Appendix for Band 13

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.52	PASS
		1	12	23.47	PASS
		1	24	23.22	PASS
		12	0	22.44	PASS
		12	6	22.39	PASS
		12	13	22.29	PASS
		25	0	22.30	PASS
	MCH	1	0	23.34	PASS
		1	12	23.15	PASS
		1	24	22.95	PASS
		12	0	22.30	PASS
		12	6	22.14	PASS
		12	13	22.06	PASS
		25	0	22.09	PASS
	HCH	1	0	23.04	PASS
		1	12	22.81	PASS
		1	24	22.56	PASS
		12	0	21.99	PASS
		12	6	21.84	PASS
		12	13	21.76	PASS
		25	0	21.93	PASS
16QAM	LCH	1	0	22.81	PASS
		1	12	22.74	PASS
		1	24	22.61	PASS
		12	0	21.53	PASS
		12	6	21.43	PASS
		12	13	21.31	PASS
		25	0	21.24	PASS
	MCH	1	0	22.41	PASS
		1	12	22.26	PASS
		1	24	22.06	PASS
		12	0	21.15	PASS
		12	6	21.02	PASS

		12	13	20.87	PASS
		25	0	21.04	PASS
	HCH	1	0	22.14	PASS
		1	12	21.91	PASS
		1	24	21.73	PASS
		12	0	21.88	PASS
		12	6	21.78	PASS
		12	13	21.72	PASS
		25	0	21.78	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.99	PASS
		1	24	22.85	PASS
		1	49	22.32	PASS
		25	0	22.37	PASS
		25	12	22.11	PASS
		25	25	21.97	PASS
		50	0	22.31	PASS
	MCH	1	0	23.62	PASS
		1	24	22.93	PASS
		1	49	22.19	PASS
		25	0	22.36	PASS
		25	12	22.05	PASS
		25	25	21.95	PASS
		50	0	22.31	PASS
	HCH	1	0	22.99	PASS
		1	24	22.89	PASS
		1	49	22.35	PASS
		25	0	22.36	PASS
		25	12	22.02	PASS
		25	25	21.97	PASS
		50	0	22.28	PASS
16QAM	LCH	1	0	22.36	PASS
		1	24	22.12	PASS
		1	49	21.46	PASS
		25	0	21.34	PASS
		25	12	21.09	PASS
		25	25	21.86	PASS
		50	0	21.06	PASS
	MCH	1	0	22.39	PASS

		1	24	22.11	PASS
		1	49	21.43	PASS
		25	0	21.32	PASS
		25	12	21.05	PASS
		25	25	21.82	PASS
		50	0	21.01	PASS
	HCH	1	0	22.37	PASS
		1	24	22.09	PASS
		1	49	21.54	PASS
		25	0	21.32	PASS
		25	12	21.07	PASS
		25	25	21.84	PASS
		50	0	21.03	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.42	<13	PASS
		1	12	4.53	<13	PASS
		1	24	4.74	<13	PASS
		12	0	4.51	<13	PASS
		12	6	4.95	<13	PASS
		12	13	5.19	<13	PASS
		25	0	5.1	<13	PASS
	MCH	1	0	4.95	<13	PASS
		1	12	4.86	<13	PASS
		1	24	4.44	<13	PASS
		12	0	5.12	<13	PASS
		12	6	5.1	<13	PASS
		12	13	4.99	<13	PASS
		25	0	5.33	<13	PASS
	HCH	1	0	4.75	<13	PASS
		1	12	4.25	<13	PASS
		1	24	4.03	<13	PASS
		12	0	4.93	<13	PASS
		12	6	4.6	<13	PASS
		12	13	4.49	<13	PASS
		25	0	5.05	<13	PASS
16QAM	LCH	1	0	4.39	<13	PASS
		1	12	5.58	<13	PASS
		1	24	5.68	<13	PASS
		12	0	5.34	<13	PASS
		12	6	5.69	<13	PASS
		12	13	5.98	<13	PASS
		25	0	5.81	<13	PASS
	MCH	1	0	5.6	<13	PASS
		1	12	5.52	<13	PASS
		1	24	5.05	<13	PASS
		12	0	6.14	<13	PASS
		12	6	6.08	<13	PASS

		12	13	5.92	<13	PASS
		25	0	6.13	<13	PASS
	HCH	1	0	5.83	<13	PASS
		1	12	5.25	<13	PASS
		1	24	5.05	<13	PASS
		12	0	5.68	<13	PASS
		12	6	5.34	<13	PASS
		12	13	5.25	<13	PASS
		25	0	5.72	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.98	<13	PASS
		1	24	5.01	<13	PASS
		1	49	4.43	<13	PASS
		25	0	5.0	<13	PASS
		25	12	5.27	<13	PASS
		25	25	5.01	<13	PASS
		50	0	5.45	<13	PASS
	MCH	1	0	3.99	<13	PASS
		1	24	4.98	<13	PASS
		1	49	4.41	<13	PASS
		25	0	5.03	<13	PASS
		25	12	5.27	<13	PASS
		25	25	4.99	<13	PASS
		50	0	5.45	<13	PASS
	HCH	1	0	3.96	<13	PASS
		1	24	4.94	<13	PASS
		1	49	4.43	<13	PASS
		25	0	5.02	<13	PASS
		25	12	5.3	<13	PASS
		25	25	4.97	<13	PASS
		50	0	5.43	<13	PASS
16QAM	LCH	1	0	4.84	<13	PASS
		1	24	5.97	<13	PASS
		1	49	5.3	<13	PASS
		25	0	5.87	<13	PASS
		25	12	6.03	<13	PASS
		25	25	5.79	<13	PASS

