



REPORT No. : SZ22100184W05

TEST REPORT

APPLICANT : X Wireless LLC

PRODUCT NAME : 4G Smart Phone

MODEL NAME : V23

BRAND NAME : Vortex

FCC ID : 2ADLJ-V23

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

RECEIPT DATE : 2022-10-19

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Change History		
Version	Date	Reason for change
1.0	2022-12-01	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	X Wireless LLC
Applicant Address:	6100 Executive Blvd, Suite 202, Rockville MD 20852
Manufacturer:	MOBIWIRE MOBILES (NINGBO) CO.,LTD
Manufacturer Address:	No.999,Dacheng East Road,Fenghua City,Zhejiang Province,China

1.2. Equipment Under Test (EUT) Description

Product Name:	4G Smart Phone	
Sample No.:	2#	
Hardware Version:	V00B	
Software Version:	Vortex_V23_V02_20221015_FCC	
Modulation Type:	QPSK, 16QAM, 64QAM	
Carrier Aggregation:	Not Support	
Operation Band:	Band 2 / 4 / 5 / 12 / 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 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 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz



Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	LTE Band 2	-1.50dBi
	LTE Band 4	-1.55dBi
	LTE Band 5	-2.00dBi
	LTE Band 12	-2.00dBi
	LTE Band 66	-2.00dBi
Accessory Information:	Battery	
	Brand Name:	Vortex
	Model No.:	V23
	Serial No.:	N/A
	Capacity:	2950mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.
	AC Adapter	
	Brand Name:	Vortex
	Model No.:	A18A-050100U-US2
	Serial No.:	N/A
	Rated Output:	5V=1A
	Rated Input:	100-240V~50/60Hz, 0.2A
	Manufacturer:	Dongguan Aohai Technology Co., Ltd.
	USB Cable	
	Model No.:	F30
	Manufacturer:	SHENZHEN FKY-QY HARDWARE ELECTRONIC CO.,LTD

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



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

LTE Band 2		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.126	0.100	0.078	18M0G7D	18M0W7D	18M0W7D
15		0.125	0.099	0.077	13M5G7D	13M6W7D	13M5W7D
10		0.124	0.098	0.077	9M04G7D	8M99W7D	9M02W7D
5		0.125	0.098	0.077	4M52G7D	4M52W7D	4M53W7D
3		0.126	0.098	0.076	2M69G7D	2M70W7D	2M70W7D
1.4		0.124	0.099	0.077	1M09G7D	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		0.126	0.100	0.080	18M0G7D	18M0W7D	18M0W7D
15		0.124	0.099	0.079	13M5G7D	13M5W7D	13M5W7D
10		0.124	0.100	0.079	9M04G7D	8M99W7D	9M03W7D
5		0.125	0.099	0.079	4M52G7D	4M52W7D	4M52W7D
3		0.124	0.100	0.079	2M69G7D	2M69W7D	2M70W7D
1.4		0.124	0.100	0.078	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		0.068	0.058	0.043	9M03G7D	9M00W7D	9M03W7D
5		0.067	0.057	0.043	4M52G7D	4M52W7D	4M54W7D
3		0.068	0.057	0.043	2M69G7D	2M69W7D	2M70W7D
1.4		0.068	0.057	0.052	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		0.069	0.057	0.045	9M06G7D	9M03W7D	9M05W7D
5		0.068	0.057	0.044	4M52G7D	4M52W7D	4M53W7D
3		0.067	0.056	0.044	2M70G7D	2M70W7D	2M70W7D
1.4		0.067	0.057	0.044	1M10G7D	1M10W7D	1M10W7D
LTE Band 66		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.113	0.096	0.075	18M0G7D	18M0W7D	18M0W7D
15		0.109	0.094	0.074	13M5G7D	13M5W7D	13M5W7D
10		0.108	0.096	0.074	9M03G7D	9M00W7D	9M02W7D
5		0.109	0.095	0.072	4M52G7D	4M51W7D	4M53W7D
3		0.110	0.095	0.072	2M69G7D	2M69W7D	2M70W7D
1.4		0.112	0.095	0.072	1M09G7D	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, Part 27 for the EUT FCC ID Certification:

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(c)(10) 27.50(d)(4)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Nov. 02, 2022	Chen Hao Li Huaijie	PASS	No deviation
2.1049	Occupied Bandwidth	Oct. 25, 2022	Li Huaijie	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Oct. 25, 2022	Li Huaijie	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Oct. 25, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h)	Conducted Spurious Emissions	Oct. 25, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h)	Band Edge	Oct. 25, 2022	Li Huaijie	PASS	No deviation
2.1053	Radiated	Nov. 02, 2022	Gao Jianrou	PASS	No deviation



22.917(a) 24.238(a) 27.53(g) 27.53(h)	Spurious Emissions				
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 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).

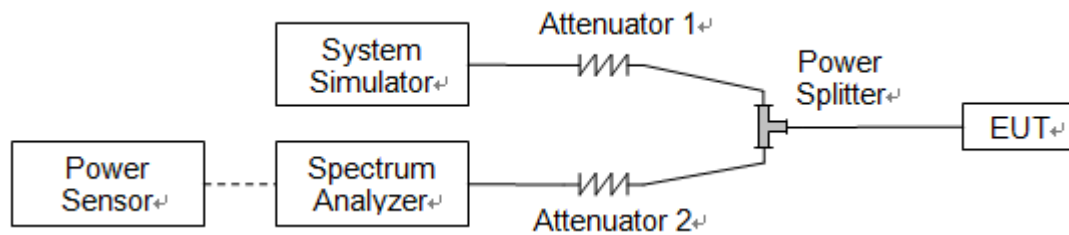
According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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.

2.1.2. Test Description



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

2.1.3. Test Procedure

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

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

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

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

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.50	22.52	22.48
20	QPSK	1	49	22.38	22.49	22.45
20	QPSK	1	99	22.48	22.33	22.32
20	QPSK	50	0	21.48	21.51	21.42
20	QPSK	50	24	21.43	21.46	21.42
20	QPSK	50	50	21.43	21.43	21.47
20	QPSK	100	0	21.44	21.53	21.41
20	16QAM	1	0	21.45	21.47	21.50
20	16QAM	1	49	21.44	21.43	21.39
20	16QAM	1	99	21.31	21.41	21.42
20	16QAM	50	0	20.39	20.50	20.50
20	16QAM	50	24	20.48	20.45	20.40
20	16QAM	50	50	20.44	20.44	20.45
20	16QAM	100	0	20.44	20.49	20.43
20	64QAM	1	0	20.16	20.43	20.03
20	64QAM	1	49	20.31	20.37	20.08
20	64QAM	1	99	20.24	20.32	20.13
20	64QAM	50	0	20.25	20.29	20.25
20	64QAM	50	24	20.28	20.31	20.18
20	64QAM	50	50	20.26	20.20	20.29
20	64QAM	100	0	20.15	20.22	20.35



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.47	22.33	22.21
15	QPSK	1	37	22.33	22.44	22.38
15	QPSK	1	74	22.42	22.24	22.24
15	QPSK	36	0	21.44	21.37	21.34
15	QPSK	36	20	21.47	21.44	21.33
15	QPSK	36	39	21.37	21.34	21.46
15	QPSK	75	0	21.36	21.31	21.36
15	16QAM	1	0	21.44	21.38	21.46
15	16QAM	1	37	21.40	21.38	21.34
15	16QAM	1	74	21.23	21.36	21.34
15	16QAM	36	0	20.29	20.44	20.43
15	16QAM	36	20	20.46	20.38	20.34
15	16QAM	36	39	20.40	20.34	20.37
15	16QAM	75	0	20.42	20.46	20.37
15	64QAM	1	0	20.12	20.35	20.35
15	64QAM	1	37	20.30	20.34	20.22
15	64QAM	1	74	20.16	20.23	20.11
15	64QAM	36	0	20.19	20.21	20.16
15	64QAM	36	20	20.20	20.28	20.08
15	64QAM	36	39	20.22	20.11	20.25
15	64QAM	75	0	20.13	20.12	20.25



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.43	22.34	22.19
10	QPSK	1	25	22.37	22.40	22.42
10	QPSK	1	49	22.42	22.25	22.23
10	QPSK	25	0	21.47	21.34	21.33
10	QPSK	25	12	21.42	21.38	21.40
10	QPSK	25	25	21.42	21.33	21.42
10	QPSK	50	0	21.43	21.29	21.38
10	16QAM	1	0	21.37	21.42	21.42
10	16QAM	1	25	21.40	21.40	21.37
10	16QAM	1	49	21.21	21.39	21.38
10	16QAM	25	0	20.30	20.46	20.45
10	16QAM	25	12	20.40	20.42	20.35
10	16QAM	25	25	20.36	20.43	20.35
10	16QAM	50	0	20.38	20.45	20.41
10	64QAM	1	0	20.10	20.34	20.26
10	64QAM	1	25	20.22	20.36	20.07
10	64QAM	1	49	20.16	20.30	20.09
10	64QAM	25	0	20.20	20.23	20.20
10	64QAM	25	12	20.22	20.28	20.10
10	64QAM	25	25	20.18	20.13	20.23
10	64QAM	50	0	20.06	20.17	20.26



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.46	22.29	22.18
5	QPSK	1	12	22.33	22.40	22.36
5	QPSK	1	24	22.45	22.28	22.30
5	QPSK	12	0	21.46	21.36	21.37
5	QPSK	12	7	21.47	21.40	21.40
5	QPSK	12	13	21.33	21.38	21.44
5	QPSK	25	0	21.42	21.30	21.36
5	16QAM	1	0	21.43	21.39	21.40
5	16QAM	1	12	21.39	21.37	21.36
5	16QAM	1	24	21.28	21.35	21.40
5	16QAM	12	0	20.37	20.40	20.47
5	16QAM	12	7	20.41	20.37	20.32
5	16QAM	12	13	20.41	20.40	20.36
5	16QAM	25	0	20.42	20.48	20.37
5	64QAM	1	0	20.10	20.36	19.93
5	64QAM	1	12	20.29	20.34	20.01
5	64QAM	1	24	20.23	20.30	20.10
5	64QAM	12	0	20.21	20.20	20.19
5	64QAM	12	7	20.20	20.28	20.13
5	64QAM	12	13	20.17	20.17	20.23
5	64QAM	25	0	20.10	20.20	20.28



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.49	22.38	22.12
3	QPSK	1	8	22.37	22.46	22.35
3	QPSK	1	14	22.47	22.29	22.30
3	QPSK	8	0	21.42	21.35	21.33
3	QPSK	8	4	21.39	21.38	21.32
3	QPSK	8	7	21.39	21.42	21.46
3	QPSK	15	0	21.34	21.23	21.31
3	16QAM	1	0	21.43	21.42	21.42
3	16QAM	1	8	21.35	21.40	21.35
3	16QAM	1	14	21.23	21.38	21.35
3	16QAM	8	0	20.29	20.42	20.49
3	16QAM	8	4	20.45	20.42	20.30
3	16QAM	8	7	20.41	20.40	20.44
3	16QAM	15	0	20.42	20.45	20.41
3	64QAM	1	0	20.14	20.33	19.93
3	64QAM	1	8	20.25	20.33	20.04
3	64QAM	1	14	20.17	20.28	20.04
3	64QAM	8	0	20.21	20.24	20.20
3	64QAM	8	4	20.25	20.22	20.17
3	64QAM	8	7	20.24	20.16	20.27
3	64QAM	15	0	20.09	20.13	20.26



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.41	22.31	22.12
1.4	QPSK	1	3	22.37	22.40	22.32
1.4	QPSK	1	5	22.40	22.30	22.30
1.4	QPSK	3	0	22.42	22.35	22.33
1.4	QPSK	3	1	22.39	22.43	22.36
1.4	QPSK	3	3	22.35	22.34	22.41
1.4	QPSK	6	0	21.41	21.26	21.39
1.4	16QAM	1	0	21.36	21.46	21.41
1.4	16QAM	1	3	21.43	21.33	21.33
1.4	16QAM	1	5	21.29	21.39	21.36
1.4	16QAM	3	0	21.30	21.43	21.44
1.4	16QAM	3	1	21.40	21.42	21.33
1.4	16QAM	3	3	21.39	21.40	21.39
1.4	16QAM	6	0	20.35	20.42	20.38
1.4	64QAM	1	0	20.12	20.33	20.11
1.4	64QAM	1	3	20.21	20.27	20.00
1.4	64QAM	1	5	20.15	20.31	20.04
1.4	64QAM	3	0	20.19	20.28	20.15
1.4	64QAM	3	1	20.22	20.25	20.13
1.4	64QAM	3	3	20.21	20.14	20.26
1.4	64QAM	6	0	20.13	20.13	20.34



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.50	22.54	22.45
20	QPSK	1	49	22.49	22.49	22.50
20	QPSK	1	99	22.47	22.51	22.42
20	QPSK	50	0	21.39	21.46	21.39
20	QPSK	50	24	21.27	21.23	21.22
20	QPSK	50	50	20.80	21.35	21.29
20	QPSK	100	0	21.24	21.29	21.27
20	16QAM	1	0	21.30	21.55	21.54
20	16QAM	1	49	21.49	21.49	21.50
20	16QAM	1	99	21.42	21.41	21.44
20	16QAM	50	0	20.53	20.50	20.50
20	16QAM	50	24	20.45	20.56	20.54
20	16QAM	50	50	20.53	20.52	20.53
20	16QAM	100	0	20.50	20.42	20.43
20	64QAM	1	0	20.56	20.30	20.25
20	64QAM	1	49	20.54	20.42	20.25
20	64QAM	1	99	20.47	20.36	20.30
20	64QAM	50	0	20.30	20.32	20.44
20	64QAM	50	24	20.28	20.29	20.41
20	64QAM	50	50	20.26	20.41	20.43
20	64QAM	100	0	20.35	20.34	20.25



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.48	22.46	22.39
15	QPSK	1	37	22.47	22.47	22.45
15	QPSK	1	74	22.39	22.47	22.36
15	QPSK	36	0	21.45	21.28	21.44
15	QPSK	36	20	21.31	21.36	21.41
15	QPSK	36	39	21.43	21.32	21.39
15	QPSK	75	0	21.46	21.30	21.39
15	16QAM	1	0	21.23	21.49	21.44
15	16QAM	1	37	21.44	21.47	21.49
15	16QAM	1	74	21.39	21.31	21.35
15	16QAM	36	0	20.46	20.41	20.41
15	16QAM	36	20	20.39	20.51	20.48
15	16QAM	36	39	20.44	20.45	20.52
15	16QAM	75	0	20.47	20.40	20.34
15	64QAM	1	0	20.49	20.22	20.24
15	64QAM	1	37	20.51	20.33	20.23
15	64QAM	1	74	20.38	20.35	20.22
15	64QAM	36	0	20.25	20.29	20.36
15	64QAM	36	20	20.20	20.20	20.36
15	64QAM	36	39	20.21	20.38	20.42
15	64QAM	75	0	20.32	20.25	20.22



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.49	22.45	22.44
10	QPSK	1	25	22.41	22.48	22.41
10	QPSK	1	49	22.45	22.49	22.35
10	QPSK	25	0	21.49	21.35	21.44
10	QPSK	25	12	21.31	21.36	21.38
10	QPSK	25	25	21.45	21.34	21.34
10	QPSK	50	0	21.50	21.28	21.36
10	16QAM	1	0	21.22	21.53	21.49
10	16QAM	1	25	21.48	21.48	21.41
10	16QAM	1	49	21.38	21.37	21.37
10	16QAM	25	0	20.43	20.42	20.46
10	16QAM	25	12	20.42	20.46	20.44
10	16QAM	25	25	20.47	20.48	20.52
10	16QAM	50	0	20.48	20.39	20.40
10	64QAM	1	0	20.47	20.23	20.23
10	64QAM	1	25	20.50	20.41	20.17
10	64QAM	1	49	20.39	20.32	20.26
10	64QAM	25	0	20.23	20.24	20.34
10	64QAM	25	12	20.27	20.26	20.40
10	64QAM	25	25	20.25	20.31	20.34
10	64QAM	50	0	20.32	20.28	20.20



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.53	22.45	22.35
5	QPSK	1	12	22.42	22.47	22.47
5	QPSK	1	24	22.37	22.46	22.37
5	QPSK	12	0	21.45	21.31	21.39
5	QPSK	12	7	21.32	21.30	21.33
5	QPSK	12	13	21.46	21.30	21.39
5	QPSK	25	0	21.45	21.34	21.42
5	16QAM	1	0	21.21	21.50	21.47
5	16QAM	1	12	21.47	21.45	21.41
5	16QAM	1	24	21.40	21.40	21.34
5	16QAM	12	0	20.43	20.41	20.40
5	16QAM	12	7	20.43	20.54	20.45
5	16QAM	12	13	20.47	20.45	20.49
5	16QAM	25	0	20.45	20.41	20.38
5	64QAM	1	0	20.50	20.25	20.24
5	64QAM	1	12	20.46	20.32	20.23
5	64QAM	1	24	20.40	20.32	20.20
5	64QAM	12	0	20.27	20.28	20.41
5	64QAM	12	7	20.21	20.22	20.31
5	64QAM	12	13	20.16	20.34	20.33
5	64QAM	25	0	20.27	20.30	20.23



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.49	22.47	22.39
3	QPSK	1	8	22.42	22.46	22.46
3	QPSK	1	14	22.46	22.44	22.39
3	QPSK	8	0	21.47	21.36	21.40
3	QPSK	8	4	21.29	21.38	21.41
3	QPSK	8	7	21.41	21.26	21.38
3	QPSK	15	0	21.45	21.35	21.43
3	16QAM	1	0	21.23	21.53	21.45
3	16QAM	1	8	21.39	21.48	21.42
3	16QAM	1	14	21.41	21.35	21.40
3	16QAM	8	0	20.51	20.46	20.44
3	16QAM	8	4	20.40	20.49	20.53
3	16QAM	8	7	20.43	20.51	20.51
3	16QAM	15	0	20.43	20.35	20.37
3	64QAM	1	0	20.50	20.22	20.20
3	64QAM	1	8	20.52	20.36	20.17
3	64QAM	1	14	20.41	20.34	20.26
3	64QAM	8	0	20.26	20.27	20.36
3	64QAM	8	4	20.18	20.21	20.38
3	64QAM	8	7	20.16	20.36	20.35
3	64QAM	15	0	20.29	20.31	20.23



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	22.50	22.43	22.36
1.4	QPSK	1	3	22.48	22.44	22.49
1.4	QPSK	1	5	22.41	22.42	22.41
1.4	QPSK	3	0	22.46	22.34	22.37
1.4	QPSK	3	1	22.37	22.38	22.41
1.4	QPSK	3	3	22.46	22.25	22.39
1.4	QPSK	6	0	21.47	21.28	21.43
1.4	16QAM	1	0	21.25	21.45	21.49
1.4	16QAM	1	3	21.45	21.43	21.44
1.4	16QAM	1	5	21.32	21.31	21.43
1.4	16QAM	3	0	21.44	21.49	21.44
1.4	16QAM	3	1	21.36	21.55	21.50
1.4	16QAM	3	3	21.44	21.49	21.44
1.4	16QAM	6	0	20.49	20.41	20.35
1.4	64QAM	1	0	20.46	20.29	20.16
1.4	64QAM	1	3	20.49	20.36	20.22
1.4	64QAM	1	5	20.41	20.34	20.23
1.4	64QAM	3	0	20.29	20.26	20.37
1.4	64QAM	3	1	20.21	20.25	20.33
1.4	64QAM	3	3	20.20	20.39	20.42
1.4	64QAM	6	0	20.30	20.25	20.17



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	22.48	22.50	22.46
10	QPSK	1	25	22.41	22.34	22.48
10	QPSK	1	49	22.43	22.43	22.34
10	QPSK	25	0	21.41	21.56	21.52
10	QPSK	25	12	21.42	21.54	21.40
10	QPSK	25	25	21.33	21.56	21.41
10	QPSK	50	0	21.31	21.46	21.47
10	16QAM	1	0	21.52	21.77	21.64
10	16QAM	1	25	21.74	21.69	21.76
10	16QAM	1	49	21.65	21.76	21.62
10	16QAM	25	0	20.35	20.49	20.36
10	16QAM	25	12	20.42	20.58	20.55
10	16QAM	25	25	20.56	20.54	20.60
10	16QAM	50	0	20.36	20.46	20.41
10	64QAM	1	0	20.29	20.49	20.51
10	64QAM	1	25	20.34	20.47	20.52
10	64QAM	1	49	20.38	20.45	20.48
10	64QAM	25	0	20.42	20.28	20.43
10	64QAM	25	12	20.45	20.50	20.46
10	64QAM	25	25	20.53	20.48	20.42
10	64QAM	50	0	20.31	20.30	20.35



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.38	22.39	22.42
5	QPSK	1	12	22.34	22.27	22.39
5	QPSK	1	24	22.36	22.41	22.25
5	QPSK	12	0	21.26	21.44	21.53
5	QPSK	12	7	21.32	21.49	21.35
5	QPSK	12	13	21.26	21.51	21.40
5	QPSK	25	0	21.28	21.40	21.37
5	16QAM	1	0	21.51	21.67	21.57
5	16QAM	1	12	21.64	21.66	21.68
5	16QAM	1	24	21.62	21.74	21.60
5	16QAM	12	0	20.25	20.39	20.33
5	16QAM	12	7	20.32	20.57	20.49
5	16QAM	12	13	20.48	20.51	20.53
5	16QAM	25	0	20.32	20.36	20.32
5	64QAM	1	0	20.34	20.46	20.48
5	64QAM	1	12	20.28	20.37	20.45
5	64QAM	1	24	20.30	20.35	20.47
5	64QAM	12	0	20.34	20.25	20.42
5	64QAM	12	7	20.43	20.46	20.44
5	64QAM	12	13	20.51	20.40	20.39
5	64QAM	25	0	20.30	20.26	20.27



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.44	22.32	22.48
3	QPSK	1	8	22.36	22.24	22.43
3	QPSK	1	14	22.34	22.35	22.33
3	QPSK	8	0	21.22	21.52	21.49
3	QPSK	8	4	21.39	21.47	21.36
3	QPSK	8	7	21.31	21.49	21.36
3	QPSK	15	0	21.21	21.41	21.41
3	16QAM	1	0	21.43	21.68	21.56
3	16QAM	1	8	21.65	21.62	21.72
3	16QAM	1	14	21.57	21.66	21.52
3	16QAM	8	0	20.29	20.41	20.34
3	16QAM	8	4	20.32	20.51	20.47
3	16QAM	8	7	20.47	20.48	20.52
3	16QAM	15	0	20.33	20.36	20.33
3	64QAM	1	0	20.34	20.43	20.42
3	64QAM	1	8	20.37	20.46	20.48
3	64QAM	1	14	20.30	20.38	20.42
3	64QAM	8	0	20.34	20.23	20.34
3	64QAM	8	4	20.43	20.40	20.45
3	64QAM	8	7	20.50	20.45	20.41
3	64QAM	15	0	20.29	20.24	20.25



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.46	22.40	22.47
1.4	QPSK	1	3	22.31	22.32	22.39
1.4	QPSK	1	5	22.42	22.41	22.26
1.4	QPSK	3	0	22.32	22.47	22.41
1.4	QPSK	3	1	22.36	22.45	22.37
1.4	QPSK	3	3	22.30	22.47	22.33
1.4	QPSK	6	0	21.24	21.39	21.46
1.4	16QAM	1	0	21.42	21.68	21.60
1.4	16QAM	1	3	21.73	21.67	21.70
1.4	16QAM	1	5	21.63	21.74	21.58
1.4	16QAM	3	0	21.30	21.45	21.37
1.4	16QAM	3	1	21.34	21.48	21.52
1.4	16QAM	3	3	21.48	21.46	21.51
1.4	16QAM	6	0	20.34	20.42	20.32
1.4	64QAM	1	0	21.35	20.39	20.41
1.4	64QAM	1	3	21.34	20.45	20.46
1.4	64QAM	1	5	20.35	20.39	20.38
1.4	64QAM	3	0	20.38	20.34	20.37
1.4	64QAM	3	1	20.39	20.47	20.40
1.4	64QAM	3	3	20.45	20.43	20.36
1.4	64QAM	6	0	20.24	20.26	20.34



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	22.42	22.52	22.49
10	QPSK	1	25	22.36	22.38	22.46
10	QPSK	1	49	22.36	22.36	22.36
10	QPSK	25	0	21.64	21.67	21.60
10	QPSK	25	12	21.51	21.40	21.44
10	QPSK	25	25	21.66	21.38	21.36
10	QPSK	50	0	21.63	21.41	21.65
10	16QAM	1	0	21.73	21.59	21.71
10	16QAM	1	25	21.68	21.71	21.62
10	16QAM	1	49	21.57	21.64	21.50
10	16QAM	25	0	20.71	20.55	20.45
10	16QAM	25	12	20.62	20.49	20.41
10	16QAM	25	25	20.60	20.47	20.31
10	16QAM	50	0	20.43	20.40	20.46
10	64QAM	1	0	20.45	20.36	20.43
10	64QAM	1	25	20.40	20.52	20.40
10	64QAM	1	49	20.46	20.48	20.49
10	64QAM	25	0	20.33	20.43	20.37
10	64QAM	25	12	20.35	20.45	20.38
10	64QAM	25	25	20.38	20.40	20.36
10	64QAM	50	0	20.31	20.65	20.34



