



FCC CFR47 PART 22H, 24E, 27 AND 90S

CERTIFICATION TEST REPORT

FOR

CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL NUMBER: A1784

FCC ID: BCG-E3092A

REPORT NUMBER: 16U23366-E8V2

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Revision History

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V2	07/31/2016	Addressed TCB Questions	Tina Chu

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL: A1784

SERIAL NUMBER: C39RV054HFPQ (CONDUCTED); C39RM038H94X,
C39RL002H948 (RADIATED)

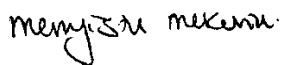
DATE TESTED: MARCH 3, 2016 – JULY 14, 2016

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC CFR47 PART 22H, 24E, 27 and 90S	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

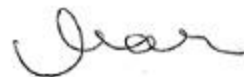
Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-D, FCC CFR 47 Part 2, FCC KDB 971168 D01 v02r02, Part 22, Part 24, Part 27 and Part 90.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47266 Benicia Street, Fremont, California, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A	☒ Chamber D
☐ Chamber B	☒ Chamber E
☐ Chamber C	☒ Chamber F
	☐ Chamber G
	☐ Chamber H

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers A through H are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-8, respectively.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	± 3.52 dB
Radiated Disturbance, 30 to 1000 MHz	± 4.94 dB
Radiated Disturbance, 1 to 6 GHz	± 3.86 dB
Radiated Disturbance, 6 to 18 GHz	± 4.23 dB
Radiated Disturbance, 18 to 26 GHz	± 5.30 dB
Radiated Disturbance, 26 to 40 GHz	± 5.23 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT, Model A1784 is a mobile phone with multimedia functions (music, application support, and video), cellular GSM/GPRS/EGPRS/WCDMA/HSPA+/DC-HSDPA/LTE-radio, IEEE 802.11a/b/g/n/ac, NFC and Bluetooth radio. The rechargeable battery is not user accessible.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted and ERP / EIRP output powers as follows:

5.2.1. LAT

OUTPUT POWER FOR LTE BAND 2

Part 24 / RSS 133 LTE Band 2						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1910	QPSK	25.00	316.2	24.41	276.1
		16QAM	24.30	269.2	23.67	232.8
3		QPSK	25.00	316.2	24.42	276.7
		16QAM	24.40	275.4	23.86	243.2
5		QPSK	25.00	316.2	24.65	291.7
		16QAM	24.40	275.4	23.75	237.1
10		QPSK	25.00	316.2	24.57	286.4
		16QAM	24.30	269.2	23.75	237.1
15		QPSK	25.00	316.2	24.31	269.8
		16QAM	24.30	269.2	23.52	224.9
20		QPSK	24.80	302.0	24.45	278.6
		16QAM	24.10	257.0	23.54	225.9

OUTPUT POWER FOR LTE BAND 4

Part 27 / RSS 139 LTE Band 4						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1710 - 1755	QPSK	24.90	309.0	23.67	232.8
		16QAM	24.30	269.2	23.29	213.3
3		QPSK	25.00	316.2	23.66	232.3
		16QAM	24.30	269.2	22.91	195.4
5		QPSK	24.90	309.0	23.66	232.3
		16QAM	24.30	269.2	22.93	196.3
10		QPSK	25.00	316.2	23.73	236.0
		16QAM	24.20	263.0	22.71	186.6
15		QPSK	24.90	309.0	23.35	216.3
		16QAM	24.20	263.0	22.78	189.7
20		QPSK	24.90	309.0	23.32	214.8
		16QAM	24.30	269.2	22.62	182.8

OUTPUT POWER FOR LTE BAND 5 AND 26

Part 22 /RSS 132 LTE Band 5 and 26						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
1.4	824 - 849	QPSK	24.00	251.2	17.51	56.36
		16QAM	23.30	213.8	17.00	50.12
3		QPSK	24.00	251.2	17.53	56.62
		16QAM	23.30	213.8	16.75	47.32
5		QPSK	24.00	251.2	17.35	54.33
		16QAM	23.30	213.8	16.87	48.64
10		QPSK	23.90	245.5	17.12	51.52
		16QAM	23.30	213.8	16.36	43.25

OUTPUT POWER FOR LTE BAND 7

Part 27 / RSS199 LTE Band 7						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
5	2500 - 2570	QPSK	25.00	316.2	26.66	463.4
		16QAM	24.30	269.2	25.84	383.7
10		QPSK	25.00	316.2	26.91	490.9
		16QAM	24.20	263.0	25.98	396.3
15		QPSK	25.00	316.2	26.89	488.7
		16QAM	24.30	269.2	26.17	414.0
20		QPSK	25.00	316.2	26.88	487.5
		16QAM	24.20	263.0	26.08	405.5

OUTPUT POWER FOR LTE BAND 12

Part 27 /RSS 130 LTE Band 12						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	dBm
1.4	699-716	QPSK	25.00	316.2	18.21	66.22
		16QAM	24.30	269.2	17.61	57.68
3		QPSK	25.00	316.2	18.23	66.53
		16QAM	24.30	269.2	17.52	56.49
5		QPSK	24.90	309.0	18.08	64.27
		16QAM	24.00	251.2	17.37	54.58
10		QPSK	25.00	316.2	17.78	59.98
		16QAM	24.30	269.2	17.08	51.05

OUTPUT POWER FOR LTE BAND 13

Part 27 /RSS 130 LTE Band 13						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
5	777 - 787	QPSK	25.00	316.2	20.56	113.76
		16QAM	24.30	269.2	19.80	95.50
10		QPSK	25.00	316.2	20.07	101.62
		16QAM	24.20	263.0	19.22	83.56

OUTPUT POWER FOR LTE BAND 17

Part 27 /RSS 130 LTE Band 17						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
5	704-716	QPSK	25.00	316.2	18.72	74.5
		16QAM	24.30	269.2	17.68	58.6
10		QPSK	25.00	316.2	18.38	68.9
		16QAM	24.30	269.2	17.70	58.9

OUTPUT POWER FOR LTE BAND 25

Part 24 / RSS 133 LTE Band 25						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1915	QPSK	24.00	251.2	25.76	376.7
		16QAM	23.30	213.8	25.21	331.9
3		QPSK	24.00	251.2	25.83	382.8
		16QAM	23.30	213.8	25.00	316.2
5		QPSK	24.00	251.2	26.16	413.0
		16QAM	23.30	213.8	25.20	331.1
10		QPSK	24.00	251.2	26.04	401.8
		16QAM	23.20	208.9	25.25	335.0
15		QPSK	24.00	251.2	26.07	404.6
		16QAM	23.20	208.9	25.51	355.6
20		QPSK	24.00	251.2	26.19	415.9
		16QAM	23.20	208.9	25.84	383.7

OUTPUT POWER FOR LTE BAND 26

Part 90 LTE Band 26								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
1.4	814-824	QPSK	24.00	251.2	19.20	83.2	21.35	136.5
		16QAM	23.30	213.8	18.40	69.2	20.55	113.5
3		QPSK	24.00	251.2	19.26	84.3	21.41	138.4
		16QAM	23.30	213.8	18.36	68.5	20.51	112.5
5		QPSK	24.00	251.2	19.14	82.0	21.29	134.6
		16QAM	23.20	208.9	18.03	63.5	20.18	104.2
10		QPSK	24.00	251.2	18.79	75.7	20.94	124.2
		16QAM	23.20	208.9	17.98	62.8	20.13	103.0

OUTPUT POWER FOR LTE BAND 27

Part 90 LTE Band 27								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
1.4	814-824	QPSK	24.00	251.2	19.25	84.1	21.40	138.0
		16QAM	23.30	213.8	18.30	67.6	20.45	110.9
3		QPSK	24.00	251.2	19.30	85.1	21.45	139.6
		16QAM	23.20	208.9	18.42	69.5	20.57	114.0
5		QPSK	24.00	251.2	19.23	83.8	21.38	137.4
		16QAM	23.30	213.8	18.29	67.5	20.44	110.7
10		QPSK	24.00	251.2	18.83	76.4	20.98	125.3
		16QAM	23.20	208.9	18.03	63.5	20.18	104.2

OUTPUT POWER FOR LTE BAND 30

Part 27 / RSS 195 LTE Band 30						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
5	2305-2315	QPSK	24.00	251.2	22.20	166.0
		16QAM	23.30	213.8	21.50	141.3
10		QPSK	24.00	251.2	21.78	150.7
		16QAM	23.20	208.9	20.98	125.3

OUTPUT POWER FOR LTE BAND 41

Part 27 LTE Band 41						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
5	2496-2690	QPSK	24.50	281.8	26.47	443.6
		16QAM	23.80	239.9	25.72	373.3
10		QPSK	24.50	281.8	26.59	456.0
		16QAM	23.80	239.9	25.81	381.1
15		QPSK	24.50	281.8	26.39	435.5
		16QAM	23.70	234.4	25.56	359.7
20		QPSK	24.50	281.8	26.59	456.0
		16QAM	23.70	234.4	25.69	370.7

5.2.2. UAT

OUTPUT POWER FOR LTE BAND 2

Part 24 / RSS 133 LTE Band 2						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1910	QPSK	21.00	125.9	20.44	110.7
		16QAM	20.20	104.7	19.65	92.2
3		QPSK	21.00	125.9	20.76	119.1
		16QAM	20.10	102.3	19.70	93.3
5		QPSK	21.00	125.9	21.43	139.0
		16QAM	20.30	107.2	20.74	118.6
10		QPSK	21.00	125.9	21.42	138.7
		16QAM	20.30	107.2	20.73	118.3
15		QPSK	21.00	125.9	21.19	131.5
		16QAM	20.30	107.2	20.65	116.1
20		QPSK	21.00	125.9	21.00	125.9
		16QAM	20.30	107.2	20.46	111.2

OUTPUT POWER FOR LTE BAND 4

Part 27 / RSS 139 LTE Band 4						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP(Average)	
			dBm	mW	dBm	mW
1.4	1710 - 1755	QPSK	21.00	125.9	19.88	97.3
		16QAM	20.30	107.2	18.97	78.9
3		QPSK	21.00	125.9	19.73	94.0
		16QAM	20.40	109.6	19.04	80.2
5		QPSK	20.90	123.0	19.87	97.1
		16QAM	20.10	102.3	18.96	78.7
10		QPSK	21.00	125.9	19.88	97.3
		16QAM	20.70	117.5	19.38	86.7
15		QPSK	20.90	123.0	19.93	98.4
		16QAM	20.10	102.3	19.22	83.6
20		QPSK	20.90	123.0	20.37	108.9
		16QAM	20.00	100.0	19.53	89.7

OUTPUT POWER FOR LTE BAND 5 AND 26

Part 22 /RSS 132 LTE Band 5 and 26						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
1.4	824 - 849	QPSK	22.50	177.8	18.72	74.47
		16QAM	21.50	141.3	18.36	68.55
3		QPSK	22.50	177.8	18.68	73.79
		16QAM	21.60	144.5	18.35	68.39
5		QPSK	22.40	173.8	18.66	73.45
		16QAM	21.50	141.3	18.47	70.31
10		QPSK	22.50	177.8	18.82	76.21
		16QAM	21.60	144.5	17.97	62.66

OUTPUT POWER FOR LTE BAND 7

Part 27 / RSS199 LTE Band 7						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
5	2500 - 2570	QPSK	19.00	79.4	21.50	141.3
		16QAM	18.10	64.6	20.81	120.5
10		QPSK	19.00	79.4	21.98	157.8
		16QAM	18.20	66.1	21.35	136.5
15		QPSK	19.00	79.4	21.94	156.3
		16QAM	18.10	64.6	21.61	144.9
20		QPSK	19.00	79.4	21.96	157.0
		16QAM	18.10	64.6	21.42	138.7

OUTPUT POWER FOR LTE BAND 12

Part 27 /RSS 130 LTE Band 12						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	dBm
1.4	699-716	QPSK	23.40	218.8	16.06	40.36
		16QAM	22.60	182.0	15.76	37.67
3		QPSK	23.50	223.9	16.09	40.64
		16QAM	22.50	177.8	15.67	36.90
5		QPSK	23.50	223.9	16.18	41.50
		16QAM	22.60	182.0	15.87	38.64
10		QPSK	23.50	223.9	16.10	40.74
		16QAM	22.60	182.0	15.95	39.36

OUTPUT POWER FOR LTE BAND 13

Part 27 /RSS 130 LTE Band 13						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
5	777 - 787	QPSK	23.40	218.8	18.48	70.47
		16QAM	22.60	182.0	17.82	60.53
10		QPSK	23.40	218.8	18.04	63.68
		16QAM	22.40	173.8	17.44	55.46

OUTPUT POWER FOR LTE BAND 17

Part 27 /RSS 130 LTE Band 17						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)	
			dBm	mW	dBm	mW
5	704-716	QPSK	23.40	218.8	16.47	44.4
		16QAM	22.60	182.0	16.35	43.2
10		QPSK	23.50	223.9	16.53	45.0
		16QAM	22.60	182.0	16.34	43.1

OUTPUT POWER FOR LTE BAND 25

Part 24 / RSS 133 LTE Band 25						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
1.4	1850 - 1915	QPSK	21.00	125.9	21.43	139.0
		16QAM	20.10	102.3	21.34	136.1
3		QPSK	20.90	123.0	21.49	140.9
		16QAM	20.00	100.0	21.31	135.2
5		QPSK	21.00	125.9	21.73	148.9
		16QAM	19.90	97.7	21.50	141.3
10		QPSK	21.00	125.9	21.70	147.9
		16QAM	19.90	97.7	21.55	142.9
15		QPSK	21.00	125.9	21.76	150.0
		16QAM	20.00	100.0	21.51	141.6
20		QPSK	20.90	123.0	22.00	158.5
		16QAM	19.90	97.7	21.62	145.2

OUTPUT POWER FOR LTE BAND 26

Part 90 LTE Band 26								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
1.4	814-824	QPSK	22.50	177.8	18.61	72.6	20.76	119.1
		16QAM	21.60	144.5	18.37	68.7	20.52	112.7
3		QPSK	22.50	177.8	18.48	70.5	20.63	115.6
		16QAM	21.50	141.3	18.35	68.4	20.50	112.2
5		QPSK	22.50	177.8	18.64	73.1	20.79	119.9
		16QAM	21.50	141.3	18.43	69.7	20.58	114.3
10		QPSK	22.30	169.8	18.42	69.5	20.57	114.0
		16QAM	21.40	138.0	18.23	66.5	20.38	109.1

OUTPUT POWER FOR LTE BAND 27

Part 90 LTE Band 27								
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		ERP (Average)		EIRP (Average)	
			dBm	mW	dBm	mW	dBm	mW
1.4	814-824	QPSK	22.50	177.8	18.07	64.1	20.22	105.2
		16QAM	21.60	144.5	17.74	59.4	19.89	97.5
3		QPSK	22.40	173.8	18.16	65.5	20.31	107.4
		16QAM	21.50	141.3	17.70	58.9	19.85	96.6
5		QPSK	22.40	173.8	18.36	68.5	20.51	112.5
		16QAM	21.50	141.3	17.93	62.1	20.08	101.9
10		QPSK	22.50	177.8	17.39	54.8	19.54	89.9
		16QAM	21.50	141.3	17.33	54.1	19.48	88.7

OUTPUT POWER FOR LTE BAND 30

Part 27 / RSS 195 LTE Band 30						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
5	2305-2315	QPSK	20.00	100.0	20.68	116.9
		16QAM	19.30	85.1	20.54	113.2
10		QPSK	20.00	100.0	20.64	115.9
		16QAM	19.00	79.4	20.24	105.7

OUTPUT POWER FOR LTE BAND 41

Part 27 LTE Band 41						
Bandwidth (MHz)	Frequency Range	Modulation	Conducted (Average)		EIRP (Average)	
			dBm	mW	dBm	mW
5	2496-2690	QPSK	20.00	100.0	20.67	116.7
		16QAM	19.30	85.1	19.97	99.3
10		QPSK	20.00	100.0	20.45	110.9
		16QAM	19.30	85.1	19.75	94.4
15		QPSK	20.00	100.0	20.75	118.9
		16QAM	19.30	85.1	20.05	101.2
20		QPSK	20.00	100.0	20.54	113.2
		16QAM	19.30	85.1	19.80	95.5

5.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.26.02.

5.4. MAXIMUM ANTENNA GAIN

Please see table below:

LTE BANDS	Port A (LAT) Antenna Gain (dBi)	Port B (UAT) Antenna Gain (dBi)
LTE Band 2, 1850 – 1910 MHz	0.49	-1.43
LTE Band 4, 1710 – 1755 MHz	-1.08	-1.10
LTE Band 5, 824 – 849 MHz	-2.42	-3.65
LTE Band 7, 2500 – 2570 MHz	-0.23	0.59
LTE Band 12, 699 – 716 MHz	-2.52	-3.67
LTE Band 13, 777 – 787 MHz	-2.48	-4.14
LTE Band 17, 704 – 716 MHz	-2.52	-3.67
LTE Band 25, 1850 – 1915 MHz	0.49	-1.43
LTE Band 26, 814 – 824 MHz	-3.44	-3.69
LTE Band 27, 814 – 824 MHz	-3.44	-3.69
LTE Band 30, 2305 – 2315 MHz	-1.45	-2.20
LTE Band 41, 2496 – 2690 MHz	0.66	0.59

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case scenario for all measurements is based on the investigation results.

The device has LTE Bands of:

Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 17, Band 25, Band 26, Band 27, Band 30, and Band 41.

The RB Size was selected to measure for peak or average ERP and EIRP, which was based on the conducted power verification baseline data.

LTE Band 26 (824-849MHz) is covered by LTE Band 5 because of the same frequency range, output power, and supported bandwidths.

The fundamental of the EUT was investigated in three orthogonal orientations X/Y/Z, it was determined that Landscape orientation was worst-case orientation for cell bands without AC/DC adapter and headset; Flatbed orientation was worst-case orientation for pcs bands without AC/DC adapter and headset; Landscape orientation was worst orientation for Band 30, Band 41 and Band 7 without AC/DC adapter and headset.

5.6. DESCRIPTION OF TEST SETUP

TESTS SUPPORT EQUIPMENT

Support Equipment List			
Description	Manufacturer	Model	Serial Number
AC/DC adapter	APPLE	A1222	N/A
Laptop	Apple	MacBook Pro	730374GJAGW
DC power supply	Sorensen	XT 20-3	1318A00529

I/O CABLES (RF CONDUCTED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	3	US 115V	Un-shielded	2m	N/A
2	DC	1	DC	Un-shielded	1.4m	N/A
3	RF In/Out	1	EUT	Un-shielded	0.4m	N/A
4	RF In/Out	1	Barrel	N/A	N/A	N/A
5	RF In/Out	1	Communication Test Set	Un-shielded	1m	N/A

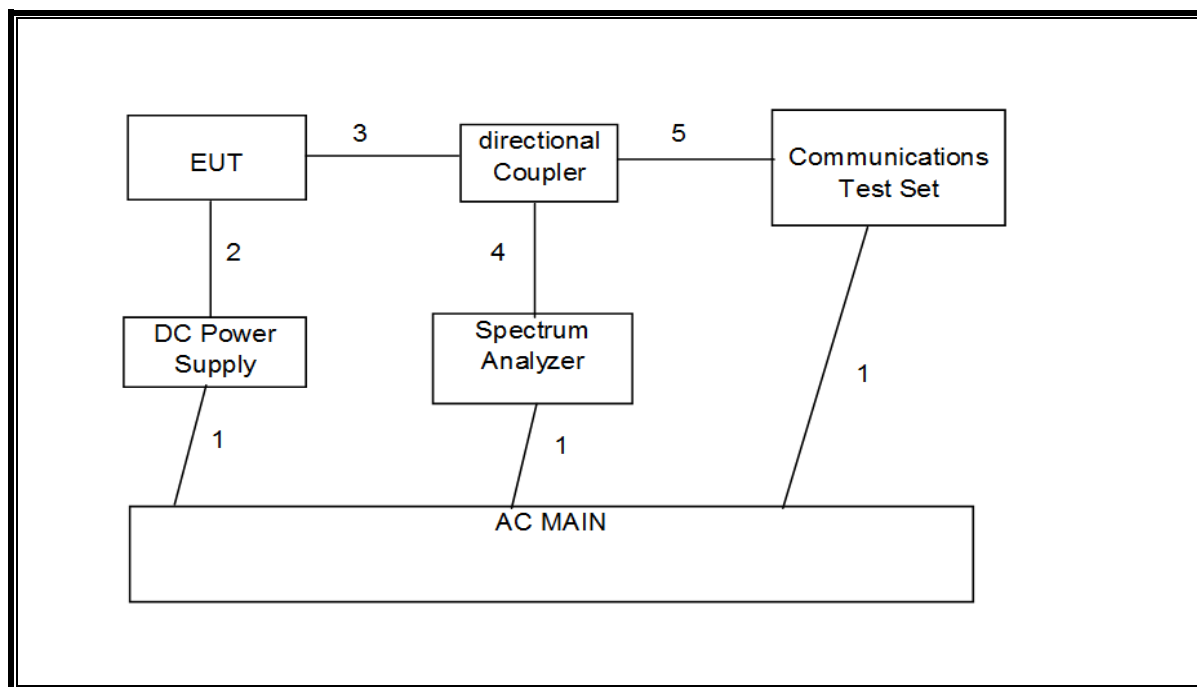
I/O CABLES (RF RADIATED TEST)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF In/Out	1	Antenna	Un-shielded	5m	NA

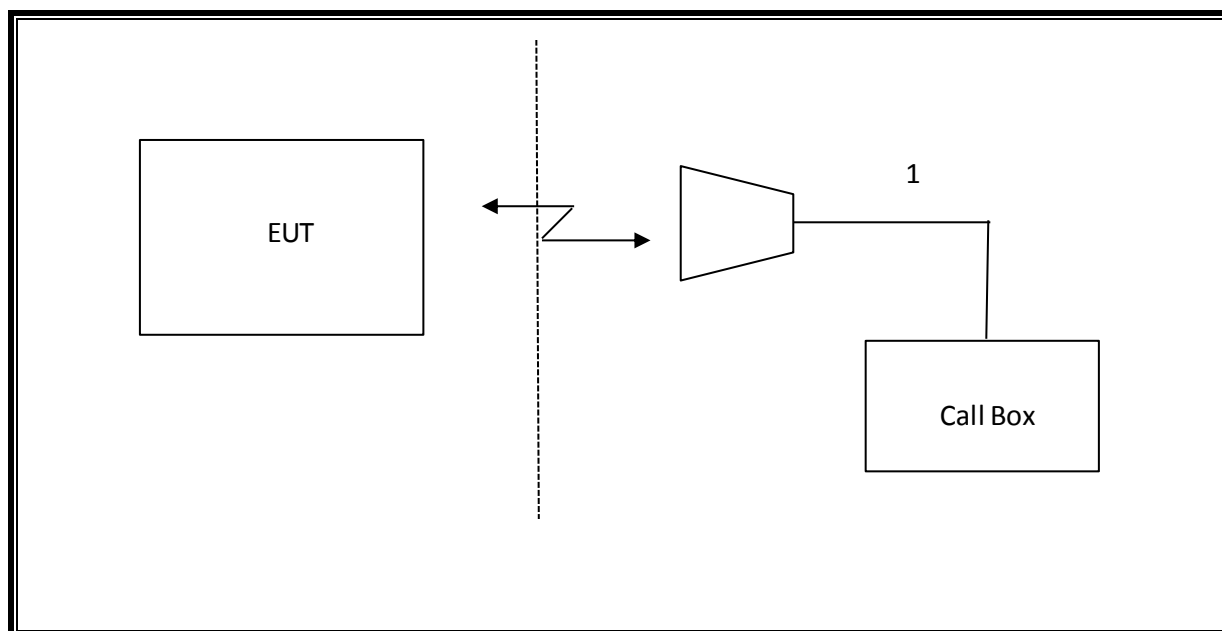
TEST SETUP

SETUP DIAGRAM FOR TESTS

CONDUCTED SETUP



RADIATED SETUP



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	T No.	Cal Due
Spectrum Analyzer, PSA, 3Hz to 44GHz	Agilent	E4446A	T123	10/21/16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T971	07/22/16
**Directional Coupler, 10dB SMA, 0.5GHz to 26.5GHz	Krytar	152610	T922	06/17/17
**P - Series Power Meter	Keysight	N1911A	T1245	05/03/17
**Wideband Power Sensor 50 MHz - 18 GHz	Keysight	N1921A	T1228	06/20/17
*Power Meter, P-series single channel	Keysight	N1911A	T1255	06/08/16
*Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight	N1921A	T1226	05/06/16
Spectrum Analyzer, PSA, 3Hz to 26.5GHz	Agilent	E4440A	T200	09/01/16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T954	05/03/17
Directional Coupler, 10dB SMA, 0.5GHz to 26.5GHz	Krytar	152613	T1538	04/11/17
Wireless Communications Test Set, 8960 Series 10	Agilent	E5515C	T211	11/18/16
Antenna, Horn 1-18GHz	Emco	3115	T59	11/18/16
**Tuned Dipole, 400 - 1000MHz	ETS Lindgren	3121C DB4	T273	05/16/17
**Filter, Highpass 4.0GHz	Micro-Tronics	HPM13351	T1239	06/24/17
**Filter, HPF 1.2GHz	Wainwright Instruments	WHKX1.2/15G-6ST	T1182	05/31/17
Chamber, Environmental	Cincinnati Sub Zero	ZPHS-8-3.5-SCT/WC	T754	09/14/16
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T1466	03/09/17
Directional Coupler, 10dB SMA, 0.5GHz to 26.5GHz	Krytar	152610	T1161	04/12/17
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	T340	11/15/16
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T712	01/12/17
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T408	10/27/16
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	T1113	11/08/16
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T259	10/22/16
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T711	01/12/17
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T243	09/24/16
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent	N9030A	T341	10/14/16
*Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	T260	07/09/16
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T344	02/22/17
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	T185	03/09/17
Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T742	01/31/17
**Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T173	06/17/17
**Amplifier, 1 - 18GHz	Miteq	AFS42-00101800-25-S-42	T491	05/31/17
*Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826	T447	05/18/16
**Amplifier, 10KHz to 1GHz, 32dB	Sonoma	310N	T834	06/17/17

NOTE: * testing is completed before equipment calibration expiration date.

**Equipment was set to test after May 2016 or June 2016.

7. RF POWER OUTPUT VERIFICATION

LTE Measurement Procedure:

All LTE bands conducted power peak and average are obtained from the CMW500 telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".3

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4, 10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10, 15, 20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23 ¹	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

7.1. LAT

7.1.1. LTE BAND 2

ID:	39472	Date:	5/28/16
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OUTPUT POWER FOR LTE BAND 2 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)
1.4	18607	1850.7	QPSK	1	0	24.8	28.8
				1	2	24.7	28.7
				1	5	24.7	28.8
				3	0	24.7	29.1
				3	1	24.6	29.0
				3	2	24.7	29.0
			16QAM	6	0	23.7	29.2
				1	0	24.0	28.9
				1	2	23.9	28.9
				1	5	24.0	28.9
				3	0	23.9	29.3
				3	1	23.9	29.1
				3	2	23.8	29.0
				6	0	22.8	29.1
1.4	18900	1880.0	QPSK	1	0	24.9	28.9
				1	2	24.9	28.8
				1	5	25.0	28.9
				3	0	24.9	29.2
				3	1	24.9	29.2
				3	2	24.9	29.1
			16QAM	6	0	24.0	29.4
				1	0	24.2	28.9
				1	2	24.1	28.9
				1	5	24.3	29.0
				3	0	24.1	29.3
				3	1	24.1	29.3
				3	2	24.1	29.4
				6	0	23.1	29.4
1.4	19193	1909.3	QPSK	1	0	25.0	28.7
				1	2	24.9	28.7
				1	5	25.0	28.7
				3	0	24.9	29.2
				3	1	24.9	28.9
				3	2	24.8	28.9
			16QAM	6	0	23.9	29.3
				1	0	24.2	28.9
				1	2	24.1	28.8
				1	5	24.1	28.9
				3	0	24.0	29.3
				3	1	24.0	29.0
				3	2	24.0	28.9
				6	0	23.0	29.1

OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	18615	1851.5	QPSK	1	0	24.7	28.8
				1	7	24.7	28.7
				1	14	24.7	28.7
				8	0	23.8	28.9
				8	4	23.7	28.8
				8	7	23.7	28.7
			16QAM	15	0	23.7	29.2
				1	0	24.1	28.8
				1	7	24.1	28.8
				1	14	24.0	28.8
				8	0	22.9	28.9
				8	4	22.8	28.7
3.0	18900	1880.0	QPSK	8	7	22.8	28.7
				15	0	22.8	29.1
				1	0	24.9	28.9
				1	7	25.0	28.8
				1	14	25.0	29.0
				8	0	23.9	29.0
			16QAM	8	4	23.9	28.9
				8	7	24.0	28.9
				15	0	24.0	29.4
				1	0	24.3	28.9
				1	7	24.4	28.9
				1	14	24.4	29.0
3.0	19185	1908.5	QPSK	8	0	23.0	29.0
				8	4	23.0	29.0
				8	7	23.2	29.0
				15	0	23.1	29.4
				1	0	24.9	28.8
				1	7	24.9	28.7
			16QAM	1	14	24.9	28.7
				8	0	23.9	29.0
				8	4	23.9	28.9
				8	7	24.0	28.8
				15	0	24.0	29.3
				1	0	24.1	28.9
3.0	19185	1908.5	QPSK	1	7	24.1	28.8
				1	14	24.1	28.8
				8	0	23.0	28.9
				8	4	23.1	28.9
				8	7	23.1	28.8
				15	0	23.0	29.1
			16QAM	1	0	24.1	28.8
				1	7	24.2	28.8
				1	14	24.1	28.8
				8	0	23.0	28.9
				8	4	23.1	28.9
				8	7	23.1	28.8

OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak(dBm)
				Size	Offset		
5.0	18625	1852.5	QPSK	1	0	24.7	28.6
				1	12	24.8	28.8
				1	24	24.7	28.5
				12	0	23.7	27.9
				12	6	23.8	27.6
				12	11	23.8	27.8
				25	0	23.8	29.2
			16QAM	1	0	24.2	28.7
				1	12	24.1	28.6
				1	24	24.1	28.6
				12	0	22.8	27.9
				12	6	22.9	27.7
				12	11	22.9	27.9
				25	0	22.9	29.0
5.0	18900	1880.0	QPSK	1	0	24.8	28.7
				1	12	24.9	28.8
				1	24	25.0	28.9
				12	0	23.9	28.1
				12	6	23.9	27.8
				12	11	24.0	28.1
				25	0	24.0	29.4
			16QAM	1	0	24.2	28.8
				1	12	24.3	28.8
				1	24	24.4	29.0
				12	0	23.0	28.0
				12	6	23.0	27.8
				12	11	23.1	28.0
				25	0	23.1	29.3
5.0	19175	1907.5	QPSK	1	0	24.9	28.8
				1	12	24.8	28.7
				1	24	24.9	28.7
				12	0	23.9	28.1
				12	6	23.9	27.7
				12	11	23.9	27.9
				25	0	23.9	29.3
			16QAM	1	0	24.3	29.0
				1	12	24.2	28.8
				1	24	24.2	28.7
				12	0	23.0	28.1
				12	6	23.0	27.8
				12	11	23.0	27.8
				25	0	23.0	29.1

OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	18650	1855.0	QPSK	1	0	24.8	28.6
				1	24	24.8	28.5
				1	49	24.9	28.6
				25	0	23.7	28.6
				25	12	23.7	28.5
				25	24	23.8	28.6
				50	0	23.7	29.4
			16QAM	1	0	23.9	28.7
				1	24	23.9	28.6
				1	49	24.0	28.6
				25	0	22.8	28.6
				25	12	22.8	28.5
				25	24	22.9	28.5
				50	0	22.8	29.2
10.0	18900	1880.0	QPSK	1	0	24.8	28.8
				1	24	24.8	28.8
				1	49	24.9	28.9
				25	0	23.9	28.8
				25	12	23.9	28.7
				25	24	24.0	29.0
				50	0	24.0	29.5
			16QAM	1	0	24.1	28.7
				1	24	24.1	28.7
				1	49	24.3	28.9
				25	0	23.0	28.8
				25	12	23.0	28.6
				25	24	23.1	28.9
				50	0	23.0	29.4
10.0	19150	1905.0	QPSK	1	0	25.0	28.9
				1	24	24.9	28.8
				1	49	24.9	28.6
				25	0	23.8	28.9
				25	12	23.9	28.8
				25	24	23.8	28.8
				50	0	23.9	29.5
			16QAM	1	0	24.3	29.0
				1	24	24.3	28.9
				1	49	24.3	28.7
				25	0	23.0	28.9
				25	12	23.0	28.7
				25	24	23.0	28.8
				50	0	23.0	29.4

OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	18675	1857.5	QPSK	1	0	24.7	28.7
				1	37	24.7	28.6
				1	74	24.8	28.8
				36	0	23.7	28.8
				36	16	23.8	28.5
				36	35	23.8	28.6
				75	0	23.9	29.7
			16-QAM	1	0	23.9	28.7
				1	37	24.0	28.5
				1	74	24.1	28.7
				36	0	22.8	28.8
				36	16	22.7	28.4
				36	35	22.7	28.3
				75	0	22.8	29.3
15.0	18900	1880.0	QPSK	1	0	24.8	28.7
				1	37	24.9	28.7
				1	74	24.9	28.8
				36	0	23.8	29.0
				36	16	23.7	28.7
				36	35	23.8	29.0
				75	0	23.8	29.7
			16-QAM	1	0	24.3	28.8
				1	37	24.2	28.7
				1	74	24.2	28.8
				36	0	22.8	28.7
				36	16	22.8	28.6
				36	35	22.9	28.9
				75	0	22.9	29.5
15.0	19125	1902.5	QPSK	1	0	25.0	28.7
				1	37	24.8	28.8
				1	74	24.8	28.4
				36	0	23.8	28.9
				36	16	23.7	28.8
				36	35	23.7	28.9
				75	0	23.8	29.6
			16-QAM	1	0	24.2	28.8
				1	37	24.0	28.9
				1	74	23.9	28.5
				36	0	22.7	28.7
				36	16	22.8	28.8
				36	35	22.8	28.9
				75	0	22.8	29.5

OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	18700	1860.0	QPSK	1	0	24.7	28.8
				1	49	24.8	28.8
				1	99	24.8	28.6
				50	0	23.8	28.9
				50	24	23.7	28.4
				50	49	23.7	28.7
				100	0	23.7	29.4
			16-QAM	1	0	23.7	28.4
				1	49	23.8	28.3
				1	99	24.0	28.4
				50	0	22.7	28.6
				50	24	22.7	28.4
				50	49	22.7	28.5
				100	0	22.8	29.4
20.0	18900	1880.0	QPSK	1	0	24.7	28.5
				1	49	24.6	28.4
				1	99	24.7	28.6
				50	0	23.7	28.8
				50	24	23.7	28.7
				50	49	23.8	29.0
				100	0	23.8	29.7
			16-QAM	1	0	24.0	28.6
				1	49	23.7	28.5
				1	99	23.9	28.7
				50	0	22.7	28.7
				50	24	22.8	28.6
				50	49	22.8	28.8
				100	0	22.8	29.6
20.0	19100	1900.0	QPSK	1	0	24.8	28.6
				1	49	24.7	28.6
				1	99	24.8	28.6
				50	0	23.5	28.5
				50	24	23.7	28.6
				50	49	23.5	28.8
				100	0	23.6	29.3
			16-QAM	1	0	24.1	28.6
				1	49	23.7	28.5
				1	99	23.8	28.3
				50	0	22.8	28.7
				50	24	22.7	28.5
				50	49	22.7	28.9
				100	0	22.8	29.4

7.1.2. LTE BAND 4

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OUTPUT POWER FOR LTE BAND 4 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	19957	1710.7	QPSK	1	0	24.8	28.7
				1	2	24.7	28.6
				1	5	24.8	28.7
				3	0	24.7	29.0
				3	1	24.7	29.0
				3	2	24.7	28.9
				6	0	23.8	29.2
			16QAM	1	0	24.0	28.7
				1	2	23.9	28.8
				1	5	24.0	28.8
				3	0	23.9	29.0
				3	1	23.9	29.2
				3	2	23.9	29.2
				6	0	23.0	29.1
1.4	20175	1732.5	QPSK	1	0	24.9	28.8
				1	2	24.9	28.7
				1	5	24.9	28.7
				3	0	24.8	29.1
				3	1	24.8	29.0
				3	2	24.8	29.0
				6	0	23.9	29.3
			16QAM	1	0	24.1	28.9
				1	2	24.1	28.9
				1	5	24.2	28.8
				3	0	24.0	29.2
				3	1	23.9	29.0
				3	2	24.0	29.0
				6	0	22.9	29.2
1.4	20393	1754.3	QPSK	1	0	24.8	29.0
				1	2	24.8	28.9
				1	5	24.9	28.9
				3	0	24.8	29.3
				3	1	24.8	29.1
				3	2	24.8	29.3
				6	0	23.9	29.3
			16QAM	1	0	24.3	29.0
				1	2	24.3	29.0
				1	5	24.3	29.0
				3	0	24.0	29.4
				3	1	24.0	29.3
				3	2	24.0	29.3
				6	0	23.0	29.3

OUTPUT POWER FOR LTE BAND 4 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	19965	1711.5	QPSK	1	0	24.8	28.7
				1	7	24.8	28.7
				1	14	24.7	28.7
				8	0	23.8	28.8
				8	4	23.8	28.7
				8	7	23.8	28.7
				15	0	23.8	29.2
			16QAM	1	0	24.1	28.8
				1	7	24.1	28.7
				1	14	24.1	28.7
				8	0	22.9	28.8
				8	4	22.9	28.7
				8	7	22.9	28.7
				15	0	22.9	29.1
3.0	20175	1732.5	QPSK	1	0	24.9	28.8
				1	7	25.0	28.7
				1	14	24.8	28.7
				8	0	23.9	29.0
				8	4	23.9	28.9
				8	7	23.9	28.9
				15	0	23.9	29.2
			16QAM	1	0	24.0	28.8
				1	7	24.1	28.8
				1	14	24.0	28.7
				8	0	23.0	29.0
				8	4	23.0	28.9
				8	7	23.0	28.9
				15	0	22.9	29.1
3.0	20385	1753.5	QPSK	1	0	24.7	28.9
				1	7	24.8	28.9
				1	14	24.8	28.9
				8	0	23.9	29.1
				8	4	23.8	29.0
				8	7	23.8	29.0
				15	0	23.8	29.3
			16QAM	1	0	24.2	28.9
				1	7	24.2	28.9
				1	14	24.3	29.0
				8	0	22.9	29.0
				8	4	22.9	28.9
				8	7	22.9	28.9
				15	0	22.8	26.7

OUTPUT POWER FOR LTE BAND 4 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	19975	1712.5	QPSK	1	0	24.8	28.7
				1	12	24.8	28.6
				1	24	24.8	28.7
				12	0	23.8	27.9
				12	6	23.9	27.6
				12	11	23.9	27.7
				25	0	23.9	29.2
			16QAM	1	0	24.1	28.7
				1	12	24.1	28.7
				1	24	24.1	28.7
				12	0	23.0	27.9
				12	6	23.0	27.6
				12	11	23.0	27.7
				25	0	23.0	29.0
5.0	20175	1732.5	QPSK	1	0	24.9	28.7
				1	12	24.9	28.7
				1	24	24.9	28.6
				12	0	24.0	28.1
				12	6	24.0	27.8
				12	11	24.0	27.9
				25	0	23.9	29.1
			16QAM	1	0	24.3	28.7
				1	12	24.3	28.7
				1	24	24.3	28.6
				12	0	23.1	28.1
				12	6	23.1	27.8
				12	11	23.1	27.9
				25	0	23.0	29.0
5.0	20375	1752.5	QPSK	1	0	24.8	28.7
				1	12	24.8	28.8
				1	24	24.9	28.9
				12	0	23.9	28.1
				12	6	23.9	27.9
				12	11	23.9	28.0
				25	0	23.9	29.2
			16QAM	1	0	24.3	28.8
				1	12	24.3	28.9
				1	24	24.3	28.9
				12	0	23.0	28.0
				12	6	23.0	27.9
				12	11	23.1	28.0
				25	0	23.0	29.1

OUTPUT POWER FOR LTE BAND 4 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20000	1715.0	QPSK	1	0	24.8	28.5
				1	24	24.8	28.6
				1	49	24.8	28.4
				25	0	23.7	28.6
				25	12	23.7	28.4
				25	24	23.7	28.4
				50	0	23.7	29.2
			16QAM	1	0	23.9	28.6
				1	24	23.9	28.6
				1	49	24.0	28.4
				25	0	22.8	28.5
				25	12	22.7	28.4
				25	24	22.8	28.4
				50	0	22.7	29.1
10.0	20175	1732.5	QPSK	1	0	24.7	28.5
				1	24	24.7	28.6
				1	49	24.8	28.5
				25	0	23.7	28.5
				25	12	23.8	28.3
				25	24	23.7	28.4
				50	0	23.7	29.1
			16QAM	1	0	24.2	28.6
				1	24	24.1	28.7
				1	49	24.0	28.4
				25	0	22.8	28.5
				25	12	22.8	28.3
				25	24	22.8	28.4
				50	0	22.8	28.9
10.0	20350	1750.0	QPSK	1	0	24.7	28.2
				1	24	24.7	28.6
				1	49	25.0	28.7
				25	0	23.8	28.5
				25	12	23.8	28.5
				25	24	23.7	28.5
				50	0	23.8	29.3
			16QAM	1	0	24.0	28.2
				1	24	24.1	28.6
				1	49	24.2	28.8
				25	0	22.8	28.3
				25	12	22.7	28.3
				25	24	22.8	28.5
				50	0	22.7	28.9

OUTPUT POWER FOR LTE BAND 4 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	20025	1717.5	QPSK	1	0	24.7	28.7
				1	37	24.7	28.6
				1	74	24.7	28.3
				36	0	23.7	28.8
				36	16	23.8	28.5
				36	35	23.8	28.5
				75	0	23.8	29.5
			16-QAM	1	0	24.2	28.8
				1	37	24.2	28.7
				1	74	24.1	28.4
				36	0	22.8	28.7
				36	16	22.9	28.5
				36	35	23.0	28.5
				75	0	22.9	29.4
15.0	20175	1732.5	QPSK	1	0	24.9	28.5
				1	37	24.9	28.8
				1	74	24.7	28.2
				36	0	23.8	28.6
				36	16	23.8	28.5
				36	35	23.8	28.6
				75	0	23.8	29.4
			16-QAM	1	0	24.2	28.3
				1	37	24.1	28.6
				1	74	24.0	28.2
				36	0	22.9	28.6
				36	16	22.9	28.5
				36	35	22.8	28.6
				75	0	22.9	29.3
15.0	20325	1747.5	QPSK	1	0	24.8	28.2
				1	37	24.8	28.5
				1	74	24.9	28.8
				36	0	23.7	28.5
				36	16	23.7	28.3
				36	35	23.7	28.5
				75	0	23.8	29.5
			16-QAM	1	0	23.9	28.2
				1	37	24.0	28.5
				1	74	24.2	28.9
				36	0	22.7	28.4
				36	16	22.8	28.2
				36	35	22.8	28.5
				75	0	22.9	29.4

OUTPUT POWER FOR LTE BAND 4 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	20050	1720.0	QPSK	1	0	24.9	28.6
				1	49	24.9	28.4
				1	99	24.8	28.4
				50	0	23.7	28.8
				50	24	23.7	28.5
				50	49	23.7	28.6
				100	0	23.7	29.4
			16-QAM	1	0	24.1	28.7
				1	49	24.2	28.5
				1	99	24.1	28.5
				50	0	22.8	28.7
				50	24	22.8	28.4
				50	49	22.7	28.5
				100	0	22.8	29.3
20.0	20175	1732.5	QPSK	1	0	24.8	28.4
				1	49	24.7	28.6
				1	99	24.7	28.3
				50	0	23.8	28.6
				50	24	23.8	28.5
				50	49	23.7	28.5
				100	0	23.7	29.3
			16-QAM	1	0	24.3	28.4
				1	49	24.1	28.7
				1	99	24.0	28.1
				50	0	22.8	28.5
				50	24	22.8	28.5
				50	49	22.7	28.5
				100	0	22.7	29.2
20.0	20300	1745.0	QPSK	1	0	24.9	28.5
				1	49	24.7	28.2
				1	99	24.9	28.8
				50	0	23.8	28.6
				50	24	23.8	28.4
				50	49	23.8	28.7
				100	0	23.7	29.5
			16-QAM	1	0	24.1	28.5
				1	49	23.8	28.2
				1	99	24.1	28.8
				50	0	22.7	28.3
				50	24	22.7	28.1
				50	49	22.7	28.5
				100	0	22.7	29.3

7.1.3. LTE BAND 5

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OUTPUT POWER FOR LTE BAND 5 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	20407	824.7	QPSK	1	0	23.9	29.0
				1	2	23.9	28.9
				1	5	23.8	29.0
				3	0	23.9	29.4
				3	1	23.9	29.3
				3	2	23.9	29.4
				6	0	22.9	28.9
			16QAM	1	0	23.3	29.0
				1	2	23.3	29.0
				1	5	23.2	28.8
				3	0	23.0	29.4
				3	1	23.0	29.5
				3	2	23.0	29.5
				6	0	21.9	28.7
1.4	20525	836.5	QPSK	1	0	24.0	28.9
				1	2	23.9	28.8
				1	5	23.9	28.8
				3	0	23.9	29.3
				3	1	23.9	29.3
				3	2	23.9	29.2
				6	0	22.9	28.8
			16QAM	1	0	23.1	29.0
				1	2	23.1	28.9
				1	5	23.1	28.9
				3	0	23.0	29.4
				3	1	23.0	29.4
				3	2	23.0	29.4
				6	0	22.0	28.7
1.4	20643	848.3	QPSK	1	0	23.8	28.6
				1	2	23.8	28.5
				1	5	23.8	28.7
				3	0	23.7	29.0
				3	1	23.7	29.0
				3	2	23.7	28.9
				6	0	22.7	28.7
			16QAM	1	0	23.0	28.8
				1	2	23.0	28.8
				1	5	23.0	28.8
				3	0	22.9	29.2
				3	1	22.9	29.2
				3	2	22.9	29.2
				6	0	21.8	28.5

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	20415	825.5	QPSK	1	0	23.8	29.0
				1	7	23.8	28.9
				1	14	23.8	28.8
				8	0	22.9	28.9
				8	4	22.8	28.7
				8	7	22.8	28.7
				15	0	22.9	28.8
			16QAM	1	0	23.2	29.1
				1	7	23.2	29.0
				1	14	23.1	29.0
				8	0	22.0	28.6
				8	4	21.9	28.5
				8	7	21.9	28.5
				15	0	21.8	28.6
3.0	20525	836.5	QPSK	1	0	23.8	28.9
				1	7	23.9	28.9
				1	14	24.0	29.0
				8	0	22.9	28.8
				8	4	22.9	28.7
				8	7	22.9	28.7
				15	0	22.9	28.8
			16QAM	1	0	23.2	28.8
				1	7	23.3	28.9
				1	14	23.3	28.9
				8	0	22.0	28.7
				8	4	21.9	28.7
				8	7	21.9	28.7
				15	0	21.9	28.7
3.0	20635	847.5	QPSK	1	0	23.7	28.5
				1	7	23.8	28.6
				1	14	23.8	28.6
				8	0	22.7	28.5
				8	4	22.8	28.5
				8	7	22.7	28.6
				15	0	22.8	28.6
			16QAM	1	0	22.9	28.6
				1	7	22.9	28.6
				1	14	23.0	28.7
				8	0	21.7	28.4
				8	4	21.8	28.4
				8	7	21.8	28.4
				15	0	21.7	28.4

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	20425	826.5	QPSK	1	0	23.9	28.9
				1	12	23.8	28.8
				1	24	23.8	28.7
				12	0	22.9	28.9
				12	6	22.9	28.8
				12	11	22.9	28.8
				25	0	22.9	29.0
			16QAM	1	0	23.3	29.1
				1	12	23.2	28.9
				1	24	23.2	28.8
				12	0	22.0	28.9
				12	6	22.0	28.8
				12	11	22.0	28.8
				25	0	21.9	28.9
5.0	20525	836.5	QPSK	1	0	24.0	28.7
				1	12	23.9	28.8
				1	24	23.9	28.8
				12	0	22.9	28.9
				12	6	23.0	28.9
				12	11	23.0	29.0
				25	0	23.0	29.0
			16QAM	1	0	23.2	28.7
				1	12	23.3	28.8
				1	24	23.3	28.8
				12	0	22.0	28.8
				12	6	22.1	28.8
				12	11	22.1	28.9
				25	0	22.0	29.0
5.0	20625	846.5	QPSK	1	0	23.9	28.5
				1	12	23.7	28.5
				1	24	23.8	28.6
				12	0	22.8	28.7
				12	6	22.8	28.6
				12	11	22.8	28.7
				25	0	22.8	28.8
			16QAM	1	0	23.2	28.7
				1	12	23.1	28.6
				1	24	23.1	28.7
				12	0	21.9	28.6
				12	6	21.9	28.5
				12	11	21.9	28.6
				25	0	21.9	28.7

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20450	829.0	QPSK	1	0	23.9	28.8
				1	24	23.8	28.5
				1	49	23.9	28.6
				25	0	22.8	28.8
				25	12	22.7	28.7
				25	24	22.8	28.8
				50	0	22.8	29.1
			16QAM	1	0	23.1	28.9
				1	24	22.9	28.6
				1	49	23.0	28.8
				25	0	21.8	28.8
				25	12	21.8	28.7
				25	24	21.9	28.7
				50	0	21.8	28.9
10.0	20525	836.5	QPSK	1	0	23.7	28.7
				1	24	23.8	28.8
				1	49	23.7	28.7
				25	0	22.8	28.9
				25	12	22.8	28.9
				25	24	22.8	28.9
				50	0	22.9	29.1
			16QAM	1	0	23.2	28.9
				1	24	23.2	28.9
				1	49	23.2	28.9
				25	0	21.9	28.8
				25	12	21.9	28.8
				25	24	21.9	28.9
				50	0	21.9	28.9
10.0	20600	844.0	QPSK	1	0	23.9	28.8
				1	24	23.7	28.6
				1	49	23.7	28.5
				25	0	22.8	28.9
				25	12	22.7	28.7
				25	24	22.7	28.7
				50	0	22.8	29.1
			16QAM	1	0	23.3	28.8
				1	24	23.1	28.5
				1	49	23.1	28.6
				25	0	21.9	28.9
				25	12	21.8	28.7
				25	24	21.8	28.7
				50	0	21.9	28.9

7.1.4. LTE BAND 7

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OUTPUT POWER FOR LTE BAND 7 (5.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	20775	2502.5	QPSK	1	0	24.7	28.0
				1	12	24.7	28.2
				1	24	24.9	28.5
				12	0	23.8	28.3
				12	6	23.8	28.1
				12	11	23.8	28.3
				25	0	23.8	29.0
			16QAM	1	0	23.8	27.8
				1	12	23.8	28.0
				1	24	24.1	28.3
				12	0	22.8	28.2
				12	6	22.7	27.9
				12	11	22.7	28.0
				25	0	22.7	28.6
5.0	21100	2535.0	QPSK	1	0	24.9	28.8
				1	12	24.9	28.9
				1	24	25.0	29.1
				12	0	24.0	28.9
				12	6	24.0	28.8
				12	11	24.0	28.9
				25	0	24.0	29.4
			16QAM	1	0	24.0	28.6
				1	12	24.0	28.5
				1	24	24.2	28.8
				12	0	23.1	28.9
				12	6	23.1	28.7
				12	11	23.2	28.9
				25	0	23.1	29.2
5.0	21425	2567.5	QPSK	1	0	25.0	29.0
				1	12	25.0	28.9
				1	24	24.9	28.9
				12	0	24.1	29.1
				12	6	24.0	28.9
				12	11	24.0	29.0
				25	0	24.0	29.5
			16QAM	1	0	24.3	28.8
				1	12	24.1	28.7
				1	24	24.0	28.7
				12	0	23.3	29.1
				12	6	23.2	29.0
				12	11	23.1	29.0
				25	0	23.1	29.5

OUTPUT POWER FOR LTE BAND 7 (10.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20800	2505.0	QPSK	1	0	24.8	28.1
				1	24	24.8	28.3
				1	49	24.9	28.8
				25	0	23.8	28.4
				25	12	23.8	28.2
				25	24	23.7	28.5
				50	0	23.8	29.2
			16QAM	1	0	23.7	27.9
				1	24	23.7	28.1
				1	49	24.0	28.6
				25	0	22.7	28.1
				25	12	22.8	28.2
				25	24	22.8	28.5
				50	0	22.7	28.9
10.0	21100	2535.0	QPSK	1	0	24.8	28.7
				1	24	24.7	28.6
				1	49	24.9	29.0
				25	0	23.7	28.6
				25	12	23.8	28.6
				25	24	23.9	29.0
				50	0	23.8	29.4
			16QAM	1	0	23.8	28.4
				1	24	24.0	28.5
				1	49	24.2	28.9
				25	0	22.8	28.6
				25	12	22.9	28.4
				25	24	23.0	28.9
				50	0	22.9	29.2
10.0	21400	2565.0	QPSK	1	0	24.8	28.5
				1	24	25.0	28.9
				1	49	24.8	28.8
				25	0	23.8	28.8
				25	12	23.9	28.8
				25	24	23.8	28.9
				50	0	23.9	29.4
			16QAM	1	0	23.9	28.3
				1	24	24.2	28.7
				1	49	24.0	28.7
				25	0	23.0	28.8
				25	12	23.0	28.8
				25	24	23.0	29.0
				50	0	23.0	29.4

