



TEST REPORT

APPLICANT : Shenzhen Chainway Information Technology Co.,Ltd.

PRODUCT NAME : Fixed Android UHF Reader

MODEL NAME : URA8

BRAND NAME : CHAINWAY

FCC ID : 2AC6AURA8

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

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Change History		
Version	Date	Reason for change
1.0	2020-01-13	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Shenzhen Chainway Information Technology Co.,Ltd.
Applicant Address:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen
Manufacturer:	Shenzhen Chainway Information Technology Co.,Ltd.
ManufacturerAddress:	9/F, Building 2, Daqian Industrial Park, Longchang Rd., District 67, Bao'an, Shenzhen

1.2. Equipment Under Test (EUT) Description

Product Name:	Fixed Android UHF Reader	
Hardware Version:	V12	
Software Version:	A8_20191010	
Modulation Type:	QPSK, 16QAM,64QAM	
Operation Band:	Band 2 / 4 / 5 / 7 / 17	
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 – 2670MHz
		Rx:2620MHz – 2690MHz
	LTE Band 17	Tx: 704MHz - 716MHz
		Rx: 734MHz– 746MHz
Channel Bandwidth	LTE Band 2	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 4	1.4MHz, 3 MHz, 5 MHz, 10MHz, 15 MHz, 20 MHz
	LTE Band 5	1.4MHz, 3 MHz, 5 MHz, 10MHz
	LTE Band 7	5MHz,10MHz,15MHz,20MHz
	LTE Band 17	5 MHz, 10MHz



Antenna Type:	Fixed External	
Antenna Gain:	LTE Band 2	1.20 dBi
	LTE Band 4	1.20 dBi
	LTE Band 5	0.73 dBi
	LTE Band 7	1.90 dBi
	LTE Band 17	0.32 dBi
Accessory Information:	AC Adapter 1	
	Brand Name:	FULLPOWER
	Model No.:	CGSW65-120-5000II
	Rated Input:	100-240V $\sim$ 50/60Hz 1.5A
	Rated Output:	12V $\equiv$ 5.0A

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	0.174	0.143	0.144	18M0G7D	18M0W7D	18M0D7W
15	0.173	0.146	0.144	13M5G7D	13M5W7D	13M5D7W
10	0.171	0.139	0.138	9M01G7D	8M98W7D	9M00D7W
5	0.171	0.142	0.14	4M52G7D	4M52W7D	4M51D7W
3	0.169	0.147	0.144	2M71G7D	2M71W7D	2M71D7W
1.4	0.171	0.143	0.147	1M10G7D	1M10W7D	1M10D7W
LTE Band4	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.175	0.141	0.138	18M0G7D	18M0W7D	18M0D7W
15	0.168	0.137	0.139	13M5G7D	13M5W7D	13M5D7W
10	0.168	0.142	0.138	9M00G7D	8M98W7D	9M00D7W
5	0.165	0.144	0.139	4M52G7D	4M52W7D	4M52D7W
3	0.162	0.14	0.132	2M71G7D	2M71W7D	2M72D7W
1.4	0.176	0.145	0.146	1M10G7D	1M10W7D	1M10D7W
LTE Band5	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.106	0.090	0.108	9M00G7D	8M97W7D	8M99D7W
5	0.103	0.086	0.108	4M53G7D	4M52W7D	4M51D7W
3	0.106	0.090	0.107	2M70G7D	2M70W7D	2M72D7W
1.4	0.105	0.089	0.109	1M10G7D	1M11W7D	1M11D7W
LTE Band7	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	0.227	0.177	0.183	18M05G7D	18M03W7D	18M0D7W
15	0.217	0.191	0.184	13M57G7D	13M56W7D	13M6D7W
10	0.215	0.185	0.177	9M08G7D	9M03W7D	9M06D7W
5	0.217	0.172	0.177	4M60G7D	4M57W7D	4M56D7W
LTE Band17	Maximum ERP/EIRP (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.100	0.085	0.098	9M04G7D	9M01W7D	9M03D7W
5	0.098	0.085	0.098	4M52G7D	4M52W7D	4M51D7W



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(c)(10) 27.50(d)(4), 27.50(h)(2)) 27.50(a)(3)	Transmitter Conducted Output Power and ERP/EIRP	Dec 29, 2019	Gao Mingzhou Peng Xuewei	PASS	No deviation
2.1049	Occupied Bandwidth	Dec 12, 2019	Gao Mingzhou	PASS	No deviation
2.1055, 22.355, 24.235, 27.54	Frequency Stability	Dec 12 to 16, 2019	Gao Mingzhou	PASS	No deviation
24.232(d), 27.50(d)(5)	Peak to Average Radio	Dec 11, 2019	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Conducted Spurious Emissions	Dec 11 and 13, 2019	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Band Edge	Dec 11, and 16, 2019	Gao Mingzhou	PASS	No deviation
2.1051, 22.917(a), 24.238, 27.53(g)(h) 27.53(m)(4)(a)(4)	Radiated Spurious Emissions	Dec 29 , 2019	Peng Xuewei	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 26.5dB contains two parts that cable loss 16.5dB 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, Part 22H, Part 24E and 27D&H&L&M Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

2.1.1. Requirement

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

According to FCC section 24.232 (c) for LTE Band 2/25, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

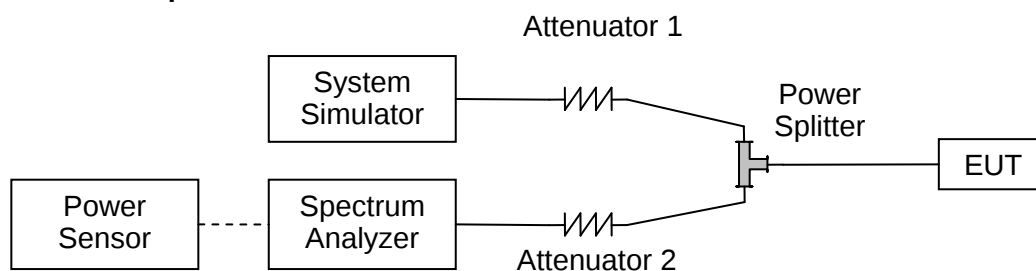
According to FCC section 27.50 (d) for LTE Band 4, fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

According to FCC section 22.913 (a.2) for LTE Band 5/26, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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

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

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 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.

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

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	20.83	20.77	20.95
20	QPSK	1	49	20.81	21.21	20.85
20	QPSK	1	99	20.71	21.12	20.75
20	QPSK	50	0	19.95	19.91	19.96
20	QPSK	50	24	19.84	20.06	19.82
20	QPSK	50	50	19.77	19.96	19.81
20	QPSK	100	0	19.92	20.13	19.87
20	16QAM	1	0	20.34	19.84	20.13
20	16QAM	1	49	20.23	20.12	20.07
20	16QAM	1	99	19.94	20.22	20.29
20	16QAM	50	0	18.96	18.91	18.85
20	16QAM	50	24	18.96	19.09	18.74
20	16QAM	50	50	18.67	19.01	18.86
20	16QAM	100	0	18.74	19.08	18.90
20	64QAM	1	0	20.13	20.01	20.09
20	64QAM	1	49	20.14	20.27	19.94
20	64QAM	1	99	19.87	20.37	19.94
20	64QAM	50	0	18.96	18.98	18.84
20	64QAM	50	24	18.83	19.12	18.73
20	64QAM	50	50	18.70	19.01	18.94
20	64QAM	100	0	18.94	19.16	18.86



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	21.01	20.95	21.13
15	QPSK	1	37	20.77	21.19	20.71
15	QPSK	1	74	20.78	20.84	20.95
15	QPSK	36	0	19.97	19.93	19.96
15	QPSK	36	20	19.86	19.99	19.74
15	QPSK	36	39	19.85	19.83	19.74
15	QPSK	75	0	19.90	19.89	19.82
15	16QAM	1	0	20.09	19.94	20.44
15	16QAM	1	37	20.30	20.43	20.09
15	16QAM	1	74	19.96	20.37	20.05
15	16QAM	36	0	18.89	19.11	18.95
15	16QAM	36	20	18.86	19.06	18.76
15	16QAM	36	39	18.84	18.91	18.61
15	16QAM	75	0	18.94	18.94	18.85
15	64QAM	1	0	20.22	19.88	20.37
15	64QAM	1	37	20.18	20.21	19.91
15	64QAM	1	74	18.93	19.07	18.98
15	64QAM	36	0	19.05	19.03	18.78
15	64QAM	36	20	18.84	18.99	18.73
15	64QAM	36	39	18.97	19.09	18.85
15	64QAM	75	0	21.01	20.95	21.13



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	20.84	20.77	21.04
10	QPSK	1	25	20.99	21.12	20.68
10	QPSK	1	49	20.77	20.97	21.02
10	QPSK	25	0	19.94	20.05	19.82
10	QPSK	25	12	19.97	20.03	19.94
10	QPSK	25	25	19.80	20.03	19.91
10	QPSK	50	0	19.97	19.98	19.87
10	16QAM	1	0	20.00	19.83	20.14
10	16QAM	1	25	19.89	20.24	19.97
10	16QAM	1	49	19.85	20.18	19.91
10	16QAM	25	0	19.10	19.29	18.80
10	16QAM	25	12	19.06	19.12	19.07
10	16QAM	25	25	18.95	19.03	18.81
10	16QAM	50	0	18.97	19.09	18.74
10	64QAM	1	0	19.72	19.78	20.08
10	64QAM	1	25	19.94	20.11	20.21
10	64QAM	1	49	19.87	20.16	19.77
10	64QAM	25	0	18.98	19.15	18.72
10	64QAM	25	12	18.76	19.17	18.97
10	64QAM	25	25	18.94	19.11	18.78
10	64QAM	50	0	19.01	19.03	18.86



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	20.80	21.05	20.93
5	QPSK	1	12	21.13	21.09	20.90
5	QPSK	1	24	20.95	20.98	20.92
5	QPSK	12	0	19.94	20.01	19.78
5	QPSK	12	7	19.87	20.02	19.90
5	QPSK	12	13	19.89	20.01	19.88
5	QPSK	25	0	19.91	19.94	19.84
5	16QAM	1	0	20.14	20.03	19.88
5	16QAM	1	12	20.25	19.83	20.11
5	16QAM	1	24	20.13	19.88	20.33
5	16QAM	12	0	18.91	19.23	18.89
5	16QAM	12	7	18.87	19.29	18.89
5	16QAM	12	13	18.82	19.28	18.92
5	16QAM	25	0	19.09	19.23	18.98
5	64QAM	1	0	20.06	20.08	20.04
5	64QAM	1	12	20.01	20.07	19.99
5	64QAM	1	24	20.27	19.82	20.01
5	64QAM	12	0	18.89	18.99	18.77
5	64QAM	12	7	18.83	19.05	18.93
5	64QAM	12	13	18.88	19.06	18.79
5	64QAM	25	0	19.00	18.94	18.82



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	20.84	21.04	20.91
3	QPSK	1	8	20.68	21.03	21.00
3	QPSK	1	14	20.89	21.08	20.91
3	QPSK	8	0	19.91	20.06	19.81
3	QPSK	8	4	19.88	20.08	19.83
3	QPSK	8	7	19.86	20.00	19.78
3	QPSK	15	0	19.87	19.99	19.76
3	16QAM	1	0	20.09	20.32	20.47
3	16QAM	1	8	20.10	20.31	20.14
3	16QAM	1	14	19.98	20.36	20.20
3	16QAM	8	0	19.00	18.91	18.84
3	16QAM	8	4	18.96	19.10	18.65
3	16QAM	8	7	19.12	19.10	19.05
3	16QAM	15	0	18.95	19.14	18.71
3	64QAM	1	0	20.10	20.00	20.36
3	64QAM	1	8	19.96	19.95	19.88
3	64QAM	1	14	20.05	20.37	20.06
3	64QAM	8	0	19.04	18.87	18.78
3	64QAM	8	4	19.10	18.91	18.66
3	64QAM	8	7	18.85	18.95	18.82
3	64QAM	15	0	19.15	19.08	18.75



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	20.91	20.91	20.90
1.4	QPSK	1	3	20.91	21.13	20.83
1.4	QPSK	1	5	20.82	21.03	20.73
1.4	QPSK	3	0	20.94	21.05	20.92
1.4	QPSK	3	1	20.90	21.06	20.95
1.4	QPSK	3	3	20.99	21.14	20.94
1.4	QPSK	6	0	19.99	20.06	19.88
1.4	16QAM	1	0	20.09	19.88	20.06
1.4	16QAM	1	3	20.34	20.25	20.08
1.4	16QAM	1	5	20.34	20.34	19.86
1.4	16QAM	3	0	20.11	20.18	20.00
1.4	16QAM	3	1	20.14	20.35	20.08
1.4	16QAM	3	3	20.01	20.22	19.89
1.4	16QAM	6	0	18.65	18.90	18.45
1.4	64QAM	1	0	20.33	20.29	19.95
1.4	64QAM	1	3	20.05	20.27	20.23
1.4	64QAM	1	5	20.00	20.21	20.33
1.4	64QAM	3	0	20.21	20.47	20.11
1.4	64QAM	3	1	20.07	20.25	20.21
1.4	64QAM	3	3	20.04	20.29	20.00
1.4	64QAM	6	0	18.98	19.18	18.86



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	20.85	20.84	21.22
20	QPSK	1	49	20.74	21.20	20.81
20	QPSK	1	99	20.81	20.72	20.77
20	QPSK	50	0	19.73	19.96	20.00
20	QPSK	50	24	19.73	19.84	19.74
20	QPSK	50	50	19.77	19.90	19.73
20	QPSK	100	0	19.80	19.89	19.75
20	16QAM	1	0	19.90	19.96	20.28
20	16QAM	1	49	20.12	20.22	19.82
20	16QAM	1	99	20.08	19.98	19.91
20	16QAM	50	0	18.76	19.04	19.15
20	16QAM	50	24	18.91	19.00	18.66
20	16QAM	50	50	18.85	18.87	18.67
20	16QAM	100	0	18.77	18.92	18.82
20	64QAM	1	0	19.84	19.96	20.12
20	64QAM	1	49	20.01	20.04	20.07
20	64QAM	1	99	20.20	20.09	19.87
20	64QAM	50	0	18.66	19.07	19.00
20	64QAM	50	24	18.91	18.96	18.73
20	64QAM	50	50	18.80	18.92	18.74
20	64QAM	100	0	18.92	18.92	18.78