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.33	22.34	22.45
5	QPSK	1	12	22.27	22.28	22.40
5	QPSK	1	24	22.28	22.35	22.30
5	QPSK	12	0	21.54	21.30	21.59
5	QPSK	12	7	21.47	21.30	21.35
5	QPSK	12	13	21.60	21.37	21.27
5	QPSK	25	0	21.54	21.38	21.64
5	16QAM	1	0	21.65	21.55	21.69
5	16QAM	1	12	21.64	21.67	21.61
5	16QAM	1	24	21.54	21.55	21.49
5	16QAM	12	0	20.70	20.45	20.43
5	16QAM	12	7	20.52	20.41	20.34
5	16QAM	12	13	20.59	20.44	20.24
5	16QAM	25	0	20.42	20.30	20.36
5	64QAM	1	0	20.39	20.32	20.40
5	64QAM	1	12	20.39	20.47	20.30
5	64QAM	1	24	20.38	20.38	20.40
5	64QAM	12	0	20.29	20.42	20.27
5	64QAM	12	7	20.26	20.36	20.32
5	64QAM	12	13	20.36	20.33	20.33
5	64QAM	25	0	20.22	20.59	20.24



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	22.26	22.28	22.42
3	QPSK	1	8	22.34	22.30	22.42
3	QPSK	1	14	22.33	22.30	22.32
3	QPSK	8	0	21.57	21.31	21.58
3	QPSK	8	4	21.41	21.38	21.37
3	QPSK	8	7	21.60	21.33	21.28
3	QPSK	15	0	21.56	21.37	21.58
3	16QAM	1	0	21.67	21.54	21.64
3	16QAM	1	8	21.59	21.65	21.52
3	16QAM	1	14	21.49	21.60	21.48
3	16QAM	8	0	20.68	20.46	20.42
3	16QAM	8	4	20.59	20.45	20.39
3	16QAM	8	7	20.57	20.38	20.30
3	16QAM	15	0	20.34	20.37	20.41
3	64QAM	1	0	20.44	20.27	20.33
3	64QAM	1	8	20.32	20.44	20.35
3	64QAM	1	14	20.36	20.40	20.43
3	64QAM	8	0	20.25	20.42	20.30
3	64QAM	8	4	20.27	20.35	20.35
3	64QAM	8	7	20.34	20.39	20.30
3	64QAM	15	0	20.28	20.63	20.25



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power (dBm) Low Ch. / Freq.	Average Power (dBm) Middle Ch. / Freq.	Average Power (dBm) High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	22.33	22.30	22.44
1.4	QPSK	1	3	22.30	22.34	22.41
1.4	QPSK	1	5	22.34	22.26	22.28
1.4	QPSK	3	0	22.30	22.35	22.22
1.4	QPSK	3	1	22.10	22.31	22.37
1.4	QPSK	3	3	22.20	22.34	22.32
1.4	QPSK	6	0	21.59	21.35	21.57
1.4	16QAM	1	0	21.71	21.54	21.67
1.4	16QAM	1	3	21.67	21.69	21.57
1.4	16QAM	1	5	21.52	21.55	21.44
1.4	16QAM	3	0	21.63	21.52	21.40
1.4	16QAM	3	1	21.54	21.45	21.34
1.4	16QAM	3	3	21.56	21.42	21.25
1.4	16QAM	6	0	20.42	20.38	20.41
1.4	64QAM	1	0	20.44	20.30	20.41
1.4	64QAM	1	3	20.30	20.44	20.32
1.4	64QAM	1	5	20.43	20.44	20.39
1.4	64QAM	3	0	20.29	20.38	20.31
1.4	64QAM	3	1	20.26	20.37	20.37
1.4	64QAM	3	3	20.32	20.32	20.30
1.4	64QAM	6	0	20.29	20.58	20.31



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	22.47	22.53	22.48
20	QPSK	1	49	22.37	22.38	22.39
20	QPSK	1	99	22.37	22.40	22.30
20	QPSK	50	0	21.54	21.60	21.52
20	QPSK	50	24	21.42	21.54	21.47
20	QPSK	50	50	21.57	21.55	21.46
20	QPSK	100	0	21.49	21.55	21.51
20	16QAM	1	0	21.43	21.57	21.77
20	16QAM	1	49	21.84	21.68	21.73
20	16QAM	1	99	21.76	21.57	21.62
20	16QAM	50	0	20.56	20.49	20.52
20	16QAM	50	24	20.52	20.53	20.54
20	16QAM	50	50	20.40	20.46	20.57
20	16QAM	100	0	20.51	20.51	20.56
20	64QAM	1	0	20.48	20.55	20.76
20	64QAM	1	49	20.51	20.36	20.75
20	64QAM	1	99	20.43	20.29	20.68
20	64QAM	50	0	20.21	20.15	20.58
20	64QAM	50	24	20.52	20.55	20.55
20	64QAM	50	50	20.38	20.47	20.55
20	64QAM	100	0	20.48	20.49	20.57



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	22.33	22.38	22.30
15	QPSK	1	37	22.35	22.28	22.37
15	QPSK	1	74	22.33	22.32	22.26
15	QPSK	36	0	21.35	21.51	21.44
15	QPSK	36	20	21.33	21.52	21.42
15	QPSK	36	39	21.55	21.52	21.38
15	QPSK	75	0	21.48	21.43	21.49
15	16QAM	1	0	21.35	21.48	21.72
15	16QAM	1	37	21.75	21.63	21.63
15	16QAM	1	74	21.72	21.51	21.54
15	16QAM	36	0	20.51	20.40	20.47
15	16QAM	36	20	20.42	20.43	20.45
15	16QAM	36	39	20.36	20.42	20.55
15	16QAM	75	0	20.50	20.49	20.51
15	64QAM	1	0	20.40	20.47	20.70
15	64QAM	1	37	20.48	20.33	20.34
15	64QAM	1	74	20.34	20.20	20.25
15	64QAM	36	0	20.12	20.07	20.23
15	64QAM	36	20	20.46	20.49	20.47
15	64QAM	36	39	20.34	20.45	20.46
15	64QAM	75	0	20.41	20.45	20.56



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	22.31	22.34	22.27
10	QPSK	1	25	22.27	22.33	22.28
10	QPSK	1	49	22.28	22.33	22.29
10	QPSK	25	0	21.40	21.53	21.48
10	QPSK	25	12	21.38	21.50	21.37
10	QPSK	25	25	21.51	21.46	21.36
10	QPSK	50	0	21.44	21.43	21.42
10	16QAM	1	0	21.37	21.54	21.68
10	16QAM	1	25	21.82	21.64	21.63
10	16QAM	1	49	21.66	21.49	21.56
10	16QAM	25	0	20.54	20.41	20.51
10	16QAM	25	12	20.50	20.46	20.53
10	16QAM	25	25	20.37	20.39	20.47
10	16QAM	50	0	20.42	20.48	20.49
10	64QAM	1	0	20.46	20.45	20.71
10	64QAM	1	25	20.49	20.28	20.31
10	64QAM	1	49	20.37	20.22	20.30
10	64QAM	25	0	20.15	20.09	20.16
10	64QAM	25	12	20.47	20.51	20.49
10	64QAM	25	25	20.35	20.38	20.50
10	64QAM	50	0	20.40	20.46	20.47



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	22.33	22.39	22.23
5	QPSK	1	12	22.28	22.36	22.30
5	QPSK	1	24	22.28	22.33	22.21
5	QPSK	12	0	21.37	21.54	21.45
5	QPSK	12	7	21.35	21.47	21.44
5	QPSK	12	13	21.47	21.54	21.44
5	QPSK	25	0	21.39	21.50	21.50
5	16QAM	1	0	21.41	21.48	21.67
5	16QAM	1	12	21.80	21.61	21.68
5	16QAM	1	24	21.71	21.56	21.56
5	16QAM	12	0	20.47	20.43	20.44
5	16QAM	12	7	20.44	20.49	20.48
5	16QAM	12	13	20.39	20.45	20.47
5	16QAM	25	0	20.44	20.43	20.48
5	64QAM	1	0	20.09	20.18	20.36
5	64QAM	1	12	20.46	20.27	20.32
5	64QAM	1	24	20.34	20.23	20.32
5	64QAM	12	0	20.54	20.40	20.55
5	64QAM	12	7	20.45	20.48	20.46
5	64QAM	12	13	20.36	20.40	20.53
5	64QAM	25	0	20.44	20.47	20.52



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	22.32	22.42	22.26
3	QPSK	1	8	22.35	22.32	22.29
3	QPSK	1	14	22.31	22.31	22.26
3	QPSK	8	0	21.35	21.52	21.51
3	QPSK	8	4	21.38	21.51	21.45
3	QPSK	8	7	21.49	21.49	21.44
3	QPSK	15	0	21.44	21.49	21.50
3	16QAM	1	0	21.39	21.55	21.70
3	16QAM	1	8	21.78	21.58	21.70
3	16QAM	1	14	21.75	21.56	21.60
3	16QAM	8	0	20.47	20.40	20.46
3	16QAM	8	4	20.43	20.44	20.46
3	16QAM	8	7	20.33	20.39	20.54
3	16QAM	15	0	20.41	20.41	20.54
3	64QAM	1	0	20.04	20.11	20.40
3	64QAM	1	8	20.46	20.28	20.38
3	64QAM	1	14	20.35	20.28	20.27
3	64QAM	8	0	20.45	20.44	20.51
3	64QAM	8	4	20.45	20.50	20.47
3	64QAM	8	7	20.35	20.38	20.49
3	64QAM	15	0	20.41	20.45	20.56



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	22.32	22.35	22.26
1.4	QPSK	1	3	22.33	22.31	22.34
1.4	QPSK	1	5	22.33	22.30	22.20
1.4	QPSK	3	0	22.42	22.33	22.49
1.4	QPSK	3	1	22.41	22.22	22.39
1.4	QPSK	3	3	22.47	22.15	22.43
1.4	QPSK	6	0	21.42	21.43	21.46
1.4	16QAM	1	0	21.42	21.50	21.76
1.4	16QAM	1	3	21.78	21.66	21.70
1.4	16QAM	1	5	21.68	21.48	21.56
1.4	16QAM	3	0	21.54	21.44	21.49
1.4	16QAM	3	1	21.49	21.50	21.50
1.4	16QAM	3	3	21.39	21.42	21.48
1.4	16QAM	6	0	20.50	20.47	20.48
1.4	64QAM	1	0	20.07	20.20	20.39
1.4	64QAM	1	3	20.50	20.35	20.40
1.4	64QAM	1	5	20.39	20.21	20.26
1.4	64QAM	3	0	20.48	20.41	20.54
1.4	64QAM	3	1	20.46	20.50	20.51
1.4	64QAM	3	3	20.36	20.41	20.51
1.4	64QAM	6	0	20.39	20.43	20.56

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

LTE Band 2				Measured E.I.R.P. (dBm)					
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	21.00	0.126	21.02	0.126	20.98	0.125
20	QPSK	1	49	20.88	0.122	20.99	0.126	20.95	0.124
20	QPSK	1	99	20.98	0.125	20.83	0.121	20.82	0.121
20	QPSK	50	0	19.98	0.100	20.01	0.100	19.92	0.098
20	QPSK	50	24	19.93	0.098	19.96	0.099	19.92	0.098
20	QPSK	50	50	19.93	0.098	19.93	0.098	19.97	0.099
20	QPSK	100	0	19.94	0.099	20.03	0.101	19.91	0.098
20	16QAM	1	0	19.95	0.099	19.97	0.099	20.00	0.100
20	16QAM	1	49	19.94	0.099	19.93	0.098	19.89	0.097
20	16QAM	1	99	19.81	0.096	19.91	0.098	19.92	0.098
20	16QAM	50	0	18.89	0.077	19.00	0.079	19.00	0.079
20	16QAM	50	24	18.98	0.079	18.95	0.079	18.90	0.078
20	16QAM	50	50	18.94	0.078	18.94	0.078	18.95	0.079
20	16QAM	100	0	18.94	0.078	18.99	0.079	18.93	0.078
20	64QAM	1	0	18.66	0.073	18.93	0.078	18.53	0.071
20	64QAM	1	49	18.81	0.076	18.87	0.077	18.58	0.072
20	64QAM	1	99	18.74	0.075	18.82	0.076	18.63	0.073
20	64QAM	50	0	18.75	0.075	18.79	0.076	18.75	0.075
20	64QAM	50	24	18.78	0.076	18.81	0.076	18.68	0.074
20	64QAM	50	50	18.76	0.075	18.70	0.074	18.79	0.076
20	64QAM	100	0	18.65	0.073	18.72	0.074	18.85	0.077



LTE Band 2				Measured E.I.R.P. (dBm)					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	20.97	0.125	20.83	0.121	20.71	0.118
15	QPSK	1	37	20.83	0.121	20.94	0.124	20.88	0.122
15	QPSK	1	74	20.92	0.124	20.74	0.119	20.74	0.119
15	QPSK	36	0	19.94	0.099	19.87	0.097	19.84	0.096
15	QPSK	36	20	19.97	0.099	19.94	0.099	19.83	0.096
15	QPSK	36	39	19.87	0.097	19.84	0.096	19.96	0.099
15	QPSK	75	0	19.86	0.097	19.81	0.096	19.86	0.097
15	16QAM	1	0	19.94	0.099	19.88	0.097	19.96	0.099
15	16QAM	1	37	19.90	0.098	19.88	0.097	19.84	0.096
15	16QAM	1	74	19.73	0.094	19.86	0.097	19.84	0.096
15	16QAM	36	0	18.79	0.076	18.94	0.078	18.93	0.078
15	16QAM	36	20	18.96	0.079	18.88	0.077	18.84	0.077
15	16QAM	36	39	18.90	0.078	18.84	0.077	18.87	0.077
15	16QAM	75	0	18.92	0.078	18.96	0.079	18.87	0.077
15	64QAM	1	0	18.62	0.073	18.85	0.077	18.85	0.077
15	64QAM	1	37	18.80	0.076	18.84	0.077	18.72	0.074
15	64QAM	1	74	18.66	0.073	18.73	0.075	18.61	0.073
15	64QAM	36	0	18.69	0.074	18.71	0.074	18.66	0.073
15	64QAM	36	20	18.70	0.074	18.78	0.076	18.58	0.072
15	64QAM	36	39	18.72	0.074	18.61	0.073	18.75	0.075
15	64QAM	75	0	18.63	0.073	18.62	0.073	18.75	0.075



LTE Band 2				Measured E.I.R.P. (dBm)					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	20.93	0.124	20.84	0.121	20.69	0.117
10	QPSK	1	25	20.87	0.122	20.90	0.123	20.92	0.124
10	QPSK	1	49	20.92	0.124	20.75	0.119	20.73	0.118
10	QPSK	25	0	19.97	0.099	19.84	0.096	19.83	0.096
10	QPSK	25	12	19.92	0.098	19.88	0.097	19.90	0.098
10	QPSK	25	25	19.92	0.098	19.83	0.096	19.92	0.098
10	QPSK	50	0	19.93	0.098	19.79	0.095	19.88	0.097
10	16QAM	1	0	19.87	0.097	19.92	0.098	19.92	0.098
10	16QAM	1	25	19.90	0.098	19.90	0.098	19.87	0.097
10	16QAM	1	49	19.71	0.094	19.89	0.097	19.88	0.097
10	16QAM	25	0	18.80	0.076	18.96	0.079	18.95	0.079
10	16QAM	25	12	18.90	0.078	18.92	0.078	18.85	0.077
10	16QAM	25	25	18.86	0.077	18.93	0.078	18.85	0.077
10	16QAM	50	0	18.88	0.077	18.95	0.079	18.91	0.078
10	64QAM	1	0	18.60	0.072	18.84	0.077	18.76	0.075
10	64QAM	1	25	18.72	0.074	18.86	0.077	18.57	0.072
10	64QAM	1	49	18.66	0.073	18.80	0.076	18.59	0.072
10	64QAM	25	0	18.70	0.074	18.73	0.075	18.70	0.074
10	64QAM	25	12	18.72	0.074	18.78	0.076	18.60	0.072
10	64QAM	25	25	18.68	0.074	18.63	0.073	18.73	0.075
10	64QAM	50	0	18.56	0.072	18.67	0.074	18.76	0.075



LTE Band 2				Measured E.I.R.P. (dBm)					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	20.96	0.125	20.79	0.120	20.68	0.117
5	QPSK	1	12	20.83	0.121	20.90	0.123	20.86	0.122
5	QPSK	1	24	20.95	0.124	20.78	0.120	20.80	0.120
5	QPSK	12	0	19.96	0.099	19.86	0.097	19.87	0.097
5	QPSK	12	7	19.97	0.099	19.90	0.098	19.90	0.098
5	QPSK	12	13	19.83	0.096	19.88	0.097	19.94	0.099
5	QPSK	25	0	19.92	0.098	19.80	0.095	19.86	0.097
5	16QAM	1	0	19.93	0.098	19.89	0.097	19.90	0.098
5	16QAM	1	12	19.89	0.097	19.87	0.097	19.86	0.097
5	16QAM	1	24	19.78	0.095	19.85	0.097	19.90	0.098
5	16QAM	12	0	18.87	0.077	18.90	0.078	18.97	0.079
5	16QAM	12	7	18.91	0.078	18.87	0.077	18.82	0.076
5	16QAM	12	13	18.91	0.078	18.90	0.078	18.86	0.077
5	16QAM	25	0	18.92	0.078	18.98	0.079	18.87	0.077
5	64QAM	1	0	18.60	0.072	18.86	0.077	18.43	0.070
5	64QAM	1	12	18.79	0.076	18.84	0.077	18.51	0.071
5	64QAM	1	24	18.73	0.075	18.80	0.076	18.60	0.072
5	64QAM	12	0	18.71	0.074	18.70	0.074	18.69	0.074
5	64QAM	12	7	18.70	0.074	18.78	0.076	18.63	0.073
5	64QAM	12	13	18.67	0.074	18.67	0.074	18.73	0.075
5	64QAM	25	0	18.60	0.072	18.70	0.074	18.78	0.076



LTE Band 2				Measured E.I.R.P. (dBm)					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	20.99	0.126	20.88	0.122	20.62	0.115
3	QPSK	1	8	20.87	0.122	20.96	0.125	20.85	0.122
3	QPSK	1	14	20.97	0.125	20.79	0.120	20.80	0.120
3	QPSK	8	0	19.92	0.098	19.85	0.097	19.83	0.096
3	QPSK	8	4	19.89	0.097	19.88	0.097	19.82	0.096
3	QPSK	8	7	19.89	0.097	19.92	0.098	19.96	0.099
3	QPSK	15	0	19.84	0.096	19.73	0.094	19.81	0.096
3	16QAM	1	0	19.93	0.098	19.92	0.098	19.92	0.098
3	16QAM	1	8	19.85	0.097	19.90	0.098	19.85	0.097
3	16QAM	1	14	19.73	0.094	19.88	0.097	19.85	0.097
3	16QAM	8	0	18.79	0.076	18.92	0.078	18.99	0.079
3	16QAM	8	4	18.95	0.079	18.92	0.078	18.80	0.076
3	16QAM	8	7	18.91	0.078	18.90	0.078	18.94	0.078
3	16QAM	15	0	18.92	0.078	18.95	0.079	18.91	0.078
3	64QAM	1	0	18.64	0.073	18.83	0.076	18.43	0.070
3	64QAM	1	8	18.75	0.075	18.83	0.076	18.54	0.071
3	64QAM	1	14	18.67	0.074	18.78	0.076	18.54	0.071
3	64QAM	8	0	18.71	0.074	18.74	0.075	18.70	0.074
3	64QAM	8	4	18.75	0.075	18.72	0.074	18.67	0.074
3	64QAM	8	7	18.74	0.075	18.66	0.073	18.77	0.075
3	64QAM	15	0	18.59	0.072	18.63	0.073	18.76	0.075



LTE Band 2				Measured E.I.R.P. (dBm)					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	20.91	0.123	20.81	0.121	20.62	0.115
1.4	QPSK	1	3	20.87	0.122	20.90	0.123	20.82	0.121
1.4	QPSK	1	5	20.90	0.123	20.80	0.120	20.80	0.120
1.4	QPSK	3	0	20.92	0.124	20.85	0.122	20.83	0.121
1.4	QPSK	3	1	20.89	0.123	20.93	0.124	20.86	0.122
1.4	QPSK	3	3	20.85	0.122	20.84	0.121	20.91	0.123
1.4	QPSK	6	0	19.91	0.098	19.76	0.095	19.89	0.097
1.4	16QAM	1	0	19.86	0.097	19.96	0.099	19.91	0.098
1.4	16QAM	1	3	19.93	0.098	19.83	0.096	19.83	0.096
1.4	16QAM	1	5	19.79	0.095	19.89	0.097	19.86	0.097
1.4	16QAM	3	0	19.80	0.095	19.93	0.098	19.94	0.099
1.4	16QAM	3	1	19.90	0.098	19.92	0.098	19.83	0.096
1.4	16QAM	3	3	19.89	0.097	19.90	0.098	19.89	0.097
1.4	16QAM	6	0	18.85	0.077	18.92	0.078	18.88	0.077
1.4	64QAM	1	0	18.62	0.073	18.83	0.076	18.61	0.073
1.4	64QAM	1	3	18.71	0.074	18.77	0.075	18.50	0.071
1.4	64QAM	1	5	18.65	0.073	18.81	0.076	18.54	0.071
1.4	64QAM	3	0	18.69	0.074	18.78	0.076	18.65	0.073
1.4	64QAM	3	1	18.72	0.074	18.75	0.075	18.63	0.073
1.4	64QAM	3	3	18.71	0.074	18.64	0.073	18.76	0.075
1.4	64QAM	6	0	18.63	0.073	18.63	0.073	18.84	0.077



LTE Band 4				Measured E.I.R.P. (dBm)					
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	20.95	0.124	20.99	0.126	20.90	0.123
20	QPSK	1	49	20.94	0.124	20.94	0.124	20.95	0.124
20	QPSK	1	99	20.92	0.124	20.96	0.125	20.87	0.122
20	QPSK	50	0	19.84	0.096	19.91	0.098	19.84	0.096
20	QPSK	50	24	19.72	0.094	19.68	0.093	19.67	0.093
20	QPSK	50	50	19.25	0.084	19.80	0.095	19.74	0.094
20	QPSK	100	0	19.69	0.093	19.74	0.094	19.72	0.094
20	16QAM	1	0	19.75	0.094	20.00	0.100	19.99	0.100
20	16QAM	1	49	19.94	0.099	19.94	0.099	19.95	0.099
20	16QAM	1	99	19.87	0.097	19.86	0.097	19.89	0.097
20	16QAM	50	0	18.98	0.079	18.95	0.079	18.95	0.079
20	16QAM	50	24	18.90	0.078	19.01	0.080	18.99	0.079
20	16QAM	50	50	18.98	0.079	18.97	0.079	18.98	0.079
20	16QAM	100	0	18.95	0.079	18.87	0.077	18.88	0.077
20	64QAM	1	0	19.01	0.080	18.75	0.075	18.70	0.074
20	64QAM	1	49	18.99	0.079	18.87	0.077	18.70	0.074
20	64QAM	1	99	18.92	0.078	18.81	0.076	18.75	0.075
20	64QAM	50	0	18.75	0.075	18.77	0.075	18.89	0.077
20	64QAM	50	24	18.73	0.075	18.74	0.075	18.86	0.077
20	64QAM	50	50	18.71	0.074	18.86	0.077	18.88	0.077
20	64QAM	100	0	18.80	0.076	18.79	0.076	18.70	0.074



LTE Band 4				Measured E.I.R.P. (dBm)					
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	20.93	0.124	20.91	0.123	20.84	0.121
15	QPSK	1	37	20.92	0.124	20.92	0.124	20.90	0.123
15	QPSK	1	74	20.84	0.121	20.92	0.124	20.81	0.121
15	QPSK	36	0	19.90	0.098	19.73	0.094	19.89	0.097
15	QPSK	36	20	19.76	0.095	19.81	0.096	19.86	0.097
15	QPSK	36	39	19.88	0.097	19.77	0.095	19.84	0.096
15	QPSK	75	0	19.91	0.098	19.75	0.094	19.84	0.096
15	16QAM	1	0	19.68	0.093	19.94	0.099	19.89	0.097
15	16QAM	1	37	19.89	0.097	19.92	0.098	19.94	0.099
15	16QAM	1	74	19.84	0.096	19.76	0.095	19.80	0.095
15	16QAM	36	0	18.91	0.078	18.86	0.077	18.86	0.077
15	16QAM	36	20	18.84	0.077	18.96	0.079	18.93	0.078
15	16QAM	36	39	18.89	0.077	18.90	0.078	18.97	0.079
15	16QAM	75	0	18.92	0.078	18.85	0.077	18.79	0.076
15	64QAM	1	0	18.94	0.078	18.67	0.074	18.69	0.074
15	64QAM	1	37	18.96	0.079	18.78	0.076	18.68	0.074
15	64QAM	1	74	18.83	0.076	18.80	0.076	18.67	0.074
15	64QAM	36	0	18.70	0.074	18.74	0.075	18.81	0.076
15	64QAM	36	20	18.65	0.073	18.65	0.073	18.81	0.076
15	64QAM	36	39	18.66	0.073	18.83	0.076	18.87	0.077
15	64QAM	75	0	18.77	0.075	18.70	0.074	18.67	0.074



