



TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : G61

BRAND NAME : BLU

FCC ID : YHLBLUG61

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

RECEIPT DATE : 2020-11-26

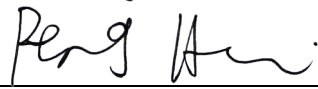
TEST DATE : 2020-12-02 to 2021-01-12

ISSUE DATE : 2021-01-18

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Change History		
Version	Date	Reason for change
1.0	2021-01-18	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

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

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Serial No.:	(N/A, marked #1 by test site)	
Hardware Version:	N/A	
Software Version:	N/A	
Modulation Type:	QPSK, 16QAM	
Carrier Aggregation:	Not support	
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–2570MHz
Rx: 2620MHz–2690MHz		
LTE Band 12	Tx: 699MHz - 716MHz	
	Rx: 729MHz – 746MHz	
LTE Band 17	Tx: 704MHz - 716MHz	
	Rx: 734MHz – 746MHz	
Channel Bandwidth:	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5 MHz, 10MHz, 15MHz, 20MHz



	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	LTE Band 2	-0.8dBi
	LTE Band 4	-0.9dBi
	LTE Band 5	-1.9dBi
	LTE Band 7	0.1dBi
	LTE Band 12	-2.2dBi
	LTE Band 17	-2.3dBi
Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C886452500L
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	5000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Zhongshan TianMao Battery Co., LTD
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-CR-2000
	Serial No.:	(N/A, marked #1 by test site)
	Rated Output:	5.0V \pm 2000mA
	Rated Input:	100-240V \sim 50/60Hz, 0.3A
	Manufacturer:	BJD GROUP CO.,. LIMITED

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

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



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

LTE Band 2		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.177	0.156	0.122	18M0G7D	18M1W7D	18M1W7D	
15	0.173	0.150	0.119	13M5G7D	13M5W7D	13M5W7D	
10	0.173	0.155	0.113	9M03G7D	8M99W7D	9M01W7D	
5	0.168	0.153	0.115	4M52G7D	4M52W7D	4M53W7D	
3	0.176	0.155	0.116	2M72G7D	2M72W7D	2M73W7D	
1.4	0.171	0.151	0.115	1M10G7D	1M10W7D	1M10W7D	
LTE Band 4		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.173	0.147	0.115	18M1G7D	18M1W7D	18M1W7D	
15	0.172	0.146	0.115	13M5G7D	13M5W7D	13M5W7D	
10	0.163	0.149	0.119	9M03G7D	9M00W7D	9M02W7D	
5	0.173	0.154	0.116	4M52G7D	4M52W7D	4M51W7D	
3	0.166	0.146	0.115	2M72G7D	2M73W7D	2M73W7D	
1.4	0.166	0.147	0.116	1M10G7D	1M10W7D	1M10W7D	
LTE Band 5		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.185	0.151	0.116	9M02G7D	8M99W7D	9M02W7D	
5	0.175	0.143	0.116	4M52G7D	4M52W7D	4M51W7D	
3	0.179	0.156	0.113	2M72G7D	2M72W7D	2M72W7D	
1.4	0.181	0.150	0.117	1M10G7D	1M10W7D	1M10W7D	
LTE Band 7		Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.087	0.074	0.056	18M0G7D	18M0W7D	18M0W7D	
15	0.084	0.078	0.057	13M5G7D	13M5W7D	13M5W7D	
10	0.085	0.079	0.059	9M03G7D	8M99W7D	9M01W7D	
5	0.086	0.079	0.054	4M52G7D	4M52W7D	4M50W7D	
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	0.187	0.153	0.148	9M03G7D	8M98W7D	9M01W7D	
5	0.185	0.153	0.148	4M53G7D	4M52W7D	4M52W7D	
3	0.187	0.153	0.148	2M72G7D	2M72W7D	2M73W7D	
1.4	0.171	0.142	0.143	1M10G7D	1M10W7D	1M10W7D	



LTE Band 17	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM
10	0.186	0.155	0.150	9M04G7D	9M01W7D	9M02W7D
5	0.183	0.154	0.149	4M53G7D	4M52W7D	4M52W7D

1.4. Test Standards and Results

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



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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Jan 12, 2021	Chen Hao Peng Xuwei	PASS	No deviation
2.1049	Occupied Bandwidth	Dec 07&08, 2020	Zhou Xiaolong	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Jan 12, 2021	Zhou Xiaolong	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Dec 10&11, 2020	Zhou Xiaolong	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Dec 07&08&09&10, 2020	Zhou Xiaolong	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Band Edge	Dec 07&08&09&10, 2020	Zhou Xiaolong	PASS	No deviation
2.1051 22.917(a)	Radiated Spurious	Dec 02, 2020	Peng Xuwei	PASS	No deviation



24.238(a)	Emissions				
27.53(g)					
27.53(h)					
27.53(m)(4)					

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 23.5dB contains two parts that cable loss 13.5dB and Attenuator 10dB.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

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

1.5. Environmental Conditions

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

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



2.47 CFR Part 2, Part 22H, Part 24E, Part 27 H&L&M Requirements

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

2.1.1. Requirement

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

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

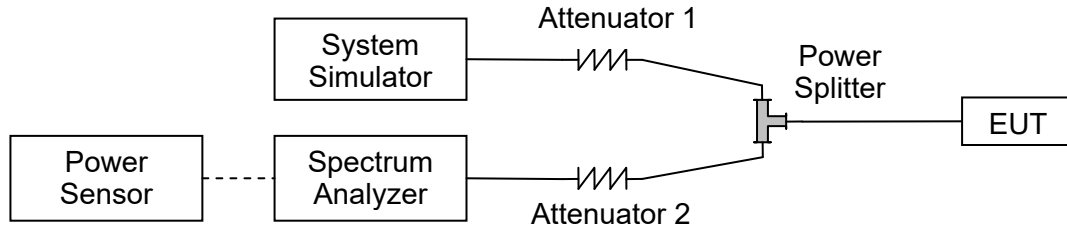
According to FCC section 27.50 (d)(4) for LTE Band 4, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

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

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

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

2.1.2. Test Description



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

2.1.3. Test Procedure

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

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

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



2.1.4. Result

Conducted Output Power:

