

Appendix C: Test Data for E-UTRA Band 7

Product Name: Portable Data Collector

Trade Mark: Newland

Test Model: NLS-NFT10

Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	TOM.LIU

A.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.32	20.18	PASS
		1	12	21.36	20.50	PASS
		1	24	21.09	20.35	PASS
		12	0	20.01	19.20	PASS
		12	6	20.19	19.32	PASS
		12	13	20.18	19.28	PASS
		25	0	20.11	19.16	PASS
	MCH	1	0	20.98	20.25	PASS
		1	12	21.25	20.39	PASS
		1	24	20.80	20.00	PASS
		12	0	19.95	18.80	PASS
		12	6	19.96	18.96	PASS
		12	13	19.67	18.75	PASS
		25	0	19.48	18.51	PASS
	HCH	1	0	19.84	18.79	PASS
		1	12	20.23	18.96	PASS
		1	24	19.87	18.73	PASS
		12	0	18.85	17.89	PASS
		12	6	18.91	17.98	PASS
		12	13	18.80	17.88	PASS
		25	0	18.91	17.94	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	20.48	19.68	PASS
		1	24	20.88	20.02	PASS
		1	49	20.82	20.04	PASS
		25	0	19.66	18.71	PASS
		25	12	19.80	18.78	PASS
		25	25	19.88	18.92	PASS
		50	0	19.78	18.77	PASS
	MCH	1	0	20.62	19.84	PASS
		1	24	20.60	19.79	PASS
		1	49	20.36	19.52	PASS
		25	0	19.59	18.63	PASS
		25	12	19.54	18.53	PASS
		25	25	19.41	18.45	PASS
		50	0	19.50	18.50	PASS
	HCH	1	0	20.13	19.50	PASS
		1	24	20.09	19.43	PASS
		1	49	19.89	19.18	PASS
		25	0	19.12	18.17	PASS
		25	12	19.02	18.07	PASS
		25	25	18.95	18.02	PASS
		50	0	19.03	18.13	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	20.38	19.58	PASS
		1	37	20.97	20.28	PASS
		1	74	20.71	20.00	PASS
		37	0	19.83	18.79	PASS
		37	18	20.00	18.96	PASS
		37	38	19.98	18.93	PASS
		75	0	19.96	18.89	PASS
	MCH	1	0	20.75	19.96	PASS
		1	37	20.63	19.78	PASS
		1	74	20.31	19.52	PASS
		37	0	19.73	18.70	PASS
		37	18	19.68	18.60	PASS
		37	38	19.58	18.48	PASS
		75	0	19.68	18.60	PASS
	HCH	1	0	20.50	19.79	PASS
		1	37	20.28	19.46	PASS
		1	74	19.79	19.02	PASS
		37	0	19.42	18.46	PASS
		37	18	19.22	18.26	PASS
		37	38	19.04	18.04	PASS
		75	0	19.27	18.24	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	20.30	19.43	PASS
		1	49	21.14	20.23	PASS
		1	99	20.57	19.78	PASS
		50	0	19.85	18.83	PASS
		50	25	20.00	19.01	PASS
		50	50	19.97	18.94	PASS
		100	0	19.91	18.89	PASS
	MCH	1	0	20.75	19.96	PASS
		1	49	20.75	19.85	PASS
		1	99	20.38	19.52	PASS
		50	0	19.74	18.73	PASS
		50	25	19.54	18.56	PASS
		50	50	19.42	18.40	PASS
		100	0	19.57	18.60	PASS
	HCH	1	0	20.64	19.94	PASS
		1	49	20.51	19.81	PASS
		1	99	19.62	18.91	PASS
		50	0	19.67	18.74	PASS
		50	25	19.38	18.47	PASS
		50	50	19.09	18.12	PASS
		100	0	19.34	18.36	PASS

A.2 Peak-to-Average Ratio

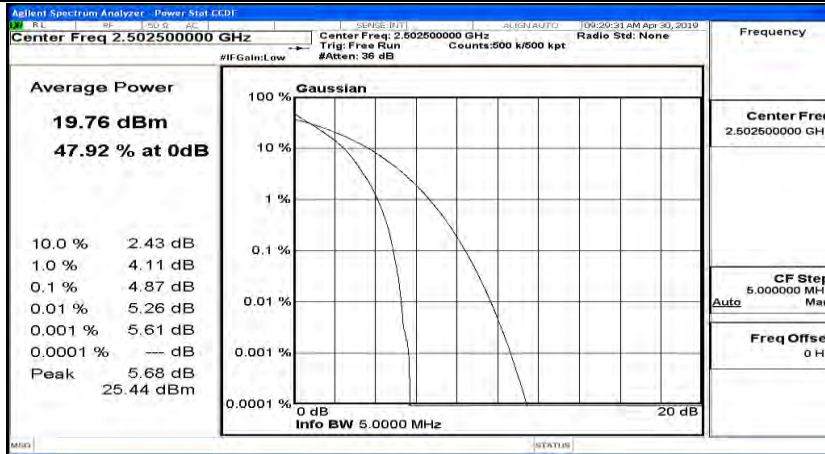
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.87	<13	PASS
	MCH	4.82	<13	PASS
	HCH	5.04	<13	PASS
16QAM	LCH	5.71	<13	PASS
	MCH	5.68	<13	PASS
	HCH	5.89	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.04	<13	PASS
	MCH	5.01	<13	PASS
	HCH	5.29	<13	PASS
16QAM	LCH	5.83	<13	PASS
	MCH	5.8	<13	PASS
	HCH	6.09	<13	PASS

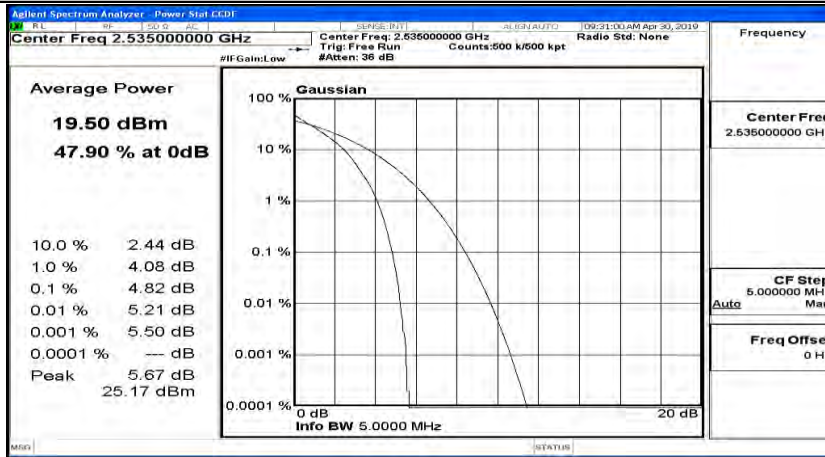
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.98	<13	PASS
	MCH	4.99	<13	PASS
	HCH	5.02	<13	PASS
16QAM	LCH	6.2	<13	PASS
	MCH	6.18	<13	PASS
	HCH	6.31	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.73	<13	PASS
	MCH	5.71	<13	PASS
	HCH	5.74	<13	PASS
16QAM	LCH	6.88	<13	PASS
	MCH	6.82	<13	PASS
	HCH	6.79	<13	PASS

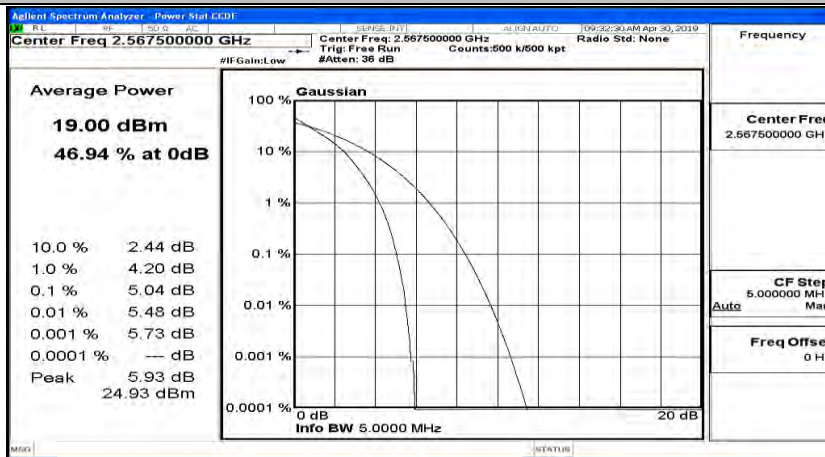
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



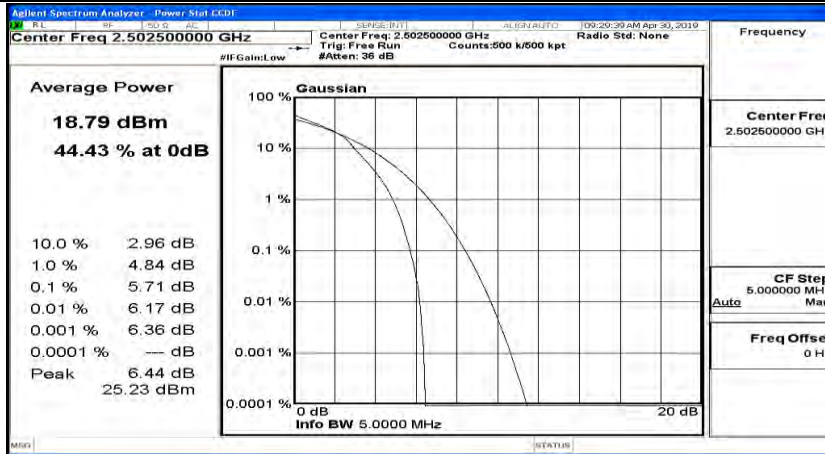
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