OUTPUT POWER FOR LTE BAND 7 (15.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	20825	2507.5	QPSK	1	0	24.7	28.2
				1	37	24.7	28.6
				1	74	24.7	28.9
				36	0	23.7	28.5
				36	16	23.7	28.5
				36	35	23.8	29.0
				75	0	23.8	29.5
			16-QAM	1	0	23.8	27.9
				1	37	24.1	28.7
				1	74	24.2	29.0
				36	0	22.8	28.3
				36	16	22.8	28.4
				36	35	22.8	28.9
				75	0	22.9	29.4
15.0	21100	2535.0	QPSK	1	0	24.7	28.5
				1	37	24.9	28.8
				1	74	25.0	29.1
				36	0	23.7	28.7
				36	16	23.8	28.6
				36	35	23.9	29.0
				75	0	23.8	29.7
			16-QAM	1	0	24.0	28.5
				1	37	24.3	28.8
				1	74	24.3	29.1
				36	0	22.7	28.7
				36	16	22.9	28.6
				36	35	23.0	29.0
				75	0	22.9	29.6
15.0	21375	2562.5	QPSK	1	0	24.7	28.2
				1	37	24.9	28.7
				1	74	24.8	28.8
				36	0	23.7	28.7
				36	16	23.8	28.6
				36	35	23.9	29.0
				75	0	23.8	29.6
			16-QAM	1	0	23.8	28.3
				1	37	24.1	28.8
				1	74	24.0	29.0
				36	0	22.8	28.7
				36	16	22.9	28.6
				36	35	23.0	29.0
				75	0	22.9	29.5

OUTPUT POWER FOR LTE BAND 7 (20.0 MHZ)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	20850	2510.0	QPSK	1	0	24.7	28.1
				1	49	24.9	29.0
				1	99	24.8	28.9
				50	0	23.7	28.6
				50	24	23.7	28.6
				50	49	23.7	29.0
				100	0	23.7	29.3
			16-QAM	1	0	23.8	27.9
				1	49	24.1	28.8
				1	99	23.9	28.6
				50	0	22.8	28.5
				50	24	22.7	28.6
				50	49	22.8	29.0
				100	0	22.8	29.3
20.0	21100	2535.0	QPSK	1	0	24.8	28.6
				1	49	24.9	28.6
				1	99	25.0	29.0
				50	0	23.8	28.8
				50	24	23.7	28.7
				50	49	23.8	29.1
				100	0	23.8	29.6
			16-QAM	1	0	23.8	28.4
				1	49	24.0	28.7
				1	99	24.2	29.1
				50	0	22.7	28.6
				50	24	22.8	28.6
				50	49	22.9	29.1
				100	0	22.8	29.6
20.0	21350	2560.0	QPSK	1	0	24.8	28.6
				1	49	24.7	28.4
				1	99	24.7	28.7
				50	0	23.7	28.7
				50	24	23.8	28.6
				50	49	23.8	28.9
				100	0	23.7	29.5
			16-QAM	1	0	23.9	28.5
				1	49	23.9	28.4
				1	99	24.1	28.8
				50	0	22.8	28.7
				50	24	22.7	28.4
				50	49	22.8	28.9
				100	0	22.8	29.5

7.1.5. LTE BAND 12

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OUTPUT POWER FOR LTE BAND 12 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	23017	699.7	QPSK	1	0	24.9	28.8
				1	2	24.8	28.8
				1	5	24.9	28.8
				3	0	24.9	29.1
				3	1	24.9	29.1
				3	2	24.9	29.0
				6	0	23.9	29.4
			16QAM	1	0	24.1	28.8
				1	2	24.1	28.8
				1	5	24.2	28.9
				3	0	24.1	29.2
				3	1	24.1	29.1
				3	2	24.1	29.1
				6	0	23.0	29.2
1.4	23095	707.5	QPSK	1	0	25.0	28.8
				1	2	24.9	28.7
				1	5	24.9	28.7
				3	0	24.9	29.1
				3	1	24.9	29.1
				3	2	24.9	29.1
				6	0	24.0	29.2
			16QAM	1	0	24.3	28.7
				1	2	24.2	28.7
				1	5	24.2	28.6
				3	0	24.1	29.3
				3	1	24.1	29.1
				3	2	24.1	29.1
				6	0	23.1	29.4
1.4	23173	715.3	QPSK	1	0	25.0	28.7
				1	2	24.9	28.6
				1	5	24.9	28.5
				3	0	25.0	29.1
				3	1	25.0	28.7
				3	2	25.0	29.0
				6	0	24.1	29.2
			16QAM	1	0	24.3	28.6
				1	2	24.2	28.5
				1	5	24.2	28.4
				3	0	24.2	29.1
				3	1	24.2	29.0
				3	2	24.2	28.8
				6	0	23.1	29.1

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	23025	700.5	QPSK	1	0	24.8	28.7
				1	7	24.8	28.8
				1	14	24.7	28.7
				8	0	23.9	29.0
				8	4	23.9	28.9
				8	7	23.9	28.8
				15	0	23.9	29.2
			16QAM	1	0	24.2	28.8
				1	7	24.3	28.8
				1	14	24.2	28.7
				8	0	23.0	28.9
				8	4	23.0	28.8
				8	7	23.0	28.7
				15	0	22.9	29.1
3.0	23095	707.5	QPSK	1	0	24.9	28.8
				1	7	24.8	28.6
				1	14	24.7	28.7
				8	0	24.0	28.9
				8	4	23.9	28.7
				8	7	23.9	28.7
				15	0	23.9	29.4
			16QAM	1	0	24.3	28.9
				1	7	24.2	28.8
				1	14	24.2	28.9
				8	0	23.0	28.9
				8	4	23.0	28.7
				8	7	23.0	28.9
				15	0	23.0	29.2
3.0	23165	714.5	QPSK	1	0	24.9	28.8
				1	7	25.0	28.6
				1	14	24.8	28.3
				8	0	24.0	29.1
				8	4	24.0	28.8
				8	7	23.9	28.9
				15	0	24.0	29.5
			16QAM	1	0	24.1	28.8
				1	7	24.1	28.7
				1	14	24.0	28.4
				8	0	23.1	29.0
				8	4	23.1	28.8
				8	7	23.1	28.9
				15	0	23.0	29.6

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23035	701.5	QPSK	1	0	24.9	28.5
				1	12	24.8	28.4
				1	24	24.9	28.5
				12	0	23.7	28.7
				12	6	23.7	28.4
				12	11	23.8	28.6
				25	0	23.8	29.2
			16QAM	1	0	23.8	28.5
				1	12	23.8	28.4
				1	24	23.9	28.5
				12	0	22.9	28.8
				12	6	22.8	28.4
				12	11	22.9	28.6
				25	0	22.8	29.4
5.0	23095	707.5	QPSK	1	0	24.7	28.6
				1	12	24.7	28.4
				1	24	24.7	28.4
				12	0	23.8	28.8
				12	6	23.8	28.4
				12	11	23.7	28.6
				25	0	23.7	29.2
			16QAM	1	0	24.0	28.6
				1	12	23.9	28.4
				1	24	23.9	28.4
				12	0	22.9	28.7
				12	6	22.8	28.4
				12	11	22.9	28.5
				25	0	22.8	29.1
5.0	23155	713.5	QPSK	1	0	24.8	28.5
				1	12	24.8	28.5
				1	24	24.7	28.3
				12	0	23.7	28.8
				12	6	23.8	28.8
				12	11	23.8	28.7
				25	0	23.7	29.1
			16QAM	1	0	24.0	28.4
				1	12	24.0	28.5
				1	24	23.9	28.3
				12	0	22.8	28.7
				12	6	22.9	28.7
				12	11	22.8	28.7
				25	0	22.8	29.4

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23060	704.0	QPSK	1	0	24.8	28.7
				1	24	24.9	28.7
				1	49	24.9	28.6
				25	0	23.9	29.1
				25	12	23.9	28.9
				25	24	23.9	29.0
				50	0	24.0	29.7
			16QAM	1	0	24.2	28.7
				1	24	24.3	28.7
				1	49	24.2	28.6
				25	0	23.0	28.9
				25	12	23.0	28.8
				25	24	23.0	28.8
				50	0	23.1	29.6
10.0	23095	707.5	QPSK	1	0	24.9	28.7
				1	24	24.8	28.5
				1	49	24.8	28.6
				25	0	23.9	29.0
				25	12	23.9	28.8
				25	24	23.9	29.0
				50	0	24.0	29.5
			16QAM	1	0	24.1	28.8
				1	24	24.0	28.6
				1	49	24.0	28.7
				25	0	23.0	29.1
				25	12	23.0	28.7
				25	24	23.0	28.9
				50	0	23.1	29.4
10.0	23130	711.0	QPSK	1	0	25.0	28.6
				1	24	24.9	28.6
				1	49	25.0	28.5
				25	0	24.0	29.1
				25	12	23.9	28.8
				25	24	24.0	29.1
				50	0	24.0	29.6
			16QAM	1	0	24.3	28.7
				1	24	24.2	28.7
				1	49	24.3	28.6
				25	0	23.0	29.0
				25	12	23.0	28.8
				25	24	23.1	29.1
				50	0	23.1	29.4

7.1.6. LTE BAND 13

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OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23207	779.5	QPSK	1	0	24.8	28.4
				1	12	24.9	28.5
				1	24	24.9	29.1
				12	0	23.8	28.9
				12	6	23.9	28.9
				12	11	23.8	29.0
			16QAM	25	0	23.9	29.4
				1	0	24.0	28.3
				1	12	24.1	28.1
				1	24	24.3	28.8
				12	0	22.9	28.7
				12	6	22.9	28.7
				12	11	22.9	28.8
				25	0	22.9	28.9
5.0	23230	782.0	QPSK	1	0	25.0	28.5
				1	12	24.9	28.9
				1	24	24.8	28.4
				12	0	23.8	29.2
				12	6	23.8	29.4
				12	11	23.9	29.3
			16QAM	25	0	23.9	29.4
				1	0	24.0	28.1
				1	12	24.2	28.6
				1	24	23.9	28.0
				12	0	22.8	29.2
				12	6	22.8	29.4
				12	11	22.8	29.2
				25	0	22.9	29.3
5.0	23255	784.5	QPSK	1	0	24.9	29.0
				1	12	24.7	28.1
				1	24	24.8	28.1
				12	0	23.8	29.1
				12	6	23.9	28.8
				12	11	23.8	28.7
			16QAM	25	0	23.8	29.6
				1	0	24.1	28.7
				1	12	23.9	27.9
				1	24	24.0	27.9
				12	0	22.8	29.1
				12	6	22.9	28.8
				12	11	22.9	28.7
				25	0	23.0	29.4

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23230	782.0	QPSK	1	0	25.0	28.4
				1	24	24.9	29.1
				1	49	24.9	28.4
				25	0	24.1	29.0
				25	12	24.1	29.2
				25	24	24.1	29.3
				50	0	24.3	29.9
			16QAM	1	0	24.2	28.4
				1	24	24.2	29.2
				1	49	24.2	28.4
				25	0	23.1	29.0
				25	12	23.0	29.3
				25	24	23.1	29.6
				50	0	23.2	29.8

7.1.7. LTE BAND 17

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OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23755	706.5	QPSK	1	0	25.0	28.8
				1	12	24.9	28.7
				1	24	24.8	28.7
				12	0	23.9	29.0
				12	6	24.0	28.9
				12	11	23.9	28.8
				25	0	23.9	29.3
			16QAM	1	0	24.3	28.5
				1	12	24.2	28.4
				1	24	24.1	28.4
				12	0	23.0	28.9
				12	6	23.1	28.8
				12	11	23.1	28.8
				25	0	23.0	29.2
5.0	23790	710.0	QPSK	1	0	24.9	28.5
				1	12	24.9	28.5
				1	24	24.9	28.5
				12	0	23.9	29.0
				12	6	23.9	28.8
				12	11	23.8	28.9
				25	0	23.9	29.3
			16QAM	1	0	24.2	28.4
				1	12	24.2	28.4
				1	24	24.2	28.4
				12	0	23.0	28.9
				12	6	23.0	28.7
				12	11	23.0	28.8
				25	0	23.0	29.2
5.0	23825	713.5	QPSK	1	0	24.9	28.5
				1	12	24.9	28.5
				1	24	24.8	28.3
				12	0	23.9	29.0
				12	6	23.9	29.0
				12	11	23.9	29.0
				25	0	24.0	29.4
			16QAM	1	0	24.2	28.4
				1	12	24.3	28.5
				1	24	24.2	28.4
				12	0	23.0	28.7
				12	6	23.0	28.7
				12	11	23.0	28.7
				25	0	23.0	29.4

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23780	709.0	QPSK	1	0	24.9	28.7
				1	24	24.8	28.6
				1	49	24.9	28.5
				25	0	23.9	28.9
				25	12	23.8	28.8
				25	24	23.9	28.9
				50	0	24.0	29.5
			16QAM	1	0	24.3	28.7
				1	24	24.1	28.7
				1	49	24.3	28.6
				25	0	23.0	28.9
				25	12	22.9	28.8
				25	24	23.0	28.9
				50	0	23.1	29.4
10.0	23790	710.0	QPSK	1	0	25.0	28.6
				1	24	24.9	28.5
				1	49	25.0	28.6
				25	0	23.9	29.0
				25	12	23.9	28.8
				25	24	23.9	29.0
				50	0	24.0	29.6
			16QAM	1	0	24.3	28.7
				1	24	24.2	28.6
				1	49	24.3	28.7
				25	0	23.0	28.9
				25	12	23.0	28.8
				25	24	22.9	28.9
				50	0	23.0	29.5
10.0	23800	711.0	QPSK	1	0	24.9	28.6
				1	24	24.8	28.6
				1	49	24.8	28.5
				25	0	23.9	29.1
				25	12	23.9	28.9
				25	24	24.0	29.1
				50	0	24.0	29.5
			16QAM	1	0	24.0	28.6
				1	24	24.0	28.6
				1	49	24.0	28.5
				25	0	23.0	29.0
				25	12	23.0	28.9
				25	24	23.1	29.0
				50	0	23.1	29.5

7.1.8. LTE BAND 25

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OUTPUT POWER FOR LTE BAND 25 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	26047	1850.7	QPSK	1	0	23.7	27.1
				1	2	23.7	27.2
				1	5	23.7	27.1
				3	0	23.7	27.5
				3	1	23.7	27.4
				3	2	23.7	27.4
				6	0	22.7	27.9
			16QAM	1	0	23.3	27.1
				1	2	23.2	27.2
				1	5	23.3	27.1
				3	0	22.9	27.5
				3	1	22.9	27.6
				3	2	22.9	27.6
				6	0	21.9	27.7
1.4	26365	1882.5	QPSK	1	0	24.0	27.6
				1	2	23.9	27.6
				1	5	24.0	27.7
				3	0	23.9	28.0
				3	1	23.9	28.1
				3	2	23.9	28.1
				6	0	23.0	28.2
			16QAM	1	0	23.1	27.5
				1	2	23.1	27.7
				1	5	23.1	27.5
				3	0	23.2	28.1
				3	1	23.1	28.2
				3	2	23.1	28.2
				6	0	22.1	28.2
1.4	26683	1914.3	QPSK	1	0	24.0	27.1
				1	2	23.9	27.1
				1	5	24.0	26.9
				3	0	23.8	27.4
				3	1	23.7	27.3
				3	2	23.8	27.2
				6	0	22.9	28.2
			16QAM	1	0	23.1	27.2
				1	2	23.1	27.3
				1	5	23.1	26.9
				3	0	23.0	27.6
				3	1	23.0	27.6
				3	2	23.0	27.2
				6	0	22.0	28.2

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	26055	1851.5	QPSK	1	0	23.8	27.1
				1	7	23.8	27.1
				1	14	23.9	27.3
				8	0	22.7	27.4
				8	4	22.7	27.2
				8	7	22.7	27.2
				15	0	22.7	27.9
			16QAM	1	0	22.9	27.2
				1	7	23.0	27.2
				1	14	23.0	27.4
				8	0	21.8	27.4
				8	4	21.8	27.3
				8	7	21.8	27.2
				15	0	21.7	27.8
3.0	26365	1882.5	QPSK	1	0	23.9	27.5
				1	7	24.0	27.5
				1	14	23.9	27.6
				8	0	23.0	27.7
				8	4	23.0	27.6
				8	7	23.0	27.6
				15	0	23.0	28.4
			16QAM	1	0	23.2	27.4
				1	7	23.3	27.5
				1	14	23.2	27.4
				8	0	22.0	27.8
				8	4	22.0	27.6
				8	7	22.0	27.6
				15	0	22.1	28.4
3.0	26675	1913.5	QPSK	1	0	23.8	27.3
				1	7	23.8	27.0
				1	14	23.8	27.1
				8	0	22.8	27.6
				8	4	22.8	27.6
				8	7	22.9	27.4
				15	0	22.9	28.0
			16QAM	1	0	23.1	27.4
				1	7	23.1	27.2
				1	14	23.0	27.0
				8	0	21.9	27.4
				8	4	21.9	27.4
				8	7	21.9	27.4
				15	0	21.9	27.8

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	26065	1852.5	QPSK	1	0	23.7	27.2
				1	12	23.7	27.3
				1	24	23.8	27.4
				12	0	22.8	27.7
				12	6	22.9	27.6
				12	11	22.9	27.8
				25	0	22.9	28.3
			16QAM	1	0	22.9	27.0
				1	12	22.9	27.2
				1	24	23.1	27.3
				12	0	21.9	27.6
				12	6	22.0	27.5
				12	11	22.0	27.7
				25	0	21.9	28.1
5.0	26365	1882.5	QPSK	1	0	24.0	27.5
				1	12	24.0	27.5
				1	24	23.9	27.4
				12	0	23.0	27.9
				12	6	23.1	27.8
				12	11	23.1	27.9
				25	0	23.1	28.6
			16QAM	1	0	23.2	27.4
				1	12	23.2	27.4
				1	24	23.2	27.4
				12	0	22.2	27.7
				12	6	22.2	27.6
				12	11	22.2	27.7
				25	0	22.2	28.4
5.0	26665	1912.5	QPSK	1	0	23.9	27.3
				1	12	23.8	27.1
				1	24	23.9	26.9
				12	0	22.9	27.6
				12	6	22.8	27.3
				12	11	22.9	27.5
				25	0	22.9	27.9
			16QAM	1	0	23.3	27.2
				1	12	23.2	26.9
				1	24	23.2	26.7
				12	0	21.9	27.6
				12	6	21.9	27.3
				12	11	21.9	27.5
				25	0	21.9	27.7

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	26090	1855.0	QPSK	1	0	23.7	27.2
				1	24	23.9	27.3
				1	49	23.9	27.4
				25	0	22.8	27.8
				25	12	22.8	27.7
				25	24	22.8	27.8
				50	0	22.8	28.3
			16QAM	1	0	22.9	27.0
				1	24	23.1	27.4
				1	49	23.1	27.5
				25	0	21.8	27.7
				25	12	21.8	27.7
				25	24	21.8	27.7
				50	0	21.9	28.4
10.0	26365	1882.5	QPSK	1	0	24.0	27.4
				1	24	24.0	27.4
				1	49	23.9	27.5
				25	0	22.9	27.8
				25	12	22.9	27.7
				25	24	22.9	27.8
				50	0	22.9	28.6
			16QAM	1	0	23.2	27.1
				1	24	23.2	27.3
				1	49	23.2	27.2
				25	0	22.0	27.7
				25	12	22.0	27.7
				25	24	22.0	27.7
				50	0	22.0	28.3
10.0	26640	1910.0	QPSK	1	0	23.8	27.3
				1	24	23.7	27.1
				1	49	23.7	26.7
				25	0	22.8	27.8
				25	12	22.8	27.2
				25	24	22.7	27.6
				50	0	22.8	28.0
			16QAM	1	0	22.9	27.2
				1	24	22.8	27.1
				1	49	22.8	27.1
				25	0	21.9	27.7
				25	12	21.8	27.4
				25	24	21.7	27.6
				50	0	21.9	28.0

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	26115	1857.5	QPSK	1	0	23.7	27.2
				1	37	23.7	27.3
				1	74	23.8	27.5
				36	0	22.8	27.9
				36	16	22.7	27.6
				36	35	22.7	27.6
				75	0	22.7	28.5
			16-QAM	1	0	22.8	27.0
				1	37	23.0	27.4
				1	74	22.9	27.4
				36	0	21.9	27.9
				36	16	21.8	27.6
				36	35	21.8	27.6
				75	0	21.7	28.3
15.0	26365	1882.5	QPSK	1	0	23.9	27.4
				1	37	23.9	27.4
				1	74	23.9	27.6
				36	0	22.9	27.9
				36	16	22.9	27.8
				36	35	22.8	27.9
				75	0	22.9	28.7
			16-QAM	1	0	23.1	27.3
				1	37	23.1	27.4
				1	74	23.1	27.5
				36	0	22.0	27.9
				36	16	22.0	27.8
				36	35	21.9	27.9
				75	0	22.0	28.6
15.0	26615	1907.5	QPSK	1	0	24.0	27.5
				1	37	23.9	27.2
				1	74	23.7	26.7
				36	0	22.8	28.0
				36	16	22.8	27.9
				36	35	22.7	27.8
				75	0	22.9	28.7
			16-QAM	1	0	23.2	27.5
				1	37	23.1	27.3
				1	74	23.1	27.1
				36	0	21.9	27.8
				36	16	21.8	27.6
				36	35	21.8	27.5
				75	0	22.0	28.6

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	26140	1860.0	QPSK	1	0	23.9	26.9
				1	49	24.0	27.2
				1	99	24.0	27.2
				50	0	22.7	27.6
				50	24	22.8	27.5
				50	49	22.7	27.5
				100	0	22.7	28.5
			16-QAM	1	0	22.9	26.7
				1	49	23.0	27.1
				1	99	23.0	27.2
				50	0	21.9	27.9
				50	24	21.8	27.4
				50	49	21.8	27.6
				100	0	21.8	28.3
20.0	26365	1882.5	QPSK	1	0	23.8	27.6
				1	49	23.9	27.6
				1	99	23.9	27.9
				50	0	22.7	27.6
				50	24	22.7	27.7
				50	49	22.8	27.9
				100	0	22.7	28.5
			16-QAM	1	0	23.1	27.3
				1	49	23.2	27.3
				1	99	23.2	27.6
				50	0	21.8	27.7
				50	24	21.8	27.7
				50	49	21.7	27.7
				100	0	21.8	28.4
20.0	26590	1905.0	QPSK	1	0	23.9	27.6
				1	49	23.8	27.1
				1	99	23.8	26.9
				50	0	22.7	27.7
				50	24	22.8	28.0
				50	49	22.8	28.0
				100	0	23.0	28.9
			16-QAM	1	0	22.9	27.5
				1	49	22.9	27.0
				1	99	22.9	26.8
				50	0	21.7	27.7
				50	24	21.8	27.9
				50	49	21.8	27.9
				100	0	22.0	28.7

7.1.9. LTE BAND 26

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OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	26697	814.7	QPSK	1	0	24.0	27.7
				1	2	24.0	27.6
				1	5	24.0	27.7
				3	0	23.9	27.9
				3	1	24.0	27.8
				3	2	23.9	27.8
				6	0	23.1	28.4
			16QAM	1	0	23.2	27.5
				1	2	23.2	27.6
				1	5	23.2	27.5
				3	0	23.1	28.0
				3	1	23.1	28.0
				3	2	23.1	28.0
				6	0	22.2	28.1
1.4	26740	819.0	QPSK	1	0	24.0	27.8
				1	2	24.0	27.7
				1	5	23.9	27.8
				3	0	23.9	28.2
				3	1	23.9	28.0
				3	2	23.9	28.0
				6	0	23.0	28.1
			16QAM	1	0	23.3	27.7
				1	2	23.2	27.7
				1	5	23.3	27.7
				3	0	23.0	28.1
				3	1	23.0	28.1
				3	2	23.0	28.1
				6	0	22.0	28.2
1.4	26783	823.3	QPSK	1	0	23.9	27.6
				1	2	23.8	27.5
				1	5	23.8	27.5
				3	0	23.9	27.9
				3	1	23.9	27.8
				3	2	23.9	27.8
				6	0	22.9	28.1
			16QAM	1	0	23.3	27.6
				1	2	23.2	27.6
				1	5	23.3	27.5
				3	0	23.0	28.0
				3	1	22.9	28.1
				3	2	22.9	28.0
				6	0	21.9	28.2

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	26705	815.5	QPSK	1	0	24.0	27.6
				1	7	24.0	27.5
				1	14	23.9	27.5
				8	0	23.0	27.9
				8	4	23.0	27.6
				8	7	23.0	27.6
				15	0	23.0	28.5
			16QAM	1	0	23.3	27.6
				1	7	23.3	27.6
				1	14	23.2	27.5
				8	0	22.1	27.7
				8	4	22.1	27.5
				8	7	22.1	27.6
				15	0	22.0	28.1
3.0	26740	819.0	QPSK	1	0	23.9	27.7
				1	7	23.8	27.6
				1	14	23.7	27.7
				8	0	23.0	27.9
				8	4	22.9	27.7
				8	7	22.9	27.7
				15	0	22.9	28.2
			16QAM	1	0	23.3	27.9
				1	7	23.2	27.6
				1	14	23.2	27.7
				8	0	22.0	27.8
				8	4	21.9	27.6
				8	7	21.9	27.5
				15	0	22.0	28.5
3.0	26775	822.5	QPSK	1	0	23.9	27.6
				1	7	23.9	27.5
				1	14	23.8	27.4
				8	0	22.9	27.8
				8	4	22.9	27.6
				8	7	22.8	27.6
				15	0	22.9	28.1
			16QAM	1	0	23.0	27.6
				1	7	23.0	27.6
				1	14	22.9	27.5
				8	0	22.0	27.8
				8	4	21.9	27.6
				8	7	21.9	27.7
				15	0	21.8	28.0

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	26715	816.5	QPSK	1	0	24.0	27.5
				1	12	23.9	27.4
				1	24	23.9	27.4
				12	0	23.0	27.8
				12	6	23.0	27.5
				12	11	23.0	27.7
				25	0	23.0	28.6
			16QAM	1	0	23.1	27.4
				1	12	23.0	27.4
				1	24	23.0	27.4
				12	0	22.2	27.7
				12	6	22.1	27.5
				12	11	22.1	27.6
				25	0	22.0	28.1
5.0	26740	819.0	QPSK	1	0	24.0	27.7
				1	12	23.9	27.4
				1	24	23.8	27.5
				12	0	23.0	27.8
				12	6	22.9	27.7
				12	11	22.8	27.7
				25	0	22.9	28.3
			16QAM	1	0	23.2	27.4
				1	12	23.0	27.3
				1	24	23.1	27.3
				12	0	22.1	27.8
				12	6	22.0	27.6
				12	11	22.0	27.6
				25	0	22.0	28.1
5.0	26765	821.5	QPSK	1	0	23.9	27.5
				1	12	23.8	27.5
				1	24	23.7	27.3
				12	0	23.0	27.8
				12	6	22.9	27.7
				12	11	22.9	27.8
				25	0	22.9	28.3
			16QAM	1	0	23.2	26.9
				1	12	23.1	26.9
				1	24	23.1	26.7
				12	0	21.9	27.6
				12	6	21.9	27.4
				12	11	21.9	27.6
				25	0	22.0	28.1

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	26740	819.0	QPSK	1	0	24.0	27.3
				1	24	23.9	27.2
				1	49	23.8	27.4
				25	0	23.0	27.7
				25	12	22.9	27.5
				25	24	22.9	27.8
				50	0	23.0	28.5
			16QAM	1	0	23.2	27.4
				1	24	23.1	27.3
				1	49	23.0	27.4
				25	0	22.0	27.7
				25	12	22.0	27.5
				25	24	22.0	27.7
				50	0	22.0	28.5

7.1.10. LTE BAND 27

ID:	39472	Date:	5/28/16
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OUTPUT POWER FOR LTE BAND 27 (1.4 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	27117	814.7	QPSK	1	0	23.9	28.5
				1	2	23.8	28.4
				1	5	23.9	28.5
				3	0	23.8	28.8
				3	1	23.8	28.7
				3	2	23.8	28.9
				6	0	22.8	28.5
			16QAM	1	0	23.0	28.3
				1	2	22.9	28.3
				1	5	22.9	28.3
				3	0	22.9	28.9
				3	1	22.9	28.7
				3	2	22.9	28.8
				6	0	21.8	28.4
1.4	27160	819.0	QPSK	1	0	23.8	28.4
				1	2	23.8	28.4
				1	5	23.8	28.4
				3	0	23.8	28.7
				3	1	23.8	28.6
				3	2	23.8	28.7
				6	0	22.8	28.7
			16QAM	1	0	23.3	28.4
				1	2	23.2	28.4
				1	5	23.3	28.4
				3	0	23.0	28.7
				3	1	23.0	28.7
				3	2	23.0	28.7
				6	0	21.8	28.7
1.4	27203	823.3	QPSK	1	0	24.0	28.4
				1	2	23.9	28.3
				1	5	23.9	28.4
				3	0	23.9	28.6
				3	1	23.8	28.5
				3	2	23.8	28.5
				6	0	22.8	28.5
			16QAM	1	0	23.3	28.4
				1	2	23.2	28.4
				1	5	23.2	28.4
				3	0	23.0	28.8
				3	1	22.9	28.8
				3	2	22.9	28.9
				6	0	21.8	28.1

OUTPUT POWER FOR LTE BAND 27 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	27125	815.5	QPSK	1	0	24.0	28.5
				1	7	24.0	28.4
				1	14	23.9	28.5
				8	0	23.0	28.5
				8	4	23.0	28.5
				8	7	22.9	28.4
				15	0	23.0	28.6
			16QAM	1	0	23.1	28.5
				1	7	23.0	28.4
				1	14	23.0	28.5
				8	0	22.0	28.5
				8	4	22.1	28.5
				8	7	22.0	28.4
				15	0	22.0	29.2
3.0	27160	819.0	QPSK	1	0	23.9	28.5
				1	7	23.9	28.5
				1	14	23.9	28.5
				8	0	22.9	28.5
				8	4	22.9	28.4
				8	7	22.9	28.4
				15	0	22.9	28.7
			16QAM	1	0	23.2	28.6
				1	7	23.2	28.6
				1	14	23.2	28.6
				8	0	22.0	28.5
				8	4	22.0	28.4
				8	7	22.0	28.4
				15	0	21.9	28.5
3.0	27195	822.5	QPSK	1	0	24.0	28.6
				1	7	24.0	28.5
				1	14	23.8	28.5
				8	0	23.1	28.6
				8	4	23.0	28.5
				8	7	23.0	28.4
				15	0	23.0	28.9
			16QAM	1	0	23.2	28.1
				1	7	23.1	28.1
				1	14	23.0	28.1
				8	0	22.0	28.6
				8	4	22.0	28.5
				8	7	22.0	28.4
				15	0	22.0	28.5

OUTPUT POWER FOR LTE BAND 27 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	27135	816.5	QPSK	1	0	24.0	27.6
				1	12	23.9	27.6
				1	24	23.9	27.6
				12	0	23.0	28.0
				12	6	23.0	27.6
				12	11	22.9	27.7
				25	0	22.9	28.2
			16QAM	1	0	23.2	27.6
				1	12	23.1	27.6
				1	24	23.1	27.6
				12	0	22.1	27.9
				12	6	22.0	27.6
				12	11	22.0	27.8
				25	0	22.0	28.2
5.0	27160	819.0	QPSK	1	0	23.8	27.5
				1	12	23.8	27.4
				1	24	23.9	27.3
				12	0	22.9	27.9
				12	6	22.9	27.7
				12	11	22.9	27.8
				25	0	22.9	28.4
			16QAM	1	0	23.2	27.4
				1	12	23.2	27.3
				1	24	23.3	27.3
				12	0	21.9	27.8
				12	6	21.9	27.7
				12	11	22.0	27.8
				25	0	22.0	28.3
5.0	27185	821.5	QPSK	1	0	23.8	27.4
				1	12	23.9	27.4
				1	24	23.8	27.4
				12	0	23.1	27.8
				12	6	23.0	27.7
				12	11	23.0	27.7
				25	0	23.0	28.2
			16QAM	1	0	23.1	27.2
				1	12	23.2	27.3
				1	24	23.1	27.3
				12	0	22.1	27.8
				12	6	22.1	27.6
				12	11	22.1	27.6
				25	0	22.1	28.2

OUTPUT POWER FOR LTE BAND 27 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	27160	819.0	QPSK	1	0	24.0	27.3
				1	24	24.0	27.2
				1	49	24.0	27.2
				25	0	22.8	27.9
				25	12	22.8	27.5
				25	24	22.8	27.6
				50	0	22.9	28.5
			16QAM	1	0	23.2	27.3
				1	24	23.1	27.2
				1	49	23.1	27.2
				25	0	21.9	27.8
				25	12	21.8	27.5
				25	24	21.9	27.6
				50	0	21.9	28.2

7.1.11. LTE BAND 30

ID:	50820	Date:	5/31/16
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OUTPUT POWER FOR LTE BAND 30 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	27685	2307.5	QPSK	1	0	24.0	27.5
				1	12	23.9	27.2
				1	24	23.9	27.3
				12	0	22.9	28.0
				12	6	22.9	27.8
				12	11	22.9	28.0
				25	0	22.9	28.3
			16QAM	1	0	23.3	27.3
				1	12	23.2	27.2
				1	24	23.3	27.2
				12	0	22.0	27.9
				12	6	21.9	27.8
				12	11	22.0	27.8
				25	0	21.9	28.3
5.0	27710	2310.0	QPSK	1	0	23.8	27.4
				1	12	23.7	27.3
				1	24	23.7	27.4
				12	0	22.9	28.0
				12	6	22.9	27.7
				12	11	22.8	27.7
				25	0	22.9	28.2
			16QAM	1	0	23.1	26.9
				1	12	23.0	26.8
				1	24	22.9	26.6
				12	0	22.0	28.0
				12	6	22.0	27.7
				12	11	21.9	27.7
				25	0	21.9	28.4
5.0	27735	2312.5	QPSK	1	0	24.0	27.7
				1	12	23.8	27.5
				1	24	23.8	27.4
				12	0	22.8	27.6
				12	6	22.8	27.5
				12	11	22.8	27.5
				25	0	22.8	28.2
			16QAM	1	0	23.0	27.2
				1	12	22.8	27.1
				1	24	22.8	27.2
				12	0	22.0	27.8
				12	6	21.9	27.6
				12	11	21.9	27.6
				25	0	21.8	28.2

OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	27710	2310.0	QPSK	1	0	24.0	27.6
				1	24	23.9	27.4
				1	49	23.7	27.3
				25	0	23.0	28.2
				25	12	23.1	28.0
				25	24	23.0	28.0
				50	0	23.1	28.5
			16QAM	1	0	23.2	27.4
				1	24	23.2	27.3
				1	49	23.0	27.1
				25	0	22.1	28.2
				25	12	22.2	28.0
				25	24	22.1	28.1
				50	0	22.1	28.4

7.1.12. LTE BAND 41

ID:	50820	Date:	6/25/16
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OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	39675	2498.5	QPSK	1	0	24.2	27.6
				1	12	24.3	27.7
				1	24	24.3	27.8
				12	0	23.6	28.0
				12	6	23.6	27.8
				12	11	23.6	27.9
				25	0	23.5	28.5
			16QAM	1	0	23.7	27.4
				1	12	23.7	27.4
				1	24	23.8	27.4
				12	0	22.6	28.0
				12	6	22.6	27.9
				12	11	22.6	27.9
				25	0	22.7	28.3
5.0	40620	2593.0	QPSK	1	0	24.4	28.0
				1	12	24.3	27.8
				1	24	24.4	27.8
				12	0	23.4	28.2
				12	6	23.4	28.1
				12	11	23.3	28.1
				25	0	23.3	28.7
			16QAM	1	0	23.7	27.8
				1	12	23.6	27.8
				1	24	23.6	27.5
				12	0	22.4	28.1
				12	6	22.4	27.9
				12	11	22.4	27.9
				25	0	22.5	28.5
5.0	41565	2687.5	QPSK	1	0	24.5	27.7
				1	12	24.4	27.6
				1	24	24.3	27.6
				12	0	23.5	28.1
				12	6	23.5	27.9
				12	11	23.5	27.9
				25	0	23.5	28.6
			16QAM	1	0	23.6	27.7
				1	12	23.5	27.6
				1	24	23.5	27.3
				12	0	22.6	28.2
				12	6	22.6	27.9
				12	11	22.5	28.0
				25	0	22.5	28.6

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	39700	2501.0	QPSK	1	0	24.4	27.9
				1	24	24.4	28.0
				1	49	24.5	28.1
				25	0	23.6	28.0
				25	12	23.5	27.9
				25	24	23.5	28.1
				50	0	23.5	28.8
			16QAM	1	0	23.5	27.7
				1	24	23.5	27.7
				1	49	23.6	27.7
				25	0	22.7	27.9
				25	12	22.6	27.9
				25	24	22.6	28.0
				50	0	22.7	28.6
10.0	40620	2593.0	QPSK	1	0	24.4	28.1
				1	24	24.3	27.9
				1	49	24.3	27.8
				25	0	23.5	28.2
				25	12	23.4	28.1
				25	24	23.4	28.0
				50	0	23.4	28.9
			16QAM	1	0	23.8	27.8
				1	24	23.6	27.7
				1	49	23.6	27.6
				25	0	22.5	28.1
				25	12	22.5	27.9
				25	24	22.5	27.9
				50	0	22.5	28.6
10.0	41540	2685.0	QPSK	1	0	24.4	27.9
				1	24	24.4	27.7
				1	49	24.3	27.5
				25	0	23.6	28.2
				25	12	23.5	27.9
				25	24	23.5	28.0
				50	0	23.6	28.8
			16QAM	1	0	23.6	27.8
				1	24	23.4	27.5
				1	49	23.3	27.4
				25	0	22.6	28.3
				25	12	22.6	28.0
				25	24	22.5	28.1
				50	0	22.6	28.6

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	39725	2503.5	QPSK	1	0	24.2	27.6
				1	37	24.3	27.8
				1	74	24.2	27.7
				36	0	23.5	28.0
				36	16	23.4	27.9
				36	35	23.4	28.0
				75	0	23.4	28.7
			16-QAM	1	0	23.3	27.4
				1	37	23.4	27.6
				1	74	23.3	27.5
				36	0	22.7	27.9
				36	16	22.6	27.9
				36	35	22.5	28.0
				75	0	22.5	28.0
15.0	40620	2593.0	QPSK	1	0	24.4	28.3
				1	37	24.3	28.0
				1	74	24.3	27.8
				36	0	23.3	28.3
				36	16	23.3	28.0
				36	35	23.2	27.9
				75	0	23.2	28.9
			16-QAM	1	0	23.7	27.8
				1	37	23.4	27.5
				1	74	23.4	27.4
				36	0	22.4	28.2
				36	16	22.4	27.9
				36	35	22.3	27.8
				75	0	22.3	28.2
15.0	41515	2682.5	QPSK	1	0	24.5	27.9
				1	37	24.4	27.7
				1	74	24.2	27.4
				36	0	23.4	28.3
				36	16	23.4	28.1
				36	35	23.3	28.0
				75	0	23.3	28.8
			16-QAM	1	0	23.6	27.8
				1	37	23.4	27.5
				1	74	23.2	27.2
				36	0	22.6	28.3
				36	16	22.5	28.0
				36	35	22.5	28.0
				75	0	22.5	28.4

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	39750	2506.0	QPSK	1	0	24.3	27.6
				1	49	24.4	27.7
				1	99	24.3	27.7
				50	0	23.4	28.0
				50	24	23.4	28.0
				50	49	23.3	28.0
				100	0	23.3	28.9
			16-QAM	1	0	23.6	27.6
				1	49	23.7	27.4
				1	99	23.5	27.5
				50	0	22.6	27.9
				50	24	22.5	27.9
				50	49	22.5	27.9
				100	0	22.5	28.3
20.0	40620	2593.0	QPSK	1	0	24.5	28.1
				1	49	24.3	27.8
				1	99	24.2	27.7
				50	0	23.4	28.3
				50	24	23.3	28.0
				50	49	23.3	28.0
				100	0	23.2	29.0
			16-QAM	1	0	23.4	27.8
				1	49	23.2	27.6
				1	99	23.2	27.4
				50	0	22.5	28.1
				50	24	22.3	28.0
				50	49	22.3	27.9
				100	0	22.2	28.3
20.0	41490	2680.0	QPSK	1	0	24.4	28.0
				1	49	24.3	27.9
				1	99	24.2	27.5
				50	0	23.5	28.3
				50	24	23.5	28.2
				50	49	23.4	28.1
				100	0	23.3	28.9
			16-QAM	1	0	23.6	27.8
				1	49	23.4	27.5
				1	99	23.2	27.1
				50	0	22.5	28.2
				50	24	22.5	28.1
				50	49	22.5	28.1
				100	0	22.4	28.3

7.2. UAT

7.2.1. LTE BAND 2

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OUTPUT POWER FOR LTE BAND 2 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)
1.4	18607	1850.7	QPSK	1	0	21.0	25.7
				1	2	20.9	25.7
				1	5	21.0	25.7
				3	0	20.8	25.9
				3	1	20.8	25.9
				3	2	20.9	25.9
				6	0	19.8	26.2
			16QAM	1	0	20.1	26.1
				1	2	20.1	26.1
				1	5	20.2	26.0
				3	0	19.9	26.6
				3	1	19.9	26.6
				3	2	20.0	26.5
				6	0	19.0	26.7
1.4	18900	1880.0	QPSK	1	0	20.9	25.6
				1	2	20.9	25.5
				1	5	21.0	25.5
				3	0	20.9	25.9
				3	1	20.8	25.8
				3	2	20.9	25.8
				6	0	19.9	26.2
			16QAM	1	0	20.0	25.7
				1	2	20.1	25.6
				1	5	20.1	25.6
				3	0	20.1	26.3
				3	1	20.1	26.1
				3	2	20.1	25.9
				6	0	18.9	26.2
1.4	19193	1909.3	QPSK	1	0	20.9	25.0
				1	2	20.9	25.0
				1	5	21.0	25.0
				3	0	20.9	25.2
				3	1	20.9	25.2
				3	2	21.0	25.2
				6	0	20.0	25.9
			16QAM	1	0	20.2	25.0
				1	2	20.2	25.3
				1	5	20.2	25.0
				3	0	20.0	25.4
				3	1	20.0	25.5
				3	2	20.0	25.5
				6	0	19.0	25.6

OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	18615	1851.5	QPSK	1	0	20.8	25.3
				1	7	20.8	25.2
				1	14	20.9	25.1
				8	0	19.8	25.4
				8	4	19.9	25.2
				8	7	19.9	25.2
				15	0	20.0	25.9
			16QAM	1	0	20.1	25.6
				1	7	20.1	25.5
				1	14	20.0	25.4
				8	0	18.8	25.3
				8	4	18.8	25.2
				8	7	18.8	25.2
				15	0	19.1	25.8
				3.0	18900	1880.0	QPSK
1	7	20.7	25.1				
1	14	20.9	25.9				
8	0	19.8	25.4				
8	4	19.8	25.2				
8	7	19.9	25.2				
15	0	19.8	25.9				
16QAM	1	0	20.0				25.5
	1	7	20.1				25.3
	1	14	20.1				25.4
	8	0	18.9				25.4
	8	4	18.9				25.2
	8	7	18.9				25.3
	15	0	19.0				25.9
	3.0	19185	1908.5				QPSK
1				7	20.8	24.5	
1				14	20.9	24.5	
8				0	19.8	24.9	
8				4	19.8	24.7	
8				7	19.8	24.6	
15				0	19.9	25.4	
16QAM				1	0	20.0	25.0
				1	7	20.1	24.7
				1	14	20.1	24.7
				8	0	18.8	24.9
				8	4	18.8	24.7
				8	7	18.9	24.6
				15	0	19.0	25.3

OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak(dBm)
				Size	Offset		
5.0	18625	1852.5	QPSK	1	0	20.9	25.4
				1	12	20.9	25.3
				1	24	20.9	25.1
				12	0	19.9	25.5
				12	6	19.8	25.3
				12	11	19.8	25.3
				25	0	20.0	26.2
			16QAM	1	0	20.2	25.6
				1	12	20.3	25.5
				1	24	20.2	25.4
				12	0	18.7	25.7
				12	6	18.8	25.3
				12	11	18.8	25.5
				25	0	19.0	26.1
5.0	18900	1880.0	QPSK	1	0	20.9	25.4
				1	12	20.9	25.3
				1	24	21.0	25.4
				12	0	19.8	25.6
				12	6	19.8	25.3
				12	11	19.8	25.5
				25	0	20.0	26.2
			16QAM	1	0	20.2	25.7
				1	12	20.3	25.6
				1	24	20.3	25.7
				12	0	18.8	25.8
				12	6	18.8	25.4
				12	11	18.9	25.6
				25	0	19.0	26.1
5.0	19175	1907.5	QPSK	1	0	20.9	25.3
				1	12	20.8	24.8
				1	24	20.7	24.8
				12	0	19.8	25.2
				12	6	19.9	24.8
				12	11	19.9	24.9
				25	0	20.0	25.8
			16QAM	1	0	20.2	25.5
				1	12	20.0	25.1
				1	24	20.0	25.0
				12	0	18.7	25.4
				12	6	18.7	24.9
				12	11	18.7	25.1
				25	0	18.9	25.7

OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	18650	1855.0	QPSK	1	0	20.9	25.5
				1	24	20.8	25.2
				1	49	20.8	24.8
				25	0	19.9	25.7
				25	12	19.8	25.2
				25	24	19.8	25.3
				50	0	19.8	26.1
			16QAM	1	0	20.3	25.8
				1	24	20.2	25.5
				1	49	20.1	24.9
				25	0	19.1	25.7
				25	12	19.0	25.2
				25	24	19.0	25.2
				50	0	19.1	26.0
10.0	18900	1880.0	QPSK	1	0	21.0	25.5
				1	24	20.9	25.4
				1	49	21.0	25.2
				25	0	20.0	25.7
				25	12	20.0	25.4
				25	24	20.1	25.8
				50	0	20.0	26.4
			16QAM	1	0	20.2	25.8
				1	24	20.2	25.7
				1	49	20.1	25.4
				25	0	18.9	25.7
				25	12	18.9	25.4
				25	24	19.0	25.7
				50	0	19.0	26.2
10.0	19150	1905.0	QPSK	1	0	20.8	25.5
				1	24	20.8	25.4
				1	49	20.7	24.8
				25	0	19.8	25.8
				25	12	19.9	25.5
				25	24	19.8	25.4
				50	0	19.9	26.3
			16QAM	1	0	20.2	25.9
				1	24	20.2	25.7
				1	49	20.0	25.0
				25	0	18.9	25.7
				25	12	18.9	25.5
				25	24	18.9	25.3
				50	0	18.9	26.3

OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	18675	1857.5	QPSK	1	0	21.0	25.5
				1	37	20.8	25.0
				1	74	20.9	25.0
				36	0	20.0	25.7
				36	16	20.0	25.0
				36	35	20.0	25.0
				75	0	20.1	26.3
			16-QAM	1	0	20.3	25.8
				1	37	20.1	25.2
				1	74	20.2	25.1
				36	0	18.9	25.6
				36	16	18.8	25.0
				36	35	18.8	24.9
				75	0	18.8	26.1
15.0	18900	1880.0	QPSK	1	0	20.9	25.5
				1	37	21.0	25.5
				1	74	20.8	25.1
				36	0	20.1	25.8
				36	16	20.0	25.6
				36	35	20.0	25.6
				75	0	20.1	26.5
			16-QAM	1	0	20.2	25.9
				1	37	20.2	25.7
				1	74	20.0	25.3
				36	0	18.9	25.8
				36	16	18.9	25.5
				36	35	18.9	25.5
				75	0	19.0	26.4
15.0	19125	1902.5	QPSK	1	0	20.8	25.2
				1	37	20.7	25.5
				1	74	20.8	24.9
				36	0	20.1	25.8
				36	16	19.7	25.7
				36	35	19.8	25.6
				75	0	20.0	26.4
			16-QAM	1	0	20.2	25.5
				1	37	20.2	25.8
				1	74	19.9	25.0
				36	0	19.0	25.7
				36	16	19.0	25.7
				36	35	19.0	25.5
				75	0	18.9	26.3

OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	18700	1860.0	QPSK	1	0	21.0	25.5
				1	49	20.8	24.8
				1	99	20.9	25.3
				50	0	19.8	25.5
				50	24	19.8	24.9
				50	49	19.8	25.3
				100	0	19.9	26.3
			16-QAM	1	0	20.2	25.8
				1	49	20.0	25.0
				1	99	20.0	25.5
				50	0	18.9	25.4
				50	24	18.8	24.8
				50	49	18.9	25.2
				100	0	18.9	26.2
20.0	18900	1880.0	QPSK	1	0	21.0	25.5
				1	49	21.0	25.5
				1	99	20.9	25.2
				50	0	19.8	25.9
				50	24	19.9	25.6
				50	49	19.9	25.7
				100	0	20.0	26.6
			16-QAM	1	0	20.2	25.7
				1	49	20.2	25.7
				1	99	20.2	25.4
				50	0	18.9	25.8
				50	24	19.0	25.6
				50	49	18.9	25.6
				100	0	19.0	26.5
20.0	19100	1900.0	QPSK	1	0	20.9	25.2
				1	49	20.7	25.5
				1	99	20.8	24.9
				50	0	19.8	25.7
				50	24	19.7	25.7
				50	49	19.9	26.0
				100	0	19.9	26.4
			16-QAM	1	0	20.3	25.4
				1	49	20.1	25.7
				1	99	20.1	25.1
				50	0	18.8	25.6
				50	24	18.8	25.7
				50	49	18.9	25.9
				100	0	18.9	26.4

7.2.2. LTE BAND 4

ID:	50820	Date:	6/6/16
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OUTPUT POWER FOR LTE BAND 4 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	19957	1710.7	QPSK	1	0	20.8	25.7
				1	2	20.8	25.6
				1	5	20.8	25.7
				3	0	20.7	25.9
				3	1	20.7	25.8
				3	2	20.7	25.9
				6	0	19.7	26.0
			16QAM	1	0	20.0	25.9
				1	2	20.0	25.9
				1	5	19.9	25.9
				3	0	19.9	26.1
				3	1	19.8	26.0
				3	2	19.8	26.0
				6	0	18.8	26.1
1.4	20175	1732.5	QPSK	1	0	20.9	25.8
				1	2	20.8	25.7
				1	5	20.9	25.8
				3	0	20.8	26.1
				3	1	20.8	26.1
				3	2	20.8	26.0
				6	0	19.8	26.2
			16QAM	1	0	20.3	25.9
				1	2	20.3	25.9
				1	5	20.3	25.9
				3	0	20.0	26.3
				3	1	20.0	26.2
				3	2	20.0	26.2
				6	0	19.0	26.1
1.4	20393	1754.3	QPSK	1	0	21.0	25.7
				1	2	21.0	25.7
				1	5	20.9	25.7
				3	0	20.9	26.0
				3	1	20.9	25.9
				3	2	20.9	25.9
				6	0	19.9	26.4
			16QAM	1	0	20.2	25.8
				1	2	20.2	25.9
				1	5	20.2	25.8
				3	0	20.1	26.2
				3	1	20.1	26.5
				3	2	20.1	26.5
				6	0	19.1	26.6

OUTPUT POWER FOR LTE BAND 4 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	19965	1711.5	QPSK	1	0	20.8	25.5
				1	7	20.8	25.4
				1	14	20.8	25.5
				8	0	19.8	25.9
				8	4	19.8	25.8
				8	7	19.7	25.8
				15	0	19.7	26.0
			16QAM	1	0	20.1	26.0
				1	7	20.1	26.0
				1	14	20.1	26.0
				8	0	18.9	26.0
				8	4	18.9	25.9
				8	7	18.9	25.9
				15	0	18.8	26.0
3.0	20175	1732.5	QPSK	1	0	20.9	25.8
				1	7	20.9	25.8
				1	14	20.8	25.7
				8	0	19.9	26.0
				8	4	19.9	26.0
				8	7	19.9	25.9
				15	0	19.9	26.3
			16QAM	1	0	20.4	25.9
				1	7	20.4	25.9
				1	14	20.3	26.0
				8	0	19.0	26.2
				8	4	19.0	26.1
				8	7	19.0	26.0
				15	0	19.0	26.2
3.0	20385	1753.5	QPSK	1	0	20.9	25.7
				1	7	21.0	25.6
				1	14	21.0	25.6
				8	0	19.9	26.2
				8	4	19.9	26.0
				8	7	19.9	26.0
				15	0	19.9	26.5
			16QAM	1	0	20.2	26.1
				1	7	20.3	26.0
				1	14	20.3	25.9
				8	0	19.0	26.1
				8	4	19.1	26.0
				8	7	19.1	26.0
				15	0	18.9	26.5

OUTPUT POWER FOR LTE BAND 4 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	19975	1712.5	QPSK	1	0	20.9	25.6
				1	12	20.9	25.6
				1	24	20.8	25.7
				12	0	19.9	24.9
				12	6	19.9	24.7
				12	11	19.9	24.8
				25	0	19.9	25.3
			16QAM	1	0	20.1	24.9
				1	12	20.1	24.9
				1	24	20.1	24.8
				12	0	19.0	24.1
				12	6	19.1	23.9
				12	11	19.1	24.0
				25	0	19.1	25.2
5.0	20175	1732.5	QPSK	1	0	20.9	25.5
				1	12	20.8	25.5
				1	24	20.8	25.4
				12	0	19.5	24.5
				12	6	19.5	24.3
				12	11	19.5	24.4
				25	0	19.9	25.2
			16QAM	1	0	19.8	24.2
				1	12	19.7	24.2
				1	24	19.7	24.2
				12	0	18.6	23.6
				12	6	18.5	23.3
				12	11	18.6	23.4
				25	0	18.9	24.6
5.0	20375	1752.5	QPSK	1	0	20.8	25.5
				1	12	20.7	25.5
				1	24	20.9	25.4
				12	0	19.4	24.4
				12	6	19.4	24.3
				12	11	19.5	24.3
				25	0	19.8	25.0
			16QAM	1	0	19.8	24.4
				1	12	19.7	24.3
				1	24	19.8	24.2
				12	0	18.5	23.6
				12	6	18.5	23.3
				12	11	18.6	23.4
				25	0	18.8	24.8

