

Appendix C: Test Data for E-UTRA Band 5

Product Name: PERSONAL GPS TRACKER

Trade Mark: Meitrack

Test Model: MT90L

Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	lihuan
Supervised by:	Tom.Liu

A.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	25.29	24.41	PASS
		1	3	25.41	24.58	PASS
		1	5	25.26	24.45	PASS
		3	0	25.32	24.38	PASS
		3	2	25.37	24.40	PASS
		3	3	25.31	24.39	PASS
		6	0	24.33	23.30	PASS
	MCH	1	0	25.71	24.81	PASS
		1	3	25.79	25.01	PASS
		1	5	25.70	24.89	PASS
		3	0	25.71	24.55	PASS
		3	2	25.71	24.62	PASS
		3	3	25.69	24.61	PASS
		6	0	24.77	23.63	PASS
	HCH	1	0	25.67	24.74	PASS
		1	3	25.83	24.96	PASS
		1	5	25.68	24.70	PASS
		3	0	25.69	24.63	PASS
		3	2	25.73	24.65	PASS
		3	3	25.65	24.61	PASS
		6	0	24.82	23.86	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	25.25	24.46	PASS
		1	7	25.45	24.65	PASS
		1	14	25.29	24.46	PASS
		8	0	24.28	23.36	PASS
		8	4	24.31	23.41	PASS
		8	7	24.28	23.35	PASS
		15	0	24.25	23.26	PASS
	MCH	1	0	25.60	24.72	PASS
		1	7	25.97	24.94	PASS
		1	14	25.74	24.84	PASS
		8	0	24.70	23.72	PASS
		8	4	24.72	23.78	PASS
		8	7	24.71	23.74	PASS
		15	0	24.62	23.59	PASS
	HCH	1	0	25.75	25.00	PASS
		1	7	25.93	25.07	PASS
		1	14	25.71	24.84	PASS
		8	0	24.80	23.75	PASS
		8	4	24.82	23.78	PASS
		8	7	24.73	23.70	PASS
		15	0	24.68	23.68	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	25.22	24.47	PASS
		1	12	25.52	24.88	PASS
		1	24	25.29	24.46	PASS
		12	0	24.24	23.40	PASS
		12	6	24.32	23.44	PASS
		12	13	24.35	23.44	PASS
		25	0	24.27	23.35	PASS
	MCH	1	0	25.55	24.69	PASS
		1	12	25.93	25.12	PASS
		1	24	25.66	24.92	PASS
		12	0	24.63	23.70	PASS
		12	6	24.71	23.82	PASS
		12	13	24.66	23.78	PASS
		25	0	24.62	23.67	PASS
	HCH	1	0	25.81	24.68	PASS
		1	12	26.09	24.90	PASS
		1	24	25.73	24.43	PASS
		12	0	24.77	23.81	PASS
		12	6	24.77	23.77	PASS
		12	13	24.68	23.67	PASS
		25	0	24.72	23.72	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	25.28	24.49	PASS
		1	24	25.54	24.64	PASS
		1	49	25.53	24.63	PASS
		25	0	24.31	23.32	PASS
		25	12	24.41	23.40	PASS
		25	25	24.50	23.49	PASS
		50	0	24.37	23.41	PASS
	MCH	1	0	25.46	24.58	PASS
		1	24	25.81	24.97	PASS
		1	49	25.78	24.98	PASS
		25	0	24.62	23.59	PASS
		25	12	24.69	23.72	PASS
		25	25	24.76	23.79	PASS
		50	0	24.63	23.66	PASS
	HCH	1	0	25.77	25.04	PASS
		1	24	25.95	25.25	PASS
		1	49	25.71	24.90	PASS
		25	0	24.88	23.94	PASS
		25	12	24.85	23.90	PASS
		25	25	24.74	23.77	PASS
		50	0	24.82	23.87	PASS

A.2 Peak-to-Average Ratio

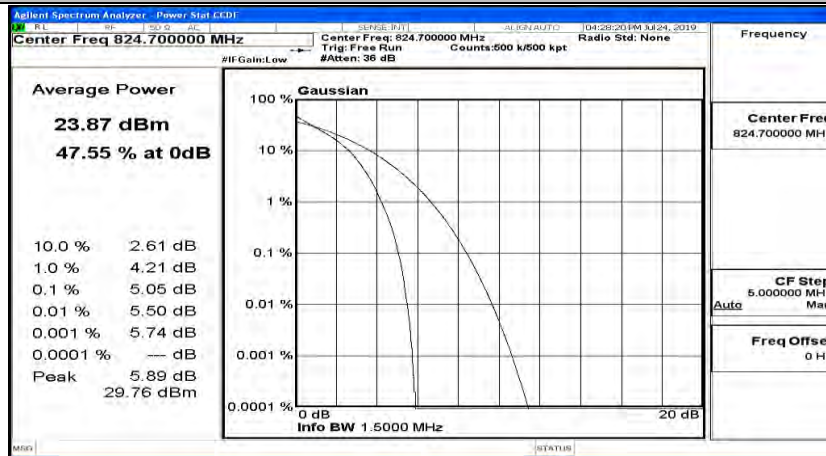
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.05	<13	PASS
	MCH	4.29	<13	PASS
	HCH	4.25	<13	PASS
16QAM	LCH	5.92	<13	PASS
	MCH	5.22	<13	PASS
	HCH	5.13	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.09	<13	PASS
	MCH	4.6	<13	PASS
	HCH	4.65	<13	PASS
16QAM	LCH	6.04	<13	PASS
	MCH	5.48	<13	PASS
	HCH	5.45	<13	PASS

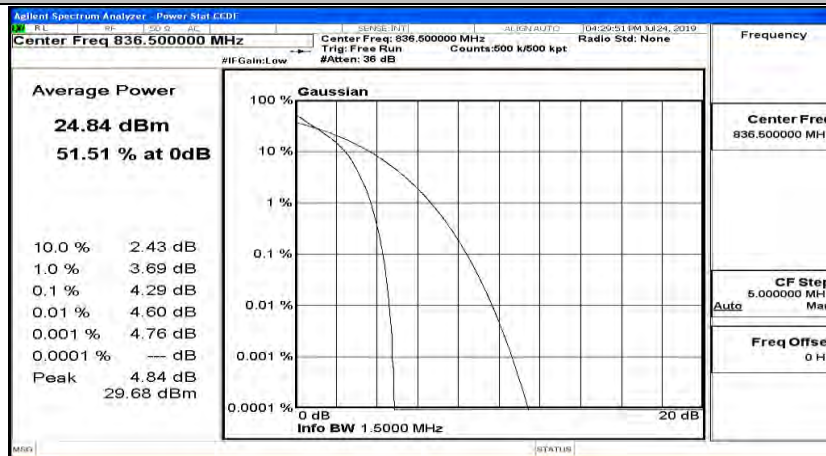
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.01	<13	PASS
	MCH	4.59	<13	PASS
	HCH	4.79	<13	PASS
16QAM	LCH	5.83	<13	PASS
	MCH	5.37	<13	PASS
	HCH	5.57	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.84	<13	PASS
	MCH	4.78	<13	PASS
	HCH	5	<13	PASS
16QAM	LCH	5.55	<13	PASS
	MCH	5.5	<13	PASS
	HCH	5.75	<13	PASS

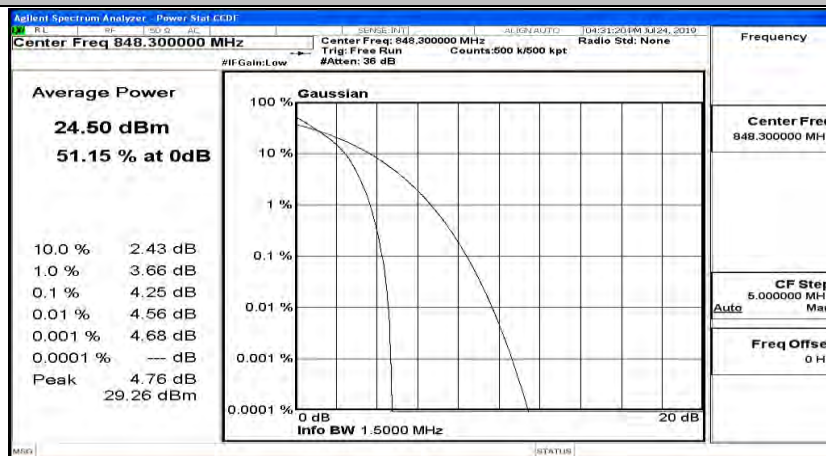
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



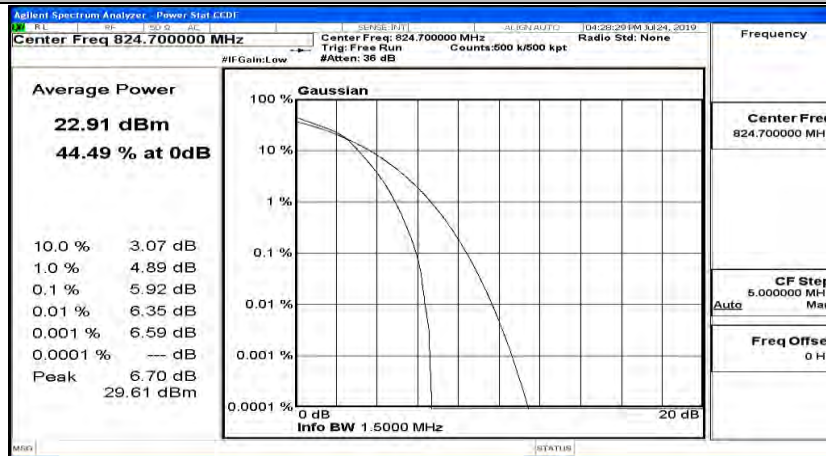
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



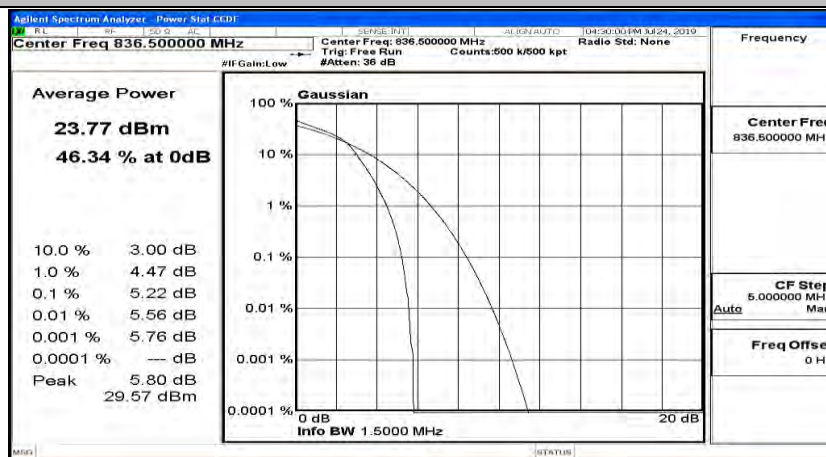
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



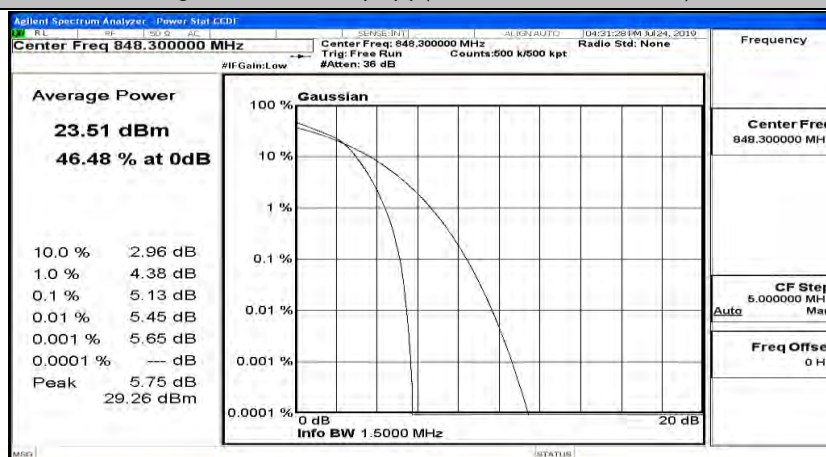
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



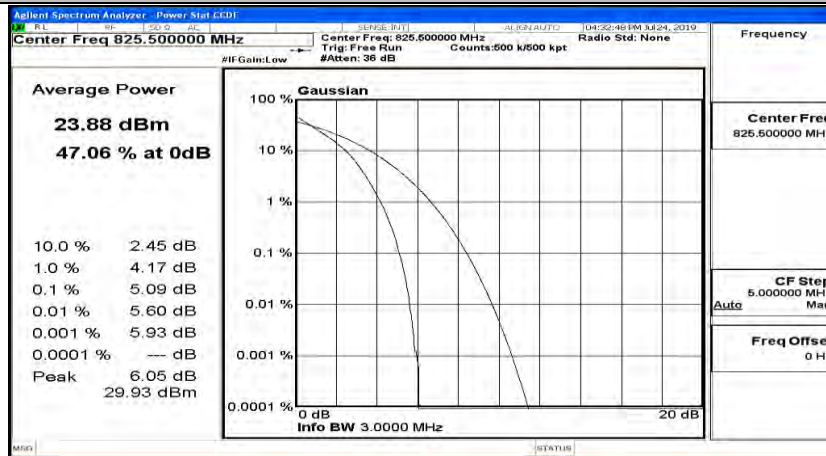
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



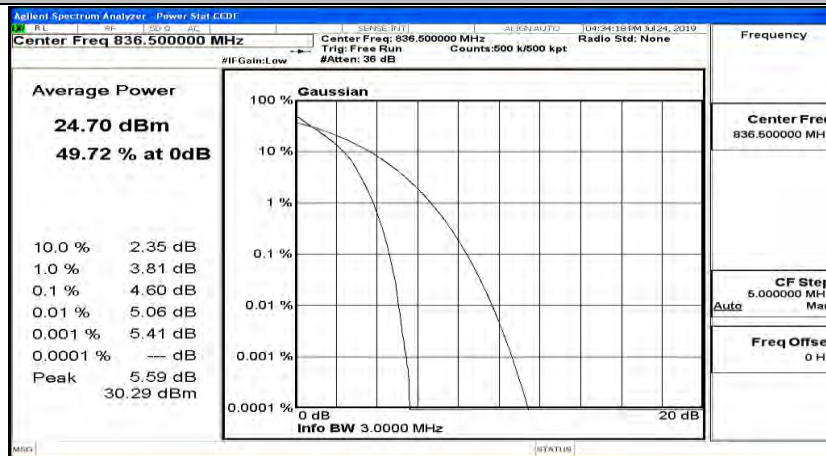
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



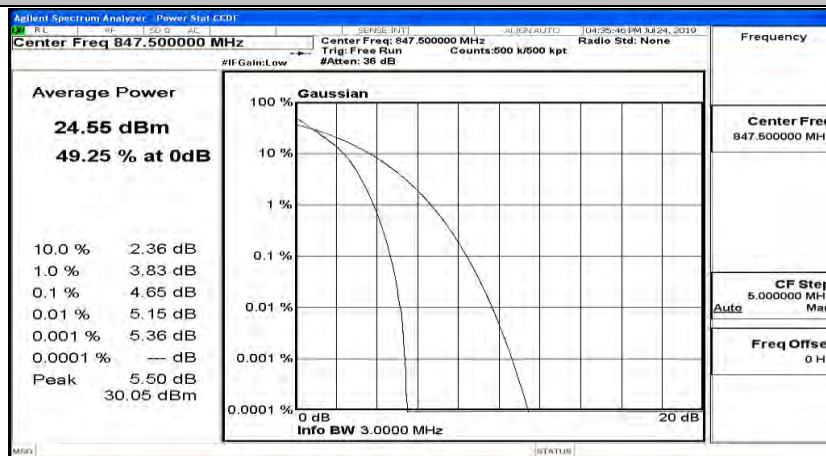
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



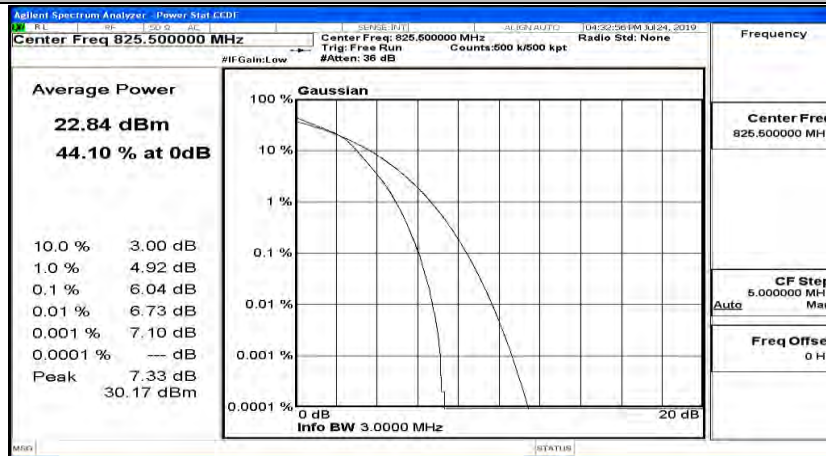
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



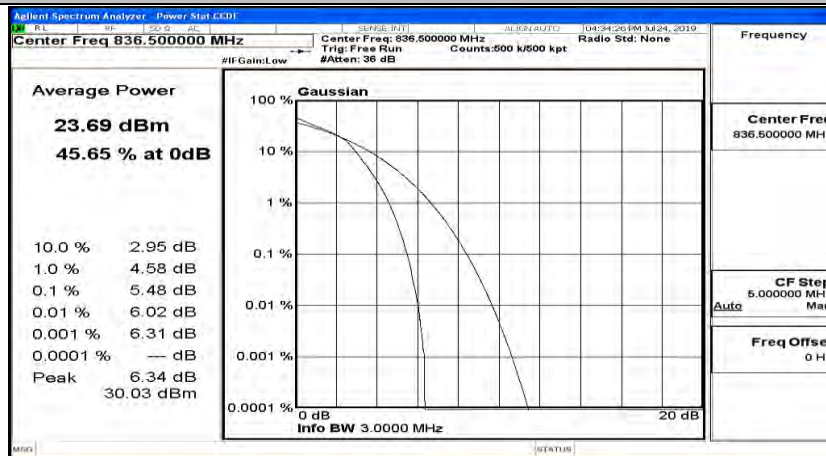
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



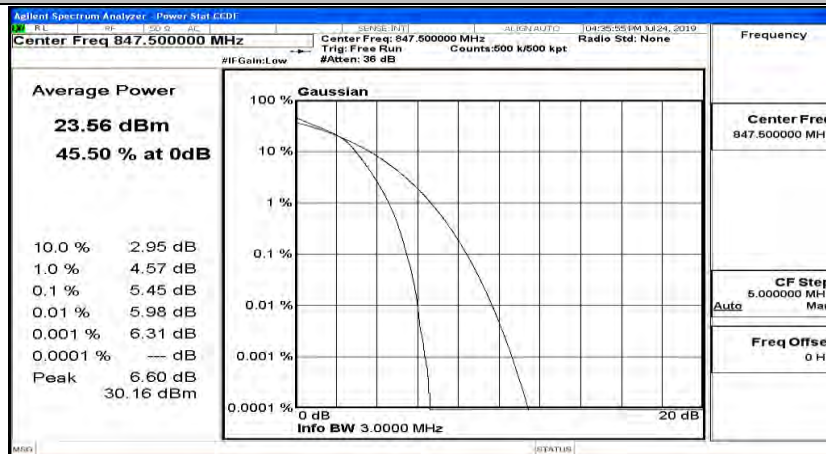
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



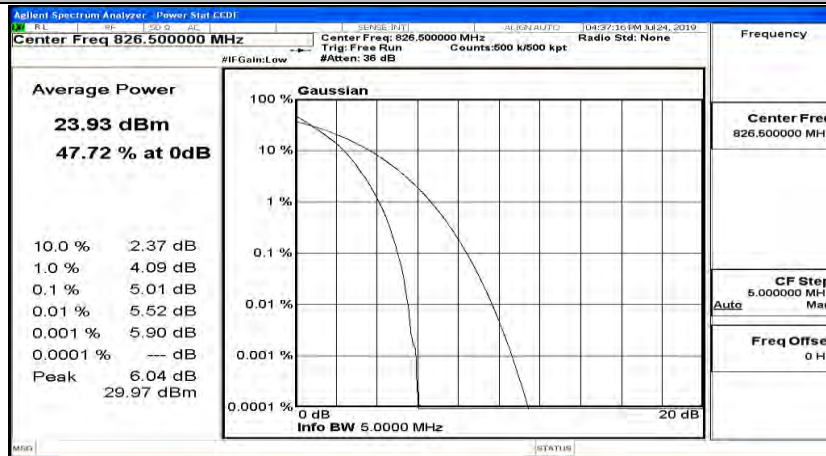
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



