



# TEST REPORT

**APPLICANT** : BLU Products, Inc.

**PRODUCT NAME** : Smart Phone

**MODEL NAME** : J9L

**BRAND NAME** : BLU

**FCC ID** : YHLBLUJ9L92

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

**RECEIPT DATE** : 2022-01-14

**TEST DATE** : 2022-01-19 to 2022-02-24

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Change History		
Version	Date	Reason for change
1.0	2022-03-04	First edition



# 1. Technical Information

Note: Provide by applicant.

## 1.1. Applicant and Manufacturer Information

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

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Smart Phone	
<b>Sample No.:</b>	5#	
<b>Hardware Version:</b>	FS293-MB-V4.0	
<b>Software Version:</b>	BLU_J0092WW_V11.0.G.01.01_GENERIC_30-12-2021_1850	
<b>Modulation Type:</b>	QPSK, 16QAM, 64QAM	
<b>Carrier Aggregation:</b>	Not Support	
<b>Operation Band:</b>	Band 2 / 4 / 5 / 7 / 12 / 17 / 66	
<b>Frequency Range:</b>	LTE Band 2	Tx: 1850MHz–1910MHz
		Rx: 1930MHz–1990MHz
	LTE Band 4	Tx: 1710MHz–1755MHz
		Rx: 2110MHz–2155MHz
	LTE Band 5	Tx: 824MHz–849MHz
		Rx: 869MHz–894MHz
	LTE Band 7	Tx: 2500MHz–2570MHz
		Rx: 2620MHz–2690MHz
	LTE Band 12	Tx: 699MHz - 716MHz
		Rx: 729MHz – 746MHz
	LTE Band 17	Tx: 704MHz - 716MHz
		Rx: 734MHz – 746MHz
	LTE Band 66	Tx: 1710MHz –1780MHz
		Rx: 2110MHz –2200MHz



<b>Channel Bandwidth:</b>	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 12	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 17	5 MHz, 10MHz
	LTE Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
<b>Antenna Type:</b>	Fixed Internal Antenna	
<b>Antenna Gain:</b>	LTE Band 2	1.18dBi
	LTE Band 4	0.90dBi
	LTE Band 5	-0.98dBi
	LTE Band 7	1.35dBi
	LTE Band 12	-1.74dBi
	LTE Band 17	-1.71dBi
	LTE Band 66	0.84dBi
<b>Accessory Information:</b>	Battery	
	Brand Name:	BLU
	Model No.:	C906648300L
	Serial No.:	N/A
	Capacity:	3000mAh
	Rated Voltage:	3.7V
	Charge Limit:	4.2V
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-AR-1000
	Serial No.:	N/A
	Rated Output:	5.0V $\pm$ 1000mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.2A
	Manufacturer:	Shenzhen Zhongfuxin Technology 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

<b>LTE Band 2</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.249	0.211	0.213	18M0G7D	18M1W7D	18M1W7D	
15	0.248	0.209	0.210	13M5G7D	13M5W7D	13M5W7D	
10	0.247	0.208	0.208	9M03G7D	8M99W7D	9M00W7D	
5	0.245	0.207	0.209	4M50G7D	4M50W7D	4M49W7D	
3	0.243	0.205	0.207	2M71G7D	2M71W7D	2M72W7D	
1.4	0.245	0.210	0.211	1M10G7D	1M10W7D	1M10W7D	
<b>LTE Band 4</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.239	0.194	0.204	18M0G7D	18M0W7D	18M0W7D	
15	0.238	0.192	0.203	13M5G7D	13M5W7D	13M5W7D	
10	0.236	0.191	0.201	9M02G7D	8M98W7D	9M01W7D	
5	0.237	0.192	0.202	4M49G7D	4M49W7D	4M49W7D	
3	0.233	0.189	0.199	2M72G7D	2M71W7D	2M72W7D	
1.4	0.235	0.190	0.200	1M10G7D	1M10W7D	1M10W7D	
<b>LTE Band 5</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.086	0.074	0.076	9M02G7D	8M98W7D	8M99W7D	
5	0.085	0.074	0.075	4M49G7D	4M50W7D	4M49W7D	
3	0.085	0.074	0.075	2M71G7D	2M71W7D	2M72W7D	
1.4	0.083	0.073	0.075	1M10G7D	1M10W7D	1M10W7D	
<b>LTE Band 7</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.234	0.212	0.213	18M0G7D	18M0W7D	18M0W7D	
15	0.232	0.208	0.211	13M5G7D	13M5W7D	13M5W7D	
10	0.231	0.208	0.210	9M03G7D	8M98W7D	9M01W7D	
5	0.233	0.209	0.212	4M50G7D	4M50W7D	4M49W7D	
<b>LTE Band 12</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.072	0.057	0.056	9M04G7D	9M00W7D	9M01W7D	
5	0.072	0.057	0.058	4M50G7D	4M50W7D	4M50W7D	
3	0.071	0.056	0.057	2M71G7D	2M71W7D	2M72W7D	
1.4	0.071	0.057	0.057	1M10G7D	1M10W7D	1M10W7D	



<b>LTE Band 17</b>	<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.072	0.057	0.056	9M03G7D	8M98W7D	9M00W7D
5	0.071	0.056	0.056	4M50G7D	4M50W7D	4M49W7D
<b>LTE Band 66</b>	<b>Maximum E.R.P./E.I.R.P. (W)</b>			<b>Emission Designator (99%OBW)</b>		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.219	0.191	0.201	18M0G7D	18M0W7D	18M0W7D
15	0.216	0.191	0.201	13M5G7D	13M5W7D	13M5W7D
10	0.218	0.191	0.200	9M00G7D	8M98W7D	9M11W7D
5	0.213	0.187	0.196	4M51G7D	4M59W7D	4M50W7D
3	0.214	0.187	0.197	2M71G7D	2M72W7D	2M72W7D
1.4	0.216	0.189	0.198	1M10G7D	1M10W7D	1M10W7D



## 1.4. Test Standards and Results

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

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

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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046 22.913(a)(2) 24.232(c) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Jan 20, 2022 Feb 24, 2022	Chen Hao Li Huaijie	PASS	No deviation
2.1049	Occupied Bandwidth	Jan 19, 2022	Li Huaijie	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Jan 26, 2022	Li Huaijie	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Jan 26, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Jan 19, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(g)	Band Edge	Jan 19, 2022	Li Huaijie	PASS	No deviation



27.53(h) 27.53(m)(4)					
2.1051 22.917(a) 24.238(a) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Jan 29, 2022	Lin Jiayong	PASS	No deviation

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

**Note 2:** The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.

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

**Note 4:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% 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 H&L&M Requirements**

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

#### **2.1.1. Requirement**

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

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

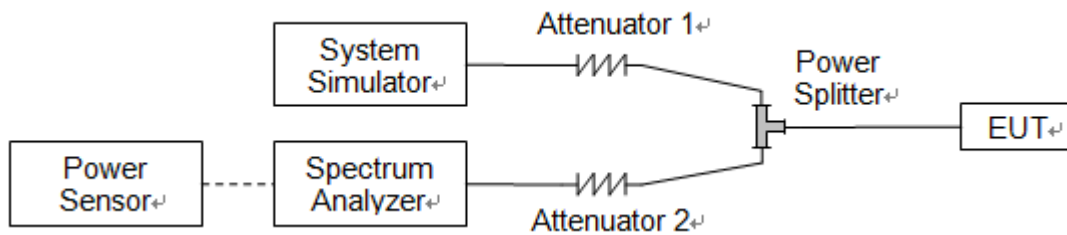
According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

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

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

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

### 2.1.2. Test Description



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

### 2.1.3. Test Procedure

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

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

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



2.1.4. Result

Conducted Output Power:

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.50	22.78	22.68
20	QPSK	1	49	22.58	22.69	22.74
20	QPSK	1	99	22.69	22.71	22.73
20	QPSK	50	0	21.87	22.08	22.02
20	QPSK	50	24	21.79	21.89	21.86
20	QPSK	50	50	21.84	21.97	21.93
20	QPSK	100	0	21.82	21.90	21.98
20	16QAM	1	0	22.06	21.98	21.95
20	16QAM	1	49	21.73	21.80	21.88
20	16QAM	1	99	21.68	21.92	21.75
20	16QAM	50	0	21.05	21.12	21.17
20	16QAM	50	24	20.96	21.09	21.03
20	16QAM	50	50	20.91	21.08	21.01
20	16QAM	100	0	21.08	21.12	21.14
20	64QAM	1	0	21.92	21.70	22.10
20	64QAM	1	49	21.97	21.84	21.86
20	64QAM	1	99	21.83	21.86	21.75
20	64QAM	50	0	21.07	21.15	21.14
20	64QAM	50	24	21.13	21.12	20.68
20	64QAM	50	50	20.95	21.08	20.94
20	64QAM	100	0	21.06	21.17	21.13



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.47	22.76	22.63
15	QPSK	1	37	22.54	22.66	22.69
15	QPSK	1	74	22.65	22.68	22.68
15	QPSK	36	0	21.84	22.00	22.03
15	QPSK	36	20	21.75	21.86	21.80
15	QPSK	36	39	21.80	21.94	21.87
15	QPSK	75	0	21.78	21.87	21.92
15	16QAM	1	0	22.02	21.95	21.89
15	16QAM	1	37	21.70	21.78	21.83
15	16QAM	1	74	21.65	21.90	21.70
15	16QAM	36	0	21.01	21.09	21.12
15	16QAM	36	20	20.92	21.06	20.98
15	16QAM	36	39	20.87	21.05	20.96
15	16QAM	75	0	21.04	21.10	21.09
15	64QAM	1	0	21.89	21.68	22.05
15	64QAM	1	37	21.94	21.82	21.81
15	64QAM	1	74	21.80	21.84	21.70
15	64QAM	36	0	21.04	21.13	21.09
15	64QAM	36	20	21.10	21.10	20.63
15	64QAM	36	39	20.92	21.06	20.89
15	64QAM	75	0	21.03	21.15	21.08



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	22.44	22.74	22.59
10	QPSK	1	25	22.52	22.66	22.65
10	QPSK	1	49	22.63	22.67	22.64
10	QPSK	25	0	21.81	21.99	21.99
10	QPSK	25	12	21.73	21.85	21.77
10	QPSK	25	25	21.79	21.94	21.84
10	QPSK	50	0	21.77	21.87	21.89
10	16QAM	1	0	22.00	21.94	21.86
10	16QAM	1	25	21.67	21.76	21.79
10	16QAM	1	49	21.62	21.88	21.66
10	16QAM	25	0	20.99	21.09	21.09
10	16QAM	25	12	20.90	21.06	20.95
10	16QAM	25	25	20.85	21.05	20.93
10	16QAM	50	0	21.02	21.08	21.05
10	64QAM	1	0	21.86	21.66	22.01
10	64QAM	1	25	21.91	21.80	21.77
10	64QAM	1	49	21.77	21.82	21.66
10	64QAM	25	0	21.01	21.11	21.05
10	64QAM	25	12	21.07	21.08	20.69
10	64QAM	25	25	20.89	21.04	20.85
10	64QAM	50	0	21.00	21.13	21.04



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	22.42	22.71	22.60
5	QPSK	1	12	22.50	22.62	22.66
5	QPSK	1	24	22.62	22.65	22.65
5	QPSK	12	0	21.80	21.96	22.00
5	QPSK	12	7	21.71	21.82	21.78
5	QPSK	12	13	21.76	21.90	21.85
5	QPSK	25	0	21.74	21.83	21.90
5	16QAM	1	0	21.99	21.92	21.87
5	16QAM	1	12	21.66	21.74	21.80
5	16QAM	1	24	21.61	21.86	21.67
5	16QAM	12	0	20.98	21.06	21.09
5	16QAM	12	7	20.88	21.02	20.95
5	16QAM	12	13	20.83	21.01	20.93
5	16QAM	25	0	21.00	21.06	21.07
5	64QAM	1	0	21.84	21.64	22.03
5	64QAM	1	12	21.89	21.78	21.79
5	64QAM	1	24	21.75	21.79	21.67
5	64QAM	12	0	20.99	21.08	21.06
5	64QAM	12	7	21.05	21.05	20.60
5	64QAM	12	13	20.87	21.01	20.86
5	64QAM	25	0	20.98	21.10	21.05



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	22.37	22.67	22.55
3	QPSK	1	8	22.45	22.58	22.61
3	QPSK	1	14	22.56	22.60	22.60
3	QPSK	8	0	21.75	21.92	21.95
3	QPSK	8	4	21.66	21.78	21.73
3	QPSK	8	7	21.71	21.87	21.81
3	QPSK	15	0	21.69	21.79	21.85
3	16QAM	1	0	21.94	21.88	21.82
3	16QAM	1	8	21.60	21.69	21.75
3	16QAM	1	14	21.55	21.81	21.62
3	16QAM	8	0	20.92	21.01	21.04
3	16QAM	8	4	20.83	20.98	20.90
3	16QAM	8	7	20.79	20.97	20.88
3	16QAM	15	0	20.95	21.01	21.01
3	64QAM	1	0	21.79	21.59	21.98
3	64QAM	1	8	21.84	21.73	21.73
3	64QAM	1	14	21.70	21.75	21.62
3	64QAM	8	0	20.94	21.04	21.01
3	64QAM	8	4	21.00	21.01	20.55
3	64QAM	8	7	20.82	20.97	20.81
3	64QAM	15	0	20.93	21.06	21.00



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	22.48	22.71	22.65
1.4	QPSK	1	3	22.56	22.62	22.70
1.4	QPSK	1	5	22.67	22.64	22.70
1.4	QPSK	3	0	21.85	21.95	22.05
1.4	QPSK	3	1	21.77	21.82	21.83
1.4	QPSK	3	3	21.82	21.90	21.90
1.4	QPSK	6	0	21.80	21.83	21.95
1.4	16QAM	1	0	22.04	21.91	21.92
1.4	16QAM	1	3	21.71	21.73	21.85
1.4	16QAM	1	5	21.66	21.85	21.72
1.4	16QAM	3	0	21.03	21.05	21.14
1.4	16QAM	3	1	20.94	21.02	21.00
1.4	16QAM	3	3	20.89	21.01	20.98
1.4	16QAM	6	0	21.06	21.05	21.11
1.4	64QAM	1	0	21.90	21.63	22.07
1.4	64QAM	1	3	21.95	21.77	21.83
1.4	64QAM	1	5	21.81	21.79	21.72
1.4	64QAM	3	0	21.05	21.08	21.11
1.4	64QAM	3	1	21.11	21.05	20.65
1.4	64QAM	3	3	20.93	21.01	20.91
1.4	64QAM	6	0	21.04	21.04	21.10





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	22.87	22.89	22.51
20	QPSK	1	49	22.79	22.79	22.63
20	QPSK	1	99	22.70	22.76	22.60
20	QPSK	50	0	21.99	22.04	22.07
20	QPSK	50	24	21.92	21.93	21.83
20	QPSK	50	50	21.98	21.91	21.94
20	QPSK	100	0	21.91	22.05	22.01
20	16QAM	1	0	21.90	21.95	21.85
20	16QAM	1	49	21.71	21.92	21.75
20	16QAM	1	99	21.84	21.97	21.73
20	16QAM	50	0	21.07	21.02	21.13
20	16QAM	50	24	20.96	21.12	20.98
20	16QAM	50	50	20.73	21.06	20.87
20	16QAM	100	0	21.16	21.39	21.24
20	64QAM	1	0	22.17	22.17	22.05
20	64QAM	1	49	21.93	22.11	21.94
20	64QAM	1	99	21.73	22.20	21.88
20	64QAM	50	0	21.23	21.13	21.03
20	64QAM	50	24	20.76	21.05	20.81
20	64QAM	50	50	20.83	21.18	20.92
20	64QAM	100	0	20.92	21.08	21.00



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	22.82	22.86	22.50
15	QPSK	1	37	22.75	22.77	22.54
15	QPSK	1	74	22.65	22.73	22.51
15	QPSK	36	0	21.94	22.02	21.99
15	QPSK	36	20	21.87	21.90	21.74
15	QPSK	36	39	21.93	21.88	21.85
15	QPSK	75	0	21.86	22.02	21.92
15	16QAM	1	0	21.85	21.92	21.76
15	16QAM	1	37	21.67	21.90	21.66
15	16QAM	1	74	21.79	21.94	21.64
15	16QAM	36	0	21.02	20.99	21.04
15	16QAM	36	20	20.91	21.10	20.90
15	16QAM	36	39	20.68	21.03	20.78
15	16QAM	75	0	21.11	21.36	21.15
15	64QAM	1	0	22.12	22.14	21.96
15	64QAM	1	37	21.88	22.08	21.85
15	64QAM	1	74	21.68	22.17	21.79
15	64QAM	36	0	21.18	21.10	20.94
15	64QAM	36	20	20.71	21.02	20.72
15	64QAM	36	39	20.78	21.15	20.83
15	64QAM	75	0	20.87	21.05	20.91



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	22.80	22.83	22.44
10	QPSK	1	25	22.74	22.75	22.56
10	QPSK	1	49	22.63	22.70	22.53
10	QPSK	25	0	21.92	22.00	21.95
10	QPSK	25	12	21.85	21.87	21.76
10	QPSK	25	25	21.91	21.85	21.87
10	QPSK	50	0	21.84	21.99	21.94
10	16QAM	1	0	21.83	21.89	21.78
10	16QAM	1	25	21.64	21.86	21.68
10	16QAM	1	49	21.77	21.91	21.66
10	16QAM	25	0	21.00	20.96	21.06
10	16QAM	25	12	20.89	21.06	20.91
10	16QAM	25	25	20.68	21.02	20.80
10	16QAM	50	0	21.09	21.33	21.17
10	64QAM	1	0	22.10	22.11	21.98
10	64QAM	1	25	21.86	22.05	21.87
10	64QAM	1	49	21.66	22.14	21.83
10	64QAM	25	0	21.16	21.07	20.96
10	64QAM	25	12	20.69	20.99	20.74
10	64QAM	25	25	20.76	21.12	20.85
10	64QAM	50	0	20.85	21.02	20.93



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	22.79	22.85	22.51
5	QPSK	1	12	22.71	22.75	22.50
5	QPSK	1	24	22.63	22.73	22.47
5	QPSK	12	0	21.91	22.01	21.95
5	QPSK	12	7	21.84	21.89	21.70
5	QPSK	12	13	21.90	21.88	21.81
5	QPSK	25	0	21.83	22.01	21.88
5	16QAM	1	0	21.82	21.91	21.72
5	16QAM	1	12	21.64	21.89	21.62
5	16QAM	1	24	21.76	21.93	21.60
5	16QAM	12	0	20.99	20.98	21.00
5	16QAM	12	7	20.88	21.08	20.85
5	16QAM	12	13	20.65	21.03	20.74
5	16QAM	25	0	21.08	21.35	21.11
5	64QAM	1	0	22.09	22.13	21.93
5	64QAM	1	12	21.85	22.07	21.81
5	64QAM	1	24	21.69	22.16	21.75
5	64QAM	12	0	21.15	21.09	20.90
5	64QAM	12	7	20.68	21.01	20.68
5	64QAM	12	13	20.75	21.14	20.79
5	64QAM	25	0	20.84	21.04	20.87



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	22.73	22.78	22.67
3	QPSK	1	8	22.65	22.68	22.59
3	QPSK	1	14	22.56	22.65	22.46
3	QPSK	8	0	21.85	21.94	21.93
3	QPSK	8	4	21.78	21.82	21.69
3	QPSK	8	7	21.84	21.73	21.81
3	QPSK	15	0	21.77	21.94	21.87
3	16QAM	1	0	21.76	21.84	21.71
3	16QAM	1	8	21.57	21.81	21.61
3	16QAM	1	14	21.71	21.87	21.59
3	16QAM	8	0	20.93	20.91	20.99
3	16QAM	8	4	20.82	21.01	20.84
3	16QAM	8	7	20.59	20.95	20.73
3	16QAM	15	0	21.02	21.28	21.10
3	64QAM	1	0	22.03	22.07	21.92
3	64QAM	1	8	21.79	22.00	21.80
3	64QAM	1	14	21.59	22.09	21.74
3	64QAM	8	0	21.09	21.02	20.89
3	64QAM	8	4	20.62	20.94	20.67
3	64QAM	8	7	20.69	21.07	20.78
3	64QAM	15	0	20.78	20.97	20.86



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	22.75	22.81	22.57
1.4	QPSK	1	3	22.67	22.71	22.51
1.4	QPSK	1	5	22.58	22.68	22.48
1.4	QPSK	3	0	21.87	21.96	21.95
1.4	QPSK	3	1	21.80	21.85	21.71
1.4	QPSK	3	3	21.86	21.83	21.82
1.4	QPSK	6	0	21.79	21.97	21.89
1.4	16QAM	1	0	21.78	21.87	21.73
1.4	16QAM	1	3	21.59	21.84	21.63
1.4	16QAM	1	5	21.72	21.89	21.61
1.4	16QAM	3	0	20.95	20.94	21.01
1.4	16QAM	3	1	20.84	21.04	20.86
1.4	16QAM	3	3	20.61	20.98	20.75
1.4	16QAM	6	0	21.04	21.31	21.12
1.4	64QAM	1	0	22.05	22.09	21.93
1.4	64QAM	1	3	21.81	22.03	21.82
1.4	64QAM	1	5	21.66	22.12	21.76
1.4	64QAM	3	0	21.11	21.05	20.91
1.4	64QAM	3	1	20.64	20.97	20.69
1.4	64QAM	3	3	20.71	21.10	20.80
1.4	64QAM	6	0	20.80	21.00	20.88



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	22.21	22.47	22.22
10	QPSK	1	25	22.38	22.08	22.34
10	QPSK	1	49	22.28	22.17	22.39
10	QPSK	25	0	21.56	21.86	21.60
10	QPSK	25	12	21.67	21.65	21.83
10	QPSK	25	25	21.71	21.72	21.64
10	QPSK	50	0	21.72	21.62	21.71
10	16QAM	1	0	21.84	21.83	21.73
10	16QAM	1	25	21.81	21.60	21.64
10	16QAM	1	49	21.70	21.72	21.75
10	16QAM	25	0	20.98	20.85	20.99
10	16QAM	25	12	20.85	20.62	20.67
10	16QAM	25	25	20.63	20.67	20.58
10	16QAM	50	0	20.99	20.70	20.98
10	64QAM	1	0	21.95	21.73	21.84
10	64QAM	1	25	21.82	21.86	21.74
10	64QAM	1	49	21.65	21.61	21.70
10	64QAM	25	0	21.02	20.84	21.03
10	64QAM	25	12	20.90	20.70	20.61
10	64QAM	25	25	20.73	20.67	20.64
10	64QAM	50	0	20.97	20.65	21.02



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	22.16	22.43	22.14
5	QPSK	1	12	22.33	22.05	22.26
5	QPSK	1	24	22.23	22.14	22.31
5	QPSK	12	0	21.51	21.84	21.52
5	QPSK	12	7	21.62	21.62	21.75
5	QPSK	12	13	21.67	21.70	21.56
5	QPSK	25	0	21.67	21.59	21.63
5	16QAM	1	0	21.79	21.83	21.65
5	16QAM	1	12	21.76	21.57	21.56
5	16QAM	1	24	21.65	21.70	21.68
5	16QAM	12	0	20.93	20.82	20.91
5	16QAM	12	7	20.80	20.59	20.59
5	16QAM	12	13	20.59	20.65	20.50
5	16QAM	25	0	20.94	20.67	20.90
5	64QAM	1	0	21.90	21.70	21.76
5	64QAM	1	12	21.77	21.83	21.66
5	64QAM	1	24	21.60	21.58	21.62
5	64QAM	12	0	20.97	20.81	20.95
5	64QAM	12	7	20.85	20.67	20.53
5	64QAM	12	13	20.68	20.64	20.56
5	64QAM	25	0	20.92	20.62	20.94





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	22.12	22.42	22.11
3	QPSK	1	8	22.29	22.04	22.23
3	QPSK	1	14	22.19	22.13	22.28
3	QPSK	8	0	21.67	21.82	21.49
3	QPSK	8	4	21.58	21.61	21.72
3	QPSK	8	7	21.62	21.68	21.53
3	QPSK	15	0	21.63	21.58	21.60
3	16QAM	1	0	21.75	21.82	21.62
3	16QAM	1	8	21.72	21.56	21.53
3	16QAM	1	14	21.61	21.68	21.64
3	16QAM	8	0	20.89	20.81	20.88
3	16QAM	8	4	20.76	20.58	20.56
3	16QAM	8	7	20.54	20.63	20.47
3	16QAM	15	0	20.90	20.66	20.87
3	64QAM	1	0	21.86	21.69	21.73
3	64QAM	1	8	21.73	21.82	21.63
3	64QAM	1	14	21.56	21.57	21.59
3	64QAM	8	0	20.93	20.80	20.92
3	64QAM	8	4	20.81	20.66	20.53
3	64QAM	8	7	20.64	20.63	20.53
3	64QAM	15	0	20.88	20.61	20.91



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	22.15	22.33	22.16
1.4	QPSK	1	3	22.32	21.95	22.28
1.4	QPSK	1	5	22.22	22.04	22.33
1.4	QPSK	3	0	21.50	21.73	21.54
1.4	QPSK	3	1	21.61	21.52	21.77
1.4	QPSK	3	3	21.65	21.59	21.58
1.4	QPSK	6	0	21.66	21.49	21.65
1.4	16QAM	1	0	21.78	21.73	21.67
1.4	16QAM	1	3	21.75	21.47	21.58
1.4	16QAM	1	5	21.64	21.59	21.69
1.4	16QAM	3	0	20.92	20.72	20.93
1.4	16QAM	3	1	20.79	20.49	20.61
1.4	16QAM	3	3	20.57	20.54	20.52
1.4	16QAM	6	0	20.93	20.57	20.92
1.4	64QAM	1	0	21.89	21.60	21.78
1.4	64QAM	1	3	21.76	21.73	21.68
1.4	64QAM	1	5	21.59	21.54	21.64
1.4	64QAM	3	0	20.96	20.71	20.97
1.4	64QAM	3	1	20.84	20.57	20.55
1.4	64QAM	3	3	20.67	20.54	20.58
1.4	64QAM	6	0	20.91	20.52	20.96



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	22.07	22.34	22.17
20	QPSK	1	49	22.16	22.18	22.16
20	QPSK	1	99	22.09	22.30	22.28
20	QPSK	50	0	21.58	21.70	21.66
20	QPSK	50	24	21.53	21.60	21.65
20	QPSK	50	50	21.60	21.62	21.57
20	QPSK	100	0	21.54	21.65	21.69
20	16QAM	1	0	21.78	21.85	21.92
20	16QAM	1	49	21.75	21.64	21.78
20	16QAM	1	99	21.83	21.77	21.74
20	16QAM	50	0	20.68	20.80	20.83
20	16QAM	50	24	20.70	20.73	20.80
20	16QAM	50	50	20.65	20.79	20.71
20	16QAM	100	0	20.64	20.76	20.79
20	64QAM	1	0	21.75	21.82	21.70
20	64QAM	1	49	21.82	21.93	21.69
20	64QAM	1	99	21.73	21.77	21.82
20	64QAM	50	0	20.73	20.78	20.84
20	64QAM	50	24	20.64	20.74	20.71
20	64QAM	50	50	20.93	20.90	20.95
20	64QAM	100	0	20.65	20.77	20.67



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	21.99	22.31	22.09
15	QPSK	1	37	22.08	22.16	22.08
15	QPSK	1	74	22.01	22.27	22.20
15	QPSK	36	0	21.51	21.68	21.58
15	QPSK	36	20	21.45	21.57	21.57
15	QPSK	36	39	21.52	21.60	21.50
15	QPSK	75	0	21.46	21.62	21.61
15	16QAM	1	0	21.70	21.82	21.84
15	16QAM	1	37	21.67	21.61	21.70
15	16QAM	1	74	21.76	21.75	21.66
15	16QAM	36	0	20.60	20.77	20.75
15	16QAM	36	20	20.62	20.70	20.72
15	16QAM	36	39	20.57	20.76	20.63
15	16QAM	75	0	20.56	20.73	20.71
15	64QAM	1	0	21.67	21.79	21.62
15	64QAM	1	37	21.74	21.90	21.61
15	64QAM	1	74	21.65	21.74	21.74
15	64QAM	36	0	20.65	20.75	20.76
15	64QAM	36	20	20.56	20.71	20.63
15	64QAM	36	39	20.85	20.87	20.87
15	64QAM	75	0	20.57	20.74	20.59