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	23.42	23.55	23.37
15	QPSK	1	37	20.88	20.86	20.93
15	QPSK	1	74	20.60	21.06	20.66
15	QPSK	36	0	20.73	20.84	20.81
15	QPSK	36	20	19.67	19.88	19.85
15	QPSK	36	39	19.65	19.88	19.80
15	QPSK	75	0	19.69	19.94	19.67
15	16QAM	1	0	19.67	19.92	19.82
15	16QAM	1	37	20.08	19.78	20.18
15	16QAM	1	74	19.75	20.15	19.82
15	16QAM	36	0	20.12	19.99	19.72
15	16QAM	36	20	18.77	19.08	18.87
15	16QAM	36	39	18.58	19.04	18.82
15	16QAM	75	0	18.64	18.89	18.84
15	64QAM	1	0	18.70	18.95	18.77
15	64QAM	1	37	20.23	20.24	20.22
15	64QAM	1	74	19.88	20.24	19.95
15	64QAM	36	0	18.72	19.08	19.02
15	64QAM	36	20	18.70	19.05	18.95
15	64QAM	36	39	18.89	19.01	18.82
15	64QAM	75	0	18.76	18.96	18.84



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	20.74	20.73	20.79
10	QPSK	1	25	20.67	21.06	20.95
10	QPSK	1	49	20.64	20.63	20.86
10	QPSK	25	0	19.71	19.87	19.90
10	QPSK	25	12	19.72	19.95	19.86
10	QPSK	25	25	19.69	19.91	19.79
10	QPSK	50	0	19.69	19.91	19.88
10	16QAM	1	0	20.14	20.24	19.84
10	16QAM	1	25	19.84	20.22	20.31
10	16QAM	1	49	19.84	20.26	20.17
10	16QAM	25	0	18.81	19.21	19.10
10	16QAM	25	12	18.71	19.12	18.96
10	16QAM	25	25	18.74	18.81	18.99
10	16QAM	50	0	18.74	18.99	19.05
10	64QAM	1	0	20.03	20.13	19.88
10	64QAM	1	25	19.81	20.19	19.80
10	64QAM	1	49	19.71	19.94	20.04
10	64QAM	25	0	18.73	19.11	18.89
10	64QAM	25	12	18.66	18.90	18.98
10	64QAM	25	25	18.69	18.88	18.98
10	64QAM	50	0	18.83	18.92	18.86



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	20.65	20.78	20.63
5	QPSK	1	12	20.78	20.98	20.84
5	QPSK	1	24	20.62	20.60	20.93
5	QPSK	12	0	19.62	19.85	19.70
5	QPSK	12	7	19.66	19.78	19.71
5	QPSK	12	13	19.66	19.87	19.87
5	QPSK	25	0	19.66	19.77	19.79
5	16QAM	1	0	20.05	20.11	19.89
5	16QAM	1	12	19.97	20.13	20.09
5	16QAM	1	24	19.88	20.38	20.27
5	16QAM	12	0	18.82	18.89	18.62
5	16QAM	12	7	18.52	18.82	18.80
5	16QAM	12	13	18.48	18.98	18.91
5	16QAM	25	0	18.60	18.82	18.75
5	64QAM	1	0	19.85	20.24	19.93
5	64QAM	1	12	19.79	20.19	20.17
5	64QAM	1	24	19.75	19.83	20.12
5	64QAM	12	0	18.50	18.81	18.71
5	64QAM	12	7	18.59	18.71	18.80
5	64QAM	12	13	18.50	18.73	18.91
5	64QAM	25	0	18.56	18.81	18.74



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	20.61	20.86	20.66
3	QPSK	1	8	20.55	20.84	20.61
3	QPSK	1	14	20.61	20.78	20.89
3	QPSK	8	0	19.67	19.85	19.85
3	QPSK	8	4	19.66	19.79	19.89
3	QPSK	8	7	19.63	19.85	19.84
3	QPSK	15	0	19.66	19.77	19.79
3	16QAM	1	0	19.73	19.85	19.82
3	16QAM	1	8	19.65	20.03.	19.86
3	16QAM	1	14	20.03	20.1	20.07
3	16QAM	8	0	18.71	18.8	18.83
3	16QAM	8	4	18.94	18.88	18.88
3	16QAM	8	7	18.84	19.17	18.71
3	16QAM	15	0	18.64	18.96	18.85
3	64QAM	1	0	19.46	19.87	19.77
3	64QAM	1	8	19.42	19.86	19.78
3	64QAM	1	14	19.35	19.60	20.00
3	64QAM	8	0	18.34	18.94	18.81
3	64QAM	8	4	18.30	18.74	18.77
3	64QAM	8	7	18.52	18.97	18.82
3	64QAM	15	0	18.76	18.78	19.00



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	20.84	21.03	21.07
1.4	QPSK	1	3	20.72	21.06	21.07
1.4	QPSK	1	5	20.95	21.02	20.99
1.4	QPSK	3	0	20.84	21.18	21.05
1.4	QPSK	3	1	20.89	21.21	21.25
1.4	QPSK	3	3	20.91	21.22	21.21
1.4	QPSK	6	0	19.83	20.19	20.19
1.4	16QAM	1	0	20.17	20.38	19.96
1.4	16QAM	1	3	19.95	20.40	19.91
1.4	16QAM	1	5	20.05	20.36	20.16
1.4	16QAM	3	0	19.91	20.29	20.16
1.4	16QAM	3	1	19.94	20.23	20.20
1.4	16QAM	3	3	19.85	20.31	20.14
1.4	16QAM	6	0	18.68	19.05	18.95
1.4	64QAM	1	0	20.06	20.44	20.12
1.4	64QAM	1	3	20.01	20.23	20.28
1.4	64QAM	1	5	20.02	20.14	20.16
1.4	64QAM	3	0	20.00	19.97	19.92
1.4	64QAM	3	1	20.02	20.23	20.11
1.4	64QAM	3	3	20.16	20.30	20.13
1.4	64QAM	6	0	19.52	19.13	19.25



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	21.54	21.48	21.50
10	QPSK	1	25	21.50	21.69	21.47
10	QPSK	1	49	21.40	21.45	21.25
10	QPSK	25	0	20.66	20.67	20.68
10	QPSK	25	12	20.63	20.68	20.52
10	QPSK	25	25	20.56	20.62	20.47
10	QPSK	50	0	20.56	20.66	20.60
10	16QAM	1	0	20.64	20.97	20.62
10	16QAM	1	25	20.77	20.75	20.66
10	16QAM	1	49	20.57	20.61	20.54
10	16QAM	25	0	19.74	19.84	19.73
10	16QAM	25	12	19.53	19.57	19.57
10	16QAM	25	25	19.60	19.67	19.55
10	16QAM	50	0	19.46	19.74	19.50
10	64QAM	1	0	20.63	20.55	20.63
10	64QAM	1	25	20.62	20.53	20.77
10	64QAM	1	49	20.84	20.56	20.43
10	64QAM	25	0	19.70	19.74	19.69
10	64QAM	25	12	19.82	19.69	19.52
10	64QAM	25	25	19.42	19.74	19.52
10	64QAM	50	0	19.61	19.81	19.57



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	21.39	21.55	21.55
5	QPSK	1	12	21.54	21.54	21.54
5	QPSK	1	24	21.32	21.41	21.39
5	QPSK	12	0	20.68	20.54	20.61
5	QPSK	12	7	20.49	20.59	20.56
5	QPSK	12	13	20.46	20.61	20.51
5	QPSK	25	0	20.53	20.58	20.45
5	16QAM	1	0	20.72	20.79	20.59
5	16QAM	1	12	20.70	20.78	20.35
5	16QAM	1	24	20.29	20.35	20.48
5	16QAM	12	0	19.57	19.63	19.56
5	16QAM	12	7	19.58	19.62	19.52
5	16QAM	12	13	19.62	19.71	19.73
5	16QAM	25	0	20.54	20.77	20.67
5	64QAM	1	0	20.48	20.68	20.54
5	64QAM	1	12	20.45	20.74	20.24
5	64QAM	1	24	19.51	19.39	19.65
5	64QAM	12	0	19.57	19.63	19.75
5	64QAM	12	7	19.50	19.54	19.66
5	64QAM	12	13	19.58	19.71	19.63
5	64QAM	25	0	21.39	21.55	21.55



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	21.30	21.57	21.67
3	QPSK	1	8	21.47	21.34	21.35
3	QPSK	1	14	21.19	21.68	21.29
3	QPSK	8	0	20.58	20.60	20.58
3	QPSK	8	4	20.58	20.64	20.57
3	QPSK	8	7	20.60	20.61	20.49
3	QPSK	15	0	20.54	20.56	20.54
3	16QAM	1	0	20.76	20.62	20.66
3	16QAM	1	8	20.82	20.92	20.62
3	16QAM	1	14	20.54	20.94	20.62
3	16QAM	8	0	19.75	19.82	19.76
3	16QAM	8	4	19.75	19.83	19.65
3	16QAM	8	7	19.67	19.80	19.71
3	16QAM	15	0	19.62	19.68	19.86
3	64QAM	1	0	20.57	20.67	20.62
3	64QAM	1	8	20.50	20.36	20.46
3	64QAM	1	14	20.57	20.66	20.48
3	64QAM	8	0	19.50	19.60	19.71
3	64QAM	8	4	19.58	19.79	19.67
3	64QAM	8	7	19.52	19.81	19.46
3	64QAM	15	0	19.57	19.64	19.62



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	21.59	21.40	21.45
1.4	QPSK	1	3	21.43	21.48	21.19
1.4	QPSK	1	5	21.45	21.54	21.16
1.4	QPSK	3	0	21.51	21.53	21.45
1.4	QPSK	3	1	21.44	21.57	21.48
1.4	QPSK	3	3	21.61	21.63	21.39
1.4	QPSK	6	0	20.53	20.67	20.52
1.4	16QAM	1	0	20.92	20.87	20.46
1.4	16QAM	1	3	20.87	20.68	20.85
1.4	16QAM	1	5	20.89	20.71	20.64
1.4	16QAM	3	0	20.71	20.79	20.49
1.4	16QAM	3	1	20.76	20.80	20.51
1.4	16QAM	3	3	20.77	20.75	20.41
1.4	16QAM	6	0	19.20	19.50	19.44
1.4	64QAM	1	0	20.48	20.45	20.63
1.4	64QAM	1	3	20.87	20.80	20.91
1.4	64QAM	1	5	20.50	20.82	20.54
1.4	64QAM	3	0	20.86	20.79	20.56
1.4	64QAM	3	1	21.04	20.85	20.79
1.4	64QAM	3	3	20.81	20.59	20.76
1.4	64QAM	6	0	19.63	19.66	19.54



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	21.18	21.54	21.39
20	QPSK	1	49	21.66	21.36	21.61
20	QPSK	1	99	21.23	21.24	21.16
20	QPSK	50	0	20.19	20.39	20.42
20	QPSK	50	24	20.25	20.12	20.35
20	QPSK	50	50	20.25	20.24	20.31
20	QPSK	100	0	20.31	20.20	20.47
20	16QAM	1	0	20.12	20.38	20.18
20	16QAM	1	49	20.33	20.27	20.42
20	16QAM	1	99	20.58	20.39	20.48
20	16QAM	50	0	19.41	19.26	19.42
20	16QAM	50	24	19.32	19.07	19.45
20	16QAM	50	50	19.22	19.20	19.35
20	16QAM	100	0	19.28	19.21	19.51
20	64QAM	1	0	20.23	20.49	20.30
20	64QAM	1	49	20.73	20.29	20.33
20	64QAM	1	99	20.23	20.25	20.29
20	64QAM	50	0	19.46	19.26	19.39
20	64QAM	50	24	19.32	19.11	19.47
20	64QAM	50	50	19.32	19.22	19.34
20	64QAM	100	0	19.28	19.29	19.48



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	21.02	21.45	21.31
15	QPSK	1	37	21.23	21.24	21.43
15	QPSK	1	74	21.47	21.18	21.14
15	QPSK	36	0	20.29	20.35	20.40
15	QPSK	36	20	20.08	20.20	20.35
15	QPSK	36	39	20.23	20.18	20.23
15	QPSK	75	0	20.31	20.23	20.31
15	16QAM	1	0	20.45	20.89	20.72
15	16QAM	1	37	20.43	20.49	20.44
15	16QAM	1	74	20.91	20.51	20.57
15	16QAM	36	0	19.39	19.37	19.50
15	16QAM	36	20	19.16	19.22	19.43
15	16QAM	36	39	19.22	19.27	19.33
15	16QAM	75	0	19.25	19.22	19.32
15	64QAM	1	0	20.46	20.74	20.42
15	64QAM	1	37	20.36	20.26	20.61
15	64QAM	1	74	19.64	19.42	19.41
15	64QAM	36	0	19.35	19.25	19.30
15	64QAM	36	20	19.28	19.28	19.36
15	64QAM	36	39	19.32	19.24	19.32
15	64QAM	75	0	21.02	21.45	21.31



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	20.97	21.43	21.32
10	QPSK	1	25	20.94	21.23	21.41
10	QPSK	1	49	21.35	21.08	20.94
10	QPSK	25	0	20.60	20.32	20.44
10	QPSK	25	12	20.33	20.19	20.23
10	QPSK	25	25	20.26	20.22	20.22
10	QPSK	50	0	20.28	20.17	20.24
10	16QAM	1	0	20.29	20.78	20.71
10	16QAM	1	25	20.31	20.34	20.42
10	16QAM	1	49	20.68	20.60	20.32
10	16QAM	25	0	19.57	19.37	19.48
10	16QAM	25	12	19.45	19.28	19.15
10	16QAM	25	25	19.46	19.11	19.22
10	16QAM	50	0	19.29	19.12	19.31
10	64QAM	1	0	20.26	20.58	20.42
10	64QAM	1	25	20.16	20.36	20.25
10	64QAM	1	49	20.47	20.11	20.39
10	64QAM	25	0	19.68	19.37	19.57
10	64QAM	25	12	19.41	19.25	19.38
10	64QAM	25	25	19.36	19.26	19.26
10	64QAM	50	0	19.36	19.26	19.30



