



TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Mobile Phone

MODEL NAME : G50 PLUS

BRAND NAME : BLU

FCC ID : YHLBLUG50PS

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

RECEIPT DATE : 2020-03-17

TEST DATE : 2020-03-17 to 2020-04-20

ISSUE DATE : 2020-04-21

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REPORT No. : SZ19120148W02

Change History		
Version	Date	Reason for change
1.0	2020-04-21	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

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

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone	
Hardware Version:	FS169-MB-v0.3	
Software Version:	BLU-G0350WW-V10.0.03.00-GENERIC 04-03-2020 11:25	
Modulation Type:	QPSK, 16QAM,64QAM	
Operation Band:	Band 2 / 4 / 5 / 7 / 12 / 17	
Frequency Range:	LTE Band 2	Tx: 1850MHz -1910MHz
		Rx: 1930MHz -1990MHz
	LTE Band 4	Tx: 1710MHz -1755MHz
		Rx: 2110MHz - 2155MHz
	LTE Band 5	Tx: 824MHz -849MHz
		Rx: 869MHz – 894MHz
	LTE Band 7	Tx:2500MHz – 2670MHz
		Rx:2620MHz – 2690MHz
	LTE Band 12	Tx: 699MHz - 716MHz
		Tx: 729MHz - 746MHz
	LTE Band 17	Tx: 704MHz - 716MHz
		Tx: 734MHz - 746MHz



Channel Bandwidth:	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 4	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 5	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 7	5MHz,10MHz,15MHz,20MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
Antenna Type:	Fixed Internal	
Antenna Gain:	LTE Band 2	-1.20 dBi
	LTE Band 4	-1.00 dBi
	LTE Band 5	-2.00 dBi
	LTE Band 7	-1.60 dBi
	LTE Band 12	-1.70 dBi
	LTE Band 17	-1.70 dBi
Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C906143400P
	Capacity:	4000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.40V
	AC Adapter 1	
	Brand Name:	BLU
	Model No.:	US-WW-2000
	Rated Input:	100-240V~50/60Hz 0.4A
	Rated Output:	5.0V---2000mA

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



1.3. Maximum ERP/EIRP and Emission Designator

LTE Band2		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.131	0.105	0.087	18M0G7D	18M0W7D	18M0D7W	
15	0.126	0.100	0.083	13M5G7D	13M5W7D	13M5D7W	
10	0.127	0.106	0.084	9M04G7D	8M99W7D	9M01D7W	
5	0.130	0.106	0.084	4M52G7D	4M51W7D	4M51D7W	
3	0.125	0.104	0.084	2M72G7D	2M72W7D	2M73D7W	
1.4	0.130	0.108	0.082	1M10G7D	1M10W7D	1M10D7W	
LTE Band4		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.146	0.124	0.097	18M0G7D	18M0W7D	18M0D7W	
15	0.142	0.120	0.097	13M5G7D	13M5W7D	13M5D7W	
10	0.144	0.124	0.095	9M03G7D	8M99W7D	9M01D7W	
5	0.142	0.124	0.096	4M53G7D	4M52W7D	4M51D7W	
3	0.143	0.122	0.099	2M72G7D	2M72W7D	2M73D7W	
1.4	0.141	0.124	0.094	1M10G7D	1M10W7D	1M10D7W	
LTE Band5		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.072	0.059	0.045	9M02G7D	8M99W7D	9M00D7W	
5	0.070	0.058	0.047	4M52G7D	4M52W7D	4M52D7W	
3	0.067	0.061	0.046	2M72G7D	2M73W7D	2M73D7W	
1.4	0.069	0.061	0.047	1M10G7D	1M10W7D	1M10D7W	
LTE Band7		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.053	0.042	0.042	18M1G7D	18M0W7D	18M1D7W	
15	0.052	0.041	0.042	13M5G7D	13M5W7D	13M6D7W	
10	0.052	0.042	0.040	9M04G7D	8M99W7D	9M01D7W	
5	0.053	0.041	0.043	4M51G7D	4M52W7D	4M51D7W	
LTE Band12		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.079	0.065	0.050	9M04G7D	9M01W7D	9M00D7W	
5	0.078	0.064	0.049	4M52G7D	4M52W7D	4M52D7W	
3	0.076	0.060	0.051	2M72G7D	2M72W7D	2M72D7W	
1.4	0.080	0.065	0.050	1M10G7D	1M10W7D	1M10D7W	



LTE Band17	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM
10	0.079	0.063	0.050	9M04G7D	8M99W7D	9M01D7W
5	0.076	0.063	0.051	4M53G7D	4M52W7D	4M52D7W



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(c)(10) 27.50(d)(4),27.50(h)(2) 27.50(a)(3)	Transmitter Conducted Output Power and ERP/EIRP	Apr 20, 2020	Gao Mingzhou Peng Xuewei	PASS	No deviation
2.1049	Occupied Bandwidth	Mar 17 to Apr 15, 2020	Gao Mingzhou	PASS	No deviation
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Mar 17 to Apr 15, 2020	Gao Mingzhou	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Mar 17 to Apr 15, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Mar 17 to Apr 15, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Mar 17 to Apr 15, 2020	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	Apr 4, 2020	Peng Xuewei	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.



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 and 27H&L&M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

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 EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

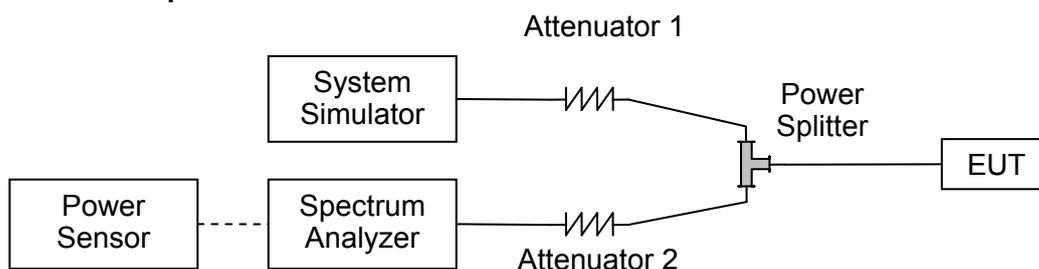
According to FCC section 27.50 (d) for LTE Band 4, fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

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

According to FCC section 27.50 (h) for LTE Band 7, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

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

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 50 Ohm; 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.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

2.1.4. Result



Conducted Output Power:

LTE Band2						
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	22.34	22.38	22.36
20	QPSK	1	49	22.23	22.12	22.14
20	QPSK	1	99	22.03	22.11	22.04
20	QPSK	50	0	21.16	21.32	21.17
20	QPSK	50	24	21.18	21.18	21.13
20	QPSK	50	50	21.22	21.15	21.24
20	QPSK	100	0	21.21	21.12	21.21
20	16QAM	1	0	21.11	21.09	21.11
20	16QAM	1	49	21.42	21.12	21.22
20	16QAM	1	99	21.22	21.21	21.31
20	16QAM	50	0	20.36	20.31	20.25
20	16QAM	50	24	20.22	20.43	20.35
20	16QAM	50	50	20.23	20.27	20.39
20	16QAM	100	0	20.26	20.36	20.44
20	64QAM	1	0	20.56	20.55	20.62
20	64QAM	1	49	20.22	20.31	20.55
20	64QAM	1	99	20.21	20.12	20.22
20	64QAM	50	0	20.36	20.31	20.41
20	64QAM	50	24	20.42	20.34	20.37
20	64QAM	50	50	20.28	20.44	20.45
20	64QAM	100	0	20.31	20.35	20.31



LTE Band2						
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	21.97	22.03	21.98
15	QPSK	1	37	21.99	22.11	21.99
15	QPSK	1	74	22.08	22.21	22.14
15	QPSK	36	0	21.15	21.25	21.28
15	QPSK	36	20	21.21	21.21	21.18
15	QPSK	36	39	21.25	21.32	21.34
15	QPSK	75	0	21.11	21.14	21.31
15	16QAM	1	0	21.03	21.05	21.12
15	16QAM	1	37	21.14	21.22	21.09
15	16QAM	1	74	21.22	21.22	21.04
15	16QAM	36	0	20.35	20.4	20.25
15	16QAM	36	20	20.23	20.16	20.31
15	16QAM	36	39	20.29	20.31	20.31
15	16QAM	75	0	20.26	20.37	20.34
15	64QAM	1	0	20.22	20.21	20.22
15	64QAM	1	37	20.11	20.32	20.23
15	64QAM	1	74	20.32	20.32	20.34
15	64QAM	36	0	20.41	20.23	20.37
15	64QAM	36	20	20.41	20.28	20.19
15	64QAM	36	39	20.31	20.37	20.24
15	64QAM	75	0	20.22	20.37	20.16



LTE Band2						
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	22.07	22.12	22.13
10	QPSK	1	25	21.98	22.08	22.03
10	QPSK	1	49	22.25	21.98	22.07
10	QPSK	25	0	21.21	21.22	21.11
10	QPSK	25	12	21.12	21.22	21.21
10	QPSK	25	25	21.24	21.2	21.12
10	QPSK	50	0	21.17	21.27	21.11
10	16QAM	1	0	21.12	21.06	21.45
10	16QAM	1	25	21.02	21.08	21.16
10	16QAM	1	49	21.47	21.42	21.38
10	16QAM	25	0	20.16	20.28	20.24
10	16QAM	25	12	20.08	20.23	20.34
10	16QAM	25	25	20.31	20.3	20.37
10	16QAM	50	0	20.27	20.27	20.31
10	64QAM	1	0	20.12	20.22	20.22
10	64QAM	1	25	20.22	20.25	20.12
10	64QAM	1	49	20.33	20.12	20.36
10	64QAM	25	0	20.39	20.37	20.39
10	64QAM	25	12	20.44	20.35	20.13
10	64QAM	25	25	20.14	20.29	20.31
10	64QAM	50	0	20.34	20.41	20.29



LTE Band2						
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	22.14	22.19	22.19
5	QPSK	1	12	22.09	22.11	22.29
5	QPSK	1	24	22.15	22.22	22.34
5	QPSK	12	0	21.25	21.21	21.22
5	QPSK	12	7	21.16	21.07	21.21
5	QPSK	12	13	21.26	21.17	21.23
5	QPSK	25	0	21.23	21.19	21.31
5	16QAM	1	0	21.14	21.34	21.16
5	16QAM	1	12	21.18	21.38	21.18
5	16QAM	1	24	21.33	21.06	21.44
5	16QAM	12	0	20.34	20.25	20.29
5	16QAM	12	7	20.42	20.36	20.25
5	16QAM	12	13	20.35	20.14	20.18
5	16QAM	25	0	20.15	20.13	20.16
5	64QAM	1	0	20.16	20.45	20.22
5	64QAM	1	12	20.18	20.11	20.14
5	64QAM	1	24	20.42	20.12	20.12
5	64QAM	12	0	20.36	20.15	20.32
5	64QAM	12	7	20.14	20.12	20.22
5	64QAM	12	13	20.24	20.15	20.28
5	64QAM	25	0	20.42	20.41	20.39



LTE Band2						
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	21.99	22.14	21.93
3	QPSK	1	8	22.11	22.06	22.04
3	QPSK	1	14	22.17	22.02	22.03
3	QPSK	8	0	21.21	21.16	21.12
3	QPSK	8	4	21.15	21.03	21.11
3	QPSK	8	7	21.07	21.12	21.24
3	QPSK	15	0	21.15	21.13	21.28
3	16QAM	1	0	21.22	21.12	21.17
3	16QAM	1	8	21.35	21.15	21.09
3	16QAM	1	14	21.32	21.22	21.14
3	16QAM	8	0	20.32	20.38	20.38
3	16QAM	8	4	20.43	20.43	20.41
3	16QAM	8	7	20.38	20.24	20.32
3	16QAM	15	0	20.43	20.34	20.41
3	64QAM	1	0	20.28	20.21	20.16
3	64QAM	1	8	20.15	20.16	20.13
3	64QAM	1	14	20.17	20.12	20.14
3	64QAM	8	0	20.24	20.07	20.36
3	64QAM	8	4	20.16	20.02	20.17
3	64QAM	8	7	20.11	20.14	20.28
3	64QAM	15	0	20.31	20.45	20.39



LTE Band2						
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	22.17	22.03	22.11
1.4	QPSK	1	3	22.19	22.15	22.05
1.4	QPSK	1	5	22.19	22.09	22.13
1.4	QPSK	3	0	22.12	22.22	22.18
1.4	QPSK	3	1	22.35	22.24	22.22
1.4	QPSK	3	3	22.29	22.16	22.14
1.4	QPSK	6	0	21.16	21.22	21.04
1.4	16QAM	1	0	21.43	21.16	21.02
1.4	16QAM	1	3	21.39	21.24	21.13
1.4	16QAM	1	5	21.18	21.12	21.13
1.4	16QAM	3	0	21.18	21.23	21.37
1.4	16QAM	3	1	21.14	21.38	21.54
1.4	16QAM	3	3	21.24	21.22	21.41
1.4	16QAM	6	0	20.05	20.19	20.09
1.4	64QAM	1	0	20.15	20.16	20.18
1.4	64QAM	1	3	20.14	20.18	20.16
1.4	64QAM	1	5	20.31	20.15	20.25
1.4	64QAM	3	0	20.27	20.15	20.12
1.4	64QAM	3	1	20.26	20.25	20.13
1.4	64QAM	3	3	20.19	20.22	20.15
1.4	64QAM	6	0	20.34	20.32	20.24



LTE Band4						
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	22.53	22.65	22.54
20	QPSK	1	49	22.23	22.16	22.34
20	QPSK	1	99	22.45	22.27	22.52
20	QPSK	50	0	21.51	21.53	21.37
20	QPSK	50	24	21.31	21.49	21.41
20	QPSK	50	50	21.34	21.41	21.37
20	QPSK	100	0	21.37	21.32	21.33
20	16QAM	1	0	21.55	21.62	21.42
20	16QAM	1	49	21.43	21.56	21.56
20	16QAM	1	99	21.92	21.66	21.66
20	16QAM	50	0	20.61	20.54	20.46
20	16QAM	50	24	20.47	20.48	20.57
20	16QAM	50	50	20.51	20.39	20.48
20	16QAM	100	0	20.48	20.52	20.59
20	64QAM	1	0	20.65	20.66	20.65
20	64QAM	1	49	20.62	20.56	20.85
20	64QAM	1	99	20.72	20.69	20.65
20	64QAM	50	0	20.76	20.62	20.51
20	64QAM	50	24	20.55	20.56	20.54
20	64QAM	50	50	20.54	20.47	20.45
20	64QAM	100	0	20.46	20.51	20.61



LTE Band4						
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	22.38	22.35	22.52
15	QPSK	1	37	22.36	22.21	22.36
15	QPSK	1	74	22.21	22.19	22.27
15	QPSK	36	0	21.42	21.33	21.35
15	QPSK	36	20	21.39	21.45	21.52
15	QPSK	36	39	21.34	21.35	21.42
15	QPSK	75	0	21.46	21.32	21.43
15	16QAM	1	0	21.55	21.62	21.72
15	16QAM	1	37	21.78	21.58	21.78
15	16QAM	1	74	21.69	21.67	21.74
15	16QAM	36	0	20.57	20.55	20.52
15	16QAM	36	20	20.47	20.46	20.49
15	16QAM	36	39	20.35	20.41	20.34
15	16QAM	75	0	20.52	20.51	20.61
15	64QAM	1	0	20.66	20.51	20.74
15	64QAM	1	37	20.88	20.75	20.55
15	64QAM	1	74	20.74	20.59	20.65
15	64QAM	36	0	20.55	20.64	20.52
15	64QAM	36	20	20.51	20.53	20.47
15	64QAM	36	39	20.46	20.52	20.52
15	64QAM	75	0	20.66	20.61	20.58



LTE Band4						
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	22.23	22.37	22.45
10	QPSK	1	25	22.42	22.15	22.58
10	QPSK	1	49	22.34	22.38	22.26
10	QPSK	25	0	21.35	21.39	21.46
10	QPSK	25	12	21.46	21.33	21.49
10	QPSK	25	25	21.39	21.36	21.36
10	QPSK	50	0	21.51	21.43	21.42
10	16QAM	1	0	21.65	21.93	21.77
10	16QAM	1	25	21.91	21.88	21.81
10	16QAM	1	49	21.53	21.62	21.65
10	16QAM	25	0	20.52	20.48	20.46
10	16QAM	25	12	20.59	20.61	20.32
10	16QAM	25	25	20.62	20.42	20.58
10	16QAM	50	0	20.51	20.58	20.51
10	64QAM	1	0	20.56	20.66	20.71
10	64QAM	1	25	20.52	20.58	20.65
10	64QAM	1	49	20.62	20.69	20.79
10	64QAM	25	0	20.63	20.69	20.68
10	64QAM	25	12	20.58	20.53	20.74
10	64QAM	25	25	20.49	20.42	20.59
10	64QAM	50	0	20.63	20.63	20.62



