OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average	Peak
Dandwidth	OL Charline	rrequericy	Wiode	Size	Offset	(dBm)	(dBm)
				1	0	17.8	21.1
				1	12	17.4	20.7
				1	24	17.2	20.6
			QPSK	12	0	16.7	21.0
				12	6	16.4	20.7
				12	11	16.5	20.9
5.0	00005	4050.5		25	0	16.7	21.7
5.0	26065	1852.5		1	0	16.7	21.0
			1	12	16.6	20.8	
				1	24	16.5	20.8
		16QAM	12	0	15.8	21.1	
			12	6	15.8	21.0	
			12	11	15.7	21.0	
				25	0	15.7	21.6
				1	0	17.4	20.7
				1	12	17.8	21.0
		5 1882.5		1	24	18.0	21.4
			QPSK	12	0	16.7	21.1
			16QAM	12	6	16.8	21.2
	26365			12	11	16.9	21.4
5.0				25	0	16.8	21.9
5.0				1	0	16.7	20.9
				1	12	17.0	21.1
				1	24	16.7	21.2
				12	0	15.9	21.1
				12	6	16.0	21.2
				12	11	15.7	21.1
				25	0	15.9	21.5
				1	0	18.2	22.0
				1	12	17.6	20.8
				1	24	16.7	20.0
			QPSK	12	0	16.8	21.4
				12	6	16.8	21.1
				12	11	16.6	20.9
5.0	26665	1912.5		25	0	16.6	21.8
5.0	20003	1912.0		1	0	17.3	22.0
				1	12	17.2	21.0
				1	24	16.3	20.2
			16QAM	12	0	15.7	21.6
				12	6	15.8	21.4
			12	11	15.5	21.0	
				25	0	15.8	21.7

Bandwidth	UL Channel	Eroguenov	Mode	RB	RB	Average	Peak
Dariuwiutii	OL Charline	Frequency	iviode	Size	Offset	(dBm)	(dBm)
				1	0	17.8	21.1
				1	24	17.6	20.9
				1	49	17.7	21.6
			QPSK	25	0	16.7	21.1
				25	12	16.6	21.0
				25	24	16.9	21.5
40.0	00000	4055.0		50	0	16.9	22.1
10.0	26090	1855.0		1	0	16.8	21.0
			1	24	16.8	20.9	
				1	49	17.2	21.7
			16QAM	25	0	15.8	21.1
			25	12	15.9	21.2	
			25	24	15.9	21.5	
				50	0	15.9	21.6
				1	0	17.4	20.7
				1	24	17.8	21.1
				1	49	17.9	22.0
	26365	26365 1882.5	QPSK	25	0	16.8	21.1
			QI SIX	25	12	17.0	21.4
				25	24	16.9	21.8
40.0				50	0	16.9	21.8
10.0			16QAM	1	0	17.0	21.0
				1	24	17.2	21.2
				1	49	16.9	21.8
				25	0	16.0	21.2
				25	12	16.0	21.4
				25	24	15.6	21.4
				50	0	15.9	22.0
				1	0	18.1	21.4
				1	24	18.0	22.0
				1	49	16.8	20.1
			QPSK	25	0	16.8	21.7
				25	12	16.9	21.8
				25	24	17.0	21.7
40.0	20040	1010.0		50	0	16.8	21.8
10.0	26640	1910.0		1	0	17.2	21.3
				1	24	17.1	22.2
				1	49	16.2	20.3
			16QAM	25	0	16.0	21.8
				25	12	16.1	21.7
				25	24	15.8	21.5
				50	0	16.0	22.4

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OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average	Peak
Dandwidth	OL Chariner	rrequericy	Wiode	Size	Offset	(dBm)	(dBm)
				1	0	17.8	21.1
				1	37	17.9	21.4
				1	74	17.7	22.2
			QPSK	36	0	16.7	21.2
				36	16	16.8	21.4
				36	35	17.0	22.0
45.0	00445	4057.5		75	0	17.0	22.5
15.0	26115	1857.5		1	0	16.9	21.0
				1	37	17.2	21.4
			1	74	17.3	22.6	
		16-QAM	36	0	15.9	21.2	
				36	16	16.1	21.6
				36	35	15.9	21.9
				75	0	16.0	22.2
				1	0	17.6	20.9
				1	37	17.8	21.1
		1882.5		1	74	18.0	22.4
			QPSK	36	0	16.8	21.2
				36	16	17.0	21.4
			16-QAM	36	35	17.1	21.9
15.0	26365			75	0	17.0	22.3
15.0	20303			1	0	17.2	21.2
				1	37	17.2	21.3
				1	74	17.0	22.2
				36	0	16.0	21.3
				36	16	16.1	21.4
				36	35	15.9	21.6
				75	0	16.1	22.3
	-			1	0	18.1	21.3
				1	37	17.9	21.8
				1	74	16.9	20.1
			QPSK	36	0	17.0	21.6
				36	16	16.9	21.8
				36	35	17.0	21.8
15.0	26615	1907.5		75	0	16.8	22.3
13.0	20010	1557.5		1	0	16.9	21.3
				1	37	17.0	21.9
				1	74	16.1	20.4
			16-QAM	36	0	16.0	21.7
				36	16	16.0	21.9
			36	35	15.8	21.7	
				75	0	15.9	22.4

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average	Peak
Dandwidth	OL Charline	rrequericy	IVIOGE	Size	Offset	(dBm)	(dBm)
				1	0	17.6	20.9
				1	49	17.9	21.8
				1	99	17.7	22.0
			QPSK	50	0	16.8	21.4
				50	24	16.9	21.7
				50	49	16.9	21.9
20.0	26140	1960.0		100	0	17.0	22.2
20.0	26140	1860.0		1	0	16.6	20.8
			1	49	17.1	21.8	
			1	99	16.9	22.2	
		16-QAM	50	0	15.9	21.4	
			50	24	16.0	21.8	
				50	49	15.9	21.8
				100	0	16.0	22.0
				1	0	17.7	21.2
				1	49	17.7	20.9
				1	99	18.0	22.4
	26365	1882.5	QPSK	50	0	16.7	21.2
				50	24	17.0	21.5
				50	49	17.1	22.1
20.0				100	0	17.1	22.1
20.0			16-QAM	1	0	17.1	21.4
				1	49	17.0	21.1
				1	99	16.9	22.4
				50	0	15.8	21.3
				50	24	16.1	21.5
				50	49	15.8	21.8
				100	0	16.1	22.1
				1	0	18.0	22.3
				1	49	17.7	21.0
				1	99	16.8	20.0
			QPSK	50	0	17.0	21.7
				50	24	16.9	21.8
				50	49	17.0	21.9
20.0	26590	1905.0		100	0	17.0	22.4
20.0	20090	1905.0		1	0	17.0	22.1
				1	49	17.0	21.0
				1	99	16.6	20.3
			16-QAM	50	0	16.0	21.7
				50	24	16.0	21.8
				50	49	15.7	21.8
				100	0	16.1	22.3

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7.4.9. LTE BAND 26

OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

D 1 : 141		_	NA 110	RB	RB	Average	Peak
Bandwidth	UL Channel	Frequency	Modulation	Size	Offset	(dBm)	(dBm)
				1	0	21.9	26.8
				1	2	21.8	26.7
				1	5	21.6	26.6
			QPSK	3	0	21.8	26.8
				3	1	21.6	26.7
				3	2	21.8	26.9
1.4	26697	814.7		6	0	20.7	26.2
1.4	20091	014.7		1	0	20.7	26.4
				1	2	20.8	26.6
				1	5	20.8	26.6
			16QAM	3	0	20.7	26.8
				3	1	20.7	26.8
				3	2	20.7	26.8
				6	0	19.8	26.4
				1	0	21.6	26.4
				1	2	21.7	26.3
	26740			1	5	21.4	24.8
		819.0	QPSK	3	0	21.7	26.8
				3	1	21.7	26.8
			16QAM	3	2	21.8	26.9
1.4				6	0	20.7	26.0
1.4				1	0	21.0	26.5
				1	2	21.1	26.5
				1	5	20.4	24.7
				3	0	20.6	25.1
				3	1	20.6	25.1
				3	2	20.4	24.9
				6	0	19.8	26.2
				1	0	21.8	26.8
				1	2	21.7	26.6
				1	5	21.6	26.6
			QPSK	3	0	21.6	26.8
				3	1	21.7	26.9
				3	2	21.8	27.0
1.4	26783	823.3		6	0	20.4	26.1
1.4	20700	023.3		1	0	20.9	26.8
				1	2	20.9	26.6
				1	5	20.8	26.8
			16QAM	3	0	20.6	26.8
				3	1	20.6	26.9
				3	2	20.5	26.7
				6	0	19.7	26.3

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OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

D 1 1 111		_		RB	RB	Average	Peak
Bandwidth	UL Channel	Frequency	Modulation	Size	Offset	(dBm)	(dBm)
				1	0	21.7	26.6
				1	7	21.8	26.6
				1	14	21.6	26.6
			QPSK	8	0	20.7	25.9
				8	4	20.6	25.7
				8	7	20.7	25.9
3.0	26705	815.5		15	0	20.6	26.2
3.0	26705	615.5		1	0	20.9	26.4
			1	7	21.1	26.5	
			1	14	20.9	26.4	
		16QAM	8	0	19.8	25.5	
			8	4	19.9	25.6	
				8	7	19.8	25.6
				15	0	19.7	26.1
				1	0	21.5	24.9
				1	7	21.8	26.4
	26740			1	14	21.8	26.5
		819.0	QPSK	8	0	20.7	25.2
				8	4	20.8	25.4
				8	7	20.8	25.8
3.0				15	0	20.7	25.7
3.0				1	0	21.0	25.3
				1	7	21.1	26.3
				1	14	20.9	26.2
			16QAM	8	0	19.8	25.2
				8	4	19.9	25.2
				8	7	19.7	25.0
				15	0	19.8	25.9
				1	0	21.9	26.7
				1	7	21.8	26.6
				1	14	21.7	26.5
			QPSK	8	0	20.7	25.9
				8	4	20.6	25.7
				8	7	20.7	25.9
3.0	26775	822.5		15	0	20.5	25.9
3.3		33		1	0	20.9	26.5
				1	7	21.1	26.8
			400	1	14	20.9	26.7
			16QAM	8	0	19.8	25.8
				8	4	19.8	25.7
				8	7	19.6	25.5
				15	0	19.7	26.1

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OUTPUT POWER FOR LTE BAND 26 (5.0 MH)

Bandwidth	UL Channel	Fraguenav	Modulation	RB	RB	Average	Peak
Danuwiuin	OL Channel	Frequency	Modulation	Size	Offset	(dBm)	(dBm)
				1	0	21.7	26.5
				1	12	21.8	26.3
				1	24	21.5	26.2
			QPSK	12	0	20.6	25.6
				12	6	20.5	25.4
				12	11	20.7	25.6
5.0	26715	816.5		25	0	20.6	26.7
5.0	20/15	010.5		1	0	20.8	26.3
			1	12	20.7	25.7	
				1	24	20.8	26.3
			16QAM	12	0	19.7	25.5
				12	6	19.8	25.0
				12	11	19.8	25.0
				25	0	19.7	25.5
				1	0	21.4	25.4
				1	12	21.6	26.2
				1	24	21.6	26.4
	26740	819.0	QPSK	12	0	20.6	25.0
				12	6	20.7	25.5
				12	11	20.8	25.8
5.0				25	0	20.6	26.6
5.0			16QAM	1	0	21.1	25.6
				1	12	21.0	27.0
				1	24	21.0	26.4
				12	0	19.5	25.0
				12	6	19.6	25.3
				12	11	19.4	25.4
				25	0	19.6	25.9
				1	0	21.7	26.4
				1	12	21.7	26.5
				1	24	21.4	26.4
			QPSK	12	0	20.5	25.6
				12	6	20.6	25.7
				12	11	20.6	25.8
5.0	26765	821.5		25	0	20.4	26.0
5.0	20700	021.0		1	0	20.8	26.4
				11	12	20.9	26.5
				1	24	20.8	26.6
			16QAM	12	0	19.6	25.5
				12	6	19.8	25.6
				12	11	19.4	25.4
				25	0	19.6	26.0

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OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

Bandwidth	UL Channel	Eroguenov	Mode	RB	RB	Average	Peak
Dariuwiutii	OL Charine	Frequency	Mode	Size	Offset	(dBm)	(dBm)
				1	0	21.7	26.4
				1	24	21.8	26.4
				1	49	21.5	26.4
			QPSK	25	0	20.8	25.8
				25	12	20.6	25.6
	26740	819.0		25	24	20.7	25.8
10.0				50	0	20.8	26.6
10.0	20740			1	0	21.0	26.3
				1	24	21.1	26.4
				1	49	21.0	26.4
			16QAM	25	0	19.7	25.0
				25	12	19.8	25.7
				25	24	19.8	25.7
				50	0	19.5	26.3

7.4.10. LTE BAND 41

OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average	Peak
Danawatii	OL Onamici	ricquericy	Mode	Size	Offset	(dBm)	(dBm)
				1	0	21.3	24.5
				1	12	21.3	25.9
				1	24	21.1	25.9
			QPSK	12	0	20.3	25.1
				12	6	20.1	24.9
				12	11	20.3	25.2
5.0	39675	2498.5		25	0	20.3	26.0
5.0	39075	2490.5		1	0	20.1	24.8
				1	12	20.2	26.2
			1	24	20.4	26.2	
		16QAM	12	0	19.2	24.6	
				12	6	19.3	24.8
				12	11	19.3	25.1
				25	0	19.2	25.9
				1	0	21.0	24.6
				1	12	21.2	25.9
		2593.0		1	24	21.3	26.2
	40620		QPSK	12	0	20.2	25.0
				12	6	20.3	25.1
			16QAM	12	11	20.4	25.4
5.0				25	0	20.2	25.9
5.0				1	0	20.2	25.7
				1	12	20.4	26.1
				1	24	20.2	26.0
				12	0	19.2	24.6
				12	6	19.4	25.0
				12	11	19.1	24.9
				25	0	19.0	25.8
				1	0	21.2	24.8
				1	12	21.3	25.9
				1	24	21.2	26.0
			QPSK	12	0	20.1	25.1
				12	6	20.2	25.0
				12	11	20.3	25.3
5.0	41565	2687.5		25	0	20.0	25.9
3.0	41303	2007.3		1	0	20.2	25.2
				1	12	20.2	26.0
				1	24	20.4	26.2
			16QAM	12	0	19.3	24.6
				12	6	19.3	24.8
				12	11	19.1	24.9
				25	0	19.2	26.0

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RB RB Average Peak Bandwidth **UL Channel** Frequency Mode (dBm) Size Offset (dBm) 21.3 26.1 1 0 1 24 21.3 26.0 1 49 20.9 25.9 **QPSK** 25 0 20.3 25.2 25 12 20.1 25.0 25 24 20.2 25.2 50 0 20.3 25.6 10.0 39700 2501.0 1 0 20.4 26.0 1 24 20.6 26.1 1 49 20.4 26.1 16QAM 25 0 19.2 24.6 25 12 19.2 25.1 25 24 19.2 25.2 50 0 19.3 25.7 1 0 21.0 25.8 1 24 21.2 25.9 1 49 21.1 26.1 **QPSK** 25 0 20.2 25.1 12 25 20.3 25.2 25 20.3 24 25.4 50 0 20.3 25.9 10.0 40620 2593.0 1 0 20.5 26.1 1 24 20.7 26.2 1 49 20.3 25.9 16QAM 25 0 19.2 24.6 25 12 19.3 25.1 24 25 19.0 25.0 50 0 19.1 25.8 21.2 1 0 26.0 1 21.3 24 26.0 49 21.0 1 25.9 **QPSK** 25 0 20.1 25.1 25 12 20.2 25.1 25 24 20.2 25.3

16QAM

10.0

41540

2685.0

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FCC ID: BCG-E2944A

50

1

1

1

25

25

25

50

0

0

24

49

0

12

24

0

20.1

20.3

20.6

20.5

19.2

19.2

19.0

19.2

26.0

26.0

26.1

26.2

24.6

25.2

25.0

26.2

Bandwidth	UL Channel	Eroguenov	Mode	RB	RB	Average	Peak
Dandwidth	OL Channel	Frequency	iviode	Size	Offset	(dBm)	(dBm)
				1	0	21.3	25.5
				1	37	21.5	25.3
				1	74	21.4	26.1
			QPSK	36	0	20.3	25.0
				36	16	20.3	25.2
				36	35	20.4	25.4
15.0	39725	2503.5		75	0	20.0	26.3
15.0	39723	2503.5		1	0	20.3	26.1
			1	37	20.3	25.1	
				1	74	20.4	25.5
			16-QAM	36	0	19.3	25.0
			36	16	19.3	25.5	
				36	35	19.4	25.6
				75	0	18.9	25.6
				1	0	21.4	25.6
				1	37	21.4	26.0
	40620			1	74	21.5	26.2
		2593.0	QPSK	36	0	20.3	25.2
				36	16	20.5	25.0
			16-QAM	36	35	20.5	25.1
15.0				75	0	20.3	26.1
15.0				1	0	20.3	25.2
				1	37	20.4	25.0
				1	74	20.4	25.1
				36	0	19.3	25.1
				36	16	19.4	26.2
				36	35	19.4	26.3
				75	0	19.2	26.4
				1	0	21.3	25.5
				1	37	21.3	25.7
				1	74	21.4	26.2
			QPSK	36	0	20.4	25.5
				36	16	20.3	25.3
				36	35	20.4	25.6
15.0	41515	2682.5		75	0	20.2	26.0
13.0	41313	2002.3		1	0	20.3	25.2
				1	37	20.2	25.6
				1	74	20.3	26.2
			16-QAM	36	0	19.3	25.6
				36	16	19.3	25.7
				36	35	19.4	25.9
				75	0	19.2	26.1

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OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

Bandwidth	UL Channel	Frequency	Mode	RB	RB	Average	Peak
Baridwidtii	OL Channel	Frequency	iviode	Size	Offset	(dBm)	(dBm)
				1	0	21.4	24.4
				1	49	21.4	24.6
				1	99	21.3	25.2
			QPSK	50	0	20.3	24.3
				50	24	20.2	24.7
				50	49	20.2	25.5
20.0	39750	2506.0		100	0	20.0	26.0
20.0	39750	2506.0		1	0	20.3	25.1
			1	49	20.4	25.6	
			1	99	20.3	25.9	
		16-QAM	50	0	20.3	25.3	
			50	24	19.1	25.6	
				50	49	19.1	26.0
				100	0	19.0	26.1
				1	0	21.4	25.7
				1	49	21.3	25.6
		2593.0		1	99	21.3	25.9
			QPSK	50	0	20.3	25.3
				50	24	20.2	25.6
				50	49	20.4	25.4
20.0	40620			100	0	20.1	26.0
20.0	40620		16-QAM	1	0	20.4	25.9
				1	49	20.3	25.7
				1	99	20.3	25.7
				50	0	19.3	25.1
				50	24	19.2	25.0
				50	49	19.4	25.1
				100	0	19.0	25.6
				1	0	21.3	25.2
				1	49	21.4	25.2
				1	99	21.4	25.4
			QPSK	50	0	20.1	25.0
				50	24	20.3	25.6
				50	49	20.3	25.3
20.0	41490	2680.0		100	0	20.1	25.7
20.0	41490	2000.0		1	0	20.3	25.1
				1	49	20.4	25.1
				1	99	20.3	25.9
			16-QAM	50	0	19.1	25.4
				50	24	19.3	25.2
				50	49	19.3	25.3
				100	0	19.1	25.7

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8. CONDUCTED TEST RESULTS

8.1.OCCUPIED BANDWIDTH (MODEL: A1634)

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 30
- LTE Band 41

RESULTS

DATE: SEPTEMBER 28, 2015

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	1880	1.0824	1.176
	1.4 MHz BAND 16QAM	6/0	1880	1.0739	1.133
	3.0 MHz BAND QPSK	15/0	1880	2.6585	2.776
	3.0 MHz BAND 16QAM	15/0	1880	2.6572	2.803
	5.0 MHz BAND QPSK	25/0	1880	4.4802	4.587
LTE DANID 2	5.0 MHz BAND 16QAM	25/0	1880	4.4165	4.632
LTE BAND 2	10.0 MHz BAND QPSK	50/0	1880	8.8538	9.439
	10.0 MHz BAND 16QAM	50/0	1880	8.8589	9.244
	15.0 MHz BAND QPSK	75/0	1880	13.4183	13.815
	15.0 MHz BAND 16QAM	75/0	1880	13.3603	13.698
	20.0 MHz BAND QPSK	100/0	1880	17.6541	18.268
	20.0 MHz BAND 16QAM	100/0	1880	17.9137	18.38

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	1732.5	1.0814	1.195
	1.4 MHz BAND 16QAM	6/0	1732.5	1.074	1.146
	3.0 MHz BAND QPSK	15/0	1732.5	2.6617	2.876
	3.0 MHz BAND 16QAM	15/0	1732.5	2.6778	2.865
	5.0 MHz BAND QPSK	25/0	1732.5	4.4293	4.633
LTE DANID 4	5.0 MHz BAND 16QAM	25/0	1732.5	4.4338	4.635
LTE BAND 4	10.0 MHz BAND QPSK	50/0	1732.5	8.9326	9.438
	10.0 MHz BAND 16QAM	50/0	1732.5	8.8179	9.162
	15.0 MHz BAND QPSK	75/0	1732.5	13.3939	14.17
	15.0 MHz BAND 16QAM	75/0	1732.5	13.3165	13.873
	20.0 MHz BAND QPSK	100/0	1732.5	17.7644	18.347
	20.0 MHz BAND 16QAM	100/0	1732.5	17.5898	18.423

REPORT NO: 15U20162-E9V3	DATE: SEPTEMBER 28, 2015
EUT: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS	FCC ID: BCG-E2944A

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	836.5	1.0845	1.157
	1.4 MHz BAND 16QAM	6/0	836.5	1.0707	1.16
	3.0 MHz BAND QPSK	15/0	836.5	2.6753	2.860
LTE BAND 5	3.0 MHz BAND 16QAM	15/0	836.5	2.6509	2.821
LIE BAND 5	5.0 MHz BAND QPSK	25/0	836.5	4.4419	4.692
	5.0 MHz BAND 16QAM	25/0	836.5	4.4533	4.663
	10.0 MHz BAND QPSK	50/0	836.5	8.8923	9.229
	10.0 MHz BAND 16QAM	50/0	836.5	8.8465	9.185

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	5.0 MHz BAND QPSK	25/0	2535	4.4404	4.602
	5.0 MHz BAND 16QAM	25/0	2535	4.4460	4.728
	10.0 MHz BAND QPSK	50/0	2535	8.9195	9.195
	10.0 MHz BAND 16QAM	50/0	2535	8.8478	9.152
LTE BAND 7	15.0 MHz BAND QPSK	75/0	2535	13.2974	13.875
	15.0 MHz BAND 16QAM	75/0	2535	13.3457	13.786
	20.0 MHz BAND QPSK	100/0	2535	17.7349	18.342
	20.0 MHz BAND 16QAM	100/0	2535	17.7742	18.373

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	707.5	1.0809	1.157
	1.4 MHz BAND 16QAM	6/0	707.5	1.0674	1.135
	3.0 MHz BAND QPSK	15/0	707.5	2.6644	2.789
LTE BAND 12	3.0 MHz BAND 16QAM	15/0	707.5	2.646	2.807
LIE BAND 12	5.0 MHz BAND QPSK	25/0	707.5	4.452	4.573
	5.0 MHz BAND 16QAM	25/0	707.5	4.4375	4.605
	10.0 MHz BAND QPSK	50/0	707.5	8.9068	9.244
	10.0 MHz BAND 16QAM	50/0	707.5	8.8567	9.216

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 13	5.0 MHz BAND QPSK	25/0	782	4.4435	4.744
	5.0 MHz BAND 16QAM	25/0	782	4.4497	4.623
	10.0 MHz BAND QPSK	50/0	782	8.8657	9.222
	10.0 MHz BAND 16QAM	50/0	782	8.8336	9.165

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 17	5.0 MHz BAND QPSK	25/0	710	4.4589	4.676
	5.0 MHz BAND 16QAM	25/0	710	4.4409	4.642
	10.0 MHz BAND QPSK	50/0	710	8.8853	9.262
	10.0 MHz BAND 16QAM	50/0	710	8.8908	9.315

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	1882.5	1.0924	1.176
	1.4 MHz BAND 16QAM	6/0	1882.5	1.072	1.156
	3.0 MHz BAND QPSK	15/0	1882.5	2.6721	2.79
	3.0 MHz BAND 16QAM	15/0	1882.5	2.663	2.877
	5.0 MHz BAND QPSK	25/0	1882.5	4.4142	4.574
LTE DANID 25	5.0 MHz BAND 16QAM	25/0	1882.5	4.4506	4.609
LTE BAND 25	10.0 MHz BAND QPSK	50/0	1882.5	8.8522	9.214
	10.0 MHz BAND 16QAM	50/0	1882.5	8.8376	9.307
	15.0 MHz BAND QPSK	75/0	1882.5	13.3642	13.924
	15.0 MHz BAND 16QAM	75/0	1882.5	13.3518	13.768
	20.0 MHz BAND QPSK	100/0	1882.5	17.7783	18.278
	20.0 MHz BAND 16QAM	100/0	1882.5	17.8102	18.362

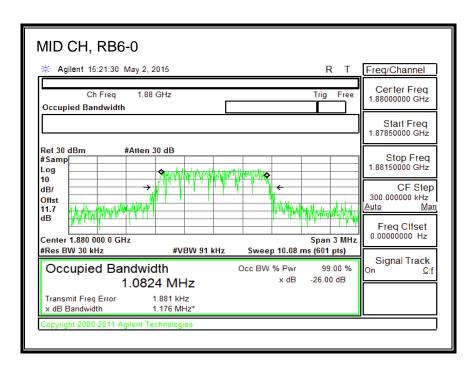
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	1.4 MHz BAND QPSK	6/0	819	1.0685	1.196
	1.4 MHz BAND 16QAM	6/0	819	1.0861	1.142
	3.0 MHz BAND QPSK	15/0	819	2.6858	2.783
LTE BAND 26	3.0 MHz BAND 16QAM	15/0	819	2.6693	2.777
LIE BAND 26	5.0 MHz BAND QPSK	25/0	819	4.4558	4.686
	5.0 MHz BAND 16QAM	25/0	819	4.4514	4.67
	10.0 MHz BAND QPSK	50/0	819	8.9442	9.171
	10.0 MHz BAND 16QAM	50/0	819	8.9326	9.441

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 30	5.0 MHz BAND QPSK	25/0	2310	4.4538	4.608
	5.0 MHz BAND 16QAM	25/0	2310	4.4081	4.699
	10.0 MHz BAND QPSK	50/0	2310	8.9124	9.219
	10.0 MHz BAND 16QAM	50/0	2310	8.9352	9.238

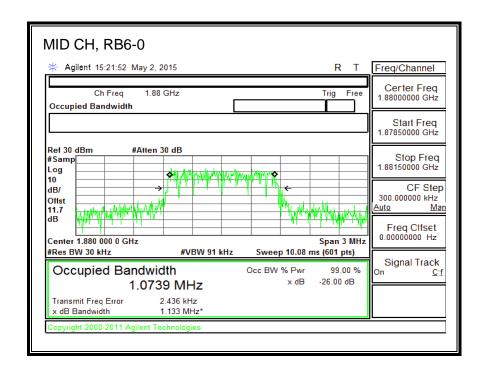
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
	5.0 MHz BAND QPSK	25/0	2593	4.4287	4.742
	5.0 MHz BAND 16QAM	25/0	2593	4.4422	4.793
	10.0 MHz BAND QPSK	50/0	2593	8.7697	9.383
LTE DANID 41	10.0 MHz BAND 16QAM	50/0	2593	8.952	9.442
LTE BAND 41	15.0 MHz BAND QPSK	75/0	2593	13.3114	13.866
	15.0 MHz BAND 16QAM	75/0	2593	13.3467	13.892
	20.0 MHz BAND QPSK	100/0	2593	17.6018	18.39
	20.0 MHz BAND 16QAM	100/0	2593	17.8433	18.96

8.1.1. LTE BAND 2

QPSK, (1.4 MHz BAND WIDTH)

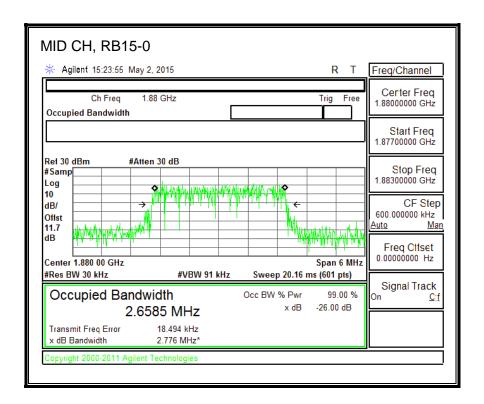


16QAM, (1.4 MHz BAND WIDTH)

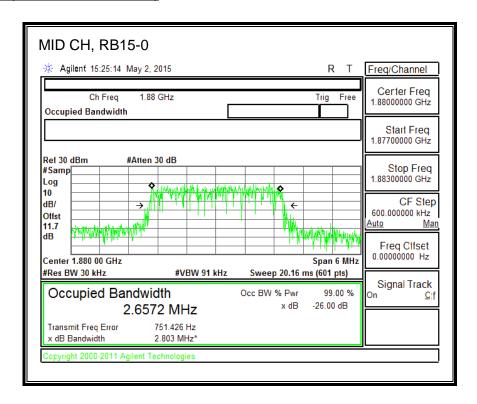


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QPSK, (3.0 MHz BAND WIDTH)

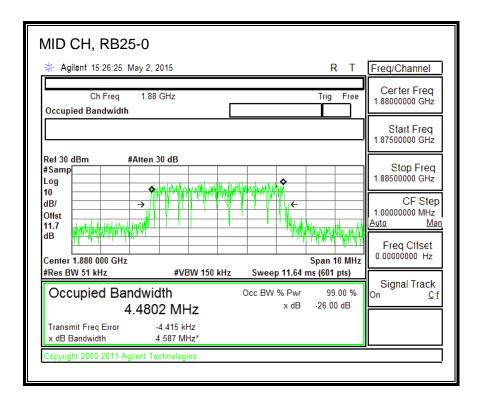


16QAM, (3.0 MHz BAND WIDTH)

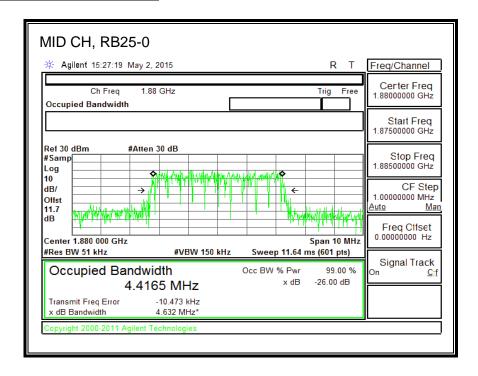


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QPSK, (5.0 MHz BAND WIDTH)

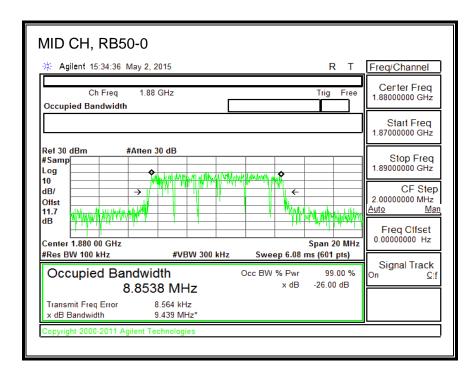


16QAM, (5.0 MHz BAND WIDTH)

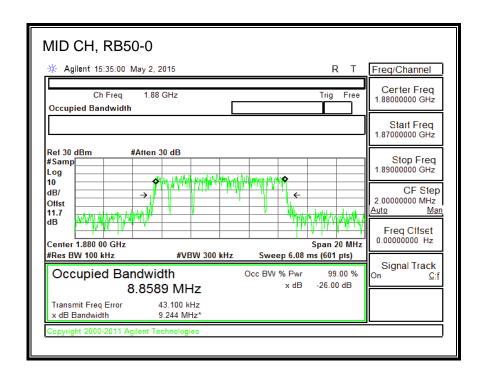


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QPSK, (10.0 MHz BAND WIDTH)

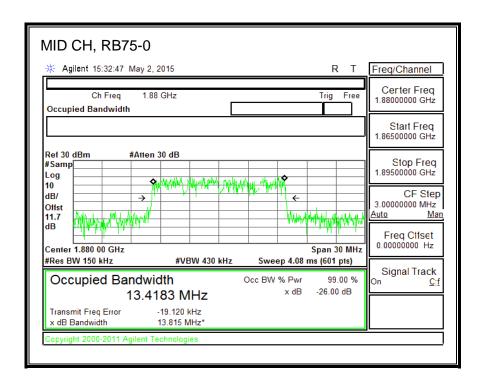


16QAM, (10.0 MHz BAND WIDTH)

