

Appendix A: Test Data for E-UTRA Band 12

Product Name: Personal Mobile Alarm System

Trade Mark: N/A

Test Model: EV-07BX-LTE

Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Alisa Huang
Supervised by:	Wang.Chuang

A.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.04	22.24	PASS
		1	3	23.10	22.34	PASS
		1	5	22.99	22.19	PASS
		3	0	23.06	22.18	PASS
		3	2	23.05	22.13	PASS
		3	3	23.05	22.13	PASS
		6	0	22.11	21.04	PASS
	MCH	1	0	23.38	22.74	PASS
		1	3	23.49	22.87	PASS
		1	5	23.44	22.79	PASS
		3	0	23.45	22.42	PASS
		3	2	23.43	22.44	PASS
		3	3	23.48	22.49	PASS
		6	0	22.48	21.46	PASS
	HCH	1	0	23.28	22.51	PASS
		1	3	23.30	22.56	PASS
		1	5	23.15	22.37	PASS
		3	0	23.34	22.36	PASS
		3	2	23.24	22.29	PASS
		3	3	23.24	22.29	PASS
		6	0	22.30	21.43	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.94	22.22	PASS
		1	7	22.99	22.24	PASS
		1	14	22.95	22.15	PASS
		8	0	22.10	21.15	PASS
		8	4	22.07	21.11	PASS
		8	7	22.10	21.11	PASS
		15	0	22.05	21.05	PASS
	MCH	1	0	23.24	22.52	PASS
		1	7	23.46	22.73	PASS
		1	14	23.41	22.64	PASS
		8	0	22.46	21.51	PASS
		8	4	22.50	21.58	PASS
		8	7	22.54	21.58	PASS
		15	0	22.47	21.44	PASS
	HCH	1	0	23.33	22.61	PASS
		1	7	23.41	22.76	PASS
		1	14	23.12	22.44	PASS
		8	0	22.46	21.45	PASS
		8	4	22.44	21.39	PASS
		8	7	22.36	21.35	PASS
		15	0	22.36	21.37	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.02	22.36	PASS
		1	12	23.10	22.39	PASS
		1	24	23.10	22.40	PASS
		12	0	22.09	21.21	PASS
		12	6	22.10	21.22	PASS
		12	13	22.16	21.28	PASS
		25	0	22.07	21.10	PASS
	MCH	1	0	23.23	22.60	PASS
		1	12	23.53	22.90	PASS
		1	24	23.58	22.85	PASS
		12	0	22.44	21.59	PASS
		12	6	22.53	21.65	PASS
		12	13	22.59	21.73	PASS
		25	0	22.44	21.50	PASS
	HCH	1	0	23.59	22.41	PASS
		1	12	23.55	22.48	PASS
		1	24	23.25	22.19	PASS
		12	0	22.44	21.49	PASS
		12	6	22.45	21.50	PASS
		12	13	22.40	21.45	PASS
		25	0	22.42	21.45	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.96	22.23	PASS
		1	24	23.02	22.27	PASS
		1	49	23.49	22.75	PASS
		25	0	22.03	21.05	PASS
		25	12	22.15	21.18	PASS
		25	25	22.37	21.40	PASS
		50	0	22.21	21.22	PASS
	MCH	1	0	22.97	22.19	PASS
		1	24	23.39	22.68	PASS
		1	49	23.43	22.60	PASS
		25	0	22.21	21.24	PASS
		25	12	22.45	21.46	PASS
		25	25	22.52	21.50	PASS
		50	0	22.38	21.40	PASS
	HCH	1	0	23.37	22.73	PASS
		1	24	23.55	22.76	PASS
		1	49	23.23	22.59	PASS
		25	0	22.50	21.53	PASS
		25	12	22.49	21.50	PASS
		25	25	22.41	21.46	PASS
		50	0	22.46	21.52	PASS

A.2 Peak-to-Average Ratio

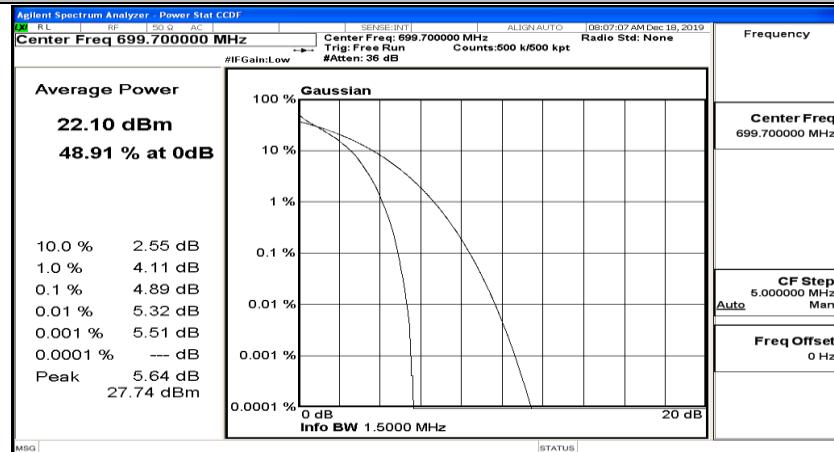
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.89	<13	PASS
	MCH	5	<13	PASS
	HCH	4.87	<13	PASS
16QAM	LCH	5.77	<13	PASS
	MCH	5.87	<13	PASS
	HCH	5.75	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.03	<13	PASS
	MCH	5.23	<13	PASS
	HCH	5.08	<13	PASS
16QAM	LCH	5.85	<13	PASS
	MCH	6.09	<13	PASS
	HCH	5.84	<13	PASS

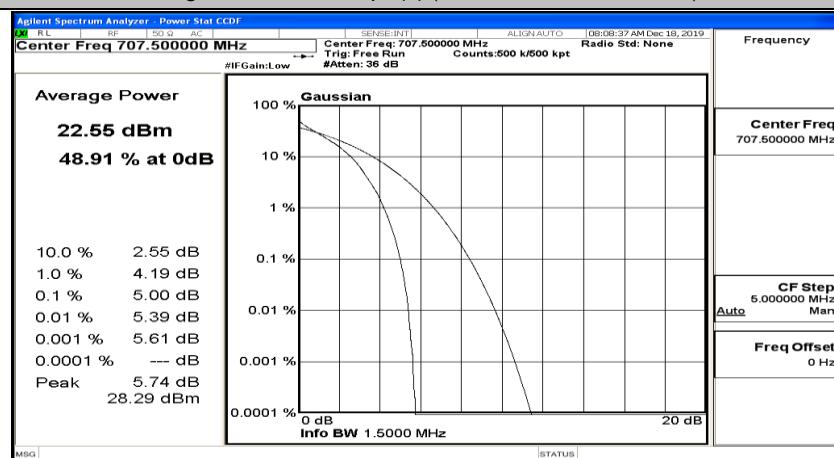
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.95	<13	PASS
	MCH	5.23	<13	PASS
	HCH	4.9	<13	PASS
16QAM	LCH	5.74	<13	PASS
	MCH	6	<13	PASS
	HCH	5.69	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.23	<13	PASS
	MCH	5.15	<13	PASS
	HCH	5.15	<13	PASS
16QAM	LCH	5.92	<13	PASS
	MCH	5.89	<13	PASS
	HCH	5.86	<13	PASS

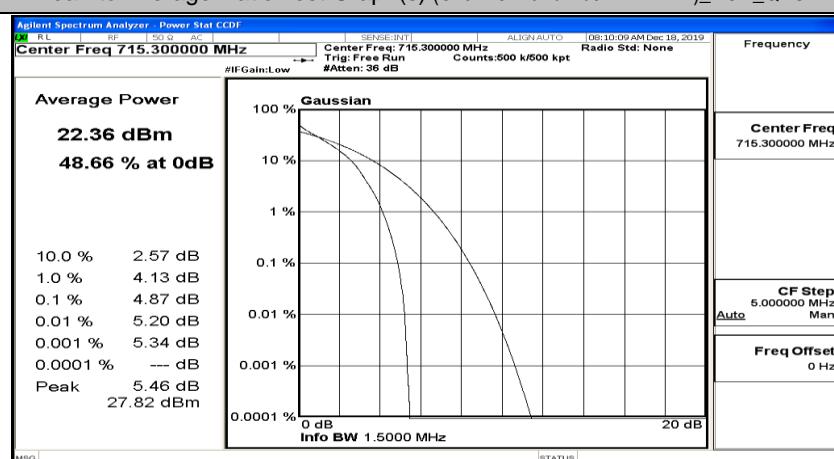
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



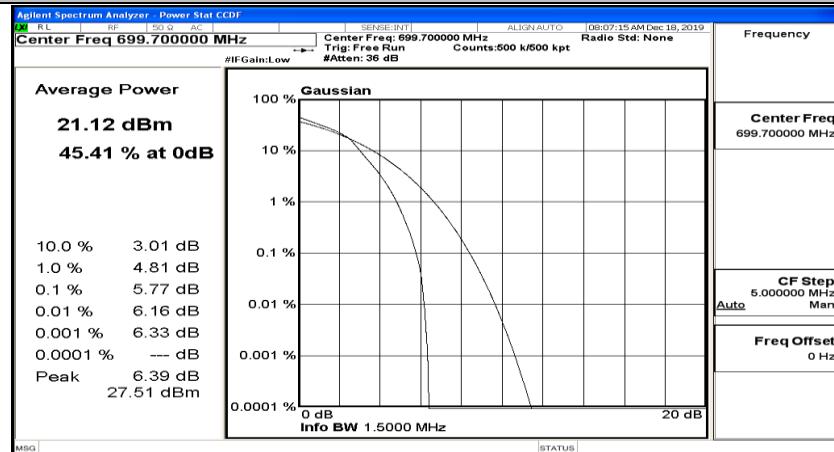
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



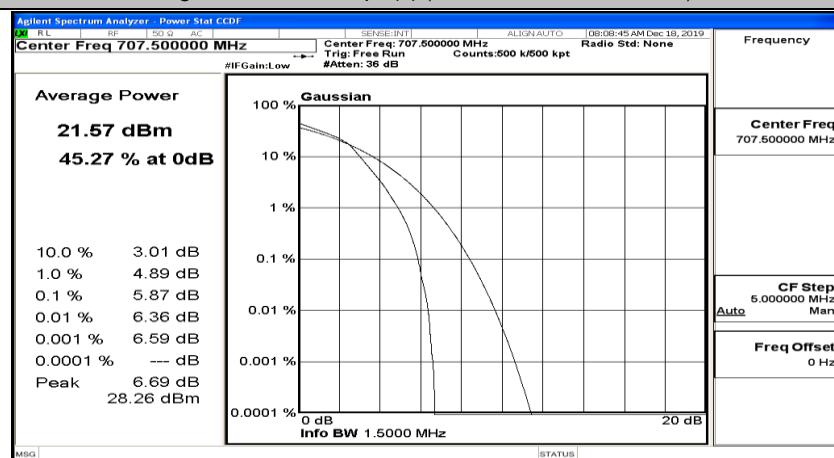
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



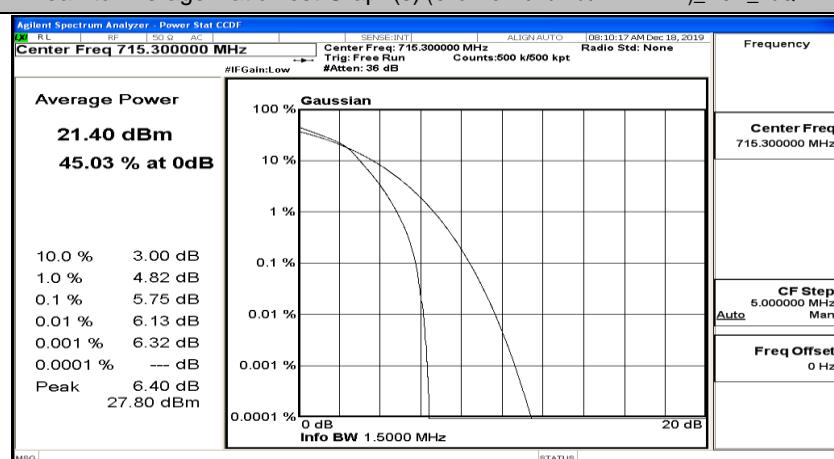
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