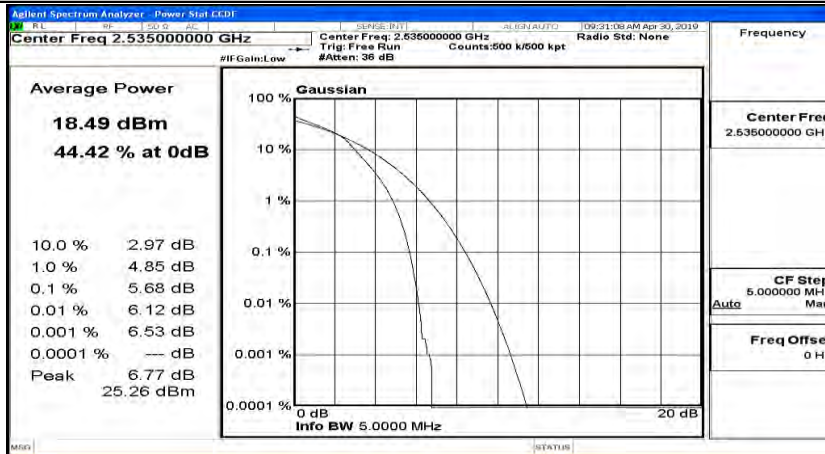
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



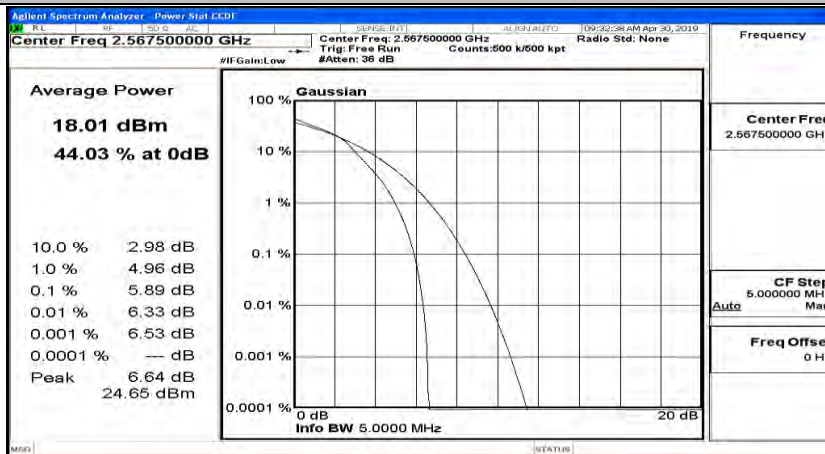
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



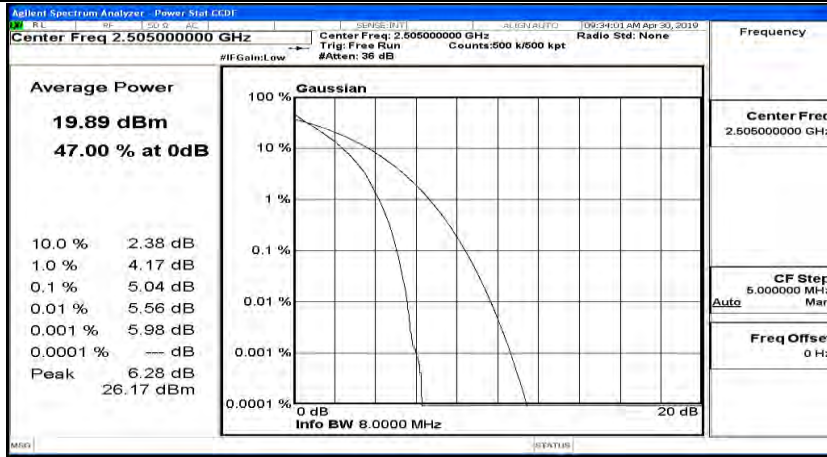
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



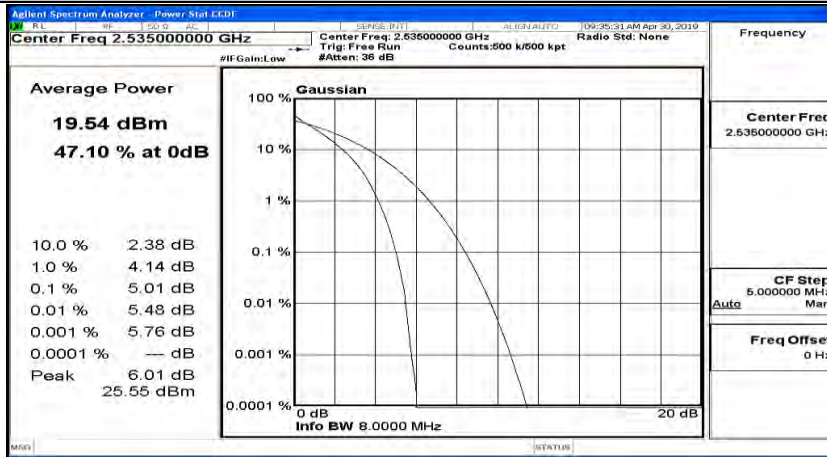
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



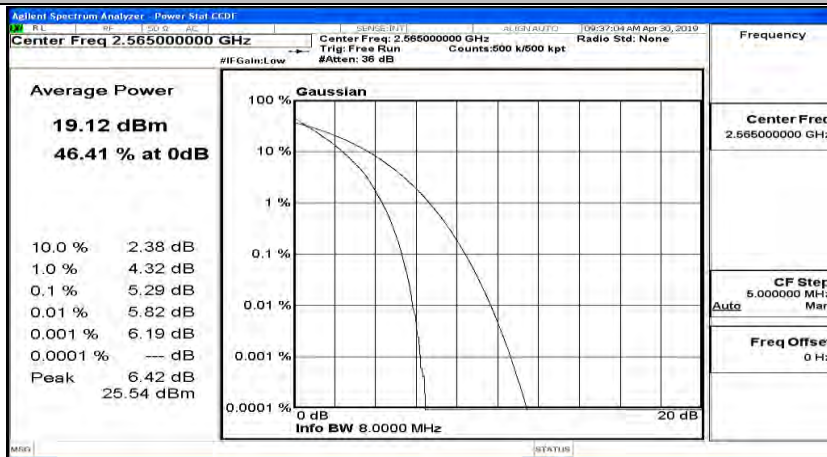
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_QPSK



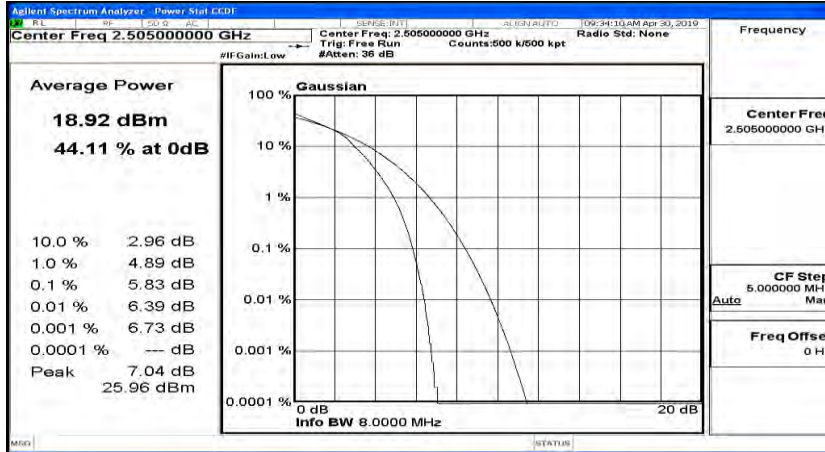
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) MCH_QPSK



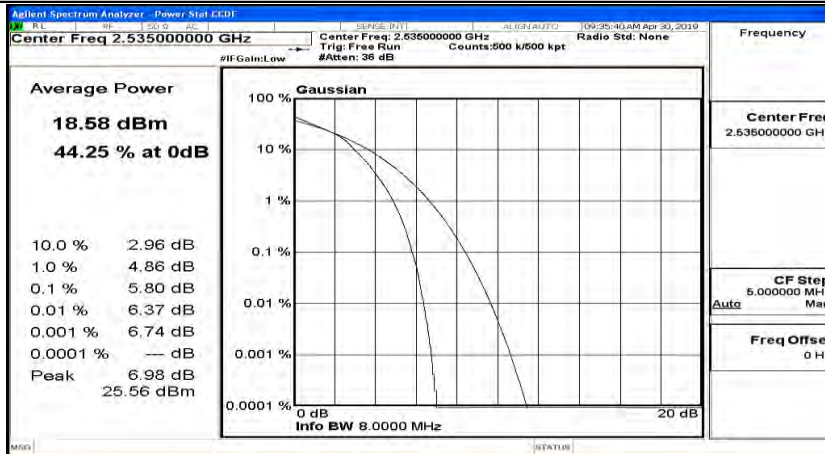
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) HCH_QPSK



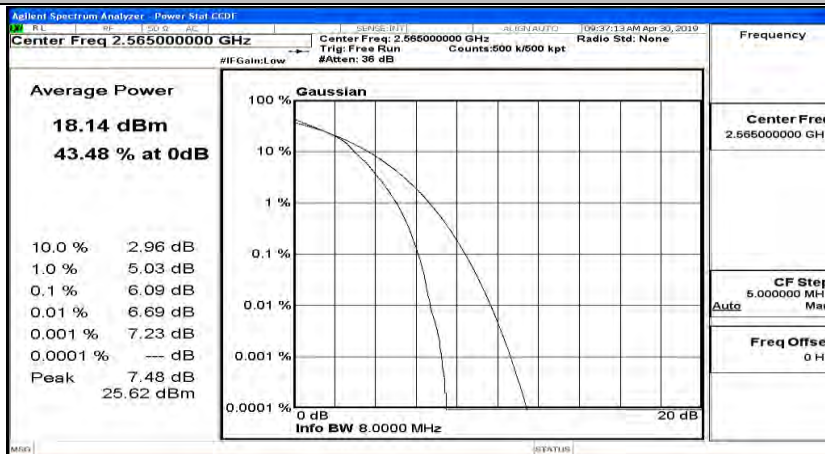
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



