



# TEST REPORT

**APPLICANT** : Shenzhen Chainway Information  
Technology Co., Ltd.

**PRODUCT NAME** : Mobile Data Terminal

**MODEL NAME** : C72

**BRAND NAME** : CHAINWAY

**FCC ID** : 2AC6AC72P

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

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Change History		
Version	Date	Reason for change
1.0	2022-04-24	First edition



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	Shenzhen Chainway Information Technology Co., Ltd.
<b>Applicant Address:</b>	9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China
<b>Manufacturer:</b>	Shenzhen Chainway Information Technology Co., Ltd.
<b>Manufacturer Address:</b>	9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Mobile Data Terminal	
<b>Sample No.:</b>	16#	
<b>Hardware Version:</b>	C72_Hardware_version_P	
<b>Software Version:</b>	C72_Software_version_P	
<b>Modulation Type:</b>	QPSK, 16QAM	
<b>Carrier Aggregation:</b>	Not support	
<b>Operation Band:</b>	Band 2 / 4 / 5 / 7 / 12 / 17 / 38 / 40 / 41	
<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



<b>Frequency Range:</b>	LTE Band 38	Tx: 2570MHz–2620MHz
		Rx: 2570MHz–2620MHz
	LTE Band 40 Block A	Tx: 2305MHz–2315MHz
		Rx: 2305MHz–2315MHz
	LTE Band 40 Block B	Tx: 2350MHz–2360MHz
Rx: 2350MHz–2360MHz		
LTE Band 41	Tx: 2496MHz–2690MHz	
	Rx: 2496MHz–2690MHz	
<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 38	5 MHz, 10MHz, 15MHz, 20MHz
	LTE Band 40	5MHz, 10MHz
	LTE Band 41	5 MHz, 10MHz, 15MHz, 20MHz
<b>Antenna Type:</b>	Fixed Internal Antenna	
<b>Antenna Gain:</b>	LTE Band 2	0.19dBi
	LTE Band 4	0.21dBi
	LTE Band 5	-0.11dBi
	LTE Band 7	0.51dBi
	LTE Band 12	-0.25dBi
	LTE Band 17	-0.24dBi
	LTE Band 38	0.23dBi
	LTE Band 40	0.30dBi
	LTE Band 41	0.46dBi
<b>Accessory Information:</b>	Battery	
	Brand Name:	CHAINWAY
	Model No.:	J293
	Serial No.:	N/A
	Capacity:	8000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Hixon (Shenzhen) Technology Limited



<b>Accessory Information:</b>	AC Adapter	
	Brand Name:	FULLPOWER
	Model No.:	NA010050020
	Serial No.:	N/A
	Rated Output:	5V=2A
	Rated Input:	100-240V~50/60Hz, 0.5A
	Manufacturer:	SHENZHEN SHI YING YUAN ELECTRONICS CO LTD
	Charging Base	
	Brand Name:	CHAINWAY
	Model No.:	CRD-C72-SCC
	Serial No.:	N/A
	Rated Output:	5V=2A
	Rated Input:	5V=2A
	Manufacturer:	Shenzhen Chainway Information Technology Co., Ltd.
	USB Cable	
	Model No.:	1.8.17.067
Manufacturer:	SHENZHEN HUANJIAN ELECTRONIC CO., LTD.	

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

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



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

<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	QPSK	16QAM
20		0.057	0.048	18M0G7D	18M0W7D
15		0.056	0.048	13M5G7D	13M5W7D
10		0.054	0.047	8M99G7D	8M96W7D
5		0.053	0.045	4M49G7D	4M51W7D
3		0.052	0.044	2M69G7D	2M69W7D
1.4		0.050	0.043	1M10G7D	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	QPSK	16QAM
20		0.178	0.151	18M0G7D	18M0W7D
15		0.174	0.148	13M5G7D	13M5W7D
10		0.170	0.144	8M99G7D	8M95W7D
5		0.165	0.140	4M50G7D	4M50W7D
3		0.161	0.137	2M69G7D	2M69W7D
1.4		0.157	0.133	1M10G7D	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	QPSK	16QAM
10		0.100	0.086	9M01G7D	8M98W7D
5		0.098	0.084	4M50G7D	4M51W7D
3		0.095	0.082	2M69G7D	2M69W7D
1.4		0.093	0.080	1M10G7D	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	QPSK	16QAM
20		0.144	0.120	18M0G7D	18M0W7D
15		0.141	0.117	13M5G7D	13M5W7D
10		0.137	0.115	9M00G7D	8M97W7D
5		0.134	0.112	4M50G7D	4M50W7D
<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	QPSK	16QAM
10		0.089	0.076	9M03G7D	9M00W7D
5		0.086	0.074	4M53G7D	4M53W7D
3		0.084	0.073	2M70G7D	2M70W7D
1.4		0.082	0.071	1M10G7D	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	QPSK	16QAM
10		0.103	0.089	9M05G7D	8M99W7D
5		0.100	0.086	4M53G7D	4M532W7D
<b>LTE Band 38</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.163	0.123	18M0G7D	18M0W7D
15		0.159	0.120	13M5G7D	13M5W7D
10		0.155	0.117	8M99G7D	8M98W7D
5		0.151	0.114	4M49G7D	4M50W7D
<b>LTE Band 40 Block A</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
10		0.177	0.140	8M98G7D	8M98W7D
5		0.167	0.142	4M51G7D	4M51W7D
<b>LTE Band 40 Block B</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
10		0.176	0.142	9M00G7D	8M98W7D
5		0.176	0.146	4M51G7D	4M52W7D
<b>LTE Band 41</b>		<b>Maximum E.R.P./E.I.R.P. (W)</b>		<b>Emission Designator (99%OBW)</b>	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.193	0.144	17M9G7D	18M0W7D
15		0.188	0.140	13M5G7D	13M5W7D
10		0.183	0.136	8M99G7D	8M99W7D
5		0.179	0.134	4M50G7D	4M51W7D



## 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(a)(3) 27.50(c)(10) 27.50(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Apr. 01&02, 2022	Yu Xiaoming Li Huaijie	PASS	No deviation
2.1049	Occupied Bandwidth	Jan. 19, 2022 Mar. 21, 2022	Li Huaijie	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Mar. 23, 2022	Li Huaijie	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Mar. 21, 2022	Li Huaijie	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(a)(4) 27.53(g) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Jan. 18, 2022 Mar. 21, 2022	Li Huaijie	PASS	No deviation
2.1051	Band Edge	Jan. 18&19, 2022	Li Huaijie	PASS	No deviation





22.917(a) 24.238(a) 27.53(a)(4) 27.53(g) 27.53(h) 27.53(m)(4)					
2.1051 22.917(a) 24.238(a) 27.53(a)(4) 27.53(g) 27.53(h) 27.53(m)(4)	Radiated Spurious Emissions	Dec. 03&05, 2021	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 D &H&L&M Requirements**

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

#### **2.1.1. Requirement**

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

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

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

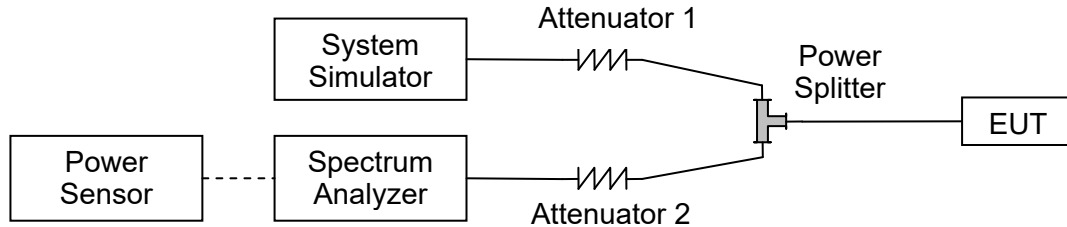
According to FCC section 22.913 (a)(2) for LTE Band 5, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h)(2) for LTE Band 7/38/41, 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.

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

### 2.1.2. Test Description



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

### 2.1.3. Test Procedure

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

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

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

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

<b>LTE Band 2</b>						
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	17.30	17.37	17.21
20	QPSK	1	49	17.03	17.15	17.22
20	QPSK	1	99	17.02	16.98	17.03
20	QPSK	50	0	16.14	16.33	16.18
20	QPSK	50	24	16.06	16.13	16.10
20	QPSK	50	50	16.10	16.04	16.19
20	QPSK	100	0	16.07	16.13	16.11
20	16QAM	1	0	16.55	16.62	16.59
20	16QAM	1	49	16.42	16.32	16.48
20	16QAM	1	99	16.31	16.36	16.51
20	16QAM	50	0	15.03	14.98	15.07
20	16QAM	50	24	15.05	15.14	15.20
20	16QAM	50	50	15.05	15.11	15.17
20	16QAM	100	0	15.08	15.16	15.10



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	17.16	17.27	17.20
15	QPSK	1	37	17.03	17.15	17.22
15	QPSK	1	74	17.02	16.98	17.03
15	QPSK	36	0	16.14	16.33	16.18
15	QPSK	36	20	16.06	16.13	16.10
15	QPSK	36	39	16.10	16.04	16.19
15	QPSK	75	0	16.07	16.13	16.11
15	16QAM	1	0	16.55	16.62	16.59
15	16QAM	1	37	16.42	16.32	16.48
15	16QAM	1	74	16.31	16.36	16.51
15	16QAM	36	0	15.03	14.98	15.07
15	16QAM	36	20	15.05	15.14	15.20
15	16QAM	36	39	15.05	15.11	15.17
15	16QAM	75	0	15.08	15.16	15.10



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	17.05	17.16	17.09
10	QPSK	1	25	16.92	17.04	17.11
10	QPSK	1	49	16.91	16.87	16.92
10	QPSK	25	0	16.03	16.22	16.07
10	QPSK	25	12	15.95	16.02	15.99
10	QPSK	25	25	15.99	15.93	16.08
10	QPSK	50	0	15.96	16.02	16.00
10	16QAM	1	0	16.44	16.51	16.48
10	16QAM	1	25	16.31	16.21	16.37
10	16QAM	1	49	16.20	16.25	16.40
10	16QAM	25	0	14.92	14.87	14.96
10	16QAM	25	12	14.94	15.03	15.09
10	16QAM	25	25	14.94	15.00	15.06
10	16QAM	50	0	14.97	15.05	14.99



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	16.93	17.04	16.97
5	QPSK	1	12	16.80	16.92	16.99
5	QPSK	1	24	16.79	16.75	16.80
5	QPSK	12	0	15.91	16.10	15.95
5	QPSK	12	7	15.83	15.90	15.87
5	QPSK	12	13	15.87	15.81	15.96
5	QPSK	25	0	15.84	15.90	15.88
5	16QAM	1	0	16.32	16.39	16.36
5	16QAM	1	12	16.19	16.09	16.25
5	16QAM	1	24	16.08	16.13	16.28
5	16QAM	12	0	14.80	14.75	14.84
5	16QAM	12	7	14.82	14.91	14.97
5	16QAM	12	13	14.82	14.88	14.94
5	16QAM	25	0	14.85	14.93	14.87



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	16.82	16.93	16.86
3	QPSK	1	8	16.69	16.81	16.88
3	QPSK	1	14	16.68	16.64	16.69
3	QPSK	8	0	15.80	15.99	15.84
3	QPSK	8	4	15.72	15.79	15.76
3	QPSK	8	7	15.76	15.70	15.85
3	QPSK	15	0	15.73	15.79	15.77
3	16QAM	1	0	16.21	16.28	16.25
3	16QAM	1	8	16.08	15.98	16.14
3	16QAM	1	14	15.97	16.02	16.17
3	16QAM	8	0	14.69	14.64	14.73
3	16QAM	8	4	14.71	14.80	14.86
3	16QAM	8	7	14.71	14.77	14.83
3	16QAM	15	0	14.74	14.82	14.76





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	16.70	16.81	16.74
1.4	QPSK	1	3	16.57	16.69	16.76
1.4	QPSK	1	5	16.56	16.52	16.57
1.4	QPSK	3	0	15.68	15.87	15.72
1.4	QPSK	3	1	15.60	15.67	15.64
1.4	QPSK	3	3	15.64	15.58	15.73
1.4	QPSK	6	0	15.61	15.67	15.65
1.4	16QAM	1	0	16.09	16.16	16.13
1.4	16QAM	1	3	15.96	15.86	16.02
1.4	16QAM	1	5	15.85	15.90	16.05
1.4	16QAM	3	0	14.57	14.52	14.61
1.4	16QAM	3	1	14.59	14.68	14.74
1.4	16QAM	3	3	14.59	14.65	14.71
1.4	16QAM	6	0	14.62	14.70	14.64



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	22.20	22.30	22.24
20	QPSK	1	49	22.10	22.20	22.18
20	QPSK	1	99	22.16	22.12	22.14
20	QPSK	50	0	21.22	21.25	21.19
20	QPSK	50	24	21.15	21.18	21.13
20	QPSK	50	50	21.10	20.99	21.16
20	QPSK	100	0	21.17	21.24	21.13
20	16QAM	1	0	21.48	21.59	21.38
20	16QAM	1	49	21.47	21.48	21.35
20	16QAM	1	99	21.33	21.37	21.33
20	16QAM	50	0	20.00	20.12	20.10
20	16QAM	50	24	20.21	20.17	20.22
20	16QAM	50	50	20.10	20.06	20.13
20	16QAM	100	0	20.21	20.04	20.05



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	22.09	22.19	22.13
15	QPSK	1	37	21.99	22.09	22.07
15	QPSK	1	74	22.05	22.01	22.03
15	QPSK	36	0	21.11	21.19	21.08
15	QPSK	36	20	21.04	21.07	21.02
15	QPSK	36	39	20.99	20.88	21.05
15	QPSK	75	0	21.06	21.13	21.02
15	16QAM	1	0	21.37	21.48	21.27
15	16QAM	1	37	21.36	21.37	21.24
15	16QAM	1	74	21.22	21.26	21.22
15	16QAM	36	0	19.89	20.01	19.99
15	16QAM	36	20	20.10	20.06	20.11
15	16QAM	36	39	19.99	19.95	20.02
15	16QAM	75	0	20.10	19.93	19.94



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	21.99	22.09	22.03
10	QPSK	1	25	21.89	21.99	21.97
10	QPSK	1	49	21.95	21.91	21.93
10	QPSK	25	0	21.01	21.09	20.98
10	QPSK	25	12	20.94	20.97	20.92
10	QPSK	25	25	20.89	20.78	20.95
10	QPSK	50	0	20.96	21.03	20.92
10	16QAM	1	0	21.27	21.38	21.17
10	16QAM	1	25	21.26	21.27	21.14
10	16QAM	1	49	21.12	21.16	21.12
10	16QAM	25	0	19.79	19.91	19.89
10	16QAM	25	12	20.00	19.96	20.01
10	16QAM	25	25	19.89	19.85	19.92
10	16QAM	50	0	20.00	19.83	19.84



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	21.87	21.97	21.91
5	QPSK	1	12	21.77	21.87	21.85
5	QPSK	1	24	21.83	21.79	21.81
5	QPSK	12	0	20.89	20.97	20.86
5	QPSK	12	7	20.82	20.85	20.80
5	QPSK	12	13	20.77	20.66	20.83
5	QPSK	25	0	20.84	20.91	20.80
5	16QAM	1	0	21.15	21.26	21.05
5	16QAM	1	12	21.14	21.15	21.02
5	16QAM	1	24	21.00	21.04	21.00
5	16QAM	12	0	19.67	19.79	19.77
5	16QAM	12	7	19.88	19.84	19.89
5	16QAM	12	13	19.77	19.73	19.80
5	16QAM	25	0	19.88	19.71	19.72



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	21.77	21.87	21.81
3	QPSK	1	8	21.67	21.77	21.75
3	QPSK	1	14	21.73	21.69	21.71
3	QPSK	8	0	20.79	20.87	20.76
3	QPSK	8	4	20.72	20.75	20.70
3	QPSK	8	7	20.67	20.56	20.73
3	QPSK	15	0	20.74	20.81	20.70
3	16QAM	1	0	21.05	21.16	20.95
3	16QAM	1	8	21.04	21.05	20.92
3	16QAM	1	14	20.90	20.94	20.90
3	16QAM	8	0	19.57	19.69	19.67
3	16QAM	8	4	19.78	19.74	19.79
3	16QAM	8	7	19.67	19.63	19.70
3	16QAM	15	0	19.78	19.61	19.62



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	21.65	21.75	21.69
1.4	QPSK	1	3	21.55	21.65	21.63
1.4	QPSK	1	5	21.61	21.57	21.59
1.4	QPSK	3	0	20.67	20.75	20.64
1.4	QPSK	3	1	20.60	20.63	20.58
1.4	QPSK	3	3	20.55	20.44	20.61
1.4	QPSK	6	0	20.62	20.69	20.58
1.4	16QAM	1	0	20.93	21.04	20.83
1.4	16QAM	1	3	20.92	20.93	20.80
1.4	16QAM	1	5	20.78	20.82	20.78
1.4	16QAM	3	0	19.45	19.57	19.55
1.4	16QAM	3	1	19.66	19.62	19.67
1.4	16QAM	3	3	19.55	19.51	19.58
1.4	16QAM	6	0	19.66	19.49	19.50



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	22.27	22.17
10	QPSK	1	25	21.92	22.22	22.10
10	QPSK	1	49	22.00	22.03	21.90
10	QPSK	25	0	21.15	21.32	21.27
10	QPSK	25	12	21.15	21.06	21.03
10	QPSK	25	25	21.17	21.11	21.18
10	QPSK	50	0	21.07	21.17	21.08
10	16QAM	1	0	21.62	21.63	21.52
10	16QAM	1	25	21.62	21.34	21.31
10	16QAM	1	49	21.34	21.40	21.45
10	16QAM	25	0	20.15	20.08	20.05
10	16QAM	25	12	20.23	20.13	20.17
10	16QAM	25	25	20.12	20.12	20.12
10	16QAM	50	0	20.24	20.11	20.11





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	22.10	22.16	22.06
5	QPSK	1	12	21.81	22.11	21.99
5	QPSK	1	24	21.89	21.92	21.79
5	QPSK	12	0	21.04	21.21	21.16
5	QPSK	12	7	21.04	20.95	20.92
5	QPSK	12	13	21.06	21.00	21.07
5	QPSK	25	0	20.96	21.06	20.97
5	16QAM	1	0	21.51	21.52	21.41
5	16QAM	1	12	21.51	21.23	21.20
5	16QAM	1	24	21.23	21.29	21.34
5	16QAM	12	0	20.04	19.97	19.94
5	16QAM	12	7	20.12	20.02	20.06
5	16QAM	12	13	20.01	20.01	20.01
5	16QAM	25	0	20.13	20.00	20.00



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	21.98	22.04	21.94
3	QPSK	1	8	21.69	21.99	21.87
3	QPSK	1	14	21.77	21.80	21.67
3	QPSK	8	0	20.92	21.09	21.04
3	QPSK	8	4	20.92	20.83	20.80
3	QPSK	8	7	20.94	20.88	20.95
3	QPSK	15	0	20.84	20.94	20.85
3	16QAM	1	0	21.39	21.40	21.29
3	16QAM	1	8	21.39	21.11	21.08
3	16QAM	1	14	21.11	21.17	21.22
3	16QAM	8	0	19.92	19.85	19.82
3	16QAM	8	4	20.00	19.90	19.94
3	16QAM	8	7	19.89	19.89	19.89
3	16QAM	15	0	20.01	19.88	19.88



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				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	21.87	21.93	21.83
1.4	QPSK	1	3	21.58	21.88	21.76
1.4	QPSK	1	5	21.66	21.69	21.56
1.4	QPSK	3	0	20.81	20.98	20.93
1.4	QPSK	3	1	20.81	20.72	20.69
1.4	QPSK	3	3	20.83	20.77	20.84
1.4	QPSK	6	0	20.73	20.83	20.74
1.4	16QAM	1	0	21.28	21.29	21.18
1.4	16QAM	1	3	21.28	21.00	20.97
1.4	16QAM	1	5	21.00	21.06	21.11
1.4	16QAM	3	0	19.81	19.74	19.71
1.4	16QAM	3	1	19.89	19.79	19.83
1.4	16QAM	3	3	19.78	19.78	19.78
1.4	16QAM	6	0	19.90	19.77	19.77



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	20.98	21.07	20.91
20	QPSK	1	49	20.92	20.99	20.89
20	QPSK	1	99	20.86	20.87	20.89
20	QPSK	50	0	19.88	19.94	19.86
20	QPSK	50	24	19.88	19.82	19.72
20	QPSK	50	50	19.81	19.87	19.80
20	QPSK	100	0	19.84	19.90	19.79
20	16QAM	1	0	20.05	20.15	20.28
20	16QAM	1	49	20.02	20.13	20.14
20	16QAM	1	99	19.95	20.21	20.04
20	16QAM	50	0	18.83	18.76	18.83
20	16QAM	50	24	18.84	18.85	18.66
20	16QAM	50	50	18.91	18.84	18.85
20	16QAM	100	0	18.79	18.81	18.79



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	20.87	20.97	20.82
15	QPSK	1	37	20.82	20.89	20.79
15	QPSK	1	74	20.76	20.77	20.79
15	QPSK	36	0	19.62	19.84	19.57
15	QPSK	36	20	19.78	19.72	19.62
15	QPSK	36	39	19.71	19.77	19.70
15	QPSK	75	0	19.74	19.80	19.69
15	16QAM	1	0	19.95	20.05	20.18
15	16QAM	1	37	19.92	20.03	20.04
15	16QAM	1	74	19.85	20.11	19.94
15	16QAM	36	0	18.73	18.66	18.73
15	16QAM	36	20	18.74	18.75	18.56
15	16QAM	36	39	18.81	18.74	18.75
15	16QAM	75	0	18.69	18.71	18.69



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	20.77	20.87	20.72
10	QPSK	1	25	20.72	20.79	20.69
10	QPSK	1	49	20.66	20.67	20.69
10	QPSK	25	0	19.52	19.74	19.47
10	QPSK	25	12	19.68	19.62	19.52
10	QPSK	25	25	19.61	19.67	19.60
10	QPSK	50	0	19.64	19.70	19.59
10	16QAM	1	0	19.85	19.95	20.08
10	16QAM	1	25	19.82	19.93	19.94
10	16QAM	1	49	19.75	20.01	19.84
10	16QAM	25	0	18.63	18.56	18.63
10	16QAM	25	12	18.64	18.65	18.46
10	16QAM	25	25	18.71	18.64	18.65
10	16QAM	50	0	18.59	18.61	18.59



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				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	20.66	20.76	20.61
5	QPSK	1	12	20.61	20.68	20.58
5	QPSK	1	24	20.55	20.56	20.58
5	QPSK	12	0	19.41	19.63	19.36
5	QPSK	12	7	19.57	19.51	19.41
5	QPSK	12	13	19.50	19.56	19.49
5	QPSK	25	0	19.53	19.59	19.48
5	16QAM	1	0	19.74	19.84	19.97
5	16QAM	1	12	19.71	19.82	19.83
5	16QAM	1	24	19.64	19.90	19.73
5	16QAM	12	0	18.52	18.45	18.52
5	16QAM	12	7	18.53	18.54	18.35
5	16QAM	12	13	18.60	18.53	18.54
5	16QAM	25	0	18.48	18.50	18.48



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	21.72	21.88	21.82
10	QPSK	1	25	21.52	21.82	21.70
10	QPSK	1	49	21.60	21.63	21.50
10	QPSK	25	0	20.80	20.91	20.83
10	QPSK	25	12	20.75	20.66	20.63
10	QPSK	25	25	20.77	20.71	20.78
10	QPSK	50	0	20.67	20.77	20.60
10	16QAM	1	0	21.22	21.23	21.12
10	16QAM	1	25	21.22	20.94	20.91
10	16QAM	1	49	20.94	21.00	21.05
10	16QAM	25	0	19.75	19.68	19.65
10	16QAM	25	12	19.83	19.73	19.77
10	16QAM	25	25	19.72	19.72	19.72
10	16QAM	50	0	19.84	19.71	19.71





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	21.53	21.77	21.71
5	QPSK	1	12	21.41	21.71	21.59
5	QPSK	1	24	21.49	21.52	21.39
5	QPSK	12	0	20.69	20.80	20.72
5	QPSK	12	7	20.64	20.55	20.52
5	QPSK	12	13	20.66	20.60	20.67
5	QPSK	25	0	20.56	20.66	20.49
5	16QAM	1	0	21.11	21.12	21.01
5	16QAM	1	12	21.11	20.83	20.80
5	16QAM	1	24	20.83	20.89	20.94
5	16QAM	12	0	19.64	19.57	19.54
5	16QAM	12	7	19.72	19.62	19.66
5	16QAM	12	13	19.61	19.61	19.61
5	16QAM	25	0	19.73	19.60	19.60



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				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	21.42	21.66	21.60
3	QPSK	1	8	21.30	21.60	21.48
3	QPSK	1	14	21.38	21.41	21.28
3	QPSK	8	0	20.58	20.69	20.61
3	QPSK	8	4	20.53	20.44	20.41
3	QPSK	8	7	20.55	20.49	20.56
3	QPSK	15	0	20.45	20.55	20.38
3	16QAM	1	0	21.00	21.01	20.90
3	16QAM	1	8	21.00	20.72	20.69
3	16QAM	1	14	20.72	20.78	20.83
3	16QAM	8	0	19.53	19.46	19.43
3	16QAM	8	4	19.61	19.51	19.55
3	16QAM	8	7	19.50	19.50	19.50
3	16QAM	15	0	19.62	19.49	19.49



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	21.32	21.56	21.50
1.4	QPSK	1	3	21.20	21.50	21.38
1.4	QPSK	1	5	21.28	21.31	21.18
1.4	QPSK	3	0	20.48	20.59	20.51
1.4	QPSK	3	1	20.43	20.34	20.31
1.4	QPSK	3	3	20.45	20.39	20.46
1.4	QPSK	6	0	20.35	20.45	20.28
1.4	16QAM	1	0	20.90	20.91	20.80
1.4	16QAM	1	3	20.90	20.62	20.59
1.4	16QAM	1	5	20.62	20.68	20.73
1.4	16QAM	3	0	19.43	19.36	19.33
1.4	16QAM	3	1	19.51	19.41	19.45
1.4	16QAM	3	3	19.40	19.40	19.40
1.4	16QAM	6	0	19.52	19.39	19.39



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	22.42	22.50	22.41
10	QPSK	1	25	22.37	22.38	22.29
10	QPSK	1	49	22.31	22.42	22.38
10	QPSK	25	0	21.46	21.57	21.57
10	QPSK	25	12	21.45	21.44	21.48
10	QPSK	25	25	21.42	21.35	21.41
10	QPSK	50	0	21.44	21.51	21.47
10	16QAM	1	0	21.83	21.87	21.82
10	16QAM	1	25	21.80	21.81	21.72
10	16QAM	1	49	21.75	21.80	21.77
10	16QAM	25	0	20.68	20.85	20.82
10	16QAM	25	12	20.65	20.76	20.73
10	16QAM	25	25	20.56	20.68	20.61
10	16QAM	50	0	20.58	20.61	20.56



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	22.31	22.39	22.30
5	QPSK	1	12	22.26	22.27	22.18
5	QPSK	1	24	22.20	22.31	22.27
5	QPSK	12	0	21.35	21.46	21.46
5	QPSK	12	7	21.34	21.33	21.37
5	QPSK	12	13	21.31	21.24	21.30
5	QPSK	25	0	21.33	21.40	21.36
5	16QAM	1	0	21.72	21.76	21.71
5	16QAM	1	12	21.69	21.70	21.61
5	16QAM	1	24	21.64	21.69	21.66
5	16QAM	12	0	20.57	20.74	20.71
5	16QAM	12	7	20.54	20.65	20.62
5	16QAM	12	13	20.45	20.57	20.50
5	16QAM	25	0	20.47	20.50	20.45



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	21.87	21.89	21.81
20	QPSK	1	49	21.67	21.77	21.61
20	QPSK	1	99	21.59	21.61	21.56
20	QPSK	50	0	20.97	21.01	20.91
20	QPSK	50	24	20.76	20.69	20.82
20	QPSK	50	50	20.72	20.83	20.70
20	QPSK	100	0	20.75	20.69	20.58
20	16QAM	1	0	20.51	20.58	20.60
20	16QAM	1	49	20.44	20.67	20.62
20	16QAM	1	99	20.34	20.49	20.33
20	16QAM	50	0	19.39	19.47	19.43
20	16QAM	50	24	19.31	19.55	19.35
20	16QAM	50	50	19.35	19.53	19.31
20	16QAM	100	0	19.39	19.36	19.38



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	21.77	21.79	21.71
15	QPSK	1	37	21.57	21.41	21.51
15	QPSK	1	74	21.38	21.51	21.46
15	QPSK	36	0	20.87	20.91	20.81
15	QPSK	36	20	20.66	20.59	20.72
15	QPSK	36	39	20.62	20.73	20.60
15	QPSK	75	0	20.65	20.59	20.48
15	16QAM	1	0	20.41	20.48	20.50
15	16QAM	1	37	20.34	20.57	20.52
15	16QAM	1	74	20.24	20.39	20.23
15	16QAM	36	0	19.29	19.37	19.33
15	16QAM	36	20	19.21	19.45	19.25
15	16QAM	36	39	19.25	19.43	19.21
15	16QAM	75	0	19.29	19.26	19.28



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	21.66	21.68	21.60
10	QPSK	1	25	21.46	21.30	21.40
10	QPSK	1	49	21.27	21.40	21.35
10	QPSK	25	0	20.76	20.80	20.70
10	QPSK	25	12	20.55	20.48	20.61
10	QPSK	25	25	20.51	20.62	20.49
10	QPSK	50	0	20.54	20.48	20.37
10	16QAM	1	0	20.30	20.37	20.39
10	16QAM	1	25	20.23	20.46	20.41
10	16QAM	1	49	20.13	20.28	20.12
10	16QAM	25	0	19.18	19.26	19.22
10	16QAM	25	12	19.10	19.34	19.14
10	16QAM	25	25	19.14	19.32	19.10
10	16QAM	50	0	19.18	19.15	19.17





LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	21.55	21.57	21.49
5	QPSK	1	12	21.35	21.19	21.29
5	QPSK	1	24	21.16	21.29	21.24
5	QPSK	12	0	20.65	20.69	20.59
5	QPSK	12	7	20.44	20.37	20.50
5	QPSK	12	13	20.40	20.51	20.38
5	QPSK	25	0	20.43	20.37	20.26
5	16QAM	1	0	20.19	20.26	20.28
5	16QAM	1	12	20.12	20.35	20.30
5	16QAM	1	24	20.02	20.17	20.01
5	16QAM	12	0	19.07	19.15	19.11
5	16QAM	12	7	18.99	19.23	19.03
5	16QAM	12	13	19.03	19.21	18.99
5	16QAM	25	0	19.07	19.04	19.06



LTE Band 40, Block A						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	38750	/
Frequency (MHz)				/	2310	/
10	QPSK	1	0	/	22.19	/
10	QPSK	1	25	/	22.12	/
10	QPSK	1	49	/	21.89	/
10	QPSK	25	0	/	21.01	/
10	QPSK	25	12	/	20.97	/
10	QPSK	25	25	/	20.98	/
10	QPSK	50	0	/	20.94	/
10	16QAM	1	0	/	21.11	/
10	16QAM	1	25	/	21.16	/
10	16QAM	1	49	/	21.03	/
10	16QAM	25	0	/	20.04	/
10	16QAM	25	12	/	20.06	/
10	16QAM	25	25	/	19.96	/
10	16QAM	50	0	/	19.94	/



LTE Band 40, Block A						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				38725	38750	38775
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	21.90	21.92	21.84
5	QPSK	1	12	21.88	21.78	21.75
5	QPSK	1	24	21.77	21.68	21.86
5	QPSK	12	0	20.97	20.92	20.98
5	QPSK	12	7	21.00	21.04	20.96
5	QPSK	12	13	21.01	20.98	21.00
5	QPSK	25	0	20.97	20.98	21.02
5	16QAM	1	0	21.20	21.17	21.16
5	16QAM	1	12	21.14	21.03	21.14
5	16QAM	1	24	21.15	21.20	21.22
5	16QAM	12	0	20.07	19.91	20.05
5	16QAM	12	7	20.09	20.01	20.18
5	16QAM	12	13	19.99	20.12	20.12
5	16QAM	25	0	19.97	20.16	20.05



LTE Band 40, Block B						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	39200	/
Frequency (MHz)				/	2355	/
10	QPSK	1	0	/	22.16	/
10	QPSK	1	25	/	22.08	/
10	QPSK	1	49	/	21.92	/
10	QPSK	25	0	/	21.15	/
10	QPSK	25	12	/	20.92	/
10	QPSK	25	25	/	21.03	/
10	QPSK	50	0	/	21.88	/
10	16QAM	1	0	/	21.21	/
10	16QAM	1	25	/	21.06	/
10	16QAM	1	49	/	21.15	/
10	16QAM	25	0	/	20.04	/
10	16QAM	25	12	/	20.06	/
10	16QAM	25	25	/	19.96	/
10	16QAM	50	0	/	19.94	/



LTE Band 40, Block B						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39175	39200	39225
Frequency (MHz)				2352.5	2355	2357.5
5	QPSK	1	0	22.14	22.15	22.05
5	QPSK	1	12	22.08	22.07	22.00
5	QPSK	1	24	21.96	22.01	22.10
5	QPSK	12	0	21.07	21.12	21.12
5	QPSK	12	7	21.13	21.10	21.09
5	QPSK	12	13	21.12	21.06	21.16
5	QPSK	25	0	21.03	21.10	21.08
5	16QAM	1	0	21.25	21.19	21.17
5	16QAM	1	12	21.08	21.20	21.13
5	16QAM	1	24	21.32	21.30	21.33
5	16QAM	12	0	20.11	20.12	20.12
5	16QAM	12	7	20.28	20.17	20.19
5	16QAM	12	13	20.20	20.19	20.12
5	16QAM	25	0	20.09	20.05	20.10