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	21.05	21.40	21.46
5	QPSK	1	12	20.97	21.42	21.45
5	QPSK	1	24	20.96	21.08	21.16
5	QPSK	12	0	20.64	20.24	20.33
5	QPSK	12	7	20.32	20.16	20.17
5	QPSK	12	13	20.36	20.18	20.15
5	QPSK	25	0	20.26	20.17	20.19
5	16QAM	1	0	20.32	20.35	20.45
5	16QAM	1	12	19.97	19.96	20.22
5	16QAM	1	24	20.25	20.21	20.25
5	16QAM	12	0	19.41	19.33	19.29
5	16QAM	12	7	19.44	19.10	19.37
5	16QAM	12	13	19.36	19.14	19.24
5	16QAM	25	0	19.43	19.12	19.25
5	64QAM	1	0	20.58	20.54	20.54
5	64QAM	1	12	20.45	20.29	20.27
5	64QAM	1	24	20.24	20.12	20.09
5	64QAM	12	0	19.58	19.26	19.38
5	64QAM	12	7	19.29	19.16	19.21
5	64QAM	12	13	19.34	19.15	19.11
5	64QAM	25	0	19.44	19.19	19.28



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	21.69	21.49	21.41
10	QPSK	1	25	21.70	21.63	21.79
10	QPSK	1	49	21.64	21.80	21.82
10	QPSK	25	0	20.45	20.40	20.41
10	QPSK	25	12	20.52	20.52	20.58
10	QPSK	25	25	20.53	20.71	20.65
10	QPSK	50	0	20.58	20.58	20.47
10	16QAM	1	0	20.65	20.77	20.92
10	16QAM	1	25	21.09	20.83	21.03
10	16QAM	1	49	21.14	20.86	20.68
10	16QAM	25	0	19.49	19.49	19.55
10	16QAM	25	12	19.59	19.54	19.71
10	16QAM	25	25	19.39	19.81	19.79
10	16QAM	50	0	19.57	19.64	19.51
10	64QAM	1	0	20.81	20.69	20.75
10	64QAM	1	25	20.68	20.90	21.00
10	64QAM	1	49	21.04	21.10	20.82
10	64QAM	25	0	19.46	19.57	19.53
10	64QAM	25	12	19.57	19.63	19.51
10	64QAM	25	25	19.49	19.71	19.76
10	64QAM	50	0	19.58	19.60	19.63



LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23790	23155
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	21.60	21.37	21.40
5	QPSK	1	12	21.54	21.53	21.74
5	QPSK	1	24	21.38	21.64	21.71
5	QPSK	12	0	20.41	20.31	20.64
5	QPSK	12	7	20.29	20.49	20.54
5	QPSK	12	13	20.28	20.42	20.55
5	QPSK	25	0	20.31	20.54	20.63
5	16QAM	1	0	20.84	20.62	20.80
5	16QAM	1	12	20.91	20.75	21.08
5	16QAM	1	24	21.11	21.10	21.05
5	16QAM	12	0	19.38	19.39	19.74
5	16QAM	12	7	19.46	19.55	19.57
5	16QAM	12	13	19.29	19.65	19.62
5	16QAM	25	0	19.34	19.68	19.57
5	64QAM	1	0	20.77	20.78	20.61
5	64QAM	1	12	20.52	20.41	20.88
5	64QAM	1	24	19.33	19.23	19.28
5	64QAM	12	0	19.16	19.42	19.41
5	64QAM	12	7	19.20	19.30	19.46
5	64QAM	12	13	19.26	19.71	19.64
5	64QAM	25	0	21.60	21.37	21.40

**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	22.03	0.160	21.97	0.157	22.15	0.164
20	QPSK	1	49	22.01	0.159	22.41	0.174	22.05	0.160
20	QPSK	1	99	21.91	0.155	22.32	0.171	21.95	0.157
20	QPSK	50	0	21.15	0.130	21.11	0.129	21.16	0.131
20	QPSK	50	24	21.04	0.127	21.26	0.134	21.02	0.126
20	QPSK	50	50	20.97	0.125	21.16	0.131	21.01	0.126
20	QPSK	100	0	21.12	0.129	21.33	0.136	21.07	0.128
20	16QAM	1	0	21.54	0.143	21.04	0.127	21.33	0.136
20	16QAM	1	49	21.43	0.139	21.32	0.136	21.27	0.134
20	16QAM	1	99	21.14	0.130	21.42	0.139	21.49	0.141
20	16QAM	50	0	20.16	0.104	20.11	0.103	20.05	0.101
20	16QAM	50	24	20.16	0.104	20.29	0.107	19.94	0.099
20	16QAM	50	50	19.87	0.097	20.21	0.105	20.06	0.101
20	16QAM	100	0	19.94	0.099	20.28	0.107	20.10	0.102
20	64QAM	1	0	21.33	0.136	21.21	0.132	21.29	0.135
20	64QAM	1	49	21.34	0.136	21.47	0.140	21.14	0.130
20	64QAM	1	99	21.07	0.128	21.57	0.144	21.14	0.130
20	64QAM	50	0	20.16	0.104	20.18	0.104	20.04	0.101
20	64QAM	50	24	20.03	0.101	20.32	0.108	19.93	0.098
20	64QAM	50	50	19.90	0.098	20.21	0.105	20.14	0.103
20	64QAM	100	0	20.14	0.103	20.36	0.109	20.06	0.101



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	22.21	0.166	22.15	0.164	22.33	0.171
15	QPSK	1	37	21.97	0.157	22.39	0.173	21.91	0.155
15	QPSK	1	74	21.98	0.158	22.04	0.160	22.15	0.164
15	QPSK	36	0	21.17	0.131	21.13	0.130	21.16	0.131
15	QPSK	36	20	21.06	0.128	21.19	0.132	20.94	0.124
15	QPSK	36	39	21.05	0.127	21.03	0.127	20.94	0.124
15	QPSK	75	0	21.10	0.129	21.09	0.129	21.02	0.126
15	16QAM	1	0	21.29	0.135	21.14	0.130	21.64	0.146
15	16QAM	1	37	21.50	0.141	21.63	0.146	21.29	0.135
15	16QAM	1	74	21.16	0.131	21.57	0.144	21.25	0.133
15	16QAM	36	0	20.09	0.102	20.31	0.107	20.15	0.104
15	16QAM	36	20	20.06	0.101	20.26	0.106	19.96	0.099
15	16QAM	36	39	20.04	0.101	20.11	0.103	19.81	0.096
15	16QAM	75	0	20.14	0.103	20.14	0.103	20.05	0.101
15	64QAM	1	0	21.42	0.139	21.08	0.128	21.57	0.144
15	64QAM	1	37	21.38	0.137	21.41	0.138	21.11	0.129
15	64QAM	1	74	20.13	0.103	20.27	0.106	20.18	0.104
15	64QAM	36	0	20.25	0.106	20.23	0.105	19.98	0.100
15	64QAM	36	20	20.04	0.101	20.19	0.104	19.93	0.098
15	64QAM	36	39	20.17	0.104	20.29	0.107	20.05	0.101
15	64QAM	75	0	20.14	0.103	20.36	0.109	20.06	0.101



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	22.04	0.160	21.97	0.157	22.24	0.167
10	QPSK	1	25	22.19	0.166	22.32	0.171	21.88	0.154
10	QPSK	1	49	21.97	0.157	22.17	0.165	22.22	0.167
10	QPSK	25	0	21.14	0.130	21.25	0.133	21.02	0.126
10	QPSK	25	12	21.17	0.131	21.23	0.133	21.14	0.130
10	QPSK	25	25	21.00	0.126	21.23	0.133	21.11	0.129
10	QPSK	50	0	21.17	0.131	21.18	0.131	21.07	0.128
10	16QAM	1	0	21.20	0.132	21.03	0.127	21.34	0.136
10	16QAM	1	25	21.09	0.129	21.44	0.139	21.17	0.131
10	16QAM	1	49	21.05	0.127	21.38	0.137	21.11	0.129
10	16QAM	25	0	20.30	0.107	20.49	0.112	20.00	0.100
10	16QAM	25	12	20.26	0.106	20.32	0.108	20.27	0.106
10	16QAM	25	25	20.15	0.104	20.23	0.105	20.01	0.100
10	16QAM	50	0	20.17	0.104	20.29	0.107	19.94	0.099
10	64QAM	1	0	20.92	0.124	20.98	0.125	21.28	0.134
10	64QAM	1	25	21.14	0.130	21.31	0.135	21.41	0.138
10	64QAM	1	49	21.07	0.128	21.36	0.137	20.97	0.125
10	64QAM	25	0	20.18	0.104	20.35	0.108	19.92	0.098
10	64QAM	25	12	19.96	0.099	20.37	0.109	20.17	0.104
10	64QAM	25	25	20.14	0.103	20.31	0.107	19.98	0.100
10	64QAM	50	0	20.21	0.105	20.23	0.105	20.06	0.101



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	22.00	0.158	22.25	0.168	22.13	0.163
5	QPSK	1	12	22.33	0.171	22.29	0.169	22.10	0.162
5	QPSK	1	24	22.15	0.164	22.18	0.165	22.12	0.163
5	QPSK	12	0	21.14	0.130	21.21	0.132	20.98	0.125
5	QPSK	12	7	21.07	0.128	21.22	0.132	21.10	0.129
5	QPSK	12	13	21.09	0.129	21.21	0.132	21.08	0.128
5	QPSK	25	0	21.11	0.129	21.14	0.130	21.04	0.127
5	16QAM	1	0	21.34	0.136	21.23	0.133	21.08	0.128
5	16QAM	1	12	21.45	0.140	21.03	0.127	21.31	0.135
5	16QAM	1	24	21.33	0.136	21.08	0.128	21.53	0.142
5	16QAM	12	0	20.11	0.103	20.43	0.110	20.09	0.102
5	16QAM	12	7	20.07	0.102	20.49	0.112	20.09	0.102
5	16QAM	12	13	20.02	0.100	20.48	0.112	20.12	0.103
5	16QAM	25	0	20.29	0.107	20.43	0.110	20.18	0.104
5	64QAM	1	0	21.26	0.134	21.28	0.134	21.24	0.133
5	64QAM	1	12	21.21	0.132	21.27	0.134	21.19	0.132
5	64QAM	1	24	21.47	0.140	21.02	0.126	21.21	0.132
5	64QAM	12	0	20.09	0.102	20.19	0.104	19.97	0.099
5	64QAM	12	7	20.03	0.101	20.25	0.106	20.13	0.103
5	64QAM	12	13	20.08	0.102	20.26	0.106	19.99	0.100
5	64QAM	25	0	20.20	0.105	20.14	0.103	20.02	0.100



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	22.04	0.160	22.24	0.167	22.11	0.163
3	QPSK	1	8	21.88	0.154	22.23	0.167	22.20	0.166
3	QPSK	1	14	22.09	0.162	22.28	0.169	22.11	0.163
3	QPSK	8	0	21.11	0.129	21.26	0.134	21.01	0.126
3	QPSK	8	4	21.08	0.128	21.28	0.134	21.03	0.127
3	QPSK	8	7	21.06	0.128	21.20	0.132	20.98	0.125
3	QPSK	15	0	21.07	0.128	21.19	0.132	20.96	0.125
3	16QAM	1	0	21.29	0.135	21.52	0.142	21.67	0.147
3	16QAM	1	8	21.30	0.135	21.51	0.142	21.34	0.136
3	16QAM	1	14	21.18	0.131	21.56	0.143	21.40	0.138
3	16QAM	8	0	20.20	0.105	20.11	0.103	20.04	0.101
3	16QAM	8	4	20.16	0.104	20.30	0.107	19.85	0.097
3	16QAM	8	7	20.32	0.108	20.30	0.107	20.25	0.106
3	16QAM	15	0	20.15	0.104	20.34	0.108	19.91	0.098
3	64QAM	1	0	21.30	0.135	21.20	0.132	21.56	0.143
3	64QAM	1	8	21.16	0.131	21.15	0.130	21.08	0.128
3	64QAM	1	14	21.25	0.133	21.57	0.144	21.26	0.134
3	64QAM	8	0	20.24	0.106	20.07	0.102	19.98	0.100
3	64QAM	8	4	20.30	0.107	20.11	0.103	19.86	0.097
3	64QAM	8	7	20.05	0.101	20.15	0.104	20.02	0.100
3	64QAM	15	0	20.35	0.108	20.28	0.107	19.95	0.099



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	22.11	0.163	22.11	0.163	22.10	0.162
1.4	QPSK	1	3	22.11	0.163	22.33	0.171	22.03	0.160
1.4	QPSK	1	5	22.02	0.159	22.23	0.167	21.93	0.156
1.4	QPSK	3	0	22.14	0.164	22.25	0.168	22.12	0.163
1.4	QPSK	3	1	22.10	0.162	22.26	0.168	22.15	0.164
1.4	QPSK	3	3	22.19	0.166	22.34	0.171	22.14	0.164
1.4	QPSK	6	0	21.19	0.132	21.26	0.134	21.08	0.128
1.4	16QAM	1	0	21.29	0.135	21.08	0.128	21.26	0.134
1.4	16QAM	1	3	21.54	0.143	21.45	0.140	21.28	0.134
1.4	16QAM	1	5	21.54	0.143	21.54	0.143	21.06	0.128
1.4	16QAM	3	0	21.31	0.135	21.38	0.137	21.20	0.132
1.4	16QAM	3	1	21.34	0.136	21.55	0.143	21.28	0.134
1.4	16QAM	3	3	21.21	0.132	21.42	0.139	21.09	0.129
1.4	16QAM	6	0	19.85	0.097	20.10	0.102	19.65	0.092
1.4	64QAM	1	0	21.53	0.142	21.49	0.141	21.15	0.130
1.4	64QAM	1	3	21.25	0.133	21.47	0.140	21.43	0.139
1.4	64QAM	1	5	21.20	0.132	21.41	0.138	21.53	0.142
1.4	64QAM	3	0	21.41	0.138	21.67	0.147	21.31	0.135
1.4	64QAM	3	1	21.27	0.134	21.45	0.140	21.41	0.138
1.4	64QAM	3	3	21.24	0.133	21.49	0.141	21.20	0.132
1.4	64QAM	6	0	20.18	0.104	20.38	0.109	20.06	0.101