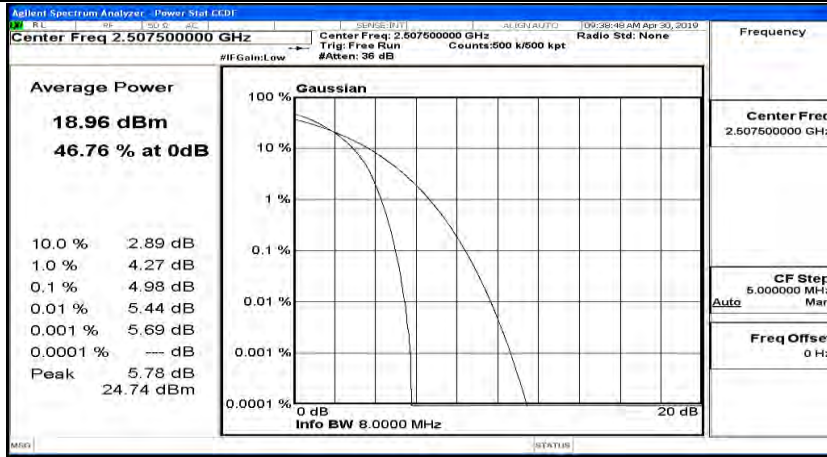
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



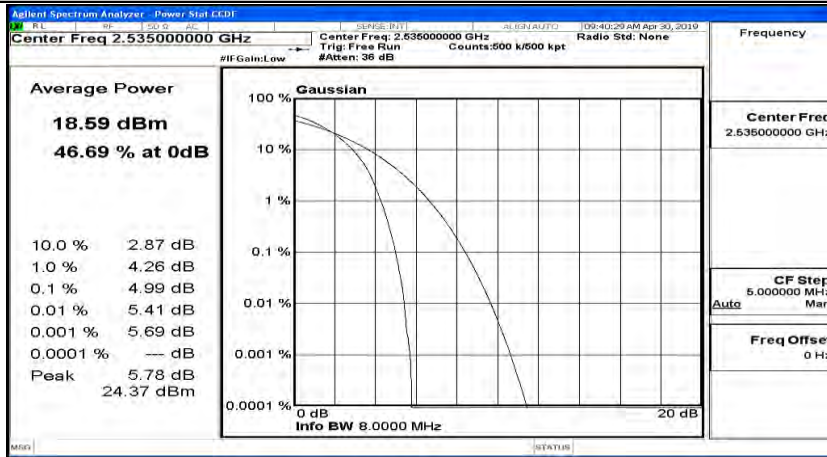
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



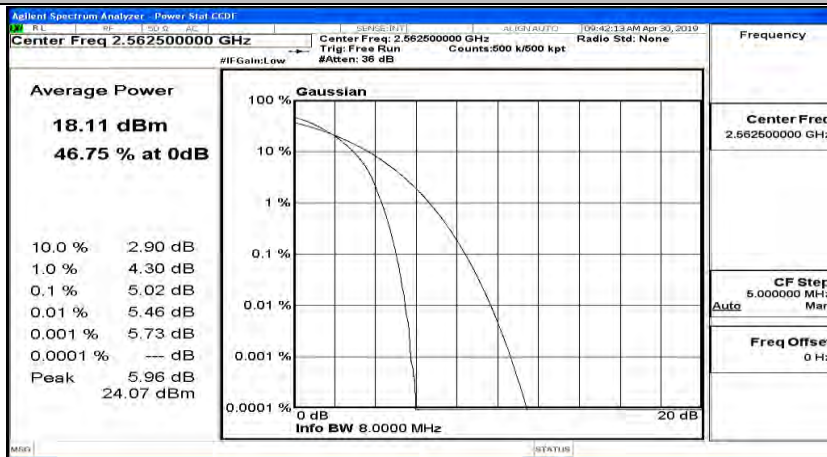
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



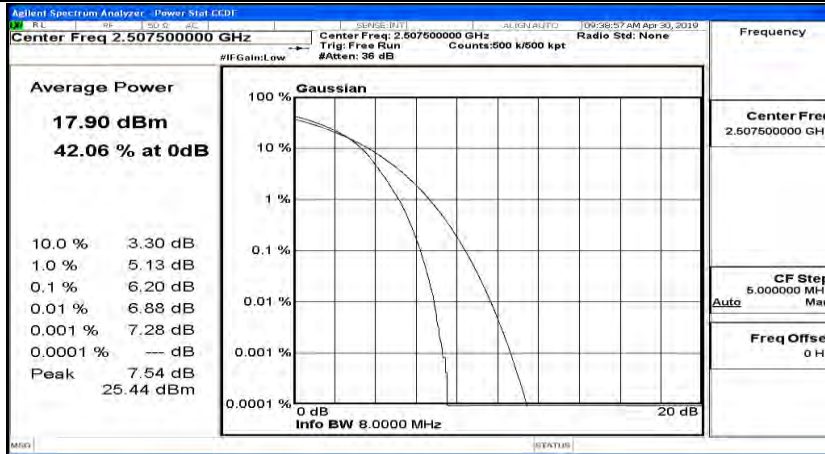
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



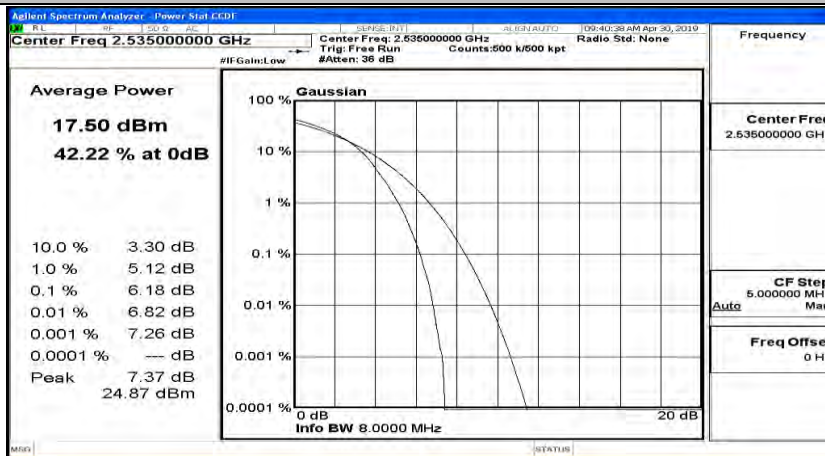
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



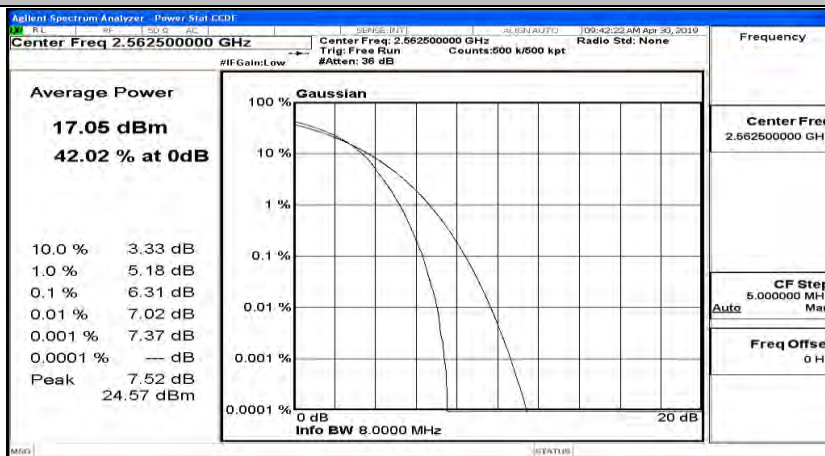
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



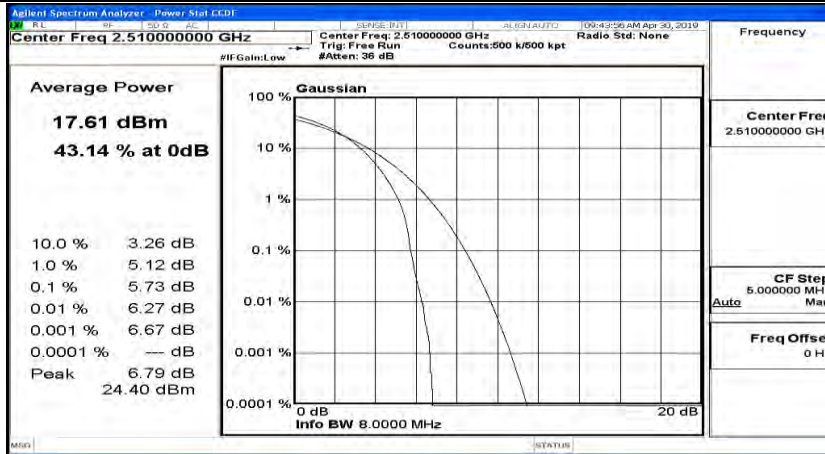
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



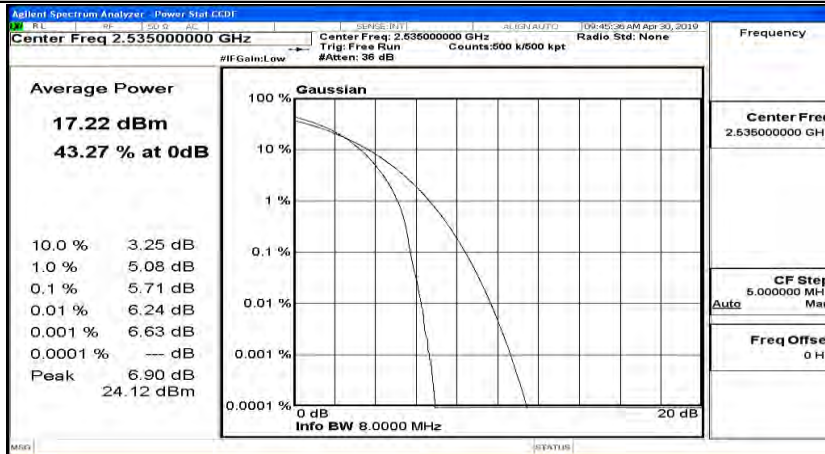
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



