



TEST REPORT

MANUFACTURER : Bullitt Group

PRODUCT NAME : 4G Mobile Phone

MODEL NAME : S62

BRAND NAME : CAT

FCC ID : ZL5S62

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart F&H&L&M
47 CFR Part 90, Subpart S

RECEIPT DATE : 2020-10-10

TEST DATE : 2020-11-02 to 2021-01-18

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Change History		
Version	Date	Reason for change
1.0	2021-02-19	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Bullitt Group
Applicant Address:	One Valpy, Valpy Street, Reading, Berkshire, RG1 1AR, United Kingdom
Manufacturer:	Bullitt Group
Manufacturer Address:	One Valpy, Valpy Street, Reading, Berkshire, RG1 1AR, United Kingdom

1.2. Equipment Under Test (EUT) Description

Product Name:	4G Mobile Phone	
Serial No:	(N/A, marked #1 by test site)	
Hardware Version:	Q190_V1	
Software Version:	LTE_S02111.10_N_S62_0	
Modulation Type:	QPSK 16QAM 64QAM	
Operation Band:	Band 2 /4 /5/7 /12 /13 /14/17/25 /26 /38/40/41 /66 /71	
Frequency Range:	LTE Band 2	Tx: 1850.7MHz - 1909.3MHz
		Rx: 1930.7MHz - 1989.3MHz
	LTE Band 4	Tx: 1710.7MHz - 1754.3MHz
		Rx: 2110.7MHz - 2154.3MHz
	LTE Band 5	Tx: 824.7MHz - 848.3MHz
		Rx: 869.7MHz - 893.3MHz
	LTE Band 7	Tx: 2502.5MHz – 2567.5MHz
		Rx: 2622.5MHz – 2687.5MHz
	LTE Band 12	Tx: 699.7MHz - 715.3MHz
		Rx: 729.7MHz - 745.3MHz
	LTE Band 13	Tx: 779.5MHz - 784.5MHz
		Rx: 748.5MHz - 753.5MHz



	LTE Band 14	Tx: 790.5MHz – 795.5MHz
		Rx: 760.5MHz - 765.5MHz
	LTE Band 17	Tx: 706.5MHz – 713.5MHz
		Rx: 736.5MHz - 743.5MHz
	LTE Band 25	Tx:1850.7MHz - 1914.3MHz
		Rx:1930.7MHz - 1994.3MHz
	LTE Band 26	Tx:814.7MHz-848.3MHz
		Rx:859.7MHz-893.3MHz
	LTE Band 38	Tx:2572.5MHz-2617.5MHz
		Rx:2572.5MHz-2617.5MHz
	LTE Band 40	Tx:2302.5MHz-2397.5MHz
		Rx:2302.5MHz-2397.5MHz
	LTE Band 41	Tx:2498.5MHz - 2687.5MHz
		Rx:2498.5MHz - 2687.5MHz
	LTE Band 66	Tx: 1710.7MHz - 1779.3MHz
		Rx: 2110.7MHz - 2199.3MHz
	LTE Band 71	Tx: 665.5MHz - 695.5MHz
		Rx: 619.5MHz - 645.5MHz
Antenna Type:	Fixed Internal	
Antenna Gain:	LTE Band2:0.21dBi; LTE Band4:-0.16dBi LTE Band5:-2.16dBi LTE Band7:0.85dBi LTE Band12:-2.89dBi LTE Band13:-2.35dBi LTE Band14:-2.18dBi LTE Band17:-2.89dBi LTE Band25:0.21dBi LTE Band26:-2.17 dBi LTE Band38:0.89dBi LTE Band40:0.58dBi LTE Band41:1.03dBi LTE Band66:-0.16dBi LTE Band71:-2.89dBi	



Accessory Information::	Battery	
	Manufacturer:	Hunan Gaoyuan Battery Co., Ltd.
	Brand Name:	Gaoyuan Battery
	Model No.:	XQ6602G
	Capacity:	4000mAh
	Rated Voltage:	3.80V
	Charge Limit:	4.35V
	AC Adapter	
	Manufacturer:	Jiangxi Jian Aohai Technology Co.,Ltd.
	Brand Name:	AOHAI
	Model No.:	A138-120150C-US1
	Rated Input:	AC
	Rated Output:	DC

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

1.3. Test Channel

Band	Bandwidth (MHz)	Low Channel		Middle Channel		High Channel	
		Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2	1.4	18607	1850.7	18900	1880	19193	1909.3
	3	18615	1851.5	18900	1880	19185	1908.5
	5	18625	1852.5	18900	1880	19175	1907.5
	10	18650	1855	18900	1880	19150	1905
	15	18675	1857.5	18900	1880	19125	1902.5
	20	18700	1860	18900	1880	19100	1900
4	1.4	19957	1710.7	20175	1732.5	20393	1754.3
	3	19965	1711.5	20175	1732.5	20385	1753.5
	5	19975	1712.5	20175	1732.5	20375	1752.5
	10	20000	1715	20175	1732.5	20350	1750
	15	20025	1717.5	20175	1732.5	20325	1747.5
	20	20050	1720	20175	1732.5	20300	1745
5	1.4	20407	824.7	20525	836.5	20643	848.3



	3	20415	825.5	20525	836.5	20635	847.5
	5	20425	826.5	20525	836.5	20625	846.5
	10	20450	829	20525	836.5	20600	844
7	5	20775	2502.5	21100	2535	21425	2567.5
	10	20800	2505	21100	2535	21400	2565
	15	20825	2507.5	21100	2535	21375	2562.5
	20	20850	2510	21100	2535	21350	2560
12	1.4	23017	699.7	23095	707.5	23173	715.3
	3	23025	700.5	23095	707.5	23165	714.5
	5	23035	701.5	23095	707.5	23155	713.5
	10	23060	704	23095	707.5	23130	711
13	5	23205	779.5	23230	782	23255	784.5
	10	/	/	23230	782	/	/
14	5	23305	790.5	23330	793	23355	795.5
	10	/	/	23330	793	/	/
17	5	23755	706.5	23790	710	23825	713.5
	10	23780	709	23790	710	23800	711
25	1.4	26047	1850.7	26365	1882.5	26683	1914.3
	3	26055	1851.5	26365	1882.5	26675	1913.5
	5	26065	1852.5	26365	1882.5	26665	1912.5
	10	26090	1855	26365	1882.5	26640	1910
	15	26115	1857.5	26365	1882.5	26615	1907.5
	20	26140	1860	26365	1882.5	26590	1905
26	1.4	26697	814.7	26865	836.5	27033	848.3
	3	26705	815.5	26865	836.5	27025	847.5
	5	26715	816.5	26865	836.5	27015	846.5
	10	26740	819	26865	836.5	26990	844
	15	26765	821.5	26865	836.5	26965	841.5
38	5	37775	2572.2	38000	2595	38225	2617.5
	10	37800	2575	38000	2595	38200	2615
	15	37825	2577.5	38000	2595	38175	2612.5



	20	37850	2580	38000	2595	38150	2610
40	5	38675	2302.5	39150	2350	39625	2397.5
	10	38700	2305	39150	2350	39600	2395
	15	38725	2307.5	39150	2350	39575	2392.5
	20	38750	2310	39150	2350	39550	2390
41	5	39675	2498.5	40620	2593	41565	2687.5
	10	39700	2501	40620	2593	41540	2685
	15	39725	2503.5	40620	2593	41515	2682.5
	20	39750	2506	40620	2593	41490	2680
66	1.4	131979	1710.7	132322	1745	132665	1779.3
	3	131987	1711.5	132322	1745	132657	1778.5
	5	131997	1712.5	132322	1745	132647	1777.5
	10	132022	1715	132322	1745	132622	1775
	15	132047	1717.5	132322	1745	132597	1772.5
	20	132072	1720	132322	1745	132572	1770
71	5	133147	665.5	133297	680.5	133447	695.5
	10	133172	668	133297	680.5	133422	693
	15	133197	670.5	133297	680.5	133397	690.5
	20	133222	673	133322	683	133372	688

1.4. Emission Designator

LTE B2	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M08G7D	1M09W7D	1M09W7D
3	2M71G7D	2M71W7D	2M70W7D
5	4M51G7D	4M50W7D	4M52W7D
10	9M00G7D	8M98W7D	8M97W7D
15	13M4G7D	13M4W7D	13M4W7D
20	17M9G7D	18M0W7D	17M9W7D
LTE B4	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM



1.4	1M09G7D	1M09W7D	1M09W7D
3	2M71G7D	2M70W7D	2M71W7D
5	4M50G7D	4M51W7D	4M51W7D
10	9M00G7D	8M98W7D	8M97W7D
15	13M4G7D	13M4W7D	13M4W7D
20	17M9G7D	17M9W7D	17M9W7D
LTE B5	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M71G7D	2M70W7D	2M70W7D
5	4M49G7D	4M50W7D	4M50W7D
10	9M00G7D	8M98W7D	8M97W7D
LTE B7	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M50G7D	4M51W7D	4M50W7D
10	8M98G7D	8M99W7D	8M96W7D
15	13M4G7D	13M4W7D	13M4W7D
20	17M9G7D	17M9W7D	17M9W7D
LTE B12	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M71G7D	2M70W7D	2M71W7D
5	4M51G7D	4M50W7D	4M50W7D
10	8M99G7D	8M96W7D	8M97W7D
LTE B13	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M50G7D	4M51W7D	4M51W7D
10	9M00G7D	8M95W7D	8M96W7D
LTE B14	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M50G7D	4M51W7D	4M50W7D
10	8M99G7D	8M96W7D	8M96W7D
LTE B17	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M51G7D	4M50W7D	4M51W7D
10	8M98G7D	8M99W7D	9M01W7D
LTE B25	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM



1.4	1M09G7D	1M09W7D	1M09W7D
3	2M71G7D	2M70W7D	2M70W7D
5	4M50G7D	4M50W7D	4M51W7D
10	9M01G7D	8M98W7D	9M01W7D
15	13M4G7D	13M4W7D	13M4W7D
20	17M9G7D	17M9W7D	17M9W7D
LTE B26	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M71G7D	2M70W7D	2M70W7D
5	4M50G7D	4M50W7D	4M51W7D
10	8M99G7D	8M97W7D	8M97W7D
15	13M4G7D	13M4W7D	13M4W7D
LTE B38	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M51G7D	4M50W7D	4M50W7D
10	8M96G7D	8M98W7D	8M96W7D
15	13M5G7D	13M4W7D	13M4W7D
20	17M9G7D	17M9W7D	17M9W7D
LTE B40	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M51G7D	4M50W7D	4M51W7D
10	8M97G7D	8M98W7D	8M98W7D
15	13M4G7D	13M5W7D	13M4W7D
20	17M9G7D	17M9W7D	17M9W7D
LTE B41	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M51G7D	4M50W7D	4M51W7D
10	8M97G7D	8M98W7D	8M98W7D
15	13M4G7D	13M5W7D	13M4W7D
20	17M9G7D	17M9W7D	17M9W7D
LTE B66	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
1.4	1M09G7D	1M09W7D	1M09W7D
3	2M71G7D	2M70W7D	2M70W7D
5	4M52G7D	4M51W7D	4M52W7D
10	8M98G7D	8M99W7D	8M97W7D
15	13M4G7D	13M4W7D	13M4W7D



20	17M9G7D	17M9W7D	18M0W7D
LTE B71	Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM
5	4M52G7D	4M51W7D	4M51W7D
10	8M99G7D	9M01W7D	9M00W7D
15	13M5G7D	13M4W7D	13M5W7D
20	17M9G7D	17M9W7D	17M9W7D



1.5. Test Standards and Results

The objective of the report is to perform testing according to Part 2 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
5	47 CFR Part 90	Miscellaneous Wireless Communications Services

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

Section	Description	Test Date	Test Engineer	Result
2.1046,	Transmitter Conducted Output Power	Jul 16, 2021	Stefan Sun	PASS
2.1049,90.209	Occupied Bandwidth	Jan 13, 2021 Jan 15, 2021	Stefan Sun	PASS
2.1055, 22.355, 24.235, 27.54,90.213	Frequency Stability	Jan 13, 2021	Stefan Sun	PASS
22.913(d),24.232(d), 27.50(d)(5)	Peak to Average Radio	Jan 13, 2021 Jan 18, 2021	Stefan Sun	PASS
2.1051, 22.917(a), 24.238, 27.53(c), 27.53(g), 27.53 (h) 27.53(m),90.691	Conducted Spurious Emissions	Jan 14, 2021 Jan 18, 2021	Stefan Sun	PASS
2.1051, 22.917(a), 24.238, 27.53(c), 27.53(g), 27.53 (h) 27.53(m),90.691	Band Edge	Jan 14, 2021 Jan 18, 2021	Stefan Sun	PASS
22.913(a)(2), 24.232(c), 27.50(a)(3),27.50(b)(10),27. 50(c)(10),27.50(d)(4), 27.50(h)(2), 90.635(b)	Transmitter Radiated Power (EIPR/ERP)	Nov 02,2020 Dec 06,2020	Yaming Luo	PASS
2.1051, 22.917(a), 24.238, 27.53(c), 27.53(g), 27.53 (h) 27.53(m).90.691	Radiated Spurious Emissions	Nov 02,2020 Dec 06,2020	Yaming Luo	PASS



Note1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03r01 and ANSI/TIA-603-E-2016.

Note2: The path loss has been calibrated by the system.

1.6. Environmental Conditions

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

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

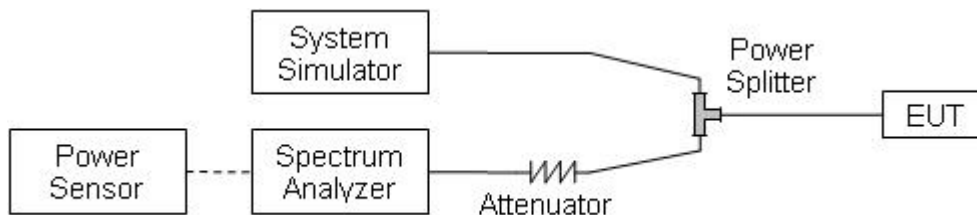
2. 47 CFR Part 2, Part 22H, Part 24E, Part 90S and 27 F&H&L&M Requirements

2.1. Transmitter Conducted Output Power

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).

2.1.2. Test Description



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

2.1.3. Test procedure

KDB 971168 D01 v03r01 Section 5.2 and ANSI/TIA-603-E-2016.



2.1.4. Result

<FDD LTE Band 2>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	22.96	23.62	22.91
20	QPSK	1	49	23.27	23.28	23.10
20	QPSK	1	99	23.54	23.21	23.02
20	QPSK	50	0	22.14	22.16	21.98
20	QPSK	50	24	22.06	22.13	22.03
20	QPSK	50	50	22.24	22.21	22.14
20	QPSK	100	0	22.14	22.18	21.96
20	16QAM	1	0	22.21	22.62	21.73
20	16QAM	1	49	22.26	22.04	21.91
20	16QAM	1	99	22.50	22.04	21.79
20	16QAM	50	0	22.11	22.14	22.03
20	16QAM	50	24	22.16	21.94	22.05
20	16QAM	50	50	22.21	22.18	22.15
20	16QAM	100	0	21.15	21.24	21.08
20	64QAM	1	0	22.19	22.17	21.74
20	64QAM	1	49	22.26	22.05	21.91
20	64QAM	1	99	22.45	22.04	21.80
20	64QAM	50	0	22.11	22.13	21.96
20	64QAM	50	24	21.88	22.16	22.21
20	64QAM	50	50	22.22	22.17	22.14
20	64QAM	100	0	22.14	22.16	21.99
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.82	23.32	23.02
15	QPSK	1	37	23.05	23.17	23.16
15	QPSK	1	74	23.17	23.04	23.07
15	QPSK	36	0	22.01	22.26	21.95
15	QPSK	36	20	21.85	22.20	22.16
15	QPSK	36	39	22.29	22.23	22.15



15	QPSK	75	0	22.17	22.21	21.96
15	16QAM	1	0	22.25	22.21	22.02
15	16QAM	1	37	22.24	22.30	22.15
15	16QAM	1	74	22.25	22.33	22.04
15	16QAM	36	0	21.99	22.24	21.95
15	16QAM	36	20	21.84	22.08	22.13
15	16QAM	36	39	22.27	22.20	22.15
15	16QAM	75	0	21.28	21.26	21.12
15	64QAM	1	0	22.25	22.19	22.04
15	64QAM	1	37	22.29	22.33	22.16
15	64QAM	1	74	22.26	22.31	22.04
15	64QAM	36	0	22.01	22.23	21.95
15	64QAM	36	20	22.14	22.06	21.83
15	64QAM	36	39	22.26	22.19	22.16
15	64QAM	75	0	22.17	22.23	21.98
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.92	23.39	23.13
10	QPSK	1	25	23.04	23.20	23.22
10	QPSK	1	49	23.34	23.24	23.15
10	QPSK	25	0	22.07	22.24	22.11
10	QPSK	25	12	22.03	22.15	22.04
10	QPSK	25	25	22.19	22.23	22.13
10	QPSK	50	0	22.16	22.21	22.17
10	16QAM	1	0	22.40	22.39	21.97
10	16QAM	1	25	22.33	22.36	22.02
10	16QAM	1	49	22.44	22.45	21.97
10	16QAM	25	0	22.06	22.22	22.11
10	16QAM	25	12	21.85	21.64	21.53
10	16QAM	25	25	22.20	22.20	22.13
10	16QAM	50	0	21.25	21.23	21.22
10	64QAM	1	0	22.39	22.39	21.98
10	64QAM	1	25	22.35	22.34	22.02
10	64QAM	1	49	22.43	22.42	21.97
10	64QAM	25	0	22.06	22.22	22.11
10	64QAM	25	12	22.05	22.14	22.03
10	64QAM	25	25	22.19	22.22	22.13
10	64QAM	50	0	22.18	22.20	22.16



Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.88	23.33	23.04
5	QPSK	1	12	23.00	23.39	23.16
5	QPSK	1	24	22.95	23.23	22.98
5	QPSK	12	0	21.92	22.21	22.18
5	QPSK	12	7	21.84	21.96	21.85
5	QPSK	12	13	21.92	22.22	22.11
5	QPSK	25	0	21.92	22.25	22.10
5	16QAM	1	0	22.30	22.33	22.33
5	16QAM	1	12	22.42	22.42	22.38
5	16QAM	1	24	22.35	22.35	22.32
5	16QAM	12	0	22.10	22.24	22.17
5	16QAM	12	7	22.03	21.89	21.52
5	16QAM	12	13	22.03	22.22	22.10
5	16QAM	25	0	21.18	21.22	21.22
5	64QAM	1	0	22.33	22.30	22.33
5	64QAM	1	12	22.46	22.46	22.42
5	64QAM	1	24	22.36	22.36	22.31
5	64QAM	12	0	22.07	22.22	22.15
5	64QAM	12	7	22.00	21.83	22.08
5	64QAM	12	13	22.10	22.20	22.10
5	64QAM	25	0	22.06	22.20	22.09
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.79	23.16	23.15
3	QPSK	1	8	22.84	23.21	23.14
3	QPSK	1	14	22.77	23.13	23.11
3	QPSK	8	0	22.80	23.15	23.16
3	QPSK	8	4	22.32	22.06	22.04
3	QPSK	8	7	22.83	23.11	23.09
3	QPSK	15	0	21.93	22.17	22.12
3	16QAM	1	0	22.17	22.27	21.99
3	16QAM	1	8	22.25	22.33	21.94
3	16QAM	1	14	22.19	22.29	21.94
3	16QAM	8	0	22.17	22.27	21.97
3	16QAM	8	4	21.89	21.54	22.01
3	16QAM	8	7	22.16	22.29	21.94



3	16QAM	15	0	20.98	21.12	21.19
3	64QAM	1	0	22.17	22.28	21.99
3	64QAM	1	8	22.25	22.36	21.98
3	64QAM	1	14	22.20	22.28	21.97
3	64QAM	8	0	22.18	22.27	21.97
3	64QAM	8	4	21.85	21.62	21.53
3	64QAM	8	7	22.20	22.28	21.96
3	64QAM	15	0	20.97	21.11	21.18
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.94	23.10	23.10
1.4	QPSK	1	3	23.05	23.19	23.15
1.4	QPSK	1	5	22.94	23.10	23.06
1.4	QPSK	3	0	22.85	23.02	23.02
1.4	QPSK	3	1	22.83	22.94	22.76
1.4	QPSK	3	3	22.85	22.91	22.97
1.4	QPSK	6	0	21.81	22.21	22.02
1.4	16QAM	1	0	21.94	22.28	21.92
1.4	16QAM	1	3	22.08	22.35	21.96
1.4	16QAM	1	5	21.98	22.27	21.94
1.4	16QAM	3	0	22.87	23.03	23.00
1.4	16QAM	3	1	22.89	22.96	22.85
1.4	16QAM	3	3	22.86	23.01	22.97
1.4	16QAM	6	0	20.93	21.12	21.10
1.4	64QAM	1	0	21.97	22.26	21.92
1.4	64QAM	1	3	22.09	22.38	21.97
1.4	64QAM	1	5	21.99	22.29	21.93
1.4	64QAM	3	0	22.85	22.97	23.01
1.4	64QAM	3	1	21.54	21.69	21.53
1.4	64QAM	3	3	22.84	23.01	22.96
1.4	64QAM	6	0	21.80	22.17	22.05



<FDD LTE Band 4>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.39	22.71	22.65
20	QPSK	1	49	22.68	22.75	22.43
20	QPSK	1	99	22.80	22.67	22.51
20	QPSK	50	0	21.54	21.69	21.43
20	QPSK	50	24	21.52	21.68	21.32
20	QPSK	50	50	21.72	21.57	21.33
20	QPSK	100	0	21.61	21.64	21.41
20	16QAM	1	0	21.20	21.73	21.39
20	16QAM	1	49	21.39	21.85	21.28
20	16QAM	1	99	21.47	21.64	21.34
20	16QAM	50	0	21.55	21.70	21.41
20	16QAM	50	24	21.16	21.54	21.39
20	16QAM	50	50	21.74	21.56	21.33
20	16QAM	100	0	20.62	20.67	20.35
20	64QAM	1	0	21.19	21.74	21.40
20	64QAM	1	49	21.38	21.85	21.23
20	64QAM	1	99	21.47	21.67	21.31
20	64QAM	50	0	21.60	21.70	21.40
20	64QAM	50	24	21.93	21.62	21.35
20	64QAM	50	50	21.77	21.57	21.34
20	64QAM	100	0	21.62	21.65	21.42
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.53	22.77	22.58
15	QPSK	1	37	22.67	22.71	22.49
15	QPSK	1	74	22.75	22.50	22.40
15	QPSK	36	0	21.52	21.77	21.45
15	QPSK	36	20	21.34	21.43	21.35
15	QPSK	36	39	21.69	21.70	21.54
15	QPSK	75	0	21.66	21.66	21.44
15	16QAM	1	0	21.49	21.92	21.62
15	16QAM	1	37	21.51	21.88	21.55



15	16QAM	1	74	21.63	21.59	21.60
15	16QAM	36	0	21.48	21.77	21.45
15	16QAM	36	20	21.38	21.62	21.48
15	16QAM	36	39	21.74	21.70	21.54
15	16QAM	75	0	20.69	20.78	20.42
15	64QAM	1	0	21.49	21.95	21.62
15	64QAM	1	37	21.52	21.88	21.61
15	64QAM	1	74	21.61	21.63	21.60
15	64QAM	36	0	21.51	21.77	21.46
15	64QAM	36	20	21.42	21.67	21.42
15	64QAM	36	39	21.73	21.70	21.53
15	64QAM	75	0	21.67	21.66	21.44
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.56	22.78	22.47
10	QPSK	1	25	22.65	22.72	22.41
10	QPSK	1	49	22.73	22.66	22.45
10	QPSK	25	0	21.50	21.72	21.38
10	QPSK	25	12	21.48	21.62	21.33
10	QPSK	25	25	21.52	21.65	21.49
10	QPSK	50	0	21.51	21.69	21.35
10	16QAM	1	0	21.38	21.95	21.55
10	16QAM	1	25	21.39	21.89	21.55
10	16QAM	1	49	21.42	21.78	21.65
10	16QAM	25	0	21.50	21.72	21.38
10	16QAM	25	12	21.42	21.63	21.32
10	16QAM	25	25	21.51	21.64	21.49
10	16QAM	50	0	20.56	20.68	20.26
10	64QAM	1	0	21.37	21.97	21.55
10	64QAM	1	25	21.37	21.87	21.54
10	64QAM	1	49	21.43	21.78	21.64
10	64QAM	25	0	21.50	21.73	21.39
10	64QAM	25	12	21.44	21.62	21.35
10	64QAM	25	25	21.53	21.65	21.50
10	64QAM	50	0	21.51	21.64	21.36
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.45	22.70	22.58



5	QPSK	1	12	22.53	22.73	22.64
5	QPSK	1	24	22.48	22.72	22.57
5	QPSK	12	0	21.54	21.72	21.49
5	QPSK	12	7	21.35	21.47	21.43
5	QPSK	12	13	21.51	21.68	21.50
5	QPSK	25	0	21.48	21.70	21.54
5	16QAM	1	0	21.74	21.87	21.63
5	16QAM	1	12	21.79	22.00	21.74
5	16QAM	1	24	21.71	21.89	21.69
5	16QAM	12	0	21.49	21.72	21.49
5	16QAM	12	7	21.00	21.52	21.34
5	16QAM	12	13	21.53	21.69	21.50
5	16QAM	25	0	20.56	20.68	20.42
5	64QAM	1	0	21.72	21.87	21.64
5	64QAM	1	12	21.80	22.00	21.75
5	64QAM	1	24	21.72	21.89	21.70
5	64QAM	12	0	21.50	21.73	21.50
5	64QAM	12	7	21.49	21.62	21.44
5	64QAM	12	13	21.55	21.69	21.50
5	64QAM	25	0	21.51	21.68	21.50
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.58	22.63	22.45
3	QPSK	1	8	22.62	22.73	22.48
3	QPSK	1	14	22.62	22.68	22.45
3	QPSK	8	0	22.57	22.63	22.43
3	QPSK	8	4	22.42	22.54	22.36
3	QPSK	8	7	22.61	22.68	22.46
3	QPSK	15	0	21.48	21.68	21.50
3	16QAM	1	0	21.41	21.81	21.61
3	16QAM	1	8	21.38	21.89	21.65
3	16QAM	1	14	21.37	21.84	21.62
3	16QAM	8	0	21.43	21.77	21.63
3	16QAM	8	4	21.32	21.67	21.52
3	16QAM	8	7	21.38	21.83	21.62
3	16QAM	15	0	20.54	20.66	20.41
3	64QAM	1	0	21.43	21.78	21.58
3	64QAM	1	8	21.39	21.88	21.66



3	64QAM	1	14	21.37	21.83	21.61
3	64QAM	8	0	21.41	21.76	21.62
3	64QAM	8	4	21.42	21.48	21.70
3	64QAM	8	7	21.37	21.81	21.63
3	64QAM	15	0	20.54	20.68	20.40
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.54	22.63	22.51
1.4	QPSK	1	3	22.63	22.71	22.56
1.4	QPSK	1	5	22.49	22.64	22.48
1.4	QPSK	3	0	22.40	22.46	22.32
1.4	QPSK	3	1	22.33	22.41	22.15
1.4	QPSK	3	3	22.39	22.42	22.25
1.4	QPSK	6	0	21.46	21.71	21.46
1.4	16QAM	1	0	21.48	21.77	21.34
1.4	16QAM	1	3	21.53	21.84	21.38
1.4	16QAM	1	5	21.44	21.74	21.35
1.4	16QAM	3	0	22.35	22.49	22.33
1.4	16QAM	3	1	22.33	22.46	22.28
1.4	16QAM	3	3	22.32	22.51	22.32
1.4	16QAM	6	0	20.49	20.62	20.46
1.4	64QAM	1	0	21.47	21.73	21.32
1.4	64QAM	1	3	21.56	21.81	21.42
1.4	64QAM	1	5	21.47	21.78	21.34
1.4	64QAM	3	0	22.40	22.47	22.32
1.4	64QAM	3	1	22.39	22.43	22.30
1.4	64QAM	3	3	22.34	22.41	22.31
1.4	64QAM	6	0	21.46	21.73	21.50

