



TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic Fun

MODEL NAME : RC609L

BRAND NAME : Orbic

FCC ID : 2ABGH-RC609LSM

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

RECEIPT DATE : 2022-03-31

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Change History		
Version	Date	Reason for change
1.0	2022-05-30	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 Fun	
Sample No.:	6#	
Hardware Version:	V1.0	
Software Version:	ORB609L_v1.0.2_BTM-ST	
Modulation Type:	QPSK, 16QAM, 64QAM	
Carrier Aggregation:	CA_2A-2A, CA_2A-4A, CA_2A-66A, CA_2A-5A, CA_4A-5A, CA_5A-66A, CA_4A-4A, CA_5B, CA_5A-5A, CA_66A-66A, CA_66B, CA_66C, CA_4A_13A, CA_13A_66A, CA_2A_13A	
Operation Band:	Band 2 / 4 / 5 / 12 / 13 / 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 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 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	LTE Band 2	1.08dBi
	LTE Band 4	1.67dBi
	LTE Band 5	-2.14dBi
	LTE Band 12	-2.33dBi
	LTE Band 13	-2.12dBi
	LTE Band 66	1.67dBi
Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	BTE-3402
	Serial No.:	N/A
	Capacity:	3400mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Phenix New Energy(Hui Zhou)Co.,Ltd.
	AC Adapter	
	Brand Name:	N/A
	Model No.:	TPA-23A050200UU01
	Serial No.:	N/A
	Rated Output:	5V=2000mA
	Rated Input:	100-240V~50/60Hz, 0.3A
	Manufacturer:	Shenzhen Tianyin Electronics Co.,Ltd.

Note 1: LTE Band 41 supports both power class 2 and class 3. We have evaluated two power classes respectively by performing full test, for Conducted Output Power and E.I.R.P. we recorded the test result of two power classes separately, for other test items we only recorded the worst test result (Class 2) in this report.

Note 2: 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	64QAM	QPSK	16QAM	64QAM	
20	0.236	0.190	0.187	18M0G7D	18M0W7D	18M0W7D	
15	0.232	0.181	0.185	13M5G7D	13M5W7D	13M5W7D	
10	0.233	0.193	0.177	9M00G7D	8M96W7D	8M99W7D	
5	0.232	0.192	0.188	4M51G7D	4M51W7D	4M51W7D	
3	0.233	0.187	0.187	2M71G7D	2M71W7D	2M71W7D	
1.4	0.231	0.182	0.187	1M10G7D	1M10W7D	1M10W7D	
LTE Band 4		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.329	0.283	0.281	18M0G7D	18M0W7D	18M0W7D	
15	0.325	0.270	0.279	13M5G7D	13M5W7D	13M5W7D	
10	0.321	0.272	0.282	8M98G7D	8M97W7D	8M99W7D	
5	0.320	0.272	0.279	4M51G7D	4M50W7D	4M51W7D	
3	0.326	0.279	0.265	2M70G7D	2M71W7D	2M71W7D	
1.4	0.319	0.279	0.266	1M10G7D	1M10W7D	1M10W7D	
LTE Band 5		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.077	0.068	0.068	9M01G7D	8M98W7D	8M99W7D	
5	0.076	0.069	0.067	4M51G7D	4M51W7D	4M52W7D	
3	0.076	0.068	0.067	2M70G7D	2M71W7D	2M70W7D	
1.4	0.077	0.069	0.066	1M10G7D	1M10W7D	1M10W7D	
LTE Band 12		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.079	0.063	0.064	8M99G7D	8M97W7D	8M99W7D	
5	0.077	0.063	0.063	4M51G7D	4M51W7D	4M51W7D	
3	0.078	0.066	0.062	2M70G7D	2M70W7D	2M71W7D	
1.4	0.077	0.065	0.061	1M107D	1M10W7D	1M10W7D	
LTE Band 13		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.064	0.050	0.054	8M97G7D	8M94W7D	8M96W7D	
5	0.063	0.052	0.053	4M51G7D	4M50W7D	4M51W7D	



LTE Band 66	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM
20	0.340	0.269	0.276	18M0G7D	18M0W7D	17M9W7D
15	0.330	0.264	0.271	13M5G7D	13M5W7D	13M5W7D
10	0.321	0.279	0.264	8M98G7D	8M96W7D	8M98W7D
5	0.318	0.280	0.267	4M51G7D	4M50W7D	4M51W7D
3	0.316	0.267	0.265	2M70G7D	2M70W7D	2M71W7D
1.4	0.317	0.274	0.259	1M10G7D	1M10W7D	1M10W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Apr. 26, 2022	Chen Hao Li Huaijie	PASS	No deviation
2.1049	Occupied Bandwidth	Apr. 19&24&26, 2022	Li Huaijie	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Apr. 26, 2022	Li Huaijie	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Apr. 19, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h)	Conducted Spurious Emissions	Apr. 24&25&26, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2)	Band Edge	Apr. 18&19&26, 2022	Li Huaijie	PASS	No deviation



27.53(g) 27.53(h)					
2.1053 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h)	Radiated Spurious Emissions	Apr. 14&15&19, 2022	Li Hanbing	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 27 F&H&L 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, 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.

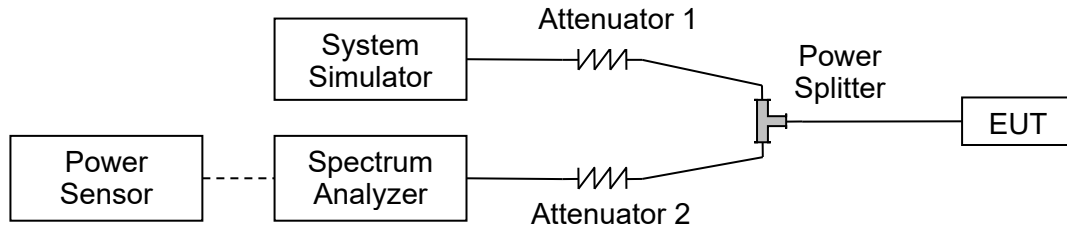
According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

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

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

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.

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.

$E.I.R.P. (dBm) = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

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



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	22.61	22.64	22.58
20	QPSK	1	49	22.59	22.53	22.46
20	QPSK	1	99	22.53	22.49	22.47
20	QPSK	50	0	21.44	21.53	21.46
20	QPSK	50	24	21.45	21.50	21.50
20	QPSK	50	50	21.50	21.46	21.52
20	QPSK	100	0	21.43	21.52	21.48
20	16QAM	1	0	21.49	21.49	21.51
20	16QAM	1	49	21.33	21.63	21.59
20	16QAM	1	99	21.46	21.31	21.71
20	16QAM	50	0	21.39	21.36	21.34
20	16QAM	50	24	21.35	21.40	21.41
20	16QAM	50	50	21.43	21.40	21.47
20	16QAM	100	0	21.46	21.47	21.34
20	64QAM	1	0	21.41	21.60	21.34
20	64QAM	1	49	21.36	21.54	21.45
20	64QAM	1	99	21.31	21.64	21.64
20	64QAM	50	0	21.41	21.33	21.38
20	64QAM	50	24	21.44	21.38	21.43
20	64QAM	50	50	21.43	21.44	21.38
20	64QAM	100	0	21.31	21.28	21.29



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	22.42	22.45	22.36
15	QPSK	1	37	22.21	22.57	22.45
15	QPSK	1	74	22.58	22.50	22.58
15	QPSK	36	0	21.18	21.27	21.26
15	QPSK	36	20	21.17	21.36	21.33
15	QPSK	36	39	21.29	21.30	21.27
15	QPSK	75	0	21.21	21.27	21.23
15	16QAM	1	0	21.30	21.38	21.32
15	16QAM	1	37	21.43	21.46	21.32
15	16QAM	1	74	21.38	21.50	21.50
15	16QAM	36	0	21.17	21.22	21.25
15	16QAM	36	20	21.26	21.19	21.32
15	16QAM	36	39	21.31	21.40	21.37
15	16QAM	75	0	21.18	21.20	21.29
15	64QAM	1	0	21.38	21.14	21.20
15	64QAM	1	37	21.37	21.18	21.60
15	64QAM	1	74	21.26	21.30	21.45
15	64QAM	36	0	21.11	21.28	21.16
15	64QAM	36	20	21.31	21.33	21.23
15	64QAM	36	39	21.19	21.24	21.33
15	64QAM	75	0	21.18	21.25	21.24



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	22.39	22.38	22.48
10	QPSK	1	25	22.50	22.60	22.48
10	QPSK	1	49	22.39	22.47	22.39
10	QPSK	25	0	21.29	21.30	21.26
10	QPSK	25	12	21.25	21.37	21.30
10	QPSK	25	25	21.16	21.29	21.25
10	QPSK	50	0	21.22	21.31	21.29
10	16QAM	1	0	21.70	21.63	21.62
10	16QAM	1	25	21.39	21.35	21.42
10	16QAM	1	49	21.34	21.42	21.21
10	16QAM	25	0	21.24	21.23	21.20
10	16QAM	25	12	21.40	21.20	21.20
10	16QAM	25	25	21.20	21.40	21.50
10	16QAM	50	0	21.77	21.70	21.74
10	64QAM	1	0	21.28	21.33	21.33
10	64QAM	1	25	21.31	21.36	21.40
10	64QAM	1	49	20.98	21.11	21.08
10	64QAM	25	0	21.28	21.32	21.33
10	64QAM	25	12	21.31	21.29	21.30
10	64QAM	25	25	21.24	21.02	21.24
10	64QAM	50	0	21.25	21.25	21.22



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	22.53	22.58	22.52
5	QPSK	1	12	22.52	22.47	22.50
5	QPSK	1	24	22.48	22.56	22.57
5	QPSK	12	0	21.28	21.19	21.26
5	QPSK	12	7	21.29	21.34	21.26
5	QPSK	12	13	21.28	21.27	21.30
5	QPSK	25	0	21.27	21.25	21.27
5	16QAM	1	0	21.40	21.30	21.68
5	16QAM	1	12	21.38	21.31	21.68
5	16QAM	1	24	21.41	21.28	21.67
5	16QAM	12	0	21.50	21.64	21.50
5	16QAM	12	7	21.40	21.40	21.20
5	16QAM	12	13	21.20	21.53	21.30
5	16QAM	25	0	21.30	21.76	21.74
5	64QAM	1	0	21.50	21.22	21.27
5	64QAM	1	12	21.66	21.32	21.43
5	64QAM	1	24	21.67	21.31	21.33
5	64QAM	12	0	21.32	21.25	21.24
5	64QAM	12	7	21.38	21.22	21.22
5	64QAM	12	13	21.35	21.31	21.29
5	64QAM	25	0	21.42	21.22	21.29



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	22.47	22.54	22.46
3	QPSK	1	8	22.57	22.60	22.43
3	QPSK	1	14	22.58	22.45	22.45
3	QPSK	8	0	21.16	21.11	21.13
3	QPSK	8	4	21.22	21.16	21.17
3	QPSK	8	7	21.22	21.16	21.12
3	QPSK	15	0	21.14	21.22	21.15
3	16QAM	1	0	21.30	21.21	21.15
3	16QAM	1	8	21.34	21.28	21.24
3	16QAM	1	14	21.27	21.24	21.12
3	16QAM	8	0	21.50	21.63	21.55
3	16QAM	8	4	21.57	21.54	21.60
3	16QAM	8	7	21.47	21.52	21.55
3	16QAM	15	0	21.50	21.54	21.49
3	64QAM	1	0	21.23	21.16	21.19
3	64QAM	1	8	21.65	21.64	21.24
3	64QAM	1	14	21.26	21.62	21.26
3	64QAM	8	0	21.18	21.20	21.04
3	64QAM	8	4	21.28	21.18	21.18
3	64QAM	8	7	21.38	21.27	21.13
3	64QAM	15	0	21.23	21.23	21.21



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	22.53	22.56	22.51
1.4	QPSK	1	3	22.43	22.41	22.40
1.4	QPSK	1	5	22.40	22.38	22.36
1.4	QPSK	3	0	22.40	22.40	22.36
1.4	QPSK	3	1	22.44	22.41	22.39
1.4	QPSK	3	3	22.46	22.50	22.39
1.4	QPSK	6	0	21.32	21.30	21.29
1.4	16QAM	1	0	21.35	21.35	21.29
1.4	16QAM	1	3	21.31	21.51	21.49
1.4	16QAM	1	5	21.19	21.39	21.07
1.4	16QAM	3	0	21.21	21.26	21.23
1.4	16QAM	3	1	21.39	21.21	21.26
1.4	16QAM	3	3	21.41	21.38	21.12
1.4	16QAM	6	0	21.42	21.35	21.30
1.4	64QAM	1	0	21.30	21.22	21.25
1.4	64QAM	1	3	21.32	21.53	21.41
1.4	64QAM	1	5	21.30	21.65	21.24
1.4	64QAM	3	0	21.33	21.39	21.40
1.4	64QAM	3	1	21.42	21.39	21.60
1.4	64QAM	3	3	21.34	21.48	21.25
1.4	64QAM	6	0	21.39	21.42	21.31



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	23.42	23.50	23.49
20	QPSK	1	49	23.28	23.36	23.35
20	QPSK	1	99	23.20	23.33	23.45
20	QPSK	50	0	22.49	22.62	22.59
20	QPSK	50	24	22.49	22.57	22.57
20	QPSK	50	50	22.38	22.49	22.50
20	QPSK	100	0	22.48	22.52	22.59
20	16QAM	1	0	22.35	22.65	22.52
20	16QAM	1	49	22.50	22.27	22.41
20	16QAM	1	99	22.29	22.51	22.35
20	16QAM	50	0	22.48	22.41	22.55
20	16QAM	50	24	22.74	22.85	22.74
20	16QAM	50	50	22.70	22.71	22.71
20	16QAM	100	0	22.72	22.80	22.81
20	64QAM	1	0	22.46	22.57	22.79
20	64QAM	1	49	22.50	22.43	22.31
20	64QAM	1	99	22.77	22.34	22.81
20	64QAM	50	0	22.47	22.56	22.51
20	64QAM	50	24	22.49	22.60	22.54
20	64QAM	50	50	22.53	22.48	22.50
20	64QAM	100	0	22.56	22.54	22.63



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	23.29	23.33	23.43
15	QPSK	1	37	23.33	23.42	23.34
15	QPSK	1	74	23.20	23.42	23.45
15	QPSK	36	0	22.43	22.50	22.53
15	QPSK	36	20	22.47	22.60	22.56
15	QPSK	36	39	22.52	22.51	22.60
15	QPSK	75	0	22.47	22.49	22.50
15	16QAM	1	0	22.41	22.63	22.35
15	16QAM	1	37	22.49	22.49	22.33
15	16QAM	1	74	22.35	22.65	22.44
15	16QAM	36	0	22.36	22.38	22.57
15	16QAM	36	20	22.31	22.38	22.44
15	16QAM	36	39	22.27	22.36	22.42
15	16QAM	75	0	22.38	22.39	22.48
15	64QAM	1	0	22.33	22.64	22.69
15	64QAM	1	37	22.75	22.51	22.57
15	64QAM	1	74	22.79	22.50	22.54
15	64QAM	36	0	22.44	22.51	22.55
15	64QAM	36	20	22.50	22.52	22.54
15	64QAM	36	39	22.53	22.49	22.51
15	64QAM	75	0	22.46	22.57	22.50



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	23.21	23.40	23.23
10	QPSK	1	25	23.19	23.32	23.33
10	QPSK	1	49	23.27	23.10	23.33
10	QPSK	25	0	22.26	22.48	22.50
10	QPSK	25	12	22.38	22.44	22.48
10	QPSK	25	25	22.27	22.38	22.45
10	QPSK	50	0	22.33	22.43	22.35
10	16QAM	1	0	22.32	22.47	22.23
10	16QAM	1	25	22.59	22.33	22.65
10	16QAM	1	49	22.66	22.56	22.55
10	16QAM	25	0	22.32	22.31	22.30
10	16QAM	25	12	22.24	22.34	22.31
10	16QAM	25	25	22.58	22.49	22.58
10	16QAM	50	0	22.52	22.56	22.68
10	64QAM	1	0	22.38	22.46	22.36
10	64QAM	1	25	22.45	22.74	22.83
10	64QAM	1	49	22.43	22.47	22.42
10	64QAM	25	0	22.27	22.41	22.40
10	64QAM	25	12	22.36	22.47	22.51
10	64QAM	25	25	22.24	22.36	22.38
10	64QAM	50	0	22.30	22.37	22.36



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	23.11	23.33	23.38
5	QPSK	1	12	23.17	23.32	23.29
5	QPSK	1	24	23.12	23.24	23.23
5	QPSK	12	0	22.34	22.34	22.38
5	QPSK	12	7	22.34	22.45	22.42
5	QPSK	12	13	22.29	22.46	22.38
5	QPSK	25	0	22.32	22.36	22.42
5	16QAM	1	0	22.22	22.63	22.31
5	16QAM	1	12	22.33	22.68	22.27
5	16QAM	1	24	22.27	22.62	22.22
5	16QAM	12	0	22.26	22.20	22.23
5	16QAM	12	7	22.29	22.33	22.31
5	16QAM	12	13	22.56	22.63	22.67
5	16QAM	25	0	22.57	22.68	22.61
5	64QAM	1	0	22.34	22.78	22.76
5	64QAM	1	12	22.72	22.48	22.75
5	64QAM	1	24	22.68	22.38	22.45
5	64QAM	12	0	22.35	22.42	22.44
5	64QAM	12	7	22.34	22.43	22.49
5	64QAM	12	13	22.35	22.41	22.40
5	64QAM	25	0	22.30	22.44	22.35



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	23.23	23.24	23.36
3	QPSK	1	8	23.32	23.46	23.40
3	QPSK	1	14	23.12	23.31	23.31
3	QPSK	8	0	22.32	22.38	22.39
3	QPSK	8	4	22.38	22.46	22.48
3	QPSK	8	7	22.34	22.44	22.44
3	QPSK	15	0	22.34	22.40	22.34
3	16QAM	1	0	22.42	22.51	22.55
3	16QAM	1	8	22.64	22.64	22.38
3	16QAM	1	14	22.55	22.33	22.41
3	16QAM	8	0	22.34	22.35	22.44
3	16QAM	8	4	22.44	22.44	22.45
3	16QAM	8	7	22.66	22.74	22.78
3	16QAM	15	0	22.66	22.64	22.71
3	64QAM	1	0	22.33	22.42	22.40
3	64QAM	1	8	22.52	22.40	22.56
3	64QAM	1	14	22.33	22.40	22.23
3	64QAM	8	0	22.31	22.35	22.29
3	64QAM	8	4	22.43	22.41	22.45
3	64QAM	8	7	22.37	22.44	22.56
3	64QAM	15	0	22.33	22.41	22.32



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				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.98	23.19	23.20
1.4	QPSK	1	3	23.32	23.32	23.36
1.4	QPSK	1	5	23.18	23.27	23.29
1.4	QPSK	3	0	23.26	23.23	23.22
1.4	QPSK	3	1	23.22	23.32	23.37
1.4	QPSK	3	3	23.21	23.28	23.27
1.4	QPSK	6	0	22.37	22.39	22.35
1.4	16QAM	1	0	22.31	22.78	22.44
1.4	16QAM	1	3	22.44	22.52	22.56
1.4	16QAM	1	5	22.50	22.66	22.46
1.4	16QAM	3	0	22.53	22.57	22.48
1.4	16QAM	3	1	22.54	22.57	22.59
1.4	16QAM	3	3	22.53	22.65	22.54
1.4	16QAM	6	0	22.44	22.45	22.36
1.4	64QAM	1	0	22.22	22.16	22.30
1.4	64QAM	1	3	22.48	22.46	22.58
1.4	64QAM	1	5	22.39	22.35	22.19
1.4	64QAM	3	0	22.30	22.28	22.47
1.4	64QAM	3	1	22.21	22.36	22.33
1.4	64QAM	3	3	22.27	22.44	22.32
1.4	64QAM	6	0	22.26	22.27	22.34



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	23.16	23.17	23.09
10	QPSK	1	25	23.02	23.05	22.85
10	QPSK	1	49	22.94	23.06	22.74
10	QPSK	25	0	22.47	22.49	22.30
10	QPSK	25	12	22.23	22.25	22.30
10	QPSK	25	25	22.23	22.34	22.39
10	QPSK	50	0	22.29	22.17	22.31
10	16QAM	1	0	22.33	22.52	22.23
10	16QAM	1	25	22.56	22.59	22.27
10	16QAM	1	49	22.39	22.45	22.52
10	16QAM	25	0	22.48	22.49	22.31
10	16QAM	25	12	22.42	22.50	22.28
10	16QAM	25	25	22.45	22.38	22.41
10	16QAM	50	0	22.46	22.37	22.27
10	64QAM	1	0	22.42	22.52	22.40
10	64QAM	1	25	22.39	22.59	22.39
10	64QAM	1	49	22.28	22.50	22.41
10	64QAM	25	0	22.39	22.50	22.17
10	64QAM	25	12	22.38	22.55	22.26
10	64QAM	25	25	22.50	22.39	22.09
10	64QAM	50	0	22.46	22.42	22.28



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	23.11	23.07	23.05
5	QPSK	1	12	23.01	23.12	22.96
5	QPSK	1	24	23.01	22.96	22.96
5	QPSK	12	0	22.38	22.43	22.29
5	QPSK	12	7	22.45	22.46	22.38
5	QPSK	12	13	22.50	22.34	22.29
5	QPSK	25	0	22.41	22.37	22.29
5	16QAM	1	0	22.70	22.63	22.39
5	16QAM	1	12	22.40	22.62	22.38
5	16QAM	1	24	22.27	22.62	22.45
5	16QAM	12	0	22.36	22.45	22.44
5	16QAM	12	7	22.43	22.46	22.28
5	16QAM	12	13	22.43	22.34	22.39
5	16QAM	25	0	22.44	22.49	22.44
5	64QAM	1	0	22.51	22.39	22.50
5	64QAM	1	12	22.39	22.33	22.47
5	64QAM	1	24	22.53	22.37	22.31
5	64QAM	12	0	22.25	22.39	22.19
5	64QAM	12	7	22.29	22.45	22.23
5	64QAM	12	13	22.47	22.42	21.99
5	64QAM	25	0	22.35	22.42	22.03



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	22.80	23.11	22.96
3	QPSK	1	8	23.06	23.07	22.98
3	QPSK	1	14	23.07	23.05	22.79
3	QPSK	8	0	22.31	22.44	22.42
3	QPSK	8	4	22.45	22.51	22.48
3	QPSK	8	7	22.40	22.42	22.29
3	QPSK	15	0	22.38	22.44	22.43
3	16QAM	1	0	22.40	22.51	22.58
3	16QAM	1	8	22.33	22.59	22.43
3	16QAM	1	14	22.38	22.64	22.39
3	16QAM	8	0	22.34	22.43	22.17
3	16QAM	8	4	22.50	22.61	22.18
3	16QAM	8	7	22.42	22.48	22.22
3	16QAM	15	0	22.36	22.38	21.93
3	64QAM	1	0	22.31	22.19	22.40
3	64QAM	1	8	22.19	22.43	22.19
3	64QAM	1	14	22.21	22.39	22.20
3	64QAM	8	0	22.31	22.41	22.39
3	64QAM	8	4	22.53	22.37	22.31
3	64QAM	8	7	22.48	22.40	22.37
3	64QAM	15	0	22.37	22.47	22.27



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	23.01	23.08	23.12
1.4	QPSK	1	3	23.14	23.07	23.14
1.4	QPSK	1	5	23.03	22.97	22.98
1.4	QPSK	3	0	23.04	23.10	23.06
1.4	QPSK	3	1	23.10	22.97	23.07
1.4	QPSK	3	3	23.11	23.03	23.03
1.4	QPSK	6	0	22.36	22.35	22.34
1.4	16QAM	1	0	22.49	22.30	22.47
1.4	16QAM	1	3	22.29	22.53	22.42
1.4	16QAM	1	5	22.68	22.36	22.42
1.4	16QAM	3	0	22.21	22.19	22.33
1.4	16QAM	3	1	22.24	22.51	22.37
1.4	16QAM	3	3	22.32	22.43	22.31
1.4	16QAM	6	0	22.51	22.38	22.42
1.4	64QAM	1	0	22.04	22.21	22.23
1.4	64QAM	1	3	22.35	22.36	22.31
1.4	64QAM	1	5	22.30	22.29	22.17
1.4	64QAM	3	0	21.96	22.23	22.24
1.4	64QAM	3	1	22.24	22.18	22.19
1.4	64QAM	3	3	22.14	22.31	22.35
1.4	64QAM	6	0	22.35	22.47	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	23.29	23.45	23.34
10	QPSK	1	25	23.15	23.28	23.31
10	QPSK	1	49	23.25	23.26	23.25
10	QPSK	25	0	22.54	22.64	22.55
10	QPSK	25	12	22.51	22.45	22.24
10	QPSK	25	25	22.56	22.62	22.55
10	QPSK	50	0	22.57	22.59	22.50
10	16QAM	1	0	22.50	22.05	22.18
10	16QAM	1	25	22.25	22.20	22.34
10	16QAM	1	49	22.34	22.39	22.28
10	16QAM	25	0	22.23	22.25	22.19
10	16QAM	25	12	22.27	22.31	22.20
10	16QAM	25	25	22.32	22.33	22.27
10	16QAM	50	0	22.22	22.30	22.35
10	64QAM	1	0	22.07	22.19	22.53
10	64QAM	1	25	22.51	22.57	22.16
10	64QAM	1	49	22.53	22.21	22.14
10	64QAM	25	0	22.04	21.98	21.95
10	64QAM	25	12	22.09	22.12	22.04
10	64QAM	25	25	22.14	22.11	22.11
10	64QAM	50	0	22.06	21.99	22.10



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	23.04	23.37	23.15
5	QPSK	1	12	23.20	23.36	23.20
5	QPSK	1	24	23.16	23.35	23.21
5	QPSK	12	0	22.27	22.34	22.33
5	QPSK	12	7	22.38	22.40	22.37
5	QPSK	12	13	22.33	22.36	22.33
5	QPSK	25	0	22.29	22.41	22.37
5	16QAM	1	0	22.30	22.32	22.34
5	16QAM	1	12	22.47	22.42	22.43
5	16QAM	1	24	22.43	22.41	22.37
5	16QAM	12	0	22.17	22.14	22.17
5	16QAM	12	7	22.31	22.36	22.20
5	16QAM	12	13	22.26	22.23	22.28
5	16QAM	25	0	22.27	22.23	22.25
5	64QAM	1	0	22.05	22.06	22.11
5	64QAM	1	12	22.50	22.20	22.13
5	64QAM	1	24	22.48	22.17	22.22
5	64QAM	12	0	22.02	22.04	21.99
5	64QAM	12	7	22.12	22.00	22.06
5	64QAM	12	13	21.99	22.09	22.14
5	64QAM	25	0	22.14	22.10	22.07



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	23.12	23.39	23.06
3	QPSK	1	8	23.30	23.29	23.19
3	QPSK	1	14	23.24	23.35	23.30
3	QPSK	8	0	22.35	22.33	22.33
3	QPSK	8	4	22.38	22.41	22.42
3	QPSK	8	7	22.33	22.41	22.35
3	QPSK	15	0	22.32	22.40	22.26
3	16QAM	1	0	22.33	22.69	22.28
3	16QAM	1	8	22.53	22.51	22.46
3	16QAM	1	14	22.36	22.41	22.27
3	16QAM	8	0	22.33	22.22	22.25
3	16QAM	8	4	22.38	22.35	22.46
3	16QAM	8	7	22.22	22.25	22.31
3	16QAM	15	0	22.20	22.13	22.12
3	64QAM	1	0	22.06	22.40	22.39
3	64QAM	1	8	22.35	22.25	22.26
3	64QAM	1	14	22.28	22.13	22.24
3	64QAM	8	0	21.95	22.03	21.94
3	64QAM	8	4	22.04	22.08	22.07
3	64QAM	8	7	22.03	21.95	22.10
3	64QAM	15	0	22.02	22.04	21.96



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	23.15	23.32	23.12
1.4	QPSK	1	3	23.26	23.25	23.27
1.4	QPSK	1	5	23.15	23.20	23.16
1.4	QPSK	3	0	23.10	23.23	23.21
1.4	QPSK	3	1	23.31	23.31	22.98
1.4	QPSK	3	3	23.26	23.28	23.24
1.4	QPSK	6	0	22.32	22.29	22.27
1.4	16QAM	1	0	22.36	22.30	22.15
1.4	16QAM	1	3	22.17	22.60	22.27
1.4	16QAM	1	5	22.29	22.30	22.29
1.4	16QAM	3	0	22.13	22.16	22.17
1.4	16QAM	3	1	22.29	22.37	22.21
1.4	16QAM	3	3	22.12	22.26	22.26
1.4	16QAM	6	0	22.05	22.25	22.15
1.4	64QAM	1	0	21.90	22.05	21.89
1.4	64QAM	1	3	22.02	21.95	22.00
1.4	64QAM	1	5	22.18	22.21	22.17
1.4	64QAM	3	0	22.08	22.09	21.92
1.4	64QAM	3	1	22.06	22.30	22.15
1.4	64QAM	3	3	22.08	21.92	22.08
1.4	64QAM	6	0	22.04	22.05	21.92



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	/	22.35	/
10	QPSK	1	25	/	22.18	/
10	QPSK	1	49	/	22.16	/
10	QPSK	25	0	/	21.54	/
10	QPSK	25	12	/	21.35	/
10	QPSK	25	25	/	21.52	/
10	QPSK	50	0	/	21.49	/
10	16QAM	1	0	/	20.95	/
10	16QAM	1	25	/	21.10	/
10	16QAM	1	49	/	21.29	/
10	16QAM	25	0	/	21.15	/
10	16QAM	25	12	/	21.21	/
10	16QAM	25	25	/	21.23	/
10	16QAM	50	0	/	21.20	/
10	64QAM	1	0	/	21.23	/
10	64QAM	1	25	/	21.61	/
10	64QAM	1	49	/	21.25	/
10	64QAM	25	0	/	21.02	/
10	64QAM	25	12	/	21.16	/
10	64QAM	25	25	/	21.15	/
10	64QAM	50	0	/	21.03	/



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	21.94	22.27	22.05
5	QPSK	1	12	22.10	22.26	22.10
5	QPSK	1	24	22.06	22.25	22.11
5	QPSK	12	0	21.17	21.24	21.23
5	QPSK	12	7	21.28	21.30	21.27
5	QPSK	12	13	21.23	21.26	21.23
5	QPSK	25	0	21.19	21.31	21.27
5	16QAM	1	0	21.20	21.22	21.24
5	16QAM	1	12	21.37	21.32	21.33
5	16QAM	1	24	21.33	21.31	21.27
5	16QAM	12	0	21.07	21.04	21.07
5	16QAM	12	7	21.35	21.40	21.24
5	16QAM	12	13	21.30	21.27	21.32
5	16QAM	25	0	21.31	21.27	21.29
5	64QAM	1	0	21.09	21.10	21.15
5	64QAM	1	12	21.54	21.24	21.17
5	64QAM	1	24	21.52	21.21	21.26
5	64QAM	12	0	21.06	21.08	21.03
5	64QAM	12	7	21.16	21.04	21.10
5	64QAM	12	13	21.03	21.13	21.18
5	64QAM	25	0	21.18	21.14	21.11