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	21.98	22.29	22.08
10	QPSK	1	25	22.07	22.14	22.08
10	QPSK	1	49	22.00	22.25	22.19
10	QPSK	25	0	21.50	21.66	21.57
10	QPSK	25	12	21.44	21.55	21.56
10	QPSK	25	25	21.51	21.57	21.48
10	QPSK	50	0	21.45	21.61	21.61
10	16QAM	1	0	21.69	21.80	21.83
10	16QAM	1	25	21.66	21.59	21.69
10	16QAM	1	49	21.74	21.72	21.65
10	16QAM	25	0	20.59	20.75	20.74
10	16QAM	25	12	20.62	20.69	20.71
10	16QAM	25	25	20.56	20.74	20.62
10	16QAM	50	0	20.55	20.71	20.70
10	64QAM	1	0	21.66	21.77	21.61
10	64QAM	1	25	21.73	21.88	21.60
10	64QAM	1	49	21.64	21.72	21.73
10	64QAM	25	0	20.64	20.73	20.75
10	64QAM	25	12	20.55	20.69	20.62
10	64QAM	25	25	20.84	20.85	20.86
10	64QAM	50	0	20.56	20.72	20.58



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	22.00	22.32	22.10
5	QPSK	1	12	22.12	22.19	22.09
5	QPSK	1	24	22.02	22.28	22.21
5	QPSK	12	0	21.51	21.71	21.62
5	QPSK	12	7	21.46	21.58	21.58
5	QPSK	12	13	21.56	21.63	21.50
5	QPSK	25	0	21.50	21.66	21.62
5	16QAM	1	0	21.74	21.86	21.85
5	16QAM	1	12	21.68	21.62	21.71
5	16QAM	1	24	21.76	21.75	21.67
5	16QAM	12	0	20.61	20.81	20.79
5	16QAM	12	7	20.63	20.74	20.76
5	16QAM	12	13	20.58	20.80	20.67
5	16QAM	25	0	20.57	20.74	20.72
5	64QAM	1	0	21.68	21.80	21.63
5	64QAM	1	12	21.75	21.91	21.62
5	64QAM	1	24	21.66	21.75	21.75
5	64QAM	12	0	20.66	20.76	20.77
5	64QAM	12	7	20.57	20.72	20.64
5	64QAM	12	13	20.86	20.88	20.88
5	64QAM	25	0	20.58	20.75	20.60



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	22.38	22.48	22.30
10	QPSK	1	25	22.47	22.36	22.46
10	QPSK	1	49	22.36	22.10	22.27
10	QPSK	25	0	21.45	21.47	21.28
10	QPSK	25	12	21.42	21.24	21.36
10	QPSK	25	25	21.35	21.46	21.41
10	QPSK	50	0	21.18	21.23	21.33
10	16QAM	1	0	21.34	21.18	21.31
10	16QAM	1	25	21.25	21.10	21.24
10	16QAM	1	49	21.39	21.46	21.33
10	16QAM	25	0	20.63	20.68	20.60
10	16QAM	25	12	20.58	20.59	20.83
10	16QAM	25	25	20.64	20.78	20.89
10	16QAM	50	0	20.53	20.51	20.59
10	64QAM	1	0	21.28	21.21	21.12
10	64QAM	1	25	21.14	21.02	21.01
10	64QAM	1	49	21.03	21.40	21.34
10	64QAM	25	0	20.67	20.57	20.47
10	64QAM	25	12	20.82	20.53	20.56
10	64QAM	25	25	20.63	20.61	20.78
10	64QAM	50	0	20.37	20.53	20.59



LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.33	22.45	22.24
5	QPSK	1	12	22.42	22.33	22.40
5	QPSK	1	24	22.32	22.08	22.21
5	QPSK	12	0	21.40	21.44	21.22
5	QPSK	12	7	21.37	21.22	21.31
5	QPSK	12	13	21.30	21.44	21.36
5	QPSK	25	0	21.13	21.20	21.27
5	16QAM	1	0	21.29	21.15	21.25
5	16QAM	1	12	21.21	21.08	21.18
5	16QAM	1	24	21.35	21.44	21.27
5	16QAM	12	0	20.58	20.65	20.54
5	16QAM	12	7	20.53	20.56	20.77
5	16QAM	12	13	20.59	20.75	20.83
5	16QAM	25	0	20.54	20.63	20.53
5	64QAM	1	0	21.23	21.18	21.06
5	64QAM	1	12	21.09	21.49	21.45
5	64QAM	1	24	21.48	21.37	21.28
5	64QAM	12	0	20.62	20.54	20.41
5	64QAM	12	7	20.77	20.50	20.50
5	64QAM	12	13	20.58	20.58	20.72
5	64QAM	25	0	20.32	20.50	20.53





LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	22.30	22.41	22.22
3	QPSK	1	8	22.39	22.29	22.38
3	QPSK	1	14	22.29	22.04	22.19
3	QPSK	8	0	21.37	21.40	21.20
3	QPSK	8	4	21.34	21.18	21.29
3	QPSK	8	7	21.27	21.39	21.33
3	QPSK	15	0	21.10	21.16	21.25
3	16QAM	1	0	21.27	21.12	21.23
3	16QAM	1	8	21.18	21.04	21.16
3	16QAM	1	14	21.32	21.40	21.25
3	16QAM	8	0	20.56	20.62	20.52
3	16QAM	8	4	20.63	20.52	20.75
3	16QAM	8	7	20.56	20.72	20.82
3	16QAM	15	0	20.52	20.62	20.52
3	64QAM	1	0	21.20	21.15	21.05
3	64QAM	1	8	21.06	21.45	21.43
3	64QAM	1	14	21.43	21.33	21.26
3	64QAM	8	0	20.59	20.50	20.39
3	64QAM	8	4	20.74	20.46	20.48
3	64QAM	8	7	20.55	20.54	20.70
3	64QAM	15	0	20.29	20.46	20.51



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	22.27	22.38	22.19
1.4	QPSK	1	3	22.36	22.34	22.35
1.4	QPSK	1	5	22.25	22.08	22.16
1.4	QPSK	3	0	21.34	21.45	21.17
1.4	QPSK	3	1	21.31	21.22	21.25
1.4	QPSK	3	3	21.24	21.44	21.30
1.4	QPSK	6	0	21.07	21.21	21.22
1.4	16QAM	1	0	21.23	21.16	21.20
1.4	16QAM	1	3	21.14	21.08	21.13
1.4	16QAM	1	5	21.28	21.44	21.22
1.4	16QAM	3	0	20.52	20.66	20.54
1.4	16QAM	3	1	20.52	20.57	20.72
1.4	16QAM	3	3	20.53	20.76	20.78
1.4	16QAM	6	0	20.57	20.54	20.53
1.4	64QAM	1	0	21.17	21.19	21.01
1.4	64QAM	1	3	21.03	21.43	21.40
1.4	64QAM	1	5	21.42	21.38	21.23
1.4	64QAM	3	0	20.56	20.55	20.36
1.4	64QAM	3	1	20.71	20.51	20.45
1.4	64QAM	3	3	20.52	20.59	20.67
1.4	64QAM	6	0	20.26	20.51	20.48



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	22.31	22.46	22.30
10	QPSK	1	25	22.39	22.44	22.23
10	QPSK	1	49	22.28	22.39	22.28
10	QPSK	25	0	21.14	21.46	21.30
10	QPSK	25	12	21.23	21.35	21.35
10	QPSK	25	25	21.19	21.34	21.26
10	QPSK	50	0	21.29	21.31	21.33
10	16QAM	1	0	21.30	21.28	21.41
10	16QAM	1	25	21.13	21.43	21.07
10	16QAM	1	49	21.31	21.02	21.14
10	16QAM	25	0	20.44	20.34	20.36
10	16QAM	25	12	20.32	20.57	20.45
10	16QAM	25	25	20.47	20.38	20.43
10	16QAM	50	0	20.33	20.43	20.39
10	64QAM	1	0	21.25	21.13	21.19
10	64QAM	1	25	21.35	21.12	21.31
10	64QAM	1	49	21.34	21.36	21.11
10	64QAM	25	0	20.44	20.45	20.49
10	64QAM	25	12	20.40	20.42	20.42
10	64QAM	25	25	20.38	20.35	20.33
10	64QAM	50	0	20.31	20.47	20.50



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	22.27	22.40	22.24
5	QPSK	1	12	22.35	22.37	22.17
5	QPSK	1	24	22.24	22.32	22.22
5	QPSK	12	0	21.10	21.39	21.24
5	QPSK	12	7	21.19	21.28	21.29
5	QPSK	12	13	21.15	21.27	21.20
5	QPSK	25	0	21.25	21.24	21.27
5	16QAM	1	0	21.26	21.21	21.35
5	16QAM	1	12	21.09	21.36	21.01
5	16QAM	1	24	21.27	20.95	21.08
5	16QAM	12	0	20.40	20.37	20.31
5	16QAM	12	7	20.33	20.50	20.39
5	16QAM	12	13	20.43	20.31	20.37
5	16QAM	25	0	20.32	20.36	20.33
5	64QAM	1	0	21.21	21.06	21.13
5	64QAM	1	12	21.31	21.05	21.25
5	64QAM	1	24	21.30	21.29	21.05
5	64QAM	12	0	20.40	20.38	20.43
5	64QAM	12	7	20.36	20.35	20.36
5	64QAM	12	13	20.34	20.28	20.27
5	64QAM	25	0	20.27	20.40	20.44



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	22.50	22.56	22.53
20	QPSK	1	49	22.45	22.43	22.41
20	QPSK	1	99	22.47	22.42	22.38
20	QPSK	50	0	22.07	22.14	22.02
20	QPSK	50	24	22.04	22.01	21.96
20	QPSK	50	50	21.91	21.98	21.87
20	QPSK	100	0	22.06	21.97	21.86
20	16QAM	1	0	21.96	21.94	21.90
20	16QAM	1	49	21.85	21.98	21.87
20	16QAM	1	99	21.83	21.69	21.74
20	16QAM	50	0	21.14	21.27	21.18
20	16QAM	50	24	21.17	21.15	21.13
20	16QAM	50	50	21.06	21.07	21.14
20	16QAM	100	0	21.25	21.13	21.15
20	64QAM	1	0	22.11	22.19	22.01
20	64QAM	1	49	21.84	21.97	21.85
20	64QAM	1	99	21.93	21.99	21.94
20	64QAM	50	0	21.20	21.29	21.35
20	64QAM	50	24	20.92	21.18	21.08
20	64QAM	50	50	21.06	21.15	21.17
20	64QAM	100	0	21.08	21.13	21.16



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	22.50	22.51	22.48
15	QPSK	1	37	22.45	22.43	22.41
15	QPSK	1	74	22.47	22.42	22.38
15	QPSK	36	0	22.07	22.14	22.02
15	QPSK	36	20	22.04	22.01	21.96
15	QPSK	36	39	21.91	21.98	21.87
15	QPSK	75	0	22.06	21.97	21.86
15	16QAM	1	0	21.96	21.94	21.90
15	16QAM	1	37	21.85	21.98	21.87
15	16QAM	1	74	21.83	21.69	21.74
15	16QAM	36	0	21.14	21.27	21.18
15	16QAM	36	20	21.17	21.15	21.13
15	16QAM	36	39	21.06	21.07	21.14
15	16QAM	75	0	21.25	21.13	21.15
15	64QAM	1	0	22.11	22.19	22.01
15	64QAM	1	37	21.84	21.97	21.85
15	64QAM	1	74	21.93	21.99	21.94
15	64QAM	36	0	21.20	21.29	21.35
15	64QAM	36	20	20.92	21.18	21.08
15	64QAM	36	39	21.06	21.15	21.17
15	64QAM	75	0	21.08	21.13	21.16



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	22.43	22.54	22.46
10	QPSK	1	25	22.38	22.41	22.34
10	QPSK	1	49	22.40	22.40	22.31
10	QPSK	25	0	22.00	22.12	21.95
10	QPSK	25	12	21.97	21.99	21.89
10	QPSK	25	25	21.84	21.96	21.80
10	QPSK	50	0	21.99	21.95	21.79
10	16QAM	1	0	21.89	21.92	21.83
10	16QAM	1	25	21.78	21.96	21.80
10	16QAM	1	49	21.76	21.67	21.67
10	16QAM	25	0	21.07	21.25	21.11
10	16QAM	25	12	21.10	21.13	21.06
10	16QAM	25	25	20.99	21.05	21.07
10	16QAM	50	0	21.18	21.11	21.08
10	64QAM	1	0	22.04	22.17	21.94
10	64QAM	1	25	21.77	21.95	21.78
10	64QAM	1	49	21.86	21.97	21.87
10	64QAM	25	0	21.13	21.27	21.28
10	64QAM	25	12	20.85	21.16	21.01
10	64QAM	25	25	20.99	21.13	21.10
10	64QAM	50	0	21.01	21.11	21.09



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	22.37	22.45	22.40
5	QPSK	1	12	22.32	22.32	22.28
5	QPSK	1	24	22.34	22.31	22.25
5	QPSK	12	0	21.94	22.03	21.89
5	QPSK	12	7	21.91	21.90	21.83
5	QPSK	12	13	21.78	21.87	21.74
5	QPSK	25	0	21.93	21.86	21.73
5	16QAM	1	0	21.83	21.83	21.77
5	16QAM	1	12	21.72	21.87	21.74
5	16QAM	1	24	21.70	21.58	21.61
5	16QAM	12	0	21.01	21.16	21.05
5	16QAM	12	7	21.04	21.04	21.00
5	16QAM	12	13	20.93	20.96	21.01
5	16QAM	25	0	21.12	21.02	21.02
5	64QAM	1	0	21.98	22.08	21.88
5	64QAM	1	12	21.71	21.86	21.72
5	64QAM	1	24	21.80	21.88	21.81
5	64QAM	12	0	21.07	21.18	21.22
5	64QAM	12	7	20.79	21.07	20.95
5	64QAM	12	13	20.93	21.04	21.04
5	64QAM	25	0	20.95	21.02	21.03





LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	22.38	22.47	22.41
3	QPSK	1	8	22.33	22.34	22.29
3	QPSK	1	14	22.35	22.33	22.26
3	QPSK	8	0	21.95	22.05	21.90
3	QPSK	8	4	21.92	21.92	21.84
3	QPSK	8	7	21.79	21.89	21.75
3	QPSK	15	0	21.94	21.88	21.74
3	16QAM	1	0	21.84	21.85	21.78
3	16QAM	1	8	21.73	21.89	21.75
3	16QAM	1	14	21.71	21.60	21.62
3	16QAM	8	0	21.02	21.18	21.06
3	16QAM	8	4	21.05	21.06	21.01
3	16QAM	8	7	20.94	20.98	21.02
3	16QAM	15	0	21.13	21.04	21.03
3	64QAM	1	0	21.99	22.10	21.89
3	64QAM	1	8	21.72	21.88	21.73
3	64QAM	1	14	21.81	21.90	21.82
3	64QAM	8	0	21.08	21.20	21.23
3	64QAM	8	4	20.80	21.09	20.96
3	64QAM	8	7	20.94	21.06	21.05
3	64QAM	15	0	20.96	21.04	21.04



LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	22.34	22.50	22.37
1.4	QPSK	1	3	22.29	22.37	22.25
1.4	QPSK	1	5	22.31	22.36	22.22
1.4	QPSK	3	0	21.91	22.08	21.86
1.4	QPSK	3	1	21.88	21.95	21.80
1.4	QPSK	3	3	21.75	21.92	21.71
1.4	QPSK	6	0	21.90	21.91	21.70
1.4	16QAM	1	0	21.80	21.88	21.74
1.4	16QAM	1	3	21.69	21.92	21.71
1.4	16QAM	1	5	21.67	21.63	21.58
1.4	16QAM	3	0	20.98	21.21	21.02
1.4	16QAM	3	1	21.01	21.09	20.97
1.4	16QAM	3	3	20.90	21.01	20.98
1.4	16QAM	6	0	21.09	21.07	20.99
1.4	64QAM	1	0	21.95	22.13	21.85
1.4	64QAM	1	3	21.68	21.91	21.69
1.4	64QAM	1	5	21.77	21.93	21.78
1.4	64QAM	3	0	21.04	21.23	21.19
1.4	64QAM	3	1	20.76	21.12	20.92
1.4	64QAM	3	3	20.90	21.09	21.01
1.4	64QAM	6	0	20.92	21.07	21.00



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

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	23.68	0.233	23.96	0.249	23.86	0.243
20	QPSK	1	49	23.76	0.238	23.87	0.244	23.92	0.247
20	QPSK	1	99	23.87	0.244	23.89	0.245	23.91	0.246
20	QPSK	50	0	23.05	0.202	23.26	0.212	23.20	0.209
20	QPSK	50	24	22.97	0.198	23.07	0.203	23.04	0.201
20	QPSK	50	50	23.02	0.200	23.15	0.207	23.11	0.205
20	QPSK	100	0	23.00	0.200	23.08	0.203	23.16	0.207
20	16QAM	1	0	23.24	0.211	23.16	0.207	23.13	0.206
20	16QAM	1	49	22.91	0.195	22.98	0.199	23.06	0.202
20	16QAM	1	99	22.86	0.193	23.10	0.204	22.93	0.196
20	16QAM	50	0	22.23	0.167	22.30	0.170	22.35	0.172
20	16QAM	50	24	22.14	0.164	22.27	0.169	22.21	0.166
20	16QAM	50	50	22.09	0.162	22.26	0.168	22.19	0.166
20	16QAM	100	0	22.26	0.168	22.30	0.170	22.32	0.171
20	64QAM	1	0	23.10	0.204	22.88	0.194	23.28	0.213
20	64QAM	1	49	23.15	0.207	23.02	0.200	23.04	0.201
20	64QAM	1	99	23.01	0.200	23.04	0.201	22.93	0.196
20	64QAM	50	0	22.25	0.168	22.33	0.171	22.32	0.171
20	64QAM	50	24	22.31	0.170	22.30	0.170	21.86	0.153
20	64QAM	50	50	22.13	0.163	22.26	0.168	22.12	0.163
20	64QAM	100	0	22.24	0.167	22.35	0.172	22.31	0.170



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.65	0.232	23.94	0.248	23.81	0.240
15	QPSK	1	37	23.72	0.236	23.84	0.242	23.87	0.244
15	QPSK	1	74	23.83	0.242	23.86	0.243	23.86	0.243
15	QPSK	36	0	23.02	0.200	23.18	0.208	23.21	0.209
15	QPSK	36	20	22.93	0.196	23.04	0.201	22.98	0.199
15	QPSK	36	39	22.98	0.199	23.12	0.205	23.05	0.202
15	QPSK	75	0	22.96	0.198	23.05	0.202	23.10	0.204
15	16QAM	1	0	23.20	0.209	23.13	0.206	23.07	0.203
15	16QAM	1	37	22.88	0.194	22.96	0.198	23.01	0.200
15	16QAM	1	74	22.83	0.192	23.08	0.203	22.88	0.194
15	16QAM	36	0	22.19	0.166	22.27	0.169	22.30	0.170
15	16QAM	36	20	22.10	0.162	22.24	0.167	22.16	0.164
15	16QAM	36	39	22.05	0.160	22.23	0.167	22.14	0.164
15	16QAM	75	0	22.22	0.167	22.28	0.169	22.27	0.169
15	64QAM	1	0	23.07	0.203	22.86	0.193	23.23	0.210
15	64QAM	1	37	23.12	0.205	23.00	0.200	22.99	0.199
15	64QAM	1	74	22.98	0.199	23.02	0.200	22.88	0.194
15	64QAM	36	0	22.22	0.167	22.31	0.170	22.27	0.169
15	64QAM	36	20	22.28	0.169	22.28	0.169	21.81	0.152
15	64QAM	36	39	22.10	0.162	22.24	0.167	22.07	0.161
15	64QAM	75	0	22.21	0.166	22.33	0.171	22.26	0.168



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.62	0.230	23.92	0.247	23.77	0.238
10	QPSK	1	25	23.70	0.234	23.84	0.242	23.83	0.242
10	QPSK	1	49	23.81	0.240	23.85	0.243	23.82	0.241
10	QPSK	25	0	22.99	0.199	23.17	0.207	23.17	0.207
10	QPSK	25	12	22.91	0.195	23.03	0.201	22.95	0.197
10	QPSK	25	25	22.97	0.198	23.12	0.205	23.02	0.200
10	QPSK	50	0	22.95	0.197	23.05	0.202	23.07	0.203
10	16QAM	1	0	23.18	0.208	23.12	0.205	23.04	0.201
10	16QAM	1	25	22.85	0.193	22.94	0.197	22.97	0.198
10	16QAM	1	49	22.80	0.191	23.06	0.202	22.84	0.192
10	16QAM	25	0	22.17	0.165	22.27	0.169	22.27	0.169
10	16QAM	25	12	22.08	0.161	22.24	0.167	22.13	0.163
10	16QAM	25	25	22.03	0.160	22.23	0.167	22.11	0.163
10	16QAM	50	0	22.20	0.166	22.26	0.168	22.23	0.167
10	64QAM	1	0	23.04	0.201	22.84	0.192	23.19	0.208
10	64QAM	1	25	23.09	0.204	22.98	0.199	22.95	0.197
10	64QAM	1	49	22.95	0.197	23.00	0.200	22.84	0.192
10	64QAM	25	0	22.19	0.166	22.29	0.169	22.23	0.167
10	64QAM	25	12	22.25	0.168	22.26	0.168	21.87	0.154
10	64QAM	25	25	22.07	0.161	22.22	0.167	22.03	0.160
10	64QAM	50	0	22.18	0.165	22.31	0.170	22.22	0.167



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.60	0.229	23.89	0.245	23.78	0.239
5	QPSK	1	12	23.68	0.233	23.80	0.240	23.84	0.242
5	QPSK	1	24	23.80	0.240	23.83	0.242	23.83	0.242
5	QPSK	12	0	22.98	0.199	23.14	0.206	23.18	0.208
5	QPSK	12	7	22.89	0.195	23.00	0.200	22.96	0.198
5	QPSK	12	13	22.94	0.197	23.08	0.203	23.03	0.201
5	QPSK	25	0	22.92	0.196	23.01	0.200	23.08	0.203
5	16QAM	1	0	23.17	0.207	23.10	0.204	23.05	0.202
5	16QAM	1	12	22.84	0.192	22.92	0.196	22.98	0.199
5	16QAM	1	24	22.79	0.190	23.04	0.201	22.85	0.193
5	16QAM	12	0	22.16	0.164	22.24	0.167	22.27	0.169
5	16QAM	12	7	22.06	0.161	22.20	0.166	22.13	0.163
5	16QAM	12	13	22.01	0.159	22.19	0.166	22.11	0.163
5	16QAM	25	0	22.18	0.165	22.24	0.167	22.25	0.168
5	64QAM	1	0	23.02	0.200	22.82	0.191	23.21	0.209
5	64QAM	1	12	23.07	0.203	22.96	0.198	22.97	0.198
5	64QAM	1	24	22.93	0.196	22.97	0.198	22.85	0.193
5	64QAM	12	0	22.17	0.165	22.26	0.168	22.24	0.167
5	64QAM	12	7	22.23	0.167	22.23	0.167	21.78	0.151
5	64QAM	12	13	22.05	0.160	22.19	0.166	22.04	0.160
5	64QAM	25	0	22.16	0.164	22.28	0.169	22.23	0.167



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.55	0.226	23.85	0.243	23.73	0.236
3	QPSK	1	8	23.63	0.231	23.76	0.238	23.79	0.239
3	QPSK	1	14	23.74	0.237	23.78	0.239	23.78	0.239
3	QPSK	8	0	22.93	0.196	23.10	0.204	23.13	0.206
3	QPSK	8	4	22.84	0.192	22.96	0.198	22.91	0.195
3	QPSK	8	7	22.89	0.195	23.05	0.202	22.99	0.199
3	QPSK	15	0	22.87	0.194	22.97	0.198	23.03	0.201
3	16QAM	1	0	23.12	0.205	23.06	0.202	23.00	0.200
3	16QAM	1	8	22.78	0.190	22.87	0.194	22.93	0.196
3	16QAM	1	14	22.73	0.187	22.99	0.199	22.80	0.191
3	16QAM	8	0	22.10	0.162	22.19	0.166	22.22	0.167
3	16QAM	8	4	22.01	0.159	22.16	0.164	22.08	0.161
3	16QAM	8	7	21.97	0.157	22.15	0.164	22.06	0.161
3	16QAM	15	0	22.13	0.163	22.19	0.166	22.19	0.166
3	64QAM	1	0	22.97	0.198	22.77	0.189	23.16	0.207
3	64QAM	1	8	23.02	0.200	22.91	0.195	22.91	0.195
3	64QAM	1	14	22.88	0.194	22.93	0.196	22.80	0.191
3	64QAM	8	0	22.12	0.163	22.22	0.167	22.19	0.166
3	64QAM	8	4	22.18	0.165	22.19	0.166	21.73	0.149
3	64QAM	8	7	22.00	0.158	22.15	0.164	21.99	0.158
3	64QAM	15	0	22.11	0.163	22.24	0.167	22.18	0.165



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.66	0.232	23.89	0.245	23.83	0.242
1.4	QPSK	1	3	23.74	0.237	23.80	0.240	23.88	0.244
1.4	QPSK	1	5	23.85	0.243	23.82	0.241	23.88	0.244
1.4	QPSK	3	0	23.03	0.201	23.13	0.206	23.23	0.210
1.4	QPSK	3	1	22.95	0.197	23.00	0.200	23.01	0.200
1.4	QPSK	3	3	23.00	0.200	23.08	0.203	23.08	0.203
1.4	QPSK	6	0	22.98	0.199	23.01	0.200	23.13	0.206
1.4	16QAM	1	0	23.22	0.210	23.09	0.204	23.10	0.204
1.4	16QAM	1	3	22.89	0.195	22.91	0.195	23.03	0.201
1.4	16QAM	1	5	22.84	0.192	23.03	0.201	22.90	0.195
1.4	16QAM	3	0	22.21	0.166	22.23	0.167	22.32	0.171
1.4	16QAM	3	1	22.12	0.163	22.20	0.166	22.18	0.165
1.4	16QAM	3	3	22.07	0.161	22.19	0.166	22.16	0.164
1.4	16QAM	6	0	22.24	0.167	22.23	0.167	22.29	0.169
1.4	64QAM	1	0	23.08	0.203	22.81	0.191	23.25	0.211
1.4	64QAM	1	3	23.13	0.206	22.95	0.197	23.01	0.200
1.4	64QAM	1	5	22.99	0.199	22.97	0.198	22.90	0.195
1.4	64QAM	3	0	22.23	0.167	22.26	0.168	22.29	0.169
1.4	64QAM	3	1	22.29	0.169	22.23	0.167	21.83	0.152
1.4	64QAM	3	3	22.11	0.163	22.19	0.166	22.09	0.162
1.4	64QAM	6	0	22.22	0.167	22.22	0.167	22.28	0.169