<FDD LTE Band 5>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.79	23.74	23.87
10	QPSK	1	25	23.75	23.81	23.75
10	QPSK	1	49	23.82	23.81	23.67



10	QPSK	25	0	22.90	22.86	22.75
10	QPSK	25	12	22.81	22.78	22.64
10	QPSK	25	25	22.95	22.84	22.58
10	QPSK	50	0	22.91	22.84	22.63
10	16QAM	1	0	23.18	22.92	22.67
10	16QAM	1	25	23.05	22.94	22.61
10	16QAM	1	49	23.04	22.97	22.50
10	16QAM	25	0	22.85	22.87	22.74
10	16QAM	25	12	22.84	22.68	22.76
10	16QAM	25	25	22.92	22.82	22.59
10	16QAM	50	0	22.00	21.85	21.66
10	64QAM	1	0	23.17	22.92	22.66
10	64QAM	1	25	23.02	22.95	22.62
10	64QAM	1	49	23.03	22.97	22.49
10	64QAM	25	0	22.86	22.87	22.74
10	64QAM	25	12	22.81	22.76	22.77
10	64QAM	25	25	22.92	22.82	22.61
10	64QAM	50	0	22.95	22.84	22.60
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.85	23.80	23.60
5	QPSK	1	12	23.81	23.83	23.48
5	QPSK	1	24	23.80	23.84	23.53
5	QPSK	12	0	22.92	22.84	22.60
5	QPSK	12	7	22.90	22.81	22.62
5	QPSK	12	13	22.86	22.80	22.56
5	QPSK	25	0	22.86	22.85	22.55
5	16QAM	1	0	23.19	23.03	22.94
5	16QAM	1	12	23.25	23.03	22.90
5	16QAM	1	24	23.11	23.06	22.80
5	16QAM	12	0	22.89	22.85	22.60
5	16QAM	12	7	22.84	22.76	22.65
5	16QAM	12	13	22.84	22.81	22.54
5	16QAM	25	0	21.95	21.80	21.64
5	64QAM	1	0	23.18	23.02	22.94
5	64QAM	1	12	23.25	23.05	22.90
5	64QAM	1	24	23.13	23.07	22.81
5	64QAM	12	0	22.86	22.85	22.59



5	64QAM	12	7	22.79	22.83	22.52
5	64QAM	12	13	22.86	22.80	22.54
5	64QAM	25	0	22.89	22.83	22.59
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.72	23.65	23.80
3	QPSK	1	8	23.68	23.74	23.65
3	QPSK	1	14	23.15	23.16	23.25
3	QPSK	8	0	22.87	22.72	22.82
3	QPSK	8	4	22.78	22.70	22.80
3	QPSK	8	7	22.92	22.76	22.84
3	QPSK	15	0	22.09	21.96	21.79
3	16QAM	1	0	22.52	22.07	21.76
3	16QAM	1	8	22.46	22.19	21.90
3	16QAM	1	14	22.50	22.13	21.85
3	16QAM	8	0	22.60	22.08	21.77
3	16QAM	8	4	22.62	22.03	21.86
3	16QAM	8	7	22.50	22.12	21.85
3	16QAM	15	0	21.04	20.88	20.85
3	64QAM	1	0	22.59	22.08	21.77
3	64QAM	1	8	22.43	22.19	21.89
3	64QAM	1	14	22.48	22.12	21.84
3	64QAM	8	0	22.57	22.07	21.76
3	64QAM	8	4	22.52	22.06	21.79
3	64QAM	8	7	22.47	22.12	21.84
3	64QAM	15	0	21.10	20.88	20.74
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.83	23.67	23.58
1.4	QPSK	1	3	23.70	23.73	23.61
1.4	QPSK	1	5	23.82	23.67	23.54
1.4	QPSK	3	0	23.74	23.62	23.46
1.4	QPSK	3	1	23.53	23.42	23.36
1.4	QPSK	3	3	23.73	23.58	23.38
1.4	QPSK	6	0	22.80	22.84	22.56
1.4	16QAM	1	0	22.87	22.85	22.46
1.4	16QAM	1	3	22.96	22.94	22.51
1.4	16QAM	1	5	22.88	22.85	22.35



1.4	16QAM	3	0	23.79	23.60	23.48
1.4	16QAM	3	1	23.72	23.54	23.62
1.4	16QAM	3	3	23.75	23.61	23.40
1.4	16QAM	6	0	21.91	21.75	21.61
1.4	64QAM	1	0	22.89	22.87	22.44
1.4	64QAM	1	3	22.95	22.95	22.47
1.4	64QAM	1	5	22.86	22.86	22.38
1.4	64QAM	3	0	23.76	23.63	23.45
1.4	64QAM	3	1	23.60	23.79	23.42
1.4	64QAM	3	3	23.75	23.60	23.39
1.4	64QAM	6	0	22.83	22.83	22.56

<FDD LTE Band 7>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	19.95	20.06	20.24
20	QPSK	1	49	19.92	20.14	20.31
20	QPSK	1	99	19.96	20.28	20.51
20	QPSK	50	0	18.87	19.13	19.41
20	QPSK	50	24	19.26	19.20	19.19
20	QPSK	50	50	18.92	19.62	19.52
20	QPSK	100	0	18.94	19.24	19.46
20	16QAM	1	0	18.69	19.45	19.11
20	16QAM	1	49	18.71	19.45	19.21
20	16QAM	1	99	18.72	19.47	19.42
20	16QAM	50	0	18.82	19.23	19.42
20	16QAM	50	24	18.93	19.06	19.25
20	16QAM	50	50	18.89	19.17	19.52
20	16QAM	100	0	18.07	18.39	18.53
20	64QAM	1	0	18.68	19.45	19.12
20	64QAM	1	49	18.59	19.54	19.21
20	64QAM	1	99	18.72	19.47	19.43
20	64QAM	50	0	18.92	19.21	19.43
20	64QAM	50	24	18.96	19.27	19.42
20	64QAM	50	50	18.97	19.16	19.53



20	64QAM	100	0	18.88	19.23	19.46
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	19.79	19.96	20.11
15	QPSK	1	37	19.73	20.04	20.35
15	QPSK	1	74	19.71	20.04	20.37
15	QPSK	36	0	18.86	19.21	19.48
15	QPSK	36	20	18.74	18.92	19.16
15	QPSK	36	39	18.94	19.20	19.50
15	QPSK	75	0	18.91	19.21	19.51
15	16QAM	1	0	19.40	19.53	19.50
15	16QAM	1	37	19.31	19.56	19.67
15	16QAM	1	74	19.51	19.52	19.71
15	16QAM	36	0	18.92	19.11	19.38
15	16QAM	36	20	18.95	19.07	19.23
15	16QAM	36	39	18.90	19.20	19.49
15	16QAM	75	0	17.95	18.28	18.54
15	64QAM	1	0	19.39	19.42	19.51
15	64QAM	1	37	19.29	19.56	19.77
15	64QAM	1	74	19.48	19.51	19.72
15	64QAM	36	0	18.90	19.21	19.47
15	64QAM	36	20	18.86	19.14	19.32
15	64QAM	36	39	18.89	19.19	19.49
15	64QAM	75	0	18.86	19.20	19.50
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	19.74	20.09	20.19
10	QPSK	1	25	19.74	20.02	20.42
10	QPSK	1	49	19.70	20.05	20.34
10	QPSK	25	0	18.92	19.13	19.50
10	QPSK	25	12	18.98	19.15	19.55
10	QPSK	25	25	18.91	19.16	19.52
10	QPSK	50	0	18.85	19.12	19.44
10	16QAM	1	0	19.37	19.54	19.28
10	16QAM	1	25	19.40	19.51	19.57
10	16QAM	1	49	19.36	19.56	19.51
10	16QAM	25	0	18.88	19.12	19.51
10	16QAM	25	12	18.81	19.52	19.68



10	16QAM	25	25	18.87	19.15	19.52
10	16QAM	50	0	17.97	18.29	18.46
10	64QAM	1	0	19.35	19.54	19.30
10	64QAM	1	25	19.39	19.50	19.47
10	64QAM	1	49	19.45	19.54	19.51
10	64QAM	25	0	18.85	19.12	19.50
10	64QAM	25	12	18.88	19.01	19.63
10	64QAM	25	25	18.93	19.14	19.52
10	64QAM	50	0	18.90	19.11	19.53
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	19.83	20.15	20.27
5	QPSK	1	12	19.90	20.20	20.25
5	QPSK	1	24	19.78	20.21	20.27
5	QPSK	12	0	18.91	19.10	19.44
5	QPSK	12	7	18.85	18.92	19.63
5	QPSK	12	13	18.92	19.12	19.37
5	QPSK	25	0	18.92	19.09	19.43
5	16QAM	1	0	18.81	18.89	19.83
5	16QAM	1	12	18.93	18.99	19.78
5	16QAM	1	24	18.82	19.03	19.74
5	16QAM	12	0	18.85	19.09	19.42
5	16QAM	12	7	18.80	19.14	19.66
5	16QAM	12	13	18.86	19.20	19.34
5	16QAM	25	0	17.97	18.34	18.68
5	64QAM	1	0	18.89	18.99	19.83
5	64QAM	1	12	19.00	18.99	19.76
5	64QAM	1	24	18.88	19.00	19.72
5	64QAM	12	0	18.92	19.07	19.39
5	64QAM	12	7	18.90	19.05	19.30
5	64QAM	12	13	18.93	19.09	19.32
5	64QAM	25	0	18.83	19.06	19.49

<FDD LTE Band 12>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130



Frequency (MHz)				704	707.5	711
10	QPSK	1	0	21.97	22.03	22.25
10	QPSK	1	25	21.98	22.16	22.03
10	QPSK	1	49	22.10	22.02	22.08
10	QPSK	25	0	21.39	21.30	21.19
10	QPSK	25	12	21.22	21.35	21.06
10	QPSK	25	25	21.24	21.24	21.18
10	QPSK	50	0	21.15	21.28	21.19
10	16QAM	1	0	21.67	21.54	21.30
10	16QAM	1	25	21.68	21.60	21.18
10	16QAM	1	49	21.70	21.56	21.23
10	16QAM	25	0	21.17	21.21	21.20
10	16QAM	25	12	21.10	21.22	21.39
10	16QAM	25	25	21.32	21.25	21.18
10	16QAM	50	0	20.30	20.36	20.21
10	64QAM	1	0	21.67	21.55	21.22
10	64QAM	1	25	21.78	21.61	21.18
10	64QAM	1	49	21.68	21.46	21.24
10	64QAM	25	0	21.26	21.21	21.20
10	64QAM	25	12	21.18	21.28	21.37
10	64QAM	25	25	21.20	21.25	21.19
10	64QAM	50	0	21.23	21.28	21.20
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.13	22.09	21.95
5	QPSK	1	12	22.21	22.31	21.96
5	QPSK	1	24	22.11	22.16	22.10
5	QPSK	12	0	21.18	21.29	21.13
5	QPSK	12	7	21.19	21.34	21.11
5	QPSK	12	13	21.20	21.23	21.16
5	QPSK	25	0	21.24	21.19	21.15
5	16QAM	1	0	21.15	20.92	21.39
5	16QAM	1	12	21.18	21.07	21.54
5	16QAM	1	24	21.18	21.05	21.50
5	16QAM	12	0	21.16	21.20	21.14
5	16QAM	12	7	21.19	21.34	21.17
5	16QAM	12	13	21.28	21.23	21.16
5	16QAM	25	0	20.41	20.36	20.30



5	64QAM	1	0	21.15	20.93	21.51
5	64QAM	1	12	21.27	21.08	21.55
5	64QAM	1	24	21.17	21.05	21.50
5	64QAM	12	0	21.15	21.20	21.14
5	64QAM	12	7	21.14	21.22	21.00
5	64QAM	12	13	21.26	21.24	21.06
5	64QAM	25	0	21.29	21.19	21.15
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	21.93	22.06	22.03
3	QPSK	1	8	22.02	22.03	22.06
3	QPSK	1	14	21.99	22.15	22.09
3	QPSK	8	0	21.97	22.04	22.00
3	QPSK	8	4	21.99	22.03	22.01
3	QPSK	8	7	21.97	22.04	22.09
3	QPSK	15	0	21.18	21.29	21.16
3	16QAM	1	0	21.72	21.43	21.20
3	16QAM	1	8	21.62	21.55	21.27
3	16QAM	1	14	21.71	21.57	21.19
3	16QAM	8	0	21.73	21.43	21.22
3	16QAM	8	4	21.62	21.55	21.19
3	16QAM	8	7	21.58	21.57	21.19
3	16QAM	15	0	20.22	20.27	20.18
3	64QAM	1	0	21.73	21.44	21.22
3	64QAM	1	8	21.72	21.56	21.28
3	64QAM	1	14	21.70	21.48	21.19
3	64QAM	8	0	21.71	21.44	21.11
3	64QAM	8	4	21.85	21.00	21.14
3	64QAM	8	7	21.69	21.57	21.18
3	64QAM	15	0	20.21	20.27	20.18
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	22.04	22.05	22.02
1.4	QPSK	1	3	22.18	22.15	22.10
1.4	QPSK	1	5	22.05	22.03	22.07
1.4	QPSK	3	0	21.99	22.10	22.08
1.4	QPSK	3	1	21.84	22.03	22.09
1.4	QPSK	3	3	22.00	22.14	22.16



1.4	QPSK	6	0	21.00	21.13	21.14
1.4	16QAM	1	0	21.20	21.49	21.18
1.4	16QAM	1	3	21.40	21.54	21.21
1.4	16QAM	1	5	21.27	21.52	21.07
1.4	16QAM	3	0	22.07	22.09	22.07
1.4	16QAM	3	1	21.42	22.01	22.08
1.4	16QAM	3	3	22.07	22.13	22.15
1.4	16QAM	6	0	20.21	20.42	19.99
1.4	64QAM	1	0	21.29	21.40	21.17
1.4	64QAM	1	3	21.38	21.54	21.20
1.4	64QAM	1	5	21.25	21.52	21.06
1.4	64QAM	3	0	22.05	22.10	22.07
1.4	64QAM	3	1	21.54	22.11	21.00
1.4	64QAM	3	3	22.05	22.12	22.14
1.4	64QAM	6	0	21.06	21.12	21.12

<FDD LTE Band 13>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23230		
Frequency (MHz)				782		
10	QPSK	1	0	20.86		
10	QPSK	1	25	20.76		
10	QPSK	1	49	20.73		
10	QPSK	25	0	19.99		
10	QPSK	25	12	19.88		
10	QPSK	25	25	19.93		
10	QPSK	50	0	19.98		
10	16QAM	1	0	20.44		
10	16QAM	1	25	20.40		
10	16QAM	1	49	20.50		
10	16QAM	25	0	19.93		
10	16QAM	25	12	19.25		
10	16QAM	25	25	19.93		
10	16QAM	50	0	19.04		
10	64QAM	1	0	20.34		
10	64QAM	1	25	20.41		



10	64QAM	1	49	20.50		
10	64QAM	25	0	19.93		
10	64QAM	25	12	19.96		
10	64QAM	25	25	19.93		
10	64QAM	50	0	19.98		
Channel				23205	23230	23255
Frequency (MHz)				779.5	782	784.5
5	QPSK	1	0	20.96	20.80	20.94
5	QPSK	1	12	20.98	20.84	20.97
5	QPSK	1	24	20.93	20.88	20.97
5	QPSK	12	0	19.98	19.88	20.01
5	QPSK	12	7	19.99	20.22	20.09
5	QPSK	12	13	19.93	19.95	20.02
5	QPSK	25	0	19.94	19.97	19.99
5	16QAM	1	0	19.72	20.21	19.92
5	16QAM	1	12	19.76	20.30	20.08
5	16QAM	1	24	19.73	20.35	19.99
5	16QAM	12	0	19.98	19.87	19.92
5	16QAM	12	7	19.95	19.86	19.93
5	16QAM	12	13	19.92	19.94	20.01
5	16QAM	25	0	19.11	19.13	19.10
5	64QAM	1	0	19.71	20.21	19.93
5	64QAM	1	12	19.75	20.30	20.08
5	64QAM	1	24	19.72	20.35	19.98
5	64QAM	12	0	19.97	19.88	19.91
5	64QAM	12	7	19.86	19.85	19.90
5	64QAM	12	13	19.91	19.94	20.01
5	64QAM	25	0	19.93	19.96	19.99

<FDD LTE Band 14>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23330		
Frequency (MHz)				793		
10	QPSK	1	0	21.99		
10	QPSK	1	25	21.96		
10	QPSK	1	49	21.87		



10	QPSK	25	0	21.50		
10	QPSK	25	12	21.23		
10	QPSK	25	25	21.05		
10	QPSK	50	0	21.12		
10	16QAM	1	0	21.54		
10	16QAM	1	25	21.51		
10	16QAM	1	49	21.52		
10	16QAM	25	0	21.09		
10	16QAM	25	12	21.06		
10	16QAM	25	25	21.04		
10	16QAM	50	0	20.11		
10	64QAM	1	0	21.55		
10	64QAM	1	25	21.51		
10	64QAM	1	49	21.52		
10	64QAM	25	0	21.09		
10	64QAM	25	12	21.11		
10	64QAM	25	25	21.03		
10	64QAM	50	0	19.98		
Channel				23305	23330	23355
Frequency (MHz)				790.5	793	795.5
5	QPSK	1	0	21.83	21.84	21.89
5	QPSK	1	12	21.90	21.86	21.88
5	QPSK	1	24	21.81	21.73	21.78
5	QPSK	12	0	21.12	21.12	21.03
5	QPSK	12	7	21.19	21.14	21.93
5	QPSK	12	13	21.11	20.98	21.10
5	QPSK	25	0	21.13	21.06	21.10
5	16QAM	1	0	20.89	21.44	21.18
5	16QAM	1	12	20.98	21.52	21.22
5	16QAM	1	24	20.89	21.31	21.06
5	16QAM	12	0	21.19	21.10	21.12
5	16QAM	12	7	21.52	21.40	21.22
5	16QAM	12	13	21.07	21.06	21.09
5	16QAM	25	0	20.30	20.22	20.21
5	64QAM	1	0	20.87	21.44	21.19
5	64QAM	1	12	20.95	21.51	21.21
5	64QAM	1	24	20.87	21.39	20.94
5	64QAM	12	0	21.16	21.08	21.12



5	64QAM	12	7	21.11	21.09	21.13
5	64QAM	12	13	21.15	21.04	21.20
5	64QAM	25	0	21.07	21.03	21.07

<FDD LTE Band 17>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.66	23.78	23.69
10	QPSK	1	25	23.66	23.64	23.67
10	QPSK	1	49	23.57	23.52	23.52
10	QPSK	25	0	22.74	22.75	22.75
10	QPSK	25	12	22.74	22.70	22.79
10	QPSK	25	25	22.65	22.66	22.69
10	QPSK	50	0	22.73	22.63	22.69
10	16QAM	1	0	23.43	23.25	22.95
10	16QAM	1	25	23.37	23.19	22.93
10	16QAM	1	49	23.28	23.05	22.68
10	16QAM	25	0	22.84	22.77	22.77
10	16QAM	25	12	22.68	22.70	22.66
10	16QAM	25	25	22.64	22.66	22.59
10	16QAM	50	0	21.79	21.85	21.73
10	64QAM	1	0	23.43	23.27	22.97
10	64QAM	1	25	23.37	23.09	22.95
10	64QAM	1	49	23.29	23.05	22.68
10	64QAM	25	0	22.83	22.77	22.77
10	64QAM	25	12	22.80	22.75	22.69
10	64QAM	25	25	22.74	22.66	22.70
10	64QAM	50	0	22.71	22.73	22.69
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.83	23.62	23.78
5	QPSK	1	12	23.64	23.66	23.73
5	QPSK	1	24	23.90	23.61	23.62
5	QPSK	12	0	22.84	22.74	22.75
5	QPSK	12	7	22.80	22.79	22.76



5	QPSK	12	13	22.94	22.73	22.65
5	QPSK	25	0	22.82	22.73	22.59
5	16QAM	1	0	22.64	23.21	22.85
5	16QAM	1	12	22.84	23.21	22.83
5	16QAM	1	24	22.68	23.18	22.63
5	16QAM	12	0	22.83	22.74	22.76
5	16QAM	12	7	22.69	22.68	22.70
5	16QAM	12	13	22.81	22.73	22.65
5	16QAM	25	0	22.13	21.90	21.82
5	64QAM	1	0	22.65	23.11	22.86
5	64QAM	1	12	22.84	23.21	22.84
5	64QAM	1	24	22.68	23.17	22.63
5	64QAM	12	0	22.83	22.73	22.76
5	64QAM	12	7	22.80	22.79	22.74
5	64QAM	12	13	22.93	22.71	22.65
5	64QAM	25	0	22.80	22.71	22.58

<FDD LTE Band 25>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26140	26365	26590
Frequency (MHz)				1860	1882.5	1905
20	QPSK	1	0	23.58	24.10	23.80
20	QPSK	1	49	23.75	23.80	23.91
20	QPSK	1	99	23.45	23.94	23.81
20	QPSK	50	0	22.64	22.87	22.83
20	QPSK	50	24	22.63	22.80	22.80
20	QPSK	50	50	22.84	22.90	22.82
20	QPSK	100	0	22.74	22.92	22.85
20	16QAM	1	0	22.81	22.70	22.58
20	16QAM	1	49	22.77	22.71	22.63
20	16QAM	1	99	22.79	22.73	22.45
20	16QAM	50	0	22.65	22.86	22.83
20	16QAM	50	24	22.49	22.43	22.74
20	16QAM	50	50	22.84	22.89	22.84
20	16QAM	100	0	21.72	21.95	21.89
20	64QAM	1	0	22.79	22.70	22.61



20	64QAM	1	49	22.74	22.71	22.63
20	64QAM	1	99	22.81	22.73	22.56
20	64QAM	50	0	22.66	22.86	22.83
20	64QAM	50	24	22.70	22.75	22.58
20	64QAM	50	50	22.84	22.91	22.85
20	64QAM	100	0	22.74	22.91	22.84
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	23.49	23.88	23.95
15	QPSK	1	37	23.63	23.85	24.03
15	QPSK	1	74	23.72	23.77	23.30
15	QPSK	36	0	22.63	22.92	22.83
15	QPSK	36	20	22.64	22.88	22.84
15	QPSK	36	39	22.92	22.88	22.87
15	QPSK	75	0	22.81	22.91	22.84
15	16QAM	1	0	22.86	22.93	22.91
15	16QAM	1	37	22.85	23.03	22.86
15	16QAM	1	74	22.82	23.00	22.60
15	16QAM	36	0	22.64	22.94	22.83
15	16QAM	36	20	22.60	22.93	22.84
15	16QAM	36	39	22.91	22.95	22.86
15	16QAM	75	0	21.86	21.96	21.92
15	64QAM	1	0	22.85	22.91	22.91
15	64QAM	1	37	22.86	23.01	22.87
15	64QAM	1	74	22.82	23.00	22.50
15	64QAM	36	0	22.65	22.93	22.83
15	64QAM	36	20	22.76	22.68	22.80
15	64QAM	36	39	22.90	22.94	22.87
15	64QAM	75	0	22.81	22.94	22.87
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	23.67	24.05	24.01
10	QPSK	1	25	23.61	23.94	23.87
10	QPSK	1	49	23.86	23.88	23.51
10	QPSK	25	0	22.68	22.89	22.80
10	QPSK	25	12	22.66	22.80	22.46
10	QPSK	25	25	22.73	22.92	22.80
10	QPSK	50	0	22.66	22.93	22.83



10	16QAM	1	0	22.99	23.07	22.74
10	16QAM	1	25	22.91	23.03	22.66
10	16QAM	1	49	22.91	23.10	22.34
10	16QAM	25	0	22.68	22.91	22.77
10	16QAM	25	12	22.60	22.93	22.67
10	16QAM	25	25	22.75	22.94	22.76
10	16QAM	50	0	21.73	21.95	21.88
10	64QAM	1	0	22.98	23.08	22.73
10	64QAM	1	25	22.89	23.02	22.67
10	64QAM	1	49	22.92	23.12	22.40
10	64QAM	25	0	22.65	22.92	22.76
10	64QAM	25	12	22.60	22.83	22.70
10	64QAM	25	25	22.70	22.92	22.80
10	64QAM	50	0	22.70	22.93	22.84
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	23.59	23.96	23.69
5	QPSK	1	12	23.72	24.05	23.83
5	QPSK	1	24	23.64	23.90	23.46
5	QPSK	12	0	22.70	22.91	22.81
5	QPSK	12	7	22.73	22.90	22.83
5	QPSK	12	13	22.70	22.89	22.91
5	QPSK	25	0	22.66	22.91	22.80
5	16QAM	1	0	22.91	22.99	22.95
5	16QAM	1	12	23.06	23.12	22.96
5	16QAM	1	24	22.92	23.07	22.59
5	16QAM	12	0	22.70	22.92	22.84
5	16QAM	12	7	22.73	22.09	22.86
5	16QAM	12	13	22.69	22.90	22.93
5	16QAM	25	0	21.79	21.93	21.80
5	64QAM	1	0	22.92	22.99	22.98
5	64QAM	1	12	22.99	23.13	22.96
5	64QAM	1	24	22.90	23.08	22.64
5	64QAM	12	0	22.66	22.92	22.79
5	64QAM	12	7	22.73	22.90	22.74
5	64QAM	12	13	22.71	22.90	22.96
5	64QAM	25	0	22.70	22.92	22.77
Channel				26055	26340	26675



Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	23.53	23.82	23.78
3	QPSK	1	8	23.55	23.86	24.01
3	QPSK	1	14	23.50	23.81	23.65
3	QPSK	8	0	23.50	23.83	23.74
3	QPSK	8	4	23.42	23.36	23.65
3	QPSK	8	7	23.52	23.78	23.66
3	QPSK	15	0	22.67	22.88	23.37
3	16QAM	1	0	22.85	22.99	22.57
3	16QAM	1	8	22.90	22.98	22.74
3	16QAM	1	14	22.86	22.96	22.61
3	16QAM	8	0	22.86	22.97	22.57
3	16QAM	8	4	22.94	22.80	22.84
3	16QAM	8	7	22.85	22.97	22.88
3	16QAM	15	0	21.73	21.84	23.70
3	64QAM	1	0	22.87	22.97	22.57
3	64QAM	1	8	22.90	23.00	22.73
3	64QAM	1	14	22.86	22.96	22.58
3	64QAM	8	0	22.87	22.97	22.57
3	64QAM	8	4	22.98	22.75	22.76
3	64QAM	8	7	22.87	22.98	22.88
3	64QAM	15	0	21.73	21.81	23.70
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	23.65	23.72	23.64
1.4	QPSK	1	3	23.77	23.79	22.17
1.4	QPSK	1	5	23.63	23.73	23.71
1.4	QPSK	3	0	23.54	23.66	22.96
1.4	QPSK	3	1	23.48	23.42	22.34
1.4	QPSK	3	3	23.51	23.66	21.67
1.4	QPSK	6	0	22.57	22.82	22.20
1.4	16QAM	1	0	22.64	22.86	22.53
1.4	16QAM	1	3	22.76	22.96	21.75
1.4	16QAM	1	5	22.64	22.88	22.75
1.4	16QAM	3	0	23.53	23.66	23.00
1.4	16QAM	3	1	23.34	23.69	23.42
1.4	16QAM	3	3	23.50	23.62	21.71
1.4	16QAM	6	0	21.71	21.77	21.93



