



TEST REPORT

APPLICANT : Realme Chongqing Mobile
: Telecommunications Corp., Ltd.

PRODUCT NAME : Mobile Phone

MODEL NAME : RMX2170

BRAND NAME : realme

FCC ID : 2AUYFRMX2170

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

RECEIPT DATE : 2020-08-03

TEST DATE : 2020-08-03 to 2020-08-25

ISSUE DATE : 2020-08-31

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Change History		
Version	Date	Reason for change
1.0	2020-08-31	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Applicant Address:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Manufacturer:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
ManufacturerAddress:	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone	
Hardware Version:	11	
Software Version:	realme UI V1.0	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 2 / 4 / 5 / 7 / 38 / 40 / 41	
Carrier Aggregation:	B2C, B7C, B38C, B41C (only downlink carrier Aggregation)	
Frequency Range:	LTE Band 2	Tx: 1850MHz – 1910MHz
		Rx: 1930MHz – 1990MHz
	LTE Band 4	Tx: 1710MHz – 1755MHz
		Rx: 2110MHz – 2155MHz
	LTE Band 5	Tx: 824MHz - 849MHz
		Rx: 869MHz - 894MHz
	LTE Band 7	Tx: 2500MHz – 2570MHz
		Rx: 2620MHz – 2690MHz
	LTE Band 38	Tx: 2570MHz - 2620MHz
		Rx: 2570MHz - 2620MHz
	LTE Band 40	Tx: 2305MHz – 2315MHz
		Rx: 2305MHz – 2315MHz
Tx: 2350MHz – 2360MHz		
Rx: 2350MHz – 2360MHz		
LTE Band 41	Tx: 2535MHz - 2655MHz	
	Rx: 2535MHz - 2655MHz	



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, 3 MHz, 5 MHz, 10MHz
	LTE Band 7	5MHz,10MHz,15MHz,20MHz
	LTE Band 38	5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 40	5 MHz, 10MHz
	LTE Band 41	5 MHz, 10MHz, 15 MHz, 20MHz
Antenna Type:	FPC Antenna	
Antenna Gain:	LTE Band 2	1.10 dBi
	LTE Band 4	1.10 dBi
	LTE Band 5	0.50 dBi
	LTE Band 7	1.10 dBi
	LTE Band 38	1.10 dBi
	LTE Band 40	1.10 dBi
	LTE Band 41	1.10 dBi
Accessory Information:	Battery 1	
	Brand Name:	realme
	Model No.:	BLP799
	Capacity:	2200.00mAh
	Rated Voltage:	7.74V
	Charge Limit:	8.90 V
	Manufacturer:	SUNWODA Electronic Co., Ltd.
	Battery 2	
	Brand Name:	realme
	Model No.:	BLP799
	Capacity:	2200.00mAh
	Rated Voltage:	7.74V
	Charge Limit:	8.90 V
	Manufacturer:	Dongguan NVT Technology Co.,Ltd.
	AC Adapter	
	Brand Name:	realme
	Model No.:	VCA7JAUH
Rated Input:	100-240V ~ 50/60Hz 1.8A	
Rated Output:	10V=6.5A or 5V=2.0A	

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 ERP/EIRP and Emission Designator

LTE Band2		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.239	0.212	0.198	18M0G7D	18M0W7D	18M0D7W	
15	0.242	0.212	0.207	13M4G7D	13M4W7D	13M4D7W	
10	0.237	0.205	0.200	8M99G7D	8M96W7D	8M97D7W	
5	0.236	0.204	0.207	4M50G7D	4M50W7D	4M50D7W	
3	0.236	0.209	0.195	2M70G7D	2M70W7D	2M71D7W	
1.4	0.234	0.207	0.202	1M11G7D	1M10W7D	1M09D7W	
LTE Band4		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.222	0.195	0.182	18M0G7D	18M0W7D	18M0D7W	
15	0.223	0.197	0.186	13M5G7D	13M4W7D	13M4D7W	
10	0.228	0.195	0.195	9M00G7D	8M98W7D	9M00D7W	
5	0.229	0.200	0.183	4M51G7D	4M51W7D	4M51D7W	
3	0.232	0.191	0.197	2M70G7D	2M71W7D	2M71D7W	
1.4	0.226	0.197	0.200	1M09G7D	1M10W7D	1M09D7W	
LTE Band5		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
10	0.137	0.121	0.117	9M00G7D	8M96W7D	8M97D7W	
5	0.138	0.118	0.122	4M50G7D	4M51W7D	4M50D7W	
3	0.138	0.121	0.111	2M70G7D	2M71W7D	2M71D7W	
1.4	0.135	0.117	0.119	1M09G7D	1M10W7D	1M09D7W	
LTE Band7		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.222	0.193	0.182	18M0G7D	18M0W7D	18M0D7W	
15	0.222	0.193	0.190	13M4G7D	13M4W7D	13M4D7W	
10	0.230	0.194	0.184	9M02G7D	8M97W7D	8M98D7W	
5	0.219	0.191	0.193	4M51G7D	4M51W7D	4M50D7W	
LTE Band38		Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
20	0.239	0.215	0.211	18M0G7D	18M0W7D	18M0D7W	
15	0.240	0.206	0.200	13M4G7D	13M4W7D	13M4D7W	
10	0.242	0.204	0.200	8M93G7D	8M93W7D	8M92D7W	
5	0.244	0.205	0.201	4M50G7D	4M49W7D	4M50D7W	



LTEBand4 0 2305MHz 2315MHz	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)			
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
	10	0.233	0.198	0.193	8M93G7D	8M92W7D	8M94D7W
	5	0.234	0.198	0.193	4M52G7D	4M52W7D	4M53D7W
LTE Band40 2350MHz 2360MHz	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)			
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
	10	0.232	0.197	0.190	8M93G7D	8M91W7D	8M92D7W
	5	0.232	0.198	0.195	4M50G7D	4M50W7D	4M51D7W
LTE Band41	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)			
	BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
	20	0.237	0.207	0.201	17M9G7D	17M9W7D	17M8D7W
	15	0.241	0.204	0.196	13M4G7D	13M4W7D	13M4D7W
	10	0.243	0.204	0.202	8M94G7D	8M93W7D	8M93D7W
	5	0.236	0.204	0.196	4M50G7D	4M51W7D	4M50D7W



1.4. Test Standards and Results

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

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



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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 22.913(a)(2), 24.232(c),27.50	Transmitter Conducted Output Power and ERP/EIRP	Aug 10	Chen Hao	PASS	No deviation
2.1049	Occupied Bandwidth	Aug 8 to 10, 2020	Zhou xiaolong	PASS	No deviation
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Aug 13 to 15, 2020	Zhou xiaolong	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Aug 6 to 8, 2020	Zhou xiaolong	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Conducted Spurious Emissions	Aug 16 to 21, 2020	Zhou xiaolong	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Band Edge	Aug 22 to 25 2020	Zhou xiaolong	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53	Radiated Spurious Emissions	Aug11, 2020	Gao Jianrou	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 23.5dB contains two parts that cable loss 13.5dB and Attenuator 10dB.



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, 22H, 24E and 27D&L&M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIPR

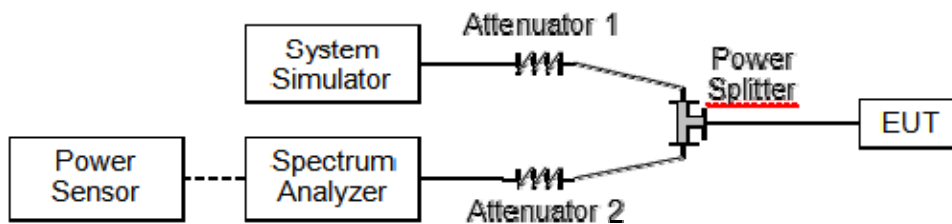
2.1.1. Requirement

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 22.913 (a.2) for LTE Band 5, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h) for LTE Band 41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

2.1.2. Test Descrip



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.

2.1.3. Test procedure

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



EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

ERP (dBm) = EIPR (dBm) - 2.15

2.1.4. Result

Conducted Output Power

LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.36	22.31	22.19
20	QPSK	1	49	22.51	22.14	22.18
20	QPSK	1	99	22.15	22.27	22.07
20	QPSK	50	0	21.31	21.40	21.24
20	QPSK	50	24	21.44	21.35	21.15
20	QPSK	50	50	21.32	21.28	21.19
20	QPSK	100	0	21.32	21.33	21.27
20	16QAM	1	0	21.93	21.97	21.91
20	16QAM	1	49	21.65	21.71	21.65
20	16QAM	1	99	21.54	21.58	21.51
20	16QAM	50	0	20.42	20.49	20.38
20	16QAM	50	24	20.49	20.48	20.28
20	16QAM	50	50	20.43	20.51	20.27
20	16QAM	100	0	20.47	20.32	20.34
20	64QAM	1	0	21.57	21.68	21.38
20	64QAM	1	49	21.38	21.45	21.34
20	64QAM	1	99	21.32	21.39	21.27
20	64QAM	50	0	20.50	20.56	20.33
20	64QAM	50	24	20.55	20.44	20.31
20	64QAM	50	50	20.43	20.42	20.26
20	64QAM	100	0	20.45	20.42	20.38



LTE Band2						
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	22.35	22.31	22.14
15	QPSK	1	37	22.54	22.31	22.28
15	QPSK	1	74	22.41	22.24	22.14
15	QPSK	36	0	21.48	21.28	21.15
15	QPSK	36	20	21.32	21.32	21.12
15	QPSK	36	39	21.44	21.41	21.13
15	QPSK	75	0	22.29	22.32	22.14
15	16QAM	1	0	21.96	21.95	21.97
15	16QAM	1	37	21.83	21.87	21.81
15	16QAM	1	74	21.66	21.54	21.54
15	16QAM	36	0	20.47	20.47	20.19
15	16QAM	36	20	20.53	20.47	20.31
15	16QAM	36	39	20.46	20.42	20.23
15	16QAM	75	0	21.42	21.41	21.27
15	64QAM	1	0	21.88	21.39	21.40
15	64QAM	1	37	21.45	21.56	21.52
15	64QAM	1	74	21.81	21.57	21.45
15	64QAM	36	0	20.55	20.41	20.15
15	64QAM	36	20	20.48	20.36	20.27
15	64QAM	36	39	20.54	20.39	20.18
15	64QAM	75	0	21.43	21.45	21.18



LTE Band2						
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	22.35	22.43	22.15
10	QPSK	1	25	22.37	22.13	22.12
10	QPSK	1	49	22.36	22.29	22.18
10	QPSK	25	0	21.33	21.28	21.07
10	QPSK	25	12	21.26	21.32	21.11
10	QPSK	25	25	21.36	21.22	21.07
10	QPSK	50	0	21.32	21.31	21.08
10	16QAM	1	0	21.42	21.33	21.39
10	16QAM	1	25	21.53	21.38	21.67
10	16QAM	1	49	21.83	21.58	21.43
10	16QAM	25	0	20.45	20.48	20.20
10	16QAM	25	12	20.42	20.44	20.26
10	16QAM	25	25	20.41	20.38	20.21
10	16QAM	50	0	20.43	20.41	20.17
10	64QAM	1	0	21.57	21.51	21.32
10	64QAM	1	25	21.69	21.66	21.36
10	64QAM	1	49	21.58	21.70	21.26
10	64QAM	25	0	20.35	20.39	20.22
10	64QAM	25	12	20.48	20.34	20.25
10	64QAM	25	25	20.46	20.32	20.13
10	64QAM	50	0	20.38	20.31	20.15



LTE Band2						
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	22.41	22.18	22.16
5	QPSK	1	12	22.31	22.23	22.09
5	QPSK	1	24	22.38	22.15	22.13
5	QPSK	12	0	21.29	21.36	21.08
5	QPSK	12	7	21.29	21.34	21.13
5	QPSK	12	13	21.23	21.32	21.11
5	QPSK	25	0	21.25	21.28	21.03
5	16QAM	1	0	21.66	21.52	21.58
5	16QAM	1	12	21.78	21.56	21.47
5	16QAM	1	24	21.66	21.65	21.38
5	16QAM	12	0	20.36	20.44	20.19
5	16QAM	12	7	20.55	20.37	20.12
5	16QAM	12	13	20.36	20.43	20.21
5	16QAM	25	0	20.32	20.41	20.19
5	64QAM	1	0	21.57	21.88	21.64
5	64QAM	1	12	21.45	21.86	21.57
5	64QAM	1	24	21.48	21.88	21.48
5	64QAM	12	0	20.37	20.42	20.23
5	64QAM	12	7	20.40	20.43	20.25
5	64QAM	12	13	20.41	20.27	20.11
5	64QAM	25	0	20.25	20.38	20.21



LTE Band2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.37	22.28	22.01
3	QPSK	1	8	22.44	22.26	22.12
3	QPSK	1	14	22.32	22.29	22.12
3	QPSK	8	0	21.33	21.17	21.05
3	QPSK	8	4	21.28	21.36	21.08
3	QPSK	8	7	21.31	21.25	21.15
3	QPSK	15	0	21.26	21.22	21.09
3	16QAM	1	0	21.46	21.82	21.48
3	16QAM	1	8	21.91	21.81	21.66
3	16QAM	1	14	21.78	21.48	21.63
3	16QAM	8	0	20.38	20.43	20.22
3	16QAM	8	4	20.43	20.38	20.28
3	16QAM	8	7	20.46	20.44	20.11
3	16QAM	15	0	20.37	20.41	20.06
3	64QAM	1	0	21.54	21.42	21.54
3	64QAM	1	8	21.62	21.53	21.23
3	64QAM	1	14	21.42	21.23	21.25
3	64QAM	8	0	20.25	20.43	20.05
3	64QAM	8	4	20.43	20.36	20.26
3	64QAM	8	7	20.36	20.56	20.14
3	64QAM	15	0	20.24	20.31	20.22



LTE Band2						
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	22.31	22.09	21.93
1.4	QPSK	1	3	22.35	22.25	22.11
1.4	QPSK	1	5	22.32	22.17	21.96
1.4	QPSK	3	0	22.41	22.17	22.01
1.4	QPSK	3	1	22.33	22.26	22.03
1.4	QPSK	3	3	22.27	22.22	22.03
1.4	QPSK	6	0	21.21	21.20	21.06
1.4	16QAM	1	0	21.43	21.86	21.58
1.4	16QAM	1	3	21.51	21.84	21.58
1.4	16QAM	1	5	21.81	21.48	21.58
1.4	16QAM	3	0	21.37	21.28	21.09
1.4	16QAM	3	1	21.44	21.21	21.24
1.4	16QAM	3	3	21.23	21.46	21.47
1.4	16QAM	6	0	20.42	20.22	20.18
1.4	64QAM	1	0	21.17	21.11	21.01
1.4	64QAM	1	3	21.54	21.46	21.08
1.4	64QAM	1	5	21.39	21.77	21.22
1.4	64QAM	3	0	21.44	21.33	21.19
1.4	64QAM	3	1	21.17	21.35	20.99
1.4	64QAM	3	3	21.35	21.33	21.17
1.4	64QAM	6	0	20.36	20.16	20.17



LTE Band4						
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	22.09	22.02	22.05
20	QPSK	1	49	22.04	21.97	22.12
20	QPSK	1	99	21.97	21.91	22.17
20	QPSK	50	0	21.13	21.08	21.16
20	QPSK	50	24	21.16	21.02	21.06
20	QPSK	50	50	21.08	21.06	21.08
20	QPSK	100	0	21.16	21.09	21.12
20	16QAM	1	0	21.52	21.32	21.24
20	16QAM	1	49	21.19	21.50	21.58
20	16QAM	1	99	21.18	21.18	21.19
20	16QAM	50	0	20.27	20.11	20.13
20	16QAM	50	24	20.21	20.13	20.21
20	16QAM	50	50	20.14	20.19	20.17
20	16QAM	100	0	20.11	20.12	20.18
20	64QAM	1	0	21.31	21.28	21.18
20	64QAM	1	49	21.16	21.21	21.17
20	64QAM	1	99	21.13	21.15	21.24
20	64QAM	50	0	20.23	20.26	20.14
20	64QAM	50	24	20.18	20.14	20.18
20	64QAM	50	50	20.15	20.09	20.08
20	64QAM	100	0	20.21	20.10	20.14



LTE Band4						
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	22.19	22.03	22.07
15	QPSK	1	37	22.02	21.93	22.04
15	QPSK	1	74	21.92	22.03	22.05
15	QPSK	36	0	21.15	21.06	21.11
15	QPSK	36	20	21.05	21.15	21.20
15	QPSK	36	39	21.12	21.12	21.14
15	QPSK	75	0	21.07	21.08	21.17
15	16QAM	1	0	21.65	21.22	21.23
15	16QAM	1	37	21.24	21.51	21.66
15	16QAM	1	74	21.63	21.34	21.41
15	16QAM	36	0	20.21	20.22	20.23
15	16QAM	36	20	20.15	20.22	20.26
15	16QAM	36	39	20.22	20.21	20.20
15	16QAM	75	0	20.17	20.25	20.22
15	64QAM	1	0	21.09	21.41	21.24
15	64QAM	1	37	21.17	21.16	21.12
15	64QAM	1	74	20.92	21.02	20.96
15	64QAM	36	0	20.23	20.24	20.23
15	64QAM	36	20	20.16	20.22	20.24
15	64QAM	36	39	20.21	20.26	20.15
15	64QAM	75	0	20.27	20.14	20.22



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.27	22.03	22.12
10	QPSK	1	25	22.24	22.12	22.16
10	QPSK	1	49	22.04	22.02	22.22
10	QPSK	25	0	21.23	21.13	21.12
10	QPSK	25	12	21.16	21.17	21.17
10	QPSK	25	25	21.07	21.08	21.17
10	QPSK	50	0	21.16	21.18	21.08
10	16QAM	1	0	21.39	21.27	21.26
10	16QAM	1	25	21.61	21.25	21.39
10	16QAM	1	49	21.29	21.62	21.37
10	16QAM	25	0	20.20	20.21	20.20
10	16QAM	25	12	20.34	20.22	20.17
10	16QAM	25	25	20.11	20.06	20.31
10	16QAM	50	0	20.18	20.17	20.27
10	64QAM	1	0	21.27	21.28	21.37
10	64QAM	1	25	21.20	21.53	21.43
10	64QAM	1	49	21.17	21.28	21.61
10	64QAM	25	0	20.17	20.14	20.32
10	64QAM	25	12	20.24	20.26	20.22
10	64QAM	25	25	20.07	20.12	20.28
10	64QAM	50	0	20.18	20.11	20.24



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.12	22.04	22.2
5	QPSK	1	12	22.31	22.14	22.25
5	QPSK	1	24	21.99	22.1	22.14
5	QPSK	12	0	21.21	21.06	21.23
5	QPSK	12	7	21.18	21.11	21.24
5	QPSK	12	13	21.09	21.07	21.24
5	QPSK	25	0	21.13	21.14	21.23
5	16QAM	1	0	21.68	21.61	21.31
5	16QAM	1	12	21.71	21.51	21.29
5	16QAM	1	24	21.48	21.28	21.29
5	16QAM	12	0	20.31	20.28	20.33
5	16QAM	12	7	20.27	20.28	20.27
5	16QAM	12	13	20.23	20.17	20.37
5	16QAM	25	0	20.29	20.28	20.36
5	64QAM	1	0	21.31	21.04	21.33
5	64QAM	1	12	21.06	21.07	21.28
5	64QAM	1	24	20.93	21.08	21.17
5	64QAM	12	0	20.17	20.22	20.21
5	64QAM	12	7	20.22	20.12	20.35
5	64QAM	12	13	20.28	20.17	20.34
5	64QAM	25	0	20.21	20.23	20.32



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.08	22.05	22.16
3	QPSK	1	8	22.36	22.04	22.16
3	QPSK	1	14	22.11	22.09	22.17
3	QPSK	8	0	21.16	21.07	21.27
3	QPSK	8	4	21.14	21.12	21.26
3	QPSK	8	7	21.18	21.07	21.21
3	QPSK	15	0	21.12	21.06	21.24
3	16QAM	1	0	21.44	21.27	21.36
3	16QAM	1	8	21.33	21.01	21.51
3	16QAM	1	14	21.21	21.3	21.25
3	16QAM	8	0	20.32	20.36	20.34
3	16QAM	8	4	20.21	20.15	20.36
3	16QAM	8	7	20.26	20.21	20.38
3	16QAM	15	0	20.41	20.18	20.52
3	64QAM	1	0	21.05	21.22	21.15
3	64QAM	1	8	21.32	21.31	21.12
3	64QAM	1	14	21.65	21.28	21.35
3	64QAM	8	0	20.41	20.22	20.29
3	64QAM	8	4	20.18	20.25	20.37
3	64QAM	8	7	20.16	20.15	20.31
3	64QAM	15	0	20.26	20.31	20.38



LTE Band4						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.12	21.96	22.02
1.4	QPSK	1	3	22.25	22.06	22.16
1.4	QPSK	1	5	22.12	22.01	22.07
1.4	QPSK	3	0	22.09	22.09	22.16
1.4	QPSK	3	1	22.17	22.19	22.22
1.4	QPSK	3	3	22.13	22.04	22.18
1.4	QPSK	6	0	20.99	21.19	21.22
1.4	16QAM	1	0	21.44	21.35	21.66
1.4	16QAM	1	3	21.25	21.32	21.31
1.4	16QAM	1	5	21.31	21.64	21.43
1.4	16QAM	3	0	21.24	21.20	21.07
1.4	16QAM	3	1	21.02	21.24	21.26
1.4	16QAM	3	3	21.16	21.16	21.27
1.4	16QAM	6	0	20.42	20.22	20.36
1.4	64QAM	1	0	21.11	21.51	21.34
1.4	64QAM	1	3	21.26	21.09	21.73
1.4	64QAM	1	5	21.53	20.91	21.62
1.4	64QAM	3	0	21.02	21.19	21.29
1.4	64QAM	3	1	21.40	21.27	21.33
1.4	64QAM	3	3	21.22	21.01	21.44
1.4	64QAM	6	0	20.17	20.07	20.22



LTE Band5						
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	22.82	22.75	22.66
10	QPSK	1	25	22.68	22.65	22.78
10	QPSK	1	49	22.68	22.77	22.79
10	QPSK	25	0	21.69	21.79	21.75
10	QPSK	25	12	21.81	21.78	21.81
10	QPSK	25	25	21.72	21.64	21.81
10	QPSK	50	0	21.74	21.75	21.76
10	16QAM	1	0	22.27	21.83	22.29
10	16QAM	1	25	21.86	22.60	22.21
10	16QAM	1	49	22.02	21.95	22.15
10	16QAM	25	0	20.78	20.89	20.95
10	16QAM	25	12	20.80	20.79	20.79
10	16QAM	25	25	20.75	20.82	20.93
10	16QAM	50	0	20.93	20.77	20.85
10	64QAM	1	0	22.15	21.87	21.92
10	64QAM	1	25	21.98	21.75	21.78
10	64QAM	1	49	21.72	21.81	21.91
10	64QAM	25	0	20.73	20.91	20.89
10	64QAM	25	12	20.72	20.87	20.86
10	64QAM	25	25	20.74	20.79	20.87
10	64QAM	50	0	20.75	20.83	20.77



LTE Band5						
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	22.78	22.62	22.85
5	QPSK	1	12	22.74	22.63	22.72
5	QPSK	1	24	22.68	22.65	22.63
5	QPSK	12	0	21.81	21.79	21.79
5	QPSK	12	7	21.72	21.69	21.80
5	QPSK	12	13	21.77	21.66	21.83
5	QPSK	25	0	21.72	21.71	21.84
5	16QAM	1	0	21.99	22.19	21.91
5	16QAM	1	12	21.97	22.18	21.88
5	16QAM	1	24	21.91	22.15	21.75
5	16QAM	12	0	20.76	20.87	20.84
5	16QAM	12	7	20.93	20.91	20.87
5	16QAM	12	13	20.83	20.79	20.91
5	16QAM	25	0	20.75	20.87	20.84
5	64QAM	1	0	21.94	21.97	22.22
5	64QAM	1	12	21.86	21.87	22.31
5	64QAM	1	24	21.84	21.84	22.24
5	64QAM	12	0	20.82	20.84	20.82
5	64QAM	12	7	20.97	20.72	20.86
5	64QAM	12	13	20.74	20.81	20.89
5	64QAM	25	0	20.74	20.87	20.78



LTE Band5						
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	22.82	22.64	22.77
3	QPSK	1	8	22.68	22.61	22.76
3	QPSK	1	14	22.75	22.69	22.68
3	QPSK	8	0	21.78	21.73	21.71
3	QPSK	8	4	21.82	21.68	21.79
3	QPSK	8	7	21.66	21.65	21.74
3	QPSK	15	0	21.72	21.63	21.75
3	16QAM	1	0	22.20	22.27	22.02
3	16QAM	1	8	21.85	22.11	21.87
3	16QAM	1	14	21.95	22.19	21.92
3	16QAM	8	0	20.86	20.85	21.00
3	16QAM	8	4	20.94	21.01	20.91
3	16QAM	8	7	20.89	20.81	20.93
3	16QAM	15	0	20.92	20.82	20.81
3	64QAM	1	0	21.63	21.88	21.72
3	64QAM	1	8	21.91	21.88	21.83
3	64QAM	1	14	21.84	21.83	21.86
3	64QAM	8	0	20.72	20.73	20.89
3	64QAM	8	4	20.81	21.02	21.02
3	64QAM	8	7	20.78	20.73	20.82
3	64QAM	15	0	20.94	20.86	20.92



LTE Band5						
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	22.54	22.55	22.67
1.4	QPSK	1	3	22.65	22.55	22.71
1.4	QPSK	1	5	22.61	22.58	22.65
1.4	QPSK	3	0	22.71	22.53	22.72
1.4	QPSK	3	1	22.74	22.58	22.72
1.4	QPSK	3	3	22.63	22.59	22.7
1.4	QPSK	6	0	21.76	21.57	21.65
1.4	16QAM	1	0	21.87	22.10	21.81
1.4	16QAM	1	3	21.67	22.14	21.98
1.4	16QAM	1	5	21.68	21.96	21.69
1.4	16QAM	3	0	21.66	21.52	21.76
1.4	16QAM	3	1	21.80	21.74	21.85
1.4	16QAM	3	3	21.74	21.71	21.81
1.4	16QAM	6	0	20.98	20.85	20.78
1.4	64QAM	1	0	21.78	21.81	21.84
1.4	64QAM	1	3	21.91	22.16	22.21
1.4	64QAM	1	5	21.81	21.77	21.76
1.4	64QAM	3	0	21.74	21.65	21.94
1.4	64QAM	3	1	21.73	21.79	21.82
1.4	64QAM	3	3	21.84	21.61	21.96
1.4	64QAM	6	0	20.86	20.72	20.83