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	23.77	0.238	23.79	0.239	23.41	0.219
20	QPSK	1	49	23.69	0.234	23.69	0.234	23.53	0.225
20	QPSK	1	99	23.60	0.229	23.66	0.232	23.50	0.224
20	QPSK	50	0	22.89	0.195	22.94	0.197	22.97	0.198
20	QPSK	50	24	22.82	0.191	22.83	0.192	22.73	0.187
20	QPSK	50	50	22.88	0.194	22.81	0.191	22.84	0.192
20	QPSK	100	0	22.81	0.191	22.95	0.197	22.91	0.195
20	16QAM	1	0	22.80	0.191	22.85	0.193	22.75	0.188
20	16QAM	1	49	22.61	0.182	22.82	0.191	22.65	0.184
20	16QAM	1	99	22.74	0.188	22.87	0.194	22.63	0.183
20	16QAM	50	0	21.97	0.157	21.92	0.156	22.03	0.160
20	16QAM	50	24	21.86	0.153	22.02	0.159	21.88	0.154
20	16QAM	50	50	21.63	0.146	21.96	0.157	21.77	0.150
20	16QAM	100	0	22.06	0.161	22.29	0.169	22.14	0.164
20	64QAM	1	0	23.07	0.203	23.07	0.203	22.95	0.197
20	64QAM	1	49	22.83	0.192	23.01	0.200	22.84	0.192
20	64QAM	1	99	22.63	0.183	23.10	0.204	22.78	0.190
20	64QAM	50	0	22.13	0.163	22.03	0.160	21.93	0.156
20	64QAM	50	24	21.66	0.147	21.95	0.157	21.71	0.148
20	64QAM	50	50	21.73	0.149	22.08	0.161	21.82	0.152
20	64QAM	100	0	21.82	0.152	21.98	0.158	21.90	0.155



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.72	0.236	23.76	0.238	23.40	0.219
15	QPSK	1	37	23.65	0.232	23.67	0.233	23.44	0.221
15	QPSK	1	74	23.55	0.226	23.63	0.231	23.41	0.219
15	QPSK	36	0	22.84	0.192	22.92	0.196	22.89	0.195
15	QPSK	36	20	22.77	0.189	22.80	0.191	22.64	0.184
15	QPSK	36	39	22.83	0.192	22.78	0.190	22.75	0.188
15	QPSK	75	0	22.76	0.189	22.92	0.196	22.82	0.191
15	16QAM	1	0	22.75	0.188	22.82	0.191	22.66	0.185
15	16QAM	1	37	22.57	0.181	22.80	0.191	22.56	0.180
15	16QAM	1	74	22.69	0.186	22.84	0.192	22.54	0.179
15	16QAM	36	0	21.92	0.156	21.89	0.155	21.94	0.156
15	16QAM	36	20	21.81	0.152	22.00	0.158	21.80	0.151
15	16QAM	36	39	21.58	0.144	21.93	0.156	21.68	0.147
15	16QAM	75	0	22.01	0.159	22.26	0.168	22.05	0.160
15	64QAM	1	0	23.02	0.200	23.04	0.201	22.86	0.193
15	64QAM	1	37	22.78	0.190	22.98	0.199	22.75	0.188
15	64QAM	1	74	22.58	0.181	23.07	0.203	22.69	0.186
15	64QAM	36	0	22.08	0.161	22.00	0.158	21.84	0.153
15	64QAM	36	20	21.61	0.145	21.92	0.156	21.62	0.145
15	64QAM	36	39	21.68	0.147	22.05	0.160	21.73	0.149
15	64QAM	75	0	21.77	0.150	21.95	0.157	21.81	0.152



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.70	0.234	23.73	0.236	23.34	0.216
10	QPSK	1	25	23.64	0.231	23.65	0.232	23.46	0.222
10	QPSK	1	49	23.53	0.225	23.60	0.229	23.43	0.220
10	QPSK	25	0	22.82	0.191	22.90	0.195	22.85	0.193
10	QPSK	25	12	22.75	0.188	22.77	0.189	22.66	0.185
10	QPSK	25	25	22.81	0.191	22.75	0.188	22.77	0.189
10	QPSK	50	0	22.74	0.188	22.89	0.195	22.84	0.192
10	16QAM	1	0	22.73	0.187	22.79	0.190	22.68	0.185
10	16QAM	1	25	22.54	0.179	22.76	0.189	22.58	0.181
10	16QAM	1	49	22.67	0.185	22.81	0.191	22.56	0.180
10	16QAM	25	0	21.90	0.155	21.86	0.153	21.96	0.157
10	16QAM	25	12	21.79	0.151	21.96	0.157	21.81	0.152
10	16QAM	25	25	21.58	0.144	21.92	0.156	21.70	0.148
10	16QAM	50	0	21.99	0.158	22.23	0.167	22.07	0.161
10	64QAM	1	0	23.00	0.200	23.01	0.200	22.88	0.194
10	64QAM	1	25	22.76	0.189	22.95	0.197	22.77	0.189
10	64QAM	1	49	22.56	0.180	23.04	0.201	22.73	0.187
10	64QAM	25	0	22.06	0.161	21.97	0.157	21.86	0.153
10	64QAM	25	12	21.59	0.144	21.89	0.155	21.64	0.146
10	64QAM	25	25	21.66	0.147	22.02	0.159	21.75	0.150
10	64QAM	50	0	21.75	0.150	21.92	0.156	21.83	0.152



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.69	0.234	23.75	0.237	23.41	0.219
5	QPSK	1	12	23.61	0.230	23.65	0.232	23.40	0.219
5	QPSK	1	24	23.53	0.225	23.63	0.231	23.37	0.217
5	QPSK	12	0	22.81	0.191	22.91	0.195	22.85	0.193
5	QPSK	12	7	22.74	0.188	22.79	0.190	22.60	0.182
5	QPSK	12	13	22.80	0.191	22.78	0.190	22.71	0.187
5	QPSK	25	0	22.73	0.187	22.91	0.195	22.78	0.190
5	16QAM	1	0	22.72	0.187	22.81	0.191	22.62	0.183
5	16QAM	1	12	22.54	0.179	22.79	0.190	22.52	0.179
5	16QAM	1	24	22.66	0.185	22.83	0.192	22.50	0.178
5	16QAM	12	0	21.89	0.155	21.88	0.154	21.90	0.155
5	16QAM	12	7	21.78	0.151	21.98	0.158	21.75	0.150
5	16QAM	12	13	21.55	0.143	21.93	0.156	21.64	0.146
5	16QAM	25	0	21.98	0.158	22.25	0.168	22.01	0.159
5	64QAM	1	0	22.99	0.199	23.03	0.201	22.83	0.192
5	64QAM	1	12	22.75	0.188	22.97	0.198	22.71	0.187
5	64QAM	1	24	22.59	0.182	23.06	0.202	22.65	0.184
5	64QAM	12	0	22.05	0.160	21.99	0.158	21.80	0.151
5	64QAM	12	7	21.58	0.144	21.91	0.155	21.58	0.144
5	64QAM	12	13	21.65	0.146	22.04	0.160	21.69	0.148
5	64QAM	25	0	21.74	0.149	21.94	0.156	21.77	0.150



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	23.63	0.231	23.68	0.233	23.57	0.228
3	QPSK	1	8	23.55	0.226	23.58	0.228	23.49	0.223
3	QPSK	1	14	23.46	0.222	23.55	0.226	23.36	0.217
3	QPSK	8	0	22.75	0.188	22.84	0.192	22.83	0.192
3	QPSK	8	4	22.68	0.185	22.72	0.187	22.59	0.182
3	QPSK	8	7	22.74	0.188	22.63	0.183	22.71	0.187
3	QPSK	15	0	22.67	0.185	22.84	0.192	22.77	0.189
3	16QAM	1	0	22.66	0.185	22.74	0.188	22.61	0.182
3	16QAM	1	8	22.47	0.177	22.71	0.187	22.51	0.178
3	16QAM	1	14	22.61	0.182	22.77	0.189	22.49	0.177
3	16QAM	8	0	21.83	0.152	21.81	0.152	21.89	0.155
3	16QAM	8	4	21.72	0.149	21.91	0.155	21.74	0.149
3	16QAM	8	7	21.49	0.141	21.85	0.153	21.63	0.146
3	16QAM	15	0	21.92	0.156	22.18	0.165	22.00	0.158
3	64QAM	1	0	22.93	0.196	22.97	0.198	22.82	0.191
3	64QAM	1	8	22.69	0.186	22.90	0.195	22.70	0.186
3	64QAM	1	14	22.49	0.177	22.99	0.199	22.64	0.184
3	64QAM	8	0	21.99	0.158	21.92	0.156	21.79	0.151
3	64QAM	8	4	21.52	0.142	21.84	0.153	21.57	0.144
3	64QAM	8	7	21.59	0.144	21.97	0.157	21.68	0.147
3	64QAM	15	0	21.68	0.147	21.87	0.154	21.76	0.150



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.65	0.232	23.71	0.235	23.47	0.222
1.4	QPSK	1	3	23.57	0.228	23.61	0.230	23.41	0.219
1.4	QPSK	1	5	23.48	0.223	23.58	0.228	23.38	0.218
1.4	QPSK	3	0	22.77	0.189	22.86	0.193	22.85	0.193
1.4	QPSK	3	1	22.70	0.186	22.75	0.188	22.61	0.182
1.4	QPSK	3	3	22.76	0.189	22.73	0.187	22.72	0.187
1.4	QPSK	6	0	22.69	0.186	22.87	0.194	22.79	0.190
1.4	16QAM	1	0	22.68	0.185	22.77	0.189	22.63	0.183
1.4	16QAM	1	3	22.49	0.177	22.74	0.188	22.53	0.179
1.4	16QAM	1	5	22.62	0.183	22.79	0.190	22.51	0.178
1.4	16QAM	3	0	21.85	0.153	21.84	0.153	21.91	0.155
1.4	16QAM	3	1	21.74	0.149	21.94	0.156	21.76	0.150
1.4	16QAM	3	3	21.51	0.142	21.88	0.154	21.65	0.146
1.4	16QAM	6	0	21.94	0.156	22.21	0.166	22.02	0.159
1.4	64QAM	1	0	22.95	0.197	22.99	0.199	22.83	0.192
1.4	64QAM	1	3	22.71	0.187	22.93	0.196	22.72	0.187
1.4	64QAM	1	5	22.56	0.180	23.02	0.200	22.66	0.185
1.4	64QAM	3	0	22.01	0.159	21.95	0.157	21.81	0.152
1.4	64QAM	3	1	21.54	0.143	21.87	0.154	21.59	0.144
1.4	64QAM	3	3	21.61	0.145	22.00	0.158	21.70	0.148
1.4	64QAM	6	0	21.70	0.148	21.90	0.155	21.78	0.151



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	19.08	0.081	19.34	0.086	19.09	0.081
10	QPSK	1	25	19.25	0.084	18.95	0.079	19.21	0.083
10	QPSK	1	49	19.15	0.082	19.04	0.080	19.26	0.084
10	QPSK	25	0	18.43	0.070	18.73	0.075	18.47	0.070
10	QPSK	25	12	18.54	0.071	18.52	0.071	18.70	0.074
10	QPSK	25	25	18.58	0.072	18.59	0.072	18.51	0.071
10	QPSK	50	0	18.59	0.072	18.49	0.071	18.58	0.072
10	16QAM	1	0	18.71	0.074	18.70	0.074	18.60	0.072
10	16QAM	1	25	18.68	0.074	18.47	0.070	18.51	0.071
10	16QAM	1	49	18.57	0.072	18.59	0.072	18.62	0.073
10	16QAM	25	0	17.85	0.061	17.72	0.059	17.86	0.061
10	16QAM	25	12	17.72	0.059	17.49	0.056	17.54	0.057
10	16QAM	25	25	17.50	0.056	17.54	0.057	17.45	0.056
10	16QAM	50	0	17.86	0.061	17.57	0.057	17.85	0.061
10	64QAM	1	0	18.82	0.076	18.60	0.072	18.71	0.074
10	64QAM	1	25	18.69	0.074	18.73	0.075	18.61	0.073
10	64QAM	1	49	18.52	0.071	18.48	0.070	18.57	0.072
10	64QAM	25	0	17.89	0.062	17.71	0.059	17.90	0.062
10	64QAM	25	12	17.77	0.060	17.57	0.057	17.48	0.056
10	64QAM	25	25	17.60	0.058	17.54	0.057	17.51	0.056
10	64QAM	50	0	17.84	0.061	17.52	0.056	17.89	0.062



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	19.03	0.080	19.30	0.085	19.01	0.080
5	QPSK	1	12	19.20	0.083	18.92	0.078	19.13	0.082
5	QPSK	1	24	19.10	0.081	19.01	0.080	19.18	0.083
5	QPSK	12	0	18.38	0.069	18.71	0.074	18.39	0.069
5	QPSK	12	7	18.49	0.071	18.49	0.071	18.62	0.073
5	QPSK	12	13	18.54	0.071	18.57	0.072	18.43	0.070
5	QPSK	25	0	18.54	0.071	18.46	0.070	18.50	0.071
5	16QAM	1	0	18.66	0.073	18.70	0.074	18.52	0.071
5	16QAM	1	12	18.63	0.073	18.44	0.070	18.43	0.070
5	16QAM	1	24	18.52	0.071	18.57	0.072	18.55	0.072
5	16QAM	12	0	17.80	0.060	17.69	0.059	17.78	0.060
5	16QAM	12	7	17.67	0.058	17.46	0.056	17.46	0.056
5	16QAM	12	13	17.46	0.056	17.52	0.056	17.37	0.055
5	16QAM	25	0	17.81	0.060	17.54	0.057	17.77	0.060
5	64QAM	1	0	18.77	0.075	18.57	0.072	18.63	0.073
5	64QAM	1	12	18.64	0.073	18.70	0.074	18.53	0.071
5	64QAM	1	24	18.47	0.070	18.45	0.070	18.49	0.071
5	64QAM	12	0	17.84	0.061	17.68	0.059	17.82	0.061
5	64QAM	12	7	17.72	0.059	17.54	0.057	17.40	0.055
5	64QAM	12	13	17.55	0.057	17.51	0.056	17.43	0.055
5	64QAM	25	0	17.79	0.060	17.49	0.056	17.81	0.060





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	18.99	0.079	19.29	0.085	18.98	0.079
3	QPSK	1	8	19.16	0.082	18.91	0.078	19.10	0.081
3	QPSK	1	14	19.06	0.081	19.00	0.079	19.15	0.082
3	QPSK	8	0	18.54	0.071	18.69	0.074	18.36	0.069
3	QPSK	8	4	18.45	0.070	18.48	0.070	18.59	0.072
3	QPSK	8	7	18.49	0.071	18.55	0.072	18.40	0.069
3	QPSK	15	0	18.50	0.071	18.45	0.070	18.47	0.070
3	16QAM	1	0	18.62	0.073	18.69	0.074	18.49	0.071
3	16QAM	1	8	18.59	0.072	18.43	0.070	18.40	0.069
3	16QAM	1	14	18.48	0.070	18.55	0.072	18.51	0.071
3	16QAM	8	0	17.76	0.060	17.68	0.059	17.75	0.060
3	16QAM	8	4	17.63	0.058	17.45	0.056	17.43	0.055
3	16QAM	8	7	17.41	0.055	17.50	0.056	17.34	0.054
3	16QAM	15	0	17.77	0.060	17.53	0.057	17.74	0.059
3	64QAM	1	0	18.73	0.075	18.56	0.072	18.60	0.072
3	64QAM	1	8	18.60	0.072	18.69	0.074	18.50	0.071
3	64QAM	1	14	18.43	0.070	18.44	0.070	18.46	0.070
3	64QAM	8	0	17.80	0.060	17.67	0.058	17.79	0.060
3	64QAM	8	4	17.68	0.059	17.53	0.057	17.40	0.055
3	64QAM	8	7	17.51	0.056	17.50	0.056	17.40	0.055
3	64QAM	15	0	17.75	0.060	17.48	0.056	17.78	0.060



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	19.02	0.080	19.20	0.083	19.03	0.080
1.4	QPSK	1	3	19.19	0.083	18.82	0.076	19.15	0.082
1.4	QPSK	1	5	19.09	0.081	18.91	0.078	19.20	0.083
1.4	QPSK	3	0	18.37	0.069	18.60	0.072	18.41	0.069
1.4	QPSK	3	1	18.48	0.070	18.39	0.069	18.64	0.073
1.4	QPSK	3	3	18.52	0.071	18.46	0.070	18.45	0.070
1.4	QPSK	6	0	18.53	0.071	18.36	0.069	18.52	0.071
1.4	16QAM	1	0	18.65	0.073	18.60	0.072	18.54	0.071
1.4	16QAM	1	3	18.62	0.073	18.34	0.068	18.45	0.070
1.4	16QAM	1	5	18.51	0.071	18.46	0.070	18.56	0.072
1.4	16QAM	3	0	17.79	0.060	17.59	0.057	17.80	0.060
1.4	16QAM	3	1	17.66	0.058	17.36	0.054	17.48	0.056
1.4	16QAM	3	3	17.44	0.055	17.41	0.055	17.39	0.055
1.4	16QAM	6	0	17.80	0.060	17.44	0.055	17.79	0.060
1.4	64QAM	1	0	18.76	0.075	18.47	0.070	18.65	0.073
1.4	64QAM	1	3	18.63	0.073	18.60	0.072	18.55	0.072
1.4	64QAM	1	5	18.46	0.070	18.41	0.069	18.51	0.071
1.4	64QAM	3	0	17.83	0.061	17.58	0.057	17.84	0.061
1.4	64QAM	3	1	17.71	0.059	17.44	0.055	17.42	0.055
1.4	64QAM	3	3	17.54	0.057	17.41	0.055	17.45	0.056
1.4	64QAM	6	0	17.78	0.060	17.39	0.055	17.83	0.061



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	23.42	0.220	23.69	0.234	23.52	0.225
20	QPSK	1	49	23.51	0.224	23.53	0.225	23.51	0.224
20	QPSK	1	99	23.44	0.221	23.65	0.232	23.63	0.231
20	QPSK	50	0	22.93	0.196	23.05	0.202	23.01	0.200
20	QPSK	50	24	22.88	0.194	22.95	0.197	23.00	0.200
20	QPSK	50	50	22.95	0.197	22.97	0.198	22.92	0.196
20	QPSK	100	0	22.89	0.195	23.00	0.200	23.04	0.201
20	16QAM	1	0	23.13	0.206	23.20	0.209	23.27	0.212
20	16QAM	1	49	23.10	0.204	22.99	0.199	23.13	0.206
20	16QAM	1	99	23.18	0.208	23.12	0.205	23.09	0.204
20	16QAM	50	0	22.03	0.160	22.15	0.164	22.18	0.165
20	16QAM	50	24	22.05	0.160	22.08	0.161	22.15	0.164
20	16QAM	50	50	22.00	0.158	22.14	0.164	22.06	0.161
20	16QAM	100	0	21.99	0.158	22.11	0.163	22.14	0.164
20	64QAM	1	0	23.10	0.204	23.17	0.207	23.05	0.202
20	64QAM	1	49	23.17	0.207	23.28	0.213	23.04	0.201
20	64QAM	1	99	23.08	0.203	23.12	0.205	23.17	0.207
20	64QAM	50	0	22.08	0.161	22.13	0.163	22.19	0.166
20	64QAM	50	24	21.99	0.158	22.09	0.162	22.06	0.161
20	64QAM	50	50	22.28	0.169	22.25	0.168	22.30	0.170
20	64QAM	100	0	22.00	0.158	22.12	0.163	22.02	0.159



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	23.34	0.216	23.66	0.232	23.44	0.221
15	QPSK	1	37	23.43	0.220	23.51	0.224	23.43	0.220
15	QPSK	1	74	23.36	0.217	23.62	0.230	23.55	0.226
15	QPSK	36	0	22.86	0.193	23.03	0.201	22.93	0.196
15	QPSK	36	20	22.80	0.191	22.92	0.196	22.92	0.196
15	QPSK	36	39	22.87	0.194	22.95	0.197	22.85	0.193
15	QPSK	75	0	22.81	0.191	22.97	0.198	22.96	0.198
15	16QAM	1	0	23.05	0.202	23.17	0.207	23.19	0.208
15	16QAM	1	37	23.02	0.200	22.96	0.198	23.05	0.202
15	16QAM	1	74	23.11	0.205	23.10	0.204	23.01	0.200
15	16QAM	36	0	21.95	0.157	22.12	0.163	22.10	0.162
15	16QAM	36	20	21.97	0.157	22.05	0.160	22.07	0.161
15	16QAM	36	39	21.92	0.156	22.11	0.163	21.98	0.158
15	16QAM	75	0	21.91	0.155	22.08	0.161	22.06	0.161
15	64QAM	1	0	23.02	0.200	23.14	0.206	22.97	0.198
15	64QAM	1	37	23.09	0.204	23.25	0.211	22.96	0.198
15	64QAM	1	74	23.00	0.200	23.09	0.204	23.09	0.204
15	64QAM	36	0	22.00	0.158	22.10	0.162	22.11	0.163
15	64QAM	36	20	21.91	0.155	22.06	0.161	21.98	0.158
15	64QAM	36	39	22.20	0.166	22.22	0.167	22.22	0.167
15	64QAM	75	0	21.92	0.156	22.09	0.162	21.94	0.156



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	23.33	0.215	23.64	0.231	23.43	0.220
10	QPSK	1	25	23.42	0.220	23.49	0.223	23.43	0.220
10	QPSK	1	49	23.35	0.216	23.60	0.229	23.54	0.226
10	QPSK	25	0	22.85	0.193	23.01	0.200	22.92	0.196
10	QPSK	25	12	22.79	0.190	22.90	0.195	22.91	0.195
10	QPSK	25	25	22.86	0.193	22.92	0.196	22.83	0.192
10	QPSK	50	0	22.80	0.191	22.96	0.198	22.96	0.198
10	16QAM	1	0	23.04	0.201	23.15	0.207	23.18	0.208
10	16QAM	1	25	23.01	0.200	22.94	0.197	23.04	0.201
10	16QAM	1	49	23.09	0.204	23.07	0.203	23.00	0.200
10	16QAM	25	0	21.94	0.156	22.10	0.162	22.09	0.162
10	16QAM	25	12	21.97	0.157	22.04	0.160	22.06	0.161
10	16QAM	25	25	21.91	0.155	22.09	0.162	21.97	0.157
10	16QAM	50	0	21.90	0.155	22.06	0.161	22.05	0.160
10	64QAM	1	0	23.01	0.200	23.12	0.205	22.96	0.198
10	64QAM	1	25	23.08	0.203	23.23	0.210	22.95	0.197
10	64QAM	1	49	22.99	0.199	23.07	0.203	23.08	0.203
10	64QAM	25	0	21.99	0.158	22.08	0.161	22.10	0.162
10	64QAM	25	12	21.90	0.155	22.04	0.160	21.97	0.157
10	64QAM	25	25	22.19	0.166	22.20	0.166	22.21	0.166
10	64QAM	50	0	21.91	0.155	22.07	0.161	21.93	0.156



LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	23.35	0.216	23.67	0.233	23.45	0.221
5	QPSK	1	12	23.47	0.222	23.54	0.226	23.44	0.221
5	QPSK	1	24	23.37	0.217	23.63	0.231	23.56	0.227
5	QPSK	12	0	22.86	0.193	23.06	0.202	22.97	0.198
5	QPSK	12	7	22.81	0.191	22.93	0.196	22.93	0.196
5	QPSK	12	13	22.91	0.195	22.98	0.199	22.85	0.193
5	QPSK	25	0	22.85	0.193	23.01	0.200	22.97	0.198
5	16QAM	1	0	23.09	0.204	23.21	0.209	23.20	0.209
5	16QAM	1	12	23.03	0.201	22.97	0.198	23.06	0.202
5	16QAM	1	24	23.11	0.205	23.10	0.204	23.02	0.200
5	16QAM	12	0	21.96	0.157	22.16	0.164	22.14	0.164
5	16QAM	12	7	21.98	0.158	22.09	0.162	22.11	0.163
5	16QAM	12	13	21.93	0.156	22.15	0.164	22.02	0.159
5	16QAM	25	0	21.92	0.156	22.09	0.162	22.07	0.161
5	64QAM	1	0	23.03	0.201	23.15	0.207	22.98	0.199
5	64QAM	1	12	23.10	0.204	23.26	0.212	22.97	0.198
5	64QAM	1	24	23.01	0.200	23.10	0.204	23.10	0.204
5	64QAM	12	0	22.01	0.159	22.11	0.163	22.12	0.163
5	64QAM	12	7	21.92	0.156	22.07	0.161	21.99	0.158
5	64QAM	12	13	22.21	0.166	22.23	0.167	22.23	0.167
5	64QAM	25	0	21.93	0.156	22.10	0.162	21.95	0.157



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23060		23095		23130	
Frequency (MHz)				704		707.5		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.49	0.071	18.59	0.072	18.41	0.069
10	QPSK	1	25	18.58	0.072	18.47	0.070	18.57	0.072
10	QPSK	1	49	18.47	0.070	18.21	0.066	18.38	0.069
10	QPSK	25	0	17.56	0.057	17.58	0.057	17.39	0.055
10	QPSK	25	12	17.53	0.057	17.35	0.054	17.47	0.056
10	QPSK	25	25	17.46	0.056	17.57	0.057	17.52	0.056
10	QPSK	50	0	17.29	0.054	17.34	0.054	17.44	0.055
10	16QAM	1	0	17.45	0.056	17.29	0.054	17.42	0.055
10	16QAM	1	25	17.36	0.054	17.21	0.053	17.35	0.054
10	16QAM	1	49	17.50	0.056	17.57	0.057	17.44	0.055
10	16QAM	25	0	16.74	0.047	16.79	0.048	16.71	0.047
10	16QAM	25	12	16.69	0.047	16.70	0.047	16.94	0.049
10	16QAM	25	25	16.75	0.047	16.89	0.049	17.00	0.050
10	16QAM	50	0	16.64	0.046	16.62	0.046	16.70	0.047
10	64QAM	1	0	17.39	0.055	17.32	0.054	17.23	0.053
10	64QAM	1	25	17.25	0.053	17.13	0.052	17.12	0.052
10	64QAM	1	49	17.14	0.052	17.51	0.056	17.45	0.056
10	64QAM	25	0	16.78	0.048	16.68	0.047	16.58	0.045
10	64QAM	25	12	16.93	0.049	16.64	0.046	16.67	0.046
10	64QAM	25	25	16.74	0.047	16.72	0.047	16.89	0.049
10	64QAM	50	0	16.48	0.044	16.64	0.046	16.70	0.047



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23095		23155	
Frequency (MHz)				701.5		707.5		713.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	18.44	0.070	18.56	0.072	18.35	0.068
5	QPSK	1	12	18.53	0.071	18.44	0.070	18.51	0.071
5	QPSK	1	24	18.43	0.070	18.19	0.066	18.32	0.068
5	QPSK	12	0	17.51	0.056	17.55	0.057	17.33	0.054
5	QPSK	12	7	17.48	0.056	17.33	0.054	17.42	0.055
5	QPSK	12	13	17.41	0.055	17.55	0.057	17.47	0.056
5	QPSK	25	0	17.24	0.053	17.31	0.054	17.38	0.055
5	16QAM	1	0	17.40	0.055	17.26	0.053	17.36	0.054
5	16QAM	1	12	17.32	0.054	17.19	0.052	17.29	0.054
5	16QAM	1	24	17.46	0.056	17.55	0.057	17.38	0.055
5	16QAM	12	0	16.69	0.047	16.76	0.047	16.65	0.046
5	16QAM	12	7	16.64	0.046	16.67	0.046	16.88	0.049
5	16QAM	12	13	16.70	0.047	16.86	0.049	16.94	0.049
5	16QAM	25	0	16.65	0.046	16.74	0.047	16.64	0.046
5	64QAM	1	0	17.34	0.054	17.29	0.054	17.17	0.052
5	64QAM	1	12	17.20	0.052	17.60	0.058	17.56	0.057
5	64QAM	1	24	17.59	0.057	17.48	0.056	17.39	0.055
5	64QAM	12	0	16.73	0.047	16.65	0.046	16.52	0.045
5	64QAM	12	7	16.88	0.049	16.61	0.046	16.61	0.046
5	64QAM	12	13	16.69	0.047	16.69	0.047	16.83	0.048
5	64QAM	25	0	16.43	0.044	16.61	0.046	16.64	0.046





LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23025		23095		23165	
Frequency (MHz)				700.5		707.5		714.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	18.41	0.069	18.52	0.071	18.33	0.068
3	QPSK	1	8	18.50	0.071	18.40	0.069	18.49	0.071
3	QPSK	1	14	18.40	0.069	18.15	0.065	18.30	0.068
3	QPSK	8	0	17.48	0.056	17.51	0.056	17.31	0.054
3	QPSK	8	4	17.45	0.056	17.29	0.054	17.40	0.055
3	QPSK	8	7	17.38	0.055	17.50	0.056	17.44	0.055
3	QPSK	15	0	17.21	0.053	17.27	0.053	17.36	0.054
3	16QAM	1	0	17.38	0.055	17.23	0.053	17.34	0.054
3	16QAM	1	8	17.29	0.054	17.15	0.052	17.27	0.053
3	16QAM	1	14	17.43	0.055	17.51	0.056	17.36	0.054
3	16QAM	8	0	16.67	0.046	16.73	0.047	16.63	0.046
3	16QAM	8	4	16.74	0.047	16.63	0.046	16.86	0.049
3	16QAM	8	7	16.67	0.046	16.83	0.048	16.93	0.049
3	16QAM	15	0	16.63	0.046	16.73	0.047	16.63	0.046
3	64QAM	1	0	17.31	0.054	17.26	0.053	17.16	0.052
3	64QAM	1	8	17.17	0.052	17.56	0.057	17.54	0.057
3	64QAM	1	14	17.54	0.057	17.44	0.055	17.37	0.055
3	64QAM	8	0	16.70	0.047	16.61	0.046	16.50	0.045
3	64QAM	8	4	16.85	0.048	16.57	0.045	16.59	0.046
3	64QAM	8	7	16.66	0.046	16.65	0.046	16.81	0.048
3	64QAM	15	0	16.40	0.044	16.57	0.045	16.62	0.046



LTE Band 12				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23017		23095		23173	
Frequency (MHz)				699.7		707.5		715.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.38	0.069	18.49	0.071	18.30	0.068
1.4	QPSK	1	3	18.47	0.070	18.45	0.070	18.46	0.070
1.4	QPSK	1	5	18.36	0.069	18.19	0.066	18.27	0.067
1.4	QPSK	3	0	17.45	0.056	17.56	0.057	17.28	0.053
1.4	QPSK	3	1	17.42	0.055	17.33	0.054	17.36	0.054
1.4	QPSK	3	3	17.35	0.054	17.55	0.057	17.41	0.055
1.4	QPSK	6	0	17.18	0.052	17.32	0.054	17.33	0.054
1.4	16QAM	1	0	17.34	0.054	17.27	0.053	17.31	0.054
1.4	16QAM	1	3	17.25	0.053	17.19	0.052	17.24	0.053
1.4	16QAM	1	5	17.39	0.055	17.55	0.057	17.33	0.054
1.4	16QAM	3	0	16.63	0.046	16.77	0.048	16.65	0.046
1.4	16QAM	3	1	16.63	0.046	16.68	0.047	16.83	0.048
1.4	16QAM	3	3	16.64	0.046	16.87	0.049	16.89	0.049
1.4	16QAM	6	0	16.68	0.047	16.65	0.046	16.64	0.046
1.4	64QAM	1	0	17.28	0.053	17.30	0.054	17.12	0.052
1.4	64QAM	1	3	17.14	0.052	17.54	0.057	17.51	0.056
1.4	64QAM	1	5	17.53	0.057	17.49	0.056	17.34	0.054
1.4	64QAM	3	0	16.67	0.046	16.66	0.046	16.47	0.044
1.4	64QAM	3	1	16.82	0.048	16.62	0.046	16.56	0.045
1.4	64QAM	3	3	16.63	0.046	16.70	0.047	16.78	0.048
1.4	64QAM	6	0	16.37	0.043	16.62	0.046	16.59	0.046



LTE Band 17				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	18.45	0.070	18.60	0.072	18.44	0.070
10	QPSK	1	25	18.53	0.071	18.58	0.072	18.37	0.069
10	QPSK	1	49	18.42	0.070	18.53	0.071	18.42	0.070
10	QPSK	25	0	17.28	0.053	17.60	0.058	17.44	0.055
10	QPSK	25	12	17.37	0.055	17.49	0.056	17.49	0.056
10	QPSK	25	25	17.33	0.054	17.48	0.056	17.40	0.055
10	QPSK	50	0	17.43	0.055	17.45	0.056	17.47	0.056
10	16QAM	1	0	17.44	0.055	17.42	0.055	17.55	0.057
10	16QAM	1	25	17.27	0.053	17.57	0.057	17.21	0.053
10	16QAM	1	49	17.45	0.056	17.16	0.052	17.28	0.053
10	16QAM	25	0	16.58	0.045	16.48	0.044	16.50	0.045
10	16QAM	25	12	16.46	0.044	16.71	0.047	16.59	0.046
10	16QAM	25	25	16.61	0.046	16.52	0.045	16.57	0.045
10	16QAM	50	0	16.47	0.044	16.57	0.045	16.53	0.045
10	64QAM	1	0	17.39	0.055	17.27	0.053	17.33	0.054
10	64QAM	1	25	17.49	0.056	17.26	0.053	17.45	0.056
10	64QAM	1	49	17.48	0.056	17.50	0.056	17.25	0.053
10	64QAM	25	0	16.58	0.045	16.59	0.046	16.63	0.046
10	64QAM	25	12	16.54	0.045	16.56	0.045	16.56	0.045
10	64QAM	25	25	16.52	0.045	16.49	0.045	16.47	0.044
10	64QAM	50	0	16.45	0.044	16.61	0.046	16.64	0.046



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	18.41	0.069	18.54	0.071	18.38	0.069
5	QPSK	1	12	18.49	0.071	18.51	0.071	18.31	0.068
5	QPSK	1	24	18.38	0.069	18.46	0.070	18.36	0.069
5	QPSK	12	0	17.24	0.053	17.53	0.057	17.38	0.055
5	QPSK	12	7	17.33	0.054	17.42	0.055	17.43	0.055
5	QPSK	12	13	17.29	0.054	17.41	0.055	17.34	0.054
5	QPSK	25	0	17.39	0.055	17.38	0.055	17.41	0.055
5	16QAM	1	0	17.40	0.055	17.35	0.054	17.49	0.056
5	16QAM	1	12	17.23	0.053	17.50	0.056	17.15	0.052
5	16QAM	1	24	17.41	0.055	17.09	0.051	17.22	0.053
5	16QAM	12	0	16.54	0.045	16.51	0.045	16.45	0.044
5	16QAM	12	7	16.47	0.044	16.64	0.046	16.53	0.045
5	16QAM	12	13	16.57	0.045	16.45	0.044	16.51	0.045
5	16QAM	25	0	16.46	0.044	16.50	0.045	16.47	0.044
5	64QAM	1	0	17.35	0.054	17.20	0.052	17.27	0.053
5	64QAM	1	12	17.45	0.056	17.19	0.052	17.39	0.055
5	64QAM	1	24	17.44	0.055	17.43	0.055	17.19	0.052
5	64QAM	12	0	16.54	0.045	16.52	0.045	16.57	0.045
5	64QAM	12	7	16.50	0.045	16.49	0.045	16.50	0.045
5	64QAM	12	13	16.48	0.044	16.42	0.044	16.41	0.044
5	64QAM	25	0	16.41	0.044	16.54	0.045	16.58	0.045



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	23.34	0.216	23.40	0.219	23.37	0.217
20	QPSK	1	49	23.29	0.213	23.27	0.212	23.25	0.211
20	QPSK	1	99	23.31	0.214	23.26	0.212	23.22	0.210
20	QPSK	50	0	22.91	0.195	22.98	0.199	22.86	0.193
20	QPSK	50	24	22.88	0.194	22.85	0.193	22.80	0.191
20	QPSK	50	50	22.75	0.188	22.82	0.191	22.71	0.187
20	QPSK	100	0	22.90	0.195	22.81	0.191	22.70	0.186
20	16QAM	1	0	22.80	0.191	22.78	0.190	22.74	0.188
20	16QAM	1	49	22.69	0.186	22.82	0.191	22.71	0.187
20	16QAM	1	99	22.67	0.185	22.53	0.179	22.58	0.181
20	16QAM	50	0	21.98	0.158	22.11	0.163	22.02	0.159
20	16QAM	50	24	22.01	0.159	21.99	0.158	21.97	0.157
20	16QAM	50	50	21.90	0.155	21.91	0.155	21.98	0.158
20	16QAM	100	0	22.09	0.162	21.97	0.157	21.99	0.158
20	64QAM	1	0	22.95	0.197	23.03	0.201	22.85	0.193
20	64QAM	1	49	22.68	0.185	22.81	0.191	22.69	0.186
20	64QAM	1	99	22.77	0.189	22.83	0.192	22.78	0.190
20	64QAM	50	0	22.04	0.160	22.13	0.163	22.19	0.166
20	64QAM	50	24	21.76	0.150	22.02	0.159	21.92	0.156
20	64QAM	50	50	21.90	0.155	21.99	0.158	22.01	0.159
20	64QAM	100	0	21.92	0.156	21.97	0.157	22.00	0.158



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	23.34	0.216	23.35	0.216	23.32	0.215
15	QPSK	1	37	23.29	0.213	23.27	0.212	23.25	0.211
15	QPSK	1	74	23.31	0.214	23.26	0.212	23.22	0.210
15	QPSK	36	0	22.91	0.195	22.98	0.199	22.86	0.193
15	QPSK	36	20	22.88	0.194	22.85	0.193	22.80	0.191
15	QPSK	36	39	22.75	0.188	22.82	0.191	22.71	0.187
15	QPSK	75	0	22.90	0.195	22.81	0.191	22.70	0.186
15	16QAM	1	0	22.80	0.191	22.78	0.190	22.74	0.188
15	16QAM	1	37	22.69	0.186	22.82	0.191	22.71	0.187
15	16QAM	1	74	22.67	0.185	22.53	0.179	22.58	0.181
15	16QAM	36	0	21.98	0.158	22.11	0.163	22.02	0.159
15	16QAM	36	20	22.01	0.159	21.99	0.158	21.97	0.157
15	16QAM	36	39	21.90	0.155	21.91	0.155	21.98	0.158
15	16QAM	75	0	22.09	0.162	21.97	0.157	21.99	0.158
15	64QAM	1	0	22.95	0.197	23.03	0.201	22.85	0.193
15	64QAM	1	37	22.68	0.185	22.81	0.191	22.69	0.186
15	64QAM	1	74	22.77	0.189	22.83	0.192	22.78	0.190
15	64QAM	36	0	22.04	0.160	22.13	0.163	22.19	0.166
15	64QAM	36	20	21.76	0.150	22.02	0.159	21.92	0.156
15	64QAM	36	39	21.90	0.155	21.99	0.158	22.01	0.159
15	64QAM	75	0	21.92	0.156	21.97	0.157	22.00	0.158



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	23.27	0.212	23.38	0.218	23.30	0.214
10	QPSK	1	25	23.22	0.210	23.25	0.211	23.18	0.208
10	QPSK	1	49	23.24	0.211	23.24	0.211	23.15	0.207
10	QPSK	25	0	22.84	0.192	22.96	0.198	22.79	0.190
10	QPSK	25	12	22.81	0.191	22.83	0.192	22.73	0.187
10	QPSK	25	25	22.68	0.185	22.80	0.191	22.64	0.184
10	QPSK	50	0	22.83	0.192	22.79	0.190	22.63	0.183
10	16QAM	1	0	22.73	0.187	22.76	0.189	22.67	0.185
10	16QAM	1	25	22.62	0.183	22.80	0.191	22.64	0.184
10	16QAM	1	49	22.60	0.182	22.51	0.178	22.51	0.178
10	16QAM	25	0	21.91	0.155	22.09	0.162	21.95	0.157
10	16QAM	25	12	21.94	0.156	21.97	0.157	21.90	0.155
10	16QAM	25	25	21.83	0.152	21.89	0.155	21.91	0.155
10	16QAM	50	0	22.02	0.159	21.95	0.157	21.92	0.156
10	64QAM	1	0	22.88	0.194	23.01	0.200	22.78	0.190
10	64QAM	1	25	22.61	0.182	22.79	0.190	22.62	0.183
10	64QAM	1	49	22.70	0.186	22.81	0.191	22.71	0.187
10	64QAM	25	0	21.97	0.157	22.11	0.163	22.12	0.163
10	64QAM	25	12	21.69	0.148	22.00	0.158	21.85	0.153
10	64QAM	25	25	21.83	0.152	21.97	0.157	21.94	0.156
10	64QAM	50	0	21.85	0.153	21.95	0.157	21.93	0.156



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	23.21	0.209	23.29	0.213	23.24	0.211
5	QPSK	1	12	23.16	0.207	23.16	0.207	23.12	0.205
5	QPSK	1	24	23.18	0.208	23.15	0.207	23.09	0.204
5	QPSK	12	0	22.78	0.190	22.87	0.194	22.73	0.187
5	QPSK	12	7	22.75	0.188	22.74	0.188	22.67	0.185
5	QPSK	12	13	22.62	0.183	22.71	0.187	22.58	0.181
5	QPSK	25	0	22.77	0.189	22.70	0.186	22.57	0.181
5	16QAM	1	0	22.67	0.185	22.67	0.185	22.61	0.182
5	16QAM	1	12	22.56	0.180	22.71	0.187	22.58	0.181
5	16QAM	1	24	22.54	0.179	22.42	0.175	22.45	0.176
5	16QAM	12	0	21.85	0.153	22.00	0.158	21.89	0.155
5	16QAM	12	7	21.88	0.154	21.88	0.154	21.84	0.153
5	16QAM	12	13	21.77	0.150	21.80	0.151	21.85	0.153
5	16QAM	25	0	21.96	0.157	21.86	0.153	21.86	0.153
5	64QAM	1	0	22.82	0.191	22.92	0.196	22.72	0.187
5	64QAM	1	12	22.55	0.180	22.70	0.186	22.56	0.180
5	64QAM	1	24	22.64	0.184	22.72	0.187	22.65	0.184
5	64QAM	12	0	21.91	0.155	22.02	0.159	22.06	0.161
5	64QAM	12	7	21.63	0.146	21.91	0.155	21.79	0.151
5	64QAM	12	13	21.77	0.150	21.88	0.154	21.88	0.154
5	64QAM	25	0	21.79	0.151	21.86	0.153	21.87	0.154





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	23.22	0.210	23.31	0.214	23.25	0.211
3	QPSK	1	8	23.17	0.207	23.18	0.208	23.13	0.206
3	QPSK	1	14	23.19	0.208	23.17	0.207	23.10	0.204
3	QPSK	8	0	22.79	0.190	22.89	0.195	22.74	0.188
3	QPSK	8	4	22.76	0.189	22.76	0.189	22.68	0.185
3	QPSK	8	7	22.63	0.183	22.73	0.187	22.59	0.182
3	QPSK	15	0	22.78	0.190	22.72	0.187	22.58	0.181
3	16QAM	1	0	22.68	0.185	22.69	0.186	22.62	0.183
3	16QAM	1	8	22.57	0.181	22.73	0.187	22.59	0.182
3	16QAM	1	14	22.55	0.180	22.44	0.175	22.46	0.176
3	16QAM	8	0	21.86	0.153	22.02	0.159	21.90	0.155
3	16QAM	8	4	21.89	0.155	21.90	0.155	21.85	0.153
3	16QAM	8	7	21.78	0.151	21.82	0.152	21.86	0.153
3	16QAM	15	0	21.97	0.157	21.88	0.154	21.87	0.154
3	64QAM	1	0	22.83	0.192	22.94	0.197	22.73	0.187
3	64QAM	1	8	22.56	0.180	22.72	0.187	22.57	0.181
3	64QAM	1	14	22.65	0.184	22.74	0.188	22.66	0.185
3	64QAM	8	0	21.92	0.156	22.04	0.160	22.07	0.161
3	64QAM	8	4	21.64	0.146	21.93	0.156	21.80	0.151
3	64QAM	8	7	21.78	0.151	21.90	0.155	21.89	0.155
3	64QAM	15	0	21.80	0.151	21.88	0.154	21.88	0.154



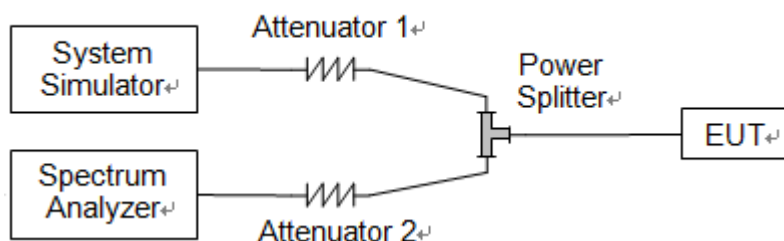
LTE Band 66				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				131979		132322		132665	
Frequency (MHz)				1710.7		1745		1779.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	23.18	0.208	23.34	0.216	23.21	0.209
1.4	QPSK	1	3	23.13	0.206	23.21	0.209	23.09	0.204
1.4	QPSK	1	5	23.15	0.207	23.20	0.209	23.06	0.202
1.4	QPSK	3	0	22.75	0.188	22.92	0.196	22.70	0.186
1.4	QPSK	3	1	22.72	0.187	22.79	0.190	22.64	0.184
1.4	QPSK	3	3	22.59	0.182	22.76	0.189	22.55	0.180
1.4	QPSK	6	0	22.74	0.188	22.75	0.188	22.54	0.179
1.4	16QAM	1	0	22.64	0.184	22.72	0.187	22.58	0.181
1.4	16QAM	1	3	22.53	0.179	22.76	0.189	22.55	0.180
1.4	16QAM	1	5	22.51	0.178	22.47	0.177	22.42	0.175
1.4	16QAM	3	0	21.82	0.152	22.05	0.160	21.86	0.153
1.4	16QAM	3	1	21.85	0.153	21.93	0.156	21.81	0.152
1.4	16QAM	3	3	21.74	0.149	21.85	0.153	21.82	0.152
1.4	16QAM	6	0	21.93	0.156	21.91	0.155	21.83	0.152
1.4	64QAM	1	0	22.79	0.190	22.97	0.198	22.69	0.186
1.4	64QAM	1	3	22.52	0.179	22.75	0.188	22.53	0.179
1.4	64QAM	1	5	22.61	0.182	22.77	0.189	22.62	0.183
1.4	64QAM	3	0	21.88	0.154	22.07	0.161	22.03	0.160
1.4	64QAM	3	1	21.60	0.145	21.96	0.157	21.76	0.150
1.4	64QAM	3	3	21.74	0.149	21.93	0.156	21.85	0.153
1.4	64QAM	6	0	21.76	0.150	21.91	0.155	21.84	0.153

## 2.2. Occupied Bandwidth

### 2.2.1. Requirement

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

### 2.2.2. Test Description



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

### 2.2.3. Test Procedure

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

### 2.2.4. Test Result



LTE Band 2				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.25
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.25
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.10	1.26
	Mid	64QAM	1.10	1.25
	High	QPSK	1.10	1.25
	High	16QAM	1.10	1.25
	High	64QAM	1.10	1.25
3	Low	QPSK	2.71	3.02
	Low	16QAM	2.71	3.04
	Low	64QAM	2.72	3.06
	Mid	QPSK	2.71	3.05
	Mid	16QAM	2.71	3.05
	Mid	64QAM	2.72	3.05
	High	QPSK	2.71	3.04
	High	16QAM	2.71	3.05
	High	64QAM	2.71	3.06
5	Low	QPSK	4.49	4.95
	Low	16QAM	4.49	4.96
	Low	64QAM	4.49	4.95
	Mid	QPSK	4.49	4.97
	Mid	16QAM	4.49	4.99
	Mid	64QAM	4.49	4.95
	High	QPSK	4.50	5.00
	High	16QAM	4.50	4.99
	High	64QAM	4.49	4.95
10	Low	QPSK	9.00	9.86
	Low	16QAM	8.95	9.84
	Low	64QAM	9.00	9.90
	Mid	QPSK	9.01	9.92
	Mid	16QAM	8.98	9.83
	Mid	64QAM	9.00	9.85
	High	QPSK	9.03	9.86
	High	16QAM	8.99	9.87
	High	64QAM	9.00	9.86



15	Low	QPSK	13.48	14.88
	Low	16QAM	13.47	14.80
	Low	64QAM	13.46	14.80
	Mid	QPSK	13.52	15.02
	Mid	16QAM	13.50	15.02
	Mid	64QAM	13.50	14.99
	High	QPSK	13.51	15.02
	High	16QAM	13.48	14.94
	High	64QAM	13.50	14.97
20	Low	QPSK	17.97	19.73
	Low	16QAM	17.94	19.62
	Low	64QAM	17.96	19.73
	Mid	QPSK	18.04	19.98
	Mid	16QAM	18.06	19.85
	Mid	64QAM	18.06	19.72
	High	QPSK	17.98	19.70
	High	16QAM	18.03	19.85
	High	64QAM	18.02	19.79



LTE Band 4				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.25
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.24
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.10	1.26
	Mid	64QAM	1.10	1.25
	High	QPSK	1.10	1.24
	High	16QAM	1.10	1.26
	High	64QAM	1.10	1.26
3	Low	QPSK	2.71	3.05
	Low	16QAM	2.71	3.05
	Low	64QAM	2.72	3.07
	Mid	QPSK	2.71	3.04
	Mid	16QAM	2.71	3.05
	Mid	64QAM	2.71	3.05
	High	QPSK	2.72	3.04
	High	16QAM	2.71	3.05
	High	64QAM	2.72	3.06
5	Low	QPSK	4.49	4.94
	Low	16QAM	4.49	4.98
	Low	64QAM	4.49	4.95
	Mid	QPSK	4.50	4.97
	Mid	16QAM	4.49	4.98
	Mid	64QAM	4.49	4.96
	High	QPSK	4.49	4.94
	High	16QAM	4.49	4.98
	High	64QAM	4.49	4.94
10	Low	QPSK	9.01	9.90
	Low	16QAM	8.98	9.85
	Low	64QAM	9.00	9.92
	Mid	QPSK	9.02	9.84
	Mid	16QAM	8.98	9.84
	Mid	64QAM	9.01	9.89
	High	QPSK	9.02	9.92
	High	16QAM	8.98	9.79
	High	64QAM	9.01	9.89



15	Low	QPSK	13.47	14.98
	Low	16QAM	13.48	14.86
	Low	64QAM	13.49	14.87
	Mid	QPSK	13.49	14.95
	Mid	16QAM	13.50	14.87
	Mid	64QAM	13.50	14.96
	High	QPSK	13.52	14.95
	High	16QAM	13.49	14.93
	High	64QAM	13.50	14.95
20	Low	QPSK	17.98	19.77
	Low	16QAM	18.00	19.72
	Low	64QAM	17.99	19.71
	Mid	QPSK	18.01	19.81
	Mid	16QAM	18.03	19.98
	Mid	64QAM	18.00	19.81
	High	QPSK	18.01	19.85
	High	16QAM	18.03	19.99
	High	64QAM	18.04	19.73



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.24
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.24
	Mid	QPSK	1.10	1.25
	Mid	16QAM	1.10	1.25
	Mid	64QAM	1.10	1.24
	High	QPSK	1.10	1.24
	High	16QAM	1.10	1.26
	High	64QAM	1.10	1.25
3	Low	QPSK	2.71	3.03
	Low	16QAM	2.71	3.05
	Low	64QAM	2.72	3.05
	Mid	QPSK	2.71	3.03
	Mid	16QAM	2.71	3.05
	Mid	64QAM	2.71	3.05
	High	QPSK	2.71	3.04
	High	16QAM	2.71	3.06
	High	64QAM	2.72	3.06
5	Low	QPSK	4.49	4.96
	Low	16QAM	4.50	4.96
	Low	64QAM	4.48	4.94
	Mid	QPSK	4.49	4.95
	Mid	16QAM	4.49	4.95
	Mid	64QAM	4.48	4.94
	High	QPSK	4.49	4.96
	High	16QAM	4.49	4.95
	High	64QAM	4.49	4.95
10	Low	QPSK	8.98	9.90
	Low	16QAM	8.97	9.80
	Low	64QAM	8.99	9.87
	Mid	QPSK	8.99	9.82
	Mid	16QAM	8.96	9.80
	Mid	64QAM	8.98	9.88
	High	QPSK	9.02	9.94
	High	16QAM	8.98	9.87
	High	64QAM	8.99	9.87





LTE Band 7				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.96
	Low	16QAM	4.50	4.98
	Low	64QAM	4.49	4.96
	Mid	QPSK	4.50	4.97
	Mid	16QAM	4.49	4.97
	Mid	64QAM	4.48	4.96
	High	QPSK	4.49	4.99
	High	16QAM	4.49	4.96
	High	64QAM	4.49	4.95
10	Low	QPSK	9.03	9.96
	Low	16QAM	8.98	9.81
	Low	64QAM	8.99	9.84
	Mid	QPSK	9.01	9.91
	Mid	16QAM	8.97	9.84
	Mid	64QAM	9.01	9.89
	High	QPSK	9.02	9.91
	High	16QAM	8.97	9.86
	High	64QAM	8.99	9.85
15	Low	QPSK	13.47	14.95
	Low	16QAM	13.51	14.95
	Low	64QAM	13.49	15.00
	Mid	QPSK	13.49	14.94
	Mid	16QAM	13.49	14.87
	Mid	64QAM	13.49	14.96
	High	QPSK	13.50	14.93
	High	16QAM	13.48	15.0
	High	64QAM	13.49	14.97
20	Low	QPSK	18.02	19.87
	Low	16QAM	18.02	19.63
	Low	64QAM	18.00	19.79
	Mid	QPSK	17.98	19.81
	Mid	16QAM	18.02	19.74
	Mid	64QAM	18.01	19.78
	High	QPSK	17.98	19.8
	High	16QAM	18.03	19.86
	High	64QAM	17.99	19.70



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.24
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.25
	Mid	QPSK	1.09	1.25
	Mid	16QAM	1.10	1.25
	Mid	64QAM	1.10	1.25
	High	QPSK	1.10	1.24
	High	16QAM	1.10	1.26
	High	64QAM	1.10	1.25
3	Low	QPSK	2.70	3.03
	Low	16QAM	2.70	3.03
	Low	64QAM	2.71	3.04
	Mid	QPSK	2.71	3.04
	Mid	16QAM	2.71	3.04
	Mid	64QAM	2.72	3.06
	High	QPSK	2.71	3.04
	High	16QAM	2.70	3.06
	High	64QAM	2.72	3.03
5	Low	QPSK	4.48	4.94
	Low	16QAM	4.48	4.93
	Low	64QAM	4.48	4.92
	Mid	QPSK	4.50	4.97
	Mid	16QAM	4.50	4.98
	Mid	64QAM	4.50	4.95
	High	QPSK	4.48	4.96
	High	16QAM	4.48	4.97
	High	64QAM	4.48	4.92
10	Low	QPSK	9.02	9.85
	Low	16QAM	8.97	9.84
	Low	64QAM	9.00	9.84
	Mid	QPSK	9.04	9.86
	Mid	16QAM	9.00	9.81
	Mid	64QAM	9.01	9.87
	High	QPSK	9.00	9.91
	High	16QAM	8.95	9.81
	High	64QAM	8.97	9.85



LTE Band 17				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.97
	Low	16QAM	4.50	4.98
	Low	64QAM	4.49	4.96
	Mid	QPSK	4.49	4.96
	Mid	16QAM	4.49	4.97
	Mid	64QAM	4.48	4.94
	High	QPSK	4.49	4.95
	High	16QAM	4.49	4.95
	High	64QAM	4.48	4.93
10	Low	QPSK	9.03	9.85
	Low	16QAM	8.98	9.73
	Low	64QAM	9.01	9.85
	Mid	QPSK	9.00	9.87
	Mid	16QAM	8.96	9.80
	Mid	64QAM	8.97	9.80
	High	QPSK	9.00	9.82
	High	16QAM	8.94	9.77
	High	64QAM	8.95	9.85