1.4	64QAM	1	0	22.63	22.87	22.76
1.4	64QAM	1	3	22.75	22.95	21.79
1.4	64QAM	1	5	22.65	22.89	22.81
1.4	64QAM	3	0	23.52	23.66	23.03
1.4	64QAM	3	1	23.40	23.39	23.32
1.4	64QAM	3	3	23.51	23.67	21.73
1.4	64QAM	6	0	22.55	22.80	22.25

<FDD LTE Band 26>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5
15	QPSK	1	0	23.54	23.60	23.89
15	QPSK	1	37	23.55	23.55	23.52
15	QPSK	1	74	23.38	23.50	23.32
15	QPSK	36	0	22.71	22.67	22.66
15	QPSK	36	20	22.70	22.68	22.54
15	QPSK	36	39	22.49	22.71	22.59
15	QPSK	75	0	22.67	22.65	22.70
15	16QAM	1	0	23.05	23.02	22.87
15	16QAM	1	37	23.14	22.99	22.89
15	16QAM	1	74	23.11	22.95	22.72
15	16QAM	36	0	22.95	22.87	22.84
15	16QAM	36	20	22.97	22.75	22.80
15	16QAM	36	39	22.90	22.89	22.84
15	16QAM	75	0	21.98	21.90	21.83
15	64QAM	1	0	23.06	23.04	22.87
15	64QAM	1	37	23.13	23.01	22.89
15	64QAM	1	74	23.10	22.98	22.72
15	64QAM	36	0	22.94	22.87	22.84
15	64QAM	36	20	22.86	22.80	22.74
15	64QAM	36	39	22.89	22.89	22.82
15	64QAM	75	0	22.82	22.85	22.77
Channel				26740	26865	26990
Frequency (MHz)				819	831.5	844
10	QPSK	1	0	23.66	23.78	23.67



10	QPSK	1	25	23.76	23.76	23.73
10	QPSK	1	49	23.76	23.81	23.81
10	QPSK	25	0	22.94	22.88	22.77
10	QPSK	25	12	22.62	22.95	22.76
10	QPSK	25	25	22.90	22.79	22.81
10	QPSK	50	0	22.94	22.81	22.76
10	16QAM	1	0	23.03	23.08	22.69
10	16QAM	1	25	23.05	22.96	22.76
10	16QAM	1	49	23.14	23.00	22.63
10	16QAM	25	0	22.94	22.88	22.78
10	16QAM	25	12	22.88	22.86	22.63
10	16QAM	25	25	22.90	22.82	22.81
10	16QAM	50	0	22.01	21.88	21.80
10	64QAM	1	0	23.03	23.06	22.69
10	64QAM	1	25	23.03	22.98	22.74
10	64QAM	1	49	23.13	22.97	22.60
10	64QAM	25	0	22.94	22.89	22.77
10	64QAM	25	12	22.85	22.76	22.64
10	64QAM	25	25	22.97	22.82	22.85
10	64QAM	50	0	22.93	22.81	22.74
Channel				26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5
5	QPSK	1	0	23.76	23.82	23.72
5	QPSK	1	12	23.66	23.67	23.71
5	QPSK	1	24	23.79	23.80	23.65
5	QPSK	12	0	22.93	22.88	22.87
5	QPSK	12	7	22.96	22.81	22.83
5	QPSK	12	13	22.91	22.81	22.81
5	QPSK	25	0	22.92	22.85	22.80
5	16QAM	1	0	23.11	23.11	23.11
5	16QAM	1	12	23.22	23.06	23.10
5	16QAM	1	24	23.13	23.09	22.93
5	16QAM	12	0	22.93	22.88	22.86
5	16QAM	12	7	22.89	22.74	22.96
5	16QAM	12	13	22.90	22.79	22.79
5	16QAM	25	0	22.02	21.85	21.88
5	64QAM	1	0	23.12	23.06	23.11
5	64QAM	1	12	23.22	23.08	23.11



5	64QAM	1	24	23.13	23.10	22.97
5	64QAM	12	0	22.93	22.86	22.85
5	64QAM	12	7	22.74	22.70	22.85
5	64QAM	12	13	22.89	22.83	22.78
5	64QAM	25	0	22.90	22.85	22.84
Channel				26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5
3	QPSK	1	0	23.59	23.53	23.44
3	QPSK	1	8	23.64	23.53	23.32
3	QPSK	1	14	23.65	23.38	23.29
3	QPSK	8	0	23.62	23.51	23.40
3	QPSK	8	4	23.52	23.65	23.44
3	QPSK	8	7	23.62	23.46	23.28
3	QPSK	15	0	22.84	22.62	22.39
3	16QAM	1	0	23.29	22.88	22.54
3	16QAM	1	8	23.26	22.90	22.51
3	16QAM	1	14	23.27	22.85	22.35
3	16QAM	8	0	23.29	22.90	22.56
3	16QAM	8	4	22.64	22.99	22.56
3	16QAM	8	7	23.26	22.86	22.35
3	16QAM	15	0	21.93	21.59	21.50
3	64QAM	1	0	23.30	22.91	22.56
3	64QAM	1	8	23.26	22.92	22.51
3	64QAM	1	14	23.26	22.87	22.26
3	64QAM	8	0	23.29	22.92	22.46
3	64QAM	8	4	22.93	22.65	22.43
3	64QAM	8	7	23.25	22.87	22.35
3	64QAM	15	0	21.93	21.60	21.50
Channel				26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3
1.4	QPSK	1	0	23.71	23.67	23.71
1.4	QPSK	1	3	23.81	23.75	23.75
1.4	QPSK	1	5	23.82	23.78	23.72
1.4	QPSK	3	0	23.65	23.67	23.62
1.4	QPSK	3	1	23.34	23.35	23.62
1.4	QPSK	3	3	23.72	23.64	23.57
1.4	QPSK	6	0	22.83	22.80	22.68
1.4	16QAM	1	0	22.77	22.90	22.60



1.4	16QAM	1	3	22.85	22.96	22.62
1.4	16QAM	1	5	22.89	22.99	22.53
1.4	16QAM	3	0	23.66	23.68	23.62
1.4	16QAM	3	1	23.65	23.47	23.19
1.4	16QAM	3	3	23.75	23.63	23.54
1.4	16QAM	6	0	21.95	21.78	21.73
1.4	64QAM	1	0	22.76	22.90	22.62
1.4	64QAM	1	3	22.88	22.97	22.62
1.4	64QAM	1	5	22.89	22.99	22.54
1.4	64QAM	3	0	23.71	23.68	23.63
1.4	64QAM	3	1	22.99	23.42	23.54
1.4	64QAM	3	3	23.78	23.61	23.55
1.4	64QAM	6	0	22.84	22.82	22.71

<FDD LTE Band 66>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	20.07	20.10	19.77
20	QPSK	1	49	20.08	20.16	19.78
20	QPSK	1	99	19.98	19.99	19.68
20	QPSK	50	0	18.96	19.09	18.81
20	QPSK	50	24	18.93	19.06	18.74
20	QPSK	50	50	18.92	18.90	18.77
20	QPSK	100	0	18.92	18.95	18.74
20	16QAM	1	0	19.17	19.31	18.50
20	16QAM	1	49	19.30	19.36	18.52
20	16QAM	1	99	19.14	19.16	18.30
20	16QAM	50	0	18.01	17.98	17.94
20	16QAM	50	24	18.00	17.62	17.90
20	16QAM	50	50	17.97	17.95	17.89
20	16QAM	100	0	18.05	18.03	17.96
20	64QAM	1	0	19.27	19.31	18.50
20	64QAM	1	49	19.31	19.37	18.51
20	64QAM	1	99	19.13	19.25	18.40
20	64QAM	50	0	18.00	17.98	17.94



20	64QAM	50	24	17.62	17.99	17.93
20	64QAM	50	50	17.96	17.94	17.90
20	64QAM	100	0	18.04	18.03	17.95
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	19.96	19.99	19.93
15	QPSK	1	37	19.98	19.90	19.98
15	QPSK	1	74	19.82	19.81	19.85
15	QPSK	36	0	18.80	18.91	18.73
15	QPSK	36	20	18.82	19.11	18.70
15	QPSK	36	39	18.81	18.81	18.74
15	QPSK	75	0	18.80	18.85	18.73
15	16QAM	1	0	19.17	19.16	18.81
15	16QAM	1	37	19.31	19.18	18.87
15	16QAM	1	74	19.18	18.98	18.62
15	16QAM	36	0	18.06	17.96	17.81
15	16QAM	36	20	17.73	17.98	17.77
15	16QAM	36	39	17.98	17.87	17.83
15	16QAM	75	0	17.94	17.95	17.85
15	64QAM	1	0	19.26	19.15	18.81
15	64QAM	1	37	19.31	19.16	18.87
15	64QAM	1	74	19.17	18.98	18.63
15	64QAM	36	0	18.05	17.96	17.89
15	64QAM	36	20	18.06	17.99	17.95
15	64QAM	36	39	17.97	17.86	17.82
15	64QAM	75	0	17.93	17.96	17.85
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	19.95	19.86	19.86
10	QPSK	1	25	19.83	19.80	19.86
10	QPSK	1	49	19.82	19.80	19.82
10	QPSK	25	0	18.95	18.96	18.78
10	QPSK	25	12	18.93	19.01	18.88
10	QPSK	25	25	18.92	18.95	18.74
10	QPSK	50	0	18.98	18.89	18.85
10	16QAM	1	0	19.16	19.10	19.11
10	16QAM	1	25	19.17	19.08	19.04
10	16QAM	1	49	19.18	18.98	18.98



10	16QAM	25	0	18.12	18.04	17.80
10	16QAM	25	12	18.63	17.92	17.74
10	16QAM	25	25	17.96	18.03	17.79
10	16QAM	50	0	18.01	18.04	17.96
10	64QAM	1	0	19.14	19.11	19.11
10	64QAM	1	25	19.17	19.08	19.04
10	64QAM	1	49	19.07	18.98	19.07
10	64QAM	25	0	18.11	18.04	17.80
10	64QAM	25	12	18.62	18.01	17.70
10	64QAM	25	25	18.05	18.04	17.78
10	64QAM	50	0	18.00	17.95	17.95
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	19.80	19.88	19.69
5	QPSK	1	12	20.03	20.03	19.88
5	QPSK	1	24	19.79	19.79	19.63
5	QPSK	12	0	19.01	18.94	18.78
5	QPSK	12	7	19.08	19.15	18.66
5	QPSK	12	13	18.89	18.91	18.70
5	QPSK	25	0	18.93	18.92	18.72
5	16QAM	1	0	19.39	19.04	19.09
5	16QAM	1	12	19.67	19.18	19.29
5	16QAM	1	24	19.40	18.96	19.06
5	16QAM	12	0	17.97	17.99	17.98
5	16QAM	12	7	17.95	17.83	17.89
5	16QAM	12	13	17.97	18.06	17.90
5	16QAM	25	0	17.99	18.01	17.81
5	64QAM	1	0	19.39	19.04	19.22
5	64QAM	1	12	19.54	19.26	19.39
5	64QAM	1	24	19.29	19.06	19.16
5	64QAM	12	0	17.96	18.11	17.88
5	64QAM	12	7	17.82	18.26	17.83
5	64QAM	12	13	17.95	18.05	17.80
5	64QAM	25	0	17.98	18.00	17.81
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	19.79	19.77	19.74
3	QPSK	1	8	19.87	19.89	19.87



3	QPSK	1	14	19.75	19.61	19.78
3	QPSK	8	0	18.96	18.91	18.82
3	QPSK	8	4	18.86	18.75	19.13
3	QPSK	8	7	18.92	18.85	18.80
3	QPSK	15	0	18.94	18.92	18.82
3	16QAM	1	0	19.11	18.93	19.01
3	16QAM	1	8	19.21	19.07	19.05
3	16QAM	1	14	19.10	18.89	18.99
3	16QAM	8	0	18.03	17.97	17.90
3	16QAM	8	4	17.82	17.85	17.96
3	16QAM	8	7	17.99	18.01	17.89
3	16QAM	15	0	17.94	17.93	17.79
3	64QAM	1	0	19.11	18.92	19.02
3	64QAM	1	8	19.10	19.07	19.04
3	64QAM	1	14	19.09	18.89	18.99
3	64QAM	8	0	18.01	17.98	17.88
3	64QAM	8	4	18.09	17.94	17.63
3	64QAM	8	7	18.08	17.90	17.89
3	64QAM	15	0	18.02	17.93	17.88
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	19.68	19.92	19.73
1.4	QPSK	1	3	19.83	19.97	19.93
1.4	QPSK	1	5	19.75	19.92	19.71
1.4	QPSK	3	0	19.82	19.87	19.80
1.4	QPSK	3	1	19.86	19.85	19.83
1.4	QPSK	3	3	19.76	19.81	19.74
1.4	QPSK	6	0	18.89	18.82	18.75
1.4	16QAM	1	0	18.93	19.11	18.74
1.4	16QAM	1	3	19.06	19.24	18.82
1.4	16QAM	1	5	18.99	19.09	18.63
1.4	16QAM	3	0	18.88	18.99	18.97
1.4	16QAM	3	1	18.65	18.74	18.85
1.4	16QAM	3	3	18.76	18.88	18.92
1.4	16QAM	6	0	17.98	17.92	17.90
1.4	64QAM	1	0	18.89	19.09	18.76
1.4	64QAM	1	3	19.03	19.22	18.83
1.4	64QAM	1	5	18.95	19.08	18.74



1.4	64QAM	3	0	18.86	18.97	18.98
1.4	64QAM	3	1	18.79	18.92	18.99
1.4	64QAM	3	3	18.84	18.96	18.93
1.4	64QAM	6	0	17.95	17.90	17.91

<FDD LTE Band 71>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				133222	133322	133372
Frequency (MHz)				673	683	688
20	QPSK	1	0	21.54	22.15	21.58
20	QPSK	1	49	21.93	22.01	21.83
20	QPSK	1	99	21.35	21.46	21.62
20	QPSK	50	0	20.74	20.81	20.74
20	QPSK	50	24	20.79	20.65	20.67
20	QPSK	50	50	20.79	20.89	20.52
20	QPSK	100	0	20.76	20.85	20.88
20	16QAM	1	0	21.44	21.50	21.46
20	16QAM	1	49	21.15	21.05	20.93
20	16QAM	1	99	20.86	20.65	20.54
20	16QAM	50	0	19.84	19.92	19.93
20	16QAM	50	24	19.82	19.83	19.87
20	16QAM	50	50	19.73	19.88	19.76
20	16QAM	100	0	19.82	19.85	19.80
20	64QAM	1	0	21.11	21.24	20.80
20	64QAM	1	49	21.29	20.25	20.76
20	64QAM	1	99	20.90	20.43	20.51
20	64QAM	50	0	19.77	19.91	19.92
20	64QAM	50	24	19.76	19.76	19.75
20	64QAM	50	50	19.80	19.80	19.91
20	64QAM	100	0	19.81	19.88	19.91
Channel				133197	133297	133397
Frequency (MHz)				670.5	680.5	690.5
15	QPSK	1	0	21.53	21.65	21.06
15	QPSK	1	37	21.48	21.79	21.18
15	QPSK	1	74	21.61	21.57	21.09
15	QPSK	36	0	20.85	20.96	20.85



15	QPSK	36	20	20.80	20.90	20.96
15	QPSK	36	39	20.72	20.77	20.74
15	QPSK	75	0	20.77	20.86	20.93
15	16QAM	1	0	20.96	21.50	20.91
15	16QAM	1	37	20.83	21.54	20.95
15	16QAM	1	74	20.85	21.73	20.97
15	16QAM	36	0	20.44	21.03	20.52
15	16QAM	36	20	20.78	20.57	20.86
15	16QAM	36	39	20.39	20.62	20.54
15	16QAM	75	0	20.69	20.74	20.22
15	64QAM	1	0	21.40	21.54	21.24
15	64QAM	1	37	21.10	21.09	21.67
15	64QAM	1	74	21.04	20.91	21.10
15	64QAM	36	0	20.82	20.97	20.34
15	64QAM	36	20	20.93	20.26	20.26
15	64QAM	36	39	20.62	20.97	20.53
15	64QAM	75	0	20.38	21.01	20.51
Channel				133172	133297	133422
Frequency (MHz)				668	680.5	693
10	QPSK	1	0	22.01	22.03	21.94
10	QPSK	1	25	21.94	21.95	21.88
10	QPSK	1	49	21.53	21.66	21.85
10	QPSK	25	0	20.83	20.92	20.96
10	QPSK	25	12	20.98	20.96	21.01
10	QPSK	25	25	20.84	20.75	21.04
10	QPSK	50	0	20.43	20.92	20.91
10	16QAM	1	0	21.54	21.92	21.83
10	16QAM	1	25	21.63	21.86	21.80
10	16QAM	1	49	20.92	21.72	21.76
10	16QAM	25	0	20.30	20.89	20.85
10	16QAM	25	12	20.64	20.49	20.60
10	16QAM	25	25	20.46	20.86	20.88
10	16QAM	50	0	20.72	20.93	20.96
10	64QAM	1	0	20.94	21.12	20.85
10	64QAM	1	25	21.29	21.67	21.32
10	64QAM	1	49	21.42	21.61	21.28
10	64QAM	25	0	20.32	20.88	20.66
10	64QAM	25	12	20.27	20.33	20.24



10	64QAM	25	25	20.29	20.39	20.94
10	64QAM	50	0	20.64	20.61	20.72
Channel				133147	133297	133447
Frequency (MHz)				665.5	680.5	695.5
5	QPSK	1	0	21.75	21.82	21.69
5	QPSK	1	12	21.79	21.80	21.77
5	QPSK	1	24	21.53	21.59	21.67
5	QPSK	12	0	20.64	20.75	20.71
5	QPSK	12	7	20.76	20.70	20.69
5	QPSK	12	13	20.68	20.80	20.72
5	QPSK	25	0	20.52	20.76	20.70
5	16QAM	1	0	21.62	21.73	21.60
5	16QAM	1	12	21.59	21.64	21.54
5	16QAM	1	24	21.40	21.43	21.48
5	16QAM	12	0	20.60	20.72	20.63
5	16QAM	12	7	20.66	20.65	20.67
5	16QAM	12	13	20.68	20.70	20.62
5	16QAM	25	0	20.53	20.62	20.41
5	64QAM	1	0	21.22	21.45	21.49
5	64QAM	1	12	21.13	21.37	21.48
5	64QAM	1	24	20.98	21.39	21.48
5	64QAM	12	0	20.25	20.81	20.61
5	64QAM	12	7	20.45	20.26	20.76
5	64QAM	12	13	20.62	20.64	20.57
5	64QAM	25	0	20.48	20.36	20.96

<TDD LTE Band 38>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	22.74	22.55	22.55
20	QPSK	1	49	22.75	22.64	22.78
20	QPSK	1	99	22.45	22.74	22.82
20	QPSK	50	0	21.93	21.55	21.80
20	QPSK	50	24	21.74	21.85	21.62
20	QPSK	50	50	21.65	21.61	21.87



20	QPSK	100	0	21.88	21.61	21.87
20	16QAM	1	0	21.73	21.90	21.68
20	16QAM	1	49	21.58	21.80	21.81
20	16QAM	1	99	21.40	21.90	21.79
20	16QAM	50	0	21.07	20.70	20.90
20	16QAM	50	24	21.00	20.74	20.84
20	16QAM	50	50	20.87	20.86	20.99
20	16QAM	100	0	20.93	20.67	20.94
20	64QAM	1	0	21.71	21.82	21.70
20	64QAM	1	49	21.56	21.71	21.83
20	64QAM	1	99	21.38	21.91	21.80
20	64QAM	50	0	21.04	20.60	20.90
20	64QAM	50	24	21.06	21.54	20.98
20	64QAM	50	50	20.86	20.77	20.98
20	64QAM	100	0	20.91	20.69	20.92
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	22.62	22.67	22.71
15	QPSK	1	37	22.71	22.60	22.84
15	QPSK	1	74	22.76	22.63	22.79
15	QPSK	36	0	22.69	22.64	22.67
15	QPSK	36	20	22.64	22.68	22.66
15	QPSK	36	39	22.75	22.50	22.77
15	QPSK	75	0	21.77	21.53	21.91
15	16QAM	1	0	22.04	21.58	21.56
15	16QAM	1	37	22.15	21.65	21.77
15	16QAM	1	74	22.20	21.66	21.73
15	16QAM	36	0	22.05	21.58	21.57
15	16QAM	36	20	22.14	22.06	21.59
15	16QAM	36	39	22.21	21.56	21.63
15	16QAM	75	0	20.92	20.61	21.09
15	64QAM	1	0	22.15	21.57	21.57
15	64QAM	1	37	22.16	21.64	21.68
15	64QAM	1	74	22.11	21.56	21.65
15	64QAM	36	0	22.16	21.57	21.58
15	64QAM	36	20	22.16	21.55	21.52
15	64QAM	36	39	22.12	21.66	21.65
15	64QAM	75	0	20.92	20.60	21.00



Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	22.95	22.53	22.82
10	QPSK	1	25	22.97	22.45	22.76
10	QPSK	1	49	22.95	22.66	22.91
10	QPSK	25	0	21.88	21.44	21.93
10	QPSK	25	12	21.84	21.43	21.89
10	QPSK	25	25	21.94	21.55	21.95
10	QPSK	50	0	22.01	21.48	21.88
10	16QAM	1	0	22.42	22.07	21.97
10	16QAM	1	25	22.45	22.02	21.93
10	16QAM	1	49	22.54	22.12	21.97
10	16QAM	25	0	21.88	21.57	21.92
10	16QAM	25	12	21.84	21.53	21.62
10	16QAM	25	25	21.94	21.56	21.94
10	16QAM	50	0	21.06	20.67	20.87
10	64QAM	1	0	22.43	21.98	21.86
10	64QAM	1	25	22.46	21.93	21.90
10	64QAM	1	49	22.55	22.13	21.94
10	64QAM	25	0	21.88	21.45	21.89
10	64QAM	25	12	21.92	21.52	21.83
10	64QAM	25	25	21.94	21.57	21.91
10	64QAM	50	0	21.91	21.50	21.95
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	22.62	22.67	22.71
5	QPSK	1	12	22.71	22.60	22.84
5	QPSK	1	24	22.76	22.63	22.79
5	QPSK	12	0	22.69	22.64	22.67
5	QPSK	12	7	22.64	22.52	22.63
5	QPSK	12	13	22.75	22.50	22.77
5	QPSK	25	0	21.77	21.53	21.91
5	16QAM	1	0	22.04	21.58	21.56
5	16QAM	1	12	22.15	21.65	21.77
5	16QAM	1	24	22.20	21.66	21.73
5	16QAM	12	0	22.05	21.58	21.57
5	16QAM	12	7	22.26	21.52	21.59
5	16QAM	12	13	22.21	21.56	21.63



5	16QAM	25	0	20.92	20.61	21.09
5	64QAM	1	0	22.15	21.57	21.57
5	64QAM	1	12	22.16	21.64	21.68
5	64QAM	1	24	22.11	21.56	21.65
5	64QAM	12	0	22.16	21.57	21.58
5	64QAM	12	7	22.18	21.86	21.54
5	64QAM	12	13	22.12	21.66	21.65
5	64QAM	25	0	20.92	20.60	21.00

<TDD LTE Band 40>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				38750	39150	39550
Frequency (MHz)				2310	2350	2390
20	QPSK	1	0	23.33	23.20	22.85
20	QPSK	1	49	23.30	23.21	22.90
20	QPSK	1	99	23.41	23.19	22.95
20	QPSK	50	0	22.42	22.30	22.04
20	QPSK	50	24	22.32	22.39	22.06
20	QPSK	50	50	22.37	22.13	22.10
20	QPSK	100	0	22.38	22.15	22.00
20	16QAM	1	0	22.06	22.56	21.87
20	16QAM	1	49	22.18	22.27	21.93
20	16QAM	1	99	22.06	22.24	22.00
20	16QAM	50	0	21.62	21.45	21.13
20	16QAM	50	24	21.63	21.52	21.18
20	16QAM	50	50	21.48	21.27	21.20
20	16QAM	100	0	21.43	21.22	21.16
20	64QAM	1	0	22.06	22.56	21.88
20	64QAM	1	49	22.17	22.37	21.94
20	64QAM	1	99	22.15	22.23	22.01
20	64QAM	50	0	21.52	21.45	21.13
20	64QAM	50	24	21.49	21.29	21.19
20	64QAM	50	50	21.48	21.27	21.21
20	64QAM	100	0	21.43	21.23	21.17
Channel				38725	39150	39575
Frequency (MHz)				2307.5	2350	2392.5



15	QPSK	1	0	23.35	23.31	22.76
15	QPSK	1	37	23.38	23.07	22.85
15	QPSK	1	74	23.38	23.09	22.91
15	QPSK	36	0	22.40	22.27	21.98
15	QPSK	36	20	22.43	22.25	22.73
15	QPSK	36	39	22.48	22.21	22.10
15	QPSK	75	0	22.44	22.17	22.04
15	16QAM	1	0	22.83	22.77	22.15
15	16QAM	1	37	22.87	22.54	22.26
15	16QAM	1	74	22.89	22.56	22.33
15	16QAM	36	0	21.35	21.29	21.12
15	16QAM	36	20	21.39	21.56	21.26
15	16QAM	36	39	21.44	21.23	21.14
15	16QAM	75	0	21.50	21.28	21.08
15	64QAM	1	0	22.82	22.86	22.16
15	64QAM	1	37	22.87	22.54	22.27
15	64QAM	1	74	22.99	22.56	22.24
15	64QAM	36	0	21.35	21.30	21.12
15	64QAM	36	20	21.33	21.36	21.15
15	64QAM	36	39	21.44	21.23	21.15
15	64QAM	75	0	21.59	21.28	21.08
Channel				38700	39150	39600
Frequency (MHz)				2305	2350	2395
10	QPSK	1	0	23.35	23.14	22.87
10	QPSK	1	25	23.34	23.09	22.99
10	QPSK	1	49	23.49	23.13	22.89
10	QPSK	25	0	22.41	22.15	22.00
10	QPSK	25	12	21.52	22.13	22.54
10	QPSK	25	25	22.50	22.11	22.14
10	QPSK	50	0	22.44	22.16	22.07
10	16QAM	1	0	22.80	22.67	22.04
10	16QAM	1	25	22.91	22.55	21.98
10	16QAM	1	49	22.88	22.49	21.97
10	16QAM	25	0	22.49	22.15	22.00
10	16QAM	25	12	22.39	22.36	22.15
10	16QAM	25	25	22.49	22.20	22.15
10	16QAM	50	0	21.49	21.25	21.09
10	64QAM	1	0	22.82	22.59	21.95



10	64QAM	1	25	22.82	22.55	21.98
10	64QAM	1	49	22.88	22.49	21.97
10	64QAM	25	0	22.39	22.16	22.00
10	64QAM	25	12	22.36	22.54	22.43
10	64QAM	25	25	22.49	22.11	22.14
10	64QAM	50	0	22.42	22.16	22.06
Channel				38675	39150	39625
Frequency (MHz)				2302.5	2350	2397.5
5	QPSK	1	0	23.04	23.19	23.03
5	QPSK	1	12	23.19	23.11	23.05
5	QPSK	1	24	23.19	23.11	23.04
5	QPSK	12	0	23.11	23.17	23.02
5	QPSK	12	7	23.09	23.19	23.03
5	QPSK	12	13	23.19	23.10	23.04
5	QPSK	25	0	22.31	22.12	22.16
5	16QAM	1	0	21.88	22.44	21.96
5	16QAM	1	12	22.07	22.45	22.02
5	16QAM	1	24	22.07	22.43	22.02
5	16QAM	12	0	21.97	22.45	21.96
5	16QAM	12	7	21.95	22.38	22.01
5	16QAM	12	13	22.08	22.43	22.02
5	16QAM	25	0	21.50	21.26	21.17
5	64QAM	1	0	21.88	22.54	22.06
5	64QAM	1	12	22.08	22.46	22.02
5	64QAM	1	24	22.08	22.35	22.02
5	64QAM	12	0	21.88	22.45	22.06
5	64QAM	12	7	21.84	22.43	22.00
5	64QAM	12	13	22.08	22.46	22.02
5	64QAM	25	0	21.49	21.27	21.17