LTE Band7						
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	22.15	21.98	21.78
20	QPSK	1	49	22.01	21.85	22.01
20	QPSK	1	99	22.11	22.02	22.07
20	QPSK	50	0	21.08	20.97	21.01
20	QPSK	50	24	21.11	20.94	21.06
20	QPSK	50	50	21.07	21.02	21.07
20	QPSK	100	0	21.01	20.92	20.96
20	16QAM	1	0	21.57	21.38	21.46
20	16QAM	1	49	21.29	21.16	21.23
20	16QAM	1	99	21.28	21.51	21.21
20	16QAM	50	0	20.20	20.07	20.06
20	16QAM	50	24	20.18	20.15	20.17
20	16QAM	50	50	20.23	20.04	20.14
20	16QAM	100	0	20.13	20.11	20.06
20	64QAM	1	0	21.21	21.01	21.19
20	64QAM	1	49	21.18	21.07	21.21
20	64QAM	1	99	21.25	21.31	21.31
20	64QAM	50	0	20.14	20.02	20.15
20	64QAM	50	24	20.25	20.06	20.04
20	64QAM	50	50	20.13	20.15	20.04
20	64QAM	100	0	20.17	20.13	20.07



LTE Band7						
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	22.12	21.83	21.95
15	QPSK	1	37	22.13	21.87	21.98
15	QPSK	1	74	22.18	21.99	22.09
15	QPSK	36	0	21.05	20.91	21.02
15	QPSK	36	20	21.13	21.02	21.08
15	QPSK	36	39	21.12	20.96	20.99
15	QPSK	75	0	21.02	20.92	20.95
15	16QAM	1	0	21.24	21.23	21.57
15	16QAM	1	37	21.40	21.22	21.16
15	16QAM	1	74	21.54	21.36	21.56
15	16QAM	36	0	20.18	20.02	20.11
15	16QAM	36	20	20.22	20.03	20.16
15	16QAM	36	39	20.21	20.14	20.13
15	16QAM	75	0	20.28	20.09	20.11
15	64QAM	1	0	21.47	21.47	21.21
15	64QAM	1	37	21.21	21.02	21.49
15	64QAM	1	74	21.30	21.29	21.39
15	64QAM	36	0	20.19	20.09	20.08
15	64QAM	36	20	20.21	20.19	20.12
15	64QAM	36	39	20.22	20.11	20.09
15	64QAM	75	0	20.26	20.01	20.08



LTE Band7						
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	22.20	21.86	21.91
10	QPSK	1	25	22.32	21.93	22.04
10	QPSK	1	49	22.14	22.01	21.94
10	QPSK	25	0	21.06	21.00	21.02
10	QPSK	25	12	21.11	20.93	21.07
10	QPSK	25	25	21.11	20.96	21.13
10	QPSK	50	0	21.12	20.95	21.04
10	16QAM	1	0	21.56	21.51	21.59
10	16QAM	1	25	21.41	21.22	21.28
10	16QAM	1	49	21.47	21.15	21.22
10	16QAM	25	0	20.14	20.06	20.09
10	16QAM	25	12	20.22	20.06	20.19
10	16QAM	25	25	20.15	20.21	20.32
10	16QAM	50	0	20.19	20.12	20.02
10	64QAM	1	0	21.21	21.18	21.08
10	64QAM	1	25	21.25	21.12	21.22
10	64QAM	1	49	21.31	21.08	21.07
10	64QAM	25	0	20.13	20.04	20.09
10	64QAM	25	12	20.16	20.08	20.12
10	64QAM	25	25	20.15	20.11	20.23
10	64QAM	50	0	20.17	20.09	20.11



LTE Band7						
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	22.02	21.92	22.09
5	QPSK	1	12	21.96	21.85	22.01
5	QPSK	1	24	22.11	21.93	22.04
5	QPSK	12	0	21.23	20.99	21.03
5	QPSK	12	7	21.24	20.98	21.11
5	QPSK	12	13	21.04	20.98	21.12
5	QPSK	25	0	21.06	20.96	21.08
5	16QAM	1	0	21.02	21.23	21.17
5	16QAM	1	12	21.23	21.53	21.20
5	16QAM	1	24	21.20	21.47	21.26
5	16QAM	12	0	20.26	20.13	20.22
5	16QAM	12	7	20.14	20.13	20.31
5	16QAM	12	13	20.22	20.15	20.23
5	16QAM	25	0	20.19	20.10	20.11
5	64QAM	1	0	21.33	21.14	21.45
5	64QAM	1	12	21.32	21.22	21.52
5	64QAM	1	24	21.12	21.27	21.56
5	64QAM	12	0	20.23	20.13	20.18
5	64QAM	12	7	20.11	20.03	20.27
5	64QAM	12	13	20.13	20.13	20.21
5	64QAM	25	0	20.24	20.04	20.11



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	22.28	22.44	22.22
20	QPSK	1	49	22.42	22.22	22.42
20	QPSK	1	99	22.26	22.25	22.41
20	QPSK	50	0	21.70	21.53	21.54
20	QPSK	50	24	21.52	21.35	21.31
20	QPSK	50	50	21.49	21.45	21.44
20	QPSK	100	0	21.56	21.49	21.42
20	16QAM	1	0	22.03	21.93	21.86
20	16QAM	1	49	21.85	21.66	21.82
20	16QAM	1	99	21.64	21.58	21.66
20	16QAM	50	0	20.84	20.61	20.52
20	16QAM	50	24	20.64	20.55	20.55
20	16QAM	50	50	20.63	20.54	20.61
20	16QAM	100	0	20.61	20.57	20.53
20	64QAM	1	0	21.93	21.84	21.87
20	64QAM	1	49	21.74	21.71	21.64
20	64QAM	1	99	21.61	21.57	21.58
20	64QAM	50	0	20.73	20.41	20.55
20	64QAM	50	24	20.67	20.54	20.46
20	64QAM	50	50	20.55	20.46	20.54
20	64QAM	100	0	20.65	20.56	20.57



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	22.52	22.46	22.23
15	QPSK	1	37	22.42	22.13	22.47
15	QPSK	1	74	22.43	22.40	22.38
15	QPSK	36	0	21.68	21.44	21.48
15	QPSK	36	20	21.65	21.52	21.53
15	QPSK	36	39	21.62	21.46	21.52
15	QPSK	75	0	21.56	21.48	21.42
15	16QAM	1	0	21.83	21.77	21.67
15	16QAM	1	37	21.66	21.48	21.63
15	16QAM	1	74	21.83	21.75	21.76
15	16QAM	36	0	20.77	20.48	20.41
15	16QAM	36	20	20.62	20.47	20.56
15	16QAM	36	39	20.53	20.42	20.56
15	16QAM	75	0	20.51	20.47	20.37
15	64QAM	1	0	21.63	21.45	21.36
15	64QAM	1	37	21.55	21.45	21.71
15	64QAM	1	74	21.45	21.39	21.51
15	64QAM	36	0	20.67	20.48	20.53
15	64QAM	36	20	20.65	20.47	20.58
15	64QAM	36	39	20.53	20.52	20.58
15	64QAM	75	0	20.66	20.45	20.47



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	22.42	22.37	22.48
10	QPSK	1	25	22.55	22.21	22.37
10	QPSK	1	49	22.45	22.21	22.45
10	QPSK	25	0	21.44	21.22	21.46
10	QPSK	25	12	21.48	21.36	21.46
10	QPSK	25	25	21.55	21.30	21.42
10	QPSK	50	0	21.57	21.32	21.49
10	16QAM	1	0	21.70	21.48	21.64
10	16QAM	1	25	21.67	21.56	21.71
10	16QAM	1	49	21.81	21.63	21.75
10	16QAM	25	0	20.61	20.46	20.48
10	16QAM	25	12	20.76	20.38	20.71
10	16QAM	25	25	20.62	20.43	20.50
10	16QAM	50	0	20.72	20.46	20.57
10	64QAM	1	0	21.71	21.27	21.55
10	64QAM	1	25	21.45	21.33	21.47
10	64QAM	1	49	21.56	21.58	21.52
10	64QAM	25	0	20.71	20.27	20.63
10	64QAM	25	12	20.53	20.38	20.52
10	64QAM	25	25	20.61	20.44	20.55
10	64QAM	50	0	20.52	20.36	20.48



LTE Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	22.38	22.11	22.35
5	QPSK	1	12	22.48	22.11	22.31
5	QPSK	1	24	22.59	22.21	22.41
5	QPSK	12	0	21.64	21.18	21.45
5	QPSK	12	7	21.47	21.31	21.39
5	QPSK	12	13	21.43	21.29	21.45
5	QPSK	25	0	21.56	21.36	21.47
5	16QAM	1	0	21.73	21.42	21.61
5	16QAM	1	12	21.82	21.42	21.72
5	16QAM	1	24	21.77	21.64	21.82
5	16QAM	12	0	20.67	20.37	20.54
5	16QAM	12	7	20.65	20.38	20.58
5	16QAM	12	13	20.57	20.38	20.51
5	16QAM	25	0	20.64	20.48	20.66
5	64QAM	1	0	21.73	21.43	21.47
5	64QAM	1	12	21.59	21.39	21.59
5	64QAM	1	24	21.65	21.43	21.62
5	64QAM	12	0	20.71	20.41	20.45
5	64QAM	12	7	20.68	20.43	20.53
5	64QAM	12	13	20.61	20.42	20.46
5	64QAM	25	0	20.65	20.25	20.48



LTE Band 40 (2305MHz ~ 2315MHz)						
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	/	22.35	/
10	QPSK	1	25	/	22.31	/
10	QPSK	1	49	/	22.33	/
10	QPSK	25	0	/	21.39	/
10	QPSK	25	12	/	21.52	/
10	QPSK	25	25	/	21.38	/
10	QPSK	50	0	/	21.38	/
10	16QAM	1	0	/	21.48	/
10	16QAM	1	25	/	21.67	/
10	16QAM	1	49	/	21.59	/
10	16QAM	25	0	/	20.43	/
10	16QAM	25	12	/	20.58	/
10	16QAM	25	25	/	20.52	/
10	16QAM	50	0	/	20.45	/
10	64QAM	1	0	/	21.48	/
10	64QAM	1	25	/	21.47	/
10	64QAM	1	49	/	21.56	/
10	64QAM	25	0	/	20.35	/
10	64QAM	25	12	/	20.49	/
10	64QAM	25	25	/	20.46	/
10	64QAM	50	0	/	20.34	/



LTE Band 40 (2305MHz ~ 2315MHz)						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				38725	38750	38775
Frequency (MHz)				2307.5	2310	2312.5
5	QPSK	1	0	22.18	22.23	22.35
5	QPSK	1	12	22.31	22.26	22.19
5	QPSK	1	24	22.36	22.36	22.26
5	QPSK	12	0	21.41	21.41	21.43
5	QPSK	12	7	21.5	21.38	21.51
5	QPSK	12	13	21.43	21.41	21.43
5	QPSK	25	0	21.24	21.42	21.35
5	16QAM	1	0	21.54	21.57	21.58
5	16QAM	1	12	21.53	21.56	21.49
5	16QAM	1	24	21.55	21.66	21.57
5	16QAM	12	0	20.45	20.43	20.58
5	16QAM	12	7	20.54	20.55	20.58
5	16QAM	12	13	20.55	20.46	20.48
5	16QAM	25	0	20.42	20.54	20.56
5	64QAM	1	0	21.36	21.49	21.51
5	64QAM	1	12	21.56	21.55	21.38
5	64QAM	1	24	21.47	21.49	21.52
5	64QAM	12	0	20.39	20.51	20.54
5	64QAM	12	7	20.48	20.51	20.53
5	64QAM	12	13	20.51	20.40	20.45
5	64QAM	25	0	20.33	20.46	20.47



LTE Band 40 (2350MHz ~ 2360MHz)						
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	/	22.38	/
10	QPSK	1	25	/	22.30	/
10	QPSK	1	49	/	22.36	/
10	QPSK	25	0	/	21.37	/
10	QPSK	25	12	/	21.40	/
10	QPSK	25	25	/	21.38	/
10	QPSK	50	0	/	21.39	/
10	16QAM	1	0	/	21.55	/
10	16QAM	1	25	/	21.65	/
10	16QAM	1	49	/	21.52	/
10	16QAM	25	0	/	20.54	/
10	16QAM	25	12	/	20.44	/
10	16QAM	25	25	/	20.45	/
10	16QAM	50	0	/	20.54	/
10	64QAM	1	0	/	21.47	/
10	64QAM	1	25	/	21.45	/
10	64QAM	1	49	/	21.47	/
10	64QAM	25	0	/	20.47	/
10	64QAM	25	12	/	20.48	/
10	64QAM	25	25	/	20.46	/
10	64QAM	50	0	/	20.42	/



LTE Band 40 (2350MHz ~ 2360MHz)						
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	22.26	22.29	22.18
5	QPSK	1	12	22.21	22.28	22.22
5	QPSK	1	24	22.25	22.21	22.34
5	QPSK	12	0	21.43	21.46	21.37
5	QPSK	12	7	21.41	21.48	21.38
5	QPSK	12	13	21.37	21.34	21.39
5	QPSK	25	0	21.33	21.33	21.35
5	16QAM	1	0	21.62	21.51	21.51
5	16QAM	1	12	21.55	21.57	21.52
5	16QAM	1	24	21.57	21.54	21.68
5	16QAM	12	0	20.48	20.52	20.41
5	16QAM	12	7	20.49	20.55	20.47
5	16QAM	12	13	20.45	20.43	20.54
5	16QAM	25	0	20.44	20.45	20.56
5	64QAM	1	0	21.38	21.53	21.42
5	64QAM	1	12	21.45	21.39	21.41
5	64QAM	1	24	21.56	21.43	21.58
5	64QAM	12	0	20.42	20.48	20.38
5	64QAM	12	7	20.51	20.47	20.40
5	64QAM	12	13	20.47	20.38	20.41
5	64QAM	25	0	20.39	20.37	20.47



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				40140	40640	41140
Frequency (MHz)				2545	2595	2645
20	QPSK	1	0	22.43	22.14	22.42
20	QPSK	1	49	22.29	22.01	22.27
20	QPSK	1	99	22.36	22.12	22.12
20	QPSK	50	0	21.59	21.37	21.53
20	QPSK	50	24	21.55	21.36	21.39
20	QPSK	50	50	21.62	21.43	21.37
20	QPSK	100	0	21.55	21.50	21.38
20	16QAM	1	0	21.61	21.58	21.83
20	16QAM	1	49	21.85	21.65	21.48
20	16QAM	1	99	21.87	21.72	21.43
20	16QAM	50	0	20.72	20.55	20.49
20	16QAM	50	24	20.71	20.56	20.59
20	16QAM	50	50	20.68	20.62	20.36
20	16QAM	100	0	20.68	20.54	20.42
20	64QAM	1	0	21.75	21.38	21.43
20	64QAM	1	49	21.72	21.32	21.28
20	64QAM	1	99	21.73	21.27	21.27
20	64QAM	50	0	20.62	20.37	20.41
20	64QAM	50	24	20.61	20.58	20.51
20	64QAM	50	50	20.68	20.42	20.39
20	64QAM	100	0	20.71	20.61	20.60



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				40115	40640	41165
Frequency (MHz)				2542.5	2595	2647.5
15	QPSK	1	0	22.53	22.16	22.36
15	QPSK	1	37	22.36	22.28	22.30
15	QPSK	1	74	22.39	22.22	22.11
15	QPSK	36	0	21.46	21.31	21.50
15	QPSK	36	20	21.52	21.55	21.51
15	QPSK	36	39	21.42	21.43	21.29
15	QPSK	75	0	21.56	21.31	21.57
15	16QAM	1	0	21.81	21.67	21.76
15	16QAM	1	37	21.67	21.34	21.37
15	16QAM	1	74	21.78	21.45	21.35
15	16QAM	36	0	20.68	20.46	20.46
15	16QAM	36	20	20.72	20.48	20.47
15	16QAM	36	39	20.64	20.58	20.35
15	16QAM	75	0	20.63	20.52	20.48
15	64QAM	1	0	21.63	21.37	21.46
15	64QAM	1	37	21.53	21.34	21.25
15	64QAM	1	74	21.48	21.36	21.26
15	64QAM	36	0	20.69	20.47	20.45
15	64QAM	36	20	20.72	20.62	20.38
15	64QAM	36	39	20.75	20.57	20.37
15	64QAM	75	0	20.71	20.52	20.46



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				40090	40640	41190
Frequency (MHz)				2540	2595	2650
10	QPSK	1	0	22.42	22.13	22.16
10	QPSK	1	25	22.53	22.32	22.28
10	QPSK	1	49	22.36	22.54	22.15
10	QPSK	25	0	21.65	21.38	21.38
10	QPSK	25	12	21.60	21.63	21.43
10	QPSK	25	25	21.66	21.42	21.32
10	QPSK	50	0	21.57	21.47	21.52
10	16QAM	1	0	21.63	21.43	21.70
10	16QAM	1	25	21.71	21.52	21.52
10	16QAM	1	49	21.81	21.57	21.43
10	16QAM	25	0	20.70	20.50	20.67
10	16QAM	25	12	20.76	20.64	20.53
10	16QAM	25	25	20.62	20.52	20.54
10	16QAM	50	0	20.75	20.56	20.53
10	64QAM	1	0	21.57	21.53	21.39
10	64QAM	1	25	21.59	21.44	21.60
10	64QAM	1	49	21.75	21.42	21.52
10	64QAM	25	0	20.61	20.51	20.41
10	64QAM	25	12	20.77	20.52	20.57
10	64QAM	25	25	20.53	20.52	20.34
10	64QAM	50	0	20.57	20.46	20.54



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				40065	40640	41215
Frequency (MHz)				2537.5	2595	2652.5
5	QPSK	1	0	22.36	22.12	22.22
5	QPSK	1	12	22.39	22.28	22.26
5	QPSK	1	24	22.43	22.36	22.15
5	QPSK	12	0	21.58	21.36	21.33
5	QPSK	12	7	21.68	21.35	21.37
5	QPSK	12	13	21.65	21.49	21.41
5	QPSK	25	0	21.63	21.42	21.35
5	16QAM	1	0	21.71	21.47	21.65
5	16QAM	1	12	21.72	21.59	21.59
5	16QAM	1	24	21.81	21.70	21.52
5	16QAM	12	0	20.60	20.54	20.55
5	16QAM	12	7	20.57	20.45	20.59
5	16QAM	12	13	20.68	20.44	20.53
5	16QAM	25	0	20.73	20.65	20.47
5	64QAM	1	0	21.59	21.37	21.57
5	64QAM	1	12	21.62	21.57	21.47
5	64QAM	1	24	21.63	21.48	21.41
5	64QAM	12	0	20.67	20.55	20.48
5	64QAM	12	7	20.62	20.49	20.43
5	64QAM	12	13	20.64	20.42	20.42
5	64QAM	25	0	20.51	20.47	20.41

Note: The measured power value of the upper antenna is larger than that of the lower antenna, and the test results are all from the upper antenna



Effective Radiated Power and Effective Isotropic Radiated Power

LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18700		18900		19100	
Frequency (MHz)				1860		1880		1900	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	23.66	0.232	23.60	0.229	23.48	0.223
20	QPSK	1	49	23.79	0.239	23.43	0.220	23.47	0.222
20	QPSK	1	99	23.44	0.221	23.56	0.227	23.36	0.217
20	QPSK	50	0	22.61	0.182	22.70	0.186	22.53	0.179
20	QPSK	50	24	22.73	0.187	22.65	0.184	22.44	0.175
20	QPSK	50	50	22.61	0.182	22.59	0.182	22.49	0.177
20	QPSK	100	0	22.64	0.184	22.62	0.183	22.56	0.180
20	16QAM	1	0	23.22	0.210	23.26	0.212	23.20	0.209
20	16QAM	1	49	22.94	0.197	22.99	0.199	22.94	0.197
20	16QAM	1	99	22.83	0.192	22.87	0.194	22.80	0.191
20	16QAM	50	0	21.70	0.148	21.78	0.151	21.67	0.147
20	16QAM	50	24	21.78	0.151	21.78	0.151	21.57	0.144
20	16QAM	50	50	21.72	0.149	21.80	0.151	21.59	0.144
20	16QAM	100	0	21.76	0.150	21.62	0.145	21.63	0.146
20	64QAM	1	0	22.86	0.193	22.97	0.198	22.67	0.185
20	64QAM	1	49	22.69	0.186	22.74	0.188	22.63	0.183
20	64QAM	1	99	22.60	0.182	22.68	0.185	22.56	0.180
20	64QAM	50	0	21.80	0.151	21.85	0.153	21.62	0.145
20	64QAM	50	24	21.84	0.153	21.73	0.149	21.59	0.144
20	64QAM	50	50	21.74	0.149	21.71	0.148	21.55	0.143
20	64QAM	100	0	21.74	0.149	21.72	0.149	21.67	0.147



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18675		18900		19125	
Frequency (MHz)				1857.5		1880		1902.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.66	0.232	23.60	0.229	23.46	0.222
15	QPSK	1	37	23.83	0.242	23.59	0.229	23.59	0.229
15	QPSK	1	74	23.70	0.234	23.53	0.225	23.43	0.220
15	QPSK	36	0	22.77	0.189	22.57	0.181	22.44	0.175
15	QPSK	36	20	22.62	0.183	22.61	0.182	22.41	0.174
15	QPSK	36	39	22.73	0.187	22.69	0.186	22.42	0.175
15	QPSK	75	0	23.60	0.229	23.61	0.230	23.43	0.220
15	16QAM	1	0	23.25	0.211	23.24	0.211	23.26	0.212
15	16QAM	1	37	23.14	0.206	23.16	0.207	23.10	0.204
15	16QAM	1	74	22.95	0.197	22.85	0.193	22.83	0.192
15	16QAM	36	0	21.76	0.150	21.76	0.150	21.48	0.141
15	16QAM	36	20	21.85	0.153	21.76	0.150	21.60	0.145
15	16QAM	36	39	21.75	0.150	21.71	0.148	21.52	0.142
15	16QAM	75	0	22.71	0.187	22.71	0.187	22.56	0.180
15	64QAM	1	0	23.17	0.207	22.69	0.186	22.69	0.186
15	64QAM	1	37	22.74	0.188	22.85	0.193	22.81	0.191
15	64QAM	1	74	23.14	0.206	22.86	0.193	22.74	0.188
15	64QAM	36	0	21.87	0.154	21.70	0.148	21.44	0.139
15	64QAM	36	20	21.77	0.150	21.65	0.146	21.56	0.143
15	64QAM	36	39	21.83	0.152	21.68	0.147	21.47	0.140
15	64QAM	75	0	22.72	0.187	22.74	0.188	22.47	0.177



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18650		18900		19150	
Frequency (MHz)				1855		1880		1905	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.64	0.231	23.74	0.237	23.44	0.221
10	QPSK	1	25	23.68	0.233	23.42	0.220	23.41	0.219
10	QPSK	1	49	23.65	0.232	23.58	0.228	23.48	0.223
10	QPSK	25	0	22.62	0.183	22.57	0.181	22.36	0.172
10	QPSK	25	12	22.55	0.180	22.61	0.182	22.39	0.173
10	QPSK	25	25	22.66	0.185	22.51	0.178	22.36	0.172
10	QPSK	50	0	22.62	0.183	22.60	0.182	22.37	0.173
10	16QAM	1	0	22.71	0.187	22.63	0.183	22.68	0.185
10	16QAM	1	25	22.82	0.191	22.69	0.186	22.96	0.198
10	16QAM	1	49	23.12	0.205	22.89	0.195	22.72	0.187
10	16QAM	25	0	21.74	0.149	21.77	0.150	21.50	0.141
10	16QAM	25	12	21.73	0.149	21.73	0.149	21.55	0.143
10	16QAM	25	25	21.70	0.148	21.67	0.147	21.50	0.141
10	16QAM	50	0	21.72	0.149	21.70	0.148	21.46	0.140
10	64QAM	1	0	22.86	0.193	22.79	0.190	22.61	0.182
10	64QAM	1	25	22.99	0.199	22.95	0.197	22.65	0.184
10	64QAM	1	49	22.87	0.194	23.00	0.200	22.55	0.180
10	64QAM	25	0	21.66	0.147	21.68	0.147	21.51	0.142
10	64QAM	25	12	21.77	0.150	21.63	0.146	21.54	0.143
10	64QAM	25	25	21.75	0.150	21.61	0.145	21.42	0.139
10	64QAM	50	0	21.69	0.148	21.62	0.145	21.44	0.139



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18625		18900		19175	
Frequency (MHz)				1852.5		1880		1907.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.72	0.236	23.47	0.222	23.45	0.221
5	QPSK	1	12	23.60	0.229	23.52	0.225	23.38	0.218
5	QPSK	1	24	23.67	0.233	23.45	0.221	23.42	0.220
5	QPSK	12	0	22.58	0.181	22.65	0.184	22.37	0.173
5	QPSK	12	7	22.59	0.182	22.63	0.183	22.42	0.175
5	QPSK	12	13	22.53	0.179	22.61	0.182	22.39	0.173
5	QPSK	25	0	22.54	0.179	22.57	0.181	22.32	0.171
5	16QAM	1	0	22.95	0.197	22.81	0.191	22.87	0.194
5	16QAM	1	12	23.09	0.204	22.85	0.193	22.76	0.189
5	16QAM	1	24	22.95	0.197	22.94	0.197	22.67	0.185
5	16QAM	12	0	21.65	0.146	21.73	0.149	21.48	0.141
5	16QAM	12	7	21.84	0.153	21.66	0.147	21.39	0.138
5	16QAM	12	13	21.69	0.148	21.72	0.149	21.50	0.141
5	16QAM	25	0	21.61	0.145	21.71	0.148	21.48	0.141
5	64QAM	1	0	22.86	0.193	23.17	0.207	22.93	0.196
5	64QAM	1	12	22.74	0.188	23.15	0.207	22.86	0.193
5	64QAM	1	24	22.78	0.190	23.17	0.207	22.77	0.189
5	64QAM	12	0	21.66	0.147	21.71	0.148	21.52	0.142
5	64QAM	12	7	21.70	0.148	21.72	0.149	21.54	0.143
5	64QAM	12	13	21.70	0.148	21.56	0.143	21.39	0.138
5	64QAM	25	0	21.54	0.143	21.68	0.147	21.50	0.141



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18615		18900		19185	
Frequency (MHz)				1851.5		1880		1908.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	23.68	0.233	23.57	0.228	23.30	0.214
3	QPSK	1	8	23.73	0.236	23.56	0.227	23.41	0.219
3	QPSK	1	14	23.62	0.230	23.58	0.228	23.41	0.219
3	QPSK	8	0	22.62	0.183	22.47	0.177	22.34	0.171
3	QPSK	8	4	22.57	0.181	22.65	0.184	22.37	0.173
3	QPSK	8	7	22.62	0.183	22.54	0.179	22.44	0.175
3	QPSK	15	0	22.55	0.180	22.51	0.178	22.38	0.173
3	16QAM	1	0	22.75	0.188	23.11	0.205	22.77	0.189
3	16QAM	1	8	23.20	0.209	23.12	0.205	22.95	0.197
3	16QAM	1	14	23.07	0.203	22.77	0.189	22.93	0.196
3	16QAM	8	0	21.68	0.147	21.72	0.149	21.51	0.142
3	16QAM	8	4	21.72	0.149	21.69	0.148	21.57	0.144
3	16QAM	8	7	21.75	0.150	21.73	0.149	21.40	0.138
3	16QAM	15	0	21.68	0.147	21.70	0.148	21.35	0.136
3	64QAM	1	0	22.83	0.192	22.71	0.187	22.84	0.192
3	64QAM	1	8	22.91	0.195	22.82	0.191	22.52	0.179
3	64QAM	1	14	22.72	0.187	22.52	0.179	22.54	0.179
3	64QAM	8	0	21.54	0.143	21.72	0.149	21.34	0.136
3	64QAM	8	4	21.72	0.149	21.66	0.147	21.55	0.143
3	64QAM	8	7	21.65	0.146	21.85	0.153	21.43	0.139
3	64QAM	15	0	21.55	0.143	21.60	0.145	21.51	0.142