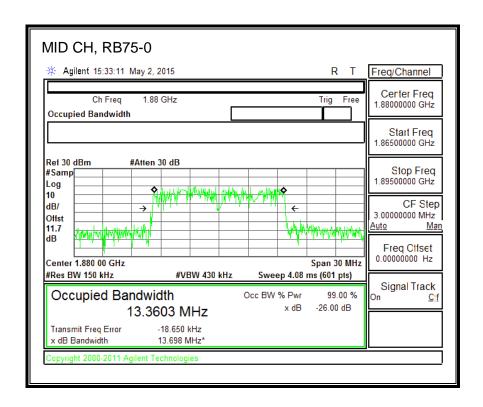


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QPSK, (15.0 MHz BAND WIDTH)

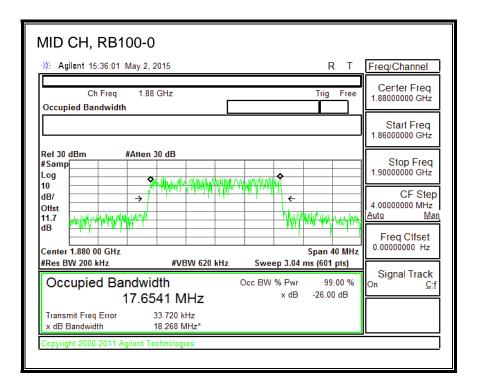


16QAM, (15.0 MHz BAND WIDTH)

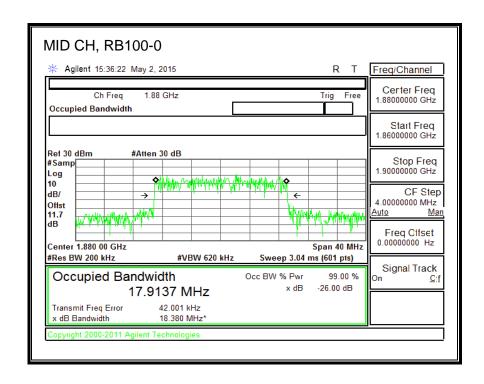


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QPSK, (20.0 MHz BAND WIDTH)



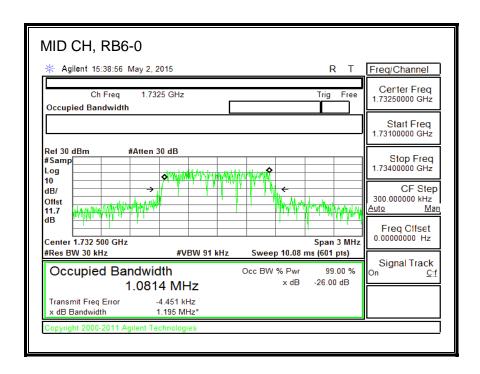
16QAM, (20.0 MHz BAND WIDTH)



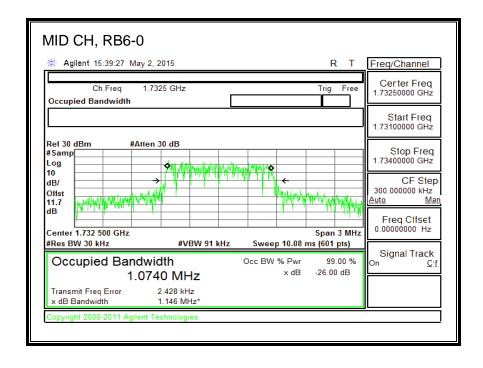
DATE: SEPTEMBER 28, 2015

8.1.2. LTE BAND 4

QPSK, (1.4 MHz BAND WIDTH)

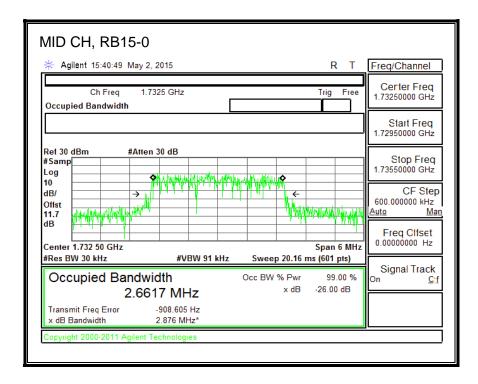


16QAM, (1.4 MHz BAND WIDTH)

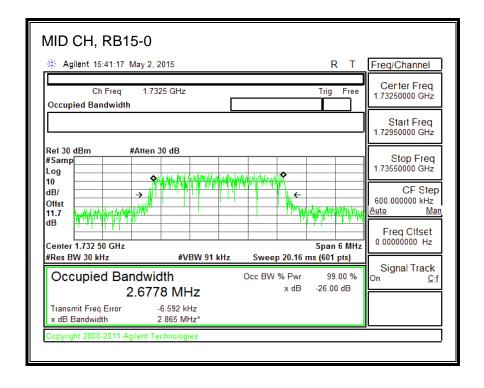


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QPSK, (3.0 MHz BAND WIDTH)

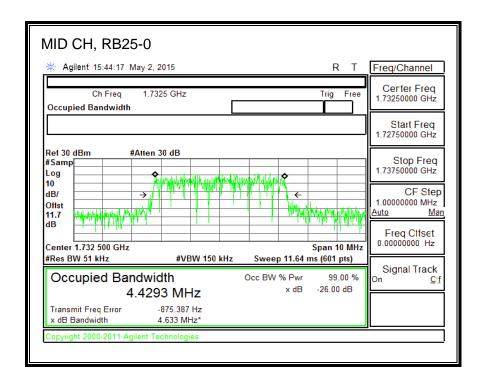


16QAM, (3.0 MHz BAND WIDTH)

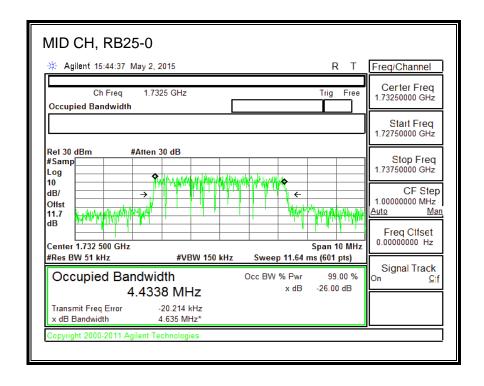


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QPSK, (5.0 MHz BAND WIDTH)

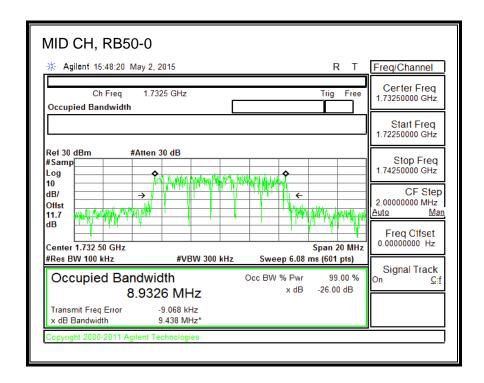


16QAM, (5.0 MHz BAND WIDTH)

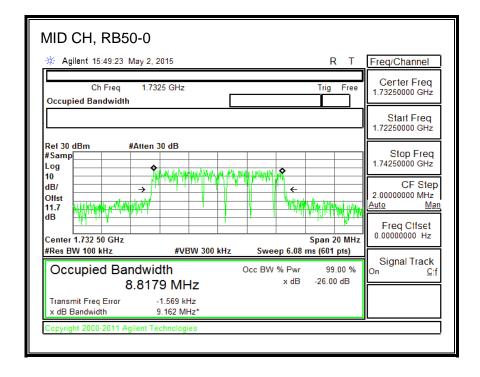


DATE: SEPTEMBER 28, 2015

QPSK, (10.0 MHz BAND WIDTH)

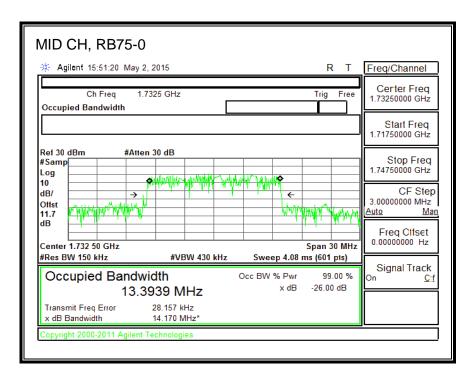


16QAM, (10.0 MHz BAND WIDTH)

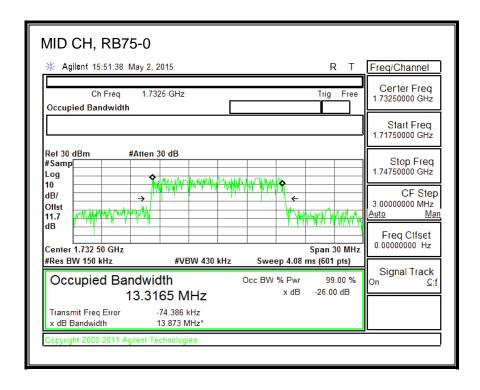


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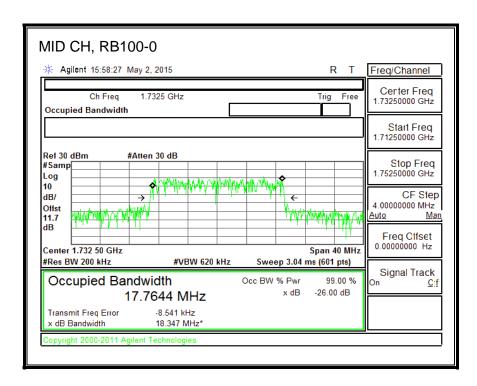
QPSK, (15.0 MHz BAND WIDTH)



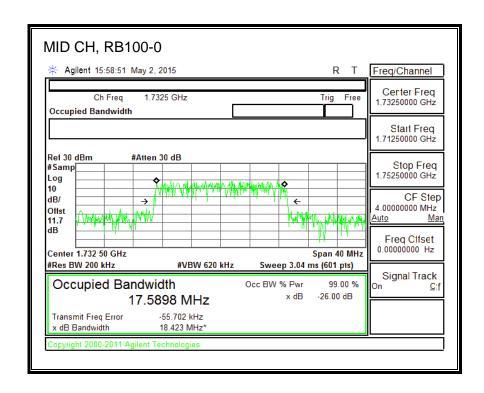
16QAM, (15.0 MHz BAND WIDTH)



QPSK, (20.0 MHz BAND WIDTH)



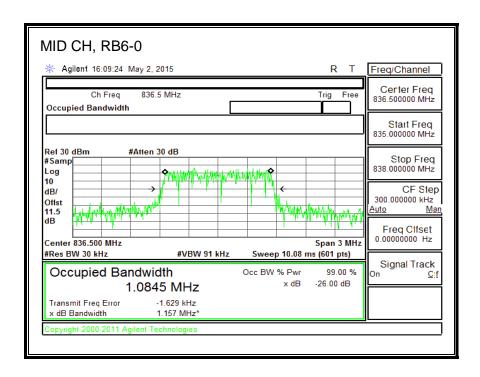
16QAM, (20.0 MHz BAND WIDTH)



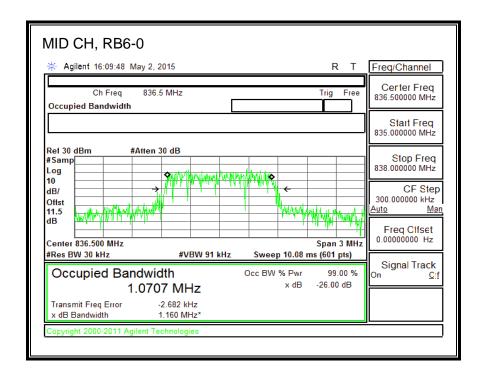
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8.1.3. LTE BAND 5

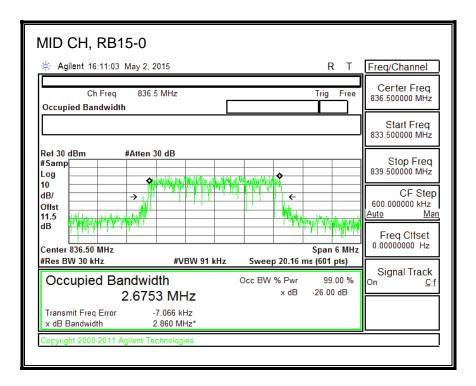
QPSK, (1.4 MHz BAND WIDTH)



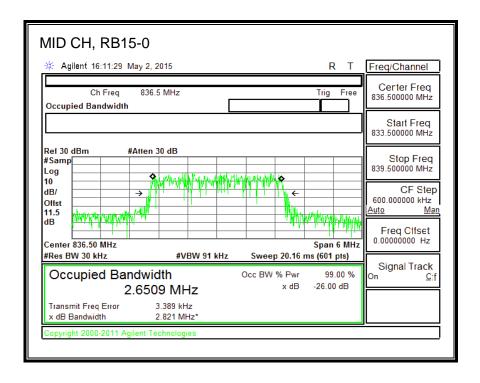
16QAM, (1.4 MHz BAND WIDTH)



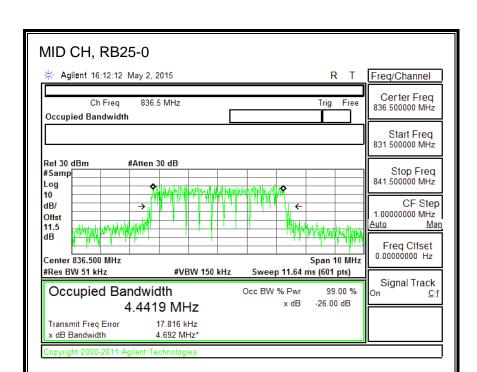
QPSK, (3.0 MHz BAND WIDTH)



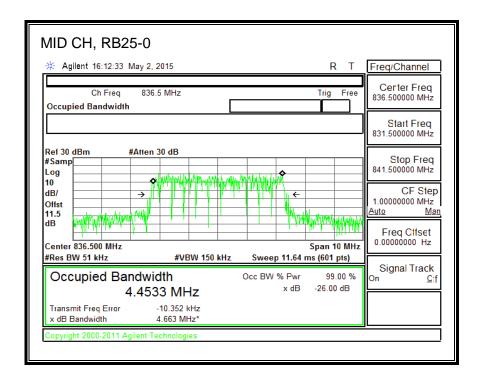
16QAM, (3.0 MHz BAND WIDTH)



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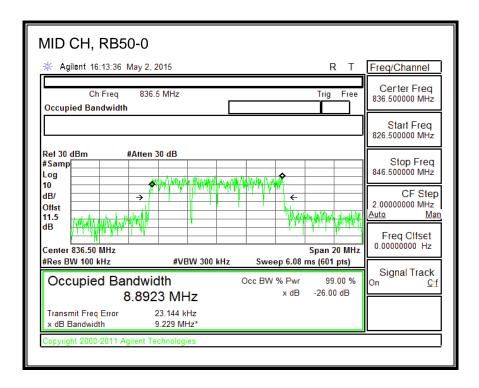


16QAM, (5.0 MHz BAND WIDTH)

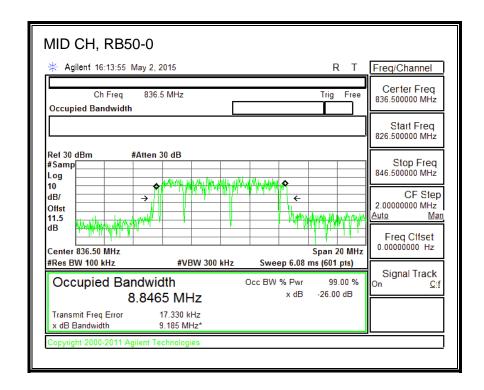


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QPSK, (10.0 MHz BAND WIDTH)



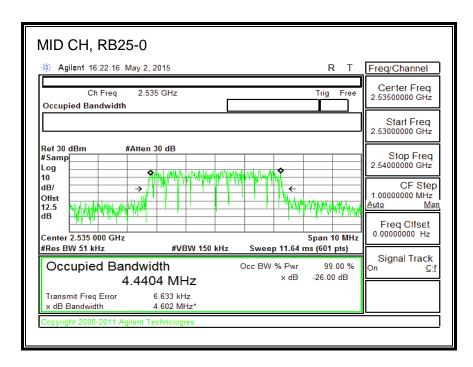
16QAM, (10.0 MHz BAND WIDTH)



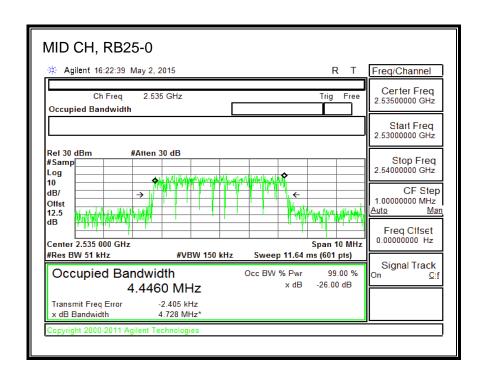
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8.1.4. LTE BAND 7

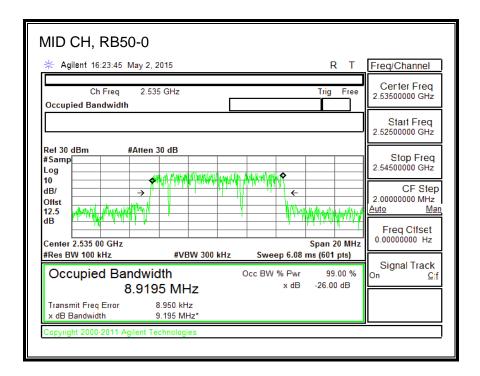
QPSK, (5.0 MHz BAND WIDTH)



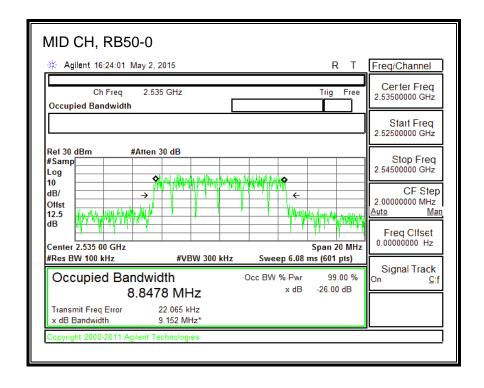
16QAM, (5.0 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015

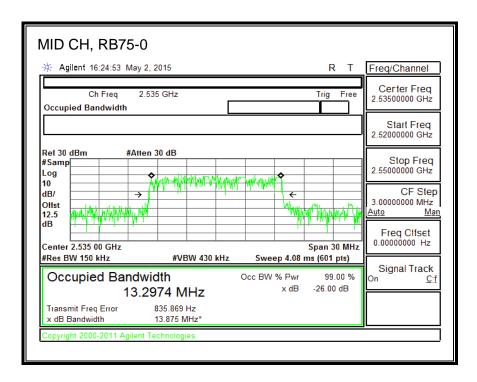


16QAM, (10.0 MHz BAND WIDTH)

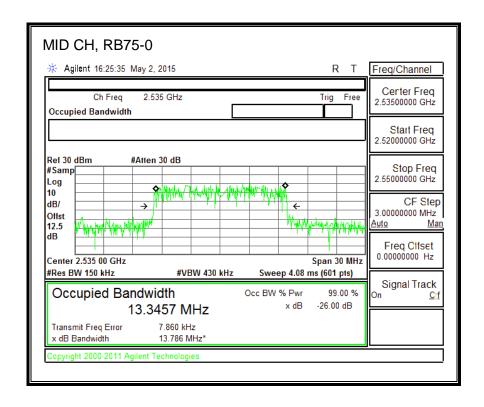


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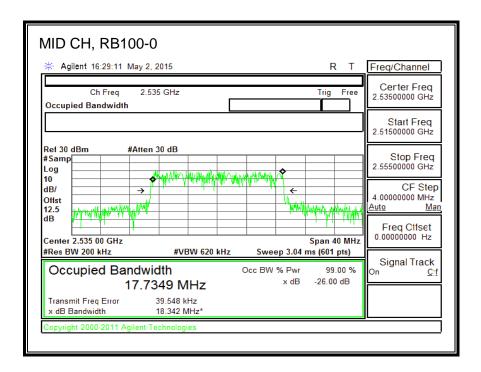
DATE: SEPTEMBER 28, 2015



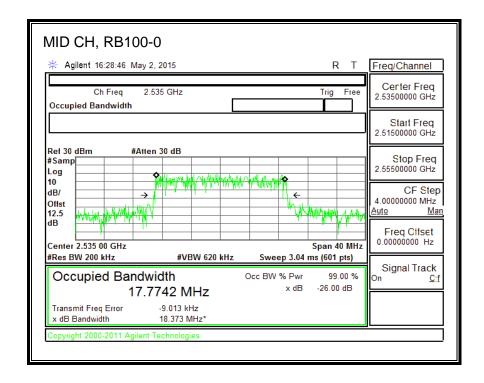
16QAM, (15.0 MHz BAND WIDTH)



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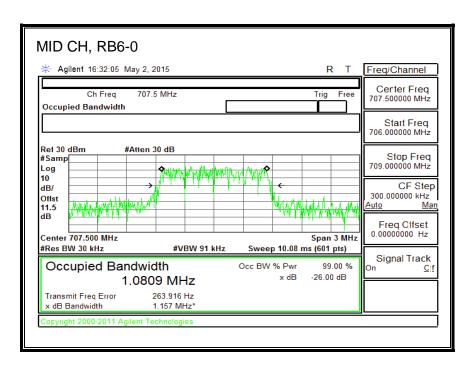
16QAM, (20.0 MHz BAND WIDTH)



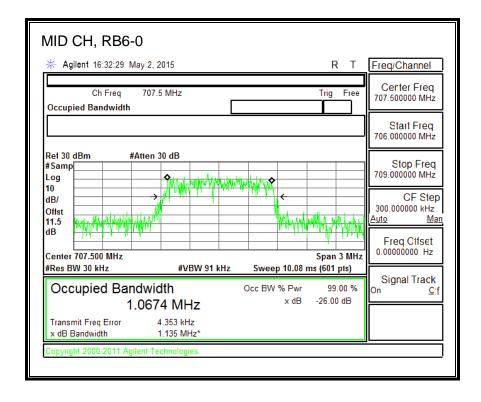
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8.1.5. LTE BAND 12

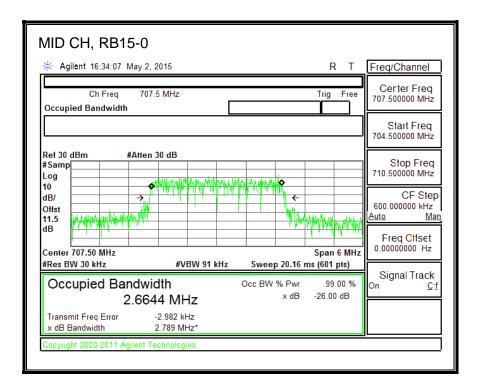
QPSK, (1.4 MHz BAND WIDTH)



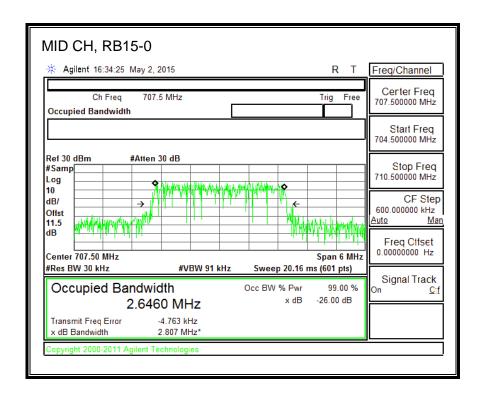
16QAM, (1.4 MHz BAND WIDTH)



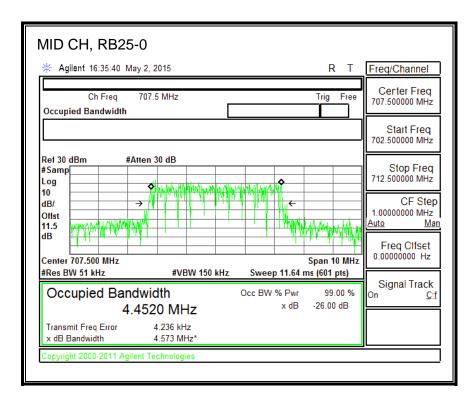
DATE: SEPTEMBER 28, 2015



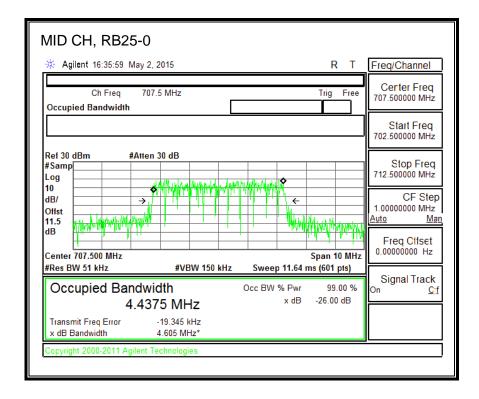
16QAM, (3.0 MHz BAND WIDTH)



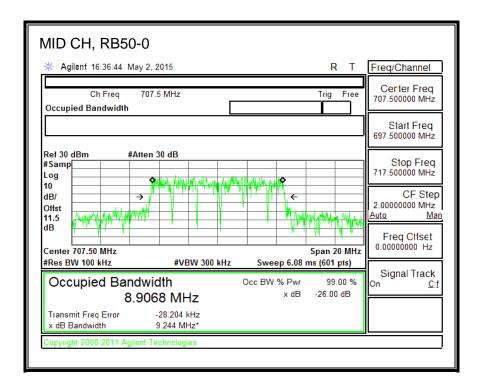
DATE: SEPTEMBER 28, 2015



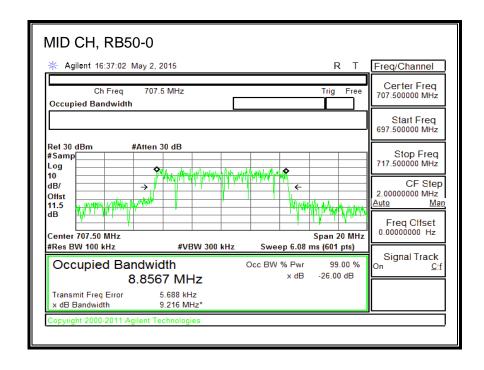
16QAM, (5.0 MHz BAND WIDTH)



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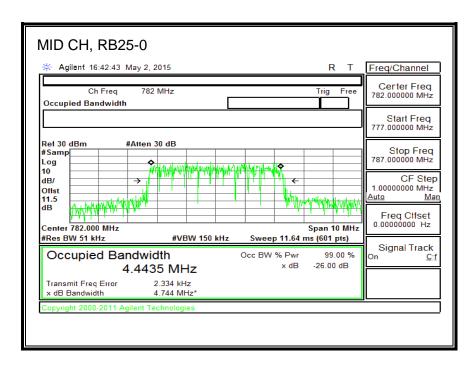
16QAM, (10.0 MHz BAND WIDTH)



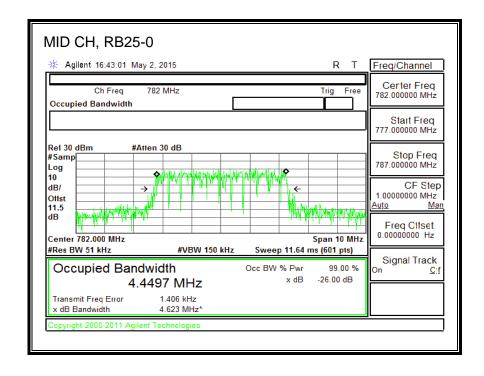
DATE: SEPTEMBER 28, 2015

8.1.6. LTE BAND 13

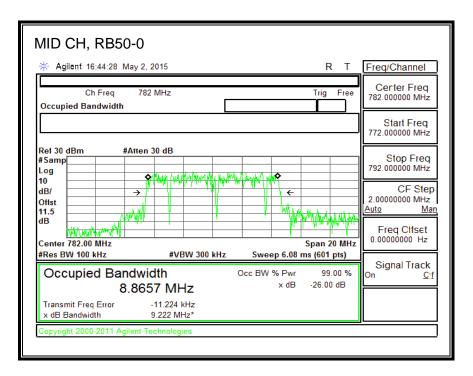
QPSK, (5.0 MHz BAND WIDTH)



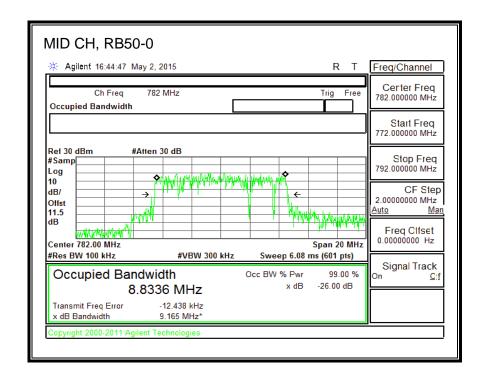
16QAM, (5.0 MHz BAND WIDTH)



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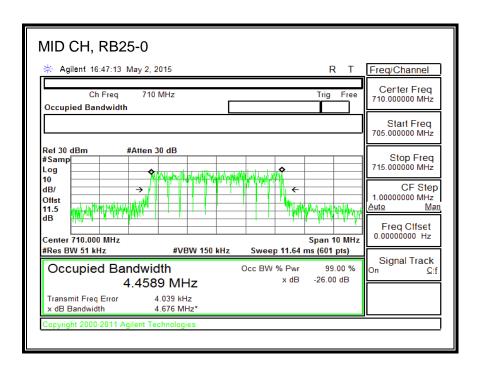
16QAM, (10.0 MHz BAND WIDTH)



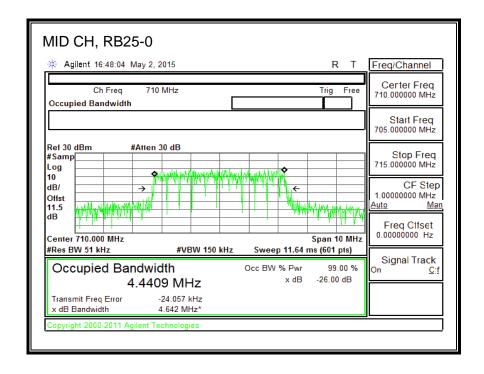
DATE: SEPTEMBER 28, 2015

8.1.7. LTE BAND 17

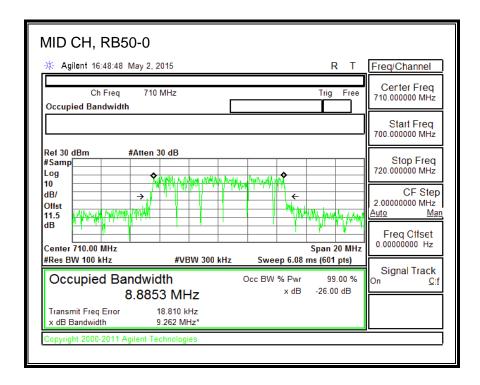
QPSK, (5.0 MHz BAND WIDTH)



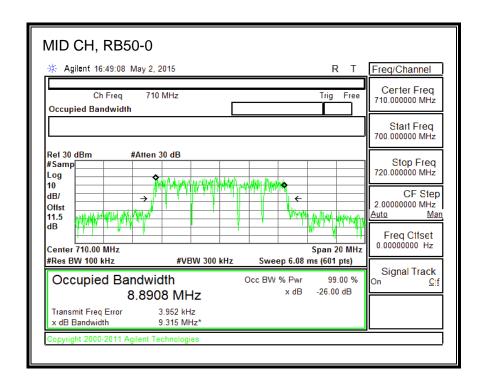
16QAM, (5.0 MHz BAND WIDTH)



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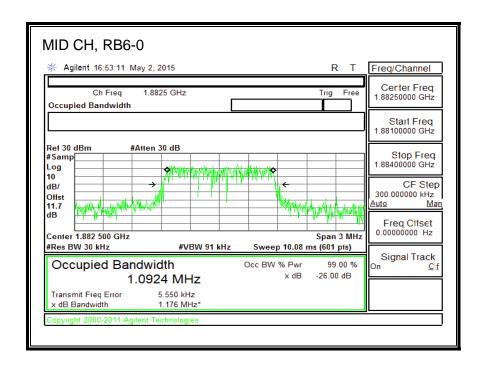
16QAM, (10.0 MHz BAND WIDTH)