LTE Band4						
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	22.49	22.38	22.35
5	QPSK	1	12	22.45	22.37	22.43
5	QPSK	1	24	22.52	22.45	22.38
5	QPSK	12	0	21.45	21.36	21.41
5	QPSK	12	7	21.52	21.34	21.45
5	QPSK	12	13	21.43	21.51	21.42
5	QPSK	25	0	21.36	21.33	21.47
5	16QAM	1	0	21.54	21.57	21.93
5	16QAM	1	12	21.62	21.82	21.58
5	16QAM	1	24	21.66	21.62	21.75
5	16QAM	12	0	20.62	20.57	20.61
5	16QAM	12	7	20.44	20.55	20.65
5	16QAM	12	13	20.49	20.65	20.51
5	16QAM	25	0	20.81	20.75	20.61
5	64QAM	1	0	20.55	20.58	20.68
5	64QAM	1	12	20.72	20.62	20.58
5	64QAM	1	24	20.62	20.68	20.82
5	64QAM	12	0	20.72	20.79	20.64
5	64QAM	12	7	20.72	20.69	20.53
5	64QAM	12	13	20.56	20.39	20.71
5	64QAM	25	0	20.78	20.58	20.78



LTE Band4						
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	22.17	22.43	22.37
3	QPSK	1	8	22.41	22.55	22.41
3	QPSK	1	14	22.46	22.38	22.42
3	QPSK	8	0	21.42	21.47	21.44
3	QPSK	8	4	21.39	21.39	21.45
3	QPSK	8	7	21.43	21.54	21.52
3	QPSK	15	0	21.33	21.37	21.41
3	16QAM	1	0	21.76	21.55	21.62
3	16QAM	1	8	21.64	21.62	21.87
3	16QAM	1	14	21.61	21.55	21.62
3	16QAM	8	0	20.73	20.74	20.68
3	16QAM	8	4	20.68	20.71	20.59
3	16QAM	8	7	20.58	20.74	20.66
3	16QAM	15	0	20.61	20.75	20.78
3	64QAM	1	0	20.65	20.74	20.55
3	64QAM	1	8	20.64	20.71	20.58
3	64QAM	1	14	20.54	20.72	20.62
3	64QAM	8	0	20.62	20.45	20.54
3	64QAM	8	4	20.52	20.58	20.62
3	64QAM	8	7	20.44	20.58	20.51
3	64QAM	15	0	20.82	20.66	20.95



LTE Band4						
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	22.27	22.45	22.23
1.4	QPSK	1	3	22.24	22.38	22.41
1.4	QPSK	1	5	22.12	22.47	22.23
1.4	QPSK	3	0	22.38	22.37	22.42
1.4	QPSK	3	1	22.37	22.45	22.47
1.4	QPSK	3	3	22.24	22.38	22.48
1.4	QPSK	6	0	21.43	21.37	21.41
1.4	16QAM	1	0	21.56	21.79	21.67
1.4	16QAM	1	3	21.65	21.62	21.56
1.4	16QAM	1	5	21.66	21.71	21.95
1.4	16QAM	3	0	21.73	21.79	21.58
1.4	16QAM	3	1	21.79	21.77	21.64
1.4	16QAM	3	3	21.63	21.66	21.55
1.4	16QAM	6	0	20.34	20.28	20.28
1.4	64QAM	1	0	20.66	20.54	20.55
1.4	64QAM	1	3	20.56	20.68	20.58
1.4	64QAM	1	5	20.75	20.59	20.62
1.4	64QAM	3	0	20.66	20.65	20.59
1.4	64QAM	3	1	20.54	20.58	20.64
1.4	64QAM	3	3	20.68	20.72	20.62
1.4	64QAM	6	0	20.55	20.41	20.53



LTE Band5						
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	22.64	22.74	22.56
10	QPSK	1	25	22.47	22.48	22.49
10	QPSK	1	49	22.47	22.31	22.49
10	QPSK	25	0	21.46	21.57	21.52
10	QPSK	25	12	21.32	21.36	21.51
10	QPSK	25	25	21.33	21.23	21.37
10	QPSK	50	0	21.36	21.37	21.27
10	16QAM	1	0	21.71	21.85	21.56
10	16QAM	1	25	21.63	21.56	21.66
10	16QAM	1	49	21.82	21.62	21.55
10	16QAM	25	0	20.76	20.64	20.56
10	16QAM	25	12	20.78	20.63	20.59
10	16QAM	25	25	20.62	20.71	20.59
10	16QAM	50	0	20.36	20.61	20.35
10	64QAM	1	0	20.62	20.65	20.56
10	64QAM	1	25	20.56	20.71	20.55
10	64QAM	1	49	20.54	20.55	20.62
10	64QAM	25	0	20.58	20.66	20.53
10	64QAM	25	12	20.73	20.59	20.45
10	64QAM	25	25	20.73	20.71	20.73
10	64QAM	50	0	20.68	20.59	20.53



LTE Band5						
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	22.51	22.51	22.36
5	QPSK	1	12	22.63	22.46	22.42
5	QPSK	1	24	22.37	22.43	22.47
5	QPSK	12	0	21.66	21.37	21.53
5	QPSK	12	7	21.4	21.73	21.54
5	QPSK	12	13	21.5	21.42	21.36
5	QPSK	25	0	21.36	21.63	21.35
5	16QAM	1	0	21.62	21.76	21.53
5	16QAM	1	12	21.72	21.65	21.61
5	16QAM	1	24	21.44	21.59	21.73
5	16QAM	12	0	20.75	20.61	20.52
5	16QAM	12	7	20.51	20.68	20.37
5	16QAM	12	13	20.42	20.61	20.34
5	16QAM	25	0	20.73	20.75	20.61
5	64QAM	1	0	20.51	20.71	20.62
5	64QAM	1	12	20.55	20.52	20.56
5	64QAM	1	24	20.62	20.65	20.55
5	64QAM	12	0	20.65	20.84	20.65
5	64QAM	12	7	20.37	20.63	20.47
5	64QAM	12	13	20.42	20.71	20.58
5	64QAM	25	0	20.69	20.76	20.49



LTE Band5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.31	22.18	22.37
3	QPSK	1	8	22.38	22.31	22.44
3	QPSK	1	14	22.39	22.29	22.36
3	QPSK	8	0	21.56	21.45	21.48
3	QPSK	8	4	21.56	21.68	21.47
3	QPSK	8	7	21.51	21.55	21.56
3	QPSK	15	0	21.52	21.51	21.44
3	16QAM	1	0	21.86	21.59	21.51
3	16QAM	1	8	21.81	21.61	21.82
3	16QAM	1	14	21.67	21.97	21.53
3	16QAM	8	0	20.81	20.79	20.51
3	16QAM	8	4	20.79	20.75	20.33
3	16QAM	8	7	20.57	20.78	20.49
3	16QAM	15	0	20.78	20.73	20.39
3	64QAM	1	0	20.55	20.71	20.57
3	64QAM	1	8	20.62	20.81	20.62
3	64QAM	1	14	20.54	20.72	20.72
3	64QAM	8	0	20.71	20.56	20.56
3	64QAM	8	4	20.76	20.65	20.36
3	64QAM	8	7	20.57	20.51	20.37
3	64QAM	15	0	20.82	20.56	20.58



LTE Band5						
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	22.23	22.31	22.31
1.4	QPSK	1	3	22.49	22.24	22.32
1.4	QPSK	1	5	22.33	22.35	22.31
1.4	QPSK	3	0	22.45	22.42	22.38
1.4	QPSK	3	1	22.51	22.43	22.37
1.4	QPSK	3	3	22.55	22.38	22.33
1.4	QPSK	6	0	21.56	21.73	21.32
1.4	16QAM	1	0	21.61	21.69	21.64
1.4	16QAM	1	3	21.66	21.95	21.54
1.4	16QAM	1	5	21.65	21.97	21.62
1.4	16QAM	3	0	21.55	21.85	21.55
1.4	16QAM	3	1	21.68	21.77	21.62
1.4	16QAM	3	3	21.47	21.67	21.61
1.4	16QAM	6	0	20.51	20.24	20.37
1.4	64QAM	1	0	20.46	20.52	20.54
1.4	64QAM	1	3	20.55	20.62	20.62
1.4	64QAM	1	5	20.62	20.84	20.73
1.4	64QAM	3	0	20.56	20.55	20.59
1.4	64QAM	3	1	20.54	20.62	20.62
1.4	64QAM	3	3	20.59	20.54	20.58
1.4	64QAM	6	0	20.64	20.51	20.61



LTE Band7						
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	18.51	18.83	18.49
20	QPSK	1	49	18.46	18.61	18.82
20	QPSK	1	99	18.81	18.75	18.76
20	QPSK	50	0	17.58	17.87	17.76
20	QPSK	50	24	17.66	17.78	17.81
20	QPSK	50	50	17.64	17.49	17.84
20	QPSK	100	0	17.57	17.91	17.91
20	16QAM	1	0	17.51	17.85	17.61
20	16QAM	1	49	17.62	17.87	17.58
20	16QAM	1	99	17.66	17.51	17.62
20	16QAM	50	0	17.76	17.52	17.82
20	16QAM	50	24	17.79	17.78	17.62
20	16QAM	50	50	17.75	17.78	17.68
20	16QAM	100	0	17.68	17.72	17.66
20	64QAM	1	0	17.78	17.44	17.83
20	64QAM	1	49	17.85	17.44	17.76
20	64QAM	1	99	17.79	17.63	17.85
20	64QAM	50	0	16.77	16.81	16.56
20	64QAM	50	24	16.72	16.85	16.89
20	64QAM	50	50	16.54	16.66	16.91
20	64QAM	100	0	16.56	16.74	16.62



LTE Band7						
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	18.42	18.47	18.54
15	QPSK	1	37	18.29	18.61	18.75
15	QPSK	1	74	18.42	18.48	18.64
15	QPSK	36	0	17.64	17.86	17.71
15	QPSK	36	20	17.62	17.79	17.61
15	QPSK	36	39	17.57	17.55	17.72
15	QPSK	75	0	17.77	17.45	17.89
15	16QAM	1	0	17.62	17.52	17.55
15	16QAM	1	37	17.55	17.62	17.54
15	16QAM	1	74	17.49	17.64	17.65
15	16QAM	36	0	17.62	17.55	17.61
15	16QAM	36	20	17.76	17.57	17.76
15	16QAM	36	39	17.68	17.62	17.58
15	16QAM	75	0	17.74	17.63	17.55
15	64QAM	1	0	17.85	17.68	17.62
15	64QAM	1	37	17.81	17.63	17.83
15	64QAM	1	74	17.62	17.84	17.81
15	64QAM	36	0	16.97	16.77	16.84
15	64QAM	36	20	16.81	16.74	16.87
15	64QAM	36	39	16.85	16.81	16.96
15	64QAM	75	0	16.51	16.52	16.55



LTE Band7						
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	18.55	18.47	18.62
10	QPSK	1	25	18.53	18.51	18.58
10	QPSK	1	49	18.51	18.68	18.73
10	QPSK	25	0	17.43	17.44	17.83
10	QPSK	25	12	17.51	17.53	17.86
10	QPSK	25	25	17.43	17.66	17.62
10	QPSK	50	0	17.58	17.71	17.82
10	16QAM	1	0	17.51	17.87	17.62
10	16QAM	1	25	17.62	17.51	17.55
10	16QAM	1	49	17.72	17.58	17.72
10	16QAM	25	0	17.75	17.62	17.68
10	16QAM	25	12	17.65	17.54	17.81
10	16QAM	25	25	17.65	17.77	17.54
10	16QAM	50	0	17.75	17.71	17.77
10	64QAM	1	0	17.62	17.62	17.55
10	64QAM	1	25	17.55	17.56	17.62
10	64QAM	1	49	17.54	17.54	17.54
10	64QAM	25	0	16.58	16.88	16.58
10	64QAM	25	12	16.79	16.83	16.66
10	64QAM	25	25	16.82	16.58	16.82
10	64QAM	50	0	16.68	16.71	16.74



LTE Band7						
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	18.64	18.45	18.71
5	QPSK	1	12	18.49	18.48	18.81
5	QPSK	1	24	18.63	18.58	18.79
5	QPSK	12	0	17.55	17.51	17.63
5	QPSK	12	7	17.61	17.71	17.66
5	QPSK	12	13	17.57	17.58	17.56
5	QPSK	25	0	17.54	17.59	17.71
5	16QAM	1	0	17.54	17.65	17.52
5	16QAM	1	12	17.55	17.56	17.63
5	16QAM	1	24	17.62	17.62	17.52
5	16QAM	12	0	17.76	17.77	17.58
5	16QAM	12	7	17.62	17.62	17.62
5	16QAM	12	13	17.75	17.56	17.54
5	16QAM	25	0	17.62	17.62	17.52
5	64QAM	1	0	17.73	17.94	17.56
5	64QAM	1	12	17.46	17.65	17.54
5	64QAM	1	24	17.56	17.62	17.62
5	64QAM	12	0	16.61	16.81	16.54
5	64QAM	12	7	16.79	16.86	16.58
5	64QAM	12	13	16.62	16.61	16.81
5	64QAM	25	0	16.56	16.95	16.58



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	22.76	22.84	22.83
10	QPSK	1	25	22.47	22.63	22.43
10	QPSK	1	49	22.83	22.52	22.49
10	QPSK	25	0	21.62	21.84	21.79
10	QPSK	25	12	21.69	21.71	21.58
10	QPSK	25	25	21.73	21.73	21.49
10	QPSK	50	0	21.58	21.92	21.44
10	16QAM	1	0	21.91	21.87	21.62
10	16QAM	1	25	21.58	21.66	21.58
10	16QAM	1	49	21.62	21.65	21.97
10	16QAM	25	0	20.55	20.94	20.79
10	16QAM	25	12	20.78	20.74	20.51
10	16QAM	25	25	20.93	20.45	20.63
10	16QAM	50	0	20.47	20.91	20.58
10	64QAM	1	0	20.58	20.65	20.56
10	64QAM	1	25	20.77	20.51	20.55
10	64QAM	1	49	20.84	20.57	20.62
10	64QAM	25	0	20.58	20.62	20.85
10	64QAM	25	12	20.71	20.55	20.65
10	64QAM	25	25	20.62	20.57	20.52
10	64QAM	50	0	20.63	20.62	20.61



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.42	22.56	22.62
5	QPSK	1	12	22.61	22.76	22.72
5	QPSK	1	24	22.5	22.61	22.75
5	QPSK	12	0	21.53	21.78	21.57
5	QPSK	12	7	21.62	21.83	21.67
5	QPSK	12	13	21.64	21.84	21.45
5	QPSK	25	0	21.61	21.58	21.52
5	16QAM	1	0	21.46	21.57	21.68
5	16QAM	1	12	21.78	21.58	21.79
5	16QAM	1	24	21.71	21.88	21.79
5	16QAM	12	0	20.68	20.72	20.74
5	16QAM	12	7	20.89	20.79	20.67
5	16QAM	12	13	20.85	20.89	20.57
5	16QAM	25	0	20.93	20.65	20.71
5	64QAM	1	0	20.56	20.58	20.58
5	64QAM	1	12	20.58	20.62	20.61
5	64QAM	1	24	20.66	20.58	20.58
5	64QAM	12	0	20.58	20.62	20.75
5	64QAM	12	7	20.69	20.57	20.62
5	64QAM	12	13	20.46	20.72	20.58
5	64QAM	25	0	20.58	20.66	20.72



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	22.39	22.37	22.64
3	QPSK	1	8	22.36	22.57	22.55
3	QPSK	1	14	22.49	22.66	22.58
3	QPSK	8	0	21.74	21.87	21.64
3	QPSK	8	4	21.43	21.71	21.54
3	QPSK	8	7	21.62	21.86	21.58
3	QPSK	15	0	21.62	21.78	21.53
3	16QAM	1	0	21.58	21.59	21.59
3	16QAM	1	8	21.62	21.62	21.56
3	16QAM	1	14	21.58	21.58	21.62
3	16QAM	8	0	20.55	20.57	20.62
3	16QAM	8	4	20.62	20.81	20.56
3	16QAM	8	7	20.54	20.56	20.62
3	16QAM	15	0	20.52	20.75	20.77
3	64QAM	1	0	20.69	20.54	20.57
3	64QAM	1	8	20.58	20.61	20.81
3	64QAM	1	14	20.62	20.61	20.56
3	64QAM	8	0	20.55	20.68	20.62
3	64QAM	8	4	20.33	20.57	20.52
3	64QAM	8	7	20.81	20.73	20.58
3	64QAM	15	0	20.53	20.94	20.75



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	22.59	22.55	22.69
1.4	QPSK	1	3	22.49	22.72	22.65
1.4	QPSK	1	5	22.48	22.61	22.57
1.4	QPSK	3	0	22.5	22.83	22.55
1.4	QPSK	3	1	22.56	22.87	22.63
1.4	QPSK	3	3	22.53	22.61	22.69
1.4	QPSK	6	0	21.48	21.76	21.73
1.4	16QAM	1	0	21.62	21.55	21.68
1.4	16QAM	1	3	21.46	21.62	21.65
1.4	16QAM	1	5	21.49	21.81	21.48
1.4	16QAM	3	0	21.55	21.66	21.51
1.4	16QAM	3	1	21.5	21.87	21.8
1.4	16QAM	3	3	21.53	21.98	21.83
1.4	16QAM	6	0	20.13	20.52	20.48
1.4	64QAM	1	0	20.62	20.58	20.55
1.4	64QAM	1	3	20.84	20.62	20.71
1.4	64QAM	1	5	20.54	20.62	20.62
1.4	64QAM	3	0	20.62	20.56	20.66
1.4	64QAM	3	1	20.55	20.72	20.84
1.4	64QAM	3	3	20.62	20.73	20.51
1.4	64QAM	6	0	20.54	20.62	20.62