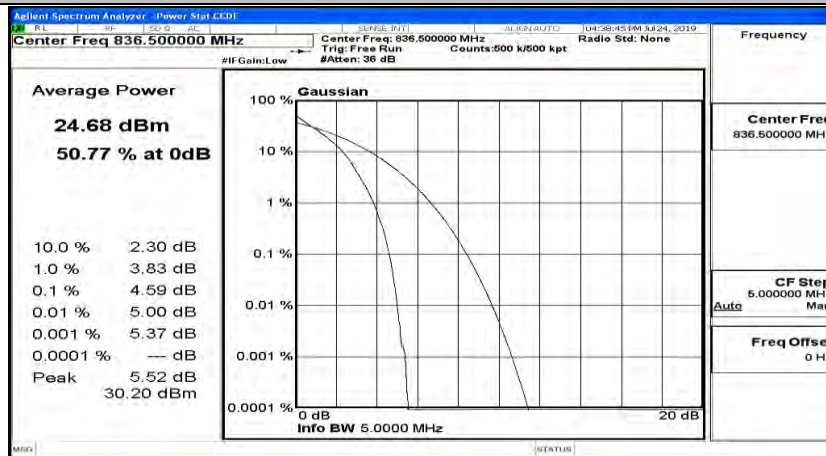
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



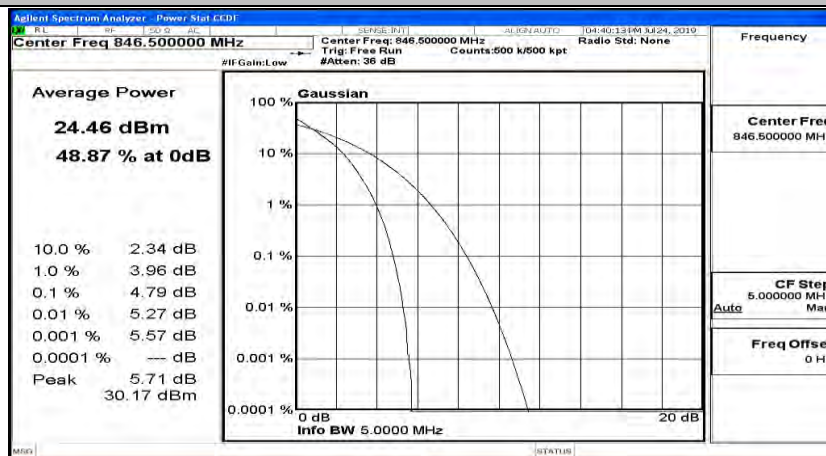
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



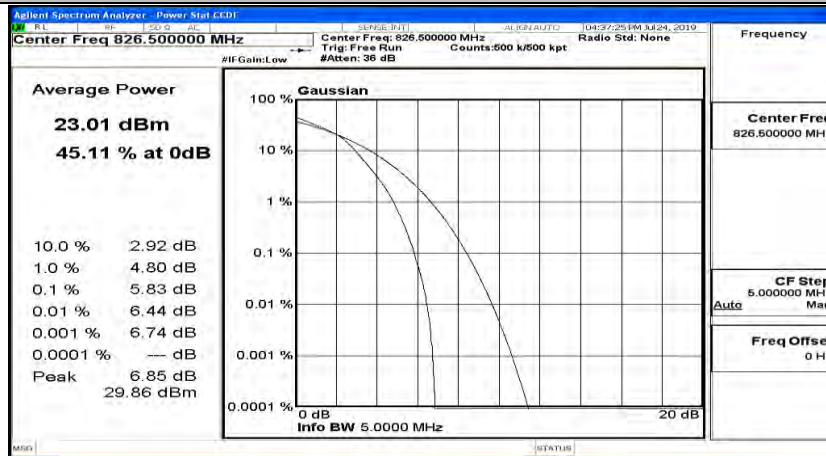
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



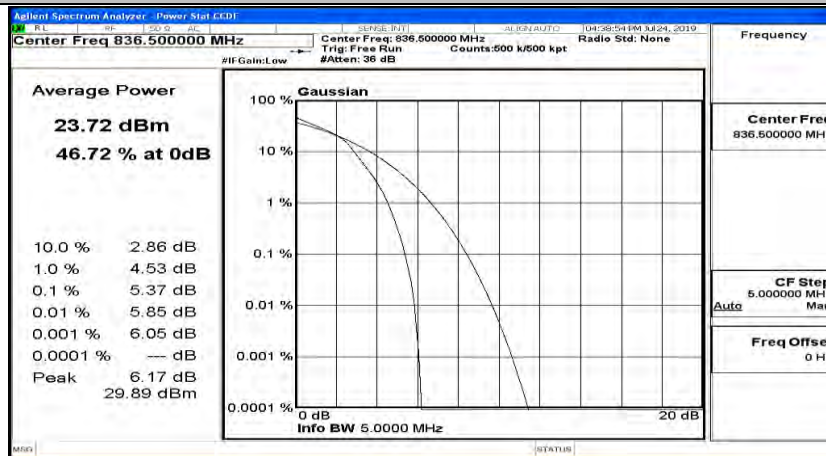
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



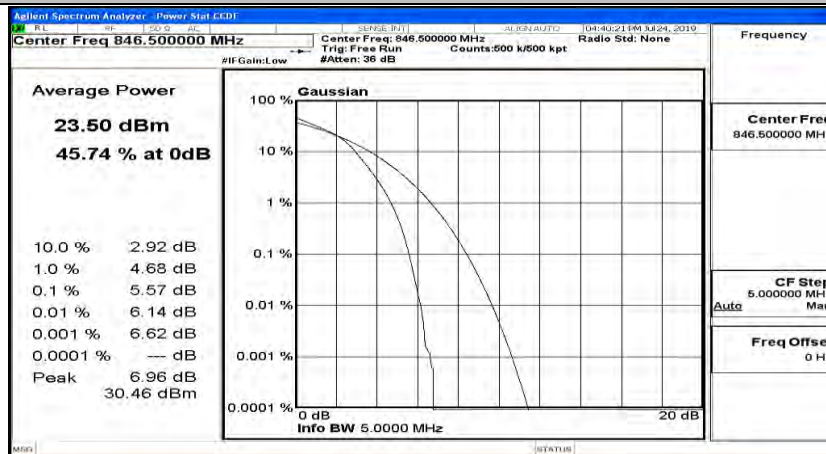
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



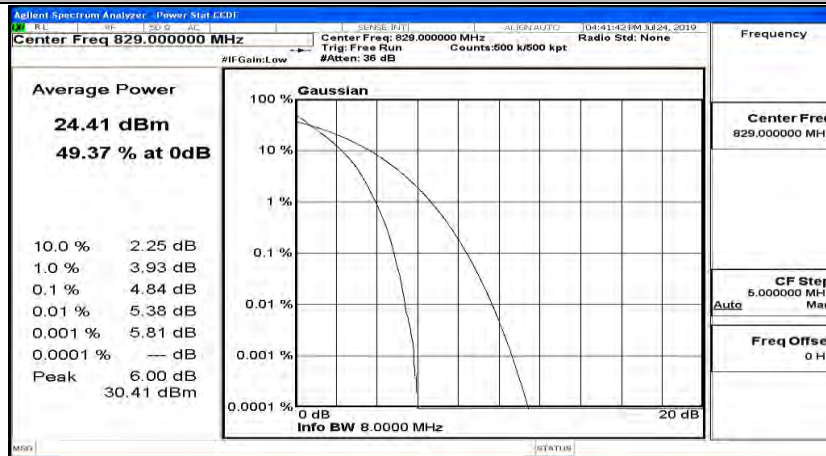
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



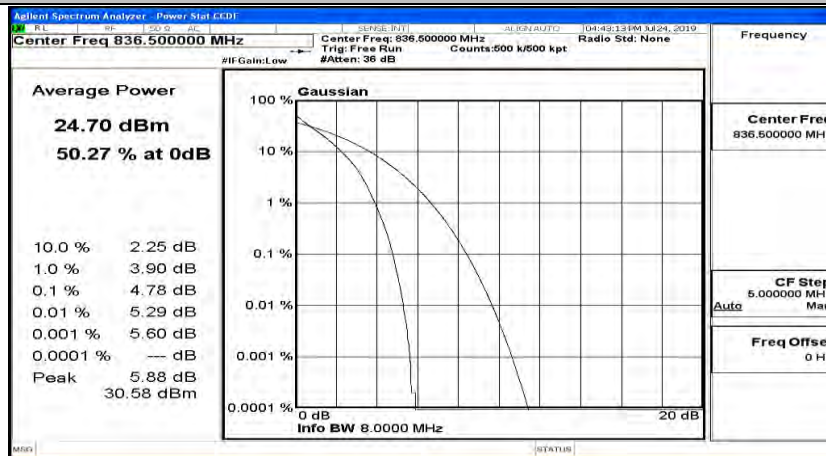
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



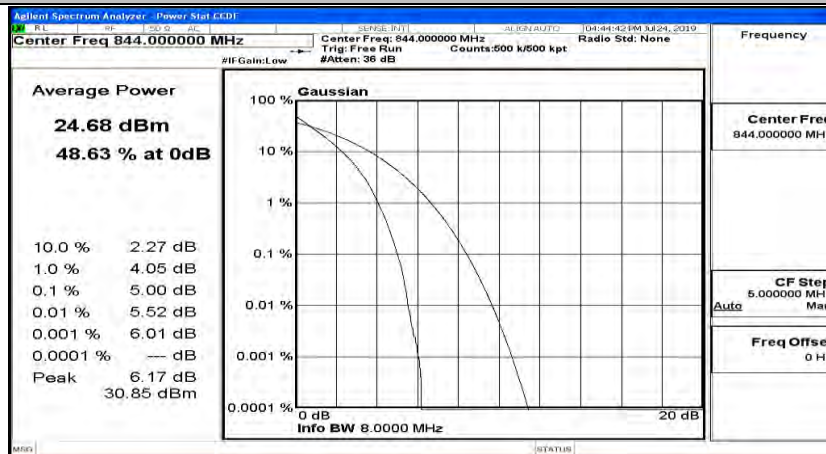
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



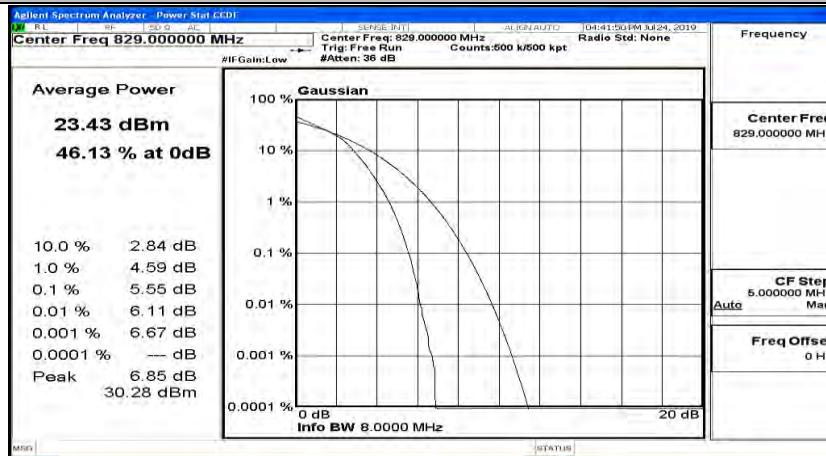
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



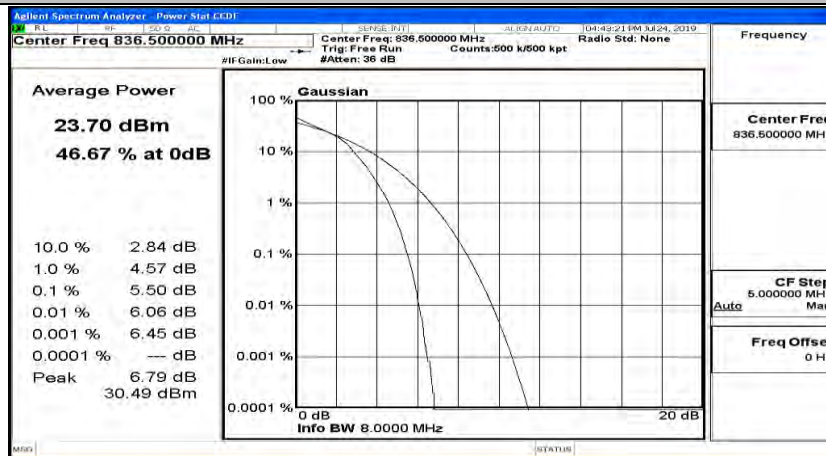
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



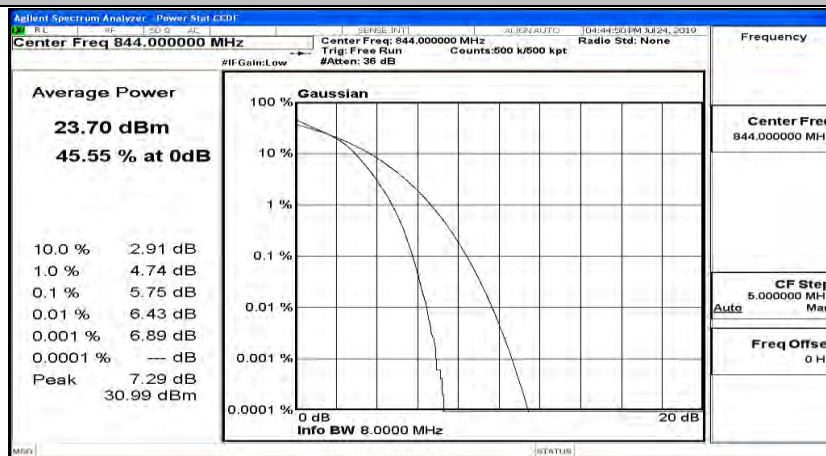
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

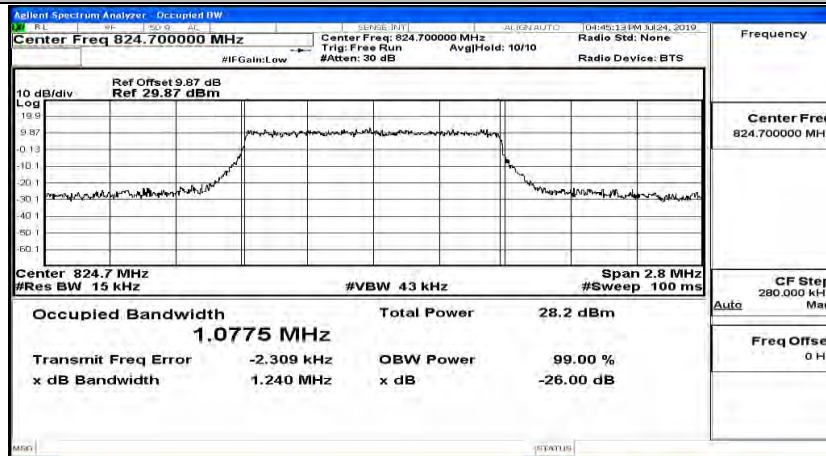
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0775	1.240	PASS
	MCH	1.0742	1.252	PASS
	HCH	1.0789	1.242	PASS
16QAM	LCH	1.0795	1.226	PASS
	MCH	1.0780	1.216	PASS
	HCH	1.0755	1.247	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6798	2.836	PASS
	MCH	2.6825	2.838	PASS
	HCH	2.6829	2.840	PASS
16QAM	LCH	2.6796	2.816	PASS
	MCH	2.6763	2.831	PASS
	HCH	2.6823	2.844	PASS

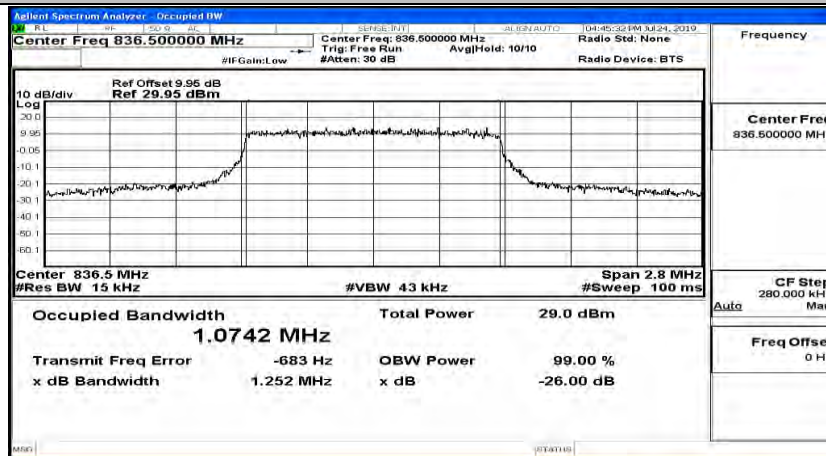
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4837	4.728	PASS
	MCH	4.4736	4.742	PASS
	HCH	4.4721	4.761	PASS
16QAM	LCH	4.4734	4.735	PASS
	MCH	4.4641	4.762	PASS
	HCH	4.4832	4.756	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9399	9.501	PASS
	MCH	8.9360	9.451	PASS
	HCH	8.9398	9.410	PASS
16QAM	LCH	8.9456	9.374	PASS
	MCH	8.9407	9.357	PASS
	HCH	8.9480	9.384	PASS

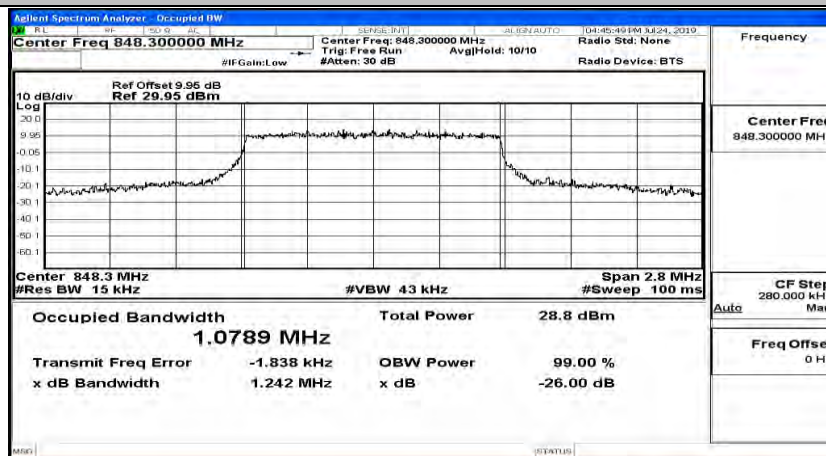
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



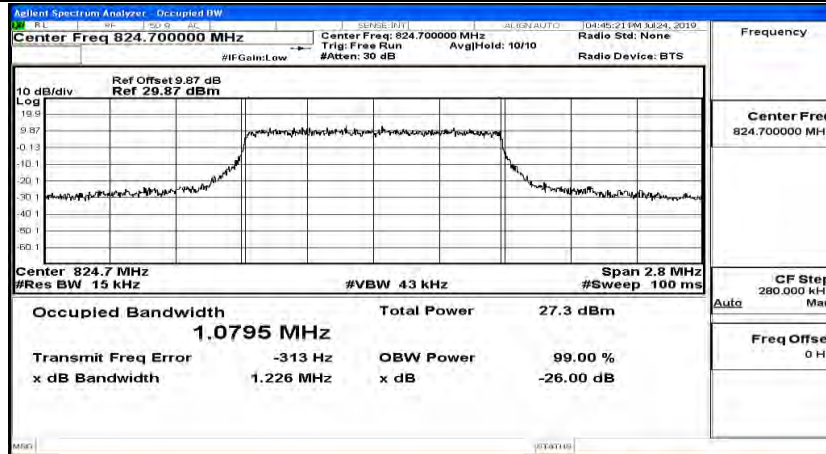
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



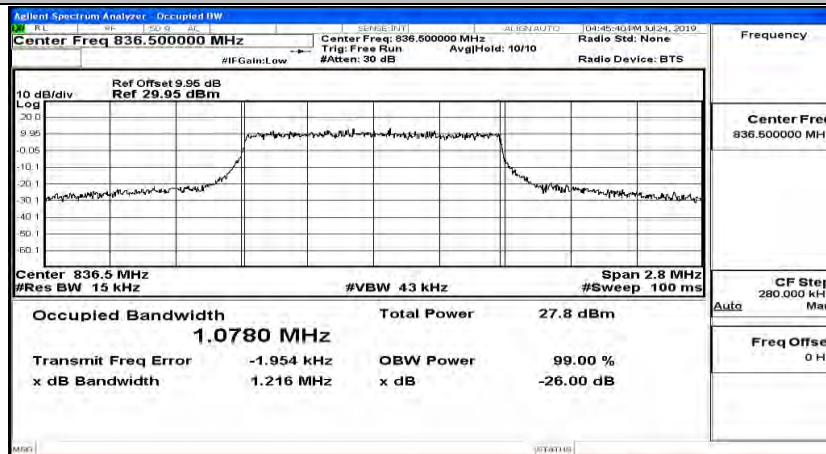
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