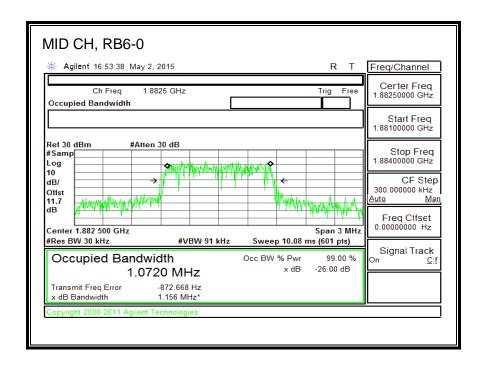
DATE: SEPTEMBER 28, 2015

8.1.8. LTE BAND 25

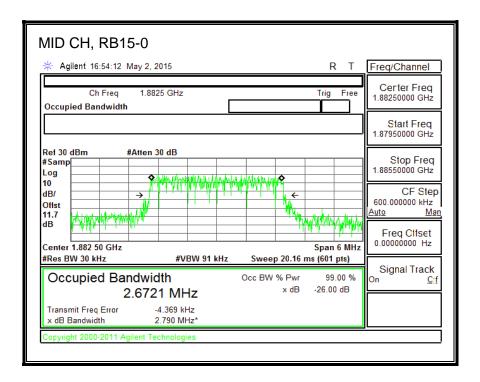
QPSK, (1.4 MHz BAND WIDTH)



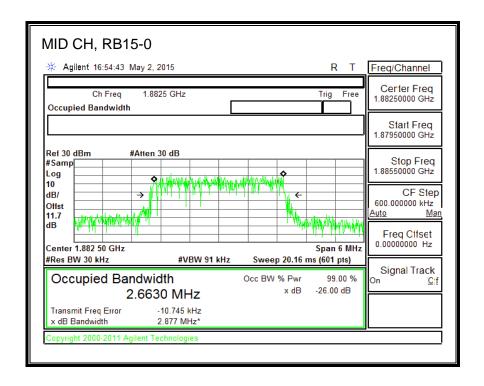
16QAM, (1.4 MHz BAND WIDTH)



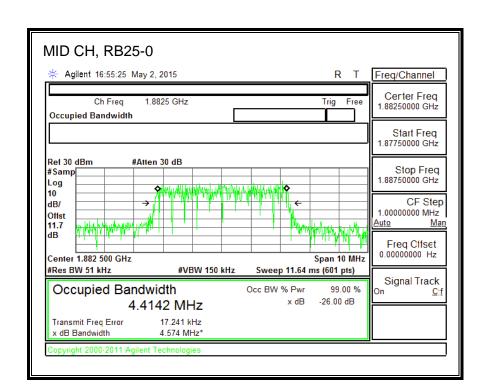
DATE: SEPTEMBER 28, 2015



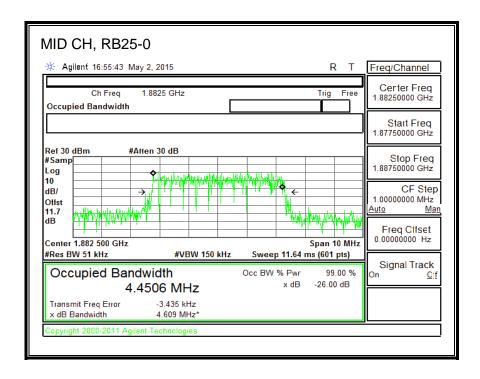
16QAM, (3.0 MHz BAND WIDTH)



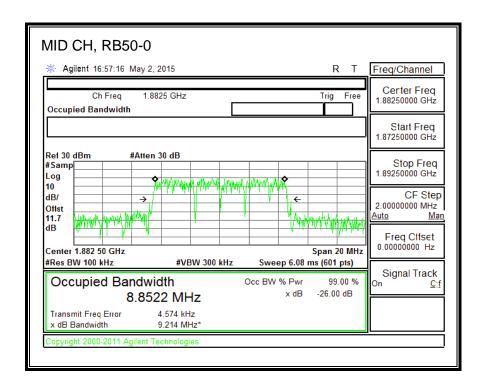
DATE: SEPTEMBER 28, 2015



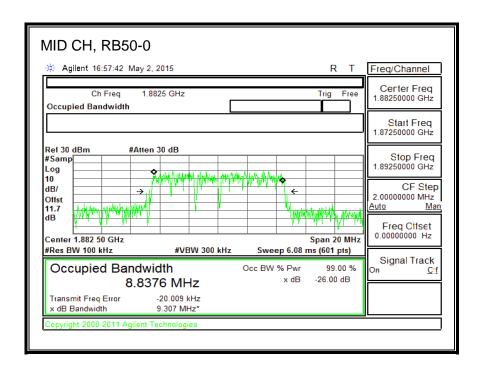
16QAM, (5.0 MHz BAND WIDTH)



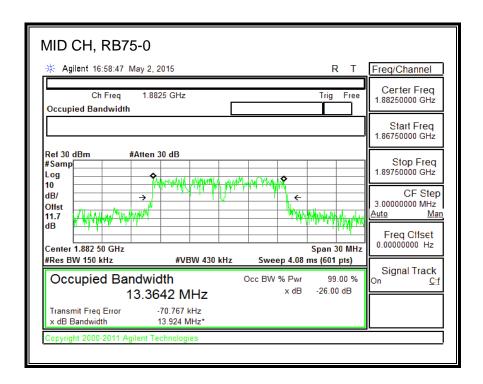
DATE: SEPTEMBER 28, 2015



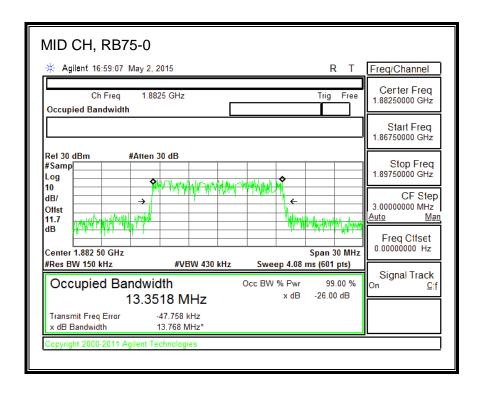
16QAM, (10.0 MHz BAND WIDTH)



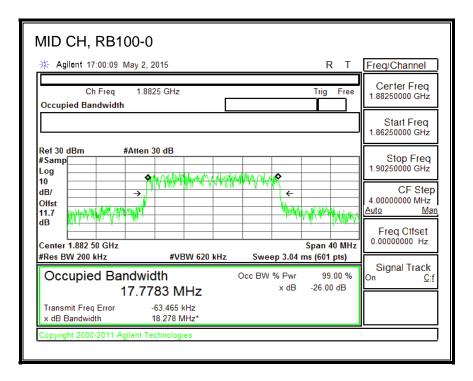
DATE: SEPTEMBER 28, 2015



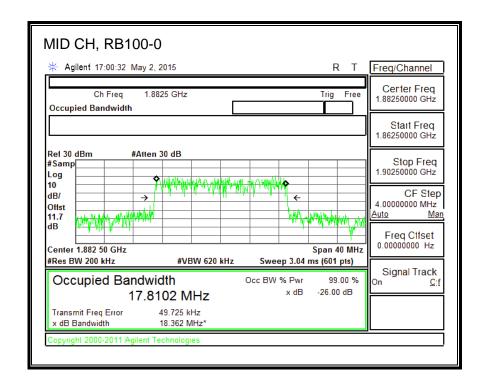
16QAM, (15.0 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015



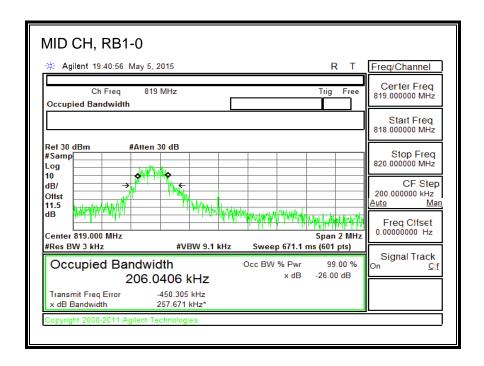
16QAM, (20.0 MHz BAND WIDTH)

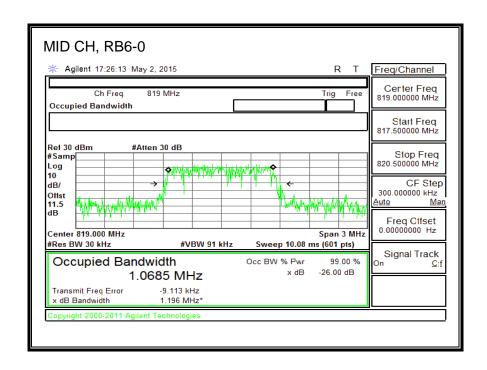


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8.1.9. LTE BAND 26

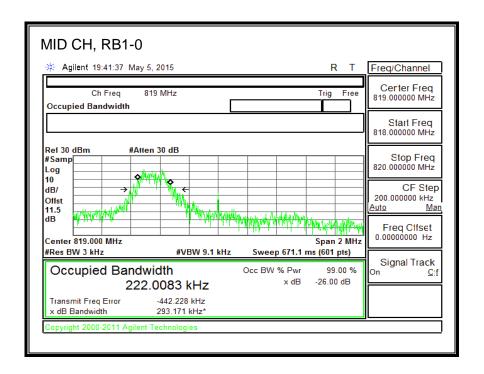
QPSK, (1.4 MHz BAND WIDTH)

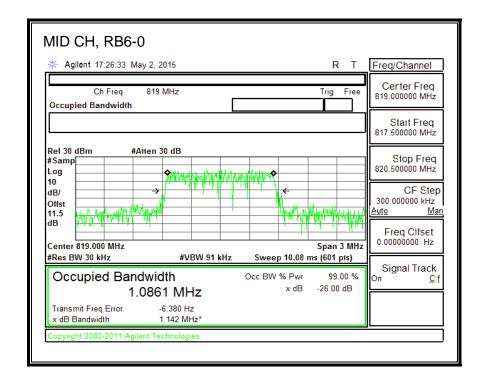


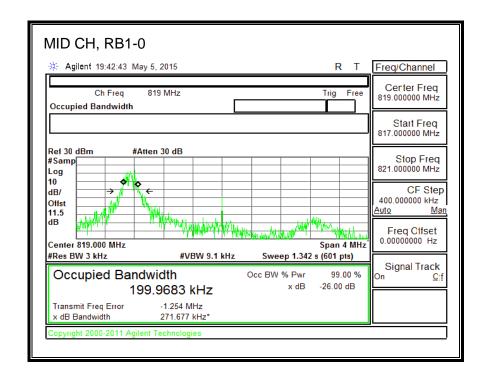


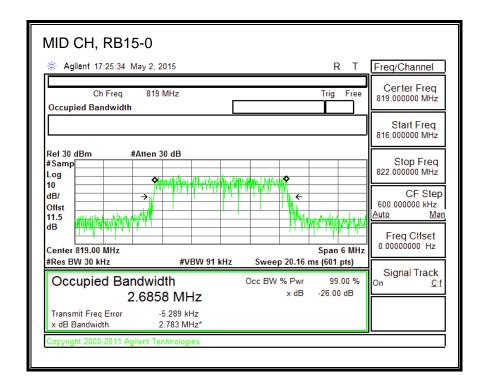
DATE: SEPTEMBER 28, 2015

16QAM, (1.4 MHz BAND WIDTH)



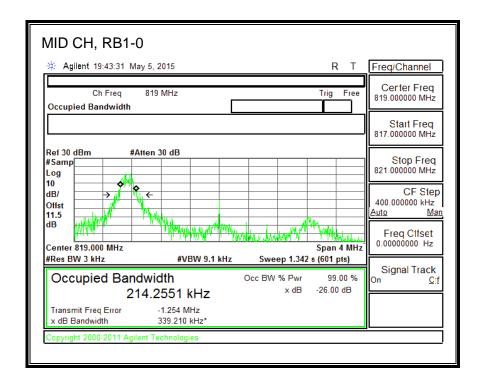


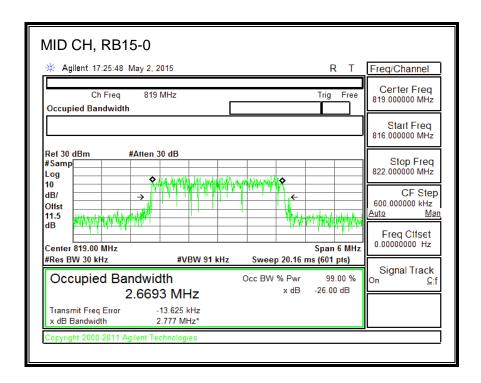




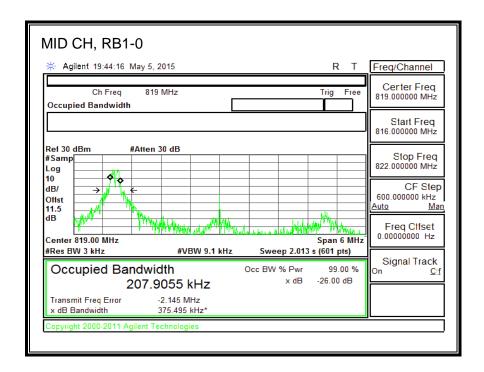
DATE: SEPTEMBER 28, 2015

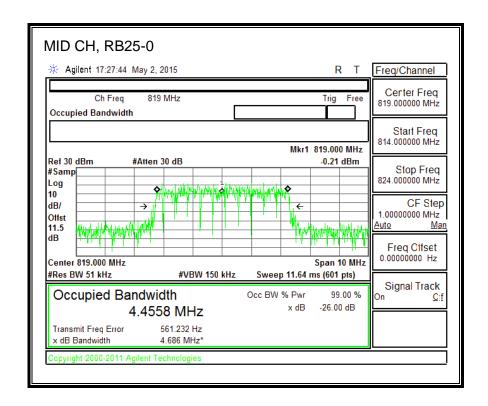
16QAM, (3.0 MHz BAND WIDTH)



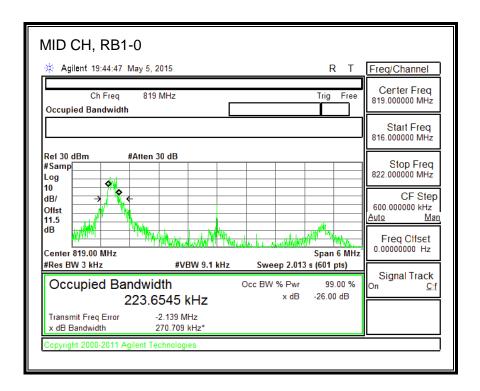


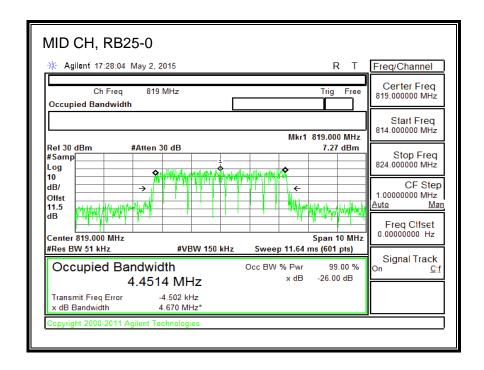
DATE: SEPTEMBER 28, 2015



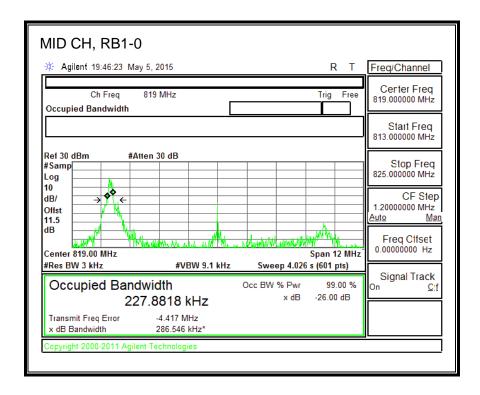


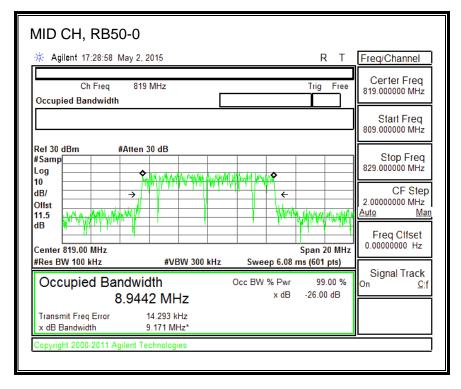
16QAM, (5.0 MHz BAND WIDTH)

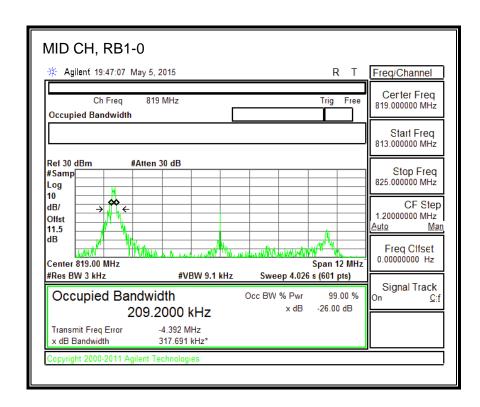


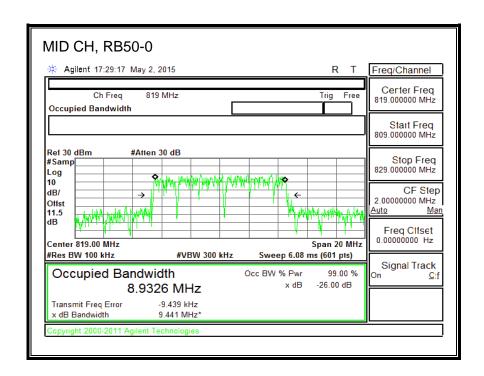


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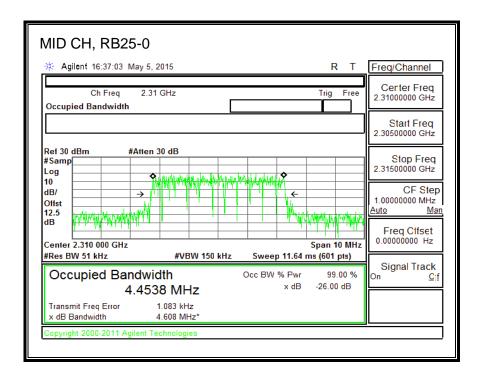




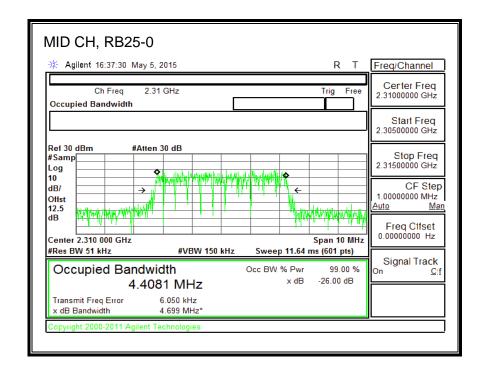
DATE: SEPTEMBER 28, 2015

8.1.10. LTE BAND 30

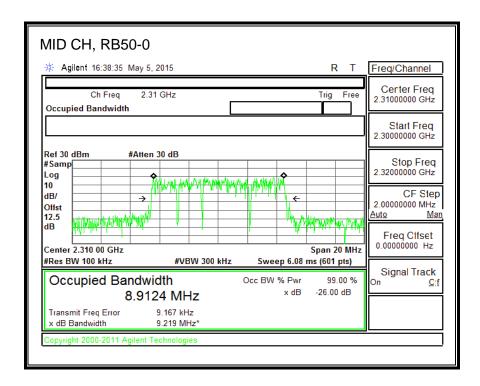
QPSK, (5.0 MHz BAND WIDTH)



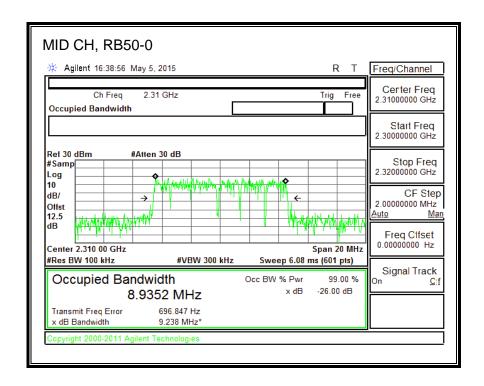
16QAM, (5.0 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015



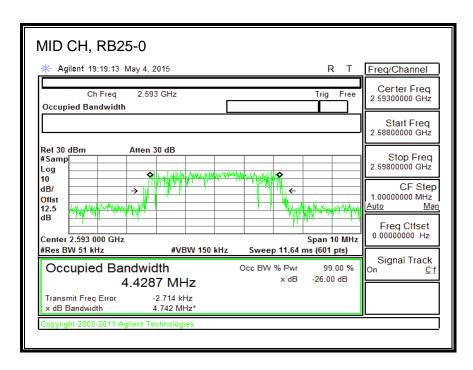
16QAM, (10.0 MHz BAND WIDTH)



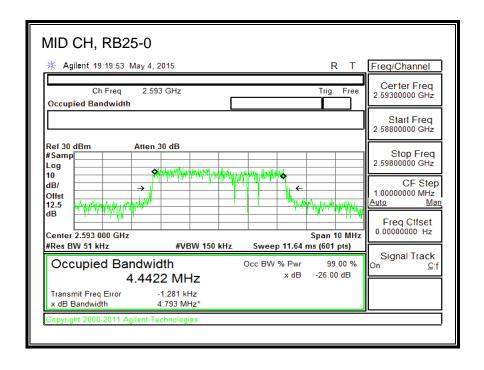
DATE: SEPTEMBER 28, 2015

8.1.11. LTE BAND 41

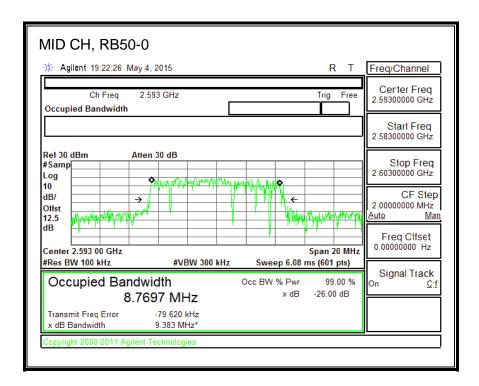
QPSK, (5.0 MHz BAND WIDTH)



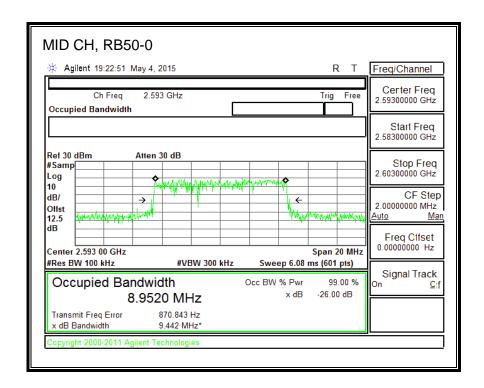
16QAM, (5.0 MHz BAND WIDTH)



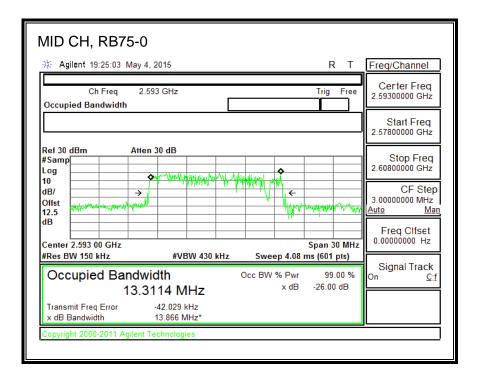
DATE: SEPTEMBER 28, 2015



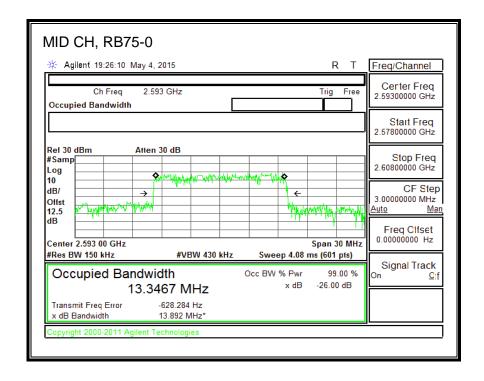
16QAM, (10.0 MHz BAND WIDTH)



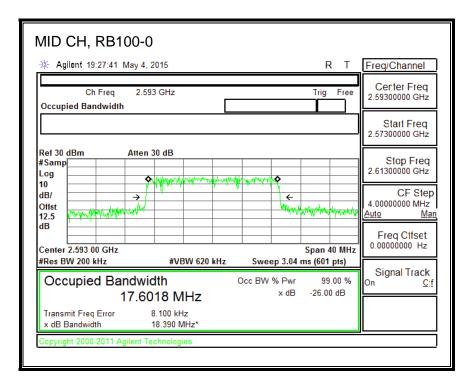
DATE: SEPTEMBER 28, 2015



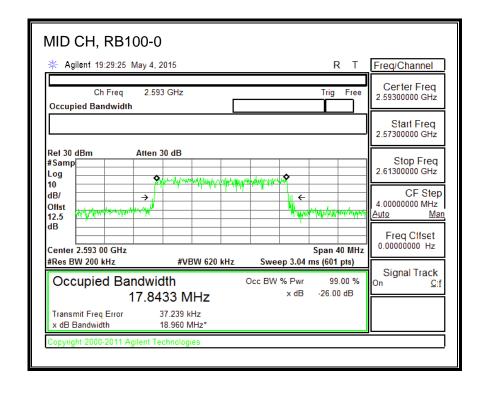
16QAM, (15.0 MHz BAND WIDTH)



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16QAM, (20.0 MHz BAND WIDTH)



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8.2. OCCUPIED BANDWIDTH (MODEL: A1687)

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 2	1.4 MHz BAND QPSK	6/0	1880	1.059	1.211
	1.4 MHz BAND 16QAM	6/0	1880	1.0956	1.153
	3.0 MHz BAND QPSK	15/0	1880	2.6518	2.757
	3.0 MHz BAND 16QAM	15/0	1880	2.6579	2.772
	5.0 MHz BAND QPSK	25/0	1880	4.4744	4.600
	5.0 MHz BAND 16QAM	25/0	1880	4.4368	4.607
	10.0 MHz BAND QPSK	50/0	1880	8.7613	9.217
	10.0 MHz BAND 16QAM	50/0	1880	8.9135	9.195
	15.0 MHz BAND QPSK	75/0	1880	13.0763	13.788
	15.0 MHz BAND 16QAM	75/0	1880	13.3875	13.724
	20.0 MHz BAND QPSK	100/0	1880	17.8297	18.382
	20.0 MHz BAND 16QAM	100/0	1880	17.6879	18.238

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BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 4	1.4 MHz BAND QPSK	6/0	1732.5	1.077	1.194
	1.4 MHz BAND 16QAM	6/0	1732.5	1.0643	1.153
	3.0 MHz BAND QPSK	15/0	1732.5	2.6514	2.757
	3.0 MHz BAND 16QAM	15/0	1732.5	2.6542	2.804
	5.0 MHz BAND QPSK	25/0	1732.5	4.4534	4.804
	5.0 MHz BAND 16QAM	25/0	1732.5	4.4499	4.645
	10.0 MHz BAND QPSK	50/0	1732.5	8.812	9.177
	10.0 MHz BAND 16QAM	50/0	1732.5	8.7591	9.222
	15.0 MHz BAND QPSK	75/0	1732.5	13.2508	13.781
	15.0 MHz BAND 16QAM	75/0	1732.5	13.4017	13.695
	20.0 MHz BAND QPSK	100/0	1732.5	17.7152	18.613
	20.0 MHz BAND 16QAM	100/0	1732.5	17.9022	18.486

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 5	1.4 MHz BAND QPSK	6/0	836.5	1.0914	1.17
	1.4 MHz BAND 16QAM	6/0	836.5	1.0764	1.15
	3.0 MHz BAND QPSK	15/0	836.5	2.6533	2.796
	3.0 MHz BAND 16QAM	15/0	836.5	2.6791	2.876
	5.0 MHz BAND QPSK	25/0	836.5	4.4241	4.681
	5.0 MHz BAND 16QAM	25/0	836.5	4.4251	4.688
	10.0 MHz BAND QPSK	50/0	836.5	8.8161	9.159
	10.0 MHz BAND 16QAM	50/0	836.5	8.8478	9.428

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 7	5.0 MHz BAND QPSK	25/0	2535	4.4603	4.622
	5.0 MHz BAND 16QAM	25/0	2535	4.4340	4.573
	10.0 MHz BAND QPSK	50/0	2535	8.8673	9.262
	10.0 MHz BAND 16QAM	50/0	2535	8.8222	9.173
	15.0 MHz BAND QPSK	75/0	2535	13.2243	13.794
	15.0 MHz BAND 16QAM	75/0	2535	13.3695	13.648
	20.0 MHz BAND QPSK	100/0	2535	17.9460	18.318
	20.0 MHz BAND 16QAM	100/0	2535	17.6619	18.373

BAND	MODE	RB SIZE/ RB OFFSET	lf (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 12	1.4 MHz BAND QPSK	6/0	707.5	1.0544	1.18
	1.4 MHz BAND 16QAM	6/0	707.5	1.0837	1.175
	3.0 MHz BAND QPSK	15/0	707.5	2.6834	2.898
	3.0 MHz BAND 16QAM	15/0	707.5	2.6829	2.857
	5.0 MHz BAND QPSK	25/0	707.5	4.4639	4.632
	5.0 MHz BAND 16QAM	25/0	707.5	4.4204	4.685
	10.0 MHz BAND QPSK	50/0	707.5	8.882	9.256
	10.0 MHz BAND 16QAM	50/0	707.5	8.844	9.43

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 13	5.0 MHz BAND QPSK	25/0	782	4.4315	4.695
	5.0 MHz BAND 16QAM	25/0	782	4.4751	4.598
	10.0 MHz BAND QPSK	50/0	782	8.7395	9.497
	10.0 MHz BAND 16QAM	50/0	782	8.8158	9.216

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 17	5.0 MHz BAND QPSK	25/0	710	4.4506	4.685
	5.0 MHz BAND 16QAM	25/0	710	4.4454	4.689
	10.0 MHz BAND QPSK	50/0	710	8.8697	9.307
	10.0 MHz BAND 16QAM	50/0	710	8.858	9.246

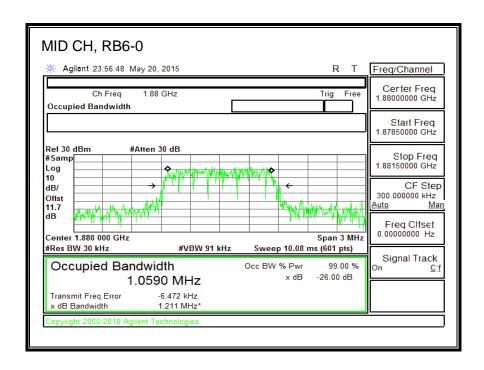
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 25	1.4 MHz BAND QPSK	6/0	1882.5	1.0823	1.18
	1.4 MHz BAND 16QAM	6/0	1882.5	1.0675	1.175
	3.0 MHz BAND QPSK	15/0	1882.5	2.6792	2.861
	3.0 MHz BAND 16QAM	15/0	1882.5	2.6541	2.883
	5.0 MHz BAND QPSK	25/0	1882.5	4.4458	4.723
	5.0 MHz BAND 16QAM	25/0	1882.5	4.4464	4.693
	10.0 MHz BAND QPSK	50/0	1882.5	8.8765	9.228
	10.0 MHz BAND 16QAM	50/0	1882.5	8.7694	9.11
	15.0 MHz BAND QPSK	75/0	1882.5	13.1685	13.768
	15.0 MHz BAND 16QAM	75/0	1882.5	13.308	13.939
	20.0 MHz BAND QPSK	100/0	1882.5	17.8539	18.308
	20.0 MHz BAND 16QAM	100/0	1882.5	17.8858	18.377

BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 26	1.4 MHz BAND QPSK	6/0	819	1.077	1.197
	1.4 MHz BAND 16QAM	6/0	819	1.0866	1.177
	3.0 MHz BAND QPSK	15/0	819	2.6712	2.784
	3.0 MHz BAND 16QAM	15/0	819	2.6611	2.879
	5.0 MHz BAND QPSK	25/0	819	4.4020	4.693
	5.0 MHz BAND 16QAM	25/0	819	4.4679	4.633
	10.0 MHz BAND QPSK	50/0	819	8.8895	9.321
	10.0 MHz BAND 16QAM	50/0	819	8.8214	9.14