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	22.37	22.30	22.39
20	QPSK	1	49	22.17	22.11	22.11
20	QPSK	1	99	22.09	22.11	22.06
20	QPSK	50	0	21.87	21.91	21.95
20	QPSK	50	24	21.76	21.82	21.82
20	QPSK	50	50	21.72	21.70	21.70
20	QPSK	100	0	21.75	21.58	21.58
20	16QAM	1	0	21.01	21.10	21.10
20	16QAM	1	49	20.94	21.12	21.12
20	16QAM	1	99	20.84	20.83	20.83
20	16QAM	50	0	19.89	19.93	19.93
20	16QAM	50	24	19.81	19.85	19.85
20	16QAM	50	50	19.85	19.81	19.81
20	16QAM	100	0	19.89	19.88	19.88



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	22.26	22.19	22.28
15	QPSK	1	37	22.06	22.00	22.00
15	QPSK	1	74	21.98	21.95	21.95
15	QPSK	36	0	21.86	21.80	21.90
15	QPSK	36	20	21.65	21.71	21.71
15	QPSK	36	39	21.61	21.59	21.59
15	QPSK	75	0	21.47	21.47	21.64
15	16QAM	1	0	20.90	20.99	20.99
15	16QAM	1	37	20.83	21.01	21.01
15	16QAM	1	74	20.73	20.72	20.72
15	16QAM	36	0	19.78	19.82	19.82
15	16QAM	36	20	19.70	19.74	19.74
15	16QAM	36	39	19.74	19.70	19.70
15	16QAM	75	0	19.78	19.77	19.77



LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	22.14	22.07	22.16
10	QPSK	1	25	21.94	21.88	21.88
10	QPSK	1	49	21.86	21.83	21.83
10	QPSK	25	0	21.74	21.68	21.78
10	QPSK	25	12	21.53	21.59	21.59
10	QPSK	25	25	21.49	21.47	21.47
10	QPSK	50	0	21.35	21.35	21.52
10	16QAM	1	0	20.78	20.87	20.87
10	16QAM	1	25	20.71	20.89	20.89
10	16QAM	1	49	20.61	20.60	20.60
10	16QAM	25	0	19.66	19.70	19.70
10	16QAM	25	12	19.58	19.62	19.62
10	16QAM	25	25	19.62	19.58	19.58
10	16QAM	50	0	19.66	19.65	19.65





LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	22.05	21.98	22.07
5	QPSK	1	12	21.85	21.79	21.79
5	QPSK	1	24	21.77	21.74	21.74
5	QPSK	12	0	21.65	21.59	21.69
5	QPSK	12	7	21.44	21.50	21.50
5	QPSK	12	13	21.40	21.38	21.38
5	QPSK	25	0	21.26	21.26	21.43
5	16QAM	1	0	20.69	20.78	20.78
5	16QAM	1	12	20.62	20.80	20.80
5	16QAM	1	24	20.52	20.51	20.51
5	16QAM	12	0	19.57	19.61	19.61
5	16QAM	12	7	19.49	19.53	19.53
5	16QAM	12	13	19.53	19.49	19.49
5	16QAM	25	0	19.57	19.56	19.56



**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	17.49	0.056	17.56	0.057	17.40	0.055
20	QPSK	1	49	17.22	0.053	17.34	0.054	17.41	0.055
20	QPSK	1	99	17.21	0.053	17.17	0.052	17.22	0.053
20	QPSK	50	0	16.33	0.043	16.52	0.045	16.37	0.043
20	QPSK	50	24	16.25	0.042	16.32	0.043	16.29	0.043
20	QPSK	50	50	16.29	0.043	16.23	0.042	16.38	0.043
20	QPSK	100	0	16.26	0.042	16.32	0.043	16.30	0.043
20	16QAM	1	0	16.74	0.047	16.81	0.048	16.78	0.048
20	16QAM	1	49	16.61	0.046	16.51	0.045	16.67	0.046
20	16QAM	1	99	16.50	0.045	16.55	0.045	16.70	0.047
20	16QAM	50	0	15.22	0.033	15.17	0.033	15.26	0.034
20	16QAM	50	24	15.24	0.033	15.33	0.034	15.39	0.035
20	16QAM	50	50	15.24	0.033	15.30	0.034	15.36	0.034
20	16QAM	100	0	15.27	0.034	15.35	0.034	15.29	0.034



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	17.35	0.054	17.46	0.056	17.39	0.055
15	QPSK	1	37	17.22	0.053	17.34	0.054	17.41	0.055
15	QPSK	1	74	17.21	0.053	17.17	0.052	17.22	0.053
15	QPSK	36	0	16.33	0.043	16.52	0.045	16.37	0.043
15	QPSK	36	20	16.25	0.042	16.32	0.043	16.29	0.043
15	QPSK	36	39	16.29	0.043	16.23	0.042	16.38	0.043
15	QPSK	75	0	16.26	0.042	16.32	0.043	16.30	0.043
15	16QAM	1	0	16.74	0.047	16.81	0.048	16.78	0.048
15	16QAM	1	37	16.61	0.046	16.51	0.045	16.67	0.046
15	16QAM	1	74	16.50	0.045	16.55	0.045	16.70	0.047
15	16QAM	36	0	15.22	0.033	15.17	0.033	15.26	0.034
15	16QAM	36	20	15.24	0.033	15.33	0.034	15.39	0.035
15	16QAM	36	39	15.24	0.033	15.30	0.034	15.36	0.034
15	16QAM	75	0	15.27	0.034	15.35	0.034	15.29	0.034



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	17.24	0.053	17.35	0.054	17.28	0.053
10	QPSK	1	25	17.11	0.051	17.23	0.053	17.30	0.054
10	QPSK	1	49	17.10	0.051	17.06	0.051	17.11	0.051
10	QPSK	25	0	16.22	0.042	16.41	0.044	16.26	0.042
10	QPSK	25	12	16.14	0.041	16.21	0.042	16.18	0.041
10	QPSK	25	25	16.18	0.041	16.12	0.041	16.27	0.042
10	QPSK	50	0	16.15	0.041	16.21	0.042	16.19	0.042
10	16QAM	1	0	16.63	0.046	16.70	0.047	16.67	0.046
10	16QAM	1	25	16.50	0.045	16.40	0.044	16.56	0.045
10	16QAM	1	49	16.39	0.044	16.44	0.044	16.59	0.046
10	16QAM	25	0	15.11	0.032	15.06	0.032	15.15	0.033
10	16QAM	25	12	15.13	0.033	15.22	0.033	15.28	0.034
10	16QAM	25	25	15.13	0.033	15.19	0.033	15.25	0.033
10	16QAM	50	0	15.16	0.033	15.24	0.033	15.18	0.033



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	17.12	0.052	17.23	0.053	17.16	0.052
5	QPSK	1	12	16.99	0.050	17.11	0.051	17.18	0.052
5	QPSK	1	24	16.98	0.050	16.94	0.049	16.99	0.050
5	QPSK	12	0	16.10	0.041	16.29	0.043	16.14	0.041
5	QPSK	12	7	16.02	0.040	16.09	0.041	16.06	0.040
5	QPSK	12	13	16.06	0.040	16.00	0.040	16.15	0.041
5	QPSK	25	0	16.03	0.040	16.09	0.041	16.07	0.040
5	16QAM	1	0	16.51	0.045	16.58	0.045	16.55	0.045
5	16QAM	1	12	16.38	0.043	16.28	0.042	16.44	0.044
5	16QAM	1	24	16.27	0.042	16.32	0.043	16.47	0.044
5	16QAM	12	0	14.99	0.032	14.94	0.031	15.03	0.032
5	16QAM	12	7	15.01	0.032	15.10	0.032	15.16	0.033
5	16QAM	12	13	15.01	0.032	15.07	0.032	15.13	0.033
5	16QAM	25	0	15.04	0.032	15.12	0.033	15.06	0.032



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	17.01	0.050	17.12	0.052	17.05	0.051
3	QPSK	1	8	16.88	0.049	17.00	0.050	17.07	0.051
3	QPSK	1	14	16.87	0.049	16.83	0.048	16.88	0.049
3	QPSK	8	0	15.99	0.040	16.18	0.041	16.03	0.040
3	QPSK	8	4	15.91	0.039	15.98	0.040	15.95	0.039
3	QPSK	8	7	15.95	0.039	15.89	0.039	16.04	0.040
3	QPSK	15	0	15.92	0.039	15.98	0.040	15.96	0.039
3	16QAM	1	0	16.40	0.044	16.47	0.044	16.44	0.044
3	16QAM	1	8	16.27	0.042	16.17	0.041	16.33	0.043
3	16QAM	1	14	16.16	0.041	16.21	0.042	16.36	0.043
3	16QAM	8	0	14.88	0.031	14.83	0.030	14.92	0.031
3	16QAM	8	4	14.90	0.031	14.99	0.032	15.05	0.032
3	16QAM	8	7	14.90	0.031	14.96	0.031	15.02	0.032
3	16QAM	15	0	14.93	0.031	15.01	0.032	14.95	0.031



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	16.89	0.049	17.00	0.050	16.93	0.049
1.4	QPSK	1	3	16.76	0.047	16.88	0.049	16.95	0.050
1.4	QPSK	1	5	16.75	0.047	16.71	0.047	16.76	0.047
1.4	QPSK	3	0	15.87	0.039	16.06	0.040	15.91	0.039
1.4	QPSK	3	1	15.79	0.038	15.86	0.039	15.83	0.038
1.4	QPSK	3	3	15.83	0.038	15.77	0.038	15.92	0.039
1.4	QPSK	6	0	15.80	0.038	15.86	0.039	15.84	0.038
1.4	16QAM	1	0	16.28	0.042	16.35	0.043	16.32	0.043
1.4	16QAM	1	3	16.15	0.041	16.05	0.040	16.21	0.042
1.4	16QAM	1	5	16.04	0.040	16.09	0.041	16.24	0.042
1.4	16QAM	3	0	14.76	0.030	14.71	0.030	14.80	0.030
1.4	16QAM	3	1	14.78	0.030	14.87	0.031	14.93	0.031
1.4	16QAM	3	3	14.78	0.030	14.84	0.030	14.90	0.031
1.4	16QAM	6	0	14.81	0.030	14.89	0.031	14.83	0.030



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	22.41	0.174	22.51	0.178	22.45	0.176
20	QPSK	1	49	22.31	0.170	22.41	0.174	22.39	0.173
20	QPSK	1	99	22.37	0.173	22.33	0.171	22.35	0.172
20	QPSK	50	0	21.43	0.139	21.46	0.140	21.40	0.138
20	QPSK	50	24	21.36	0.137	21.39	0.138	21.34	0.136
20	QPSK	50	50	21.31	0.135	21.20	0.132	21.37	0.137
20	QPSK	100	0	21.38	0.137	21.45	0.140	21.34	0.136
20	16QAM	1	0	21.69	0.148	21.80	0.151	21.59	0.144
20	16QAM	1	49	21.68	0.147	21.69	0.148	21.56	0.143
20	16QAM	1	99	21.54	0.143	21.58	0.144	21.54	0.143
20	16QAM	50	0	20.21	0.105	20.33	0.108	20.31	0.107
20	16QAM	50	24	20.42	0.110	20.38	0.109	20.43	0.110
20	16QAM	50	50	20.31	0.107	20.27	0.106	20.34	0.108
20	16QAM	100	0	20.42	0.110	20.25	0.106	20.26	0.106





LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	22.30	0.170	22.40	0.174	22.34	0.171
15	QPSK	1	37	22.20	0.166	22.30	0.170	22.28	0.169
15	QPSK	1	74	22.26	0.168	22.22	0.167	22.24	0.167
15	QPSK	36	0	21.32	0.136	21.40	0.138	21.29	0.135
15	QPSK	36	20	21.25	0.133	21.28	0.134	21.23	0.133
15	QPSK	36	39	21.20	0.132	21.09	0.129	21.26	0.134
15	QPSK	75	0	21.27	0.134	21.34	0.136	21.23	0.133
15	16QAM	1	0	21.58	0.144	21.69	0.148	21.48	0.141
15	16QAM	1	37	21.57	0.144	21.58	0.144	21.45	0.140
15	16QAM	1	74	21.43	0.139	21.47	0.140	21.43	0.139
15	16QAM	36	0	20.10	0.102	20.22	0.105	20.20	0.105
15	16QAM	36	20	20.31	0.107	20.27	0.106	20.32	0.108
15	16QAM	36	39	20.20	0.105	20.16	0.104	20.23	0.105
15	16QAM	75	0	20.31	0.107	20.14	0.103	20.15	0.104



LTE Band 4				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	22.20	0.166	22.30	0.170	22.24	0.167
10	QPSK	1	25	22.10	0.162	22.20	0.166	22.18	0.165
10	QPSK	1	49	22.16	0.164	22.12	0.163	22.14	0.164
10	QPSK	25	0	21.22	0.132	21.30	0.135	21.19	0.132
10	QPSK	25	12	21.15	0.130	21.18	0.131	21.13	0.130
10	QPSK	25	25	21.10	0.129	20.99	0.126	21.16	0.131
10	QPSK	50	0	21.17	0.131	21.24	0.133	21.13	0.130
10	16QAM	1	0	21.48	0.141	21.59	0.144	21.38	0.137
10	16QAM	1	25	21.47	0.140	21.48	0.141	21.35	0.136
10	16QAM	1	49	21.33	0.136	21.37	0.137	21.33	0.136
10	16QAM	25	0	20.00	0.100	20.12	0.103	20.10	0.102
10	16QAM	25	12	20.21	0.105	20.17	0.104	20.22	0.105
10	16QAM	25	25	20.10	0.102	20.06	0.101	20.13	0.103
10	16QAM	50	0	20.21	0.105	20.04	0.101	20.05	0.101



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	22.08	0.161	22.18	0.165	22.12	0.163
5	QPSK	1	12	21.98	0.158	22.08	0.161	22.06	0.161
5	QPSK	1	24	22.04	0.160	22.00	0.158	22.02	0.159
5	QPSK	12	0	21.10	0.129	21.18	0.131	21.07	0.128
5	QPSK	12	7	21.03	0.127	21.06	0.128	21.01	0.126
5	QPSK	12	13	20.98	0.125	20.87	0.122	21.04	0.127
5	QPSK	25	0	21.05	0.127	21.12	0.129	21.01	0.126
5	16QAM	1	0	21.36	0.137	21.47	0.140	21.26	0.134
5	16QAM	1	12	21.35	0.136	21.36	0.137	21.23	0.133
5	16QAM	1	24	21.21	0.132	21.25	0.133	21.21	0.132
5	16QAM	12	0	19.88	0.097	20.00	0.100	19.98	0.100
5	16QAM	12	7	20.09	0.102	20.05	0.101	20.10	0.102
5	16QAM	12	13	19.98	0.100	19.94	0.099	20.01	0.100
5	16QAM	25	0	20.09	0.102	19.92	0.098	19.93	0.098



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	21.98	0.158	22.08	0.161	22.02	0.159
3	QPSK	1	8	21.88	0.154	21.98	0.158	21.96	0.157
3	QPSK	1	14	21.94	0.156	21.90	0.155	21.92	0.156
3	QPSK	8	0	21.00	0.126	21.08	0.128	20.97	0.125
3	QPSK	8	4	20.93	0.124	20.96	0.125	20.91	0.123
3	QPSK	8	7	20.88	0.122	20.77	0.119	20.94	0.124
3	QPSK	15	0	20.95	0.124	21.02	0.126	20.91	0.123
3	16QAM	1	0	21.26	0.134	21.37	0.137	21.16	0.131
3	16QAM	1	8	21.25	0.133	21.26	0.134	21.13	0.130
3	16QAM	1	14	21.11	0.129	21.15	0.130	21.11	0.129
3	16QAM	8	0	19.78	0.095	19.90	0.098	19.88	0.097
3	16QAM	8	4	19.99	0.100	19.95	0.099	20.00	0.100
3	16QAM	8	7	19.88	0.097	19.84	0.096	19.91	0.098
3	16QAM	15	0	19.99	0.100	19.82	0.096	19.83	0.096



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	21.86	0.153	21.96	0.157	21.90	0.155
1.4	QPSK	1	3	21.76	0.150	21.86	0.153	21.84	0.153
1.4	QPSK	1	5	21.82	0.152	21.78	0.151	21.80	0.151
1.4	QPSK	3	0	20.88	0.122	20.96	0.125	20.85	0.122
1.4	QPSK	3	1	20.81	0.121	20.84	0.121	20.79	0.120
1.4	QPSK	3	3	20.76	0.119	20.65	0.116	20.82	0.121
1.4	QPSK	6	0	20.83	0.121	20.90	0.123	20.79	0.120
1.4	16QAM	1	0	21.14	0.130	21.25	0.133	21.04	0.127
1.4	16QAM	1	3	21.13	0.130	21.14	0.130	21.01	0.126
1.4	16QAM	1	5	20.99	0.126	21.03	0.127	20.99	0.126
1.4	16QAM	3	0	19.66	0.092	19.78	0.095	19.76	0.095
1.4	16QAM	3	1	19.87	0.097	19.83	0.096	19.88	0.097
1.4	16QAM	3	3	19.76	0.095	19.72	0.094	19.79	0.095
1.4	16QAM	6	0	19.87	0.097	19.70	0.093	19.71	0.094



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	19.95	0.099	20.01	0.100	19.91	0.098
10	QPSK	1	25	19.66	0.092	19.96	0.099	19.84	0.096
10	QPSK	1	49	19.74	0.094	19.77	0.095	19.64	0.092
10	QPSK	25	0	18.89	0.077	19.06	0.081	19.01	0.080
10	QPSK	25	12	18.89	0.077	18.80	0.076	18.77	0.075
10	QPSK	25	25	18.91	0.078	18.85	0.077	18.92	0.078
10	QPSK	50	0	18.81	0.076	18.91	0.078	18.82	0.076
10	16QAM	1	0	19.36	0.086	19.37	0.086	19.26	0.084
10	16QAM	1	25	19.36	0.086	19.08	0.081	19.05	0.080
10	16QAM	1	49	19.08	0.081	19.14	0.082	19.19	0.083
10	16QAM	25	0	17.89	0.062	17.82	0.061	17.79	0.060
10	16QAM	25	12	17.97	0.063	17.87	0.061	17.91	0.062
10	16QAM	25	25	17.86	0.061	17.86	0.061	17.86	0.061
10	16QAM	50	0	17.98	0.063	17.85	0.061	17.85	0.061



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	19.84	0.096	19.90	0.098	19.80	0.095
5	QPSK	1	12	19.55	0.090	19.85	0.097	19.73	0.094
5	QPSK	1	24	19.63	0.092	19.66	0.092	19.53	0.090
5	QPSK	12	0	18.78	0.076	18.95	0.079	18.90	0.078
5	QPSK	12	7	18.78	0.076	18.69	0.074	18.66	0.073
5	QPSK	12	13	18.80	0.076	18.74	0.075	18.81	0.076
5	QPSK	25	0	18.70	0.074	18.80	0.076	18.71	0.074
5	16QAM	1	0	19.25	0.084	19.26	0.084	19.15	0.082
5	16QAM	1	12	19.25	0.084	18.97	0.079	18.94	0.078
5	16QAM	1	24	18.97	0.079	19.03	0.080	19.08	0.081
5	16QAM	12	0	17.78	0.060	17.71	0.059	17.68	0.059
5	16QAM	12	7	17.86	0.061	17.76	0.060	17.80	0.060
5	16QAM	12	13	17.75	0.060	17.75	0.060	17.75	0.060
5	16QAM	25	0	17.87	0.061	17.74	0.059	17.74	0.059



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	19.72	0.094	19.78	0.095	19.68	0.093
3	QPSK	1	8	19.43	0.088	19.73	0.094	19.61	0.091
3	QPSK	1	14	19.51	0.089	19.54	0.090	19.41	0.087
3	QPSK	8	0	18.66	0.073	18.83	0.076	18.78	0.076
3	QPSK	8	4	18.66	0.073	18.57	0.072	18.54	0.071
3	QPSK	8	7	18.68	0.074	18.62	0.073	18.69	0.074
3	QPSK	15	0	18.58	0.072	18.68	0.074	18.59	0.072
3	16QAM	1	0	19.13	0.082	19.14	0.082	19.03	0.080
3	16QAM	1	8	19.13	0.082	18.85	0.077	18.82	0.076
3	16QAM	1	14	18.85	0.077	18.91	0.078	18.96	0.079
3	16QAM	8	0	17.66	0.058	17.59	0.057	17.56	0.057
3	16QAM	8	4	17.74	0.059	17.64	0.058	17.68	0.059
3	16QAM	8	7	17.63	0.058	17.63	0.058	17.63	0.058
3	16QAM	15	0	17.75	0.060	17.62	0.058	17.62	0.058





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	19.61	0.091	19.67	0.093	19.57	0.091
1.4	QPSK	1	3	19.32	0.086	19.62	0.092	19.50	0.089
1.4	QPSK	1	5	19.40	0.087	19.43	0.088	19.30	0.085
1.4	QPSK	3	0	18.55	0.072	18.72	0.074	18.67	0.074
1.4	QPSK	3	1	18.55	0.072	18.46	0.070	18.43	0.070
1.4	QPSK	3	3	18.57	0.072	18.51	0.071	18.58	0.072
1.4	QPSK	6	0	18.47	0.070	18.57	0.072	18.48	0.070
1.4	16QAM	1	0	19.02	0.080	19.03	0.080	18.92	0.078
1.4	16QAM	1	3	19.02	0.080	18.74	0.075	18.71	0.074
1.4	16QAM	1	5	18.74	0.075	18.80	0.076	18.85	0.077
1.4	16QAM	3	0	17.55	0.057	17.48	0.056	17.45	0.056
1.4	16QAM	3	1	17.63	0.058	17.53	0.057	17.57	0.057
1.4	16QAM	3	3	17.52	0.056	17.52	0.056	17.52	0.056
1.4	16QAM	6	0	17.64	0.058	17.51	0.056	17.51	0.056



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	21.49	0.141	21.58	0.144	21.42	0.139
20	QPSK	1	49	21.43	0.139	21.50	0.141	21.40	0.138
20	QPSK	1	99	21.37	0.137	21.38	0.137	21.40	0.138
20	QPSK	50	0	20.39	0.109	20.45	0.111	20.37	0.109
20	QPSK	50	24	20.39	0.109	20.33	0.108	20.23	0.105
20	QPSK	50	50	20.32	0.108	20.38	0.109	20.31	0.107
20	QPSK	100	0	20.35	0.108	20.41	0.110	20.30	0.107
20	16QAM	1	0	20.56	0.114	20.66	0.116	20.79	0.120
20	16QAM	1	49	20.53	0.113	20.64	0.116	20.65	0.116
20	16QAM	1	99	20.46	0.111	20.72	0.118	20.55	0.114
20	16QAM	50	0	19.34	0.086	19.27	0.085	19.34	0.086
20	16QAM	50	24	19.35	0.086	19.36	0.086	19.17	0.083
20	16QAM	50	50	19.42	0.087	19.35	0.086	19.36	0.086
20	16QAM	100	0	19.30	0.085	19.32	0.086	19.30	0.085



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	21.38	0.137	21.48	0.141	21.33	0.136
15	QPSK	1	37	21.33	0.136	21.40	0.138	21.30	0.135
15	QPSK	1	74	21.27	0.134	21.28	0.134	21.30	0.135
15	QPSK	36	0	20.13	0.103	20.35	0.108	20.08	0.102
15	QPSK	36	20	20.29	0.107	20.23	0.105	20.13	0.103
15	QPSK	36	39	20.22	0.105	20.28	0.107	20.21	0.105
15	QPSK	75	0	20.25	0.106	20.31	0.107	20.20	0.105
15	16QAM	1	0	20.46	0.111	20.56	0.114	20.69	0.117
15	16QAM	1	37	20.43	0.110	20.54	0.113	20.55	0.114
15	16QAM	1	74	20.36	0.109	20.62	0.115	20.45	0.111
15	16QAM	36	0	19.24	0.084	19.17	0.083	19.24	0.084
15	16QAM	36	20	19.25	0.084	19.26	0.084	19.07	0.081
15	16QAM	36	39	19.32	0.086	19.25	0.084	19.26	0.084
15	16QAM	75	0	19.20	0.083	19.22	0.084	19.20	0.083



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	21.28	0.134	21.38	0.137	21.23	0.133
10	QPSK	1	25	21.23	0.133	21.30	0.135	21.20	0.132
10	QPSK	1	49	21.17	0.131	21.18	0.131	21.20	0.132
10	QPSK	25	0	20.03	0.101	20.25	0.106	19.98	0.100
10	QPSK	25	12	20.19	0.104	20.13	0.103	20.03	0.101
10	QPSK	25	25	20.12	0.103	20.18	0.104	20.11	0.103
10	QPSK	50	0	20.15	0.104	20.21	0.105	20.10	0.102
10	16QAM	1	0	20.36	0.109	20.46	0.111	20.59	0.115
10	16QAM	1	25	20.33	0.108	20.44	0.111	20.45	0.111
10	16QAM	1	49	20.26	0.106	20.52	0.113	20.35	0.108
10	16QAM	25	0	19.14	0.082	19.07	0.081	19.14	0.082
10	16QAM	25	12	19.15	0.082	19.16	0.082	18.97	0.079
10	16QAM	25	25	19.22	0.084	19.15	0.082	19.16	0.082
10	16QAM	50	0	19.10	0.081	19.12	0.082	19.10	0.081



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	21.17	0.131	21.27	0.134	21.12	0.129
5	QPSK	1	12	21.12	0.129	21.19	0.132	21.09	0.129
5	QPSK	1	24	21.06	0.128	21.07	0.128	21.09	0.129
5	QPSK	12	0	19.92	0.098	20.14	0.103	19.87	0.097
5	QPSK	12	7	20.08	0.102	20.02	0.100	19.92	0.098
5	QPSK	12	13	20.01	0.100	20.07	0.102	20.00	0.100
5	QPSK	25	0	20.04	0.101	20.10	0.102	19.99	0.100
5	16QAM	1	0	20.25	0.106	20.35	0.108	20.48	0.112
5	16QAM	1	12	20.22	0.105	20.33	0.108	20.34	0.108
5	16QAM	1	24	20.15	0.104	20.41	0.110	20.24	0.106
5	16QAM	12	0	19.03	0.080	18.96	0.079	19.03	0.080
5	16QAM	12	7	19.04	0.080	19.05	0.080	18.86	0.077
5	16QAM	12	13	19.11	0.081	19.04	0.080	19.05	0.080
5	16QAM	25	0	18.99	0.079	19.01	0.080	18.99	0.079



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	19.32	0.086	19.48	0.089	19.42	0.087
10	QPSK	1	25	19.12	0.082	19.42	0.087	19.30	0.085
10	QPSK	1	49	19.20	0.083	19.23	0.084	19.10	0.081
10	QPSK	25	0	18.40	0.069	18.51	0.071	18.43	0.070
10	QPSK	25	12	18.35	0.068	18.26	0.067	18.23	0.067
10	QPSK	25	25	18.37	0.069	18.31	0.068	18.38	0.069
10	QPSK	50	0	18.27	0.067	18.37	0.069	18.20	0.066
10	16QAM	1	0	18.82	0.076	18.83	0.076	18.72	0.074
10	16QAM	1	25	18.82	0.076	18.54	0.071	18.51	0.071
10	16QAM	1	49	18.54	0.071	18.60	0.072	18.65	0.073
10	16QAM	25	0	17.35	0.054	17.28	0.053	17.25	0.053
10	16QAM	25	12	17.43	0.055	17.33	0.054	17.37	0.055
10	16QAM	25	25	17.32	0.054	17.32	0.054	17.32	0.054
10	16QAM	50	0	17.44	0.055	17.31	0.054	17.31	0.054



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	19.13	0.082	19.37	0.086	19.31	0.085
5	QPSK	1	12	19.01	0.080	19.31	0.085	19.19	0.083
5	QPSK	1	24	19.09	0.081	19.12	0.082	18.99	0.079
5	QPSK	12	0	18.29	0.067	18.40	0.069	18.32	0.068
5	QPSK	12	7	18.24	0.067	18.15	0.065	18.12	0.065
5	QPSK	12	13	18.26	0.067	18.20	0.066	18.27	0.067
5	QPSK	25	0	18.16	0.065	18.26	0.067	18.09	0.064
5	16QAM	1	0	18.71	0.074	18.72	0.074	18.61	0.073
5	16QAM	1	12	18.71	0.074	18.43	0.070	18.40	0.069
5	16QAM	1	24	18.43	0.070	18.49	0.071	18.54	0.071
5	16QAM	12	0	17.24	0.053	17.17	0.052	17.14	0.052
5	16QAM	12	7	17.32	0.054	17.22	0.053	17.26	0.053
5	16QAM	12	13	17.21	0.053	17.21	0.053	17.21	0.053
5	16QAM	25	0	17.33	0.054	17.20	0.052	17.20	0.052



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	19.02	0.080	19.26	0.084	19.20	0.083
3	QPSK	1	8	18.90	0.078	19.20	0.083	19.08	0.081
3	QPSK	1	14	18.98	0.079	19.01	0.080	18.88	0.077
3	QPSK	8	0	18.18	0.066	18.29	0.067	18.21	0.066
3	QPSK	8	4	18.13	0.065	18.04	0.064	18.01	0.063
3	QPSK	8	7	18.15	0.065	18.09	0.064	18.16	0.065
3	QPSK	15	0	18.05	0.064	18.15	0.065	17.98	0.063
3	16QAM	1	0	18.60	0.072	18.61	0.073	18.50	0.071
3	16QAM	1	8	18.60	0.072	18.32	0.068	18.29	0.067
3	16QAM	1	14	18.32	0.068	18.38	0.069	18.43	0.070
3	16QAM	8	0	17.13	0.052	17.06	0.051	17.03	0.050
3	16QAM	8	4	17.21	0.053	17.11	0.051	17.15	0.052
3	16QAM	8	7	17.10	0.051	17.10	0.051	17.10	0.051
3	16QAM	15	0	17.22	0.053	17.09	0.051	17.09	0.051





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	18.92	0.078	19.16	0.082	19.10	0.081
1.4	QPSK	1	3	18.80	0.076	19.10	0.081	18.98	0.079
1.4	QPSK	1	5	18.88	0.077	18.91	0.078	18.78	0.076
1.4	QPSK	3	0	18.08	0.064	18.19	0.066	18.11	0.065
1.4	QPSK	3	1	18.03	0.064	17.94	0.062	17.91	0.062
1.4	QPSK	3	3	18.05	0.064	17.99	0.063	18.06	0.064
1.4	QPSK	6	0	17.95	0.062	18.05	0.064	17.88	0.061
1.4	16QAM	1	0	18.50	0.071	18.51	0.071	18.40	0.069
1.4	16QAM	1	3	18.50	0.071	18.22	0.066	18.19	0.066
1.4	16QAM	1	5	18.22	0.066	18.28	0.067	18.33	0.068
1.4	16QAM	3	0	17.03	0.050	16.96	0.050	16.93	0.049
1.4	16QAM	3	1	17.11	0.051	17.01	0.050	17.05	0.051
1.4	16QAM	3	3	17.00	0.050	17.00	0.050	17.00	0.050
1.4	16QAM	6	0	17.12	0.052	16.99	0.050	16.99	0.050



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	20.03	0.101	20.11	0.103	20.02	0.100
10	QPSK	1	25	19.98	0.100	19.99	0.100	19.90	0.098
10	QPSK	1	49	19.92	0.098	20.03	0.101	19.99	0.100
10	QPSK	25	0	19.07	0.081	19.18	0.083	19.18	0.083
10	QPSK	25	12	19.06	0.081	19.05	0.080	19.09	0.081
10	QPSK	25	25	19.03	0.080	18.96	0.079	19.02	0.080
10	QPSK	50	0	19.05	0.080	19.12	0.082	19.08	0.081
10	16QAM	1	0	19.44	0.088	19.48	0.089	19.43	0.088
10	16QAM	1	25	19.41	0.087	19.42	0.087	19.33	0.086
10	16QAM	1	49	19.36	0.086	19.41	0.087	19.38	0.087
10	16QAM	25	0	18.29	0.067	18.46	0.070	18.43	0.070
10	16QAM	25	12	18.26	0.067	18.37	0.069	18.34	0.068
10	16QAM	25	25	18.17	0.066	18.29	0.067	18.22	0.066
10	16QAM	50	0	18.19	0.066	18.22	0.066	18.17	0.066



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	19.92	0.098	20.00	0.100	19.91	0.098
5	QPSK	1	12	19.87	0.097	19.88	0.097	19.79	0.095
5	QPSK	1	24	19.81	0.096	19.92	0.098	19.88	0.097
5	QPSK	12	0	18.96	0.079	19.07	0.081	19.07	0.081
5	QPSK	12	7	18.95	0.079	18.94	0.078	18.98	0.079
5	QPSK	12	13	18.92	0.078	18.85	0.077	18.91	0.078
5	QPSK	25	0	18.94	0.078	19.01	0.080	18.97	0.079
5	16QAM	1	0	19.33	0.086	19.37	0.086	19.32	0.086
5	16QAM	1	12	19.30	0.085	19.31	0.085	19.22	0.084
5	16QAM	1	24	19.25	0.084	19.30	0.085	19.27	0.085
5	16QAM	12	0	18.18	0.066	18.35	0.068	18.32	0.068
5	16QAM	12	7	18.15	0.065	18.26	0.067	18.23	0.067
5	16QAM	12	13	18.06	0.064	18.18	0.066	18.11	0.065
5	16QAM	25	0	18.08	0.064	18.11	0.065	18.06	0.064