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	23.59	23.65	23.63
20	QPSK	1	49	23.44	23.43	23.39
20	QPSK	1	99	23.37	23.36	23.39
20	QPSK	50	0	22.51	22.58	22.54
20	QPSK	50	24	22.32	22.34	22.47
20	QPSK	50	50	22.36	22.44	22.32
20	QPSK	100	0	22.34	22.34	22.26
20	16QAM	1	0	22.39	22.15	22.43
20	16QAM	1	49	22.44	22.18	22.24
20	16QAM	1	99	22.44	22.62	22.41
20	16QAM	50	0	22.56	22.53	22.50
20	16QAM	50	24	22.45	22.45	22.46
20	16QAM	50	50	22.42	22.34	22.30
20	16QAM	100	0	22.38	22.41	22.47
20	64QAM	1	0	22.54	22.31	22.64
20	64QAM	1	49	22.31	22.64	22.63
20	64QAM	1	99	22.54	22.66	22.74
20	64QAM	50	0	22.50	22.40	22.53
20	64QAM	50	24	22.44	22.38	22.50
20	64QAM	50	50	22.46	22.34	22.40
20	64QAM	100	0	22.45	22.45	22.43



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	23.38	23.42	23.40
15	QPSK	1	37	23.52	23.38	23.36
15	QPSK	1	74	23.36	23.32	23.30
15	QPSK	36	0	22.33	22.30	22.34
15	QPSK	36	20	22.33	22.25	22.35
15	QPSK	36	39	22.19	22.24	22.21
15	QPSK	75	0	22.28	22.32	22.25
15	16QAM	1	0	22.27	22.14	22.44
15	16QAM	1	37	22.14	22.44	22.37
15	16QAM	1	74	22.24	22.14	22.14
15	16QAM	36	0	22.45	22.45	22.36
15	16QAM	36	20	22.48	22.47	22.53
15	16QAM	36	39	22.40	22.55	22.49
15	16QAM	75	0	22.50	22.48	22.44
15	64QAM	1	0	22.64	22.54	22.64
15	64QAM	1	37	22.66	22.44	22.54
15	64QAM	1	74	22.31	22.57	22.64
15	64QAM	36	0	22.43	22.42	22.55
15	64QAM	36	20	22.53	22.49	22.50
15	64QAM	36	39	22.42	22.36	22.40
15	64QAM	75	0	22.44	22.46	22.43



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	23.36	23.36	23.37
10	QPSK	1	25	23.26	23.24	23.32
10	QPSK	1	49	23.40	23.28	23.18
10	QPSK	25	0	22.59	22.52	22.59
10	QPSK	25	12	22.56	22.75	22.53
10	QPSK	25	25	22.57	22.53	22.45
10	QPSK	50	0	22.65	22.50	22.69
10	16QAM	1	0	22.57	22.57	22.77
10	16QAM	1	25	22.57	22.66	22.78
10	16QAM	1	49	22.40	22.60	22.48
10	16QAM	25	0	22.41	22.58	22.46
10	16QAM	25	12	22.40	22.60	22.51
10	16QAM	25	25	22.31	22.36	22.36
10	16QAM	50	0	22.47	22.51	22.52
10	64QAM	1	0	22.47	22.47	22.14
10	64QAM	1	25	22.14	22.27	22.17
10	64QAM	1	49	22.14	22.14	22.14
10	64QAM	25	0	22.47	22.45	22.47
10	64QAM	25	12	22.46	22.50	22.54
10	64QAM	25	25	22.46	22.39	22.41
10	64QAM	50	0	22.36	22.46	22.47



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	23.25	23.28	23.33
5	QPSK	1	12	23.28	23.28	23.27
5	QPSK	1	24	23.36	23.26	23.32
5	QPSK	12	0	22.28	22.30	22.26
5	QPSK	12	7	22.30	22.38	22.31
5	QPSK	12	13	22.21	22.27	22.28
5	QPSK	25	0	22.31	22.32	22.31
5	16QAM	1	0	22.80	22.49	22.50
5	16QAM	1	12	22.43	22.72	22.67
5	16QAM	1	24	22.55	22.44	22.79
5	16QAM	12	0	22.44	22.55	22.51
5	16QAM	12	7	22.61	22.53	22.65
5	16QAM	12	13	22.52	22.46	22.53
5	16QAM	25	0	22.53	22.55	22.47
5	64QAM	1	0	22.14	22.54	22.34
5	64QAM	1	12	22.44	22.44	22.44
5	64QAM	1	24	22.27	22.31	22.27
5	64QAM	12	0	22.51	22.26	22.47
5	64QAM	12	7	22.59	22.18	22.49
5	64QAM	12	13	22.42	22.54	22.49
5	64QAM	25	0	22.49	22.57	22.44



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				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	23.32	23.23	23.22
3	QPSK	1	8	23.19	23.20	23.28
3	QPSK	1	14	23.10	22.91	23.21
3	QPSK	8	0	22.54	22.51	22.55
3	QPSK	8	4	22.54	22.46	22.56
3	QPSK	8	7	22.40	22.45	22.42
3	QPSK	15	0	22.49	22.53	22.46
3	16QAM	1	0	22.18	22.59	22.35
3	16QAM	1	8	22.51	22.45	22.44
3	16QAM	1	14	22.55	22.44	22.14
3	16QAM	8	0	22.36	22.36	22.27
3	16QAM	8	4	22.39	22.38	22.44
3	16QAM	8	7	22.31	22.46	22.40
3	16QAM	15	0	22.41	22.39	22.35
3	64QAM	1	0	22.55	22.45	22.55
3	64QAM	1	8	22.57	22.35	22.45
3	64QAM	1	14	22.22	22.48	22.55
3	64QAM	8	0	22.34	22.33	22.46
3	64QAM	8	4	22.44	22.40	22.41
3	64QAM	8	7	22.33	22.27	22.31
3	64QAM	15	0	22.35	22.37	22.34



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	23.26	23.17	23.18
1.4	QPSK	1	3	23.32	23.34	23.34
1.4	QPSK	1	5	23.24	23.12	23.28
1.4	QPSK	3	0	23.23	23.16	23.23
1.4	QPSK	3	1	23.20	23.26	23.17
1.4	QPSK	3	3	23.21	23.17	23.09
1.4	QPSK	6	0	22.57	22.42	22.61
1.4	16QAM	1	0	22.49	22.49	22.69
1.4	16QAM	1	3	22.49	22.58	22.70
1.4	16QAM	1	5	22.32	22.52	22.40
1.4	16QAM	3	0	22.03	22.00	22.26
1.4	16QAM	3	1	22.12	22.02	22.14
1.4	16QAM	3	3	22.13	22.14	22.08
1.4	16QAM	6	0	22.02	21.93	21.94
1.4	64QAM	1	0	22.36	22.21	22.37
1.4	64QAM	1	3	22.09	22.18	22.18
1.4	64QAM	1	5	22.06	22.06	22.17
1.4	64QAM	3	0	22.39	22.37	22.39
1.4	64QAM	3	1	22.38	22.42	22.46
1.4	64QAM	3	3	22.38	22.31	22.33
1.4	64QAM	6	0	22.28	22.38	22.39



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	23.69	0.234	23.72	0.236	23.66	0.232
20	QPSK	1	49	23.67	0.233	23.61	0.230	23.54	0.226
20	QPSK	1	99	23.61	0.230	23.57	0.228	23.55	0.226
20	QPSK	50	0	22.52	0.179	22.61	0.182	22.54	0.179
20	QPSK	50	24	22.53	0.179	22.58	0.181	22.58	0.181
20	QPSK	50	50	22.58	0.181	22.54	0.179	22.60	0.182
20	QPSK	100	0	22.51	0.178	22.60	0.182	22.56	0.180
20	16QAM	1	0	22.57	0.181	22.57	0.181	22.59	0.182
20	16QAM	1	49	22.41	0.174	22.71	0.187	22.67	0.185
20	16QAM	1	99	22.54	0.179	22.39	0.173	22.79	0.190
20	16QAM	50	0	22.47	0.177	22.44	0.175	22.42	0.175
20	16QAM	50	24	22.43	0.175	22.48	0.177	22.49	0.177
20	16QAM	50	50	22.51	0.178	22.48	0.177	22.55	0.180
20	16QAM	100	0	22.54	0.179	22.55	0.180	22.42	0.175
20	64QAM	1	0	22.49	0.177	22.68	0.185	22.42	0.175
20	64QAM	1	49	22.44	0.175	22.62	0.183	22.53	0.179
20	64QAM	1	99	22.39	0.173	22.72	0.187	22.72	0.187
20	64QAM	50	0	22.49	0.177	22.41	0.174	22.46	0.176
20	64QAM	50	24	22.52	0.179	22.46	0.176	22.51	0.178
20	64QAM	50	50	22.51	0.178	22.52	0.179	22.46	0.176
20	64QAM	100	0	22.39	0.173	22.36	0.172	22.37	0.173



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	23.50	0.224	23.53	0.225	23.44	0.221
15	QPSK	1	37	23.29	0.213	23.65	0.232	23.53	0.225
15	QPSK	1	74	23.66	0.232	23.58	0.228	23.66	0.232
15	QPSK	36	0	22.26	0.168	22.35	0.172	22.34	0.171
15	QPSK	36	20	22.25	0.168	22.44	0.175	22.41	0.174
15	QPSK	36	39	22.37	0.173	22.38	0.173	22.35	0.172
15	QPSK	75	0	22.29	0.169	22.35	0.172	22.31	0.170
15	16QAM	1	0	22.38	0.173	22.46	0.176	22.40	0.174
15	16QAM	1	37	22.51	0.178	22.54	0.179	22.40	0.174
15	16QAM	1	74	22.46	0.176	22.58	0.181	22.58	0.181
15	16QAM	36	0	22.25	0.168	22.30	0.170	22.33	0.171
15	16QAM	36	20	22.34	0.171	22.27	0.169	22.40	0.174
15	16QAM	36	39	22.39	0.173	22.48	0.177	22.45	0.176
15	16QAM	75	0	22.26	0.168	22.28	0.169	22.37	0.173
15	64QAM	1	0	22.46	0.176	22.22	0.167	22.28	0.169
15	64QAM	1	37	22.45	0.176	22.26	0.168	22.68	0.185
15	64QAM	1	74	22.34	0.171	22.38	0.173	22.53	0.179
15	64QAM	36	0	22.19	0.166	22.36	0.172	22.24	0.167
15	64QAM	36	20	22.39	0.173	22.41	0.174	22.31	0.170
15	64QAM	36	39	22.27	0.169	22.32	0.171	22.41	0.174
15	64QAM	75	0	22.26	0.168	22.33	0.171	22.32	0.171



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	23.47	0.222	23.46	0.222	23.56	0.227
10	QPSK	1	25	23.58	0.228	23.68	0.233	23.56	0.227
10	QPSK	1	49	23.47	0.222	23.55	0.226	23.47	0.222
10	QPSK	25	0	22.37	0.173	22.38	0.173	22.34	0.171
10	QPSK	25	12	22.33	0.171	22.45	0.176	22.38	0.173
10	QPSK	25	25	22.24	0.167	22.37	0.173	22.33	0.171
10	QPSK	50	0	22.30	0.170	22.39	0.173	22.37	0.173
10	16QAM	1	0	22.78	0.190	22.71	0.187	22.70	0.186
10	16QAM	1	25	22.47	0.177	22.43	0.175	22.50	0.178
10	16QAM	1	49	22.42	0.175	22.50	0.178	22.29	0.169
10	16QAM	25	0	22.32	0.171	22.31	0.170	22.28	0.169
10	16QAM	25	12	22.48	0.177	22.28	0.169	22.28	0.169
10	16QAM	25	25	22.28	0.169	22.48	0.177	22.58	0.181
10	16QAM	50	0	22.85	0.193	22.78	0.190	22.82	0.191
10	64QAM	1	0	22.36	0.172	22.41	0.174	22.41	0.174
10	64QAM	1	25	22.39	0.173	22.44	0.175	22.48	0.177
10	64QAM	1	49	22.06	0.161	22.19	0.166	22.16	0.164
10	64QAM	25	0	22.36	0.172	22.40	0.174	22.41	0.174
10	64QAM	25	12	22.39	0.173	22.37	0.173	22.38	0.173
10	64QAM	25	25	22.32	0.171	22.10	0.162	22.32	0.171
10	64QAM	50	0	22.33	0.171	22.33	0.171	22.30	0.170



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	23.61	0.230	23.66	0.232	23.60	0.229
5	QPSK	1	12	23.60	0.229	23.55	0.226	23.58	0.228
5	QPSK	1	24	23.56	0.227	23.64	0.231	23.65	0.232
5	QPSK	12	0	22.36	0.172	22.27	0.169	22.34	0.171
5	QPSK	12	7	22.37	0.173	22.42	0.175	22.34	0.171
5	QPSK	12	13	22.36	0.172	22.35	0.172	22.38	0.173
5	QPSK	25	0	22.35	0.172	22.33	0.171	22.35	0.172
5	16QAM	1	0	22.48	0.177	22.38	0.173	22.76	0.189
5	16QAM	1	12	22.46	0.176	22.39	0.173	22.76	0.189
5	16QAM	1	24	22.49	0.177	22.36	0.172	22.75	0.188
5	16QAM	12	0	22.58	0.181	22.72	0.187	22.58	0.181
5	16QAM	12	7	22.48	0.177	22.48	0.177	22.28	0.169
5	16QAM	12	13	22.28	0.169	22.61	0.182	22.38	0.173
5	16QAM	25	0	22.38	0.173	22.84	0.192	22.82	0.191
5	64QAM	1	0	22.58	0.181	22.30	0.170	22.35	0.172
5	64QAM	1	12	22.74	0.188	22.40	0.174	22.51	0.178
5	64QAM	1	24	22.75	0.188	22.39	0.173	22.41	0.174
5	64QAM	12	0	22.40	0.174	22.33	0.171	22.32	0.171
5	64QAM	12	7	22.46	0.176	22.30	0.170	22.30	0.170
5	64QAM	12	13	22.43	0.175	22.39	0.173	22.37	0.173
5	64QAM	25	0	22.50	0.178	22.30	0.170	22.37	0.173



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	23.55	0.226	23.62	0.230	23.54	0.226
3	QPSK	1	8	23.65	0.232	23.68	0.233	23.51	0.224
3	QPSK	1	14	23.66	0.232	23.53	0.225	23.53	0.225
3	QPSK	8	0	22.24	0.167	22.19	0.166	22.21	0.166
3	QPSK	8	4	22.30	0.170	22.24	0.167	22.25	0.168
3	QPSK	8	7	22.30	0.170	22.24	0.167	22.20	0.166
3	QPSK	15	0	22.22	0.167	22.30	0.170	22.23	0.167
3	16QAM	1	0	22.38	0.173	22.29	0.169	22.23	0.167
3	16QAM	1	8	22.42	0.175	22.36	0.172	22.32	0.171
3	16QAM	1	14	22.35	0.172	22.32	0.171	22.20	0.166
3	16QAM	8	0	22.58	0.181	22.71	0.187	22.63	0.183
3	16QAM	8	4	22.65	0.184	22.62	0.183	22.68	0.185
3	16QAM	8	7	22.55	0.180	22.60	0.182	22.63	0.183
3	16QAM	15	0	22.58	0.181	22.62	0.183	22.57	0.181
3	64QAM	1	0	22.31	0.170	22.24	0.167	22.27	0.169
3	64QAM	1	8	22.73	0.187	22.72	0.187	22.32	0.171
3	64QAM	1	14	22.34	0.171	22.70	0.186	22.34	0.171
3	64QAM	8	0	22.26	0.168	22.28	0.169	22.12	0.163
3	64QAM	8	4	22.36	0.172	22.26	0.168	22.26	0.168
3	64QAM	8	7	22.46	0.176	22.35	0.172	22.21	0.166
3	64QAM	15	0	22.31	0.170	22.31	0.170	22.29	0.169



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	23.61	0.230	23.64	0.231	23.59	0.229
1.4	QPSK	1	3	23.51	0.224	23.49	0.223	23.48	0.223
1.4	QPSK	1	5	23.48	0.223	23.46	0.222	23.44	0.221
1.4	QPSK	3	0	23.48	0.223	23.48	0.223	23.44	0.221
1.4	QPSK	3	1	23.52	0.225	23.49	0.223	23.47	0.222
1.4	QPSK	3	3	23.54	0.226	23.58	0.228	23.47	0.222
1.4	QPSK	6	0	22.40	0.174	22.38	0.173	22.37	0.173
1.4	16QAM	1	0	22.43	0.175	22.43	0.175	22.37	0.173
1.4	16QAM	1	3	22.39	0.173	22.59	0.182	22.57	0.181
1.4	16QAM	1	5	22.27	0.169	22.47	0.177	22.15	0.164
1.4	16QAM	3	0	22.29	0.169	22.34	0.171	22.31	0.170
1.4	16QAM	3	1	22.47	0.177	22.29	0.169	22.34	0.171
1.4	16QAM	3	3	22.49	0.177	22.46	0.176	22.20	0.166
1.4	16QAM	6	0	22.50	0.178	22.43	0.175	22.38	0.173
1.4	64QAM	1	0	22.38	0.173	22.30	0.170	22.33	0.171
1.4	64QAM	1	3	22.40	0.174	22.61	0.182	22.49	0.177
1.4	64QAM	1	5	22.38	0.173	22.73	0.187	22.32	0.171
1.4	64QAM	3	0	22.41	0.174	22.47	0.177	22.48	0.177
1.4	64QAM	3	1	22.50	0.178	22.47	0.177	22.68	0.185
1.4	64QAM	3	3	22.42	0.175	22.56	0.180	22.33	0.171
1.4	64QAM	6	0	22.47	0.177	22.50	0.178	22.39	0.173



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	25.09	0.323	25.17	0.329	25.16	0.328
20	QPSK	1	49	24.95	0.313	25.03	0.318	25.02	0.318
20	QPSK	1	99	24.87	0.307	25.00	0.316	25.12	0.325
20	QPSK	50	0	24.16	0.261	24.29	0.269	24.26	0.267
20	QPSK	50	24	24.16	0.261	24.24	0.265	24.24	0.265
20	QPSK	50	50	24.05	0.254	24.16	0.261	24.17	0.261
20	QPSK	100	0	24.15	0.260	24.19	0.262	24.26	0.267
20	16QAM	1	0	24.02	0.252	24.32	0.270	24.19	0.262
20	16QAM	1	49	24.17	0.261	23.94	0.248	24.08	0.256
20	16QAM	1	99	23.96	0.249	24.18	0.262	24.02	0.252
20	16QAM	50	0	24.15	0.260	24.08	0.256	24.22	0.264
20	16QAM	50	24	24.41	0.276	24.52	0.283	24.41	0.276
20	16QAM	50	50	24.37	0.274	24.38	0.274	24.38	0.274
20	16QAM	100	0	24.39	0.275	24.47	0.280	24.48	0.281
20	64QAM	1	0	24.13	0.259	24.24	0.265	24.46	0.279
20	64QAM	1	49	24.17	0.261	24.10	0.257	23.98	0.250
20	64QAM	1	99	24.44	0.278	24.01	0.252	24.48	0.281
20	64QAM	50	0	24.14	0.259	24.23	0.265	24.18	0.262
20	64QAM	50	24	24.16	0.261	24.27	0.267	24.21	0.264
20	64QAM	50	50	24.20	0.263	24.15	0.260	24.17	0.261
20	64QAM	100	0	24.23	0.265	24.21	0.264	24.30	0.269



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	24.96	0.313	25.00	0.316	25.10	0.324
15	QPSK	1	37	25.00	0.316	25.09	0.323	25.01	0.317
15	QPSK	1	74	24.87	0.307	25.09	0.323	25.12	0.325
15	QPSK	36	0	24.10	0.257	24.17	0.261	24.20	0.263
15	QPSK	36	20	24.14	0.259	24.27	0.267	24.23	0.265
15	QPSK	36	39	24.19	0.262	24.18	0.262	24.27	0.267
15	QPSK	75	0	24.14	0.259	24.16	0.261	24.17	0.261
15	16QAM	1	0	24.08	0.256	24.30	0.269	24.02	0.252
15	16QAM	1	37	24.16	0.261	24.16	0.261	24.00	0.251
15	16QAM	1	74	24.02	0.252	24.32	0.270	24.11	0.258
15	16QAM	36	0	24.03	0.253	24.05	0.254	24.24	0.265
15	16QAM	36	20	23.98	0.250	24.05	0.254	24.11	0.258
15	16QAM	36	39	23.94	0.248	24.03	0.253	24.09	0.256
15	16QAM	75	0	24.05	0.254	24.06	0.255	24.15	0.260
15	64QAM	1	0	24.00	0.251	24.31	0.270	24.36	0.273
15	64QAM	1	37	24.42	0.277	24.18	0.262	24.24	0.265
15	64QAM	1	74	24.46	0.279	24.17	0.261	24.21	0.264
15	64QAM	36	0	24.11	0.258	24.18	0.262	24.22	0.264
15	64QAM	36	20	24.17	0.261	24.19	0.262	24.21	0.264
15	64QAM	36	39	24.20	0.263	24.16	0.261	24.18	0.262
15	64QAM	75	0	24.13	0.259	24.24	0.265	24.17	0.261



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	24.88	0.308	25.07	0.321	24.90	0.309
10	QPSK	1	25	24.86	0.306	24.99	0.316	25.00	0.316
10	QPSK	1	49	24.94	0.312	24.77	0.300	25.00	0.316
10	QPSK	25	0	23.93	0.247	24.15	0.260	24.17	0.261
10	QPSK	25	12	24.05	0.254	24.11	0.258	24.15	0.260
10	QPSK	25	25	23.94	0.248	24.05	0.254	24.12	0.258
10	QPSK	50	0	24.00	0.251	24.10	0.257	24.02	0.252
10	16QAM	1	0	23.99	0.251	24.14	0.259	23.90	0.245
10	16QAM	1	25	24.26	0.267	24.00	0.251	24.32	0.270
10	16QAM	1	49	24.33	0.271	24.23	0.265	24.22	0.264
10	16QAM	25	0	23.99	0.251	23.98	0.250	23.97	0.249
10	16QAM	25	12	23.91	0.246	24.01	0.252	23.98	0.250
10	16QAM	25	25	24.25	0.266	24.16	0.261	24.25	0.266
10	16QAM	50	0	24.19	0.262	24.23	0.265	24.35	0.272
10	64QAM	1	0	24.05	0.254	24.13	0.259	24.03	0.253
10	64QAM	1	25	24.12	0.258	24.41	0.276	24.50	0.282
10	64QAM	1	49	24.10	0.257	24.14	0.259	24.09	0.256
10	64QAM	25	0	23.94	0.248	24.08	0.256	24.07	0.255
10	64QAM	25	12	24.03	0.253	24.14	0.259	24.18	0.262
10	64QAM	25	25	23.91	0.246	24.03	0.253	24.05	0.254
10	64QAM	50	0	23.97	0.249	24.04	0.254	24.03	0.253



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	24.78	0.301	25.00	0.316	25.05	0.320
5	QPSK	1	12	24.84	0.305	24.99	0.316	24.96	0.313
5	QPSK	1	24	24.79	0.301	24.91	0.310	24.90	0.309
5	QPSK	12	0	24.01	0.252	24.01	0.252	24.05	0.254
5	QPSK	12	7	24.01	0.252	24.12	0.258	24.09	0.256
5	QPSK	12	13	23.96	0.249	24.13	0.259	24.05	0.254
5	QPSK	25	0	23.99	0.251	24.03	0.253	24.09	0.256
5	16QAM	1	0	23.89	0.245	24.30	0.269	23.98	0.250
5	16QAM	1	12	24.00	0.251	24.35	0.272	23.94	0.248
5	16QAM	1	24	23.94	0.248	24.29	0.269	23.89	0.245
5	16QAM	12	0	23.93	0.247	23.87	0.244	23.90	0.245
5	16QAM	12	7	23.96	0.249	24.00	0.251	23.98	0.250
5	16QAM	12	13	24.23	0.265	24.30	0.269	24.34	0.272
5	16QAM	25	0	24.24	0.265	24.35	0.272	24.28	0.268
5	64QAM	1	0	24.01	0.252	24.45	0.279	24.43	0.277
5	64QAM	1	12	24.39	0.275	24.15	0.260	24.42	0.277
5	64QAM	1	24	24.35	0.272	24.05	0.254	24.12	0.258
5	64QAM	12	0	24.02	0.252	24.09	0.256	24.11	0.258
5	64QAM	12	7	24.01	0.252	24.10	0.257	24.16	0.261
5	64QAM	12	13	24.02	0.252	24.08	0.256	24.07	0.255
5	64QAM	25	0	23.97	0.249	24.11	0.258	24.02	0.252



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	24.90	0.309	24.91	0.310	25.03	0.318
3	QPSK	1	8	24.99	0.316	25.13	0.326	25.07	0.321
3	QPSK	1	14	24.79	0.301	24.98	0.315	24.98	0.315
3	QPSK	8	0	23.99	0.251	24.05	0.254	24.06	0.255
3	QPSK	8	4	24.05	0.254	24.13	0.259	24.15	0.260
3	QPSK	8	7	24.01	0.252	24.11	0.258	24.11	0.258
3	QPSK	15	0	24.01	0.252	24.07	0.255	24.01	0.252
3	16QAM	1	0	24.09	0.256	24.18	0.262	24.22	0.264
3	16QAM	1	8	24.31	0.270	24.31	0.270	24.05	0.254
3	16QAM	1	14	24.22	0.264	24.00	0.251	24.08	0.256
3	16QAM	8	0	24.01	0.252	24.02	0.252	24.11	0.258
3	16QAM	8	4	24.11	0.258	24.11	0.258	24.12	0.258
3	16QAM	8	7	24.33	0.271	24.41	0.276	24.45	0.279
3	16QAM	15	0	24.33	0.271	24.31	0.270	24.38	0.274
3	64QAM	1	0	24.00	0.251	24.09	0.256	24.07	0.255
3	64QAM	1	8	24.19	0.262	24.07	0.255	24.23	0.265
3	64QAM	1	14	24.00	0.251	24.07	0.255	23.90	0.245
3	64QAM	8	0	23.98	0.250	24.02	0.252	23.96	0.249
3	64QAM	8	4	24.10	0.257	24.08	0.256	24.12	0.258
3	64QAM	8	7	24.04	0.254	24.11	0.258	24.23	0.265
3	64QAM	15	0	24.00	0.251	24.08	0.256	23.99	0.251



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	24.65	0.292	24.86	0.306	24.87	0.307
1.4	QPSK	1	3	24.99	0.316	24.99	0.316	25.03	0.318
1.4	QPSK	1	5	24.85	0.305	24.94	0.312	24.96	0.313
1.4	QPSK	3	0	24.93	0.311	24.90	0.309	24.89	0.308
1.4	QPSK	3	1	24.89	0.308	24.99	0.316	25.04	0.319
1.4	QPSK	3	3	24.88	0.308	24.95	0.313	24.94	0.312
1.4	QPSK	6	0	24.04	0.254	24.06	0.255	24.02	0.252
1.4	16QAM	1	0	23.98	0.250	24.45	0.279	24.11	0.258
1.4	16QAM	1	3	24.11	0.258	24.19	0.262	24.23	0.265
1.4	16QAM	1	5	24.17	0.261	24.33	0.271	24.13	0.259
1.4	16QAM	3	0	24.20	0.263	24.24	0.265	24.15	0.260
1.4	16QAM	3	1	24.21	0.264	24.24	0.265	24.26	0.267
1.4	16QAM	3	3	24.20	0.263	24.32	0.270	24.21	0.264
1.4	16QAM	6	0	24.11	0.258	24.12	0.258	24.03	0.253
1.4	64QAM	1	0	23.89	0.245	23.83	0.242	23.97	0.249
1.4	64QAM	1	3	24.15	0.260	24.13	0.259	24.25	0.266
1.4	64QAM	1	5	24.06	0.255	24.02	0.252	23.86	0.243
1.4	64QAM	3	0	23.97	0.249	23.95	0.248	24.14	0.259
1.4	64QAM	3	1	23.88	0.244	24.03	0.253	24.00	0.251
1.4	64QAM	3	3	23.94	0.248	24.11	0.258	23.99	0.251
1.4	64QAM	6	0	23.93	0.247	23.94	0.248	24.01	0.252



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	18.87	0.077	18.88	0.077	18.80	0.076
10	QPSK	1	25	18.73	0.075	18.76	0.075	18.56	0.072
10	QPSK	1	49	18.65	0.073	18.77	0.075	18.45	0.070
10	QPSK	25	0	18.18	0.066	18.20	0.066	18.01	0.063
10	QPSK	25	12	17.94	0.062	17.96	0.063	18.01	0.063
10	QPSK	25	25	17.94	0.062	18.05	0.064	18.10	0.065
10	QPSK	50	0	18.00	0.063	17.88	0.061	18.02	0.063
10	16QAM	1	0	18.04	0.064	18.23	0.067	17.94	0.062
10	16QAM	1	25	18.27	0.067	18.30	0.068	17.98	0.063
10	16QAM	1	49	18.10	0.065	18.16	0.065	18.23	0.067
10	16QAM	25	0	18.19	0.066	18.20	0.066	18.02	0.063
10	16QAM	25	12	18.13	0.065	18.21	0.066	17.99	0.063
10	16QAM	25	25	18.16	0.065	18.09	0.064	18.12	0.065
10	16QAM	50	0	18.17	0.066	18.08	0.064	17.98	0.063
10	64QAM	1	0	18.13	0.065	18.23	0.067	18.11	0.065
10	64QAM	1	25	18.10	0.065	18.30	0.068	18.10	0.065
10	64QAM	1	49	17.99	0.063	18.21	0.066	18.12	0.065
10	64QAM	25	0	18.10	0.065	18.21	0.066	17.88	0.061
10	64QAM	25	12	18.09	0.064	18.26	0.067	17.97	0.063
10	64QAM	25	25	18.21	0.066	18.10	0.065	17.80	0.060
10	64QAM	50	0	18.17	0.066	18.13	0.065	17.99	0.063



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	18.82	0.076	18.78	0.076	18.76	0.075
5	QPSK	1	12	18.72	0.074	18.83	0.076	18.67	0.074
5	QPSK	1	24	18.72	0.074	18.67	0.074	18.67	0.074
5	QPSK	12	0	18.09	0.064	18.14	0.065	18.00	0.063
5	QPSK	12	7	18.16	0.065	18.17	0.066	18.09	0.064
5	QPSK	12	13	18.21	0.066	18.05	0.064	18.00	0.063
5	QPSK	25	0	18.12	0.065	18.08	0.064	18.00	0.063
5	16QAM	1	0	18.41	0.069	18.34	0.068	18.10	0.065
5	16QAM	1	12	18.11	0.065	18.33	0.068	18.09	0.064
5	16QAM	1	24	17.98	0.063	18.33	0.068	18.16	0.065
5	16QAM	12	0	18.07	0.064	18.16	0.065	18.15	0.065
5	16QAM	12	7	18.14	0.065	18.17	0.066	17.99	0.063
5	16QAM	12	13	18.14	0.065	18.05	0.064	18.10	0.065
5	16QAM	25	0	18.15	0.065	18.20	0.066	18.15	0.065
5	64QAM	1	0	18.22	0.066	18.10	0.065	18.21	0.066
5	64QAM	1	12	18.10	0.065	18.04	0.064	18.18	0.066
5	64QAM	1	24	18.24	0.067	18.08	0.064	18.02	0.063
5	64QAM	12	0	17.96	0.063	18.10	0.065	17.90	0.062
5	64QAM	12	7	18.00	0.063	18.16	0.065	17.94	0.062
5	64QAM	12	13	18.18	0.066	18.13	0.065	17.70	0.059
5	64QAM	25	0	18.06	0.064	18.13	0.065	17.74	0.059