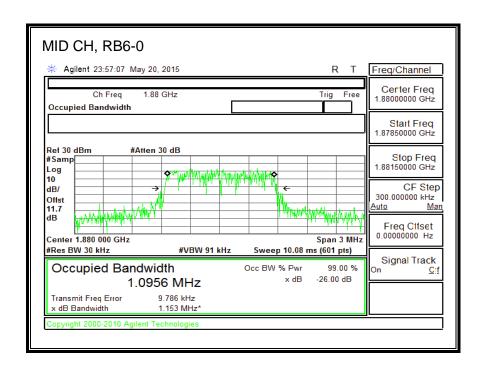
BAND	MODE	RB SIZE/ RB OFFSET	f (MHz)	99% BW (MHz)	- 26dB BW (MHz)
LTE BAND 41	5.0 MHz BAND QPSK	25/0	2593	4.4592	4.738
	5.0 MHz BAND 16QAM	25/0	2593	4.4309	4.683
	10.0 MHz BAND QPSK	50/0	2593	8.8409	9.165
	10.0 MHz BAND 16QAM	50/0	2593	8.8423	9.291
	15.0 MHz BAND QPSK	75/0	2593	13.4121	13.835
	15.0 MHz BAND 16QAM	75/0	2593	13.3002	13.952
	20.0 MHz BAND QPSK	100/0	2593	17.7995	18.334
	20.0 MHz BAND 16QAM	100/0	2593	17.5739	18.602

8.2.1. LTE BAND 2

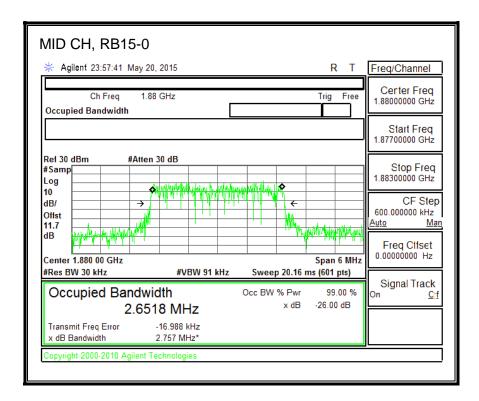
QPSK, (1.4 MHz BAND WIDTH)



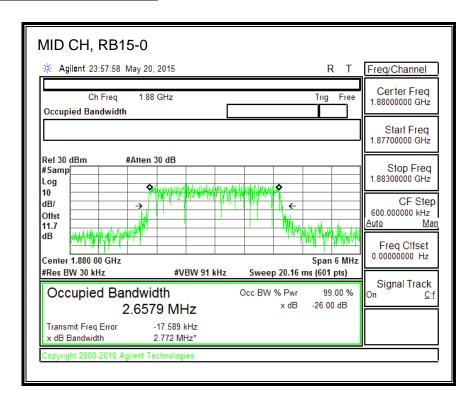
16QAM, (1.4 MHz BAND WIDTH)



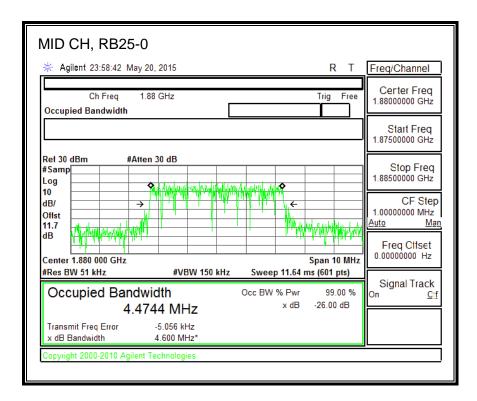
DATE: SEPTEMBER 28, 2015



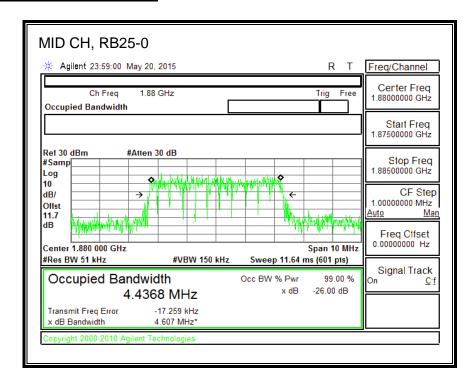
16QAM, (3.0 MHz BAND WIDTH)



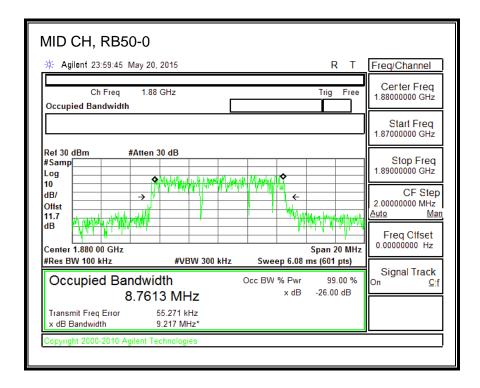
DATE: SEPTEMBER 28, 2015



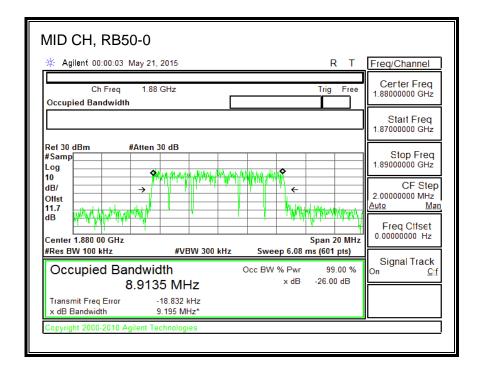
16QAM, (5.0 MHz BAND WIDTH)



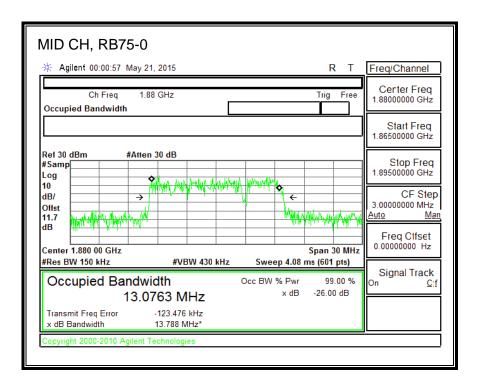
DATE: SEPTEMBER 28, 2015



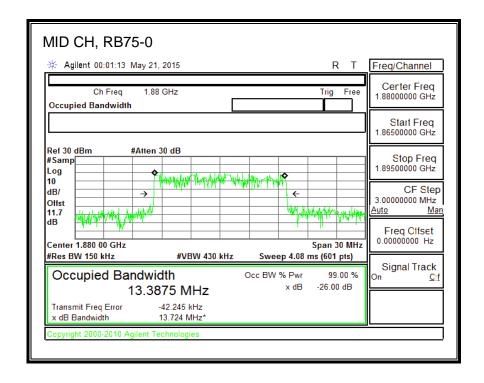
16QAM, (10.0 MHz BAND WIDTH)



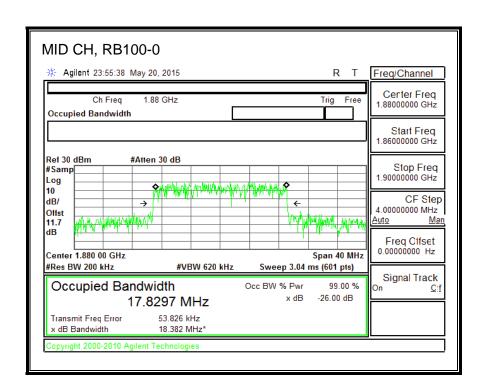
DATE: SEPTEMBER 28, 2015



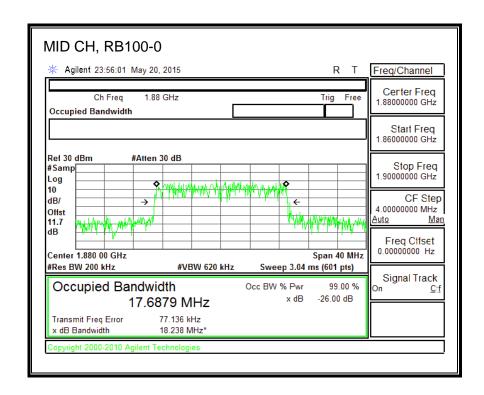
16QAM, (15.0 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015



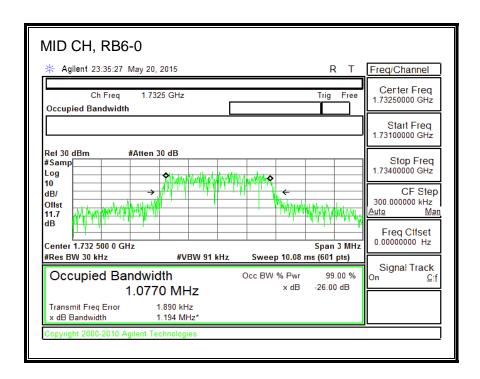
16QAM, (20.0 MHz BAND WIDTH)



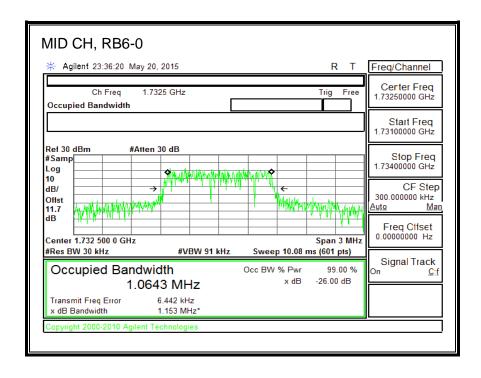
DATE: SEPTEMBER 28, 2015

8.2.2. LTE BAND 4

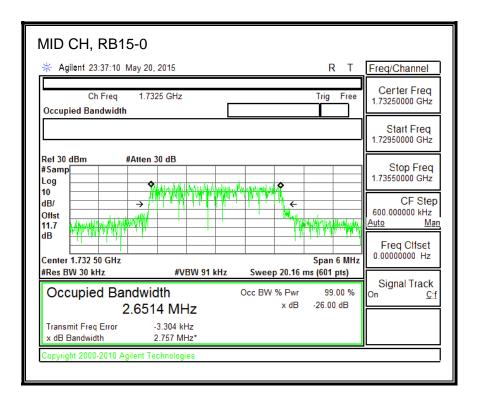
QPSK, (1.4 MHz BAND WIDTH)



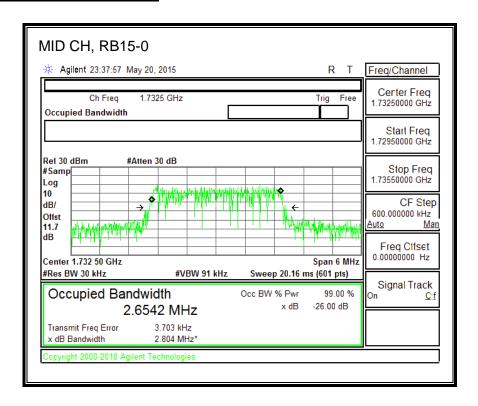
16QAM, (1.4 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015

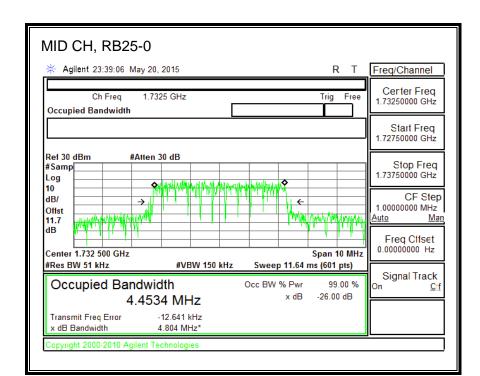


16QAM, (3.0 MHz BAND WIDTH)

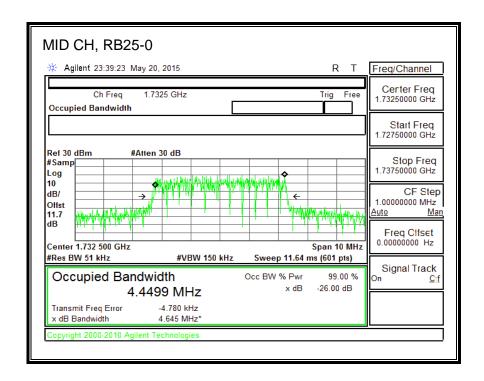


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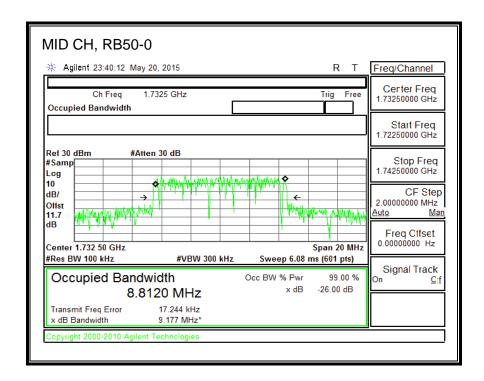
DATE: SEPTEMBER 28, 2015



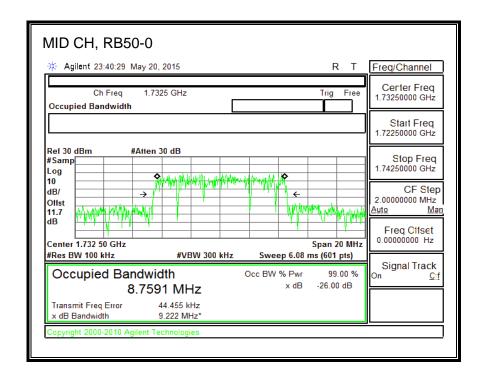
16QAM, (5.0 MHz BAND WIDTH)



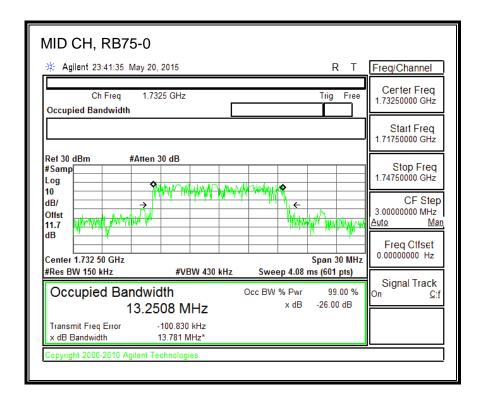
DATE: SEPTEMBER 28, 2015



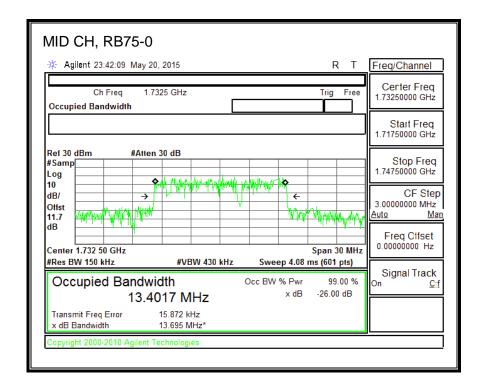
16QAM, (10.0 MHz BAND WIDTH)



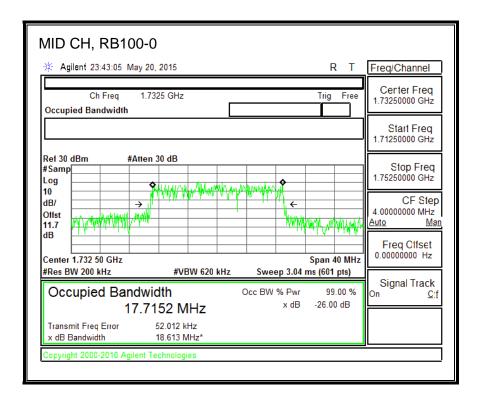
DATE: SEPTEMBER 28, 2015



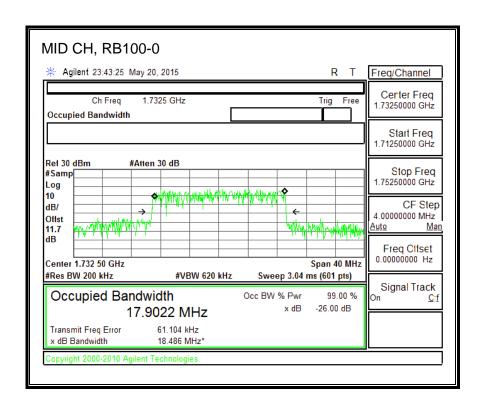
16QAM, (15.0 MHz BAND WIDTH)



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16QAM, (20.0 MHz BAND WIDTH)

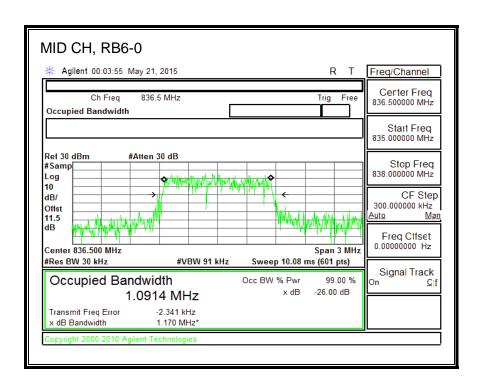


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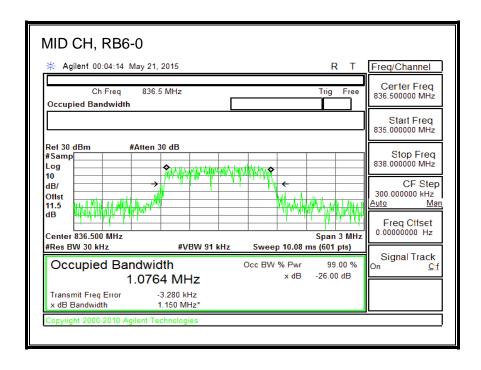
DATE: SEPTEMBER 28, 2015

8.2.3. LTE BAND 5

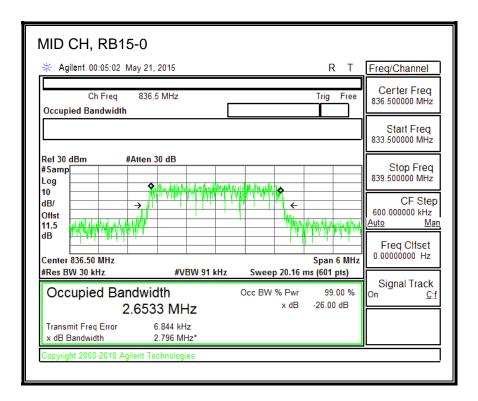
QPSK, (1.4 MHz BAND WIDTH)



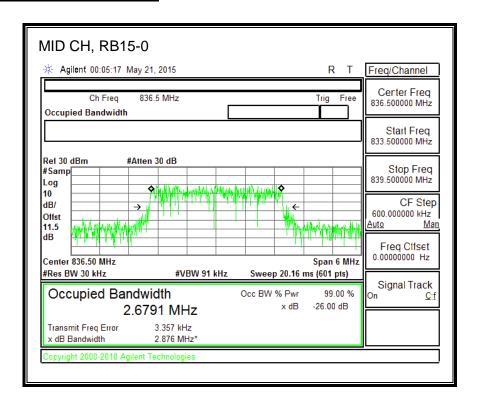
16QAM, (1.4 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015

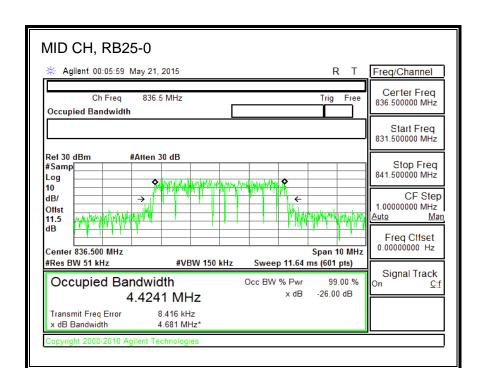


16QAM, (3.0 MHz BAND WIDTH)

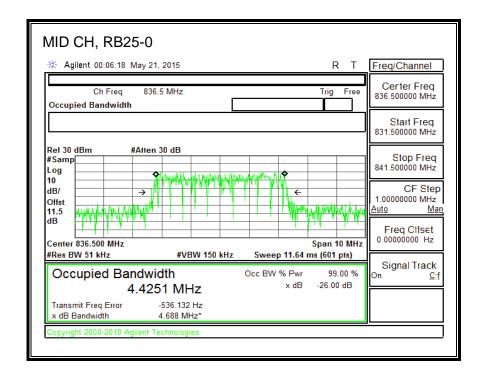


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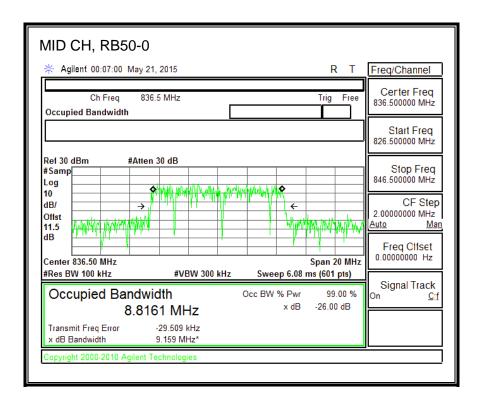
DATE: SEPTEMBER 28, 2015



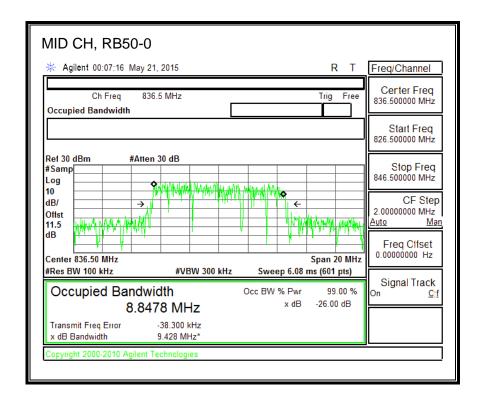
16QAM, (5.0 MHz BAND WIDTH)



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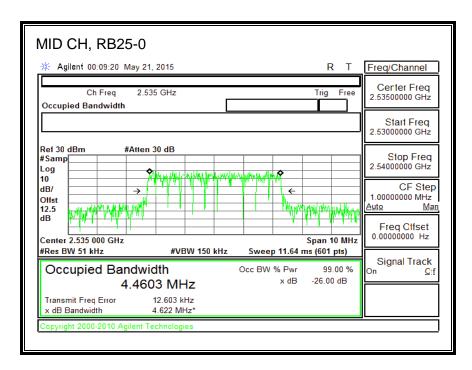
16QAM, (10.0 MHz BAND WIDTH)



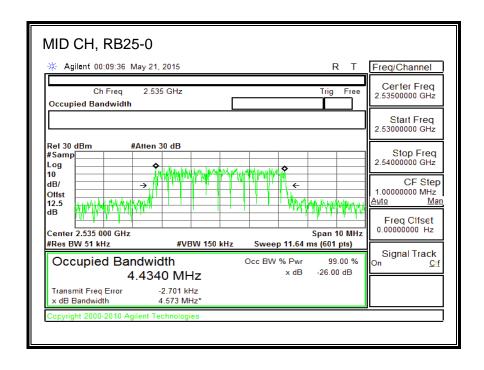
DATE: SEPTEMBER 28, 2015

8.2.4. LTE BAND 7

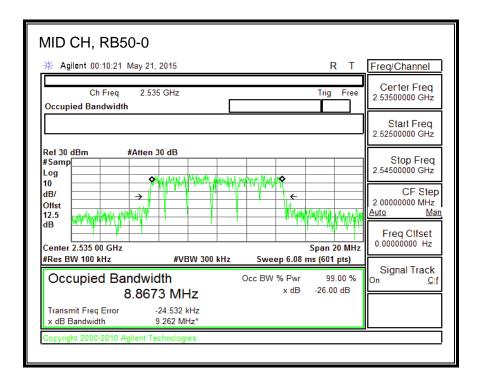
QPSK, (5.0 MHz BAND WIDTH)



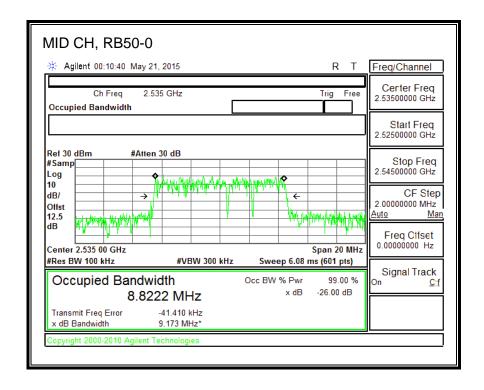
16QAM, (5.0 MHz BAND WIDTH)



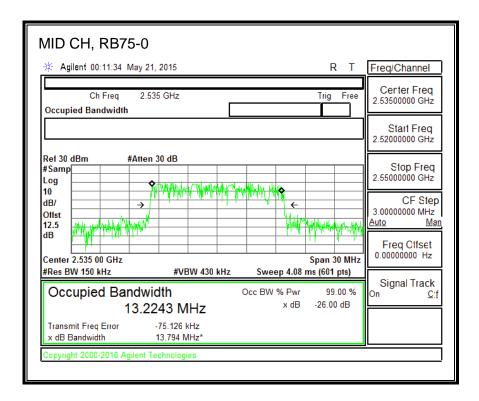
DATE: SEPTEMBER 28, 2015



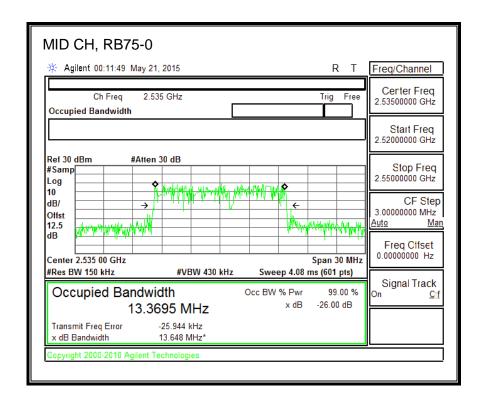
16QAM, (10.0 MHz BAND WIDTH)



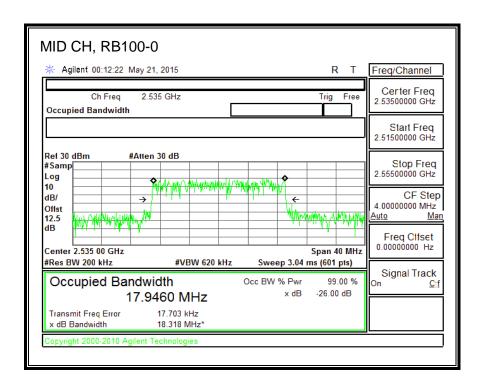
DATE: SEPTEMBER 28, 2015



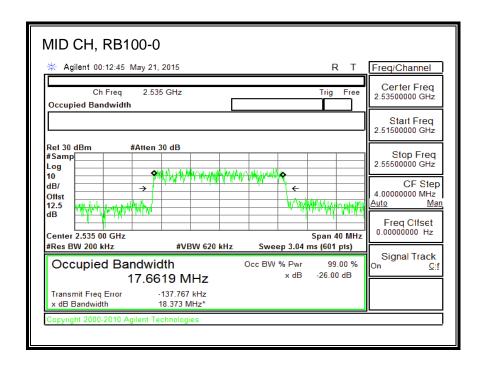
16QAM, (15.0 MHz BAND WIDTH)



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16QAM, (20.0 MHz BAND WIDTH)

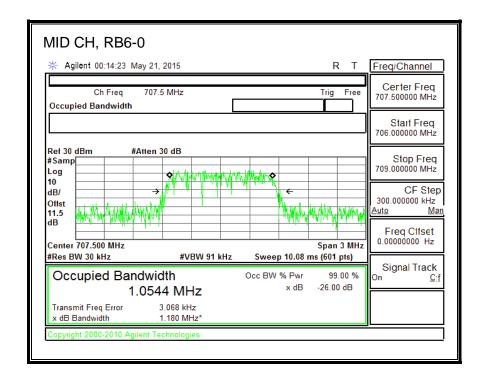


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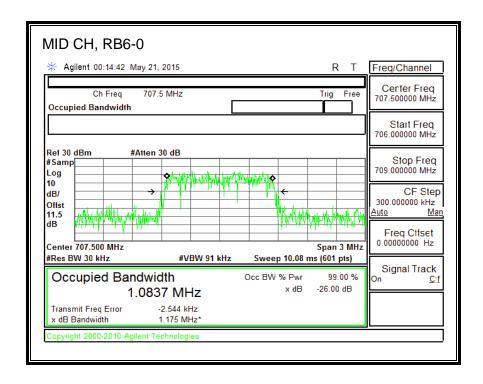
LLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS FCC ID: BCG-E2944A

QPSK, (1.4 MHz BAND WIDTH)

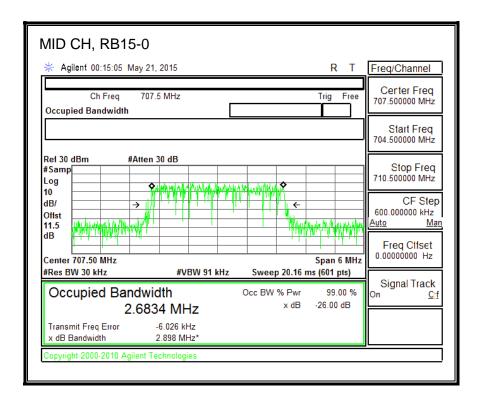
8.2.5. LTE BAND 12



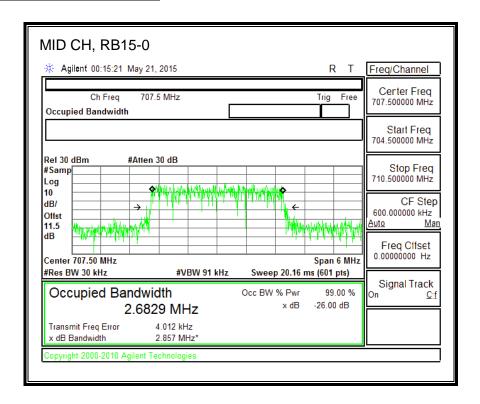
16QAM, (1.4 MHz BAND WIDTH)



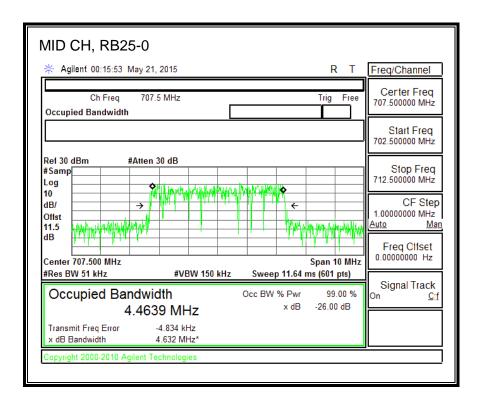
DATE: SEPTEMBER 28, 2015



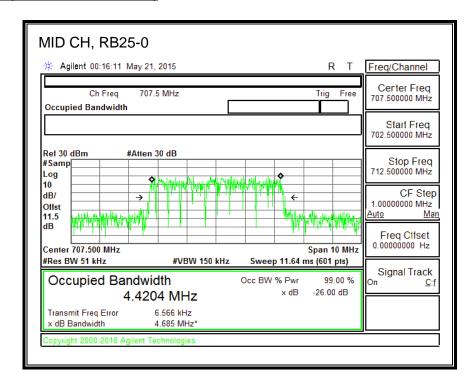
16QAM, (3.0 MHz BAND WIDTH)



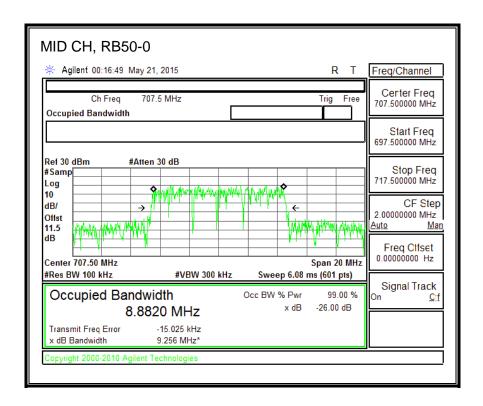
DATE: SEPTEMBER 28, 2015



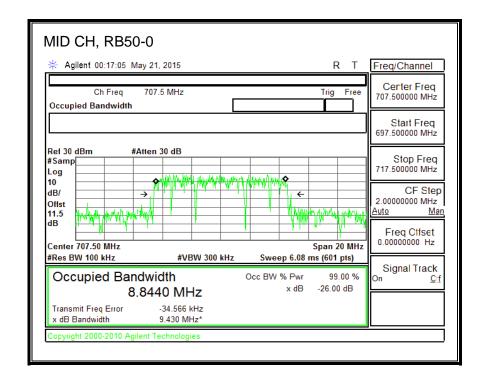
16QAM, (5.0 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015

