



REPORT No.: SZ24120366W03

TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : A160

BRAND NAME : BLU

FCC ID : YHLBLU160LW

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

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Change History		
Version	Date	Reason for change
1.0	2025-03-13	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

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

1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone	
Sample No.:	2#, 5#	
Hardware Version:	A571-MB-V6.0	
Software Version:	BLU_A160LL_V01_20250214	
Modulation Type:	QPSK, 16QAM	
Carrier Aggregation:	Not Support	
Operation Band:	Band 2 / 4 / 5 / 7	
Frequency Range:	LTE Band 2	Tx: 1850MHz–1910MHz
		Rx: 1930MHz–1990MHz
	LTE Band 4	Tx: 1710MHz–1755MHz
		Rx: 2110MHz–2155MHz
	LTE Band 5	Tx: 824MHz–849MHz
		Rx: 869MHz–894MHz
	LTE Band 7	Tx: 2500MHz–2570MHz
		Rx: 2620MHz–2690MHz
Channel Bandwidth:	LTE Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	LTE Band 7	5 MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 2	-0.58dBi
	LTE Band 4	-1.68dBi
	LTE Band 5	0.04dBi



	LTE Band 7	-0.44dBi
Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C664460200L
	Serial No.:	N/A
	Capacity:	2000mAh
	Rated Voltage:	3.7V
	Charge Limit:	4.2V
	Manufacturer:	HuNan ADF Alternative Energy Technology Co.,Ltd
	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-DC-0550
	Serial No.:	N/A
	Rated Output:	5.0V $\pm$ 550mA
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.15A
	Manufacturer:	ShenZhen East Sun Electronic CO., LTD

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

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

LTE Band 2		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.165	0.133	18M0G7D	18M0W7D
15		0.164	0.131	13M5G7D	13M5W7D
10		0.163	0.133	8M98G7D	8M97W7D
5		0.163	0.131	4M49G7D	4M49W7D
3		0.164	0.131	2M72G7D	2M72W7D
1.4		0.163	0.132	1M10G7D	1M10W7D
LTE Band 4		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.091	0.074	17M9G7D	18M0W7D
15		0.091	0.072	13M5G7D	13M5W7D
10		0.090	0.074	9M00G7D	8M96W7D
5		0.090	0.072	4M49G7D	4M50W7D
3		0.090	0.073	2M72G7D	2M72W7D
1.4		0.084	0.067	1M10G7D	1M10W7D
LTE Band 5		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
10		0.121	0.102	8M99G7D	8M96W7D
5		0.119	0.100	4M50G7D	4M49W7D
3		0.116	0.098	2M72G7D	2M71W7D
1.4		0.114	0.096	1M10G7D	1M10W7D
LTE Band 7		Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)		QPSK	16QAM	QPSK	16QAM
20		0.155	0.130	18M0G7D	18M0W7D
15		0.152	0.127	13M5G7D	13M5W7D
10		0.148	0.124	9M00G7D	8M98W7D
5		0.147	0.122	4M49G7D	4M49W7D



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(d)(4) 27.50(h)(2)	Transmitter Conducted Output Power and E.R.P./E.I.R.P.	Mar. 04, 2025	Yu Zhizheng Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Feb. 27, 2025	Gan Jing	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Mar. 04, 2025	Gan Jing	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Feb. 27, 2025	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(h) 27.53(m)(4)	Conducted Spurious Emissions	Feb. 27, 2025	Gan Jing	PASS	No deviation
2.1051 22.917(a) 24.238(a) 27.53(h) 27.53(m)(4)	Band Edge	Feb. 27, 2025	Gan Jing	PASS	No deviation
2.1053	Radiated	Feb. 18, 2025	Li Hanbin	PASS	No deviation



22.917(a) 24.238(a) 27.53(h) 27.53(m)(4)	Spurious Emissions				
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: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table. Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.					

1.5. Environmental Conditions

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

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

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

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

2.1.1. Requirement

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

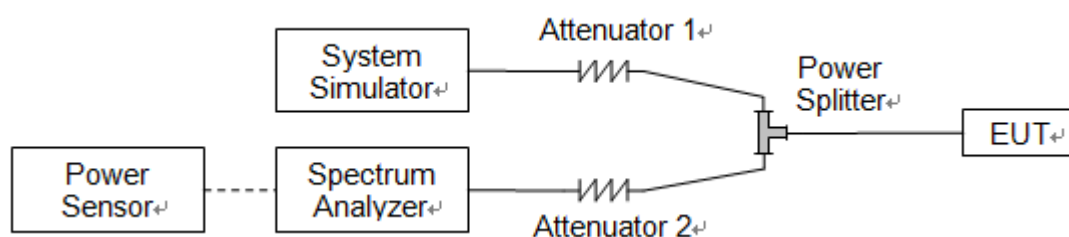
According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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

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

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

2.1.2. Test Description



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



2.1.3. Test Procedure

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

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

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

2.1.4. Result

Conducted Output Power:

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.72	22.76	22.67
20	QPSK	1	49	22.64	22.71	22.50
20	QPSK	1	99	22.59	22.60	22.44
20	QPSK	50	0	21.61	21.64	21.58
20	QPSK	50	24	21.55	21.60	21.51
20	QPSK	50	50	21.44	21.46	21.38
20	QPSK	100	0	21.49	21.52	21.45
20	16QAM	1	0	21.75	21.81	21.69
20	16QAM	1	49	21.64	21.65	21.59
20	16QAM	1	99	21.51	21.57	21.49
20	16QAM	50	0	20.72	20.80	20.67
20	16QAM	50	24	20.64	20.67	20.59
20	16QAM	50	50	20.55	20.58	20.52
20	16QAM	100	0	20.49	20.50	20.46



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.67	22.72	22.59
15	QPSK	1	37	22.61	22.64	22.54
15	QPSK	1	74	22.56	22.55	22.40
15	QPSK	36	0	21.65	21.59	21.61
15	QPSK	36	20	21.47	21.55	21.57
15	QPSK	36	39	21.54	21.44	21.42
15	QPSK	75	0	21.50	21.47	21.34
15	16QAM	1	0	21.74	21.69	21.62
15	16QAM	1	37	21.69	21.57	21.44
15	16QAM	1	74	21.54	21.53	21.37
15	16QAM	36	0	20.78	20.81	20.73
15	16QAM	36	20	20.63	20.70	20.57
15	16QAM	36	39	20.65	20.49	20.42
15	16QAM	75	0	20.48	20.50	20.49



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.65	22.69	22.64
10	QPSK	1	25	22.59	22.65	22.55
10	QPSK	1	49	22.51	22.62	22.47
10	QPSK	25	0	21.52	21.49	21.49
10	QPSK	25	12	21.58	21.53	21.61
10	QPSK	25	25	21.39	21.52	21.25
10	QPSK	50	0	21.44	21.49	21.32
10	16QAM	1	0	21.77	21.81	21.66
10	16QAM	1	25	21.67	21.70	21.53
10	16QAM	1	49	21.61	21.50	21.45
10	16QAM	25	0	20.80	20.69	20.75
10	16QAM	25	12	20.58	20.59	20.57
10	16QAM	25	25	20.59	20.47	20.53
10	16QAM	50	0	20.55	20.60	20.53



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.63	22.71	22.58
5	QPSK	1	12	22.55	22.60	22.53
5	QPSK	1	24	22.61	22.60	22.39
5	QPSK	12	0	21.65	21.50	21.59
5	QPSK	12	7	21.62	21.46	21.61
5	QPSK	12	13	21.42	21.35	21.43
5	QPSK	25	0	21.50	21.56	21.43
5	16QAM	1	0	21.65	21.74	21.55
5	16QAM	1	12	21.56	21.59	21.52
5	16QAM	1	24	21.46	21.43	21.37
5	16QAM	12	0	20.57	20.69	20.73
5	16QAM	12	7	20.54	20.56	20.53
5	16QAM	12	13	20.63	20.60	20.40
5	16QAM	25	0	20.46	20.42	20.53



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.59	22.73	22.62
3	QPSK	1	8	22.55	22.58	22.55
3	QPSK	1	14	22.49	22.52	22.52
3	QPSK	8	0	21.70	21.72	21.57
3	QPSK	8	4	21.61	21.59	21.46
3	QPSK	8	7	21.54	21.46	21.40
3	QPSK	15	0	21.41	21.37	21.34
3	16QAM	1	0	21.70	21.76	21.55
3	16QAM	1	8	21.54	21.64	21.47
3	16QAM	1	14	21.47	21.44	21.45
3	16QAM	8	0	20.70	20.75	20.53
3	16QAM	8	4	20.53	20.63	20.51
3	16QAM	8	7	20.50	20.67	20.40
3	16QAM	15	0	20.58	20.57	20.40



LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.63	22.70	22.65
1.4	QPSK	1	3	22.58	22.68	22.40
1.4	QPSK	1	5	22.48	22.54	22.52
1.4	QPSK	3	0	21.52	21.73	21.54
1.4	QPSK	3	1	21.60	21.53	21.59
1.4	QPSK	3	3	21.54	21.55	21.51
1.4	QPSK	6	0	21.55	21.54	21.33
1.4	16QAM	1	0	21.77	21.77	21.65
1.4	16QAM	1	3	21.69	21.56	21.56
1.4	16QAM	1	5	21.46	21.55	21.51
1.4	16QAM	3	0	20.62	20.74	20.58
1.4	16QAM	3	1	20.61	20.63	20.52
1.4	16QAM	3	3	20.61	20.58	20.61
1.4	16QAM	6	0	20.55	20.42	20.35



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	21.23	21.28	21.24
20	QPSK	1	49	21.21	21.14	21.10
20	QPSK	1	99	21.16	21.23	21.18
20	QPSK	50	0	20.20	20.23	20.19
20	QPSK	50	24	20.06	20.08	20.00
20	QPSK	50	50	19.98	20.07	20.09
20	QPSK	100	0	20.04	20.18	20.06
20	16QAM	1	0	20.28	20.39	20.30
20	16QAM	1	49	20.09	20.20	20.10
20	16QAM	1	99	20.05	20.22	20.11
20	16QAM	50	0	19.15	19.29	19.07
20	16QAM	50	24	19.22	19.25	19.09
20	16QAM	50	50	19.14	19.00	19.03
20	16QAM	100	0	19.01	19.04	18.92



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	21.14	21.25	21.22
15	QPSK	1	37	21.06	21.13	21.10
15	QPSK	1	74	21.01	21.16	21.12
15	QPSK	36	0	20.15	20.21	20.17
15	QPSK	36	20	19.97	20.09	19.98
15	QPSK	36	39	20.02	20.05	20.02
15	QPSK	75	0	20.06	20.10	20.01
15	16QAM	1	0	20.27	20.22	20.19
15	16QAM	1	37	20.07	20.21	20.12
15	16QAM	1	74	20.12	20.14	20.03
15	16QAM	36	0	19.09	19.24	19.13
15	16QAM	36	20	19.17	19.27	19.04
15	16QAM	36	39	19.17	18.96	19.02
15	16QAM	75	0	18.87	18.88	18.98



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	21.17	21.22	21.19
10	QPSK	1	25	21.10	21.13	21.10
10	QPSK	1	49	21.13	21.12	21.06
10	QPSK	25	0	20.02	20.02	19.99
10	QPSK	25	12	20.11	20.12	20.12
10	QPSK	25	25	20.06	19.96	19.91
10	QPSK	50	0	19.95	20.06	19.88
10	16QAM	1	0	20.14	20.36	20.22
10	16QAM	1	25	20.09	20.05	20.17
10	16QAM	1	49	20.04	20.04	20.08
10	16QAM	25	0	19.20	19.32	19.25
10	16QAM	25	12	19.07	19.20	19.03
10	16QAM	25	25	19.07	19.06	19.01
10	16QAM	50	0	19.08	19.05	18.97



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	21.18	21.23	21.20
5	QPSK	1	12	21.03	21.20	21.11
5	QPSK	1	24	20.98	21.03	21.02
5	QPSK	12	0	20.06	20.16	20.14
5	QPSK	12	7	19.96	20.13	19.92
5	QPSK	12	13	19.99	20.06	19.99
5	QPSK	25	0	19.91	20.11	19.91
5	16QAM	1	0	20.15	20.27	20.27
5	16QAM	1	12	20.19	20.25	20.02
5	16QAM	1	24	19.95	20.14	19.91
5	16QAM	12	0	19.12	19.39	19.19
5	16QAM	12	7	19.06	19.07	19.08
5	16QAM	12	13	19.11	19.19	19.11
5	16QAM	25	0	18.94	18.92	18.97



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	21.14	21.21	21.07
3	QPSK	1	8	21.02	21.18	21.04
3	QPSK	1	14	21.08	21.09	21.01
3	QPSK	8	0	20.01	20.07	19.95
3	QPSK	8	4	20.14	20.07	19.90
3	QPSK	8	7	19.99	19.89	19.92
3	QPSK	15	0	20.02	20.03	19.96
3	16QAM	1	0	20.21	20.34	20.13
3	16QAM	1	8	20.17	20.17	19.99
3	16QAM	1	14	19.94	20.14	20.05
3	16QAM	8	0	19.33	19.29	19.27
3	16QAM	8	4	19.21	19.20	19.08
3	16QAM	8	7	18.93	19.19	19.07
3	16QAM	15	0	18.99	19.07	18.91



LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	20.88	20.92	20.88
1.4	QPSK	1	3	20.87	20.87	20.73
1.4	QPSK	1	5	20.74	20.77	20.76
1.4	QPSK	3	0	20.15	20.01	20.01
1.4	QPSK	3	1	20.22	20.16	20.02
1.4	QPSK	3	3	20.13	20.25	20.14
1.4	QPSK	6	0	19.64	19.67	19.72
1.4	16QAM	1	0	19.83	19.94	19.83
1.4	16QAM	1	3	19.85	19.91	19.78
1.4	16QAM	1	5	19.58	19.80	19.76
1.4	16QAM	3	0	19.26	19.28	19.20
1.4	16QAM	3	1	19.26	19.19	19.29
1.4	16QAM	3	3	19.29	19.08	19.01
1.4	16QAM	6	0	18.78	18.75	18.74



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	22.90	22.95	22.88
10	QPSK	1	25	22.87	22.89	22.74
10	QPSK	1	49	22.76	22.83	22.71
10	QPSK	25	0	21.82	21.93	21.74
10	QPSK	25	12	21.79	21.68	21.78
10	QPSK	25	25	21.76	21.75	21.68
10	QPSK	50	0	21.68	21.77	21.73
10	16QAM	1	0	22.08	22.20	21.89
10	16QAM	1	25	21.92	21.84	21.83
10	16QAM	1	49	21.85	21.88	21.70
10	16QAM	25	0	21.07	20.97	21.03
10	16QAM	25	12	20.86	20.89	20.93
10	16QAM	25	25	20.83	20.75	20.71
10	16QAM	50	0	20.77	20.68	20.83



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	22.81	22.86	22.79
5	QPSK	1	12	22.78	22.80	22.65
5	QPSK	1	24	22.67	22.74	22.62
5	QPSK	12	0	21.73	21.84	21.65
5	QPSK	12	7	21.70	21.59	21.69
5	QPSK	12	13	21.67	21.66	21.59
5	QPSK	25	0	21.59	21.68	21.64
5	16QAM	1	0	21.99	22.11	21.80
5	16QAM	1	12	21.83	21.75	21.74
5	16QAM	1	24	21.76	21.79	21.61
5	16QAM	12	0	20.98	20.88	20.94
5	16QAM	12	7	20.77	20.80	20.84
5	16QAM	12	13	20.74	20.66	20.62
5	16QAM	25	0	20.68	20.59	20.74



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.72	22.77	22.70
3	QPSK	1	8	22.69	22.71	22.56
3	QPSK	1	14	22.58	22.65	22.53
3	QPSK	8	0	21.64	21.75	21.56
3	QPSK	8	4	21.61	21.50	21.60
3	QPSK	8	7	21.58	21.57	21.50
3	QPSK	15	0	21.50	21.59	21.55
3	16QAM	1	0	21.90	22.02	21.71
3	16QAM	1	8	21.74	21.66	21.65
3	16QAM	1	14	21.67	21.70	21.52
3	16QAM	8	0	20.89	20.79	20.85
3	16QAM	8	4	20.68	20.71	20.75
3	16QAM	8	7	20.65	20.57	20.53
3	16QAM	15	0	20.59	20.50	20.65



LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.63	22.68	22.61
1.4	QPSK	1	3	22.60	22.62	22.47
1.4	QPSK	1	5	22.49	22.56	22.44
1.4	QPSK	3	0	22.15	22.26	22.07
1.4	QPSK	3	1	22.12	22.01	22.11
1.4	QPSK	3	3	22.09	22.08	22.01
1.4	QPSK	6	0	21.41	21.50	21.46
1.4	16QAM	1	0	21.81	21.93	21.62
1.4	16QAM	1	3	21.65	21.57	21.56
1.4	16QAM	1	5	21.58	21.61	21.43
1.4	16QAM	3	0	21.40	21.30	21.36
1.4	16QAM	3	1	21.19	21.22	21.26
1.4	16QAM	3	3	21.16	21.08	21.04
1.4	16QAM	6	0	20.50	20.41	20.56