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	22.05	0.160	22.04	0.160	22.42	0.175
20	QPSK	1	49	21.94	0.156	22.40	0.174	22.01	0.159
20	QPSK	1	99	22.01	0.159	21.92	0.156	21.97	0.157
20	QPSK	50	0	20.93	0.124	21.16	0.131	21.20	0.132
20	QPSK	50	24	20.93	0.124	21.04	0.127	20.94	0.124
20	QPSK	50	50	20.97	0.125	21.10	0.129	20.93	0.124
20	QPSK	100	0	21.00	0.126	21.09	0.129	20.95	0.124
20	16QAM	1	0	21.10	0.129	21.16	0.131	21.48	0.141
20	16QAM	1	49	21.32	0.136	21.42	0.139	21.02	0.126
20	16QAM	1	99	21.28	0.134	21.18	0.131	21.11	0.129
20	16QAM	50	0	19.96	0.099	20.24	0.106	20.35	0.108
20	16QAM	50	24	20.11	0.103	20.20	0.105	19.86	0.097
20	16QAM	50	50	20.05	0.101	20.07	0.102	19.87	0.097
20	16QAM	100	0	19.97	0.099	20.12	0.103	20.02	0.100
20	64QAM	1	0	21.04	0.127	21.16	0.131	21.32	0.136
20	64QAM	1	49	21.21	0.132	21.24	0.133	21.27	0.134
20	64QAM	1	99	21.40	0.138	21.29	0.135	21.07	0.128
20	64QAM	50	0	19.86	0.097	20.27	0.106	20.20	0.105
20	64QAM	50	24	20.11	0.103	20.16	0.104	19.93	0.098
20	64QAM	50	50	20.00	0.100	20.12	0.103	19.94	0.099
20	64QAM	100	0	20.12	0.103	20.12	0.103	19.98	0.100



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	22.08	0.161	22.06	0.161	22.13	0.163
15	QPSK	1	37	21.80	0.151	22.26	0.168	21.86	0.153
15	QPSK	1	74	21.93	0.156	22.04	0.160	22.01	0.159
15	QPSK	36	0	20.87	0.122	21.08	0.128	21.05	0.127
15	QPSK	36	20	20.85	0.122	21.08	0.128	21.00	0.126
15	QPSK	36	39	20.89	0.123	21.14	0.130	20.87	0.122
15	QPSK	75	0	20.87	0.122	21.12	0.129	21.02	0.126
15	16QAM	1	0	21.28	0.134	20.98	0.125	21.38	0.137
15	16QAM	1	37	20.95	0.124	21.35	0.136	21.02	0.126
15	16QAM	1	74	21.32	0.136	21.19	0.132	20.92	0.124
15	16QAM	36	0	19.97	0.099	20.28	0.107	20.07	0.102
15	16QAM	36	20	19.78	0.095	20.24	0.106	20.02	0.100
15	16QAM	36	39	19.84	0.096	20.09	0.102	20.04	0.101
15	16QAM	75	0	19.90	0.098	20.15	0.104	19.97	0.099
15	64QAM	1	0	21.43	0.139	21.44	0.139	21.42	0.139
15	64QAM	1	37	21.08	0.128	21.44	0.139	21.15	0.130
15	64QAM	1	74	19.92	0.098	20.28	0.107	20.22	0.105
15	64QAM	36	0	19.90	0.098	20.25	0.106	20.15	0.104
15	64QAM	36	20	20.09	0.102	20.21	0.105	20.02	0.100
15	64QAM	36	39	19.96	0.099	20.16	0.104	20.04	0.101
15	64QAM	75	0	20.12	0.103	20.12	0.103	19.98	0.100



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	21.94	0.156	21.93	0.156	21.99	0.158
10	QPSK	1	25	21.87	0.154	22.26	0.168	22.15	0.164
10	QPSK	1	49	21.84	0.153	21.83	0.152	22.06	0.161
10	QPSK	25	0	20.91	0.123	21.07	0.128	21.10	0.129
10	QPSK	25	12	20.92	0.124	21.15	0.130	21.06	0.128
10	QPSK	25	25	20.89	0.123	21.11	0.129	20.99	0.126
10	QPSK	50	0	20.89	0.123	21.11	0.129	21.08	0.128
10	16QAM	1	0	21.34	0.136	21.44	0.139	21.04	0.127
10	16QAM	1	25	21.04	0.127	21.42	0.139	21.51	0.142
10	16QAM	1	49	21.04	0.127	21.46	0.140	21.37	0.137
10	16QAM	25	0	20.01	0.100	20.41	0.110	20.30	0.107
10	16QAM	25	12	19.91	0.098	20.32	0.108	20.16	0.104
10	16QAM	25	25	19.94	0.099	20.01	0.100	20.19	0.104
10	16QAM	50	0	19.94	0.099	20.19	0.104	20.25	0.106
10	64QAM	1	0	21.23	0.133	21.33	0.136	21.08	0.128
10	64QAM	1	25	21.01	0.126	21.39	0.138	21.00	0.126
10	64QAM	1	49	20.91	0.123	21.14	0.130	21.24	0.133
10	64QAM	25	0	19.93	0.098	20.31	0.107	20.09	0.102
10	64QAM	25	12	19.86	0.097	20.10	0.102	20.18	0.104
10	64QAM	25	25	19.89	0.097	20.08	0.102	20.18	0.104
10	64QAM	50	0	20.03	0.101	20.12	0.103	20.06	0.101



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	21.85	0.153	21.98	0.158	21.83	0.152
5	QPSK	1	12	21.98	0.158	22.18	0.165	22.04	0.160
5	QPSK	1	24	21.82	0.152	21.80	0.151	22.13	0.163
5	QPSK	12	0	20.82	0.121	21.05	0.127	20.90	0.123
5	QPSK	12	7	20.86	0.122	20.98	0.125	20.91	0.123
5	QPSK	12	13	20.86	0.122	21.07	0.128	21.07	0.128
5	QPSK	25	0	20.86	0.122	20.97	0.125	20.99	0.126
5	16QAM	1	0	21.25	0.133	21.31	0.135	21.09	0.129
5	16QAM	1	12	21.17	0.131	21.33	0.136	21.29	0.135
5	16QAM	1	24	21.08	0.128	21.58	0.144	21.47	0.140
5	16QAM	12	0	20.02	0.100	20.09	0.102	19.82	0.096
5	16QAM	12	7	19.72	0.094	20.02	0.100	20.00	0.100
5	16QAM	12	13	19.68	0.093	20.18	0.104	20.11	0.103
5	16QAM	25	0	19.80	0.095	20.02	0.100	19.95	0.099
5	64QAM	1	0	21.05	0.127	21.44	0.139	21.13	0.130
5	64QAM	1	12	20.99	0.126	21.39	0.138	21.37	0.137
5	64QAM	1	24	20.95	0.124	21.03	0.127	21.32	0.136
5	64QAM	12	0	19.70	0.093	20.01	0.100	19.91	0.098
5	64QAM	12	7	19.79	0.095	19.91	0.098	20.00	0.100
5	64QAM	12	13	19.70	0.093	19.93	0.098	20.11	0.103
5	64QAM	25	0	19.76	0.095	20.01	0.100	19.94	0.099



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	21.81	0.152	22.06	0.161	21.86	0.153
3	QPSK	1	8	21.75	0.150	22.04	0.160	21.81	0.152
3	QPSK	1	14	21.81	0.152	21.98	0.158	22.09	0.162
3	QPSK	8	0	20.87	0.122	21.05	0.127	21.05	0.127
3	QPSK	8	4	20.86	0.122	20.99	0.126	21.09	0.129
3	QPSK	8	7	20.83	0.121	21.05	0.127	21.04	0.127
3	QPSK	15	0	20.86	0.122	20.97	0.125	20.99	0.126
3	16QAM	1	0	20.93	0.124	21.05	0.127	21.02	0.126
3	16QAM	1	8	20.78	0.120	21.33	0.136	21.06	0.128
3	16QAM	1	14	21.23	0.133	21.45	0.140	21.37	0.137
3	16QAM	8	0	19.91	0.098	20.00	0.100	20.03	0.101
3	16QAM	8	4	20.14	0.103	20.08	0.102	20.08	0.102
3	16QAM	8	7	20.04	0.101	20.37	0.109	19.91	0.098
3	16QAM	15	0	19.84	0.096	20.16	0.104	20.05	0.101
3	64QAM	1	0	20.66	0.116	21.07	0.128	20.97	0.125
3	64QAM	1	8	20.62	0.115	21.06	0.128	20.98	0.125
3	64QAM	1	14	20.55	0.114	20.80	0.120	21.20	0.132
3	64QAM	8	0	19.54	0.090	20.14	0.103	20.01	0.100
3	64QAM	8	4	19.50	0.089	19.94	0.099	19.97	0.099
3	64QAM	8	7	19.72	0.094	20.17	0.104	20.02	0.100
3	64QAM	15	0	19.96	0.099	19.98	0.100	20.20	0.105



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	22.04	0.160	22.23	0.167	22.27	0.169
1.4	QPSK	1	3	21.92	0.156	22.26	0.168	22.27	0.169
1.4	QPSK	1	5	22.15	0.164	22.22	0.167	22.19	0.166
1.4	QPSK	3	0	22.04	0.160	22.38	0.173	22.25	0.168
1.4	QPSK	3	1	22.09	0.162	22.41	0.174	22.45	0.176
1.4	QPSK	3	3	22.11	0.163	22.42	0.175	22.41	0.174
1.4	QPSK	6	0	21.03	0.127	21.39	0.138	21.39	0.138
1.4	16QAM	1	0	21.37	0.137	21.58	0.144	21.16	0.131
1.4	16QAM	1	3	21.15	0.130	21.60	0.145	21.11	0.129
1.4	16QAM	1	5	21.25	0.133	21.56	0.143	21.36	0.137
1.4	16QAM	3	0	21.11	0.129	21.49	0.141	21.36	0.137
1.4	16QAM	3	1	21.14	0.130	21.43	0.139	21.40	0.138
1.4	16QAM	3	3	21.05	0.127	21.51	0.142	21.34	0.136
1.4	16QAM	6	0	19.88	0.097	20.25	0.106	20.15	0.104
1.4	64QAM	1	0	21.26	0.134	21.64	0.146	21.32	0.136
1.4	64QAM	1	3	21.21	0.132	21.43	0.139	21.48	0.141
1.4	64QAM	1	5	21.22	0.132	21.34	0.136	21.36	0.137
1.4	64QAM	3	0	21.20	0.132	21.17	0.131	21.12	0.129
1.4	64QAM	3	1	21.22	0.132	21.43	0.139	21.31	0.135
1.4	64QAM	3	3	21.36	0.137	21.50	0.141	21.33	0.136
1.4	64QAM	6	0	20.72	0.118	20.33	0.108	20.45	0.111



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	20.12	0.103	20.06	0.101	20.08	0.102
10	QPSK	1	25	20.08	0.102	20.27	0.106	20.05	0.101
10	QPSK	1	49	19.98	0.100	20.03	0.101	19.83	0.096
10	QPSK	25	0	19.24	0.084	19.25	0.084	19.26	0.084
10	QPSK	25	12	19.21	0.083	19.26	0.084	19.10	0.081
10	QPSK	25	25	19.14	0.082	19.20	0.083	19.05	0.080
10	QPSK	50	0	19.14	0.082	19.24	0.084	19.18	0.083
10	16QAM	1	0	19.22	0.084	19.55	0.090	19.20	0.083
10	16QAM	1	25	19.35	0.086	19.33	0.086	19.24	0.084
10	16QAM	1	49	19.15	0.082	19.19	0.083	19.12	0.082
10	16QAM	25	0	18.32	0.068	18.42	0.070	18.31	0.068
10	16QAM	25	12	18.11	0.065	18.15	0.065	18.15	0.065
10	16QAM	25	25	18.18	0.066	18.25	0.067	18.13	0.065
10	16QAM	50	0	18.04	0.064	18.32	0.068	18.08	0.064
10	64QAM	1	0	19.21	0.083	19.13	0.082	19.21	0.083
10	64QAM	1	25	19.20	0.083	19.11	0.081	19.35	0.086
10	64QAM	1	49	19.42	0.087	19.14	0.082	19.01	0.080
10	64QAM	25	0	18.28	0.067	18.32	0.068	18.27	0.067
10	64QAM	25	12	18.40	0.069	18.27	0.067	18.10	0.065
10	64QAM	25	25	18.00	0.063	18.32	0.068	18.10	0.065
10	64QAM	50	0	20.34	0.108	18.39	0.069	18.15	0.065



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	19.97	0.099	20.13	0.103	20.13	0.103
5	QPSK	1	12	20.12	0.103	20.12	0.103	20.12	0.103
5	QPSK	1	24	19.90	0.098	19.99	0.100	19.97	0.099
5	QPSK	12	0	19.26	0.084	19.12	0.082	19.19	0.083
5	QPSK	12	7	19.07	0.081	19.17	0.083	19.14	0.082
5	QPSK	12	13	19.04	0.080	19.19	0.083	19.09	0.081
5	QPSK	25	0	19.11	0.081	19.16	0.082	19.03	0.080
5	16QAM	1	0	19.30	0.085	19.37	0.086	19.17	0.083
5	16QAM	1	12	19.28	0.085	19.36	0.086	18.93	0.078
5	16QAM	1	24	18.87	0.077	18.93	0.078	19.06	0.081
5	16QAM	12	0	18.15	0.065	18.21	0.066	18.14	0.065
5	16QAM	12	7	18.16	0.065	18.20	0.066	18.10	0.065
5	16QAM	12	13	18.20	0.066	18.29	0.067	18.31	0.068
5	16QAM	25	0	19.12	0.082	19.35	0.086	19.25	0.084
5	64QAM	1	0	19.06	0.081	19.26	0.084	19.12	0.082
5	64QAM	1	12	19.03	0.080	19.32	0.086	18.82	0.076
5	64QAM	1	24	18.09	0.064	17.97	0.063	18.23	0.067
5	64QAM	12	0	18.15	0.065	18.21	0.066	18.33	0.068
5	64QAM	12	7	18.08	0.064	18.12	0.065	18.24	0.067
5	64QAM	12	13	20.31	0.107	18.29	0.067	18.21	0.066
5	64QAM	25	0	20.34	0.108	18.39	0.069	18.15	0.065