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37850		38000		38150	
Frequency (MHz)				2580		2595		2610	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	22.10	0.162	22.12	0.163	22.04	0.160
20	QPSK	1	49	21.90	0.155	22.00	0.158	21.84	0.153
20	QPSK	1	99	21.82	0.152	21.84	0.153	21.79	0.151
20	QPSK	50	0	21.20	0.132	21.24	0.133	21.14	0.130
20	QPSK	50	24	20.99	0.126	20.92	0.124	21.05	0.127
20	QPSK	50	50	20.95	0.124	21.06	0.128	20.93	0.124
20	QPSK	100	0	20.98	0.125	20.92	0.124	20.81	0.121
20	16QAM	1	0	20.74	0.119	20.81	0.121	20.83	0.121
20	16QAM	1	49	20.67	0.117	20.90	0.123	20.85	0.122
20	16QAM	1	99	20.57	0.114	20.72	0.118	20.56	0.114
20	16QAM	50	0	19.62	0.092	19.70	0.093	19.66	0.092
20	16QAM	50	24	19.54	0.090	19.78	0.095	19.58	0.091
20	16QAM	50	50	19.58	0.091	19.76	0.095	19.54	0.090
20	16QAM	100	0	19.62	0.092	19.59	0.091	19.61	0.091



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37825		38000		38175	
Frequency (MHz)				2577.5		2595		2612.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	22.00	0.158	22.02	0.159	21.94	0.156
15	QPSK	1	37	21.80	0.151	21.64	0.146	21.74	0.149
15	QPSK	1	74	21.61	0.145	21.74	0.149	21.69	0.148
15	QPSK	36	0	21.10	0.129	21.14	0.130	21.04	0.127
15	QPSK	36	20	20.89	0.123	20.82	0.121	20.95	0.124
15	QPSK	36	39	20.85	0.122	20.96	0.125	20.83	0.121
15	QPSK	75	0	20.88	0.122	20.82	0.121	20.71	0.118
15	16QAM	1	0	20.64	0.116	20.71	0.118	20.73	0.118
15	16QAM	1	37	20.57	0.114	20.80	0.120	20.75	0.119
15	16QAM	1	74	20.47	0.111	20.62	0.115	20.46	0.111
15	16QAM	36	0	19.52	0.090	19.60	0.091	19.56	0.090
15	16QAM	36	20	19.44	0.088	19.68	0.093	19.48	0.089
15	16QAM	36	39	19.48	0.089	19.66	0.092	19.44	0.088
15	16QAM	75	0	19.52	0.090	19.49	0.089	19.51	0.089



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37800		38000		38200	
Frequency (MHz)				2575		2595		2615	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.89	0.155	21.91	0.155	21.83	0.152
10	QPSK	1	25	21.69	0.148	21.53	0.142	21.63	0.146
10	QPSK	1	49	21.50	0.141	21.63	0.146	21.58	0.144
10	QPSK	25	0	20.99	0.126	21.03	0.127	20.93	0.124
10	QPSK	25	12	20.78	0.120	20.71	0.118	20.84	0.121
10	QPSK	25	25	20.74	0.119	20.85	0.122	20.72	0.118
10	QPSK	50	0	20.77	0.119	20.71	0.118	20.60	0.115
10	16QAM	1	0	20.53	0.113	20.60	0.115	20.62	0.115
10	16QAM	1	25	20.46	0.111	20.69	0.117	20.64	0.116
10	16QAM	1	49	20.36	0.109	20.51	0.112	20.35	0.108
10	16QAM	25	0	19.41	0.087	19.49	0.089	19.45	0.088
10	16QAM	25	12	19.33	0.086	19.57	0.091	19.37	0.086
10	16QAM	25	25	19.37	0.086	19.55	0.090	19.33	0.086
10	16QAM	50	0	19.41	0.087	19.38	0.087	19.40	0.087



LTE Band 38				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				37775		38000		38225	
Frequency (MHz)				2572.5		2595		2617.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.78	0.151	21.80	0.151	21.72	0.149
5	QPSK	1	12	21.58	0.144	21.42	0.139	21.52	0.142
5	QPSK	1	24	21.39	0.138	21.52	0.142	21.47	0.140
5	QPSK	12	0	20.88	0.122	20.92	0.124	20.82	0.121
5	QPSK	12	7	20.67	0.117	20.60	0.115	20.73	0.118
5	QPSK	12	13	20.63	0.116	20.74	0.119	20.61	0.115
5	QPSK	25	0	20.66	0.116	20.60	0.115	20.49	0.112
5	16QAM	1	0	20.42	0.110	20.49	0.112	20.51	0.112
5	16QAM	1	12	20.35	0.108	20.58	0.114	20.53	0.113
5	16QAM	1	24	20.25	0.106	20.40	0.110	20.24	0.106
5	16QAM	12	0	19.30	0.085	19.38	0.087	19.34	0.086
5	16QAM	12	7	19.22	0.084	19.46	0.088	19.26	0.084
5	16QAM	12	13	19.26	0.084	19.44	0.088	19.22	0.084
5	16QAM	25	0	19.30	0.085	19.27	0.085	19.29	0.085



LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		38750		/	
Frequency (MHz)				/		2310		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	22.49	0.177	/	/
10	QPSK	1	25	/	/	22.42	0.175	/	/
10	QPSK	1	49	/	/	22.19	0.166	/	/
10	QPSK	25	0	/	/	21.31	0.135	/	/
10	QPSK	25	12	/	/	21.27	0.134	/	/
10	QPSK	25	25	/	/	21.28	0.134	/	/
10	QPSK	50	0	/	/	21.24	0.133	/	/
10	16QAM	1	0	/	/	21.41	0.138	/	/
10	16QAM	1	25	/	/	21.46	0.140	/	/
10	16QAM	1	49	/	/	21.33	0.136	/	/
10	16QAM	25	0	/	/	20.34	0.108	/	/
10	16QAM	25	12	/	/	20.36	0.109	/	/
10	16QAM	25	25	/	/	20.26	0.106	/	/
10	16QAM	50	0	/	/	20.24	0.106	/	/





LTE Band 40, Block A				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				38725		38750		38775	
Frequency (MHz)				2307.5		2310		2312.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	22.20	0.166	22.22	0.167	22.14	0.164
5	QPSK	1	12	22.18	0.165	22.08	0.161	22.05	0.160
5	QPSK	1	24	22.07	0.161	21.98	0.158	22.16	0.164
5	QPSK	12	0	21.27	0.134	21.22	0.132	21.28	0.134
5	QPSK	12	7	21.30	0.135	21.34	0.136	21.26	0.134
5	QPSK	12	13	21.31	0.135	21.28	0.134	21.30	0.135
5	QPSK	25	0	21.27	0.134	21.28	0.134	21.32	0.136
5	16QAM	1	0	21.50	0.141	21.47	0.140	21.46	0.140
5	16QAM	1	12	21.44	0.139	21.33	0.136	21.44	0.139
5	16QAM	1	24	21.45	0.140	21.50	0.141	21.52	0.142
5	16QAM	12	0	20.37	0.109	20.21	0.105	20.35	0.108
5	16QAM	12	7	20.39	0.109	20.31	0.107	20.48	0.112
5	16QAM	12	13	20.29	0.107	20.42	0.110	20.42	0.110
5	16QAM	25	0	20.27	0.106	20.46	0.111	20.35	0.108



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		39200		/	
Frequency (MHz)				/		2355		/	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	/	/	22.46	0.176	/	/
10	QPSK	1	25	/	/	22.38	0.173	/	/
10	QPSK	1	49	/	/	22.22	0.167	/	/
10	QPSK	25	0	/	/	21.45	0.140	/	/
10	QPSK	25	12	/	/	21.22	0.132	/	/
10	QPSK	25	25	/	/	21.33	0.136	/	/
10	QPSK	50	0	/	/	22.18	0.165	/	/
10	16QAM	1	0	/	/	21.51	0.142	/	/
10	16QAM	1	25	/	/	21.36	0.137	/	/
10	16QAM	1	49	/	/	21.45	0.140	/	/
10	16QAM	25	0	/	/	20.34	0.108	/	/
10	16QAM	25	12	/	/	20.36	0.109	/	/
10	16QAM	25	25	/	/	20.26	0.106	/	/
10	16QAM	50	0	/	/	20.24	0.106	/	/



LTE Band 40, Block B				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39175		39200		39225	
Frequency (MHz)				2352.5		2355		2357.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	22.44	0.175	22.45	0.176	22.35	0.172
5	QPSK	1	12	22.38	0.173	22.37	0.173	22.30	0.170
5	QPSK	1	24	22.26	0.168	22.31	0.170	22.40	0.174
5	QPSK	12	0	21.37	0.137	21.42	0.139	21.42	0.139
5	QPSK	12	7	21.43	0.139	21.40	0.138	21.39	0.138
5	QPSK	12	13	21.42	0.139	21.36	0.137	21.46	0.140
5	QPSK	25	0	21.33	0.136	21.40	0.138	21.38	0.137
5	16QAM	1	0	21.55	0.143	21.49	0.141	21.47	0.140
5	16QAM	1	12	21.38	0.137	21.50	0.141	21.43	0.139
5	16QAM	1	24	21.62	0.145	21.60	0.145	21.63	0.146
5	16QAM	12	0	20.41	0.110	20.42	0.110	20.42	0.110
5	16QAM	12	7	20.58	0.114	20.47	0.111	20.49	0.112
5	16QAM	12	13	20.50	0.112	20.49	0.112	20.42	0.110
5	16QAM	25	0	20.39	0.109	20.35	0.108	20.40	0.110



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39750		40620		41490	
Frequency (MHz)				2506		2593		2680	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	22.83	0.192	22.76	0.189	22.85	0.193
20	QPSK	1	49	22.63	0.183	22.57	0.181	22.57	0.181
20	QPSK	1	99	22.55	0.180	22.57	0.181	22.52	0.179
20	QPSK	50	0	22.33	0.171	22.37	0.173	22.41	0.174
20	QPSK	50	24	22.22	0.167	22.28	0.169	22.28	0.169
20	QPSK	50	50	22.18	0.165	22.16	0.164	22.16	0.164
20	QPSK	100	0	22.21	0.166	22.04	0.160	22.04	0.160
20	16QAM	1	0	21.47	0.140	21.56	0.143	21.56	0.143
20	16QAM	1	49	21.40	0.138	21.58	0.144	21.58	0.144
20	16QAM	1	99	21.30	0.135	21.29	0.135	21.29	0.135
20	16QAM	50	0	20.35	0.108	20.39	0.109	20.39	0.109
20	16QAM	50	24	20.27	0.106	20.31	0.107	20.31	0.107
20	16QAM	50	50	20.31	0.107	20.27	0.106	20.27	0.106
20	16QAM	100	0	20.35	0.108	20.34	0.108	20.34	0.108



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39725		40620		41515	
Frequency (MHz)				2503.5		2593		2682.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	22.72	0.187	22.65	0.184	22.74	0.188
15	QPSK	1	37	22.52	0.179	22.46	0.176	22.46	0.176
15	QPSK	1	74	22.44	0.175	22.41	0.174	22.41	0.174
15	QPSK	36	0	22.32	0.171	22.26	0.168	22.36	0.172
15	QPSK	36	20	22.11	0.163	22.17	0.165	22.17	0.165
15	QPSK	36	39	22.07	0.161	22.05	0.160	22.05	0.160
15	QPSK	75	0	21.93	0.156	21.93	0.156	22.10	0.162
15	16QAM	1	0	21.36	0.137	21.45	0.140	21.45	0.140
15	16QAM	1	37	21.29	0.135	21.47	0.140	21.47	0.140
15	16QAM	1	74	21.19	0.132	21.18	0.131	21.18	0.131
15	16QAM	36	0	20.24	0.106	20.28	0.107	20.28	0.107
15	16QAM	36	20	20.16	0.104	20.20	0.105	20.20	0.105
15	16QAM	36	39	20.20	0.105	20.16	0.104	20.16	0.104
15	16QAM	75	0	20.24	0.106	20.23	0.105	20.23	0.105



LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39700		40620		41540	
Frequency (MHz)				2501		2593		2685	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	22.60	0.182	22.53	0.179	22.62	0.183
10	QPSK	1	25	22.40	0.174	22.34	0.171	22.34	0.171
10	QPSK	1	49	22.32	0.171	22.29	0.169	22.29	0.169
10	QPSK	25	0	22.20	0.166	22.14	0.164	22.24	0.167
10	QPSK	25	12	21.99	0.158	22.05	0.160	22.05	0.160
10	QPSK	25	25	21.95	0.157	21.93	0.156	21.93	0.156
10	QPSK	50	0	21.81	0.152	21.81	0.152	21.98	0.158
10	16QAM	1	0	21.24	0.133	21.33	0.136	21.33	0.136
10	16QAM	1	25	21.17	0.131	21.35	0.136	21.35	0.136
10	16QAM	1	49	21.07	0.128	21.06	0.128	21.06	0.128
10	16QAM	25	0	20.12	0.103	20.16	0.104	20.16	0.104
10	16QAM	25	12	20.04	0.101	20.08	0.102	20.08	0.102
10	16QAM	25	25	20.08	0.102	20.04	0.101	20.04	0.101
10	16QAM	50	0	20.12	0.103	20.11	0.103	20.11	0.103



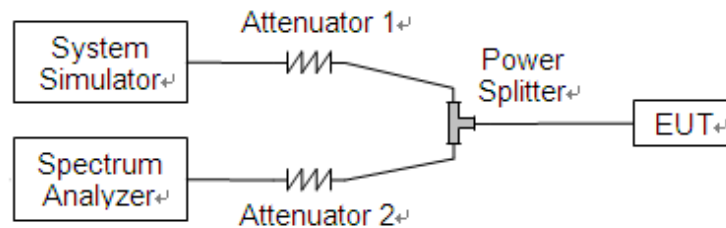
LTE Band 41				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				39675		40620		41565	
Frequency (MHz)				2498.5		2593		2687.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	22.51	0.178	22.44	0.175	22.53	0.179
5	QPSK	1	12	22.31	0.170	22.25	0.168	22.25	0.168
5	QPSK	1	24	22.23	0.167	22.20	0.166	22.20	0.166
5	QPSK	12	0	22.11	0.163	22.05	0.160	22.15	0.164
5	QPSK	12	7	21.90	0.155	21.96	0.157	21.96	0.157
5	QPSK	12	13	21.86	0.153	21.84	0.153	21.84	0.153
5	QPSK	25	0	21.72	0.149	21.72	0.149	21.89	0.155
5	16QAM	1	0	21.15	0.130	21.24	0.133	21.24	0.133
5	16QAM	1	12	21.08	0.128	21.26	0.134	21.26	0.134
5	16QAM	1	24	20.98	0.125	20.97	0.125	20.97	0.125
5	16QAM	12	0	20.03	0.101	20.07	0.102	20.07	0.102
5	16QAM	12	7	19.95	0.099	19.99	0.100	19.99	0.100
5	16QAM	12	13	19.99	0.100	19.95	0.099	19.95	0.099
5	16QAM	25	0	20.03	0.101	20.02	0.100	20.02	0.100

## 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	1.27
	Low	16QAM	1.10	1.28
	Mid	QPSK	1.09	1.28
	Mid	16QAM	1.10	1.28
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.30
3	Low	QPSK	2.69	2.91
	Low	16QAM	2.69	2.93
	Mid	QPSK	2.69	2.91
	Mid	16QAM	2.69	2.94
	High	QPSK	2.69	2.92
	High	16QAM	2.69	2.92
5	Low	QPSK	4.49	4.90
	Low	16QAM	4.50	4.88
	Mid	QPSK	4.49	4.90
	Mid	16QAM	4.51	4.89
	High	QPSK	4.49	4.92
	High	16QAM	4.50	4.91
10	Low	QPSK	8.97	9.73
	Low	16QAM	8.95	9.68
	Mid	QPSK	8.99	9.76
	Mid	16QAM	8.96	9.70
	High	QPSK	8.95	9.62
	High	16QAM	8.94	9.69
15	Low	QPSK	13.44	14.55
	Low	16QAM	13.43	14.57
	Mid	QPSK	13.49	14.64
	Mid	16QAM	13.47	14.57
	High	QPSK	13.43	14.50
	High	16QAM	13.43	14.57
20	Low	QPSK	17.92	19.29
	Low	16QAM	17.94	19.29
	Mid	QPSK	17.94	19.38
	Mid	16QAM	17.95	19.42
	High	QPSK	17.88	19.26
	High	16QAM	17.91	19.34



LTE Band 4				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.27
	Low	16QAM	1.10	1.29
	Mid	QPSK	1.09	1.27
	Mid	16QAM	1.10	1.29
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.3
3	Low	QPSK	2.69	2.92
	Low	16QAM	2.69	2.93
	Mid	QPSK	2.69	2.91
	Mid	16QAM	2.69	2.93
	High	QPSK	2.69	2.92
	High	16QAM	2.69	2.92
5	Low	QPSK	4.50	4.90
	Low	16QAM	4.50	4.88
	Mid	QPSK	4.49	4.92
	Mid	16QAM	4.50	4.94
	High	QPSK	4.49	4.90
	High	16QAM	4.49	4.87
10	Low	QPSK	8.99	9.69
	Low	16QAM	8.95	9.67
	Mid	QPSK	8.99	9.64
	Mid	16QAM	8.95	9.68
	High	QPSK	8.98	9.73
	High	16QAM	8.95	9.66
15	Low	QPSK	13.45	14.55
	Low	16QAM	13.46	14.61
	Mid	QPSK	13.47	14.57
	Mid	16QAM	13.43	14.5
	High	QPSK	13.45	14.59
	High	16QAM	13.45	14.58
20	Low	QPSK	17.94	19.36
	Low	16QAM	17.96	19.27
	Mid	QPSK	17.92	19.36
	Mid	16QAM	17.95	19.40
	High	QPSK	17.96	19.40
	High	16QAM	17.95	19.33



LTE Band 5				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.25
	Low	16QAM	1.10	1.28
	Mid	QPSK	1.09	1.28
	Mid	16QAM	1.10	1.28
	High	QPSK	1.10	1.27
	High	16QAM	1.10	1.28
3	Low	QPSK	2.69	2.97
	Low	16QAM	2.69	3.14
	Mid	QPSK	2.69	2.91
	Mid	16QAM	2.69	2.92
	High	QPSK	2.69	2.91
	High	16QAM	2.69	2.93
5	Low	QPSK	4.50	4.94
	Low	16QAM	4.50	4.91
	Mid	QPSK	4.50	4.95
	Mid	16QAM	4.51	5.34
	High	QPSK	4.50	4.93
	High	16QAM	4.50	4.92
10	Low	QPSK	9.01	9.70
	Low	16QAM	8.96	9.71
	Mid	QPSK	9.01	9.75
	Mid	16QAM	8.98	9.70
	High	QPSK	9.01	9.8
	High	16QAM	8.96	9.71



LTE Band 7				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.93
	Low	16QAM	4.49	4.91
	Mid	QPSK	4.49	4.92
	Mid	16QAM	4.50	4.92
	High	QPSK	4.50	4.91
	High	16QAM	4.50	4.90
10	Low	QPSK	9.00	9.72
	Low	16QAM	8.97	9.63
	Mid	QPSK	8.99	9.75
	Mid	16QAM	8.96	9.67
	High	QPSK	9.00	9.71
	High	16QAM	8.96	9.67
15	Low	QPSK	13.47	14.58
	Low	16QAM	13.46	14.57
	Mid	QPSK	13.48	14.61
	Mid	16QAM	13.48	14.63
	High	QPSK	13.45	14.51
	High	16QAM	13.45	14.65
20	Low	QPSK	17.90	19.36
	Low	16QAM	17.95	19.38
	Mid	QPSK	17.96	19.38
	Mid	16QAM	17.99	19.33
	High	QPSK	17.90	19.33
	High	16QAM	17.97	19.26



LTE Band 12				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.28
	Low	16QAM	1.10	1.29
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.29
	High	QPSK	1.09	1.29
	High	16QAM	1.10	1.29
3	Low	QPSK	2.69	2.92
	Low	16QAM	2.69	2.93
	Mid	QPSK	2.70	2.91
	Mid	16QAM	2.70	2.93
	High	QPSK	2.69	2.91
	High	16QAM	2.69	2.92
5	Low	QPSK	4.51	5.20
	Low	16QAM	4.51	5.12
	Mid	QPSK	4.53	5.16
	Mid	16QAM	4.53	4.88
	High	QPSK	4.50	5.14
	High	16QAM	4.51	5.10
10	Low	QPSK	9.03	10.12
	Low	16QAM	8.98	10.03
	Mid	QPSK	9.01	10.06
	Mid	16QAM	9.00	10.02
	High	QPSK	8.99	10.04
	High	16QAM	8.95	9.90



LTE Band 17				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.53	5.71
	Low	16QAM	4.53	5.80
	Mid	QPSK	4.51	5.15
	Mid	16QAM	4.51	5.13
	High	QPSK	4.52	5.14
	High	16QAM	4.51	5.15
10	Low	QPSK	9.05	10.34
	Low	16QAM	8.99	10.50
	Mid	QPSK	9.01	10.78
	Mid	16QAM	8.97	10.80
	High	QPSK	9.01	10.50
	High	16QAM	8.97	10.05



LTE Band 38				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	4.90
	Low	16QAM	4.50	4.98
	Mid	QPSK	4.49	4.93
	Mid	16QAM	4.50	4.74
	High	QPSK	4.49	4.92
	High	16QAM	4.50	5.05
10	Low	QPSK	8.97	10.13
	Low	16QAM	8.98	10.19
	Mid	QPSK	8.99	9.91
	Mid	16QAM	8.97	10.08
	High	QPSK	8.97	9.74
	High	16QAM	8.97	10.29
15	Low	QPSK	13.49	14.56
	Low	16QAM	13.46	14.53
	Mid	QPSK	13.50	14.52
	Mid	16QAM	13.49	14.76
	High	QPSK	13.48	14.49
	High	16QAM	13.48	15.56
20	Low	QPSK	17.95	19.46
	Low	16QAM	17.96	19.58
	Mid	QPSK	17.94	19.70
	Mid	16QAM	17.97	19.31
	High	QPSK	17.92	20.03
	High	16QAM	17.92	19.52



LTE Band 40, Block A				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	5.03
	Low	16QAM	4.53	5.27
	Mid	QPSK	4.51	5.24
	Mid	16QAM	4.51	5.22
	High	QPSK	4.52	5.14
	High	16QAM	4.52	5.05
10	Mid	QPSK	8.98	9.93
	Mid	16QAM	8.98	10.24

LTE Band 40, Block B				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	5.12
	Low	16QAM	4.52	5.11
	Mid	QPSK	4.50	5.08
	Mid	16QAM	4.51	5.15
	High	QPSK	4.51	5.34
	High	16QAM	4.51	5.44
10	Mid	QPSK	9.00	9.96
	Mid	16QAM	8.98	10.19

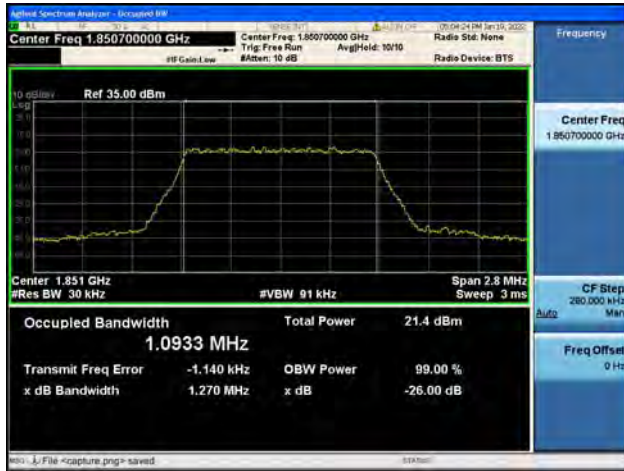




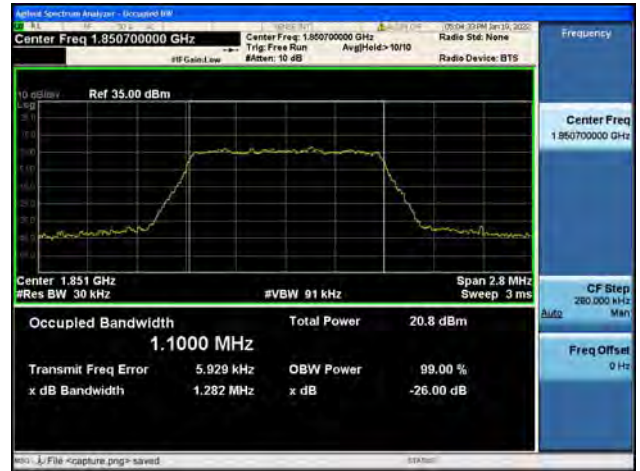
LTE Band 41				
BW(MHz)	Channel Level	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	5.04
	Low	16QAM	4.50	5.20
	Mid	QPSK	4.50	4.91
	Mid	16QAM	4.51	5.05
	High	QPSK	4.50	4.94
	High	16QAM	4.51	4.98
10	Low	QPSK	8.97	9.87
	Low	16QAM	8.98	10.20
	Mid	QPSK	8.99	10.12
	Mid	16QAM	8.98	10.64
	High	QPSK	8.99	9.87
	High	16QAM	8.99	10.10
15	Low	QPSK	13.45	14.52
	Low	16QAM	13.49	14.96
	Mid	QPSK	13.47	14.99
	Mid	16QAM	13.48	15.24
	High	QPSK	13.48	15.18
	High	16QAM	13.48	14.90
20	Low	QPSK	17.94	19.65
	Low	16QAM	17.94	19.28
	Mid	QPSK	17.94	20.54
	Mid	16QAM	17.95	19.10
	High	QPSK	17.94	19.29
	High	16QAM	17.98	19.69



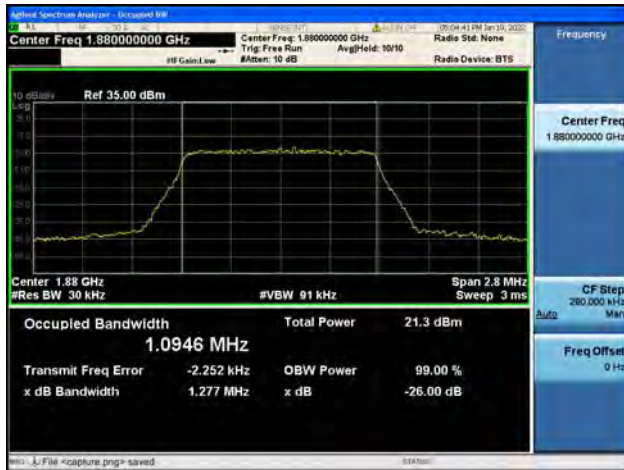
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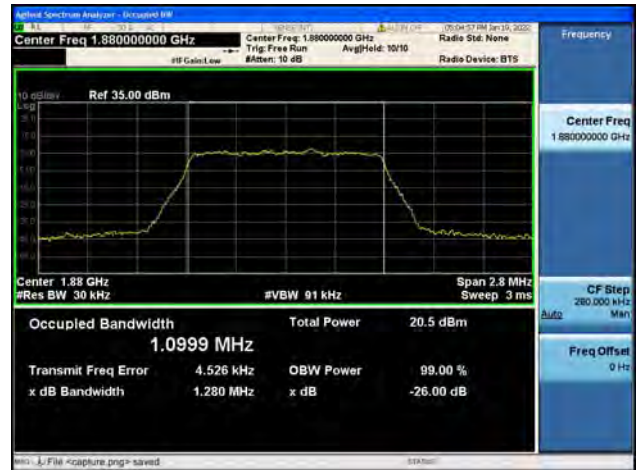
Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Mid CH / QPSK



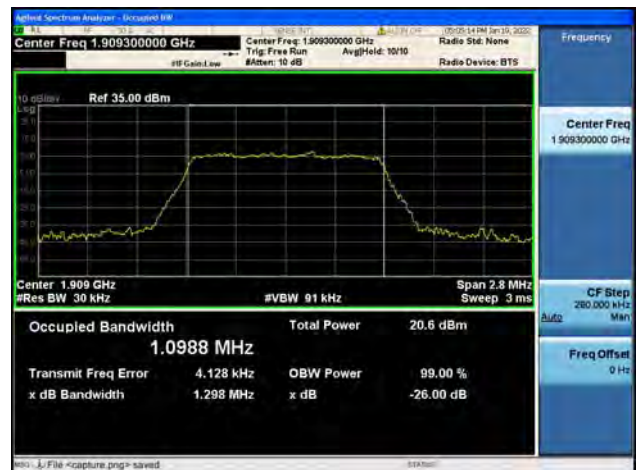
Band2 / 1.4MHz / Mid CH / 16QAM

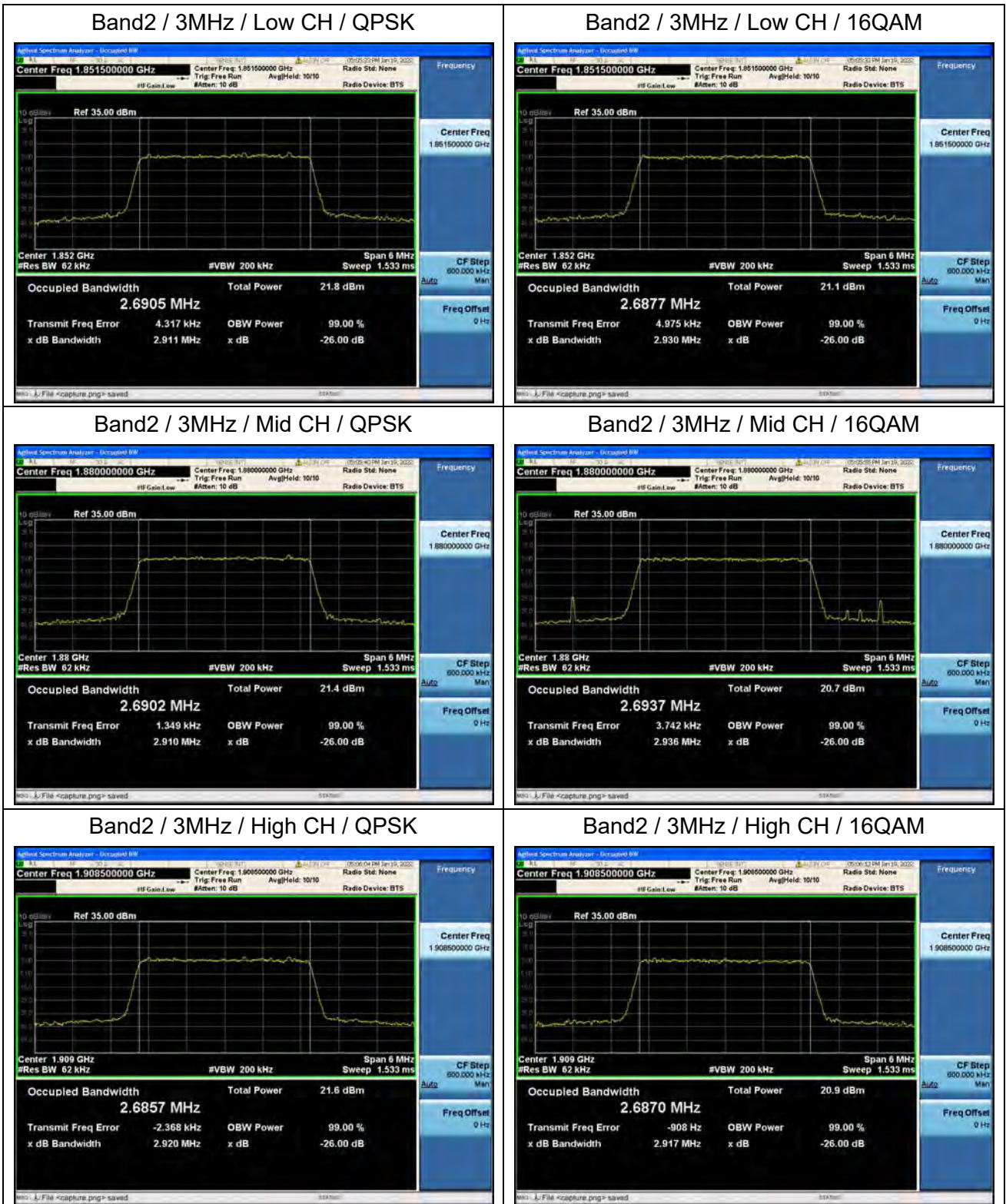


Band2 / 1.4MHz / High CH / QPSK



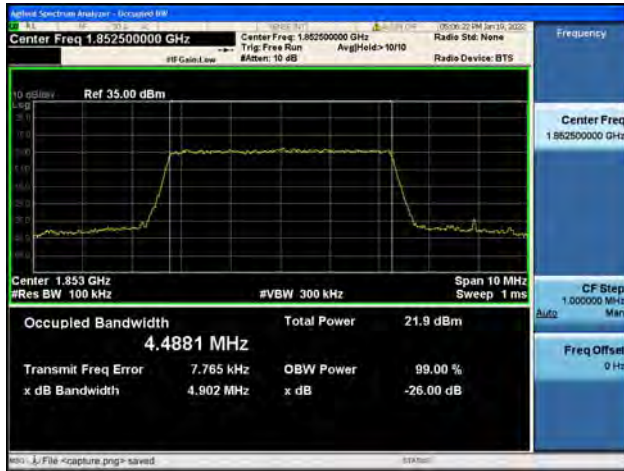
Band2 / 1.4MHz / High CH / 16QAM



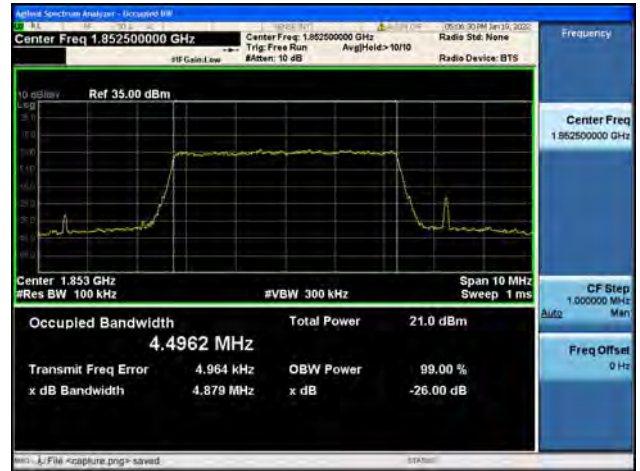




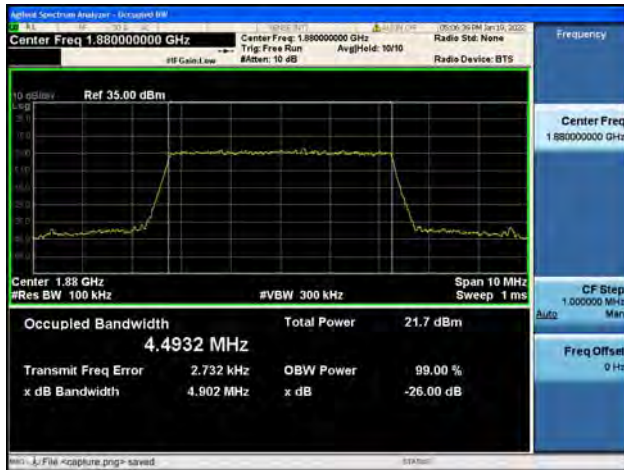
Band2 / 5MHz / Low CH / QPSK



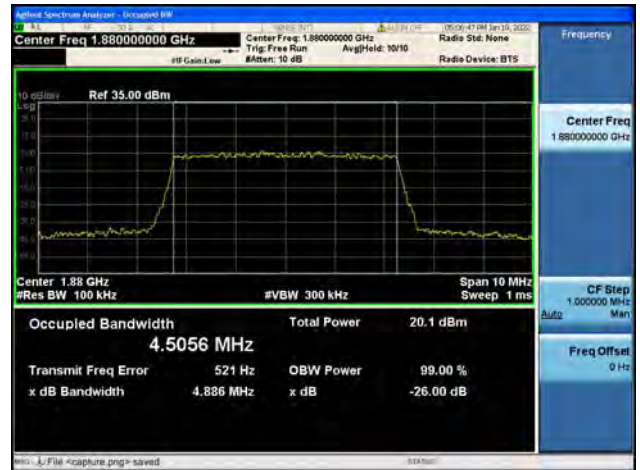
Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Mid CH / QPSK



