



TEST REPORT

APPLICANT : Reliance Communications LLC

PRODUCT NAME : Orbic Fun Pro 5G

MODEL NAME : R678L5SFP

BRAND NAME : Orbic

FCC ID : 2ABGH-R678L5SFP

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

RECEIPT DATE : 2023-11-28

TEST DATE : 2024-01-02 to 2024-03-06

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Change History		
Version	Date	Reason for change
1.0	2024-04-25	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC
Applicant Address:	555 Wireless Blvd. Hauppauge, NY 11788, USA
Manufacturer:	Unimaxcomm
Manufacturer Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China 518110

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic Fun Pro 5G	
Sample No.:	3#	
Hardware Version:	V1.0	
Software Version:	R678L5SFP_v1.0.18_LVZ	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 2 / 4 / 5 / 7 / 12 / 13 / 66	
Carrier Aggregation(UL):	CA_5B, CA_48C, CA_66B, CA_66C, CA_2A-4A, CA_2A-5A, CA_2A-13A, CA_2A-66A, CA_4A-5A, CA_4A-13A, CA_5A-66A, CA_13A-66A	
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



Frequency Range:	LTE Band 66	Tx: 1710MHz–1780MHz
		Rx: 2110MHz–2200MHz
Channel Bandwidth:	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 13	5 MHz, 10MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	ANT 3: 2.47dBi; ANT 4: 1.40dBi
	LTE Band 4	ANT 3: 1.34dBi; ANT 4: 2.68dBi
	LTE Band 5	ANT 1: -8.22dBi;
	LTE Band 7	ANT 3: -3.61dBi; ANT 5: 3.22dBi
	LTE Band 12	ANT 1: -8.21dBi;
	LTE Band 13	ANT 1: -5.54dBi;
	LTE Band 66	ANT 3: -4.04dBi; ANT 4: 2.68dBi
Accessory Information:	Battery	
	Brand Name:	Orbic
	Model No.:	BTE-5004
	Serial No.:	N/A
	Capacity:	4870mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.
	AC Adapter	
	Brand Name:	Orbic
	Model No.:	OACH023US1
	Serial No.:	N/A
	Rated Output:	5V=3A; 9V=2A; 12V=1.5A
	Rated Input:	100-240V~50/60Hz, 0.5A
	Manufacturer 1:	WATAI ELECTRONICS PRIVATE LIMITED
	Manufacturer 2:	KANGYIN ELECTRONIC TECHNOLOGY CO.,LTD
	USB Cable	
	Model No.:	HX-YLMK-06
	Manufacturer:	HUIZHOU WASHIN ELECTRONICS CO.,LTD



REPORT No.: SZ23120302W04

Note 1: This is a variant report of original report (Report No.: SZ23080316W04, FCC ID: 2ABGH-R678L5S). Based on the similarity between before, only change the product name, model name, software version, FCC ID, appearance and antenna, the others are the same as before. No other changes, all RF parameters remain the same. The changes do not affect the test results.

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	0.271	0.219	0.173	18M0G7D	18M0W7D	18M0W7D	
15	0.269	0.220	0.171	13M5G7D	13M5W7D	13M5W7D	
10	0.267	0.220	0.169	9M01G7D	9M00W7D	9M02W7D	
5	0.266	0.219	0.166	4M51G7D	4M52W7D	4M51W7D	
3	0.267	0.218	0.167	2M73G7D	2M72W7D	2M71W7D	
1.4	0.265	0.219	0.167	1M10G7D	1M11W7D	1M11W7D	
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	0.358	0.301	0.234	18M0G7D	18M0W7D	18M0W7D	
15	0.356	0.299	0.225	13M5G7D	13M5W7D	13M5W7D	
10	0.354	0.298	0.228	9M01G7D	9M03W7D	9M02W7D	
5	0.353	0.299	0.229	4M53G7D	4M52W7D	4M53W7D	
3	0.355	0.299	0.228	2M71G7D	2M73W7D	2M72W7D	
1.4	0.353	0.299	0.232	1M11G7D	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	0.019	0.016	0.012	9M03G7D	9M00W7D	9M01W7D	
5	0.018	0.016	0.012	4M52G7D	4M52W7D	4M52W7D	
3	0.018	0.016	0.012	2M72G7D	2M72W7D	2M72W7D	
1.4	0.018	0.016	0.012	1M10G7D	1M12W7D	1M11W7D	
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	0.412	0.336	0.264	18M0G7D	18M0W7D	18M0W7D	
15	0.409	0.335	0.267	13M5G7D	13M5W7D	13M5W7D	
10	0.408	0.340	0.258	9M02G7D	9M03W7D	9M03W7D	
5	0.406	0.337	0.254	4M53G7D	4M52W7D	4M52W7D	
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	0.024	0.020	0.015	9M01G7D	9M01W7D	9M02W7D	
5	0.023	0.020	0.015	4M53G7D	4M52W7D	4M52W7D	
3	0.024	0.019	0.015	2M72G7D	2M72W7D	2M71W7D	
1.4	0.024	0.019	0.015	1M10G7D	1M11W7D	1M11W7D	



LTE Band 13	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM
10	0.043	0.035	0.027	9M00G7D	8M98W7D	9M00W7D
5	0.043	0.036	0.027	4M52G7D	4M53W7D	4M52W7D
LTE Band 66	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM
20	0.367	0.299	0.229	18M0G7D	18M0W7D	18M0W7D
15	0.365	0.300	0.232	13M5G7D	13M5W7D	13M5W7D
10	0.361	0.301	0.232	9M03G7D	9M01W7D	9M00W7D
5	0.362	0.301	0.231	4M54G7D	4M52W7D	4M53W7D
3	0.363	0.301	0.237	2M72G7D	2M72W7D	2M73W7D
1.4	0.361	0.299	0.228	1M10G7D	1M11W7D	1M11W7D



1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Jan. 02, 2024	Shen Biaohong Gan Jing	PASS _{Note1}	No deviation
2.1049	Occupied Bandwidth	Jan. 02, 2024	Gan Jing	PASS _{Note1}	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Mar. 05, 2024	Gan Jing	PASS _{Note1}	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Jan. 02, 2024	Gan Jing	PASS _{Note1}	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	Jan. 02, 2024	Gan Jing	PASS _{Note1}	No deviation
2.1051 22.917(a)	Band Edge	Jan. 02, 2024	Gan Jing	PASS _{Note1}	No deviation



24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)					
2.1053 22.917(a) 24.238(a) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Jan. 19 to 22, 2024	Gao Jianrou	PASS ^{Note1}	No deviation

Note 1: The test results of these test items in this report refer to the test report (Report No.: SZ23080316W04).

Note 2: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 3: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipment. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.

Note 4: 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 5: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.5. Environmental Conditions

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

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



2.47 CFR Part 2, Part 22H, Part 24E, Part 27 F&H&L&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 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

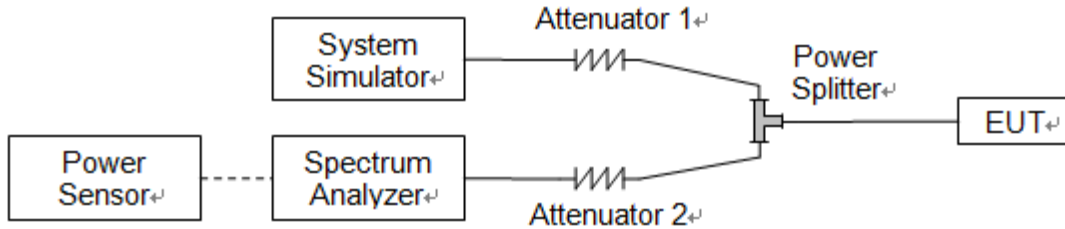
According to FCC section 22.913 (a)(2) for LTE Band 5, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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

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

2.1.2. Test Description



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

2.1.3. Test Procedure

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

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

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



2.1.4. Result

Conducted Output Power

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.87	22.93	22.84
20	QPSK	1	49	22.81	22.82	22.65
20	QPSK	1	99	22.74	22.79	22.61
20	QPSK	50	0	21.81	21.87	21.79
20	QPSK	50	24	21.78	21.72	21.60
20	QPSK	50	50	21.70	21.61	21.66
20	QPSK	100	0	21.74	21.65	21.61
20	16QAM	1	0	21.98	22.01	21.97
20	16QAM	1	49	21.94	21.93	21.88
20	16QAM	1	99	21.95	21.89	21.90
20	16QAM	50	0	20.77	20.76	20.74
20	16QAM	50	24	20.73	20.69	20.70
20	16QAM	50	50	20.65	20.58	20.60
20	16QAM	100	0	20.68	20.63	20.61
20	64QAM	1	0	20.80	20.98	20.75
20	64QAM	1	49	20.76	20.78	20.71
20	64QAM	1	99	20.71	20.73	20.67
20	64QAM	50	0	19.70	19.73	19.65
20	64QAM	50	24	19.64	19.66	19.50
20	64QAM	50	50	19.57	19.60	19.55
20	64QAM	100	0	19.56	19.63	19.58



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	22.82	22.89	22.77
15	QPSK	1	37	22.68	22.71	22.52
15	QPSK	1	74	22.65	22.54	22.60
15	QPSK	36	0	21.75	21.80	21.76
15	QPSK	36	20	21.78	21.68	21.63
15	QPSK	36	39	21.55	21.60	21.57
15	QPSK	75	0	21.68	21.74	21.53
15	16QAM	1	0	21.99	22.02	21.94
15	16QAM	1	37	21.91	21.90	21.83
15	16QAM	1	74	21.97	21.81	21.82
15	16QAM	36	0	20.86	20.66	20.70
15	16QAM	36	20	20.63	20.55	20.79
15	16QAM	36	39	20.70	20.53	20.62
15	16QAM	75	0	20.63	20.60	20.60
15	64QAM	1	0	20.81	20.94	20.79
15	64QAM	1	37	20.86	20.77	20.62
15	64QAM	1	74	20.75	20.68	20.66
15	64QAM	36	0	19.67	19.81	19.55
15	64QAM	36	20	19.57	19.52	19.55
15	64QAM	36	39	19.65	19.63	19.64
15	64QAM	75	0	19.53	19.73	19.58



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	22.75	22.86	22.79
10	QPSK	1	25	22.73	22.80	22.67
10	QPSK	1	49	22.61	22.58	22.53
10	QPSK	25	0	21.78	21.80	21.53
10	QPSK	25	12	21.74	21.57	21.57
10	QPSK	25	25	21.63	21.64	21.54
10	QPSK	50	0	21.61	21.66	21.54
10	16QAM	1	0	21.97	22.03	21.89
10	16QAM	1	25	21.94	21.96	21.90
10	16QAM	1	49	21.95	21.75	21.85
10	16QAM	25	0	20.69	20.66	20.71
10	16QAM	25	12	20.70	20.63	20.78
10	16QAM	25	25	20.71	20.67	20.64
10	16QAM	50	0	20.70	20.60	20.69
10	64QAM	1	0	20.84	20.79	20.60
10	64QAM	1	25	20.74	20.88	20.75
10	64QAM	1	49	20.63	20.63	20.68
10	64QAM	25	0	19.69	19.79	19.64
10	64QAM	25	12	19.69	19.74	19.61
10	64QAM	25	25	19.57	19.64	19.59
10	64QAM	50	0	19.63	19.66	19.62



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	22.79	22.85	22.68
5	QPSK	1	12	22.70	22.73	22.73
5	QPSK	1	24	22.69	22.56	22.50
5	QPSK	12	0	21.83	21.76	21.63
5	QPSK	12	7	21.72	21.62	21.61
5	QPSK	12	13	21.59	21.64	21.65
5	QPSK	25	0	21.63	21.69	21.67
5	16QAM	1	0	22.00	22.00	21.86
5	16QAM	1	12	21.94	21.93	21.85
5	16QAM	1	24	21.96	21.75	21.79
5	16QAM	12	0	20.73	20.82	20.66
5	16QAM	12	7	20.74	20.75	20.66
5	16QAM	12	13	20.62	20.55	20.60
5	16QAM	25	0	20.60	20.61	20.62
5	64QAM	1	0	20.80	20.67	20.62
5	64QAM	1	12	20.79	20.79	20.71
5	64QAM	1	24	20.65	20.76	20.69
5	64QAM	12	0	19.64	19.73	19.75
5	64QAM	12	7	19.62	19.68	19.59
5	64QAM	12	13	19.57	19.69	19.58
5	64QAM	25	0	19.62	19.72	19.67



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	22.78	22.86	22.65
3	QPSK	1	8	22.71	22.79	22.61
3	QPSK	1	14	22.65	22.68	22.57
3	QPSK	8	0	21.92	21.84	21.76
3	QPSK	8	4	21.83	21.76	21.56
3	QPSK	8	7	21.69	21.64	21.59
3	QPSK	15	0	21.74	21.67	21.58
3	16QAM	1	0	21.99	21.98	21.83
3	16QAM	1	8	21.93	21.92	21.86
3	16QAM	1	14	21.98	21.86	21.76
3	16QAM	8	0	20.66	20.66	20.59
3	16QAM	8	4	20.72	20.55	20.74
3	16QAM	8	7	20.63	20.56	20.52
3	16QAM	15	0	20.55	20.57	20.56
3	64QAM	1	0	20.69	20.72	20.83
3	64QAM	1	8	20.66	20.70	20.62
3	64QAM	1	14	20.80	20.80	20.57
3	64QAM	8	0	19.55	19.79	19.70
3	64QAM	8	4	19.71	19.54	19.60
3	64QAM	8	7	19.50	19.51	19.54
3	64QAM	15	0	19.54	19.61	19.66



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	22.77	22.84	22.72
1.4	QPSK	1	3	22.69	22.60	22.53
1.4	QPSK	1	5	22.68	22.67	22.55
1.4	QPSK	3	0	21.79	21.89	21.74
1.4	QPSK	3	1	21.75	21.78	21.72
1.4	QPSK	3	3	21.77	21.73	21.70
1.4	QPSK	6	0	21.64	21.69	21.64
1.4	16QAM	1	0	21.97	22.01	21.95
1.4	16QAM	1	3	21.91	21.93	21.81
1.4	16QAM	1	5	21.91	21.87	21.96
1.4	16QAM	3	0	20.85	20.63	20.61
1.4	16QAM	3	1	20.76	20.61	20.60
1.4	16QAM	3	3	20.73	20.59	20.69
1.4	16QAM	6	0	20.70	20.59	20.64
1.4	64QAM	1	0	20.82	20.69	20.60
1.4	64QAM	1	3	20.84	20.63	20.67
1.4	64QAM	1	5	20.74	20.73	20.72
1.4	64QAM	3	0	19.59	19.67	19.70
1.4	64QAM	3	1	19.54	19.55	19.69
1.4	64QAM	3	3	19.67	19.62	19.62
1.4	64QAM	6	0	19.59	19.55	19.56



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	22.79	22.86	22.81
20	QPSK	1	49	22.77	22.75	22.75
20	QPSK	1	99	22.69	22.80	22.71
20	QPSK	50	0	21.81	21.90	21.84
20	QPSK	50	24	21.87	21.70	21.69
20	QPSK	50	50	21.73	21.76	21.63
20	QPSK	100	0	21.69	21.72	21.78
20	16QAM	1	0	21.95	22.10	21.99
20	16QAM	1	49	21.96	22.03	21.88
20	16QAM	1	99	21.88	21.99	21.95
20	16QAM	50	0	20.87	20.90	20.70
20	16QAM	50	24	20.74	20.68	20.76
20	16QAM	50	50	20.63	20.70	20.74
20	16QAM	100	0	20.55	20.82	20.64
20	64QAM	1	0	20.86	21.01	20.87
20	64QAM	1	49	20.73	20.74	20.90
20	64QAM	1	99	20.75	20.74	20.87
20	64QAM	50	0	19.75	19.84	19.82
20	64QAM	50	24	19.69	19.83	19.61
20	64QAM	50	50	19.66	19.64	19.65
20	64QAM	100	0	19.65	19.79	19.70



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	22.81	22.83	22.75
15	QPSK	1	37	22.79	22.79	22.71
15	QPSK	1	74	22.64	22.75	22.70
15	QPSK	36	0	21.85	21.88	21.70
15	QPSK	36	20	21.67	21.87	21.64
15	QPSK	36	39	21.72	21.59	21.55
15	QPSK	75	0	21.74	21.73	21.76
15	16QAM	1	0	21.99	22.07	21.96
15	16QAM	1	37	21.89	22.05	21.87
15	16QAM	1	74	21.98	21.85	22.01
15	16QAM	36	0	20.86	20.91	20.70
15	16QAM	36	20	20.65	20.70	20.65
15	16QAM	36	39	20.53	20.77	20.72
15	16QAM	75	0	20.67	20.83	20.60
15	64QAM	1	0	20.76	20.85	20.84
15	64QAM	1	37	20.68	20.78	20.79
15	64QAM	1	74	20.67	20.75	20.68
15	64QAM	36	0	19.73	19.83	19.73
15	64QAM	36	20	19.53	19.78	19.59
15	64QAM	36	39	19.56	19.56	19.72
15	64QAM	75	0	19.48	19.82	19.76



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	22.77	22.81	22.74
10	QPSK	1	25	22.74	22.65	22.61
10	QPSK	1	49	22.67	22.75	22.61
10	QPSK	25	0	21.85	21.90	21.61
10	QPSK	25	12	21.82	21.78	21.68
10	QPSK	25	25	21.59	21.66	21.75
10	QPSK	50	0	21.76	21.79	21.75
10	16QAM	1	0	22.02	22.06	21.95
10	16QAM	1	25	22.05	21.97	21.84
10	16QAM	1	49	22.04	22.03	21.97
10	16QAM	25	0	20.73	20.89	20.83
10	16QAM	25	12	20.74	20.66	20.66
10	16QAM	25	25	20.62	20.65	20.78
10	16QAM	50	0	20.61	20.73	20.60
10	64QAM	1	0	20.85	20.89	20.84
10	64QAM	1	25	20.83	20.84	20.82
10	64QAM	1	49	20.66	20.81	20.85
10	64QAM	25	0	19.79	19.83	19.79
10	64QAM	25	12	19.71	19.75	19.59
10	64QAM	25	25	19.64	19.65	19.65
10	64QAM	50	0	19.50	19.66	19.75



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	22.76	22.80	22.73
5	QPSK	1	12	22.74	22.75	22.67
5	QPSK	1	24	22.72	22.74	22.60
5	QPSK	12	0	21.84	21.99	21.73
5	QPSK	12	7	21.64	21.74	21.64
5	QPSK	12	13	21.69	21.61	21.65
5	QPSK	25	0	21.79	21.78	21.64
5	16QAM	1	0	22.03	22.08	21.95
5	16QAM	1	12	22.07	21.98	22.07
5	16QAM	1	24	21.85	21.93	21.99
5	16QAM	12	0	20.77	20.77	20.87
5	16QAM	12	7	20.74	20.84	20.83
5	16QAM	12	13	20.59	20.78	20.57
5	16QAM	25	0	20.56	20.71	20.74
5	64QAM	1	0	20.78	20.86	20.80
5	64QAM	1	12	20.77	20.91	20.74
5	64QAM	1	24	20.57	20.74	20.65
5	64QAM	12	0	19.75	19.91	19.80
5	64QAM	12	7	19.59	19.84	19.59
5	64QAM	12	13	19.54	19.80	19.60
5	64QAM	25	0	19.55	19.60	19.63



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.78	22.82	22.76
3	QPSK	1	8	22.66	22.78	22.73
3	QPSK	1	14	22.67	22.66	22.70
3	QPSK	8	0	21.83	21.80	21.61
3	QPSK	8	4	21.88	21.88	21.63
3	QPSK	8	7	21.74	21.66	21.59
3	QPSK	15	0	21.67	21.84	21.72
3	16QAM	1	0	22.05	22.07	22.03
3	16QAM	1	8	22.00	21.91	22.04
3	16QAM	1	14	21.96	22.01	21.97
3	16QAM	8	0	20.68	20.78	20.84
3	16QAM	8	4	20.71	20.76	20.82
3	16QAM	8	7	20.60	20.59	20.72
3	16QAM	15	0	20.57	20.74	20.68
3	64QAM	1	0	20.85	20.89	20.81
3	64QAM	1	8	20.63	20.83	20.81
3	64QAM	1	14	20.80	20.71	20.78
3	64QAM	8	0	19.79	19.86	19.68
3	64QAM	8	4	19.61	19.85	19.60
3	64QAM	8	7	19.55	19.59	19.69
3	64QAM	15	0	19.53	19.64	19.75



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	22.73	22.80	22.72
1.4	QPSK	1	3	22.75	22.74	22.69
1.4	QPSK	1	5	22.67	22.68	22.64
1.4	QPSK	3	0	21.78	21.98	21.75
1.4	QPSK	3	1	21.88	21.80	21.74
1.4	QPSK	3	3	21.75	21.79	21.70
1.4	QPSK	6	0	21.64	21.68	21.64
1.4	16QAM	1	0	22.03	22.07	22.04
1.4	16QAM	1	3	22.08	21.99	21.83
1.4	16QAM	1	5	22.02	22.04	21.87
1.4	16QAM	3	0	20.64	20.74	20.85
1.4	16QAM	3	1	20.62	20.64	20.74
1.4	16QAM	3	3	20.59	20.64	20.69
1.4	16QAM	6	0	20.73	20.60	20.72
1.4	64QAM	1	0	20.82	20.97	20.90
1.4	64QAM	1	3	20.71	20.97	20.80
1.4	64QAM	1	5	20.62	20.90	20.66
1.4	64QAM	3	0	19.67	19.69	19.72
1.4	64QAM	3	1	19.71	19.72	19.56
1.4	64QAM	3	3	19.55	19.79	19.53
1.4	64QAM	6	0	19.56	19.59	19.63



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	22.98	23.05	23.01
10	QPSK	1	25	23.00	22.99	22.86
10	QPSK	1	49	22.93	22.91	22.85
10	QPSK	25	0	21.95	21.97	21.92
10	QPSK	25	12	21.90	21.97	21.79
10	QPSK	25	25	21.86	21.86	21.78
10	QPSK	50	0	21.86	21.85	21.78
10	16QAM	1	0	22.37	22.27	22.17
10	16QAM	1	25	22.20	22.22	22.18
10	16QAM	1	49	22.16	22.19	22.24
10	16QAM	25	0	20.98	21.08	21.11
10	16QAM	25	12	20.85	21.05	21.03
10	16QAM	25	25	20.89	20.88	20.86
10	16QAM	50	0	20.92	20.99	20.91
10	64QAM	1	0	20.94	21.15	20.98
10	64QAM	1	25	20.81	21.04	20.94
10	64QAM	1	49	20.97	20.95	21.03
10	64QAM	25	0	19.81	20.05	19.81
10	64QAM	25	12	19.69	19.98	19.72
10	64QAM	25	25	19.71	19.96	19.70
10	64QAM	50	0	19.62	19.79	19.89