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	19.88	0.097	20.15	0.104	20.25	0.106
3	QPSK	1	8	20.05	0.101	19.92	0.098	19.93	0.098
3	QPSK	1	14	19.77	0.095	20.26	0.106	19.87	0.097
3	QPSK	8	0	19.16	0.082	19.18	0.083	19.16	0.082
3	QPSK	8	4	19.16	0.082	19.22	0.084	19.15	0.082
3	QPSK	8	7	19.18	0.083	19.19	0.083	19.07	0.081
3	QPSK	15	0	19.12	0.082	19.14	0.082	19.12	0.082
3	16QAM	1	0	19.34	0.086	19.20	0.083	19.24	0.084
3	16QAM	1	8	19.40	0.087	19.50	0.089	19.20	0.083
3	16QAM	1	14	19.12	0.082	19.52	0.090	19.20	0.083
3	16QAM	8	0	18.33	0.068	18.40	0.069	18.34	0.068
3	16QAM	8	4	18.33	0.068	18.41	0.069	18.23	0.067
3	16QAM	8	7	18.25	0.067	18.38	0.069	18.29	0.067
3	16QAM	15	0	18.20	0.066	18.26	0.067	18.44	0.070
3	64QAM	1	0	19.15	0.082	19.25	0.084	19.20	0.083
3	64QAM	1	8	19.08	0.081	18.94	0.078	19.04	0.080
3	64QAM	1	14	19.15	0.082	19.24	0.084	19.06	0.081
3	64QAM	8	0	18.08	0.064	18.18	0.066	18.29	0.067
3	64QAM	8	4	18.16	0.065	18.37	0.069	18.25	0.067
3	64QAM	8	7	18.10	0.065	18.39	0.069	18.04	0.064
3	64QAM	15	0	20.30	0.107	18.22	0.066	18.20	0.066



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	20.17	0.104	19.98	0.100	20.03	0.101
1.4	QPSK	1	3	20.01	0.100	20.06	0.101	19.77	0.095
1.4	QPSK	1	5	20.03	0.101	20.12	0.103	19.74	0.094
1.4	QPSK	3	0	20.09	0.102	20.11	0.103	20.03	0.101
1.4	QPSK	3	1	20.02	0.100	20.15	0.104	20.06	0.101
1.4	QPSK	3	3	20.19	0.104	20.21	0.105	19.97	0.099
1.4	QPSK	6	0	19.11	0.081	19.25	0.084	19.10	0.081
1.4	16QAM	1	0	19.50	0.089	19.45	0.088	19.04	0.080
1.4	16QAM	1	3	19.45	0.088	19.26	0.084	19.43	0.088
1.4	16QAM	1	5	19.47	0.089	19.29	0.085	19.22	0.084
1.4	16QAM	3	0	19.29	0.085	19.37	0.086	19.07	0.081
1.4	16QAM	3	1	19.34	0.086	19.38	0.087	19.09	0.081
1.4	16QAM	3	3	19.35	0.086	19.33	0.086	18.99	0.079
1.4	16QAM	6	0	17.78	0.060	18.08	0.064	18.02	0.063
1.4	64QAM	1	0	19.06	0.081	19.03	0.080	19.21	0.083
1.4	64QAM	1	3	19.45	0.088	19.38	0.087	19.49	0.089
1.4	64QAM	1	5	19.08	0.081	19.40	0.087	19.12	0.082
1.4	64QAM	3	0	19.44	0.088	19.37	0.086	19.14	0.082
1.4	64QAM	3	1	19.62	0.092	19.43	0.088	19.37	0.086
1.4	64QAM	3	3	19.39	0.087	19.17	0.083	19.34	0.086
1.4	64QAM	6	0	20.36	0.109	18.24	0.067	18.12	0.065



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	23.08	0.203	23.44	0.221	23.29	0.213
20	QPSK	1	49	23.56	0.227	23.26	0.212	23.51	0.224
20	QPSK	1	99	23.13	0.206	23.14	0.206	23.06	0.202
20	QPSK	50	0	22.09	0.162	22.29	0.169	22.32	0.171
20	QPSK	50	24	22.15	0.164	22.02	0.159	22.25	0.168
20	QPSK	50	50	22.15	0.164	22.14	0.164	22.21	0.166
20	QPSK	100	0	22.21	0.166	22.10	0.162	22.37	0.173
20	16QAM	1	0	22.02	0.159	22.28	0.169	22.08	0.161
20	16QAM	1	49	22.23	0.167	22.17	0.165	22.32	0.171
20	16QAM	1	99	22.48	0.177	22.29	0.169	22.38	0.173
20	16QAM	50	0	21.31	0.135	21.16	0.131	21.32	0.136
20	16QAM	50	24	21.22	0.132	20.97	0.125	21.35	0.136
20	16QAM	50	50	21.12	0.129	21.10	0.129	21.25	0.133
20	16QAM	100	0	21.18	0.131	21.11	0.129	21.41	0.138
20	64QAM	1	0	22.13	0.163	22.39	0.173	22.20	0.166
20	64QAM	1	49	22.63	0.183	22.19	0.166	22.23	0.167
20	64QAM	1	99	22.13	0.163	22.15	0.164	22.19	0.166
20	64QAM	50	0	21.36	0.137	21.16	0.131	21.29	0.135
20	64QAM	50	24	21.22	0.132	21.01	0.126	21.37	0.137
20	64QAM	50	50	21.22	0.132	21.12	0.129	21.24	0.133
20	64QAM	100	0	21.18	0.131	21.19	0.132	21.38	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	22.92	0.196	23.35	0.216	23.21	0.209
15	QPSK	1	37	23.13	0.206	23.14	0.206	23.33	0.215
15	QPSK	1	74	23.37	0.217	23.08	0.203	23.04	0.201
15	QPSK	36	0	22.19	0.166	22.25	0.168	22.30	0.170
15	QPSK	36	20	21.98	0.158	22.10	0.162	22.25	0.168
15	QPSK	36	39	22.13	0.163	22.08	0.161	22.13	0.163
15	QPSK	75	0	22.21	0.166	22.13	0.163	22.21	0.166
15	16QAM	1	0	22.35	0.172	22.79	0.190	22.62	0.183
15	16QAM	1	37	22.33	0.171	22.39	0.173	22.34	0.171
15	16QAM	1	74	22.81	0.191	22.41	0.174	22.47	0.177
15	16QAM	36	0	21.29	0.135	21.27	0.134	21.40	0.138
15	16QAM	36	20	21.06	0.128	21.12	0.129	21.33	0.136
15	16QAM	36	39	21.12	0.129	21.17	0.131	21.23	0.133
15	16QAM	75	0	21.15	0.130	21.12	0.129	21.22	0.132
15	64QAM	1	0	22.36	0.172	22.64	0.184	22.32	0.171
15	64QAM	1	37	22.26	0.168	22.16	0.164	22.51	0.178
15	64QAM	1	74	21.54	0.143	21.32	0.136	21.31	0.135
15	64QAM	36	0	21.25	0.133	21.15	0.130	21.20	0.132
15	64QAM	36	20	21.18	0.131	21.18	0.131	21.26	0.134
15	64QAM	36	39	21.22	0.132	21.14	0.130	21.22	0.132
15	64QAM	75	0	21.18	0.131	21.19	0.132	21.38	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	22.87	0.194	23.33	0.215	23.22	0.210
10	QPSK	1	25	22.84	0.192	23.13	0.206	23.31	0.214
10	QPSK	1	49	23.25	0.211	22.98	0.199	22.84	0.192
10	QPSK	25	0	22.50	0.178	22.22	0.167	22.34	0.171
10	QPSK	25	12	22.23	0.167	22.09	0.162	22.13	0.163
10	QPSK	25	25	22.16	0.164	22.12	0.163	22.12	0.163
10	QPSK	50	0	22.18	0.165	22.07	0.161	22.14	0.164
10	16QAM	1	0	22.19	0.166	22.68	0.185	22.61	0.182
10	16QAM	1	25	22.21	0.166	22.24	0.167	22.32	0.171
10	16QAM	1	49	22.58	0.181	22.50	0.178	22.22	0.167
10	16QAM	25	0	21.47	0.140	21.27	0.134	21.38	0.137
10	16QAM	25	12	21.35	0.136	21.18	0.131	21.05	0.127
10	16QAM	25	25	21.36	0.137	21.01	0.126	21.12	0.129
10	16QAM	50	0	21.19	0.132	21.02	0.126	21.21	0.132
10	64QAM	1	0	22.16	0.164	22.48	0.177	22.32	0.171
10	64QAM	1	25	22.06	0.161	22.26	0.168	22.15	0.164
10	64QAM	1	49	22.37	0.173	22.01	0.159	22.29	0.169
10	64QAM	25	0	21.58	0.144	21.27	0.134	21.47	0.140
10	64QAM	25	12	21.31	0.135	21.15	0.130	21.28	0.134
10	64QAM	25	25	21.26	0.134	21.16	0.131	21.16	0.131
10	64QAM	50	0	21.26	0.134	21.16	0.131	21.20	0.132



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	22.95	0.197	23.30	0.214	23.36	0.217
5	QPSK	1	12	22.87	0.194	23.32	0.215	23.35	0.216
5	QPSK	1	24	22.86	0.193	22.98	0.199	23.06	0.202
5	QPSK	12	0	22.54	0.179	22.14	0.164	22.23	0.167
5	QPSK	12	7	22.22	0.167	22.06	0.161	22.07	0.161
5	QPSK	12	13	22.26	0.168	22.08	0.161	22.05	0.160
5	QPSK	25	0	22.16	0.164	22.07	0.161	22.09	0.162
5	16QAM	1	0	22.22	0.167	22.25	0.168	22.35	0.172
5	16QAM	1	12	21.87	0.154	21.86	0.153	22.12	0.163
5	16QAM	1	24	22.15	0.164	22.11	0.163	22.15	0.164
5	16QAM	12	0	21.31	0.135	21.23	0.133	21.19	0.132
5	16QAM	12	7	21.34	0.136	21.00	0.126	21.27	0.134
5	16QAM	12	13	21.26	0.134	21.04	0.127	21.14	0.130
5	16QAM	25	0	21.33	0.136	21.02	0.126	21.15	0.130
5	64QAM	1	0	22.48	0.177	22.44	0.175	22.44	0.175
5	64QAM	1	12	22.35	0.172	22.19	0.166	22.17	0.165
5	64QAM	1	24	22.14	0.164	22.02	0.159	21.99	0.158
5	64QAM	12	0	21.48	0.141	21.16	0.131	21.28	0.134
5	64QAM	12	7	21.19	0.132	21.06	0.128	21.11	0.129
5	64QAM	12	13	21.24	0.133	21.05	0.127	21.01	0.126
5	64QAM	25	0	21.34	0.136	21.09	0.129	21.18	0.131



LTE Band 17				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23780		23790		23800	
Frequency (MHz)				709		710		711	
				dbm	W	dbm	W	dbm	W
10	QPSK	1	0	19.86	0.097	19.66	0.092	19.58	0.091
10	QPSK	1	25	19.87	0.097	19.80	0.095	19.96	0.099
10	QPSK	1	49	19.81	0.096	19.97	0.099	19.99	0.100
10	QPSK	25	0	18.62	0.073	18.57	0.072	18.58	0.072
10	QPSK	25	12	18.69	0.074	18.69	0.074	18.75	0.075
10	QPSK	25	25	18.70	0.074	18.88	0.077	18.82	0.076
10	QPSK	50	0	18.75	0.075	18.75	0.075	18.64	0.073
10	16QAM	1	0	18.82	0.076	18.94	0.078	19.09	0.081
10	16QAM	1	25	19.26	0.084	19.00	0.079	19.20	0.083
10	16QAM	1	49	19.31	0.085	19.03	0.080	18.85	0.077
10	16QAM	25	0	17.66	0.058	17.66	0.058	17.72	0.059
10	16QAM	25	12	17.76	0.060	17.71	0.059	17.88	0.061
10	16QAM	25	25	17.56	0.057	17.98	0.063	17.96	0.063
10	16QAM	50	0	17.74	0.059	17.81	0.060	17.68	0.059
10	64QAM	1	0	18.98	0.079	18.86	0.077	18.92	0.078
10	64QAM	1	25	18.85	0.077	19.07	0.081	19.17	0.083
10	64QAM	1	49	19.21	0.083	19.27	0.085	18.99	0.079
10	64QAM	25	0	17.63	0.058	17.74	0.059	17.70	0.059
10	64QAM	25	12	17.74	0.059	17.80	0.060	17.68	0.059
10	64QAM	25	25	17.66	0.058	17.88	0.061	17.93	0.062
10	64QAM	50	0	19.90	0.098	17.77	0.060	17.80	0.060