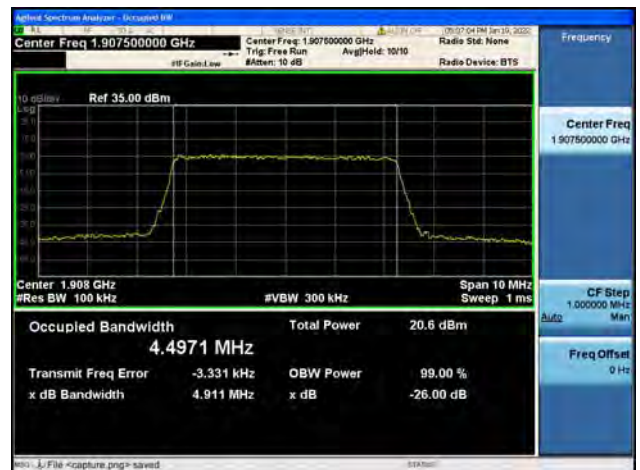
Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / High CH / QPSK

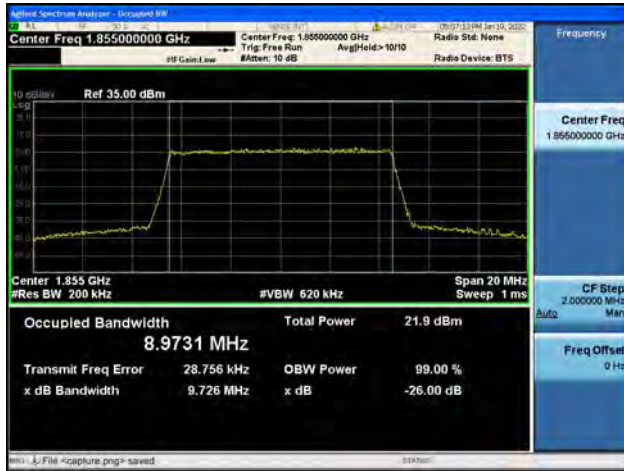


Band2 / 5MHz / High CH / 16QAM

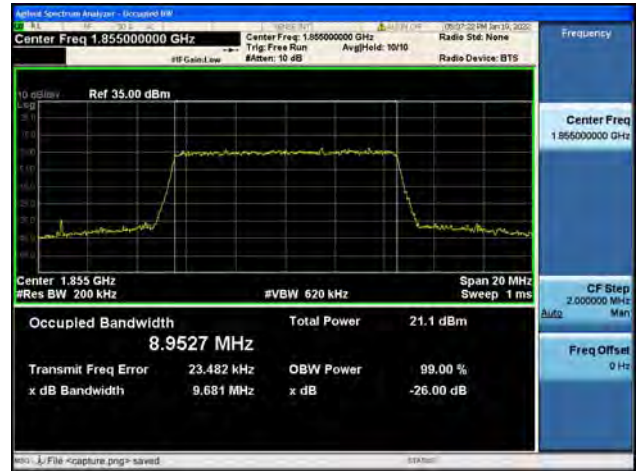




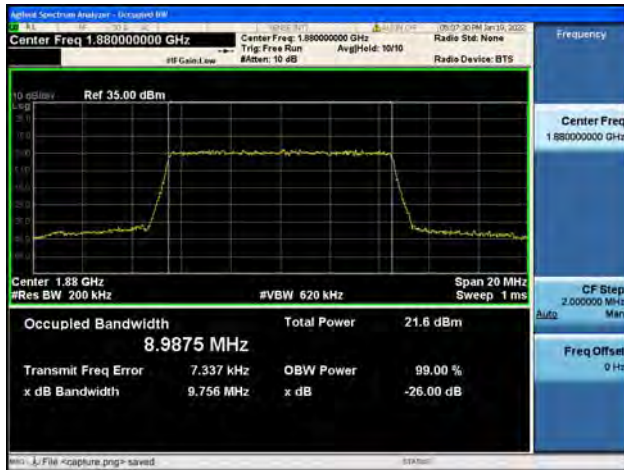
Band2 / 10MHz / Low CH / QPSK



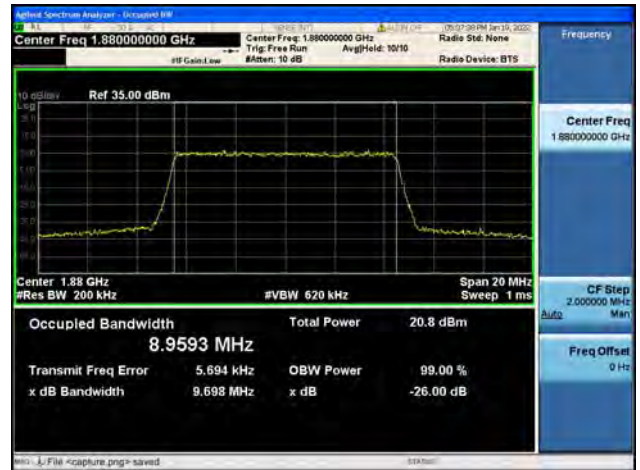
Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Mid CH / QPSK



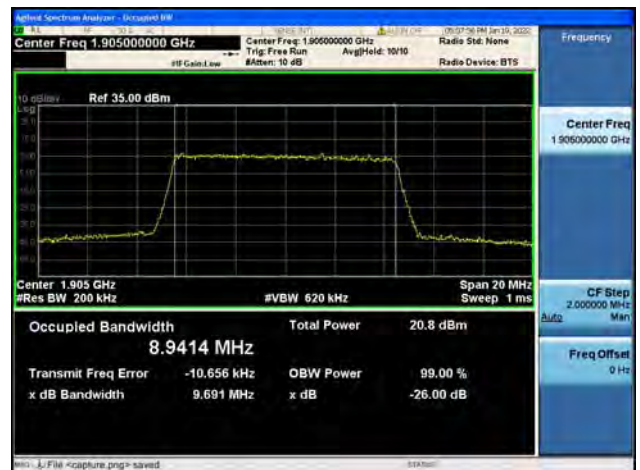
Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / High CH / QPSK

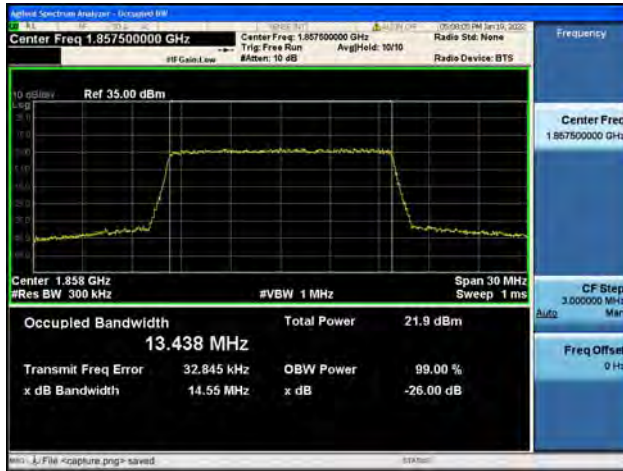


Band2 / 10MHz / High CH / 16QAM

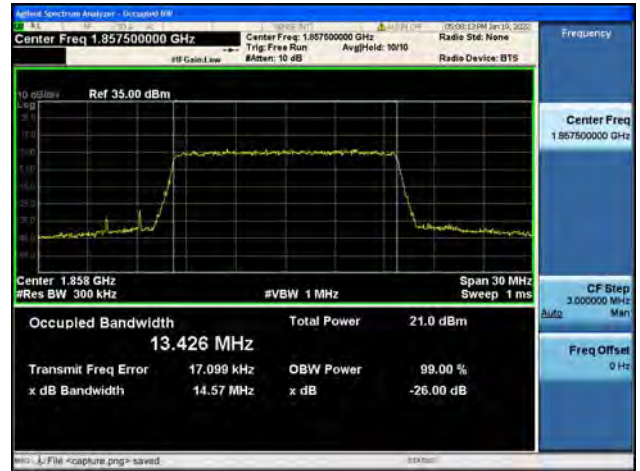




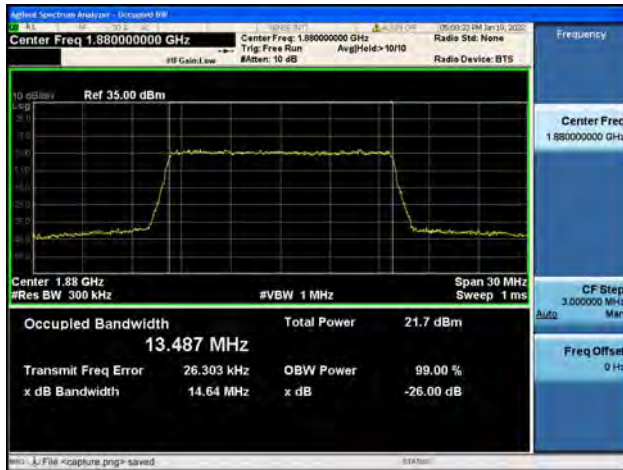
Band2 / 15MHz / Low CH / QPSK



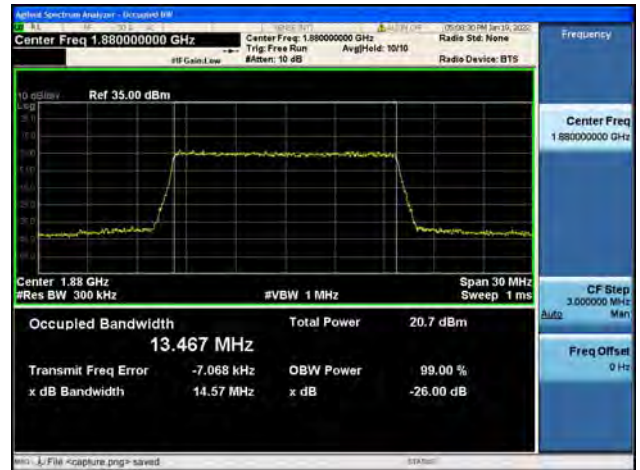
Band2 / 15MHz / Low CH / 16QAM



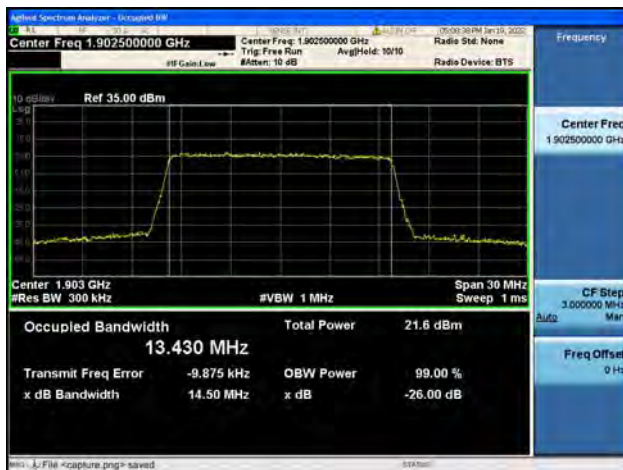
Band2 / 15MHz / Mid CH / QPSK



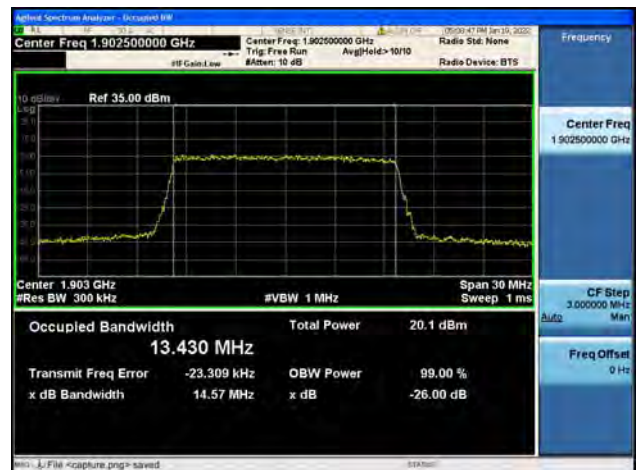
Band2 / 15MHz / Mid CH / 16QAM



Band2 / 15MHz / High CH / QPSK

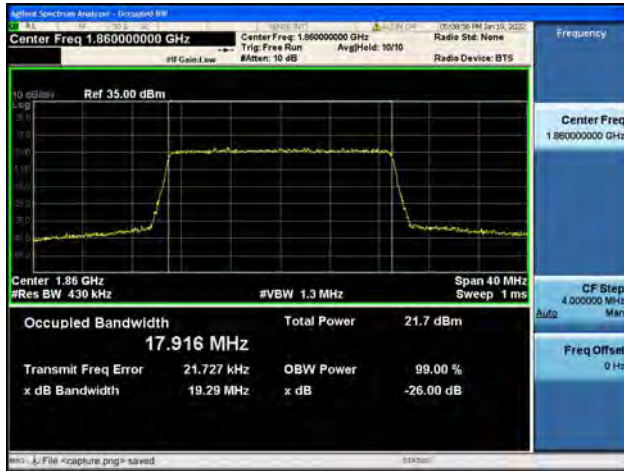


Band2 / 15MHz / High CH / 16QAM

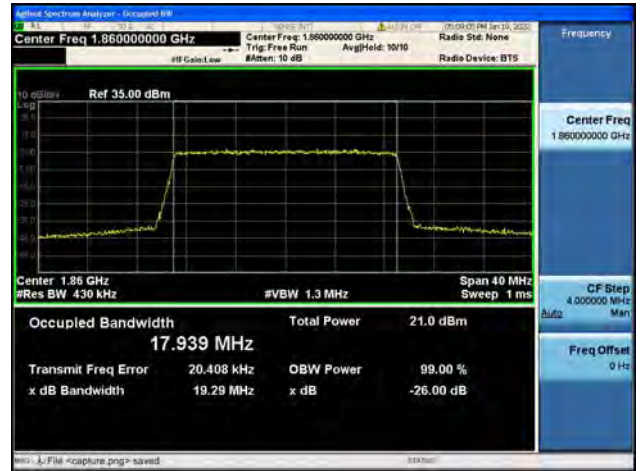




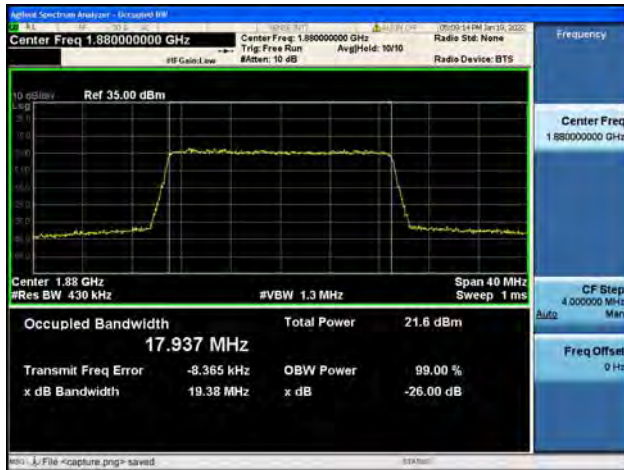
Band2 / 20MHz / Low CH / QPSK



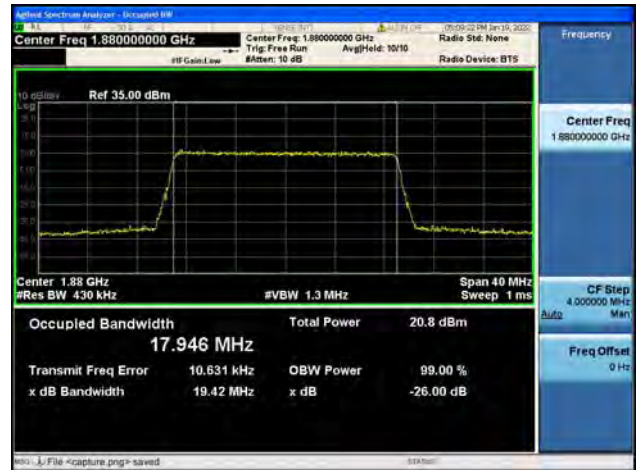
Band2 / 20MHz / Low CH / 16QAM



Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / High CH / QPSK

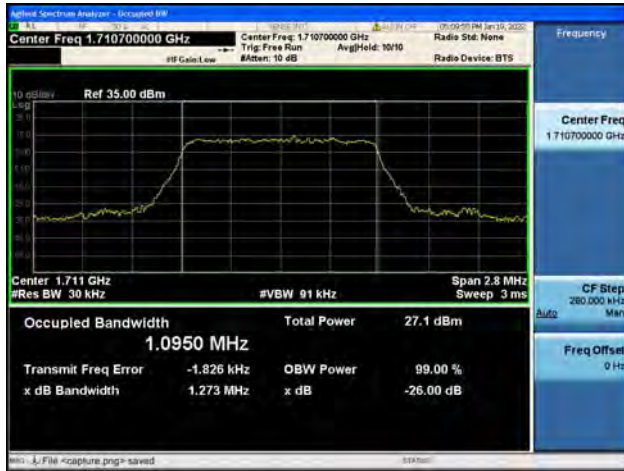


Band2 / 20MHz / High CH / 16QAM





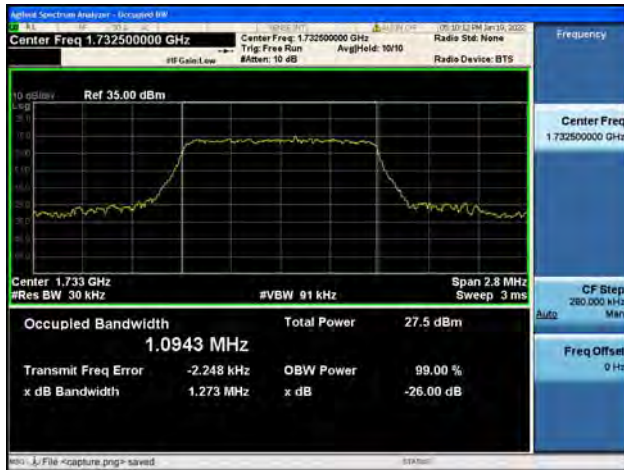
Band4 / 1.4MHz / Low CH / QPSK



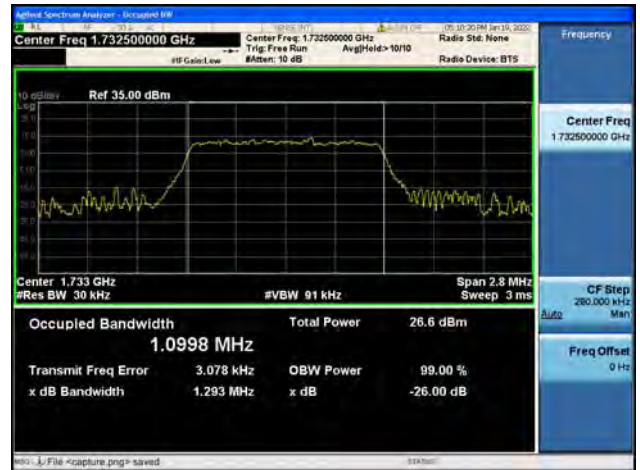
Band4 / 1.4MHz / Low CH / 16QAM



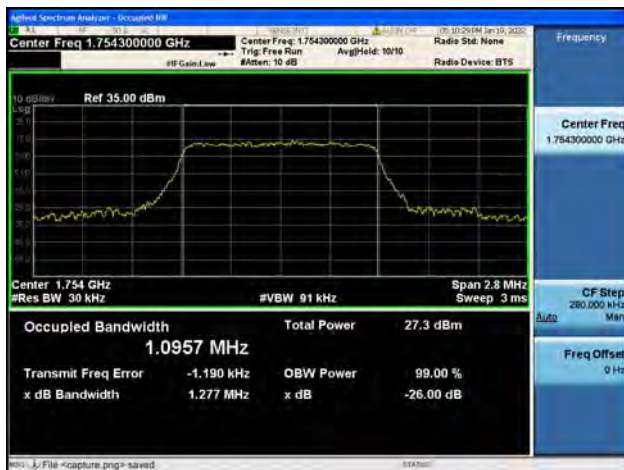
Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM



Band4 / 1.4MHz / High CH / QPSK



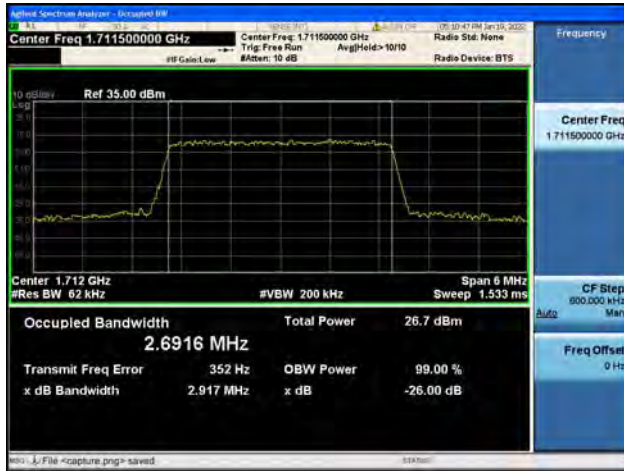
Band4 / 1.4MHz / High CH / 16QAM



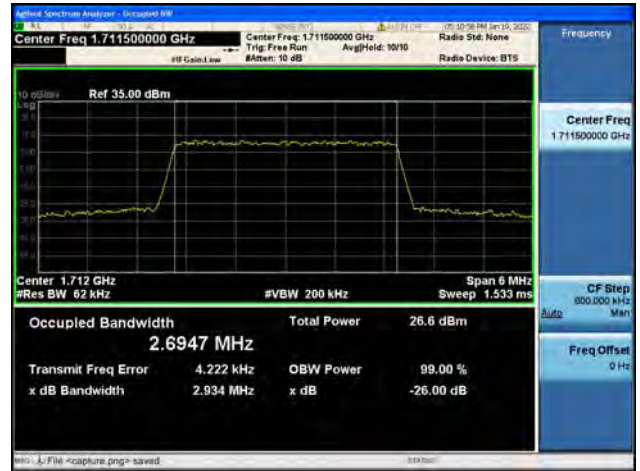




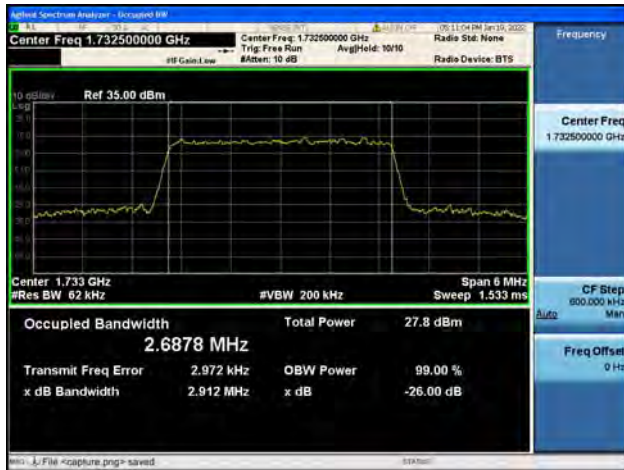
Band4 / 3MHz / Low CH / QPSK



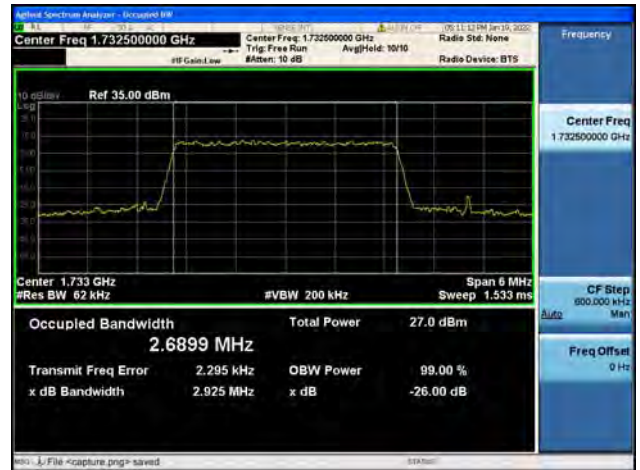
Band4 / 3MHz / Low CH / 16QAM



Band4 / 3MHz / Mid CH / QPSK



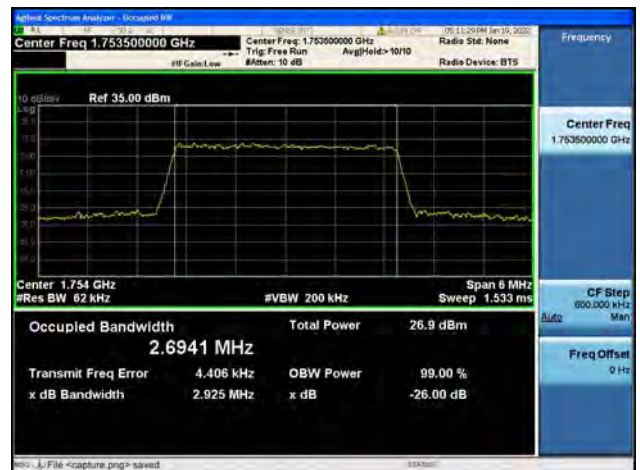
Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / High CH / QPSK

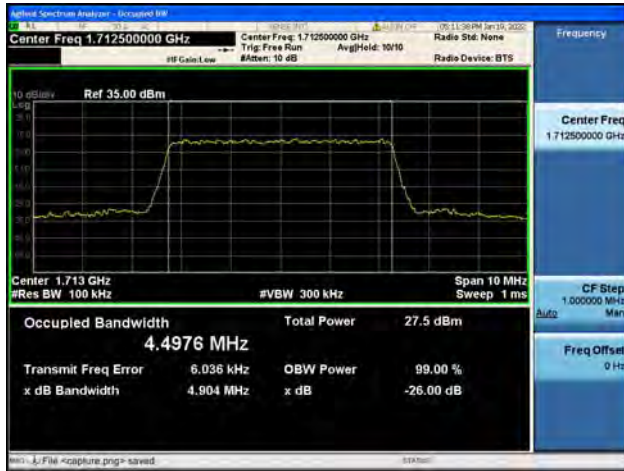


Band4 / 3MHz / High CH / 16QAM

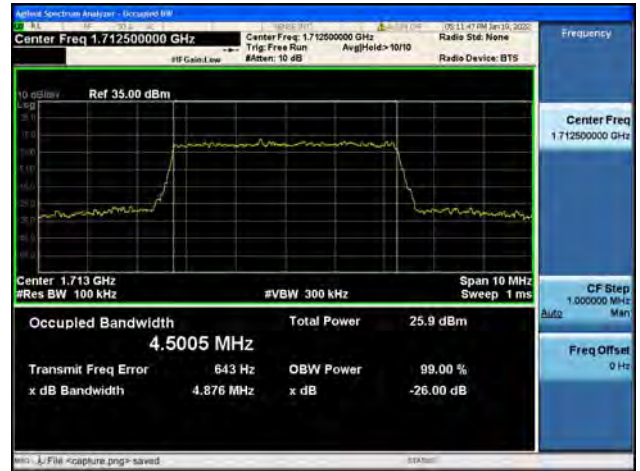




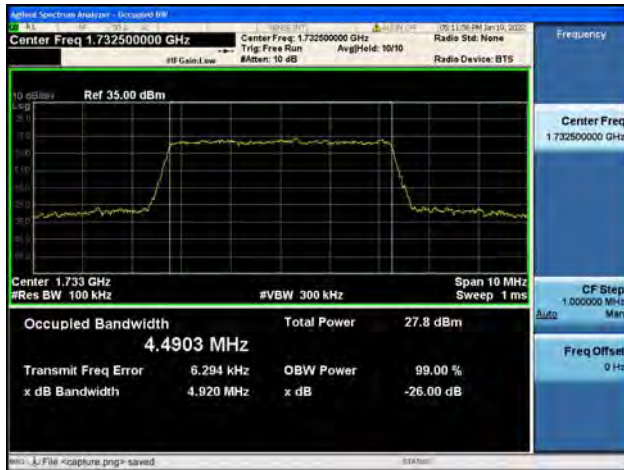
Band4 / 5MHz / Low CH / QPSK



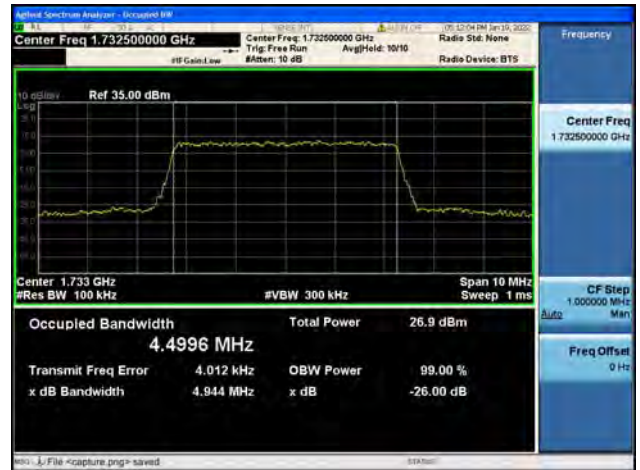
Band4 / 5MHz / Low CH / 16QAM



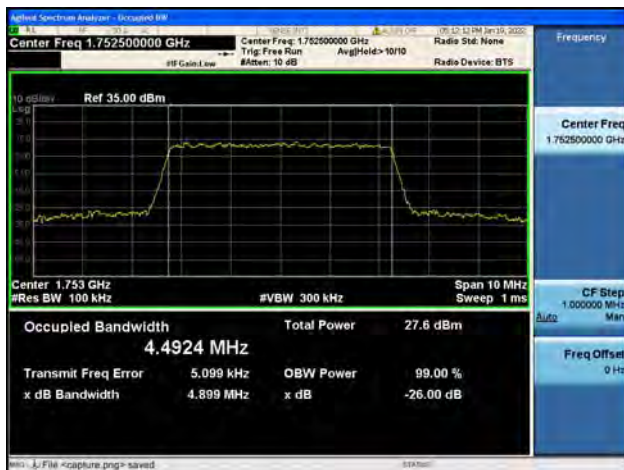
Band4 / 5MHz / Mid CH / QPSK



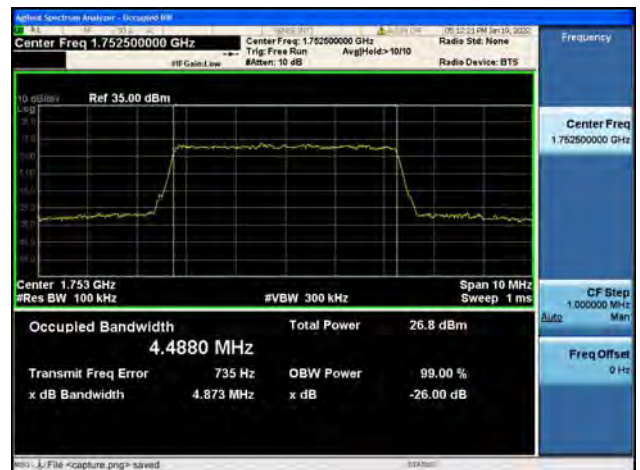
Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / High CH / QPSK