LTE Band2				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				18607		18900		19193	
Frequency (MHz)				1850.7		1880		1909.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	23.60	0.229	23.40	0.219	23.22	0.210
1.4	QPSK	1	3	23.64	0.231	23.54	0.226	23.40	0.219
1.4	QPSK	1	5	23.59	0.229	23.48	0.223	23.25	0.211
1.4	QPSK	3	0	23.69	0.234	23.46	0.222	23.29	0.213
1.4	QPSK	3	1	23.62	0.230	23.55	0.226	23.32	0.215
1.4	QPSK	3	3	23.56	0.227	23.51	0.224	23.32	0.215
1.4	QPSK	6	0	22.49	0.177	22.49	0.177	22.35	0.172
1.4	16QAM	1	0	22.72	0.187	23.15	0.207	22.87	0.194
1.4	16QAM	1	3	22.81	0.191	23.13	0.206	22.87	0.194
1.4	16QAM	1	5	23.10	0.204	22.79	0.190	22.88	0.194
1.4	16QAM	3	0	22.66	0.185	22.57	0.181	22.39	0.173
1.4	16QAM	3	1	22.73	0.187	22.50	0.178	22.53	0.179
1.4	16QAM	3	3	22.53	0.179	22.75	0.188	22.76	0.189
1.4	16QAM	6	0	21.74	0.149	21.51	0.142	21.47	0.140
1.4	64QAM	1	0	22.46	0.176	22.40	0.174	22.30	0.170
1.4	64QAM	1	3	22.85	0.193	22.75	0.188	22.37	0.173
1.4	64QAM	1	5	22.68	0.185	23.06	0.202	22.54	0.179
1.4	64QAM	3	0	22.73	0.187	22.62	0.183	22.48	0.177
1.4	64QAM	3	1	22.47	0.177	22.64	0.184	22.28	0.169
1.4	64QAM	3	3	22.64	0.184	22.65	0.184	22.46	0.176
1.4	64QAM	6	0	21.65	0.146	21.45	0.140	21.46	0.140



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20050		20175		20300	
Frequency (MHz)				1720		1732.5		1745	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	23.38	0.218	23.33	0.215	23.34	0.216
20	QPSK	1	49	23.35	0.216	23.26	0.212	23.41	0.219
20	QPSK	1	99	23.26	0.212	23.23	0.210	23.46	0.222
20	QPSK	50	0	22.42	0.175	22.37	0.173	22.46	0.176
20	QPSK	50	24	22.45	0.176	22.31	0.170	22.35	0.172
20	QPSK	50	50	22.38	0.173	22.35	0.172	22.37	0.173
20	QPSK	100	0	22.45	0.176	22.38	0.173	22.41	0.174
20	16QAM	1	0	22.85	0.193	22.61	0.182	22.53	0.179
20	16QAM	1	49	22.48	0.177	22.79	0.190	22.90	0.195
20	16QAM	1	99	22.49	0.177	22.47	0.177	22.48	0.177
20	16QAM	50	0	21.56	0.143	21.41	0.138	21.42	0.139
20	16QAM	50	24	21.50	0.141	21.43	0.139	21.50	0.141
20	16QAM	50	50	21.43	0.139	21.48	0.141	21.47	0.140
20	16QAM	100	0	21.39	0.138	21.41	0.138	21.47	0.140
20	64QAM	1	0	22.60	0.182	22.58	0.181	22.47	0.177
20	64QAM	1	49	22.45	0.176	22.50	0.178	22.46	0.176
20	64QAM	1	99	22.42	0.175	22.44	0.175	22.53	0.179
20	64QAM	50	0	21.53	0.142	21.55	0.143	21.43	0.139
20	64QAM	50	24	21.47	0.140	21.43	0.139	21.47	0.140
20	64QAM	50	50	21.47	0.140	21.38	0.137	21.37	0.137
20	64QAM	100	0	21.50	0.141	21.40	0.138	21.43	0.139



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20025		20175		20325	
Frequency (MHz)				1717.5		1732.5		1747.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.48	0.223	23.34	0.216	23.36	0.217
15	QPSK	1	37	23.30	0.214	23.22	0.210	23.33	0.215
15	QPSK	1	74	23.21	0.209	23.33	0.215	23.34	0.216
15	QPSK	36	0	22.44	0.175	22.35	0.172	22.39	0.173
15	QPSK	36	20	22.37	0.173	22.44	0.175	22.49	0.177
15	QPSK	36	39	22.41	0.174	22.41	0.174	22.43	0.175
15	QPSK	75	0	22.38	0.173	22.37	0.173	22.46	0.176
15	16QAM	1	0	22.94	0.197	22.55	0.180	22.52	0.179
15	16QAM	1	37	22.53	0.179	22.79	0.190	22.95	0.197
15	16QAM	1	74	22.93	0.196	22.63	0.183	22.70	0.186
15	16QAM	36	0	21.50	0.141	21.51	0.142	21.52	0.142
15	16QAM	36	20	21.44	0.139	21.52	0.142	21.55	0.143
15	16QAM	36	39	21.51	0.142	21.50	0.141	21.50	0.141
15	16QAM	75	0	21.46	0.140	21.54	0.143	21.51	0.142
15	64QAM	1	0	22.38	0.173	22.69	0.186	22.53	0.179
15	64QAM	1	37	22.46	0.176	22.45	0.176	22.41	0.174
15	64QAM	1	74	22.22	0.167	22.31	0.170	22.25	0.168
15	64QAM	36	0	21.52	0.142	21.54	0.143	21.55	0.143
15	64QAM	36	20	21.45	0.140	21.51	0.142	21.53	0.142
15	64QAM	36	39	21.50	0.141	21.55	0.143	21.44	0.139
15	64QAM	75	0	21.58	0.144	21.43	0.139	21.49	0.141



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20000		20175		20350	
Frequency (MHz)				1715		1732.5		1750	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.58	0.228	23.32	0.215	23.41	0.219
10	QPSK	1	25	23.53	0.225	23.41	0.219	23.45	0.221
10	QPSK	1	49	23.36	0.217	23.35	0.216	23.51	0.224
10	QPSK	25	0	22.52	0.179	22.42	0.175	22.41	0.174
10	QPSK	25	12	22.45	0.176	22.46	0.176	22.46	0.176
10	QPSK	25	25	22.36	0.172	22.37	0.173	22.46	0.176
10	QPSK	50	0	22.47	0.177	22.47	0.177	22.37	0.173
10	16QAM	1	0	22.68	0.185	22.57	0.181	22.55	0.180
10	16QAM	1	25	22.91	0.195	22.54	0.179	22.68	0.185
10	16QAM	1	49	22.58	0.181	22.91	0.195	22.68	0.185
10	16QAM	25	0	21.49	0.141	21.50	0.141	21.50	0.141
10	16QAM	25	12	21.63	0.146	21.49	0.141	21.46	0.140
10	16QAM	25	25	21.39	0.138	21.38	0.137	21.60	0.145
10	16QAM	50	0	21.47	0.140	21.46	0.140	21.56	0.143
10	64QAM	1	0	22.56	0.180	22.57	0.181	22.66	0.185
10	64QAM	1	25	22.50	0.178	22.82	0.191	22.72	0.187
10	64QAM	1	49	22.46	0.176	22.57	0.181	22.90	0.195
10	64QAM	25	0	21.47	0.140	21.45	0.140	21.61	0.145
10	64QAM	25	12	21.53	0.142	21.55	0.143	21.51	0.142
10	64QAM	25	25	21.36	0.137	21.45	0.140	21.57	0.144
10	64QAM	50	0	21.47	0.140	21.39	0.138	21.53	0.142



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19975		20175		20375	
Frequency (MHz)				1712.5		1732.5		1752.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.44	0.221	23.33	0.215	23.49	0.223
5	QPSK	1	12	23.59	0.229	23.45	0.221	23.54	0.226
5	QPSK	1	24	23.28	0.213	23.39	0.218	23.43	0.220
5	QPSK	12	0	22.50	0.178	22.35	0.172	22.53	0.179
5	QPSK	12	7	22.47	0.177	22.40	0.174	22.53	0.179
5	QPSK	12	13	22.39	0.173	22.39	0.173	22.53	0.179
5	QPSK	25	0	22.42	0.175	22.45	0.176	22.52	0.179
5	16QAM	1	0	22.99	0.199	22.90	0.195	22.60	0.182
5	16QAM	1	12	23.00	0.200	22.80	0.191	22.58	0.181
5	16QAM	1	24	22.79	0.190	22.57	0.181	22.58	0.181
5	16QAM	12	0	21.60	0.145	21.57	0.144	21.62	0.145
5	16QAM	12	7	21.59	0.144	21.57	0.144	21.67	0.147
5	16QAM	12	13	21.52	0.142	21.46	0.140	21.66	0.147
5	16QAM	25	0	21.58	0.144	21.57	0.144	21.65	0.146
5	64QAM	1	0	22.61	0.182	22.33	0.171	22.62	0.183
5	64QAM	1	12	22.35	0.172	22.36	0.172	22.57	0.181
5	64QAM	1	24	22.22	0.167	22.37	0.173	22.46	0.176
5	64QAM	12	0	21.46	0.140	21.51	0.142	21.50	0.141
5	64QAM	12	7	21.51	0.142	21.41	0.138	21.65	0.146
5	64QAM	12	13	21.59	0.144	21.46	0.140	21.63	0.146
5	64QAM	25	0	21.50	0.141	21.52	0.142	21.61	0.145



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19965		20175		20385	
Frequency (MHz)				1711.5		1732.5		1753.5	
				dbm	W	dbm	W	dbm	W
3	QPSK	1	0	23.38	0.218	23.34	0.216	23.45	0.221
3	QPSK	1	8	23.65	0.232	23.35	0.216	23.45	0.221
3	QPSK	1	14	23.40	0.219	23.38	0.218	23.46	0.222
3	QPSK	8	0	22.45	0.176	22.36	0.172	22.56	0.180
3	QPSK	8	4	22.46	0.176	22.41	0.174	22.56	0.180
3	QPSK	8	7	22.47	0.177	22.37	0.173	22.50	0.178
3	QPSK	15	0	22.45	0.176	22.35	0.172	22.53	0.179
3	16QAM	1	0	22.73	0.187	22.58	0.181	22.65	0.184
3	16QAM	1	8	22.62	0.183	22.30	0.170	22.80	0.191
3	16QAM	1	14	22.51	0.178	22.59	0.182	22.54	0.179
3	16QAM	8	0	21.59	0.144	21.65	0.146	21.63	0.146
3	16QAM	8	4	21.49	0.141	21.44	0.139	21.66	0.147
3	16QAM	8	7	21.55	0.143	21.49	0.141	21.67	0.147
3	16QAM	15	0	21.70	0.148	21.47	0.140	21.81	0.152
3	64QAM	1	0	22.34	0.171	22.51	0.178	22.44	0.175
3	64QAM	1	8	22.62	0.183	22.60	0.182	22.41	0.174
3	64QAM	1	14	22.94	0.197	22.58	0.181	22.64	0.184
3	64QAM	8	0	21.70	0.148	21.51	0.142	21.58	0.144
3	64QAM	8	4	21.47	0.140	21.54	0.143	21.66	0.147
3	64QAM	8	7	21.46	0.140	21.44	0.139	21.60	0.145
3	64QAM	15	0	21.55	0.143	21.60	0.145	21.67	0.147



LTE Band4				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				19957		20175		20393	
Frequency (MHz)				1710.7		1732.5		1754.3	
				dbm	W	dbm	W	dbm	W
1.4	QPSK	1	0	23.43	0.220	23.25	0.211	23.38	0.218
1.4	QPSK	1	3	23.54	0.226	23.36	0.217	23.45	0.221
1.4	QPSK	1	5	23.41	0.219	23.30	0.214	23.36	0.217
1.4	QPSK	3	0	23.38	0.218	23.38	0.218	23.45	0.221
1.4	QPSK	3	1	23.47	0.222	23.48	0.223	23.51	0.224
1.4	QPSK	3	3	23.42	0.220	23.38	0.218	23.47	0.222
1.4	QPSK	6	0	22.28	0.169	22.48	0.177	22.49	0.177
1.4	16QAM	1	0	22.73	0.187	22.64	0.184	22.95	0.197
1.4	16QAM	1	3	22.54	0.179	22.59	0.182	22.63	0.183
1.4	16QAM	1	5	22.59	0.182	22.93	0.196	22.72	0.187
1.4	16QAM	3	0	22.53	0.179	22.49	0.177	22.36	0.172
1.4	16QAM	3	1	22.31	0.170	22.53	0.179	22.55	0.180
1.4	16QAM	3	3	22.45	0.176	22.47	0.177	22.56	0.180
1.4	16QAM	6	0	21.74	0.149	21.51	0.142	21.65	0.146
1.4	64QAM	1	0	22.40	0.174	22.80	0.191	22.63	0.183
1.4	64QAM	1	3	22.55	0.180	22.38	0.173	23.02	0.200
1.4	64QAM	1	5	22.82	0.191	22.19	0.166	22.89	0.195
1.4	64QAM	3	0	22.30	0.170	22.48	0.177	22.58	0.181
1.4	64QAM	3	1	22.73	0.187	22.56	0.180	22.62	0.183
1.4	64QAM	3	3	22.51	0.178	22.30	0.170	22.73	0.187
1.4	64QAM	6	0	21.48	0.141	21.36	0.137	21.51	0.142



LTE Band5				Measured ERP					
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	21.38	0.137	21.29	0.135	21.20	0.132
10	QPSK	1	25	21.22	0.132	21.21	0.132	21.32	0.136
10	QPSK	1	49	21.22	0.132	21.31	0.135	21.33	0.136
10	QPSK	25	0	20.23	0.105	20.33	0.108	20.29	0.107
10	QPSK	25	12	20.35	0.108	20.32	0.108	20.34	0.108
10	QPSK	25	25	20.29	0.107	20.18	0.104	20.34	0.108
10	QPSK	50	0	20.28	0.107	20.31	0.107	20.30	0.107
10	16QAM	1	0	20.84	0.121	20.37	0.109	20.83	0.121
10	16QAM	1	25	20.40	0.110	20.81	0.121	20.75	0.119
10	16QAM	1	49	20.55	0.114	20.49	0.112	20.69	0.117
10	16QAM	25	0	19.32	0.086	19.43	0.088	19.49	0.089
10	16QAM	25	12	19.36	0.086	19.33	0.086	19.33	0.086
10	16QAM	25	25	19.29	0.085	19.36	0.086	19.48	0.089
10	16QAM	50	0	19.47	0.089	19.34	0.086	19.39	0.087
10	64QAM	1	0	20.69	0.117	20.41	0.110	20.46	0.111
10	64QAM	1	25	20.52	0.113	20.29	0.107	20.32	0.108
10	64QAM	1	49	20.29	0.107	20.34	0.108	20.45	0.111
10	64QAM	25	0	19.32	0.086	19.45	0.088	19.43	0.088
10	64QAM	25	12	19.26	0.084	19.42	0.087	19.40	0.087
10	64QAM	25	25	19.28	0.085	19.33	0.086	19.41	0.087
10	64QAM	50	0	19.30	0.085	19.37	0.086	19.31	0.085



LTE Band5				Measured ERP					
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	21.32	0.136	21.17	0.131	21.39	0.138
5	QPSK	1	12	21.28	0.134	21.17	0.131	21.26	0.134
5	QPSK	1	24	21.24	0.133	21.19	0.132	21.18	0.131
5	QPSK	12	0	20.35	0.108	20.33	0.108	20.33	0.108
5	QPSK	12	7	20.32	0.108	20.24	0.106	20.35	0.108
5	QPSK	12	13	20.31	0.107	20.20	0.105	20.37	0.109
5	QPSK	25	0	20.28	0.107	20.24	0.106	20.39	0.109
5	16QAM	1	0	20.53	0.113	20.73	0.118	20.45	0.111
5	16QAM	1	12	20.51	0.112	20.72	0.118	20.44	0.111
5	16QAM	1	24	20.45	0.111	20.69	0.117	20.29	0.107
5	16QAM	12	0	19.31	0.085	19.41	0.087	19.38	0.087
5	16QAM	12	7	19.47	0.089	19.45	0.088	19.42	0.087
5	16QAM	12	13	19.37	0.086	19.33	0.086	19.45	0.088
5	16QAM	25	0	19.29	0.085	19.44	0.088	19.38	0.087
5	64QAM	1	0	20.48	0.112	20.51	0.112	20.76	0.119
5	64QAM	1	12	20.44	0.111	20.40	0.110	20.85	0.122
5	64QAM	1	24	20.38	0.109	20.38	0.109	20.80	0.120
5	64QAM	12	0	19.36	0.086	19.38	0.087	19.36	0.086
5	64QAM	12	7	19.51	0.089	19.26	0.084	19.40	0.087
5	64QAM	12	13	19.28	0.085	19.35	0.086	19.43	0.088
5	64QAM	25	0	19.30	0.085	19.41	0.087	19.32	0.086



LTE Band5				Measured ERP					
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	21.39	0.138	21.18	0.131	21.31	0.135
3	QPSK	1	8	21.22	0.132	21.16	0.131	21.30	0.135
3	QPSK	1	14	21.29	0.135	21.23	0.133	21.24	0.133
3	QPSK	8	0	20.34	0.108	20.27	0.106	20.25	0.106
3	QPSK	8	4	20.36	0.109	20.22	0.105	20.33	0.108
3	QPSK	8	7	20.24	0.106	20.24	0.106	20.28	0.107
3	QPSK	15	0	20.29	0.107	20.17	0.104	20.29	0.107
3	16QAM	1	0	20.75	0.119	20.81	0.121	20.56	0.114
3	16QAM	1	8	20.39	0.109	20.67	0.117	20.44	0.111
3	16QAM	1	14	20.49	0.112	20.73	0.118	20.46	0.111
3	16QAM	8	0	19.40	0.087	19.39	0.087	19.54	0.090
3	16QAM	8	4	19.50	0.089	19.54	0.090	19.45	0.088
3	16QAM	8	7	19.43	0.088	19.35	0.086	19.47	0.089
3	16QAM	15	0	19.48	0.089	19.36	0.086	19.36	0.086
3	64QAM	1	0	20.17	0.104	20.42	0.110	20.26	0.106
3	64QAM	1	8	20.45	0.111	20.44	0.111	20.40	0.110
3	64QAM	1	14	20.38	0.109	20.37	0.109	20.40	0.110
3	64QAM	8	0	19.29	0.085	19.27	0.085	19.43	0.088
3	64QAM	8	4	19.35	0.086	19.56	0.090	19.56	0.090
3	64QAM	8	7	19.34	0.086	19.27	0.085	19.36	0.086
3	64QAM	15	0	19.48	0.089	19.43	0.088	19.46	0.088



LTE Band5				Measured ERP					
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	21.10	0.129	21.09	0.129	21.21	0.132
1.4	QPSK	1	3	21.19	0.132	21.13	0.130	21.26	0.134
1.4	QPSK	1	5	21.15	0.130	21.12	0.129	21.19	0.132
1.4	QPSK	3	0	21.26	0.134	21.09	0.129	21.29	0.135
1.4	QPSK	3	1	21.28	0.134	21.14	0.130	21.26	0.134
1.4	QPSK	3	3	21.17	0.131	21.13	0.130	21.24	0.133
1.4	QPSK	6	0	20.32	0.108	20.13	0.103	20.18	0.104
1.4	16QAM	1	0	20.41	0.110	20.65	0.116	20.35	0.108
1.4	16QAM	1	3	20.24	0.106	20.68	0.117	20.52	0.113
1.4	16QAM	1	5	20.22	0.105	20.52	0.113	20.23	0.105
1.4	16QAM	3	0	20.20	0.105	20.06	0.101	20.31	0.107
1.4	16QAM	3	1	20.35	0.108	20.28	0.107	20.39	0.109
1.4	16QAM	3	3	20.28	0.107	20.26	0.106	20.35	0.108
1.4	16QAM	6	0	19.52	0.090	19.39	0.087	19.34	0.086
1.4	64QAM	1	0	20.32	0.108	20.35	0.108	20.38	0.109
1.4	64QAM	1	3	20.46	0.111	20.73	0.118	20.74	0.119
1.4	64QAM	1	5	20.35	0.108	20.31	0.107	20.30	0.107
1.4	64QAM	3	0	20.30	0.107	20.21	0.105	20.49	0.112
1.4	64QAM	3	1	20.27	0.106	20.33	0.108	20.38	0.109
1.4	64QAM	3	3	20.38	0.109	20.15	0.104	20.50	0.112
1.4	64QAM	6	0	19.41	0.087	19.26	0.084	19.37	0.086



LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20850		21100		21350	
Frequency (MHz)				2510		2535		2560	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	23.46	0.222	23.29	0.213	23.07	0.203
20	QPSK	1	49	23.30	0.214	23.14	0.206	23.29	0.213
20	QPSK	1	99	23.39	0.218	23.33	0.215	23.38	0.218
20	QPSK	50	0	22.37	0.173	22.26	0.168	22.30	0.170
20	QPSK	50	24	22.40	0.174	22.23	0.167	22.35	0.172
20	QPSK	50	50	22.36	0.172	22.29	0.169	22.36	0.172
20	QPSK	100	0	22.32	0.171	22.22	0.167	22.28	0.169
20	16QAM	1	0	22.86	0.193	22.69	0.186	22.76	0.189
20	16QAM	1	49	22.58	0.181	22.45	0.176	22.52	0.179
20	16QAM	1	99	22.57	0.181	22.82	0.191	22.50	0.178
20	16QAM	50	0	21.50	0.141	21.36	0.137	21.36	0.137
20	16QAM	50	24	21.47	0.140	21.44	0.139	21.46	0.140
20	16QAM	50	50	21.52	0.142	21.34	0.136	21.43	0.139
20	16QAM	100	0	21.43	0.139	21.40	0.138	21.37	0.137
20	64QAM	1	0	22.50	0.178	22.31	0.170	22.48	0.177
20	64QAM	1	49	22.47	0.177	22.36	0.172	22.50	0.178
20	64QAM	1	99	22.57	0.181	22.60	0.182	22.60	0.182
20	64QAM	50	0	21.45	0.140	21.33	0.136	21.44	0.139
20	64QAM	50	24	21.54	0.143	21.35	0.136	21.37	0.137
20	64QAM	50	50	21.42	0.139	21.45	0.140	21.33	0.136
20	64QAM	100	0	21.48	0.141	21.44	0.139	21.36	0.137



LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20825		21100		21375	
Frequency (MHz)				2507.5		2535		2562.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.43	0.220	23.17	0.207	23.26	0.212
15	QPSK	1	37	23.44	0.221	23.19	0.208	23.27	0.212
15	QPSK	1	74	23.47	0.222	23.28	0.213	23.39	0.218
15	QPSK	36	0	22.38	0.173	22.21	0.166	22.32	0.171
15	QPSK	36	20	22.42	0.175	22.31	0.170	22.37	0.173
15	QPSK	36	39	22.41	0.174	22.25	0.168	22.28	0.169
15	QPSK	75	0	22.33	0.171	22.21	0.166	22.24	0.167
15	16QAM	1	0	22.56	0.180	22.49	0.177	22.86	0.193
15	16QAM	1	37	22.70	0.186	22.51	0.178	22.48	0.177
15	16QAM	1	74	22.83	0.192	22.65	0.184	22.85	0.193
15	16QAM	36	0	21.47	0.140	21.33	0.136	21.40	0.138
15	16QAM	36	20	21.51	0.142	21.35	0.136	21.45	0.140
15	16QAM	36	39	21.51	0.142	21.46	0.140	21.42	0.139
15	16QAM	75	0	21.57	0.144	21.39	0.138	21.40	0.138
15	64QAM	1	0	22.79	0.190	22.76	0.189	22.49	0.177
15	64QAM	1	37	22.50	0.178	22.31	0.170	22.78	0.190
15	64QAM	1	74	22.60	0.182	22.58	0.181	22.68	0.185
15	64QAM	36	0	21.48	0.141	21.38	0.137	21.37	0.137
15	64QAM	36	20	21.49	0.141	21.48	0.141	21.41	0.138
15	64QAM	36	39	21.49	0.141	21.40	0.138	21.38	0.137
15	64QAM	75	0	21.55	0.143	21.32	0.136	21.37	0.137



LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20800		21100		21400	
Frequency (MHz)				2505		2535		2565	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.50	0.224	23.18	0.208	23.20	0.209
10	QPSK	1	25	23.61	0.230	23.22	0.210	23.36	0.217
10	QPSK	1	49	23.43	0.220	23.30	0.214	23.23	0.210
10	QPSK	25	0	22.35	0.172	22.29	0.169	22.29	0.169
10	QPSK	25	12	22.40	0.174	22.24	0.167	22.36	0.172
10	QPSK	25	25	22.42	0.175	22.25	0.168	22.42	0.175
10	QPSK	50	0	22.43	0.175	22.25	0.168	22.35	0.172
10	16QAM	1	0	22.85	0.193	22.80	0.191	22.88	0.194
10	16QAM	1	25	22.69	0.186	22.49	0.177	22.57	0.181
10	16QAM	1	49	22.76	0.189	22.44	0.175	22.56	0.180
10	16QAM	25	0	21.48	0.141	21.35	0.136	21.38	0.137
10	16QAM	25	12	21.51	0.142	21.35	0.136	21.48	0.141
10	16QAM	25	25	21.44	0.139	21.49	0.141	21.61	0.145
10	16QAM	50	0	21.48	0.141	21.41	0.138	21.29	0.135
10	64QAM	1	0	22.52	0.179	22.47	0.177	22.37	0.173
10	64QAM	1	25	22.54	0.179	22.39	0.173	22.51	0.178
10	64QAM	1	49	22.64	0.184	22.40	0.174	22.36	0.172
10	64QAM	25	0	21.42	0.139	21.33	0.136	21.38	0.137
10	64QAM	25	12	21.47	0.140	21.37	0.137	21.41	0.138
10	64QAM	25	25	21.48	0.141	21.39	0.138	21.52	0.142
10	64QAM	50	0	21.46	0.140	21.39	0.138	21.44	0.139