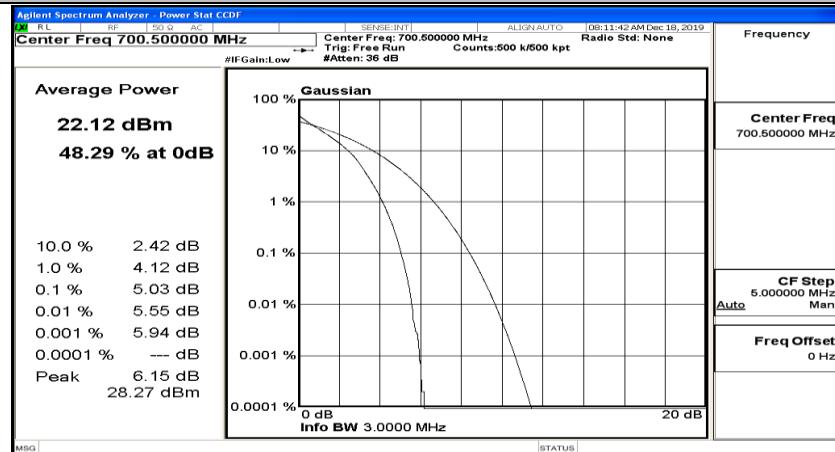
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



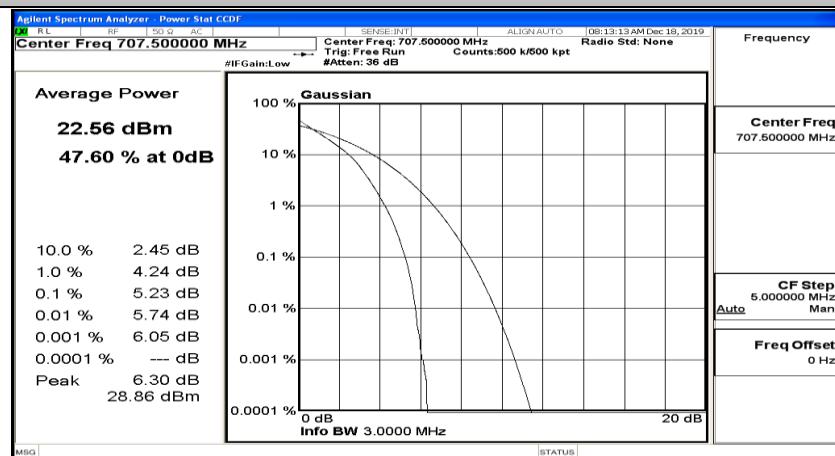
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



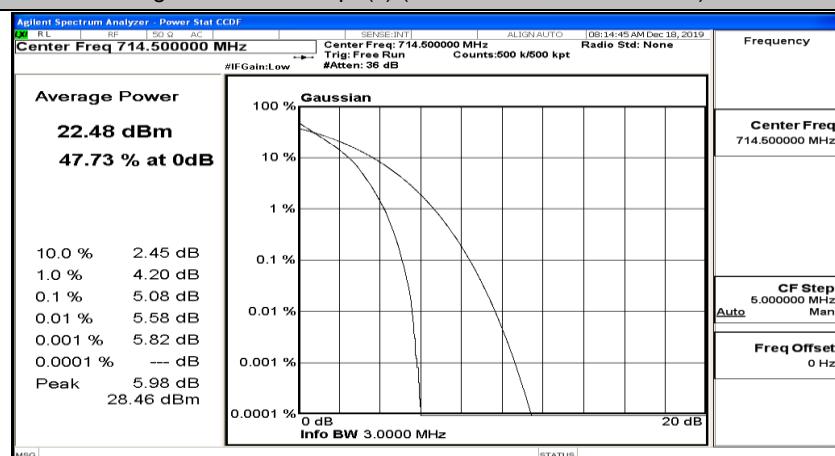
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



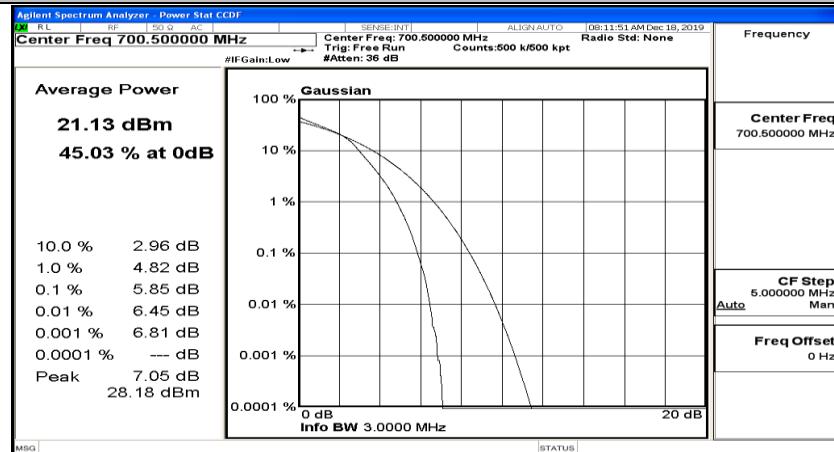
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



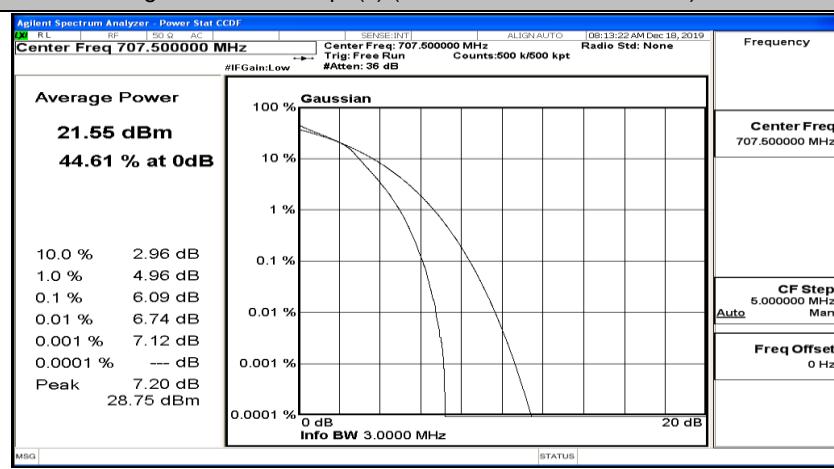
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



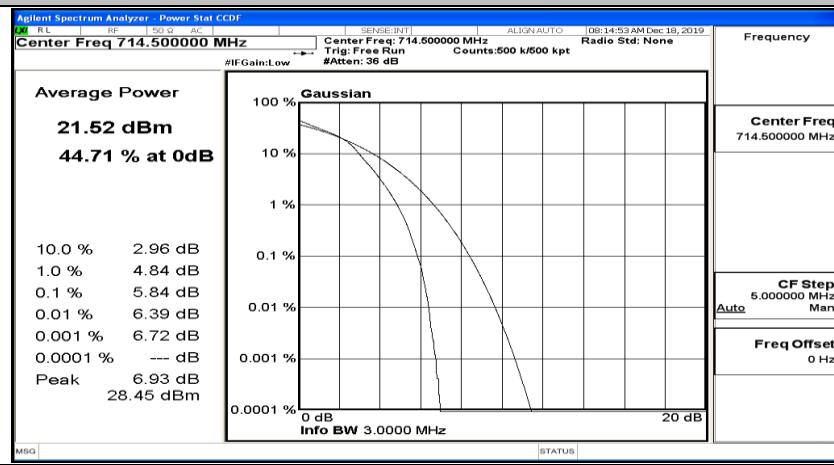
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



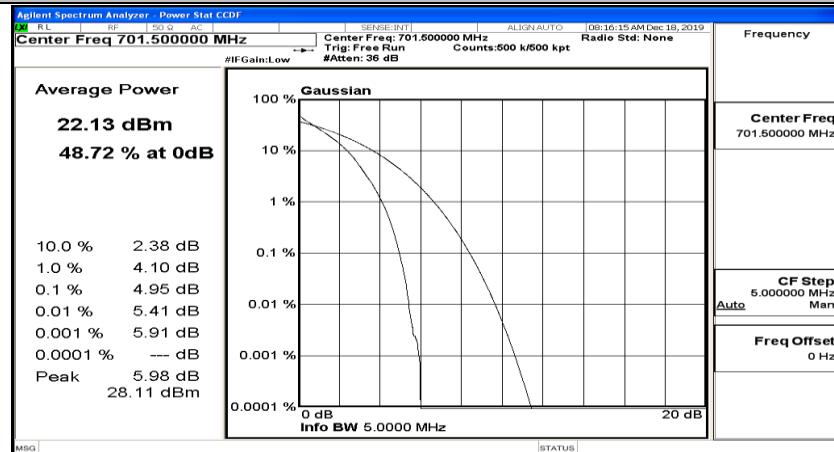
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



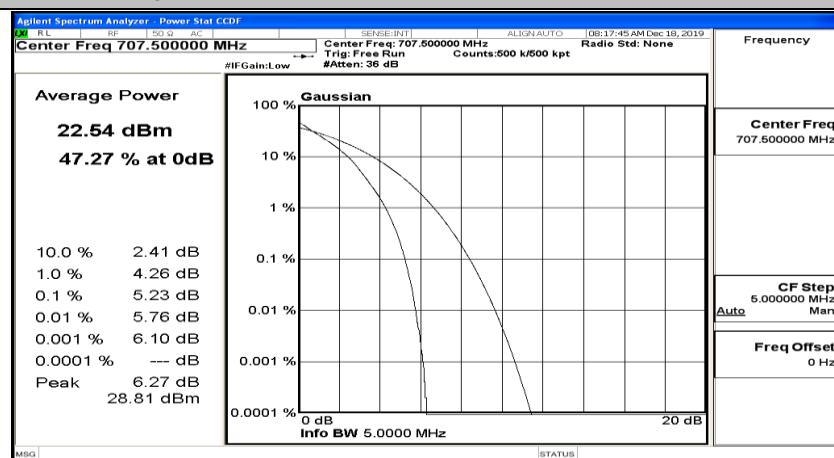
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



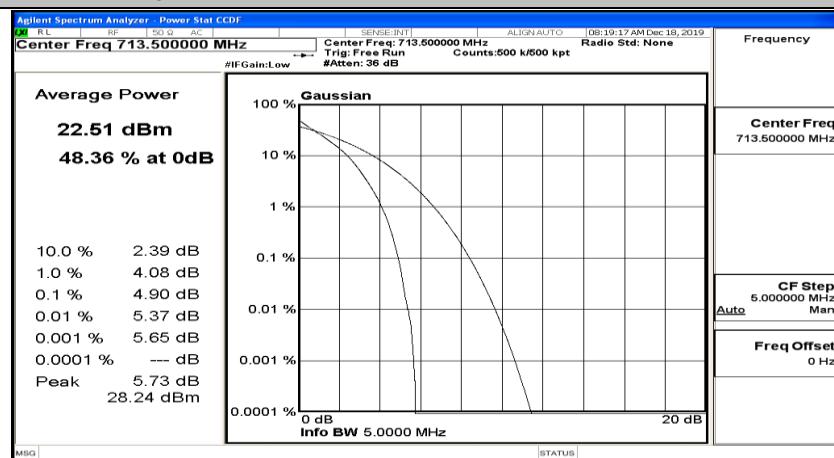
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



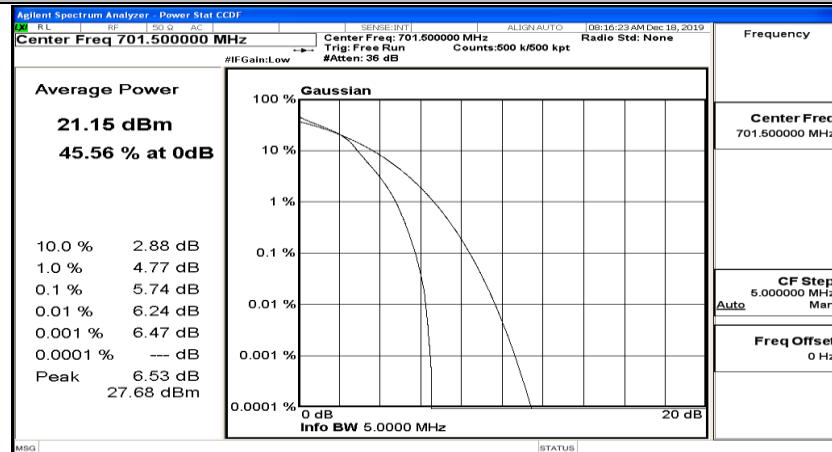
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