		50	0	6.13	<13	PASS
	MCH	1	0	4.88	<13	PASS
		1	24	5.91	<13	PASS
		1	49	5.28	<13	PASS
		25	0	5.89	<13	PASS
		25	12	6.04	<13	PASS
		25	25	5.79	<13	PASS
		50	0	6.14	<13	PASS
	HCH	1	0	4.89	<13	PASS
		1	24	5.88	<13	PASS
		1	49	5.16	<13	PASS
		25	0	5.84	<13	PASS
		25	12	6.05	<13	PASS
		25	25	5.8	<13	PASS
		50	0	6.15	<13	PASS

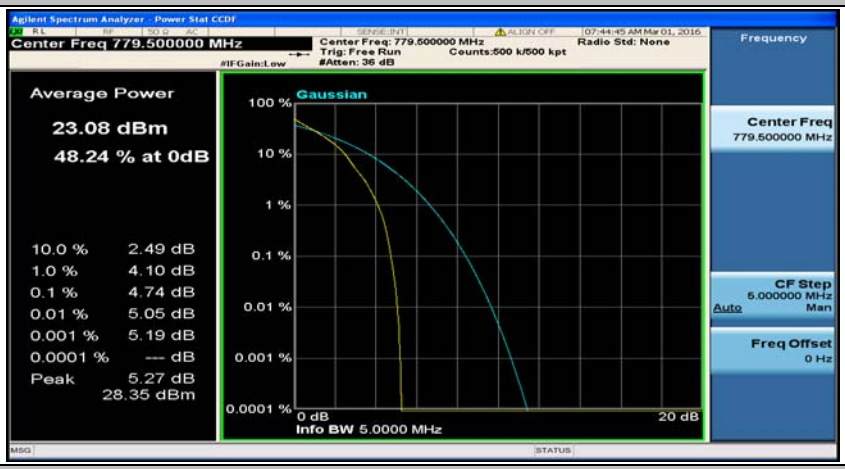
Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0

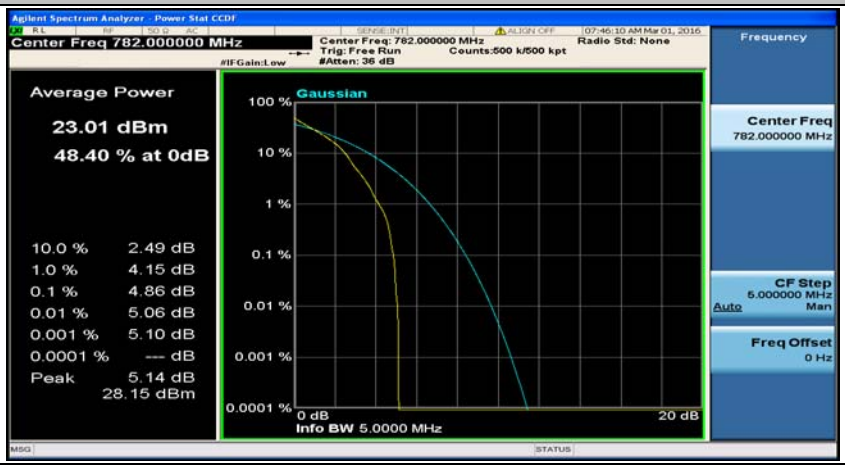
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0

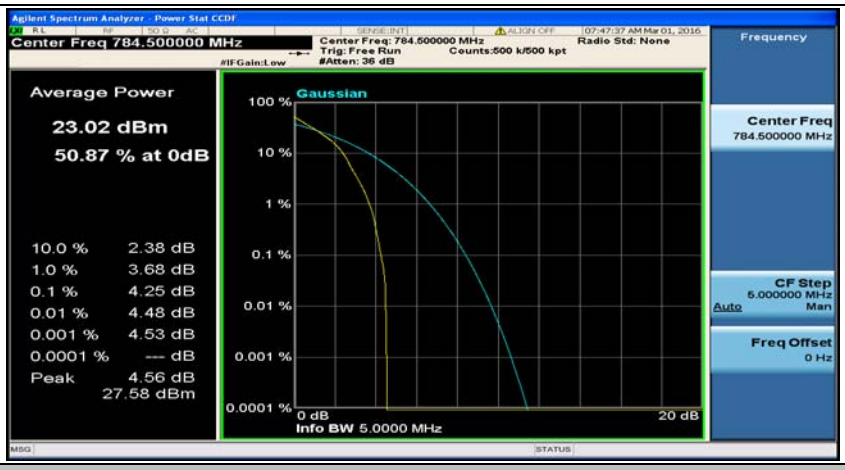
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