LTE Band7				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				20775		21100		21425	
Frequency (MHz)				2502.5		2535		2567.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.33	0.215	23.28	0.213	23.38	0.218
5	QPSK	1	12	23.25	0.211	23.15	0.207	23.30	0.214
5	QPSK	1	24	23.41	0.219	23.24	0.211	23.33	0.215
5	QPSK	12	0	22.52	0.179	22.28	0.169	22.32	0.171
5	QPSK	12	7	22.53	0.179	22.29	0.169	22.39	0.173
5	QPSK	12	13	22.36	0.172	22.27	0.169	22.41	0.174
5	QPSK	25	0	22.35	0.172	22.27	0.169	22.37	0.173
5	16QAM	1	0	22.34	0.171	22.52	0.179	22.46	0.176
5	16QAM	1	12	22.54	0.179	22.82	0.191	22.49	0.177
5	16QAM	1	24	22.49	0.177	22.76	0.189	22.55	0.180
5	16QAM	12	0	21.55	0.143	21.45	0.140	21.49	0.141
5	16QAM	12	7	21.46	0.140	21.48	0.141	21.60	0.145
5	16QAM	12	13	21.53	0.142	21.45	0.140	21.52	0.142
5	16QAM	25	0	21.48	0.141	21.40	0.138	21.39	0.138
5	64QAM	1	0	22.63	0.183	22.43	0.175	22.74	0.188
5	64QAM	1	12	22.59	0.182	22.51	0.178	22.81	0.191
5	64QAM	1	24	22.41	0.174	22.56	0.180	22.86	0.193
5	64QAM	12	0	21.50	0.141	21.44	0.139	21.47	0.140
5	64QAM	12	7	21.49	0.141	21.31	0.135	21.56	0.143
5	64QAM	12	13	21.39	0.138	21.42	0.139	21.50	0.141
5	64QAM	25	0	21.53	0.142	21.34	0.136	21.41	0.138



LTE Band38				Measured EIRP					
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	23.79	0.239	23.75	0.237	23.51	0.224
20	QPSK	1	49	23.71	0.235	23.51	0.224	23.73	0.236
20	QPSK	1	99	23.57	0.228	23.59	0.229	23.71	0.235
20	QPSK	50	0	23.01	0.200	22.82	0.191	22.83	0.192
20	QPSK	50	24	22.81	0.191	22.65	0.184	22.62	0.183
20	QPSK	50	50	22.78	0.190	22.74	0.188	22.73	0.187
20	QPSK	100	0	22.99	0.199	22.78	0.190	22.71	0.187
20	16QAM	1	0	23.32	0.215	23.24	0.211	23.17	0.207
20	16QAM	1	49	23.16	0.207	22.95	0.197	23.11	0.205
20	16QAM	1	99	22.93	0.196	22.89	0.195	22.95	0.197
20	16QAM	50	0	22.13	0.163	21.89	0.155	21.81	0.152
20	16QAM	50	24	21.95	0.157	21.84	0.153	21.84	0.153
20	16QAM	50	50	21.94	0.156	21.83	0.152	21.91	0.155
20	16QAM	100	0	21.90	0.155	21.86	0.153	21.82	0.152
20	64QAM	1	0	23.25	0.211	23.13	0.206	23.16	0.207
20	64QAM	1	49	23.03	0.201	23.01	0.200	22.93	0.196
20	64QAM	1	99	22.90	0.195	22.88	0.194	22.88	0.194
20	64QAM	50	0	22.03	0.160	21.70	0.148	21.84	0.153
20	64QAM	50	24	21.96	0.157	21.86	0.153	21.77	0.150
20	64QAM	50	50	21.84	0.153	21.75	0.150	21.83	0.152
20	64QAM	100	0	21.96	0.157	21.88	0.154	21.86	0.153



LTE Band38				Measured EIRP					
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	23.81	0.240	23.75	0.237	23.52	0.225
15	QPSK	1	37	23.71	0.235	23.42	0.220	23.76	0.238
15	QPSK	1	74	23.72	0.236	23.70	0.234	23.67	0.233
15	QPSK	36	0	22.97	0.198	22.73	0.187	22.77	0.189
15	QPSK	36	20	22.94	0.197	22.81	0.191	22.82	0.191
15	QPSK	36	39	22.91	0.195	22.75	0.188	22.81	0.191
15	QPSK	75	0	22.85	0.193	22.77	0.189	22.71	0.187
15	16QAM	1	0	23.13	0.206	23.06	0.202	22.96	0.198
15	16QAM	1	37	22.97	0.198	22.77	0.189	22.92	0.196
15	16QAM	1	74	23.12	0.205	23.06	0.202	23.09	0.204
15	16QAM	36	0	22.06	0.161	21.77	0.150	21.70	0.148
15	16QAM	36	20	21.94	0.156	21.76	0.150	21.85	0.153
15	16QAM	36	39	21.82	0.152	21.71	0.148	21.85	0.153
15	16QAM	75	0	21.80	0.151	21.76	0.150	21.69	0.148
15	64QAM	1	0	22.92	0.196	22.74	0.188	22.65	0.184
15	64QAM	1	37	22.84	0.192	22.74	0.188	23.00	0.200
15	64QAM	1	74	22.74	0.188	22.68	0.185	22.80	0.191
15	64QAM	36	0	21.96	0.157	21.77	0.150	21.82	0.152
15	64QAM	36	20	21.94	0.156	21.76	0.150	21.87	0.154
15	64QAM	36	39	21.82	0.152	21.81	0.152	21.87	0.154
15	64QAM	75	0	21.98	0.158	21.74	0.149	21.79	0.151



LTE Band38				Measured EIRP					
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	23.73	0.236	23.69	0.234	23.78	0.239
10	QPSK	1	25	23.84	0.242	23.51	0.224	23.69	0.234
10	QPSK	1	49	23.74	0.237	23.49	0.223	23.74	0.237
10	QPSK	25	0	22.74	0.188	22.54	0.179	22.78	0.190
10	QPSK	25	12	22.79	0.190	22.65	0.184	22.79	0.190
10	QPSK	25	25	22.84	0.192	22.60	0.182	22.71	0.187
10	QPSK	50	0	22.86	0.193	22.64	0.184	22.78	0.190
10	16QAM	1	0	23.00	0.200	22.77	0.189	22.95	0.197
10	16QAM	1	25	22.99	0.199	22.86	0.193	23.01	0.200
10	16QAM	1	49	23.09	0.204	22.92	0.196	23.04	0.201
10	16QAM	25	0	21.89	0.155	21.75	0.150	21.79	0.151
10	16QAM	25	12	22.05	0.160	21.67	0.147	22.00	0.158
10	16QAM	25	25	21.91	0.155	21.72	0.149	21.80	0.151
10	16QAM	50	0	22.01	0.159	21.75	0.150	21.86	0.153
10	64QAM	1	0	23.00	0.200	22.56	0.180	22.84	0.192
10	64QAM	1	25	22.76	0.189	22.64	0.184	22.79	0.190
10	64QAM	1	49	22.85	0.193	22.88	0.194	22.81	0.191
10	64QAM	25	0	22.00	0.158	21.56	0.143	21.92	0.156
10	64QAM	25	12	21.85	0.153	21.69	0.148	21.82	0.152
10	64QAM	25	25	21.92	0.156	21.74	0.149	21.84	0.153
10	64QAM	50	0	21.81	0.152	21.65	0.146	21.79	0.151



LTE Band38				Measured EIRP					
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	23.70	0.234	23.40	0.219	23.64	0.231
5	QPSK	1	12	23.77	0.238	23.40	0.219	23.60	0.229
5	QPSK	1	24	23.88	0.244	23.49	0.223	23.69	0.234
5	QPSK	12	0	22.93	0.196	22.48	0.177	22.74	0.188
5	QPSK	12	7	22.79	0.190	22.60	0.182	22.68	0.185
5	QPSK	12	13	22.74	0.188	22.58	0.181	22.74	0.188
5	QPSK	25	0	22.85	0.193	22.65	0.184	22.78	0.190
5	16QAM	1	0	23.02	0.200	22.73	0.187	22.90	0.195
5	16QAM	1	12	23.11	0.205	22.71	0.187	23.01	0.200
5	16QAM	1	24	23.06	0.202	22.93	0.196	23.11	0.205
5	16QAM	12	0	21.96	0.157	21.66	0.147	21.83	0.152
5	16QAM	12	7	21.94	0.156	21.69	0.148	21.87	0.154
5	16QAM	12	13	21.88	0.154	21.67	0.147	21.80	0.151
5	16QAM	25	0	21.93	0.156	21.79	0.151	21.98	0.158
5	64QAM	1	0	23.04	0.201	22.72	0.187	22.79	0.190
5	64QAM	1	12	22.88	0.194	22.68	0.185	22.88	0.194
5	64QAM	1	24	22.95	0.197	22.73	0.187	22.91	0.195
5	64QAM	12	0	21.99	0.158	21.70	0.148	21.77	0.150
5	64QAM	12	7	21.97	0.157	21.73	0.149	21.82	0.152
5	64QAM	12	13	21.91	0.155	21.71	0.148	21.75	0.150
5	64QAM	25	0	21.94	0.156	21.59	0.144	21.80	0.151



LTE Band 40 (2305MHz ~ 2315MHz)				Measured EIRP			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	
Channel				/	38750	/	
Frequency (MHz)				/	2310	/	
				/	dbm	W	/
10	QPSK	1	0	/	23.67	0.233	/
10	QPSK	1	25	/	23.60	0.229	/
10	QPSK	1	49	/	23.63	0.231	/
10	QPSK	25	0	/	22.68	0.185	/
10	QPSK	25	12	/	22.81	0.191	/
10	QPSK	25	25	/	22.67	0.185	/
10	QPSK	50	0	/	22.69	0.186	/
10	16QAM	1	0	/	22.79	0.190	/
10	16QAM	1	25	/	22.96	0.198	/
10	16QAM	1	49	/	22.88	0.194	/
10	16QAM	25	0	/	21.74	0.149	/
10	16QAM	25	12	/	21.87	0.154	/
10	16QAM	25	25	/	21.84	0.153	/
10	16QAM	50	0	/	21.74	0.149	/
10	64QAM	1	0	/	22.78	0.190	/
10	64QAM	1	25	/	22.76	0.189	/
10	64QAM	1	49	/	22.85	0.193	/
10	64QAM	25	0	/	21.65	0.146	/
10	64QAM	25	12	/	21.78	0.151	/
10	64QAM	25	25	/	21.76	0.150	/
10	64QAM	50	0	/	21.65	0.146	/



LTE Band 40 (2305MHz ~ 2315MHz)				Measured EIRP					
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	23.47	0.222	23.53	0.225	23.64	0.231
5	QPSK	1	12	23.69	0.234	23.55	0.226	23.48	0.223
5	QPSK	1	24	23.67	0.233	23.65	0.232	23.57	0.228
5	QPSK	12	0	22.70	0.186	22.70	0.186	22.72	0.187
5	QPSK	12	7	22.79	0.190	22.67	0.185	22.79	0.190
5	QPSK	12	13	22.72	0.187	22.70	0.186	22.72	0.187
5	QPSK	25	0	22.53	0.179	22.72	0.187	22.64	0.184
5	16QAM	1	0	22.83	0.192	22.86	0.193	22.88	0.194
5	16QAM	1	12	22.85	0.193	22.85	0.193	22.78	0.190
5	16QAM	1	24	22.86	0.193	22.97	0.198	22.89	0.195
5	16QAM	12	0	21.74	0.149	21.76	0.150	21.89	0.155
5	16QAM	12	7	21.83	0.152	21.84	0.153	21.87	0.154
5	16QAM	12	13	21.86	0.153	21.77	0.150	21.79	0.151
5	16QAM	25	0	21.71	0.148	21.83	0.152	21.85	0.153
5	64QAM	1	0	22.65	0.184	22.78	0.190	22.80	0.191
5	64QAM	1	12	22.85	0.193	22.84	0.192	22.67	0.185
5	64QAM	1	24	22.77	0.189	22.78	0.190	22.81	0.191
5	64QAM	12	0	21.68	0.147	21.81	0.152	21.83	0.152
5	64QAM	12	7	21.78	0.151	21.79	0.151	21.82	0.152
5	64QAM	12	13	21.80	0.151	21.71	0.148	21.74	0.149
5	64QAM	25	0	21.63	0.146	21.75	0.150	21.78	0.151



LTE Band 40 (2350MHz ~ 2360MHz)				Measured EIRP			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	
Channel				/	39200	/	
Frequency (MHz)				/	2355	/	
				/	dbm	W	
10	QPSK	1	0	/	23.65	0.232	
10	QPSK	1	25	/	23.58	0.228	
10	QPSK	1	49	/	23.65	0.232	
10	QPSK	25	0	/	22.69	0.186	
10	QPSK	25	12	/	22.69	0.186	
10	QPSK	25	25	/	22.67	0.185	
10	QPSK	50	0	/	22.69	0.186	
10	16QAM	1	0	/	22.84	0.192	
10	16QAM	1	25	/	22.94	0.197	
10	16QAM	1	49	/	22.81	0.191	
10	16QAM	25	0	/	21.85	0.153	
10	16QAM	25	12	/	21.76	0.150	
10	16QAM	25	25	/	21.74	0.149	
10	16QAM	50	0	/	21.83	0.152	
10	64QAM	1	0	/	22.77	0.189	
10	64QAM	1	25	/	22.74	0.188	
10	64QAM	1	49	/	22.79	0.190	
10	64QAM	25	0	/	21.76	0.150	
10	64QAM	25	12	/	21.87	0.154	
10	64QAM	25	25	/	21.75	0.150	
10	64QAM	50	0	/	21.74	0.149	



LTE Band 40 (2350MHz ~ 2360MHz)				Measured EIRP					
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	23.57	0.228	23.58	0.228	23.47	0.222
5	QPSK	1	12	23.50	0.224	23.59	0.229	23.51	0.224
5	QPSK	1	24	23.56	0.227	23.51	0.224	23.65	0.232
5	QPSK	12	0	22.72	0.187	22.75	0.188	22.66	0.185
5	QPSK	12	7	22.70	0.186	22.77	0.189	22.68	0.185
5	QPSK	12	13	22.66	0.185	22.66	0.185	22.68	0.185
5	QPSK	25	0	22.65	0.184	22.62	0.183	22.64	0.184
5	16QAM	1	0	22.91	0.195	22.80	0.191	22.80	0.191
5	16QAM	1	12	22.84	0.192	22.89	0.195	22.81	0.191
5	16QAM	1	24	22.84	0.192	22.83	0.192	22.97	0.198
5	16QAM	12	0	21.79	0.151	21.82	0.152	21.73	0.149
5	16QAM	12	7	21.78	0.151	21.84	0.153	21.76	0.150
5	16QAM	12	13	21.75	0.150	21.73	0.149	21.85	0.153
5	16QAM	25	0	21.73	0.149	21.74	0.149	21.85	0.153
5	64QAM	1	0	22.68	0.185	22.82	0.191	22.72	0.187
5	64QAM	1	12	22.74	0.188	22.68	0.185	22.70	0.186
5	64QAM	1	24	22.85	0.193	22.74	0.188	22.89	0.195
5	64QAM	12	0	21.73	0.149	21.77	0.150	21.67	0.147
5	64QAM	12	7	21.80	0.151	21.79	0.151	21.71	0.148
5	64QAM	12	13	21.79	0.151	21.67	0.147	21.70	0.148
5	64QAM	25	0	21.69	0.148	21.66	0.147	21.78	0.151



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40140		40640		41140	
Frequency (MHz)				2565		2595		2645	
				dbm	W	dbm	W	dbm	W
20	QPSK	1	0	23.74	0.237	23.43	0.220	23.71	0.235
20	QPSK	1	49	23.59	0.229	23.31	0.214	23.56	0.227
20	QPSK	1	99	23.64	0.231	23.41	0.219	23.41	0.219
20	QPSK	50	0	22.88	0.194	22.67	0.185	22.82	0.191
20	QPSK	50	24	22.85	0.193	22.65	0.184	22.69	0.186
20	QPSK	50	50	22.93	0.196	22.73	0.187	22.66	0.185
20	QPSK	100	0	22.84	0.192	22.8	0.191	22.67	0.185
20	16QAM	1	0	22.90	0.195	22.89	0.195	23.15	0.207
20	16QAM	1	49	23.14	0.206	22.94	0.197	22.79	0.190
20	16QAM	1	99	23.17	0.207	23.03	0.201	22.75	0.188
20	16QAM	50	0	22.01	0.159	21.84	0.153	21.79	0.151
20	16QAM	50	24	21.99	0.158	21.85	0.153	21.88	0.154
20	16QAM	50	50	21.97	0.157	21.92	0.156	21.65	0.146
20	16QAM	100	0	21.98	0.158	21.85	0.153	21.74	0.149
20	64QAM	1	0	23.04	0.201	22.67	0.185	22.73	0.187
20	64QAM	1	49	23.03	0.201	22.61	0.182	22.57	0.181
20	64QAM	1	99	23.04	0.201	22.59	0.182	22.56	0.180
20	64QAM	50	0	21.91	0.155	21.66	0.147	21.70	0.148
20	64QAM	50	24	21.90	0.155	21.87	0.154	21.80	0.151
20	64QAM	50	50	21.99	0.158	21.73	0.149	21.68	0.147
20	64QAM	100	0	22.00	0.158	21.91	0.155	21.89	0.155



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40315		40640		41165	
Frequency (MHz)				2562.5		2595		2647.5	
				dbm	W	dbm	W	dbm	W
15	QPSK	1	0	23.82	0.241	23.45	0.221	23.65	0.232
15	QPSK	1	37	23.67	0.233	23.59	0.229	23.59	0.229
15	QPSK	1	74	23.68	0.233	23.51	0.224	23.40	0.219
15	QPSK	36	0	22.78	0.190	22.62	0.183	22.79	0.190
15	QPSK	36	20	22.81	0.191	22.84	0.192	22.80	0.191
15	QPSK	36	39	22.73	0.187	22.72	0.187	22.58	0.181
15	QPSK	75	0	22.85	0.193	22.62	0.183	22.86	0.193
15	16QAM	1	0	23.10	0.204	22.96	0.198	23.06	0.202
15	16QAM	1	37	22.96	0.198	22.63	0.183	22.66	0.185
15	16QAM	1	74	23.08	0.203	22.77	0.189	22.64	0.184
15	16QAM	36	0	21.97	0.157	21.75	0.150	21.75	0.150
15	16QAM	36	20	22.02	0.159	21.79	0.151	21.76	0.150
15	16QAM	36	39	21.93	0.156	21.87	0.154	21.65	0.146
15	16QAM	75	0	21.92	0.156	21.82	0.152	21.77	0.150
15	64QAM	1	0	22.92	0.196	22.66	0.185	22.75	0.188
15	64QAM	1	37	22.85	0.193	22.63	0.183	22.54	0.179
15	64QAM	1	74	22.79	0.190	22.64	0.184	22.55	0.180
15	64QAM	36	0	21.98	0.158	21.76	0.150	21.76	0.150
15	64QAM	36	20	22.03	0.160	21.91	0.155	21.67	0.147
15	64QAM	36	39	22.04	0.160	21.88	0.154	21.66	0.147
15	64QAM	75	0	22.00	0.158	21.81	0.152	21.75	0.150



LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40290		40640		41190	
Frequency (MHz)				2550		2595		2650	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	23.73	0.236	23.44	0.221	23.46	0.222
10	QPSK	1	25	23.83	0.242	23.61	0.230	23.57	0.228
10	QPSK	1	49	23.65	0.232	23.85	0.243	23.45	0.221
10	QPSK	25	0	22.94	0.197	22.69	0.186	22.67	0.185
10	QPSK	25	12	22.89	0.195	22.93	0.196	22.72	0.187
10	QPSK	25	25	22.95	0.197	22.69	0.186	22.61	0.182
10	QPSK	50	0	22.90	0.195	22.76	0.189	22.82	0.191
10	16QAM	1	0	22.92	0.196	22.72	0.187	22.99	0.199
10	16QAM	1	25	22.99	0.199	22.82	0.191	22.81	0.191
10	16QAM	1	49	23.10	0.204	22.86	0.193	22.74	0.188
10	16QAM	25	0	21.99	0.158	21.81	0.152	21.99	0.158
10	16QAM	25	12	22.05	0.160	21.93	0.156	21.83	0.152
10	16QAM	25	25	21.91	0.155	21.81	0.152	21.83	0.152
10	16QAM	50	0	22.05	0.160	21.85	0.153	21.82	0.152
10	64QAM	1	0	22.86	0.193	22.82	0.191	22.68	0.185
10	64QAM	1	25	22.88	0.194	22.73	0.187	22.89	0.195
10	64QAM	1	49	23.06	0.202	22.72	0.187	22.81	0.191
10	64QAM	25	0	21.90	0.155	21.82	0.152	21.70	0.148
10	64QAM	25	12	22.06	0.161	21.81	0.152	21.86	0.153
10	64QAM	25	25	21.83	0.152	21.82	0.152	21.65	0.146
10	64QAM	50	0	21.86	0.153	21.77	0.150	21.83	0.152



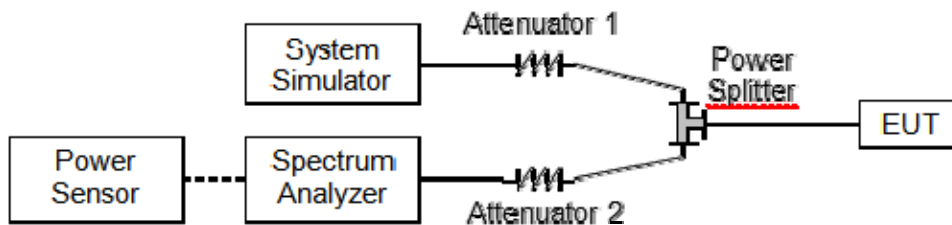
LTE Band 41				Measured EIRP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				40265		40640		41215	
Frequency (MHz)				2557.5		2595		2652.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	23.66	0.232	23.43	0.220	23.52	0.225
5	QPSK	1	12	23.68	0.233	23.57	0.228	23.55	0.226
5	QPSK	1	24	23.73	0.236	23.65	0.232	23.44	0.221
5	QPSK	12	0	22.87	0.194	22.65	0.184	22.64	0.184
5	QPSK	12	7	22.97	0.198	22.65	0.184	22.67	0.185
5	QPSK	12	13	22.94	0.197	22.78	0.190	22.70	0.186
5	QPSK	25	0	22.92	0.196	22.71	0.187	22.64	0.184
5	16QAM	1	0	23.00	0.200	22.76	0.189	22.95	0.197
5	16QAM	1	12	23.03	0.201	22.88	0.194	22.88	0.194
5	16QAM	1	24	23.10	0.204	22.99	0.199	22.80	0.191
5	16QAM	12	0	21.90	0.155	21.83	0.152	21.84	0.153
5	16QAM	12	7	21.89	0.155	21.74	0.149	21.88	0.154
5	16QAM	12	13	21.99	0.158	21.75	0.150	21.79	0.151
5	16QAM	25	0	22.02	0.159	21.94	0.156	21.78	0.151
5	64QAM	1	0	22.88	0.194	22.66	0.185	22.86	0.193
5	64QAM	1	12	22.93	0.196	22.86	0.193	22.76	0.189
5	64QAM	1	24	22.92	0.196	22.79	0.190	22.70	0.186
5	64QAM	12	0	21.96	0.157	21.84	0.153	21.77	0.150
5	64QAM	12	7	21.93	0.156	21.78	0.151	21.72	0.149
5	64QAM	12	13	21.93	0.156	21.71	0.148	21.74	0.149
5	64QAM	25	0	21.81	0.152	21.74	0.149	21.71	0.148

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 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.