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.36	22.35	22.49
20	QPSK	1	49	22.14	22.30	22.17
20	QPSK	1	99	22.28	22.09	22.36
20	QPSK	50	0	21.37	21.26	21.41
20	QPSK	50	24	21.17	21.39	21.38
20	QPSK	50	50	21.34	21.25	21.40
20	QPSK	100	0	21.36	21.53	21.33
20	16QAM	1	0	21.91	21.55	21.75
20	16QAM	1	49	21.52	21.49	21.92
20	16QAM	1	99	21.62	21.71	21.78
20	16QAM	50	0	20.40	20.24	20.38
20	16QAM	50	24	20.29	20.39	20.42
20	16QAM	50	50	20.28	20.47	20.42
20	16QAM	100	0	20.34	20.36	20.44
20	64QAM	1	0	20.60	20.88	20.66
20	64QAM	1	49	20.55	20.51	20.38
20	64QAM	1	99	20.58	20.48	20.48
20	64QAM	50	0	20.49	20.43	20.46
20	64QAM	50	24	20.25	20.48	20.41
20	64QAM	50	50	20.18	20.46	20.39
20	64QAM	100	0	20.36	20.39	20.59



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	21.98	22.23	22.04
15	QPSK	1	37	22.18	22.30	22.39
15	QPSK	1	74	22.19	22.24	22.24
15	QPSK	36	0	21.26	21.37	21.29
15	QPSK	36	20	21.27	21.24	21.37
15	QPSK	36	39	21.26	21.24	21.39
15	QPSK	75	0	21.04	21.25	21.31
15	16QAM	1	0	21.45	21.55	21.75
15	16QAM	1	37	21.73	21.52	21.68
15	16QAM	1	74	21.57	21.35	21.42
15	16QAM	36	0	20.20	20.32	20.35
15	16QAM	36	20	20.28	20.31	20.41
15	16QAM	36	39	20.30	20.48	20.38
15	16QAM	75	0	20.36	20.23	20.42
15	64QAM	1	0	20.53	20.44	20.38
15	64QAM	1	37	20.43	20.54	20.32
15	64QAM	1	74	20.48	20.76	20.56
15	64QAM	36	0	20.32	20.38	20.32
15	64QAM	36	20	20.38	20.44	20.39
15	64QAM	36	39	20.36	20.42	20.39
15	64QAM	75	0	20.28	20.31	20.36



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	22.29	22.15	22.39
10	QPSK	1	25	22.12	22.20	22.39
10	QPSK	1	49	22.25	22.13	22.20
10	QPSK	25	0	21.15	21.27	21.09
10	QPSK	25	12	21.28	21.40	21.52
10	QPSK	25	25	21.13	21.40	21.41
10	QPSK	50	0	21.26	21.27	21.34
10	16QAM	1	0	21.59	21.66	21.62
10	16QAM	1	25	21.89	21.52	21.63
10	16QAM	1	49	21.58	21.55	21.88
10	16QAM	25	0	20.21	20.30	20.35
10	16QAM	25	12	20.37	20.33	20.40
10	16QAM	25	25	20.15	20.50	20.49
10	16QAM	50	0	20.38	20.28	20.45
10	64QAM	1	0	20.31	20.35	20.53
10	64QAM	1	25	20.29	20.20	20.46
10	64QAM	1	49	20.33	20.44	20.29
10	64QAM	25	0	20.35	20.46	20.46
10	64QAM	25	12	20.31	20.47	20.39
10	64QAM	25	25	20.41	20.32	20.40
10	64QAM	50	0	20.48	20.25	20.50



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	22.14	22.25	22.11
5	QPSK	1	12	22.02	22.15	22.23
5	QPSK	1	24	22.13	22.24	22.22
5	QPSK	12	0	21.37	21.32	21.35
5	QPSK	12	7	21.16	21.33	21.32
5	QPSK	12	13	21.21	21.32	21.27
5	QPSK	25	0	21.33	21.43	21.51
5	16QAM	1	0	21.62	21.66	21.68
5	16QAM	1	12	21.85	21.65	21.62
5	16QAM	1	24	21.99	21.62	21.77
5	16QAM	12	0	20.32	20.38	20.19
5	16QAM	12	7	20.24	20.39	20.30
5	16QAM	12	13	20.31	20.42	20.34
5	16QAM	25	0	20.44	20.30	20.45
5	64QAM	1	0	20.62	20.62	20.50
5	64QAM	1	12	20.59	20.52	20.44
5	64QAM	1	24	20.55	20.43	20.42
5	64QAM	12	0	20.42	20.33	20.37
5	64QAM	12	7	20.34	20.51	20.46
5	64QAM	12	13	20.46	20.65	20.28
5	64QAM	25	0	20.39	20.29	20.53



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	22.04	22.24	22.46
3	QPSK	1	8	22.19	22.12	22.24
3	QPSK	1	14	22.12	22.12	22.30
3	QPSK	8	0	21.18	21.12	21.36
3	QPSK	8	4	21.11	21.14	21.31
3	QPSK	8	7	21.32	21.45	21.40
3	QPSK	15	0	21.29	21.43	21.52
3	16QAM	1	0	21.60	21.55	21.62
3	16QAM	1	8	21.74	21.56	21.66
3	16QAM	1	14	21.75	21.49	21.91
3	16QAM	8	0	20.31	20.32	20.36
3	16QAM	8	4	20.24	20.40	20.40
3	16QAM	8	7	20.37	20.42	20.31
3	16QAM	15	0	20.23	20.31	20.46
3	64QAM	1	0	20.39	20.42	20.64
3	64QAM	1	8	20.59	20.44	20.29
3	64QAM	1	14	20.62	20.53	20.52
3	64QAM	8	0	20.41	20.34	20.34
3	64QAM	8	4	20.39	20.39	20.42
3	64QAM	8	7	20.24	20.48	20.45
3	64QAM	15	0	20.38	20.29	20.44



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	22.28	22.16	22.33
1.4	QPSK	1	3	22.12	22.16	22.24
1.4	QPSK	1	5	22.23	21.99	22.06
1.4	QPSK	3	0	21.15	21.13	21.36
1.4	QPSK	3	1	21.22	21.13	21.31
1.4	QPSK	3	3	21.16	21.14	21.28
1.4	QPSK	6	0	21.27	21.33	21.39
1.4	16QAM	1	0	21.69	21.55	21.54
1.4	16QAM	1	3	21.52	21.55	21.86
1.4	16QAM	1	5	21.65	21.48	21.78
1.4	16QAM	3	0	20.23	20.62	20.38
1.4	16QAM	3	1	20.55	20.62	20.33
1.4	16QAM	3	3	20.31	20.43	20.37
1.4	16QAM	6	0	20.41	20.35	20.47
1.4	64QAM	1	0	20.55	20.43	20.62
1.4	64QAM	1	3	20.55	20.62	20.52
1.4	64QAM	1	5	20.52	20.25	20.55
1.4	64QAM	3	0	20.05	20.29	20.39
1.4	64QAM	3	1	20.44	20.38	20.48
1.4	64QAM	3	3	20.25	20.49	20.32
1.4	64QAM	6	0	20.36	20.30	20.45