LTE Band 4				Measured E.I.R.P. (dBm)					
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	20.94	0.124	20.90	0.123	20.89	0.123
10	QPSK	1	25	20.86	0.122	20.93	0.124	20.86	0.122
10	QPSK	1	49	20.90	0.123	20.94	0.124	20.80	0.120
10	QPSK	25	0	19.94	0.099	19.80	0.095	19.89	0.097
10	QPSK	25	12	19.76	0.095	19.81	0.096	19.83	0.096
10	QPSK	25	25	19.90	0.098	19.79	0.095	19.79	0.095
10	QPSK	50	0	19.95	0.099	19.73	0.094	19.81	0.096
10	16QAM	1	0	19.67	0.093	19.98	0.100	19.94	0.099
10	16QAM	1	25	19.93	0.098	19.93	0.098	19.86	0.097
10	16QAM	1	49	19.83	0.096	19.82	0.096	19.82	0.096
10	16QAM	25	0	18.88	0.077	18.87	0.077	18.91	0.078
10	16QAM	25	12	18.87	0.077	18.91	0.078	18.89	0.077
10	16QAM	25	25	18.92	0.078	18.93	0.078	18.97	0.079
10	16QAM	50	0	18.93	0.078	18.84	0.077	18.85	0.077
10	64QAM	1	0	18.92	0.078	18.68	0.074	18.68	0.074
10	64QAM	1	25	18.95	0.079	18.86	0.077	18.62	0.073
10	64QAM	1	49	18.84	0.077	18.77	0.075	18.71	0.074
10	64QAM	25	0	18.68	0.074	18.69	0.074	18.79	0.076
10	64QAM	25	12	18.72	0.074	18.71	0.074	18.85	0.077
10	64QAM	25	25	18.70	0.074	18.76	0.075	18.79	0.076
10	64QAM	50	0	18.77	0.075	18.73	0.075	18.65	0.073



LTE Band 4				Measured E.I.R.P. (dBm)					
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	20.98	0.125	20.90	0.123	20.80	0.120
5	QPSK	1	12	20.87	0.122	20.92	0.124	20.92	0.124
5	QPSK	1	24	20.82	0.121	20.91	0.123	20.82	0.121
5	QPSK	12	0	19.90	0.098	19.76	0.095	19.84	0.096
5	QPSK	12	7	19.77	0.095	19.75	0.094	19.78	0.095
5	QPSK	12	13	19.91	0.098	19.75	0.094	19.84	0.096
5	QPSK	25	0	19.90	0.098	19.79	0.095	19.87	0.097
5	16QAM	1	0	19.66	0.092	19.95	0.099	19.92	0.098
5	16QAM	1	12	19.92	0.098	19.90	0.098	19.86	0.097
5	16QAM	1	24	19.85	0.097	19.85	0.097	19.79	0.095
5	16QAM	12	0	18.88	0.077	18.86	0.077	18.85	0.077
5	16QAM	12	7	18.88	0.077	18.99	0.079	18.90	0.078
5	16QAM	12	13	18.92	0.078	18.90	0.078	18.94	0.078
5	16QAM	25	0	18.90	0.078	18.86	0.077	18.83	0.076
5	64QAM	1	0	18.95	0.079	18.70	0.074	18.69	0.074
5	64QAM	1	12	18.91	0.078	18.77	0.075	18.68	0.074
5	64QAM	1	24	18.85	0.077	18.77	0.075	18.65	0.073
5	64QAM	12	0	18.72	0.074	18.73	0.075	18.86	0.077
5	64QAM	12	7	18.66	0.073	18.67	0.074	18.76	0.075
5	64QAM	12	13	18.61	0.073	18.79	0.076	18.78	0.076
5	64QAM	25	0	18.72	0.074	18.75	0.075	18.68	0.074



LTE Band 4				Measured E.I.R.P. (dBm)					
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	20.94	0.124	20.92	0.124	20.84	0.121
3	QPSK	1	8	20.87	0.122	20.91	0.123	20.91	0.123
3	QPSK	1	14	20.91	0.123	20.89	0.123	20.84	0.121
3	QPSK	8	0	19.92	0.098	19.81	0.096	19.85	0.097
3	QPSK	8	4	19.74	0.094	19.83	0.096	19.86	0.097
3	QPSK	8	7	19.86	0.097	19.71	0.094	19.83	0.096
3	QPSK	15	0	19.90	0.098	19.80	0.095	19.88	0.097
3	16QAM	1	0	19.68	0.093	19.98	0.100	19.90	0.098
3	16QAM	1	8	19.84	0.096	19.93	0.098	19.87	0.097
3	16QAM	1	14	19.86	0.097	19.80	0.095	19.85	0.097
3	16QAM	8	0	18.96	0.079	18.91	0.078	18.89	0.077
3	16QAM	8	4	18.85	0.077	18.94	0.078	18.98	0.079
3	16QAM	8	7	18.88	0.077	18.96	0.079	18.96	0.079
3	16QAM	15	0	18.88	0.077	18.80	0.076	18.82	0.076
3	64QAM	1	0	18.95	0.079	18.67	0.074	18.65	0.073
3	64QAM	1	8	18.97	0.079	18.81	0.076	18.62	0.073
3	64QAM	1	14	18.86	0.077	18.79	0.076	18.71	0.074
3	64QAM	8	0	18.71	0.074	18.72	0.074	18.81	0.076
3	64QAM	8	4	18.63	0.073	18.66	0.073	18.83	0.076
3	64QAM	8	7	18.61	0.073	18.81	0.076	18.80	0.076
3	64QAM	15	0	18.74	0.075	18.76	0.075	18.68	0.074



LTE Band 4				Measured E.I.R.P. (dBm)					
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	20.95	0.124	20.88	0.122	20.81	0.121
1.4	QPSK	1	3	20.93	0.124	20.89	0.123	20.94	0.124
1.4	QPSK	1	5	20.86	0.122	20.87	0.122	20.86	0.122
1.4	QPSK	3	0	20.91	0.123	20.79	0.120	20.82	0.121
1.4	QPSK	3	1	20.82	0.121	20.83	0.121	20.86	0.122
1.4	QPSK	3	3	20.91	0.123	20.70	0.117	20.84	0.121
1.4	QPSK	6	0	19.92	0.098	19.73	0.094	19.88	0.097
1.4	16QAM	1	0	19.70	0.093	19.90	0.098	19.94	0.099
1.4	16QAM	1	3	19.90	0.098	19.88	0.097	19.89	0.097
1.4	16QAM	1	5	19.77	0.095	19.76	0.095	19.88	0.097
1.4	16QAM	3	0	19.89	0.097	19.94	0.099	19.89	0.097
1.4	16QAM	3	1	19.81	0.096	20.00	0.100	19.95	0.099
1.4	16QAM	3	3	19.89	0.097	19.94	0.099	19.89	0.097
1.4	16QAM	6	0	18.94	0.078	18.86	0.077	18.80	0.076
1.4	64QAM	1	0	18.91	0.078	18.74	0.075	18.61	0.073
1.4	64QAM	1	3	18.94	0.078	18.81	0.076	18.67	0.074
1.4	64QAM	1	5	18.86	0.077	18.79	0.076	18.68	0.074
1.4	64QAM	3	0	18.74	0.075	18.71	0.074	18.82	0.076
1.4	64QAM	3	1	18.66	0.073	18.70	0.074	18.78	0.076
1.4	64QAM	3	3	18.65	0.073	18.84	0.077	18.87	0.077
1.4	64QAM	6	0	18.75	0.075	18.70	0.074	18.62	0.073



LTE Band 5				Measured E.R.P. (dBm)					
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	18.33	0.068	18.35	0.068	18.31	0.068
10	QPSK	1	25	18.26	0.067	18.19	0.066	18.33	0.068
10	QPSK	1	49	18.28	0.067	18.28	0.067	18.19	0.066
10	QPSK	25	0	17.26	0.053	17.41	0.055	17.37	0.055
10	QPSK	25	12	17.27	0.053	17.39	0.055	17.25	0.053
10	QPSK	25	25	17.18	0.052	17.41	0.055	17.26	0.053
10	QPSK	50	0	17.16	0.052	17.31	0.054	17.32	0.054
10	16QAM	1	0	17.37	0.055	17.62	0.058	17.49	0.056
10	16QAM	1	25	17.59	0.057	17.54	0.057	17.61	0.058
10	16QAM	1	49	17.50	0.056	17.61	0.058	17.47	0.056
10	16QAM	25	0	16.20	0.042	16.34	0.043	16.21	0.042
10	16QAM	25	12	16.27	0.042	16.43	0.044	16.40	0.044
10	16QAM	25	25	16.41	0.044	16.39	0.044	16.45	0.044
10	16QAM	50	0	16.21	0.042	16.31	0.043	16.26	0.042
10	64QAM	1	0	16.14	0.041	16.34	0.043	16.36	0.043
10	64QAM	1	25	16.19	0.042	16.32	0.043	16.37	0.043
10	64QAM	1	49	16.23	0.042	16.30	0.043	16.33	0.043
10	64QAM	25	0	16.27	0.042	16.13	0.041	16.28	0.042
10	64QAM	25	12	16.30	0.043	16.35	0.043	16.31	0.043
10	64QAM	25	25	16.38	0.043	16.33	0.043	16.27	0.042
10	64QAM	50	0	16.16	0.041	16.15	0.041	16.20	0.042



LTE Band 5				Measured E.R.P. (dBm)					
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	18.23	0.067	18.24	0.067	18.27	0.067
5	QPSK	1	12	18.19	0.066	18.12	0.065	18.24	0.067
5	QPSK	1	24	18.21	0.066	18.26	0.067	18.10	0.065
5	QPSK	12	0	17.11	0.051	17.29	0.054	17.38	0.055
5	QPSK	12	7	17.17	0.052	17.34	0.054	17.20	0.052
5	QPSK	12	13	17.11	0.051	17.36	0.054	17.25	0.053
5	QPSK	25	0	17.13	0.052	17.25	0.053	17.22	0.053
5	16QAM	1	0	17.36	0.054	17.52	0.056	17.42	0.055
5	16QAM	1	12	17.49	0.056	17.51	0.056	17.53	0.057
5	16QAM	1	24	17.47	0.056	17.59	0.057	17.45	0.056
5	16QAM	12	0	16.10	0.041	16.24	0.042	16.18	0.041
5	16QAM	12	7	16.17	0.041	16.42	0.044	16.34	0.043
5	16QAM	12	13	16.33	0.043	16.36	0.043	16.38	0.043
5	16QAM	25	0	16.17	0.041	16.21	0.042	16.17	0.041
5	64QAM	1	0	16.19	0.042	16.31	0.043	16.33	0.043
5	64QAM	1	12	16.13	0.041	16.22	0.042	16.30	0.043
5	64QAM	1	24	16.15	0.041	16.20	0.042	16.32	0.043
5	64QAM	12	0	16.19	0.042	16.10	0.041	16.27	0.042
5	64QAM	12	7	16.28	0.042	16.31	0.043	16.29	0.043
5	64QAM	12	13	16.36	0.043	16.25	0.042	16.24	0.042
5	64QAM	25	0	16.15	0.041	16.11	0.041	16.12	0.041



LTE Band 5				Measured E.R.P. (dBm)					
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	18.29	0.067	18.17	0.066	18.33	0.068
3	QPSK	1	8	18.21	0.066	18.09	0.064	18.28	0.067
3	QPSK	1	14	18.19	0.066	18.20	0.066	18.18	0.066
3	QPSK	8	0	17.07	0.051	17.37	0.055	17.34	0.054
3	QPSK	8	4	17.24	0.053	17.32	0.054	17.21	0.053
3	QPSK	8	7	17.16	0.052	17.34	0.054	17.21	0.053
3	QPSK	15	0	17.06	0.051	17.26	0.053	17.26	0.053
3	16QAM	1	0	17.28	0.053	17.53	0.057	17.41	0.055
3	16QAM	1	8	17.50	0.056	17.47	0.056	17.57	0.057
3	16QAM	1	14	17.42	0.055	17.51	0.056	17.37	0.055
3	16QAM	8	0	16.14	0.041	16.26	0.042	16.19	0.042
3	16QAM	8	4	16.17	0.041	16.36	0.043	16.32	0.043
3	16QAM	8	7	16.32	0.043	16.33	0.043	16.37	0.043
3	16QAM	15	0	16.18	0.041	16.21	0.042	16.18	0.041
3	64QAM	1	0	16.19	0.042	16.28	0.042	16.27	0.042
3	64QAM	1	8	16.22	0.042	16.31	0.043	16.33	0.043
3	64QAM	1	14	16.15	0.041	16.23	0.042	16.27	0.042
3	64QAM	8	0	16.19	0.042	16.08	0.041	16.19	0.042
3	64QAM	8	4	16.28	0.042	16.25	0.042	16.30	0.043
3	64QAM	8	7	16.35	0.043	16.30	0.043	16.26	0.042
3	64QAM	15	0	16.14	0.041	16.09	0.041	16.10	0.041



LTE Band 5				Measured E.R.P. (dBm)					
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	18.31	0.068	18.25	0.067	18.32	0.068
1.4	QPSK	1	3	18.16	0.065	18.17	0.066	18.24	0.067
1.4	QPSK	1	5	18.27	0.067	18.26	0.067	18.11	0.065
1.4	QPSK	3	0	18.17	0.066	18.32	0.068	18.26	0.067
1.4	QPSK	3	1	18.21	0.066	18.30	0.068	18.22	0.066
1.4	QPSK	3	3	18.15	0.065	18.32	0.068	18.18	0.066
1.4	QPSK	6	0	17.09	0.051	17.24	0.053	17.31	0.054
1.4	16QAM	1	0	17.27	0.053	17.53	0.057	17.45	0.056
1.4	16QAM	1	3	17.58	0.057	17.52	0.056	17.55	0.057
1.4	16QAM	1	5	17.48	0.056	17.59	0.057	17.43	0.055
1.4	16QAM	3	0	17.15	0.052	17.30	0.054	17.22	0.053
1.4	16QAM	3	1	17.19	0.052	17.33	0.054	17.37	0.055
1.4	16QAM	3	3	17.33	0.054	17.31	0.054	17.36	0.054
1.4	16QAM	6	0	16.19	0.042	16.27	0.042	16.17	0.041
1.4	64QAM	1	0	17.20	0.052	16.24	0.042	16.26	0.042
1.4	64QAM	1	3	17.19	0.052	16.30	0.043	16.31	0.043
1.4	64QAM	1	5	16.20	0.042	16.24	0.042	16.23	0.042
1.4	64QAM	3	0	16.23	0.042	16.19	0.042	16.22	0.042
1.4	64QAM	3	1	16.24	0.042	16.32	0.043	16.25	0.042
1.4	64QAM	3	3	16.30	0.043	16.28	0.042	16.21	0.042
1.4	64QAM	6	0	16.09	0.041	16.11	0.041	16.19	0.042



LTE Band 12				Measured E.R.P. (dBm)					
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	18.27	0.067	18.37	0.069	18.34	0.068
10	QPSK	1	25	18.21	0.066	18.23	0.067	18.31	0.068
10	QPSK	1	49	18.21	0.066	18.21	0.066	18.21	0.066
10	QPSK	25	0	17.49	0.056	17.52	0.056	17.45	0.056
10	QPSK	25	12	17.36	0.054	17.25	0.053	17.29	0.054
10	QPSK	25	25	17.51	0.056	17.23	0.053	17.21	0.053
10	QPSK	50	0	17.48	0.056	17.26	0.053	17.50	0.056
10	16QAM	1	0	17.58	0.057	17.44	0.055	17.56	0.057
10	16QAM	1	25	17.53	0.057	17.56	0.057	17.47	0.056
10	16QAM	1	49	17.42	0.055	17.49	0.056	17.35	0.054
10	16QAM	25	0	16.56	0.045	16.40	0.044	16.30	0.043
10	16QAM	25	12	16.47	0.044	16.34	0.043	16.26	0.042
10	16QAM	25	25	16.45	0.044	16.32	0.043	16.16	0.041
10	16QAM	50	0	16.28	0.042	16.25	0.042	16.31	0.043
10	64QAM	1	0	16.30	0.043	16.21	0.042	16.28	0.042
10	64QAM	1	25	16.25	0.042	16.37	0.043	16.25	0.042
10	64QAM	1	49	16.31	0.043	16.33	0.043	16.34	0.043
10	64QAM	25	0	16.18	0.041	16.28	0.042	16.22	0.042
10	64QAM	25	12	16.20	0.042	16.30	0.043	16.23	0.042
10	64QAM	25	25	16.23	0.042	16.25	0.042	16.21	0.042
10	64QAM	50	0	16.16	0.041	16.50	0.045	16.19	0.042



LTE Band 12				Measured E.R.P. (dBm)					
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	18.18	0.066	18.19	0.066	18.30	0.068
5	QPSK	1	12	18.12	0.065	18.13	0.065	18.25	0.067
5	QPSK	1	24	18.13	0.065	18.20	0.066	18.15	0.065
5	QPSK	12	0	17.39	0.055	17.15	0.052	17.44	0.055
5	QPSK	12	7	17.32	0.054	17.15	0.052	17.20	0.052
5	QPSK	12	13	17.45	0.056	17.22	0.053	17.12	0.052
5	QPSK	25	0	17.39	0.055	17.23	0.053	17.49	0.056
5	16QAM	1	0	17.50	0.056	17.40	0.055	17.54	0.057
5	16QAM	1	12	17.49	0.056	17.52	0.056	17.46	0.056
5	16QAM	1	24	17.39	0.055	17.40	0.055	17.34	0.054
5	16QAM	12	0	16.55	0.045	16.30	0.043	16.28	0.042
5	16QAM	12	7	16.37	0.043	16.26	0.042	16.19	0.042
5	16QAM	12	13	16.44	0.044	16.29	0.043	16.09	0.041
5	16QAM	25	0	16.27	0.042	16.15	0.041	16.21	0.042
5	64QAM	1	0	16.24	0.042	16.17	0.041	16.25	0.042
5	64QAM	1	12	16.24	0.042	16.32	0.043	16.15	0.041
5	64QAM	1	24	16.23	0.042	16.23	0.042	16.25	0.042
5	64QAM	12	0	16.14	0.041	16.27	0.042	16.12	0.041
5	64QAM	12	7	16.11	0.041	16.21	0.042	16.17	0.041
5	64QAM	12	13	16.21	0.042	16.18	0.041	16.18	0.041
5	64QAM	25	0	16.07	0.040	16.44	0.044	16.09	0.041



LTE Band 12				Measured E.R.P. (dBm)					
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	18.11	0.065	18.13	0.065	18.27	0.067
3	QPSK	1	8	18.19	0.066	18.15	0.065	18.27	0.067
3	QPSK	1	14	18.18	0.066	18.15	0.065	18.17	0.066
3	QPSK	8	0	17.42	0.055	17.16	0.052	17.43	0.055
3	QPSK	8	4	17.26	0.053	17.23	0.053	17.22	0.053
3	QPSK	8	7	17.45	0.056	17.18	0.052	17.13	0.052
3	QPSK	15	0	17.41	0.055	17.22	0.053	17.43	0.055
3	16QAM	1	0	17.52	0.056	17.39	0.055	17.49	0.056
3	16QAM	1	8	17.44	0.055	17.50	0.056	17.37	0.055
3	16QAM	1	14	17.34	0.054	17.45	0.056	17.33	0.054
3	16QAM	8	0	16.53	0.045	16.31	0.043	16.27	0.042
3	16QAM	8	4	16.44	0.044	16.30	0.043	16.24	0.042
3	16QAM	8	7	16.42	0.044	16.23	0.042	16.15	0.041
3	16QAM	15	0	16.19	0.042	16.22	0.042	16.26	0.042
3	64QAM	1	0	16.29	0.043	16.12	0.041	16.18	0.041
3	64QAM	1	8	16.17	0.041	16.29	0.043	16.20	0.042
3	64QAM	1	14	16.21	0.042	16.25	0.042	16.28	0.042
3	64QAM	8	0	16.10	0.041	16.27	0.042	16.15	0.041
3	64QAM	8	4	16.12	0.041	16.20	0.042	16.20	0.042
3	64QAM	8	7	16.19	0.042	16.24	0.042	16.15	0.041
3	64QAM	15	0	16.13	0.041	16.48	0.044	16.10	0.041



LTE Band 12				Measured E.R.P. (dBm)					
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	18.18	0.066	18.15	0.065	18.29	0.067
1.4	QPSK	1	3	18.15	0.065	18.19	0.066	18.26	0.067
1.4	QPSK	1	5	18.19	0.066	18.11	0.065	18.13	0.065
1.4	QPSK	3	0	18.15	0.065	18.20	0.066	18.07	0.064
1.4	QPSK	3	1	17.95	0.062	18.16	0.065	18.22	0.066
1.4	QPSK	3	3	18.05	0.064	18.19	0.066	18.17	0.066
1.4	QPSK	6	0	17.44	0.055	17.20	0.052	17.42	0.055
1.4	16QAM	1	0	17.56	0.057	17.39	0.055	17.52	0.056
1.4	16QAM	1	3	17.52	0.056	17.54	0.057	17.42	0.055
1.4	16QAM	1	5	17.37	0.055	17.40	0.055	17.29	0.054
1.4	16QAM	3	0	17.48	0.056	17.37	0.055	17.25	0.053
1.4	16QAM	3	1	17.39	0.055	17.30	0.054	17.19	0.052
1.4	16QAM	3	3	17.41	0.055	17.27	0.053	17.10	0.051
1.4	16QAM	6	0	16.27	0.042	16.23	0.042	16.26	0.042
1.4	64QAM	1	0	16.29	0.043	16.15	0.041	16.26	0.042
1.4	64QAM	1	3	16.15	0.041	16.29	0.043	16.17	0.041
1.4	64QAM	1	5	16.28	0.042	16.29	0.043	16.24	0.042
1.4	64QAM	3	0	16.14	0.041	16.23	0.042	16.16	0.041
1.4	64QAM	3	1	16.11	0.041	16.22	0.042	16.22	0.042
1.4	64QAM	3	3	16.17	0.041	16.17	0.041	16.15	0.041
1.4	64QAM	6	0	16.14	0.041	16.43	0.044	16.16	0.041



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	20.47	0.111	20.53	0.113	20.48	0.112
20	QPSK	1	49	20.37	0.109	20.38	0.109	20.39	0.109
20	QPSK	1	99	20.37	0.109	20.40	0.110	20.30	0.107
20	QPSK	50	0	19.54	0.090	19.60	0.091	19.52	0.090
20	QPSK	50	24	19.42	0.087	19.54	0.090	19.47	0.089
20	QPSK	50	50	19.57	0.091	19.55	0.090	19.46	0.088
20	QPSK	100	0	19.49	0.089	19.55	0.090	19.51	0.089
20	16QAM	1	0	19.43	0.088	19.57	0.091	19.77	0.095
20	16QAM	1	49	19.84	0.096	19.68	0.093	19.73	0.094
20	16QAM	1	99	19.76	0.095	19.57	0.091	19.62	0.092
20	16QAM	50	0	18.56	0.072	18.49	0.071	18.52	0.071
20	16QAM	50	24	18.52	0.071	18.53	0.071	18.54	0.071
20	16QAM	50	50	18.40	0.069	18.46	0.070	18.57	0.072
20	16QAM	100	0	18.51	0.071	18.51	0.071	18.56	0.072
20	64QAM	1	0	18.48	0.070	18.55	0.072	18.76	0.075
20	64QAM	1	49	18.51	0.071	18.36	0.069	18.75	0.075
20	64QAM	1	99	18.43	0.070	18.29	0.067	18.68	0.074
20	64QAM	50	0	18.21	0.066	18.15	0.065	18.58	0.072
20	64QAM	50	24	18.52	0.071	18.55	0.072	18.55	0.072
20	64QAM	50	50	18.38	0.069	18.47	0.070	18.55	0.072
20	64QAM	100	0	18.48	0.070	18.49	0.071	18.57	0.072



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	20.33	0.108	20.38	0.109	20.30	0.107
15	QPSK	1	37	20.35	0.108	20.28	0.107	20.37	0.109
15	QPSK	1	74	20.33	0.108	20.32	0.108	20.26	0.106
15	QPSK	36	0	19.35	0.086	19.51	0.089	19.44	0.088
15	QPSK	36	20	19.33	0.086	19.52	0.090	19.42	0.087
15	QPSK	36	39	19.55	0.090	19.52	0.090	19.38	0.087
15	QPSK	75	0	19.48	0.089	19.43	0.088	19.49	0.089
15	16QAM	1	0	19.35	0.086	19.48	0.089	19.72	0.094
15	16QAM	1	37	19.75	0.094	19.63	0.092	19.63	0.092
15	16QAM	1	74	19.72	0.094	19.51	0.089	19.54	0.090
15	16QAM	36	0	18.51	0.071	18.40	0.069	18.47	0.070
15	16QAM	36	20	18.42	0.070	18.43	0.070	18.45	0.070
15	16QAM	36	39	18.36	0.069	18.42	0.070	18.55	0.072
15	16QAM	75	0	18.50	0.071	18.49	0.071	18.51	0.071
15	64QAM	1	0	18.40	0.069	18.47	0.070	18.70	0.074
15	64QAM	1	37	18.48	0.070	18.33	0.068	18.34	0.068
15	64QAM	1	74	18.34	0.068	18.20	0.066	18.25	0.067
15	64QAM	36	0	18.12	0.065	18.07	0.064	18.23	0.067
15	64QAM	36	20	18.46	0.070	18.49	0.071	18.47	0.070
15	64QAM	36	39	18.34	0.068	18.45	0.070	18.46	0.070
15	64QAM	75	0	18.41	0.069	18.45	0.070	18.56	0.072