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	22.72	22.82	22.81
10	QPSK	1	25	22.56	22.68	22.47
10	QPSK	1	49	22.41	22.54	22.47
10	QPSK	25	0	21.75	21.82	21.58
10	QPSK	25	12	21.81	21.68	21.56
10	QPSK	25	25	21.65	21.46	21.48
10	QPSK	50	0	21.71	21.64	21.42
10	16QAM	1	0	21.73	21.52	21.55
10	16QAM	1	25	21.87	21.52	21.62
10	16QAM	1	49	21.62	21.53	21.73
10	16QAM	25	0	20.76	20.88	20.75
10	16QAM	25	12	20.83	20.62	20.41
10	16QAM	25	25	20.77	20.85	20.55
10	16QAM	50	0	20.65	20.56	20.55
10	64QAM	1	0	20.52	20.62	20.62
10	64QAM	1	25	20.62	20.75	20.54
10	64QAM	1	49	20.84	20.62	20.53
10	64QAM	25	0	20.85	20.55	20.62
10	64QAM	25	12	20.62	20.63	20.55
10	64QAM	25	25	20.54	20.65	20.58
10	64QAM	50	0	20.84	20.56	20.47



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23790	23155
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	22.34	22.68	22.6
5	QPSK	1	12	22.44	22.55	22.67
5	QPSK	1	24	22.55	22.56	22.5
5	QPSK	12	0	21.52	21.74	21.54
5	QPSK	12	7	21.62	21.56	21.49
5	QPSK	12	13	21.84	21.56	21.42
5	QPSK	25	0	21.72	21.69	21.68
5	16QAM	1	0	21.52	21.66	21.66
5	16QAM	1	12	21.62	21.76	21.85
5	16QAM	1	24	21.55	21.71	21.77
5	16QAM	12	0	20.81	20.67	20.72
5	16QAM	12	7	20.84	20.63	20.61
5	16QAM	12	13	20.82	20.65	20.75
5	16QAM	25	0	20.85	20.84	20.81
5	64QAM	1	0	20.69	20.76	20.58
5	64QAM	1	12	20.88	20.54	20.62
5	64QAM	1	24	20.73	20.68	20.57
5	64QAM	12	0	20.81	20.84	20.88
5	64QAM	12	7	20.82	20.69	20.69
5	64QAM	12	13	20.83	20.89	20.65
5	64QAM	25	0	20.66	20.63	20.67



Effective Radiated Power and Effective Isotropic Radiated Power:

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	21.14	0.130	21.18	0.131	21.16	0.131
20	QPSK	1	49	21.03	0.127	20.92	0.124	20.94	0.124
20	QPSK	1	99	20.83	0.121	20.91	0.123	20.84	0.121
20	QPSK	50	0	19.96	0.099	20.12	0.103	19.97	0.099
20	QPSK	50	24	19.98	0.100	19.98	0.100	19.93	0.098
20	QPSK	50	50	20.02	0.100	19.95	0.099	20.04	0.101
20	QPSK	100	0	20.01	0.100	19.92	0.098	20.01	0.100
20	16QAM	1	0	19.91	0.098	19.89	0.097	19.91	0.098
20	16QAM	1	49	20.22	0.105	19.92	0.098	20.02	0.100
20	16QAM	1	99	20.02	0.100	20.01	0.100	20.11	0.103
20	16QAM	50	0	19.16	0.082	19.11	0.081	19.05	0.080
20	16QAM	50	24	19.02	0.080	19.23	0.084	19.15	0.082
20	16QAM	50	50	19.03	0.080	19.07	0.081	19.19	0.083
20	16QAM	100	0	19.06	0.081	19.16	0.082	19.24	0.084
20	64QAM	1	0	19.36	0.086	19.35	0.086	19.42	0.087
20	64QAM	1	49	19.02	0.080	19.11	0.081	19.35	0.086
20	64QAM	1	99	19.01	0.080	18.92	0.078	19.02	0.080
20	64QAM	50	0	19.16	0.082	19.11	0.081	19.21	0.083
20	64QAM	50	24	19.22	0.084	19.14	0.082	19.17	0.083
20	64QAM	50	50	19.08	0.081	19.24	0.084	19.25	0.084
20	64QAM	100	0	19.11	0.081	19.15	0.082	19.11	0.081



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	20.77	0.119	20.83	0.121	20.78	0.120
15	QPSK	1	37	20.79	0.120	20.91	0.123	20.79	0.120
15	QPSK	1	74	20.88	0.122	21.01	0.126	20.94	0.124
15	QPSK	36	0	19.95	0.099	20.05	0.101	20.08	0.102
15	QPSK	36	20	20.01	0.100	20.01	0.100	19.98	0.100
15	QPSK	36	39	20.05	0.101	20.12	0.103	20.14	0.103
15	QPSK	75	0	19.91	0.098	19.94	0.099	20.11	0.103
15	16QAM	1	0	19.83	0.096	19.85	0.097	19.92	0.098
15	16QAM	1	37	19.94	0.099	20.02	0.100	19.89	0.097
15	16QAM	1	74	20.02	0.100	20.02	0.100	19.84	0.096
15	16QAM	36	0	19.15	0.082	19.20	0.083	19.05	0.080
15	16QAM	36	20	19.03	0.080	18.96	0.079	19.11	0.081
15	16QAM	36	39	19.09	0.081	19.11	0.081	19.11	0.081
15	16QAM	75	0	19.06	0.081	19.17	0.083	19.14	0.082
15	64QAM	1	0	19.02	0.080	19.01	0.080	19.02	0.080
15	64QAM	1	37	18.91	0.078	19.12	0.082	19.03	0.080
15	64QAM	1	74	19.12	0.082	19.12	0.082	19.14	0.082
15	64QAM	36	0	19.21	0.083	19.03	0.080	19.17	0.083
15	64QAM	36	20	19.21	0.083	19.08	0.081	18.99	0.079
15	64QAM	36	39	19.11	0.081	19.17	0.083	19.04	0.080
15	64QAM	75	0	19.02	0.080	19.17	0.083	18.96	0.079



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	20.87	0.122	20.92	0.124	20.93	0.124
10	QPSK	1	25	20.78	0.120	20.88	0.122	20.83	0.121
10	QPSK	1	49	21.05	0.127	20.78	0.120	20.87	0.122
10	QPSK	25	0	20.01	0.100	20.02	0.100	19.91	0.098
10	QPSK	25	12	19.92	0.098	20.02	0.100	20.01	0.100
10	QPSK	25	25	20.04	0.101	20.00	0.100	19.92	0.098
10	QPSK	50	0	19.97	0.099	20.07	0.102	19.91	0.098
10	16QAM	1	0	19.92	0.098	19.86	0.097	20.25	0.106
10	16QAM	1	25	19.82	0.096	19.88	0.097	19.96	0.099
10	16QAM	1	49	20.27	0.106	20.22	0.105	20.18	0.104
10	16QAM	25	0	18.96	0.079	19.08	0.081	19.04	0.080
10	16QAM	25	12	18.88	0.077	19.03	0.080	19.14	0.082
10	16QAM	25	25	19.11	0.081	19.10	0.081	19.17	0.083
10	16QAM	50	0	19.07	0.081	19.07	0.081	19.11	0.081
10	64QAM	1	0	18.92	0.078	19.02	0.080	19.02	0.080
10	64QAM	1	25	19.02	0.080	19.05	0.080	18.92	0.078
10	64QAM	1	49	19.13	0.082	18.92	0.078	19.16	0.082
10	64QAM	25	0	19.19	0.083	19.17	0.083	19.19	0.083
10	64QAM	25	12	19.24	0.084	19.15	0.082	18.93	0.078
10	64QAM	25	25	18.94	0.078	19.09	0.081	19.11	0.081
10	64QAM	50	0	19.14	0.082	19.21	0.083	19.09	0.081



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	20.94	0.124	20.99	0.126	20.99	0.126
5	QPSK	1	12	20.89	0.123	20.91	0.123	21.09	0.129
5	QPSK	1	24	20.95	0.124	21.02	0.126	21.14	0.130
5	QPSK	12	0	20.05	0.101	20.01	0.100	20.02	0.100
5	QPSK	12	7	19.96	0.099	19.87	0.097	20.01	0.100
5	QPSK	12	13	20.06	0.101	19.97	0.099	20.03	0.101
5	QPSK	25	0	20.03	0.101	19.99	0.100	20.11	0.103
5	16QAM	1	0	19.94	0.099	20.14	0.103	19.96	0.099
5	16QAM	1	12	19.98	0.100	20.18	0.104	19.98	0.100
5	16QAM	1	24	20.13	0.103	19.86	0.097	20.24	0.106
5	16QAM	12	0	19.14	0.082	19.05	0.080	19.09	0.081
5	16QAM	12	7	19.22	0.084	19.16	0.082	19.05	0.080
5	16QAM	12	13	19.15	0.082	18.94	0.078	18.98	0.079
5	16QAM	25	0	18.95	0.079	18.93	0.078	18.96	0.079
5	64QAM	1	0	18.96	0.079	19.25	0.084	19.02	0.080
5	64QAM	1	12	18.98	0.079	18.91	0.078	18.94	0.078
5	64QAM	1	24	19.22	0.084	18.92	0.078	18.92	0.078
5	64QAM	12	0	19.16	0.082	18.95	0.079	19.12	0.082
5	64QAM	12	7	18.94	0.078	18.92	0.078	19.02	0.080
5	64QAM	12	13	19.04	0.080	18.95	0.079	19.08	0.081
5	64QAM	25	0	19.22	0.084	19.21	0.083	19.19	0.083



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	20.79	0.120	20.94	0.124	20.73	0.118
3	QPSK	1	8	20.91	0.123	20.86	0.122	20.84	0.121
3	QPSK	1	14	20.97	0.125	20.82	0.121	20.83	0.121
3	QPSK	8	0	20.01	0.100	19.96	0.099	19.92	0.098
3	QPSK	8	4	19.95	0.099	19.83	0.096	19.91	0.098
3	QPSK	8	7	19.87	0.097	19.92	0.098	20.04	0.101
3	QPSK	15	0	19.95	0.099	19.93	0.098	20.08	0.102
3	16QAM	1	0	20.02	0.100	19.92	0.098	19.97	0.099
3	16QAM	1	8	20.15	0.104	19.95	0.099	19.89	0.097
3	16QAM	1	14	20.12	0.103	20.02	0.100	19.94	0.099
3	16QAM	8	0	19.12	0.082	19.18	0.083	19.18	0.083
3	16QAM	8	4	19.23	0.084	19.23	0.084	19.21	0.083
3	16QAM	8	7	19.18	0.083	19.04	0.080	19.12	0.082
3	16QAM	15	0	19.23	0.084	19.14	0.082	19.21	0.083
3	64QAM	1	0	19.08	0.081	19.01	0.080	18.96	0.079
3	64QAM	1	8	18.95	0.079	18.96	0.079	18.93	0.078
3	64QAM	1	14	18.97	0.079	18.92	0.078	18.94	0.078
3	64QAM	8	0	19.04	0.080	18.87	0.077	19.16	0.082
3	64QAM	8	4	18.96	0.079	18.82	0.076	18.97	0.079
3	64QAM	8	7	18.91	0.078	18.94	0.078	19.08	0.081
3	64QAM	15	0	19.11	0.081	19.25	0.084	19.19	0.083



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	20.97	0.125	20.83	0.121	20.91	0.123
1.4	QPSK	1	3	20.99	0.126	20.95	0.124	20.85	0.122
1.4	QPSK	1	5	20.99	0.126	20.89	0.123	20.93	0.124
1.4	QPSK	3	0	20.92	0.124	21.02	0.126	20.98	0.125
1.4	QPSK	3	1	21.15	0.130	21.04	0.127	21.02	0.126
1.4	QPSK	3	3	21.09	0.129	20.96	0.125	20.94	0.124
1.4	QPSK	6	0	19.96	0.099	20.02	0.100	19.84	0.096
1.4	16QAM	1	0	20.23	0.105	19.96	0.099	19.82	0.096
1.4	16QAM	1	3	20.19	0.104	20.04	0.101	19.93	0.098
1.4	16QAM	1	5	19.98	0.100	19.92	0.098	19.93	0.098
1.4	16QAM	3	0	19.98	0.100	20.03	0.101	20.17	0.104
1.4	16QAM	3	1	19.94	0.099	20.18	0.104	20.34	0.108
1.4	16QAM	3	3	20.04	0.101	20.02	0.100	20.21	0.105
1.4	16QAM	6	0	18.85	0.077	18.99	0.079	18.89	0.077
1.4	64QAM	1	0	18.95	0.079	18.96	0.079	18.98	0.079
1.4	64QAM	1	3	18.94	0.078	18.98	0.079	18.96	0.079
1.4	64QAM	1	5	19.11	0.081	18.95	0.079	19.05	0.080
1.4	64QAM	3	0	19.07	0.081	18.95	0.079	18.92	0.078
1.4	64QAM	3	1	19.06	0.081	19.05	0.080	18.93	0.078
1.4	64QAM	3	3	18.99	0.079	19.02	0.080	18.95	0.079
1.4	64QAM	6	0	19.14	0.082	19.12	0.082	19.04	0.080



LTE Band4				Measured EIRP					
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	21.53	0.142	21.65	0.146	21.54	0.143
20	QPSK	1	49	21.23	0.133	21.16	0.131	21.34	0.136
20	QPSK	1	99	21.45	0.140	21.27	0.134	21.52	0.142
20	QPSK	50	0	20.51	0.112	20.53	0.113	20.37	0.109
20	QPSK	50	24	20.31	0.107	20.49	0.112	20.41	0.110
20	QPSK	50	50	20.34	0.108	20.41	0.110	20.37	0.109
20	QPSK	100	0	20.37	0.109	20.32	0.108	20.33	0.108
20	16QAM	1	0	20.55	0.114	20.62	0.115	20.42	0.110
20	16QAM	1	49	20.43	0.110	20.56	0.114	20.56	0.114
20	16QAM	1	99	20.92	0.124	20.66	0.116	20.66	0.116
20	16QAM	50	0	19.61	0.091	19.54	0.090	19.46	0.088
20	16QAM	50	24	19.47	0.089	19.48	0.089	19.57	0.091
20	16QAM	50	50	19.51	0.089	19.39	0.087	19.48	0.089
20	16QAM	100	0	19.48	0.089	19.52	0.090	19.59	0.091
20	64QAM	1	0	19.65	0.092	19.66	0.092	19.65	0.092
20	64QAM	1	49	19.62	0.092	19.56	0.090	19.85	0.097
20	64QAM	1	99	19.72	0.094	19.69	0.093	19.65	0.092
20	64QAM	50	0	19.76	0.095	19.62	0.092	19.51	0.089
20	64QAM	50	24	19.55	0.090	19.56	0.090	19.54	0.090
20	64QAM	50	50	19.54	0.090	19.47	0.089	19.45	0.088
20	64QAM	100	0	19.46	0.088	19.51	0.089	19.61	0.091



LTE Band4				Measured EIRP					
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	21.38	0.137	21.35	0.136	21.52	0.142
15	QPSK	1	37	21.36	0.137	21.21	0.132	21.36	0.137
15	QPSK	1	74	21.21	0.132	21.19	0.132	21.27	0.134
15	QPSK	36	0	20.42	0.110	20.33	0.108	20.35	0.108
15	QPSK	36	20	20.39	0.109	20.45	0.111	20.52	0.113
15	QPSK	36	39	20.34	0.108	20.35	0.108	20.42	0.110
15	QPSK	75	0	20.46	0.111	20.32	0.108	20.43	0.110
15	16QAM	1	0	20.55	0.114	20.62	0.115	20.72	0.118
15	16QAM	1	37	20.78	0.120	20.58	0.114	20.78	0.120
15	16QAM	1	74	20.69	0.117	20.67	0.117	20.74	0.119
15	16QAM	36	0	19.57	0.091	19.55	0.090	19.52	0.090
15	16QAM	36	20	19.47	0.089	19.46	0.088	19.49	0.089
15	16QAM	36	39	19.35	0.086	19.41	0.087	19.34	0.086
15	16QAM	75	0	19.52	0.090	19.51	0.089	19.61	0.091
15	64QAM	1	0	19.66	0.092	19.51	0.089	19.74	0.094
15	64QAM	1	37	19.88	0.097	19.75	0.094	19.55	0.090
15	64QAM	1	74	19.74	0.094	19.59	0.091	19.65	0.092
15	64QAM	36	0	19.55	0.090	19.64	0.092	19.52	0.090
15	64QAM	36	20	19.51	0.089	19.53	0.090	19.47	0.089
15	64QAM	36	39	19.46	0.088	19.52	0.090	19.52	0.090
15	64QAM	75	0	19.66	0.092	19.61	0.091	19.58	0.091



LTE Band4				Measured EIRP					
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	21.23	0.133	21.37	0.137	21.45	0.140
10	QPSK	1	25	21.42	0.139	21.15	0.130	21.58	0.144
10	QPSK	1	49	21.34	0.136	21.38	0.137	21.26	0.134
10	QPSK	25	0	20.35	0.108	20.39	0.109	20.46	0.111
10	QPSK	25	12	20.46	0.111	20.33	0.108	20.49	0.112
10	QPSK	25	25	20.39	0.109	20.36	0.109	20.36	0.109
10	QPSK	50	0	20.51	0.112	20.43	0.110	20.42	0.110
10	16QAM	1	0	20.65	0.116	20.93	0.124	20.77	0.119
10	16QAM	1	25	20.91	0.123	20.88	0.122	20.81	0.121
10	16QAM	1	49	20.53	0.113	20.62	0.115	20.65	0.116
10	16QAM	25	0	19.52	0.090	19.48	0.089	19.46	0.088
10	16QAM	25	12	19.59	0.091	19.61	0.091	19.32	0.086
10	16QAM	25	25	19.62	0.092	19.42	0.087	19.58	0.091
10	16QAM	50	0	19.51	0.089	19.58	0.091	19.51	0.089
10	64QAM	1	0	19.56	0.090	19.66	0.092	19.71	0.094
10	64QAM	1	25	19.52	0.090	19.58	0.091	19.65	0.092
10	64QAM	1	49	19.62	0.092	19.69	0.093	19.79	0.095
10	64QAM	25	0	19.63	0.092	19.69	0.093	19.68	0.093
10	64QAM	25	12	19.58	0.091	19.53	0.090	19.74	0.094
10	64QAM	25	25	19.49	0.089	19.42	0.087	19.59	0.091
10	64QAM	50	0	19.63	0.092	19.63	0.092	19.62	0.092