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	22.28	22.36	22.38
20	QPSK	1	49	22.31	22.22	22.32
20	QPSK	1	99	22.11	22.24	22.20
20	QPSK	50	0	21.25	21.17	21.35
20	QPSK	50	24	21.20	21.17	21.31
20	QPSK	50	50	21.19	21.12	21.21
20	QPSK	100	0	21.14	21.05	21.21
20	16QAM	1	0	21.64	21.62	21.62
20	16QAM	1	49	21.66	21.55	21.63
20	16QAM	1	99	21.52	21.37	21.52
20	16QAM	50	0	20.18	20.36	20.25
20	16QAM	50	24	20.23	20.18	20.31
20	16QAM	50	50	20.17	20.22	20.64
20	16QAM	100	0	20.25	20.33	20.33
20	64QAM	1	0	20.52	20.35	20.60
20	64QAM	1	49	20.52	20.41	20.50
20	64QAM	1	99	20.58	20.30	20.45
20	64QAM	50	0	20.26	20.32	20.24
20	64QAM	50	24	20.26	20.29	20.28
20	64QAM	50	50	20.28	20.24	20.60
20	64QAM	100	0	20.17	20.31	20.33



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	22.36	22.13	22.22
15	QPSK	1	37	22.27	22.13	22.17
15	QPSK	1	74	22.12	22.16	22.24
15	QPSK	36	0	21.07	21.13	21.22
15	QPSK	36	20	21.16	21.12	21.41
15	QPSK	36	39	21.16	21.22	21.17
15	QPSK	75	0	21.09	21.15	21.30
15	16QAM	1	0	21.37	21.62	21.55
15	16QAM	1	37	21.56	21.54	21.65
15	16QAM	1	74	21.33	21.76	21.63
15	16QAM	36	0	20.33	20.32	20.32
15	16QAM	36	20	20.13	20.26	20.32
15	16QAM	36	39	20.25	20.15	20.49
15	16QAM	75	0	20.15	20.34	20.31
15	64QAM	1	0	20.49	20.45	20.56
15	64QAM	1	37	20.39	20.52	20.55
15	64QAM	1	74	20.52	20.34	20.62
15	64QAM	36	0	20.26	20.36	20.43
15	64QAM	36	20	20.21	20.21	20.37
15	64QAM	36	39	20.42	20.27	20.67
15	64QAM	75	0	20.16	20.27	20.28



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	22.06	22.12	22.09
10	QPSK	1	25	21.99	22.16	22.13
10	QPSK	1	49	21.90	22.08	22.08
10	QPSK	25	0	21.06	21.32	21.29
10	QPSK	25	12	21.13	21.19	21.34
10	QPSK	25	25	21.24	21.28	21.10
10	QPSK	50	0	21.20	21.34	21.38
10	16QAM	1	0	21.74	21.62	21.52
10	16QAM	1	25	21.55	21.58	21.66
10	16QAM	1	49	21.81	21.44	21.52
10	16QAM	25	0	20.22	20.25	20.31
10	16QAM	25	12	20.12	20.23	20.31
10	16QAM	25	25	20.46	20.22	20.36
10	16QAM	50	0	20.16	20.23	20.35
10	64QAM	1	0	20.54	20.37	20.77
10	64QAM	1	25	20.51	20.35	20.62
10	64QAM	1	49	20.35	20.59	20.58
10	64QAM	25	0	20.29	20.28	20.23
10	64QAM	25	12	20.25	20.32	20.26
10	64QAM	25	25	20.31	20.19	20.61
10	64QAM	50	0	20.19	20.22	20.35



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.19	22.37	22.00
5	QPSK	1	12	22.15	22.14	22.15
5	QPSK	1	24	22.18	22.21	22.23
5	QPSK	12	0	21.19	21.34	21.24
5	QPSK	12	7	21.23	21.25	21.29
5	QPSK	12	13	21.14	21.22	21.19
5	QPSK	25	0	21.09	21.15	21.19
5	16QAM	1	0	21.46	21.88	21.62
5	16QAM	1	12	21.52	21.86	21.55
5	16QAM	1	24	21.62	21.42	21.75
5	16QAM	12	0	20.29	20.33	20.27
5	16QAM	12	7	20.12	20.21	20.27
5	16QAM	12	13	20.37	20.23	20.39
5	16QAM	25	0	20.21	20.21	20.31
5	64QAM	1	0	20.38	20.55	20.52
5	64QAM	1	12	20.63	20.36	20.62
5	64QAM	1	24	20.55	20.52	20.36
5	64QAM	12	0	20.39	20.41	20.25
5	64QAM	12	7	20.19	20.23	20.29
5	64QAM	12	13	20.29	20.21	20.60
5	64QAM	25	0	20.14	20.14	20.35



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.08	22.16	22.09
3	QPSK	1	8	22.00	22.13	22.11
3	QPSK	1	14	22.01	21.79	22.20
3	QPSK	8	0	21.25	21.17	21.26
3	QPSK	8	4	21.20	21.17	21.31
3	QPSK	8	7	21.19	21.12	21.21
3	QPSK	15	0	21.62	21.52	21.21
3	16QAM	1	0	21.64	21.62	21.55
3	16QAM	1	8	21.55	21.52	21.62
3	16QAM	1	14	21.62	21.37	21.52
3	16QAM	8	0	20.18	20.36	20.25
3	16QAM	8	4	20.23	20.18	20.31
3	16QAM	8	7	20.17	20.22	20.64
3	16QAM	15	0	20.25	20.33	20.33
3	64QAM	1	0	20.50	20.52	20.62
3	64QAM	1	8	20.58	20.52	20.54
3	64QAM	1	14	20.48	20.55	20.65
3	64QAM	8	0	20.26	20.32	20.24
3	64QAM	8	4	20.26	20.29	20.28
3	64QAM	8	7	20.28	20.24	20.60
3	64QAM	15	0	20.17	20.31	20.33



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	22.12	22.20	22.13
1.4	QPSK	1	3	22.04	22.17	22.15
1.4	QPSK	1	5	22.05	21.83	22.12
1.4	QPSK	3	0	21.29	21.21	21.30
1.4	QPSK	3	1	21.24	21.21	21.35
1.4	QPSK	3	3	21.23	21.16	21.25
1.4	QPSK	6	0	21.66	21.56	21.25
1.4	16QAM	1	0	21.68	21.66	21.59
1.4	16QAM	1	3	21.59	21.56	21.66
1.4	16QAM	1	5	21.66	21.41	21.56
1.4	16QAM	3	0	20.22	20.40	20.29
1.4	16QAM	3	1	20.27	20.22	20.35
1.4	16QAM	3	3	20.21	20.26	20.68
1.4	16QAM	6	0	20.29	20.37	20.37
1.4	64QAM	1	0	20.54	20.56	20.66
1.4	64QAM	1	3	20.62	20.56	20.58
1.4	64QAM	1	5	20.52	20.59	20.69
1.4	64QAM	3	0	20.30	20.36	20.28
1.4	64QAM	3	1	20.30	20.33	20.32
1.4	64QAM	3	3	20.32	20.28	20.64
1.4	64QAM	6	0	20.21	20.35	20.37