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	20.31	0.107	20.34	0.108	20.27	0.106
10	QPSK	1	25	20.27	0.106	20.33	0.108	20.28	0.107
10	QPSK	1	49	20.28	0.107	20.33	0.108	20.29	0.107
10	QPSK	25	0	19.40	0.087	19.53	0.090	19.48	0.089
10	QPSK	25	12	19.38	0.087	19.50	0.089	19.37	0.086
10	QPSK	25	25	19.51	0.089	19.46	0.088	19.36	0.086
10	QPSK	50	0	19.44	0.088	19.43	0.088	19.42	0.087
10	16QAM	1	0	19.37	0.086	19.54	0.090	19.68	0.093
10	16QAM	1	25	19.82	0.096	19.64	0.092	19.63	0.092
10	16QAM	1	49	19.66	0.092	19.49	0.089	19.56	0.090
10	16QAM	25	0	18.54	0.071	18.41	0.069	18.51	0.071
10	16QAM	25	12	18.50	0.071	18.46	0.070	18.53	0.071
10	16QAM	25	25	18.37	0.069	18.39	0.069	18.47	0.070
10	16QAM	50	0	18.42	0.070	18.48	0.070	18.49	0.071
10	64QAM	1	0	18.46	0.070	18.45	0.070	18.71	0.074
10	64QAM	1	25	18.49	0.071	18.28	0.067	18.31	0.068
10	64QAM	1	49	18.37	0.069	18.22	0.066	18.30	0.068
10	64QAM	25	0	18.15	0.065	18.09	0.064	18.16	0.065
10	64QAM	25	12	18.47	0.070	18.51	0.071	18.49	0.071
10	64QAM	25	25	18.35	0.068	18.38	0.069	18.50	0.071
10	64QAM	50	0	18.40	0.069	18.46	0.070	18.47	0.070



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	20.33	0.108	20.39	0.109	20.23	0.105
5	QPSK	1	12	20.28	0.107	20.36	0.109	20.30	0.107
5	QPSK	1	24	20.28	0.107	20.33	0.108	20.21	0.105
5	QPSK	12	0	19.37	0.086	19.54	0.090	19.45	0.088
5	QPSK	12	7	19.35	0.086	19.47	0.089	19.44	0.088
5	QPSK	12	13	19.47	0.089	19.54	0.090	19.44	0.088
5	QPSK	25	0	19.39	0.087	19.50	0.089	19.50	0.089
5	16QAM	1	0	19.41	0.087	19.48	0.089	19.67	0.093
5	16QAM	1	12	19.80	0.095	19.61	0.091	19.68	0.093
5	16QAM	1	24	19.71	0.094	19.56	0.090	19.56	0.090
5	16QAM	12	0	18.47	0.070	18.43	0.070	18.44	0.070
5	16QAM	12	7	18.44	0.070	18.49	0.071	18.48	0.070
5	16QAM	12	13	18.39	0.069	18.45	0.070	18.47	0.070
5	16QAM	25	0	18.44	0.070	18.43	0.070	18.48	0.070
5	64QAM	1	0	18.09	0.064	18.18	0.066	18.36	0.069
5	64QAM	1	12	18.46	0.070	18.27	0.067	18.32	0.068
5	64QAM	1	24	18.34	0.068	18.23	0.067	18.32	0.068
5	64QAM	12	0	18.54	0.071	18.40	0.069	18.55	0.072
5	64QAM	12	7	18.45	0.070	18.48	0.070	18.46	0.070
5	64QAM	12	13	18.36	0.069	18.40	0.069	18.53	0.071
5	64QAM	25	0	18.44	0.070	18.47	0.070	18.52	0.071



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	20.32	0.108	20.42	0.110	20.26	0.106
3	QPSK	1	8	20.35	0.108	20.32	0.108	20.29	0.107
3	QPSK	1	14	20.31	0.107	20.31	0.107	20.26	0.106
3	QPSK	8	0	19.35	0.086	19.52	0.090	19.51	0.089
3	QPSK	8	4	19.38	0.087	19.51	0.089	19.45	0.088
3	QPSK	8	7	19.49	0.089	19.49	0.089	19.44	0.088
3	QPSK	15	0	19.44	0.088	19.49	0.089	19.50	0.089
3	16QAM	1	0	19.39	0.087	19.55	0.090	19.70	0.093
3	16QAM	1	8	19.78	0.095	19.58	0.091	19.70	0.093
3	16QAM	1	14	19.75	0.094	19.56	0.090	19.60	0.091
3	16QAM	8	0	18.47	0.070	18.40	0.069	18.46	0.070
3	16QAM	8	4	18.43	0.070	18.44	0.070	18.46	0.070
3	16QAM	8	7	18.33	0.068	18.39	0.069	18.54	0.071
3	16QAM	15	0	18.41	0.069	18.41	0.069	18.54	0.071
3	64QAM	1	0	18.04	0.064	18.11	0.065	18.40	0.069
3	64QAM	1	8	18.46	0.070	18.28	0.067	18.38	0.069
3	64QAM	1	14	18.35	0.068	18.28	0.067	18.27	0.067
3	64QAM	8	0	18.45	0.070	18.44	0.070	18.51	0.071
3	64QAM	8	4	18.45	0.070	18.50	0.071	18.47	0.070
3	64QAM	8	7	18.35	0.068	18.38	0.069	18.49	0.071
3	64QAM	15	0	18.41	0.069	18.45	0.070	18.56	0.072



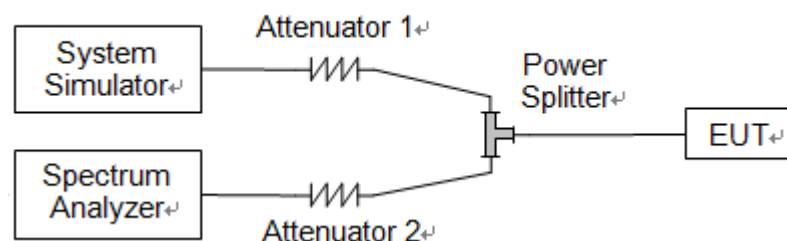
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	20.32	0.108	20.35	0.108	20.26	0.106
1.4	QPSK	1	3	20.33	0.108	20.31	0.107	20.34	0.108
1.4	QPSK	1	5	20.33	0.108	20.30	0.107	20.20	0.105
1.4	QPSK	3	0	20.42	0.110	20.33	0.108	20.49	0.112
1.4	QPSK	3	1	20.41	0.110	20.22	0.105	20.39	0.109
1.4	QPSK	3	3	20.47	0.111	20.15	0.104	20.43	0.110
1.4	QPSK	6	0	19.42	0.087	19.43	0.088	19.46	0.088
1.4	16QAM	1	0	19.42	0.087	19.50	0.089	19.76	0.095
1.4	16QAM	1	3	19.78	0.095	19.66	0.092	19.70	0.093
1.4	16QAM	1	5	19.68	0.093	19.48	0.089	19.56	0.090
1.4	16QAM	3	0	19.54	0.090	19.44	0.088	19.49	0.089
1.4	16QAM	3	1	19.49	0.089	19.50	0.089	19.50	0.089
1.4	16QAM	3	3	19.39	0.087	19.42	0.087	19.48	0.089
1.4	16QAM	6	0	18.50	0.071	18.47	0.070	18.48	0.070
1.4	64QAM	1	0	18.07	0.064	18.20	0.066	18.39	0.069
1.4	64QAM	1	3	18.50	0.071	18.35	0.068	18.40	0.069
1.4	64QAM	1	5	18.39	0.069	18.21	0.066	18.26	0.067
1.4	64QAM	3	0	18.48	0.070	18.41	0.069	18.54	0.071
1.4	64QAM	3	1	18.46	0.070	18.50	0.071	18.51	0.071
1.4	64QAM	3	3	18.36	0.069	18.41	0.069	18.51	0.071
1.4	64QAM	6	0	18.39	0.069	18.43	0.070	18.56	0.072

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	1.28
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.09	1.27
	Mid	16QAM	1.10	1.30
	Mid	64QAM	1.10	1.29
	High	QPSK	1.09	1.26
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.30
3	Low	QPSK	2.69	2.95
	Low	16QAM	2.69	2.93
	Low	64QAM	2.69	2.92
	Mid	QPSK	2.69	2.92
	Mid	16QAM	2.70	3.06
	Mid	64QAM	2.69	2.92
	High	QPSK	2.69	2.93
	High	16QAM	2.70	2.92
	High	64QAM	2.70	2.93
5	Low	QPSK	4.52	5.18
	Low	16QAM	4.51	5.16
	Low	64QAM	4.52	5.20
	Mid	QPSK	4.51	5.18
	Mid	16QAM	4.52	5.17
	Mid	64QAM	4.53	5.13
	High	QPSK	4.51	5.18
	High	16QAM	4.51	5.19
	High	64QAM	4.52	5.14
10	Low	QPSK	9.02	10.07
	Low	16QAM	8.99	9.99
	Low	64QAM	9.02	10.41
	Mid	QPSK	9.02	10.06
	Mid	16QAM	8.99	10.04
	Mid	64QAM	9.00	10.13
	High	QPSK	9.04	9.99
	High	16QAM	8.99	10.57
	High	64QAM	9.02	10.12



15	Low	QPSK	13.53	15.05
	Low	16QAM	13.49	14.95
	Low	64QAM	13.49	15.61
	Mid	QPSK	13.53	15.01
	Mid	16QAM	13.51	15.02
	Mid	64QAM	13.48	15.14
	High	QPSK	13.54	14.92
	High	16QAM	13.56	15.97
	High	64QAM	13.49	14.99
20	Low	QPSK	17.97	19.68
	Low	16QAM	18.01	19.73
	Low	64QAM	17.98	19.75
	Mid	QPSK	17.98	19.87
	Mid	16QAM	17.99	19.83
	Mid	64QAM	18.01	20.07
	High	QPSK	18.01	19.80
	High	16QAM	18.03	19.71
	High	64QAM	18.03	19.97



LTE Band 4				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.27
	Low	16QAM	1.10	1.30
	Low	64QAM	1.10	1.30
	Mid	QPSK	1.09	1.26
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.30
	High	QPSK	1.09	1.28
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.30
3	Low	QPSK	2.69	2.92
	Low	16QAM	2.69	2.93
	Low	64QAM	2.70	2.93
	Mid	QPSK	2.69	2.92
	Mid	16QAM	2.69	2.93
	Mid	64QAM	2.70	2.91
	High	QPSK	2.69	2.92
	High	16QAM	2.69	2.91
	High	64QAM	2.70	2.93
5	Low	QPSK	4.52	5.18
	Low	16QAM	4.52	5.14
	Low	64QAM	4.52	5.16
	Mid	QPSK	4.51	5.20
	Mid	16QAM	4.51	5.16
	Mid	64QAM	4.52	5.50
	High	QPSK	4.51	5.21
	High	16QAM	4.52	5.10
	High	64QAM	4.52	5.13
10	Low	QPSK	9.02	10.14
	Low	16QAM	8.99	9.95
	Low	64QAM	9.03	10.07
	Mid	QPSK	9.04	10.06
	Mid	16QAM	8.98	9.98
	Mid	64QAM	9.01	10.06
	High	QPSK	9.03	10.02
	High	16QAM	8.99	9.96
	High	64QAM	9.00	10.09



15	Low	QPSK	13.52	15.07
	Low	16QAM	13.52	15.14
	Low	64QAM	13.49	15.07
	Mid	QPSK	13.46	14.86
	Mid	16QAM	13.47	15.09
	Mid	64QAM	13.45	15.11
	High	QPSK	13.52	15.03
	High	16QAM	13.49	15.00
	High	64QAM	13.48	14.99
20	Low	QPSK	17.99	20.01
	Low	16QAM	18.01	19.73
	Low	64QAM	17.99	19.78
	Mid	QPSK	17.94	19.65
	Mid	16QAM	17.96	19.64
	Mid	64QAM	17.96	19.66
	High	QPSK	17.97	19.71
	High	16QAM	17.99	19.72
	High	64QAM	17.98	19.63



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.27
	Low	16QAM	1.10	1.31
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.09	1.28
	Mid	16QAM	1.09	1.28
	Mid	64QAM	1.10	1.31
	High	QPSK	1.10	1.27
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.35
3	Low	QPSK	2.69	2.93
	Low	16QAM	2.69	2.93
	Low	64QAM	2.69	2.92
	Mid	QPSK	2.69	2.92
	Mid	16QAM	2.69	2.92
	Mid	64QAM	2.70	2.93
	High	QPSK	2.69	2.92
	High	16QAM	2.69	2.93
	High	64QAM	2.70	2.92
5	Low	QPSK	4.51	5.11
	Low	16QAM	4.51	5.18
	Low	64QAM	4.53	5.16
	Mid	QPSK	4.51	5.20
	Mid	16QAM	4.52	5.19
	Mid	64QAM	4.53	5.17
	High	QPSK	4.52	5.21
	High	16QAM	4.51	5.15
	High	64QAM	4.54	5.17
10	Low	QPSK	9.02	10.07
	Low	16QAM	8.97	9.95
	Low	64QAM	9.01	11.12
	Mid	QPSK	9.03	10.04
	Mid	16QAM	9.00	10.00
	Mid	64QAM	9.03	10.22
	High	QPSK	9.01	9.96
	High	16QAM	8.97	9.89
	High	64QAM	9.00	10.13



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.28
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.10	1.31
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.30
	High	16QAM	1.10	1.30
	High	64QAM	1.10	1.28
3	Low	QPSK	2.69	2.92
	Low	16QAM	2.69	2.93
	Low	64QAM	2.70	2.92
	Mid	QPSK	2.69	2.92
	Mid	16QAM	2.70	2.93
	Mid	64QAM	2.70	2.91
	High	QPSK	2.70	2.93
	High	16QAM	2.69	2.91
	High	64QAM	2.70	2.92
5	Low	QPSK	4.52	5.17
	Low	16QAM	4.51	5.15
	Low	64QAM	4.53	5.17
	Mid	QPSK	4.52	5.18
	Mid	16QAM	4.52	5.18
	Mid	64QAM	4.52	5.13
	High	QPSK	4.52	5.22
	High	16QAM	4.52	5.18
	High	64QAM	4.53	5.14
10	Low	QPSK	9.06	10.05
	Low	16QAM	9.03	9.98
	Low	64QAM	9.05	10.09
	Mid	QPSK	9.00	9.97
	Mid	16QAM	8.98	9.90
	Mid	64QAM	9.00	10.07
	High	QPSK	9.02	10.00
	High	16QAM	8.97	9.92
	High	64QAM	8.96	10.06



LTE Band 66				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.29
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.09	1.29
	Mid	16QAM	1.10	1.30
	Mid	64QAM	1.10	1.30
	High	QPSK	1.09	1.27
	High	16QAM	1.09	1.28
	High	64QAM	1.10	1.30
3	Low	QPSK	2.69	2.92
	Low	16QAM	2.69	2.93
	Low	64QAM	2.70	2.92
	Mid	QPSK	2.69	2.92
	Mid	16QAM	2.69	2.92
	Mid	64QAM	2.70	2.98
	High	QPSK	2.69	2.91
	High	16QAM	2.69	2.92
	High	64QAM	2.69	2.92
5	Low	QPSK	4.52	5.17
	Low	16QAM	4.51	5.16
	Low	64QAM	4.53	5.14
	Mid	QPSK	4.52	5.23
	Mid	16QAM	4.51	5.20
	Mid	64QAM	4.51	5.16
	High	QPSK	4.52	5.16
	High	16QAM	4.51	5.15
	High	64QAM	4.52	5.13
10	Low	QPSK	9.03	10.00
	Low	16QAM	9.00	9.93
	Low	64QAM	9.02	10.08
	Mid	QPSK	9.01	10.03
	Mid	16QAM	8.99	9.95
	Mid	64QAM	9.01	10.10
	High	QPSK	9.01	10.10
	High	16QAM	8.98	9.97
	High	64QAM	8.99	10.04



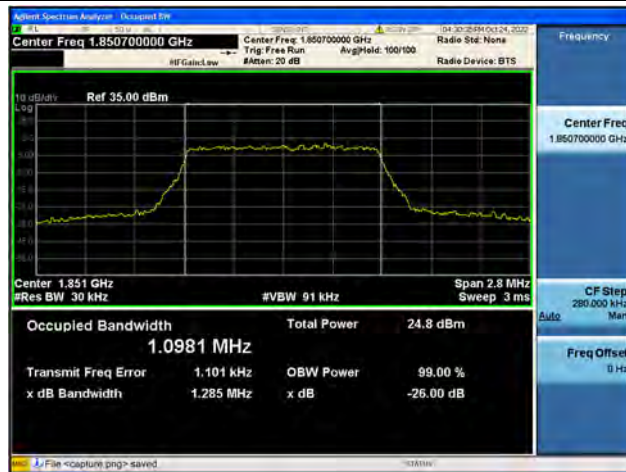
15	Low	QPSK	13.52	15.05
	Low	16QAM	13.52	15.17
	Low	64QAM	13.49	15.08
	Mid	QPSK	13.52	14.98
	Mid	16QAM	13.48	14.91
	Mid	64QAM	13.48	14.99
	High	QPSK	13.50	15.02
	High	16QAM	13.50	15.09
	High	64QAM	13.47	14.94
20	Low	QPSK	17.98	19.93
	Low	16QAM	18.01	19.76
	Low	64QAM	18.02	19.75
	Mid	QPSK	17.98	19.75
	Mid	16QAM	17.99	19.80
	Mid	64QAM	17.99	19.80
	High	QPSK	17.95	19.70
	High	16QAM	17.98	19.74
	High	64QAM	17.97	20.04



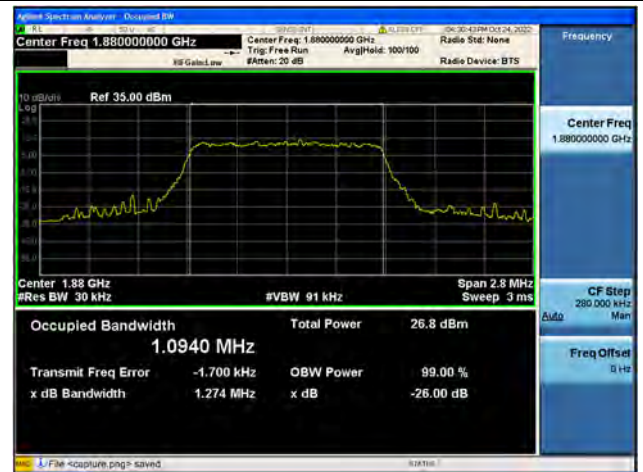
Band2 / 1.4MHz / QPSK/ Low CH



Band2 / 1.4MHz / 16QAM/ Low CH



Band2 / 1.4MHz / 64QAM/ Low CH



Band2 / 1.4MHz / QPSK/ Mid CH



Band2 / 1.4MHz / 16QAM/ Mid CH



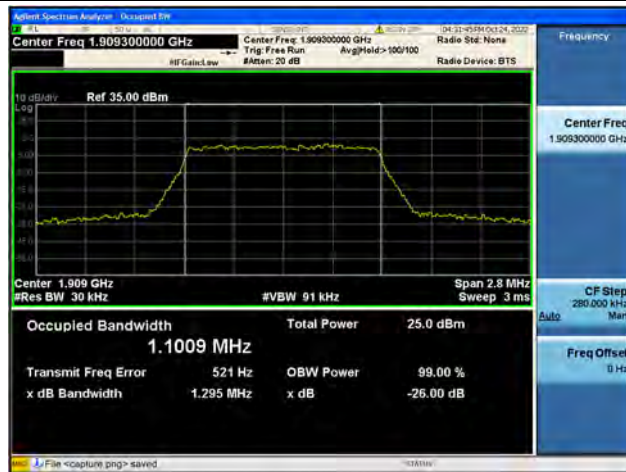
Band2 / 1.4MHz / 64QAM/ Mid CH



Band2 / 1.4MHz / QPSK/ High CH



Band2 / 1.4MHz / 16QAM/ High CH



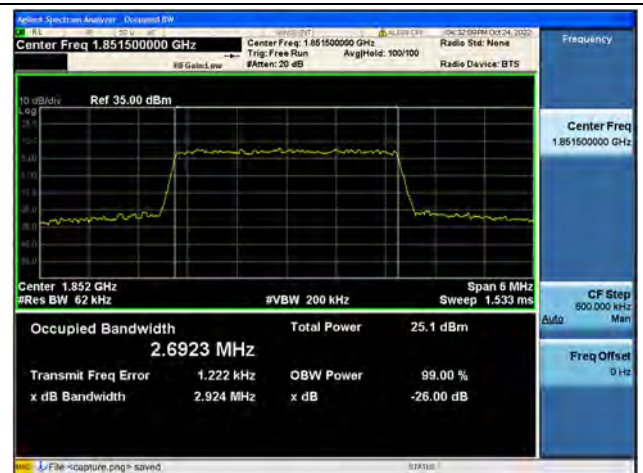
Band2 / 1.4MHz / 64QAM/ High CH



Band2 / 3MHz / QPSK/ Low CH



Band2 / 3MHz / 16QAM/ Low CH



Band2 / 3MHz / 64QAM/ Low CH



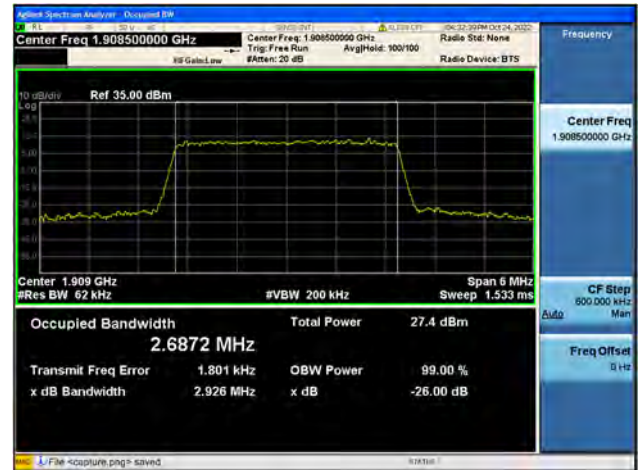
Band2 / 3MHz / QPSK/ Mid CH



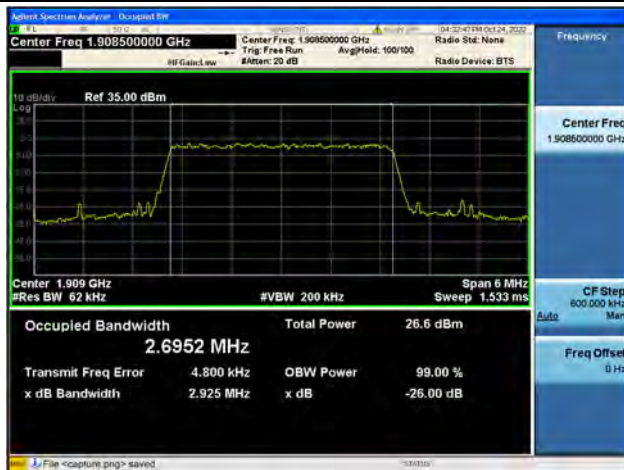
Band2 / 3MHz / 16QAM/ Mid CH



Band2 / 3MHz / 64QAM/ Mid CH



Band2 / 3MHz / QPSK/ High CH



Band2 / 3MHz / 16QAM/ High CH



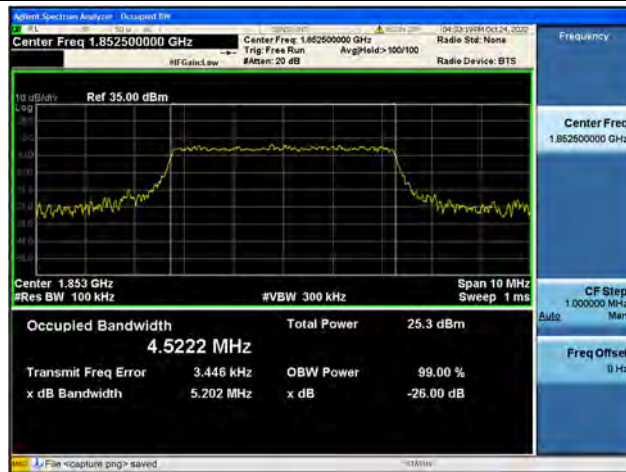
Band2 / 3MHz / 64QAM/ High CH



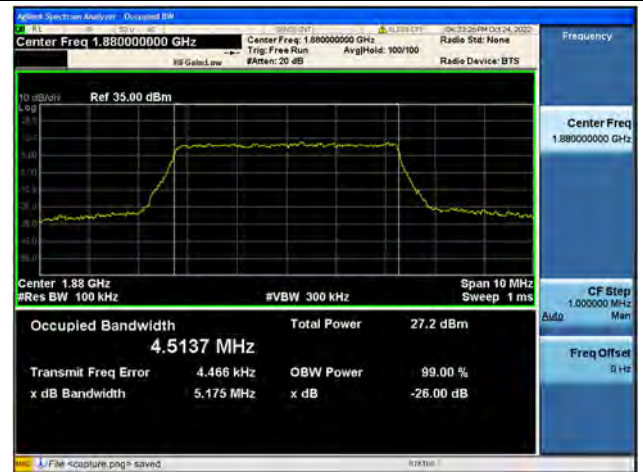
Band2 / 5MHz / QPSK/ Low CH



Band2 / 5MHz / 16QAM/ Low CH



Band2 / 5MHz / 64QAM/ Low CH



Band2 / 5MHz / QPSK/ Mid CH



Band2 / 5MHz / 16QAM/ Mid CH



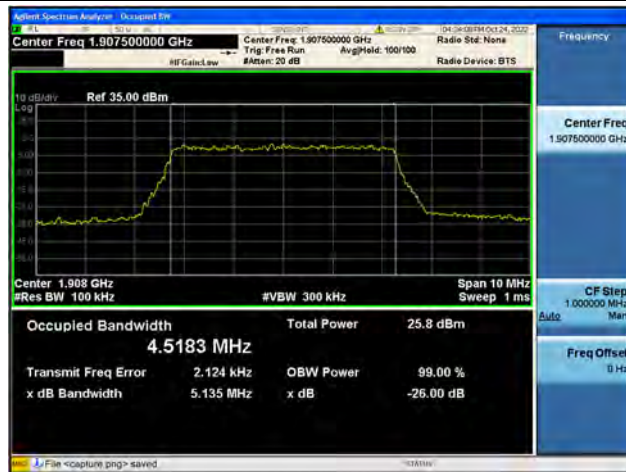
Band2 / 5MHz / 64QAM/ Mid CH



Band2 / 5MHz / QPSK/ High CH



Band2 / 5MHz / 16QAM/ High CH



Band2 / 5MHz / 64QAM/ High CH



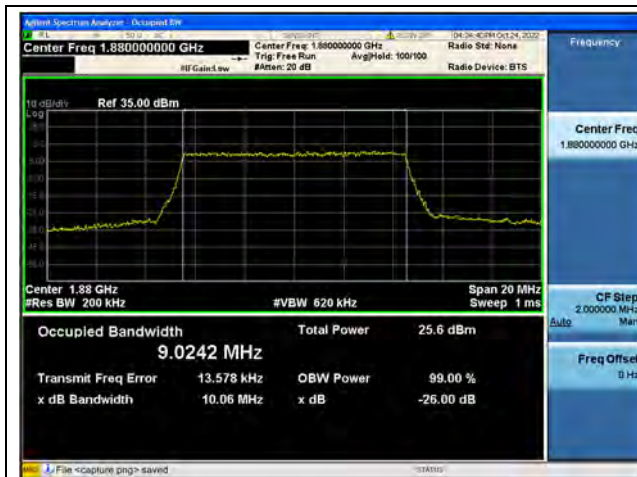
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Band2 / 10MHz / 16QAM/ Low CH