<FDD LTE Band 41>

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	25.76	25.23	27.42
20	QPSK	1	49	25.99	25.05	25.84



20	QPSK	1	99	26.08	25.28	27.58
20	QPSK	50	0	24.95	24.09	24.93
20	QPSK	50	24	24.92	24.16	24.82
20	QPSK	50	50	25.20	24.13	24.97
20	QPSK	100	0	25.10	24.09	24.94
20	16QAM	1	0	24.68	24.37	26.51
20	16QAM	1	49	24.97	24.31	24.81
20	16QAM	1	99	25.09	24.43	26.61
20	16QAM	50	0	24.24	23.23	24.01
20	16QAM	50	24	24.39	23.33	24.09
20	16QAM	50	50	24.42	23.38	24.07
20	16QAM	100	0	24.25	23.25	24.20
20	64QAM	1	0	24.68	24.39	25.83
20	64QAM	1	49	24.96	24.31	24.91
20	64QAM	1	99	25.08	24.43	24.92
20	64QAM	50	0	24.13	23.23	24.21
20	64QAM	50	24	24.19	23.59	24.39
20	64QAM	50	50	24.30	23.27	24.06
20	64QAM	100	0	24.23	23.15	23.99
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	26.01	25.22	25.77
15	QPSK	1	37	26.16	25.04	25.65
15	QPSK	1	74	26.34	25.06	25.60
15	QPSK	36	0	24.95	23.99	24.89
15	QPSK	36	20	24.96	23.89	24.93
15	QPSK	36	39	25.25	24.15	24.82
15	QPSK	75	0	25.03	24.17	24.92
15	16QAM	1	0	25.49	24.66	25.11
15	16QAM	1	37	25.69	24.50	25.16
15	16QAM	1	74	25.82	24.63	25.08
15	16QAM	36	0	23.95	23.11	23.92
15	16QAM	36	20	23.96	23.16	23.95
15	16QAM	36	39	24.18	23.16	23.96
15	16QAM	75	0	24.18	23.27	23.94
15	64QAM	1	0	25.47	24.68	25.12
15	64QAM	1	37	25.78	24.61	25.12
15	64QAM	1	74	25.90	24.54	25.07



15	64QAM	36	0	23.93	23.11	24.02
15	64QAM	36	20	23.89	23.14	24.09
15	64QAM	36	39	24.16	23.17	23.96
15	64QAM	75	0	24.17	23.16	23.94
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	25.89	25.08	26.33
10	QPSK	1	25	25.99	24.99	25.69
10	QPSK	1	49	26.13	25.21	26.34
10	QPSK	25	0	24.90	23.98	24.96
10	QPSK	25	12	24.96	23.99	24.94
10	QPSK	25	25	25.03	24.03	24.98
10	QPSK	50	0	25.00	23.95	25.02
10	16QAM	1	0	25.49	24.51	25.56
10	16QAM	1	25	25.63	24.45	24.95
10	16QAM	1	49	25.78	24.67	25.39
10	16QAM	25	0	24.86	23.88	24.95
10	16QAM	25	12	24.86	23.84	24.95
10	16QAM	25	25	25.20	24.02	25.07
10	16QAM	50	0	24.12	23.12	24.02
10	64QAM	1	0	25.47	24.52	25.56
10	64QAM	1	25	25.61	24.56	25.05
10	64QAM	1	49	25.85	24.57	25.57
10	64QAM	25	0	24.94	23.99	24.95
10	64QAM	25	12	24.93	24.05	24.96
10	64QAM	25	25	25.07	24.04	24.96
10	64QAM	50	0	25.04	23.94	25.00
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	25.64	24.88	25.82
5	QPSK	1	12	25.76	25.17	25.91
5	QPSK	1	24	25.92	25.13	25.73
5	QPSK	12	0	25.59	24.94	25.86
5	QPSK	12	7	25.82	25.00	25.89
5	QPSK	12	13	25.91	25.01	25.82
5	QPSK	25	0	24.90	24.08	24.74
5	16QAM	1	0	24.40	24.40	24.90
5	16QAM	1	12	24.67	24.49	24.97



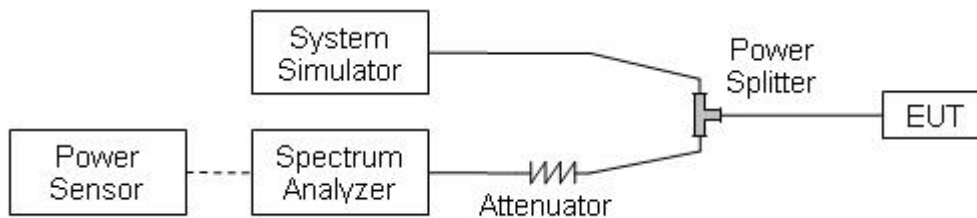
5	16QAM	1	24	24.65	24.47	24.88
5	16QAM	12	0	24.59	24.50	24.79
5	16QAM	12	7	24.57	24.86	24.76
5	16QAM	12	13	24.77	24.47	24.88
5	16QAM	25	0	24.07	23.20	23.83
5	64QAM	1	0	24.49	24.30	24.80
5	64QAM	1	12	24.76	24.49	24.85
5	64QAM	1	24	24.63	24.47	24.77
5	64QAM	12	0	24.38	24.29	24.88
5	64QAM	12	7	24.39	24.52	24.87
5	64QAM	12	13	24.63	24.46	24.77
5	64QAM	25	0	24.05	23.20	23.83

2.2. Occupied Bandwidth

2.2.1. Requirement

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

2.2.2. Test Description



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

2.2.3. Test procedure

KDB 971168 D01 v03r01r01 Section 4.1 and ANSI/TIA-603-E-2016.



2.2.4. Test Result

LTE Band 2							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.088	1.229	1.090	1.239	1.094	1.218
	16QAM	1.096	1.242	1.091	1.220	1.086	1.216
	64QAM	1.095	1.233	1.092	1.233	1.086	1.222
3	QPSK	2.718	3.011	2.696	3.009	2.710	3.008
	16QAM	2.691	3.007	2.710	3.004	2.708	3.007
	64QAM	2.689	2.996	2.708	2.989	2.705	3.009
5	QPSK	4.506	5.002	4.494	4.953	4.511	4.981
	16QAM	4.495	4.983	4.502	4.966	4.507	4.960
	64QAM	4.495	4.966	4.501	4.961	4.521	4.973
10	QPSK	9.000	9.711	8.938	9.743	8.951	9.824
	16QAM	8.978	9.778	8.952	9.822	8.981	9.758
	64QAM	8.979	9.764	8.957	9.791	8.967	9.728
15	QPSK	13.464	14.572	13.449	14.571	13.458	14.496
	16QAM	13.418	14.621	13.429	14.504	13.472	14.595
	64QAM	13.444	14.416	13.452	14.583	13.489	14.468
20	QPSK	17.906	19.350	17.898	19.540	17.968	19.455
	16QAM	17.883	19.285	17.930	19.397	18.000	19.637
	64QAM	17.907	19.269	17.910	19.356	17.951	19.314

LTE Band 4							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.096	1.238	1.088	1.238	1.092	1.222
	16QAM	1.086	1.219	1.092	1.235	1.087	1.228
	64QAM	1.084	1.208	1.091	1.240	1.095	1.233
3	QPSK	2.708	3.032	2.715	3.027	2.701	3.004
	16QAM	2.707	2.987	2.692	2.975	2.708	3.000
	64QAM	2.700	2.993	2.694	2.993	2.713	2.999



5	QPSK	4.509	4.964	4.496	5.005	4.508	4.961
	16QAM	4.511	4.955	4.494	4.978	4.504	4.952
	64QAM	4.519	4.988	4.494	4.972	4.497	4.997
10	QPSK	9.009	9.729	8.981	9.804	8.976	9.754
	16QAM	8.980	9.747	8.958	9.740	8.979	9.662
	64QAM	8.973	9.825	8.963	9.807	8.967	9.810
15	QPSK	13.464	14.457	13.424	14.757	13.452	14.509
	16QAM	13.455	14.557	13.433	14.511	13.458	14.533
	64QAM	13.474	14.628	13.434	14.532	13.420	14.542
20	QPSK	17.938	19.404	17.976	19.391	17.898	19.514
	16QAM	17.949	19.391	17.903	19.245	17.925	19.434
	64QAM	17.923	19.380	17.923	19.331	17.928	19.242

LTE Band 5							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.090	1.231	1.095	1.228	1.094	1.250
	16QAM	1.096	1.223	1.094	1.240	1.086	1.218
	64QAM	1.094	1.223	1.093	1.233	1.089	1.216
3	QPSK	2.715	3.016	2.694	3.018	2.705	3.030
	16QAM	2.692	3.012	2.700	3.006	2.709	2.980
	64QAM	2.693	2.992	2.708	3.015	2.707	3.001
5	QPSK	4.494	4.972	4.493	4.956	4.499	4.966
	16QAM	4.494	4.975	4.498	4.976	4.503	4.941
	64QAM	4.494	4.951	4.506	4.992	4.508	4.958
10	QPSK	9.007	9.800	8.982	9.708	8.974	9.803
	16QAM	8.968	9.698	8.986	9.722	8.952	9.820
	64QAM	8.970	9.626	8.976	9.768	8.968	9.739



LTE Band 7							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.498	4.982	4.496	4.941	4.509	4.973
	16QAM	4.497	4.980	4.502	4.985	4.515	4.972
	64QAM	4.488	4.996	4.501	4.985	4.508	4.949
10	QPSK	8.988	9.742	8.962	9.671	8.967	9.704
	16QAM	8.951	9.643	8.953	9.702	8.995	9.683
	64QAM	8.964	9.797	8.961	9.748	8.957	9.725
15	QPSK	13.446	14.666	13.418	14.726	13.447	14.583
	16QAM	13.483	14.476	13.460	14.551	13.434	14.593
	64QAM	13.493	14.512	13.438	14.523	13.433	14.370
20	QPSK	17.959	19.411	17.940	19.415	17.873	19.315
	16QAM	17.919	19.083	17.925	19.209	17.906	19.323
	64QAM	17.962	19.138	17.939	19.397	17.895	19.350

LTE Band 12							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.089	1.225	1.096	1.235	1.094	1.239
	16QAM	1.089	1.231	1.091	1.231	1.087	1.212
	64QAM	1.089	1.240	1.091	1.230	1.091	1.215
3	QPSK	2.712	3.006	2.695	3.014	2.709	3.019
	16QAM	2.694	2.987	2.708	3.001	2.703	2.993
	64QAM	2.694	2.996	2.711	2.999	2.705	2.990
5	QPSK	4.500	5.001	4.504	4.943	4.511	4.999
	16QAM	4.494	4.979	4.502	4.977	4.505	4.967
	64QAM	4.492	4.966	4.503	4.947	4.509	4.959
10	QPSK	8.991	9.609	8.934	9.702	8.973	9.778
	16QAM	8.948	9.725	8.967	9.737	8.951	9.732
	64QAM	8.954	9.654	8.965	9.777	8.978	9.737



LTE Band 13							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.488	4.972	4.503	4.954	4.503	4.990
	16QAM	4.487	4.956	4.511	4.946	4.508	4.959
	64QAM	4.483	4.956	4.499	4.997	4.511	4.967
10	QPSK	/	/	9.003	9.772	/	/
	16QAM	/	/	8.959	9.738	/	/
	64QAM	/	/	8.961	9.731	/	/

LTE Band 14							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.496	4.980	4.503	4.972	4.500	4.975
	16QAM	4.501	4.963	4.497	4.977	4.514	4.978
	64QAM	4.496	4.994	4.507	4.992	4.500	4.951
10	QPSK	/	/	8.992	9.762	/	/
	16QAM	/	/	8.964	9.712	/	/
	64QAM	/	/	8.964	9.736	/	/

LTE Band 17							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.497	4.968	4.502	4.962	4.518	4.991
	16QAM	4.488	4.974	4.504	4.948	4.503	4.980
	64QAM	4.493	5.012	4.503	4.980	4.515	4.983
10	QPSK	8.973	9.710	8.984	9.752	8.980	9.762
	16QAM	8.993	9.655	8.969	9.753	8.986	9.825
	64QAM	8.967	9.737	8.975	9.813	9.017	9.679



LTE Band 25							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.084	1.231	1.096	1.238	1.096	1.229
	16QAM	1.091	1.228	1.095	1.233	1.089	1.219
	64QAM	1.089	1.237	1.091	1.234	1.086	1.217
3	QPSK	2.715	3.018	2.695	3.026	2.707	2.994
	16QAM	2.693	3.002	2.704	3.006	2.704	2.995
	64QAM	2.694	3.003	2.707	3.014	2.703	2.994
5	QPSK	4.500	5.000	4.504	4.976	4.503	4.990
	16QAM	4.492	4.964	4.498	4.971	4.505	4.946
	64QAM	4.493	4.971	4.497	4.988	4.511	4.952
10	QPSK	9.019	9.759	8.969	9.708	8.956	9.758
	16QAM	8.962	9.697	8.985	9.722	8.965	9.708
	64QAM	8.982	9.727	8.959	9.738	9.018	9.779
15	QPSK	13.432	14.613	13.476	14.557	13.440	14.473
	16QAM	13.406	14.429	13.439	14.513	13.452	14.597
	64QAM	13.448	14.575	13.422	14.506	13.446	14.549
20	QPSK	17.912	19.362	17.991	19.609	17.954	19.519
	16QAM	17.932	19.424	17.919	19.360	17.946	19.509
	64QAM	17.926	19.419	17.983	19.417	17.991	19.416

LTE Band 26							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.086	1.224	1.096	1.227	1.098	1.240
	16QAM	1.093	1.238	1.096	1.232	1.086	1.222
	64QAM	1.093	1.218	1.095	1.231	1.088	1.217
3	QPSK	2.713	3.013	2.701	3.022	2.706	3.008
	16QAM	2.694	2.973	2.708	3.013	2.698	2.995
	64QAM	2.695	3.009	2.707	3.010	2.708	2.989
5	QPSK	4.498	4.974	4.500	4.975	4.507	4.993
	16QAM	4.495	4.967	4.503	4.994	4.501	4.950



	64QAM	4.487	4.986	4.503	5.000	4.515	4.964
10	QPSK	8.984	9.741	8.952	9.748	8.997	9.799
	16QAM	8.966	9.735	8.971	9.756	8.975	9.707
	64QAM	8.953	9.765	8.943	9.734	8.975	9.663
15	QPSK	13.432	14.690	13.457	14.448	13.480	14.507
	16QAM	13.472	14.579	13.403	14.663	13.459	14.704
	64QAM	13.471	14.589	13.410	14.528	13.437	14.564

LTE Band 38							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.488	4.921	4.493	4.982	4.511	4.990
	16QAM	4.499	4.945	4.496	4.942	4.504	4.969
	64QAM	4.490	4.933	4.500	4.962	4.508	4.967
10	QPSK	8.966	9.651	8.956	9.791	8.951	9.878
	16QAM	8.984	9.701	8.948	9.677	8.954	9.646
	64QAM	8.950	9.758	8.962	9.724	8.935	9.835
15	QPSK	13.402	14.427	13.502	14.575	13.483	14.549
	16QAM	13.425	14.455	13.465	14.455	13.458	14.408
	64QAM	13.451	14.613	13.478	14.287	13.452	14.460
20	QPSK	17.912	19.324	17.847	19.355	17.925	19.305
	16QAM	17.835	19.189	17.975	19.221	17.935	19.359
	64QAM	17.881	19.317	17.942	19.327	17.883	19.299



LTE Band 40							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.497	4.950	4.493	5.041	4.527	5.015
	16QAM	4.504	4.940	4.499	5.079	4.512	5.111
	64QAM	4.497	4.947	4.499	5.081	4.494	5.069
10	QPSK	8.946	9.613	8.945	9.594	8.965	9.746
	16QAM	8.977	9.589	8.964	9.620	8.953	9.731
	64QAM	8.957	9.588	8.942	9.692	8.941	9.752
15	QPSK	13.452	14.436	13.458	14.414	13.416	14.513
	16QAM	13.486	14.565	13.382	14.548	13.455	14.294
	64QAM	13.473	14.428	13.431	14.486	13.441	14.493
20	QPSK	17.894	19.225	17.915	19.208	17.954	19.328
	16QAM	17.893	19.139	17.918	19.423	17.968	19.361
	64QAM	18.000	19.142	17.941	19.139	17.990	19.207

LTE Band 41							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.487	5.050	4.503	4.955	4.519	4.987
	16QAM	4.492	5.036	4.501	4.928	4.506	5.066
	64QAM	4.501	5.121	4.489	4.960	4.510	5.179
10	QPSK	8.974	9.734	8.929	9.680	8.951	9.707
	16QAM	8.967	9.657	8.982	9.605	8.919	9.722
	64QAM	8.986	9.645	8.962	9.655	8.963	9.514
15	QPSK	13.472	14.573	13.469	14.532	13.422	14.442
	16QAM	13.522	14.578	13.402	14.516	13.456	14.493
	64QAM	13.431	14.374	13.422	14.572	13.436	14.527
20	QPSK	17.905	19.203	17.882	19.206	17.825	19.058
	16QAM	17.900	19.093	17.930	19.270	17.809	19.096
	64QAM	17.928	19.249	17.870	19.080	17.922	19.124



LTE Band 66							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
1.4	QPSK	1.093	1.238	1.092	1.238	1.091	1.236
	16QAM	1.088	1.226	1.095	1.240	1.092	1.227
	64QAM	1.087	1.227	1.093	1.236	1.096	1.250
3	QPSK	2.709	2.988	2.716	3.013	2.709	3.014
	16QAM	2.702	3.019	2.702	3.009	2.704	3.023
	64QAM	2.698	2.976	2.701	3.003	2.704	3.004
5	QPSK	4.522	4.968	4.512	4.969	4.499	4.962
	16QAM	4.501	4.956	4.512	4.984	4.515	4.979
	64QAM	4.504	4.942	4.528	4.983	4.521	4.984
10	QPSK	8.988	9.757	8.965	9.724	8.979	9.724
	16QAM	8.964	9.741	8.994	9.671	8.990	9.749
	64QAM	8.969	9.791	8.974	9.863	8.964	9.740
15	QPSK	13.466	14.626	13.445	14.623	13.467	14.633
	16QAM	13.480	14.435	13.463	14.480	13.468	14.508
	64QAM	13.454	14.501	13.469	14.521	13.417	14.516
20	QPSK	17.925	19.387	17.909	19.505	17.945	19.454
	16QAM	17.947	19.438	17.993	19.341	17.929	19.368
	64QAM	18.023	19.419	17.897	19.195	17.995	19.382

LTE Band 71							
BW	Modulation	Low Channel		Middle Channel		High Channel	
		OBW	26dB BW	OBW	26dB BW	OBW	26dB BW
MHz		MHz	MHz	MHz	MHz	MHz	MHz
5	QPSK	4.512	5.062	4.525	5.076	4.528	5.108
	16QAM	4.514	5.048	4.507	5.008	4.505	4.994
	64QAM	4.517	5.068	4.510	4.991	4.505	4.893
10	QPSK	8.989	9.917	8.972	9.974	8.990	10.060
	16QAM	8.971	9.997	8.964	9.665	9.015	10.860
	64QAM	8.978	10.090	8.937	9.726	9.003	10.470
15	QPSK	13.432	14.860	13.542	15.110	13.436	14.810
	16QAM	13.455	14.780	13.490	14.900	13.440	14.890



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	64QAM	13.436	14.670	13.518	14.990	13.425	14.850
20	QPSK	17.962	19.900	17.999	20.050	17.941	19.510
	16QAM	17.927	19.590	17.955	19.480	17.943	19.520
	64QAM	17.945	19.330	17.946	19.630	17.993	19.480