LTE Band 66				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.25
	Low	16QAM	1.10	1.25
	Low	64QAM	1.10	1.25
	Mid	QPSK	1.10	1.24
	Mid	16QAM	1.10	1.26
	Mid	64QAM	1.09	1.25
	High	QPSK	1.10	1.26
	High	16QAM	1.10	1.25
	High	64QAM	1.10	1.25
3	Low	QPSK	2.71	3.03
	Low	16QAM	2.71	3.06
	Low	64QAM	2.72	3.07
	Mid	QPSK	2.71	3.03
	Mid	16QAM	2.71	3.05
	Mid	64QAM	2.72	3.04
	High	QPSK	2.71	3.03
	High	16QAM	2.72	3.01
	High	64QAM	2.72	3.07
5	Low	QPSK	4.49	4.96
	Low	16QAM	4.49	4.97
	Low	64QAM	4.48	4.94
	Mid	QPSK	4.49	4.96
	Mid	16QAM	4.50	4.95
	Mid	64QAM	4.49	4.95
	High	QPSK	4.49	4.98
	High	16QAM	4.49	4.97
	High	64QAM	4.49	4.95
10	Low	QPSK	9.00	9.89
	Low	16QAM	8.98	9.85
	Low	64QAM	8.99	9.82
	Mid	QPSK	8.99	9.88
	Mid	16QAM	8.98	9.86
	Mid	64QAM	9.01	9.89
	High	QPSK	9.00	9.94
	High	16QAM	8.98	9.89
	High	64QAM	8.99	9.89



15	Low	QPSK	13.51	14.87
	Low	16QAM	13.49	14.96
	Low	64QAM	13.48	14.95
	Mid	QPSK	13.47	14.96
	Mid	16QAM	13.49	14.98
	Mid	64QAM	13.51	14.98
	High	QPSK	13.49	15.03
	High	16QAM	13.51	14.97
	High	64QAM	13.49	14.96
20	Low	QPSK	17.96	19.85
	Low	16QAM	17.98	19.81
	Low	64QAM	17.97	19.75
	Mid	QPSK	18.01	19.75
	Mid	16QAM	18.03	19.81
	Mid	64QAM	18.03	19.74
	High	QPSK	17.95	19.74
	High	16QAM	18.00	19.82
	High	64QAM	18.00	19.74



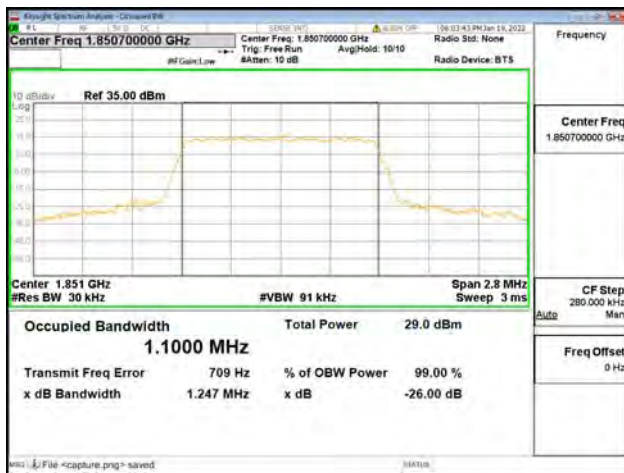
Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



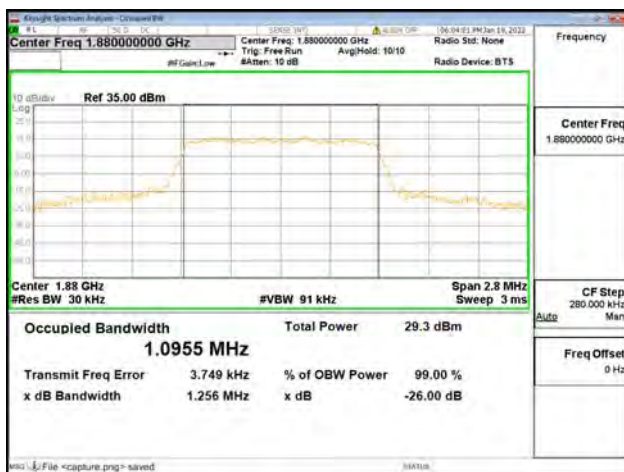
Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



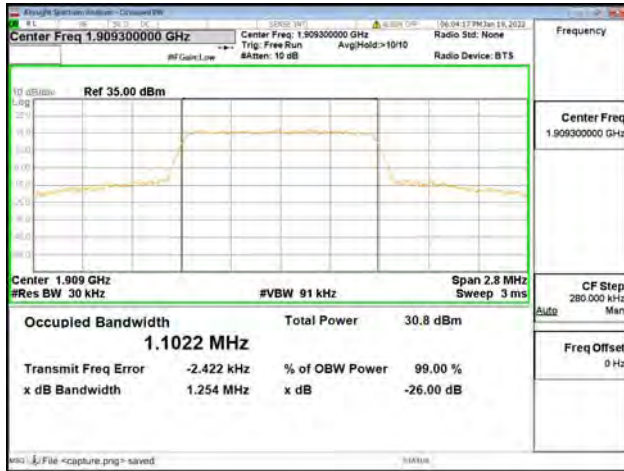
Band2 / 1.4MHz / Mid CH / 64QAM



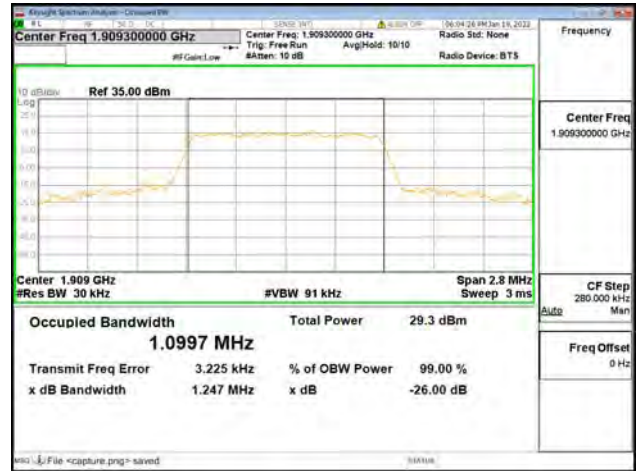




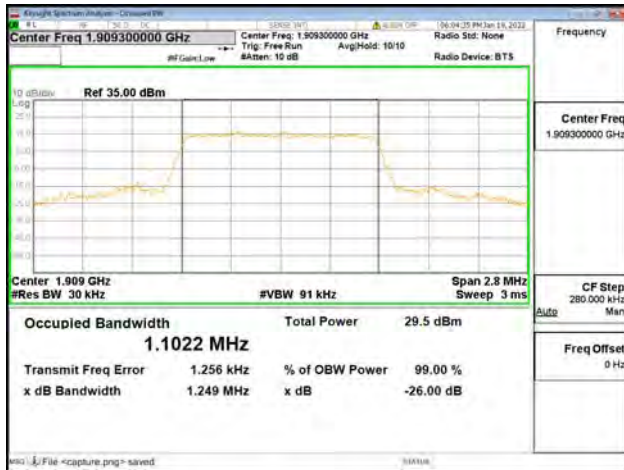
Band2 / 1.4MHz / High CH / QPSK



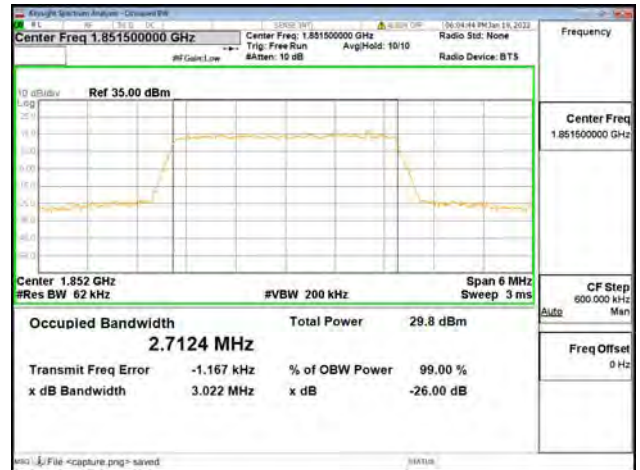
Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM

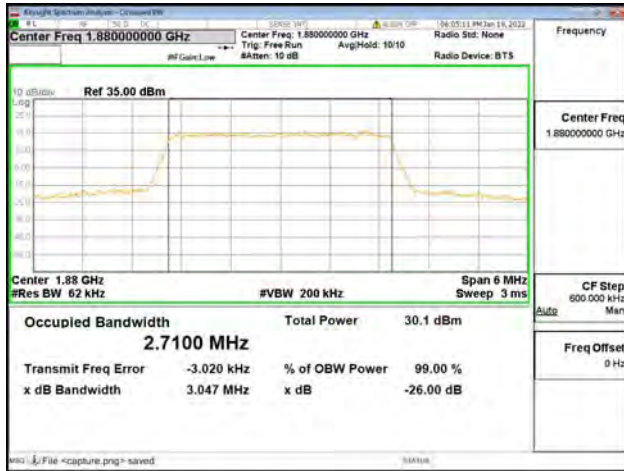


Band2 / 3MHz / Low CH / 64QAM

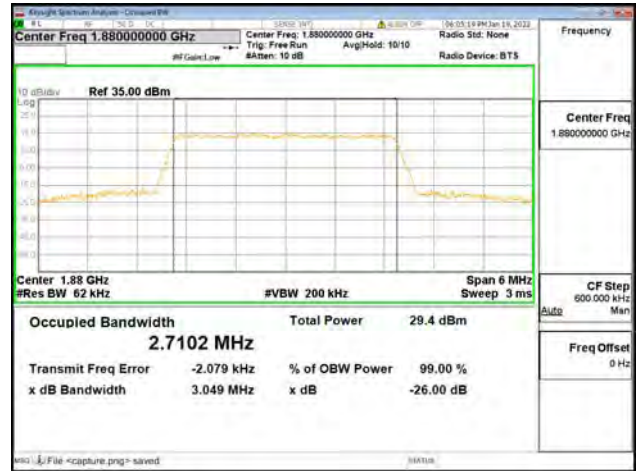




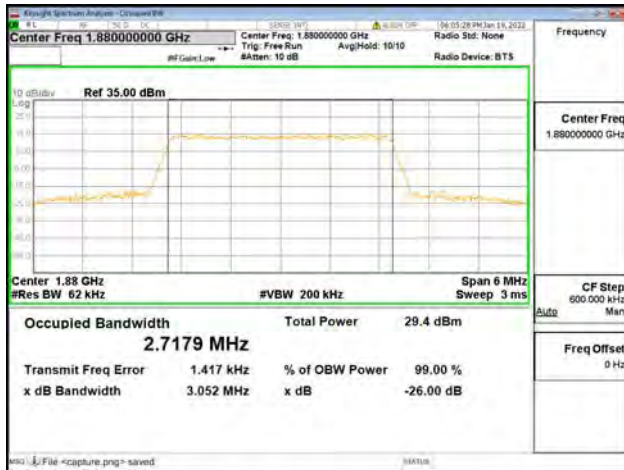
Band2 / 3MHz / Mid CH / QPSK



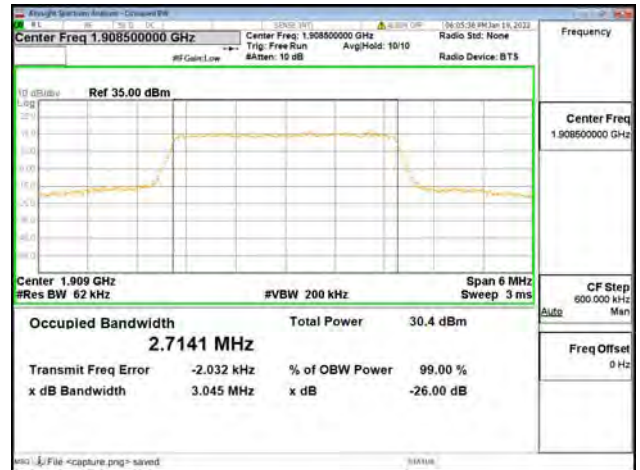
Band2 / 3MHz / Mid CH / 16QAM



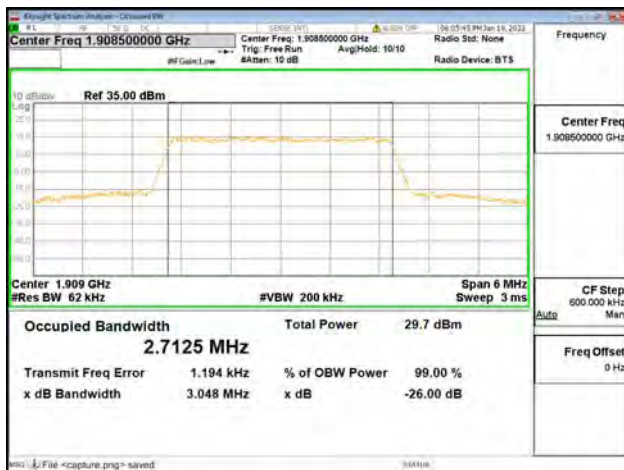
Band2 / 3MHz / Mid CH / 64QAM



Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM



Band2 / 3MHz / High CH / 64QAM







Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM

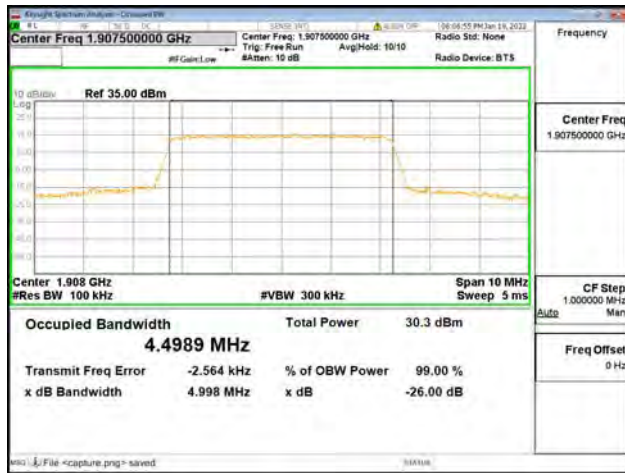


Band2 / 5MHz / Mid CH / 64QAM





Band2 / 5MHz / High CH / QPSK



Band2 / 5MHz / High CH / 16QAM



Band2 / 5MHz / High CH / 64QAM



Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Low CH / 64QAM







Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / Mid CH / 64QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM

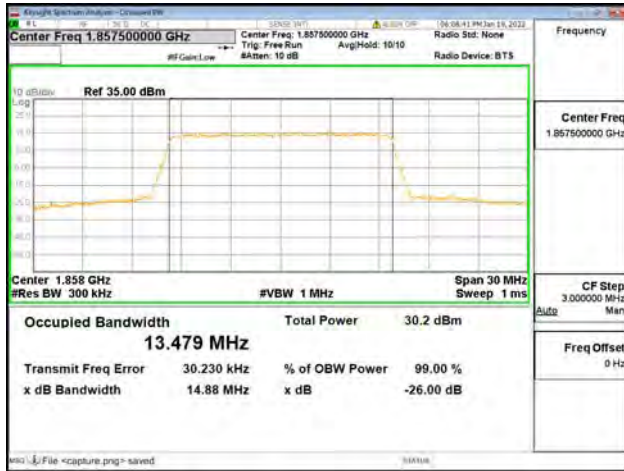


Band2 / 10MHz / High CH / 64QAM

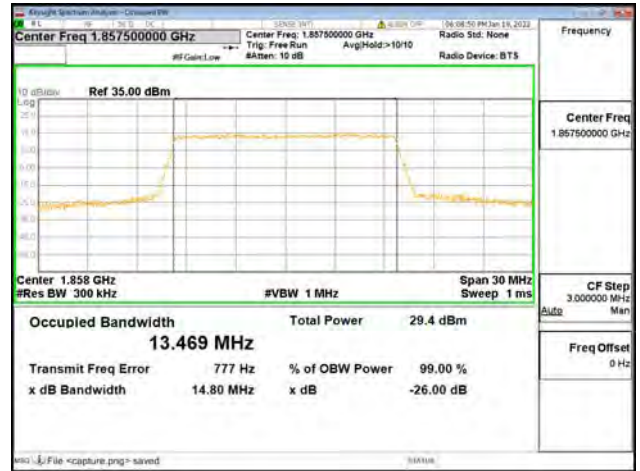




Band2 / 15MHz / Low CH / QPSK



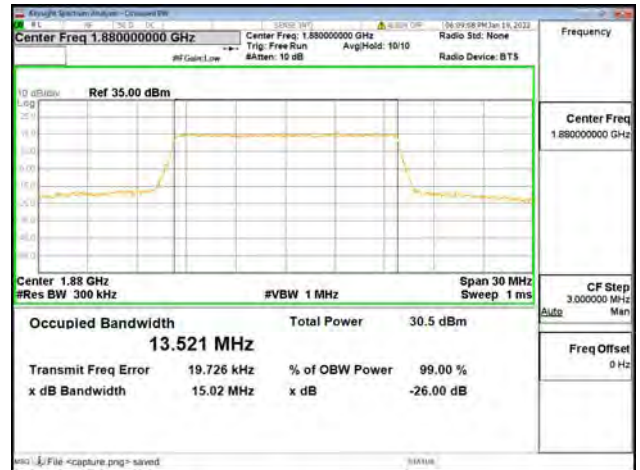
Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Low CH / 64QAM



Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM



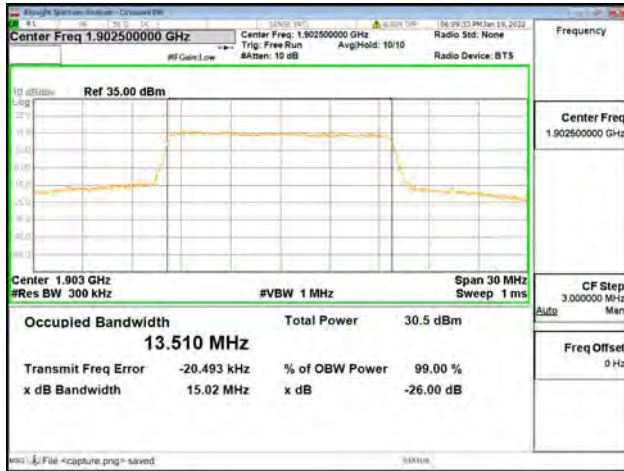
Band2 / 15MHz / Mid CH / 64QAM



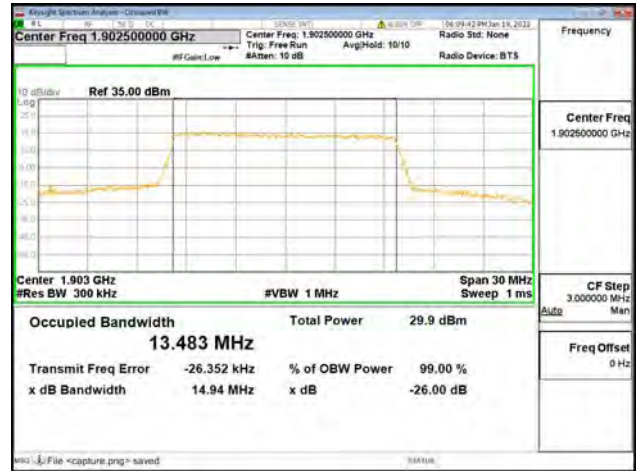




Band2 / 15MHz / High CH / QPSK



Band2 / 15MHz / High CH / 16QAM



Band2 / 15MHz / High CH / 64QAM



Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM



Band2 / 20MHz / Low CH / 64QAM





Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / Mid CH / 64QAM



Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM



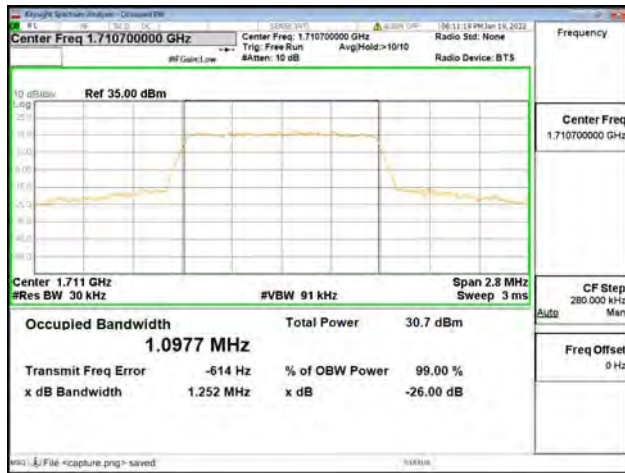
Band2 / 20MHz / High CH / 64QAM



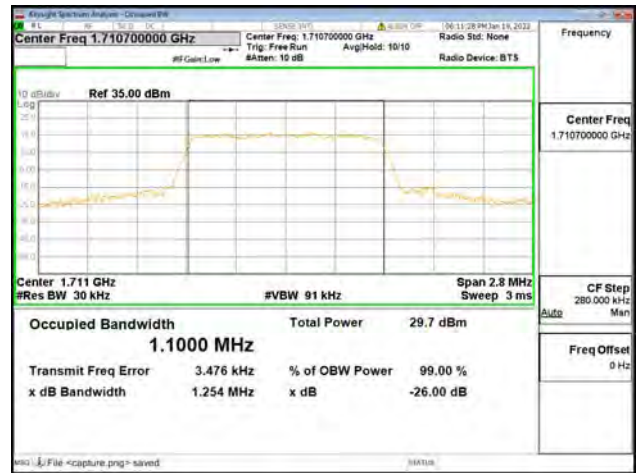




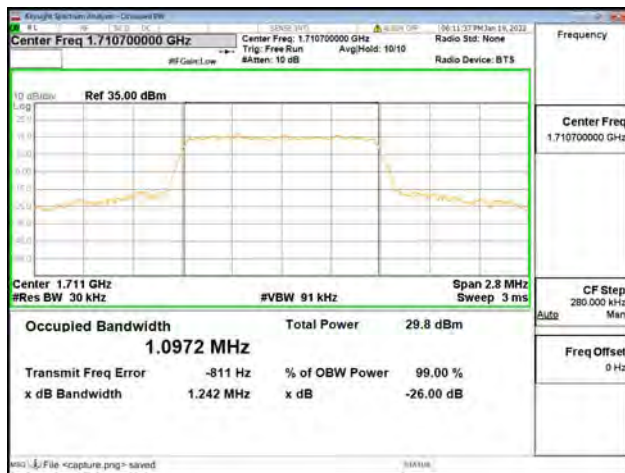
Band4 / 1.4MHz / Low CH / QPSK



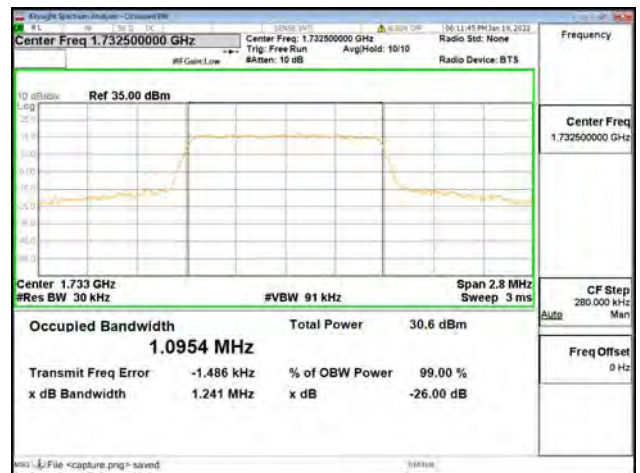
Band4 / 1.4MHz / Low CH / 16QAM



Band4 / 1.4MHz / Low CH / 64QAM



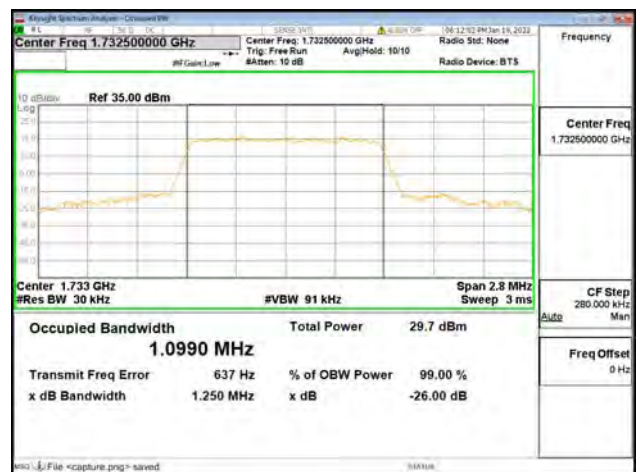
Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM

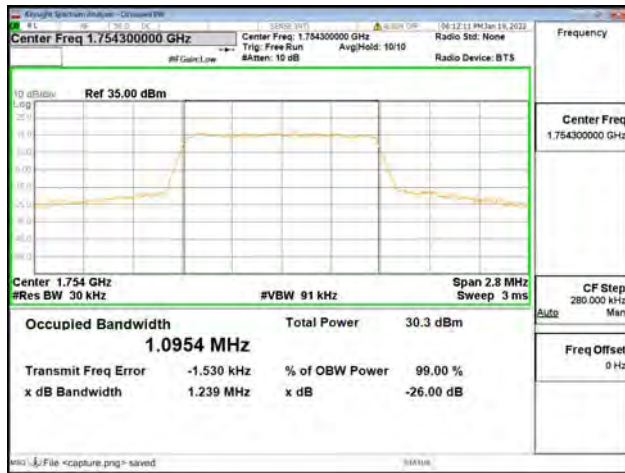


Band4 / 1.4MHz / Mid CH / 64QAM

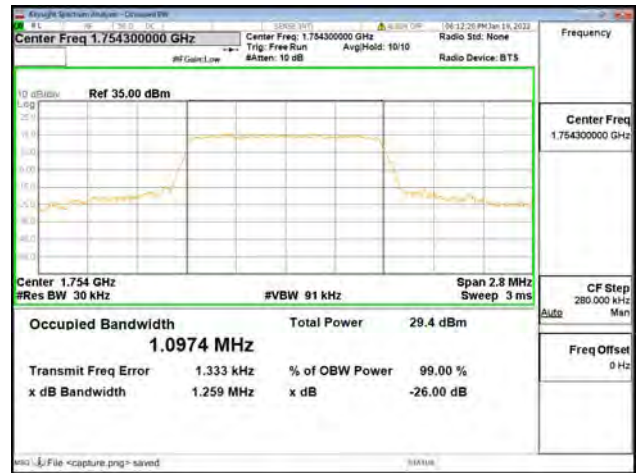




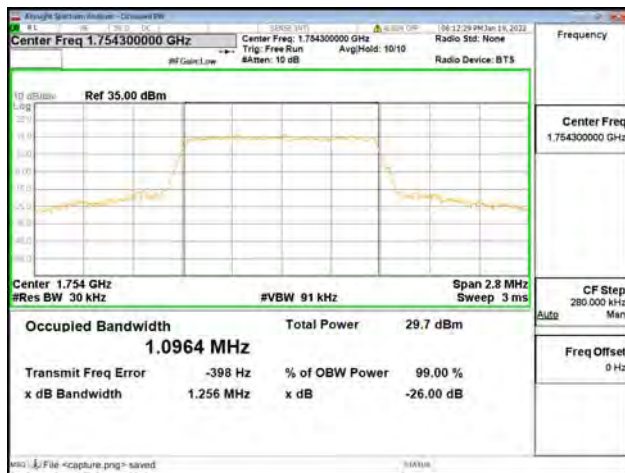
Band4 / 1.4MHz / High CH / QPSK



Band4 / 1.4MHz / High CH / 16QAM



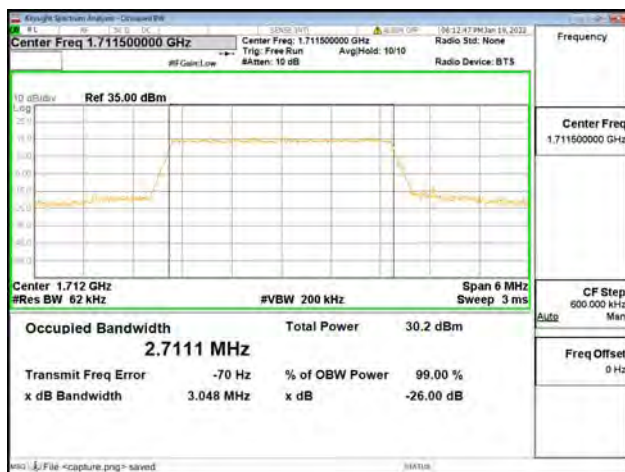
Band4 / 1.4MHz / High CH / 64QAM



Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM



Band4 / 3MHz / Low CH / 64QAM



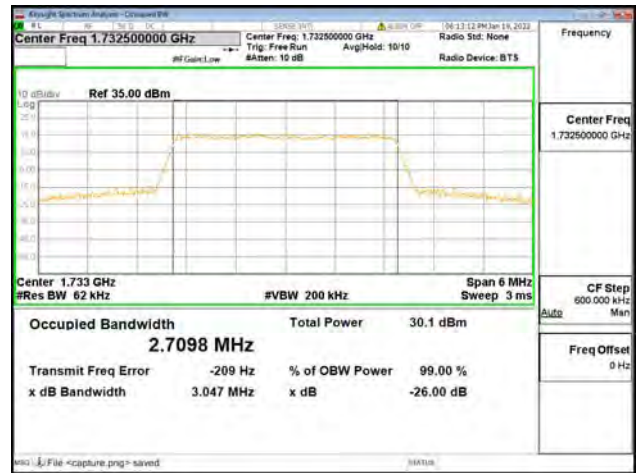




Band4 / 3MHz / Mid CH / QPSK



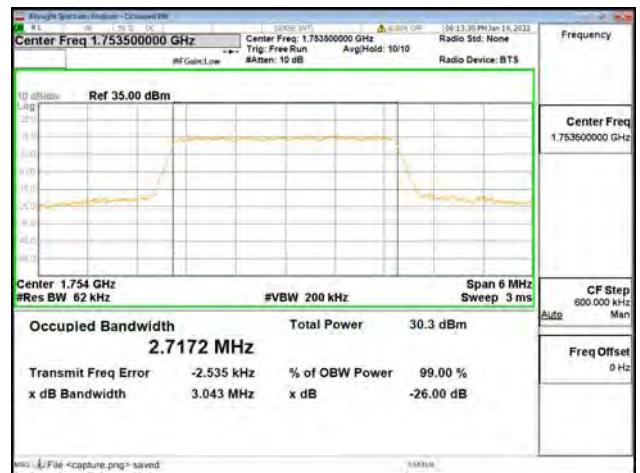
Band4 / 3MHz / Mid CH / 16QAM



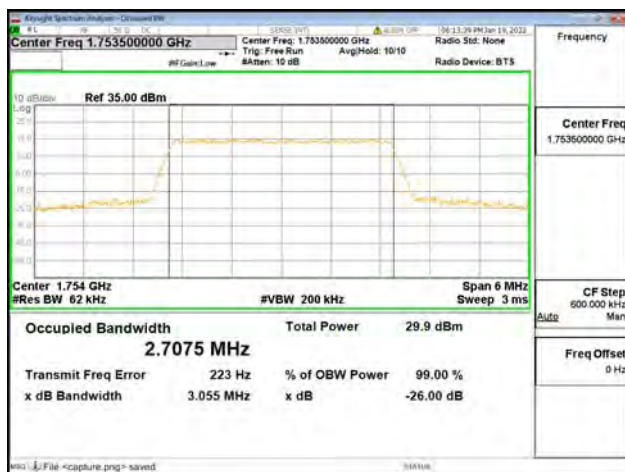
Band4 / 3MHz / Mid CH / 64QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM



