



REPORT No.: SZ24100315W06

TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : K30

BRAND NAME : BOLD

FCC ID : YHLBLU30KSP

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

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Change History		
Version	Date	Reason for change
1.0	2024-12-23	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	BLU Products, Inc.
Applicant Address:	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA
Manufacturer:	BLU Products, Inc.
Manufacturer Address:	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Sample No.:	1#, 6#	
Hardware Version:	SPR_S61680_V1.0	
Software Version:	BOLD_K0150_V14.0.01.01_GENERIC_20241107	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 2 / 4 / 5 / 7 / 12 / 13 / 17 / 38 / 40 / 66	
Frequency Range:	LTE Band 2	Tx: 1850MHz–1910MHz
		Rx: 1930MHz–1990MHz
	LTE Band 4	Tx: 1710MHz–1755MHz
		Rx: 2110MHz–2155MHz
	LTE Band 5	Tx: 824MHz–849MHz
		Rx: 869MHz–894MHz
	LTE Band 7	Tx: 2500MHz–2570MHz
		Rx: 2620MHz–2690MHz
	LTE Band 12	Tx: 699MHz–716MHz
		Rx: 729MHz–746MHz
	LTE Band 13	Tx: 777MHz–787MHz
		Rx: 746MHz–756MHz
	LTE Band 17	Tx: 704MHz–716MHz
		Rx: 734MHz–746MHz
	LTE Band 38	Tx: 2570MHz–2620MHz
		Rx: 2570MHz–2620MHz
	LTE Band 40	Tx: 2305MHz–2315MHz



	Block A	Rx: 2305MHz–2315MHz
	LTE Band 40	Tx: 2350MHz–2360MHz
	Block B	Rx: 2350MHz–2360MHz
	LTE Band 66	Tx: 1710MHz –1780MHz Rx: 2110MHz–2200MHz
Channel Bandwidth:	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 12	1.4MHz, 3 MHz, 5MHz, 10MHz
	LTE Band 13	5MHz, 10MHz
	LTE Band 17	5MHz, 10MHz
	LTE Band 38	5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 40	5 MHz, 10MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	-4.10dBi
	LTE Band 4	-4.10dBi
	LTE Band 5	-6.30dBi
	LTE Band 7	-3.20dBi
	LTE Band 12	-6.50dBi
	LTE Band 13	-6.10dBi
	LTE Band 17	-6.50dBi
	LTE Band 38	-3.20dBi
	LTE Band 40	-3.20dBi
	LTE Band 66	-4.10dBi
Accessory Information:	Battery	
	Brand Name:	BOLD
	Model No.:	C976446500P
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	GUANGDONG FENGHUA NEWENERGY CO.,LTD.
	AC Adapter	
	Brand Name:	BOLD



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	Model No.:	US-BJD-225Q
	Serial No.:	N/A
	Rated Output:	5.0V $\Rightarrow$ 3000mA, 9.0V $\Rightarrow$ 2500mA, 10.0V $\Rightarrow$ 2250mA, 12.0V $\Rightarrow$ 1500mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.5A
	Manufacturer:	ShenZhen BaiJunDa Electronic Co., Ltd

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



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

LTE Band 2	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.080	0.068	0.057	17M9G7D	18M0W7D	17M9W7D
15	0.079	0.066	0.056	13M4G7D	13M4W7D	13M4W7D
10	0.078	0.065	0.055	8M97G7D	8M93W7D	8M96W7D
5	0.077	0.065	0.055	4M47G7D	4M47W7D	4M48W7D
3	0.077	0.065	0.054	2M72G7D	2M72W7D	2M71W7D
1.4	0.076	0.064	0.054	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	0.071	0.062	0.051	17M9G7D	17M9W7D	17M9W7D
15	0.070	0.062	0.050	13M4G7D	13M4W7D	13M4W7D
10	0.069	0.061	0.050	8M97G7D	8M94W7D	8M96W7D
5	0.068	0.060	0.049	4M47G7D	4M48W7D	4M48W7D
3	0.067	0.059	0.048	2M72G7D	2M72W7D	2M72W7D
1.4	0.067	0.058	0.048	1M10G7D	1M10W7D	1M11W7D
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	0.029	0.021	0.021	8M95G7D	8M94W7D	8M95W7D
5	0.029	0.021	0.020	4M47G7D	4M48W7D	4M48W7D
3	0.029	0.021	0.020	2M72G7D	2M71W7D	2M72W7D
1.4	0.029	0.021	0.020	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	0.051	0.042	0.035	17M9G7D	17M9W7D	17M9W7D
15	0.050	0.041	0.035	13M5G7D	13M5W7D	13M4W7D
10	0.049	0.040	0.034	8M96G7D	8M94W7D	8M96W7D
5	0.048	0.040	0.033	4M47G7D	4M48W7D	4M48W7D
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	0.028	0.024	0.019	8M96G7D	8M95W7D	8M97W7D
5	0.028	0.024	0.019	4M47G7D	4M48W7D	4M48W7D
3	0.027	0.024	0.019	2M71G7D	2M72W7D	2M72W7D
1.4	0.027	0.023	0.018	1M10G7D	1M10W7D	1M10W7D



LTE Band 13	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.033	0.027	0.022	8M97G7D	8M94W7D	8M95W7D
5	0.032	0.026	0.021	4M47G7D	4M48W7D	4M48W7D
LTE Band 17	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.028	0.024	0.019	8M96G7D	8M94W7D	8M95W7D
5	0.028	0.024	0.019	4M47G7D	4M47W7D	4M48W7D
LTE Band 38	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.098	0.080	0.063	17M9G7D	17M9W7D	17M9W7D
15	0.097	0.079	0.062	13M4G7D	13M4W7D	13M4W7D
10	0.095	0.077	0.061	8M96G7D	8M95W7D	8M96W7D
5	0.094	0.077	0.060	4M48G7D	4M47W7D	4M47W7D
LTE Band 40 Block A	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.089	0.072	0.057	8M96G7D	8M94W7D	8M95W7D
5	0.086	0.071	0.058	4M48G7D	4M47W7D	4M49W7D
LTE Band 40 Block B	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.085	0.068	0.054	8M95G7D	8M94W7D	8M95W7D
5	0.083	0.067	0.055	4M47G7D	4M48W7D	4M48W7D
LTE Band 66	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.083	0.067	0.054	17M9G7D	17M9W7D	17M9W7D
15	0.082	0.067	0.053	13M4G7D	13M4W7D	13M4W7D
10	0.081	0.065	0.052	8M97G7D	8M95W7D	8M96W7D
5	0.079	0.064	0.051	4M47G7D	4M48W7D	4M48W7D
3	0.078	0.063	0.051	2M72G7D	2M72W7D	2M71W7D
1.4	0.078	0.063	0.050	1M11G7D	1M10W7D	1M11W7D



1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(a)(3) 27.50(b)(10) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Dec. 12, 2024	Shen Biaohong Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Nov. 28&29, 2024	Gan Jing	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Dec. 10, 2024	Gan Jing	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Dec. 04, 2024	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(a)(4) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Dec. 04, 2024	Gan Jing	PASS	No deviation



2.1051 22.917(a) 24.238(a) 27.53(a)(4) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Band Edge	Nov. 28&29, 2024	Gan Jing	PASS	No deviation
2.1053 22.917(a) 24.238(a) 27.53(a)(4) 27.53(c)(2) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Nov. 19&20, 2024	Gao Jianrou	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: 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 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.5. Environmental Conditions

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

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



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

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

2.1.1. Requirement

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

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

According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

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

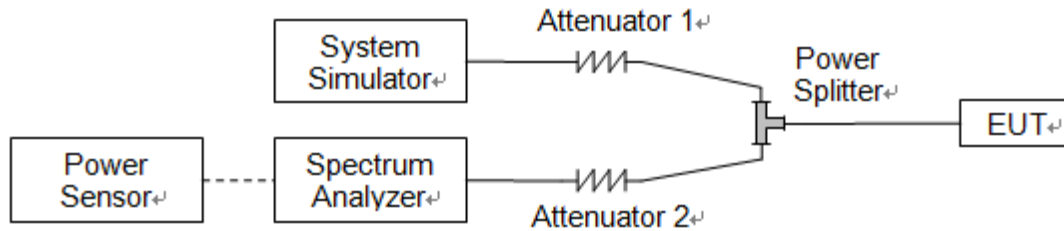
According to FCC section 27.50 (h)(2) for LTE Band 7/38, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

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

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

According to FCC section 27.50 (a)(3) for LTE Band 40, For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average E.I.R.P. must not exceed 50 mill watts within any 1 megahertz of authorized bandwidth.

2.1.2. Test Description



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

2.1.3. Test Procedure

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

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

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

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

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.09	23.15	23.12
20	QPSK	1	49	22.76	22.94	22.83
20	QPSK	1	99	22.69	22.72	22.75
20	QPSK	50	0	21.83	22.02	21.94
20	QPSK	50	24	21.91	21.99	21.83
20	QPSK	50	50	21.82	21.96	21.74
20	QPSK	100	0	21.89	21.93	21.81
20	16QAM	1	0	22.31	22.40	22.24
20	16QAM	1	49	22.25	22.31	22.30
20	16QAM	1	99	22.14	22.16	22.08
20	16QAM	50	0	21.16	21.24	21.19
20	16QAM	50	24	21.13	21.22	21.17
20	16QAM	50	50	21.00	21.07	20.99
20	16QAM	100	0	21.04	21.23	21.08
20	64QAM	1	0	21.53	21.65	21.54
20	64QAM	1	49	21.38	21.57	21.46
20	64QAM	1	99	21.48	21.49	21.34
20	64QAM	50	0	20.49	20.58	20.46
20	64QAM	50	24	20.46	20.56	20.39
20	64QAM	50	50	20.24	20.44	20.40
20	64QAM	100	0	20.32	20.51	20.34



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	23.01	23.07	23.04
15	QPSK	1	37	22.68	22.86	22.75
15	QPSK	1	74	22.61	22.64	22.67
15	QPSK	36	0	21.75	21.94	21.86
15	QPSK	36	20	21.83	21.91	21.75
15	QPSK	36	39	21.74	21.88	21.66
15	QPSK	75	0	21.81	21.85	21.73
15	16QAM	1	0	22.23	22.32	22.16
15	16QAM	1	37	22.17	22.23	22.22
15	16QAM	1	74	22.06	22.08	22.00
15	16QAM	36	0	21.08	21.16	21.11
15	16QAM	36	20	21.05	21.14	21.09
15	16QAM	36	39	20.92	20.99	20.91
15	16QAM	75	0	20.96	21.15	21.00
15	64QAM	1	0	21.45	21.57	21.46
15	64QAM	1	37	21.30	21.49	21.38
15	64QAM	1	74	21.40	21.41	21.26
15	64QAM	36	0	20.41	20.50	20.38
15	64QAM	36	20	20.38	20.48	20.31
15	64QAM	36	39	20.16	20.36	20.32
15	64QAM	75	0	20.24	20.43	20.26



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.95	23.01	22.98
10	QPSK	1	25	22.62	22.80	22.69
10	QPSK	1	49	22.55	22.58	22.61
10	QPSK	25	0	21.69	21.88	21.80
10	QPSK	25	12	21.77	21.85	21.69
10	QPSK	25	25	21.68	21.82	21.60
10	QPSK	50	0	21.75	21.79	21.67
10	16QAM	1	0	22.17	22.26	22.10
10	16QAM	1	25	22.11	22.17	22.16
10	16QAM	1	49	22.00	22.02	21.94
10	16QAM	25	0	21.02	21.10	21.05
10	16QAM	25	12	20.99	21.08	21.03
10	16QAM	25	25	20.86	20.93	20.85
10	16QAM	50	0	20.90	21.09	20.94
10	64QAM	1	0	21.39	21.51	21.40
10	64QAM	1	25	21.24	21.43	21.32
10	64QAM	1	49	21.34	21.35	21.20
10	64QAM	25	0	20.35	20.44	20.32
10	64QAM	25	12	20.32	20.42	20.25
10	64QAM	25	25	20.10	20.30	20.26
10	64QAM	50	0	20.18	20.37	20.20



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	22.93	22.99	22.96
5	QPSK	1	12	22.60	22.78	22.67
5	QPSK	1	24	22.53	22.56	22.59
5	QPSK	12	0	21.67	21.86	21.78
5	QPSK	12	7	21.75	21.83	21.67
5	QPSK	12	13	21.66	21.80	21.58
5	QPSK	25	0	21.73	21.77	21.65
5	16QAM	1	0	22.15	22.24	22.08
5	16QAM	1	12	22.09	22.15	22.14
5	16QAM	1	24	21.98	22.00	21.92
5	16QAM	12	0	21.00	21.08	21.03
5	16QAM	12	7	20.97	21.06	21.01
5	16QAM	12	13	20.84	20.91	20.83
5	16QAM	25	0	20.88	21.07	20.92
5	64QAM	1	0	21.37	21.49	21.38
5	64QAM	1	12	21.22	21.41	21.30
5	64QAM	1	24	21.32	21.33	21.18
5	64QAM	12	0	20.33	20.42	20.30
5	64QAM	12	7	20.30	20.40	20.23
5	64QAM	12	13	20.08	20.28	20.24
5	64QAM	25	0	20.16	20.35	20.18



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	22.89	22.95	22.92
3	QPSK	1	8	22.56	22.74	22.63
3	QPSK	1	14	22.49	22.52	22.55
3	QPSK	8	0	21.63	21.82	21.74
3	QPSK	8	4	21.71	21.79	21.63
3	QPSK	8	7	21.62	21.76	21.54
3	QPSK	15	0	21.69	21.73	21.61
3	16QAM	1	0	22.11	22.20	22.04
3	16QAM	1	8	22.05	22.11	22.10
3	16QAM	1	14	21.94	21.96	21.88
3	16QAM	8	0	20.96	21.04	20.99
3	16QAM	8	4	20.93	21.02	20.97
3	16QAM	8	7	20.80	20.87	20.79
3	16QAM	15	0	20.84	21.03	20.88
3	64QAM	1	0	21.33	21.45	21.34
3	64QAM	1	8	21.18	21.37	21.26
3	64QAM	1	14	21.28	21.29	21.14
3	64QAM	8	0	20.29	20.38	20.26
3	64QAM	8	4	20.26	20.36	20.19
3	64QAM	8	7	20.04	20.24	20.20
3	64QAM	15	0	20.12	20.31	20.14



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	22.86	22.92	22.89
1.4	QPSK	1	3	22.53	22.71	22.60
1.4	QPSK	1	5	22.46	22.49	22.52
1.4	QPSK	3	0	21.60	21.79	21.71
1.4	QPSK	3	1	21.68	21.76	21.60
1.4	QPSK	3	3	21.59	21.73	21.51
1.4	QPSK	6	0	21.66	21.70	21.58
1.4	16QAM	1	0	22.08	22.17	22.01
1.4	16QAM	1	3	22.02	22.08	22.07
1.4	16QAM	1	5	21.91	21.93	21.85
1.4	16QAM	3	0	20.93	21.01	20.96
1.4	16QAM	3	1	20.90	20.99	20.94
1.4	16QAM	3	3	20.77	20.84	20.76
1.4	16QAM	6	0	20.81	21.00	20.85
1.4	64QAM	1	0	21.30	21.42	21.31
1.4	64QAM	1	3	21.15	21.34	21.23
1.4	64QAM	1	5	21.25	21.26	21.11
1.4	64QAM	3	0	20.26	20.35	20.23
1.4	64QAM	3	1	20.23	20.33	20.16
1.4	64QAM	3	3	20.01	20.21	20.17
1.4	64QAM	6	0	20.09	20.28	20.11



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	22.59	22.63	22.61
20	QPSK	1	49	22.42	22.50	22.43
20	QPSK	1	99	22.47	22.54	22.45
20	QPSK	50	0	21.50	21.52	21.49
20	QPSK	50	24	21.49	21.50	21.40
20	QPSK	50	50	21.40	21.45	21.35
20	QPSK	100	0	21.42	21.47	21.44
20	16QAM	1	0	21.99	22.05	22.03
20	16QAM	1	49	21.94	22.01	21.96
20	16QAM	1	99	21.95	21.98	21.96
20	16QAM	50	0	20.72	20.81	20.76
20	16QAM	50	24	20.76	20.85	20.75
20	16QAM	50	50	20.79	20.87	20.79
20	16QAM	100	0	20.81	20.84	20.87
20	64QAM	1	0	21.17	21.19	21.13
20	64QAM	1	49	21.11	21.13	21.07
20	64QAM	1	99	21.16	21.17	21.13
20	64QAM	50	0	19.85	19.93	19.91
20	64QAM	50	24	19.81	19.91	19.87
20	64QAM	50	50	19.93	19.97	19.87
20	64QAM	100	0	19.95	20.03	19.96



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	22.53	22.57	22.55
15	QPSK	1	37	22.36	22.44	22.37
15	QPSK	1	74	22.41	22.48	22.39
15	QPSK	36	0	21.44	21.46	21.43
15	QPSK	36	20	21.43	21.44	21.34
15	QPSK	36	39	21.34	21.39	21.29
15	QPSK	75	0	21.36	21.41	21.38
15	16QAM	1	0	21.93	21.99	21.97
15	16QAM	1	37	21.88	21.95	21.90
15	16QAM	1	74	21.89	21.92	21.90
15	16QAM	36	0	20.66	20.75	20.70
15	16QAM	36	20	20.70	20.79	20.69
15	16QAM	36	39	20.73	20.81	20.73
15	16QAM	75	0	20.75	20.78	20.81
15	64QAM	1	0	21.11	21.13	21.07
15	64QAM	1	37	21.05	21.07	21.01
15	64QAM	1	74	21.10	21.11	21.07
15	64QAM	36	0	19.79	19.87	19.85
15	64QAM	36	20	19.75	19.85	19.81
15	64QAM	36	39	19.87	19.91	19.81
15	64QAM	75	0	19.89	19.97	19.90



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	22.46	22.50	22.48
10	QPSK	1	25	22.29	22.37	22.30
10	QPSK	1	49	22.34	22.41	22.32
10	QPSK	25	0	21.37	21.39	21.36
10	QPSK	25	12	21.36	21.37	21.27
10	QPSK	25	25	21.27	21.32	21.22
10	QPSK	50	0	21.29	21.34	21.31
10	16QAM	1	0	21.86	21.92	21.90
10	16QAM	1	25	21.81	21.88	21.83
10	16QAM	1	49	21.82	21.85	21.83
10	16QAM	25	0	20.59	20.68	20.63
10	16QAM	25	12	20.63	20.72	20.62
10	16QAM	25	25	20.66	20.74	20.66
10	16QAM	50	0	20.68	20.71	20.74
10	64QAM	1	0	21.04	21.06	21.00
10	64QAM	1	25	20.98	21.00	20.94
10	64QAM	1	49	21.03	21.04	21.00
10	64QAM	25	0	19.72	19.80	19.78
10	64QAM	25	12	19.68	19.78	19.74
10	64QAM	25	25	19.80	19.84	19.74
10	64QAM	50	0	19.82	19.90	19.83



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	22.40	22.44	22.42
5	QPSK	1	12	22.23	22.31	22.24
5	QPSK	1	24	22.28	22.35	22.26
5	QPSK	12	0	21.31	21.33	21.30
5	QPSK	12	7	21.30	21.31	21.21
5	QPSK	12	13	21.21	21.26	21.16
5	QPSK	25	0	21.23	21.28	21.25
5	16QAM	1	0	21.80	21.86	21.84
5	16QAM	1	12	21.75	21.82	21.77
5	16QAM	1	24	21.76	21.79	21.77
5	16QAM	12	0	20.53	20.62	20.57
5	16QAM	12	7	20.57	20.66	20.56
5	16QAM	12	13	20.60	20.68	20.60
5	16QAM	25	0	20.62	20.65	20.68
5	64QAM	1	0	20.98	21.00	20.94
5	64QAM	1	12	20.92	20.94	20.88
5	64QAM	1	24	20.97	20.98	20.94
5	64QAM	12	0	19.66	19.74	19.72
5	64QAM	12	7	19.62	19.72	19.68
5	64QAM	12	13	19.74	19.78	19.68
5	64QAM	25	0	19.76	19.84	19.77



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	22.34	22.38	22.36
3	QPSK	1	8	22.17	22.25	22.18
3	QPSK	1	14	22.22	22.29	22.20
3	QPSK	8	0	21.25	21.27	21.24
3	QPSK	8	4	21.24	21.25	21.15
3	QPSK	8	7	21.15	21.20	21.10
3	QPSK	15	0	21.17	21.22	21.19
3	16QAM	1	0	21.74	21.80	21.78
3	16QAM	1	8	21.69	21.76	21.71
3	16QAM	1	14	21.70	21.73	21.71
3	16QAM	8	0	20.47	20.56	20.51
3	16QAM	8	4	20.51	20.60	20.50
3	16QAM	8	7	20.54	20.62	20.54
3	16QAM	15	0	20.56	20.59	20.62
3	64QAM	1	0	20.92	20.94	20.88
3	64QAM	1	8	20.86	20.88	20.82
3	64QAM	1	14	20.91	20.92	20.88
3	64QAM	8	0	19.60	19.68	19.66
3	64QAM	8	4	19.56	19.66	19.62
3	64QAM	8	7	19.68	19.72	19.62
3	64QAM	15	0	19.70	19.78	19.71



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	22.29	22.33	22.31
1.4	QPSK	1	3	22.12	22.20	22.13
1.4	QPSK	1	5	22.17	22.24	22.15
1.4	QPSK	3	0	21.20	21.22	21.19
1.4	QPSK	3	1	21.19	21.20	21.10
1.4	QPSK	3	3	21.10	21.15	21.05
1.4	QPSK	6	0	21.12	21.17	21.14
1.4	16QAM	1	0	21.69	21.75	21.73
1.4	16QAM	1	3	21.64	21.71	21.66
1.4	16QAM	1	5	21.65	21.68	21.66
1.4	16QAM	3	0	20.42	20.51	20.46
1.4	16QAM	3	1	20.46	20.55	20.45
1.4	16QAM	3	3	20.49	20.57	20.49
1.4	16QAM	6	0	20.51	20.54	20.57
1.4	64QAM	1	0	20.87	20.89	20.83
1.4	64QAM	1	3	20.81	20.83	20.77
1.4	64QAM	1	5	20.86	20.87	20.83
1.4	64QAM	3	0	19.55	19.63	19.61
1.4	64QAM	3	1	19.51	19.61	19.57
1.4	64QAM	3	3	19.63	19.67	19.57
1.4	64QAM	6	0	19.65	19.73	19.66



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.09	23.14	23.11
10	QPSK	1	25	23.00	22.91	22.93
10	QPSK	1	49	22.67	22.66	22.68
10	QPSK	25	0	22.17	22.20	22.03
10	QPSK	25	12	22.08	22.13	21.95
10	QPSK	25	25	21.92	22.05	21.81
10	QPSK	50	0	21.83	21.92	21.88
10	16QAM	1	0	21.71	21.77	21.69
10	16QAM	1	25	21.66	21.74	21.69
10	16QAM	1	49	21.69	21.70	21.64
10	16QAM	25	0	20.50	20.57	20.50
10	16QAM	25	12	20.40	20.48	20.39
10	16QAM	25	25	20.45	20.50	20.47
10	16QAM	50	0	20.43	20.53	20.43
10	64QAM	1	0	21.56	21.58	21.48
10	64QAM	1	25	21.44	21.54	21.46
10	64QAM	1	49	21.49	21.50	21.46
10	64QAM	25	0	20.43	20.48	20.41
10	64QAM	25	12	20.41	20.45	20.35
10	64QAM	25	25	20.40	20.44	20.40
10	64QAM	50	0	20.39	20.41	20.34



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.04	23.09	23.06
5	QPSK	1	12	22.95	22.86	22.88
5	QPSK	1	24	22.62	22.61	22.63
5	QPSK	12	0	22.12	22.15	21.98
5	QPSK	12	7	22.03	22.08	21.90
5	QPSK	12	13	21.87	22.00	21.76
5	QPSK	25	0	21.78	21.87	21.83
5	16QAM	1	0	21.66	21.72	21.64
5	16QAM	1	12	21.61	21.69	21.64
5	16QAM	1	24	21.64	21.65	21.59
5	16QAM	12	0	20.45	20.52	20.45
5	16QAM	12	7	20.35	20.43	20.34
5	16QAM	12	13	20.40	20.45	20.42
5	16QAM	25	0	20.38	20.48	20.38
5	64QAM	1	0	21.51	21.53	21.43
5	64QAM	1	12	21.39	21.49	21.41
5	64QAM	1	24	21.44	21.45	21.41
5	64QAM	12	0	20.38	20.43	20.36
5	64QAM	12	7	20.36	20.40	20.30
5	64QAM	12	13	20.35	20.39	20.35
5	64QAM	25	0	20.34	20.36	20.29



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	22.99	23.04	23.01
3	QPSK	1	8	22.90	22.81	22.83
3	QPSK	1	14	22.57	22.56	22.58
3	QPSK	8	0	22.07	22.10	21.93
3	QPSK	8	4	21.98	22.03	21.85
3	QPSK	8	7	21.82	21.95	21.71
3	QPSK	15	0	21.73	21.82	21.78
3	16QAM	1	0	21.61	21.67	21.59
3	16QAM	1	8	21.56	21.64	21.59
3	16QAM	1	14	21.59	21.60	21.54
3	16QAM	8	0	20.40	20.47	20.40
3	16QAM	8	4	20.30	20.38	20.29
3	16QAM	8	7	20.35	20.40	20.37
3	16QAM	15	0	20.33	20.43	20.33
3	64QAM	1	0	21.46	21.48	21.38
3	64QAM	1	8	21.34	21.44	21.36
3	64QAM	1	14	21.39	21.40	21.36
3	64QAM	8	0	20.33	20.38	20.31
3	64QAM	8	4	20.31	20.35	20.25
3	64QAM	8	7	20.30	20.34	20.30
3	64QAM	15	0	20.29	20.31	20.24



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	22.96	23.01	22.98
1.4	QPSK	1	3	22.87	22.78	22.80
1.4	QPSK	1	5	22.54	22.53	22.55
1.4	QPSK	3	0	22.04	22.07	21.90
1.4	QPSK	3	1	21.95	22.00	21.82
1.4	QPSK	3	3	21.79	21.92	21.68
1.4	QPSK	6	0	21.70	21.79	21.75
1.4	16QAM	1	0	21.58	21.64	21.56
1.4	16QAM	1	3	21.53	21.61	21.56
1.4	16QAM	1	5	21.56	21.57	21.51
1.4	16QAM	3	0	20.37	20.44	20.37
1.4	16QAM	3	1	20.27	20.35	20.26
1.4	16QAM	3	3	20.32	20.37	20.34
1.4	16QAM	6	0	20.30	20.40	20.30
1.4	64QAM	1	0	21.43	21.45	21.35
1.4	64QAM	1	3	21.31	21.41	21.33
1.4	64QAM	1	5	21.36	21.37	21.33
1.4	64QAM	3	0	20.30	20.35	20.28
1.4	64QAM	3	1	20.28	20.32	20.22
1.4	64QAM	3	3	20.27	20.31	20.27
1.4	64QAM	6	0	20.26	20.28	20.21



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	20.25	20.26	20.21
20	QPSK	1	49	20.02	20.11	20.12
20	QPSK	1	99	19.79	19.80	19.88
20	QPSK	50	0	18.93	19.06	19.04
20	QPSK	50	24	19.01	19.02	18.93
20	QPSK	50	50	18.92	19.06	18.84
20	QPSK	100	0	18.99	19.03	18.91
20	16QAM	1	0	19.32	19.41	19.25
20	16QAM	1	49	19.26	19.32	19.31
20	16QAM	1	99	19.15	19.17	19.09
20	16QAM	50	0	18.17	18.25	18.20
20	16QAM	50	24	18.14	18.23	18.18
20	16QAM	50	50	18.01	18.08	18.00
20	16QAM	100	0	18.05	18.24	18.09
20	64QAM	1	0	18.54	18.66	18.55
20	64QAM	1	49	18.39	18.58	18.47
20	64QAM	1	99	18.49	18.50	18.35
20	64QAM	50	0	17.50	17.59	17.47
20	64QAM	50	24	17.47	17.57	17.40
20	64QAM	50	50	17.25	17.45	17.41
20	64QAM	100	0	17.33	17.52	17.35