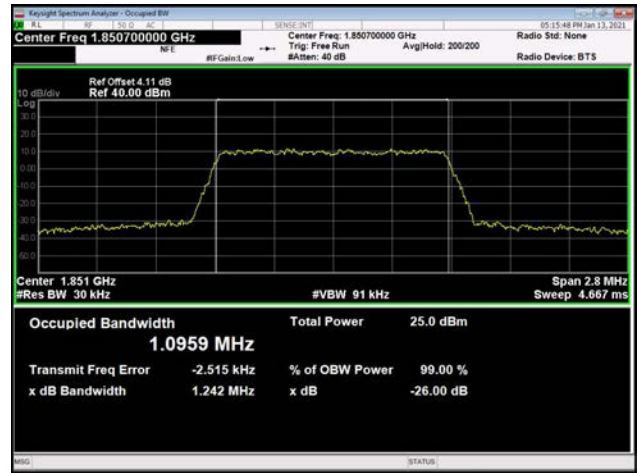


LTE Band 2 _ 99% Bandwidth & 26dB Bandwidth

1.4MHz / QPSK / Low Channel



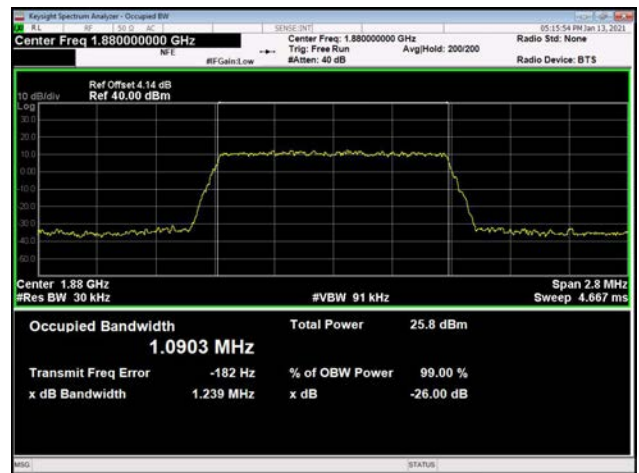
1.4MHz / 16QAM / Low Channel



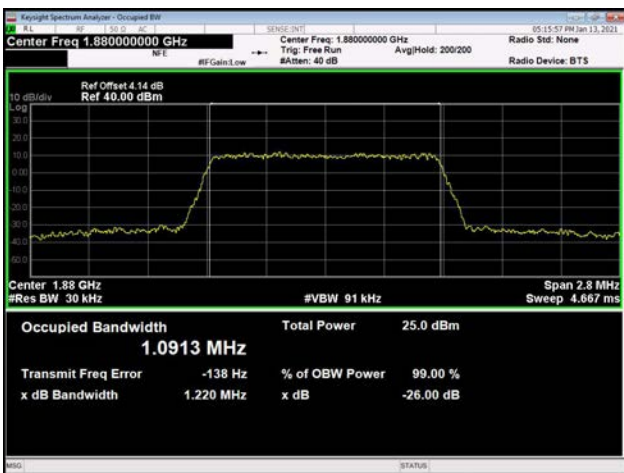
1.4MHz / 64QAM / Low Channel



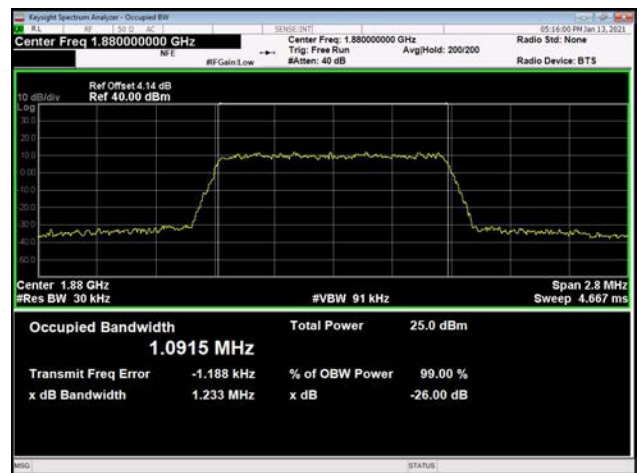
1.4MHz / QPSK / Middle Channel



1.4MHz / 16QAM / Middle Channel

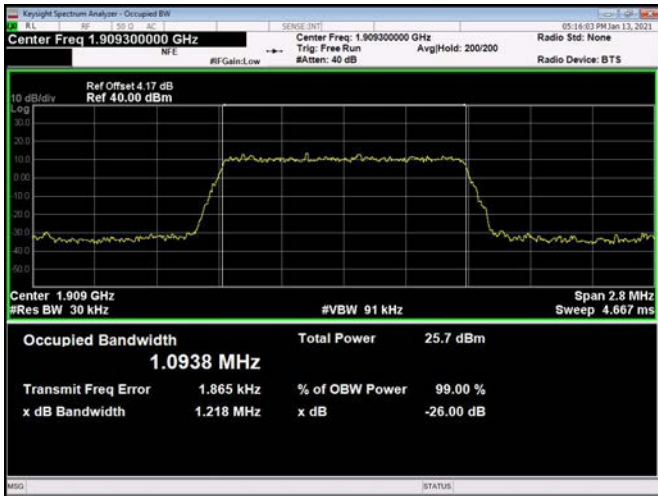


1.4MHz / 64QAM / Middle Channel

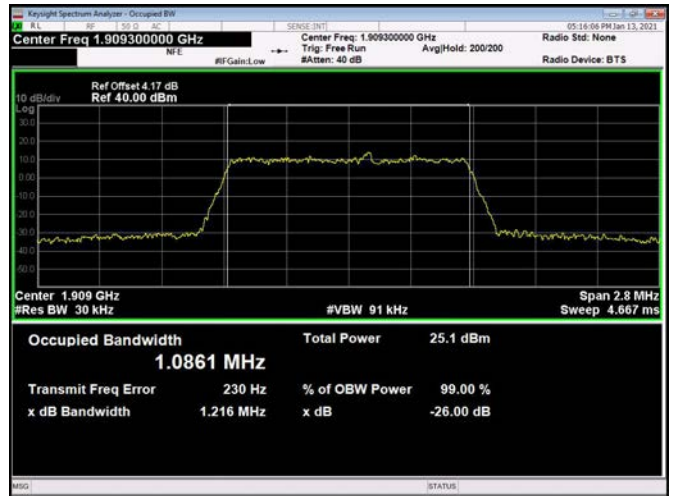




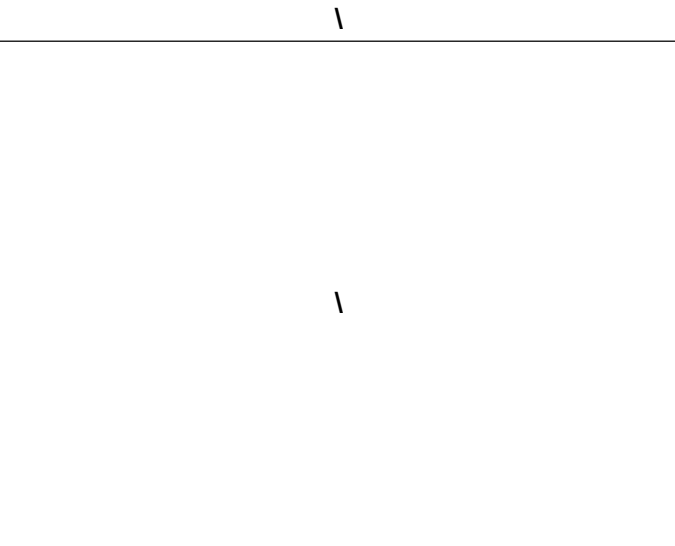
1.4MHz / QPSK / High Channel



1.4MHz / 16QAM / High Channel



1.4MHz / 64QAM / High Channel



3MHz / QPSK / Low Channel

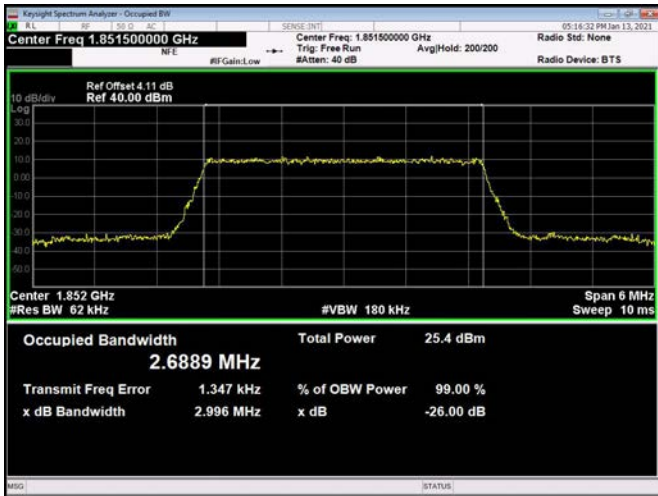


3MHz / 16QAM / Low Channel

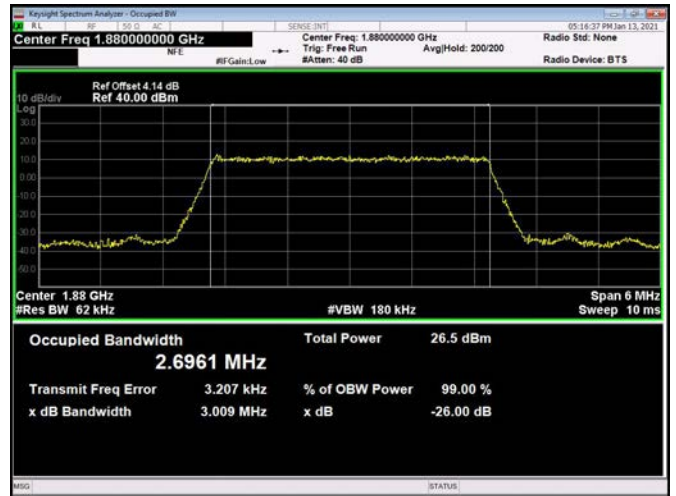




3MHz / 64QAM / Low Channel



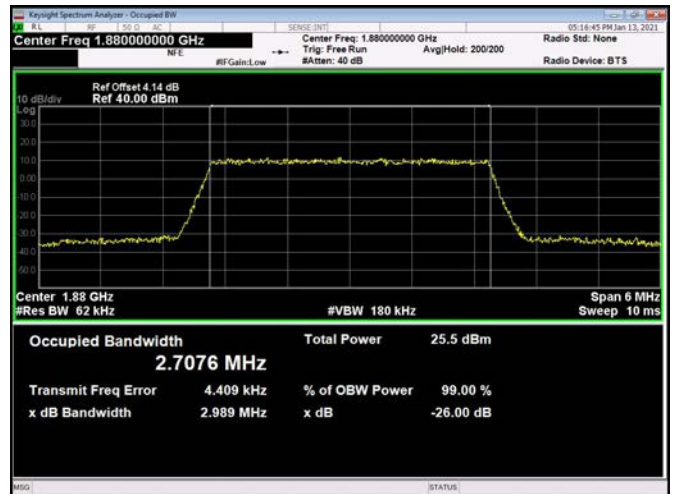
3MHz / QPSK / Middle Channel



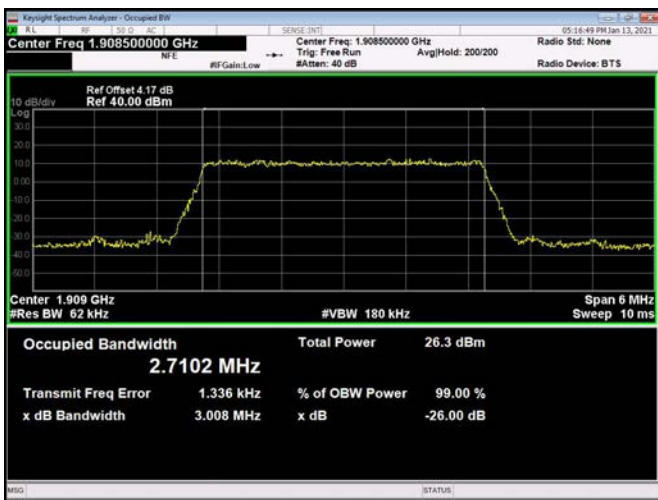
3MHz / 16QAM / Middle Channel



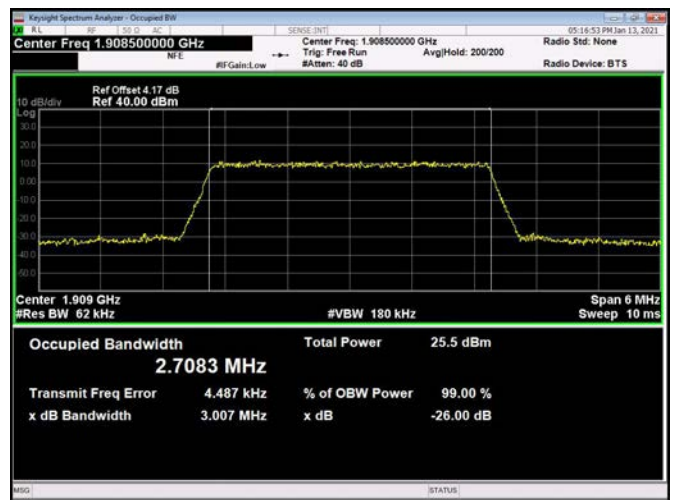
3MHz / 64QAM / Middle Channel



3MHz / QPSK / High Channel

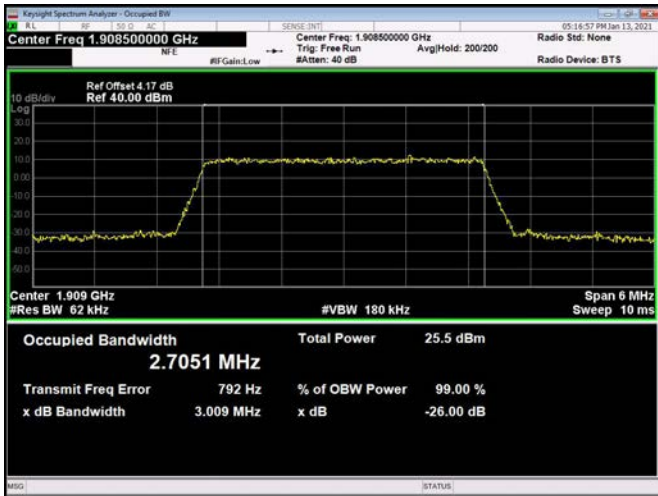


3MHz / 16QAM / High Channel





3MHz / 64QAM / High Channel



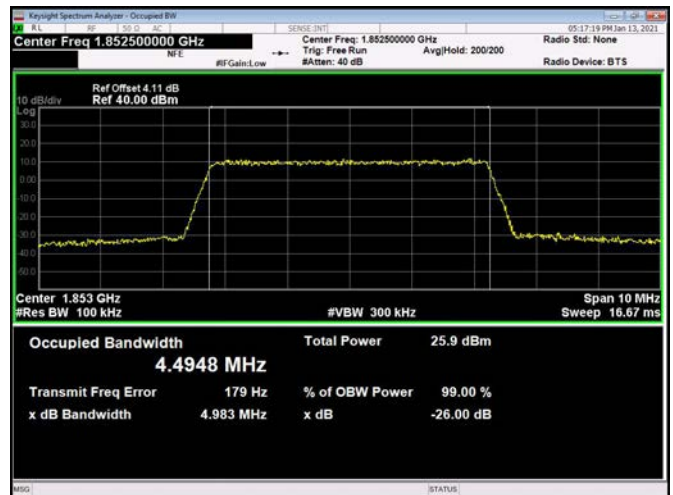
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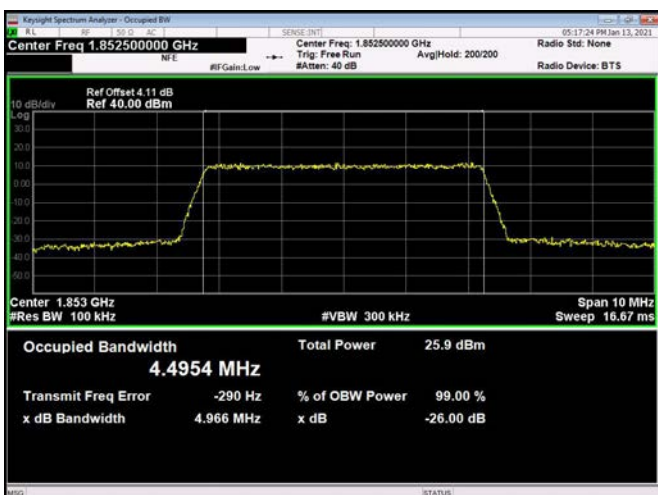
5MHz / QPSK / Low Channel



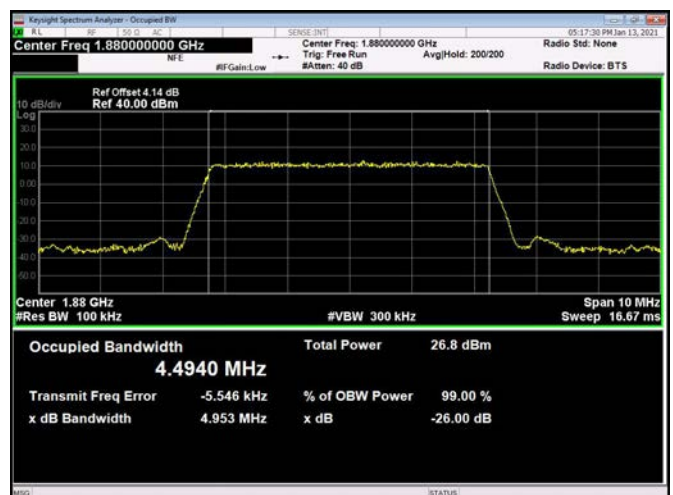
5MHz / 16QAM / Low Channel



5MHz / 64QAM / Low Channel



5MHz / QPSK / Middle Channel

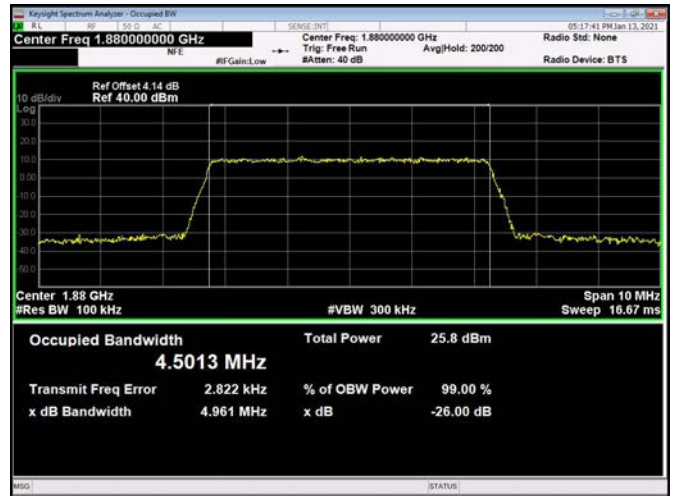




5MHz / 16QAM / Middle Channel



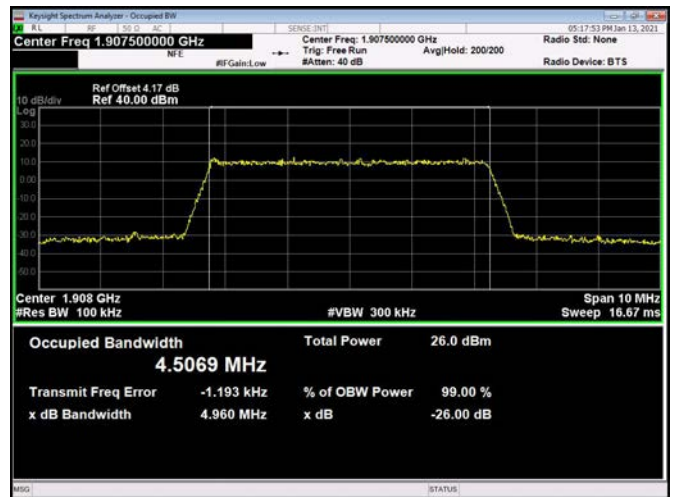
5MHz / 64QAM / Middle Channel



5MHz / QPSK / High Channel



5MHz / 16QAM / High Channel

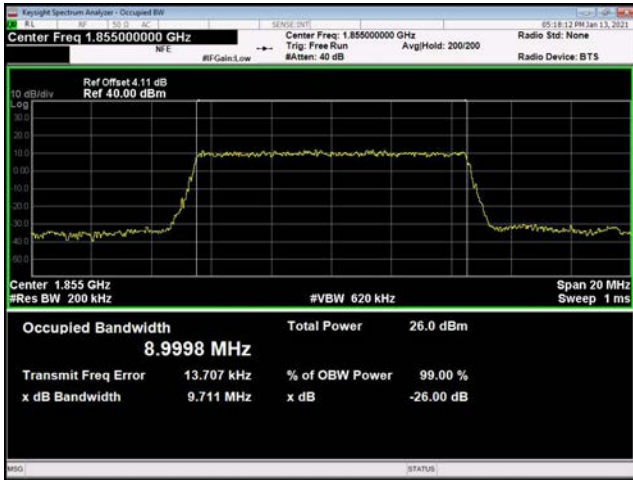


5MHz / 64QAM / High Channel

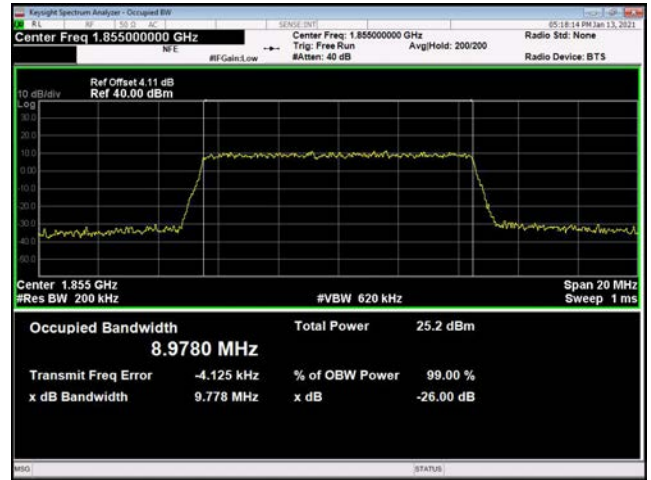




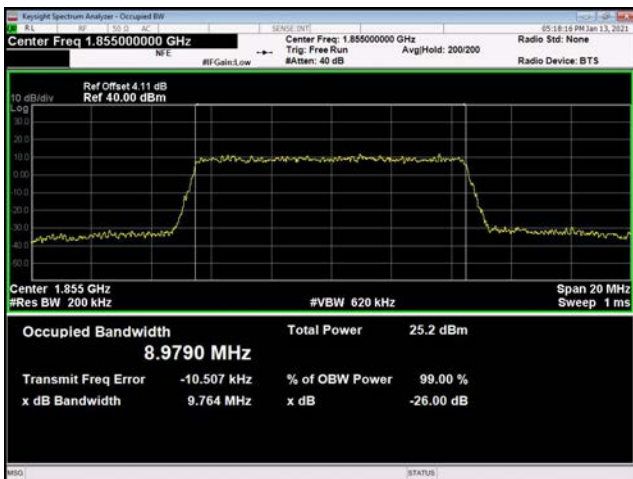
10MHz / QPSK / Low Channel



10MHz / 16QAM / Low Channel



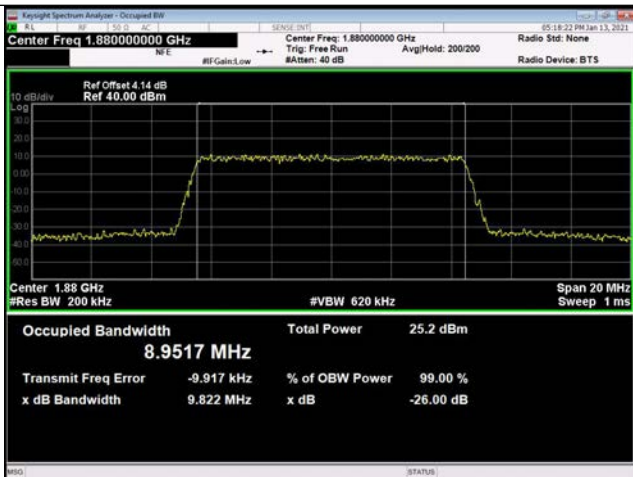
10MHz / 64QAM / Low Channel



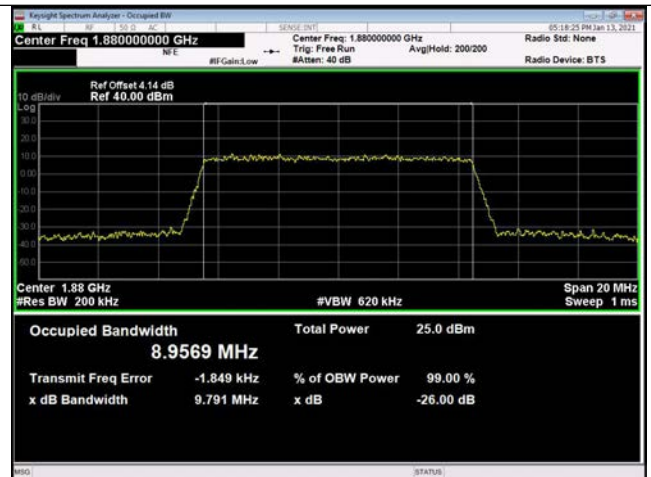
10MHz / QPSK / Middle Channel



10MHz / 16QAM / Middle Channel

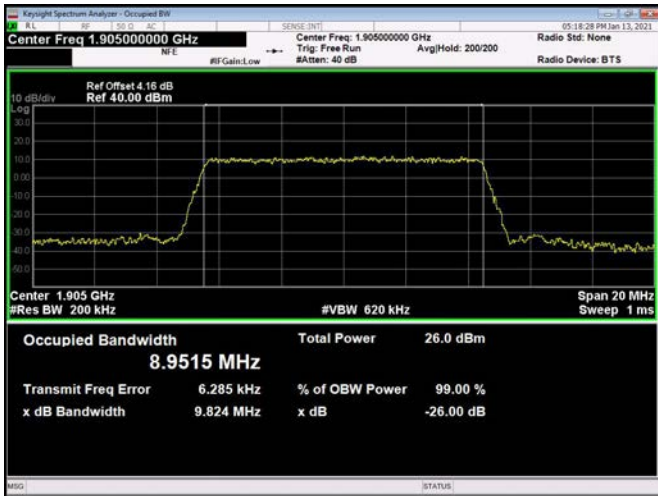


10MHz / 64QAM / Middle Channel

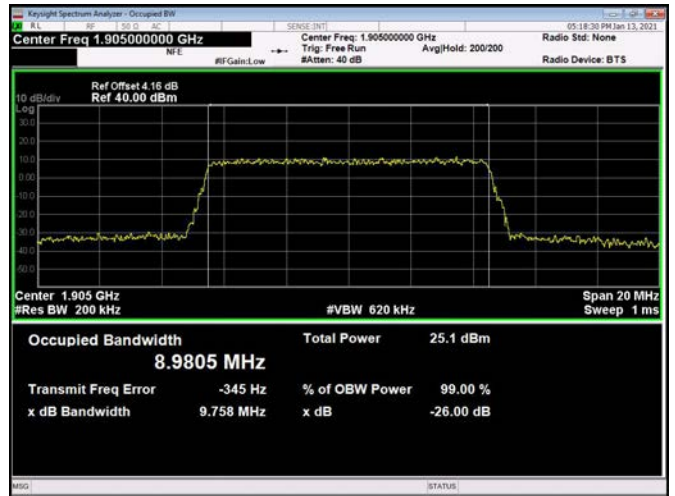




10MHz / QPSK / High Channel



10MHz / 16QAM / High Channel



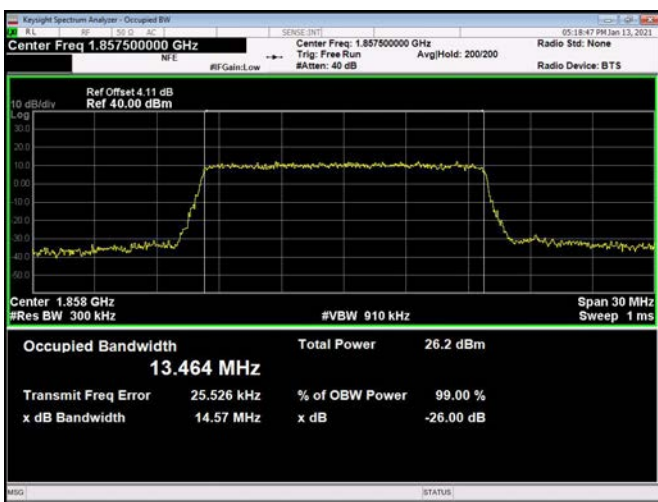
10MHz / 64QAM / High Channel



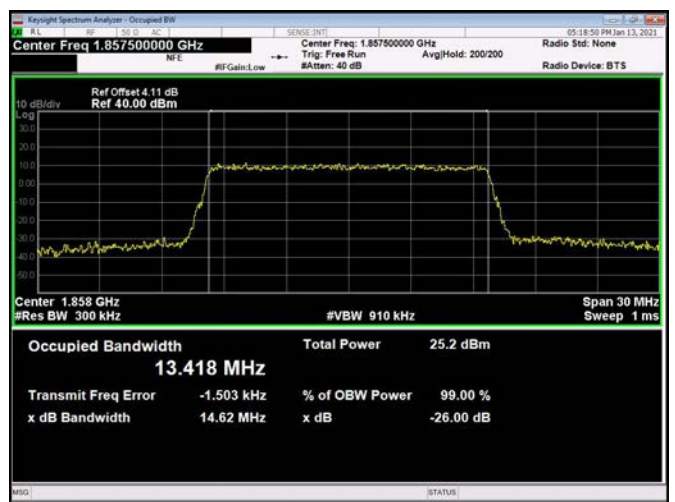
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15MHz / QPSK / Low Channel

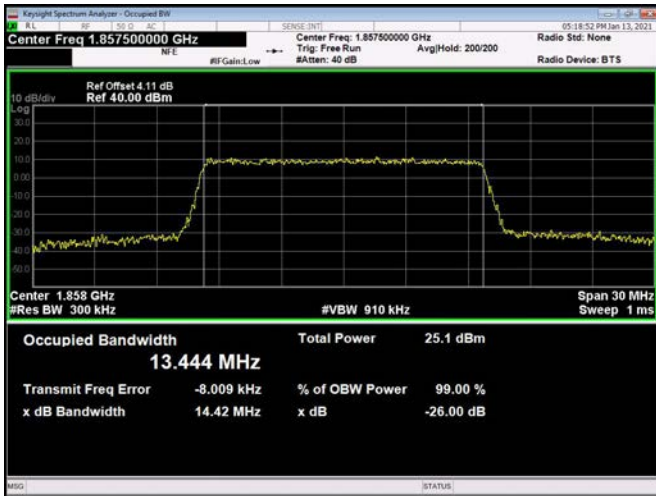


15MHz / 16QAM / Low Channel

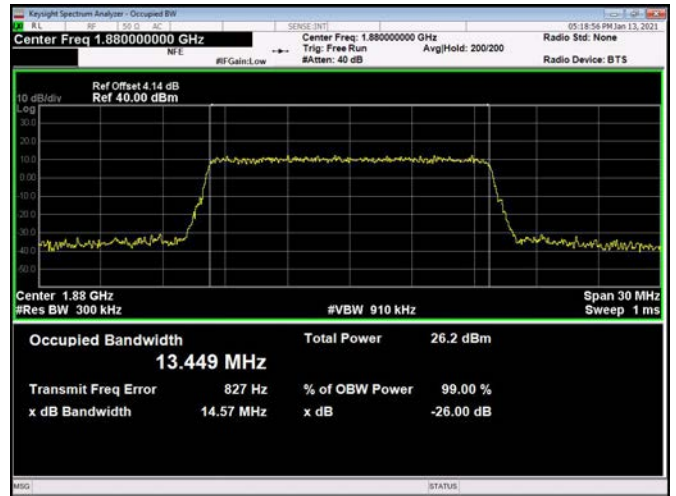




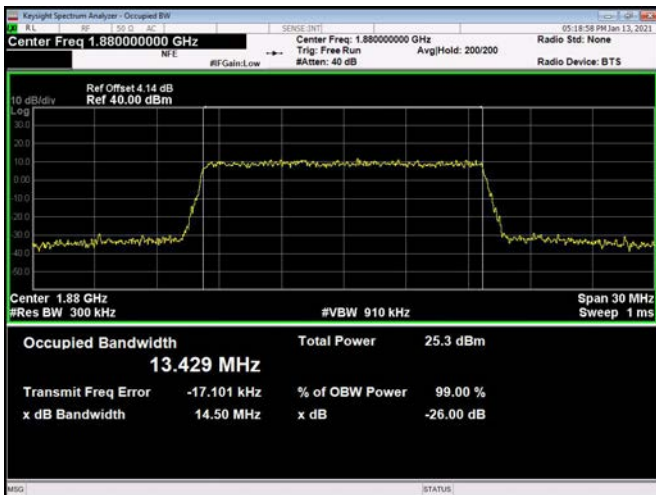
15MHz / 64QAM / Low Channel



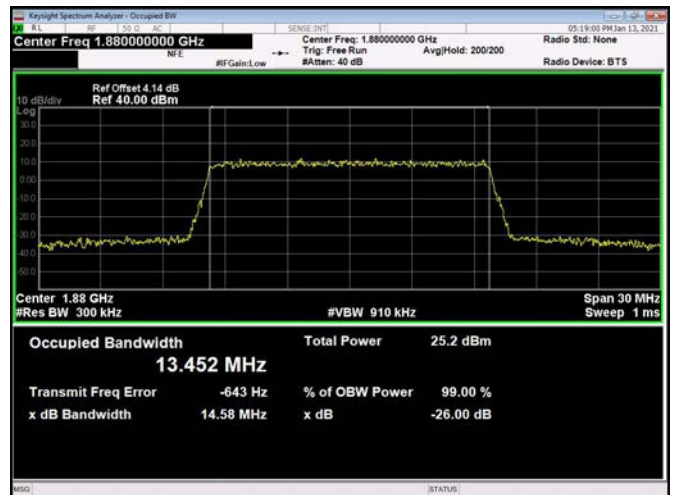
15MHz / QPSK / Middle Channel



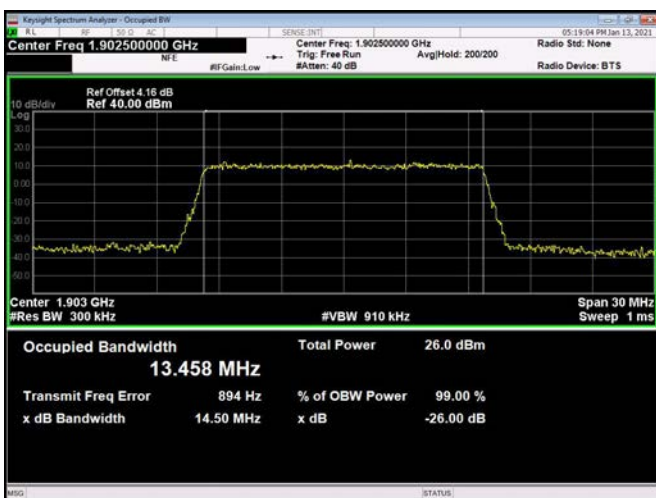
15MHz / 16QAM / Middle Channel



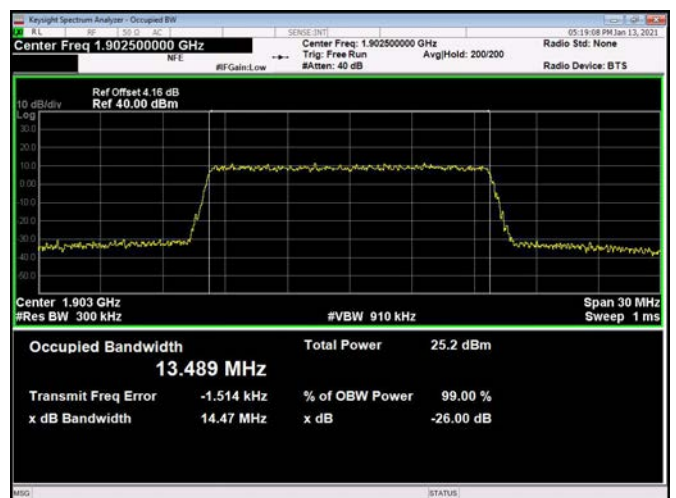
15MHz / 64QAM / Middle Channel



15MHz / QPSK / High Channel



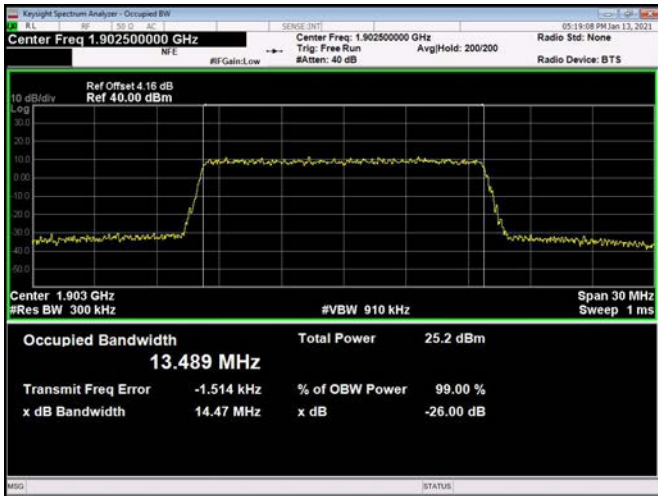
15MHz / 16QAM / High Channel





15MHz / 64QAM / High Channel

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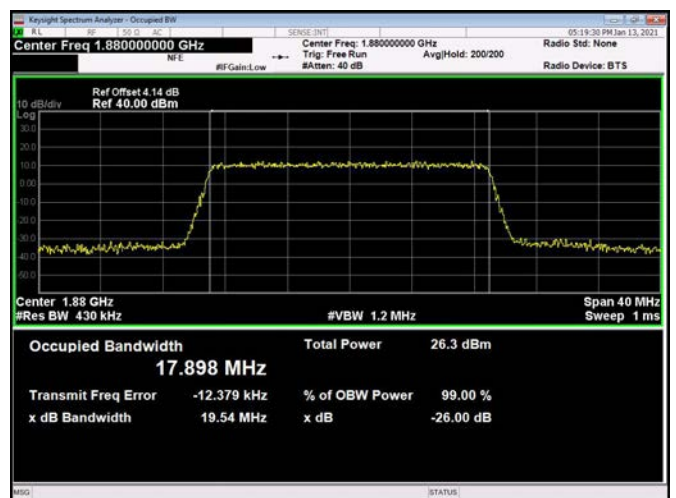
20MHz / QPSK / Low Channel