2.2.3. Test procedure

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

2.2.4. Test Result



LTE Band 2				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.11	1.22
	Low	16QAM	1.09	1.24
	Low	64QAM	1.09	1.24
	Mid	QPSK	1.09	1.24
	Mid	16QAM	1.10	1.23
	Mid	64QAM	1.09	1.24
	High	QPSK	1.09	1.24
	High	16QAM	1.10	1.24
	High	64QAM	1.09	1.25
3	Low	QPSK	2.70	2.99
	Low	16QAM	2.69	2.95
	Low	64QAM	2.71	3.01
	Mid	QPSK	2.70	3.00
	Mid	16QAM	2.70	2.99
	Mid	64QAM	2.71	3.00
	High	QPSK	2.70	3.01
	High	16QAM	2.70	3.01
	High	64QAM	2.71	3.00
5	Low	QPSK	4.50	4.99
	Low	16QAM	4.50	4.94
	Low	64QAM	4.50	4.96
	Mid	QPSK	4.50	4.99
	Mid	16QAM	4.50	4.98
	Mid	64QAM	4.49	4.96
	High	QPSK	4.50	4.99
	High	16QAM	4.49	4.98
	High	64QAM	4.49	4.95
10	Low	QPSK	8.99	9.82
	Low	16QAM	8.95	9.78
	Low	64QAM	8.97	9.73
	Mid	QPSK	8.99	9.82
	Mid	16QAM	8.96	9.73
	Mid	64QAM	8.97	9.86
	High	QPSK	8.97	9.80
	High	16QAM	8.95	9.76
	High	64QAM	8.96	9.70



15	Low	QPSK	13.41	14.58
	Low	16QAM	13.39	14.60
	Low	64QAM	13.40	14.64
	Mid	QPSK	13.42	14.52
	Mid	16QAM	13.38	14.58
	Mid	64QAM	13.38	14.59
	High	QPSK	13.37	14.50
	High	16QAM	13.38	14.51
	High	64QAM	13.40	14.54
20	Low	QPSK	17.93	19.36
	Low	16QAM	17.98	19.47
	Low	64QAM	17.97	19.44
	Mid	QPSK	17.90	19.51
	Mid	16QAM	17.93	19.45
	Mid	64QAM	17.92	19.40
	High	QPSK	17.97	19.46
	High	16QAM	17.98	19.49
	High	64QAM	17.97	19.55



LTE Band 4				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.24
	Low	16QAM	1.10	1.24
	Low	64QAM	1.09	1.24
	Mid	QPSK	1.09	1.23
	Mid	16QAM	1.09	1.23
	Mid	64QAM	1.09	1.24
	High	QPSK	1.09	1.24
	High	16QAM	1.10	1.24
	High	64QAM	1.09	1.24
3	Low	QPSK	2.70	3.01
	Low	16QAM	2.70	3.01
	Low	64QAM	2.71	3.01
	Mid	QPSK	2.7	3.01
	Mid	16QAM	2.71	3.00
	Mid	64QAM	2.71	3.00
	High	QPSK	2.70	3.01
	High	16QAM	2.70	2.99
	High	64QAM	2.71	3.00
5	Low	QPSK	4.50	4.99
	Low	16QAM	4.51	4.97
	Low	64QAM	4.51	4.95
	Mid	QPSK	4.50	5.00
	Mid	16QAM	4.49	4.94
	Mid	64QAM	4.49	4.94
	High	QPSK	4.51	4.97
	High	16QAM	4.51	4.96
	High	64QAM	4.50	4.97
10	Low	QPSK	9.00	9.83
	Low	16QAM	8.98	9.80
	Low	64QAM	9.00	9.83
	Mid	QPSK	9.00	9.85
	Mid	16QAM	8.97	9.75
	Mid	64QAM	8.98	9.83
	High	QPSK	8.99	9.82
	High	16QAM	8.96	9.79
	High	64QAM	9.00	9.86



15	Low	QPSK	13.45	14.64
	Low	16QAM	13.44	14.67
	Low	64QAM	13.44	14.60
	Mid	QPSK	13.41	14.58
	Mid	16QAM	13.40	14.61
	Mid	64QAM	13.39	14.5
	High	QPSK	13.41	14.58
	High	16QAM	13.43	14.54
	High	64QAM	13.42	14.61
20	Low	QPSK	17.96	19.60
	Low	16QAM	17.99	19.53
	Low	64QAM	17.98	19.52
	Mid	QPSK	17.93	19.46
	Mid	16QAM	17.91	19.43
	Mid	64QAM	17.88	19.47
	High	QPSK	17.96	19.58
	High	16QAM	18.00	19.59
	High	64QAM	17.98	19.46



LTE Band 5				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.09	1.24
	Low	16QAM	1.10	1.23
	Low	64QAM	1.09	1.24
	Mid	QPSK	1.09	1.23
	Mid	16QAM	1.10	1.24
	Mid	64QAM	1.08	1.21
	High	QPSK	1.09	1.24
	High	16QAM	1.10	1.24
	High	64QAM	1.09	1.24
3	Low	QPSK	2.70	3.01
	Low	16QAM	2.70	3.01
	Low	64QAM	2.70	3.01
	Mid	QPSK	2.70	3.00
	Mid	16QAM	2.70	2.99
	Mid	64QAM	2.71	3.00
	High	QPSK	2.68	2.98
	High	16QAM	2.71	3.01
	High	64QAM	2.70	3.01
5	Low	QPSK	4.50	4.99
	Low	16QAM	4.51	4.98
	Low	64QAM	4.50	4.96
	Mid	QPSK	4.50	5.01
	Mid	16QAM	4.50	4.98
	Mid	64QAM	4.50	4.94
	High	QPSK	4.50	4.99
	High	16QAM	4.50	4.94
	High	64QAM	4.49	4.94
10	Low	QPSK	8.97	9.77
	Low	16QAM	8.94	9.74
	Low	64QAM	8.96	9.77
	Mid	QPSK	8.98	9.80
	Mid	16QAM	8.96	9.81
	Mid	64QAM	8.95	9.78
	High	QPSK	9.00	9.83
	High	16QAM	8.95	9.68
	High	64QAM	8.97	9.77



LTE Band7				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.51	4.96
	Low	16QAM	4.50	4.96
	Low	64QAM	4.50	4.97
	Mid	QPSK	4.51	5.01
	Mid	16QAM	4.50	4.99
	Mid	64QAM	4.50	4.94
	High	QPSK	4.50	5.02
	High	16QAM	4.51	4.97
	High	64QAM	4.50	4.96
10	Low	QPSK	9.01	9.83
	Low	16QAM	8.97	9.71
	Low	64QAM	8.97	9.75
	Mid	QPSK	9.02	9.86
	Mid	16QAM	8.97	9.78
	Mid	64QAM	8.98	9.79
	High	QPSK	9.00	9.80
	High	16QAM	8.97	9.78
	High	64QAM	8.98	9.84
15	Low	QPSK	13.43	14.53
	Low	16QAM	13.40	14.61
	Low	64QAM	13.40	14.61
	Mid	QPSK	13.41	14.64
	Mid	16QAM	13.41	14.66
	Mid	64QAM	13.41	14.59
	High	QPSK	13.40	14.61
	High	16QAM	13.41	14.66
	High	64QAM	13.43	14.59
20	Low	QPSK	17.93	19.52
	Low	16QAM	17.93	19.49
	Low	64QAM	17.96	19.49
	Mid	QPSK	17.94	19.49
	Mid	16QAM	17.97	19.41
	Mid	64QAM	17.96	19.49
	High	QPSK	17.96	19.52
	High	16QAM	17.98	19.44
	High	64QAM	17.97	19.5



LTE Band 38				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.92
	Low	16QAM	4.49	4.90
	Low	64QAM	4.49	4.83
	Mid	QPSK	4.49	5.00
	Mid	16QAM	4.48	4.85
	Mid	64QAM	4.50	4.97
	High	QPSK	4.50	4.88
	High	16QAM	4.49	4.98
	High	64QAM	4.49	4.89
10	Low	QPSK	8.92	9.46
	Low	16QAM	8.91	9.54
	Low	64QAM	8.92	9.53
	Mid	QPSK	8.93	9.60
	Mid	16QAM	8.93	9.59
	Mid	64QAM	8.92	9.59
	High	QPSK	8.92	9.46
	High	16QAM	8.92	9.54
	High	64QAM	8.91	9.53
15	Low	QPSK	13.32	14.25
	Low	16QAM	13.35	14.26
	Low	64QAM	13.36	14.03
	Mid	QPSK	13.37	14.14
	Mid	16QAM	13.35	14.14
	Mid	64QAM	13.38	14.21
	High	QPSK	13.35	14.14
	High	16QAM	13.37	14.07
	High	64QAM	13.32	14.24
20	Low	QPSK	17.80	18.71
	Low	16QAM	17.81	18.65
	Low	64QAM	17.82	19.00
	Mid	QPSK	17.84	18.74
	Mid	16QAM	17.83	18.74
	Mid	64QAM	17.80	18.62
	High	QPSK	17.80	18.69
	High	16QAM	17.79	18.77
	High	64QAM	17.81	18.80



LTE Band 40 (2305MHz ~ 2315MHz)				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.52	5.34
	Low	16QAM	4.52	5.31
	Low	64QAM	4.52	5.32
	Mid	QPSK	4.51	5.28
	Mid	16QAM	4.52	5.34
	Mid	64QAM	4.53	5.35
	High	QPSK	4.52	5.67
	High	16QAM	4.52	5.39
	High	64QAM	4.53	5.39
10	Mid	QPSK	8.93	9.71
	Mid	16QAM	8.92	9.72
	Mid	64QAM	8.94	9.65

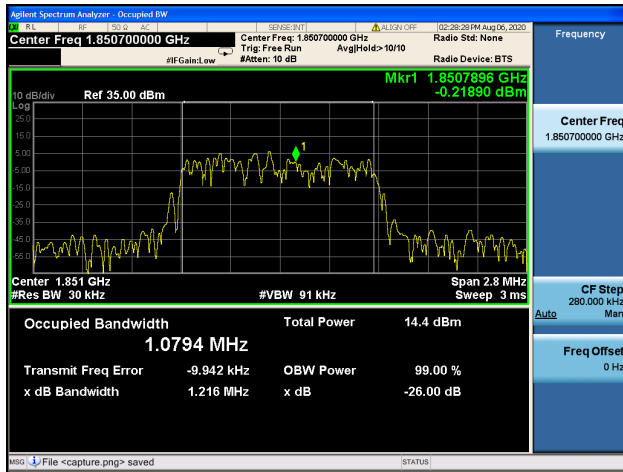
LTE Band 40(2350MHz ~ 2360MHz)				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.49	5.10
	Low	16QAM	4.49	4.97
	Low	64QAM	4.50	5.03
	Mid	QPSK	4.50	4.94
	Mid	16QAM	4.50	5.06
	Mid	64QAM	4.50	4.92
	High	QPSK	4.48	5.05
	High	16QAM	4.50	5.09
	High	64QAM	4.51	5.03
10	Mid	QPSK	8.93	9.53
	Mid	16QAM	8.91	9.47
	Mid	64QAM	8.92	10.52



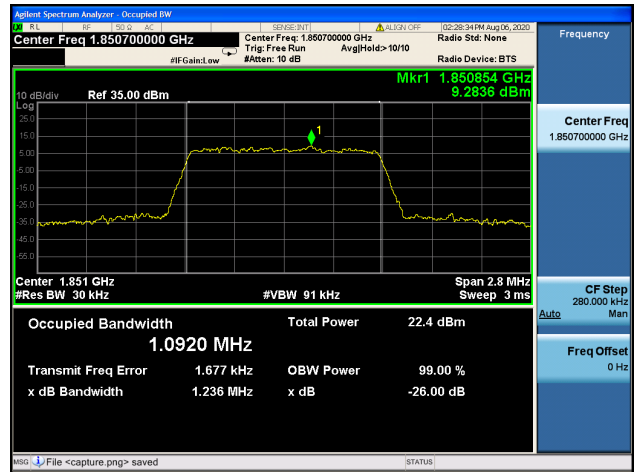
LTE Band41				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.50	4.80
	Low	16QAM	4.50	4.98
	Low	64QAM	4.50	4.99
	Mid	QPSK	4.50	5.08
	Mid	16QAM	4.50	5.00
	Mid	64QAM	4.50	5.00
	High	QPSK	4.45	4.96
	High	16QAM	4.51	5.11
	High	64QAM	4.50	5.11
10	Low	QPSK	8.91	9.51
	Low	16QAM	8.92	9.57
	Low	64QAM	8.91	9.60
	Mid	QPSK	8.94	9.56
	Mid	16QAM	8.92	9.57
	Mid	64QAM	8.93	9.58
	High	QPSK	8.93	9.54
	High	16QAM	8.93	9.60
	High	64QAM	8.93	9.55
15	Low	QPSK	13.35	14.05
	Low	16QAM	13.36	14.09
	Low	64QAM	13.34	14.07
	Mid	QPSK	13.34	14.20
	Mid	16QAM	13.36	14.14
	Mid	64QAM	13.36	14.13
	High	QPSK	13.35	14.05
	High	16QAM	13.60	14.11
	High	64QAM	13.36	14.11
20	Low	QPSK	17.83	20.63
	Low	16QAM	17.87	18.83
	Low	64QAM	17.83	18.73
	Mid	QPSK	17.83	21.16
	Mid	16QAM	17.84	18.60
	Mid	64QAM	17.83	18.68
	High	QPSK	17.81	18.63
	High	16QAM	17.82	18.81
	High	64QAM	17.81	18.76



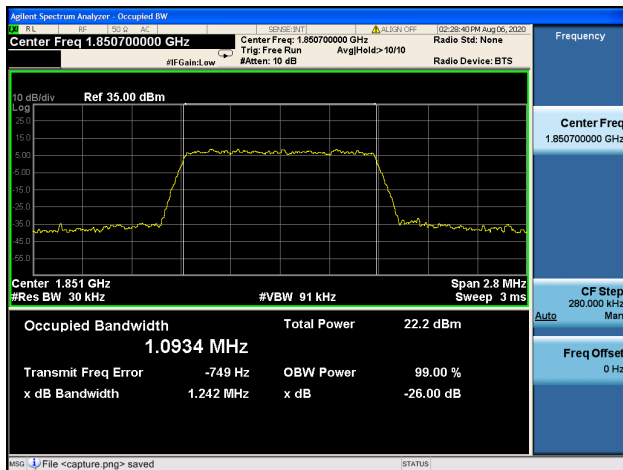
Band2 / 1.4MHz / Low CH / QPSK



Band2 / 1.4MHz / Low CH / 16QAM



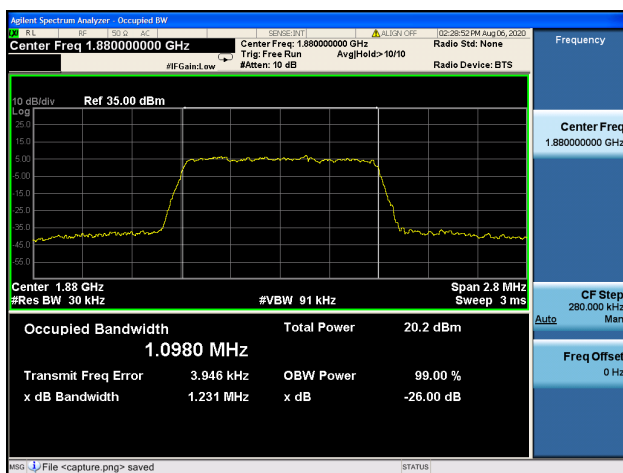
Band2 / 1.4MHz / Low CH / 64QAM



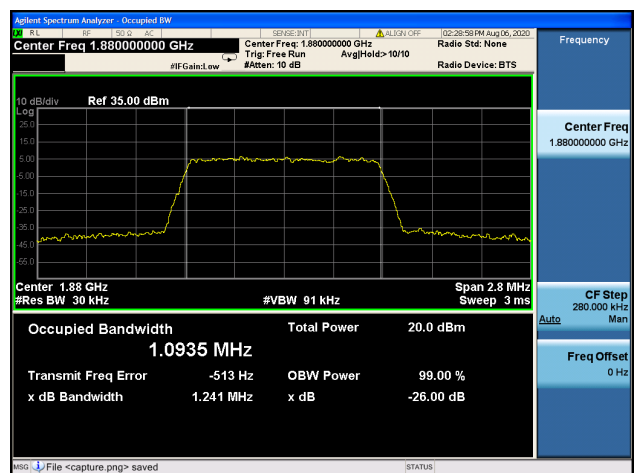
Band2 / 1.4MHz / Mid CH / QPSK



Band2 / 1.4MHz / Mid CH / 16QAM

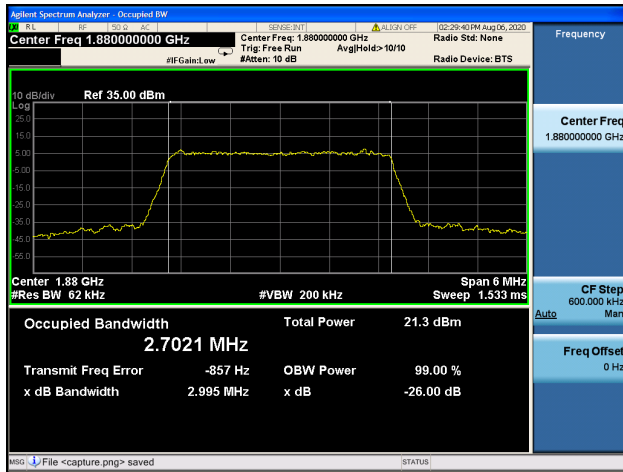


Band2 / 1.4MHz / Mid CH / 64QAM

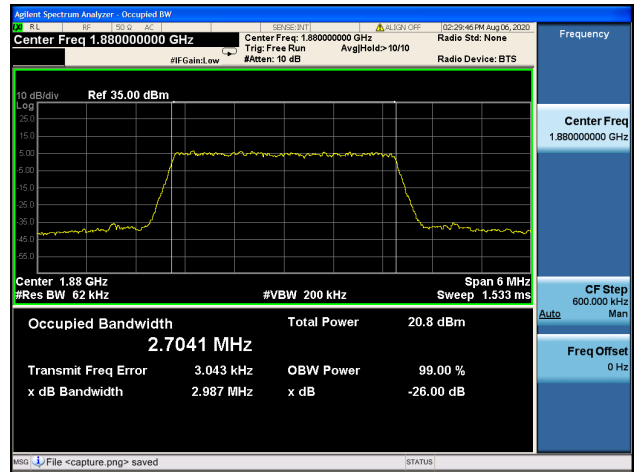




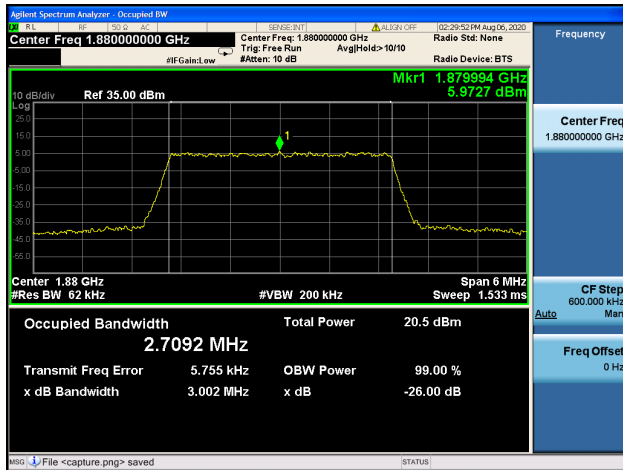
Band2 / 3MHz / Mid CH /
QPSK



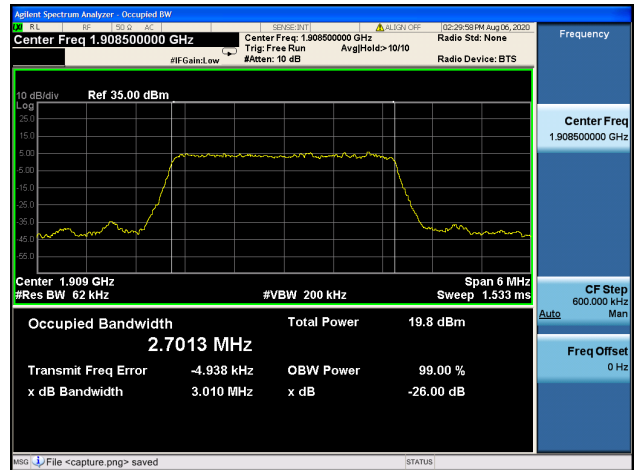
Band2 / 3MHz / Mid CH /
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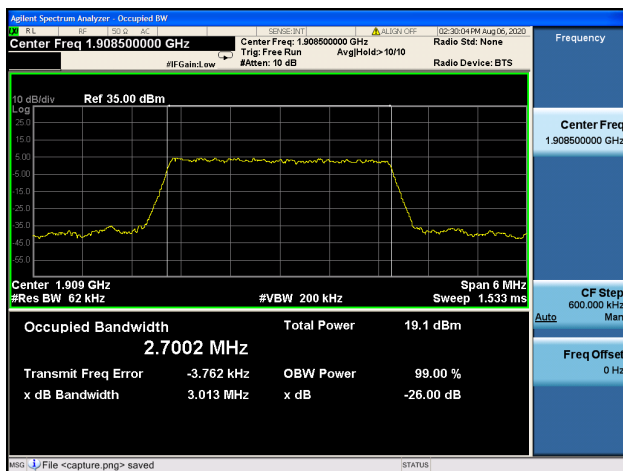
Band2 / 3MHz / Mid CH /
64QAM



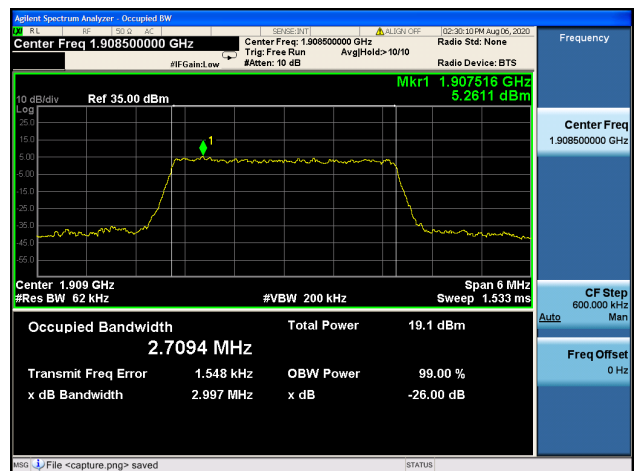
Band2 / 3MHz / High CH /
QPSK



Band2 / 3MHz / High CH /
16QAM

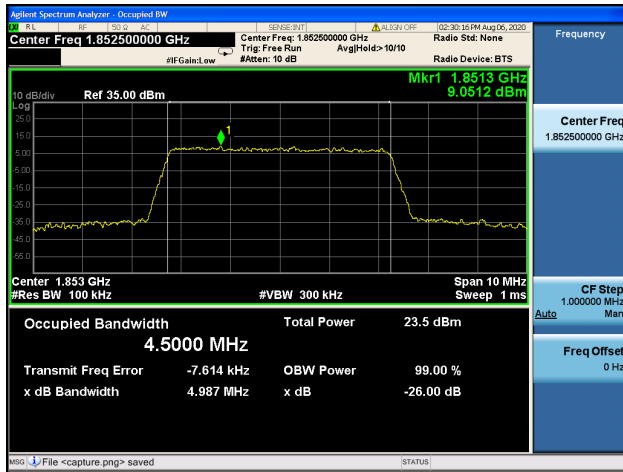


Band2 / 3MHz / High CH /
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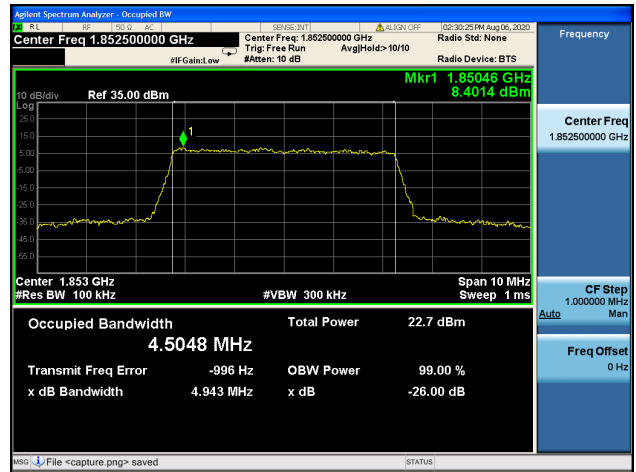




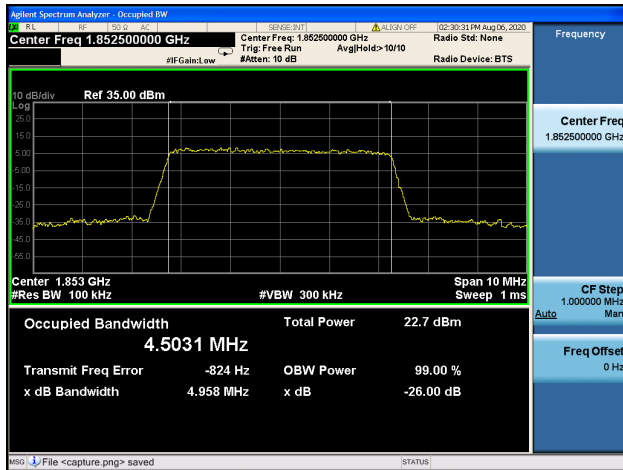
Band2 / 5MHz / Low CH /
QPSK



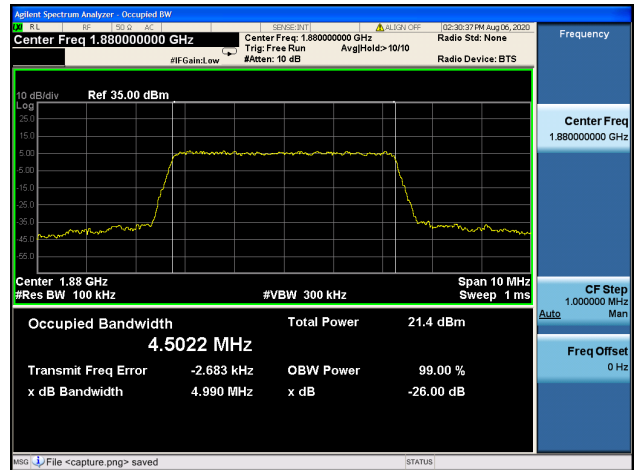
Band2 / 5MHz / Low CH /
16QAM



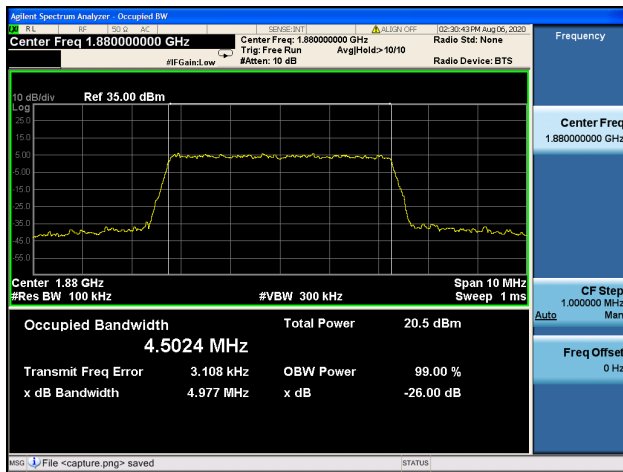
Band2 / 5MHz / Low CH /
64QAM



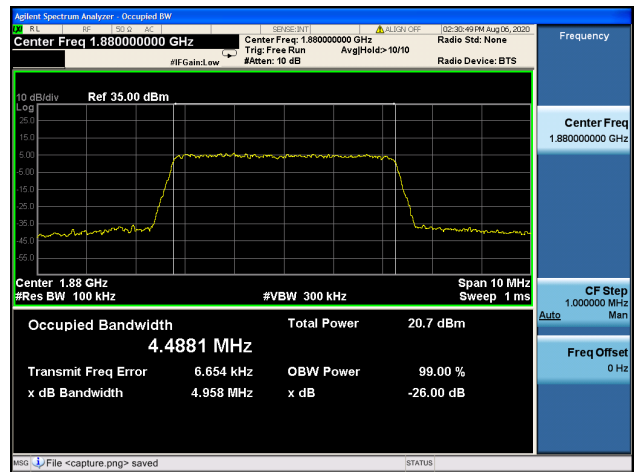
Band2 / 5MHz / Mid CH /
QPSK



Band2 / 5MHz / Mid CH /
16QAM

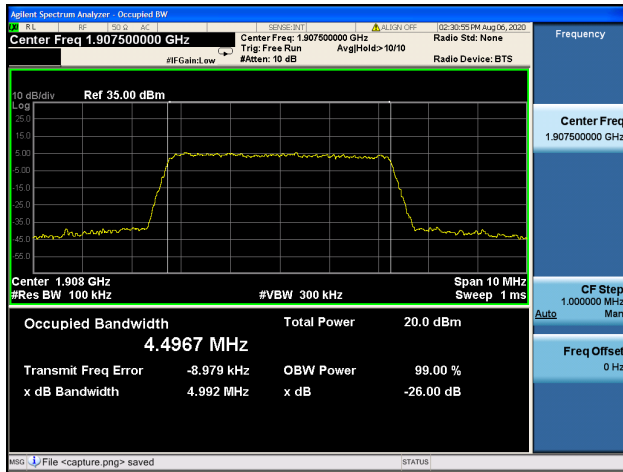


Band2 / 5MHz / Mid CH /
64QAM

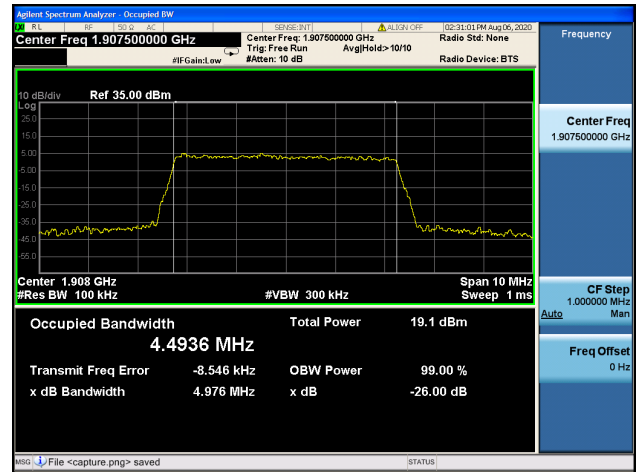




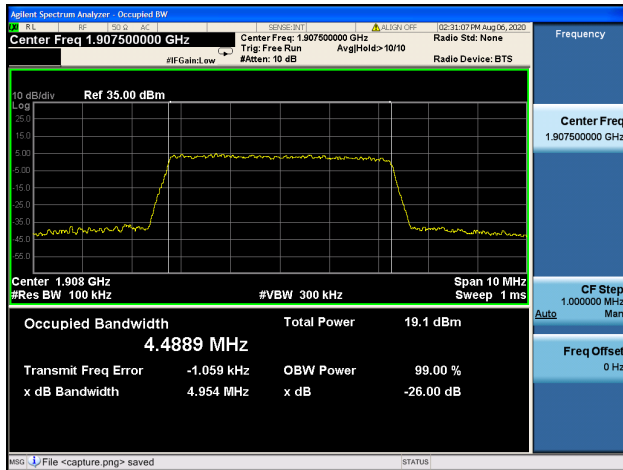
Band2 / 5MHz / High CH /
QPSK



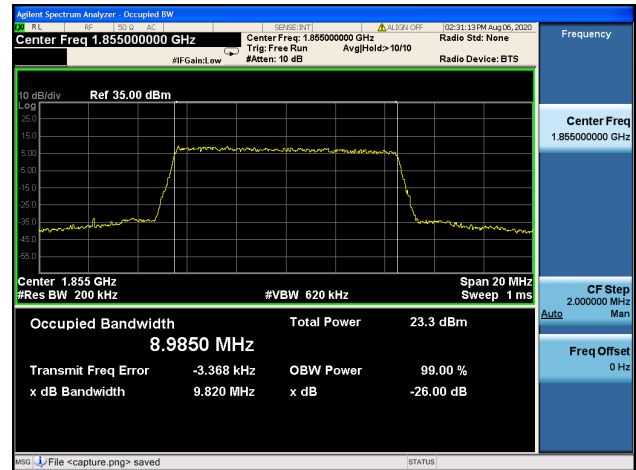
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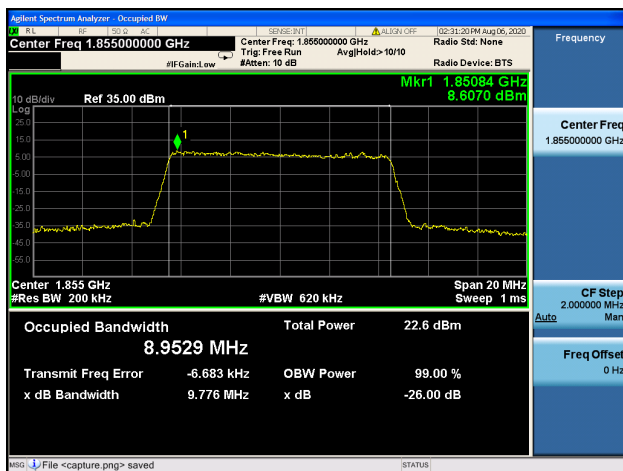
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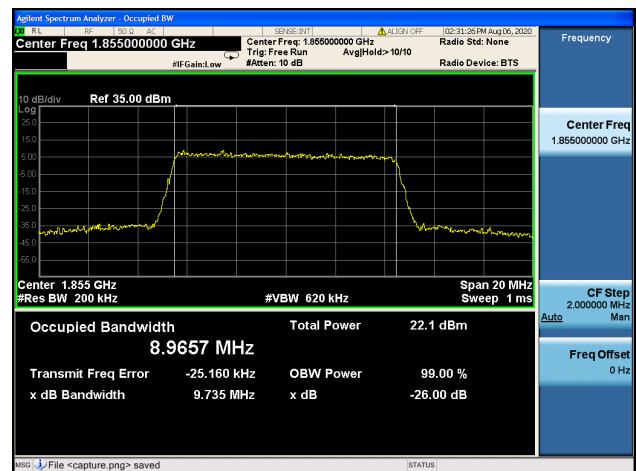
Band2 / 10MHz / Low CH /
QPSK