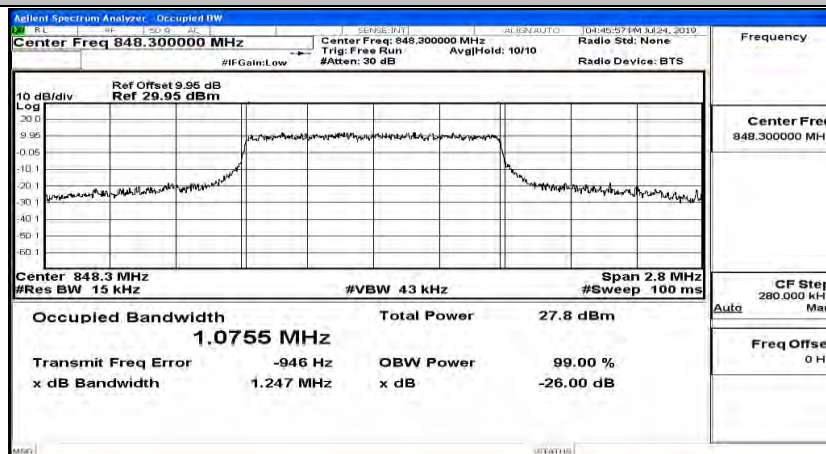
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



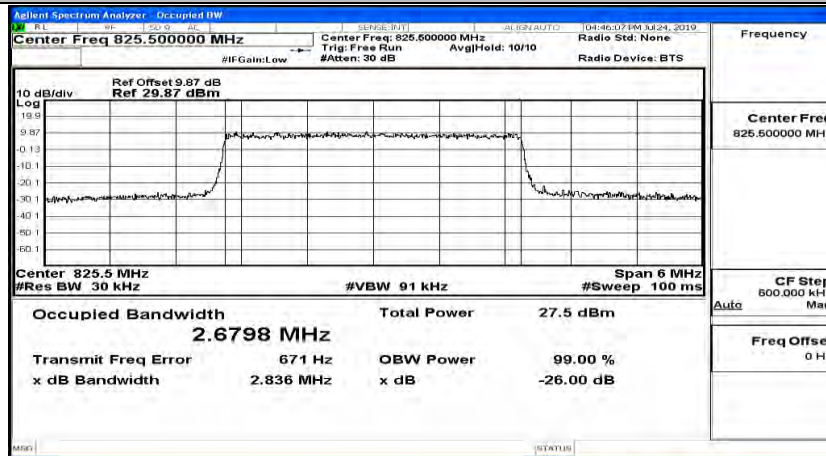
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



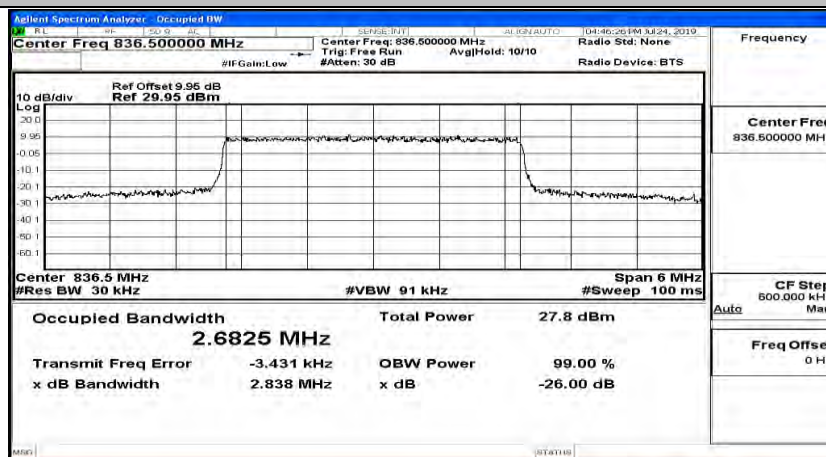
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



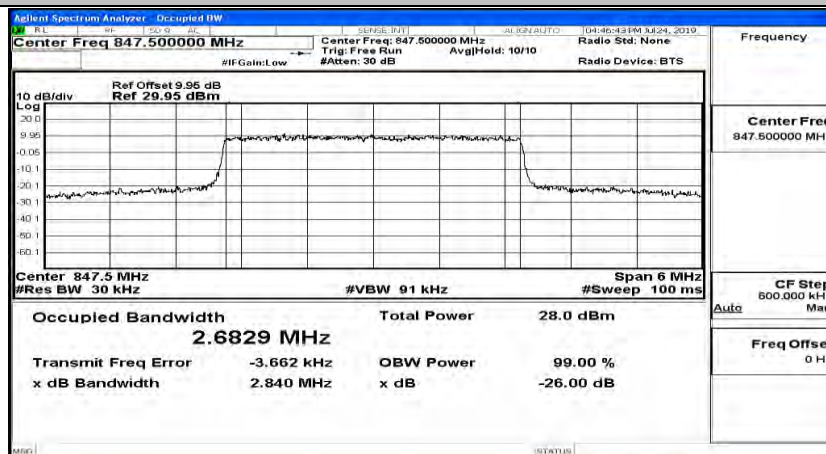
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



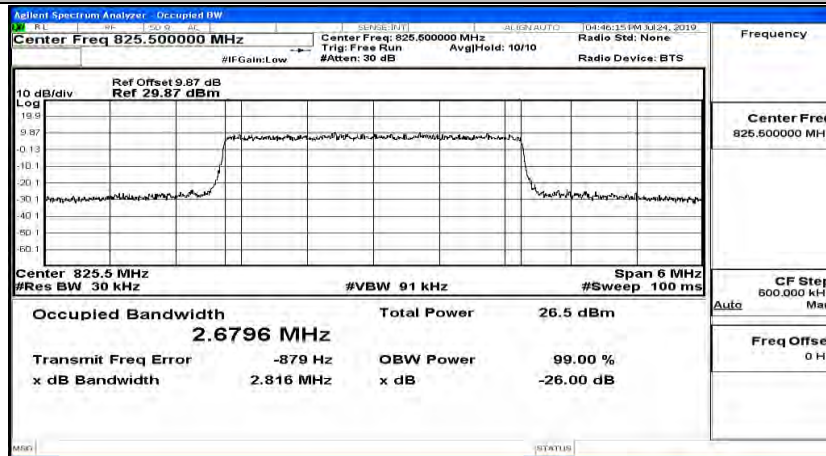
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



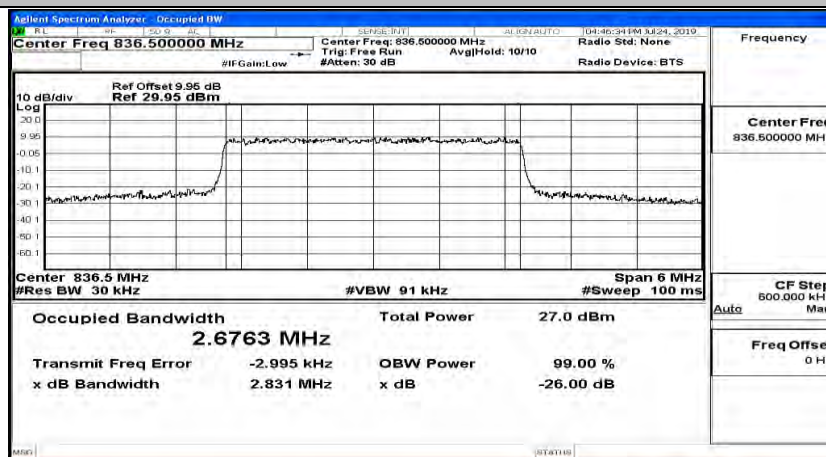
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



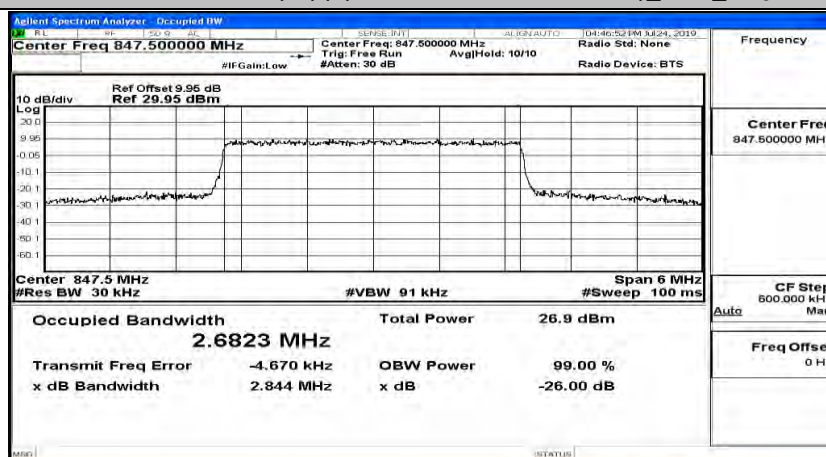
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



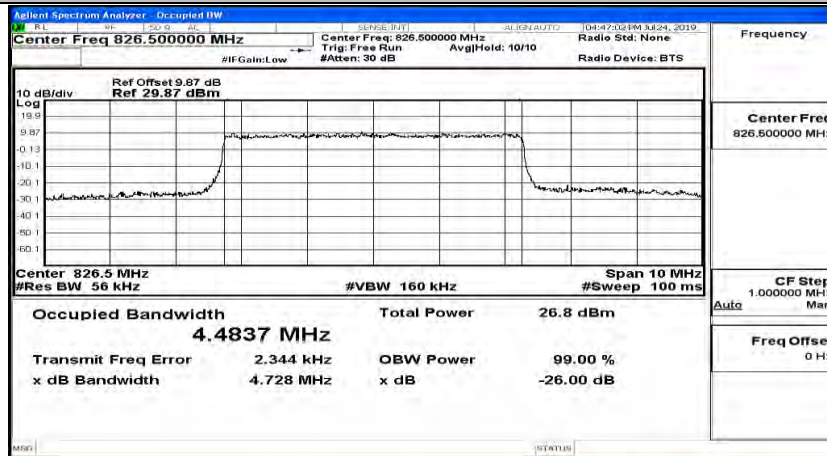
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



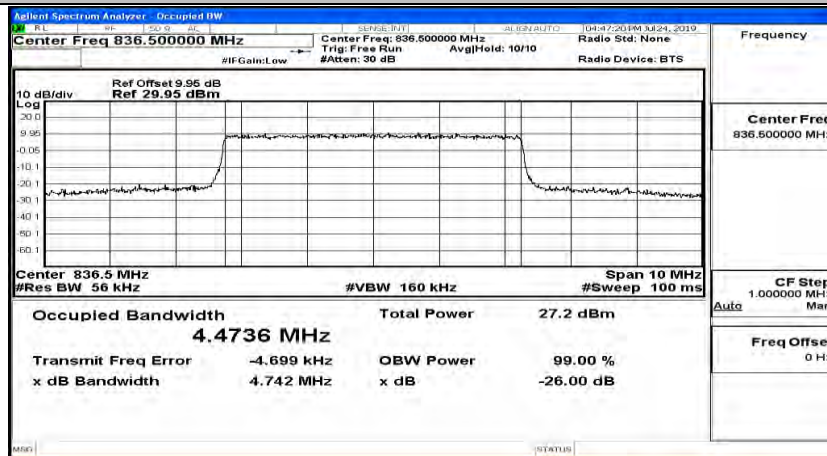
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



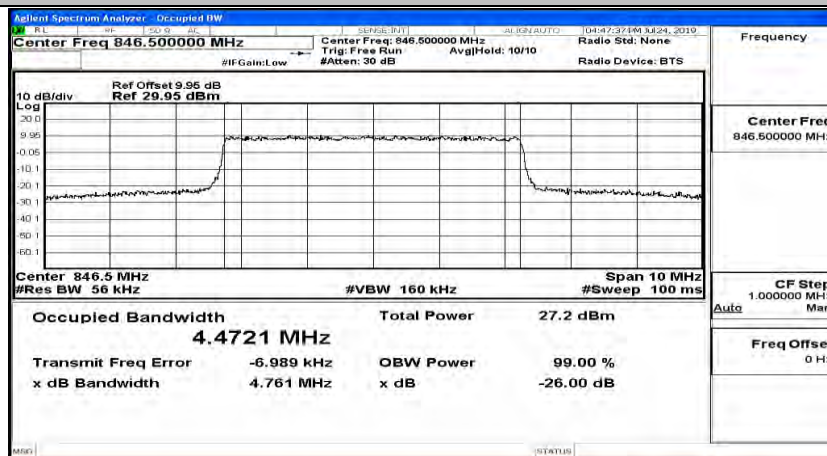
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



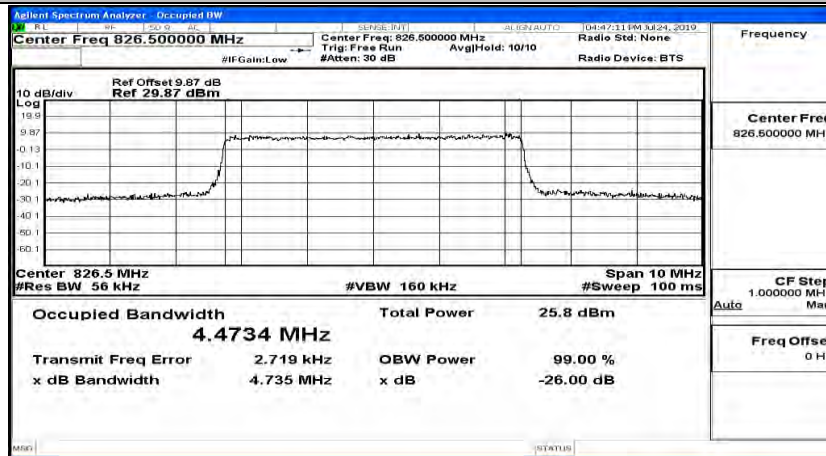
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



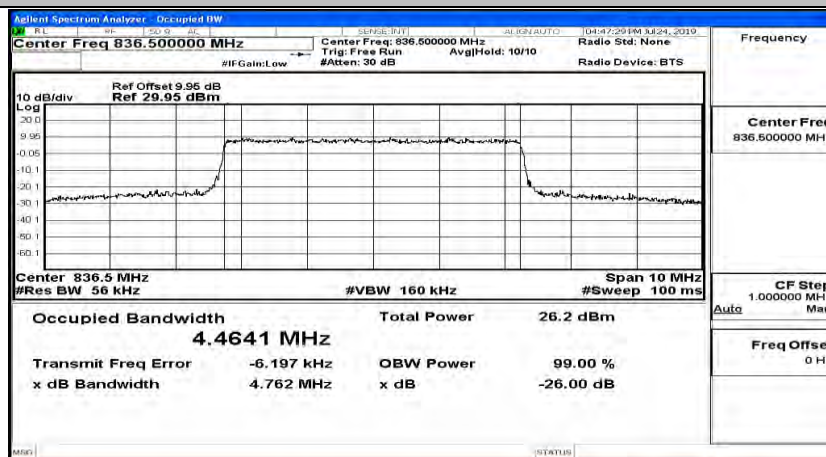
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



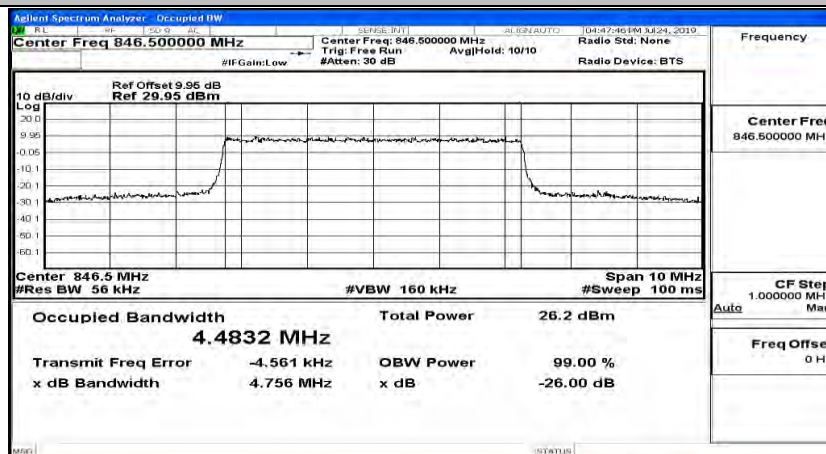
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



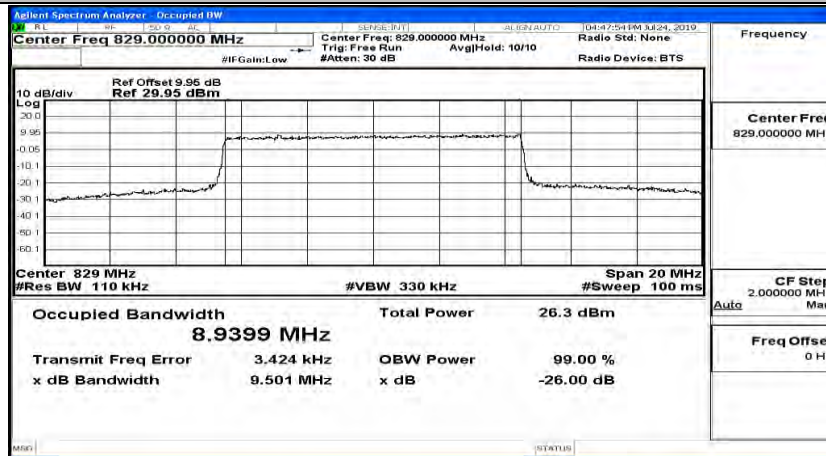
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



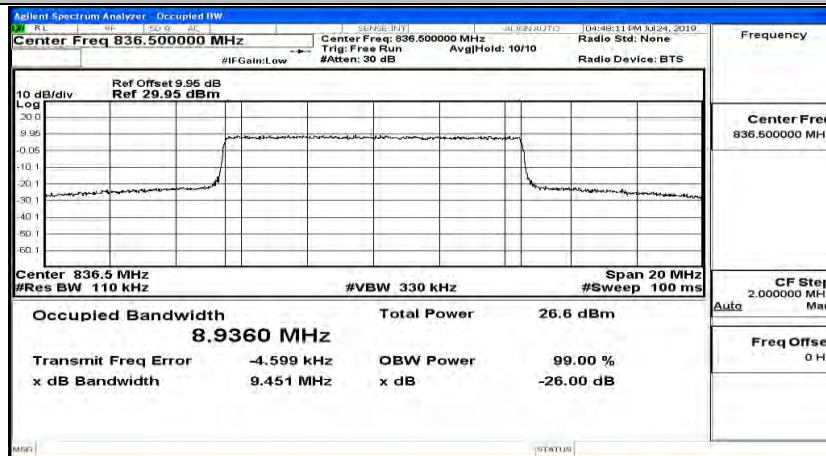
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



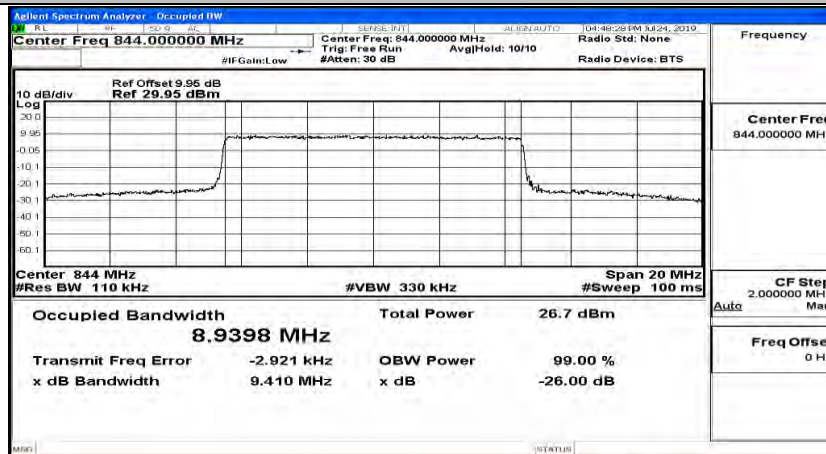
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



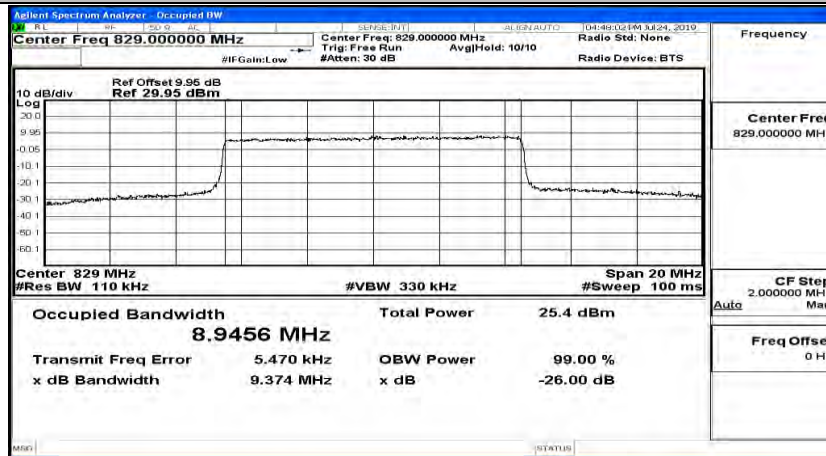
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