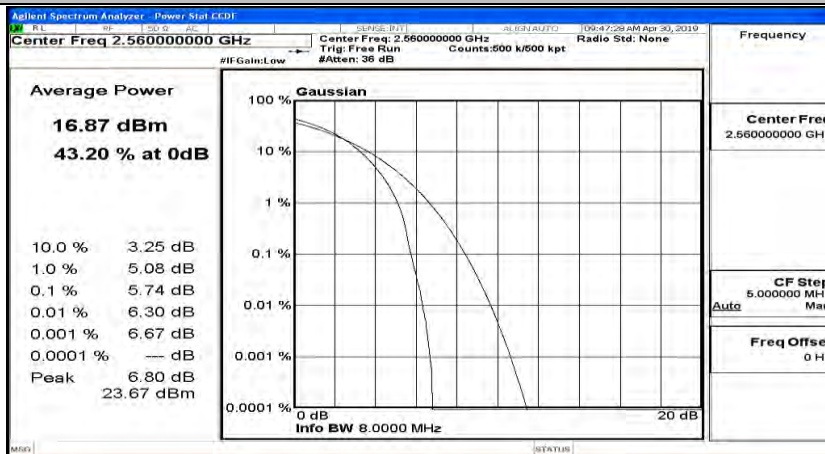
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz) LCH_QPSK



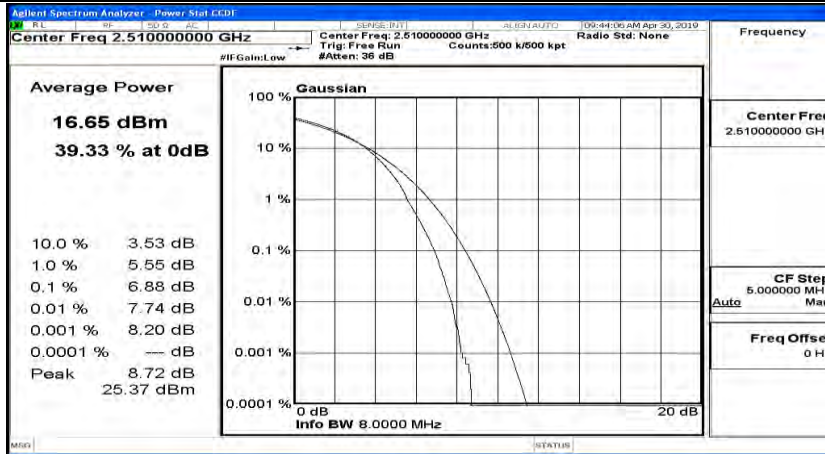
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz) MCH_QPSK



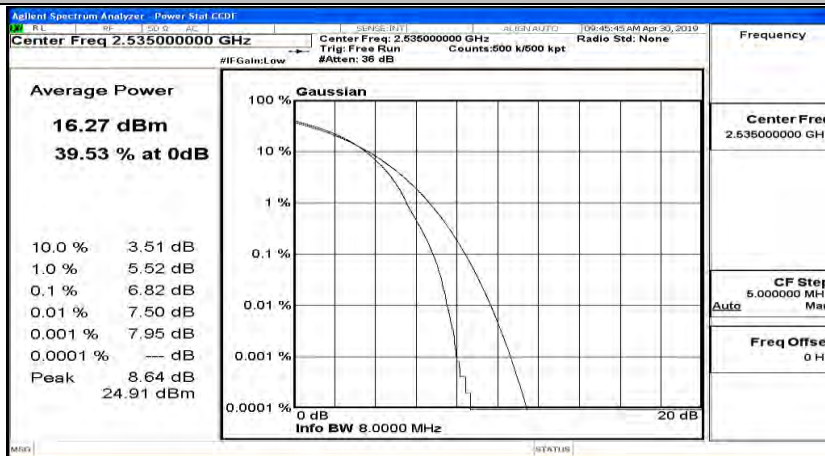
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz) HCH_QPSK



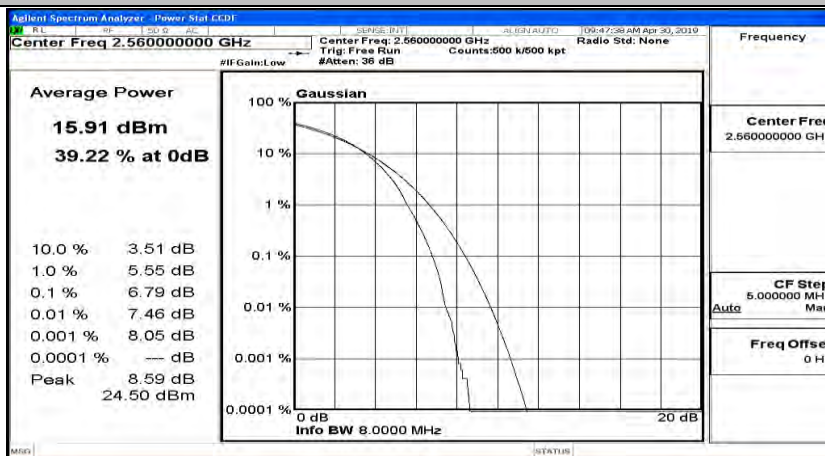
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



A.3 26dB Bandwidth and Occupied Bandwidth

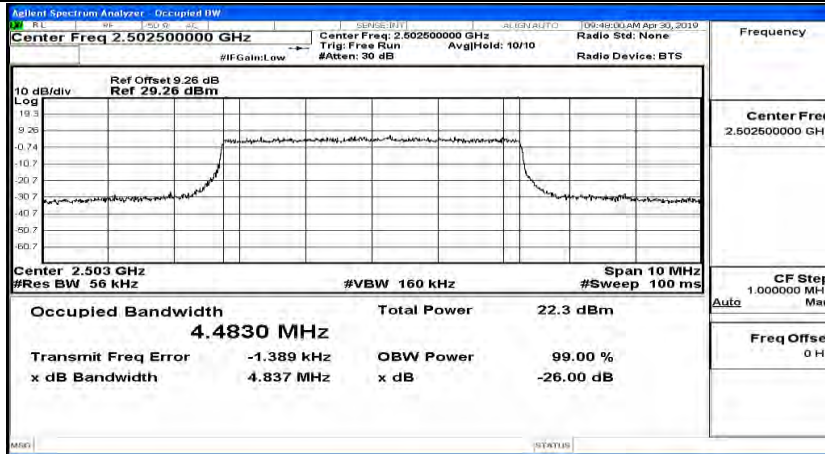
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4830	4.837	PASS
	MCH	4.4776	4.857	PASS
	HCH	4.4862	4.899	PASS
16QAM	LCH	4.4677	4.865	PASS
	MCH	4.4825	4.879	PASS
	HCH	4.4813	4.850	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9383	9.555	PASS
	MCH	8.9456	9.533	PASS
	HCH	8.9342	9.556	PASS
16QAM	LCH	8.9291	9.460	PASS
	MCH	8.9346	9.551	PASS
	HCH	8.9548	9.484	PASS

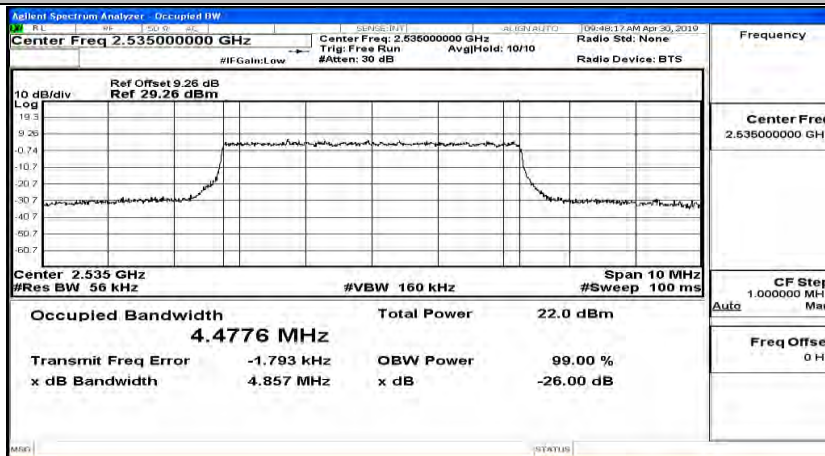
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.392	14.16	PASS
	MCH	13.417	14.16	PASS
	HCH	13.412	14.09	PASS
16QAM	LCH	13.404	14.11	PASS
	MCH	13.403	14.12	PASS
	HCH	13.420	14.09	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.851	18.68	PASS
	MCH	17.866	18.57	PASS
	HCH	17.888	18.63	PASS
16QAM	LCH	17.874	18.63	PASS
	MCH	17.874	18.66	PASS
	HCH	17.872	18.77	PASS

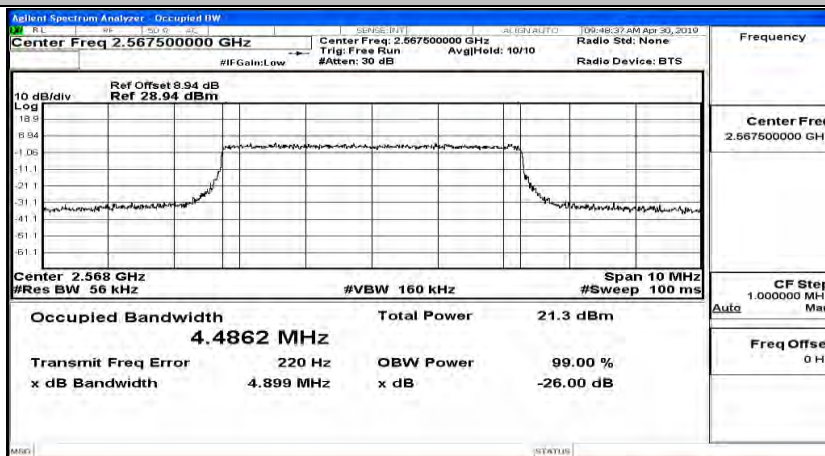
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