20MHz / 16QAM / Low Channel



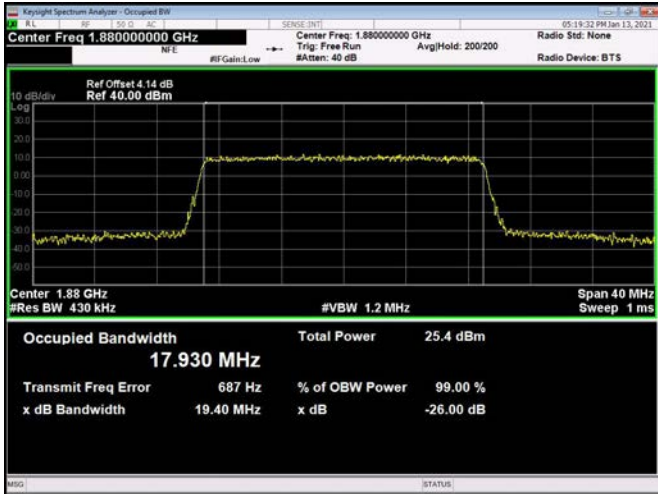
20MHz / 64QAM / Low Channel

20MHz / QPSK / Middle Channel

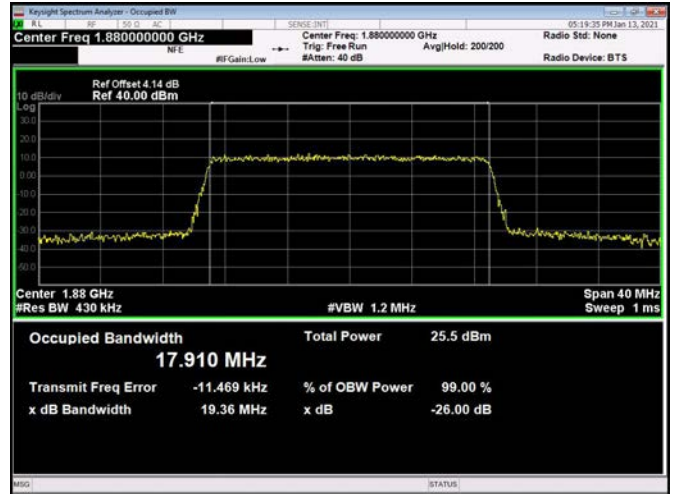




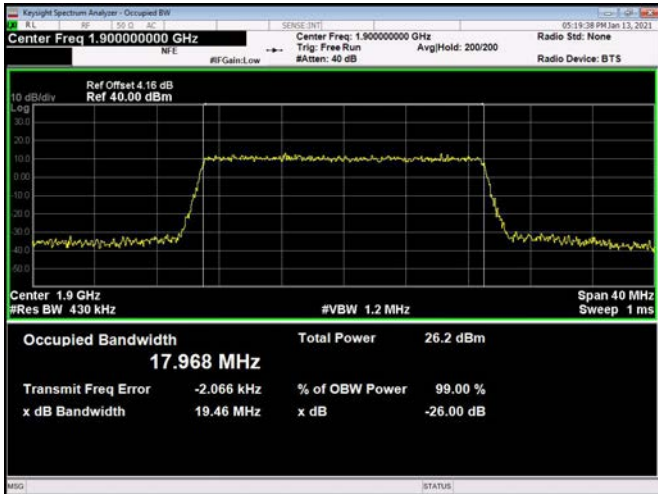
20MHz / 16QAM / Middle Channel



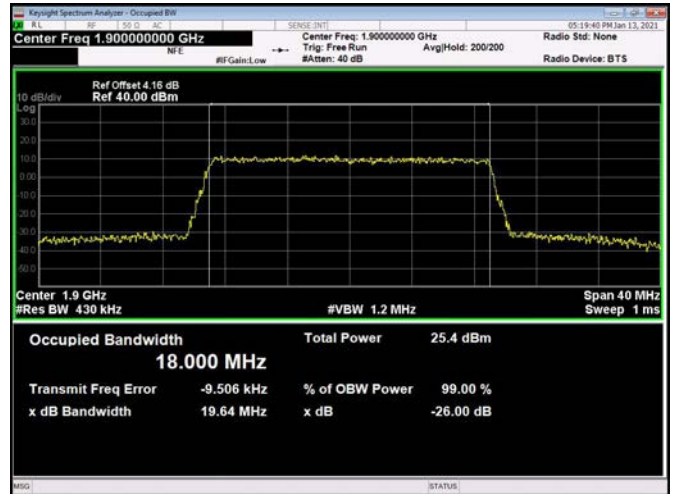
20MHz / 64QAM / Middle Channel



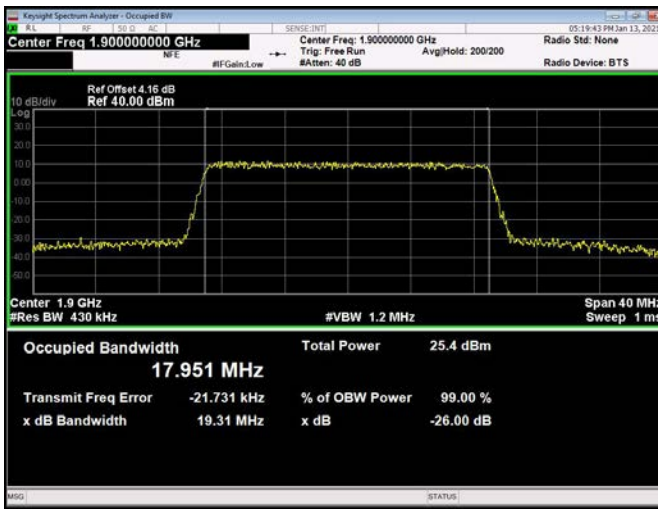
20MHz / QPSK / High Channel



20MHz / 16QAM / High Channel



20MHz / 64QAM / High Channel



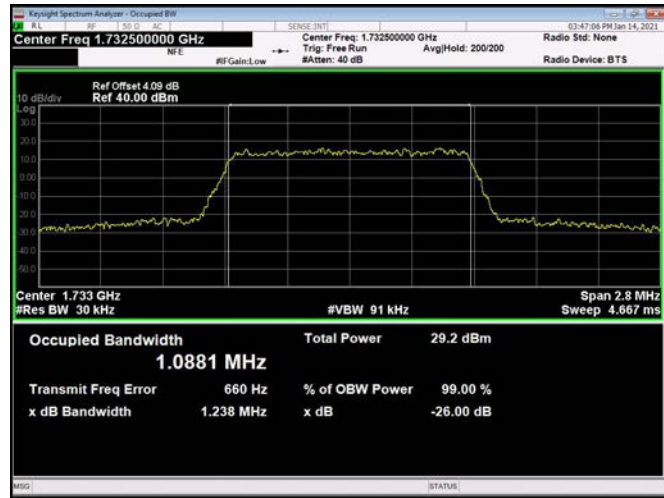
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LTE Band 4 _ 99% Bandwidth & 26dB Bandwidth

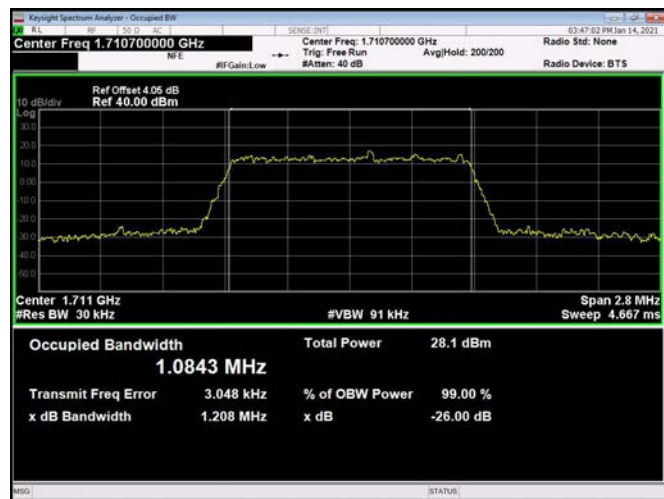
1.4MHz / QPSK / Low Channel



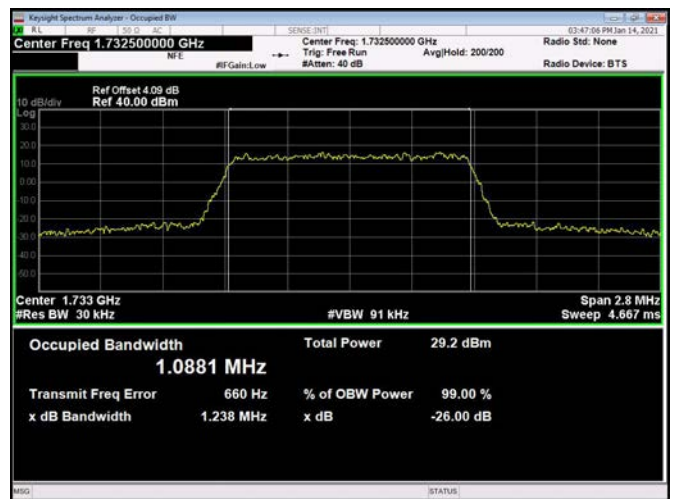
1.4MHz / 16QAM / Low Channel



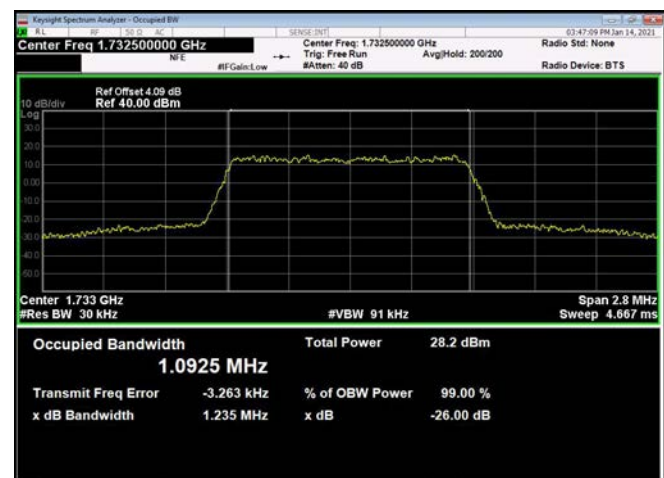
1.4MHz / 64QAM / Low Channel



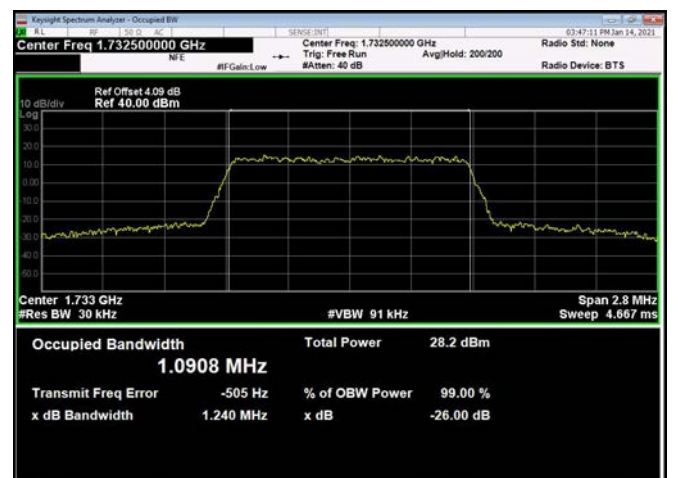
1.4MHz / QPSK / Middle Channel



1.4MHz / 16QAM / Middle Channel

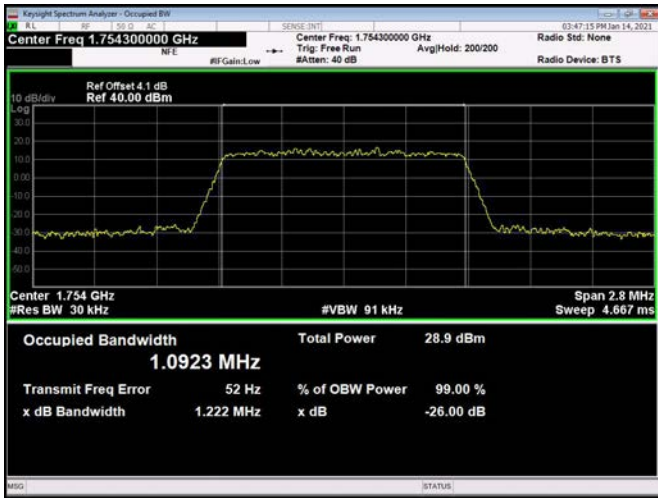


1.4MHz / 64QAM / Middle Channel

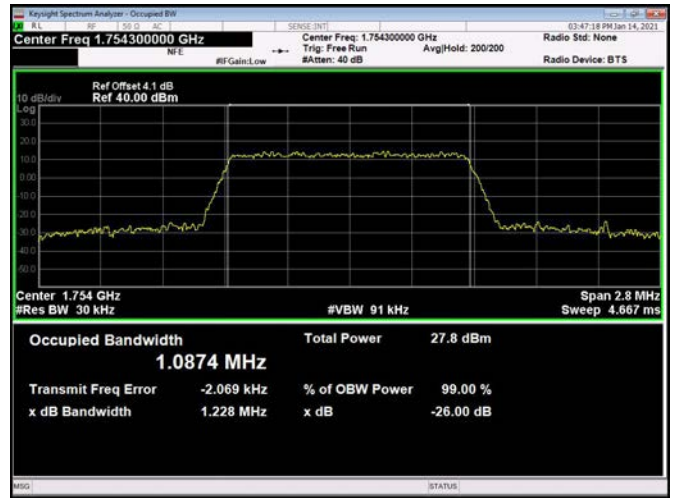




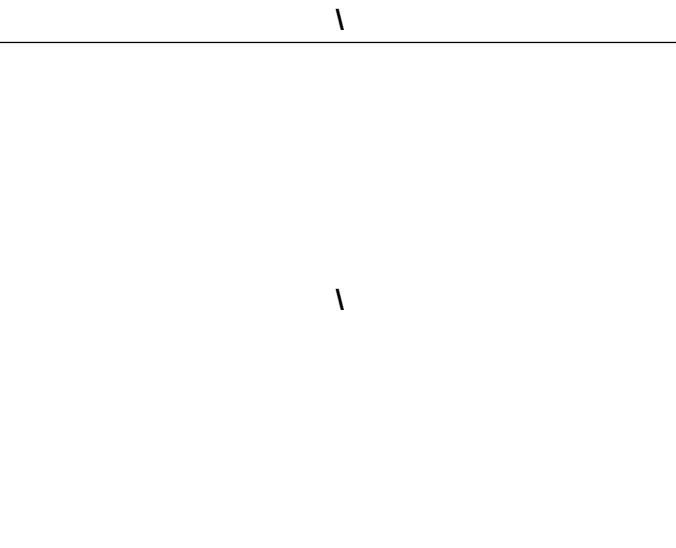
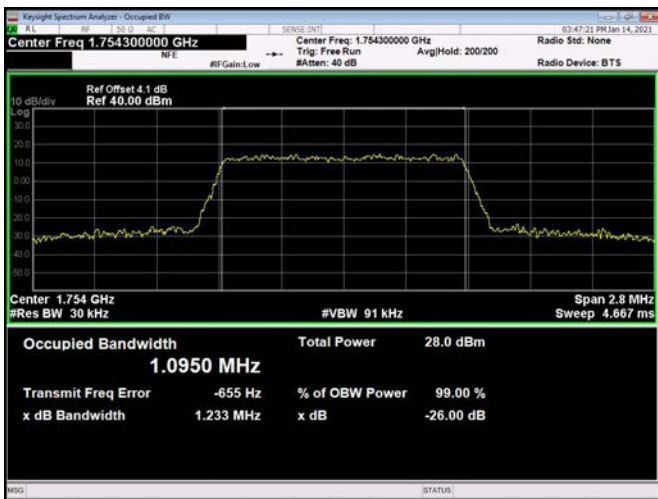
1.4MHz / QPSK / High Channel