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	23.00	23.01	22.95
5	QPSK	1	12	22.94	22.98	22.99
5	QPSK	1	24	22.88	22.85	22.90
5	QPSK	12	0	22.13	22.19	22.03
5	QPSK	12	7	22.02	22.05	21.95
5	QPSK	12	13	21.81	21.96	21.83
5	QPSK	25	0	21.94	22.03	22.00
5	16QAM	1	0	22.16	22.25	22.25
5	16QAM	1	12	22.30	22.13	22.21
5	16QAM	1	24	22.02	22.20	22.17
5	16QAM	12	0	21.03	21.00	21.07
5	16QAM	12	7	20.93	20.97	21.08
5	16QAM	12	13	20.81	20.85	20.85
5	16QAM	25	0	20.79	20.80	20.88
5	64QAM	1	0	20.94	20.99	21.10
5	64QAM	1	12	20.88	20.96	20.88
5	64QAM	1	24	20.80	21.04	21.01
5	64QAM	12	0	19.78	19.96	19.97
5	64QAM	12	7	19.88	20.00	19.80
5	64QAM	12	13	19.65	19.79	19.81
5	64QAM	25	0	19.66	19.79	19.83



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	23.01	23.02	22.88
3	QPSK	1	8	23.00	22.97	22.93
3	QPSK	1	14	22.97	22.85	22.78
3	QPSK	8	0	21.99	22.08	21.91
3	QPSK	8	4	21.96	21.91	21.87
3	QPSK	8	7	21.82	21.87	21.80
3	QPSK	15	0	21.81	21.99	21.93
3	16QAM	1	0	22.25	22.33	22.15
3	16QAM	1	8	22.19	22.22	22.04
3	16QAM	1	14	22.00	22.25	22.09
3	16QAM	8	0	20.83	20.93	20.97
3	16QAM	8	4	20.93	20.95	20.99
3	16QAM	8	7	20.85	20.82	20.90
3	16QAM	15	0	20.84	20.81	20.87
3	64QAM	1	0	20.89	21.04	21.09
3	64QAM	1	8	20.81	21.06	21.04
3	64QAM	1	14	20.87	21.02	20.83
3	64QAM	8	0	19.98	20.10	20.00
3	64QAM	8	4	19.81	19.93	19.82
3	64QAM	8	7	19.87	19.94	19.84
3	64QAM	15	0	19.72	19.99	19.84



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.95	23.00	22.93
1.4	QPSK	1	3	22.91	22.85	22.90
1.4	QPSK	1	5	22.89	22.92	22.81
1.4	QPSK	3	0	22.03	22.09	21.84
1.4	QPSK	3	1	22.08	21.90	21.84
1.4	QPSK	3	3	21.82	22.01	21.81
1.4	QPSK	6	0	21.90	21.87	21.95
1.4	16QAM	1	0	22.16	22.37	22.25
1.4	16QAM	1	3	22.34	22.21	22.04
1.4	16QAM	1	5	22.09	22.15	22.09
1.4	16QAM	3	0	20.82	21.11	21.12
1.4	16QAM	3	1	20.83	21.03	21.08
1.4	16QAM	3	3	20.81	20.89	20.88
1.4	16QAM	6	0	20.91	20.97	20.83
1.4	64QAM	1	0	21.09	21.17	21.07
1.4	64QAM	1	3	20.94	21.13	20.93
1.4	64QAM	1	5	20.93	20.88	21.03
1.4	64QAM	3	0	19.89	20.08	20.03
1.4	64QAM	3	1	19.91	19.95	19.81
1.4	64QAM	3	3	19.85	20.00	19.83
1.4	64QAM	6	0	19.85	20.02	19.93



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	22.70	22.74	22.93
20	QPSK	1	49	22.55	22.65	22.90
20	QPSK	1	99	22.62	22.59	22.79
20	QPSK	50	0	21.71	21.75	21.88
20	QPSK	50	24	21.51	21.56	21.76
20	QPSK	50	50	21.56	21.58	21.81
20	QPSK	100	0	21.51	21.54	21.79
20	16QAM	1	0	21.83	21.87	22.04
20	16QAM	1	49	21.85	21.82	21.96
20	16QAM	1	99	21.82	21.76	21.95
20	16QAM	50	0	20.63	20.60	20.86
20	16QAM	50	24	20.59	20.71	20.83
20	16QAM	50	50	20.53	20.55	20.69
20	16QAM	100	0	20.62	20.51	20.77
20	64QAM	1	0	20.68	20.71	20.99
20	64QAM	1	49	20.62	20.62	21.00
20	64QAM	1	99	20.66	20.63	20.81
20	64QAM	50	0	19.61	19.72	19.86
20	64QAM	50	24	19.58	19.69	19.70
20	64QAM	50	50	19.53	19.54	19.83
20	64QAM	100	0	19.56	19.58	19.72



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	22.68	22.70	22.90
15	QPSK	1	37	22.60	22.59	22.85
15	QPSK	1	74	22.55	22.61	22.74
15	QPSK	36	0	21.75	21.77	21.85
15	QPSK	36	20	21.54	21.54	21.76
15	QPSK	36	39	21.56	21.59	21.82
15	QPSK	75	0	21.64	21.58	21.80
15	16QAM	1	0	21.99	21.98	22.03
15	16QAM	1	37	21.97	21.78	21.93
15	16QAM	1	74	21.73	21.94	22.01
15	16QAM	36	0	20.63	20.62	20.87
15	16QAM	36	20	20.68	20.62	20.75
15	16QAM	36	39	20.55	20.53	20.85
15	16QAM	75	0	20.60	20.56	20.75
15	64QAM	1	0	20.74	20.82	20.94
15	64QAM	1	37	20.63	20.75	21.05
15	64QAM	1	74	20.68	20.59	20.81
15	64QAM	36	0	19.55	19.72	19.83
15	64QAM	36	20	19.47	19.50	19.65
15	64QAM	36	39	19.59	19.53	19.73
15	64QAM	75	0	19.55	19.57	19.68



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	22.61	22.69	22.89
10	QPSK	1	25	22.59	22.53	22.80
10	QPSK	1	49	22.60	22.57	22.72
10	QPSK	25	0	21.72	21.74	21.86
10	QPSK	25	12	21.65	21.73	21.84
10	QPSK	25	25	21.57	21.65	21.69
10	QPSK	50	0	21.62	21.56	21.68
10	16QAM	1	0	21.88	21.95	22.09
10	16QAM	1	25	21.80	21.87	22.08
10	16QAM	1	49	21.71	21.69	22.05
10	16QAM	25	0	20.68	20.75	20.90
10	16QAM	25	12	20.53	20.55	20.89
10	16QAM	25	25	20.56	20.61	20.89
10	16QAM	50	0	20.53	20.59	20.85
10	64QAM	1	0	20.66	20.69	20.83
10	64QAM	1	25	20.59	20.75	20.82
10	64QAM	1	49	20.60	20.67	20.89
10	64QAM	25	0	19.61	19.75	19.80
10	64QAM	25	12	19.60	19.69	19.64
10	64QAM	25	25	19.55	19.55	19.70
10	64QAM	50	0	19.52	19.56	19.67



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	22.68	22.71	22.86
5	QPSK	1	12	22.61	22.63	22.84
5	QPSK	1	24	22.65	22.62	22.78
5	QPSK	12	0	21.67	21.72	21.84
5	QPSK	12	7	21.71	21.69	21.82
5	QPSK	12	13	21.55	21.60	21.68
5	QPSK	25	0	21.61	21.68	21.74
5	16QAM	1	0	21.85	21.89	22.05
5	16QAM	1	12	21.79	21.78	22.03
5	16QAM	1	24	21.86	21.72	21.99
5	16QAM	12	0	20.58	20.63	20.86
5	16QAM	12	7	20.51	20.53	20.81
5	16QAM	12	13	20.60	20.58	20.67
5	16QAM	25	0	20.57	20.53	20.77
5	64QAM	1	0	20.71	20.72	20.83
5	64QAM	1	12	20.62	20.70	20.78
5	64QAM	1	24	20.55	20.67	20.79
5	64QAM	12	0	19.65	19.58	19.88
5	64QAM	12	7	19.53	19.56	19.79
5	64QAM	12	13	19.53	19.55	19.60
5	64QAM	25	0	19.59	19.68	19.69



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	24.07	24.12	24.09
10	QPSK	1	25	23.87	23.89	23.84
10	QPSK	1	49	23.90	24.02	24.05
10	QPSK	25	0	23.06	23.15	23.10
10	QPSK	25	12	22.86	23.01	22.91
10	QPSK	25	25	22.87	22.95	22.91
10	QPSK	50	0	22.79	22.98	22.91
10	16QAM	1	0	23.22	23.33	23.18
10	16QAM	1	25	23.05	23.07	23.05
10	16QAM	1	49	23.10	23.23	23.00
10	16QAM	25	0	21.77	22.00	21.84
10	16QAM	25	12	21.73	22.04	22.00
10	16QAM	25	25	21.84	21.71	21.82
10	16QAM	50	0	21.78	21.89	21.78
10	64QAM	1	0	21.78	22.15	21.86
10	64QAM	1	25	21.86	22.13	22.00
10	64QAM	1	49	21.91	21.89	21.80
10	64QAM	25	0	20.86	21.02	20.85
10	64QAM	25	12	20.81	20.82	20.90
10	64QAM	25	25	20.72	20.87	20.85
10	64QAM	50	0	20.72	20.74	20.78



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	23.99	24.07	24.01
5	QPSK	1	12	23.91	24.01	23.93
5	QPSK	1	24	23.93	23.83	23.87
5	QPSK	12	0	22.82	23.02	22.96
5	QPSK	12	7	22.79	22.98	22.92
5	QPSK	12	13	22.79	22.74	22.83
5	QPSK	25	0	22.70	22.79	22.84
5	16QAM	1	0	23.06	23.27	23.22
5	16QAM	1	12	23.16	23.23	23.03
5	16QAM	1	24	23.14	23.14	23.07
5	16QAM	12	0	21.79	22.06	21.87
5	16QAM	12	7	21.82	21.89	21.88
5	16QAM	12	13	21.81	21.79	21.81
5	16QAM	25	0	21.82	21.81	21.80
5	64QAM	1	0	21.85	22.06	22.00
5	64QAM	1	12	21.80	22.08	21.97
5	64QAM	1	24	21.86	22.07	21.82
5	64QAM	12	0	20.89	21.04	20.99
5	64QAM	12	7	20.83	20.86	20.83
5	64QAM	12	13	20.77	20.78	20.67
5	64QAM	25	0	20.65	20.83	20.82



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	24.02	24.09	24.05
3	QPSK	1	8	23.97	24.05	24.00
3	QPSK	1	14	23.75	23.90	23.73
3	QPSK	8	0	23.01	23.06	22.95
3	QPSK	8	4	22.88	22.87	22.79
3	QPSK	8	7	22.88	22.82	22.74
3	QPSK	15	0	22.79	22.85	22.82
3	16QAM	1	0	23.22	23.21	23.26
3	16QAM	1	8	23.03	23.06	23.05
3	16QAM	1	14	23.05	23.24	23.14
3	16QAM	8	0	21.75	22.07	21.95
3	16QAM	8	4	21.89	21.83	21.96
3	16QAM	8	7	21.83	21.84	21.71
3	16QAM	15	0	21.69	21.73	21.71
3	64QAM	1	0	21.97	22.02	21.92
3	64QAM	1	8	21.89	22.13	21.90
3	64QAM	1	14	21.83	21.90	22.02
3	64QAM	8	0	20.76	20.91	20.85
3	64QAM	8	4	20.65	20.93	20.75
3	64QAM	8	7	20.72	20.79	20.68
3	64QAM	15	0	20.84	20.90	20.93



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	24.03	24.08	23.99
1.4	QPSK	1	3	23.89	23.98	23.89
1.4	QPSK	1	5	23.81	23.87	23.76
1.4	QPSK	3	0	22.86	23.00	22.96
1.4	QPSK	3	1	22.80	23.05	22.90
1.4	QPSK	3	3	22.80	22.88	22.91
1.4	QPSK	6	0	22.80	22.99	22.88
1.4	16QAM	1	0	23.07	23.24	23.17
1.4	16QAM	1	3	23.08	23.03	23.08
1.4	16QAM	1	5	22.90	23.15	23.03
1.4	16QAM	3	0	21.91	22.04	22.01
1.4	16QAM	3	1	21.90	21.90	21.92
1.4	16QAM	3	3	21.85	21.84	21.87
1.4	16QAM	6	0	21.78	21.92	21.75
1.4	64QAM	1	0	21.98	21.91	22.00
1.4	64QAM	1	3	21.72	22.03	21.98
1.4	64QAM	1	5	21.72	21.92	21.98
1.4	64QAM	3	0	20.89	21.06	20.88
1.4	64QAM	3	1	20.91	20.83	20.81
1.4	64QAM	3	3	20.83	20.82	20.84
1.4	64QAM	6	0	20.74	20.94	20.69



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	/	24.03	/
10	QPSK	1	25	/	23.95	/
10	QPSK	1	49	/	23.88	/
10	QPSK	25	0	/	22.96	/
10	QPSK	25	12	/	22.84	/
10	QPSK	25	25	/	22.88	/
10	QPSK	50	0	/	22.74	/
10	16QAM	1	0	/	23.11	/
10	16QAM	1	25	/	23.03	/
10	16QAM	1	49	/	22.98	/
10	16QAM	25	0	/	21.94	/
10	16QAM	25	12	/	21.90	/
10	16QAM	25	25	/	21.80	/
10	16QAM	50	0	/	21.99	/
10	64QAM	1	0	/	21.95	/
10	64QAM	1	25	/	21.87	/
10	64QAM	1	49	/	21.96	/
10	64QAM	25	0	/	20.92	/
10	64QAM	25	12	/	20.75	/
10	64QAM	25	25	/	20.84	/
10	64QAM	50	0	/	20.78	/



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.94	23.99	23.92
5	QPSK	1	12	23.89	23.96	23.88
5	QPSK	1	24	23.73	23.84	23.86
5	QPSK	12	0	22.83	23.08	22.96
5	QPSK	12	7	22.83	23.01	22.95
5	QPSK	12	13	22.77	22.85	22.79
5	QPSK	25	0	22.81	22.77	22.83
5	16QAM	1	0	23.22	23.15	23.07
5	16QAM	1	12	23.22	23.15	23.23
5	16QAM	1	24	23.14	23.19	23.03
5	16QAM	12	0	21.88	21.90	22.00
5	16QAM	12	7	21.85	22.02	21.84
5	16QAM	12	13	21.84	21.78	21.87
5	16QAM	25	0	21.67	21.79	21.74
5	64QAM	1	0	21.77	21.93	22.02
5	64QAM	1	12	21.71	22.05	22.02
5	64QAM	1	24	21.79	21.91	21.92
5	64QAM	12	0	20.88	20.91	20.95
5	64QAM	12	7	20.79	20.87	20.85
5	64QAM	12	13	20.75	20.70	20.80
5	64QAM	25	0	20.72	20.93	20.87



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	22.85	22.97	22.93
20	QPSK	1	49	22.79	22.91	22.86
20	QPSK	1	99	22.68	22.89	22.74
20	QPSK	50	0	21.83	21.92	21.87
20	QPSK	50	24	21.83	21.91	21.82
20	QPSK	50	50	21.85	21.75	21.77
20	QPSK	100	0	21.75	21.82	21.83
20	16QAM	1	0	21.98	22.07	22.06
20	16QAM	1	49	22.02	21.95	21.89
20	16QAM	1	99	21.87	21.96	22.03
20	16QAM	50	0	20.88	20.95	20.90
20	16QAM	50	24	20.70	20.87	20.95
20	16QAM	50	50	20.71	20.77	20.73
20	16QAM	100	0	20.70	20.73	20.75
20	64QAM	1	0	20.81	20.92	20.85
20	64QAM	1	49	20.75	20.89	20.92
20	64QAM	1	99	20.67	20.88	20.82
20	64QAM	50	0	19.72	19.86	19.82
20	64QAM	50	24	19.57	19.78	19.69
20	64QAM	50	50	19.71	19.82	19.59
20	64QAM	100	0	19.59	19.82	19.84



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	22.81	22.94	22.90
15	QPSK	1	37	22.72	22.83	22.68
15	QPSK	1	74	22.71	22.66	22.63
15	QPSK	36	0	21.78	21.96	21.87
15	QPSK	36	20	21.80	21.78	21.70
15	QPSK	36	39	21.70	21.86	21.73
15	QPSK	75	0	21.74	21.73	21.75
15	16QAM	1	0	22.01	22.09	22.05
15	16QAM	1	37	22.03	22.00	21.91
15	16QAM	1	74	21.97	21.96	22.06
15	16QAM	36	0	20.83	20.93	20.95
15	16QAM	36	20	20.78	20.86	20.78
15	16QAM	36	39	20.73	20.81	20.85
15	16QAM	75	0	20.66	20.78	20.82
15	64QAM	1	0	20.84	20.97	20.90
15	64QAM	1	37	20.67	20.91	20.80
15	64QAM	1	74	20.73	20.84	20.82
15	64QAM	36	0	19.84	19.90	19.85
15	64QAM	36	20	19.63	19.67	19.57
15	64QAM	36	39	19.72	19.61	19.74
15	64QAM	75	0	19.68	19.79	19.59



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	22.84	22.90	22.86
10	QPSK	1	25	22.83	22.86	22.72
10	QPSK	1	49	22.73	22.85	22.61
10	QPSK	25	0	21.79	21.93	21.90
10	QPSK	25	12	21.86	21.83	21.71
10	QPSK	25	25	21.63	21.72	21.80
10	QPSK	50	0	21.75	21.77	21.83
10	16QAM	1	0	22.02	22.10	22.09
10	16QAM	1	25	21.92	22.03	21.96
10	16QAM	1	49	21.94	22.04	22.07
10	16QAM	25	0	20.78	20.96	20.92
10	16QAM	25	12	20.71	20.88	20.95
10	16QAM	25	25	21.69	20.66	20.71
10	16QAM	50	0	20.84	20.70	20.80
10	64QAM	1	0	20.79	20.87	20.89
10	64QAM	1	25	20.87	20.90	20.79
10	64QAM	1	49	20.71	20.97	20.69
10	64QAM	25	0	19.79	19.87	19.84
10	64QAM	25	12	19.72	19.79	19.63
10	64QAM	25	25	19.62	19.68	19.81
10	64QAM	50	0	19.66	19.73	19.76



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	22.79	22.91	22.85
5	QPSK	1	12	22.73	22.90	22.75
5	QPSK	1	24	22.79	22.80	22.63
5	QPSK	12	0	21.90	21.94	21.90
5	QPSK	12	7	21.84	21.93	21.69
5	QPSK	12	13	21.72	21.74	21.71
5	QPSK	25	0	21.83	21.88	21.66
5	16QAM	1	0	22.08	22.10	22.07
5	16QAM	1	12	21.96	22.03	22.02
5	16QAM	1	24	22.03	22.05	21.96
5	16QAM	12	0	20.85	20.81	20.79
5	16QAM	12	7	20.82	20.91	20.71
5	16QAM	12	13	20.75	20.74	20.65
5	16QAM	25	0	20.66	20.88	20.63
5	64QAM	1	0	20.96	20.91	20.86
5	64QAM	1	12	20.92	20.84	20.80
5	64QAM	1	24	20.79	20.79	20.73
5	64QAM	12	0	19.61	19.84	19.77
5	64QAM	12	7	19.78	19.67	19.56
5	64QAM	12	13	19.64	19.70	19.57
5	64QAM	25	0	19.59	19.80	19.80



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	22.83	22.92	22.87
3	QPSK	1	8	22.86	22.85	22.81
3	QPSK	1	14	22.76	22.66	22.64
3	QPSK	8	0	21.90	21.92	21.77
3	QPSK	8	4	21.71	21.78	21.79
3	QPSK	8	7	21.64	21.73	21.65
3	QPSK	15	0	21.88	21.87	21.70
3	16QAM	1	0	22.05	22.10	21.98
3	16QAM	1	8	21.99	22.08	21.93
3	16QAM	1	14	21.86	21.99	21.98
3	16QAM	8	0	20.82	20.78	20.87
3	16QAM	8	4	20.87	20.92	20.80
3	16QAM	8	7	20.67	20.60	20.82
3	16QAM	15	0	20.82	20.65	20.66
3	64QAM	1	0	20.92	21.06	20.92
3	64QAM	1	8	20.82	20.93	20.72
3	64QAM	1	14	20.77	20.97	20.72
3	64QAM	8	0	19.68	19.99	19.80
3	64QAM	8	4	19.63	19.90	19.65
3	64QAM	8	7	19.66	19.75	19.67
3	64QAM	15	0	19.64	19.64	19.65



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	22.84	22.89	22.81
1.4	QPSK	1	3	22.87	22.82	22.67
1.4	QPSK	1	5	22.71	22.77	22.62
1.4	QPSK	3	0	21.86	21.86	21.89
1.4	QPSK	3	1	21.81	21.85	21.81
1.4	QPSK	3	3	21.79	21.77	21.80
1.4	QPSK	6	0	21.77	21.70	21.65
1.4	16QAM	1	0	22.00	22.08	22.02
1.4	16QAM	1	3	22.06	22.07	22.01
1.4	16QAM	1	5	22.00	21.93	22.05
1.4	16QAM	3	0	20.78	20.89	20.84
1.4	16QAM	3	1	20.76	20.92	20.96
1.4	16QAM	3	3	20.79	20.86	20.81
1.4	16QAM	6	0	20.84	20.83	20.67
1.4	64QAM	1	0	20.72	20.89	20.77
1.4	64QAM	1	3	20.84	20.86	20.72
1.4	64QAM	1	5	20.72	20.89	20.84
1.4	64QAM	3	0	19.82	19.86	19.74
1.4	64QAM	3	1	19.60	19.90	19.54
1.4	64QAM	3	3	19.55	19.82	19.59
1.4	64QAM	6	0	19.59	19.64	19.77