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	18.51	0.071	18.82	0.076	18.67	0.074
3	QPSK	1	8	18.77	0.075	18.78	0.076	18.69	0.074
3	QPSK	1	14	18.78	0.076	18.76	0.075	18.50	0.071
3	QPSK	8	0	18.02	0.063	18.15	0.065	18.13	0.065
3	QPSK	8	4	18.16	0.065	18.22	0.066	18.19	0.066
3	QPSK	8	7	18.11	0.065	18.13	0.065	18.00	0.063
3	QPSK	15	0	18.09	0.064	18.15	0.065	18.14	0.065
3	16QAM	1	0	18.11	0.065	18.22	0.066	18.29	0.067
3	16QAM	1	8	18.04	0.064	18.30	0.068	18.14	0.065
3	16QAM	1	14	18.09	0.064	18.35	0.068	18.10	0.065
3	16QAM	8	0	18.05	0.064	18.14	0.065	17.88	0.061
3	16QAM	8	4	18.21	0.066	18.32	0.068	17.89	0.062
3	16QAM	8	7	18.13	0.065	18.19	0.066	17.93	0.062
3	16QAM	15	0	18.07	0.064	18.09	0.064	17.64	0.058
3	64QAM	1	0	18.02	0.063	17.90	0.062	18.11	0.065
3	64QAM	1	8	17.90	0.062	18.14	0.065	17.90	0.062
3	64QAM	1	14	17.92	0.062	18.10	0.065	17.91	0.062
3	64QAM	8	0	18.02	0.063	18.12	0.065	18.10	0.065
3	64QAM	8	4	18.24	0.067	18.08	0.064	18.02	0.063
3	64QAM	8	7	18.19	0.066	18.11	0.065	18.08	0.064
3	64QAM	15	0	18.08	0.064	18.18	0.066	17.98	0.063



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	18.72	0.074	18.79	0.076	18.83	0.076
1.4	QPSK	1	3	18.85	0.077	18.78	0.076	18.85	0.077
1.4	QPSK	1	5	18.74	0.075	18.68	0.074	18.69	0.074
1.4	QPSK	3	0	18.75	0.075	18.81	0.076	18.77	0.075
1.4	QPSK	3	1	18.81	0.076	18.68	0.074	18.78	0.076
1.4	QPSK	3	3	18.82	0.076	18.74	0.075	18.74	0.075
1.4	QPSK	6	0	18.07	0.064	18.06	0.064	18.05	0.064
1.4	16QAM	1	0	18.20	0.066	18.01	0.063	18.18	0.066
1.4	16QAM	1	3	18.00	0.063	18.24	0.067	18.13	0.065
1.4	16QAM	1	5	18.39	0.069	18.07	0.064	18.13	0.065
1.4	16QAM	3	0	17.92	0.062	17.90	0.062	18.04	0.064
1.4	16QAM	3	1	17.95	0.062	18.22	0.066	18.08	0.064
1.4	16QAM	3	3	18.03	0.064	18.14	0.065	18.02	0.063
1.4	16QAM	6	0	18.22	0.066	18.09	0.064	18.13	0.065
1.4	64QAM	1	0	17.75	0.060	17.92	0.062	17.94	0.062
1.4	64QAM	1	3	18.06	0.064	18.07	0.064	18.02	0.063
1.4	64QAM	1	5	18.01	0.063	18.00	0.063	17.88	0.061
1.4	64QAM	3	0	17.67	0.058	17.94	0.062	17.95	0.062
1.4	64QAM	3	1	17.95	0.062	17.89	0.062	17.90	0.062
1.4	64QAM	3	3	17.85	0.061	18.02	0.063	18.06	0.064
1.4	64QAM	6	0	18.06	0.064	18.18	0.066	18.07	0.064



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	18.81	0.076	18.97	0.079	18.86	0.077
10	QPSK	1	25	18.67	0.074	18.80	0.076	18.83	0.076
10	QPSK	1	49	18.77	0.075	18.78	0.076	18.77	0.075
10	QPSK	25	0	18.06	0.064	18.16	0.065	18.07	0.064
10	QPSK	25	12	18.03	0.064	17.97	0.063	17.76	0.060
10	QPSK	25	25	18.08	0.064	18.14	0.065	18.07	0.064
10	QPSK	50	0	18.09	0.064	18.11	0.065	18.02	0.063
10	16QAM	1	0	18.02	0.063	17.57	0.057	17.70	0.059
10	16QAM	1	25	17.77	0.060	17.72	0.059	17.86	0.061
10	16QAM	1	49	17.86	0.061	17.91	0.062	17.80	0.060
10	16QAM	25	0	17.75	0.060	17.77	0.060	17.71	0.059
10	16QAM	25	12	17.79	0.060	17.83	0.061	17.72	0.059
10	16QAM	25	25	17.84	0.061	17.85	0.061	17.79	0.060
10	16QAM	50	0	17.74	0.059	17.82	0.061	17.87	0.061
10	64QAM	1	0	17.59	0.057	17.71	0.059	18.05	0.064
10	64QAM	1	25	18.03	0.064	18.09	0.064	17.68	0.059
10	64QAM	1	49	18.05	0.064	17.73	0.059	17.66	0.058
10	64QAM	25	0	17.56	0.057	17.50	0.056	17.47	0.056
10	64QAM	25	12	17.61	0.058	17.64	0.058	17.56	0.057
10	64QAM	25	25	17.66	0.058	17.63	0.058	17.63	0.058
10	64QAM	50	0	17.58	0.057	17.51	0.056	17.62	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	18.56	0.072	18.89	0.077	18.67	0.074
5	QPSK	1	12	18.72	0.074	18.88	0.077	18.72	0.074
5	QPSK	1	24	18.68	0.074	18.87	0.077	18.73	0.075
5	QPSK	12	0	17.79	0.060	17.86	0.061	17.85	0.061
5	QPSK	12	7	17.90	0.062	17.92	0.062	17.89	0.062
5	QPSK	12	13	17.85	0.061	17.88	0.061	17.85	0.061
5	QPSK	25	0	17.81	0.060	17.93	0.062	17.89	0.062
5	16QAM	1	0	17.82	0.061	17.84	0.061	17.86	0.061
5	16QAM	1	12	17.99	0.063	17.94	0.062	17.95	0.062
5	16QAM	1	24	17.95	0.062	17.93	0.062	17.89	0.062
5	16QAM	12	0	17.69	0.059	17.66	0.058	17.69	0.059
5	16QAM	12	7	17.83	0.061	17.88	0.061	17.72	0.059
5	16QAM	12	13	17.78	0.060	17.75	0.060	17.80	0.060
5	16QAM	25	0	17.79	0.060	17.75	0.060	17.77	0.060
5	64QAM	1	0	17.57	0.057	17.58	0.057	17.63	0.058
5	64QAM	1	12	18.02	0.063	17.72	0.059	17.65	0.058
5	64QAM	1	24	18.00	0.063	17.69	0.059	17.74	0.059
5	64QAM	12	0	17.54	0.057	17.56	0.057	17.51	0.056
5	64QAM	12	7	17.64	0.058	17.52	0.056	17.58	0.057
5	64QAM	12	13	17.51	0.056	17.61	0.058	17.66	0.058
5	64QAM	25	0	17.66	0.058	17.62	0.058	17.59	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	18.64	0.073	18.91	0.078	18.58	0.072
3	QPSK	1	8	18.82	0.076	18.81	0.076	18.71	0.074
3	QPSK	1	14	18.76	0.075	18.87	0.077	18.82	0.076
3	QPSK	8	0	17.87	0.061	17.85	0.061	17.85	0.061
3	QPSK	8	4	17.90	0.062	17.93	0.062	17.94	0.062
3	QPSK	8	7	17.85	0.061	17.93	0.062	17.87	0.061
3	QPSK	15	0	17.84	0.061	17.92	0.062	17.78	0.060
3	16QAM	1	0	17.85	0.061	18.21	0.066	17.80	0.060
3	16QAM	1	8	18.05	0.064	18.03	0.064	17.98	0.063
3	16QAM	1	14	17.88	0.061	17.93	0.062	17.79	0.060
3	16QAM	8	0	17.85	0.061	17.74	0.059	17.77	0.060
3	16QAM	8	4	17.90	0.062	17.87	0.061	17.98	0.063
3	16QAM	8	7	17.74	0.059	17.77	0.060	17.83	0.061
3	16QAM	15	0	17.72	0.059	17.65	0.058	17.64	0.058
3	64QAM	1	0	17.58	0.057	17.92	0.062	17.91	0.062
3	64QAM	1	8	17.87	0.061	17.77	0.060	17.78	0.060
3	64QAM	1	14	17.80	0.060	17.65	0.058	17.76	0.060
3	64QAM	8	0	17.47	0.056	17.55	0.057	17.46	0.056
3	64QAM	8	4	17.56	0.057	17.60	0.058	17.59	0.057
3	64QAM	8	7	17.55	0.057	17.47	0.056	17.62	0.058
3	64QAM	15	0	17.54	0.057	17.56	0.057	17.48	0.056



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	18.67	0.074	18.84	0.077	18.64	0.073
1.4	QPSK	1	3	18.78	0.076	18.77	0.075	18.79	0.076
1.4	QPSK	1	5	18.67	0.074	18.72	0.074	18.68	0.074
1.4	QPSK	3	0	18.62	0.073	18.75	0.075	18.73	0.075
1.4	QPSK	3	1	18.83	0.076	18.83	0.076	18.50	0.071
1.4	QPSK	3	3	18.78	0.076	18.80	0.076	18.76	0.075
1.4	QPSK	6	0	17.84	0.061	17.81	0.060	17.79	0.060
1.4	16QAM	1	0	17.88	0.061	17.82	0.061	17.67	0.058
1.4	16QAM	1	3	17.69	0.059	18.12	0.065	17.79	0.060
1.4	16QAM	1	5	17.81	0.060	17.82	0.061	17.81	0.060
1.4	16QAM	3	0	17.65	0.058	17.68	0.059	17.69	0.059
1.4	16QAM	3	1	17.81	0.060	17.89	0.062	17.73	0.059
1.4	16QAM	3	3	17.64	0.058	17.78	0.060	17.78	0.060
1.4	16QAM	6	0	17.57	0.057	17.77	0.060	17.67	0.058
1.4	64QAM	1	0	17.42	0.055	17.57	0.057	17.41	0.055
1.4	64QAM	1	3	17.54	0.057	17.47	0.056	17.52	0.056
1.4	64QAM	1	5	17.70	0.059	17.73	0.059	17.69	0.059
1.4	64QAM	3	0	17.60	0.058	17.61	0.058	17.44	0.055
1.4	64QAM	3	1	17.58	0.057	17.82	0.061	17.67	0.058
1.4	64QAM	3	3	17.60	0.058	17.44	0.055	17.60	0.058
1.4	64QAM	6	0	17.56	0.057	17.57	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	/	/	18.08	0.064	/	/
10	QPSK	1	25	/	/	17.91	0.062	/	/
10	QPSK	1	49	/	/	17.89	0.062	/	/
10	QPSK	25	0	/	/	17.27	0.053	/	/
10	QPSK	25	12	/	/	17.08	0.051	/	/
10	QPSK	25	25	/	/	17.25	0.053	/	/
10	QPSK	50	0	/	/	17.22	0.053	/	/
10	16QAM	1	0	/	/	16.68	0.047	/	/
10	16QAM	1	25	/	/	16.83	0.048	/	/
10	16QAM	1	49	/	/	17.02	0.050	/	/
10	16QAM	25	0	/	/	16.88	0.049	/	/
10	16QAM	25	12	/	/	16.94	0.049	/	/
10	16QAM	25	25	/	/	16.96	0.050	/	/
10	16QAM	50	0	/	/	16.93	0.049	/	/
10	64QAM	1	0	/	/	16.96	0.050	/	/
10	64QAM	1	25	/	/	17.34	0.054	/	/
10	64QAM	1	49	/	/	16.98	0.050	/	/
10	64QAM	25	0	/	/	16.75	0.047	/	/
10	64QAM	25	12	/	/	16.89	0.049	/	/
10	64QAM	25	25	/	/	16.88	0.049	/	/
10	64QAM	50	0	/	/	16.76	0.047	/	/



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	17.67	0.058	18.00	0.063	17.78	0.060
5	QPSK	1	12	17.83	0.061	17.99	0.063	17.83	0.061
5	QPSK	1	24	17.79	0.060	17.98	0.063	17.84	0.061
5	QPSK	12	0	16.90	0.049	16.97	0.050	16.96	0.050
5	QPSK	12	7	17.01	0.050	17.03	0.050	17.00	0.050
5	QPSK	12	13	16.96	0.050	16.99	0.050	16.96	0.050
5	QPSK	25	0	16.92	0.049	17.04	0.051	17.00	0.050
5	16QAM	1	0	16.93	0.049	16.95	0.050	16.97	0.050
5	16QAM	1	12	17.10	0.051	17.05	0.051	17.06	0.051
5	16QAM	1	24	17.06	0.051	17.04	0.051	17.00	0.050
5	16QAM	12	0	16.80	0.048	16.77	0.048	16.80	0.048
5	16QAM	12	7	17.08	0.051	17.13	0.052	16.97	0.050
5	16QAM	12	13	17.03	0.050	17.00	0.050	17.05	0.051
5	16QAM	25	0	17.04	0.051	17.00	0.050	17.02	0.050
5	64QAM	1	0	16.82	0.048	16.83	0.048	16.88	0.049
5	64QAM	1	12	17.27	0.053	16.97	0.050	16.90	0.049
5	64QAM	1	24	17.25	0.053	16.94	0.049	16.99	0.050
5	64QAM	12	0	16.79	0.048	16.81	0.048	16.76	0.047
5	64QAM	12	7	16.89	0.049	16.77	0.048	16.83	0.048
5	64QAM	12	13	16.76	0.047	16.86	0.049	16.91	0.049
5	64QAM	25	0	16.91	0.049	16.87	0.049	16.84	0.048



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	25.26	0.336	25.32	0.340	25.30	0.339
20	QPSK	1	49	25.11	0.324	25.10	0.324	25.06	0.321
20	QPSK	1	99	25.04	0.319	25.03	0.318	25.06	0.321
20	QPSK	50	0	24.18	0.262	24.25	0.266	24.21	0.264
20	QPSK	50	24	23.99	0.251	24.01	0.252	24.14	0.259
20	QPSK	50	50	24.03	0.253	24.11	0.258	23.99	0.251
20	QPSK	100	0	24.01	0.252	24.01	0.252	23.93	0.247
20	16QAM	1	0	24.06	0.255	23.82	0.241	24.10	0.257
20	16QAM	1	49	24.11	0.258	23.85	0.243	23.91	0.246
20	16QAM	1	99	24.11	0.258	24.29	0.269	24.08	0.256
20	16QAM	50	0	24.23	0.265	24.20	0.263	24.17	0.261
20	16QAM	50	24	24.12	0.258	24.12	0.258	24.13	0.259
20	16QAM	50	50	24.09	0.256	24.01	0.252	23.97	0.249
20	16QAM	100	0	24.05	0.254	24.08	0.256	24.14	0.259
20	64QAM	1	0	24.21	0.264	23.98	0.250	24.31	0.270
20	64QAM	1	49	23.98	0.250	24.31	0.270	24.30	0.269
20	64QAM	1	99	24.21	0.264	24.33	0.271	24.41	0.276
20	64QAM	50	0	24.17	0.261	24.07	0.255	24.20	0.263
20	64QAM	50	24	24.11	0.258	24.05	0.254	24.17	0.261
20	64QAM	50	50	24.13	0.259	24.01	0.252	24.07	0.255
20	64QAM	100	0	24.12	0.258	24.12	0.258	24.10	0.257



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	25.05	0.320	25.09	0.323	25.07	0.321
15	QPSK	1	37	25.19	0.330	25.05	0.320	25.03	0.318
15	QPSK	1	74	25.03	0.318	24.99	0.316	24.97	0.314
15	QPSK	36	0	24.00	0.251	23.97	0.249	24.01	0.252
15	QPSK	36	20	24.00	0.251	23.92	0.247	24.02	0.252
15	QPSK	36	39	23.86	0.243	23.91	0.246	23.88	0.244
15	QPSK	75	0	23.95	0.248	23.99	0.251	23.92	0.247
15	16QAM	1	0	23.94	0.248	23.81	0.240	24.11	0.258
15	16QAM	1	37	23.81	0.240	24.11	0.258	24.04	0.254
15	16QAM	1	74	23.91	0.246	23.81	0.240	23.81	0.240
15	16QAM	36	0	24.12	0.258	24.12	0.258	24.03	0.253
15	16QAM	36	20	24.15	0.260	24.14	0.259	24.20	0.263
15	16QAM	36	39	24.07	0.255	24.22	0.264	24.16	0.261
15	16QAM	75	0	24.17	0.261	24.15	0.260	24.11	0.258
15	64QAM	1	0	24.31	0.270	24.21	0.264	24.31	0.270
15	64QAM	1	37	24.33	0.271	24.11	0.258	24.21	0.264
15	64QAM	1	74	23.98	0.250	24.24	0.265	24.31	0.270
15	64QAM	36	0	24.10	0.257	24.09	0.256	24.22	0.264
15	64QAM	36	20	24.20	0.263	24.16	0.261	24.17	0.261
15	64QAM	36	39	24.09	0.256	24.03	0.253	24.07	0.255
15	64QAM	75	0	24.11	0.258	24.13	0.259	24.10	0.257



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	25.03	0.318	25.03	0.318	25.04	0.319
10	QPSK	1	25	24.93	0.311	24.91	0.310	24.99	0.316
10	QPSK	1	49	25.07	0.321	24.95	0.313	24.85	0.305
10	QPSK	25	0	24.26	0.267	24.19	0.262	24.26	0.267
10	QPSK	25	12	24.23	0.265	24.42	0.277	24.20	0.263
10	QPSK	25	25	24.24	0.265	24.20	0.263	24.12	0.258
10	QPSK	50	0	24.32	0.270	24.17	0.261	24.36	0.273
10	16QAM	1	0	24.24	0.265	24.24	0.265	24.44	0.278
10	16QAM	1	25	24.24	0.265	24.33	0.271	24.45	0.279
10	16QAM	1	49	24.07	0.255	24.27	0.267	24.15	0.260
10	16QAM	25	0	24.08	0.256	24.25	0.266	24.13	0.259
10	16QAM	25	12	24.07	0.255	24.27	0.267	24.18	0.262
10	16QAM	25	25	23.98	0.250	24.03	0.253	24.03	0.253
10	16QAM	50	0	24.14	0.259	24.18	0.262	24.19	0.262
10	64QAM	1	0	24.14	0.259	24.14	0.259	23.81	0.240
10	64QAM	1	25	23.81	0.240	23.94	0.248	23.84	0.242
10	64QAM	1	49	23.81	0.240	23.81	0.240	23.81	0.240
10	64QAM	25	0	24.14	0.259	24.12	0.258	24.14	0.259
10	64QAM	25	12	24.13	0.259	24.17	0.261	24.21	0.264
10	64QAM	25	25	24.13	0.259	24.06	0.255	24.08	0.256
10	64QAM	50	0	24.03	0.253	24.13	0.259	24.14	0.259



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	24.92	0.310	24.95	0.313	25.00	0.316
5	QPSK	1	12	24.95	0.313	24.95	0.313	24.94	0.312
5	QPSK	1	24	25.03	0.318	24.93	0.311	24.99	0.316
5	QPSK	12	0	23.95	0.248	23.97	0.249	23.93	0.247
5	QPSK	12	7	23.97	0.249	24.05	0.254	23.98	0.250
5	QPSK	12	13	23.88	0.244	23.94	0.248	23.95	0.248
5	QPSK	25	0	23.98	0.250	23.99	0.251	23.98	0.250
5	16QAM	1	0	24.47	0.280	24.16	0.261	24.17	0.261
5	16QAM	1	12	24.10	0.257	24.39	0.275	24.34	0.272
5	16QAM	1	24	24.22	0.264	24.11	0.258	24.46	0.279
5	16QAM	12	0	24.11	0.258	24.22	0.264	24.18	0.262
5	16QAM	12	7	24.28	0.268	24.20	0.263	24.32	0.270
5	16QAM	12	13	24.19	0.262	24.13	0.259	24.20	0.263
5	16QAM	25	0	24.20	0.263	24.22	0.264	24.14	0.259
5	64QAM	1	0	23.81	0.240	24.21	0.264	24.01	0.252
5	64QAM	1	12	24.11	0.258	24.11	0.258	24.11	0.258
5	64QAM	1	24	23.94	0.248	23.98	0.250	23.94	0.248
5	64QAM	12	0	24.18	0.262	23.93	0.247	24.14	0.259
5	64QAM	12	7	24.26	0.267	23.85	0.243	24.16	0.261
5	64QAM	12	13	24.09	0.256	24.21	0.264	24.16	0.261
5	64QAM	25	0	24.16	0.261	24.24	0.265	24.11	0.258



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	24.99	0.316	24.90	0.309	24.89	0.308
3	QPSK	1	8	24.86	0.306	24.87	0.307	24.95	0.313
3	QPSK	1	14	24.77	0.300	24.58	0.287	24.88	0.308
3	QPSK	8	0	24.21	0.264	24.18	0.262	24.22	0.264
3	QPSK	8	4	24.21	0.264	24.13	0.259	24.23	0.265
3	QPSK	8	7	24.07	0.255	24.12	0.258	24.09	0.256
3	QPSK	15	0	24.16	0.261	24.20	0.263	24.13	0.259
3	16QAM	1	0	23.85	0.243	24.26	0.267	24.02	0.252
3	16QAM	1	8	24.18	0.262	24.12	0.258	24.11	0.258
3	16QAM	1	14	24.22	0.264	24.11	0.258	23.81	0.240
3	16QAM	8	0	24.03	0.253	24.03	0.253	23.94	0.248
3	16QAM	8	4	24.06	0.255	24.05	0.254	24.11	0.258
3	16QAM	8	7	23.98	0.250	24.13	0.259	24.07	0.255
3	16QAM	15	0	24.08	0.256	24.06	0.255	24.02	0.252
3	64QAM	1	0	24.22	0.264	24.12	0.258	24.22	0.264
3	64QAM	1	8	24.24	0.265	24.02	0.252	24.12	0.258
3	64QAM	1	14	23.89	0.245	24.15	0.260	24.22	0.264
3	64QAM	8	0	24.01	0.252	24.00	0.251	24.13	0.259
3	64QAM	8	4	24.11	0.258	24.07	0.255	24.08	0.256
3	64QAM	8	7	24.00	0.251	23.94	0.248	23.98	0.250
3	64QAM	15	0	24.02	0.252	24.04	0.254	24.01	0.252



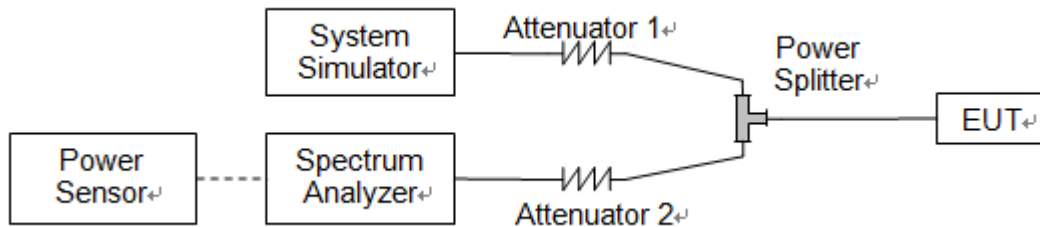
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	24.93	0.311	24.84	0.305	24.85	0.305
1.4	QPSK	1	3	24.99	0.316	25.01	0.317	25.01	0.317
1.4	QPSK	1	5	24.91	0.310	24.79	0.301	24.95	0.313
1.4	QPSK	3	0	24.90	0.309	24.83	0.304	24.90	0.309
1.4	QPSK	3	1	24.87	0.307	24.93	0.311	24.84	0.305
1.4	QPSK	3	3	24.88	0.308	24.84	0.305	24.76	0.299
1.4	QPSK	6	0	24.24	0.265	24.09	0.256	24.28	0.268
1.4	16QAM	1	0	24.16	0.261	24.16	0.261	24.36	0.273
1.4	16QAM	1	3	24.16	0.261	24.25	0.266	24.37	0.274
1.4	16QAM	1	5	23.99	0.251	24.19	0.262	24.07	0.255
1.4	16QAM	3	0	23.70	0.234	23.67	0.233	23.93	0.247
1.4	16QAM	3	1	23.79	0.239	23.69	0.234	23.81	0.240
1.4	16QAM	3	3	23.80	0.240	23.81	0.240	23.75	0.237
1.4	16QAM	6	0	23.69	0.234	23.60	0.229	23.61	0.230
1.4	64QAM	1	0	24.03	0.253	23.88	0.244	24.04	0.254
1.4	64QAM	1	3	23.76	0.238	23.85	0.243	23.85	0.243
1.4	64QAM	1	5	23.73	0.236	23.73	0.236	23.84	0.242
1.4	64QAM	3	0	24.06	0.255	24.04	0.254	24.06	0.255
1.4	64QAM	3	1	24.05	0.254	24.09	0.256	24.13	0.259
1.4	64QAM	3	3	24.05	0.254	23.98	0.250	24.00	0.251
1.4	64QAM	6	0	23.95	0.248	24.05	0.254	24.06	0.255

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	1.09	1.29
	Low	16QAM	1.10	1.31
	Low	64QAM	1.10	1.31
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.30
	Mid	64QAM	1.10	1.30
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.31
	High	64QAM	1.10	1.23
3	Low	QPSK	2.71	2.98
	Low	16QAM	2.71	2.99
	Low	64QAM	2.71	3.00
	Mid	QPSK	2.70	2.98
	Mid	16QAM	2.70	3.00
	Mid	64QAM	2.71	2.99
	High	QPSK	2.71	3.02
	High	16QAM	2.70	2.99
	High	64QAM	2.65	2.88
5	Low	QPSK	4.51	5.03
	Low	16QAM	4.50	5.02
	Low	64QAM	4.51	5.02
	Mid	QPSK	4.51	5.03
	Mid	16QAM	4.50	5.01
	Mid	64QAM	4.50	5.00
	High	QPSK	4.50	4.99
	High	16QAM	4.51	5.01
	High	64QAM	4.51	5.03
10	Low	QPSK	8.91	9.58
	Low	16QAM	8.96	9.85
	Low	64QAM	8.99	9.90
	Mid	QPSK	8.98	9.82
	Mid	16QAM	8.95	9.79
	Mid	64QAM	8.98	9.90
	High	QPSK	9.00	9.86
	High	16QAM	8.96	9.82
	High	64QAM	8.97	9.88



15	Low	QPSK	13.48	14.80
	Low	16QAM	13.46	14.70
	Low	64QAM	13.46	14.65
	Mid	QPSK	13.43	14.60
	Mid	16QAM	13.46	14.80
	Mid	64QAM	13.44	14.67
	High	QPSK	13.47	14.75
	High	16QAM	13.44	14.69
	High	64QAM	13.43	14.68
20	Low	QPSK	18.00	19.55
	Low	16QAM	18.00	19.51
	Low	64QAM	17.98	19.71
	Mid	QPSK	17.94	19.40
	Mid	16QAM	17.96	19.52
	Mid	64QAM	17.91	19.47
	High	QPSK	17.94	19.48
	High	16QAM	17.98	19.47
	High	64QAM	17.97	19.56



LTE Band 4				
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
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.10	1.29
	Mid	16QAM	1.10	1.30
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.29
3	Low	QPSK	2.70	2.98
	Low	16QAM	2.70	2.99
	Low	64QAM	2.71	2.99
	Mid	QPSK	2.70	2.98
	Mid	16QAM	2.70	2.99
	Mid	64QAM	2.71	2.96
	High	QPSK	2.70	3.00
	High	16QAM	2.71	2.99
	High	64QAM	2.71	2.98
5	Low	QPSK	4.50	5.01
	Low	16QAM	4.50	4.96
	Low	64QAM	4.51	4.98
	Mid	QPSK	4.51	4.98
	Mid	16QAM	4.50	4.97
	Mid	64QAM	4.51	4.99
	High	QPSK	4.50	5.00
	High	16QAM	4.50	4.92
	High	64QAM	4.51	4.95
10	Low	QPSK	8.98	9.84
	Low	16QAM	8.95	9.78
	Low	64QAM	8.97	9.84
	Mid	QPSK	8.98	9.85
	Mid	16QAM	8.97	9.79
	Mid	64QAM	8.99	9.88
	High	QPSK	8.97	9.86
	High	16QAM	8.96	9.83
	High	64QAM	8.97	9.83



15	Low	QPSK	13.44	14.67
	Low	16QAM	13.43	14.59
	Low	64QAM	13.42	14.64
	Mid	QPSK	13.50	14.62
	Mid	16QAM	13.47	14.79
	Mid	64QAM	13.47	14.69
	High	QPSK	13.47	14.74
	High	16QAM	13.45	14.65
	High	64QAM	13.44	14.63
20	Low	QPSK	17.89	19.09
	Low	16QAM	17.94	19.47
	Low	64QAM	17.91	19.61
	Mid	QPSK	17.97	19.54
	Mid	16QAM	17.99	19.39
	Mid	64QAM	17.99	19.47
	High	QPSK	17.93	19.38
	High	16QAM	17.92	19.44
	High	64QAM	17.93	19.56



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.28
	Low	16QAM	1.10	1.28
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.10	1.27
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.30
	High	QPSK	1.10	1.28
	High	16QAM	1.08	1.25
	High	64QAM	1.10	1.29
3	Low	QPSK	2.70	3.00
	Low	16QAM	2.71	2.98
	Low	64QAM	2.70	2.96
	Mid	QPSK	2.70	2.98
	Mid	16QAM	2.71	2.99
	Mid	64QAM	2.70	2.98
	High	QPSK	2.70	2.98
	High	16QAM	2.70	2.98
	High	64QAM	2.70	2.96
5	Low	QPSK	4.51	4.99
	Low	16QAM	4.51	4.83
	Low	64QAM	4.50	5.00
	Mid	QPSK	4.51	5.00
	Mid	16QAM	4.51	4.99
	Mid	64QAM	4.52	5.00
	High	QPSK	4.51	5.05
	High	16QAM	4.51	5.02
	High	64QAM	4.49	4.96
10	Low	QPSK	9.00	9.88
	Low	16QAM	8.98	9.85
	Low	64QAM	8.98	9.89
	Mid	QPSK	9.01	9.90
	Mid	16QAM	8.96	9.82
	Mid	64QAM	8.99	9.83
	High	QPSK	9.01	9.84
	High	16QAM	8.96	9.84
	High	64QAM	8.99	9.88



