



REPORT No. : SZ21010316W05

TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : G91 PRO

BRAND NAME : BLU

FCC ID : YHLBLUG91P

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

RECEIPT DATE : 2021-03-31

TEST DATE : 2021-04-15 to 2021-04-24

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Edited by:

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Approved by:

Peng Huarui (Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2021-05-25	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	BLU Products, Inc.
Applicant Address:	10814 NW 33rd St # 100 Doral, FL 33172, USA
Manufacturer:	BLU Products, Inc.
Manufacturer Address:	10814 NW 33rd St # 100 Doral, FL 33172, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Serial No.:	(N/A, marked #1 by test site)	
Hardware Version:	KF3F_01	
Software Version:	BLU_G0530WW_V11.0.02.00_GENERIC 29-03-2021 19:30	
Modulation Type:	QPSK, 16QAM, 64QAM	
Carrier Aggregation:	Not support	
Operation Band:	Band 2 / 4 / 5 / 7 / 12 / 13 / 17	
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 7	Tx: 2500MHz–2570MHz
		Rx: 2620MHz–2690MHz
	LTE Band 12	Tx: 699MHz–716MHz
		Rx: 729MHz–746MHz
	LTE Band 13	Tx: 777MHz–787MHz
		Rx: 746MHz–756MHz
	LTE Band 17	Tx: 704MHz–716MHz
		Rx: 734MHz–746MHz



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 7	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 13	5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	0.70dBi
	LTE Band 4	0.80dBi
	LTE Band 5	-0.70dBi
	LTE Band 7	0.70dBi
	LTE Band 12	-2.70dBi
	LTE Band 13	-2.60dBi
	LTE Band 17	-2.70dBi
Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C496588490P
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	Typical: 5000 mAh, Rated: 4900 mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.40V
	Manufacturer:	Shenzhen jiuliyuan electronic technology Co.,Ltd
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-BM-3000
	Serial No.:	(N/A, marked #1 by test site)
	Rated Output:	5.0V=3.0A; 9.0V=3.0A; 10.0V=3.0A
	Rated Input:	100-240V~50/60Hz, 0.8A
	Manufacturer:	Guangdong Beicom Electronics Co.,Ltd.

Note 1: SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



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

LTE Band 2		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.246	0.210	0.172	18M0G7D	18M0W7D	18M0W7D
15		0.234	0.210	0.171	13M5G7D	13M5W7D	13M5W7D
10		0.235	0.220	0.163	9M01G7D	8M97W7D	8M99W7D
5		0.237	0.219	0.173	4M50G7D	4M51W7D	4M50W7D
3		0.235	0.202	0.173	2M69G7D	2M69W7D	2M70W7D
1.4		0.240	0.201	0.160	1M10G7D	1M10W7D	1M10W7D
LTE Band 4		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.264	0.207	0.177	18M1G7D	18M1W7D	18M1W7D
15		0.258	0.203	0.176	13M5G7D	13M5W7D	13M5W7D
10		0.255	0.205	0.178	9M03G7D	9M00W7D	9M01W7D
5		0.254	0.205	0.176	4M52G7D	4M51W7D	4M51W7D
3		0.259	0.209	0.167	2M70G7D	2M70W7D	2M71W7D
1.4		0.254	0.209	0.168	1M10G7D	1M11W7D	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		0.117	0.097	0.077	9M01G7D	8M98W7D	9M00W7D
5		0.116	0.100	0.076	4M50G7D	4M51W7D	4M50W7D
3		0.116	0.097	0.076	2M69G7D	2M69W7D	2M70W7D
1.4		0.116	0.100	0.073	1M10G7D	1M10W7D	1M10W7D
LTE Band 7		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20		0.254	0.205	0.173	18M0G7D	18M0W7D	18M0W7D
15		0.248	0.224	0.174	13M5G7D	13M5W7D	13M5W7D
10		0.243	0.219	0.170	9M01G7D	8M97W7D	9M00W7D
5		0.244	0.204	0.167	4M50G7D	4M51W7D	4M51W7D
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		0.075	0.060	0.052	9M02G7D	8M97W7D	8M98W7D
5		0.073	0.060	0.051	4M50G7D	4M51W7D	4M50W7D
3		0.074	0.063	0.050	2M69G7D	2M69W7D	2M70W7D
1.4		0.072	0.061	0.049	1M10G7D	1M10W7D	1M10W7D



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LTE Band 13	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.071	0.056	0.046	9M02G7D	8M98W7D	9M00W7D
5	0.069	0.060	0.046	4M51G7D	4M51W7D	4M51W7D
LTE Band 17	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	0.048	9M01G7D	8M97W7D	8M99W7D
5	0.066	0.053	0.043	4M50G7D	4M51W7D	4M51W7D



1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	May 21, 2021	Chen Hao Huang Zhiye	PASS	No deviation
2.1049	Occupied Bandwidth	Apr 15, 2021	Ling Keye	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	May 06, 2021	Ling Keye	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Apr 15, 2021	Ling Keye	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Apr 15&20, 2021	Ling Keye	PASS	No deviation
2.1051 22.917(a)	Band Edge	Apr 16&20, 2021	Ling Keye	PASS	No deviation



24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)					
2.1051 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Apr 17, 2021	Huang Zhiye	PASS	No deviation
Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016. Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB. Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table. Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% risk level.					

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106



2. 47 CFR Part 2, Part 22H, Part 24E, Part 27 F&H&L&M Requirements

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

2.1.1. Requirement

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

According to FCC section 24.232 (c) for LTE Band 2, 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, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

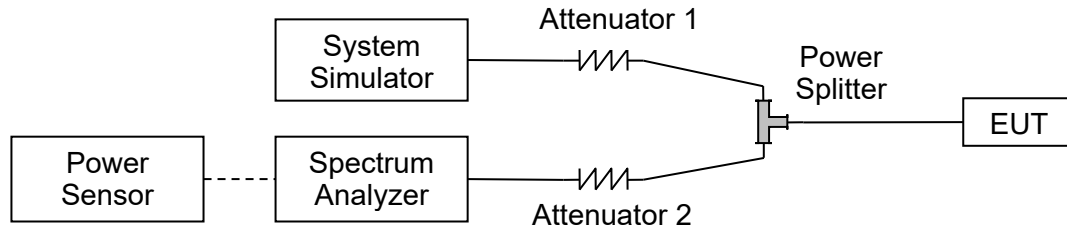
According to FCC section 22.913 (a)(2) for LTE Band 5, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h)(2) for LTE Band 7, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

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

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

2.1.2. Test Description



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

2.1.3. Test Procedure

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

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

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

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

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.17	23.21	23.18
20	QPSK	1	49	23.00	23.08	23.01
20	QPSK	1	99	22.98	23.14	23.12
20	QPSK	50	0	22.34	22.43	22.36
20	QPSK	50	24	22.35	22.40	22.40
20	QPSK	50	50	22.40	22.36	22.42
20	QPSK	100	0	22.33	22.42	22.38
20	16QAM	1	0	22.39	22.39	22.41
20	16QAM	1	49	22.23	22.53	22.49
20	16QAM	1	99	22.48	22.33	22.73
20	16QAM	50	0	22.41	22.38	22.36
20	16QAM	50	24	22.37	22.42	22.43
20	16QAM	50	50	22.45	22.42	22.49
20	16QAM	100	0	22.48	22.49	22.36
20	64QAM	1	0	21.43	21.62	21.36
20	64QAM	1	49	21.38	21.56	21.47
20	64QAM	1	99	21.33	21.66	21.66
20	64QAM	50	0	21.43	21.35	21.40
20	64QAM	50	24	21.46	21.40	21.45
20	64QAM	50	50	21.45	21.46	21.40
20	64QAM	100	0	21.33	21.30	21.31



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.83	22.86	22.77
15	QPSK	1	37	22.62	22.98	22.86
15	QPSK	1	74	22.99	22.91	22.99
15	QPSK	36	0	22.20	22.29	22.28
15	QPSK	36	20	22.19	22.38	22.35
15	QPSK	36	39	22.31	22.32	22.29
15	QPSK	75	0	22.23	22.29	22.25
15	16QAM	1	0	22.32	22.40	22.34
15	16QAM	1	37	22.45	22.48	22.34
15	16QAM	1	74	22.40	22.52	22.52
15	16QAM	36	0	22.19	22.24	22.27
15	16QAM	36	20	22.28	22.21	22.34
15	16QAM	36	39	22.33	22.42	22.39
15	16QAM	75	0	22.20	22.22	22.31
15	64QAM	1	0	21.40	21.16	21.22
15	64QAM	1	37	21.39	21.20	21.62
15	64QAM	1	74	21.28	21.32	21.47
15	64QAM	36	0	21.13	21.30	21.18
15	64QAM	36	20	21.33	21.35	21.25
15	64QAM	36	39	21.21	21.26	21.35
15	64QAM	75	0	21.20	21.27	21.26



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.80	22.79	22.89
10	QPSK	1	25	22.91	23.01	22.89
10	QPSK	1	49	22.80	22.88	22.80
10	QPSK	25	0	22.31	22.32	22.28
10	QPSK	25	12	22.27	22.39	22.32
10	QPSK	25	25	22.18	22.31	22.27
10	QPSK	50	0	22.24	22.33	22.31
10	16QAM	1	0	22.72	22.65	22.64
10	16QAM	1	25	22.41	22.37	22.44
10	16QAM	1	49	22.36	22.44	22.23
10	16QAM	25	0	22.26	22.25	21.80
10	16QAM	25	12	21.88	21.84	21.83
10	16QAM	25	25	21.83	21.79	21.78
10	16QAM	50	0	21.79	21.72	21.76
10	64QAM	1	0	21.30	21.35	21.35
10	64QAM	1	25	21.33	21.38	21.42
10	64QAM	1	49	21.00	21.13	21.10
10	64QAM	25	0	21.30	21.34	21.35
10	64QAM	25	12	21.33	21.31	21.32
10	64QAM	25	25	21.26	21.04	21.26
10	64QAM	50	0	21.27	21.27	21.24



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.94	22.99	22.93
5	QPSK	1	12	22.93	23.04	22.91
5	QPSK	1	24	22.89	23.05	22.98
5	QPSK	12	0	22.30	22.21	22.28
5	QPSK	12	7	22.31	22.36	22.28
5	QPSK	12	13	22.30	22.29	22.32
5	QPSK	25	0	22.29	22.27	22.29
5	16QAM	1	0	22.42	22.32	22.70
5	16QAM	1	12	22.40	22.33	22.70
5	16QAM	1	24	22.43	22.30	22.69
5	16QAM	12	0	22.13	22.16	21.93
5	16QAM	12	7	21.85	21.87	21.81
5	16QAM	12	13	21.88	21.77	21.72
5	16QAM	25	0	21.80	21.78	21.76
5	64QAM	1	0	21.69	21.24	21.29
5	64QAM	1	12	21.68	21.34	21.45
5	64QAM	1	24	21.69	21.33	21.35
5	64QAM	12	0	21.34	21.27	21.26
5	64QAM	12	7	21.40	21.24	21.24
5	64QAM	12	13	21.37	21.33	21.31
5	64QAM	25	0	21.44	21.24	21.31



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.87	22.65	22.77
3	QPSK	1	8	22.80	23.01	22.84
3	QPSK	1	14	22.99	22.86	22.86
3	QPSK	8	0	22.18	22.13	22.15
3	QPSK	8	4	22.24	22.18	22.19
3	QPSK	8	7	22.24	22.18	22.14
3	QPSK	15	0	22.16	22.24	22.17
3	16QAM	1	0	22.32	22.23	22.17
3	16QAM	1	8	22.36	22.30	22.26
3	16QAM	1	14	22.29	22.26	22.14
3	16QAM	8	0	21.72	21.85	21.77
3	16QAM	8	4	21.79	21.76	21.82
3	16QAM	8	7	21.69	21.74	21.77
3	16QAM	15	0	21.72	21.76	21.71
3	64QAM	1	0	21.25	21.18	21.21
3	64QAM	1	8	21.67	21.66	21.26
3	64QAM	1	14	21.28	21.64	21.28
3	64QAM	8	0	21.20	21.22	21.06
3	64QAM	8	4	21.30	21.20	21.20
3	64QAM	8	7	21.40	21.29	21.15
3	64QAM	15	0	21.25	21.25	21.23



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.74	22.76	22.72
1.4	QPSK	1	3	22.84	22.82	22.81
1.4	QPSK	1	5	22.81	22.79	22.77
1.4	QPSK	3	0	23.05	23.05	23.01
1.4	QPSK	3	1	23.09	23.06	23.04
1.4	QPSK	3	3	23.11	23.15	23.04
1.4	QPSK	6	0	22.14	22.12	22.11
1.4	16QAM	1	0	22.17	22.17	22.11
1.4	16QAM	1	3	22.13	22.33	22.31
1.4	16QAM	1	5	22.01	22.21	21.89
1.4	16QAM	3	0	22.03	22.08	22.05
1.4	16QAM	3	1	22.21	22.03	22.08
1.4	16QAM	3	3	22.23	22.20	21.94
1.4	16QAM	6	0	22.24	22.17	22.12
1.4	64QAM	1	0	21.12	21.04	21.07
1.4	64QAM	1	3	21.14	21.35	21.23
1.4	64QAM	1	5	21.12	21.47	21.06
1.4	64QAM	3	0	21.15	21.21	21.22
1.4	64QAM	3	1	21.24	21.21	20.95
1.4	64QAM	3	3	21.16	21.30	21.07
1.4	64QAM	6	0	21.21	21.24	21.13



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.29	23.41	23.36
20	QPSK	1	49	23.15	23.23	23.22
20	QPSK	1	99	23.07	23.20	23.32
20	QPSK	50	0	22.36	22.49	22.46
20	QPSK	50	24	22.36	22.44	22.44
20	QPSK	50	50	22.25	22.36	22.37
20	QPSK	100	0	22.35	22.39	22.46
20	16QAM	1	0	22.22	22.30	22.19
20	16QAM	1	49	22.37	22.14	22.28
20	16QAM	1	99	22.16	22.38	22.14
20	16QAM	50	0	22.03	22.08	22.18
20	16QAM	50	24	21.99	22.10	21.99
20	16QAM	50	50	21.95	21.96	21.96
20	16QAM	100	0	21.97	22.05	22.06
20	64QAM	1	0	21.33	21.44	21.66
20	64QAM	1	49	21.37	21.30	21.18
20	64QAM	1	99	21.64	21.21	21.68
20	64QAM	50	0	21.34	21.43	21.38
20	64QAM	50	24	21.36	21.47	21.41
20	64QAM	50	50	21.40	21.35	21.37
20	64QAM	100	0	21.43	21.41	21.50



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.16	23.20	23.30
15	QPSK	1	37	23.20	23.29	23.21
15	QPSK	1	74	23.07	23.29	23.32
15	QPSK	36	0	22.30	22.37	22.40
15	QPSK	36	20	22.34	22.47	22.43
15	QPSK	36	39	22.39	22.38	22.47
15	QPSK	75	0	22.34	22.36	22.37
15	16QAM	1	0	22.04	22.26	21.98
15	16QAM	1	37	22.12	22.12	21.96
15	16QAM	1	74	21.98	22.28	22.07
15	16QAM	36	0	21.99	22.01	22.20
15	16QAM	36	20	21.94	22.01	22.07
15	16QAM	36	39	21.90	21.99	22.05
15	16QAM	75	0	22.01	22.02	22.11
15	64QAM	1	0	21.20	21.51	21.56
15	64QAM	1	37	21.62	21.38	21.44
15	64QAM	1	74	21.66	21.37	21.41
15	64QAM	36	0	21.31	21.38	21.42
15	64QAM	36	20	21.37	21.39	21.41
15	64QAM	36	39	21.40	21.36	21.38
15	64QAM	75	0	21.33	21.44	21.37



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.08	23.27	23.10
10	QPSK	1	25	23.06	23.19	23.20
10	QPSK	1	49	23.14	22.97	23.20
10	QPSK	25	0	22.13	22.35	22.37
10	QPSK	25	12	22.25	22.31	22.35
10	QPSK	25	25	22.14	22.25	22.32
10	QPSK	50	0	22.20	22.30	22.22
10	16QAM	1	0	21.95	22.10	21.86
10	16QAM	1	25	22.22	21.96	22.28
10	16QAM	1	49	22.29	22.19	22.18
10	16QAM	25	0	21.95	21.94	21.93
10	16QAM	25	12	21.87	21.97	21.94
10	16QAM	25	25	22.21	22.12	22.21
10	16QAM	50	0	22.15	22.19	22.31
10	64QAM	1	0	21.25	21.33	21.23
10	64QAM	1	25	21.32	21.61	21.70
10	64QAM	1	49	21.30	21.34	21.29
10	64QAM	25	0	21.14	21.28	21.27
10	64QAM	25	12	21.23	21.34	21.38
10	64QAM	25	25	21.11	21.23	21.25
10	64QAM	50	0	21.17	21.24	21.23



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				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.98	23.20	23.25
5	QPSK	1	12	23.04	23.19	23.16
5	QPSK	1	24	22.99	23.11	23.10
5	QPSK	12	0	22.21	22.21	22.25
5	QPSK	12	7	22.21	22.32	22.29
5	QPSK	12	13	22.16	22.33	22.25
5	QPSK	25	0	22.19	22.23	22.29
5	16QAM	1	0	21.85	22.26	21.94
5	16QAM	1	12	21.96	22.31	21.90
5	16QAM	1	24	21.90	22.25	21.85
5	16QAM	12	0	21.89	21.83	21.86
5	16QAM	12	7	21.92	21.96	21.94
5	16QAM	12	13	22.19	22.26	22.30
5	16QAM	25	0	22.20	22.31	22.24
5	64QAM	1	0	21.21	21.65	21.63
5	64QAM	1	12	21.59	21.35	21.62
5	64QAM	1	24	21.55	21.25	21.32
5	64QAM	12	0	21.22	21.29	21.31
5	64QAM	12	7	21.21	21.30	21.36
5	64QAM	12	13	21.22	21.28	21.27
5	64QAM	25	0	21.17	21.31	21.22



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.10	23.11	23.23
3	QPSK	1	8	23.19	23.33	23.27
3	QPSK	1	14	22.99	23.18	23.18
3	QPSK	8	0	22.19	22.25	22.26
3	QPSK	8	4	22.25	22.33	22.35
3	QPSK	8	7	22.21	22.31	22.31
3	QPSK	15	0	22.21	22.27	22.21
3	16QAM	1	0	22.05	22.14	22.18
3	16QAM	1	8	22.27	22.27	22.01
3	16QAM	1	14	22.18	21.96	22.04
3	16QAM	8	0	21.97	21.98	22.07
3	16QAM	8	4	22.07	22.07	22.08
3	16QAM	8	7	22.29	22.37	22.41
3	16QAM	15	0	22.29	22.27	22.34
3	64QAM	1	0	21.20	21.29	21.27
3	64QAM	1	8	21.39	21.27	21.43
3	64QAM	1	14	21.20	21.27	21.10
3	64QAM	8	0	21.18	21.22	21.16
3	64QAM	8	4	21.30	21.28	21.32
3	64QAM	8	7	21.24	21.31	21.43
3	64QAM	15	0	21.20	21.28	21.19



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	22.85	23.06	23.07
1.4	QPSK	1	3	23.19	23.19	23.23
1.4	QPSK	1	5	23.05	23.14	23.16
1.4	QPSK	3	0	23.13	23.10	23.09
1.4	QPSK	3	1	23.09	23.19	23.24
1.4	QPSK	3	3	23.08	23.15	23.14
1.4	QPSK	6	0	21.97	22.06	22.06
1.4	16QAM	1	0	21.94	22.41	22.07
1.4	16QAM	1	3	22.07	22.15	22.19
1.4	16QAM	1	5	22.13	22.29	22.09
1.4	16QAM	3	0	22.16	22.20	22.11
1.4	16QAM	3	1	22.17	22.20	22.22
1.4	16QAM	3	3	22.16	22.28	22.17
1.4	16QAM	6	0	22.07	22.08	21.99
1.4	64QAM	1	0	21.09	21.03	21.17
1.4	64QAM	1	3	21.35	21.33	21.45
1.4	64QAM	1	5	21.26	21.22	21.06
1.4	64QAM	3	0	21.17	21.15	21.34
1.4	64QAM	3	1	21.08	21.23	21.20
1.4	64QAM	3	3	21.14	21.31	21.19
1.4	64QAM	6	0	21.13	21.14	21.21



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.53	23.54	23.35
10	QPSK	1	25	23.39	23.42	23.22
10	QPSK	1	49	23.31	23.43	23.11
10	QPSK	25	0	22.62	22.64	22.45
10	QPSK	25	12	22.38	22.40	22.45
10	QPSK	25	25	22.38	22.49	22.54
10	QPSK	50	0	22.44	22.32	22.46
10	16QAM	1	0	22.48	22.67	22.38
10	16QAM	1	25	22.71	22.74	22.42
10	16QAM	1	49	22.54	22.60	22.67
10	16QAM	25	0	22.63	22.64	22.46
10	16QAM	25	12	22.57	22.65	22.43
10	16QAM	25	25	22.60	22.53	22.56
10	16QAM	50	0	22.61	22.52	22.42
10	64QAM	1	0	21.57	21.67	21.55
10	64QAM	1	25	21.54	21.74	21.54
10	64QAM	1	49	21.43	21.65	21.56
10	64QAM	25	0	21.54	21.65	21.32
10	64QAM	25	12	21.53	21.70	21.41
10	64QAM	25	25	21.65	21.54	21.24
10	64QAM	50	0	21.61	21.57	21.43



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.48	23.44	23.42
5	QPSK	1	12	23.38	23.49	23.33
5	QPSK	1	24	23.38	23.33	23.33
5	QPSK	12	0	22.53	22.58	22.44
5	QPSK	12	7	22.60	22.61	22.53
5	QPSK	12	13	22.65	22.49	22.44
5	QPSK	25	0	22.56	22.52	22.44
5	16QAM	1	0	22.85	22.78	22.54
5	16QAM	1	12	22.55	22.77	22.53
5	16QAM	1	24	22.42	22.77	22.60
5	16QAM	12	0	22.51	22.60	22.59
5	16QAM	12	7	22.58	22.61	22.43
5	16QAM	12	13	22.58	22.49	22.54
5	16QAM	25	0	22.59	22.64	22.59
5	64QAM	1	0	21.66	21.54	21.65
5	64QAM	1	12	21.54	21.48	21.62
5	64QAM	1	24	21.68	21.52	21.46
5	64QAM	12	0	21.40	21.54	21.34
5	64QAM	12	7	21.44	21.60	21.38
5	64QAM	12	13	21.62	21.57	21.14
5	64QAM	25	0	21.50	21.57	21.18



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.17	23.48	23.33
3	QPSK	1	8	23.43	23.44	23.35
3	QPSK	1	14	23.44	23.42	23.16
3	QPSK	8	0	22.46	22.59	22.57
3	QPSK	8	4	22.60	22.66	22.63
3	QPSK	8	7	22.55	22.57	22.44
3	QPSK	15	0	22.53	22.59	22.58
3	16QAM	1	0	22.55	22.66	22.73
3	16QAM	1	8	22.48	22.74	22.58
3	16QAM	1	14	22.53	22.79	22.54
3	16QAM	8	0	22.49	22.58	22.32
3	16QAM	8	4	22.65	22.76	22.33
3	16QAM	8	7	22.57	22.63	22.37
3	16QAM	15	0	22.51	22.53	22.08
3	64QAM	1	0	21.46	21.34	21.55
3	64QAM	1	8	21.34	21.58	21.34
3	64QAM	1	14	21.36	21.54	21.35
3	64QAM	8	0	21.46	21.56	21.54
3	64QAM	8	4	21.68	21.52	21.46
3	64QAM	8	7	21.63	21.55	21.52
3	64QAM	15	0	21.52	21.62	21.42



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.38	23.45	23.49
1.4	QPSK	1	3	23.51	23.44	23.51
1.4	QPSK	1	5	23.40	23.34	23.35
1.4	QPSK	3	0	23.41	23.47	23.43
1.4	QPSK	3	1	23.47	23.34	23.44
1.4	QPSK	3	3	23.48	23.40	23.40
1.4	QPSK	6	0	22.51	22.50	22.49
1.4	16QAM	1	0	22.64	22.45	22.62
1.4	16QAM	1	3	22.44	22.68	22.57
1.4	16QAM	1	5	22.83	22.51	22.57
1.4	16QAM	3	0	22.36	22.34	22.48
1.4	16QAM	3	1	22.39	22.66	22.52
1.4	16QAM	3	3	22.47	22.58	22.46
1.4	16QAM	6	0	22.66	22.53	22.57
1.4	64QAM	1	0	21.19	21.36	21.38
1.4	64QAM	1	3	21.50	21.51	21.46
1.4	64QAM	1	5	21.45	21.44	21.32
1.4	64QAM	3	0	21.11	21.38	21.39
1.4	64QAM	3	1	21.39	21.33	21.34
1.4	64QAM	3	3	21.29	21.46	21.50
1.4	64QAM	6	0	21.50	21.62	21.51



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	23.31	23.32	23.24
20	QPSK	1	49	23.26	23.30	23.19
20	QPSK	1	99	23.21	23.16	23.21
20	QPSK	50	0	22.20	22.57	22.24
20	QPSK	50	24	22.26	22.23	22.13
20	QPSK	50	50	22.36	22.39	22.36
20	QPSK	100	0	22.31	22.33	22.30
20	16QAM	1	0	22.12	22.22	22.40
20	16QAM	1	49	22.27	22.13	22.41
20	16QAM	1	99	22.21	22.52	22.17
20	16QAM	50	0	22.06	22.16	22.09
20	16QAM	50	24	22.11	22.03	22.14
20	16QAM	50	50	22.19	22.24	22.07
20	16QAM	100	0	22.07	22.19	22.17
20	64QAM	1	0	21.67	21.51	21.24
20	64QAM	1	49	21.61	21.58	21.63
20	64QAM	1	99	21.59	21.64	21.55
20	64QAM	50	0	21.33	21.34	21.39
20	64QAM	50	24	21.38	21.39	21.39
20	64QAM	50	50	21.42	21.49	21.34
20	64QAM	100	0	21.35	21.32	21.44



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	23.14	23.23	23.23
15	QPSK	1	37	23.24	23.21	23.25
15	QPSK	1	74	23.18	23.25	23.25
15	QPSK	36	0	22.29	22.38	22.40
15	QPSK	36	20	22.37	22.44	22.39
15	QPSK	36	39	22.40	22.43	22.47
15	QPSK	75	0	22.46	22.39	22.41
15	16QAM	1	0	22.62	22.73	22.80
15	16QAM	1	37	22.44	22.55	22.53
15	16QAM	1	74	22.48	22.48	22.70
15	16QAM	36	0	22.07	22.18	22.20
15	16QAM	36	20	22.14	22.17	22.16
15	16QAM	36	39	22.20	22.18	22.07
15	16QAM	75	0	22.15	22.23	22.15
15	64QAM	1	0	21.57	21.54	21.42
15	64QAM	1	37	21.47	21.62	21.71
15	64QAM	1	74	21.46	21.58	21.64
15	64QAM	36	0	21.31	21.39	21.38
15	64QAM	36	20	21.42	21.41	21.48
15	64QAM	36	39	21.46	21.37	21.39
15	64QAM	75	0	21.31	21.41	21.36



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	23.13	23.00	23.03
10	QPSK	1	25	23.16	23.06	23.08
10	QPSK	1	49	23.09	23.06	23.08
10	QPSK	25	0	22.21	22.21	22.20
10	QPSK	25	12	22.17	22.29	22.34
10	QPSK	25	25	22.10	22.28	22.28
10	QPSK	50	0	22.19	22.31	22.30
10	16QAM	1	0	22.24	22.42	22.27
10	16QAM	1	25	22.23	22.25	22.30
10	16QAM	1	49	22.70	22.60	22.51
10	16QAM	25	0	22.13	22.01	22.09
10	16QAM	25	12	21.95	22.12	22.05
10	16QAM	25	25	22.00	22.03	21.95
10	16QAM	50	0	22.03	22.12	21.97
10	64QAM	1	0	21.57	21.53	21.51
10	64QAM	1	25	21.26	21.51	21.34
10	64QAM	1	49	21.37	21.61	21.42
10	64QAM	25	0	21.23	21.21	21.25
10	64QAM	25	12	21.25	21.36	21.29
10	64QAM	25	25	21.18	21.08	21.07
10	64QAM	50	0	21.12	21.18	21.10