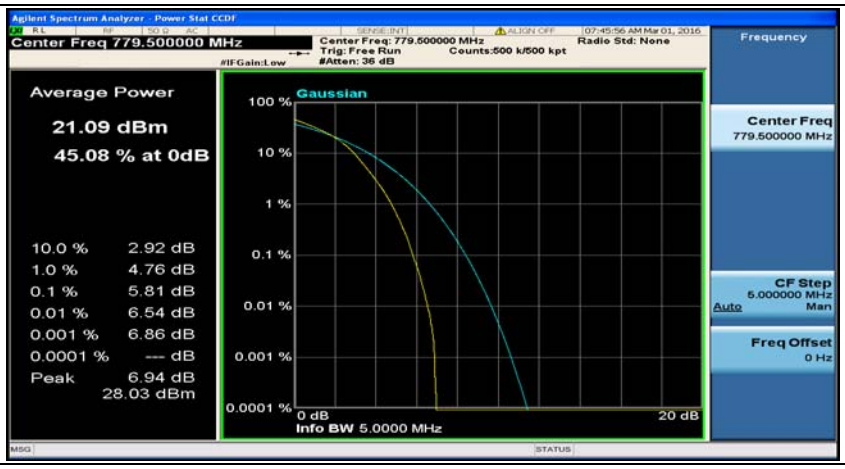
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0

(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0

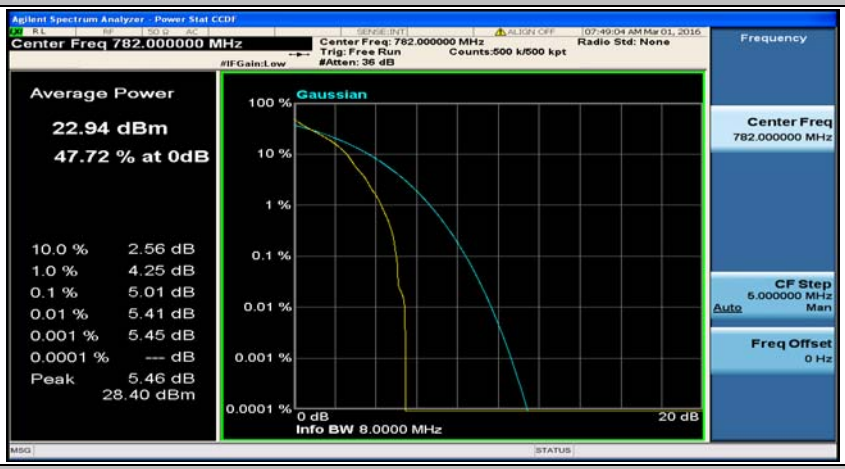
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

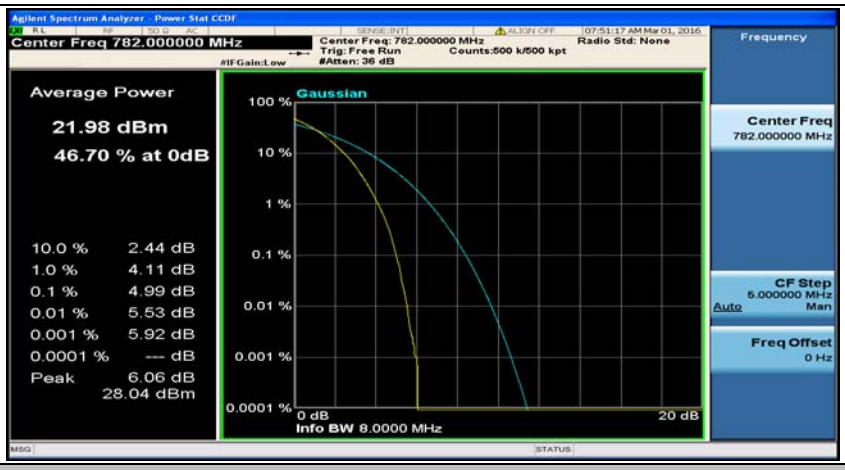
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12

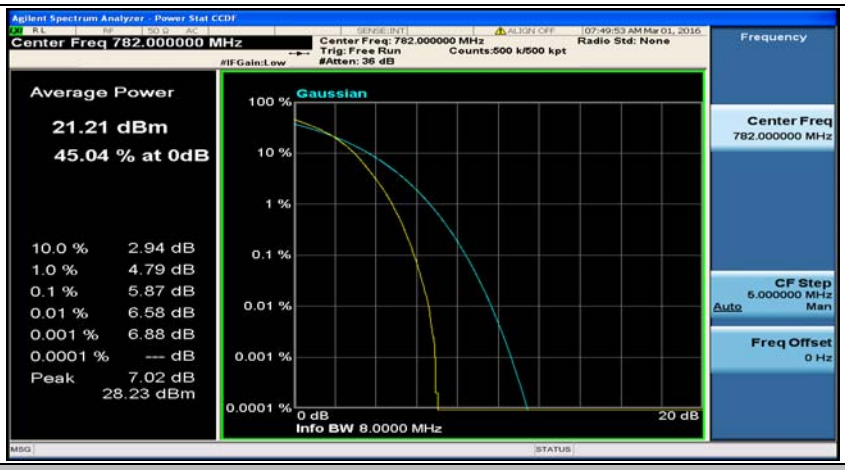
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4762	4.862	PASS
	MCH	25	0	4.4780	4.853	PASS
	HCH	25	0	4.4709	4.855	PASS
16QAM	LCH	25	0	4.4653	4.882	PASS
	MCH	25	0	4.4830	4.850	PASS
	HCH	25	0	4.4656	4.813	PASS