Band2 / 10MHz / 64QAM/ Low CH



Band2 / 10MHz / QPSK/ Mid CH



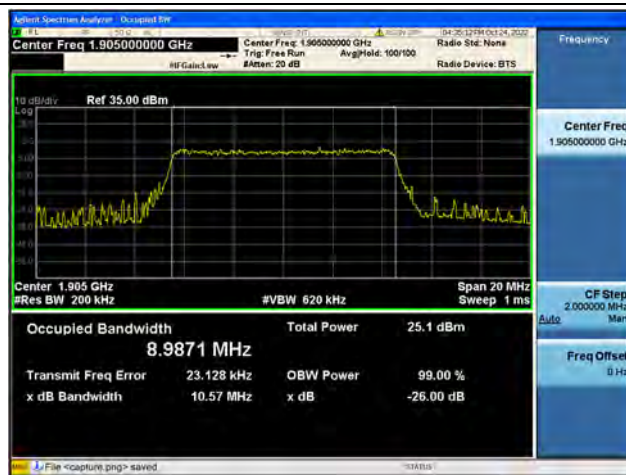
Band2 / 10MHz / 16QAM/ Mid CH



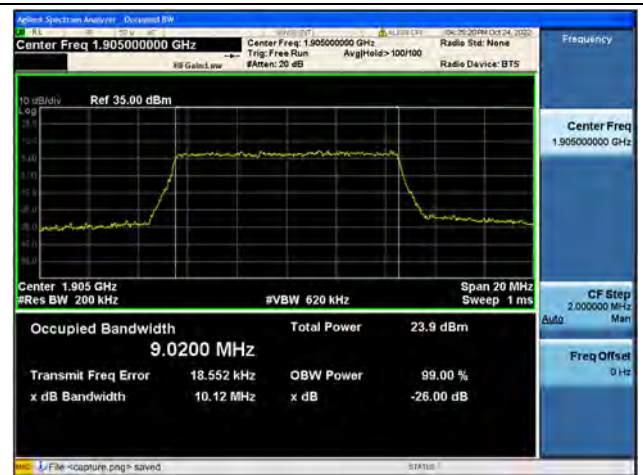
Band2 / 10MHz / 64QAM/ Mid CH



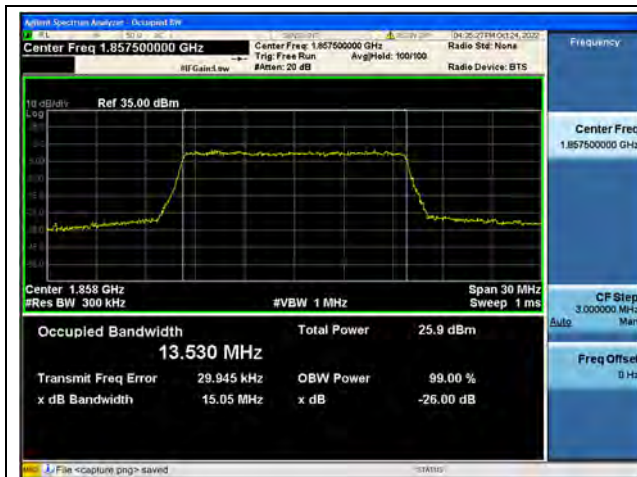
Band2 / 10MHz / QPSK/ High CH



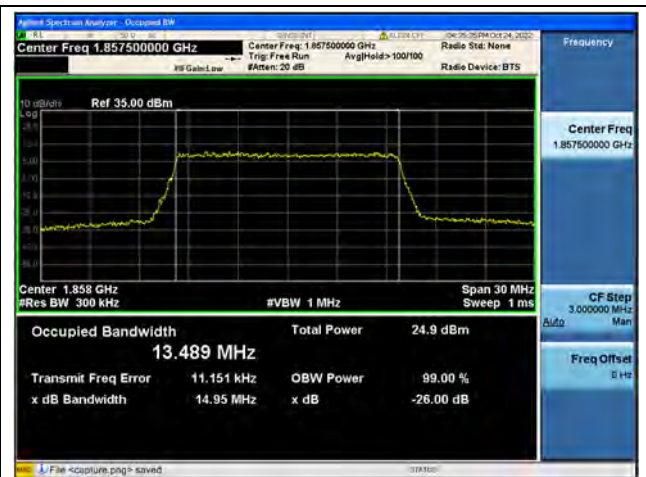
Band2 / 10MHz / 16QAM/ High CH



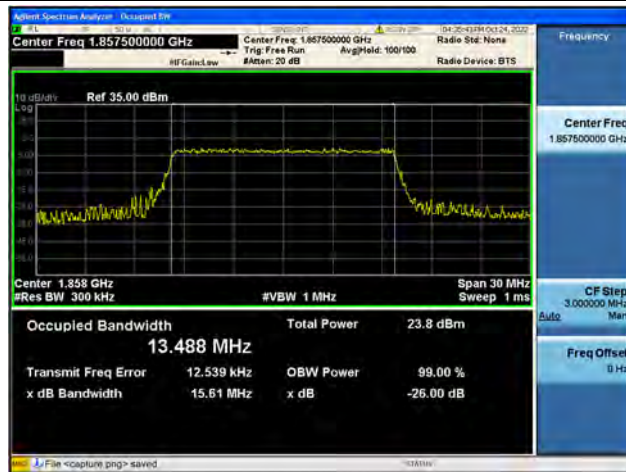
Band2 / 10MHz / 64QAM/ High CH



Band2 / 15MHz / QPSK/ Low CH



Band2 / 15MHz / 16QAM/ Low CH



Band2 / 15MHz / 64QAM/ Low CH



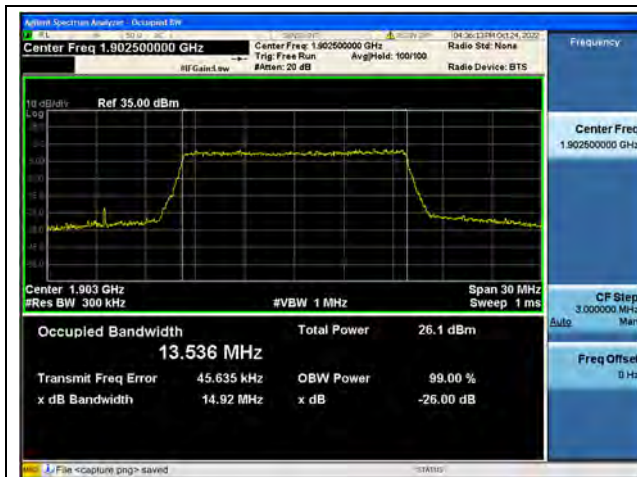
Band2 / 15MHz / QPSK/ Mid CH



Band2 / 15MHz / 16QAM/ Mid CH



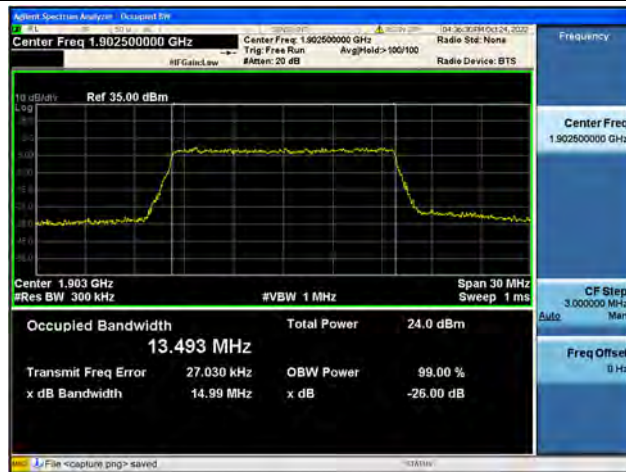
Band2 / 15MHz / 64QAM/ Mid CH



Band2 / 15MHz / QPSK/ High CH



Band2 / 15MHz / 16QAM/ High CH



Band2 / 15MHz / 64QAM/ High CH



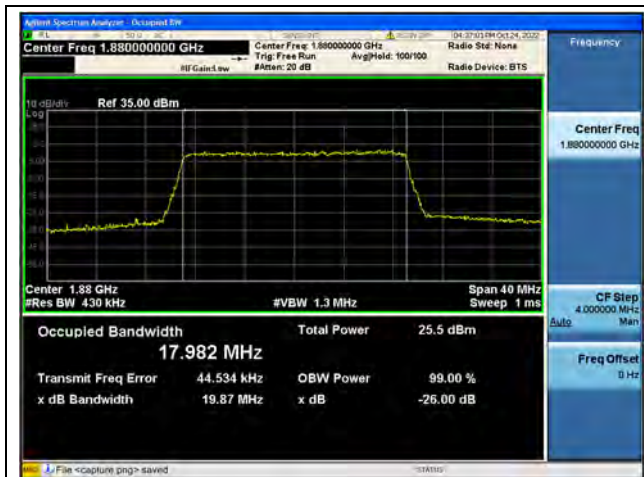
Band2 / 20MHz / QPSK/ Low CH



Band2 / 20MHz / 16QAM/ Low CH



Band2 / 20MHz / 64QAM/ Low CH



Band2 / 20MHz / QPSK/ Mid CH



Band2 / 20MHz / 16QAM/ Mid CH



Band2 / 20MHz / 64QAM/ Mid CH



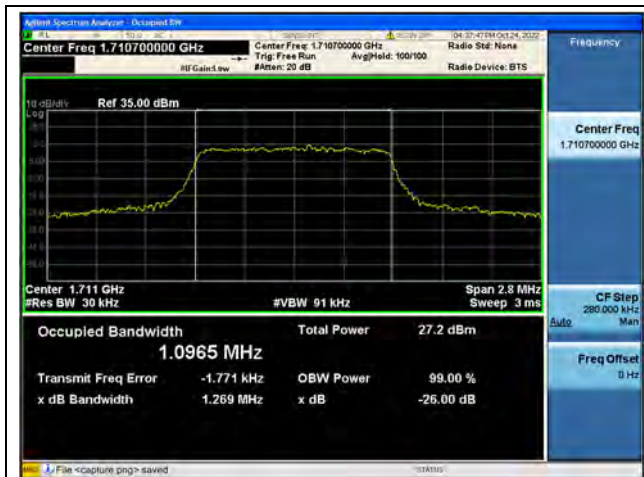
Band2 / 20MHz / QPSK/ High CH



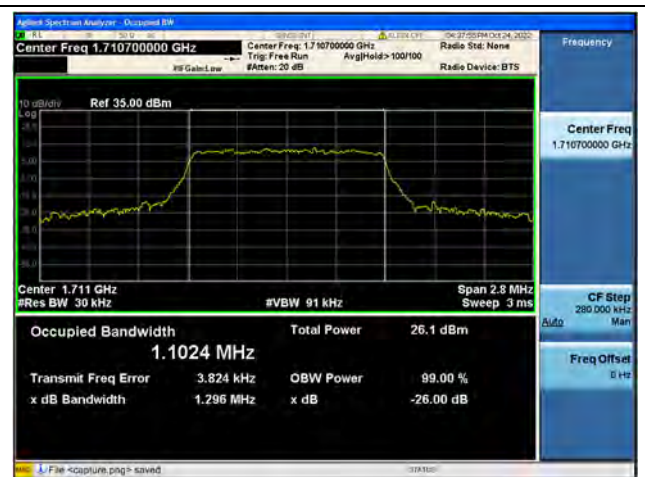
Band2 / 20MHz / 16QAM/ High CH



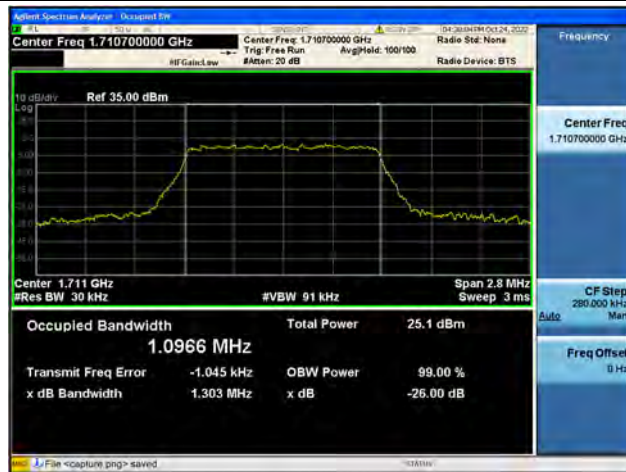
Band2 / 20MHz / 64QAM/ High CH



Band4 / 1.4MHz / QPSK/ Low CH



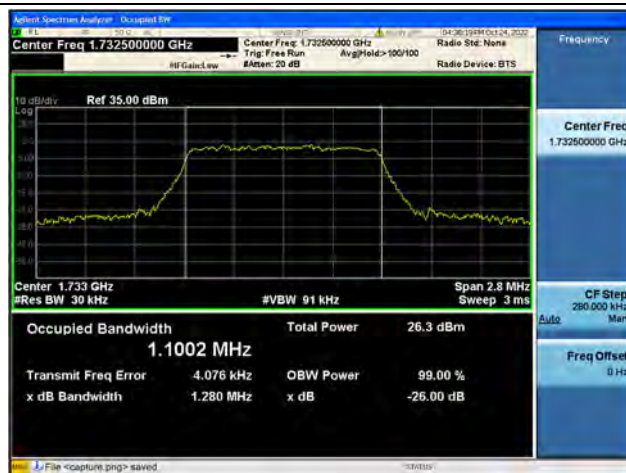
Band4 / 1.4MHz / 16QAM/ Low CH



Band4 / 1.4MHz / 64QAM/ Low CH



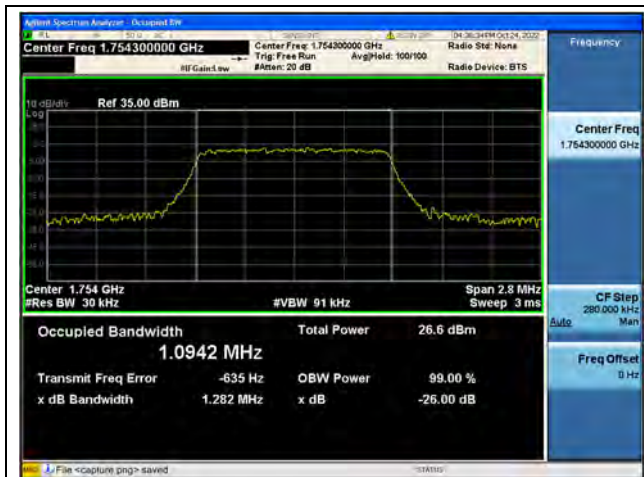
Band4 / 1.4MHz / QPSK/ Mid CH



Band4 / 1.4MHz / 16QAM/ Mid CH



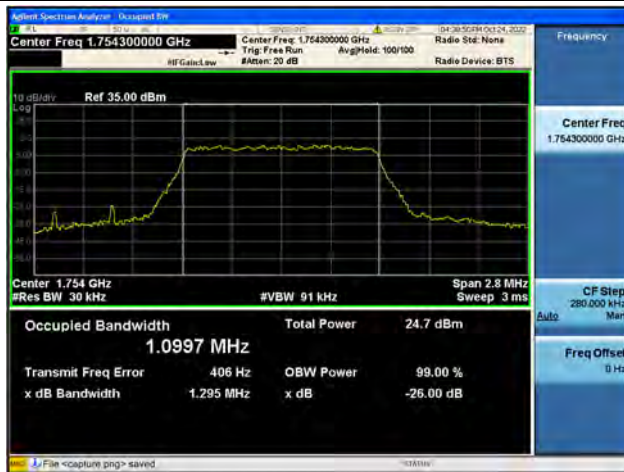
Band4 / 1.4MHz / 64QAM/ Mid CH



Band4 / 1.4MHz / QPSK/ High CH



Band4 / 1.4MHz / 16QAM/ High CH



Band4 / 1.4MHz / 64QAM/ High CH



Band4 / 3MHz / QPSK/ Low CH



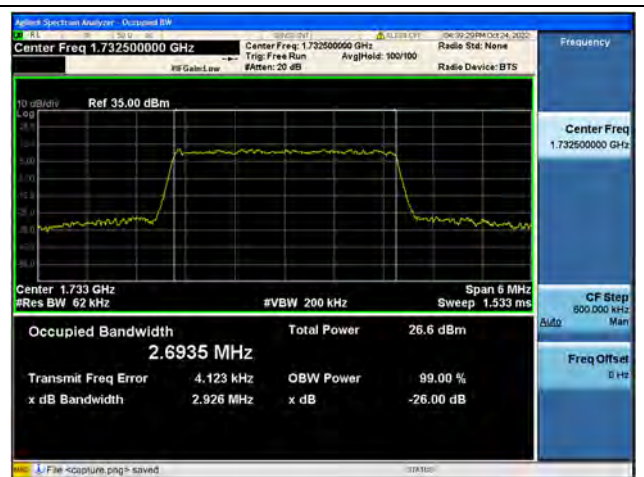
Band4 / 3MHz / 16QAM/ Low CH



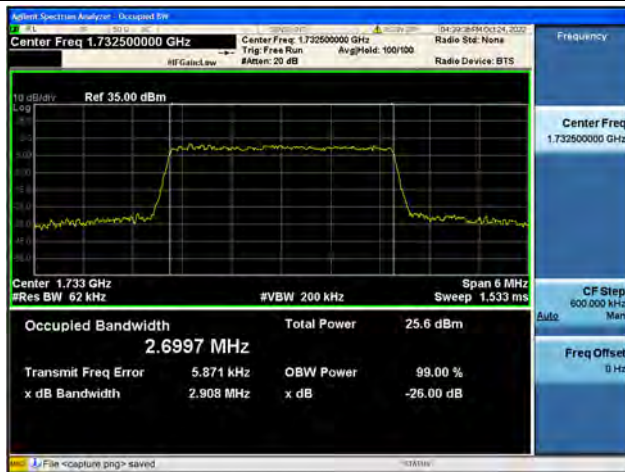
Band4 / 3MHz / 64QAM/ Low CH



Band4 / 3MHz / QPSK/ Mid CH



Band4 / 3MHz / 16QAM/ Mid CH



Band4 / 3MHz / 64QAM/ Mid CH



Band4 / 3MHz / QPSK/ High CH



Band4 / 3MHz / 16QAM/ High CH



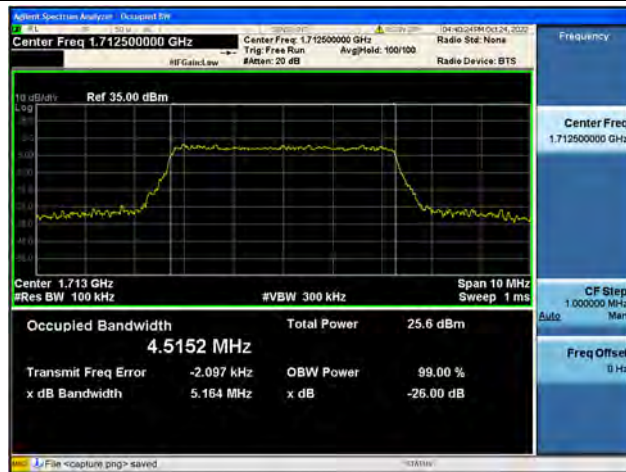
Band4 / 3MHz / 64QAM/ High CH



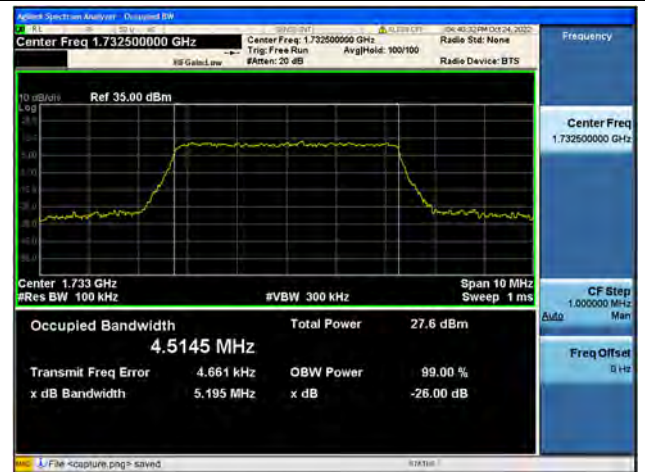
Band4 / 5MHz / QPSK/ Low CH



Band4 / 5MHz / 16QAM/ Low CH



Band4 / 5MHz / 64QAM/ Low CH



Band4 / 5MHz / QPSK/ Mid CH



Band4 / 5MHz / 16QAM/ Mid CH



Band4 / 5MHz / 64QAM/ Mid CH



Band4 / 5MHz / QPSK/ High CH



Band4 / 5MHz / 16QAM/ High CH



Band4 / 5MHz / 64QAM/ High CH



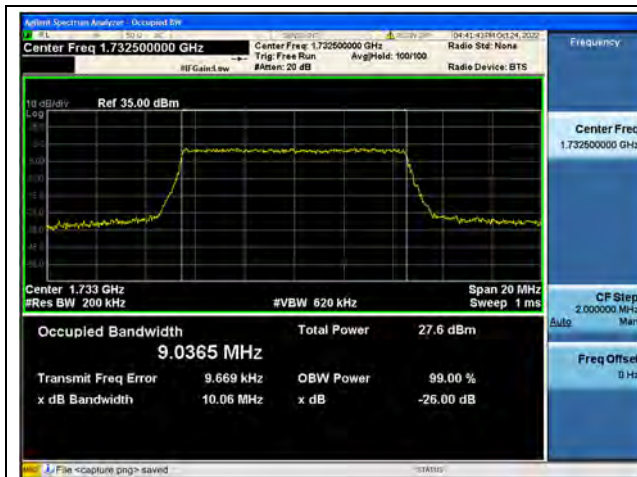
Band4 / 10MHz / QPSK/ Low CH



Band4 / 10MHz / 16QAM/ Low CH



Band4 / 10MHz / 64QAM/ Low CH



Band4 / 10MHz / QPSK/ Mid CH



Band4 / 10MHz / 16QAM/ Mid CH



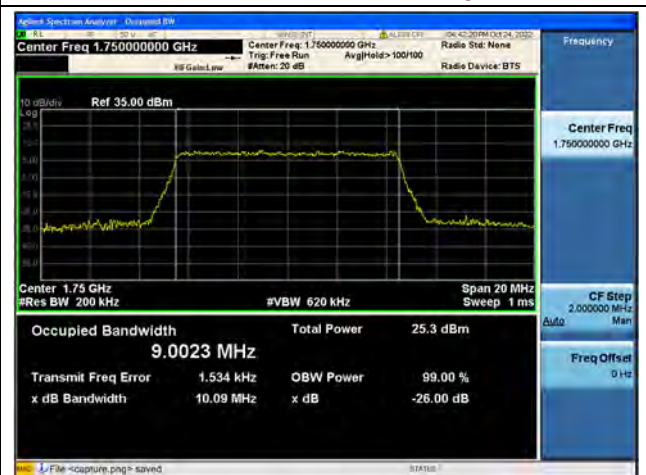
Band4 / 10MHz / 64QAM/ Mid CH



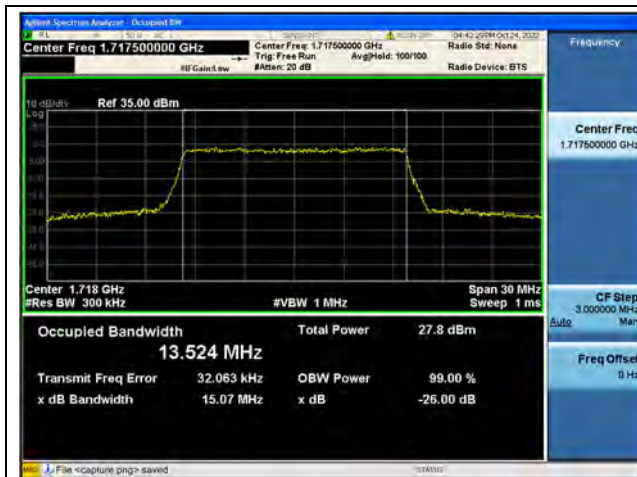
Band4 / 10MHz / QPSK/ High CH



Band4 / 10MHz / 16QAM/ High CH



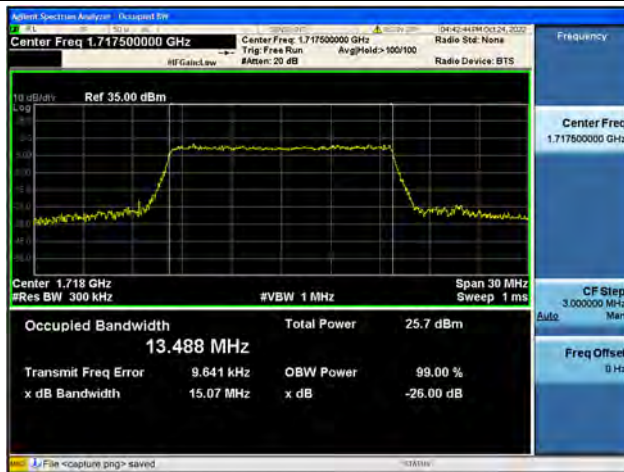
Band4 / 10MHz / 64QAM/ High CH



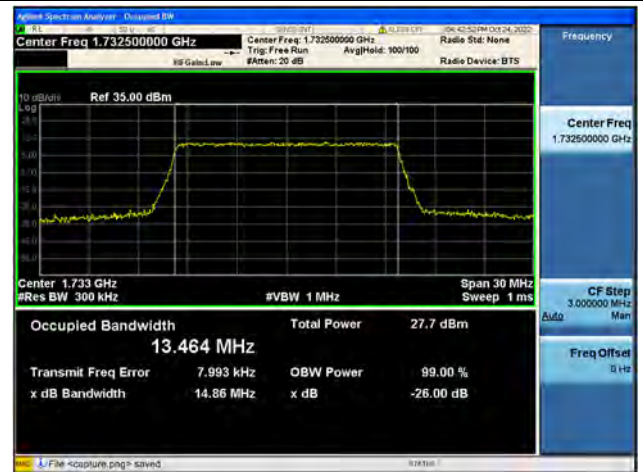
Band4 / 15MHz / QPSK/ Low CH



Band4 / 15MHz / 16QAM/ Low CH



Band4 / 15MHz / 64QAM/ Low CH



Band4 / 15MHz / QPSK/ Mid CH



Band4 / 15MHz / 16QAM/ Mid CH



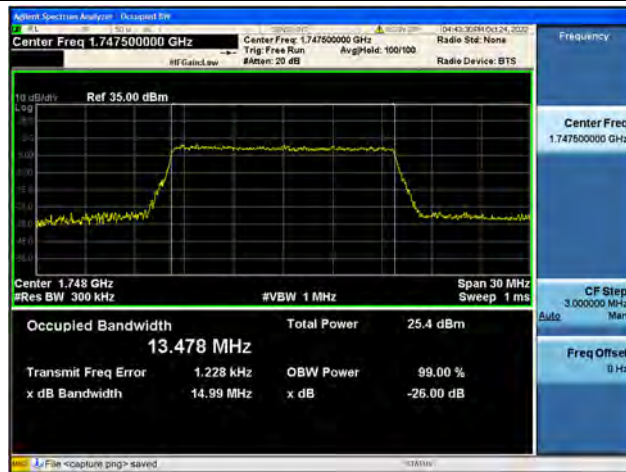
Band4 / 15MHz / 64QAM/ Mid CH



Band4 / 15MHz / QPSK/ High CH



Band4 / 15MHz / 16QAM/ High CH



Band4 / 15MHz / 64QAM/ High CH



Band4 / 20MHz / QPSK/ Low CH



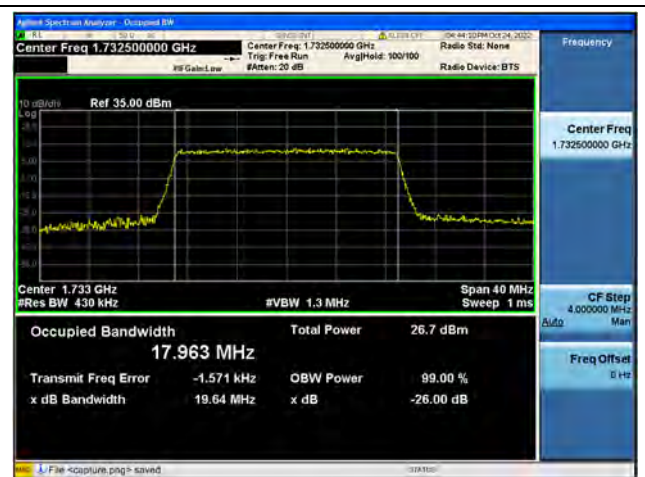
Band4 / 20MHz / 16QAM/ Low CH



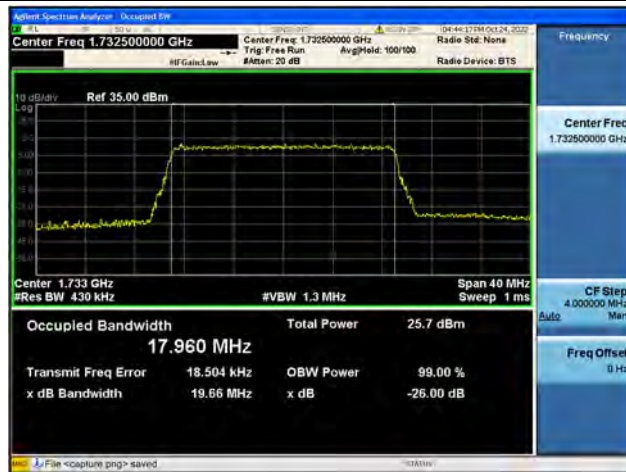
Band4 / 20MHz / 64QAM/ Low CH



Band4 / 20MHz / QPSK/ Mid CH



Band4 / 20MHz / 16QAM/ Mid CH



Band4 / 20MHz / 64QAM/ Mid CH



Band4 / 20MHz / QPSK/ High CH



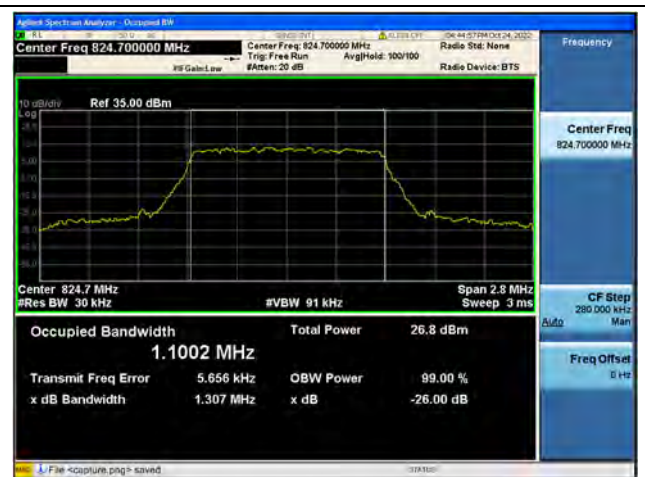
Band4 / 20MHz / 16QAM/ High CH



Band4 / 20MHz / 64QAM/ High CH



Band5 / 1.4MHz / QPSK/ Low CH



Band5 / 1.4MHz / 16QAM/ Low CH



Band5 / 1.4MHz / 64QAM/ Low CH



Band5 / 1.4MHz / QPSK/ Mid CH



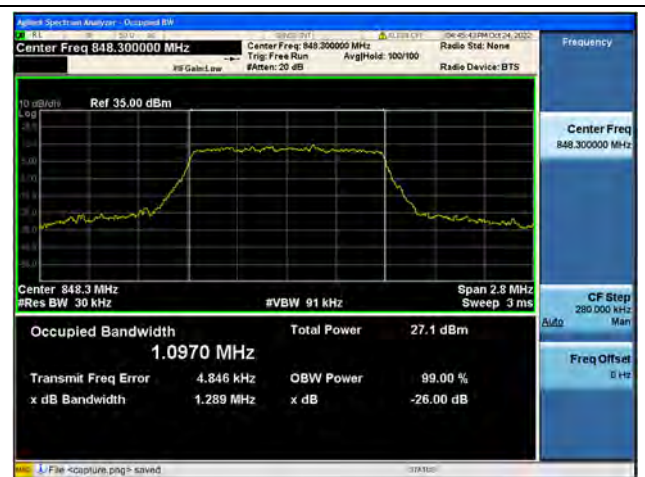
Band5 / 1.4MHz / 16QAM/ Mid CH



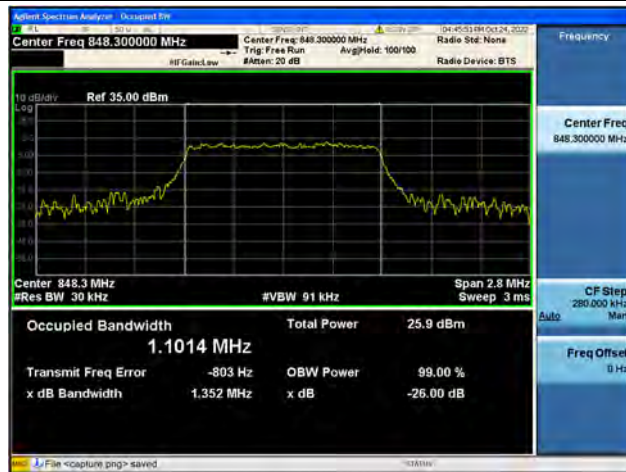
Band5 / 1.4MHz / 64QAM/ Mid CH



Band5 / 1.4MHz / QPSK/ High CH



Band5 / 1.4MHz / 16QAM/ High CH



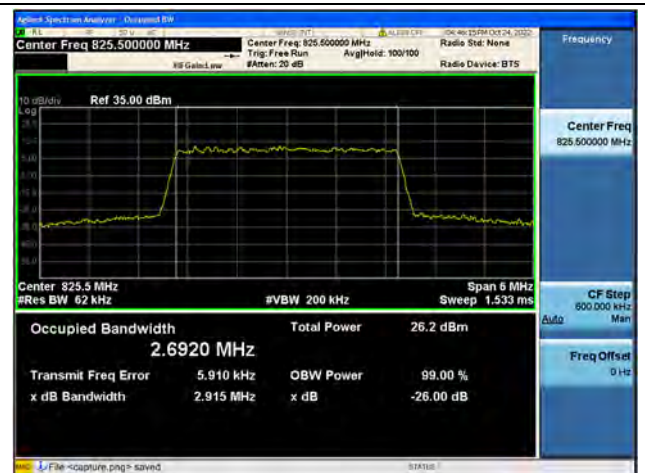
Band5 / 1.4MHz / 64QAM/ High CH



Band5 / 3MHz / QPSK/ Low CH



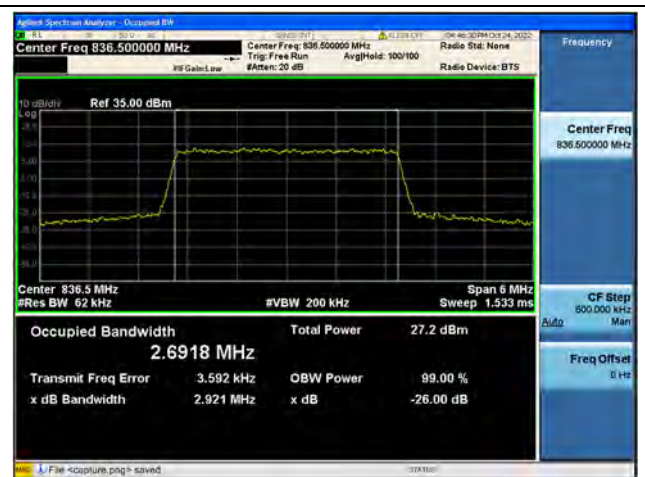
Band5 / 3MHz / 16QAM/ Low CH