Band2 / 10MHz / Low CH /
16QAM

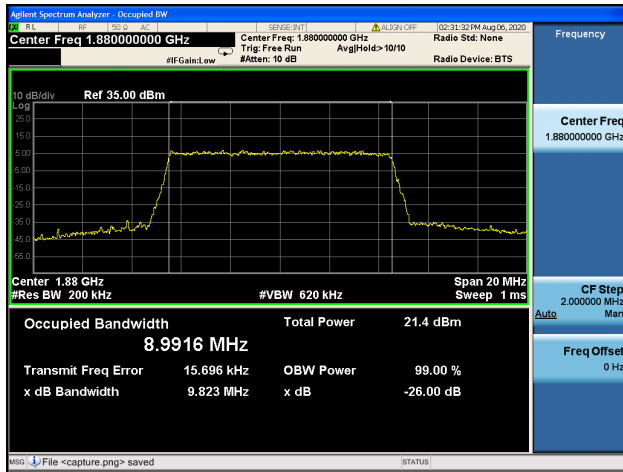


Band2 / 10MHz / Low CH /
64QAM

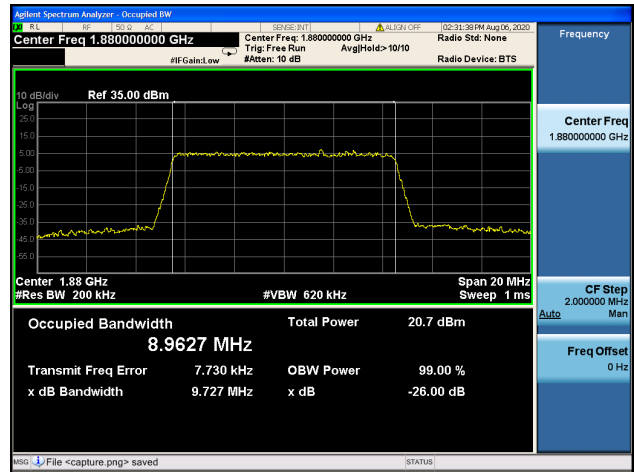




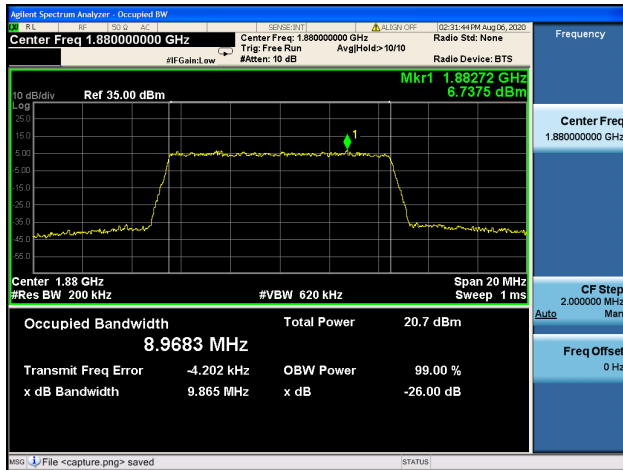
Band2 / 10MHz / Mid CH /
QPSK



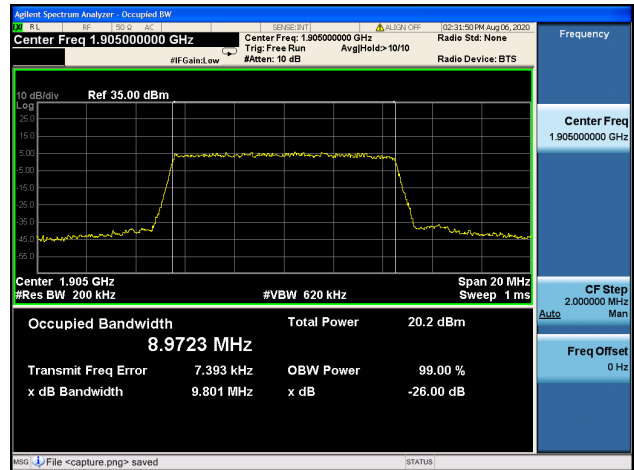
Band2 / 10MHz / Mid CH /
16QAM



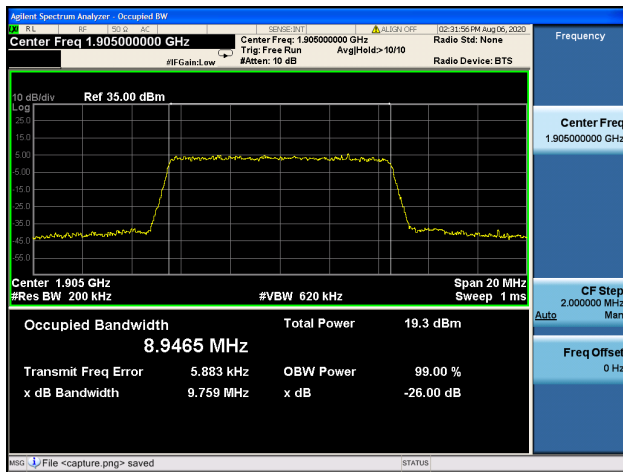
Band2 / 10MHz / Mid CH /
64QAM



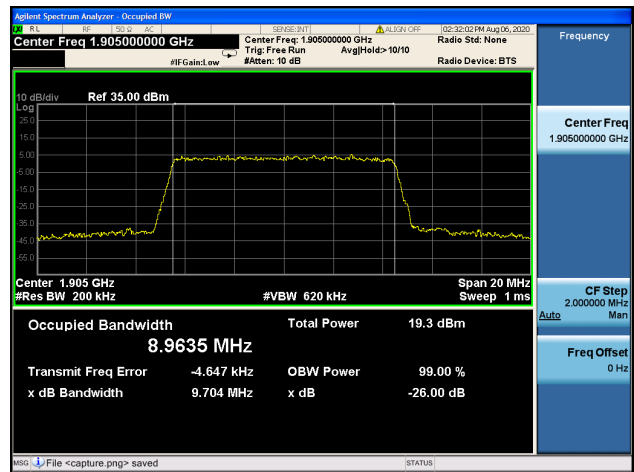
Band2 / 10MHz / High CH /
QPSK



Band2 / 10MHz / High CH /
16QAM

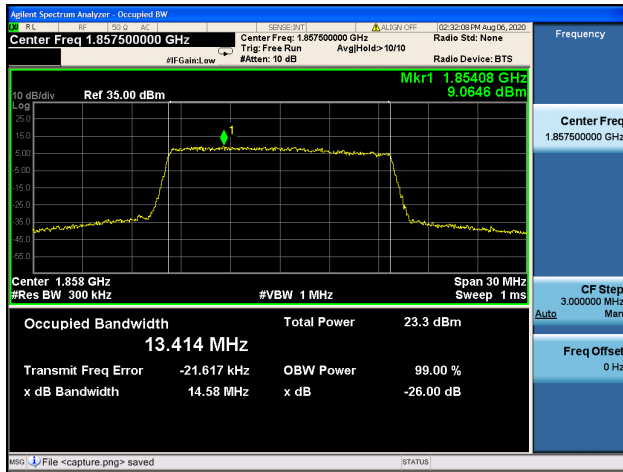


Band2 / 10MHz / High CH /
64QAM

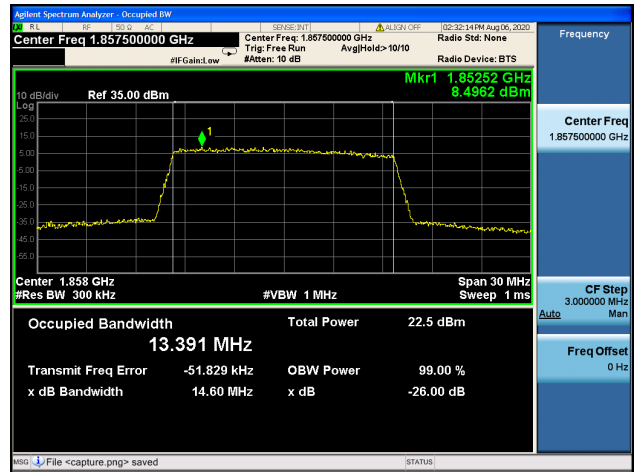




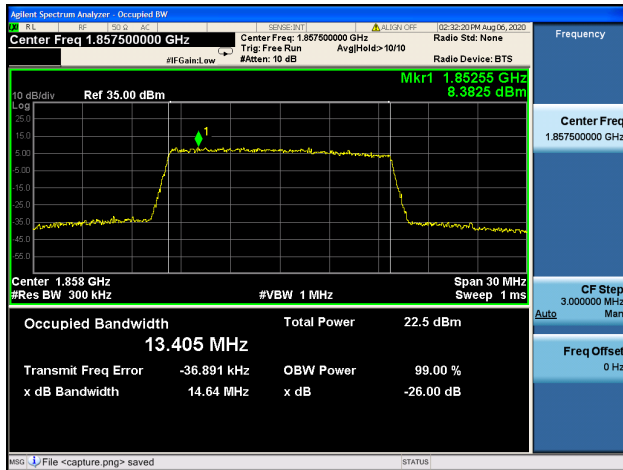
Band2 / 15MHz / Low CH / QPSK



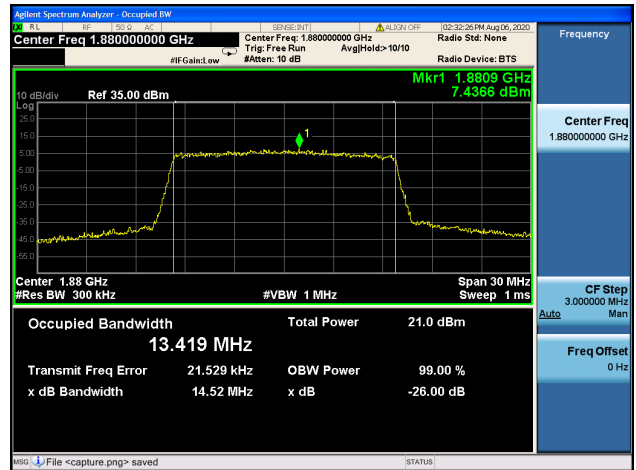
Band2 / 15MHz / Low CH / 16QAM



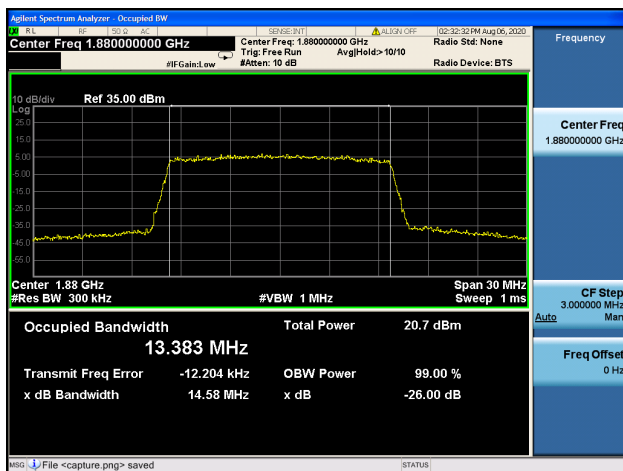
Band2 / 15MHz / Low CH / 64QAM



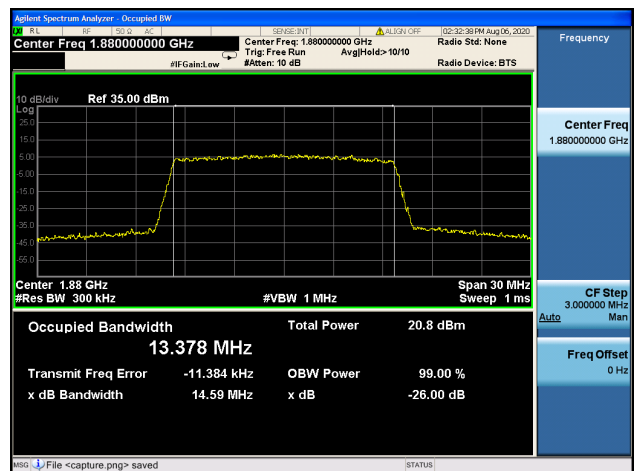
Band2 / 15MHz / Mid CH / QPSK



Band2 / 15MHz / Mid CH / 16QAM

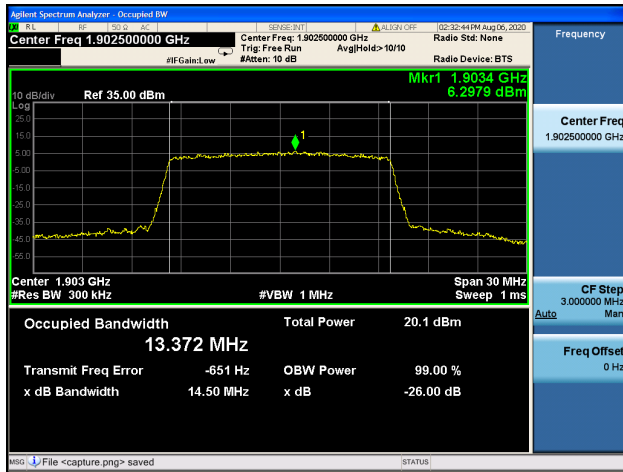


Band2 / 15MHz / Mid CH / 64QAM

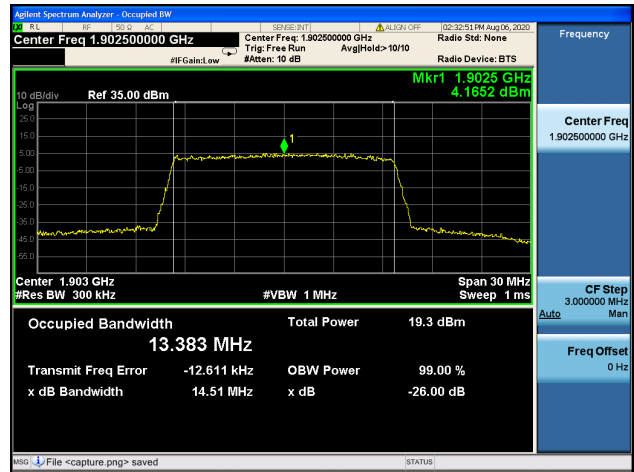




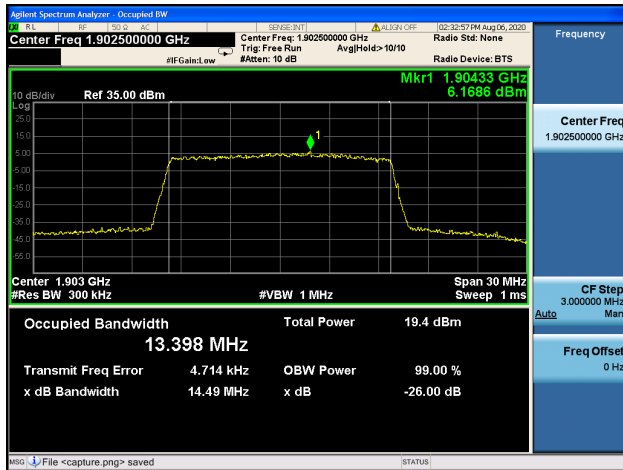
Band2 / 15MHz / High CH / QPSK



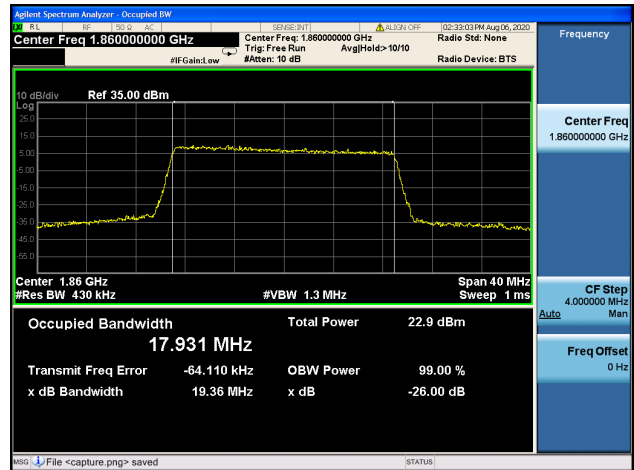
Band2 / 15MHz / High CH / 16QAM



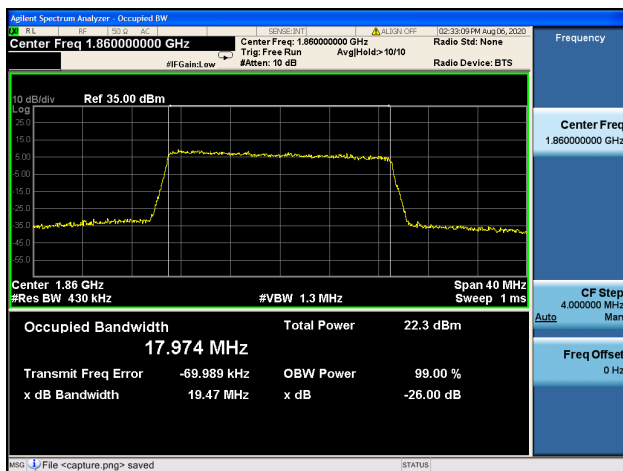
Band2 / 15MHz / High CH / 64QAM



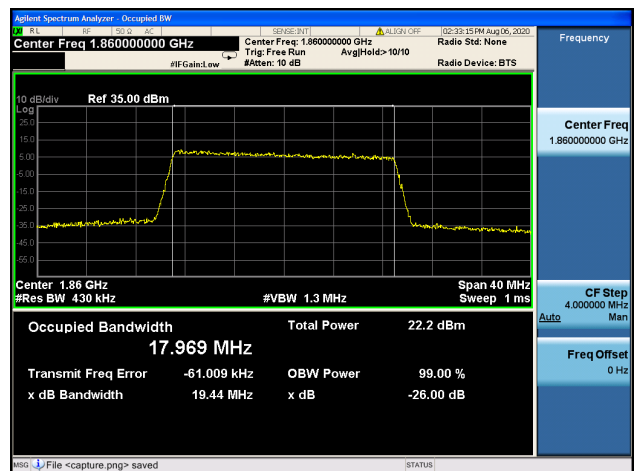
Band2 / 20MHz / Low CH / QPSK



Band2 / 20MHz / Low CH / 16QAM

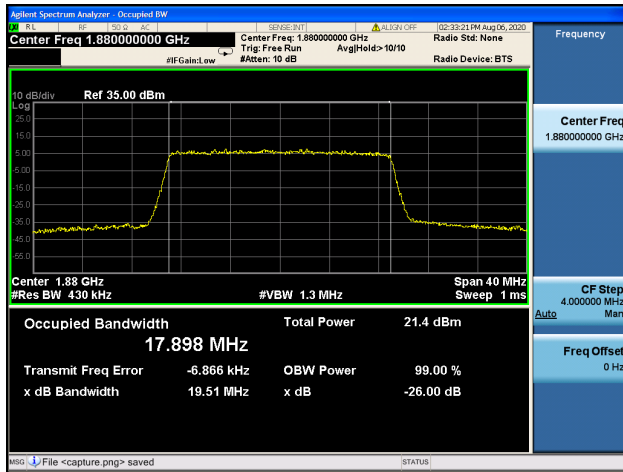


Band2 / 20MHz / Low CH / 64QAM

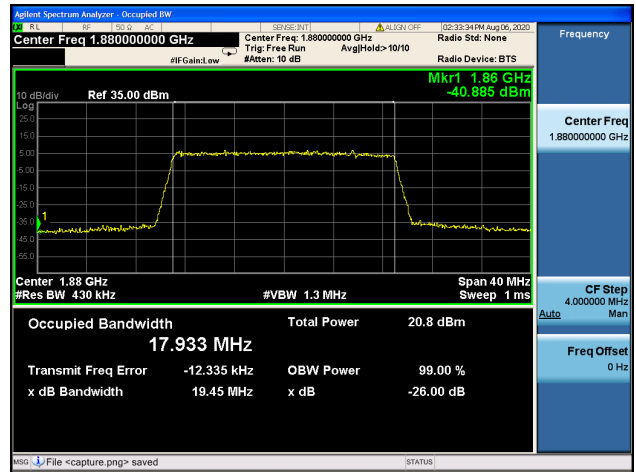




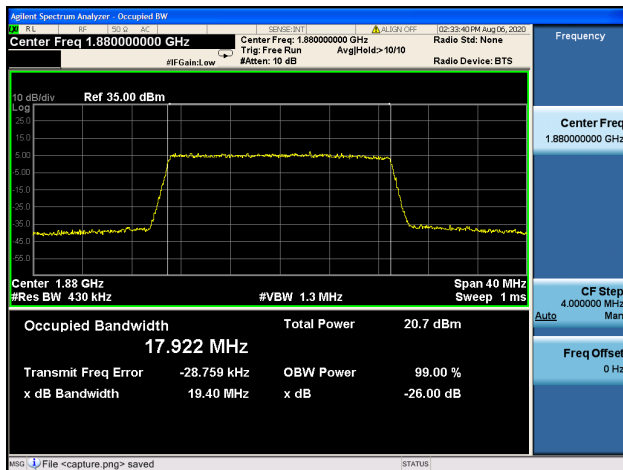
Band2 / 20MHz / Mid CH /
QPSK



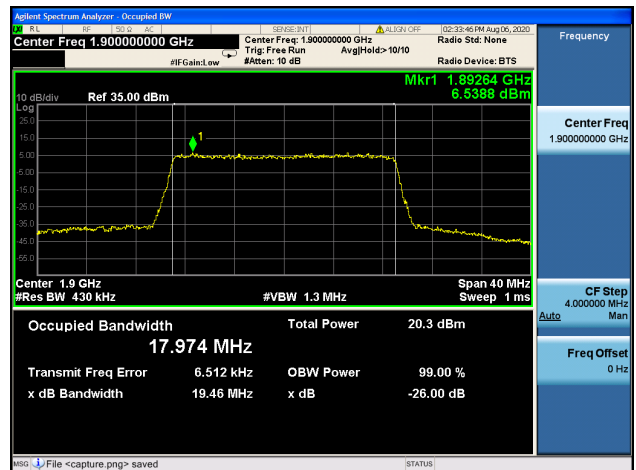
Band2 / 20MHz / Mid CH /
16QAM



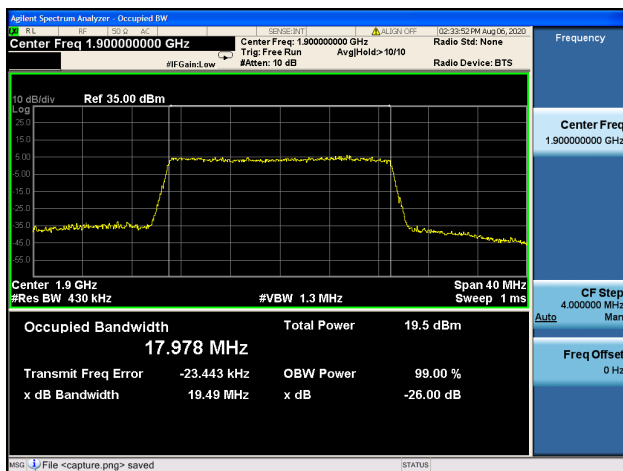
Band2 / 20MHz / Mid CH /
64QAM



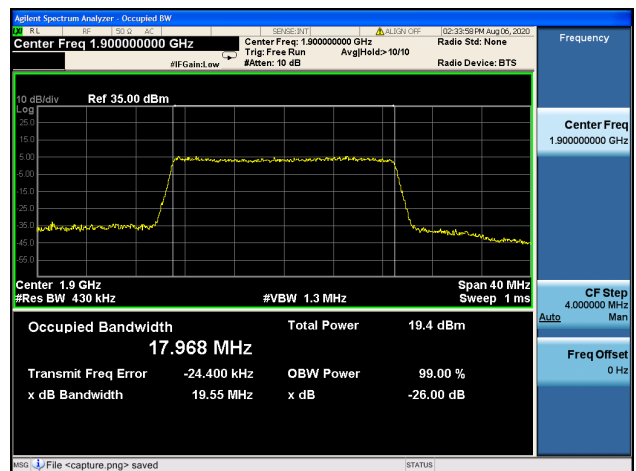
Band2 / 20MHz / High CH /
QPSK



Band2 / 20MHz / High CH /
16QAM

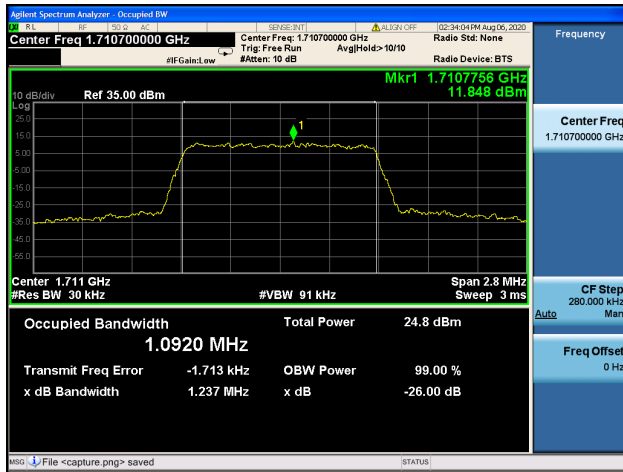


Band2 / 20MHz / High CH /
64QAM

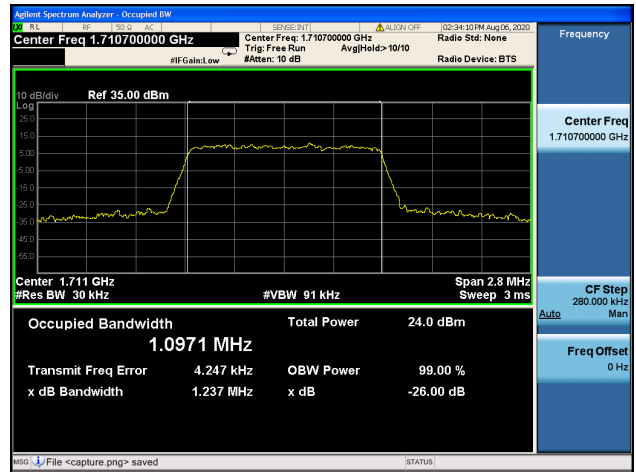