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	23.17	23.08	22.98
5	QPSK	1	12	23.04	22.97	23.05
5	QPSK	1	24	22.98	23.04	23.08
5	QPSK	12	0	22.01	22.09	22.01
5	QPSK	12	7	22.08	22.23	22.15
5	QPSK	12	13	22.10	22.26	22.11
5	QPSK	25	0	22.11	22.12	22.07
5	16QAM	1	0	22.09	22.07	22.13
5	16QAM	1	12	22.14	22.36	22.26
5	16QAM	1	24	22.20	22.39	22.21
5	16QAM	12	0	22.11	22.17	22.08
5	16QAM	12	7	22.00	22.02	21.98
5	16QAM	12	13	22.00	22.06	22.19
5	16QAM	25	0	21.97	22.02	22.04
5	64QAM	1	0	21.33	21.38	21.34
5	64QAM	1	12	21.38	21.50	21.38
5	64QAM	1	24	21.42	21.52	21.48
5	64QAM	12	0	21.13	21.10	21.15
5	64QAM	12	7	21.22	21.27	21.06
5	64QAM	12	13	21.17	21.26	21.12
5	64QAM	25	0	21.12	21.11	21.16



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.42	23.58	23.47
10	QPSK	1	25	23.28	23.41	23.44
10	QPSK	1	49	23.38	23.39	23.38
10	QPSK	25	0	22.67	22.77	22.68
10	QPSK	25	12	22.64	22.58	22.37
10	QPSK	25	25	22.69	22.75	22.68
10	QPSK	50	0	22.70	22.72	22.63
10	16QAM	1	0	22.63	22.18	22.31
10	16QAM	1	25	22.38	22.33	22.47
10	16QAM	1	49	22.47	22.52	22.41
10	16QAM	25	0	22.36	22.38	22.32
10	16QAM	25	12	22.40	22.44	22.33
10	16QAM	25	25	22.45	22.46	22.40
10	16QAM	50	0	22.35	22.43	22.48
10	64QAM	1	0	21.50	21.62	21.96
10	64QAM	1	25	21.94	22.00	21.59
10	64QAM	1	49	21.96	21.64	21.57
10	64QAM	25	0	21.47	21.41	21.38
10	64QAM	25	12	21.52	21.55	21.47
10	64QAM	25	25	21.57	21.54	21.54
10	64QAM	50	0	21.49	21.42	21.53



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.17	23.33	23.28
5	QPSK	1	12	23.33	23.49	23.33
5	QPSK	1	24	23.29	23.48	23.34
5	QPSK	12	0	22.40	22.47	22.46
5	QPSK	12	7	22.51	22.53	22.50
5	QPSK	12	13	22.46	22.49	22.46
5	QPSK	25	0	22.42	22.54	22.50
5	16QAM	1	0	22.43	22.45	22.47
5	16QAM	1	12	22.60	22.55	22.56
5	16QAM	1	24	22.56	22.54	22.50
5	16QAM	12	0	22.30	22.27	22.30
5	16QAM	12	7	22.44	22.49	22.33
5	16QAM	12	13	22.39	22.36	22.41
5	16QAM	25	0	22.40	22.36	22.38
5	64QAM	1	0	21.48	21.49	21.54
5	64QAM	1	12	21.93	21.63	21.56
5	64QAM	1	24	21.91	21.60	21.65
5	64QAM	12	0	21.45	21.47	21.42
5	64QAM	12	7	21.55	21.43	21.49
5	64QAM	12	13	21.42	21.52	21.57
5	64QAM	25	0	21.57	21.53	21.50



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	23.25	23.34	23.19
3	QPSK	1	8	23.43	23.42	23.52
3	QPSK	1	14	23.37	23.48	23.43
3	QPSK	8	0	22.48	22.46	22.46
3	QPSK	8	4	22.51	22.54	22.55
3	QPSK	8	7	22.46	22.54	22.48
3	QPSK	15	0	22.45	22.53	22.39
3	16QAM	1	0	22.46	22.82	22.41
3	16QAM	1	8	22.66	22.64	22.59
3	16QAM	1	14	22.49	22.54	22.40
3	16QAM	8	0	22.46	22.35	22.38
3	16QAM	8	4	22.51	22.48	22.59
3	16QAM	8	7	22.35	22.38	22.44
3	16QAM	15	0	22.33	22.26	22.25
3	64QAM	1	0	21.49	21.83	21.82
3	64QAM	1	8	21.78	21.68	21.69
3	64QAM	1	14	21.71	21.56	21.67
3	64QAM	8	0	21.38	21.46	21.37
3	64QAM	8	4	21.47	21.51	21.50
3	64QAM	8	7	21.46	21.38	21.53
3	64QAM	15	0	21.45	21.47	21.39



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	23.28	23.32	23.25
1.4	QPSK	1	3	23.39	23.38	23.40
1.4	QPSK	1	5	23.28	23.33	23.29
1.4	QPSK	3	0	23.23	23.36	23.34
1.4	QPSK	3	1	23.44	23.44	23.45
1.4	QPSK	3	3	23.39	23.41	23.37
1.4	QPSK	6	0	22.45	22.42	22.40
1.4	16QAM	1	0	22.49	22.43	22.28
1.4	16QAM	1	3	22.30	22.73	22.40
1.4	16QAM	1	5	22.42	22.43	22.42
1.4	16QAM	3	0	22.26	22.29	22.30
1.4	16QAM	3	1	22.42	22.50	22.34
1.4	16QAM	3	3	22.25	22.39	22.39
1.4	16QAM	6	0	22.18	22.38	22.28
1.4	64QAM	1	0	21.33	21.48	21.32
1.4	64QAM	1	3	21.45	21.38	21.43
1.4	64QAM	1	5	21.61	21.64	21.60
1.4	64QAM	3	0	21.51	21.52	21.35
1.4	64QAM	3	1	21.49	21.73	21.58
1.4	64QAM	3	3	21.51	21.35	21.51
1.4	64QAM	6	0	21.47	21.48	21.35



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	23230	/
Frequency (MHz)				/	782	/
10	QPSK	1	0	/	23.25	/
10	QPSK	1	25	/	22.87	/
10	QPSK	1	49	/	22.97	/
10	QPSK	25	0	/	22.34	/
10	QPSK	25	12	/	22.15	/
10	QPSK	25	25	/	22.09	/
10	QPSK	50	0	/	22.12	/
10	16QAM	1	0	/	22.24	/
10	16QAM	1	25	/	22.16	/
10	16QAM	1	49	/	22.46	/
10	16QAM	25	0	/	21.27	/
10	16QAM	25	12	/	21.22	/
10	16QAM	25	25	/	21.35	/
10	16QAM	50	0	/	21.12	/
10	64QAM	1	0	/	21.42	/
10	64QAM	1	25	/	21.24	/
10	64QAM	1	49	/	21.21	/
10	64QAM	25	0	/	21.14	/
10	64QAM	25	12	/	21.07	/
10	64QAM	25	25	/	21.13	/
10	64QAM	50	0	/	21.20	/



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	22.99	23.11	23.11
5	QPSK	1	12	23.07	22.80	23.00
5	QPSK	1	24	22.83	23.01	23.04
5	QPSK	12	0	22.05	22.13	22.22
5	QPSK	12	7	22.12	22.11	22.20
5	QPSK	12	13	22.04	22.20	22.18
5	QPSK	25	0	22.11	22.08	22.18
5	16QAM	1	0	22.18	22.54	22.33
5	16QAM	1	12	22.24	22.39	22.27
5	16QAM	1	24	22.34	22.16	22.17
5	16QAM	12	0	21.77	21.74	21.67
5	16QAM	12	7	21.78	21.67	21.79
5	16QAM	12	13	21.75	21.74	21.78
5	16QAM	25	0	21.12	21.16	21.18
5	64QAM	1	0	21.38	21.36	21.28
5	64QAM	1	12	21.34	21.24	21.37
5	64QAM	1	24	21.35	21.34	21.34
5	64QAM	12	0	21.17	21.23	21.30
5	64QAM	12	7	21.34	21.13	21.23
5	64QAM	12	13	21.13	21.24	21.14
5	64QAM	25	0	21.04	21.15	21.15



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.03	23.16	22.81
10	QPSK	1	25	23.02	22.93	23.02
10	QPSK	1	49	22.99	22.83	22.99
10	QPSK	25	0	22.25	22.33	22.13
10	QPSK	25	12	22.17	22.16	22.22
10	QPSK	25	25	22.23	22.10	22.18
10	QPSK	50	0	22.21	22.23	22.23
10	16QAM	1	0	22.11	22.19	22.13
10	16QAM	1	25	22.23	22.23	22.23
10	16QAM	1	49	22.47	22.49	22.15
10	16QAM	25	0	22.23	21.93	22.27
10	16QAM	25	12	21.83	22.14	21.98
10	16QAM	25	25	21.97	22.14	21.85
10	16QAM	50	0	21.94	21.97	22.00
10	64QAM	1	0	21.64	21.33	21.59
10	64QAM	1	25	21.62	21.29	21.29
10	64QAM	1	49	21.52	21.25	21.33
10	64QAM	25	0	21.29	21.29	21.29
10	64QAM	25	12	21.17	21.25	21.21
10	64QAM	25	25	21.29	20.99	21.33
10	64QAM	50	0	21.03	21.20	21.04



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	22.57	22.74	22.76
5	QPSK	1	12	23.01	23.05	23.05
5	QPSK	1	24	22.89	22.83	22.85
5	QPSK	12	0	22.00	21.97	22.01
5	QPSK	12	7	22.11	22.15	22.16
5	QPSK	12	13	22.08	22.10	22.07
5	QPSK	25	0	22.09	21.98	22.02
5	16QAM	1	0	22.00	21.93	22.13
5	16QAM	1	12	22.05	21.97	22.03
5	16QAM	1	24	22.03	21.94	22.02
5	16QAM	12	0	21.96	22.01	21.99
5	16QAM	12	7	22.11	22.01	22.13
5	16QAM	12	13	22.07	22.06	22.06
5	16QAM	25	0	22.08	22.02	22.06
5	64QAM	1	0	21.13	21.24	21.07
5	64QAM	1	12	21.12	21.23	21.08
5	64QAM	1	24	21.13	21.13	21.13
5	64QAM	12	0	21.23	21.00	21.01
5	64QAM	12	7	21.10	21.03	21.17
5	64QAM	12	13	21.08	21.10	21.03
5	64QAM	25	0	21.04	21.08	21.09

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

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.87	0.244	23.91	0.246	23.88	0.244
20	QPSK	1	49	23.70	0.234	23.78	0.239	23.71	0.235
20	QPSK	1	99	23.68	0.233	23.84	0.242	23.82	0.241
20	QPSK	50	0	23.04	0.201	23.13	0.206	23.06	0.202
20	QPSK	50	24	23.05	0.202	23.10	0.204	23.10	0.204
20	QPSK	50	50	23.10	0.204	23.06	0.202	23.12	0.205
20	QPSK	100	0	23.03	0.201	23.12	0.205	23.08	0.203
20	16QAM	1	0	23.09	0.204	23.09	0.204	23.11	0.205
20	16QAM	1	49	22.93	0.196	23.23	0.210	23.19	0.208
20	16QAM	1	99	23.18	0.208	23.03	0.201	23.43	0.220
20	16QAM	50	0	23.11	0.205	23.08	0.203	23.06	0.202
20	16QAM	50	24	23.07	0.203	23.12	0.205	23.13	0.206
20	16QAM	50	50	23.15	0.207	23.12	0.205	23.19	0.208
20	16QAM	100	0	23.18	0.208	23.19	0.208	23.06	0.202
20	64QAM	1	0	22.13	0.163	22.32	0.171	22.06	0.161
20	64QAM	1	49	22.08	0.161	22.26	0.168	22.17	0.165
20	64QAM	1	99	22.03	0.160	22.36	0.172	22.36	0.172
20	64QAM	50	0	22.13	0.163	22.05	0.160	22.10	0.162
20	64QAM	50	24	22.16	0.164	22.10	0.162	22.15	0.164
20	64QAM	50	50	22.15	0.164	22.16	0.164	22.10	0.162
20	64QAM	100	0	22.03	0.160	22.00	0.158	22.01	0.159



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.53	0.225	23.56	0.227	23.47	0.222
15	QPSK	1	37	23.32	0.215	23.68	0.233	23.56	0.227
15	QPSK	1	74	23.69	0.234	23.61	0.230	23.69	0.234
15	QPSK	36	0	22.90	0.195	22.99	0.199	22.98	0.199
15	QPSK	36	20	22.89	0.195	23.08	0.203	23.05	0.202
15	QPSK	36	39	23.01	0.200	23.02	0.200	22.99	0.199
15	QPSK	75	0	22.93	0.196	22.99	0.199	22.95	0.197
15	16QAM	1	0	23.02	0.200	23.10	0.204	23.04	0.201
15	16QAM	1	37	23.15	0.207	23.18	0.208	23.04	0.201
15	16QAM	1	74	23.10	0.204	23.22	0.210	23.22	0.210
15	16QAM	36	0	22.89	0.195	22.94	0.197	22.97	0.198
15	16QAM	36	20	22.98	0.199	22.91	0.195	23.04	0.201
15	16QAM	36	39	23.03	0.201	23.12	0.205	23.09	0.204
15	16QAM	75	0	22.90	0.195	22.92	0.196	23.01	0.200
15	64QAM	1	0	22.10	0.162	21.86	0.153	21.92	0.156
15	64QAM	1	37	22.09	0.162	21.90	0.155	22.32	0.171
15	64QAM	1	74	21.98	0.158	22.02	0.159	22.17	0.165
15	64QAM	36	0	21.83	0.152	22.00	0.158	21.88	0.154
15	64QAM	36	20	22.03	0.160	22.05	0.160	21.95	0.157
15	64QAM	36	39	21.91	0.155	21.96	0.157	22.05	0.160
15	64QAM	75	0	21.90	0.155	21.97	0.157	21.96	0.157



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.50	0.224	23.49	0.223	23.59	0.229
10	QPSK	1	25	23.61	0.230	23.71	0.235	23.59	0.229
10	QPSK	1	49	23.50	0.224	23.58	0.228	23.50	0.224
10	QPSK	25	0	23.01	0.200	23.02	0.200	22.98	0.199
10	QPSK	25	12	22.97	0.198	23.09	0.204	23.02	0.200
10	QPSK	25	25	22.88	0.194	23.01	0.200	22.97	0.198
10	QPSK	50	0	22.94	0.197	23.03	0.201	23.01	0.200
10	16QAM	1	0	23.42	0.220	23.35	0.216	23.34	0.216
10	16QAM	1	25	23.11	0.205	23.07	0.203	23.14	0.206
10	16QAM	1	49	23.06	0.202	23.14	0.206	22.93	0.196
10	16QAM	25	0	22.96	0.198	22.95	0.197	22.50	0.178
10	16QAM	25	12	22.58	0.181	22.54	0.179	22.53	0.179
10	16QAM	25	25	22.53	0.179	22.49	0.177	22.48	0.177
10	16QAM	50	0	22.49	0.177	22.42	0.175	22.46	0.176
10	64QAM	1	0	22.00	0.158	22.05	0.160	22.05	0.160
10	64QAM	1	25	22.03	0.160	22.08	0.161	22.12	0.163
10	64QAM	1	49	21.70	0.148	21.83	0.152	21.80	0.151
10	64QAM	25	0	22.00	0.158	22.04	0.160	22.05	0.160
10	64QAM	25	12	22.03	0.160	22.01	0.159	22.02	0.159
10	64QAM	25	25	21.96	0.157	21.74	0.149	21.96	0.157
10	64QAM	50	0	21.97	0.157	21.97	0.157	21.94	0.156



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.64	0.231	23.69	0.234	23.63	0.231
5	QPSK	1	12	23.63	0.231	23.74	0.237	23.61	0.230
5	QPSK	1	24	23.59	0.229	23.75	0.237	23.68	0.233
5	QPSK	12	0	23.00	0.200	22.91	0.195	22.98	0.199
5	QPSK	12	7	23.01	0.200	23.06	0.202	22.98	0.199
5	QPSK	12	13	23.00	0.200	22.99	0.199	23.02	0.200
5	QPSK	25	0	22.99	0.199	22.97	0.198	22.99	0.199
5	16QAM	1	0	23.12	0.205	23.02	0.200	23.40	0.219
5	16QAM	1	12	23.10	0.204	23.03	0.201	23.40	0.219
5	16QAM	1	24	23.13	0.206	23.00	0.200	23.39	0.218
5	16QAM	12	0	22.83	0.192	22.86	0.193	22.63	0.183
5	16QAM	12	7	22.55	0.180	22.57	0.181	22.51	0.178
5	16QAM	12	13	22.58	0.181	22.47	0.177	22.42	0.175
5	16QAM	25	0	22.50	0.178	22.48	0.177	22.46	0.176
5	64QAM	1	0	22.39	0.173	21.94	0.156	21.99	0.158
5	64QAM	1	12	22.38	0.173	22.04	0.160	22.15	0.164
5	64QAM	1	24	22.39	0.173	22.03	0.160	22.05	0.160
5	64QAM	12	0	22.04	0.160	21.97	0.157	21.96	0.157
5	64QAM	12	7	22.10	0.162	21.94	0.156	21.94	0.156
5	64QAM	12	13	22.07	0.161	22.03	0.160	22.01	0.159
5	64QAM	25	0	22.14	0.164	21.94	0.156	22.01	0.159



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.57	0.228	23.35	0.216	23.47	0.222
3	QPSK	1	8	23.50	0.224	23.71	0.235	23.54	0.226
3	QPSK	1	14	23.69	0.234	23.56	0.227	23.56	0.227
3	QPSK	8	0	22.88	0.194	22.83	0.192	22.85	0.193
3	QPSK	8	4	22.94	0.197	22.88	0.194	22.89	0.195
3	QPSK	8	7	22.94	0.197	22.88	0.194	22.84	0.192
3	QPSK	15	0	22.86	0.193	22.94	0.197	22.87	0.194
3	16QAM	1	0	23.02	0.200	22.93	0.196	22.87	0.194
3	16QAM	1	8	23.06	0.202	23.00	0.200	22.96	0.198
3	16QAM	1	14	22.99	0.199	22.96	0.198	22.84	0.192
3	16QAM	8	0	22.42	0.175	22.55	0.180	22.47	0.177
3	16QAM	8	4	22.49	0.177	22.46	0.176	22.52	0.179
3	16QAM	8	7	22.39	0.173	22.44	0.175	22.47	0.177
3	16QAM	15	0	22.42	0.175	22.46	0.176	22.41	0.174
3	64QAM	1	0	21.95	0.157	21.88	0.154	21.91	0.155
3	64QAM	1	8	22.37	0.173	22.36	0.172	21.96	0.157
3	64QAM	1	14	21.98	0.158	22.34	0.171	21.98	0.158
3	64QAM	8	0	21.90	0.155	21.92	0.156	21.76	0.150
3	64QAM	8	4	22.00	0.158	21.90	0.155	21.90	0.155
3	64QAM	8	7	22.10	0.162	21.99	0.158	21.85	0.153
3	64QAM	15	0	21.95	0.157	21.95	0.157	21.93	0.156



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.44	0.221	23.46	0.222	23.42	0.220
1.4	QPSK	1	3	23.54	0.226	23.52	0.225	23.51	0.224
1.4	QPSK	1	5	23.51	0.224	23.49	0.223	23.47	0.222
1.4	QPSK	3	0	23.75	0.237	23.75	0.237	23.71	0.235
1.4	QPSK	3	1	23.79	0.239	23.76	0.238	23.74	0.237
1.4	QPSK	3	3	23.81	0.240	23.85	0.243	23.74	0.237
1.4	QPSK	6	0	22.84	0.192	22.82	0.191	22.81	0.191
1.4	16QAM	1	0	22.87	0.194	22.87	0.194	22.81	0.191
1.4	16QAM	1	3	22.83	0.192	23.03	0.201	23.01	0.200
1.4	16QAM	1	5	22.71	0.187	22.91	0.195	22.59	0.182
1.4	16QAM	3	0	22.73	0.187	22.78	0.190	22.75	0.188
1.4	16QAM	3	1	22.91	0.195	22.73	0.187	22.78	0.190
1.4	16QAM	3	3	22.93	0.196	22.90	0.195	22.64	0.184
1.4	16QAM	6	0	22.94	0.197	22.87	0.194	22.82	0.191
1.4	64QAM	1	0	21.82	0.152	21.74	0.149	21.77	0.150
1.4	64QAM	1	3	21.84	0.153	22.05	0.160	21.93	0.156
1.4	64QAM	1	5	21.82	0.152	22.17	0.165	21.76	0.150
1.4	64QAM	3	0	21.85	0.153	21.91	0.155	21.92	0.156
1.4	64QAM	3	1	21.94	0.156	21.91	0.155	21.65	0.146
1.4	64QAM	3	3	21.86	0.153	22.00	0.158	21.77	0.150
1.4	64QAM	6	0	21.91	0.155	21.94	0.156	21.83	0.152



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	24.09	0.256	24.21	0.264	24.16	0.261
20	QPSK	1	49	23.95	0.248	24.03	0.253	24.02	0.252
20	QPSK	1	99	23.87	0.244	24.00	0.251	24.12	0.258
20	QPSK	50	0	23.16	0.207	23.29	0.213	23.26	0.212
20	QPSK	50	24	23.16	0.207	23.24	0.211	23.24	0.211
20	QPSK	50	50	23.05	0.202	23.16	0.207	23.17	0.207
20	QPSK	100	0	23.15	0.207	23.19	0.208	23.26	0.212
20	16QAM	1	0	23.02	0.200	23.10	0.204	22.99	0.199
20	16QAM	1	49	23.17	0.207	22.94	0.197	23.08	0.203
20	16QAM	1	99	22.96	0.198	23.18	0.208	22.94	0.197
20	16QAM	50	0	22.83	0.192	22.88	0.194	22.98	0.199
20	16QAM	50	24	22.79	0.190	22.90	0.195	22.79	0.190
20	16QAM	50	50	22.75	0.188	22.76	0.189	22.76	0.189
20	16QAM	100	0	22.77	0.189	22.85	0.193	22.86	0.193
20	64QAM	1	0	22.13	0.163	22.24	0.167	22.46	0.176
20	64QAM	1	49	22.17	0.165	22.10	0.162	21.98	0.158
20	64QAM	1	99	22.44	0.175	22.01	0.159	22.48	0.177
20	64QAM	50	0	22.14	0.164	22.23	0.167	22.18	0.165
20	64QAM	50	24	22.16	0.164	22.27	0.169	22.21	0.166
20	64QAM	50	50	22.20	0.166	22.15	0.164	22.17	0.165
20	64QAM	100	0	22.23	0.167	22.21	0.166	22.30	0.170



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.96	0.249	24.00	0.251	24.10	0.257
15	QPSK	1	37	24.00	0.251	24.09	0.256	24.01	0.252
15	QPSK	1	74	23.87	0.244	24.09	0.256	24.12	0.258
15	QPSK	36	0	23.10	0.204	23.17	0.207	23.20	0.209
15	QPSK	36	20	23.14	0.206	23.27	0.212	23.23	0.210
15	QPSK	36	39	23.19	0.208	23.18	0.208	23.27	0.212
15	QPSK	75	0	23.14	0.206	23.16	0.207	23.17	0.207
15	16QAM	1	0	22.84	0.192	23.06	0.202	22.78	0.190
15	16QAM	1	37	22.92	0.196	22.92	0.196	22.76	0.189
15	16QAM	1	74	22.78	0.190	23.08	0.203	22.87	0.194
15	16QAM	36	0	22.79	0.190	22.81	0.191	23.00	0.200
15	16QAM	36	20	22.74	0.188	22.81	0.191	22.87	0.194
15	16QAM	36	39	22.70	0.186	22.79	0.190	22.85	0.193
15	16QAM	75	0	22.81	0.191	22.82	0.191	22.91	0.195
15	64QAM	1	0	22.00	0.158	22.31	0.170	22.36	0.172
15	64QAM	1	37	22.42	0.175	22.18	0.165	22.24	0.167
15	64QAM	1	74	22.46	0.176	22.17	0.165	22.21	0.166
15	64QAM	36	0	22.11	0.163	22.18	0.165	22.22	0.167
15	64QAM	36	20	22.17	0.165	22.19	0.166	22.21	0.166
15	64QAM	36	39	22.20	0.166	22.16	0.164	22.18	0.165
15	64QAM	75	0	22.13	0.163	22.24	0.167	22.17	0.165



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.88	0.244	24.07	0.255	23.90	0.245
10	QPSK	1	25	23.86	0.243	23.99	0.251	24.00	0.251
10	QPSK	1	49	23.94	0.248	23.77	0.238	24.00	0.251
10	QPSK	25	0	22.93	0.196	23.15	0.207	23.17	0.207
10	QPSK	25	12	23.05	0.202	23.11	0.205	23.15	0.207
10	QPSK	25	25	22.94	0.197	23.05	0.202	23.12	0.205
10	QPSK	50	0	23.00	0.200	23.10	0.204	23.02	0.200
10	16QAM	1	0	22.75	0.188	22.90	0.195	22.66	0.185
10	16QAM	1	25	23.02	0.200	22.76	0.189	23.08	0.203
10	16QAM	1	49	23.09	0.204	22.99	0.199	22.98	0.199
10	16QAM	25	0	22.75	0.188	22.74	0.188	22.73	0.187
10	16QAM	25	12	22.67	0.185	22.77	0.189	22.74	0.188
10	16QAM	25	25	23.01	0.200	22.92	0.196	23.01	0.200
10	16QAM	50	0	22.95	0.197	22.99	0.199	23.11	0.205
10	64QAM	1	0	22.05	0.160	22.13	0.163	22.03	0.160
10	64QAM	1	25	22.12	0.163	22.41	0.174	22.50	0.178
10	64QAM	1	49	22.10	0.162	22.14	0.164	22.09	0.162
10	64QAM	25	0	21.94	0.156	22.08	0.161	22.07	0.161
10	64QAM	25	12	22.03	0.160	22.14	0.164	22.18	0.165
10	64QAM	25	25	21.91	0.155	22.03	0.160	22.05	0.160
10	64QAM	50	0	21.97	0.157	22.04	0.160	22.03	0.160



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.78	0.239	24.00	0.251	24.05	0.254
5	QPSK	1	12	23.84	0.242	23.99	0.251	23.96	0.249
5	QPSK	1	24	23.79	0.239	23.91	0.246	23.90	0.245
5	QPSK	12	0	23.01	0.200	23.01	0.200	23.05	0.202
5	QPSK	12	7	23.01	0.200	23.12	0.205	23.09	0.204
5	QPSK	12	13	22.96	0.198	23.13	0.206	23.05	0.202
5	QPSK	25	0	22.99	0.199	23.03	0.201	23.09	0.204
5	16QAM	1	0	22.65	0.184	23.06	0.202	22.74	0.188
5	16QAM	1	12	22.76	0.189	23.11	0.205	22.70	0.186
5	16QAM	1	24	22.70	0.186	23.05	0.202	22.65	0.184
5	16QAM	12	0	22.69	0.186	22.63	0.183	22.66	0.185
5	16QAM	12	7	22.72	0.187	22.76	0.189	22.74	0.188
5	16QAM	12	13	22.99	0.199	23.06	0.202	23.10	0.204
5	16QAM	25	0	23.00	0.200	23.11	0.205	23.04	0.201
5	64QAM	1	0	22.01	0.159	22.45	0.176	22.43	0.175
5	64QAM	1	12	22.39	0.173	22.15	0.164	22.42	0.175
5	64QAM	1	24	22.35	0.172	22.05	0.160	22.12	0.163
5	64QAM	12	0	22.02	0.159	22.09	0.162	22.11	0.163
5	64QAM	12	7	22.01	0.159	22.10	0.162	22.16	0.164
5	64QAM	12	13	22.02	0.159	22.08	0.161	22.07	0.161
5	64QAM	25	0	21.97	0.157	22.11	0.163	22.02	0.159