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	24.27	0.267	24.33	0.271	24.24	0.265
20	QPSK	1	49	24.21	0.264	24.22	0.264	24.05	0.254
20	QPSK	1	99	24.14	0.259	24.19	0.262	24.01	0.252
20	QPSK	50	0	23.21	0.209	23.27	0.212	23.19	0.208
20	QPSK	50	24	23.18	0.208	23.12	0.205	23.00	0.200
20	QPSK	50	50	23.10	0.204	23.01	0.200	23.06	0.202
20	QPSK	100	0	23.14	0.206	23.05	0.202	23.01	0.200
20	16QAM	1	0	23.38	0.218	23.41	0.219	23.37	0.217
20	16QAM	1	49	23.34	0.216	23.33	0.215	23.28	0.213
20	16QAM	1	99	23.35	0.216	23.29	0.213	23.30	0.214
20	16QAM	50	0	22.17	0.165	22.16	0.164	22.14	0.164
20	16QAM	50	24	22.13	0.163	22.09	0.162	22.10	0.162
20	16QAM	50	50	22.05	0.160	21.98	0.158	22.00	0.158
20	16QAM	100	0	22.08	0.161	22.03	0.160	22.01	0.159
20	64QAM	1	0	22.20	0.166	22.38	0.173	22.15	0.164
20	64QAM	1	49	22.16	0.164	22.18	0.165	22.11	0.163
20	64QAM	1	99	22.11	0.163	22.13	0.163	22.07	0.161
20	64QAM	50	0	21.10	0.129	21.13	0.130	21.05	0.127
20	64QAM	50	24	21.04	0.127	21.06	0.128	20.90	0.123
20	64QAM	50	50	20.97	0.125	21.00	0.126	20.95	0.124
20	64QAM	100	0	20.96	0.125	21.03	0.127	20.98	0.125



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	24.22	0.264	24.29	0.269	24.17	0.261
15	QPSK	1	37	24.08	0.256	24.11	0.258	23.92	0.247
15	QPSK	1	74	24.05	0.254	23.94	0.248	24.00	0.251
15	QPSK	36	0	23.15	0.207	23.20	0.209	23.16	0.207
15	QPSK	36	20	23.18	0.208	23.08	0.203	23.03	0.201
15	QPSK	36	39	22.95	0.197	23.00	0.200	22.97	0.198
15	QPSK	75	0	23.08	0.203	23.14	0.206	22.93	0.196
15	16QAM	1	0	23.39	0.218	23.42	0.220	23.34	0.216
15	16QAM	1	37	23.31	0.214	23.30	0.214	23.23	0.210
15	16QAM	1	74	23.37	0.217	23.21	0.209	23.22	0.210
15	16QAM	36	0	22.26	0.168	22.06	0.161	22.10	0.162
15	16QAM	36	20	22.03	0.160	21.95	0.157	22.19	0.166
15	16QAM	36	39	22.10	0.162	21.93	0.156	22.02	0.159
15	16QAM	75	0	22.03	0.160	22.00	0.158	22.00	0.158
15	64QAM	1	0	22.21	0.166	22.34	0.171	22.19	0.166
15	64QAM	1	37	22.26	0.168	22.17	0.165	22.02	0.159
15	64QAM	1	74	22.15	0.164	22.08	0.161	22.06	0.161
15	64QAM	36	0	21.07	0.128	21.21	0.132	20.95	0.124
15	64QAM	36	20	20.97	0.125	20.92	0.124	20.95	0.124
15	64QAM	36	39	21.05	0.127	21.03	0.127	21.04	0.127
15	64QAM	75	0	20.93	0.124	21.13	0.130	20.98	0.125



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	24.15	0.260	24.26	0.267	24.19	0.262
10	QPSK	1	25	24.13	0.259	24.20	0.263	24.07	0.255
10	QPSK	1	49	24.01	0.252	23.98	0.250	23.93	0.247
10	QPSK	25	0	23.18	0.208	23.20	0.209	22.93	0.196
10	QPSK	25	12	23.14	0.206	22.97	0.198	22.97	0.198
10	QPSK	25	25	23.03	0.201	23.04	0.201	22.94	0.197
10	QPSK	50	0	23.01	0.200	23.06	0.202	22.94	0.197
10	16QAM	1	0	23.37	0.217	23.43	0.220	23.29	0.213
10	16QAM	1	25	23.34	0.216	23.36	0.217	23.30	0.214
10	16QAM	1	49	23.35	0.216	23.15	0.207	23.25	0.211
10	16QAM	25	0	22.09	0.162	22.06	0.161	22.11	0.163
10	16QAM	25	12	22.10	0.162	22.03	0.160	22.18	0.165
10	16QAM	25	25	22.11	0.163	22.07	0.161	22.04	0.160
10	16QAM	50	0	22.10	0.162	22.00	0.158	22.09	0.162
10	64QAM	1	0	22.24	0.167	22.19	0.166	22.00	0.158
10	64QAM	1	25	22.14	0.164	22.28	0.169	22.15	0.164
10	64QAM	1	49	22.03	0.160	22.03	0.160	22.08	0.161
10	64QAM	25	0	21.09	0.129	21.19	0.132	21.04	0.127
10	64QAM	25	12	21.09	0.129	21.14	0.130	21.01	0.126
10	64QAM	25	25	20.97	0.125	21.04	0.127	20.99	0.126
10	64QAM	50	0	21.03	0.127	21.06	0.128	21.02	0.126



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	24.19	0.262	24.25	0.266	24.08	0.256
5	QPSK	1	12	24.10	0.257	24.13	0.259	24.13	0.259
5	QPSK	1	24	24.09	0.256	23.96	0.249	23.90	0.245
5	QPSK	12	0	23.23	0.210	23.16	0.207	23.03	0.201
5	QPSK	12	7	23.12	0.205	23.02	0.200	23.01	0.200
5	QPSK	12	13	22.99	0.199	23.04	0.201	23.05	0.202
5	QPSK	25	0	23.03	0.201	23.09	0.204	23.07	0.203
5	16QAM	1	0	23.40	0.219	23.40	0.219	23.26	0.212
5	16QAM	1	12	23.34	0.216	23.33	0.215	23.25	0.211
5	16QAM	1	24	23.36	0.217	23.15	0.207	23.19	0.208
5	16QAM	12	0	22.13	0.163	22.22	0.167	22.06	0.161
5	16QAM	12	7	22.14	0.164	22.15	0.164	22.06	0.161
5	16QAM	12	13	22.02	0.159	21.95	0.157	22.00	0.158
5	16QAM	25	0	22.00	0.158	22.01	0.159	22.02	0.159
5	64QAM	1	0	22.20	0.166	22.07	0.161	22.02	0.159
5	64QAM	1	12	22.19	0.166	22.19	0.166	22.11	0.163
5	64QAM	1	24	22.05	0.160	22.16	0.164	22.09	0.162
5	64QAM	12	0	21.04	0.127	21.13	0.130	21.15	0.130
5	64QAM	12	7	21.02	0.126	21.08	0.128	20.99	0.126
5	64QAM	12	13	20.97	0.125	21.09	0.129	20.98	0.125
5	64QAM	25	0	21.02	0.126	21.12	0.129	21.07	0.128



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	24.18	0.262	24.26	0.267	24.05	0.254
3	QPSK	1	8	24.11	0.258	24.19	0.262	24.01	0.252
3	QPSK	1	14	24.05	0.254	24.08	0.256	23.97	0.249
3	QPSK	8	0	23.32	0.215	23.24	0.211	23.16	0.207
3	QPSK	8	4	23.23	0.210	23.16	0.207	22.96	0.198
3	QPSK	8	7	23.09	0.204	23.04	0.201	22.99	0.199
3	QPSK	15	0	23.14	0.206	23.07	0.203	22.98	0.199
3	16QAM	1	0	23.39	0.218	23.38	0.218	23.23	0.210
3	16QAM	1	8	23.33	0.215	23.32	0.215	23.26	0.212
3	16QAM	1	14	23.38	0.218	23.26	0.212	23.16	0.207
3	16QAM	8	0	22.06	0.161	22.06	0.161	21.99	0.158
3	16QAM	8	4	22.12	0.163	21.95	0.157	22.14	0.164
3	16QAM	8	7	22.03	0.160	21.96	0.157	21.92	0.156
3	16QAM	15	0	21.95	0.157	21.97	0.157	21.96	0.157
3	64QAM	1	0	22.09	0.162	22.12	0.163	22.23	0.167
3	64QAM	1	8	22.06	0.161	22.10	0.162	22.02	0.159
3	64QAM	1	14	22.20	0.166	22.20	0.166	21.97	0.157
3	64QAM	8	0	20.95	0.124	21.19	0.132	21.10	0.129
3	64QAM	8	4	21.11	0.129	20.94	0.124	21.00	0.126
3	64QAM	8	7	20.90	0.123	20.91	0.123	20.94	0.124
3	64QAM	15	0	20.94	0.124	21.01	0.126	21.06	0.128



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	24.17	0.261	24.24	0.265	24.12	0.258
1.4	QPSK	1	3	24.09	0.256	24.00	0.251	23.93	0.247
1.4	QPSK	1	5	24.08	0.256	24.07	0.255	23.95	0.248
1.4	QPSK	3	0	23.19	0.208	23.29	0.213	23.14	0.206
1.4	QPSK	3	1	23.15	0.207	23.18	0.208	23.12	0.205
1.4	QPSK	3	3	23.17	0.207	23.13	0.206	23.10	0.204
1.4	QPSK	6	0	23.04	0.201	23.09	0.204	23.04	0.201
1.4	16QAM	1	0	23.37	0.217	23.41	0.219	23.35	0.216
1.4	16QAM	1	3	23.31	0.214	23.33	0.215	23.21	0.209
1.4	16QAM	1	5	23.31	0.214	23.27	0.212	23.36	0.217
1.4	16QAM	3	0	22.25	0.168	22.03	0.160	22.01	0.159
1.4	16QAM	3	1	22.16	0.164	22.01	0.159	22.00	0.158
1.4	16QAM	3	3	22.13	0.163	21.99	0.158	22.09	0.162
1.4	16QAM	6	0	22.10	0.162	21.99	0.158	22.04	0.160
1.4	64QAM	1	0	22.22	0.167	22.09	0.162	22.00	0.158
1.4	64QAM	1	3	22.24	0.167	22.03	0.160	22.07	0.161
1.4	64QAM	1	5	22.14	0.164	22.13	0.163	22.12	0.163
1.4	64QAM	3	0	20.99	0.126	21.07	0.128	21.10	0.129
1.4	64QAM	3	1	20.94	0.124	20.95	0.124	21.09	0.129
1.4	64QAM	3	3	21.07	0.128	21.02	0.126	21.02	0.126
1.4	64QAM	6	0	20.99	0.126	20.95	0.124	20.96	0.125



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	25.47	0.352	25.54	0.358	25.49	0.354
20	QPSK	1	49	25.45	0.351	25.43	0.349	25.43	0.349
20	QPSK	1	99	25.37	0.344	25.48	0.353	25.39	0.346
20	QPSK	50	0	24.49	0.281	24.58	0.287	24.52	0.283
20	QPSK	50	24	24.55	0.285	24.38	0.274	24.37	0.274
20	QPSK	50	50	24.41	0.276	24.44	0.278	24.31	0.270
20	QPSK	100	0	24.37	0.274	24.40	0.275	24.46	0.279
20	16QAM	1	0	24.63	0.290	24.78	0.301	24.67	0.293
20	16QAM	1	49	24.64	0.291	24.71	0.296	24.56	0.286
20	16QAM	1	99	24.56	0.286	24.67	0.293	24.63	0.290
20	16QAM	50	0	23.55	0.226	23.58	0.228	23.38	0.218
20	16QAM	50	24	23.42	0.220	23.36	0.217	23.44	0.221
20	16QAM	50	50	23.31	0.214	23.38	0.218	23.42	0.220
20	16QAM	100	0	23.23	0.210	23.50	0.224	23.32	0.215
20	64QAM	1	0	23.54	0.226	23.69	0.234	23.55	0.226
20	64QAM	1	49	23.41	0.219	23.42	0.220	23.58	0.228
20	64QAM	1	99	23.43	0.220	23.42	0.220	23.55	0.226
20	64QAM	50	0	22.43	0.175	22.52	0.179	22.50	0.178
20	64QAM	50	24	22.37	0.173	22.51	0.178	22.29	0.169
20	64QAM	50	50	22.34	0.171	22.32	0.171	22.33	0.171
20	64QAM	100	0	22.33	0.171	22.47	0.177	22.38	0.173



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	25.49	0.354	25.51	0.356	25.43	0.349
15	QPSK	1	37	25.47	0.352	25.47	0.352	25.39	0.346
15	QPSK	1	74	25.32	0.340	25.43	0.349	25.38	0.345
15	QPSK	36	0	24.53	0.284	24.56	0.286	24.38	0.274
15	QPSK	36	20	24.35	0.272	24.55	0.285	24.32	0.270
15	QPSK	36	39	24.40	0.275	24.27	0.267	24.23	0.265
15	QPSK	75	0	24.42	0.277	24.41	0.276	24.44	0.278
15	16QAM	1	0	24.67	0.293	24.75	0.299	24.64	0.291
15	16QAM	1	37	24.57	0.286	24.73	0.297	24.55	0.285
15	16QAM	1	74	24.66	0.292	24.53	0.284	24.69	0.294
15	16QAM	36	0	23.54	0.226	23.59	0.229	23.38	0.218
15	16QAM	36	20	23.33	0.215	23.38	0.218	23.33	0.215
15	16QAM	36	39	23.21	0.209	23.45	0.221	23.40	0.219
15	16QAM	75	0	23.35	0.216	23.51	0.224	23.28	0.213
15	64QAM	1	0	23.44	0.221	23.53	0.225	23.52	0.225
15	64QAM	1	37	23.36	0.217	23.46	0.222	23.47	0.222
15	64QAM	1	74	23.35	0.216	23.43	0.220	23.36	0.217
15	64QAM	36	0	22.41	0.174	22.51	0.178	22.41	0.174
15	64QAM	36	20	22.21	0.166	22.46	0.176	22.27	0.169
15	64QAM	36	39	22.24	0.167	22.24	0.167	22.40	0.174
15	64QAM	75	0	22.16	0.164	22.50	0.178	22.44	0.175



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	25.45	0.351	25.49	0.354	25.42	0.348
10	QPSK	1	25	25.42	0.348	25.33	0.341	25.29	0.338
10	QPSK	1	49	25.35	0.343	25.43	0.349	25.29	0.338
10	QPSK	25	0	24.53	0.284	24.58	0.287	24.29	0.269
10	QPSK	25	12	24.50	0.282	24.46	0.279	24.36	0.273
10	QPSK	25	25	24.27	0.267	24.34	0.272	24.43	0.277
10	QPSK	50	0	24.44	0.278	24.47	0.280	24.43	0.277
10	16QAM	1	0	24.70	0.295	24.74	0.298	24.63	0.290
10	16QAM	1	25	24.73	0.297	24.65	0.292	24.52	0.283
10	16QAM	1	49	24.72	0.296	24.71	0.296	24.65	0.292
10	16QAM	25	0	23.41	0.219	23.57	0.228	23.51	0.224
10	16QAM	25	12	23.42	0.220	23.34	0.216	23.34	0.216
10	16QAM	25	25	23.30	0.214	23.33	0.215	23.46	0.222
10	16QAM	50	0	23.29	0.213	23.41	0.219	23.28	0.213
10	64QAM	1	0	23.53	0.225	23.57	0.228	23.52	0.225
10	64QAM	1	25	23.51	0.224	23.52	0.225	23.50	0.224
10	64QAM	1	49	23.34	0.216	23.49	0.223	23.53	0.225
10	64QAM	25	0	22.47	0.177	22.51	0.178	22.47	0.177
10	64QAM	25	12	22.39	0.173	22.43	0.175	22.27	0.169
10	64QAM	25	25	22.32	0.171	22.33	0.171	22.33	0.171
10	64QAM	50	0	22.18	0.165	22.34	0.171	22.43	0.175



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	25.44	0.350	25.48	0.353	25.41	0.348
5	QPSK	1	12	25.42	0.348	25.43	0.349	25.35	0.343
5	QPSK	1	24	25.40	0.347	25.42	0.348	25.28	0.337
5	QPSK	12	0	24.52	0.283	24.67	0.293	24.41	0.276
5	QPSK	12	7	24.32	0.270	24.42	0.277	24.32	0.270
5	QPSK	12	13	24.37	0.274	24.29	0.269	24.33	0.271
5	QPSK	25	0	24.47	0.280	24.46	0.279	24.32	0.270
5	16QAM	1	0	24.71	0.296	24.76	0.299	24.63	0.290
5	16QAM	1	12	24.75	0.299	24.66	0.292	24.75	0.299
5	16QAM	1	24	24.53	0.284	24.61	0.289	24.67	0.293
5	16QAM	12	0	23.45	0.221	23.45	0.221	23.55	0.226
5	16QAM	12	7	23.42	0.220	23.52	0.225	23.51	0.224
5	16QAM	12	13	23.27	0.212	23.46	0.222	23.25	0.211
5	16QAM	25	0	23.24	0.211	23.39	0.218	23.42	0.220
5	64QAM	1	0	23.46	0.222	23.54	0.226	23.48	0.223
5	64QAM	1	12	23.45	0.221	23.59	0.229	23.42	0.220
5	64QAM	1	24	23.25	0.211	23.42	0.220	23.33	0.215
5	64QAM	12	0	22.43	0.175	22.59	0.182	22.48	0.177
5	64QAM	12	7	22.27	0.169	22.52	0.179	22.27	0.169
5	64QAM	12	13	22.22	0.167	22.48	0.177	22.28	0.169
5	64QAM	25	0	22.23	0.167	22.28	0.169	22.31	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				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	25.46	0.352	25.50	0.355	25.44	0.350
3	QPSK	1	8	25.34	0.342	25.46	0.352	25.41	0.348
3	QPSK	1	14	25.35	0.343	25.34	0.342	25.38	0.345
3	QPSK	8	0	24.51	0.282	24.48	0.281	24.29	0.269
3	QPSK	8	4	24.56	0.286	24.56	0.286	24.31	0.270
3	QPSK	8	7	24.42	0.277	24.34	0.272	24.27	0.267
3	QPSK	15	0	24.35	0.272	24.52	0.283	24.40	0.275
3	16QAM	1	0	24.73	0.297	24.75	0.299	24.71	0.296
3	16QAM	1	8	24.68	0.294	24.59	0.288	24.72	0.296
3	16QAM	1	14	24.64	0.291	24.69	0.294	24.65	0.292
3	16QAM	8	0	23.36	0.217	23.46	0.222	23.52	0.225
3	16QAM	8	4	23.39	0.218	23.44	0.221	23.50	0.224
3	16QAM	8	7	23.28	0.213	23.27	0.212	23.40	0.219
3	16QAM	15	0	23.25	0.211	23.42	0.220	23.36	0.217
3	64QAM	1	0	23.53	0.225	23.57	0.228	23.49	0.223
3	64QAM	1	8	23.31	0.214	23.51	0.224	23.49	0.223
3	64QAM	1	14	23.48	0.223	23.39	0.218	23.46	0.222
3	64QAM	8	0	22.47	0.177	22.54	0.179	22.36	0.172
3	64QAM	8	4	22.29	0.169	22.53	0.179	22.28	0.169
3	64QAM	8	7	22.23	0.167	22.27	0.169	22.37	0.173
3	64QAM	15	0	22.21	0.166	22.32	0.171	22.43	0.175



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	25.41	0.348	25.48	0.353	25.40	0.347
1.4	QPSK	1	3	25.43	0.349	25.42	0.348	25.37	0.344
1.4	QPSK	1	5	25.35	0.343	25.36	0.344	25.32	0.340
1.4	QPSK	3	0	24.46	0.279	24.66	0.292	24.43	0.277
1.4	QPSK	3	1	24.56	0.286	24.48	0.281	24.42	0.277
1.4	QPSK	3	3	24.43	0.277	24.47	0.280	24.38	0.274
1.4	QPSK	6	0	24.32	0.270	24.36	0.273	24.32	0.270
1.4	16QAM	1	0	24.71	0.296	24.75	0.299	24.72	0.296
1.4	16QAM	1	3	24.76	0.299	24.67	0.293	24.51	0.282
1.4	16QAM	1	5	24.70	0.295	24.72	0.296	24.55	0.285
1.4	16QAM	3	0	23.32	0.215	23.42	0.220	23.53	0.225
1.4	16QAM	3	1	23.30	0.214	23.32	0.215	23.42	0.220
1.4	16QAM	3	3	23.27	0.212	23.32	0.215	23.37	0.217
1.4	16QAM	6	0	23.41	0.219	23.28	0.213	23.40	0.219
1.4	64QAM	1	0	23.50	0.224	23.65	0.232	23.58	0.228
1.4	64QAM	1	3	23.39	0.218	23.65	0.232	23.48	0.223
1.4	64QAM	1	5	23.30	0.214	23.58	0.228	23.34	0.216
1.4	64QAM	3	0	22.35	0.172	22.37	0.173	22.40	0.174
1.4	64QAM	3	1	22.39	0.173	22.40	0.174	22.24	0.167
1.4	64QAM	3	3	22.23	0.167	22.47	0.177	22.21	0.166
1.4	64QAM	6	0	22.24	0.167	22.27	0.169	22.31	0.170



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	12.61	0.018	12.68	0.019	12.64	0.018
10	QPSK	1	25	12.63	0.018	12.62	0.018	12.49	0.018
10	QPSK	1	49	12.56	0.018	12.54	0.018	12.48	0.018
10	QPSK	25	0	11.58	0.014	11.60	0.014	11.55	0.014
10	QPSK	25	12	11.53	0.014	11.60	0.014	11.42	0.014
10	QPSK	25	25	11.49	0.014	11.49	0.014	11.41	0.014
10	QPSK	50	0	11.49	0.014	11.48	0.014	11.41	0.014
10	16QAM	1	0	12.00	0.016	11.90	0.015	11.80	0.015
10	16QAM	1	25	11.83	0.015	11.85	0.015	11.81	0.015
10	16QAM	1	49	11.79	0.015	11.82	0.015	11.87	0.015
10	16QAM	25	0	10.61	0.012	10.71	0.012	10.74	0.012
10	16QAM	25	12	10.48	0.011	10.68	0.012	10.66	0.012
10	16QAM	25	25	10.52	0.011	10.51	0.011	10.49	0.011
10	16QAM	50	0	10.55	0.011	10.62	0.012	10.54	0.011
10	64QAM	1	0	10.57	0.011	10.78	0.012	10.61	0.012
10	64QAM	1	25	10.44	0.011	10.67	0.012	10.57	0.011
10	64QAM	1	49	10.60	0.011	10.58	0.011	10.66	0.012
10	64QAM	25	0	9.44	0.009	9.68	0.009	9.44	0.009
10	64QAM	25	12	9.32	0.009	9.61	0.009	9.35	0.009
10	64QAM	25	25	9.34	0.009	9.59	0.009	9.33	0.009
10	64QAM	50	0	9.25	0.008	9.42	0.009	9.52	0.009