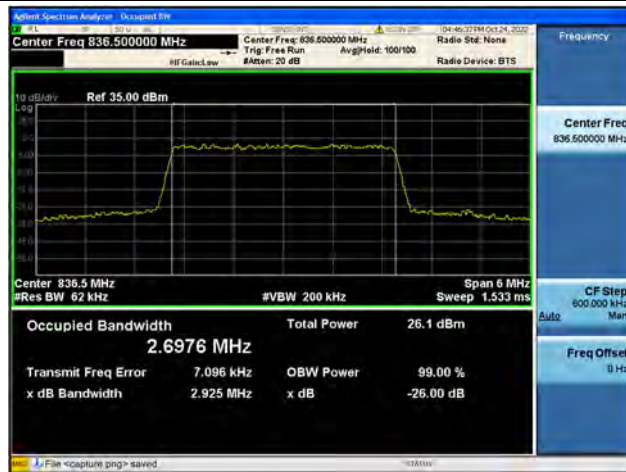
Band5 / 3MHz / 64QAM/ Low CH



Band5 / 3MHz / QPSK/ Mid CH



Band5 / 3MHz / 16QAM/ Mid CH



Band5 / 3MHz / 64QAM/ Mid CH



Band5 / 3MHz / QPSK/ High CH



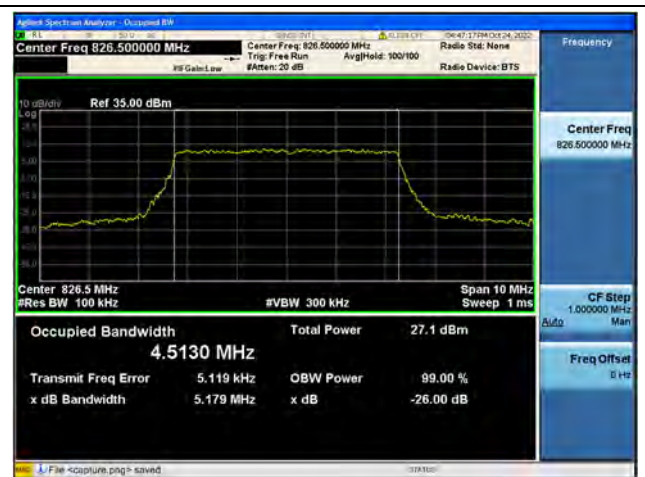
Band5 / 3MHz / 16QAM/ High CH



Band5 / 3MHz / 64QAM/ High CH



Band5 / 5MHz / QPSK/ Low CH



Band5 / 5MHz / 16QAM/ Low CH



Band5 / 5MHz / 64QAM/ Low CH



Band5 / 5MHz / QPSK/ Mid CH



Band5 / 5MHz / 16QAM/ Mid CH



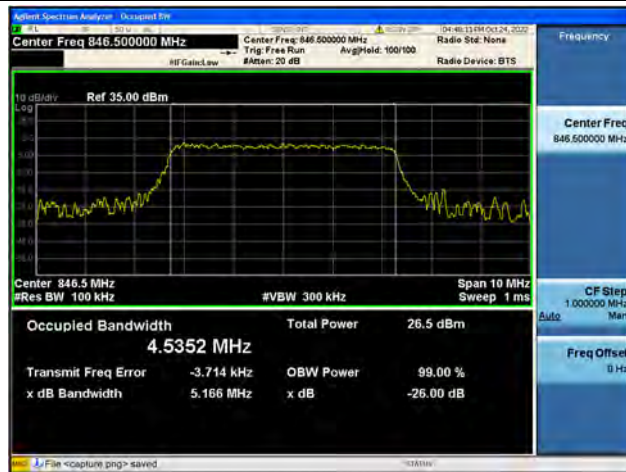
Band5 / 5MHz / 64QAM/ Mid CH



Band5 / 5MHz / QPSK/ High CH



Band5 / 5MHz / 16QAM/ High CH



Band5 / 5MHz / 64QAM/ High CH



Band5 / 10MHz / QPSK/ Low CH



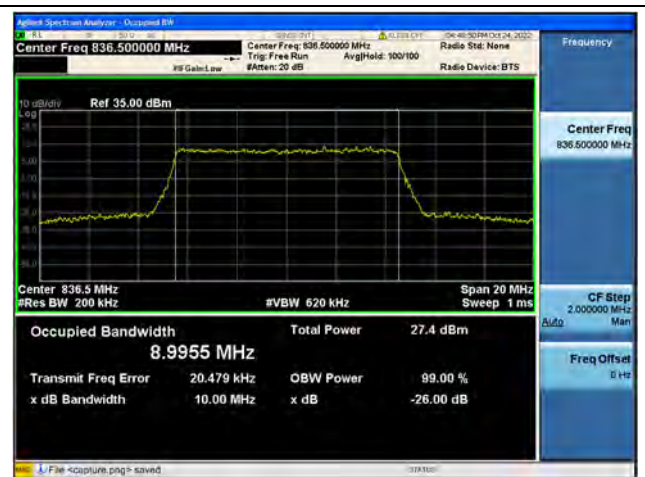
Band5 / 10MHz / 16QAM/ Low CH



Band5 / 10MHz / 64QAM/ Low CH



Band5 / 10MHz / QPSK/ Mid CH



Band5 / 10MHz / 16QAM/ Mid CH



Band5 / 10MHz / 64QAM/ Mid CH



Band5 / 10MHz / QPSK/ High CH



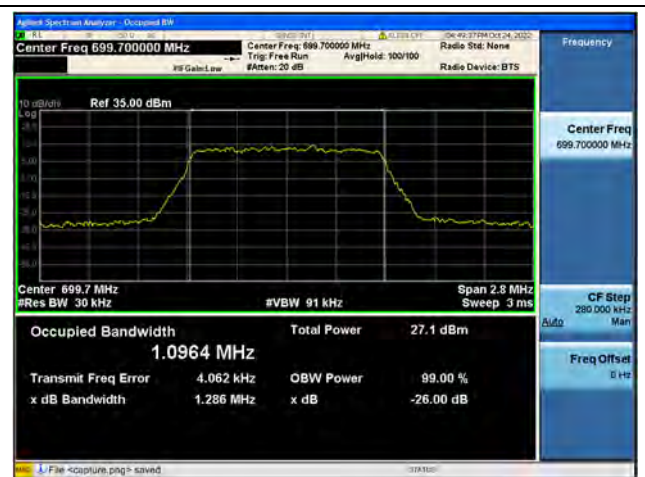
Band5 / 10MHz / 16QAM/ High CH



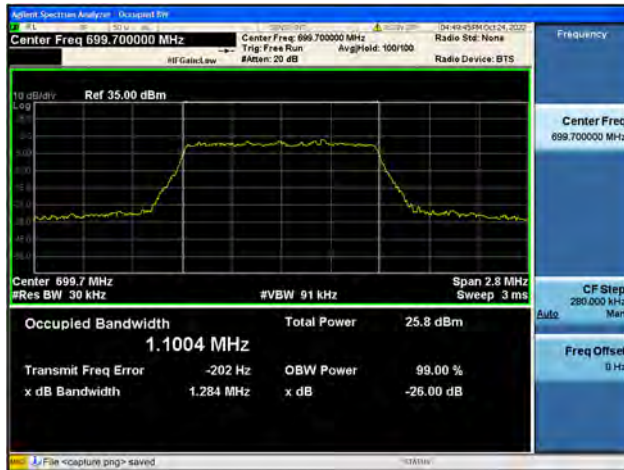
Band5 / 10MHz / 64QAM/ High CH



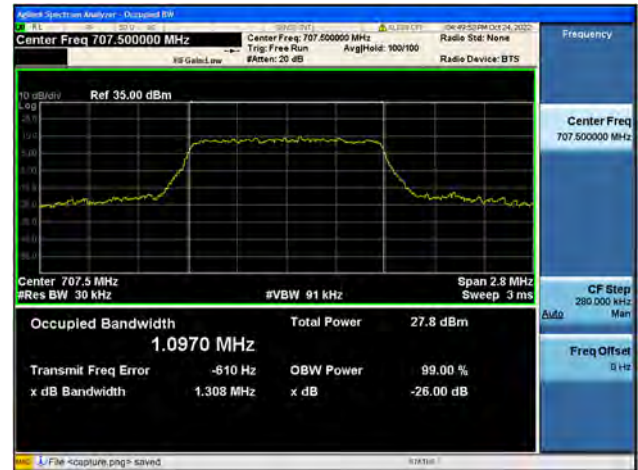
Band12 / 1.4MHz / QPSK/ Low CH



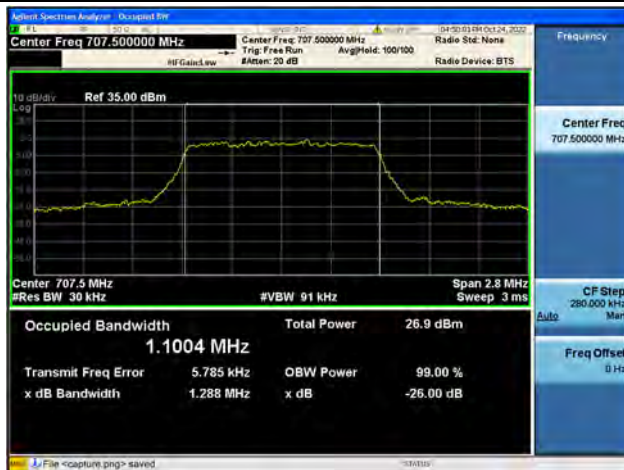
Band12 / 1.4MHz / 16QAM/ Low CH



Band12 / 1.4MHz / 64QAM/ Low CH



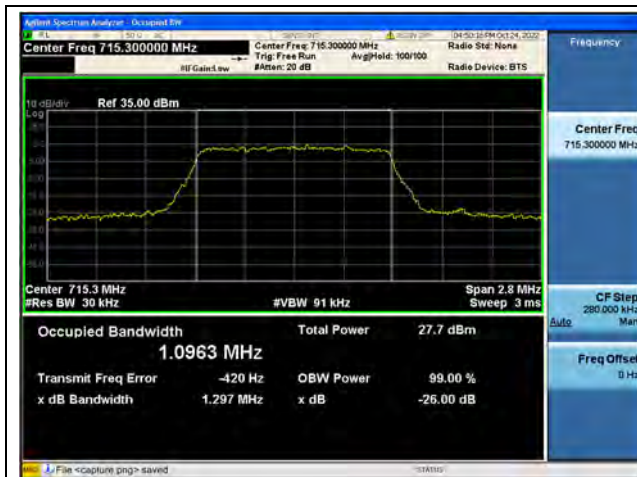
Band12 / 1.4MHz / QPSK/ Mid CH



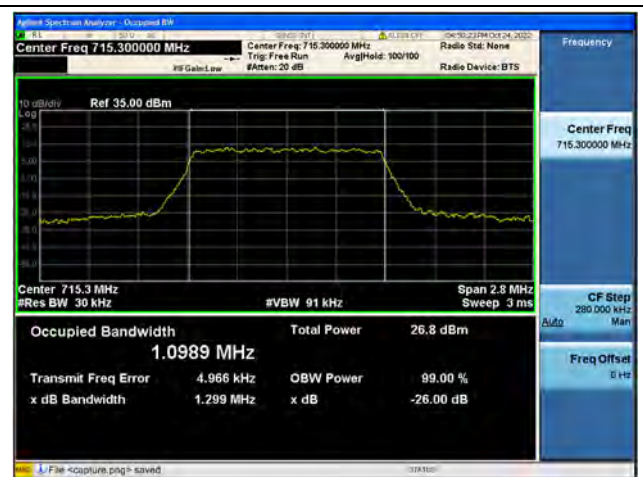
Band12 / 1.4MHz / 16QAM/ Mid CH



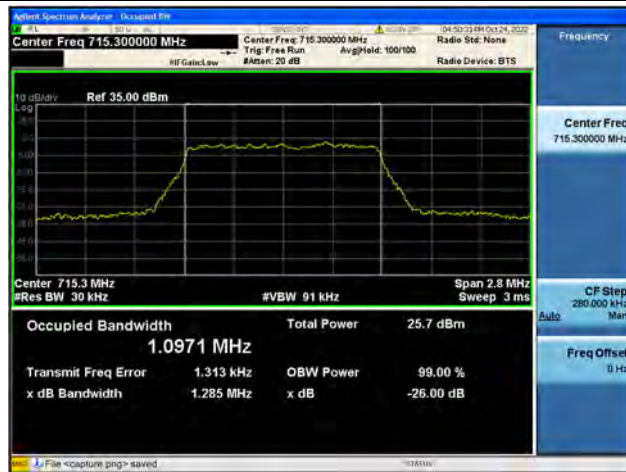
Band12 / 1.4MHz / 64QAM/ Mid CH



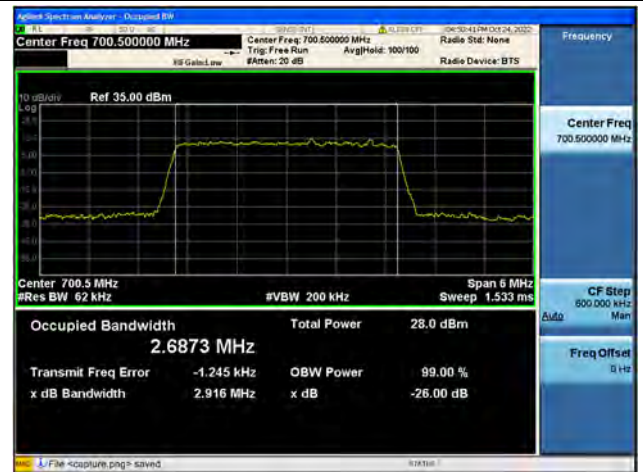
Band12 / 1.4MHz / QPSK/ High CH



Band12 / 1.4MHz / 16QAM/ High CH



Band12 / 1.4MHz / 64QAM/ High CH



Band12 / 3MHz / QPSK/ Low CH



Band12 / 3MHz / 16QAM/ Low CH



Band12 / 3MHz / 64QAM/ Low CH



Band12 / 3MHz / QPSK/ Mid CH



Band12 / 3MHz / 16QAM/ Mid CH



Band12 / 3MHz / 64QAM/ Mid CH



Band12 / 3MHz / QPSK/ High CH



Band12 / 3MHz / 16QAM/ High CH



Band12 / 3MHz / 64QAM/ High CH



Band12 / 5MHz / QPSK/ Low CH



Band12 / 5MHz / 16QAM/ Low CH



Band12 / 5MHz / 64QAM/ Low CH



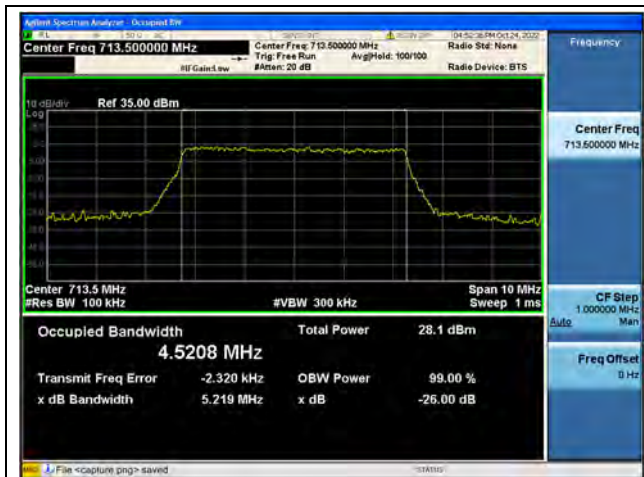
Band12 / 5MHz / QPSK/ Mid CH



Band12 / 5MHz / 16QAM/ Mid CH



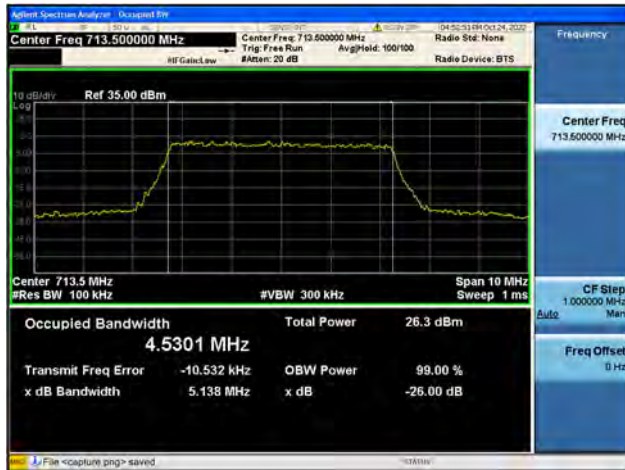
Band12 / 5MHz / 64QAM/ Mid CH



Band12 / 5MHz / QPSK/ High CH



Band12 / 5MHz / 16QAM/ High CH



Band12 / 5MHz / 64QAM/ High CH



Band12 / 10MHz / QPSK/ Low CH



Band12 / 10MHz / 16QAM/ Low CH



Band12 / 10MHz / 64QAM/ Low CH



Band12 / 10MHz / QPSK/ Mid CH



Band12 / 10MHz / 16QAM/ Mid CH



Band12 / 10MHz / 64QAM/ Mid CH



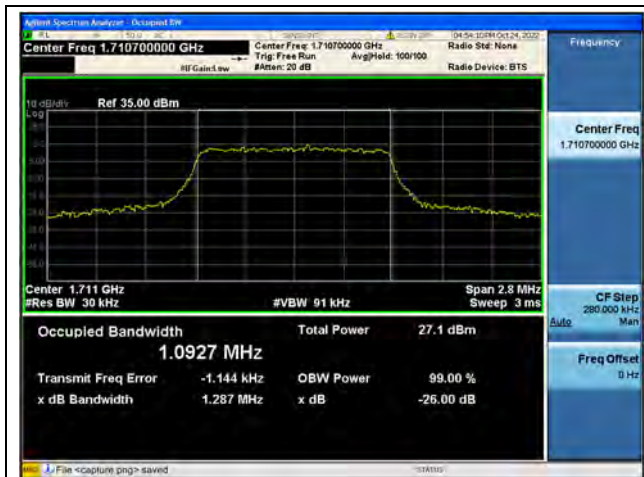
Band12 / 10MHz / QPSK/ High CH



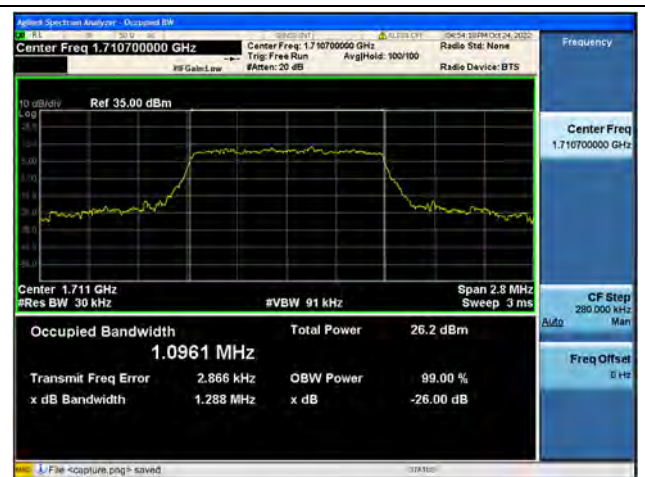
Band12 / 10MHz / 16QAM/ High CH



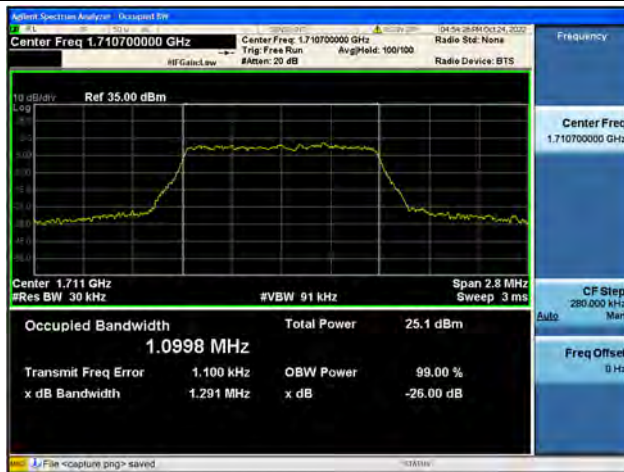
Band12 / 10MHz / 64QAM/ High CH



Band66 / 1.4MHz / QPSK/ Low CH



Band66 / 1.4MHz / 16QAM/ Low CH



Band66 / 1.4MHz / 64QAM/ Low CH



Band66 / 1.4MHz / QPSK/ Mid CH



Band66 / 1.4MHz / 16QAM/ Mid CH



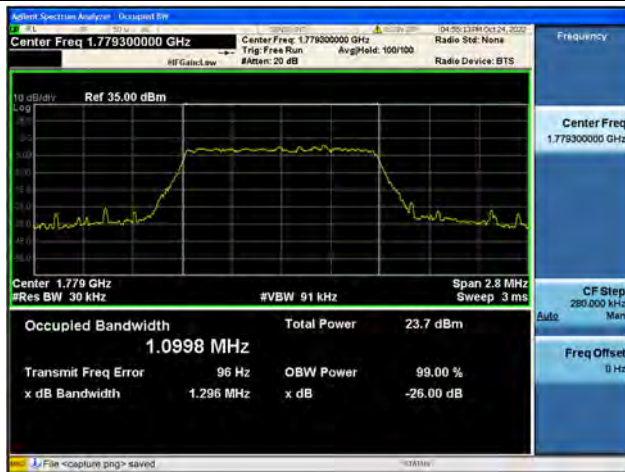
Band66 / 1.4MHz / 64QAM/ Mid CH



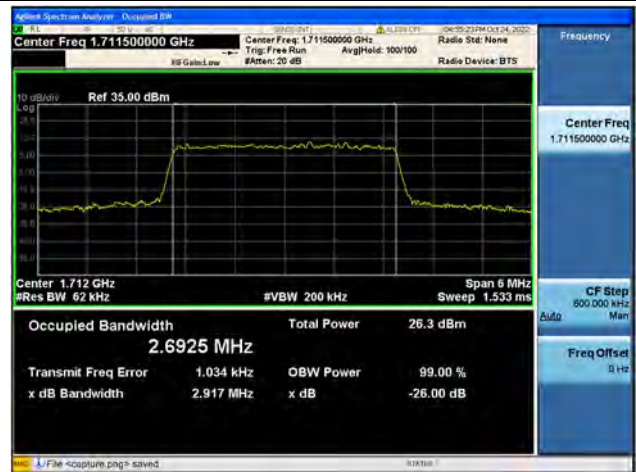
Band66 / 1.4MHz / QPSK/ High CH



Band66 / 1.4MHz / 16QAM/ High CH



Band66 / 1.4MHz / 64QAM/ High CH



Band66 / 3MHz / QPSK/ Low CH



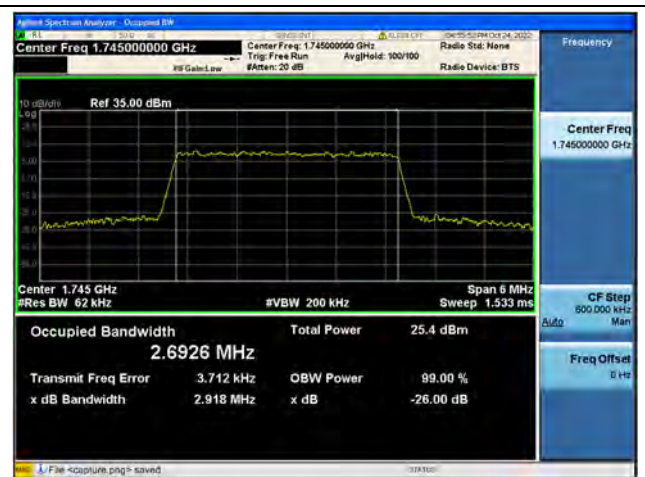
Band66 / 3MHz / 16QAM/ Low CH



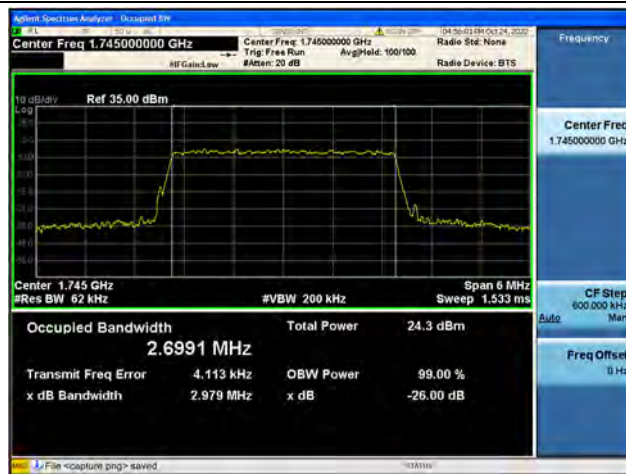
Band66 / 3MHz / 64QAM/ Low CH



Band66 / 3MHz / QPSK/ Mid CH



Band66 / 3MHz / 16QAM/ Mid CH



Band66 / 3MHz / 64QAM/ Mid CH



Band66 / 3MHz / QPSK/ High CH



Band66 / 3MHz / 16QAM/ High CH



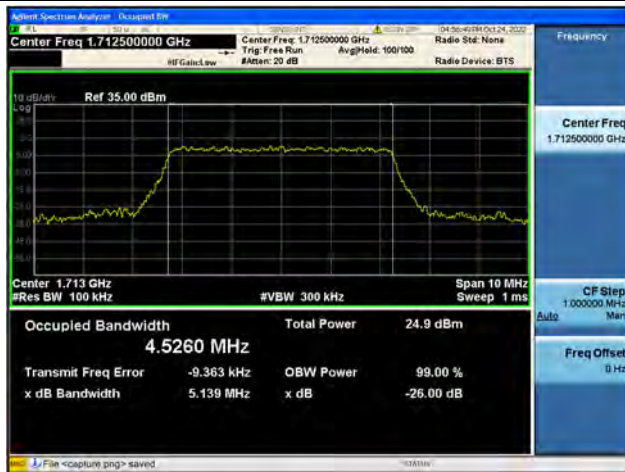
Band66 / 3MHz / 64QAM/ High CH



Band66 / 5MHz / QPSK/ Low CH



Band66 / 5MHz / 16QAM/ Low CH



Band66 / 5MHz / 64QAM/ Low CH



Band66 / 5MHz / QPSK/ Mid CH



Band66 / 5MHz / 16QAM/ Mid CH



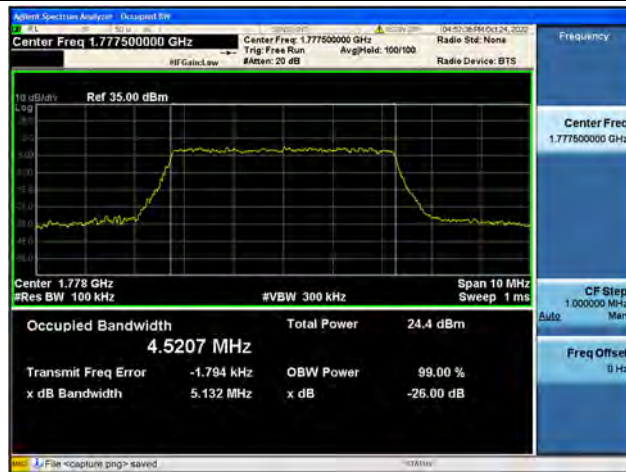
Band66 / 5MHz / 64QAM/ Mid CH



Band66 / 5MHz / QPSK/ High CH



Band66 / 5MHz / 16QAM/ High CH



Band66 / 5MHz / 64QAM/ High CH



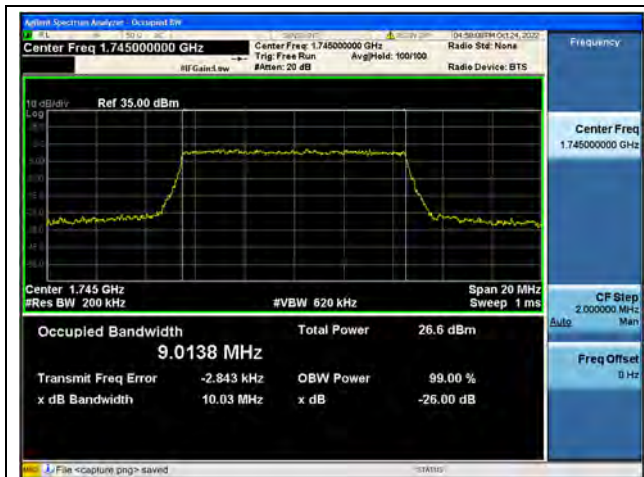
Band66 / 10MHz / QPSK/ Low CH



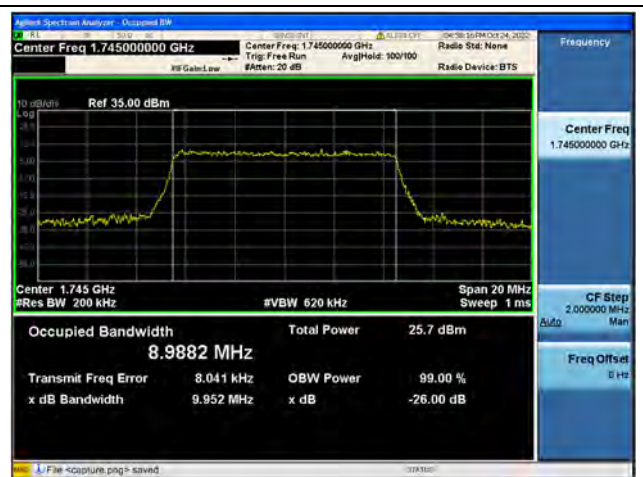
Band66 / 10MHz / 16QAM/ Low CH



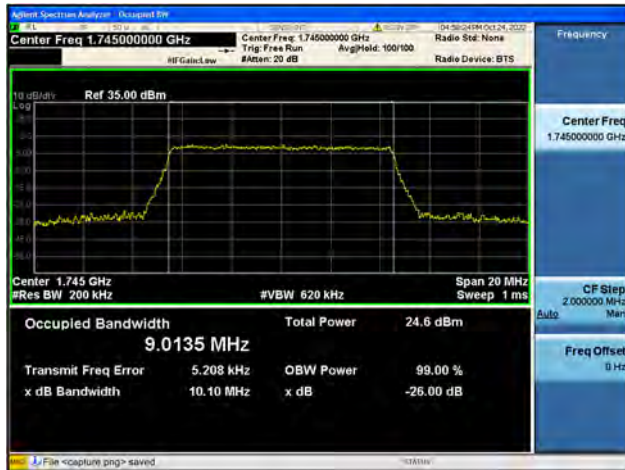
Band66 / 10MHz / 64QAM/ Low CH



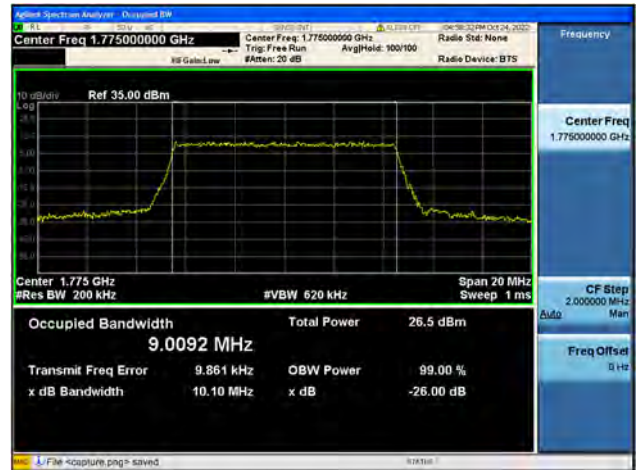
Band66 / 10MHz / QPSK/ Mid CH



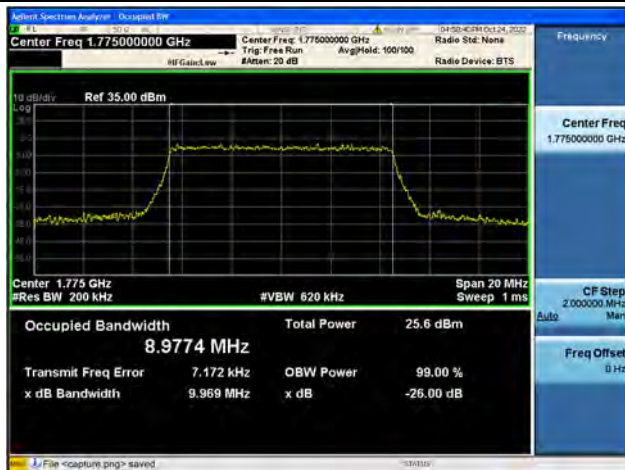
