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	24.08	PASS
		1	12	24.11	PASS
		1	24	24.08	PASS
		12	0	23.13	PASS
		12	6	23.13	PASS
		12	13	23.16	PASS
		25	0	23.10	PASS
	MCH	1	0	24.19	PASS
		1	12	24.17	PASS
		1	24	24.06	PASS
		12	0	23.12	PASS
		12	6	23.11	PASS
		12	13	23.16	PASS
		25	0	23.15	PASS
	HCH	1	0	23.96	PASS
		1	12	23.91	PASS
		1	24	23.77	PASS
		12	0	23.09	PASS
		12	6	23.01	PASS
		12	13	22.93	PASS
		25	0	22.95	PASS
16QAM	LCH	1	0	23.49	PASS
		1	12	23.58	PASS
		1	24	23.50	PASS
		12	0	22.34	PASS
		12	6	22.32	PASS
		12	13	22.40	PASS
		25	0	22.25	PASS
	MCH	1	0	23.17	PASS

		1	12	23.32	PASS
		1	24	23.09	PASS
		12	0	22.30	PASS
		12	6	22.30	PASS
		12	13	22.26	PASS
		25	0	22.22	PASS
	HCH	1	0	23.20	PASS
		1	12	23.18	PASS
		1	24	22.84	PASS
		12	0	22.18	PASS
		12	6	22.10	PASS
		12	13	22.02	PASS
		25	0	22.07	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.08	PASS
		1	24	24.11	PASS
		1	49	23.93	PASS
		25	0	23.13	PASS
		25	12	23.18	PASS
		25	25	23.10	PASS
		50	0	23.17	PASS
	MCH	1	0	24.08	PASS
		1	24	24.33	PASS
		1	49	23.88	PASS
		25	0	23.11	PASS
		25	12	23.14	PASS
		25	25	23.02	PASS
		50	0	23.11	PASS
	HCH	1	0	24.07	PASS
		1	24	24.08	PASS
		1	49	23.83	PASS
		25	0	23.14	PASS
		25	12	23.07	PASS
		25	25	22.93	PASS
		50	0	23.06	PASS
16QAM	LCH	1	0	23.39	PASS
		1	24	23.42	PASS
		1	49	23.26	PASS
		25	0	22.20	PASS

		25	12	22.25	PASS
		25	25	22.20	PASS
		50	0	22.23	PASS
	MCH	1	0	23.41	PASS
		1	24	23.46	PASS
		1	49	23.14	PASS
		25	0	22.20	PASS
		25	12	22.19	PASS
		25	25	22.11	PASS
		50	0	22.16	PASS
	HCH	1	0	23.52	PASS
		1	24	23.55	PASS
		1	49	23.12	PASS
		25	0	22.25	PASS
		25	12	22.17	PASS
		25	25	22.04	PASS
		50	0	22.15	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	4.92	<13	PASS
		1	12	4.41	<13	PASS
		1	24	4.31	<13	PASS
		12	0	5.57	<13	PASS
		12	6	5.32	<13	PASS
		12	13	5.17	<13	PASS
		25	0	5.41	<13	PASS
	MCH	1	0	4.26	<13	PASS
		1	12	4.68	<13	PASS
		1	24	5.15	<13	PASS
		12	0	5.32	<13	PASS
		12	6	5.46	<13	PASS
		12	13	5.8	<13	PASS
		25	0	5.55	<13	PASS
	HCH	1	0	5.12	<13	PASS
		1	12	4.74	<13	PASS
		1	24	3.71	<13	PASS
		12	0	6.09	<13	PASS
		12	6	5.73	<13	PASS
		12	13	5.05	<13	PASS
		25	0	5.75	<13	PASS
16QAM	LCH	1	0	5.86	<13	PASS
		1	12	5.23	<13	PASS
		1	24	5.08	<13	PASS
		12	0	6.39	<13	PASS
		12	6	6.13	<13	PASS
		12	13	6.03	<13	PASS
		25	0	6.24	<13	PASS

	MCH	1	0	4.8	<13	PASS
		1	12	5.33	<13	PASS
		1	24	5.76	<13	PASS
		12	0	6.16	<13	PASS
		12	6	6.4	<13	PASS
		12	13	6.79	<13	PASS
		25	0	6.43	<13	PASS
	HCH	1	0	6.06	<13	PASS
		1	12	5.68	<13	PASS
		1	24	4.2	<13	PASS
		12	0	6.76	<13	PASS
		12	6	6.35	<13	PASS
		12	13	5.91	<13	PASS
		25	0	6.51	<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	4.88	<13	PASS
		1	24	4.36	<13	PASS
		1	49	4.81	<13	PASS
		25	0	5.31	<13	PASS
		25	12	5.4	<13	PASS
		25	25	5.71	<13	PASS
		50	0	5.52	<13	PASS
	MCH	1	0	4.55	<13	PASS
		1	24	4.62	<13	PASS
		1	49	4.37	<13	PASS
		25	0	5.31	<13	PASS
		25	12	5.52	<13	PASS
		25	25	5.69	<13	PASS
		50	0	5.5	<13	PASS
	HCH	1	0	4.39	<13	PASS
		1	24	4.81	<13	PASS
		1	49	3.48	<13	PASS
		25	0	5.37	<13	PASS
		25	12	5.69	<13	PASS
		25	25	5.54	<13	PASS
		50	0	5.43	<13	PASS
16QAM	LCH	1	0	5.54	<13	PASS

		1	24	5.29	<13	PASS
		1	49	6.05	<13	PASS
		25	0	6.22	<13	PASS
		25	12	6.26	<13	PASS
		25	25	6.67	<13	PASS
		50	0	6.36	<13	PASS
	MCH	1	0	5.51	<13	PASS
		1	24	5.55	<13	PASS
		1	49	5.1	<13	PASS
		25	0	6.21	<13	PASS
		25	12	6.42	<13	PASS
		25	25	6.65	<13	PASS
		50	0	6.31	<13	PASS
	HCH	1	0	5.11	<13	PASS
		1	24	5.75	<13	PASS
		1	49	4.5	<13	PASS
		25	0	6.25	<13	PASS
		25	12	6.57	<13	PASS
		25	25	6.48	<13	PASS
		50	0	6.34	<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