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	12.63	0.018	12.64	0.018	12.58	0.018
5	QPSK	1	12	12.57	0.018	12.61	0.018	12.62	0.018
5	QPSK	1	24	12.51	0.018	12.48	0.018	12.53	0.018
5	QPSK	12	0	11.76	0.015	11.82	0.015	11.66	0.015
5	QPSK	12	7	11.65	0.015	11.68	0.015	11.58	0.014
5	QPSK	12	13	11.44	0.014	11.59	0.014	11.46	0.014
5	QPSK	25	0	11.57	0.014	11.66	0.015	11.63	0.015
5	16QAM	1	0	11.79	0.015	11.88	0.015	11.88	0.015
5	16QAM	1	12	11.93	0.016	11.76	0.015	11.84	0.015
5	16QAM	1	24	11.65	0.015	11.83	0.015	11.80	0.015
5	16QAM	12	0	10.66	0.012	10.63	0.012	10.70	0.012
5	16QAM	12	7	10.56	0.011	10.60	0.011	10.71	0.012
5	16QAM	12	13	10.44	0.011	10.48	0.011	10.48	0.011
5	16QAM	25	0	10.42	0.011	10.43	0.011	10.51	0.011
5	64QAM	1	0	10.57	0.011	10.62	0.012	10.73	0.012
5	64QAM	1	12	10.51	0.011	10.59	0.011	10.51	0.011
5	64QAM	1	24	10.43	0.011	10.67	0.012	10.64	0.012
5	64QAM	12	0	9.41	0.009	9.59	0.009	9.60	0.009
5	64QAM	12	7	9.51	0.009	9.63	0.009	9.43	0.009
5	64QAM	12	13	9.28	0.008	9.42	0.009	9.44	0.009
5	64QAM	25	0	9.29	0.008	9.42	0.009	9.46	0.009



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	12.64	0.018	12.65	0.018	12.51	0.018
3	QPSK	1	8	12.63	0.018	12.60	0.018	12.56	0.018
3	QPSK	1	14	12.60	0.018	12.48	0.018	12.41	0.017
3	QPSK	8	0	11.62	0.015	11.71	0.015	11.54	0.014
3	QPSK	8	4	11.59	0.014	11.54	0.014	11.50	0.014
3	QPSK	8	7	11.45	0.014	11.50	0.014	11.43	0.014
3	QPSK	15	0	11.44	0.014	11.62	0.015	11.56	0.014
3	16QAM	1	0	11.88	0.015	11.96	0.016	11.78	0.015
3	16QAM	1	8	11.82	0.015	11.85	0.015	11.67	0.015
3	16QAM	1	14	11.63	0.015	11.88	0.015	11.72	0.015
3	16QAM	8	0	10.46	0.011	10.56	0.011	10.60	0.011
3	16QAM	8	4	10.56	0.011	10.58	0.011	10.62	0.012
3	16QAM	8	7	10.48	0.011	10.45	0.011	10.53	0.011
3	16QAM	15	0	10.47	0.011	10.44	0.011	10.50	0.011
3	64QAM	1	0	10.52	0.011	10.67	0.012	10.72	0.012
3	64QAM	1	8	10.44	0.011	10.69	0.012	10.67	0.012
3	64QAM	1	14	10.50	0.011	10.65	0.012	10.46	0.011
3	64QAM	8	0	9.61	0.009	9.73	0.009	9.63	0.009
3	64QAM	8	4	9.44	0.009	9.56	0.009	9.45	0.009
3	64QAM	8	7	9.50	0.009	9.57	0.009	9.47	0.009
3	64QAM	15	0	9.35	0.009	9.62	0.009	9.47	0.009



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	12.58	0.018	12.63	0.018	12.56	0.018
1.4	QPSK	1	3	12.54	0.018	12.48	0.018	12.53	0.018
1.4	QPSK	1	5	12.52	0.018	12.55	0.018	12.44	0.018
1.4	QPSK	3	0	11.66	0.015	11.72	0.015	11.47	0.014
1.4	QPSK	3	1	11.71	0.015	11.53	0.014	11.47	0.014
1.4	QPSK	3	3	11.45	0.014	11.64	0.015	11.44	0.014
1.4	QPSK	6	0	11.53	0.014	11.50	0.014	11.58	0.014
1.4	16QAM	1	0	11.79	0.015	12.00	0.016	11.88	0.015
1.4	16QAM	1	3	11.97	0.016	11.84	0.015	11.67	0.015
1.4	16QAM	1	5	11.72	0.015	11.78	0.015	11.72	0.015
1.4	16QAM	3	0	10.45	0.011	10.74	0.012	10.75	0.012
1.4	16QAM	3	1	10.46	0.011	10.66	0.012	10.71	0.012
1.4	16QAM	3	3	10.44	0.011	10.52	0.011	10.51	0.011
1.4	16QAM	6	0	10.54	0.011	10.60	0.011	10.46	0.011
1.4	64QAM	1	0	10.72	0.012	10.80	0.012	10.70	0.012
1.4	64QAM	1	3	10.57	0.011	10.76	0.012	10.56	0.011
1.4	64QAM	1	5	10.56	0.011	10.51	0.011	10.66	0.012
1.4	64QAM	3	0	9.52	0.009	9.71	0.009	9.66	0.009
1.4	64QAM	3	1	9.54	0.009	9.58	0.009	9.44	0.009
1.4	64QAM	3	3	9.48	0.009	9.63	0.009	9.46	0.009
1.4	64QAM	6	0	9.48	0.009	9.65	0.009	9.56	0.009



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	25.92	0.391	25.96	0.394	26.15	0.412
20	QPSK	1	49	25.77	0.378	25.87	0.386	26.12	0.409
20	QPSK	1	99	25.84	0.384	25.81	0.381	26.01	0.399
20	QPSK	50	0	24.93	0.311	24.97	0.314	25.10	0.324
20	QPSK	50	24	24.73	0.297	24.78	0.301	24.98	0.315
20	QPSK	50	50	24.78	0.301	24.80	0.302	25.03	0.318
20	QPSK	100	0	24.73	0.297	24.76	0.299	25.01	0.317
20	16QAM	1	0	25.05	0.320	25.09	0.323	25.26	0.336
20	16QAM	1	49	25.07	0.321	25.04	0.319	25.18	0.330
20	16QAM	1	99	25.04	0.319	24.98	0.315	25.17	0.329
20	16QAM	50	0	23.85	0.243	23.82	0.241	24.08	0.256
20	16QAM	50	24	23.81	0.240	23.93	0.247	24.05	0.254
20	16QAM	50	50	23.75	0.237	23.77	0.238	23.91	0.246
20	16QAM	100	0	23.84	0.242	23.73	0.236	23.99	0.251
20	64QAM	1	0	23.90	0.245	23.93	0.247	24.21	0.264
20	64QAM	1	49	23.84	0.242	23.84	0.242	24.22	0.264
20	64QAM	1	99	23.88	0.244	23.85	0.243	24.03	0.253
20	64QAM	50	0	22.83	0.192	22.94	0.197	23.08	0.203
20	64QAM	50	24	22.80	0.191	22.91	0.195	22.92	0.196
20	64QAM	50	50	22.75	0.188	22.76	0.189	23.05	0.202
20	64QAM	100	0	22.78	0.190	22.80	0.191	22.94	0.197



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	25.90	0.389	25.92	0.391	26.12	0.409
15	QPSK	1	37	25.82	0.382	25.81	0.381	26.07	0.405
15	QPSK	1	74	25.77	0.378	25.83	0.383	25.96	0.394
15	QPSK	36	0	24.97	0.314	24.99	0.316	25.07	0.321
15	QPSK	36	20	24.76	0.299	24.76	0.299	24.98	0.315
15	QPSK	36	39	24.78	0.301	24.81	0.303	25.04	0.319
15	QPSK	75	0	24.86	0.306	24.80	0.302	25.02	0.318
15	16QAM	1	0	25.21	0.332	25.20	0.331	25.25	0.335
15	16QAM	1	37	25.19	0.330	25.00	0.316	25.15	0.327
15	16QAM	1	74	24.95	0.313	25.16	0.328	25.23	0.333
15	16QAM	36	0	23.85	0.243	23.84	0.242	24.09	0.256
15	16QAM	36	20	23.90	0.245	23.84	0.242	23.97	0.249
15	16QAM	36	39	23.77	0.238	23.75	0.237	24.07	0.255
15	16QAM	75	0	23.82	0.241	23.78	0.239	23.97	0.249
15	64QAM	1	0	23.96	0.249	24.04	0.254	24.16	0.261
15	64QAM	1	37	23.85	0.243	23.97	0.249	24.27	0.267
15	64QAM	1	74	23.90	0.245	23.81	0.240	24.03	0.253
15	64QAM	36	0	22.77	0.189	22.94	0.197	23.05	0.202
15	64QAM	36	20	22.69	0.186	22.72	0.187	22.87	0.194
15	64QAM	36	39	22.81	0.191	22.75	0.188	22.95	0.197
15	64QAM	75	0	22.77	0.189	22.79	0.190	22.90	0.195



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	25.83	0.383	25.91	0.390	26.11	0.408
10	QPSK	1	25	25.81	0.381	25.75	0.376	26.02	0.400
10	QPSK	1	49	25.82	0.382	25.79	0.379	25.94	0.393
10	QPSK	25	0	24.94	0.312	24.96	0.313	25.08	0.322
10	QPSK	25	12	24.87	0.307	24.95	0.313	25.06	0.321
10	QPSK	25	25	24.79	0.301	24.87	0.307	24.91	0.310
10	QPSK	50	0	24.84	0.305	24.78	0.301	24.90	0.309
10	16QAM	1	0	25.10	0.324	25.17	0.329	25.31	0.340
10	16QAM	1	25	25.02	0.318	25.09	0.323	25.30	0.339
10	16QAM	1	49	24.93	0.311	24.91	0.310	25.27	0.337
10	16QAM	25	0	23.90	0.245	23.97	0.249	24.12	0.258
10	16QAM	25	12	23.75	0.237	23.77	0.238	24.11	0.258
10	16QAM	25	25	23.78	0.239	23.83	0.242	24.11	0.258
10	16QAM	50	0	23.75	0.237	23.81	0.240	24.07	0.255
10	64QAM	1	0	23.88	0.244	23.91	0.246	24.05	0.254
10	64QAM	1	25	23.81	0.240	23.97	0.249	24.04	0.254
10	64QAM	1	49	23.82	0.241	23.89	0.245	24.11	0.258
10	64QAM	25	0	22.83	0.192	22.97	0.198	23.02	0.200
10	64QAM	25	12	22.82	0.191	22.91	0.195	22.86	0.193
10	64QAM	25	25	22.77	0.189	22.77	0.189	22.92	0.196
10	64QAM	50	0	22.74	0.188	22.78	0.190	22.89	0.195



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	25.90	0.389	25.93	0.392	26.08	0.406
5	QPSK	1	12	25.83	0.383	25.85	0.385	26.06	0.404
5	QPSK	1	24	25.87	0.386	25.84	0.384	26.00	0.398
5	QPSK	12	0	24.89	0.308	24.94	0.312	25.06	0.321
5	QPSK	12	7	24.93	0.311	24.91	0.310	25.04	0.319
5	QPSK	12	13	24.77	0.300	24.82	0.303	24.90	0.309
5	QPSK	25	0	24.83	0.304	24.90	0.309	24.96	0.313
5	16QAM	1	0	25.07	0.321	25.11	0.324	25.27	0.337
5	16QAM	1	12	25.01	0.317	25.00	0.316	25.25	0.335
5	16QAM	1	24	25.08	0.322	24.94	0.312	25.21	0.332
5	16QAM	12	0	23.80	0.240	23.85	0.243	24.08	0.256
5	16QAM	12	7	23.73	0.236	23.75	0.237	24.03	0.253
5	16QAM	12	13	23.82	0.241	23.80	0.240	23.89	0.245
5	16QAM	25	0	23.79	0.239	23.75	0.237	23.99	0.251
5	64QAM	1	0	23.93	0.247	23.94	0.248	24.05	0.254
5	64QAM	1	12	23.84	0.242	23.92	0.247	24.00	0.251
5	64QAM	1	24	23.77	0.238	23.89	0.245	24.01	0.252
5	64QAM	12	0	22.87	0.194	22.80	0.191	23.10	0.204
5	64QAM	12	7	22.75	0.188	22.78	0.190	23.01	0.200
5	64QAM	12	13	22.75	0.188	22.77	0.189	22.82	0.191
5	64QAM	25	0	22.81	0.191	22.90	0.195	22.91	0.195



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	13.71	0.023	13.76	0.024	13.73	0.024
10	QPSK	1	25	13.51	0.022	13.53	0.023	13.48	0.022
10	QPSK	1	49	13.54	0.023	13.66	0.023	13.69	0.023
10	QPSK	25	0	12.70	0.019	12.79	0.019	12.74	0.019
10	QPSK	25	12	12.50	0.018	12.65	0.018	12.55	0.018
10	QPSK	25	25	12.51	0.018	12.59	0.018	12.55	0.018
10	QPSK	50	0	12.43	0.017	12.62	0.018	12.55	0.018
10	16QAM	1	0	12.86	0.019	12.97	0.020	12.82	0.019
10	16QAM	1	25	12.69	0.019	12.71	0.019	12.69	0.019
10	16QAM	1	49	12.74	0.019	12.87	0.019	12.64	0.018
10	16QAM	25	0	11.41	0.014	11.64	0.015	11.48	0.014
10	16QAM	25	12	11.37	0.014	11.68	0.015	11.64	0.015
10	16QAM	25	25	11.48	0.014	11.35	0.014	11.46	0.014
10	16QAM	50	0	11.42	0.014	11.53	0.014	11.42	0.014
10	64QAM	1	0	11.42	0.014	11.79	0.015	11.50	0.014
10	64QAM	1	25	11.50	0.014	11.77	0.015	11.64	0.015
10	64QAM	1	49	11.55	0.014	11.53	0.014	11.44	0.014
10	64QAM	25	0	10.50	0.011	10.66	0.012	10.49	0.011
10	64QAM	25	12	10.45	0.011	10.46	0.011	10.54	0.011
10	64QAM	25	25	10.36	0.011	10.51	0.011	10.49	0.011
10	64QAM	50	0	10.36	0.011	10.38	0.011	10.42	0.011



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	13.63	0.023	13.71	0.023	13.65	0.023
5	QPSK	1	12	13.55	0.023	13.65	0.023	13.57	0.023
5	QPSK	1	24	13.57	0.023	13.47	0.022	13.51	0.022
5	QPSK	12	0	12.46	0.018	12.66	0.018	12.60	0.018
5	QPSK	12	7	12.43	0.017	12.62	0.018	12.56	0.018
5	QPSK	12	13	12.43	0.017	12.38	0.017	12.47	0.018
5	QPSK	25	0	12.34	0.017	12.43	0.017	12.48	0.018
5	16QAM	1	0	12.70	0.019	12.91	0.020	12.86	0.019
5	16QAM	1	12	12.80	0.019	12.87	0.019	12.67	0.018
5	16QAM	1	24	12.78	0.019	12.78	0.019	12.71	0.019
5	16QAM	12	0	11.43	0.014	11.70	0.015	11.51	0.014
5	16QAM	12	7	11.46	0.014	11.53	0.014	11.52	0.014
5	16QAM	12	13	11.45	0.014	11.43	0.014	11.45	0.014
5	16QAM	25	0	11.46	0.014	11.45	0.014	11.44	0.014
5	64QAM	1	0	11.49	0.014	11.70	0.015	11.64	0.015
5	64QAM	1	12	11.44	0.014	11.72	0.015	11.61	0.014
5	64QAM	1	24	11.50	0.014	11.71	0.015	11.46	0.014
5	64QAM	12	0	10.53	0.011	10.68	0.012	10.63	0.012
5	64QAM	12	7	10.47	0.011	10.50	0.011	10.47	0.011
5	64QAM	12	13	10.41	0.011	10.42	0.011	10.31	0.011
5	64QAM	25	0	10.29	0.011	10.47	0.011	10.46	0.011



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	13.66	0.023	13.73	0.024	13.69	0.023
3	QPSK	1	8	13.61	0.023	13.69	0.023	13.64	0.023
3	QPSK	1	14	13.39	0.022	13.54	0.023	13.37	0.022
3	QPSK	8	0	12.65	0.018	12.70	0.019	12.59	0.018
3	QPSK	8	4	12.52	0.018	12.51	0.018	12.43	0.017
3	QPSK	8	7	12.52	0.018	12.46	0.018	12.38	0.017
3	QPSK	15	0	12.43	0.017	12.49	0.018	12.46	0.018
3	16QAM	1	0	12.86	0.019	12.85	0.019	12.90	0.019
3	16QAM	1	8	12.67	0.018	12.70	0.019	12.69	0.019
3	16QAM	1	14	12.69	0.019	12.88	0.019	12.78	0.019
3	16QAM	8	0	11.39	0.014	11.71	0.015	11.59	0.014
3	16QAM	8	4	11.53	0.014	11.47	0.014	11.60	0.014
3	16QAM	8	7	11.47	0.014	11.48	0.014	11.35	0.014
3	16QAM	15	0	11.33	0.014	11.37	0.014	11.35	0.014
3	64QAM	1	0	11.61	0.014	11.66	0.015	11.56	0.014
3	64QAM	1	8	11.53	0.014	11.77	0.015	11.54	0.014
3	64QAM	1	14	11.47	0.014	11.54	0.014	11.66	0.015
3	64QAM	8	0	10.40	0.011	10.55	0.011	10.49	0.011
3	64QAM	8	4	10.29	0.011	10.57	0.011	10.39	0.011
3	64QAM	8	7	10.36	0.011	10.43	0.011	10.32	0.011
3	64QAM	15	0	10.48	0.011	10.54	0.011	10.57	0.011



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	13.67	0.023	13.72	0.024	13.63	0.023
1.4	QPSK	1	3	13.53	0.023	13.62	0.023	13.53	0.023
1.4	QPSK	1	5	13.45	0.022	13.51	0.022	13.40	0.022
1.4	QPSK	3	0	12.50	0.018	12.64	0.018	12.60	0.018
1.4	QPSK	3	1	12.44	0.018	12.69	0.019	12.54	0.018
1.4	QPSK	3	3	12.44	0.018	12.52	0.018	12.55	0.018
1.4	QPSK	6	0	12.44	0.018	12.63	0.018	12.52	0.018
1.4	16QAM	1	0	12.71	0.019	12.88	0.019	12.81	0.019
1.4	16QAM	1	3	12.72	0.019	12.67	0.018	12.72	0.019
1.4	16QAM	1	5	12.54	0.018	12.79	0.019	12.67	0.018
1.4	16QAM	3	0	11.55	0.014	11.68	0.015	11.65	0.015
1.4	16QAM	3	1	11.54	0.014	11.54	0.014	11.56	0.014
1.4	16QAM	3	3	11.49	0.014	11.48	0.014	11.51	0.014
1.4	16QAM	6	0	11.42	0.014	11.56	0.014	11.39	0.014
1.4	64QAM	1	0	11.62	0.015	11.55	0.014	11.64	0.015
1.4	64QAM	1	3	11.36	0.014	11.67	0.015	11.62	0.015
1.4	64QAM	1	5	11.36	0.014	11.56	0.014	11.62	0.015
1.4	64QAM	3	0	10.53	0.011	10.70	0.012	10.52	0.011
1.4	64QAM	3	1	10.55	0.011	10.47	0.011	10.45	0.011
1.4	64QAM	3	3	10.47	0.011	10.46	0.011	10.48	0.011
1.4	64QAM	6	0	10.38	0.011	10.58	0.011	10.33	0.011



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	/	/	16.34	0.043	/	/
10	QPSK	1	25	/	/	16.26	0.042	/	/
10	QPSK	1	49	/	/	16.19	0.042	/	/
10	QPSK	25	0	/	/	15.27	0.034	/	/
10	QPSK	25	12	/	/	15.15	0.033	/	/
10	QPSK	25	25	/	/	15.19	0.033	/	/
10	QPSK	50	0	/	/	15.05	0.032	/	/
10	16QAM	1	0	/	/	15.42	0.035	/	/
10	16QAM	1	25	/	/	15.34	0.034	/	/
10	16QAM	1	49	/	/	15.29	0.034	/	/
10	16QAM	25	0	/	/	14.25	0.027	/	/
10	16QAM	25	12	/	/	14.21	0.026	/	/
10	16QAM	25	25	/	/	14.11	0.026	/	/
10	16QAM	50	0	/	/	14.30	0.027	/	/
10	64QAM	1	0	/	/	14.26	0.027	/	/
10	64QAM	1	25	/	/	14.18	0.026	/	/
10	64QAM	1	49	/	/	14.27	0.027	/	/
10	64QAM	25	0	/	/	13.23	0.021	/	/
10	64QAM	25	12	/	/	13.06	0.020	/	/
10	64QAM	25	25	/	/	13.15	0.021	/	/
10	64QAM	50	0	/	/	13.09	0.020	/	/



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	16.25	0.042	16.30	0.043	16.23	0.042
5	QPSK	1	12	16.20	0.042	16.27	0.042	16.19	0.042
5	QPSK	1	24	16.04	0.040	16.15	0.041	16.17	0.041
5	QPSK	12	0	15.14	0.033	15.39	0.035	15.27	0.034
5	QPSK	12	7	15.14	0.033	15.32	0.034	15.26	0.034
5	QPSK	12	13	15.08	0.032	15.16	0.033	15.10	0.032
5	QPSK	25	0	15.12	0.033	15.08	0.032	15.14	0.033
5	16QAM	1	0	15.53	0.036	15.46	0.035	15.38	0.035
5	16QAM	1	12	15.53	0.036	15.46	0.035	15.54	0.036
5	16QAM	1	24	15.45	0.035	15.50	0.035	15.34	0.034
5	16QAM	12	0	14.19	0.026	14.21	0.026	14.31	0.027
5	16QAM	12	7	14.16	0.026	14.33	0.027	14.15	0.026
5	16QAM	12	13	14.15	0.026	14.09	0.026	14.18	0.026
5	16QAM	25	0	13.98	0.025	14.10	0.026	14.05	0.025
5	64QAM	1	0	14.08	0.026	14.24	0.027	14.33	0.027
5	64QAM	1	12	14.02	0.025	14.36	0.027	14.33	0.027
5	64QAM	1	24	14.10	0.026	14.22	0.026	14.23	0.026
5	64QAM	12	0	13.19	0.021	13.22	0.021	13.26	0.021
5	64QAM	12	7	13.10	0.020	13.18	0.021	13.16	0.021
5	64QAM	12	13	13.06	0.020	13.01	0.020	13.11	0.020
5	64QAM	25	0	13.03	0.020	13.24	0.021	13.18	0.021