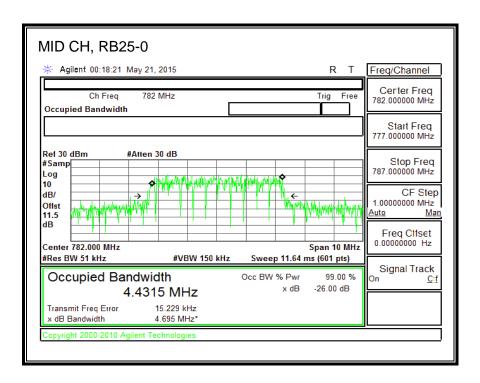


16QAM, (10.0 MHz BAND WIDTH)

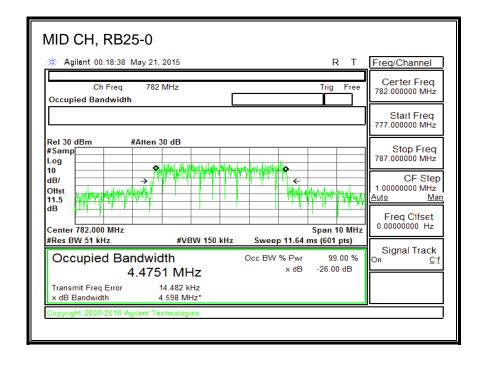


8.2.6. LTE BAND 13

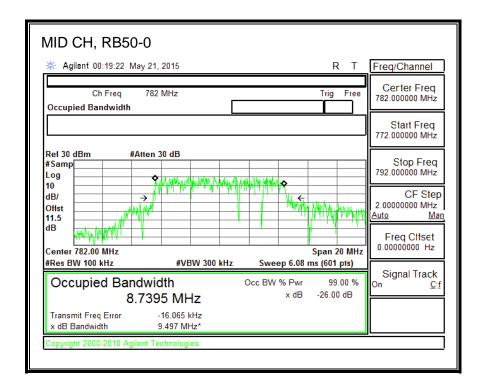
QPSK, (5.0 MHz BAND WIDTH)



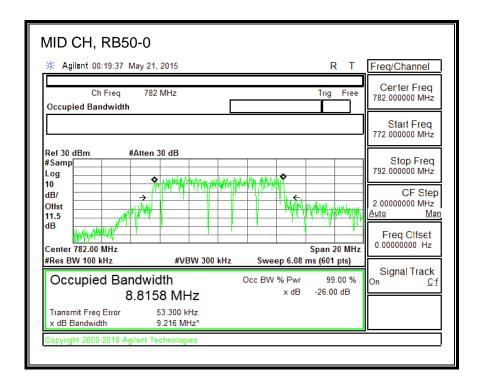
16QAM, (5.0 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015



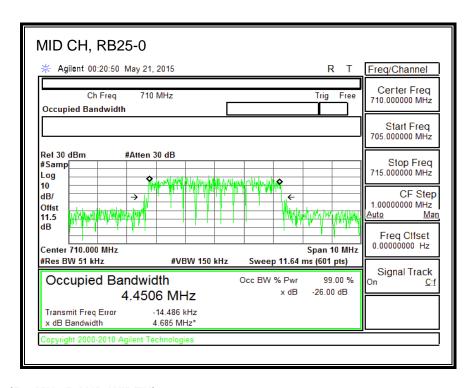
16QAM, (10.0 MHz BAND WIDTH)



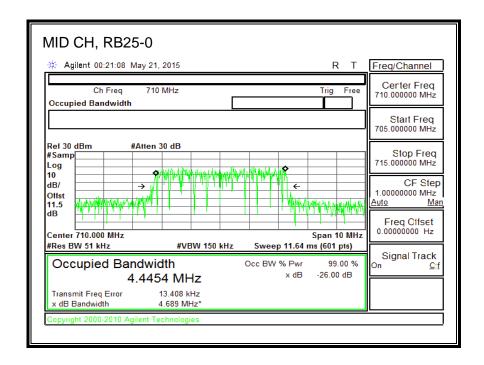
DATE: SEPTEMBER 28, 2015

8.2.7. LTE BAND 17

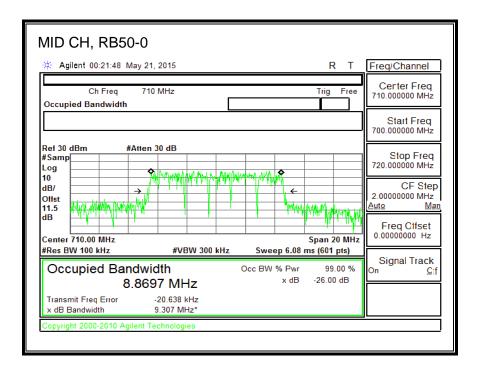
QPSK, (5.0 MHz BAND WIDTH)



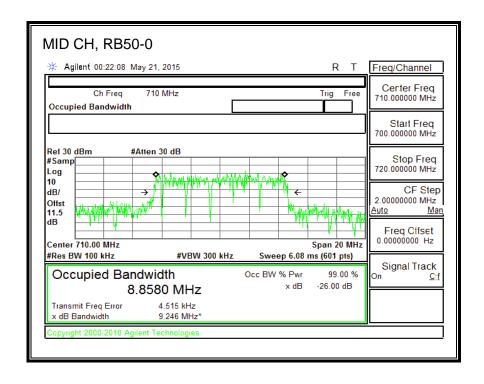
16QAM, (5.0 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015



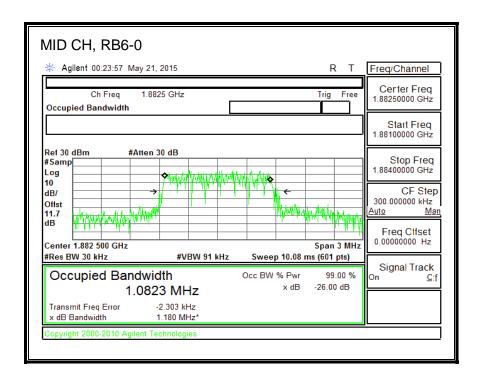
16QAM, (10.0 MHz BAND WIDTH)



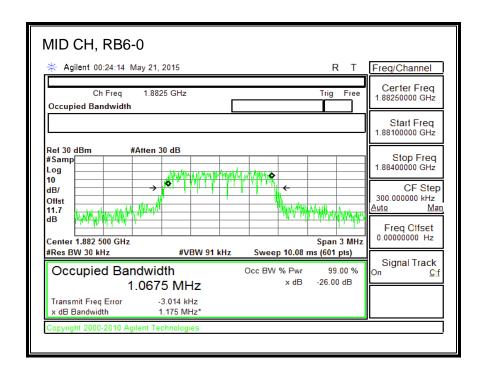
DATE: SEPTEMBER 28, 2015

8.2.8. LTE BAND 25

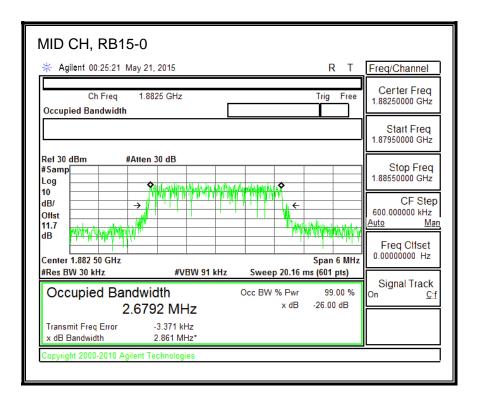
QPSK, (1.4 MHz BAND WIDTH)



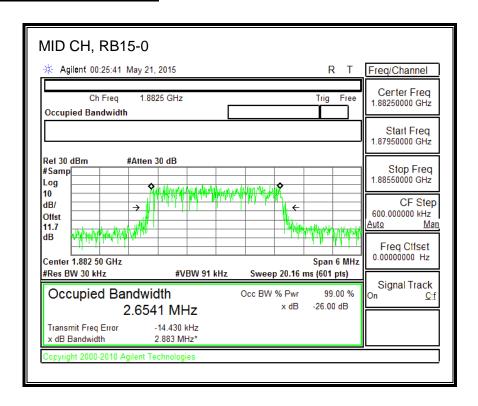
16QAM, (1.4 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015

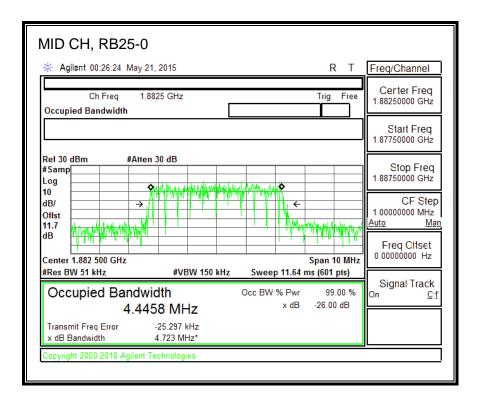


16QAM, (3.0 MHz BAND WIDTH)

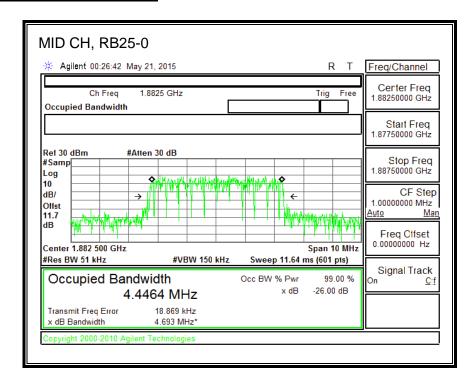


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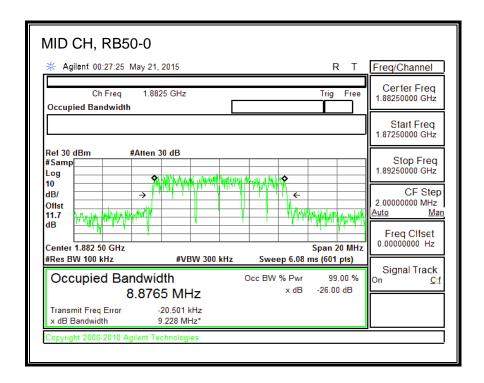
DATE: SEPTEMBER 28, 2015



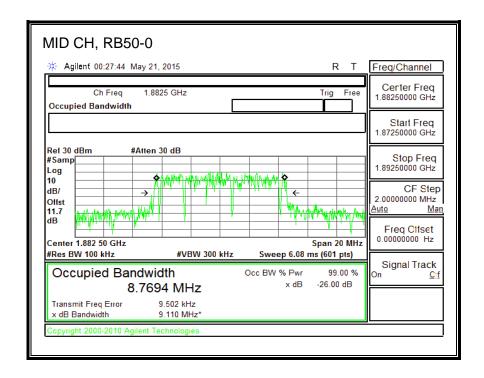
16QAM, (5.0 MHz BAND WIDTH)



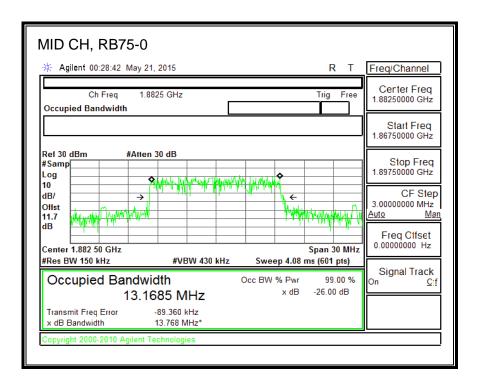
DATE: SEPTEMBER 28, 2015



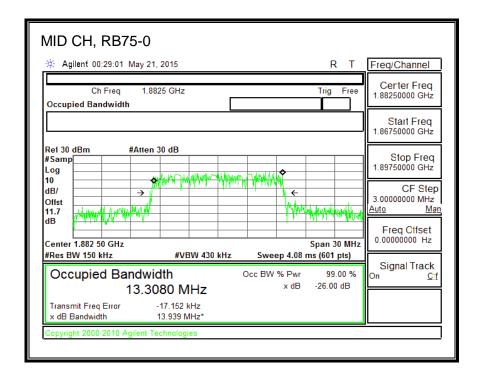
16QAM, (10.0 MHz BAND WIDTH)



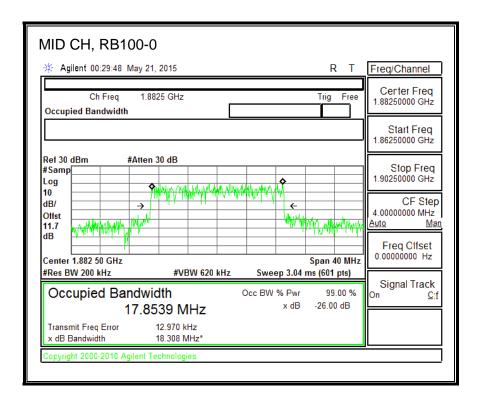
DATE: SEPTEMBER 28, 2015



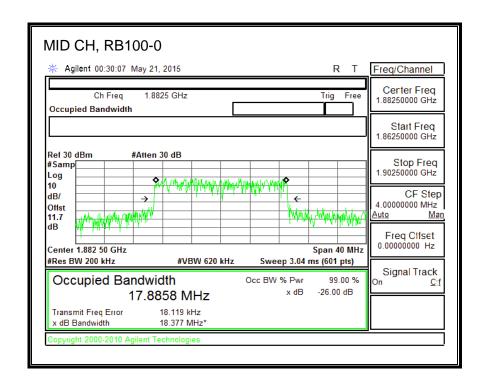
16QAM, (15.0 MHz BAND WIDTH)



DATE: SEPTEMBER 28, 2015



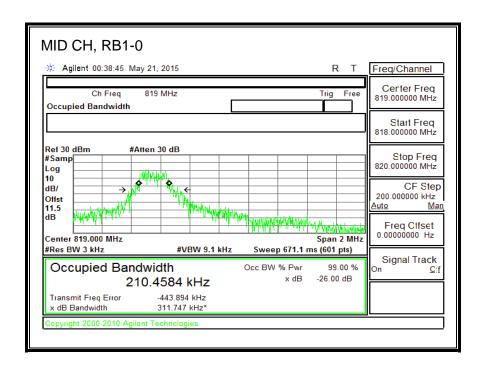
16QAM, (20.0 MHz BAND WIDTH)

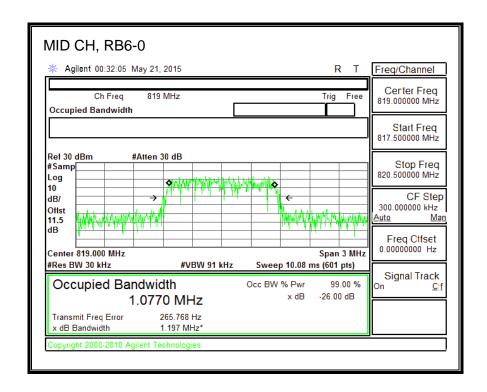


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8.2.9. LTE BAND 26

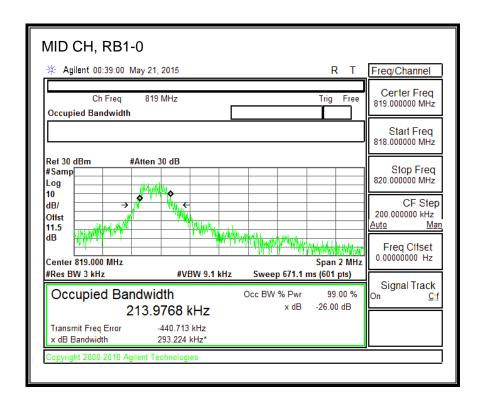
QPSK, (1.4 MHz BAND WIDTH)

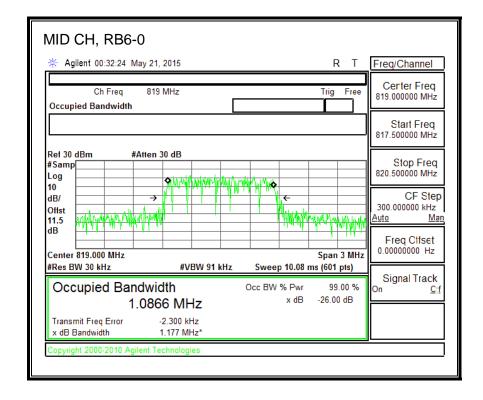




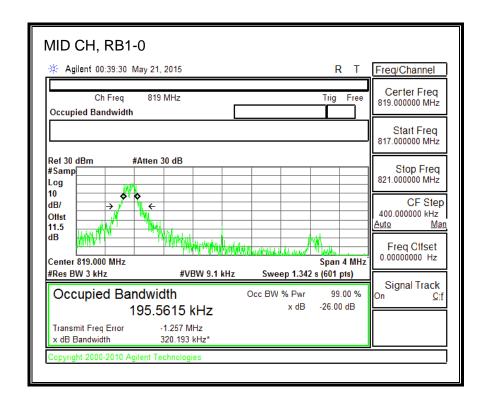
DATE: SEPTEMBER 28, 2015

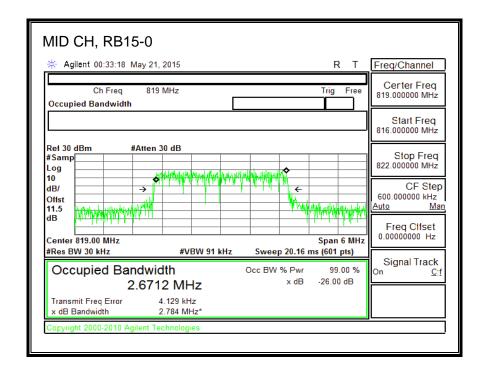
16QAM, (1.4 MHz BAND WIDTH)



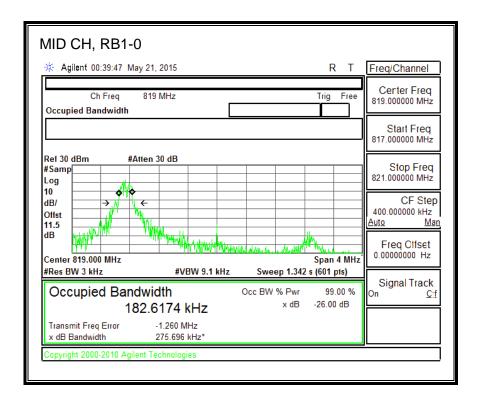


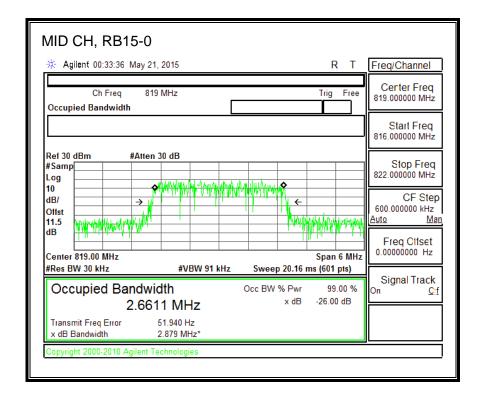
QPSK, (3.0 MHz BAND WIDTH)





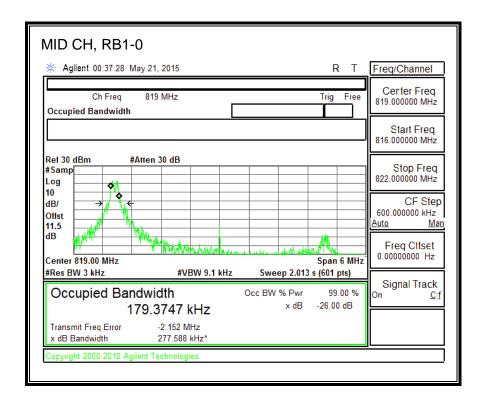
16QAM, (3.0 MHz BAND WIDTH)

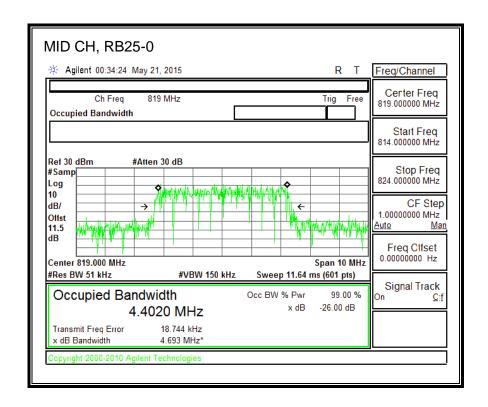




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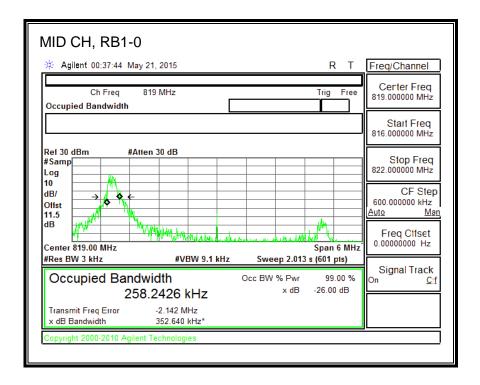
QPSK, (5.0 MHz BAND WIDTH)

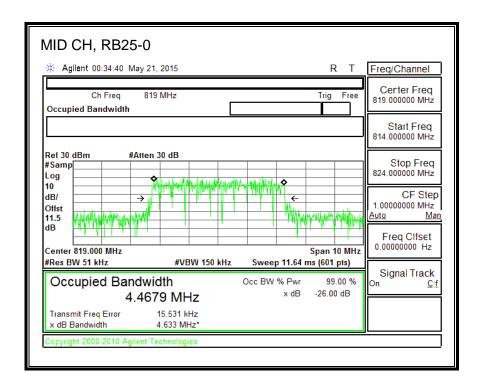




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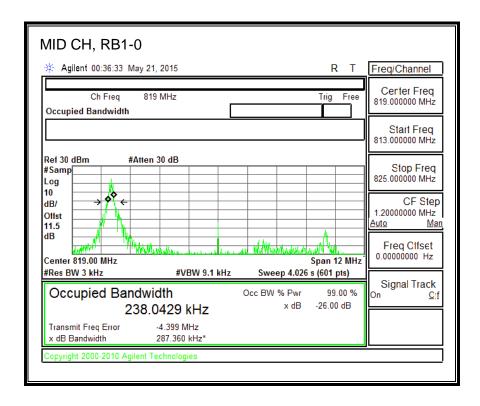
16QAM, (5.0 MHz BAND WIDTH)

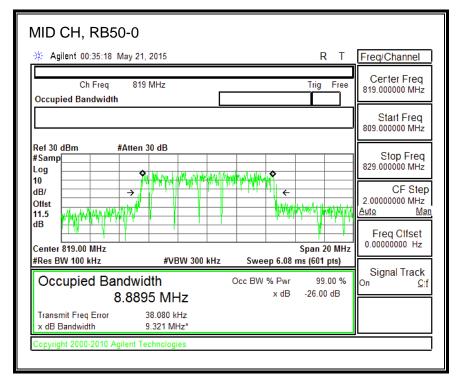




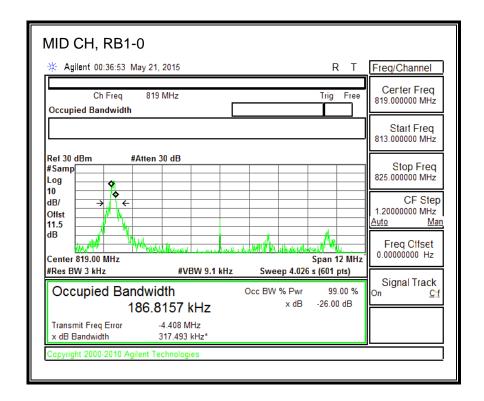
DATE: SEPTEMBER 28, 2015

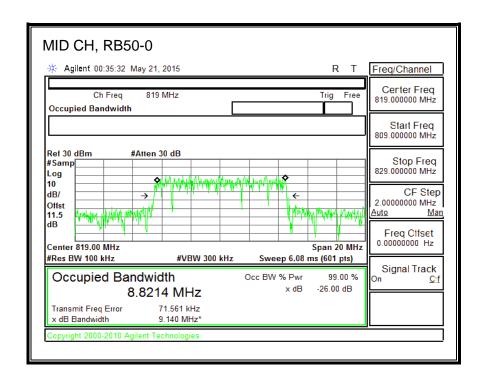
QPSK, (10.0 MHz BAND WIDTH)





16QAM, (10.0 MHz BAND WIDTH)

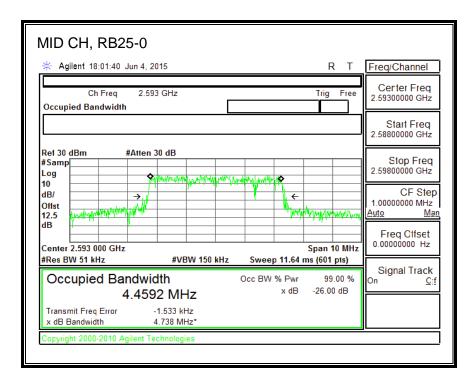




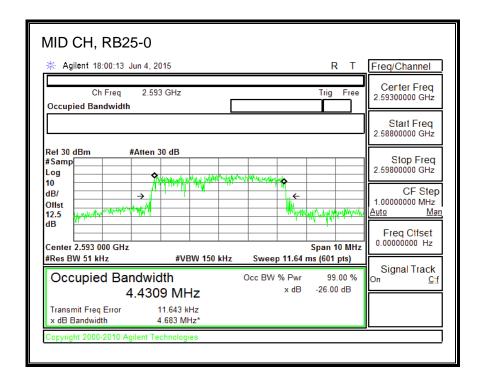
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QPSK, (5.0 MHz BAND WIDTH)

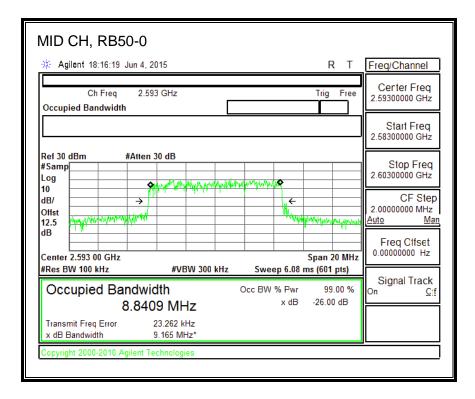


16QAM, (5.0 MHz BAND WIDTH)

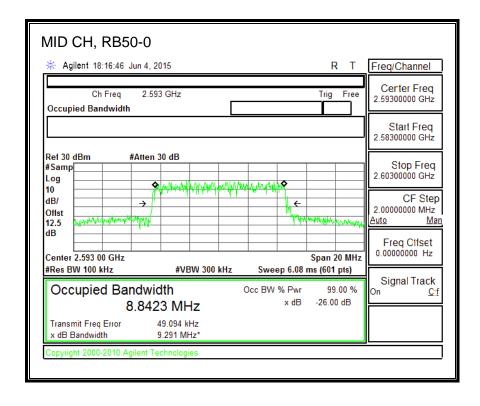


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QPSK, (10.0 MHz BAND WIDTH)

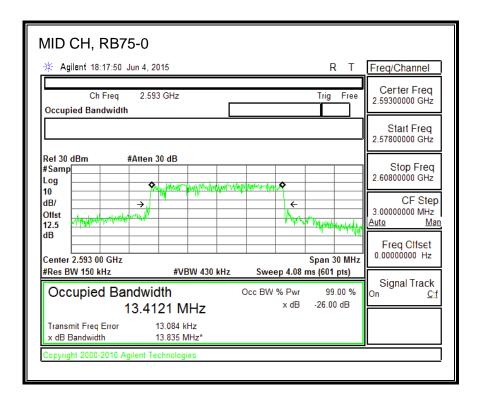


16QAM, (10.0 MHz BAND WIDTH)

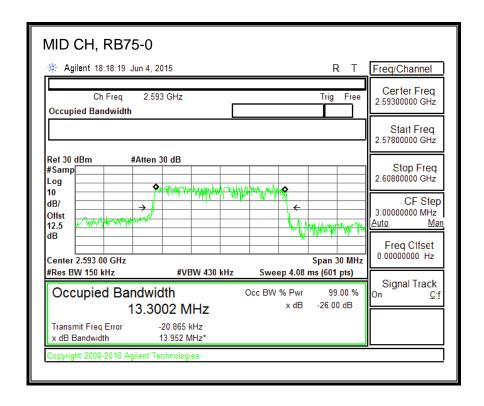


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QPSK, (15.0 MHz BAND WIDTH)

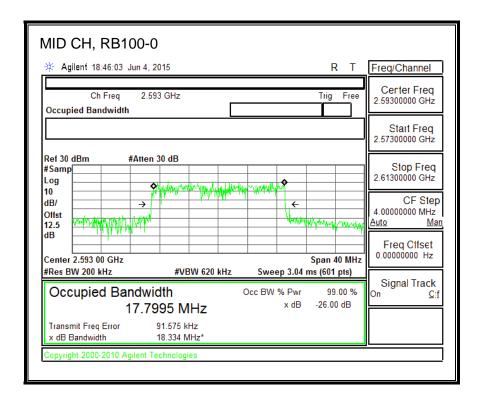


16QAM, (15.0 MHz BAND WIDTH)

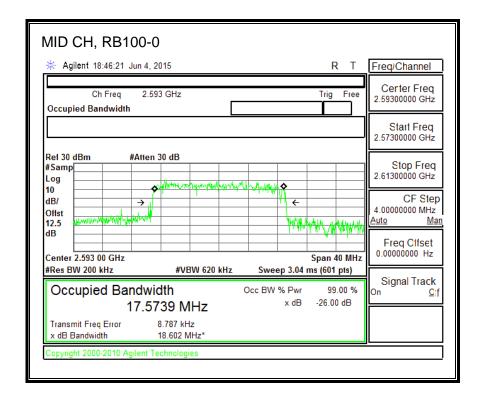


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QPSK, (20.0 MHz BAND WIDTH)



16QAM, (20.0 MHz BAND WIDTH)



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8.3. BANDEDGE AND EMISSION MASK (MODEL: A1634)

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, and §90.691

LIMITS

FCC: §24.238, §27.53

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

FCC: §90.210, and §90.691 (LTE BAND 26)

(a)(1)For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10 (f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2)For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE: Use 100 kHz reference bandwidth.)

FCC: §27.53

- (c) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB:
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 +
- 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations:
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

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FCC: §27.53 (LTE BAND 41)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Show citation box.

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FCC: §90.210, and §90.691

(a)(1)For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(a)(2)For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. {NOTE: Use 100 kHz reference bandwidth.}

TEST PROCEDURE

The transmitter output was connected to a CMW500Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

Set the spectrum analyzer span to include the block edge frequency (704, 716, 824, 849, 1710 and 1755, 1850 and 1910MHz)

Set a marker to point the corresponding band edge frequency in each test case.

Set display line at -13 dBm

Set resolution bandwidth to at least 1% of emission bandwidth.