LTE Band4				Measured EIRP					
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	21.49	0.141	21.38	0.137	21.35	0.136
5	QPSK	1	12	21.45	0.140	21.37	0.137	21.43	0.139
5	QPSK	1	24	21.52	0.142	21.45	0.140	21.38	0.137
5	QPSK	12	0	20.45	0.111	20.36	0.109	20.41	0.110
5	QPSK	12	7	20.52	0.113	20.34	0.108	20.45	0.111
5	QPSK	12	13	20.43	0.110	20.51	0.112	20.42	0.110
5	QPSK	25	0	20.36	0.109	20.33	0.108	20.47	0.111
5	16QAM	1	0	20.54	0.113	20.57	0.114	20.93	0.124
5	16QAM	1	12	20.62	0.115	20.82	0.121	20.58	0.114
5	16QAM	1	24	20.66	0.116	20.62	0.115	20.75	0.119
5	16QAM	12	0	19.62	0.092	19.57	0.091	19.61	0.091
5	16QAM	12	7	19.44	0.088	19.55	0.090	19.65	0.092
5	16QAM	12	13	19.49	0.089	19.65	0.092	19.51	0.089
5	16QAM	25	0	19.81	0.096	19.75	0.094	19.61	0.091
5	64QAM	1	0	19.55	0.090	19.58	0.091	19.68	0.093
5	64QAM	1	12	19.72	0.094	19.62	0.092	19.58	0.091
5	64QAM	1	24	19.62	0.092	19.68	0.093	19.82	0.096
5	64QAM	12	0	19.72	0.094	19.79	0.095	19.64	0.092
5	64QAM	12	7	19.72	0.094	19.69	0.093	19.53	0.090
5	64QAM	12	13	19.56	0.090	19.39	0.087	19.71	0.094
5	64QAM	25	0	19.78	0.095	19.58	0.091	19.78	0.095



LTE Band4				Measured EIRP					
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	21.17	0.131	21.43	0.139	21.37	0.137
3	QPSK	1	8	21.41	0.138	21.55	0.143	21.41	0.138
3	QPSK	1	14	21.46	0.140	21.38	0.137	21.42	0.139
3	QPSK	8	0	20.42	0.110	20.47	0.111	20.44	0.111
3	QPSK	8	4	20.39	0.109	20.39	0.109	20.45	0.111
3	QPSK	8	7	20.43	0.110	20.54	0.113	20.52	0.113
3	QPSK	15	0	20.33	0.108	20.37	0.109	20.41	0.110
3	16QAM	1	0	20.76	0.119	20.55	0.114	20.62	0.115
3	16QAM	1	8	20.64	0.116	20.62	0.115	20.87	0.122
3	16QAM	1	14	20.61	0.115	20.55	0.114	20.62	0.115
3	16QAM	8	0	19.73	0.094	19.74	0.094	19.68	0.093
3	16QAM	8	4	19.68	0.093	19.71	0.094	19.59	0.091
3	16QAM	8	7	19.58	0.091	19.74	0.094	19.66	0.092
3	16QAM	15	0	19.61	0.091	19.75	0.094	19.78	0.095
3	64QAM	1	0	19.65	0.092	19.74	0.094	19.55	0.090
3	64QAM	1	8	19.64	0.092	19.71	0.094	19.58	0.091
3	64QAM	1	14	19.54	0.090	19.72	0.094	19.62	0.092
3	64QAM	8	0	19.62	0.092	19.45	0.088	19.54	0.090
3	64QAM	8	4	19.52	0.090	19.58	0.091	19.62	0.092
3	64QAM	8	7	19.44	0.088	19.58	0.091	19.51	0.089
3	64QAM	15	0	19.82	0.096	19.66	0.092	19.95	0.099



LTE Band4				Measured EIRP					
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	21.27	0.134	21.45	0.140	21.23	0.133
1.4	QPSK	1	3	21.24	0.133	21.38	0.137	21.41	0.138
1.4	QPSK	1	5	21.12	0.129	21.47	0.140	21.23	0.133
1.4	QPSK	3	0	21.38	0.137	21.37	0.137	21.42	0.139
1.4	QPSK	3	1	21.37	0.137	21.45	0.140	21.47	0.140
1.4	QPSK	3	3	21.24	0.133	21.38	0.137	21.48	0.141
1.4	QPSK	6	0	20.43	0.110	20.37	0.109	20.41	0.110
1.4	16QAM	1	0	20.56	0.114	20.79	0.120	20.67	0.117
1.4	16QAM	1	3	20.65	0.116	20.62	0.115	20.56	0.114
1.4	16QAM	1	5	20.66	0.116	20.71	0.118	20.95	0.124
1.4	16QAM	3	0	20.73	0.118	20.79	0.120	20.58	0.114
1.4	16QAM	3	1	20.79	0.120	20.77	0.119	20.64	0.116
1.4	16QAM	3	3	20.63	0.116	20.66	0.116	20.55	0.114
1.4	16QAM	6	0	19.34	0.086	19.28	0.085	19.28	0.085
1.4	64QAM	1	0	19.66	0.092	19.54	0.090	19.55	0.090
1.4	64QAM	1	3	19.56	0.090	19.68	0.093	19.58	0.091
1.4	64QAM	1	5	19.75	0.094	19.59	0.091	19.62	0.092
1.4	64QAM	3	0	19.66	0.092	19.65	0.092	19.59	0.091
1.4	64QAM	3	1	19.54	0.090	19.58	0.091	19.64	0.092
1.4	64QAM	3	3	19.68	0.093	19.72	0.094	19.62	0.092
1.4	64QAM	6	0	19.55	0.090	19.41	0.087	19.53	0.090



LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.49	0.071	18.59	0.072	18.41	0.069
10	QPSK	1	25	18.32	0.068	18.33	0.068	18.34	0.068
10	QPSK	1	49	18.32	0.068	18.16	0.065	18.34	0.068
10	QPSK	25	0	17.31	0.054	17.42	0.055	17.37	0.055
10	QPSK	25	12	17.17	0.052	17.21	0.053	17.36	0.054
10	QPSK	25	25	17.18	0.052	17.08	0.051	17.22	0.053
10	QPSK	50	0	17.21	0.053	17.22	0.053	17.12	0.052
10	16QAM	1	0	17.56	0.057	17.70	0.059	17.41	0.055
10	16QAM	1	25	17.48	0.056	17.41	0.055	17.51	0.056
10	16QAM	1	49	17.67	0.058	17.47	0.056	17.40	0.055
10	16QAM	25	0	16.61	0.046	16.49	0.045	16.41	0.044
10	16QAM	25	12	16.63	0.046	16.48	0.044	16.44	0.044
10	16QAM	25	25	16.47	0.044	16.56	0.045	16.44	0.044
10	16QAM	50	0	16.21	0.042	16.46	0.044	16.20	0.042
10	64QAM	1	0	16.47	0.044	16.50	0.045	16.41	0.044
10	64QAM	1	25	16.41	0.044	16.56	0.045	16.40	0.044
10	64QAM	1	49	16.39	0.044	16.40	0.044	16.47	0.044
10	64QAM	25	0	16.43	0.044	16.51	0.045	16.38	0.043
10	64QAM	25	12	16.58	0.045	16.44	0.044	16.30	0.043
10	64QAM	25	25	16.58	0.045	16.56	0.045	16.58	0.045
10	64QAM	50	0	16.53	0.045	16.44	0.044	16.38	0.043



LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.36	0.069	18.36	0.069	18.21	0.066
5	QPSK	1	12	18.48	0.070	18.31	0.068	18.27	0.067
5	QPSK	1	24	18.22	0.066	18.28	0.067	18.32	0.068
5	QPSK	12	0	17.51	0.056	17.22	0.053	17.38	0.055
5	QPSK	12	7	17.25	0.053	17.58	0.057	17.39	0.055
5	QPSK	12	13	17.35	0.054	17.27	0.053	17.21	0.053
5	QPSK	25	0	17.21	0.053	17.48	0.056	17.20	0.052
5	16QAM	1	0	17.47	0.056	17.61	0.058	17.38	0.055
5	16QAM	1	12	17.57	0.057	17.50	0.056	17.46	0.056
5	16QAM	1	24	17.29	0.054	17.44	0.055	17.58	0.057
5	16QAM	12	0	16.60	0.046	16.46	0.044	16.37	0.043
5	16QAM	12	7	16.36	0.043	16.53	0.045	16.22	0.042
5	16QAM	12	13	16.27	0.042	16.46	0.044	16.19	0.042
5	16QAM	25	0	16.58	0.045	16.60	0.046	16.46	0.044
5	64QAM	1	0	16.36	0.043	16.56	0.045	16.47	0.044
5	64QAM	1	12	16.40	0.044	16.37	0.043	16.41	0.044
5	64QAM	1	24	16.47	0.044	16.50	0.045	16.40	0.044
5	64QAM	12	0	16.50	0.045	16.69	0.047	16.50	0.045
5	64QAM	12	7	16.22	0.042	16.48	0.044	16.32	0.043
5	64QAM	12	13	16.27	0.042	16.56	0.045	16.43	0.044
5	64QAM	25	0	16.54	0.045	16.61	0.046	16.34	0.043



LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.16	0.065	18.03	0.064	18.22	0.066
3	QPSK	1	8	18.23	0.067	18.16	0.065	18.29	0.067
3	QPSK	1	14	18.24	0.067	18.14	0.065	18.21	0.066
3	QPSK	8	0	17.41	0.055	17.30	0.054	17.33	0.054
3	QPSK	8	4	17.41	0.055	17.53	0.057	17.32	0.054
3	QPSK	8	7	17.36	0.054	17.40	0.055	17.41	0.055
3	QPSK	15	0	17.37	0.055	17.36	0.054	17.29	0.054
3	16QAM	1	0	17.71	0.059	17.44	0.055	17.36	0.054
3	16QAM	1	8	17.66	0.058	17.46	0.056	17.67	0.058
3	16QAM	1	14	17.52	0.056	17.82	0.061	17.38	0.055
3	16QAM	8	0	16.66	0.046	16.64	0.046	16.36	0.043
3	16QAM	8	4	16.64	0.046	16.60	0.046	16.18	0.041
3	16QAM	8	7	16.42	0.044	16.63	0.046	16.34	0.043
3	16QAM	15	0	16.63	0.046	16.58	0.045	16.24	0.042
3	64QAM	1	0	16.40	0.044	16.56	0.045	16.42	0.044
3	64QAM	1	8	16.47	0.044	16.66	0.046	16.47	0.044
3	64QAM	1	14	16.39	0.044	16.57	0.045	16.57	0.045
3	64QAM	8	0	16.56	0.045	16.41	0.044	16.41	0.044
3	64QAM	8	4	16.61	0.046	16.50	0.045	16.21	0.042
3	64QAM	8	7	16.42	0.044	16.36	0.043	16.22	0.042
3	64QAM	15	0	16.67	0.046	16.41	0.044	16.43	0.044



LTE Band5				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.08	0.064	18.16	0.065	18.16	0.065
1.4	QPSK	1	3	18.34	0.068	18.09	0.064	18.17	0.066
1.4	QPSK	1	5	18.18	0.066	18.20	0.066	18.16	0.065
1.4	QPSK	3	0	18.30	0.068	18.27	0.067	18.23	0.067
1.4	QPSK	3	1	18.36	0.069	18.28	0.067	18.22	0.066
1.4	QPSK	3	3	18.40	0.069	18.23	0.067	18.18	0.066
1.4	QPSK	6	0	17.41	0.055	17.58	0.057	17.17	0.052
1.4	16QAM	1	0	17.46	0.056	17.54	0.057	17.49	0.056
1.4	16QAM	1	3	17.51	0.056	17.80	0.060	17.39	0.055
1.4	16QAM	1	5	17.50	0.056	17.82	0.061	17.47	0.056
1.4	16QAM	3	0	17.40	0.055	17.70	0.059	17.40	0.055
1.4	16QAM	3	1	17.53	0.057	17.62	0.058	17.47	0.056
1.4	16QAM	3	3	17.32	0.054	17.52	0.056	17.46	0.056
1.4	16QAM	6	0	16.36	0.043	16.09	0.041	16.22	0.042
1.4	64QAM	1	0	16.31	0.043	16.37	0.043	16.39	0.044
1.4	64QAM	1	3	16.40	0.044	16.47	0.044	16.47	0.044
1.4	64QAM	1	5	16.47	0.044	16.69	0.047	16.58	0.045
1.4	64QAM	3	0	16.41	0.044	16.40	0.044	16.44	0.044
1.4	64QAM	3	1	16.39	0.044	16.47	0.044	16.47	0.044
1.4	64QAM	3	3	16.44	0.044	16.39	0.044	16.43	0.044
1.4	64QAM	6	0	16.49	0.045	16.36	0.043	16.46	0.044



LTE Band7				Measured EIRP					
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	16.91	0.049	17.23	0.053	16.89	0.049
20	QPSK	1	49	16.86	0.049	17.01	0.050	17.22	0.053
20	QPSK	1	99	17.21	0.053	17.15	0.052	17.16	0.052
20	QPSK	50	0	15.98	0.040	16.27	0.042	16.16	0.041
20	QPSK	50	24	16.06	0.040	16.18	0.041	16.21	0.042
20	QPSK	50	50	16.04	0.040	15.89	0.039	16.24	0.042
20	QPSK	100	0	15.97	0.040	16.31	0.043	16.31	0.043
20	16QAM	1	0	15.91	0.039	16.25	0.042	16.01	0.040
20	16QAM	1	49	16.02	0.040	16.27	0.042	15.98	0.040
20	16QAM	1	99	16.06	0.040	15.91	0.039	16.02	0.040
20	16QAM	50	0	16.16	0.041	15.92	0.039	16.22	0.042
20	16QAM	50	24	16.19	0.042	16.18	0.041	16.02	0.040
20	16QAM	50	50	16.15	0.041	16.18	0.041	16.08	0.041
20	16QAM	100	0	16.08	0.041	16.12	0.041	16.06	0.040
20	64QAM	1	0	16.18	0.041	15.84	0.038	16.23	0.042
20	64QAM	1	49	16.25	0.042	15.84	0.038	16.16	0.041
20	64QAM	1	99	16.19	0.042	16.03	0.040	16.25	0.042
20	64QAM	50	0	15.17	0.033	15.21	0.033	14.96	0.031
20	64QAM	50	24	15.12	0.033	15.25	0.033	15.29	0.034
20	64QAM	50	50	14.94	0.031	15.06	0.032	15.31	0.034
20	64QAM	100	0	14.96	0.031	15.14	0.033	15.02	0.032



LTE Band7				Measured EIRP					
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	16.82	0.048	16.87	0.049	16.94	0.049
15	QPSK	1	37	16.69	0.047	17.01	0.050	17.15	0.052
15	QPSK	1	74	16.82	0.048	16.88	0.049	17.04	0.051
15	QPSK	36	0	16.04	0.040	16.26	0.042	16.11	0.041
15	QPSK	36	20	16.02	0.040	16.19	0.042	16.01	0.040
15	QPSK	36	39	15.97	0.040	15.95	0.039	16.12	0.041
15	QPSK	75	0	16.17	0.041	15.85	0.038	16.29	0.043
15	16QAM	1	0	16.02	0.040	15.92	0.039	15.95	0.039
15	16QAM	1	37	15.95	0.039	16.02	0.040	15.94	0.039
15	16QAM	1	74	15.89	0.039	16.04	0.040	16.05	0.040
15	16QAM	36	0	16.02	0.040	15.95	0.039	16.01	0.040
15	16QAM	36	20	16.16	0.041	15.97	0.040	16.16	0.041
15	16QAM	36	39	16.08	0.041	16.02	0.040	15.98	0.040
15	16QAM	75	0	16.14	0.041	16.03	0.040	15.95	0.039
15	64QAM	1	0	16.25	0.042	16.08	0.041	16.02	0.040
15	64QAM	1	37	16.21	0.042	16.03	0.040	16.23	0.042
15	64QAM	1	74	16.02	0.040	16.24	0.042	16.21	0.042
15	64QAM	36	0	15.37	0.034	15.17	0.033	15.24	0.033
15	64QAM	36	20	15.21	0.033	15.14	0.033	15.27	0.034
15	64QAM	36	39	15.25	0.033	15.21	0.033	15.36	0.034
15	64QAM	75	0	14.91	0.031	14.92	0.031	14.95	0.031