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	22.28	22.35	22.26
20	QPSK	1	49	22.25	22.27	22.12
20	QPSK	1	99	22.14	22.21	22.09
20	QPSK	50	0	21.20	21.31	21.12
20	QPSK	50	24	21.17	21.06	21.16
20	QPSK	50	50	21.14	21.13	21.06
20	QPSK	100	0	21.06	21.15	21.11
20	16QAM	1	0	21.46	21.58	21.27
20	16QAM	1	49	21.30	21.22	21.21
20	16QAM	1	99	21.23	21.26	21.08
20	16QAM	50	0	20.45	20.35	20.41
20	16QAM	50	24	20.24	20.27	20.31
20	16QAM	50	50	20.21	20.13	20.09
20	16QAM	100	0	20.15	20.06	20.21



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	22.19	22.26	22.17
15	QPSK	1	37	22.16	22.18	22.03
15	QPSK	1	74	22.05	22.12	22.00
15	QPSK	36	0	21.11	21.22	21.03
15	QPSK	36	20	21.08	21.18	21.07
15	QPSK	36	39	21.05	21.04	21.05
15	QPSK	75	0	21.00	21.06	21.02
15	16QAM	1	0	21.37	21.49	21.18
15	16QAM	1	37	21.21	21.13	21.12
15	16QAM	1	74	21.14	21.17	21.18
15	16QAM	36	0	20.36	20.26	20.32
15	16QAM	36	20	20.15	20.18	20.22
15	16QAM	36	39	20.12	20.04	20.00
15	16QAM	75	0	20.06	20.03	20.12



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	22.08	22.15	22.06
10	QPSK	1	25	22.05	22.07	22.03
10	QPSK	1	49	22.05	22.01	22.00
10	QPSK	25	0	21.00	21.11	21.03
10	QPSK	25	12	21.08	21.08	21.07
10	QPSK	25	25	21.05	21.04	21.08
10	QPSK	50	0	21.08	21.06	21.02
10	16QAM	1	0	21.26	21.38	21.07
10	16QAM	1	25	21.10	21.02	21.01
10	16QAM	1	49	21.03	21.06	21.10
10	16QAM	25	0	20.25	20.15	20.21
10	16QAM	25	12	20.04	20.07	20.11
10	16QAM	25	25	20.01	20.04	20.00
10	16QAM	50	0	20.06	20.08	20.01



LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	22.10	22.06	22.08
5	QPSK	1	12	22.07	22.09	22.05
5	QPSK	1	24	22.07	22.03	22.02
5	QPSK	12	0	21.02	21.02	21.05
5	QPSK	12	7	21.10	21.10	21.09
5	QPSK	12	13	21.07	21.06	21.10
5	QPSK	25	0	21.10	21.08	21.04
5	16QAM	1	0	21.17	21.29	21.09
5	16QAM	1	12	21.01	21.04	21.03
5	16QAM	1	24	21.05	21.08	21.01
5	16QAM	12	0	20.16	20.06	20.12
5	16QAM	12	7	20.06	20.09	20.02
5	16QAM	12	13	20.03	20.06	20.02
5	16QAM	25	0	20.08	20.10	20.03

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

LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	22.14	0.164	22.18	0.165	22.09	0.162
20	QPSK	1	49	22.06	0.161	22.13	0.163	21.92	0.156
20	QPSK	1	99	22.01	0.159	22.02	0.159	21.86	0.153
20	QPSK	50	0	21.03	0.127	21.06	0.128	21.00	0.126
20	QPSK	50	24	20.97	0.125	21.02	0.126	20.93	0.124
20	QPSK	50	50	20.86	0.122	20.88	0.122	20.80	0.120
20	QPSK	100	0	20.91	0.123	20.94	0.124	20.87	0.122
20	16QAM	1	0	21.17	0.131	21.23	0.133	21.11	0.129
20	16QAM	1	49	21.06	0.128	21.07	0.128	21.01	0.126
20	16QAM	1	99	20.93	0.124	20.99	0.126	20.91	0.123
20	16QAM	50	0	20.14	0.103	20.22	0.105	20.09	0.102
20	16QAM	50	24	20.06	0.101	20.09	0.102	20.01	0.100
20	16QAM	50	50	19.97	0.099	20.00	0.100	19.94	0.099
20	16QAM	100	0	19.91	0.098	19.92	0.098	19.88	0.097



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	22.09	0.162	22.14	0.164	22.01	0.159
15	QPSK	1	37	22.03	0.160	22.06	0.161	21.96	0.157
15	QPSK	1	74	21.98	0.158	21.97	0.157	21.82	0.152
15	QPSK	36	0	21.07	0.128	21.01	0.126	21.03	0.127
15	QPSK	36	20	20.89	0.123	20.97	0.125	20.99	0.126
15	QPSK	36	39	20.96	0.125	20.86	0.122	20.84	0.121
15	QPSK	75	0	20.92	0.124	20.89	0.123	20.76	0.119
15	16QAM	1	0	21.16	0.131	21.11	0.129	21.04	0.127
15	16QAM	1	37	21.11	0.129	20.99	0.126	20.86	0.122
15	16QAM	1	74	20.96	0.125	20.95	0.124	20.79	0.120
15	16QAM	36	0	20.20	0.105	20.23	0.105	20.15	0.104
15	16QAM	36	20	20.05	0.101	20.12	0.103	19.99	0.100
15	16QAM	36	39	20.07	0.102	19.91	0.098	19.84	0.096
15	16QAM	75	0	19.90	0.098	19.92	0.098	19.91	0.098



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	22.07	0.161	22.11	0.163	22.06	0.161
10	QPSK	1	25	22.01	0.159	22.07	0.161	21.97	0.157
10	QPSK	1	49	21.93	0.156	22.04	0.160	21.89	0.155
10	QPSK	25	0	20.94	0.124	20.91	0.123	20.91	0.123
10	QPSK	25	12	21.00	0.126	20.95	0.124	21.03	0.127
10	QPSK	25	25	20.81	0.121	20.94	0.124	20.67	0.117
10	QPSK	50	0	20.86	0.122	20.91	0.123	20.74	0.119
10	16QAM	1	0	21.19	0.132	21.23	0.133	21.08	0.128
10	16QAM	1	25	21.09	0.129	21.12	0.129	20.95	0.124
10	16QAM	1	49	21.03	0.127	20.92	0.124	20.87	0.122
10	16QAM	25	0	20.22	0.105	20.11	0.103	20.17	0.104
10	16QAM	25	12	20.00	0.100	20.01	0.100	19.99	0.100
10	16QAM	25	25	20.01	0.100	19.89	0.097	19.95	0.099
10	16QAM	50	0	19.97	0.099	20.02	0.100	19.95	0.099



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	22.05	0.160	22.13	0.163	22.00	0.158
5	QPSK	1	12	21.97	0.157	22.02	0.159	21.95	0.157
5	QPSK	1	24	22.03	0.160	22.02	0.159	21.81	0.152
5	QPSK	12	0	21.07	0.128	20.92	0.124	21.01	0.126
5	QPSK	12	7	21.04	0.127	20.88	0.122	21.03	0.127
5	QPSK	12	13	20.84	0.121	20.77	0.119	20.85	0.122
5	QPSK	25	0	20.92	0.124	20.98	0.125	20.85	0.122
5	16QAM	1	0	21.07	0.128	21.16	0.131	20.97	0.125
5	16QAM	1	12	20.98	0.125	21.01	0.126	20.94	0.124
5	16QAM	1	24	20.88	0.122	20.85	0.122	20.79	0.120
5	16QAM	12	0	19.99	0.100	20.11	0.103	20.15	0.104
5	16QAM	12	7	19.96	0.099	19.98	0.100	19.95	0.099
5	16QAM	12	13	20.05	0.101	20.02	0.100	19.82	0.096
5	16QAM	25	0	19.88	0.097	19.84	0.096	19.95	0.099



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	22.01	0.159	22.15	0.164	22.04	0.160
3	QPSK	1	8	21.97	0.157	22.00	0.158	21.97	0.157
3	QPSK	1	14	21.91	0.155	21.94	0.156	21.94	0.156
3	QPSK	8	0	21.12	0.129	21.14	0.130	20.99	0.126
3	QPSK	8	4	21.03	0.127	21.01	0.126	20.88	0.122
3	QPSK	8	7	20.96	0.125	20.88	0.122	20.82	0.121
3	QPSK	15	0	20.83	0.121	20.79	0.120	20.76	0.119
3	16QAM	1	0	21.12	0.129	21.18	0.131	20.97	0.125
3	16QAM	1	8	20.96	0.125	21.06	0.128	20.89	0.123
3	16QAM	1	14	20.89	0.123	20.86	0.122	20.87	0.122
3	16QAM	8	0	20.12	0.103	20.17	0.104	19.95	0.099
3	16QAM	8	4	19.95	0.099	20.05	0.101	19.93	0.098
3	16QAM	8	7	19.92	0.098	20.09	0.102	19.82	0.096
3	16QAM	15	0	20.00	0.100	19.99	0.100	19.82	0.096



LTE Band 2				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	22.05	0.160	22.12	0.163	22.07	0.161
1.4	QPSK	1	3	22.00	0.158	22.10	0.162	21.82	0.152
1.4	QPSK	1	5	21.90	0.155	21.96	0.157	21.94	0.156
1.4	QPSK	3	0	20.94	0.124	21.15	0.130	20.96	0.125
1.4	QPSK	3	1	21.02	0.126	20.95	0.124	21.01	0.126
1.4	QPSK	3	3	20.96	0.125	20.97	0.125	20.93	0.124
1.4	QPSK	6	0	20.97	0.125	20.96	0.125	20.75	0.119
1.4	16QAM	1	0	21.19	0.132	21.19	0.132	21.07	0.128
1.4	16QAM	1	3	21.11	0.129	20.98	0.125	20.98	0.125
1.4	16QAM	1	5	20.88	0.122	20.97	0.125	20.93	0.124
1.4	16QAM	3	0	20.04	0.101	20.16	0.104	20.00	0.100
1.4	16QAM	3	1	20.03	0.101	20.05	0.101	19.94	0.099
1.4	16QAM	3	3	20.03	0.101	20.00	0.100	20.03	0.101
1.4	16QAM	6	0	19.97	0.099	19.84	0.096	19.77	0.095



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	19.55	0.090	19.60	0.091	19.56	0.090
20	QPSK	1	49	19.53	0.090	19.46	0.088	19.42	0.087
20	QPSK	1	99	19.48	0.089	19.55	0.090	19.50	0.089
20	QPSK	50	0	18.52	0.071	18.55	0.072	18.51	0.071
20	QPSK	50	24	18.38	0.069	18.40	0.069	18.32	0.068
20	QPSK	50	50	18.30	0.068	18.39	0.069	18.41	0.069
20	QPSK	100	0	18.36	0.069	18.50	0.071	18.38	0.069
20	16QAM	1	0	18.60	0.072	18.71	0.074	18.62	0.073
20	16QAM	1	49	18.41	0.069	18.52	0.071	18.42	0.070
20	16QAM	1	99	18.37	0.069	18.54	0.071	18.43	0.070
20	16QAM	50	0	17.47	0.056	17.61	0.058	17.39	0.055
20	16QAM	50	24	17.54	0.057	17.57	0.057	17.41	0.055
20	16QAM	50	50	17.46	0.056	17.32	0.054	17.35	0.054
20	16QAM	100	0	17.33	0.054	17.36	0.054	17.24	0.053



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	19.46	0.088	19.57	0.091	19.54	0.090
15	QPSK	1	37	19.38	0.087	19.45	0.088	19.42	0.087
15	QPSK	1	74	19.33	0.086	19.48	0.089	19.44	0.088
15	QPSK	36	0	18.47	0.070	18.53	0.071	18.49	0.071
15	QPSK	36	20	18.29	0.067	18.41	0.069	18.30	0.068
15	QPSK	36	39	18.34	0.068	18.37	0.069	18.34	0.068
15	QPSK	75	0	18.38	0.069	18.42	0.070	18.33	0.068
15	16QAM	1	0	18.59	0.072	18.54	0.071	18.51	0.071
15	16QAM	1	37	18.39	0.069	18.53	0.071	18.44	0.070
15	16QAM	1	74	18.44	0.070	18.46	0.070	18.35	0.068
15	16QAM	36	0	17.41	0.055	17.56	0.057	17.45	0.056
15	16QAM	36	20	17.49	0.056	17.59	0.057	17.36	0.054
15	16QAM	36	39	17.49	0.056	17.28	0.053	17.34	0.054
15	16QAM	75	0	17.19	0.052	17.20	0.052	17.30	0.054



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	19.49	0.089	19.54	0.090	19.51	0.089
10	QPSK	1	25	19.42	0.087	19.45	0.088	19.42	0.087
10	QPSK	1	49	19.45	0.088	19.44	0.088	19.38	0.087
10	QPSK	25	0	18.34	0.068	18.34	0.068	18.31	0.068
10	QPSK	25	12	18.43	0.070	18.44	0.070	18.44	0.070
10	QPSK	25	25	18.38	0.069	18.28	0.067	18.23	0.067
10	QPSK	50	0	18.27	0.067	18.38	0.069	18.20	0.066
10	16QAM	1	0	18.46	0.070	18.68	0.074	18.54	0.071
10	16QAM	1	25	18.41	0.069	18.37	0.069	18.49	0.071
10	16QAM	1	49	18.36	0.069	18.36	0.069	18.40	0.069
10	16QAM	25	0	17.52	0.056	17.64	0.058	17.57	0.057
10	16QAM	25	12	17.39	0.055	17.52	0.056	17.35	0.054
10	16QAM	25	25	17.39	0.055	17.38	0.055	17.33	0.054
10	16QAM	50	0	17.40	0.055	17.37	0.055	17.29	0.054



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	19.50	0.089	19.55	0.090	19.52	0.090
5	QPSK	1	12	19.35	0.086	19.52	0.090	19.43	0.088
5	QPSK	1	24	19.30	0.085	19.35	0.086	19.34	0.086
5	QPSK	12	0	18.38	0.069	18.48	0.070	18.46	0.070
5	QPSK	12	7	18.28	0.067	18.45	0.070	18.24	0.067
5	QPSK	12	13	18.31	0.068	18.38	0.069	18.31	0.068
5	QPSK	25	0	18.23	0.067	18.43	0.070	18.23	0.067
5	16QAM	1	0	18.47	0.070	18.59	0.072	18.59	0.072
5	16QAM	1	12	18.51	0.071	18.57	0.072	18.34	0.068
5	16QAM	1	24	18.27	0.067	18.46	0.070	18.23	0.067
5	16QAM	12	0	17.44	0.055	17.71	0.059	17.51	0.056
5	16QAM	12	7	17.38	0.055	17.39	0.055	17.40	0.055
5	16QAM	12	13	17.43	0.055	17.51	0.056	17.43	0.055
5	16QAM	25	0	17.26	0.053	17.24	0.053	17.29	0.054



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	19.46	0.088	19.53	0.090	19.39	0.087
3	QPSK	1	8	19.34	0.086	19.50	0.089	19.36	0.086
3	QPSK	1	14	19.40	0.087	19.41	0.087	19.33	0.086
3	QPSK	8	0	18.33	0.068	18.39	0.069	18.27	0.067
3	QPSK	8	4	18.46	0.070	18.39	0.069	18.22	0.066
3	QPSK	8	7	18.31	0.068	18.21	0.066	18.24	0.067
3	QPSK	15	0	18.34	0.068	18.35	0.068	18.28	0.067
3	16QAM	1	0	18.53	0.071	18.66	0.073	18.45	0.070
3	16QAM	1	8	18.49	0.071	18.49	0.071	18.31	0.068
3	16QAM	1	14	18.26	0.067	18.46	0.070	18.37	0.069
3	16QAM	8	0	17.65	0.058	17.61	0.058	17.59	0.057
3	16QAM	8	4	17.53	0.057	17.52	0.056	17.40	0.055
3	16QAM	8	7	17.25	0.053	17.51	0.056	17.39	0.055
3	16QAM	15	0	17.31	0.054	17.39	0.055	17.23	0.053



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	19.20	0.083	19.24	0.084	19.20	0.083
1.4	QPSK	1	3	19.19	0.083	19.19	0.083	19.05	0.080
1.4	QPSK	1	5	19.06	0.081	19.09	0.081	19.08	0.081
1.4	QPSK	3	0	18.47	0.070	18.33	0.068	18.33	0.068
1.4	QPSK	3	1	18.54	0.071	18.48	0.070	18.34	0.068
1.4	QPSK	3	3	18.45	0.070	18.57	0.072	18.46	0.070
1.4	QPSK	6	0	17.96	0.063	17.99	0.063	18.04	0.064
1.4	16QAM	1	0	18.15	0.065	18.26	0.067	18.15	0.065
1.4	16QAM	1	3	18.17	0.066	18.23	0.067	18.10	0.065
1.4	16QAM	1	5	17.90	0.062	18.12	0.065	18.08	0.064
1.4	16QAM	3	0	17.58	0.057	17.60	0.058	17.52	0.056
1.4	16QAM	3	1	17.58	0.057	17.51	0.056	17.61	0.058
1.4	16QAM	3	3	17.61	0.058	17.40	0.055	17.33	0.054
1.4	16QAM	6	0	17.10	0.051	17.07	0.051	17.06	0.051