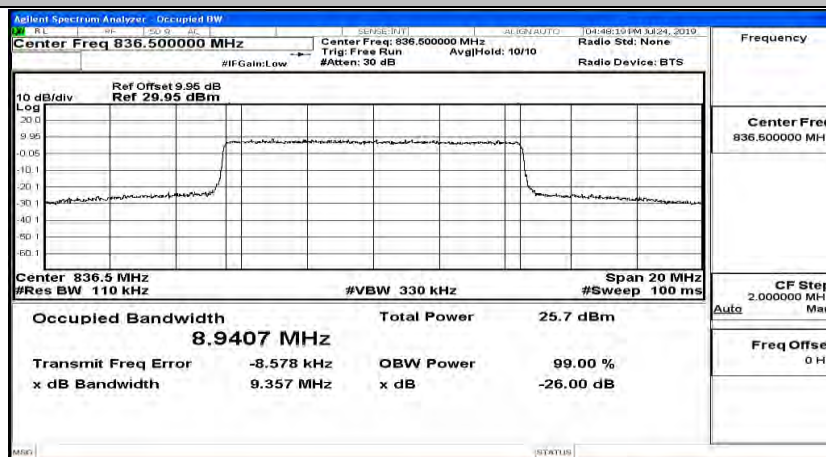
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



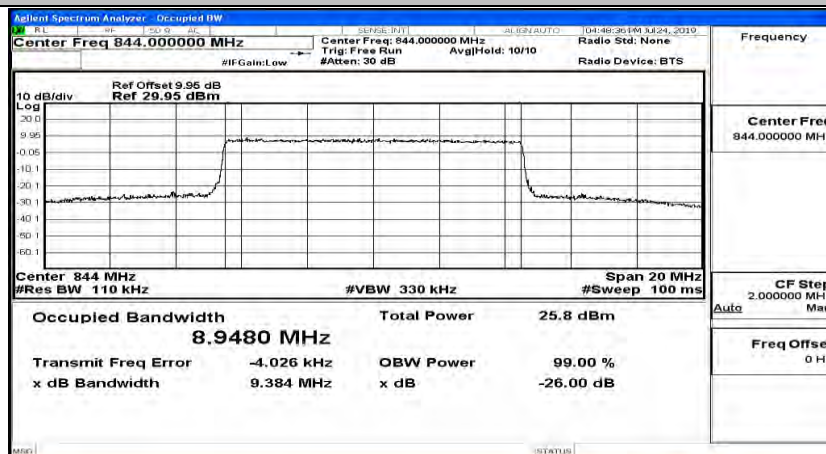
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

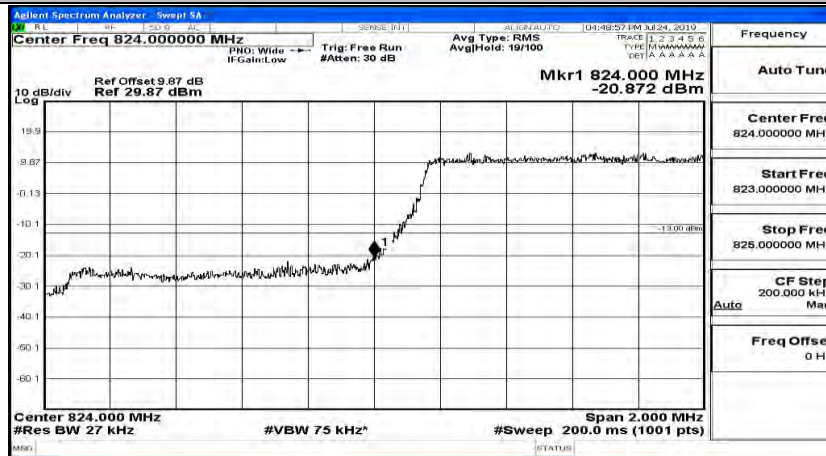


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

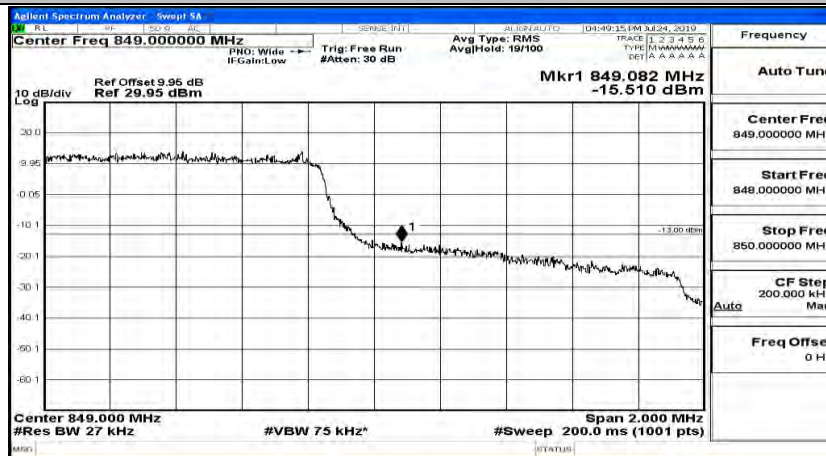


A.4 Band Edge

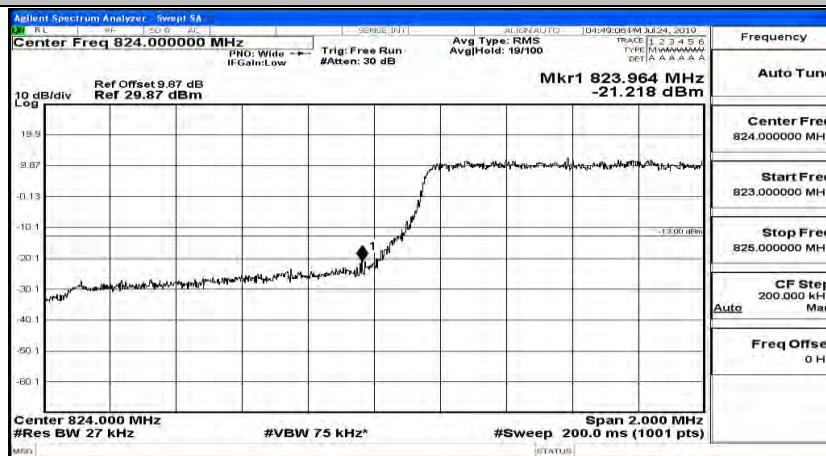
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



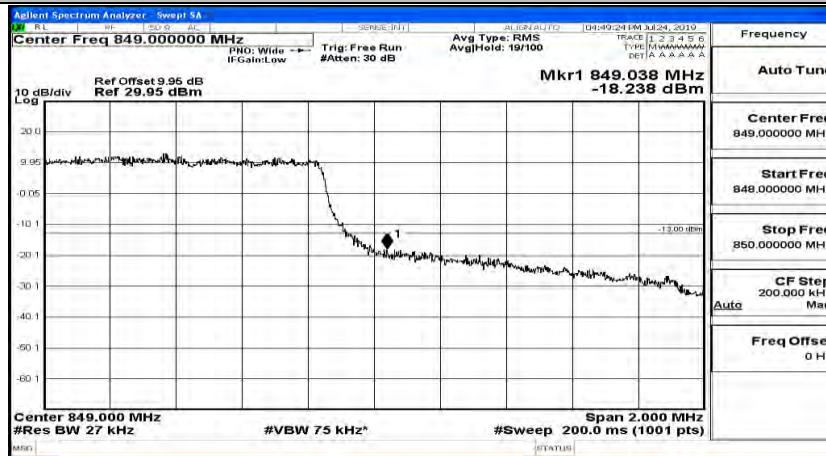
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



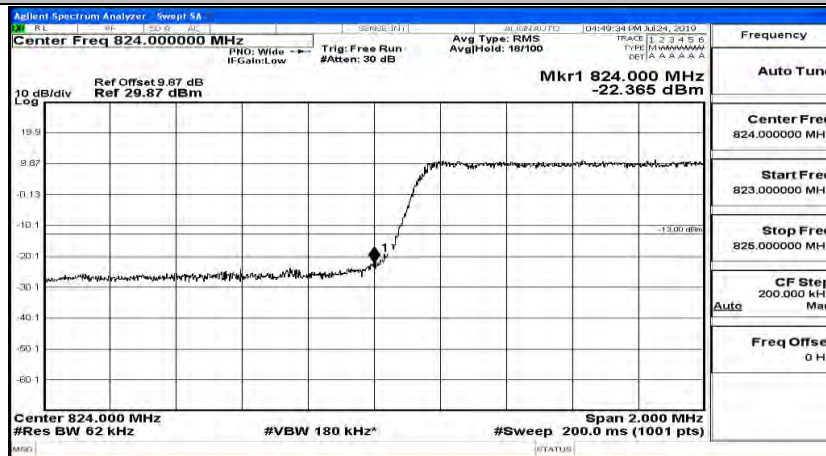
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



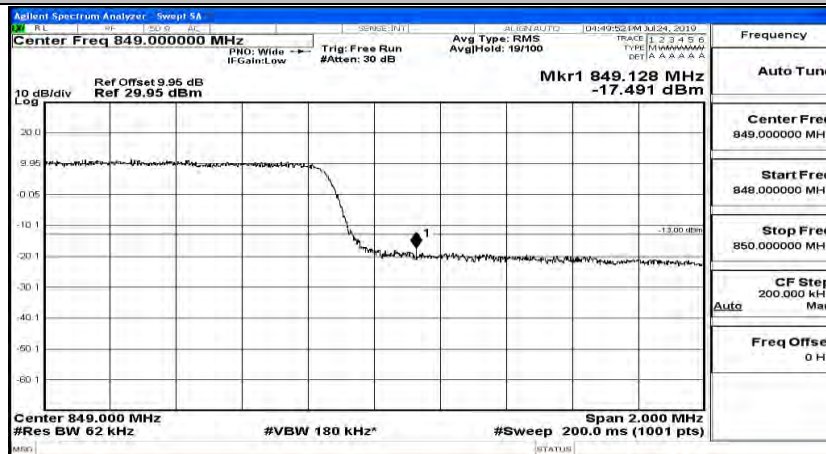
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



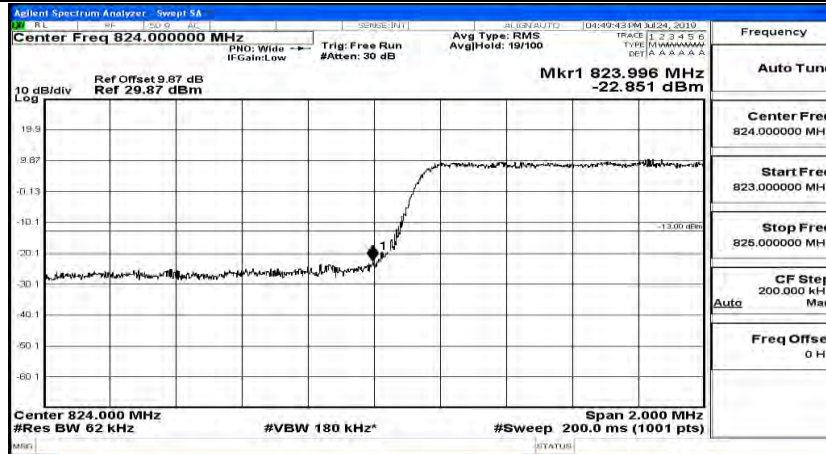
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



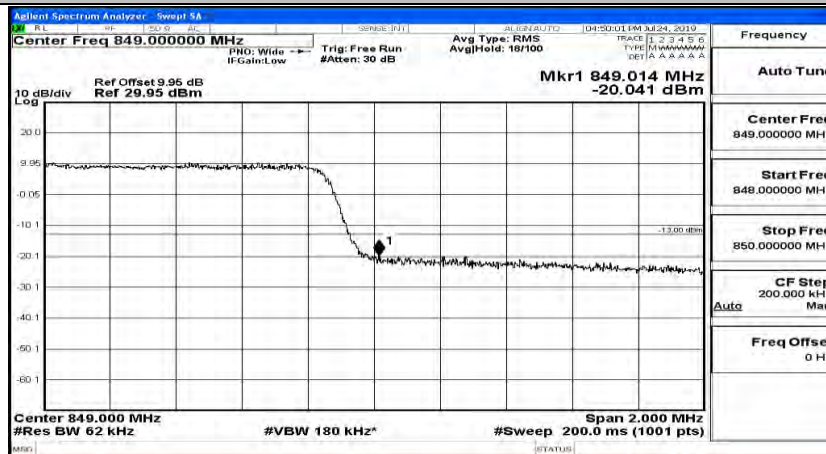
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



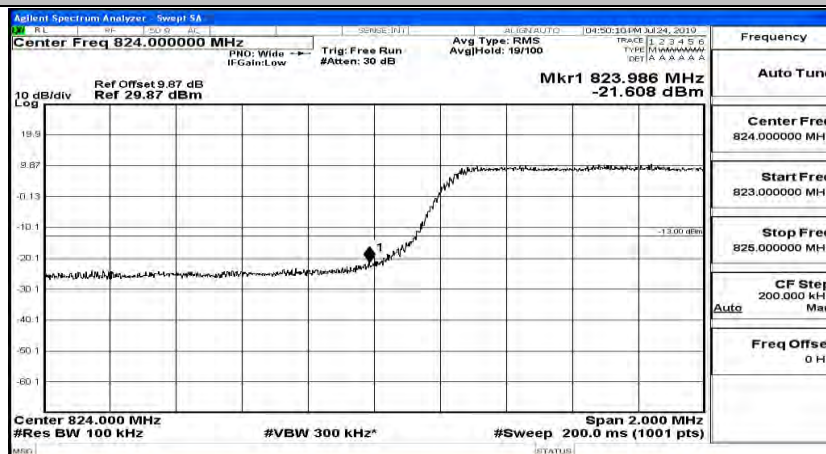
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



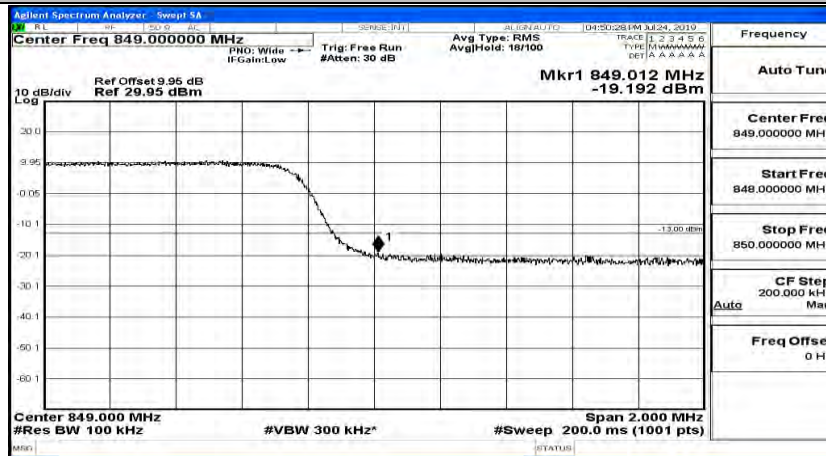
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



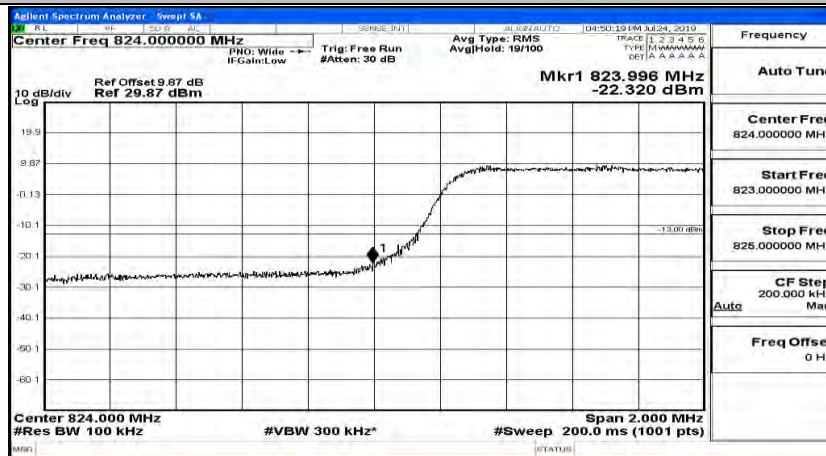
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



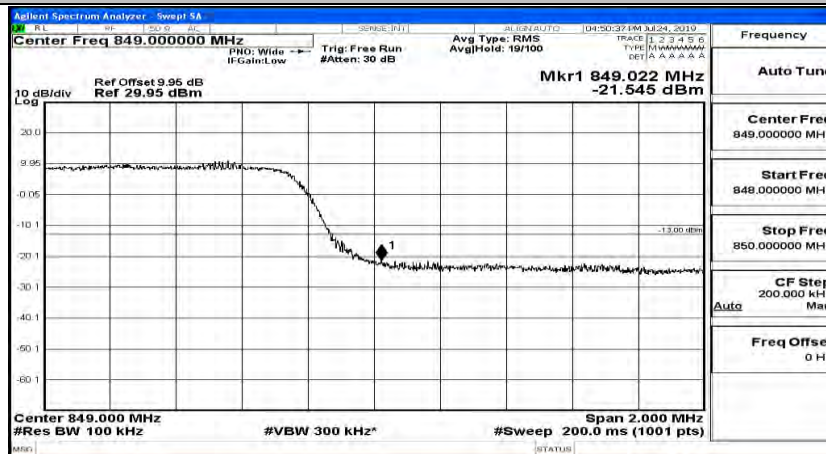
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



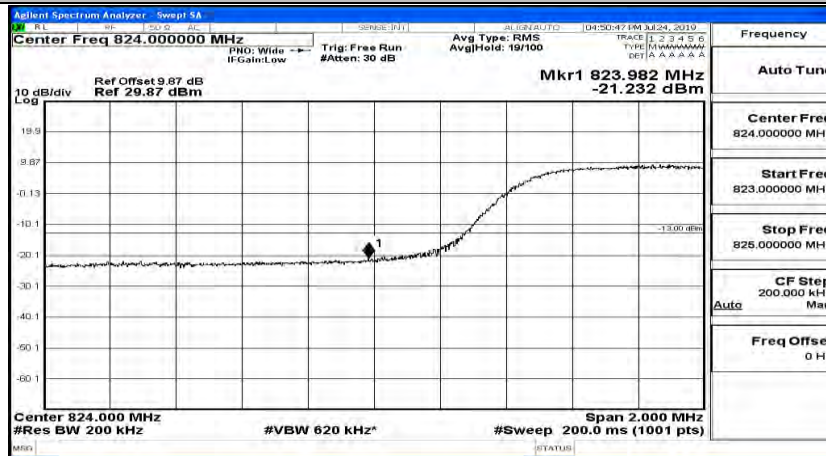
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



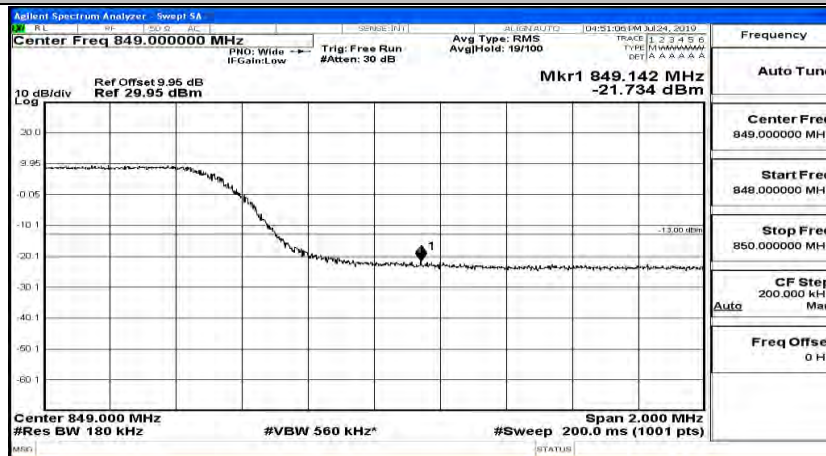
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



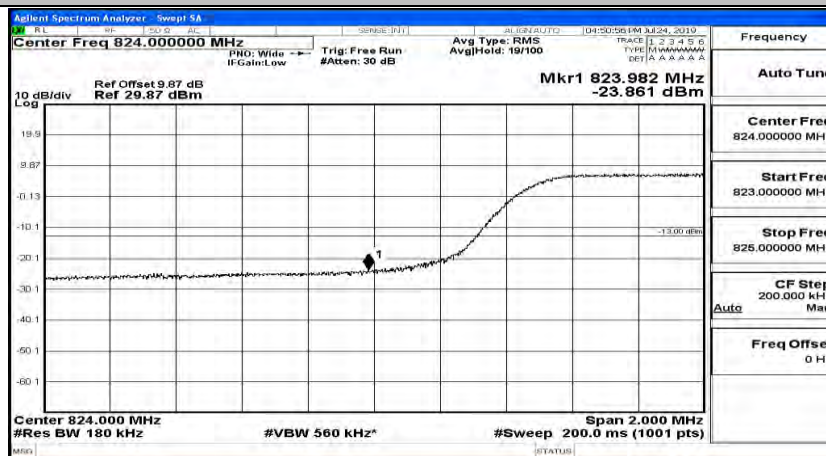
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