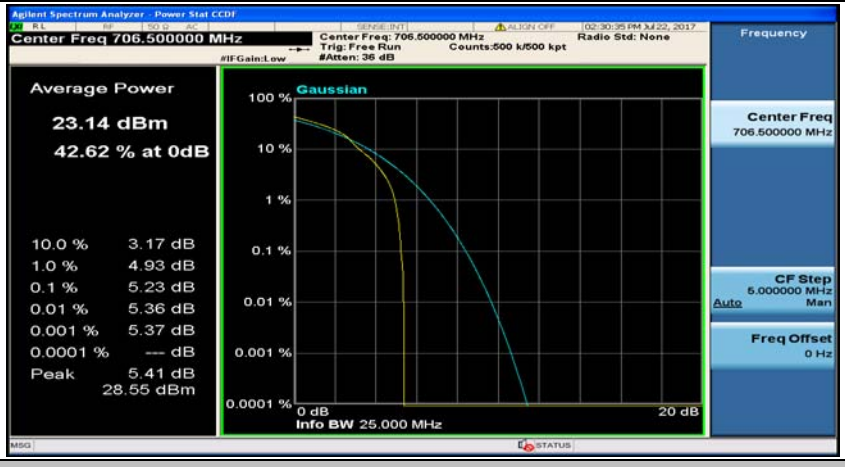
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(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

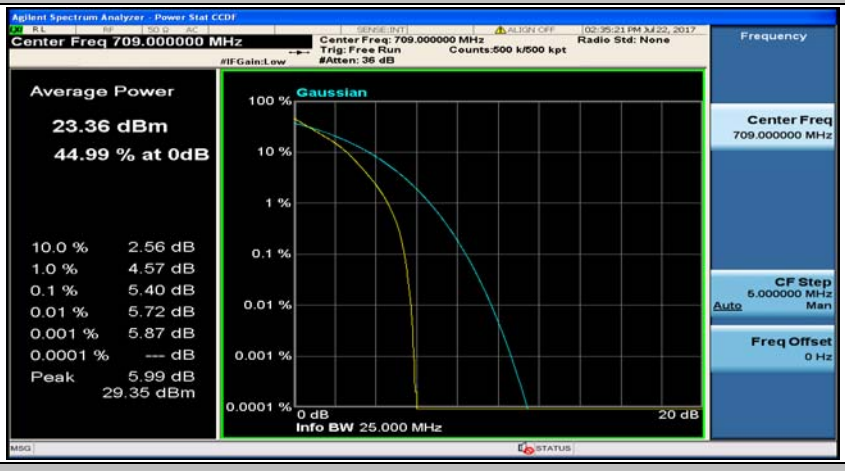
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

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

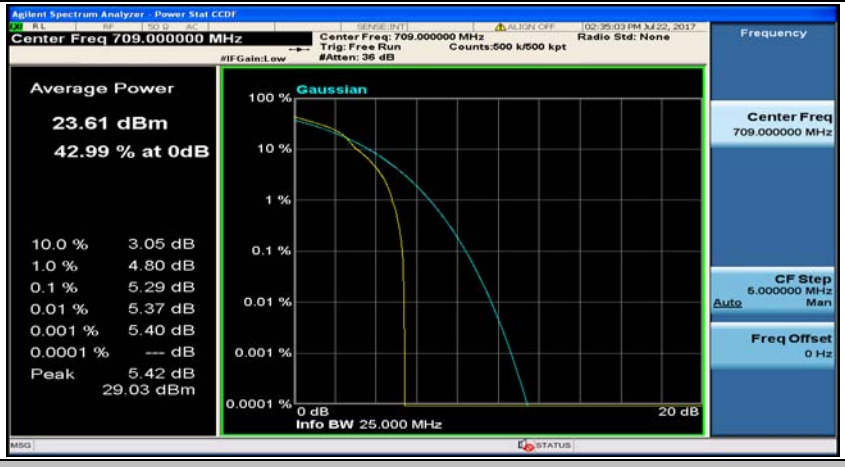
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12

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_1RB#49

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

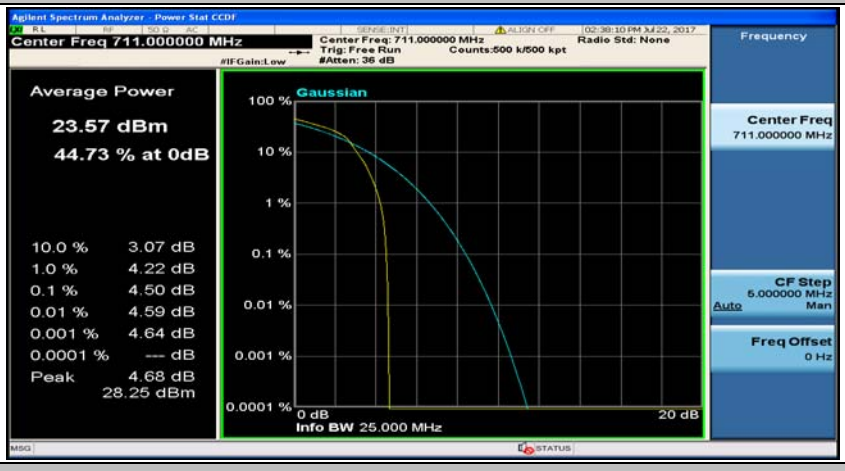
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

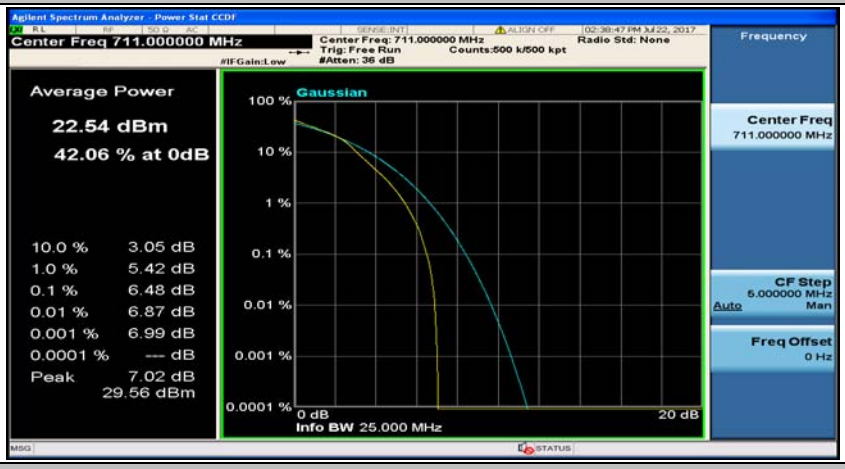
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