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	20.17	20.18	20.13
15	QPSK	1	37	19.94	20.03	20.04
15	QPSK	1	74	19.71	19.72	19.80
15	QPSK	36	0	18.85	18.98	18.96
15	QPSK	36	20	18.93	18.94	18.85
15	QPSK	36	39	18.84	18.98	18.76
15	QPSK	75	0	18.91	18.95	18.83
15	16QAM	1	0	19.24	19.33	19.17
15	16QAM	1	37	19.18	19.24	19.23
15	16QAM	1	74	19.07	19.09	19.01
15	16QAM	36	0	18.09	18.17	18.12
15	16QAM	36	20	18.06	18.15	18.10
15	16QAM	36	39	17.93	18.00	17.92
15	16QAM	75	0	17.97	18.16	18.01
15	64QAM	1	0	18.46	18.58	18.47
15	64QAM	1	37	18.31	18.50	18.39
15	64QAM	1	74	18.41	18.42	18.27
15	64QAM	36	0	17.42	17.51	17.39
15	64QAM	36	20	17.39	17.49	17.32
15	64QAM	36	39	17.17	17.37	17.33
15	64QAM	75	0	17.75	17.94	17.77



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	20.10	20.11	20.06
10	QPSK	1	25	19.87	19.96	19.97
10	QPSK	1	49	19.64	19.65	19.73
10	QPSK	25	0	18.78	18.91	18.89
10	QPSK	25	12	18.86	18.87	18.78
10	QPSK	25	25	18.77	18.91	18.69
10	QPSK	50	0	18.84	18.88	18.76
10	16QAM	1	0	19.17	19.26	19.10
10	16QAM	1	25	19.11	19.17	19.16
10	16QAM	1	49	19.00	19.02	18.94
10	16QAM	25	0	18.02	18.10	18.05
10	16QAM	25	12	17.99	18.08	18.03
10	16QAM	25	25	17.86	17.93	17.85
10	16QAM	50	0	17.90	18.09	17.94
10	64QAM	1	0	18.39	18.51	18.40
10	64QAM	1	25	18.24	18.43	18.32
10	64QAM	1	49	18.34	18.35	18.20
10	64QAM	25	0	17.35	17.44	17.32
10	64QAM	25	12	17.32	17.42	17.25
10	64QAM	25	25	17.10	17.30	17.26
10	64QAM	50	0	17.68	17.87	17.70



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	20.04	20.05	20.00
5	QPSK	1	12	19.81	19.90	19.91
5	QPSK	1	24	19.58	19.59	19.67
5	QPSK	12	0	18.72	18.85	18.83
5	QPSK	12	7	18.80	18.81	18.72
5	QPSK	12	13	18.71	18.85	18.63
5	QPSK	25	0	18.78	18.82	18.70
5	16QAM	1	0	19.11	19.20	19.04
5	16QAM	1	12	19.05	19.11	19.10
5	16QAM	1	24	18.94	18.96	18.88
5	16QAM	12	0	17.96	18.04	17.99
5	16QAM	12	7	17.93	18.02	17.97
5	16QAM	12	13	17.80	17.87	17.79
5	16QAM	25	0	17.84	18.03	17.88
5	64QAM	1	0	18.33	18.45	18.34
5	64QAM	1	12	18.18	18.37	18.26
5	64QAM	1	24	18.28	18.29	18.14
5	64QAM	12	0	17.29	17.38	17.26
5	64QAM	12	7	17.26	17.36	17.19
5	64QAM	12	13	17.04	17.24	17.20
5	64QAM	25	0	17.62	17.81	17.64



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.14	23.16	23.09
10	QPSK	1	25	23.13	23.15	23.08
10	QPSK	1	49	23.05	23.12	23.09
10	QPSK	25	0	22.19	22.31	22.20
10	QPSK	25	12	22.23	22.17	22.15
10	QPSK	25	25	22.20	22.23	22.16
10	QPSK	50	0	22.23	22.24	22.13
10	16QAM	1	0	22.50	22.41	22.24
10	16QAM	1	25	22.38	22.47	22.42
10	16QAM	1	49	22.48	22.25	22.52
10	16QAM	25	0	21.19	21.14	21.18
10	16QAM	25	12	21.40	21.25	21.24
10	16QAM	25	25	21.27	21.30	21.32
10	16QAM	50	0	21.25	21.27	21.23
10	64QAM	1	0	21.35	21.49	21.44
10	64QAM	1	25	21.38	21.42	21.32
10	64QAM	1	49	21.48	21.36	21.18
10	64QAM	25	0	20.33	20.22	20.22
10	64QAM	25	12	20.16	20.17	20.24
10	64QAM	25	25	20.29	20.22	20.27
10	64QAM	50	0	20.21	20.24	20.23



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	23.06	23.08	23.01
5	QPSK	1	12	23.05	23.07	23.00
5	QPSK	1	24	22.97	23.04	23.01
5	QPSK	12	0	22.11	22.23	22.12
5	QPSK	12	7	22.15	22.09	22.07
5	QPSK	12	13	22.12	22.15	22.08
5	QPSK	25	0	22.15	22.16	22.05
5	16QAM	1	0	22.42	22.33	22.16
5	16QAM	1	12	22.30	22.39	22.34
5	16QAM	1	24	22.40	22.17	22.44
5	16QAM	12	0	21.11	21.06	21.10
5	16QAM	12	7	21.32	21.17	21.16
5	16QAM	12	13	21.19	21.22	21.24
5	16QAM	25	0	21.17	21.19	21.15
5	64QAM	1	0	21.27	21.41	21.36
5	64QAM	1	12	21.30	21.34	21.24
5	64QAM	1	24	21.40	21.28	21.10
5	64QAM	12	0	20.25	20.14	20.14
5	64QAM	12	7	20.08	20.09	20.16
5	64QAM	12	13	20.21	20.14	20.19
5	64QAM	25	0	20.13	20.16	20.15



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	22.99	23.01	22.94
3	QPSK	1	8	22.98	23.00	22.93
3	QPSK	1	14	22.90	22.97	22.94
3	QPSK	8	0	22.04	22.16	22.05
3	QPSK	8	4	22.08	22.02	22.00
3	QPSK	8	7	22.05	22.08	22.01
3	QPSK	15	0	22.08	22.09	21.98
3	16QAM	1	0	22.35	22.26	22.09
3	16QAM	1	8	22.23	22.32	22.27
3	16QAM	1	14	22.33	22.10	22.37
3	16QAM	8	0	21.04	20.99	21.03
3	16QAM	8	4	21.25	21.10	21.09
3	16QAM	8	7	21.12	21.15	21.17
3	16QAM	15	0	21.10	21.12	21.08
3	64QAM	1	0	21.20	21.34	21.29
3	64QAM	1	8	21.23	21.27	21.17
3	64QAM	1	14	21.33	21.21	21.03
3	64QAM	8	0	20.18	20.07	20.07
3	64QAM	8	4	20.01	20.02	20.09
3	64QAM	8	7	20.14	20.07	20.12
3	64QAM	15	0	20.06	20.09	20.08



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	22.92	22.94	22.87
1.4	QPSK	1	3	22.91	22.93	22.86
1.4	QPSK	1	5	22.83	22.90	22.87
1.4	QPSK	3	0	21.97	22.09	21.98
1.4	QPSK	3	1	22.01	21.95	21.93
1.4	QPSK	3	3	21.98	22.01	21.94
1.4	QPSK	6	0	22.01	22.02	21.91
1.4	16QAM	1	0	22.28	22.19	22.02
1.4	16QAM	1	3	22.16	22.25	22.20
1.4	16QAM	1	5	22.26	22.03	22.30
1.4	16QAM	3	0	20.97	20.92	20.96
1.4	16QAM	3	1	21.18	21.03	21.02
1.4	16QAM	3	3	21.05	21.08	21.10
1.4	16QAM	6	0	21.03	21.05	21.01
1.4	64QAM	1	0	21.13	21.27	21.22
1.4	64QAM	1	3	21.16	21.20	21.10
1.4	64QAM	1	5	21.26	21.14	20.96
1.4	64QAM	3	0	20.11	20.00	20.00
1.4	64QAM	3	1	19.94	19.95	20.02
1.4	64QAM	3	3	20.07	20.00	20.05
1.4	64QAM	6	0	19.99	20.02	20.01



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	23230	/
Frequency (MHz)				/	782	/
10	QPSK	1	0	/	23.37	/
10	QPSK	1	25	/	23.34	/
10	QPSK	1	49	/	23.24	/
10	QPSK	25	0	/	22.42	/
10	QPSK	25	12	/	22.34	/
10	QPSK	25	25	/	22.35	/
10	QPSK	50	0	/	22.36	/
10	16QAM	1	0	/	22.51	/
10	16QAM	1	25	/	22.48	/
10	16QAM	1	49	/	22.59	/
10	16QAM	25	0	/	21.45	/
10	16QAM	25	12	/	21.45	/
10	16QAM	25	25	/	21.37	/
10	16QAM	50	0	/	21.41	/
10	64QAM	1	0	/	21.53	/
10	64QAM	1	25	/	21.62	/
10	64QAM	1	49	/	21.56	/
10	64QAM	25	0	/	21.43	/
10	64QAM	25	12	/	21.40	/
10	64QAM	25	25	/	21.44	/
10	64QAM	50	0	/	21.35	/



LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	23.26	23.27	23.24
5	QPSK	1	12	23.21	23.17	23.23
5	QPSK	1	24	23.08	23.05	23.14
5	QPSK	12	0	22.31	22.27	22.28
5	QPSK	12	7	22.26	22.23	22.26
5	QPSK	12	13	22.25	22.23	22.17
5	QPSK	25	0	22.17	22.23	22.17
5	16QAM	1	0	22.40	22.41	22.40
5	16QAM	1	12	22.31	22.37	22.31
5	16QAM	1	24	22.44	22.41	22.42
5	16QAM	12	0	21.31	21.32	21.34
5	16QAM	12	7	21.27	21.28	21.30
5	16QAM	12	13	21.20	21.23	21.26
5	16QAM	25	0	21.29	21.22	21.29
5	64QAM	1	0	21.42	21.36	21.42
5	64QAM	1	12	21.44	21.49	21.51
5	64QAM	1	24	21.37	21.40	21.37
5	64QAM	12	0	21.33	21.33	21.24
5	64QAM	12	7	21.26	21.21	21.28
5	64QAM	12	13	21.33	21.31	21.28
5	64QAM	25	0	21.20	21.23	21.22



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.10	23.12	22.97
10	QPSK	1	25	23.09	23.11	23.07
10	QPSK	1	49	23.00	23.08	23.10
10	QPSK	25	0	22.20	22.21	22.19
10	QPSK	25	12	22.17	22.16	22.16
10	QPSK	25	25	22.18	22.12	22.13
10	QPSK	50	0	22.19	22.17	22.17
10	16QAM	1	0	22.31	22.47	22.14
10	16QAM	1	25	22.13	22.19	22.24
10	16QAM	1	49	22.27	22.33	22.35
10	16QAM	25	0	21.20	21.24	21.12
10	16QAM	25	12	21.26	21.28	21.27
10	16QAM	25	25	21.28	21.22	21.21
10	16QAM	50	0	21.13	21.17	21.18
10	64QAM	1	0	21.18	21.37	21.26
10	64QAM	1	25	21.41	21.45	21.32
10	64QAM	1	49	21.26	21.25	21.23
10	64QAM	25	0	20.34	20.46	20.35
10	64QAM	25	12	20.33	20.40	20.37
10	64QAM	25	25	20.41	20.44	20.40
10	64QAM	50	0	20.37	20.33	20.38



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	23.04	23.06	22.91
5	QPSK	1	12	23.03	23.05	23.01
5	QPSK	1	24	22.94	23.02	23.04
5	QPSK	12	0	22.14	22.15	22.13
5	QPSK	12	7	22.11	22.10	22.10
5	QPSK	12	13	22.12	22.06	22.07
5	QPSK	25	0	22.13	22.11	22.11
5	16QAM	1	0	22.25	22.41	22.08
5	16QAM	1	12	22.07	22.13	22.18
5	16QAM	1	24	22.21	22.27	22.29
5	16QAM	12	0	21.14	21.18	21.06
5	16QAM	12	7	21.20	21.22	21.21
5	16QAM	12	13	21.22	21.16	21.15
5	16QAM	25	0	21.07	21.11	21.12
5	64QAM	1	0	21.12	21.31	21.20
5	64QAM	1	12	21.35	21.39	21.26
5	64QAM	1	24	21.20	21.19	21.17
5	64QAM	12	0	20.28	20.40	20.29
5	64QAM	12	7	20.27	20.34	20.31
5	64QAM	12	13	20.35	20.38	20.34
5	64QAM	25	0	20.31	20.27	20.32



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	23.09	23.13	23.11
20	QPSK	1	49	22.96	23.09	22.93
20	QPSK	1	99	23.08	23.05	22.87
20	QPSK	50	0	22.08	22.15	22.10
20	QPSK	50	24	22.11	22.12	21.98
20	QPSK	50	50	22.08	22.01	21.94
20	QPSK	100	0	22.11	22.14	22.01
20	16QAM	1	0	22.21	22.22	22.10
20	16QAM	1	49	22.11	22.14	22.18
20	16QAM	1	99	22.03	22.07	22.04
20	16QAM	50	0	21.08	21.15	20.96
20	16QAM	50	24	21.16	21.11	21.13
20	16QAM	50	50	20.98	21.03	20.96
20	16QAM	100	0	21.07	21.08	21.02
20	64QAM	1	0	21.12	21.19	21.10
20	64QAM	1	49	20.94	21.02	21.05
20	64QAM	1	99	21.01	21.03	21.04
20	64QAM	50	0	21.00	21.05	21.00
20	64QAM	50	24	21.04	21.00	20.96
20	64QAM	50	50	20.91	20.98	20.85
20	64QAM	100	0	20.83	21.01	20.87



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	23.02	23.06	23.04
15	QPSK	1	37	22.89	23.02	22.86
15	QPSK	1	74	23.01	22.98	22.80
15	QPSK	36	0	22.01	22.08	22.03
15	QPSK	36	20	22.04	22.05	21.91
15	QPSK	36	39	22.01	21.94	21.87
15	QPSK	75	0	22.04	22.07	21.94
15	16QAM	1	0	22.14	22.15	22.03
15	16QAM	1	37	22.04	22.07	22.11
15	16QAM	1	74	21.96	22.00	21.97
15	16QAM	36	0	21.01	21.08	20.89
15	16QAM	36	20	21.09	21.04	21.06
15	16QAM	36	39	20.91	20.96	20.89
15	16QAM	75	0	21.00	21.01	20.95
15	64QAM	1	0	21.05	21.12	21.03
15	64QAM	1	37	20.87	20.95	20.98
15	64QAM	1	74	20.94	20.96	20.97
15	64QAM	36	0	20.93	20.98	20.93
15	64QAM	36	20	20.97	20.93	20.89
15	64QAM	36	39	20.84	20.91	20.78
15	64QAM	75	0	20.76	20.94	20.80



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	22.96	23.00	22.98
10	QPSK	1	25	22.83	22.96	22.80
10	QPSK	1	49	22.95	22.92	22.74
10	QPSK	25	0	21.95	22.02	21.97
10	QPSK	25	12	21.98	21.99	21.85
10	QPSK	25	25	21.95	21.88	21.81
10	QPSK	50	0	21.98	22.01	21.88
10	16QAM	1	0	22.08	22.09	21.97
10	16QAM	1	25	21.98	22.01	22.05
10	16QAM	1	49	21.90	21.94	21.91
10	16QAM	25	0	20.95	21.02	20.83
10	16QAM	25	12	21.03	20.98	21.00
10	16QAM	25	25	20.85	20.90	20.83
10	16QAM	50	0	20.94	20.95	20.89
10	64QAM	1	0	20.99	21.06	20.97
10	64QAM	1	25	20.81	20.89	20.92
10	64QAM	1	49	20.88	20.90	20.91
10	64QAM	25	0	20.87	20.92	20.87
10	64QAM	25	12	20.91	20.87	20.83
10	64QAM	25	25	20.78	20.85	20.72
10	64QAM	50	0	20.70	20.88	20.74



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	22.91	22.95	22.93
5	QPSK	1	12	22.78	22.91	22.75
5	QPSK	1	24	22.90	22.87	22.69
5	QPSK	12	0	21.90	21.97	21.92
5	QPSK	12	7	21.93	21.94	21.80
5	QPSK	12	13	21.90	21.83	21.76
5	QPSK	25	0	21.93	21.96	21.83
5	16QAM	1	0	22.03	22.04	21.92
5	16QAM	1	12	21.93	21.96	22.00
5	16QAM	1	24	21.85	21.89	21.86
5	16QAM	12	0	20.90	20.97	20.78
5	16QAM	12	7	20.98	20.93	20.95
5	16QAM	12	13	20.80	20.85	20.78
5	16QAM	25	0	20.89	20.90	20.84
5	64QAM	1	0	20.94	21.01	20.92
5	64QAM	1	12	20.76	20.84	20.87
5	64QAM	1	24	20.83	20.85	20.86
5	64QAM	12	0	20.82	20.87	20.82
5	64QAM	12	7	20.86	20.82	20.78
5	64QAM	12	13	20.73	20.80	20.67
5	64QAM	25	0	20.65	20.83	20.69



LTE Band 40, Block A						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	38750	/
Frequency (MHz)				/	2310	/
10	QPSK	1	0	/	22.68	/
10	QPSK	1	25	/	22.64	/
10	QPSK	1	49	/	22.59	/
10	QPSK	25	0	/	21.81	/
10	QPSK	25	12	/	21.69	/
10	QPSK	25	25	/	21.73	/
10	QPSK	50	0	/	21.75	/
10	16QAM	1	0	/	21.78	/
10	16QAM	1	25	/	21.74	/
10	16QAM	1	49	/	21.71	/
10	16QAM	25	0	/	20.83	/
10	16QAM	25	12	/	20.79	/
10	16QAM	25	25	/	20.70	/
10	16QAM	50	0	/	20.76	/
10	64QAM	1	0	/	20.77	/
10	64QAM	1	25	/	20.74	/
10	64QAM	1	49	/	20.68	/
10	64QAM	25	0	/	19.82	/
10	64QAM	25	12	/	19.73	/
10	64QAM	25	25	/	19.75	/
10	64QAM	50	0	/	19.66	/



LTE Band 40, Block A						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				38725	38750	38775
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	22.53	22.56	22.49
5	QPSK	1	12	22.48	22.54	22.45
5	QPSK	1	24	22.38	22.50	22.51
5	QPSK	12	0	21.67	21.78	21.68
5	QPSK	12	7	21.66	21.63	21.50
5	QPSK	12	13	21.50	21.74	21.52
5	QPSK	25	0	21.71	21.79	21.58
5	16QAM	1	0	21.73	21.71	21.61
5	16QAM	1	12	21.50	21.47	21.62
5	16QAM	1	24	21.55	21.56	21.40
5	16QAM	12	0	20.65	20.77	20.74
5	16QAM	12	7	20.48	20.58	20.51
5	16QAM	12	13	20.51	20.75	20.46
5	16QAM	25	0	20.64	20.68	20.65
5	64QAM	1	0	20.66	20.82	20.65
5	64QAM	1	12	20.76	20.59	20.59
5	64QAM	1	24	20.55	20.60	20.69
5	64QAM	12	0	19.56	19.73	19.78
5	64QAM	12	7	19.70	19.71	19.69
5	64QAM	12	13	19.68	19.72	19.76
5	64QAM	25	0	19.48	19.59	19.58



LTE Band 40, Block B						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	39200	/
Frequency (MHz)				/	2355	/
10	QPSK	1	0	/	22.47	/
10	QPSK	1	25	/	22.43	/
10	QPSK	1	49	/	22.34	/
10	QPSK	25	0	/	21.58	/
10	QPSK	25	12	/	21.44	/
10	QPSK	25	25	/	21.49	/
10	QPSK	50	0	/	21.41	/
10	16QAM	1	0	/	21.50	/
10	16QAM	1	25	/	21.49	/
10	16QAM	1	49	/	21.40	/
10	16QAM	25	0	/	20.46	/
10	16QAM	25	12	/	20.57	/
10	16QAM	25	25	/	20.43	/
10	16QAM	50	0	/	20.50	/
10	64QAM	1	0	/	20.52	/
10	64QAM	1	25	/	20.48	/
10	64QAM	1	49	/	20.41	/
10	64QAM	25	0	/	19.60	/
10	64QAM	25	12	/	19.56	/
10	64QAM	25	25	/	19.47	/
10	64QAM	50	0	/	19.52	/



LTE Band 40, Block B						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39175	39200	39225
Frequency (MHz)				2352.5	2355	2357.5
5	QPSK	1	0	22.37	22.40	22.35
5	QPSK	1	12	22.21	22.38	22.24
5	QPSK	1	24	22.29	22.27	22.11
5	QPSK	12	0	21.48	21.58	21.55
5	QPSK	12	7	21.32	21.58	21.35
5	QPSK	12	13	21.38	21.36	21.30
5	QPSK	25	0	21.32	21.46	21.33
5	16QAM	1	0	21.48	21.45	21.43
5	16QAM	1	12	21.33	21.46	21.44
5	16QAM	1	24	21.29	21.30	21.33
5	16QAM	12	0	20.44	20.49	20.48
5	16QAM	12	7	20.48	20.35	20.35
5	16QAM	12	13	20.42	20.33	20.50
5	16QAM	25	0	20.37	20.50	20.31
5	64QAM	1	0	20.46	20.60	20.38
5	64QAM	1	12	20.39	20.53	20.39
5	64QAM	1	24	20.38	20.43	20.36
5	64QAM	12	0	19.37	19.41	19.49
5	64QAM	12	7	19.33	19.51	19.45
5	64QAM	12	13	19.40	19.30	19.30
5	64QAM	25	0	19.23	19.36	19.35



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	23.30	23.31	23.26
20	QPSK	1	49	23.28	23.22	23.29
20	QPSK	1	99	23.27	23.29	22.96
20	QPSK	50	0	22.39	22.42	22.33
20	QPSK	50	24	22.35	22.39	22.25
20	QPSK	50	50	22.40	22.41	22.35
20	QPSK	100	0	22.37	22.31	22.28
20	16QAM	1	0	22.39	22.23	22.37
20	16QAM	1	49	22.23	22.26	22.24
20	16QAM	1	99	22.10	22.20	22.15
20	16QAM	50	0	21.36	21.37	21.30
20	16QAM	50	24	21.09	21.30	21.29
20	16QAM	50	50	21.35	21.38	21.36
20	16QAM	100	0	21.41	21.40	21.34
20	64QAM	1	0	21.26	21.38	21.39
20	64QAM	1	49	21.42	21.38	21.35
20	64QAM	1	99	21.25	21.23	21.11
20	64QAM	50	0	20.50	20.40	20.44
20	64QAM	50	24	20.41	20.43	20.32
20	64QAM	50	50	20.45	20.47	20.43
20	64QAM	100	0	20.41	20.51	20.36



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	23.24	23.25	23.20
15	QPSK	1	37	23.22	23.16	23.23
15	QPSK	1	74	23.21	23.23	22.90
15	QPSK	36	0	22.33	22.36	22.27
15	QPSK	36	20	22.29	22.33	22.19
15	QPSK	36	39	22.34	22.35	22.29
15	QPSK	75	0	22.31	22.25	22.22
15	16QAM	1	0	22.33	22.17	22.31
15	16QAM	1	37	22.17	22.20	22.18
15	16QAM	1	74	22.04	22.14	22.09
15	16QAM	36	0	21.30	21.31	21.24
15	16QAM	36	20	21.03	21.24	21.23
15	16QAM	36	39	21.29	21.32	21.30
15	16QAM	75	0	21.35	21.34	21.28
15	64QAM	1	0	21.20	21.32	21.33
15	64QAM	1	37	21.36	21.32	21.29
15	64QAM	1	74	21.19	21.17	21.05
15	64QAM	36	0	20.44	20.34	20.38
15	64QAM	36	20	20.35	20.37	20.26
15	64QAM	36	39	20.39	20.41	20.37
15	64QAM	75	0	20.35	20.45	20.30



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	23.17	23.18	23.13
10	QPSK	1	25	23.15	23.09	23.16
10	QPSK	1	49	23.14	23.16	22.83
10	QPSK	25	0	22.26	22.29	22.20
10	QPSK	25	12	22.22	22.26	22.12
10	QPSK	25	25	22.27	22.28	22.22
10	QPSK	50	0	22.24	22.18	22.15
10	16QAM	1	0	22.26	22.10	22.24
10	16QAM	1	25	22.10	22.13	22.11
10	16QAM	1	49	21.97	22.07	22.02
10	16QAM	25	0	21.23	21.24	21.17
10	16QAM	25	12	20.96	21.17	21.16
10	16QAM	25	25	21.22	21.25	21.23
10	16QAM	50	0	21.28	21.27	21.21
10	64QAM	1	0	21.13	21.25	21.26
10	64QAM	1	25	21.29	21.25	21.22
10	64QAM	1	49	21.12	21.10	20.98
10	64QAM	25	0	20.37	20.27	20.31
10	64QAM	25	12	20.28	20.30	20.19
10	64QAM	25	25	20.32	20.34	20.30
10	64QAM	50	0	20.28	20.38	20.23



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	23.09	23.10	23.05
5	QPSK	1	12	23.07	23.01	23.08
5	QPSK	1	24	23.06	23.08	22.75
5	QPSK	12	0	22.18	22.21	22.12
5	QPSK	12	7	22.14	22.18	22.04
5	QPSK	12	13	22.19	22.20	22.14
5	QPSK	25	0	22.16	22.10	22.07
5	16QAM	1	0	22.18	22.02	22.16
5	16QAM	1	12	22.02	22.05	22.03
5	16QAM	1	24	21.89	21.99	21.94
5	16QAM	12	0	21.15	21.16	21.09
5	16QAM	12	7	20.88	21.09	21.08
5	16QAM	12	13	21.14	21.17	21.15
5	16QAM	25	0	21.20	21.19	21.13
5	64QAM	1	0	21.05	21.17	21.18
5	64QAM	1	12	21.21	21.17	21.14
5	64QAM	1	24	21.04	21.02	20.90
5	64QAM	12	0	20.29	20.19	20.23
5	64QAM	12	7	20.20	20.22	20.11
5	64QAM	12	13	20.24	20.26	20.22
5	64QAM	25	0	20.20	20.30	20.15



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	23.02	23.03	22.98
3	QPSK	1	8	23.00	22.94	23.01
3	QPSK	1	14	22.99	23.01	22.68
3	QPSK	8	0	22.11	22.14	22.05
3	QPSK	8	4	22.07	22.11	21.97
3	QPSK	8	7	22.12	22.13	22.07
3	QPSK	15	0	22.09	22.03	22.00
3	16QAM	1	0	22.11	21.95	22.09
3	16QAM	1	8	21.95	21.98	21.96
3	16QAM	1	14	21.82	21.92	21.87
3	16QAM	8	0	21.08	21.09	21.02
3	16QAM	8	4	20.81	21.02	21.01
3	16QAM	8	7	21.07	21.10	21.08
3	16QAM	15	0	21.13	21.12	21.06
3	64QAM	1	0	20.98	21.10	21.11
3	64QAM	1	8	21.14	21.10	21.07
3	64QAM	1	14	20.97	20.95	20.83
3	64QAM	8	0	20.22	20.12	20.16
3	64QAM	8	4	20.13	20.15	20.04
3	64QAM	8	7	20.17	20.19	20.15
3	64QAM	15	0	20.13	20.23	20.08



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	23.00	23.01	22.96
1.4	QPSK	1	3	22.98	22.92	22.99
1.4	QPSK	1	5	22.97	22.99	22.66
1.4	QPSK	3	0	22.09	22.12	22.03
1.4	QPSK	3	1	22.05	22.09	21.95
1.4	QPSK	3	3	22.10	22.11	22.05
1.4	QPSK	6	0	22.07	22.01	21.98
1.4	16QAM	1	0	22.09	21.93	22.07
1.4	16QAM	1	3	21.93	21.96	21.94
1.4	16QAM	1	5	21.80	21.90	21.85
1.4	16QAM	3	0	21.06	21.07	21.00
1.4	16QAM	3	1	20.79	21.00	20.99
1.4	16QAM	3	3	21.05	21.08	21.06
1.4	16QAM	6	0	21.11	21.10	21.04
1.4	64QAM	1	0	20.96	21.08	21.09
1.4	64QAM	1	3	21.12	21.08	21.05
1.4	64QAM	1	5	20.95	20.93	20.81
1.4	64QAM	3	0	20.20	20.10	20.14
1.4	64QAM	3	1	20.11	20.13	20.02
1.4	64QAM	3	3	20.15	20.17	20.13
1.4	64QAM	6	0	20.11	20.21	20.06