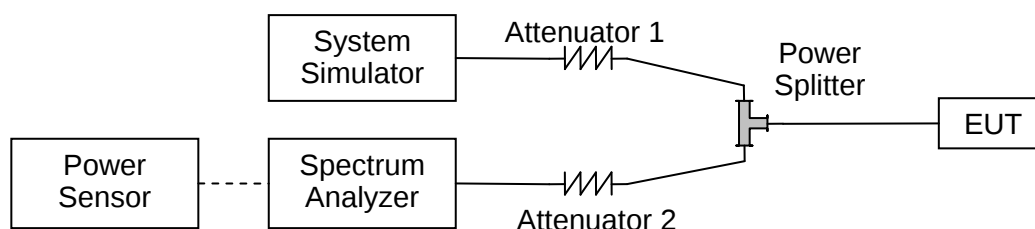
LTE Band 17				Measured ERP					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23035		23790		23155	
Frequency (MHz)				706.5		710		713.5	
				dbm	W	dbm	W	dbm	W
5	QPSK	1	0	19.77	0.095	19.54	0.090	19.57	0.091
5	QPSK	1	12	19.71	0.094	19.70	0.093	19.91	0.098
5	QPSK	1	24	19.55	0.090	19.81	0.096	19.88	0.097
5	QPSK	12	0	18.58	0.072	18.48	0.070	18.81	0.076
5	QPSK	12	7	18.46	0.070	18.66	0.073	18.71	0.074
5	QPSK	12	13	18.45	0.070	18.59	0.072	18.72	0.074
5	QPSK	25	0	18.48	0.070	18.71	0.074	18.80	0.076
5	16QAM	1	0	19.01	0.080	18.79	0.076	18.97	0.079
5	16QAM	1	12	19.08	0.081	18.92	0.078	19.25	0.084
5	16QAM	1	24	19.28	0.085	19.27	0.085	19.22	0.084
5	16QAM	12	0	17.55	0.057	17.56	0.057	17.91	0.062
5	16QAM	12	7	17.63	0.058	17.72	0.059	17.74	0.059
5	16QAM	12	13	17.46	0.056	17.82	0.061	17.79	0.060
5	16QAM	25	0	17.51	0.056	17.85	0.061	17.74	0.059
5	64QAM	1	0	18.94	0.078	18.95	0.079	18.78	0.076
5	64QAM	1	12	18.69	0.074	18.58	0.072	19.05	0.080
5	64QAM	1	24	17.50	0.056	17.40	0.055	17.45	0.056
5	64QAM	12	0	17.33	0.054	17.59	0.057	17.58	0.057
5	64QAM	12	7	17.37	0.055	17.47	0.056	17.63	0.058
5	64QAM	12	13	17.43	0.055	17.88	0.061	17.81	0.060
5	64QAM	25	0	19.90	0.098	17.77	0.060	17.80	0.060

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	1.10	1.30
	Low	16QAM	1.10	1.31
	Low	64QAM	1.10	1.31
	Mid	QPSK	1.10	1.29
	Mid	16QAM	1.10	1.31
	Mid	64QAM	1.10	1.31
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.29
	High	64QAM	1.10	1.31
3	Low	QPSK	2.70	3.00
	Low	16QAM	2.71	2.99
	Low	64QAM	2.71	3.00
	Mid	QPSK	2.70	3.00
	Mid	16QAM	2.71	3.00
	Mid	64QAM	2.71	3.00
	High	QPSK	2.71	3.00
	High	16QAM	2.70	2.98
	High	64QAM	2.71	3.01
5	Low	QPSK	4.51	5.09
	Low	16QAM	4.52	5.04
	Low	64QAM	4.51	5.04
	Mid	QPSK	4.52	5.05
	Mid	16QAM	4.51	5.02
	Mid	64QAM	4.51	5.02
	High	QPSK	4.52	5.02
	High	16QAM	4.51	5.06
	High	64QAM	4.51	5.02



10	Low	QPSK	9.01	9.87
	Low	16QAM	8.96	9.84
	Low	64QAM	8.98	9.88
	Mid	QPSK	9.00	9.88
	Mid	16QAM	8.97	9.86
	Mid	64QAM	8.98	9.76
	High	QPSK	9.00	9.88
	High	16QAM	8.98	9.84
	High	64QAM	9.00	9.91
15	Low	QPSK	13.53	14.78
	Low	16QAM	13.49	14.86
	Low	64QAM	13.49	14.80
	Mid	QPSK	13.51	14.70
	Mid	16QAM	13.47	14.71
	Mid	64QAM	13.47	14.64
	High	QPSK	13.49	14.65
	High	16QAM	13.52	14.89
	High	64QAM	13.52	14.85
20	Low	QPSK	17.98	19.52
	Low	16QAM	17.97	19.53
	Low	64QAM	17.98	19.57
	Mid	QPSK	17.92	19.45
	Mid	16QAM	17.91	19.45
	Mid	64QAM	17.94	19.47
	High	QPSK	18.03	19.50
	High	16QAM	18.04	19.60
	High	64QAM	18.01	19.55



LTE Band 4				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.29
	Low	16QAM	1.10	1.32
	Low	64QAM	1.10	1.31
	Mid	QPSK	1.10	1.29
	Mid	16QAM	1.09	1.28
	Mid	64QAM	1.10	1.30
	High	QPSK	1.10	1.28
	High	16QAM	1.10	1.26
	High	64QAM	1.10	1.30
3	Low	QPSK	2.71	3.00
	Low	16QAM	2.70	3.01
	Low	64QAM	2.71	3.01
	Mid	QPSK	2.70	3.00
	Mid	16QAM	2.71	3.01
	Mid	64QAM	2.72	3.01
	High	QPSK	2.71	2.99
	High	16QAM	2.70	3.01
	High	64QAM	2.71	2.97
5	Low	QPSK	4.52	5.03
	Low	16QAM	4.52	5.07
	Low	64QAM	4.52	5.02
	Mid	QPSK	4.51	5.03
	Mid	16QAM	4.51	5.03
	Mid	64QAM	4.51	4.98
	High	QPSK	4.51	5.07
	High	16QAM	4.50	5.05
	High	64QAM	4.50	5.00



10	Low	QPSK	9.00	9.79
	Low	16QAM	8.98	9.80
	Low	64QAM	9.00	9.87
	Mid	QPSK	8.99	9.87
	Mid	16QAM	8.97	9.82
	Mid	64QAM	8.99	9.84
	High	QPSK	8.98	9.83
	High	16QAM	8.97	9.81
	High	64QAM	8.98	9.83
15	Low	QPSK	13.50	14.66
	Low	16QAM	13.50	16.19
	Low	64QAM	13.54	16.20
	Mid	QPSK	13.51	14.73
	Mid	16QAM	13.47	14.73
	Mid	64QAM	13.47	14.78
	High	QPSK	13.52	14.74
	High	16QAM	13.49	14.76
	High	64QAM	13.49	14.87
20	Low	QPSK	17.97	19.55
	Low	16QAM	18.01	19.37
	Low	64QAM	17.96	19.43
	Mid	QPSK	17.92	19.55
	Mid	16QAM	17.97	19.49
	Mid	64QAM	17.96	19.39
	High	QPSK	17.99	19.53
	High	16QAM	18.02	19.51
	High	64QAM	18.01	19.53



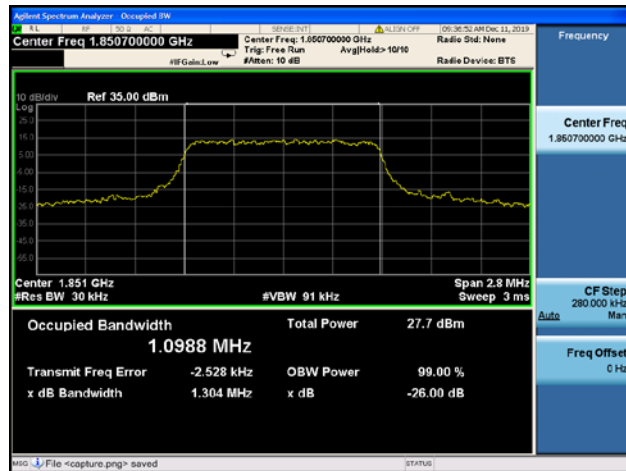
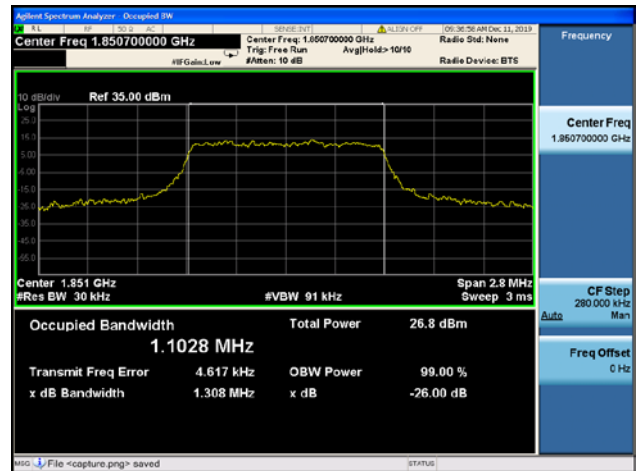
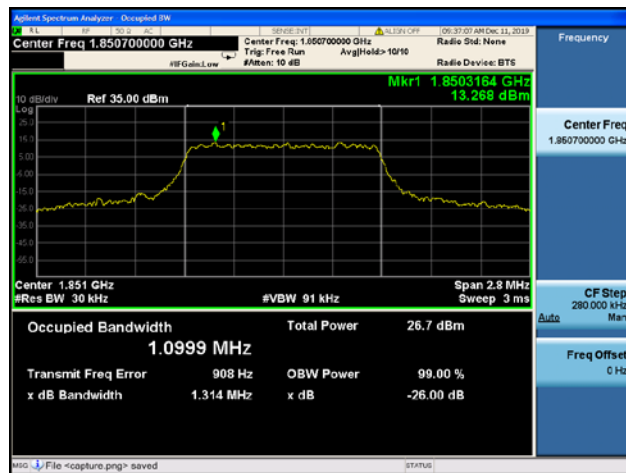
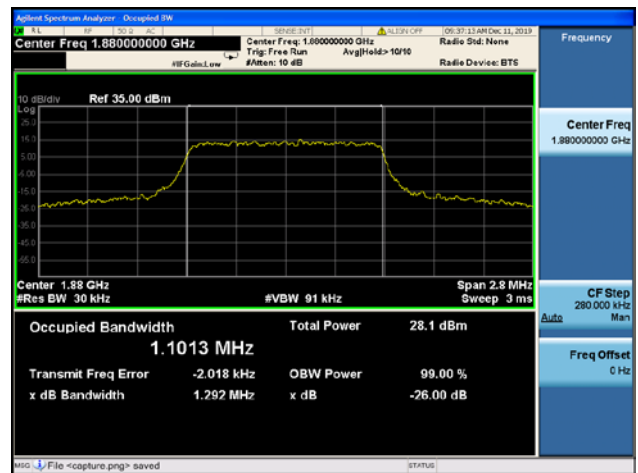
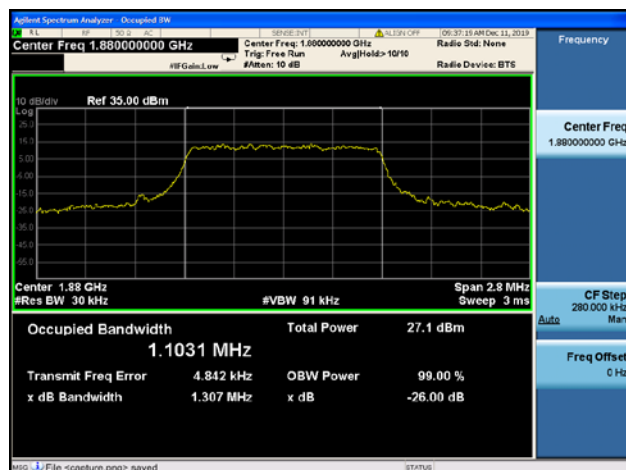
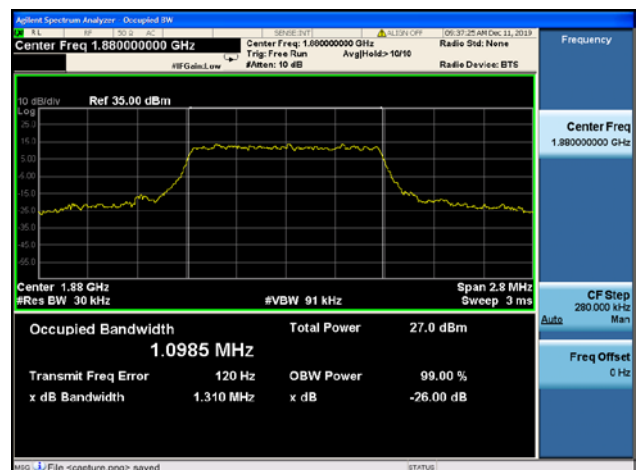
LTE Band 5				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
1.4	Low	QPSK	1.10	1.27
	Low	16QAM	1.10	1.31
	Low	64QAM	1.11	1.32
	Mid	QPSK	1.10	1.28
	Mid	16QAM	1.10	1.30
	Mid	64QAM	1.10	1.31
	High	QPSK	1.10	1.30
	High	16QAM	1.11	1.30
	High	64QAM	1.10	1.30
3	Low	QPSK	2.70	3.03
	Low	16QAM	2.68	2.96
	Low	64QAM	2.72	3.02
	Mid	QPSK	2.70	2.97
	Mid	16QAM	2.70	3.00
	Mid	64QAM	2.71	2.99
	High	QPSK	2.70	3.02
	High	16QAM	2.70	2.99
	High	64QAM	2.71	3.00
5	Low	QPSK	4.53	5.10
	Low	16QAM	4.52	5.04
	Low	64QAM	4.50	4.99
	Mid	QPSK	4.51	5.04
	Mid	16QAM	4.51	5.05
	Mid	64QAM	4.51	4.98
	High	QPSK	4.52	5.10
	High	16QAM	4.52	5.03
	High	64QAM	4.51	5.02
10	Low	QPSK	9.00	9.97
	Low	16QAM	8.97	9.86
	Low	64QAM	8.99	9.91
	Mid	QPSK	8.97	9.82
	Mid	16QAM	8.97	9.82
	Mid	64QAM	8.98	9.90
	High	QPSK	9.00	9.89
	High	16QAM	8.97	9.86
	High	64QAM	8.98	9.94