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

Agilent Spectrum Analyzer - Power Stat CCDF
Center Freq 711.000000 MHz
Center Freq: 711.000000 MHz
Trig: Free Run
#Atten: 36 dB
Counts:500 k/500 kpt
Radio Std: None
Frequency
Average Power
22.45 dBm
42.38 % at 0dB
10.0 % 3.08 dB
1.0 % 5.30 dB
0.1 % 6.34 dB
0.01 % 6.80 dB
0.001 % 7.06 dB
0.0001 % --- dB
Peak 7.29 dB
29.74 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
711.000000 MHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

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	4.4769	4.778	PASS
	MCH	25	0	4.4818	4.818	PASS
	HCH	25	0	4.4883	4.857	PASS
16QAM	LCH	25	0	4.4797	4.806	PASS
	MCH	25	0	4.4797	4.784	PASS
	HCH	25	0	4.4895	4.811	PASS

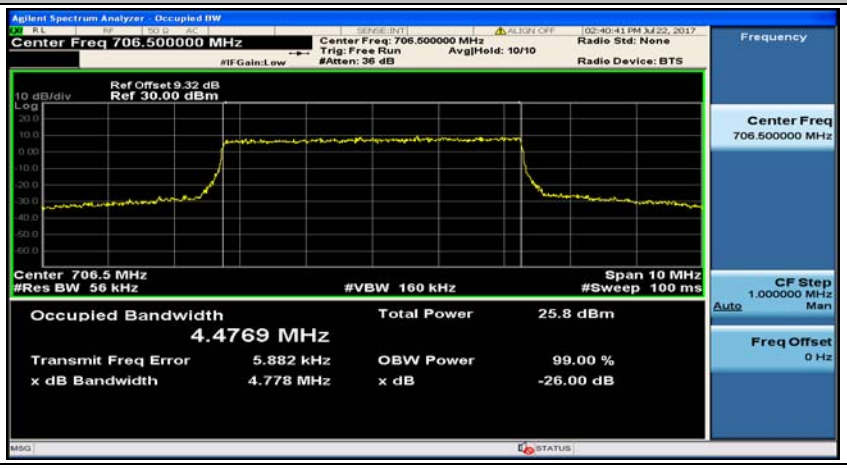
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9152	9.406	PASS
	MCH	50	0	8.9392	9.414	PASS
	HCH	50	0	8.9248	9.427	PASS
16QAM	LCH	50	0	8.9134	9.397	PASS
	MCH	50	0	8.9300	9.400	PASS
	HCH	50	0	8.9362	9.371	PASS

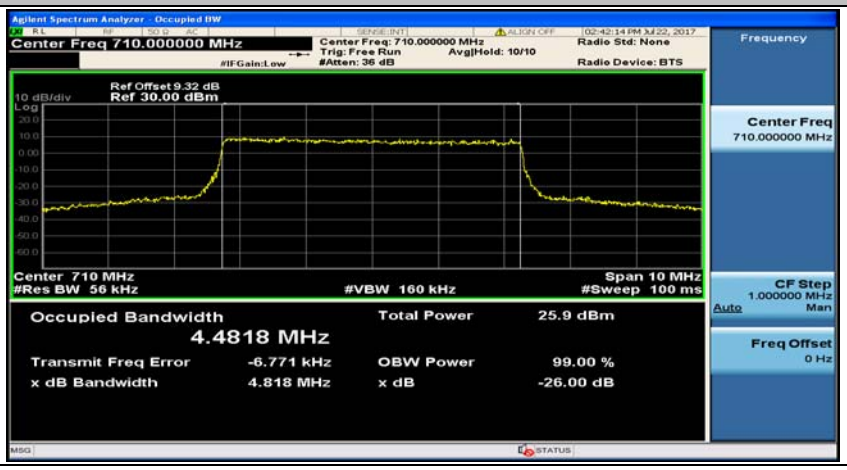
Test Graphs

Channel Bandwidth: 5 MHz

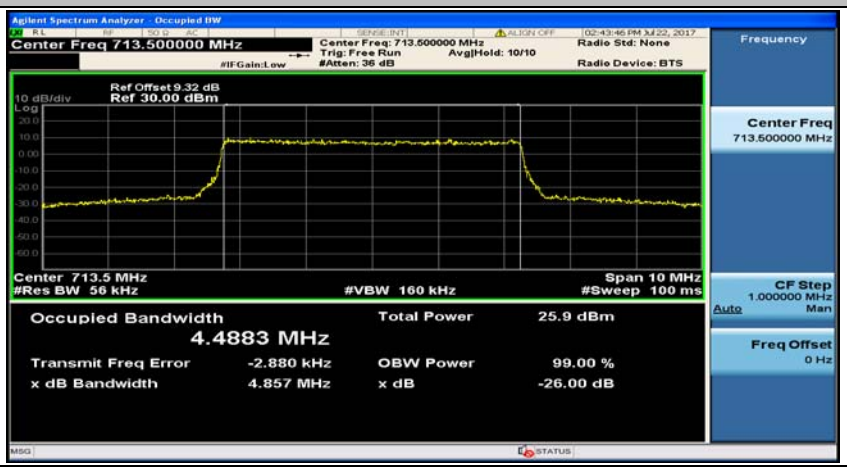
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