MODES TESTED

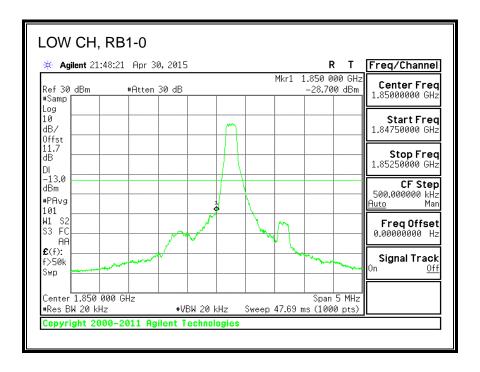
- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25LTE Band 26
- LTE Band 30
- LTE Band 41

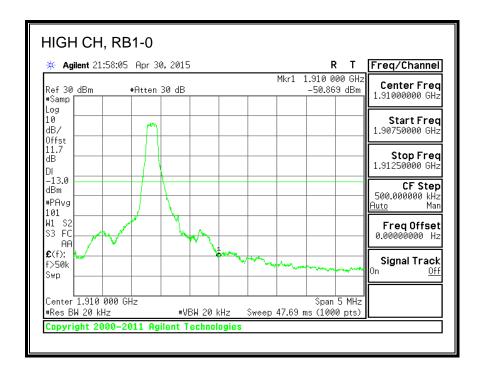
RESULTS

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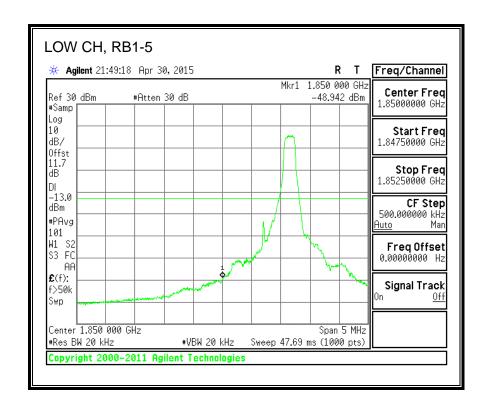
8.3.1. LTE BAND 2 BANDEDGE

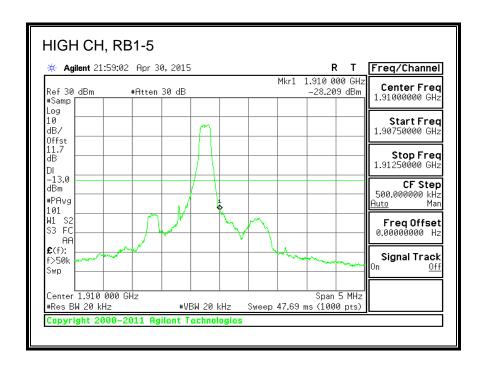
QPSK, (1.4 MHz BAND WIDTH)

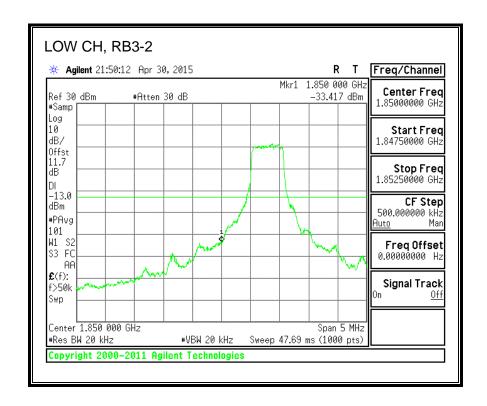


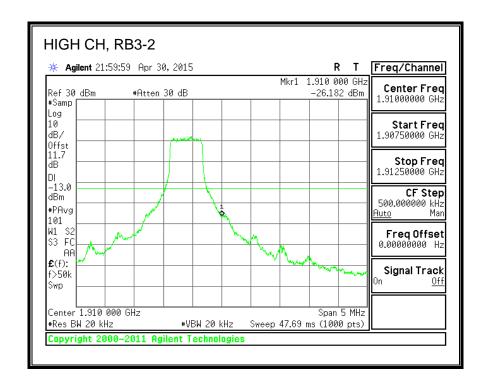


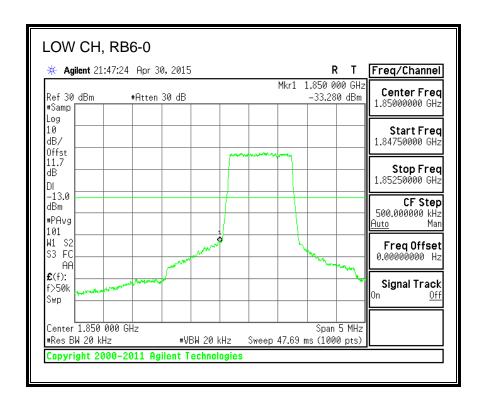
DATE: SEPTEMBER 28, 2015

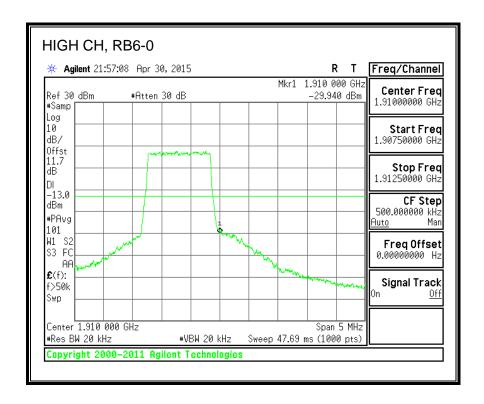




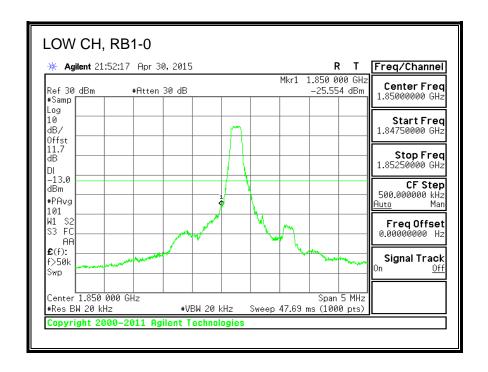


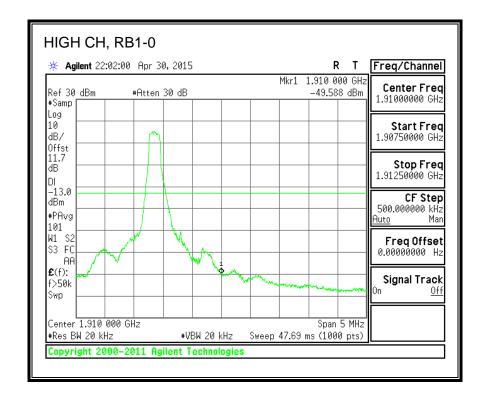


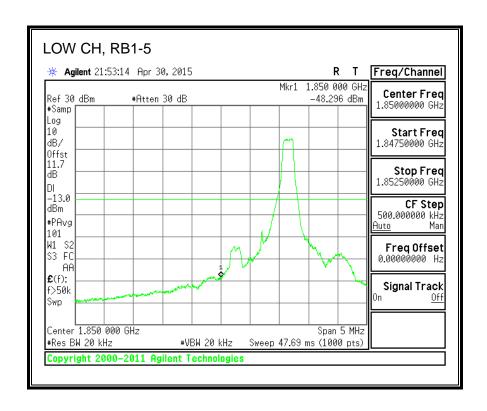


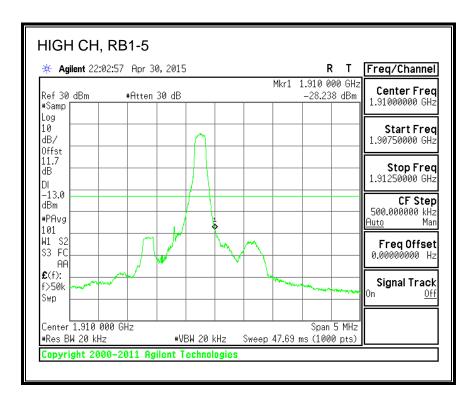


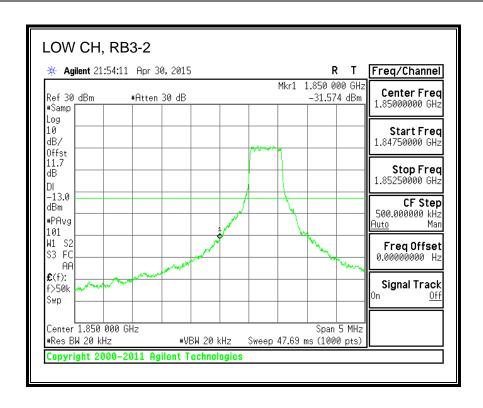
16QAM, (1.4 MHz BAND WIDTH)

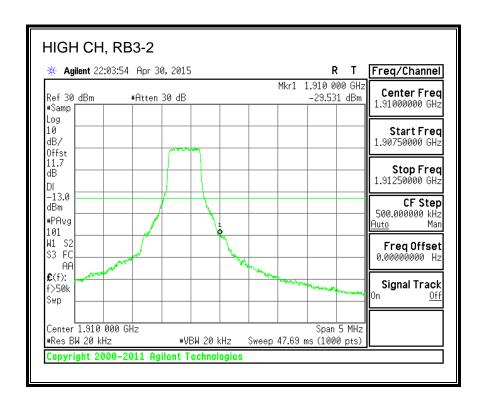


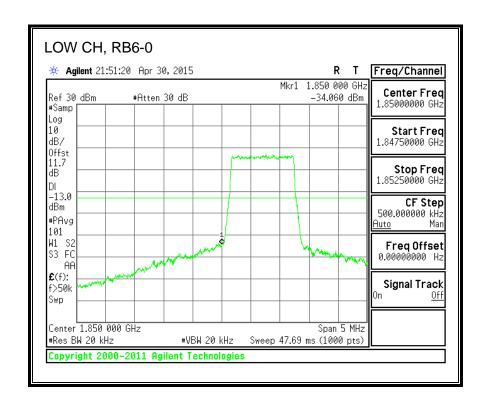


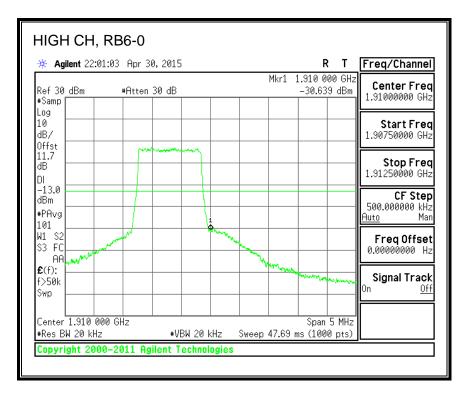




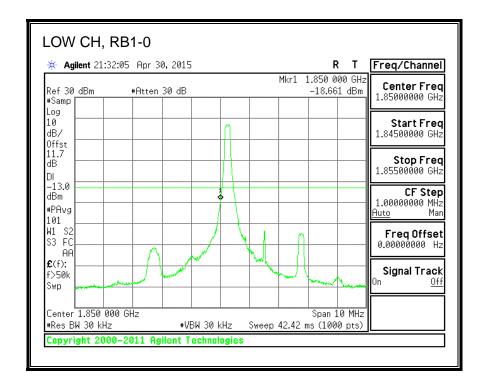


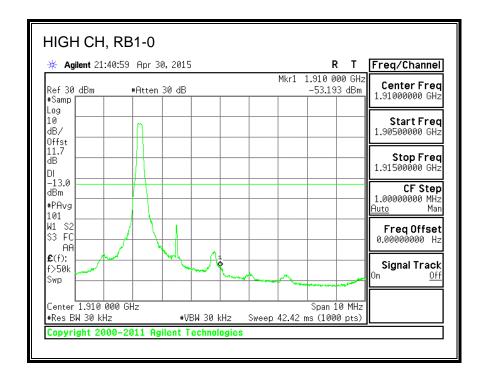


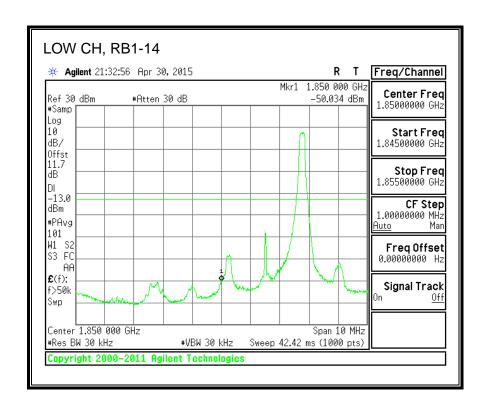


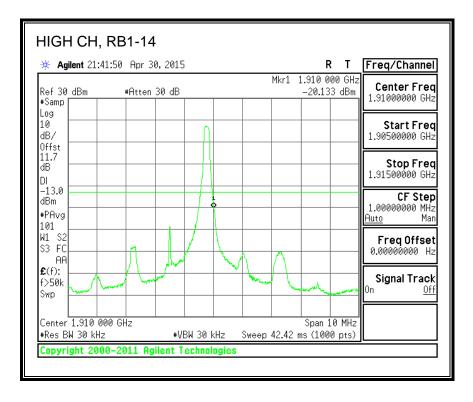


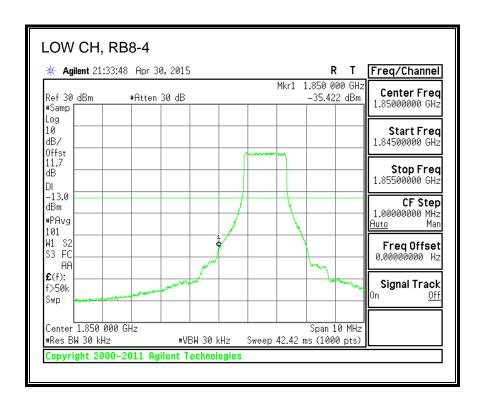
QPSK, (3.0 MHz BAND WIDTH)

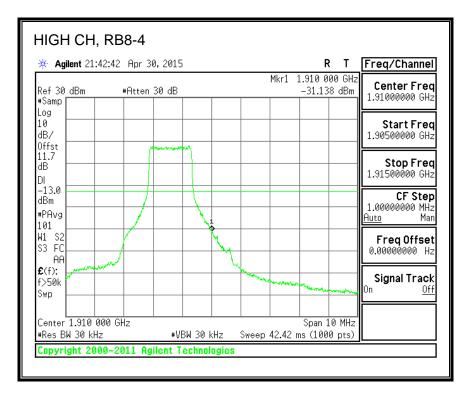


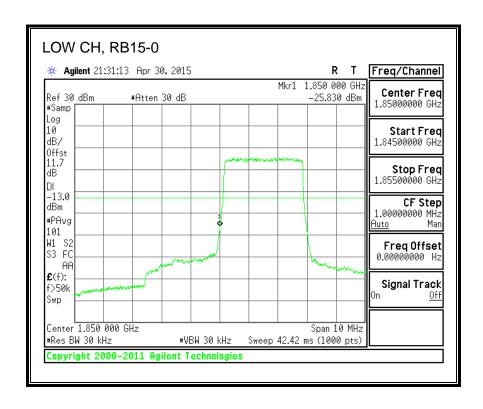


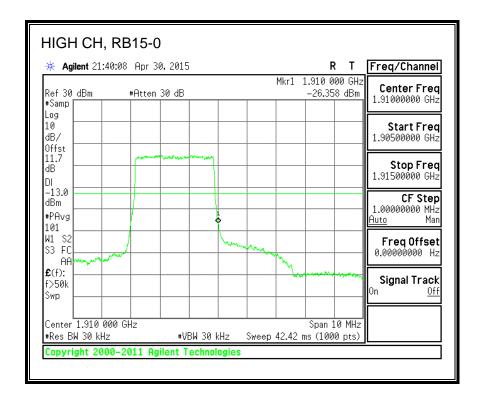




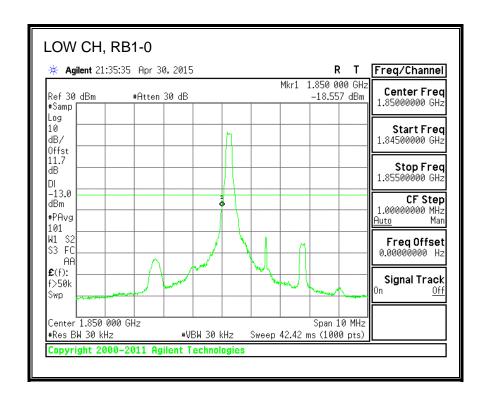


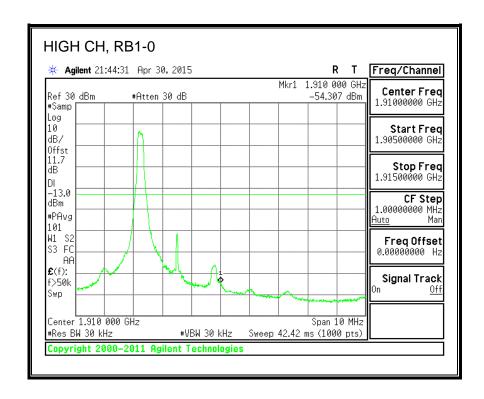


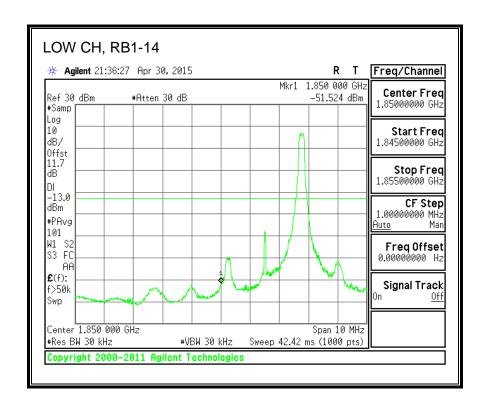


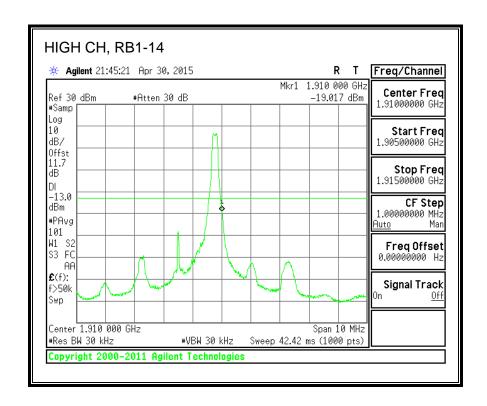


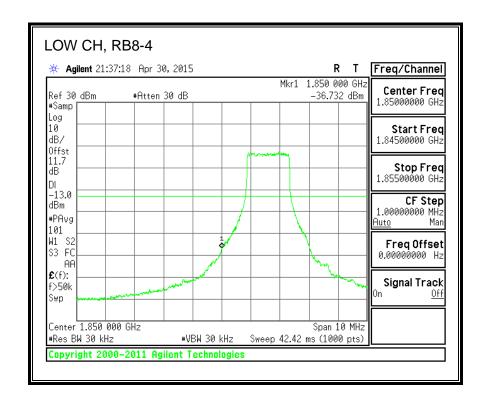
16QAM, (3.0 MHz BAND WIDTH)

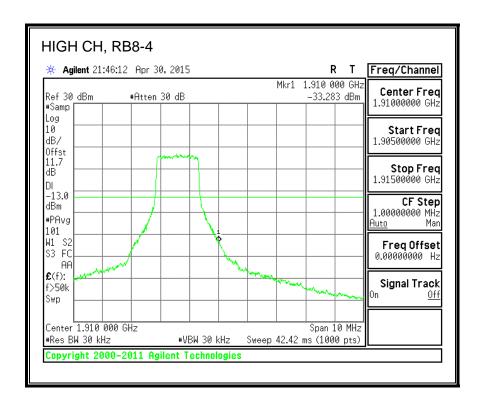


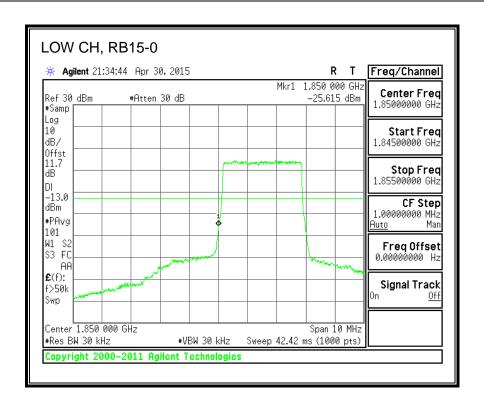


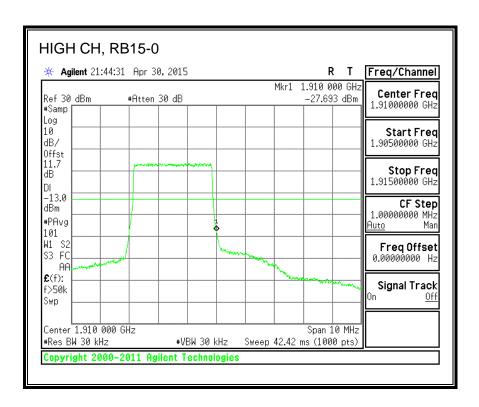




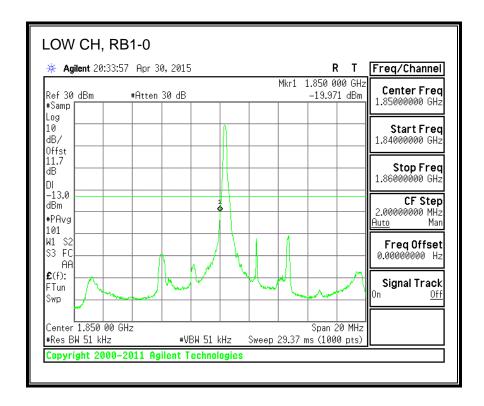


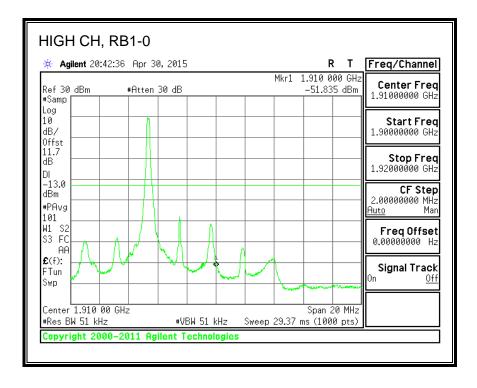


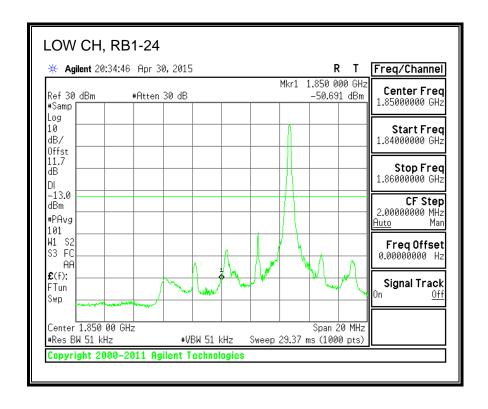


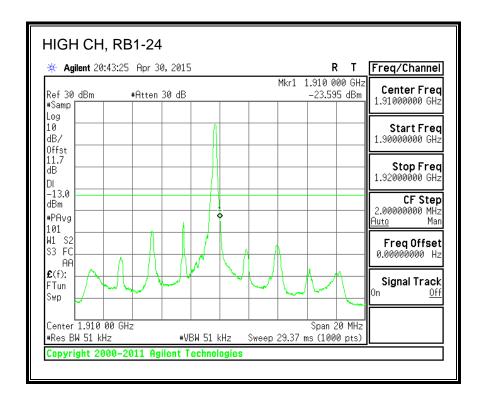


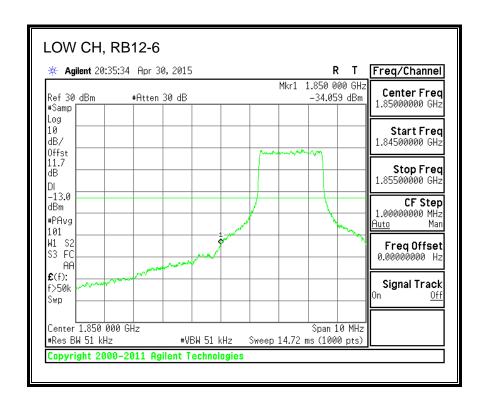
QPSK, (5.0 MHz BAND WIDTH)

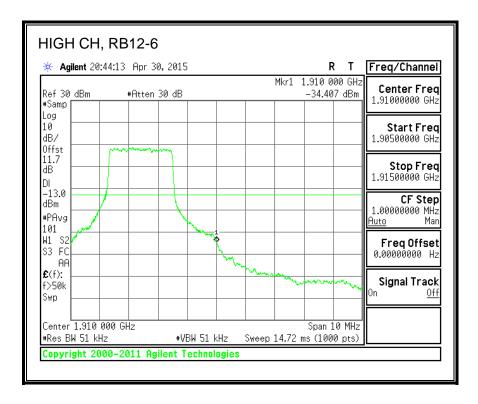


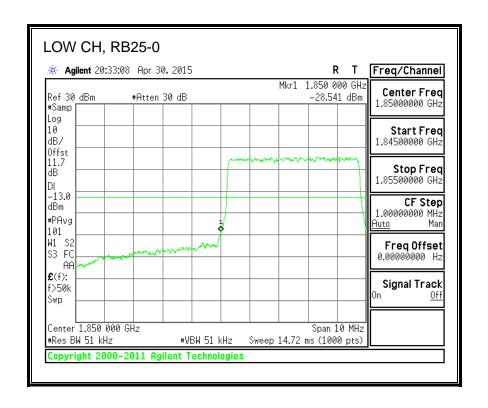


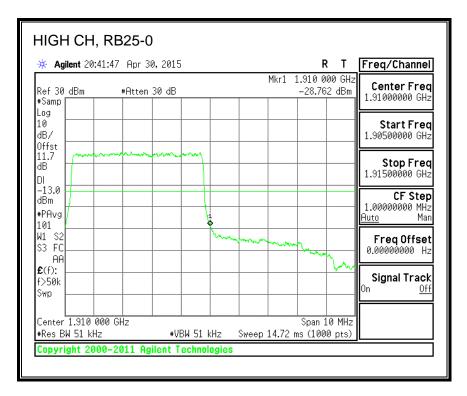




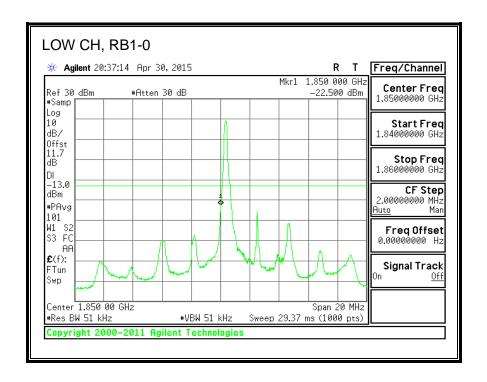


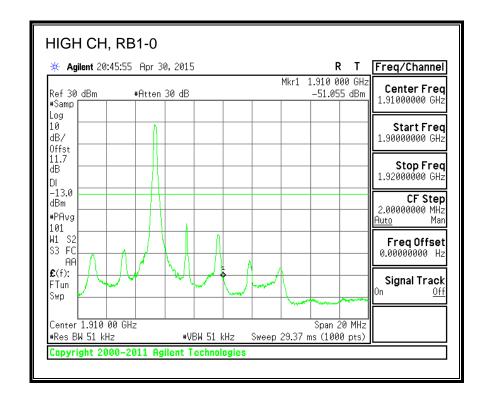


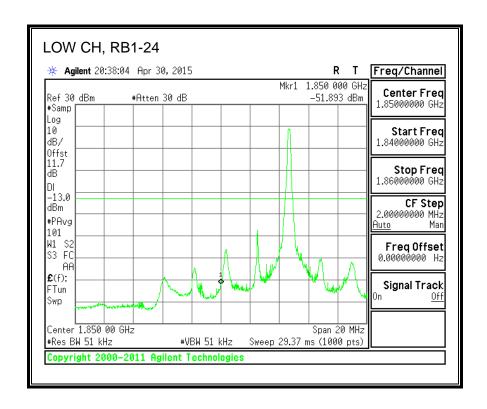


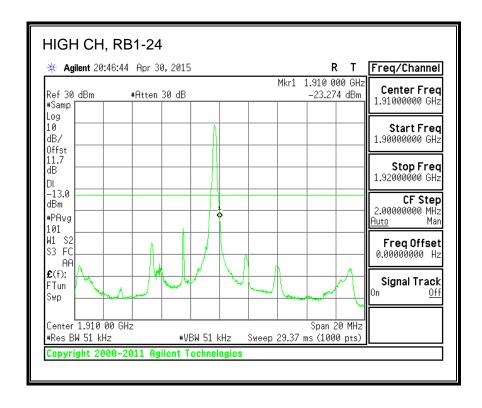


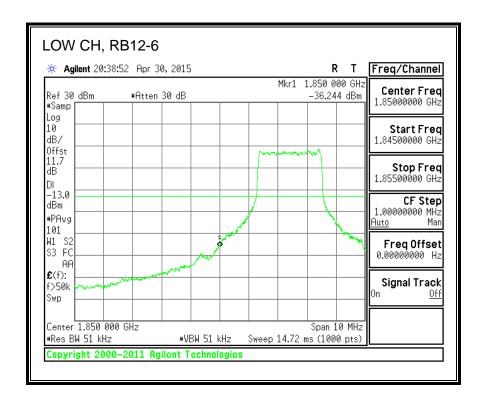
16QAM, (5.0 MHz BAND WIDTH)

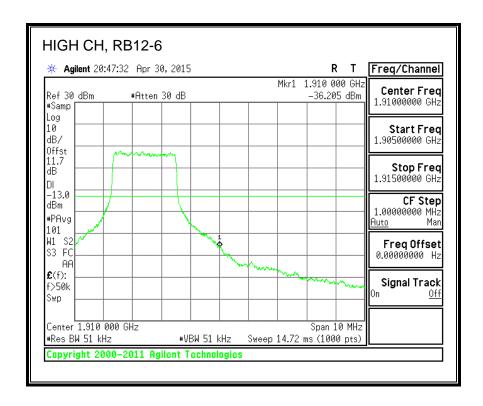


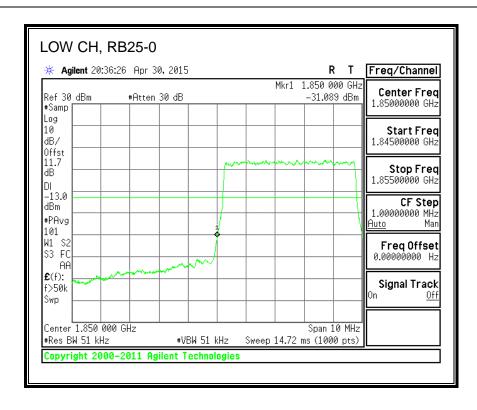


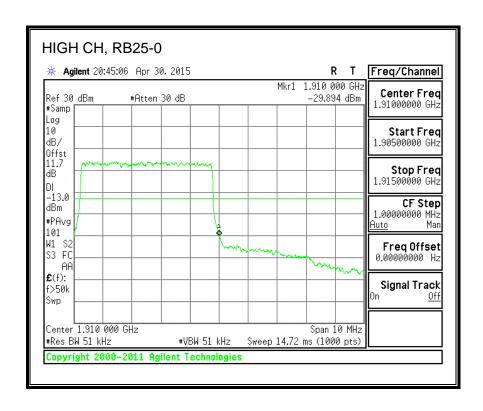




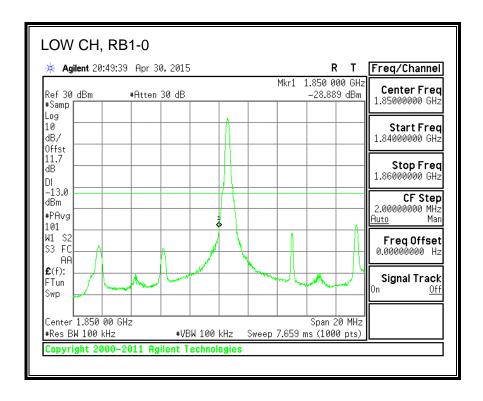


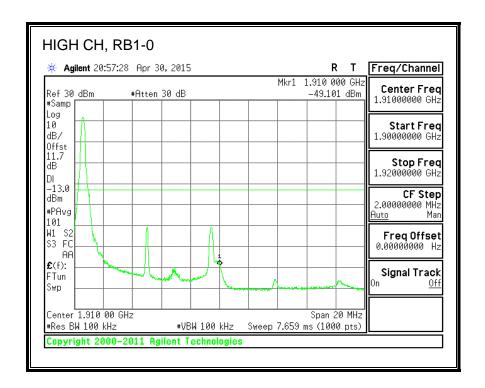


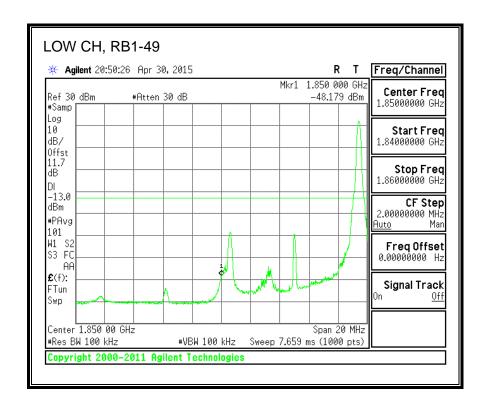


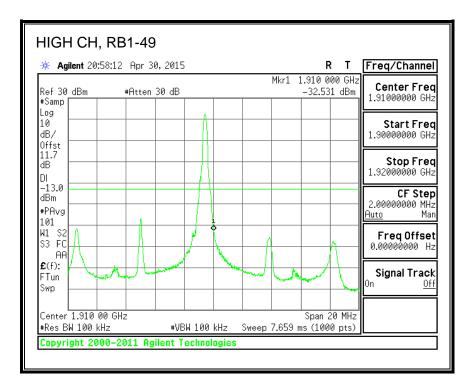


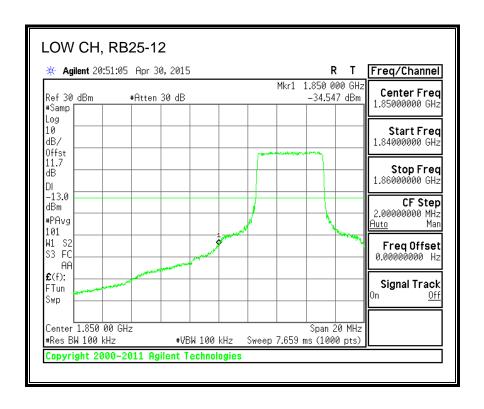
QPSK, (10.0 MHz BAND WIDTH)