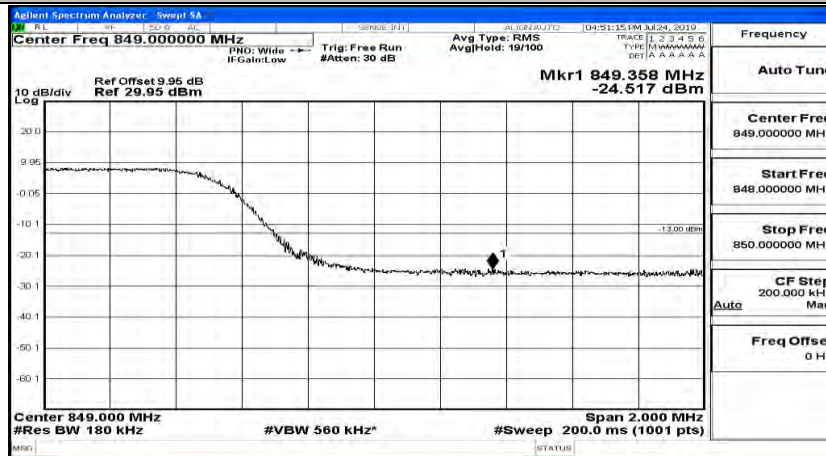
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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

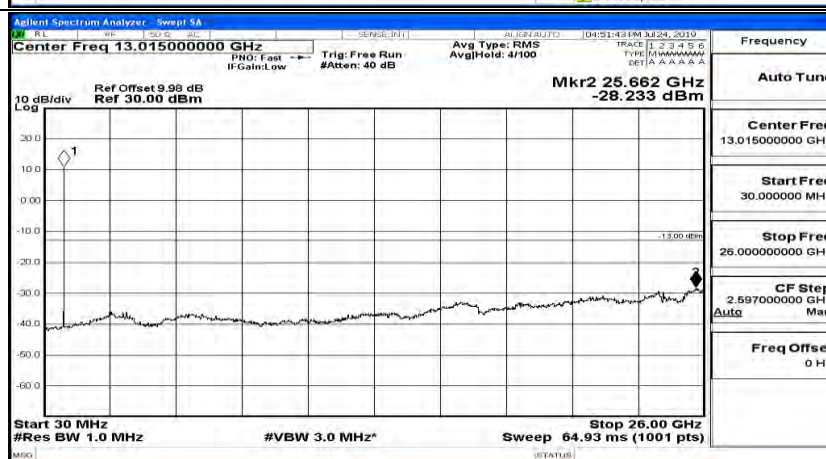
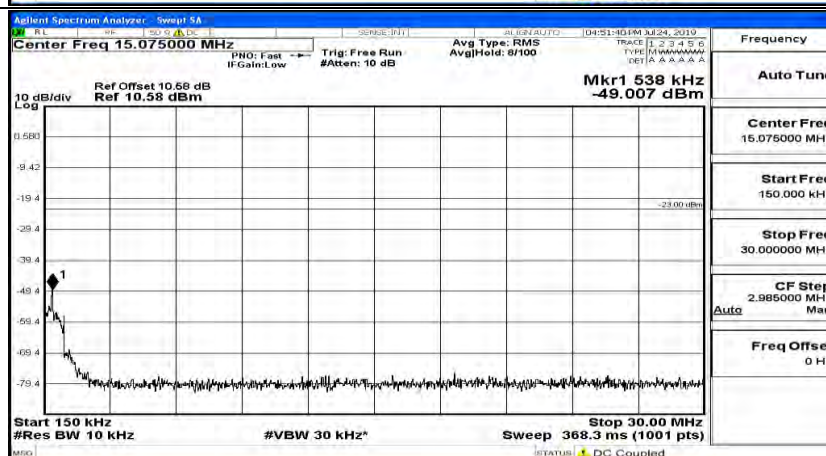
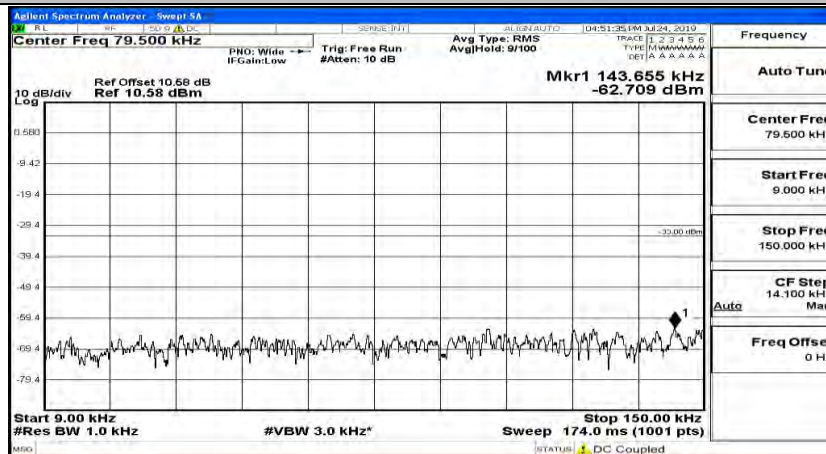


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

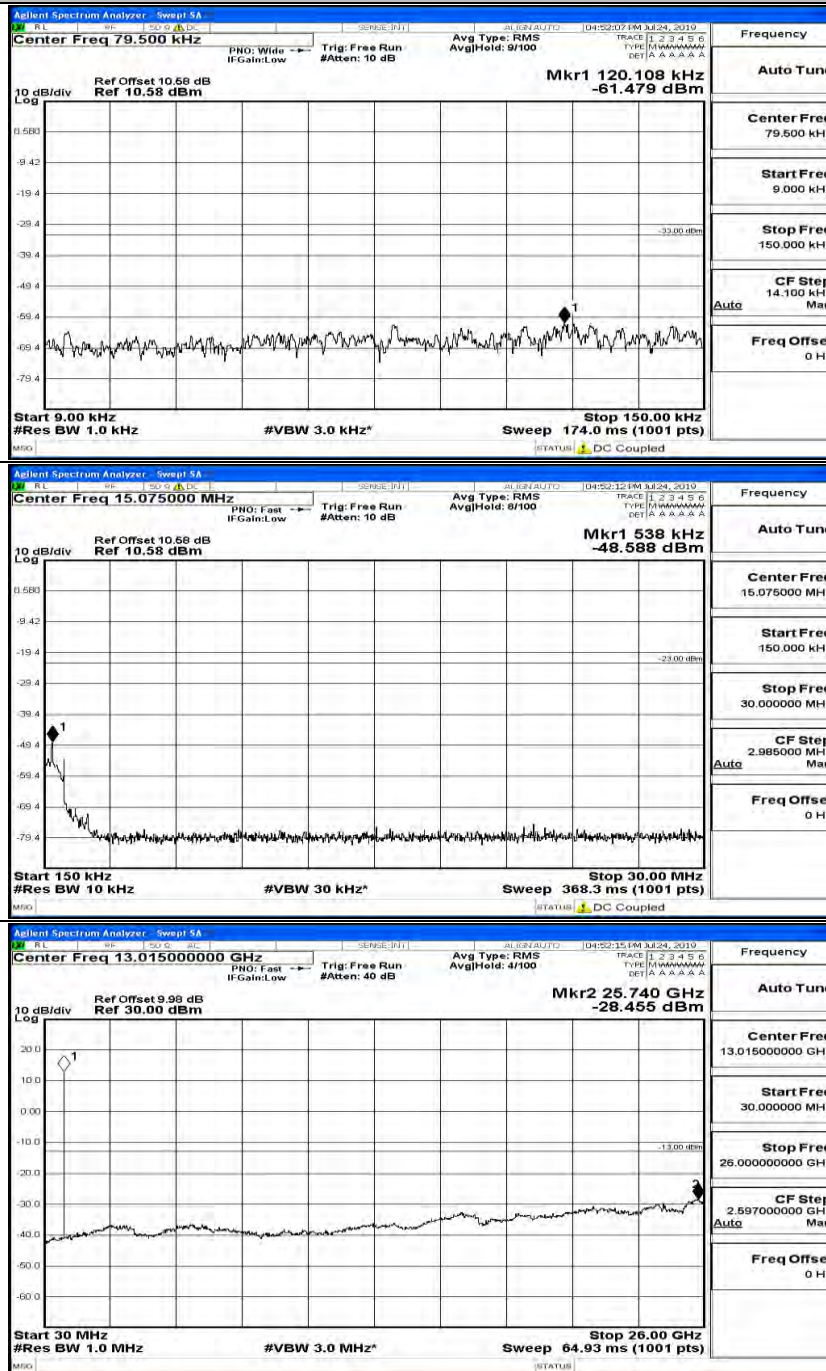


A.5 Conducted Spurious Emission

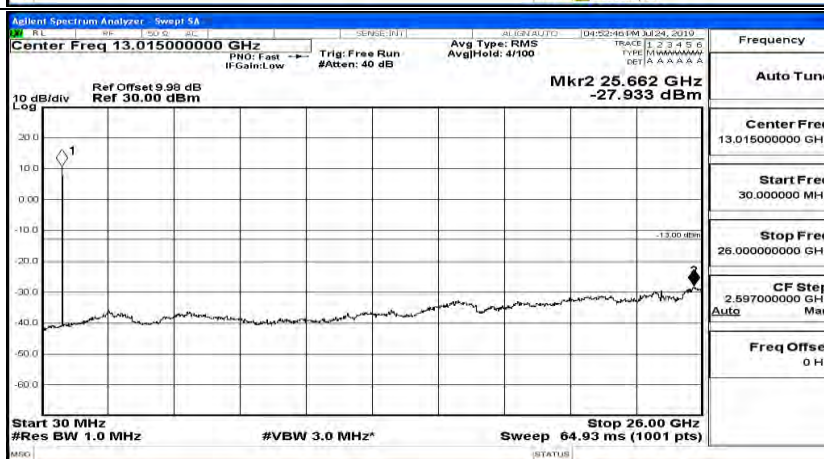
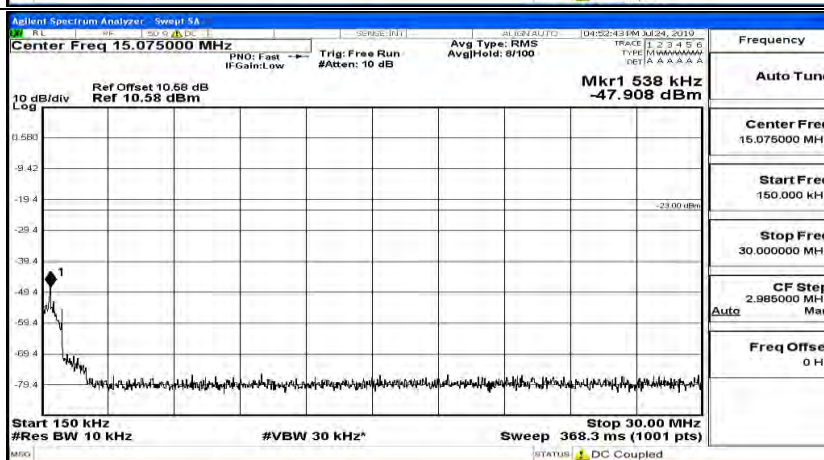
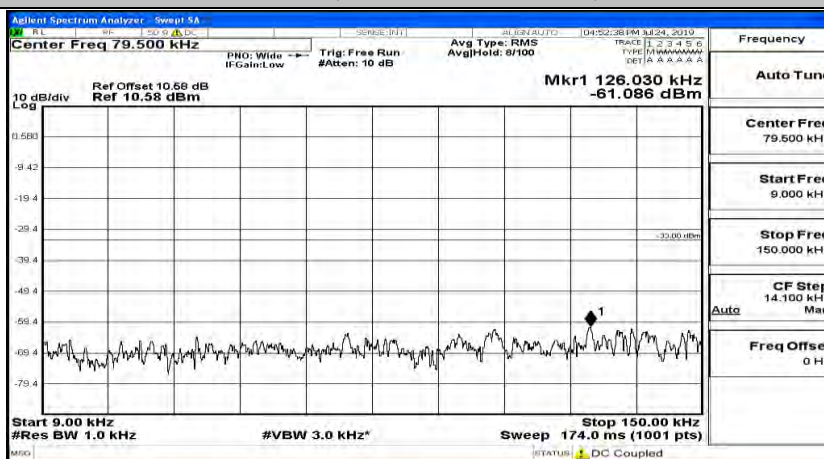
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



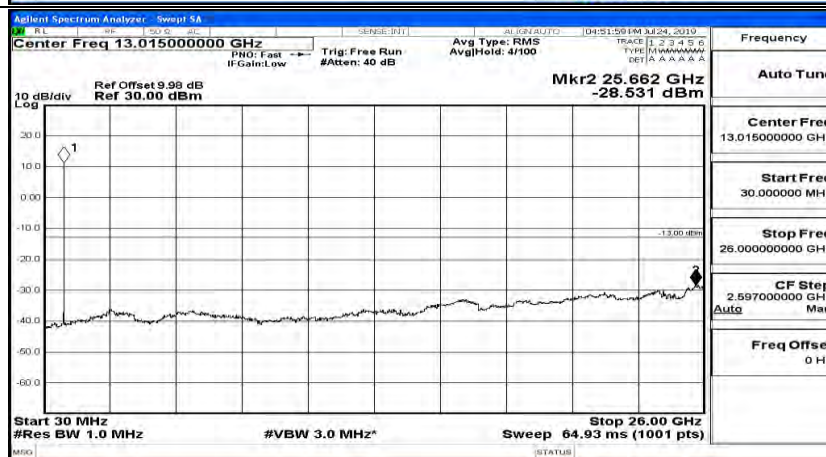
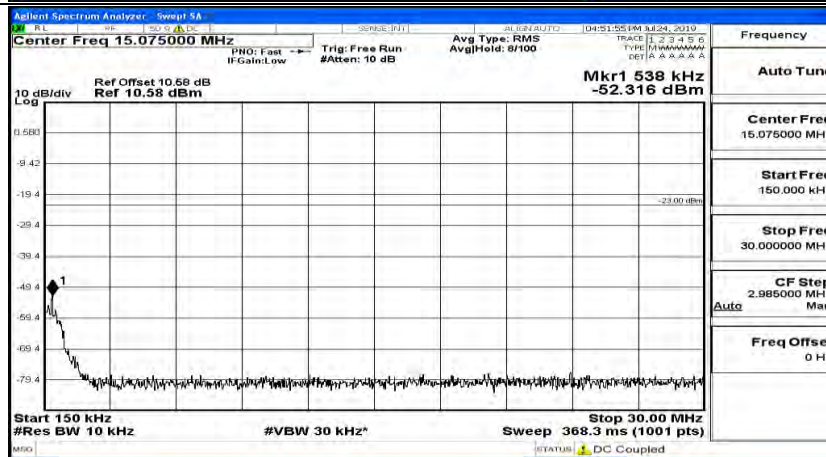
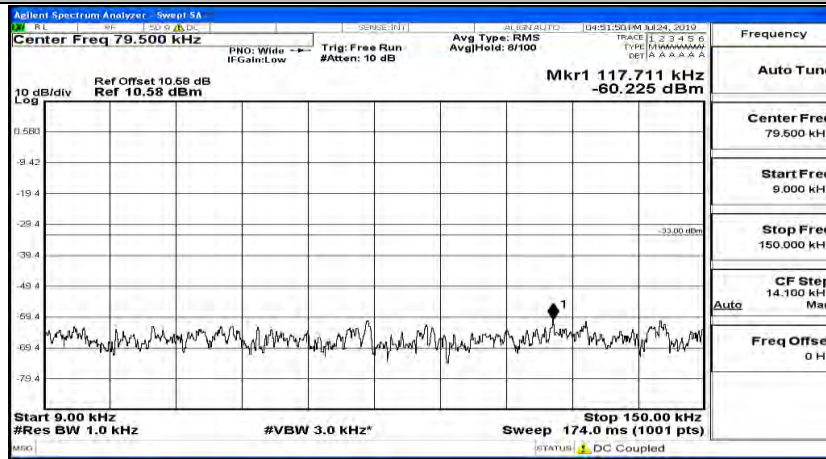
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



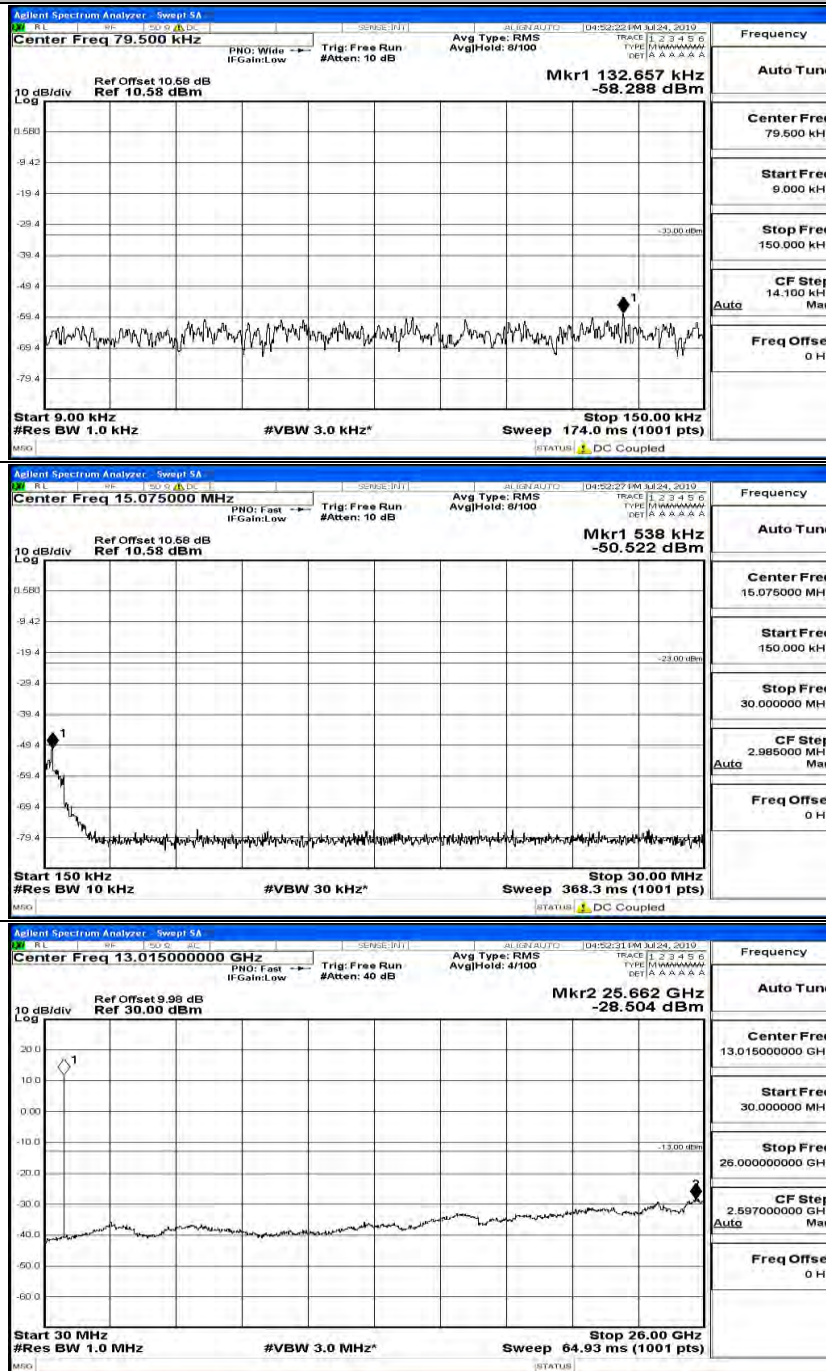
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