**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	18.99	0.079	19.05	0.080	19.02	0.080
20	QPSK	1	49	18.66	0.073	18.84	0.077	18.73	0.075
20	QPSK	1	99	18.59	0.072	18.62	0.073	18.65	0.073
20	QPSK	50	0	17.73	0.059	17.92	0.062	17.84	0.061
20	QPSK	50	24	17.81	0.060	17.89	0.062	17.73	0.059
20	QPSK	50	50	17.72	0.059	17.86	0.061	17.64	0.058
20	QPSK	100	0	17.79	0.060	17.83	0.061	17.71	0.059
20	16QAM	1	0	18.21	0.066	18.30	0.068	18.14	0.065
20	16QAM	1	49	18.15	0.065	18.21	0.066	18.20	0.066
20	16QAM	1	99	18.04	0.064	18.06	0.064	17.98	0.063
20	16QAM	50	0	17.06	0.051	17.14	0.052	17.09	0.051
20	16QAM	50	24	17.03	0.050	17.12	0.052	17.07	0.051
20	16QAM	50	50	16.90	0.049	16.97	0.050	16.89	0.049
20	16QAM	100	0	16.94	0.049	17.13	0.052	16.98	0.050
20	64QAM	1	0	17.43	0.055	17.55	0.057	17.44	0.055
20	64QAM	1	49	17.28	0.053	17.47	0.056	17.36	0.054
20	64QAM	1	99	17.38	0.055	17.39	0.055	17.24	0.053
20	64QAM	50	0	16.39	0.044	16.48	0.044	16.36	0.043
20	64QAM	50	24	16.36	0.043	16.46	0.044	16.29	0.043
20	64QAM	50	50	16.14	0.041	16.34	0.043	16.30	0.043
20	64QAM	100	0	16.22	0.042	16.41	0.044	16.24	0.042



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	18.91	0.078	18.97	0.079	18.94	0.078
15	QPSK	1	37	18.58	0.072	18.76	0.075	18.65	0.073
15	QPSK	1	74	18.51	0.071	18.54	0.071	18.57	0.072
15	QPSK	36	0	17.65	0.058	17.84	0.061	17.76	0.060
15	QPSK	36	20	17.73	0.059	17.81	0.060	17.65	0.058
15	QPSK	36	39	17.64	0.058	17.78	0.060	17.56	0.057
15	QPSK	75	0	17.71	0.059	17.75	0.060	17.63	0.058
15	16QAM	1	0	18.13	0.065	18.22	0.066	18.06	0.064
15	16QAM	1	37	18.07	0.064	18.13	0.065	18.12	0.065
15	16QAM	1	74	17.96	0.063	17.98	0.063	17.90	0.062
15	16QAM	36	0	16.98	0.050	17.06	0.051	17.01	0.050
15	16QAM	36	20	16.95	0.050	17.04	0.051	16.99	0.050
15	16QAM	36	39	16.82	0.048	16.89	0.049	16.81	0.048
15	16QAM	75	0	16.86	0.049	17.05	0.051	16.90	0.049
15	64QAM	1	0	17.35	0.054	17.47	0.056	17.36	0.054
15	64QAM	1	37	17.20	0.052	17.39	0.055	17.28	0.053
15	64QAM	1	74	17.30	0.054	17.31	0.054	17.16	0.052
15	64QAM	36	0	16.31	0.043	16.40	0.044	16.28	0.042
15	64QAM	36	20	16.28	0.042	16.38	0.043	16.21	0.042
15	64QAM	36	39	16.06	0.040	16.26	0.042	16.22	0.042
15	64QAM	75	0	16.14	0.041	16.33	0.043	16.16	0.041



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	18.85	0.077	18.91	0.078	18.88	0.077
10	QPSK	1	25	18.52	0.071	18.70	0.074	18.59	0.072
10	QPSK	1	49	18.45	0.070	18.48	0.070	18.51	0.071
10	QPSK	25	0	17.59	0.057	17.78	0.060	17.70	0.059
10	QPSK	25	12	17.67	0.058	17.75	0.060	17.59	0.057
10	QPSK	25	25	17.58	0.057	17.72	0.059	17.50	0.056
10	QPSK	50	0	17.65	0.058	17.69	0.059	17.57	0.057
10	16QAM	1	0	18.07	0.064	18.16	0.065	18.00	0.063
10	16QAM	1	25	18.01	0.063	18.07	0.064	18.06	0.064
10	16QAM	1	49	17.90	0.062	17.92	0.062	17.84	0.061
10	16QAM	25	0	16.92	0.049	17.00	0.050	16.95	0.050
10	16QAM	25	12	16.89	0.049	16.98	0.050	16.93	0.049
10	16QAM	25	25	16.76	0.047	16.83	0.048	16.75	0.047
10	16QAM	50	0	16.80	0.048	16.99	0.050	16.84	0.048
10	64QAM	1	0	17.29	0.054	17.41	0.055	17.30	0.054
10	64QAM	1	25	17.14	0.052	17.33	0.054	17.22	0.053
10	64QAM	1	49	17.24	0.053	17.25	0.053	17.10	0.051
10	64QAM	25	0	16.25	0.042	16.34	0.043	16.22	0.042
10	64QAM	25	12	16.22	0.042	16.32	0.043	16.15	0.041
10	64QAM	25	25	16.00	0.040	16.20	0.042	16.16	0.041
10	64QAM	50	0	16.08	0.041	16.27	0.042	16.10	0.041



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	18.83	0.076	18.89	0.077	18.86	0.077
5	QPSK	1	12	18.50	0.071	18.68	0.074	18.57	0.072
5	QPSK	1	24	18.43	0.070	18.46	0.070	18.49	0.071
5	QPSK	12	0	17.57	0.057	17.76	0.060	17.68	0.059
5	QPSK	12	7	17.65	0.058	17.73	0.059	17.57	0.057
5	QPSK	12	13	17.56	0.057	17.70	0.059	17.48	0.056
5	QPSK	25	0	17.63	0.058	17.67	0.058	17.55	0.057
5	16QAM	1	0	18.05	0.064	18.14	0.065	17.98	0.063
5	16QAM	1	12	17.99	0.063	18.05	0.064	18.04	0.064
5	16QAM	1	24	17.88	0.061	17.90	0.062	17.82	0.061
5	16QAM	12	0	16.90	0.049	16.98	0.050	16.93	0.049
5	16QAM	12	7	16.87	0.049	16.96	0.050	16.91	0.049
5	16QAM	12	13	16.74	0.047	16.81	0.048	16.73	0.047
5	16QAM	25	0	16.78	0.048	16.97	0.050	16.82	0.048
5	64QAM	1	0	17.27	0.053	17.39	0.055	17.28	0.053
5	64QAM	1	12	17.12	0.052	17.31	0.054	17.20	0.052
5	64QAM	1	24	17.22	0.053	17.23	0.053	17.08	0.051
5	64QAM	12	0	16.23	0.042	16.32	0.043	16.20	0.042
5	64QAM	12	7	16.20	0.042	16.30	0.043	16.13	0.041
5	64QAM	12	13	15.98	0.040	16.18	0.041	16.14	0.041
5	64QAM	25	0	16.06	0.040	16.25	0.042	16.08	0.041



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	18.79	0.076	18.85	0.077	18.82	0.076
3	QPSK	1	8	18.46	0.070	18.64	0.073	18.53	0.071
3	QPSK	1	14	18.39	0.069	18.42	0.070	18.45	0.070
3	QPSK	8	0	17.53	0.057	17.72	0.059	17.64	0.058
3	QPSK	8	4	17.61	0.058	17.69	0.059	17.53	0.057
3	QPSK	8	7	17.52	0.056	17.66	0.058	17.44	0.055
3	QPSK	15	0	17.59	0.057	17.63	0.058	17.51	0.056
3	16QAM	1	0	18.01	0.063	18.10	0.065	17.94	0.062
3	16QAM	1	8	17.95	0.062	18.01	0.063	18.00	0.063
3	16QAM	1	14	17.84	0.061	17.86	0.061	17.78	0.060
3	16QAM	8	0	16.86	0.049	16.94	0.049	16.89	0.049
3	16QAM	8	4	16.83	0.048	16.92	0.049	16.87	0.049
3	16QAM	8	7	16.70	0.047	16.77	0.048	16.69	0.047
3	16QAM	15	0	16.74	0.047	16.93	0.049	16.78	0.048
3	64QAM	1	0	17.23	0.053	17.35	0.054	17.24	0.053
3	64QAM	1	8	17.08	0.051	17.27	0.053	17.16	0.052
3	64QAM	1	14	17.18	0.052	17.19	0.052	17.04	0.051
3	64QAM	8	0	16.19	0.042	16.28	0.042	16.16	0.041
3	64QAM	8	4	16.16	0.041	16.26	0.042	16.09	0.041
3	64QAM	8	7	15.94	0.039	16.14	0.041	16.10	0.041
3	64QAM	15	0	16.02	0.040	16.21	0.042	16.04	0.040



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	18.76	0.075	18.82	0.076	18.79	0.076
1.4	QPSK	1	3	18.43	0.070	18.61	0.073	18.50	0.071
1.4	QPSK	1	5	18.36	0.069	18.39	0.069	18.42	0.070
1.4	QPSK	3	0	17.50	0.056	17.69	0.059	17.61	0.058
1.4	QPSK	3	1	17.58	0.057	17.66	0.058	17.50	0.056
1.4	QPSK	3	3	17.49	0.056	17.63	0.058	17.41	0.055
1.4	QPSK	6	0	17.56	0.057	17.60	0.058	17.48	0.056
1.4	16QAM	1	0	17.98	0.063	18.07	0.064	17.91	0.062
1.4	16QAM	1	3	17.92	0.062	17.98	0.063	17.97	0.063
1.4	16QAM	1	5	17.81	0.060	17.83	0.061	17.75	0.060
1.4	16QAM	3	0	16.83	0.048	16.91	0.049	16.86	0.049
1.4	16QAM	3	1	16.80	0.048	16.89	0.049	16.84	0.048
1.4	16QAM	3	3	16.67	0.046	16.74	0.047	16.66	0.046
1.4	16QAM	6	0	16.71	0.047	16.90	0.049	16.75	0.047
1.4	64QAM	1	0	17.20	0.052	17.32	0.054	17.21	0.053
1.4	64QAM	1	3	17.05	0.051	17.24	0.053	17.13	0.052
1.4	64QAM	1	5	17.15	0.052	17.16	0.052	17.01	0.050
1.4	64QAM	3	0	16.16	0.041	16.25	0.042	16.13	0.041
1.4	64QAM	3	1	16.13	0.041	16.23	0.042	16.06	0.040
1.4	64QAM	3	3	15.91	0.039	16.11	0.041	16.07	0.040
1.4	64QAM	6	0	15.99	0.040	16.18	0.041	16.01	0.040



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	18.49	0.071	18.53	0.071	18.51	0.071
20	QPSK	1	49	18.32	0.068	18.40	0.069	18.33	0.068
20	QPSK	1	99	18.37	0.069	18.44	0.070	18.35	0.068
20	QPSK	50	0	17.40	0.055	17.42	0.055	17.39	0.055
20	QPSK	50	24	17.39	0.055	17.40	0.055	17.30	0.054
20	QPSK	50	50	17.30	0.054	17.35	0.054	17.25	0.053
20	QPSK	100	0	17.32	0.054	17.37	0.055	17.34	0.054
20	16QAM	1	0	17.89	0.062	17.95	0.062	17.93	0.062
20	16QAM	1	49	17.84	0.061	17.91	0.062	17.86	0.061
20	16QAM	1	99	17.85	0.061	17.88	0.061	17.86	0.061
20	16QAM	50	0	16.62	0.046	16.71	0.047	16.66	0.046
20	16QAM	50	24	16.66	0.046	16.75	0.047	16.65	0.046
20	16QAM	50	50	16.69	0.047	16.77	0.048	16.69	0.047
20	16QAM	100	0	16.71	0.047	16.74	0.047	16.77	0.048
20	64QAM	1	0	17.07	0.051	17.09	0.051	17.03	0.050
20	64QAM	1	49	17.01	0.050	17.03	0.050	16.97	0.050
20	64QAM	1	99	17.06	0.051	17.07	0.051	17.03	0.050
20	64QAM	50	0	15.75	0.038	15.83	0.038	15.81	0.038
20	64QAM	50	24	15.71	0.037	15.81	0.038	15.77	0.038
20	64QAM	50	50	15.83	0.038	15.87	0.039	15.77	0.038
20	64QAM	100	0	15.85	0.038	15.93	0.039	15.86	0.039



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	18.43	0.070	18.47	0.070	18.45	0.070
15	QPSK	1	37	18.26	0.067	18.34	0.068	18.27	0.067
15	QPSK	1	74	18.31	0.068	18.38	0.069	18.29	0.067
15	QPSK	36	0	17.34	0.054	17.36	0.054	17.33	0.054
15	QPSK	36	20	17.33	0.054	17.34	0.054	17.24	0.053
15	QPSK	36	39	17.24	0.053	17.29	0.054	17.19	0.052
15	QPSK	75	0	17.26	0.053	17.31	0.054	17.28	0.053
15	16QAM	1	0	17.83	0.061	17.89	0.062	17.87	0.061
15	16QAM	1	37	17.78	0.060	17.85	0.061	17.80	0.060
15	16QAM	1	74	17.79	0.060	17.82	0.061	17.80	0.060
15	16QAM	36	0	16.56	0.045	16.65	0.046	16.60	0.046
15	16QAM	36	20	16.60	0.046	16.69	0.047	16.59	0.046
15	16QAM	36	39	16.63	0.046	16.71	0.047	16.63	0.046
15	16QAM	75	0	16.65	0.046	16.68	0.047	16.71	0.047
15	64QAM	1	0	17.01	0.050	17.03	0.050	16.97	0.050
15	64QAM	1	37	16.95	0.050	16.97	0.050	16.91	0.049
15	64QAM	1	74	17.00	0.050	17.01	0.050	16.97	0.050
15	64QAM	36	0	15.69	0.037	15.77	0.038	15.75	0.038
15	64QAM	36	20	15.65	0.037	15.75	0.038	15.71	0.037
15	64QAM	36	39	15.77	0.038	15.81	0.038	15.71	0.037
15	64QAM	75	0	15.79	0.038	15.87	0.039	15.80	0.038



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	18.36	0.069	18.40	0.069	18.38	0.069
10	QPSK	1	25	18.19	0.066	18.27	0.067	18.20	0.066
10	QPSK	1	49	18.24	0.067	18.31	0.068	18.22	0.066
10	QPSK	25	0	17.27	0.053	17.29	0.054	17.26	0.053
10	QPSK	25	12	17.26	0.053	17.27	0.053	17.17	0.052
10	QPSK	25	25	17.17	0.052	17.22	0.053	17.12	0.052
10	QPSK	50	0	17.19	0.052	17.24	0.053	17.21	0.053
10	16QAM	1	0	17.76	0.060	17.82	0.061	17.80	0.060
10	16QAM	1	25	17.71	0.059	17.78	0.060	17.73	0.059
10	16QAM	1	49	17.72	0.059	17.75	0.060	17.73	0.059
10	16QAM	25	0	16.49	0.045	16.58	0.045	16.53	0.045
10	16QAM	25	12	16.53	0.045	16.62	0.046	16.52	0.045
10	16QAM	25	25	16.56	0.045	16.64	0.046	16.56	0.045
10	16QAM	50	0	16.58	0.045	16.61	0.046	16.64	0.046
10	64QAM	1	0	16.94	0.049	16.96	0.050	16.90	0.049
10	64QAM	1	25	16.88	0.049	16.90	0.049	16.84	0.048
10	64QAM	1	49	16.93	0.049	16.94	0.049	16.90	0.049
10	64QAM	25	0	15.62	0.036	15.70	0.037	15.68	0.037
10	64QAM	25	12	15.58	0.036	15.68	0.037	15.64	0.037
10	64QAM	25	25	15.70	0.037	15.74	0.037	15.64	0.037
10	64QAM	50	0	15.72	0.037	15.80	0.038	15.73	0.037



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.30	0.068	18.34	0.068	18.32	0.068
5	QPSK	1	12	18.13	0.065	18.21	0.066	18.14	0.065
5	QPSK	1	24	18.18	0.066	18.25	0.067	18.16	0.065
5	QPSK	12	0	17.21	0.053	17.23	0.053	17.20	0.052
5	QPSK	12	7	17.20	0.052	17.21	0.053	17.11	0.051
5	QPSK	12	13	17.11	0.051	17.16	0.052	17.06	0.051
5	QPSK	25	0	17.13	0.052	17.18	0.052	17.15	0.052
5	16QAM	1	0	17.70	0.059	17.76	0.060	17.74	0.059
5	16QAM	1	12	17.65	0.058	17.72	0.059	17.67	0.058
5	16QAM	1	24	17.66	0.058	17.69	0.059	17.67	0.058
5	16QAM	12	0	16.43	0.044	16.52	0.045	16.47	0.044
5	16QAM	12	7	16.47	0.044	16.56	0.045	16.46	0.044
5	16QAM	12	13	16.50	0.045	16.58	0.045	16.50	0.045
5	16QAM	25	0	16.52	0.045	16.55	0.045	16.58	0.045
5	64QAM	1	0	16.88	0.049	16.90	0.049	16.84	0.048
5	64QAM	1	12	16.82	0.048	16.84	0.048	16.78	0.048
5	64QAM	1	24	16.87	0.049	16.88	0.049	16.84	0.048
5	64QAM	12	0	15.56	0.036	15.64	0.037	15.62	0.036
5	64QAM	12	7	15.52	0.036	15.62	0.036	15.58	0.036
5	64QAM	12	13	15.64	0.037	15.68	0.037	15.58	0.036
5	64QAM	25	0	15.66	0.037	15.74	0.037	15.67	0.037



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.24	0.067	18.28	0.067	18.26	0.067
3	QPSK	1	8	18.07	0.064	18.15	0.065	18.08	0.064
3	QPSK	1	14	18.12	0.065	18.19	0.066	18.10	0.065
3	QPSK	8	0	17.15	0.052	17.17	0.052	17.14	0.052
3	QPSK	8	4	17.14	0.052	17.15	0.052	17.05	0.051
3	QPSK	8	7	17.05	0.051	17.10	0.051	17.00	0.050
3	QPSK	15	0	17.07	0.051	17.12	0.052	17.09	0.051
3	16QAM	1	0	17.64	0.058	17.70	0.059	17.68	0.059
3	16QAM	1	8	17.59	0.057	17.66	0.058	17.61	0.058
3	16QAM	1	14	17.60	0.058	17.63	0.058	17.61	0.058
3	16QAM	8	0	16.37	0.043	16.46	0.044	16.41	0.044
3	16QAM	8	4	16.41	0.044	16.50	0.045	16.40	0.044
3	16QAM	8	7	16.44	0.044	16.52	0.045	16.44	0.044
3	16QAM	15	0	16.46	0.044	16.49	0.045	16.52	0.045
3	64QAM	1	0	16.82	0.048	16.84	0.048	16.78	0.048
3	64QAM	1	8	16.76	0.047	16.78	0.048	16.72	0.047
3	64QAM	1	14	16.81	0.048	16.82	0.048	16.78	0.048
3	64QAM	8	0	15.50	0.035	15.58	0.036	15.56	0.036
3	64QAM	8	4	15.46	0.035	15.56	0.036	15.52	0.036
3	64QAM	8	7	15.58	0.036	15.62	0.036	15.52	0.036
3	64QAM	15	0	15.60	0.036	15.68	0.037	15.61	0.036



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.19	0.066	18.23	0.067	18.21	0.066
1.4	QPSK	1	3	18.02	0.063	18.10	0.065	18.03	0.064
1.4	QPSK	1	5	18.07	0.064	18.14	0.065	18.05	0.064
1.4	QPSK	3	0	17.10	0.051	17.12	0.052	17.09	0.051
1.4	QPSK	3	1	17.09	0.051	17.10	0.051	17.00	0.050
1.4	QPSK	3	3	17.00	0.050	17.05	0.051	16.95	0.050
1.4	QPSK	6	0	17.02	0.050	17.07	0.051	17.04	0.051
1.4	16QAM	1	0	17.59	0.057	17.65	0.058	17.63	0.058
1.4	16QAM	1	3	17.54	0.057	17.61	0.058	17.56	0.057
1.4	16QAM	1	5	17.55	0.057	17.58	0.057	17.56	0.057
1.4	16QAM	3	0	16.32	0.043	16.41	0.044	16.36	0.043
1.4	16QAM	3	1	16.36	0.043	16.45	0.044	16.35	0.043
1.4	16QAM	3	3	16.39	0.044	16.47	0.044	16.39	0.044
1.4	16QAM	6	0	16.41	0.044	16.44	0.044	16.47	0.044
1.4	64QAM	1	0	16.77	0.048	16.79	0.048	16.73	0.047
1.4	64QAM	1	3	16.71	0.047	16.73	0.047	16.67	0.046
1.4	64QAM	1	5	16.76	0.047	16.77	0.048	16.73	0.047
1.4	64QAM	3	0	15.45	0.035	15.53	0.036	15.51	0.036
1.4	64QAM	3	1	15.41	0.035	15.51	0.036	15.47	0.035
1.4	64QAM	3	3	15.53	0.036	15.57	0.036	15.47	0.035
1.4	64QAM	6	0	15.55	0.036	15.63	0.037	15.56	0.036



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20450		20525		20600	
Frequency (MHz)				829		836.5		844	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	14.64	0.029	14.69	0.029	14.66	0.029
10	QPSK	1	25	14.55	0.029	14.46	0.028	14.48	0.028
10	QPSK	1	49	14.22	0.026	14.21	0.026	14.23	0.026
10	QPSK	25	0	13.72	0.024	13.75	0.024	13.58	0.023
10	QPSK	25	12	13.63	0.023	13.68	0.023	13.50	0.022
10	QPSK	25	25	13.47	0.022	13.60	0.023	13.36	0.022
10	QPSK	50	0	13.38	0.022	13.47	0.022	13.43	0.022
10	16QAM	1	0	13.26	0.021	13.32	0.021	13.24	0.021
10	16QAM	1	25	13.21	0.021	13.29	0.021	13.24	0.021
10	16QAM	1	49	13.24	0.021	13.25	0.021	13.19	0.021
10	16QAM	25	0	12.05	0.016	12.12	0.016	12.05	0.016
10	16QAM	25	12	11.95	0.016	12.03	0.016	11.94	0.016
10	16QAM	25	25	12.00	0.016	12.05	0.016	12.02	0.016
10	16QAM	50	0	11.98	0.016	12.08	0.016	11.98	0.016
10	64QAM	1	0	13.11	0.020	13.13	0.021	13.03	0.020
10	64QAM	1	25	12.99	0.020	13.09	0.020	13.01	0.020
10	64QAM	1	49	13.04	0.020	13.05	0.020	13.01	0.020
10	64QAM	25	0	11.98	0.016	12.03	0.016	11.96	0.016
10	64QAM	25	12	11.96	0.016	12.00	0.016	11.90	0.015
10	64QAM	25	25	11.95	0.016	11.99	0.016	11.95	0.016
10	64QAM	50	0	11.94	0.016	11.96	0.016	11.89	0.015



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20425		20525		20625	
Frequency (MHz)				826.5		836.5		846.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	14.59	0.029	14.64	0.029	14.61	0.029
5	QPSK	1	12	14.50	0.028	14.41	0.028	14.43	0.028
5	QPSK	1	24	14.17	0.026	14.16	0.026	14.18	0.026
5	QPSK	12	0	13.67	0.023	13.70	0.023	13.53	0.023
5	QPSK	12	7	13.58	0.023	13.63	0.023	13.45	0.022
5	QPSK	12	13	13.42	0.022	13.55	0.023	13.31	0.021
5	QPSK	25	0	13.33	0.022	13.42	0.022	13.38	0.022
5	16QAM	1	0	13.21	0.021	13.27	0.021	13.19	0.021
5	16QAM	1	12	13.16	0.021	13.24	0.021	13.19	0.021
5	16QAM	1	24	13.19	0.021	13.20	0.021	13.14	0.021
5	16QAM	12	0	12.00	0.016	12.07	0.016	12.00	0.016
5	16QAM	12	7	11.90	0.015	11.98	0.016	11.89	0.015
5	16QAM	12	13	11.95	0.016	12.00	0.016	11.97	0.016
5	16QAM	25	0	11.93	0.016	12.03	0.016	11.93	0.016
5	64QAM	1	0	13.06	0.020	13.08	0.020	12.98	0.020
5	64QAM	1	12	12.94	0.020	13.04	0.020	12.96	0.020
5	64QAM	1	24	12.99	0.020	13.00	0.020	12.96	0.020
5	64QAM	12	0	11.93	0.016	11.98	0.016	11.91	0.016
5	64QAM	12	7	11.91	0.016	11.95	0.016	11.85	0.015
5	64QAM	12	13	11.90	0.015	11.94	0.016	11.90	0.015
5	64QAM	25	0	11.89	0.015	11.91	0.016	11.84	0.015



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20415		20525		20635	
Frequency (MHz)				825.5		836.5		847.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	14.54	0.028	14.59	0.029	14.56	0.029
3	QPSK	1	8	14.45	0.028	14.36	0.027	14.38	0.027
3	QPSK	1	14	14.12	0.026	14.11	0.026	14.13	0.026
3	QPSK	8	0	13.62	0.023	13.65	0.023	13.48	0.022
3	QPSK	8	4	13.53	0.023	13.58	0.023	13.40	0.022
3	QPSK	8	7	13.37	0.022	13.50	0.022	13.26	0.021
3	QPSK	15	0	13.28	0.021	13.37	0.022	13.33	0.022
3	16QAM	1	0	13.16	0.021	13.22	0.021	13.14	0.021
3	16QAM	1	8	13.11	0.020	13.19	0.021	13.14	0.021
3	16QAM	1	14	13.14	0.021	13.15	0.021	13.09	0.020
3	16QAM	8	0	11.95	0.016	12.02	0.016	11.95	0.016
3	16QAM	8	4	11.85	0.015	11.93	0.016	11.84	0.015
3	16QAM	8	7	11.90	0.015	11.95	0.016	11.92	0.016
3	16QAM	15	0	11.88	0.015	11.98	0.016	11.88	0.015
3	64QAM	1	0	13.01	0.020	13.03	0.020	12.93	0.020
3	64QAM	1	8	12.89	0.019	12.99	0.020	12.91	0.020
3	64QAM	1	14	12.94	0.020	12.95	0.020	12.91	0.020
3	64QAM	8	0	11.88	0.015	11.93	0.016	11.86	0.015
3	64QAM	8	4	11.86	0.015	11.90	0.015	11.80	0.015
3	64QAM	8	7	11.85	0.015	11.89	0.015	11.85	0.015
3	64QAM	15	0	11.84	0.015	11.86	0.015	11.79	0.015



LTE Band 5				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20407		20525		20643	
Frequency (MHz)				824.7		836.5		848.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	14.51	0.028	14.56	0.029	14.53	0.028
1.4	QPSK	1	3	14.42	0.028	14.33	0.027	14.35	0.027
1.4	QPSK	1	5	14.09	0.026	14.08	0.026	14.10	0.026
1.4	QPSK	3	0	13.59	0.023	13.62	0.023	13.45	0.022
1.4	QPSK	3	1	13.50	0.022	13.55	0.023	13.37	0.022
1.4	QPSK	3	3	13.34	0.022	13.47	0.022	13.23	0.021
1.4	QPSK	6	0	13.25	0.021	13.34	0.022	13.30	0.021
1.4	16QAM	1	0	13.13	0.021	13.19	0.021	13.11	0.020
1.4	16QAM	1	3	13.08	0.020	13.16	0.021	13.11	0.020
1.4	16QAM	1	5	13.11	0.020	13.12	0.021	13.06	0.020
1.4	16QAM	3	0	11.92	0.016	11.99	0.016	11.92	0.016
1.4	16QAM	3	1	11.82	0.015	11.90	0.015	11.81	0.015
1.4	16QAM	3	3	11.87	0.015	11.92	0.016	11.89	0.015
1.4	16QAM	6	0	11.85	0.015	11.95	0.016	11.85	0.015
1.4	64QAM	1	0	12.98	0.020	13.00	0.020	12.90	0.019
1.4	64QAM	1	3	12.86	0.019	12.96	0.020	12.88	0.019
1.4	64QAM	1	5	12.91	0.020	12.92	0.020	12.88	0.019
1.4	64QAM	3	0	11.85	0.015	11.90	0.015	11.83	0.015
1.4	64QAM	3	1	11.83	0.015	11.87	0.015	11.77	0.015
1.4	64QAM	3	3	11.82	0.015	11.86	0.015	11.82	0.015
1.4	64QAM	6	0	11.81	0.015	11.83	0.015	11.76	0.015