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.90	0.245	23.91	0.246	24.03	0.253
3	QPSK	1	8	23.99	0.251	24.13	0.259	24.07	0.255
3	QPSK	1	14	23.79	0.239	23.98	0.250	23.98	0.250
3	QPSK	8	0	22.99	0.199	23.05	0.202	23.06	0.202
3	QPSK	8	4	23.05	0.202	23.13	0.206	23.15	0.207
3	QPSK	8	7	23.01	0.200	23.11	0.205	23.11	0.205
3	QPSK	15	0	23.01	0.200	23.07	0.203	23.01	0.200
3	16QAM	1	0	22.85	0.193	22.94	0.197	22.98	0.199
3	16QAM	1	8	23.07	0.203	23.07	0.203	22.81	0.191
3	16QAM	1	14	22.98	0.199	22.76	0.189	22.84	0.192
3	16QAM	8	0	22.77	0.189	22.78	0.190	22.87	0.194
3	16QAM	8	4	22.87	0.194	22.87	0.194	22.88	0.194
3	16QAM	8	7	23.09	0.204	23.17	0.207	23.21	0.209
3	16QAM	15	0	23.09	0.204	23.07	0.203	23.14	0.206
3	64QAM	1	0	22.00	0.158	22.09	0.162	22.07	0.161
3	64QAM	1	8	22.19	0.166	22.07	0.161	22.23	0.167
3	64QAM	1	14	22.00	0.158	22.07	0.161	21.90	0.155
3	64QAM	8	0	21.98	0.158	22.02	0.159	21.96	0.157
3	64QAM	8	4	22.10	0.162	22.08	0.161	22.12	0.163
3	64QAM	8	7	22.04	0.160	22.11	0.163	22.23	0.167
3	64QAM	15	0	22.00	0.158	22.08	0.161	21.99	0.158



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.65	0.232	23.86	0.243	23.87	0.244
1.4	QPSK	1	3	23.99	0.251	23.99	0.251	24.03	0.253
1.4	QPSK	1	5	23.85	0.243	23.94	0.248	23.96	0.249
1.4	QPSK	3	0	23.93	0.247	23.90	0.245	23.89	0.245
1.4	QPSK	3	1	23.89	0.245	23.99	0.251	24.04	0.254
1.4	QPSK	3	3	23.88	0.244	23.95	0.248	23.94	0.248
1.4	QPSK	6	0	22.77	0.189	22.86	0.193	22.86	0.193
1.4	16QAM	1	0	22.74	0.188	23.21	0.209	22.87	0.194
1.4	16QAM	1	3	22.87	0.194	22.95	0.197	22.99	0.199
1.4	16QAM	1	5	22.93	0.196	23.09	0.204	22.89	0.195
1.4	16QAM	3	0	22.96	0.198	23.00	0.200	22.91	0.195
1.4	16QAM	3	1	22.97	0.198	23.00	0.200	23.02	0.200
1.4	16QAM	3	3	22.96	0.198	23.08	0.203	22.97	0.198
1.4	16QAM	6	0	22.87	0.194	22.88	0.194	22.79	0.190
1.4	64QAM	1	0	21.89	0.155	21.83	0.152	21.97	0.157
1.4	64QAM	1	3	22.15	0.164	22.13	0.163	22.25	0.168
1.4	64QAM	1	5	22.06	0.161	22.02	0.159	21.86	0.153
1.4	64QAM	3	0	21.97	0.157	21.95	0.157	22.14	0.164
1.4	64QAM	3	1	21.88	0.154	22.03	0.160	22.00	0.158
1.4	64QAM	3	3	21.94	0.156	22.11	0.163	21.99	0.158
1.4	64QAM	6	0	21.93	0.156	21.94	0.156	22.01	0.159



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	20.68	0.117	20.69	0.117	20.50	0.112
10	QPSK	1	25	20.54	0.113	20.57	0.114	20.37	0.109
10	QPSK	1	49	20.46	0.111	20.58	0.114	20.26	0.106
10	QPSK	25	0	19.77	0.095	19.79	0.095	19.60	0.091
10	QPSK	25	12	19.53	0.090	19.55	0.090	19.60	0.091
10	QPSK	25	25	19.53	0.090	19.64	0.092	19.69	0.093
10	QPSK	50	0	19.59	0.091	19.47	0.089	19.61	0.091
10	16QAM	1	0	19.63	0.092	19.82	0.096	19.53	0.090
10	16QAM	1	25	19.86	0.097	19.89	0.097	19.57	0.091
10	16QAM	1	49	19.69	0.093	19.75	0.094	19.82	0.096
10	16QAM	25	0	19.78	0.095	19.79	0.095	19.61	0.091
10	16QAM	25	12	19.72	0.094	19.80	0.095	19.58	0.091
10	16QAM	25	25	19.75	0.094	19.68	0.093	19.71	0.094
10	16QAM	50	0	19.76	0.095	19.67	0.093	19.57	0.091
10	64QAM	1	0	18.72	0.074	18.82	0.076	18.70	0.074
10	64QAM	1	25	18.69	0.074	18.89	0.077	18.69	0.074
10	64QAM	1	49	18.58	0.072	18.80	0.076	18.71	0.074
10	64QAM	25	0	18.69	0.074	18.80	0.076	18.47	0.070
10	64QAM	25	12	18.68	0.074	18.85	0.077	18.56	0.072
10	64QAM	25	25	18.80	0.076	18.69	0.074	18.39	0.069
10	64QAM	50	0	18.76	0.075	18.72	0.074	18.58	0.072



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	20.63	0.116	20.59	0.115	20.57	0.114
5	QPSK	1	12	20.53	0.113	20.64	0.116	20.48	0.112
5	QPSK	1	24	20.53	0.113	20.48	0.112	20.48	0.112
5	QPSK	12	0	19.68	0.093	19.73	0.094	19.59	0.091
5	QPSK	12	7	19.75	0.094	19.76	0.095	19.68	0.093
5	QPSK	12	13	19.80	0.095	19.64	0.092	19.59	0.091
5	QPSK	25	0	19.71	0.094	19.67	0.093	19.59	0.091
5	16QAM	1	0	20.00	0.100	19.93	0.098	19.69	0.093
5	16QAM	1	12	19.70	0.093	19.92	0.098	19.68	0.093
5	16QAM	1	24	19.57	0.091	19.92	0.098	19.75	0.094
5	16QAM	12	0	19.66	0.092	19.75	0.094	19.74	0.094
5	16QAM	12	7	19.73	0.094	19.76	0.095	19.58	0.091
5	16QAM	12	13	19.73	0.094	19.64	0.092	19.69	0.093
5	16QAM	25	0	19.74	0.094	19.79	0.095	19.74	0.094
5	64QAM	1	0	18.81	0.076	18.69	0.074	18.80	0.076
5	64QAM	1	12	18.69	0.074	18.63	0.073	18.77	0.075
5	64QAM	1	24	18.83	0.076	18.67	0.074	18.61	0.073
5	64QAM	12	0	18.55	0.072	18.69	0.074	18.49	0.071
5	64QAM	12	7	18.59	0.072	18.75	0.075	18.53	0.071
5	64QAM	12	13	18.77	0.075	18.72	0.074	18.29	0.067
5	64QAM	25	0	18.65	0.073	18.72	0.074	18.33	0.068



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	20.32	0.108	20.63	0.116	20.48	0.112
3	QPSK	1	8	20.58	0.114	20.59	0.115	20.50	0.112
3	QPSK	1	14	20.59	0.115	20.57	0.114	20.31	0.107
3	QPSK	8	0	19.61	0.091	19.74	0.094	19.72	0.094
3	QPSK	8	4	19.75	0.094	19.81	0.096	19.78	0.095
3	QPSK	8	7	19.70	0.093	19.72	0.094	19.59	0.091
3	QPSK	15	0	19.68	0.093	19.74	0.094	19.73	0.094
3	16QAM	1	0	19.70	0.093	19.81	0.096	19.88	0.097
3	16QAM	1	8	19.63	0.092	19.89	0.097	19.73	0.094
3	16QAM	1	14	19.68	0.093	19.94	0.099	19.69	0.093
3	16QAM	8	0	19.64	0.092	19.73	0.094	19.47	0.089
3	16QAM	8	4	19.80	0.095	19.91	0.098	19.48	0.089
3	16QAM	8	7	19.72	0.094	19.78	0.095	19.52	0.090
3	16QAM	15	0	19.66	0.092	19.68	0.093	19.23	0.084
3	64QAM	1	0	18.61	0.073	18.49	0.071	18.70	0.074
3	64QAM	1	8	18.49	0.071	18.73	0.075	18.49	0.071
3	64QAM	1	14	18.51	0.071	18.69	0.074	18.50	0.071
3	64QAM	8	0	18.61	0.073	18.71	0.074	18.69	0.074
3	64QAM	8	4	18.83	0.076	18.67	0.074	18.61	0.073
3	64QAM	8	7	18.78	0.076	18.70	0.074	18.67	0.074
3	64QAM	15	0	18.67	0.074	18.77	0.075	18.57	0.072



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	20.53	0.113	20.60	0.115	20.64	0.116
1.4	QPSK	1	3	20.66	0.116	20.59	0.115	20.66	0.116
1.4	QPSK	1	5	20.55	0.114	20.49	0.112	20.50	0.112
1.4	QPSK	3	0	20.56	0.114	20.62	0.115	20.58	0.114
1.4	QPSK	3	1	20.62	0.115	20.49	0.112	20.59	0.115
1.4	QPSK	3	3	20.63	0.116	20.55	0.114	20.55	0.114
1.4	QPSK	6	0	19.66	0.092	19.65	0.092	19.64	0.092
1.4	16QAM	1	0	19.79	0.095	19.60	0.091	19.77	0.095
1.4	16QAM	1	3	19.59	0.091	19.83	0.096	19.72	0.094
1.4	16QAM	1	5	19.98	0.100	19.66	0.092	19.72	0.094
1.4	16QAM	3	0	19.51	0.089	19.49	0.089	19.63	0.092
1.4	16QAM	3	1	19.54	0.090	19.81	0.096	19.67	0.093
1.4	16QAM	3	3	19.62	0.092	19.73	0.094	19.61	0.091
1.4	16QAM	6	0	19.81	0.096	19.68	0.093	19.72	0.094
1.4	64QAM	1	0	18.34	0.068	18.51	0.071	18.53	0.071
1.4	64QAM	1	3	18.65	0.073	18.66	0.073	18.61	0.073
1.4	64QAM	1	5	18.60	0.072	18.59	0.072	18.47	0.070
1.4	64QAM	3	0	18.26	0.067	18.53	0.071	18.54	0.071
1.4	64QAM	3	1	18.54	0.071	18.48	0.070	18.49	0.071
1.4	64QAM	3	3	18.44	0.070	18.61	0.073	18.65	0.073
1.4	64QAM	6	0	18.65	0.073	18.77	0.075	18.66	0.073



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20850		21100		21350	
Frequency (MHz)				2510		2535		2560	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	24.01	0.252	24.02	0.252	23.94	0.248
20	QPSK	1	49	23.96	0.249	24.00	0.251	23.89	0.245
20	QPSK	1	99	23.91	0.246	23.86	0.243	23.91	0.246
20	QPSK	50	0	22.90	0.195	23.27	0.212	22.94	0.197
20	QPSK	50	24	22.96	0.198	22.93	0.196	22.83	0.192
20	QPSK	50	50	23.06	0.202	23.09	0.204	23.06	0.202
20	QPSK	100	0	23.01	0.200	23.03	0.201	23.00	0.200
20	16QAM	1	0	22.82	0.191	22.92	0.196	23.10	0.204
20	16QAM	1	49	22.97	0.198	22.83	0.192	23.11	0.205
20	16QAM	1	99	22.91	0.195	23.22	0.210	22.87	0.194
20	16QAM	50	0	22.76	0.189	22.86	0.193	22.79	0.190
20	16QAM	50	24	22.81	0.191	22.73	0.187	22.84	0.192
20	16QAM	50	50	22.89	0.195	22.94	0.197	22.77	0.189
20	16QAM	100	0	22.77	0.189	22.89	0.195	22.87	0.194
20	64QAM	1	0	22.37	0.173	22.21	0.166	21.94	0.156
20	64QAM	1	49	22.31	0.170	22.28	0.169	22.33	0.171
20	64QAM	1	99	22.29	0.169	22.34	0.171	22.25	0.168
20	64QAM	50	0	22.03	0.160	22.04	0.160	22.09	0.162
20	64QAM	50	24	22.08	0.161	22.09	0.162	22.09	0.162
20	64QAM	50	50	22.12	0.163	22.19	0.166	22.04	0.160
20	64QAM	100	0	22.05	0.160	22.02	0.159	22.14	0.164



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.84	0.242	23.93	0.247	23.93	0.247
15	QPSK	1	37	23.94	0.248	23.91	0.246	23.95	0.248
15	QPSK	1	74	23.88	0.244	23.95	0.248	23.95	0.248
15	QPSK	36	0	22.99	0.199	23.08	0.203	23.10	0.204
15	QPSK	36	20	23.07	0.203	23.14	0.206	23.09	0.204
15	QPSK	36	39	23.10	0.204	23.13	0.206	23.17	0.207
15	QPSK	75	0	23.16	0.207	23.09	0.204	23.11	0.205
15	16QAM	1	0	23.32	0.215	23.43	0.220	23.50	0.224
15	16QAM	1	37	23.14	0.206	23.25	0.211	23.23	0.210
15	16QAM	1	74	23.18	0.208	23.18	0.208	23.40	0.219
15	16QAM	36	0	22.77	0.189	22.88	0.194	22.90	0.195
15	16QAM	36	20	22.84	0.192	22.87	0.194	22.86	0.193
15	16QAM	36	39	22.90	0.195	22.88	0.194	22.77	0.189
15	16QAM	75	0	22.85	0.193	22.93	0.196	22.85	0.193
15	64QAM	1	0	22.27	0.169	22.24	0.167	22.12	0.163
15	64QAM	1	37	22.17	0.165	22.32	0.171	22.41	0.174
15	64QAM	1	74	22.16	0.164	22.28	0.169	22.34	0.171
15	64QAM	36	0	22.01	0.159	22.09	0.162	22.08	0.161
15	64QAM	36	20	22.12	0.163	22.11	0.163	22.18	0.165
15	64QAM	36	39	22.16	0.164	22.07	0.161	22.09	0.162
15	64QAM	75	0	22.01	0.159	22.11	0.163	22.06	0.161



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.83	0.242	23.70	0.234	23.73	0.236
10	QPSK	1	25	23.86	0.243	23.76	0.238	23.78	0.239
10	QPSK	1	49	23.79	0.239	23.76	0.238	23.78	0.239
10	QPSK	25	0	22.91	0.195	22.91	0.195	22.90	0.195
10	QPSK	25	12	22.87	0.194	22.99	0.199	23.04	0.201
10	QPSK	25	25	22.80	0.191	22.98	0.199	22.98	0.199
10	QPSK	50	0	22.89	0.195	23.01	0.200	23.00	0.200
10	16QAM	1	0	22.94	0.197	23.12	0.205	22.97	0.198
10	16QAM	1	25	22.93	0.196	22.95	0.197	23.00	0.200
10	16QAM	1	49	23.40	0.219	23.30	0.214	23.21	0.209
10	16QAM	25	0	22.83	0.192	22.71	0.187	22.79	0.190
10	16QAM	25	12	22.65	0.184	22.82	0.191	22.75	0.188
10	16QAM	25	25	22.70	0.186	22.73	0.187	22.65	0.184
10	16QAM	50	0	22.73	0.187	22.82	0.191	22.67	0.185
10	64QAM	1	0	22.27	0.169	22.23	0.167	22.21	0.166
10	64QAM	1	25	21.96	0.157	22.21	0.166	22.04	0.160
10	64QAM	1	49	22.07	0.161	22.31	0.170	22.12	0.163
10	64QAM	25	0	21.93	0.156	21.91	0.155	21.95	0.157
10	64QAM	25	12	21.95	0.157	22.06	0.161	21.99	0.158
10	64QAM	25	25	21.88	0.154	21.78	0.151	21.77	0.150
10	64QAM	50	0	21.82	0.152	21.88	0.154	21.80	0.151



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.87	0.244	23.78	0.239	23.68	0.233
5	QPSK	1	12	23.74	0.237	23.67	0.233	23.75	0.237
5	QPSK	1	24	23.68	0.233	23.74	0.237	23.78	0.239
5	QPSK	12	0	22.71	0.187	22.79	0.190	22.71	0.187
5	QPSK	12	7	22.78	0.190	22.93	0.196	22.85	0.193
5	QPSK	12	13	22.80	0.191	22.96	0.198	22.81	0.191
5	QPSK	25	0	22.81	0.191	22.82	0.191	22.77	0.189
5	16QAM	1	0	22.79	0.190	22.77	0.189	22.83	0.192
5	16QAM	1	12	22.84	0.192	23.06	0.202	22.96	0.198
5	16QAM	1	24	22.90	0.195	23.09	0.204	22.91	0.195
5	16QAM	12	0	22.81	0.191	22.87	0.194	22.78	0.190
5	16QAM	12	7	22.70	0.186	22.72	0.187	22.68	0.185
5	16QAM	12	13	22.70	0.186	22.76	0.189	22.89	0.195
5	16QAM	25	0	22.67	0.185	22.72	0.187	22.74	0.188
5	64QAM	1	0	22.03	0.160	22.08	0.161	22.04	0.160
5	64QAM	1	12	22.08	0.161	22.20	0.166	22.08	0.161
5	64QAM	1	24	22.12	0.163	22.22	0.167	22.18	0.165
5	64QAM	12	0	21.83	0.152	21.80	0.151	21.85	0.153
5	64QAM	12	7	21.92	0.156	21.97	0.157	21.76	0.150
5	64QAM	12	13	21.87	0.154	21.96	0.157	21.82	0.152
5	64QAM	25	0	21.82	0.152	21.81	0.152	21.86	0.153



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.57	0.072	18.73	0.075	18.62	0.073
10	QPSK	1	25	18.43	0.070	18.56	0.072	18.59	0.072
10	QPSK	1	49	18.53	0.071	18.54	0.071	18.53	0.071
10	QPSK	25	0	17.82	0.061	17.92	0.062	17.83	0.061
10	QPSK	25	12	17.79	0.060	17.73	0.059	17.52	0.056
10	QPSK	25	25	17.84	0.061	17.90	0.062	17.83	0.061
10	QPSK	50	0	17.85	0.061	17.87	0.061	17.78	0.060
10	16QAM	1	0	17.78	0.060	17.33	0.054	17.46	0.056
10	16QAM	1	25	17.53	0.057	17.48	0.056	17.62	0.058
10	16QAM	1	49	17.62	0.058	17.67	0.058	17.56	0.057
10	16QAM	25	0	17.51	0.056	17.53	0.057	17.47	0.056
10	16QAM	25	12	17.55	0.057	17.59	0.057	17.48	0.056
10	16QAM	25	25	17.60	0.058	17.61	0.058	17.55	0.057
10	16QAM	50	0	17.50	0.056	17.58	0.057	17.63	0.058
10	64QAM	1	0	16.65	0.046	16.77	0.048	17.11	0.051
10	64QAM	1	25	17.09	0.051	17.15	0.052	16.74	0.047
10	64QAM	1	49	17.11	0.051	16.79	0.048	16.72	0.047
10	64QAM	25	0	16.62	0.046	16.56	0.045	16.53	0.045
10	64QAM	25	12	16.67	0.046	16.70	0.047	16.62	0.046
10	64QAM	25	25	16.72	0.047	16.69	0.047	16.69	0.047
10	64QAM	50	0	16.64	0.046	16.57	0.045	16.68	0.047



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.32	0.068	18.48	0.070	18.43	0.070
5	QPSK	1	12	18.48	0.070	18.64	0.073	18.48	0.070
5	QPSK	1	24	18.44	0.070	18.63	0.073	18.49	0.071
5	QPSK	12	0	17.55	0.057	17.62	0.058	17.61	0.058
5	QPSK	12	7	17.66	0.058	17.68	0.059	17.65	0.058
5	QPSK	12	13	17.61	0.058	17.64	0.058	17.61	0.058
5	QPSK	25	0	17.57	0.057	17.69	0.059	17.65	0.058
5	16QAM	1	0	17.58	0.057	17.60	0.058	17.62	0.058
5	16QAM	1	12	17.75	0.060	17.70	0.059	17.71	0.059
5	16QAM	1	24	17.71	0.059	17.69	0.059	17.65	0.058
5	16QAM	12	0	17.45	0.056	17.42	0.055	17.45	0.056
5	16QAM	12	7	17.59	0.057	17.64	0.058	17.48	0.056
5	16QAM	12	13	17.54	0.057	17.51	0.056	17.56	0.057
5	16QAM	25	0	17.55	0.057	17.51	0.056	17.53	0.057
5	64QAM	1	0	16.63	0.046	16.64	0.046	16.69	0.047
5	64QAM	1	12	17.08	0.051	16.78	0.048	16.71	0.047
5	64QAM	1	24	17.06	0.051	16.75	0.047	16.80	0.048
5	64QAM	12	0	16.60	0.046	16.62	0.046	16.57	0.045
5	64QAM	12	7	16.70	0.047	16.58	0.045	16.64	0.046
5	64QAM	12	13	16.57	0.045	16.67	0.046	16.72	0.047
5	64QAM	25	0	16.72	0.047	16.68	0.047	16.65	0.046



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.40	0.069	18.49	0.071	18.34	0.068
3	QPSK	1	8	18.58	0.072	18.57	0.072	18.67	0.074
3	QPSK	1	14	18.52	0.071	18.63	0.073	18.58	0.072
3	QPSK	8	0	17.63	0.058	17.61	0.058	17.61	0.058
3	QPSK	8	4	17.66	0.058	17.69	0.059	17.70	0.059
3	QPSK	8	7	17.61	0.058	17.69	0.059	17.63	0.058
3	QPSK	15	0	17.60	0.058	17.68	0.059	17.54	0.057
3	16QAM	1	0	17.61	0.058	17.97	0.063	17.56	0.057
3	16QAM	1	8	17.81	0.060	17.79	0.060	17.74	0.059
3	16QAM	1	14	17.64	0.058	17.69	0.059	17.55	0.057
3	16QAM	8	0	17.61	0.058	17.50	0.056	17.53	0.057
3	16QAM	8	4	17.66	0.058	17.63	0.058	17.74	0.059
3	16QAM	8	7	17.50	0.056	17.53	0.057	17.59	0.057
3	16QAM	15	0	17.48	0.056	17.41	0.055	17.40	0.055
3	64QAM	1	0	16.64	0.046	16.98	0.050	16.97	0.050
3	64QAM	1	8	16.93	0.049	16.83	0.048	16.84	0.048
3	64QAM	1	14	16.86	0.049	16.71	0.047	16.82	0.048
3	64QAM	8	0	16.53	0.045	16.61	0.046	16.52	0.045
3	64QAM	8	4	16.62	0.046	16.66	0.046	16.65	0.046
3	64QAM	8	7	16.61	0.046	16.53	0.045	16.68	0.047
3	64QAM	15	0	16.60	0.046	16.62	0.046	16.54	0.045



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.43	0.070	18.47	0.070	18.40	0.069
1.4	QPSK	1	3	18.54	0.071	18.53	0.071	18.55	0.072
1.4	QPSK	1	5	18.43	0.070	18.48	0.070	18.44	0.070
1.4	QPSK	3	0	18.38	0.069	18.51	0.071	18.49	0.071
1.4	QPSK	3	1	18.59	0.072	18.59	0.072	18.60	0.072
1.4	QPSK	3	3	18.54	0.071	18.56	0.072	18.52	0.071
1.4	QPSK	6	0	17.60	0.058	17.57	0.057	17.55	0.057
1.4	16QAM	1	0	17.64	0.058	17.58	0.057	17.43	0.055
1.4	16QAM	1	3	17.45	0.056	17.88	0.061	17.55	0.057
1.4	16QAM	1	5	17.57	0.057	17.58	0.057	17.57	0.057
1.4	16QAM	3	0	17.41	0.055	17.44	0.055	17.45	0.056
1.4	16QAM	3	1	17.57	0.057	17.65	0.058	17.49	0.056
1.4	16QAM	3	3	17.40	0.055	17.54	0.057	17.54	0.057
1.4	16QAM	6	0	17.33	0.054	17.53	0.057	17.43	0.055
1.4	64QAM	1	0	16.48	0.044	16.63	0.046	16.47	0.044
1.4	64QAM	1	3	16.60	0.046	16.53	0.045	16.58	0.045
1.4	64QAM	1	5	16.76	0.047	16.79	0.048	16.75	0.047
1.4	64QAM	3	0	16.66	0.046	16.67	0.046	16.50	0.045
1.4	64QAM	3	1	16.64	0.046	16.88	0.049	16.73	0.047
1.4	64QAM	3	3	16.66	0.046	16.50	0.045	16.66	0.046
1.4	64QAM	6	0	16.62	0.046	16.63	0.046	16.50	0.045



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		23230		/	
Frequency (MHz)				/		782		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	18.50	0.071	/	/
10	QPSK	1	25	/	/	18.12	0.065	/	/
10	QPSK	1	49	/	/	18.22	0.066	/	/
10	QPSK	25	0	/	/	17.59	0.057	/	/
10	QPSK	25	12	/	/	17.40	0.055	/	/
10	QPSK	25	25	/	/	17.34	0.054	/	/
10	QPSK	50	0	/	/	17.37	0.055	/	/
10	16QAM	1	0	/	/	17.49	0.056	/	/
10	16QAM	1	25	/	/	17.41	0.055	/	/
10	16QAM	1	49	/	/	17.71	0.059	/	/
10	16QAM	25	0	/	/	16.52	0.045	/	/
10	16QAM	25	12	/	/	16.47	0.044	/	/
10	16QAM	25	25	/	/	16.60	0.046	/	/
10	16QAM	50	0	/	/	16.37	0.043	/	/
10	64QAM	1	0	/	/	16.67	0.046	/	/
10	64QAM	1	25	/	/	16.49	0.045	/	/
10	64QAM	1	49	/	/	16.46	0.044	/	/
10	64QAM	25	0	/	/	16.39	0.044	/	/
10	64QAM	25	12	/	/	16.32	0.043	/	/
10	64QAM	25	25	/	/	16.38	0.043	/	/
10	64QAM	50	0	/	/	16.45	0.044	/	/



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23205		23230		23255	
Frequency (MHz)				779.5		782		784.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.24	0.067	18.36	0.069	18.36	0.069
5	QPSK	1	12	18.32	0.068	18.05	0.064	18.25	0.067
5	QPSK	1	24	18.08	0.064	18.26	0.067	18.29	0.067
5	QPSK	12	0	17.30	0.054	17.38	0.055	17.47	0.056
5	QPSK	12	7	17.37	0.055	17.36	0.054	17.45	0.056
5	QPSK	12	13	17.29	0.054	17.45	0.056	17.43	0.055
5	QPSK	25	0	17.36	0.054	17.33	0.054	17.43	0.055
5	16QAM	1	0	17.43	0.055	17.79	0.060	17.58	0.057
5	16QAM	1	12	17.49	0.056	17.64	0.058	17.52	0.056
5	16QAM	1	24	17.59	0.057	17.41	0.055	17.42	0.055
5	16QAM	12	0	17.02	0.050	16.99	0.050	16.92	0.049
5	16QAM	12	7	17.03	0.050	16.92	0.049	17.04	0.051
5	16QAM	12	13	17.00	0.050	16.99	0.050	17.03	0.050
5	16QAM	25	0	16.37	0.043	16.41	0.044	16.43	0.044
5	64QAM	1	0	16.63	0.046	16.61	0.046	16.53	0.045
5	64QAM	1	12	16.59	0.046	16.49	0.045	16.62	0.046
5	64QAM	1	24	16.60	0.046	16.59	0.046	16.59	0.046
5	64QAM	12	0	16.42	0.044	16.48	0.044	16.55	0.045
5	64QAM	12	7	16.59	0.046	16.38	0.043	16.48	0.044
5	64QAM	12	13	16.38	0.043	16.49	0.045	16.39	0.044
5	64QAM	25	0	16.29	0.043	16.40	0.044	16.40	0.044