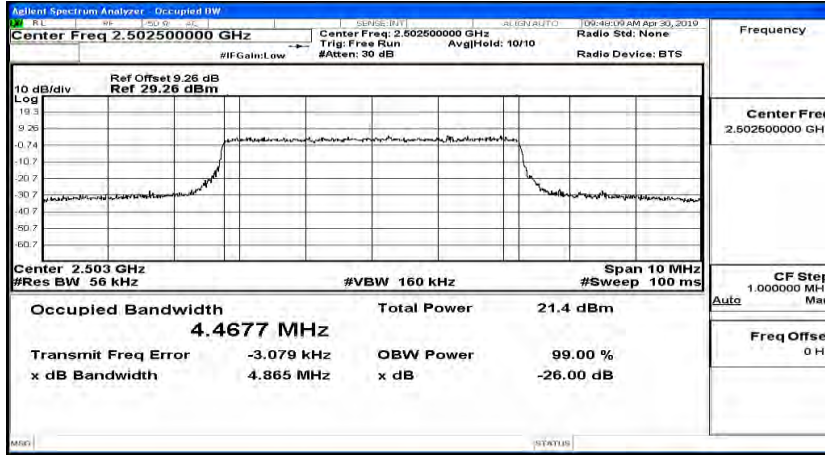
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



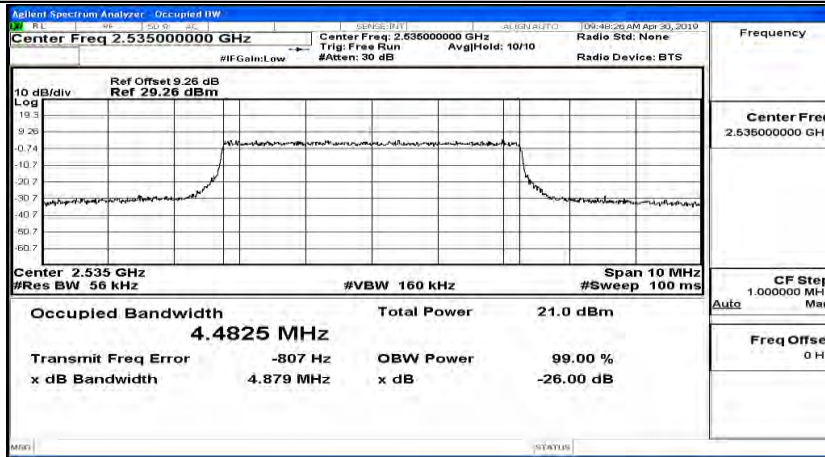
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



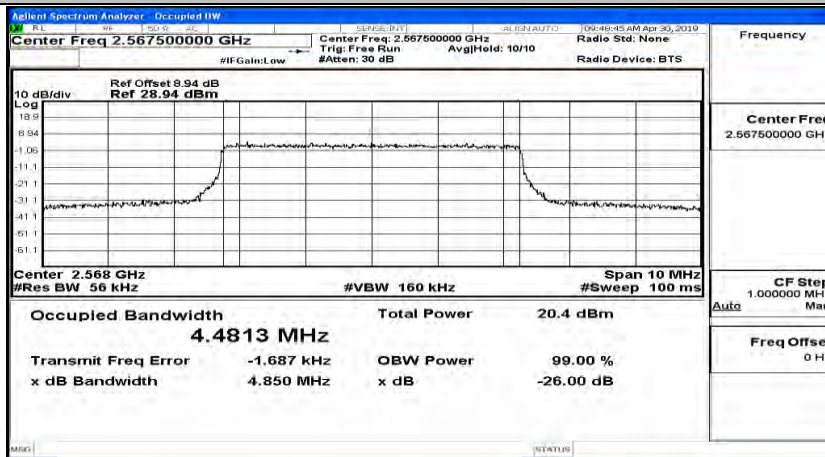
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz) LCH_16QAM



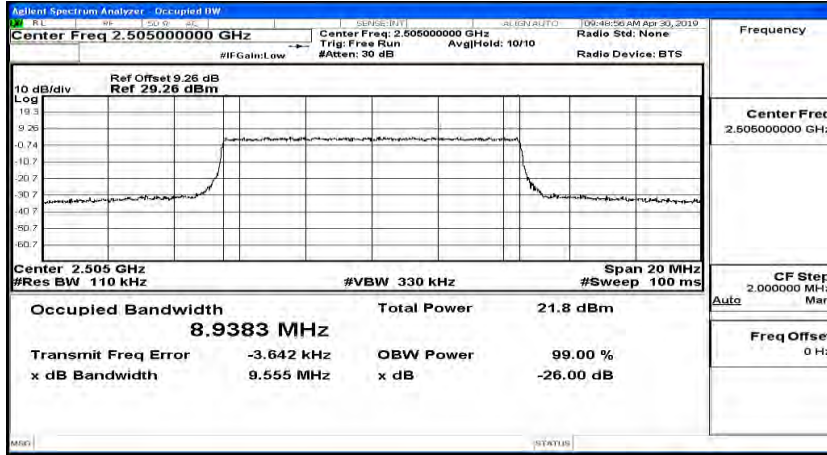
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz) MCH_16QAM



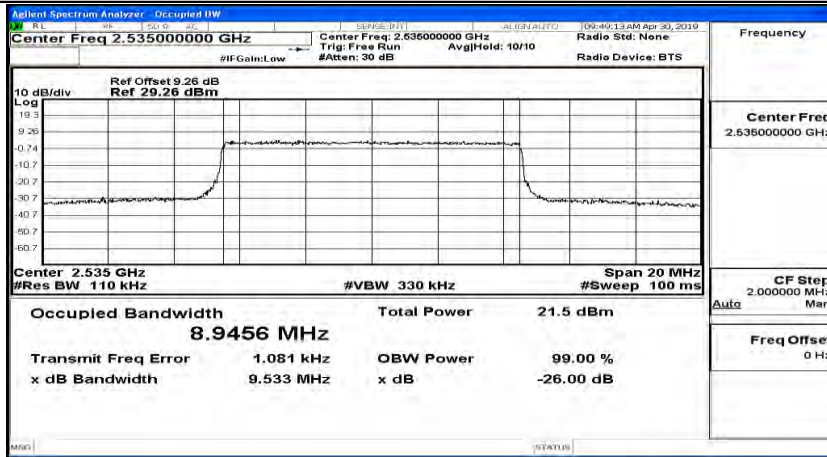
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz) HCH_16QAM



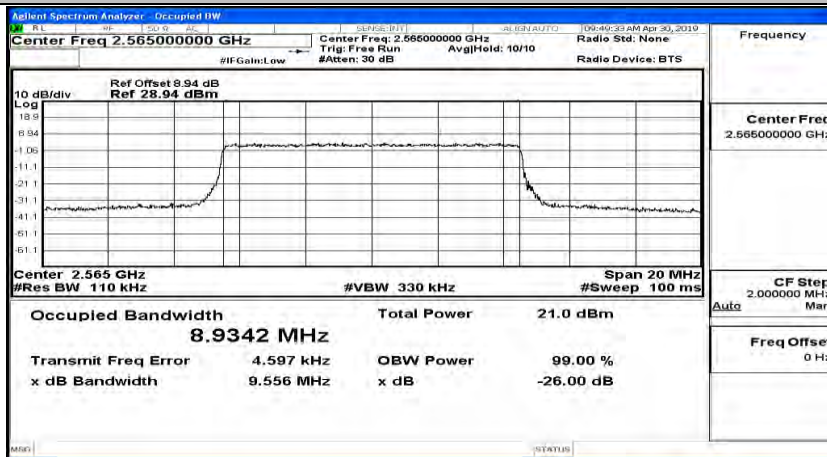
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_QPSK



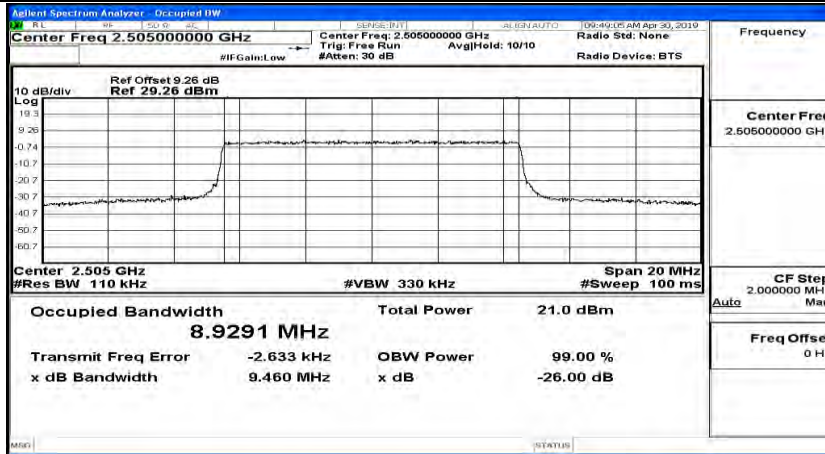
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz) MCH_QPSK



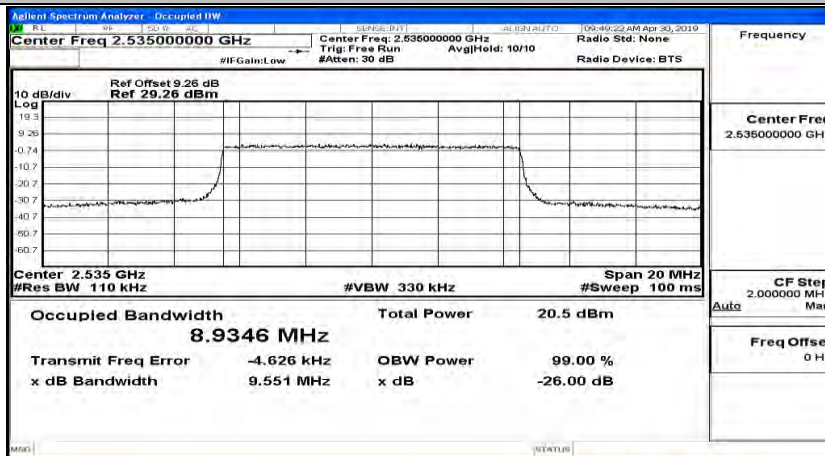
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz) HCH_QPSK