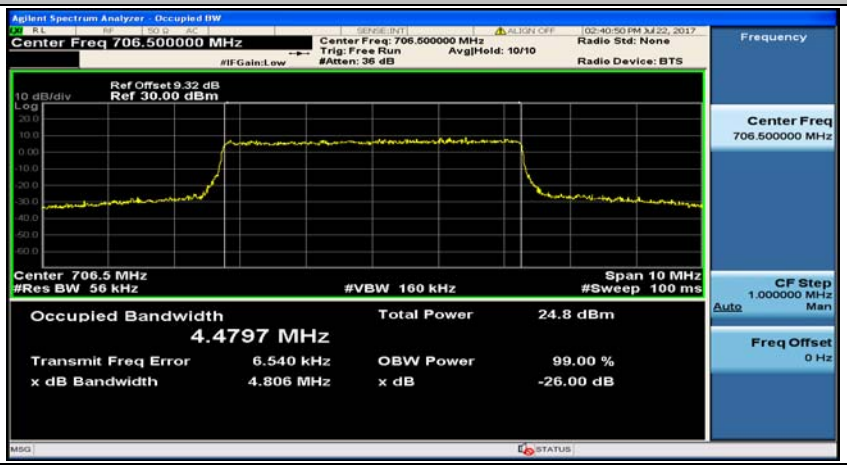


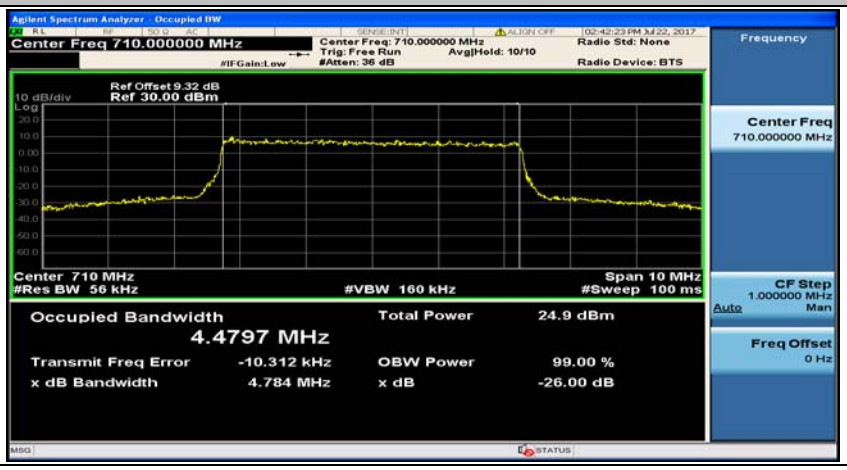
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

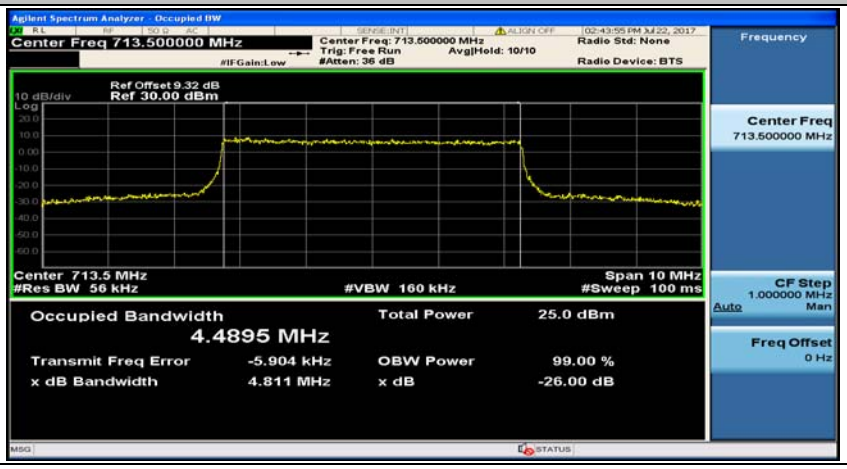


(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

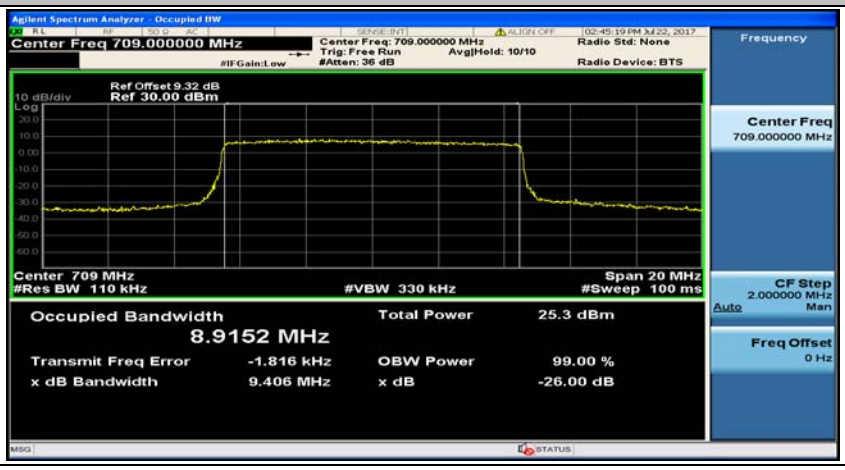


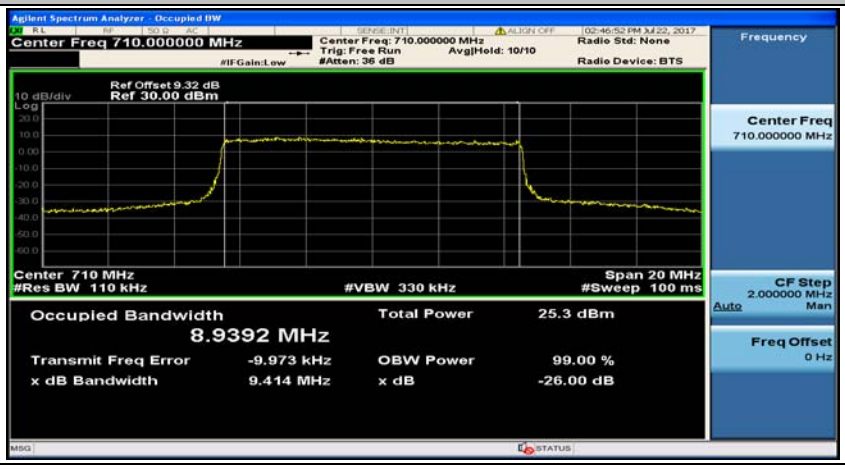
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0


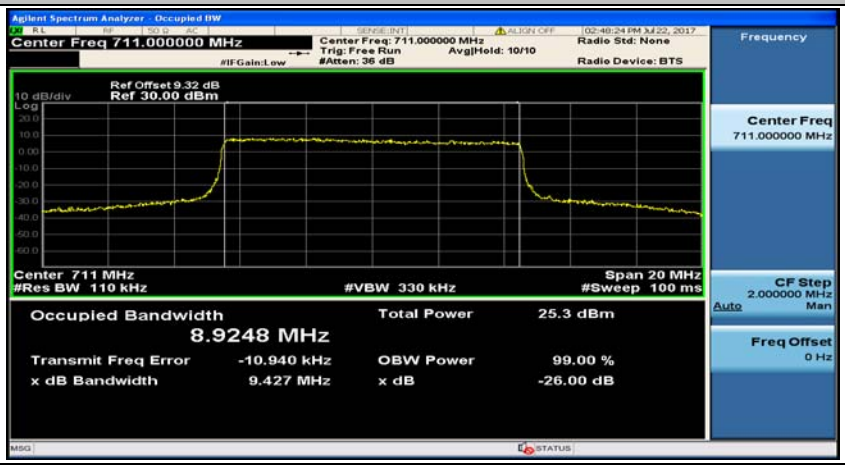
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0