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20850		21100		21350	
Frequency (MHz)				2510		2535		2560	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	17.05	0.051	17.06	0.051	17.01	0.050
20	QPSK	1	49	16.82	0.048	16.91	0.049	16.92	0.049
20	QPSK	1	99	16.59	0.046	16.60	0.046	16.68	0.047
20	QPSK	50	0	15.73	0.037	15.86	0.039	15.84	0.038
20	QPSK	50	24	15.81	0.038	15.82	0.038	15.73	0.037
20	QPSK	50	50	15.72	0.037	15.86	0.039	15.64	0.037
20	QPSK	100	0	15.79	0.038	15.83	0.038	15.71	0.037
20	16QAM	1	0	16.12	0.041	16.21	0.042	16.05	0.040
20	16QAM	1	49	16.06	0.040	16.12	0.041	16.11	0.041
20	16QAM	1	99	15.95	0.039	15.97	0.040	15.89	0.039
20	16QAM	50	0	14.97	0.031	15.05	0.032	15.00	0.032
20	16QAM	50	24	14.94	0.031	15.03	0.032	14.98	0.031
20	16QAM	50	50	14.81	0.030	14.88	0.031	14.80	0.030
20	16QAM	100	0	14.85	0.031	15.04	0.032	14.89	0.031
20	64QAM	1	0	15.34	0.034	15.46	0.035	15.35	0.034
20	64QAM	1	49	15.19	0.033	15.38	0.035	15.27	0.034
20	64QAM	1	99	15.29	0.034	15.30	0.034	15.15	0.033
20	64QAM	50	0	14.30	0.027	14.39	0.027	14.27	0.027
20	64QAM	50	24	14.27	0.027	14.37	0.027	14.20	0.026
20	64QAM	50	50	14.05	0.025	14.25	0.027	14.21	0.026
20	64QAM	100	0	14.13	0.026	14.32	0.027	14.15	0.026



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	16.97	0.050	16.98	0.050	16.93	0.049
15	QPSK	1	37	16.74	0.047	16.83	0.048	16.84	0.048
15	QPSK	1	74	16.51	0.045	16.52	0.045	16.60	0.046
15	QPSK	36	0	15.65	0.037	15.78	0.038	15.76	0.038
15	QPSK	36	20	15.73	0.037	15.74	0.037	15.65	0.037
15	QPSK	36	39	15.64	0.037	15.78	0.038	15.56	0.036
15	QPSK	75	0	15.71	0.037	15.75	0.038	15.63	0.037
15	16QAM	1	0	16.04	0.040	16.13	0.041	15.97	0.040
15	16QAM	1	37	15.98	0.040	16.04	0.040	16.03	0.040
15	16QAM	1	74	15.87	0.039	15.89	0.039	15.81	0.038
15	16QAM	36	0	14.89	0.031	14.97	0.031	14.92	0.031
15	16QAM	36	20	14.86	0.031	14.95	0.031	14.90	0.031
15	16QAM	36	39	14.73	0.030	14.80	0.030	14.72	0.030
15	16QAM	75	0	14.77	0.030	14.96	0.031	14.81	0.030
15	64QAM	1	0	15.26	0.034	15.38	0.035	15.27	0.034
15	64QAM	1	37	15.11	0.032	15.30	0.034	15.19	0.033
15	64QAM	1	74	15.21	0.033	15.22	0.033	15.07	0.032
15	64QAM	36	0	14.22	0.026	14.31	0.027	14.19	0.026
15	64QAM	36	20	14.19	0.026	14.29	0.027	14.12	0.026
15	64QAM	36	39	13.97	0.025	14.17	0.026	14.13	0.026
15	64QAM	75	0	14.55	0.029	14.74	0.030	14.57	0.029



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	16.90	0.049	16.91	0.049	16.86	0.049
10	QPSK	1	25	16.67	0.046	16.76	0.047	16.77	0.048
10	QPSK	1	49	16.44	0.044	16.45	0.044	16.53	0.045
10	QPSK	25	0	15.58	0.036	15.71	0.037	15.69	0.037
10	QPSK	25	12	15.66	0.037	15.67	0.037	15.58	0.036
10	QPSK	25	25	15.57	0.036	15.71	0.037	15.49	0.035
10	QPSK	50	0	15.64	0.037	15.68	0.037	15.56	0.036
10	16QAM	1	0	15.97	0.040	16.06	0.040	15.90	0.039
10	16QAM	1	25	15.91	0.039	15.97	0.040	15.96	0.039
10	16QAM	1	49	15.80	0.038	15.82	0.038	15.74	0.037
10	16QAM	25	0	14.82	0.030	14.90	0.031	14.85	0.031
10	16QAM	25	12	14.79	0.030	14.88	0.031	14.83	0.030
10	16QAM	25	25	14.66	0.029	14.73	0.030	14.65	0.029
10	16QAM	50	0	14.70	0.030	14.89	0.031	14.74	0.030
10	64QAM	1	0	15.19	0.033	15.31	0.034	15.20	0.033
10	64QAM	1	25	15.04	0.032	15.23	0.033	15.12	0.033
10	64QAM	1	49	15.14	0.033	15.15	0.033	15.00	0.032
10	64QAM	25	0	14.15	0.026	14.24	0.027	14.12	0.026
10	64QAM	25	12	14.12	0.026	14.22	0.026	14.05	0.025
10	64QAM	25	25	13.90	0.025	14.10	0.026	14.06	0.025
10	64QAM	50	0	14.48	0.028	14.67	0.029	14.50	0.028



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0		0.048	16.85	0.048	16.80	0.048
5	QPSK	1	12	16.61	0.046	16.70	0.047	16.71	0.047
5	QPSK	1	24	16.38	0.043	16.39	0.044	16.47	0.044
5	QPSK	12	0	15.52	0.036	15.65	0.037	15.63	0.037
5	QPSK	12	7	15.60	0.036	15.61	0.036	15.52	0.036
5	QPSK	12	13	15.51	0.036	15.65	0.037	15.43	0.035
5	QPSK	25	0	15.58	0.036	15.62	0.036	15.50	0.035
5	16QAM	1	0	15.91	0.039	16.00	0.040	15.84	0.038
5	16QAM	1	12	15.85	0.038	15.91	0.039	15.90	0.039
5	16QAM	1	24	15.74	0.037	15.76	0.038	15.68	0.037
5	16QAM	12	0	14.76	0.030	14.84	0.030	14.79	0.030
5	16QAM	12	7	14.73	0.030	14.82	0.030	14.77	0.030
5	16QAM	12	13	14.60	0.029	14.67	0.029	14.59	0.029
5	16QAM	25	0	14.64	0.029	14.83	0.030	14.68	0.029
5	64QAM	1	0	15.13	0.033	15.25	0.033	15.14	0.033
5	64QAM	1	12	14.98	0.031	15.17	0.033	15.06	0.032
5	64QAM	1	24	15.08	0.032	15.09	0.032	14.94	0.031
5	64QAM	12	0	14.09	0.026	14.18	0.026	14.06	0.025
5	64QAM	12	7	14.06	0.025	14.16	0.026	13.99	0.025
5	64QAM	12	13	13.84	0.024	14.04	0.025	14.00	0.025
5	64QAM	25	0	14.42	0.028	14.61	0.029	14.44	0.028



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	14.49	0.028	14.51	0.028	14.44	0.028
10	QPSK	1	25	14.48	0.028	14.50	0.028	14.43	0.028
10	QPSK	1	49	14.40	0.028	14.47	0.028	14.44	0.028
10	QPSK	25	0	13.54	0.023	13.66	0.023	13.55	0.023
10	QPSK	25	12	13.58	0.023	13.52	0.022	13.50	0.022
10	QPSK	25	25	13.55	0.023	13.58	0.023	13.51	0.022
10	QPSK	50	0	13.58	0.023	13.59	0.023	13.48	0.022
10	16QAM	1	0	13.85	0.024	13.76	0.024	13.59	0.023
10	16QAM	1	25	13.73	0.024	13.82	0.024	13.77	0.024
10	16QAM	1	49	13.83	0.024	13.60	0.023	13.87	0.024
10	16QAM	25	0	12.54	0.018	12.49	0.018	12.53	0.018
10	16QAM	25	12	12.75	0.019	12.60	0.018	12.59	0.018
10	16QAM	25	25	12.62	0.018	12.65	0.018	12.67	0.018
10	16QAM	50	0	12.60	0.018	12.62	0.018	12.58	0.018
10	64QAM	1	0	12.70	0.019	12.84	0.019	12.79	0.019
10	64QAM	1	25	12.73	0.019	12.77	0.019	12.67	0.018
10	64QAM	1	49	12.83	0.019	12.71	0.019	12.53	0.018
10	64QAM	25	0	11.68	0.015	11.57	0.014	11.57	0.014
10	64QAM	25	12	11.51	0.014	11.52	0.014	11.59	0.014
10	64QAM	25	25	11.64	0.015	11.57	0.014	11.62	0.015
10	64QAM	50	0	11.56	0.014	11.59	0.014	11.58	0.014



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	14.41	0.028	14.43	0.028	14.36	0.027
5	QPSK	1	12	14.40	0.028	14.42	0.028	14.35	0.027
5	QPSK	1	24	14.32	0.027	14.39	0.027	14.36	0.027
5	QPSK	12	0	13.46	0.022	13.58	0.023	13.47	0.022
5	QPSK	12	7	13.50	0.022	13.44	0.022	13.42	0.022
5	QPSK	12	13	13.47	0.022	13.50	0.022	13.43	0.022
5	QPSK	25	0	13.50	0.022	13.51	0.022	13.40	0.022
5	16QAM	1	0	13.77	0.024	13.68	0.023	13.51	0.022
5	16QAM	1	12	13.65	0.023	13.74	0.024	13.69	0.023
5	16QAM	1	24	13.75	0.024	13.52	0.022	13.79	0.024
5	16QAM	12	0	12.46	0.018	12.41	0.017	12.45	0.018
5	16QAM	12	7	12.67	0.018	12.52	0.018	12.51	0.018
5	16QAM	12	13	12.54	0.018	12.57	0.018	12.59	0.018
5	16QAM	25	0	12.52	0.018	12.54	0.018	12.50	0.018
5	64QAM	1	0	12.62	0.018	12.76	0.019	12.71	0.019
5	64QAM	1	12	12.65	0.018	12.69	0.019	12.59	0.018
5	64QAM	1	24	12.75	0.019	12.63	0.018	12.45	0.018
5	64QAM	12	0	11.60	0.014	11.49	0.014	11.49	0.014
5	64QAM	12	7	11.43	0.014	11.44	0.014	11.51	0.014
5	64QAM	12	13	11.56	0.014	11.49	0.014	11.54	0.014
5	64QAM	25	0	11.48	0.014	11.51	0.014	11.50	0.014



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	14.34	0.027	14.36	0.027	14.29	0.027
3	QPSK	1	8	14.33	0.027	14.35	0.027	14.28	0.027
3	QPSK	1	14	14.25	0.027	14.32	0.027	14.29	0.027
3	QPSK	8	0	13.39	0.022	13.51	0.022	13.40	0.022
3	QPSK	8	4	13.43	0.022	13.37	0.022	13.35	0.022
3	QPSK	8	7	13.40	0.022	13.43	0.022	13.36	0.022
3	QPSK	15	0	13.43	0.022	13.44	0.022	13.33	0.022
3	16QAM	1	0	13.70	0.023	13.61	0.023	13.44	0.022
3	16QAM	1	8	13.58	0.023	13.67	0.023	13.62	0.023
3	16QAM	1	14	13.68	0.023	13.45	0.022	13.72	0.024
3	16QAM	8	0	12.39	0.017	12.34	0.017	12.38	0.017
3	16QAM	8	4	12.60	0.018	12.45	0.018	12.44	0.018
3	16QAM	8	7	12.47	0.018	12.50	0.018	12.52	0.018
3	16QAM	15	0	12.45	0.018	12.47	0.018	12.43	0.017
3	64QAM	1	0	12.55	0.018	12.69	0.019	12.64	0.018
3	64QAM	1	8	12.58	0.018	12.62	0.018	12.52	0.018
3	64QAM	1	14	12.68	0.019	12.56	0.018	12.38	0.017
3	64QAM	8	0	11.53	0.014	11.42	0.014	11.42	0.014
3	64QAM	8	4	11.36	0.014	11.37	0.014	11.44	0.014
3	64QAM	8	7	11.49	0.014	11.42	0.014	11.47	0.014
3	64QAM	15	0	11.41	0.014	11.44	0.014	11.43	0.014



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	14.27	0.027	14.29	0.027	14.22	0.026
1.4	QPSK	1	3	14.26	0.027	14.28	0.027	14.21	0.026
1.4	QPSK	1	5	14.18	0.026	14.25	0.027	14.22	0.026
1.4	QPSK	3	0	13.32	0.021	13.44	0.022	13.33	0.022
1.4	QPSK	3	1	13.36	0.022	13.30	0.021	13.28	0.021
1.4	QPSK	3	3	13.33	0.022	13.36	0.022	13.29	0.021
1.4	QPSK	6	0	13.36	0.022	13.37	0.022	13.26	0.021
1.4	16QAM	1	0	13.63	0.023	13.54	0.023	13.37	0.022
1.4	16QAM	1	3	13.51	0.022	13.60	0.023	13.55	0.023
1.4	16QAM	1	5	13.61	0.023	13.38	0.022	13.65	0.023
1.4	16QAM	3	0	12.32	0.017	12.27	0.017	12.31	0.017
1.4	16QAM	3	1	12.53	0.018	12.38	0.017	12.37	0.017
1.4	16QAM	3	3	12.40	0.017	12.43	0.017	12.45	0.018
1.4	16QAM	6	0	12.38	0.017	12.40	0.017	12.36	0.017
1.4	64QAM	1	0	12.48	0.018	12.62	0.018	12.57	0.018
1.4	64QAM	1	3	12.51	0.018	12.55	0.018	12.45	0.018
1.4	64QAM	1	5	12.61	0.018	12.49	0.018	12.31	0.017
1.4	64QAM	3	0	11.46	0.014	11.35	0.014	11.35	0.014
1.4	64QAM	3	1	11.29	0.013	11.30	0.013	11.37	0.014
1.4	64QAM	3	3	11.42	0.014	11.35	0.014	11.40	0.014
1.4	64QAM	6	0	11.34	0.014	11.37	0.014	11.36	0.014



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		23230		/	
Frequency (MHz)				/		782		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	15.12	0.033	/	/
10	QPSK	1	25	/	/	15.09	0.032	/	/
10	QPSK	1	49	/	/	14.99	0.032	/	/
10	QPSK	25	0	/	/	14.17	0.026	/	/
10	QPSK	25	12	/	/	14.09	0.026	/	/
10	QPSK	25	25	/	/	14.10	0.026	/	/
10	QPSK	50	0	/	/	14.11	0.026	/	/
10	16QAM	1	0	/	/	14.26	0.027	/	/
10	16QAM	1	25	/	/	14.23	0.026	/	/
10	16QAM	1	49	/	/	14.34	0.027	/	/
10	16QAM	25	0	/	/	13.20	0.021	/	/
10	16QAM	25	12	/	/	13.20	0.021	/	/
10	16QAM	25	25	/	/	13.12	0.021	/	/
10	16QAM	50	0	/	/	13.16	0.021	/	/
10	64QAM	1	0	/	/	13.28	0.021	/	/
10	64QAM	1	25	/	/	13.37	0.022	/	/
10	64QAM	1	49	/	/	13.31	0.021	/	/
10	64QAM	25	0	/	/	13.18	0.021	/	/
10	64QAM	25	12	/	/	13.15	0.021	/	/
10	64QAM	25	25	/	/	13.19	0.021	/	/
10	64QAM	50	0	/	/	13.10	0.020	/	/



LTE Band 13				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23205		23230		23255	
Frequency (MHz)				779.5		782		784.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	15.01	0.032	15.02	0.032	14.99	0.032
5	QPSK	1	12	14.96	0.031	14.92	0.031	14.98	0.031
5	QPSK	1	24	14.83	0.030	14.80	0.030	14.89	0.031
5	QPSK	12	0	14.06	0.025	14.02	0.025	14.03	0.025
5	QPSK	12	7	14.01	0.025	13.98	0.025	14.01	0.025
5	QPSK	12	13	14.00	0.025	13.98	0.025	13.92	0.025
5	QPSK	25	0	13.92	0.025	13.98	0.025	13.92	0.025
5	16QAM	1	0	14.15	0.026	14.16	0.026	14.15	0.026
5	16QAM	1	12	14.06	0.025	14.12	0.026	14.06	0.025
5	16QAM	1	24	14.19	0.026	14.16	0.026	14.17	0.026
5	16QAM	12	0	13.06	0.020	13.07	0.020	13.09	0.020
5	16QAM	12	7	13.02	0.020	13.03	0.020	13.05	0.020
5	16QAM	12	13	12.95	0.020	12.98	0.020	13.01	0.020
5	16QAM	25	0	13.04	0.020	12.97	0.020	13.04	0.020
5	64QAM	1	0	13.17	0.021	13.11	0.020	13.17	0.021
5	64QAM	1	12	13.19	0.021	13.24	0.021	13.26	0.021
5	64QAM	1	24	13.12	0.021	13.15	0.021	13.12	0.021
5	64QAM	12	0	13.08	0.020	13.08	0.020	12.99	0.020
5	64QAM	12	7	13.01	0.020	12.96	0.020	13.03	0.020
5	64QAM	12	13	13.08	0.020	13.06	0.020	13.03	0.020
5	64QAM	25	0	12.95	0.020	12.98	0.020	12.97	0.020



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	14.45	0.028	14.47	0.028	14.32	0.027
10	QPSK	1	25	14.44	0.028	14.46	0.028	14.42	0.028
10	QPSK	1	49	14.35	0.027	14.43	0.028	14.45	0.028
10	QPSK	25	0	13.55	0.023	13.56	0.023	13.54	0.023
10	QPSK	25	12	13.52	0.022	13.51	0.022	13.51	0.022
10	QPSK	25	25	13.53	0.023	13.47	0.022	13.48	0.022
10	QPSK	50	0	13.54	0.023	13.52	0.022	13.52	0.022
10	16QAM	1	0	13.66	0.023	13.82	0.024	13.49	0.022
10	16QAM	1	25	13.48	0.022	13.54	0.023	13.59	0.023
10	16QAM	1	49	13.62	0.023	13.68	0.023	13.70	0.023
10	16QAM	25	0	12.55	0.018	12.59	0.018	12.47	0.018
10	16QAM	25	12	12.61	0.018	12.63	0.018	12.62	0.018
10	16QAM	25	25	12.63	0.018	12.57	0.018	12.56	0.018
10	16QAM	50	0	12.48	0.018	12.52	0.018	12.53	0.018
10	64QAM	1	0	12.53	0.018	12.72	0.019	12.61	0.018
10	64QAM	1	25	12.76	0.019	12.80	0.019	12.67	0.018
10	64QAM	1	49	12.61	0.018	12.60	0.018	12.58	0.018
10	64QAM	25	0	11.69	0.015	11.81	0.015	11.70	0.015
10	64QAM	25	12	11.68	0.015	11.75	0.015	11.72	0.015
10	64QAM	25	25	11.76	0.015	11.79	0.015	11.75	0.015
10	64QAM	50	0	11.72	0.015	11.68	0.015	11.73	0.015



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23755		23790		23825	
Frequency (MHz)				706.5		710		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	14.39	0.027	14.41	0.028	14.26	0.027
5	QPSK	1	12	14.38	0.027	14.40	0.028	14.36	0.027
5	QPSK	1	24	14.29	0.027	14.37	0.027	14.39	0.027
5	QPSK	12	0	13.49	0.022	13.50	0.022	13.48	0.022
5	QPSK	12	7	13.46	0.022	13.45	0.022	13.45	0.022
5	QPSK	12	13	13.47	0.022	13.41	0.022	13.42	0.022
5	QPSK	25	0	13.48	0.022	13.46	0.022	13.46	0.022
5	16QAM	1	0	13.60	0.023	13.76	0.024	13.43	0.022
5	16QAM	1	12	13.42	0.022	13.48	0.022	13.53	0.023
5	16QAM	1	24	13.56	0.023	13.62	0.023	13.64	0.023
5	16QAM	12	0	12.49	0.018	12.53	0.018	12.41	0.017
5	16QAM	12	7	12.55	0.018	12.57	0.018	12.56	0.018
5	16QAM	12	13	12.57	0.018	12.51	0.018	12.50	0.018
5	16QAM	25	0	12.42	0.017	12.46	0.018	12.47	0.018
5	64QAM	1	0	12.47	0.018	12.66	0.018	12.55	0.018
5	64QAM	1	12	12.70	0.019	12.74	0.019	12.61	0.018
5	64QAM	1	24	12.55	0.018	12.54	0.018	12.52	0.018
5	64QAM	12	0	11.63	0.015	11.75	0.015	11.64	0.015
5	64QAM	12	7	11.62	0.015	11.69	0.015	11.66	0.015
5	64QAM	12	13	11.70	0.015	11.73	0.015	11.69	0.015
5	64QAM	25	0	11.66	0.015	11.62	0.015	11.67	0.015



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37850		38000		38150	
Frequency (MHz)				2580		2595		2610	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	19.89	0.097	19.93	0.098	19.91	0.098
20	QPSK	1	49	19.76	0.095	19.89	0.097	19.73	0.094
20	QPSK	1	99	19.88	0.097	19.85	0.097	19.67	0.093
20	QPSK	50	0	18.88	0.077	18.95	0.079	18.90	0.078
20	QPSK	50	24	18.91	0.078	18.92	0.078	18.78	0.076
20	QPSK	50	50	18.88	0.077	18.81	0.076	18.74	0.075
20	QPSK	100	0	18.91	0.078	18.94	0.078	18.81	0.076
20	16QAM	1	0	19.01	0.080	19.02	0.080	18.90	0.078
20	16QAM	1	49	18.91	0.078	18.94	0.078	18.98	0.079
20	16QAM	1	99	18.83	0.076	18.87	0.077	18.84	0.077
20	16QAM	50	0	17.88	0.061	17.95	0.062	17.76	0.060
20	16QAM	50	24	17.96	0.063	17.91	0.062	17.93	0.062
20	16QAM	50	50	17.78	0.060	17.83	0.061	17.76	0.060
20	16QAM	100	0	17.87	0.061	17.88	0.061	17.82	0.061
20	64QAM	1	0	17.92	0.062	17.99	0.063	17.90	0.062
20	64QAM	1	49	17.74	0.059	17.82	0.061	17.85	0.061
20	64QAM	1	99	17.81	0.060	17.83	0.061	17.84	0.061
20	64QAM	50	0	17.80	0.060	17.85	0.061	17.80	0.060
20	64QAM	50	24	17.84	0.061	17.80	0.060	17.76	0.060
20	64QAM	50	50	17.71	0.059	17.78	0.060	17.65	0.058
20	64QAM	100	0	17.63	0.058	17.81	0.060	17.67	0.058



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37825		38000		38175	
Frequency (MHz)				2577.5		2595		2612.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	19.82	0.096	19.86	0.097	19.84	0.096
15	QPSK	1	37	19.69	0.093	19.82	0.096	19.66	0.092
15	QPSK	1	74	19.81	0.096	19.78	0.095	19.60	0.091
15	QPSK	36	0	18.81	0.076	18.88	0.077	18.83	0.076
15	QPSK	36	20	18.84	0.077	18.85	0.077	18.71	0.074
15	QPSK	36	39	18.81	0.076	18.74	0.075	18.67	0.074
15	QPSK	75	0	18.84	0.077	18.87	0.077	18.74	0.075
15	16QAM	1	0	18.94	0.078	18.95	0.079	18.83	0.076
15	16QAM	1	37	18.84	0.077	18.87	0.077	18.91	0.078
15	16QAM	1	74	18.76	0.075	18.80	0.076	18.77	0.075
15	16QAM	36	0	17.81	0.060	17.88	0.061	17.69	0.059
15	16QAM	36	20	17.89	0.062	17.84	0.061	17.86	0.061
15	16QAM	36	39	17.71	0.059	17.76	0.060	17.69	0.059
15	16QAM	75	0	17.80	0.060	17.81	0.060	17.75	0.060
15	64QAM	1	0	17.85	0.061	17.92	0.062	17.83	0.061
15	64QAM	1	37	17.67	0.058	17.75	0.060	17.78	0.060
15	64QAM	1	74	17.74	0.059	17.76	0.060	17.77	0.060
15	64QAM	36	0	17.73	0.059	17.78	0.060	17.73	0.059
15	64QAM	36	20	17.77	0.060	17.73	0.059	17.69	0.059
15	64QAM	36	39	17.64	0.058	17.71	0.059	17.58	0.057
15	64QAM	75	0	17.56	0.057	17.74	0.059	17.60	0.058



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37800		38000		38200	
Frequency (MHz)				2575		2595		2615	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	19.76	0.095	19.80	0.095	19.78	0.095
10	QPSK	1	25	19.63	0.092	19.76	0.095	19.60	0.091
10	QPSK	1	49	19.75	0.094	19.72	0.094	19.54	0.090
10	QPSK	25	0	18.75	0.075	18.82	0.076	18.77	0.075
10	QPSK	25	12	18.78	0.076	18.79	0.076	18.65	0.073
10	QPSK	25	25	18.75	0.075	18.68	0.074	18.61	0.073
10	QPSK	50	0	18.78	0.076	18.81	0.076	18.68	0.074
10	16QAM	1	0	18.88	0.077	18.89	0.077	18.77	0.075
10	16QAM	1	25	18.78	0.076	18.81	0.076	18.85	0.077
10	16QAM	1	49	18.70	0.074	18.74	0.075	18.71	0.074
10	16QAM	25	0	17.75	0.060	17.82	0.061	17.63	0.058
10	16QAM	25	12	17.83	0.061	17.78	0.060	17.80	0.060
10	16QAM	25	25	17.65	0.058	17.70	0.059	17.63	0.058
10	16QAM	50	0	17.74	0.059	17.75	0.060	17.69	0.059
10	64QAM	1	0	17.79	0.060	17.86	0.061	17.77	0.060
10	64QAM	1	25	17.61	0.058	17.69	0.059	17.72	0.059
10	64QAM	1	49	17.68	0.059	17.70	0.059	17.71	0.059
10	64QAM	25	0	17.67	0.058	17.72	0.059	17.67	0.058
10	64QAM	25	12	17.71	0.059	17.67	0.058	17.63	0.058
10	64QAM	25	25	17.58	0.057	17.65	0.058	17.52	0.056
10	64QAM	50	0	17.50	0.056	17.68	0.059	17.54	0.057



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.71	0.094	19.75	0.094	19.73	0.094
5	QPSK	1	12	19.58	0.091	19.71	0.094	19.55	0.090
5	QPSK	1	24	19.70	0.093	19.67	0.093	19.49	0.089
5	QPSK	12	0	18.70	0.074	18.77	0.075	18.72	0.074
5	QPSK	12	7	18.73	0.075	18.74	0.075	18.60	0.072
5	QPSK	12	13	18.70	0.074	18.63	0.073	18.56	0.072
5	QPSK	25	0	18.73	0.075	18.76	0.075	18.63	0.073
5	16QAM	1	0	18.83	0.076	18.84	0.077	18.72	0.074
5	16QAM	1	12	18.73	0.075	18.76	0.075	18.80	0.076
5	16QAM	1	24	18.65	0.073	18.69	0.074	18.66	0.073
5	16QAM	12	0	17.70	0.059	17.77	0.060	17.58	0.057
5	16QAM	12	7	17.78	0.060	17.73	0.059	17.75	0.060
5	16QAM	12	13	17.60	0.058	17.65	0.058	17.58	0.057
5	16QAM	25	0	17.69	0.059	17.70	0.059	17.64	0.058
5	64QAM	1	0	17.74	0.059	17.81	0.060	17.72	0.059
5	64QAM	1	12	17.56	0.057	17.64	0.058	17.67	0.058
5	64QAM	1	24	17.63	0.058	17.65	0.058	17.66	0.058
5	64QAM	12	0	17.62	0.058	17.67	0.058	17.62	0.058
5	64QAM	12	7	17.66	0.058	17.62	0.058	17.58	0.057
5	64QAM	12	13	17.53	0.057	17.60	0.058	17.47	0.056
5	64QAM	25	0	17.45	0.056	17.63	0.058	17.49	0.056