OUTPUT POWER FOR LTE BAND 4 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20000	1715.0	QPSK	1	0	21.0	25.7
				1	24	20.9	25.7
				1	49	20.9	25.6
				25	0	19.9	25.0
				25	12	19.9	24.6
				25	24	19.8	24.7
				50	0	19.9	25.5
			16QAM	1	0	20.1	25.0
				1	24	20.2	24.9
				1	49	20.1	24.9
				25	0	18.9	24.6
				25	12	18.8	24.4
				25	24	18.8	24.5
				50	0	19.1	25.5
10.0	20175	1732.5	QPSK	1	0	20.8	25.4
				1	24	20.7	25.4
				1	49	20.6	25.3
				25	0	19.7	24.6
				25	12	19.7	24.4
				25	24	19.6	24.6
				50	0	19.8	25.4
			16QAM	1	0	20.0	24.3
				1	24	19.9	24.3
				1	49	19.8	24.4
				25	0	18.5	24.3
				25	12	18.4	24.1
				25	24	18.4	24.3
				50	0	19.0	25.3
10.0	20350	1750.0	QPSK	1	0	20.5	25.2
				1	24	20.4	25.2
				1	49	20.5	25.1
				25	0	19.4	24.4
				25	12	19.3	24.2
				25	24	19.3	24.2
				50	0	20.4	25.8
			16QAM	1	0	20.6	25.4
				1	24	20.6	25.4
				1	49	20.7	25.3
				25	0	18.6	24.3
				25	12	18.5	24.1
				25	24	18.5	24.2
				50	0	19.4	25.7

OUTPUT POWER FOR LTE BAND 4 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	20025	1717.5	QPSK	1	0	20.9	25.9
				1	37	20.9	25.7
				1	74	20.9	25.6
				36	0	19.9	25.0
				36	16	19.8	24.7
				36	35	19.9	24.8
				75	0	19.9	25.7
			16-QAM	1	0	20.1	24.8
				1	37	20.1	24.6
				1	74	20.1	24.5
				36	0	18.8	24.8
				36	16	18.8	24.5
				36	35	18.8	24.6
				75	0	19.1	25.6
15.0	20175	1732.5	QPSK	1	0	20.9	25.5
				1	37	20.7	25.6
				1	74	20.6	25.5
				36	0	19.8	24.8
				36	16	19.8	24.7
				36	35	19.6	24.8
				75	0	19.8	25.6
			16-QAM	1	0	19.9	24.2
				1	37	19.8	24.4
				1	74	19.6	24.3
				36	0	18.9	24.6
				36	16	18.8	24.5
				36	35	18.6	24.6
				75	0	19.0	25.6
15.0	20325	1747.5	QPSK	1	0	20.9	25.7
				1	37	20.9	25.7
				1	74	20.9	25.6
				36	0	19.7	24.9
				36	16	19.8	24.7
				36	35	19.7	24.8
				75	0	19.9	25.7
			16-QAM	1	0	20.0	25.1
				1	37	20.1	25.1
				1	74	20.1	24.9
				36	0	18.8	24.9
				36	16	18.9	24.6
				36	35	18.8	24.8
				75	0	19.0	25.6

OUTPUT POWER FOR LTE BAND 4 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	20050	1720.0	QPSK	1	0	20.9	25.7
				1	49	20.7	25.4
				1	99	20.8	25.5
				50	0	19.6	24.7
				50	24	19.7	24.5
				50	49	19.7	24.5
				100	0	20.0	25.7
			16-QAM	1	0	19.9	24.4
				1	49	19.9	24.2
				1	99	20.0	24.3
				50	0	18.7	24.6
				50	24	18.7	24.3
				50	49	18.7	24.4
				100	0	19.0	25.6
20.0	20175	1732.5	QPSK	1	0	20.9	25.2
				1	49	20.7	25.3
				1	99	20.6	25.2
				50	0	19.6	24.6
				50	24	19.6	24.6
				50	49	19.5	24.8
				100	0	19.9	25.7
			16-QAM	1	0	20.0	24.2
				1	49	19.9	24.4
				1	99	19.9	24.3
				50	0	18.7	24.5
				50	24	18.6	24.4
				50	49	18.5	24.6
				100	0	19.0	25.6
20.0	20300	1745.0	QPSK	1	0	20.7	25.6
				1	49	20.7	25.6
				1	99	20.8	25.6
				50	0	19.8	25.0
				50	24	19.9	24.9
				50	49	19.8	24.9
				100	0	19.9	25.7
			16-QAM	1	0	19.8	24.8
				1	49	19.8	24.8
				1	99	19.9	24.7
				50	0	18.8	24.8
				50	24	18.8	24.7
				50	49	18.8	24.8
				100	0	18.9	25.7

7.2.3. LTE BAND 5

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OUTPUT POWER FOR LTE BAND 5 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	20407	824.7	QPSK	1	0	22.5	27.6
				1	2	22.5	27.6
				1	5	22.4	27.4
				3	0	22.4	28.2
				3	1	22.4	28.2
				3	2	22.4	28.2
				6	0	21.5	27.4
			16QAM	1	0	21.5	27.0
				1	2	21.5	26.9
				1	5	21.5	26.9
				3	0	21.4	27.3
				3	1	21.4	27.2
				3	2	21.4	27.2
				6	0	20.6	27.7
1.4	20525	836.5	QPSK	1	0	22.4	27.4
				1	2	22.3	27.4
				1	5	22.3	27.4
				3	0	22.3	27.9
				3	1	22.3	27.8
				3	2	22.2	27.8
				6	0	21.4	27.0
			16QAM	1	0	21.3	26.4
				1	2	21.2	26.4
				1	5	21.3	26.4
				3	0	21.2	26.6
				3	1	21.2	26.7
				3	2	21.2	26.8
				6	0	20.5	27.0
1.4	20643	848.3	QPSK	1	0	22.3	27.4
				1	2	22.3	27.4
				1	5	22.3	27.4
				3	0	22.3	27.5
				3	1	22.3	27.5
				3	2	22.3	27.5
				6	0	21.4	26.9
			16QAM	1	0	21.3	26.3
				1	2	21.3	26.3
				1	5	21.3	26.4
				3	0	21.4	27.2
				3	1	21.4	27.2
				3	2	21.4	27.3
				6	0	20.5	26.6

OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	20415	825.5	QPSK	1	0	22.4	27.6
				1	7	22.5	27.6
				1	14	22.4	27.6
				8	0	21.4	27.1
				8	4	21.5	27.1
				8	7	21.5	27.1
				15	0	21.5	27.1
			16QAM	1	0	21.4	26.7
				1	7	21.5	26.7
				1	14	21.4	26.6
				8	0	20.5	27.2
				8	4	20.6	27.2
				8	7	20.6	27.1
				15	0	20.6	27.4
3.0	20525	836.5	QPSK	1	0	22.5	27.3
				1	7	22.5	27.2
				1	14	22.4	27.2
				8	0	21.5	27.1
				8	4	21.4	26.9
				8	7	21.4	26.9
				15	0	21.4	27.2
			16QAM	1	0	21.6	26.6
				1	7	21.6	26.7
				1	14	21.5	26.7
				8	0	20.6	26.6
				8	4	20.5	26.6
				8	7	20.5	26.6
				15	0	20.5	26.9
3.0	20635	847.5	QPSK	1	0	22.4	27.4
				1	7	22.2	27.3
				1	14	22.1	27.4
				8	0	21.4	26.7
				8	4	21.2	26.5
				8	7	21.2	26.5
				15	0	21.5	27.0
			16QAM	1	0	21.5	26.6
				1	7	21.3	26.5
				1	14	21.2	26.6
				8	0	20.5	26.6
				8	4	20.3	26.5
				8	7	20.3	26.5
				15	0	20.6	27.1

OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	20425	826.5	QPSK	1	0	22.4	27.5
				1	12	22.4	27.4
				1	24	22.3	27.2
				12	0	21.3	26.9
				12	6	21.4	26.8
				12	11	21.4	26.8
				25	0	21.5	27.2
			16QAM	1	0	21.4	26.4
				1	12	21.4	26.3
				1	24	21.5	26.1
				12	0	20.4	26.8
				12	6	20.3	26.6
				12	11	20.3	26.6
				25	0	20.4	26.9
5.0	20525	836.5	QPSK	1	0	22.4	27.0
				1	12	22.3	26.9
				1	24	22.3	27.0
				12	0	21.2	26.6
				12	6	21.2	26.5
				12	11	21.3	26.6
				25	0	21.3	27.0
			16QAM	1	0	21.5	26.3
				1	12	21.4	26.4
				1	24	21.4	26.4
				12	0	20.4	26.6
				12	6	20.3	26.5
				12	11	20.3	26.6
				25	0	20.5	27.0
5.0	20625	846.5	QPSK	1	0	22.4	27.1
				1	12	22.2	26.8
				1	24	22.0	26.9
				12	0	21.3	26.5
				12	6	21.2	26.3
				12	11	21.1	26.2
				25	0	21.4	26.8
			16QAM	1	0	21.5	26.3
				1	12	21.2	26.0
				1	24	21.1	26.1
				12	0	20.3	26.3
				12	6	20.3	26.1
				12	11	20.1	26.1
				25	0	20.6	27.0

OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20450	829.0	QPSK	1	0	22.4	27.6
				1	24	22.5	27.4
				1	49	22.4	27.3
				25	0	21.4	26.9
				25	12	21.5	26.7
				25	24	21.4	26.7
				50	0	21.5	27.4
			16QAM	1	0	21.5	26.6
				1	24	21.6	26.3
				1	49	21.6	26.2
				25	0	20.5	26.9
				25	12	20.5	26.7
				25	24	20.5	26.7
				50	0	20.6	27.5
10.0	20525	836.5	QPSK	1	0	22.5	27.3
				1	24	22.2	27.2
				1	49	22.3	27.3
				25	0	21.2	26.6
				25	12	21.2	26.6
				25	24	21.2	26.7
				50	0	21.6	27.6
			16QAM	1	0	21.6	26.3
				1	24	21.3	26.3
				1	49	21.4	26.5
				25	0	20.3	26.8
				25	12	20.2	26.6
				25	24	20.3	26.9
				50	0	20.7	27.7
10.0	20600	844.0	QPSK	1	0	22.4	27.3
				1	24	22.5	27.2
				1	49	22.2	27.0
				25	0	21.3	27.2
				25	12	21.4	26.8
				25	24	21.3	26.8
				50	0	21.4	27.2
			16QAM	1	0	21.4	26.5
				1	24	21.5	26.2
				1	49	21.1	26.0
				25	0	20.4	26.9
				25	12	20.4	26.6
				25	24	20.3	26.6
				50	0	20.5	27.1

7.2.4. LTE BAND 7

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OUTPUT POWER FOR LTE BAND 7 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	20775	2502.5	QPSK	1	0	18.9	22.5
				1	12	18.9	22.4
				1	24	19.0	22.6
				12	0	17.8	21.6
				12	6	17.8	21.4
				12	11	17.9	21.6
				25	0	18.0	21.9
			16QAM	1	0	18.0	21.3
				1	12	18.0	21.3
				1	24	18.1	21.5
				12	0	16.9	21.3
				12	6	16.8	21.1
				12	11	16.9	21.4
				25	0	17.0	22.4
5.0	21100	2535.0	QPSK	1	0	19.0	22.8
				1	12	18.9	22.8
				1	24	18.9	22.9
				12	0	17.9	22.0
				12	6	17.9	21.8
				12	11	17.9	22.0
				25	0	17.9	22.7
			16QAM	1	0	18.1	21.7
				1	12	18.0	21.6
				1	24	18.0	21.7
				12	0	17.0	21.9
				12	6	16.9	21.7
				12	11	16.9	21.9
				25	0	17.2	23.0
5.0	21425	2567.5	QPSK	1	0	18.9	23.0
				1	12	18.8	22.9
				1	24	18.8	22.9
				12	0	17.9	22.4
				12	6	17.9	22.1
				12	11	17.8	22.3
				25	0	18.0	23.1
			16QAM	1	0	17.9	22.5
				1	12	17.8	22.5
				1	24	17.8	22.5
				12	0	16.9	22.3
				12	6	16.8	22.1
				12	11	16.8	22.1
				25	0	17.1	23.1

OUTPUT POWER FOR LTE BAND 7 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	20800	2505.0	QPSK	1	0	18.8	22.4
				1	24	18.9	22.8
				1	49	19.0	23.1
				25	0	17.9	21.8
				25	12	17.9	21.7
				25	24	17.9	22.1
				50	0	17.9	22.9
			16QAM	1	0	18.0	21.6
				1	24	18.0	21.7
				1	49	18.2	22.1
				25	0	16.9	21.7
				25	12	17.0	21.6
				25	24	17.0	22.0
				50	0	17.0	22.8
10.0	21100	2535.0	QPSK	1	0	18.9	22.8
				1	24	18.8	22.8
				1	49	18.8	22.9
				25	0	17.9	22.1
				25	12	17.9	21.8
				25	24	17.8	22.1
				50	0	18.0	23.0
			16QAM	1	0	17.9	21.8
				1	24	17.9	21.8
				1	49	17.8	21.9
				25	0	17.0	22.1
				25	12	17.0	21.9
				25	24	17.0	22.2
				50	0	17.0	22.7
10.0	21400	2565.0	QPSK	1	0	18.9	22.9
				1	24	18.9	22.9
				1	49	18.8	22.9
				25	0	17.7	22.2
				25	12	17.6	21.9
				25	24	17.6	22.1
				50	0	18.1	23.3
			16QAM	1	0	17.9	22.0
				1	24	17.8	21.9
				1	49	17.7	22.1
				25	0	16.9	22.3
				25	12	16.8	21.9
				25	24	16.8	22.2
				50	0	17.0	23.0

OUTPUT POWER FOR LTE BAND 7 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	20825	2507.5	QPSK	1	0	18.8	22.4
				1	37	19.0	22.9
				1	74	18.8	23.1
				36	0	17.9	21.9
				36	16	17.9	21.9
				36	35	17.8	22.2
				75	0	17.9	23.1
			16-QAM	1	0	18.0	21.5
				1	37	18.1	21.9
				1	74	17.9	22.1
				36	0	17.0	21.7
				36	16	17.0	21.7
				36	35	17.0	22.1
				75	0	17.1	23.1
15.0	21100	2535.0	QPSK	1	0	19.0	22.7
				1	37	18.9	22.7
				1	74	18.8	22.9
				36	0	17.7	22.1
				36	16	17.6	21.7
				36	35	17.6	22.1
				75	0	18.0	23.4
			16-QAM	1	0	18.1	21.9
				1	37	18.0	21.9
				1	74	17.9	22.1
				36	0	16.9	22.1
				36	16	16.8	21.7
				36	35	16.8	22.2
				75	0	17.1	23.2
15.0	21375	2562.5	QPSK	1	0	18.8	23.2
				1	37	18.8	23.0
				1	74	18.6	23.1
				36	0	17.9	22.6
				36	16	17.9	22.1
				36	35	17.8	22.3
				75	0	17.9	23.3
			16-QAM	1	0	17.8	21.9
				1	37	17.7	21.7
				1	74	17.6	21.8
				36	0	17.0	22.6
				36	16	17.0	22.1
				36	35	16.9	22.3
				75	0	16.8	23.1

OUTPUT POWER FOR LTE BAND 7 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	20850	2510.0	QPSK	1	0	18.7	22.4
				1	49	18.8	23.0
				1	99	18.6	23.0
				50	0	18.0	21.9
				50	24	17.9	22.1
				50	49	17.7	22.4
				100	0	17.8	23.0
			16-QAM	1	0	17.8	20.9
				1	49	18.1	21.7
				1	99	18.0	21.8
				50	0	17.0	21.9
				50	24	16.9	22.1
				50	49	16.8	22.5
				100	0	16.9	23.0
20.0	21100	2535.0	QPSK	1	0	19.0	22.9
				1	49	19.0	22.9
				1	99	18.9	23.0
				50	0	18.0	22.4
				50	24	17.9	22.0
				50	49	17.8	22.5
				100	0	18.0	23.3
			16-QAM	1	0	18.0	22.4
				1	49	18.0	22.3
				1	99	17.9	22.6
				50	0	17.1	22.4
				50	24	17.0	22.0
				50	49	17.0	22.5
				100	0	17.1	23.2
20.0	21350	2560.0	QPSK	1	0	18.8	23.3
				1	49	18.8	23.1
				1	99	18.7	23.1
				50	0	17.9	22.7
				50	24	17.9	22.3
				50	49	17.8	22.5
				100	0	17.9	23.4
			16-QAM	1	0	17.8	22.0
				1	49	17.8	21.7
				1	99	17.7	21.8
				50	0	16.9	22.6
				50	24	16.9	22.2
				50	49	16.9	22.3
				100	0	16.9	23.3

7.2.5. LTE BAND 12

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OUTPUT POWER FOR LTE BAND 12 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	23017	699.7	QPSK	1	0	23.4	27.4
				1	2	23.4	27.2
				1	5	23.4	27.3
				3	0	23.4	27.5
				3	1	23.3	27.4
				3	2	23.4	27.7
				6	0	22.4	27.2
			16QAM	1	0	22.4	26.2
				1	2	22.4	26.2
				1	5	22.4	26.3
				3	0	22.3	26.7
				3	1	22.3	26.4
				3	2	22.3	26.4
				6	0	21.5	27.1
1.4	23095	707.5	QPSK	1	0	23.3	27.7
				1	2	23.3	27.6
				1	5	23.3	27.6
				3	0	23.3	28.1
				3	1	23.3	27.9
				3	2	23.3	27.8
				6	0	22.4	27.3
			16QAM	1	0	22.4	26.7
				1	2	22.3	26.7
				1	5	22.3	26.6
				3	0	22.4	27.1
				3	1	22.3	27.1
				3	2	22.3	27.0
				6	0	21.6	27.4
1.4	23173	715.3	QPSK	1	0	23.4	27.0
				1	2	23.3	26.9
				1	5	23.3	27.0
				3	0	23.3	27.4
				3	1	23.2	27.2
				3	2	23.2	27.4
				6	0	22.5	27.3
			16QAM	1	0	22.5	26.3
				1	2	22.5	26.6
				1	5	22.5	26.3
				3	0	22.5	26.9
				3	1	22.6	26.9
				3	2	22.6	26.8
				6	0	21.6	27.2

OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	23025	700.5	QPSK	1	0	23.3	27.3
				1	7	23.3	26.9
				1	14	23.3	27.0
				8	0	22.3	26.5
				8	4	22.3	26.2
				8	7	22.3	25.9
				15	0	22.5	27.2
			16QAM	1	0	22.3	26.2
				1	7	22.3	26.1
				1	14	22.3	26.0
				8	0	21.3	26.4
				8	4	21.3	26.2
				8	7	21.3	25.9
				15	0	21.3	26.9
3.0	23095	707.5	QPSK	1	0	23.5	27.8
				1	7	23.4	27.6
				1	14	23.4	27.7
				8	0	22.4	27.3
				8	4	22.4	27.0
				8	7	22.4	26.9
				15	0	22.5	27.6
			16QAM	1	0	22.5	26.4
				1	7	22.5	26.4
				1	14	22.4	26.4
				8	0	21.5	27.3
				8	4	21.5	27.0
				8	7	21.5	27.0
				15	0	21.5	27.5
3.0	23165	714.5	QPSK	1	0	23.2	27.2
				1	7	23.2	27.2
				1	14	23.2	27.3
				8	0	22.5	26.6
				8	4	22.4	26.2
				8	7	22.4	26.3
				15	0	22.3	27.1
			16QAM	1	0	22.3	25.7
				1	7	22.3	25.8
				1	14	22.2	26.0
				8	0	21.5	26.5
				8	4	21.4	26.1
				8	7	21.5	26.3
				15	0	21.3	26.9

OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23035	701.5	QPSK	1	0	23.4	27.2
				1	12	23.4	27.1
				1	24	23.4	27.4
				12	0	22.4	26.3
				12	6	22.4	26.2
				12	11	22.4	26.3
				25	0	22.6	27.2
			16QAM	1	0	22.5	26.1
				1	12	22.5	25.9
				1	24	22.6	26.2
				12	0	21.5	26.2
				12	6	21.4	26.0
				12	11	21.5	26.2
				25	0	21.7	27.1
5.0	23095	707.5	QPSK	1	0	23.5	27.6
				1	12	23.4	27.5
				1	24	23.5	27.5
				12	0	22.5	27.0
				12	6	22.4	26.9
				12	11	22.4	27.0
				25	0	22.6	27.8
			16QAM	1	0	22.5	26.5
				1	12	22.5	26.3
				1	24	22.5	26.3
				12	0	21.5	27.1
				12	6	21.5	26.7
				12	11	21.5	26.9
				25	0	21.6	27.5
5.0	23155	713.5	QPSK	1	0	23.5	27.2
				1	12	23.4	27.0
				1	24	23.4	27.0
				12	0	22.4	26.6
				12	6	22.4	26.2
				12	11	22.4	26.5
				25	0	22.6	27.2
			16QAM	1	0	22.5	26.2
				1	12	22.4	25.9
				1	24	22.5	26.0
				12	0	21.5	26.4
				12	6	21.5	26.0
				12	11	21.4	26.2
				25	0	21.6	26.8

OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23060	704.0	QPSK	1	0	23.4	27.1
				1	24	23.3	27.4
				1	49	23.4	27.6
				25	0	22.4	26.3
				25	12	22.3	26.2
				25	24	22.3	26.9
				50	0	22.4	27.3
			16QAM	1	0	22.4	26.0
				1	24	22.4	26.3
				1	49	22.5	26.6
				25	0	21.5	26.3
				25	12	21.5	26.3
				25	24	21.5	26.9
				50	0	21.5	27.2
10.0	23095	707.5	QPSK	1	0	23.4	27.2
				1	24	23.4	27.5
				1	49	23.4	27.1
				25	0	22.4	27.0
				25	12	22.4	26.8
				25	24	22.4	27.0
				50	0	22.5	27.5
			16QAM	1	0	22.6	26.3
				1	24	22.5	26.7
				1	49	22.6	26.2
				25	0	21.4	26.9
				25	12	21.4	26.7
				25	24	21.5	27.0
				50	0	21.6	27.6
10.0	23130	711.0	QPSK	1	0	23.5	27.6
				1	24	23.4	27.4
				1	49	23.5	27.1
				25	0	22.3	27.0
				25	12	22.4	26.4
				25	24	22.4	26.5
				50	0	22.4	27.3
			16QAM	1	0	22.3	26.4
				1	24	22.3	26.1
				1	49	22.3	25.9
				25	0	21.4	26.9
				25	12	21.3	26.3
				25	24	21.5	26.3
				50	0	21.3	26.9

7.2.6. LTE BAND 13

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OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23207	779.5	QPSK	1	0	23.3	27.2
				1	12	23.3	27.2
				1	24	23.4	27.9
				12	0	22.5	26.8
				12	6	22.3	26.6
				12	11	22.3	26.6
				25	0	22.3	27.3
			16QAM	1	0	22.4	26.3
				1	12	22.3	26.1
				1	24	22.5	26.9
				12	0	21.5	26.8
				12	6	21.5	26.6
				12	11	21.5	26.6
				25	0	21.5	27.1
5.0	23230	782.0	QPSK	1	0	23.4	27.4
				1	12	23.4	27.8
				1	24	23.4	27.4
				12	0	22.3	27.0
				12	6	22.4	27.0
				12	11	22.4	27.0
				25	0	22.5	27.6
			16QAM	1	0	22.5	26.2
				1	12	22.6	26.8
				1	24	22.5	26.3
				12	0	21.4	27.1
				12	6	21.5	27.0
				12	11	21.5	27.0
				25	0	21.6	27.6
5.0	23255	784.5	QPSK	1	0	23.4	27.7
				1	12	23.3	27.3
				1	24	23.3	27.2
				12	0	22.4	26.9
				12	6	22.4	26.6
				12	11	22.4	26.6
				25	0	22.5	27.6
			16QAM	1	0	22.4	26.5
				1	12	22.5	26.0
				1	24	22.4	25.9
				12	0	21.5	26.9
				12	6	21.6	26.5
				12	11	21.5	26.5
				25	0	21.5	27.4

OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23230	782.0	QPSK	1	0	23.3	27.3
				1	24	23.4	27.9
				1	49	23.4	27.6
				25	0	22.3	26.6
				25	12	22.3	26.7
				25	24	22.4	26.8
				50	0	22.4	27.6
			16QAM	1	0	22.4	26.4
				1	24	22.4	26.8
				1	49	22.4	26.5
				25	0	21.4	26.6
				25	12	21.4	26.8
				25	24	21.5	26.8
				50	0	21.5	27.4

7.2.7. LTE BAND 17

ID:	50820	Date:	6/6/16
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OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	23755	706.5	QPSK	1	0	23.4	27.3
				1	12	23.4	27.5
				1	24	23.4	27.5
				12	0	22.4	26.9
				12	6	22.3	26.7
				12	11	22.4	26.9
				25	0	22.6	27.6
			16QAM	1	0	22.6	26.5
				1	12	22.6	26.6
				1	24	22.6	26.6
				12	0	21.4	26.9
				12	6	21.4	26.6
				12	11	21.4	26.8
				25	0	21.7	27.7
5.0	23790	710.0	QPSK	1	0	23.3	27.5
				1	12	23.3	27.4
				1	24	23.4	27.1
				12	0	22.3	26.9
				12	6	22.3	26.6
				12	11	22.3	26.6
				25	0	22.3	27.2
			16QAM	1	0	22.3	26.0
				1	12	22.2	25.9
				1	24	22.1	25.5
				12	0	21.4	26.7
				12	6	21.4	26.5
				12	11	21.3	26.5
				25	0	21.4	27.2
5.0	23825	713.5	QPSK	1	0	23.2	27.2
				1	12	23.3	26.8
				1	24	23.3	26.9
				12	0	22.4	26.4
				12	6	22.4	26.1
				12	11	22.4	26.3
				25	0	23.3	28.0
			16QAM	1	0	22.4	25.9
				1	12	22.3	25.7
				1	24	22.3	25.6
				12	0	21.4	26.5
				12	6	21.4	26.1
				12	11	21.4	26.1
				25	0	21.5	27.0

OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	23780	709.0	QPSK	1	0	23.5	27.5
				1	24	23.2	27.6
				1	49	23.4	27.1
				25	0	22.3	27.1
				25	12	22.3	26.7
				25	24	22.4	26.7
				50	0	22.6	27.6
			16QAM	1	0	22.6	26.5
				1	24	22.5	26.6
				1	49	22.6	26.1
				25	0	21.4	27.1
				25	12	21.4	26.7
				25	24	21.5	26.7
				50	0	21.7	27.5
10.0	23790	710.0	QPSK	1	0	23.1	27.4
				1	24	23.1	27.3
				1	49	23.2	27.0
				25	0	22.2	27.1
				25	12	22.3	26.5
				25	24	22.5	26.4
				50	0	22.1	27.0
			16QAM	1	0	22.2	26.5
				1	24	22.2	26.4
				1	49	22.3	26.1
				25	0	21.3	27.0
				25	12	21.3	26.5
				25	24	21.4	26.4
				50	0	21.2	27.1
10.0	23800	711.0	QPSK	1	0	23.4	27.6
				1	24	23.3	27.3
				1	49	23.4	27.1
				25	0	22.4	26.9
				25	12	22.3	26.4
				25	24	22.3	26.3
				50	0	22.5	27.5
			16QAM	1	0	22.4	26.7
				1	24	22.3	26.5
				1	49	22.4	26.1
				25	0	21.4	27.0
				25	12	21.4	26.4
				25	24	21.4	26.4
				50	0	21.5	27.3

7.2.8. LTE BAND 25

ID:	44366	Date:	6/6/16
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OUTPUT POWER FOR LTE BAND 25 (1.4MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	26047	1850.7	QPSK	1	0	21.0	25.9
				1	2	20.9	25.8
				1	5	21.0	25.8
				3	0	20.9	26.4
				3	1	20.9	26.3
				3	2	21.0	26.3
				6	0	20.0	25.6
			16QAM	1	0	20.1	25.3
				1	2	20.0	25.2
				1	5	20.1	25.2
				3	0	20.0	25.4
				3	1	20.0	25.3
				3	2	20.1	25.3
				6	0	19.1	25.4
1.4	26365	1882.5	QPSK	1	0	20.9	25.6
				1	2	20.9	25.5
				1	5	20.9	25.5
				3	0	20.9	25.8
				3	1	20.9	25.7
				3	2	20.9	25.7
				6	0	20.0	25.4
			16QAM	1	0	19.9	24.2
				1	2	19.9	24.3
				1	5	19.9	24.1
				3	0	20.0	24.8
				3	1	19.9	25.0
				3	2	19.9	25.0
				6	0	18.9	25.2
1.4	26683	1914.3	QPSK	1	0	21.0	25.3
				1	2	21.0	25.4
				1	5	20.9	25.4
				3	0	20.9	25.4
				3	1	20.9	25.4
				3	2	20.8	25.4
				6	0	20.1	24.6
			16QAM	1	0	20.0	24.3
				1	2	20.0	24.3
				1	5	20.0	24.3
				3	0	19.9	24.3
				3	1	19.8	24.3
				3	2	19.8	24.3
				6	0	19.1	24.5

OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	26055	1851.5	QPSK	1	0	20.9	25.8
				1	7	20.9	25.6
				1	14	20.8	25.5
				8	0	19.9	25.1
				8	4	19.9	25.0
				8	7	19.9	24.9
			16QAM	15	0	20.0	25.6
				1	0	20.0	25.0
				1	7	20.0	24.9
				1	14	19.9	24.7
				8	0	18.8	24.9
				8	4	18.9	24.8
				8	7	18.9	24.8
				15	0	19.0	25.3
3.0	26365	1882.5	QPSK	1	0	20.9	25.5
				1	7	20.9	25.3
				1	14	20.8	25.2
				8	0	19.9	24.9
				8	4	19.9	24.7
				8	7	19.9	24.6
			16QAM	15	0	20.0	25.1
				1	0	19.9	24.6
				1	7	19.9	24.5
				1	14	19.8	24.3
				8	0	19.0	24.8
				8	4	18.9	24.8
				8	7	18.9	24.6
				15	0	18.9	24.8
3.0	26675	1913.5	QPSK	1	0	20.9	25.1
				1	7	20.9	25.2
				1	14	20.8	25.2
				8	0	19.9	24.6
				8	4	19.9	24.4
				8	7	19.9	24.4
			16QAM	15	0	20.0	24.8
				1	0	20.0	24.0
				1	7	20.0	24.0
				1	14	19.8	24.2
				8	0	19.0	24.5
				8	4	19.0	24.4
				8	7	19.0	24.5
				15	0	19.0	25.0

OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	26065	1852.5	QPSK	1	0	21.0	25.5
				1	12	20.9	25.3
				1	24	20.9	25.2
				12	0	19.9	24.8
				12	6	20.0	24.6
				12	11	19.9	24.7
				25	0	20.0	25.4
			16QAM	1	0	19.9	24.8
				1	12	19.9	24.5
				1	24	19.8	24.2
				12	0	19.0	24.8
				12	6	19.0	24.6
				12	11	18.9	24.6
				25	0	19.0	25.2
5.0	26365	1882.5	QPSK	1	0	20.9	25.2
				1	12	20.8	25.0
				1	24	20.7	24.8
				12	0	19.8	24.5
				12	6	19.8	24.3
				12	11	19.7	24.3
				25	0	19.9	25.1
			16QAM	1	0	19.9	24.1
				1	12	19.7	24.0
				1	24	19.6	23.6
				12	0	18.8	24.4
				12	6	18.8	24.2
				12	11	18.7	24.1
				25	0	18.9	24.9
5.0	26665	1912.5	QPSK	1	0	20.9	24.5
				1	12	20.8	24.6
				1	24	20.7	24.8
				12	0	19.8	24.0
				12	6	19.7	23.8
				12	11	19.6	24.1
				25	0	19.9	24.6
			16QAM	1	0	19.8	23.5
				1	12	19.7	23.6
				1	24	19.6	23.6
				12	0	18.9	24.0
				12	6	18.8	23.7
				12	11	18.7	24.0
				25	0	18.8	24.5

OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	26090	1855.0	QPSK	1	0	20.8	25.5
				1	24	20.7	25.1
				1	49	20.7	24.7
				25	0	19.6	24.4
				25	12	19.6	24.1
				25	24	19.6	23.9
				50	0	19.8	25.1
			16QAM	1	0	19.8	24.7
				1	24	19.7	24.2
				1	49	19.8	23.8
				25	0	18.8	24.5
				25	12	18.7	24.1
				25	24	18.8	24.1
				50	0	18.8	25.2
10.0	26365	1882.5	QPSK	1	0	20.7	25.4
				1	24	20.6	25.2
				1	49	20.4	24.7
				25	0	19.6	24.4
				25	12	19.5	24.2
				25	24	19.5	24.0
				50	0	19.7	25.3
			16QAM	1	0	19.7	24.0
				1	24	19.5	23.8
				1	49	19.3	23.2
				25	0	18.7	24.5
				25	12	18.6	24.2
				25	24	18.6	24.0
				50	0	18.7	25.0
10.0	26640	1910.0	QPSK	1	0	20.7	25.3
				1	24	21.0	24.8
				1	49	20.9	25.1
				25	0	19.8	24.3
				25	12	19.9	24.1
				25	24	19.8	24.3
				50	0	19.8	24.9
			16QAM	1	0	19.8	24.4
				1	24	19.9	23.8
				1	49	19.9	24.2
				25	0	18.8	24.1
				25	12	18.9	23.7
				25	24	18.9	24.0
				50	0	18.8	24.7

OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	26115	1857.5	QPSK	1	0	21.0	25.9
				1	37	21.0	25.2
				1	74	21.0	25.2
				36	0	19.8	24.7
				36	16	19.9	24.1
				36	35	19.8	24.0
				75	0	20.0	25.6
			16-QAM	1	0	20.0	24.8
				1	37	20.0	24.1
				1	74	19.9	24.0
				36	0	18.8	24.7
				36	16	18.9	24.1
				36	35	18.8	24.0
				75	0	19.1	25.5
15.0	26365	1882.5	QPSK	1	0	20.9	25.6
				1	37	20.8	25.2
				1	74	20.7	24.7
				36	0	19.8	24.8
				36	16	19.8	24.4
				36	35	19.7	24.2
				75	0	19.9	25.4
			16-QAM	1	0	19.9	24.8
				1	37	19.8	24.4
				1	74	19.7	23.8
				36	0	18.8	24.7
				36	16	18.7	24.4
				36	35	18.6	24.1
				75	0	18.9	25.4
15.0	26615	1907.5	QPSK	1	0	20.9	25.6
				1	37	20.8	25.0
				1	74	20.9	25.3
				36	0	19.8	25.0
				36	16	19.9	24.5
				36	35	20.0	24.7
				75	0	20.0	25.7
			16-QAM	1	0	19.9	24.9
				1	37	19.6	24.1
				1	74	19.8	24.3
				36	0	18.8	24.8
				36	16	18.8	24.2
				36	35	18.9	24.2
				75	0	19.0	25.5

OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	26140	1860.0	QPSK	1	0	20.9	25.5
				1	49	20.9	24.9
				1	99	20.9	25.2
				50	0	19.9	24.7
				50	24	19.9	23.9
				50	49	19.9	24.4
				100	0	20.0	25.6
			16-QAM	1	0	19.9	24.7
				1	49	19.8	23.9
				1	99	19.9	24.4
				50	0	19.0	24.8
				50	24	18.9	24.1
				50	49	18.9	24.4
				100	0	19.0	25.3
20.0	26365	1882.5	QPSK	1	0	20.9	25.6
				1	49	20.8	25.3
				1	99	20.8	24.9
				50	0	19.8	24.8
				50	24	19.8	24.5
				50	49	19.7	24.3
				100	0	19.8	25.5
			16-QAM	1	0	19.9	24.4
				1	49	19.7	24.1
				1	99	19.7	23.6
				50	0	18.9	24.8
				50	24	18.9	24.5
				50	49	18.8	24.3
				100	0	18.9	25.3
20.0	26590	1905.0	QPSK	1	0	20.8	25.2
				1	49	20.7	25.4
				1	99	20.9	25.3
				50	0	19.7	25.1
				50	24	19.8	25.0
				50	49	19.9	25.0
				100	0	19.7	25.4
			16-QAM	1	0	19.8	24.0
				1	49	19.7	24.2
				1	99	19.8	24.0
				50	0	18.8	25.0
				50	24	18.9	24.9
				50	49	19.1	24.9
				100	0	18.8	25.3

7.2.9. LTE BAND 26

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OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	26697	814.7	QPSK	1	0	22.4	27.0
				1	2	22.4	27.0
				1	5	22.5	27.0
				3	0	22.3	27.6
				3	1	22.4	27.4
				3	2	22.4	27.4
			16QAM	6	0	21.5	26.9
				1	0	21.4	26.2
				1	2	21.4	26.2
				1	5	21.5	26.2
				3	0	21.5	27.1
				3	1	21.5	26.9
				3	2	21.5	26.8
				6	0	20.5	26.8
1.4	26740	819.0	QPSK	1	0	22.5	27.2
				1	2	22.4	27.2
				1	5	22.5	27.2
				3	0	22.4	27.7
				3	1	22.4	27.6
				3	2	22.4	27.5
			16QAM	6	0	21.5	27.0
				1	0	21.5	26.3
				1	2	21.5	26.4
				1	5	21.5	26.2
				3	0	21.5	27.1
				3	1	21.5	27.1
				3	2	21.5	27.1
				6	0	20.6	27.1
1.4	26783	823.3	QPSK	1	0	22.5	27.3
				1	2	22.4	27.2
				1	5	22.4	27.3
				3	0	22.5	27.8
				3	1	22.4	27.7
				3	2	22.4	27.7
			16QAM	6	0	21.5	27.1
				1	0	21.5	26.3
				1	2	21.4	26.3
				1	5	21.4	26.3
				3	0	21.6	27.1
				3	1	21.5	27.3
				3	2	21.5	27.2
				6	0	20.6	26.8

OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	26705	815.5	QPSK	1	0	22.3	27.1
				1	7	22.4	27.0
				1	14	22.5	27.0
				8	0	21.4	26.5
				8	4	21.4	26.3
				8	7	21.4	26.3
				15	0	21.4	27.0
			16QAM	1	0	21.5	26.3
				1	7	21.5	26.1
				1	14	21.5	26.1
				8	0	20.5	26.6
				8	4	20.6	26.5
				8	7	20.6	26.4
				15	0	20.5	27.1
3.0	26740	819.0	QPSK	1	0	22.4	27.2
				1	7	22.5	27.1
				1	14	22.4	27.1
				8	0	21.4	26.8
				8	4	21.4	26.7
				8	7	21.4	26.6
				15	0	21.4	27.1
			16QAM	1	0	21.4	26.2
				1	7	21.5	26.1
				1	14	21.4	26.1
				8	0	20.5	26.9
				8	4	20.5	26.7
				8	7	20.5	26.7
				15	0	20.5	26.8
3.0	26775	822.5	QPSK	1	0	22.5	27.4
				1	7	22.3	27.3
				1	14	22.2	27.4
				8	0	21.5	26.8
				8	4	21.3	26.7
				8	7	21.3	26.6
				15	0	21.5	27.0
			16QAM	1	0	21.5	26.4
				1	7	21.2	26.3
				1	14	21.2	26.4
				8	0	20.5	26.6
				8	4	20.3	26.4
				8	7	20.2	26.4
				15	0	20.5	27.0

OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	26715	816.5	QPSK	1	0	22.4	26.8
				1	12	22.5	26.8
				1	24	22.4	26.8
				12	0	21.5	26.3
				12	6	21.5	26.1
				12	11	21.4	26.2
				25	0	21.4	26.9
			16QAM	1	0	21.4	25.7
				1	12	21.5	25.5
				1	24	21.4	25.6
				12	0	20.5	26.2
				12	6	20.6	26.0
				12	11	20.5	26.0
				25	0	20.5	26.6
5.0	26740	819.0	QPSK	1	0	22.3	27.1
				1	12	22.3	26.9
				1	24	22.2	26.9
				12	0	21.4	26.5
				12	6	21.4	26.3
				12	11	21.4	26.3
				25	0	21.4	26.9
			16QAM	1	0	21.2	26.1
				1	12	21.2	25.9
				1	24	21.1	25.9
				12	0	20.5	26.5
				12	6	20.5	26.3
				12	11	20.5	26.3
				25	0	20.2	26.7
5.0	26765	821.5	QPSK	1	0	22.5	27.3
				1	12	22.3	27.1
				1	24	22.2	27.1
				12	0	21.4	26.7
				12	6	21.3	26.5
				12	11	21.2	26.5
				25	0	21.5	27.1
			16QAM	1	0	21.5	26.4
				1	12	21.3	26.1
				1	24	21.2	26.1
				12	0	20.4	26.6
				12	6	20.4	26.3
				12	11	20.2	26.3
				25	0	20.6	27.1

OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	26740	819.0	QPSK	1	0	22.3	27.1
				1	24	22.3	27.1
				1	49	22.3	27.6
				25	0	21.5	26.3
				25	12	21.3	26.2
				25	24	21.3	26.6
				50	0	21.4	27.1
			16QAM	1	0	21.4	25.9
				1	24	21.3	25.9
				1	49	21.3	26.5
				25	0	20.5	26.3
				25	12	20.4	26.2
				25	24	20.3	26.6
				50	0	20.4	27.0

7.2.10. LTE BAND 27

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OUTPUT POWER FOR LTE BAND 27 (1.4 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
1.4	27117	814.7	QPSK	1	0	22.4	27.3
				1	2	22.3	27.1
				1	5	22.4	27.3
				3	0	22.3	28.0
				3	1	22.3	27.8
				3	2	22.3	27.8
			16QAM	6	0	21.5	27.1
				1	0	21.5	26.6
				1	2	21.4	26.4
				1	5	21.5	26.6
				3	0	21.4	26.8
				3	1	21.4	26.9
				3	2	21.4	26.9
				6	0	20.7	27.2
1.4	27160	819.0	QPSK	1	0	22.5	27.4
				1	2	22.4	27.2
				1	5	22.4	27.3
				3	0	22.4	27.6
				3	1	22.4	27.5
				3	2	22.4	27.5
			16QAM	6	0	21.6	27.3
				1	0	21.6	26.3
				1	2	21.5	26.2
				1	5	21.6	26.1
				3	0	21.5	26.8
				3	1	21.5	26.7
				3	2	21.5	26.6
				6	0	20.7	26.8
1.4	27203	823.3	QPSK	1	0	22.4	27.6
				1	2	22.4	27.6
				1	5	22.4	27.6
				3	0	22.3	27.8
				3	1	22.3	27.8
				3	2	22.3	27.8
			16QAM	6	0	21.5	27.5
				1	0	21.5	26.7
				1	2	21.6	26.7
				1	5	21.5	26.6
				3	0	21.3	27.0
				3	1	21.3	27.2
				3	2	21.3	27.2
				6	0	20.7	27.4

OUTPUT POWER FOR LTE BAND 27 (3.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
3.0	27125	815.5	QPSK	1	0	22.4	27.6
				1	7	22.4	27.5
				1	14	22.4	27.6
				8	0	21.4	26.9
				8	4	21.5	27.0
				8	7	21.4	26.9
				15	0	21.5	27.3
			16QAM	1	0	21.5	26.8
				1	7	21.5	26.6
				1	14	21.5	26.9
				8	0	20.5	26.9
				8	4	20.5	26.9
				8	7	20.4	26.8
				15	0	20.5	27.4
3.0	27160	819.0	QPSK	1	0	22.3	27.2
				1	7	22.3	27.0
				1	14	22.3	27.1
				8	0	21.4	26.6
				8	4	21.3	26.4
				8	7	21.3	26.4
				15	0	21.4	27.0
			16QAM	1	0	21.3	26.2
				1	7	21.3	26.0
				1	14	21.2	26.0
				8	0	20.4	26.3
				8	4	20.4	26.2
				8	7	20.4	26.2
				15	0	20.3	26.6
3.0	27195	822.5	QPSK	1	0	22.4	27.5
				1	7	22.4	27.6
				1	14	22.3	27.6
				8	0	21.4	26.7
				8	4	21.4	26.7
				8	7	21.4	26.7
				15	0	21.5	27.2
			16QAM	1	0	21.5	26.4
				1	7	21.4	26.4
				1	14	21.3	26.5
				8	0	20.5	26.7
				8	4	20.4	26.8
				8	7	20.4	26.7
				15	0	20.5	26.9

OUTPUT POWER FOR LTE BAND 27 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	27135	816.5	QPSK	1	0	22.3	27.3
				1	12	22.2	27.3
				1	24	22.2	27.3
				12	0	21.4	26.8
				12	6	21.4	26.7
				12	11	21.4	26.7
				25	0	21.3	26.9
			16QAM	1	0	21.4	26.1
				1	12	21.3	26.2
				1	24	21.3	26.2
				12	0	20.4	26.7
				12	6	20.4	26.6
				12	11	20.4	26.6
				25	0	20.4	26.9
5.0	27160	819.0	QPSK	1	0	22.2	27.2
				1	12	22.3	27.0
				1	24	22.3	26.9
				12	0	21.4	26.4
				12	6	21.3	26.3
				12	11	21.3	26.2
				25	0	21.3	26.6
			16QAM	1	0	21.3	26.2
				1	12	21.3	25.9
				1	24	21.3	25.8
				12	0	20.4	26.4
				12	6	20.4	26.2
				12	11	20.3	26.1
				25	0	20.3	26.5
5.0	27185	821.5	QPSK	1	0	22.4	27.0
				1	12	22.4	27.1
				1	24	22.4	27.3
				12	0	21.5	26.7
				12	6	21.4	26.5
				12	11	21.4	26.7
				25	0	21.7	27.4
			16QAM	1	0	21.5	26.2
				1	12	21.4	26.4
				1	24	21.4	26.6
				12	0	20.5	26.4
				12	6	20.4	26.3
				12	11	20.4	26.4
				25	0	20.5	26.9

OUTPUT POWER FOR LTE BAND 27 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	27160	819.0	QPSK	1	0	22.5	27.1
				1	24	22.3	26.9
				1	49	22.3	27.1
				25	0	21.4	26.5
				25	12	21.3	26.2
				25	24	21.3	26.4
				50	0	21.5	27.2
			16QAM	1	0	21.5	26.2
				1	24	21.3	25.9
				1	49	21.2	26.3
				25	0	20.4	26.3
				25	12	20.4	26.0
				25	24	20.4	26.3
				50	0	20.5	27.0

7.2.11. LTE BAND 30

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OUTPUT POWER FOR LTE BAND 30 (5.0 MH)

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	27685	2307.5	QPSK	1	0	19.7	25.0
				1	12	19.8	25.4
				1	24	19.9	25.2
				12	0	18.9	24.6
				12	6	18.9	24.4
				12	11	19.0	24.4
				25	0	19.0	24.9
			16QAM	1	0	19.2	24.3
				1	12	19.1	24.4
				1	24	19.2	24.1
				12	0	18.1	24.4
				12	6	18.1	24.3
				12	11	18.1	24.3
				25	0	18.0	24.4
5.0	27710	2310.0	QPSK	1	0	20.0	25.0
				1	12	19.7	24.5
				1	24	19.9	24.4
				12	0	19.0	24.2
				12	6	19.0	24.1
				12	11	19.1	24.2
				25	0	19.1	24.5
			16QAM	1	0	19.1	24.1
				1	12	19.2	23.9
				1	24	19.3	23.9
				12	0	18.2	24.3
				12	6	18.2	24.1
				12	11	18.3	24.2
				25	0	18.2	24.4
5.0	27735	2312.5	QPSK	1	0	19.8	24.5
				1	12	19.9	24.4
				1	24	20.0	24.4
				12	0	19.3	24.3
				12	6	19.3	24.0
				12	11	19.3	24.1
				25	0	19.3	24.6
			16QAM	1	0	19.2	23.8
				1	12	19.2	23.8
				1	24	19.3	23.7
				12	0	18.3	24.1
				12	6	18.3	23.8
				12	11	18.3	24.0
				25	0	18.3	24.4

OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	27710	2310.0	QPSK	1	0	19.7	25.1
				1	24	19.7	23.8
				1	49	20.0	24.8
				25	0	18.8	24.5
				25	12	18.7	24.0
				25	24	18.9	24.1
				50	0	18.9	24.5
			16QAM	1	0	18.7	24.1
				1	24	18.7	23.8
				1	49	19.0	23.8
				25	0	18.0	24.5
				25	12	18.1	24.1
				25	24	18.3	24.3
				50	0	18.2	24.8

7.2.12. LTE BAND 41

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OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
5.0	39675	2498.5	QPSK	1	0	20.0	23.9
				1	12	19.9	24.1
				1	24	19.9	24.3
				12	0	19.0	23.1
				12	6	18.9	23.0
				12	11	18.9	23.1
				25	0	19.0	23.8
			16QAM	1	0	18.7	22.1
				1	12	18.7	22.2
				1	24	18.7	22.3
				12	0	18.1	23.1
				12	6	18.0	23.0
				12	11	18.1	23.2
				25	0	18.0	23.4
5.0	40620	2593.0	QPSK	1	0	19.8	24.9
				1	12	19.7	24.8
				1	24	19.7	24.8
				12	0	18.7	24.1
				12	6	18.7	24.0
				12	11	18.7	24.0
				25	0	18.8	24.4
			16QAM	1	0	18.9	23.6
				1	12	18.7	23.4
				1	24	18.8	23.3
				12	0	17.9	24.2
				12	6	17.9	24.3
				12	11	17.9	24.2
				25	0	17.8	24.3
5.0	41565	2687.5	QPSK	1	0	20.0	24.8
				1	12	20.0	24.7
				1	24	19.9	24.6
				12	0	19.1	24.1
				12	6	19.0	24.1
				12	11	19.0	24.1
				25	0	19.1	24.5
			16QAM	1	0	19.3	23.8
				1	12	19.2	23.7
				1	24	19.2	23.7
				12	0	18.1	24.0
				12	6	18.1	23.9
				12	11	18.1	23.9
				25	0	18.2	24.2

OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
10.0	39700	2501.0	QPSK	1	0	20.0	24.0
				1	24	19.9	24.4
				1	49	20.0	24.5
				25	0	19.0	23.2
				25	12	19.0	23.2
				25	24	18.9	23.4
				50	0	18.9	24.2
			16QAM	1	0	19.3	22.9
				1	24	19.2	23.3
				1	49	19.2	23.4
				25	0	18.1	23.1
				25	12	18.1	23.1
				25	24	18.1	23.3
				50	0	18.0	23.8
10.0	40620	2593.0	QPSK	1	0	19.7	25.2
				1	24	19.8	25.2
				1	49	19.8	25.1
				25	0	18.8	24.2
				25	12	18.8	24.0
				25	24	18.8	24.0
				50	0	18.8	24.7
			16QAM	1	0	19.0	24.1
				1	24	19.0	24.1
				1	49	19.0	23.9
				25	0	17.9	24.2
				25	12	17.8	24.0
				25	24	17.8	23.9
				50	0	17.8	24.7
10.0	41540	2685.0	QPSK	1	0	20.0	25.1
				1	24	20.0	25.0
				1	49	19.9	24.8
				25	0	19.3	24.1
				25	12	19.3	23.9
				25	24	19.2	24.0
				50	0	19.1	24.6
			16QAM	1	0	19.0	23.5
				1	24	18.9	23.3
				1	49	18.9	23.3
				25	0	18.2	24.2
				25	12	18.2	23.9
				25	24	18.1	23.9
				50	0	18.1	24.5

OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
15.0	39725	2503.5	QPSK	1	0	20.0	23.9
				1	37	20.0	24.2
				1	74	20.0	24.2
				36	0	19.1	23.4
				36	16	19.0	23.5
				36	35	19.1	23.6
				75	0	18.9	24.4
			16-QAM	1	0	19.3	23.0
				1	37	19.3	23.4
				1	74	19.3	23.5
				36	0	18.1	23.4
				36	16	18.0	23.4
				36	35	18.1	23.6
				75	0	17.9	24.3
15.0	40620	2593.0	QPSK	1	0	19.8	25.3
				1	37	19.7	25.1
				1	74	19.7	24.9
				36	0	18.8	24.3
				36	16	18.7	24.1
				36	35	18.7	24.0
				75	0	18.7	24.8
			16-QAM	1	0	19.1	24.3
				1	37	19.0	24.1
				1	74	18.9	23.9
				36	0	17.9	24.3
				36	16	17.8	24.2
				36	35	17.8	24.0
				75	0	17.7	24.7
15.0	41515	2682.5	QPSK	1	0	20.0	25.2
				1	37	20.0	25.2
				1	74	19.8	24.9
				36	0	19.1	24.2
				36	16	19.0	24.1
				36	35	19.0	24.0
				75	0	19.0	25.0
			16-QAM	1	0	19.3	24.2
				1	37	19.3	24.2
				1	74	19.2	23.8
				36	0	18.2	24.2
				36	16	18.1	24.1
				36	35	18.1	24.0
				75	0	18.0	24.5

OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average (dBm)	Peak (dBm)
				Size	Offset		
20.0	39750	2506.0	QPSK	1	0	19.9	23.9
				1	49	19.9	24.4
				1	99	20.0	24.5
				50	0	18.9	23.5
				50	24	19.0	23.5
				50	49	18.9	23.6
				100	0	18.9	24.5
			16-QAM	1	0	19.2	22.9
				1	49	19.3	23.5
				1	99	19.3	23.6
				50	0	18.0	23.5
				50	24	18.0	23.5
				50	49	18.0	23.5
				100	0	18.0	24.5
20.0	40620	2593.0	QPSK	1	0	20.0	25.1
				1	49	19.9	24.9
				1	99	19.8	24.7
				50	0	19.8	25.3
				50	24	18.7	24.1
				50	49	18.7	24.0
				100	0	18.7	25.0
			16-QAM	1	0	19.0	24.4
				1	49	18.9	24.2
				1	99	18.9	23.8
				50	0	17.9	24.2
				50	24	17.8	24.1
				50	49	17.8	23.9
				100	0	17.7	24.9
20.0	41490	2680.0	QPSK	1	0	20.0	24.8
				1	49	20.0	24.8
				1	99	19.9	24.6
				50	0	19.0	24.1
				50	24	19.0	24.1
				50	49	19.0	24.0
				100	0	18.9	24.8
			16-QAM	1	0	19.3	24.0
				1	49	19.2	24.0
				1	99	19.1	23.6
				50	0	18.1	24.1
				50	24	18.1	24.0
				50	49	18.0	24.0
				100	0	17.9	24.8