LTE Band7				Measured EIRP					
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	16.95	0.050	16.87	0.049	17.02	0.050
10	QPSK	1	25	16.93	0.049	16.91	0.049	16.98	0.050
10	QPSK	1	49	16.91	0.049	17.08	0.051	17.13	0.052
10	QPSK	25	0	15.83	0.038	15.84	0.038	16.23	0.042
10	QPSK	25	12	15.91	0.039	15.93	0.039	16.26	0.042
10	QPSK	25	25	15.83	0.038	16.06	0.040	16.02	0.040
10	QPSK	50	0	15.98	0.040	16.11	0.041	16.22	0.042
10	16QAM	1	0	15.91	0.039	16.27	0.042	16.02	0.040
10	16QAM	1	25	16.02	0.040	15.91	0.039	15.95	0.039
10	16QAM	1	49	16.12	0.041	15.98	0.040	16.12	0.041
10	16QAM	25	0	16.15	0.041	16.02	0.040	16.08	0.041
10	16QAM	25	12	16.05	0.040	15.94	0.039	16.21	0.042
10	16QAM	25	25	16.05	0.040	16.17	0.041	15.94	0.039
10	16QAM	50	0	16.15	0.041	16.11	0.041	16.17	0.041
10	64QAM	1	0	16.02	0.040	16.02	0.040	15.95	0.039
10	64QAM	1	25	15.95	0.039	15.96	0.039	16.02	0.040
10	64QAM	1	49	15.94	0.039	15.94	0.039	15.94	0.039
10	64QAM	25	0	14.98	0.031	15.28	0.034	14.98	0.031
10	64QAM	25	12	15.19	0.033	15.23	0.033	15.06	0.032
10	64QAM	25	25	15.22	0.033	14.98	0.031	15.22	0.033
10	64QAM	50	0	15.08	0.032	15.11	0.032	15.14	0.033



LTE Band7				Measured EIRP					
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	17.04	0.051	16.85	0.048	17.11	0.051
5	QPSK	1	12	16.89	0.049	16.88	0.049	17.21	0.053
5	QPSK	1	24	17.03	0.050	16.98	0.050	17.19	0.052
5	QPSK	12	0	15.95	0.039	15.91	0.039	16.03	0.040
5	QPSK	12	7	16.01	0.040	16.11	0.041	16.06	0.040
5	QPSK	12	13	15.97	0.040	15.98	0.040	15.96	0.039
5	QPSK	25	0	15.94	0.039	15.99	0.040	16.11	0.041
5	16QAM	1	0	15.94	0.039	16.05	0.040	15.92	0.039
5	16QAM	1	12	15.95	0.039	15.96	0.039	16.03	0.040
5	16QAM	1	24	16.02	0.040	16.02	0.040	15.92	0.039
5	16QAM	12	0	16.16	0.041	16.17	0.041	15.98	0.040
5	16QAM	12	7	16.02	0.040	16.02	0.040	16.02	0.040
5	16QAM	12	13	16.15	0.041	15.96	0.039	15.94	0.039
5	16QAM	25	0	16.02	0.040	16.02	0.040	15.92	0.039
5	64QAM	1	0	16.13	0.041	16.34	0.043	15.96	0.039
5	64QAM	1	12	15.86	0.039	16.05	0.040	15.94	0.039
5	64QAM	1	24	15.96	0.039	16.02	0.040	16.02	0.040
5	64QAM	12	0	15.01	0.032	15.21	0.033	14.94	0.031
5	64QAM	12	7	15.19	0.033	15.26	0.034	14.98	0.031
5	64QAM	12	13	15.02	0.032	15.01	0.032	15.21	0.033
5	64QAM	25	0	14.96	0.031	15.35	0.034	14.98	0.031



LTE Band12				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.91	0.078	18.99	0.079	18.98	0.079
10	QPSK	1	25	18.62	0.073	18.78	0.076	18.58	0.072
10	QPSK	1	49	18.98	0.079	18.67	0.074	18.64	0.073
10	QPSK	25	0	17.77	0.060	17.99	0.063	17.94	0.062
10	QPSK	25	12	17.84	0.061	17.86	0.061	17.73	0.059
10	QPSK	25	25	17.88	0.061	17.88	0.061	17.64	0.058
10	QPSK	50	0	17.73	0.059	18.07	0.064	17.59	0.057
10	16QAM	1	0	18.06	0.064	18.02	0.063	17.77	0.060
10	16QAM	1	25	17.73	0.059	17.81	0.060	17.73	0.059
10	16QAM	1	49	17.77	0.060	17.80	0.060	18.12	0.065
10	16QAM	25	0	16.70	0.047	17.09	0.051	16.94	0.049
10	16QAM	25	12	16.93	0.049	16.89	0.049	16.66	0.046
10	16QAM	25	25	17.08	0.051	16.60	0.046	16.78	0.048
10	16QAM	50	0	16.62	0.046	17.06	0.051	16.73	0.047
10	64QAM	1	0	16.73	0.047	16.80	0.048	16.71	0.047
10	64QAM	1	25	16.92	0.049	16.66	0.046	16.70	0.047
10	64QAM	1	49	16.99	0.050	16.72	0.047	16.77	0.048
10	64QAM	25	0	16.73	0.047	16.77	0.048	17.00	0.050
10	64QAM	25	12	16.86	0.049	16.70	0.047	16.80	0.048
10	64QAM	25	25	16.77	0.048	16.72	0.047	16.67	0.046
10	64QAM	50	0	16.78	0.048	16.77	0.048	16.76	0.047



LTE Band12				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.57	0.072	18.71	0.074	18.77	0.075
5	QPSK	1	12	18.76	0.075	18.91	0.078	18.87	0.077
5	QPSK	1	24	18.65	0.073	18.76	0.075	18.90	0.078
5	QPSK	12	0	17.68	0.059	17.93	0.062	17.72	0.059
5	QPSK	12	7	17.77	0.060	17.98	0.063	17.82	0.061
5	QPSK	12	13	17.79	0.060	17.99	0.063	17.60	0.058
5	QPSK	25	0	17.76	0.060	17.73	0.059	17.67	0.058
5	16QAM	1	0	17.61	0.058	17.72	0.059	17.83	0.061
5	16QAM	1	12	17.93	0.062	17.73	0.059	17.94	0.062
5	16QAM	1	24	17.86	0.061	18.03	0.064	17.94	0.062
5	16QAM	12	0	16.83	0.048	16.87	0.049	16.89	0.049
5	16QAM	12	7	17.04	0.051	16.94	0.049	16.82	0.048
5	16QAM	12	13	17.00	0.050	17.04	0.051	16.72	0.047
5	16QAM	25	0	17.08	0.051	16.80	0.048	16.86	0.049
5	64QAM	1	0	16.71	0.047	16.73	0.047	16.73	0.047
5	64QAM	1	12	16.73	0.047	16.77	0.048	16.76	0.047
5	64QAM	1	24	16.81	0.048	16.73	0.047	16.73	0.047
5	64QAM	12	0	16.73	0.047	16.77	0.048	16.90	0.049
5	64QAM	12	7	16.84	0.048	16.72	0.047	16.77	0.048
5	64QAM	12	13	16.61	0.046	16.87	0.049	16.73	0.047
5	64QAM	25	0	16.73	0.047	16.81	0.048	16.87	0.049



LTE Band12				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.54	0.071	18.52	0.071	18.79	0.076
3	QPSK	1	8	18.51	0.071	18.72	0.074	18.70	0.074
3	QPSK	1	14	18.64	0.073	18.81	0.076	18.73	0.075
3	QPSK	8	0	17.89	0.062	18.02	0.063	17.79	0.060
3	QPSK	8	4	17.58	0.057	17.86	0.061	17.69	0.059
3	QPSK	8	7	17.77	0.060	18.01	0.063	17.73	0.059
3	QPSK	15	0	17.77	0.060	17.93	0.062	17.68	0.059
3	16QAM	1	0	17.73	0.059	17.74	0.059	17.74	0.059
3	16QAM	1	8	17.77	0.060	17.77	0.060	17.71	0.059
3	16QAM	1	14	17.73	0.059	17.73	0.059	17.77	0.060
3	16QAM	8	0	16.70	0.047	16.72	0.047	16.77	0.048
3	16QAM	8	4	16.77	0.048	16.96	0.050	16.71	0.047
3	16QAM	8	7	16.69	0.047	16.71	0.047	16.77	0.048
3	16QAM	15	0	16.67	0.046	16.90	0.049	16.92	0.049
3	64QAM	1	0	16.84	0.048	16.69	0.047	16.72	0.047
3	64QAM	1	8	16.73	0.047	16.76	0.047	16.96	0.050
3	64QAM	1	14	16.77	0.048	16.76	0.047	16.71	0.047
3	64QAM	8	0	16.70	0.047	16.83	0.048	16.77	0.048
3	64QAM	8	4	16.48	0.044	16.72	0.047	16.67	0.046
3	64QAM	8	7	16.96	0.050	16.88	0.049	16.73	0.047
3	64QAM	15	0	16.68	0.047	17.09	0.051	16.90	0.049



LTE Band12				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.74	0.075	18.70	0.074	18.84	0.077
1.4	QPSK	1	3	18.64	0.073	18.87	0.077	18.80	0.076
1.4	QPSK	1	5	18.63	0.073	18.76	0.075	18.72	0.074
1.4	QPSK	3	0	18.65	0.073	18.98	0.079	18.70	0.074
1.4	QPSK	3	1	18.71	0.074	19.02	0.080	18.78	0.076
1.4	QPSK	3	3	18.68	0.074	18.76	0.075	18.84	0.077
1.4	QPSK	6	0	17.63	0.058	17.91	0.062	17.88	0.061
1.4	16QAM	1	0	17.77	0.060	17.70	0.059	17.83	0.061
1.4	16QAM	1	3	17.61	0.058	17.77	0.060	17.80	0.060
1.4	16QAM	1	5	17.64	0.058	17.96	0.063	17.63	0.058
1.4	16QAM	3	0	17.70	0.059	17.81	0.060	17.66	0.058
1.4	16QAM	3	1	17.65	0.058	18.02	0.063	17.95	0.062
1.4	16QAM	3	3	17.68	0.059	18.13	0.065	17.98	0.063
1.4	16QAM	6	0	16.28	0.042	16.67	0.046	16.63	0.046
1.4	64QAM	1	0	16.77	0.048	16.73	0.047	16.70	0.047
1.4	64QAM	1	3	16.99	0.050	16.77	0.048	16.86	0.049
1.4	64QAM	1	5	16.69	0.047	16.77	0.048	16.77	0.048
1.4	64QAM	3	0	16.77	0.048	16.71	0.047	16.81	0.048
1.4	64QAM	3	1	16.70	0.047	16.87	0.049	16.99	0.050
1.4	64QAM	3	3	16.77	0.048	16.88	0.049	16.66	0.046
1.4	64QAM	6	0	16.69	0.047	16.77	0.048	16.77	0.048



LTE Band 17				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.87	0.077	18.97	0.079	18.96	0.079
10	QPSK	1	25	18.71	0.074	18.83	0.076	18.62	0.073
10	QPSK	1	49	18.56	0.072	18.69	0.074	18.62	0.073
10	QPSK	25	0	17.90	0.062	17.97	0.063	17.73	0.059
10	QPSK	25	12	17.96	0.063	17.83	0.061	17.71	0.059
10	QPSK	25	25	17.80	0.060	17.61	0.058	17.63	0.058
10	QPSK	50	0	17.86	0.061	17.79	0.060	17.57	0.057
10	16QAM	1	0	17.88	0.061	17.67	0.058	17.70	0.059
10	16QAM	1	25	18.02	0.063	17.67	0.058	17.77	0.060
10	16QAM	1	49	17.77	0.060	17.68	0.059	17.88	0.061
10	16QAM	25	0	16.91	0.049	17.03	0.050	16.90	0.049
10	16QAM	25	12	16.98	0.050	16.77	0.048	16.56	0.045
10	16QAM	25	25	16.92	0.049	17.00	0.050	16.70	0.047
10	16QAM	50	0	16.80	0.048	16.71	0.047	16.70	0.047
10	64QAM	1	0	16.67	0.046	16.77	0.048	16.77	0.048
10	64QAM	1	25	16.77	0.048	16.90	0.049	16.69	0.047
10	64QAM	1	49	16.99	0.050	16.77	0.048	16.68	0.047
10	64QAM	25	0	17.00	0.050	16.70	0.047	16.77	0.048
10	64QAM	25	12	16.77	0.048	16.78	0.048	16.70	0.047
10	64QAM	25	25	16.69	0.047	16.80	0.048	16.73	0.047
10	64QAM	50	0	16.99	0.050	16.71	0.047	16.62	0.046



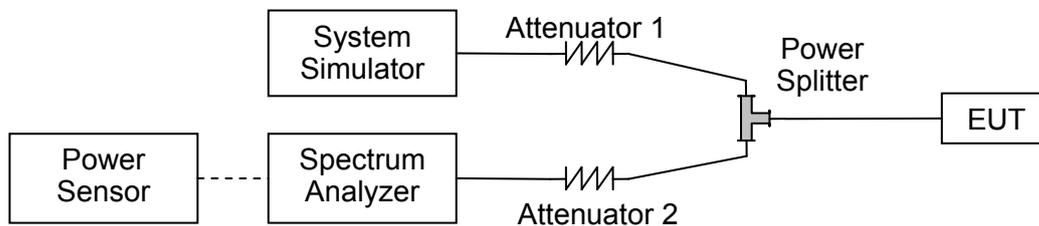
LTE Band 17				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23790		23155	
Frequency (MHz)				706.5		710		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.49	0.071	18.83	0.076	18.75	0.075
5	QPSK	1	12	18.59	0.072	18.70	0.074	18.82	0.076
5	QPSK	1	24	18.70	0.074	18.71	0.074	18.65	0.073
5	QPSK	12	0	17.67	0.058	17.89	0.062	17.69	0.059
5	QPSK	12	7	17.77	0.060	17.71	0.059	17.64	0.058
5	QPSK	12	13	17.99	0.063	17.71	0.059	17.57	0.057
5	QPSK	25	0	17.87	0.061	17.84	0.061	17.83	0.061
5	16QAM	1	0	17.67	0.058	17.81	0.060	17.81	0.060
5	16QAM	1	12	17.77	0.060	17.91	0.062	18.00	0.063
5	16QAM	1	24	17.70	0.059	17.86	0.061	17.92	0.062
5	16QAM	12	0	16.96	0.050	16.82	0.048	16.87	0.049
5	16QAM	12	7	16.99	0.050	16.78	0.048	16.76	0.047
5	16QAM	12	13	16.97	0.050	16.80	0.048	16.90	0.049
5	16QAM	25	0	17.00	0.050	16.99	0.050	16.96	0.050
5	64QAM	1	0	16.84	0.048	16.91	0.049	16.73	0.047
5	64QAM	1	12	17.03	0.050	16.69	0.047	16.77	0.048
5	64QAM	1	24	16.88	0.049	16.83	0.048	16.72	0.047
5	64QAM	12	0	16.96	0.050	16.99	0.050	17.03	0.050
5	64QAM	12	7	16.97	0.050	16.84	0.048	16.84	0.048
5	64QAM	12	13	16.98	0.050	17.04	0.051	16.80	0.048
5	64QAM	25	0	16.81	0.048	16.78	0.048	16.82	0.048

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 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.



2.2.4. Test Result

LTE Band 2				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.32
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.30
	High	16QAM	1.10	1.30
	High	64QAM	1.10	1.30
3	Low	QPSK	2.71	3.07
	Low	16QAM	2.71	3.10
	Low	64QAM	2.73	3.13
	Mid	QPSK	2.71	3.07
	Mid	16QAM	2.72	3.14
	Mid	64QAM	2.73	3.13
	High	QPSK	2.72	3.06
	High	16QAM	2.72	3.12
	High	64QAM	2.73	3.18
5	Low	QPSK	4.52	5.55
	Low	16QAM	4.51	5.42
	Low	64QAM	4.50	5.30
	Mid	QPSK	4.52	5.49
	Mid	16QAM	4.50	5.09
	Mid	64QAM	4.50	5.39
	High	QPSK	4.51	5.44
	High	16QAM	4.51	5.45
	High	64QAM	4.51	5.35



10	Low	QPSK	9.03	10.19
	Low	16QAM	8.99	10.00
	Low	64QAM	9.01	9.94
	Mid	QPSK	9.02	10.23
	Mid	16QAM	8.98	10.10
	Mid	64QAM	8.99	10.00
	High	QPSK	9.04	10.08
	High	16QAM	8.97	10.08
	High	64QAM	8.98	9.97
15	Low	QPSK	13.51	15.24
	Low	16QAM	13.52	15.40
	Low	64QAM	13.50	15.32
	Mid	QPSK	13.53	15.25
	Mid	16QAM	13.50	15.44
	Mid	64QAM	13.49	15.55
	High	QPSK	13.50	15.07
	High	16QAM	13.50	15.34
	High	64QAM	13.49	15.59
20	Low	QPSK	18.03	20.25
	Low	16QAM	18.01	20.14
	Low	64QAM	18.01	20.27
	Mid	QPSK	18.01	20.54
	Mid	16QAM	18.04	20.18
	Mid	64QAM	18.04	19.72
	High	QPSK	18.00	20.34
	High	16QAM	18.00	20.31
	High	64QAM	17.99	19.91



LTE Band 4				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.31
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.10	1.31
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.27
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.29
3	Low	QPSK	2.71	3.06
	Low	16QAM	2.71	3.11
	Low	64QAM	2.73	3.16
	Mid	QPSK	2.72	3.06
	Mid	16QAM	2.71	3.14
	Mid	64QAM	2.72	3.17
	High	QPSK	2.72	3.07
	High	16QAM	2.72	3.14
	High	64QAM	2.72	3.17
5	Low	QPSK	4.53	5.22
	Low	16QAM	4.51	5.18
	Low	64QAM	4.51	5.32
	Mid	QPSK	4.51	5.31
	Mid	16QAM	4.52	5.40
	Mid	64QAM	4.50	5.28
	High	QPSK	4.53	5.51
	High	16QAM	4.52	5.46
	High	64QAM	4.51	5.27