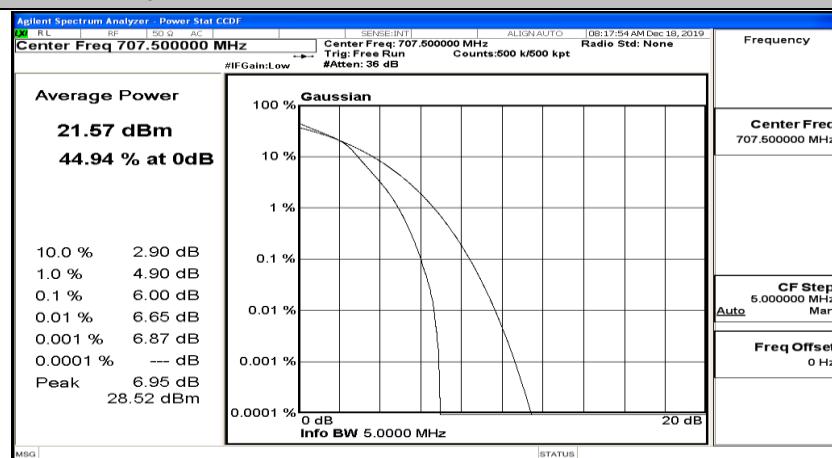
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



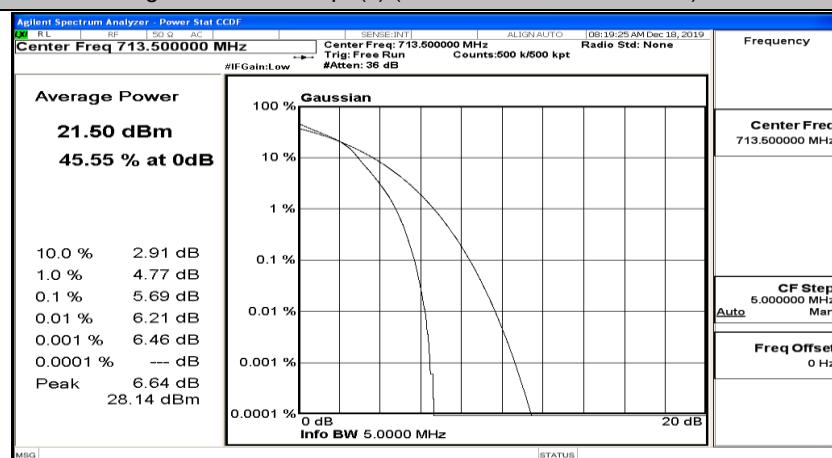
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



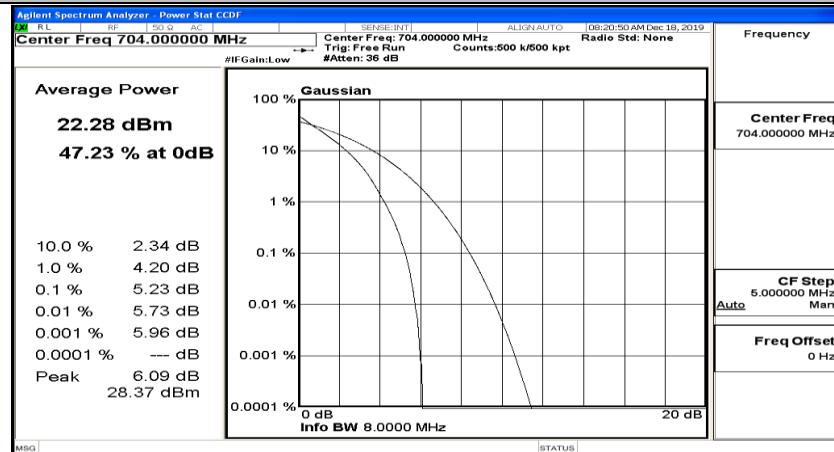
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



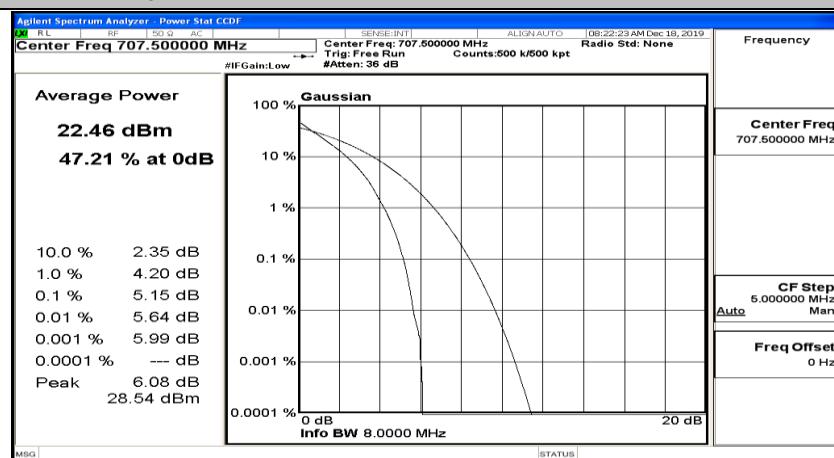
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



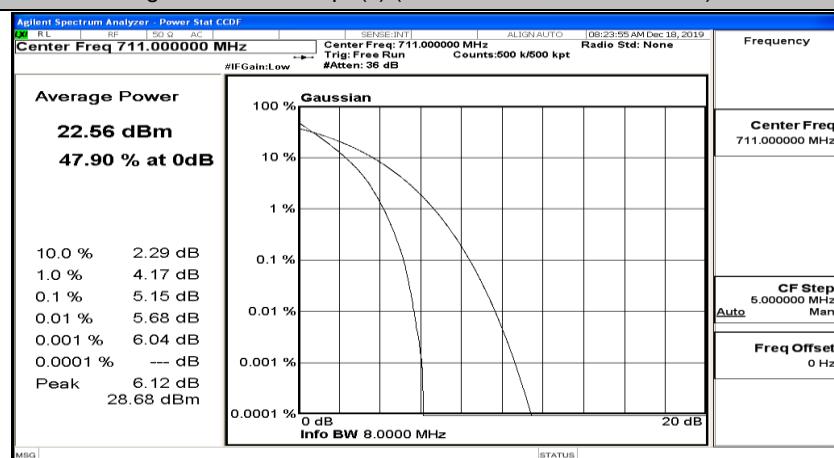
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



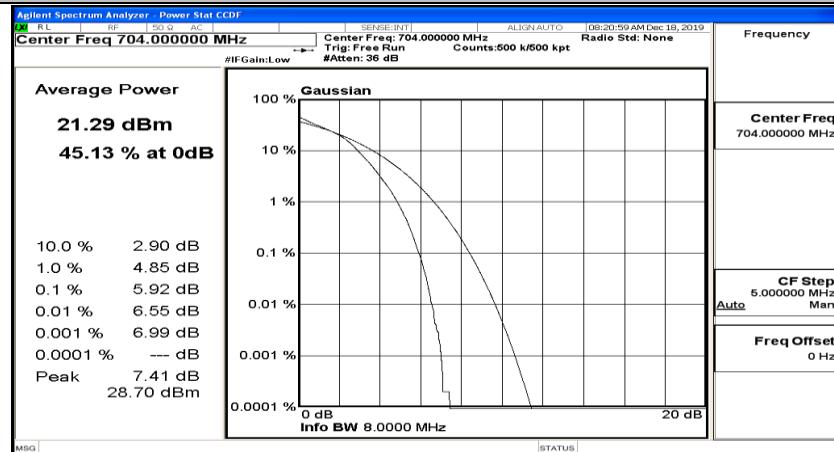
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



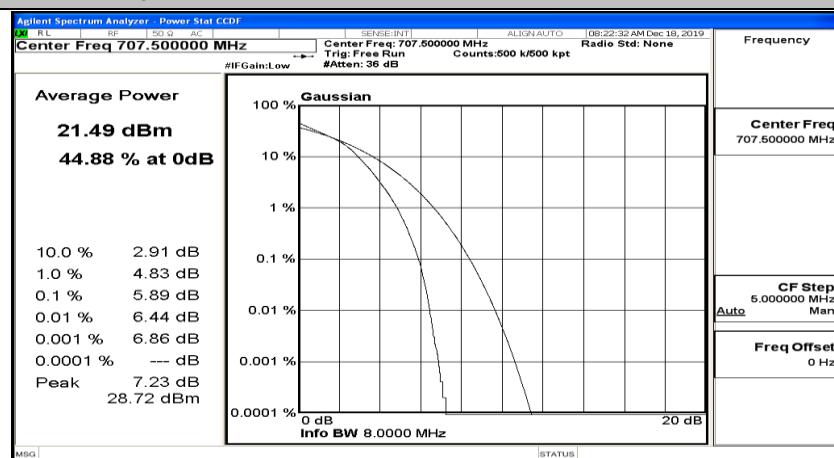
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



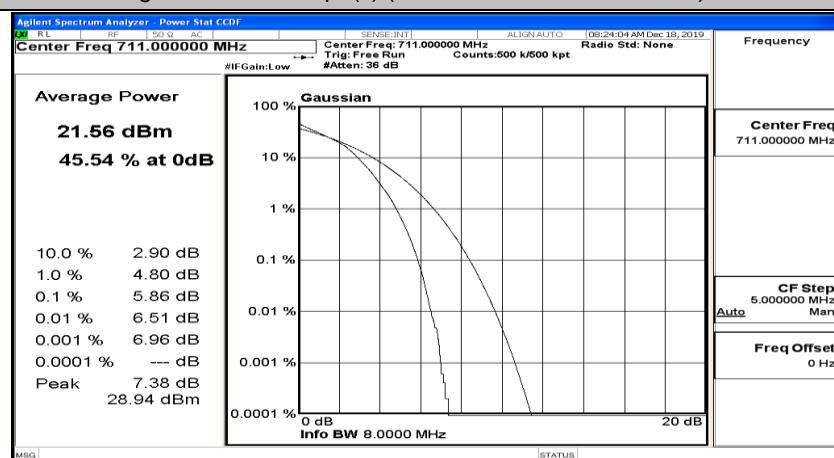
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



A.3 26dB Bandwidth and Occupied Bandwidth

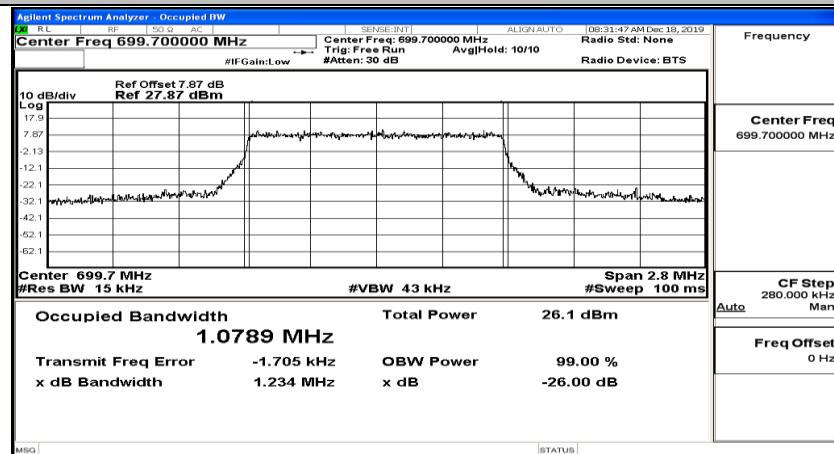
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0789	1.234	PASS
	MCH	1.0745	1.230	PASS
	HCH	1.0773	1.232	PASS
16QAM	LCH	1.0805	1.215	PASS
	MCH	1.0787	1.222	PASS
	HCH	1.0769	1.215	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6868	2.876	PASS
	MCH	2.6836	0.0000	PASS
	HCH	2.6805	2.879	PASS
16QAM	LCH	2.6838	2.853	PASS
	MCH	2.6837	2.878	PASS
	HCH	2.6852	2.861	PASS