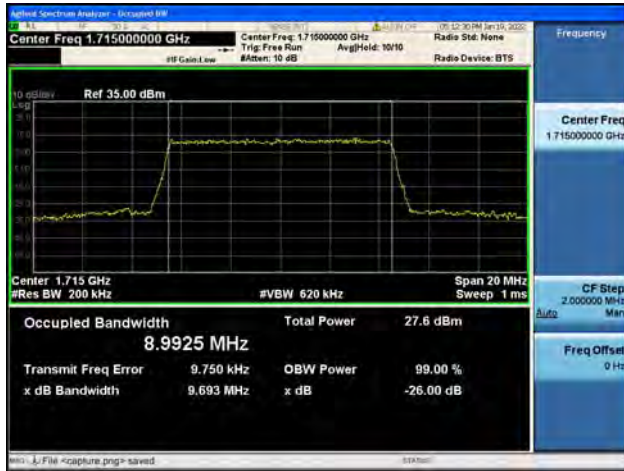


Band4 / 5MHz / High CH / 16QAM





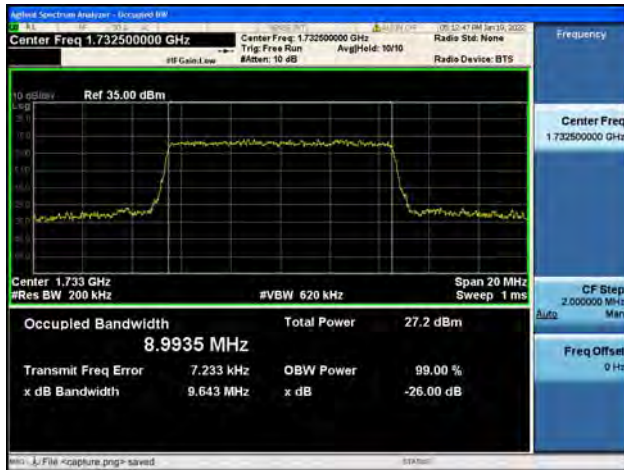
Band4 / 10MHz / Low CH / QPSK



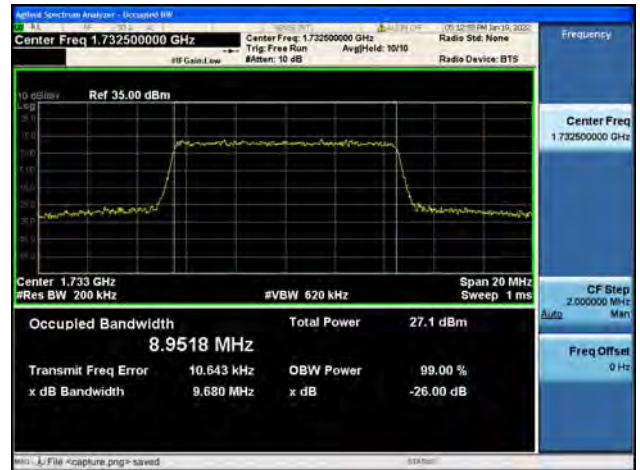
Band4 / 10MHz / Low CH / 16QAM



Band4 / 10MHz / Mid CH / QPSK



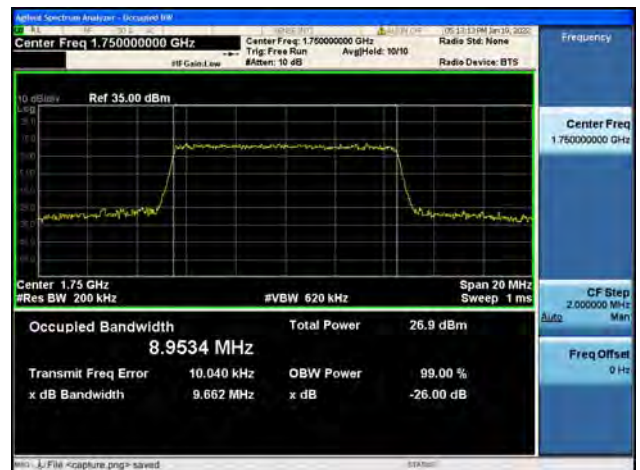
Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / High CH / QPSK