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	20.79	0.120	20.84	0.121	20.77	0.119
10	QPSK	1	25	20.76	0.119	20.78	0.120	20.63	0.116
10	QPSK	1	49	20.65	0.116	20.72	0.118	20.60	0.115
10	QPSK	25	0	19.71	0.094	19.82	0.096	19.63	0.092
10	QPSK	25	12	19.68	0.093	19.57	0.091	19.67	0.093
10	QPSK	25	25	19.65	0.092	19.64	0.092	19.57	0.091
10	QPSK	50	0	19.57	0.091	19.66	0.092	19.62	0.092
10	16QAM	1	0	19.97	0.099	20.09	0.102	19.78	0.095
10	16QAM	1	25	19.81	0.096	19.73	0.094	19.72	0.094
10	16QAM	1	49	19.74	0.094	19.77	0.095	19.59	0.091
10	16QAM	25	0	18.96	0.079	18.86	0.077	18.92	0.078
10	16QAM	25	12	18.75	0.075	18.78	0.076	18.82	0.076
10	16QAM	25	25	18.72	0.074	18.64	0.073	18.60	0.072
10	16QAM	50	0	18.66	0.073	18.57	0.072	18.72	0.074



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	20.70	0.117	20.75	0.119	20.68	0.117
5	QPSK	1	12	20.67	0.117	20.69	0.117	20.54	0.113
5	QPSK	1	24	20.56	0.114	20.63	0.116	20.51	0.112
5	QPSK	12	0	19.62	0.092	19.73	0.094	19.54	0.090
5	QPSK	12	7	19.59	0.091	19.48	0.089	19.58	0.091
5	QPSK	12	13	19.56	0.090	19.55	0.090	19.48	0.089
5	QPSK	25	0	19.48	0.089	19.57	0.091	19.53	0.090
5	16QAM	1	0	19.88	0.097	20.00	0.100	19.69	0.093
5	16QAM	1	12	19.72	0.094	19.64	0.092	19.63	0.092
5	16QAM	1	24	19.65	0.092	19.68	0.093	19.50	0.089
5	16QAM	12	0	18.87	0.077	18.77	0.075	18.83	0.076
5	16QAM	12	7	18.66	0.073	18.69	0.074	18.73	0.075
5	16QAM	12	13	18.63	0.073	18.55	0.072	18.51	0.071
5	16QAM	25	0	18.57	0.072	18.48	0.070	18.63	0.073



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	20.61	0.115	20.66	0.116	20.59	0.115
3	QPSK	1	8	20.58	0.114	20.60	0.115	20.45	0.111
3	QPSK	1	14	20.47	0.111	20.54	0.113	20.42	0.110
3	QPSK	8	0	19.53	0.090	19.64	0.092	19.45	0.088
3	QPSK	8	4	19.50	0.089	19.39	0.087	19.49	0.089
3	QPSK	8	7	19.47	0.089	19.46	0.088	19.39	0.087
3	QPSK	15	0	19.39	0.087	19.48	0.089	19.44	0.088
3	16QAM	1	0	19.79	0.095	19.91	0.098	19.60	0.091
3	16QAM	1	8	19.63	0.092	19.55	0.090	19.54	0.090
3	16QAM	1	14	19.56	0.090	19.59	0.091	19.41	0.087
3	16QAM	8	0	18.78	0.076	18.68	0.074	18.74	0.075
3	16QAM	8	4	18.57	0.072	18.60	0.072	18.64	0.073
3	16QAM	8	7	18.54	0.071	18.46	0.070	18.42	0.070
3	16QAM	15	0	18.48	0.070	18.39	0.069	18.54	0.071



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	20.52	0.113	20.57	0.114	20.50	0.112
1.4	QPSK	1	3	20.49	0.112	20.51	0.112	20.36	0.109
1.4	QPSK	1	5	20.38	0.109	20.45	0.111	20.33	0.108
1.4	QPSK	3	0	20.04	0.101	20.15	0.104	19.96	0.099
1.4	QPSK	3	1	20.01	0.100	19.90	0.098	20.00	0.100
1.4	QPSK	3	3	19.98	0.100	19.97	0.099	19.90	0.098
1.4	QPSK	6	0	19.30	0.085	19.39	0.087	19.35	0.086
1.4	16QAM	1	0	19.70	0.093	19.82	0.096	19.51	0.089
1.4	16QAM	1	3	19.54	0.090	19.46	0.088	19.45	0.088
1.4	16QAM	1	5	19.47	0.089	19.50	0.089	19.32	0.086
1.4	16QAM	3	0	19.29	0.085	19.19	0.083	19.25	0.084
1.4	16QAM	3	1	19.08	0.081	19.11	0.081	19.15	0.082
1.4	16QAM	3	3	19.05	0.080	18.97	0.079	18.93	0.078
1.4	16QAM	6	0	18.39	0.069	18.30	0.068	18.45	0.070



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	21.84	0.153	21.91	0.155	21.82	0.152
20	QPSK	1	49	21.81	0.152	21.83	0.152	21.68	0.147
20	QPSK	1	99	21.70	0.148	21.77	0.150	21.65	0.146
20	QPSK	50	0	20.76	0.119	20.87	0.122	20.68	0.117
20	QPSK	50	24	20.73	0.118	20.62	0.115	20.72	0.118
20	QPSK	50	50	20.70	0.117	20.69	0.117	20.62	0.115
20	QPSK	100	0	20.62	0.115	20.71	0.118	20.67	0.117
20	16QAM	1	0	21.02	0.126	21.14	0.130	20.83	0.121
20	16QAM	1	49	20.86	0.122	20.78	0.120	20.77	0.119
20	16QAM	1	99	20.79	0.120	20.82	0.121	20.64	0.116
20	16QAM	50	0	20.01	0.100	19.91	0.098	19.97	0.099
20	16QAM	50	24	19.80	0.095	19.83	0.096	19.87	0.097
20	16QAM	50	50	19.77	0.095	19.69	0.093	19.65	0.092
20	16QAM	100	0	19.71	0.094	19.62	0.092	19.77	0.095



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	21.75	0.150	21.82	0.152	21.73	0.149
15	QPSK	1	37	21.72	0.149	21.74	0.149	21.59	0.144
15	QPSK	1	74	21.61	0.145	21.68	0.147	21.56	0.143
15	QPSK	36	0	20.67	0.117	20.78	0.120	20.59	0.115
15	QPSK	36	20	20.64	0.116	20.74	0.119	20.63	0.116
15	QPSK	36	39	20.61	0.115	20.60	0.115	20.61	0.115
15	QPSK	75	0	20.56	0.114	20.62	0.115	20.58	0.114
15	16QAM	1	0	20.93	0.124	21.05	0.127	20.74	0.119
15	16QAM	1	37	20.77	0.119	20.69	0.117	20.68	0.117
15	16QAM	1	74	20.70	0.117	20.73	0.118	20.74	0.119
15	16QAM	36	0	19.92	0.098	19.82	0.096	19.88	0.097
15	16QAM	36	20	19.71	0.094	19.74	0.094	19.78	0.095
15	16QAM	36	39	19.68	0.093	19.60	0.091	19.56	0.090
15	16QAM	75	0	19.62	0.092	19.59	0.091	19.68	0.093



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	21.64	0.146	21.71	0.148	21.62	0.145
10	QPSK	1	25	21.61	0.145	21.63	0.146	21.59	0.144
10	QPSK	1	49	21.61	0.145	21.57	0.144	21.56	0.143
10	QPSK	25	0	20.56	0.114	20.67	0.117	20.59	0.115
10	QPSK	25	12	20.64	0.116	20.64	0.116	20.63	0.116
10	QPSK	25	25	20.61	0.115	20.60	0.115	20.64	0.116
10	QPSK	50	0	20.64	0.116	20.62	0.115	20.58	0.114
10	16QAM	1	0	20.82	0.121	20.94	0.124	20.63	0.116
10	16QAM	1	25	20.66	0.116	20.58	0.114	20.57	0.114
10	16QAM	1	49	20.59	0.115	20.62	0.115	20.66	0.116
10	16QAM	25	0	19.81	0.096	19.71	0.094	19.77	0.095
10	16QAM	25	12	19.60	0.091	19.63	0.092	19.67	0.093
10	16QAM	25	25	19.57	0.091	19.60	0.091	19.56	0.090
10	16QAM	50	0	19.62	0.092	19.64	0.092	19.57	0.091



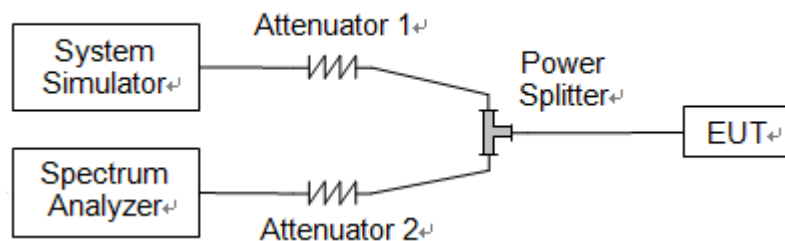
LTE Band 7				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.66	0.147	21.62	0.145	21.64	0.146
5	QPSK	1	12	21.63	0.146	21.65	0.146	21.61	0.145
5	QPSK	1	24	21.63	0.146	21.59	0.144	21.58	0.144
5	QPSK	12	0	20.58	0.114	20.58	0.114	20.61	0.115
5	QPSK	12	7	20.66	0.116	20.66	0.116	20.65	0.116
5	QPSK	12	13	20.63	0.116	20.62	0.115	20.66	0.116
5	QPSK	25	0	20.66	0.116	20.64	0.116	20.60	0.115
5	16QAM	1	0	20.73	0.118	20.85	0.122	20.65	0.116
5	16QAM	1	12	20.57	0.114	20.60	0.115	20.59	0.115
5	16QAM	1	24	20.61	0.115	20.64	0.116	20.57	0.114
5	16QAM	12	0	19.72	0.094	19.62	0.092	19.68	0.093
5	16QAM	12	7	19.62	0.092	19.65	0.092	19.58	0.091
5	16QAM	12	13	19.59	0.091	19.62	0.092	19.58	0.091
5	16QAM	25	0	19.64	0.092	19.66	0.092	19.59	0.091

2.2. Occupied Bandwidth

2.2.1. Requirement

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

2.2.2. Test Description



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

2.2.3. Test Procedure

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



Test Result

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	1.0928	1.2461	PASS
B2	1.4	Low	18607	1850.7	16QAM	1.0967	1.2475	PASS
B2	1.4	Mid	18900	1880	QPSK	1.0972	1.2510	PASS
B2	1.4	Mid	18900	1880	16QAM	1.1020	1.2522	PASS
B2	1.4	High	19193	1909.3	QPSK	1.0969	1.2523	PASS
B2	1.4	High	19193	1909.3	16QAM	1.1015	1.2497	PASS
B2	3	Low	18615	1851.5	QPSK	2.7188	3.0385	PASS
B2	3	Low	18615	1851.5	16QAM	2.7177	3.0474	PASS
B2	3	Mid	18900	1880	QPSK	2.7182	3.0500	PASS
B2	3	Mid	18900	1880	16QAM	2.7087	3.0677	PASS
B2	3	High	19185	1908.5	QPSK	2.7125	3.0431	PASS
B2	3	High	19185	1908.5	16QAM	2.7081	3.0565	PASS
B2	5	Low	18625	1852.5	QPSK	4.4846	4.9260	PASS
B2	5	Low	18625	1852.5	16QAM	4.4907	4.9505	PASS
B2	5	Mid	18900	1880	QPSK	4.4899	4.9139	PASS
B2	5	Mid	18900	1880	16QAM	4.4854	4.9296	PASS
B2	5	High	19175	1907.5	QPSK	4.4866	4.9287	PASS
B2	5	High	19175	1907.5	16QAM	4.4835	4.9392	PASS
B2	10	Low	18650	1855	QPSK	8.9698	9.7997	PASS
B2	10	Low	18650	1855	16QAM	8.9666	9.7976	PASS
B2	10	Mid	18900	1880	QPSK	8.9773	9.8519	PASS
B2	10	Mid	18900	1880	16QAM	8.9524	9.7394	PASS
B2	10	High	19150	1905	QPSK	8.9774	9.7855	PASS
B2	10	High	19150	1905	16QAM	8.9572	9.7797	PASS
B2	15	Low	18675	1857.5	QPSK	13.455	14.836	PASS
B2	15	Low	18675	1857.5	16QAM	13.451	14.774	PASS
B2	15	Mid	18900	1880	QPSK	13.443	14.734	PASS
B2	15	Mid	18900	1880	16QAM	13.451	14.875	PASS
B2	15	High	19125	1902.5	QPSK	13.455	14.749	PASS
B2	15	High	19125	1902.5	16QAM	13.450	14.843	PASS
B2	20	Low	18700	1860	QPSK	17.927	19.421	PASS
B2	20	Low	18700	1860	16QAM	17.940	19.468	PASS
B2	20	Mid	18900	1880	QPSK	17.960	19.710	PASS



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B2	20	Mid	18900	1880	16QAM	17.956	19.556	PASS
B2	20	High	19100	1900	QPSK	17.934	19.668	PASS
B2	20	High	19100	1900	16QAM	17.948	19.682	PASS
B4	1.4	Low	19957	1710.7	QPSK	1.0987	1.2537	PASS
B4	1.4	Low	19957	1710.7	16QAM	1.1030	1.2485	PASS
B4	1.4	Mid	20175	1732.5	QPSK	1.0981	1.2475	PASS
B4	1.4	Mid	20175	1732.5	16QAM	1.1006	1.2553	PASS
B4	1.4	High	20393	1754.3	QPSK	1.0977	1.2493	PASS
B4	1.4	High	20393	1754.3	16QAM	1.1005	1.2634	PASS
B4	3	Low	19965	1711.5	QPSK	2.7134	3.0467	PASS
B4	3	Low	19965	1711.5	16QAM	2.7142	3.0515	PASS
B4	3	Mid	20175	1732.5	QPSK	2.7162	3.0438	PASS
B4	3	Mid	20175	1732.5	16QAM	2.7134	3.0621	PASS
B4	3	High	20385	1753.5	QPSK	2.7168	3.0351	PASS
B4	3	High	20385	1753.5	16QAM	2.7228	3.0484	PASS
B4	5	Low	19975	1712.5	QPSK	4.4807	4.9489	PASS
B4	5	Low	19975	1712.5	16QAM	4.4876	4.9264	PASS
B4	5	Mid	20175	1732.5	QPSK	4.4772	4.9446	PASS
B4	5	Mid	20175	1732.5	16QAM	4.4888	4.9526	PASS
B4	5	High	20375	1752.5	QPSK	4.4864	4.9601	PASS
B4	5	High	20375	1752.5	16QAM	4.4959	4.9497	PASS
B4	10	Low	20000	1715	QPSK	8.9731	9.8367	PASS
B4	10	Low	20000	1715	16QAM	8.9649	9.7371	PASS
B4	10	Mid	20175	1732.5	QPSK	8.9852	9.8764	PASS
B4	10	Mid	20175	1732.5	16QAM	8.9619	9.7645	PASS
B4	10	High	20350	1750	QPSK	9.0043	9.8462	PASS
B4	10	High	20350	1750	16QAM	8.9477	9.7615	PASS
B4	15	Low	20025	1717.5	QPSK	13.440	14.911	PASS
B4	15	Low	20025	1717.5	16QAM	13.451	14.821	PASS
B4	15	Mid	20175	1732.5	QPSK	13.451	14.730	PASS
B4	15	Mid	20175	1732.5	16QAM	13.464	14.867	PASS
B4	15	High	20325	1747.5	QPSK	13.473	14.745	PASS
B4	15	High	20325	1747.5	16QAM	13.458	14.881	PASS
B4	20	Low	20050	1720	QPSK	17.942	19.530	PASS
B4	20	Low	20050	1720	16QAM	17.937	19.741	PASS
B4	20	Mid	20175	1732.5	QPSK	17.947	19.671	PASS
B4	20	Mid	20175	1732.5	16QAM	17.979	19.523	PASS
B4	20	High	20300	1745	QPSK	17.934	19.640	PASS