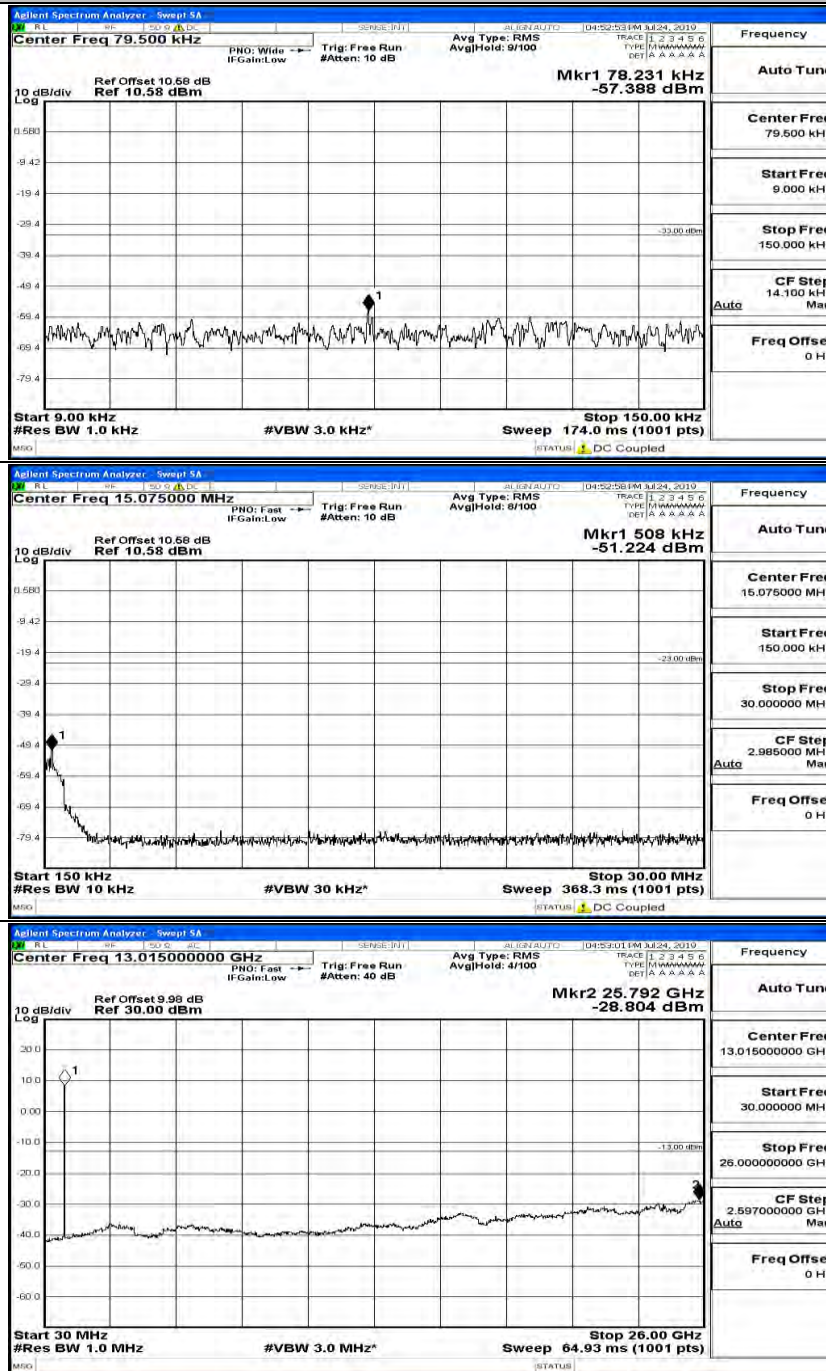
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



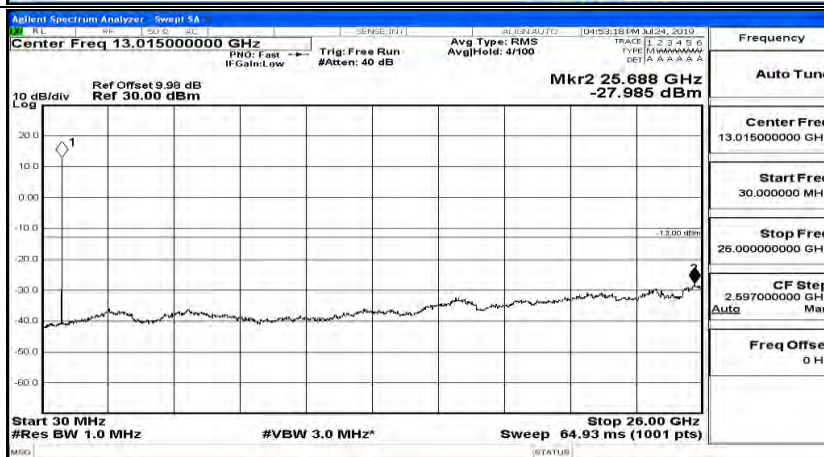
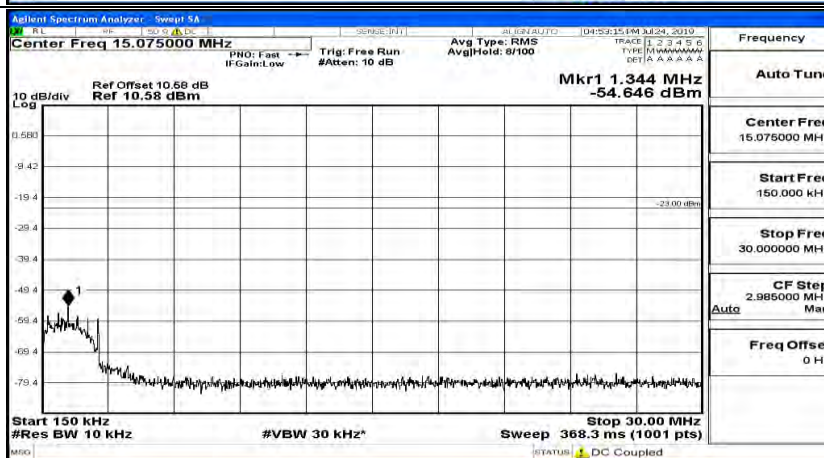
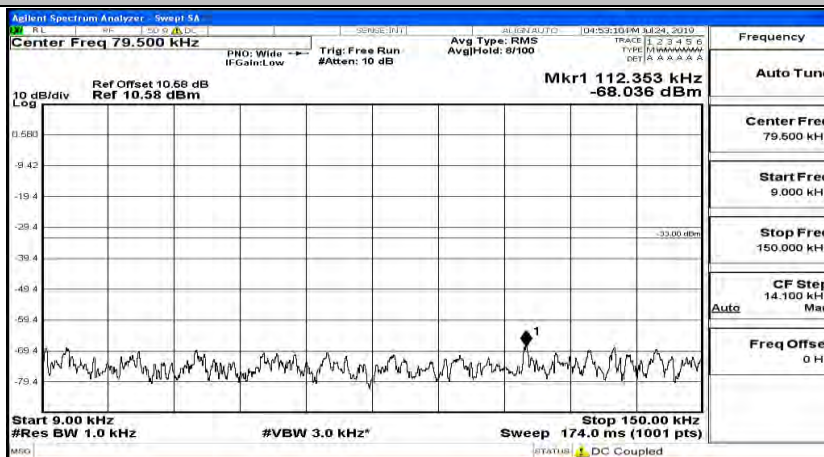
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



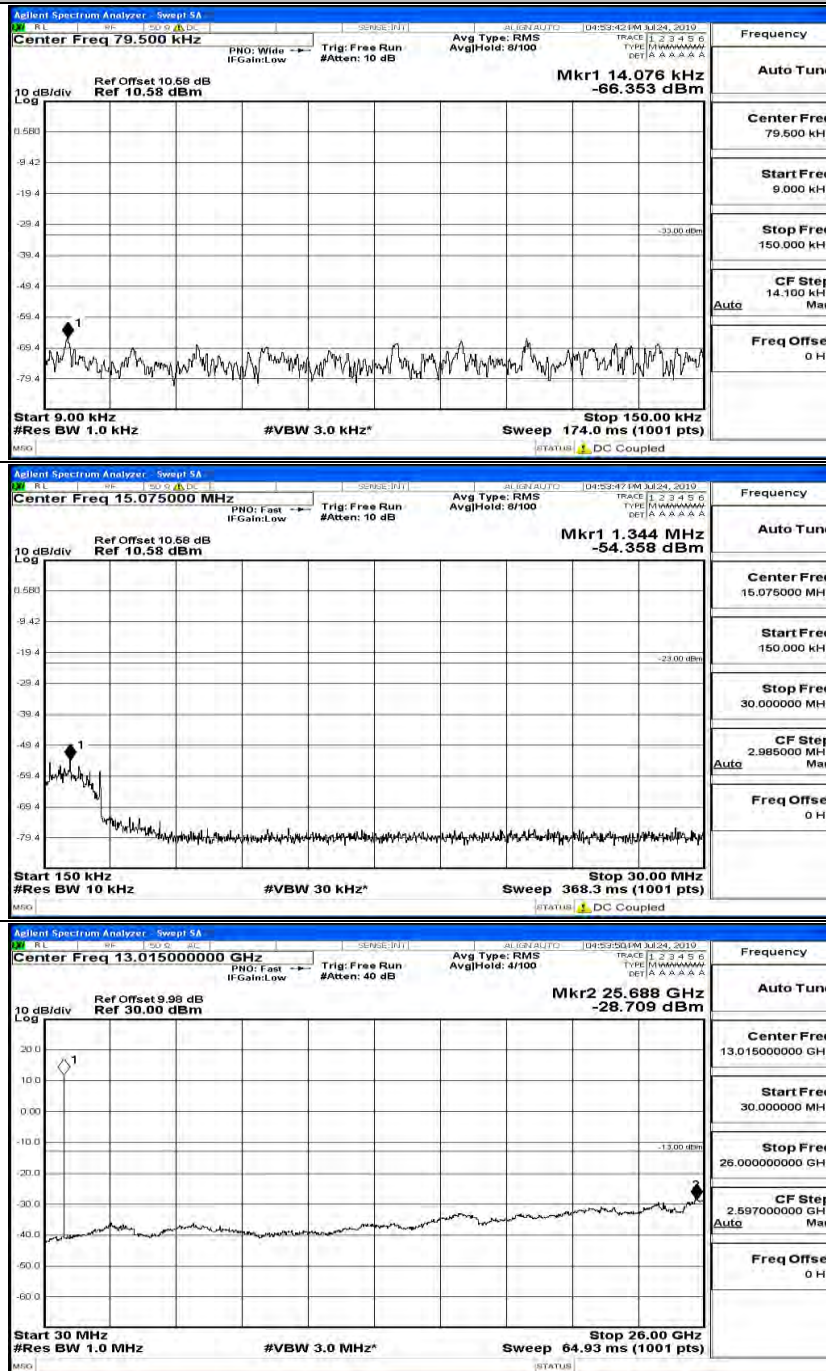
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



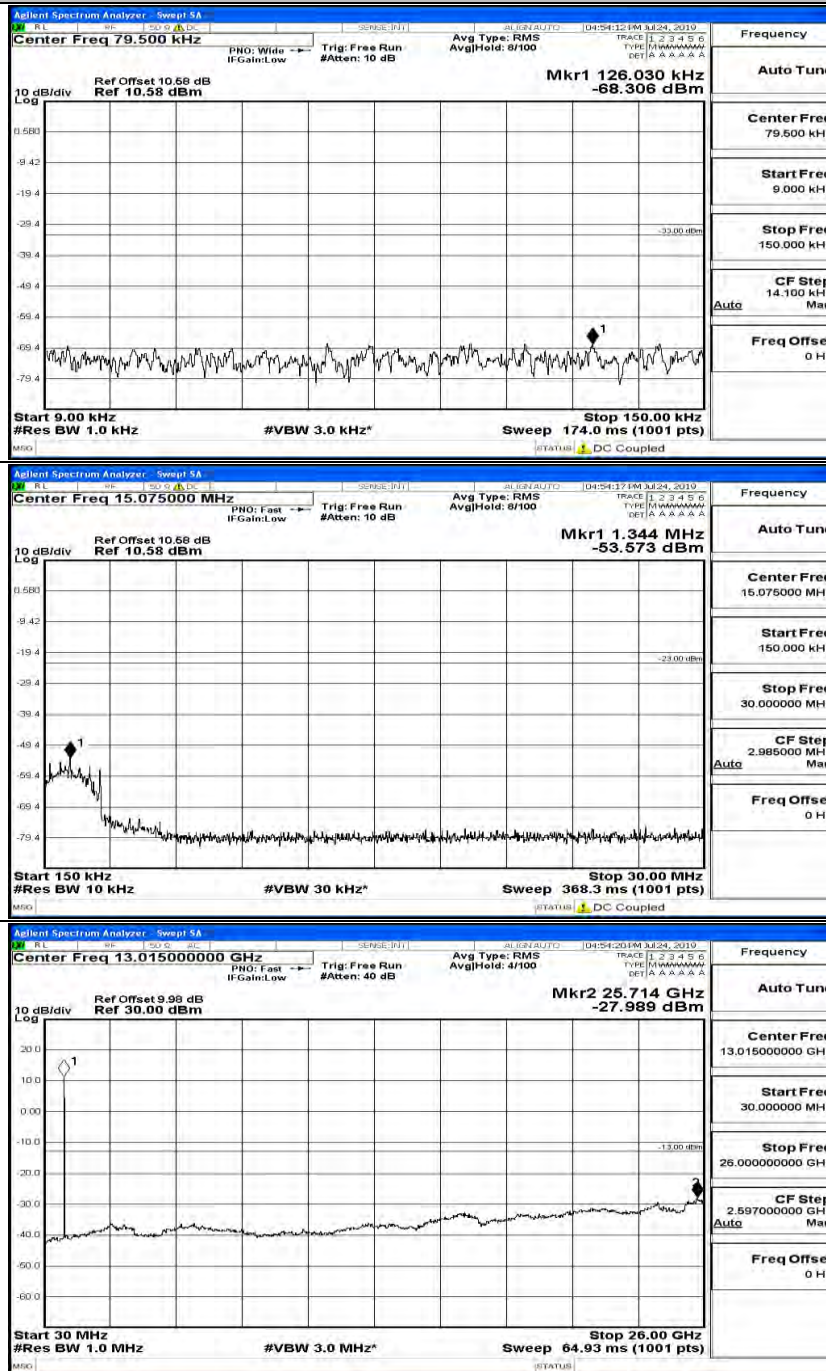
CSE Test Graph(s) (Channel Bandwidth: 3 MHz) LCH QPSK



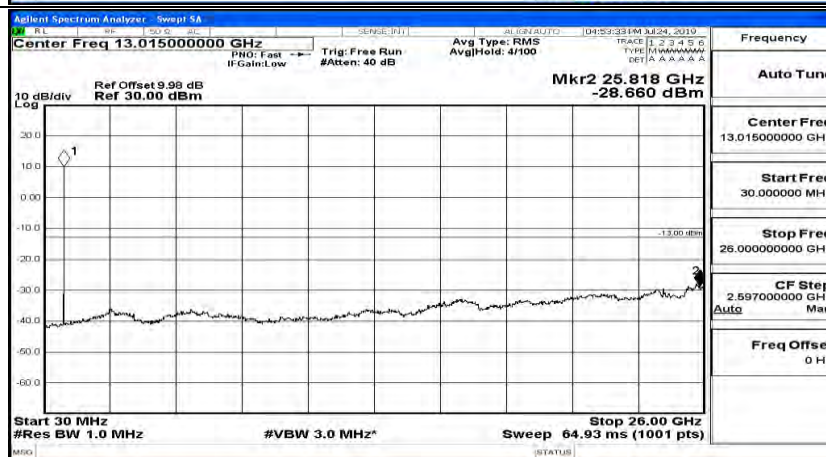
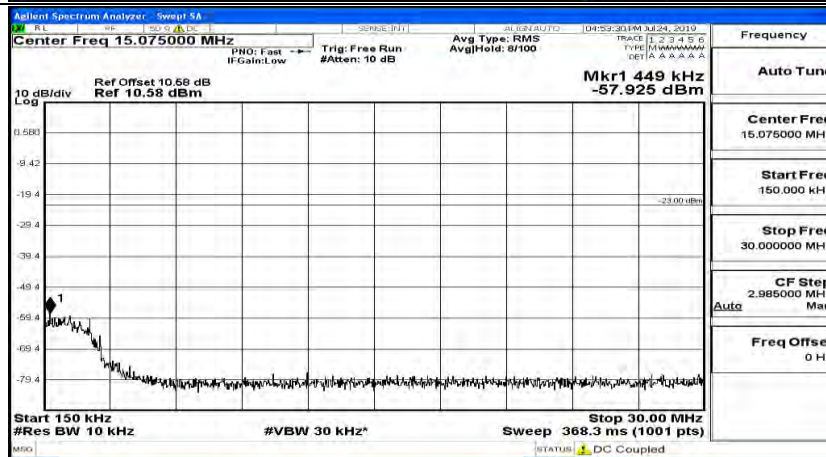
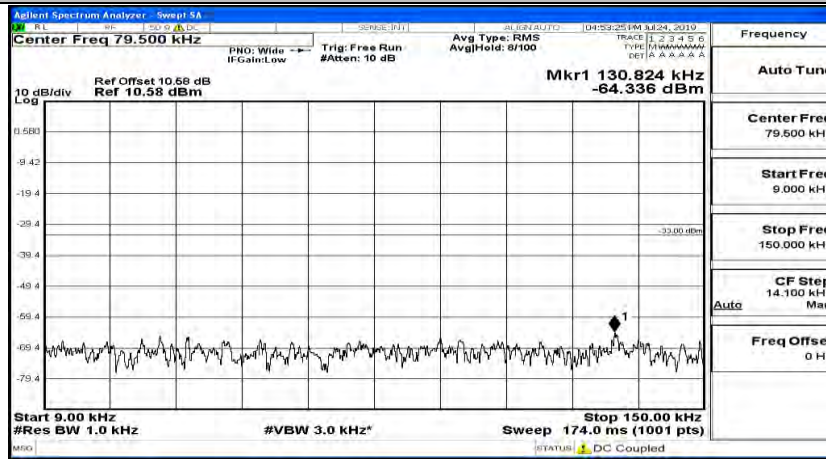
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



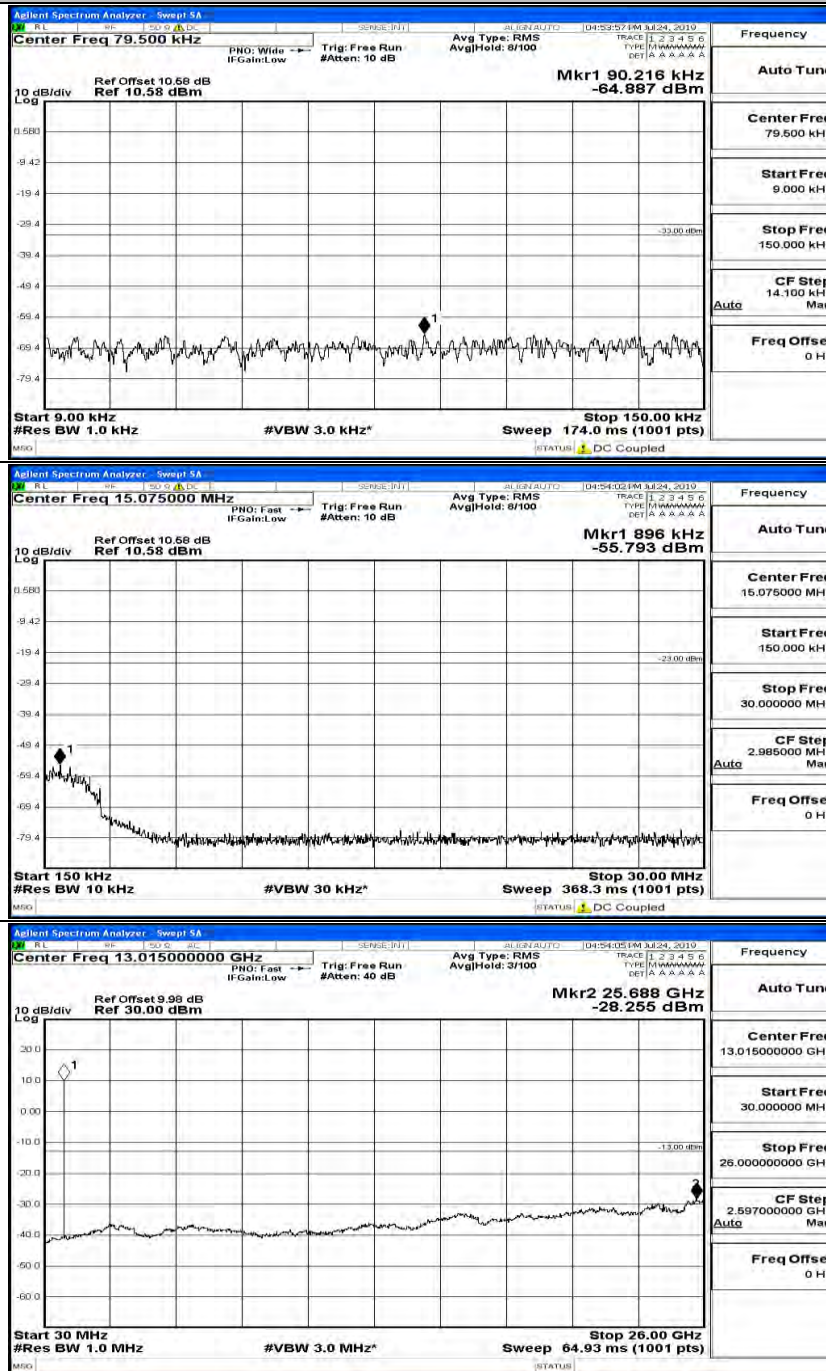
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