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		38750		/	
Frequency (MHz)				/		2310		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	19.48	0.089	/	/
10	QPSK	1	25	/	/	19.44	0.088	/	/
10	QPSK	1	49	/	/	19.39	0.087	/	/
10	QPSK	25	0	/	/	18.61	0.073	/	/
10	QPSK	25	12	/	/	18.49	0.071	/	/
10	QPSK	25	25	/	/	18.53	0.071	/	/
10	QPSK	50	0	/	/	18.55	0.072	/	/
10	16QAM	1	0	/	/	18.58	0.072	/	/
10	16QAM	1	25	/	/	18.54	0.071	/	/
10	16QAM	1	49	/	/	18.51	0.071	/	/
10	16QAM	25	0	/	/	17.63	0.058	/	/
10	16QAM	25	12	/	/	17.59	0.057	/	/
10	16QAM	25	25	/	/	17.50	0.056	/	/
10	16QAM	50	0	/	/	17.56	0.057	/	/
10	64QAM	1	0	/	/	17.57	0.057	/	/
10	64QAM	1	25	/	/	17.54	0.057	/	/
10	64QAM	1	49	/	/	17.48	0.056	/	/
10	64QAM	25	0	/	/	16.62	0.046	/	/
10	64QAM	25	12	/	/	16.53	0.045	/	/
10	64QAM	25	25	/	/	16.55	0.045	/	/
10	64QAM	50	0	/	/	16.46	0.044	/	/



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				38725		38750		38775	
Frequency (MHz)				2307.5		2310		2312.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.33	0.086	19.36	0.086	19.29	0.085
5	QPSK	1	12	19.28	0.085	19.34	0.086	19.25	0.084
5	QPSK	1	24	19.18	0.083	19.30	0.085	19.31	0.085
5	QPSK	12	0	18.47	0.070	18.58	0.072	18.48	0.070
5	QPSK	12	7	18.46	0.070	18.43	0.070	18.30	0.068
5	QPSK	12	13	18.30	0.068	18.54	0.071	18.32	0.068
5	QPSK	25	0	18.51	0.071	18.59	0.072	18.38	0.069
5	16QAM	1	0	18.53	0.071	18.51	0.071	18.41	0.069
5	16QAM	1	12	18.30	0.068	18.27	0.067	18.42	0.070
5	16QAM	1	24	18.35	0.068	18.36	0.069	18.20	0.066
5	16QAM	12	0	17.45	0.056	17.57	0.057	17.54	0.057
5	16QAM	12	7	17.28	0.053	17.38	0.055	17.31	0.054
5	16QAM	12	13	17.31	0.054	17.55	0.057	17.26	0.053
5	16QAM	25	0	17.44	0.055	17.48	0.056	17.45	0.056
5	64QAM	1	0	17.46	0.056	17.62	0.058	17.45	0.056
5	64QAM	1	12	17.56	0.057	17.39	0.055	17.39	0.055
5	64QAM	1	24	17.35	0.054	17.40	0.055	17.49	0.056
5	64QAM	12	0	16.36	0.043	16.53	0.045	16.58	0.045
5	64QAM	12	7	16.50	0.045	16.51	0.045	16.49	0.045
5	64QAM	12	13	16.48	0.044	16.52	0.045	16.56	0.045
5	64QAM	25	0	16.28	0.042	16.39	0.044	16.38	0.043



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		39200		/	
Frequency (MHz)				/		2355		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	19.27	0.085	/	/
10	QPSK	1	25	/	/	19.23	0.084	/	/
10	QPSK	1	49	/	/	19.14	0.082	/	/
10	QPSK	25	0	/	/	18.38	0.069	/	/
10	QPSK	25	12	/	/	18.24	0.067	/	/
10	QPSK	25	25	/	/	18.29	0.067	/	/
10	QPSK	50	0	/	/	18.21	0.066	/	/
10	16QAM	1	0	/	/	18.30	0.068	/	/
10	16QAM	1	25	/	/	18.29	0.067	/	/
10	16QAM	1	49	/	/	18.20	0.066	/	/
10	16QAM	25	0	/	/	17.26	0.053	/	/
10	16QAM	25	12	/	/	17.37	0.055	/	/
10	16QAM	25	25	/	/	17.23	0.053	/	/
10	16QAM	50	0	/	/	17.30	0.054	/	/
10	64QAM	1	0	/	/	17.32	0.054	/	/
10	64QAM	1	25	/	/	17.28	0.053	/	/
10	64QAM	1	49	/	/	17.21	0.053	/	/
10	64QAM	25	0	/	/	16.40	0.044	/	/
10	64QAM	25	12	/	/	16.36	0.043	/	/
10	64QAM	25	25	/	/	16.27	0.042	/	/
10	64QAM	50	0	/	/	16.32	0.043	/	/



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39175		39200		39225	
Frequency (MHz)				2352.5		2355		2357.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.17	0.083	19.20	0.083	19.15	0.082
5	QPSK	1	12	19.01	0.080	19.18	0.083	19.04	0.080
5	QPSK	1	24	19.09	0.081	19.07	0.081	18.91	0.078
5	QPSK	12	0	18.28	0.067	18.38	0.069	18.35	0.068
5	QPSK	12	7	18.12	0.065	18.38	0.069	18.15	0.065
5	QPSK	12	13	18.18	0.066	18.16	0.065	18.10	0.065
5	QPSK	25	0	18.12	0.065	18.26	0.067	18.13	0.065
5	16QAM	1	0	18.28	0.067	18.25	0.067	18.23	0.067
5	16QAM	1	12	18.13	0.065	18.26	0.067	18.24	0.067
5	16QAM	1	24	18.09	0.064	18.10	0.065	18.13	0.065
5	16QAM	12	0	17.24	0.053	17.29	0.054	17.28	0.053
5	16QAM	12	7	17.28	0.053	17.15	0.052	17.15	0.052
5	16QAM	12	13	17.22	0.053	17.13	0.052	17.30	0.054
5	16QAM	25	0	17.17	0.052	17.30	0.054	17.11	0.051
5	64QAM	1	0	17.26	0.053	17.40	0.055	17.18	0.052
5	64QAM	1	12	17.19	0.052	17.33	0.054	17.19	0.052
5	64QAM	1	24	17.18	0.052	17.23	0.053	17.16	0.052
5	64QAM	12	0	16.17	0.041	16.21	0.042	16.29	0.043
5	64QAM	12	7	16.13	0.041	16.31	0.043	16.25	0.042
5	64QAM	12	13	16.20	0.042	16.10	0.041	16.10	0.041
5	64QAM	25	0	16.03	0.040	16.16	0.041	16.15	0.041



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132072		132322		132572	
Frequency (MHz)				1720		1745		1770	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	19.20	0.083	19.21	0.083	19.16	0.082
20	QPSK	1	49	19.18	0.083	19.12	0.082	19.19	0.083
20	QPSK	1	99	19.17	0.083	19.19	0.083	18.86	0.077
20	QPSK	50	0	18.29	0.067	18.32	0.068	18.23	0.067
20	QPSK	50	24	18.25	0.067	18.29	0.067	18.15	0.065
20	QPSK	50	50	18.30	0.068	18.31	0.068	18.25	0.067
20	QPSK	100	0	18.27	0.067	18.21	0.066	18.18	0.066
20	16QAM	1	0	18.29	0.067	18.13	0.065	18.27	0.067
20	16QAM	1	49	18.13	0.065	18.16	0.065	18.14	0.065
20	16QAM	1	99	18.00	0.063	18.10	0.065	18.05	0.064
20	16QAM	50	0	17.26	0.053	17.27	0.053	17.20	0.052
20	16QAM	50	24	16.99	0.050	17.20	0.052	17.19	0.052
20	16QAM	50	50	17.25	0.053	17.28	0.053	17.26	0.053
20	16QAM	100	0	17.31	0.054	17.30	0.054	17.24	0.053
20	64QAM	1	0	17.16	0.052	17.28	0.053	17.29	0.054
20	64QAM	1	49	17.32	0.054	17.28	0.053	17.25	0.053
20	64QAM	1	99	17.15	0.052	17.13	0.052	17.01	0.050
20	64QAM	50	0	16.40	0.044	16.30	0.043	16.34	0.043
20	64QAM	50	24	16.31	0.043	16.33	0.043	16.22	0.042
20	64QAM	50	50	16.35	0.043	16.37	0.043	16.33	0.043
20	64QAM	100	0	16.31	0.043	16.41	0.044	16.26	0.042



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132047		132322		132597	
Frequency (MHz)				1717.5		1745		1772.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	19.14	0.082	19.15	0.082	19.10	0.081
15	QPSK	1	37	19.12	0.082	19.06	0.081	19.13	0.082
15	QPSK	1	74	19.11	0.081	19.13	0.082	18.80	0.076
15	QPSK	36	0	18.23	0.067	18.26	0.067	18.17	0.066
15	QPSK	36	20	18.19	0.066	18.23	0.067	18.09	0.064
15	QPSK	36	39	18.24	0.067	18.25	0.067	18.19	0.066
15	QPSK	75	0	18.21	0.066	18.15	0.065	18.12	0.065
15	16QAM	1	0	18.23	0.067	18.07	0.064	18.21	0.066
15	16QAM	1	37	18.07	0.064	18.10	0.065	18.08	0.064
15	16QAM	1	74	17.94	0.062	18.04	0.064	17.99	0.063
15	16QAM	36	0	17.20	0.052	17.21	0.053	17.14	0.052
15	16QAM	36	20	16.93	0.049	17.14	0.052	17.13	0.052
15	16QAM	36	39	17.19	0.052	17.22	0.053	17.20	0.052
15	16QAM	75	0	17.25	0.053	17.24	0.053	17.18	0.052
15	64QAM	1	0	17.10	0.051	17.22	0.053	17.23	0.053
15	64QAM	1	37	17.26	0.053	17.22	0.053	17.19	0.052
15	64QAM	1	74	17.09	0.051	17.07	0.051	16.95	0.050
15	64QAM	36	0	16.34	0.043	16.24	0.042	16.28	0.042
15	64QAM	36	20	16.25	0.042	16.27	0.042	16.16	0.041
15	64QAM	36	39	16.29	0.043	16.31	0.043	16.27	0.042
15	64QAM	75	0	16.25	0.042	16.35	0.043	16.20	0.042



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				132022		132322		132622	
Frequency (MHz)				1715		1745		1775	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	19.07	0.081	19.08	0.081	19.03	0.080
10	QPSK	1	25	19.05	0.080	18.99	0.079	19.06	0.081
10	QPSK	1	49	19.04	0.080	19.06	0.081	18.73	0.075
10	QPSK	25	0	18.16	0.065	18.19	0.066	18.10	0.065
10	QPSK	25	12	18.12	0.065	18.16	0.065	18.02	0.063
10	QPSK	25	25	18.17	0.066	18.18	0.066	18.12	0.065
10	QPSK	50	0	18.14	0.065	18.08	0.064	18.05	0.064
10	16QAM	1	0	18.16	0.065	18.00	0.063	18.14	0.065
10	16QAM	1	25	18.00	0.063	18.03	0.064	18.01	0.063
10	16QAM	1	49	17.87	0.061	17.97	0.063	17.92	0.062
10	16QAM	25	0	17.13	0.052	17.14	0.052	17.07	0.051
10	16QAM	25	12	16.86	0.049	17.07	0.051	17.06	0.051
10	16QAM	25	25	17.12	0.052	17.15	0.052	17.13	0.052
10	16QAM	50	0	17.18	0.052	17.17	0.052	17.11	0.051
10	64QAM	1	0	17.03	0.050	17.15	0.052	17.16	0.052
10	64QAM	1	25	17.19	0.052	17.15	0.052	17.12	0.052
10	64QAM	1	49	17.02	0.050	17.00	0.050	16.88	0.049
10	64QAM	25	0	16.27	0.042	16.17	0.041	16.21	0.042
10	64QAM	25	12	16.18	0.041	16.20	0.042	16.09	0.041
10	64QAM	25	25	16.22	0.042	16.24	0.042	16.20	0.042
10	64QAM	50	0	16.18	0.041	16.28	0.042	16.13	0.041



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131997		132322		132647	
Frequency (MHz)				1712.5		1745		1777.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.99	0.079	19.00	0.079	18.95	0.079
5	QPSK	1	12	18.97	0.079	18.91	0.078	18.98	0.079
5	QPSK	1	24	18.96	0.079	18.98	0.079	18.65	0.073
5	QPSK	12	0	18.08	0.064	18.11	0.065	18.02	0.063
5	QPSK	12	7	18.04	0.064	18.08	0.064	17.94	0.062
5	QPSK	12	13	18.09	0.064	18.10	0.065	18.04	0.064
5	QPSK	25	0	18.06	0.064	18.00	0.063	17.97	0.063
5	16QAM	1	0	18.08	0.064	17.92	0.062	18.06	0.064
5	16QAM	1	12	17.92	0.062	17.95	0.062	17.93	0.062
5	16QAM	1	24	17.79	0.060	17.89	0.062	17.84	0.061
5	16QAM	12	0	17.05	0.051	17.06	0.051	16.99	0.050
5	16QAM	12	7	16.78	0.048	16.99	0.050	16.98	0.050
5	16QAM	12	13	17.04	0.051	17.07	0.051	17.05	0.051
5	16QAM	25	0	17.10	0.051	17.09	0.051	17.03	0.050
5	64QAM	1	0	16.95	0.050	17.07	0.051	17.08	0.051
5	64QAM	1	12	17.11	0.051	17.07	0.051	17.04	0.051
5	64QAM	1	24	16.94	0.049	16.92	0.049	16.80	0.048
5	64QAM	12	0	16.19	0.042	16.09	0.041	16.13	0.041
5	64QAM	12	7	16.10	0.041	16.12	0.041	16.01	0.040
5	64QAM	12	13	16.14	0.041	16.16	0.041	16.12	0.041
5	64QAM	25	0	16.10	0.041	16.20	0.042	16.05	0.040



LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131987		132322		132657	
Frequency (MHz)				1711.5		1745		1778.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.92	0.078	18.93	0.078	18.88	0.077
3	QPSK	1	8	18.90	0.078	18.84	0.077	18.91	0.078
3	QPSK	1	14	18.89	0.077	18.91	0.078	18.58	0.072
3	QPSK	8	0	18.01	0.063	18.04	0.064	17.95	0.062
3	QPSK	8	4	17.97	0.063	18.01	0.063	17.87	0.061
3	QPSK	8	7	18.02	0.063	18.03	0.064	17.97	0.063
3	QPSK	15	0	17.99	0.063	17.93	0.062	17.90	0.062
3	16QAM	1	0	18.01	0.063	17.85	0.061	17.99	0.063
3	16QAM	1	8	17.85	0.061	17.88	0.061	17.86	0.061
3	16QAM	1	14	17.72	0.059	17.82	0.061	17.77	0.060
3	16QAM	8	0	16.98	0.050	16.99	0.050	16.92	0.049
3	16QAM	8	4	16.71	0.047	16.92	0.049	16.91	0.049
3	16QAM	8	7	16.97	0.050	17.00	0.050	16.98	0.050
3	16QAM	15	0	17.03	0.050	17.02	0.050	16.96	0.050
3	64QAM	1	0	16.88	0.049	17.00	0.050	17.01	0.050
3	64QAM	1	8	17.04	0.051	17.00	0.050	16.97	0.050
3	64QAM	1	14	16.87	0.049	16.85	0.048	16.73	0.047
3	64QAM	8	0	16.12	0.041	16.02	0.040	16.06	0.040
3	64QAM	8	4	16.03	0.040	16.05	0.040	15.94	0.039
3	64QAM	8	7	16.07	0.040	16.09	0.041	16.05	0.040
3	64QAM	15	0	16.03	0.040	16.13	0.041	15.98	0.040



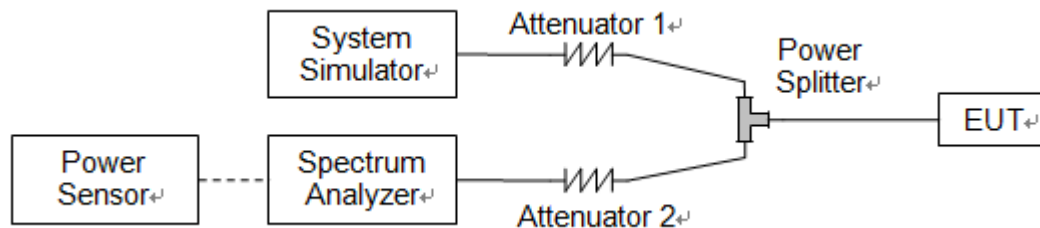
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.90	0.078	18.91	0.078	18.86	0.077
1.4	QPSK	1	3	18.88	0.077	18.82	0.076	18.89	0.077
1.4	QPSK	1	5	18.87	0.077	18.89	0.077	18.56	0.072
1.4	QPSK	3	0	17.99	0.063	18.02	0.063	17.93	0.062
1.4	QPSK	3	1	17.95	0.062	17.99	0.063	17.85	0.061
1.4	QPSK	3	3	18.00	0.063	18.01	0.063	17.95	0.062
1.4	QPSK	6	0	17.97	0.063	17.91	0.062	17.88	0.061
1.4	16QAM	1	0	17.99	0.063	17.83	0.061	17.97	0.063
1.4	16QAM	1	3	17.83	0.061	17.86	0.061	17.84	0.061
1.4	16QAM	1	5	17.70	0.059	17.80	0.060	17.75	0.060
1.4	16QAM	3	0	16.96	0.050	16.97	0.050	16.90	0.049
1.4	16QAM	3	1	16.69	0.047	16.90	0.049	16.89	0.049
1.4	16QAM	3	3	16.95	0.050	16.98	0.050	16.96	0.050
1.4	16QAM	6	0	17.01	0.050	17.00	0.050	16.94	0.049
1.4	64QAM	1	0	16.86	0.049	16.98	0.050	16.99	0.050
1.4	64QAM	1	3	17.02	0.050	16.98	0.050	16.95	0.050
1.4	64QAM	1	5	16.85	0.048	16.83	0.048	16.71	0.047
1.4	64QAM	3	0	16.10	0.041	16.00	0.040	16.04	0.040
1.4	64QAM	3	1	16.01	0.040	16.03	0.040	15.92	0.039
1.4	64QAM	3	3	16.05	0.040	16.07	0.040	16.03	0.040
1.4	64QAM	6	0	16.01	0.040	16.11	0.041	15.96	0.039

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



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

2.2.3. Test Procedure

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



Test Result

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	1.0952	1.2472	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.0999	1.2545	PASS
B2	1.4	Low	18607	1850.7	64QAM	1.1025	1.2445	PASS
B2	1.4	Mid	18900	1880	QPSK	1.0967	1.2411	PASS
B2	1.4	Mid	18900	1880	16QAM	1.0978	1.2490	PASS
B2	1.4	Mid	18900	1880	64QAM	1.1027	1.2493	PASS
B2	1.4	High	19193	1909.3	QPSK	1.0996	1.2476	PASS
B2	1.4	High	19193	1909.3	16QAM	1.0984	1.2487	PASS
B2	1.4	High	19193	1909.3	64QAM	1.1023	1.2530	PASS
B2	3	Low	18615	1851.5	QPSK	2.7184	3.0485	PASS
B2	3	Low	18615	1851.5	16QAM	2.7170	3.0461	PASS
B2	3	Low	18615	1851.5	64QAM	2.7133	3.0359	PASS
B2	3	Mid	18900	1880	QPSK	2.7152	3.0495	PASS
B2	3	Mid	18900	1880	16QAM	2.7113	3.0538	PASS
B2	3	Mid	18900	1880	64QAM	2.7126	3.0441	PASS
B2	3	High	19185	1908.5	QPSK	2.7161	3.0672	PASS
B2	3	High	19185	1908.5	16QAM	2.7135	3.0574	PASS
B2	3	High	19185	1908.5	64QAM	2.7082	3.0505	PASS
B2	5	Low	18625	1852.5	QPSK	4.4686	4.8758	PASS
B2	5	Low	18625	1852.5	16QAM	4.4703	4.9062	PASS
B2	5	Low	18625	1852.5	64QAM	4.4708	4.8979	PASS
B2	5	Mid	18900	1880	QPSK	4.4709	4.8783	PASS
B2	5	Mid	18900	1880	16QAM	4.4710	4.9073	PASS
B2	5	Mid	18900	1880	64QAM	4.4714	4.9139	PASS
B2	5	High	19175	1907.5	QPSK	4.4719	4.8844	PASS
B2	5	High	19175	1907.5	16QAM	4.4628	4.8940	PASS
B2	5	High	19175	1907.5	64QAM	4.4775	4.8569	PASS
B2	10	Low	18650	1855	QPSK	8.9474	9.7075	PASS
B2	10	Low	18650	1855	16QAM	8.9279	9.6717	PASS
B2	10	Low	18650	1855	64QAM	8.9488	9.7324	PASS
B2	10	Mid	18900	1880	QPSK	8.9653	9.7200	PASS
B2	10	Mid	18900	1880	16QAM	8.9345	9.6690	PASS
B2	10	Mid	18900	1880	64QAM	8.9618	9.7271	PASS



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B2	10	High	19150	1905	QPSK	8.9530	9.7263	PASS
B2	10	High	19150	1905	16QAM	8.9264	9.6759	PASS
B2	10	High	19150	1905	64QAM	8.9602	9.7526	PASS
B2	15	Low	18675	1857.5	QPSK	13.427	14.562	PASS
B2	15	Low	18675	1857.5	16QAM	13.397	14.676	PASS
B2	15	Low	18675	1857.5	64QAM	13.413	14.636	PASS
B2	15	Mid	18900	1880	QPSK	13.435	14.726	PASS
B2	15	Mid	18900	1880	16QAM	13.415	14.787	PASS
B2	15	Mid	18900	1880	64QAM	13.436	14.699	PASS
B2	15	High	19125	1902.5	QPSK	13.427	14.554	PASS
B2	15	High	19125	1902.5	16QAM	13.422	14.772	PASS
B2	15	High	19125	1902.5	64QAM	13.415	14.679	PASS
B2	20	Low	18700	1860	QPSK	17.865	19.324	PASS
B2	20	Low	18700	1860	16QAM	17.888	19.401	PASS
B2	20	Low	18700	1860	64QAM	17.910	19.283	PASS
B2	20	Mid	18900	1880	QPSK	17.925	19.403	PASS
B2	20	Mid	18900	1880	16QAM	17.959	19.543	PASS
B2	20	Mid	18900	1880	64QAM	17.931	19.480	PASS
B2	20	High	19100	1900	QPSK	17.890	19.476	PASS
B2	20	High	19100	1900	16QAM	17.913	19.404	PASS
B2	20	High	19100	1900	64QAM	17.923	19.345	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B4	1.4	Low	19957	1710.7	QPSK	1.0979	1.2484	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.1042	1.2648	PASS
B4	1.4	Low	19957	1710.7	64QAM	1.1062	1.2554	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.0971	1.2435	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.0970	1.2515	PASS
B4	1.4	Mid	20175	1732.5	64QAM	1.1011	1.2489	PASS
B4	1.4	High	20393	1754.3	QPSK	1.0990	1.2473	PASS
B4	1.4	High	20393	1754.3	16QAM	1.1007	1.2474	PASS
B4	1.4	High	20393	1754.3	64QAM	1.1061	1.2690	PASS
B4	3	Low	19965	1711.5	QPSK	2.7218	3.0513	PASS
B4	3	Low	19965	1711.5	16QAM	2.7210	3.0504	PASS
B4	3	Low	19965	1711.5	64QAM	2.7181	3.0304	PASS
B4	3	Mid	20175	1732.5	QPSK	2.7164	3.0476	PASS
B4	3	Mid	20175	1732.5	16QAM	2.7199	3.0578	PASS
B4	3	Mid	20175	1732.5	64QAM	2.7127	3.0126	PASS
B4	3	High	20385	1753.5	QPSK	2.7203	3.0517	PASS
B4	3	High	20385	1753.5	16QAM	2.7206	3.0577	PASS
B4	3	High	20385	1753.5	64QAM	2.7130	3.0367	PASS
B4	5	Low	19975	1712.5	QPSK	4.4685	4.8682	PASS
B4	5	Low	19975	1712.5	16QAM	4.4737	4.8995	PASS
B4	5	Low	19975	1712.5	64QAM	4.4813	4.9033	PASS
B4	5	Mid	20175	1732.5	QPSK	4.4696	4.8852	PASS
B4	5	Mid	20175	1732.5	16QAM	4.4647	4.8928	PASS
B4	5	Mid	20175	1732.5	64QAM	4.4727	4.8935	PASS
B4	5	High	20375	1752.5	QPSK	4.4736	4.8956	PASS
B4	5	High	20375	1752.5	16QAM	4.4768	4.8871	PASS
B4	5	High	20375	1752.5	64QAM	4.4767	4.8967	PASS
B4	10	Low	20000	1715	QPSK	8.9641	9.8320	PASS
B4	10	Low	20000	1715	16QAM	8.9272	9.6977	PASS
B4	10	Low	20000	1715	64QAM	8.9593	9.7963	PASS
B4	10	Mid	20175	1732.5	QPSK	8.9664	9.7527	PASS
B4	10	Mid	20175	1732.5	16QAM	8.9342	9.7224	PASS
B4	10	Mid	20175	1732.5	64QAM	8.9618	9.7544	PASS
B4	10	High	20350	1750	QPSK	8.9588	9.7748	PASS
B4	10	High	20350	1750	16QAM	8.9365	9.7077	PASS



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B4	10	High	20350	1750	64QAM	8.9482	9.7861	PASS
B4	15	Low	20025	1717.5	QPSK	13.423	14.570	PASS
B4	15	Low	20025	1717.5	16QAM	13.429	14.818	PASS
B4	15	Low	20025	1717.5	64QAM	13.401	14.614	PASS
B4	15	Mid	20175	1732.5	QPSK	13.423	14.522	PASS
B4	15	Mid	20175	1732.5	16QAM	13.436	14.782	PASS
B4	15	Mid	20175	1732.5	64QAM	13.406	14.642	PASS
B4	15	High	20325	1747.5	QPSK	13.422	14.585	PASS
B4	15	High	20325	1747.5	16QAM	13.423	14.700	PASS
B4	15	High	20325	1747.5	64QAM	13.416	14.545	PASS
B4	20	Low	20050	1720	QPSK	17.880	19.403	PASS
B4	20	Low	20050	1720	16QAM	17.940	19.502	PASS
B4	20	Low	20050	1720	64QAM	17.894	19.283	PASS
B4	20	Mid	20175	1732.5	QPSK	17.891	19.380	PASS
B4	20	Mid	20175	1732.5	16QAM	17.920	19.494	PASS
B4	20	Mid	20175	1732.5	64QAM	17.926	19.419	PASS
B4	20	High	20300	1745	QPSK	17.890	19.452	PASS
B4	20	High	20300	1745	16QAM	17.897	19.598	PASS
B4	20	High	20300	1745	64QAM	17.910	19.479	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B5	1.4	Low	20407	824.7	QPSK	1.0918	1.2447	PASS
B5	1.4	Low	20407	824.7	16QAM	1.0999	1.2519	PASS
B5	1.4	Low	20407	824.7	64QAM	1.1028	1.2509	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.0950	1.2450	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.0971	1.2489	PASS
B5	1.4	Mid	20525	836.5	64QAM	1.1049	1.2499	PASS
B5	1.4	High	20643	848.3	QPSK	1.0949	1.2430	PASS
B5	1.4	High	20643	848.3	16QAM	1.0985	1.2503	PASS
B5	1.4	High	20643	848.3	64QAM	1.0977	1.2481	PASS
B5	3	Low	20415	825.5	QPSK	2.7143	3.0586	PASS
B5	3	Low	20415	825.5	16QAM	2.7122	3.0253	PASS
B5	3	Low	20415	825.5	64QAM	2.7039	3.0439	PASS
B5	3	Mid	20525	836.5	QPSK	2.7117	3.0389	PASS
B5	3	Mid	20525	836.5	16QAM	2.7035	3.0560	PASS
B5	3	Mid	20525	836.5	64QAM	2.7155	3.0534	PASS
B5	3	High	20635	847.5	QPSK	2.7152	3.0588	PASS
B5	3	High	20635	847.5	16QAM	2.7083	3.0350	PASS
B5	3	High	20635	847.5	64QAM	2.7082	3.0284	PASS
B5	5	Low	20425	826.5	QPSK	4.4723	4.8872	PASS
B5	5	Low	20425	826.5	16QAM	4.4773	4.8813	PASS
B5	5	Low	20425	826.5	64QAM	4.4767	4.9010	PASS
B5	5	Mid	20525	836.5	QPSK	4.4684	4.8750	PASS
B5	5	Mid	20525	836.5	16QAM	4.4732	4.8957	PASS
B5	5	Mid	20525	836.5	64QAM	4.4726	4.8717	PASS
B5	5	High	20625	846.5	QPSK	4.4721	4.8835	PASS
B5	5	High	20625	846.5	16QAM	4.4705	4.8887	PASS
B5	5	High	20625	846.5	64QAM	4.4695	4.8613	PASS
B5	10	Low	20450	829	QPSK	8.9504	9.7555	PASS
B5	10	Low	20450	829	16QAM	8.9319	9.6868	PASS
B5	10	Low	20450	829	64QAM	8.9487	9.7037	PASS
B5	10	Mid	20525	836.5	QPSK	8.9515	9.8137	PASS
B5	10	Mid	20525	836.5	16QAM	8.9195	9.7010	PASS
B5	10	Mid	20525	836.5	64QAM	8.9481	9.8198	PASS
B5	10	High	20600	844	QPSK	8.9486	9.8143	PASS
B5	10	High	20600	844	16QAM	8.9406	9.7222	PASS