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B4	20	High	20300	1745	16QAM	17.983	19.610	PASS
B5	1.4	Low	20407	824.7	QPSK	1.0948	1.2493	PASS
B5	1.4	Low	20407	824.7	16QAM	1.0989	1.2618	PASS
B5	1.4	Mid	20525	836.5	QPSK	1.0976	1.2434	PASS
B5	1.4	Mid	20525	836.5	16QAM	1.0998	1.2354	PASS
B5	1.4	High	20643	848.3	QPSK	1.0964	1.2457	PASS
B5	1.4	High	20643	848.3	16QAM	1.1028	1.2591	PASS
B5	3	Low	20415	825.5	QPSK	2.7191	3.0269	PASS
B5	3	Low	20415	825.5	16QAM	2.7126	3.0416	PASS
B5	3	Mid	20525	836.5	QPSK	2.7124	3.0464	PASS
B5	3	Mid	20525	836.5	16QAM	2.7055	3.0409	PASS
B5	3	High	20635	847.5	QPSK	2.7215	3.0375	PASS
B5	3	High	20635	847.5	16QAM	2.7069	3.0454	PASS
B5	5	Low	20425	826.5	QPSK	4.4845	4.9429	PASS
B5	5	Low	20425	826.5	16QAM	4.4827	4.9068	PASS
B5	5	Mid	20525	836.5	QPSK	4.4836	4.9219	PASS
B5	5	Mid	20525	836.5	16QAM	4.4827	4.9330	PASS
B5	5	High	20625	846.5	QPSK	4.5038	6.9389	PASS
B5	5	High	20625	846.5	16QAM	4.4882	4.9503	PASS
B5	10	Low	20450	829	QPSK	8.9908	9.8481	PASS
B5	10	Low	20450	829	16QAM	8.9478	9.7898	PASS
B5	10	Mid	20525	836.5	QPSK	8.9878	9.8145	PASS
B5	10	Mid	20525	836.5	16QAM	8.9585	9.7444	PASS
B5	10	High	20600	844	QPSK	8.9720	9.8984	PASS
B5	10	High	20600	844	16QAM	8.9537	9.7890	PASS
B7	5	Low	20775	2502.5	QPSK	4.4870	4.9354	PASS
B7	5	Low	20775	2502.5	16QAM	4.4938	4.9420	PASS
B7	5	Mid	21100	2535	QPSK	4.4840	4.9461	PASS
B7	5	Mid	21100	2535	16QAM	4.4894	4.9598	PASS
B7	5	High	21425	2567.5	QPSK	4.4946	4.9379	PASS
B7	5	High	21425	2567.5	16QAM	4.4920	4.9578	PASS
B7	10	Low	20800	2505	QPSK	8.9692	9.7338	PASS
B7	10	Low	20800	2505	16QAM	8.9631	9.7527	PASS
B7	10	Mid	21100	2535	QPSK	8.9880	9.8618	PASS
B7	10	Mid	21100	2535	16QAM	8.9492	9.7354	PASS
B7	10	High	21400	2565	QPSK	8.9968	9.8180	PASS
B7	10	High	21400	2565	16QAM	8.9845	9.8535	PASS
B7	15	Low	20825	2507.5	QPSK	13.465	14.827	PASS



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B7	15	Low	20825	2507.5	16QAM	13.457	14.919	PASS
B7	15	Mid	21100	2535	QPSK	13.437	14.747	PASS
B7	15	Mid	21100	2535	16QAM	13.455	14.915	PASS
B7	15	High	21375	2562.5	QPSK	13.501	14.827	PASS
B7	15	High	21375	2562.5	16QAM	13.487	15.057	PASS
B7	20	Low	20850	2510	QPSK	17.915	19.521	PASS
B7	20	Low	20850	2510	16QAM	17.971	19.476	PASS
B7	20	Mid	21100	2535	QPSK	17.934	19.486	PASS
B7	20	Mid	21100	2535	16QAM	17.922	19.583	PASS
B7	20	High	21350	2560	QPSK	17.981	19.722	PASS
B7	20	High	21350	2560	16QAM	17.992	19.785	PASS



B2 / 1.4MHz / QPSK/ Low CH



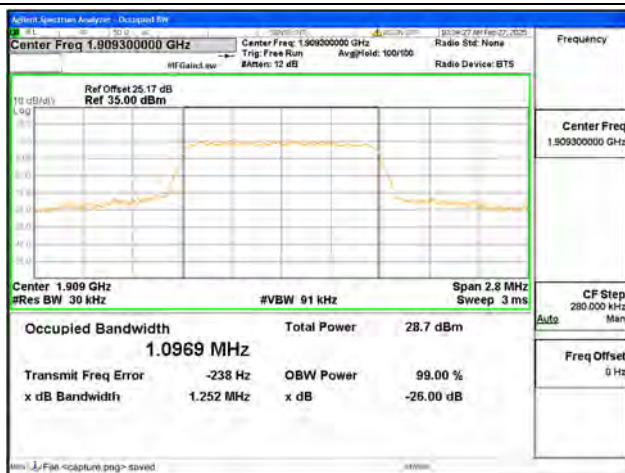
B2 / 1.4MHz / 16QAM/ Low CH



B2 / 1.4MHz / QPSK/ Mid CH



B2 / 1.4MHz / 16QAM/ Mid CH



B2 / 1.4MHz / QPSK/ High CH



B2 / 1.4MHz / 16QAM/ High CH



B2 / 3MHz / QPSK/ Low CH



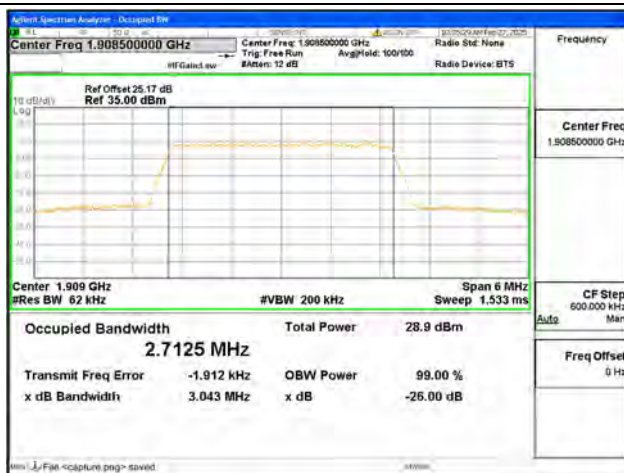
B2 / 3MHz / 16QAM/ Low CH



B2 / 3MHz / QPSK/ Mid CH



B2 / 3MHz / 16QAM/ Mid CH



B2 / 3MHz / QPSK/ High CH



B2 / 3MHz / 16QAM/ High CH



B2 / 5MHz / QPSK/ Low CH



B2 / 5MHz / 16QAM/ Low CH



B2 / 5MHz / QPSK/ Mid CH



B2 / 5MHz / 16QAM/ Mid CH



B2 / 5MHz / QPSK/ High CH



B2 / 5MHz / 16QAM/ High CH



B2 / 10MHz / QPSK/ Low CH



B2 / 10MHz / 16QAM/ Low CH



B2 / 10MHz / QPSK/ Mid CH



B2 / 10MHz / 16QAM/ Mid CH



B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 16QAM/ High CH



B2 / 15MHz / QPSK/ Low CH



B2 / 15MHz / 16QAM/ Low CH



B2 / 15MHz / QPSK/ Mid CH



B2 / 15MHz / 16QAM/ Mid CH



B2 / 15MHz / QPSK/ High CH



B2 / 15MHz / 16QAM/ High CH



B2 / 20MHz / QPSK/ Low CH



B2 / 20MHz / 16QAM/ Low CH



B2 / 20MHz / QPSK/ Mid CH



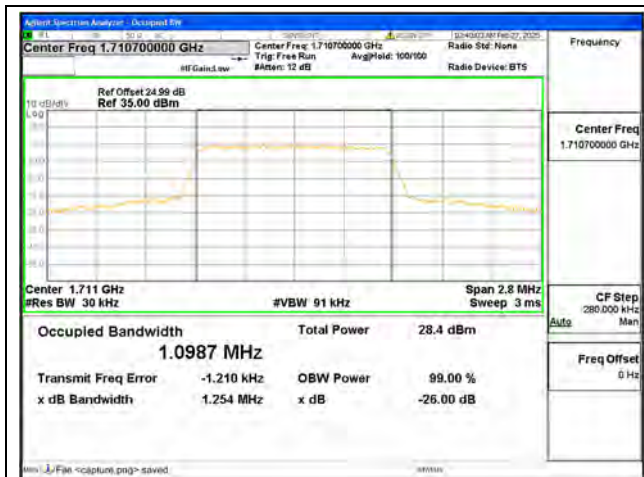
B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / QPSK/ High CH



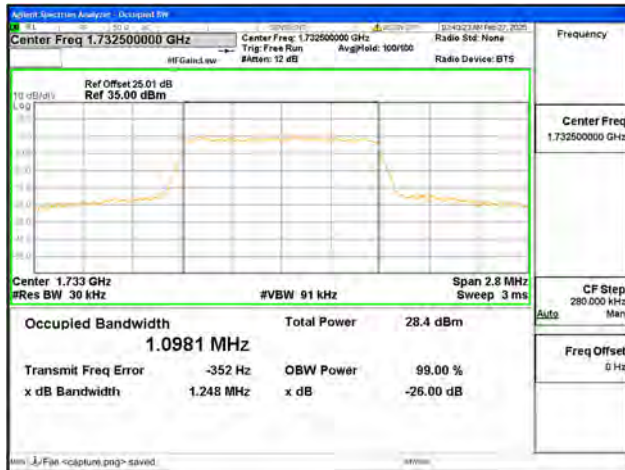
B2 / 20MHz / 16QAM/ High CH



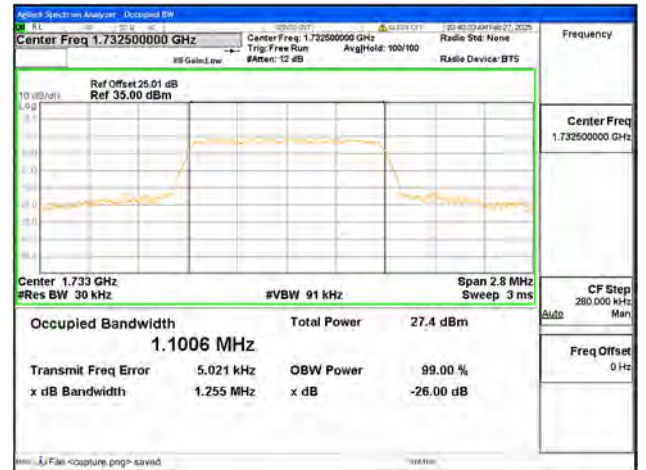
B4 / 1.4MHz / QPSK/ Low CH



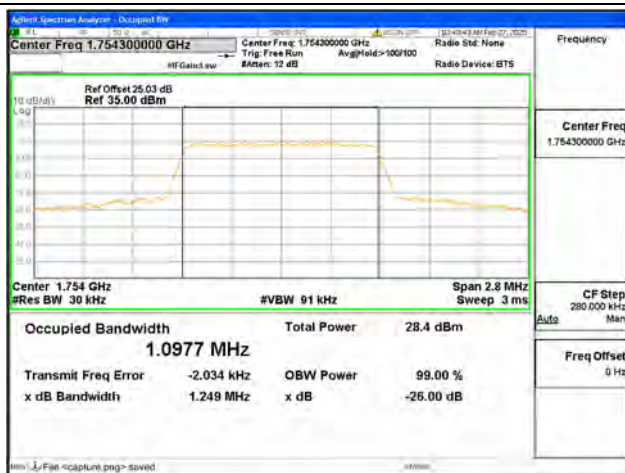
B4 / 1.4MHz / 16QAM/ Low CH



B4 / 1.4MHz / QPSK/ Mid CH



B4 / 1.4MHz / 16QAM/ Mid CH



B4 / 1.4MHz / QPSK/ High CH



B4 / 1.4MHz / 16QAM/ High CH



B4 / 3MHz / QPSK/ Low CH



B4 / 3MHz / 16QAM/ Low CH



B4 / 3MHz / QPSK/ Mid CH



B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH



B4 / 3MHz / 16QAM/ High CH



B4 / 5MHz / QPSK/ Low CH



B4 / 5MHz / 16QAM/ Low CH



B4 / 5MHz / QPSK/ Mid CH



B4 / 5MHz / 16QAM/ Mid CH



B4 / 5MHz / QPSK/ High CH



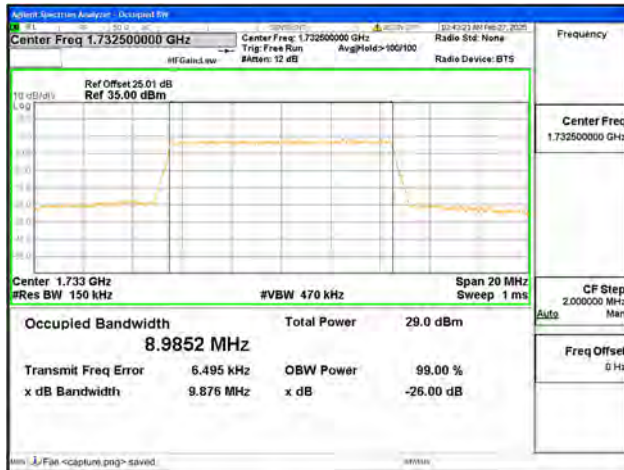
B4 / 5MHz / 16QAM/ High CH



B4 / 10MHz / QPSK/ Low CH



B4 / 10MHz / 16QAM/ Low CH



B4 / 10MHz / QPSK/ Mid CH



B4 / 10MHz / 16QAM/ Mid CH



B4 / 10MHz / QPSK/ High CH



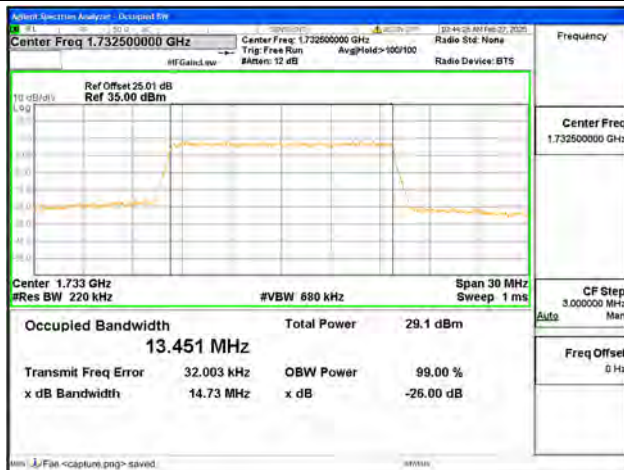
B4 / 10MHz / 16QAM/ High CH



B4 / 15MHz / QPSK/ Low CH



B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



B4 / 15MHz / 16QAM/ Mid CH



B4 / 15MHz / QPSK/ High CH



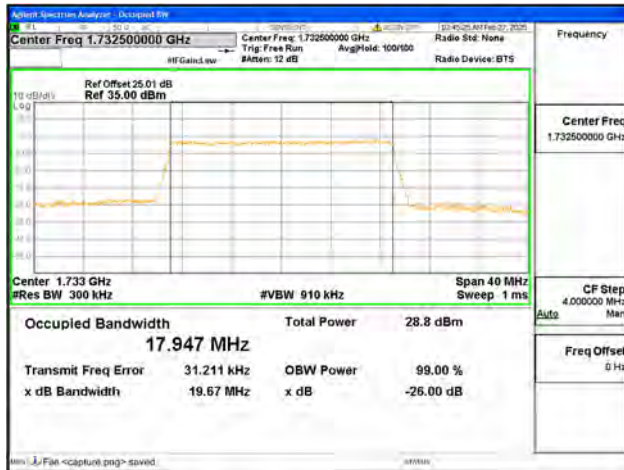
B4 / 15MHz / 16QAM/ High CH



B4 / 20MHz / QPSK/ Low CH



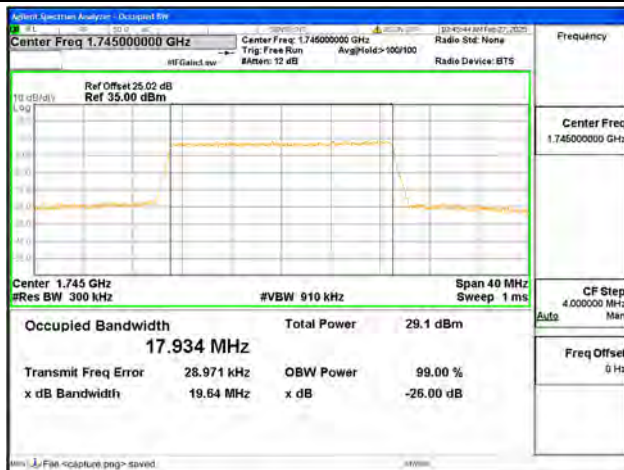
B4 / 20MHz / 16QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