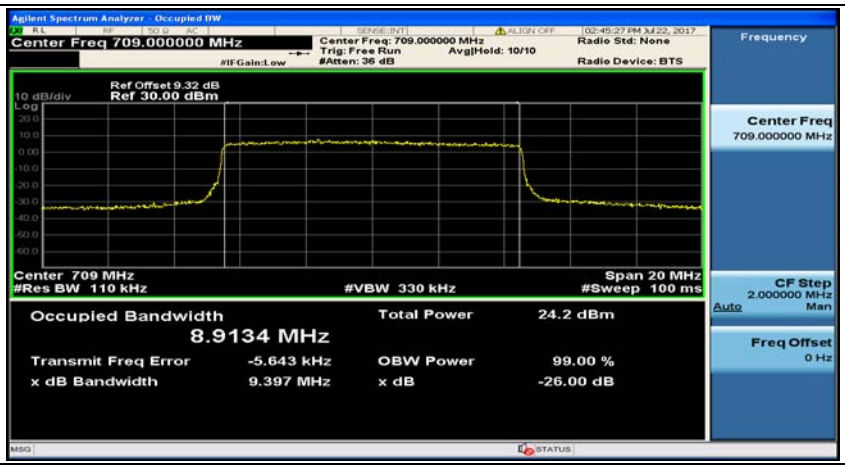
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0


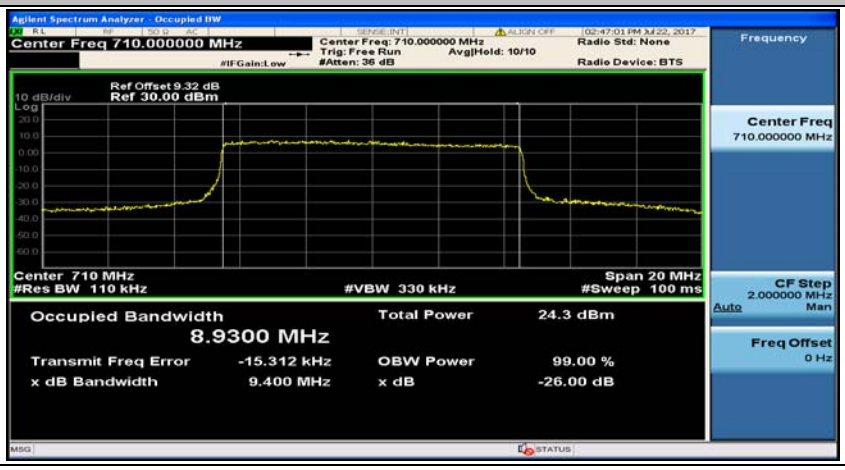
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0


Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0


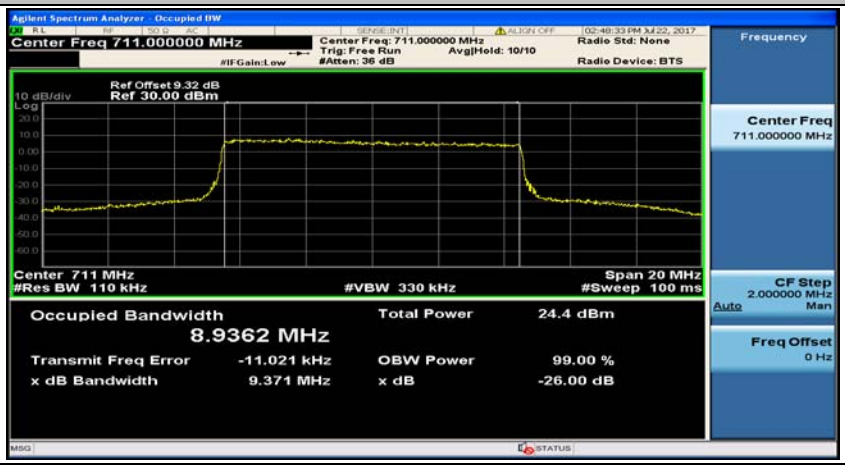
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



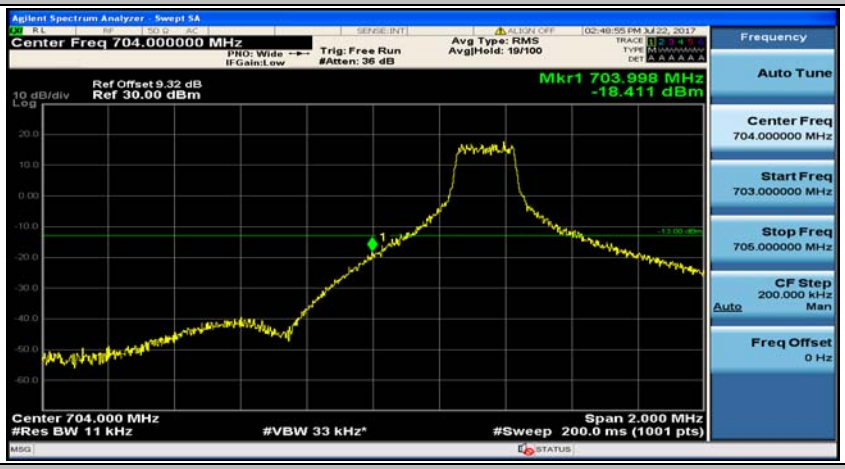
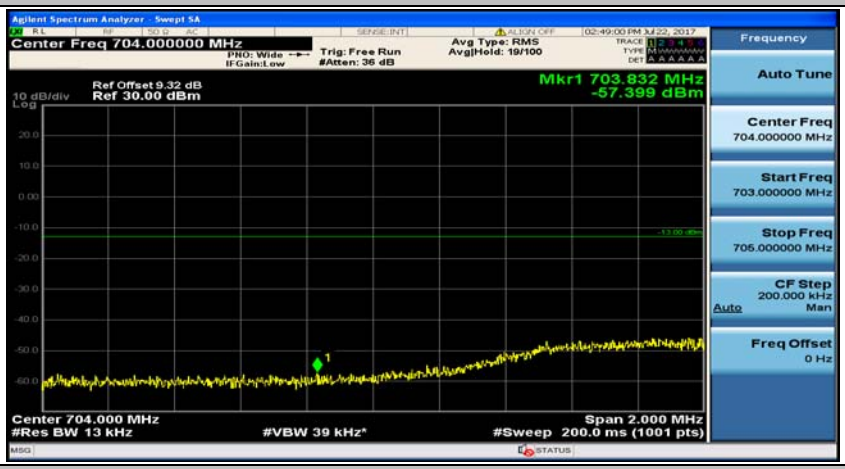
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