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.29
	Low	16QAM	1.10	1.24
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.30
	Mid	64QAM	1.10	1.27
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.31
	High	64QAM	1.10	1.29
3	Low	QPSK	2.70	2.97
	Low	16QAM	2.70	3.00
	Low	64QAM	2.71	2.98
	Mid	QPSK	2.70	2.97
	Mid	16QAM	2.70	3.00
	Mid	64QAM	2.70	2.99
	High	QPSK	2.70	2.99
	High	16QAM	2.70	2.99
	High	64QAM	2.70	2.96
5	Low	QPSK	4.50	5.05
	Low	16QAM	4.50	4.94
	Low	64QAM	4.51	5.00
	Mid	QPSK	4.51	5.01
	Mid	16QAM	4.51	4.99
	Mid	64QAM	4.50	5.01
	High	QPSK	4.51	5.02
	High	16QAM	4.50	4.95
	High	64QAM	4.51	5.03
10	Low	QPSK	8.98	9.79
	Low	16QAM	8.97	9.81
	Low	64QAM	8.99	9.89
	Mid	QPSK	8.98	9.85
	Mid	16QAM	8.96	9.77
	Mid	64QAM	8.99	9.87
	High	QPSK	8.99	9.84
	High	16QAM	8.95	9.82
	High	64QAM	8.97	9.81



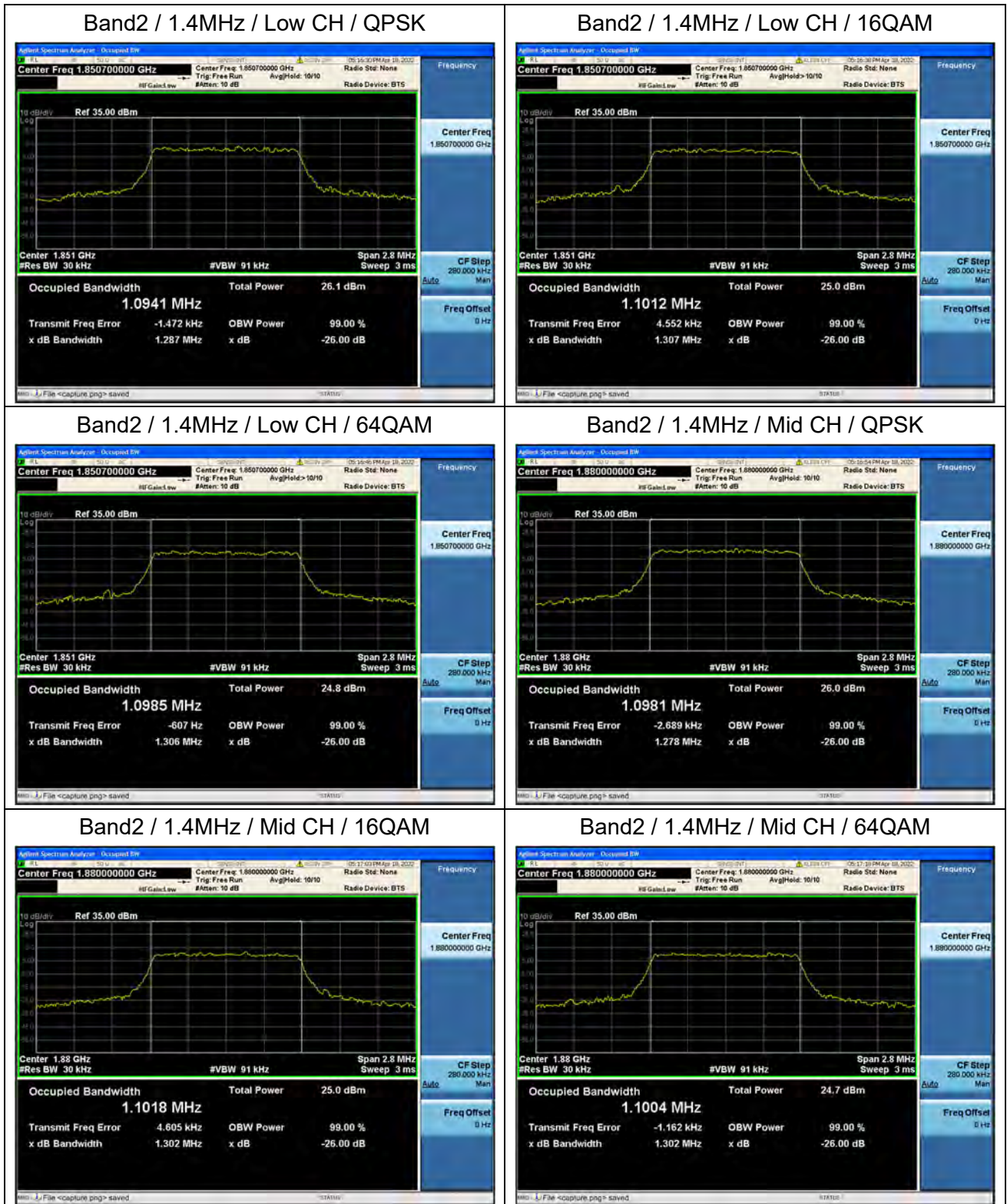
LTE Band 13				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	4.94
	Low	16QAM	4.50	4.96
	Low	64QAM	4.49	4.96
	Mid	QPSK	4.50	5.00
	Mid	16QAM	4.50	4.97
	Mid	64QAM	4.51	5.02
	High	QPSK	4.51	5.03
	High	16QAM	4.50	5.03
	High	64QAM	4.51	5.02
10	Low	QPSK	8.97	9.85
	Low	16QAM	8.93	9.80
	Low	64QAM	8.95	9.84
	Mid	QPSK	8.97	9.84
	Mid	16QAM	8.94	9.82
	Mid	64QAM	8.95	9.84
	High	QPSK	8.96	9.83
	High	16QAM	8.94	9.77
	High	64QAM	8.96	9.81



LTE Band 66				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.27
	Low	16QAM	1.10	1.28
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.29
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.23
3	Low	QPSK	2.70	2.96
	Low	16QAM	2.70	3.00
	Low	64QAM	2.71	3.00
	Mid	QPSK	2.70	2.96
	Mid	16QAM	2.70	3.00
	Mid	64QAM	2.70	2.99
	High	QPSK	2.70	2.99
	High	16QAM	2.70	2.99
	High	64QAM	2.70	2.97
5	Low	QPSK	4.50	4.96
	Low	16QAM	4.50	4.89
	Low	64QAM	4.51	5.03
	Mid	QPSK	4.51	4.98
	Mid	16QAM	4.45	4.81
	Mid	64QAM	4.50	4.93
	High	QPSK	4.50	5.00
	High	16QAM	4.50	4.96
	High	64QAM	4.50	4.98
10	Low	QPSK	8.95	9.52
	Low	16QAM	8.94	9.67
	Low	64QAM	8.96	9.87
	Mid	QPSK	8.95	9.54
	Mid	16QAM	8.96	9.77
	Mid	64QAM	8.97	9.88
	High	QPSK	8.98	9.82
	High	16QAM	8.95	9.85
	High	64QAM	8.98	9.84

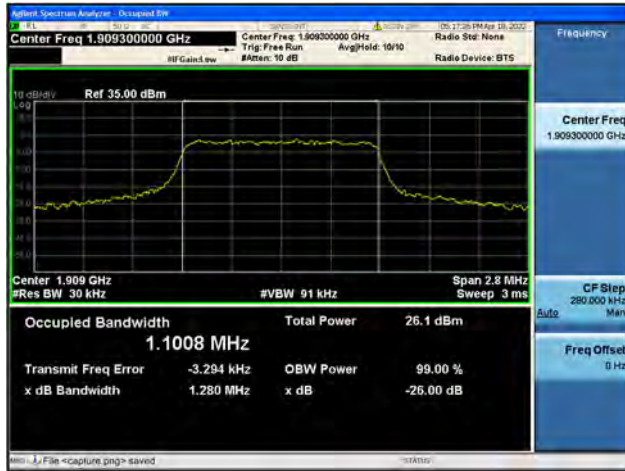


15	Low	QPSK	13.44	14.63
	Low	16QAM	13.44	14.54
	Low	64QAM	13.41	14.74
	Mid	QPSK	13.44	14.74
	Mid	16QAM	13.46	14.79
	Mid	64QAM	13.44	14.64
	High	QPSK	13.49	14.57
	High	16QAM	13.47	14.62
	High	64QAM	13.44	14.77
20	Low	QPSK	17.90	19.42
	Low	16QAM	17.92	19.49
	Low	64QAM	17.89	19.35
	Mid	QPSK	17.94	19.48
	Mid	16QAM	17.99	19.51
	Mid	64QAM	17.91	19.56
	High	QPSK	17.98	19.29
	High	16QAM	18.01	19.57
	High	64QAM	17.92	19.06





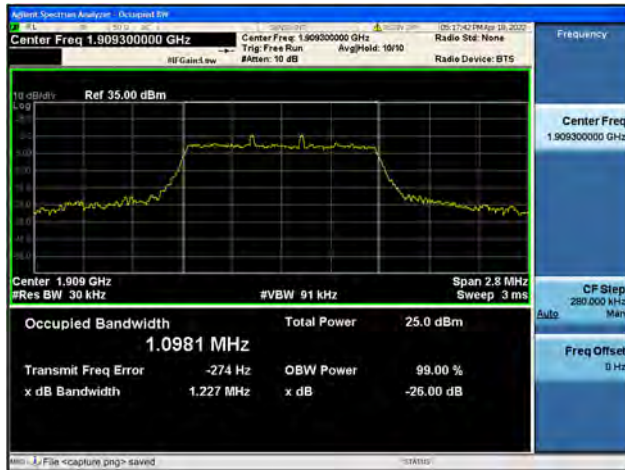
Band2 / 1.4MHz / High CH / QPSK



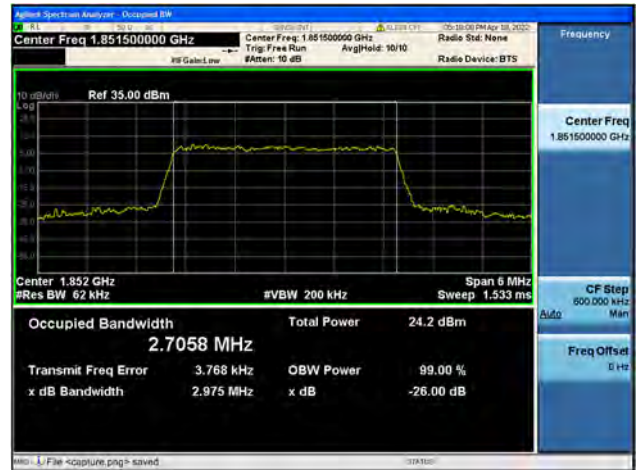
Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



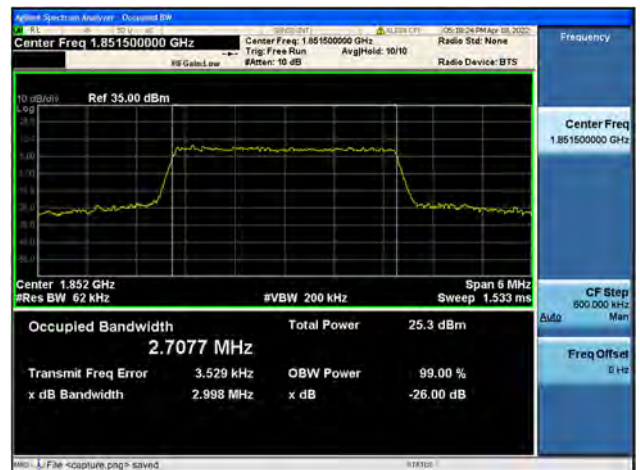
Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Low CH / 64QAM

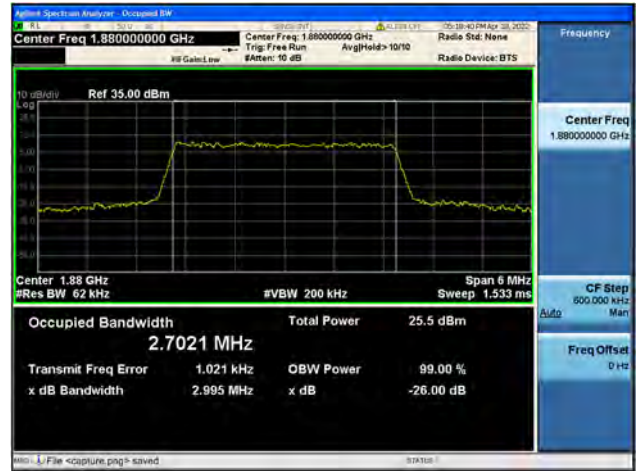




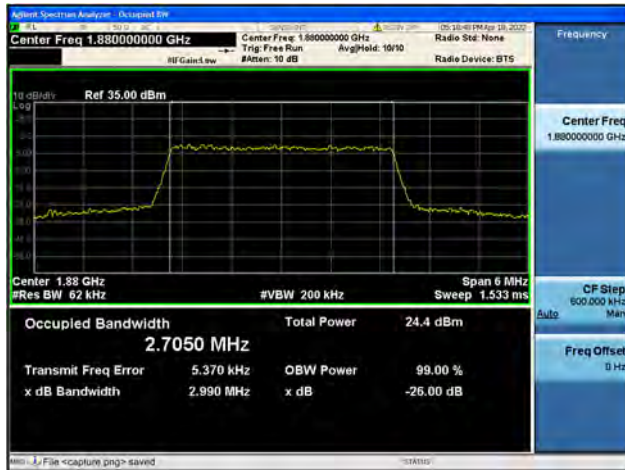
Band2 / 3MHz / Mid CH / QPSK



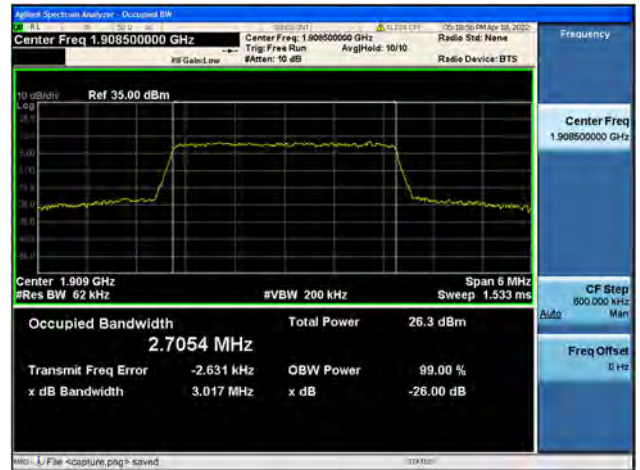
Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM

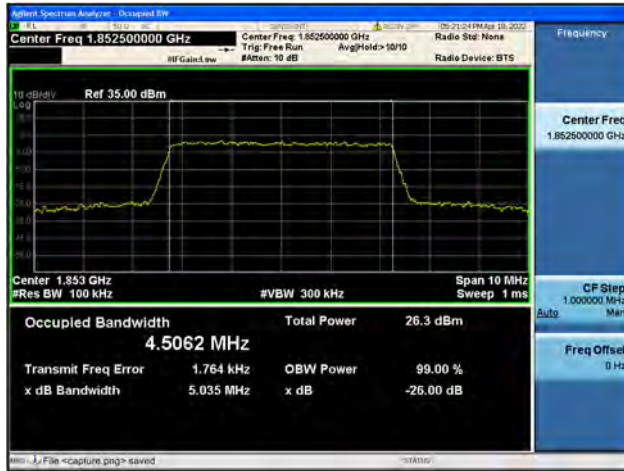


Band2 / 3MHz / High CH / 64QAM





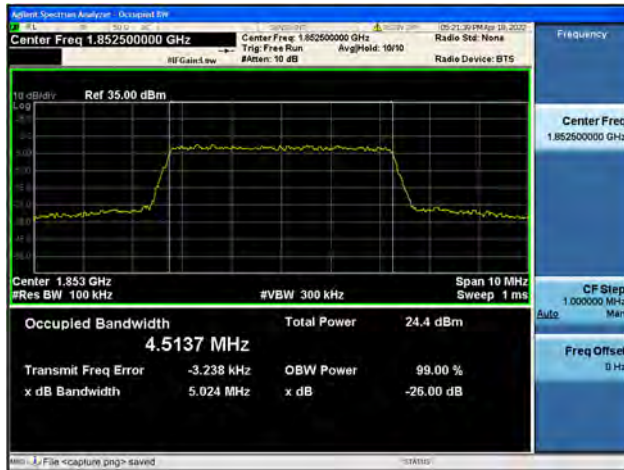
Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM

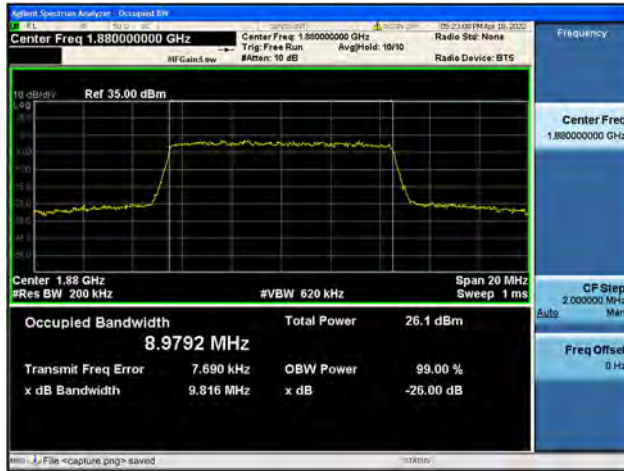


Band2 / 5MHz / Mid CH / 64QAM





Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



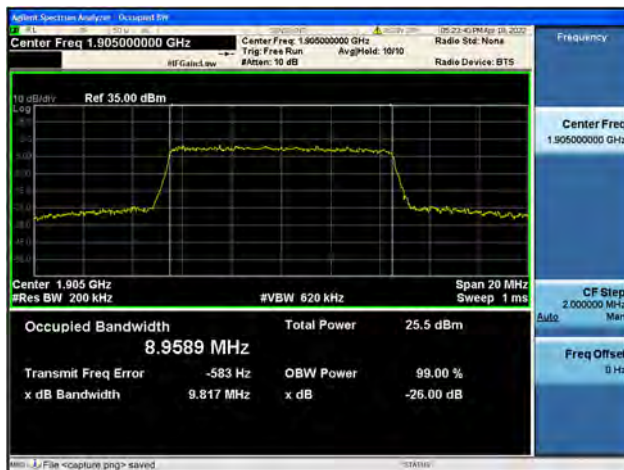
Band2 / 10MHz / Mid CH / 64QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM

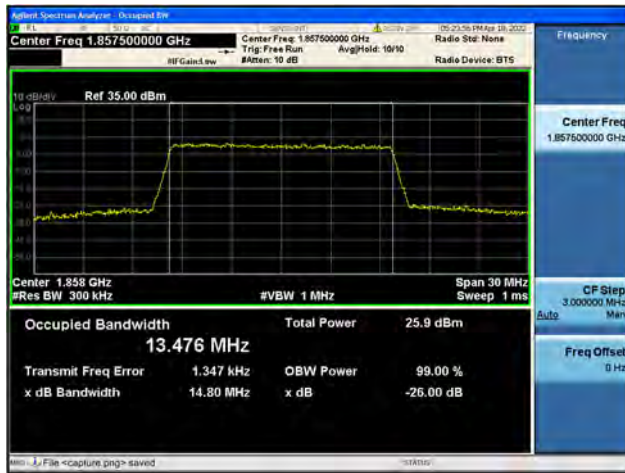


Band2 / 10MHz / High CH / 64QAM

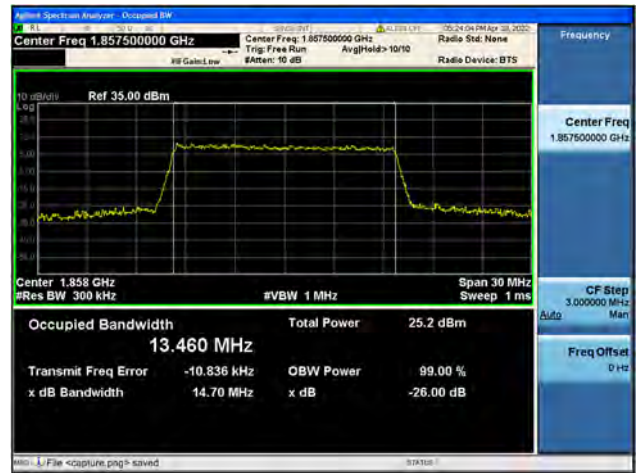




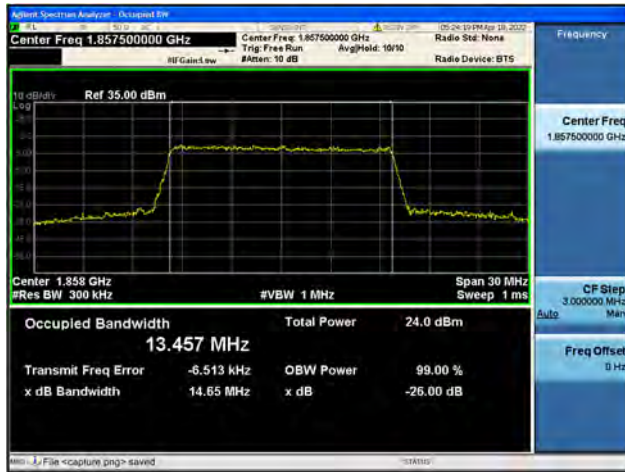
Band2 / 15MHz / Low CH / QPSK



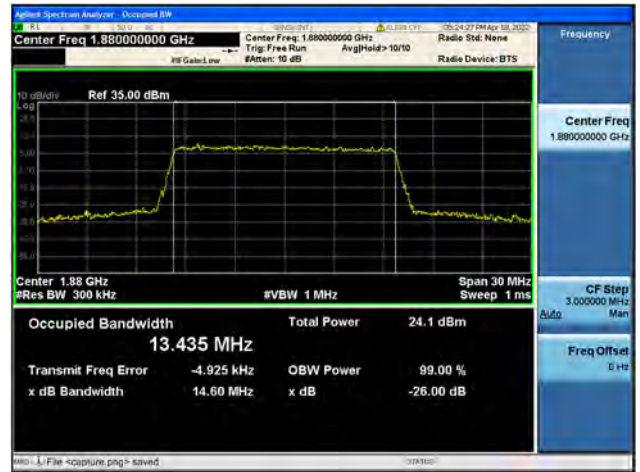
Band2 / 15MHz / Low CH / 16QAM



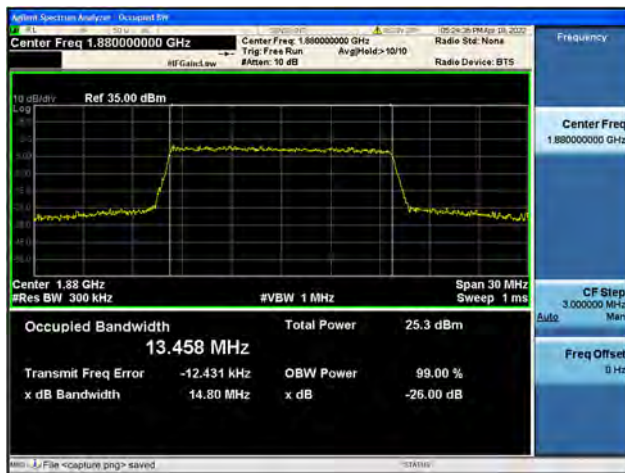
Band2 / 15MHz / Low CH / 64QAM



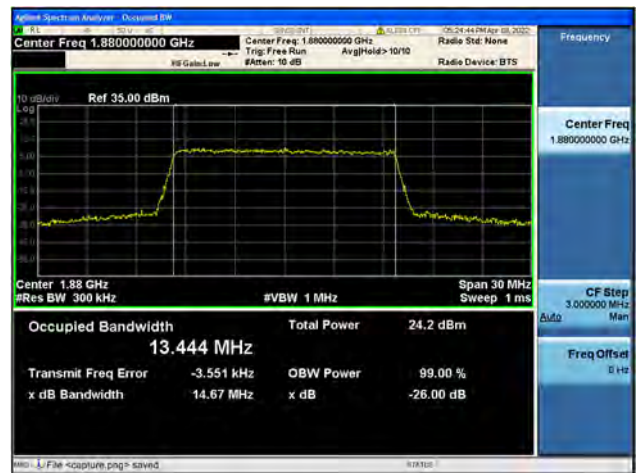
Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM



Band2 / 15MHz / Mid CH / 64QAM





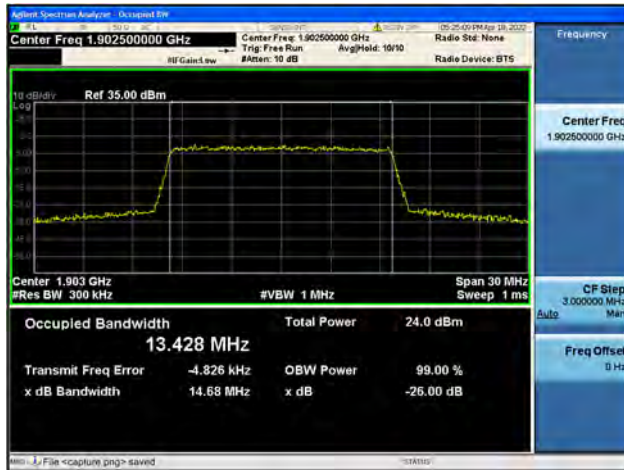
Band2 / 15MHz / High CH / QPSK



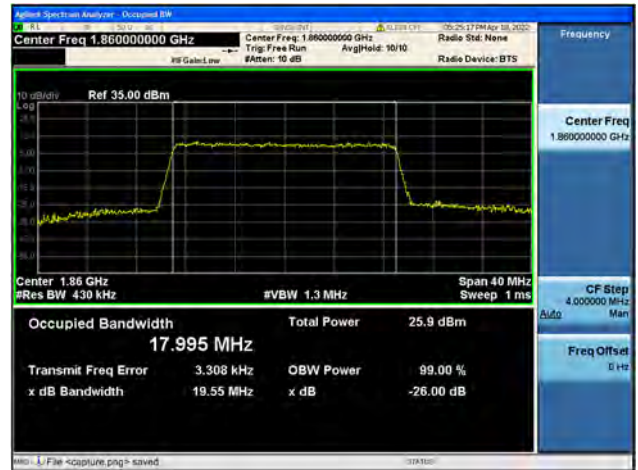
Band2 / 15MHz / High CH / 16QAM



Band2 / 15MHz / High CH / 64QAM



Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM



Band2 / 20MHz / Low CH / 64QAM





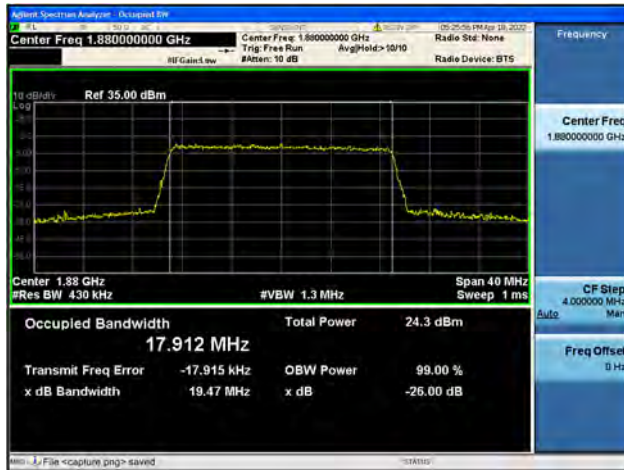
Band2 / 20MHz / Mid CH / QPSK



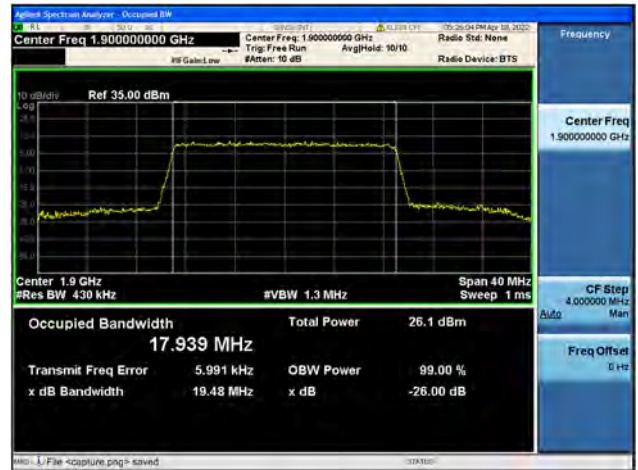
Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / Mid CH / 64QAM



Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM

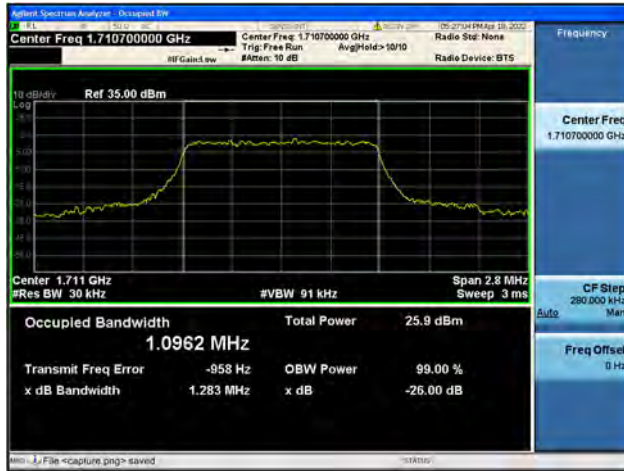


Band2 / 20MHz / High CH / 64QAM





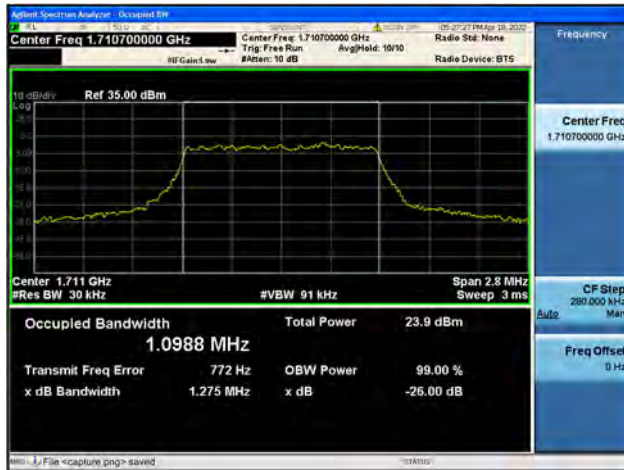
Band4 / 1.4MHz / Low CH / QPSK



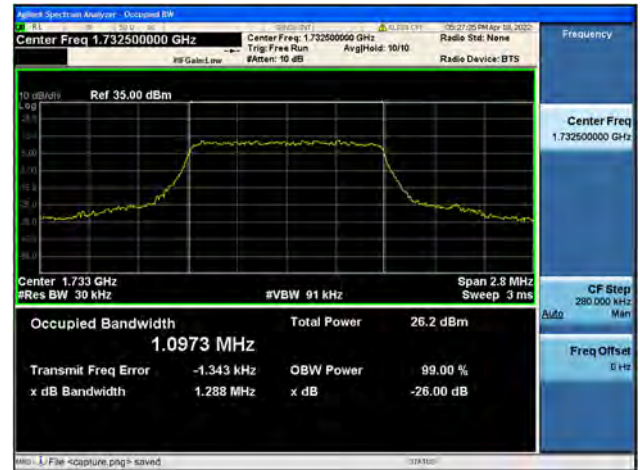
Band4 / 1.4MHz / Low CH / 16QAM



Band4 / 1.4MHz / Low CH / 64QAM



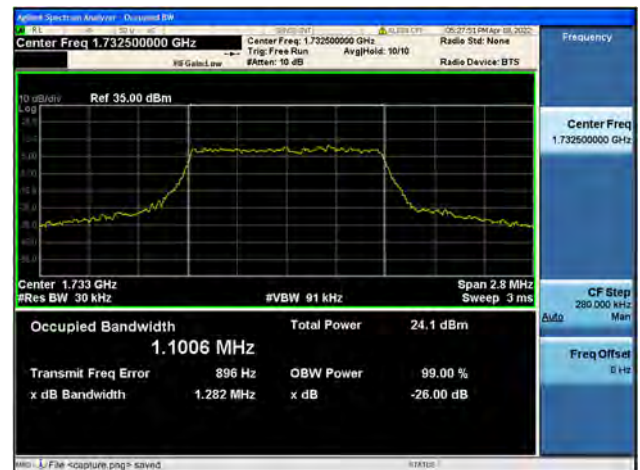
Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM

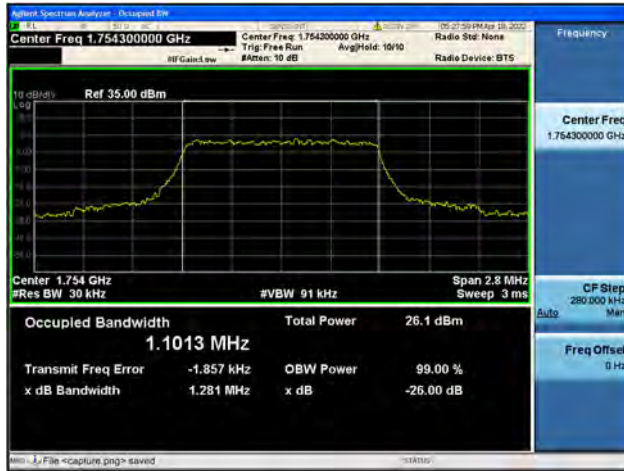


Band4 / 1.4MHz / Mid CH / 64QAM

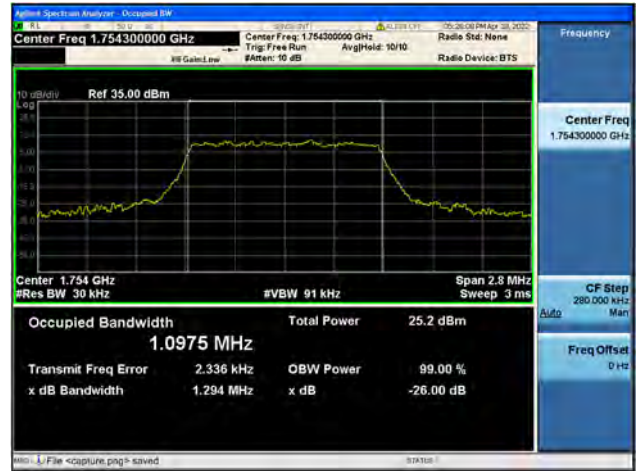




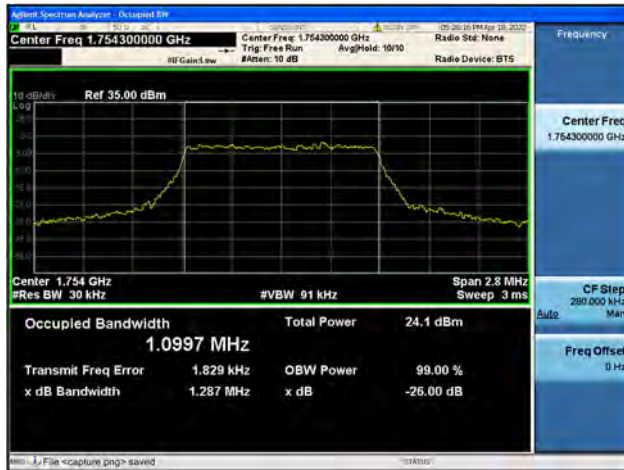
Band4 / 1.4MHz / High CH / QPSK



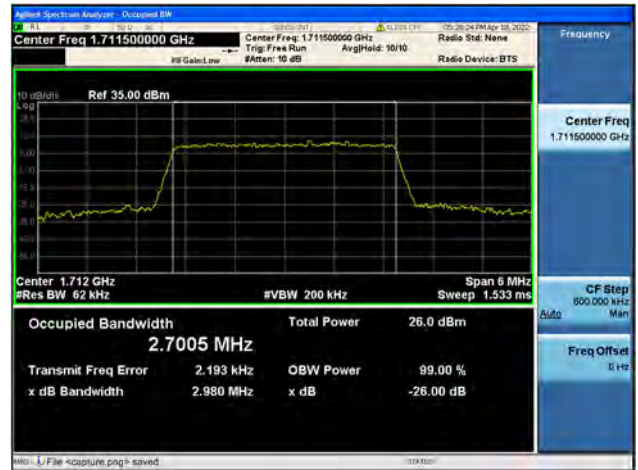
Band4 / 1.4MHz / High CH / 16QAM



Band4 / 1.4MHz / High CH / 64QAM



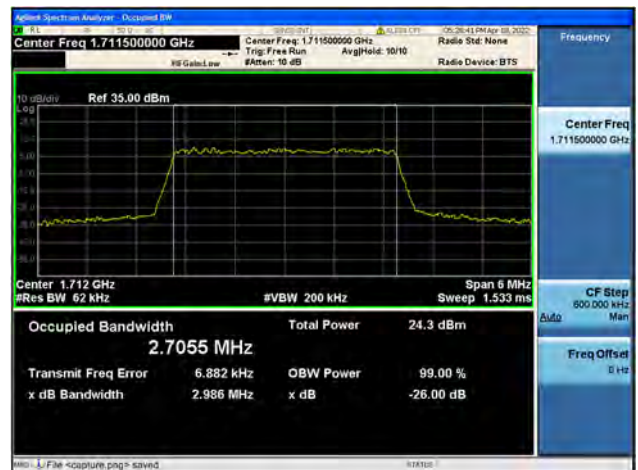
Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM



Band4 / 3MHz / Low CH / 64QAM





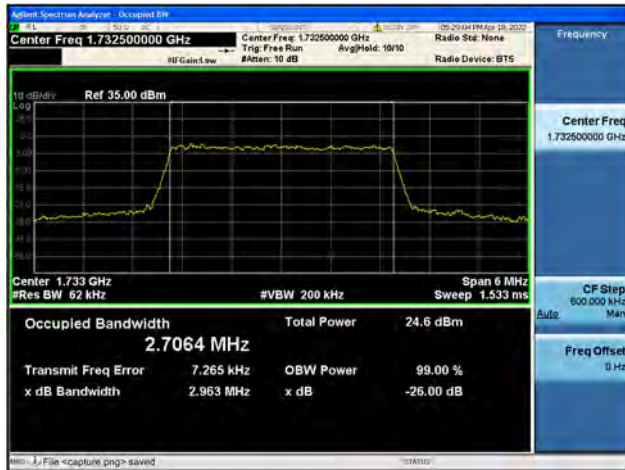
Band4 / 3MHz / Mid CH / QPSK



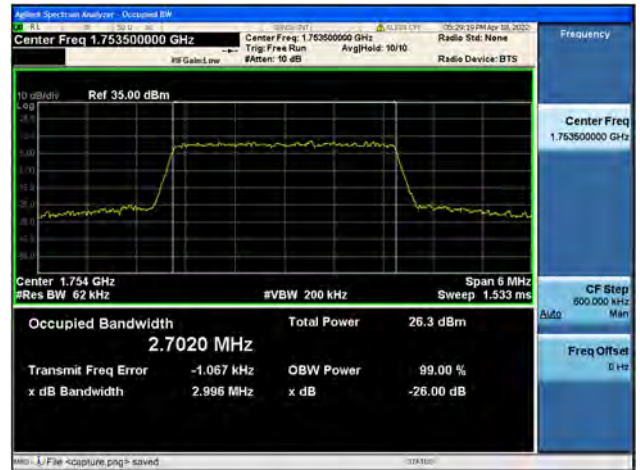
Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / Mid CH / 64QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM



Band4 / 3MHz / High CH / 64QAM





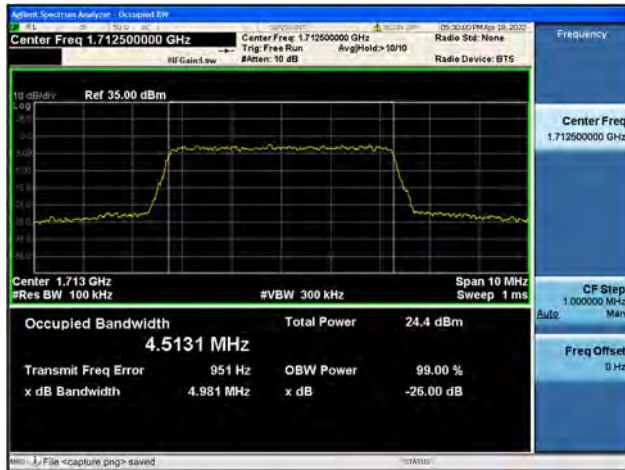
Band4 / 5MHz / Low CH / QPSK



Band4 / 5MHz / Low CH / 16QAM



Band4 / 5MHz / Low CH / 64QAM



Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / Mid CH / 64QAM





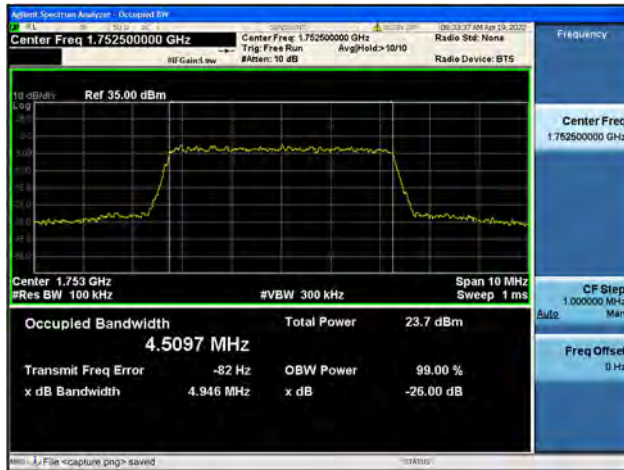
Band4 / 5MHz / High CH / QPSK



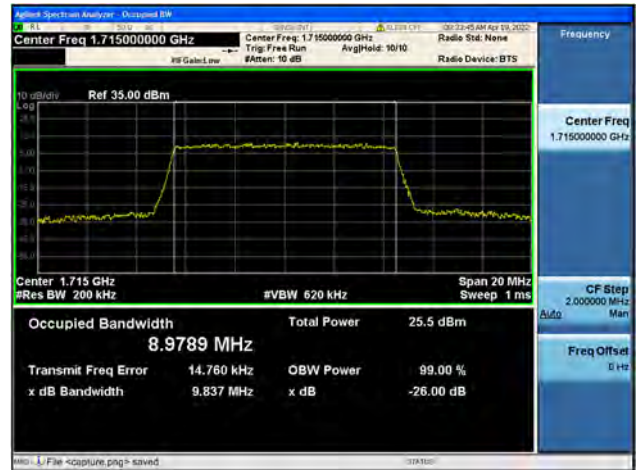
Band4 / 5MHz / High CH / 16QAM



Band4 / 5MHz / High CH / 64QAM



Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM

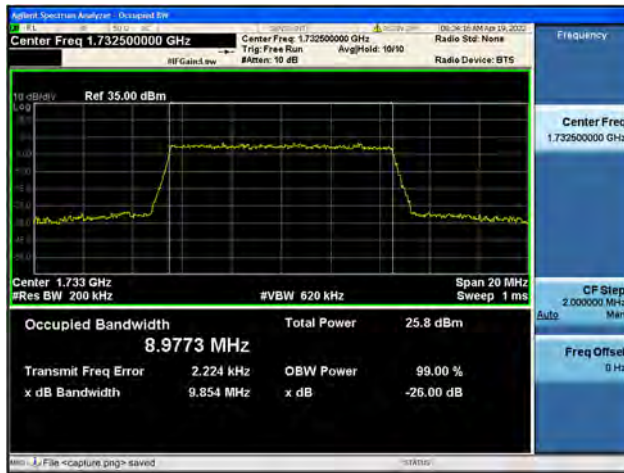


Band4 / 10MHz / Low CH / 64QAM

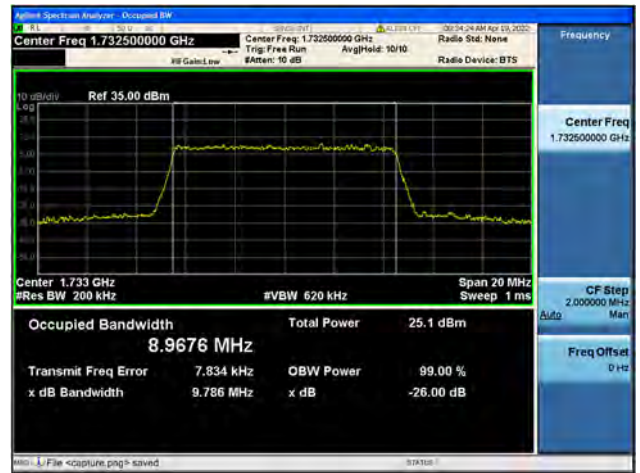




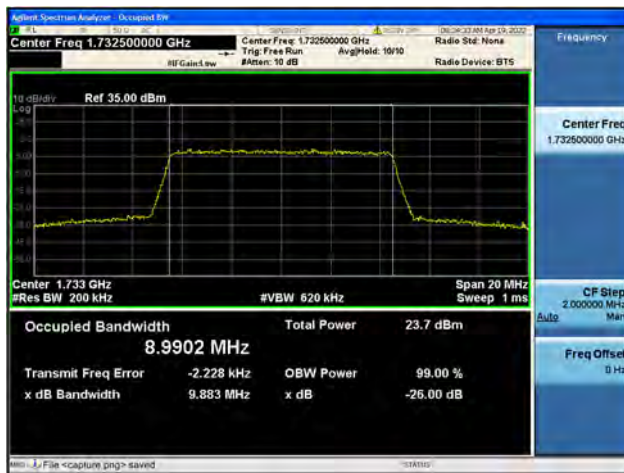
Band4 / 10MHz / Mid CH / QPSK



Band4 / 10MHz / Mid CH / 16QAM



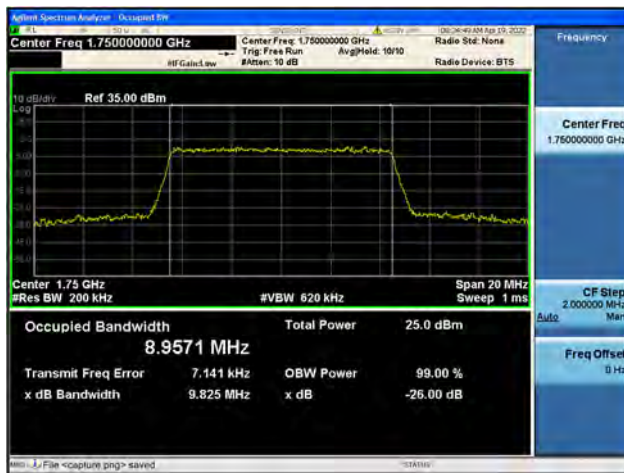
Band4 / 10MHz / Mid CH / 64QAM



Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM

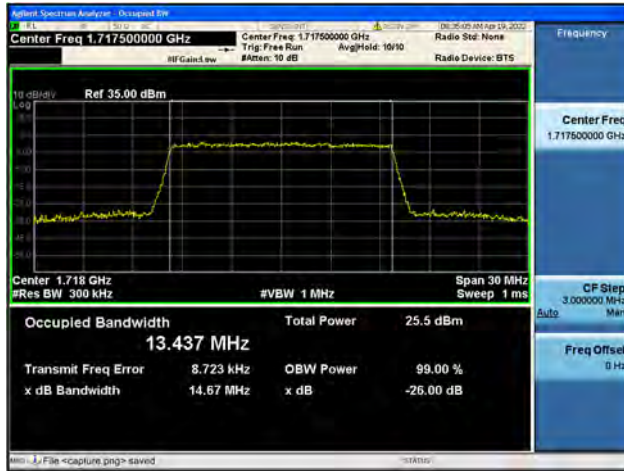


Band4 / 10MHz / High CH / 64QAM





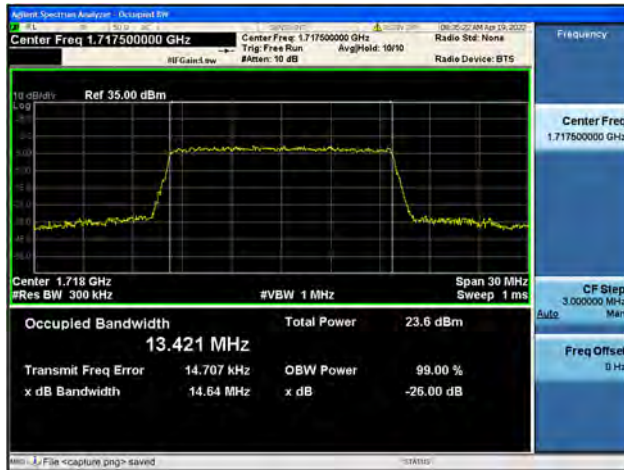
Band4 / 15MHz / Low CH / QPSK



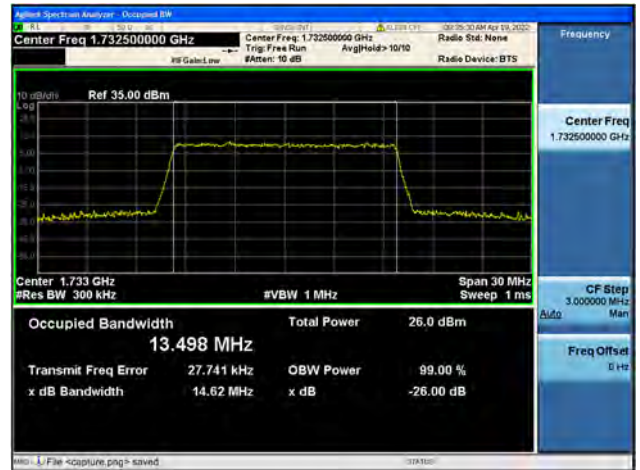
Band4 / 15MHz / Low CH / 16QAM



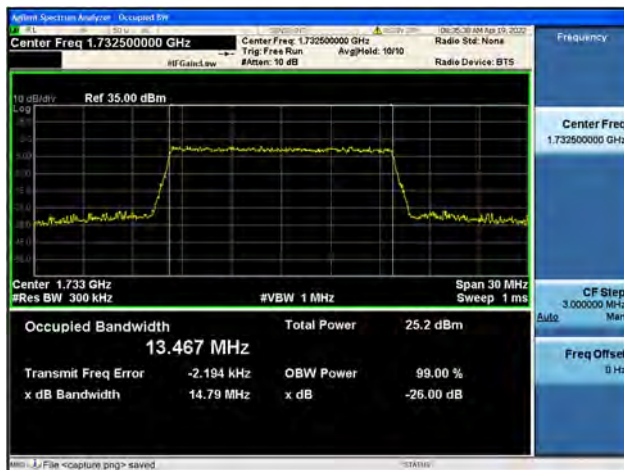
Band4 / 15MHz / Low CH / 64QAM



Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM

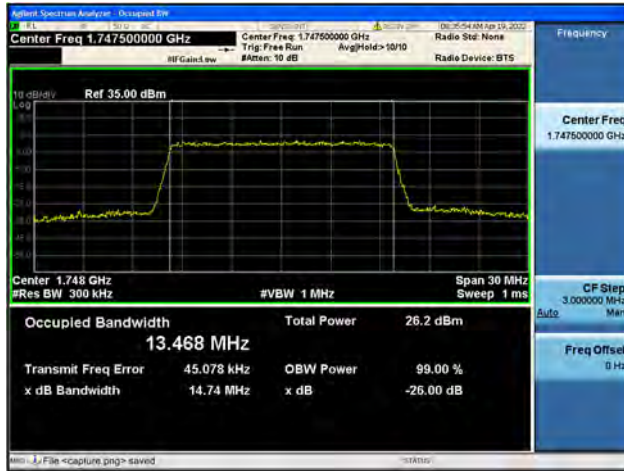


Band4 / 15MHz / Mid CH / 64QAM





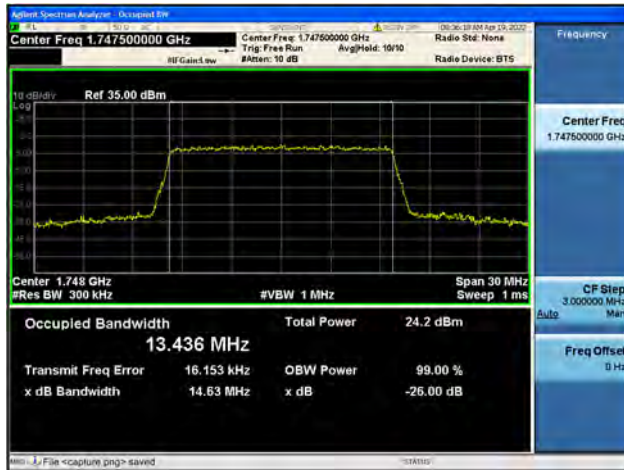
Band4 / 15MHz / High CH / QPSK



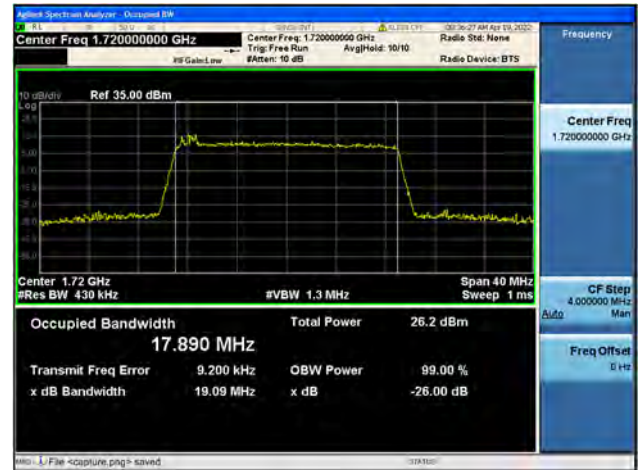
Band4 / 15MHz / High CH / 16QAM



Band4 / 15MHz / High CH / 64QAM



Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM



Band4 / 20MHz / Low CH / 64QAM

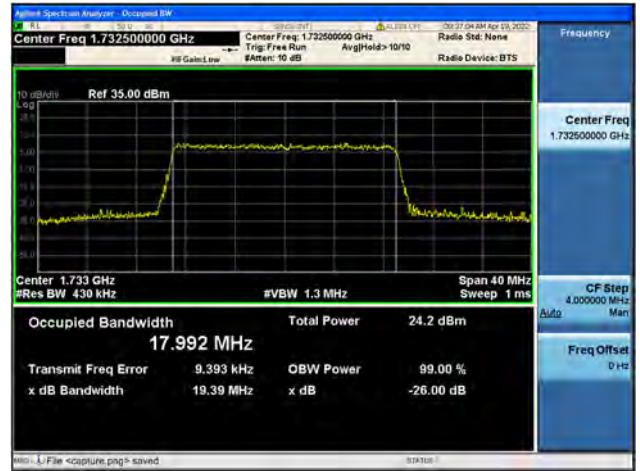




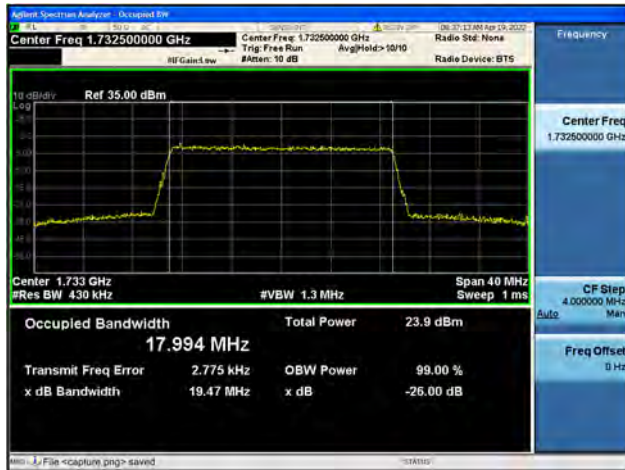
Band4 / 20MHz / Mid CH / QPSK



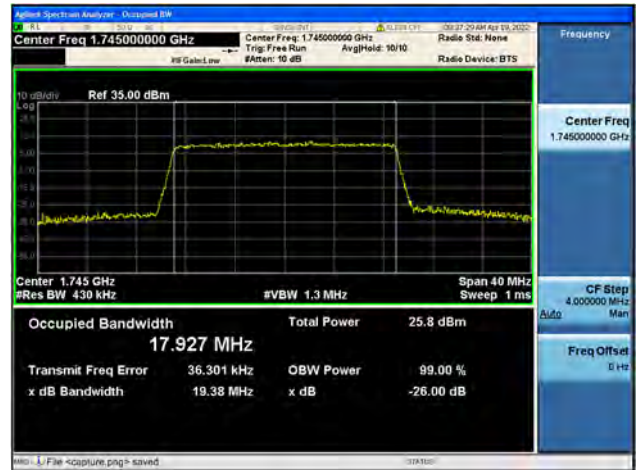
Band4 / 20MHz / Mid CH / 16QAM



Band4 / 20MHz / Mid CH / 64QAM



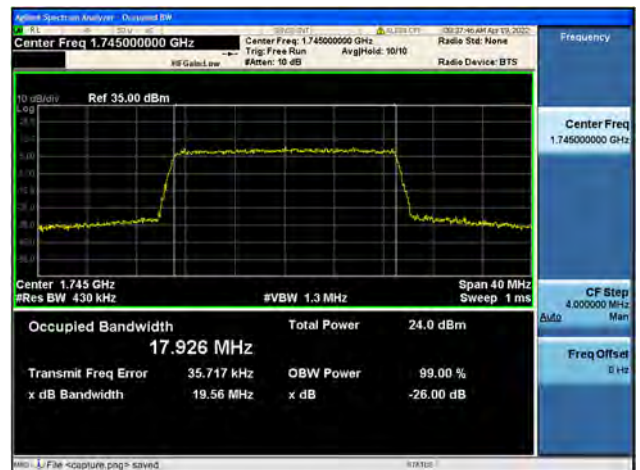
Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM

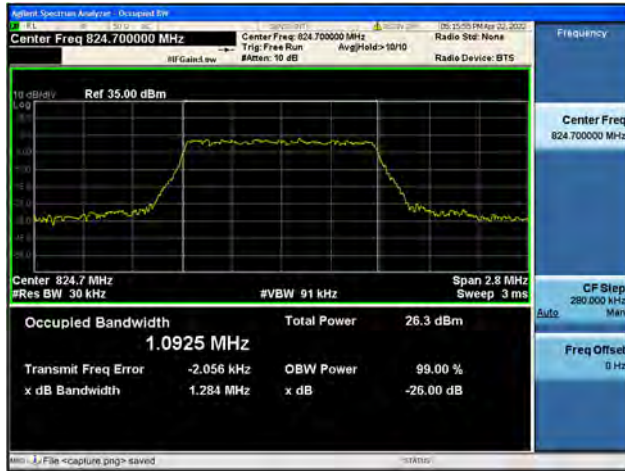


Band4 / 20MHz / High CH / 64QAM

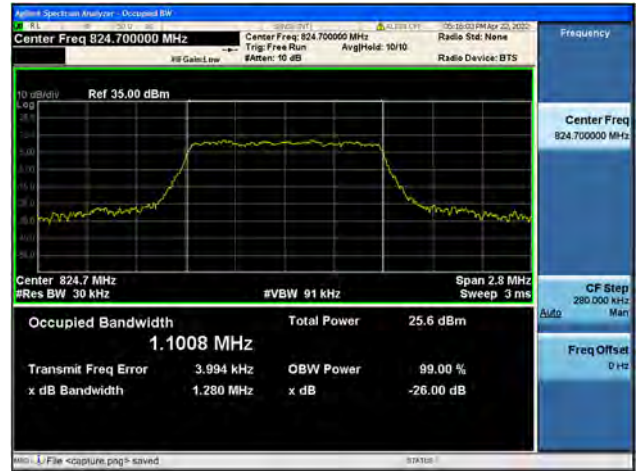




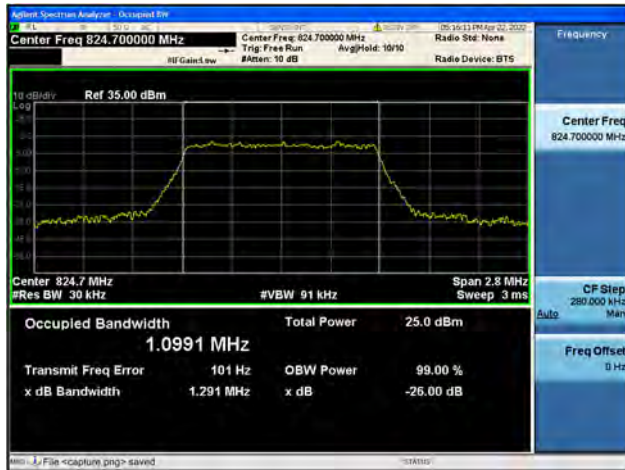
Band5 / 1.4MHz / Low CH / QPSK



Band5 / 1.4MHz / Low CH / 16QAM



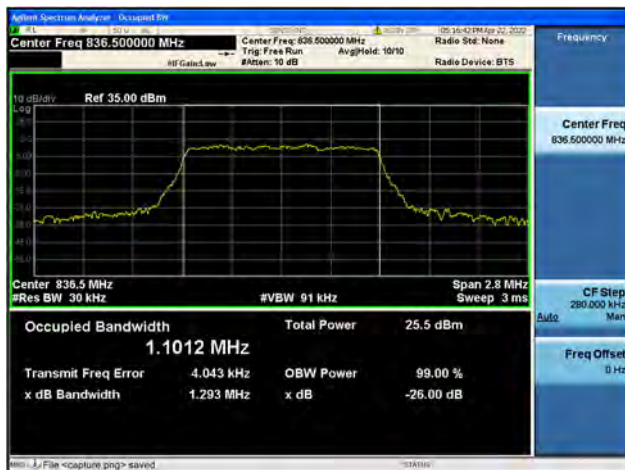
Band5 / 1.4MHz / Low CH / 64QAM



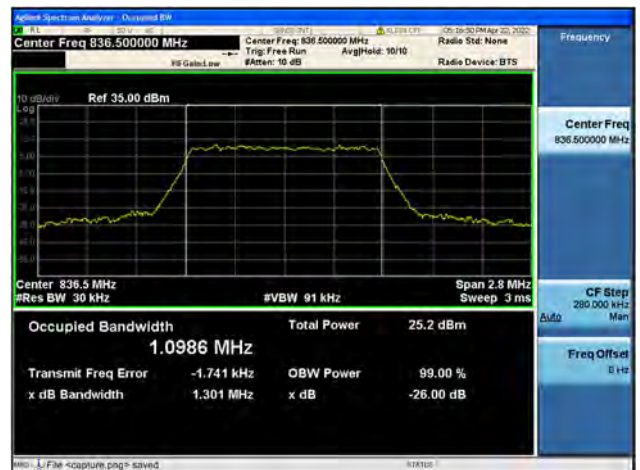
Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM



Band5 / 1.4MHz / Mid CH / 64QAM

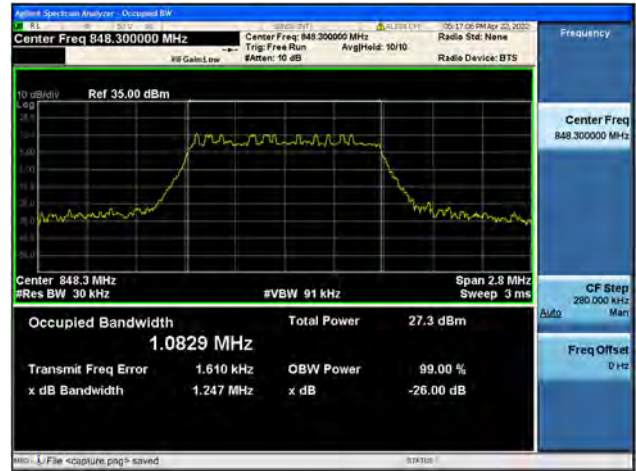




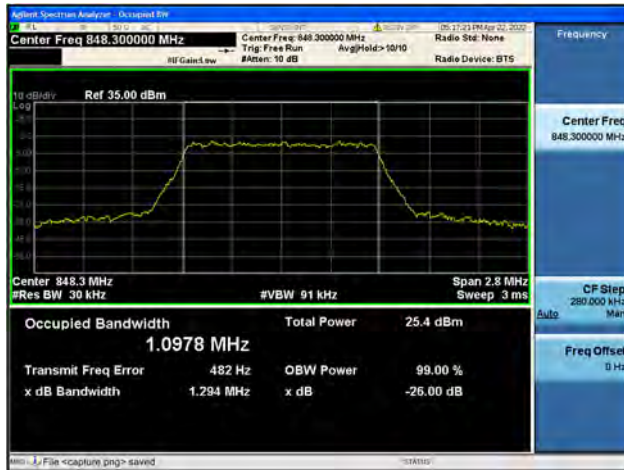
Band5 / 1.4MHz / High CH / QPSK



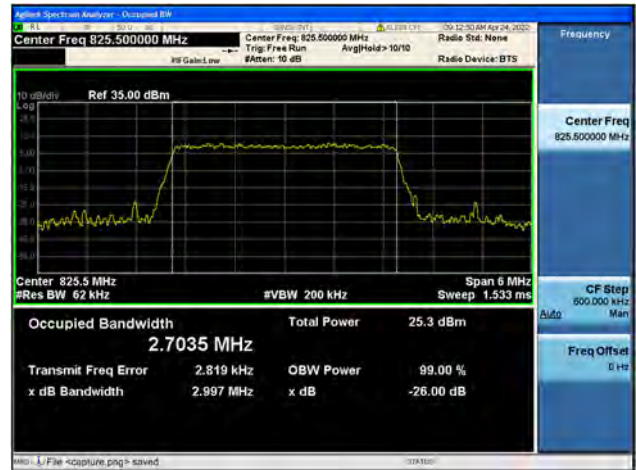
Band5 / 1.4MHz / High CH / 16QAM



Band5 / 1.4MHz / High CH / 64QAM



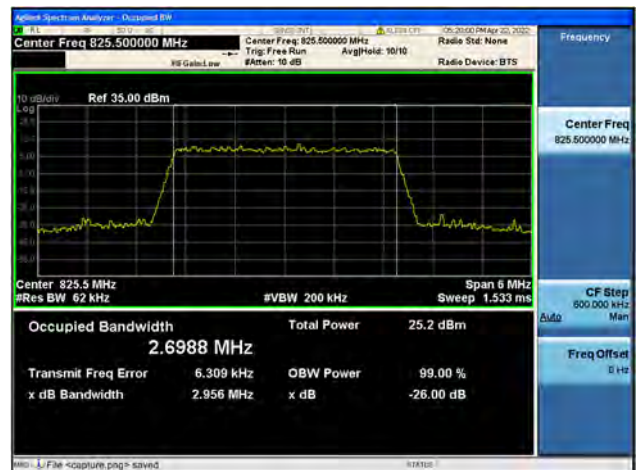
Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM

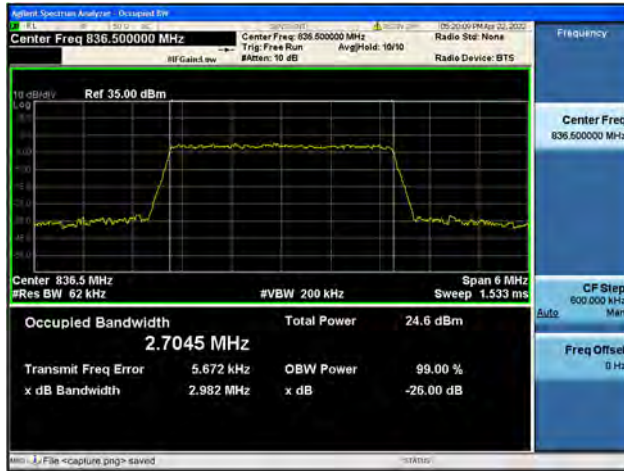


Band5 / 3MHz / Low CH / 64QAM





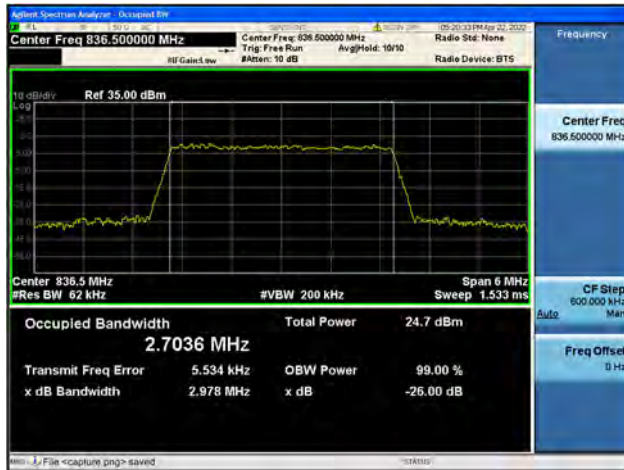
Band5 / 3MHz / Mid CH / QPSK



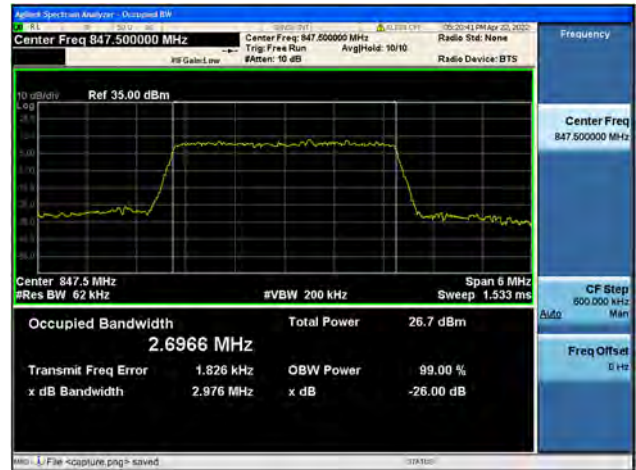
Band5 / 3MHz / Mid CH / 16QAM



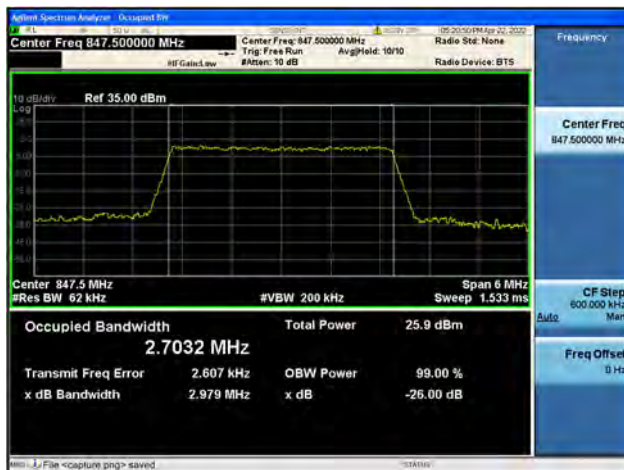
Band5 / 3MHz / Mid CH / 64QAM



Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM

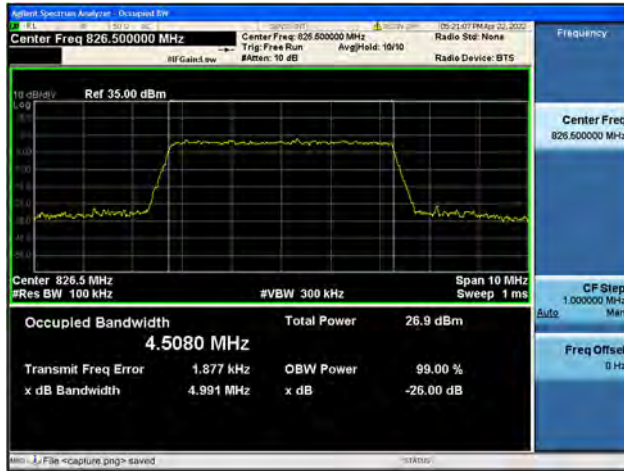


Band5 / 3MHz / High CH / 64QAM

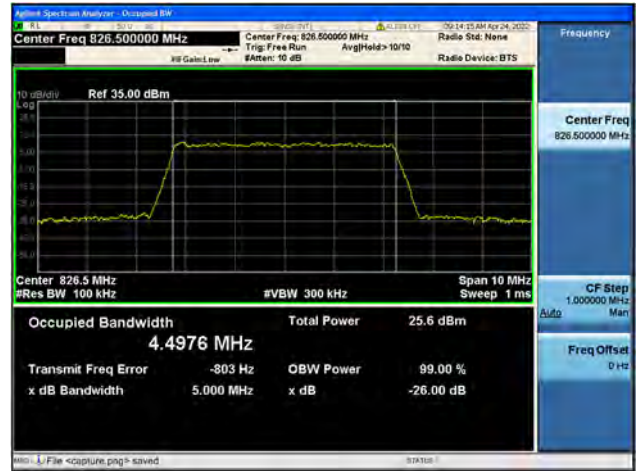




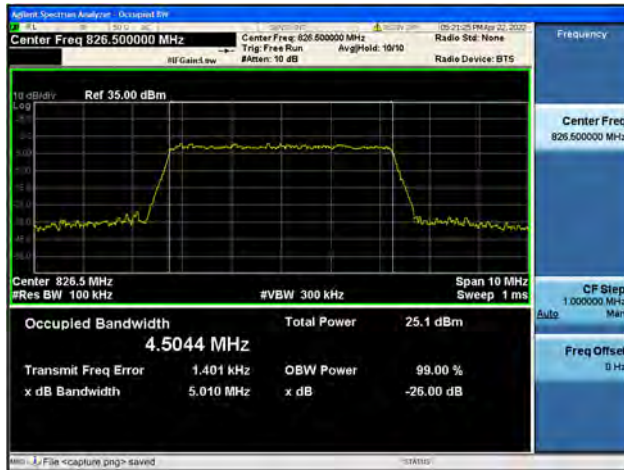
Band5 / 5MHz / Low CH / QPSK



Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Low CH / 64QAM



Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM



Band5 / 5MHz / Mid CH / 64QAM

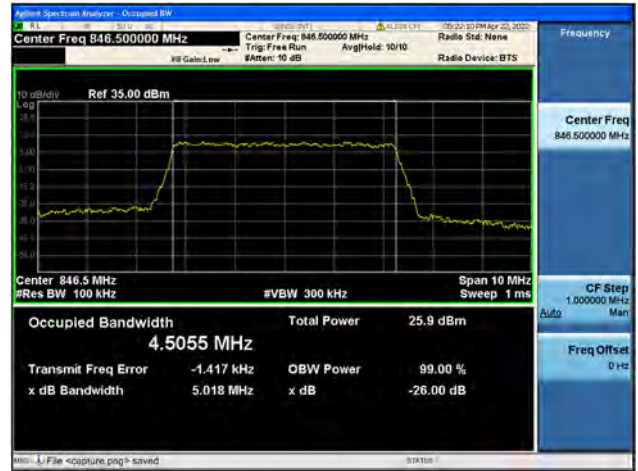




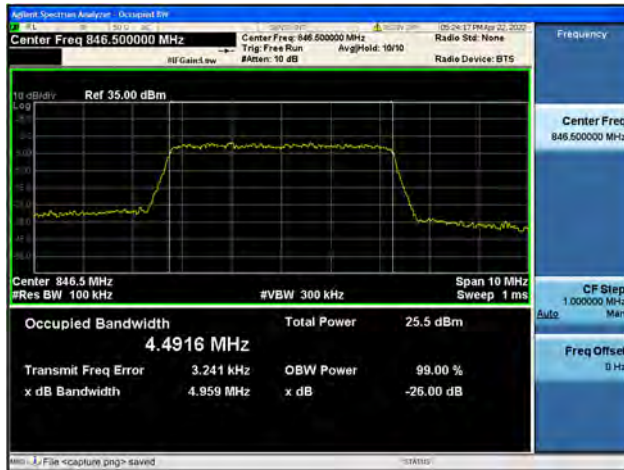
Band5 / 5MHz / High CH / QPSK



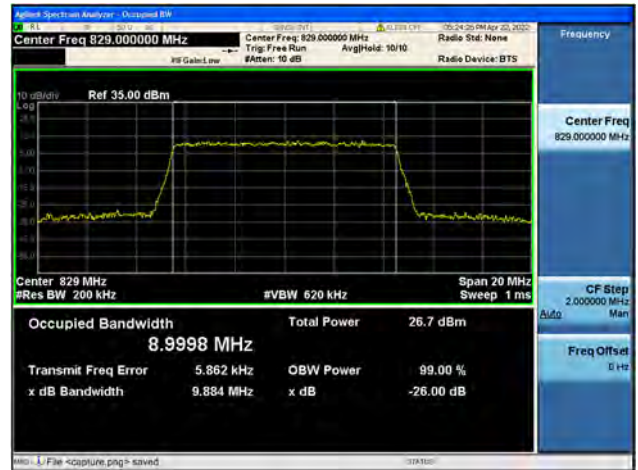
Band5 / 5MHz / High CH / 16QAM



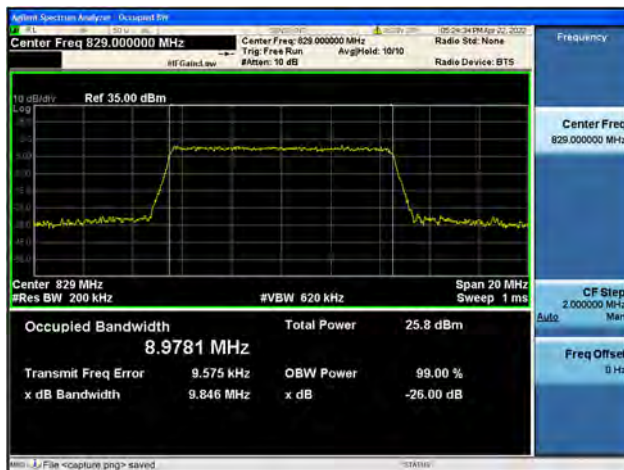
Band5 / 5MHz / High CH / 64QAM



Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM



Band5 / 10MHz / Low CH / 64QAM





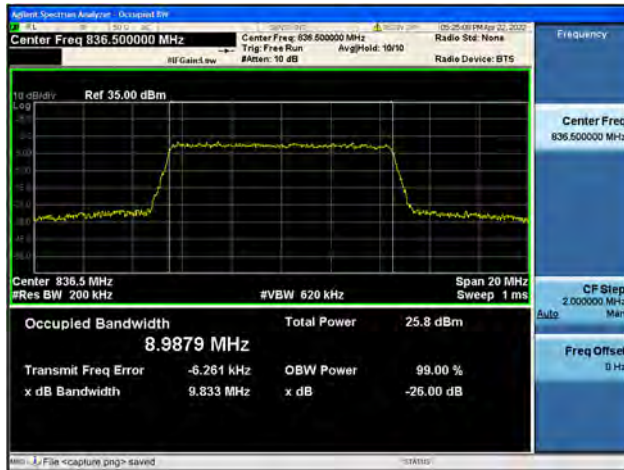
Band5 / 10MHz / Mid CH / QPSK



Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / Mid CH / 64QAM



Band5 / 10MHz / High CH / QPSK



Band5 / 10MHz / High CH / 16QAM



Band5 / 10MHz / High CH / 64QAM





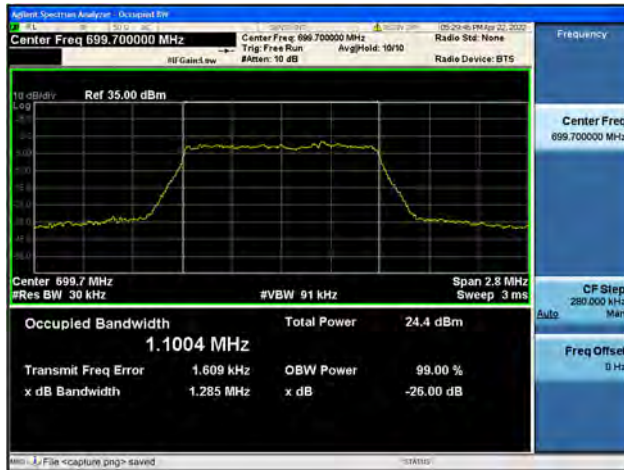
Band12 / 1.4MHz / Low CH / QPSK



Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Low CH / 64QAM



Band12 / 1.4MHz / Mid CH / QPSK

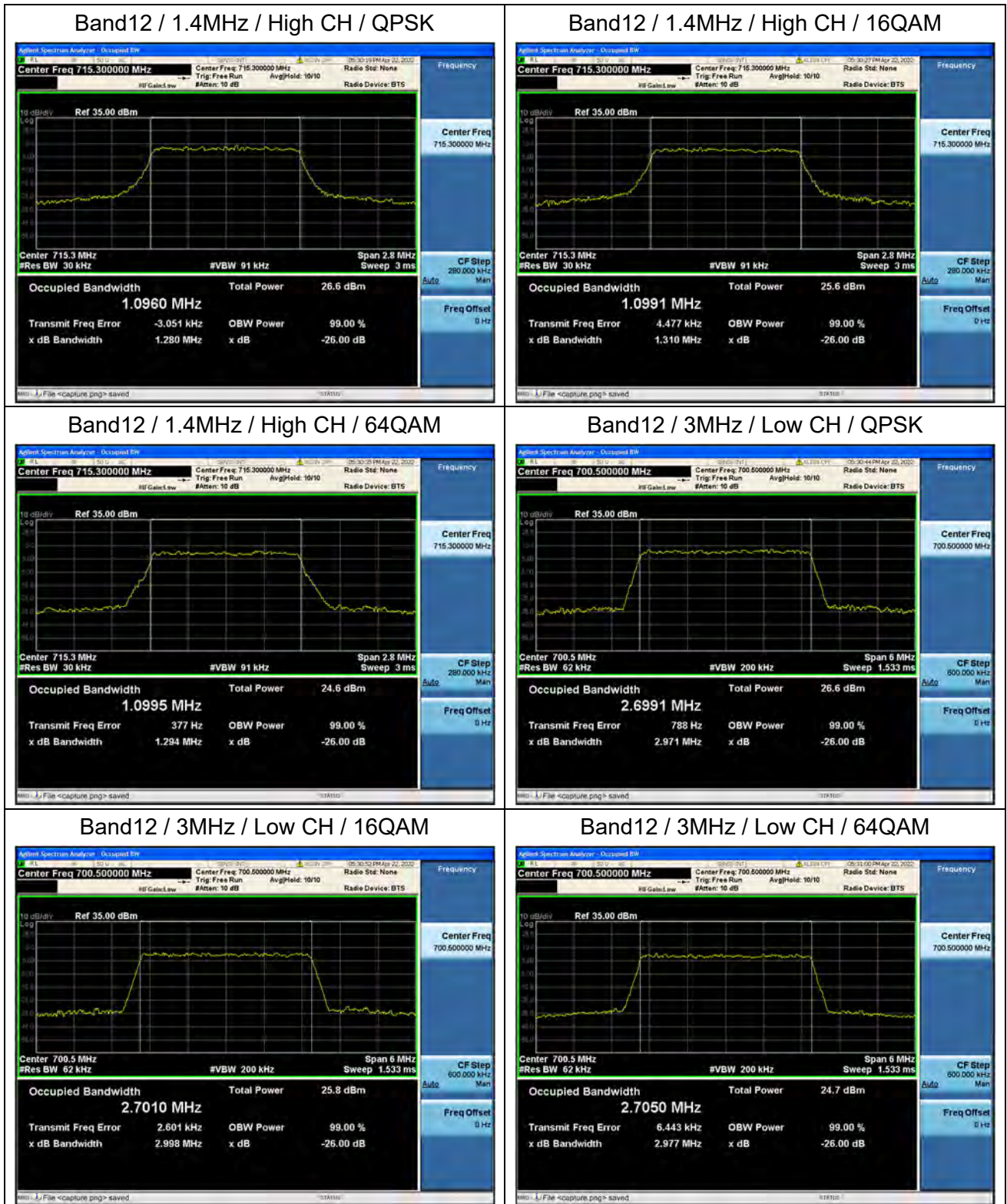


Band12 / 1.4MHz / Mid CH / 16QAM



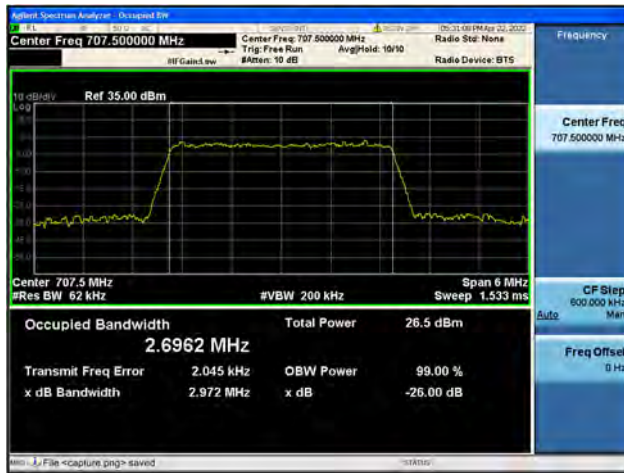
Band12 / 1.4MHz / Mid CH / 64QAM



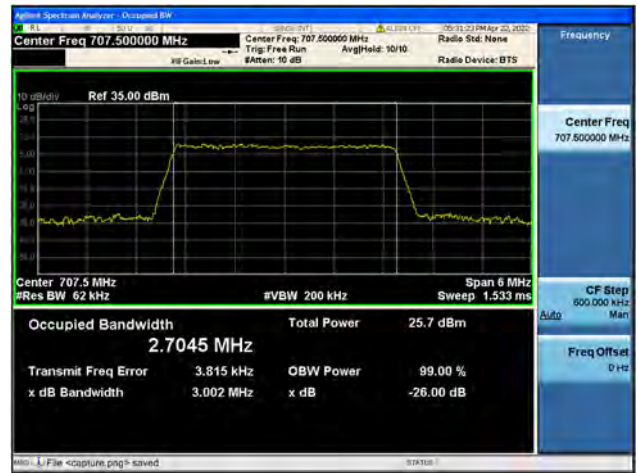




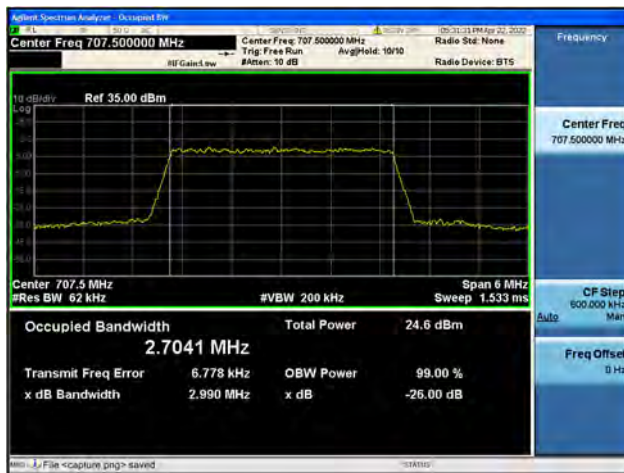
Band12 / 3MHz / Mid CH / QPSK



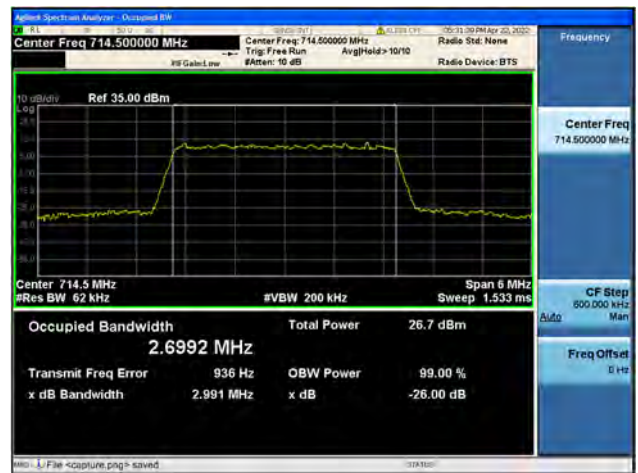
Band12 / 3MHz / Mid CH / 16QAM



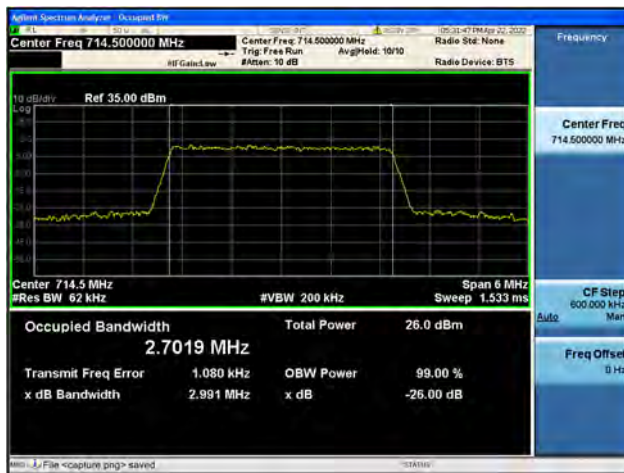
Band12 / 3MHz / Mid CH / 64QAM



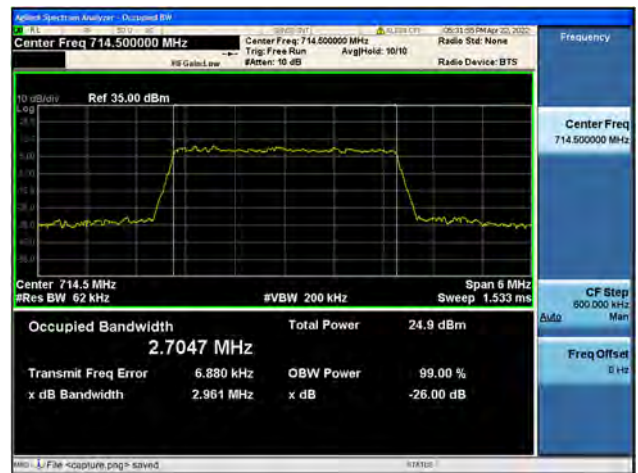
Band12 / 3MHz / High CH / QPSK



Band12 / 3MHz / High CH / 16QAM

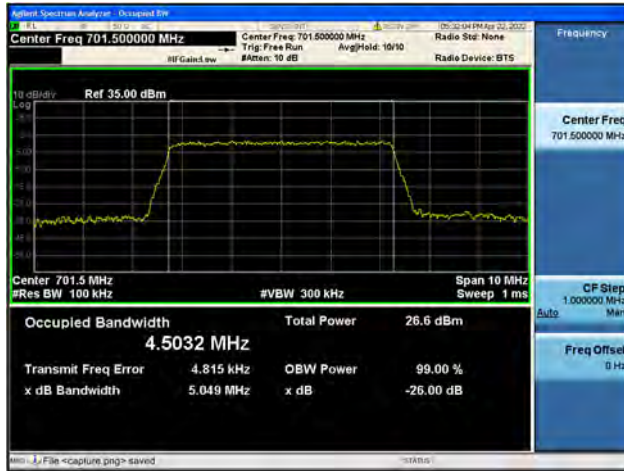


Band12 / 3MHz / High CH / 64QAM

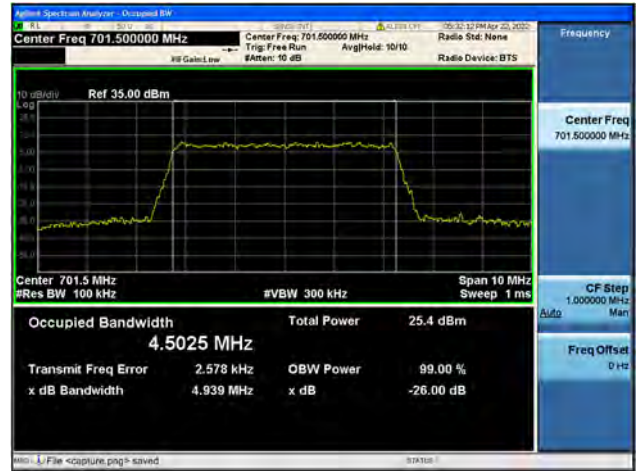




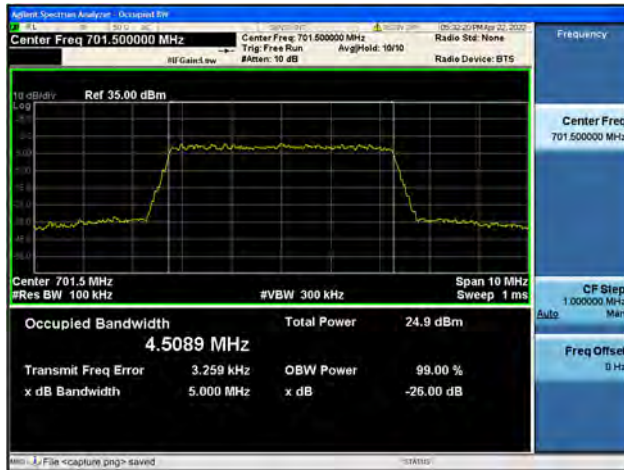
Band12 / 5MHz / Low CH / QPSK



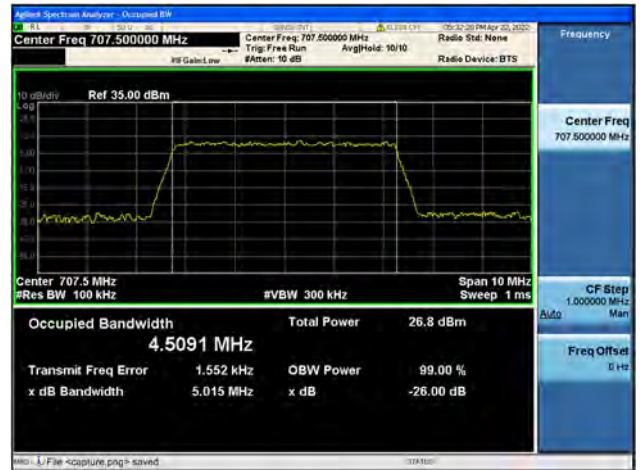
Band12 / 5MHz / Low CH / 16QAM



Band12 / 5MHz / Low CH / 64QAM



Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM

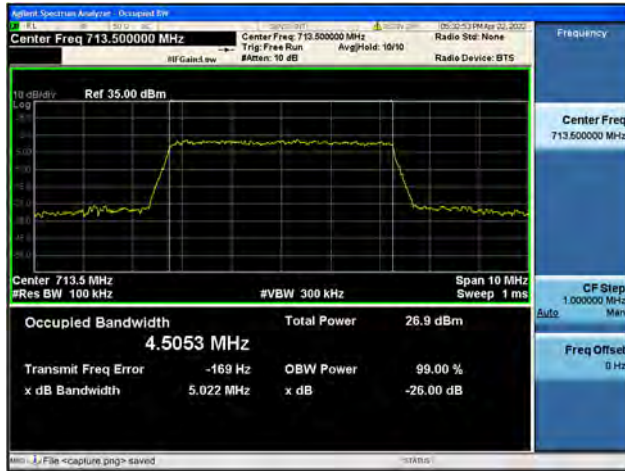


Band12 / 5MHz / Mid CH / 64QAM





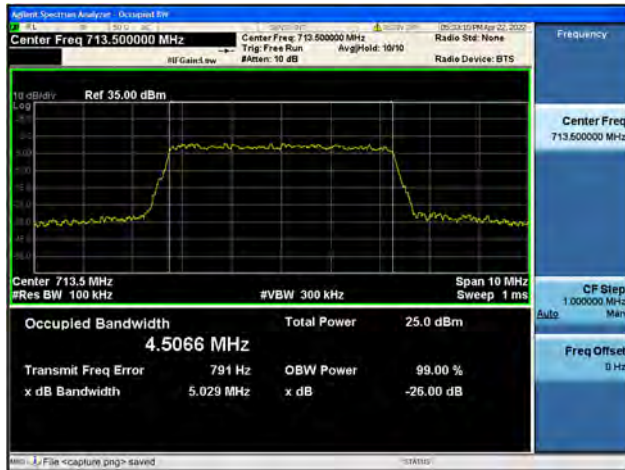
Band12 / 5MHz / High CH / QPSK



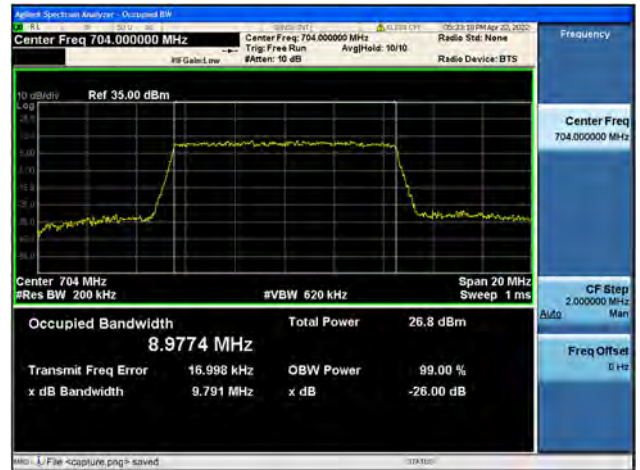
Band12 / 5MHz / High CH / 16QAM



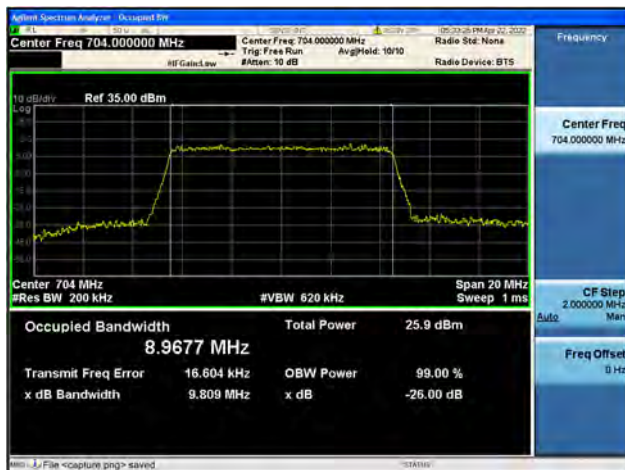
Band12 / 5MHz / High CH / 64QAM



Band12 / 10MHz / Low CH / QPSK



Band12 / 10MHz / Low CH / 16QAM



Band12 / 10MHz / Low CH / 64QAM

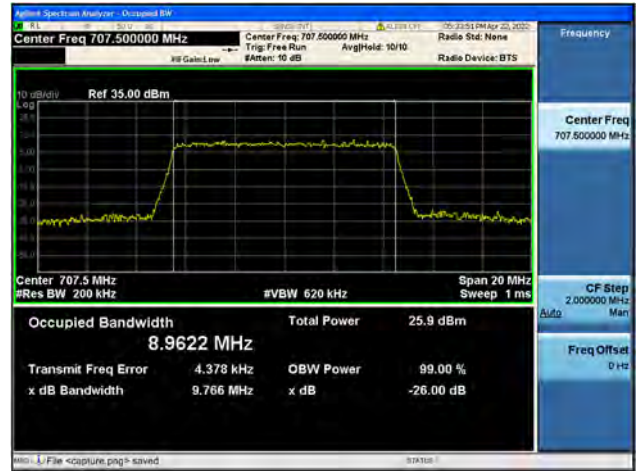




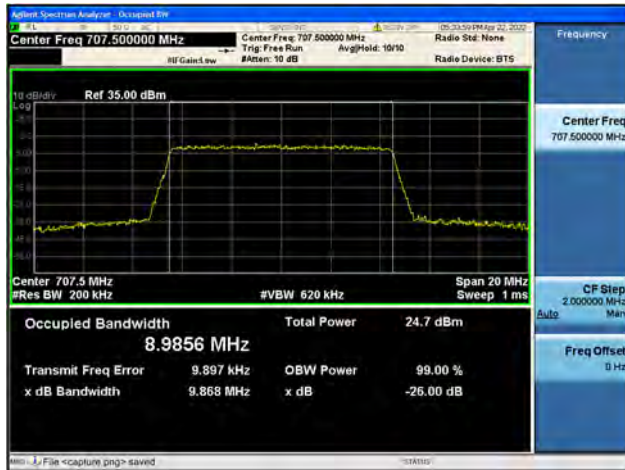
Band12 / 10MHz / Mid CH / QPSK



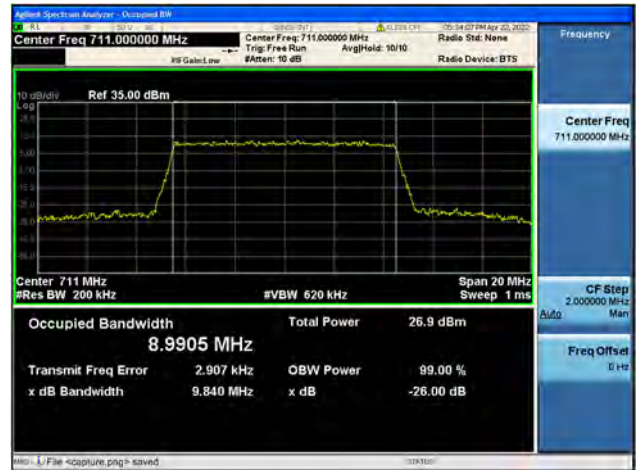
Band12 / 10MHz / Mid CH / 16QAM



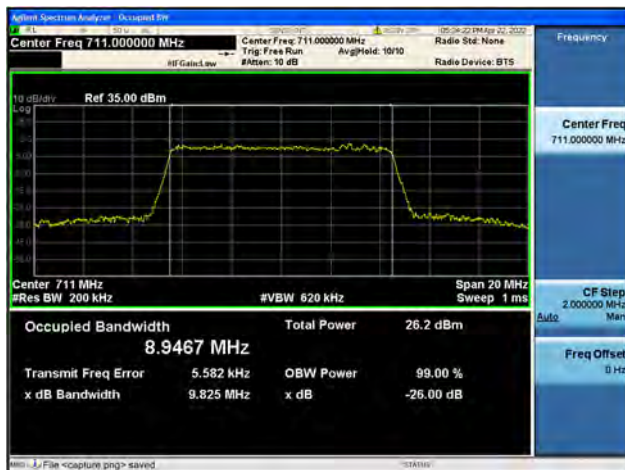
Band12 / 10MHz / Mid CH / 64QAM



Band12 / 10MHz / High CH / QPSK



Band12 / 10MHz / High CH / 16QAM

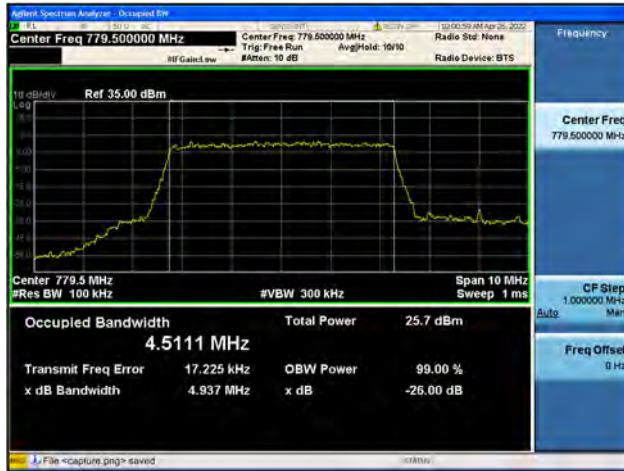


Band12 / 10MHz / High CH / 64QAM

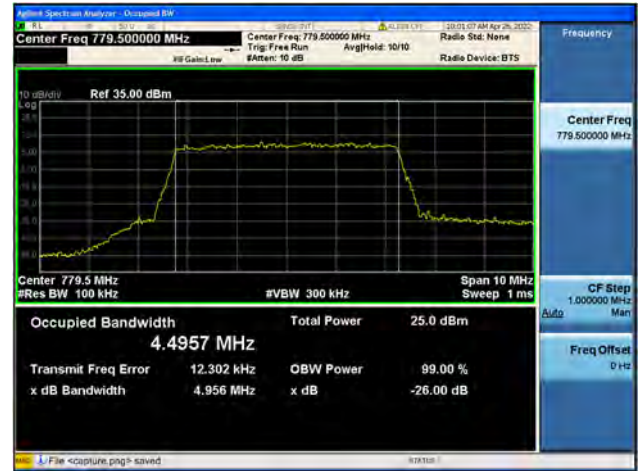




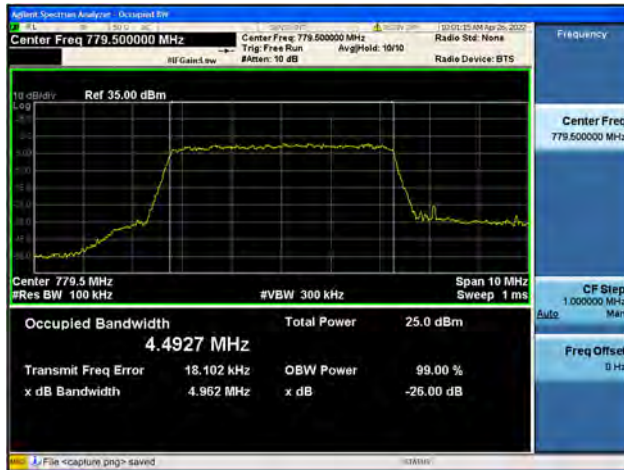
Band13 / 5MHz / Low CH / QPSK



Band13 / 5MHz / Low CH / 16QAM



Band13 / 5MHz / Low CH / 64QAM



Band13 / 5MHz / Mid CH / QPSK



Band13 / 5MHz / Mid CH / 16QAM

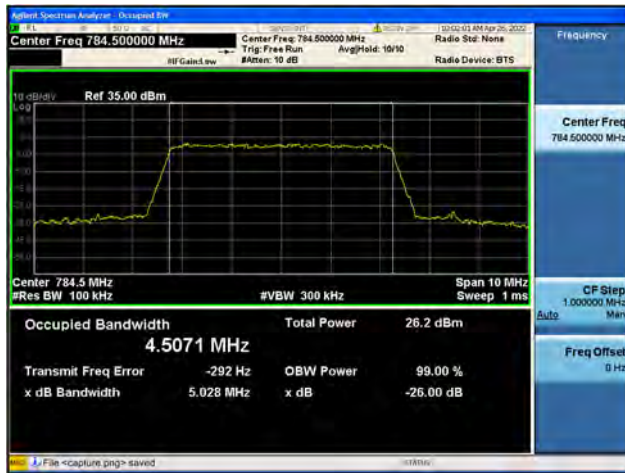


Band13 / 5MHz / Mid CH / 64QAM

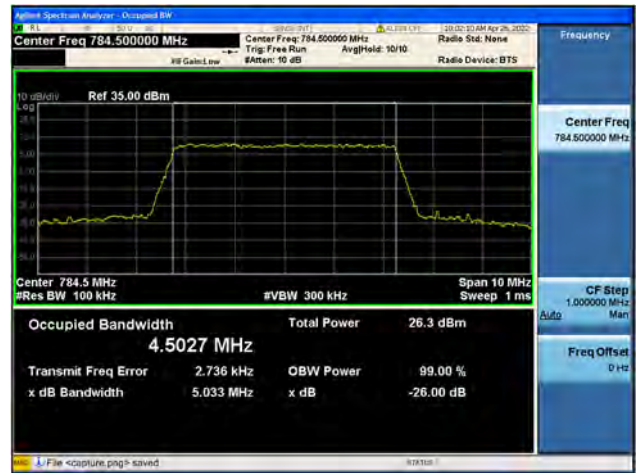




Band13 / 5MHz / High CH / QPSK



Band13 / 5MHz / High CH / 16QAM



Band13 / 5MHz / High CH / 64QAM



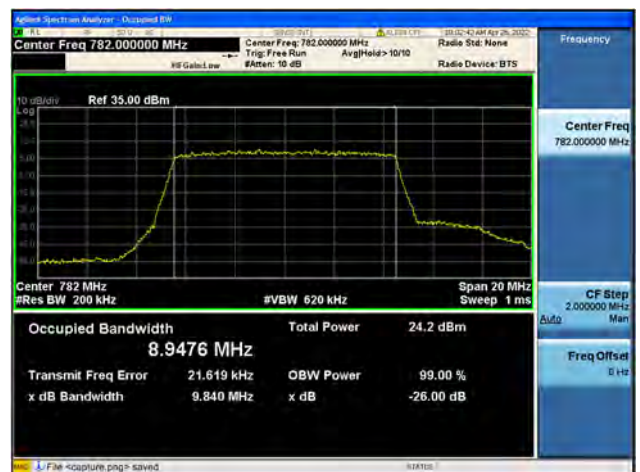
Band13 / 10MHz / Low CH / QPSK



Band13 / 10MHz / Low CH / 16QAM



Band13 / 10MHz / Low CH / 64QAM





Band13 / 10MHz / Mid CH / QPSK



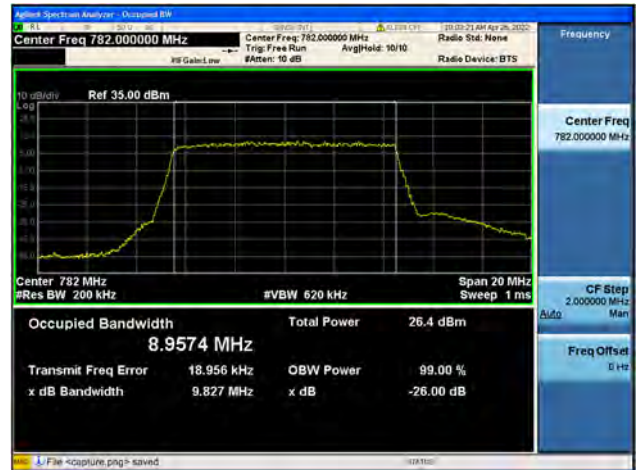
Band13 / 10MHz / Mid CH / 16QAM



Band13 / 10MHz / Mid CH / 64QAM



Band13 / 10MHz / High CH / QPSK

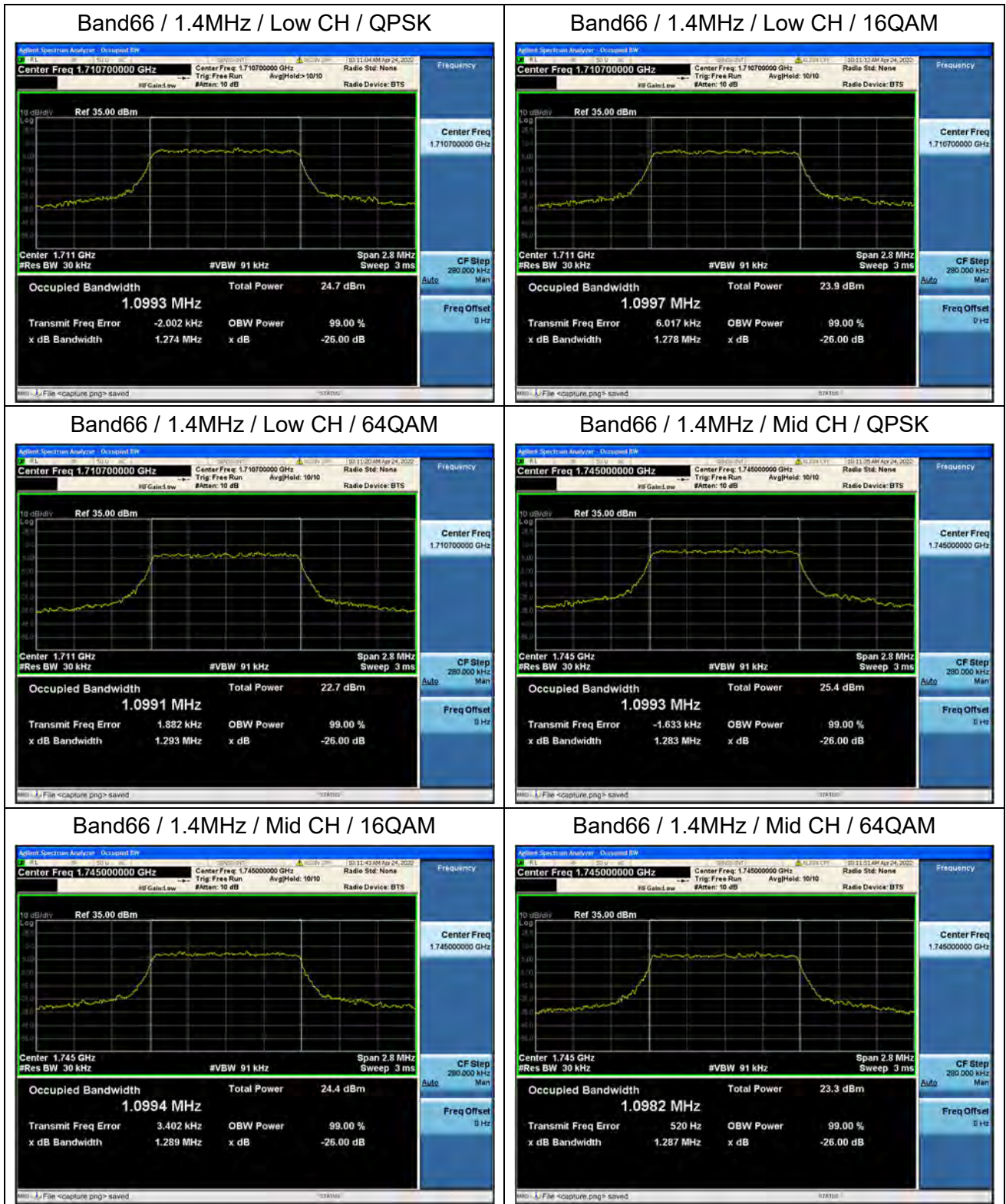


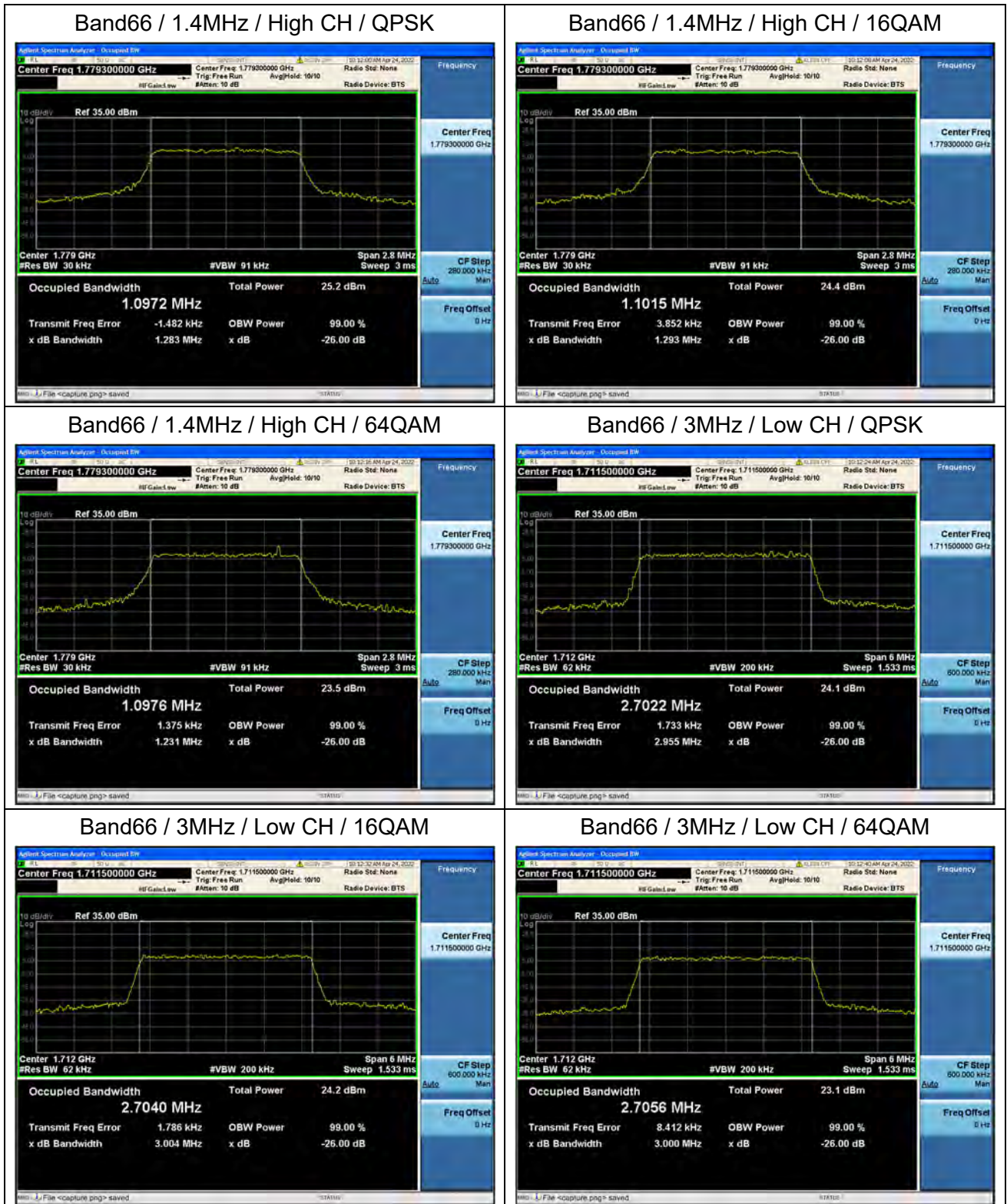
Band13 / 10MHz / High CH / 16QAM



Band13 / 10MHz / High CH / 64QAM





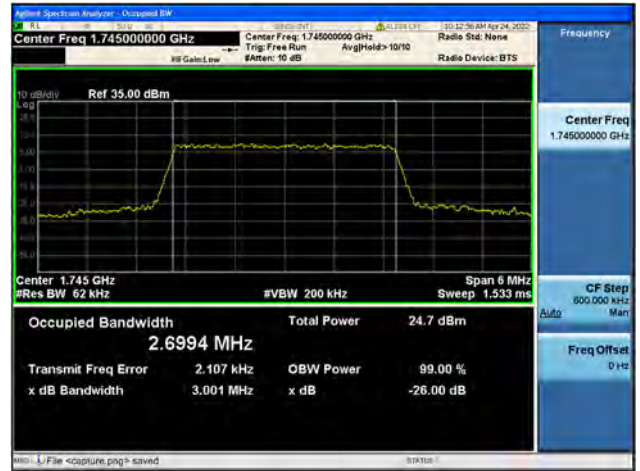




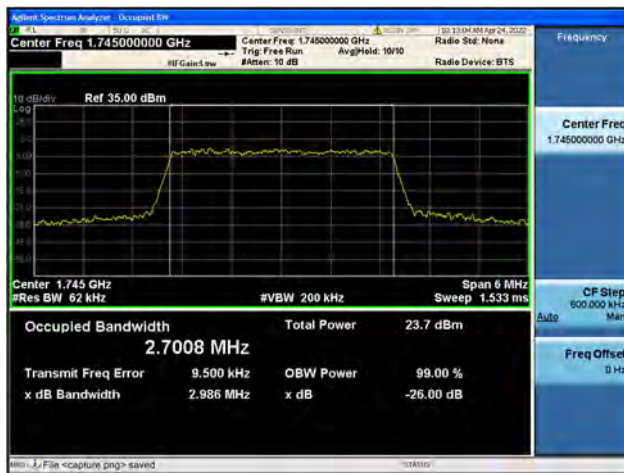
Band66 / 3MHz / Mid CH / QPSK



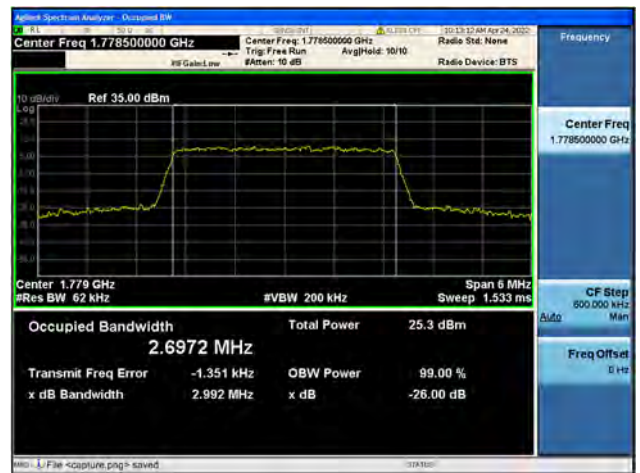
Band66 / 3MHz / Mid CH / 16QAM



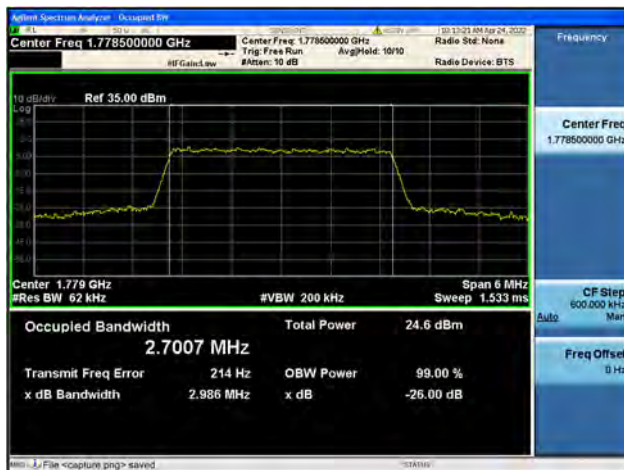
Band66 / 3MHz / Mid CH / 64QAM



Band66 / 3MHz / High CH / QPSK



Band66 / 3MHz / High CH / 16QAM

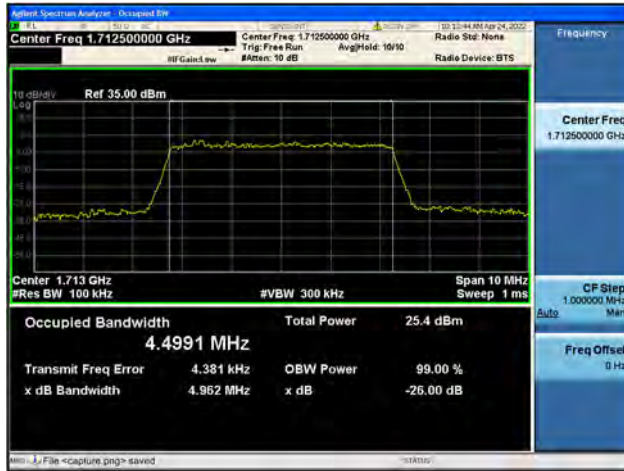


Band66 / 3MHz / High CH / 64QAM





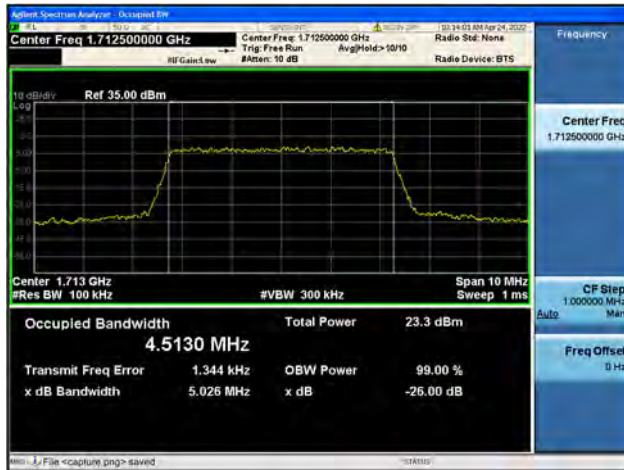
Band66 / 5MHz / Low CH / QPSK



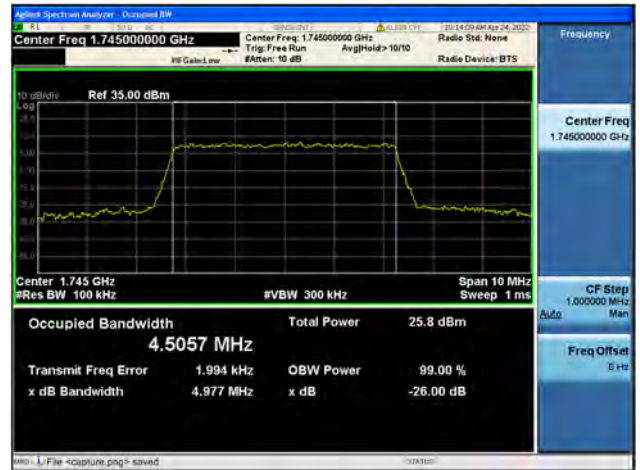
Band66 / 5MHz / Low CH / 16QAM



Band66 / 5MHz / Low CH / 64QAM



Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM



Band66 / 5MHz / Mid CH / 64QAM

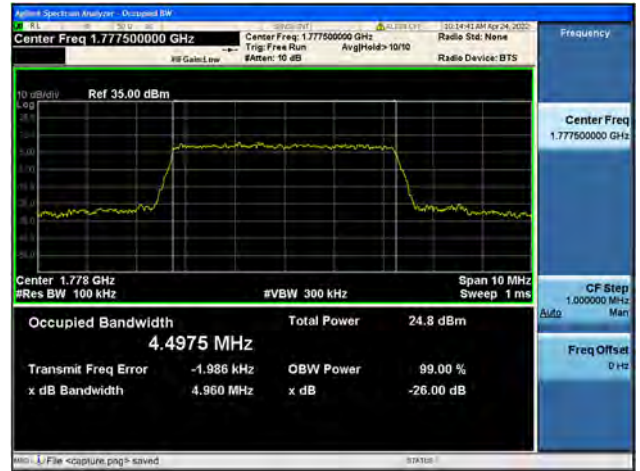




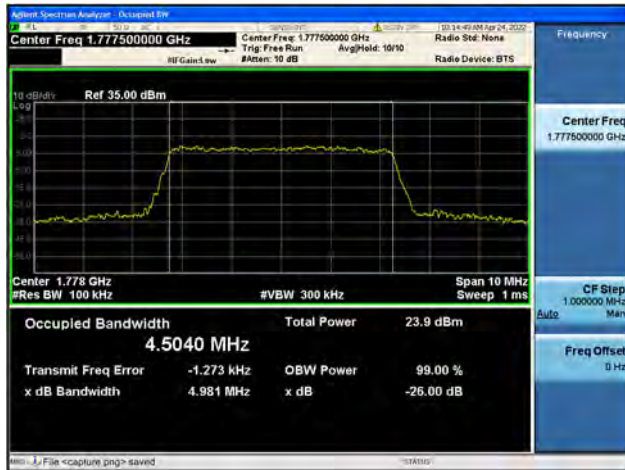
Band66 / 5MHz / High CH / QPSK



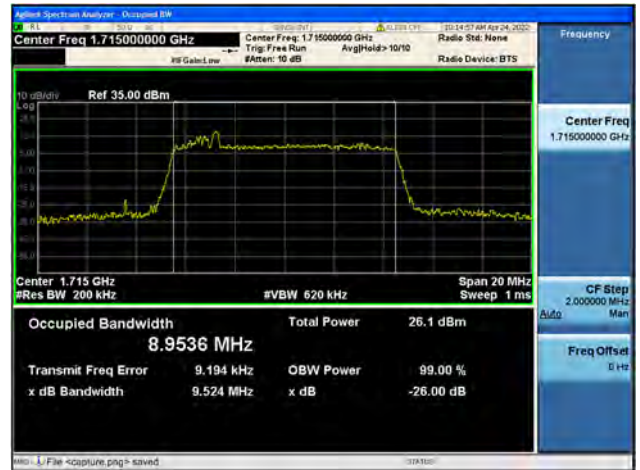
Band66 / 5MHz / High CH / 16QAM



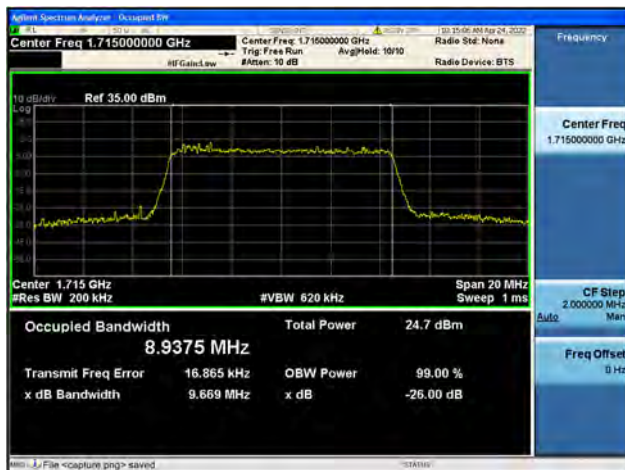
Band66 / 5MHz / High CH / 64QAM



Band66 / 10MHz / Low CH / QPSK



Band66 / 10MHz / Low CH / 16QAM



Band66 / 10MHz / Low CH / 64QAM





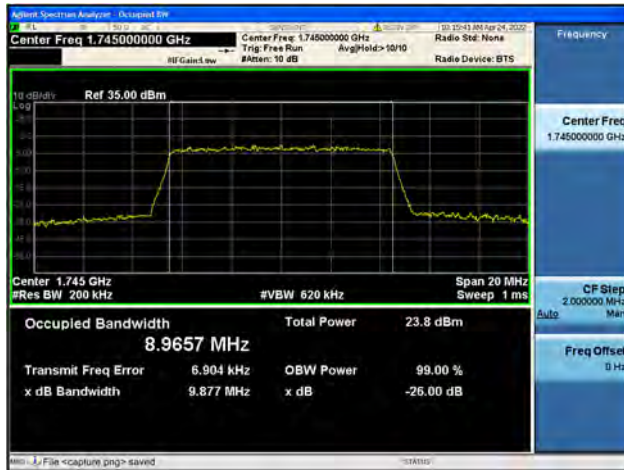
Band66 / 10MHz / Mid CH / QPSK



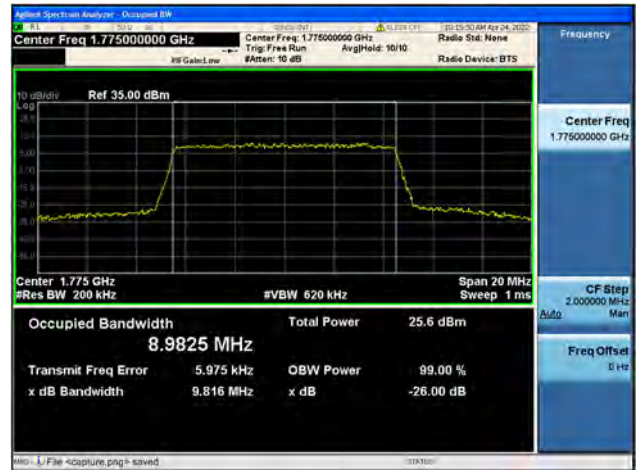
Band66 / 10MHz / Mid CH / 16QAM



Band66 / 10MHz / Mid CH / 64QAM



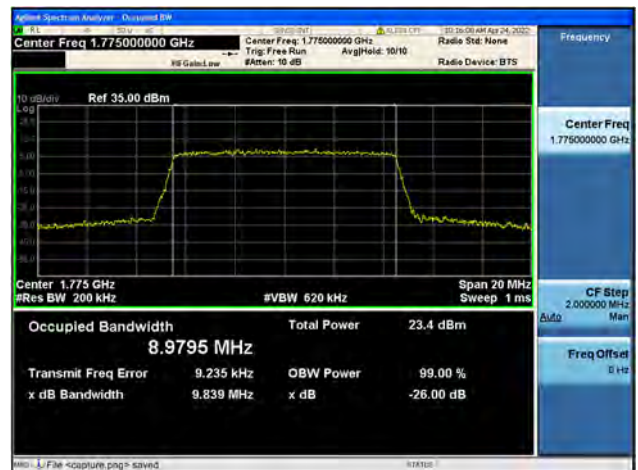
Band66 / 10MHz / High CH / QPSK



Band66 / 10MHz / High CH / 16QAM

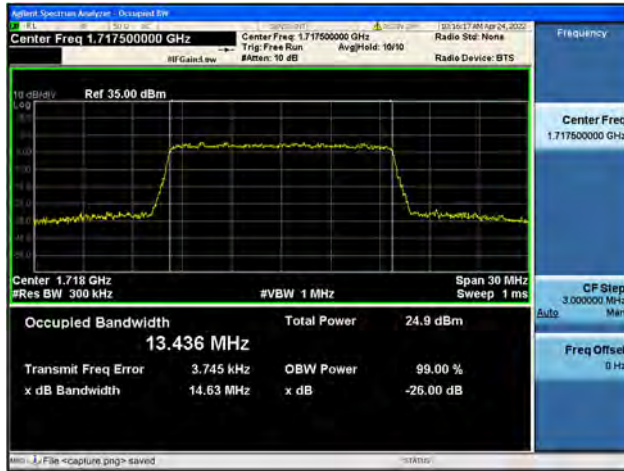


Band66 / 10MHz / High CH / 64QAM

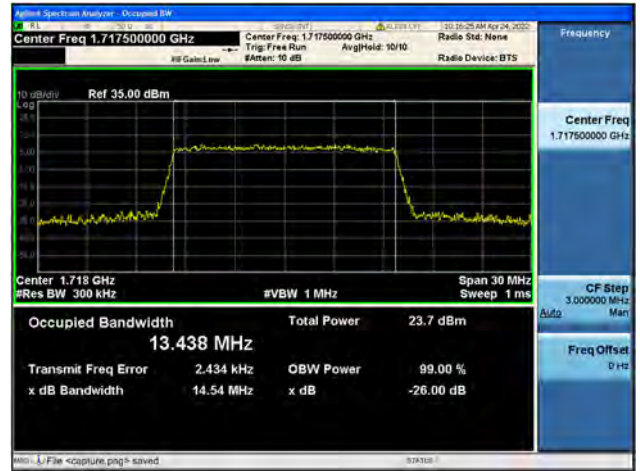




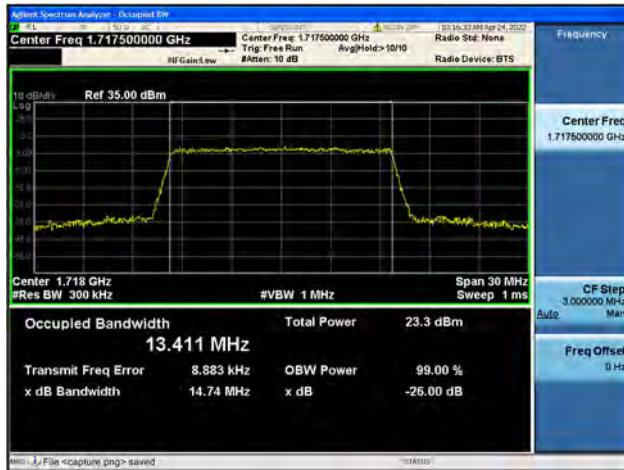
Band66 / 15MHz / Low CH / QPSK



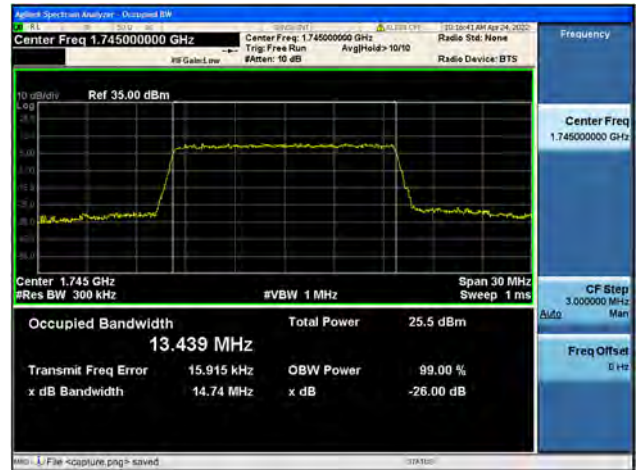
Band66 / 15MHz / Low CH / 16QAM



Band66 / 15MHz / Low CH / 64QAM



Band66 / 15MHz / Mid CH / QPSK

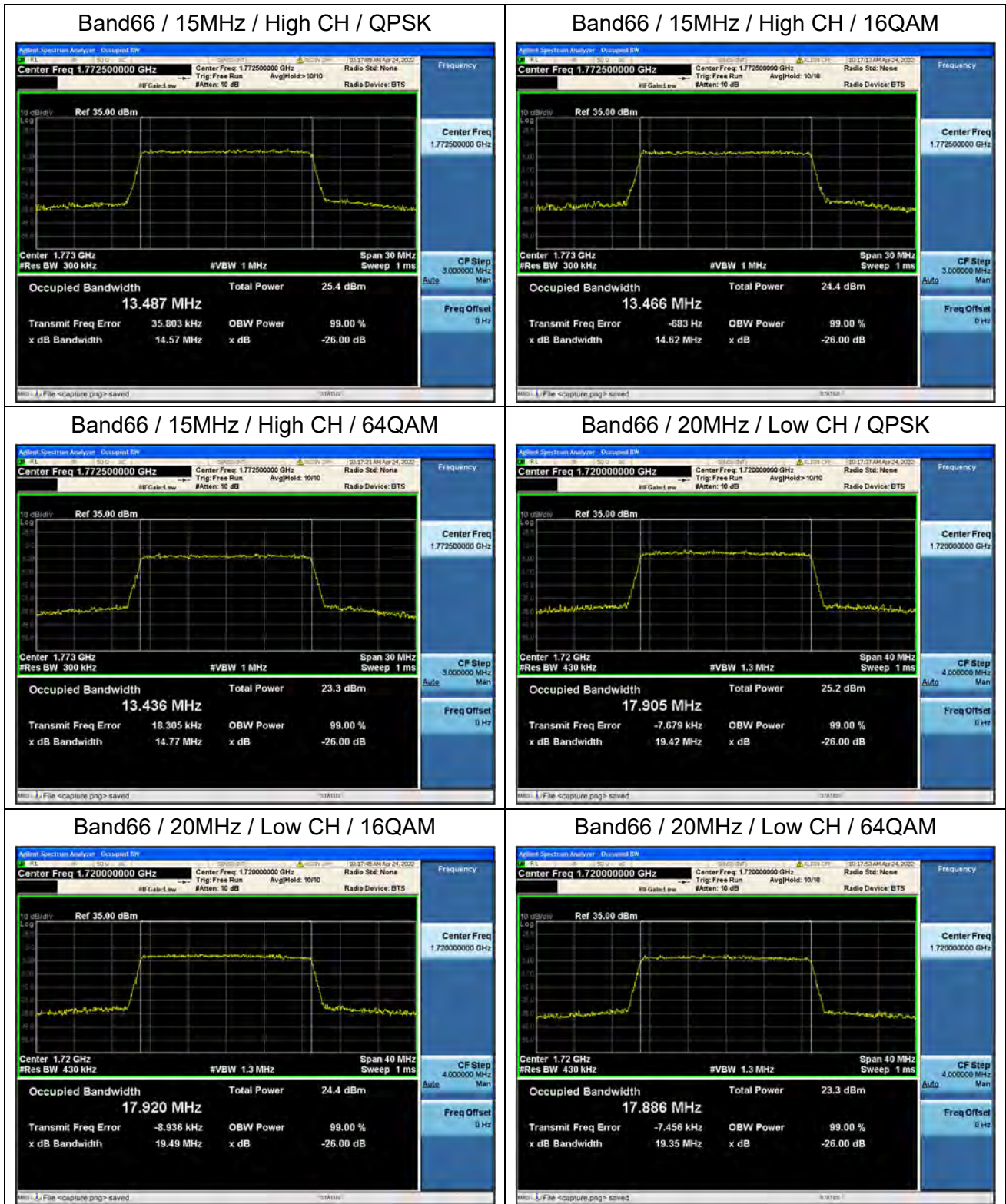


Band66 / 15MHz / Mid CH / 16QAM



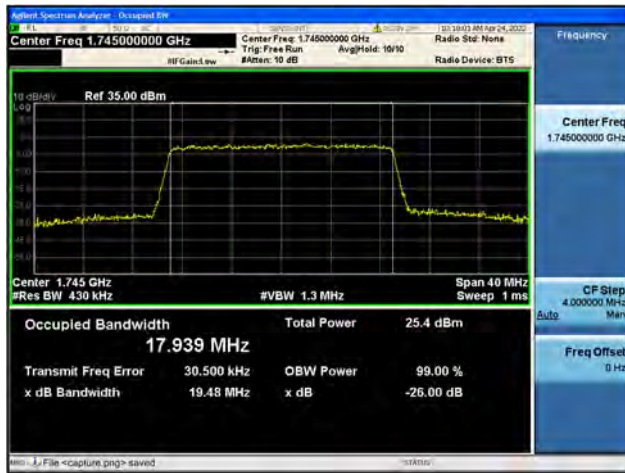
Band66 / 15MHz / Mid CH / 64QAM







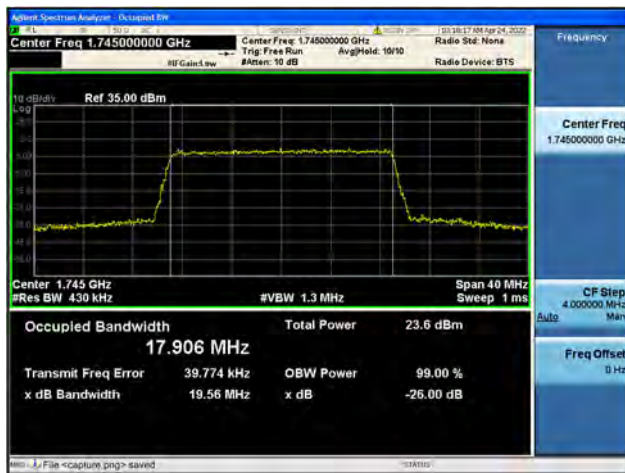
Band66 / 20MHz / Mid CH / QPSK



Band66 / 20MHz / Mid CH / 16QAM



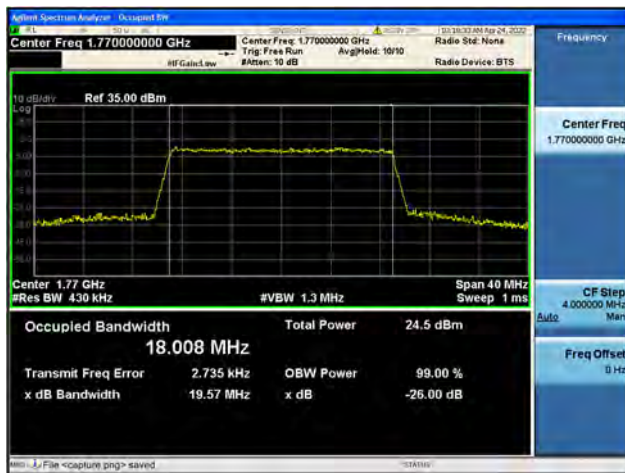
Band66 / 20MHz / Mid CH / 64QAM



Band66 / 20MHz / High CH / QPSK



Band66 / 20MHz / High CH / 16QAM



Band66 / 20MHz / High CH / 64QAM



2.3. Frequency Stability

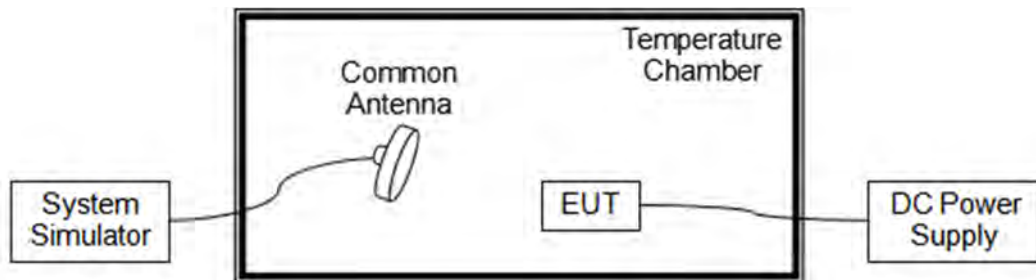
2.3.1. Requirement

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 0°C to 55°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 3.80V, 4.35V and 3.65V, 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	3.80	+20(Ref)	52	0.028	PASS