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132072		132322		132572	
Frequency (MHz)				1720		1745		1770	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	25.53	0.357	25.65	0.367	25.61	0.364
20	QPSK	1	49	25.47	0.352	25.59	0.362	25.54	0.358
20	QPSK	1	99	25.36	0.344	25.57	0.361	25.42	0.348
20	QPSK	50	0	24.51	0.282	24.60	0.288	24.55	0.285
20	QPSK	50	24	24.51	0.282	24.59	0.288	24.50	0.282
20	QPSK	50	50	24.53	0.284	24.43	0.277	24.45	0.279
20	QPSK	100	0	24.43	0.277	24.50	0.282	24.51	0.282
20	16QAM	1	0	24.66	0.292	24.75	0.299	24.74	0.298
20	16QAM	1	49	24.70	0.295	24.63	0.290	24.57	0.286
20	16QAM	1	99	24.55	0.285	24.64	0.291	24.71	0.296
20	16QAM	50	0	23.56	0.227	23.63	0.231	23.58	0.228
20	16QAM	50	24	23.38	0.218	23.55	0.226	23.63	0.231
20	16QAM	50	50	23.39	0.218	23.45	0.221	23.41	0.219
20	16QAM	100	0	23.38	0.218	23.41	0.219	23.43	0.220
20	64QAM	1	0	23.49	0.223	23.60	0.229	23.53	0.225
20	64QAM	1	49	23.43	0.220	23.57	0.228	23.60	0.229
20	64QAM	1	99	23.35	0.216	23.56	0.227	23.50	0.224
20	64QAM	50	0	22.40	0.174	22.54	0.179	22.50	0.178
20	64QAM	50	24	22.25	0.168	22.46	0.176	22.37	0.173
20	64QAM	50	50	22.39	0.173	22.50	0.178	22.27	0.169
20	64QAM	100	0	22.27	0.169	22.50	0.178	22.52	0.179



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	25.49	0.354	25.62	0.365	25.58	0.361
15	QPSK	1	37	25.40	0.347	25.51	0.356	25.36	0.344
15	QPSK	1	74	25.39	0.346	25.34	0.342	25.31	0.340
15	QPSK	36	0	24.46	0.279	24.64	0.291	24.55	0.285
15	QPSK	36	20	24.48	0.281	24.46	0.279	24.38	0.274
15	QPSK	36	39	24.38	0.274	24.54	0.284	24.41	0.276
15	QPSK	75	0	24.42	0.277	24.41	0.276	24.43	0.277
15	16QAM	1	0	24.69	0.294	24.77	0.300	24.73	0.297
15	16QAM	1	37	24.71	0.296	24.68	0.294	24.59	0.288
15	16QAM	1	74	24.65	0.292	24.64	0.291	24.74	0.298
15	16QAM	36	0	23.51	0.224	23.61	0.230	23.63	0.231
15	16QAM	36	20	23.46	0.222	23.54	0.226	23.46	0.222
15	16QAM	36	39	23.41	0.219	23.49	0.223	23.53	0.225
15	16QAM	75	0	23.34	0.216	23.46	0.222	23.50	0.224
15	64QAM	1	0	23.52	0.225	23.65	0.232	23.58	0.228
15	64QAM	1	37	23.35	0.216	23.59	0.229	23.48	0.223
15	64QAM	1	74	23.41	0.219	23.52	0.225	23.50	0.224
15	64QAM	36	0	22.52	0.179	22.58	0.181	22.53	0.179
15	64QAM	36	20	22.31	0.170	22.35	0.172	22.25	0.168
15	64QAM	36	39	22.40	0.174	22.29	0.169	22.42	0.175
15	64QAM	75	0	22.36	0.172	22.47	0.177	22.27	0.169



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	25.52	0.356	25.58	0.361	25.54	0.358
10	QPSK	1	25	25.51	0.356	25.54	0.358	25.40	0.347
10	QPSK	1	49	25.41	0.348	25.53	0.357	25.29	0.338
10	QPSK	25	0	24.47	0.280	24.61	0.289	24.58	0.287
10	QPSK	25	12	24.54	0.284	24.51	0.282	24.39	0.275
10	QPSK	25	25	24.31	0.270	24.40	0.275	24.48	0.281
10	QPSK	50	0	24.43	0.277	24.45	0.279	24.51	0.282
10	16QAM	1	0	24.70	0.295	24.78	0.301	24.77	0.300
10	16QAM	1	25	24.60	0.288	24.71	0.296	24.64	0.291
10	16QAM	1	49	24.62	0.290	24.72	0.296	24.75	0.299
10	16QAM	25	0	23.46	0.222	23.64	0.231	23.60	0.229
10	16QAM	25	12	23.39	0.218	23.56	0.227	23.63	0.231
10	16QAM	25	25	24.37	0.274	23.34	0.216	23.39	0.218
10	16QAM	50	0	23.52	0.225	23.38	0.218	23.48	0.223
10	64QAM	1	0	23.47	0.222	23.55	0.226	23.57	0.228
10	64QAM	1	25	23.55	0.226	23.58	0.228	23.47	0.222
10	64QAM	1	49	23.39	0.218	23.65	0.232	23.37	0.217
10	64QAM	25	0	22.47	0.177	22.55	0.180	22.52	0.179
10	64QAM	25	12	22.40	0.174	22.47	0.177	22.31	0.170
10	64QAM	25	25	22.30	0.170	22.36	0.172	22.49	0.177
10	64QAM	50	0	22.34	0.171	22.41	0.174	22.44	0.175



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131997		132322		132647	
Frequency (MHz)				1712.5		1745		1777.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	25.47	0.352	25.59	0.362	25.53	0.357
5	QPSK	1	12	25.41	0.348	25.58	0.361	25.43	0.349
5	QPSK	1	24	25.47	0.352	25.48	0.353	25.31	0.340
5	QPSK	12	0	24.58	0.287	24.62	0.290	24.58	0.287
5	QPSK	12	7	24.52	0.283	24.61	0.289	24.37	0.274
5	QPSK	12	13	24.40	0.275	24.42	0.277	24.39	0.275
5	QPSK	25	0	24.51	0.282	24.56	0.286	24.34	0.272
5	16QAM	1	0	24.76	0.299	24.78	0.301	24.75	0.299
5	16QAM	1	12	24.64	0.291	24.71	0.296	24.70	0.295
5	16QAM	1	24	24.71	0.296	24.73	0.297	24.64	0.291
5	16QAM	12	0	23.53	0.225	23.49	0.223	23.47	0.222
5	16QAM	12	7	23.50	0.224	23.59	0.229	23.39	0.218
5	16QAM	12	13	23.43	0.220	23.42	0.220	23.33	0.215
5	16QAM	25	0	23.34	0.216	23.56	0.227	23.31	0.214
5	64QAM	1	0	23.64	0.231	23.59	0.229	23.54	0.226
5	64QAM	1	12	23.60	0.229	23.52	0.225	23.48	0.223
5	64QAM	1	24	23.47	0.222	23.47	0.222	23.41	0.219
5	64QAM	12	0	22.29	0.169	22.52	0.179	22.45	0.176
5	64QAM	12	7	22.46	0.176	22.35	0.172	22.24	0.167
5	64QAM	12	13	22.32	0.171	22.38	0.173	22.25	0.168
5	64QAM	25	0	22.27	0.169	22.48	0.177	22.48	0.177



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131987		132322		132657	
Frequency (MHz)				1711.5		1745		1778.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	25.51	0.356	25.60	0.363	25.55	0.359
3	QPSK	1	8	25.54	0.358	25.53	0.357	25.49	0.354
3	QPSK	1	14	25.44	0.350	25.34	0.342	25.32	0.340
3	QPSK	8	0	24.58	0.287	24.60	0.288	24.45	0.279
3	QPSK	8	4	24.39	0.275	24.46	0.279	24.47	0.280
3	QPSK	8	7	24.32	0.270	24.41	0.276	24.33	0.271
3	QPSK	15	0	24.56	0.286	24.55	0.285	24.38	0.274
3	16QAM	1	0	24.73	0.297	24.78	0.301	24.66	0.292
3	16QAM	1	8	24.67	0.293	24.76	0.299	24.61	0.289
3	16QAM	1	14	24.54	0.284	24.67	0.293	24.66	0.292
3	16QAM	8	0	23.50	0.224	23.46	0.222	23.55	0.226
3	16QAM	8	4	23.55	0.226	23.60	0.229	23.48	0.223
3	16QAM	8	7	23.35	0.216	23.28	0.213	23.50	0.224
3	16QAM	15	0	23.50	0.224	23.33	0.215	23.34	0.216
3	64QAM	1	0	23.60	0.229	23.74	0.237	23.60	0.229
3	64QAM	1	8	23.50	0.224	23.61	0.230	23.40	0.219
3	64QAM	1	14	23.45	0.221	23.65	0.232	23.40	0.219
3	64QAM	8	0	22.36	0.172	22.67	0.185	22.48	0.177
3	64QAM	8	4	22.31	0.170	22.58	0.181	22.33	0.171
3	64QAM	8	7	22.34	0.171	22.43	0.175	22.35	0.172
3	64QAM	15	0	22.32	0.171	22.32	0.171	22.33	0.171



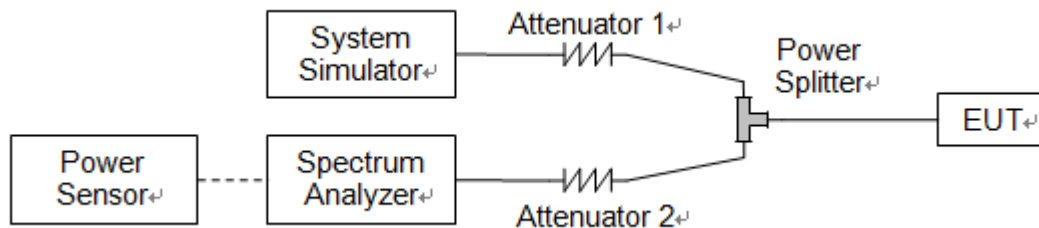
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	25.52	0.356	25.57	0.361	25.49	0.354
1.4	QPSK	1	3	25.55	0.359	25.50	0.355	25.35	0.343
1.4	QPSK	1	5	25.39	0.346	25.45	0.351	25.30	0.339
1.4	QPSK	3	0	24.54	0.284	24.54	0.284	24.57	0.286
1.4	QPSK	3	1	24.49	0.281	24.53	0.284	24.49	0.281
1.4	QPSK	3	3	24.47	0.280	24.45	0.279	24.48	0.281
1.4	QPSK	6	0	24.45	0.279	24.38	0.274	24.33	0.271
1.4	16QAM	1	0	24.68	0.294	24.76	0.299	24.70	0.295
1.4	16QAM	1	3	24.74	0.298	24.75	0.299	24.69	0.294
1.4	16QAM	1	5	24.68	0.294	24.61	0.289	24.73	0.297
1.4	16QAM	3	0	23.46	0.222	23.57	0.228	23.52	0.225
1.4	16QAM	3	1	23.44	0.221	23.60	0.229	23.64	0.231
1.4	16QAM	3	3	23.47	0.222	23.54	0.226	23.49	0.223
1.4	16QAM	6	0	23.52	0.225	23.51	0.224	23.35	0.216
1.4	64QAM	1	0	23.40	0.219	23.57	0.228	23.45	0.221
1.4	64QAM	1	3	23.52	0.225	23.54	0.226	23.40	0.219
1.4	64QAM	1	5	23.40	0.219	23.57	0.228	23.52	0.225
1.4	64QAM	3	0	22.50	0.178	22.54	0.179	22.42	0.175
1.4	64QAM	3	1	22.28	0.169	22.58	0.181	22.22	0.167
1.4	64QAM	3	3	22.23	0.167	22.50	0.178	22.27	0.169
1.4	64QAM	6	0	22.27	0.169	22.32	0.171	22.45	0.176

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	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	1.1047	1.3501	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.1036	1.3394	PASS
B2	1.4	Low	18607	1850.7	64QAM	1.1056	1.3398	PASS
B2	1.4	Mid	18900	1880	QPSK	1.1036	1.3627	PASS
B2	1.4	Mid	18900	1880	16QAM	1.1066	1.3854	PASS
B2	1.4	Mid	18900	1880	64QAM	1.0986	1.3547	PASS
B2	1.4	High	19193	1909.3	QPSK	1.0991	1.3378	PASS
B2	1.4	High	19193	1909.3	16QAM	1.1058	1.3564	PASS
B2	1.4	High	19193	1909.3	64QAM	1.0980	1.3563	PASS
B2	3	Low	18615	1851.5	QPSK	2.7275	3.0853	PASS
B2	3	Low	18615	1851.5	16QAM	2.7206	3.0808	PASS
B2	3	Low	18615	1851.5	64QAM	2.7127	3.0629	PASS
B2	3	Mid	18900	1880	QPSK	2.7067	3.0490	PASS
B2	3	Mid	18900	1880	16QAM	2.7096	3.0677	PASS
B2	3	Mid	18900	1880	64QAM	2.7034	3.0709	PASS
B2	3	High	19185	1908.5	QPSK	2.7131	3.0646	PASS
B2	3	High	19185	1908.5	16QAM	2.7195	3.0667	PASS
B2	3	High	19185	1908.5	64QAM	2.7134	3.0432	PASS
B2	5	Low	18625	1852.5	QPSK	4.5111	5.1569	PASS
B2	5	Low	18625	1852.5	16QAM	4.5030	5.1549	PASS
B2	5	Low	18625	1852.5	64QAM	4.5110	5.1372	PASS
B2	5	Mid	18900	1880	QPSK	4.5122	5.1234	PASS
B2	5	Mid	18900	1880	16QAM	4.5216	5.0840	PASS
B2	5	Mid	18900	1880	64QAM	4.5127	5.1497	PASS
B2	5	High	19175	1907.5	QPSK	4.5111	5.1662	PASS
B2	5	High	19175	1907.5	16QAM	4.5036	5.1309	PASS
B2	5	High	19175	1907.5	64QAM	4.5127	5.1292	PASS
B2	10	Low	18650	1855	QPSK	8.9989	10.0036	PASS
B2	10	Low	18650	1855	16QAM	9.0000	10.0150	PASS
B2	10	Low	18650	1855	64QAM	8.9936	9.9241	PASS
B2	10	Mid	18900	1880	QPSK	9.0106	10.0832	PASS
B2	10	Mid	18900	1880	16QAM	9.0012	10.1014	PASS
B2	10	Mid	18900	1880	64QAM	9.0166	10.0810	PASS
B2	10	High	19150	1905	QPSK	8.9850	10.0168	PASS
B2	10	High	19150	1905	16QAM	9.0034	10.0684	PASS



B2	10	High	19150	1905	64QAM	8.9969	9.9768	PASS
B2	15	Low	18675	1857.5	QPSK	13.503	15.030	PASS
B2	15	Low	18675	1857.5	16QAM	13.483	14.935	PASS
B2	15	Low	18675	1857.5	64QAM	13.477	14.899	PASS
B2	15	Mid	18900	1880	QPSK	13.459	14.866	PASS
B2	15	Mid	18900	1880	16QAM	13.452	14.903	PASS
B2	15	Mid	18900	1880	64QAM	13.449	14.793	PASS
B2	15	High	19125	1902.5	QPSK	13.429	14.881	PASS
B2	15	High	19125	1902.5	16QAM	13.464	14.676	PASS
B2	15	High	19125	1902.5	64QAM	13.445	14.722	PASS
B2	20	Low	18700	1860	QPSK	18.014	19.782	PASS
B2	20	Low	18700	1860	16QAM	18.042	19.800	PASS
B2	20	Low	18700	1860	64QAM	18.043	19.712	PASS
B2	20	Mid	18900	1880	QPSK	17.944	19.589	PASS
B2	20	Mid	18900	1880	16QAM	17.917	19.716	PASS
B2	20	Mid	18900	1880	64QAM	17.905	19.613	PASS
B2	20	High	19100	1900	QPSK	17.990	19.784	PASS
B2	20	High	19100	1900	16QAM	17.962	19.818	PASS
B2	20	High	19100	1900	64QAM	17.906	19.777	PASS
B4	1.4	Low	19957	1710.7	QPSK	1.1070	1.3503	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.0997	1.3849	PASS
B4	1.4	Low	19957	1710.7	64QAM	1.1027	1.3710	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.0973	1.3415	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.1062	1.3634	PASS
B4	1.4	Mid	20175	1732.5	64QAM	1.1042	1.3463	PASS
B4	1.4	High	20393	1754.3	QPSK	1.0981	1.3445	PASS
B4	1.4	High	20393	1754.3	16QAM	1.1100	1.3561	PASS
B4	1.4	High	20393	1754.3	64QAM	1.0990	1.3447	PASS
B4	3	Low	19965	1711.5	QPSK	2.7022	3.0362	PASS
B4	3	Low	19965	1711.5	16QAM	2.7251	3.0963	PASS
B4	3	Low	19965	1711.5	64QAM	2.7154	3.0747	PASS
B4	3	Mid	20175	1732.5	QPSK	2.7111	3.0733	PASS
B4	3	Mid	20175	1732.5	16QAM	2.7221	3.0502	PASS
B4	3	Mid	20175	1732.5	64QAM	2.7059	3.0344	PASS
B4	3	High	20385	1753.5	QPSK	2.7115	3.0683	PASS
B4	3	High	20385	1753.5	16QAM	2.7076	3.0405	PASS
B4	3	High	20385	1753.5	64QAM	2.7112	3.0270	PASS
B4	5	Low	19975	1712.5	QPSK	4.5073	5.1346	PASS



B4	5	Low	19975	1712.5	16QAM	4.5150	5.1043	PASS
B4	5	Low	19975	1712.5	64QAM	4.5137	5.0878	PASS
B4	5	Mid	20175	1732.5	QPSK	4.5344	5.1796	PASS
B4	5	Mid	20175	1732.5	16QAM	4.5239	5.1086	PASS
B4	5	Mid	20175	1732.5	64QAM	4.5289	5.1071	PASS
B4	5	High	20375	1752.5	QPSK	4.5148	5.1742	PASS
B4	5	High	20375	1752.5	16QAM	4.5177	5.0812	PASS
B4	5	High	20375	1752.5	64QAM	4.5121	5.0354	PASS
B4	10	Low	20000	1715	QPSK	8.9968	10.0092	PASS
B4	10	Low	20000	1715	16QAM	8.9956	10.0179	PASS
B4	10	Low	20000	1715	64QAM	9.0199	10.0627	PASS
B4	10	Mid	20175	1732.5	QPSK	9.0053	10.0644	PASS
B4	10	Mid	20175	1732.5	16QAM	9.0325	10.0573	PASS
B4	10	Mid	20175	1732.5	64QAM	9.0188	9.9024	PASS
B4	10	High	20350	1750	QPSK	8.9992	10.0779	PASS
B4	10	High	20350	1750	16QAM	8.9922	10.0869	PASS
B4	10	High	20350	1750	64QAM	8.9902	9.9983	PASS
B4	15	Low	20025	1717.5	QPSK	13.495	14.966	PASS
B4	15	Low	20025	1717.5	16QAM	13.486	14.945	PASS
B4	15	Low	20025	1717.5	64QAM	13.485	14.837	PASS
B4	15	Mid	20175	1732.5	QPSK	13.517	15.006	PASS
B4	15	Mid	20175	1732.5	16QAM	13.520	14.910	PASS
B4	15	Mid	20175	1732.5	64QAM	13.498	14.959	PASS
B4	15	High	20325	1747.5	QPSK	13.506	14.862	PASS
B4	15	High	20325	1747.5	16QAM	13.488	14.876	PASS
B4	15	High	20325	1747.5	64QAM	13.500	14.872	PASS
B4	20	Low	20050	1720	QPSK	18.006	19.796	PASS
B4	20	Low	20050	1720	16QAM	17.987	20.074	PASS
B4	20	Low	20050	1720	64QAM	18.000	19.786	PASS
B4	20	Mid	20175	1732.5	QPSK	18.019	19.998	PASS
B4	20	Mid	20175	1732.5	16QAM	18.012	19.893	PASS
B4	20	Mid	20175	1732.5	64QAM	18.031	19.675	PASS
B4	20	High	20300	1745	QPSK	17.956	19.742	PASS
B4	20	High	20300	1745	16QAM	18.001	19.890	PASS
B4	20	High	20300	1745	64QAM	17.954	19.781	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B5	1.4	Low	20407	824.7	QPSK	1.1006	1.3630	PASS
B5	1.4	Low	20407	824.7	16QAM	1.1076	1.3590	PASS
B5	1.4	Low	20407	824.7	64QAM	1.1044	1.3731	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.1041	1.3583	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.1157	1.3438	PASS
B5	1.4	Mid	20525	836.5	64QAM	1.1059	1.3320	PASS
B5	1.4	High	20643	848.3	QPSK	1.1042	1.3982	PASS
B5	1.4	High	20643	848.3	16QAM	1.1046	1.3749	PASS
B5	1.4	High	20643	848.3	64QAM	1.1061	1.3825	PASS
B5	3	Low	20415	825.5	QPSK	2.7126	3.0715	PASS
B5	3	Low	20415	825.5	16QAM	2.7145	3.0571	PASS
B5	3	Low	20415	825.5	64QAM	2.7131	3.0773	PASS
B5	3	Mid	20525	836.5	QPSK	2.7168	3.0314	PASS
B5	3	Mid	20525	836.5	16QAM	2.7196	3.1233	PASS
B5	3	Mid	20525	836.5	64QAM	2.7097	3.0415	PASS
B5	3	High	20635	847.5	QPSK	2.7210	3.0752	PASS
B5	3	High	20635	847.5	16QAM	2.7159	3.0790	PASS
B5	3	High	20635	847.5	64QAM	2.7168	3.0137	PASS
B5	5	Low	20425	826.5	QPSK	4.5197	5.1511	PASS
B5	5	Low	20425	826.5	16QAM	4.5073	5.1063	PASS
B5	5	Low	20425	826.5	64QAM	4.5151	5.1855	PASS
B5	5	Mid	20525	836.5	QPSK	4.5187	5.1532	PASS
B5	5	Mid	20525	836.5	16QAM	4.5193	5.1037	PASS
B5	5	Mid	20525	836.5	64QAM	4.5111	5.0678	PASS
B5	5	High	20625	846.5	QPSK	4.5225	5.0902	PASS
B5	5	High	20625	846.5	16QAM	4.5157	5.0885	PASS
B5	5	High	20625	846.5	64QAM	4.5125	5.1720	PASS
B5	10	Low	20450	829	QPSK	9.0258	10.1309	PASS
B5	10	Low	20450	829	16QAM	8.9967	10.0739	PASS
B5	10	Low	20450	829	64QAM	9.0050	10.0049	PASS
B5	10	Mid	20525	836.5	QPSK	9.0199	10.0842	PASS
B5	10	Mid	20525	836.5	16QAM	8.9968	10.0182	PASS
B5	10	Mid	20525	836.5	64QAM	8.9955	10.0560	PASS
B5	10	High	20600	844	QPSK	8.9806	9.9838	PASS
B5	10	High	20600	844	16QAM	8.9916	10.0051	PASS