Band66 / 10MHz / 16QAM/ Mid CH



Band66 / 10MHz / 64QAM/ Mid CH



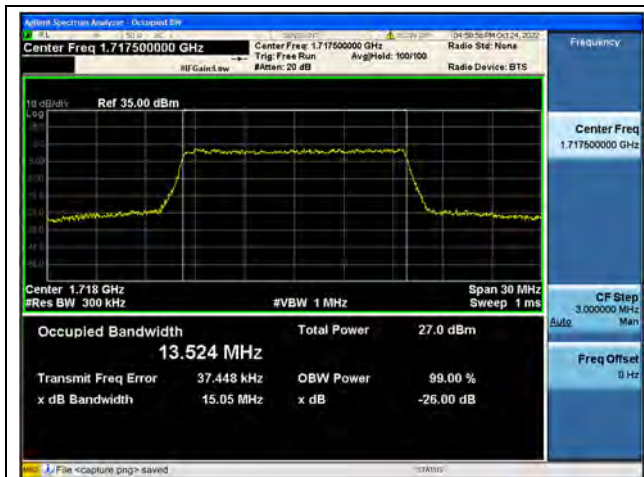
Band66 / 10MHz / QPSK/ High CH



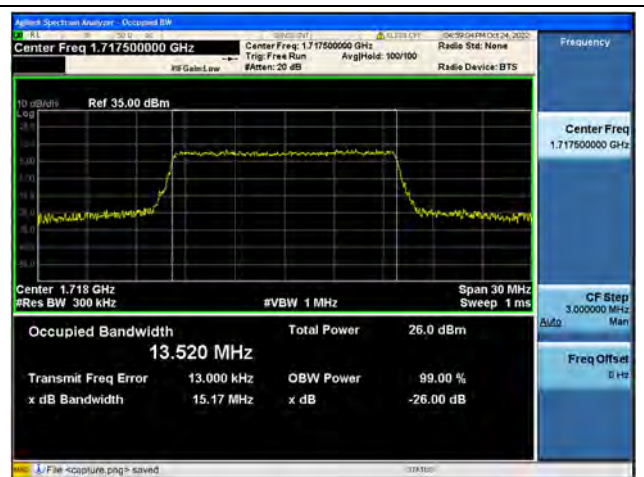
Band66 / 10MHz / 16QAM/ High CH



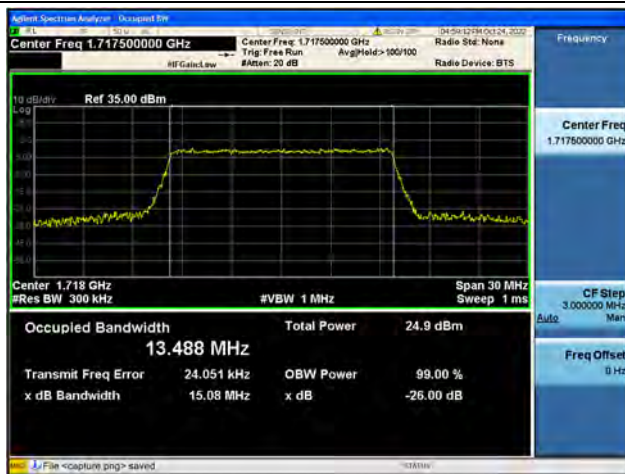
Band66 / 10MHz / 64QAM/ High CH



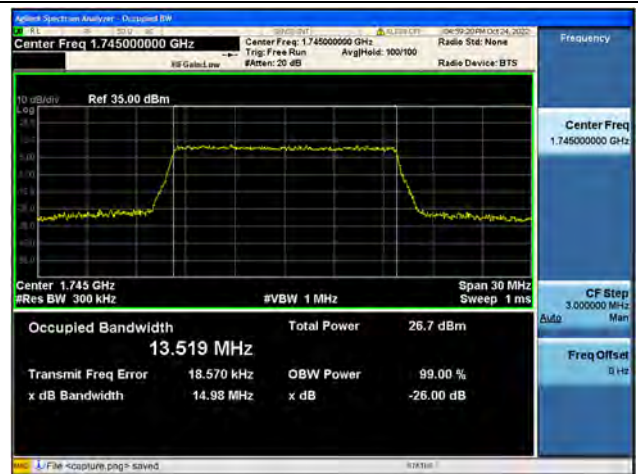
Band66 / 15MHz / QPSK/ Low CH



Band66 / 15MHz / 16QAM/ Low CH



Band66 / 15MHz / 64QAM/ Low CH



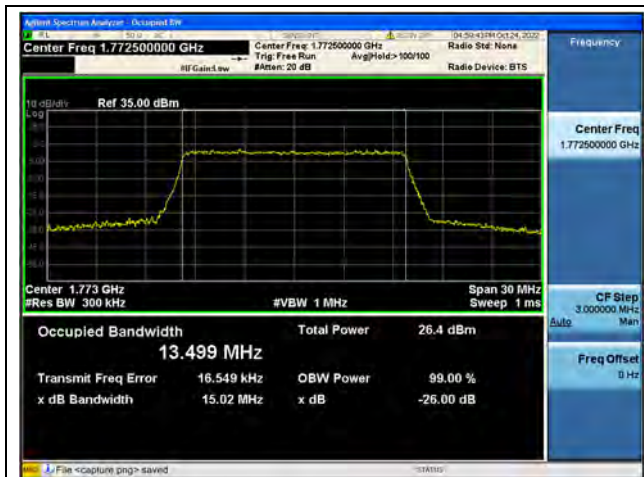
Band66 / 15MHz / QPSK/ Mid CH



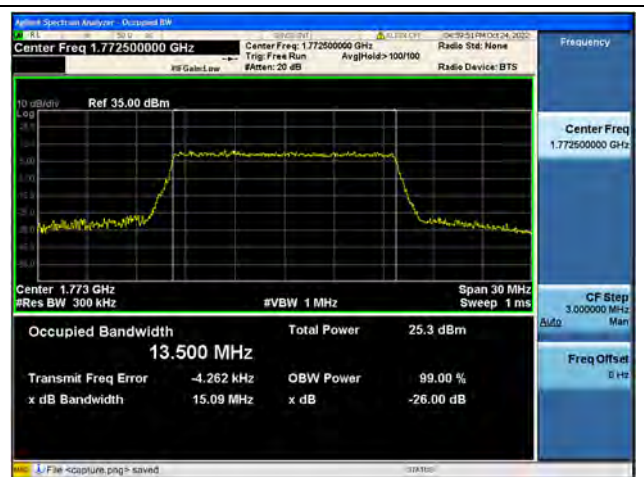
Band66 / 15MHz / 16QAM/ Mid CH



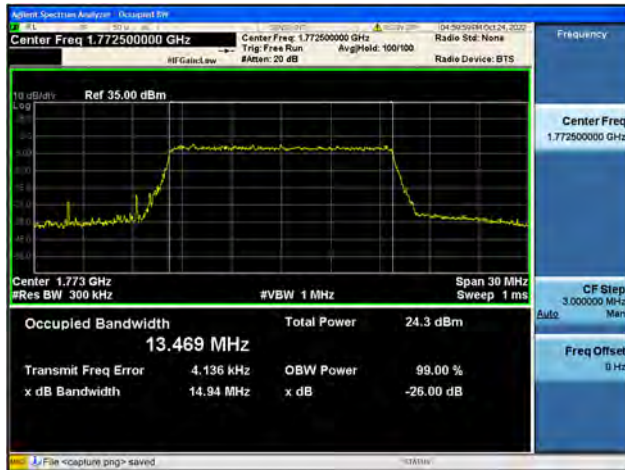
Band66 / 15MHz / 64QAM/ Mid CH



Band66 / 15MHz / QPSK/ High CH



Band66 / 15MHz / 16QAM/ High CH



Band66 / 15MHz / 64QAM/ High CH



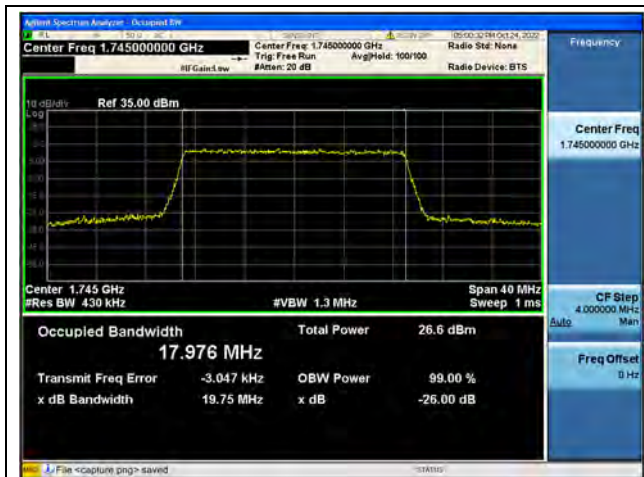
Band66 / 20MHz / QPSK/ Low CH



Band66 / 20MHz / 16QAM/ Low CH



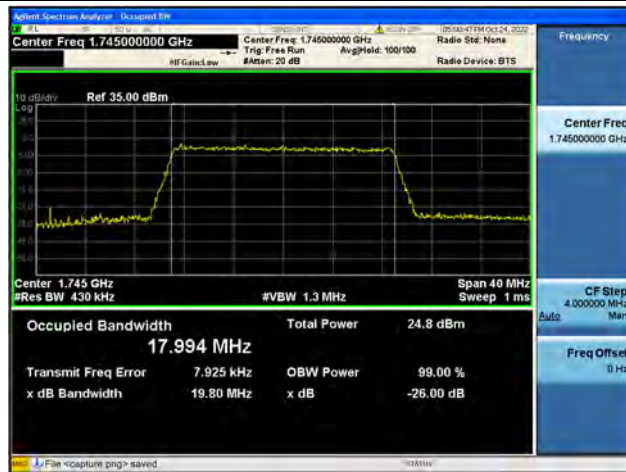
Band66 / 20MHz / 64QAM/ Low CH



Band66 / 20MHz / QPSK/ Mid CH



Band66 / 20MHz / 16QAM/ Mid CH



Band66 / 20MHz / 64QAM/ Mid CH



Band66 / 20MHz / QPSK/ High CH



Band66 / 20MHz / 16QAM/ High CH



Band66 / 20MHz / 64QAM/ High CH

2.3. Frequency Stability

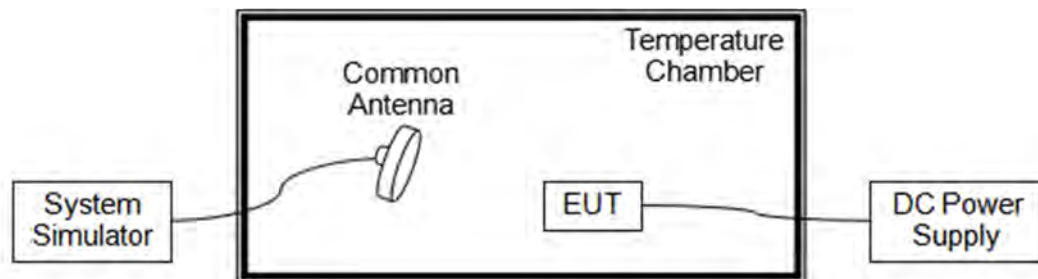
2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -10°C to 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 3.60V, 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)	36	0.019	PASS
Normal		0	44	0.023	
Normal		+10	-59	-0.031	
Normal		+20	14	0.007	
Normal		+30	-51	-0.027	
Normal		+40	-33	-0.018	
Normal		+50	50	0.027	
Normal		+55	30	0.016	
High	4.35	+20	-58	-0.031	
BATT.ENDPOINT	3.60	+20	-27	-0.014	

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)	19	0.011	PASS
Normal		0	35	0.020	
Normal		+10	-59	-0.034	
Normal		+20	19	0.011	
Normal		+30	-24	-0.014	
Normal		+40	-25	-0.014	
Normal		+50	-35	-0.020	
Normal		+55	-37	-0.021	
High	4.35	+20	13	0.008	
BATT.ENDPOINT	3.60	+20	35	0.020	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	41	0.049	PASS
Normal		0	15	0.018	
Normal		+10	26	0.031	
Normal		+20	42	0.050	
Normal		+30	13	0.016	
Normal		+40	-47	-0.056	
Normal		+50	53	0.063	
Normal		+55	-24	-0.029	
High	4.35	+20	30	0.036	
BATT.ENDPOINT	3.60	+20	-24	-0.029	

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)	52	0.073	PASS
Normal		0	28	0.040	
Normal		+10	28	0.040	
Normal		+20	52	0.073	
Normal		+30	-31	-0.044	
Normal		+40	30	0.042	
Normal		+50	48	0.068	
Normal		+55	24	0.034	
High	4.35	+20	-32	-0.045	
BATT.ENDPOINT	3.60	+20	-52	-0.073	



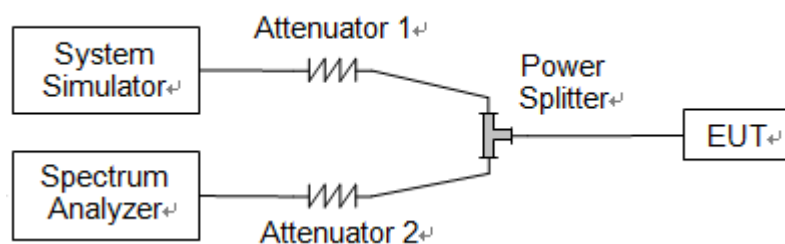
LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	-13	-0.007	PASS
Normal		0	46	0.026	
Normal		+10	-57	-0.033	
Normal		+20	13	0.007	
Normal		+30	37	0.021	
Normal		+40	36	0.021	
Normal		+50	-34	-0.019	
Normal		+55	-14	-0.008	
High	4.35	+20	21	0.012	
BATT.ENDPOINT	3.60	+20	31	0.018	

2.4. Peak to Average Ratio

2.4.1. Requirement

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

2.4.2. Test Description



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

2.4.3. Test Procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

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



LTE Band 2					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.27	<=13	PASS
	Low	16QAM	6.25	<=13	PASS
	Low	64QAM	6.21	<=13	PASS
	Mid	QPSK	5.61	<=13	PASS
	Mid	16QAM	6.35	<=13	PASS
	Mid	64QAM	6.26	<=13	PASS
	High	QPSK	5.52	<=13	PASS
	High	16QAM	6.26	<=13	PASS
	High	64QAM	6.32	<=13	PASS
3	Low	QPSK	5.56	<=13	PASS
	Low	16QAM	6.33	<=13	PASS
	Low	64QAM	6.26	<=13	PASS
	Mid	QPSK	5.62	<=13	PASS
	Mid	16QAM	6.35	<=13	PASS
	Mid	64QAM	6.25	<=13	PASS
	High	QPSK	5.55	<=13	PASS
	High	16QAM	6.35	<=13	PASS
	High	64QAM	6.31	<=13	PASS
5	Low	QPSK	5.66	<=13	PASS
	Low	16QAM	6.26	<=13	PASS
	Low	64QAM	6.36	<=13	PASS
	Mid	QPSK	5.70	<=13	PASS
	Mid	16QAM	6.30	<=13	PASS
	Mid	64QAM	6.49	<=13	PASS
	High	QPSK	5.63	<=13	PASS
	High	16QAM	6.26	<=13	PASS
	High	64QAM	6.46	<=13	PASS
10	Low	QPSK	5.69	<=13	PASS
	Low	16QAM	6.35	<=13	PASS
	Low	64QAM	6.40	<=13	PASS
	Mid	QPSK	5.74	<=13	PASS
	Mid	16QAM	6.34	<=13	PASS
	Mid	64QAM	6.47	<=13	PASS
	High	QPSK	5.72	<=13	PASS
	High	16QAM	6.27	<=13	PASS
	High	64QAM	6.44	<=13	PASS



15	Low	QPSK	5.66	≤ 13	PASS
	Low	16QAM	6.27	≤ 13	PASS
	Low	64QAM	6.44	≤ 13	PASS
	Mid	QPSK	5.72	≤ 13	PASS