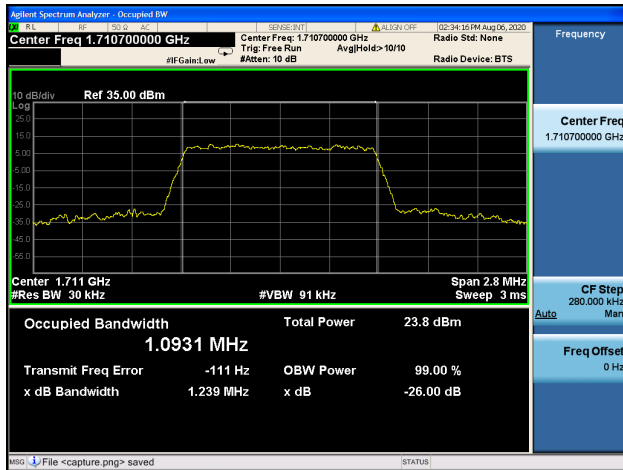
Band4 / 1.4MHz / Low CH / QPSK



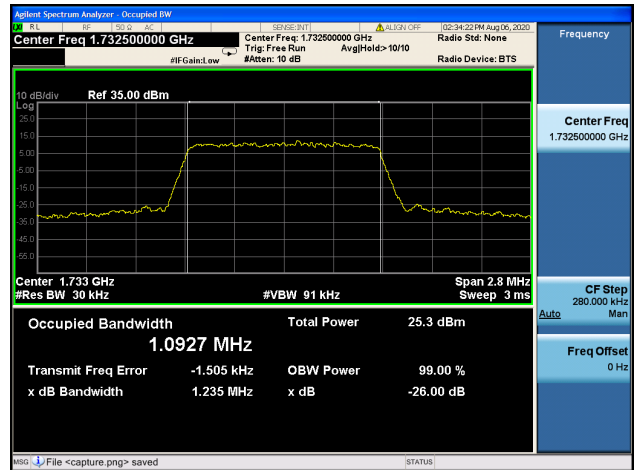
Band4 / 1.4MHz / Low CH / 16QAM



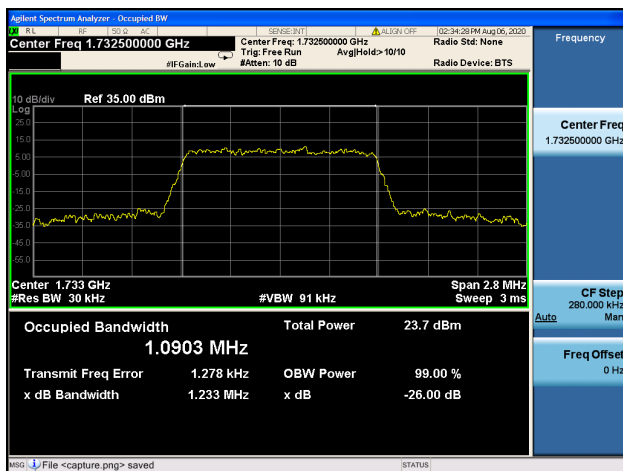
Band4 / 1.4MHz / Low CH / 64QAM



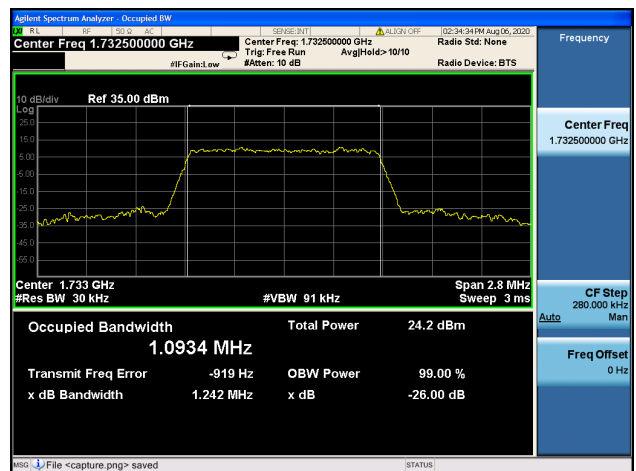
Band4 / 1.4MHz / Mid CH / QPSK



Band4 / 1.4MHz / Mid CH / 16QAM

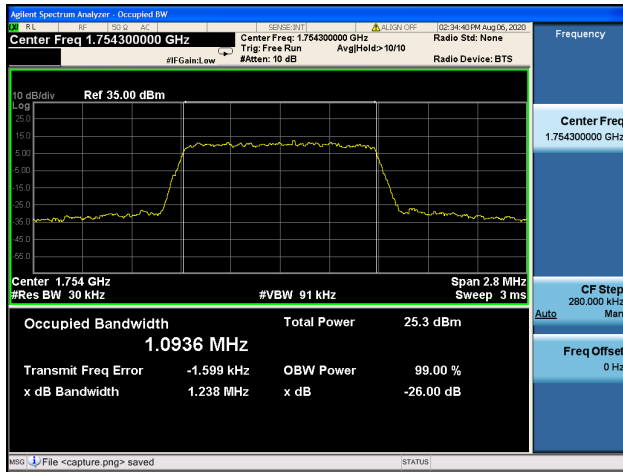


Band4 / 1.4MHz / Mid CH / 64QAM

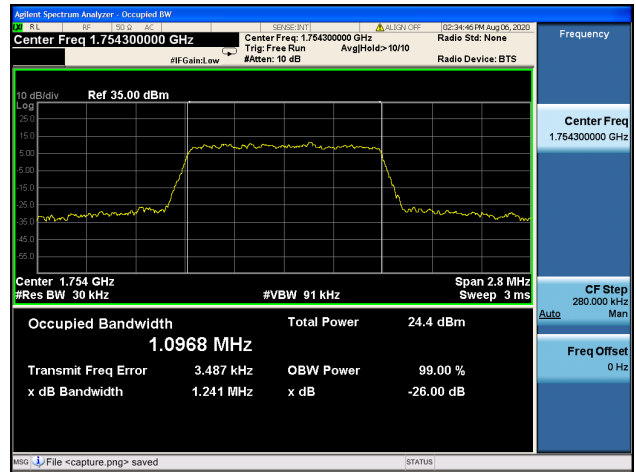




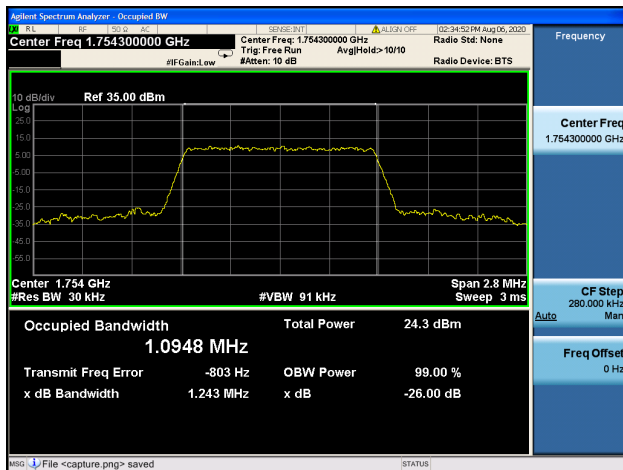
Band4 / 1.4MHz / High CH / QPSK



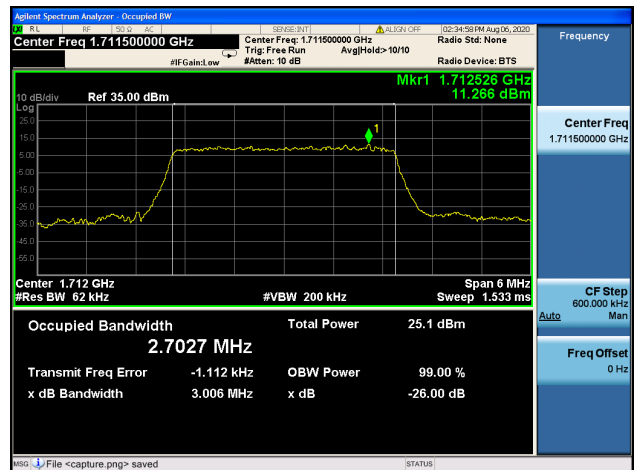
Band4 / 1.4MHz / High CH / 16QAM



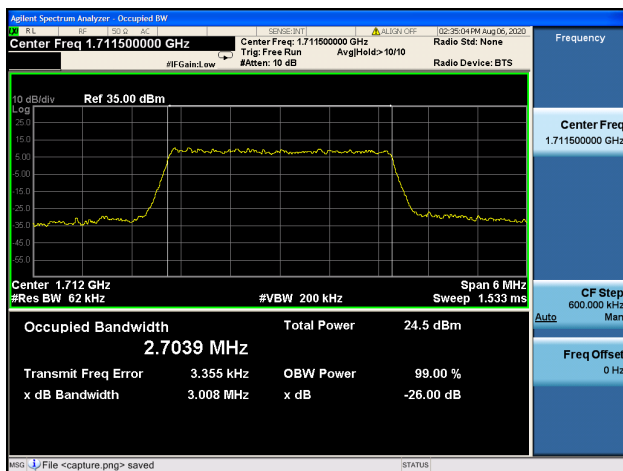
Band4 / 1.4MHz / High CH / 64QAM



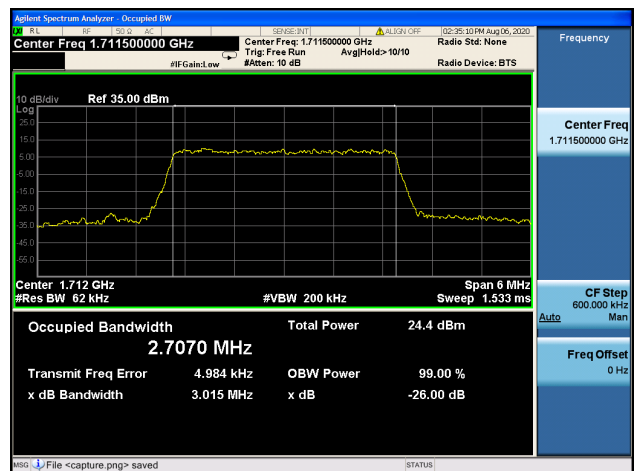
Band4 / 3MHz / Low CH / QPSK



Band4 / 3MHz / Low CH / 16QAM

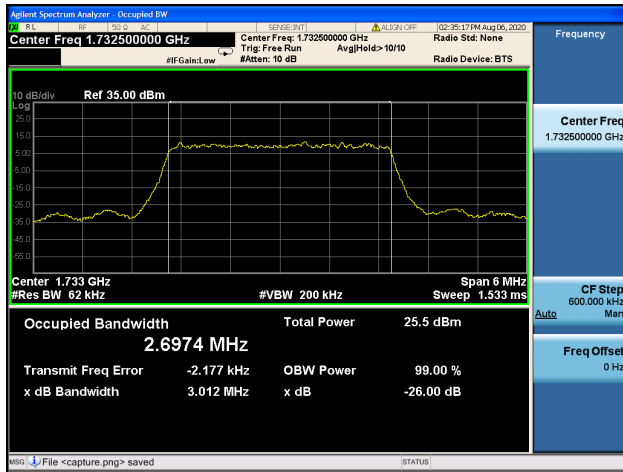


Band4 / 3MHz / Low CH / 64QAM

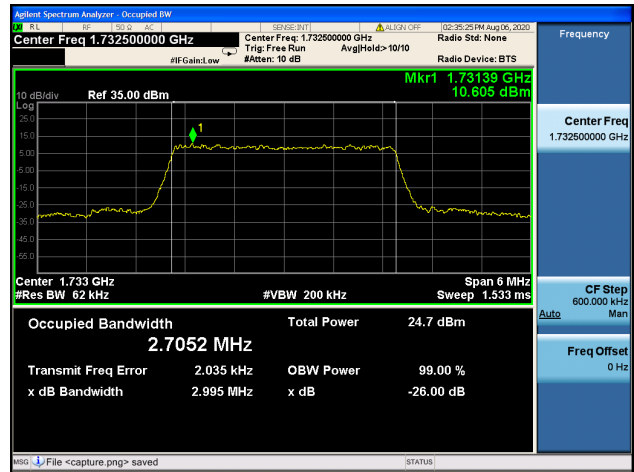




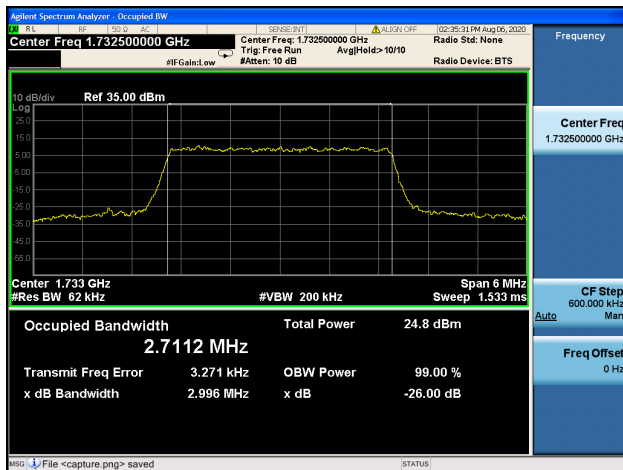
Band4 / 3MHz / Mid CH /
QPSK



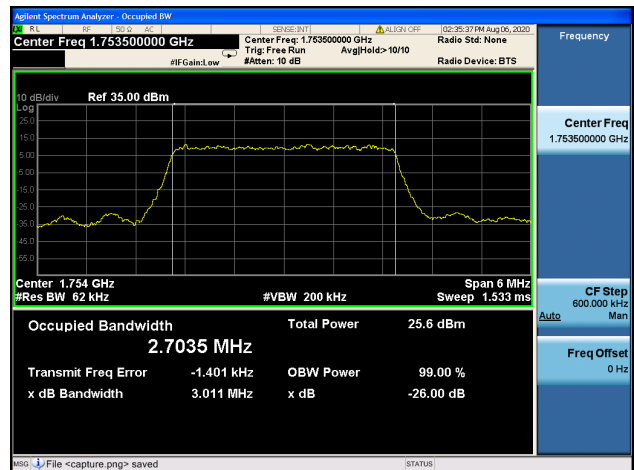
Band4 / 3MHz / Mid CH /
16QAM



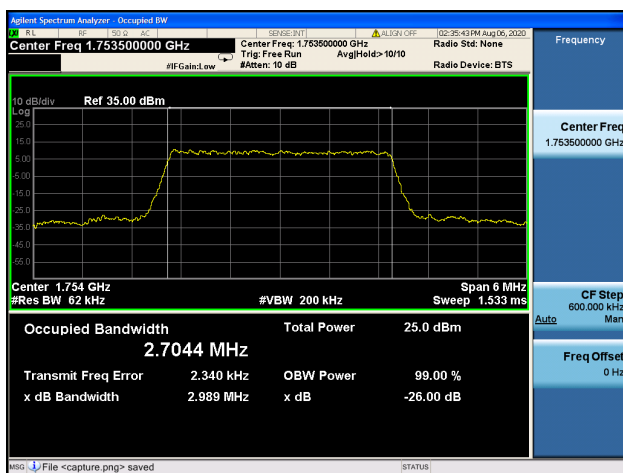
Band4 / 3MHz / Mid CH /
64QAM



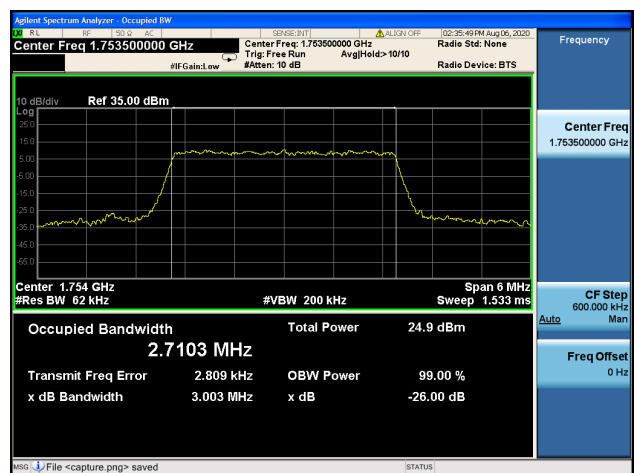
Band4 / 3MHz / High CH /
QPSK



Band4 / 3MHz / High CH /
16QAM

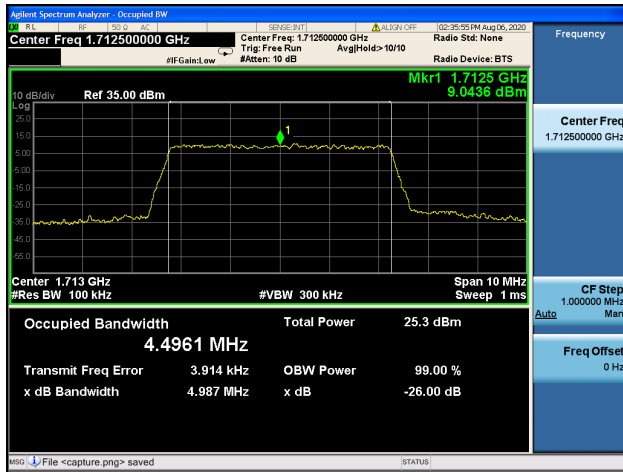


Band4 / 3MHz / High CH /
64QAM

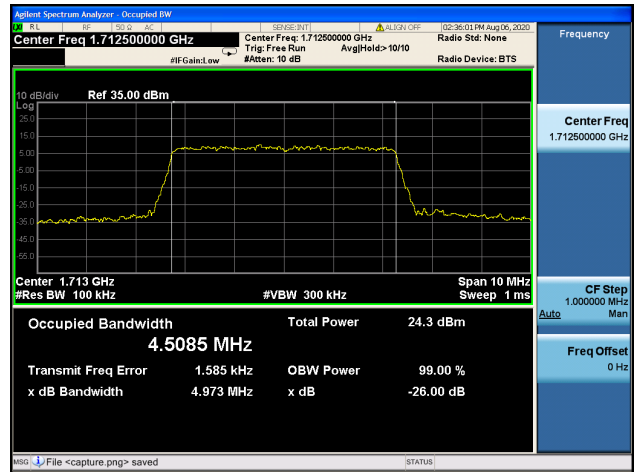




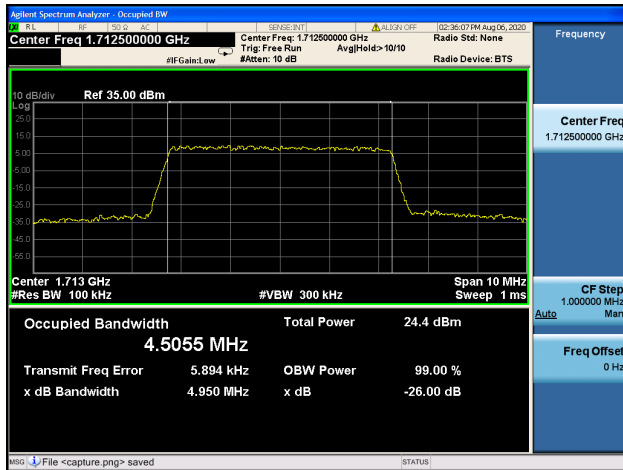
Band4 / 5MHz / Low CH / QPSK



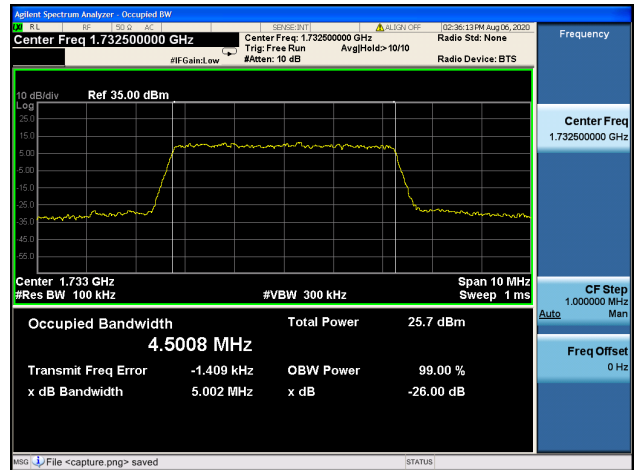
Band4 / 5MHz / Low CH / 16QAM



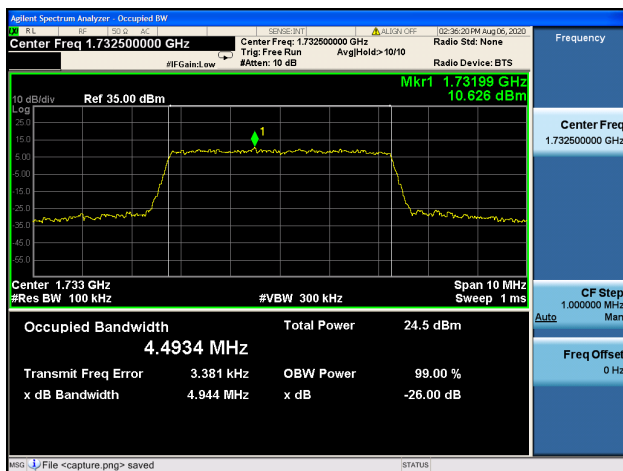
Band4 / 5MHz / Low CH / 64QAM



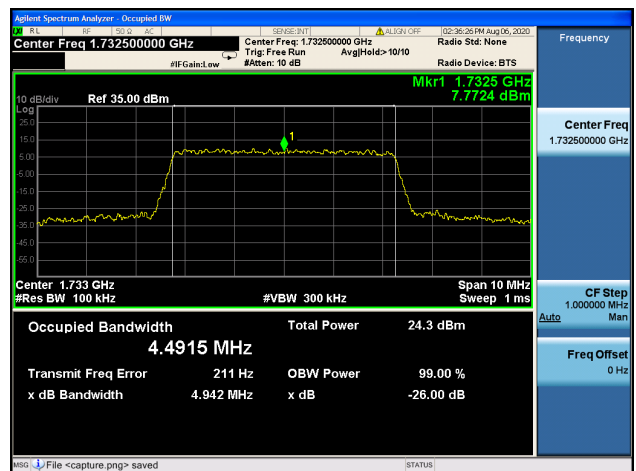
Band4 / 5MHz / Mid CH / QPSK



Band4 / 5MHz / Mid CH / 16QAM

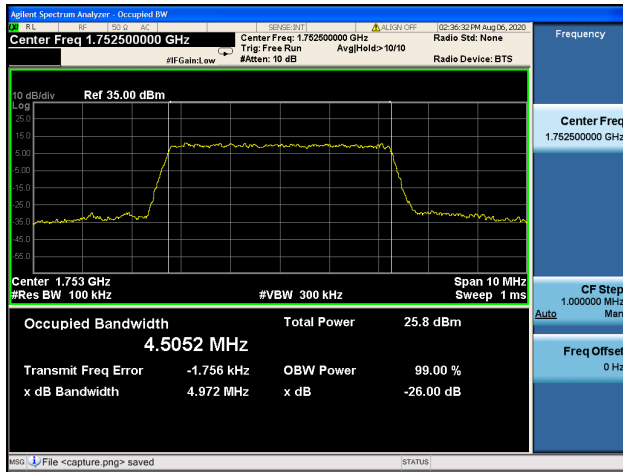


Band4 / 5MHz / Mid CH / 64QAM

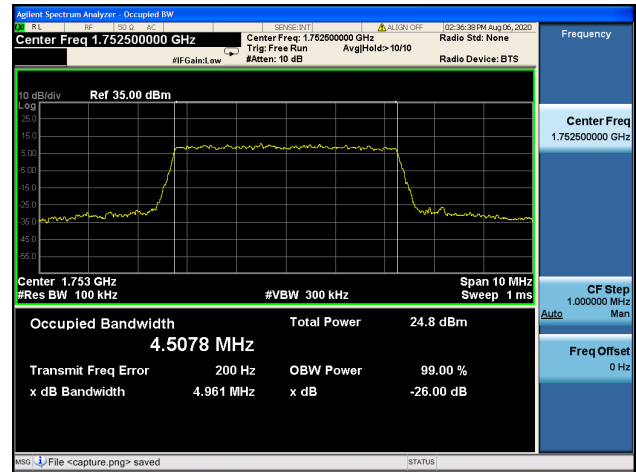




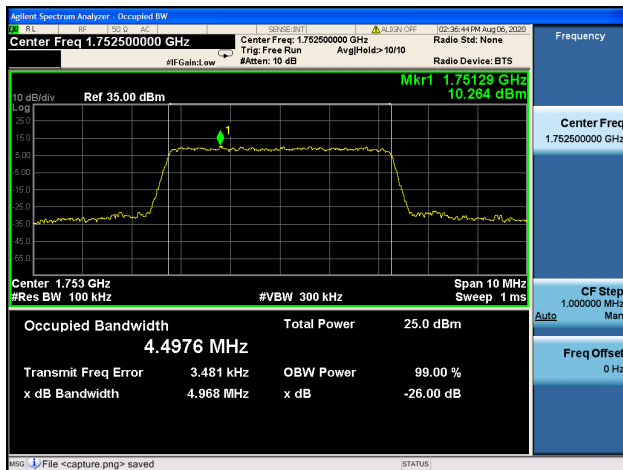
Band4 / 5MHz / High CH /
QPSK



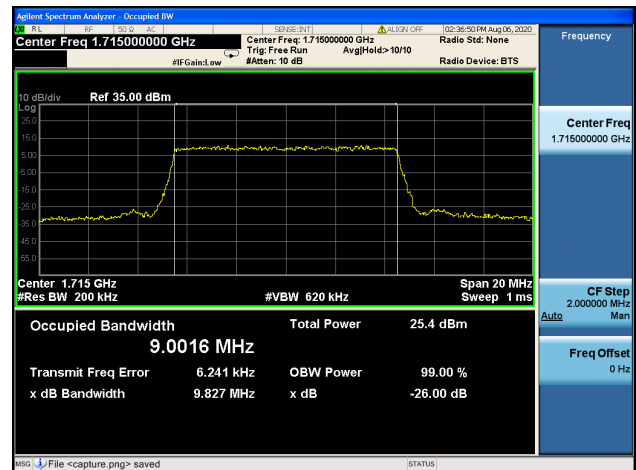
Band4 / 5MHz / High CH /
16QAM