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.18	0.066	18.31	0.068	17.96	0.063
10	QPSK	1	25	18.17	0.066	18.08	0.064	18.17	0.066
10	QPSK	1	49	18.14	0.065	17.98	0.063	18.14	0.065
10	QPSK	25	0	17.40	0.055	17.48	0.056	17.28	0.053
10	QPSK	25	12	17.32	0.054	17.31	0.054	17.37	0.055
10	QPSK	25	25	17.38	0.055	17.25	0.053	17.33	0.054
10	QPSK	50	0	17.36	0.054	17.38	0.055	17.38	0.055
10	16QAM	1	0	17.26	0.053	17.34	0.054	17.28	0.053
10	16QAM	1	25	17.38	0.055	17.38	0.055	17.38	0.055
10	16QAM	1	49	17.62	0.058	17.64	0.058	17.30	0.054
10	16QAM	25	0	17.38	0.055	17.08	0.051	17.42	0.055
10	16QAM	25	12	16.98	0.050	17.29	0.054	17.13	0.052
10	16QAM	25	25	17.12	0.052	17.29	0.054	17.00	0.050
10	16QAM	50	0	17.09	0.051	17.12	0.052	17.15	0.052
10	64QAM	1	0	16.79	0.048	16.48	0.044	16.74	0.047
10	64QAM	1	25	16.77	0.048	16.44	0.044	16.44	0.044
10	64QAM	1	49	16.67	0.046	16.40	0.044	16.48	0.044
10	64QAM	25	0	16.44	0.044	16.44	0.044	16.44	0.044
10	64QAM	25	12	16.32	0.043	16.40	0.044	16.36	0.043
10	64QAM	25	25	16.44	0.044	16.14	0.041	16.48	0.044
10	64QAM	50	0	16.18	0.041	16.35	0.043	16.19	0.042



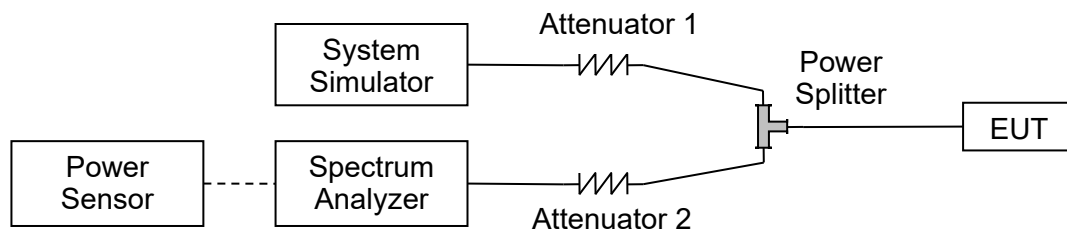
LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23755		23790		23825	
Frequency (MHz)				706.5		710		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	17.72	0.059	17.89	0.062	17.91	0.062
5	QPSK	1	12	18.16	0.065	18.20	0.066	18.20	0.066
5	QPSK	1	24	18.04	0.064	17.98	0.063	18.00	0.063
5	QPSK	12	0	17.15	0.052	17.12	0.052	17.16	0.052
5	QPSK	12	7	17.26	0.053	17.30	0.054	17.31	0.054
5	QPSK	12	13	17.23	0.053	17.25	0.053	17.22	0.053
5	QPSK	25	0	17.24	0.053	17.13	0.052	17.17	0.052
5	16QAM	1	0	17.15	0.052	17.08	0.051	17.28	0.053
5	16QAM	1	12	17.20	0.052	17.12	0.052	17.18	0.052
5	16QAM	1	24	17.18	0.052	17.09	0.051	17.17	0.052
5	16QAM	12	0	17.11	0.051	17.16	0.052	17.14	0.052
5	16QAM	12	7	17.26	0.053	17.16	0.052	17.28	0.053
5	16QAM	12	13	17.22	0.053	17.21	0.053	17.21	0.053
5	16QAM	25	0	17.23	0.053	17.17	0.052	17.21	0.053
5	64QAM	1	0	16.28	0.042	16.39	0.044	16.22	0.042
5	64QAM	1	12	16.27	0.042	16.38	0.043	16.23	0.042
5	64QAM	1	24	16.28	0.042	16.28	0.042	16.28	0.042
5	64QAM	12	0	16.38	0.043	16.15	0.041	16.16	0.041
5	64QAM	12	7	16.25	0.042	16.18	0.041	16.32	0.043
5	64QAM	12	13	16.23	0.042	16.25	0.042	16.18	0.041
5	64QAM	25	0	16.19	0.042	16.23	0.042	16.24	0.042

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	1.27
	Low	16QAM	1.10	1.28
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.10	1.27
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.26
	High	16QAM	1.10	1.27
	High	64QAM	1.10	1.29
3	Low	QPSK	2.68	2.96
	Low	16QAM	2.69	2.98
	Low	64QAM	2.70	2.98
	Mid	QPSK	2.69	2.96
	Mid	16QAM	2.69	3.02
	Mid	64QAM	2.69	2.94
	High	QPSK	2.69	2.98
	High	16QAM	2.69	2.98
	High	64QAM	2.70	2.97
5	Low	QPSK	4.50	4.92
	Low	16QAM	4.51	4.90
	Low	64QAM	4.50	4.90
	Mid	QPSK	4.50	4.93
	Mid	16QAM	4.50	4.92
	Mid	64QAM	4.50	4.97
	High	QPSK	4.50	4.92
	High	16QAM	4.50	4.91
	High	64QAM	4.49	4.93
10	Low	QPSK	8.98	9.77
	Low	16QAM	8.97	9.70
	Low	64QAM	8.99	9.76
	Mid	QPSK	8.97	9.71
	Mid	16QAM	8.96	9.67
	Mid	64QAM	8.98	9.75
	High	QPSK	9.01	9.76
	High	16QAM	8.97	9.69
	High	64QAM	8.97	9.75



15	Low	QPSK	13.46	14.54
	Low	16QAM	13.47	14.64
	Low	64QAM	13.47	14.6
	Mid	QPSK	13.48	14.61
	Mid	16QAM	13.47	14.58
	Mid	64QAM	13.47	14.57
	High	QPSK	13.48	14.56
	High	16QAM	13.48	14.52
	High	64QAM	13.48	14.68
20	Low	QPSK	17.94	19.28
	Low	16QAM	17.95	19.42
	Low	64QAM	17.98	19.34
	Mid	QPSK	17.94	19.38
	Mid	16QAM	17.96	19.41
	Mid	64QAM	17.96	19.33
	High	QPSK	18.00	19.3
	High	16QAM	18.02	19.34
	High	64QAM	17.97	19.36



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	1.28
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.10	1.32
	Mid	16QAM	1.11	1.49
	Mid	64QAM	1.10	1.29
	High	QPSK	1.09	1.27
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.27
3	Low	QPSK	2.69	2.95
	Low	16QAM	2.69	2.99
	Low	64QAM	2.70	2.99
	Mid	QPSK	2.70	3.05
	Mid	16QAM	2.70	2.99
	Mid	64QAM	2.71	3.29
	High	QPSK	2.68	2.97
	High	16QAM	2.69	2.99
	High	64QAM	2.69	2.98
5	Low	QPSK	4.50	4.91
	Low	16QAM	4.51	4.95
	Low	64QAM	4.50	4.95
	Mid	QPSK	4.52	5.06
	Mid	16QAM	4.51	4.92
	Mid	64QAM	4.51	6.23
	High	QPSK	4.50	4.92
	High	16QAM	4.50	4.90
	High	64QAM	4.49	4.92
10	Low	QPSK	9.02	9.78
	Low	16QAM	8.97	9.66
	Low	64QAM	8.97	9.73
	Mid	QPSK	9.03	10.16
	Mid	16QAM	9.00	10.09
	Mid	64QAM	9.01	9.78
	High	QPSK	9.00	9.72
	High	16QAM	8.95	9.61
	High	64QAM	8.97	9.68



15	Low	QPSK	13.47	16.32
	Low	16QAM	13.46	14.56
	Low	64QAM	13.47	14.53
	Mid	QPSK	13.58	18.51
	Mid	16QAM	13.54	21.74
	Mid	64QAM	13.53	15.2
	High	QPSK	13.48	14.93
	High	16QAM	13.47	14.54
	High	64QAM	13.45	14.63
20	Low	QPSK	17.95	21.27
	Low	16QAM	17.95	19.31
	Low	64QAM	17.91	19.42
	Mid	QPSK	18.11	29.81
	Mid	16QAM	18.08	25.72
	Mid	64QAM	18.09	24.79
	High	QPSK	17.98	19.22
	High	16QAM	17.99	19.32
	High	64QAM	17.98	20.03



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.27
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.10	1.27
	Mid	16QAM	1.10	1.27
	Mid	64QAM	1.10	1.29
	High	QPSK	1.10	1.27
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.29
3	Low	QPSK	2.69	2.99
	Low	16QAM	2.69	2.99
	Low	64QAM	2.70	2.98
	Mid	QPSK	2.69	2.98
	Mid	16QAM	2.69	2.99
	Mid	64QAM	2.70	2.97
	High	QPSK	2.69	2.99
	High	16QAM	2.69	2.97
	High	64QAM	2.70	2.99
5	Low	QPSK	4.49	4.93
	Low	16QAM	4.50	4.91
	Low	64QAM	4.50	4.91
	Mid	QPSK	4.50	4.95
	Mid	16QAM	4.50	4.91
	Mid	64QAM	4.50	4.92
	High	QPSK	4.50	4.94
	High	16QAM	4.51	4.89
	High	64QAM	4.50	4.90
10	Low	QPSK	9.00	9.71
	Low	16QAM	8.95	9.71
	Low	64QAM	8.97	9.74
	Mid	QPSK	9.01	9.77
	Mid	16QAM	8.98	9.68
	Mid	64QAM	9.00	9.70
	High	QPSK	8.99	9.71
	High	16QAM	8.95	9.70
	High	64QAM	8.89	9.45



LTE Band 7				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.94
	Low	16QAM	4.50	4.89
	Low	64QAM	4.50	4.93
	Mid	QPSK	4.50	4.92
	Mid	16QAM	4.51	4.93
	Mid	64QAM	4.50	4.91
	High	QPSK	4.50	4.95
	High	16QAM	4.51	5.14
	High	64QAM	4.51	4.94
10	Low	QPSK	9.01	9.76
	Low	16QAM	8.97	9.69
	Low	64QAM	8.97	9.74
	Mid	QPSK	9.01	9.72
	Mid	16QAM	8.97	9.70
	Mid	64QAM	8.99	9.71
	High	QPSK	9.00	9.75
	High	16QAM	8.97	9.80
	High	64QAM	9.00	9.76
15	Low	QPSK	13.46	14.61
	Low	16QAM	13.46	14.47
	Low	64QAM	13.44	14.46
	Mid	QPSK	13.49	14.60
	Mid	16QAM	13.47	14.61
	Mid	64QAM	13.47	14.64
	High	QPSK	13.49	14.64
	High	16QAM	13.46	14.50
	High	64QAM	13.45	14.51
20	Low	QPSK	17.87	19.29
	Low	16QAM	17.90	19.33
	Low	64QAM	17.90	19.18
	Mid	QPSK	17.98	20.64
	Mid	16QAM	18.00	19.36
	Mid	64QAM	17.99	19.73
	High	QPSK	17.87	19.3
	High	16QAM	17.92	19.26
	High	64QAM	17.92	19.32



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.28
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.10	1.27
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.29
	High	QPSK	1.09	1.26
	High	16QAM	1.10	1.28
	High	64QAM	1.10	1.29
3	Low	QPSK	2.69	2.96
	Low	16QAM	2.69	2.99
	Low	64QAM	2.70	2.98
	Mid	QPSK	2.69	2.97
	Mid	16QAM	2.69	2.97
	Mid	64QAM	2.70	2.97
	High	QPSK	2.69	2.95
	High	16QAM	2.69	2.99
	High	64QAM	2.70	2.98
5	Low	QPSK	4.50	4.93
	Low	16QAM	4.51	4.96
	Low	64QAM	4.50	5.12
	Mid	QPSK	4.49	4.92
	Mid	16QAM	4.49	4.94
	Mid	64QAM	4.49	4.88
	High	QPSK	4.50	5.11
	High	16QAM	4.50	4.93
	High	64QAM	4.50	4.91
10	Low	QPSK	8.98	9.73
	Low	16QAM	8.95	9.68
	Low	64QAM	8.97	9.68
	Mid	QPSK	8.96	9.64
	Mid	16QAM	8.92	9.67
	Mid	64QAM	8.94	9.71
	High	QPSK	9.02	9.72
	High	16QAM	8.97	9.72
	High	64QAM	8.98	9.76



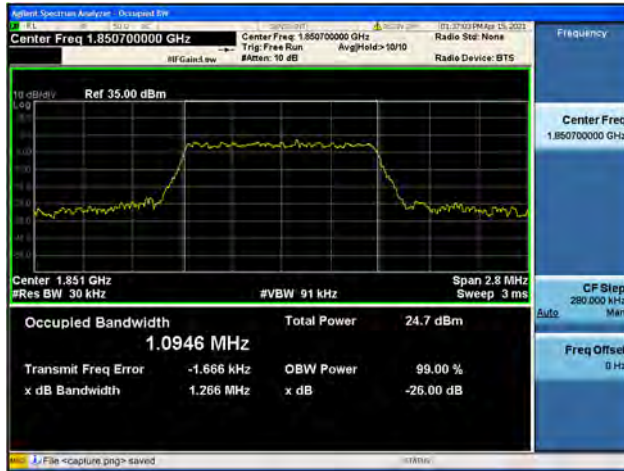
LTE Band 13				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.93
	Low	16QAM	4.50	4.89
	Low	64QAM	4.51	4.90
	Mid	QPSK	4.51	4.93
	Mid	16QAM	4.51	4.95
	Mid	64QAM	4.50	4.96
	High	QPSK	4.49	4.89
	High	16QAM	4.49	4.91
	High	64QAM	4.49	4.89
10	Low	QPSK	9.01	9.75
	Low	16QAM	8.98	9.88
	Low	64QAM	8.98	9.68
	Mid	QPSK	8.98	10.74
	Mid	16QAM	8.95	9.62
	Mid	64QAM	9.00	10.05
	High	QPSK	9.02	9.96
	High	16QAM	8.98	11.59
	High	64QAM	8.98	9.72



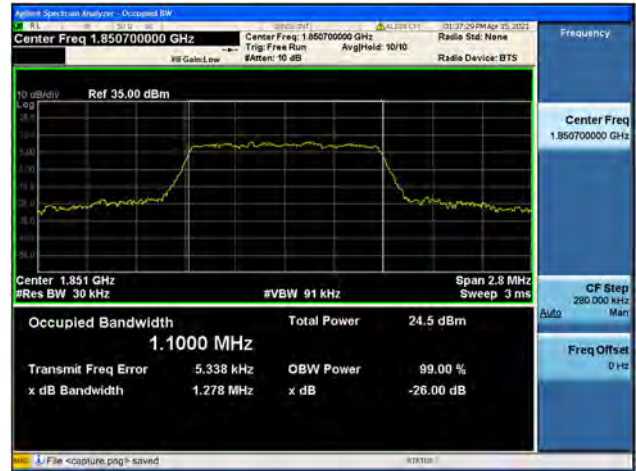
LTE Band 17				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.93
	Low	16QAM	4.48	4.92
	Low	64QAM	4.50	5.02
	Mid	QPSK	4.50	4.91
	Mid	16QAM	4.50	4.89
	Mid	64QAM	4.50	4.87
	High	QPSK	4.50	5.07
	High	16QAM	4.51	4.93
	High	64QAM	4.51	4.92
10	Low	QPSK	8.96	9.71
	Low	16QAM	8.94	9.7
	Low	64QAM	8.96	9.71
	Mid	QPSK	8.99	9.72
	Mid	16QAM	8.96	9.7
	Mid	64QAM	8.98	9.74
	High	QPSK	9.01	9.73
	High	16QAM	8.97	9.73
	High	64QAM	8.99	9.76



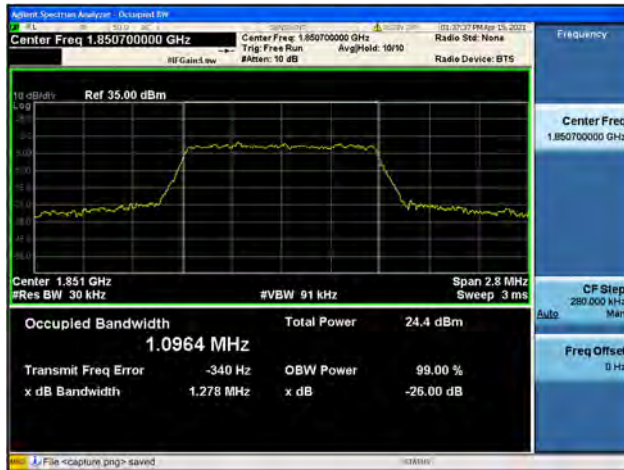
Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM

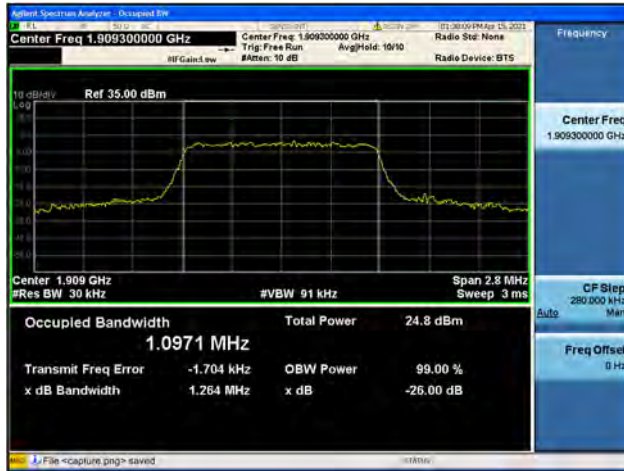


Band2 / 1.4MHz / Mid CH / 64QAM

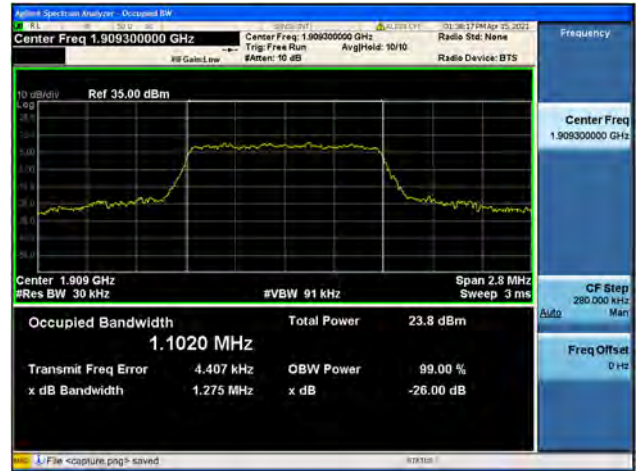




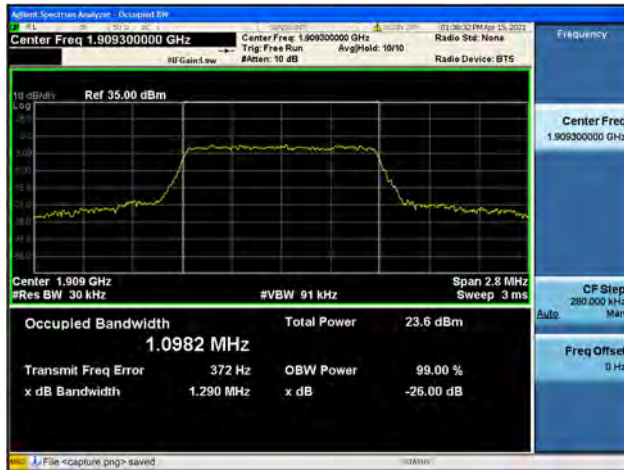
Band2 / 1.4MHz / High CH / QPSK



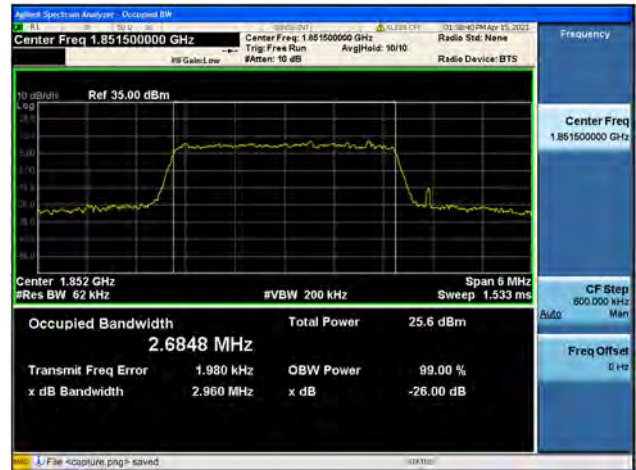
Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM

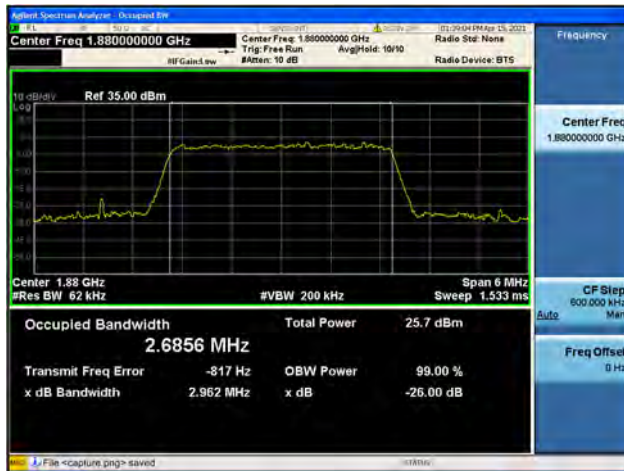


Band2 / 3MHz / Low CH / 64QAM

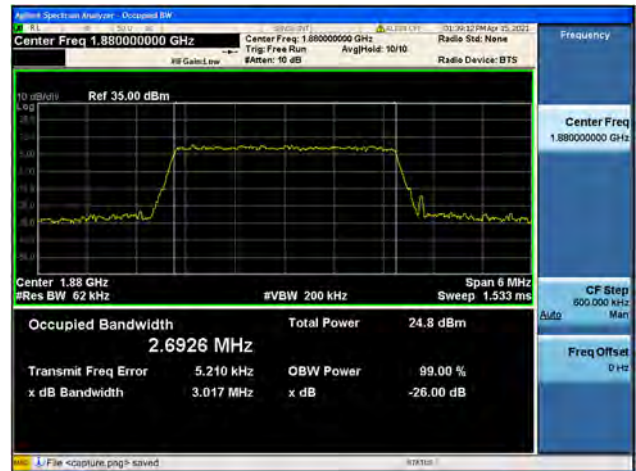




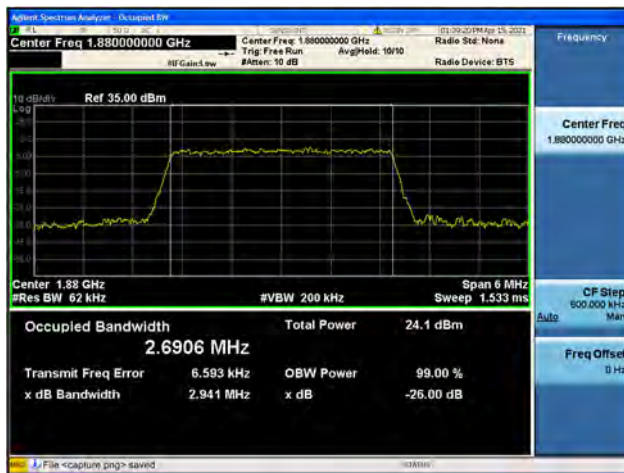
Band2 / 3MHz / Mid CH / QPSK



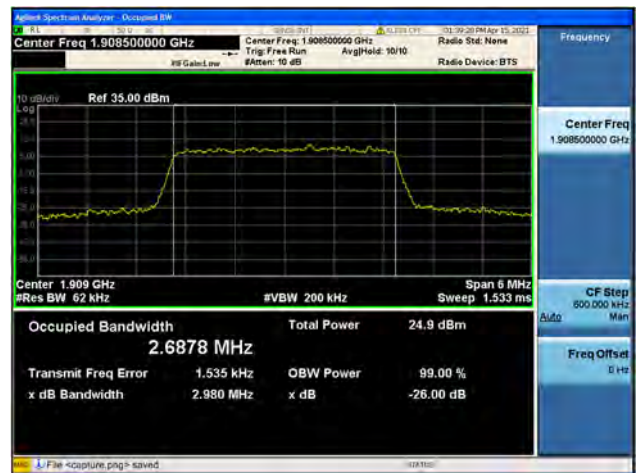
Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM

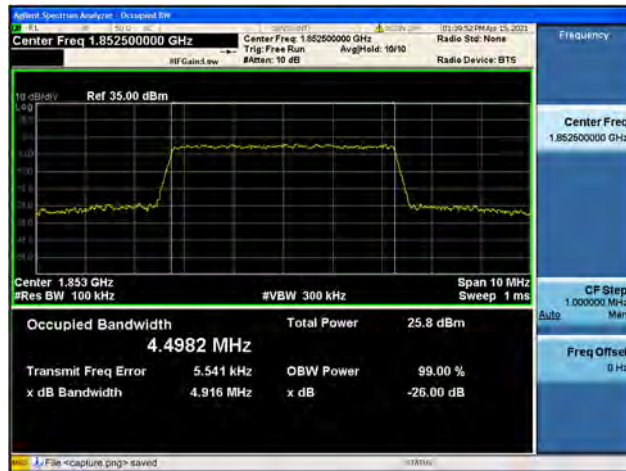


Band2 / 3MHz / High CH / 64QAM





Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



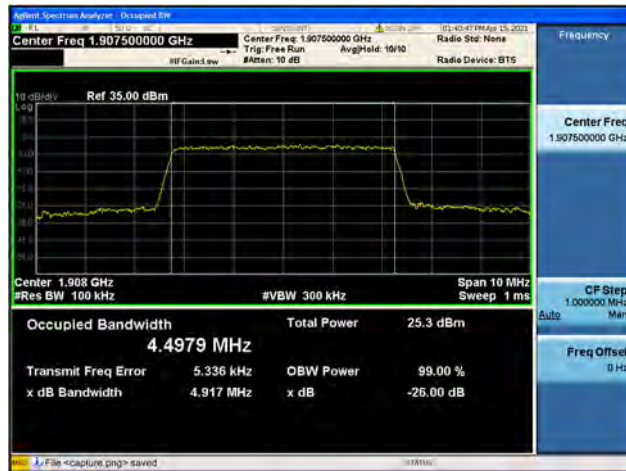
Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / Mid CH / 64QAM