	Mid	16QAM	6.29	≤ 13	PASS
	Mid	64QAM	6.56	≤ 13	PASS
	High	QPSK	5.74	≤ 13	PASS
	High	16QAM	6.34	≤ 13	PASS
	High	64QAM	6.55	≤ 13	PASS
20	Low	QPSK	5.59	≤ 13	PASS
	Low	16QAM	6.36	≤ 13	PASS
	Low	64QAM	6.50	≤ 13	PASS
	Mid	QPSK	5.67	≤ 13	PASS
	Mid	16QAM	6.39	≤ 13	PASS
	Mid	64QAM	6.55	≤ 13	PASS
	High	QPSK	5.74	≤ 13	PASS
	High	16QAM	6.44	≤ 13	PASS
	High	64QAM	6.46	≤ 13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.94	<=13	PASS
	Low	16QAM	5.72	<=13	PASS
	Low	64QAM	6.18	<=13	PASS
	Mid	QPSK	5.47	<=13	PASS
	Mid	16QAM	6.25	<=13	PASS
	Mid	64QAM	6.35	<=13	PASS
	High	QPSK	5.45	<=13	PASS
	High	16QAM	6.17	<=13	PASS
	High	64QAM	6.36	<=13	PASS
3	Low	QPSK	5.06	<=13	PASS
	Low	16QAM	5.92	<=13	PASS
	Low	64QAM	6.24	<=13	PASS
	Mid	QPSK	5.52	<=13	PASS
	Mid	16QAM	6.29	<=13	PASS
	Mid	64QAM	6.34	<=13	PASS
	High	QPSK	5.49	<=13	PASS
	High	16QAM	6.23	<=13	PASS
	High	64QAM	6.44	<=13	PASS
5	Low	QPSK	5.31	<=13	PASS
	Low	16QAM	5.99	<=13	PASS
	Low	64QAM	6.36	<=13	PASS
	Mid	QPSK	5.61	<=13	PASS
	Mid	16QAM	6.26	<=13	PASS
	Mid	64QAM	6.42	<=13	PASS
	High	QPSK	5.61	<=13	PASS
	High	16QAM	6.21	<=13	PASS
	High	64QAM	6.46	<=13	PASS
10	Low	QPSK	5.41	<=13	PASS
	Low	16QAM	6.10	<=13	PASS
	Low	64QAM	6.39	<=13	PASS
	Mid	QPSK	5.65	<=13	PASS
	Mid	16QAM	6.26	<=13	PASS
	Mid	64QAM	6.41	<=13	PASS
	High	QPSK	5.60	<=13	PASS
	High	16QAM	6.24	<=13	PASS
	High	64QAM	6.46	<=13	PASS



15	Low	QPSK	5.33	≤ 13	PASS
	Low	16QAM	6.06	≤ 13	PASS
	Low	64QAM	6.42	≤ 13	PASS
	Mid	QPSK	5.49	≤ 13	PASS
	Mid	16QAM	6.19	≤ 13	PASS
	Mid	64QAM	6.51	≤ 13	PASS
	High	QPSK	5.55	≤ 13	PASS
	High	16QAM	6.22	≤ 13	PASS
	High	64QAM	6.50	≤ 13	PASS
20	Low	QPSK	5.48	≤ 13	PASS
	Low	16QAM	6.21	≤ 13	PASS
	Low	64QAM	6.48	≤ 13	PASS
	Mid	QPSK	5.51	≤ 13	PASS
	Mid	16QAM	6.27	≤ 13	PASS
	Mid	64QAM	6.48	≤ 13	PASS
	High	QPSK	5.54	≤ 13	PASS
	High	16QAM	6.26	≤ 13	PASS
	High	64QAM	6.51	≤ 13	PASS



LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.94	<=13	PASS
	Low	16QAM	5.72	<=13	PASS
	Low	64QAM	6.21	<=13	PASS
	Mid	QPSK	5.28	<=13	PASS
	Mid	16QAM	6.06	<=13	PASS
	Mid	64QAM	6.27	<=13	PASS
	High	QPSK	5.28	<=13	PASS
	High	16QAM	6.06	<=13	PASS
	High	64QAM	6.27	<=13	PASS
3	Low	QPSK	5.01	<=13	PASS
	Low	16QAM	5.91	<=13	PASS
	Low	64QAM	6.23	<=13	PASS
	Mid	QPSK	5.35	<=13	PASS
	Mid	16QAM	6.18	<=13	PASS
	Mid	64QAM	6.33	<=13	PASS
	High	QPSK	5.38	<=13	PASS
	High	16QAM	6.21	<=13	PASS
	High	64QAM	6.29	<=13	PASS
5	Low	QPSK	5.29	<=13	PASS
	Low	16QAM	5.99	<=13	PASS
	Low	64QAM	6.35	<=13	PASS
	Mid	QPSK	5.59	<=13	PASS
	Mid	16QAM	6.22	<=13	PASS
	Mid	64QAM	6.50	<=13	PASS
	High	QPSK	5.58	<=13	PASS
	High	16QAM	6.20	<=13	PASS
	High	64QAM	6.46	<=13	PASS
10	Low	QPSK	5.42	<=13	PASS
	Low	16QAM	6.05	<=13	PASS
	Low	64QAM	6.38	<=13	PASS
	Mid	QPSK	5.61	<=13	PASS
	Mid	16QAM	6.29	<=13	PASS
	Mid	64QAM	6.45	<=13	PASS
	High	QPSK	5.59	<=13	PASS
	High	16QAM	6.25	<=13	PASS
	High	64QAM	6.46	<=13	PASS



15	Low	QPSK	5.36	≤ 13	PASS
	Low	16QAM	6.07	≤ 13	PASS
	Low	64QAM	6.43	≤ 13	PASS
	Mid	QPSK	5.50	≤ 13	PASS
	Mid	16QAM	6.20	≤ 13	PASS
	Mid	64QAM	6.51	≤ 13	PASS
	High	QPSK	5.55	≤ 13	PASS
	High	16QAM	6.22	≤ 13	PASS
	High	64QAM	6.48	≤ 13	PASS
20	Low	QPSK	5.46	≤ 13	PASS
	Low	16QAM	6.19	≤ 13	PASS
	Low	64QAM	6.46	≤ 13	PASS
	Mid	QPSK	5.50	≤ 13	PASS
	Mid	16QAM	6.25	≤ 13	PASS
	Mid	64QAM	6.50	≤ 13	PASS
	High	QPSK	5.52	≤ 13	PASS
	High	16QAM	6.26	≤ 13	PASS
	High	64QAM	6.45	≤ 13	PASS



Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



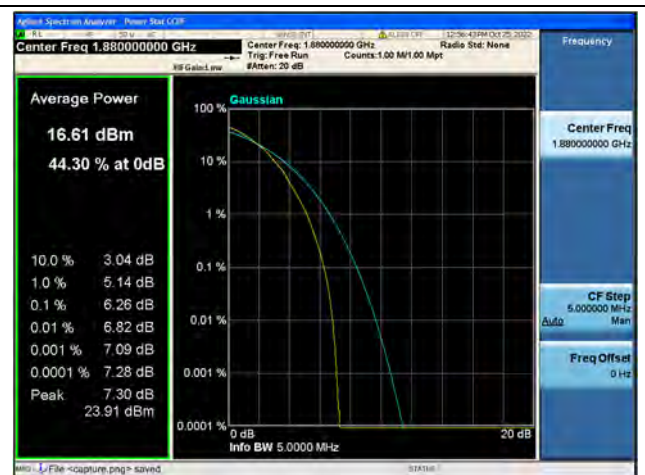
Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



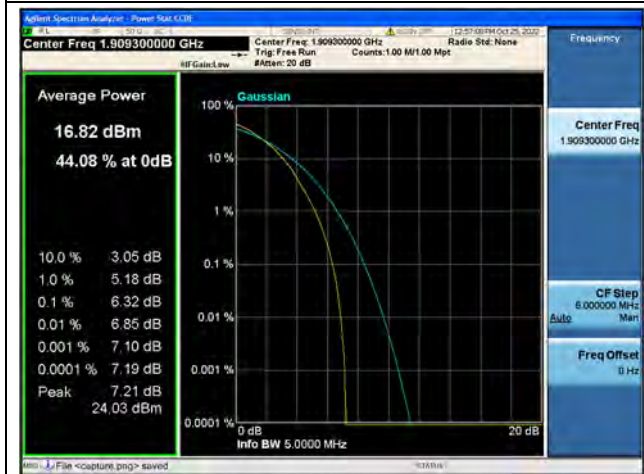
Band2 / 1.4MHz / Mid CH / 64QAM



Band2 / 1.4MHz / High CH / QPSK



Band2 / 1.4MHz / High CH / 16QAM



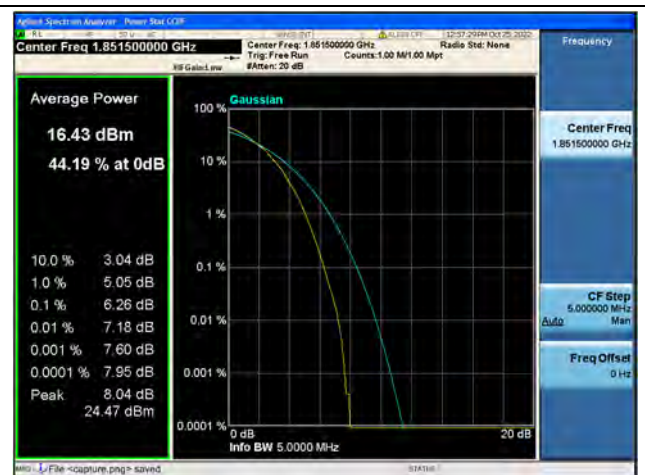
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Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



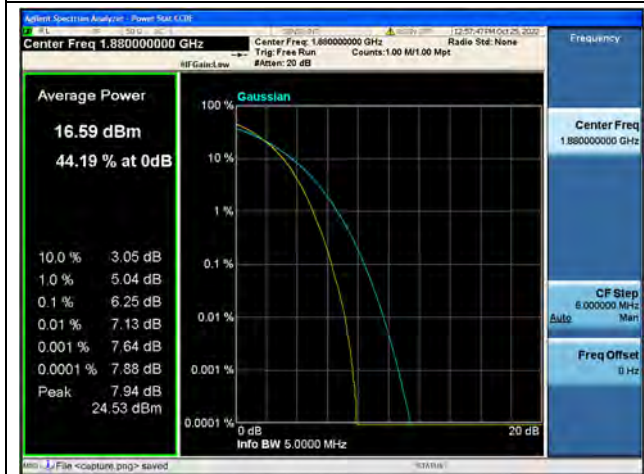
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Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



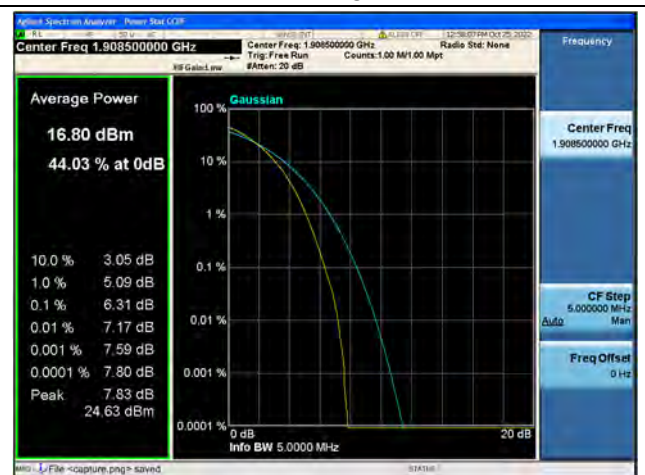
Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM



Band2 / 3MHz / High CH / 64QAM



Band2 / 5MHz / Low CH / QPSK



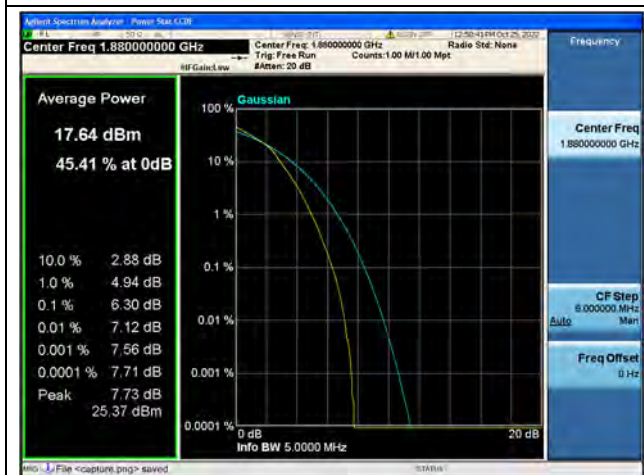
Band2 / 5MHz / Low CH / 16QAM



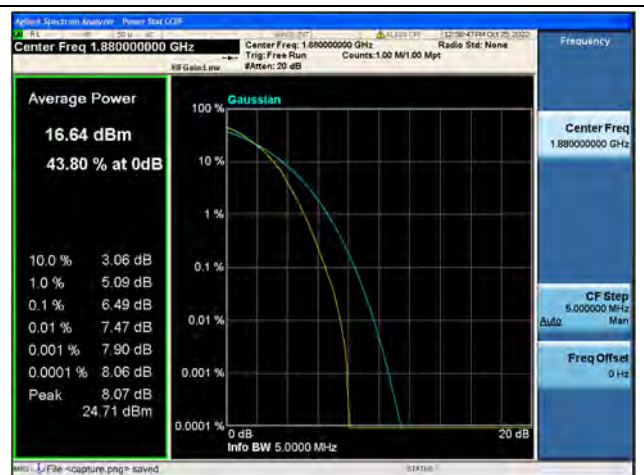
Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / Mid CH / 64QAM