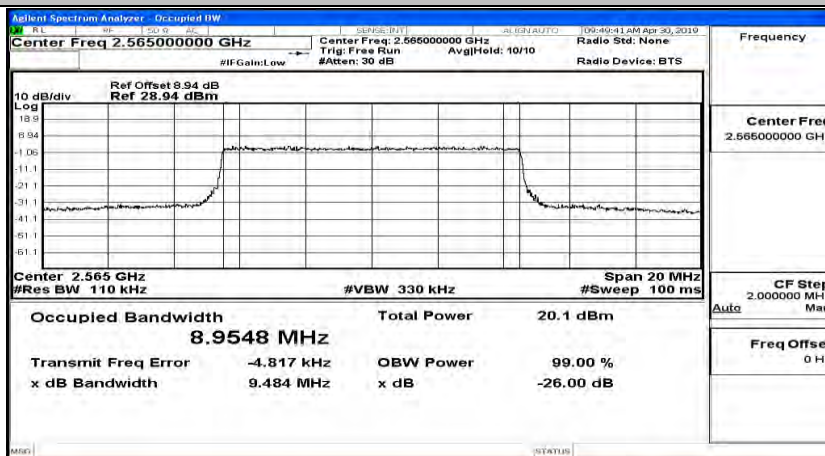
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



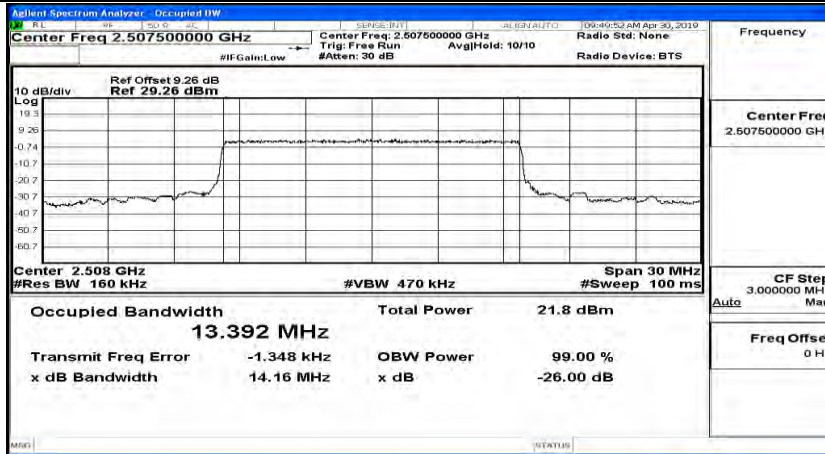
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



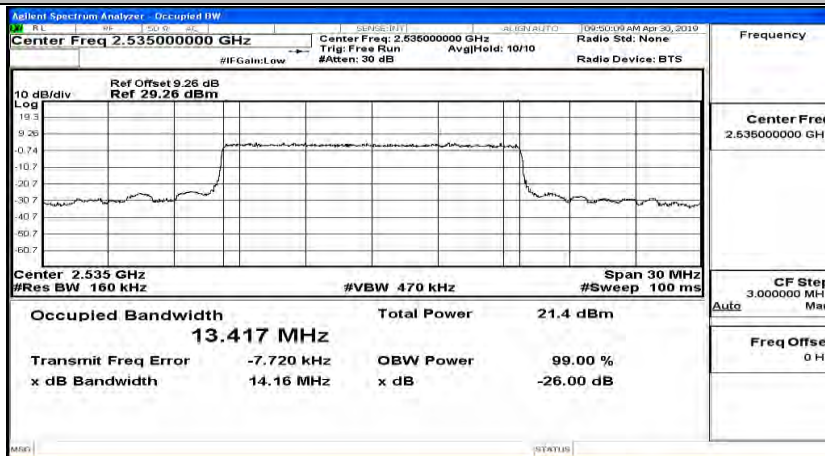
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



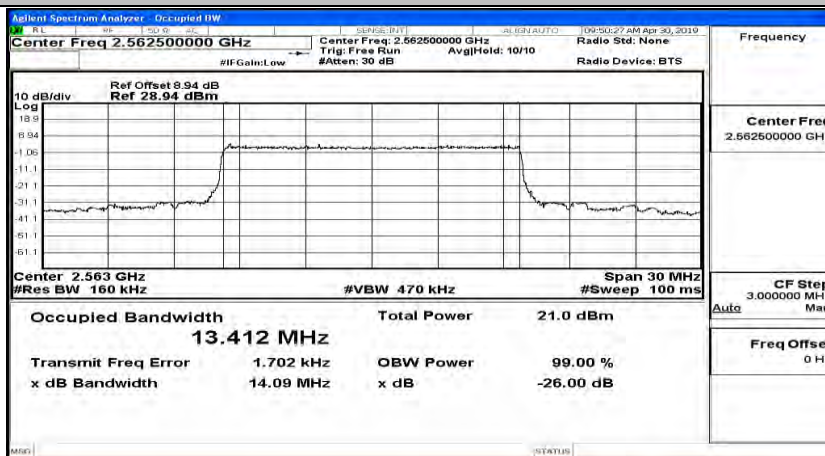
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz) LCH_QPSK



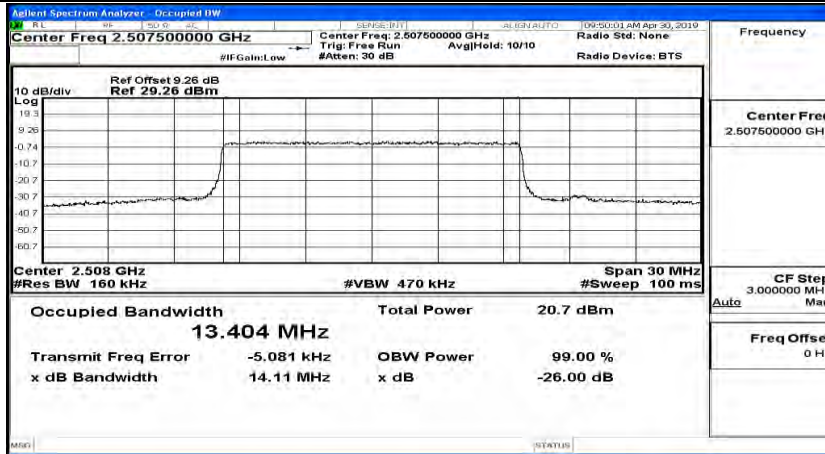
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz) MCH_QPSK



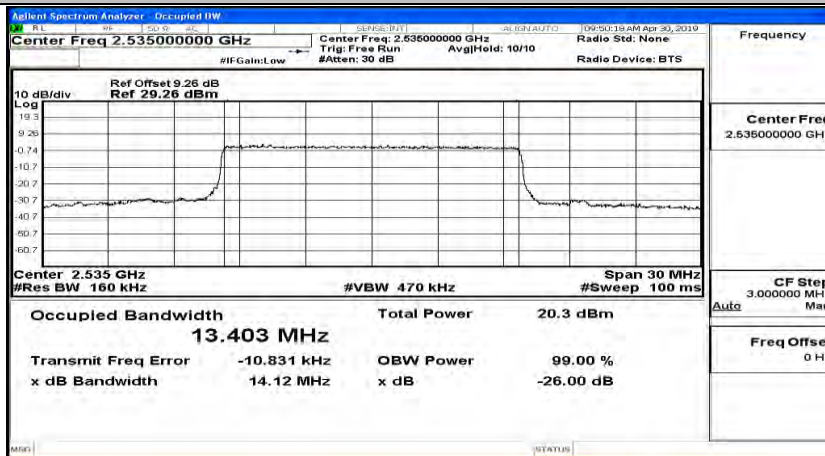
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz) HCH_QPSK



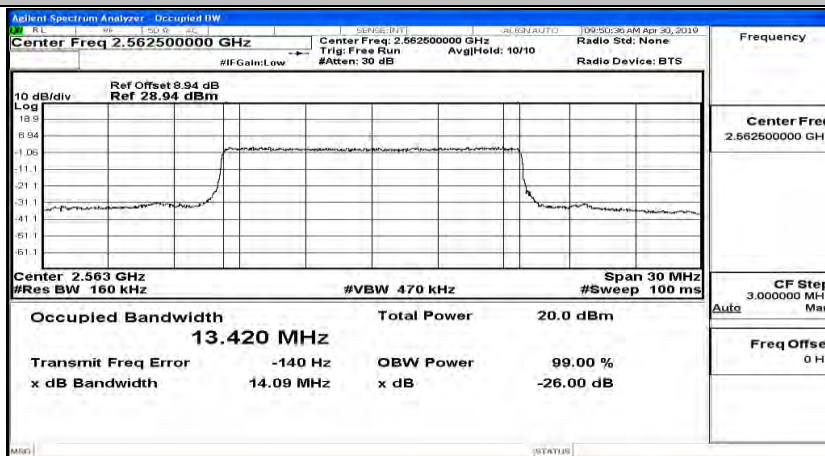
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