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	22.46	22.59	22.68
10	QPSK	1	25	22.28	22.48	22.32
10	QPSK	1	49	22.50	22.67	22.60
10	QPSK	25	0	21.38	21.36	21.67
10	QPSK	25	12	21.52	21.72	21.55
10	QPSK	25	25	21.62	21.66	21.55
10	QPSK	50	0	21.60	21.57	21.64
10	16QAM	1	0	21.52	21.55	21.35
10	16QAM	1	25	21.79	21.67	21.60
10	16QAM	1	49	21.50	21.69	21.49
10	16QAM	25	0	20.33	20.71	20.65
10	16QAM	25	12	20.33	20.52	20.65
10	16QAM	25	25	20.62	20.55	20.62
10	16QAM	50	0	20.26	20.31	20.46
10	64QAM	1	0	20.24	20.31	20.55
10	64QAM	1	25	20.34	20.34	20.52
10	64QAM	1	49	20.38	20.26	20.62
10	64QAM	25	0	20.33	20.65	20.58
10	64QAM	25	12	20.36	20.54	20.52
10	64QAM	25	25	20.34	20.42	20.50
10	64QAM	50	0	20.45	20.52	20.23



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	22.22	22.41	22.66
5	QPSK	1	12	22.30	22.44	22.24
5	QPSK	1	24	22.30	22.57	22.32
5	QPSK	12	0	21.41	21.43	21.40
5	QPSK	12	7	21.06	21.44	21.53
5	QPSK	12	13	21.25	21.51	21.25
5	QPSK	25	0	21.37	21.31	21.50
5	16QAM	1	0	21.25	21.25	21.26
5	16QAM	1	12	21.22	21.26	21.22
5	16QAM	1	24	21.42	21.55	21.55
5	16QAM	12	0	20.19	20.34	20.42
5	16QAM	12	7	20.54	20.43	20.42
5	16QAM	12	13	20.52	20.29	20.23
5	16QAM	25	0	20.53	20.38	20.39
5	64QAM	1	0	20.45	20.26	20.29
5	64QAM	1	12	20.35	20.40	20.66
5	64QAM	1	24	20.25	20.44	20.55
5	64QAM	12	0	20.51	20.29	20.33
5	64QAM	12	7	20.57	20.40	20.38
5	64QAM	12	13	20.41	20.30	20.22
5	64QAM	25	0	20.55	20.50	20.46



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.27	22.31	22.59
3	QPSK	1	8	22.63	22.23	22.44
3	QPSK	1	14	22.33	22.26	22.54
3	QPSK	8	0	21.20	21.62	21.48
3	QPSK	8	4	21.44	21.51	21.51
3	QPSK	8	7	21.55	21.46	21.29
3	QPSK	15	0	21.37	21.33	21.62
3	16QAM	1	0	21.51	21.78	21.55
3	16QAM	1	8	21.86	21.42	21.92
3	16QAM	1	14	21.74	21.75	21.70
3	16QAM	8	0	20.32	20.52	20.54
3	16QAM	8	4	20.41	20.58	20.36
3	16QAM	8	7	20.36	20.43	20.44
3	16QAM	15	0	20.37	20.29	20.44
3	64QAM	1	0	20.40	20.42	20.44
3	64QAM	1	8	20.31	20.31	20.23
3	64QAM	1	14	20.38	20.26	20.33
3	64QAM	8	0	20.40	20.37	20.42
3	64QAM	8	4	20.43	20.22	20.48
3	64QAM	8	7	20.52	20.20	20.21
3	64QAM	15	0	20.17	20.40	20.40



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	22.27	22.18	22.55
1.4	QPSK	1	3	22.34	22.23	22.40
1.4	QPSK	1	5	22.32	22.26	22.45
1.4	QPSK	3	0	22.50	22.39	22.45
1.4	QPSK	3	1	22.43	22.38	22.58
1.4	QPSK	3	3	22.38	22.36	22.48
1.4	QPSK	6	0	21.56	21.39	21.57
1.4	16QAM	1	0	21.22	21.32	21.32
1.4	16QAM	1	3	21.44	21.42	21.42
1.4	16QAM	1	5	21.22	21.49	21.44
1.4	16QAM	3	0	21.75	21.67	21.54
1.4	16QAM	3	1	21.66	21.58	21.69
1.4	16QAM	3	3	21.45	21.71	21.37
1.4	16QAM	6	0	20.62	20.61	20.55
1.4	64QAM	1	0	20.46	20.60	20.62
1.4	64QAM	1	3	20.55	20.54	20.55
1.4	64QAM	1	5	20.62	20.60	20.50
1.4	64QAM	3	0	20.56	20.55	20.48
1.4	64QAM	3	1	20.54	20.61	20.51
1.4	64QAM	3	3	20.58	20.62	20.70
1.4	64QAM	6	0	20.29	20.29	20.27



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	19.32	19.27	19.42
20	QPSK	1	49	19.24	19.10	19.11
20	QPSK	1	99	19.25	19.07	19.22
20	QPSK	50	0	18.29	18.21	18.47
20	QPSK	50	24	18.23	18.13	18.33
20	QPSK	50	50	18.16	18.31	18.19
20	QPSK	100	0	18.41	18.13	18.23
20	16QAM	1	0	18.52	18.33	18.53
20	16QAM	1	49	18.44	18.67	18.37
20	16QAM	1	99	18.35	18.24	18.42
20	16QAM	50	0	17.33	17.56	17.15
20	16QAM	50	24	17.44	17.12	17.16
20	16QAM	50	50	17.46	17.15	17.18
20	16QAM	100	0	17.11	17.17	17.42
20	64QAM	1	0	17.18	17.12	17.24
20	64QAM	1	49	17.16	17.34	17.26
20	64QAM	1	99	17.35	17.26	17.34
20	64QAM	50	0	17.34	17.33	17.09
20	64QAM	50	24	17.47	17.43	17.27
20	64QAM	50	50	17.40	17.45	17.20
20	64QAM	100	0	17.40	17.28	17.24