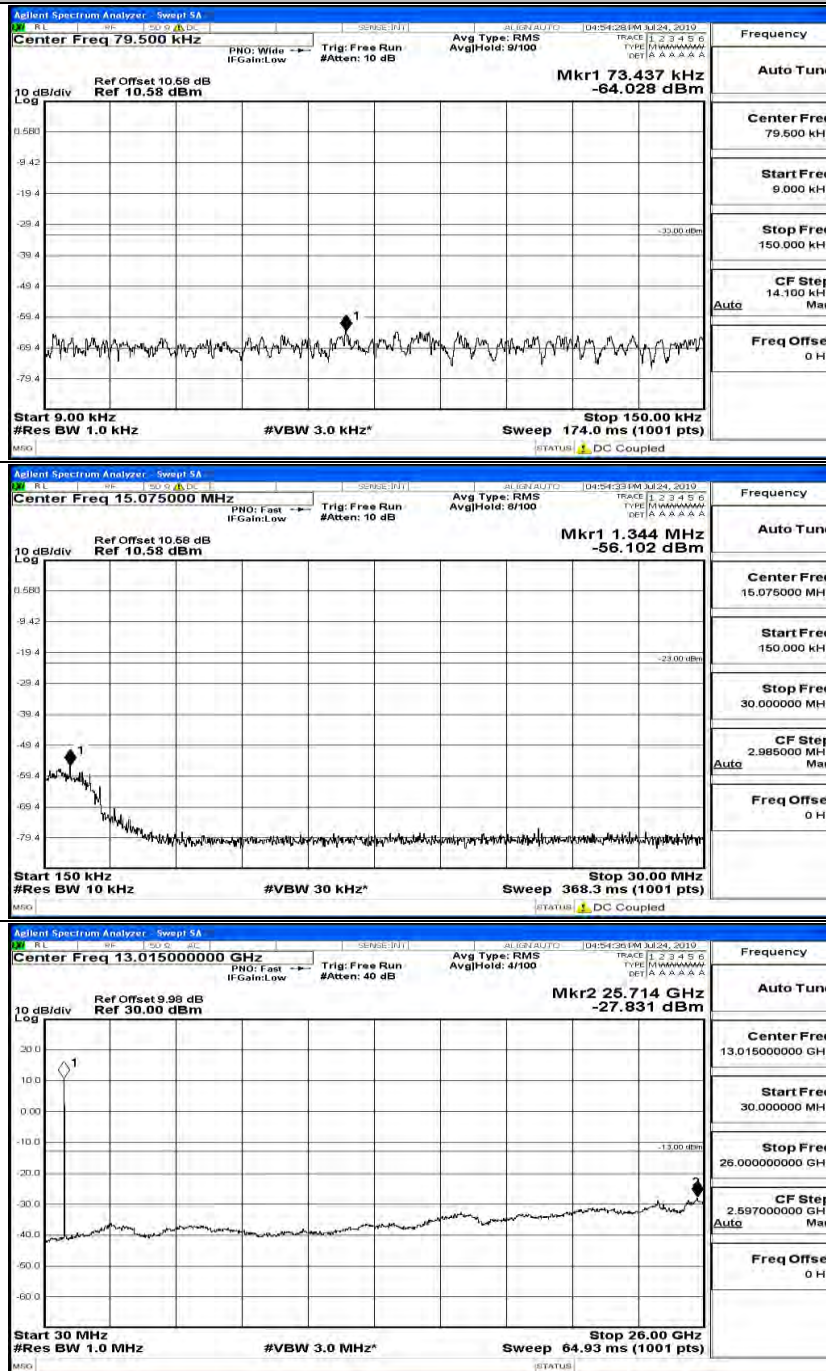
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



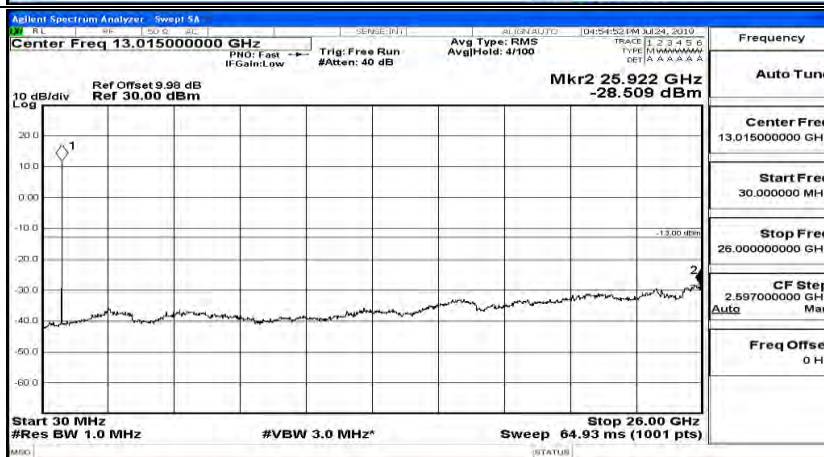
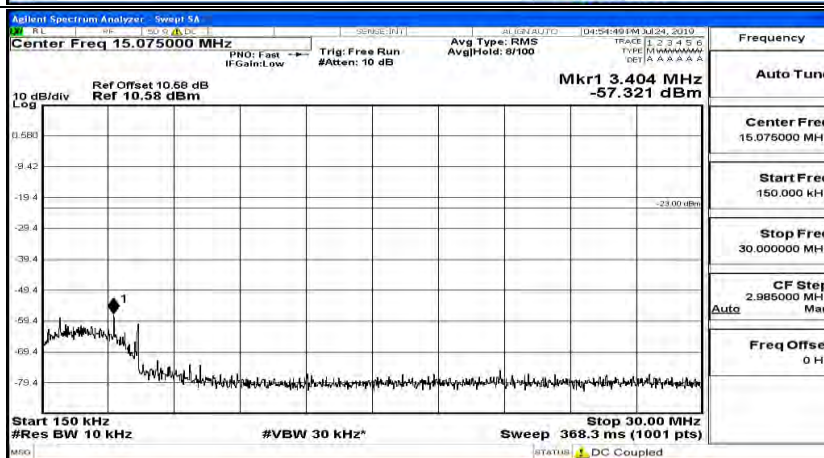
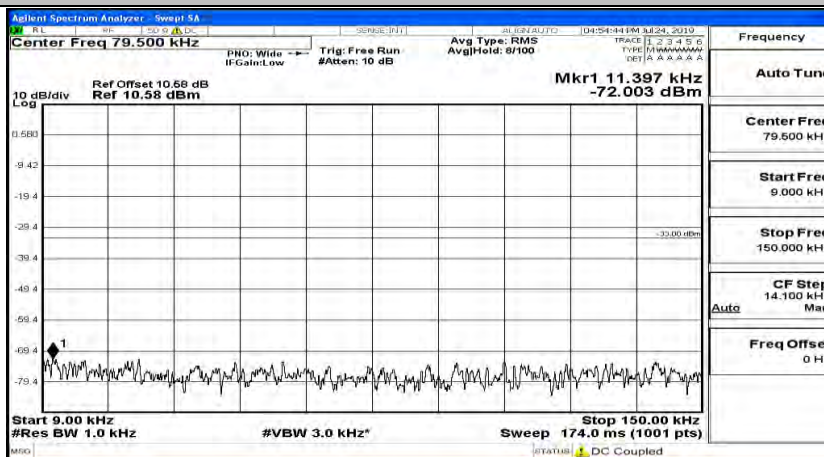
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



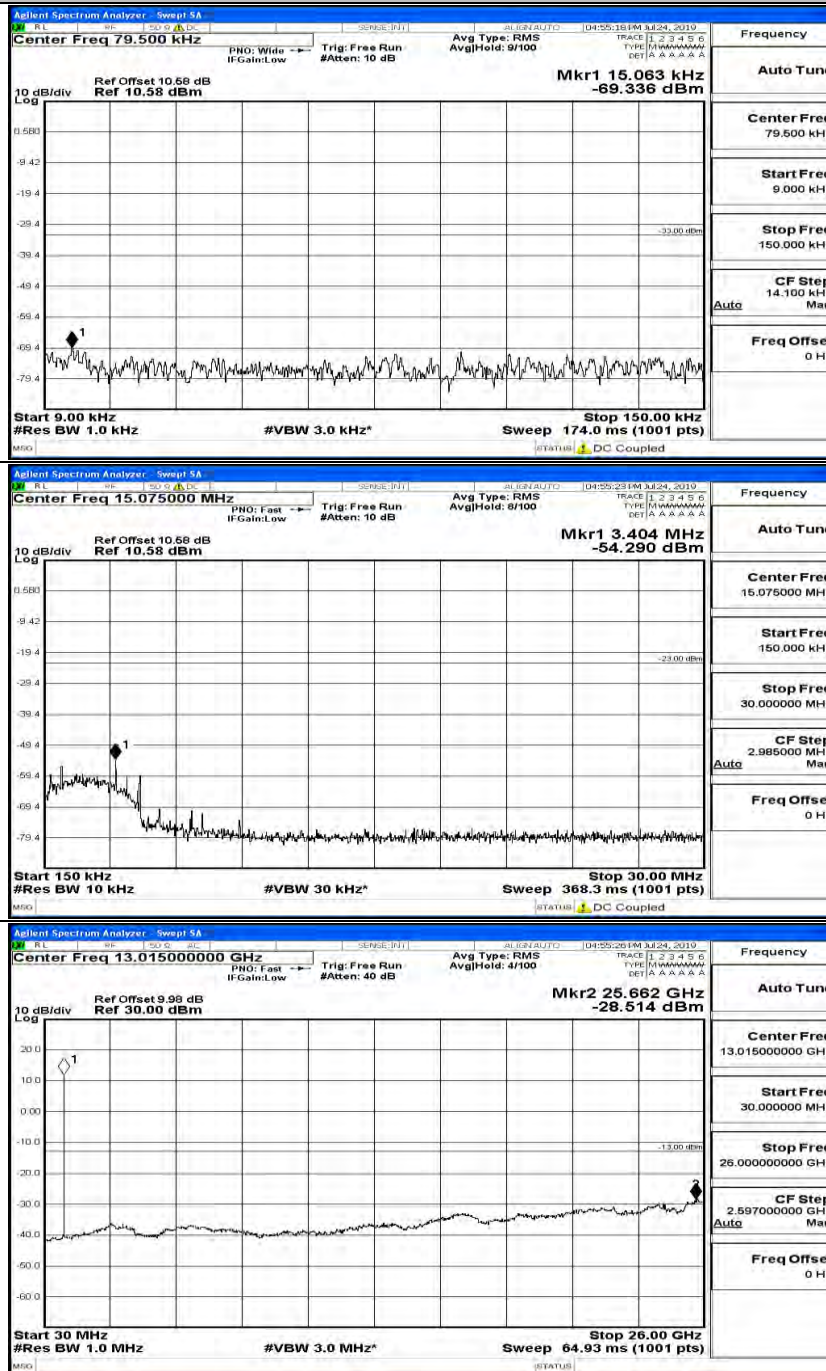
CSE Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



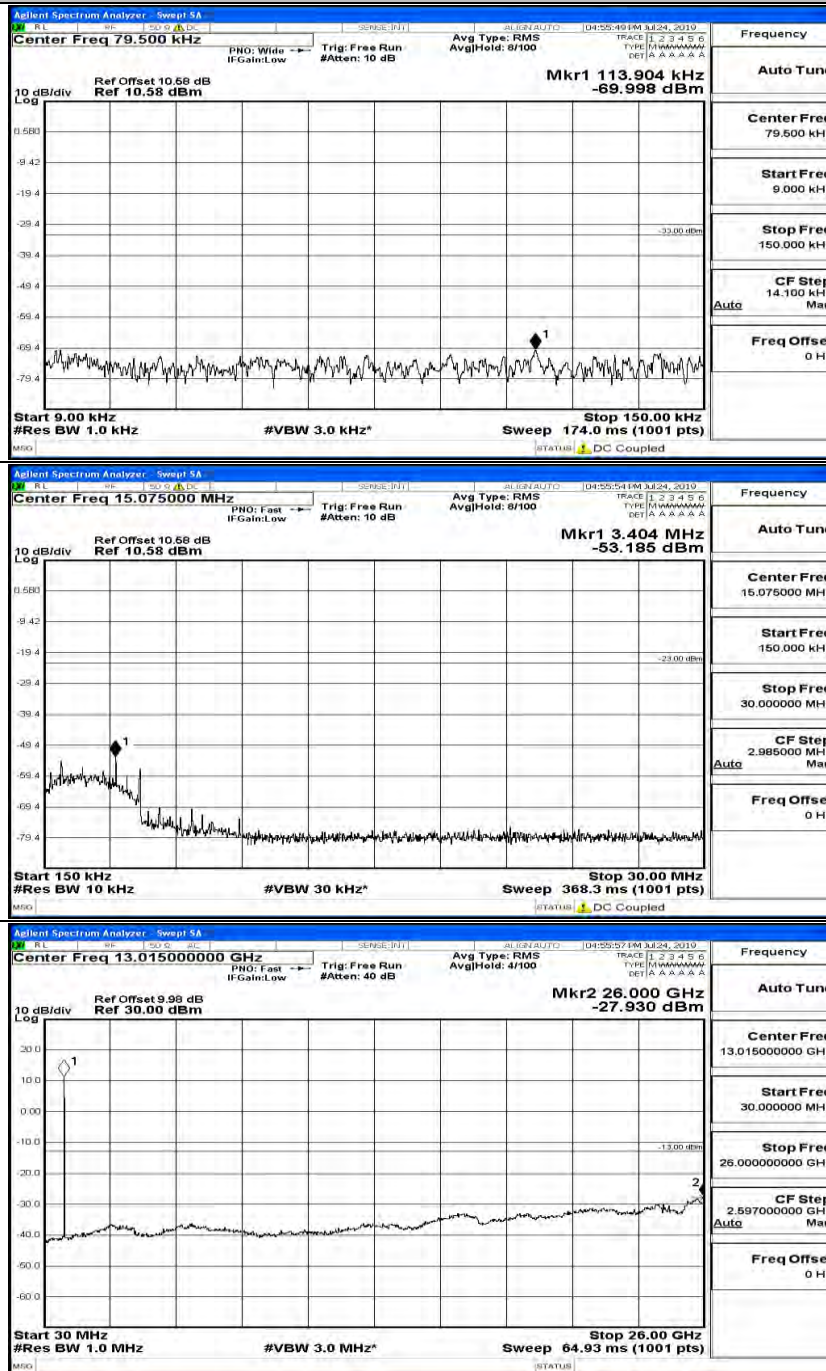
CSE Test Graph(s) (Channel Bandwidth: 5 MHz) LCH QPSK



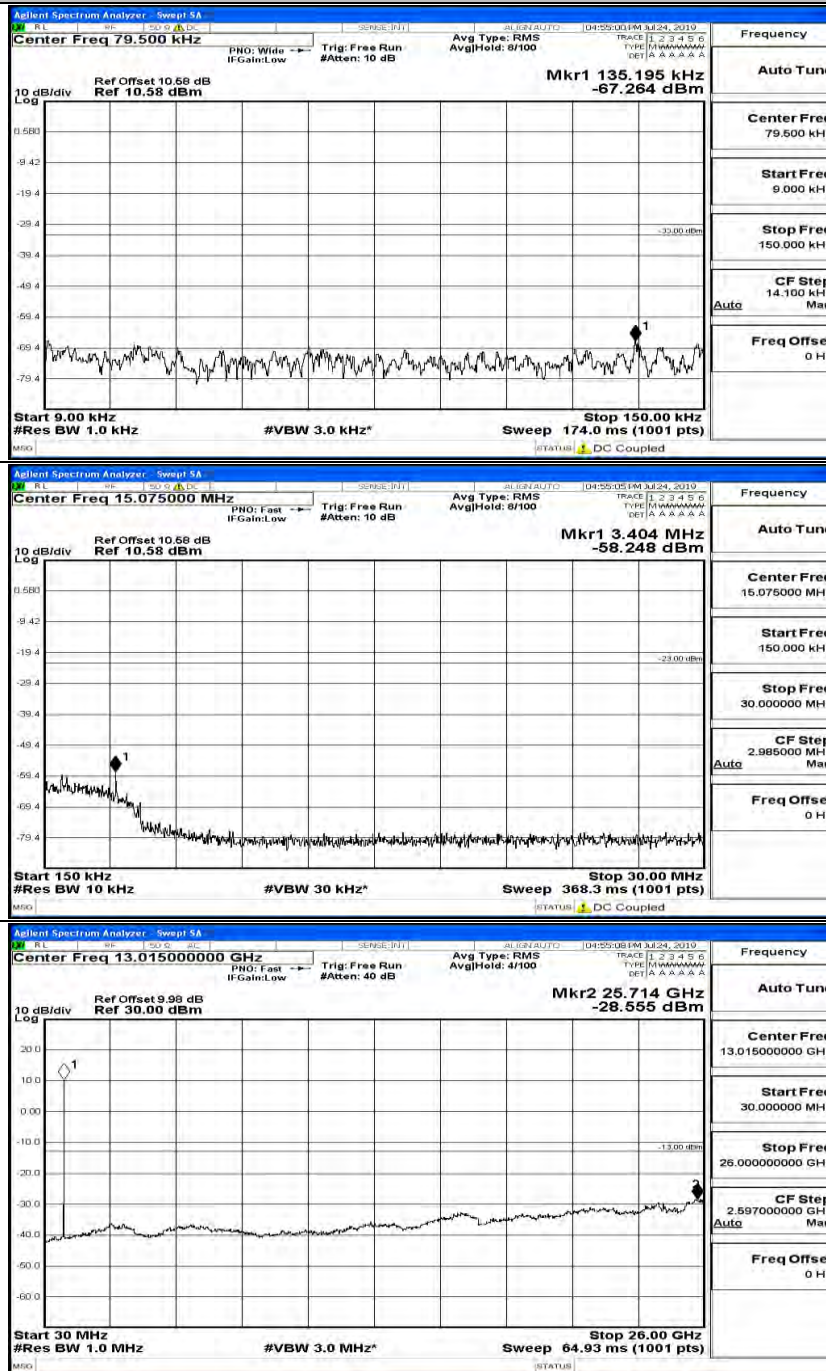
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



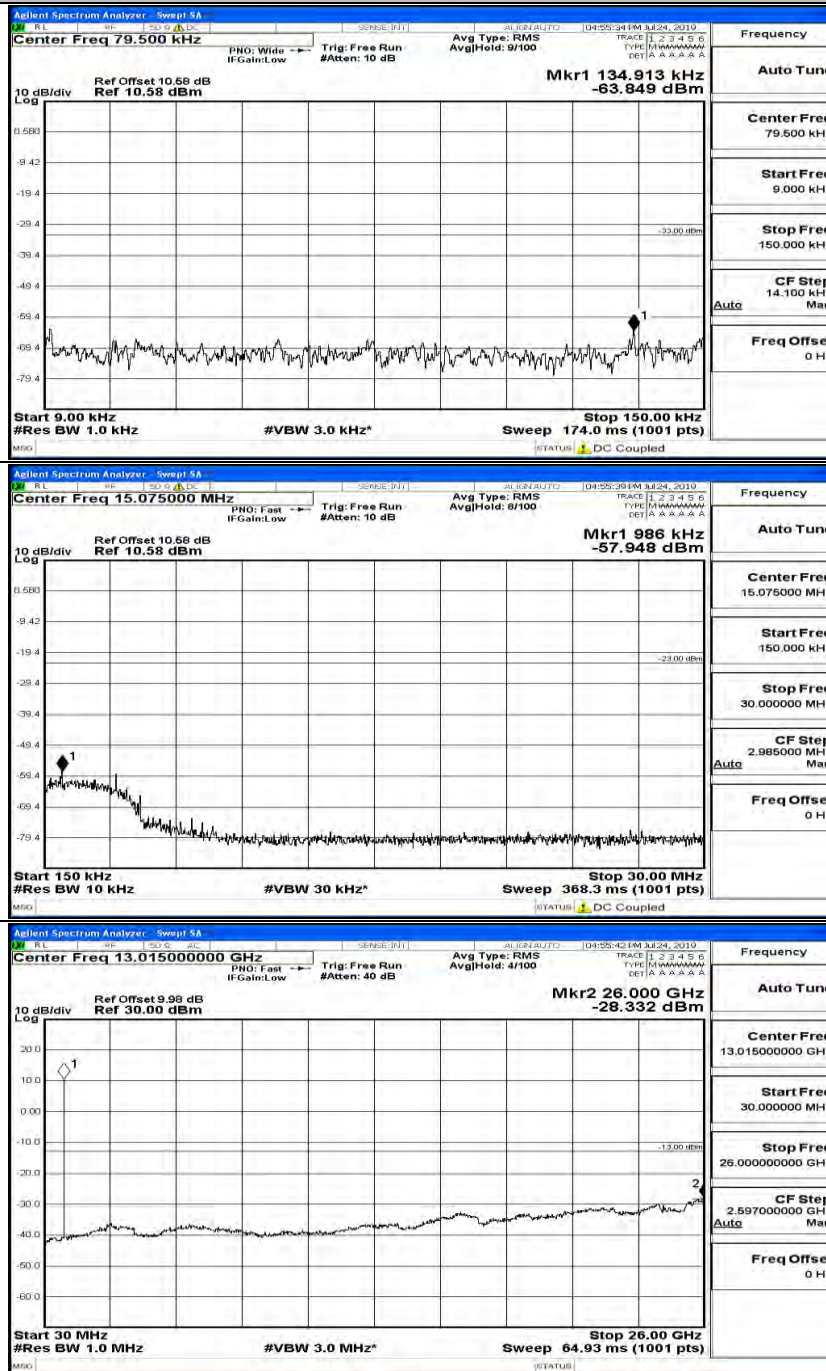
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