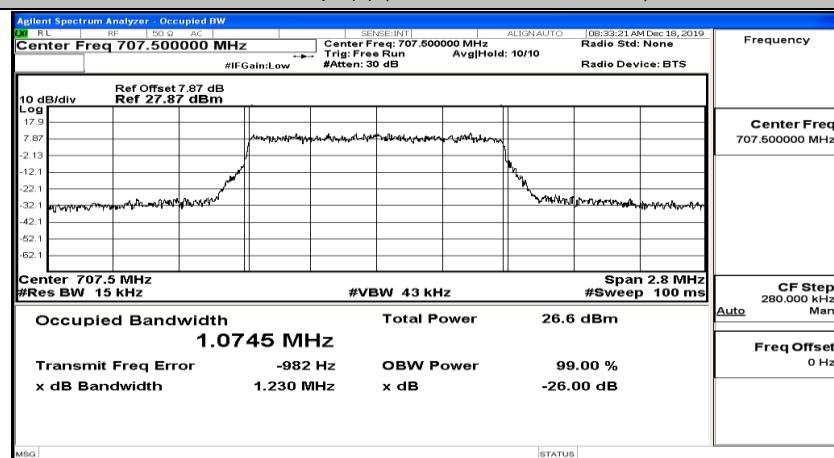
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4784	4.797	PASS
	MCH	4.4833	4.787	PASS
	HCH	4.4785	4.819	PASS
16QAM	LCH	4.4814	4.826	PASS
	MCH	4.4842	4.851	PASS
	HCH	4.4834	4.838	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9303	9.483	PASS
	MCH	8.9553	9.526	PASS
	HCH	8.9368	9.444	PASS
16QAM	LCH	8.9355	9.432	PASS
	MCH	8.9522	9.541	PASS
	HCH	8.9465	9.441	PASS

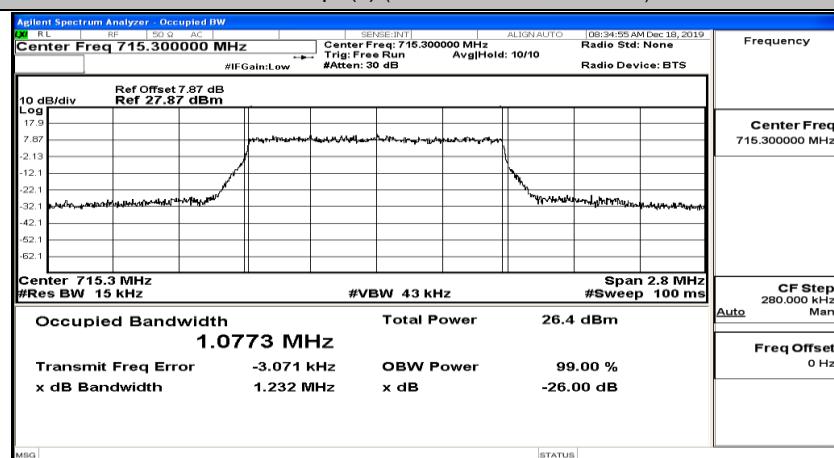
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



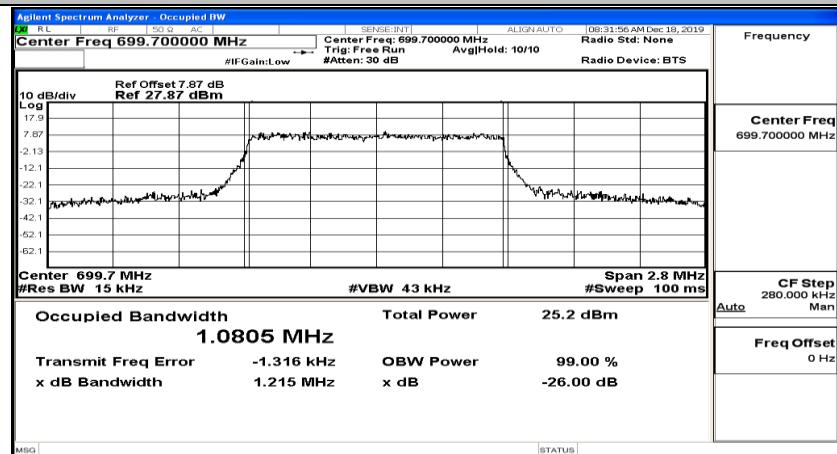
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



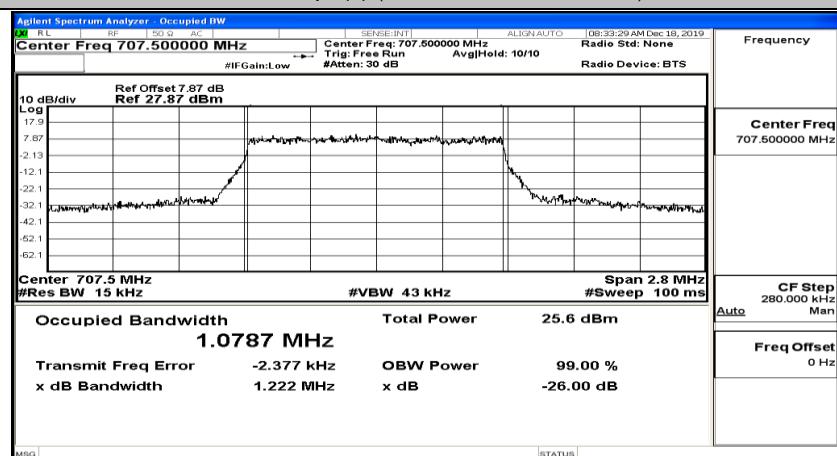
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



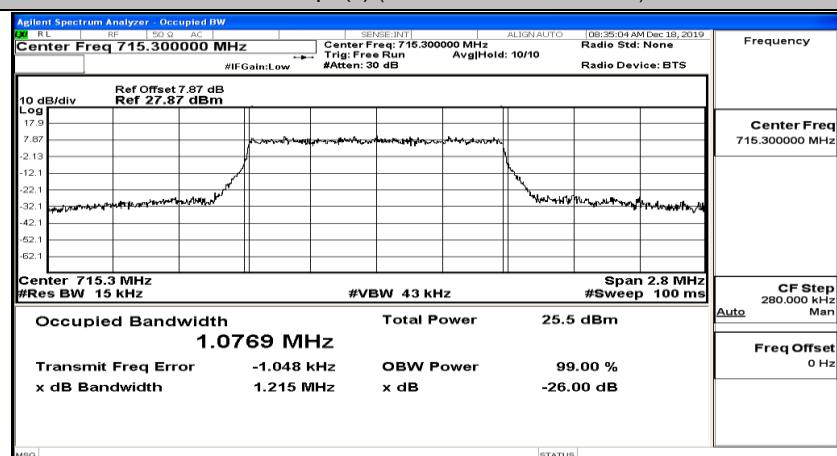
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



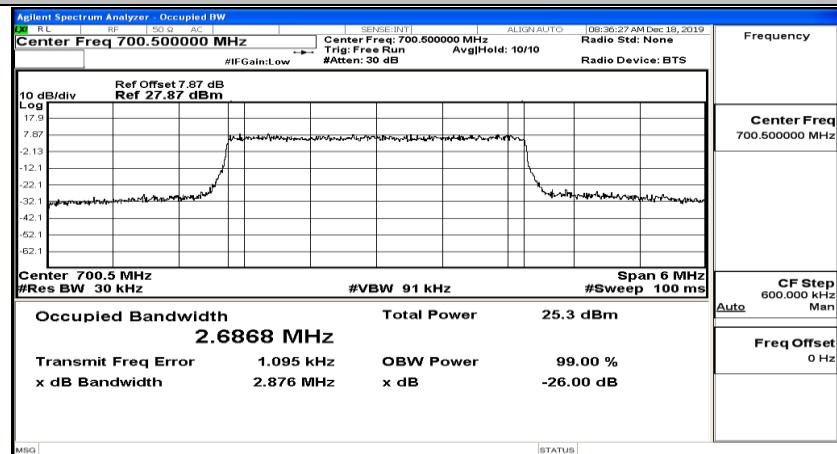
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



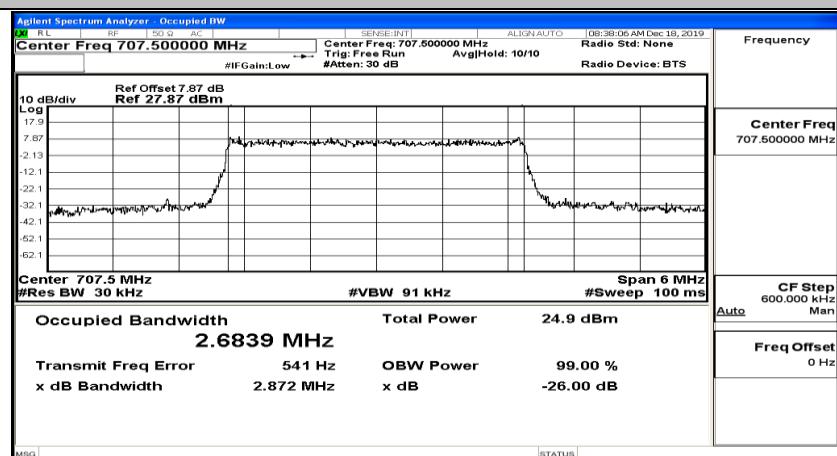
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



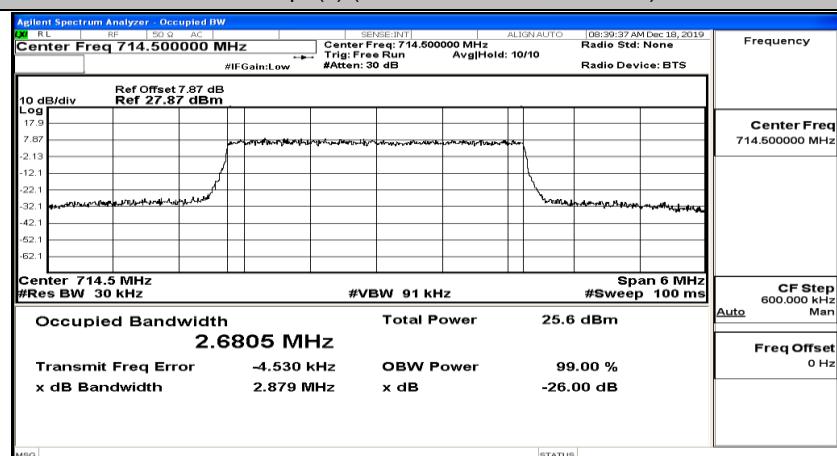
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



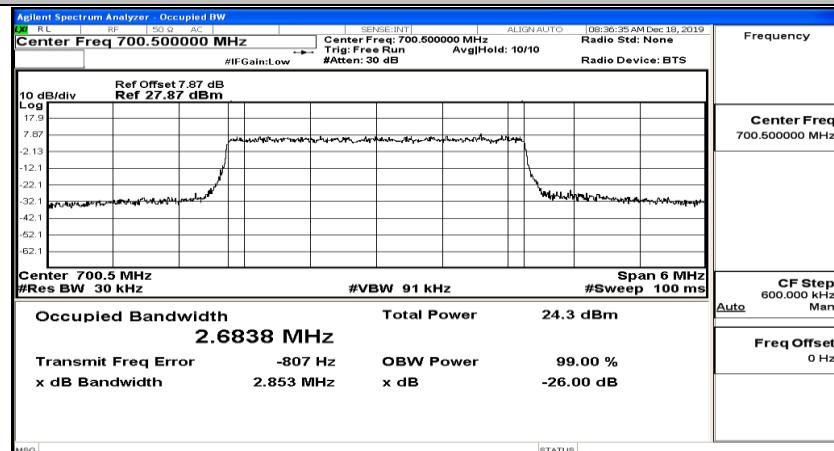
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