Band4 / 3MHz / High CH / 64QAM

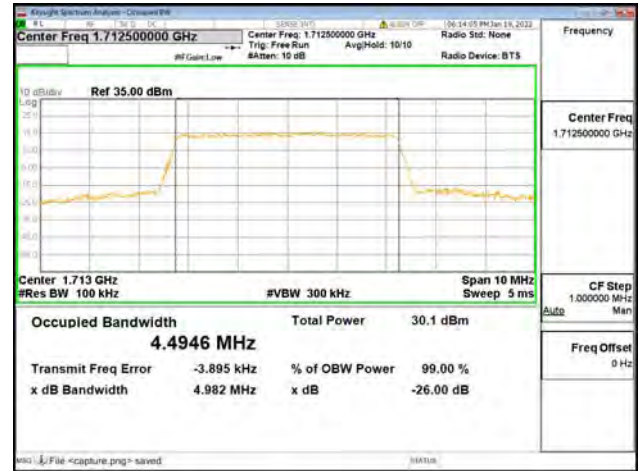




Band4 / 5MHz / Low CH / QPSK



Band4 / 5MHz / Low CH / 16QAM



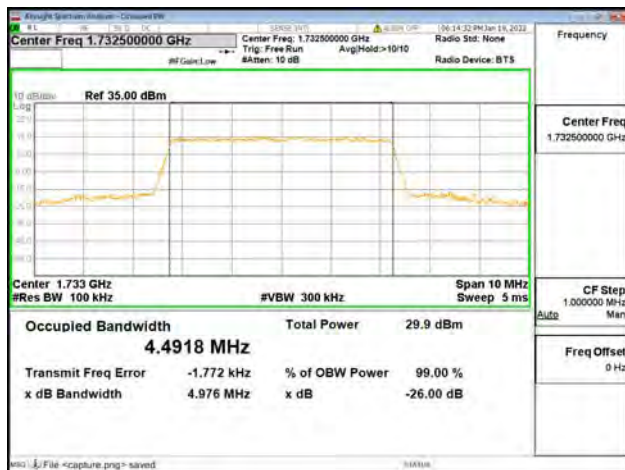
Band4 / 5MHz / Low CH / 64QAM



Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / Mid CH / 64QAM







Band4 / 5MHz / High CH / QPSK



Band4 / 5MHz / High CH / 16QAM



Band4 / 5MHz / High CH / 64QAM



Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM

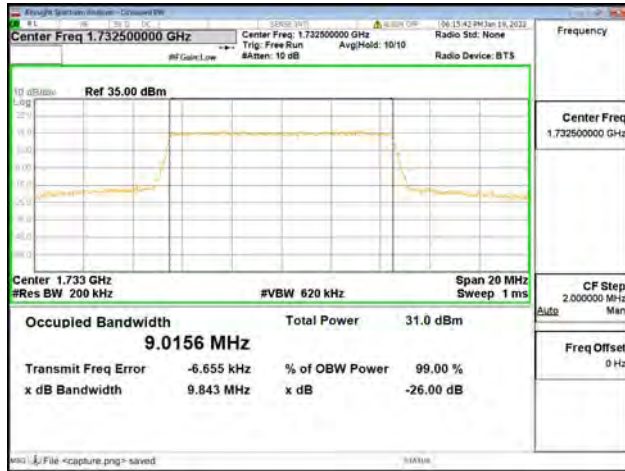


Band4 / 10MHz / Low CH / 64QAM

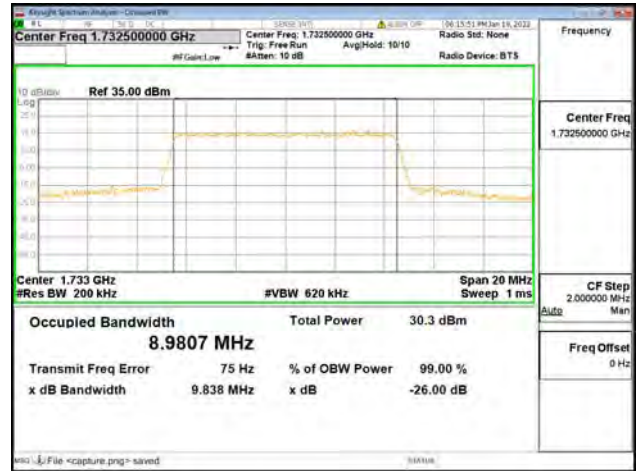




Band4 / 10MHz / Mid CH / QPSK



Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / Mid CH / 64QAM



Band4 / 10MHz / High CH / QPSK



Band4 / 10MHz / High CH / 16QAM



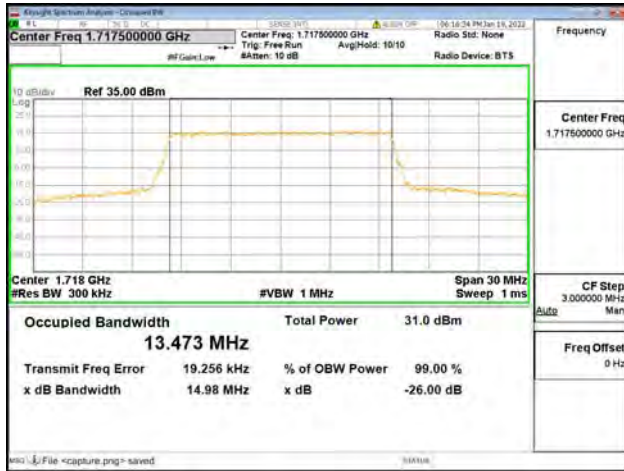
Band4 / 10MHz / High CH / 64QAM



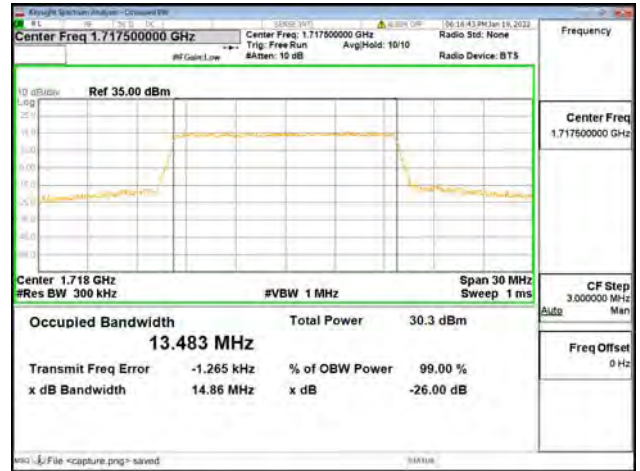




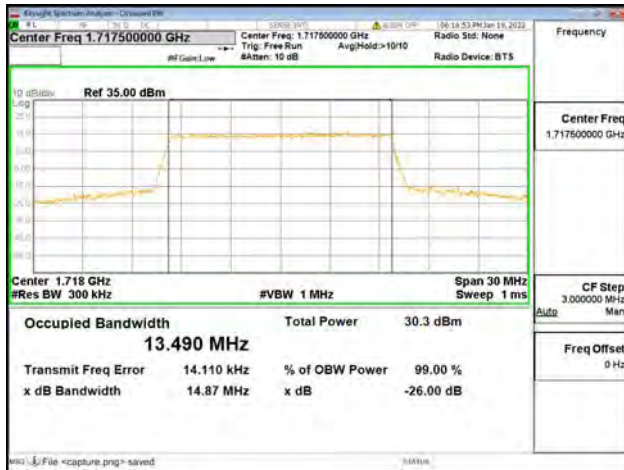
Band4 / 15MHz / Low CH / QPSK



Band4 / 15MHz / Low CH / 16QAM



Band4 / 15MHz / Low CH / 64QAM



Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM



Band4 / 15MHz / Mid CH / 64QAM









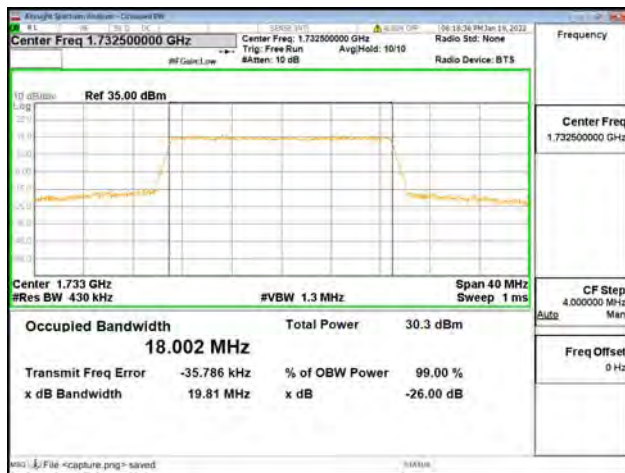
Band4 / 20MHz / Mid CH / QPSK



Band4 / 20MHz / Mid CH / 16QAM



Band4 / 20MHz / Mid CH / 64QAM



Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM

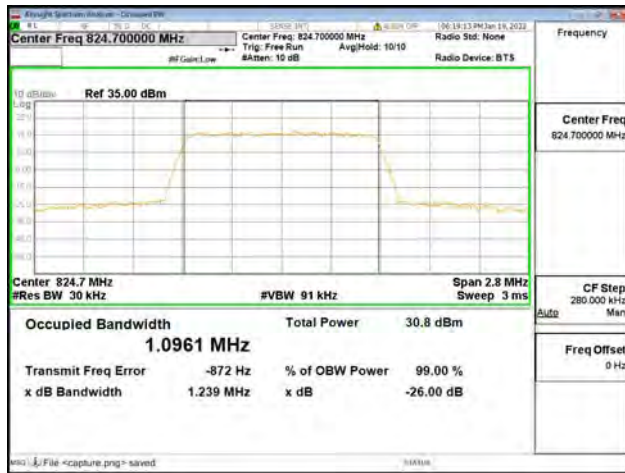


Band4 / 20MHz / High CH / 64QAM

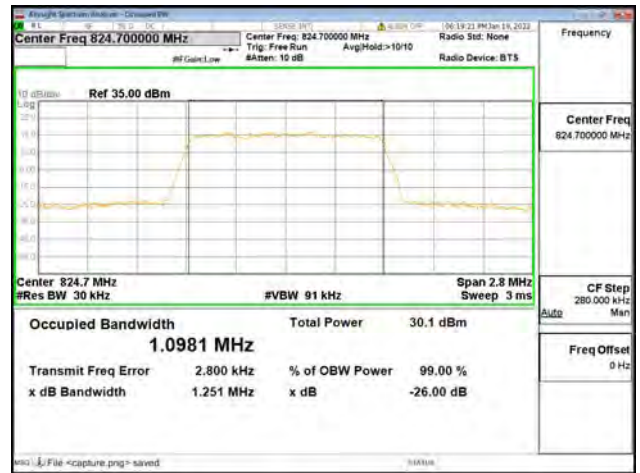




Band5 / 1.4MHz / Low CH / QPSK



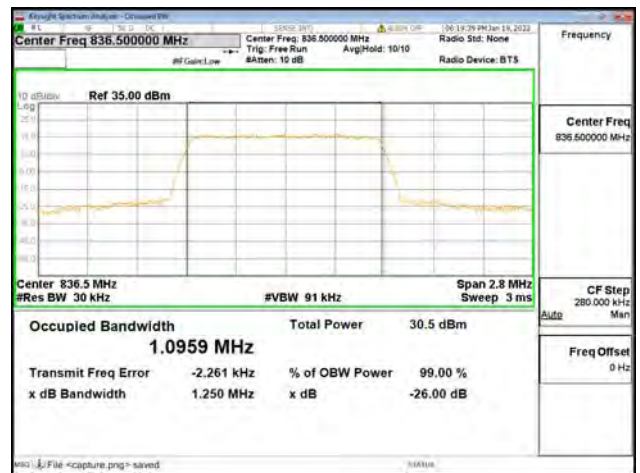
Band5 / 1.4MHz / Low CH / 16QAM



Band5 / 1.4MHz / Low CH / 64QAM



Band5 / 1.4MHz / Mid CH / QPSK



Band5 / 1.4MHz / Mid CH / 16QAM



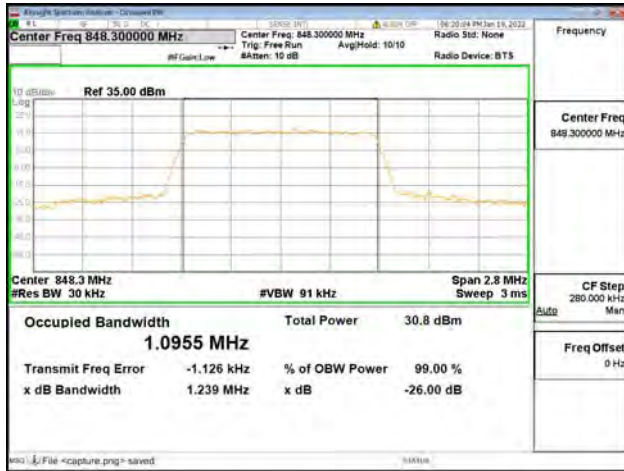
Band5 / 1.4MHz / Mid CH / 64QAM



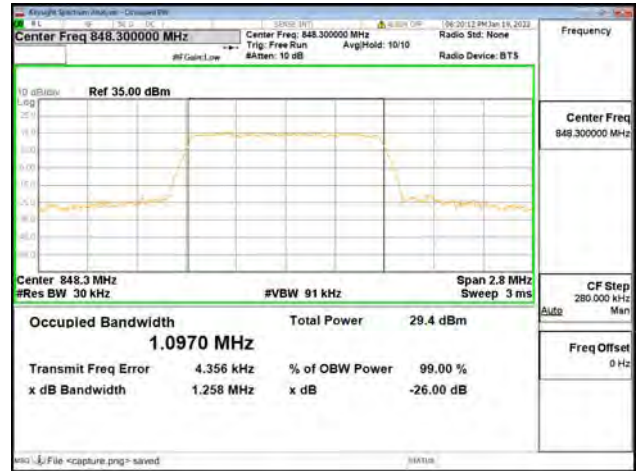




Band5 / 1.4MHz / High CH / QPSK



Band5 / 1.4MHz / High CH / 16QAM



Band5 / 1.4MHz / High CH / 64QAM



Band5 / 3MHz / Low CH / QPSK



Band5 / 3MHz / Low CH / 16QAM

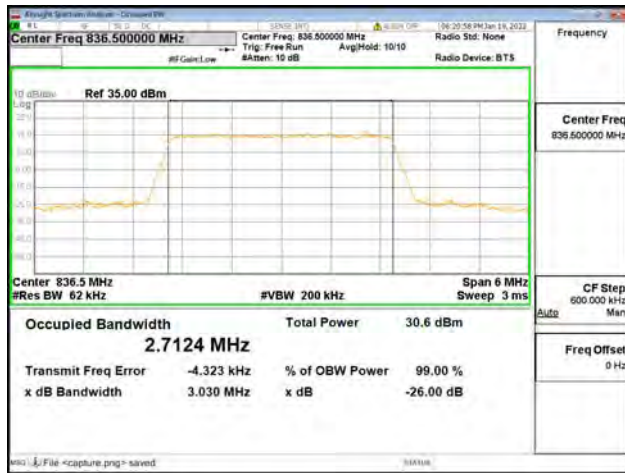


Band5 / 3MHz / Low CH / 64QAM

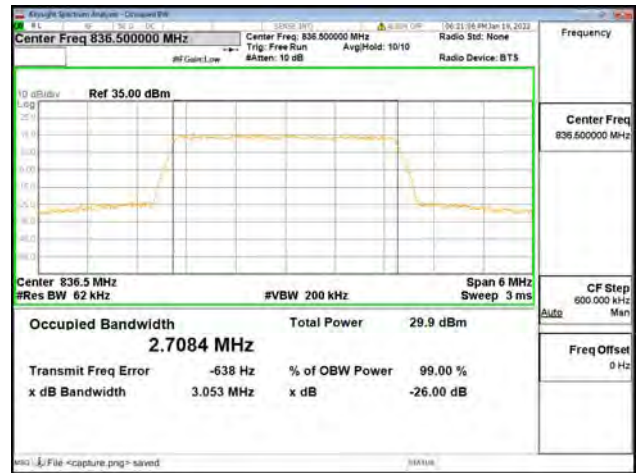




Band5 / 3MHz / Mid CH / QPSK



Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / Mid CH / 64QAM



Band5 / 3MHz / High CH / QPSK



Band5 / 3MHz / High CH / 16QAM



Band5 / 3MHz / High CH / 64QAM







Band5 / 5MHz / Low CH / QPSK



Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Low CH / 64QAM



Band5 / 5MHz / Mid CH / QPSK



Band5 / 5MHz / Mid CH / 16QAM



Band5 / 5MHz / Mid CH / 64QAM





Band5 / 5MHz / High CH / QPSK



Band5 / 5MHz / High CH / 16QAM



Band5 / 5MHz / High CH / 64QAM



Band5 / 10MHz / Low CH / QPSK



Band5 / 10MHz / Low CH / 16QAM



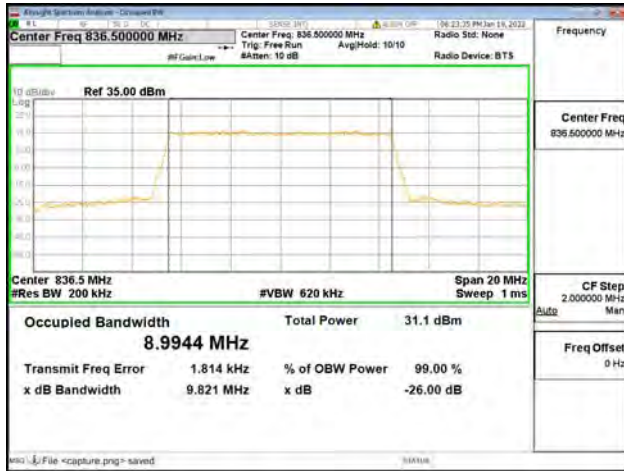
Band5 / 10MHz / Low CH / 64QAM







Band5 / 10MHz / Mid CH / QPSK



Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / Mid CH / 64QAM



Band5 / 10MHz / High CH / QPSK



Band5 / 10MHz / High CH / 16QAM



Band5 / 10MHz / High CH / 64QAM

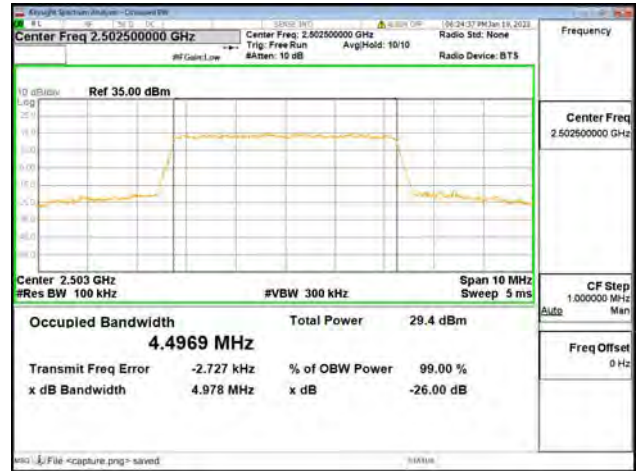




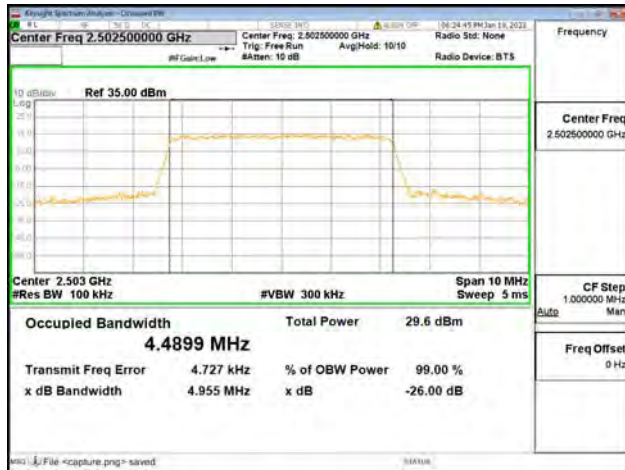
Band7 / 5MHz / Low CH / QPSK



Band7 / 5MHz / Low CH / 16QAM



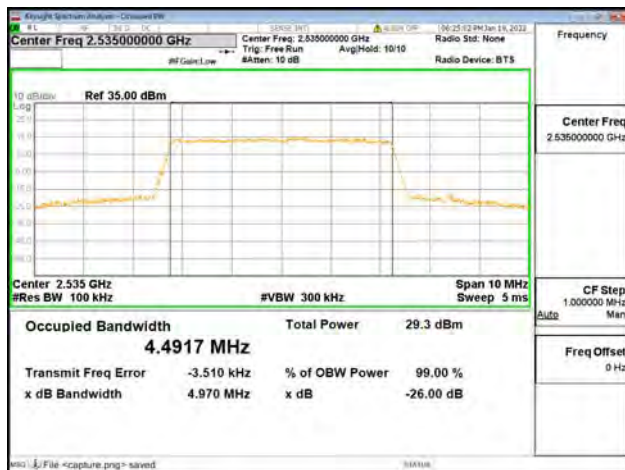
Band7 / 5MHz / Low CH / 64QAM



Band7 / 5MHz / Mid CH / QPSK



Band7 / 5MHz / Mid CH / 16QAM



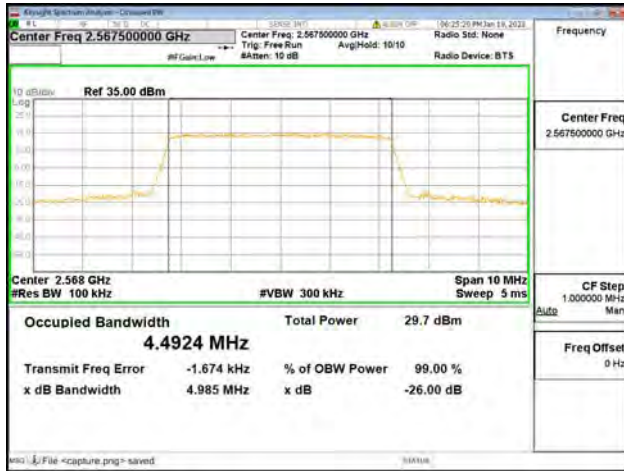
Band7 / 5MHz / Mid CH / 64QAM



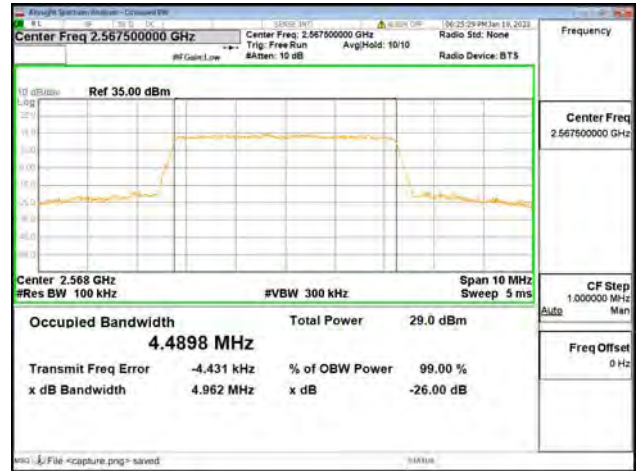




Band7 / 5MHz / High CH / QPSK



Band7 / 5MHz / High CH / 16QAM



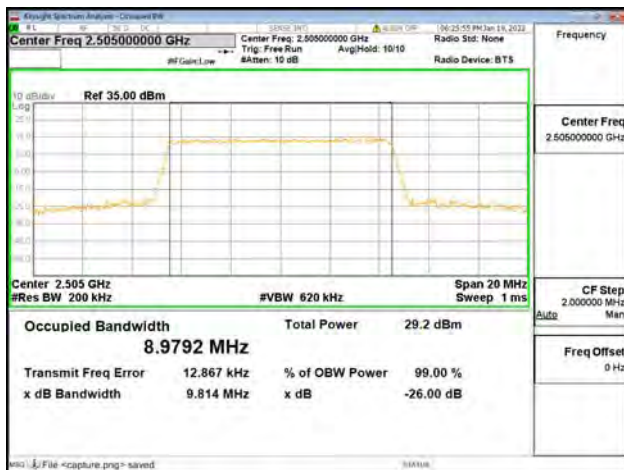
Band7 / 5MHz / High CH / 64QAM



Band7 / 10MHz / Low CH / QPSK



Band7 / 10MHz / Low CH / 16QAM

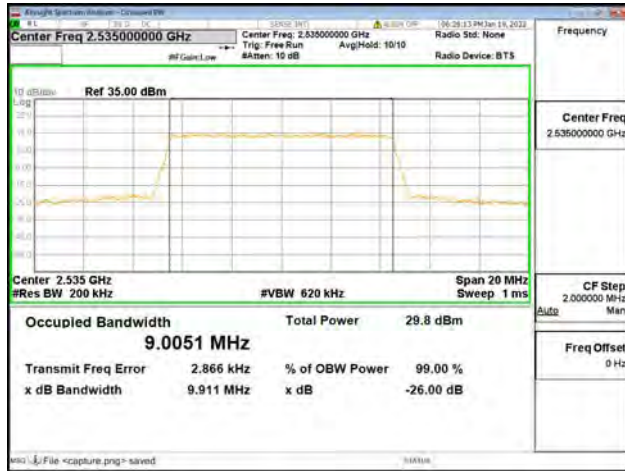


Band7 / 10MHz / Low CH / 64QAM





Band7 / 10MHz / Mid CH / QPSK



Band7 / 10MHz / Mid CH / 16QAM



Band7 / 10MHz / Mid CH / 64QAM



Band7 / 10MHz / High CH / QPSK



Band7 / 10MHz / High CH / 16QAM



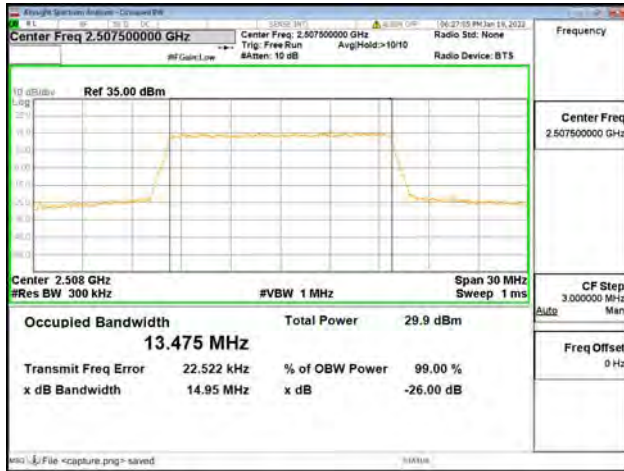
Band7 / 10MHz / High CH / 64QAM







Band7 / 15MHz / Low CH / QPSK



Band7 / 15MHz / Low CH / 16QAM



Band7 / 15MHz / Low CH / 64QAM



Band7 / 15MHz / Mid CH / QPSK



Band7 / 15MHz / Mid CH / 16QAM

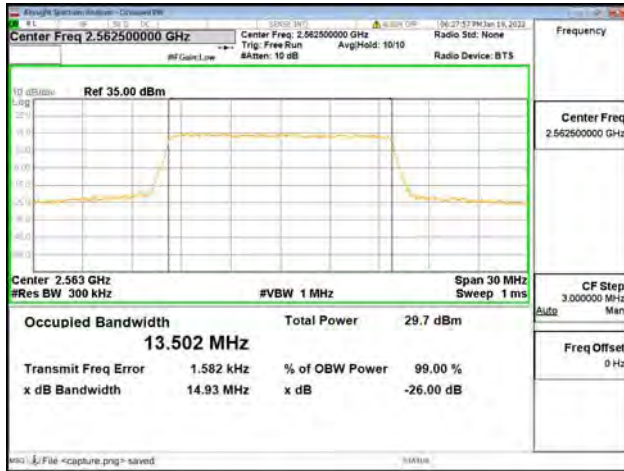


Band7 / 15MHz / Mid CH / 64QAM

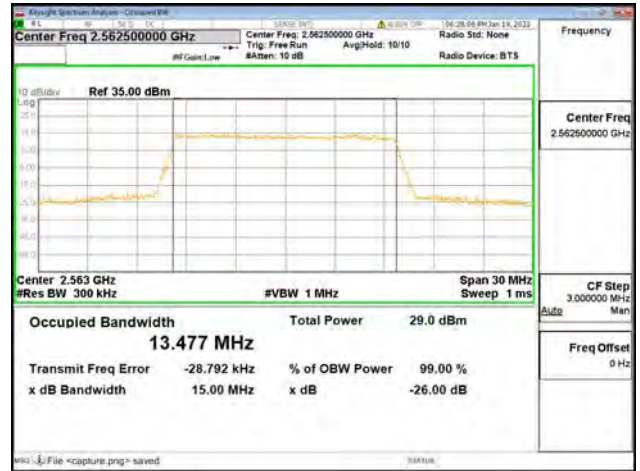




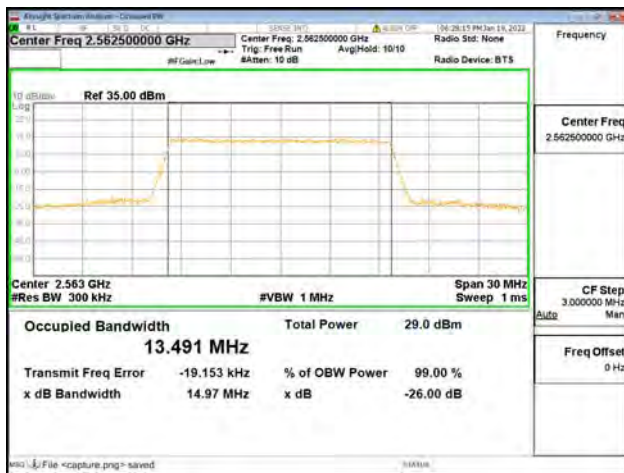
Band7 / 15MHz / High CH / QPSK



Band7 / 15MHz / High CH / 16QAM



Band7 / 15MHz / High CH / 64QAM



Band7 / 20MHz / Low CH / QPSK



Band7 / 20MHz / Low CH / 16QAM



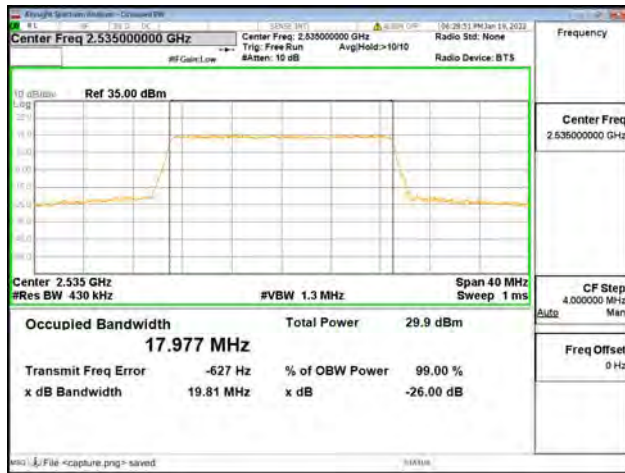
Band7 / 20MHz / Low CH / 64QAM



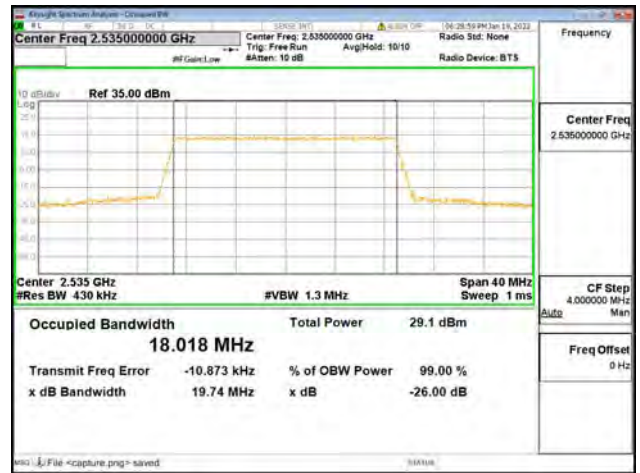




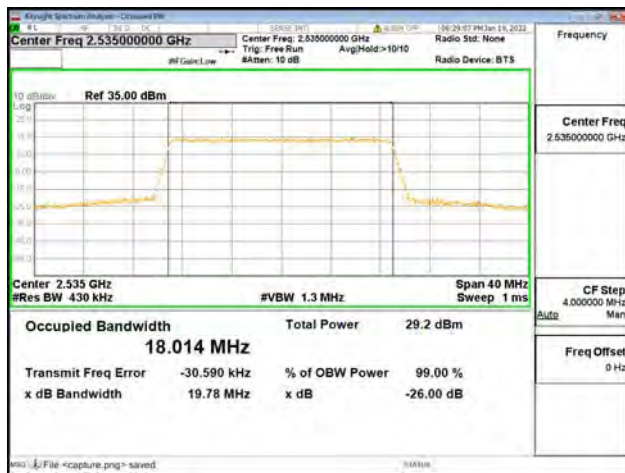
Band7 / 20MHz / Mid CH / QPSK



Band7 / 20MHz / Mid CH / 16QAM



Band7 / 20MHz / Mid CH / 64QAM



Band7 / 20MHz / High CH / QPSK



Band7 / 20MHz / High CH / 16QAM

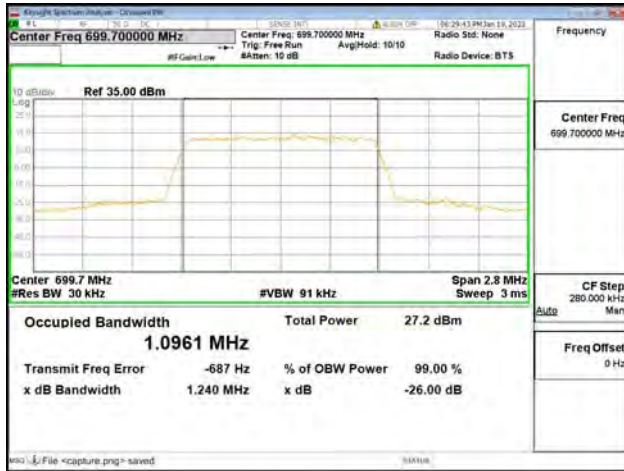


Band7 / 20MHz / High CH / 64QAM

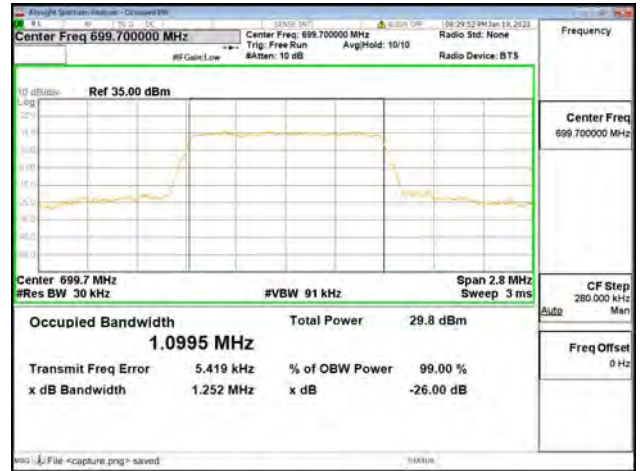




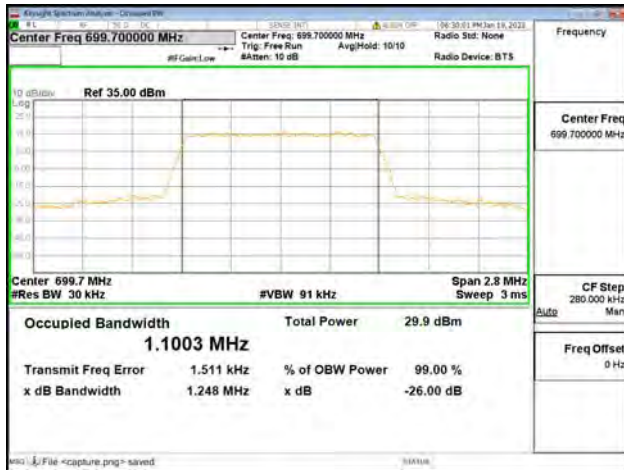
Band12 / 1.4MHz / Low CH / QPSK



Band12 / 1.4MHz / Low CH / 16QAM



Band12 / 1.4MHz / Low CH / 64QAM



Band12 / 1.4MHz / Mid CH / QPSK



Band12 / 1.4MHz / Mid CH / 16QAM



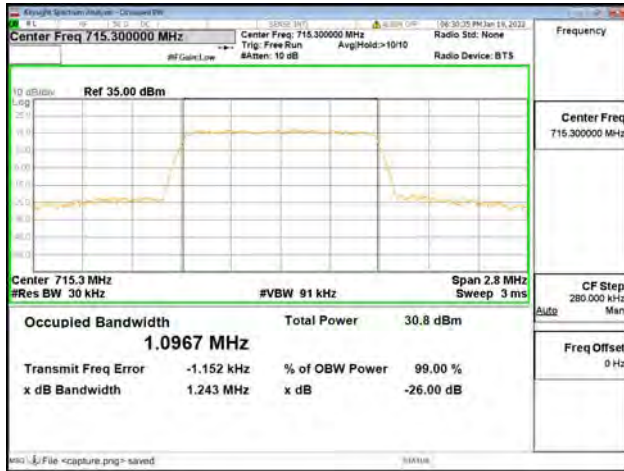
Band12 / 1.4MHz / Mid CH / 64QAM







Band12 / 1.4MHz / High CH / QPSK



Band12 / 1.4MHz / High CH / 16QAM



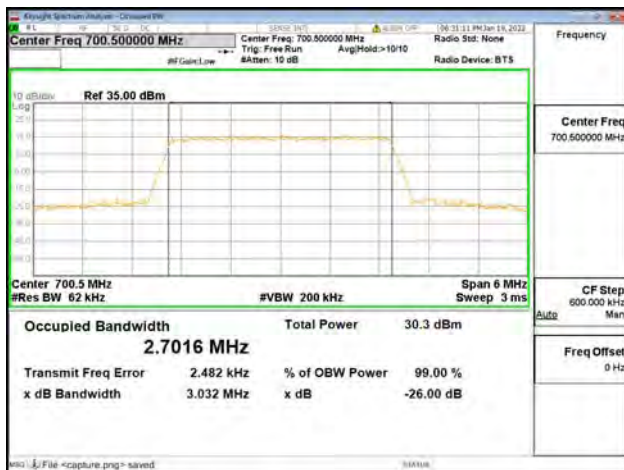
Band12 / 1.4MHz / High CH / 64QAM



Band12 / 3MHz / Low CH / QPSK



Band12 / 3MHz / Low CH / 16QAM



Band12 / 3MHz / Low CH / 64QAM

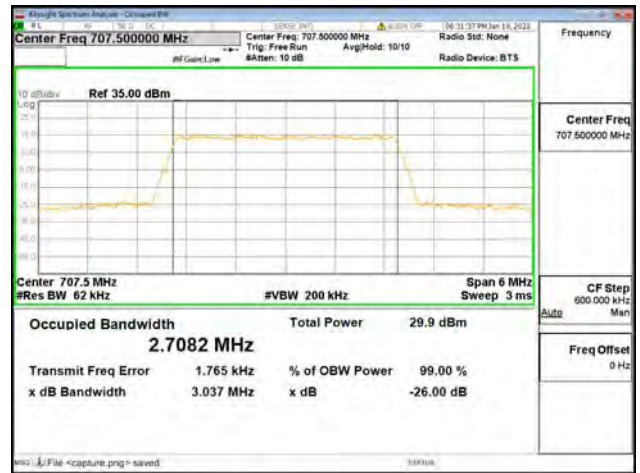




Band12 / 3MHz / Mid CH / QPSK



Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / Mid CH / 64QAM



Band12 / 3MHz / High CH / QPSK



Band12 / 3MHz / High CH / 16QAM



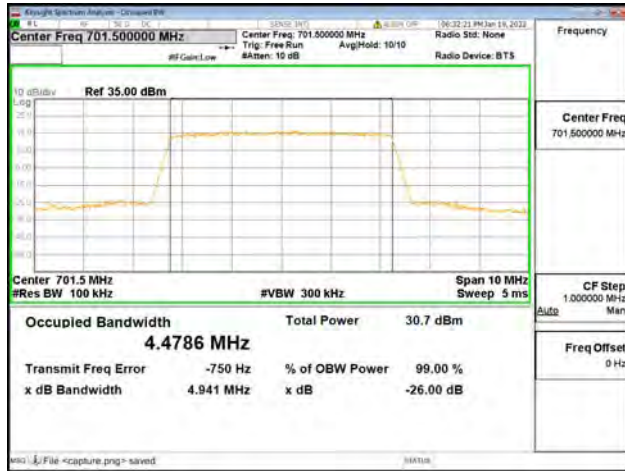
Band12 / 3MHz / High CH / 64QAM







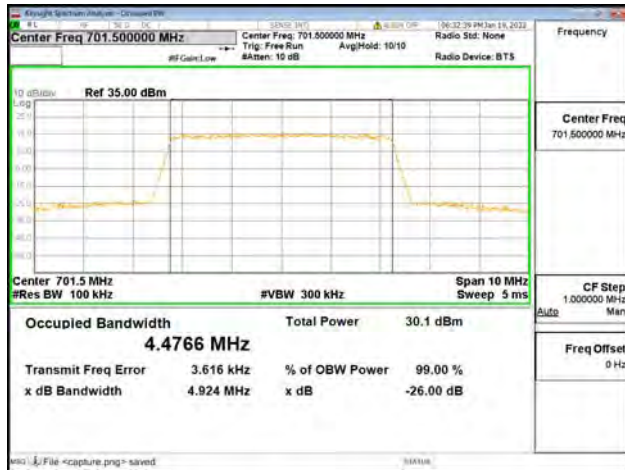
Band12 / 5MHz / Low CH / QPSK



Band12 / 5MHz / Low CH / 16QAM



Band12 / 5MHz / Low CH / 64QAM



Band12 / 5MHz / Mid CH / QPSK



Band12 / 5MHz / Mid CH / 16QAM



Band12 / 5MHz / Mid CH / 64QAM





Band12 / 5MHz / High CH / QPSK



Band12 / 5MHz / High CH / 16QAM



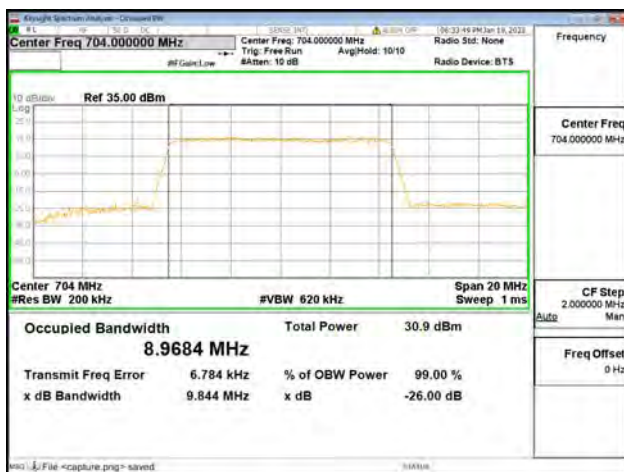