8. CONDUCTED TEST RESULTS

8.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 27
- LTE Band 30
- LTE Band 41

RESULTS

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 2	1.4 MHz BAND QPSK	1/0	1880	0.3155919	0.435859
	1.4 MHz BAND QPSK	6/0	1880	1.1109	1.314
	1.4 MHz BAND 16QAM	1/0	1880	0.281892	0.405057
	1.4 MHz BAND 16QAM	6/0	1880	1.1029	1.321
	3.0 MHz BAND QPSK	1/0	1880	0.2938036	0.445771
	3.0 MHz BAND QPSK	15/0	1880	2.6878	2.968
	3.0 MHz BAND 16QAM	1/0	1880	0.3192812	0.459377
	3.0 MHz BAND 16QAM	15/0	1880	2.685	2.996
	5.0 MHz BAND QPSK	1/0	1880	0.3172848	0.482921
	5.0 MHz BAND QPSK	25/0	1880	4.4654	5.175
	5.0 MHz BAND 16QAM	1/0	1880	0.301772	0.454662
	5.0 MHz BAND 16QAM	25/0	1880	4.4736	5.193
	10.0 MHz BAND QPSK	1/0	1880	0.2941634	0.461381
	10.0 MHz BAND QPSK	50/0	1880	8.9629	10.316
	10.0 MHz BAND 16QAM	1/0	1880	0.3104985	0.472094
	10.0 MHz BAND 16QAM	50/0	1880	8.969	10.232
	15.0 MHz BAND QPSK	1/0	1880	0.2989088	0.476561
	15.0 MHz BAND QPSK	75/0	1880	13.4316	14.791
	15.0 MHz BAND 16QAM	1/0	1880	0.3261489	0.498202
	15.0 MHz BAND 16QAM	75/0	1880	13.4127	14.774
	20.0 MHz BAND QPSK	1/0	1880	0.2686268	0.452723
	20.0 MHz BAND QPSK	100/0	1880	17.8724	19.681
	20.0 MHz BAND 16QAM	1/0	1880	0.3381209	0.498241
	20.0 MHz BAND 16QAM	100/0	1880	17.8791	19.765

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 4	1.4 MHz BAND QPSK	1/0	1732.5	0.2656257	0.371865
	1.4 MHz BAND QPSK	6/0	1732.5	1.111	1.318
	1.4 MHz BAND 16QAM	1/0	1732.5	0.2863501	0.386993
	1.4 MHz BAND 16QAM	6/0	1732.5	1.0996	1.308
	3.0 MHz BAND QPSK	1/0	1732.5	0.2837289	0.437647
	3.0 MHz BAND QPSK	15/0	1732.5	2.6883	2.996
	3.0 MHz BAND 16QAM	1/0	1732.5	0.3174453	0.445495
	3.0 MHz BAND 16QAM	15/0	1732.5	2.7008	2.988
	5.0 MHz BAND QPSK	1/0	1732.5	0.2739615	0.463449
	5.0 MHz BAND QPSK	25/0	1732.5	4.4779	5.159
	5.0 MHz BAND 16QAM	1/0	1732.5	0.3003461	0.421624
	5.0 MHz BAND 16QAM	25/0	1732.5	4.4816	5.134
	10.0 MHz BAND QPSK	1/0	1732.5	0.3063195	0.47719
	10.0 MHz BAND QPSK	50/0	1732.5	8.9506	10.396
	10.0 MHz BAND 16QAM	1/0	1732.5	0.3184641	0.461482
	10.0 MHz BAND 16QAM	50/0	1732.5	8.9662	10.13
	15.0 MHz BAND QPSK	1/0	1732.5	0.2708328	0.418921
	15.0 MHz BAND QPSK	75/0	1732.5	13.4722	15.077
	15.0 MHz BAND 16QAM	1/0	1732.5	0.3243023	0.460926
	15.0 MHz BAND 16QAM	75/0	1732.5	13.416	15.132
	20.0 MHz BAND QPSK	1/0	1732.5	0.2711285	0.440486
	20.0 MHz BAND QPSK	100/0	1732.5	17.8983	19.588
	20.0 MHz BAND 16QAM	1/0	1732.5	0.2923844	0.46211
	20.0 MHz BAND 16QAM	100/0	1732.5	17.859	19.374

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 5	1.4 MHz BAND QPSK	1/0	836.5	0.2541440	0.361347
	1.4 MHz BAND QPSK	6/0	836.5	1.1082	1.321
	1.4 MHz BAND 16QAM	1/0	836.5	0.2732089	0.373289
	1.4 MHz BAND 16QAM	6/0	836.5	1.1189	1.316
	3.0 MHz BAND QPSK	1/0	836.5	0.2841787	0.433981
	3.0 MHz BAND QPSK	15/0	836.5	2.6855	2.992
	3.0 MHz BAND 16QAM	1/0	836.5	0.2796174	0.361012
	3.0 MHz BAND 16QAM	15/0	836.5	2.6896	3.001
	5.0 MHz BAND QPSK	1/0	836.5	0.2711294	0.42657
	5.0 MHz BAND QPSK	25/0	836.5	4.4764	5.132
	5.0 MHz BAND 16QAM	1/0	836.5	0.2740235	0.401837
	5.0 MHz BAND 16QAM	25/0	836.5	4.4825	5.171
	10.0 MHz BAND QPSK	1/0	836.5	0.2571769	0.412239
	10.0 MHz BAND QPSK	50/0	836.5	8.9622	10.332
	10.0 MHz BAND 16QAM	1/0	836.5	0.290293	0.468429
	10.0 MHz BAND 16QAM	50/0	836.5	8.9818	10.301

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 7	5.0 MHz BAND QPSK	1/0	2535	0.2680373	0.421701
	5.0 MHz BAND QPSK	25/0	2535	4.486	5.22
	5.0 MHz BAND 16QAM	1/0	2535	0.3116995	0.432431
	5.0 MHz BAND 16QAM	25/0	2535	4.4831	5.181
	10.0 MHz BAND QPSK	1/0	2535	0.268341	0.412299
	10.0 MHz BAND QPSK	50/0	2535	8.9621	10.197
	10.0 MHz BAND 16QAM	1/0	2535	0.3356258	0.486788
	10.0 MHz BAND 16QAM	50/0	2535	8.9626	10.236
	15.0 MHz BAND QPSK	1/0	2535	0.2782394	0.475927
	15.0 MHz BAND QPSK	75/0	2535	13.4135	15.175
	15.0 MHz BAND 16QAM	1/0	2535	0.2893949	0.451471
	15.0 MHz BAND 16QAM	75/0	2535	13.4155	14.893
	20.0 MHz BAND QPSK	1/0	2535	0.2694184	0.434325
	20.0 MHz BAND QPSK	100/0	2535	17.8834	19.442
	20.0 MHz BAND 16QAM	1/0	2535	0.2997981	0.482116
	20.0 MHz BAND 16QAM	100/0	2535	17.8436	19.195

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 12	1.4 MHz BAND QPSK	1/0	707.5	0.2515767	0.370422
	1.4 MHz BAND QPSK	6/0	707.5	1.1077	1.329
	1.4 MHz BAND 16QAM	1/0	707.5	0.2643438	0.395892
	1.4 MHz BAND 16QAM	6/0	707.5	1.1064	1.316
	3.0 MHz BAND QPSK	1/0	707.5	0.2632736	0.399857
	3.0 MHz BAND QPSK	15/0	707.5	2.6937	2.974
	3.0 MHz BAND 16QAM	1/0	707.5	0.2975470	0.433923
	3.0 MHz BAND 16QAM	15/0	707.5	2.6891	3.006
	5.0 MHz BAND QPSK	1/0	707.5	0.2679648	0.426456
	5.0 MHz BAND QPSK	25/0	707.5	4.4832	5.17
	5.0 MHz BAND 16QAM	1/0	707.5	0.2995661	0.479588
	5.0 MHz BAND 16QAM	25/0	707.5	4.4678	5.136
	10.0 MHz BAND QPSK	1/0	707.5	0.2821274	0.430657
	10.0 MHz BAND QPSK	50/0	707.5	8.9503	10.207
	10.0 MHz BAND 16QAM	1/0	707.5	0.305629	0.449081
	10.0 MHz BAND 16QAM	50/0	707.5	8.969	10.393

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 13	5.0 MHz BAND QPSK	1/0	782	0.2851296	0.473197
	5.0 MHz BAND QPSK	25/0	782	4.4794	5.163
	5.0 MHz BAND 16QAM	1/0	782	0.2910217	0.447552
	5.0 MHz BAND 16QAM	25/0	782	4.4811	5.192
	10.0 MHz BAND QPSK	1/0	782	0.281067	0.432716
	10.0 MHz BAND QPSK	50/0	782	8.9501	10.31
	10.0 MHz BAND 16QAM	1/0	782	0.3123466	0.469912
	10.0 MHz BAND 16QAM	50/0	782	8.9468	10.179

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 17	5.0 MHz BAND QPSK	1/0	710	0.2771959	0.415979
	5.0 MHz BAND QPSK	25/0	710	4.4813	5.164
	5.0 MHz BAND 16QAM	1/0	710	0.2847313	0.476683
	5.0 MHz BAND 16QAM	25/0	710	4.4862	5.172
	10.0 MHz BAND QPSK	1/0	710	0.2959129	0.457135
	10.0 MHz BAND QPSK	50/0	710	8.9517	10.237
	10.0 MHz BAND 16QAM	1/0	710	0.2622772	0.4035
	10.0 MHz BAND 16QAM	50/0	710	8.9661	10.24

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 25	1.4 MHz BAND QPSK	1/0	1882.5	0.288903	0.410066
	1.4 MHz BAND QPSK	6/0	1882.5	1.1129	1.334
	1.4 MHz BAND 16QAM	1/0	1882.5	0.3084268	0.406385
	1.4 MHz BAND 16QAM	6/0	1882.5	1.1108	1.325
	3.0 MHz BAND QPSK	1/0	1882.5	0.2968346	0.471388
	3.0 MHz BAND QPSK	15/0	1882.5	2.6908	2.994
	3.0 MHz BAND 16QAM	1/0	1882.5	0.3156903	0.45445
	3.0 MHz BAND 16QAM	15/0	1882.5	2.6884	2.981
	5.0 MHz BAND QPSK	1/0	1882.5	0.2950331	0.451518
	5.0 MHz BAND QPSK	25/0	1882.5	4.4765	5.171
	5.0 MHz BAND 16QAM	1/0	1882.5	0.3000665	0.428336
	5.0 MHz BAND 16QAM	25/0	1882.5	4.4725	5.169
	10.0 MHz BAND QPSK	1/0	1882.5	0.3045357	0.475507
	10.0 MHz BAND QPSK	50/0	1882.5	8.9621	10.341
	10.0 MHz BAND 16QAM	1/0	1882.5	0.3278413	0.472231
	10.0 MHz BAND 16QAM	50/0	1882.5	8.9774	10.305
	15.0 MHz BAND QPSK	1/0	1882.5	0.3101895	0.45567
	15.0 MHz BAND QPSK	75/0	1882.5	13.4227	15.03
	15.0 MHz BAND 16QAM	1/0	1882.5	0.3041758	0.460484
	15.0 MHz BAND 16QAM	75/0	1882.5	13.4655	14.79
	20.0 MHz BAND QPSK	1/0	1882.5	0.2855422	0.447044
	20.0 MHz BAND QPSK	100/0	1882.5	17.8557	19.208
	20.0 MHz BAND 16QAM	1/0	1882.5	0.3058233	0.479991
	20.0 MHz BAND 16QAM	100/0	1882.5	17.8703	19.510

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 26	1.4 MHz BAND QPSK	1/0	819	0.2758293	0.387804
	1.4 MHz BAND QPSK	6/0	819	1.0906	1.303
	1.4 MHz BAND 16QAM	1/0	819	0.3073609	0.420547
	1.4 MHz BAND 16QAM	6/0	819	1.1035	1.32
	3.0 MHz BAND QPSK	1/0	819	0.2743777	0.435366
	3.0 MHz BAND QPSK	15/0	819	2.6845	2.971
	3.0 MHz BAND 16QAM	1/0	819	0.3019111	0.395962
	3.0 MHz BAND 16QAM	15/0	819	2.6823	2.981
	5.0 MHz BAND QPSK	1/0	819	0.2962403	0.349957
	5.0 MHz BAND QPSK	25/0	819	4.483	5.168
	5.0 MHz BAND 16QAM	1/0	819	0.3106525	0.421564
	5.0 MHz BAND 16QAM	25/0	819	4.4712	5.130
	10.0 MHz BAND QPSK	1/0	819	0.2925326	0.399442
	10.0 MHz BAND QPSK	50/0	819	8.9571	10.224
	10.0 MHz BAND 16QAM	1/0	819	0.2953151	0.443294
	10.0 MHz BAND 16QAM	50/0	819	8.9814	10.228

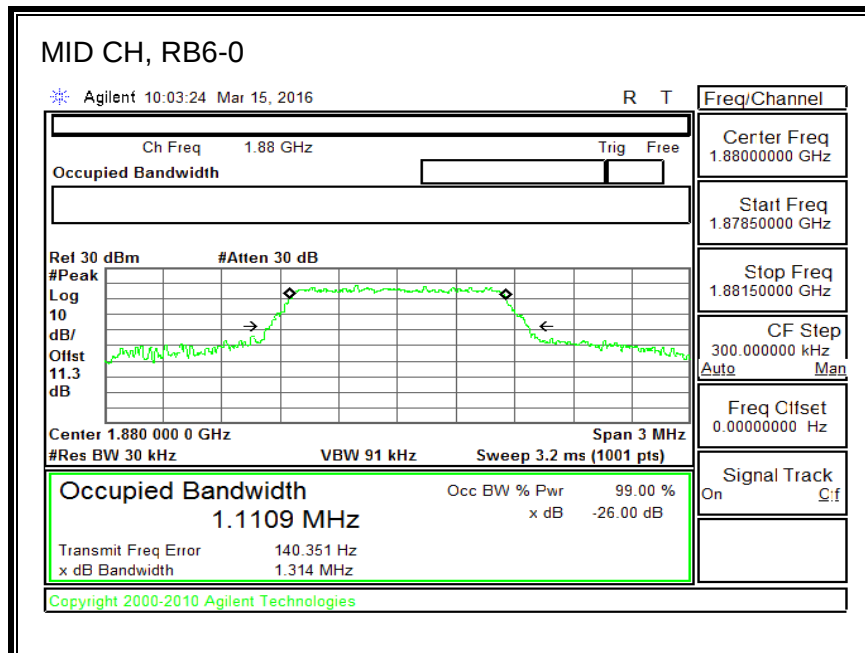
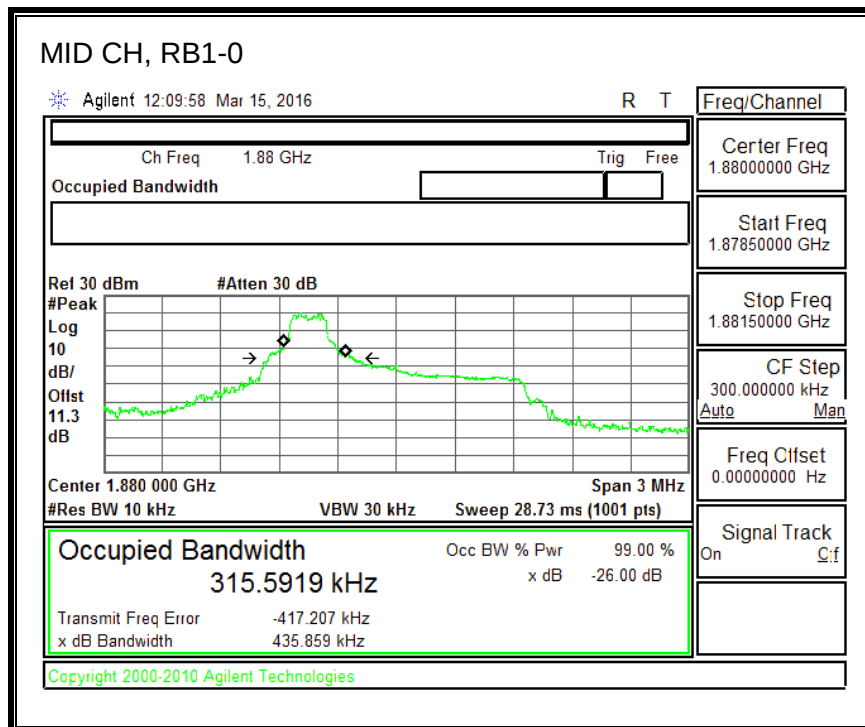
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 27	1.4 MHz BAND QPSK	1/0	819	0.2826172	0.353911
	1.4 MHz BAND QPSK	6/0	819	1.1057	1.312
	1.4 MHz BAND 16QAM	1/0	819	0.2772432	0.362124
	1.4 MHz BAND 16QAM	6/0	819	1.10000	1.308
	3.0 MHz BAND QPSK	1/0	819	0.2753700	0.392341
	3.0 MHz BAND QPSK	15/0	819	2.679	2.984
	3.0 MHz BAND 16QAM	1/0	819	0.3126066	0.462406
	3.0 MHz BAND 16QAM	15/0	819	2.6951	2.993
	5.0 MHz BAND QPSK	1/0	819	0.2809124	0.454837
	5.0 MHz BAND QPSK	25/0	819	4.4722	5.225
	5.0 MHz BAND 16QAM	1/0	819	0.2815989	0.475014
	5.0 MHz BAND 16QAM	25/0	819	4.4826	5.163
	10.0 MHz BAND QPSK	1/0	819	0.2852904	0.479931
	10.0 MHz BAND QPSK	50/0	819	8.9765	10.38
	10.0 MHz BAND 16QAM	1/0	819	0.3101186	0.46956
	10.0 MHz BAND 16QAM	50/0	819	8.9494	10.312

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 30	5.0 MHz BAND QPSK	1/0	2310	0.2838358	0.411215
	5.0 MHz BAND QPSK	25/0	2310	4.4754	5.149
	5.0 MHz BAND 16QAM	1/0	2310	0.3057326	0.429674
	5.0 MHz BAND 16QAM	25/0	2310	4.4758	5.160
	10.0 MHz BAND QPSK	1/0	2310	0.3009993	0.425464
	10.0 MHz BAND QPSK	50/0	2310	8.9443	10.209
	10.0 MHz BAND 16QAM	1/0	2310	0.2950491	0.430004
	10.0 MHz BAND 16QAM	50/0	2310	8.971	10.252

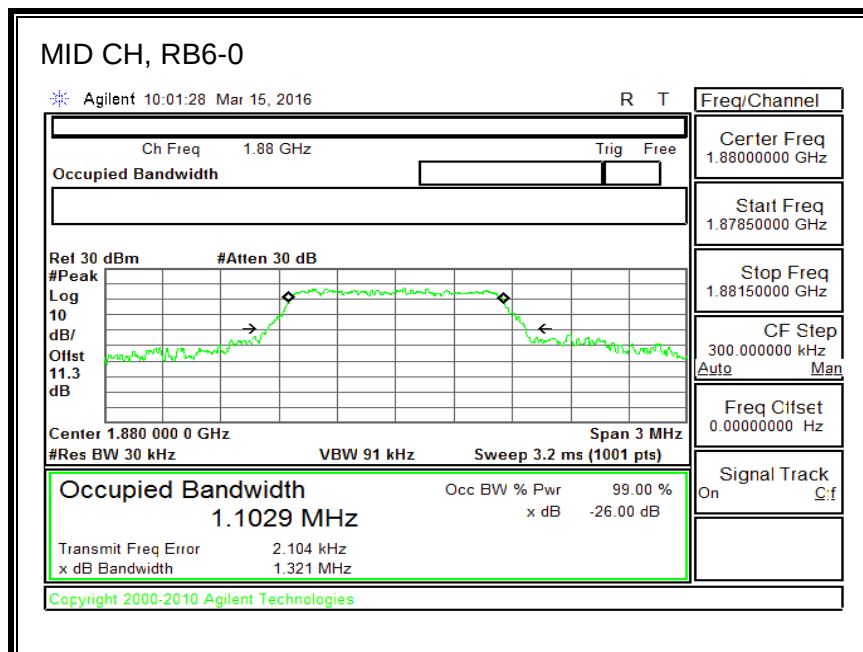
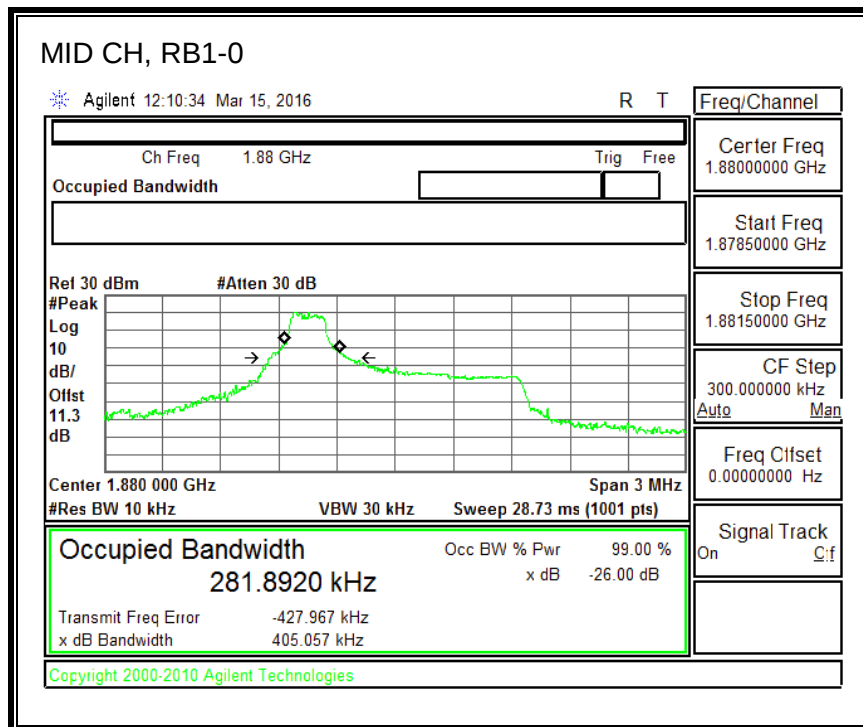
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 41	5.0 MHz BAND QPSK	1/0	2593	0.2567816	0.412042
	5.0 MHz BAND QPSK	25/0	2593	4.4568	4.98
	5.0 MHz BAND 16QAM	1/0	2593	0.2425509	0.433963
	5.0 MHz BAND 16QAM	25/0	2593	4.4575	5.061
	10.0 MHz BAND QPSK	1/0	2593	0.3178618	0.433152
	10.0 MHz BAND QPSK	50/0	2593	8.9051	10.101
	10.0 MHz BAND 16QAM	1/0	2593	0.3165405	0.464796
	10.0 MHz BAND 16QAM	50/0	2593	8.9326	10.306
	15.0 MHz BAND QPSK	1/0	2593	0.2776571	0.386753
	15.0 MHz BAND QPSK	75/0	2593	13.3832	14.895
	15.0 MHz BAND 16QAM	1/0	2593	0.3041132	0.484009
	15.0 MHz BAND 16QAM	75/0	2593	13.4056	14.845
	20.0 MHz BAND QPSK	1/0	2593	0.2875676	0.443032
	20.0 MHz BAND QPSK	100/0	2593	17.8462	19.257
	20.0 MHz BAND 16QAM	1/0	2593	0.2966204	0.431482
	20.0 MHz BAND 16QAM	100/0	2593	17.894	18.745

8.1.1. LTE BAND 2

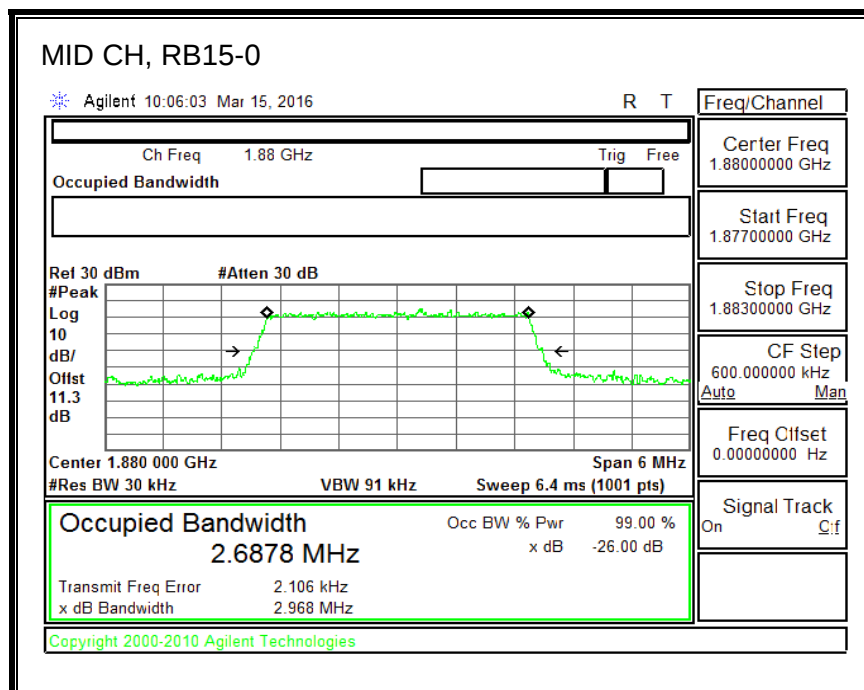
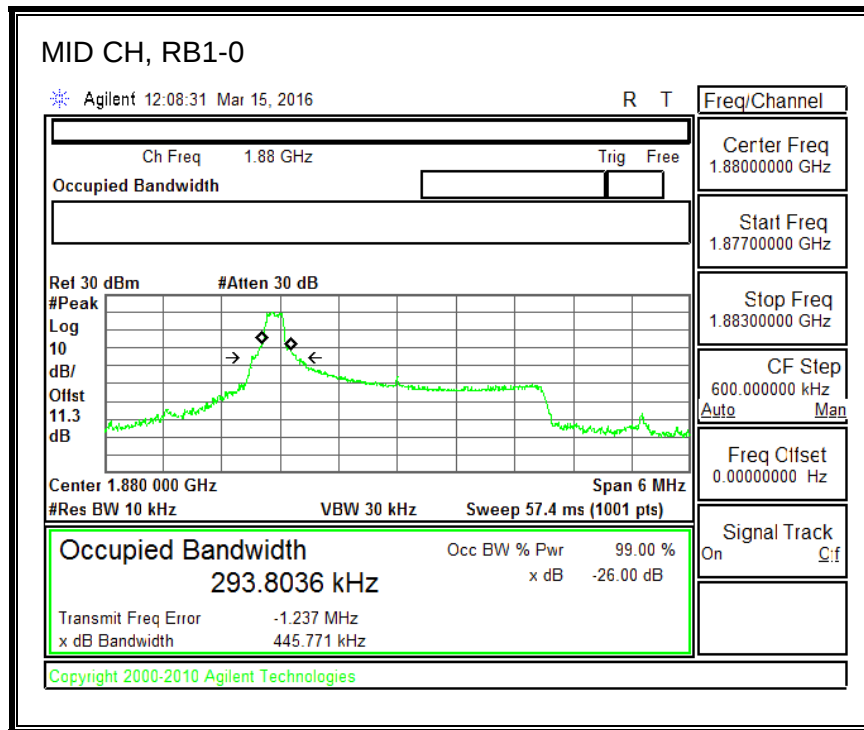
QPSK, (1.4 MHz BAND WIDTH)



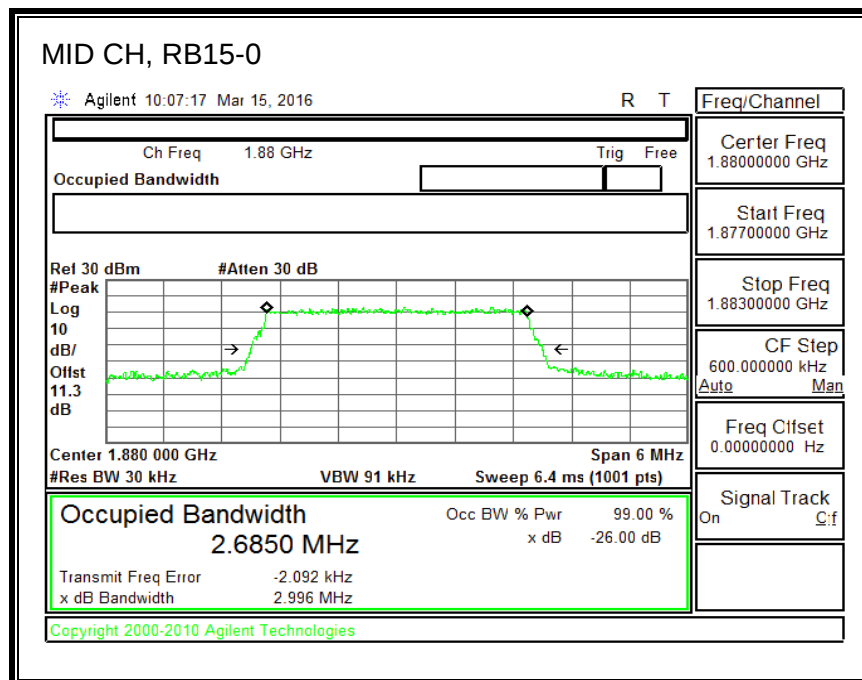
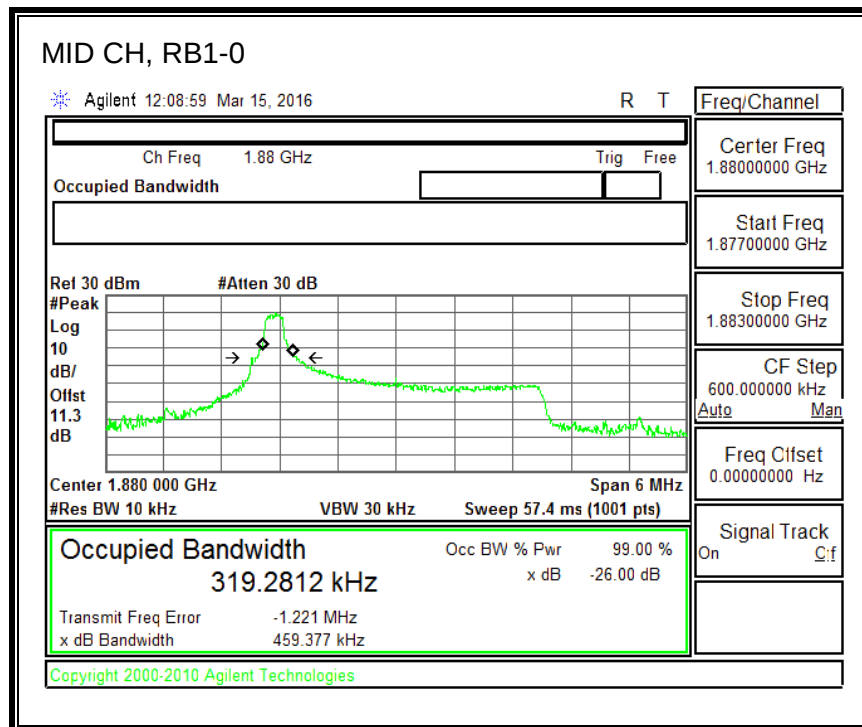
16QAM, (1.4 MHz BAND WIDTH)



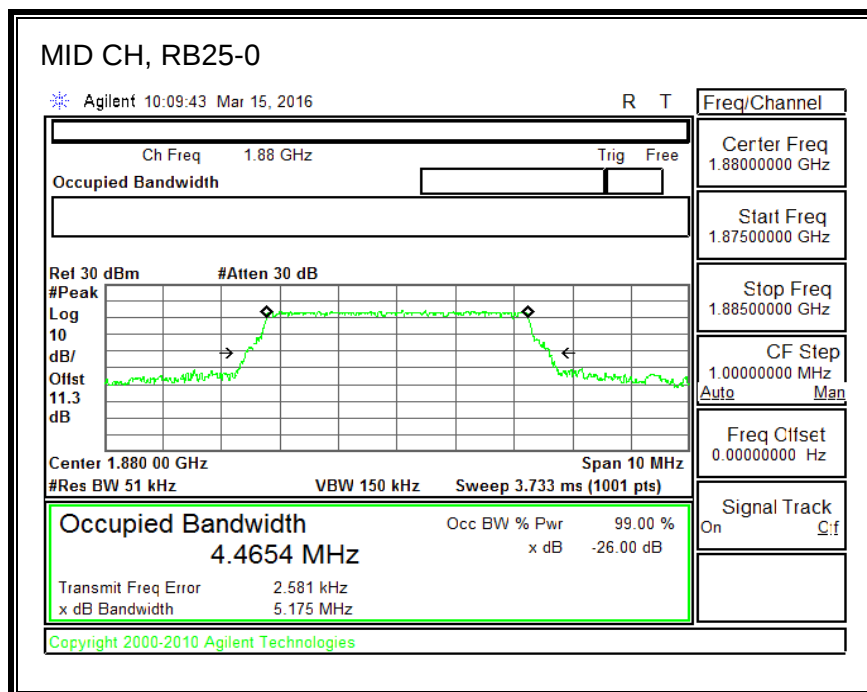
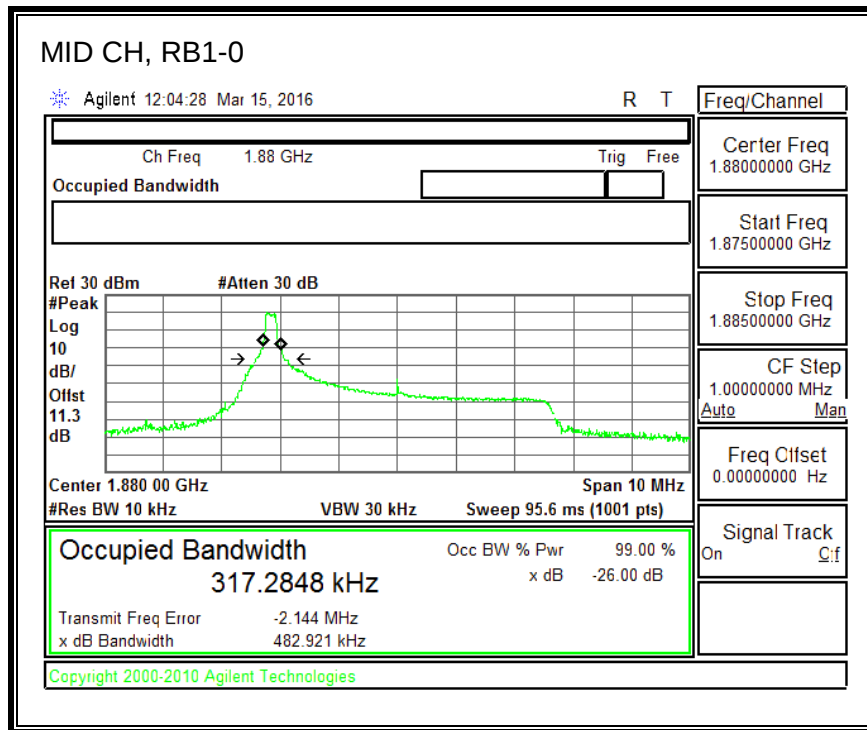
QPSK, (3.0 MHz BAND WIDTH)



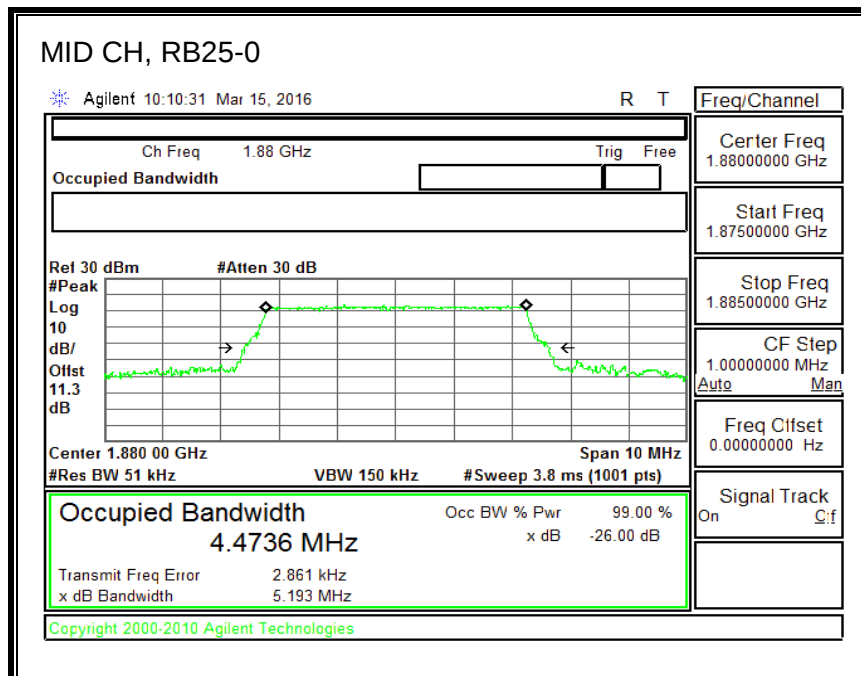
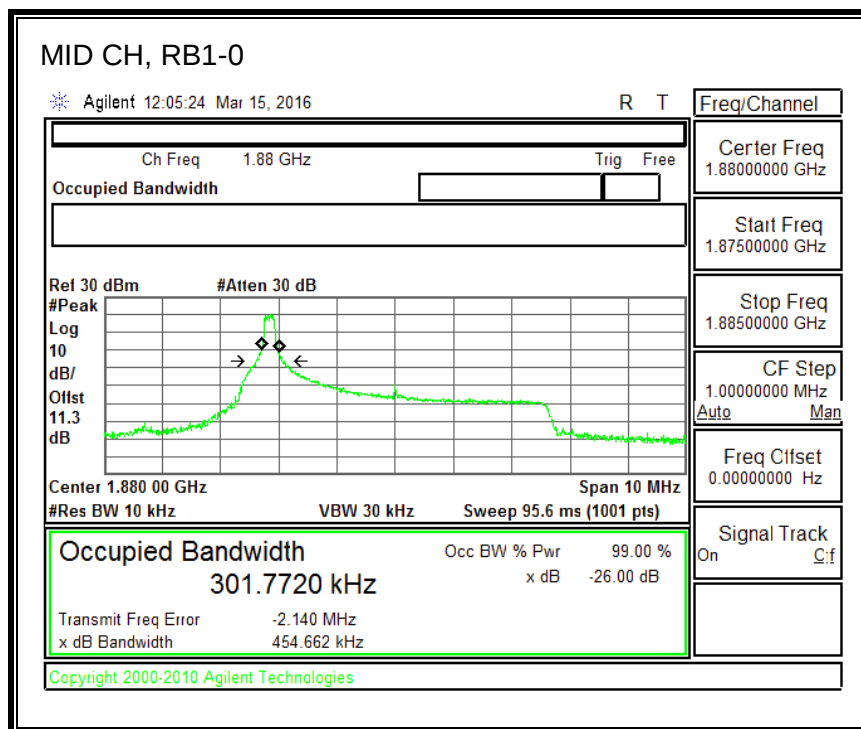
16QAM, (3.0 MHz BAND WIDTH)



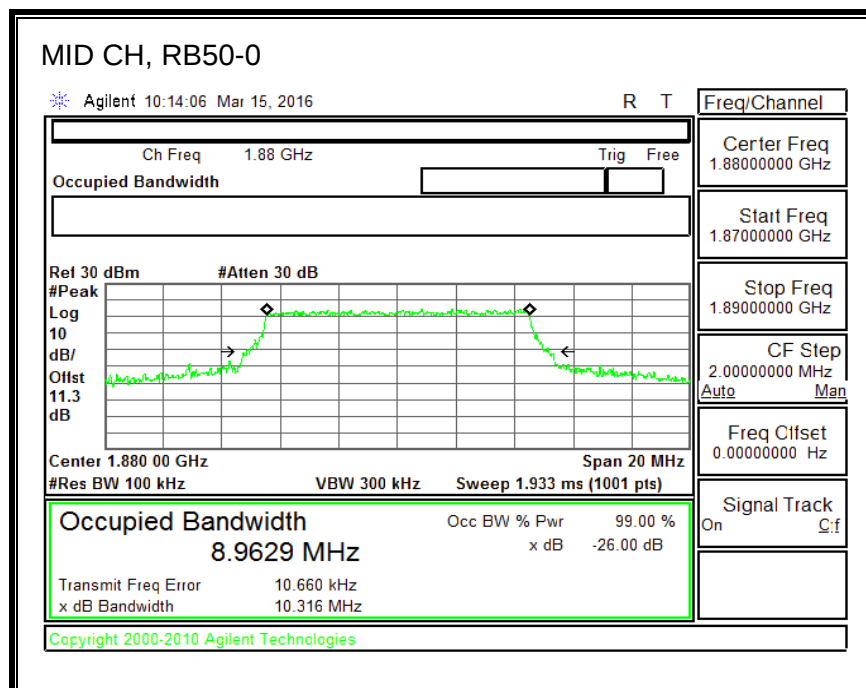
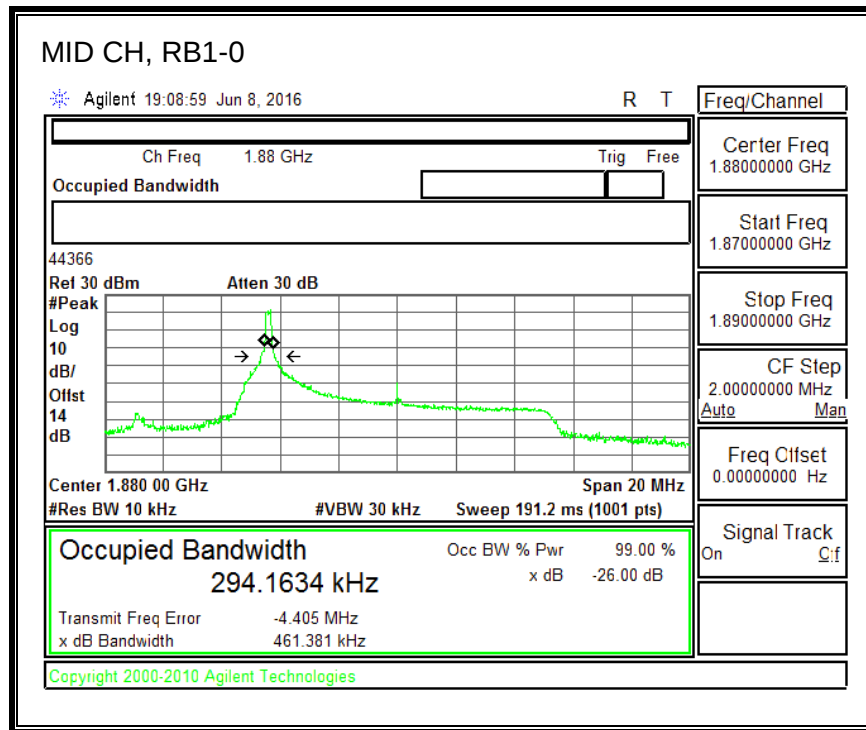
QPSK, (5.0 MHz BAND WIDTH)



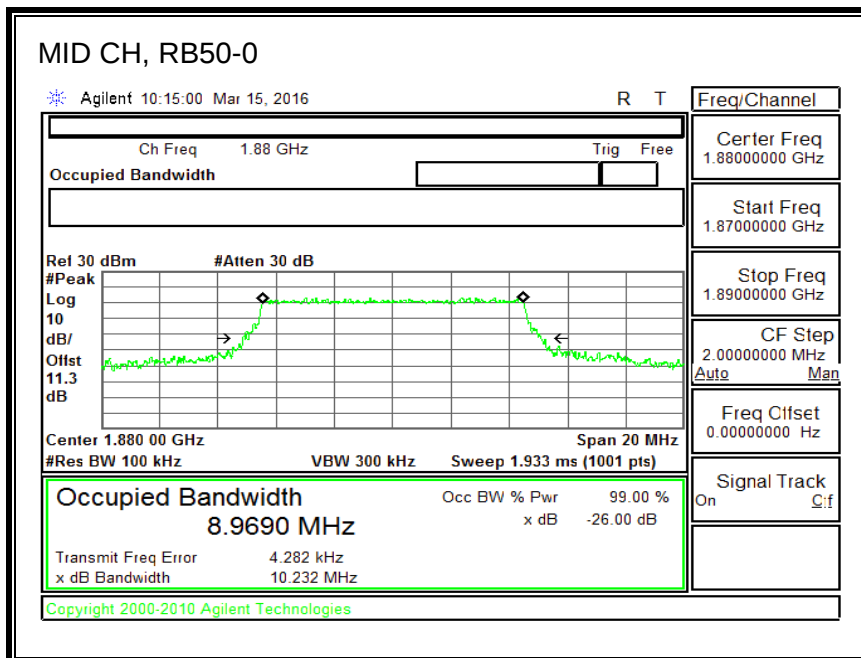
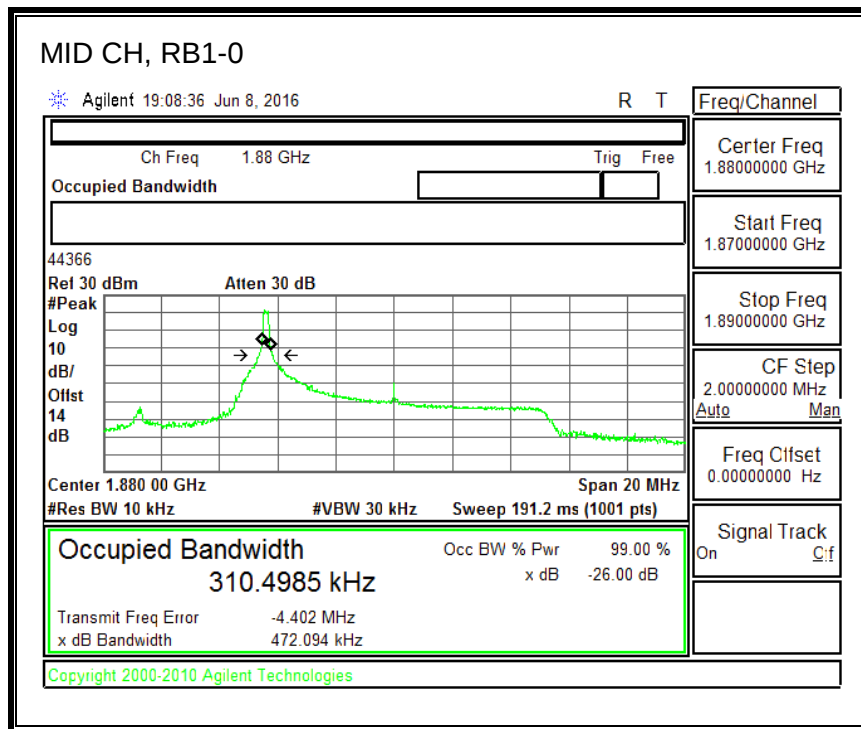
16QAM, (5.0 MHz BAND WIDTH)



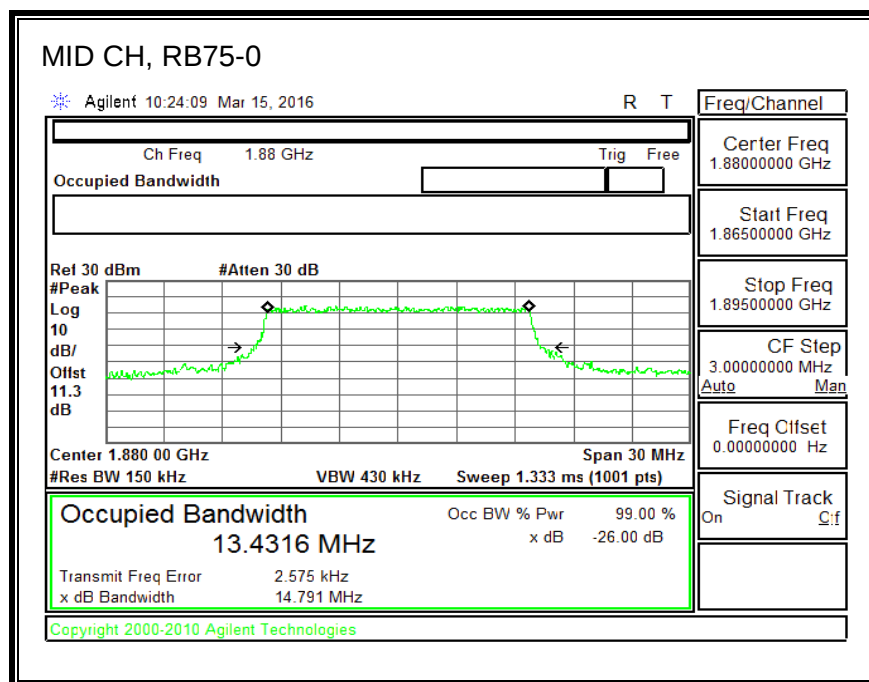
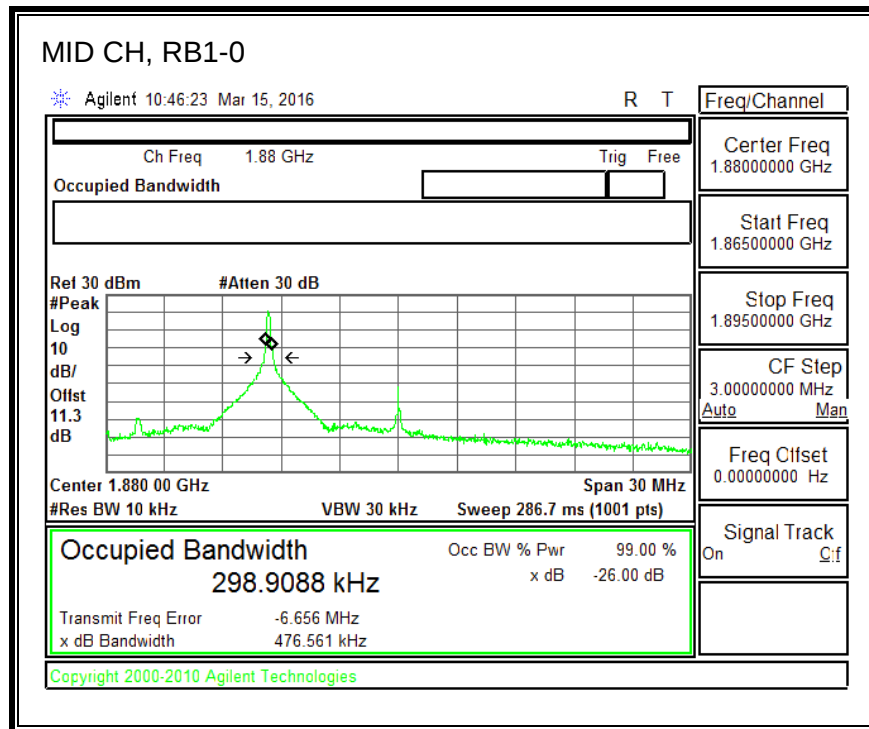
QPSK, (10.0 MHz BAND WIDTH)



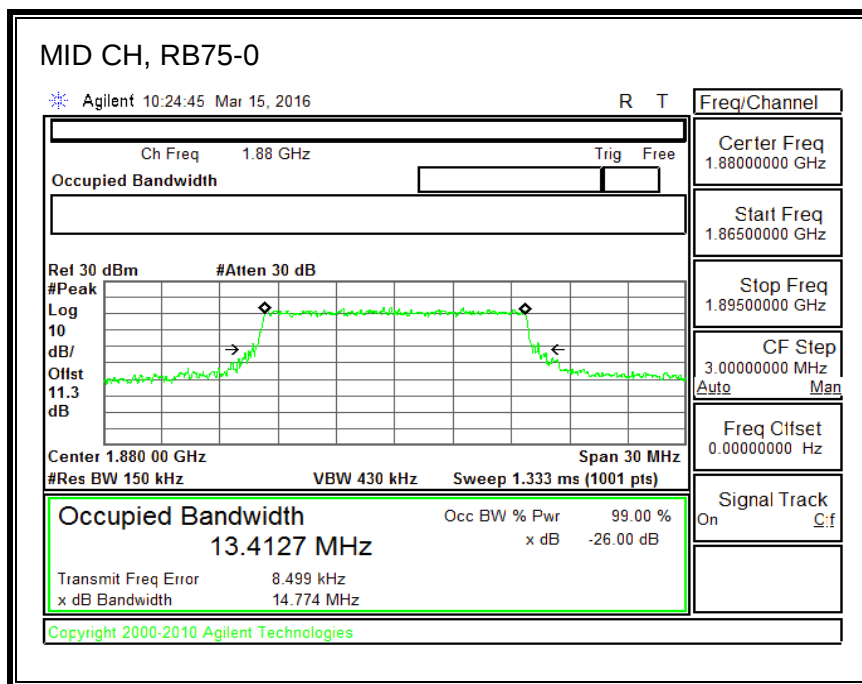
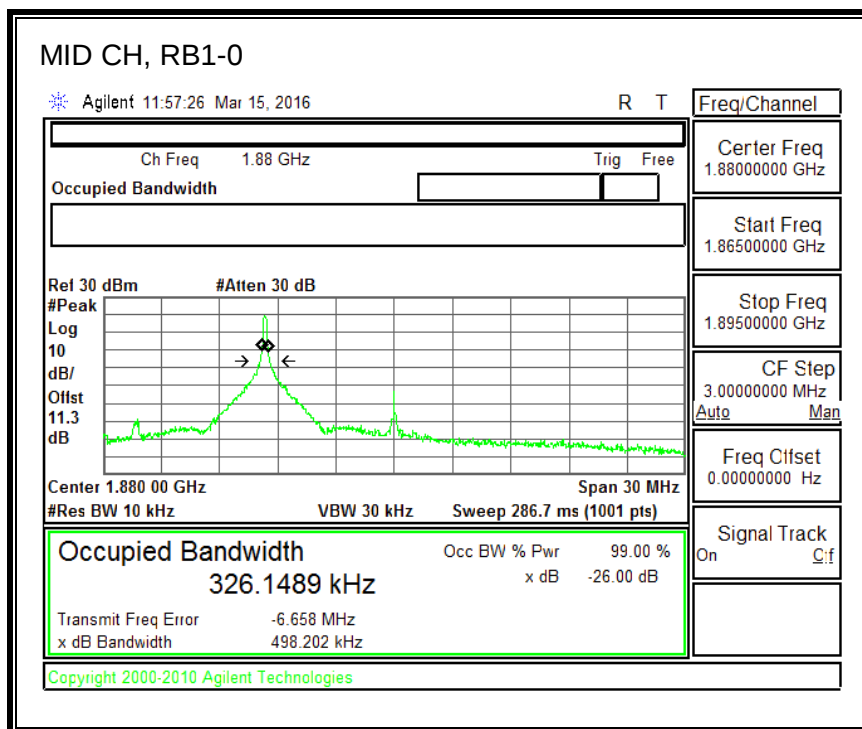
16QAM, (10.0 MHz BAND WIDTH)