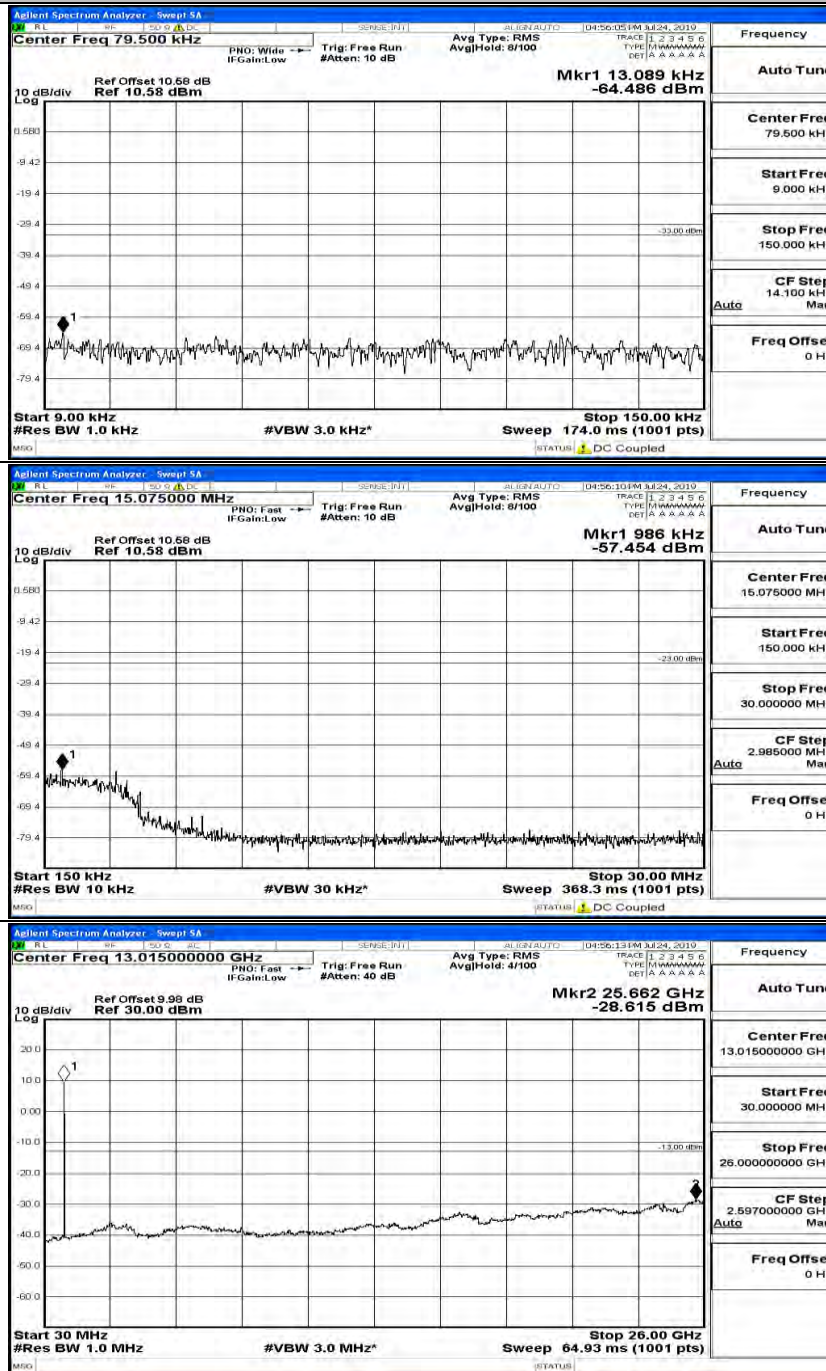
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



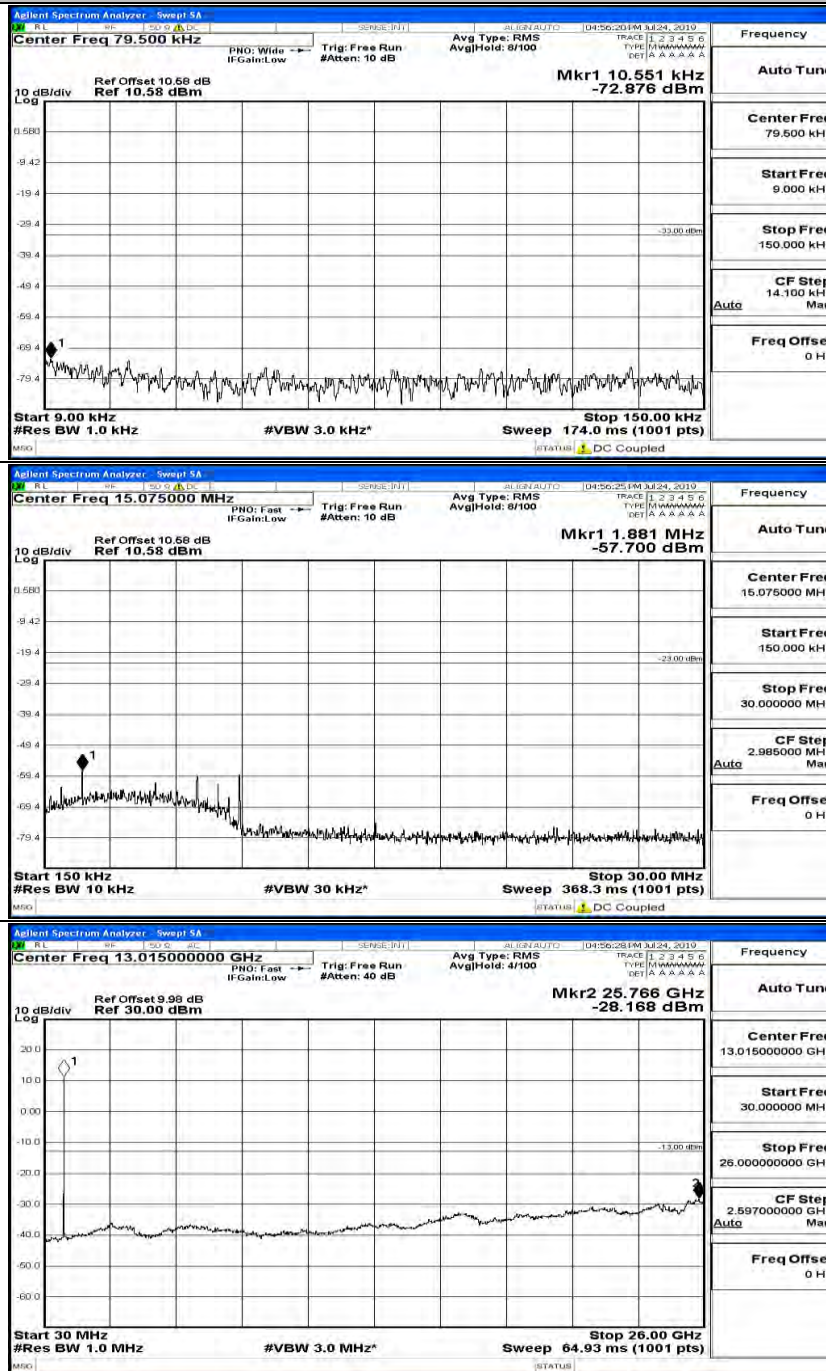
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



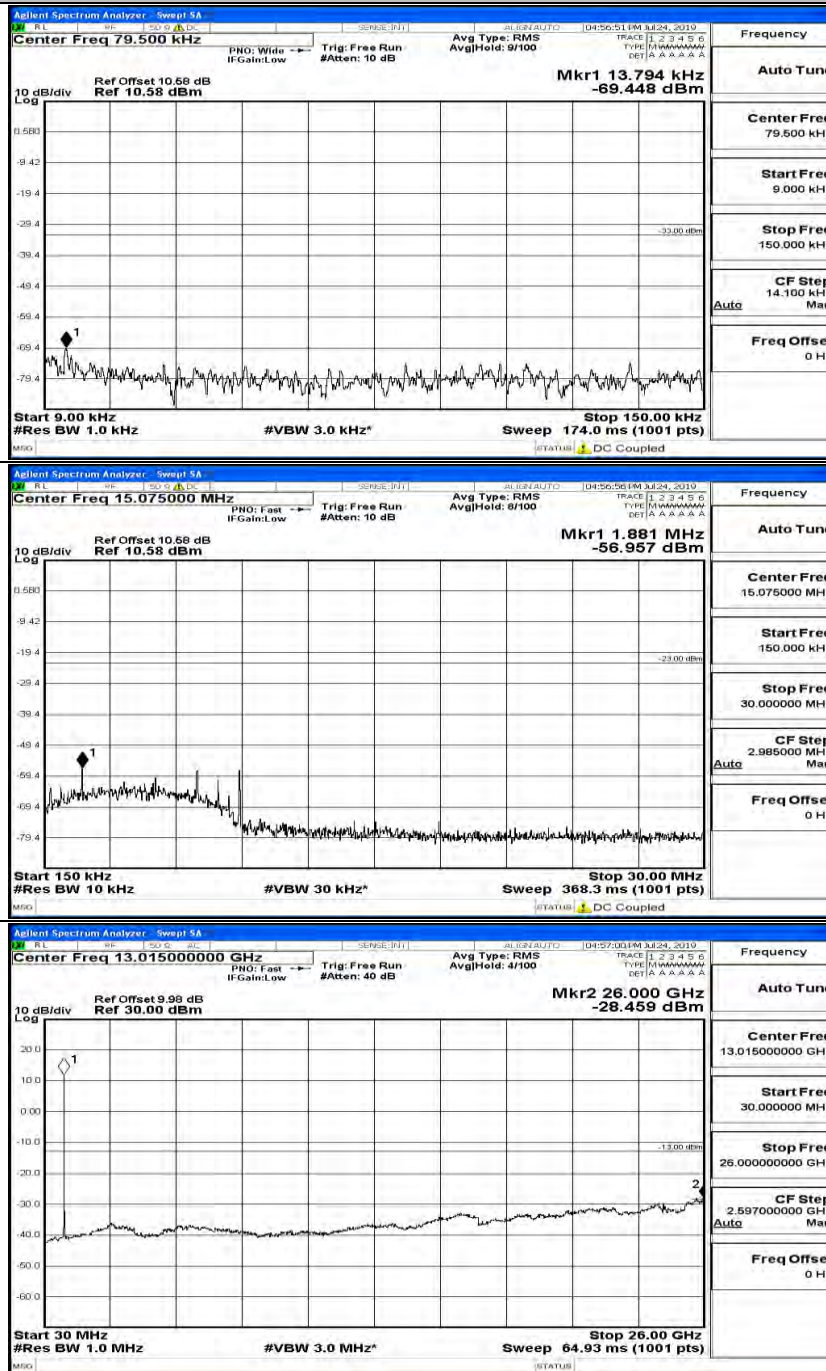
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



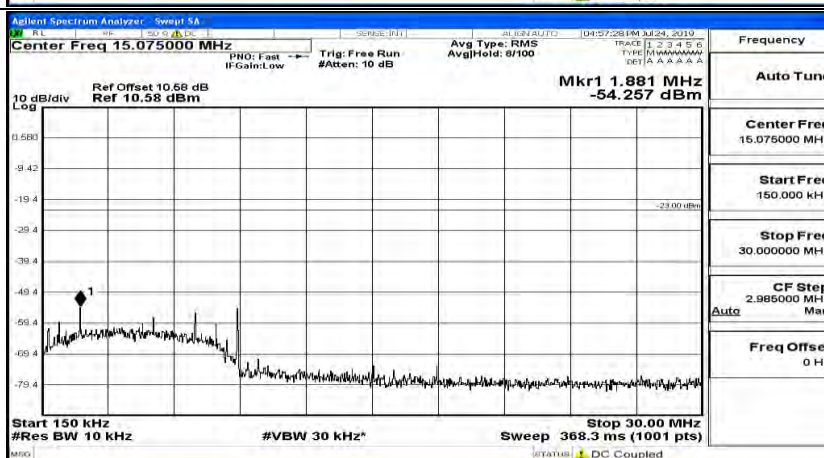
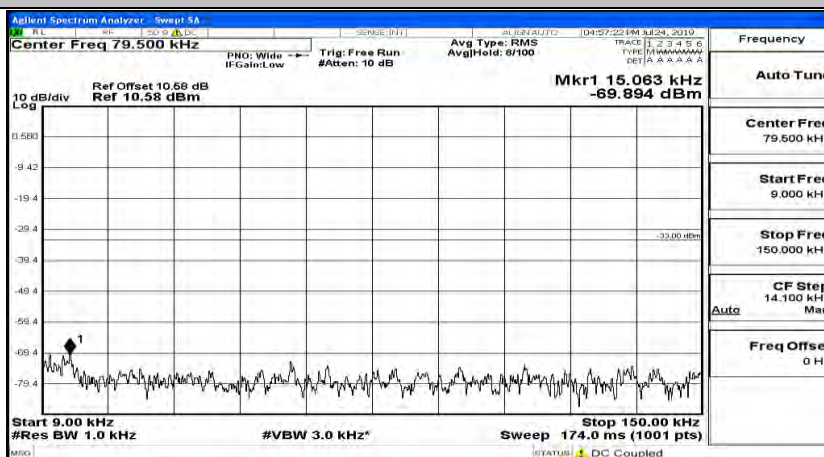
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



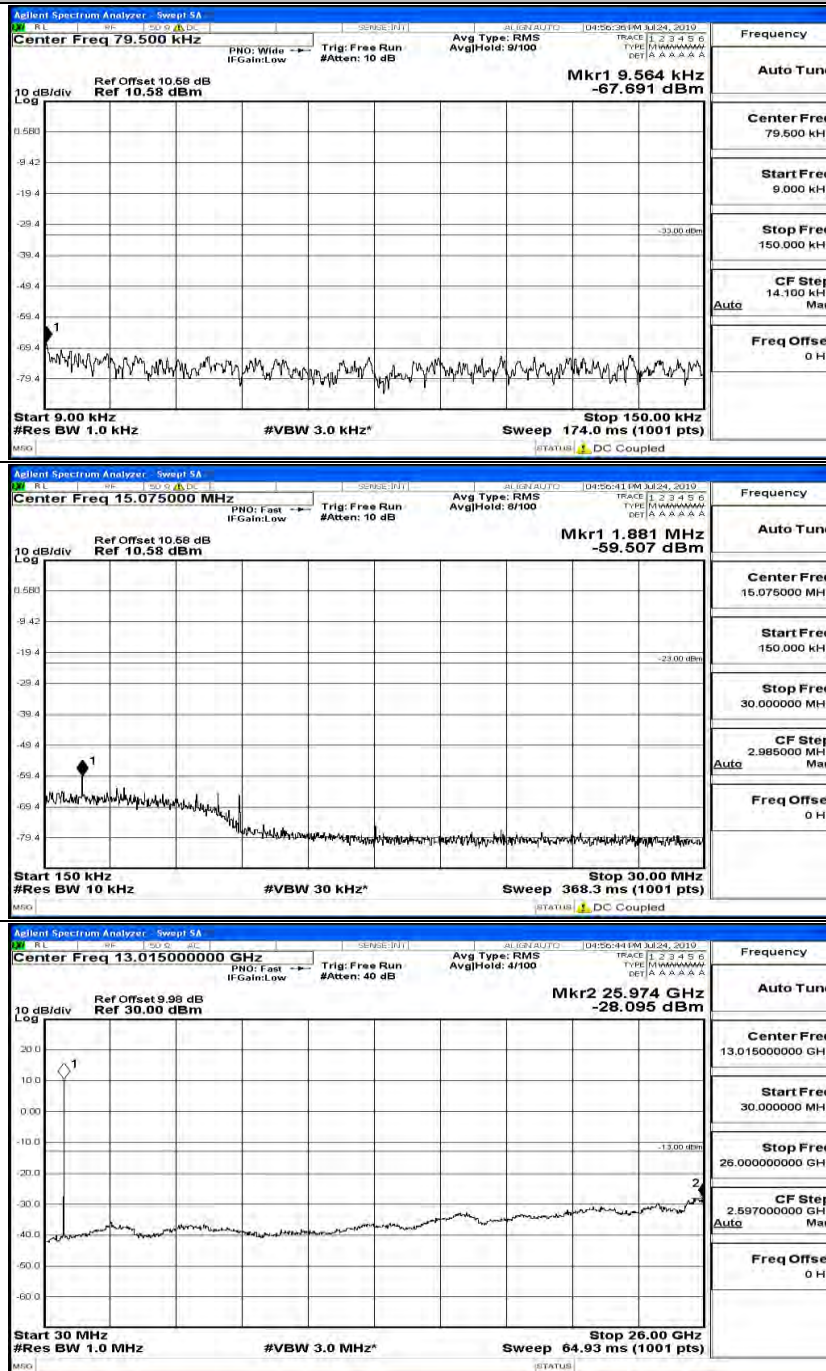
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



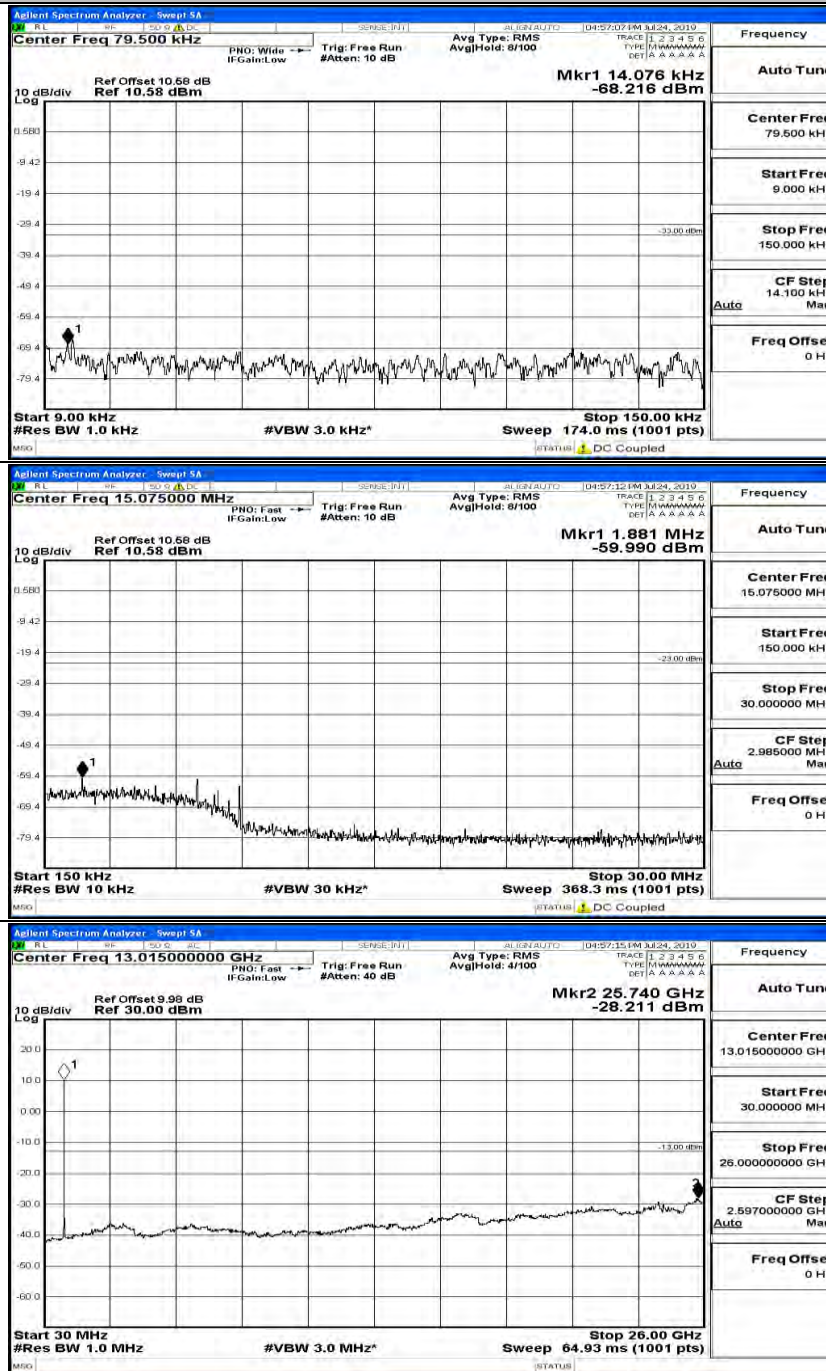
CSE Test Graph(s) (Channel Bandwidth: 10 MHz) HCH QPSK



CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