Band12 / 5MHz / High CH / 64QAM



Band12 / 10MHz / Low CH / QPSK



Band12 / 10MHz / Low CH / 16QAM



Band12 / 10MHz / Low CH / 64QAM







Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / Mid CH / 64QAM



Band12 / 10MHz / High CH / QPSK



Band12 / 10MHz / High CH / 16QAM



Band12 / 10MHz / High CH / 64QAM





Band17 / 5MHz / Low CH / QPSK



Band17 / 5MHz / Low CH / 16QAM



Band17 / 5MHz / Low CH / 64QAM



Band17 / 5MHz / Mid CH / QPSK



Band17 / 5MHz / Mid CH / 16QAM



Band17 / 5MHz / Mid CH / 64QAM







Band17 / 5MHz / High CH / QPSK



Band17 / 5MHz / High CH / 16QAM



Band17 / 5MHz / High CH / 64QAM



Band17 / 10MHz / Low CH / QPSK



Band17 / 10MHz / Low CH / 16QAM



Band17 / 10MHz / Low CH / 64QAM

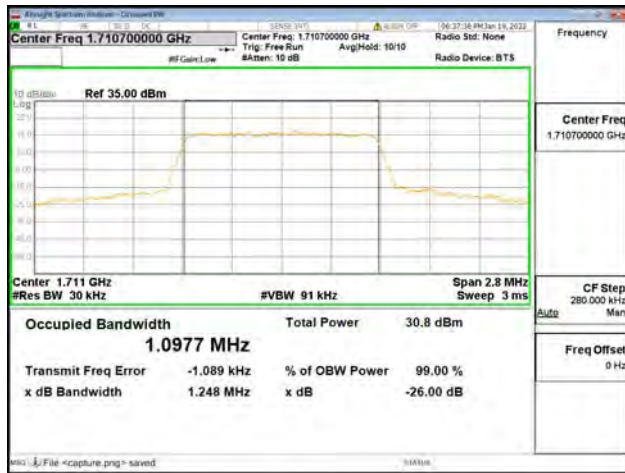




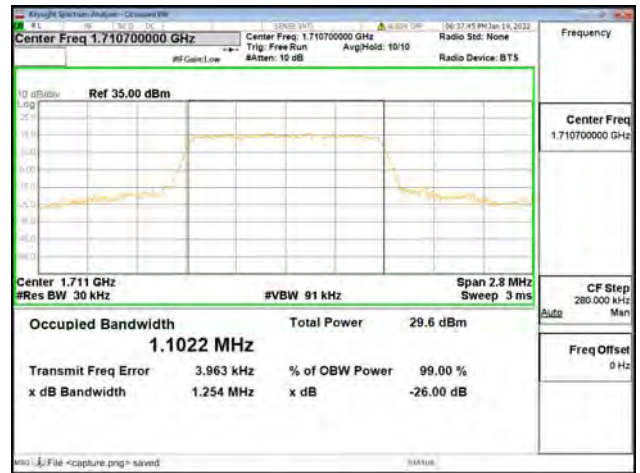




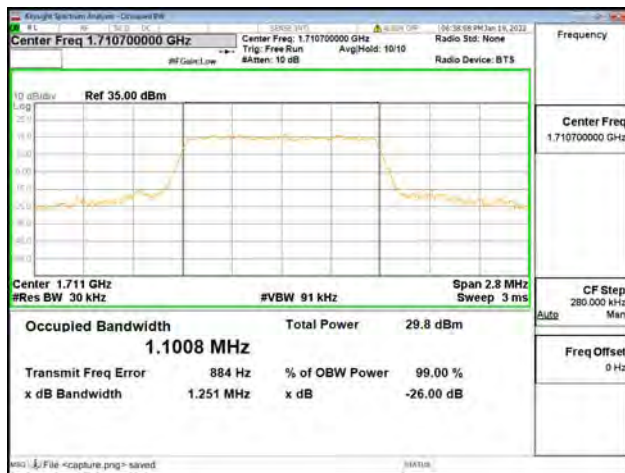
Band66 / 1.4MHz / Low CH / QPSK



Band66 / 1.4MHz / Low CH / 16QAM



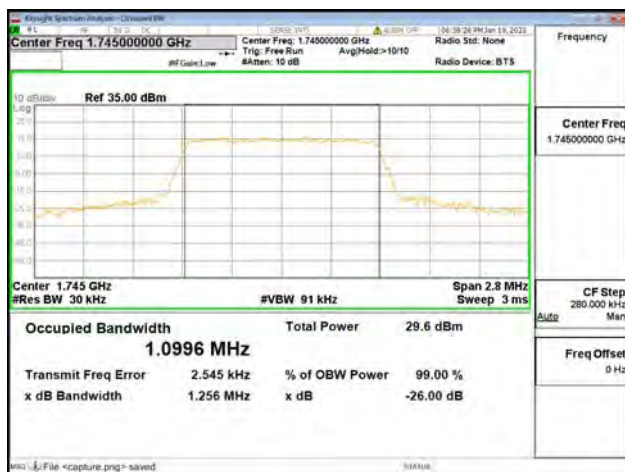
Band66 / 1.4MHz / Low CH / 64QAM



Band66 / 1.4MHz / Mid CH / QPSK



Band66 / 1.4MHz / Mid CH / 16QAM



Band66 / 1.4MHz / Mid CH / 64QAM

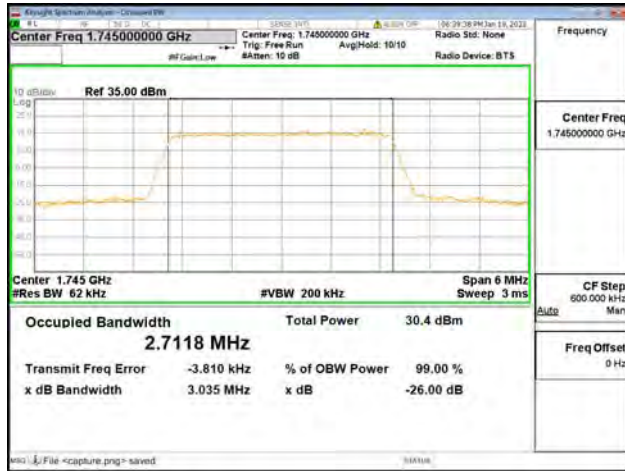




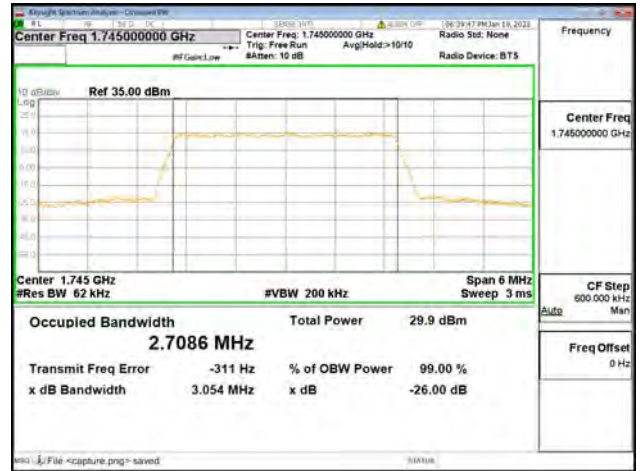




Band66 / 3MHz / Mid CH / QPSK



Band66 / 3MHz / Mid CH / 16QAM



Band66 / 3MHz / Mid CH / 64QAM



Band66 / 3MHz / High CH / QPSK



Band66 / 3MHz / High CH / 16QAM



Band66 / 3MHz / High CH / 64QAM





Band66 / 5MHz / Low CH / QPSK



Band66 / 5MHz / Low CH / 16QAM



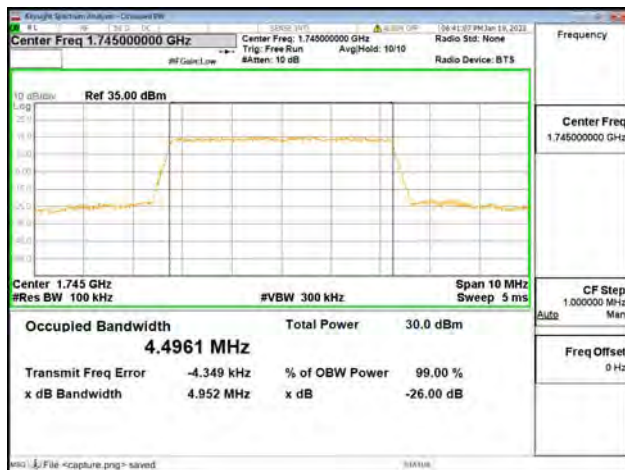
Band66 / 5MHz / Low CH / 64QAM



Band66 / 5MHz / Mid CH / QPSK



Band66 / 5MHz / Mid CH / 16QAM



Band66 / 5MHz / Mid CH / 64QAM



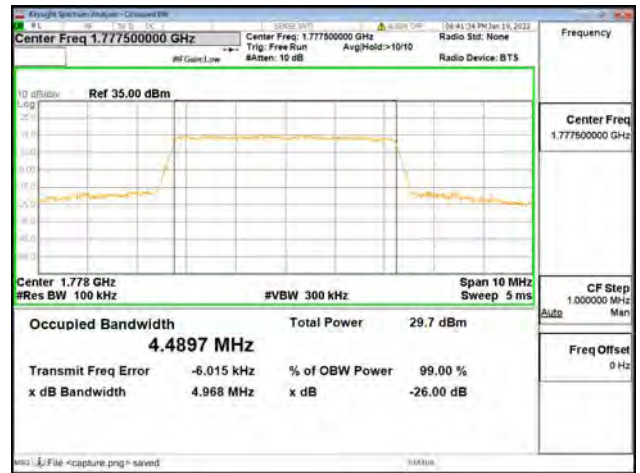




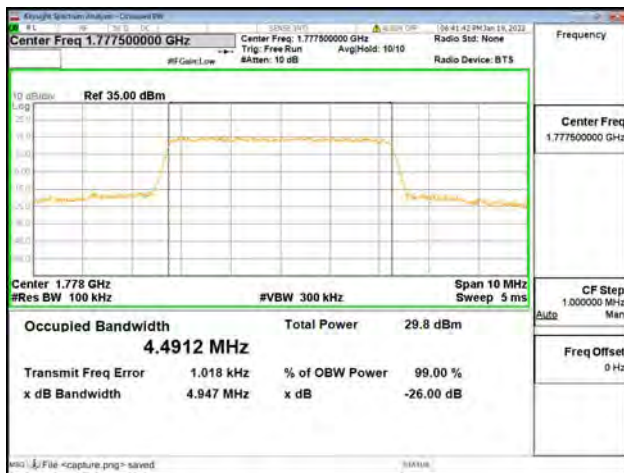
Band66 / 5MHz / High CH / QPSK



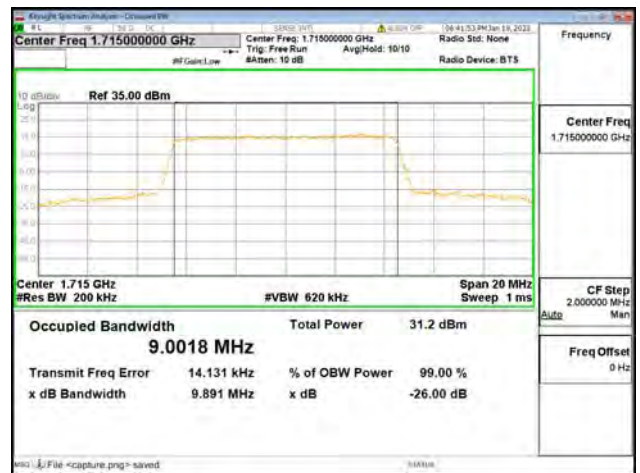
Band66 / 5MHz / High CH / 16QAM



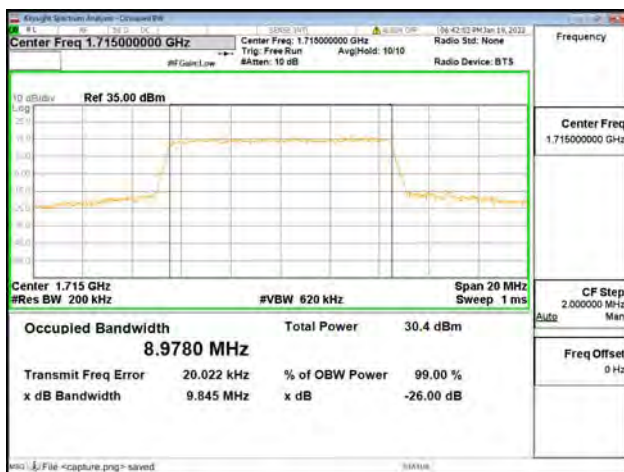
Band66 / 5MHz / High CH / 64QAM



Band66 / 10MHz / Low CH / QPSK



Band66 / 10MHz / Low CH / 16QAM

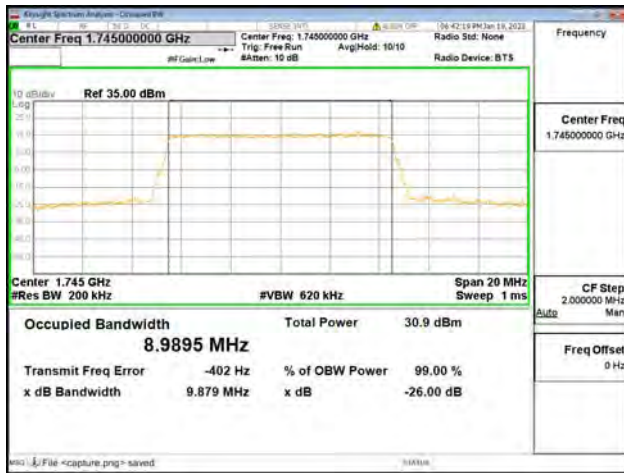


Band66 / 10MHz / Low CH / 64QAM





Band66 / 10MHz / Mid CH / QPSK



Band66 / 10MHz / Mid CH / 16QAM



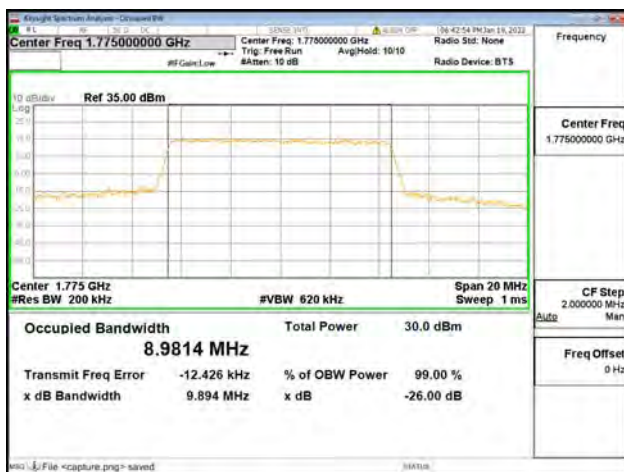
Band66 / 10MHz / Mid CH / 64QAM



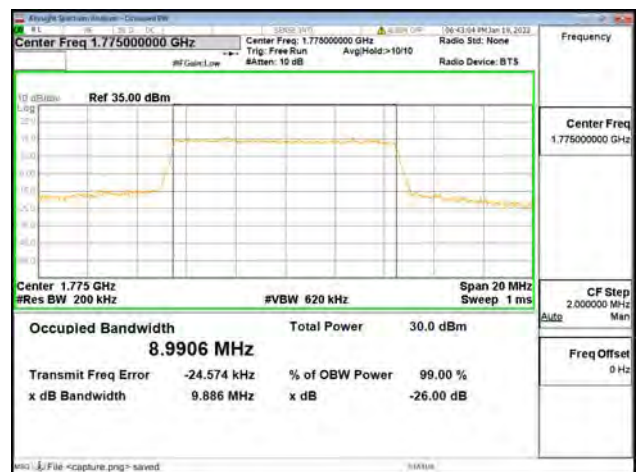
Band66 / 10MHz / High CH / QPSK



Band66 / 10MHz / High CH / 16QAM



Band66 / 10MHz / High CH / 64QAM







Band66 / 15MHz / Low CH / QPSK



Band66 / 15MHz / Low CH / 16QAM



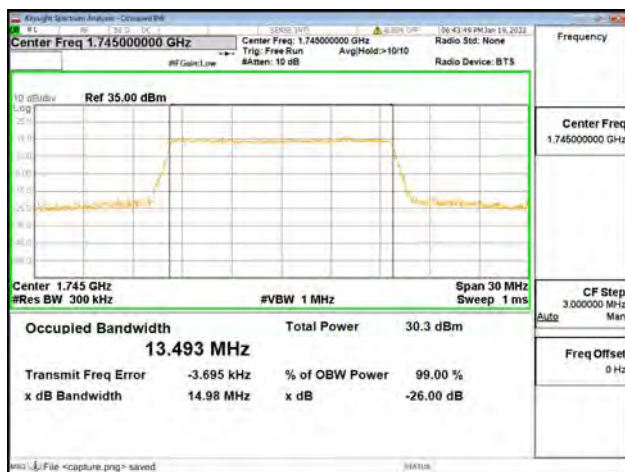
Band66 / 15MHz / Low CH / 64QAM



Band66 / 15MHz / Mid CH / QPSK



Band66 / 15MHz / Mid CH / 16QAM



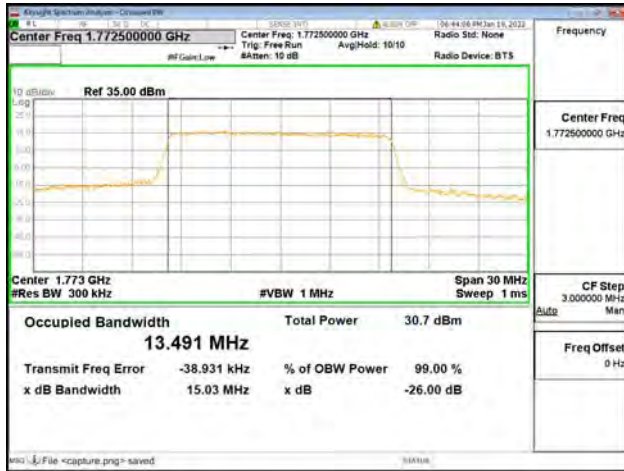
Band66 / 15MHz / Mid CH / 64QAM



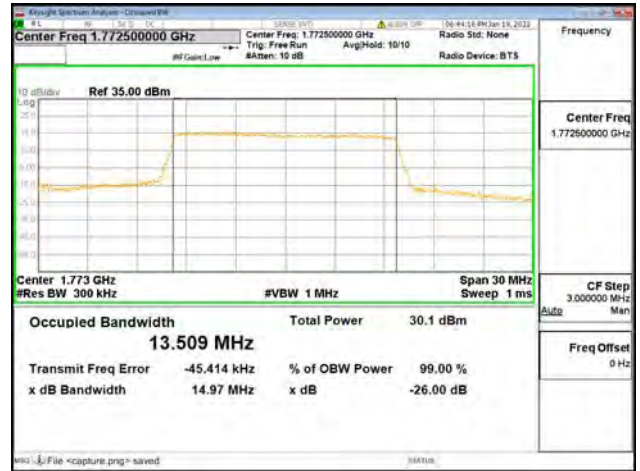




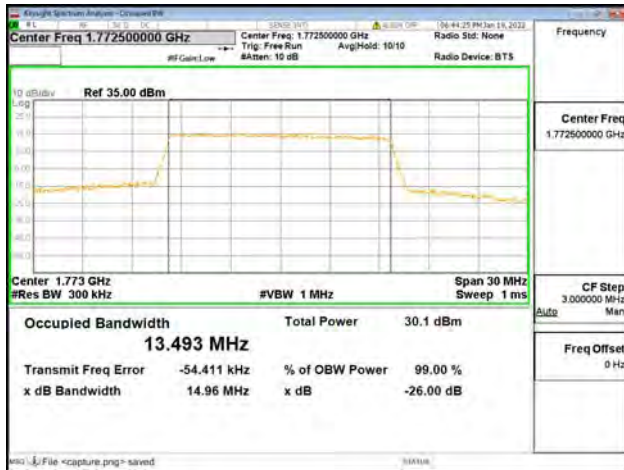
Band66 / 15MHz / High CH / QPSK



Band66 / 15MHz / High CH / 16QAM



Band66 / 15MHz / High CH / 64QAM



Band66 / 20MHz / Low CH / QPSK



Band66 / 20MHz / Low CH / 16QAM



Band66 / 20MHz / Low CH / 64QAM





## 2.3. Frequency Stability

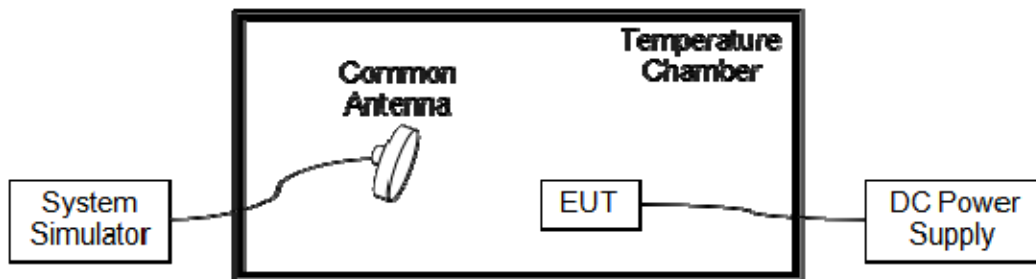
### 2.3.1. Requirement

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

- (a) The temperature is varied from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  at intervals of not more than  $10^{\circ}\text{C}$ .
- (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  $-10^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , 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 3.70V, 4.20V and 2.75V, which are specified by the applicant; the normal temperature here used is 20°C.

<b>LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz</b>					
<b>Limit =Within Authorized Band</b>					
<b>Voltage (%)</b>	<b>Power (VDC)</b>	<b>Temp(°C)</b>	<b>Fre. Dev. (Hz)</b>	<b>Deviation (ppm)</b>	<b>Result</b>
Normal	3.70	+20(Ref)	-48	-0.026	PASS
Normal		-10	41	0.022	
Normal		0	42	0.022	
Normal		+10	-31	-0.016	
Normal		+20	37	0.020	
Normal		+30	40	0.021	
Normal		+40	-51	-0.027	
Normal		+50	13	0.007	
Normal		+55	15	0.008	
High	4.20	+20	45	0.024	
BATT.ENDPOINT	2.75	+20	-55	-0.029	

<b>LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz</b>					
<b>Limit =Within Authorized Band</b>					
<b>Voltage (%)</b>	<b>Power (VDC)</b>	<b>Temp(°C)</b>	<b>Fre. Dev. (Hz)</b>	<b>Deviation (ppm)</b>	<b>Result</b>
Normal	3.70	+20(Ref)	-46	-0.027	PASS
Normal		-10	-29	-0.017	
Normal		0	13	0.008	
Normal		+10	54	0.031	
Normal		+20	41	0.024	
Normal		+30	28	0.016	
Normal		+40	-17	-0.010	
Normal		+50	-36	-0.021	
Normal		+55	54	0.031	
High	4.20	+20	45	0.026	
BATT.ENDPOINT	2.75	+20	15	0.009	





LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	-39	-0.047	PASS
Normal		-10	-16	-0.019	
Normal		0	32	0.038	
Normal		+10	18	0.022	
Normal		+20	-24	-0.029	
Normal		+30	34	0.041	
Normal		+40	-56	-0.067	
Normal		+50	47	0.056	
Normal		+55	-36	-0.043	
High	4.20	+20	-35	-0.042	
BATT.ENDPOINT	2.75	+20	34	0.041	

LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	29	0.011	PASS
Normal		-10	-43	-0.017	
Normal		0	-15	-0.006	
Normal		+10	-44	-0.017	
Normal		+20	15	0.006	
Normal		+30	-18	-0.007	
Normal		+40	35	0.014	
Normal		+50	22	0.009	
Normal		+55	-46	-0.018	
High	4.20	+20	23	0.009	
BATT.ENDPOINT	2.75	+20	14	0.006	





LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	-36	-0.051	PASS
Normal		-10	-56	-0.079	
Normal		0	24	0.034	
Normal		+10	38	0.054	
Normal		+20	54	0.076	
Normal		+30	-26	-0.037	
Normal		+40	15	0.021	
Normal		+50	-13	-0.018	
Normal		+55	44	0.062	
High	4.20	+20	24	0.034	
BATT.ENDPOINT	2.75	+20	38	0.054	

LTE Band 17, QPSK, Channel 23790, Frequency 710MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	-38	-0.054	PASS
Normal		-10	42	0.059	
Normal		0	16	0.023	
Normal		+10	46	0.065	
Normal		+20	-28	-0.039	
Normal		+30	41	0.058	
Normal		+40	18	0.025	
Normal		+50	25	0.035	
Normal		+55	34	0.048	
High	4.20	+20	49	0.069	
BATT.ENDPOINT	2.75	+20	42	0.059	



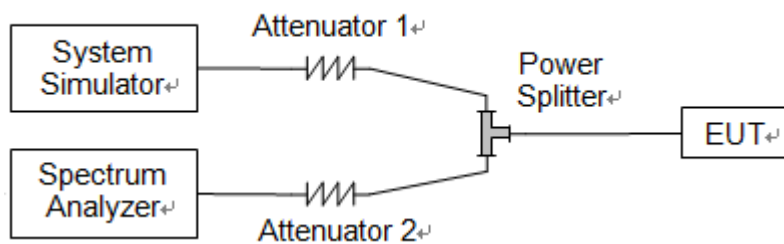
LTE Band 66, QPSK, Channel 132322, Frequency 1745MHz Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	20	0.011	PASS
Normal		-10	28	0.016	