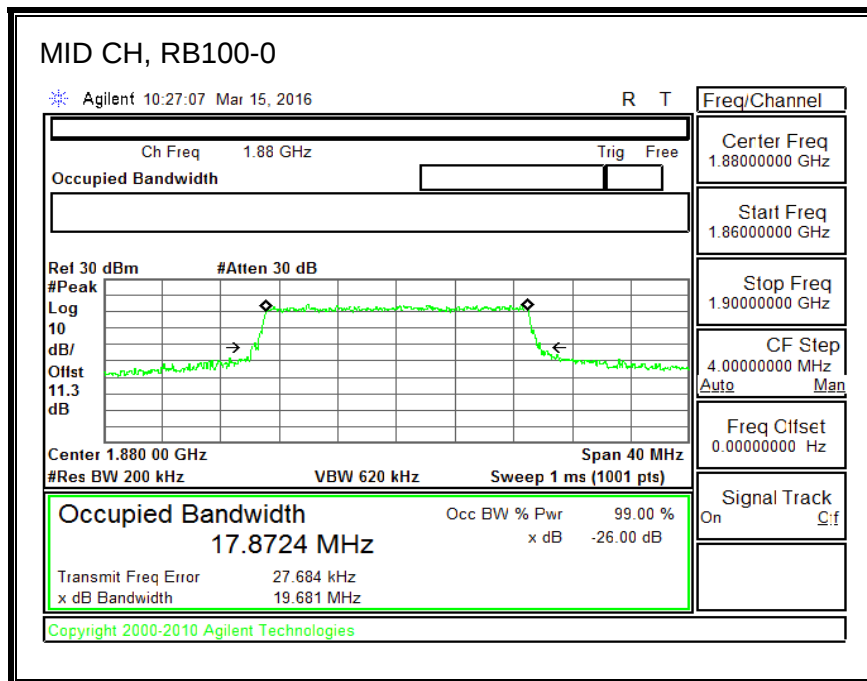
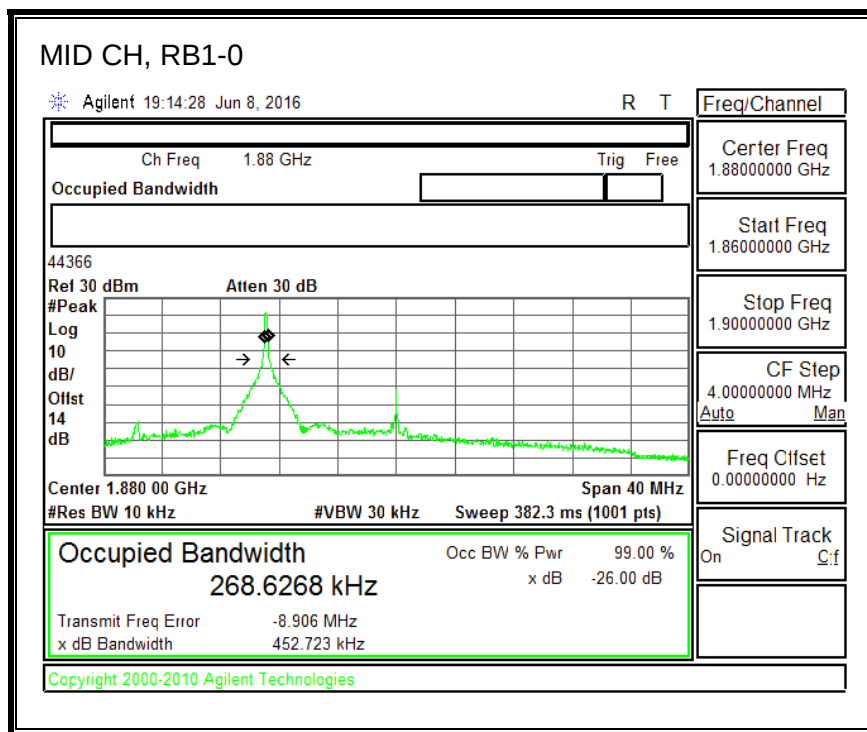
QPSK, (15.0 MHz BAND WIDTH)



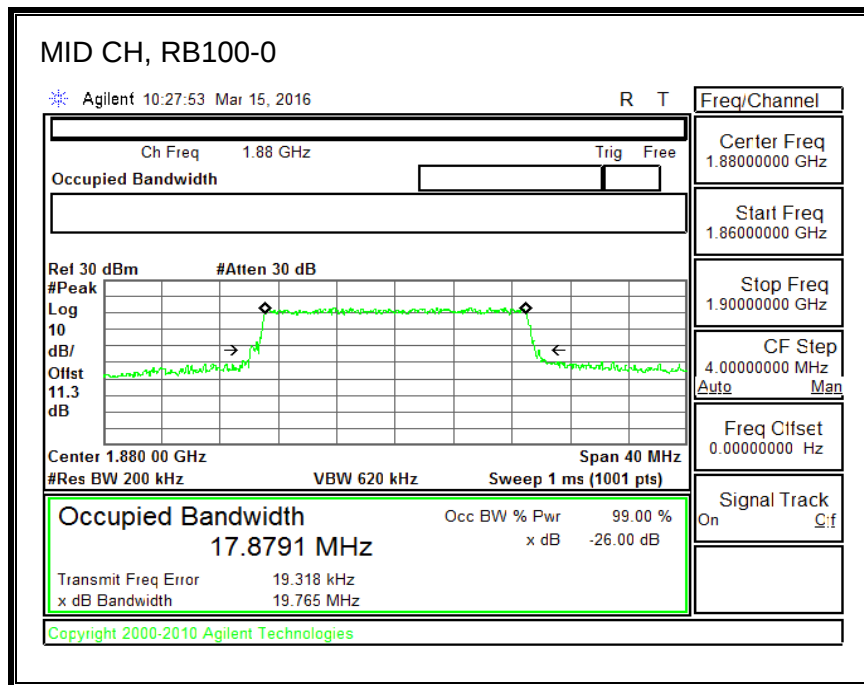
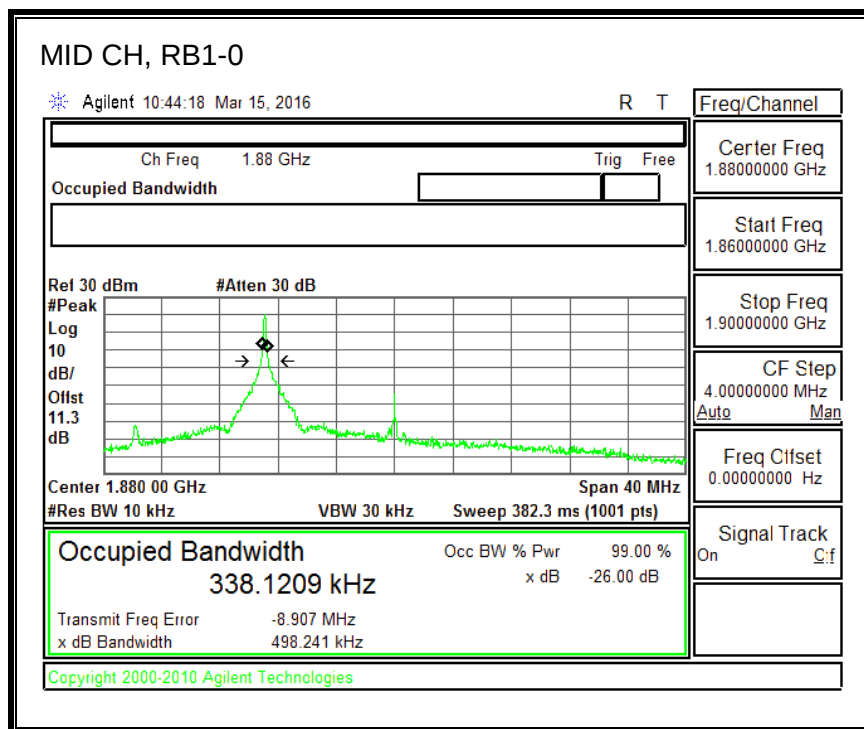
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

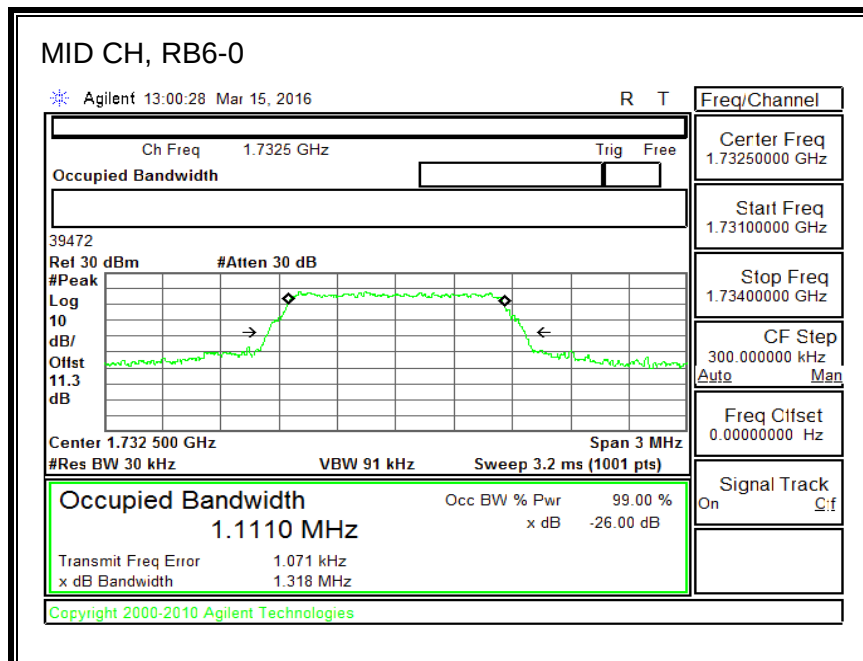
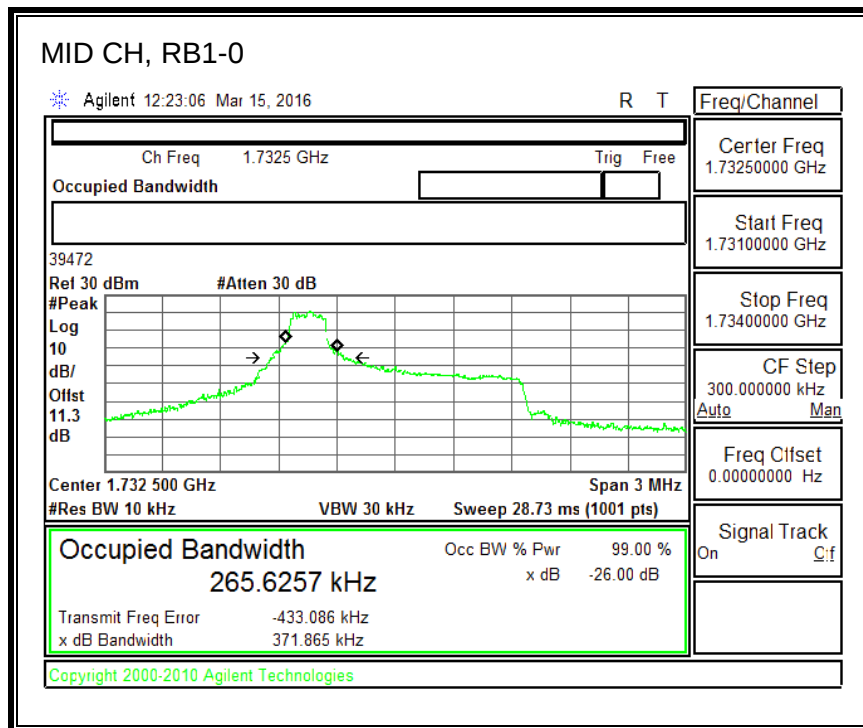


16QAM, (20.0 MHz BAND WIDTH)

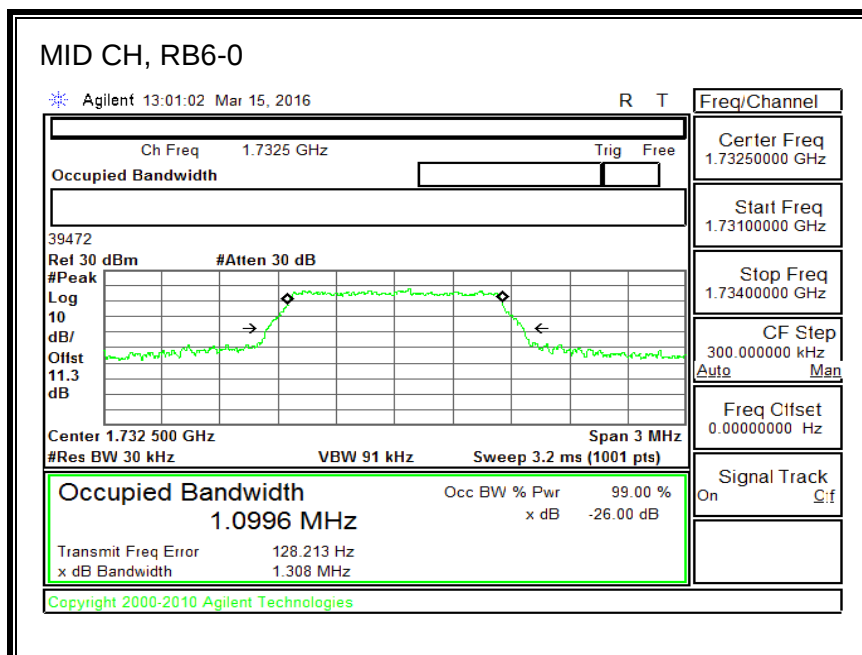
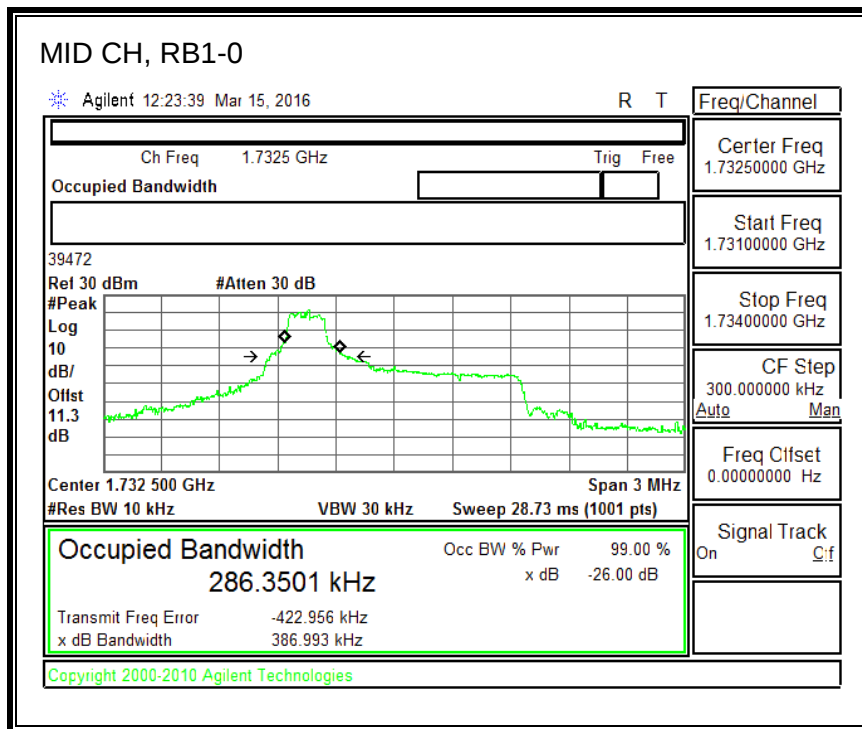


8.1.2. LTE BAND 4

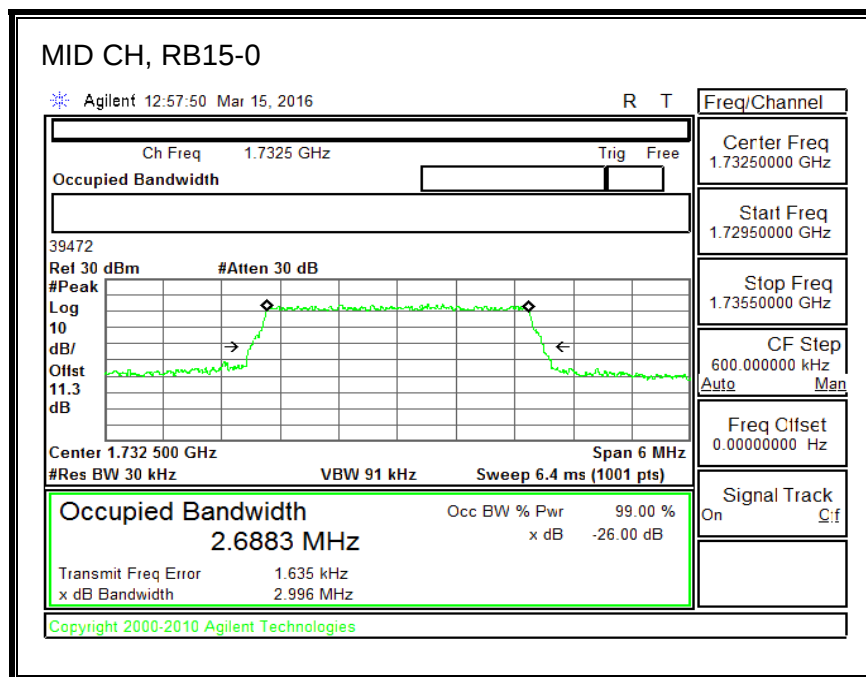
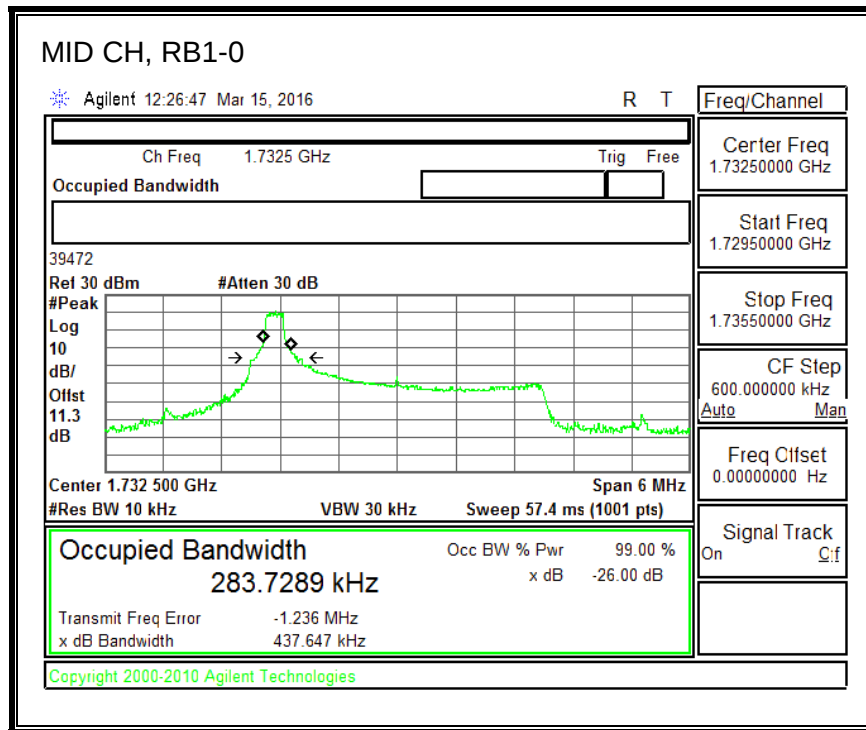
QPSK, (1.4 MHz BAND WIDTH)



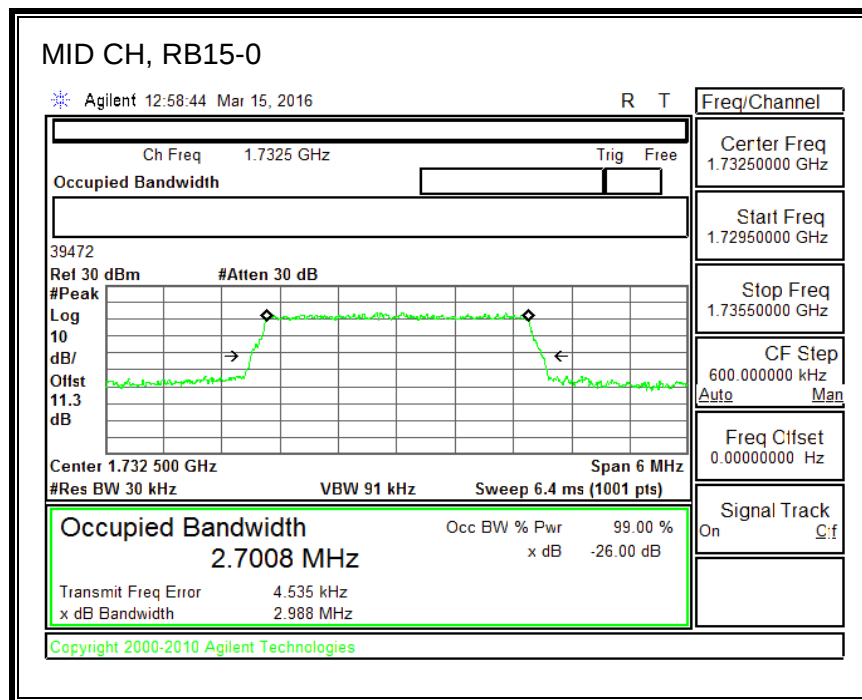
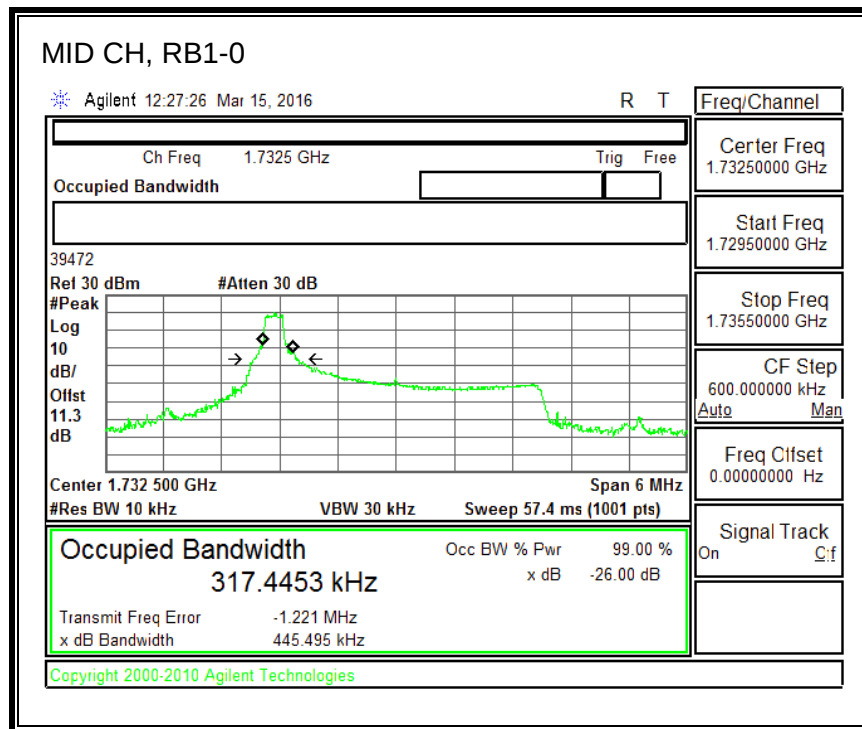
16QAM, (1.4 MHz BAND WIDTH)



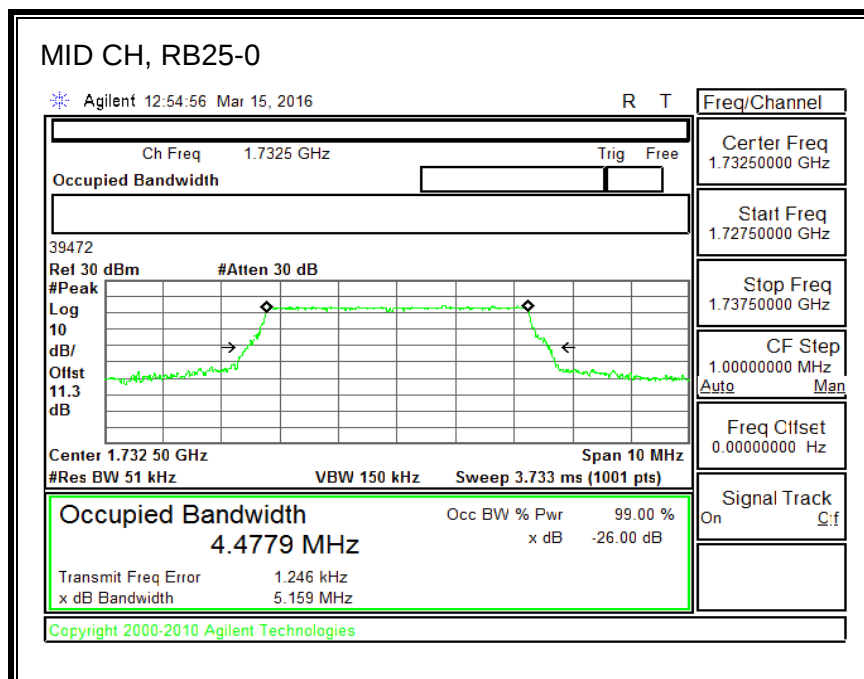
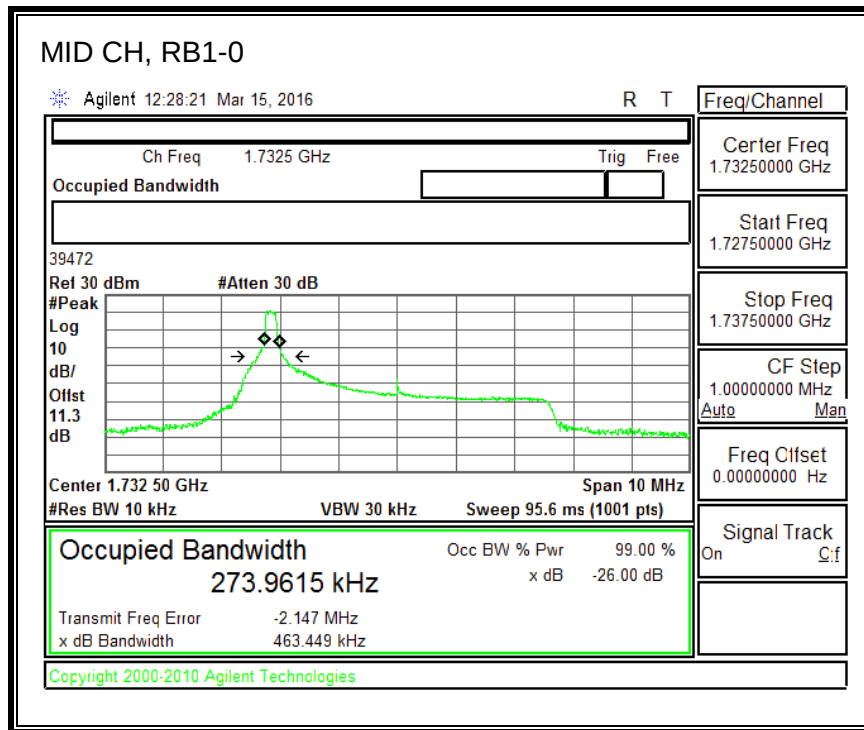
QPSK, (3.0 MHz BAND WIDTH)



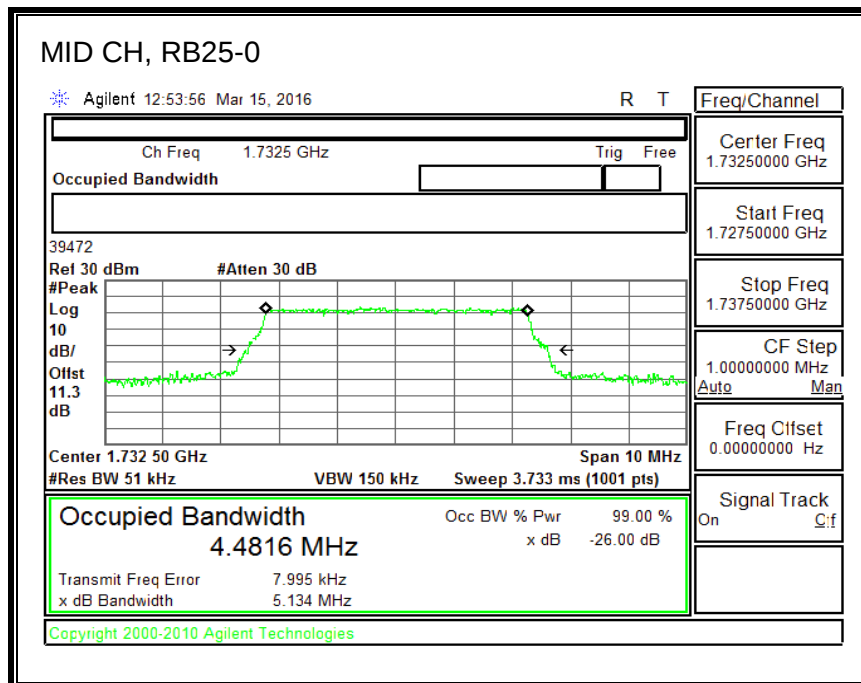
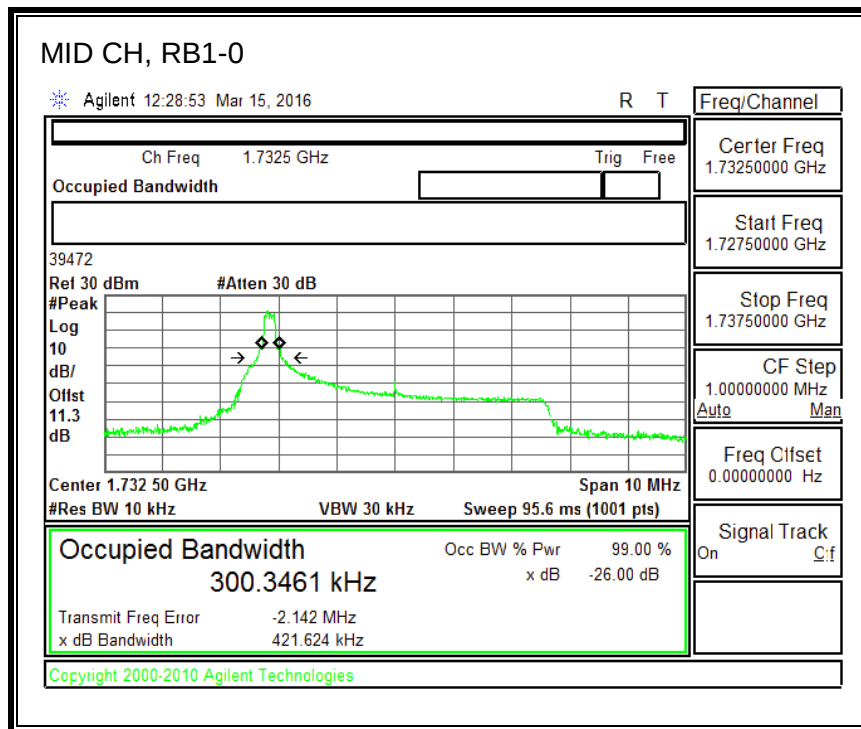
16QAM, (3.0 MHz BAND WIDTH)



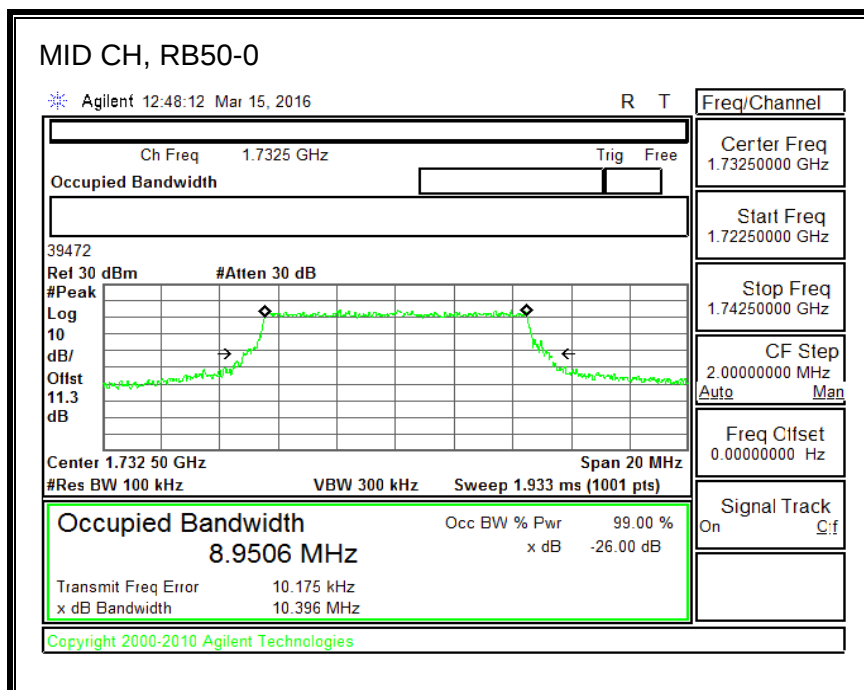
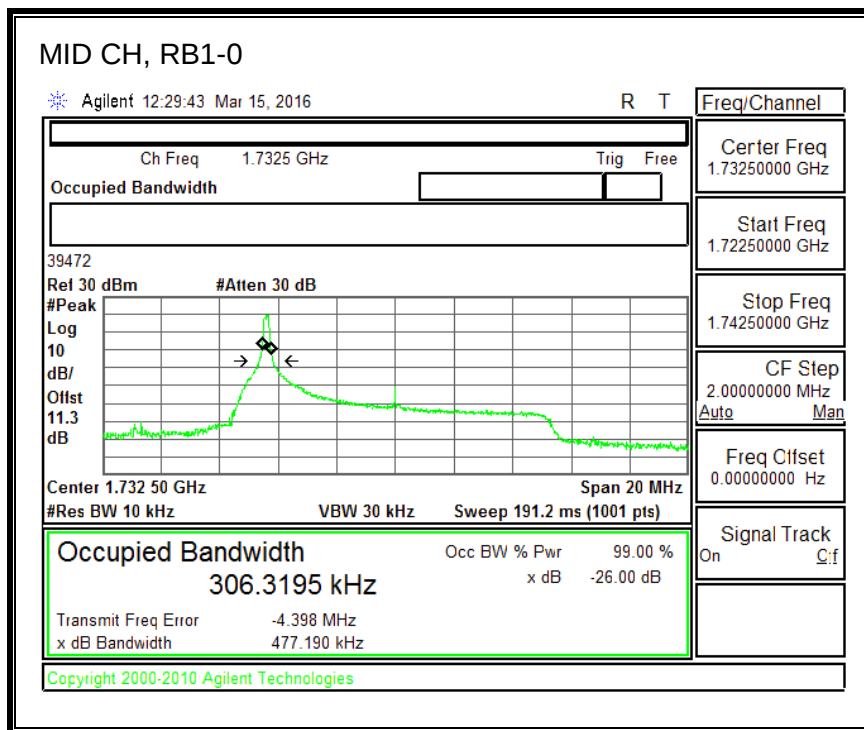
QPSK, (5.0 MHz BAND WIDTH)



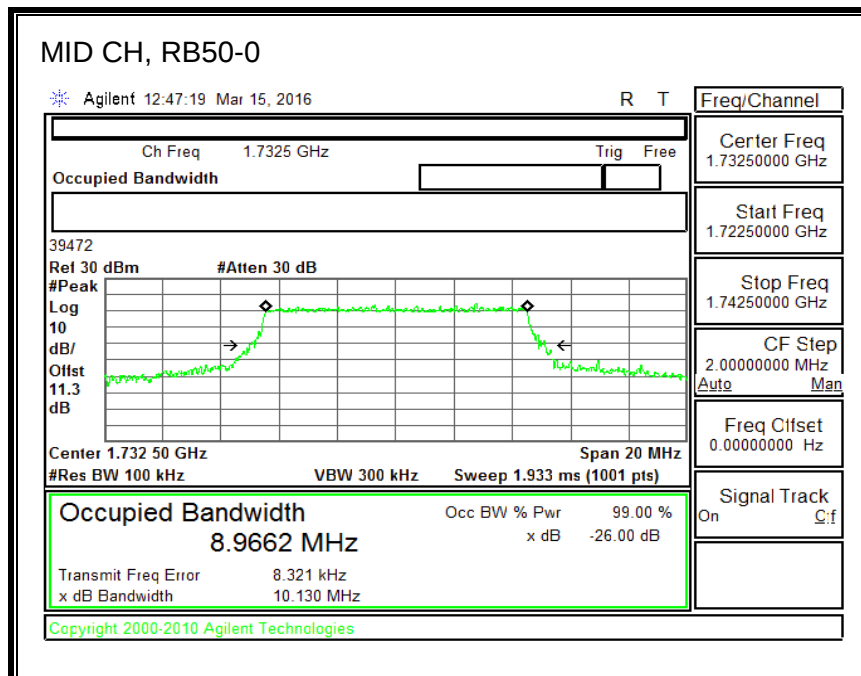
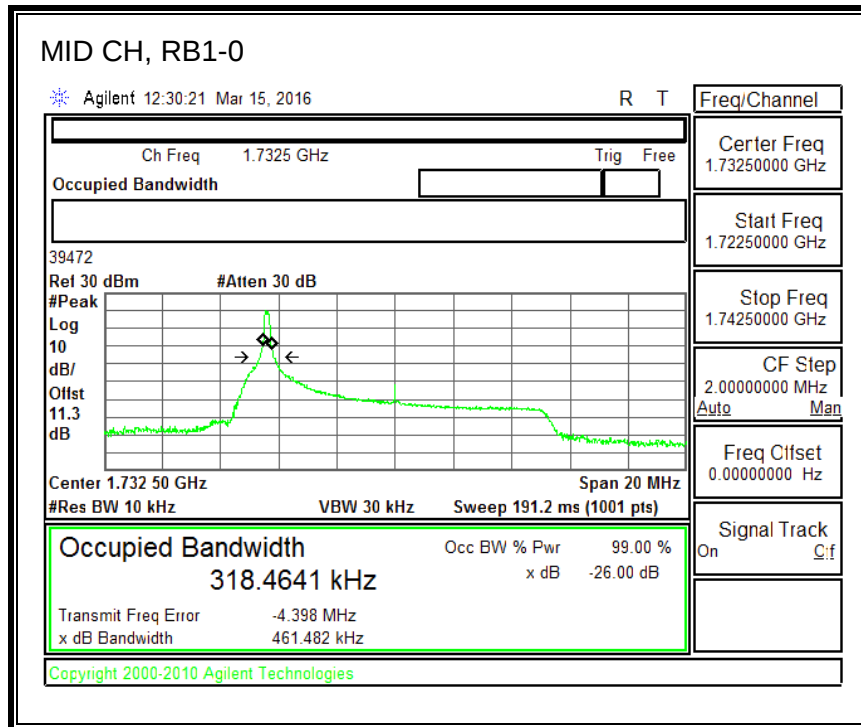
16QAM, (5.0 MHz BAND WIDTH)



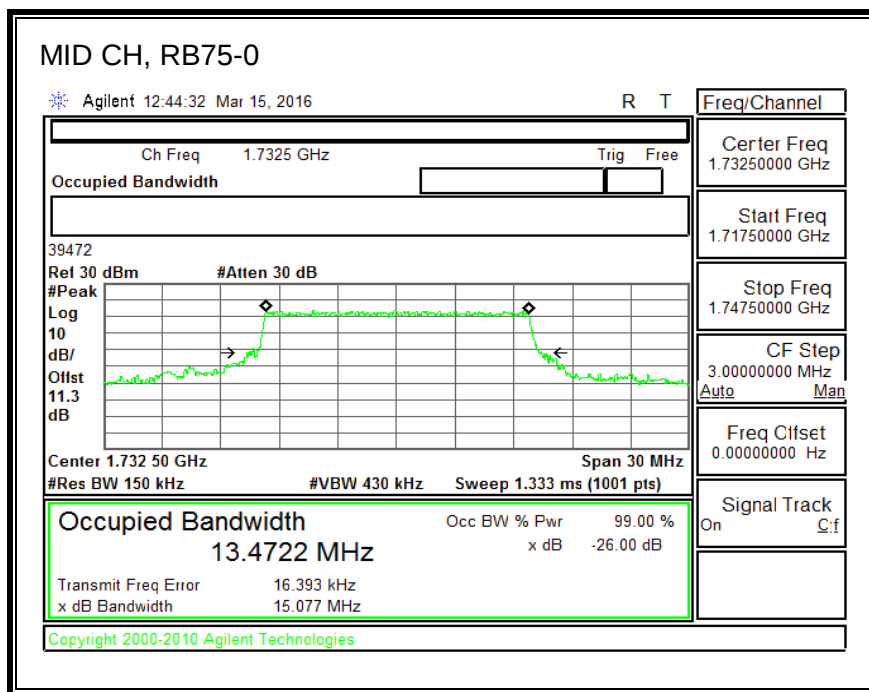
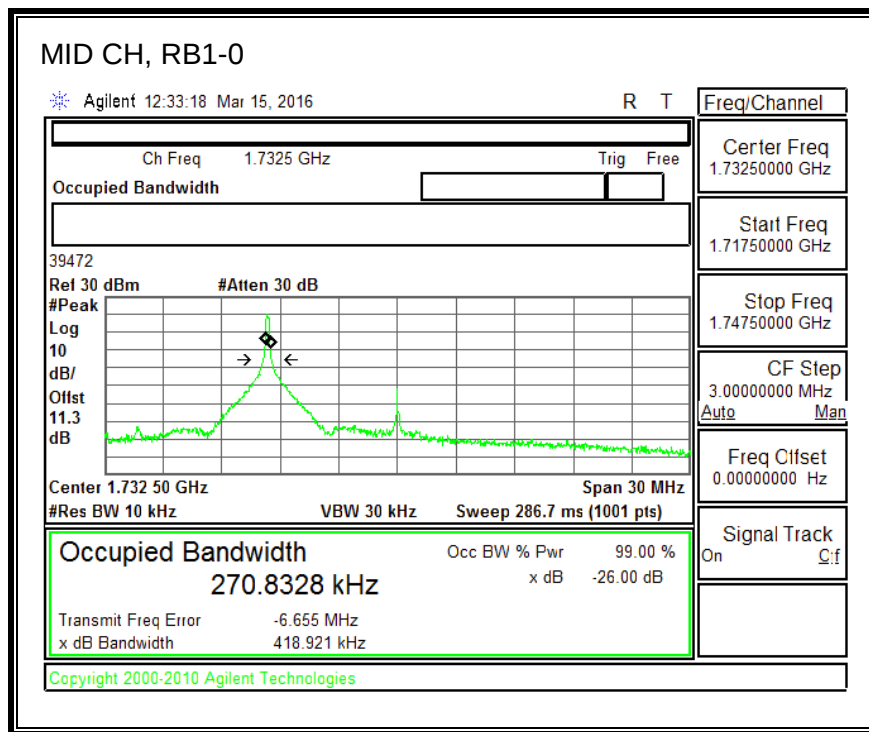
QPSK, (10.0 MHz BAND WIDTH)



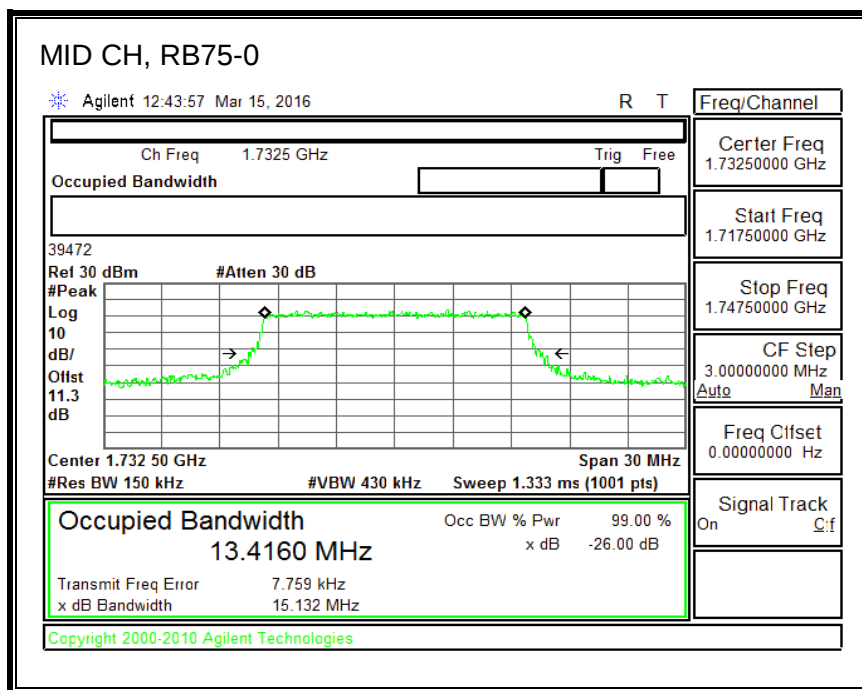
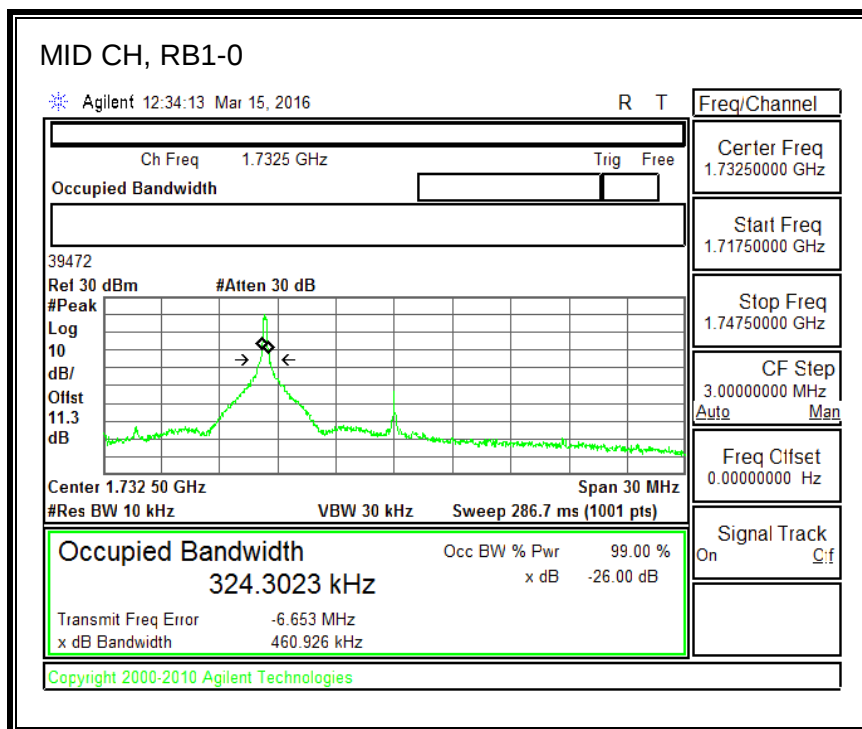
16QAM, (10.0 MHz BAND WIDTH)



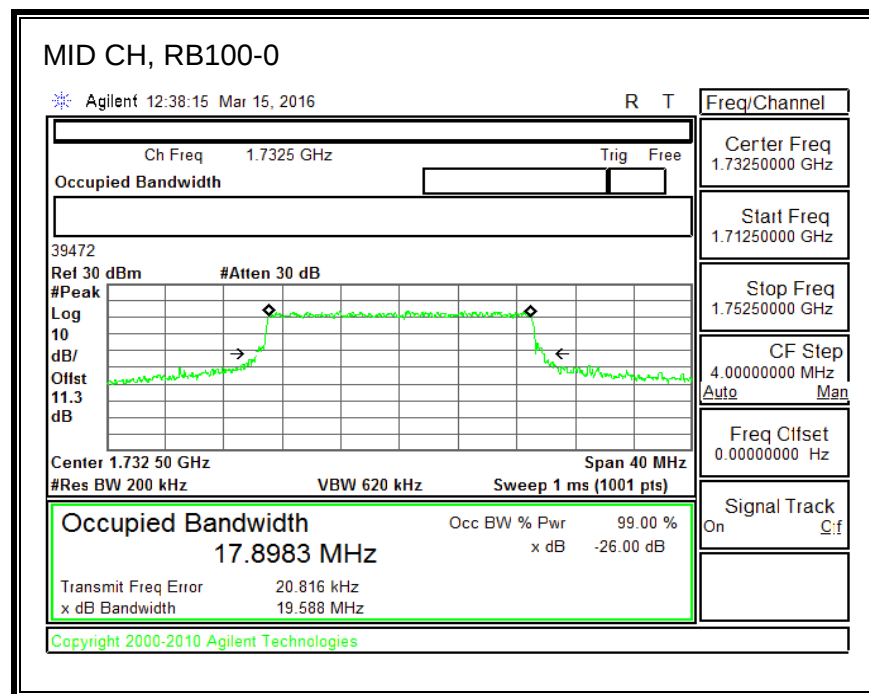
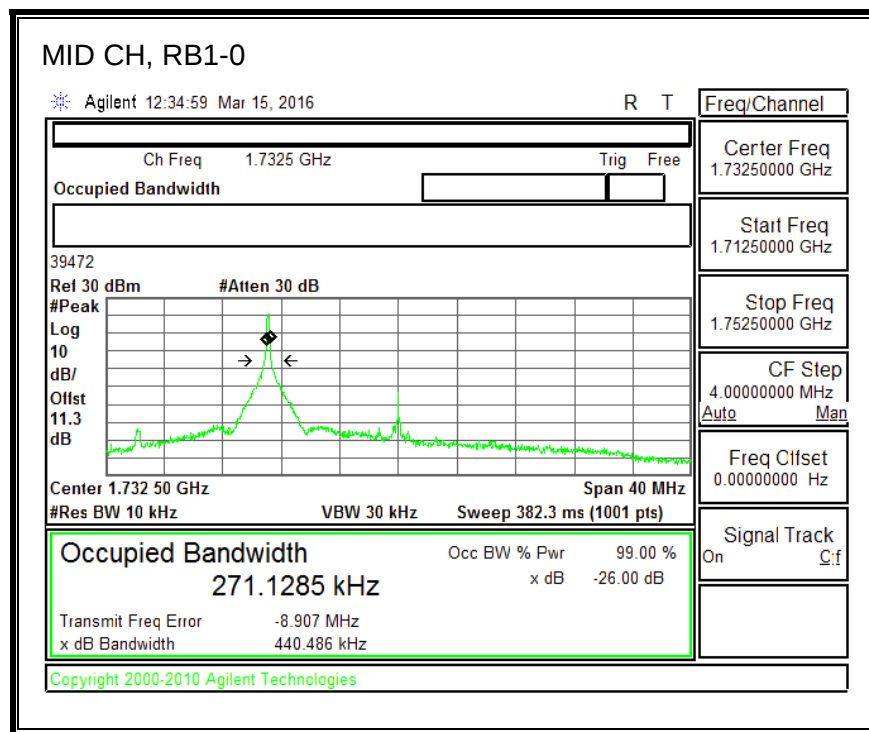
QPSK, (15.0 MHz BAND WIDTH)



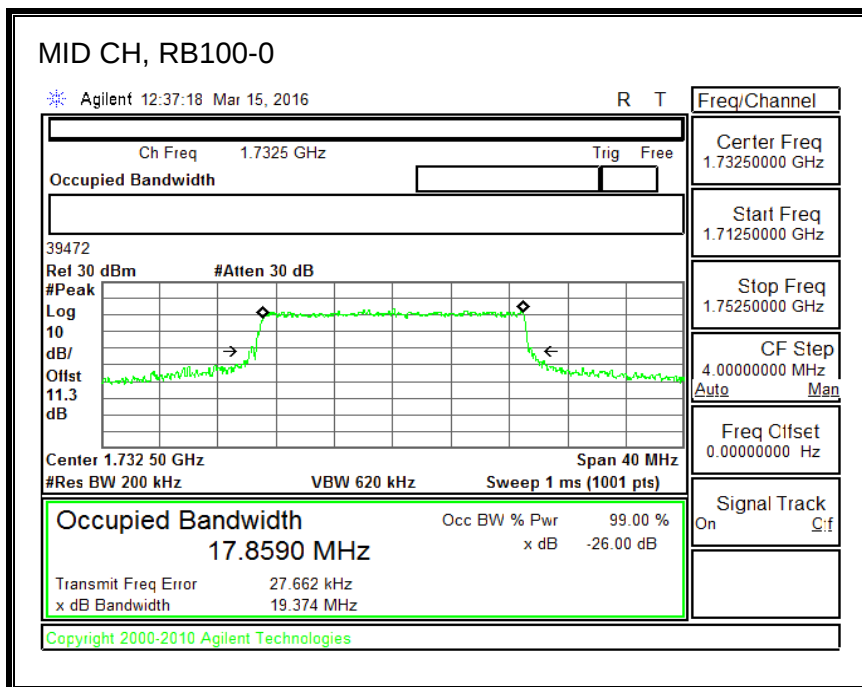
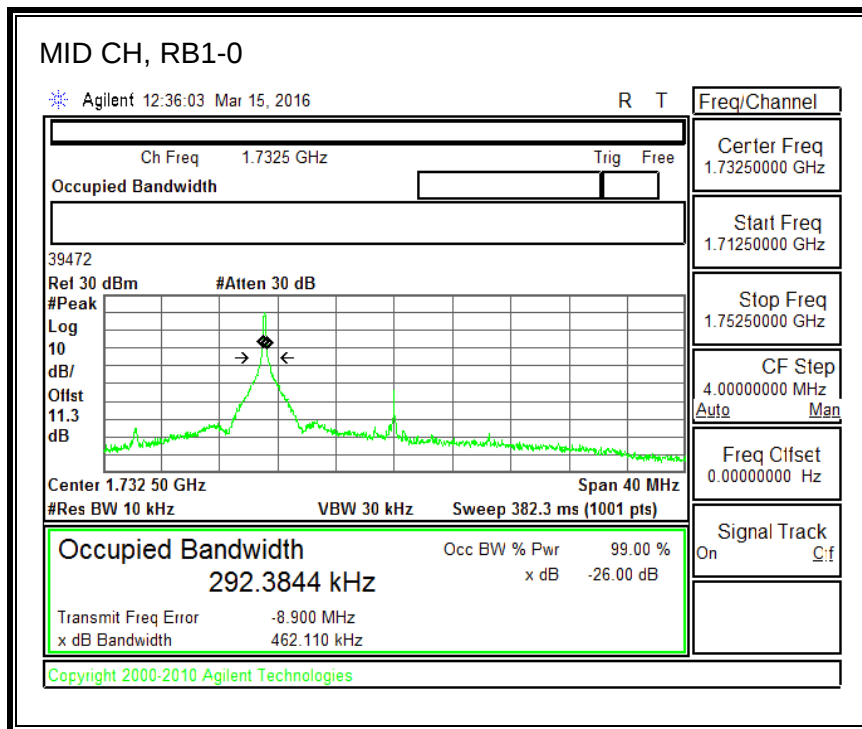
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