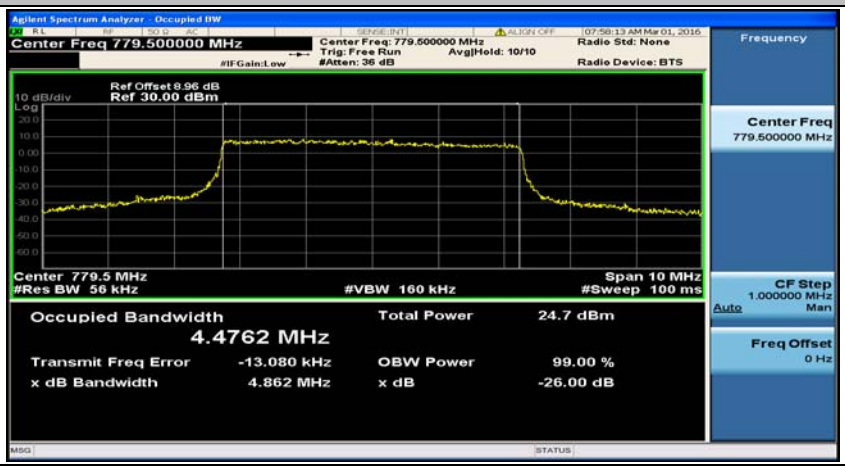
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9742	9.665	PASS
	MCH	50	0	8.9897	9.579	PASS
	HCH	50	0	8.9845	9.680	PASS
16QAM	LCH	50	0	8.9866	9.593	PASS
	MCH	50	0	8.9873	9.581	PASS
	HCH	50	0	8.9861	9.614	PASS

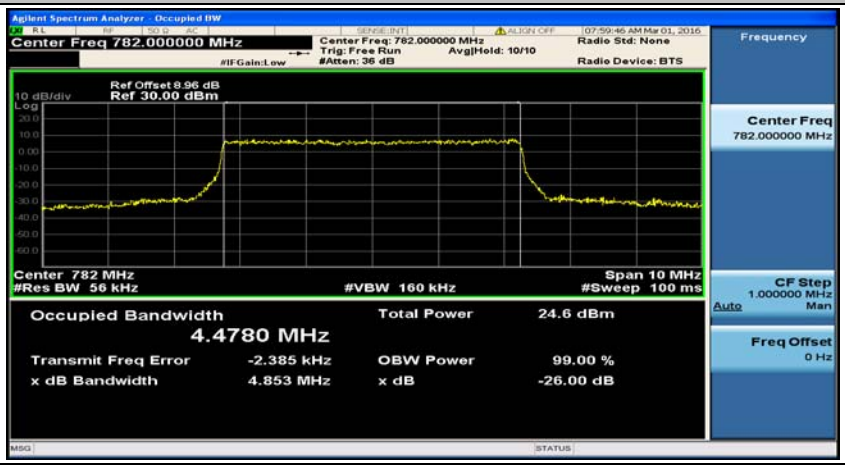
Test Graphs

Channel Bandwidth: 5 MHz

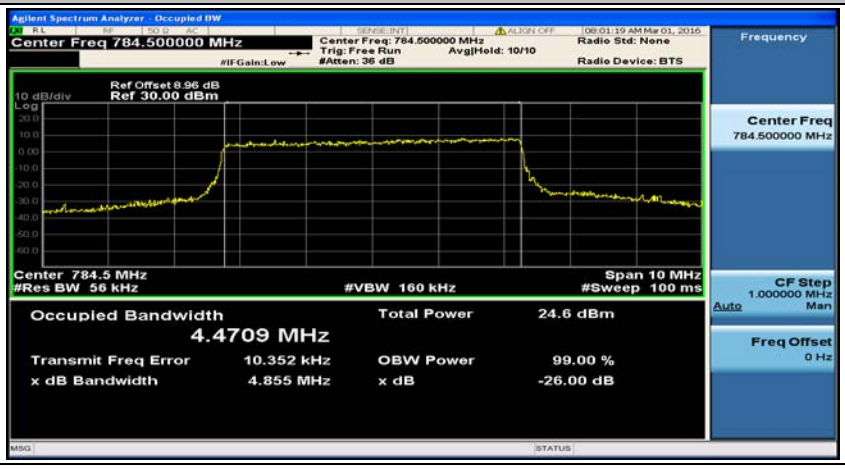
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