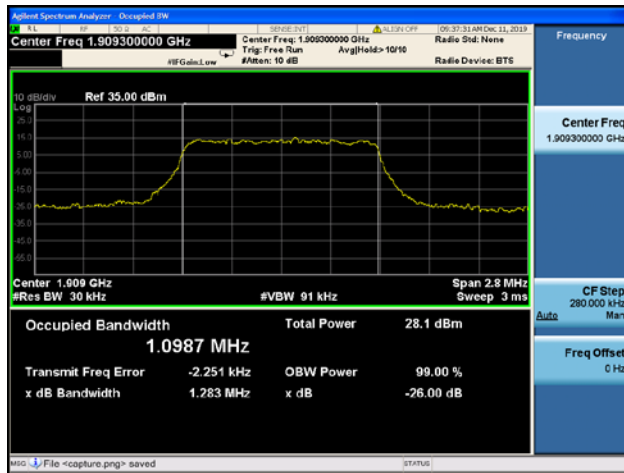
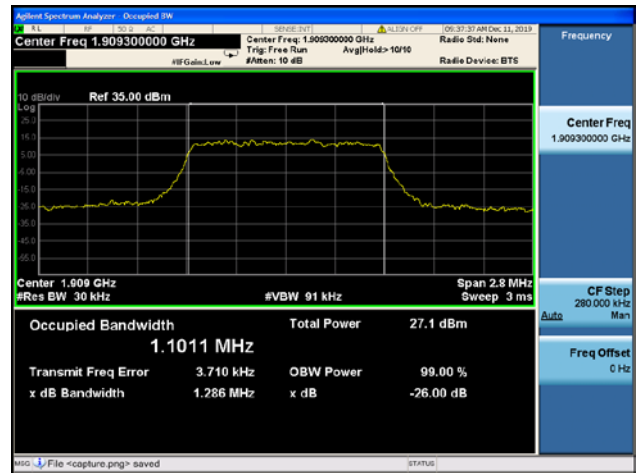
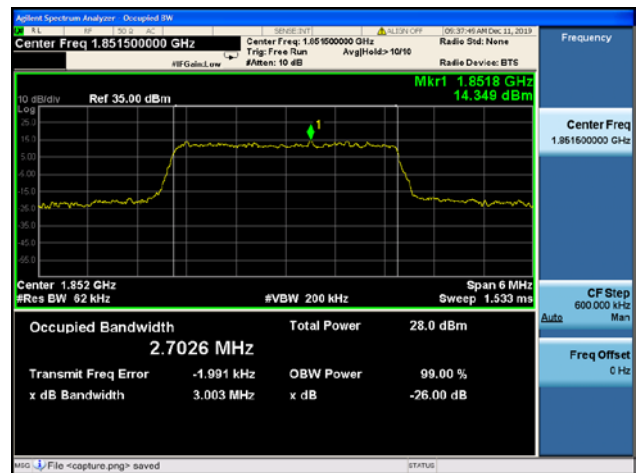
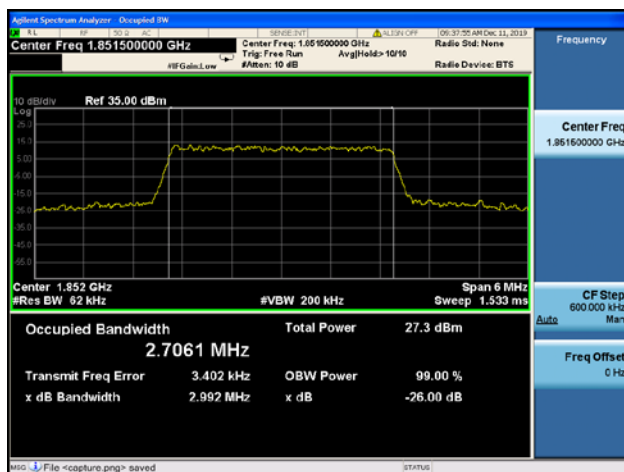
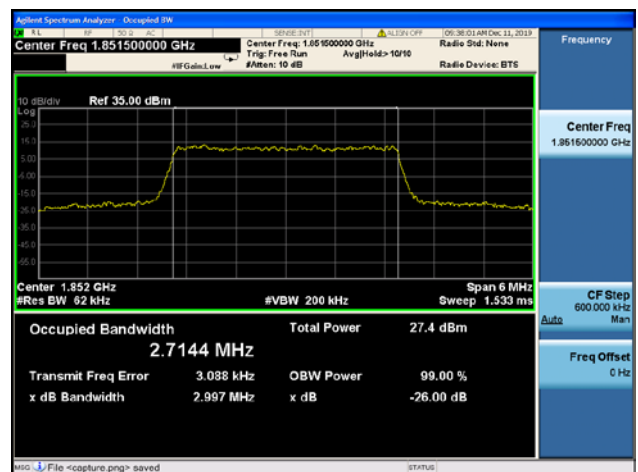


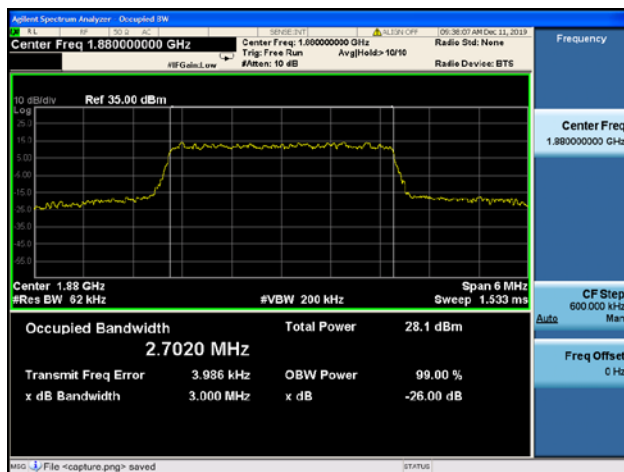
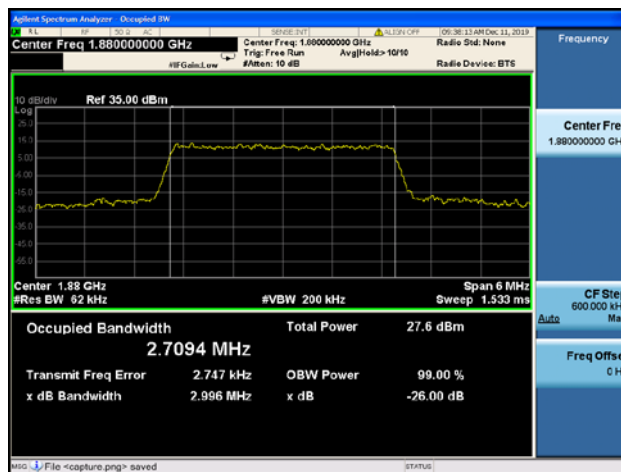
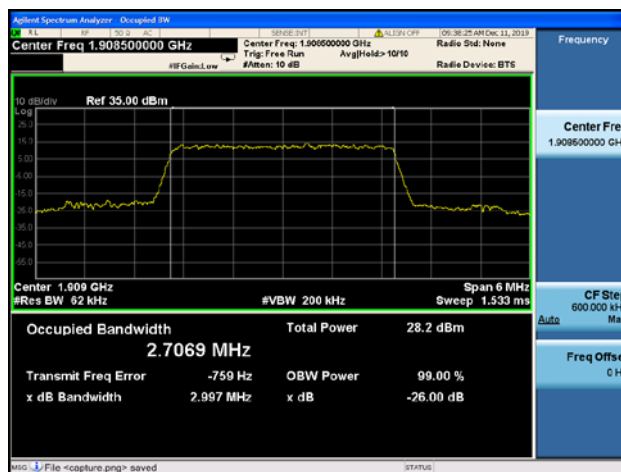
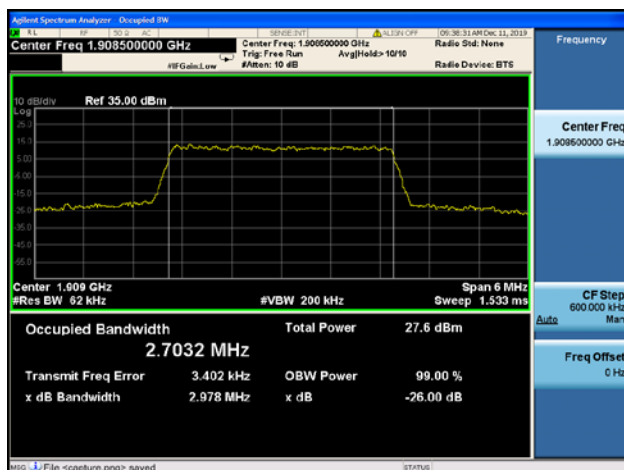
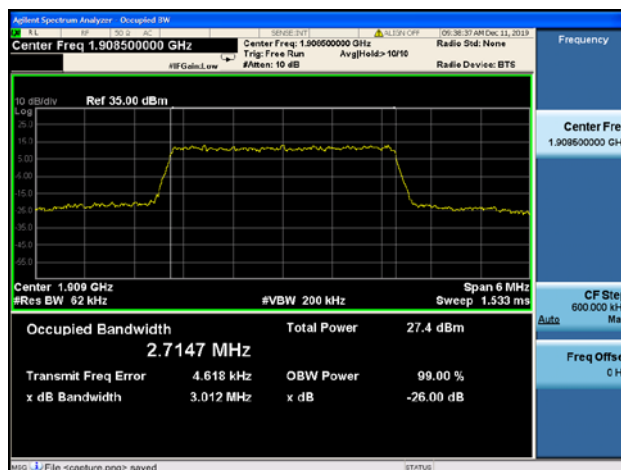
LTE Band 7				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.60	8.23
	Low	16QAM	4.57	9.60
	Low	64QAM	4.56	8.40
	Mid	QPSK	4.54	6.24
	Mid	16QAM	4.52	5.05
	Mid	64QAM	4.53	4.99
	High	QPSK	4.53	5.06
	High	16QAM	4.51	5.04
	High	64QAM	4.52	5.01
10	Low	QPSK	9.08	14.40
	Low	16QAM	9.03	11.94
	Low	64QAM	9.06	14.69
	Mid	QPSK	9.03	10.43
	Mid	16QAM	9.01	10.61
	Mid	64QAM	9.03	10.29
	High	QPSK	8.98	9.77
	High	16QAM	8.96	9.85
	High	64QAM	8.96	9.84
15	Low	QPSK	13.55	17.62
	Low	16QAM	13.56	15.01
	Low	64QAM	13.56	14.78
	Mid	QPSK	13.57	15.50
	Mid	16QAM	13.53	14.76
	Mid	64QAM	13.52	14.75
	High	QPSK	13.46	14.75
	High	16QAM	13.43	14.65
	High	64QAM	13.43	14.71
20	Low	QPSK	18.05	19.55
	Low	16QAM	18.03	19.60
	Low	64QAM	18.04	19.66
	Mid	QPSK	18.02	19.67
	Mid	16QAM	17.98	19.58
	Mid	64QAM	18.01	19.55
	High	QPSK	17.90	19.41
	High	16QAM	17.93	19.38
	High	64QAM	17.91	19.47

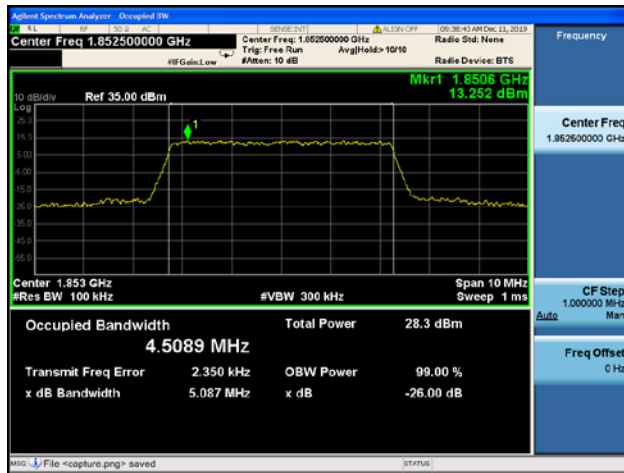
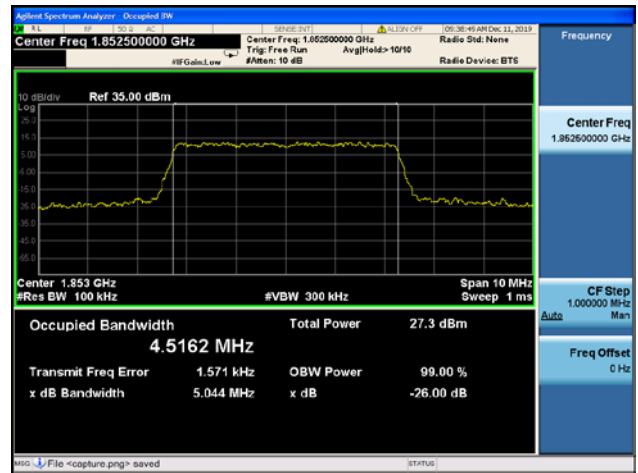
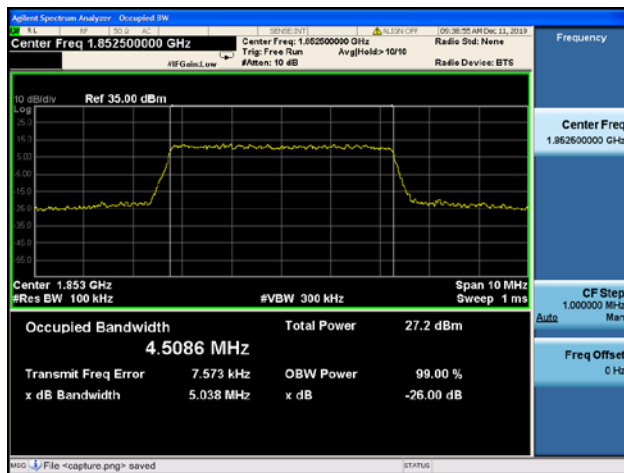
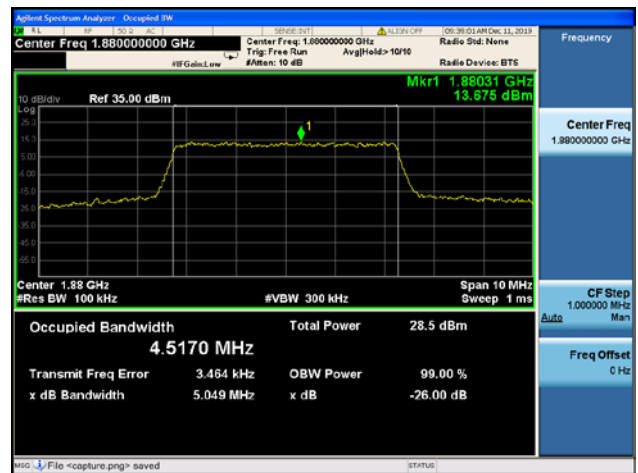
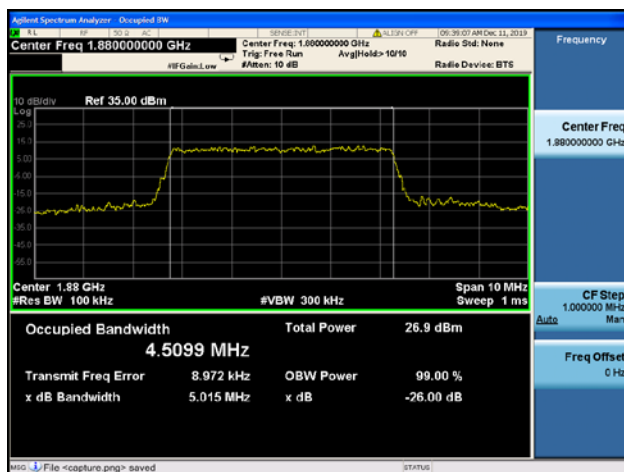
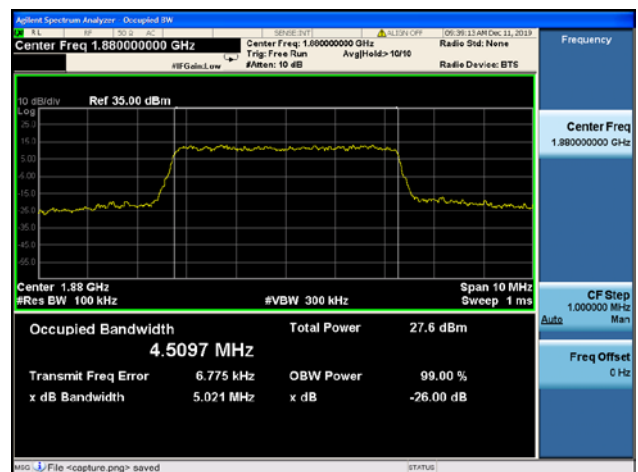