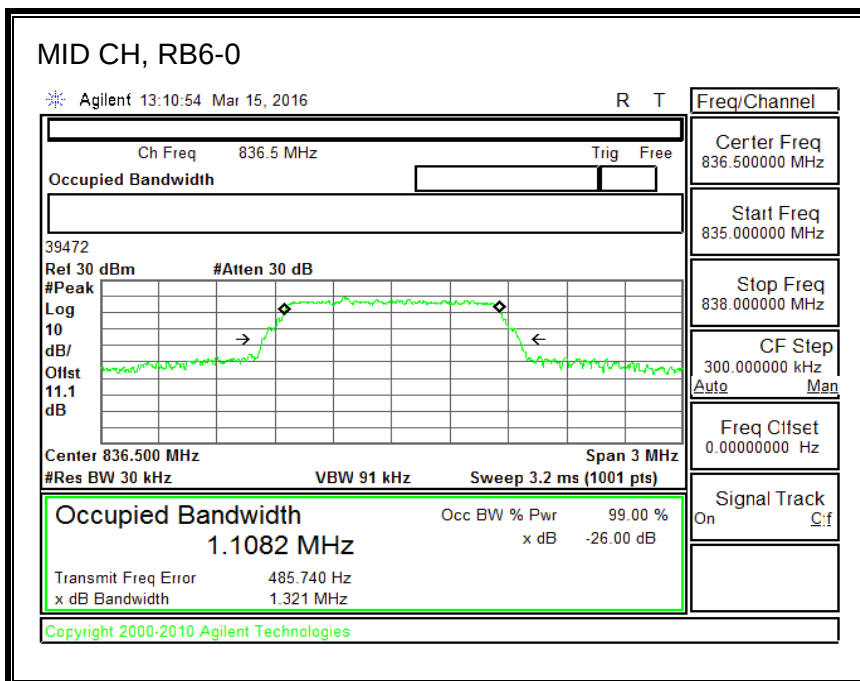
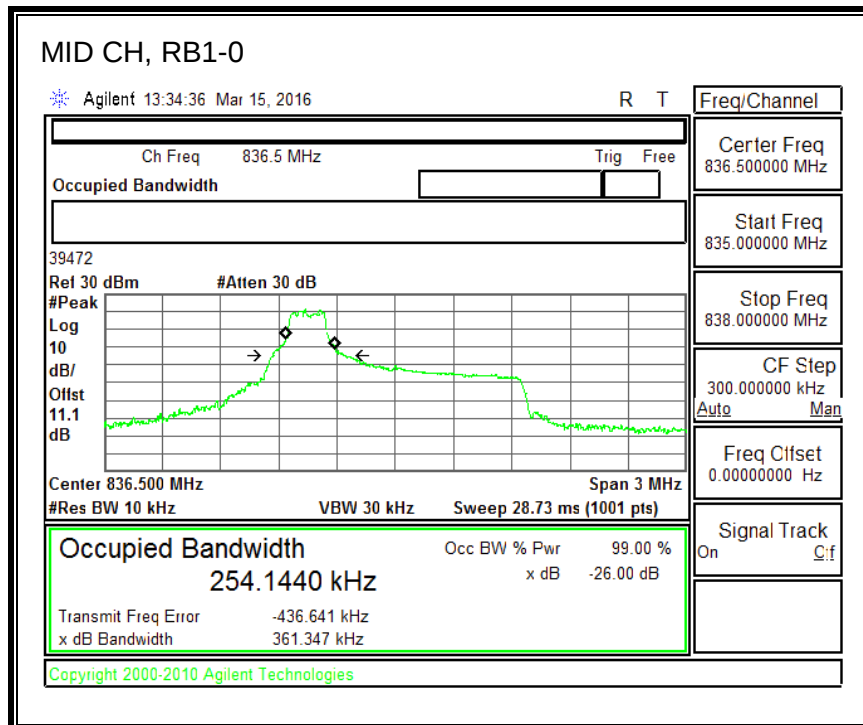


16QAM, (20.0 MHz BAND WIDTH)

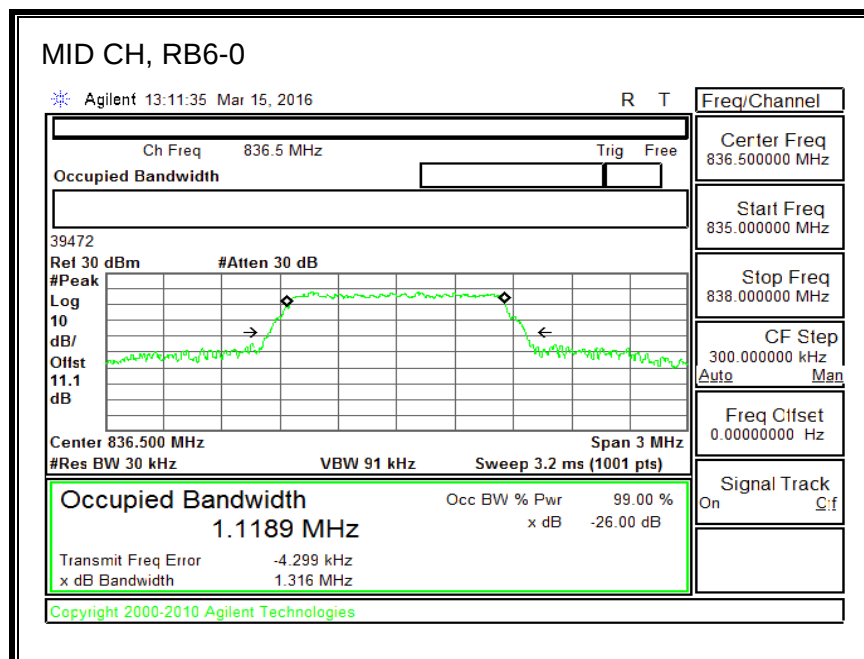
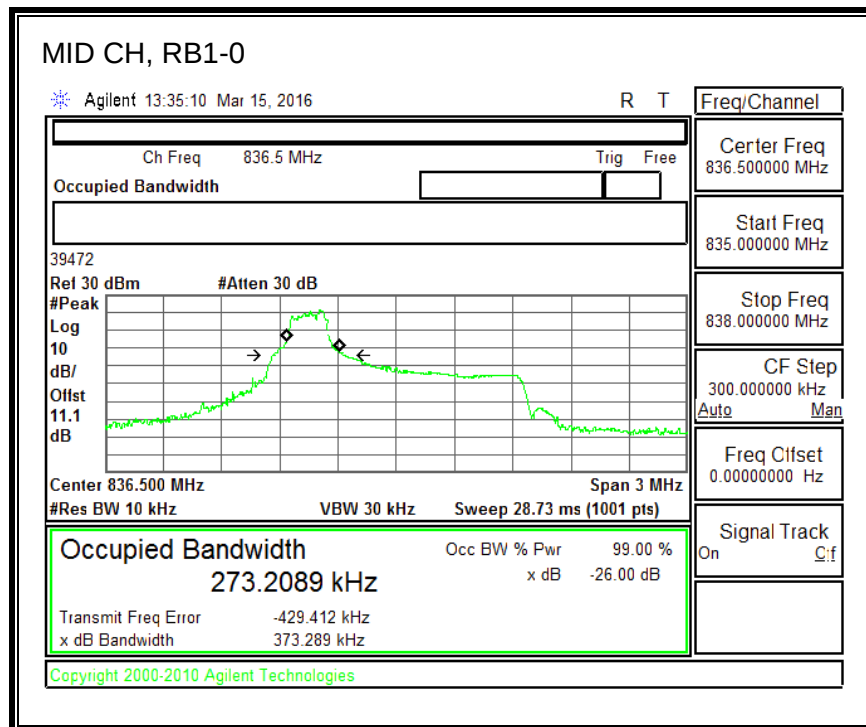


8.1.3. LTE BAND 5

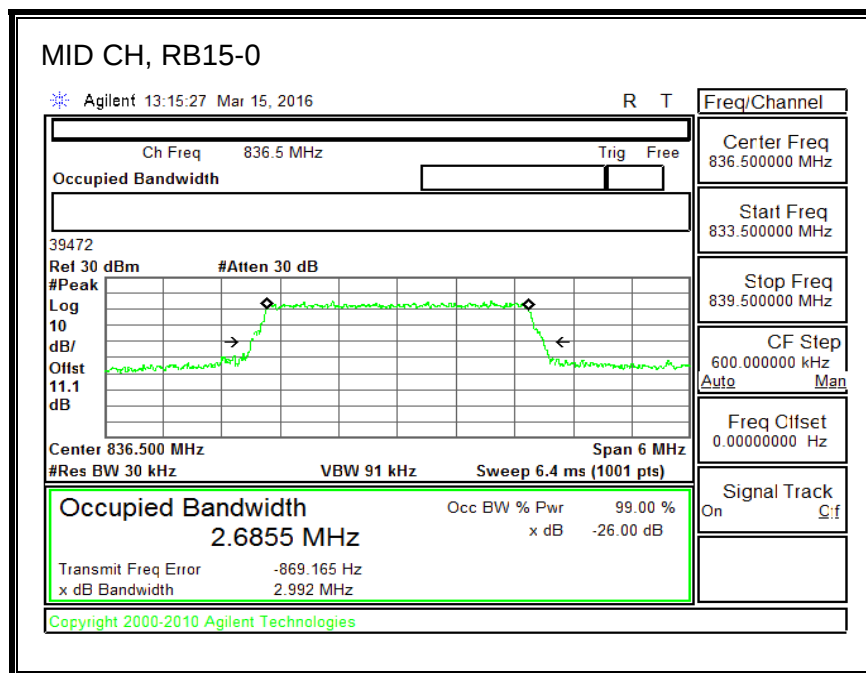
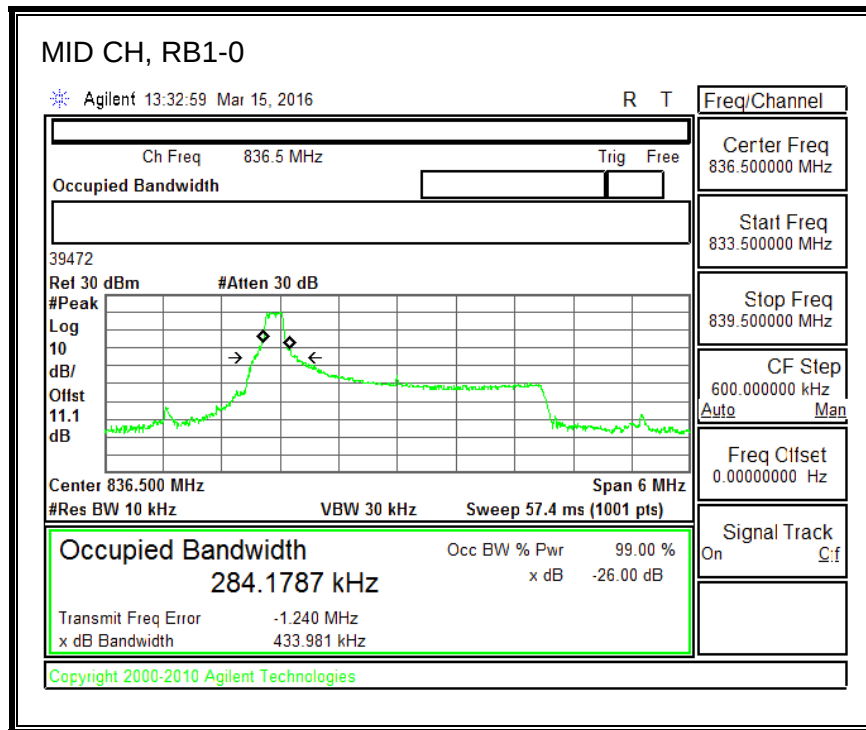
QPSK, (1.4 MHz BAND WIDTH)



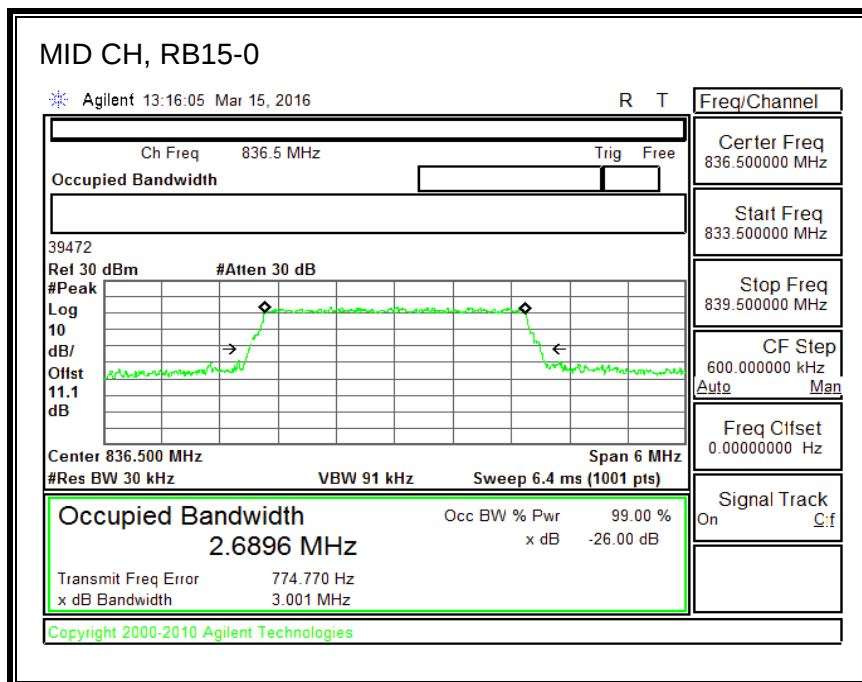
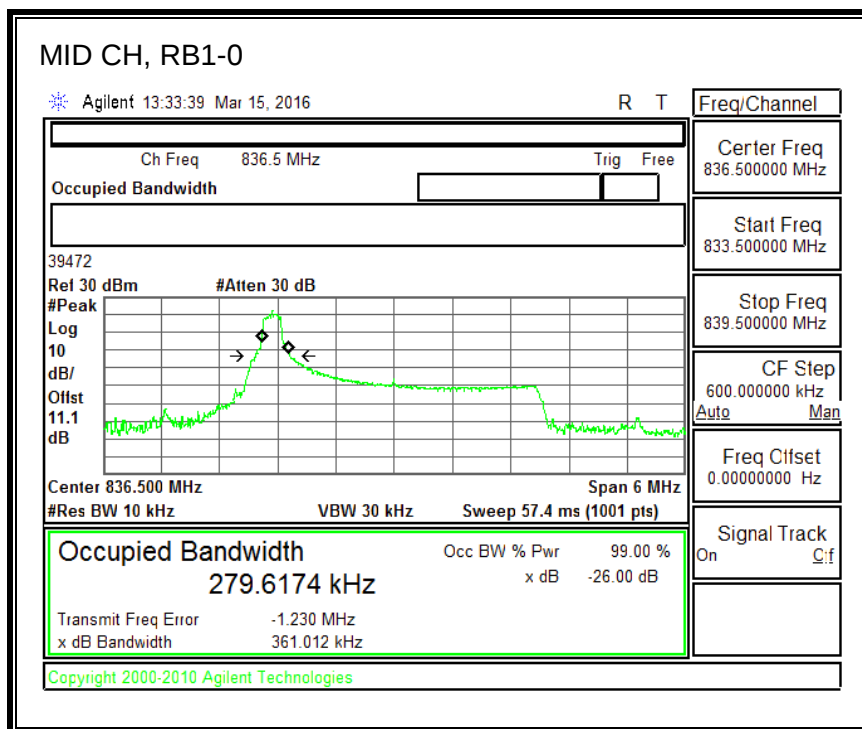
16QAM, (1.4 MHz BAND WIDTH)



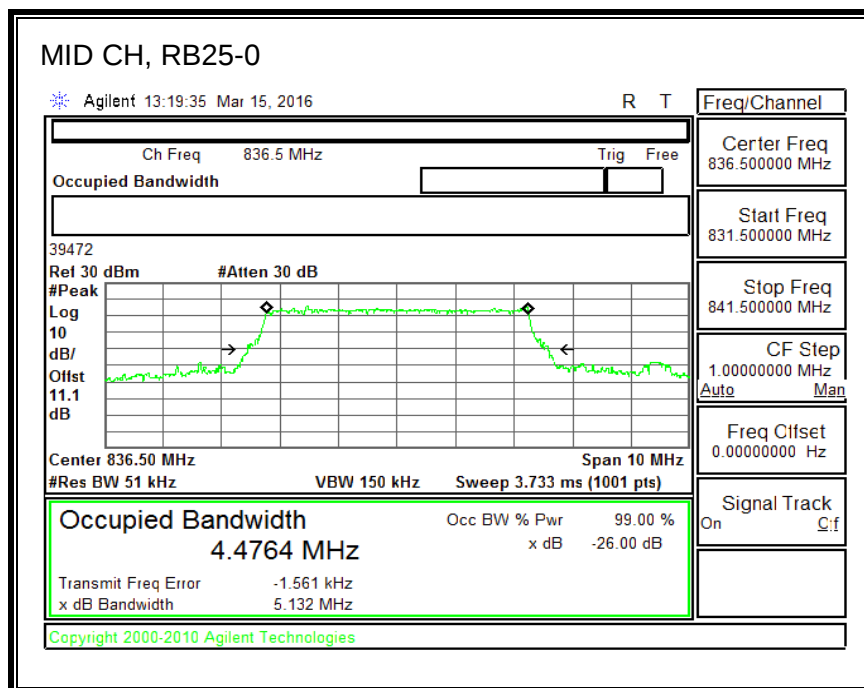
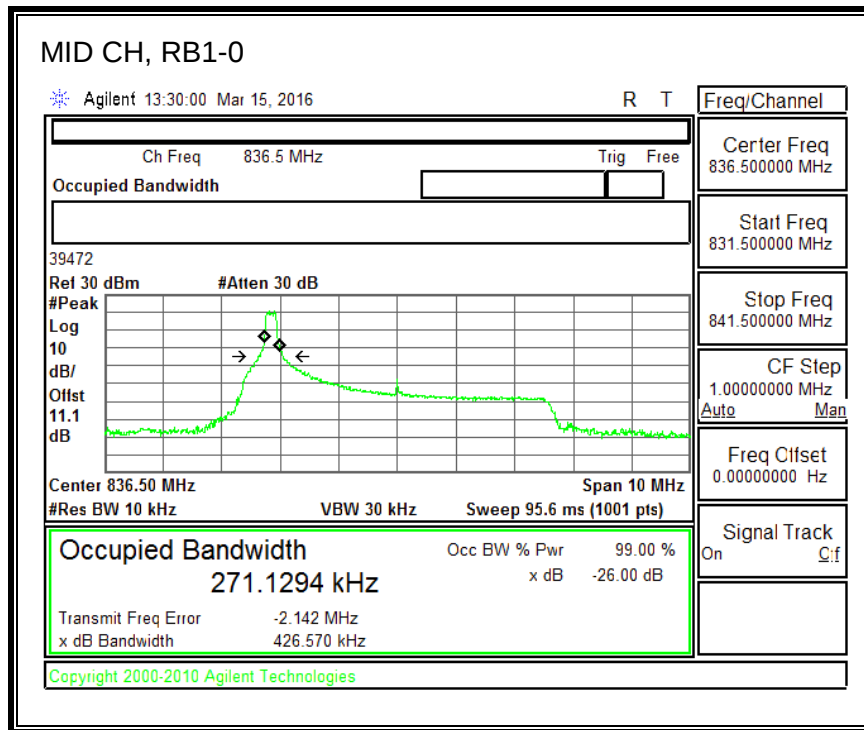
QPSK, (3.0 MHz BAND WIDTH)



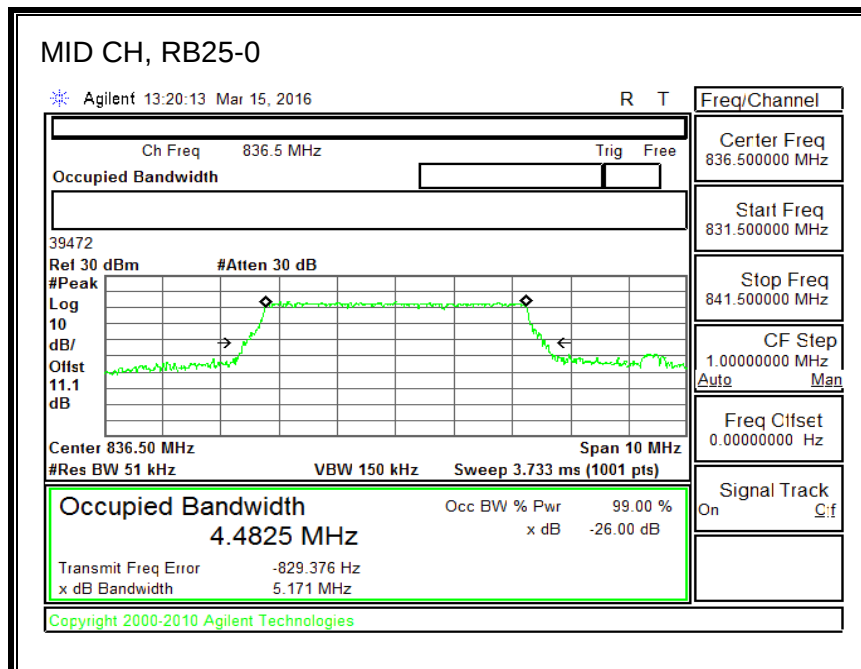
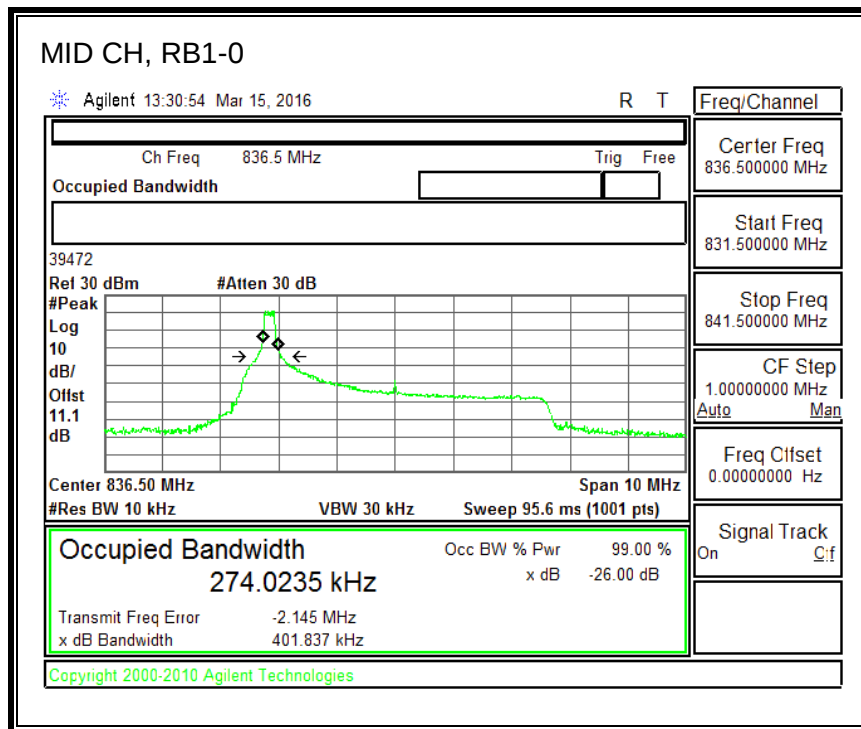
16QAM, (3.0 MHz BAND WIDTH)



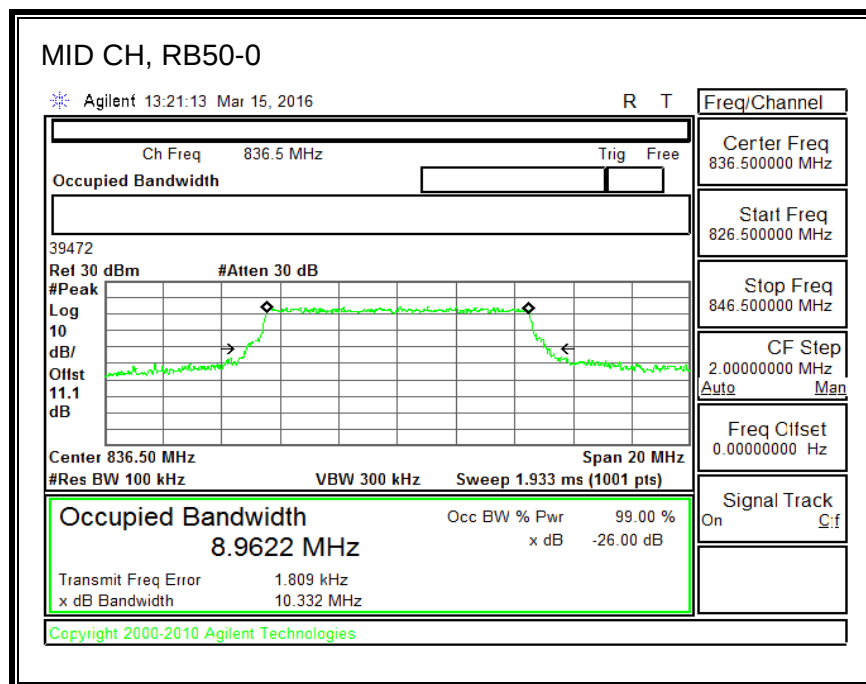
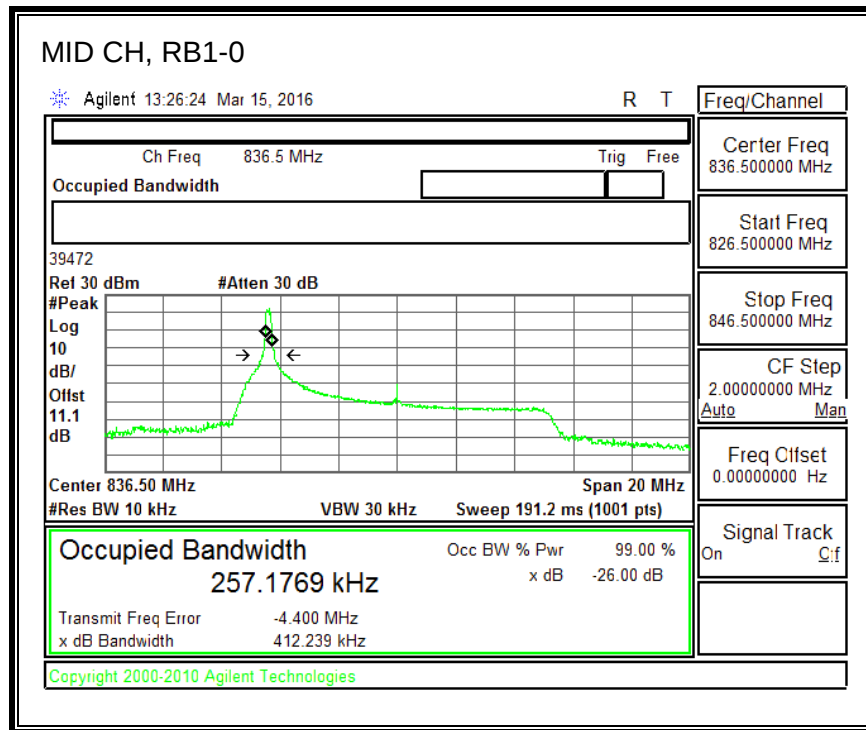
QPSK, (5.0 MHz BAND WIDTH)



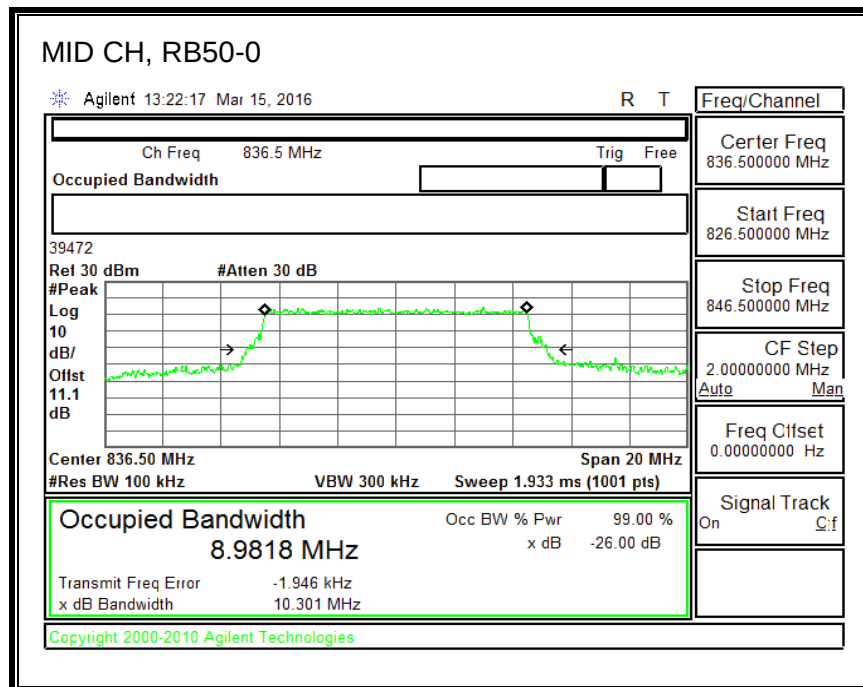
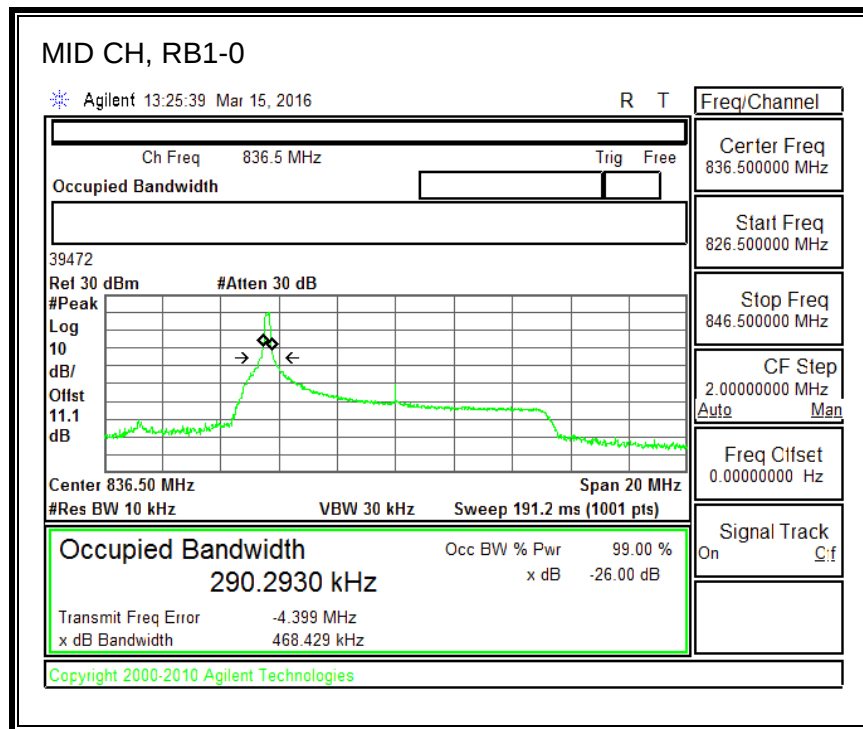
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

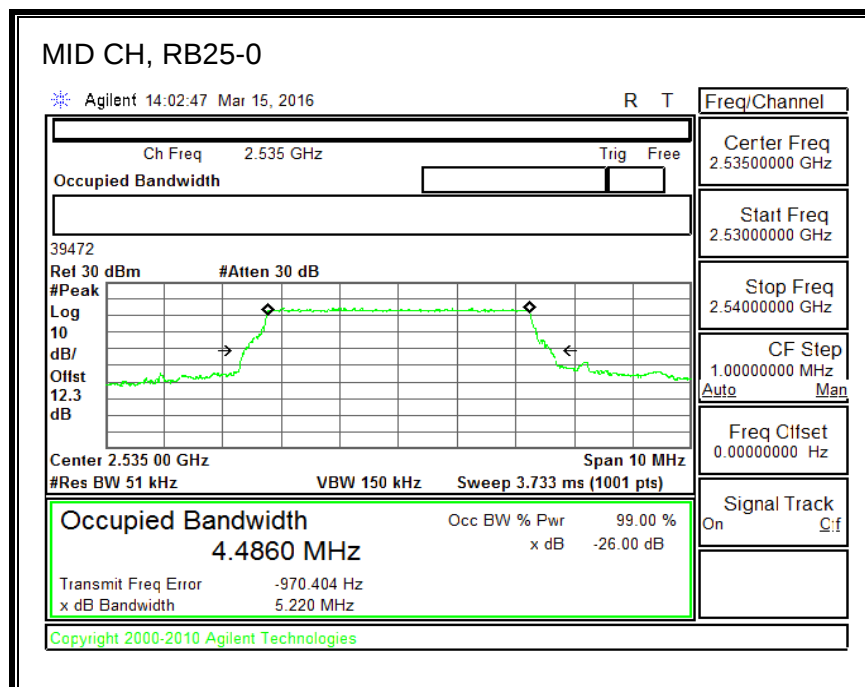
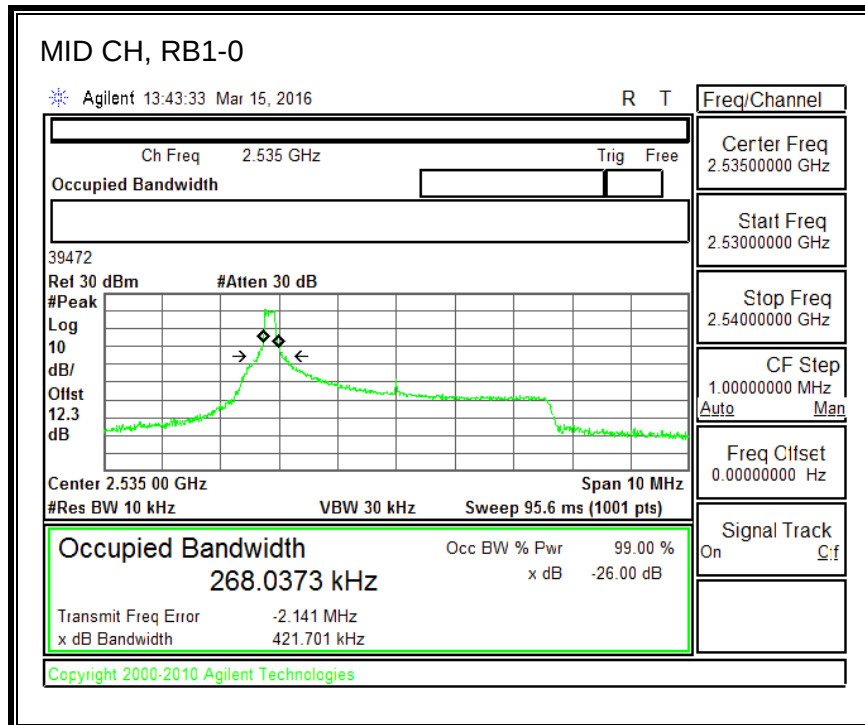


16QAM, (10.0 MHz BAND WIDTH)

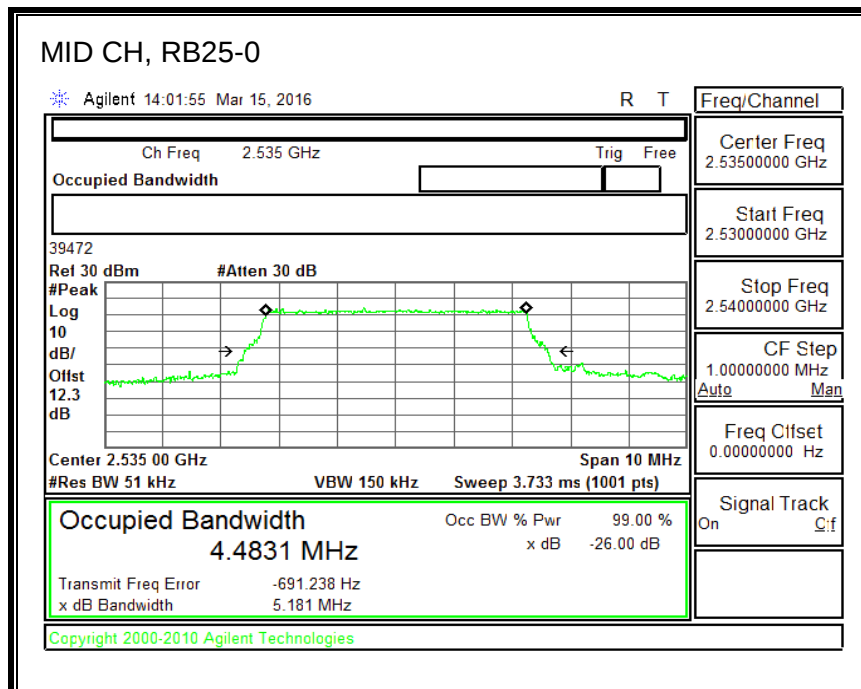
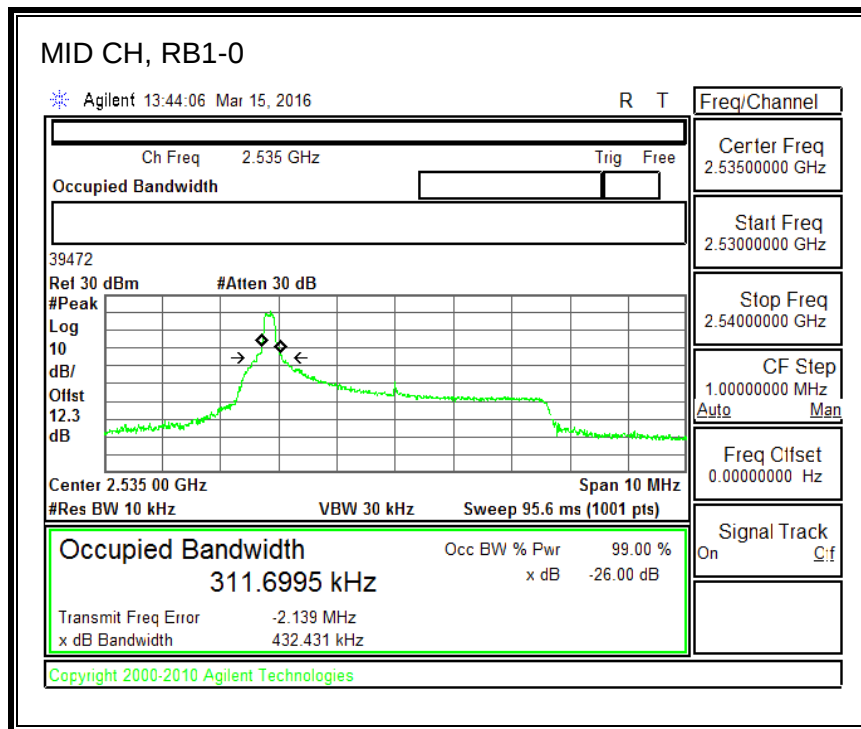


8.1.4. LTE BAND 7

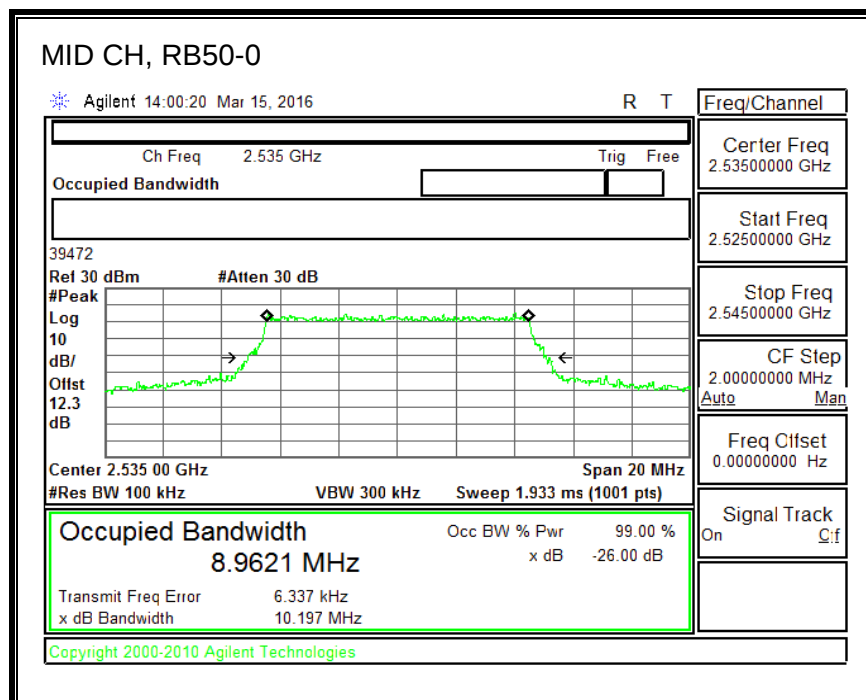
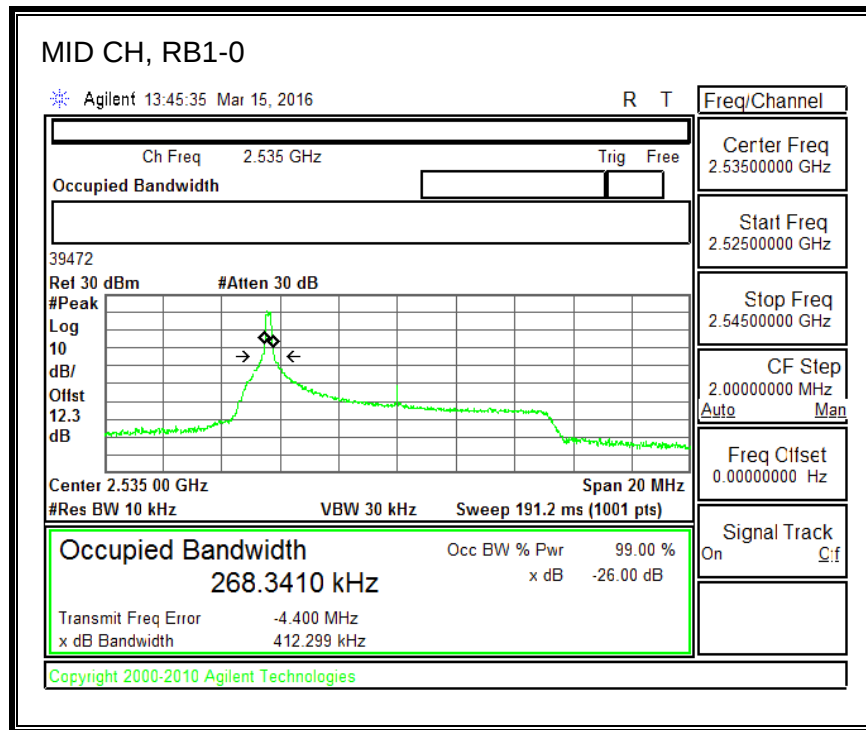
QPSK, (5.0 MHz BAND WIDTH)



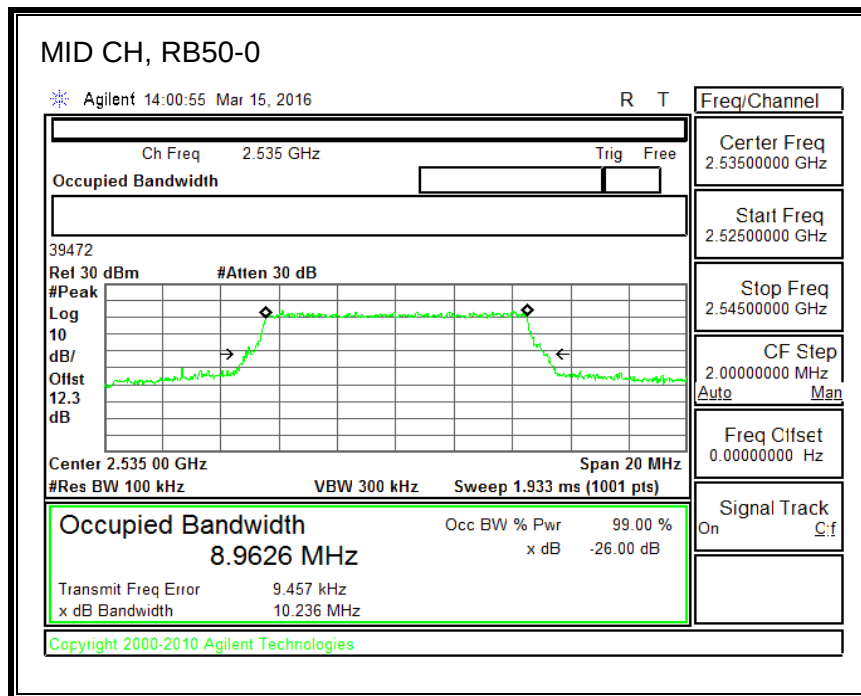
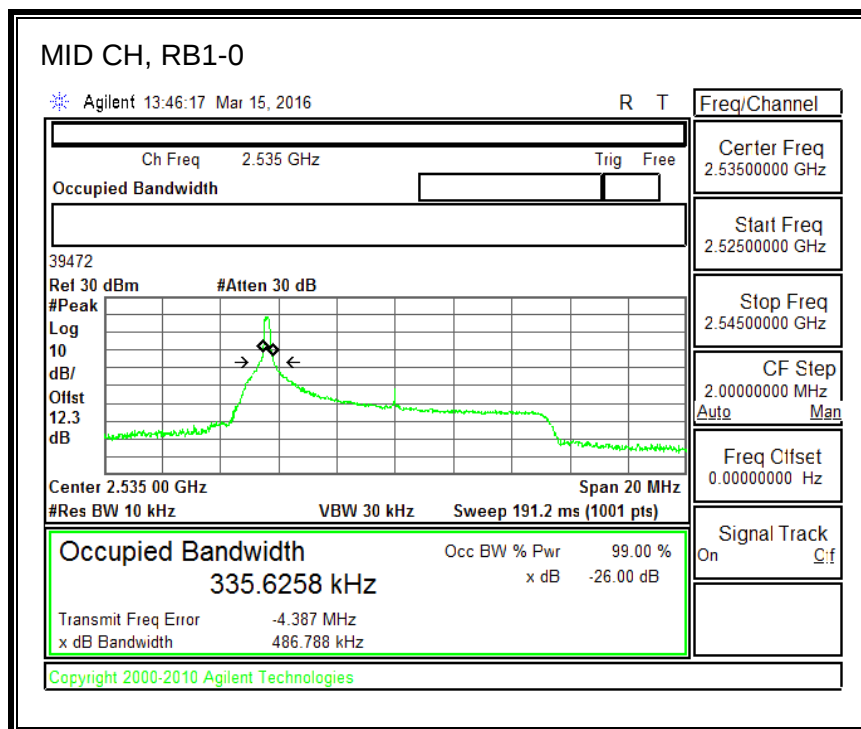
16QAM, (5.0 MHz BAND WIDTH)



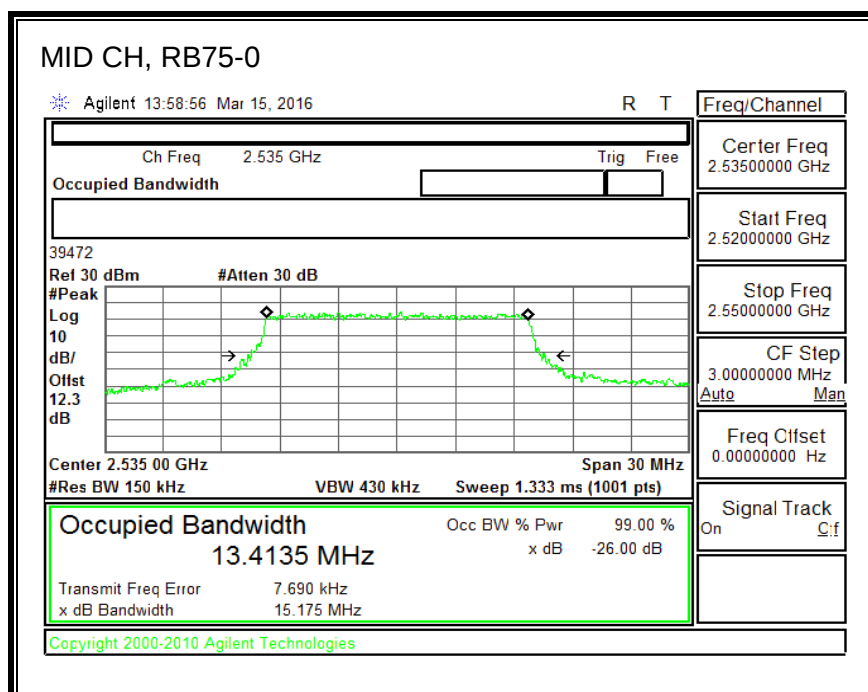
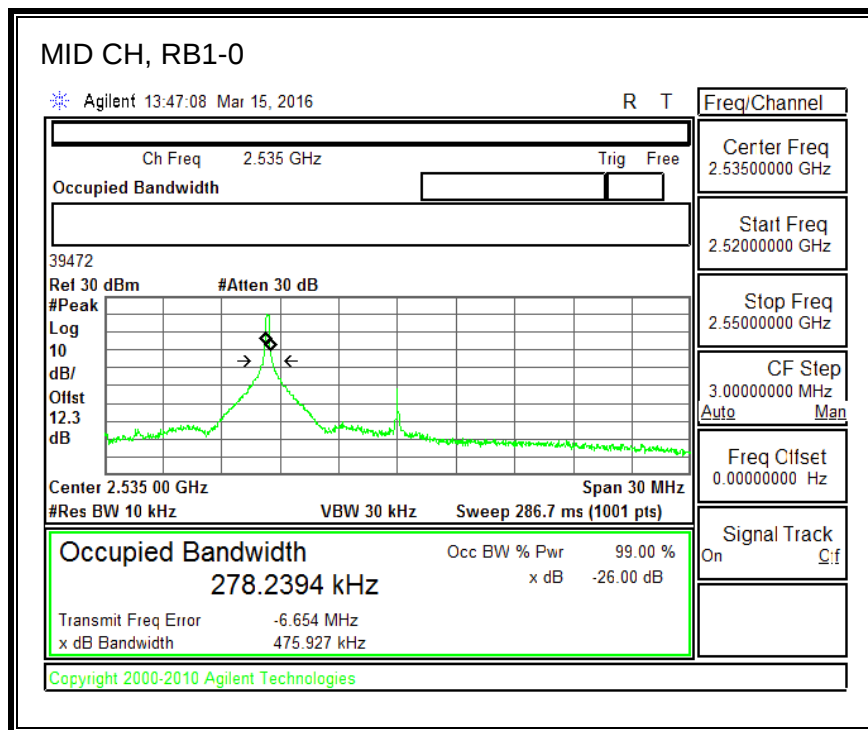
QPSK, (10.0 MHz BAND WIDTH)