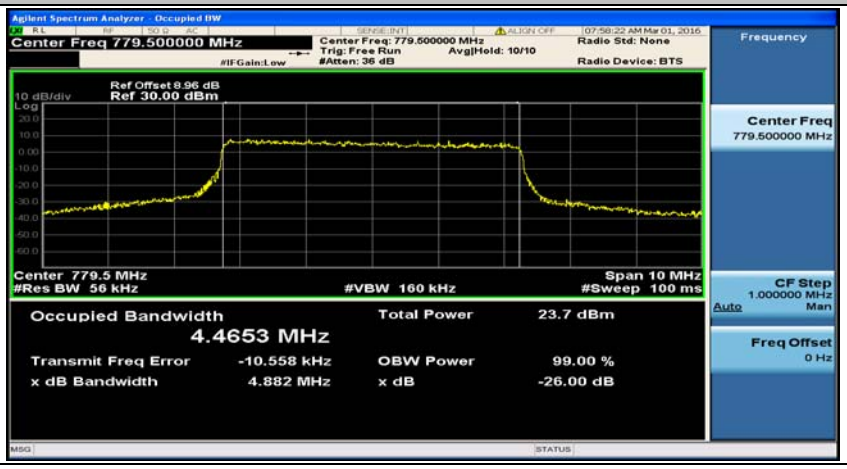


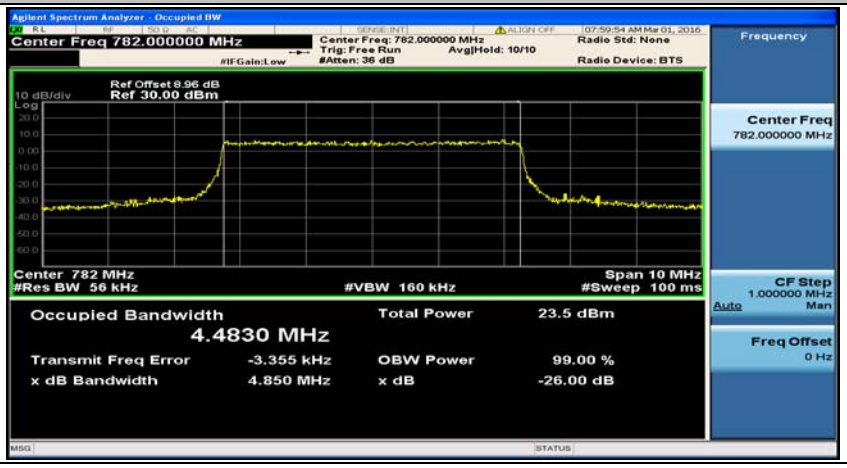
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

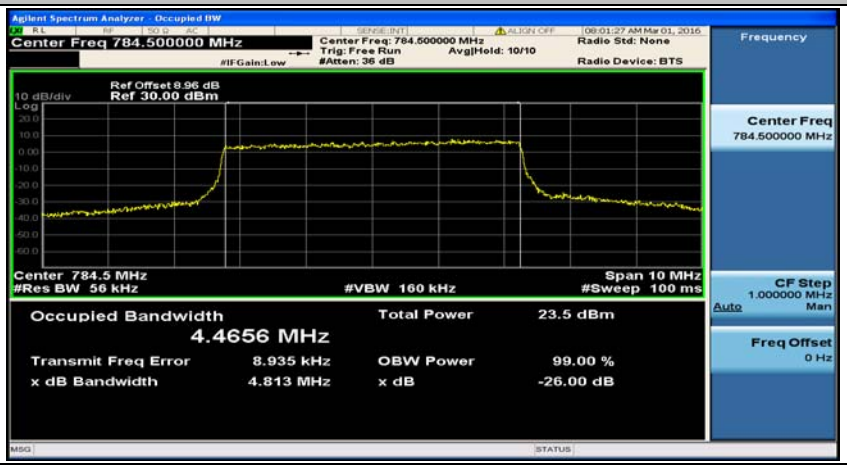


(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



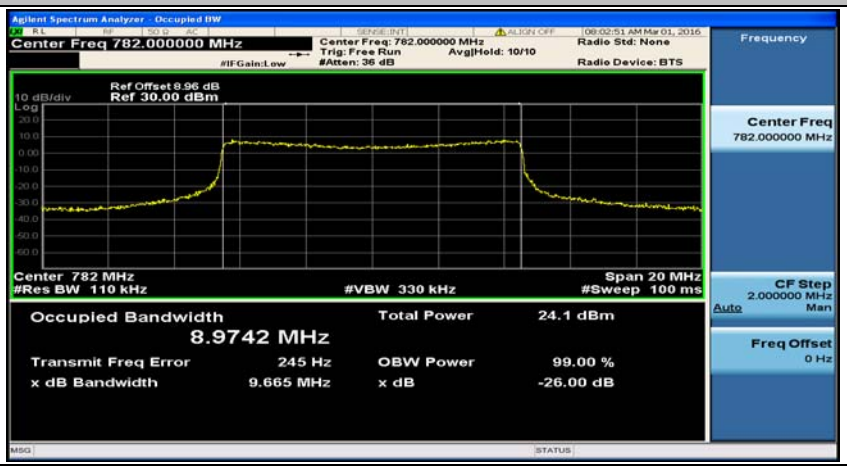
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0