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	19.09	18.98	18.94
15	QPSK	1	37	19.11	19.00	19.08
15	QPSK	1	74	19.24	18.98	19.02
15	QPSK	36	0	18.32	18.23	17.97
15	QPSK	36	20	18.20	18.21	18.25
15	QPSK	36	39	18.36	18.00	18.38
15	QPSK	75	0	18.25	18.28	18.39
15	16QAM	1	0	18.73	18.32	18.48
15	16QAM	1	37	19.06	18.94	18.52
15	16QAM	1	74	19.01	18.39	18.40
15	16QAM	36	0	17.05	17.20	17.20
15	16QAM	36	20	17.33	17.16	17.30
15	16QAM	36	39	17.09	17.12	17.19
15	16QAM	75	0	17.26	17.25	17.19
15	64QAM	1	0	17.35	17.33	17.28
15	64QAM	1	37	17.26	17.21	17.21
15	64QAM	1	74	17.34	17.34	17.55
15	64QAM	36	0	17.46	17.38	17.51
15	64QAM	36	20	17.27	17.24	17.40
15	64QAM	36	39	17.43	17.20	17.17
15	64QAM	75	0	17.12	17.33	17.32



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	19.05	19.17	18.99
10	QPSK	1	25	19.18	19.28	18.96
10	QPSK	1	49	19.10	19.20	18.72
10	QPSK	25	0	18.38	18.14	18.06
10	QPSK	25	12	18.22	18.15	18.18
10	QPSK	25	25	18.13	18.13	18.24
10	QPSK	50	0	18.23	17.95	18.24
10	16QAM	1	0	18.42	18.48	18.52
10	16QAM	1	25	18.26	18.40	18.29
10	16QAM	1	49	18.75	18.55	18.96
10	16QAM	25	0	17.51	17.79	17.19
10	16QAM	25	12	17.34	17.15	17.02
10	16QAM	25	25	17.40	17.28	17.12
10	16QAM	50	0	17.41	17.30	17.03
10	64QAM	1	0	17.26	17.35	17.22
10	64QAM	1	25	17.24	17.24	17.26
10	64QAM	1	49	17.34	17.24	17.25
10	64QAM	25	0	17.51	17.57	17.16
10	64QAM	25	12	17.22	17.70	17.20
10	64QAM	25	25	17.35	17.34	17.12
10	64QAM	50	0	17.16	17.32	17.20



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	19.33	19.14	18.99
5	QPSK	1	12	19.36	19.28	19.07
5	QPSK	1	24	19.32	19.11	19.12
5	QPSK	12	0	18.34	18.08	18.02
5	QPSK	12	7	18.23	18.07	18.19
5	QPSK	12	13	18.30	18.26	18.03
5	QPSK	25	0	18.39	18.09	18.04
5	16QAM	1	0	18.76	18.99	18.23
5	16QAM	1	12	18.65	18.42	18.73
5	16QAM	1	24	18.74	18.99	18.60
5	16QAM	12	0	17.37	17.23	17.07
5	16QAM	12	7	17.46	17.08	17.03
5	16QAM	12	13	17.40	17.20	17.15
5	16QAM	25	0	17.35	17.10	17.22
5	64QAM	1	0	17.34	17.30	17.24
5	64QAM	1	12	17.35	17.28	17.13
5	64QAM	1	24	17.24	17.13	17.15
5	64QAM	12	0	17.14	17.09	17.14
5	64QAM	12	7	17.06	17.09	17.09
5	64QAM	12	13	17.21	17.24	17.32
5	64QAM	25	0	17.38	17.28	17.22



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	22.58	22.53	22.72
10	QPSK	1	25	22.51	22.67	22.65
10	QPSK	1	49	22.51	22.63	22.71
10	QPSK	25	0	21.58	21.58	21.85
10	QPSK	25	12	21.62	21.72	21.53
10	QPSK	25	25	21.67	21.61	21.54
10	QPSK	50	0	21.65	21.83	21.55
10	16QAM	1	0	21.86	21.62	21.47
10	16QAM	1	25	21.65	21.52	21.65
10	16QAM	1	49	21.55	21.66	21.55
10	16QAM	25	0	21.32	21.52	21.62
10	16QAM	25	12	21.32	21.14	21.22
10	16QAM	25	25	21.22	21.23	21.23
10	16QAM	50	0	21.23	21.42	21.42
10	64QAM	1	0	21.65	21.55	21.59
10	64QAM	1	25	21.31	21.65	21.53
10	64QAM	1	49	21.78	21.71	21.59
10	64QAM	25	0	20.69	20.62	20.62
10	64QAM	25	12	20.76	20.55	20.52
10	64QAM	25	25	20.89	20.71	20.66
10	64QAM	50	0	20.84	20.98	20.88



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	22.64	22.39	22.47
5	QPSK	1	12	22.53	22.64	22.57
5	QPSK	1	24	22.65	22.68	22.57
5	QPSK	12	0	21.52	21.63	21.71
5	QPSK	12	7	21.50	21.84	21.57
5	QPSK	12	13	21.55	21.51	21.83
5	QPSK	25	0	21.69	21.87	21.72
5	16QAM	1	0	21.71	21.58	21.86
5	16QAM	1	12	21.55	21.55	21.62
5	16QAM	1	24	21.69	21.62	21.55
5	16QAM	12	0	21.62	21.55	21.52
5	16QAM	12	7	21.55	21.62	21.66
5	16QAM	12	13	21.62	21.60	21.62
5	16QAM	25	0	21.66	21.52	21.62
5	64QAM	1	0	21.48	21.51	21.62
5	64QAM	1	12	21.56	21.62	21.55
5	64QAM	1	24	21.62	21.70	21.54
5	64QAM	12	0	20.44	20.76	20.90
5	64QAM	12	7	20.82	20.66	20.78
5	64QAM	12	13	20.56	20.60	20.66
5	64QAM	25	0	20.82	20.62	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				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	22.41	22.53	22.57
3	QPSK	1	8	22.51	22.67	22.54
3	QPSK	1	14	22.51	22.63	22.71
3	QPSK	8	0	21.58	21.58	21.66
3	QPSK	8	4	21.62	21.93	21.53
3	QPSK	8	7	21.67	21.61	21.90
3	QPSK	15	0	21.65	21.83	21.55
3	16QAM	1	0	21.86	21.62	21.47
3	16QAM	1	8	21.62	21.66	21.67
3	16QAM	1	14	21.85	21.62	21.55
3	16QAM	8	0	21.55	21.52	21.62
3	16QAM	8	4	21.62	21.64	21.55
3	16QAM	8	7	21.62	21.55	21.62
3	16QAM	15	0	21.52	21.25	21.67
3	64QAM	1	0	21.65	21.62	21.59
3	64QAM	1	8	21.62	21.65	21.62
3	64QAM	1	14	21.78	21.71	21.59
3	64QAM	8	0	20.62	20.62	20.66
3	64QAM	8	4	20.76	20.55	20.72
3	64QAM	8	7	20.89	20.71	20.77
3	64QAM	15	0	20.84	20.58	20.88