B4 / 20MHz / 16QAM/ Mid CH



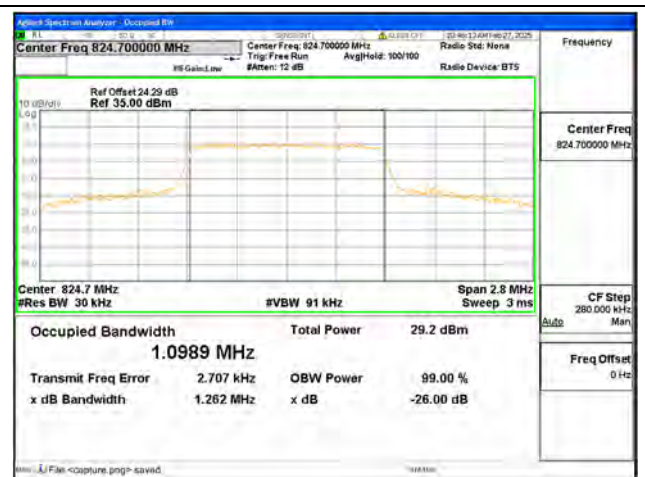
B4 / 20MHz / QPSK/ High CH



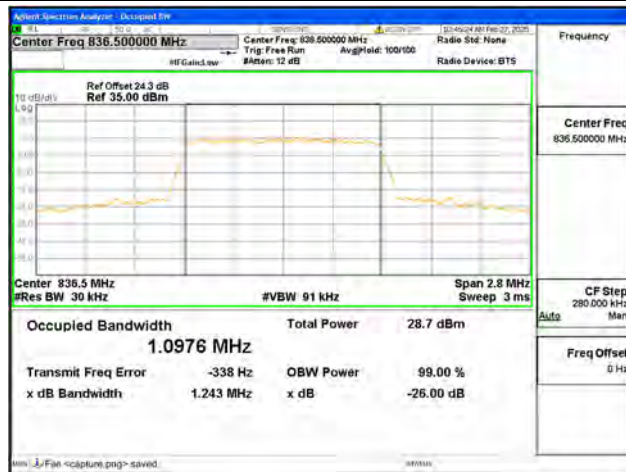
B4 / 20MHz / 16QAM/ High CH



B5 / 1.4MHz / QPSK/ Low CH



B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



B5 / 1.4MHz / 16QAM/ Mid CH



B5 / 1.4MHz / QPSK/ High CH



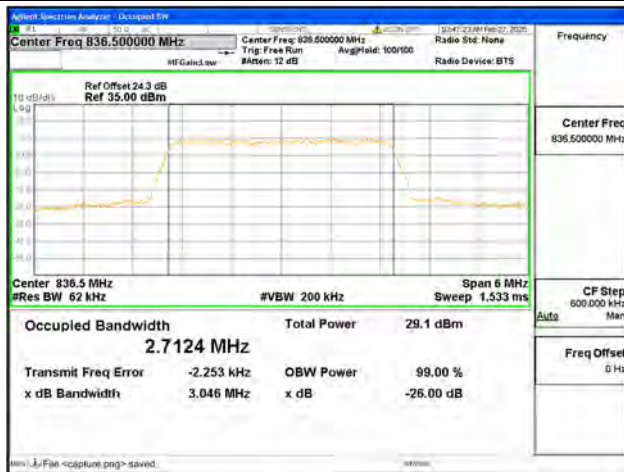
B5 / 1.4MHz / 16QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



B5 / 3MHz / 16QAM/ Low CH



B5 / 3MHz / QPSK/ Mid CH



B5 / 3MHz / 16QAM/ Mid CH



B5 / 3MHz / QPSK/ High CH



B5 / 3MHz / 16QAM/ High CH



B5 / 5MHz / QPSK/ Low CH



B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



B5 / 5MHz / 16QAM/ Mid CH



B5 / 5MHz / QPSK/ High CH



B5 / 5MHz / 16QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



B5 / 10MHz / 16QAM/ Low CH



B5 / 10MHz / QPSK/ Mid CH



B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



B5 / 10MHz / 16QAM/ High CH



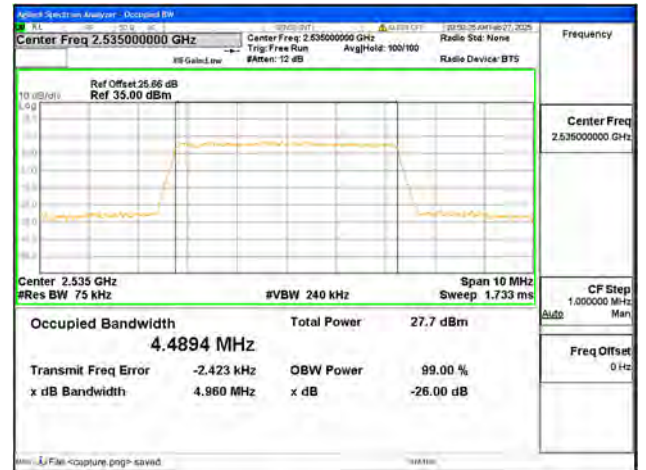
B7 / 5MHz / QPSK/ Low CH



B7 / 5MHz / 16QAM/ Low CH



B7 / 5MHz / QPSK/ Mid CH



B7 / 5MHz / 16QAM/ Mid CH



B7 / 5MHz / QPSK/ High CH



B7 / 5MHz / 16QAM/ High CH



B7 / 10MHz / QPSK/ Low CH



B7 / 10MHz / 16QAM/ Low CH



B7 / 10MHz / QPSK/ Mid CH



B7 / 10MHz / 16QAM/ Mid CH



B7 / 10MHz / QPSK/ High CH



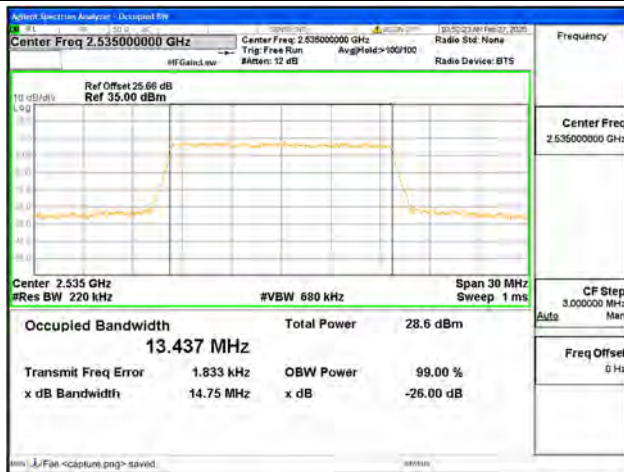
B7 / 10MHz / 16QAM/ High CH



B7 / 15MHz / QPSK/ Low CH



B7 / 15MHz / 16QAM/ Low CH



B7 / 15MHz / QPSK/ Mid CH



B7 / 15MHz / 16QAM/ Mid CH



B7 / 15MHz / QPSK/ High CH



B7 / 15MHz / 16QAM/ High CH



B7 / 20MHz / QPSK/ Low CH



B7 / 20MHz / 16QAM/ Low CH



B7 / 20MHz / QPSK/ Mid CH



B7 / 20MHz / 16QAM/ Mid CH



B7 / 20MHz / QPSK/ High CH



B7 / 20MHz / 16QAM/ High CH

2.3. Frequency Stability

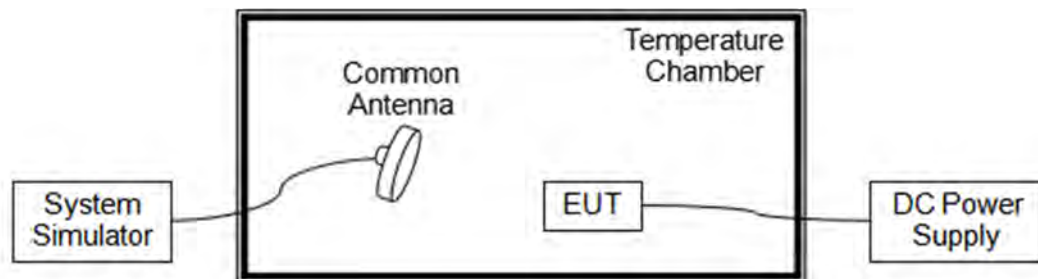
2.3.1. Requirement

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

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

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

2.3.2. Test Description



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

2.3.3. Test Procedure

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

**2.3.4. Test Result**

The nominal, highest and lowest extreme voltages are separately 3.70V, 4.35V and 3.60V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 2, 64QAM, Channel 18900, Frequency 1880.0MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	19	0.010	PASS
Normal		-10	19	0.010	
Normal		0	-2	-0.001	
Normal		+10	17	0.009	
Normal		+20	16	0.009	
Normal		+30	-15	-0.008	
Normal		+40	-14	-0.007	
Normal		+50	0	0.000	
Normal		+55	13	0.007	
High	4.35	+20	15	0.008	PASS
BATT.ENDPOINT	3.60	+20	-6	-0.003	

LTE Band 4, 64QAM, Channel 20175, Frequency 1732.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	15	0.009	PASS
Normal		-10	14	0.008	
Normal		0	19	0.011	
Normal		+10	14	0.008	
Normal		+20	20	0.012	
Normal		+30	20	0.012	
Normal		+40	-23	-0.013	
Normal		+50	23	0.013	
Normal		+55	-6	-0.003	
High	4.35	+20	17	0.010	PASS
BATT.ENDPOINT	3.60	+20	16	0.009	



LTE Band 5, 64QAM, Channel 20525, Frequency 836.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	13	0.016	PASS
Normal		-10	-2	-0.002	
Normal		0	14	0.017	
Normal		+10	18	0.022	
Normal		+20	-18	-0.022	
Normal		+30	11	0.013	
Normal		+40	19	0.023	
Normal		+50	-14	-0.017	
Normal		+55	13	0.016	
High	4.35	+20	17	0.020	
BATT.ENDPOINT	3.60	+20	5	0.006	

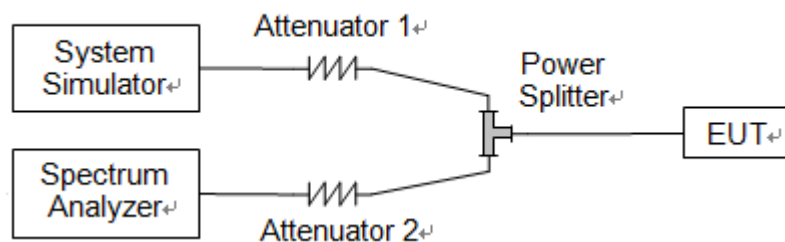
LTE Band 7, 64QAM, Channel 21100, Frequency 2535MHz Limit= Within Authorized Band					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.70	+20(Ref)	13	0.005	PASS
Normal		-10	20	0.008	
Normal		0	17	0.007	
Normal		+10	20	0.008	
Normal		+20	15	0.006	
Normal		+30	15	0.006	
Normal		+40	14	0.006	
Normal		+50	11	0.004	
Normal		+55	20	0.008	
High	4.35	+20	19	0.007	
BATT.ENDPOINT	3.60	+20	13	0.005	

2.4. Peak to Average Ratio

2.4.1. Requirement

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

2.4.2. Test Description



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

2.4.3. Test Procedure

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



2.4.4. Test Result

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

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	Peak to Average Radio(dB)	Verdict
B2	1.4	Low	18607	1850.7	QPSK	5.24	PASS
B2	1.4	Low	18607	1850.7	16QAM	6.28	PASS
B2	1.4	Mid	18900	1880	QPSK	5.62	PASS
B2	1.4	Mid	18900	1880	16QAM	6.66	PASS
B2	1.4	High	19193	1909.3	QPSK	5.49	PASS
B2	1.4	High	19193	1909.3	16QAM	6.38	PASS
B2	3	Low	18615	1851.5	QPSK	5.44	PASS
B2	3	Low	18615	1851.5	16QAM	6.26	PASS
B2	3	Mid	18900	1880	QPSK	5.78	PASS
B2	3	Mid	18900	1880	16QAM	6.63	PASS
B2	3	High	19185	1908.5	QPSK	5.53	PASS
B2	3	High	19185	1908.5	16QAM	6.29	PASS
B2	5	Low	18625	1852.5	QPSK	5.81	PASS
B2	5	Low	18625	1852.5	16QAM	6.05	PASS
B2	5	Mid	18900	1880	QPSK	5.69	PASS
B2	5	Mid	18900	1880	16QAM	6.19	PASS
B2	5	High	19175	1907.5	QPSK	5.56	PASS
B2	5	High	19175	1907.5	16QAM	6.19	PASS
B2	10	Low	18650	1855	QPSK	5.59	PASS
B2	10	Low	18650	1855	16QAM	6.19	PASS
B2	10	Mid	18900	1880	QPSK	5.80	PASS
B2	10	Mid	18900	1880	16QAM	6.44	PASS
B2	10	High	19150	1905	QPSK	5.69	PASS
B2	10	High	19150	1905	16QAM	6.33	PASS
B2	15	Low	18675	1857.5	QPSK	5.85	PASS
B2	15	Low	18675	1857.5	16QAM	6.20	PASS
B2	15	Mid	18900	1880	QPSK	5.53	PASS
B2	15	Mid	18900	1880	16QAM	6.39	PASS
B2	15	High	19125	1902.5	QPSK	5.54	PASS
B2	15	High	19125	1902.5	16QAM	6.23	PASS
B2	20	Low	18700	1860	QPSK	6.12	PASS



REPORT No.: SZ24120366W03

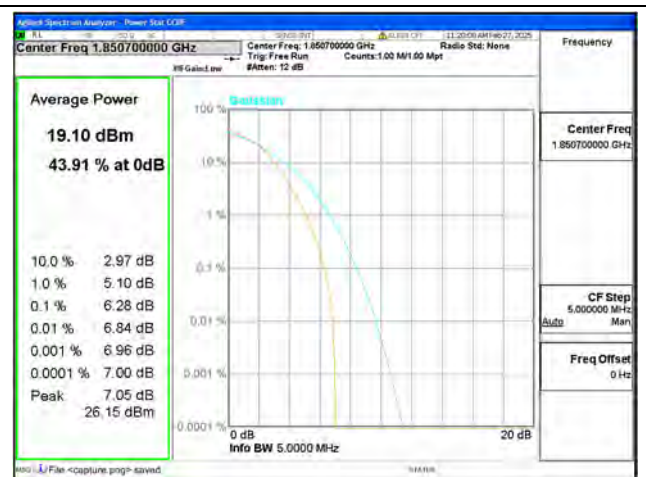
B2	20	Low	18700	1860	16QAM	6.22	PASS
B2	20	Mid	18900	1880	QPSK	5.65	PASS
B2	20	Mid	18900	1880	16QAM	6.29	PASS
B2	20	High	19100	1900	QPSK	5.55	PASS
B2	20	High	19100	1900	16QAM	6.30	PASS
B4	1.4	Low	19957	1710.7	QPSK	4.71	PASS
B4	1.4	Low	19957	1710.7	16QAM	5.58	PASS
B4	1.4	Mid	20175	1732.5	QPSK	5.24	PASS
B4	1.4	Mid	20175	1732.5	16QAM	6.26	PASS
B4	1.4	High	20393	1754.3	QPSK	4.90	PASS
B4	1.4	High	20393	1754.3	16QAM	5.78	PASS
B4	3	Low	19965	1711.5	QPSK	4.83	PASS
B4	3	Low	19965	1711.5	16QAM	5.57	PASS
B4	3	Mid	20175	1732.5	QPSK	5.32	PASS
B4	3	Mid	20175	1732.5	16QAM	6.17	PASS
B4	3	High	20385	1753.5	QPSK	5.09	PASS
B4	3	High	20385	1753.5	16QAM	5.70	PASS
B4	5	Low	19975	1712.5	QPSK	5.13	PASS
B4	5	Low	19975	1712.5	16QAM	5.79	PASS
B4	5	Mid	20175	1732.5	QPSK	5.41	PASS
B4	5	Mid	20175	1732.5	16QAM	6.45	PASS
B4	5	High	20375	1752.5	QPSK	7.25	PASS
B4	5	High	20375	1752.5	16QAM	5.89	PASS
B4	10	Low	20000	1715	QPSK	5.27	PASS
B4	10	Low	20000	1715	16QAM	5.98	PASS
B4	10	Mid	20175	1732.5	QPSK	5.44	PASS
B4	10	Mid	20175	1732.5	16QAM	6.21	PASS
B4	10	High	20350	1750	QPSK	5.39	PASS
B4	10	High	20350	1750	16QAM	6.07	PASS
B4	15	Low	20025	1717.5	QPSK	4.93	PASS
B4	15	Low	20025	1717.5	16QAM	5.77	PASS
B4	15	Mid	20175	1732.5	QPSK	5.29	PASS
B4	15	Mid	20175	1732.5	16QAM	6.10	PASS
B4	15	High	20325	1747.5	QPSK	5.19	PASS
B4	15	High	20325	1747.5	16QAM	5.96	PASS
B4	20	Low	20050	1720	QPSK	5.14	PASS
B4	20	Low	20050	1720	16QAM	5.94	PASS
B4	20	Mid	20175	1732.5	QPSK	5.33	PASS