(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0


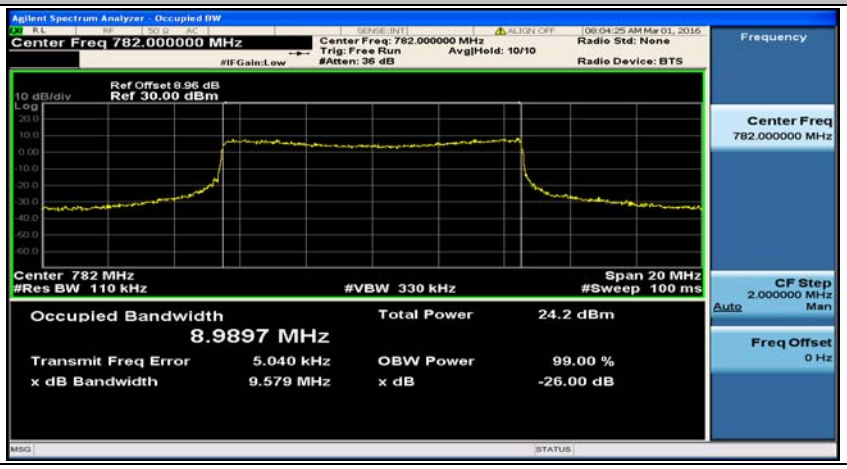
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0


Channel Bandwidth: 10 MHz

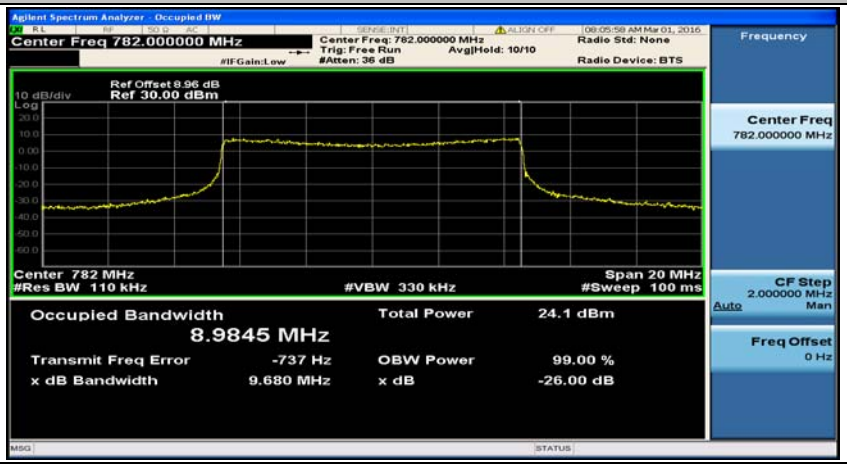
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

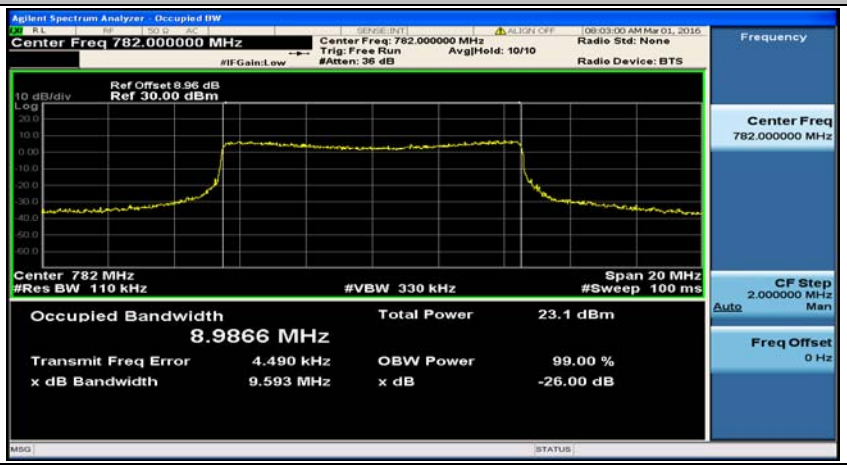


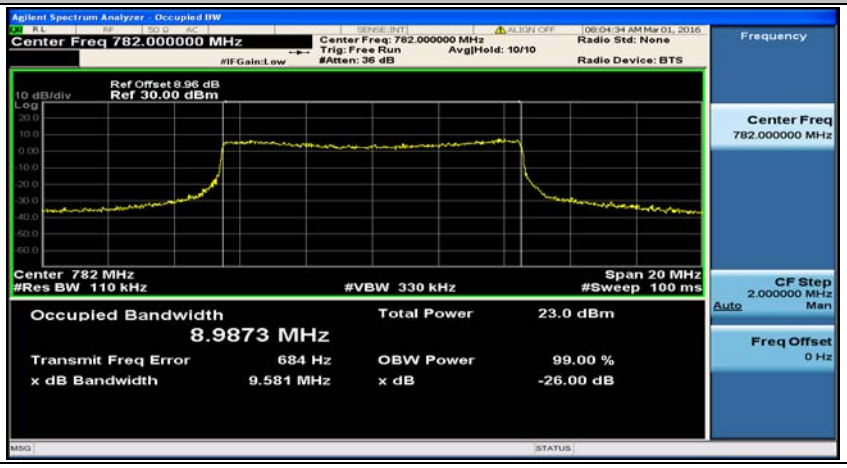
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0


Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0


Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0


Appendix D: Band Edge

Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

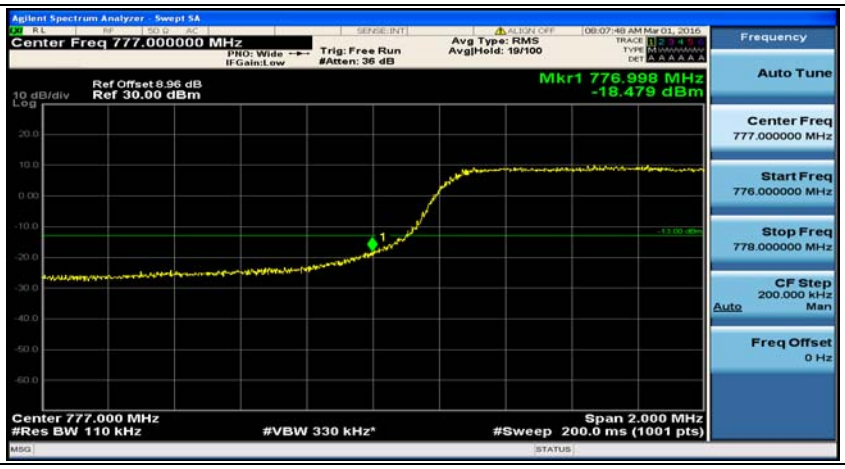
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

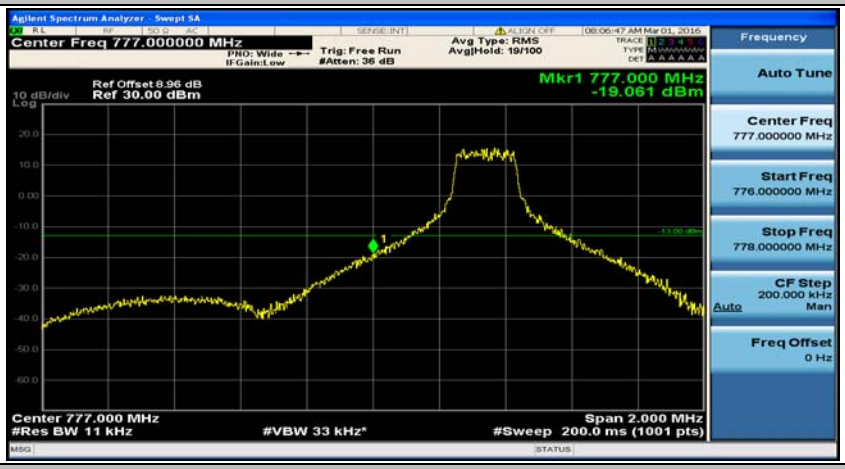
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

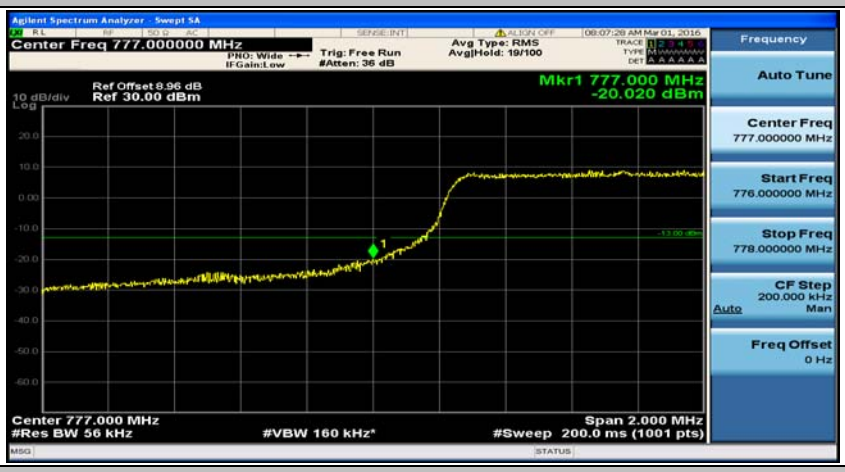
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