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	22.07	22.19	22.23
1.4	QPSK	1	3	22.17	22.33	22.20
1.4	QPSK	1	5	22.17	22.29	22.26
1.4	QPSK	3	0	22.24	22.24	22.32
1.4	QPSK	3	1	22.28	22.26	22.19
1.4	QPSK	3	3	22.33	22.27	22.24
1.4	QPSK	6	0	21.31	21.49	21.21
1.4	16QAM	1	0	21.52	21.28	21.13
1.4	16QAM	1	3	21.28	21.32	21.33
1.4	16QAM	1	5	21.51	21.28	21.21
1.4	16QAM	3	0	21.21	21.18	21.28
1.4	16QAM	3	1	21.28	21.30	21.21
1.4	16QAM	3	3	21.28	21.21	21.28
1.4	16QAM	6	0	21.18	20.91	21.33
1.4	64QAM	1	0	21.31	21.28	21.25
1.4	64QAM	1	3	21.28	21.31	21.28
1.4	64QAM	1	5	21.44	21.37	21.25
1.4	64QAM	3	0	21.55	21.22	21.32
1.4	64QAM	3	1	21.42	21.22	21.38
1.4	64QAM	3	3	21.25	21.20	21.43
1.4	64QAM	6	0	20.50	20.24	20.54



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	22.42	22.56	22.70
10	QPSK	1	25	22.26	22.51	22.51
10	QPSK	1	49	22.43	22.58	22.57
10	QPSK	25	0	21.21	21.51	21.57
10	QPSK	25	12	21.55	21.26	21.12
10	QPSK	25	25	21.14	21.11	21.49
10	QPSK	50	0	21.59	21.21	21.21
10	16QAM	1	0	21.86	21.80	21.83
10	16QAM	1	25	21.55	21.84	21.90
10	16QAM	1	49	21.62	21.87	21.82
10	16QAM	25	0	21.55	21.52	21.52
10	16QAM	25	12	21.62	21.62	21.62
10	16QAM	25	25	21.55	21.62	21.55
10	16QAM	50	0	21.42	21.22	21.62
10	64QAM	1	0	21.60	21.58	21.51
10	64QAM	1	25	21.69	21.64	21.53
10	64QAM	1	49	21.76	21.72	21.54
10	64QAM	25	0	20.75	20.78	20.50
10	64QAM	25	12	20.57	20.49	20.58
10	64QAM	25	25	20.67	20.66	20.65
10	64QAM	50	0	20.65	20.55	20.46



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	22.20	22.49	22.63
5	QPSK	1	12	22.44	22.46	22.54
5	QPSK	1	24	22.50	22.45	22.52
5	QPSK	12	0	21.20	21.47	21.52
5	QPSK	12	7	21.25	21.17	21.59
5	QPSK	12	13	21.51	21.52	21.56
5	QPSK	25	0	21.12	21.12	21.52
5	16QAM	1	0	21.82	21.93	21.68
5	16QAM	1	12	21.82	21.68	21.76
5	16QAM	1	24	21.79	21.88	21.64
5	16QAM	12	0	21.52	21.45	21.36
5	16QAM	12	7	21.62	21.62	21.35
5	16QAM	12	13	21.44	21.44	21.37
5	16QAM	25	0	21.22	21.35	21.34
5	64QAM	1	0	21.32	21.60	21.43
5	64QAM	1	12	21.56	21.55	21.64
5	64QAM	1	24	21.72	21.52	21.55
5	64QAM	12	0	20.38	20.56	20.43
5	64QAM	12	7	20.40	20.74	20.46
5	64QAM	12	13	20.37	20.71	20.56
5	64QAM	25	0	20.64	20.55	20.45



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	22.36	0.172	22.35	0.172	22.49	0.177
20	QPSK	1	49	22.14	0.164	22.30	0.170	22.17	0.165
20	QPSK	1	99	22.28	0.169	22.09	0.162	22.36	0.172
20	QPSK	50	0	21.37	0.137	21.26	0.134	21.41	0.138
20	QPSK	50	24	21.17	0.131	21.39	0.138	21.38	0.137
20	QPSK	50	50	21.34	0.136	21.25	0.133	21.40	0.138
20	QPSK	100	0	21.36	0.137	21.53	0.142	21.33	0.136
20	16QAM	1	0	21.91	0.155	21.55	0.143	21.75	0.150
20	16QAM	1	49	21.52	0.142	21.49	0.141	21.92	0.156
20	16QAM	1	99	21.62	0.145	21.71	0.148	21.78	0.151
20	16QAM	50	0	20.40	0.110	20.24	0.106	20.38	0.109
20	16QAM	50	24	20.29	0.107	20.39	0.109	20.42	0.110
20	16QAM	50	50	20.28	0.107	20.47	0.111	20.42	0.110
20	16QAM	100	0	20.34	0.108	20.36	0.109	20.44	0.111
20	64QAM	1	0	20.60	0.115	20.88	0.122	20.66	0.116
20	64QAM	1	49	20.55	0.114	20.51	0.112	20.38	0.109
20	64QAM	1	99	20.58	0.114	20.48	0.112	20.48	0.112
20	64QAM	50	0	20.49	0.112	20.43	0.110	20.46	0.111
20	64QAM	50	24	20.25	0.106	20.48	0.112	20.41	0.110
20	64QAM	50	50	20.18	0.104	20.46	0.111	20.39	0.109
20	64QAM	100	0	20.36	0.109	20.39	0.109	20.59	0.115



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	21.98	0.158	22.23	0.167	22.04	0.160
15	QPSK	1	37	22.18	0.165	22.30	0.170	22.39	0.173
15	QPSK	1	74	22.19	0.166	22.24	0.167	22.24	0.167
15	QPSK	36	0	21.26	0.134	21.37	0.137	21.29	0.135
15	QPSK	36	20	21.27	0.134	21.24	0.133	21.37	0.137
15	QPSK	36	39	21.26	0.134	21.24	0.133	21.39	0.138
15	QPSK	75	0	21.04	0.127	21.25	0.133	21.31	0.135
15	16QAM	1	0	21.45	0.140	21.55	0.143	21.75	0.150
15	16QAM	1	37	21.73	0.149	21.52	0.142	21.68	0.147
15	16QAM	1	74	21.57	0.144	21.35	0.136	21.42	0.139
15	16QAM	36	0	20.20	0.105	20.32	0.108	20.35	0.108
15	16QAM	36	20	20.28	0.107	20.31	0.107	20.41	0.110
15	16QAM	36	39	20.30	0.107	20.48	0.112	20.38	0.109
15	16QAM	75	0	20.36	0.109	20.23	0.105	20.42	0.110
15	64QAM	1	0	20.53	0.113	20.44	0.111	20.38	0.109
15	64QAM	1	37	20.43	0.110	20.54	0.113	20.32	0.108
15	64QAM	1	74	20.48	0.112	20.76	0.119	20.56	0.114
15	64QAM	36	0	20.32	0.108	20.38	0.109	20.32	0.108
15	64QAM	36	20	20.38	0.109	20.44	0.111	20.39	0.109
15	64QAM	36	39	20.36	0.109	20.42	0.110	20.39	0.109
15	64QAM	75	0	20.28	0.107	20.31	0.107	20.36	0.109