10	Low	QPSK	9.03	10.12
	Low	16QAM	8.98	10.12
	Low	64QAM	9.01	9.95
	Mid	QPSK	9.01	10.25
	Mid	16QAM	8.99	10.11
	Mid	64QAM	8.99	10.07
	High	QPSK	9.01	10.19
	High	16QAM	8.99	9.92
	High	64QAM	9.00	9.99
15	Low	QPSK	13.49	15.30
	Low	16QAM	13.50	15.21
	Low	64QAM	13.49	15.52
	Mid	QPSK	13.47	15.28
	Mid	16QAM	13.50	15.43
	Mid	64QAM	13.50	15.39
	High	QPSK	13.50	15.22
	High	16QAM	13.50	15.41
	High	64QAM	13.51	15.34
20	Low	QPSK	18.04	20.18
	Low	16QAM	18.03	20.51
	Low	64QAM	18.02	20.28
	Mid	QPSK	17.99	20.53
	Mid	16QAM	18.04	20.09
	Mid	64QAM	18.02	20.07
	High	QPSK	18.02	20.46
	High	16QAM	18.03	20.48
	High	64QAM	17.97	20.35



LTE Band 5				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.30
	Low	16QAM	1.10	1.28
	Low	64QAM	1.10	1.28
	Mid	QPSK	1.10	1.30
	Mid	16QAM	1.10	1.29
	Mid	64QAM	1.10	1.28
	High	QPSK	1.10	1.30
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.28
3	Low	QPSK	2.70	3.06
	Low	16QAM	2.71	3.13
	Low	64QAM	2.72	3.10
	Mid	QPSK	2.72	3.05
	Mid	16QAM	2.73	3.12
	Mid	64QAM	2.72	3.08
	High	QPSK	2.72	3.06
	High	16QAM	2.71	3.07
	High	64QAM	2.73	3.13
5	Low	QPSK	4.52	5.61
	Low	16QAM	4.52	5.66
	Low	64QAM	4.52	5.44
	Mid	QPSK	4.52	5.45
	Mid	16QAM	4.51	5.50
	Mid	64QAM	4.51	5.35
	High	QPSK	4.51	5.36
	High	16QAM	4.51	5.30
	High	64QAM	4.50	5.16
10	Low	QPSK	9.02	10.11
	Low	16QAM	8.96	9.90
	Low	64QAM	8.99	9.98
	Mid	QPSK	9.00	10.21
	Mid	16QAM	8.99	10.07
	Mid	64QAM	9.00	9.97
	High	QPSK	9.01	10.16
	High	16QAM	8.99	10.15
	High	64QAM	9.00	9.94



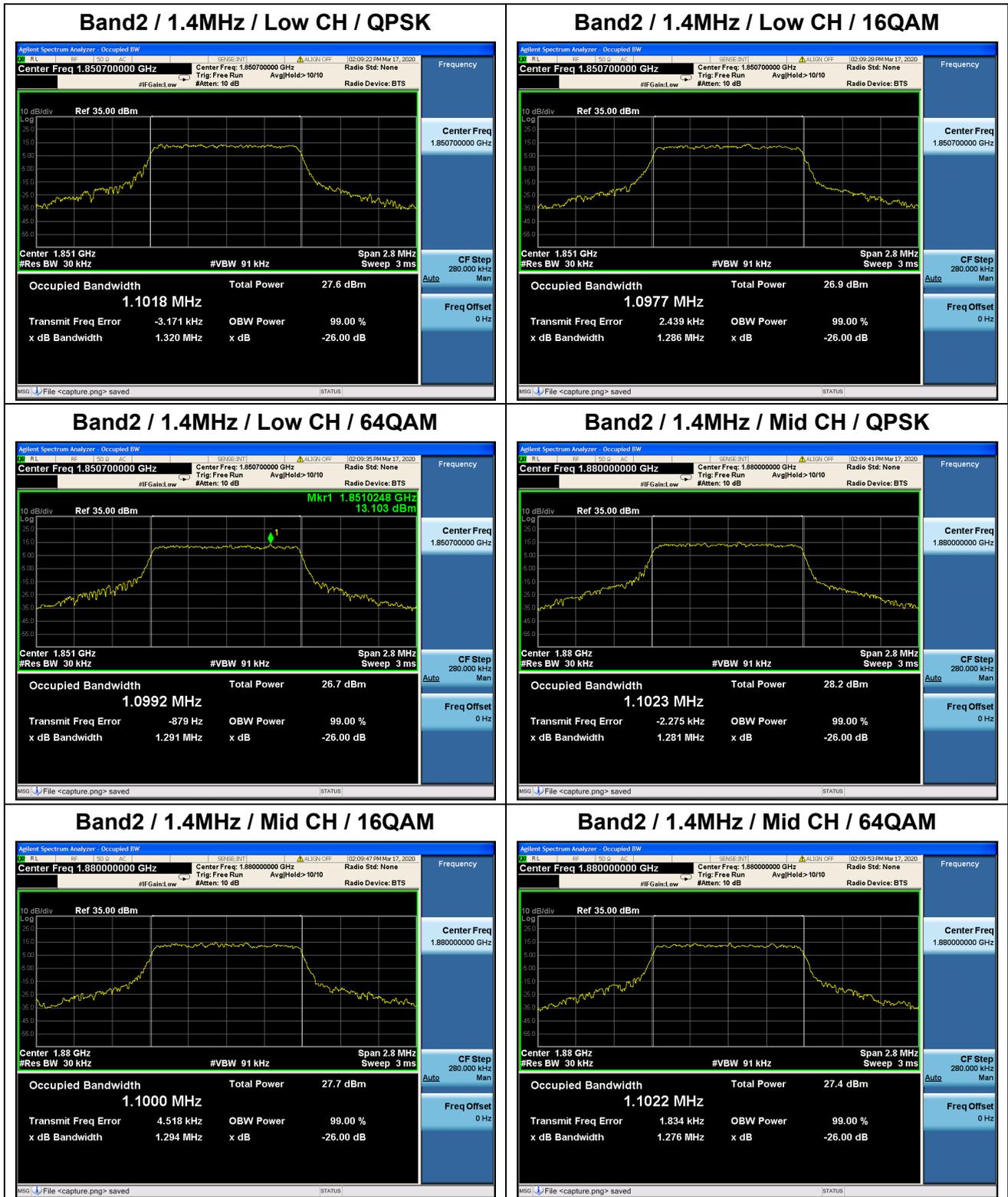
LTE Band 7				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.92
	Low	16QAM	4.52	5.39
	Low	64QAM	4.51	5.37
	Mid	QPSK	4.51	5.33
	Mid	16QAM	4.52	5.55
	Mid	64QAM	4.50	5.37
	High	QPSK	4.51	5.67
	High	16QAM	4.51	5.55
	High	64QAM	4.51	5.35
10	Low	QPSK	9.01	10.03
	Low	16QAM	8.99	10.04
	Low	64QAM	9.00	9.91
	Mid	QPSK	9.02	10.11
	Mid	16QAM	8.99	10.02
	Mid	64QAM	9.01	9.99
	High	QPSK	9.04	10.12
	High	16QAM	8.98	10.13
	High	64QAM	9.00	9.92
15	Low	QPSK	13.50	15.39
	Low	16QAM	13.51	14.94
	Low	64QAM	13.53	15.33
	Mid	QPSK	13.51	15.50
	Mid	16QAM	13.51	15.26
	Mid	64QAM	13.55	15.34
	High	QPSK	13.48	15.28
	High	16QAM	13.49	15.35
	High	64QAM	13.50	15.36
20	Low	QPSK	17.99	20.11
	Low	16QAM	18.01	20.05
	Low	64QAM	18.00	20.33
	Mid	QPSK	18.08	20.26
	Mid	16QAM	18.05	20.57
	Mid	64QAM	18.07	20.52
	High	QPSK	17.96	19.90
	High	16QAM	17.99	20.10
	High	64QAM	17.98	20.59

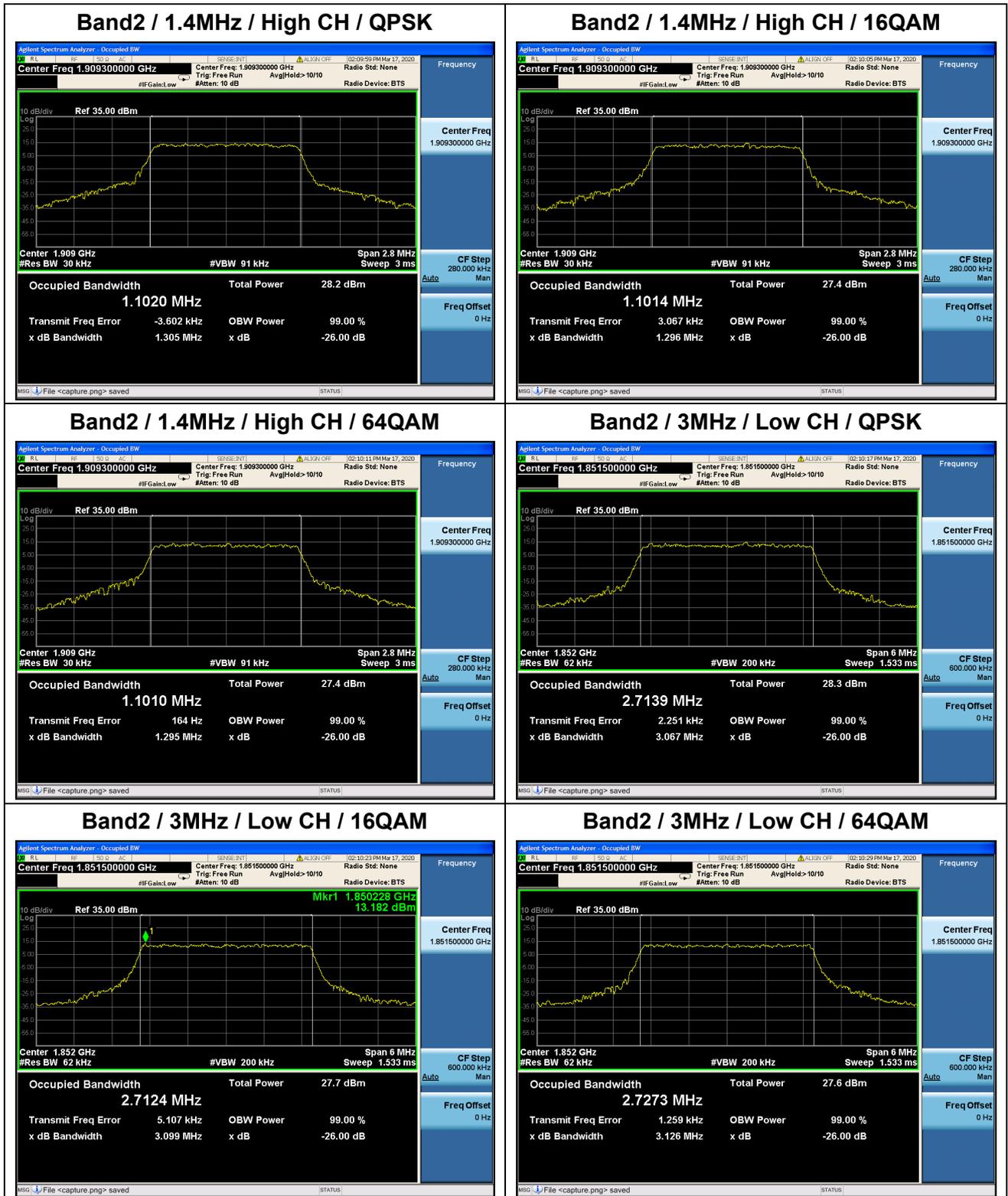


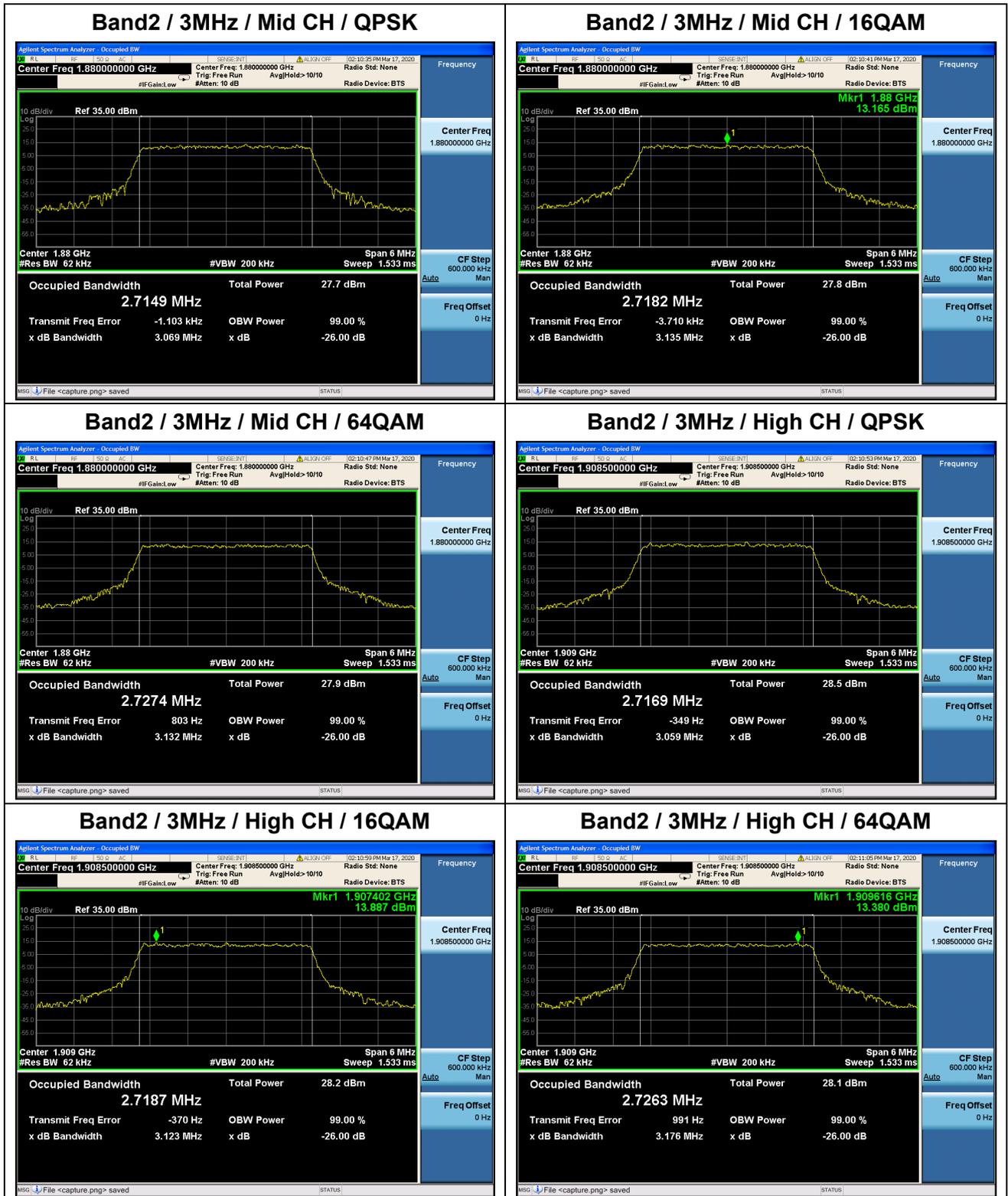
LTE Band 12				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.30
	Low	16QAM	1.10	1.29
	Low	64QAM	1.10	1.29
	Mid	QPSK	1.10	1.27
	Mid	16QAM	1.10	1.28
	Mid	64QAM	1.10	1.27
	High	QPSK	1.10	1.29
	High	16QAM	1.10	1.29
	High	64QAM	1.09	1.25
3	Low	QPSK	2.72	3.04
	Low	16QAM	2.72	3.12
	Low	64QAM	2.72	3.14
	Mid	QPSK	2.71	3.03
	Mid	16QAM	2.72	3.13
	Mid	64QAM	2.72	3.12
	High	QPSK	2.72	3.05
	High	16QAM	2.72	3.11
	High	64QAM	2.72	3.14
5	Low	QPSK	4.52	5.25
	Low	16QAM	4.52	5.37
	Low	64QAM	4.51	5.35
	Mid	QPSK	4.50	5.32
	Mid	16QAM	4.51	5.31
	Mid	64QAM	4.49	5.24
	High	QPSK	4.52	5.53
	High	16QAM	4.52	5.29
	High	64QAM	4.52	5.47
10	Low	QPSK	9.00	9.82
	Low	16QAM	8.98	9.87
	Low	64QAM	8.99	9.85
	Mid	QPSK	8.99	10.05
	Mid	16QAM	8.93	10.08
	Mid	64QAM	8.97	9.96
	High	QPSK	9.04	10.17
	High	16QAM	9.01	10.16
	High	64QAM	9.00	10.01



LTE Band 17				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	5.26
	Low	16QAM	4.50	5.37
	Low	64QAM	4.49	5.32
	Mid	QPSK	4.52	5.24
	Mid	16QAM	4.52	5.52
	Mid	64QAM	4.51	5.19
	High	QPSK	4.53	5.63
	High	16QAM	4.52	5.59
	High	64QAM	4.52	5.54
10	Low	QPSK	9.00	10.08
	Low	16QAM	8.96	9.91
	Low	64QAM	9.00	9.86
	Mid	QPSK	9.02	10.17
	Mid	16QAM	8.98	10.04
	Mid	64QAM	9.01	9.87
	High	QPSK	9.04	10.27
	High	16QAM	8.99	10.07
	High	64QAM	9.01	10.00