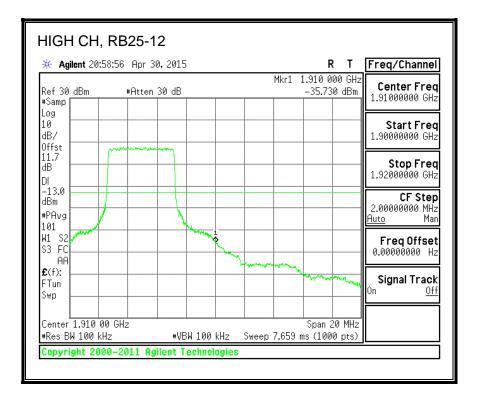


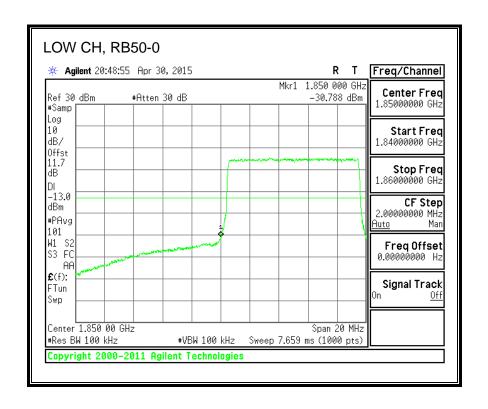


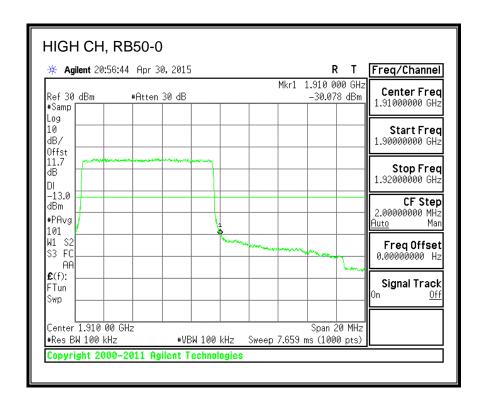




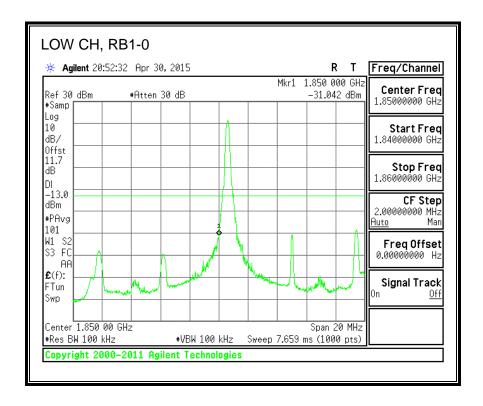


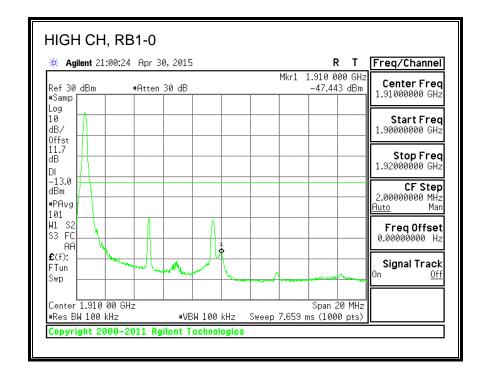


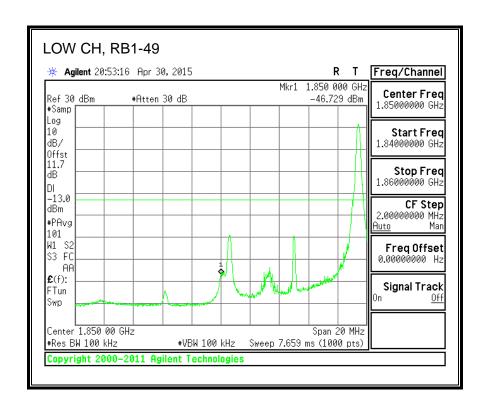


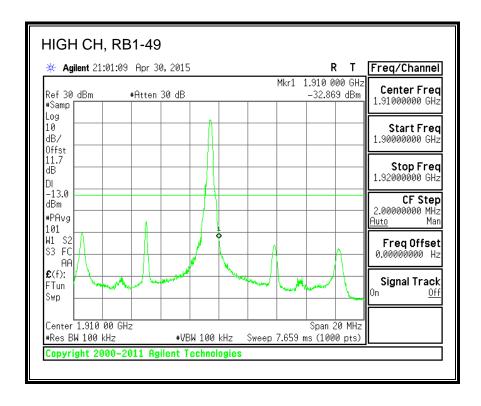


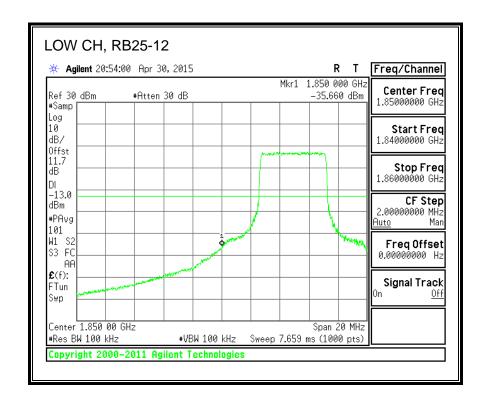
16QAM, (10.0 MHz BAND WIDTH)

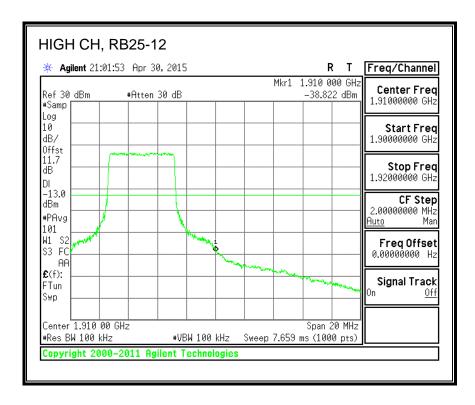


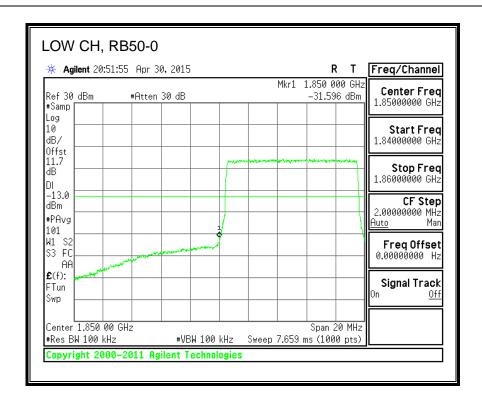


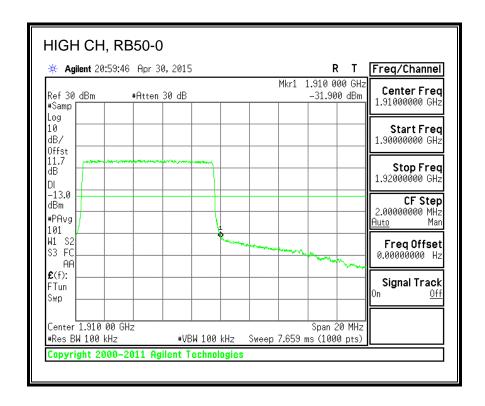




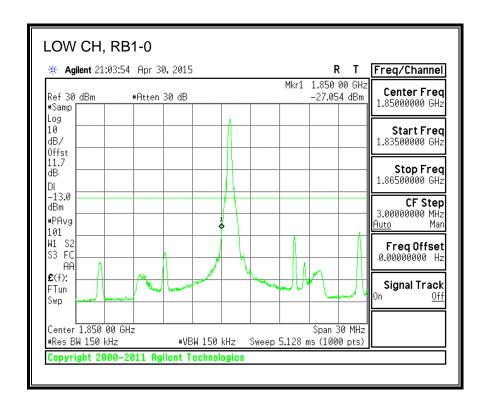


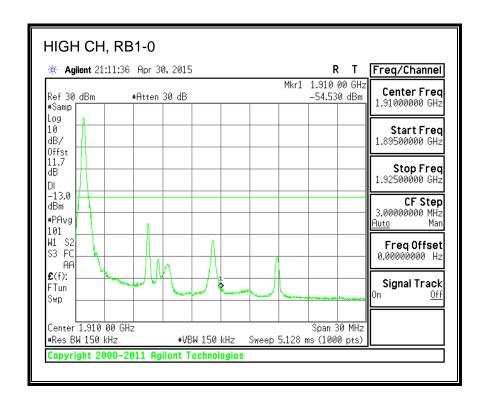


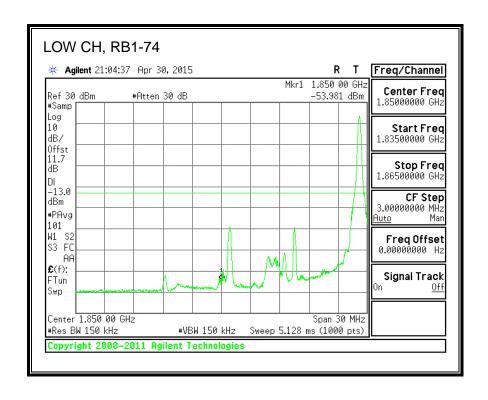


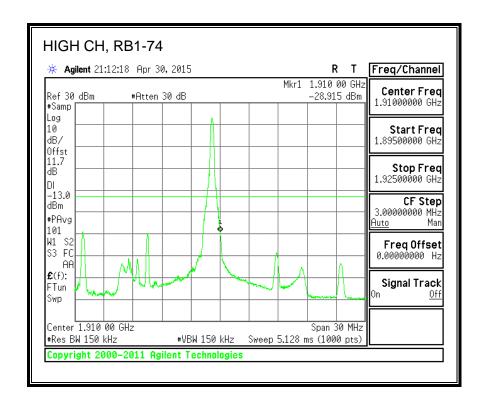


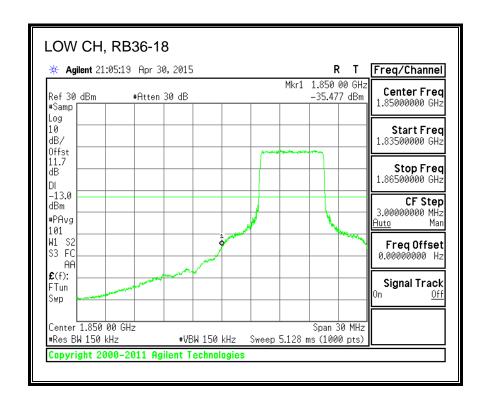
QPSK, (15.0 MHz BAND WIDTH)

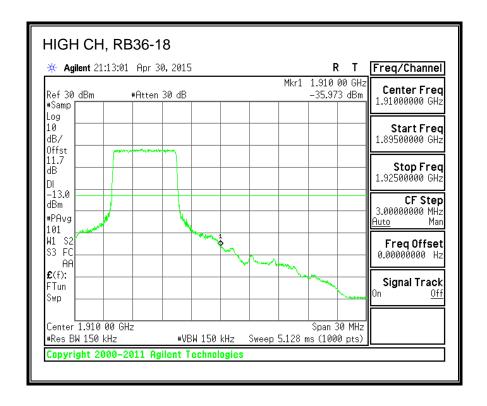


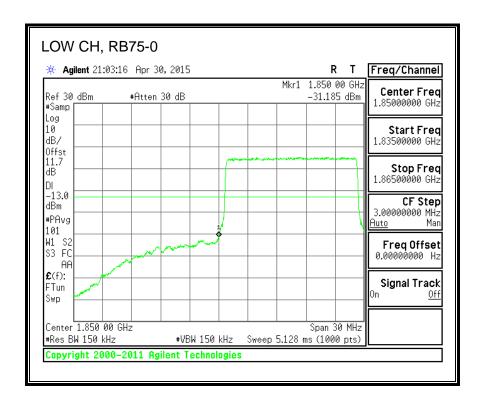


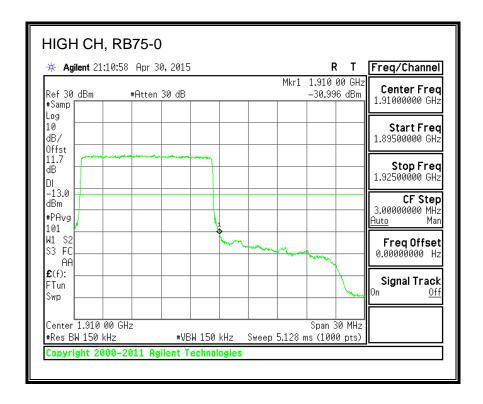




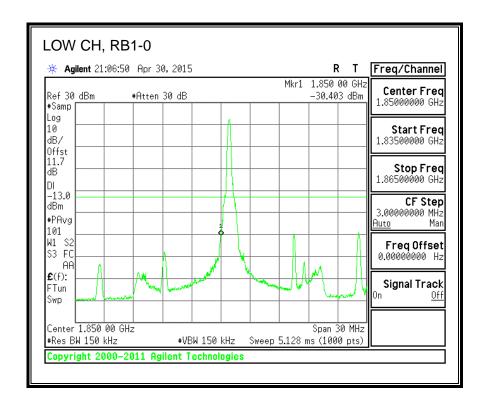


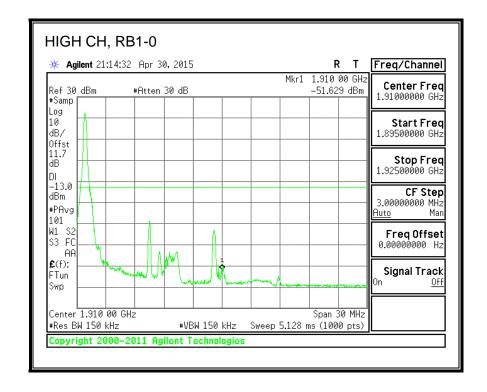


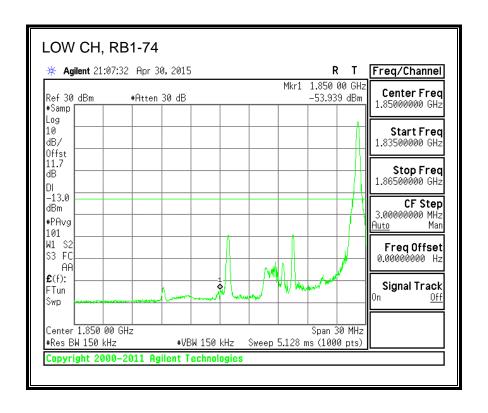


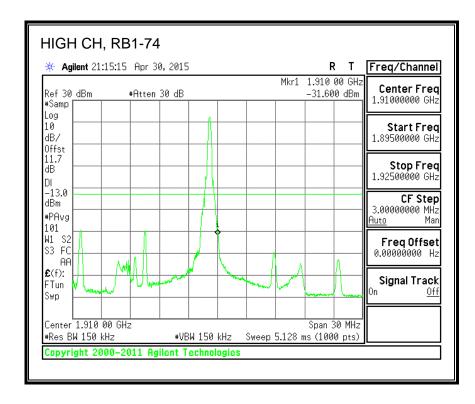


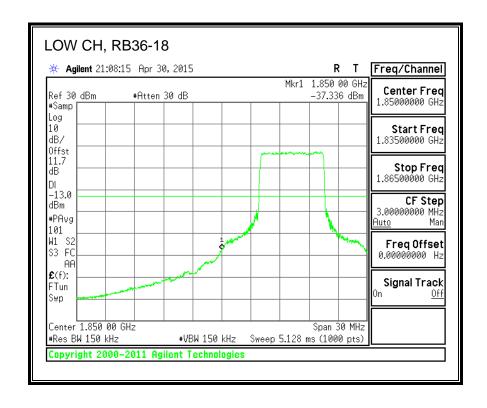
16QAM, (15.0 MHz BAND WIDTH)

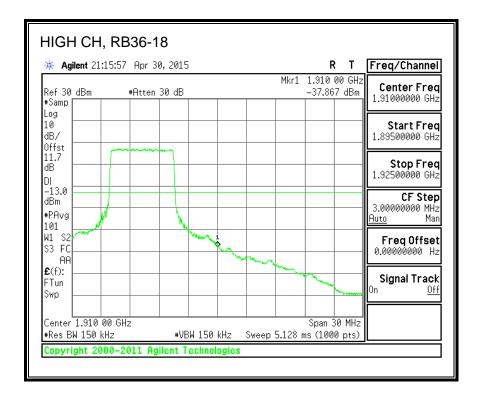


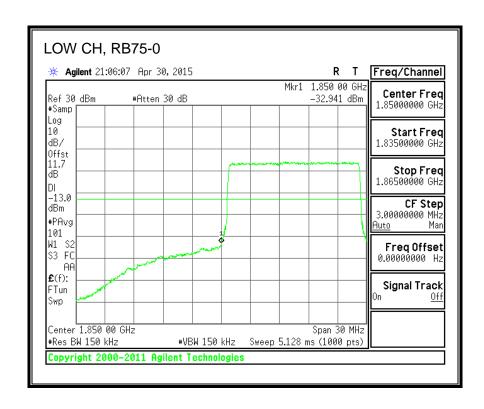


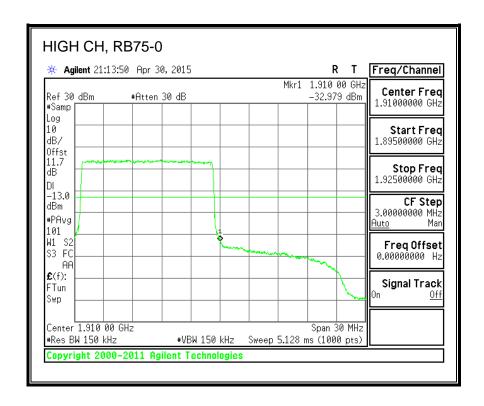




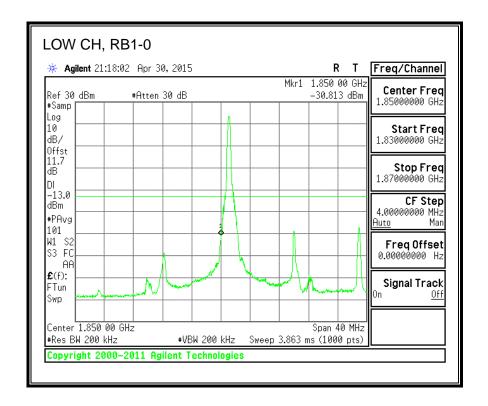


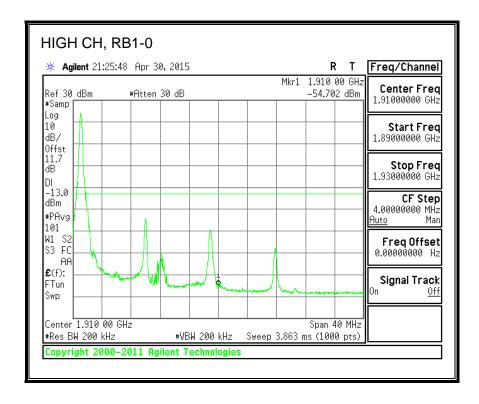


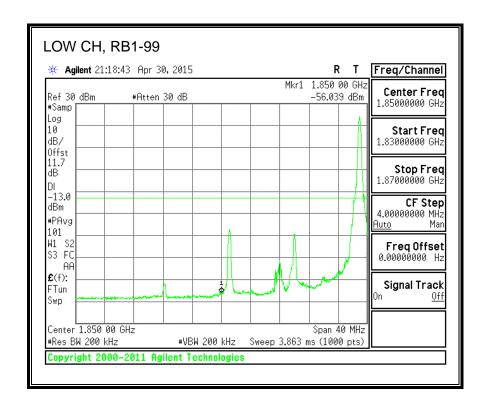


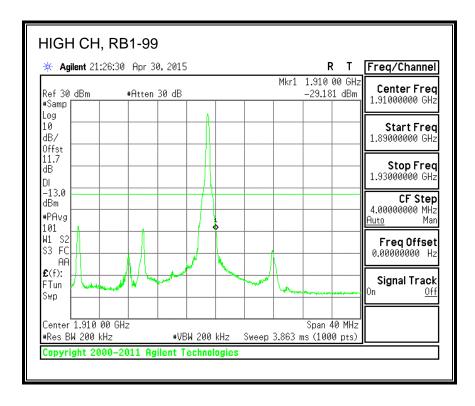


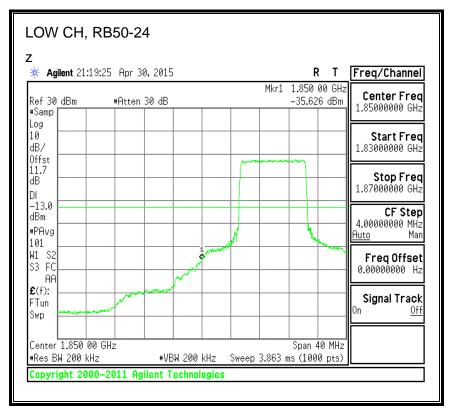
QPSK, (20.0 MHz BAND WIDTH)

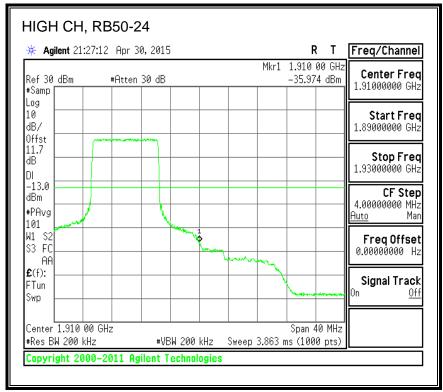


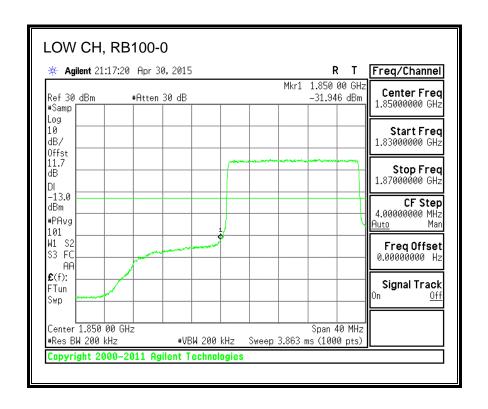


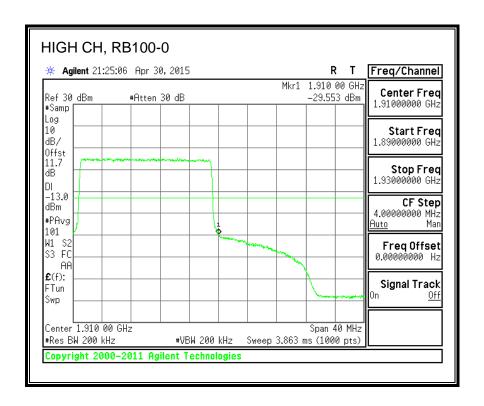




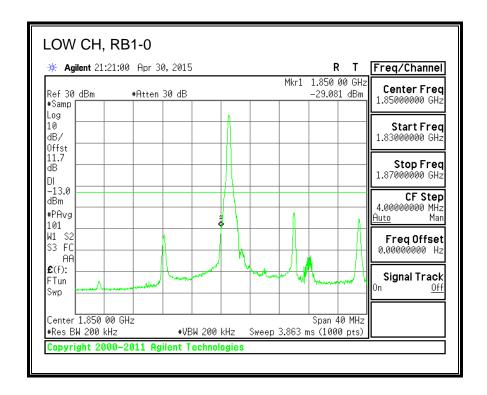


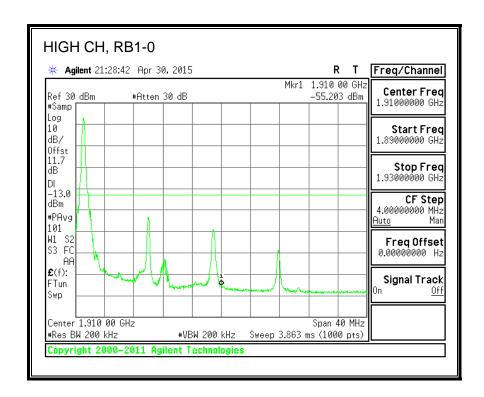






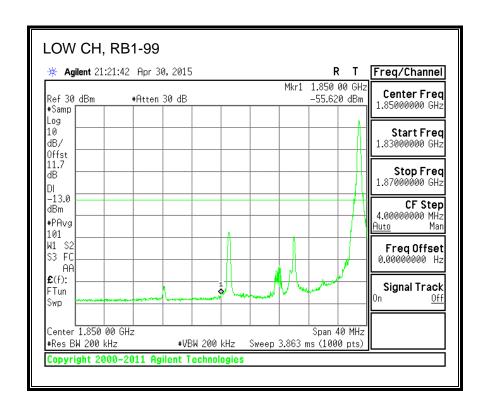
16QAM, (20.0 MHz BAND WIDTH)

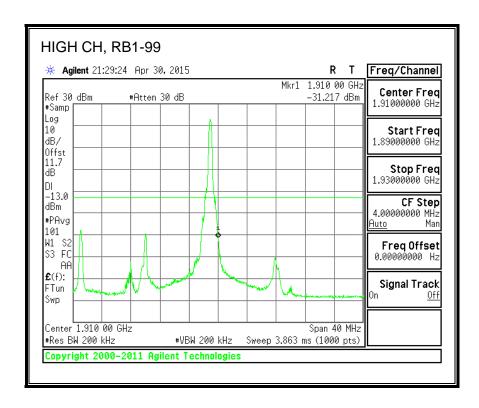


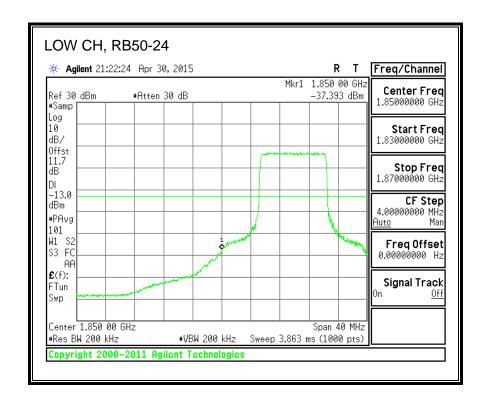


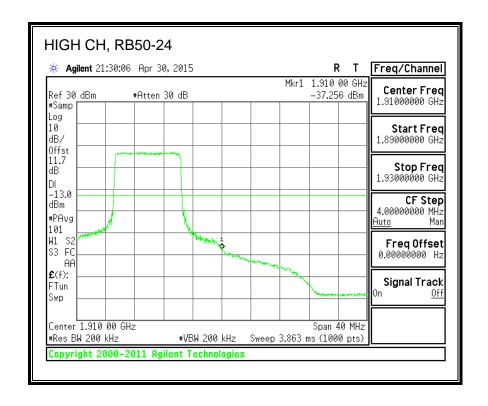
DATE: SEPTEMBER 28, 2015

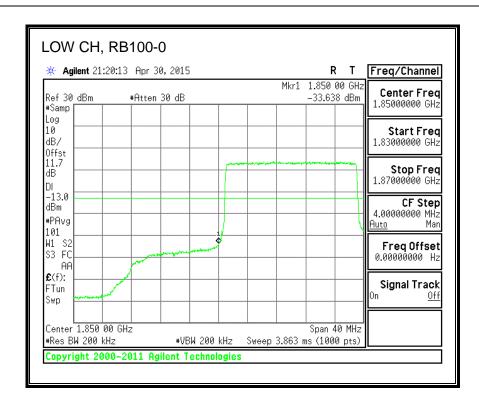
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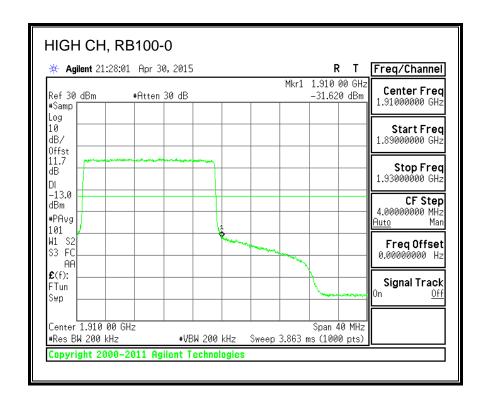






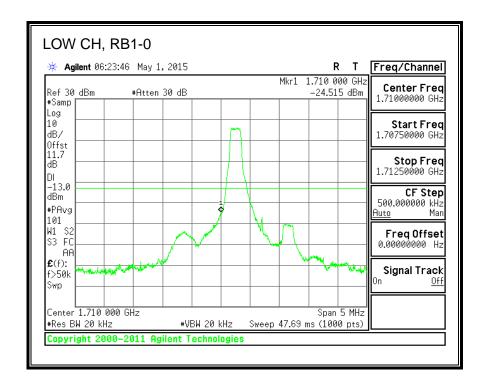


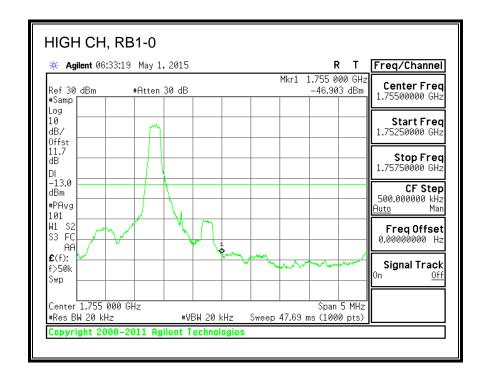




8.3.2. LTE BAND 4 BANDEDGE

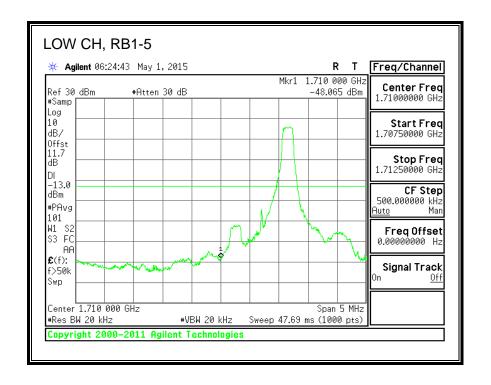
QPSK, (1.4 MHz BAND WIDTH)

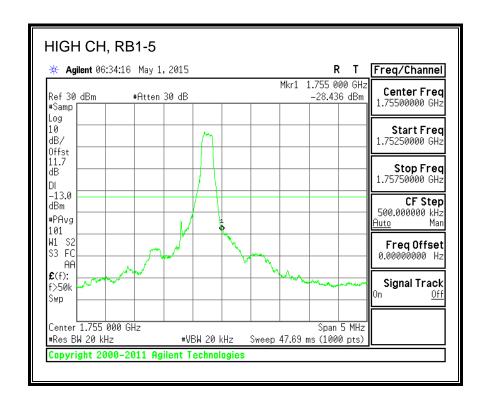


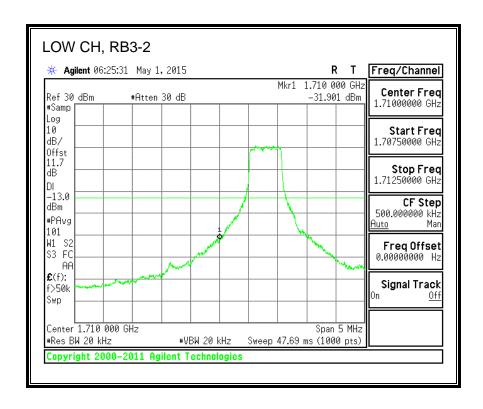


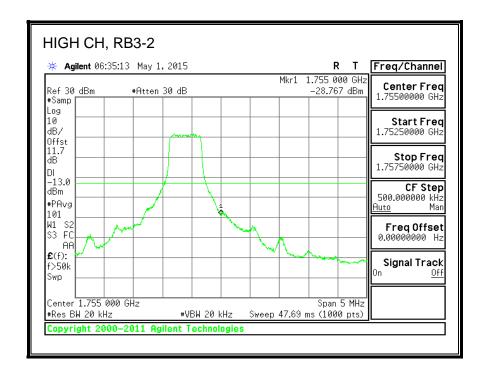
DATE: SEPTEMBER 28, 2015

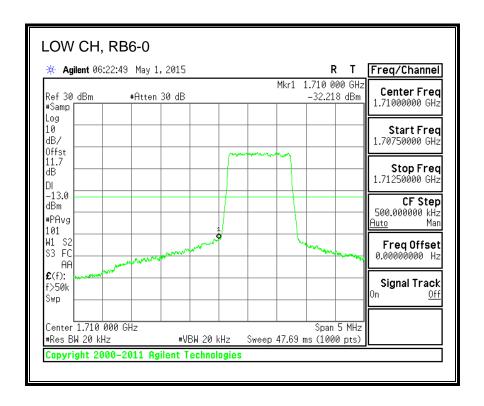
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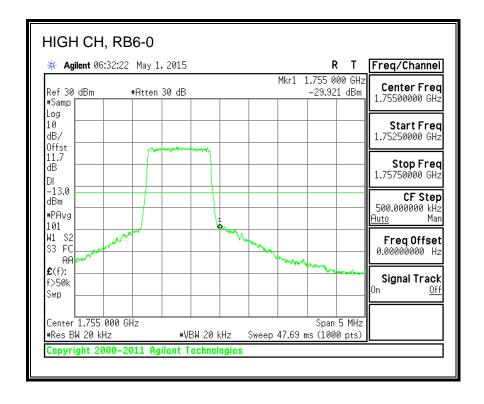