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B5	10	High	20600	844	64QAM	9.0132	9.9606	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B7	5	Low	20775	2502.5	QPSK	4.5303	5.0849	PASS
B7	5	Low	20775	2502.5	16QAM	4.5155	5.1674	PASS
B7	5	Low	20775	2502.5	64QAM	4.5129	5.1460	PASS
B7	5	Mid	21100	2535	QPSK	4.5152	5.1456	PASS
B7	5	Mid	21100	2535	16QAM	4.5138	5.1614	PASS
B7	5	Mid	21100	2535	64QAM	4.5181	5.1139	PASS
B7	5	High	21425	2567.5	QPSK	4.5166	5.1462	PASS
B7	5	High	21425	2567.5	16QAM	4.5194	5.1097	PASS
B7	5	High	21425	2567.5	64QAM	4.5200	5.1335	PASS
B7	10	Low	20800	2505	QPSK	9.0134	10.0307	PASS
B7	10	Low	20800	2505	16QAM	9.0297	10.1587	PASS
B7	10	Low	20800	2505	64QAM	9.0281	9.9986	PASS
B7	10	Mid	21100	2535	QPSK	9.0196	10.0780	PASS
B7	10	Mid	21100	2535	16QAM	9.0144	10.0322	PASS
B7	10	Mid	21100	2535	64QAM	8.9988	10.0333	PASS
B7	10	High	21400	2565	QPSK	9.0159	9.9968	PASS
B7	10	High	21400	2565	16QAM	9.0036	9.9340	PASS
B7	10	High	21400	2565	64QAM	9.0090	10.0049	PASS
B7	15	Low	20825	2507.5	QPSK	13.501	14.880	PASS
B7	15	Low	20825	2507.5	16QAM	13.500	14.936	PASS
B7	15	Low	20825	2507.5	64QAM	13.475	15.058	PASS
B7	15	Mid	21100	2535	QPSK	13.489	14.810	PASS
B7	15	Mid	21100	2535	16QAM	13.497	14.904	PASS
B7	15	Mid	21100	2535	64QAM	13.504	14.801	PASS
B7	15	High	21375	2562.5	QPSK	13.506	14.926	PASS
B7	15	High	21375	2562.5	16QAM	13.520	14.806	PASS
B7	15	High	21375	2562.5	64QAM	13.527	14.869	PASS
B7	20	Low	20850	2510	QPSK	18.013	19.773	PASS
B7	20	Low	20850	2510	16QAM	17.995	19.729	PASS
B7	20	Low	20850	2510	64QAM	18.001	19.800	PASS
B7	20	Mid	21100	2535	QPSK	17.995	19.888	PASS
B7	20	Mid	21100	2535	16QAM	18.017	19.742	PASS
B7	20	Mid	21100	2535	64QAM	17.977	19.798	PASS
B7	20	High	21350	2560	QPSK	18.023	19.790	PASS
B7	20	High	21350	2560	16QAM	18.020	19.864	PASS



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B7	20	High	21350	2560	64QAM	18.042	19.880	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B12	1.4	Low	23017	699.7	QPSK	1.1001	1.3416	PASS
B12	1.4	Low	23017	699.7	16QAM	1.1075	1.3638	PASS
B12	1.4	Low	23017	699.7	64QAM	1.1018	1.3634	PASS
B12	1.4	Mid	23095	707.5	QPSK	1.1027	1.3619	PASS
B12	1.4	Mid	23095	707.5	16QAM	1.1081	1.3616	PASS
B12	1.4	Mid	23095	707.5	64QAM	1.1059	1.3696	PASS
B12	1.4	High	23173	715.3	QPSK	1.1015	1.3589	PASS
B12	1.4	High	23173	715.3	16QAM	1.1072	1.3747	PASS
B12	1.4	High	23173	715.3	64QAM	1.1004	1.3520	PASS
B12	3	Low	23025	700.5	QPSK	2.7151	3.0358	PASS
B12	3	Low	23025	700.5	16QAM	2.7246	3.0566	PASS
B12	3	Low	23025	700.5	64QAM	2.7149	3.0639	PASS
B12	3	Mid	23095	707.5	QPSK	2.7136	3.0657	PASS
B12	3	Mid	23095	707.5	16QAM	2.7153	3.0289	PASS
B12	3	Mid	23095	707.5	64QAM	2.7142	3.0667	PASS
B12	3	High	23165	714.5	QPSK	2.7123	3.0527	PASS
B12	3	High	23165	714.5	16QAM	2.7097	3.0697	PASS
B12	3	High	23165	714.5	64QAM	2.7110	3.0404	PASS
B12	5	Low	23035	701.5	QPSK	4.5108	5.2625	PASS
B12	5	Low	23035	701.5	16QAM	4.5152	5.1379	PASS
B12	5	Low	23035	701.5	64QAM	4.5214	5.1675	PASS
B12	5	Mid	23095	707.5	QPSK	4.5156	5.1994	PASS
B12	5	Mid	23095	707.5	16QAM	4.5086	5.0821	PASS
B12	5	Mid	23095	707.5	64QAM	4.5115	5.0865	PASS
B12	5	High	23155	713.5	QPSK	4.5278	5.1173	PASS
B12	5	High	23155	713.5	16QAM	4.5205	5.0923	PASS
B12	5	High	23155	713.5	64QAM	4.5139	5.1503	PASS
B12	10	Low	23060	704	QPSK	8.9816	10.0437	PASS
B12	10	Low	23060	704	16QAM	8.9809	9.9839	PASS
B12	10	Low	23060	704	64QAM	9.0147	9.9572	PASS
B12	10	Mid	23095	707.5	QPSK	9.0121	10.1024	PASS
B12	10	Mid	23095	707.5	16QAM	8.9919	10.0054	PASS
B12	10	Mid	23095	707.5	64QAM	8.9969	9.9738	PASS
B12	10	High	23130	711	QPSK	9.0120	9.9884	PASS
B12	10	High	23130	711	16QAM	9.0124	10.0773	PASS



B12	10	High	23130	711	64QAM	9.0156	9.9830	PASS
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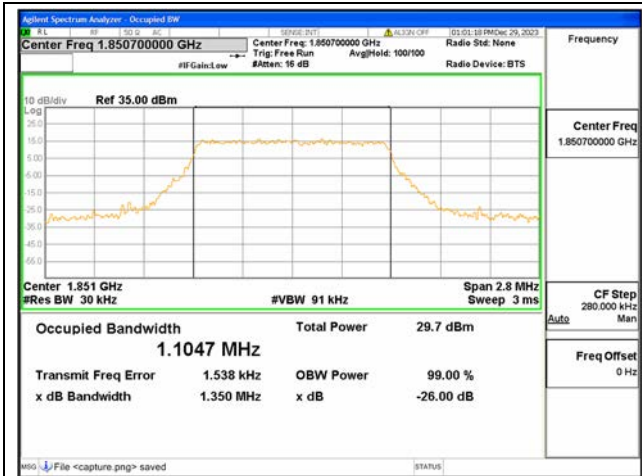
LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B13	5	Low	23205	779.5	QPSK	4.4983	5.0619	PASS
B13	5	Low	23205	779.5	16QAM	4.5134	5.1089	PASS
B13	5	Low	23205	779.5	64QAM	4.5155	5.1128	PASS
B13	5	Mid	23230	782	QPSK	4.5213	5.2019	PASS
B13	5	Mid	23230	782	16QAM	4.5307	5.0614	PASS
B13	5	Mid	23230	782	64QAM	4.5223	5.1398	PASS
B13	5	High	23255	784.5	QPSK	4.5197	5.1995	PASS
B13	5	High	23255	784.5	16QAM	4.5147	5.0550	PASS
B13	5	High	23255	784.5	64QAM	4.5082	5.0831	PASS
B13	10	Mid	23230	782	QPSK	8.9963	9.9081	PASS
B13	10	Mid	23230	782	16QAM	8.9840	9.9873	PASS
B13	10	Mid	23230	782	64QAM	8.9952	9.9505	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B66	1.4	Low	131979	1710.7	QPSK	1.1008	1.3708	PASS
B66	1.4	Low	131979	1710.7	16QAM	1.1081	1.3440	PASS
B66	1.4	Low	131979	1710.7	64QAM	1.1092	1.3743	PASS
B66	1.4	Mid	132322	1745	QPSK	1.1025	1.3560	PASS
B66	1.4	Mid	132322	1745	16QAM	1.1102	1.3591	PASS
B66	1.4	Mid	132322	1745	64QAM	1.0998	1.3228	PASS
B66	1.4	High	132665	1779.3	QPSK	1.1033	1.3564	PASS
B66	1.4	High	132665	1779.3	16QAM	1.1079	1.3675	PASS
B66	1.4	High	132665	1779.3	64QAM	1.1006	1.3703	PASS
B66	3	Low	131987	1711.5	QPSK	2.7153	3.0537	PASS
B66	3	Low	131987	1711.5	16QAM	2.7122	3.0591	PASS
B66	3	Low	131987	1711.5	64QAM	2.7070	3.0452	PASS
B66	3	Mid	132322	1745	QPSK	2.7108	3.0496	PASS
B66	3	Mid	132322	1745	16QAM	2.7089	3.0390	PASS
B66	3	Mid	132322	1745	64QAM	2.7262	3.0613	PASS
B66	3	High	132657	1778.5	QPSK	2.7092	3.0511	PASS
B66	3	High	132657	1778.5	16QAM	2.7211	3.0883	PASS
B66	3	High	132657	1778.5	64QAM	2.7064	3.0651	PASS
B66	5	Low	131997	1712.5	QPSK	4.5164	5.2063	PASS
B66	5	Low	131997	1712.5	16QAM	4.5215	5.1493	PASS
B66	5	Low	131997	1712.5	64QAM	4.5088	5.0756	PASS
B66	5	Mid	132322	1745	QPSK	4.5390	5.1542	PASS
B66	5	Mid	132322	1745	16QAM	4.5237	5.1459	PASS
B66	5	Mid	132322	1745	64QAM	4.5272	5.1375	PASS
B66	5	High	132647	1777.5	QPSK	4.5071	5.0861	PASS
B66	5	High	132647	1777.5	16QAM	4.5100	5.0909	PASS
B66	5	High	132647	1777.5	64QAM	4.5326	5.0143	PASS
B66	10	Low	132022	1715	QPSK	9.0324	10.1066	PASS
B66	10	Low	132022	1715	16QAM	8.9983	9.9130	PASS
B66	10	Low	132022	1715	64QAM	9.0015	10.1078	PASS
B66	10	Mid	132322	1745	QPSK	9.0033	10.0062	PASS
B66	10	Mid	132322	1745	16QAM	8.9995	9.8969	PASS
B66	10	Mid	132322	1745	64QAM	8.9990	10.0496	PASS
B66	10	High	132622	1775	QPSK	8.9967	10.1255	PASS
B66	10	High	132622	1775	16QAM	9.0079	9.9845	PASS



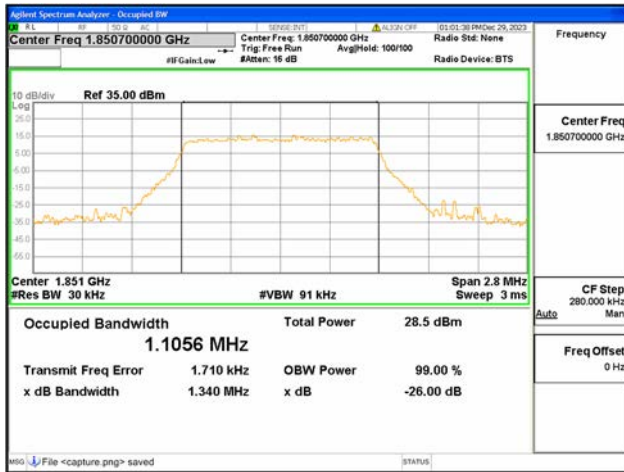
B66	10	High	132622	1775	64QAM	8.9910	9.9296	PASS
B66	15	Low	132047	1717.5	QPSK	13.494	14.840	PASS
B66	15	Low	132047	1717.5	16QAM	13.475	14.943	PASS
B66	15	Low	132047	1717.5	64QAM	13.504	14.823	PASS
B66	15	Mid	132322	1745	QPSK	13.489	14.934	PASS
B66	15	Mid	132322	1745	16QAM	13.494	15.028	PASS
B66	15	Mid	132322	1745	64QAM	13.467	14.981	PASS
B66	15	High	132597	1772.5	QPSK	13.472	14.890	PASS
B66	15	High	132597	1772.5	16QAM	13.454	14.907	PASS
B66	15	High	132597	1772.5	64QAM	13.449	14.798	PASS
B66	20	Low	132072	1720	QPSK	18.015	19.642	PASS
B66	20	Low	132072	1720	16QAM	18.025	19.752	PASS
B66	20	Low	132072	1720	64QAM	18.020	19.804	PASS
B66	20	Mid	132322	1745	QPSK	17.992	19.726	PASS
B66	20	Mid	132322	1745	16QAM	18.001	19.876	PASS
B66	20	Mid	132322	1745	64QAM	17.961	19.618	PASS
B66	20	High	132572	1770	QPSK	18.024	19.803	PASS
B66	20	High	132572	1770	16QAM	17.974	19.652	PASS
B66	20	High	132572	1770	64QAM	17.988	19.762	PASS



B2 / 1.4MHz / QPSK/ Low CH



B2 / 1.4MHz / 16QAM/ Low CH



B2 / 1.4MHz / 64QAM/ Low CH



B2 / 1.4MHz / QPSK/ Mid CH



B2 / 1.4MHz / 16QAM/ Mid CH



B2 / 1.4MHz / 64QAM/ Mid CH



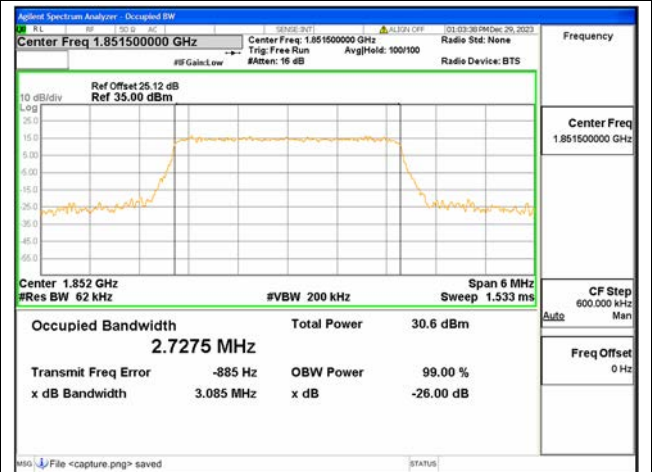
B2 / 1.4MHz / QPSK/ High CH



B2 / 1.4MHz / 16QAM/ High CH



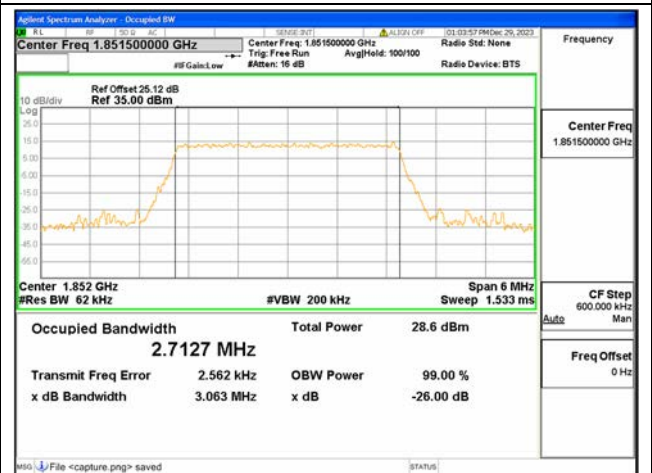
B2 / 1.4MHz / 64QAM/ High CH



B2 / 3MHz / QPSK/ Low CH



B2 / 3MHz / 16QAM/ Low CH



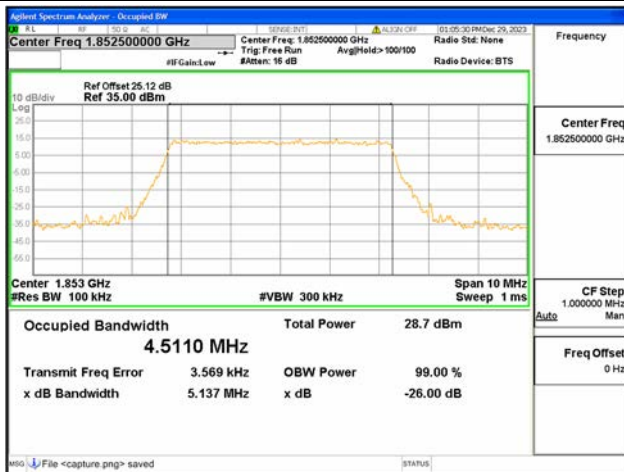
B2 / 3MHz / 64QAM/ Low CH



B2 / 5MHz / QPSK/ Low CH



B2 / 5MHz / 16QAM/ Low CH



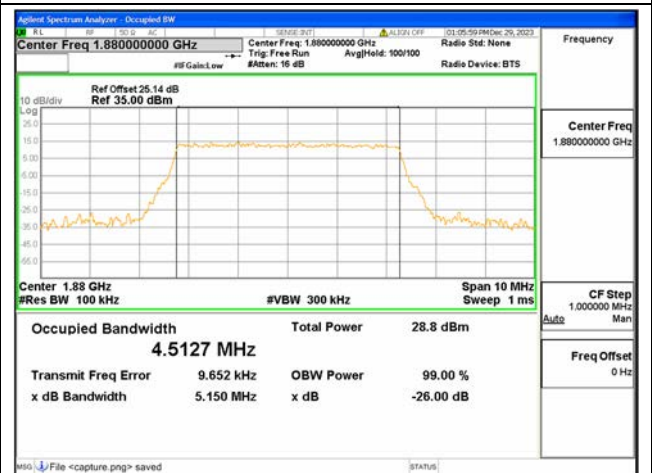
B2 / 5MHz / 64QAM/ Low CH



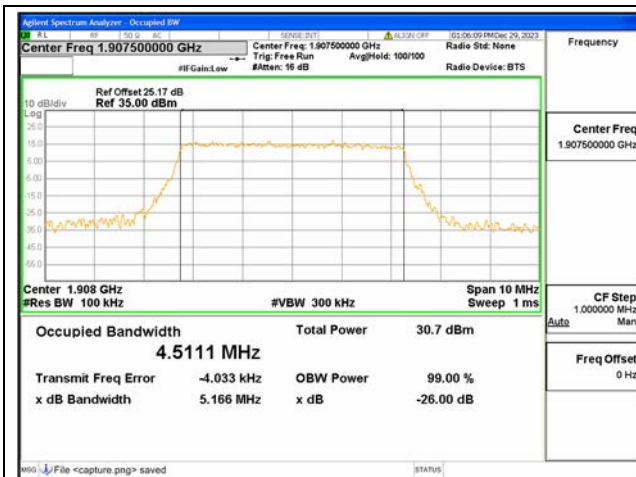
B2 / 5MHz / QPSK/ Mid CH



B2 / 5MHz / 16QAM/ Mid CH



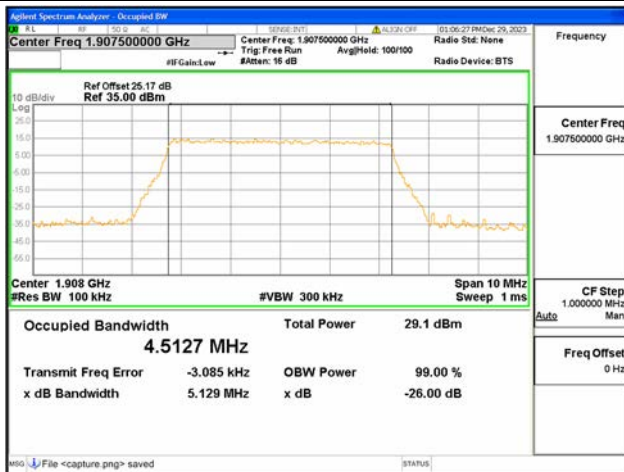
B2 / 5MHz / 64QAM/ Mid CH



B2 / 5MHz / QPSK/ High CH



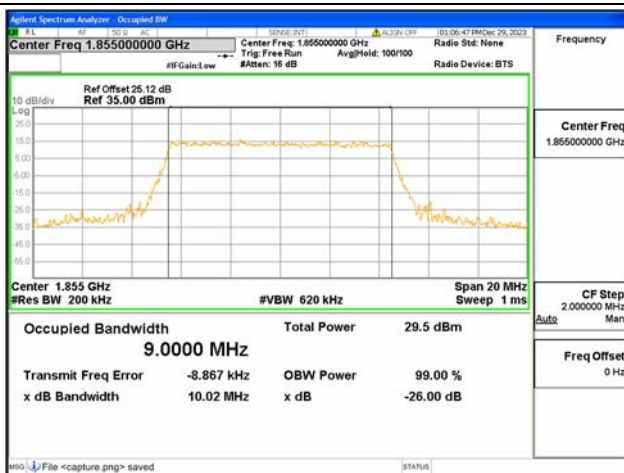
B2 / 5MHz / 16QAM/ High CH



B2 / 5MHz / 64QAM/ High CH



B2 / 10MHz / QPSK/ Low CH



B2 / 10MHz / 16QAM/ Low CH



B2 / 10MHz / 64QAM/ Low CH



B2 / 10MHz / QPSK/ Mid CH



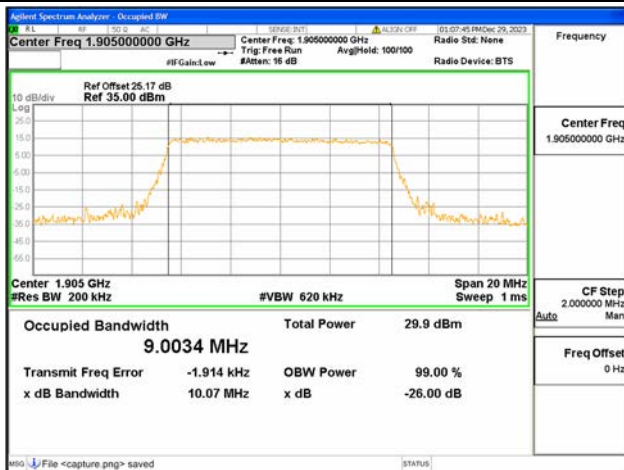
B2 / 10MHz / 16QAM/ Mid CH



B2 / 10MHz / 64QAM/ Mid CH



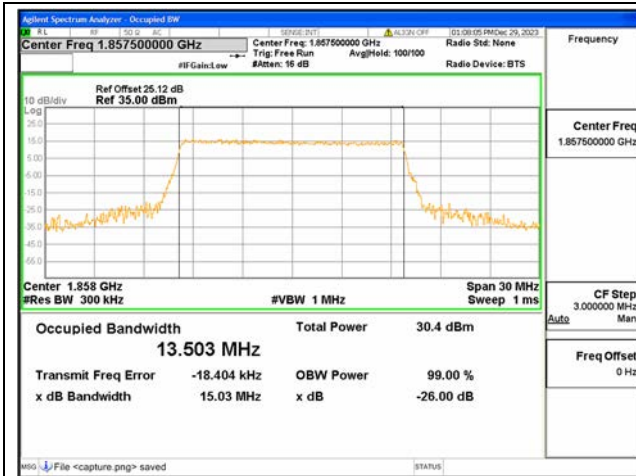
B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 16QAM/ High CH