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B5	10	High	20600	844	64QAM	8.9438	9.7131	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B7	5	Low	20775	2502.5	QPSK	4.4748	4.8630	PASS
B7	5	Low	20775	2502.5	16QAM	4.4752	4.8990	PASS
B7	5	Low	20775	2502.5	64QAM	4.4810	4.8658	PASS
B7	5	Mid	21100	2535	QPSK	4.4727	4.8843	PASS
B7	5	Mid	21100	2535	16QAM	4.4628	4.8726	PASS
B7	5	Mid	21100	2535	64QAM	4.4732	4.8828	PASS
B7	5	High	21425	2567.5	QPSK	4.4747	4.8705	PASS
B7	5	High	21425	2567.5	16QAM	4.4674	4.8885	PASS
B7	5	High	21425	2567.5	64QAM	4.4729	4.8972	PASS
B7	10	Low	20800	2505	QPSK	8.9579	9.7504	PASS
B7	10	Low	20800	2505	16QAM	8.9354	9.6462	PASS
B7	10	Low	20800	2505	64QAM	8.9617	9.7565	PASS
B7	10	Mid	21100	2535	QPSK	8.9543	9.7387	PASS
B7	10	Mid	21100	2535	16QAM	8.9341	9.6960	PASS
B7	10	Mid	21100	2535	64QAM	8.9531	9.7682	PASS
B7	10	High	21400	2565	QPSK	8.9568	9.7521	PASS
B7	10	High	21400	2565	16QAM	8.9444	9.6737	PASS
B7	10	High	21400	2565	64QAM	8.9513	9.6948	PASS
B7	15	Low	20825	2507.5	QPSK	13.454	14.567	PASS
B7	15	Low	20825	2507.5	16QAM	13.419	14.729	PASS
B7	15	Low	20825	2507.5	64QAM	13.384	14.750	PASS
B7	15	Mid	21100	2535	QPSK	13.421	14.643	PASS
B7	15	Mid	21100	2535	16QAM	13.437	14.841	PASS
B7	15	Mid	21100	2535	64QAM	13.414	14.715	PASS
B7	15	High	21375	2562.5	QPSK	13.407	14.668	PASS
B7	15	High	21375	2562.5	16QAM	13.453	14.733	PASS
B7	15	High	21375	2562.5	64QAM	13.419	14.666	PASS
B7	20	Low	20850	2510	QPSK	17.888	19.415	PASS
B7	20	Low	20850	2510	16QAM	17.873	19.469	PASS
B7	20	Low	20850	2510	64QAM	17.887	19.332	PASS
B7	20	Mid	21100	2535	QPSK	17.901	19.430	PASS
B7	20	Mid	21100	2535	16QAM	17.920	19.511	PASS
B7	20	Mid	21100	2535	64QAM	17.943	19.639	PASS



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B7	20	High	21350	2560	QPSK	17.891	19.385	PASS
B7	20	High	21350	2560	16QAM	17.899	19.532	PASS
B7	20	High	21350	2560	64QAM	17.912	19.362	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B12	1.4	Low	23017	699.7	QPSK	1.0923	1.2463	PASS
B12	1.4	Low	23017	699.7	16QAM	1.1026	1.2430	PASS
B12	1.4	Low	23017	699.7	64QAM	1.1035	1.2508	PASS
B12	1.4	Mid	23095	707.5	QPSK	1.0967	1.2381	PASS
B12	1.4	Mid	23095	707.5	16QAM	1.0999	1.2523	PASS
B12	1.4	Mid	23095	707.5	64QAM	1.0995	1.2482	PASS
B12	1.4	High	23173	715.3	QPSK	1.0988	1.2462	PASS
B12	1.4	High	23173	715.3	16QAM	1.1032	1.2354	PASS
B12	1.4	High	23173	715.3	64QAM	1.1031	1.2502	PASS
B12	3	Low	23025	700.5	QPSK	2.7083	3.0432	PASS
B12	3	Low	23025	700.5	16QAM	2.7177	3.0525	PASS
B12	3	Low	23025	700.5	64QAM	2.7049	2.9209	PASS
B12	3	Mid	23095	707.5	QPSK	2.7119	3.0511	PASS
B12	3	Mid	23095	707.5	16QAM	2.7223	3.0525	PASS
B12	3	Mid	23095	707.5	64QAM	2.7114	3.0184	PASS
B12	3	High	23165	714.5	QPSK	2.7123	3.0631	PASS
B12	3	High	23165	714.5	16QAM	2.7137	3.0628	PASS
B12	3	High	23165	714.5	64QAM	2.7158	3.0477	PASS
B12	5	Low	23035	701.5	QPSK	4.4706	4.8594	PASS
B12	5	Low	23035	701.5	16QAM	4.4684	4.8886	PASS
B12	5	Low	23035	701.5	64QAM	4.4759	4.9059	PASS
B12	5	Mid	23095	707.5	QPSK	4.4710	4.8702	PASS
B12	5	Mid	23095	707.5	16QAM	4.4693	4.8830	PASS
B12	5	Mid	23095	707.5	64QAM	4.4740	4.8756	PASS
B12	5	High	23155	713.5	QPSK	4.4740	4.8856	PASS
B12	5	High	23155	713.5	16QAM	4.4774	4.9115	PASS
B12	5	High	23155	713.5	64QAM	4.4783	4.8993	PASS
B12	10	Low	23060	704	QPSK	8.9624	9.7443	PASS
B12	10	Low	23060	704	16QAM	8.9491	9.6592	PASS
B12	10	Low	23060	704	64QAM	8.9521	9.7456	PASS
B12	10	Mid	23095	707.5	QPSK	8.9469	9.7513	PASS
B12	10	Mid	23095	707.5	16QAM	8.9213	9.6845	PASS
B12	10	Mid	23095	707.5	64QAM	8.9381	9.7313	PASS
B12	10	High	23130	711	QPSK	8.9601	9.6584	PASS
B12	10	High	23130	711	16QAM	8.9414	9.7562	PASS



B12	10	High	23130	711	64QAM	8.9669	9.8065	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B13	5	Low	23205	779.5	QPSK	4.4713	4.8752	PASS
B13	5	Low	23205	779.5	16QAM	4.4693	4.9073	PASS
B13	5	Low	23205	779.5	64QAM	4.4684	4.8642	PASS
B13	5	Mid	23230	782	QPSK	4.4740	4.8628	PASS
B13	5	Mid	23230	782	16QAM	4.4769	4.9157	PASS
B13	5	Mid	23230	782	64QAM	4.4749	4.8752	PASS
B13	5	High	23255	784.5	QPSK	4.4724	4.8778	PASS
B13	5	High	23255	784.5	16QAM	4.4712	4.8581	PASS
B13	5	High	23255	784.5	64QAM	4.4800	4.8888	PASS
B13	10	Mid	23230	782	QPSK	8.9686	9.8125	PASS
B13	10	Mid	23230	782	16QAM	8.9357	9.7415	PASS
B13	10	Mid	23230	782	64QAM	8.9466	9.7504	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B17	5	Low	23755	706.5	QPSK	4.4710	4.8641	PASS
B17	5	Low	23755	706.5	16QAM	4.4632	4.8821	PASS
B17	5	Low	23755	706.5	64QAM	4.4764	4.9045	PASS
B17	5	Mid	23790	710	QPSK	4.4732	4.8860	PASS
B17	5	Mid	23790	710	16QAM	4.4634	4.8932	PASS
B17	5	Mid	23790	710	64QAM	4.4683	4.8860	PASS
B17	5	High	23825	713.5	QPSK	4.4720	4.9032	PASS
B17	5	High	23825	713.5	16QAM	4.4725	4.9061	PASS
B17	5	High	23825	713.5	64QAM	4.4756	4.8991	PASS
B17	10	Low	23780	709	QPSK	8.9441	9.7906	PASS
B17	10	Low	23780	709	16QAM	8.9316	9.7055	PASS
B17	10	Low	23780	709	64QAM	8.9459	9.7035	PASS
B17	10	Mid	23790	710	QPSK	8.9599	9.6578	PASS
B17	10	Mid	23790	710	16QAM	8.9332	9.6991	PASS
B17	10	Mid	23790	710	64QAM	8.9444	9.7697	PASS
B17	10	High	23800	711	QPSK	8.9594	9.7306	PASS
B17	10	High	23800	711	16QAM	8.9405	9.6818	PASS
B17	10	High	23800	711	64QAM	8.9548	9.7739	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B38	5	Low	37775	2572.5	QPSK	4.4816	4.7326	PASS
B38	5	Low	37775	2572.5	16QAM	4.4377	4.6804	PASS
B38	5	Low	37775	2572.5	64QAM	4.4557	4.6573	PASS
B38	5	Mid	38000	2595	QPSK	4.4638	4.7753	PASS
B38	5	Mid	38000	2595	16QAM	4.4733	4.9293	PASS
B38	5	Mid	38000	2595	64QAM	4.4705	4.8493	PASS
B38	5	High	38225	2617.5	QPSK	4.4637	4.8990	PASS
B38	5	High	38225	2617.5	16QAM	4.4747	4.8635	PASS
B38	5	High	38225	2617.5	64QAM	4.4737	4.8539	PASS
B38	10	Low	37800	2575	QPSK	8.9565	9.7671	PASS
B38	10	Low	37800	2575	16QAM	8.9350	9.5665	PASS
B38	10	Low	37800	2575	64QAM	8.9426	9.7866	PASS
B38	10	Mid	38000	2595	QPSK	8.9481	9.6460	PASS
B38	10	Mid	38000	2595	16QAM	8.9323	9.6510	PASS
B38	10	Mid	38000	2595	64QAM	8.9565	9.7640	PASS
B38	10	High	38200	2615	QPSK	8.9369	9.7284	PASS
B38	10	High	38200	2615	16QAM	8.9518	9.6454	PASS
B38	10	High	38200	2615	64QAM	8.9464	9.7610	PASS
B38	15	Low	37825	2577.5	QPSK	13.406	14.536	PASS
B38	15	Low	37825	2577.5	16QAM	13.433	14.527	PASS
B38	15	Low	37825	2577.5	64QAM	13.381	14.623	PASS
B38	15	Mid	38000	2595	QPSK	13.421	14.515	PASS
B38	15	Mid	38000	2595	16QAM	13.442	14.733	PASS
B38	15	Mid	38000	2595	64QAM	13.430	14.629	PASS
B38	15	High	38175	2612.5	QPSK	13.406	14.575	PASS
B38	15	High	38175	2612.5	16QAM	13.433	14.504	PASS
B38	15	High	38175	2612.5	64QAM	13.398	14.684	PASS
B38	20	Low	37850	2580	QPSK	17.863	19.737	PASS
B38	20	Low	37850	2580	16QAM	17.888	19.489	PASS
B38	20	Low	37850	2580	64QAM	17.914	19.430	PASS
B38	20	Mid	38000	2595	QPSK	17.897	19.534	PASS
B38	20	Mid	38000	2595	16QAM	17.925	19.519	PASS
B38	20	Mid	38000	2595	64QAM	17.939	19.243	PASS
B38	20	High	38150	2610	QPSK	17.906	19.614	PASS
B38	20	High	38150	2610	16QAM	17.918	19.360	PASS



B38	20	High	38150	2610	64QAM	17.888	19.241	PASS
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LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B40-1	5	Low	38725	2307.5	QPSK	4.4756	4.8449	PASS
B40-1	5	Low	38725	2307.5	16QAM	4.4690	4.8962	PASS
B40-1	5	Low	38725	2307.5	64QAM	4.4863	4.8527	PASS
B40-1	5	Mid	38750	2310	QPSK	4.4750	4.8742	PASS
B40-1	5	Mid	38750	2310	16QAM	4.4665	4.8586	PASS
B40-1	5	Mid	38750	2310	64QAM	4.4822	4.8701	PASS
B40-1	5	High	38775	2312.5	QPSK	4.4700	4.8471	PASS
B40-1	5	High	38775	2312.5	16QAM	4.4622	4.8872	PASS
B40-1	5	High	38775	2312.5	64QAM	4.4775	4.8552	PASS
B40-1	10	Mid	38750	2310	QPSK	8.9573	9.7795	PASS
B40-1	10	Mid	38750	2310	16QAM	8.9396	9.4834	PASS
B40-1	10	Mid	38750	2310	64QAM	8.9470	9.8911	PASS

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B40-2	5	Low	39175	2352.5	QPSK	4.4677	4.8958	PASS
B40-2	5	Low	39175	2352.5	16QAM	4.4772	4.8980	PASS
B40-2	5	Low	39175	2352.5	64QAM	4.4697	4.8395	PASS
B40-2	5	Mid	39200	2355	QPSK	4.4700	4.8673	PASS
B40-2	5	Mid	39200	2355	16QAM	4.4678	4.9109	PASS
B40-2	5	Mid	39200	2355	64QAM	4.4682	4.8541	PASS
B40-2	5	High	39225	2357.5	QPSK	4.4690	4.8665	PASS
B40-2	5	High	39225	2357.5	16QAM	4.4732	4.9123	PASS
B40-2	5	High	39225	2357.5	64QAM	4.4837	4.8622	PASS
B40-2	10	Mid	39200	2355	QPSK	8.9482	9.7476	PASS
B40-2	10	Mid	39200	2355	16QAM	8.9395	9.6882	PASS
B40-2	10	Mid	39200	2355	64QAM	8.9501	9.7847	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B66	1.4	Low	131979	1710.7	QPSK	1.1009	1.2543	PASS
B66	1.4	Low	131979	1710.7	16QAM	1.1013	1.2581	PASS
B66	1.4	Low	131979	1710.7	64QAM	1.1050	1.2572	PASS
B66	1.4	Mid	132322	1745	QPSK	1.0971	1.2563	PASS
B66	1.4	Mid	132322	1745	16QAM	1.1003	1.2547	PASS
B66	1.4	Mid	132322	1745	64QAM	1.1010	1.2506	PASS
B66	1.4	High	132665	1779.3	QPSK	1.1073	1.2176	PASS
B66	1.4	High	132665	1779.3	16QAM	1.0991	1.2482	PASS
B66	1.4	High	132665	1779.3	64QAM	1.0977	1.2541	PASS
B66	3	Low	131987	1711.5	QPSK	2.7196	3.0497	PASS
B66	3	Low	131987	1711.5	16QAM	2.7190	3.0664	PASS
B66	3	Low	131987	1711.5	64QAM	2.7094	3.0496	PASS
B66	3	Mid	132322	1745	QPSK	2.7135	3.0444	PASS
B66	3	Mid	132322	1745	16QAM	2.7092	3.0693	PASS
B66	3	Mid	132322	1745	64QAM	2.7087	3.0433	PASS
B66	3	High	132657	1778.5	QPSK	2.7188	3.0473	PASS
B66	3	High	132657	1778.5	16QAM	2.7146	3.0627	PASS
B66	3	High	132657	1778.5	64QAM	2.7093	3.0421	PASS
B66	5	Low	131997	1712.5	QPSK	4.4701	4.9114	PASS
B66	5	Low	131997	1712.5	16QAM	4.4766	4.9242	PASS
B66	5	Low	131997	1712.5	64QAM	4.4820	4.8616	PASS
B66	5	Mid	132322	1745	QPSK	4.4692	4.8854	PASS
B66	5	Mid	132322	1745	16QAM	4.4759	4.9252	PASS
B66	5	Mid	132322	1745	64QAM	4.4758	4.8903	PASS
B66	5	High	132647	1777.5	QPSK	4.4654	4.8832	PASS
B66	5	High	132647	1777.5	16QAM	4.4750	4.8816	PASS
B66	5	High	132647	1777.5	64QAM	4.4752	4.9086	PASS
B66	10	Low	132022	1715	QPSK	8.9617	9.7813	PASS
B66	10	Low	132022	1715	16QAM	8.9486	9.7656	PASS
B66	10	Low	132022	1715	64QAM	8.9516	9.7591	PASS
B66	10	Mid	132322	1745	QPSK	8.9583	9.7360	PASS
B66	10	Mid	132322	1745	16QAM	8.9390	9.6881	PASS
B66	10	Mid	132322	1745	64QAM	8.9569	9.7193	PASS
B66	10	High	132622	1775	QPSK	8.9651	9.7509	PASS
B66	10	High	132622	1775	16QAM	8.9322	9.6803	PASS



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B66	10	High	132622	1775	64QAM	8.9383	9.7285	PASS
B66	15	Low	132047	1717.5	QPSK	13.422	14.565	PASS
B66	15	Low	132047	1717.5	16QAM	13.438	14.768	PASS
B66	15	Low	132047	1717.5	64QAM	13.424	14.724	PASS
B66	15	Mid	132322	1745	QPSK	13.428	14.645	PASS
B66	15	Mid	132322	1745	16QAM	13.424	14.723	PASS
B66	15	Mid	132322	1745	64QAM	13.404	14.628	PASS
B66	15	High	132597	1772.5	QPSK	13.415	14.691	PASS
B66	15	High	132597	1772.5	16QAM	13.440	14.722	PASS
B66	15	High	132597	1772.5	64QAM	13.418	14.665	PASS
B66	20	Low	132072	1720	QPSK	17.901	19.459	PASS
B66	20	Low	132072	1720	16QAM	17.899	19.564	PASS
B66	20	Low	132072	1720	64QAM	17.913	19.370	PASS
B66	20	Mid	132322	1745	QPSK	17.890	19.450	PASS
B66	20	Mid	132322	1745	16QAM	17.931	19.419	PASS
B66	20	Mid	132322	1745	64QAM	17.896	19.457	PASS
B66	20	High	132572	1770	QPSK	17.912	19.557	PASS
B66	20	High	132572	1770	16QAM	17.912	19.598	PASS
B66	20	High	132572	1770	64QAM	17.902	19.496	PASS

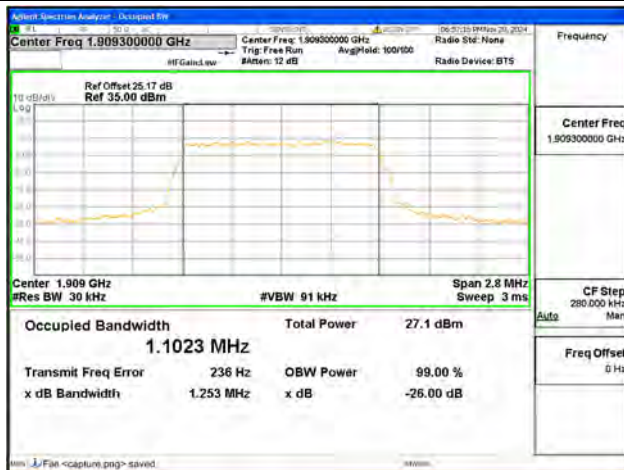




B2 / 1.4MHz / QPSK/ High CH



B2 / 1.4MHz / 16QAM/ High CH



B2 / 1.4MHz / 64QAM/ High CH



B2 / 3MHz / QPSK/ Low CH



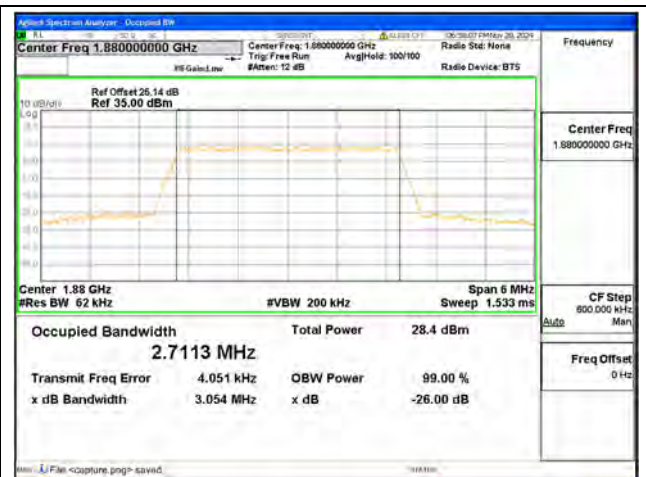
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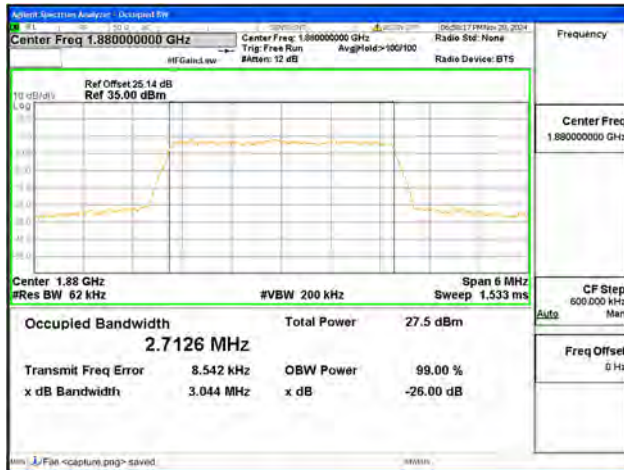
B2 / 3MHz / 64QAM/ Low CH



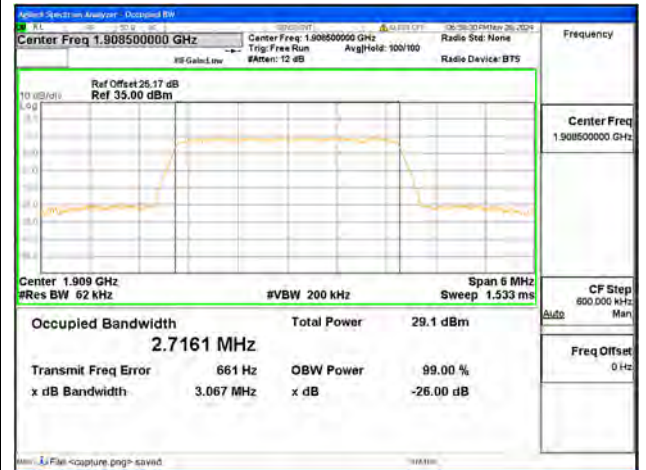
B2 / 3MHz / QPSK/ Mid CH



B2 / 3MHz / 16QAM/ Mid CH



B2 / 3MHz / 64QAM/ Mid CH



B2 / 3MHz / QPSK/ High CH



B2 / 3MHz / 16QAM/ High CH



B2 / 3MHz / 64QAM/ High CH



B2 / 5MHz / QPSK/ Low CH



B2 / 5MHz / 16QAM/ Low CH



B2 / 5MHz / 64QAM/ Low CH



B2 / 5MHz / QPSK/ Mid CH



B2 / 5MHz / 16QAM/ Mid CH



B2 / 5MHz / 64QAM/ Mid CH



B2 / 5MHz / QPSK/ High CH



B2 / 5MHz / 16QAM/ High CH



B2 / 5MHz / 64QAM/ High CH



B2 / 10MHz / QPSK/ Low CH



B2 / 10MHz / 16QAM/ Low CH



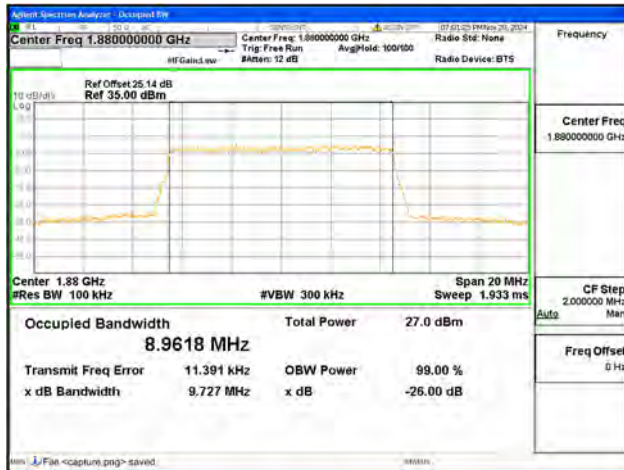
B2 / 10MHz / 64QAM/ Low CH



B2 / 10MHz / QPSK/ Mid CH



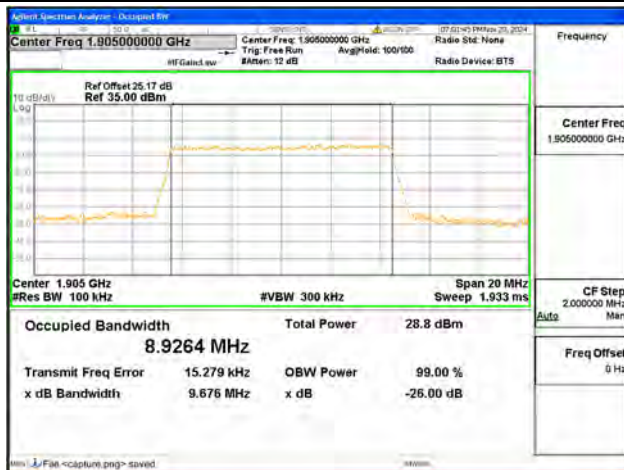
B2 / 10MHz / 16QAM/ Mid CH



B2 / 10MHz / 64QAM/ Mid CH



B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 16QAM/ High CH



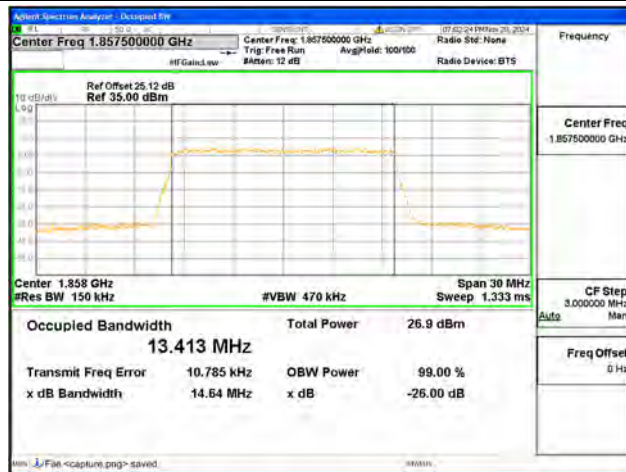
B2 / 10MHz / 64QAM/ High CH



B2 / 15MHz / QPSK/ Low CH



B2 / 15MHz / 16QAM/ Low CH



B2 / 15MHz / 64QAM/ Low CH



B2 / 15MHz / QPSK/ Mid CH



B2 / 15MHz / 16QAM/ Mid CH



B2 / 15MHz / 64QAM/ Mid CH



B2 / 15MHz / QPSK/ High CH



B2 / 15MHz / 16QAM/ High CH



B2 / 15MHz / 64QAM/ High CH



B2 / 20MHz / QPSK/ Low CH



B2 / 20MHz / 16QAM/ Low CH



B2 / 20MHz / 64QAM/ Low CH



B2 / 20MHz / QPSK/ Mid CH



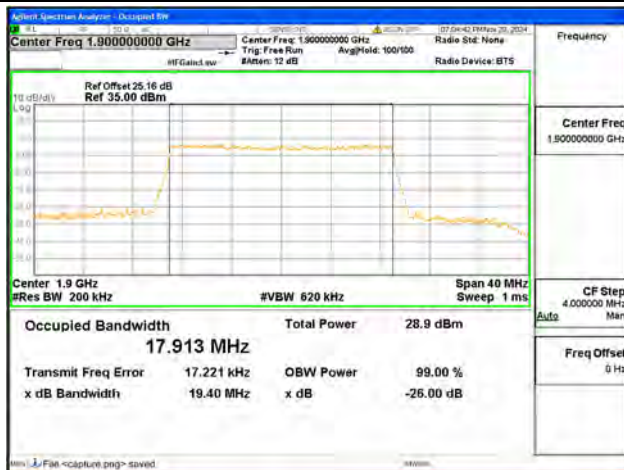
B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / 64QAM/ Mid CH