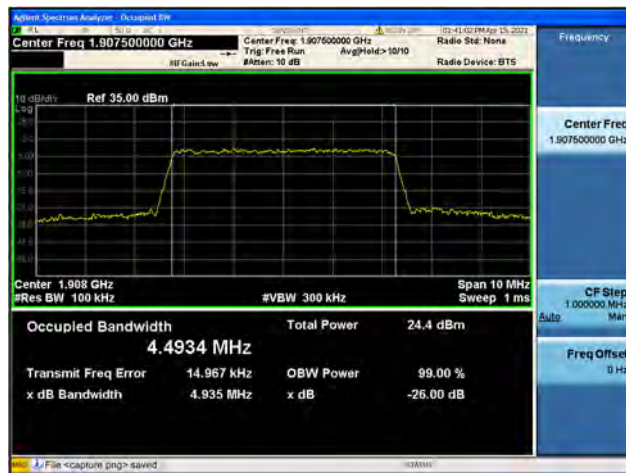
Band2 / 5MHz / High CH / QPSK



Band2 / 5MHz / High CH / 16QAM



Band2 / 5MHz / High CH / 64QAM



Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM

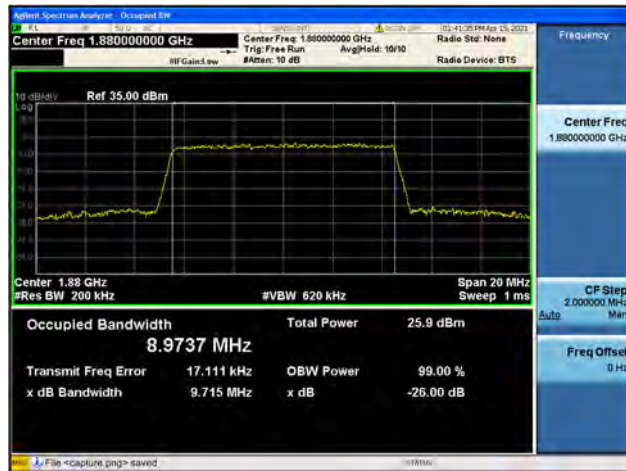


Band2 / 10MHz / Low CH / 64QAM

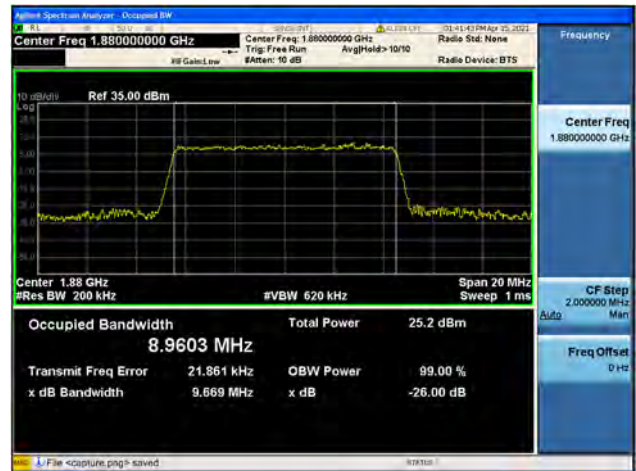




Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / Mid CH / 64QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM

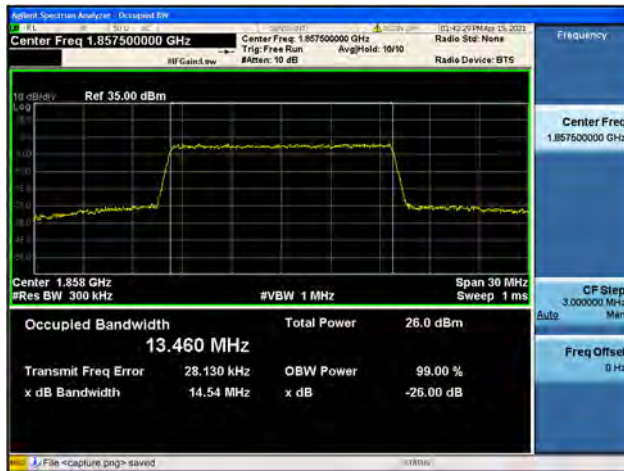


Band2 / 10MHz / High CH / 64QAM

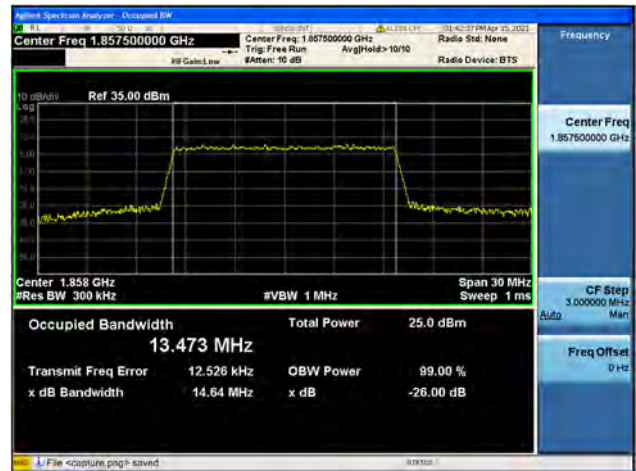




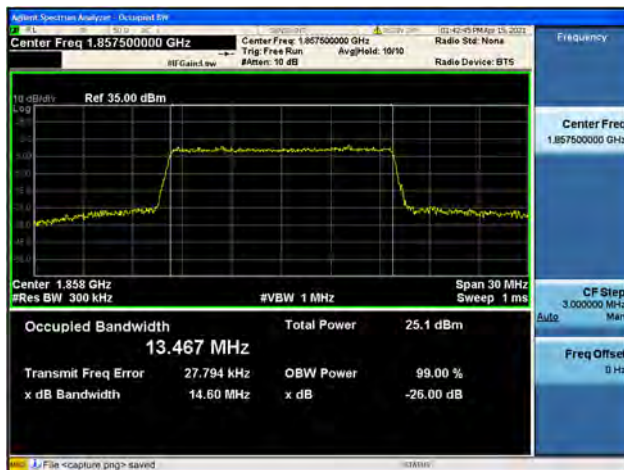
Band2 / 15MHz / Low CH / QPSK



Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Low CH / 64QAM



Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

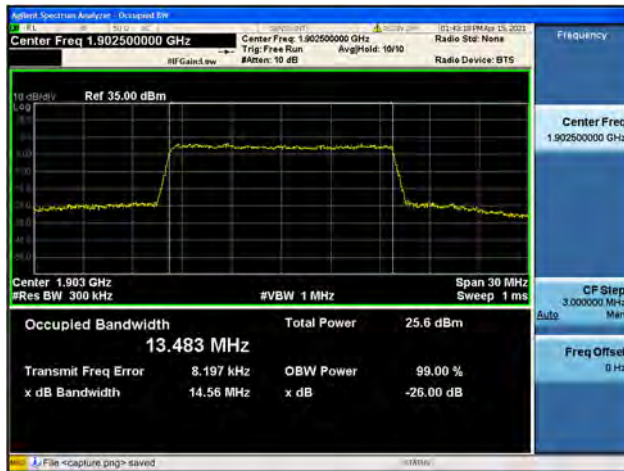


Band2 / 15MHz / Mid CH / 64QAM

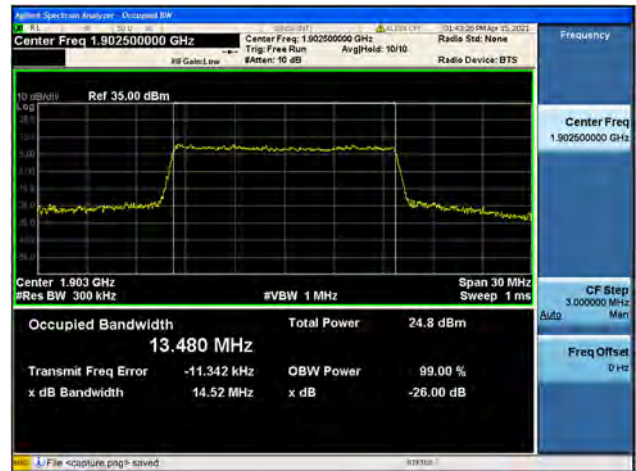




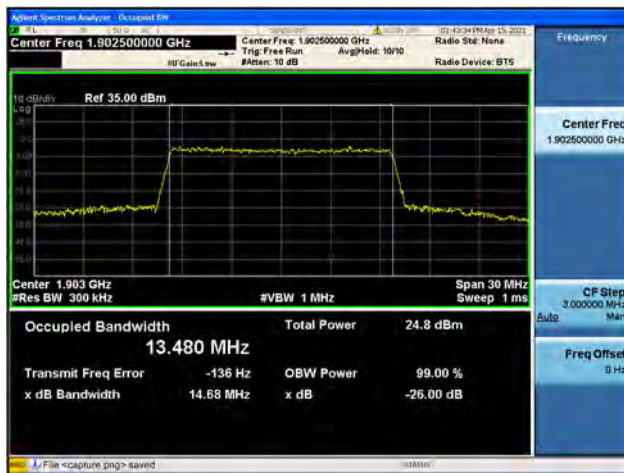
Band2 / 15MHz / High CH / QPSK



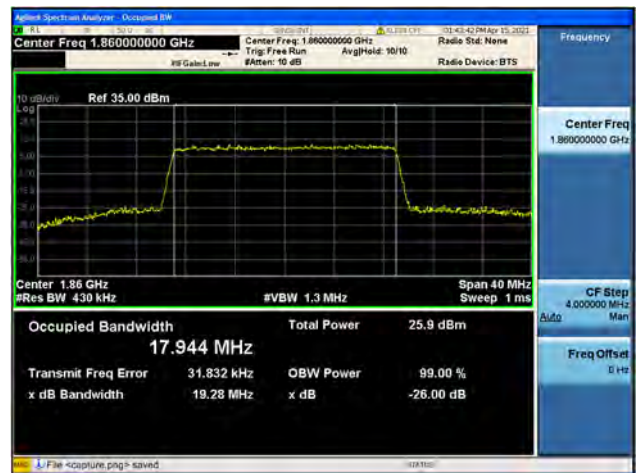
Band2 / 15MHz / High CH / 16QAM



Band2 / 15MHz / High CH / 64QAM



Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM

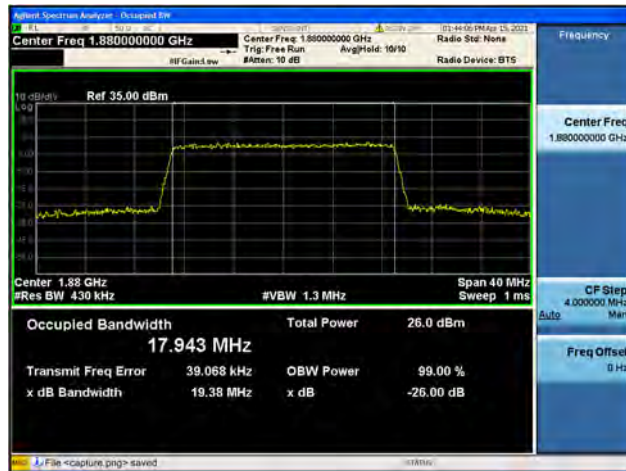


Band2 / 20MHz / Low CH / 64QAM

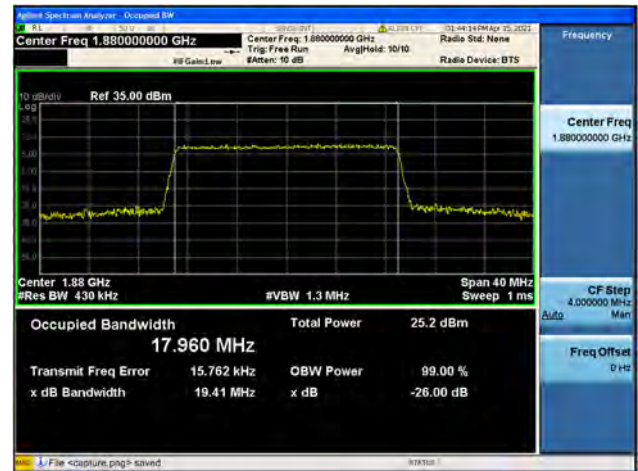




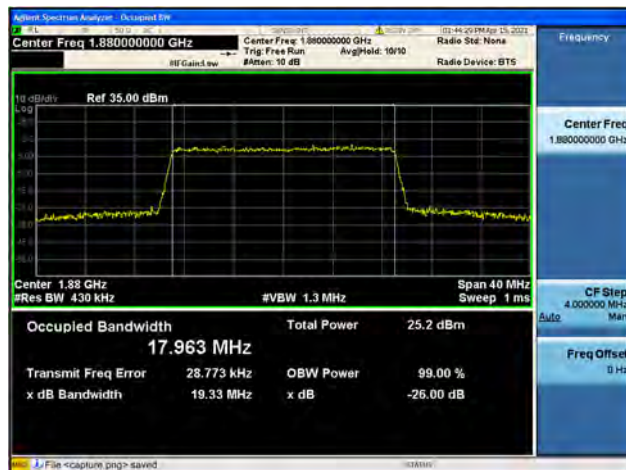
Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / Mid CH / 64QAM



Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM

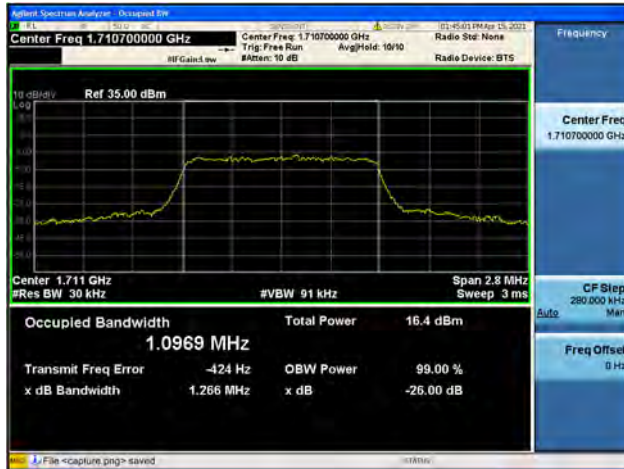


Band2 / 20MHz / High CH / 64QAM

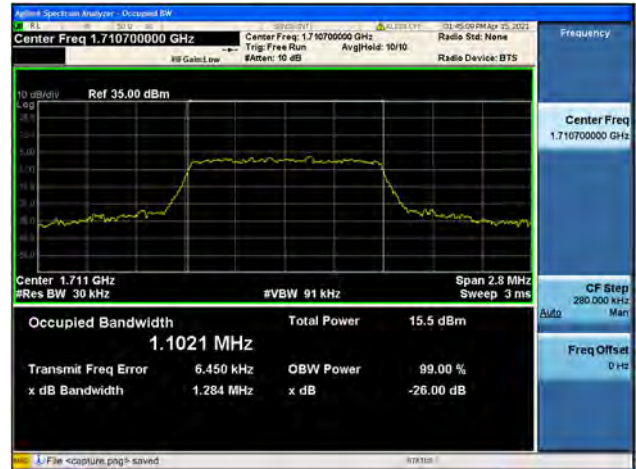




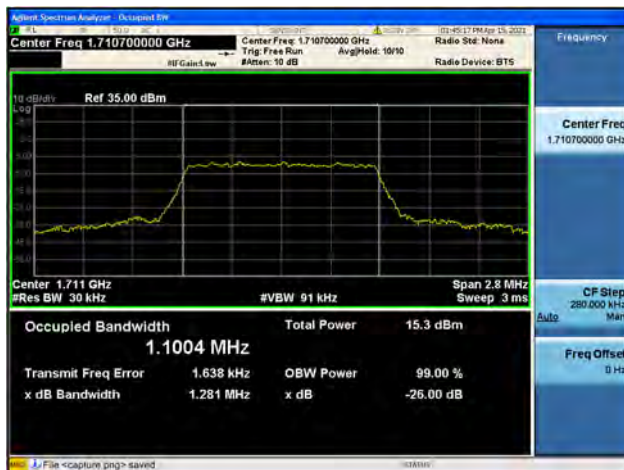
Band4 / 1.4MHz / Low CH / QPSK



Band4 / 1.4MHz / Low CH / 16QAM



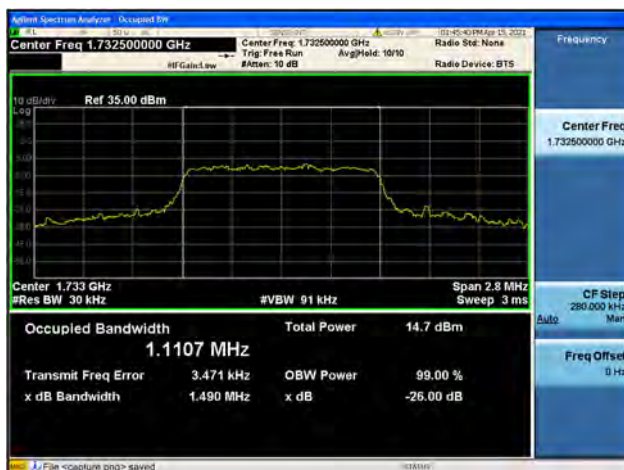
Band4 / 1.4MHz / Low CH / 64QAM



Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM

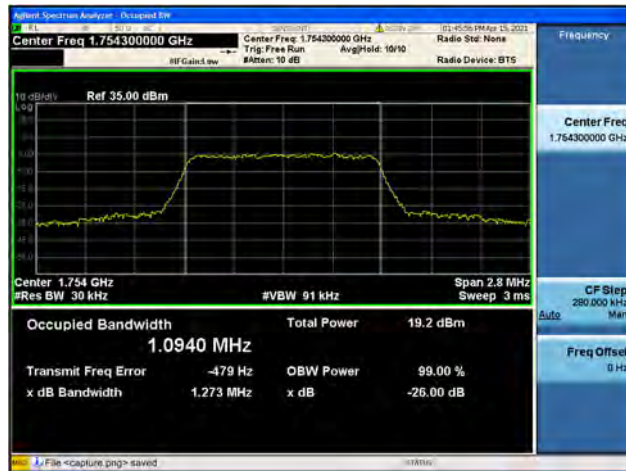


Band4 / 1.4MHz / Mid CH / 64QAM

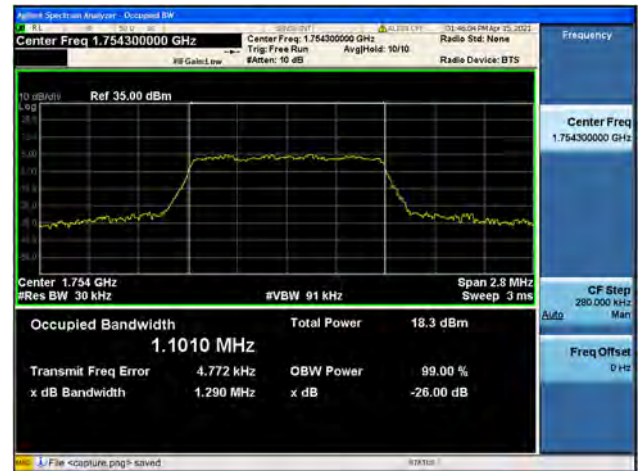




Band4 / 1.4MHz / High CH / QPSK



Band4 / 1.4MHz / High CH / 16QAM



Band4 / 1.4MHz / High CH / 64QAM



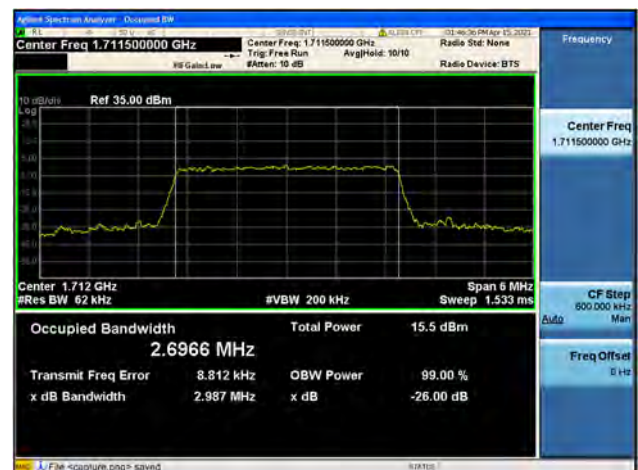
Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM

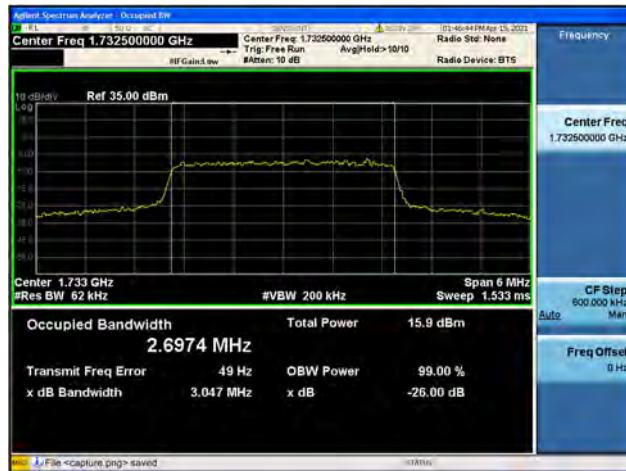


Band4 / 3MHz / Low CH / 64QAM

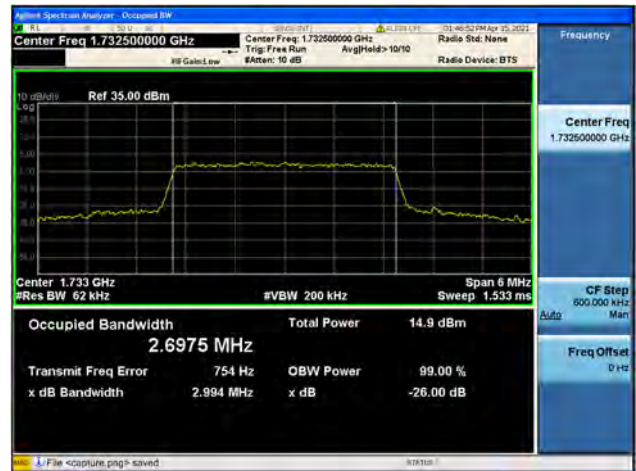




Band4 / 3MHz / Mid CH / QPSK



Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / Mid CH / 64QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM

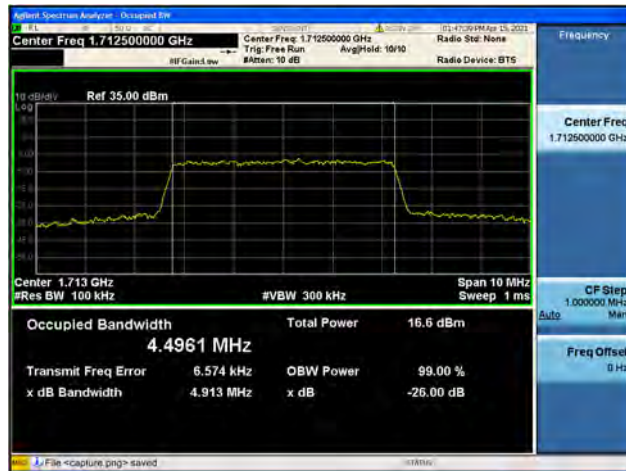


Band4 / 3MHz / High CH / 64QAM

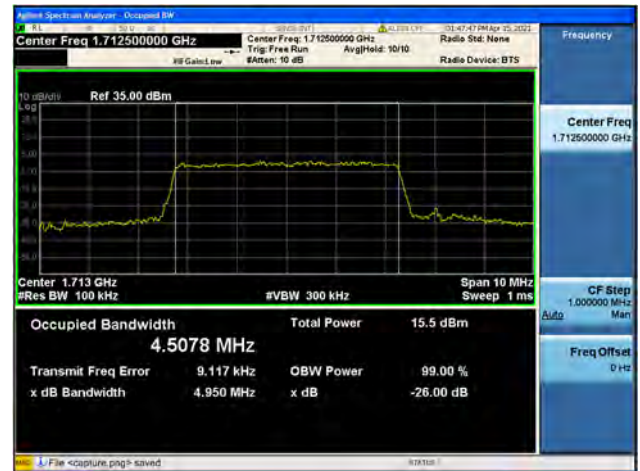




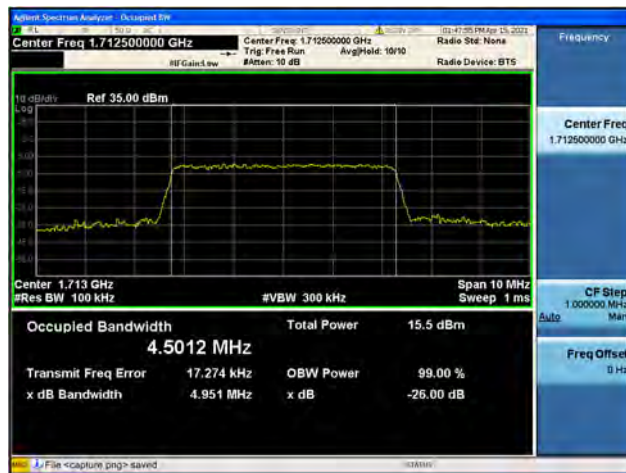
Band4 / 5MHz / Low CH / QPSK



Band4 / 5MHz / Low CH / 16QAM



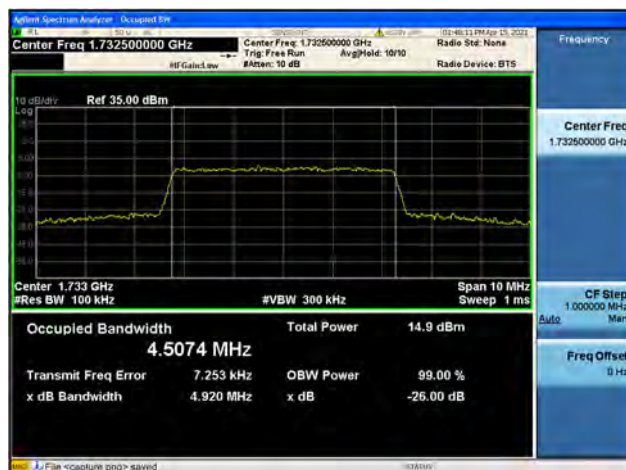
Band4 / 5MHz / Low CH / 64QAM



Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM

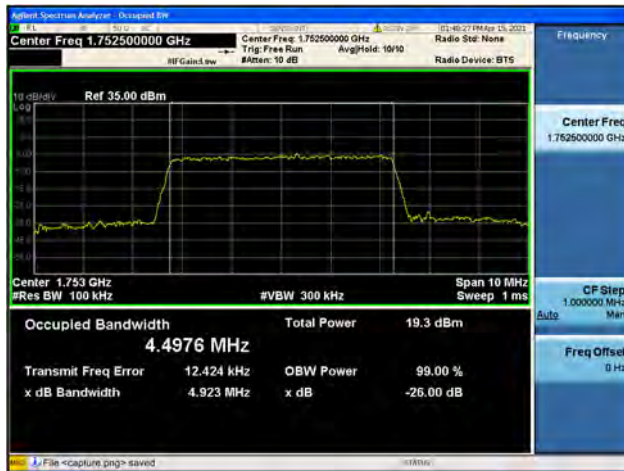


Band4 / 5MHz / Mid CH / 64QAM

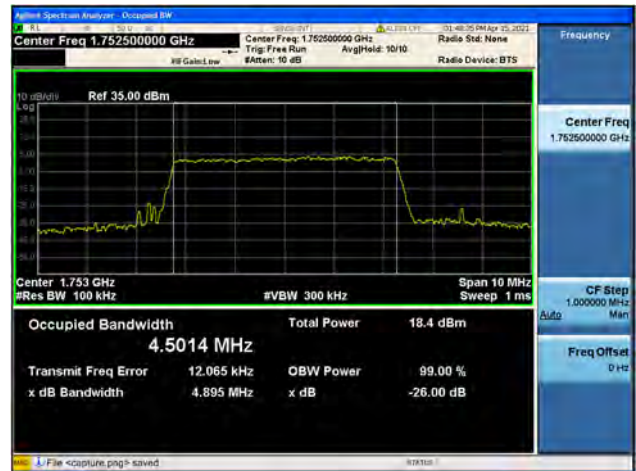




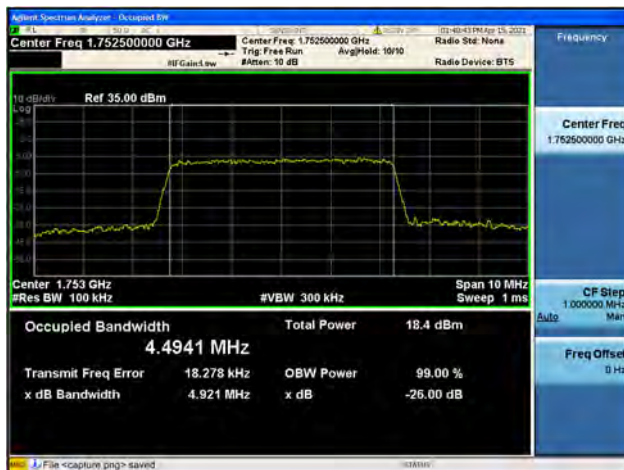
Band4 / 5MHz / High CH / QPSK



Band4 / 5MHz / High CH / 16QAM



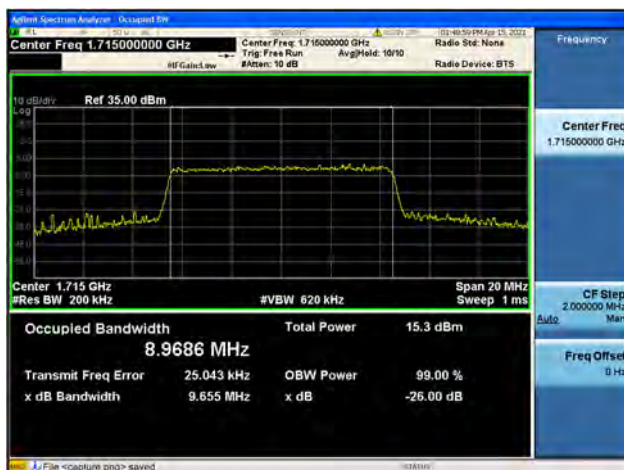
Band4 / 5MHz / High CH / 64QAM



Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM

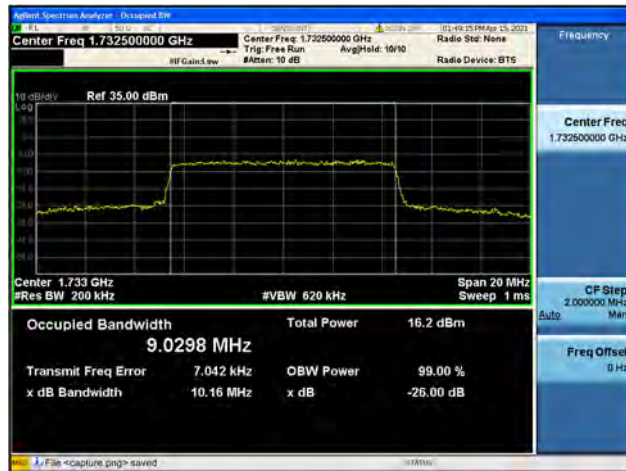


Band4 / 10MHz / Low CH / 64QAM





Band4 / 10MHz / Mid CH / QPSK



Band4 / 10MHz / Mid CH / 16QAM



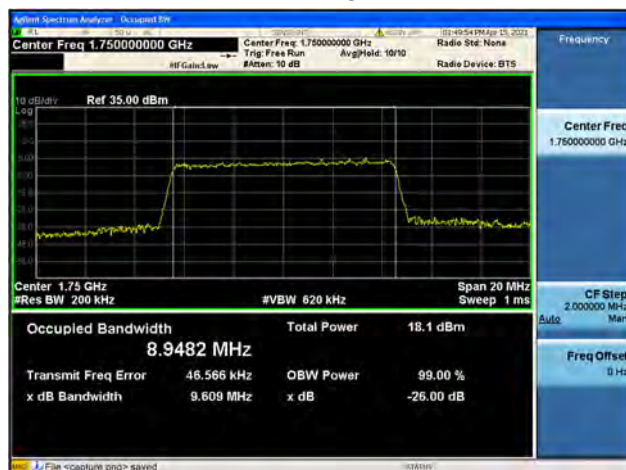
Band4 / 10MHz / Mid CH / 64QAM



Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM

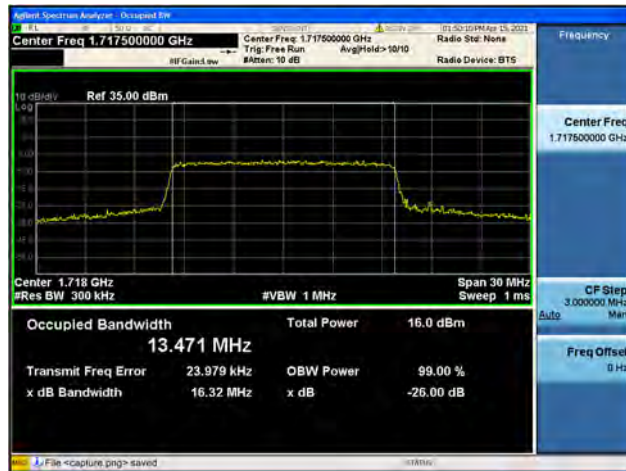


Band4 / 10MHz / High CH / 64QAM

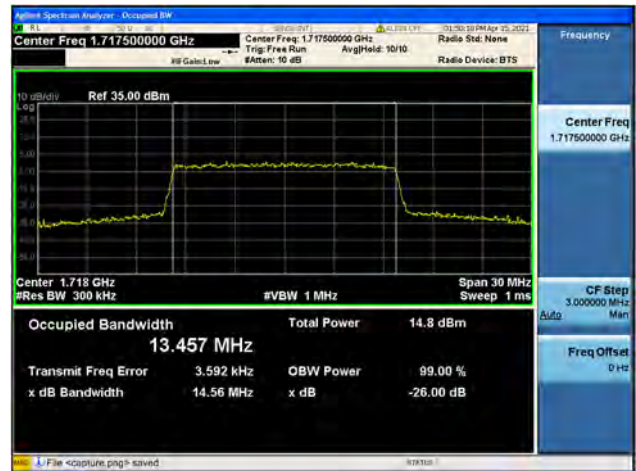




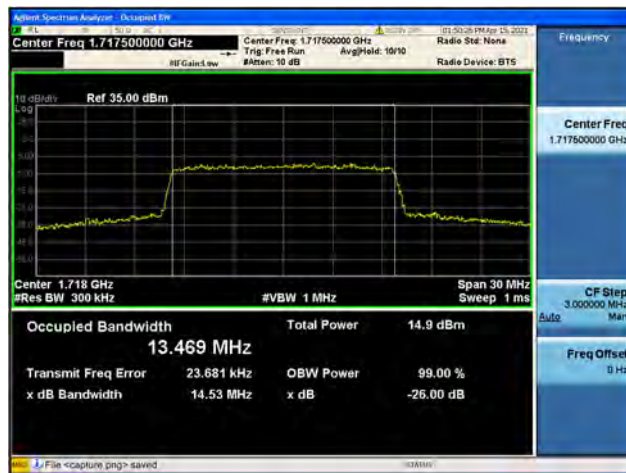
Band4 / 15MHz / Low CH / QPSK



Band4 / 15MHz / Low CH / 16QAM



Band4 / 15MHz / Low CH / 64QAM



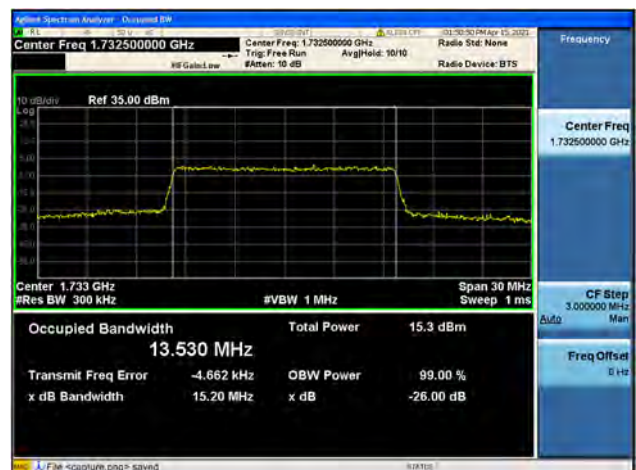
Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM

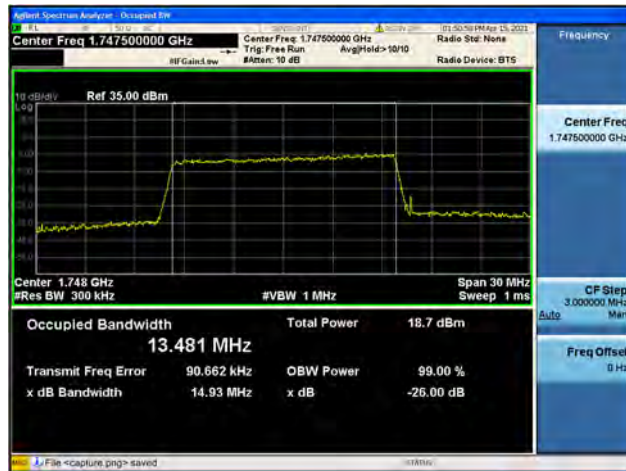


Band4 / 15MHz / Mid CH / 64QAM

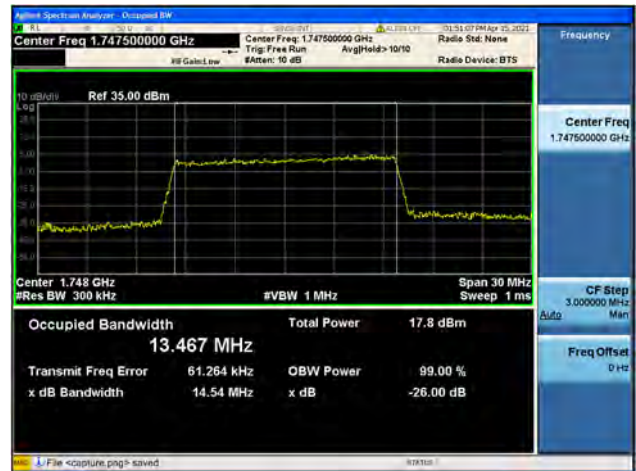




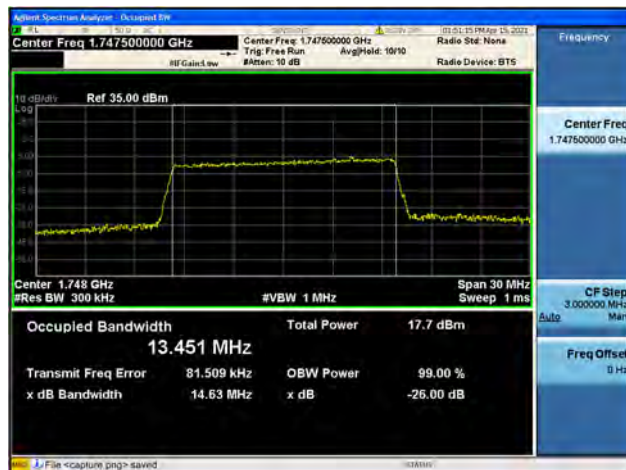
Band4 / 15MHz / High CH / QPSK



Band4 / 15MHz / High CH / 16QAM



Band4 / 15MHz / High CH / 64QAM



Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM

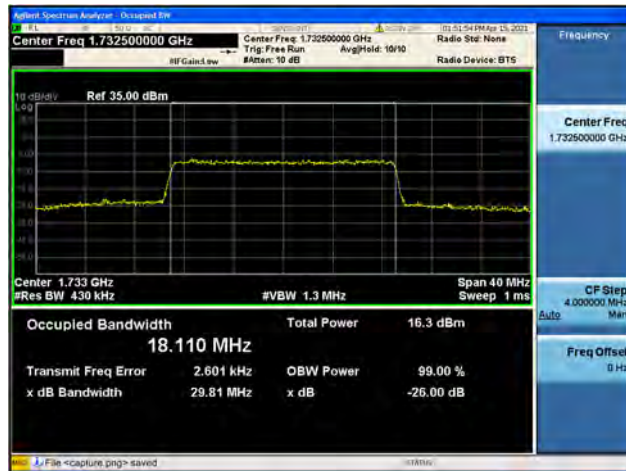


Band4 / 20MHz / Low CH / 64QAM

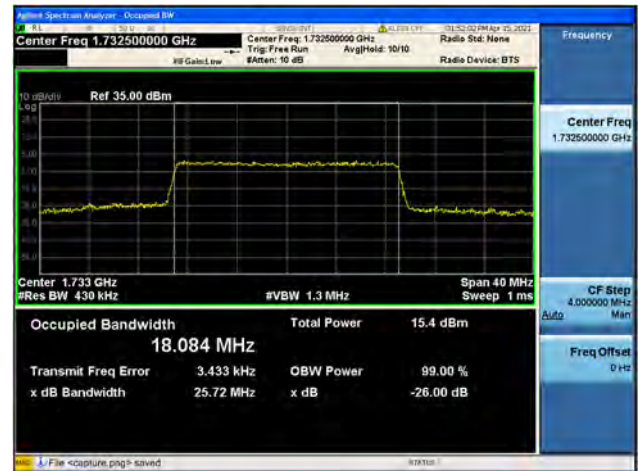




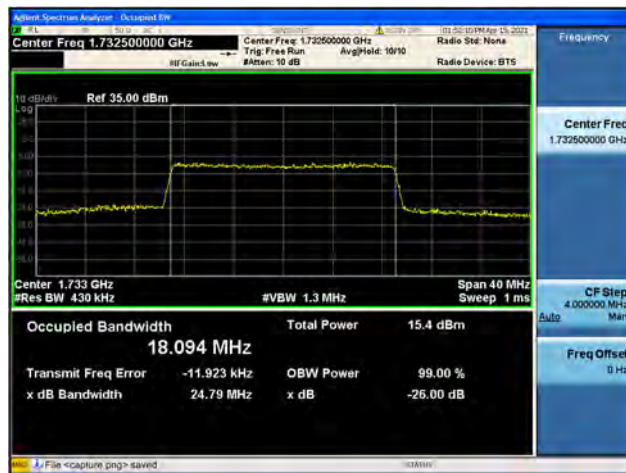
Band4 / 20MHz / Mid CH / QPSK



Band4 / 20MHz / Mid CH / 16QAM



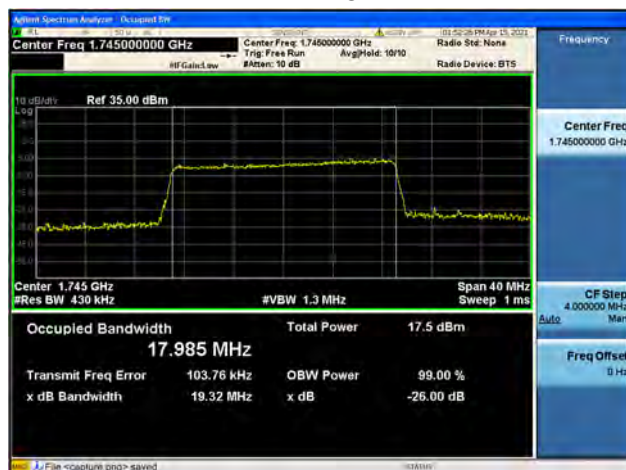
Band4 / 20MHz / Mid CH / 64QAM



Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM

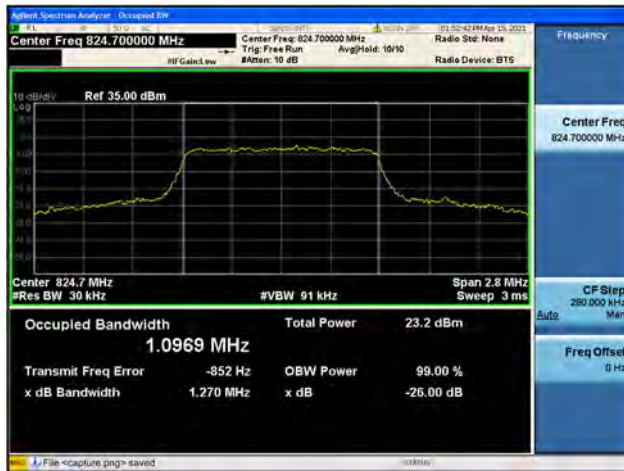


Band4 / 20MHz / High CH / 64QAM

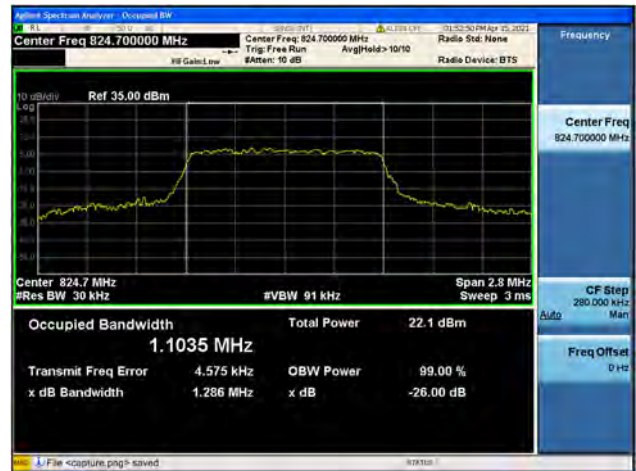




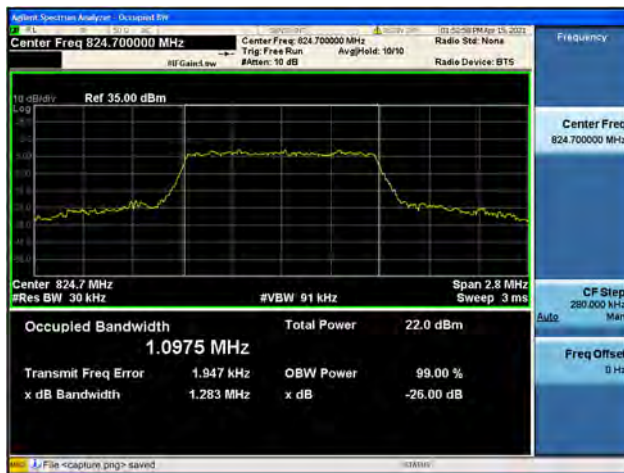
Band5 / 1.4MHz / Low CH / QPSK



Band5 / 1.4MHz / Low CH / 16QAM



Band5 / 1.4MHz / Low CH / 64QAM



Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM

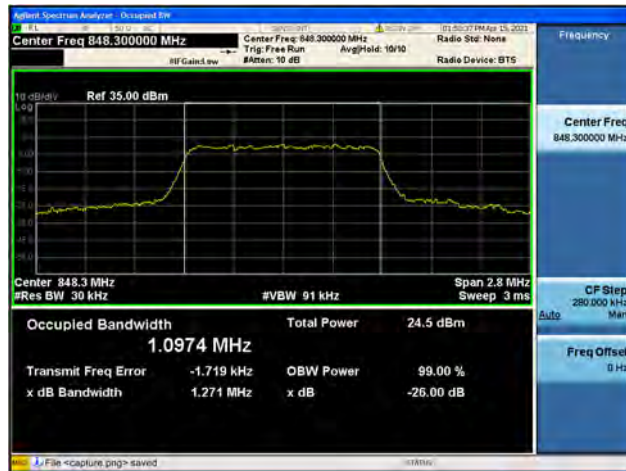


Band5 / 1.4MHz / Mid CH / 64QAM

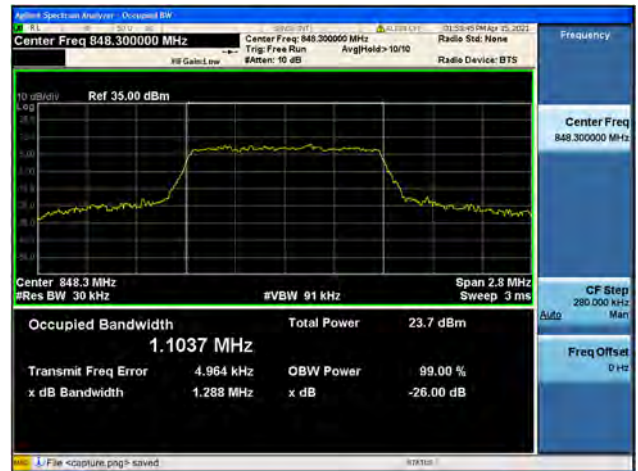




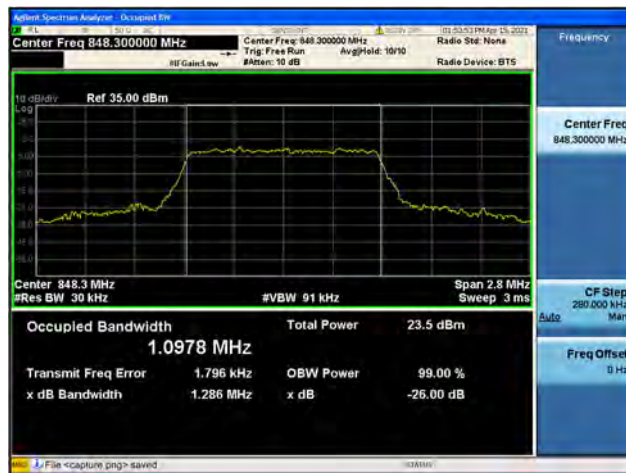
Band5 / 1.4MHz / High CH / QPSK



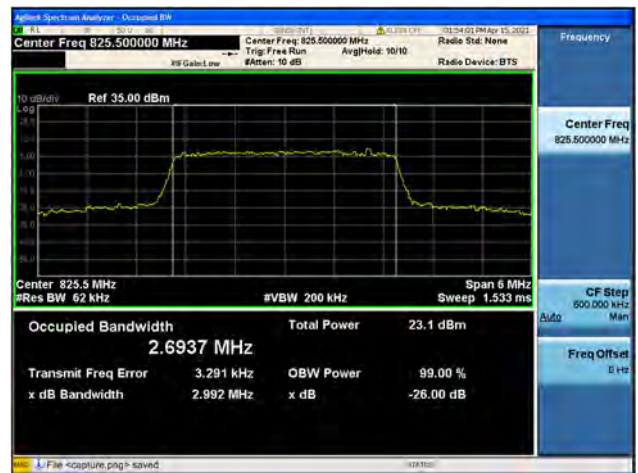
Band5 / 1.4MHz / High CH / 16QAM



Band5 / 1.4MHz / High CH / 64QAM



Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM

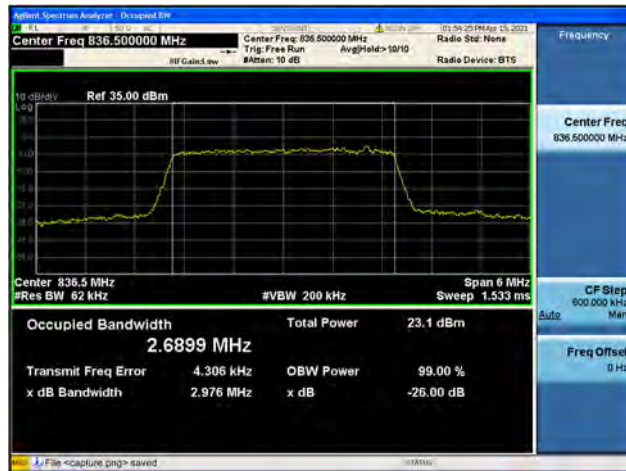


Band5 / 3MHz / Low CH / 64QAM

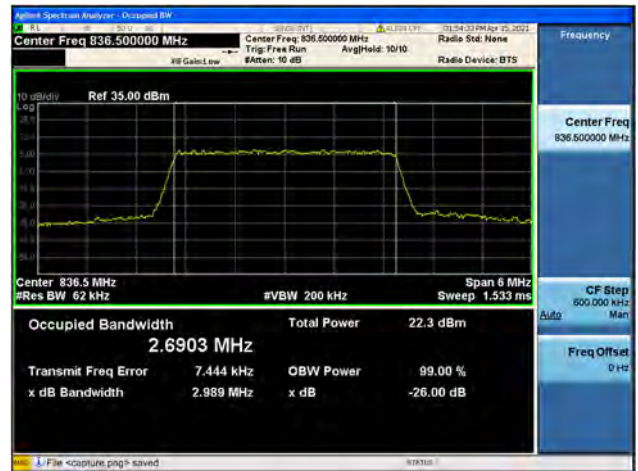




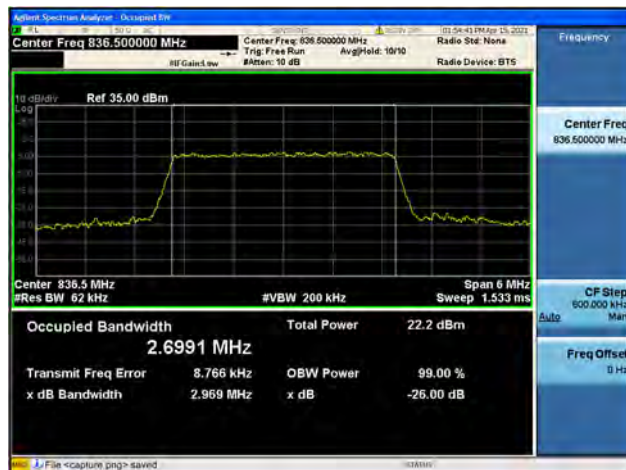
Band5 / 3MHz / Mid CH / QPSK



Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / Mid CH / 64QAM



Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM

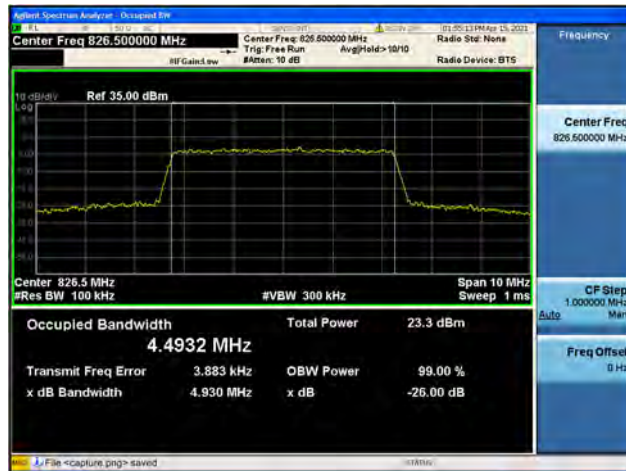


Band5 / 3MHz / High CH / 64QAM

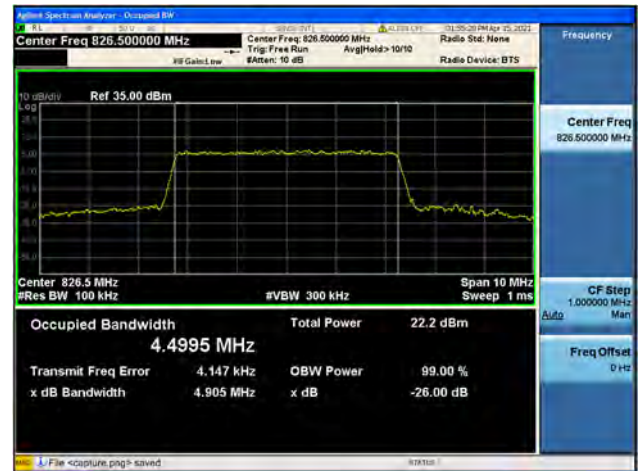




Band5 / 5MHz / Low CH / QPSK



Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Low CH / 64QAM



Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM

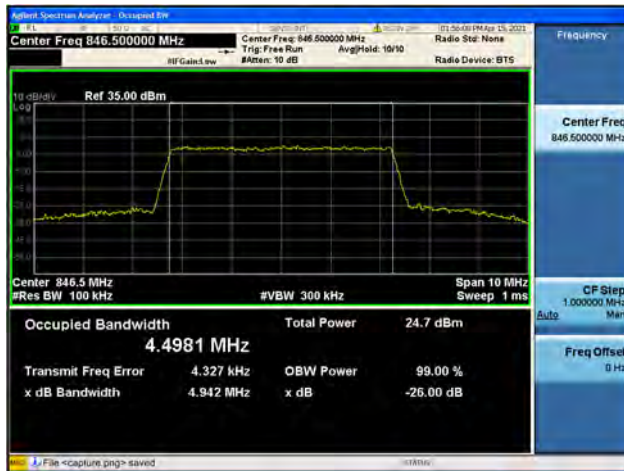


Band5 / 5MHz / Mid CH / 64QAM

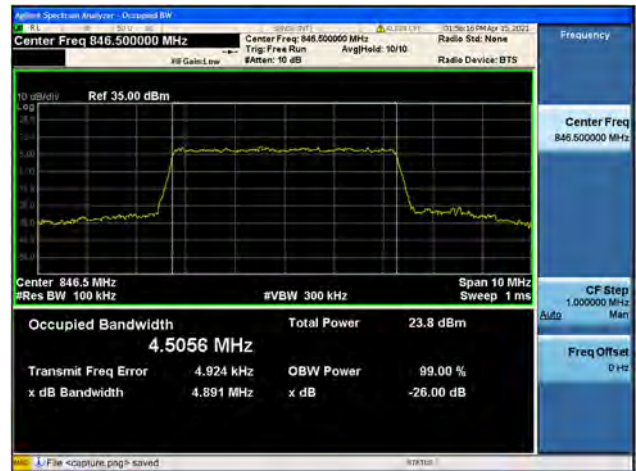




Band5 / 5MHz / High CH / QPSK



Band5 / 5MHz / High CH / 16QAM



Band5 / 5MHz / High CH / 64QAM



Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM

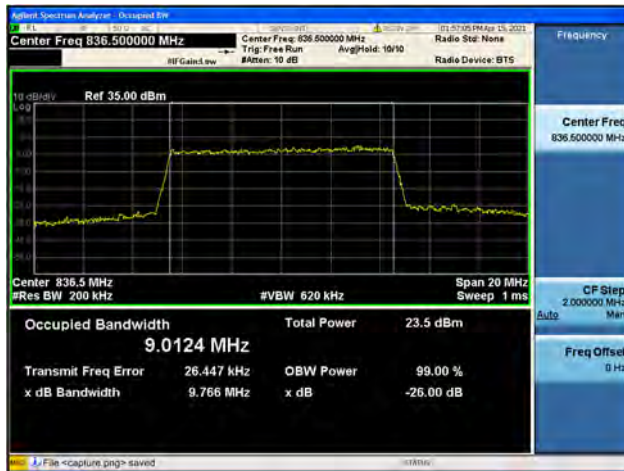


Band5 / 10MHz / Low CH / 64QAM

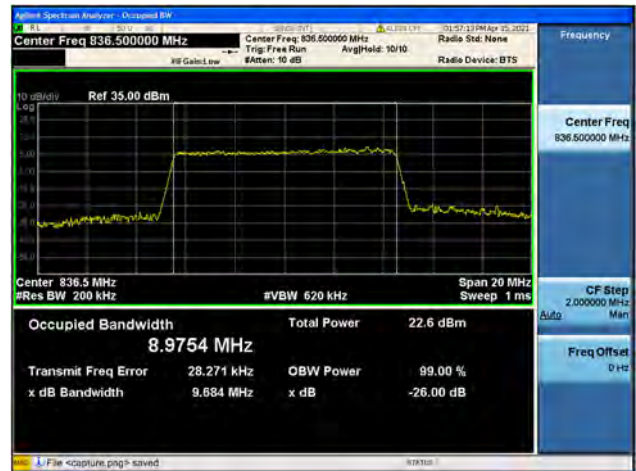




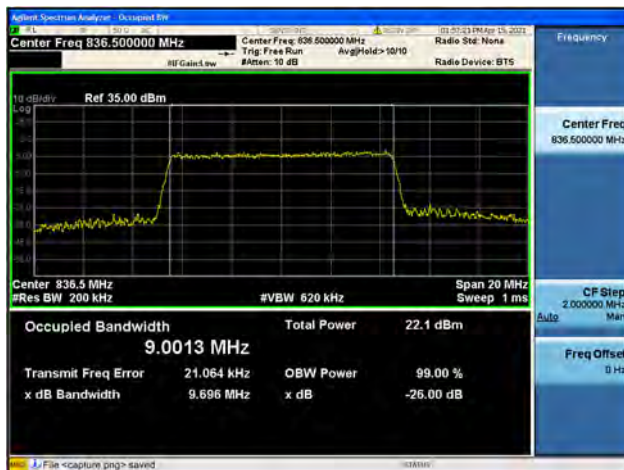
Band5 / 10MHz / Mid CH / QPSK



Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / Mid CH / 64QAM



Band5 / 10MHz / High CH / QPSK



Band5 / 10MHz / High CH / 16QAM

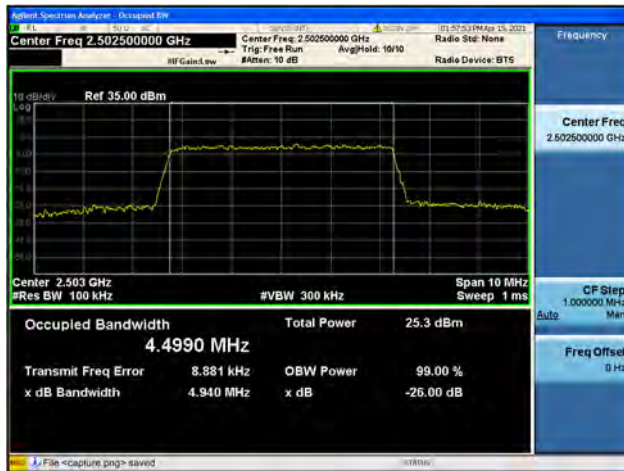


Band5 / 10MHz / High CH / 64QAM





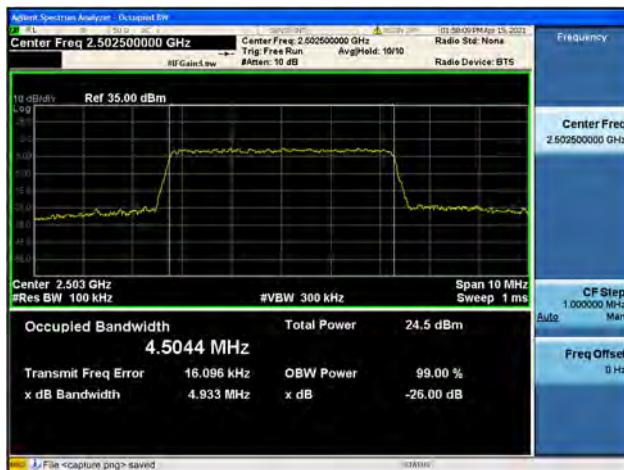
Band7 / 5MHz / Low CH / QPSK



Band7 / 5MHz / Low CH / 16QAM



Band7 / 5MHz / Low CH / 64QAM



Band7 / 5MHz / Mid CH / QPSK



Band7 / 5MHz / Mid CH / 16QAM

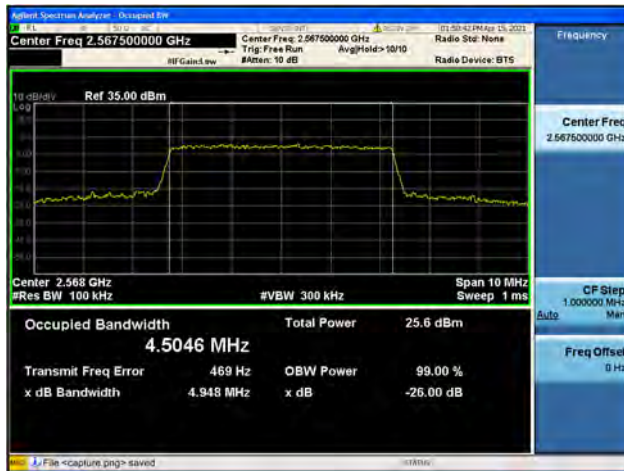


Band7 / 5MHz / Mid CH / 64QAM





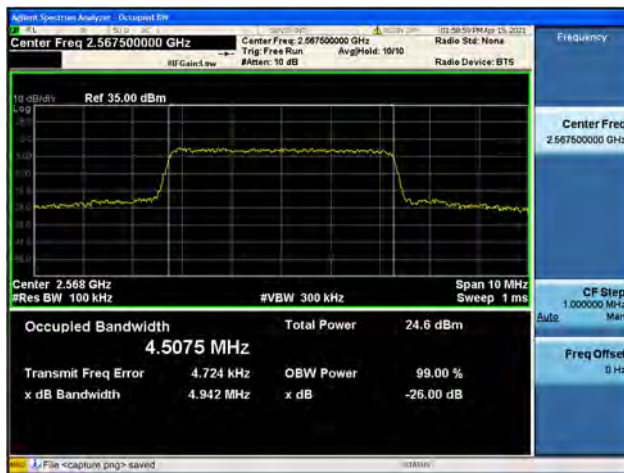
Band7 / 5MHz / High CH / QPSK



Band7 / 5MHz / High CH / 16QAM



Band7 / 5MHz / High CH / 64QAM



Band7 / 10MHz / Low CH / QPSK



Band7 / 10MHz / Low CH / 16QAM

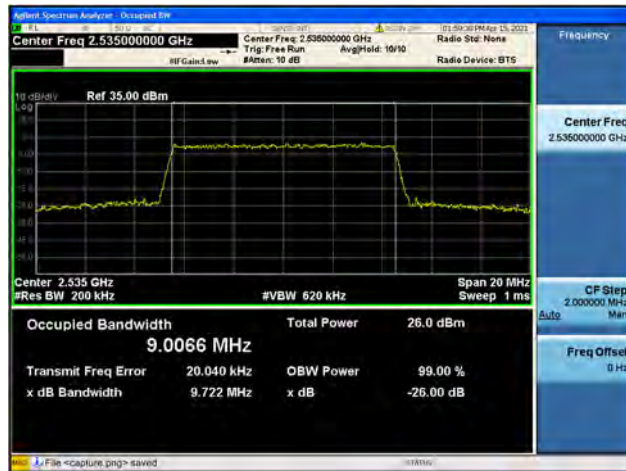


Band7 / 10MHz / Low CH / 64QAM

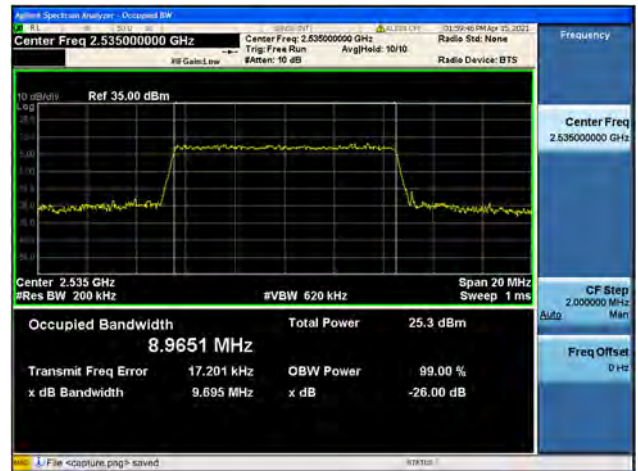




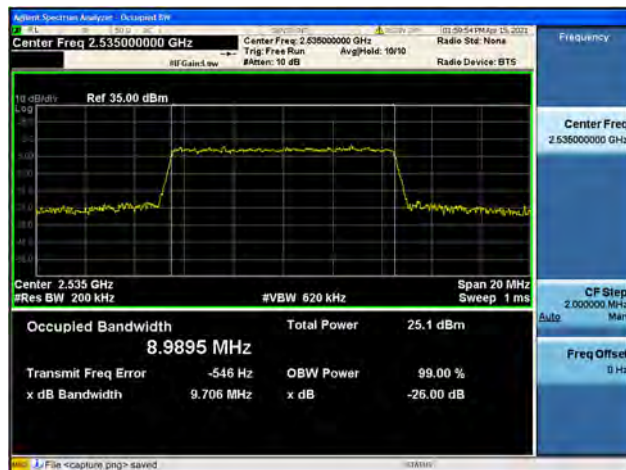
Band7 / 10MHz / Mid CH / QPSK



Band7 / 10MHz / Mid CH / 16QAM



Band7 / 10MHz / Mid CH / 64QAM



Band7 / 10MHz / High CH / QPSK



Band7 / 10MHz / High CH / 16QAM

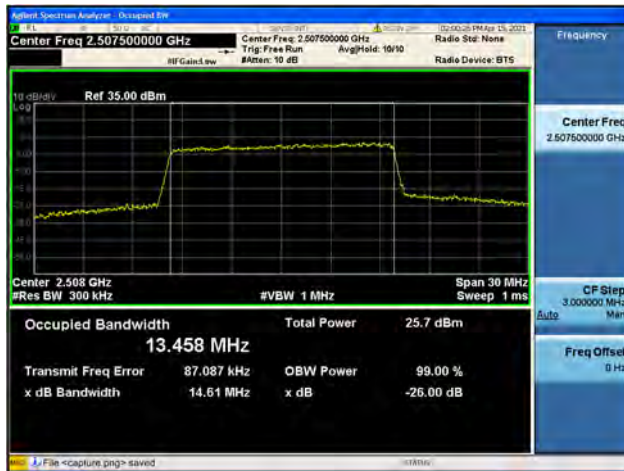


Band7 / 10MHz / High CH / 64QAM





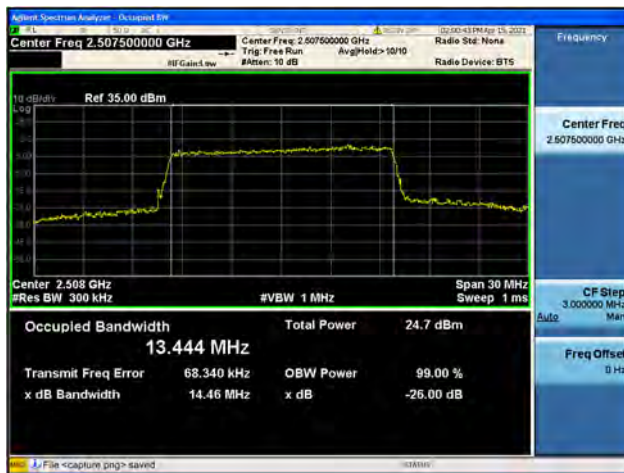
Band7 / 15MHz / Low CH / QPSK



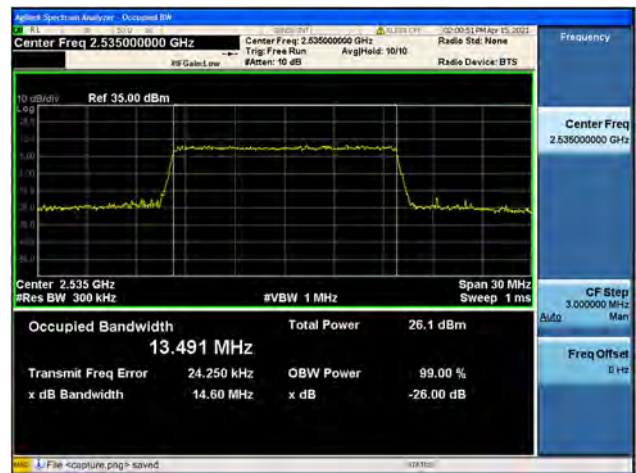
Band7 / 15MHz / Low CH / 16QAM



Band7 / 15MHz / Low CH / 64QAM



Band7 / 15MHz / Mid CH / QPSK



Band7 / 15MHz / Mid CH / 16QAM

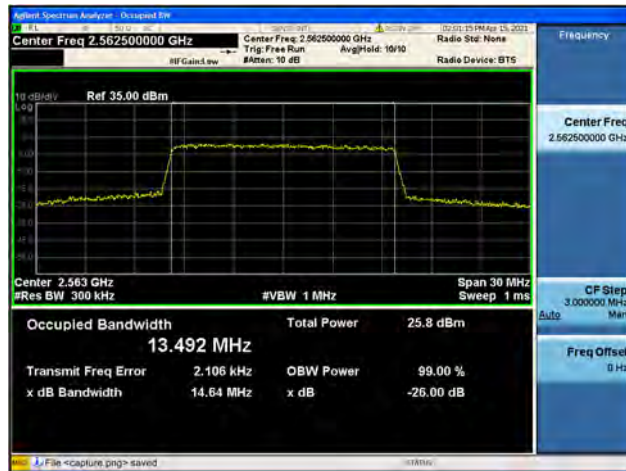


Band7 / 15MHz / Mid CH / 64QAM





Band7 / 15MHz / High CH / QPSK



Band7 / 15MHz / High CH / 16QAM



Band7 / 15MHz / High CH / 64QAM



Band7 / 20MHz / Low CH / QPSK



Band7 / 20MHz / Low CH / 16QAM

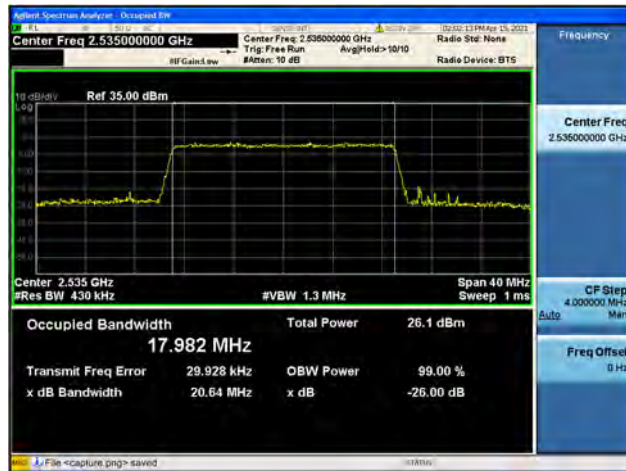


Band7 / 20MHz / Low CH / 64QAM

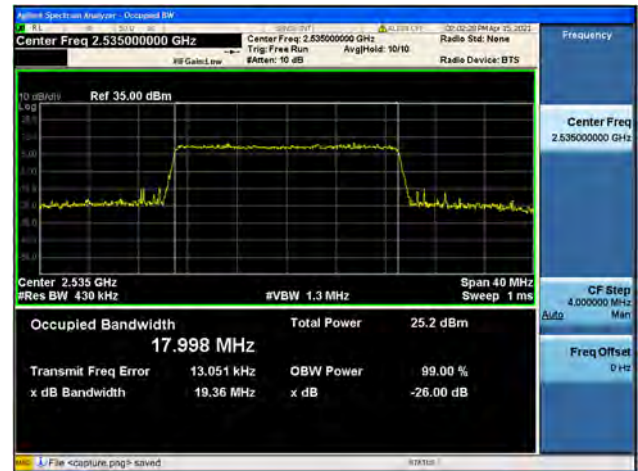




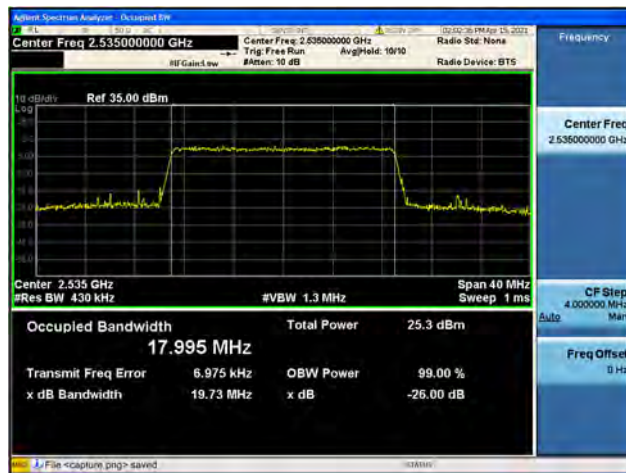
Band7 / 20MHz / Mid CH / QPSK



Band7 / 20MHz / Mid CH / 16QAM



Band7 / 20MHz / Mid CH / 64QAM



Band7 / 20MHz / High CH / QPSK



Band7 / 20MHz / High CH / 16QAM

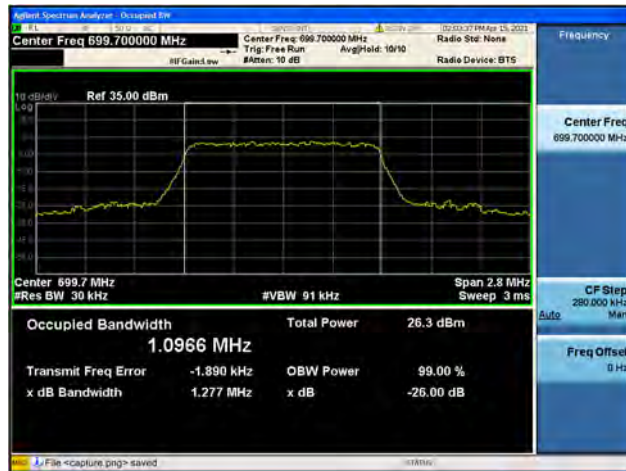


Band7 / 20MHz / High CH / 64QAM

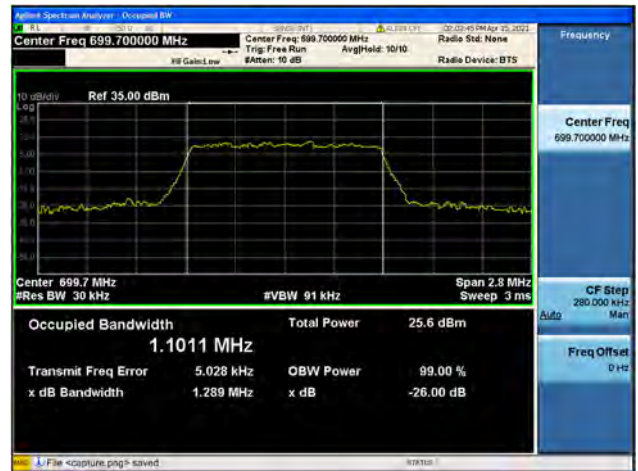




Band12 / 1.4MHz / Low CH / QPSK



Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Low CH / 64QAM



Band12 / 1.4MHz / Mid CH / QPSK



Band12 / 1.4MHz / Mid CH / 16QAM

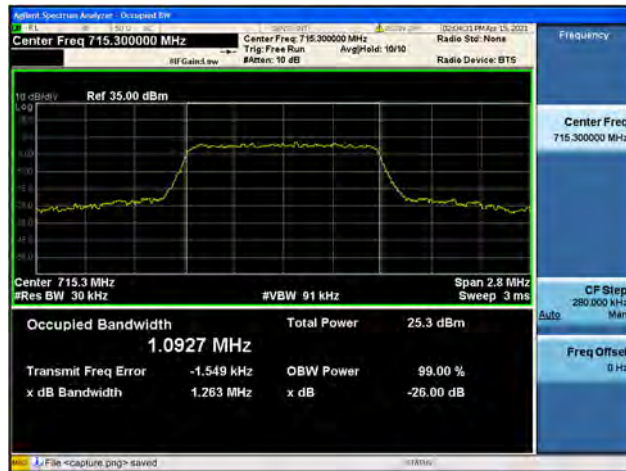


Band12 / 1.4MHz / Mid CH / 64QAM

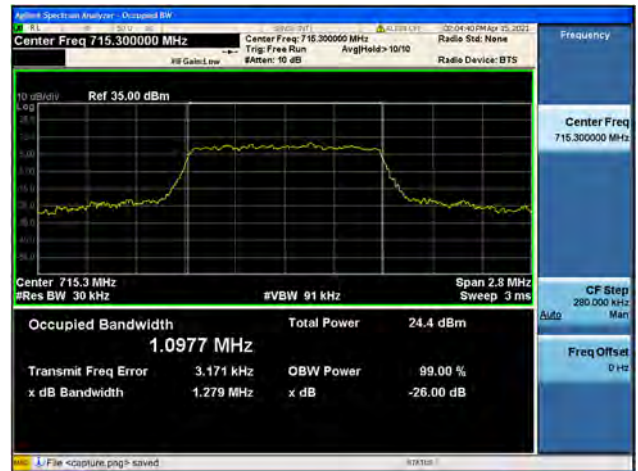




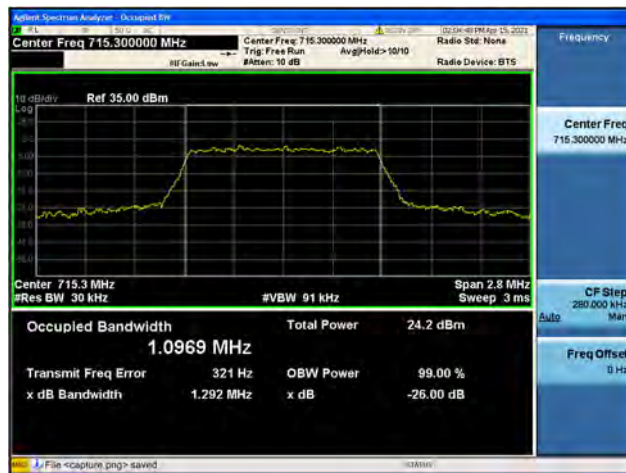
Band12 / 1.4MHz / High CH / QPSK



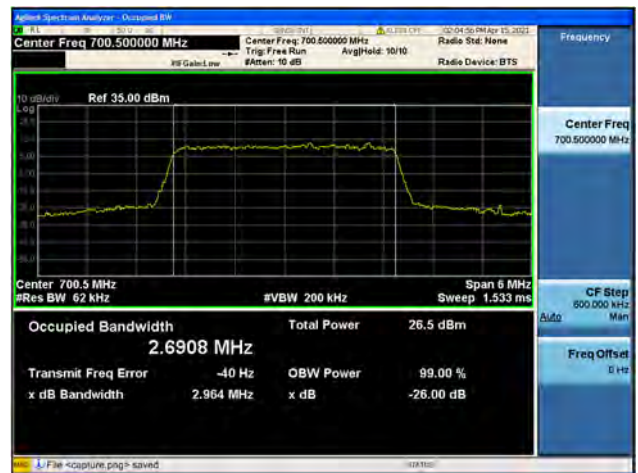
Band12 / 1.4MHz / High CH / 16QAM



Band12 / 1.4MHz / High CH / 64QAM



Band12 / 3MHz / Low CH / QPSK



Band12 / 3MHz / Low CH / 16QAM

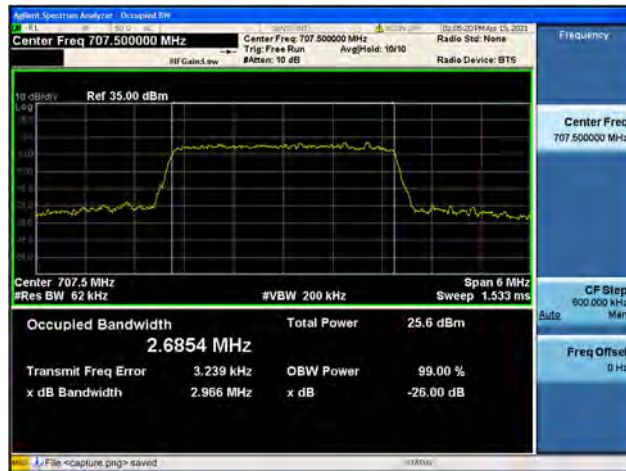


Band12 / 3MHz / Low CH / 64QAM

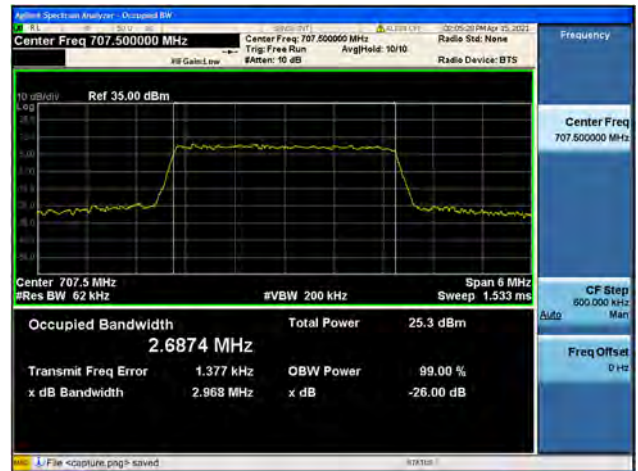




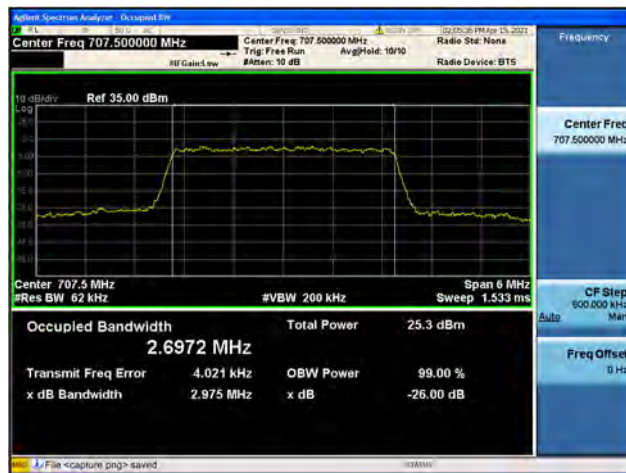
Band12 / 3MHz / Mid CH / QPSK



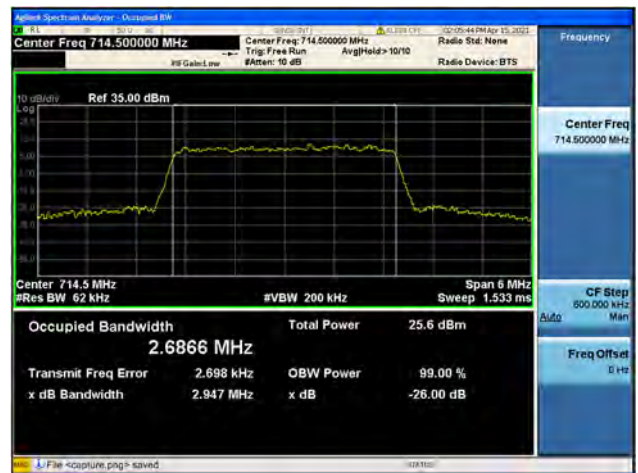
Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / Mid CH / 64QAM