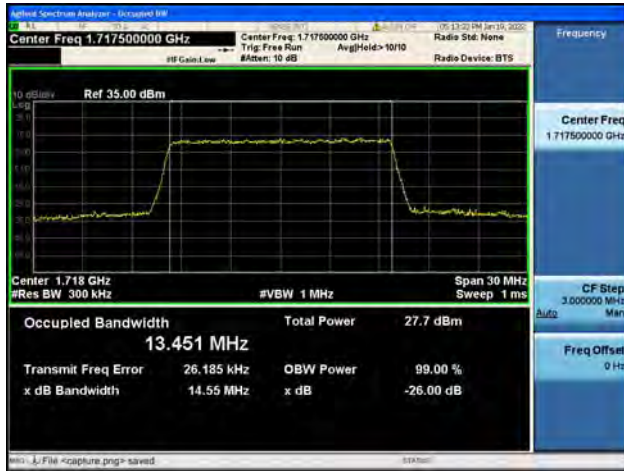


Band4 / 10MHz / High CH / 16QAM

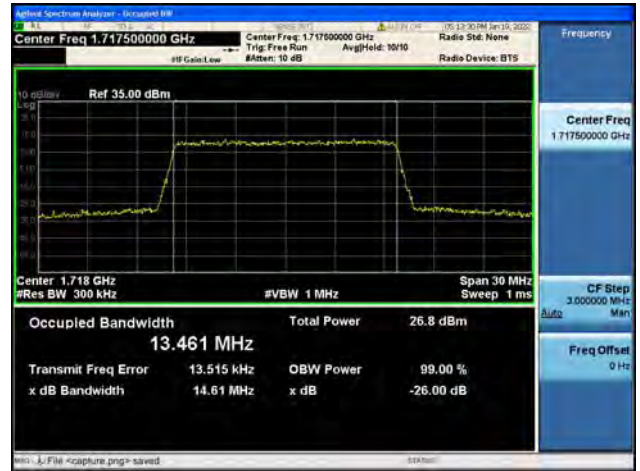




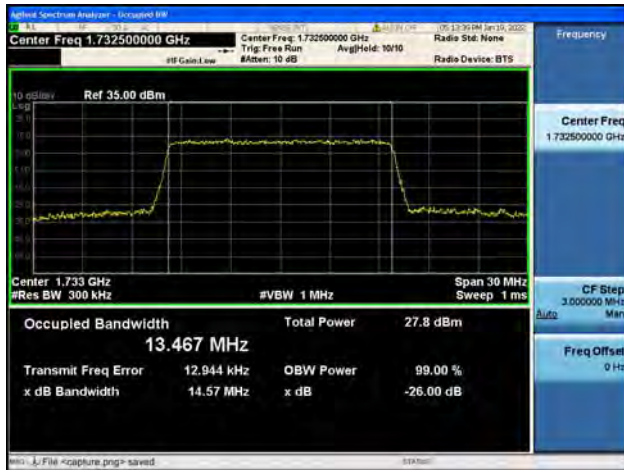
Band4 / 15MHz / Low CH / QPSK



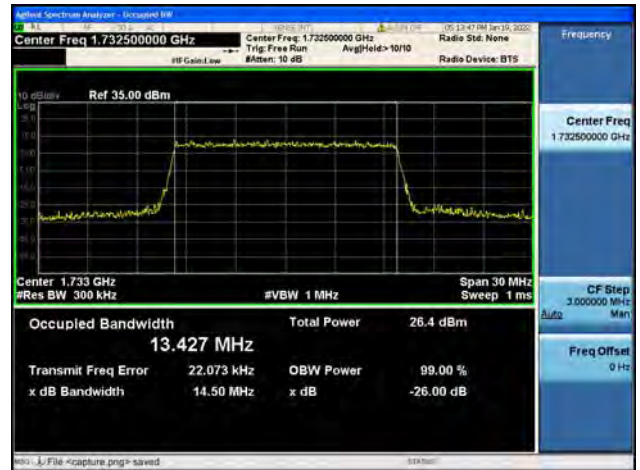
Band4 / 15MHz / Low CH / 16QAM



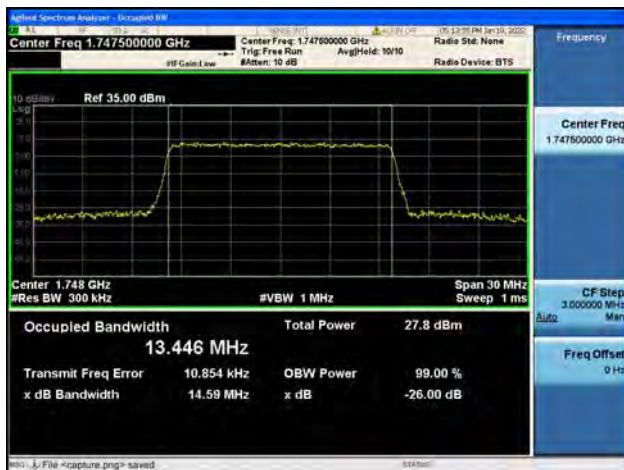
Band4 / 15MHz / Mid CH / QPSK



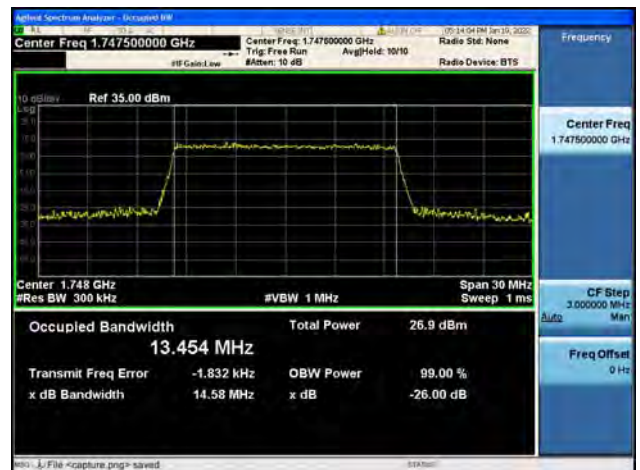
Band4 / 15MHz / Mid CH / 16QAM



Band4 / 15MHz / High CH / QPSK

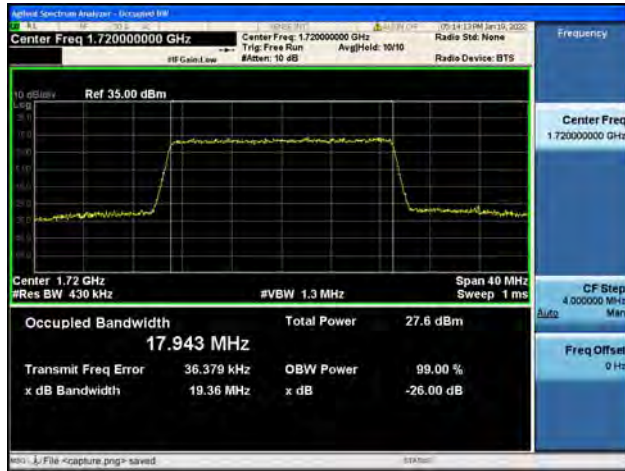


Band4 / 15MHz / High CH / 16QAM





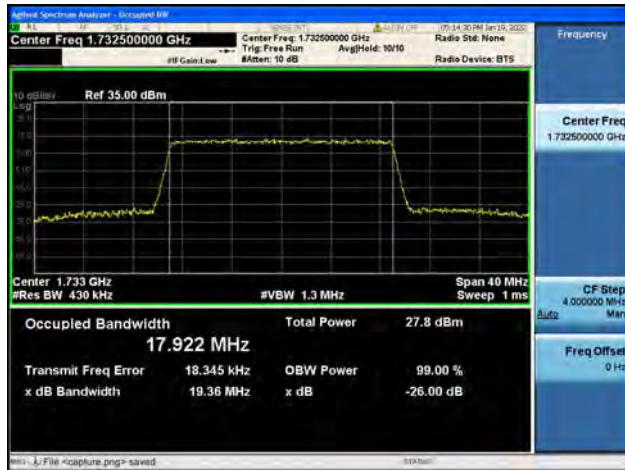
Band4 / 20MHz / Low CH / QPSK



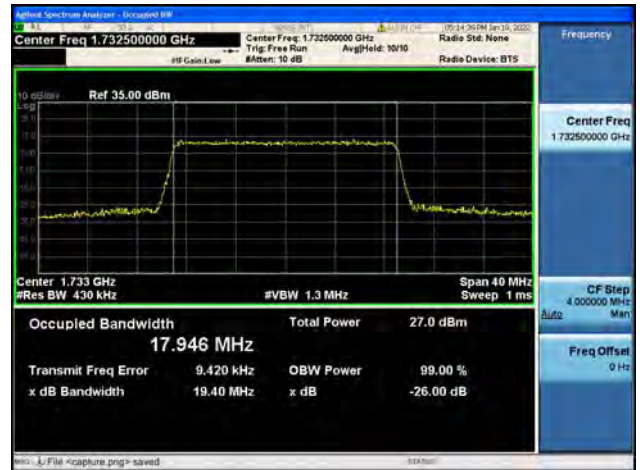
Band4 / 20MHz / Low CH / 16QAM



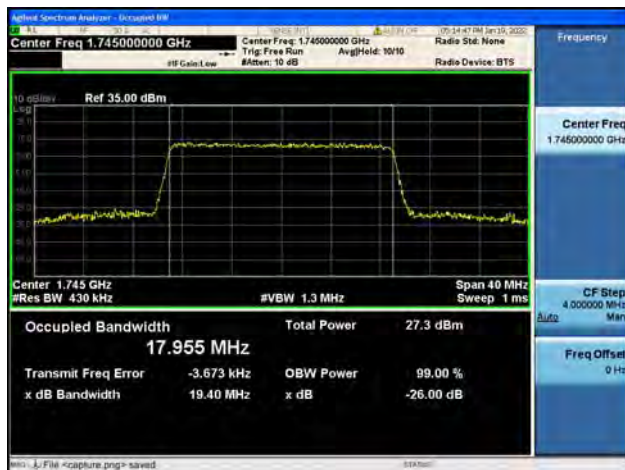
Band4 / 20MHz / Mid CH / QPSK



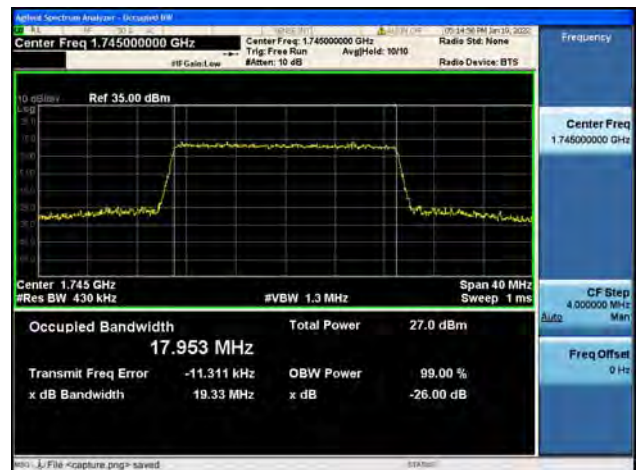
Band4 / 20MHz / Mid CH / 16QAM



Band4 / 20MHz / High CH / QPSK

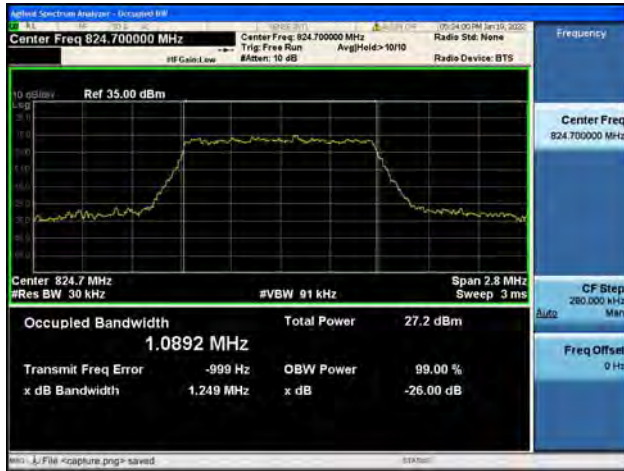


Band4 / 20MHz / High CH / 16QAM





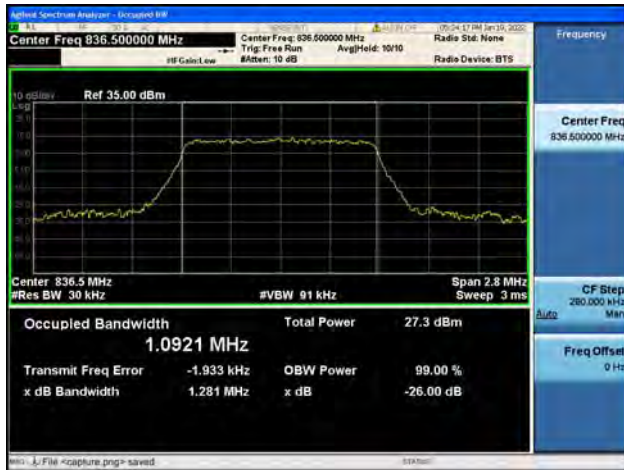
Band5 / 1.4MHz / Low CH / QPSK



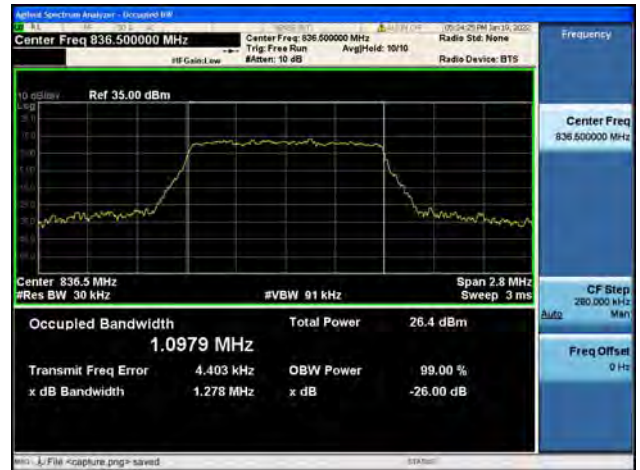
Band5 / 1.4MHz / Low CH / 16QAM



Band5 / 1.4MHz / Mid CH / QPSK



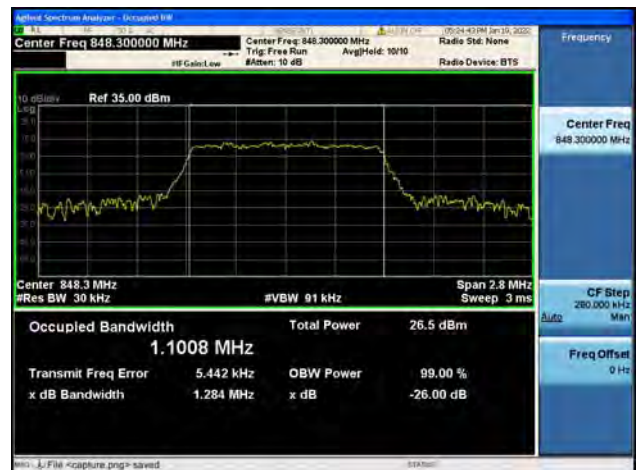
Band5 / 1.4MHz / Mid CH / 16QAM



Band5 / 1.4MHz / High CH / QPSK

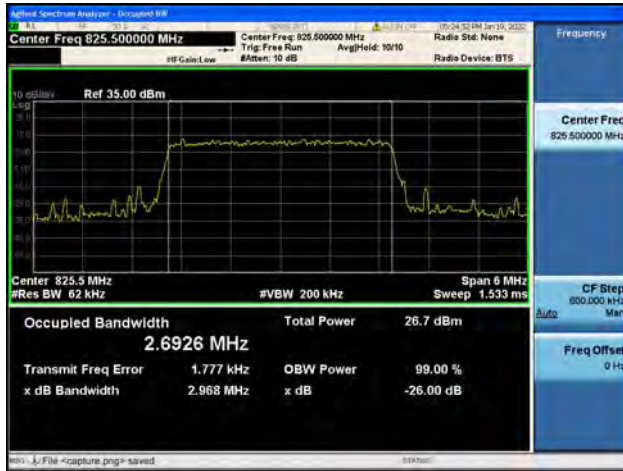


Band5 / 1.4MHz / High CH / 16QAM

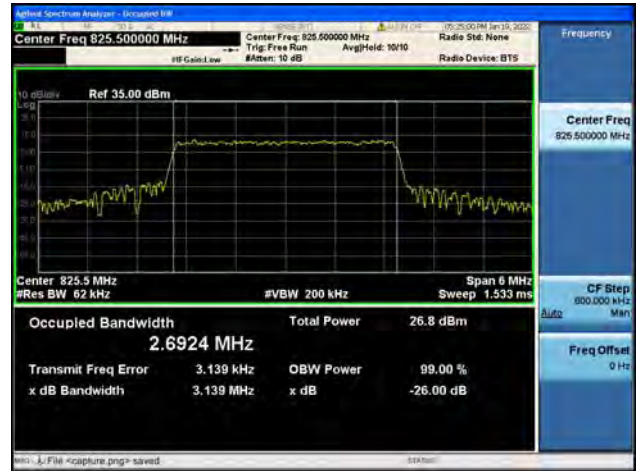




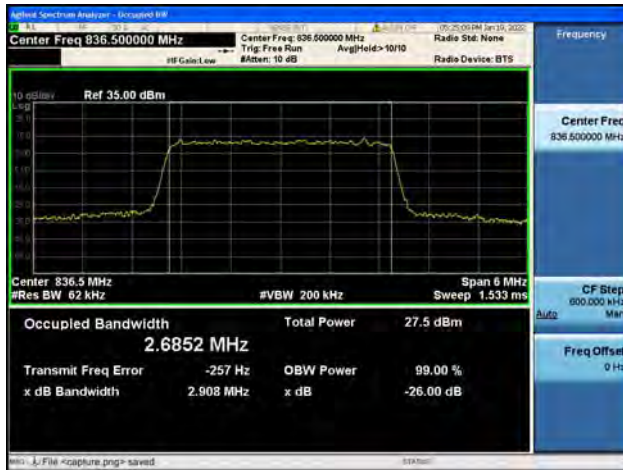
Band5 / 3MHz / Low CH / QPSK



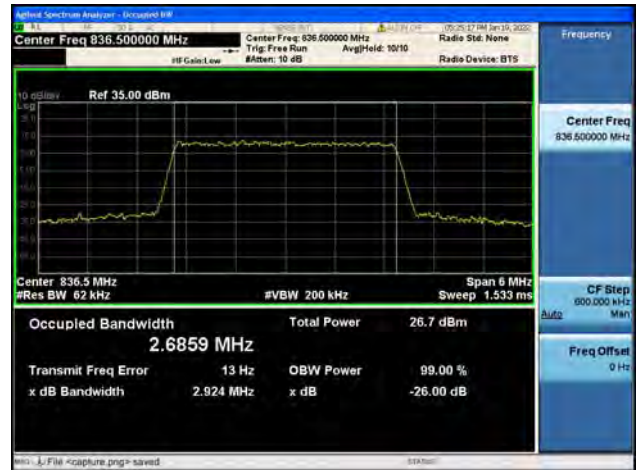
Band5 / 3MHz / Low CH / 16QAM



Band5 / 3MHz / Mid CH / QPSK



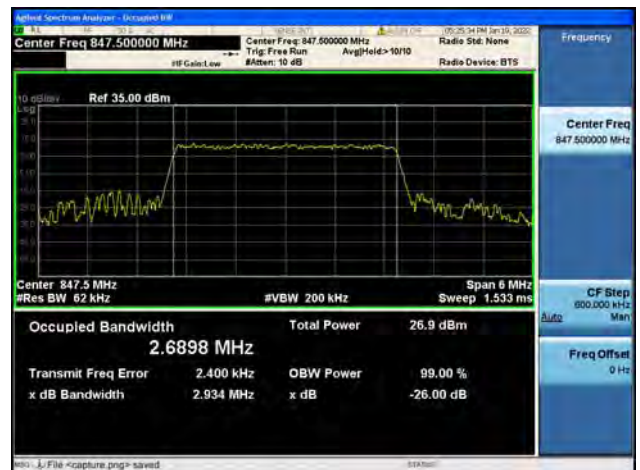
Band5 / 3MHz / Mid CH / 16QAM



Band5 / 3MHz / High CH / QPSK

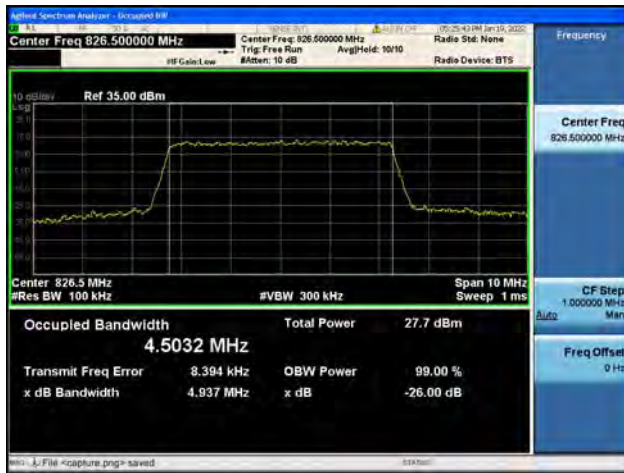


Band5 / 3MHz / High CH / 16QAM

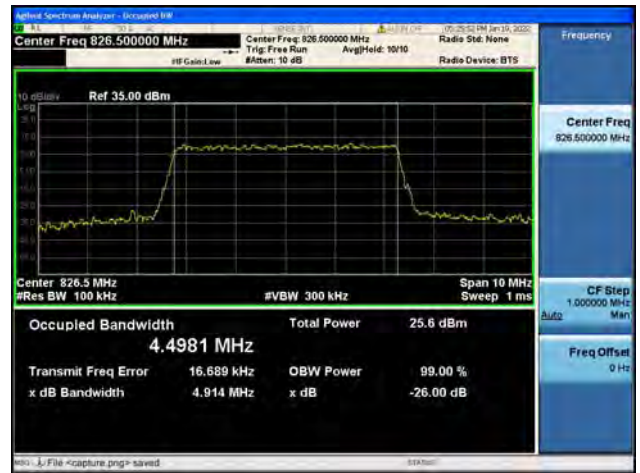




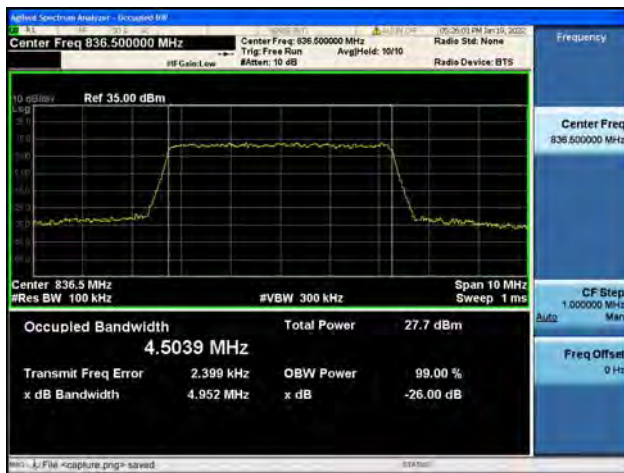
Band5 / 5MHz / Low CH / QPSK



Band5 / 5MHz / Low CH / 16QAM



Band5 / 5MHz / Mid CH / QPSK



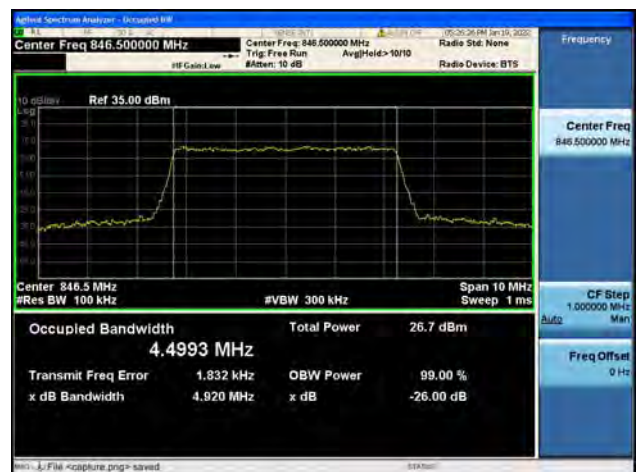
Band5 / 5MHz / Mid CH / 16QAM



Band5 / 5MHz / High CH / QPSK



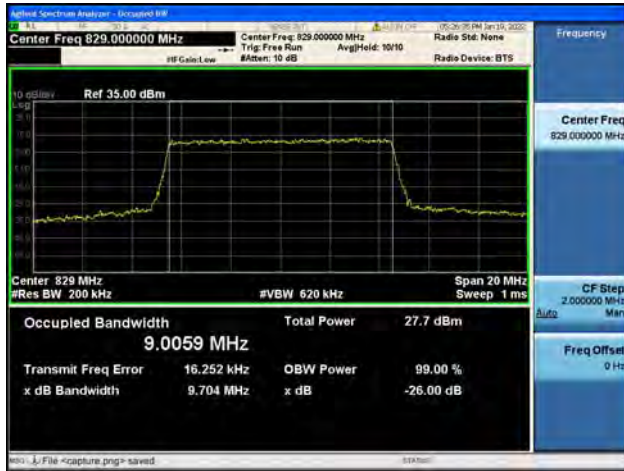
Band5 / 5MHz / High CH / 16QAM



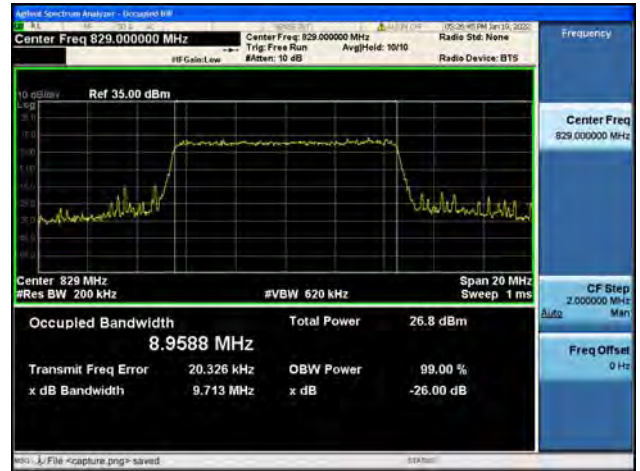




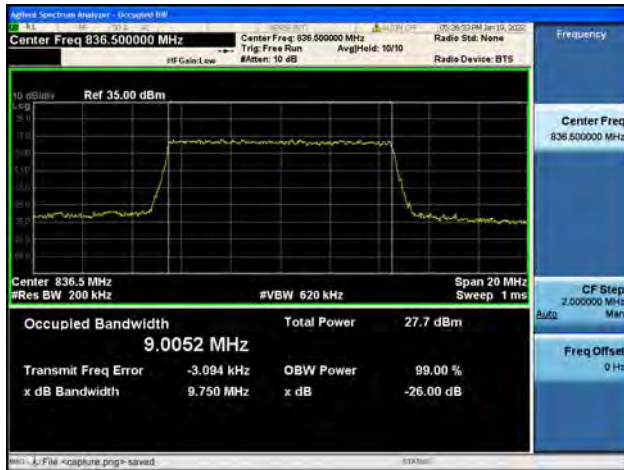
Band5 / 10MHz / Low CH / QPSK



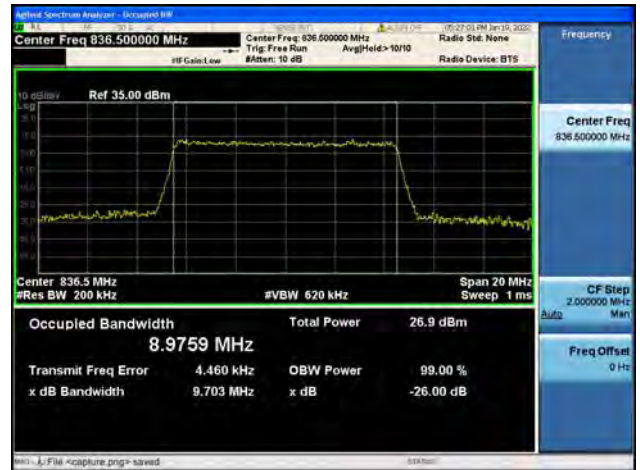
Band5 / 10MHz / Low CH / 16QAM



Band5 / 10MHz / Mid CH / QPSK



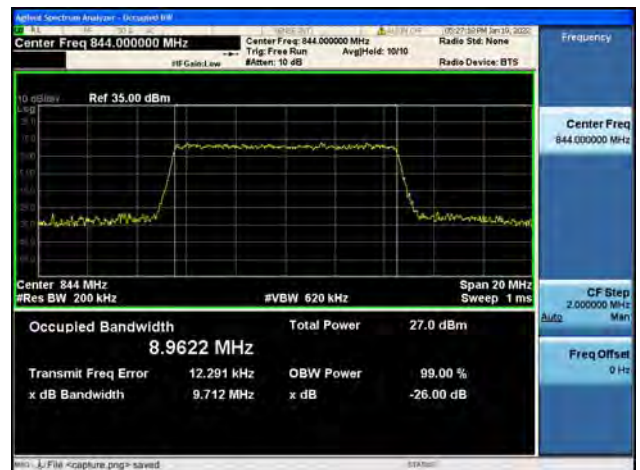
Band5 / 10MHz / Mid CH / 16QAM



Band5 / 10MHz / High CH / QPSK

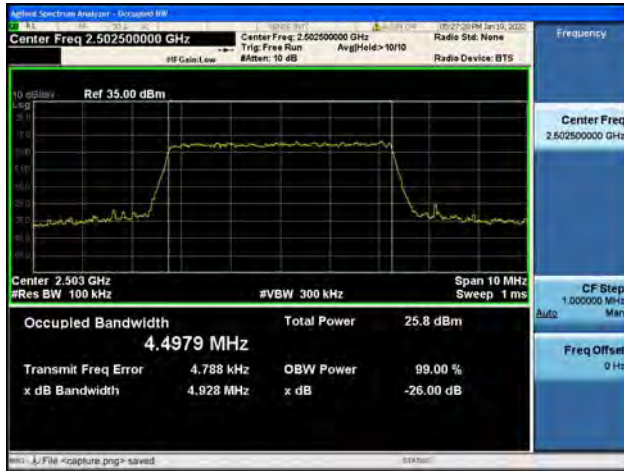


Band5 / 10MHz / High CH / 16QAM





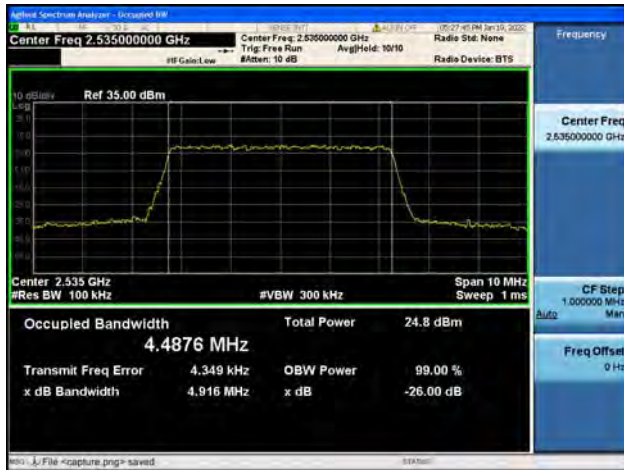
Band7 / 5MHz / Low CH / QPSK



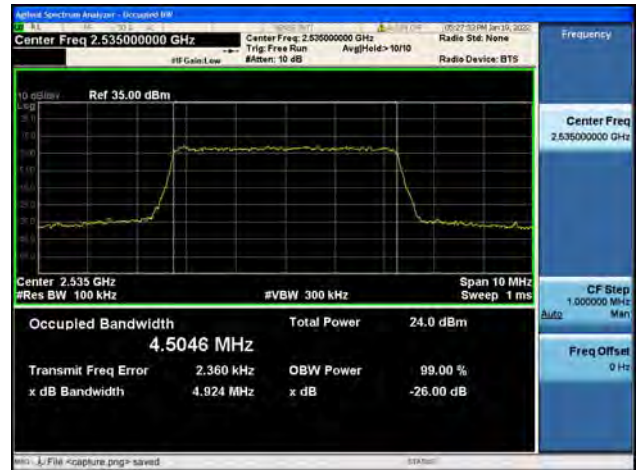
Band7 / 5MHz / Low CH / 16QAM



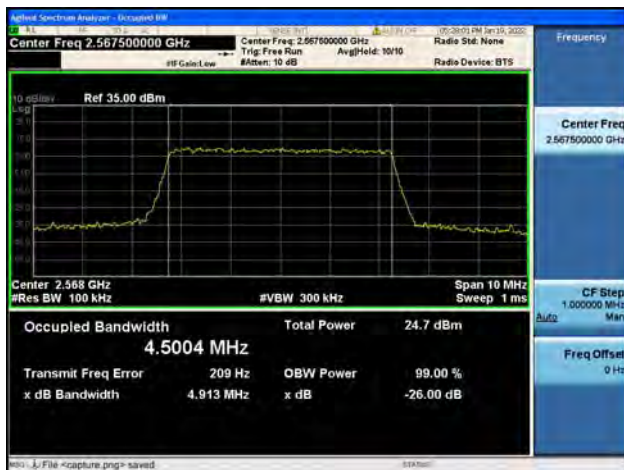
Band7 / 5MHz / Mid CH / QPSK



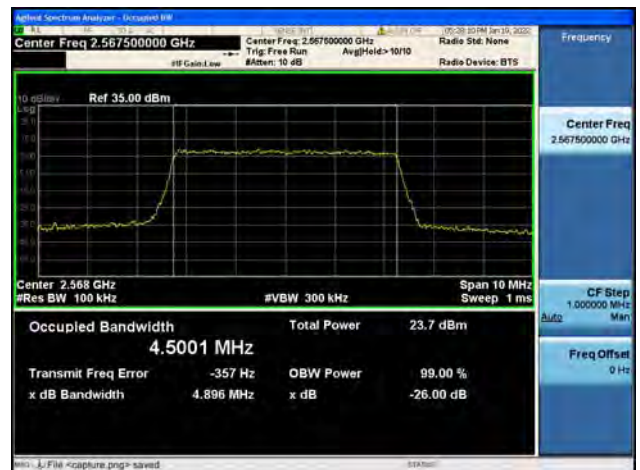
Band7 / 5MHz / Mid CH / 16QAM



Band7 / 5MHz / High CH / QPSK

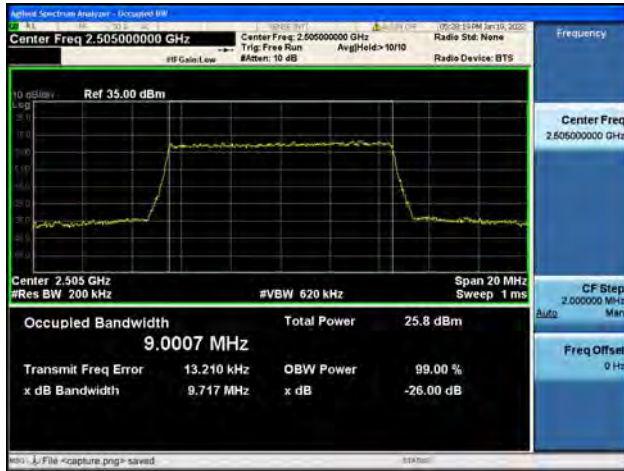


Band7 / 5MHz / High CH / 16QAM

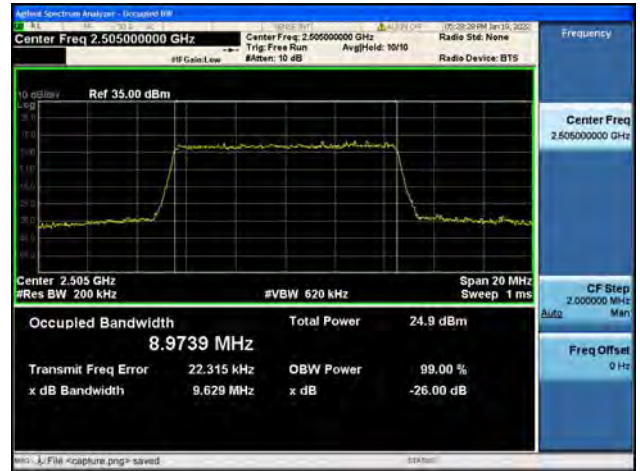




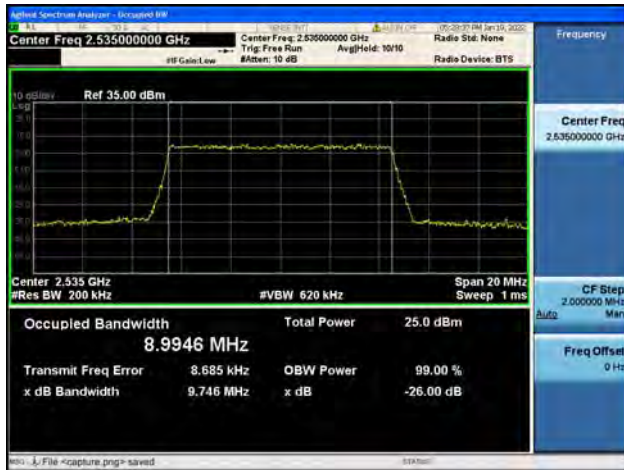
Band7 / 10MHz / Low CH / QPSK



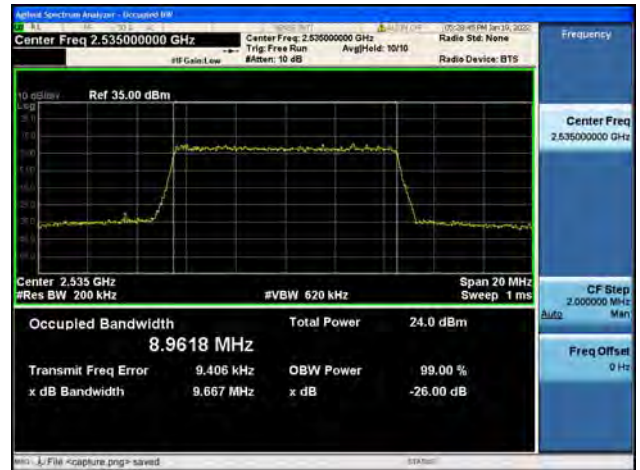
Band7 / 10MHz / Low CH / 16QAM



Band7 / 10MHz / Mid CH / QPSK



Band7 / 10MHz / Mid CH / 16QAM



Band7 / 10MHz / High CH / QPSK

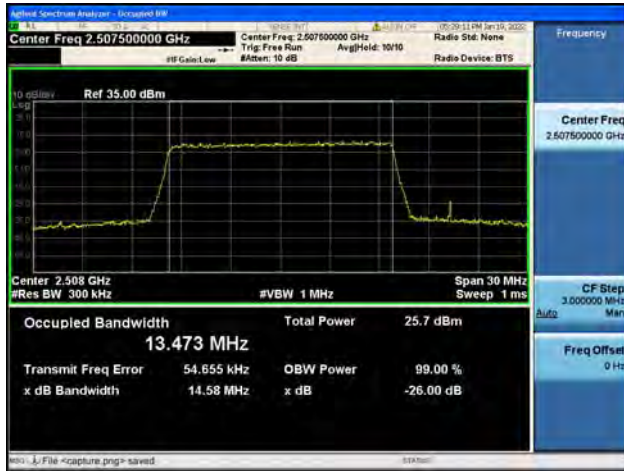


Band7 / 10MHz / High CH / 16QAM

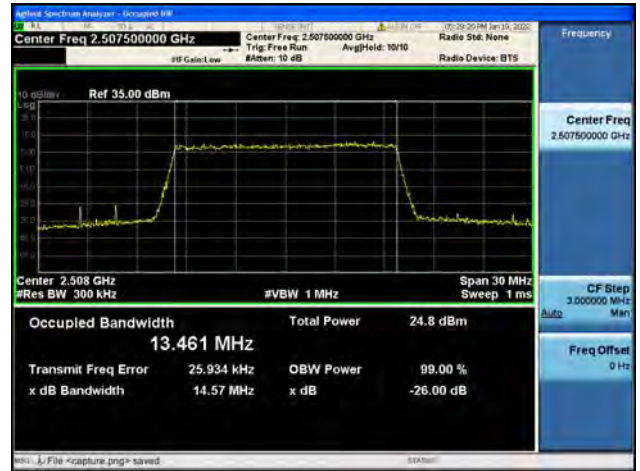




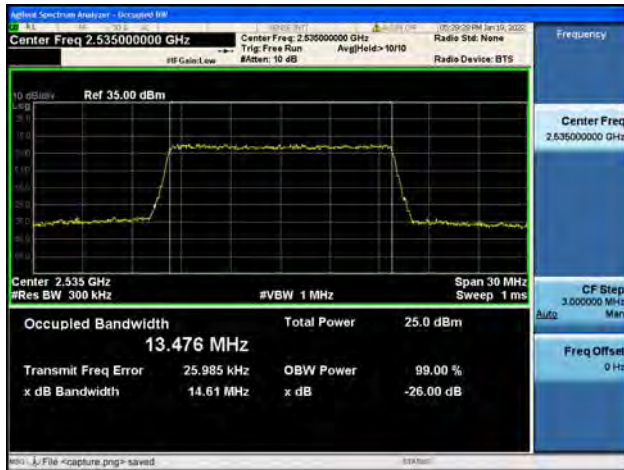
Band7 / 15MHz / Low CH / QPSK



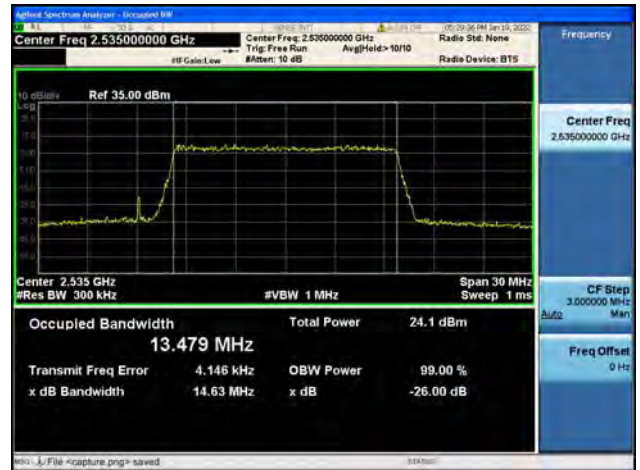
Band7 / 15MHz / Low CH / 16QAM



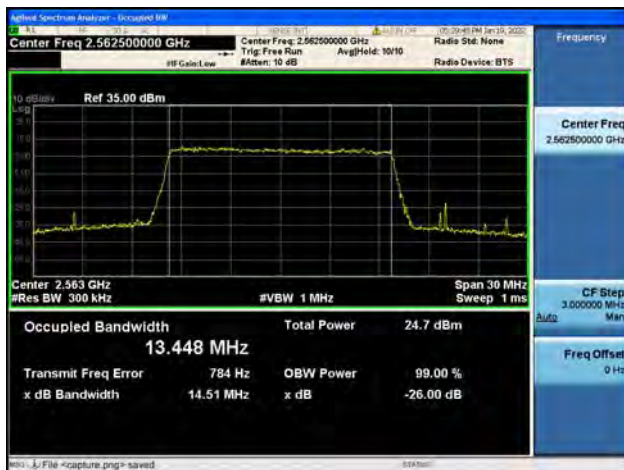
Band7 / 15MHz / Mid CH / QPSK