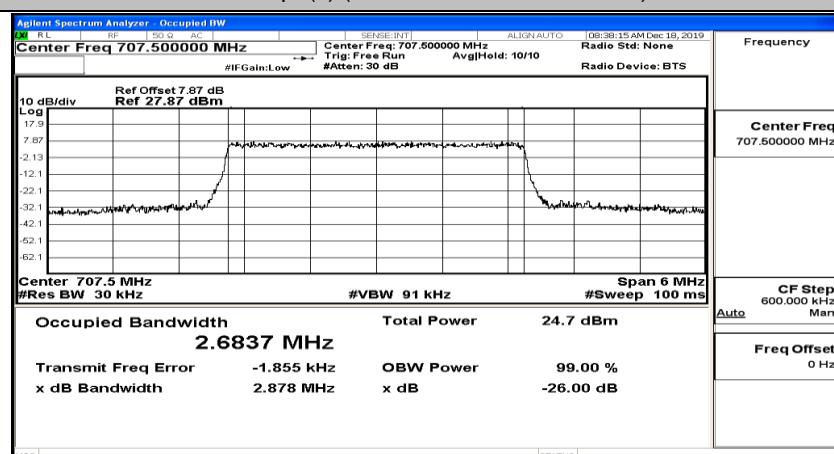
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



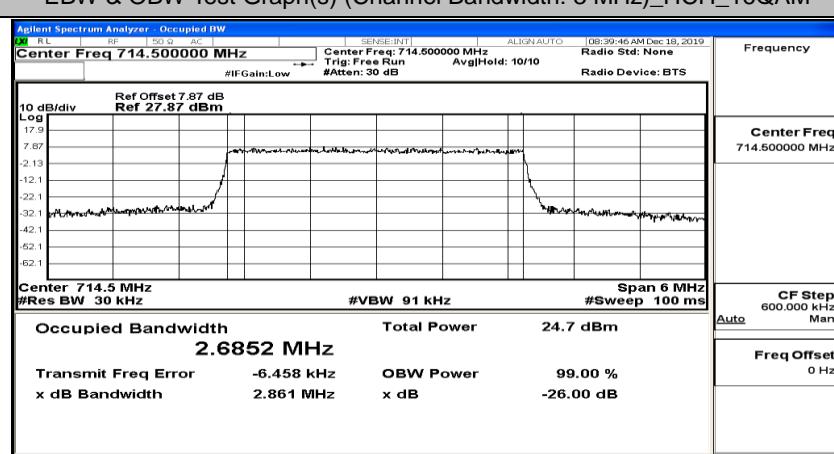
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



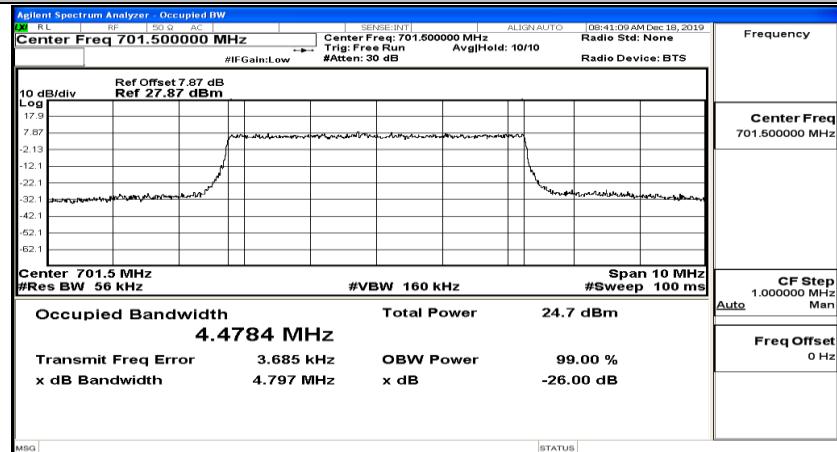
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



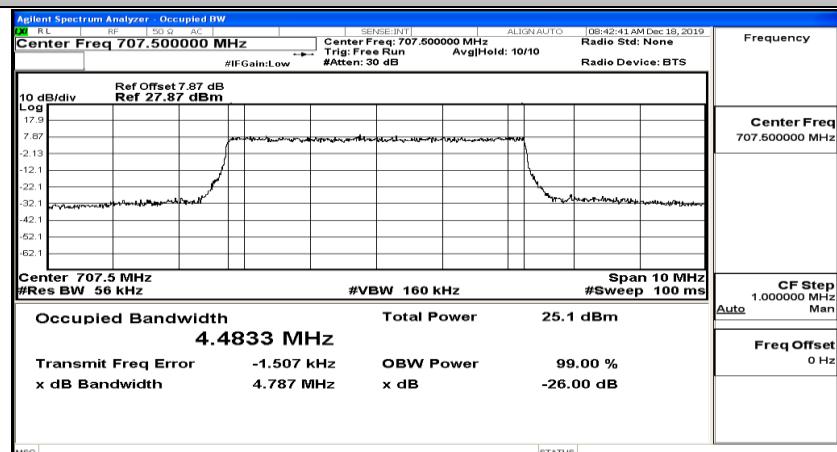
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



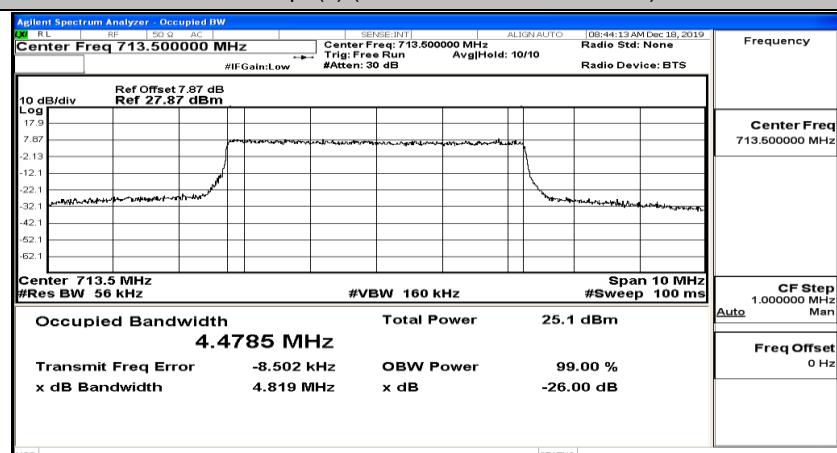
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



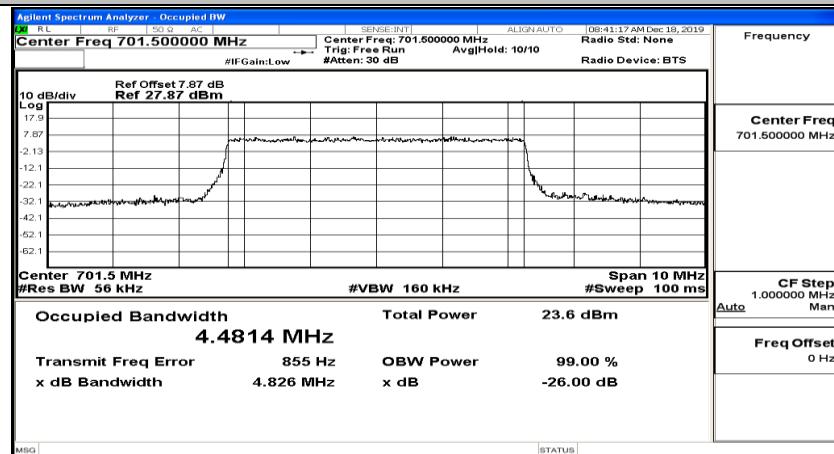
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



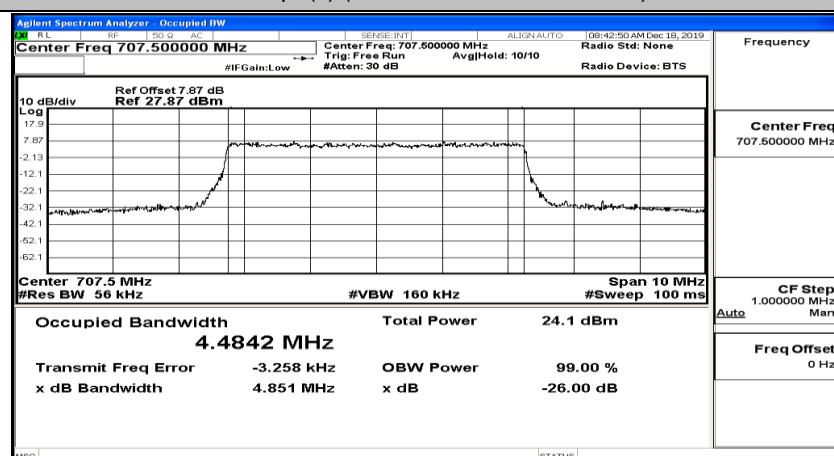
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



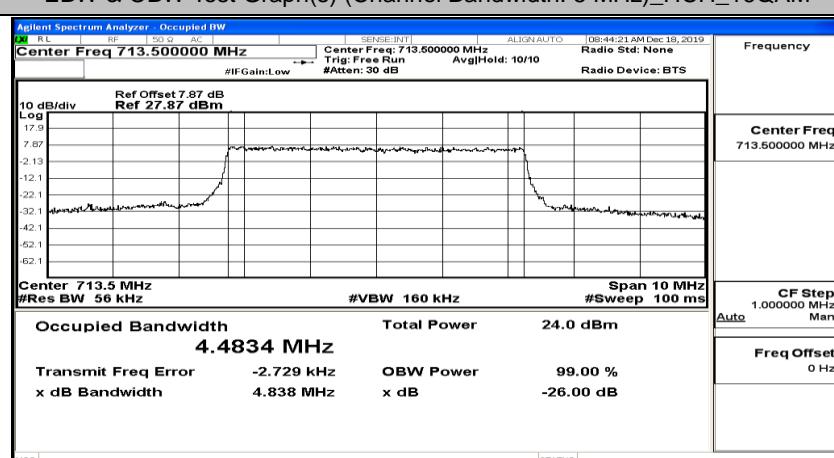
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



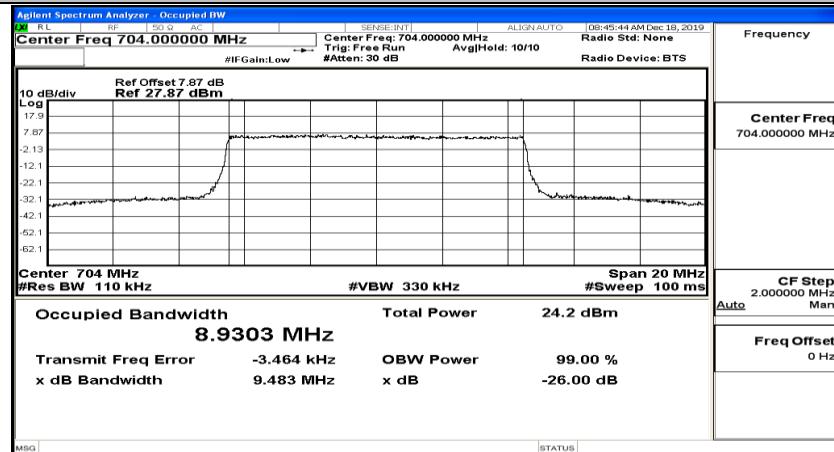
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



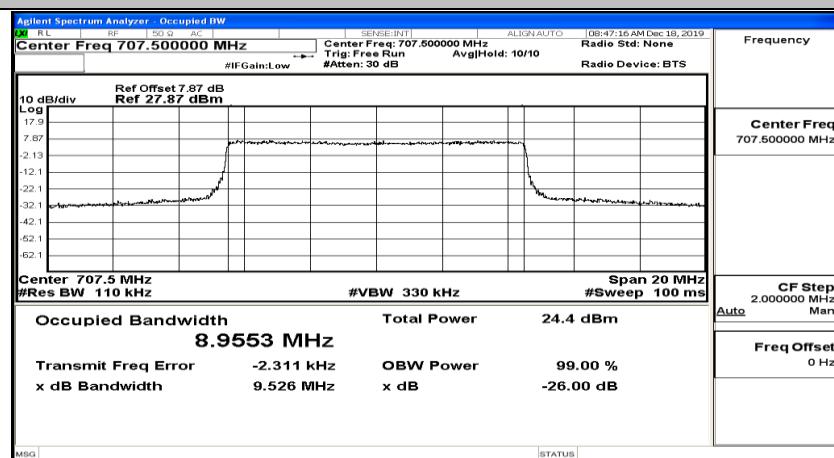
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