B2 / 20MHz / QPSK/ High CH



B2 / 20MHz / 16QAM/ High CH



B2 / 20MHz / 64QAM/ High CH

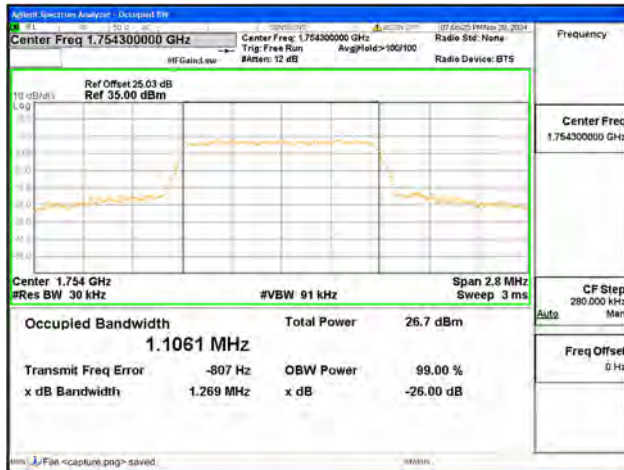




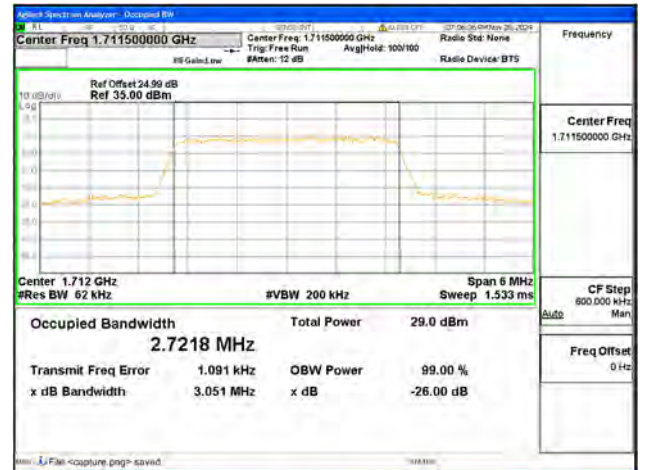
B4 / 1.4MHz / QPSK/ High CH



B4 / 1.4MHz / 16QAM/ High CH



B4 / 1.4MHz / 64QAM/ High CH



B4 / 3MHz / QPSK/ Low CH



B4 / 3MHz / 16QAM/ Low CH



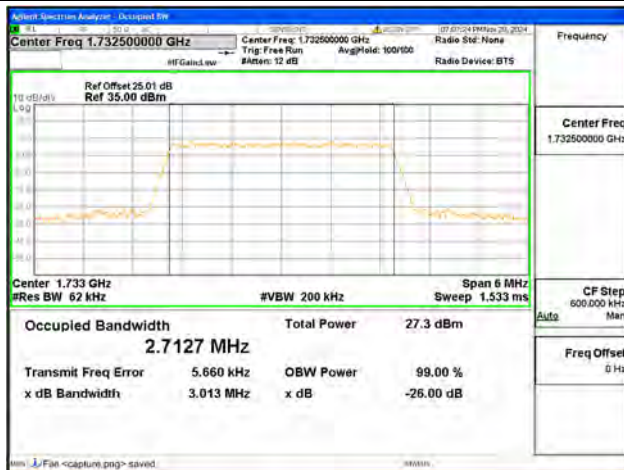
B4 / 3MHz / 64QAM/ Low CH



B4 / 3MHz / QPSK/ Mid CH



B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / 64QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH



B4 / 3MHz / 16QAM/ High CH



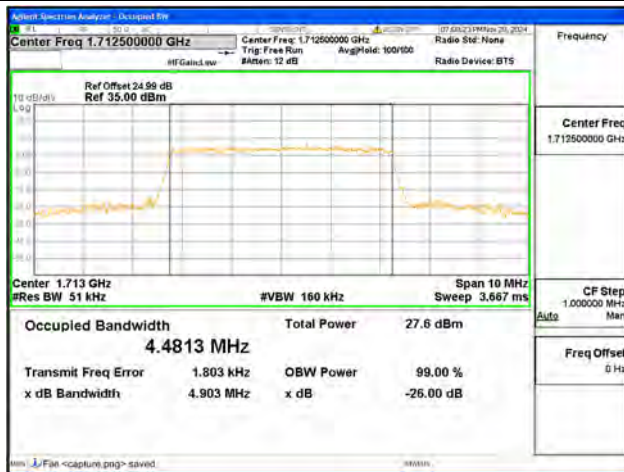
B4 / 3MHz / 64QAM/ High CH



B4 / 5MHz / QPSK/ Low CH



B4 / 5MHz / 16QAM/ Low CH



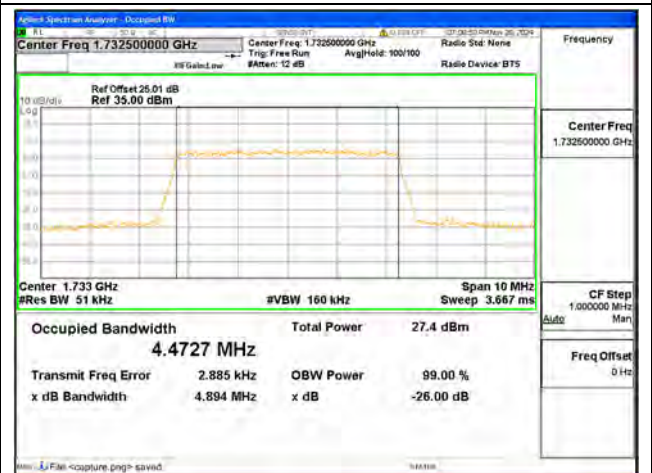
B4 / 5MHz / 64QAM/ Low CH



B4 / 5MHz / QPSK/ Mid CH



B4 / 5MHz / 16QAM/ Mid CH



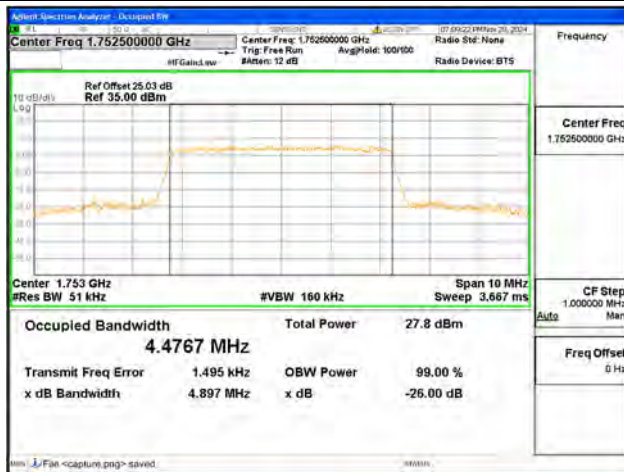
B4 / 5MHz / 64QAM/ Mid CH



B4 / 5MHz / QPSK/ High CH



B4 / 5MHz / 16QAM/ High CH



B4 / 5MHz / 64QAM/ High CH



B4 / 10MHz / QPSK/ Low CH



B4 / 10MHz / 16QAM/ Low CH



B4 / 10MHz / 64QAM/ Low CH



B4 / 10MHz / QPSK/ Mid CH



B4 / 10MHz / 16QAM/ Mid CH



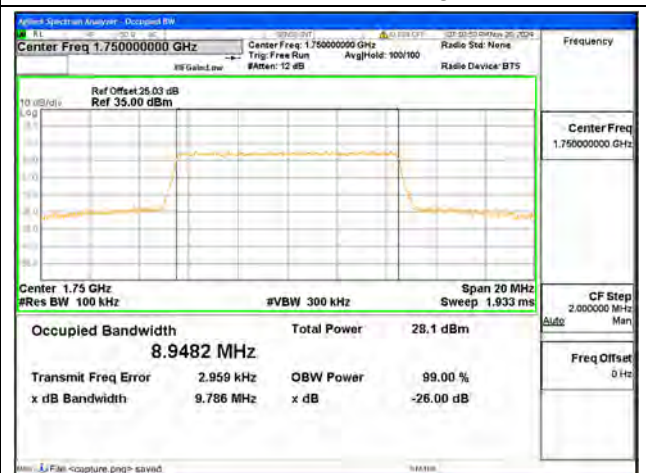
B4 / 10MHz / 64QAM/ Mid CH



B4 / 10MHz / QPSK/ High CH



B4 / 10MHz / 16QAM/ High CH



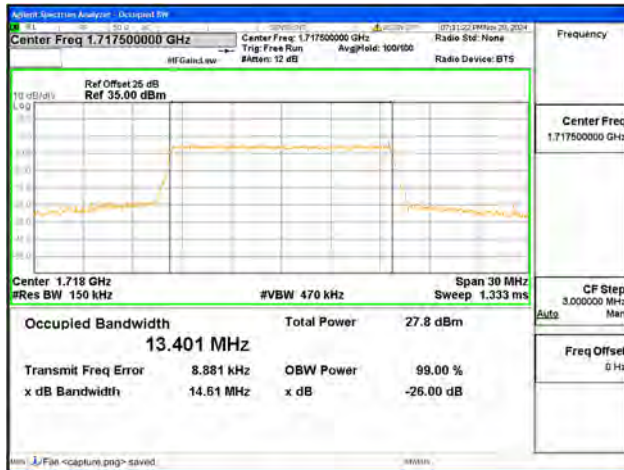
B4 / 10MHz / 64QAM/ High CH



B4 / 15MHz / QPSK/ Low CH



B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / 64QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



B4 / 15MHz / 16QAM/ Mid CH



B4 / 15MHz / 64QAM/ Mid CH



B4 / 15MHz / QPSK/ High CH



B4 / 15MHz / 16QAM/ High CH



B4 / 15MHz / 64QAM/ High CH



B4 / 20MHz / QPSK/ Low CH



B4 / 20MHz / 16QAM/ Low CH



B4 / 20MHz / 64QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



B4 / 20MHz / 16QAM/ Mid CH



B4 / 20MHz / 64QAM/ Mid CH



B4 / 20MHz / QPSK/ High CH



B4 / 20MHz / 16QAM/ High CH



B4 / 20MHz / 64QAM/ High CH



B5 / 1.4MHz / QPSK/ Low CH



B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / 64QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



B5 / 1.4MHz / 16QAM/ Mid CH



B5 / 1.4MHz / 64QAM/ Mid CH



B5 / 1.4MHz / QPSK/ High CH



B5 / 1.4MHz / 16QAM/ High CH



B5 / 1.4MHz / 64QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



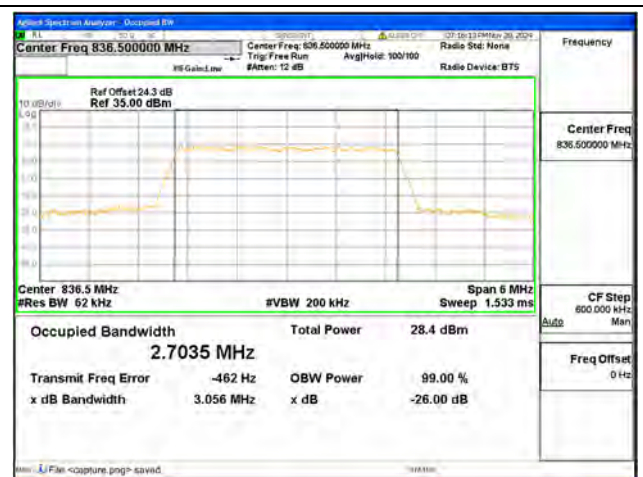
B5 / 3MHz / 16QAM/ Low CH



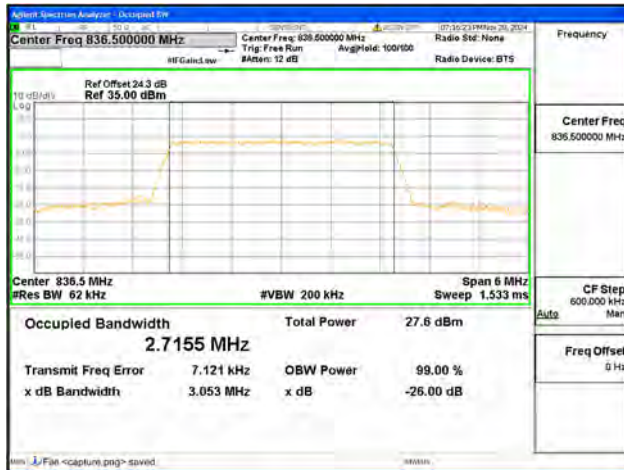
B5 / 3MHz / 64QAM/ Low CH



B5 / 3MHz / QPSK/ Mid CH



B5 / 3MHz / 16QAM/ Mid CH



B5 / 3MHz / 64QAM/ Mid CH



B5 / 3MHz / 16QAM/ High CH



B5 / 3MHz / 64QAM/ High CH



B5 / 3MHz / QPSK/ High CH



B5 / 5MHz / QPSK/ Low CH



B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / 64QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



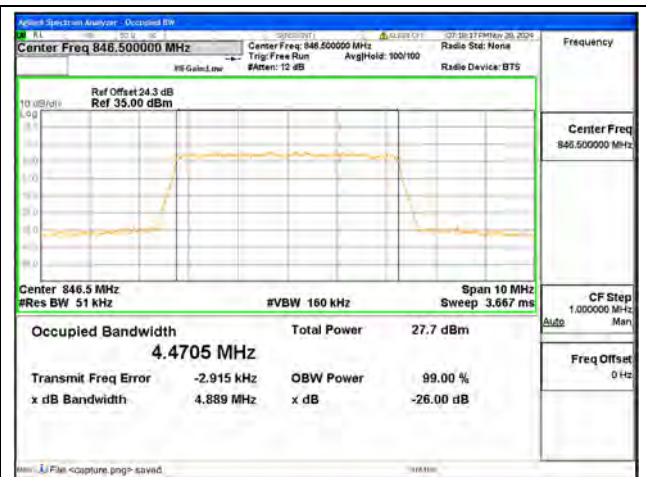
B5 / 5MHz / 16QAM/ Mid CH



B5 / 5MHz / 64QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH



B5 / 5MHz / 16QAM/ High CH



B5 / 5MHz / 64QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



B5 / 10MHz / 16QAM/ Low CH



B5 / 10MHz / 64QAM/ Low CH



B5 / 10MHz / QPSK/ Mid CH



B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / 64QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