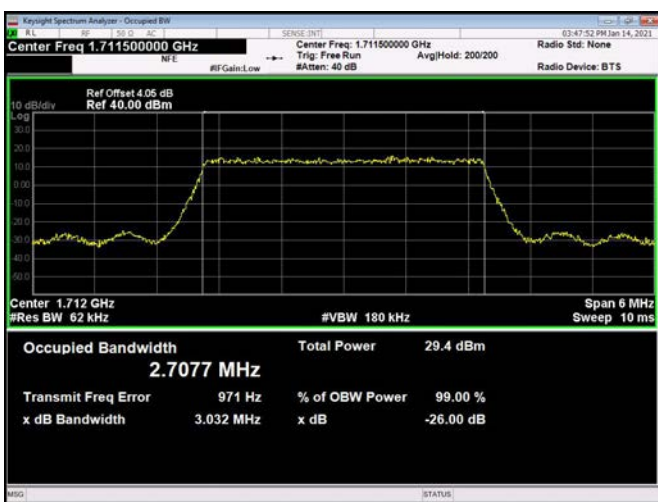
1.4MHz / 16QAM / High Channel



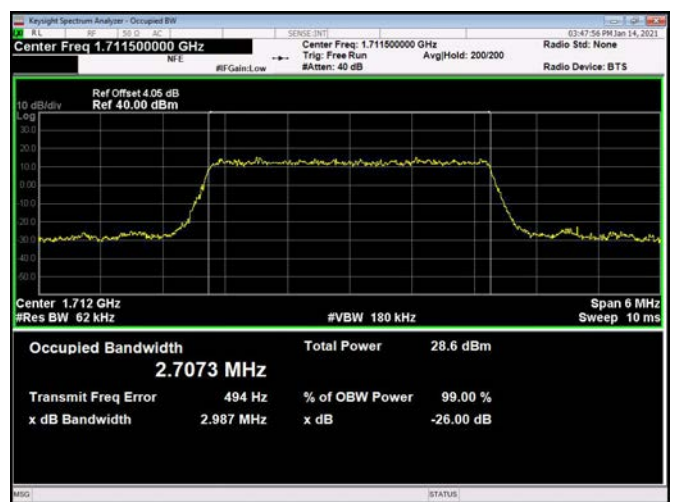
1.4MHz / 64QAM / High Channel



3MHz / QPSK / Low Channel

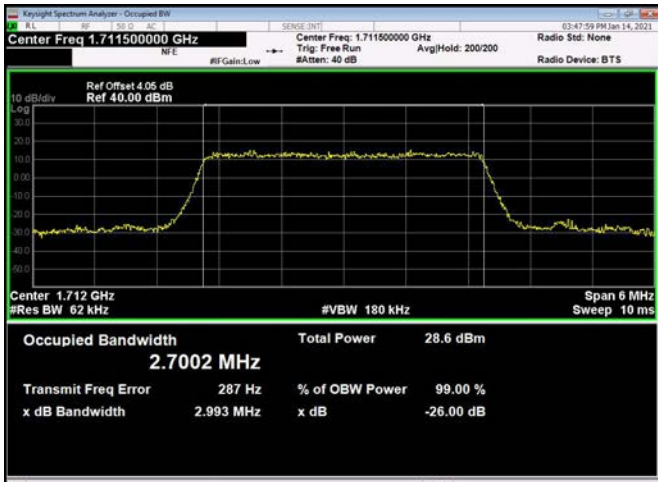


3MHz / 16QAM / Low Channel

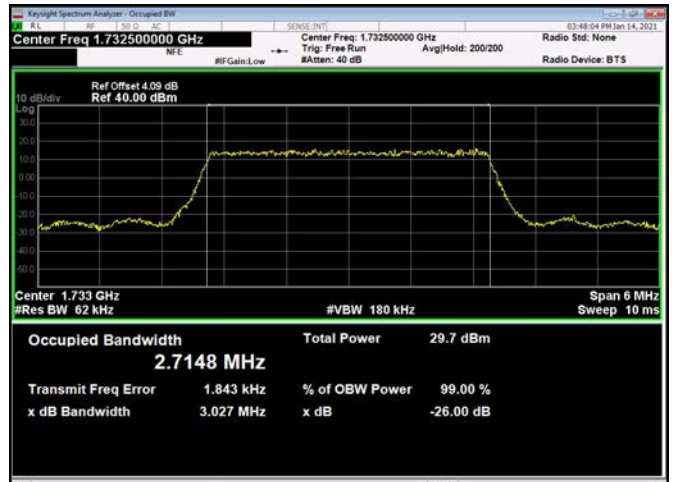




3MHz / 64QAM / Low Channel



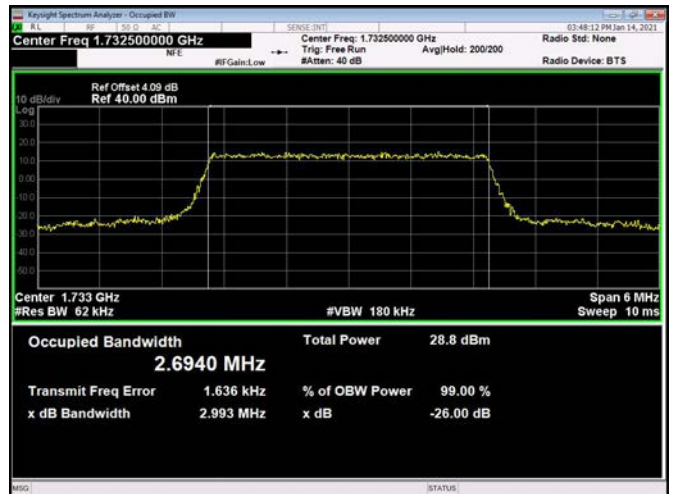
3MHz / QPSK / Middle Channel



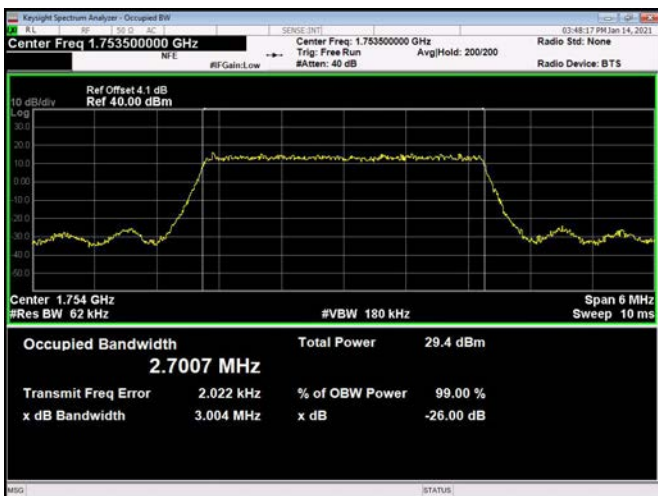
3MHz / 16QAM / Middle Channel



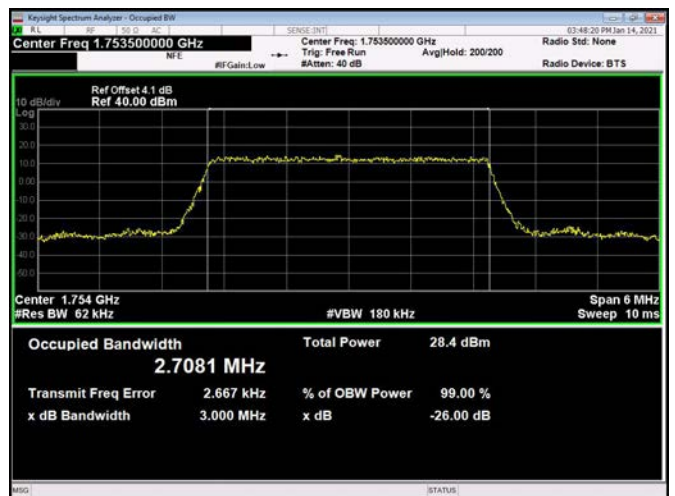
3MHz / 64QAM / Middle Channel



3MHz / QPSK / High Channel

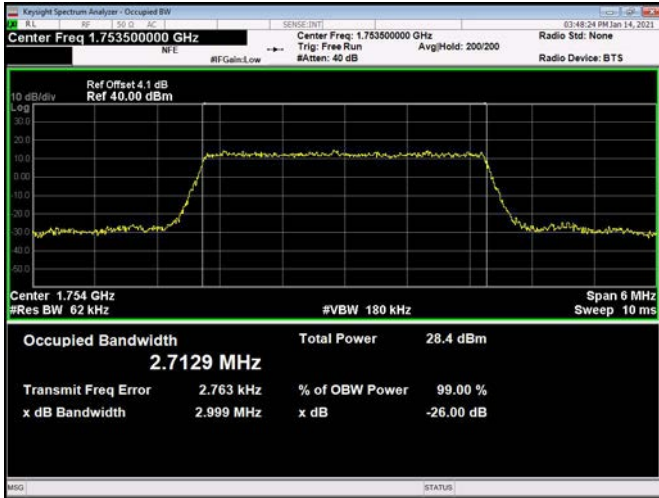


3MHz / 16QAM / High Channel





3MHz / 64QAM / High Channel



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5MHz / QPSK / Low Channel



5MHz / 16QAM / Low Channel



5MHz / 64QAM / Low Channel

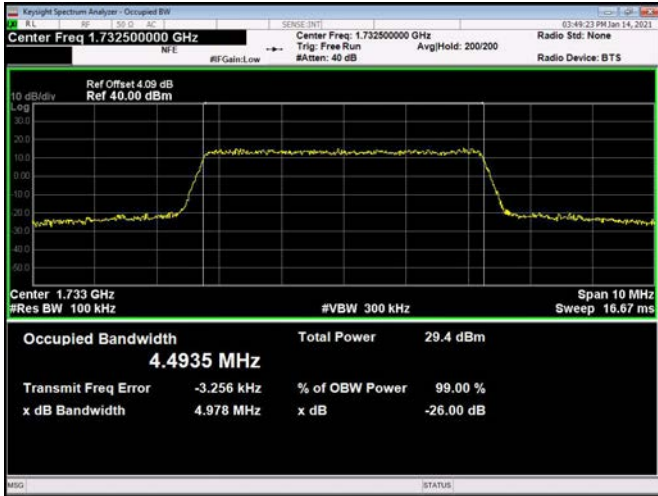


5MHz / QPSK / Middle Channel

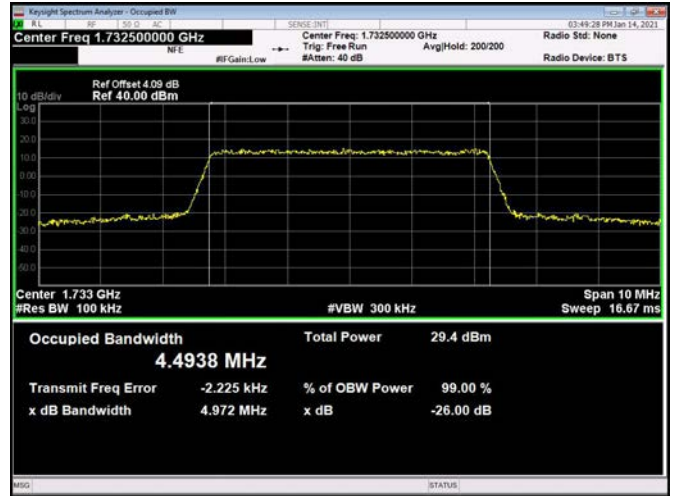




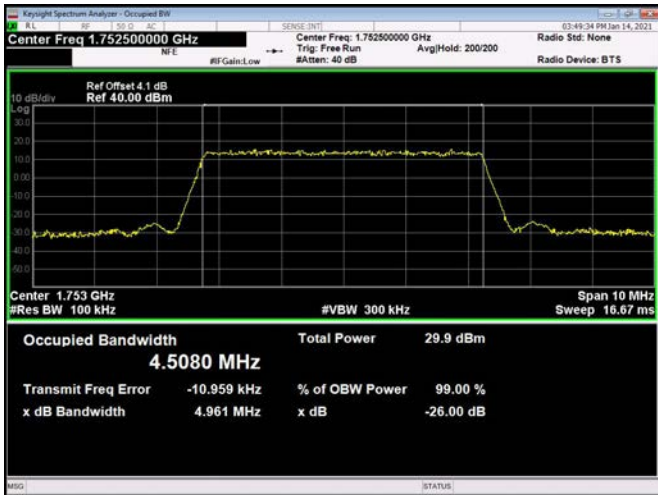
5MHz / 16QAM / Middle Channel



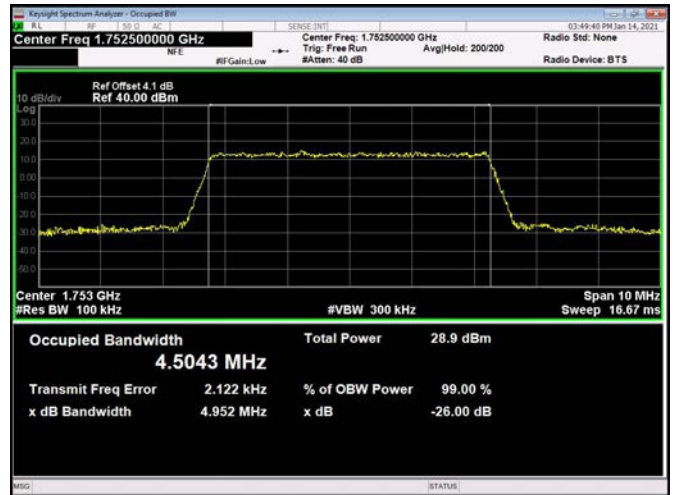
5MHz / 64QAM / Middle Channel



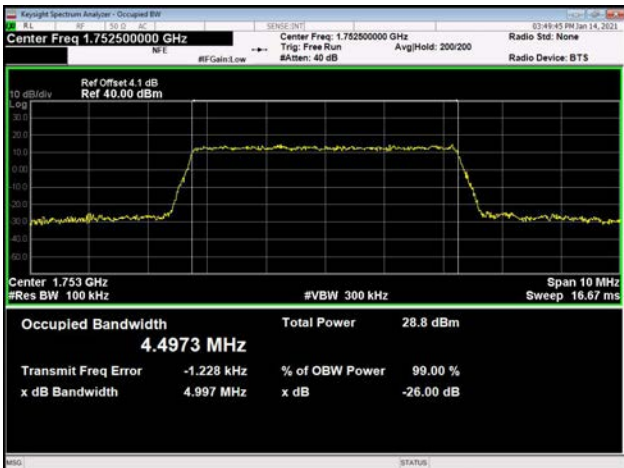
5MHz / QPSK / High Channel



5MHz / 16QAM / High Channel

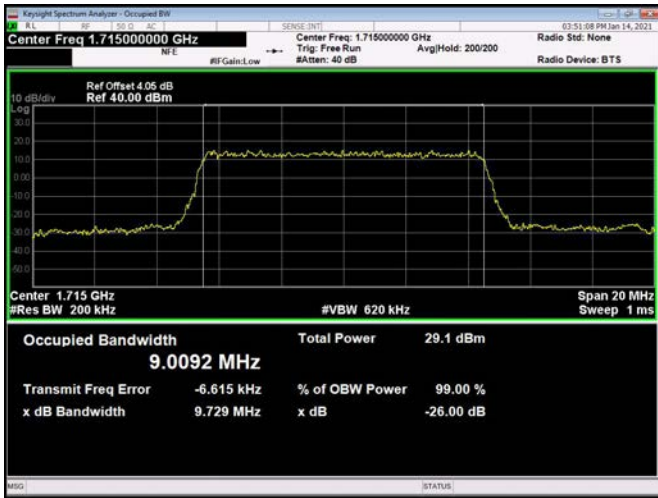


5MHz / 64QAM / High Channel

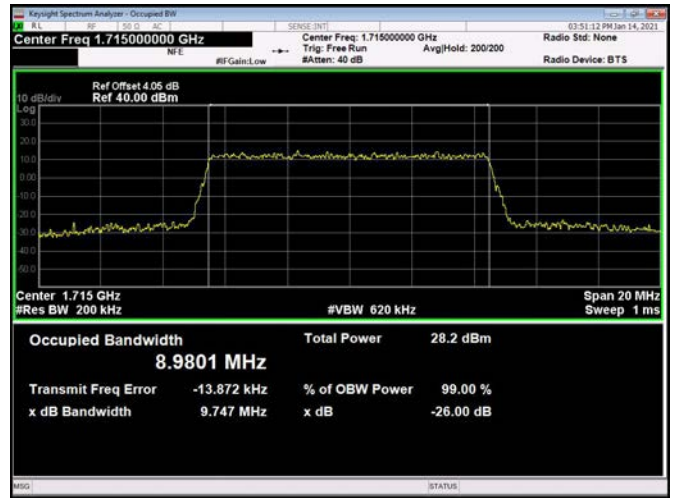




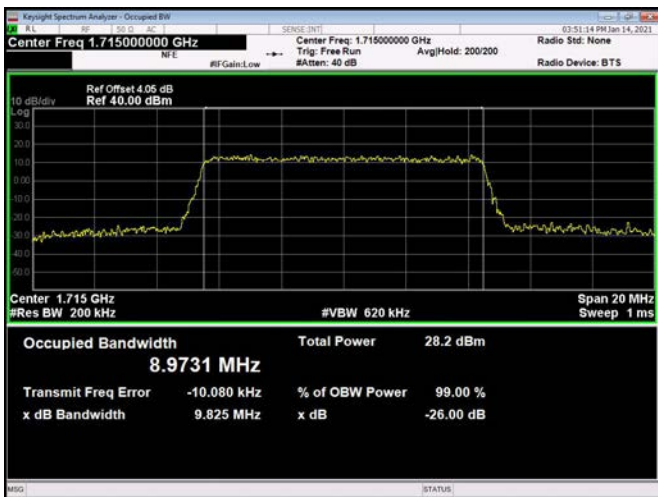
10MHz / QPSK / Low Channel



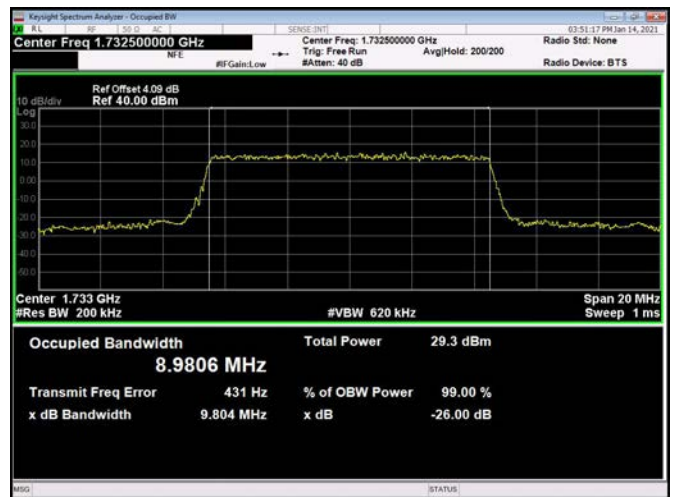
10MHz / 16QAM / Low Channel



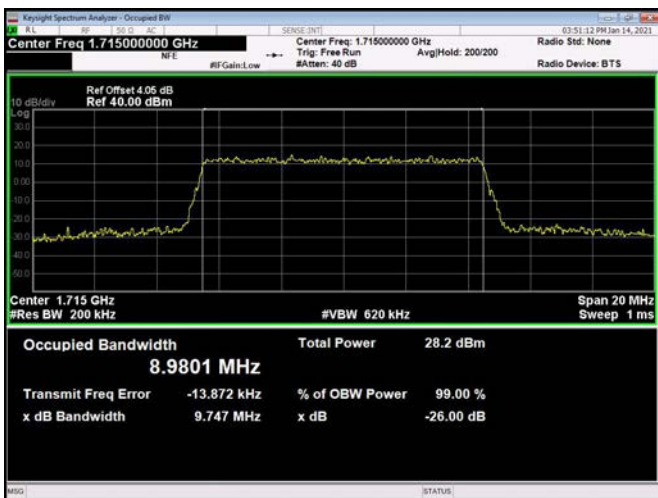
10MHz / 64QAM / Low Channel



10MHz / QPSK / Middle Channel



10MHz / 16QAM / Middle Channel

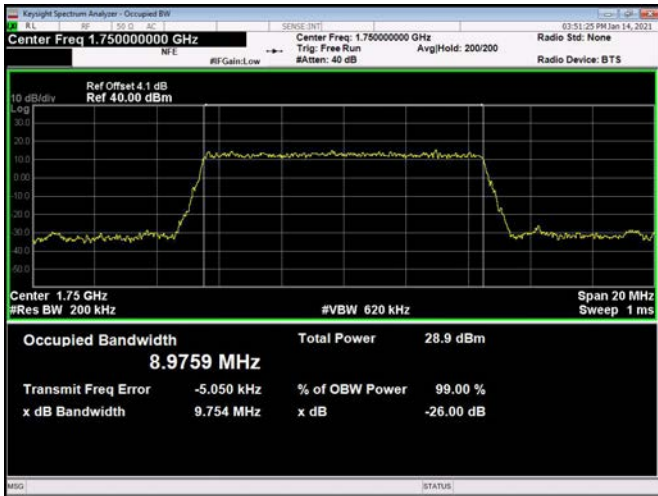


10MHz / 64QAM / Middle Channel

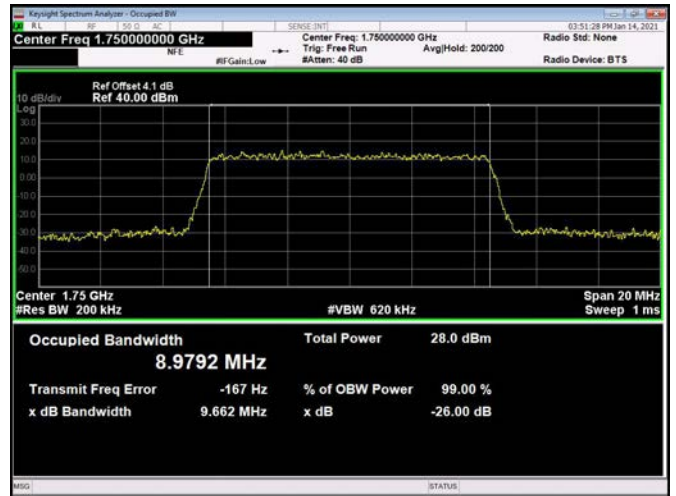




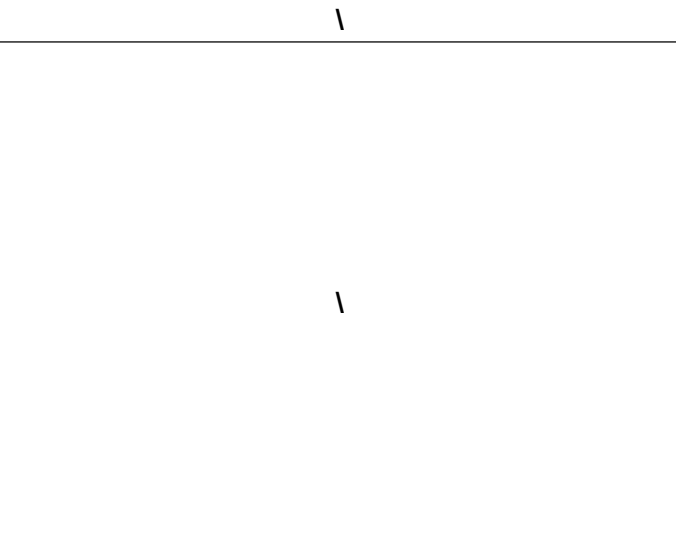
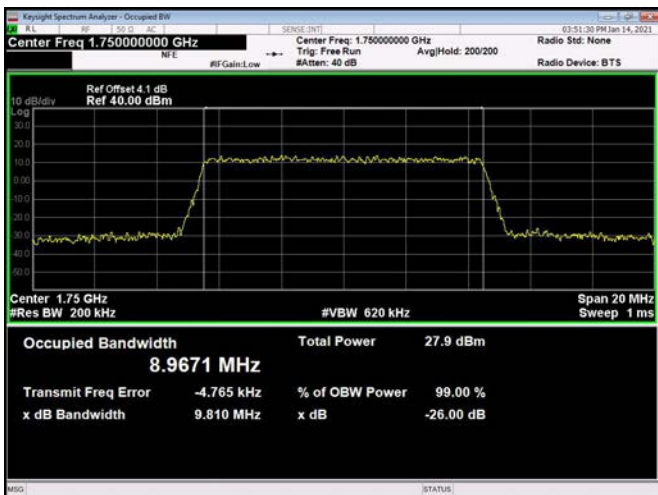
10MHz / QPSK / High Channel



10MHz / 16QAM / High Channel



10MHz / 64QAM / High Channel



15MHz / QPSK / Low Channel

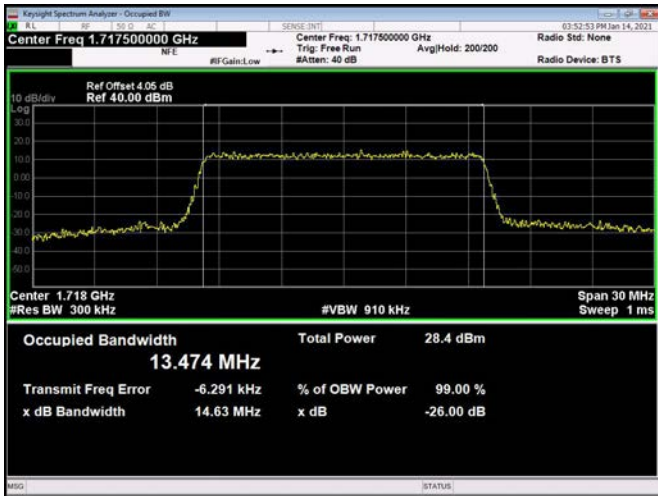


15MHz / 16QAM / Low Channel

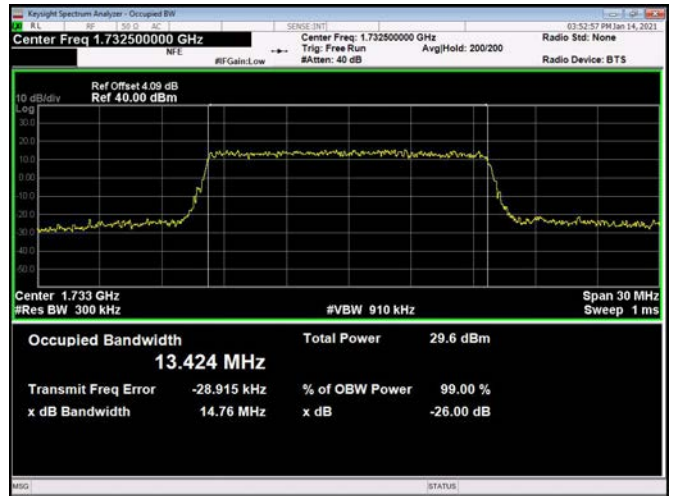




15MHz / 64QAM / Low Channel



15MHz / QPSK / Middle Channel



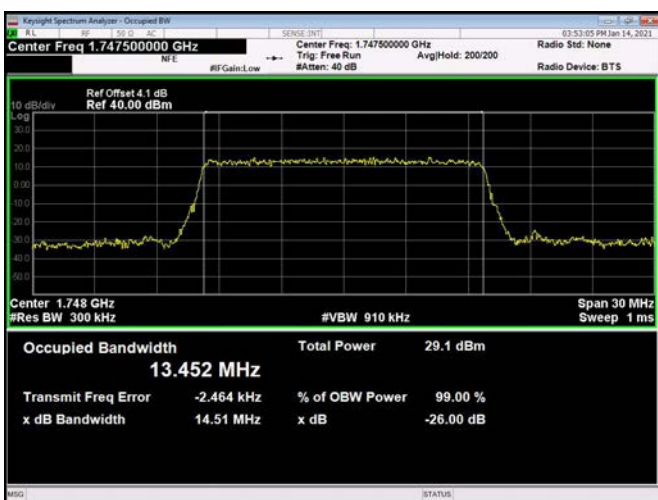
15MHz / 16QAM / Middle Channel



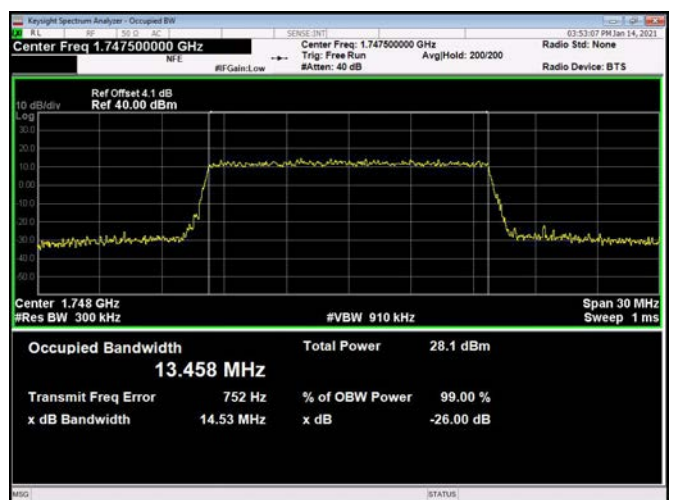
15MHz / 64QAM / Middle Channel



15MHz / QPSK / High Channel



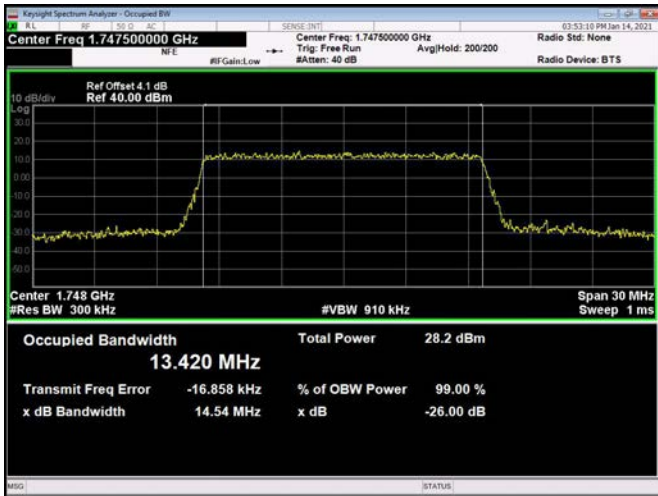
15MHz / 16QAM / High Channel





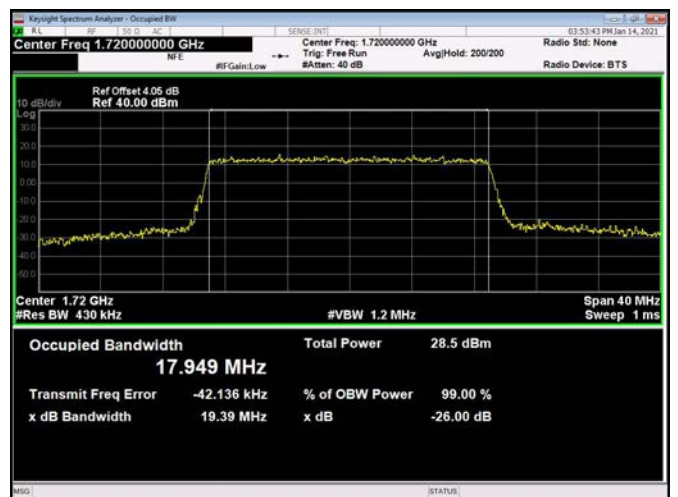
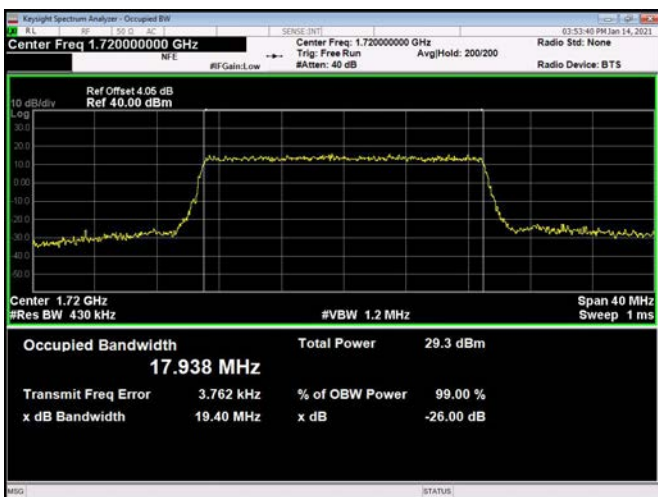
15MHz / 64QAM / High Channel

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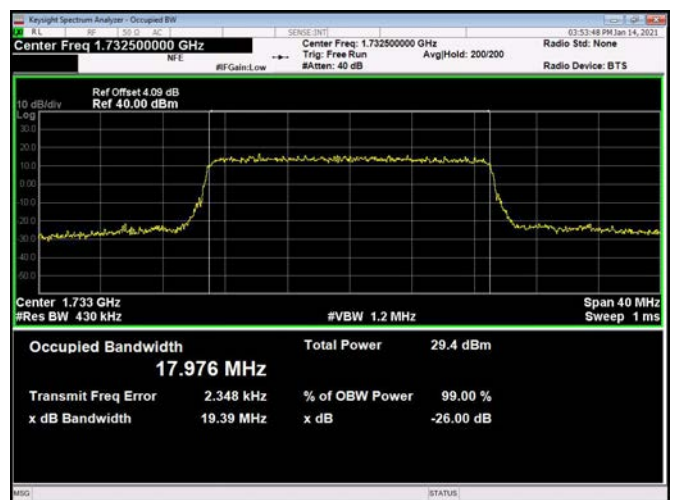
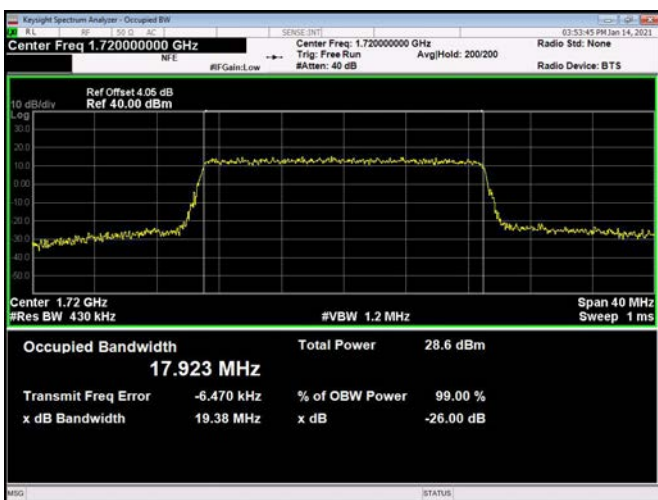
20MHz / QPSK / Low Channel