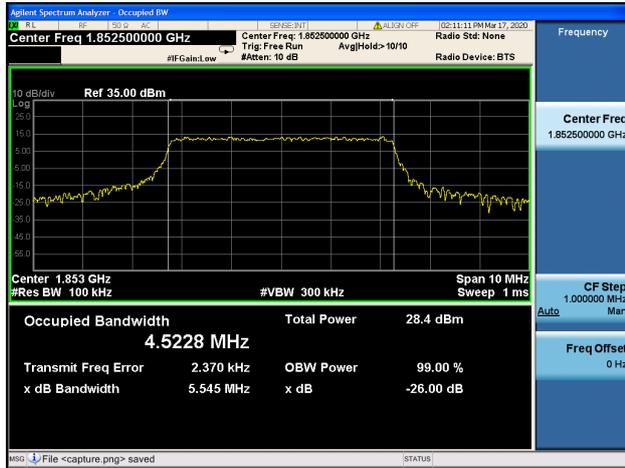




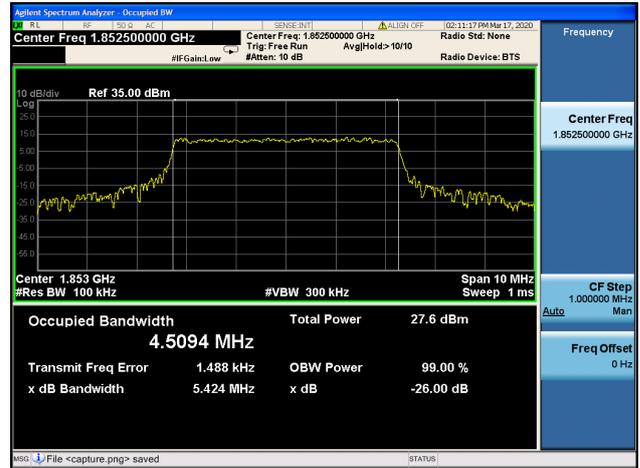




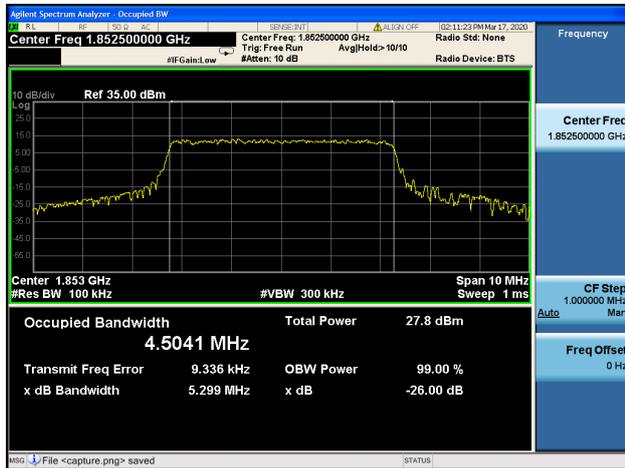
Band2 / 5MHz / Low CH / QPSK



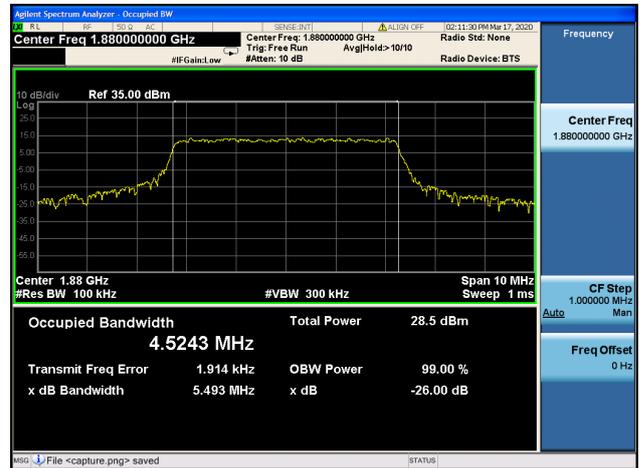
Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / Mid CH / 64QAM

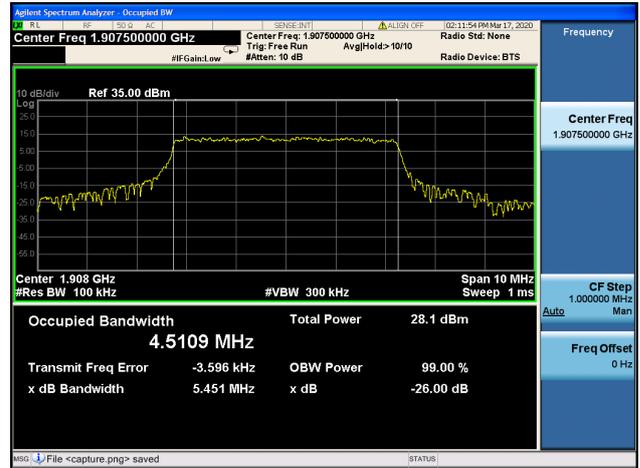




Band2 / 5MHz / High CH / QPSK



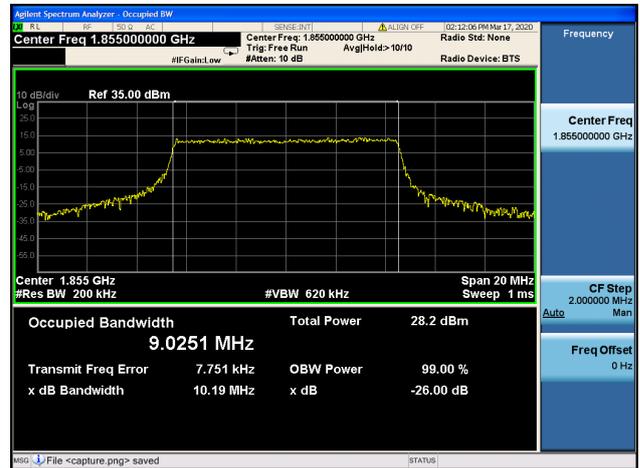
Band2 / 5MHz / High CH / 16QAM



Band2 / 5MHz / High CH / 64QAM



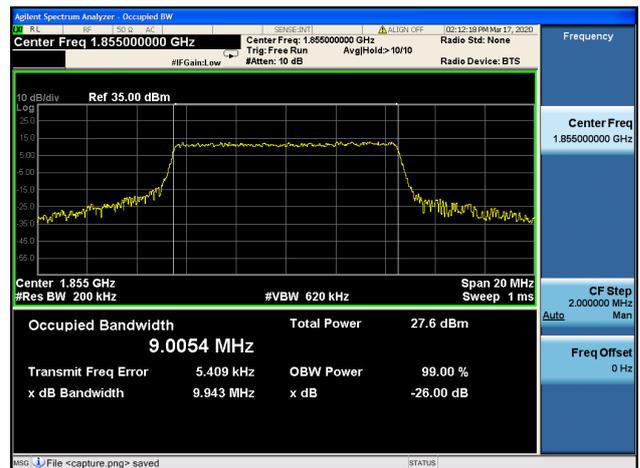
Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM

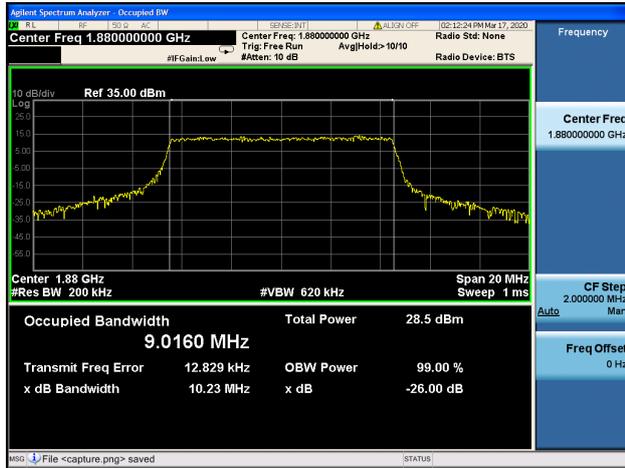


Band2 / 10MHz / Low CH / 64QAM

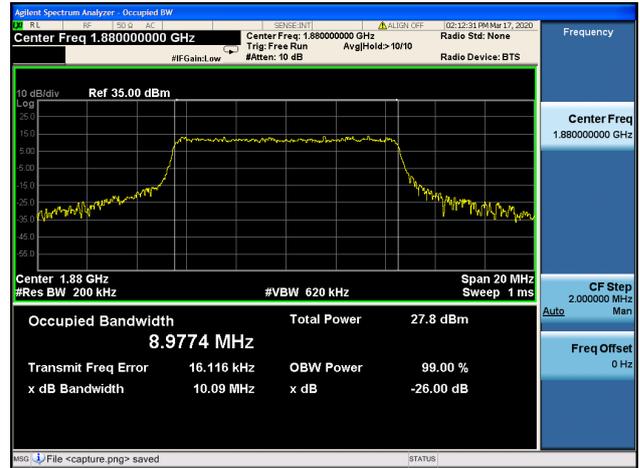




Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / Mid CH / 64QAM



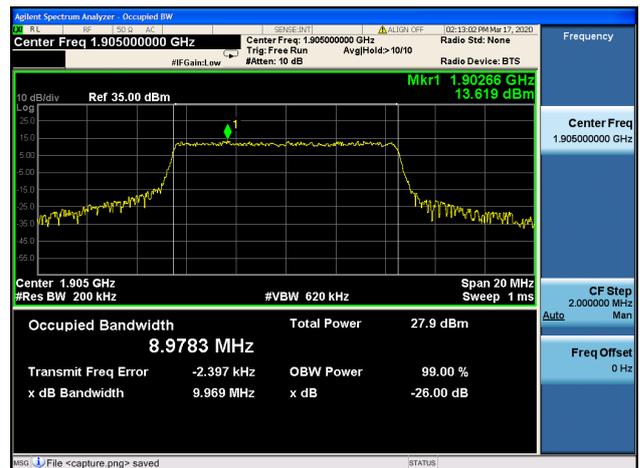
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Band2 / 10MHz / High CH / 16QAM

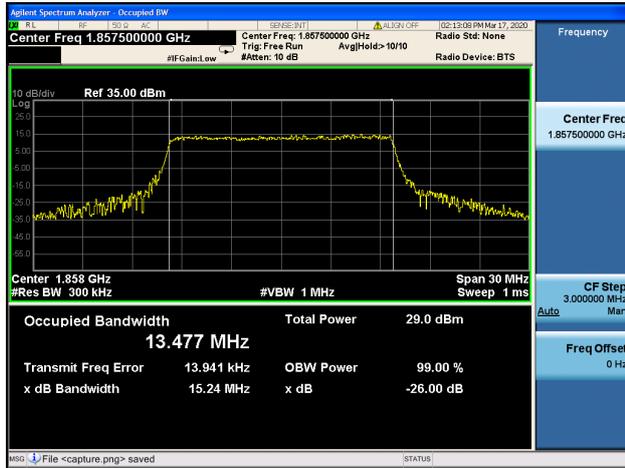


Band2 / 10MHz / High CH / 64QAM

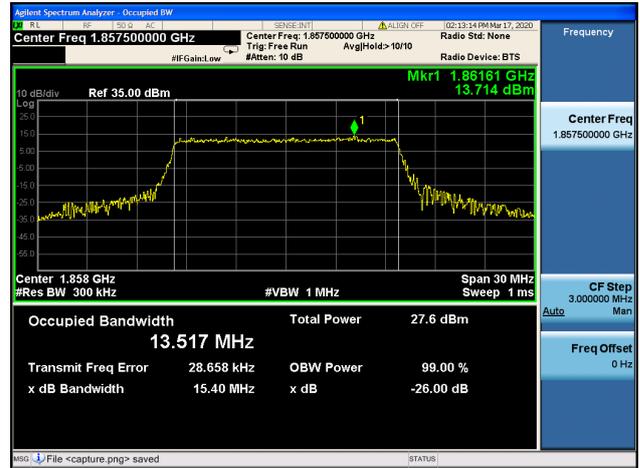




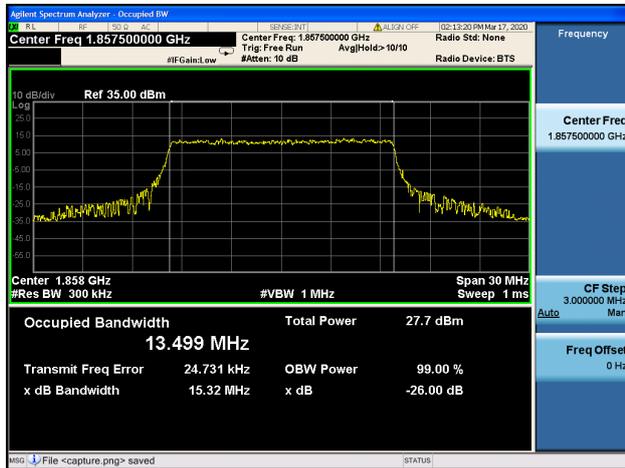
Band2 / 15MHz / Low CH / QPSK



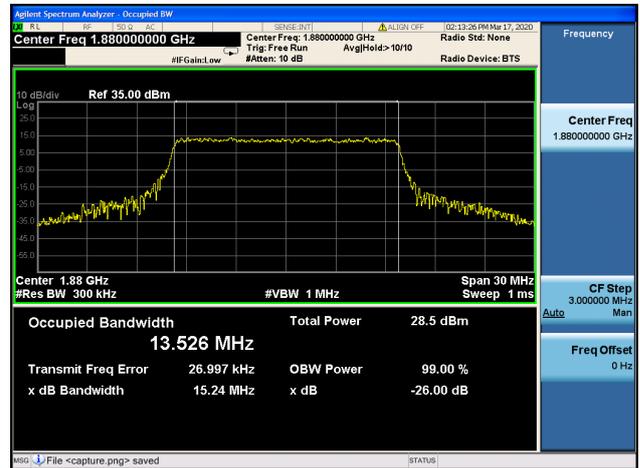
Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Low CH / 64QAM