Normal		0	-40	-0.021	
Normal		+10	38	0.020	
Normal		+20	24	0.013	
Normal		+30	-26	-0.014	
Normal		+40	-35	-0.019	
Normal		+50	-53	-0.028	
Normal		+55	-13	-0.007	
High	4.35	+20	40	0.021	
BATT.ENDPOINT	3.65	+20	-34	-0.018	

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	3.80	+20(Ref)	44	0.025	PASS
Normal		0	19	0.011	
Normal		+10	-45	-0.026	
Normal		+20	-34	-0.020	
Normal		+30	-28	-0.016	
Normal		+40	-28	-0.016	
Normal		+50	45	0.026	
Normal		+55	18	0.010	
High	4.35	+20	45	0.026	
BATT.ENDPOINT	3.65	+20	-46	-0.027	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	33	0.039	PASS
Normal		0	22	0.026	
Normal		+10	-29	-0.035	
Normal		+20	43	0.051	
Normal		+30	54	0.065	
Normal		+40	29	0.035	
Normal		+50	39	0.047	
Normal		+55	45	0.054	
High	4.35	+20	-54	-0.065	
BATT.ENDPOINT	3.65	+20	-20	-0.024	

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	3.80	+20(Ref)	54	0.076	PASS
Normal		0	26	0.037	
Normal		+10	-48	-0.068	
Normal		+20	-38	-0.054	
Normal		+30	45	0.064	
Normal		+40	-20	-0.028	
Normal		+50	44	0.062	
Normal		+55	55	0.078	
High	4.35	+20	29	0.041	
BATT.ENDPOINT	3.65	+20	-38	-0.054	



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	3.80	+20(Ref)	23	0.029	PASS
Normal		0	-51	-0.065	
Normal		+10	53	0.068	
Normal		+20	-20	-0.026	
Normal		+30	-59	-0.075	
Normal		+40	35	0.045	
Normal		+50	-19	-0.024	
Normal		+55	45	0.058	
High		4.35	+20	-18	
BATT.ENDPOINT	3.65	+20	24	0.031	

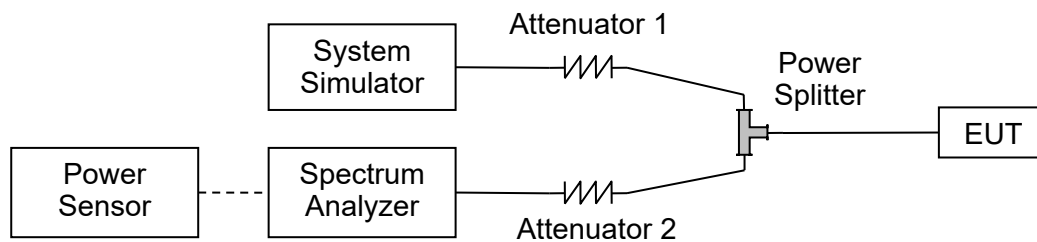
LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	-14	-0.008	PASS
Normal		0	-42	-0.024	
Normal		+10	-35	-0.020	
Normal		+20	-57	-0.033	
Normal		+30	32	0.018	
Normal		+40	38	0.022	
Normal		+50	-56	-0.032	
Normal		+55	35	0.020	
High		4.35	+20	30	
BATT.ENDPOINT	3.65	+20	13	0.007	

2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d), 27.50(d) and 27.50(j)(4), 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	4.84	<=13	PASS
	Low	16QAM	5.73	<=13	PASS
	Low	64QAM	5.72	<=13	PASS
	Mid	QPSK	5.46	<=13	PASS
	Mid	16QAM	6.30	<=13	PASS
	Mid	64QAM	6.23	<=13	PASS
	High	QPSK	4.96	<=13	PASS
	High	16QAM	5.83	<=13	PASS
	High	64QAM	5.77	<=13	PASS
3	Low	QPSK	5.21	<=13	PASS
	Low	16QAM	6.06	<=13	PASS
	Low	64QAM	6.45	<=13	PASS
	Mid	QPSK	5.57	<=13	PASS
	Mid	16QAM	6.42	<=13	PASS
	Mid	64QAM	6.71	<=13	PASS
	High	QPSK	5.16	<=13	PASS
	High	16QAM	6.03	<=13	PASS
	High	64QAM	6.50	<=13	PASS
5	Low	QPSK	5.45	<=13	PASS
	Low	16QAM	6.16	<=13	PASS
	Low	64QAM	6.52	<=13	PASS
	Mid	QPSK	5.62	<=13	PASS
	Mid	16QAM	6.31	<=13	PASS
	Mid	64QAM	6.65	<=13	PASS
	High	QPSK	5.40	<=13	PASS
	High	16QAM	6.13	<=13	PASS
	High	64QAM	6.50	<=13	PASS
10	Low	QPSK	5.58	<=13	PASS
	Low	16QAM	6.28	<=13	PASS
	Low	64QAM	6.62	<=13	PASS
	Mid	QPSK	5.61	<=13	PASS
	Mid	16QAM	6.29	<=13	PASS
	Mid	64QAM	6.62	<=13	PASS
	High	QPSK	5.46	<=13	PASS
	High	16QAM	6.21	<=13	PASS
	High	64QAM	6.21	<=13	PASS



15	Low	QPSK	5.61	<=13	PASS
	Low	16QAM	6.35	<=13	PASS
	Low	64QAM	6.70	<=13	PASS
	Mid	QPSK	5.55	<=13	PASS
	Mid	16QAM	6.24	<=13	PASS
	Mid	64QAM	6.71	<=13	PASS
	High	QPSK	5.45	<=13	PASS
	High	16QAM	6.24	<=13	PASS
	High	64QAM	6.68	<=13	PASS
20	Low	QPSK	5.67	<=13	PASS
	Low	16QAM	6.47	<=13	PASS
	Low	64QAM	6.79	<=13	PASS
	Mid	QPSK	5.58	<=13	PASS
	Mid	16QAM	6.40	<=13	PASS
	Mid	64QAM	6.70	<=13	PASS
	High	QPSK	5.53	<=13	PASS
	High	16QAM	6.35	<=13	PASS
	High	64QAM	6.71	<=13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	8.07	<=13	PASS
	Low	16QAM	6.20	<=13	PASS
	Low	64QAM	6.61	<=13	PASS
	Mid	QPSK	5.78	<=13	PASS
	Mid	16QAM	6.55	<=13	PASS
	Mid	64QAM	6.83	<=13	PASS
	High	QPSK	6.64	<=13	PASS
	High	16QAM	6.20	<=13	PASS
	High	64QAM	7.02	<=13	PASS
3	Low	QPSK	6.92	<=13	PASS
	Low	16QAM	8.02	<=13	PASS
	Low	64QAM	8.30	<=13	PASS
	Mid	QPSK	5.82	<=13	PASS
	Mid	16QAM	6.62	<=13	PASS
	Mid	64QAM	6.83	<=13	PASS
	High	QPSK	5.46	<=13	PASS
	High	16QAM	6.29	<=13	PASS
	High	64QAM	6.65	<=13	PASS
5	Low	QPSK	7.89	<=13	PASS
	Low	16QAM	6.24	<=13	PASS
	Low	64QAM	6.58	<=13	PASS
	Mid	QPSK	5.78	<=13	PASS
	Mid	16QAM	6.49	<=13	PASS
	Mid	64QAM	6.45	<=13	PASS
	High	QPSK	5.54	<=13	PASS
	High	16QAM	6.27	<=13	PASS
	High	64QAM	6.58	<=13	PASS
10	Low	QPSK	5.45	<=13	PASS
	Low	16QAM	6.16	<=13	PASS
	Low	64QAM	6.50	<=13	PASS
	Mid	QPSK	5.72	<=13	PASS
	Mid	16QAM	6.43	<=13	PASS
	Mid	64QAM	6.65	<=13	PASS
	High	QPSK	5.60	<=13	PASS
	High	16QAM	6.26	<=13	PASS
	High	64QAM	6.54	<=13	PASS



15	Low	QPSK	5.40	<=13	PASS
	Low	16QAM	6.18	<=13	PASS
	Low	64QAM	6.56	<=13	PASS
	Mid	QPSK	5.61	<=13	PASS
	Mid	16QAM	6.38	<=13	PASS
	Mid	64QAM	8.94	<=13	PASS
	High	QPSK	5.90	<=13	PASS
	High	16QAM	6.18	<=13	PASS
	High	64QAM	6.58	<=13	PASS
20	Low	QPSK	5.45	<=13	PASS
	Low	16QAM	6.25	<=13	PASS
	Low	64QAM	6.56	<=13	PASS
	Mid	QPSK	5.59	<=13	PASS
	Mid	16QAM	6.38	<=13	PASS
	Mid	64QAM	6.69	<=13	PASS
	High	QPSK	5.47	<=13	PASS
	High	16QAM	6.29	<=13	PASS
	High	64QAM	6.60	<=13	PASS



LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.43	<=13	PASS
	Low	16QAM	6.17	<=13	PASS
	Low	64QAM	6.58	<=13	PASS
	Mid	QPSK	5.58	<=13	PASS
	Mid	16QAM	6.29	<=13	PASS
	Mid	64QAM	6.69	<=13	PASS
	High	QPSK	5.02	<=13	PASS
	High	16QAM	5.81	<=13	PASS
	High	64QAM	6.37	<=13	PASS
3	Low	QPSK	6.46	<=13	PASS
	Low	16QAM	6.24	<=13	PASS
	Low	64QAM	6.57	<=13	PASS
	Mid	QPSK	5.59	<=13	PASS
	Mid	16QAM	6.40	<=13	PASS
	Mid	64QAM	6.71	<=13	PASS
	High	QPSK	5.15	<=13	PASS
	High	16QAM	6.02	<=13	PASS
	High	64QAM	6.39	<=13	PASS
5	Low	QPSK	5.45	<=13	PASS
	Low	16QAM	6.18	<=13	PASS
	Low	64QAM	6.54	<=13	PASS
	Mid	QPSK	5.58	<=13	PASS
	Mid	16QAM	6.29	<=13	PASS
	Mid	64QAM	6.61	<=13	PASS
	High	QPSK	5.35	<=13	PASS
	High	16QAM	6.05	<=13	PASS
	High	64QAM	6.46	<=13	PASS
10	Low	QPSK	5.43	<=13	PASS
	Low	16QAM	6.12	<=13	PASS
	Low	64QAM	6.13	<=13	PASS
	Mid	QPSK	5.56	<=13	PASS
	Mid	16QAM	6.28	<=13	PASS
	Mid	64QAM	6.59	<=13	PASS
	High	QPSK	5.46	<=13	PASS
	High	16QAM	6.21	<=13	PASS
	High	64QAM	6.23	<=13	PASS



15	Low	QPSK	5.33	<=13	PASS
	Low	16QAM	6.14	<=13	PASS
	Low	64QAM	6.12	<=13	PASS
	Mid	QPSK	5.50	<=13	PASS
	Mid	16QAM	5.47	<=13	PASS
	Mid	64QAM	6.61	<=13	PASS
	High	QPSK	5.45	<=13	PASS
	High	16QAM	6.20	<=13	PASS
	High	64QAM	6.60	<=13	PASS
20	Low	QPSK	5.42	<=13	PASS
	Low	16QAM	6.22	<=13	PASS
	Low	64QAM	6.57	<=13	PASS
	Mid	QPSK	5.50	<=13	PASS
	Mid	16QAM	6.28	<=13	PASS
	Mid	64QAM	6.62	<=13	PASS
	High	QPSK	5.55	<=13	PASS
	High	16QAM	6.32	<=13	PASS
	High	64QAM	6.63	<=13	PASS



Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / Mid CH / 64QAM

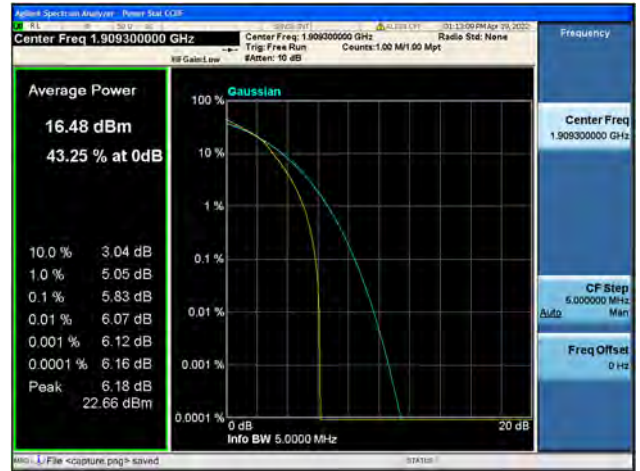




Band2 / 1.4MHz / High CH / QPSK



Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Low CH / 64QAM





Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM



Band2 / 3MHz / High CH / 64QAM