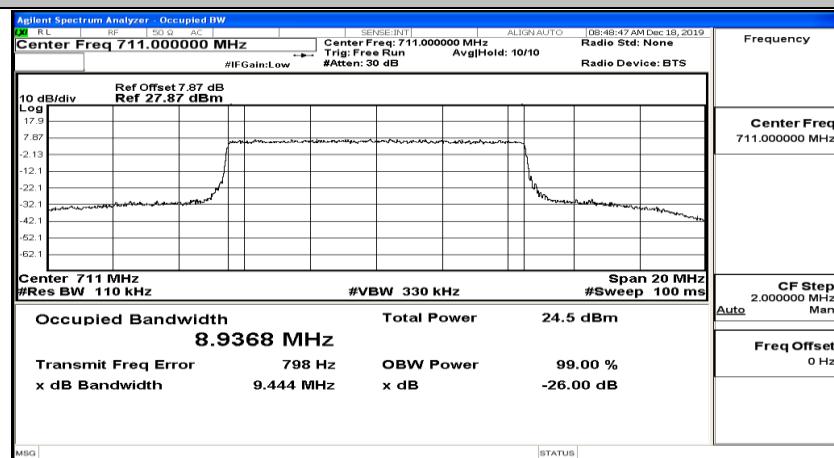
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



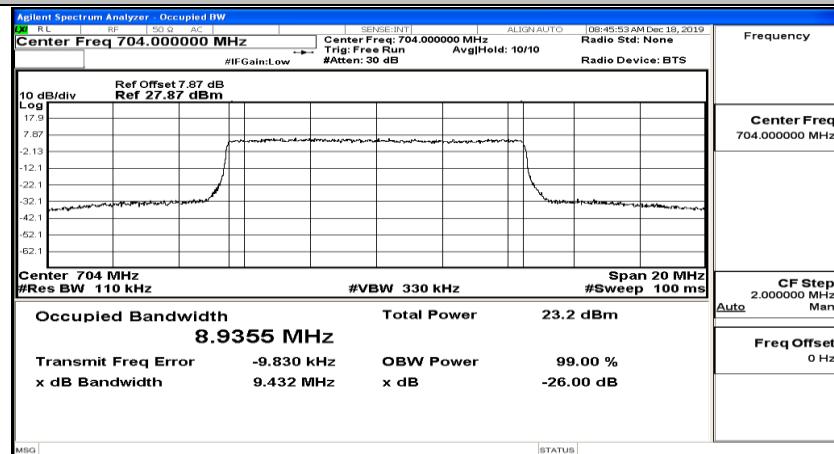
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



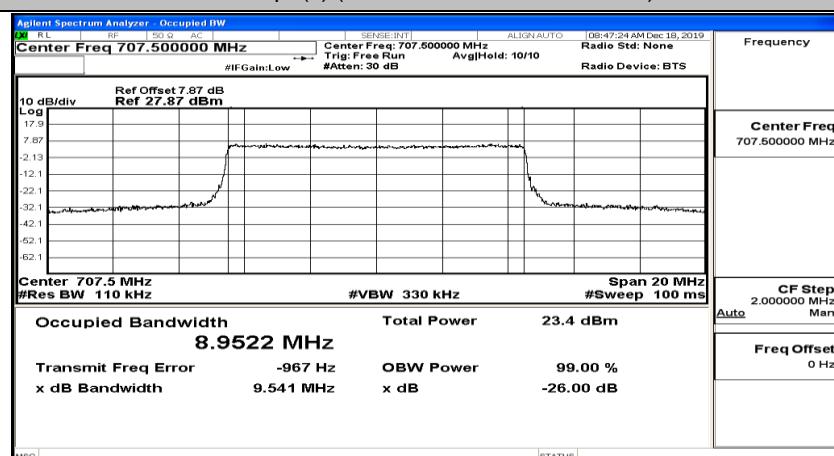
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



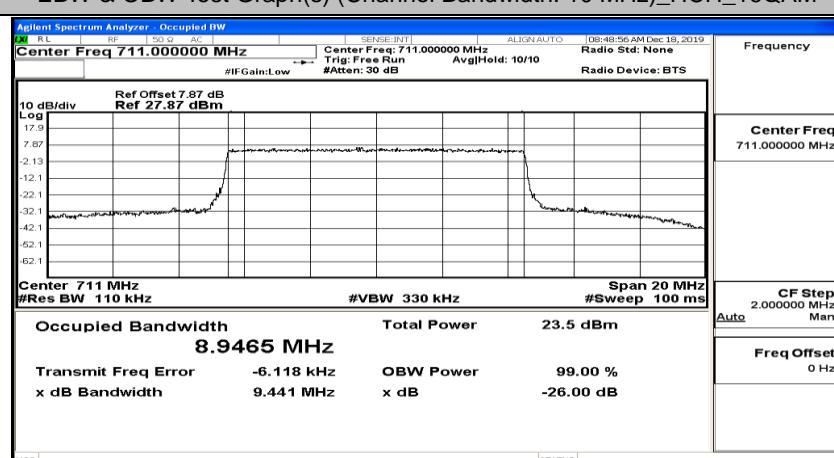
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

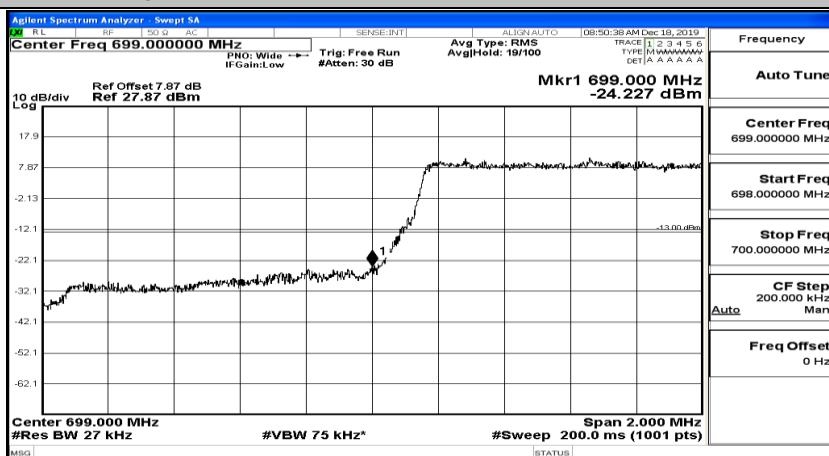


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

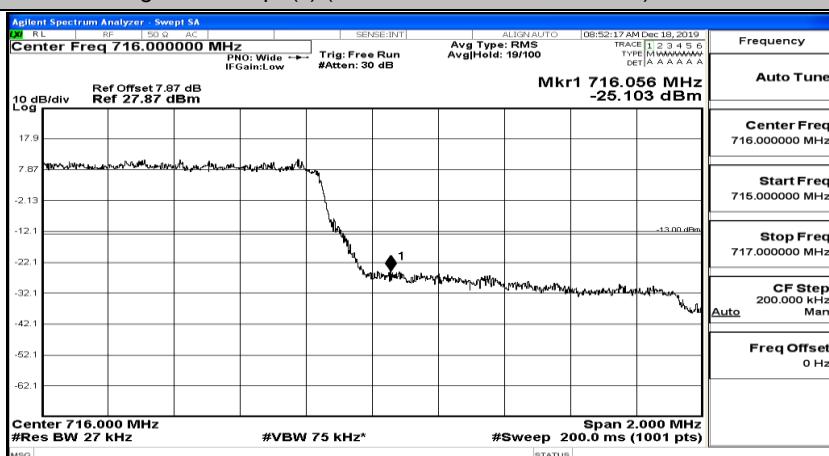


A.4 Band Edge

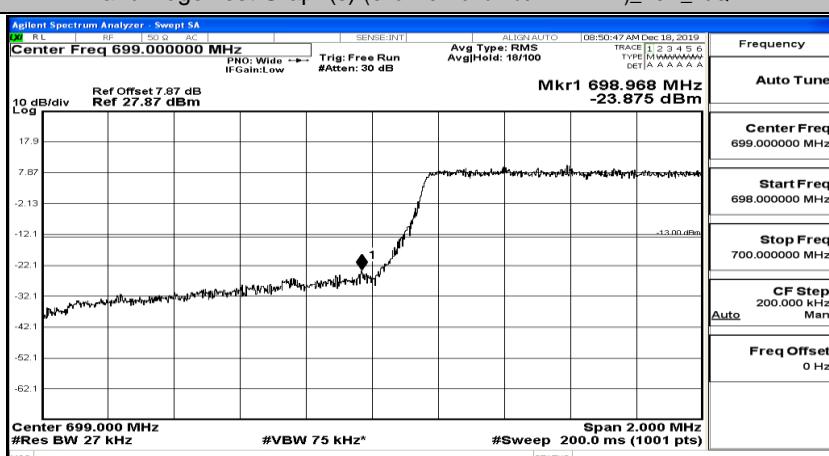
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



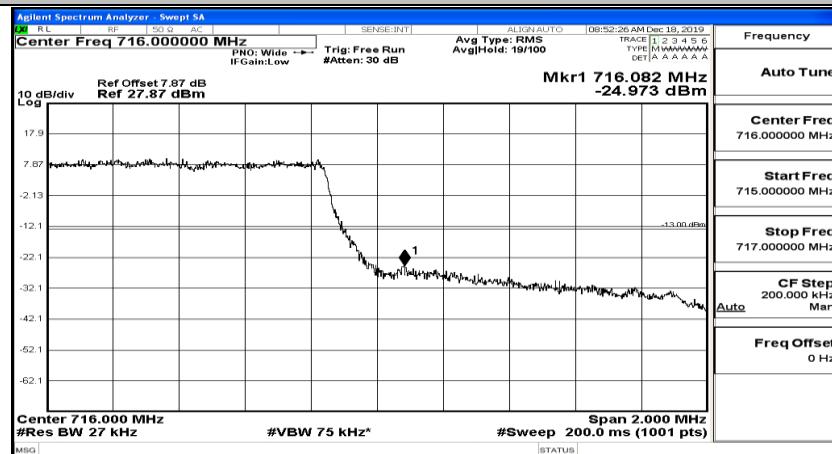
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



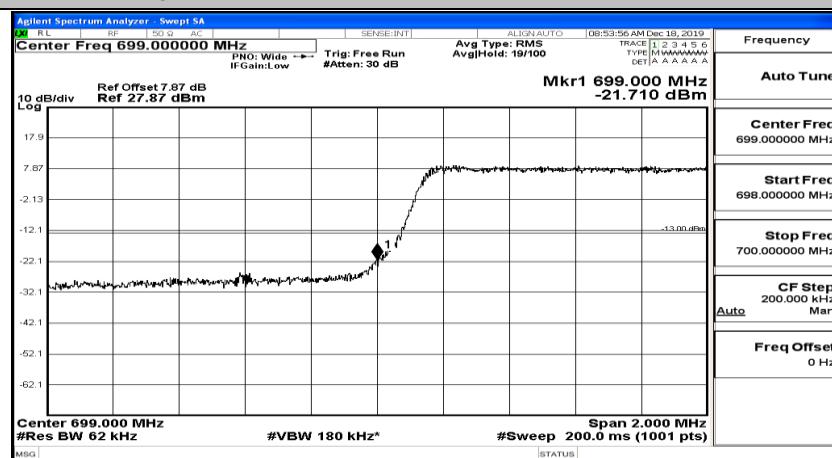
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