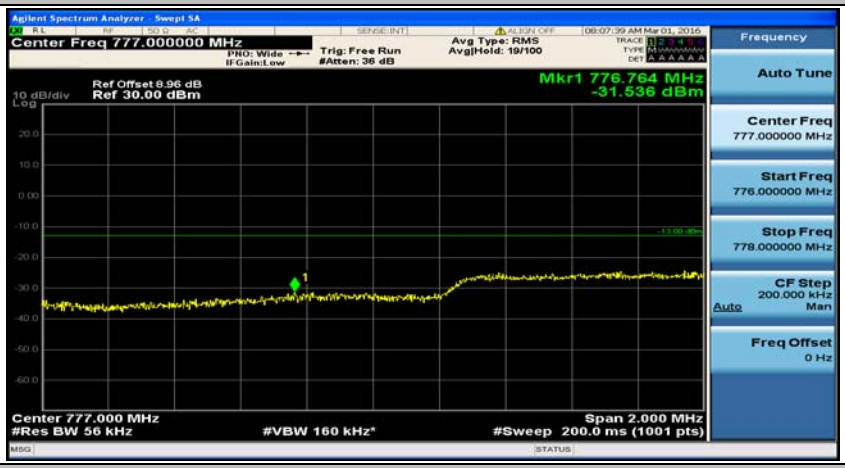
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

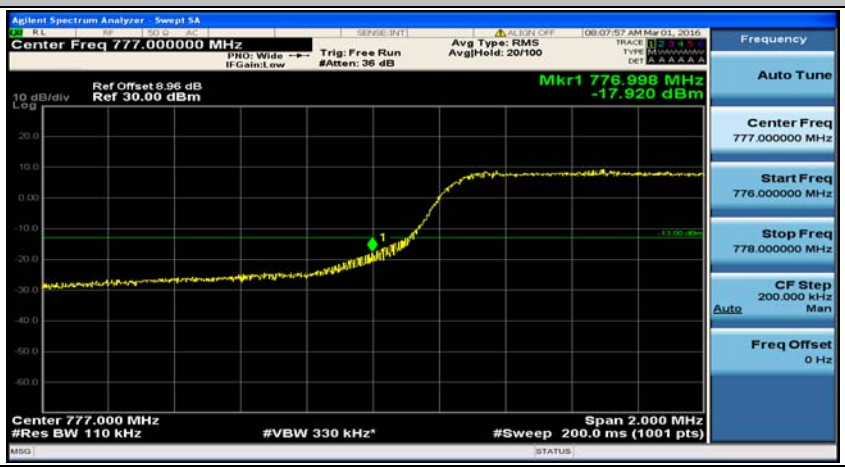


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0

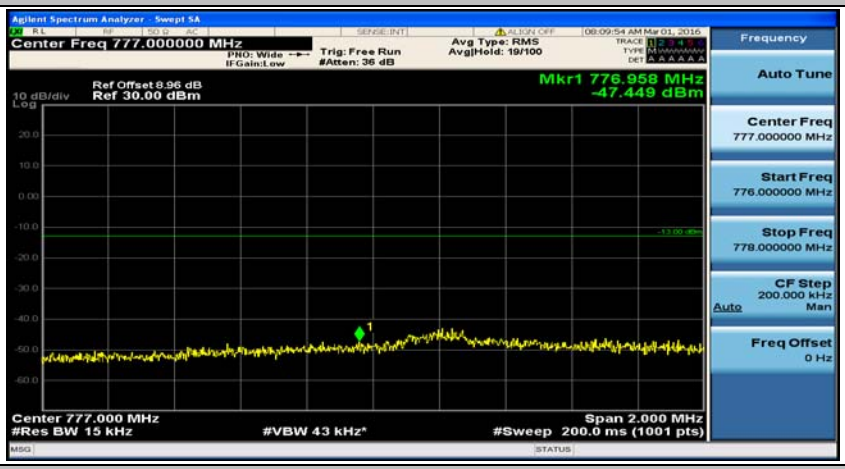
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

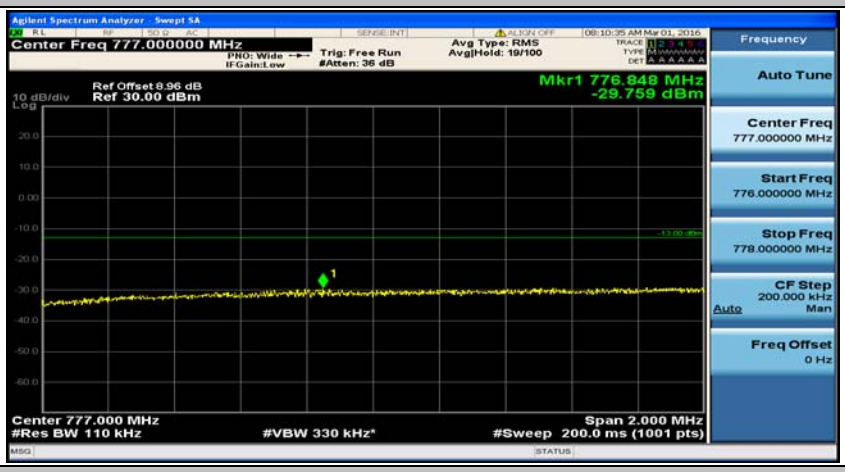
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25