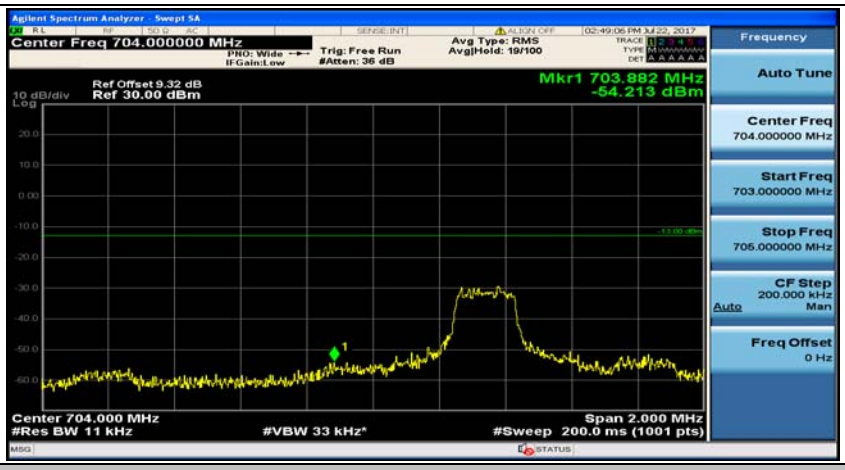


Appendix D: Band Edge

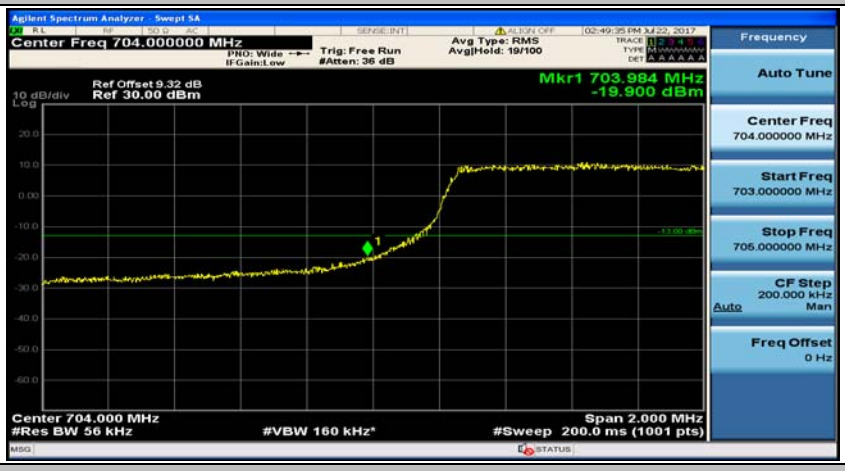
Test Graphs

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



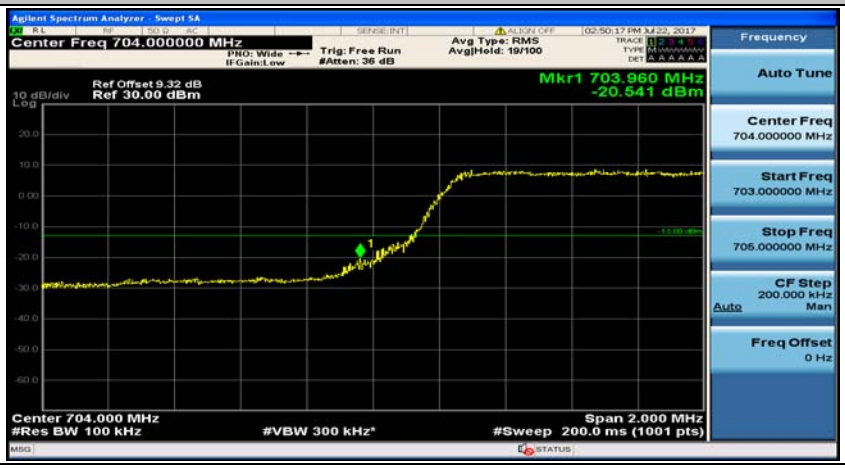
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



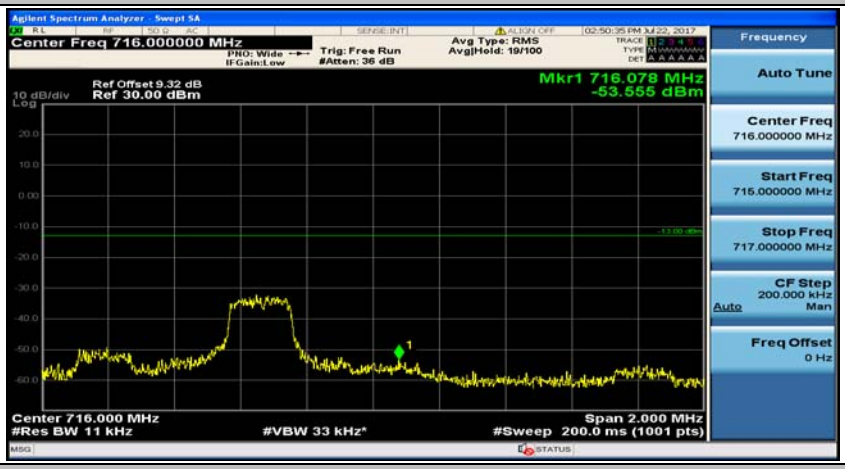
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