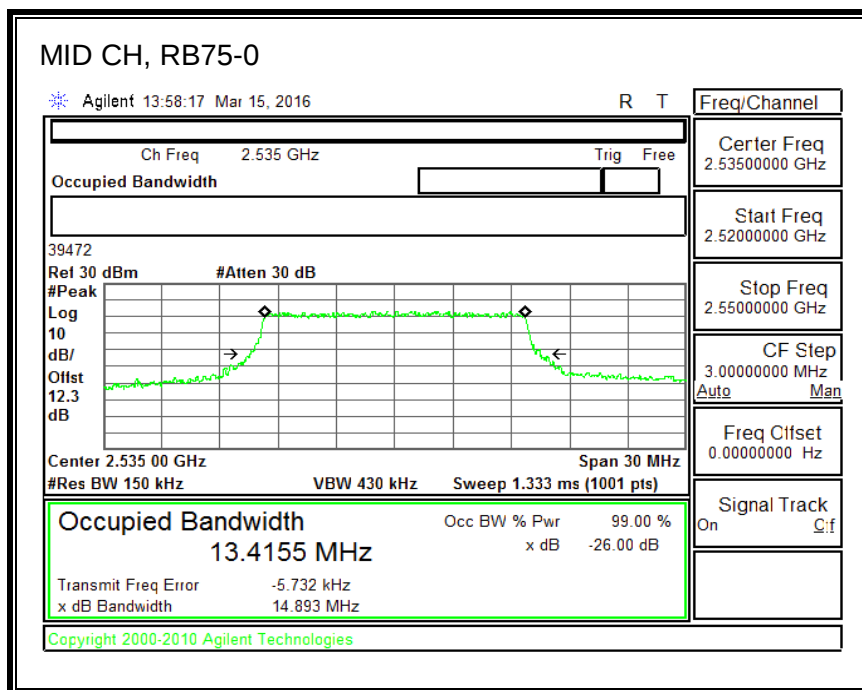
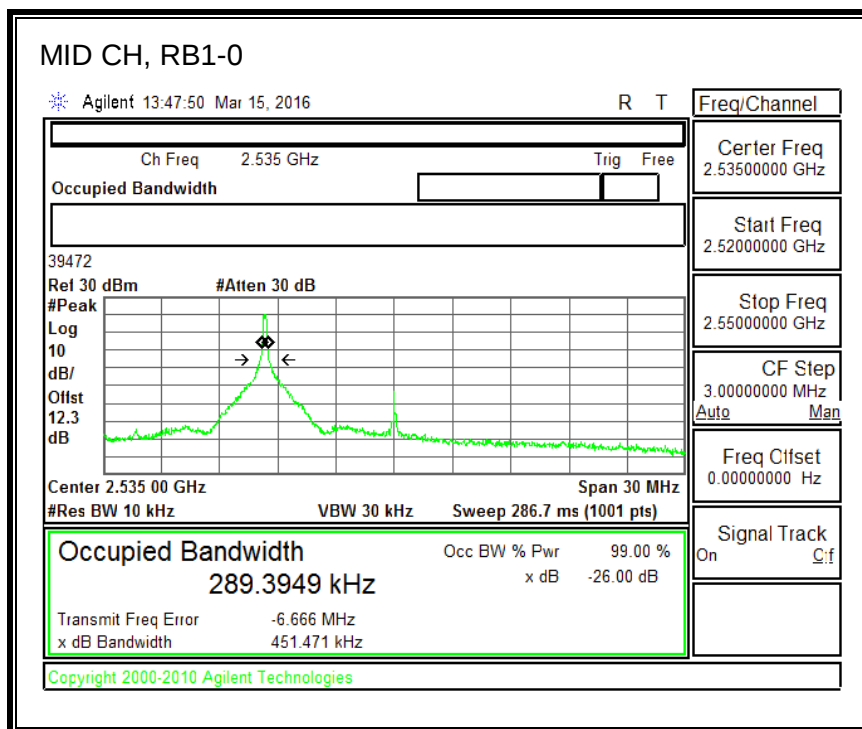
16QAM, (10.0 MHz BAND WIDTH)



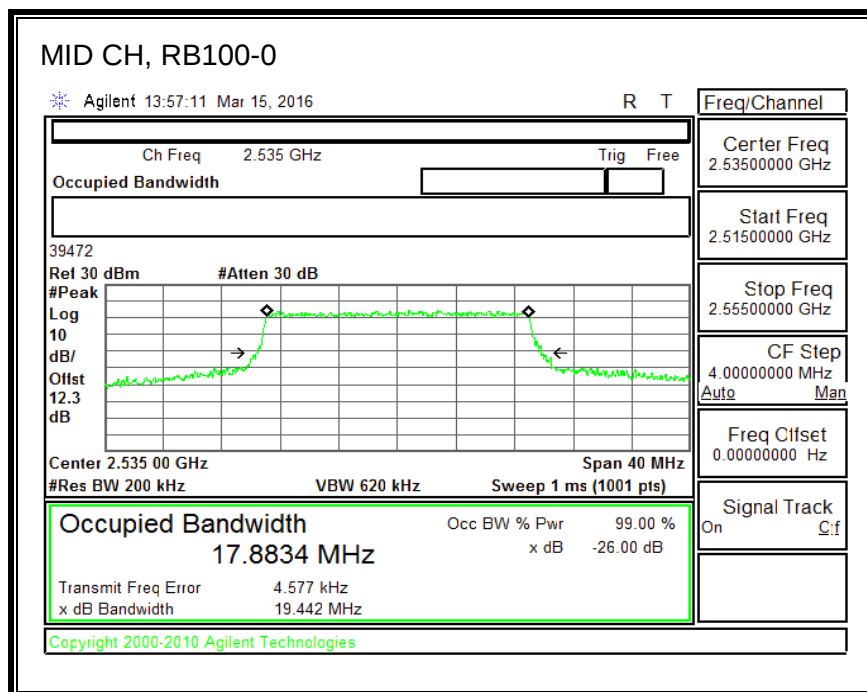
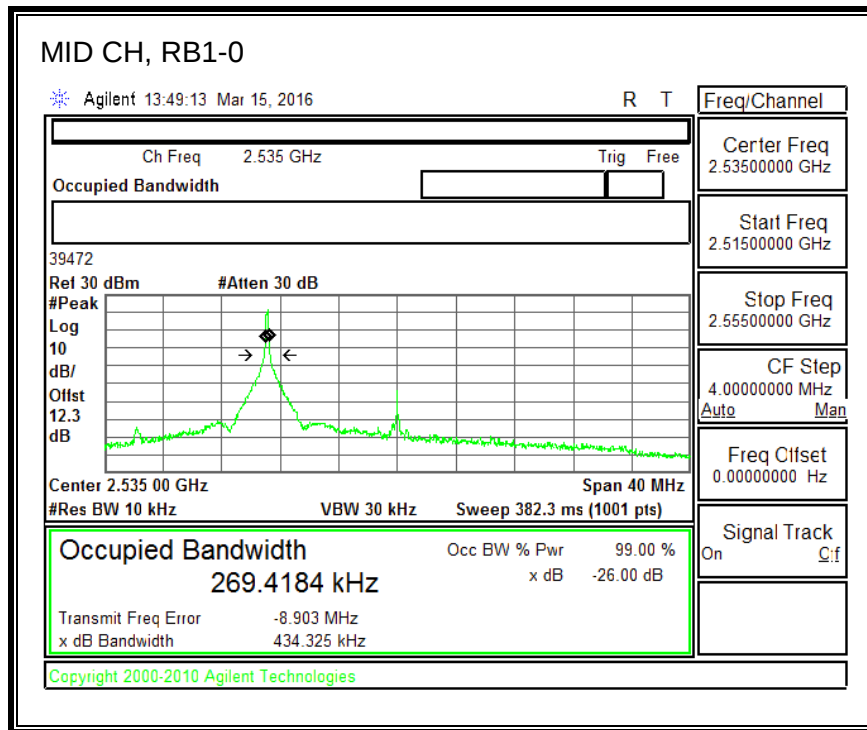
QPSK, (15.0 MHz BAND WIDTH)



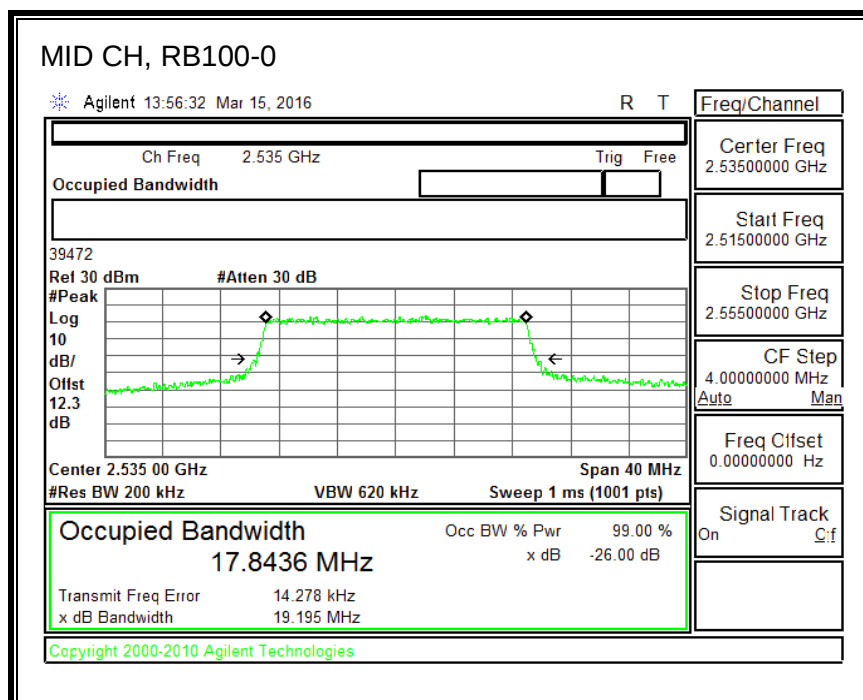
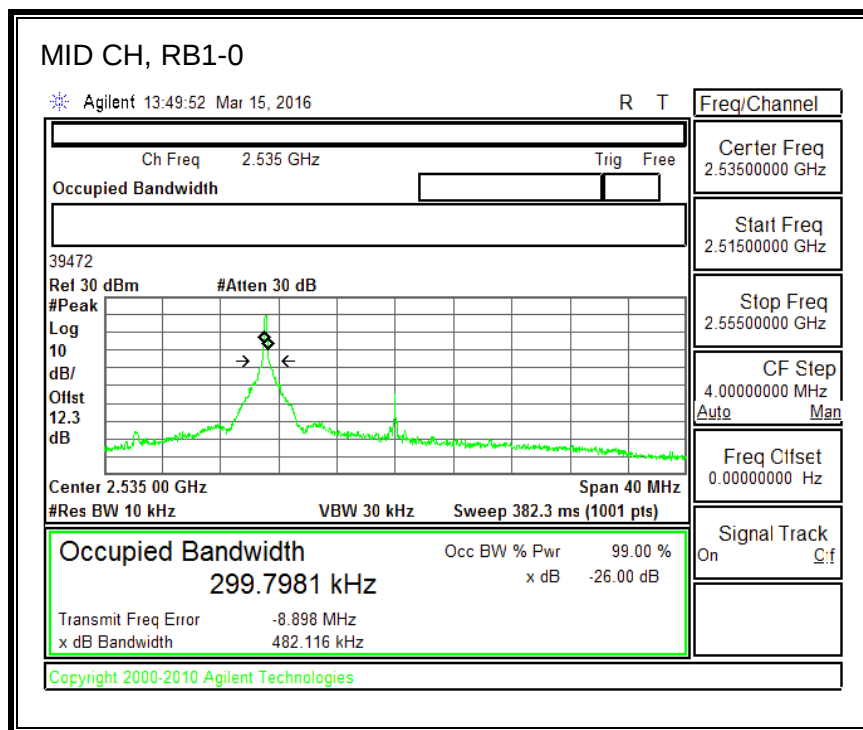
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)

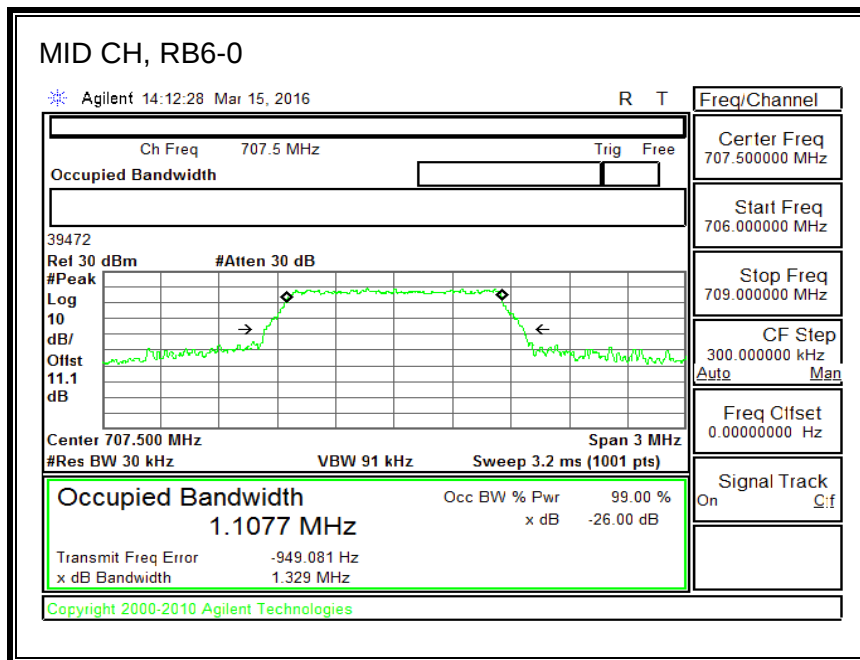
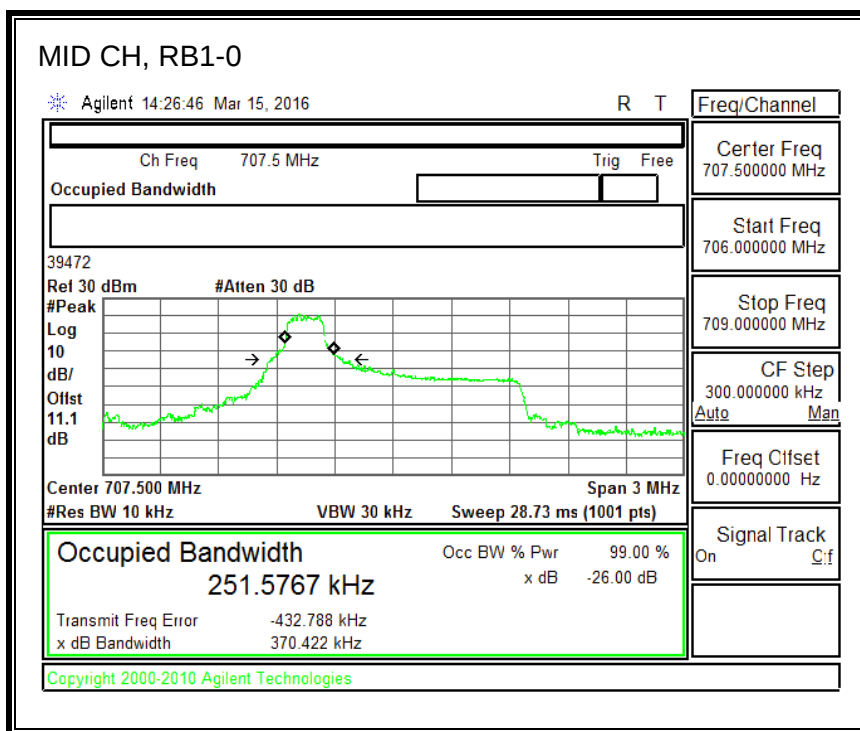


16QAM, (20.0 MHz BAND WIDTH)

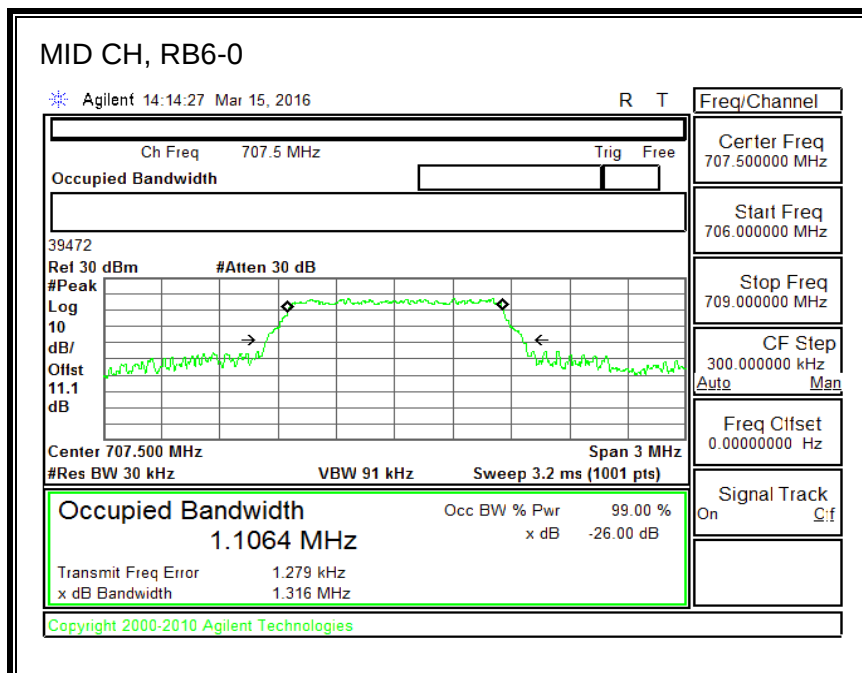
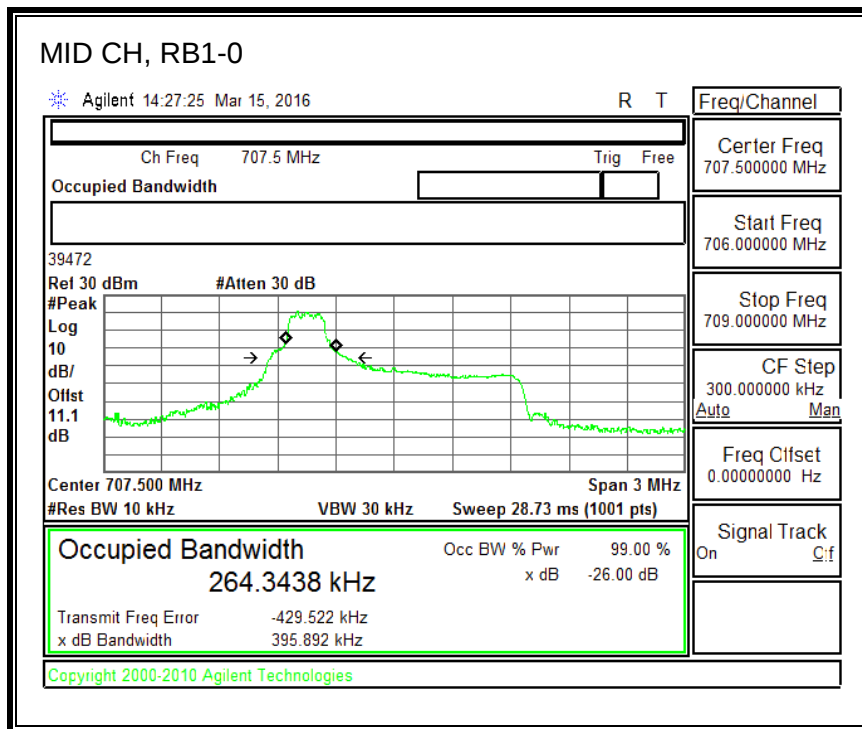


8.1.5. LTE BAND 12

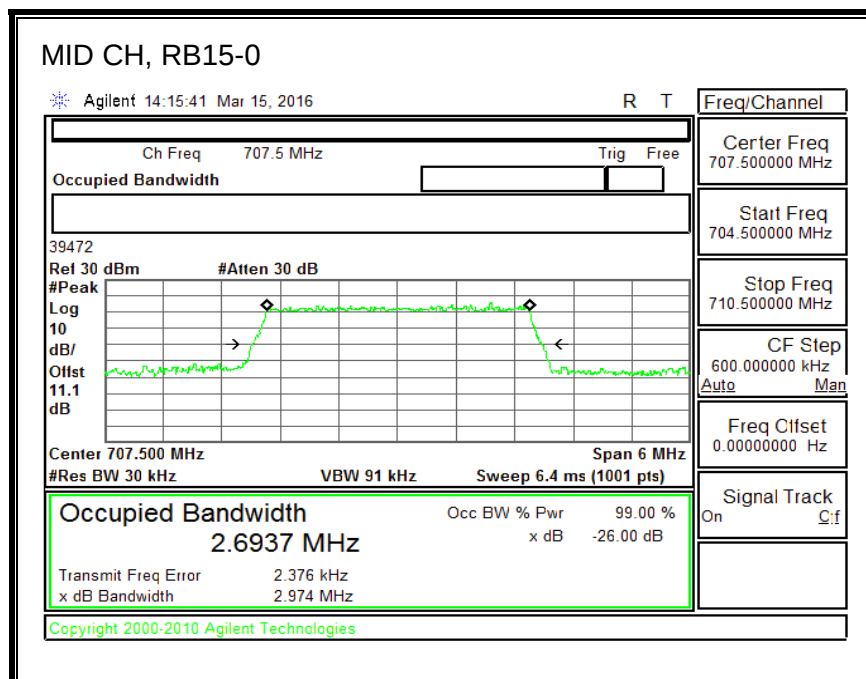
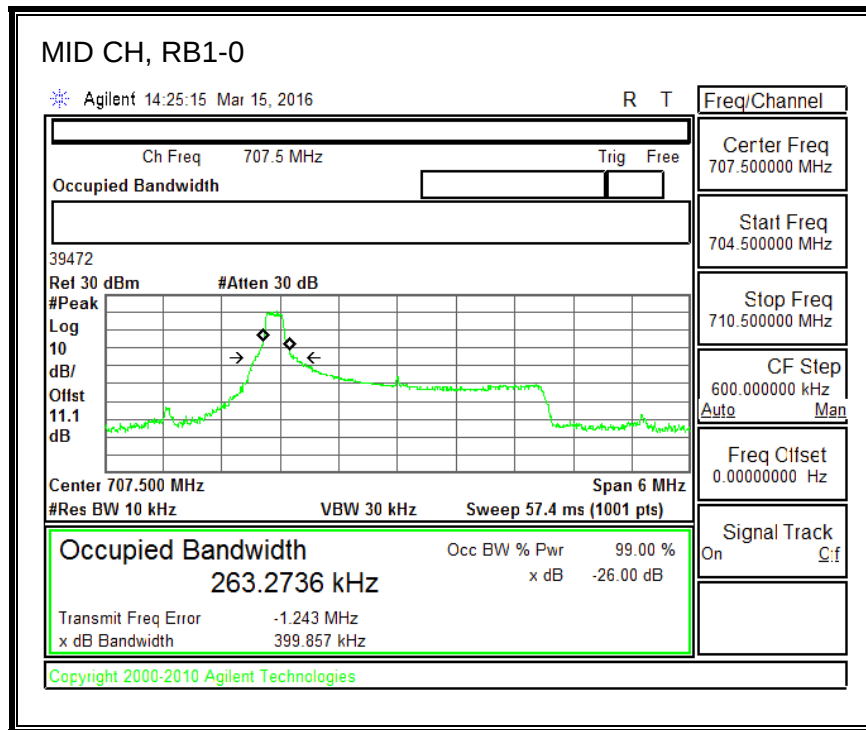
QPSK, (1.4 MHz BAND WIDTH)



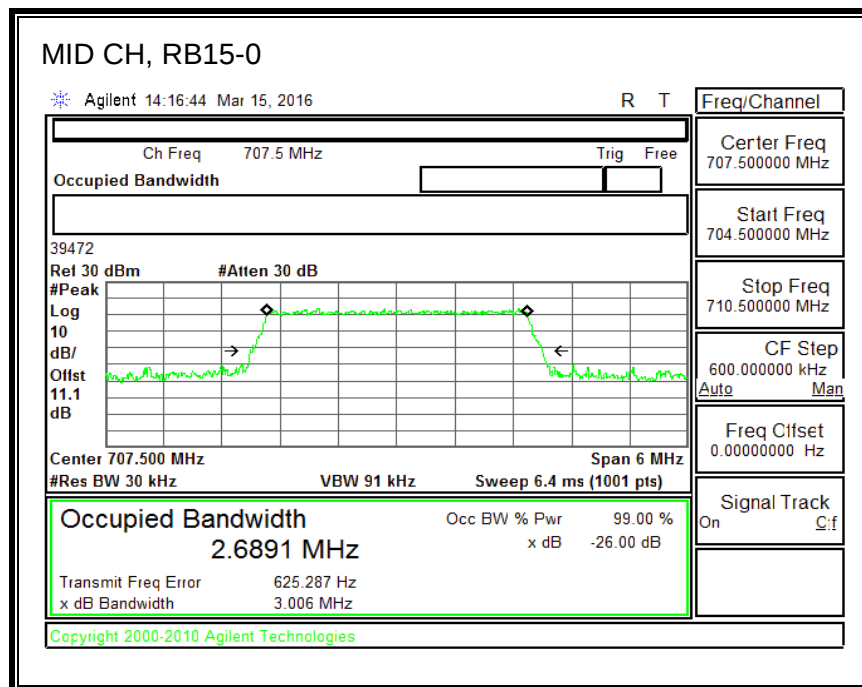
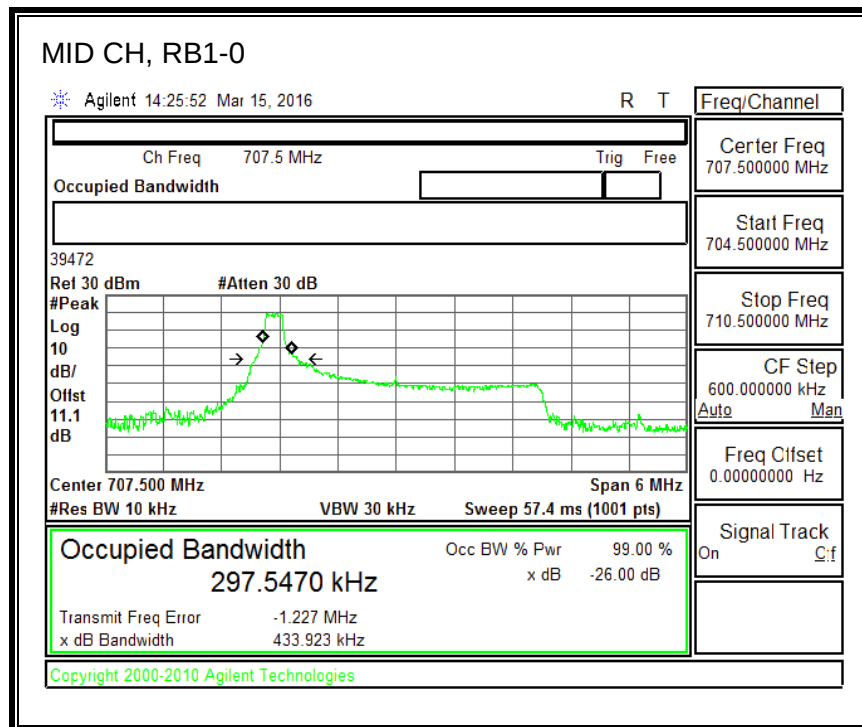
16QAM, (1.4 MHz BAND WIDTH)



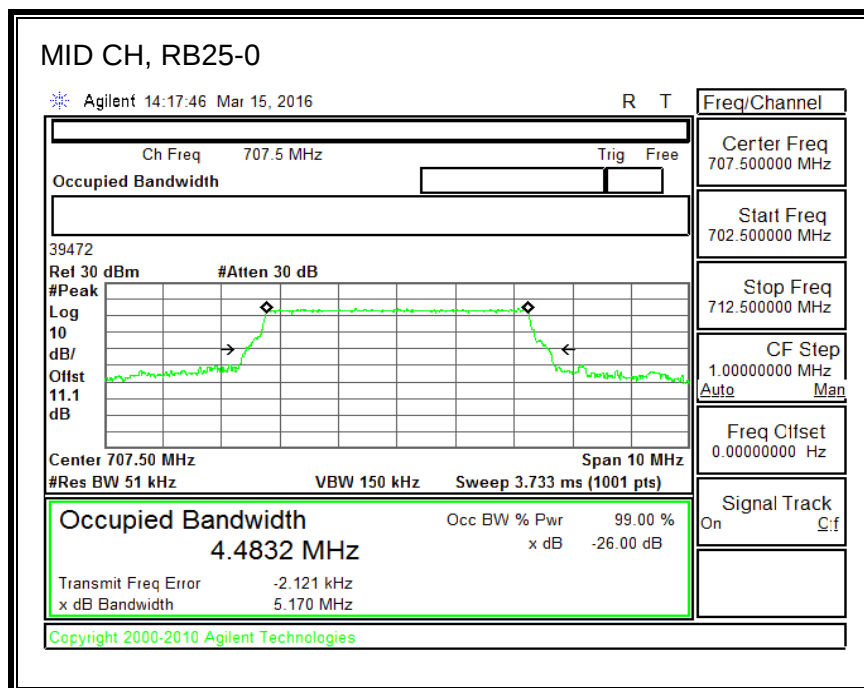
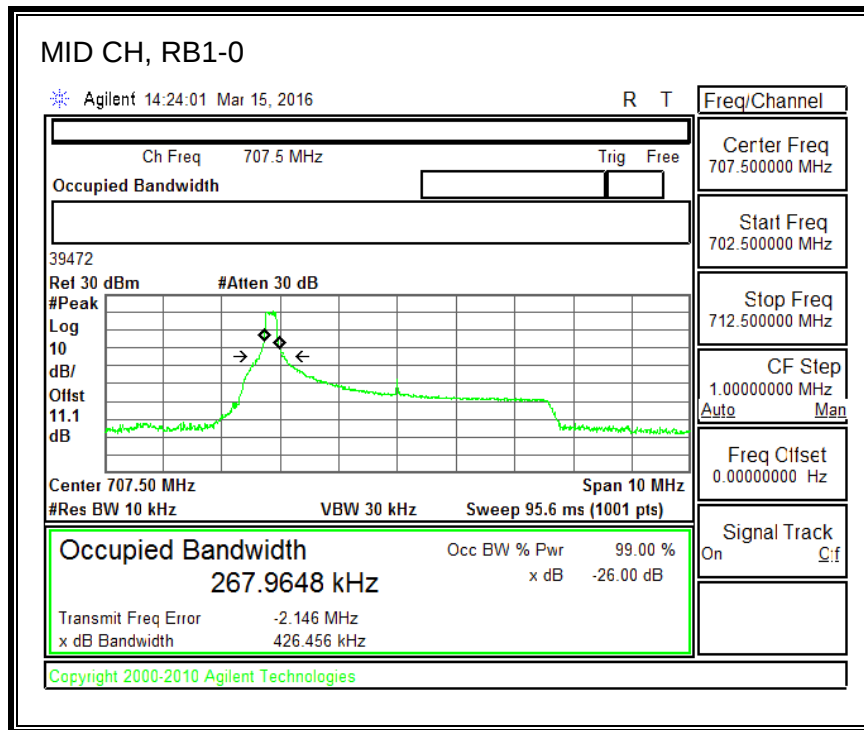
QPSK, (3.0 MHz BAND WIDTH)



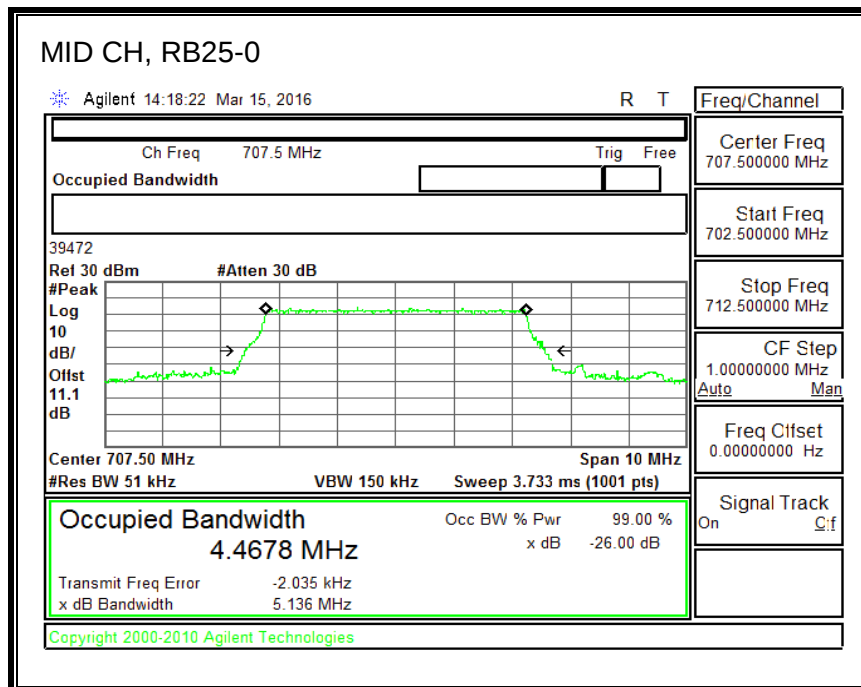
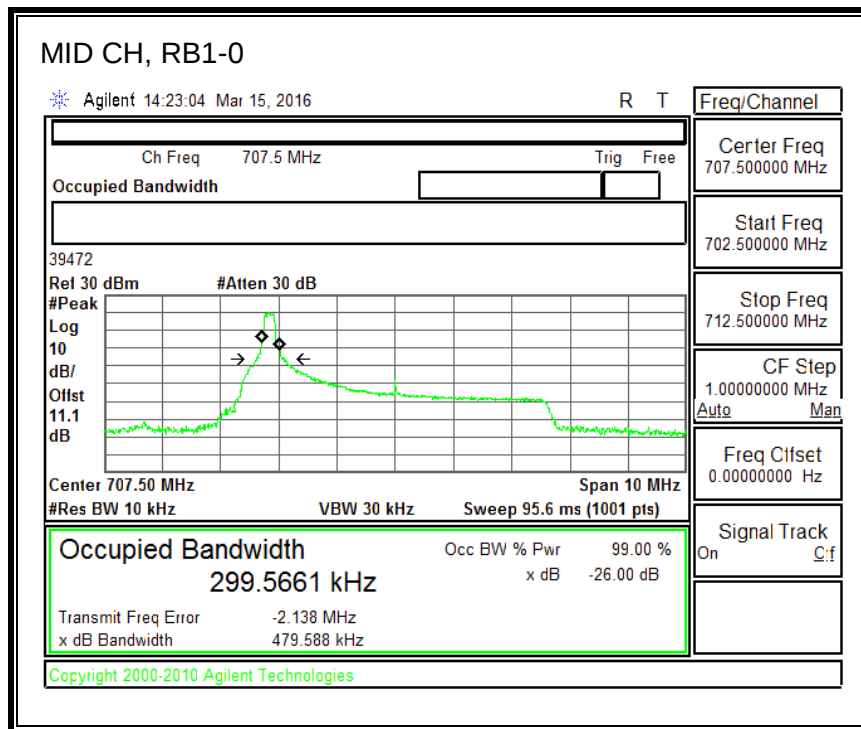
16QAM, (3.0 MHz BAND WIDTH)



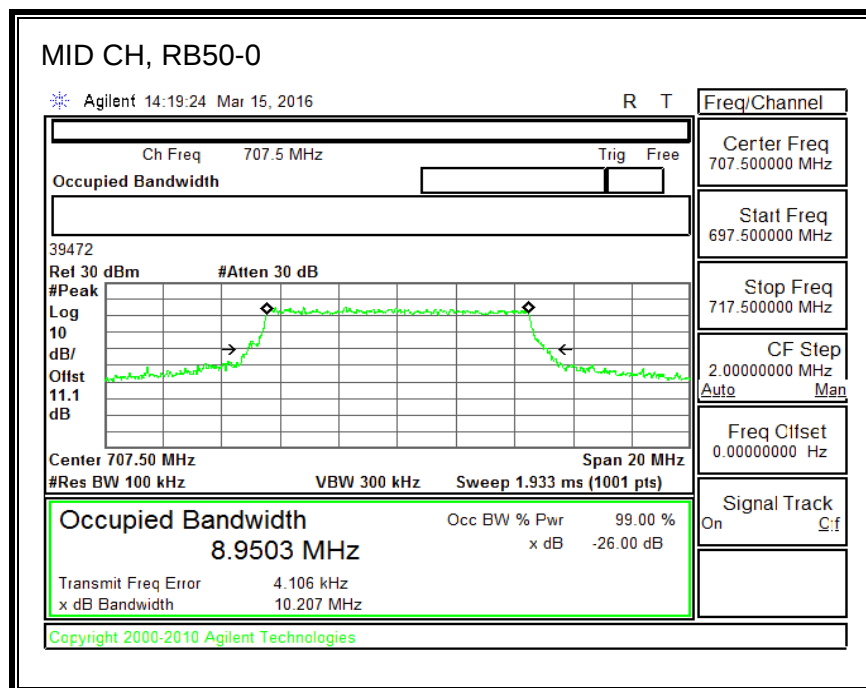
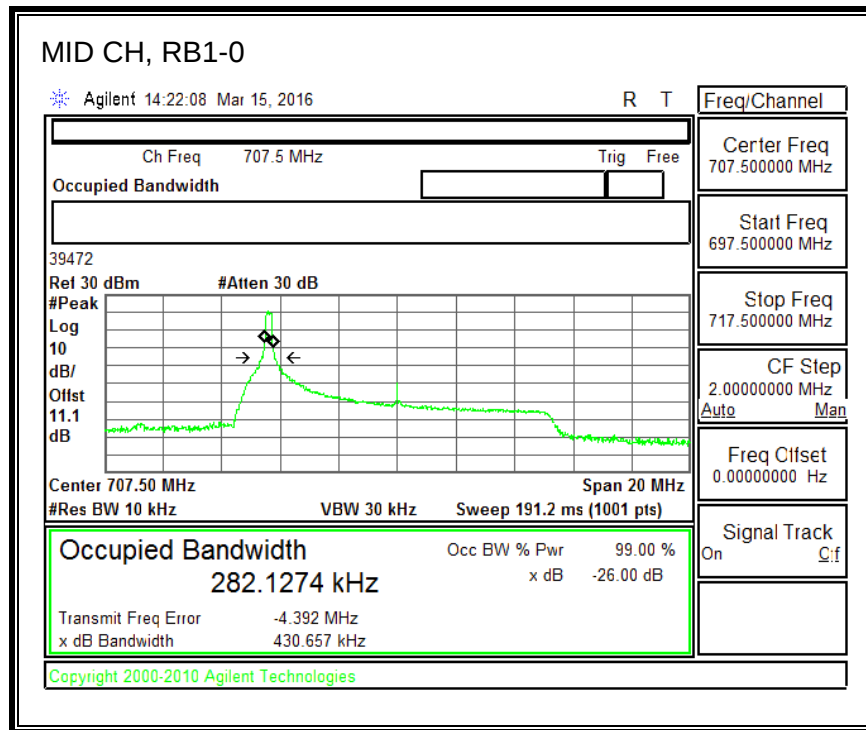
QPSK, (5.0 MHz BAND WIDTH)



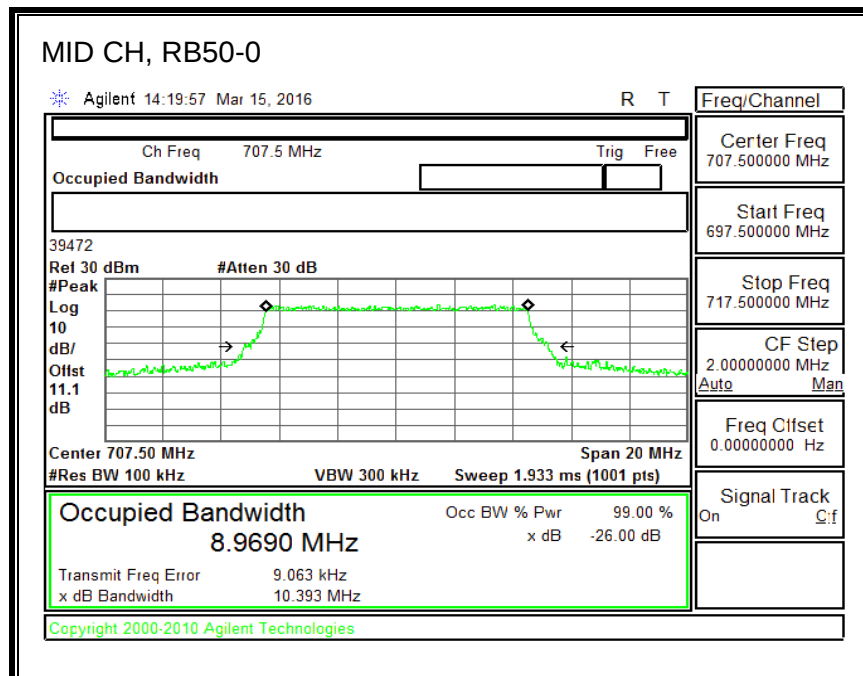
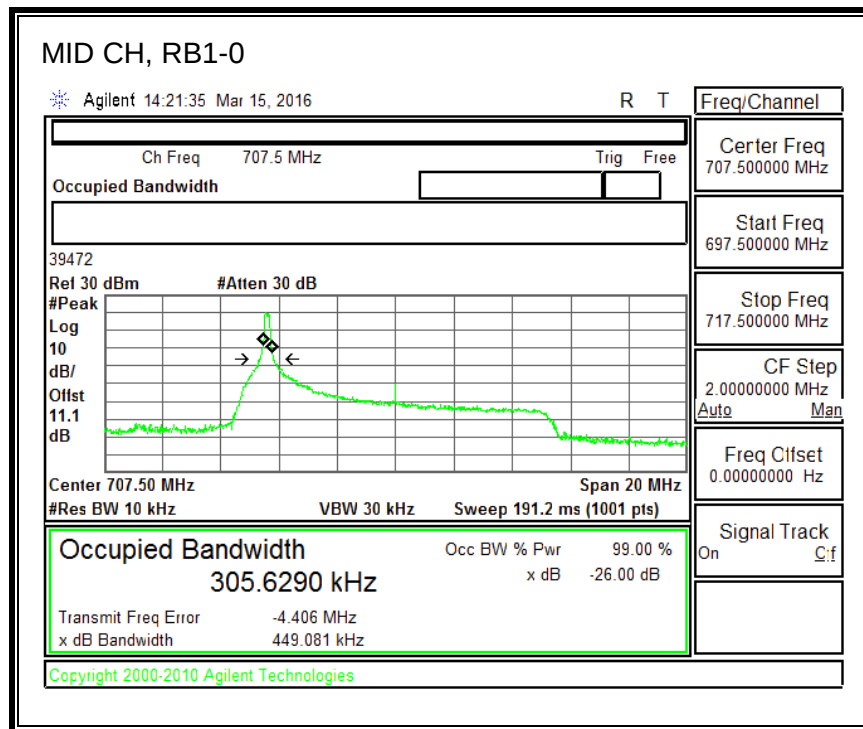
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

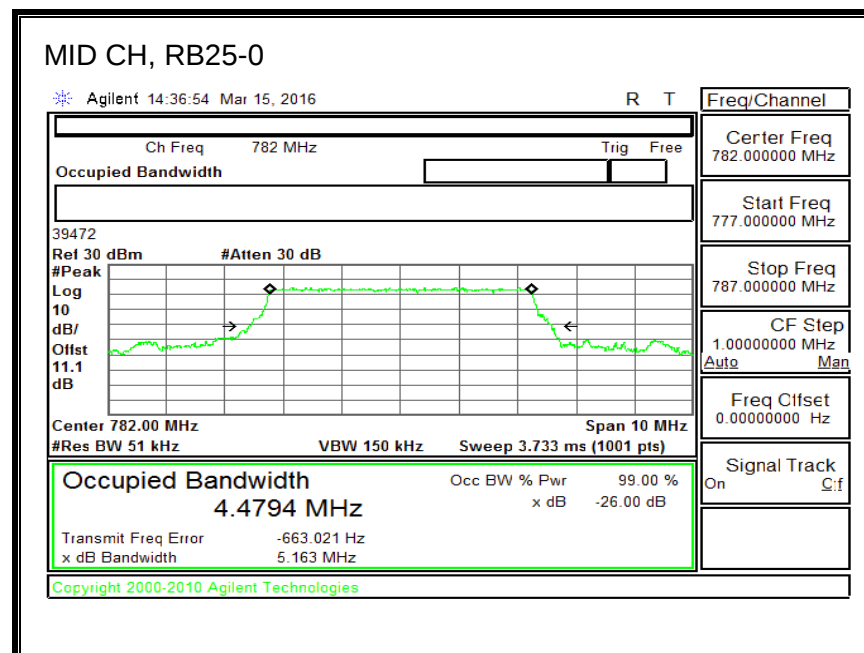
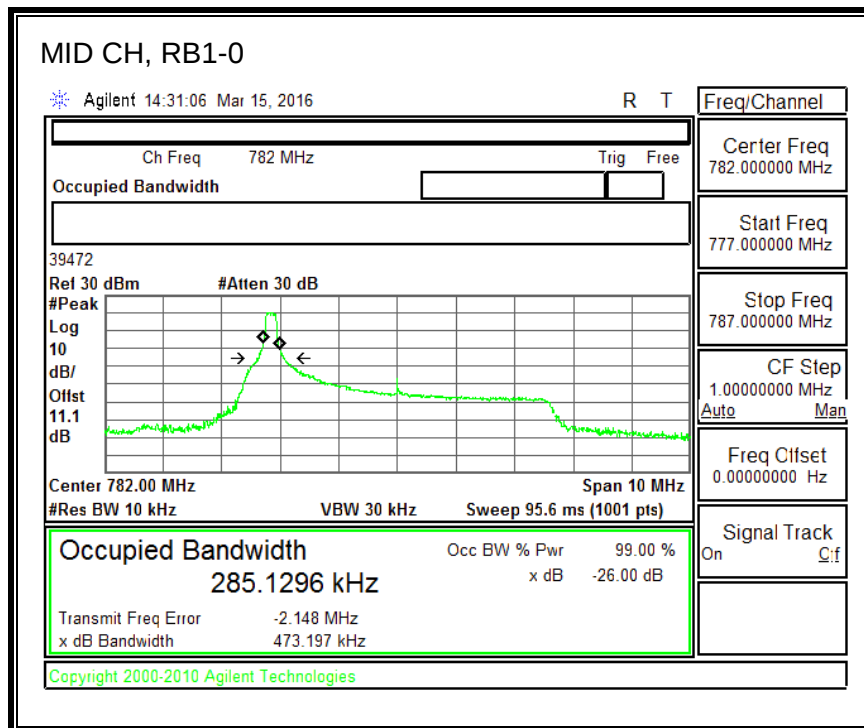


16QAM, (10.0 MHz BAND WIDTH)

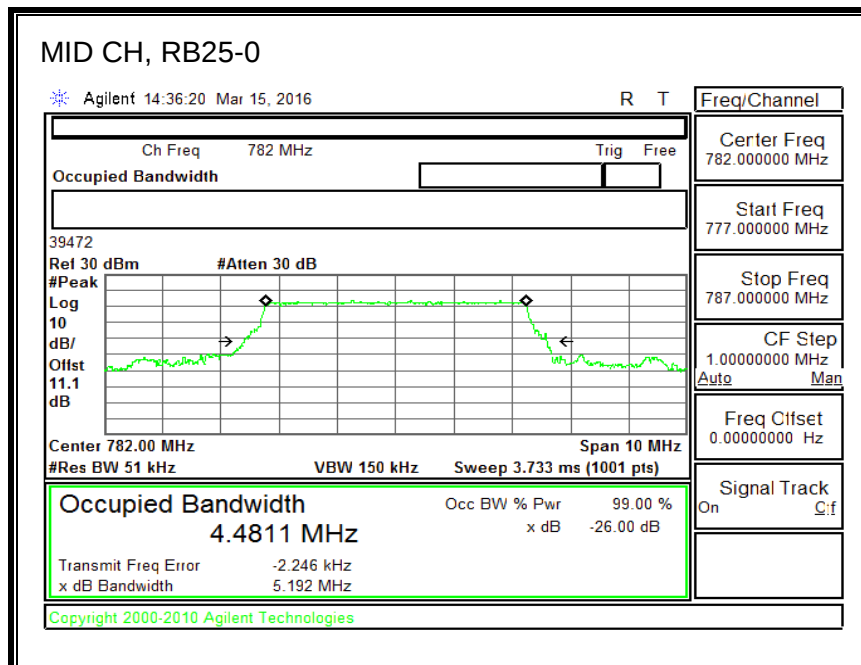
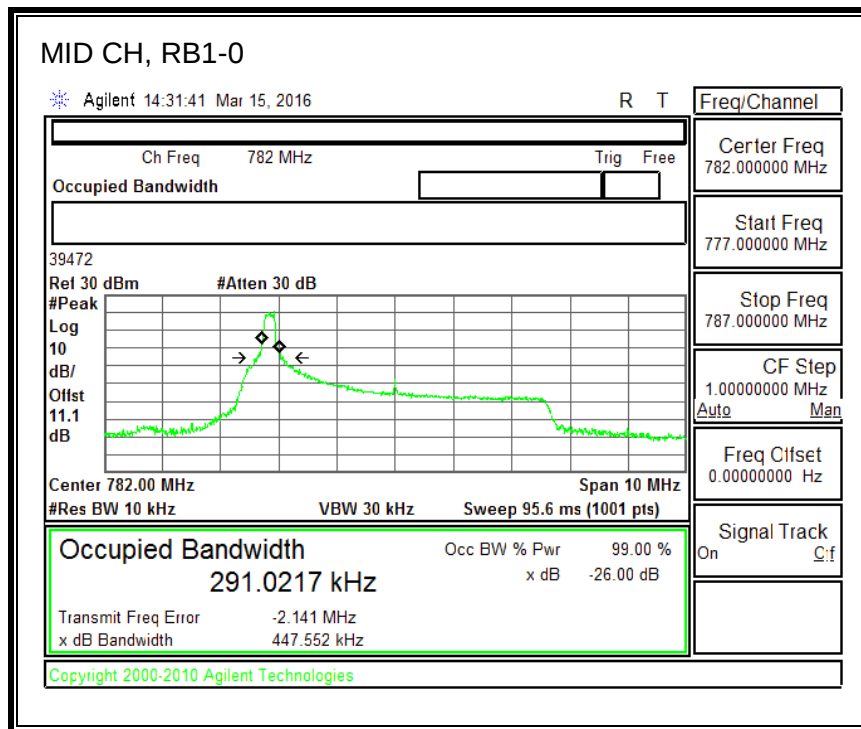


8.1.6. LTE BAND 13

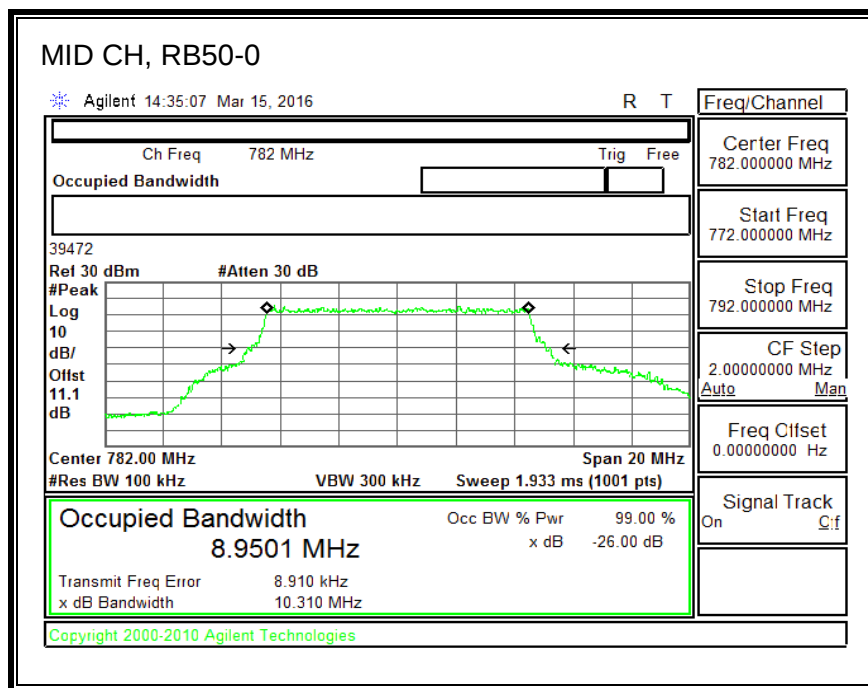
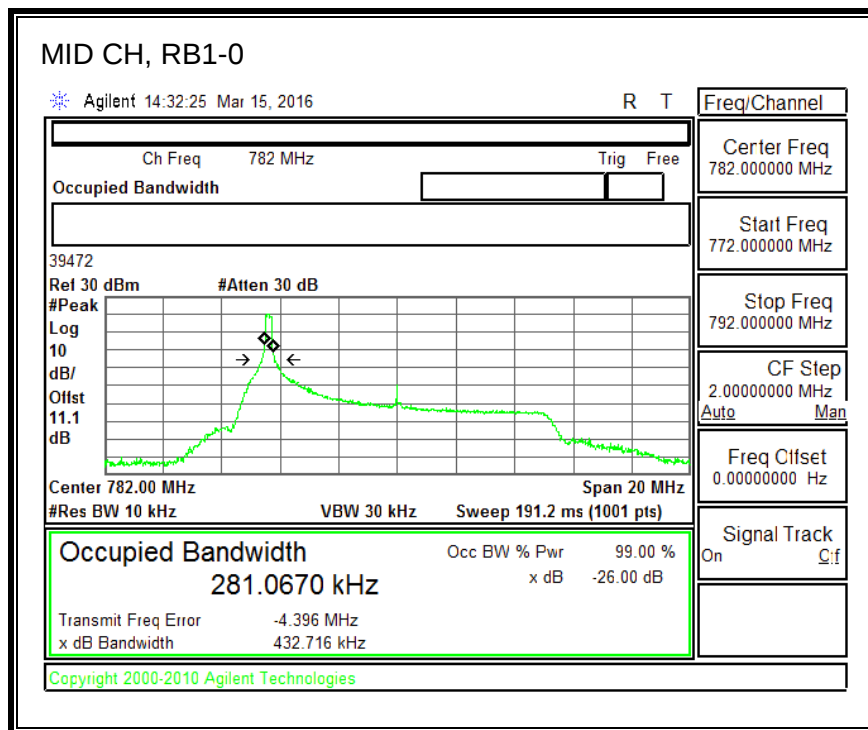
QPSK, (5.0 MHz BAND WIDTH)