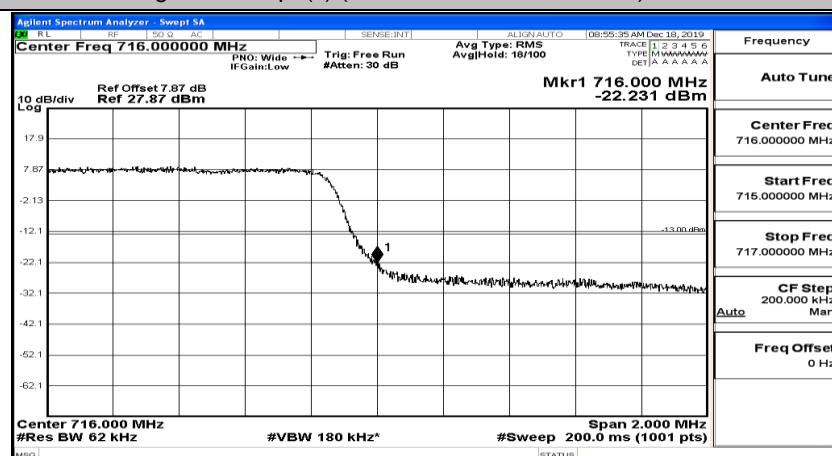
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



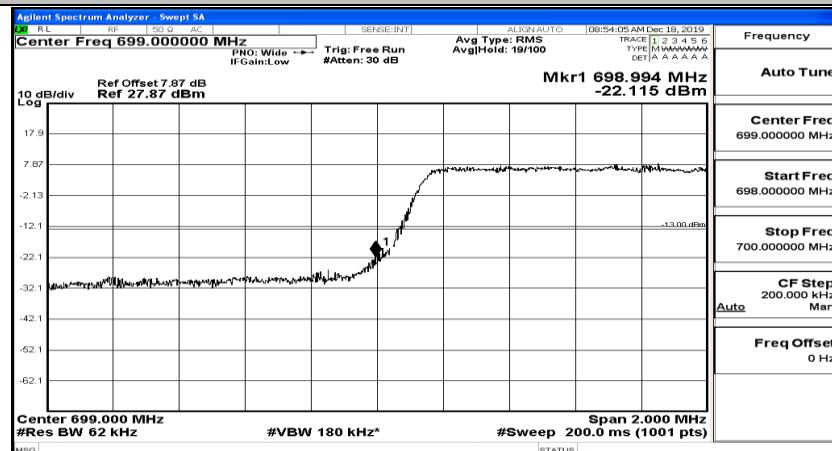
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



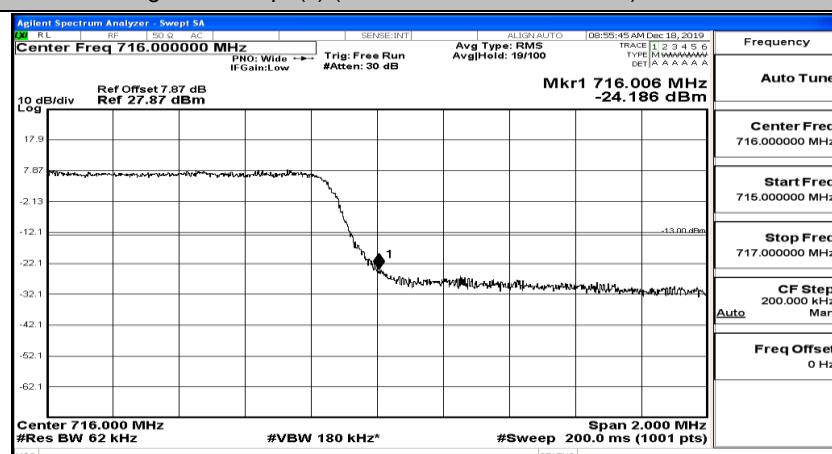
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



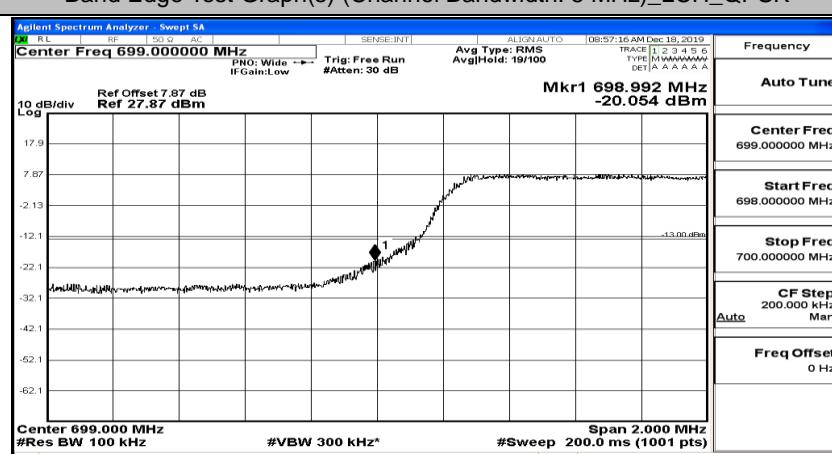
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



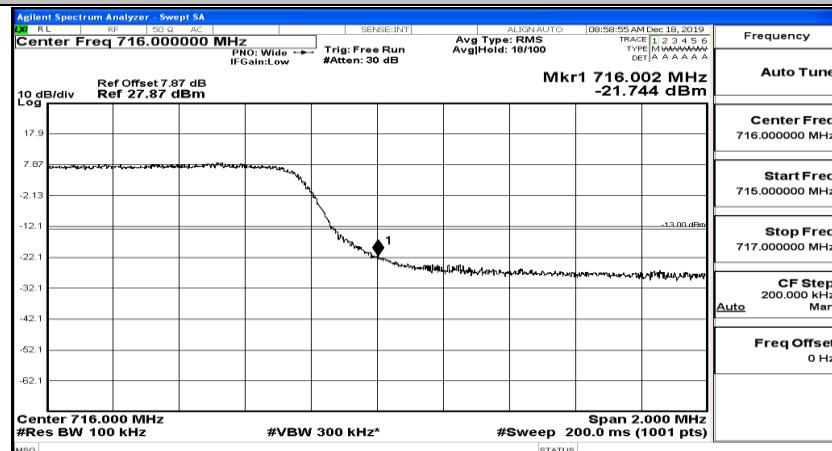
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



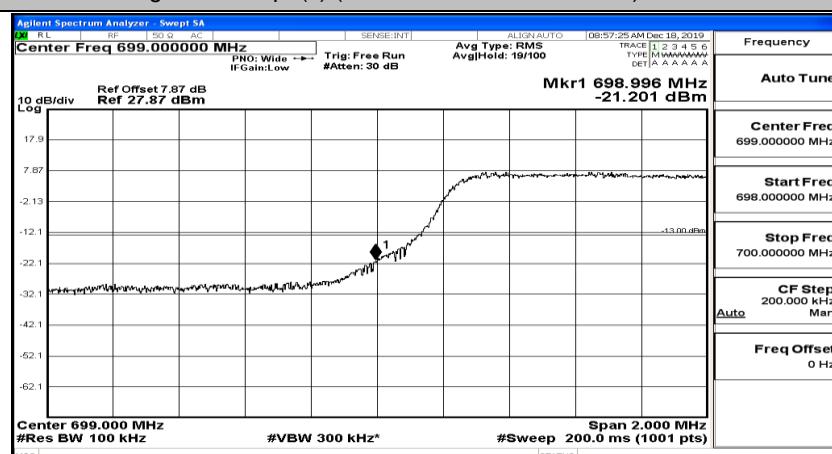
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



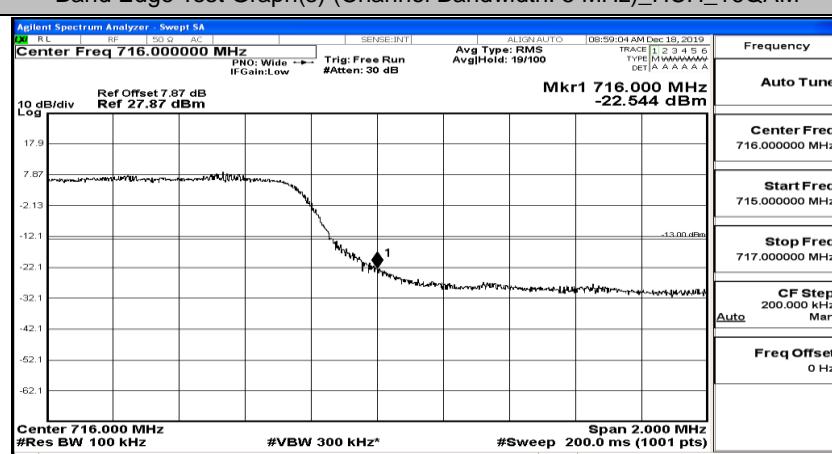
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



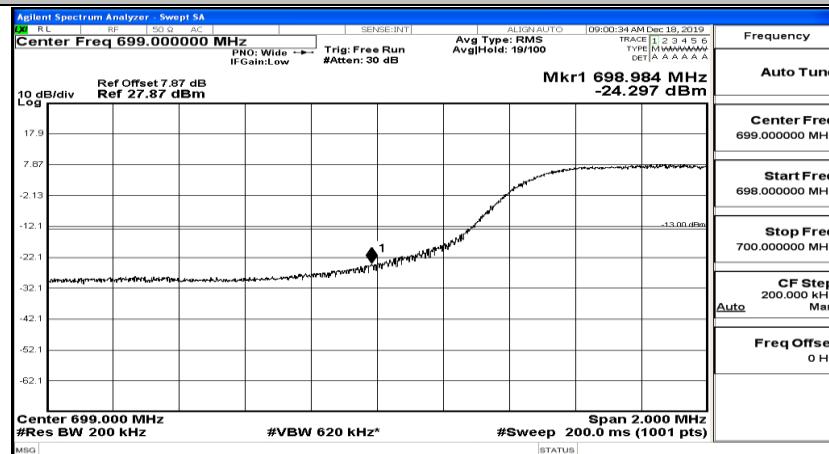
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



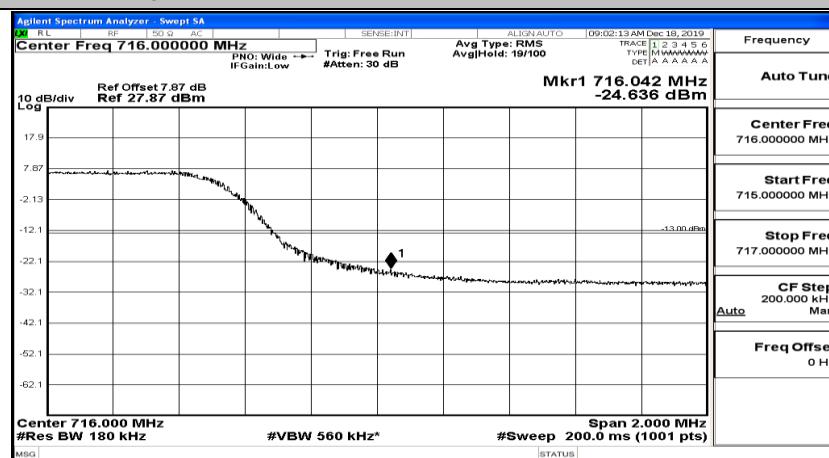
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



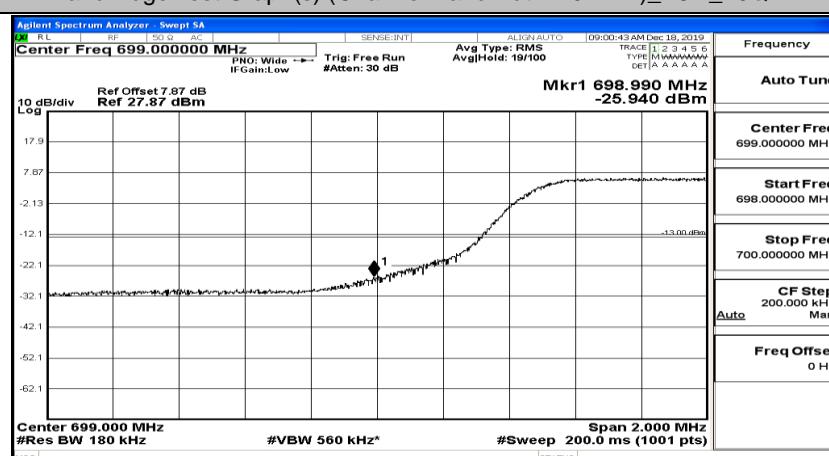
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