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	22.29	0.169	22.15	0.164	22.39	0.173
10	QPSK	1	25	22.12	0.163	22.20	0.166	22.39	0.173
10	QPSK	1	49	22.25	0.168	22.13	0.163	22.20	0.166
10	QPSK	25	0	21.15	0.130	21.27	0.134	21.09	0.129
10	QPSK	25	12	21.28	0.134	21.40	0.138	21.52	0.142
10	QPSK	25	25	21.13	0.130	21.40	0.138	21.41	0.138
10	QPSK	50	0	21.26	0.134	21.27	0.134	21.34	0.136
10	16QAM	1	0	21.59	0.144	21.66	0.147	21.62	0.145
10	16QAM	1	25	21.89	0.155	21.52	0.142	21.63	0.146
10	16QAM	1	49	21.58	0.144	21.55	0.143	21.88	0.154
10	16QAM	25	0	20.21	0.105	20.30	0.107	20.35	0.108
10	16QAM	25	12	20.37	0.109	20.33	0.108	20.40	0.110
10	16QAM	25	25	20.15	0.104	20.50	0.112	20.49	0.112
10	16QAM	50	0	20.38	0.109	20.28	0.107	20.45	0.111
10	64QAM	1	0	20.31	0.107	20.35	0.108	20.53	0.113
10	64QAM	1	25	20.29	0.107	20.20	0.105	20.46	0.111
10	64QAM	1	49	20.33	0.108	20.44	0.111	20.29	0.107
10	64QAM	25	0	20.35	0.108	20.46	0.111	20.46	0.111
10	64QAM	25	12	20.31	0.107	20.47	0.111	20.39	0.109
10	64QAM	25	25	20.41	0.110	20.32	0.108	20.40	0.110
10	64QAM	50	0	20.48	0.112	20.25	0.106	20.50	0.112



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	22.14	0.164	22.25	0.168	22.11	0.163
5	QPSK	1	12	22.02	0.159	22.15	0.164	22.23	0.167
5	QPSK	1	24	22.13	0.163	22.24	0.167	22.22	0.167
5	QPSK	12	0	21.37	0.137	21.32	0.136	21.35	0.136
5	QPSK	12	7	21.16	0.131	21.33	0.136	21.32	0.136
5	QPSK	12	13	21.21	0.132	21.32	0.136	21.27	0.134
5	QPSK	25	0	21.33	0.136	21.43	0.139	21.51	0.142
5	16QAM	1	0	21.62	0.145	21.66	0.147	21.68	0.147
5	16QAM	1	12	21.85	0.153	21.65	0.146	21.62	0.145
5	16QAM	1	24	21.99	0.158	21.62	0.145	21.77	0.150
5	16QAM	12	0	20.32	0.108	20.38	0.109	20.19	0.104
5	16QAM	12	7	20.24	0.106	20.39	0.109	20.30	0.107
5	16QAM	12	13	20.31	0.107	20.42	0.110	20.34	0.108
5	16QAM	25	0	20.44	0.111	20.30	0.107	20.45	0.111
5	64QAM	1	0	20.62	0.115	20.62	0.115	20.50	0.112
5	64QAM	1	12	20.59	0.115	20.52	0.113	20.44	0.111
5	64QAM	1	24	20.55	0.114	20.43	0.110	20.42	0.110
5	64QAM	12	0	20.42	0.110	20.33	0.108	20.37	0.109
5	64QAM	12	7	20.34	0.108	20.51	0.112	20.46	0.111
5	64QAM	12	13	20.46	0.111	20.65	0.116	20.28	0.107
5	64QAM	25	0	20.39	0.109	20.29	0.107	20.53	0.113



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	22.04	0.160	22.24	0.167	22.46	0.176
3	QPSK	1	8	22.19	0.166	22.12	0.163	22.24	0.167
3	QPSK	1	14	22.12	0.163	22.12	0.163	22.30	0.170
3	QPSK	8	0	21.18	0.131	21.12	0.129	21.36	0.137
3	QPSK	8	4	21.11	0.129	21.14	0.130	21.31	0.135
3	QPSK	8	7	21.32	0.136	21.45	0.140	21.40	0.138
3	QPSK	15	0	21.29	0.135	21.43	0.139	21.52	0.142
3	16QAM	1	0	21.60	0.145	21.55	0.143	21.62	0.145
3	16QAM	1	8	21.74	0.149	21.56	0.143	21.66	0.147
3	16QAM	1	14	21.75	0.150	21.49	0.141	21.91	0.155
3	16QAM	8	0	20.31	0.107	20.32	0.108	20.36	0.109
3	16QAM	8	4	20.24	0.106	20.40	0.110	20.40	0.110
3	16QAM	8	7	20.37	0.109	20.42	0.110	20.31	0.107
3	16QAM	15	0	20.23	0.105	20.31	0.107	20.46	0.111
3	64QAM	1	0	20.39	0.109	20.42	0.110	20.64	0.116
3	64QAM	1	8	20.59	0.115	20.44	0.111	20.29	0.107
3	64QAM	1	14	20.62	0.115	20.53	0.113	20.52	0.113
3	64QAM	8	0	20.41	0.110	20.34	0.108	20.34	0.108
3	64QAM	8	4	20.39	0.109	20.39	0.109	20.42	0.110
3	64QAM	8	7	20.24	0.106	20.48	0.112	20.45	0.111
3	64QAM	15	0	20.38	0.109	20.29	0.107	20.44	0.111