20MHz / 16QAM / Low Channel



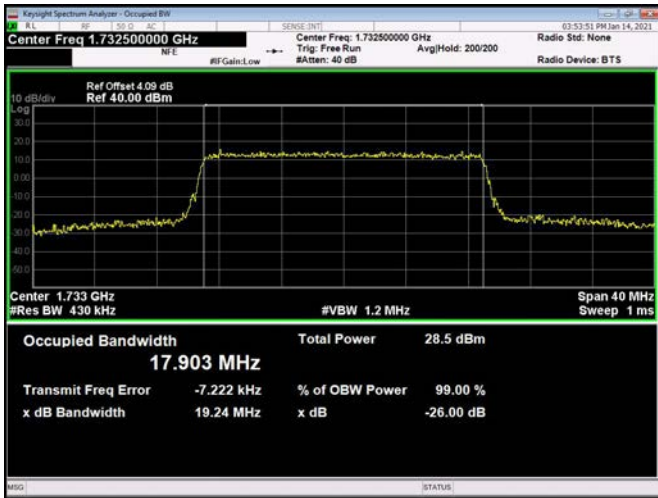
20MHz / 64QAM / Low Channel

20MHz / QPSK / Middle Channel

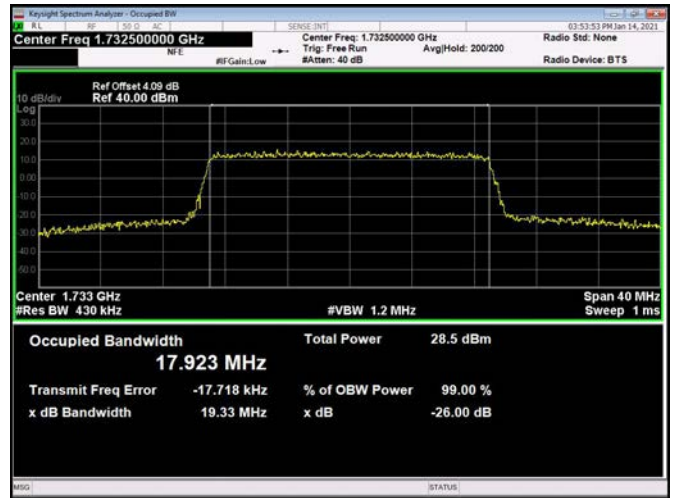




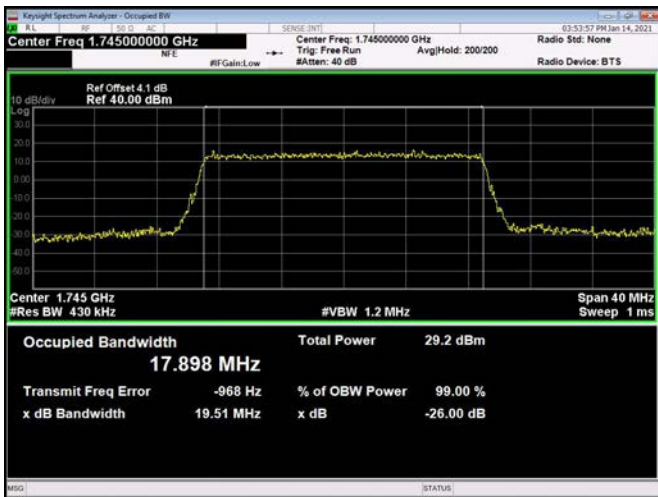
20MHz / 16QAM / Middle Channel



20MHz / 64QAM / Middle Channel



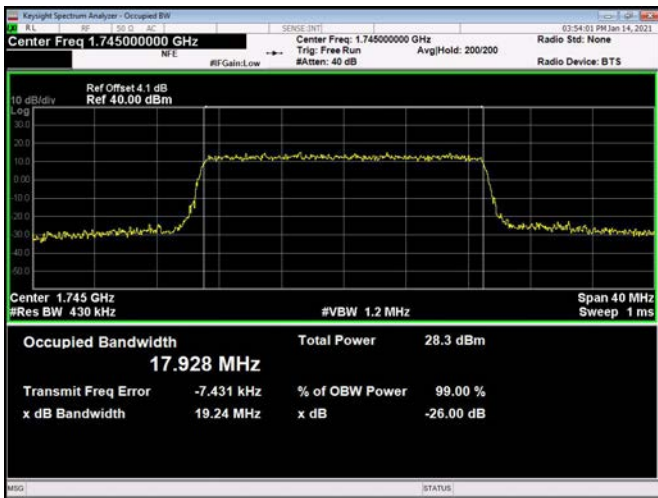
20MHz / QPSK / High Channel



20MHz / 16QAM / High Channel



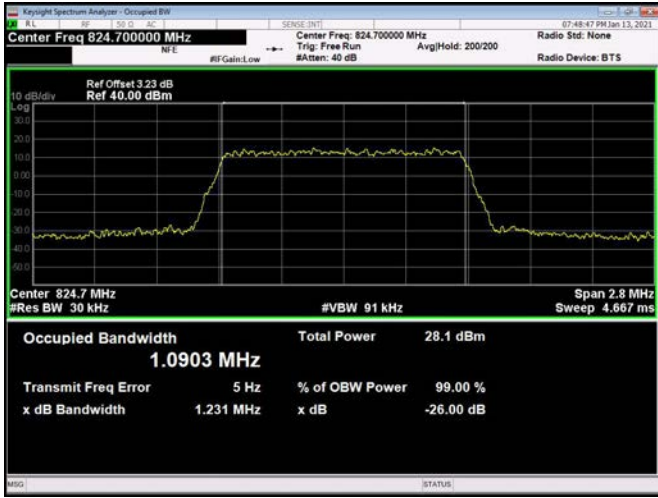
20MHz / 64QAM / High Channel



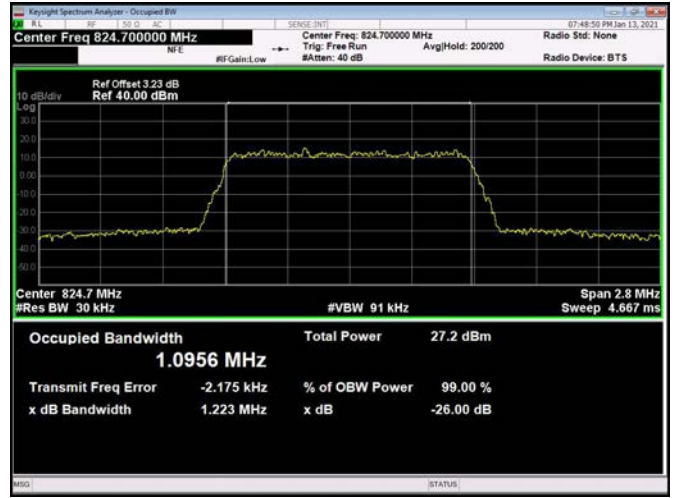


LTE Band 5 _ 99% Bandwidth & 26dB Bandwidth

1.4MHz / QPSK / Low Channel



1.4MHz / 16QAM / Low Channel



1.4MHz / 64QAM / Low Channel

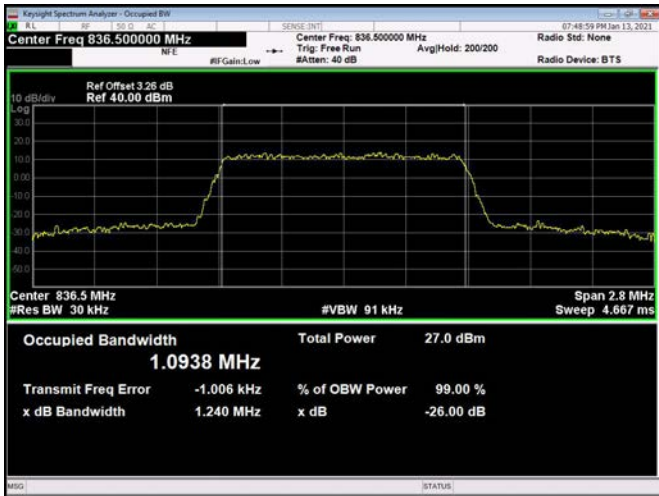


1.4MHz / QPSK / Middle Channel

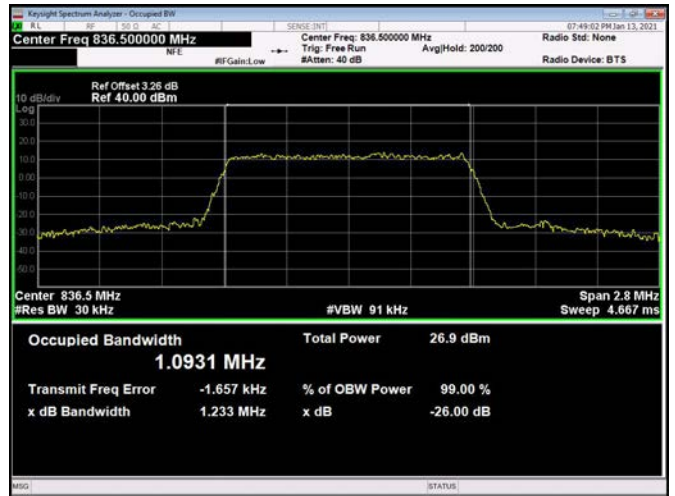




1.4MHz / 16QAM / Middle Channel



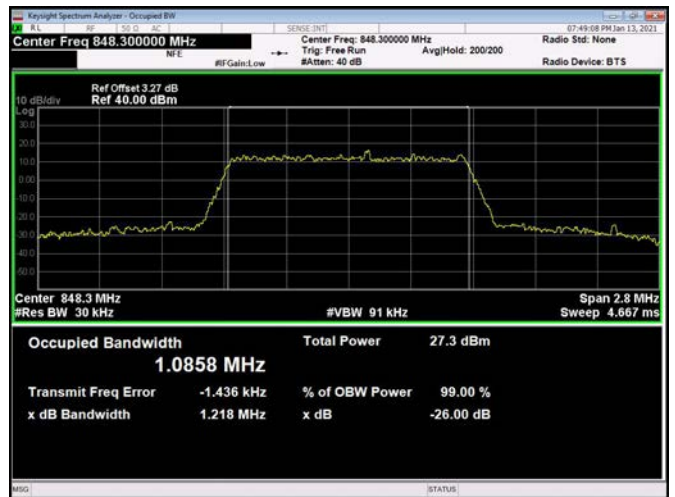
1.4MHz / 64QAM / Middle Channel



1.4MHz / QPSK / High Channel



1.4MHz / 16QAM / High Channel

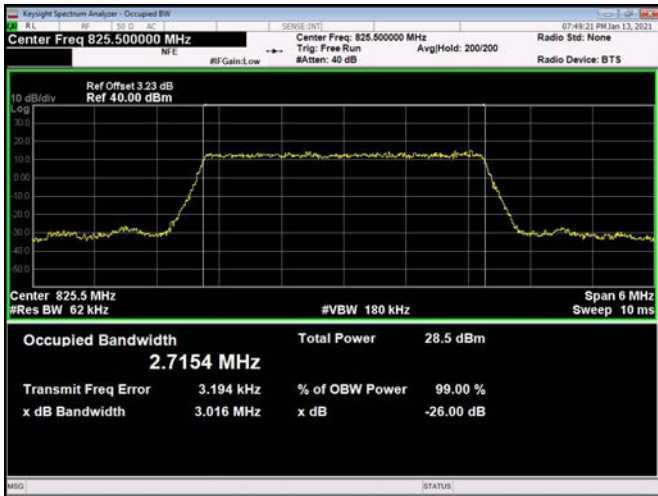


1.4MHz / 64QAM / High Channel

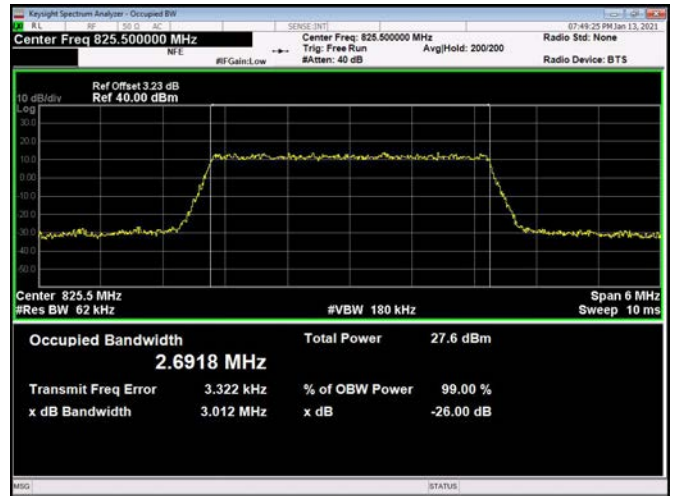




3MHz / QPSK / Low Channel



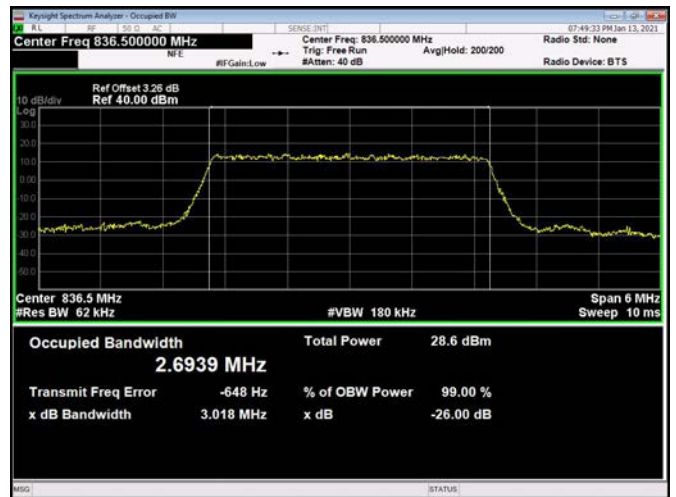
3MHz / 16QAM / Low Channel



3MHz / 64QAM / Low Channel



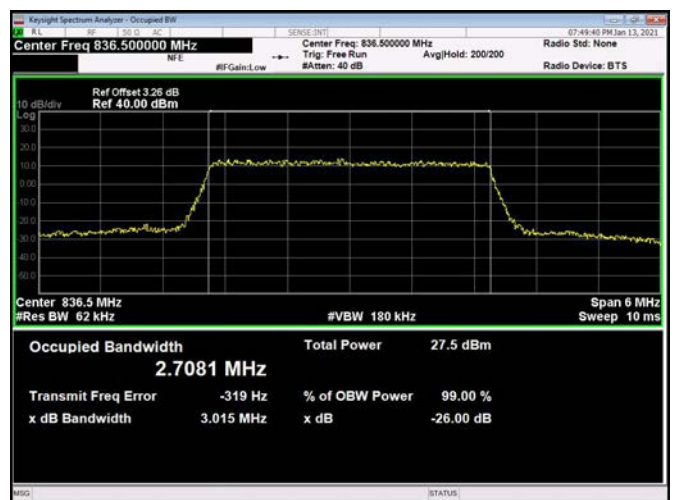
3MHz / QPSK / Middle Channel



3MHz / 16QAM / Middle Channel

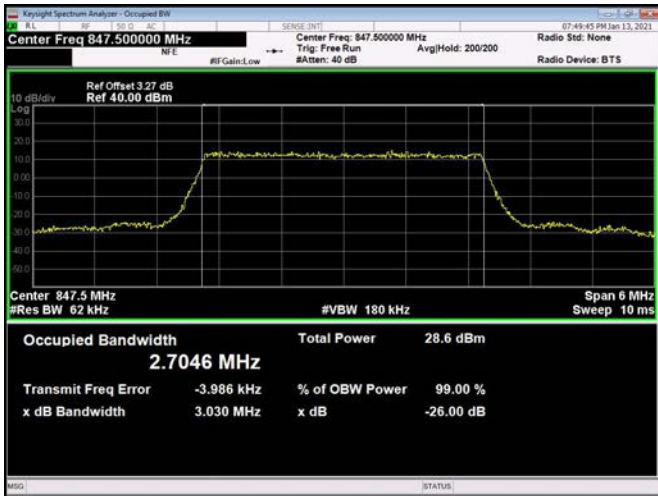


3MHz / 64QAM / Middle Channel

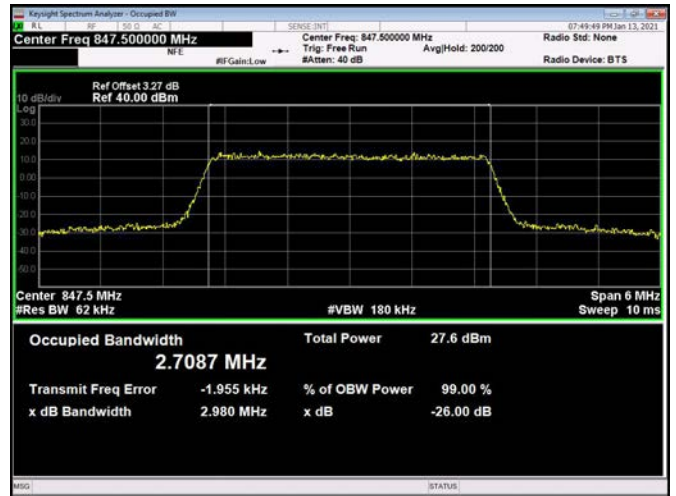




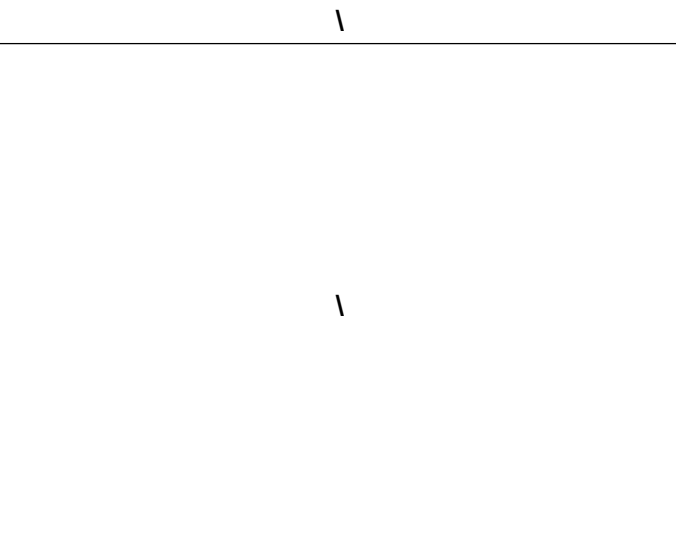
3MHz / QPSK / High Channel



3MHz / 16QAM / High Channel



3MHz / 64QAM / High Channel



5MHz / QPSK / Low Channel



5MHz / 16QAM / Low Channel

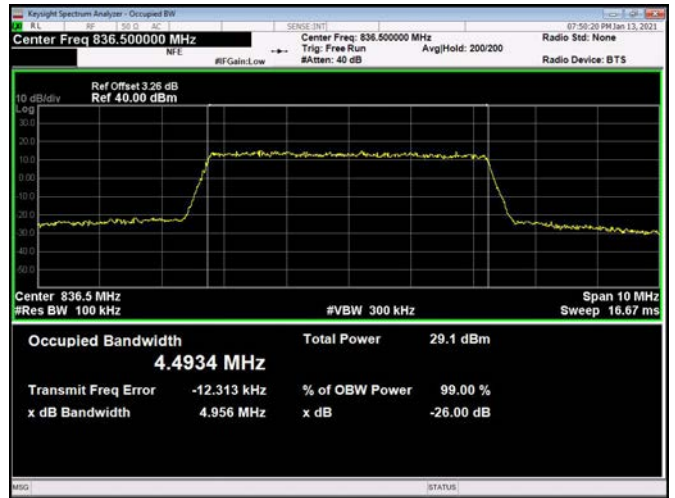




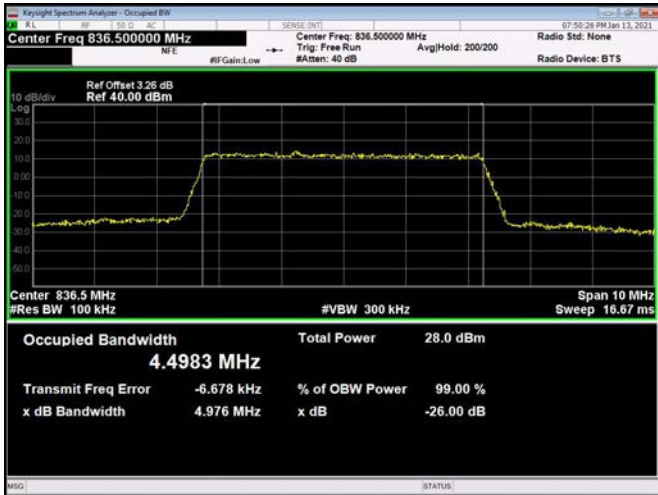
5MHz / 64QAM / Low Channel



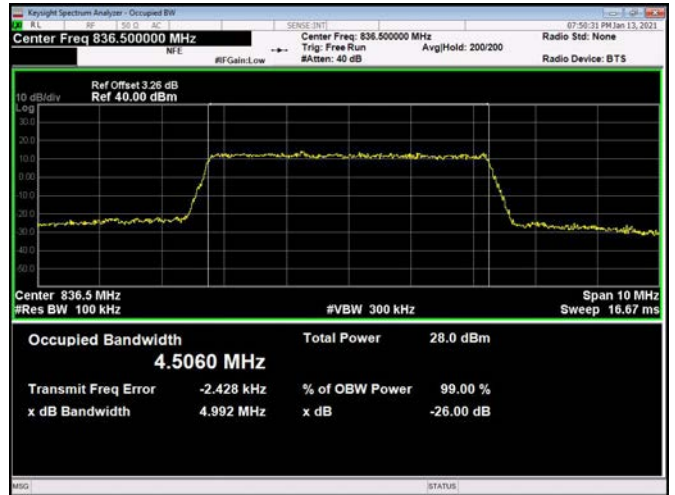
5MHz / QPSK / Middle Channel



5MHz / 16QAM / Middle Channel



5MHz / 64QAM / Middle Channel



5MHz / QPSK / High Channel



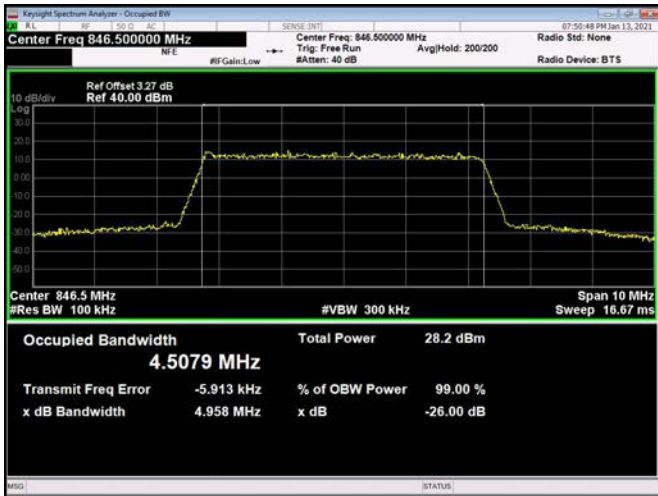
5MHz / 16QAM / High Channel





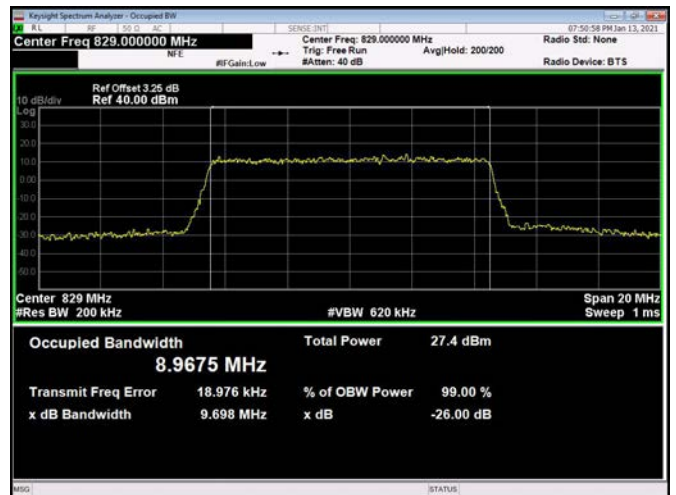
5MHz / 64QAM / High Channel

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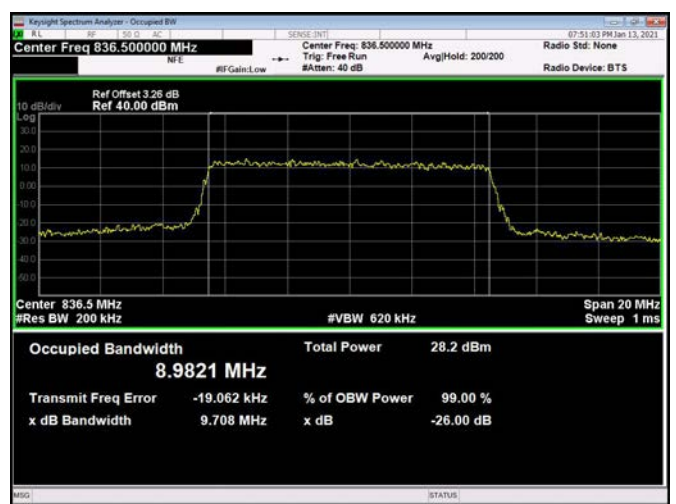
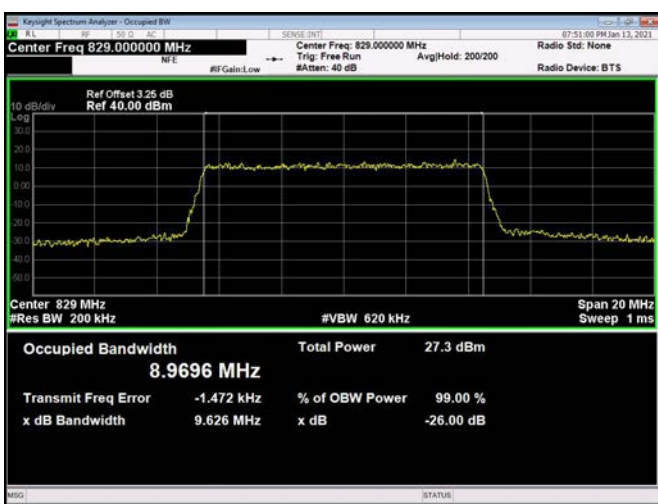
10MHz / QPSK / Low Channel

10MHz / 16QAM / Low Channel



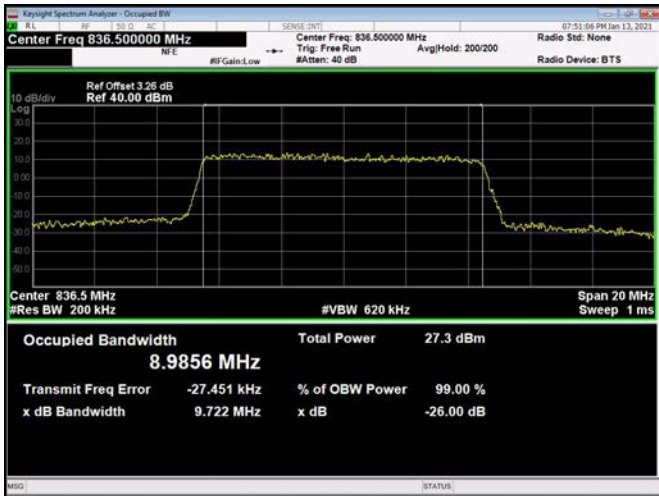
10MHz / 64QAM / Low Channel

10MHz / QPSK / Middle Channel

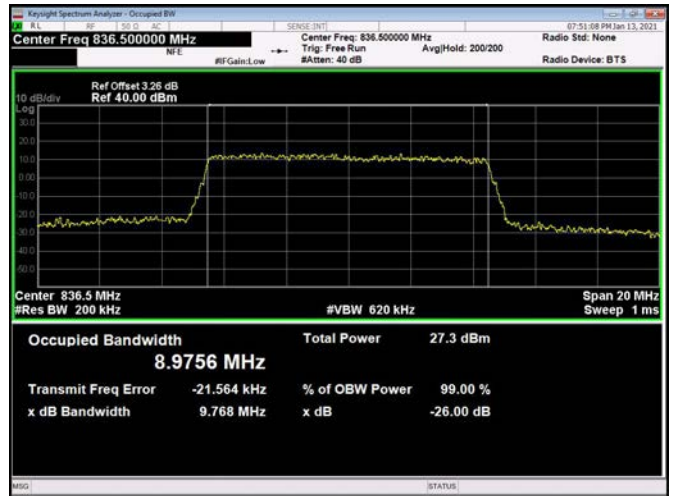




10MHz / 16QAM / Middle Channel



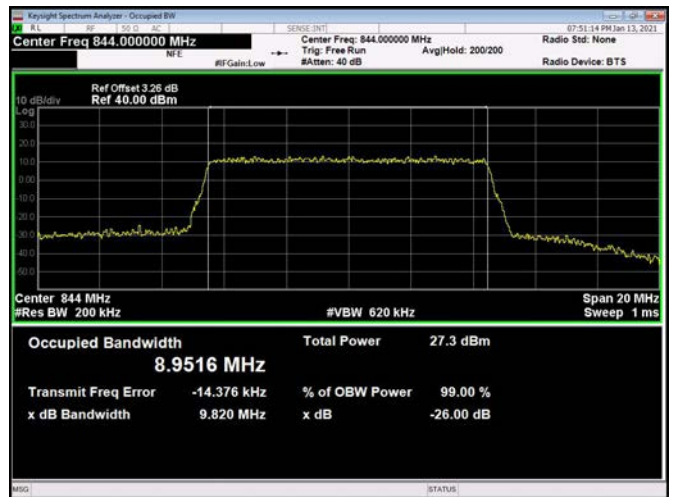
10MHz / 64QAM / Middle Channel



10MHz / QPSK / High Channel



10MHz / 16QAM / High Channel



10MHz / 64QAM / High Channel