B5 / 10MHz / 16QAM/ High CH



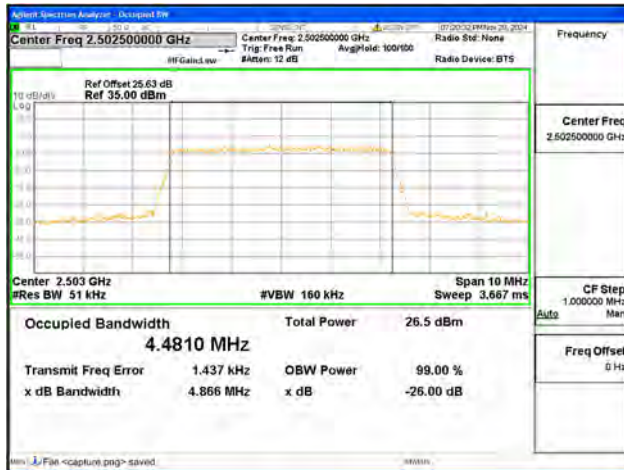
B5 / 10MHz / 64QAM/ High CH



B7 / 5MHz / QPSK/ Low CH



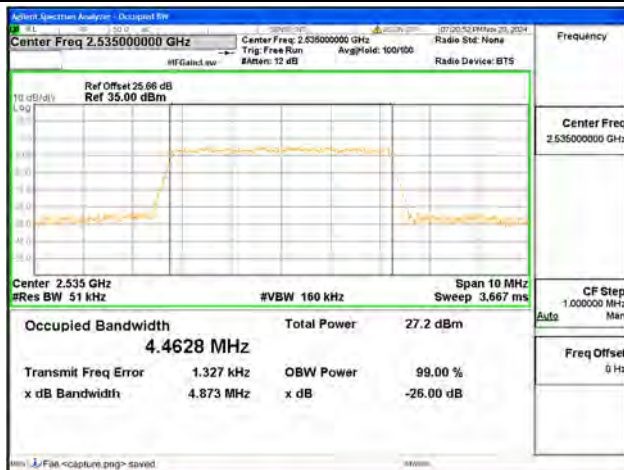
B7 / 5MHz / 16QAM/ Low CH



B7 / 5MHz / 64QAM/ Low CH



B7 / 5MHz / QPSK/ Mid CH



B7 / 5MHz / 16QAM/ Mid CH



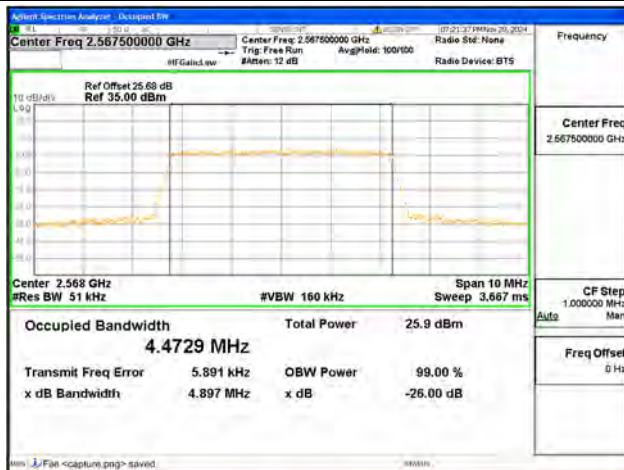
B7 / 5MHz / 64QAM/ Mid CH



B7 / 5MHz / QPSK/ High CH



B7 / 5MHz / 16QAM/ High CH



B7 / 5MHz / 64QAM/ High CH



B7 / 10MHz / QPSK/ Low CH



B7 / 10MHz / 16QAM/ Low CH



B7 / 10MHz / 64QAM/ Low CH



B7 / 10MHz / QPSK/ Mid CH



B7 / 10MHz / 16QAM/ Mid CH



B7 / 10MHz / 64QAM/ Mid CH



B7 / 10MHz / QPSK/ High CH



B7 / 10MHz / 16QAM/ High CH



B7 / 10MHz / 64QAM/ High CH



B7 / 15MHz / QPSK/ Low CH



B7 / 15MHz / 16QAM/ Low CH



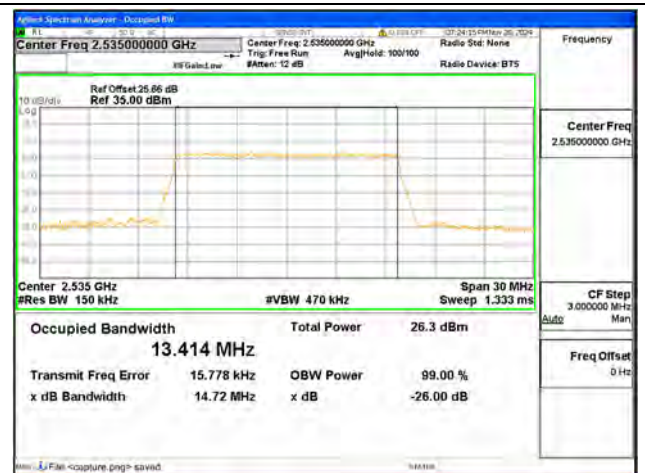
B7 / 15MHz / 64QAM/ Low CH



B7 / 15MHz / QPSK/ Mid CH



B7 / 15MHz / 16QAM/ Mid CH



B7 / 15MHz / 64QAM/ Mid CH



B7 / 15MHz / QPSK/ High CH



B7 / 15MHz / 16QAM/ High CH



B7 / 15MHz / 64QAM/ High CH



B7 / 20MHz / QPSK/ Low CH



B7 / 20MHz / 16QAM/ Low CH



B7 / 20MHz / 64QAM/ Low CH



B7 / 20MHz / QPSK/ Mid CH



B7 / 20MHz / 16QAM/ Mid CH



B7 / 20MHz / 64QAM/ Mid CH



B7 / 20MHz / QPSK/ High CH



B7 / 20MHz / 16QAM/ High CH



B7 / 20MHz / 64QAM/ High CH



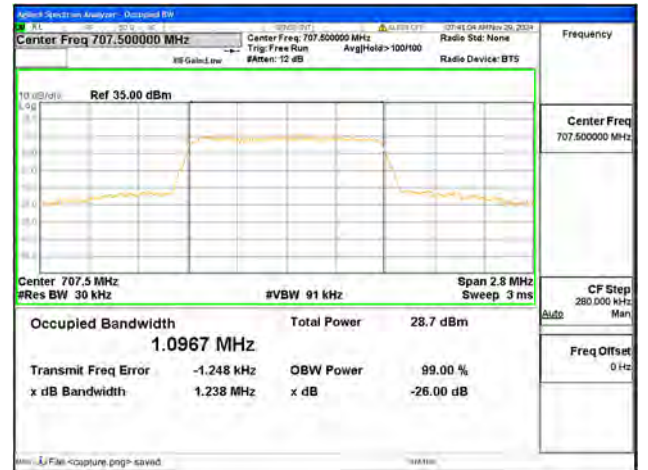
B12 / 1.4MHz / QPSK/ Low CH



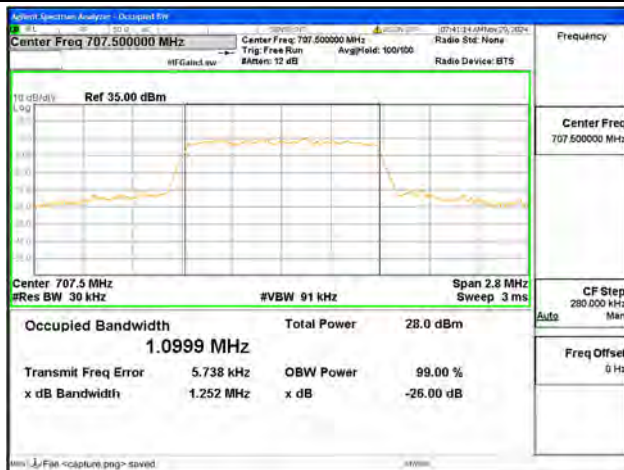
B12 / 1.4MHz / 16QAM/ Low CH



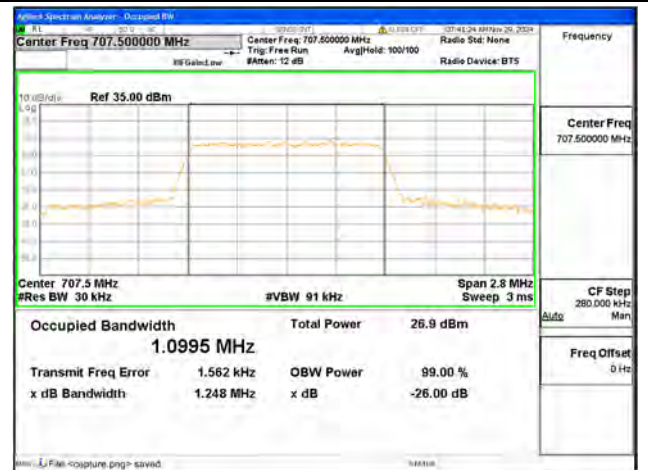
B12 / 1.4MHz / 64QAM/ Low CH



B12 / 1.4MHz / QPSK/ Mid CH



B12 / 1.4MHz / 16QAM/ Mid CH



B12 / 1.4MHz / 64QAM/ Mid CH



B12 / 1.4MHz / QPSK/ High CH



B12 / 1.4MHz / 16QAM/ High CH



B12 / 1.4MHz / 64QAM/ High CH



B12 / 3MHz / QPSK/ Low CH



B12 / 3MHz / 16QAM/ Low CH



B12 / 3MHz / 64QAM/ Low CH



B12 / 3MHz / QPSK/ Mid CH



B12 / 3MHz / 16QAM/ Mid CH



B12 / 3MHz / 64QAM/ Mid CH



B12 / 3MHz / QPSK/ High CH



B12 / 3MHz / 16QAM/ High CH



B12 / 3MHz / 64QAM/ High CH



B12 / 5MHz / QPSK/ Low CH



B12 / 5MHz / 16QAM/ Low CH



B12 / 5MHz / 64QAM/ Low CH



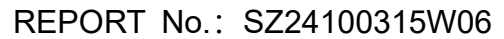
B12 / 5MHz / QPSK/ Mid CH



B12 / 5MHz / 16QAM/ Mid CH



B12 / 5MHz / 64QAM/ Mid CH





B12 / 10MHz / QPSK/ Mid CH



B12 / 10MHz / 16QAM/ Mid CH



B12 / 10MHz / 64QAM/ Mid CH



B12 / 10MHz / QPSK/ High CH



B12 / 10MHz / 16QAM/ High CH



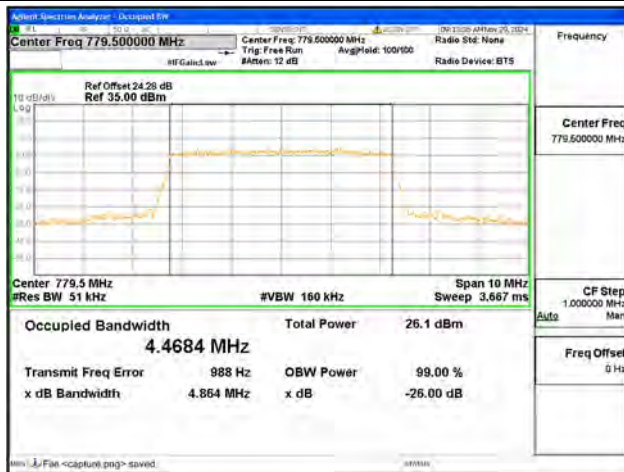
B12 / 10MHz / 64QAM/ High CH



B13 / 5MHz / QPSK/ Low CH



B13 / 5MHz / 16QAM/ Low CH



B13 / 5MHz / 64QAM/ Low CH



B13 / 5MHz / QPSK/ Mid CH



B13 / 5MHz / 16QAM/ Mid CH



B13 / 5MHz / 64QAM/ Mid CH



B13 / 5MHz / QPSK/ High CH



B13 / 5MHz / 16QAM/ High CH



B13 / 5MHz / 64QAM/ High CH



B13 / 10MHz / QPSK/ Mid CH



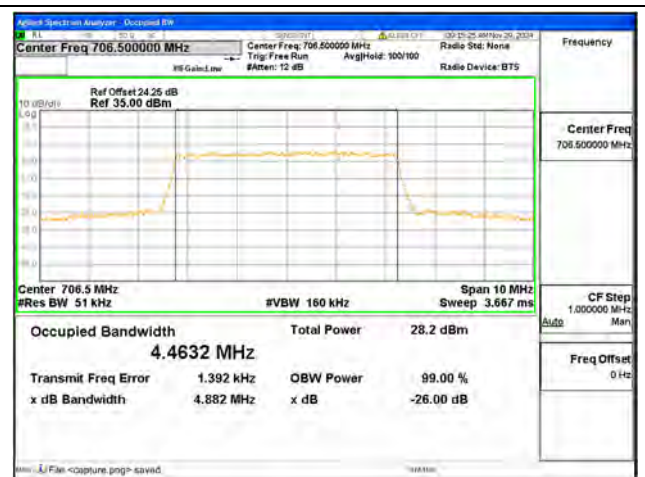
B13 / 10MHz / 16QAM/ Mid CH



B13 / 10MHz / 64QAM/ Mid CH



B17 / 5MHz / QPSK/ Low CH



B17 / 5MHz / 16QAM/ Low CH



B17 / 5MHz / 64QAM/ Low CH



B17 / 5MHz / QPSK/ Mid CH



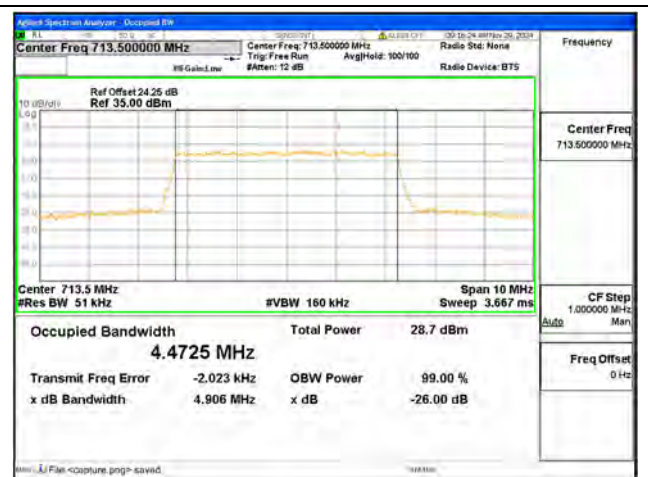
B17 / 5MHz / 16QAM/ Mid CH



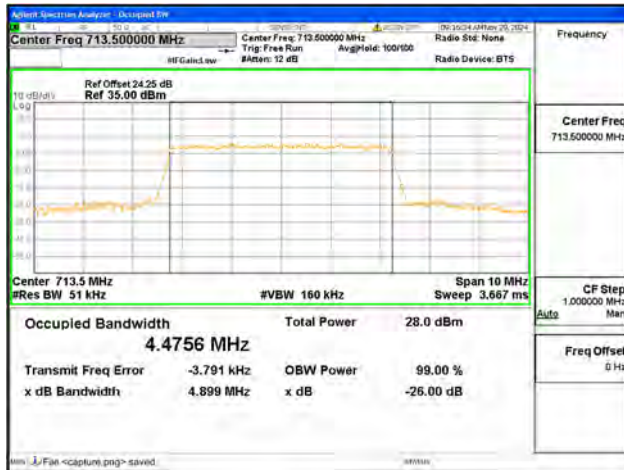
B17 / 5MHz / 64QAM/ Mid CH



B17 / 5MHz / QPSK/ High CH



B17 / 5MHz / 16QAM/ High CH



B17 / 5MHz / 64QAM/ High CH



B17 / 10MHz / QPSK/ Low CH



B17 / 10MHz / 16QAM/ Low CH



B17 / 10MHz / 64QAM/ Low CH



B17 / 10MHz / QPSK/ Mid CH



B17 / 10MHz / 16QAM/ Mid CH



B17 / 10MHz / 64QAM/ Mid CH



B17 / 10MHz / QPSK/ High CH



B17 / 10MHz / 16QAM/ High CH



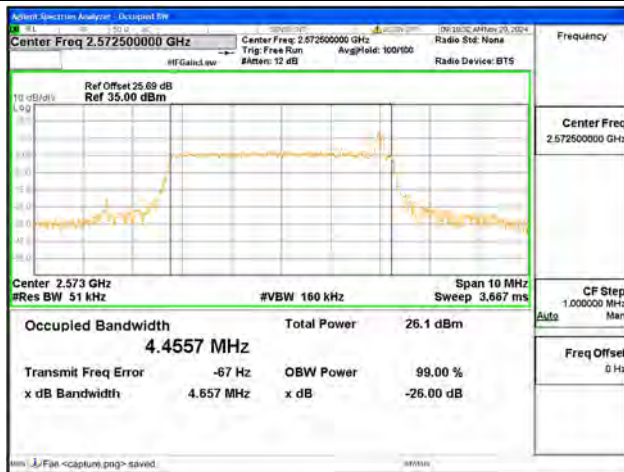
B17 / 10MHz / 64QAM/ High CH



B38 / 5MHz / QPSK/ Low CH



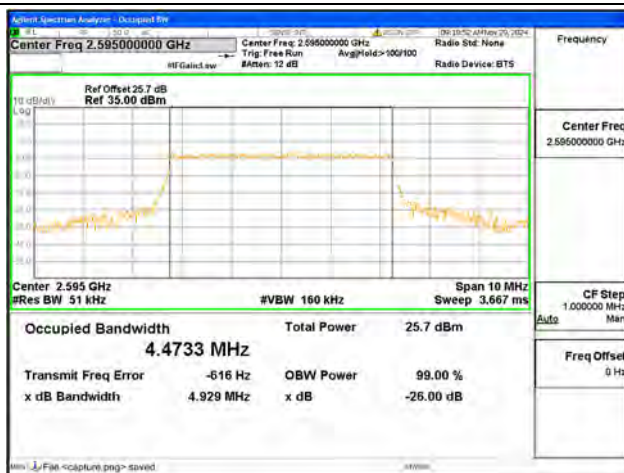
B38 / 5MHz / 16QAM/ Low CH



B38 / 5MHz / 64QAM/ Low CH



B38 / 5MHz / QPSK/ Mid CH



B38 / 5MHz / 16QAM/ Mid CH



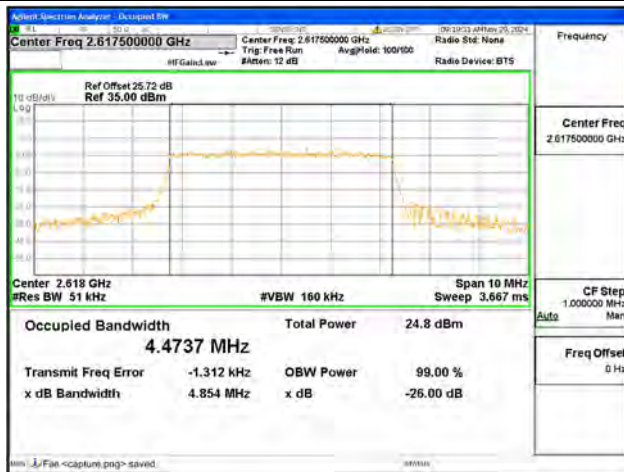
B38 / 5MHz / 64QAM/ Mid CH



B38 / 5MHz / QPSK/ High CH



B38 / 5MHz / 16QAM/ High CH



B38 / 5MHz / 64QAM/ High CH



B38 / 10MHz / QPSK/ Low CH



B38 / 10MHz / 16QAM/ Low CH



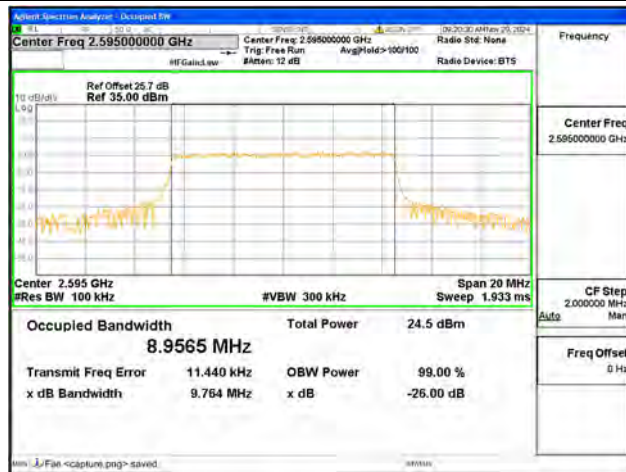
B38 / 10MHz / 64QAM/ Low CH



B38 / 10MHz / QPSK/ Mid CH



B38 / 10MHz / 16QAM/ Mid CH



B38 / 10MHz / 64QAM/ Mid CH



B38 / 10MHz / QPSK/ High CH



B38 / 10MHz / 16QAM/ High CH



B38 / 10MHz / 64QAM/ High CH



B38 / 15MHz / QPSK/ Low CH



B38 / 15MHz / 16QAM/ Low CH



B38 / 15MHz / 64QAM/ Low CH



B38 / 15MHz / 16QAM/ Mid CH



B38 / 15MHz / 64QAM/ Mid CH



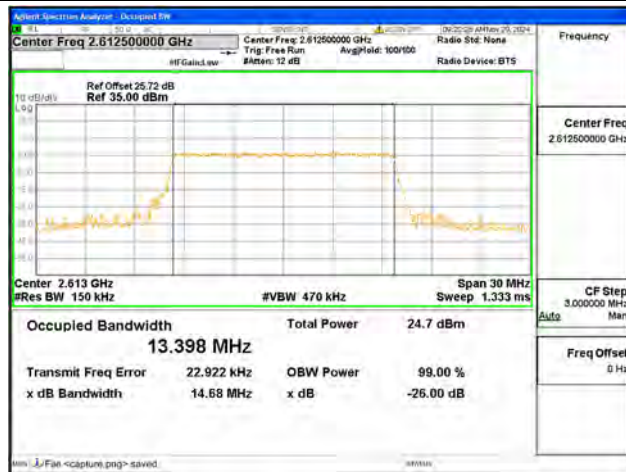
B38 / 15MHz / QPSK/ Mid CH



B38 / 15MHz / QPSK/ High CH



B38 / 15MHz / 16QAM/ High CH



B38 / 15MHz / 64QAM/ High CH



B38 / 20MHz / QPSK/ Low CH



B38 / 20MHz / 16QAM/ Low CH



B38 / 20MHz / 64QAM/ Low CH



B38 / 20MHz / QPSK/ Mid CH



B38 / 20MHz / 16QAM/ Mid CH



B38 / 20MHz / 64QAM/ Mid CH



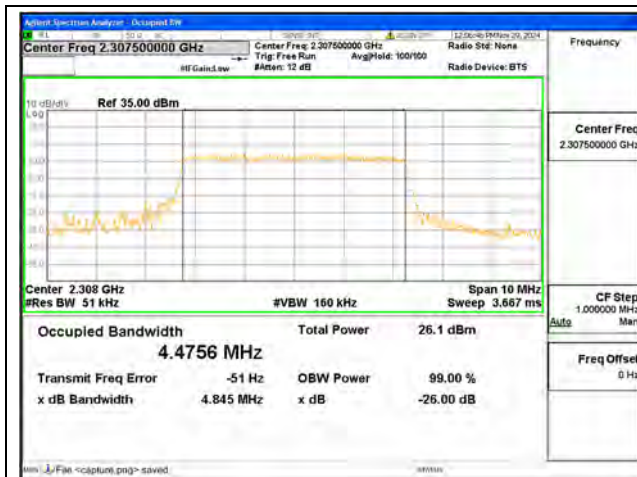
B38 / 20MHz / QPSK/ High CH



B38 / 20MHz / 16QAM/ High CH



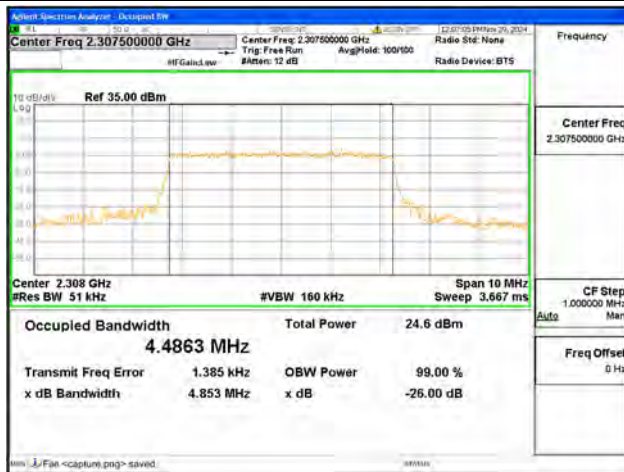
B38 / 20MHz / 64QAM/ High CH



B40-1 / 5MHz / QPSK/ Low CH



B40-1 / 5MHz / 16QAM/ Low CH



B40-1 / 5MHz / 64QAM/ Low CH



B40-1 / 5MHz / QPSK/ Mid CH



B40-1 / 5MHz / 16QAM/ Mid CH



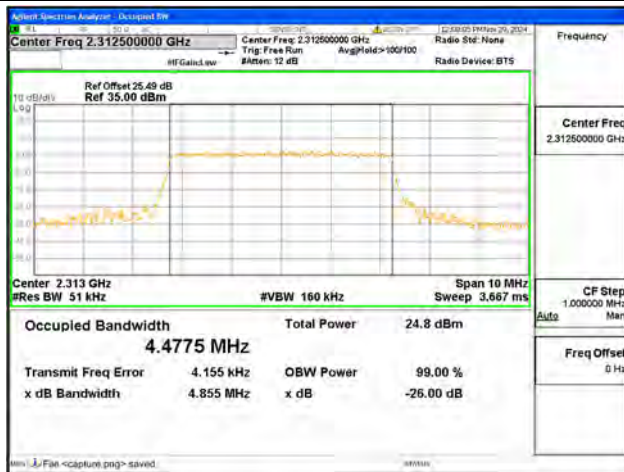
B40-1 / 5MHz / 64QAM/ Mid CH



B40-1 / 5MHz / QPSK/ High CH



B40-1 / 5MHz / 16QAM/ High CH



B40-1 / 5MHz / 64QAM/ High CH



B40-1 / 10MHz / QPSK/ Mid CH



B40-1 / 10MHz / 16QAM/ Mid CH



B40-1 / 10MHz / 64QAM/ Mid CH



B40-2 / 5MHz / QPSK/ Low CH



B40-2 / 5MHz / 16QAM/ Low CH



B40-2 / 5MHz / 64QAM/ Low CH



B40-2 / 5MHz / QPSK/ Mid CH



B40-2 / 5MHz / 16QAM/ Mid CH



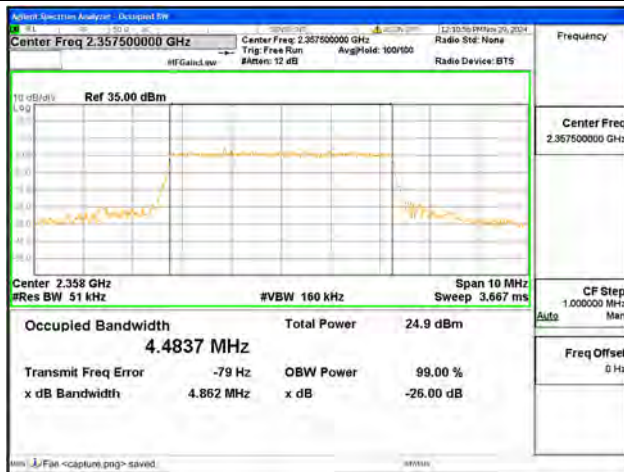
B40-2 / 5MHz / 64QAM/ Mid CH



B40-2 / 5MHz / QPSK/ High CH



B40-2 / 5MHz / 16QAM/ High CH



B40-2 / 5MHz / 64QAM/ High CH



B40-2 / 10MHz / QPSK/ Mid CH



B40-2 / 10MHz / 16QAM/ Mid CH



B40-2 / 10MHz / 64QAM/ Mid CH



B66 / 1.4MHz / QPSK/ Low CH



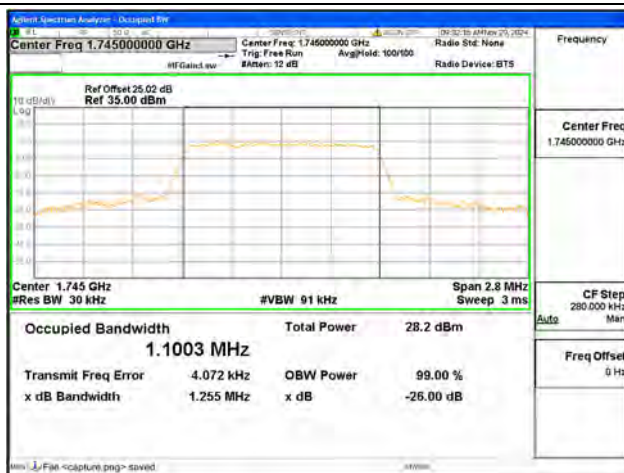
B66 / 1.4MHz / 16QAM/ Low CH



B66 / 1.4MHz / 64QAM/ Low CH



B66 / 1.4MHz / QPSK/ Mid CH



B66 / 1.4MHz / 16QAM/ Mid CH



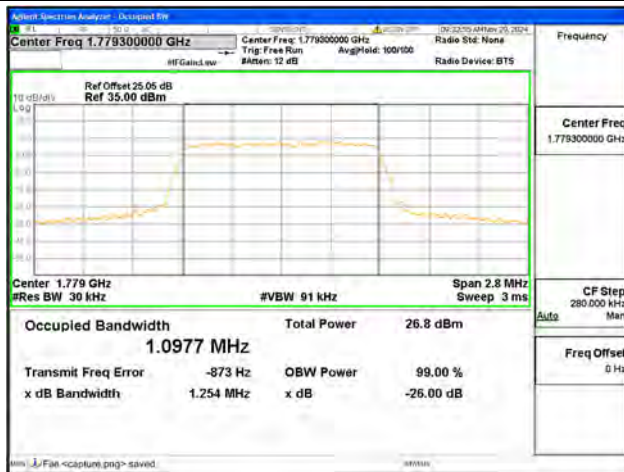
B66 / 1.4MHz / 64QAM/ Mid CH



B66 / 1.4MHz / QPSK/ High CH



B66 / 1.4MHz / 16QAM/ High CH



B66 / 1.4MHz / 64QAM/ High CH



B66 / 3MHz / QPSK/ Low CH



B66 / 3MHz / 16QAM/ Low CH



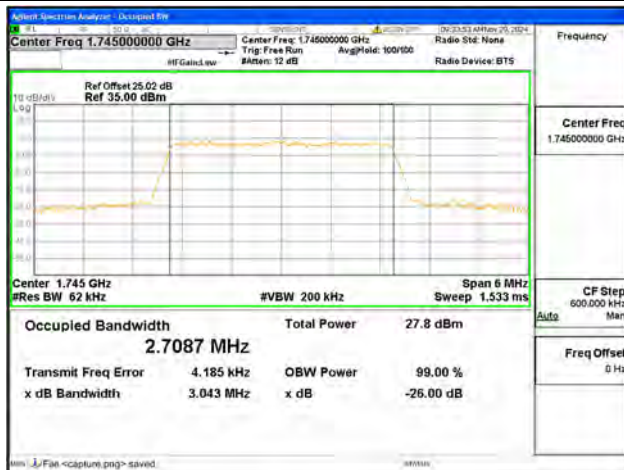
B66 / 3MHz / 64QAM/ Low CH



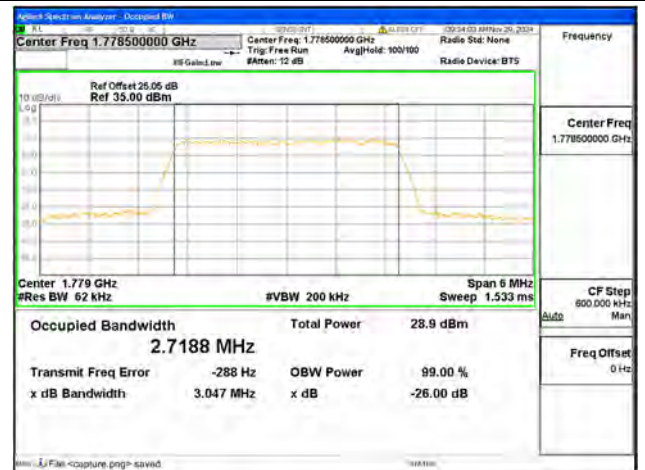
B66 / 3MHz / QPSK/ Mid CH



B66 / 3MHz / 16QAM/ Mid CH



B66 / 3MHz / 64QAM/ Mid CH



B66 / 3MHz / QPSK/ High CH



B66 / 3MHz / 16QAM/ High CH



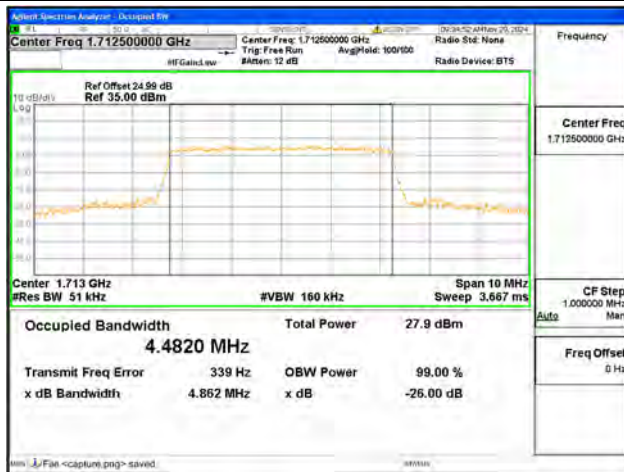
B66 / 3MHz / 64QAM/ High CH



B66 / 5MHz / QPSK/ Low CH



B66 / 5MHz / 16QAM/ Low CH



B66 / 5MHz / 64QAM/ Low CH



B66 / 5MHz / QPSK/ Mid CH



B66 / 5MHz / 16QAM/ Mid CH



B66 / 5MHz / 64QAM/ Mid CH



B66 / 5MHz / QPSK/ High CH



B66 / 5MHz / 16QAM/ High CH



B66 / 5MHz / 64QAM/ High CH



B66 / 10MHz / QPSK/ Low CH



B66 / 10MHz / 16QAM/ Low CH



B66 / 10MHz / 64QAM/ Low CH



B66 / 10MHz / QPSK/ Mid CH



B66 / 10MHz / 16QAM/ Mid CH



B66 / 10MHz / 64QAM/ Mid CH



B66 / 10MHz / QPSK/ High CH



B66 / 10MHz / 16QAM/ High CH



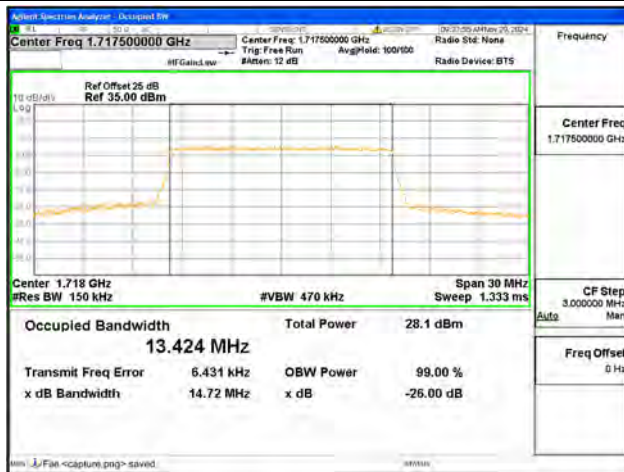
B66 / 10MHz / 64QAM/ High CH



B66 / 15MHz / QPSK/ Low CH



B66 / 15MHz / 16QAM/ Low CH



B66 / 15MHz / 64QAM/ Low CH



B66 / 15MHz / 16QAM/ Mid CH



B66 / 15MHz / 64QAM/ Mid CH



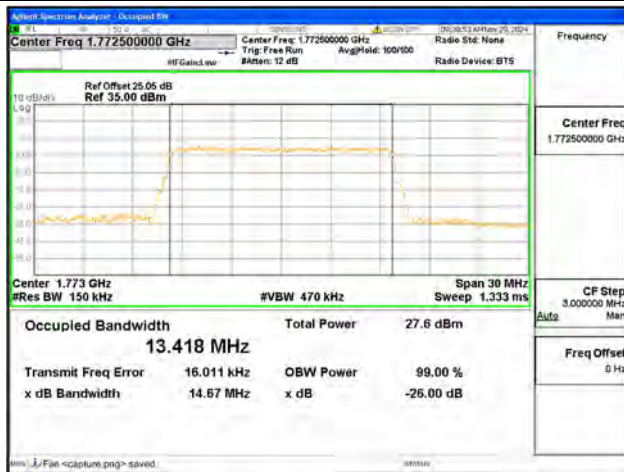
B66 / 15MHz / QPSK/ Mid CH



B66 / 15MHz / QPSK/ High CH



B66 / 15MHz / 16QAM/ High CH



B66 / 15MHz / 64QAM/ High CH



B66 / 20MHz / QPSK/ Low CH



B66 / 20MHz / 16QAM/ Low CH



B66 / 20MHz / 64QAM/ Low CH



B66 / 20MHz / QPSK/ Mid CH



B66 / 20MHz / 16QAM/ Mid CH



B66 / 20MHz / 64QAM/ Mid CH



B66 / 20MHz / QPSK/ High CH



B66 / 20MHz / 16QAM/ High CH



B66 / 20MHz / 64QAM/ High CH

2.3. Frequency Stability

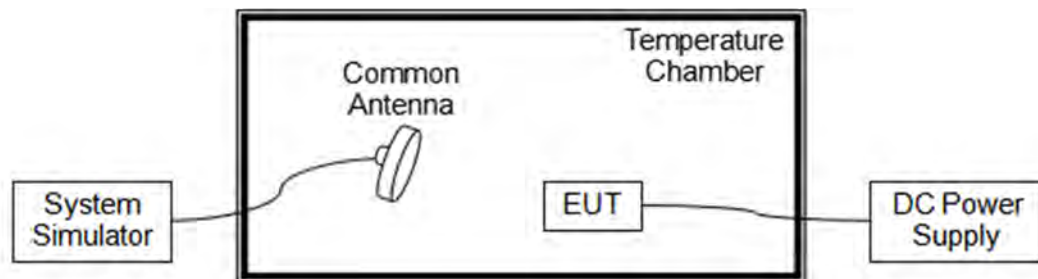
2.3.1. Requirement

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

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

Note: The operating temperature of EUT is from -10°C to 55°C , which are specified by the applicant.

2.3.2. Test Description



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

2.3.3. Test Procedure

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

**2.3.4. Test Result**

The nominal, highest and lowest extreme voltages are separately 3.85V, 4.40V and 3.40V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, 64QAM, Channel 18900, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	1	0.001	PASS
Normal		-10	19	0.010	
Normal		0	14	0.007	
Normal		+10	18	0.010	
Normal		+20	15	0.008	
Normal		+30	-2	-0.001	
Normal		+40	15	0.008	
Normal		+50	-23	-0.012	
Normal		+55	5	0.003	
High	4.40	+20	16	0.009	
BATT.ENDPOINT	3.40	+20	-22	-0.012	

LTE Band 4, 64QAM, Channel 20175, Frequency 1732.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	14	0.008	PASS
Normal		-10	20	0.012	
Normal		0	16	0.009	
Normal		+10	17	0.010	
Normal		+20	-8	-0.005	
Normal		+30	18	0.010	
Normal		+40	17	0.010	
Normal		+50	1	0.001	
Normal		+55	15	0.009	
High	4.40	+20	5	0.003	
BATT.ENDPOINT	3.40	+20	18	0.010	



LTE Band 5, 64QAM, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	13	0.016	PASS
Normal		-10	-1	-0.001	
Normal		0	17	0.020	
Normal		+10	-5	-0.006	
Normal		+20	15	0.018	
Normal		+30	-17	-0.020	
Normal		+40	20	0.024	
Normal		+50	23	0.027	
Normal		+55	-15	-0.018	
High	4.40	+20	20	0.024	PASS
BATT.ENDPOINT	3.40	+20	-12	-0.014	

LTE Band 7, 64QAM, Channel 21100, Frequency 2535.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	18	0.007	PASS
Normal		-10	18	0.007	
Normal		0	-12	-0.005	
Normal		+10	20	0.008	
Normal		+20	-6	-0.002	
Normal		+30	20	0.008	
Normal		+40	-15	-0.006	
Normal		+50	8	0.003	
Normal		+55	16	0.006	
High	4.40	+20	23	0.009	PASS
BATT.ENDPOINT	3.40	+20	21	0.008	



LTE Band 12, 64QAM, Channel 23095, Frequency 707.5MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	19	0.027	PASS
Normal		-10	12	0.017	
Normal		0	16	0.023	
Normal		+10	14	0.020	
Normal		+20	15	0.021	
Normal		+30	17	0.024	
Normal		+40	5	0.007	
Normal		+50	20	0.028	
Normal		+55	1	0.001	
High	4.40	+20	14	0.020	
BATT.ENDPOINT	3.40	+20	14	0.020	

LTE Band 13, 64QAM, Channel 23230, Frequency 782MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	18	0.023	PASS
Normal		-10	5	0.006	
Normal		0	16	0.020	
Normal		+10	-18	-0.023	
Normal		+20	7	0.009	
Normal		+30	15	0.019	
Normal		+40	-16	-0.020	
Normal		+50	-5	-0.006	
Normal		+55	20	0.026	
High	4.40	+20	12	0.015	
BATT.ENDPOINT	3.40	+20	13	0.017	



LTE Band 17, 64QAM, Channel 23790, Frequency 710.0MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	10	0.014	PASS
Normal		-10	19	0.027	
Normal		0	10	0.014	
Normal		+10	16	0.023	
Normal		+20	11	0.015	
Normal		+30	14	0.020	
Normal		+40	22	0.031	
Normal		+50	-6	-0.008	
Normal		+55	18	0.025	
High	4.40	+20	16	0.023	
BATT.ENDPOINT	3.40	+20	16	0.023	

LTE Band 38, 64QAM, Channel 38000, Frequency 2595MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	15	0.006	PASS
Normal		-10	0	0.000	
Normal		0	20	0.008	
Normal		+10	14	0.005	
Normal		+20	-12	-0.005	
Normal		+30	19	0.007	
Normal		+40	18	0.007	
Normal		+50	-12	-0.005	
Normal		+55	13	0.005	
High	4.40	+20	0	0.000	
BATT.ENDPOINT	3.40	+20	18	0.007	