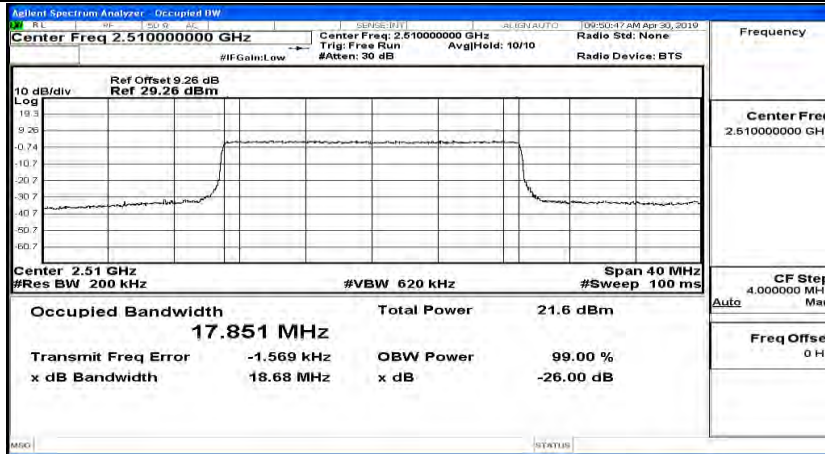
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



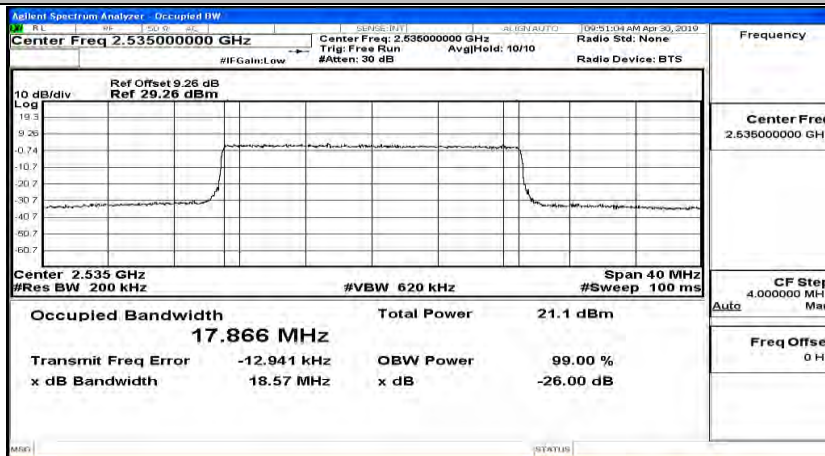
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



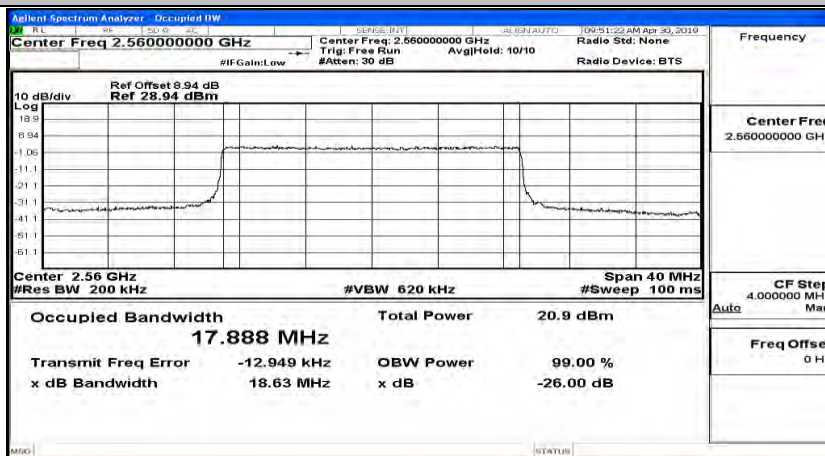
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



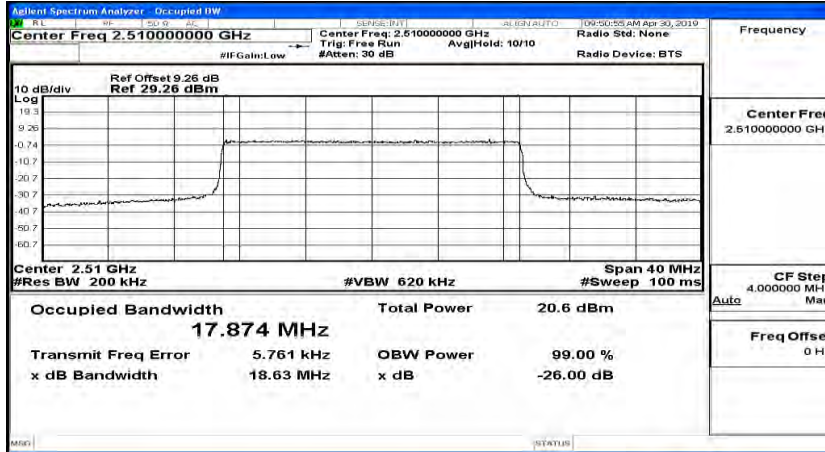
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



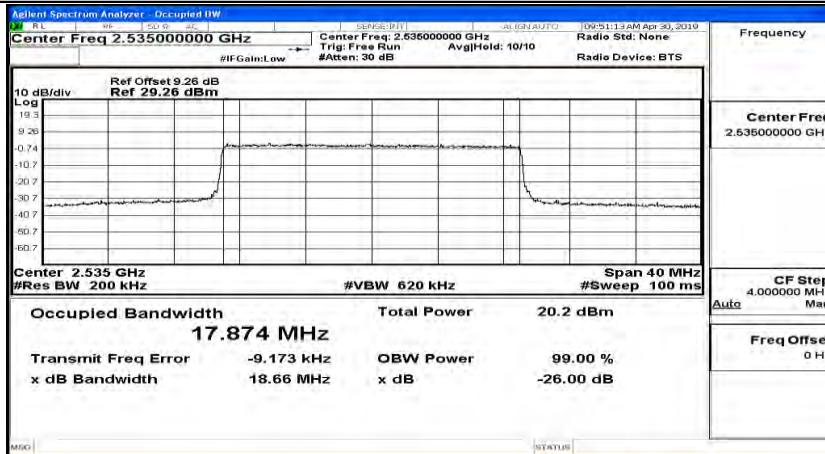
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



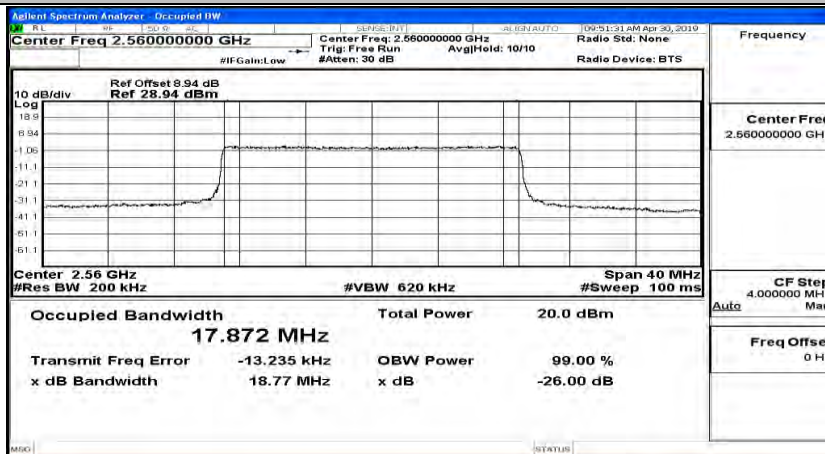
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM