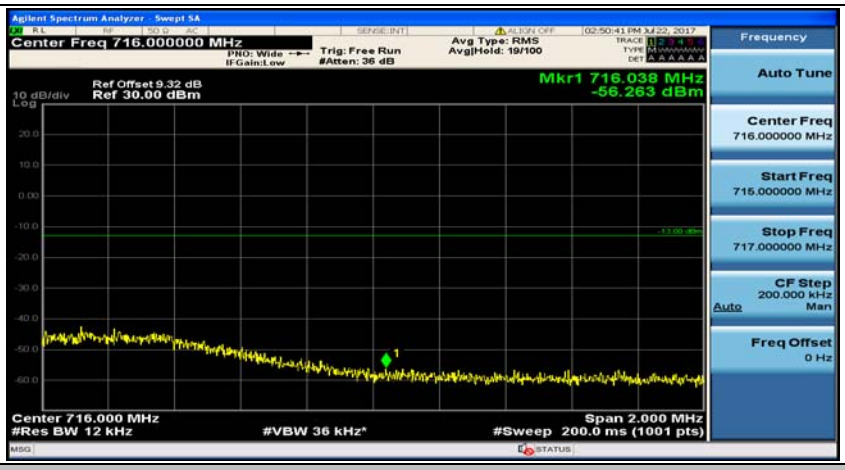
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(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

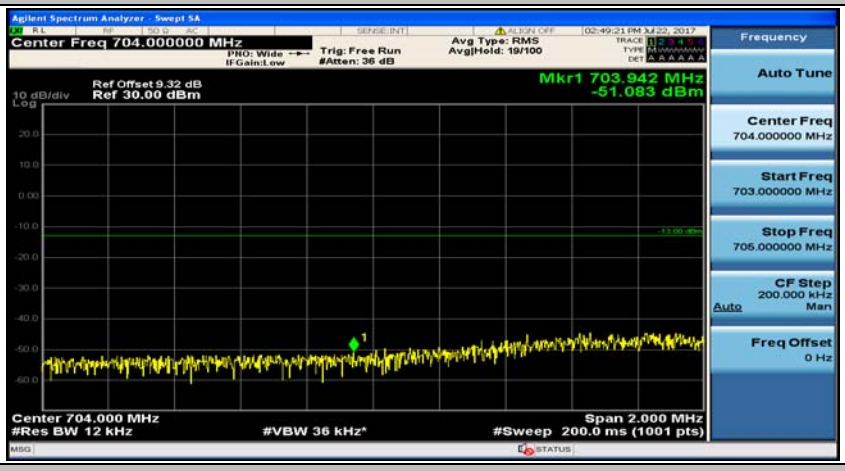
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

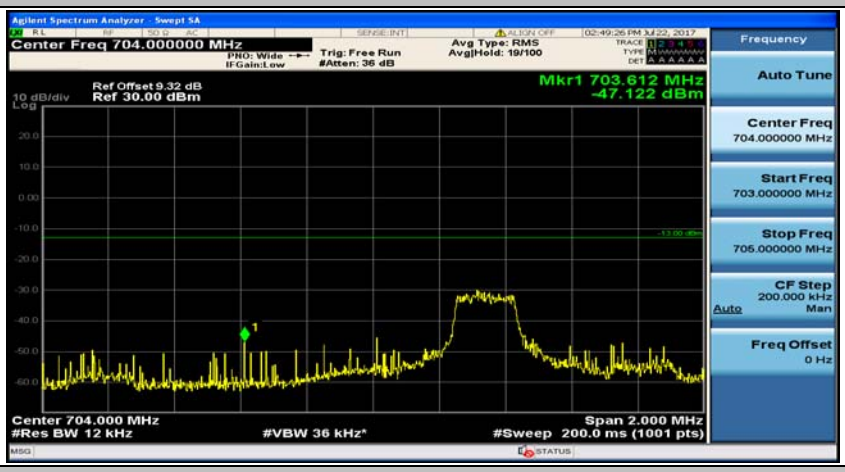
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

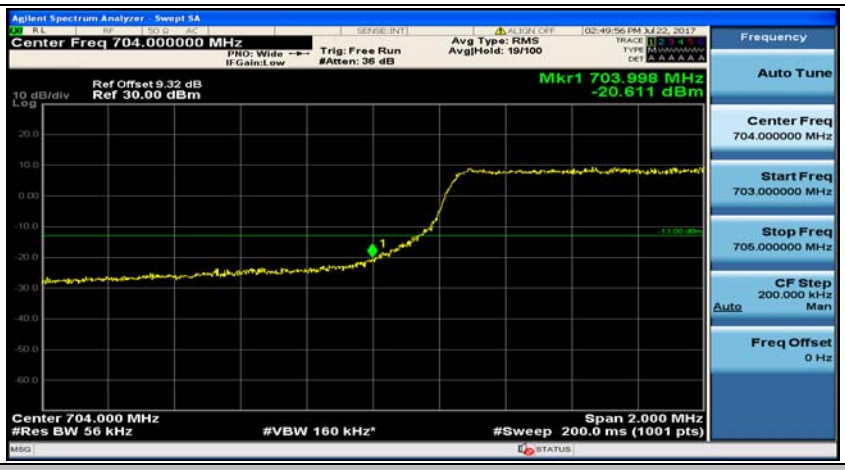
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