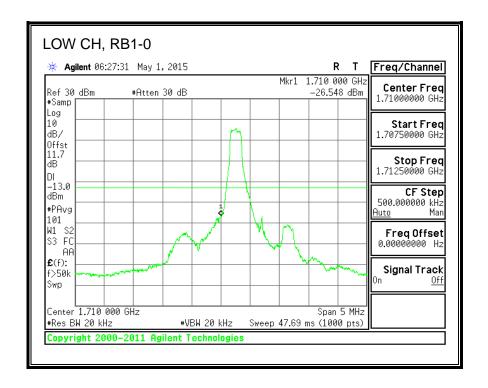


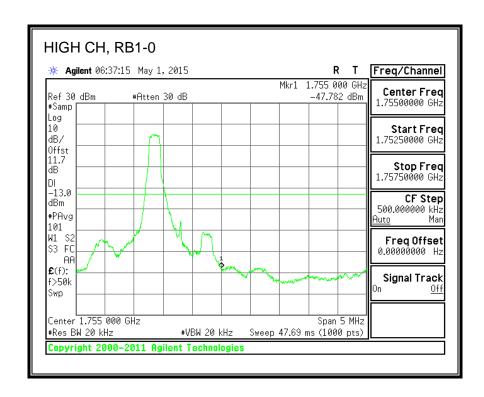


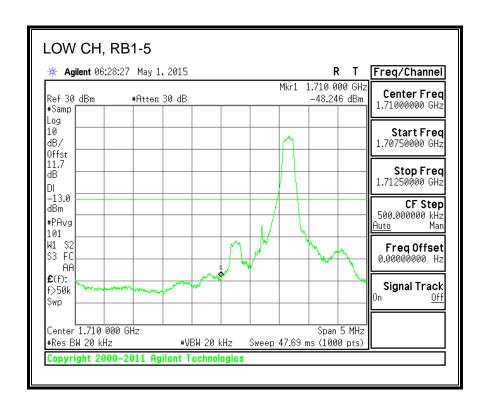


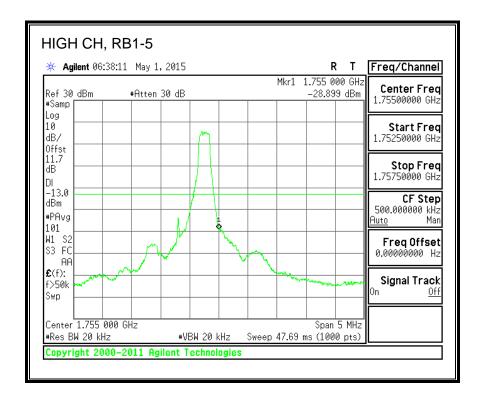


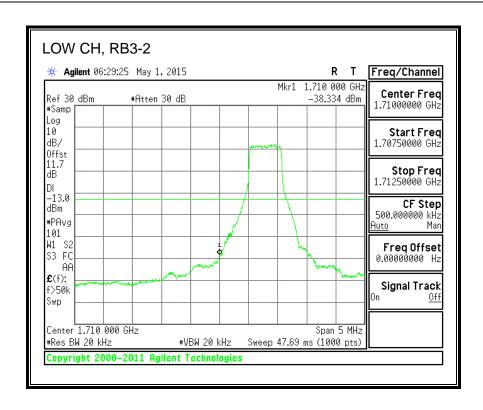
16QAM, (1.4 MHz BAND WIDTH)

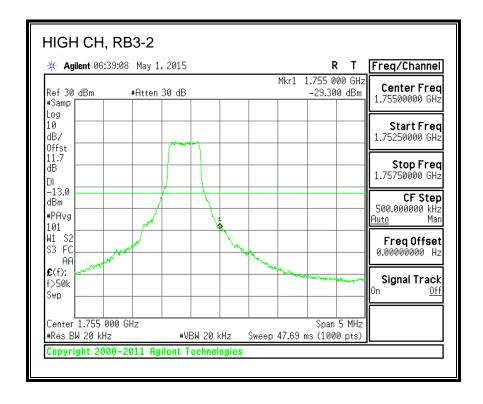


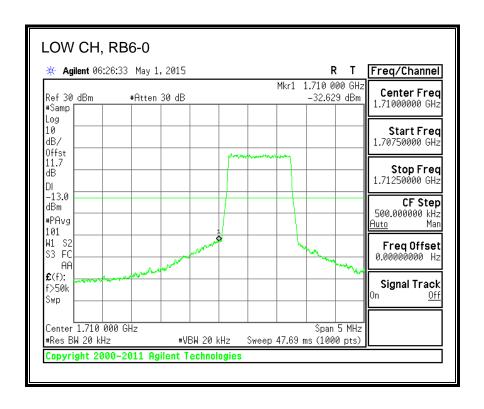


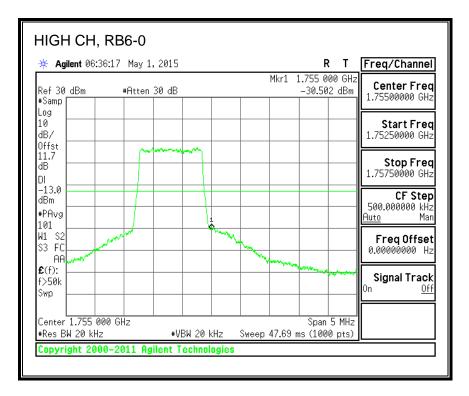




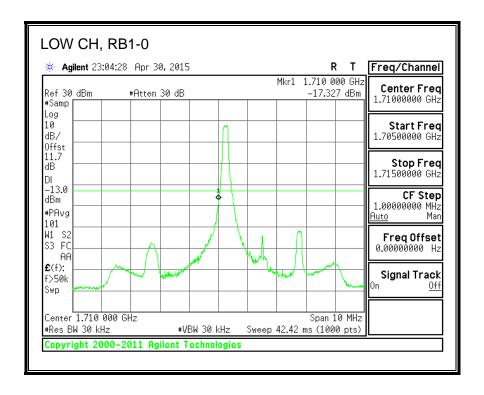


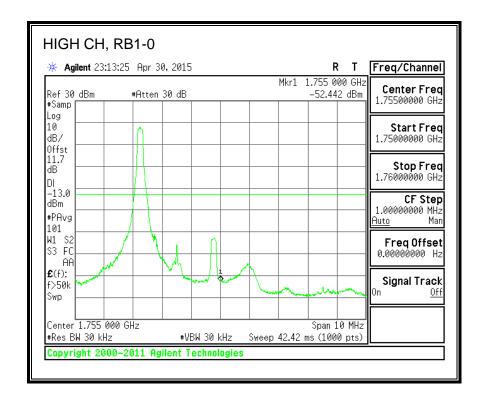


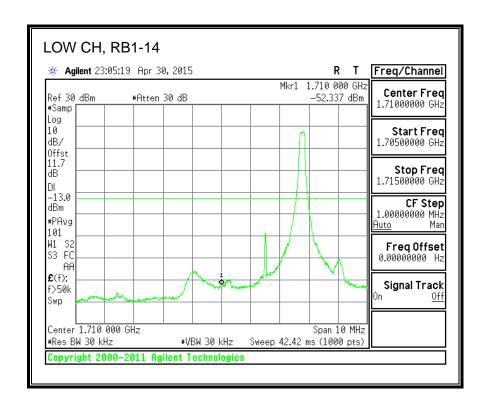


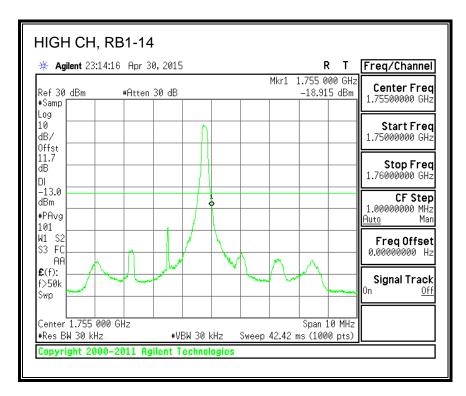


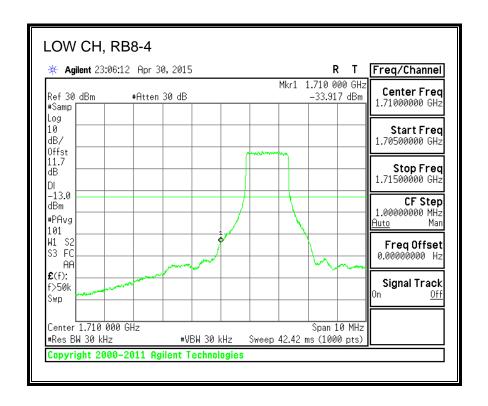
QPSK, (3.0 MHz BAND WIDTH)

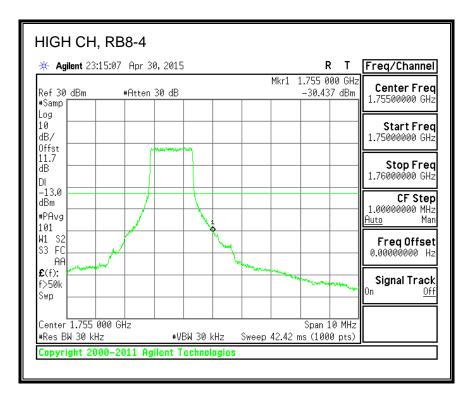


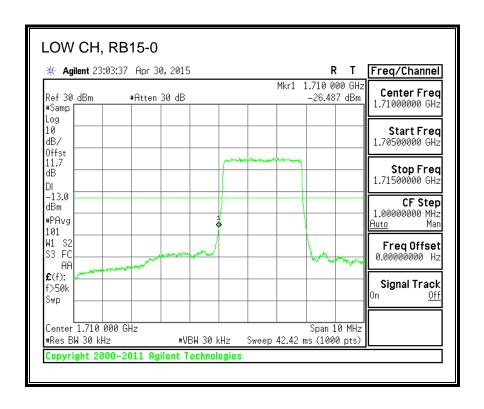


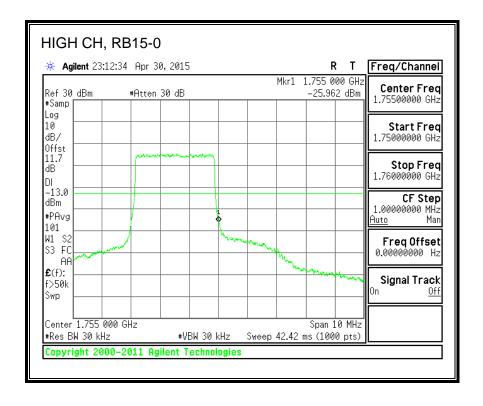




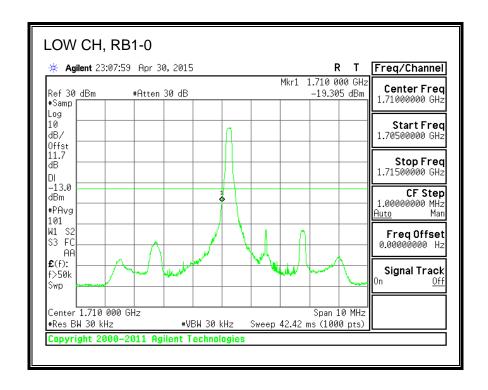


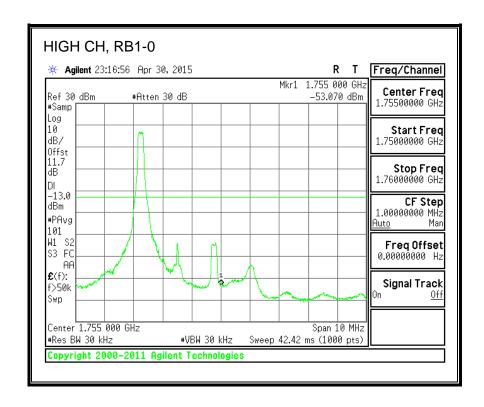


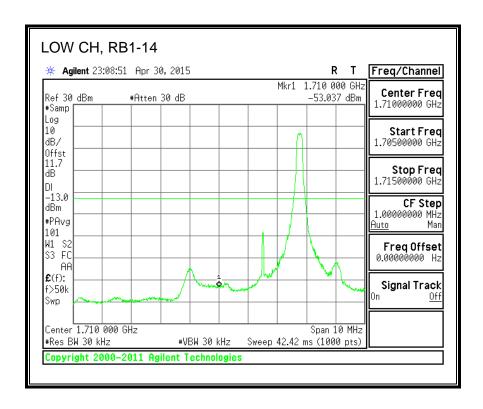


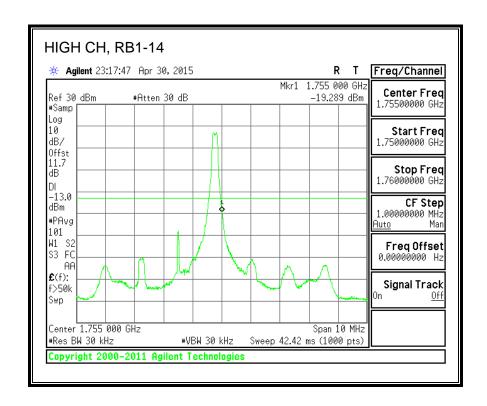


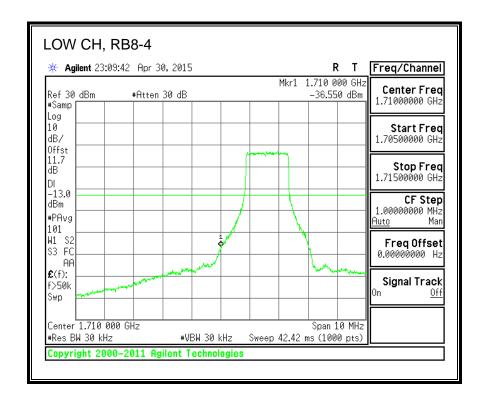
16QAM, (3.0 MHz BAND WIDTH)

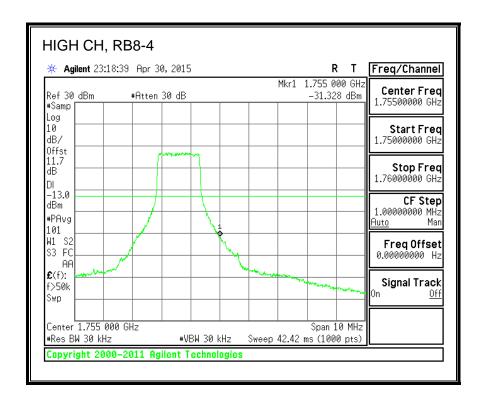


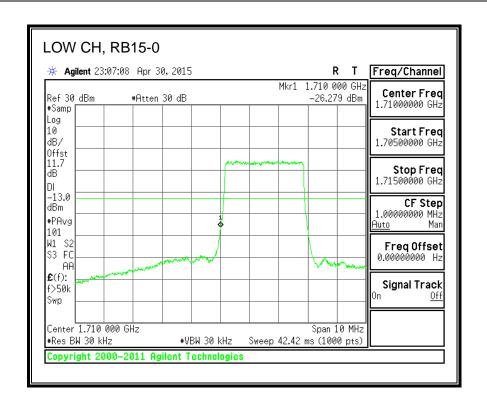


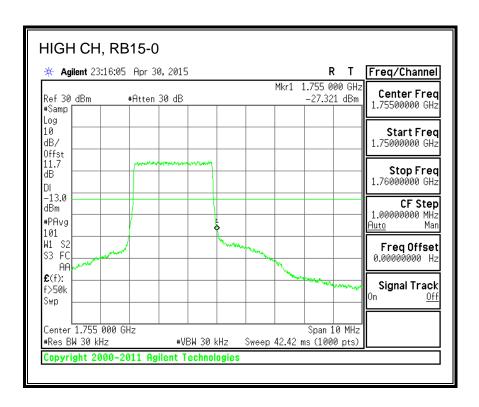




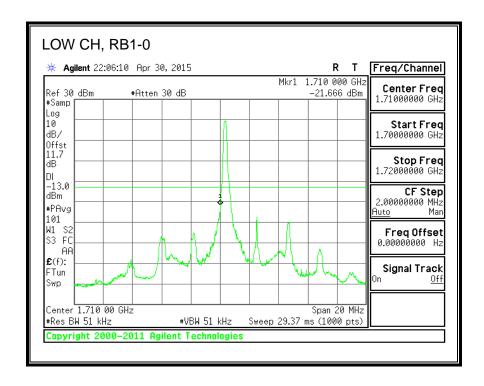


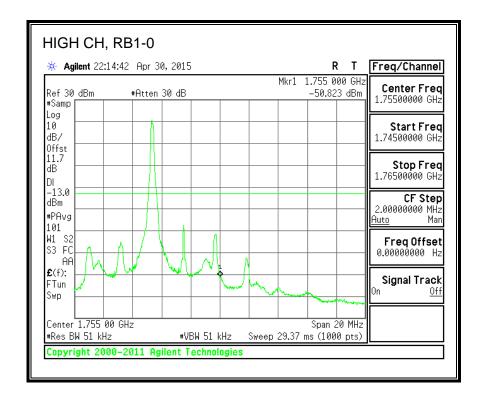


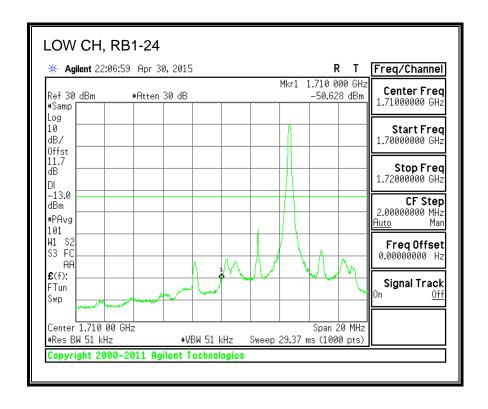


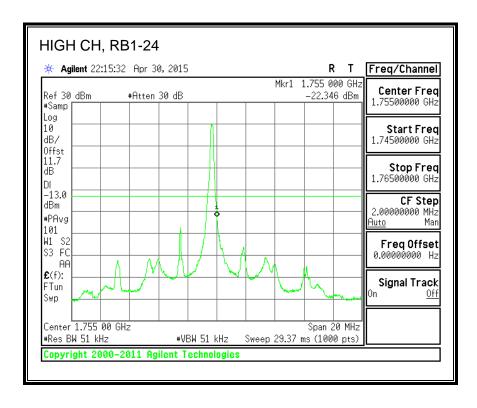


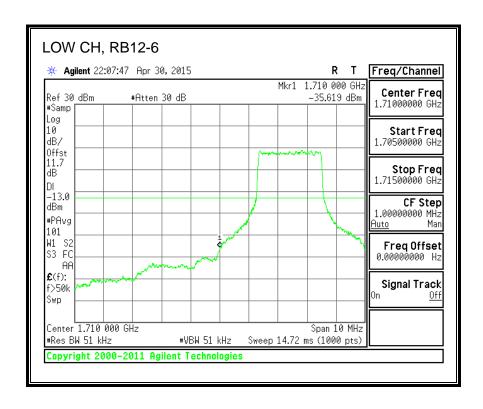
QPSK, (5.0 MHz BAND WIDTH)

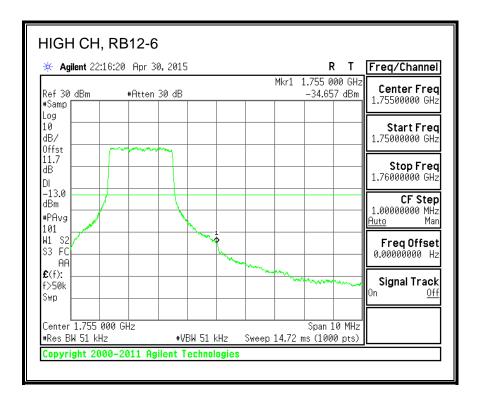


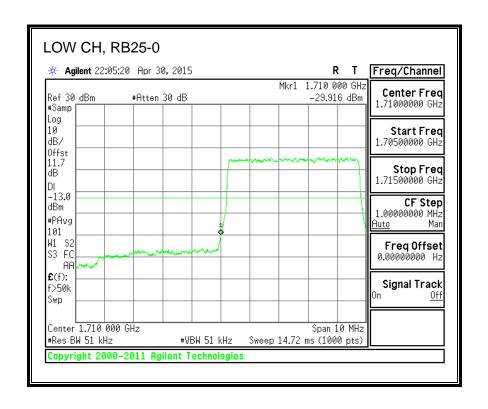


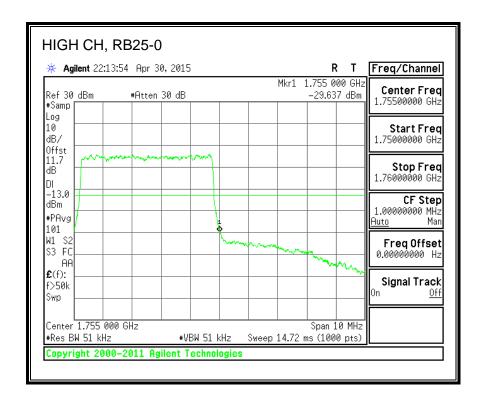




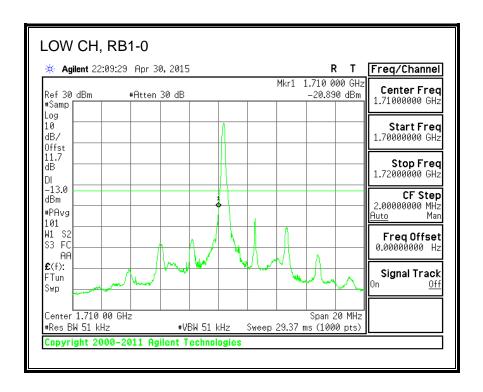


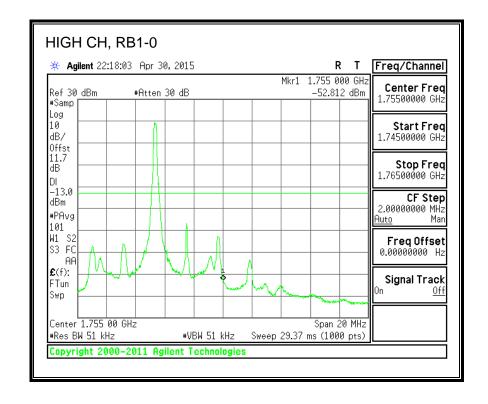


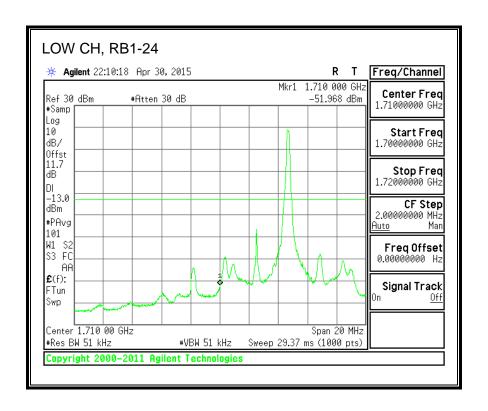


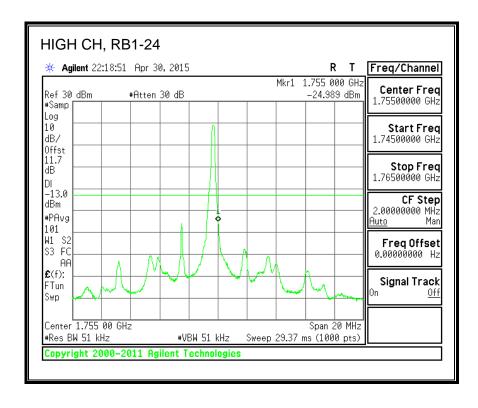


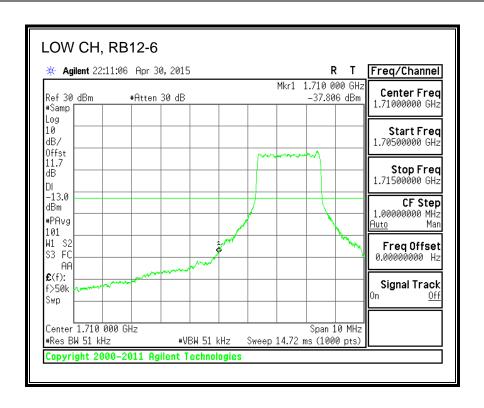
16QAM, (5.0 MHz BAND WIDTH)

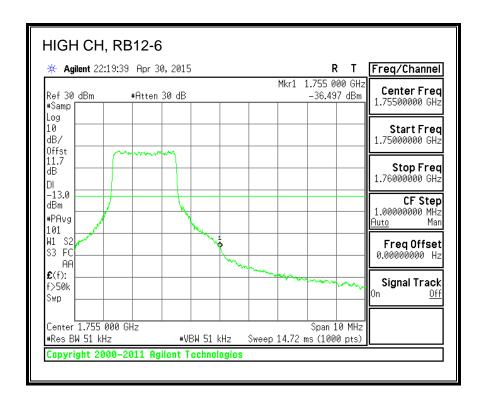


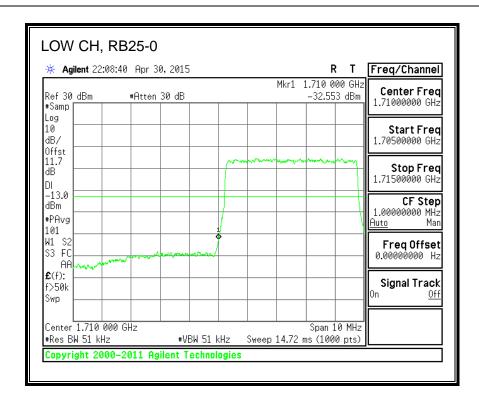


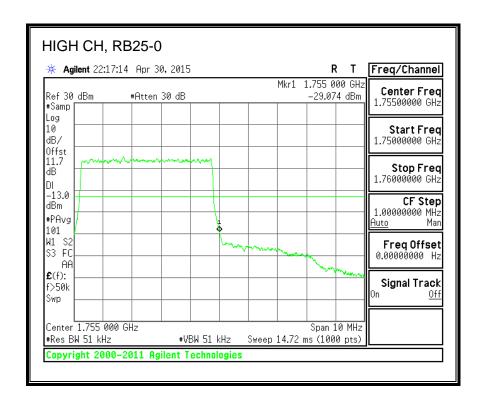




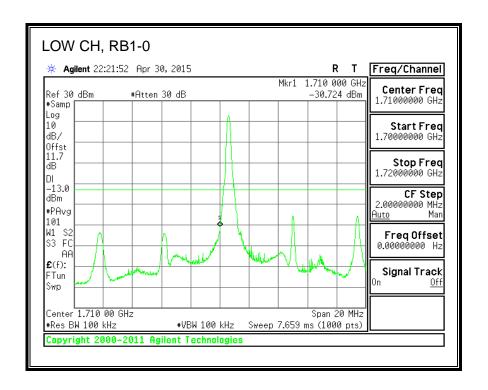


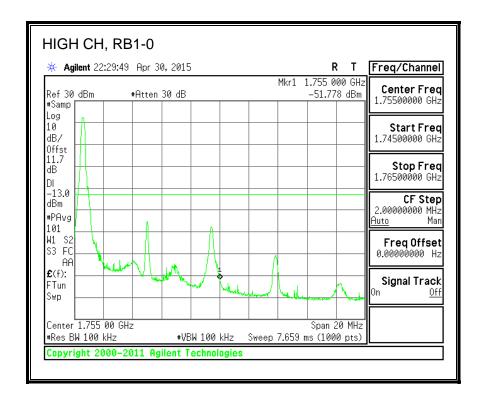


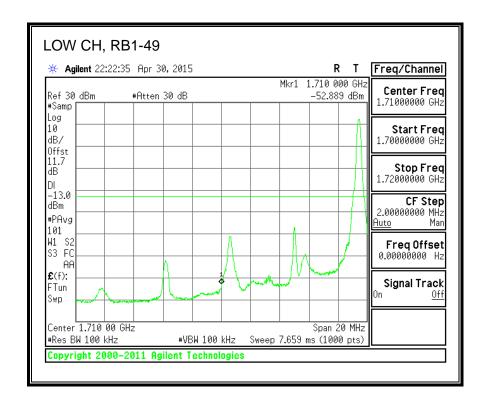


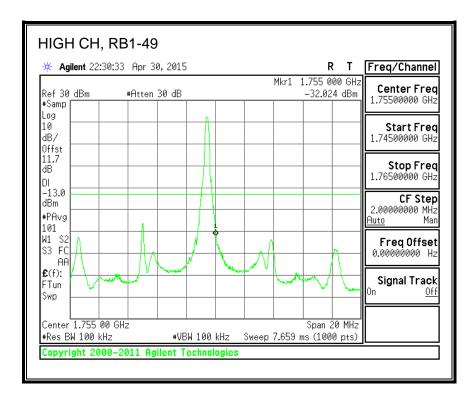


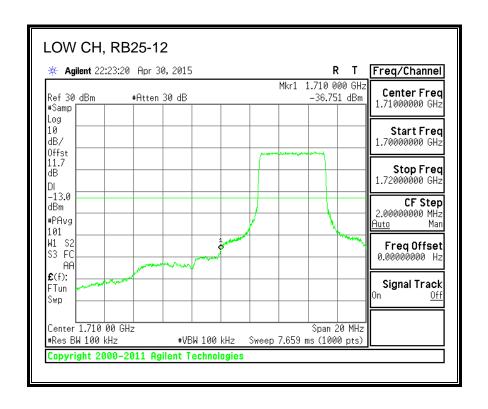
QPSK, (10.0 MHz BAND WIDTH)

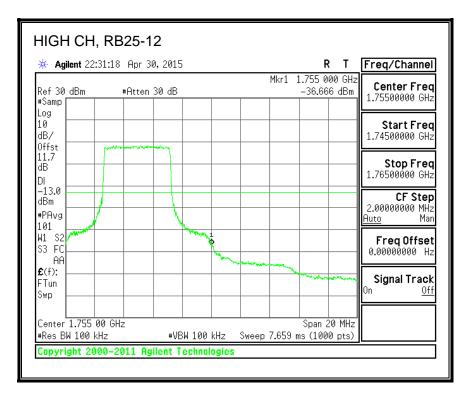


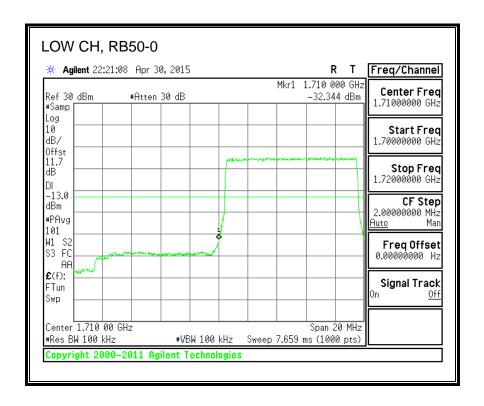


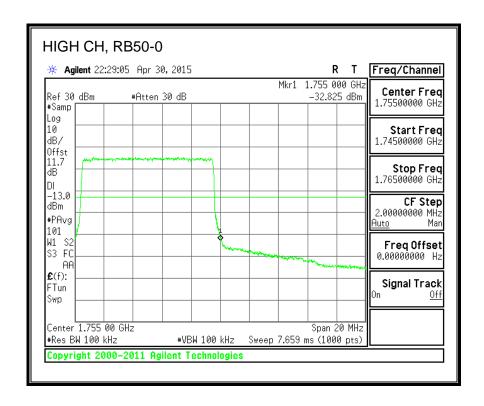












16QAM, (10.0 MHz BAND WIDTH)