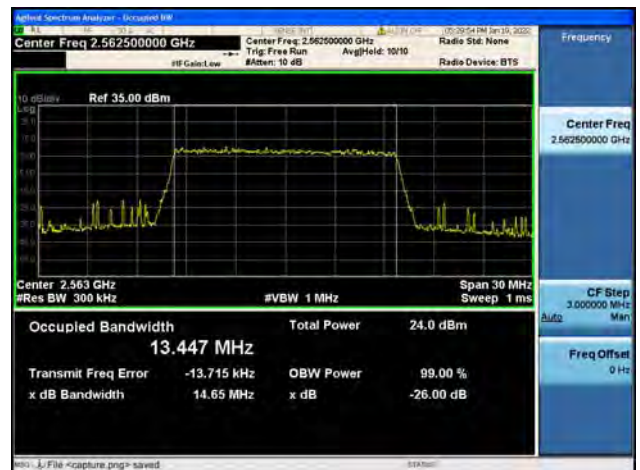
Band7 / 15MHz / Mid CH / 16QAM



Band7 / 15MHz / High CH / QPSK

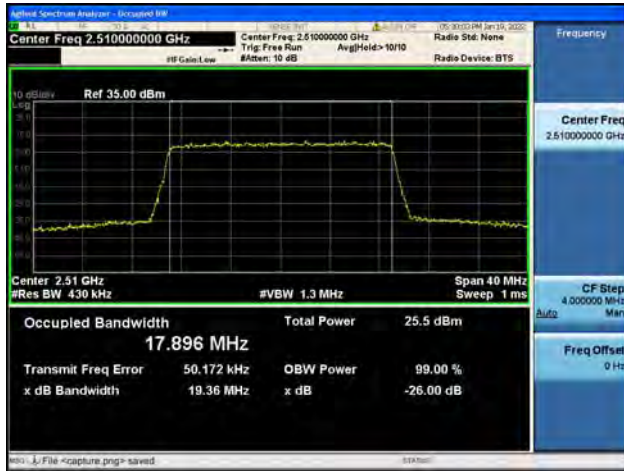


Band7 / 15MHz / High CH / 16QAM





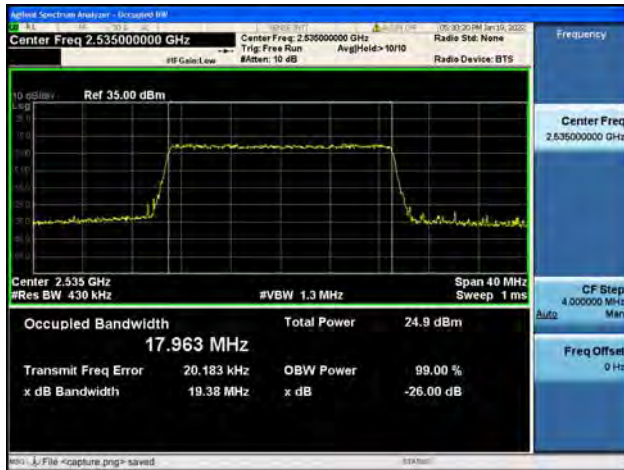
Band7 / 20MHz / Low CH / QPSK



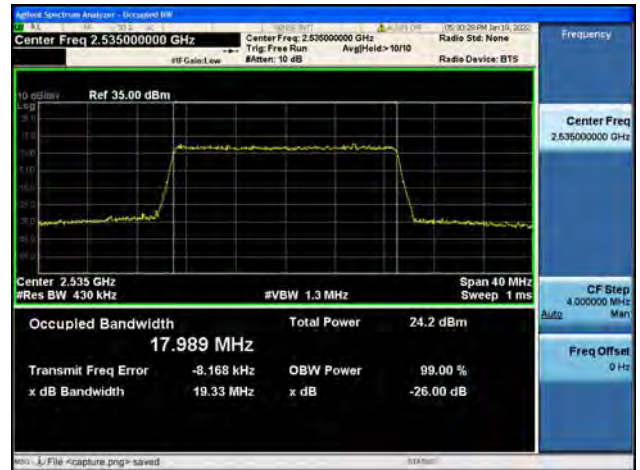
Band7 / 20MHz / Low CH / 16QAM



Band7 / 20MHz / Mid CH / QPSK



Band7 / 20MHz / Mid CH / 16QAM

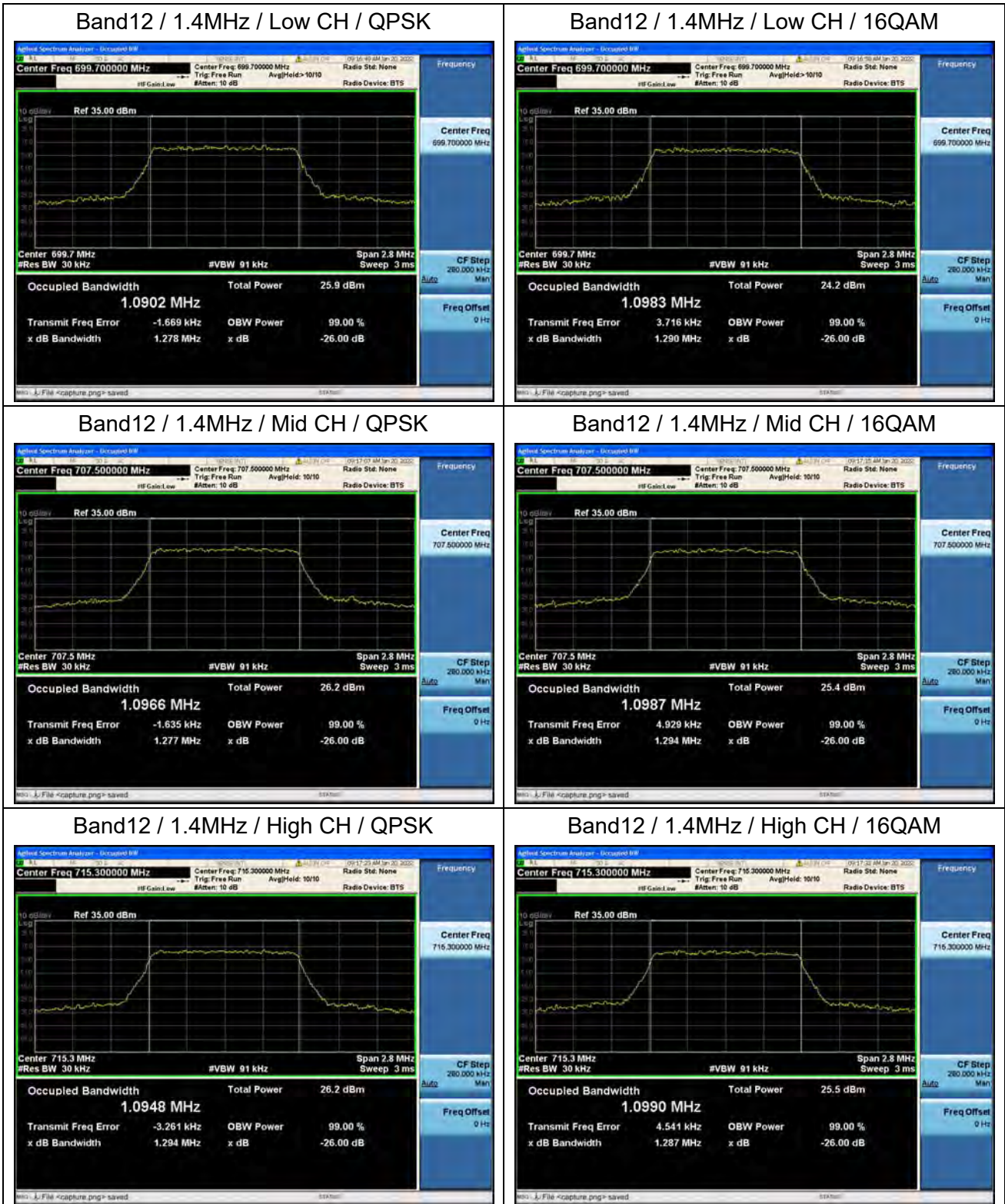


Band7 / 20MHz / High CH / QPSK



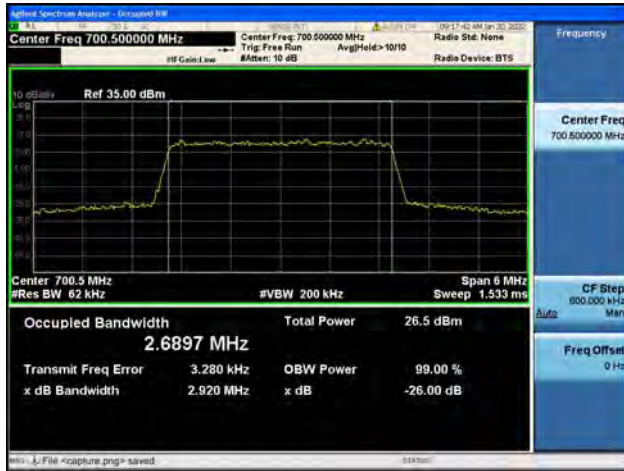
Band7 / 20MHz / High CH / 16QAM







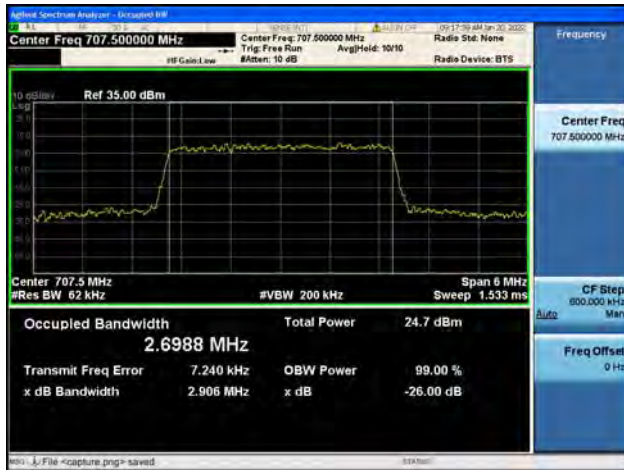
Band12 / 3MHz / Low CH / QPSK



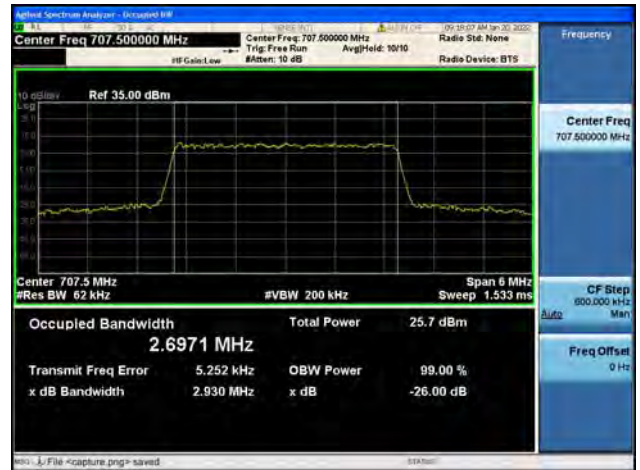
Band12 / 3MHz / Low CH / 16QAM



Band12 / 3MHz / Mid CH / QPSK



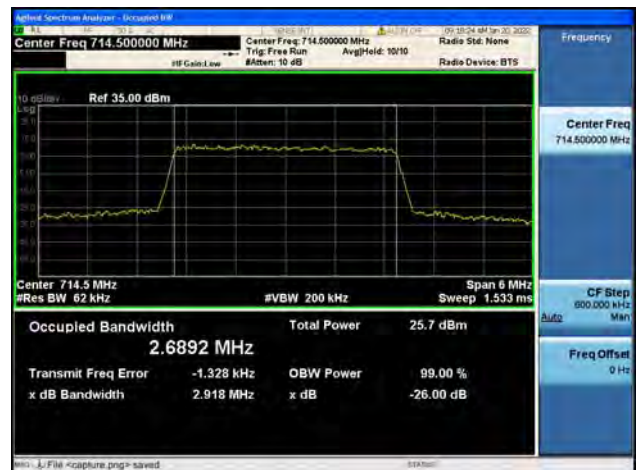
Band12 / 3MHz / Mid CH / 16QAM



Band12 / 3MHz / High CH / QPSK

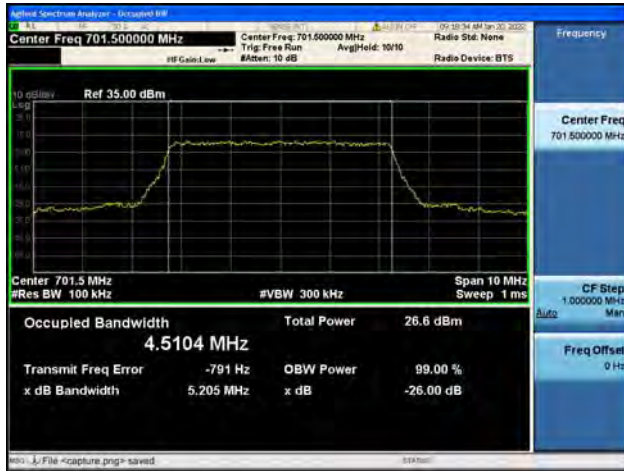


Band12 / 3MHz / High CH / 16QAM





Band12 / 5MHz / Low CH / QPSK



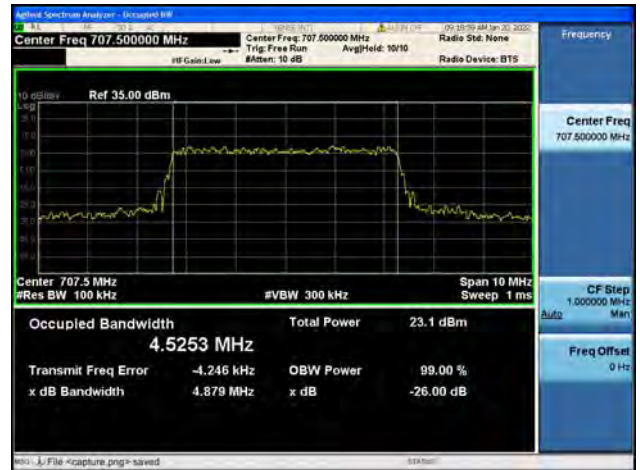
Band12 / 5MHz / Low CH / 16QAM



Band12 / 5MHz / Mid CH / QPSK



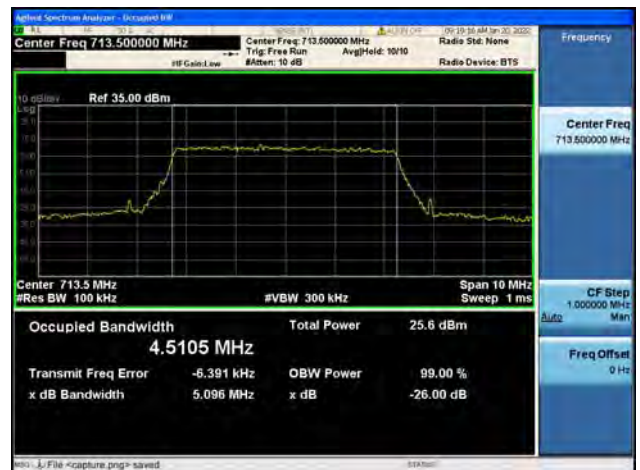
Band12 / 5MHz / Mid CH / 16QAM



Band12 / 5MHz / High CH / QPSK



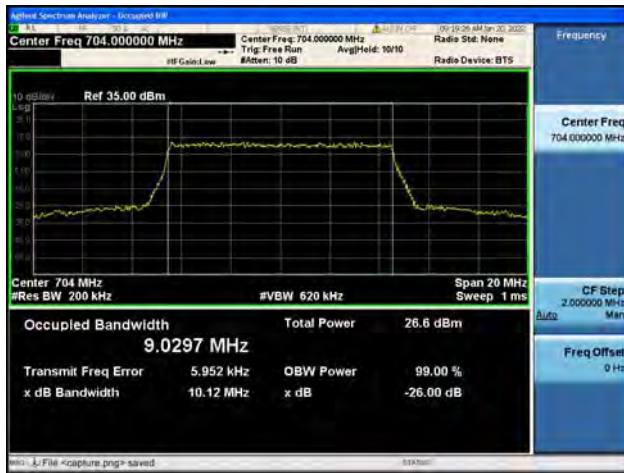
Band12 / 5MHz / High CH / 16QAM



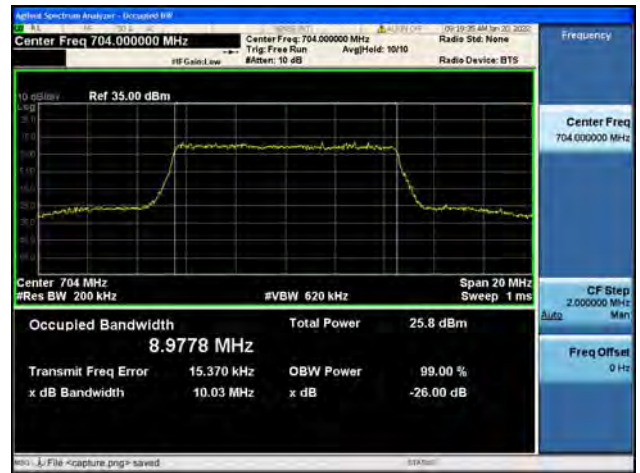




Band12 / 10MHz / Low CH / QPSK



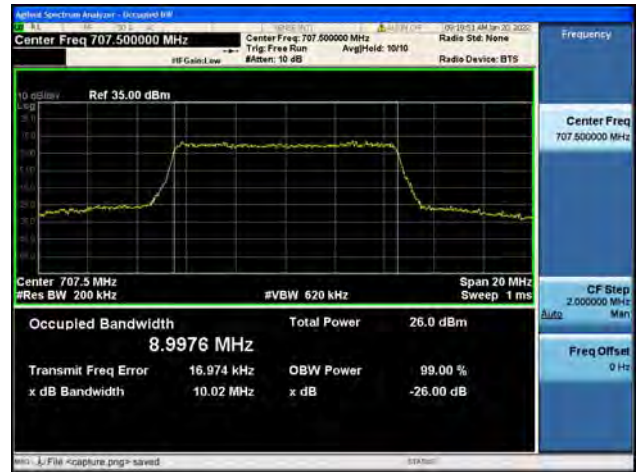
Band12 / 10MHz / Low CH / 16QAM



Band12 / 10MHz / Mid CH / QPSK



Band12 / 10MHz / Mid CH / 16QAM



Band12 / 10MHz / High CH / QPSK

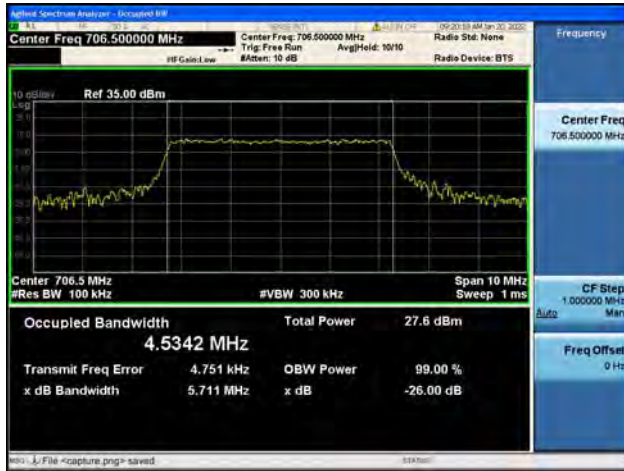


Band12 / 10MHz / High CH / 16QAM

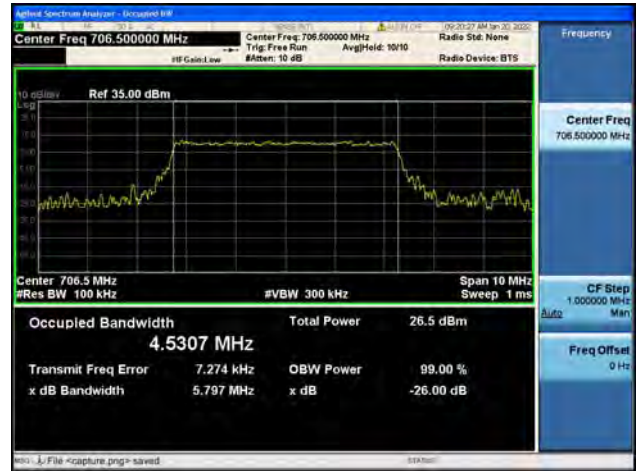




Band17 / 5MHz / Low CH / QPSK



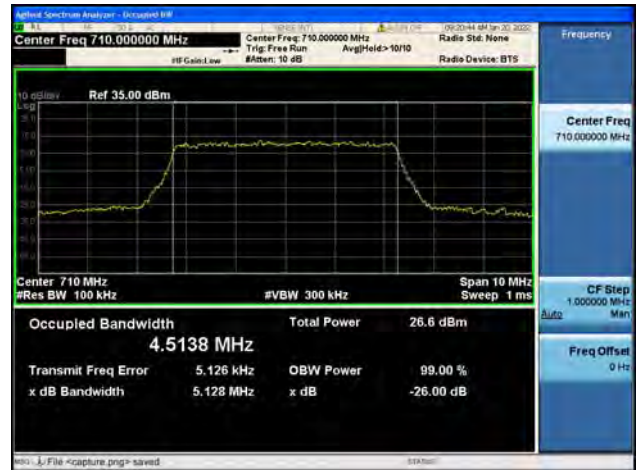
Band17 / 5MHz / Low CH / 16QAM



Band17 / 5MHz / Mid CH / QPSK



Band17 / 5MHz / Mid CH / 16QAM



Band17 / 5MHz / High CH / QPSK

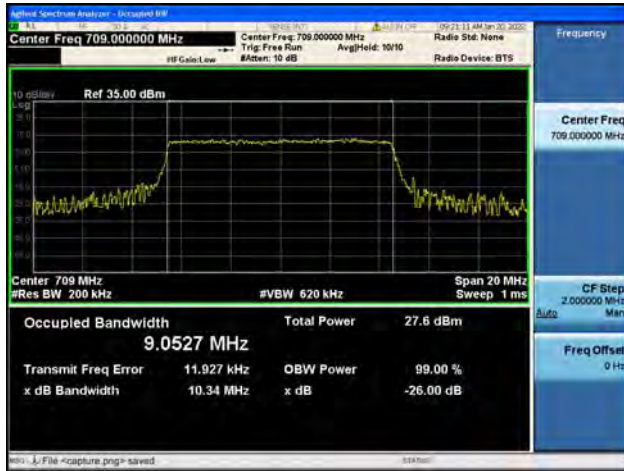


Band17 / 5MHz / High CH / 16QAM

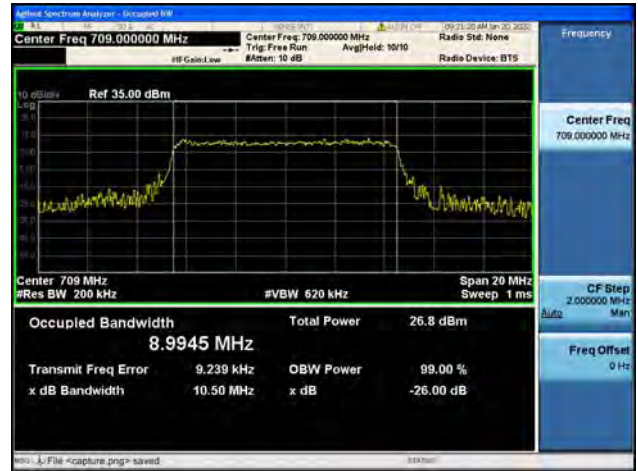




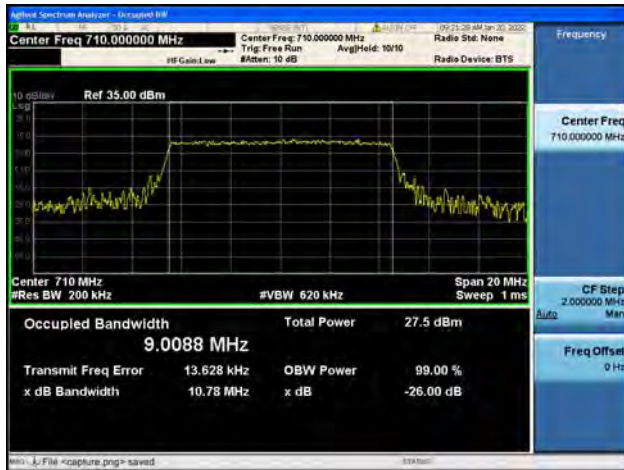
Band17 / 10MHz / Low CH / QPSK



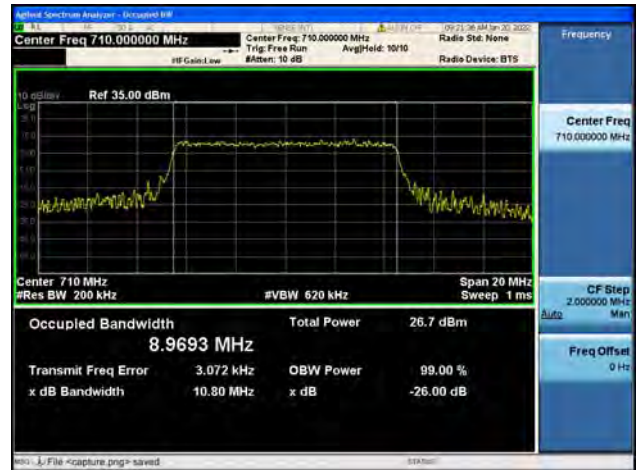
Band17 / 10MHz / Low CH / 16QAM



Band17 / 10MHz / Mid CH / QPSK



Band17 / 10MHz / Mid CH / 16QAM



Band17 / 10MHz / High CH / QPSK

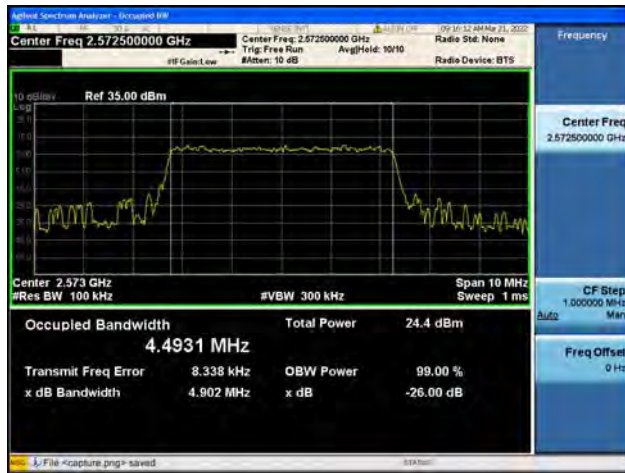


Band17 / 10MHz / High CH / 16QAM

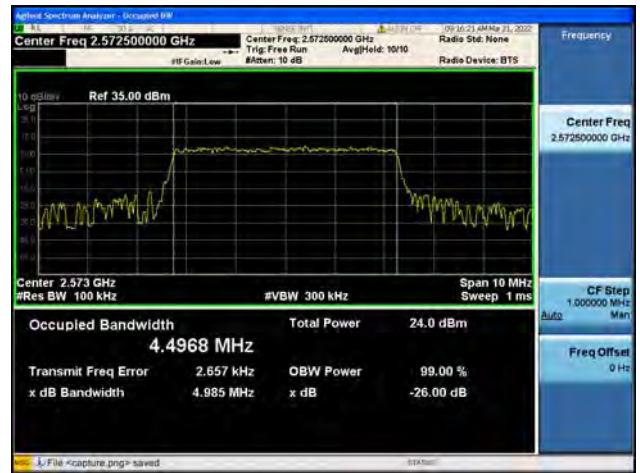




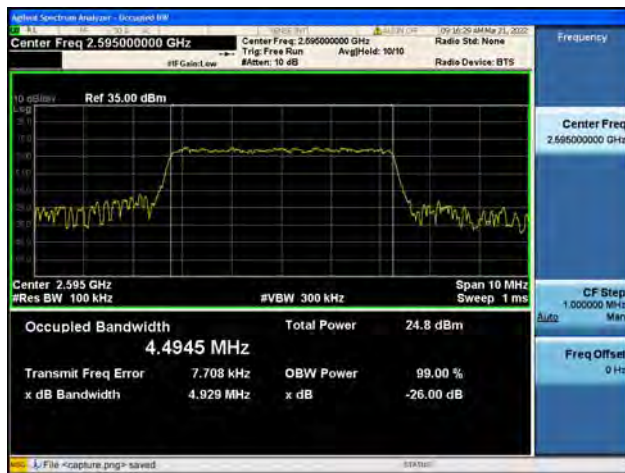
Band38 / 5MHz / Low CH / QPSK



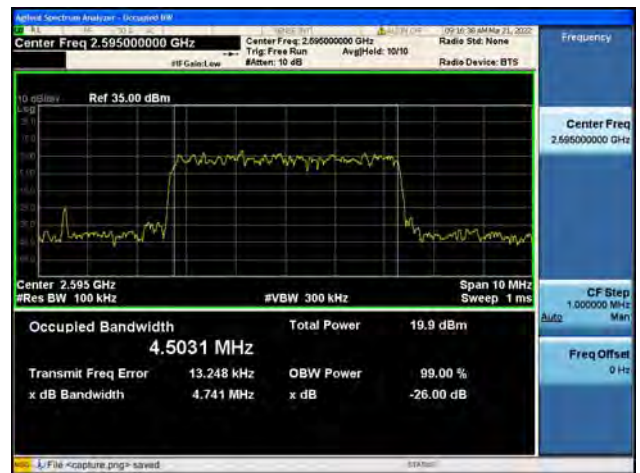
Band38 / 5MHz / Low CH / 16QAM



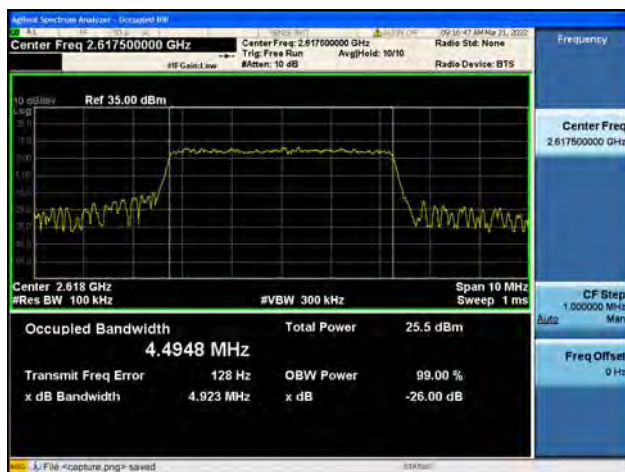
Band38 / 5MHz / Mid CH / QPSK



Band38 / 5MHz / Mid CH / 16QAM



Band38 / 5MHz / High CH / QPSK

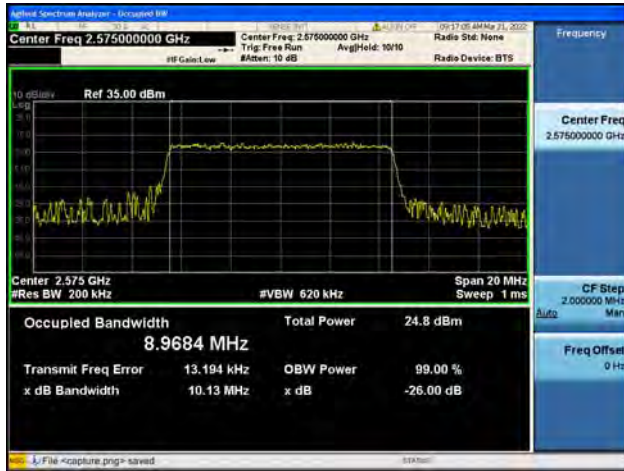


Band38 / 5MHz / High CH / 16QAM

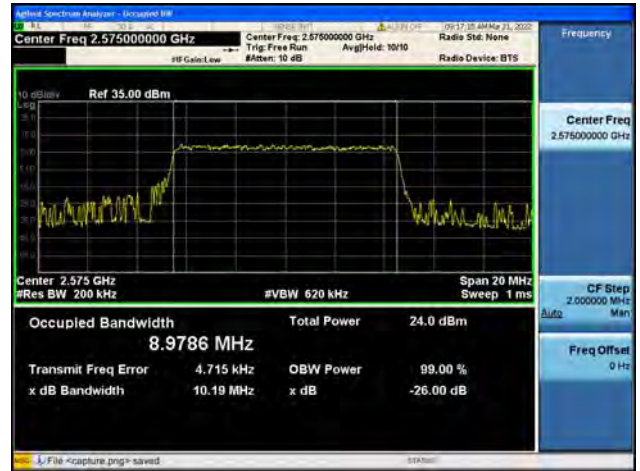




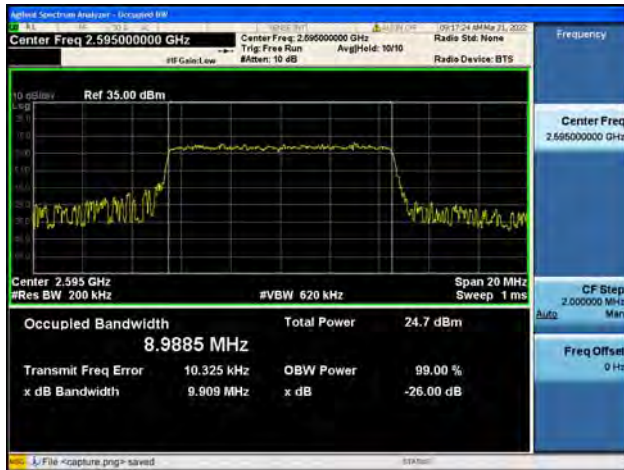
Band38 / 10MHz / Low CH / QPSK



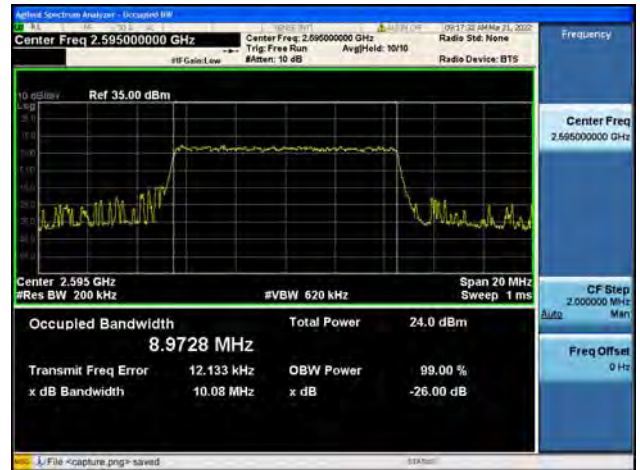
Band38 / 10MHz / Low CH / 16QAM



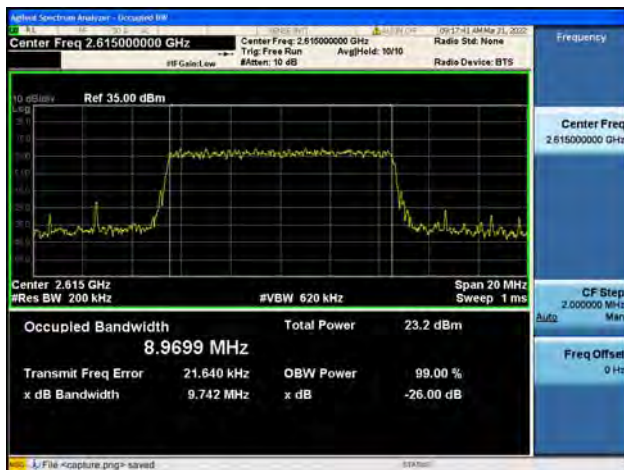
Band38 / 10MHz / Mid CH / QPSK



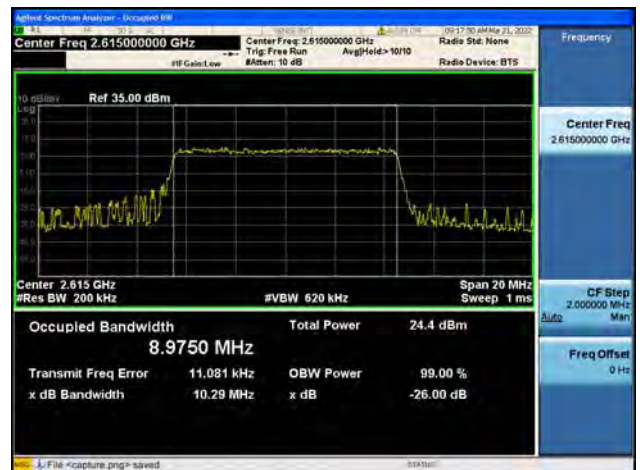
Band38 / 10MHz / Mid CH / 16QAM



Band38 / 10MHz / High CH / QPSK

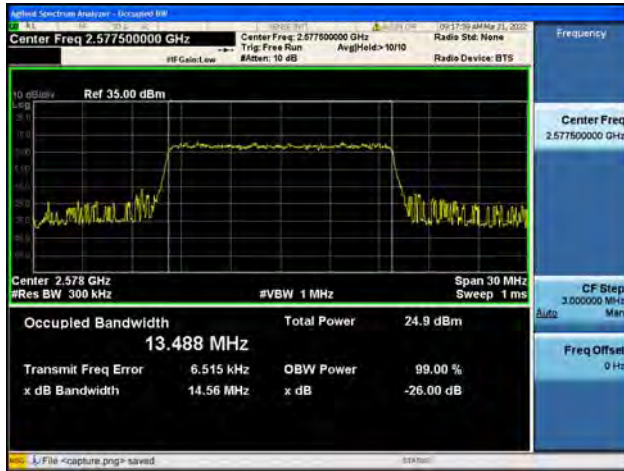


Band38 / 10MHz / High CH / 16QAM

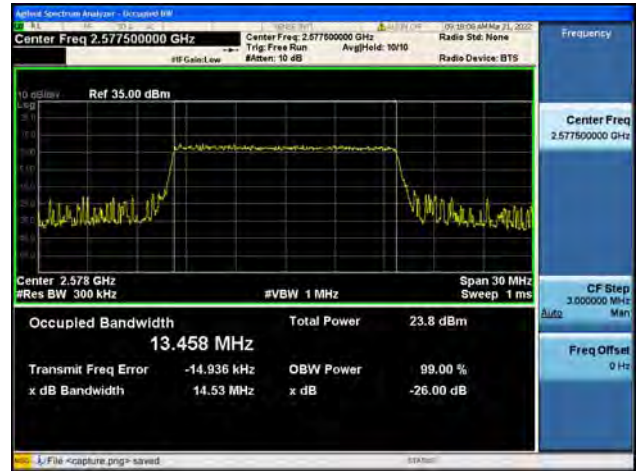




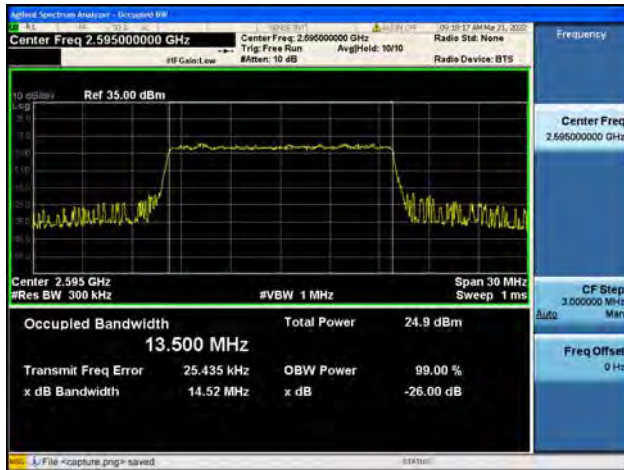
Band38 / 15MHz / Low CH / QPSK



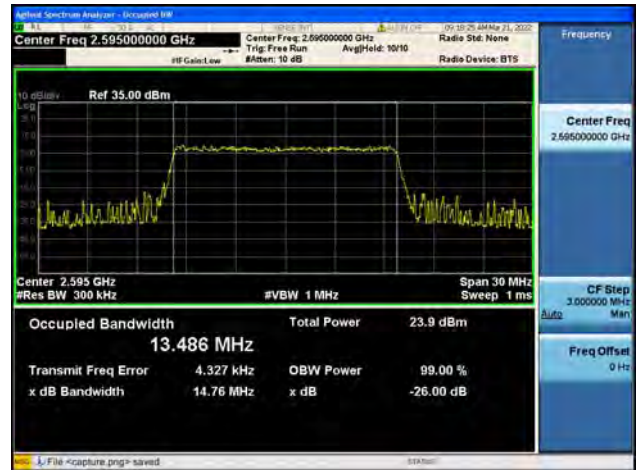
Band38 / 15MHz / Low CH / 16QAM



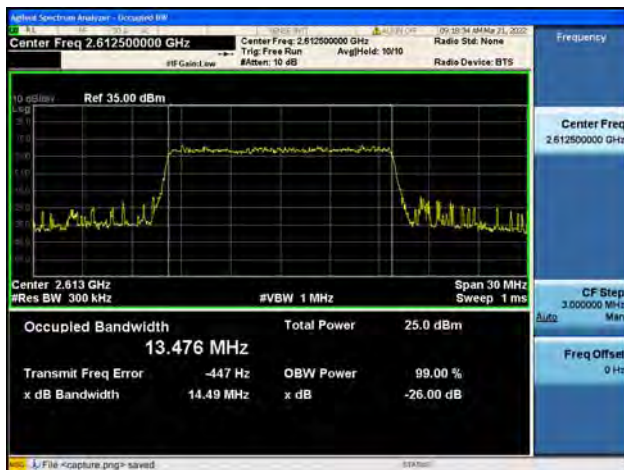
Band38 / 15MHz / Mid CH / QPSK



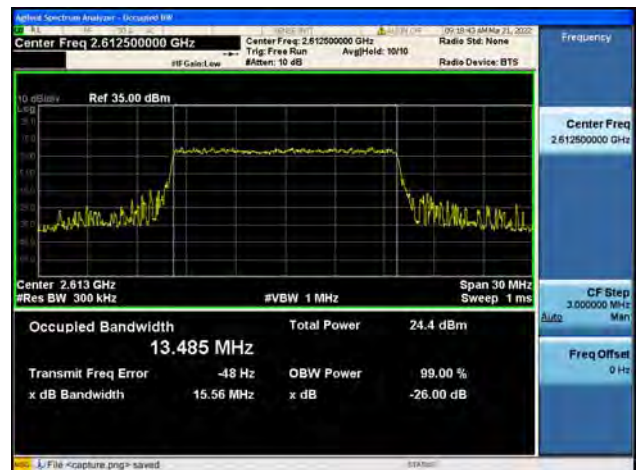
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Band38 / 15MHz / High CH / QPSK