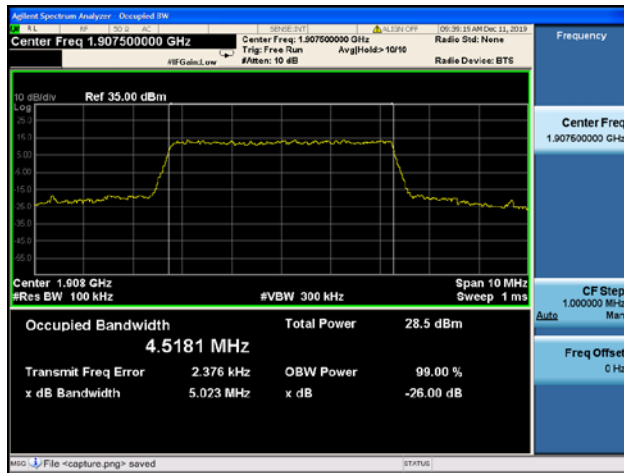
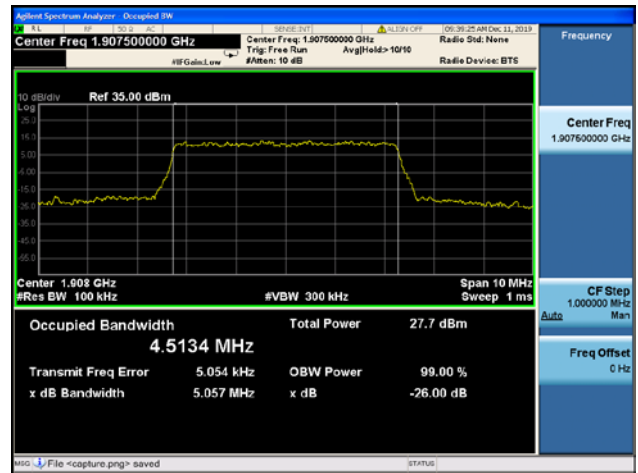
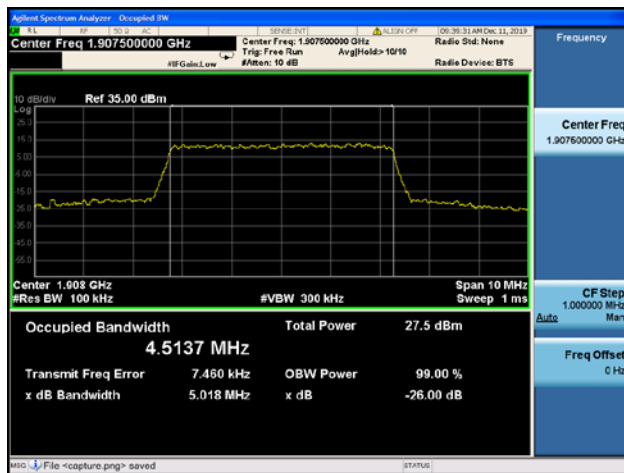
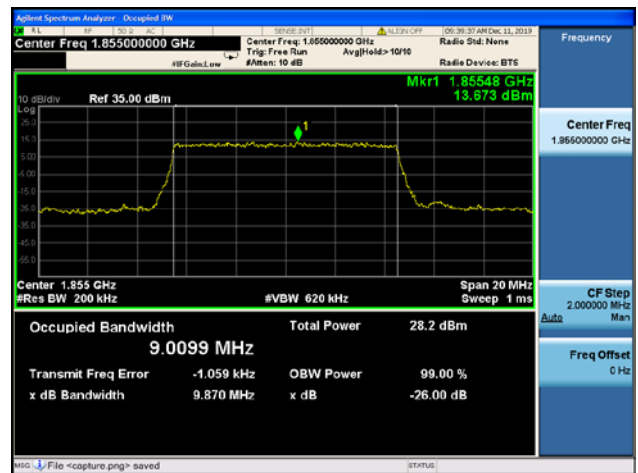
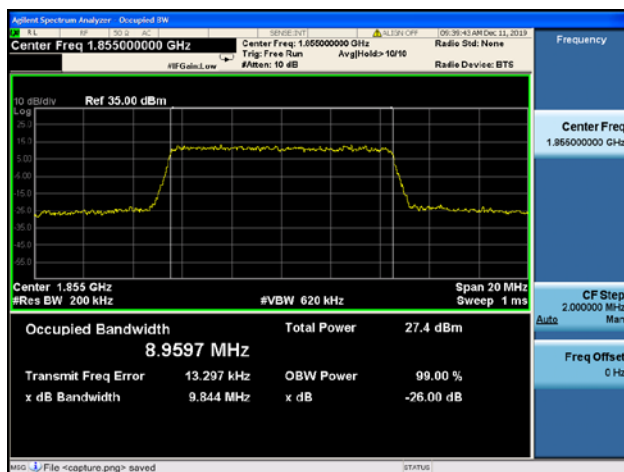
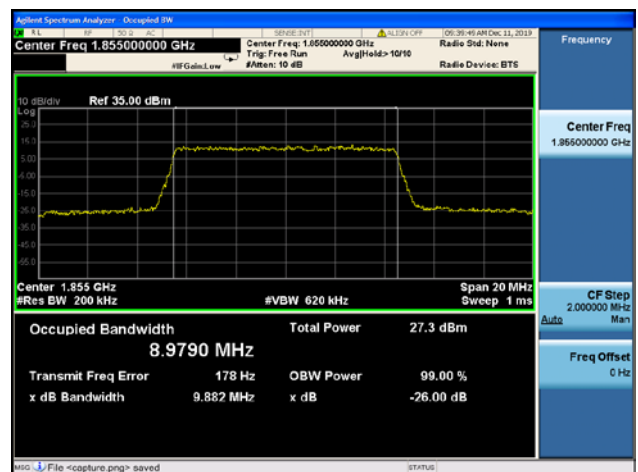
LTE Band 17				
BW(MHz)	ChannelLevel	Modulation	99% BW(MHz)	26dB BW(MHz)
5	Low	QPSK	4.52	5.02
	Low	16QAM	4.52	5.03
	Low	64QAM	4.51	4.98
	Mid	QPSK	4.52	5.04
	Mid	16QAM	4.52	5.05
	Mid	64QAM	4.51	5.05
	High	QPSK	4.51	5.02
	High	16QAM	4.51	5.04
	High	64QAM	4.50	5.00
10	Low	QPSK	9.04	9.99
	Low	16QAM	9.01	9.90
	Low	64QAM	9.03	9.98
	Mid	QPSK	9.02	9.88
	Mid	16QAM	9.01	9.82
	Mid	64QAM	9.03	9.87
	High	QPSK	9.03	9.86
	High	16QAM	8.99	9.82
	High	64QAM	9.01	9.93

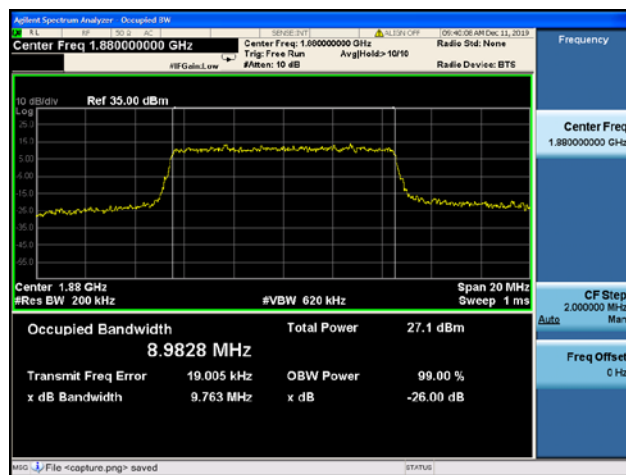
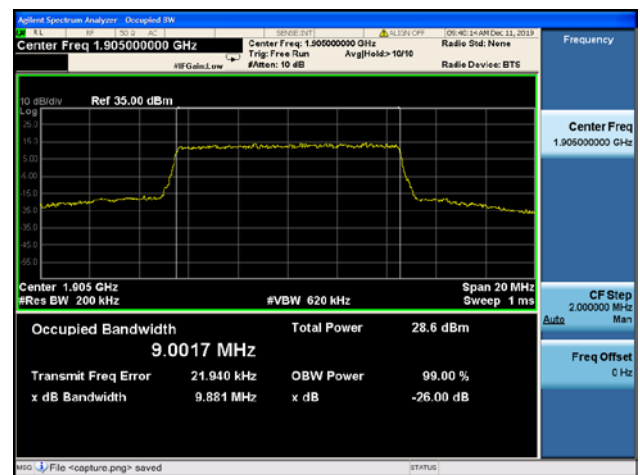
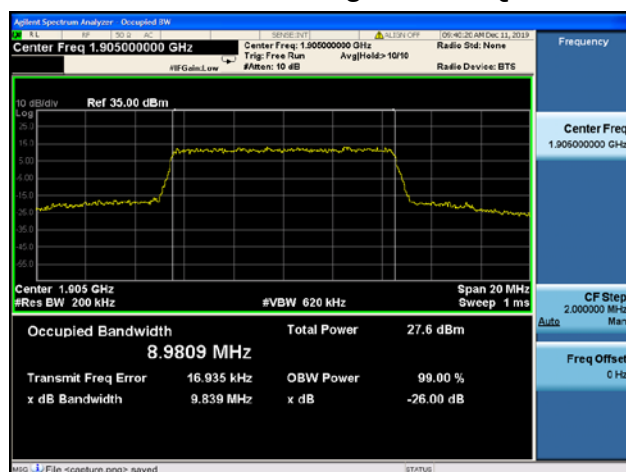
**Band2 / 1.4MHz / Low CH / QPSK****Band2 / 1.4MHz / Low CH / 16QAM****Band2 / 1.4MHz / Low CH / 64QAM****Band2 / 1.4MHz / Mid CH / QPSK****Band2 / 1.4MHz / Mid CH / 16QAM****Band2 / 1.4MHz / Mid CH / 64QAM**

**Band2 / 1.4MHz / High CH / QPSK****Band2 / 1.4MHz / High CH / 16QAM****Band2 / 1.4MHz / High CH / 64QAM****Band2 / 3MHz / Low CH / QPSK****Band2 / 3MHz / Low CH / 16QAM****Band2 / 3MHz / Low CH / 64QAM**

**Band2 / 3MHz / Mid CH / QPSK****Band2 / 3MHz / Mid CH / 16QAM****Band2 / 3MHz / Mid CH / 64QAM****Band2 / 3MHz / High CH / QPSK****Band2 / 3MHz / High CH / 16QAM****Band2 / 3MHz / High CH / 64QAM**

**Band2 / 5MHz / Low CH / QPSK****Band2 / 5MHz / Low CH / 16QAM****Band2 / 5MHz / Low CH / 64QAM****Band2 / 5MHz / Mid CH / QPSK****Band2 / 5MHz / Mid CH / 16QAM****Band2 / 5MHz / Mid CH / 64QAM**

**Band2 / 5MHz / High CH / QPSK****Band2 / 5MHz / High CH / 16QAM****Band2 / 5MHz / High CH / 64QAM****Band2 / 10MHz / Low CH / QPSK****Band2 / 10MHz / Low CH / 16QAM****Band2 / 10MHz / Low CH / 64QAM**

**Band2 / 10MHz / Mid CH / QPSK****Band2 / 10MHz / Mid CH / 16QAM****Band2 / 10MHz / Mid CH / 64QAM****Band2 / 10MHz / High CH / QPSK****Band2 / 10MHz / High CH / 16QAM****Band2 / 10MHz / High CH / 64QAM**