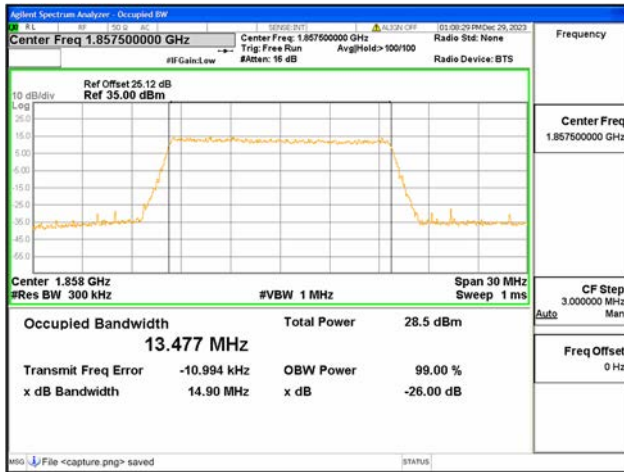
B2 / 10MHz / 64QAM/ High CH



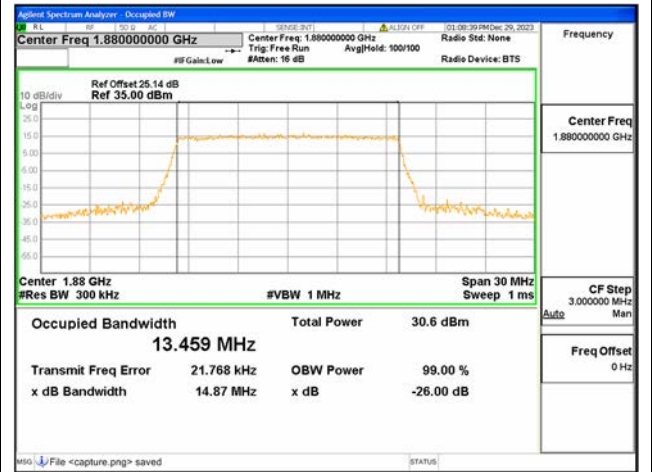
B2 / 15MHz / QPSK/ Low CH



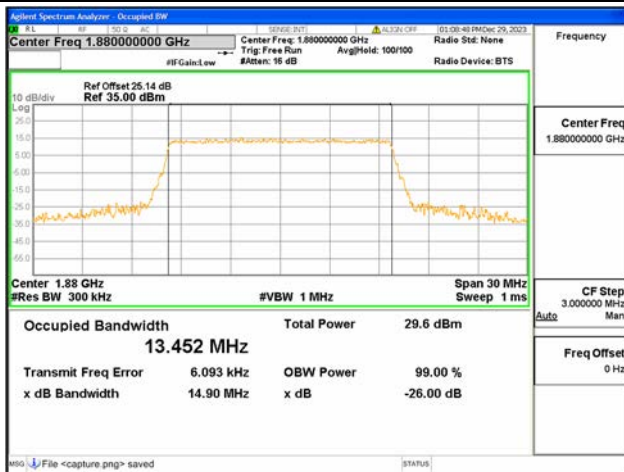
B2 / 15MHz / 16QAM/ Low CH



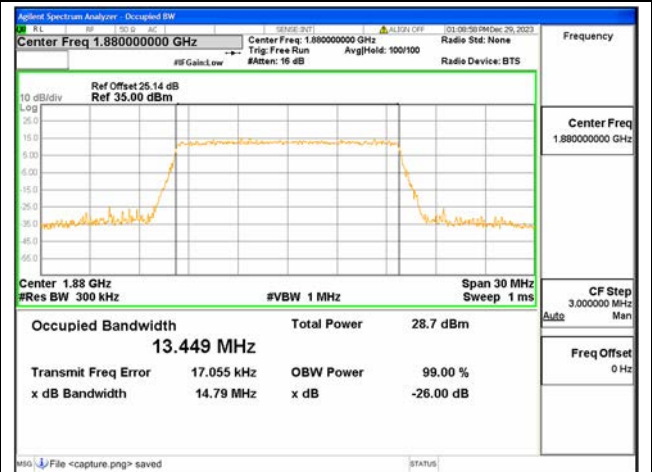
B2 / 15MHz / 64QAM/ Low CH



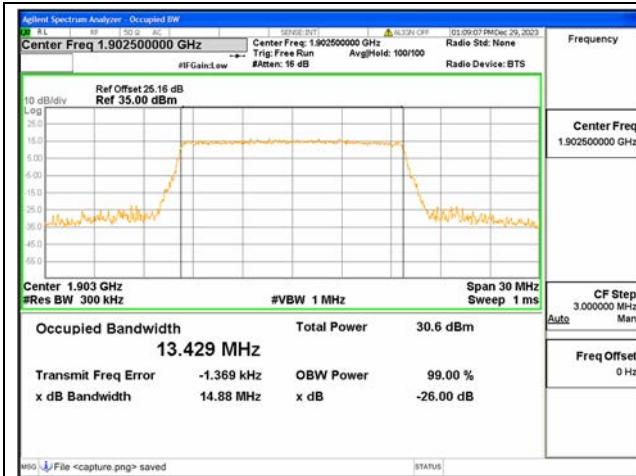
B2 / 15MHz / QPSK/ Mid CH



B2 / 15MHz / 16QAM/ Mid CH



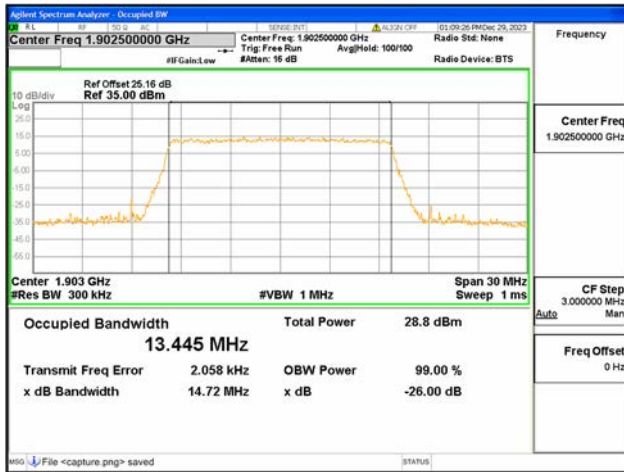
B2 / 15MHz / 64QAM/ Mid CH



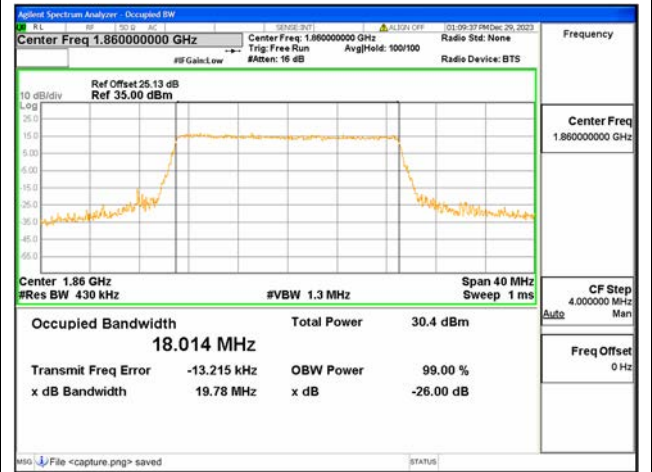
B2 / 15MHz / QPSK/ High CH



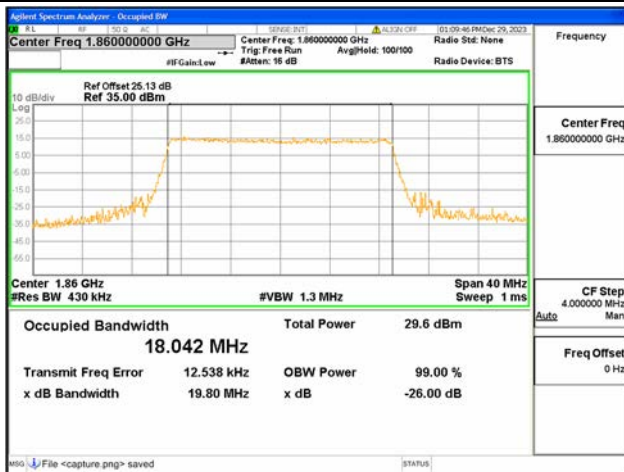
B2 / 15MHz / 16QAM/ High CH



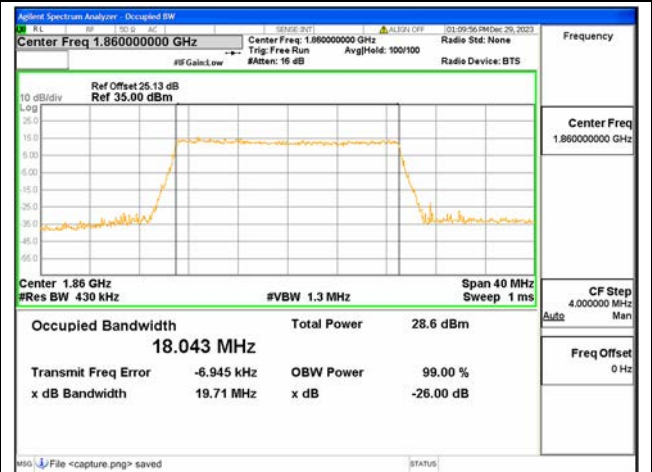
B2 / 15MHz / 64QAM/ High CH



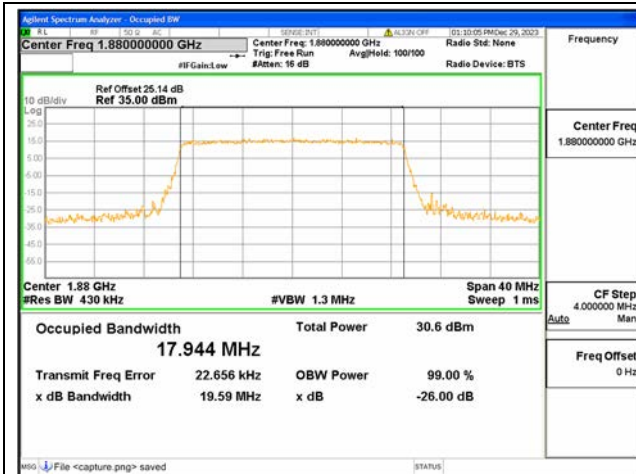
B2 / 20MHz / QPSK/ Low CH



B2 / 20MHz / 16QAM/ Low CH



B2 / 20MHz / 64QAM/ Low CH



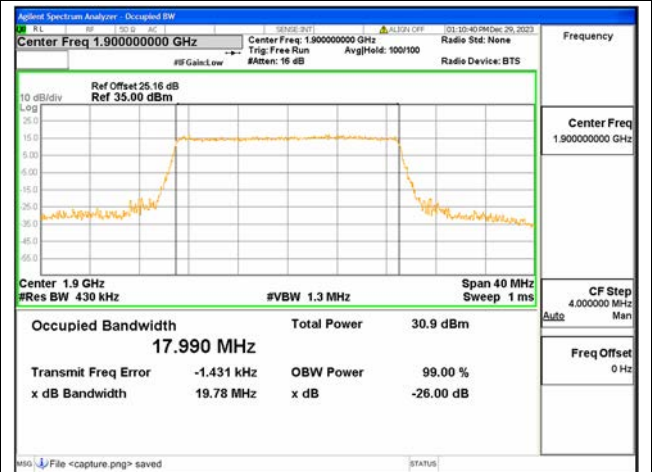
B2 / 20MHz / QPSK/ Mid CH



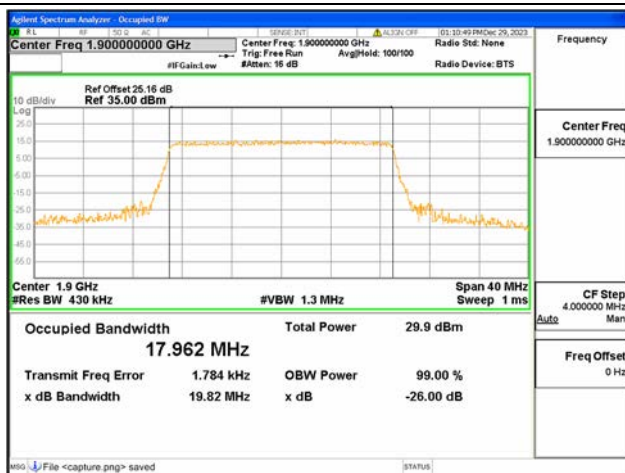
B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / 64QAM/ Mid CH



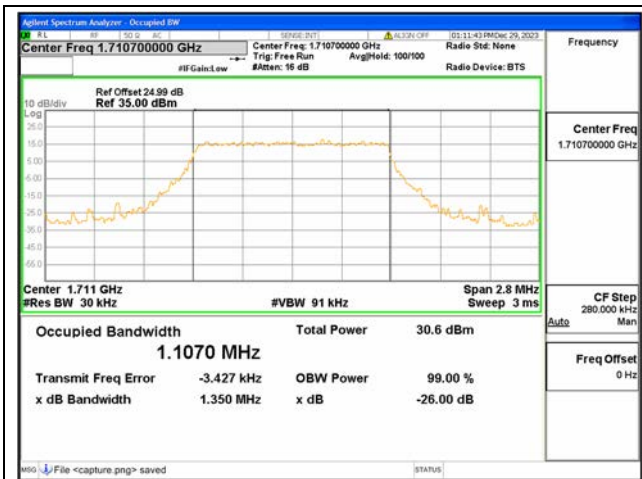
B2 / 20MHz / QPSK/ High CH



B2 / 20MHz / 16QAM/ High CH



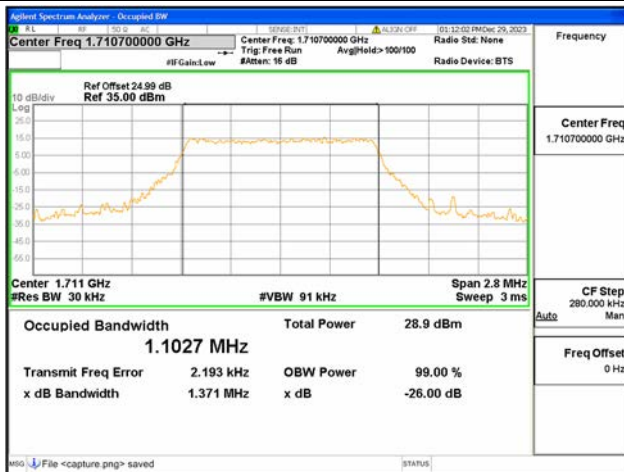
B2 / 20MHz / 64QAM/ High CH



B4 / 1.4MHz / QPSK/ Low CH



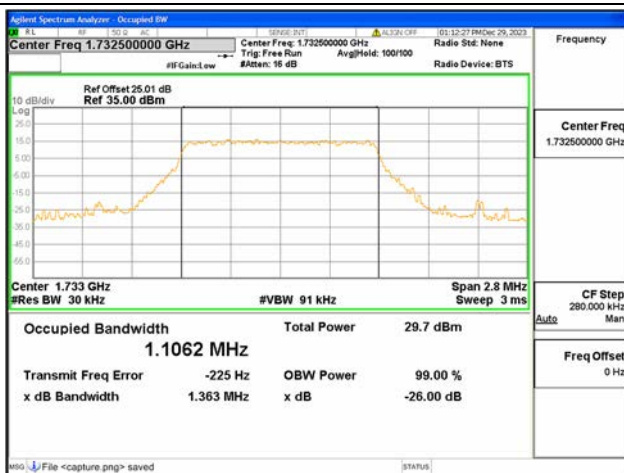
B4 / 1.4MHz / 16QAM/ Low CH



B4 / 1.4MHz / 64QAM/ Low CH



B4 / 1.4MHz / QPSK/ Mid CH



B4 / 1.4MHz / 16QAM/ Mid CH



B4 / 1.4MHz / 64QAM/ Mid CH



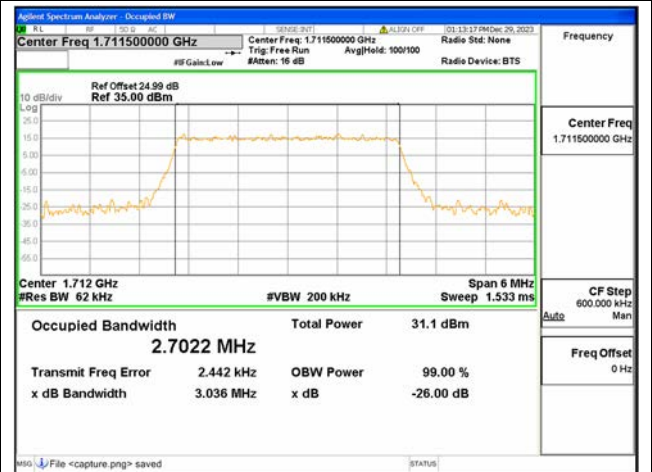
B4 / 1.4MHz / QPSK/ High CH



B4 / 1.4MHz / 16QAM/ High CH



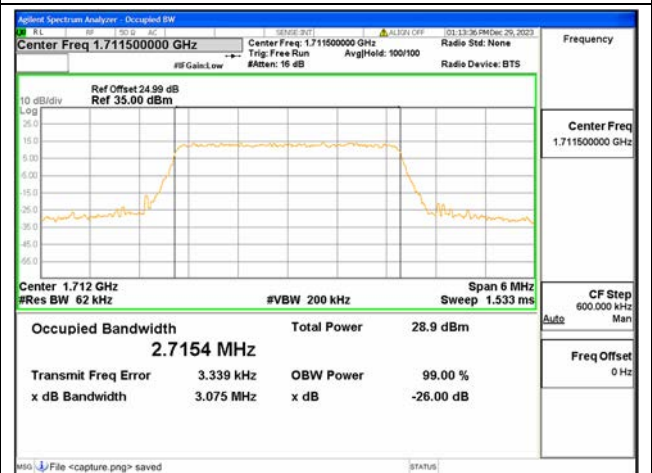
B4 / 1.4MHz / 64QAM/ High CH



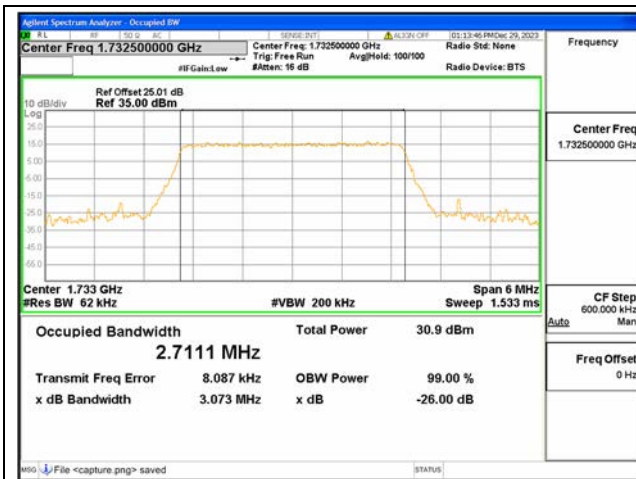
B4 / 3MHz / QPSK/ Low CH



B4 / 3MHz / 16QAM/ Low CH



B4 / 3MHz / 64QAM/ Low CH



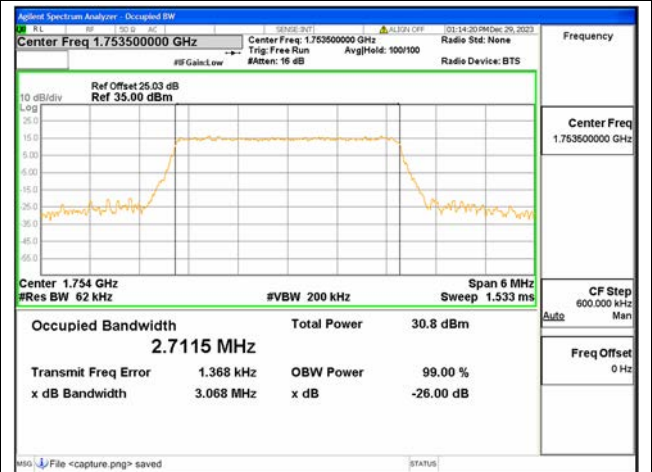
B4 / 3MHz / QPSK/ Mid CH



B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / 64QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH