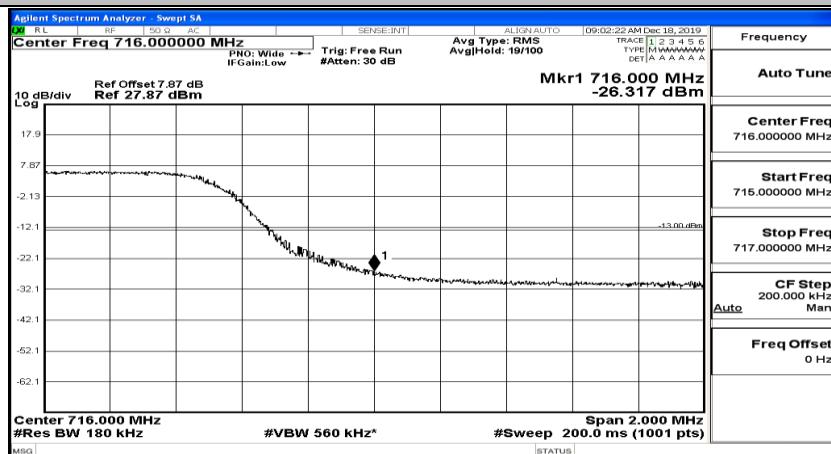
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



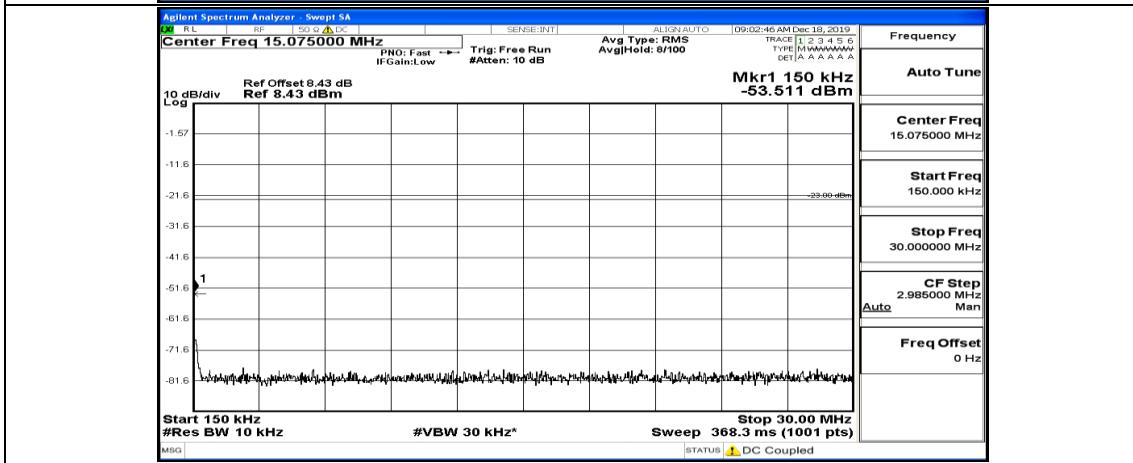
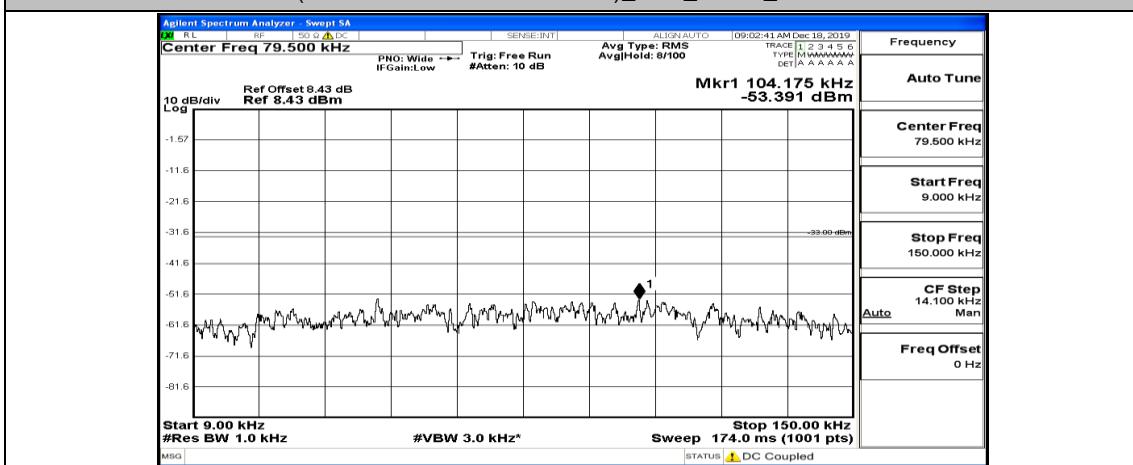
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

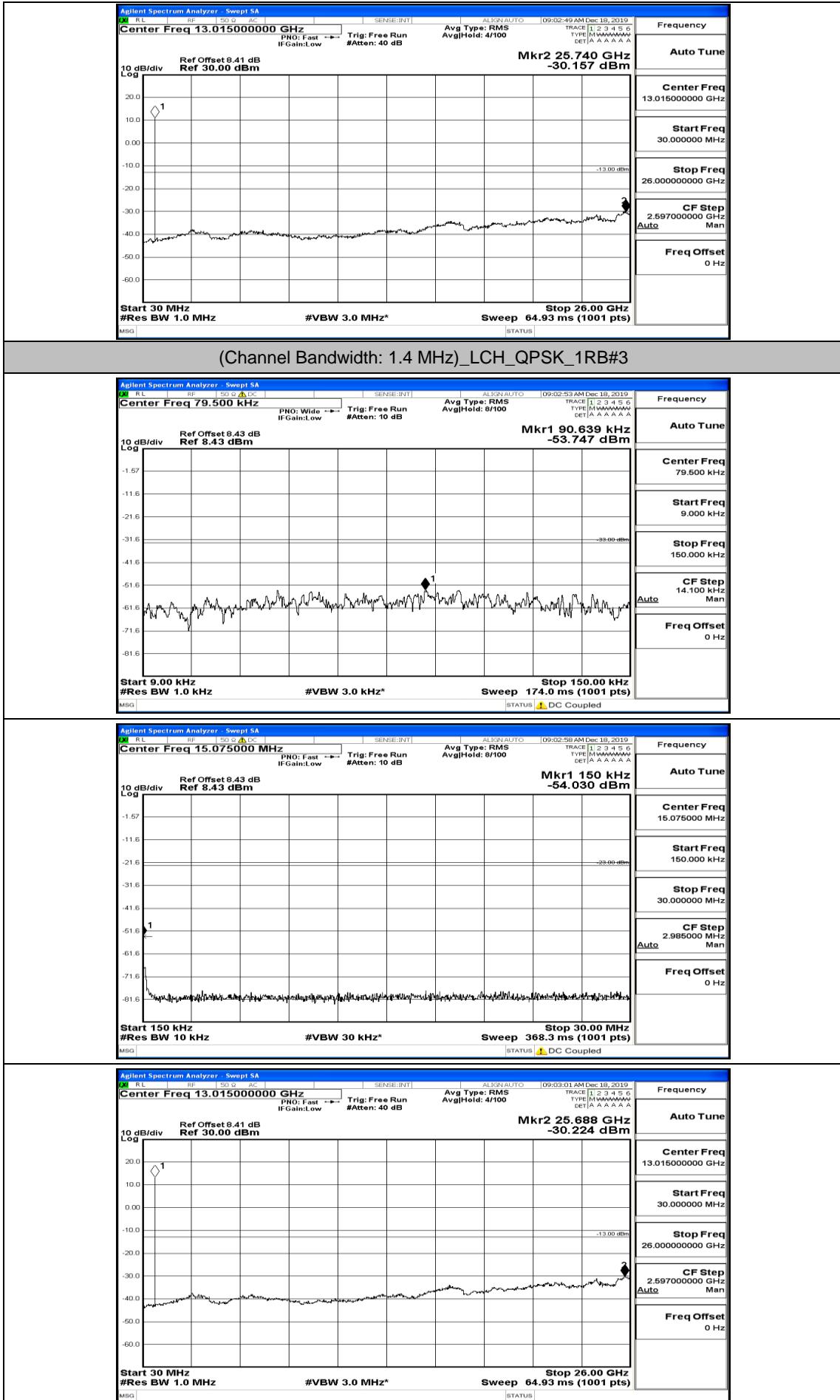


A.5 Conducted Spurious Emission Test Graphs

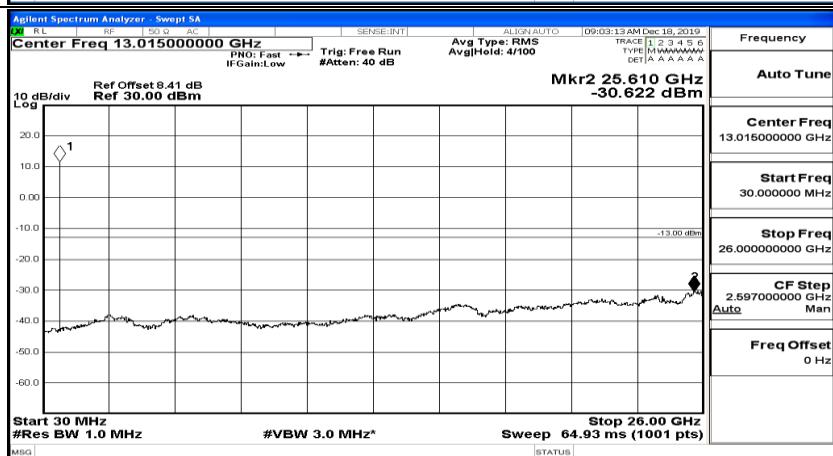
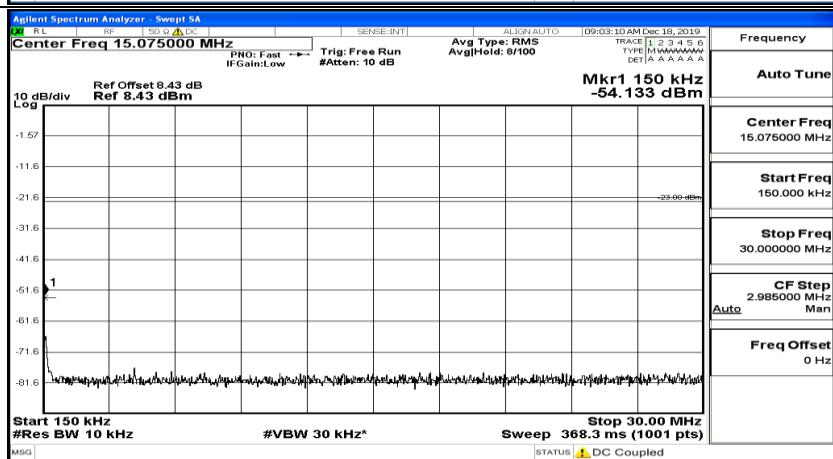
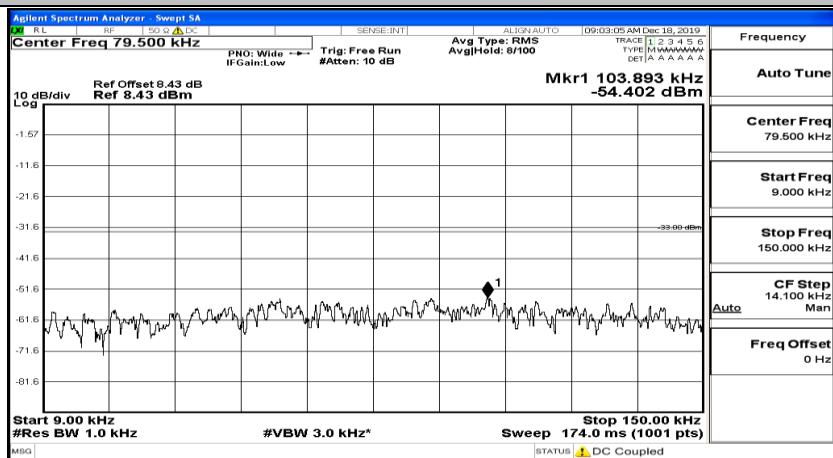
Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0





(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0