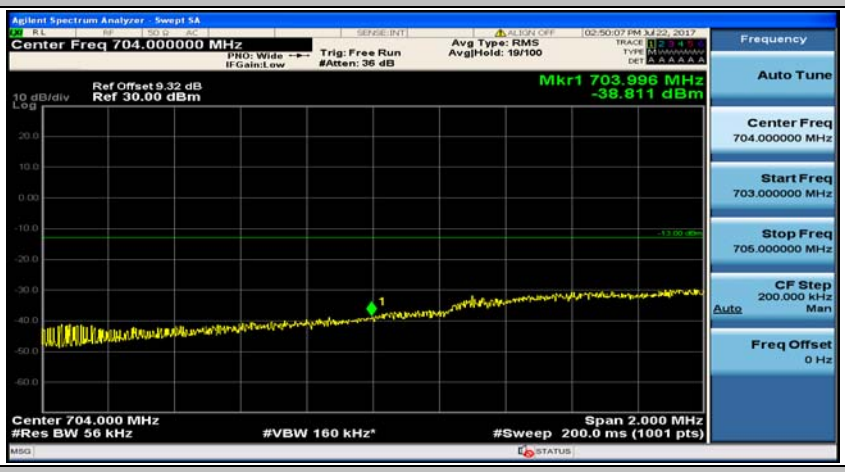


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

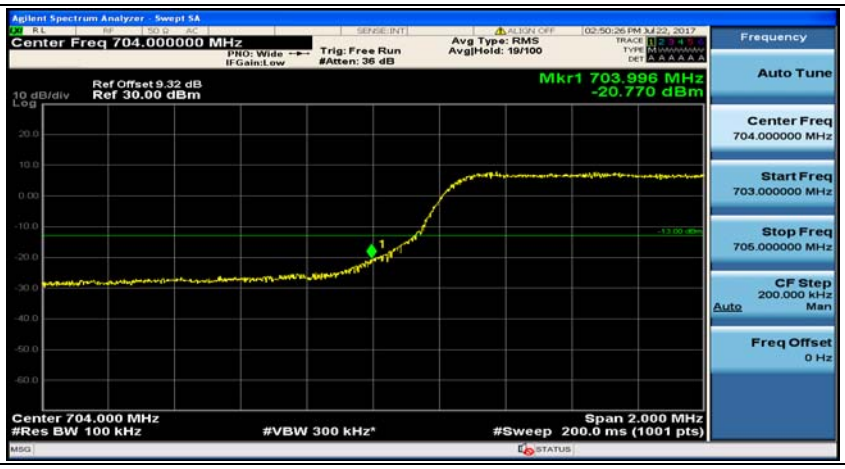


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6

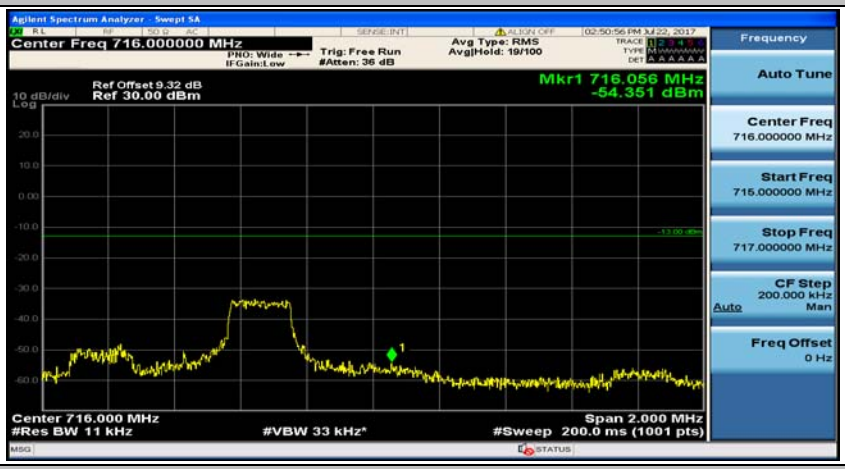
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



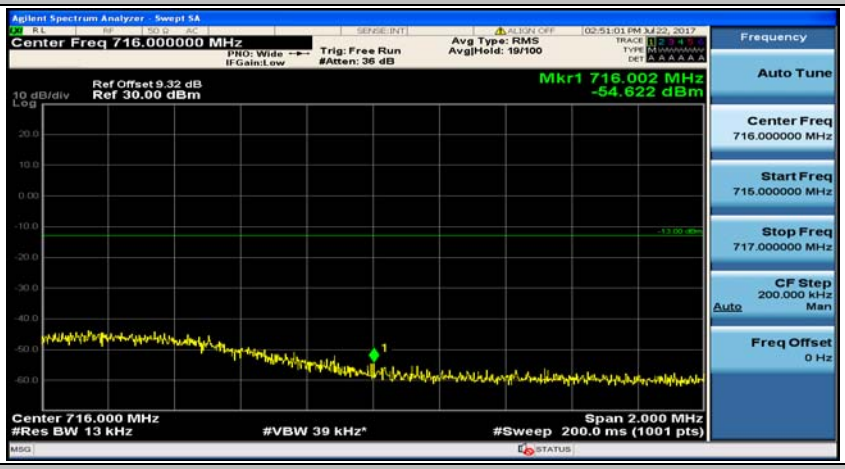
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(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

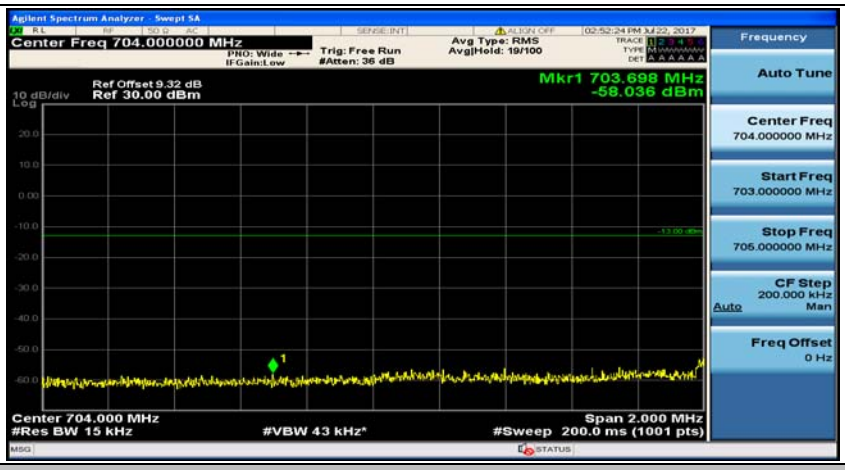
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0

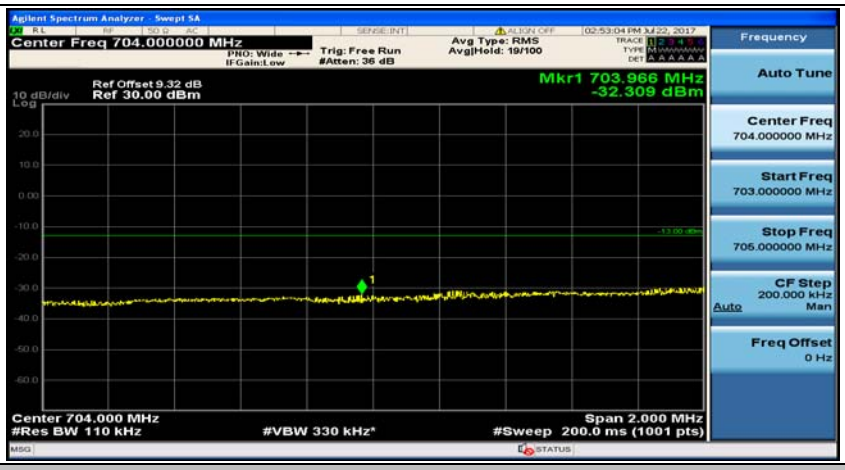
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



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

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0