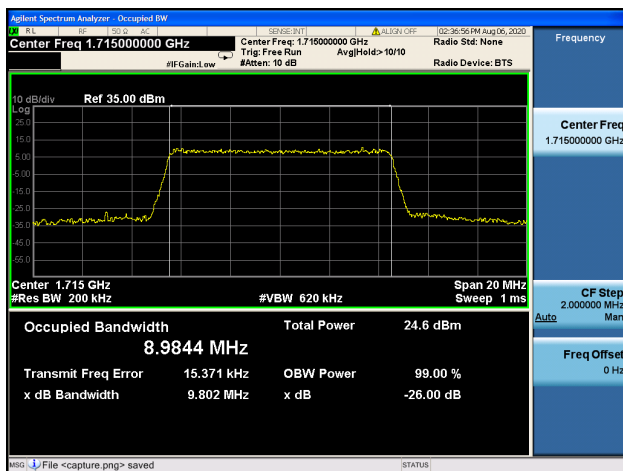
Band4 / 5MHz / High CH /
64QAM



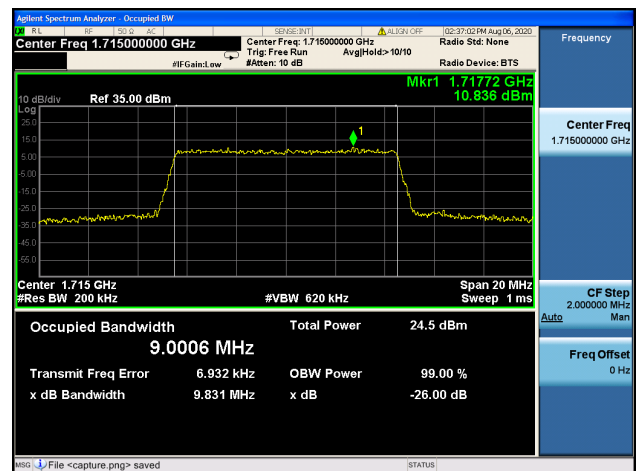
Band4 / 10MHz / Low CH /
QPSK



Band4 / 10MHz / Low CH /
16QAM

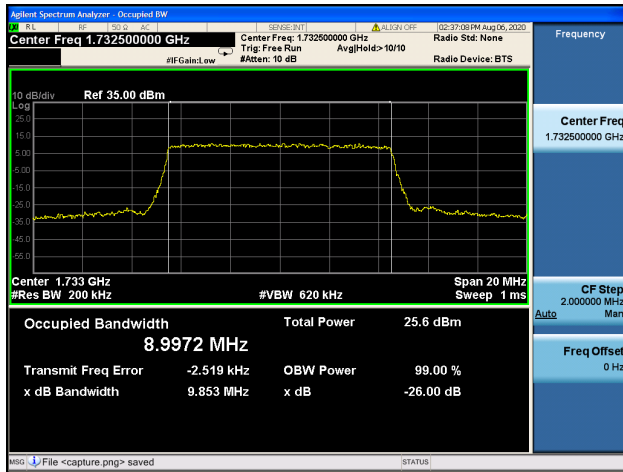


Band4 / 10MHz / Low CH /
64QAM

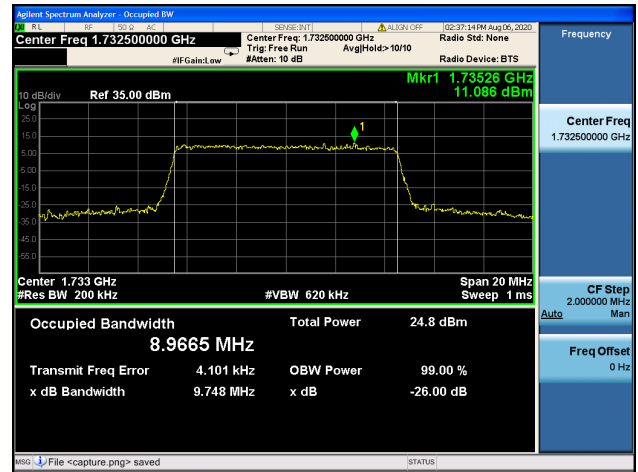




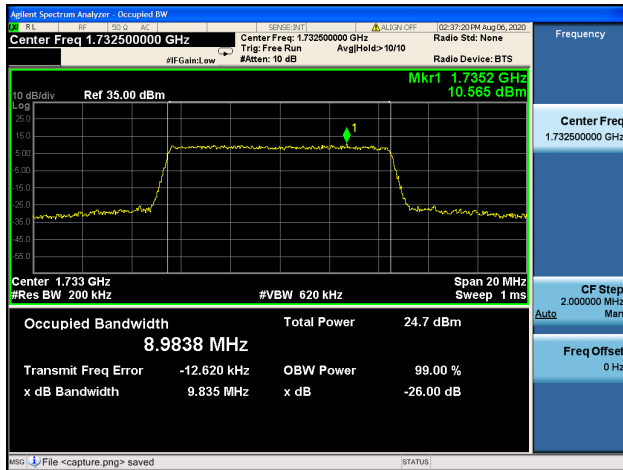
Band4 / 10MHz / Mid CH /
QPSK



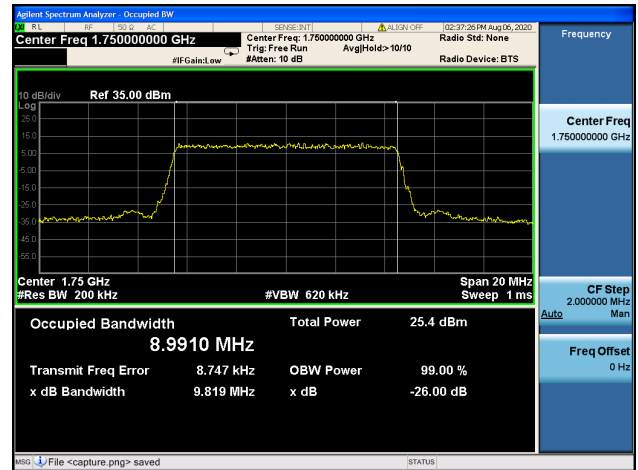
Band4 / 10MHz / Mid CH /
16QAM



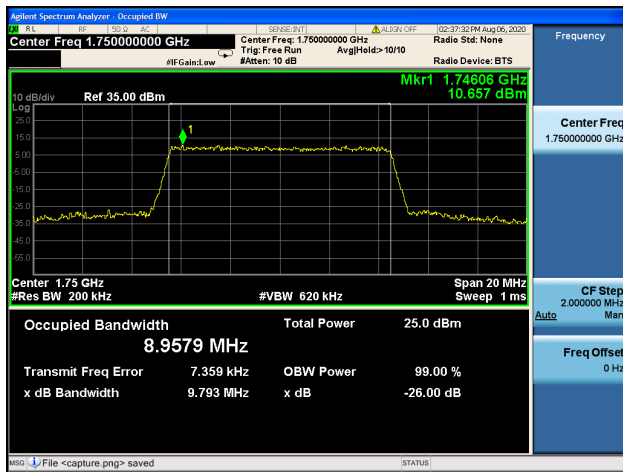
Band4 / 10MHz / Mid CH /
64QAM



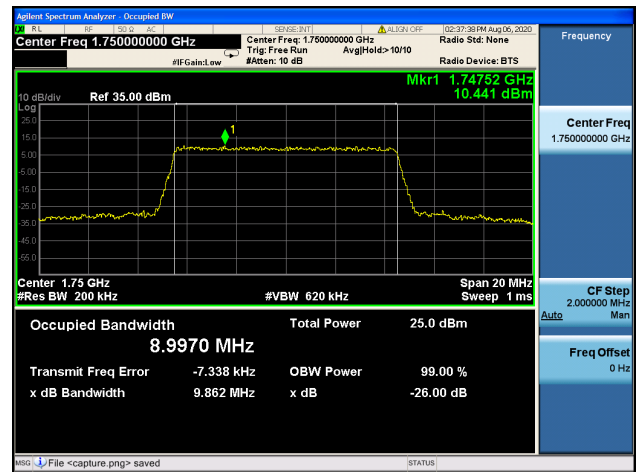
Band4 / 10MHz / High CH /
QPSK



Band4 / 10MHz / High CH /
16QAM

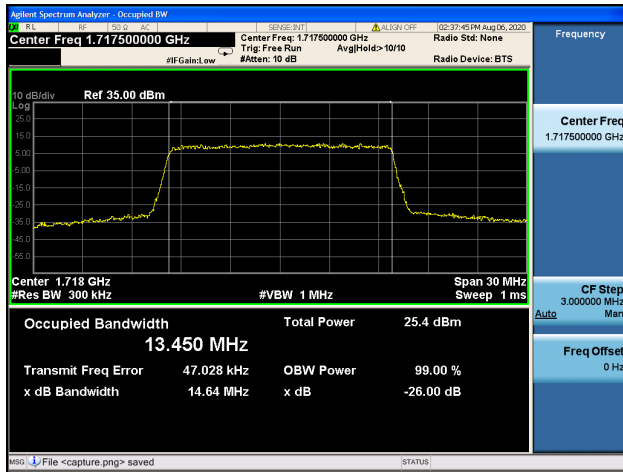


Band4 / 10MHz / High CH /
64QAM

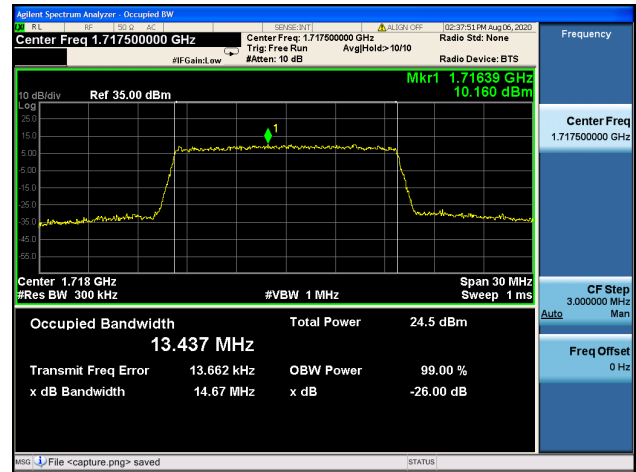




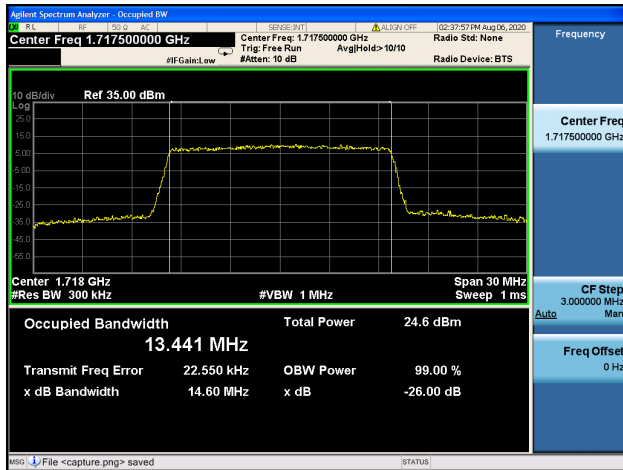
Band4 / 15MHz / Low CH / QPSK



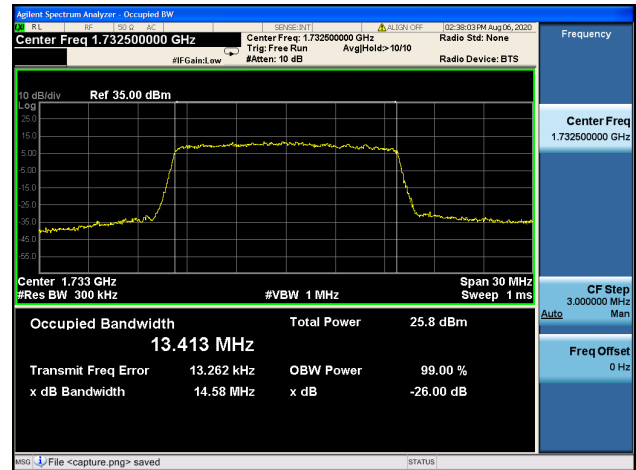
Band4 / 15MHz / Low CH / 16QAM



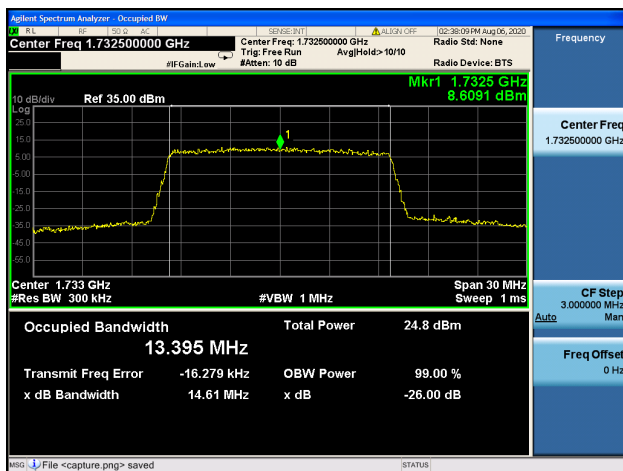
Band4 / 15MHz / Low CH / 64QAM



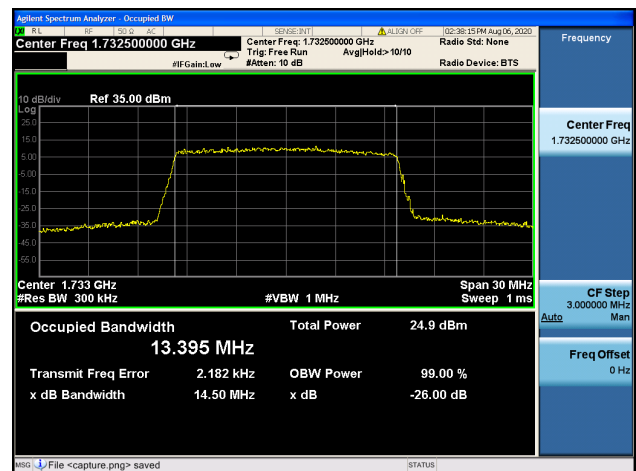
Band4 / 15MHz / Mid CH / QPSK



Band4 / 15MHz / Mid CH / 16QAM

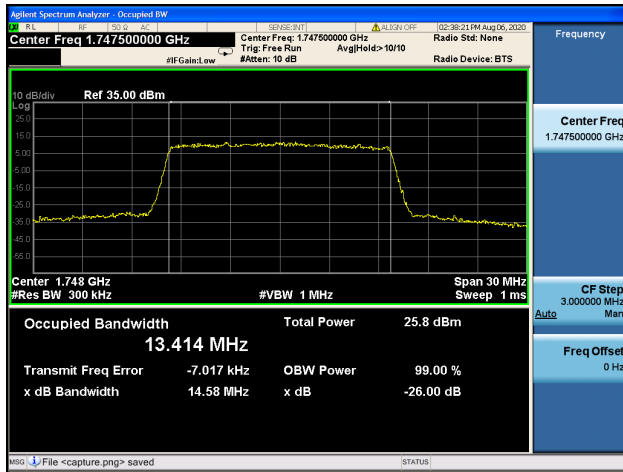


Band4 / 15MHz / Mid CH / 64QAM

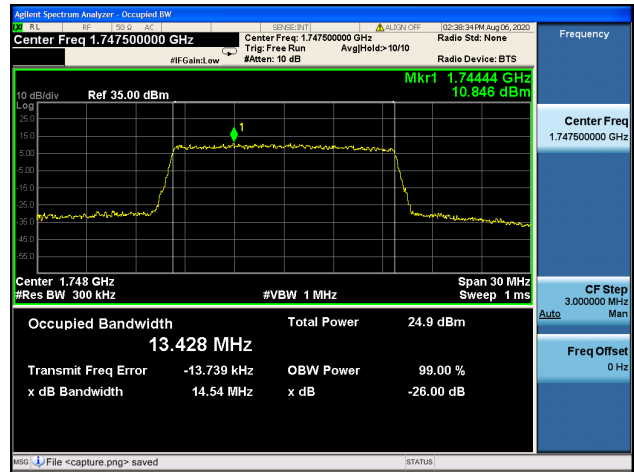




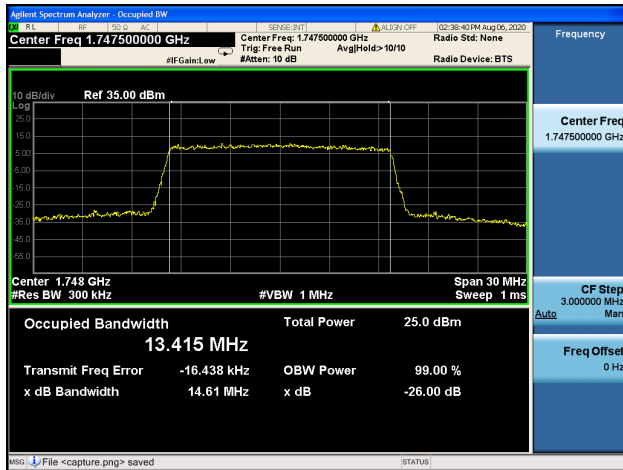
Band4 / 15MHz / High CH / QPSK



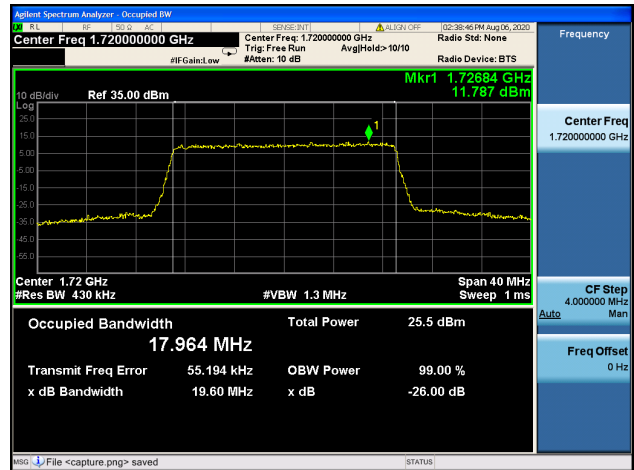
Band4 / 15MHz / High CH / 16QAM



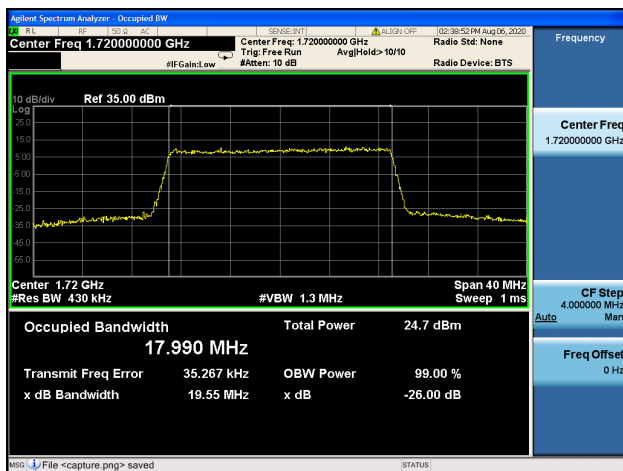
Band4 / 15MHz / High CH / 64QAM



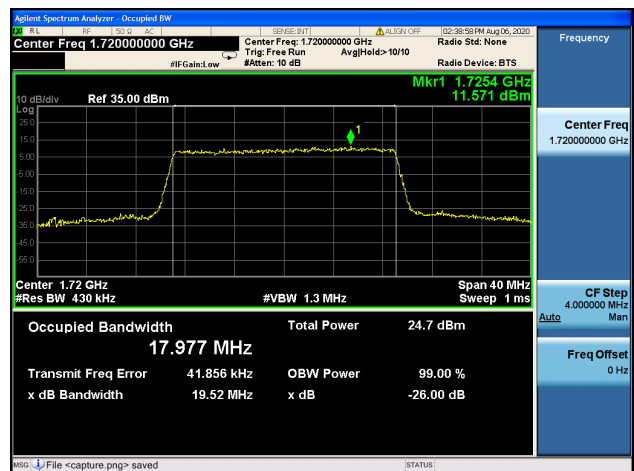
Band4 / 20MHz / Low CH / QPSK



Band4 / 20MHz / Low CH / 16QAM

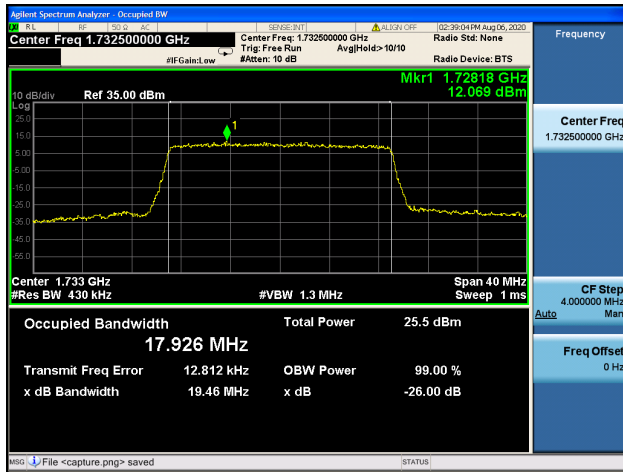


Band4 / 20MHz / Low CH / 64QAM

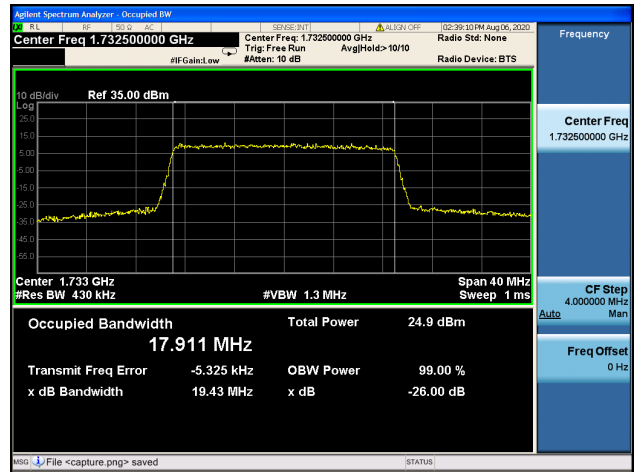




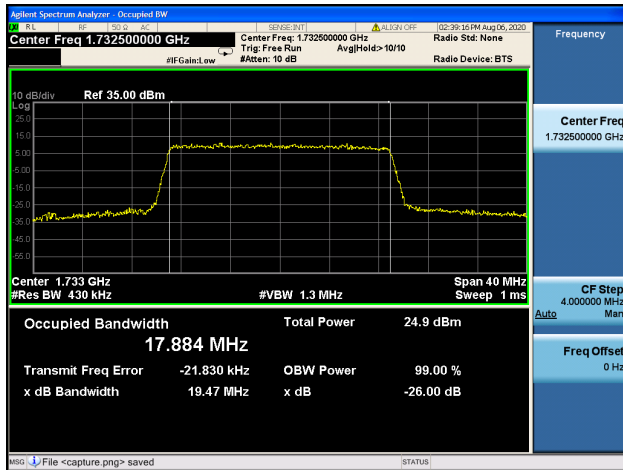
Band4 / 20MHz / Mid CH / QPSK



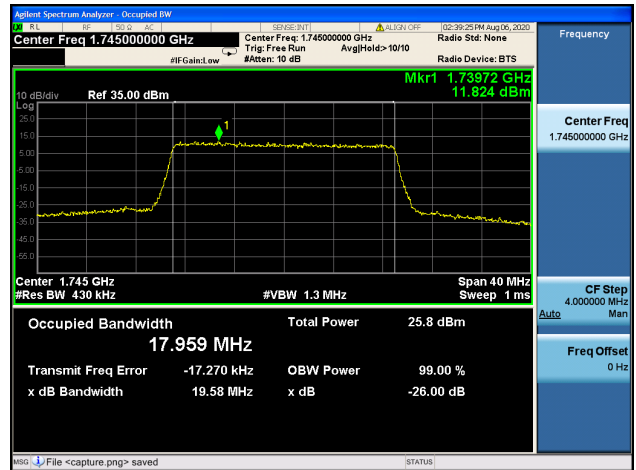
Band4 / 20MHz / Mid CH / 16QAM



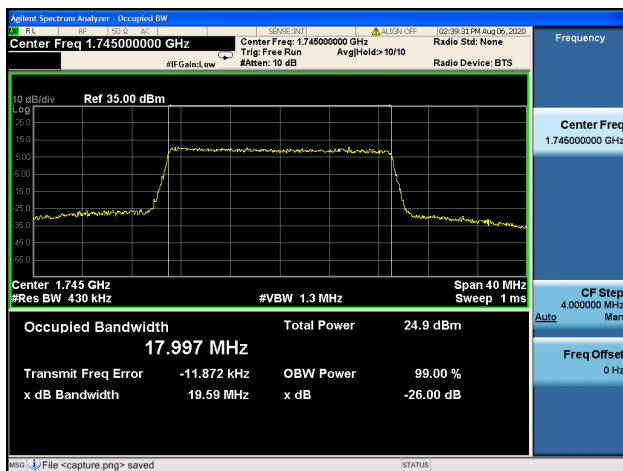
Band4 / 20MHz / Mid CH / 64QAM



Band4 / 20MHz / High CH / QPSK



Band4 / 20MHz / High CH / 16QAM



Band4 / 20MHz / High CH / 64QAM