Band12 / 3MHz / High CH / QPSK



Band12 / 3MHz / High CH / 16QAM

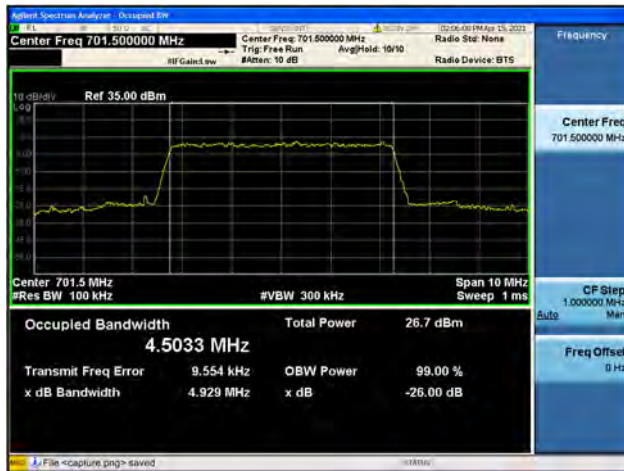


Band12 / 3MHz / High CH / 64QAM





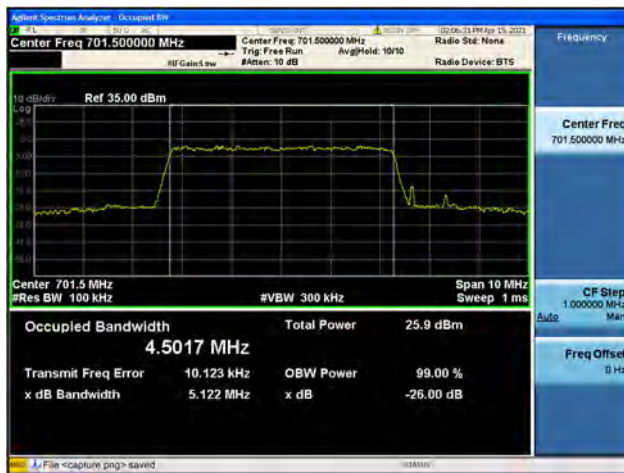
Band12 / 5MHz / Low CH / QPSK



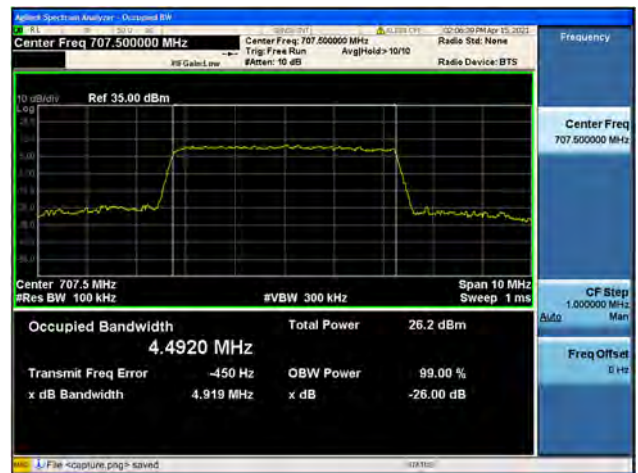
Band12 / 5MHz / Low CH / 16QAM



Band12 / 5MHz / Low CH / 64QAM



Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM



Band12 / 5MHz / Mid CH / 64QAM

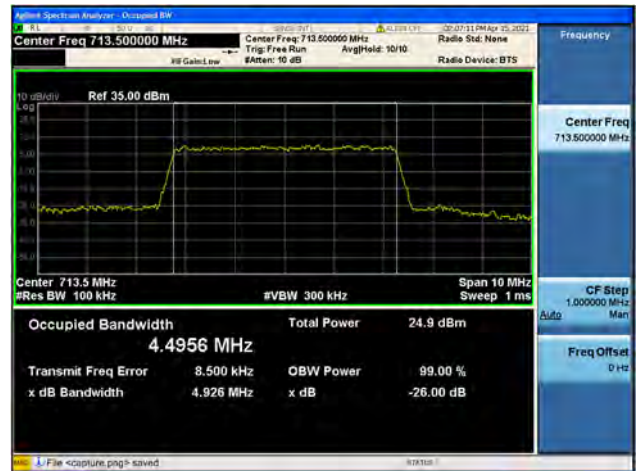




Band12 / 5MHz / High CH / QPSK



Band12 / 5MHz / High CH / 16QAM



Band12 / 5MHz / High CH / 64QAM



Band12 / 10MHz / Low CH / QPSK



Band12 / 10MHz / Low CH / 16QAM

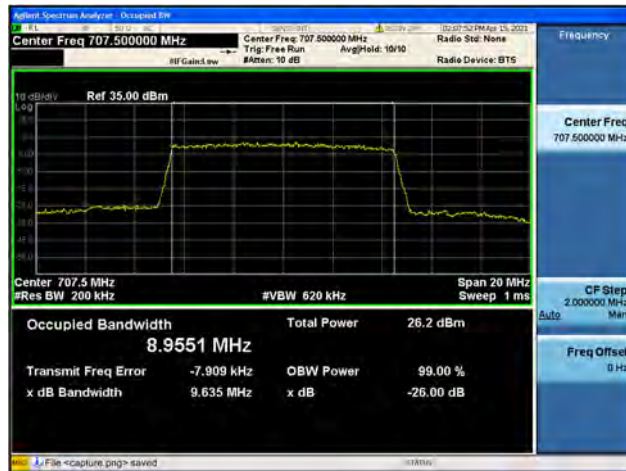


Band12 / 10MHz / Low CH / 64QAM





Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / Mid CH / 64QAM



Band12 / 10MHz / High CH / QPSK



Band12 / 10MHz / High CH / 16QAM

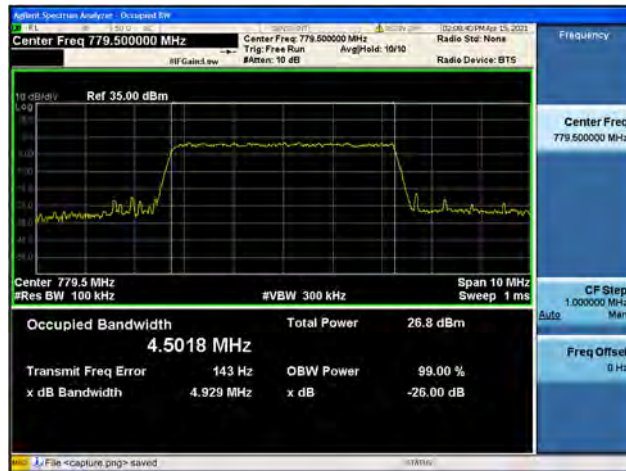


Band12 / 10MHz / High CH / 64QAM

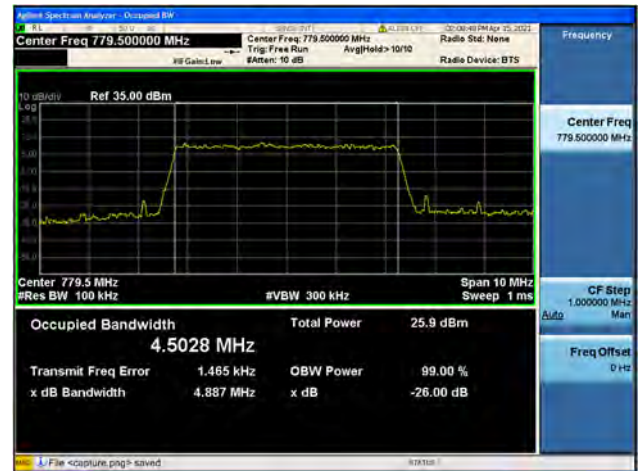




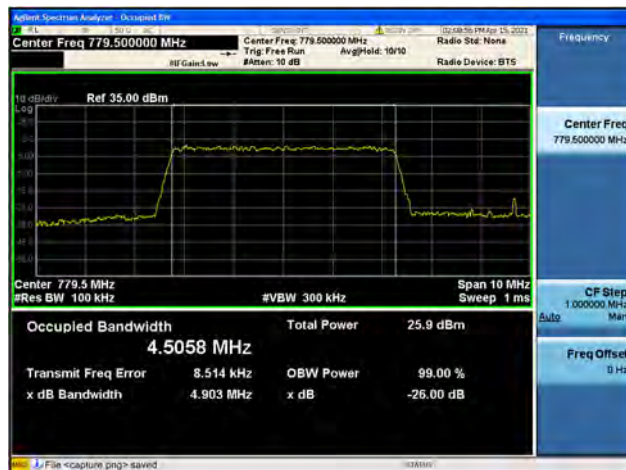
Band13 / 5MHz / Low CH / QPSK



Band13 / 5MHz / Low CH / 16QAM



Band13 / 5MHz / Low CH / 64QAM



Band13 / 5MHz / Mid CH / QPSK



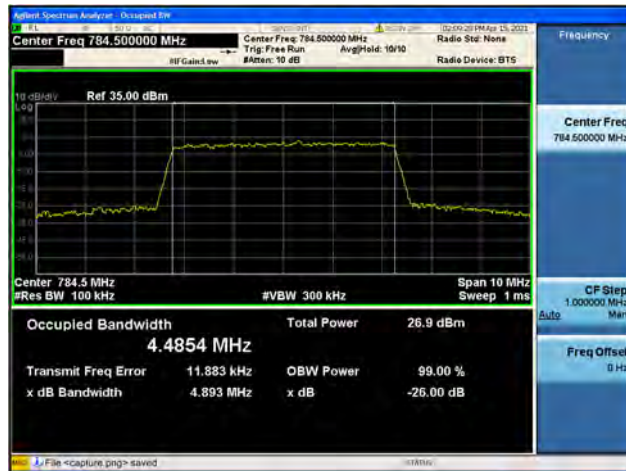
Band13 / 5MHz / Mid CH / 16QAM



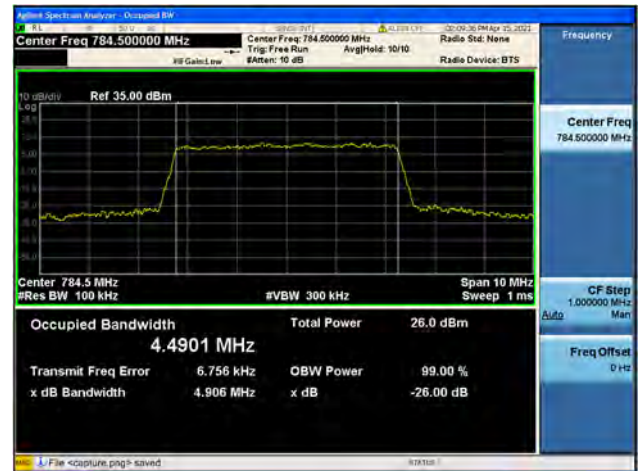
Band13 / 5MHz / Mid CH / 64QAM



Band13 / 5MHz / High CH / QPSK



Band13 / 5MHz / High CH / 16QAM



Band13 / 5MHz / High CH / 64QAM



Band13 / 10MHz / Low CH / QPSK



Band13 / 10MHz / Low CH / 16QAM

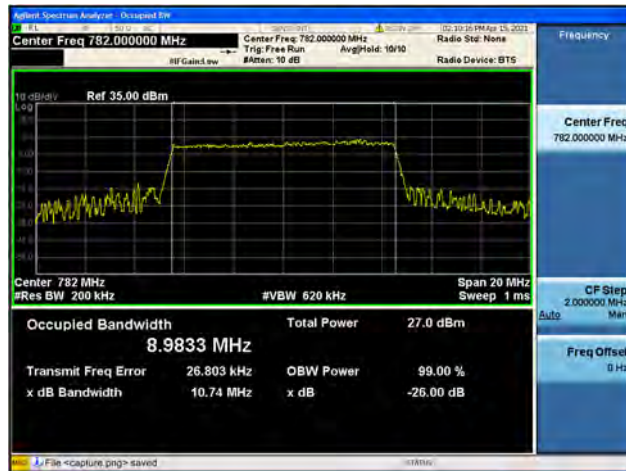


Band13 / 10MHz / Low CH / 64QAM





Band13 / 10MHz / Mid CH / QPSK



Band13 / 10MHz / Mid CH / 16QAM



Band13 / 10MHz / Mid CH / 64QAM



Band13 / 10MHz / High CH / QPSK



Band13 / 10MHz / High CH / 16QAM

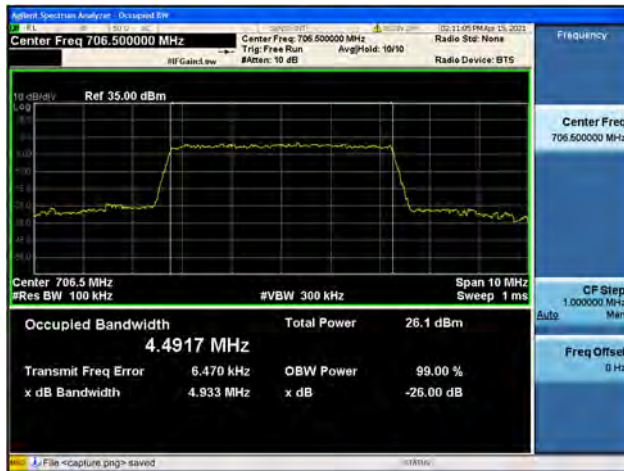


Band13 / 10MHz / High CH / 64QAM





Band17 / 5MHz / Low CH / QPSK



Band17 / 5MHz / Low CH / 16QAM



Band17 / 5MHz / Low CH / 64QAM



Band17 / 5MHz / Mid CH / QPSK



Band17 / 5MHz / Mid CH / 16QAM



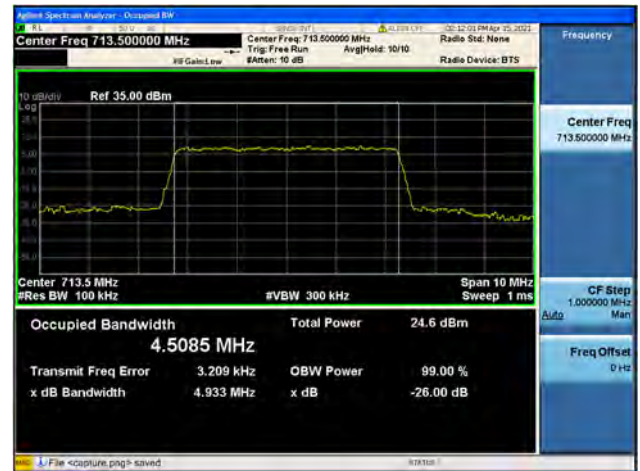
Band17 / 5MHz / Mid CH / 64QAM



Band17 / 5MHz / High CH / QPSK



Band17 / 5MHz / High CH / 16QAM



Band17 / 5MHz / High CH / 64QAM



Band17 / 10MHz / Low CH / QPSK



Band17 / 10MHz / Low CH / 16QAM



Band17 / 10MHz / Low CH / 64QAM





Band17 / 10MHz / Mid CH / QPSK



Band17 / 10MHz / Mid CH / 16QAM



Band17 / 10MHz / Mid CH / 64QAM



Band17 / 10MHz / High CH / QPSK



Band17 / 10MHz / High CH / 16QAM



Band17 / 10MHz / High CH / 64QAM



2.3. Frequency Stability

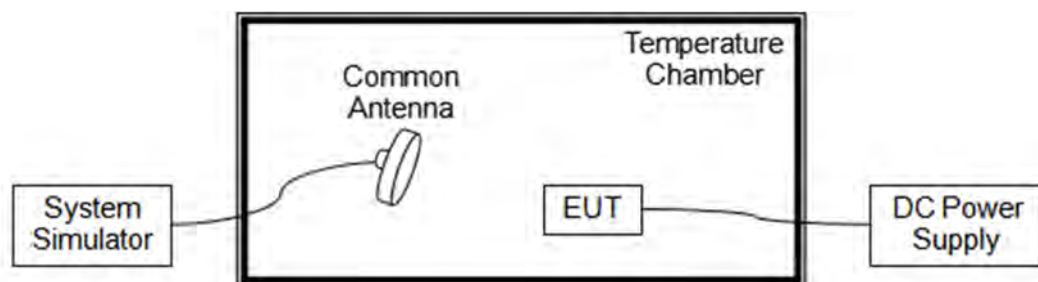
2.3.1. Requirement

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

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

Note: The operating temperature of EUT is from 0°C to 55°C , which are specified by the applicant.

2.3.2. Test Description



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

2.3.3. Test Procedure

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



2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85V, 4.40V and 3.50V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	72	0.038	PASS
100		0	27	0.014	
100		+10	82	0.044	
100		+20	-93	-0.049	
100		+30	51	0.027	
100		+40	36	0.019	
100		+50	88	0.047	
100		+55	95	0.051	
115	4.40	+20	-22	-0.012	
85	3.50	+20	43	0.023	

LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	49	0.028	PASS
100		0	71	0.041	
100		+10	-91	-0.053	
100		+20	-24	-0.014	
100		+30	-35	-0.020	
100		+40	22	0.013	
100		+50	-74	-0.043	
100		+55	85	0.049	
115	4.40	+20	46	0.027	
85	3.50	+20	75	0.043	



LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	-77	-0.092	PASS
100		0	-43	-0.051	
100		+10	82	0.098	
100		+20	-94	-0.112	
100		+30	-47	-0.056	
100		+40	-78	-0.093	
100		+50	90	0.108	
100		+55	79	0.094	
115	4.40	+20	31	0.037	
85	3.50	+20	49	0.059	

LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	-79	-0.031	PASS
100		0	41	0.016	
100		+10	62	0.024	
100		+20	-55	-0.022	
100		+30	-96	-0.038	
100		+40	-42	-0.017	
100		+50	-47	-0.019	
100		+55	40	0.016	
115	4.40	+20	54	0.021	
85	3.50	+20	42	0.017	



LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	-91	-0.129	PASS
100		0	54	0.076	
100		+10	-47	-0.066	
100		+20	81	0.114	
100		+30	62	0.088	
100		+40	34	0.048	
100		+50	-72	-0.102	
100		+55	87	0.123	
115	4.40	+20	71	0.100	
85	3.50	+20	83	0.117	

LTE Band 13, QPSK, Channel 23230, Frequency 782.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	-91	-0.116	PASS
100		0	33	0.042	
100		+10	18	0.023	
100		+20	-70	-0.090	
100		+30	92	0.118	
100		+40	-53	-0.068	
100		+50	-40	-0.051	
100		+55	40	0.051	
115	4.40	+20	61	0.078	
85	3.50	+20	83	0.106	



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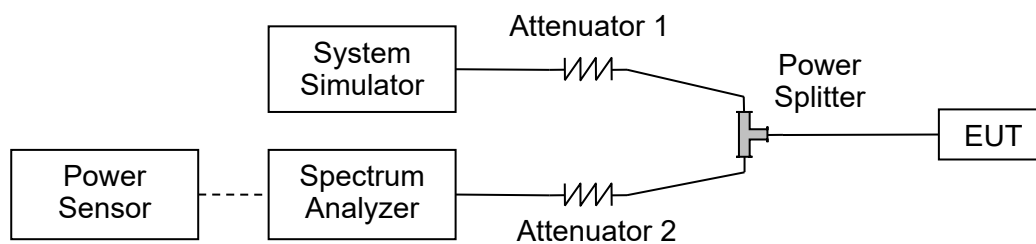
LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
100	3.85	+20(Ref)	-60	-0.085	PASS
100		0	27	0.038	
100		+10	-58	-0.082	
100		+20	65	0.092	
100		+30	-44	-0.062	
100		+40	31	0.044	
100		+50	-85	-0.120	
100		+55	96	0.135	
115	4.40	+20	-49	-0.069	
85	3.50	+20	52	0.073	

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	4.75	<=13	PASS
	Low	16QAM	5.68	<=13	PASS
	Low	64QAM	5.65	<=13	PASS
	Mid	QPSK	5.47	<=13	PASS
	Mid	16QAM	6.25	<=13	PASS
	Mid	64QAM	6.18	<=13	PASS
	High	QPSK	4.74	<=13	PASS
	High	16QAM	5.56	<=13	PASS
	High	64QAM	5.55	<=13	PASS
3	Low	QPSK	4.95	<=13	PASS
	Low	16QAM	5.85	<=13	PASS
	Low	64QAM	5.75	<=13	PASS
	Mid	QPSK	5.46	<=13	PASS
	Mid	16QAM	6.27	<=13	PASS
	Mid	64QAM	6.18	<=13	PASS
	High	QPSK	4.93	<=13	PASS
	High	16QAM	5.84	<=13	PASS
	High	64QAM	5.75	<=13	PASS
5	Low	QPSK	5.25	<=13	PASS
	Low	16QAM	5.95	<=13	PASS
	Low	64QAM	5.92	<=13	PASS
	Mid	QPSK	5.59	<=13	PASS
	Mid	16QAM	6.21	<=13	PASS
	Mid	64QAM	6.15	<=13	PASS
	High	QPSK	5.29	<=13	PASS
	High	16QAM	5.96	<=13	PASS
	High	64QAM	5.91	<=13	PASS
10	Low	QPSK	5.31	<=13	PASS
	Low	16QAM	6.01	<=13	PASS
	Low	64QAM	5.99	<=13	PASS
	Mid	QPSK	5.57	<=13	PASS
	Mid	16QAM	6.17	<=13	PASS
	Mid	64QAM	6.21	<=13	PASS
	High	QPSK	5.32	<=13	PASS
	High	16QAM	6.05	<=13	PASS
	High	64QAM	6.08	<=13	PASS



15	Low	QPSK	5.22	≤ 13	PASS
	Low	16QAM	6.14	≤ 13	PASS
	Low	64QAM	5.95	≤ 13	PASS
	Mid	QPSK	5.36	≤ 13	PASS
	Mid	16QAM	6.08	≤ 13	PASS
	Mid	64QAM	6.07	≤ 13	PASS
	High	QPSK	5.14	≤ 13	PASS
	High	16QAM	5.9	≤ 13	PASS
	High	64QAM	5.89	≤ 13	PASS
20	Low	QPSK	5.31	≤ 13	PASS
	Low	16QAM	6.08	≤ 13	PASS
	Low	64QAM	6.05	≤ 13	PASS
	Mid	QPSK	5.42	≤ 13	PASS
	Mid	16QAM	6.15	≤ 13	PASS
	Mid	64QAM	6.12	≤ 13	PASS
	High	QPSK	5.18	≤ 13	PASS
	High	16QAM	5.98	≤ 13	PASS
	High	64QAM	5.99	≤ 13	PASS



LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.09	<=13	PASS
	Low	16QAM	5.69	<=13	PASS
	Low	64QAM	5.62	<=13	PASS
	Mid	QPSK	4.11	<=13	PASS
	Mid	16QAM	4.98	<=13	PASS
	Mid	64QAM	5.02	<=13	PASS
	High	QPSK	4.7	<=13	PASS
	High	16QAM	5.58	<=13	PASS
	High	64QAM	5.62	<=13	PASS
3	Low	QPSK	4.96	<=13	PASS
	Low	16QAM	5.84	<=13	PASS
	Low	64QAM	5.76	<=13	PASS
	Mid	QPSK	4.37	<=13	PASS
	Mid	16QAM	5.21	<=13	PASS
	Mid	64QAM	5.15	<=13	PASS
	High	QPSK	4.92	<=13	PASS
	High	16QAM	5.79	<=13	PASS
	High	64QAM	5.74	<=13	PASS
5	Low	QPSK	5.15	<=13	PASS
	Low	16QAM	5.89	<=13	PASS
	Low	64QAM	5.83	<=13	PASS
	Mid	QPSK	4.69	<=13	PASS
	Mid	16QAM	5.43	<=13	PASS
	Mid	64QAM	5.39	<=13	PASS
	High	QPSK	5.11	<=13	PASS
	High	16QAM	6.37	<=13	PASS
	High	64QAM	5.8	<=13	PASS
10	Low	QPSK	5.15	<=13	PASS
	Low	16QAM	5.89	<=13	PASS
	Low	64QAM	5.88	<=13	PASS
	Mid	QPSK	4.71	<=13	PASS
	Mid	16QAM	5.5	<=13	PASS
	Mid	64QAM	5.52	<=13	PASS
	High	QPSK	5.06	<=13	PASS
	High	16QAM	5.8	<=13	PASS
	High	64QAM	5.78	<=13	PASS



15	Low	QPSK	5.0	≤ 13	PASS
	Low	16QAM	5.7	≤ 13	PASS
	Low	64QAM	5.67	≤ 13	PASS
	Mid	QPSK	4.38	≤ 13	PASS
	Mid	16QAM	5.25	≤ 13	PASS
	Mid	64QAM	5.24	≤ 13	PASS
	High	QPSK	4.58	≤ 13	PASS
	High	16QAM	5.52	≤ 13	PASS
	High	64QAM	5.51	≤ 13	PASS
20	Low	QPSK	4.9	≤ 13	PASS
	Low	16QAM	5.8	≤ 13	PASS
	Low	64QAM	5.73	≤ 13	PASS
	Mid	QPSK	4.66	≤ 13	PASS
	Mid	16QAM	5.48	≤ 13	PASS
	Mid	64QAM	5.47	≤ 13	PASS
	High	QPSK	4.76	≤ 13	PASS
	High	16QAM	5.59	≤ 13	PASS
	High	64QAM	5.54	≤ 13	PASS

Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / Mid CH / 64QAM

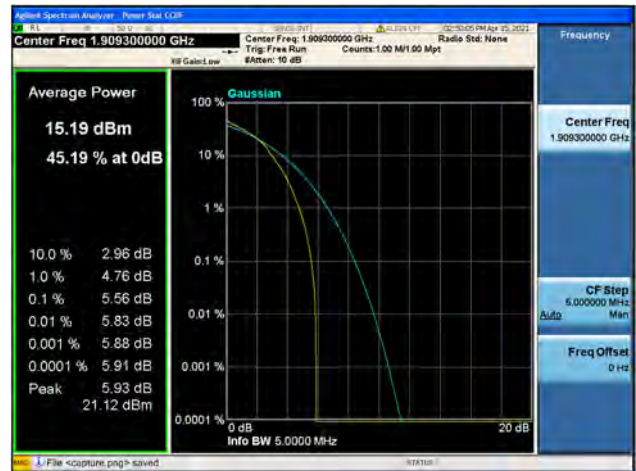




Band2 / 1.4MHz / High CH / QPSK



Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Low CH / 64QAM





Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM



Band2 / 3MHz / High CH / 64QAM