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	22.28	0.169	22.16	0.164	22.33	0.171
1.4	QPSK	1	3	22.12	0.163	22.16	0.164	22.24	0.167
1.4	QPSK	1	5	22.23	0.167	21.99	0.158	22.06	0.161
1.4	QPSK	3	0	21.15	0.130	21.13	0.130	21.36	0.137
1.4	QPSK	3	1	21.22	0.132	21.13	0.130	21.31	0.135
1.4	QPSK	3	3	21.16	0.131	21.14	0.130	21.28	0.134
1.4	QPSK	6	0	21.27	0.134	21.33	0.136	21.39	0.138
1.4	16QAM	1	0	21.69	0.148	21.55	0.143	21.54	0.143
1.4	16QAM	1	3	21.52	0.142	21.55	0.143	21.86	0.153
1.4	16QAM	1	5	21.65	0.146	21.48	0.141	21.78	0.151
1.4	16QAM	3	0	20.23	0.105	20.62	0.115	20.38	0.109
1.4	16QAM	3	1	20.55	0.114	20.62	0.115	20.33	0.108
1.4	16QAM	3	3	20.31	0.107	20.43	0.110	20.37	0.109
1.4	16QAM	6	0	20.41	0.110	20.35	0.108	20.47	0.111
1.4	64QAM	1	0	20.55	0.114	20.43	0.110	20.62	0.115
1.4	64QAM	1	3	20.55	0.114	20.62	0.115	20.52	0.113
1.4	64QAM	1	5	20.52	0.113	20.25	0.106	20.55	0.114
1.4	64QAM	3	0	20.05	0.101	20.29	0.107	20.39	0.109
1.4	64QAM	3	1	20.44	0.111	20.38	0.109	20.48	0.112
1.4	64QAM	3	3	20.25	0.106	20.49	0.112	20.32	0.108
1.4	64QAM	6	0	20.36	0.109	20.30	0.107	20.45	0.111



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	22.28	0.169	22.36	0.172	22.38	0.173
20	QPSK	1	49	22.31	0.170	22.22	0.167	22.32	0.171
20	QPSK	1	99	22.11	0.163	22.24	0.167	22.20	0.166
20	QPSK	50	0	21.25	0.133	21.17	0.131	21.35	0.136
20	QPSK	50	24	21.20	0.132	21.17	0.131	21.31	0.135
20	QPSK	50	50	21.19	0.132	21.12	0.129	21.21	0.132
20	QPSK	100	0	21.14	0.130	21.05	0.127	21.21	0.132
20	16QAM	1	0	21.64	0.146	21.62	0.145	21.62	0.145
20	16QAM	1	49	21.66	0.147	21.55	0.143	21.63	0.146
20	16QAM	1	99	21.52	0.142	21.37	0.137	21.52	0.142
20	16QAM	50	0	20.18	0.104	20.36	0.109	20.25	0.106
20	16QAM	50	24	20.23	0.105	20.18	0.104	20.31	0.107
20	16QAM	50	50	20.17	0.104	20.22	0.105	20.64	0.116
20	16QAM	100	0	20.25	0.106	20.33	0.108	20.33	0.108
20	64QAM	1	0	20.52	0.113	20.35	0.108	20.60	0.115
20	64QAM	1	49	20.52	0.113	20.41	0.110	20.50	0.112
20	64QAM	1	99	20.58	0.114	20.30	0.107	20.45	0.111
20	64QAM	50	0	20.26	0.106	20.32	0.108	20.24	0.106
20	64QAM	50	24	20.26	0.106	20.29	0.107	20.28	0.107
20	64QAM	50	50	20.28	0.107	20.24	0.106	20.60	0.115
20	64QAM	100	0	20.17	0.104	20.31	0.107	20.33	0.108



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	22.36	0.172	22.13	0.163	22.22	0.167
15	QPSK	1	37	22.27	0.169	22.13	0.163	22.17	0.165
15	QPSK	1	74	22.12	0.163	22.16	0.164	22.24	0.167
15	QPSK	36	0	21.07	0.128	21.13	0.130	21.22	0.132
15	QPSK	36	20	21.16	0.131	21.12	0.129	21.41	0.138
15	QPSK	36	39	21.16	0.131	21.22	0.132	21.17	0.131
15	QPSK	75	0	21.09	0.129	21.15	0.130	21.30	0.135
15	16QAM	1	0	21.37	0.137	21.62	0.145	21.55	0.143
15	16QAM	1	37	21.56	0.143	21.54	0.143	21.65	0.146
15	16QAM	1	74	21.33	0.136	21.76	0.150	21.63	0.146
15	16QAM	36	0	20.33	0.108	20.32	0.108	20.32	0.108
15	16QAM	36	20	20.13	0.103	20.26	0.106	20.32	0.108
15	16QAM	36	39	20.25	0.106	20.15	0.104	20.49	0.112
15	16QAM	75	0	20.15	0.104	20.34	0.108	20.31	0.107
15	64QAM	1	0	20.49	0.112	20.45	0.111	20.56	0.114
15	64QAM	1	37	20.39	0.109	20.52	0.113	20.55	0.114
15	64QAM	1	74	20.52	0.113	20.34	0.108	20.62	0.115
15	64QAM	36	0	20.26	0.106	20.36	0.109	20.43	0.110
15	64QAM	36	20	20.21	0.105	20.21	0.105	20.37	0.109
15	64QAM	36	39	20.42	0.110	20.27	0.106	20.67	0.117
15	64QAM	75	0	20.16	0.104	20.27	0.106	20.28	0.107



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	22.06	0.161	22.12	0.163	22.09	0.162
10	QPSK	1	25	21.99	0.158	22.16	0.164	22.13	0.163
10	QPSK	1	49	21.90	0.155	22.08	0.161	22.08	0.161
10	QPSK	25	0	21.06	0.128	21.32	0.136	21.29	0.135
10	QPSK	25	12	21.13	0.130	21.19	0.132	21.34	0.136
10	QPSK	25	25	21.24	0.133	21.28	0.134	21.10	0.129
10	QPSK	50	0	21.20	0.132	21.34	0.136	21.38	0.137
10	16QAM	1	0	21.74	0.149	21.62	0.145	21.52	0.142
10	16QAM	1	25	21.55	0.143	21.58	0.144	21.66	0.147
10	16QAM	1	49	21.81	0.152	21.44	0.139	21.52	0.142
10	16QAM	25	0	20.22	0.105	20.25	0.106	20.31	0.107
10	16QAM	25	12	20.12	0.103	20.23	0.105	20.31	0.107
10	16QAM	25	25	20.46	0.111	20.22	0.105	20.36	0.109
10	16QAM	50	0	20.16	0.104	20.23	0.105	20.35	0.108
10	64QAM	1	0	20.54	0.113	20.37	0.109	20.77	0.119
10	64QAM	1	25	20.51	0.112	20.35	0.108	20.62	0.115
10	64QAM	1	49	20.35	0.108	20.59	0.115	20.58	0.114
10	64QAM	25	0	20.29	0.107	20.28	0.107	20.23	0.105
10	64QAM	25	12	20.25	0.106	20.32	0.108	20.26	0.106
10	64QAM	25	25	20.31	0.107	20.19	0.104	20.61	0.115
10	64QAM	50	0	20.19	0.104	20.22	0.105	20.35	0.108