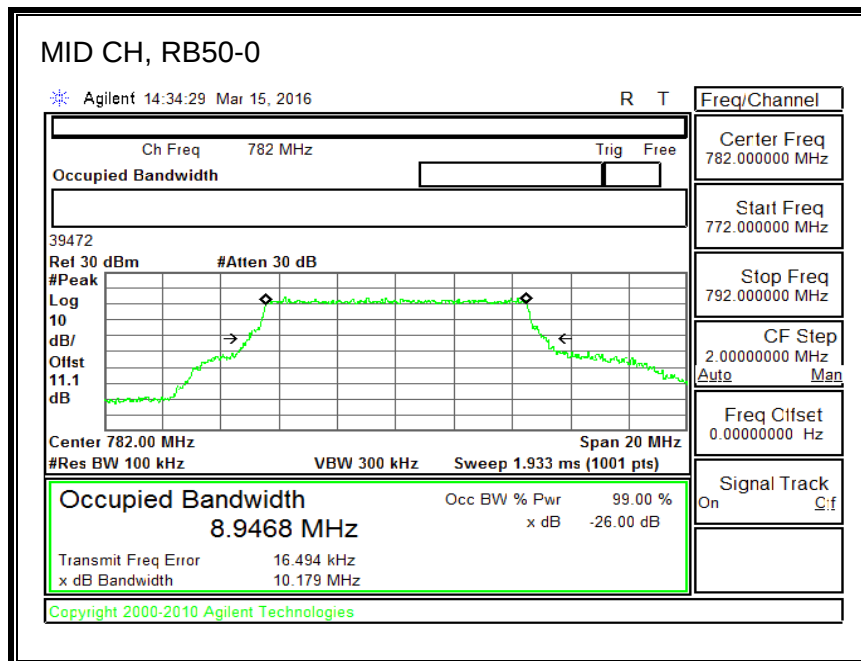
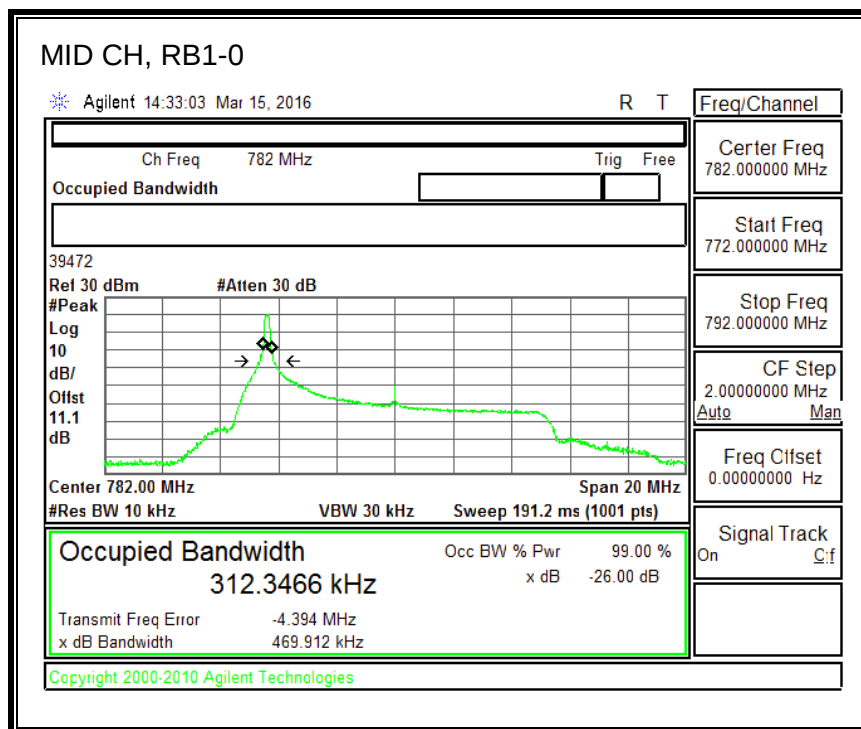
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

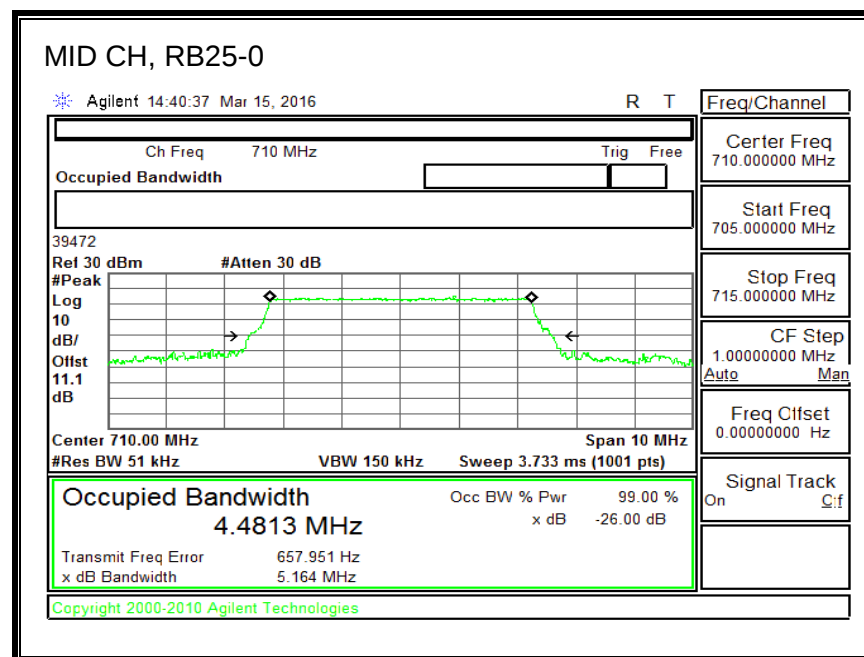
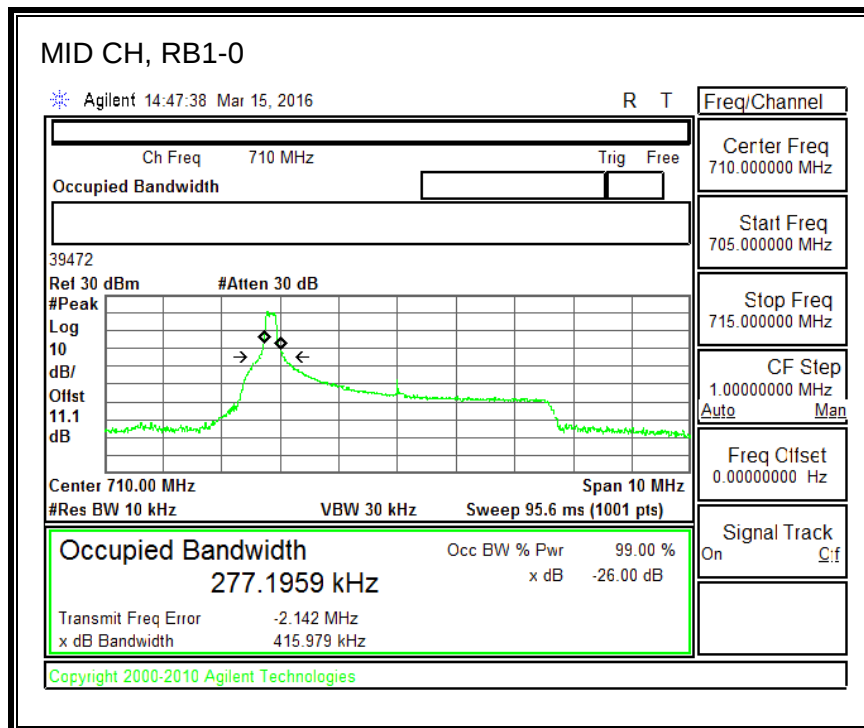


16QAM, (10.0 MHz BAND WIDTH)

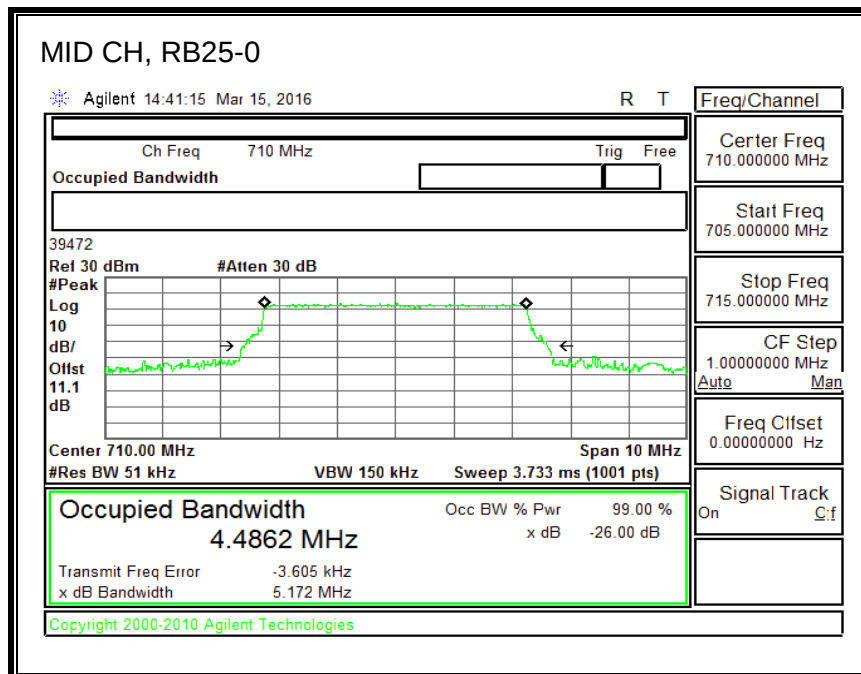
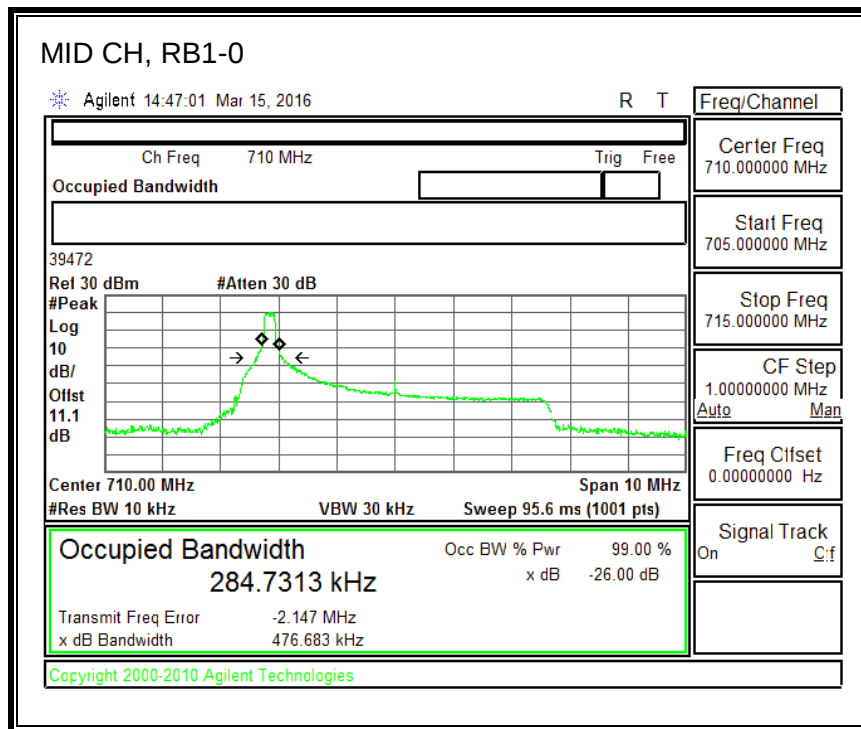


8.1.7. LTE BAND 17

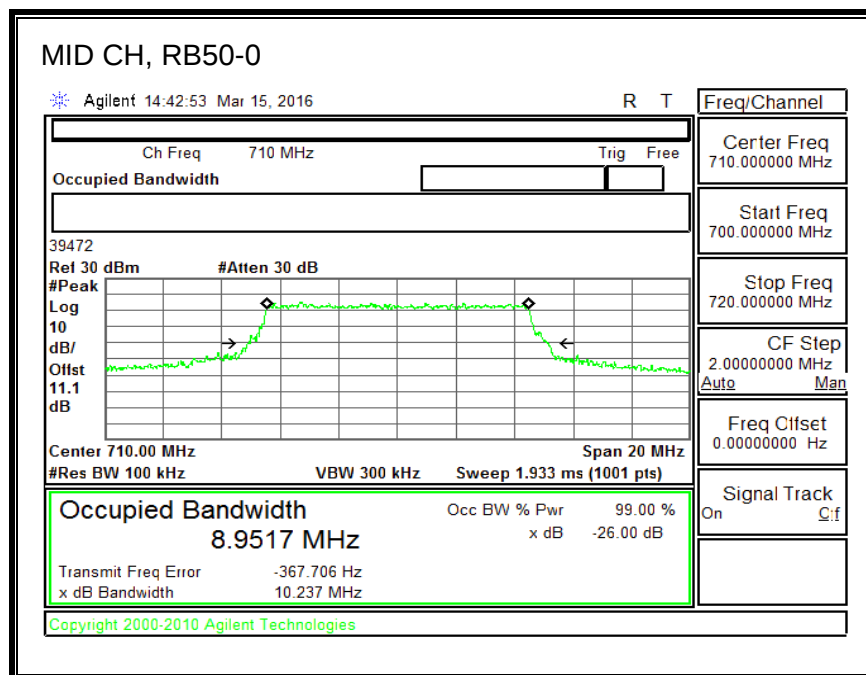
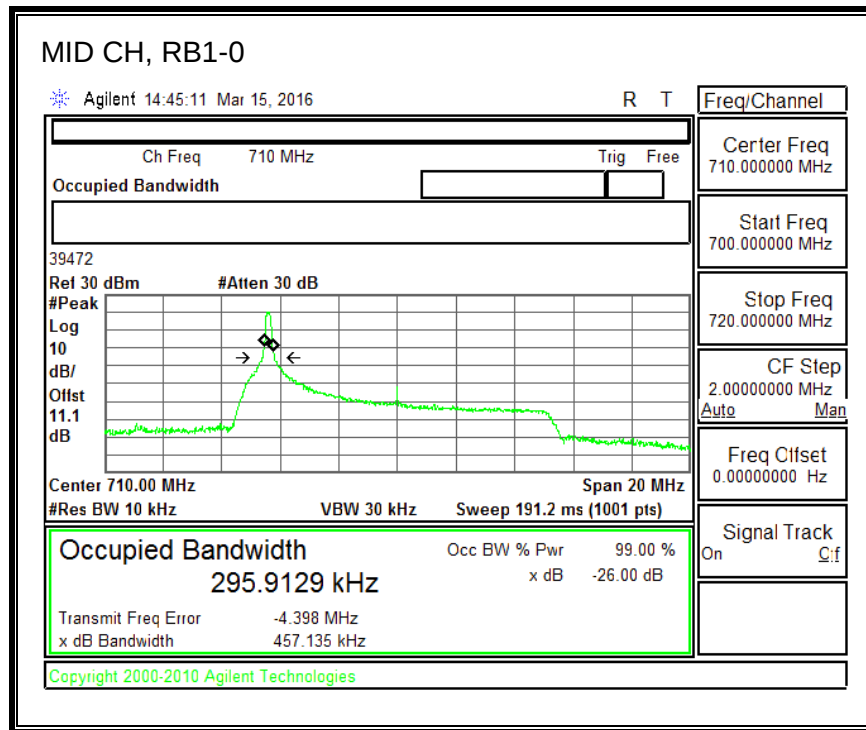
QPSK, (5.0 MHz BAND WIDTH)



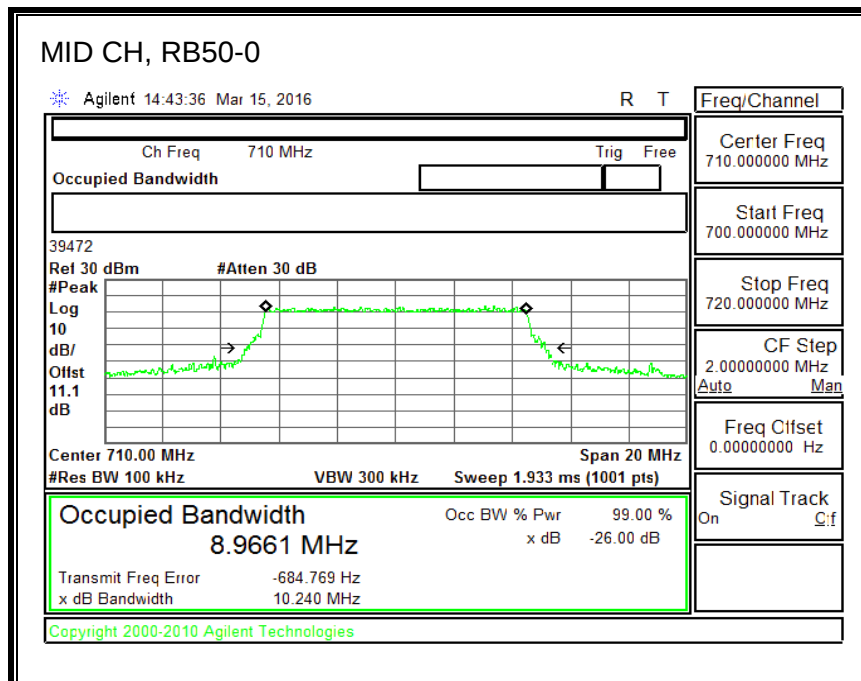
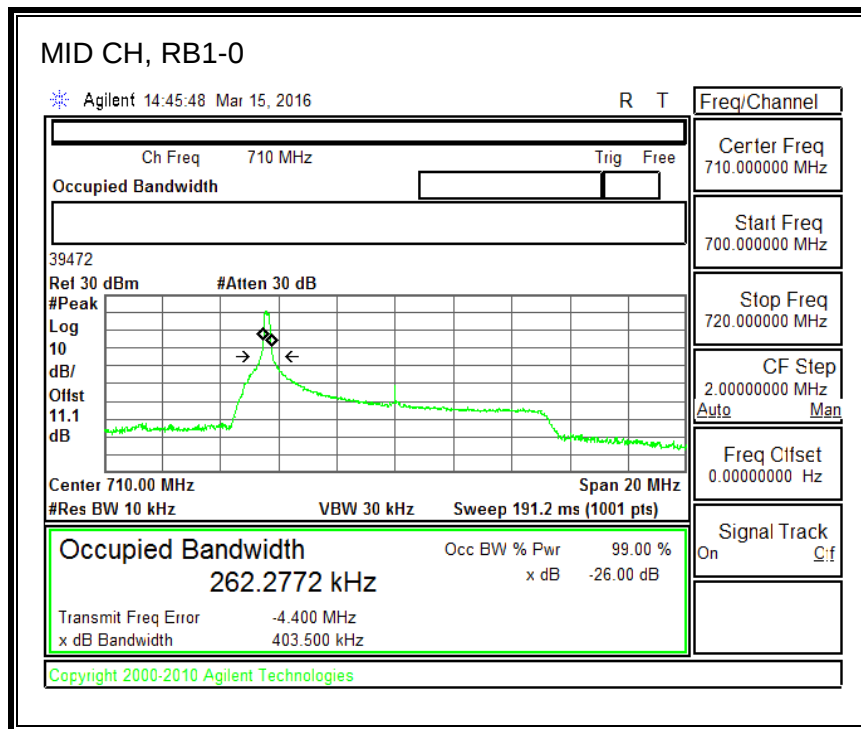
16QAM, (5.0 MHz BAND WIDTH)



QPSK, (10.0 MHz BAND WIDTH)

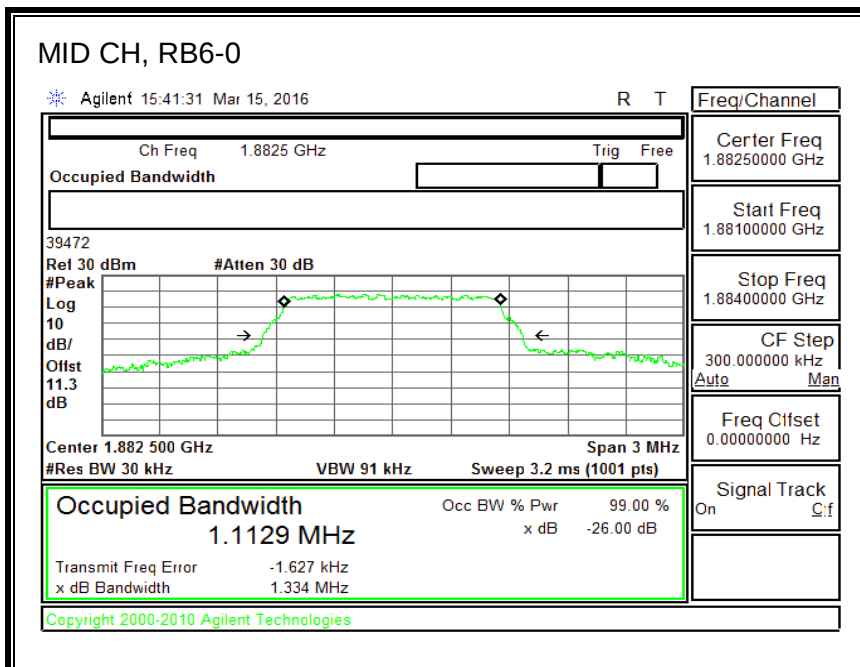
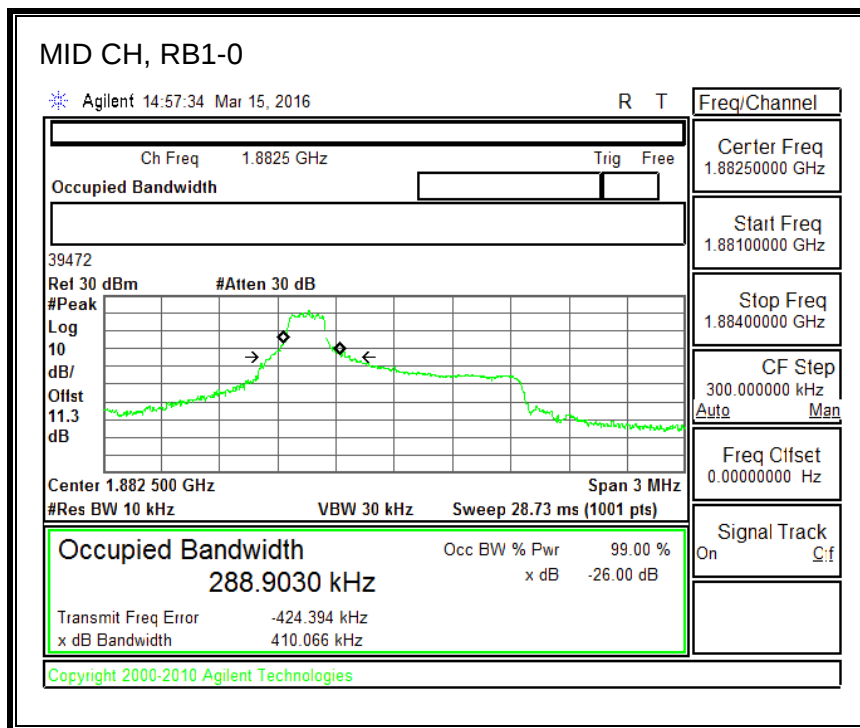


16QAM, (10.0 MHz BAND WIDTH)

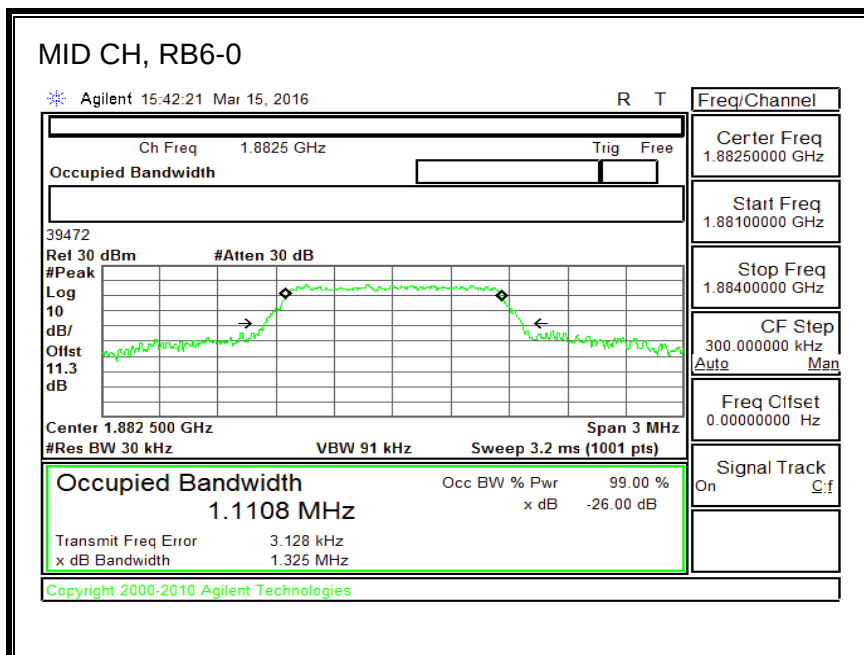
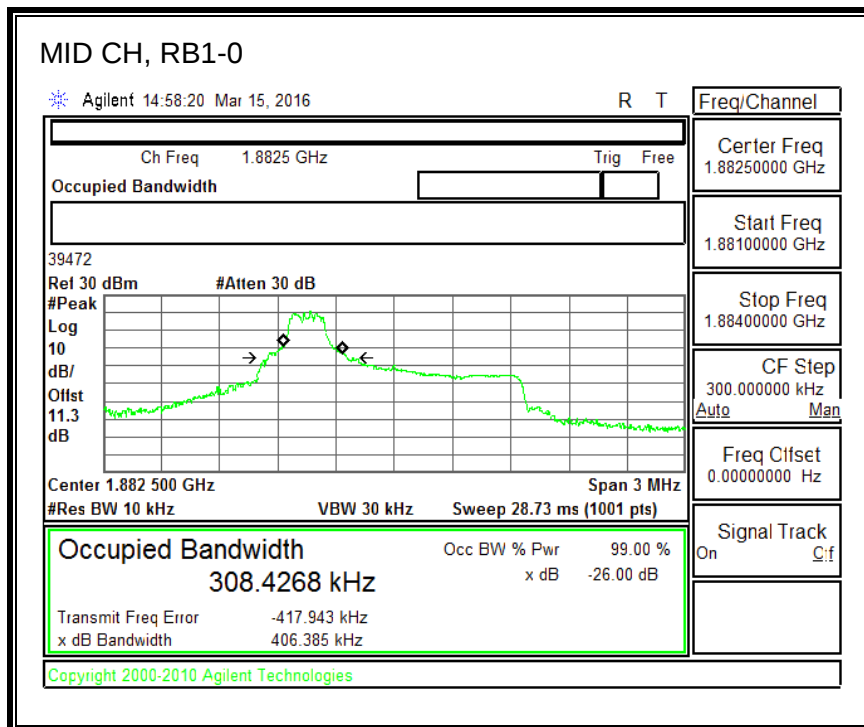


8.1.8. LTE BAND 25

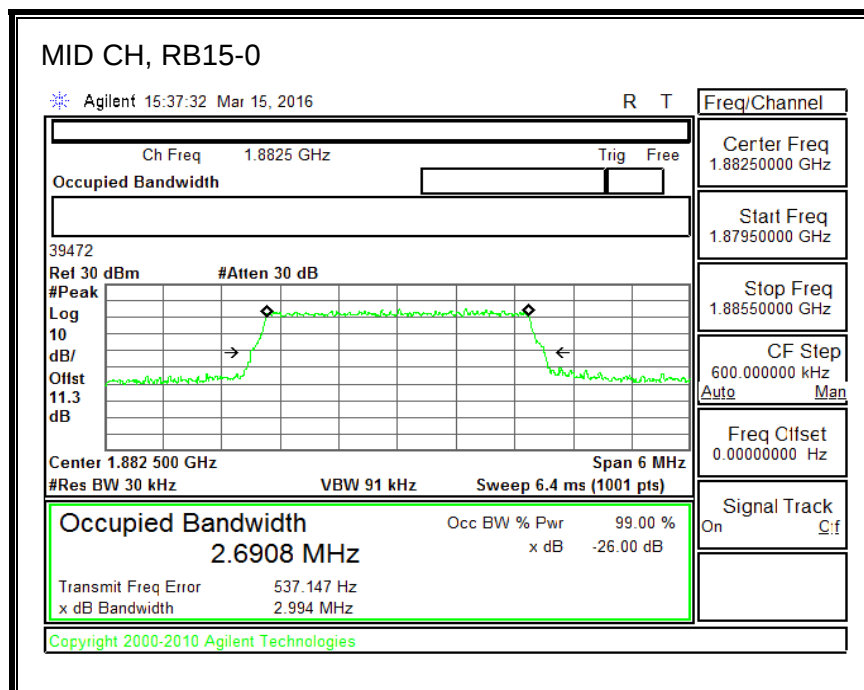
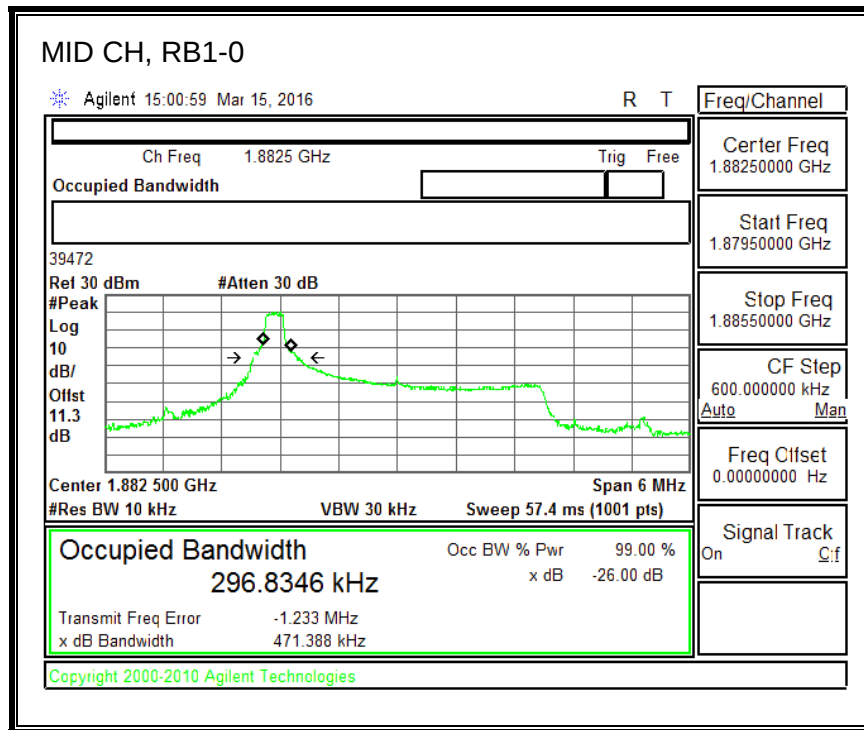
QPSK, (1.4 MHz BAND WIDTH)



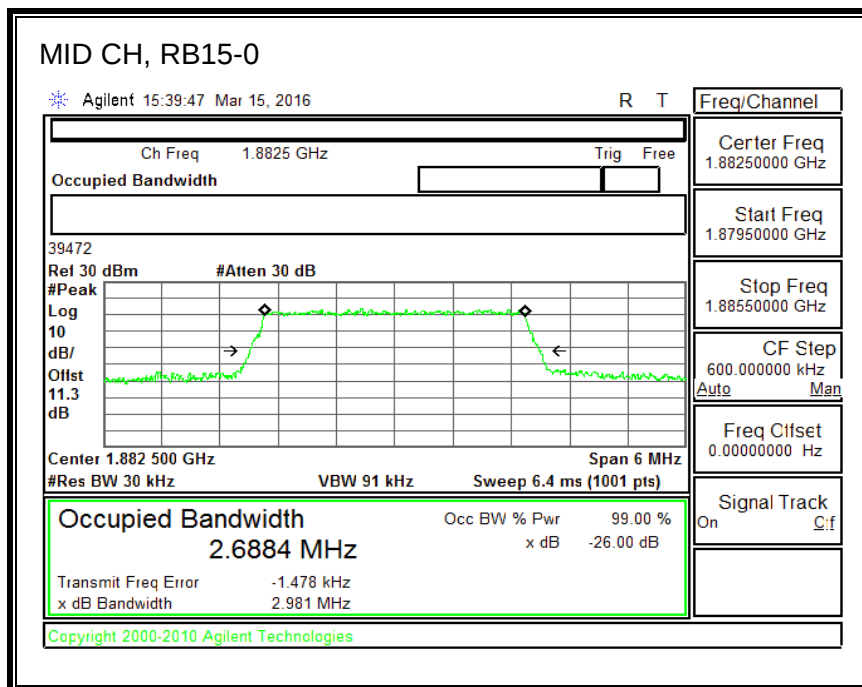
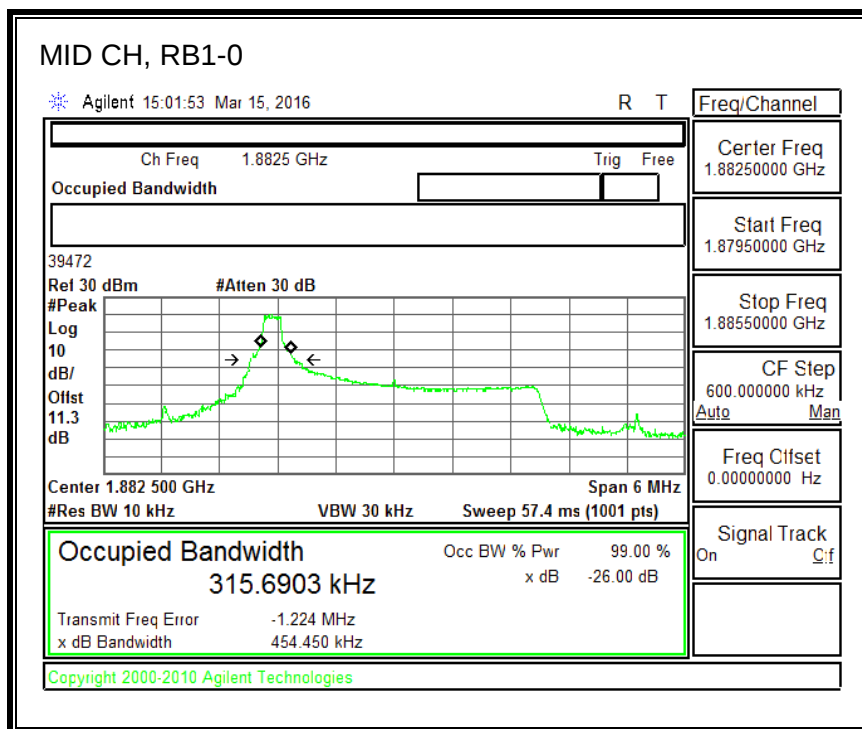
16QAM, (1.4 MHz BAND WIDTH)



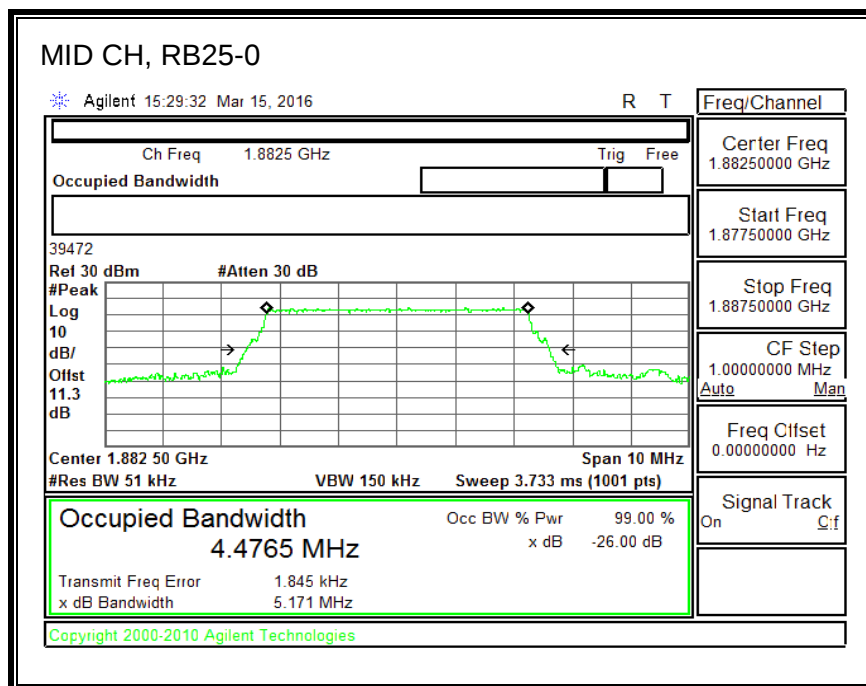
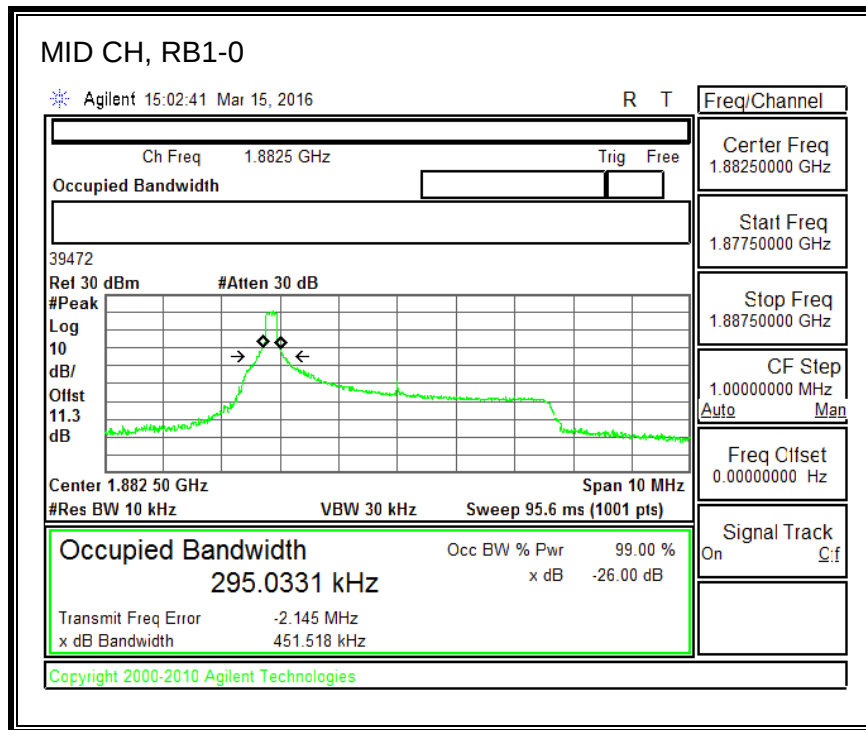
QPSK, (3.0 MHz BAND WIDTH)



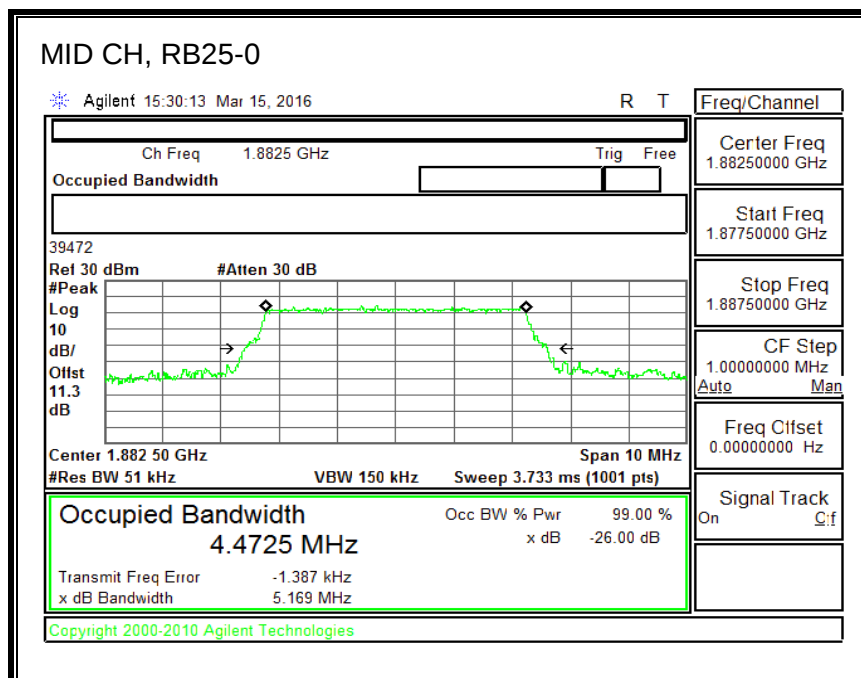
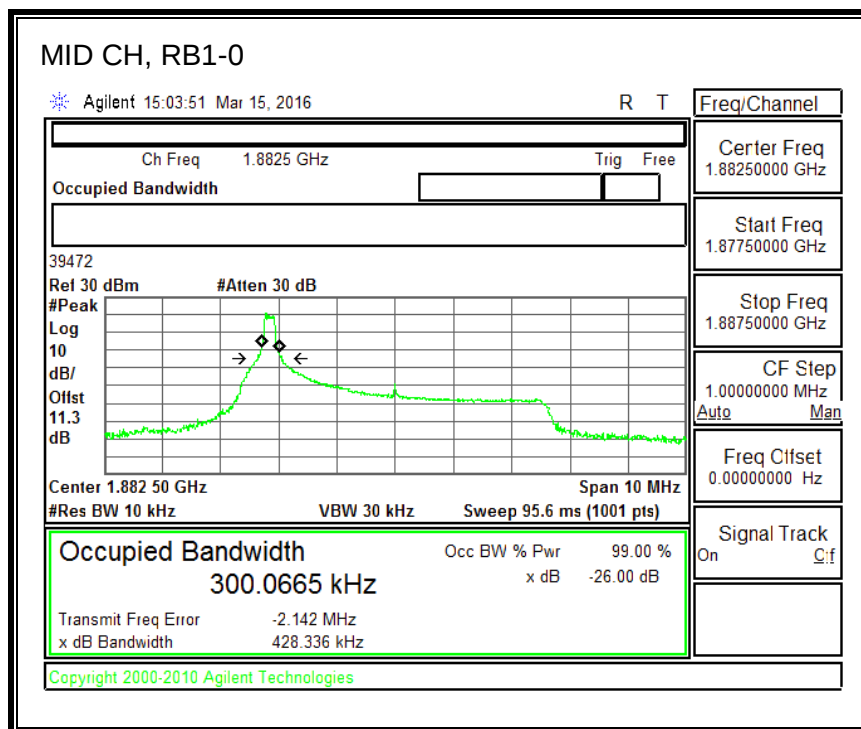
16QAM, (3.0 MHz BAND WIDTH)



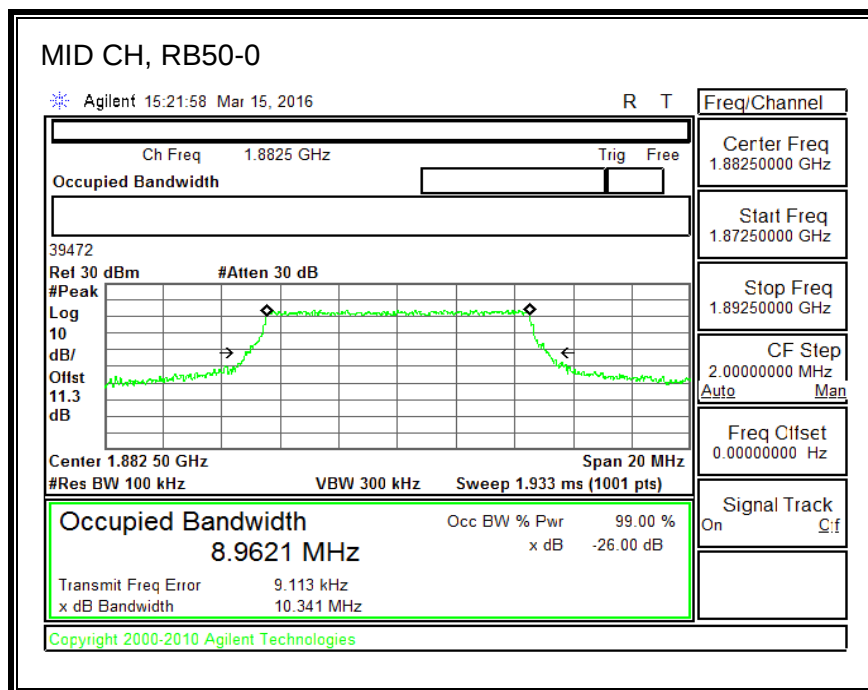
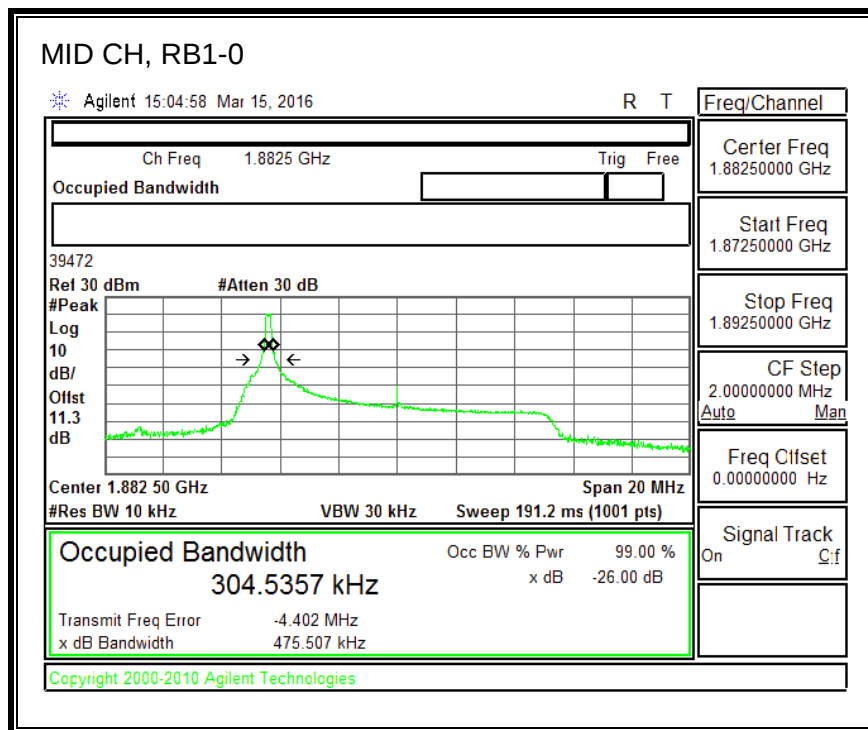
QPSK, (5.0 MHz BAND WIDTH)



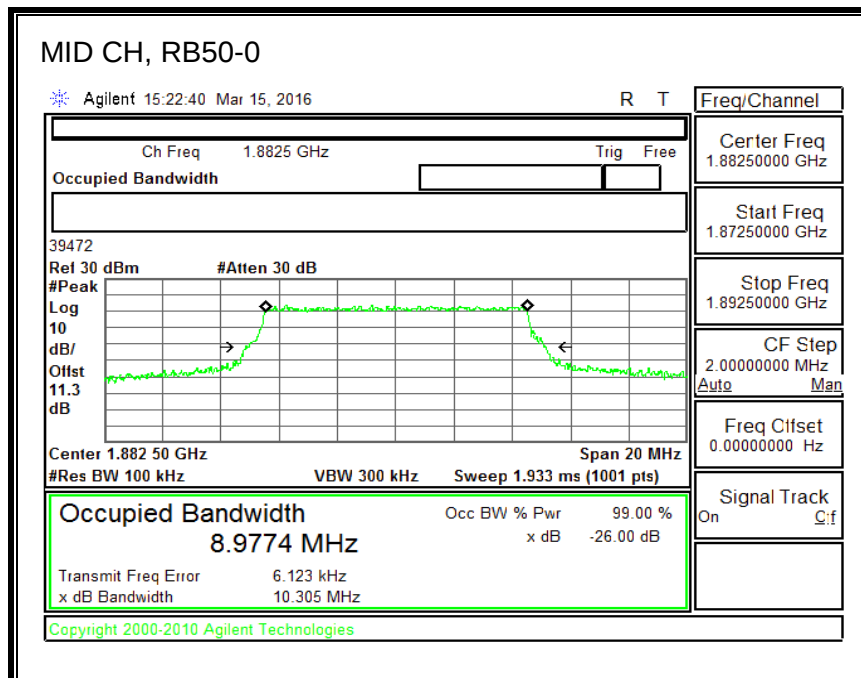
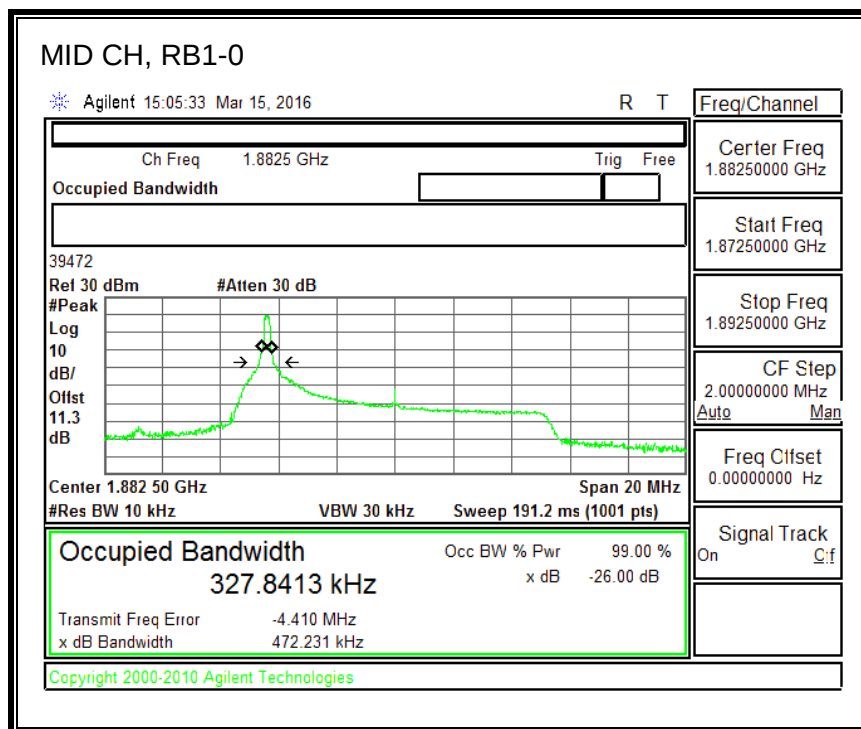
16QAM, (5.0 MHz BAND WIDTH)



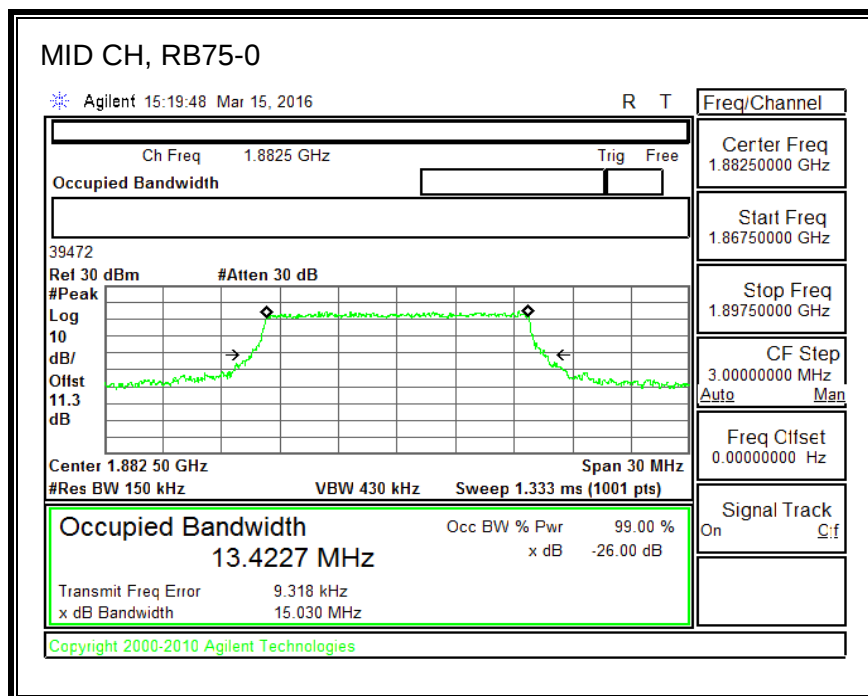
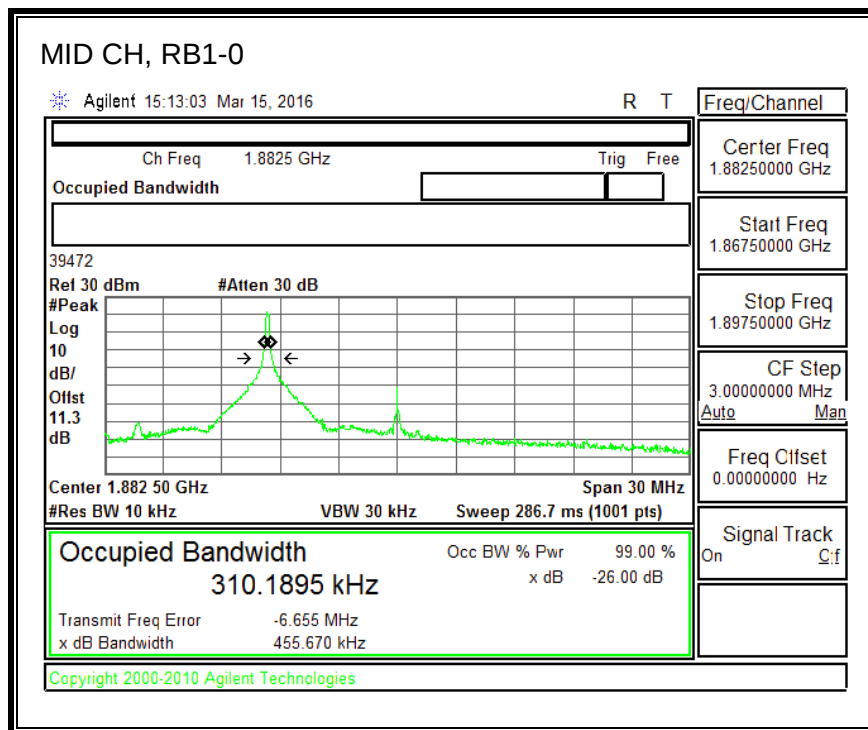
QPSK, (10.0 MHz BAND WIDTH)



16QAM, (10.0 MHz BAND WIDTH)



QPSK, (15.0 MHz BAND WIDTH)



16QAM, (15.0 MHz BAND WIDTH)