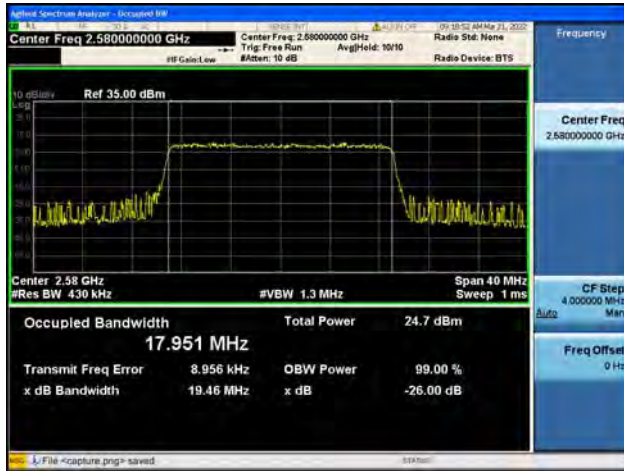


Band38 / 15MHz / High CH / 16QAM

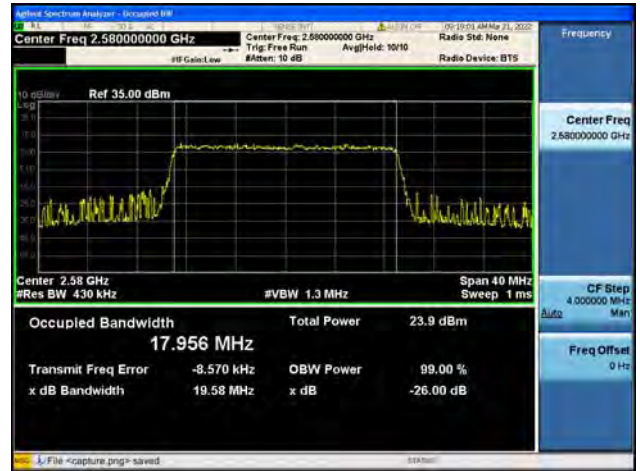




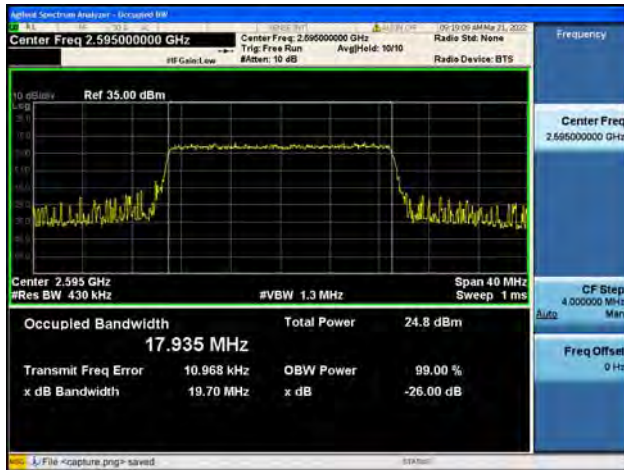
Band38 / 20MHz / Low CH / QPSK



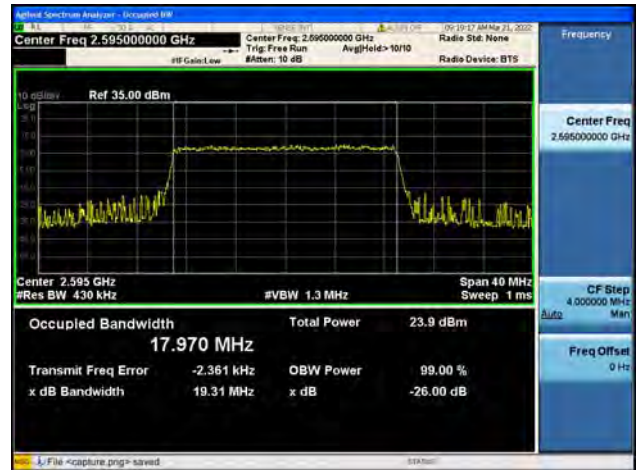
Band38 / 20MHz / Low CH / 16QAM



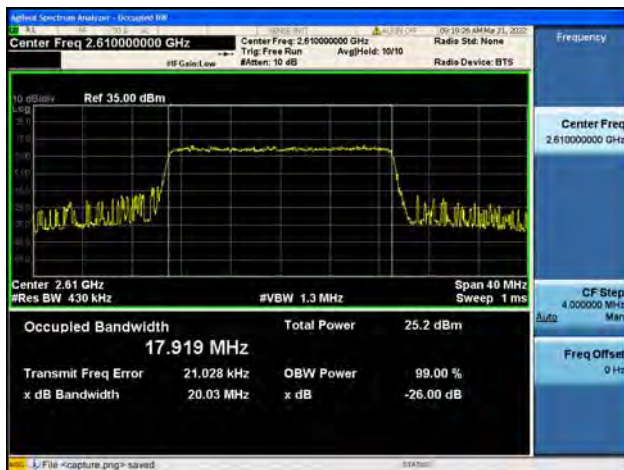
Band38 / 20MHz / Mid CH / QPSK



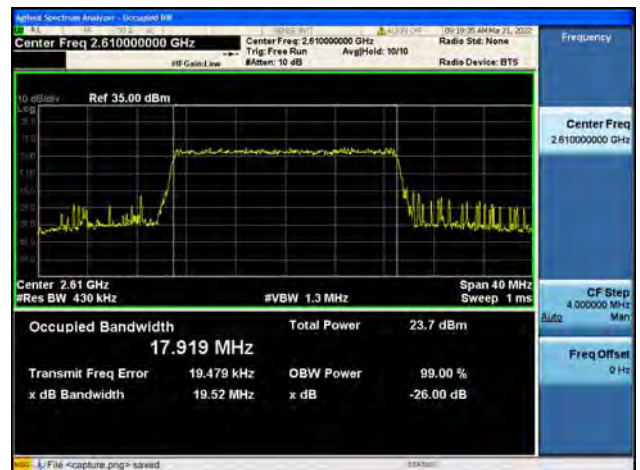
Band38 / 20MHz / Mid CH / 16QAM

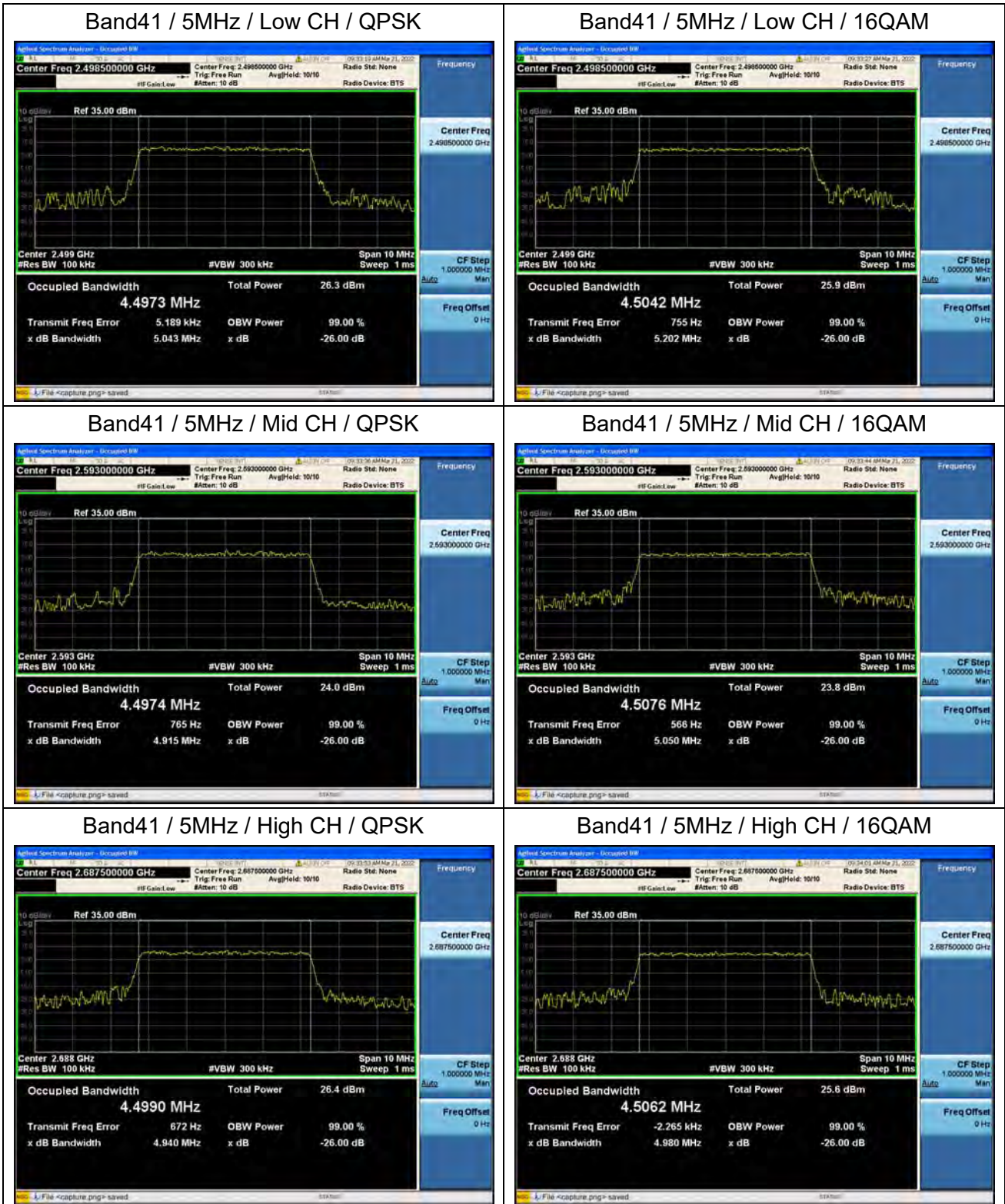


Band38 / 20MHz / High CH / QPSK



Band38 / 20MHz / High CH / 16QAM

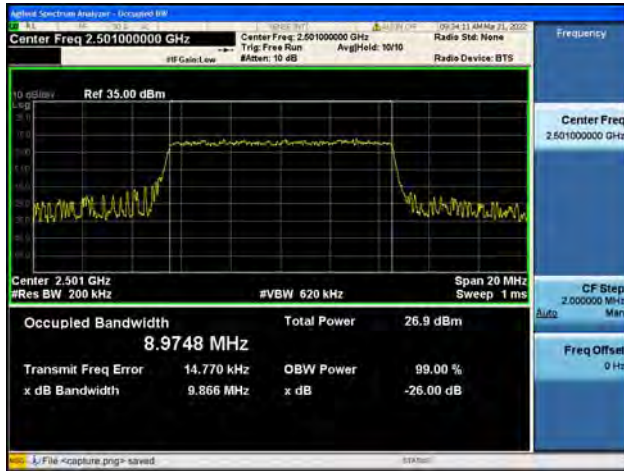




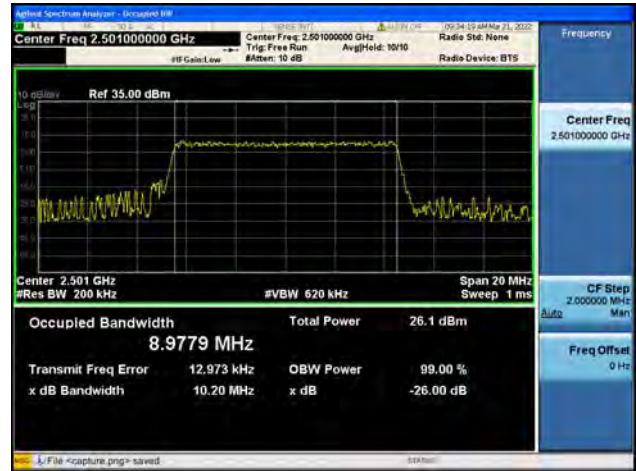




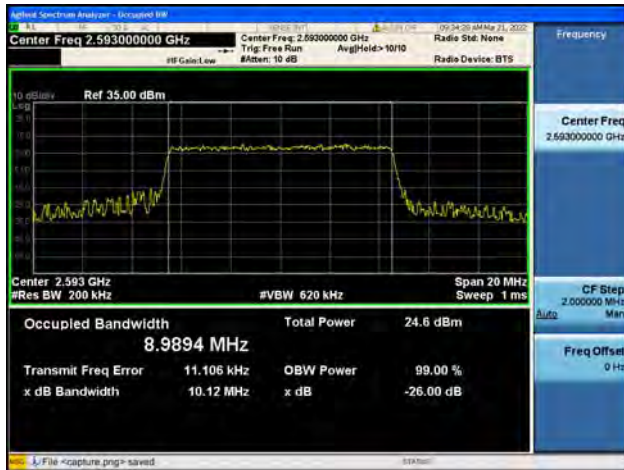
Band41 / 10MHz / Low CH / QPSK



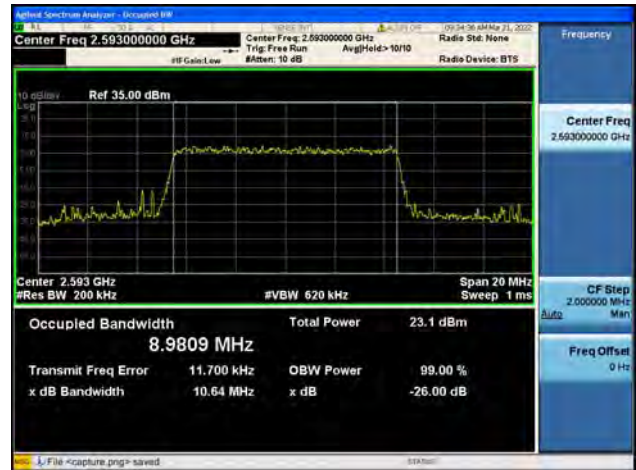
Band41 / 10MHz / Low CH / 16QAM



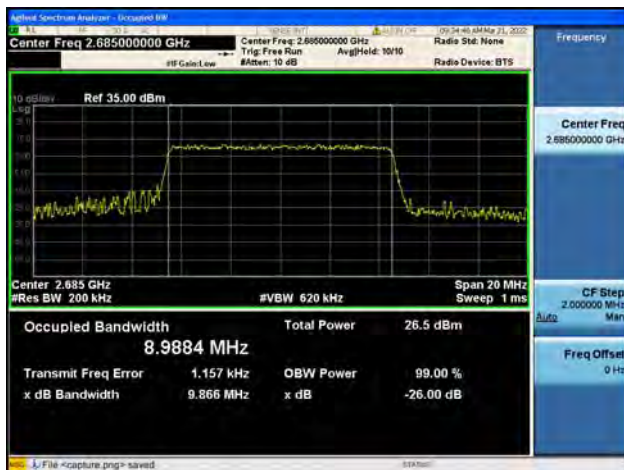
Band41 / 10MHz / Mid CH / QPSK



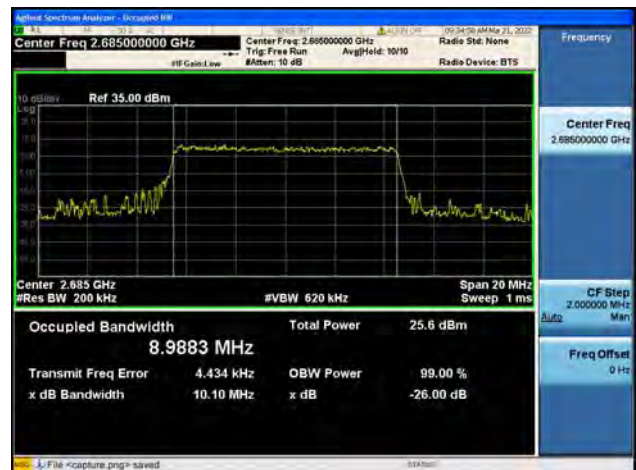
Band41 / 10MHz / Mid CH / 16QAM



Band41 / 10MHz / High CH / QPSK



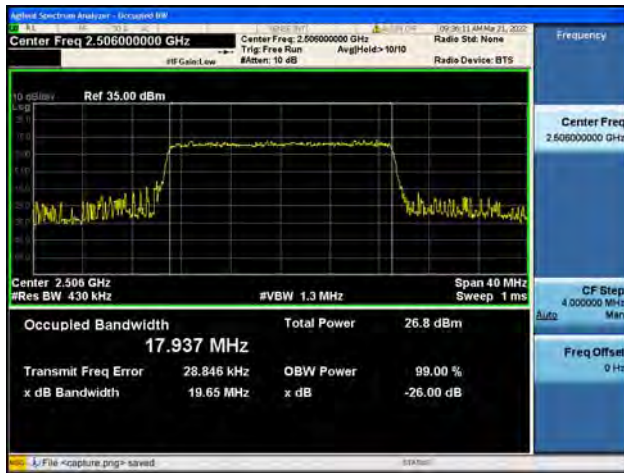
Band41 / 10MHz / High CH / 16QAM



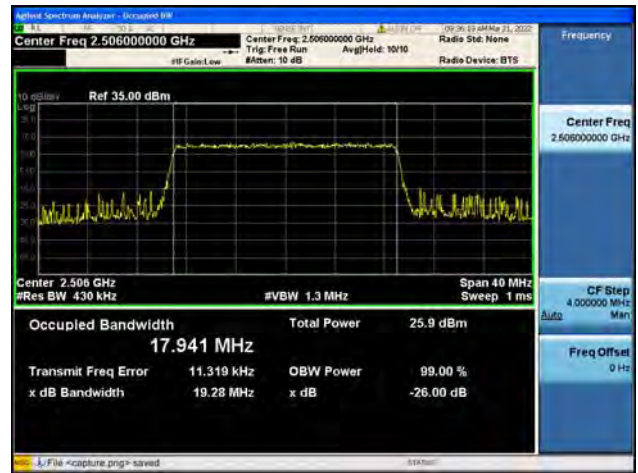




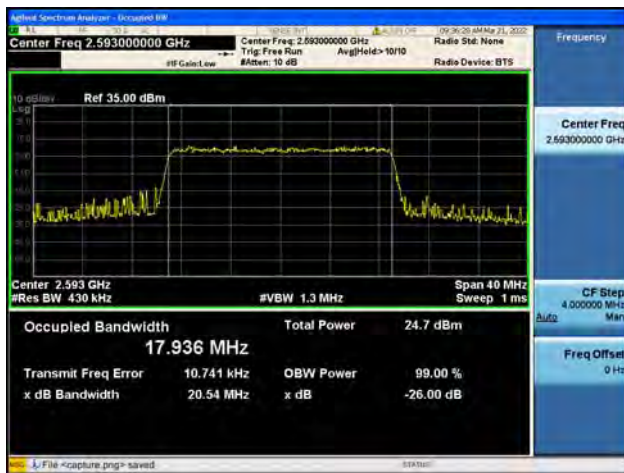
Band41 / 20MHz / Low CH / QPSK



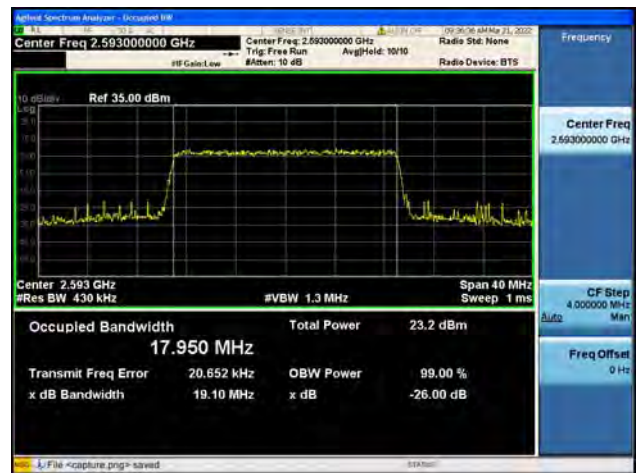
Band41 / 20MHz / Low CH / 16QAM



Band41 / 20MHz / Mid CH / QPSK



Band41 / 20MHz / Mid CH / 16QAM



Band41 / 20MHz / High CH / QPSK



Band41 / 20MHz / High CH / 16QAM



## 2.3. Frequency Stability

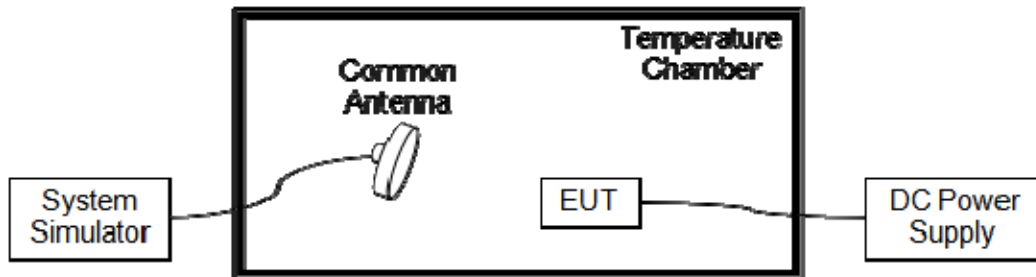
### 2.3.1. Requirement

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  $-20^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ , 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 3.80V, 4.35V and 3.50V, 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	3.80	+20(Ref)	-20	-0.011	PASS
Normal		-20	27	0.014	
Normal		-10	28	0.015	
Normal		0	17	0.009	
Normal		+10	51	0.027	
Normal		+20	34	0.018	
Normal		+30	-45	-0.024	
Normal		+40	23	0.012	
Normal		+50	-59	-0.031	
High	4.35	+20	49	0.026	
BATT.ENDPOINT	3.50	+20	13	0.007	

<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	3.80	+20(Ref)	-53	-0.031	PASS
Normal		-20	-27	-0.016	
Normal		-10	39	0.023	
Normal		0	25	0.014	
Normal		+10	56	0.032	
Normal		+20	-32	-0.018	
Normal		+30	30	0.017	
Normal		+40	16	0.009	
Normal		+50	-16	-0.009	
High	4.35	+20	-58	-0.033	
BATT.ENDPOINT	3.50	+20	23	0.013	



<b>LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz</b>					
<b>Limit=±2.5ppm</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	3.80	+20(Ref)	16	0.019	PASS
Normal		-20	25	0.030	
Normal		-10	42	0.050	
Normal		0	-54	-0.065	
Normal		+10	-21	-0.025	
Normal		+20	52	0.062	
Normal		+30	-35	-0.042	
Normal		+40	30	0.036	
Normal		+50	-21	-0.025	
High	4.35	+20	32	0.038	
BATT.ENDPOINT	3.50	+20	-46	-0.055	

<b>LTE Band 7, QPSK, Channel 21100, Frequency 2535MHz</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	3.80	+20(Ref)	28	0.011	PASS
Normal		-20	-14	-0.006	
Normal		-10	-44	-0.017	
Normal		0	-35	-0.014	
Normal		+10	42	0.017	
Normal		+20	40	0.016	
Normal		+30	-41	-0.016	
Normal		+40	-52	-0.021	
Normal		+50	-38	-0.015	
High	4.35	+20	14	0.006	
BATT.ENDPOINT	3.50	+20	-15	-0.006	



LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	-59	-0.083	PASS
Normal		-20	55	0.078	
Normal		-10	44	0.062	
Normal		0	-56	-0.079	
Normal		+10	-46	-0.065	
Normal		+20	18	0.025	
Normal		+30	29	0.041	
Normal		+40	-49	-0.069	
Normal		+50	29	0.041	
High	4.35	+20	50	0.071	
BATT.ENDPOINT	3.50	+20	24	0.034	

LTE Band 17, QPSK, Channel 23790, Frequency 710MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	-43	-0.061	PASS
Normal		-20	-31	-0.044	
Normal		-10	50	0.070	
Normal		0	-54	-0.076	
Normal		+10	35	0.049	
Normal		+20	-20	-0.028	
Normal		+30	29	0.041	
Normal		+40	28	0.039	
Normal		+50	41	0.058	
High	4.35	+20	21	0.030	
BATT.ENDPOINT	3.50	+20	37	0.052	



LTE Band 38, QPSK, Channel 38000, Frequency 2595MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	53	0.020	PASS
Normal		-20	40	0.015	
Normal		-10	28	0.011	
Normal		0	44	0.017	
Normal		+10	-59	-0.023	
Normal		+20	16	0.006	
Normal		+30	47	0.018	
Normal		+40	32	0.012	
Normal		+50	57	0.022	
High	4.35	+20	-17	-0.007	
BATT.ENDPOINT	3.50	+20	55	0.021	

LTE Band 40, Block A, QPSK, Channel 38750, Frequency 2310MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	-51	-0.022	PASS
Normal		-20	44	0.019	
Normal		-10	-15	-0.006	
Normal		0	23	0.010	
Normal		+10	44	0.019	
Normal		+20	44	0.019	
Normal		+30	-51	-0.022	
Normal		+40	42	0.018	
Normal		+50	20	0.009	
High	4.35	+20	43	0.019	
BATT.ENDPOINT	3.50	+20	51	0.022	





LTE Band 40 Block B, QPSK, Channel 39200, Frequency 2355MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	-20	-0.008	PASS
Normal		-20	-24	-0.010	
Normal		-10	32	0.014	
Normal		0	-37	-0.016	
Normal		+10	-52	-0.022	
Normal		+20	49	0.021	
Normal		+30	-36	-0.015	
Normal		+40	20	0.008	
Normal		+50	28	0.012	
High	4.35	+20	42	0.018	
BATT.ENDPOINT	3.50	+20	51	0.022	

LTE Band 41, QPSK, Channel 40620, Frequency 2593MHz					
Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	13	0.005	PASS
Normal		-20	46	0.018	
Normal		-10	31	0.012	
Normal		0	-32	-0.012	
Normal		+10	28	0.011	
Normal		+20	-21	-0.008	
Normal		+30	-30	-0.012	
Normal		+40	34	0.013	
Normal		+50	-18	-0.007	
High	4.35	+20	28	0.011	
BATT.ENDPOINT	3.50	+20	-55	-0.021	

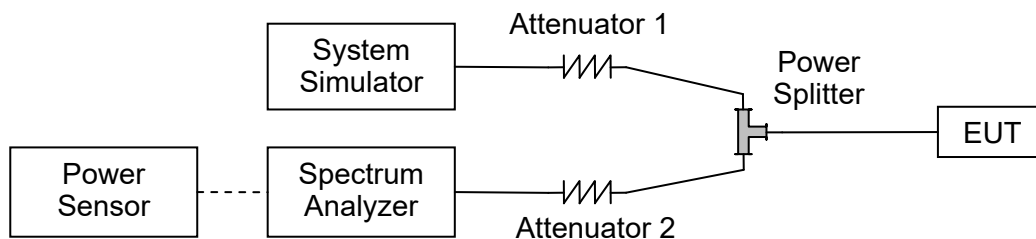
## 2.4. Peak to Average Ratio

### 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

#### Test Set:



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

### 2.4.3. 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	5.78	<=13	PASS
	Low	16QAM	6.68	<=13	PASS
	Mid	QPSK	6.07	<=13	PASS
	Mid	16QAM	6.77	<=13	PASS
	High	QPSK	5.81	<=13	PASS
	High	16QAM	6.56	<=13	PASS
3	Low	QPSK	5.96	<=13	PASS
	Low	16QAM	6.77	<=13	PASS
	Mid	QPSK	5.98	<=13	PASS
	Mid	16QAM	6.72	<=13	PASS
	High	QPSK	5.82	<=13	PASS
	High	16QAM	6.57	<=13	PASS
5	Low	QPSK	5.93	<=13	PASS
	Low	16QAM	6.57	<=13	PASS
	Mid	QPSK	5.95	<=13	PASS
	Mid	16QAM	6.52	<=13	PASS
	High	QPSK	5.82	<=13	PASS
	High	16QAM	6.43	<=13	PASS
10	Low	QPSK	5.87	<=13	PASS
	Low	16QAM	6.54	<=13	PASS
	Mid	QPSK	5.95	<=13	PASS
	Mid	16QAM	6.52	<=13	PASS
	High	QPSK	5.81	<=13	PASS
	High	16QAM	6.46	<=13	PASS
15	Low	QPSK	5.90	<=13	PASS
	Low	16QAM	6.57	<=13	PASS
	Mid	QPSK	5.94	<=13	PASS
	Mid	16QAM	6.54	<=13	PASS
	High	QPSK	5.75	<=13	PASS
	High	16QAM	6.44	<=13	PASS
20	Low	QPSK	5.77	<=13	PASS
	Low	16QAM	6.52	<=13	PASS
	Mid	QPSK	5.91	<=13	PASS
	Mid	16QAM	6.56	<=13	PASS
	High	QPSK	5.67	<=13	PASS
	High	16QAM	6.47	<=13	PASS

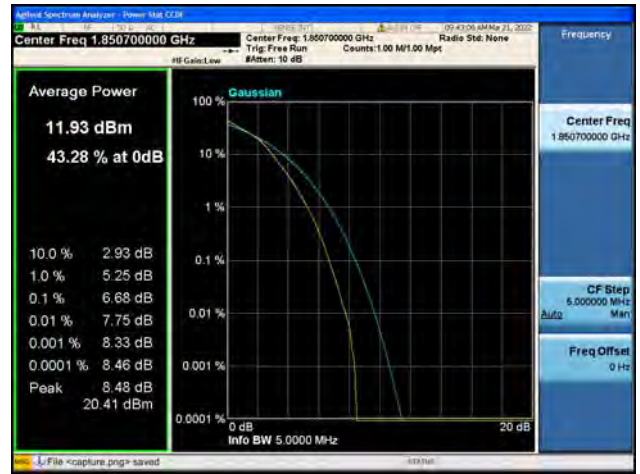


LTE Band 4					
BW(MHz)	Channel Level	Modulation	PAR Radio(dB)	Limit(dB)	Verdict
1.4	Low	QPSK	5.78	<=13	PASS
	Low	16QAM	6.59	<=13	PASS
	Mid	QPSK	5.50	<=13	PASS
	Mid	16QAM	6.30	<=13	PASS
	High	QPSK	5.45	<=13	PASS
	High	16QAM	6.24	<=13	PASS
3	Low	QPSK	5.83	<=13	PASS
	Low	16QAM	6.60	<=13	PASS
	Mid	QPSK	5.56	<=13	PASS
	Mid	16QAM	6.39	<=13	PASS
	High	QPSK	5.49	<=13	PASS
	High	16QAM	6.29	<=13	PASS
5	Low	QPSK	5.85	<=13	PASS
	Low	16QAM	6.46	<=13	PASS
	Mid	QPSK	5.64	<=13	PASS
	Mid	16QAM	6.28	<=13	PASS
	High	QPSK	5.58	<=13	PASS
	High	16QAM	6.25	<=13	PASS
10	Low	QPSK	5.80	<=13	PASS
	Low	16QAM	6.42	<=13	PASS
	Mid	QPSK	5.62	<=13	PASS
	Mid	16QAM	6.28	<=13	PASS
	High	QPSK	5.58	<=13	PASS
	High	16QAM	6.18	<=13	PASS
15	Low	QPSK	5.73	<=13	PASS
	Low	16QAM	6.39	<=13	PASS
	Mid	QPSK	5.51	<=13	PASS
	Mid	16QAM	6.24	<=13	PASS
	High	QPSK	5.42	<=13	PASS
	High	16QAM	6.17	<=13	PASS
20	Low	QPSK	5.69	<=13	PASS
	Low	16QAM	6.45	<=13	PASS
	Mid	QPSK	5.54	<=13	PASS
	Mid	16QAM	6.30	<=13	PASS
	High	QPSK	5.48	<=13	PASS
	High	16QAM	6.25	<=13	PASS

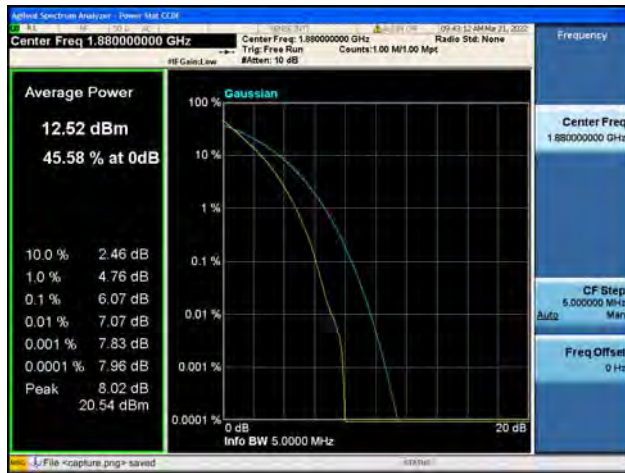
Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



Band2 / 1.4MHz / Mid CH / QPSK



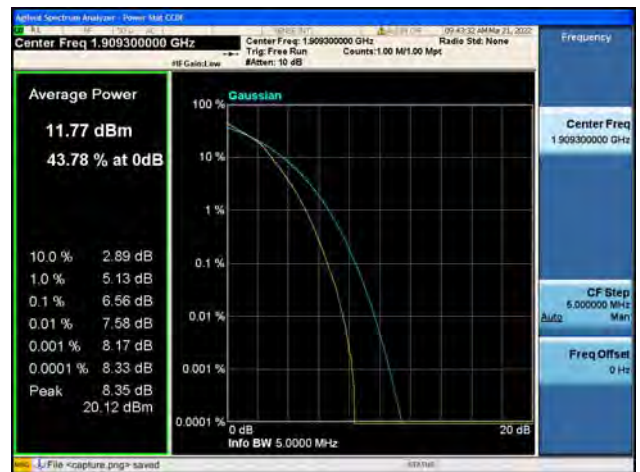
Band2 / 1.4MHz / Mid CH / 16QAM



Band2 / 1.4MHz / High CH / QPSK



Band2 / 1.4MHz / High CH / 16QAM





Band2 / 3MHz / Low CH / QPSK



Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / High CH / QPSK

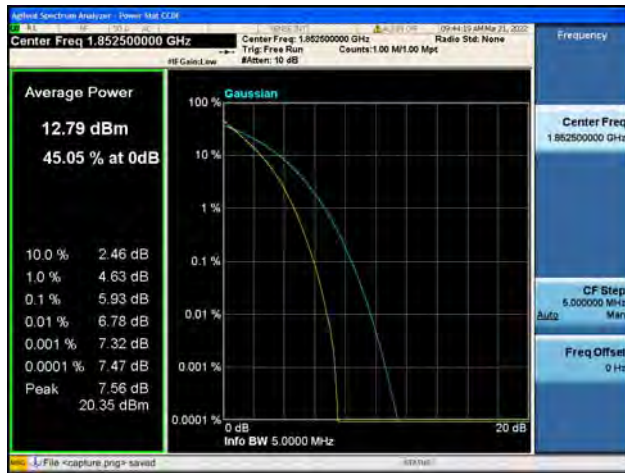


Band2 / 3MHz / High CH / 16QAM





Band2 / 5MHz / Low CH / QPSK



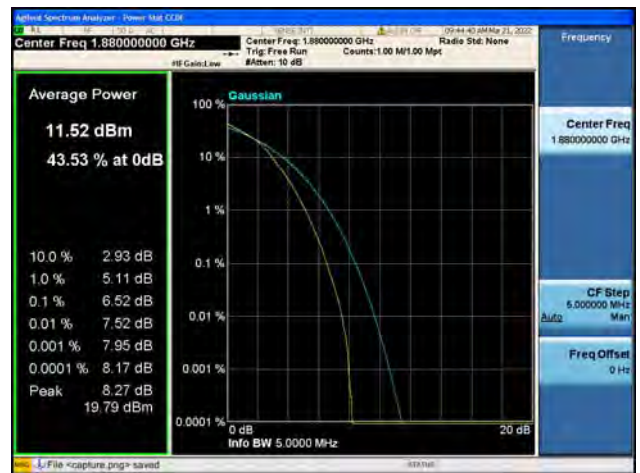
Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / High CH / QPSK

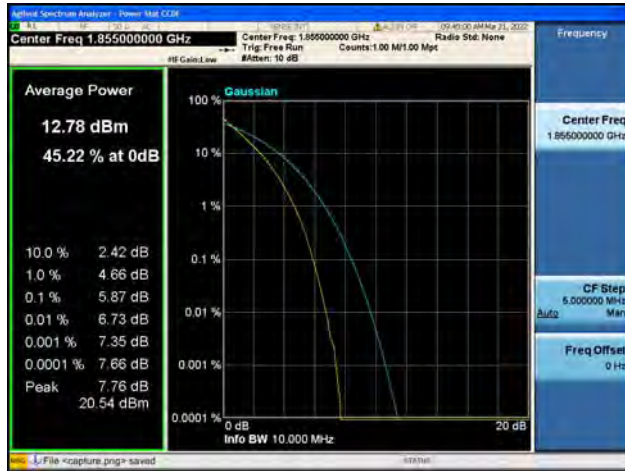


Band2 / 5MHz / High CH / 16QAM

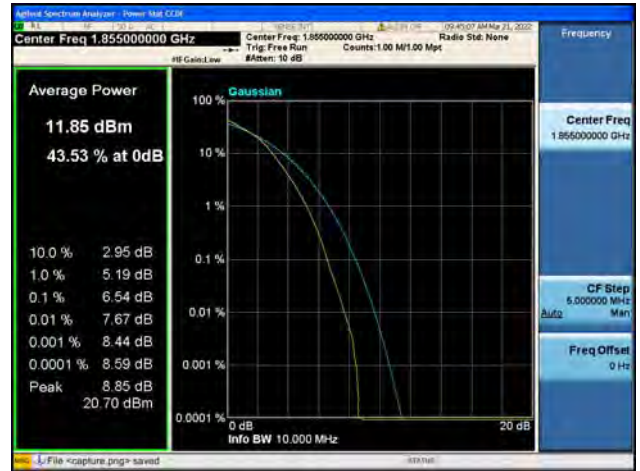




Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM







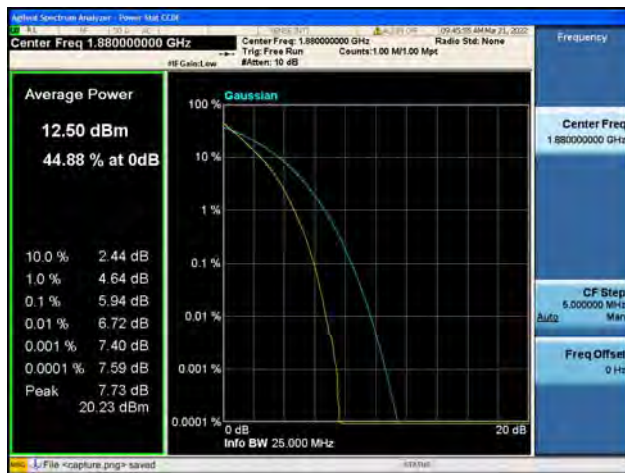
Band2 / 15MHz / Low CH / QPSK



Band2 / 15MHz / Low CH / 16QAM



Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM



Band2 / 15MHz / High CH / QPSK



Band2 / 15MHz / High CH / 16QAM





Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM



Band2 / 20MHz / Mid CH / QPSK



Band2 / 20MHz / Mid CH / 16QAM



Band2 / 20MHz / High CH / QPSK



Band2 / 20MHz / High CH / 16QAM





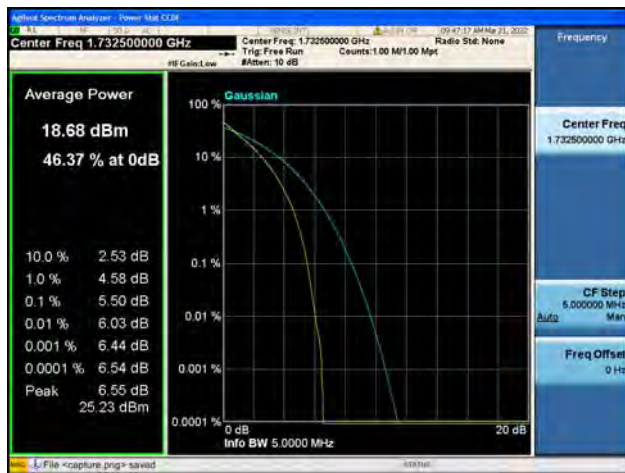
Band4 / 1.4MHz / Low CH / QPSK



Band4 / 1.4MHz / Low CH / 16QAM



Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM



Band4 / 1.4MHz / High CH / QPSK



Band4 / 1.4MHz / High CH / 16QAM





Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM



Band4 / 3MHz / Mid CH / QPSK



Band4 / 3MHz / Mid CH / 16QAM



Band4 / 3MHz / High CH / QPSK



Band4 / 3MHz / High CH / 16QAM





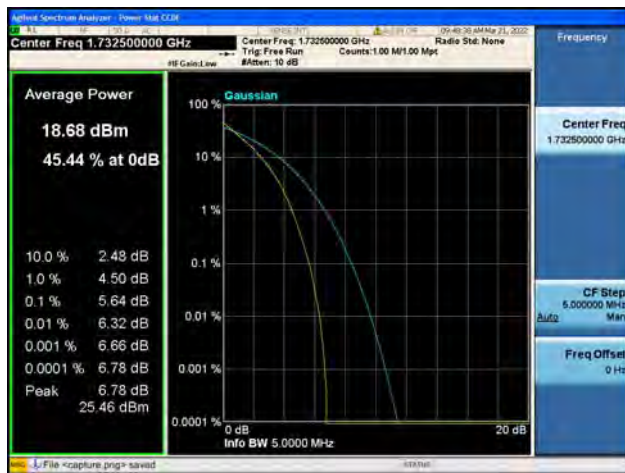
Band4 / 5MHz / Low CH / QPSK



Band4 / 5MHz / Low CH / 16QAM



Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM



Band4 / 5MHz / High CH / QPSK

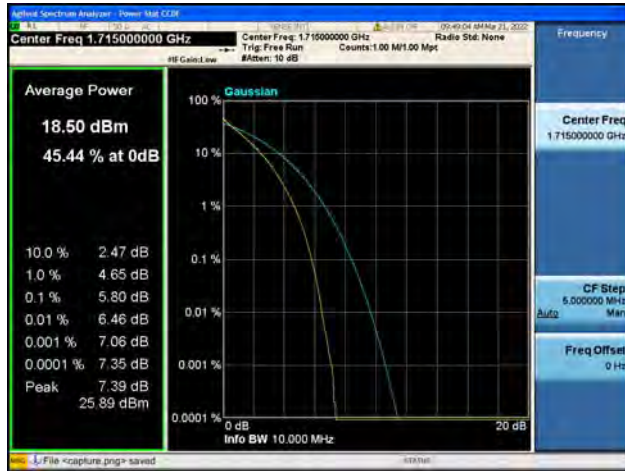


Band4 / 5MHz / High CH / 16QAM

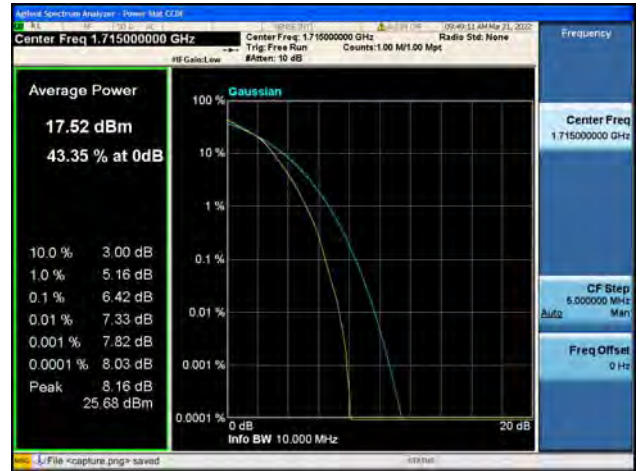




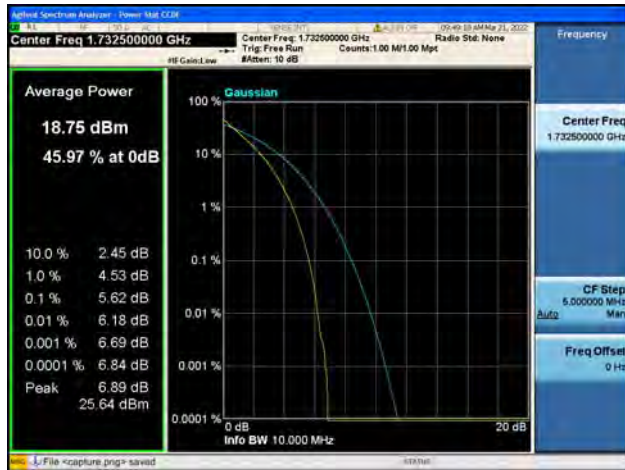
Band4 / 10MHz / Low CH / QPSK



Band4 / 10MHz / Low CH / 16QAM



Band4 / 10MHz / Mid CH / QPSK



Band4 / 10MHz / Mid CH / 16QAM



Band4 / 10MHz / High CH / QPSK

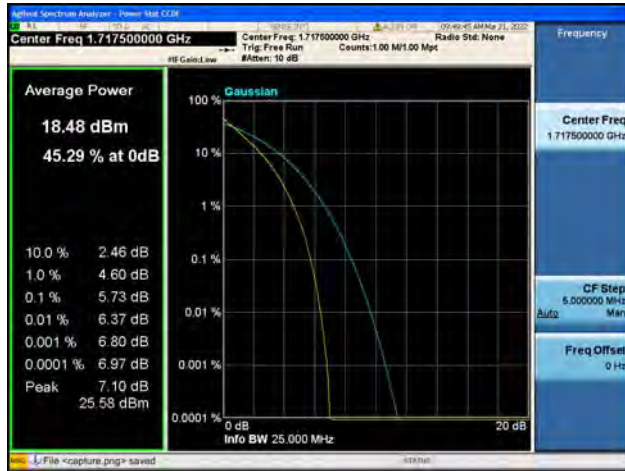


Band4 / 10MHz / High CH / 16QAM





Band4 / 15MHz / Low CH / QPSK



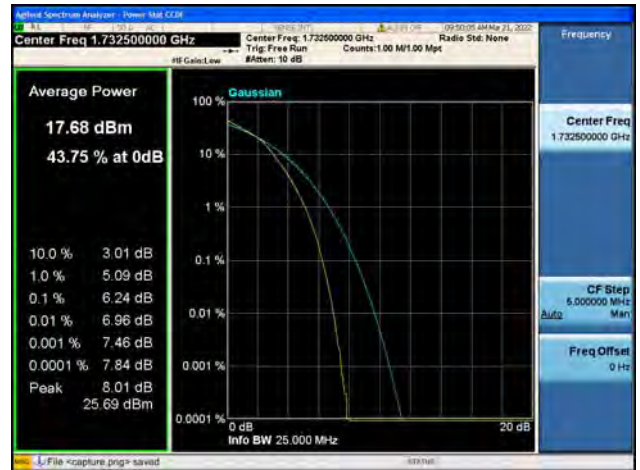
Band4 / 15MHz / Low CH / 16QAM



Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM



Band4 / 15MHz / High CH / QPSK



Band4 / 15MHz / High CH / 16QAM