Band2 / 15MHz / Mid CH / QPSK

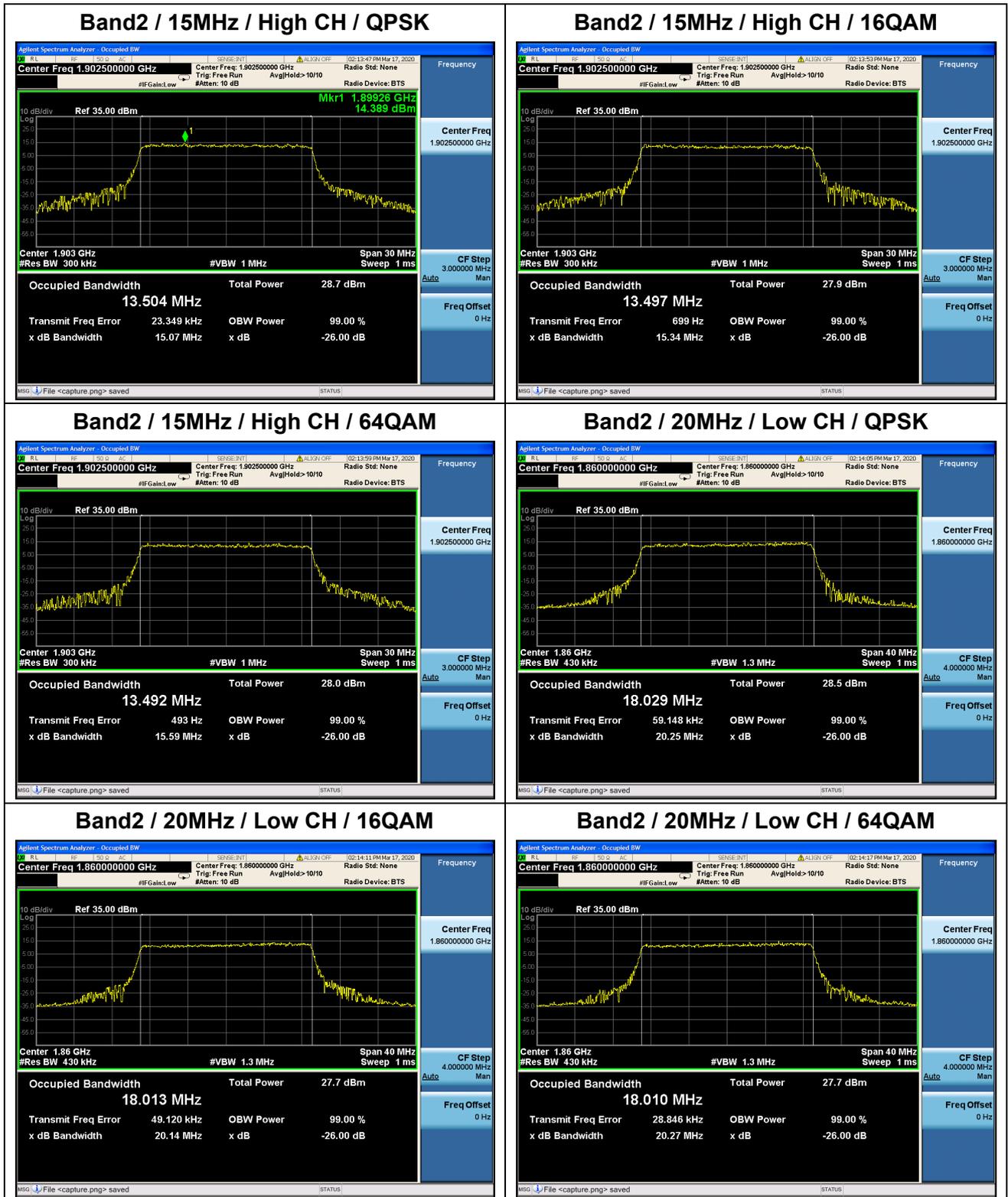


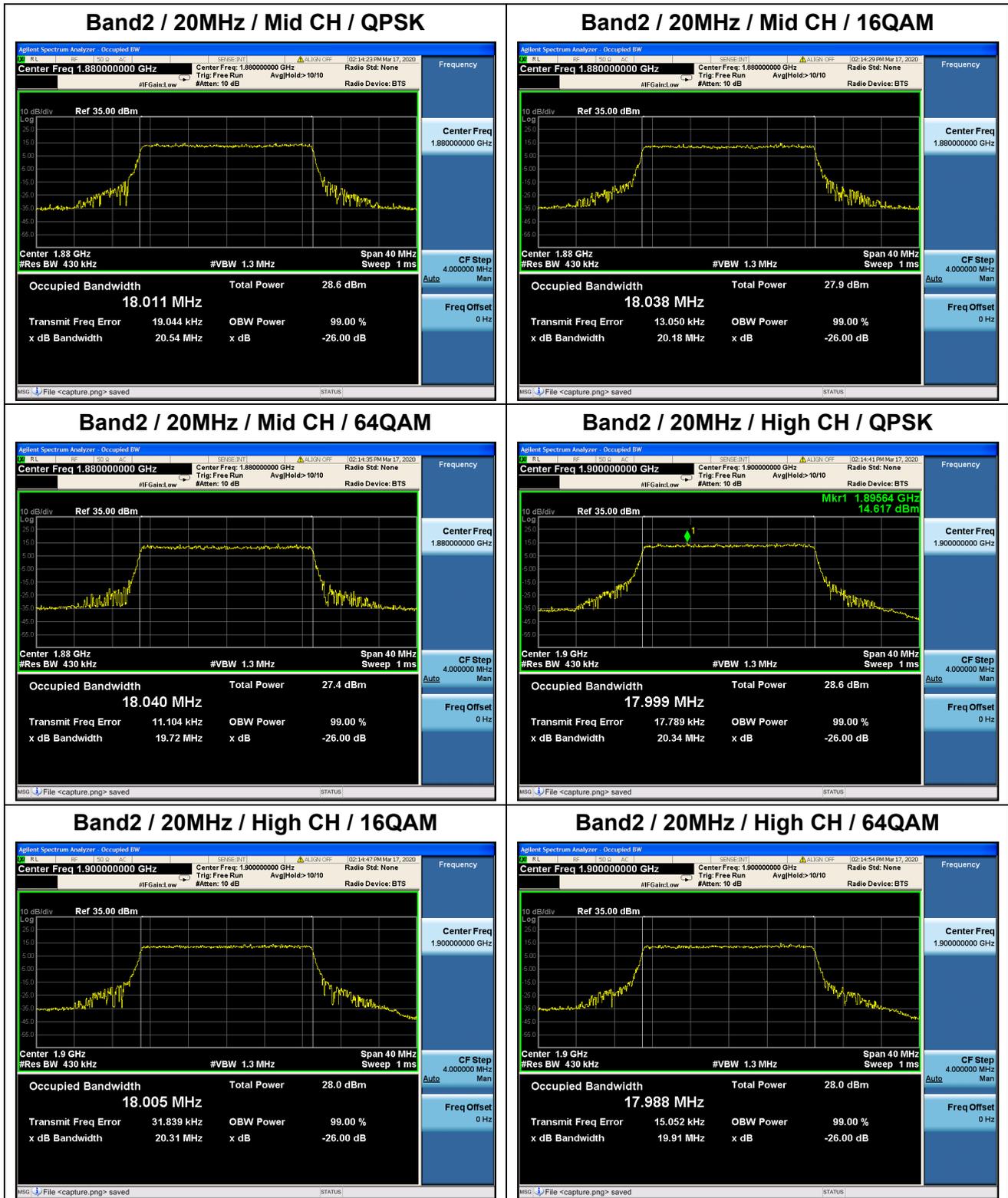
Band2 / 15MHz / Mid CH / 16QAM



Band2 / 15MHz / Mid CH / 64QAM

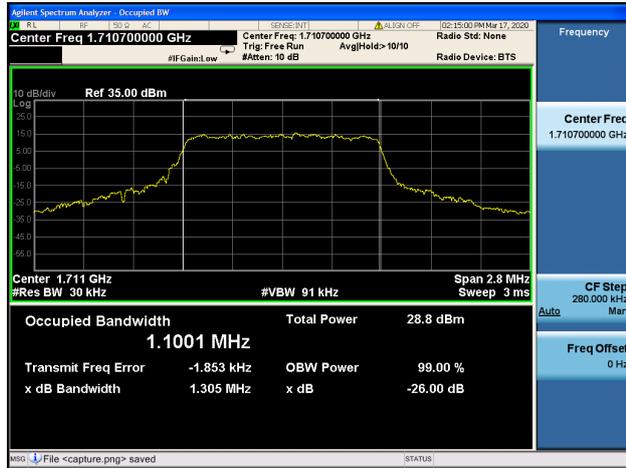




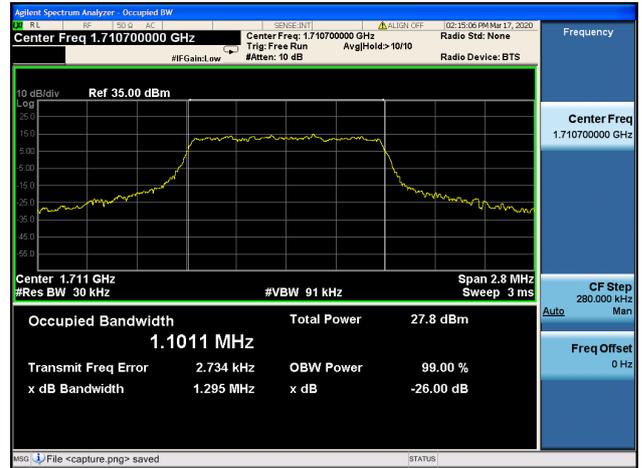




Band4 / 1.4MHz / Low CH / QPSK



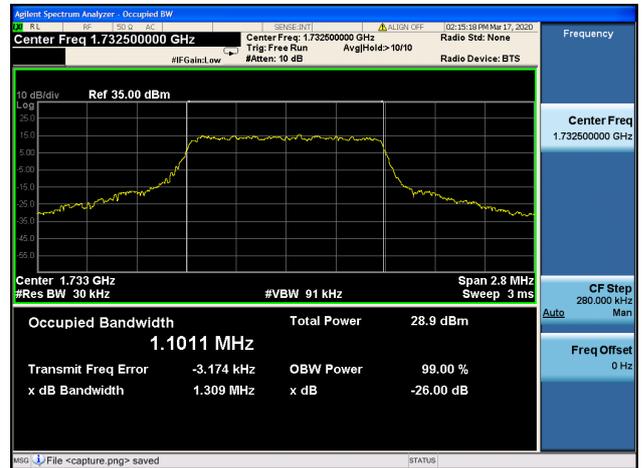
Band4 / 1.4MHz / Low CH / 16QAM



Band4 / 1.4MHz / Low CH / 64QAM



Band4 / 1.4MHz / Mid CH / QPSK

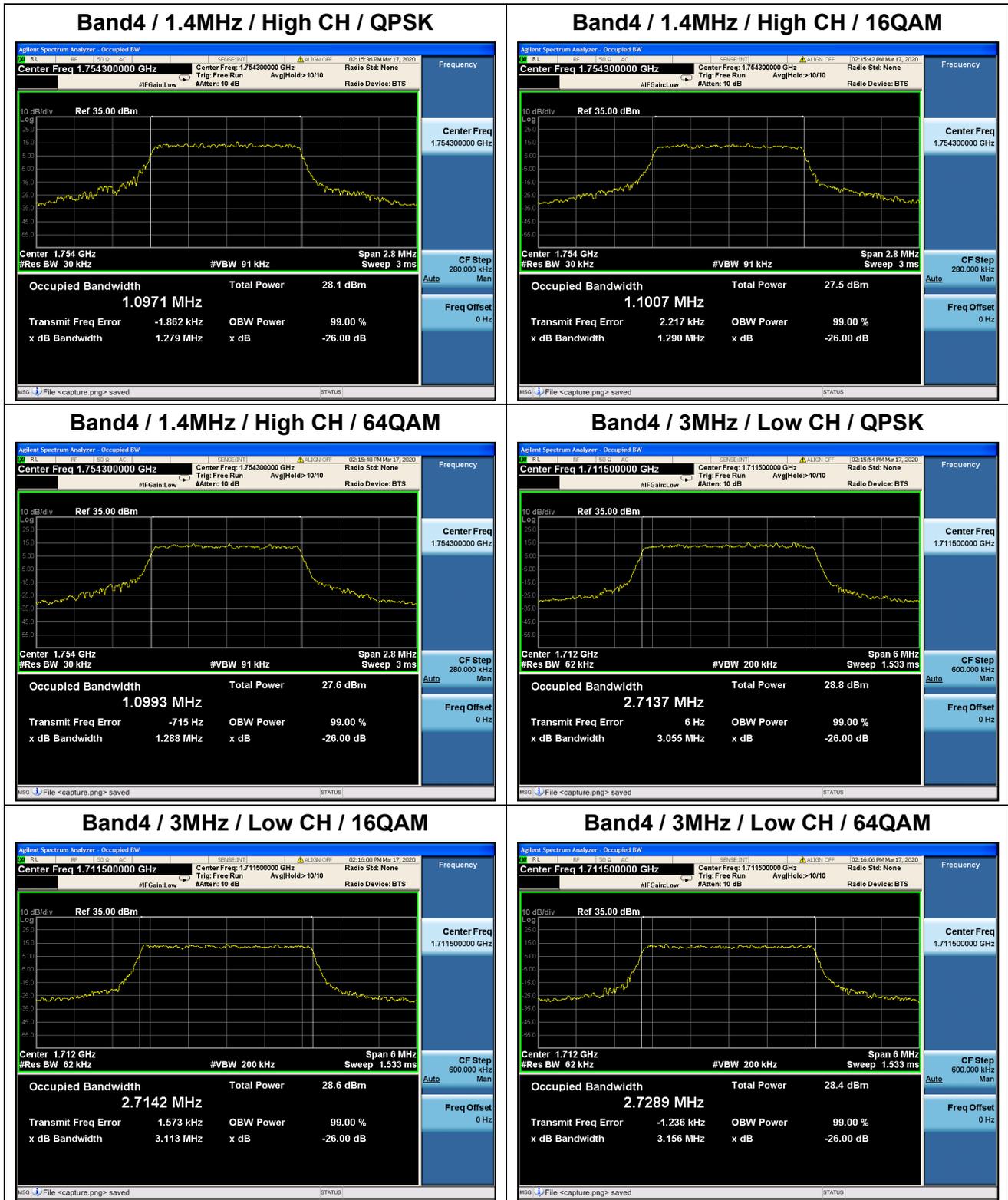


Band4 / 1.4MHz / Mid CH / 16QAM



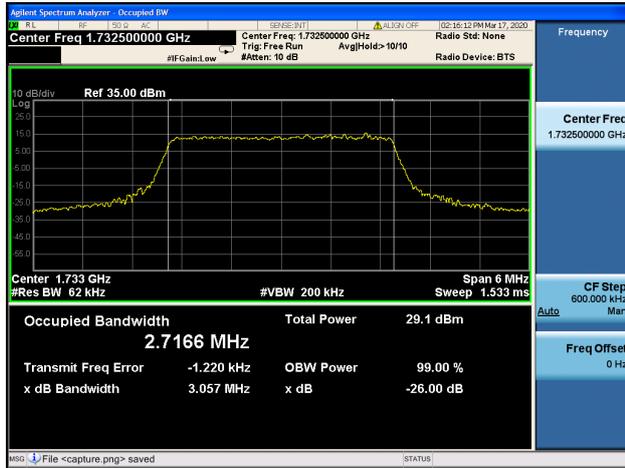
Band4 / 1.4MHz / Mid CH / 64QAM



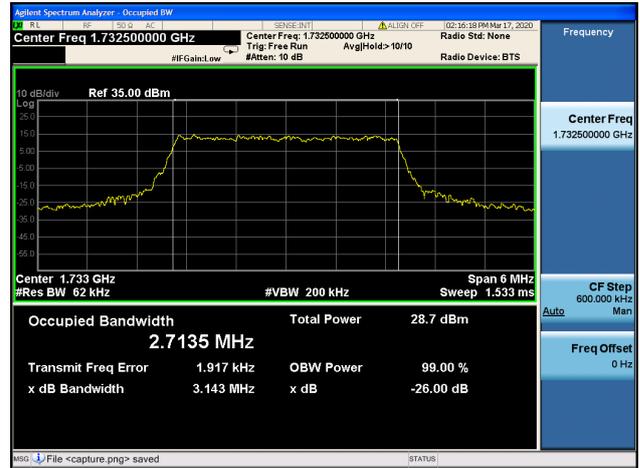




Band4 / 3MHz / Mid CH / QPSK



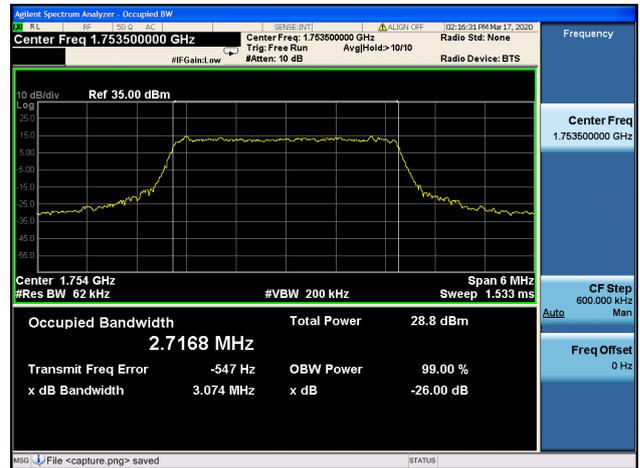
Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / Mid CH / 64QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM

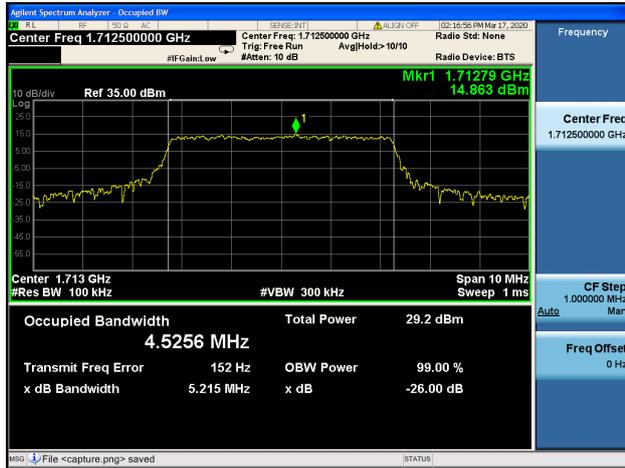


Band4 / 3MHz / High CH / 64QAM

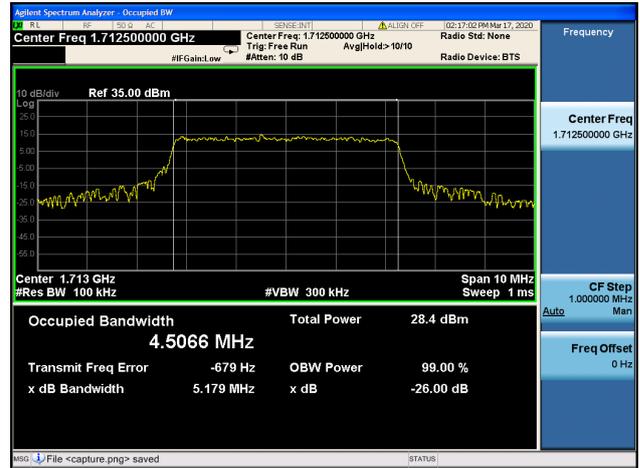




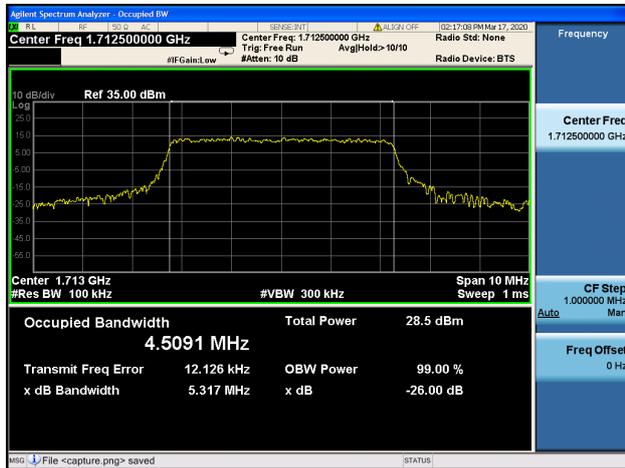
Band4 / 5MHz / Low CH / QPSK



Band4 / 5MHz / Low CH / 16QAM



Band4 / 5MHz / Low CH / 64QAM



Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / Mid CH / 64QAM