B4 / 3MHz / 16QAM/ High CH



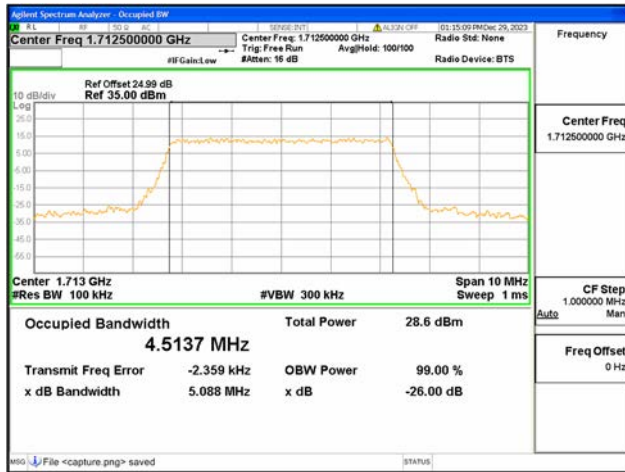
B4 / 3MHz / 64QAM/ High CH



B4 / 5MHz / QPSK/ Low CH



B4 / 5MHz / 16QAM/ Low CH



B4 / 5MHz / 64QAM/ Low CH



B4 / 5MHz / QPSK/ Mid CH



B4 / 5MHz / 16QAM/ Mid CH



B4 / 5MHz / 64QAM/ Mid CH



B4 / 5MHz / QPSK/ High CH



B4 / 5MHz / 16QAM/ High CH



B4 / 5MHz / 64QAM/ High CH



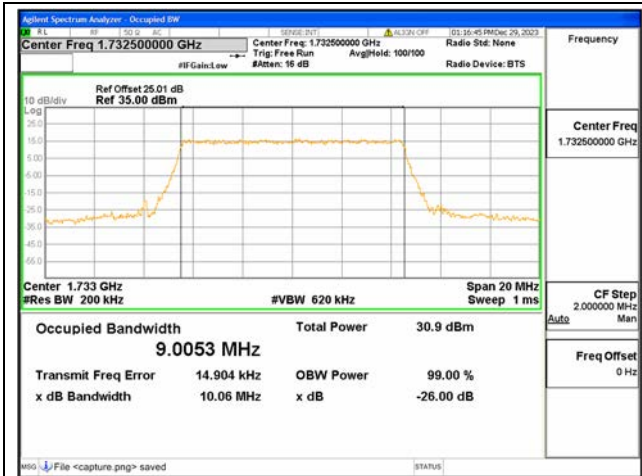
B4 / 10MHz / QPSK/ Low CH



B4 / 10MHz / 16QAM/ Low CH



B4 / 10MHz / 64QAM/ Low CH



B4 / 10MHz / QPSK/ Mid CH



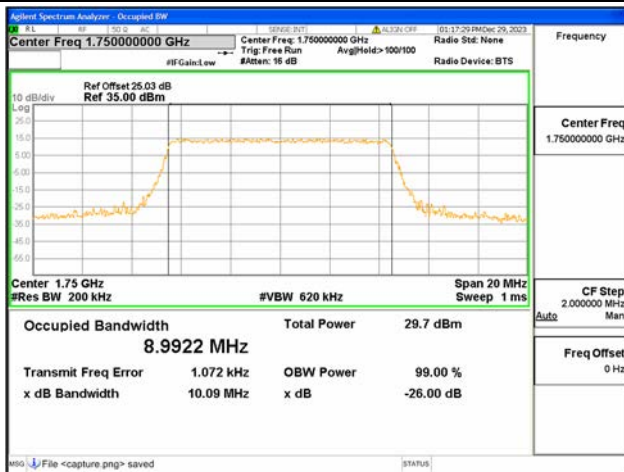
B4 / 10MHz / 16QAM/ Mid CH



B4 / 10MHz / 64QAM/ Mid CH



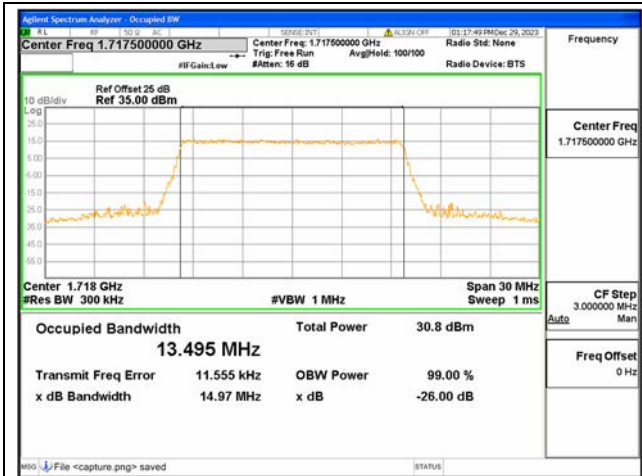
B4 / 10MHz / QPSK/ High CH



B4 / 10MHz / 16QAM/ High CH



B4 / 10MHz / 64QAM/ High CH



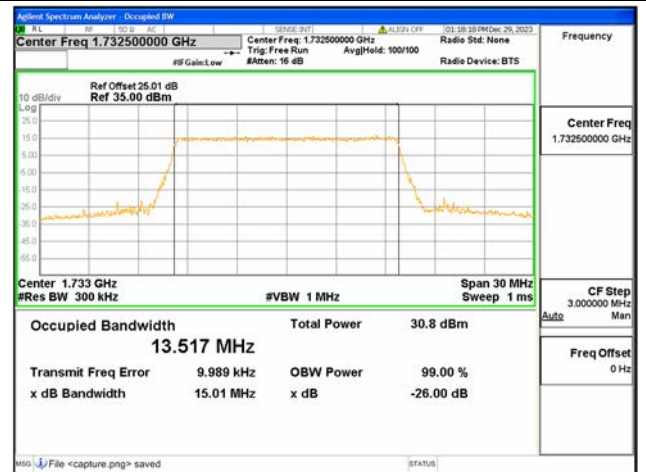
B4 / 15MHz / QPSK/ Low CH



B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / 64QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



B4 / 15MHz / 16QAM/ Mid CH



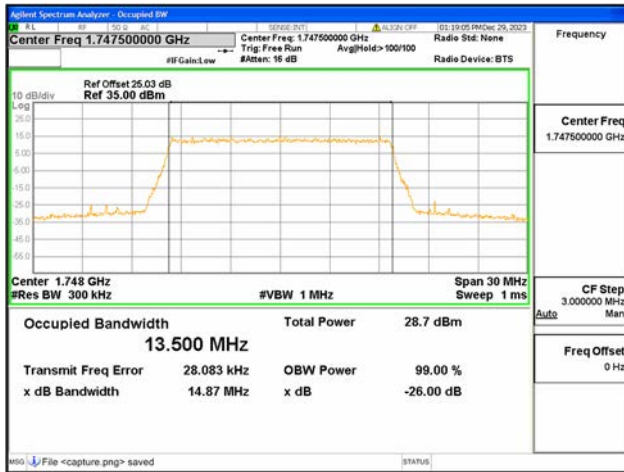
B4 / 15MHz / 64QAM/ Mid CH



B4 / 15MHz / QPSK/ High CH



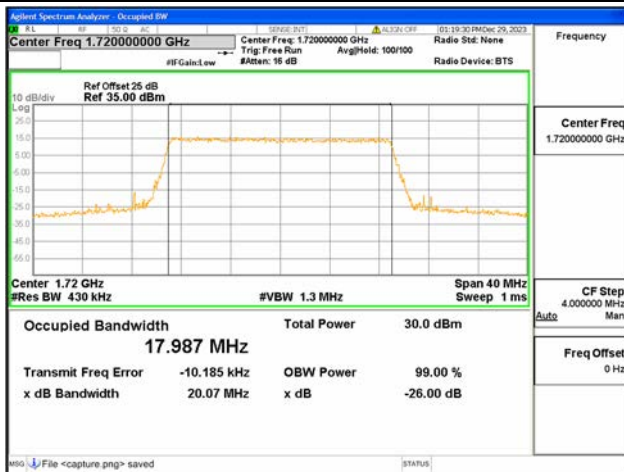
B4 / 15MHz / 16QAM/ High CH



B4 / 15MHz / 64QAM/ High CH



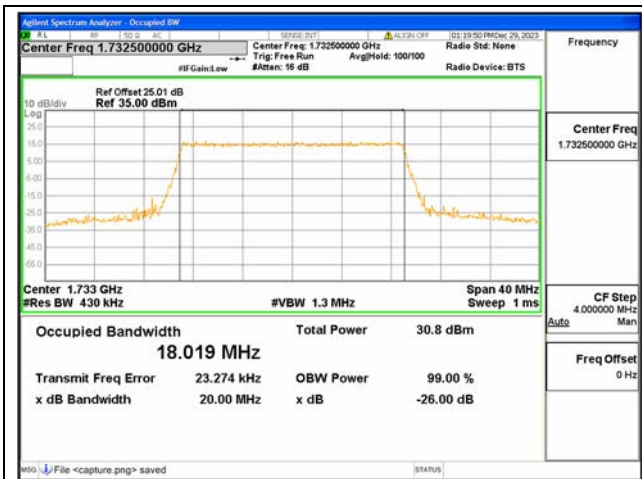
B4 / 20MHz / QPSK/ Low CH



B4 / 20MHz / 16QAM/ Low CH



B4 / 20MHz / 64QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



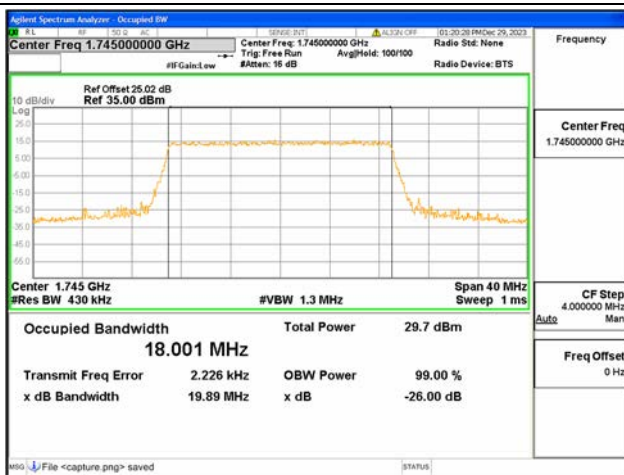
B4 / 20MHz / 16QAM/ Mid CH



B4 / 20MHz / 64QAM/ Mid CH



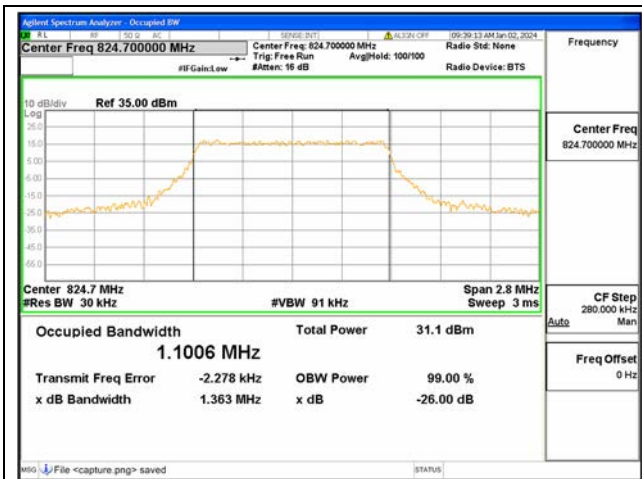
B4 / 20MHz / QPSK/ High CH



B4 / 20MHz / 16QAM/ High CH



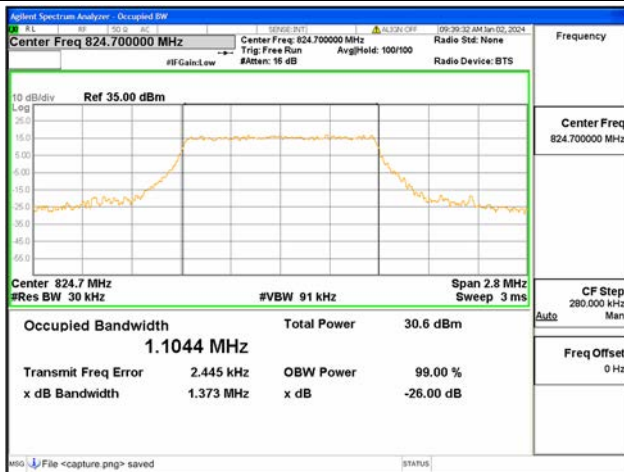
B4 / 20MHz / 64QAM/ High CH



B5 / 1.4MHz / QPSK/ Low CH



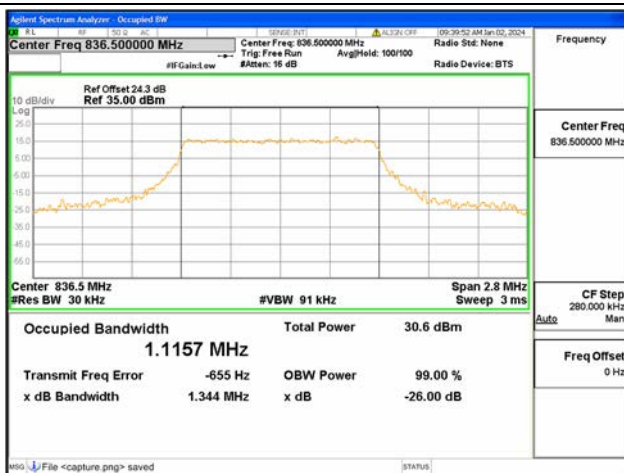
B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / 64QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



B5 / 1.4MHz / 16QAM/ Mid CH



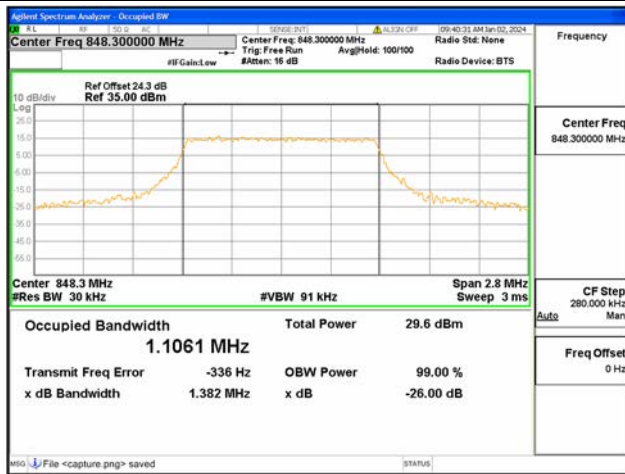
B5 / 1.4MHz / 64QAM/ Mid CH



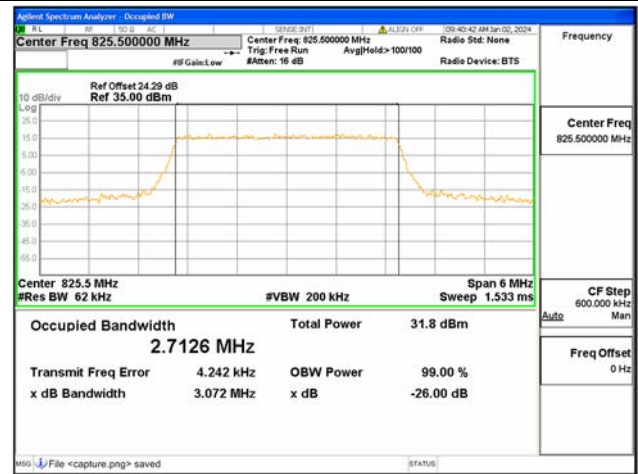
B5 / 1.4MHz / QPSK/ High CH



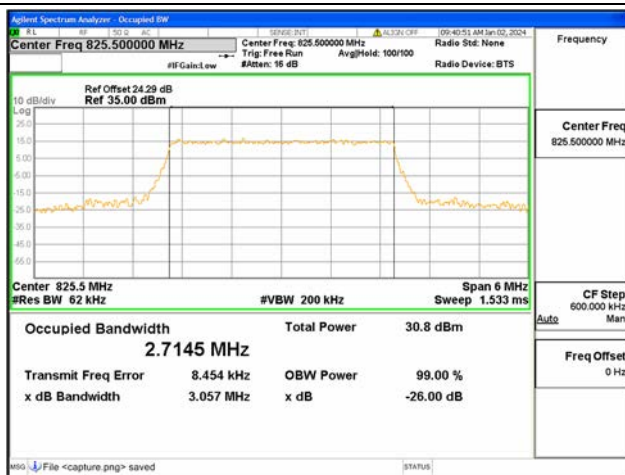
B5 / 1.4MHz / 16QAM/ High CH



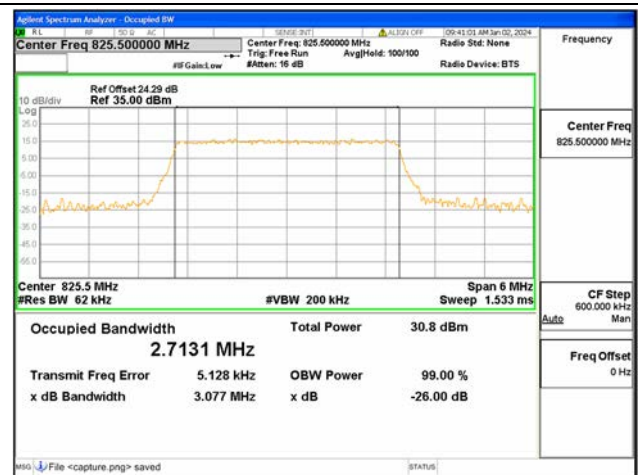
B5 / 1.4MHz / 64QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



B5 / 3MHz / 16QAM/ Low CH



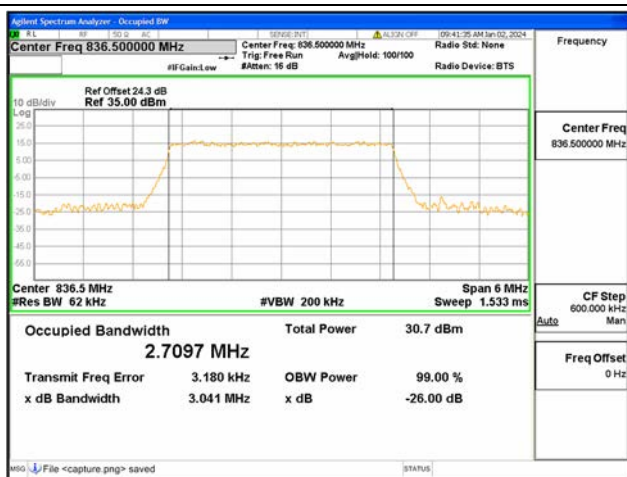
B5 / 3MHz / 64QAM/ Low CH



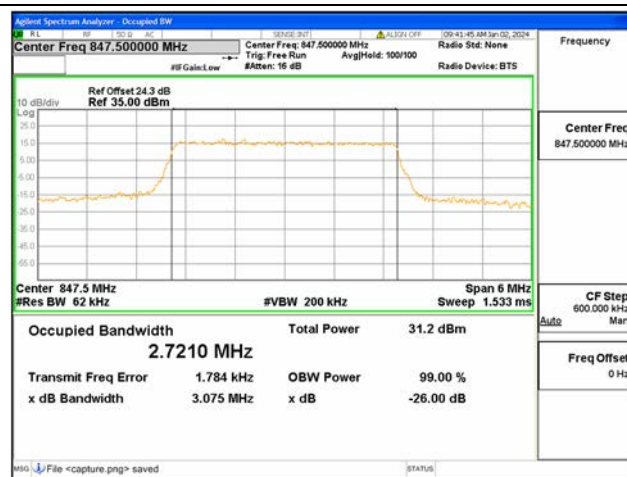
B5 / 3MHz / QPSK/ Mid CH



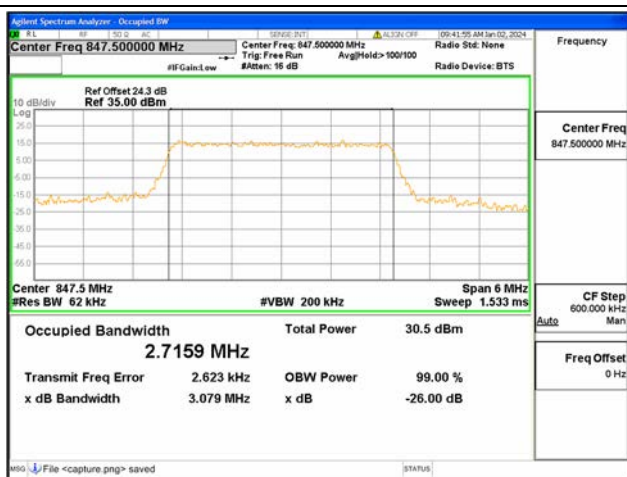
B5 / 3MHz / 16QAM/ Mid CH



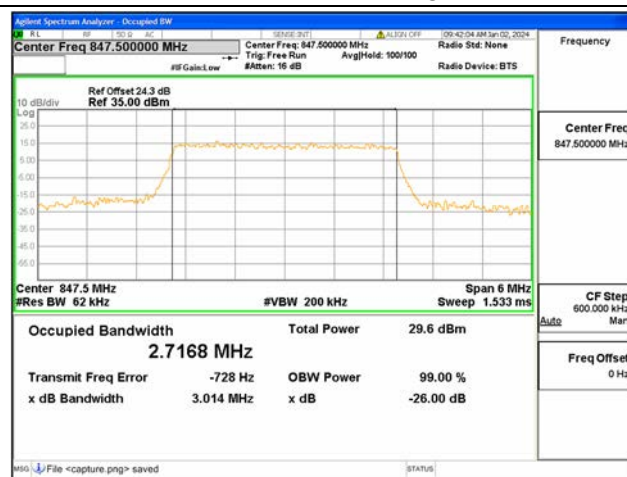
B5 / 3MHz / 64QAM/ Mid CH



B5 / 3MHz / QPSK/ High CH



B5 / 3MHz / 16QAM/ High CH



B5 / 3MHz / 64QAM/ High CH