B4	20	Mid	20175	1732.5	16QAM	6.18	PASS
B4	20	High	20300	1745	QPSK	5.31	PASS
B4	20	High	20300	1745	16QAM	6.03	PASS
B5	1.4	Low	20407	824.7	QPSK	4.43	PASS
B5	1.4	Low	20407	824.7	16QAM	5.19	PASS
B5	1.4	Mid	20525	836.5	QPSK	5.80	PASS
B5	1.4	Mid	20525	836.5	16QAM	6.84	PASS
B5	1.4	High	20643	848.3	QPSK	4.37	PASS
B5	1.4	High	20643	848.3	16QAM	5.45	PASS
B5	3	Low	20415	825.5	QPSK	4.59	PASS
B5	3	Low	20415	825.5	16QAM	5.24	PASS
B5	3	Mid	20525	836.5	QPSK	5.85	PASS
B5	3	Mid	20525	836.5	16QAM	6.70	PASS
B5	3	High	20635	847.5	QPSK	4.75	PASS
B5	3	High	20635	847.5	16QAM	5.37	PASS
B5	5	Low	20425	826.5	QPSK	5.23	PASS
B5	5	Low	20425	826.5	16QAM	5.53	PASS
B5	5	Mid	20525	836.5	QPSK	5.84	PASS
B5	5	Mid	20525	836.5	16QAM	6.63	PASS
B5	5	High	20625	846.5	QPSK	4.98	PASS
B5	5	High	20625	846.5	16QAM	5.73	PASS
B5	10	Low	20450	829	QPSK	5.37	PASS
B5	10	Low	20450	829	16QAM	6.01	PASS
B5	10	Mid	20525	836.5	QPSK	5.75	PASS
B5	10	Mid	20525	836.5	16QAM	6.46	PASS
B5	10	High	20600	844	QPSK	5.23	PASS
B5	10	High	20600	844	16QAM	5.90	PASS