Normal		0	22	0.013	
Normal		+10	17	0.010	
Normal		+20	28	0.016	
Normal		+30	-31	-0.018	
Normal		+40	-32	-0.018	
Normal		+50	13	0.007	
Normal		+55	-27	-0.015	
High		4.20	+20	26	
BATT.ENDPOINT	2.75	+20	21	0.012	

## 2.4. Peak to Average Ratio

### 2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

### 2.4.2. Test Description



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

### 2.4.3. Test Procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

### 2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



LTE Band 2					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.99	<=13	PASS
	Low	16QAM	5.90	<=13	PASS
	Low	64QAM	5.76	<=13	PASS
	Mid	QPSK	4.73	<=13	PASS
	Mid	16QAM	5.67	<=13	PASS
	Mid	64QAM	5.41	<=13	PASS
	High	QPSK	4.33	<=13	PASS
	High	16QAM	5.31	<=13	PASS
	High	64QAM	5.06	<=13	PASS
3	Low	QPSK	5.04	<=13	PASS
	Low	16QAM	5.84	<=13	PASS
	Low	64QAM	5.73	<=13	PASS
	Mid	QPSK	4.77	<=13	PASS
	Mid	16QAM	5.55	<=13	PASS
	Mid	64QAM	5.46	<=13	PASS
	High	QPSK	4.46	<=13	PASS
	High	16QAM	5.15	<=13	PASS
	High	64QAM	5.13	<=13	PASS
5	Low	QPSK	5.23	<=13	PASS
	Low	16QAM	5.85	<=13	PASS
	Low	64QAM	5.85	<=13	PASS
	Mid	QPSK	5.02	<=13	PASS
	Mid	16QAM	5.69	<=13	PASS
	Mid	64QAM	5.62	<=13	PASS
	High	QPSK	4.74	<=13	PASS
	High	16QAM	5.34	<=13	PASS
	High	64QAM	5.42	<=13	PASS
10	Low	QPSK	5.35	<=13	PASS
	Low	16QAM	5.94	<=13	PASS
	Low	64QAM	5.98	<=13	PASS
	Mid	QPSK	5.18	<=13	PASS
	Mid	16QAM	5.81	<=13	PASS
	Mid	64QAM	5.76	<=13	PASS
	High	QPSK	4.95	<=13	PASS
	High	16QAM	5.59	<=13	PASS
	High	64QAM	5.59	<=13	PASS



15	Low	QPSK	4.97	$\leq 13$	PASS
	Low	16QAM	5.67	$\leq 13$	PASS
	Low	64QAM	5.63	$\leq 13$	PASS
	Mid	QPSK	4.86	$\leq 13$	PASS
	Mid	16QAM	5.58	$\leq 13$	PASS
	Mid	64QAM	5.54	$\leq 13$	PASS
	High	QPSK	4.66	$\leq 13$	PASS
	High	16QAM	5.36	$\leq 13$	PASS
	High	64QAM	5.32	$\leq 13$	PASS
20	Low	QPSK	5.07	$\leq 13$	PASS
	Low	16QAM	5.78	$\leq 13$	PASS
	Low	64QAM	5.77	$\leq 13$	PASS
	Mid	QPSK	5.08	$\leq 13$	PASS
	Mid	16QAM	5.76	$\leq 13$	PASS
	Mid	64QAM	5.73	$\leq 13$	PASS
	High	QPSK	4.92	$\leq 13$	PASS
	High	16QAM	5.58	$\leq 13$	PASS
	High	64QAM	5.58	$\leq 13$	PASS





LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.77	<=13	PASS
	Low	16QAM	5.71	<=13	PASS
	Low	64QAM	5.52	<=13	PASS
	Mid	QPSK	4.93	<=13	PASS
	Mid	16QAM	5.77	<=13	PASS
	Mid	64QAM	5.58	<=13	PASS
	High	QPSK	5.05	<=13	PASS
	High	16QAM	5.97	<=13	PASS
	High	64QAM	5.77	<=13	PASS
3	Low	QPSK	4.77	<=13	PASS
	Low	16QAM	5.51	<=13	PASS
	Low	64QAM	5.45	<=13	PASS
	Mid	QPSK	4.89	<=13	PASS
	Mid	16QAM	5.71	<=13	PASS
	Mid	64QAM	5.56	<=13	PASS
	High	QPSK	5.05	<=13	PASS
	High	16QAM	5.82	<=13	PASS
	High	64QAM	5.66	<=13	PASS
5	Low	QPSK	4.99	<=13	PASS
	Low	16QAM	5.67	<=13	PASS
	Low	64QAM	5.59	<=13	PASS
	Mid	QPSK	5.12	<=13	PASS
	Mid	16QAM	5.85	<=13	PASS
	Mid	64QAM	5.69	<=13	PASS
	High	QPSK	5.25	<=13	PASS
	High	16QAM	5.93	<=13	PASS
	High	64QAM	5.87	<=13	PASS
10	Low	QPSK	5.08	<=13	PASS
	Low	16QAM	5.74	<=13	PASS
	Low	64QAM	5.79	<=13	PASS
	Mid	QPSK	5.33	<=13	PASS
	Mid	16QAM	5.89	<=13	PASS
	Mid	64QAM	5.88	<=13	PASS
	High	QPSK	5.42	<=13	PASS
	High	16QAM	6.03	<=13	PASS
	High	64QAM	6.04	<=13	PASS



15	Low	QPSK	4.83	<=13	PASS
	Low	16QAM	5.48	<=13	PASS
	Low	64QAM	5.47	<=13	PASS
	Mid	QPSK	4.96	<=13	PASS
	Mid	16QAM	5.69	<=13	PASS
	Mid	64QAM	5.61	<=13	PASS
	High	QPSK	5.24	<=13	PASS
	High	16QAM	5.91	<=13	PASS
	High	64QAM	5.95	<=13	PASS
20	Low	QPSK	5.01	<=13	PASS
	Low	16QAM	5.68	<=13	PASS
	Low	64QAM	5.88	<=13	PASS
	Mid	QPSK	5.20	<=13	PASS
	Mid	16QAM	5.89	<=13	PASS
	Mid	64QAM	5.84	<=13	PASS
	High	QPSK	5.33	<=13	PASS
	High	16QAM	6.02	<=13	PASS
	High	64QAM	6.03	<=13	PASS



LTE Band 66					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	4.83	<=13	PASS
	Low	16QAM	5.68	<=13	PASS
	Low	64QAM	5.52	<=13	PASS
	Mid	QPSK	5.27	<=13	PASS
	Mid	16QAM	6.07	<=13	PASS
	Mid	64QAM	5.96	<=13	PASS
	High	QPSK	5.05	<=13	PASS
	High	16QAM	5.87	<=13	PASS
	High	64QAM	5.71	<=13	PASS
3	Low	QPSK	4.81	<=13	PASS
	Low	16QAM	5.58	<=13	PASS
	Low	64QAM	5.52	<=13	PASS
	Mid	QPSK	5.24	<=13	PASS
	Mid	16QAM	6.04	<=13	PASS
	Mid	64QAM	5.88	<=13	PASS
	High	QPSK	5.07	<=13	PASS
	High	16QAM	5.75	<=13	PASS
	High	64QAM	5.65	<=13	PASS
5	Low	QPSK	5.0	<=13	PASS
	Low	16QAM	5.69	<=13	PASS
	Low	64QAM	5.66	<=13	PASS
	Mid	QPSK	5.37	<=13	PASS
	Mid	16QAM	6.0	<=13	PASS
	Mid	64QAM	5.96	<=13	PASS
	High	QPSK	5.17	<=13	PASS
	High	16QAM	5.76	<=13	PASS
	High	64QAM	5.72	<=13	PASS
10	Low	QPSK	5.07	<=13	PASS
	Low	16QAM	5.48	<=13	PASS
	Low	64QAM	5.72	<=13	PASS
	Mid	QPSK	5.52	<=13	PASS
	Mid	16QAM	6.08	<=13	PASS
	Mid	64QAM	6.12	<=13	PASS
	High	QPSK	5.16	<=13	PASS
	High	16QAM	5.77	<=13	PASS
	High	64QAM	5.74	<=13	PASS



15	Low	QPSK	4.81	<=13	PASS
	Low	16QAM	5.45	<=13	PASS
	Low	64QAM	5.49	<=13	PASS
	Mid	QPSK	5.25	<=13	PASS
	Mid	16QAM	5.94	<=13	PASS
	Mid	64QAM	5.92	<=13	PASS
	High	QPSK	4.76	<=13	PASS
	High	16QAM	5.36	<=13	PASS
	High	64QAM	5.38	<=13	PASS
20	Low	QPSK	5.0	<=13	PASS
	Low	16QAM	5.7	<=13	PASS
	Low	64QAM	5.67	<=13	PASS
	Mid	QPSK	5.29	<=13	PASS
	Mid	16QAM	6.07	<=13	PASS
	Mid	64QAM	5.99	<=13	PASS
	High	QPSK	4.94	<=13	PASS
	High	16QAM	5.63	<=13	PASS
	High	64QAM	5.61	<=13	PASS



Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Low CH / 64QAM



Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM



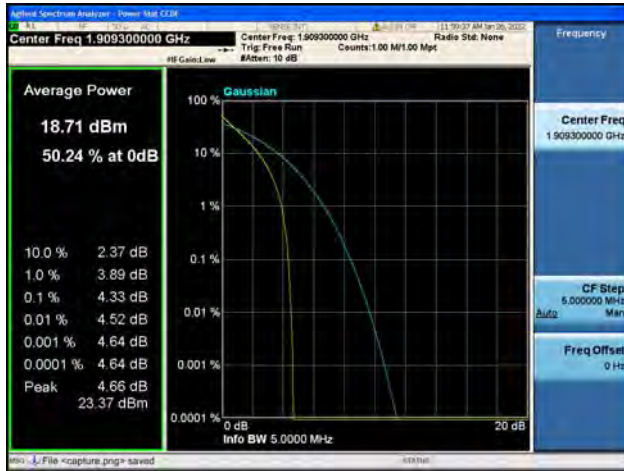
Band2 / 1.4MHz / Mid CH / 64QAM







Band2 / 1.4MHz / High CH / QPSK



Band2 / 1.4MHz / High CH / 16QAM



Band2 / 1.4MHz / High CH / 64QAM



Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Low CH / 64QAM





Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / Mid CH / 64QAM



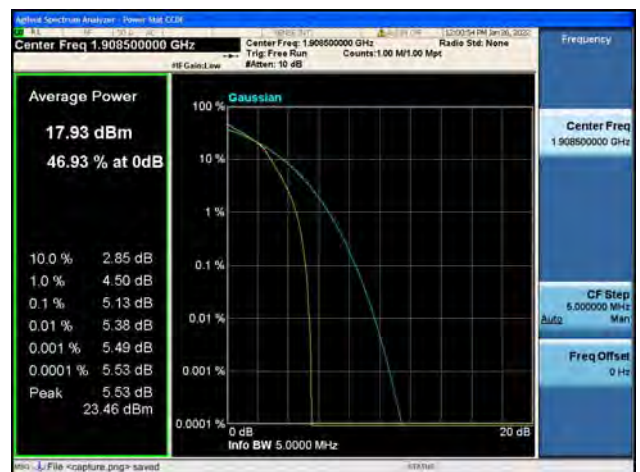
Band2 / 3MHz / High CH / QPSK



Band2 / 3MHz / High CH / 16QAM



Band2 / 3MHz / High CH / 64QAM



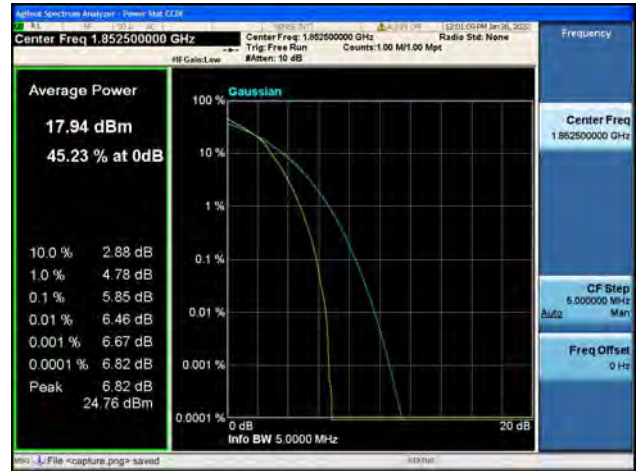




Band2 / 5MHz / Low CH / QPSK



Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Low CH / 64QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / Mid CH / 64QAM





Band2 / 5MHz / High CH / QPSK



Band2 / 5MHz / High CH / 16QAM



Band2 / 5MHz / High CH / 64QAM



Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Low CH / 64QAM