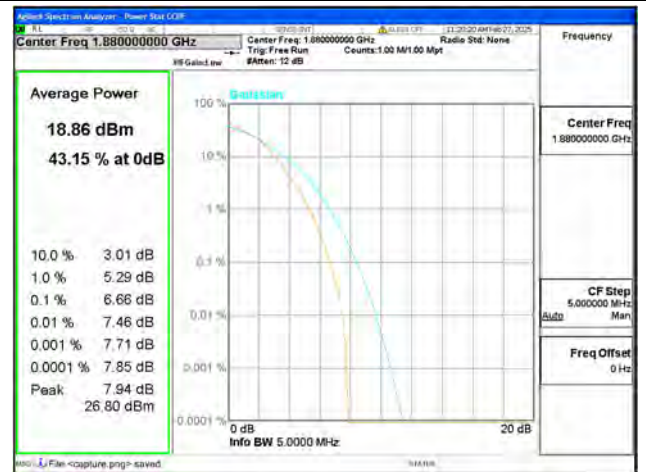
B2 / 1.4MHz / Low CH / QPSK



B2 / 1.4MHz / Low CH / 16QAM



B2 / 1.4MHz / Mid CH / QPSK



B2 / 1.4MHz / Mid CH / 16QAM



B2 / 1.4MHz / High CH / QPSK



B2 / 1.4MHz / High CH / 16QAM



B2 / 3MHz / Low CH / QPSK



B2 / 3MHz / Low CH / 16QAM



B2 / 3MHz / Mid CH / QPSK



B2 / 3MHz / Mid CH / 16QAM



B2 / 3MHz / High CH / QPSK



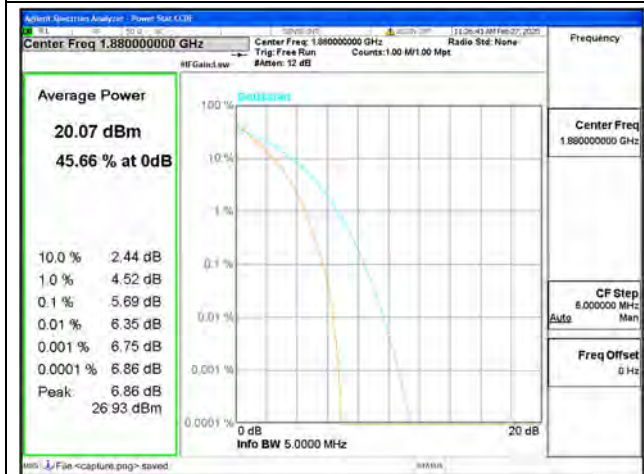
B2 / 3MHz / High CH / 16QAM



B2 / 5MHz / Low CH / QPSK



B2 / 5MHz / Low CH / 16QAM



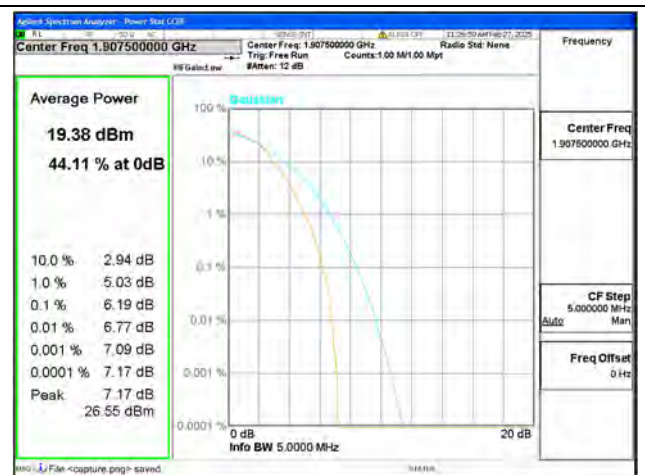
B2 / 5MHz / Mid CH / QPSK



B2 / 5MHz / Mid CH / 16QAM



B2 / 5MHz / High CH / QPSK



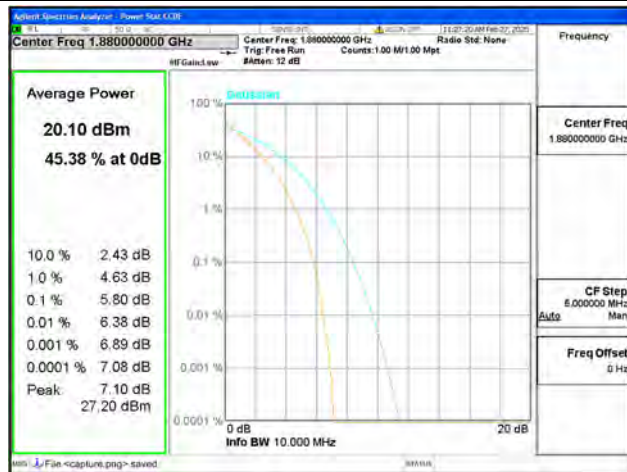
B2 / 5MHz / High CH / 16QAM



B2 / 10MHz / Low CH / QPSK



B2 / 10MHz / Low CH / 16QAM



B2 / 10MHz / Mid CH / QPSK



B2 / 10MHz / Mid CH / 16QAM



B2 / 10MHz / High CH / QPSK



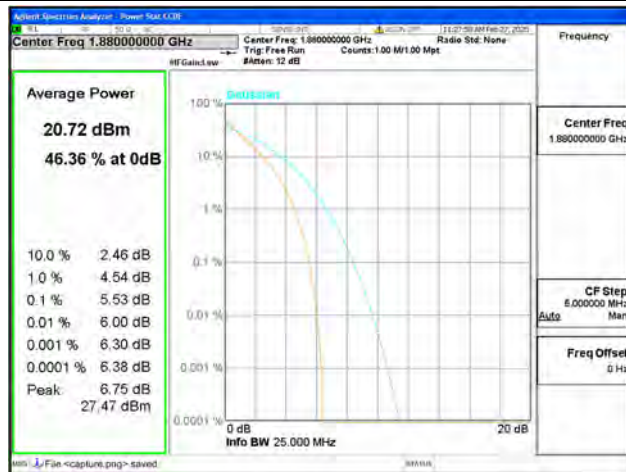
B2 / 10MHz / High CH / 16QAM



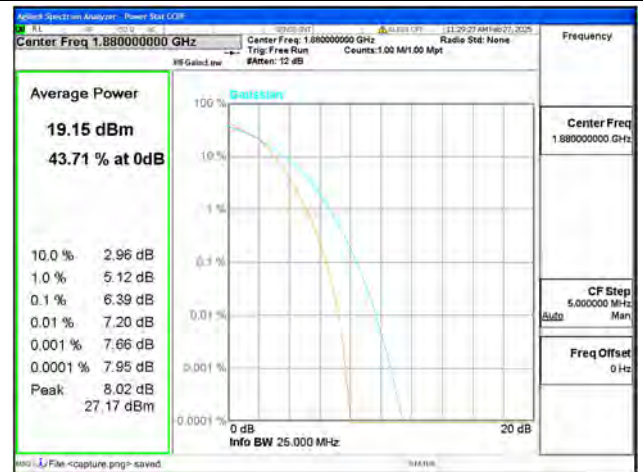
B2 / 15MHz / Low CH / QPSK



B2 / 15MHz / Low CH / 16QAM



B2 / 15MHz / Mid CH / QPSK



B2 / 15MHz / Mid CH / 16QAM



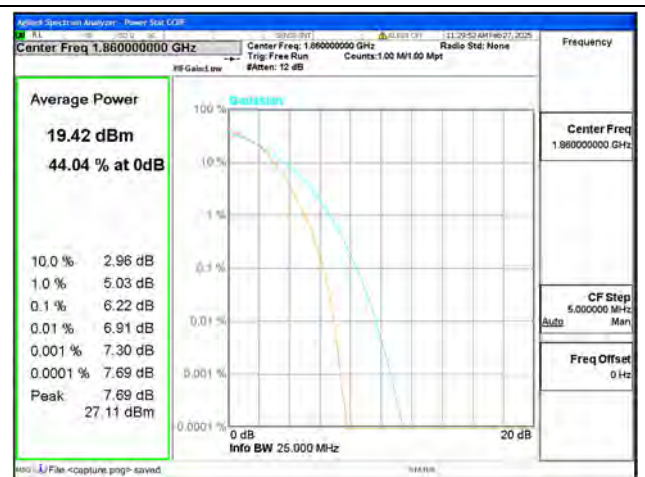
B2 / 15MHz / High CH / QPSK



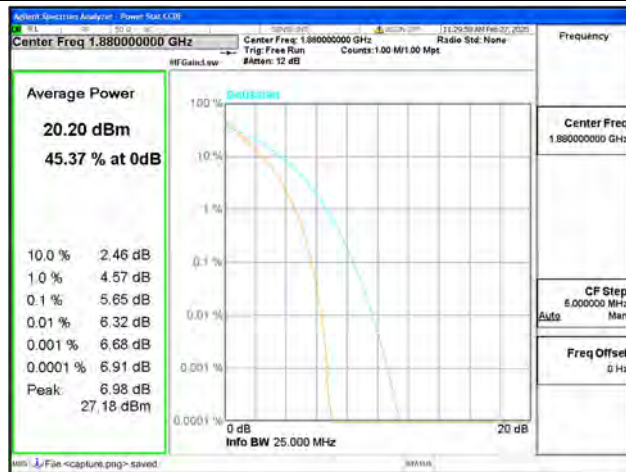
B2 / 15MHz / High CH / 16QAM



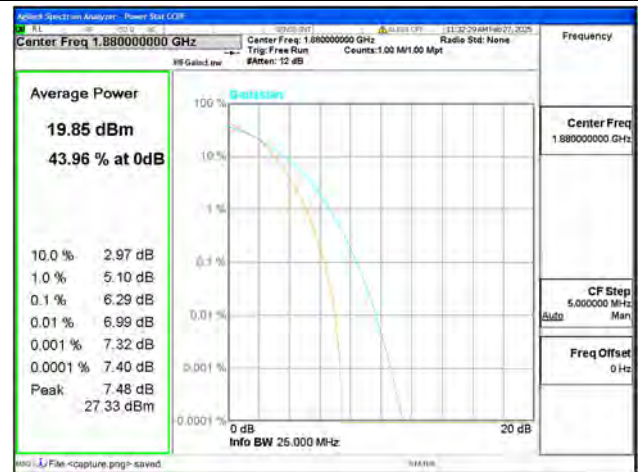
B2 / 20MHz / Low CH / QPSK



B2 / 20MHz / Low CH / 16QAM



B2 / 20MHz / Mid CH / QPSK



B2 / 20MHz / Mid CH / 16QAM



B2 / 20MHz / High CH / QPSK



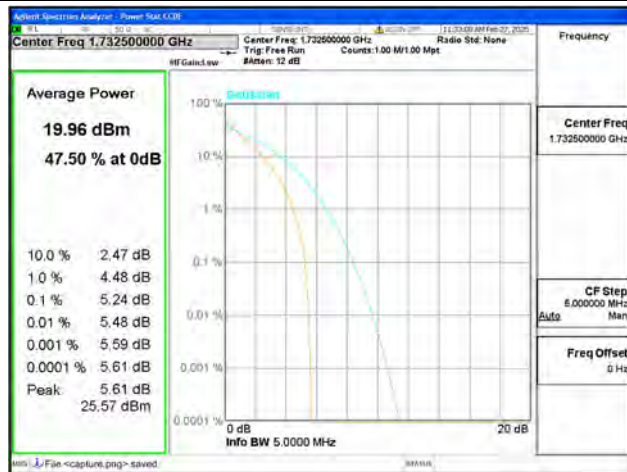
B2 / 20MHz / High CH / 16QAM



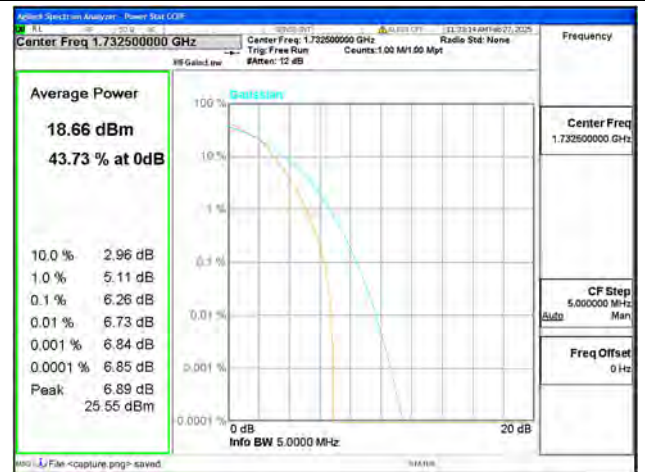
B4 / 1.4MHz / Low CH / QPSK



B4 / 1.4MHz / Low CH / 16QAM



B4 / 1.4MHz / Mid CH / QPSK



B4 / 1.4MHz / Mid CH / 16QAM



B4 / 1.4MHz / High CH / QPSK



B4 / 1.4MHz / High CH / 16QAM



B4 / 3MHz / Low CH / QPSK



B4 / 3MHz / Low CH / 16QAM



B4 / 3MHz / Mid CH / QPSK



B4 / 3MHz / Mid CH / 16QAM



B4 / 3MHz / High CH / QPSK



B4 / 3MHz / High CH / 16QAM



B4 / 5MHz / Low CH / QPSK



B4 / 5MHz / Low CH / 16QAM



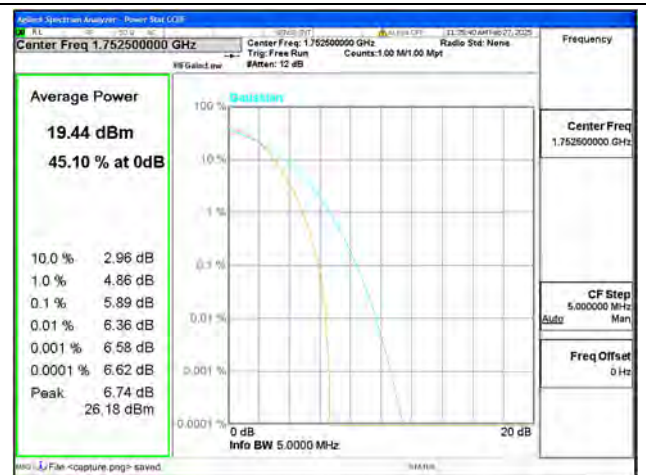
B4 / 5MHz / Mid CH / QPSK



B4 / 5MHz / Mid CH / 16QAM



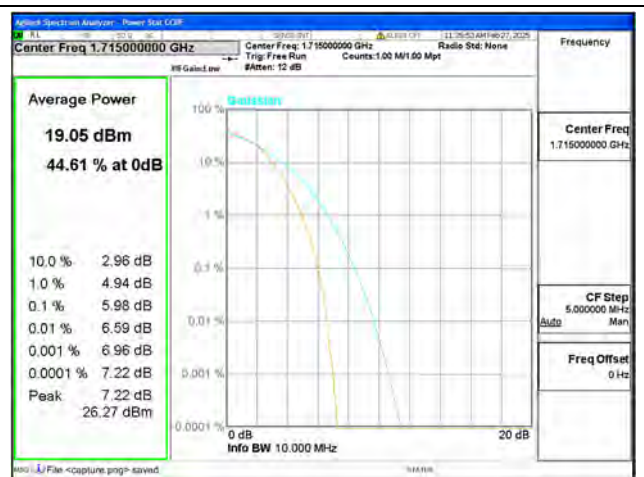
B4 / 5MHz / High CH / QPSK



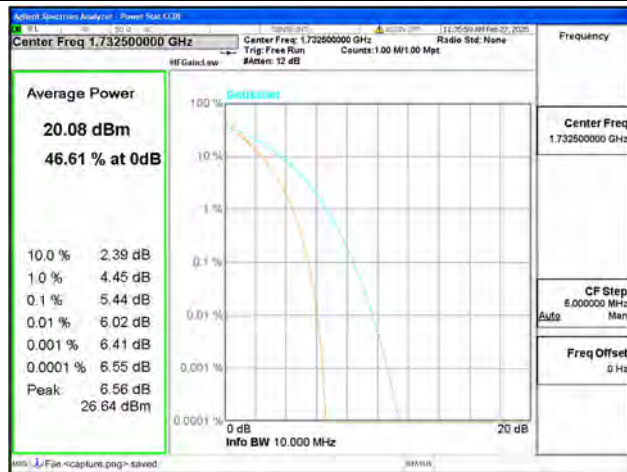
B4 / 5MHz / High CH / 16QAM



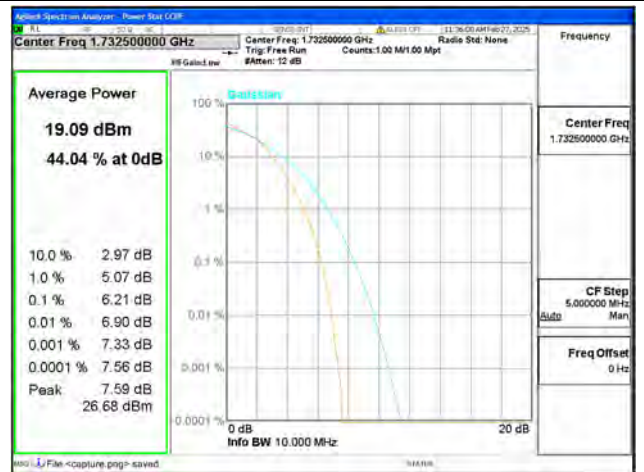
B4 / 10MHz / Low CH / QPSK



B4 / 10MHz / Low CH / 16QAM



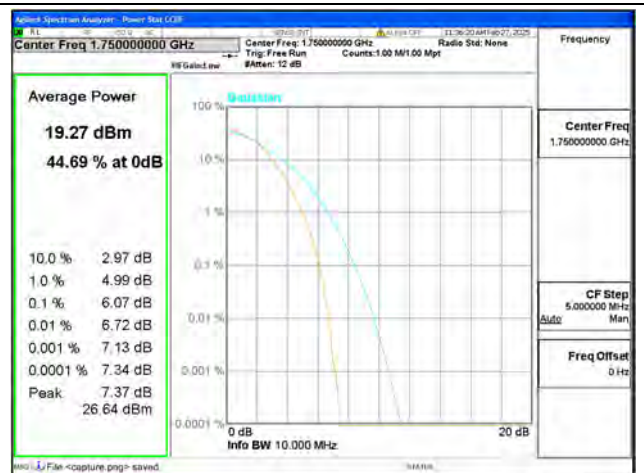
B4 / 10MHz / Mid CH / QPSK



B4 / 10MHz / Mid CH / 16QAM



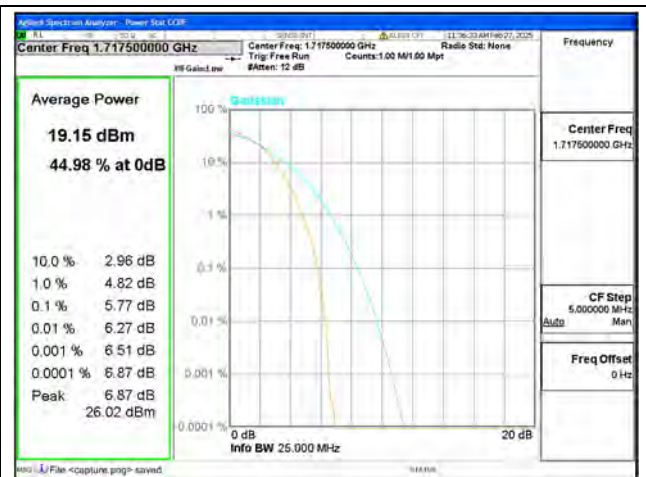
B4 / 10MHz / High CH / QPSK



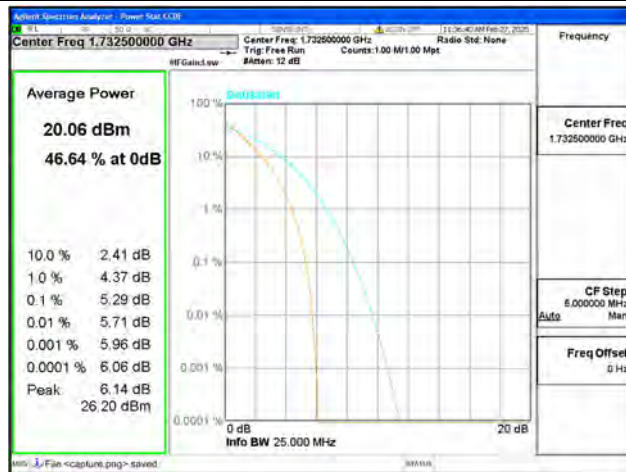
B4 / 10MHz / High CH / 16QAM



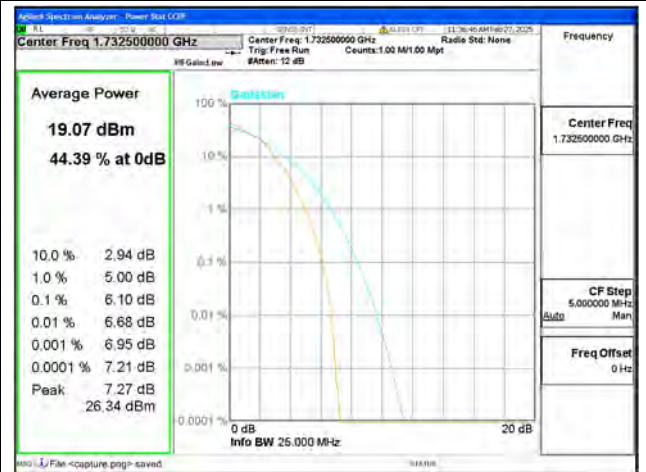
B4 / 15MHz / Low CH / QPSK



B4 / 15MHz / Low CH / 16QAM



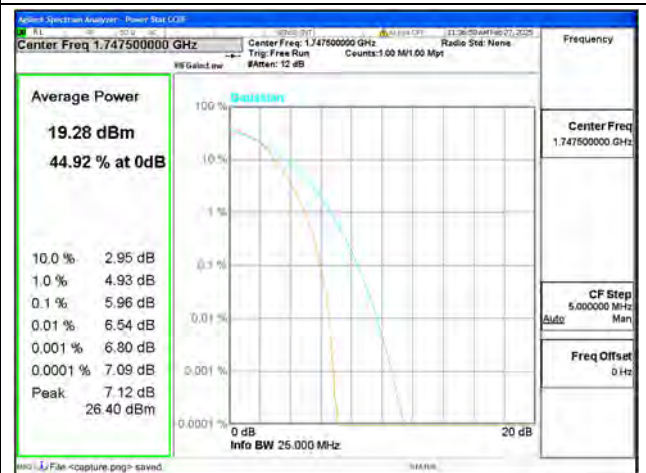
B4 / 15MHz / Mid CH / QPSK



B4 / 15MHz / Mid CH / 16QAM



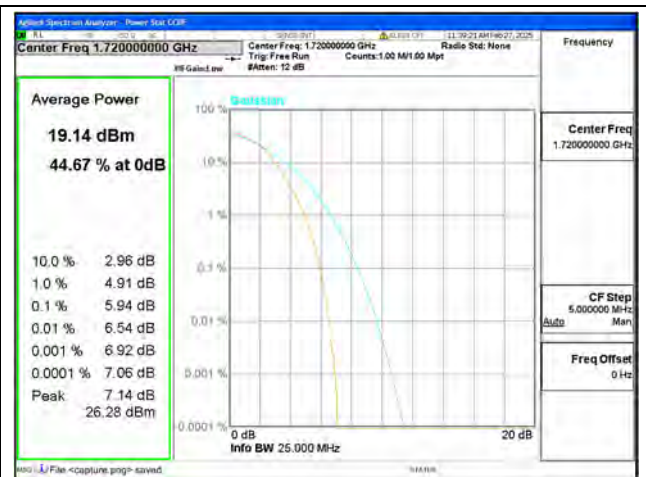
B4 / 15MHz / High CH / QPSK



B4 / 15MHz / High CH / 16QAM



B4 / 20MHz / Low CH / QPSK



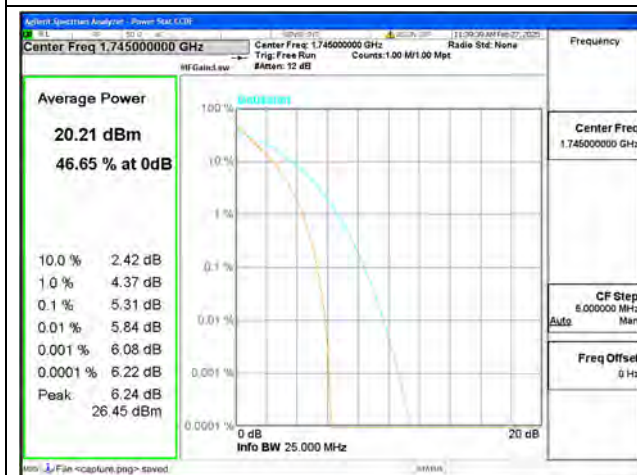
B4 / 20MHz / Low CH / 16QAM



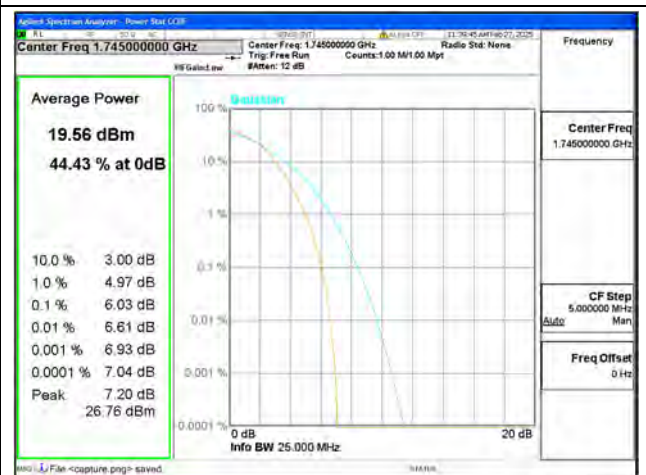
B4 / 20MHz / Mid CH / QPSK



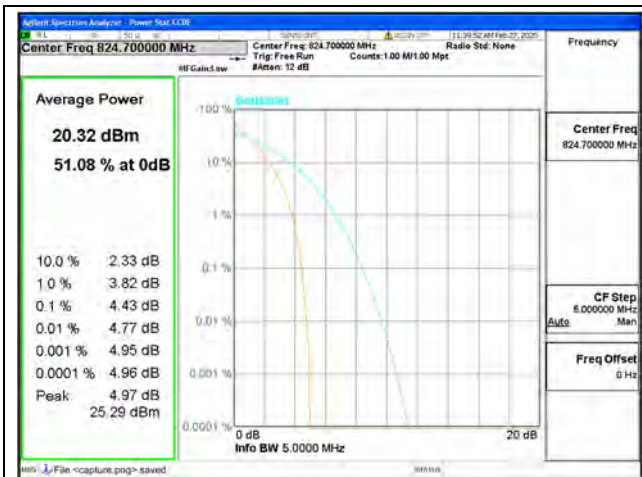
B4 / 20MHz / Mid CH / 16QAM



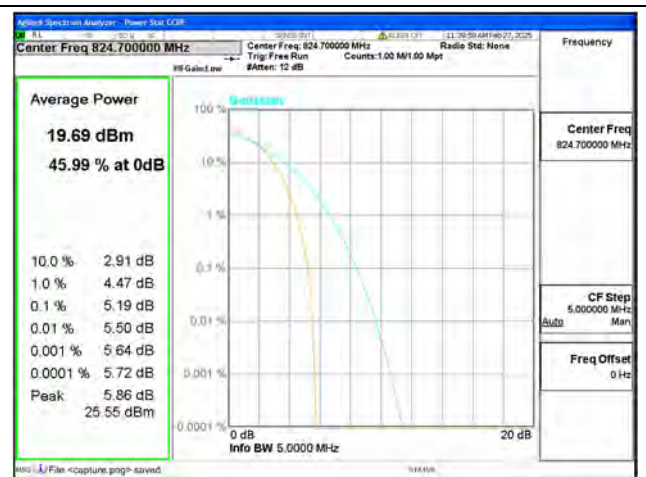
B4 / 20MHz / High CH / QPSK



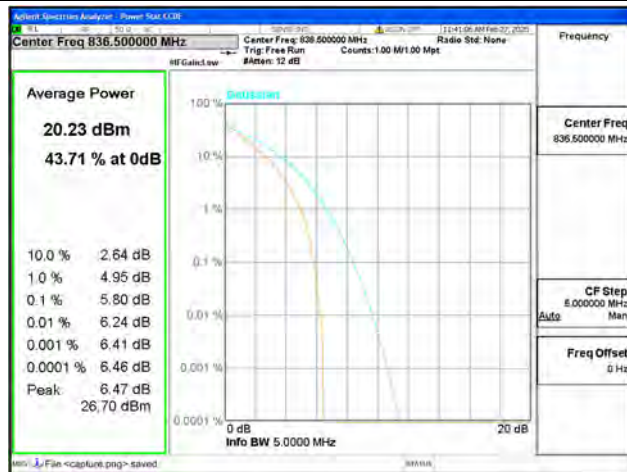
B4 / 20MHz / High CH / 16QAM



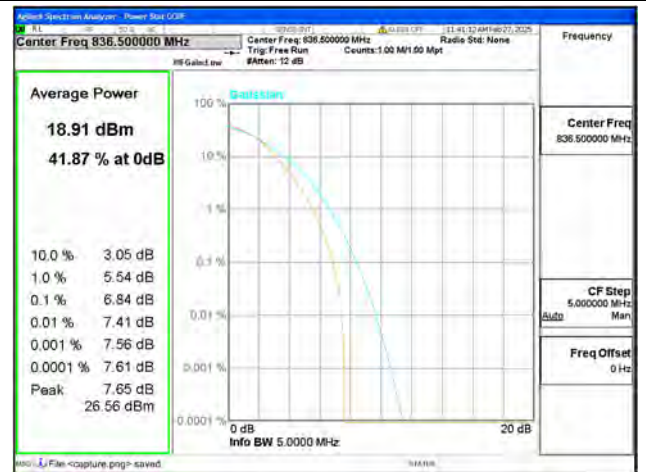
B5 / 1.4MHz / Low CH / QPSK



B5 / 1.4MHz / Low CH / 16QAM



B5 / 1.4MHz / Mid CH / QPSK



B5 / 1.4MHz / Mid CH / 16QAM



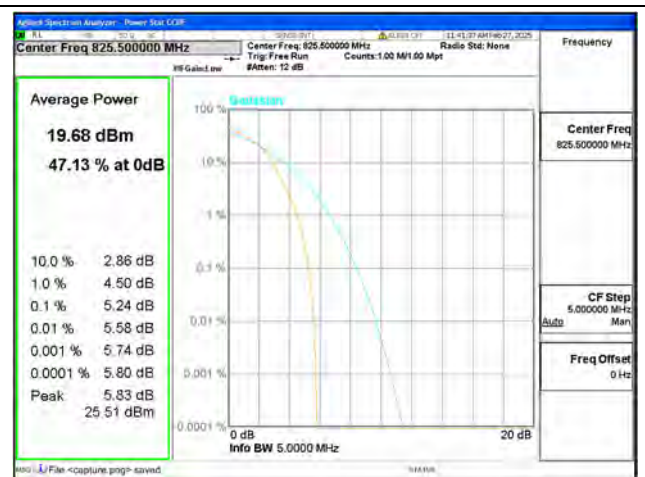
B5 / 1.4MHz / High CH / QPSK



B5 / 1.4MHz / High CH / 16QAM



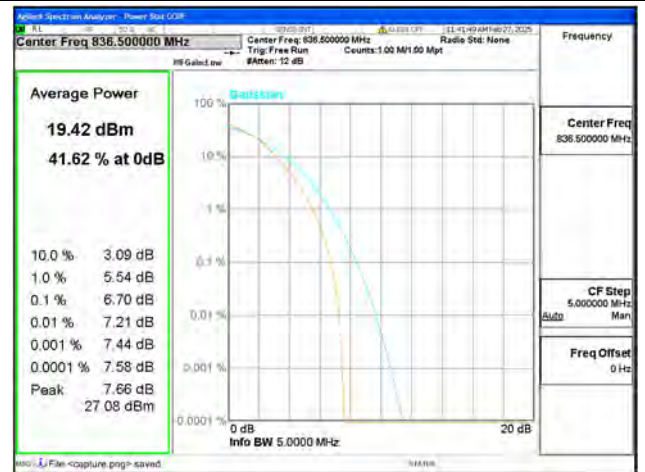
B5 / 3MHz / Low CH / QPSK



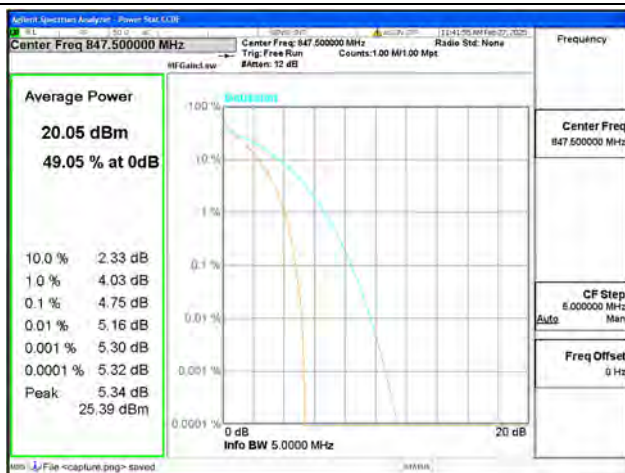
B5 / 3MHz / Low CH / 16QAM



B5 / 3MHz / Mid CH / QPSK



B5 / 3MHz / Mid CH / 16QAM



B5 / 3MHz / High CH / QPSK



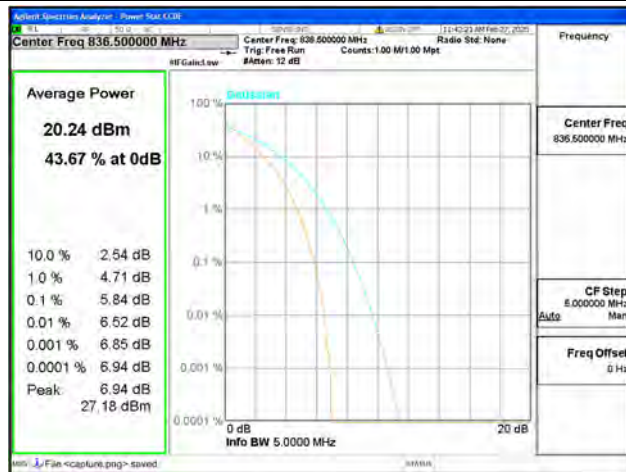
B5 / 3MHz / High CH / 16QAM



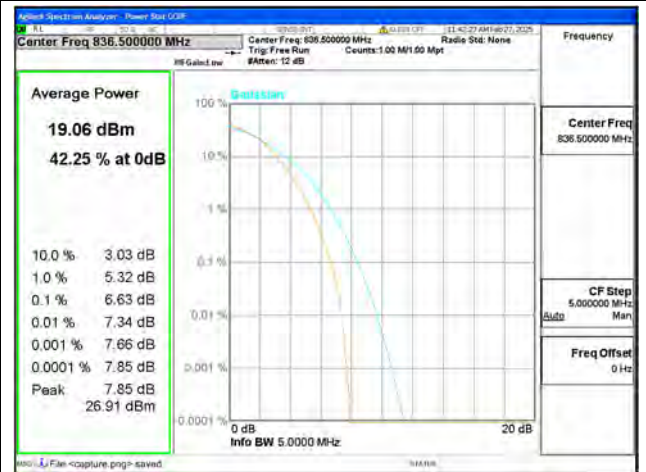
B5 / 5MHz / Low CH / QPSK



B5 / 5MHz / Low CH / 16QAM



B5 / 5MHz / Mid CH / QPSK



B5 / 5MHz / Mid CH / 16QAM



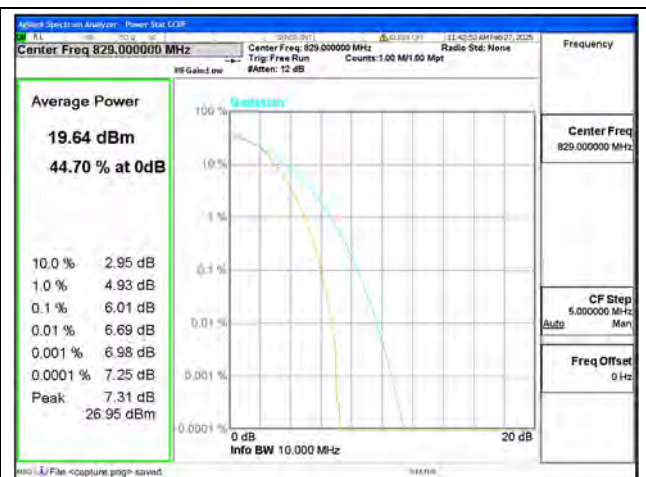
B5 / 5MHz / High CH / QPSK



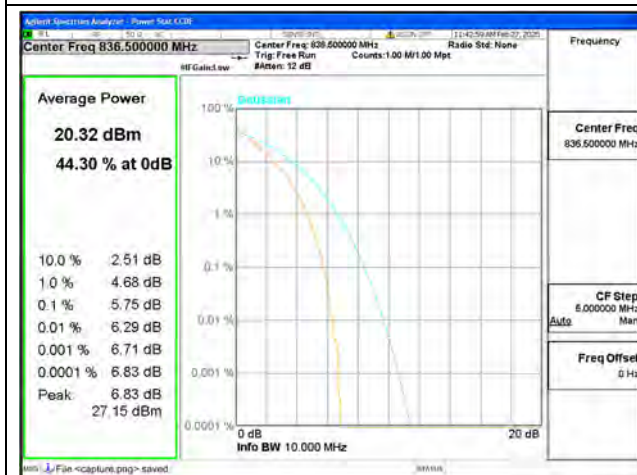
B5 / 5MHz / High CH / 16QAM



B5 / 10MHz / Low CH / QPSK



B5 / 10MHz / Low CH / 16QAM



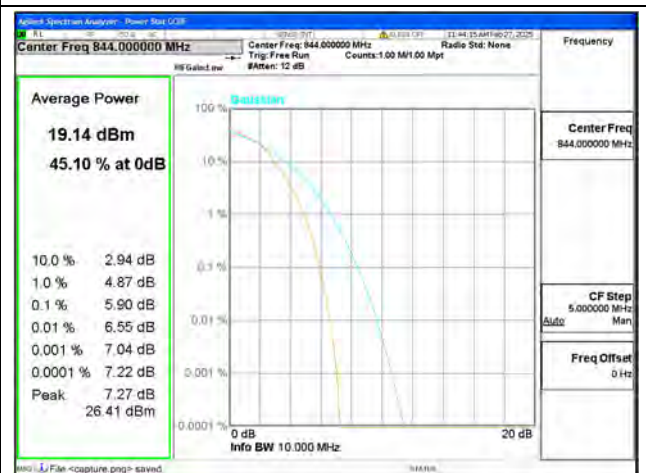
B5 / 10MHz / Mid CH / QPSK



B5 / 10MHz / Mid CH / 16QAM



B5 / 10MHz / High CH / QPSK



B5 / 10MHz / High CH / 16QAM

2.5. Conducted Spurious Emissions

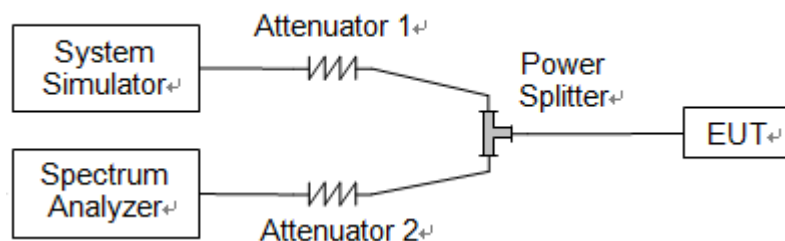
2.5.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

Additional requirement for LTE Band 7:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

2.5.2. Test Description



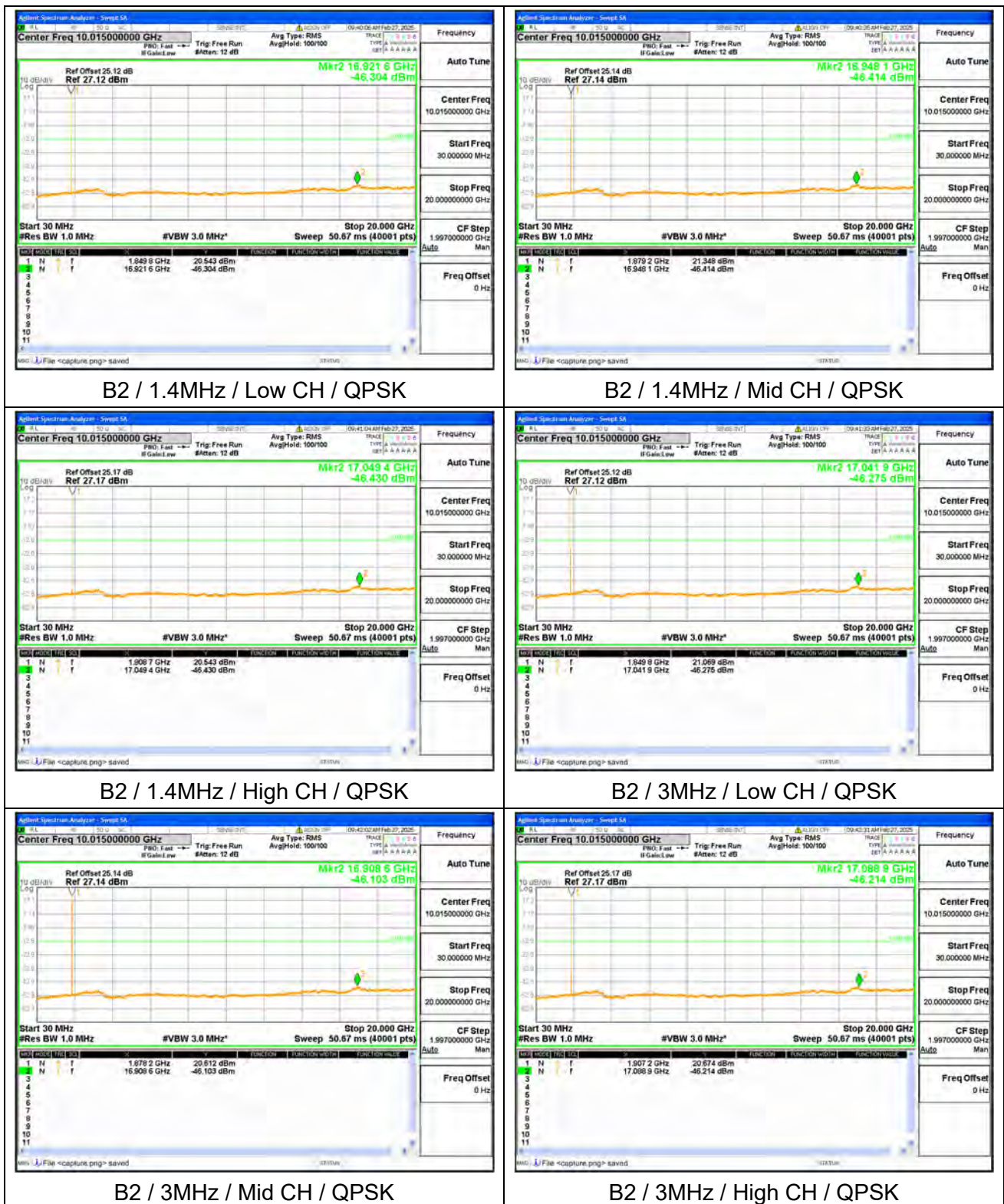
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.5.3. Test Procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

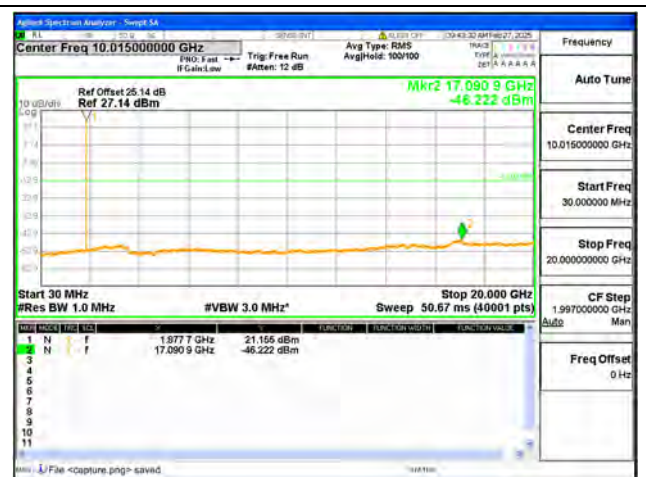


2.5.4. Test Result

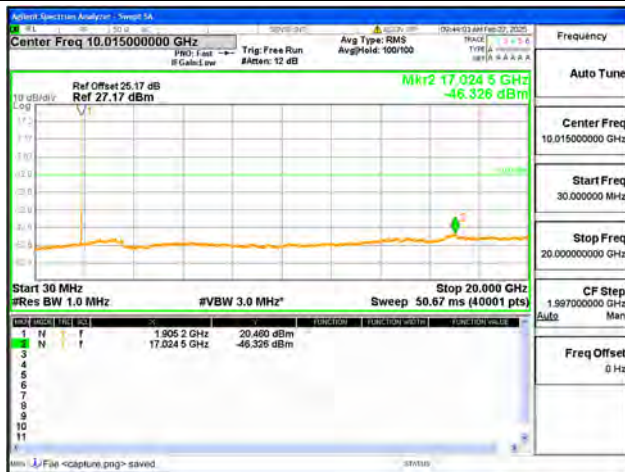




B2 / 5MHz / Low CH / QPSK



B2 / 5MHz / Mid CH / QPSK



B2 / 5MHz / High CH / QPSK



B2 / 10MHz / Low CH / QPSK



B2 / 10MHz / Mid CH / QPSK



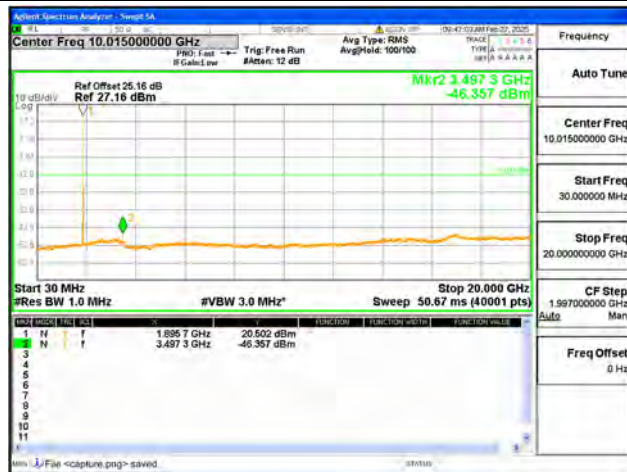
B2 / 10MHz / High CH / QPSK



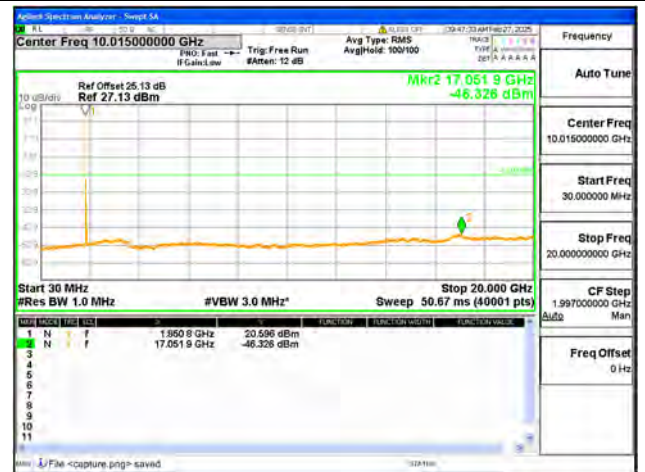
B2 / 15MHz / Low CH / QPSK



B2 / 15MHz / Mid CH / QPSK



B2 / 15MHz / High CH / QPSK



B2 / 20MHz / Low CH / QPSK



B2 / 20MHz / Mid CH / QPSK



B2 / 20MHz / High CH / QPSK