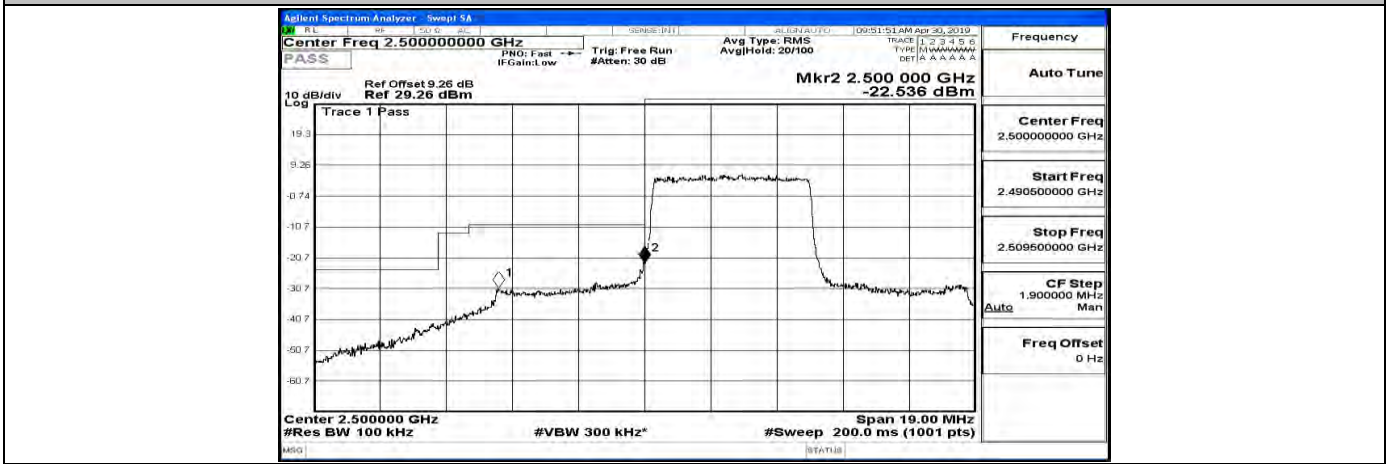


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

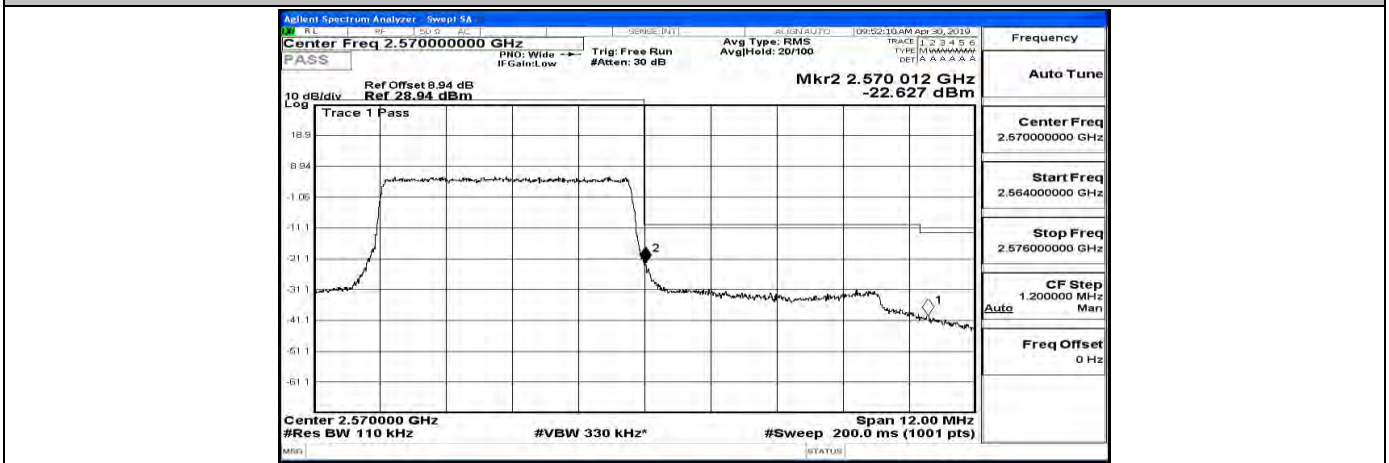


A.4 Band Edge

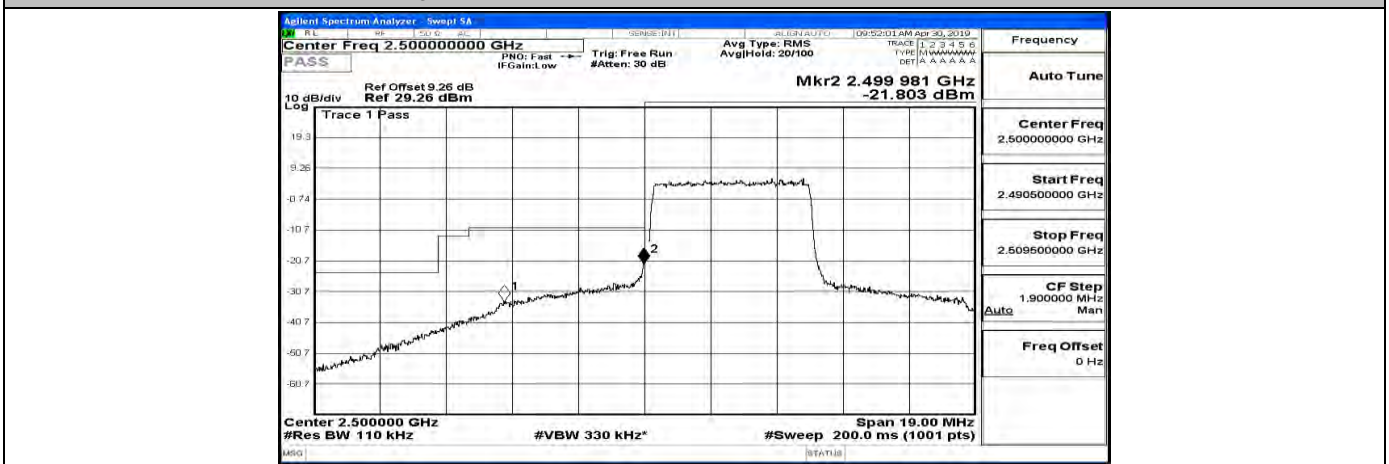
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



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



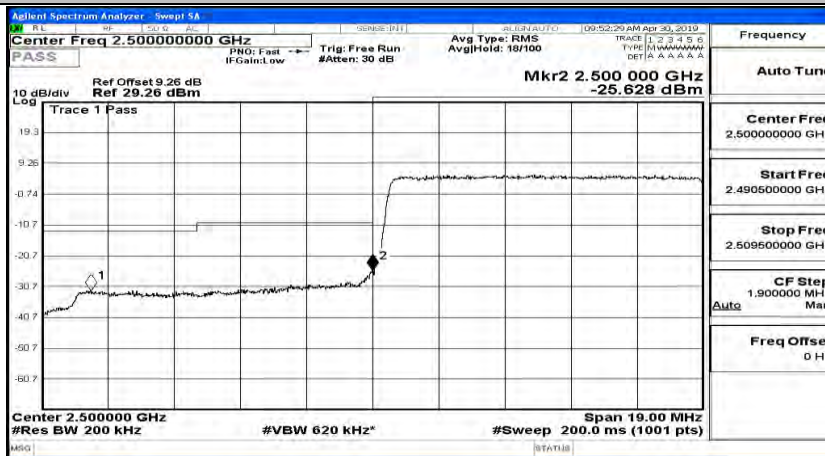
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



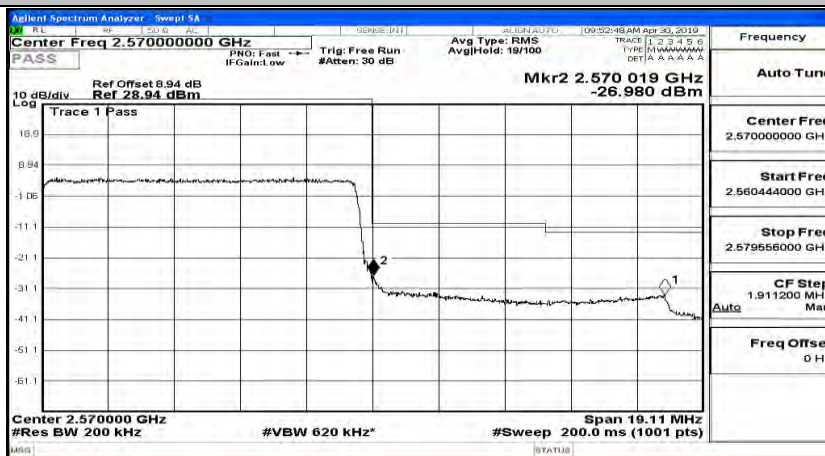
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



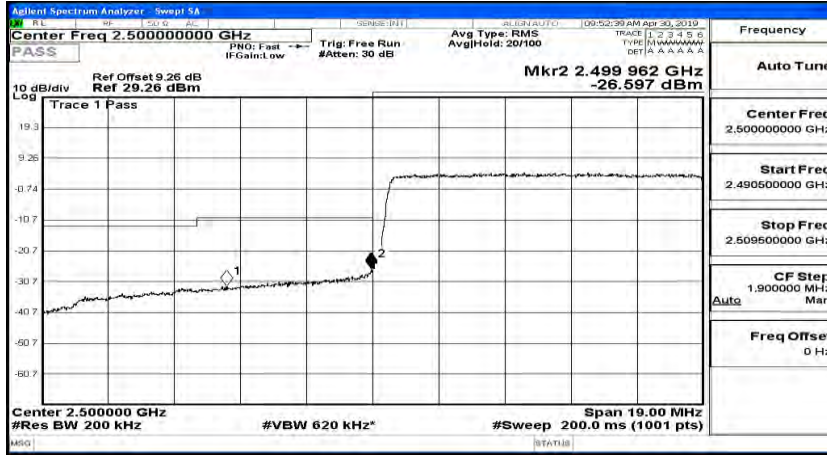
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



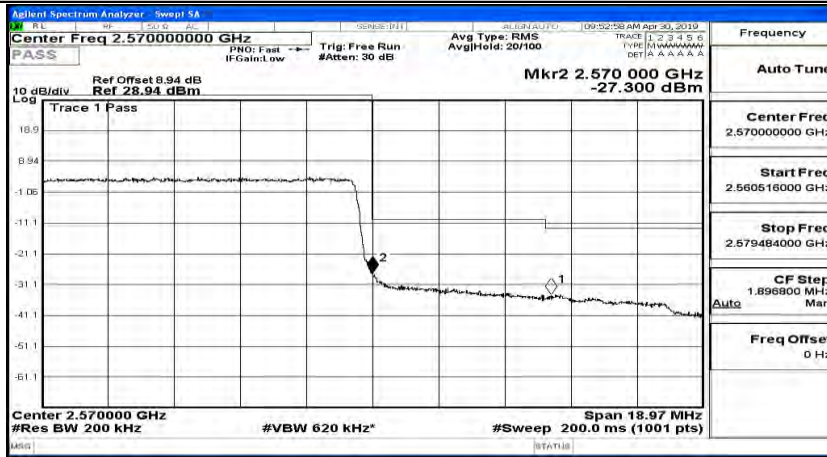
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



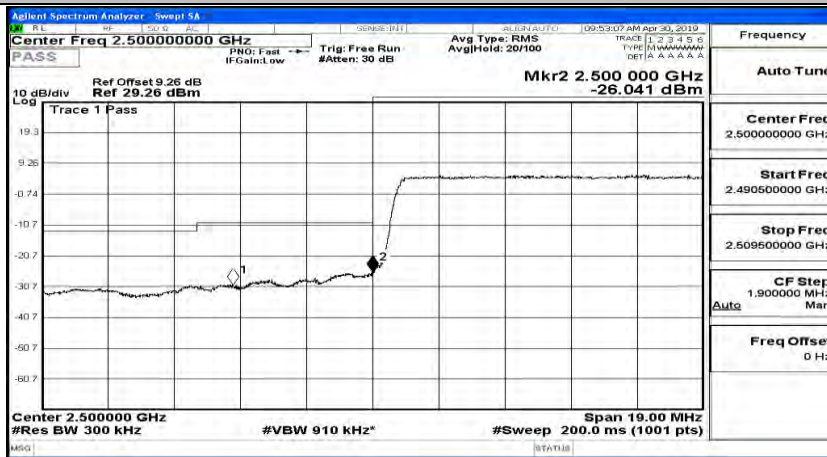
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_16QAM



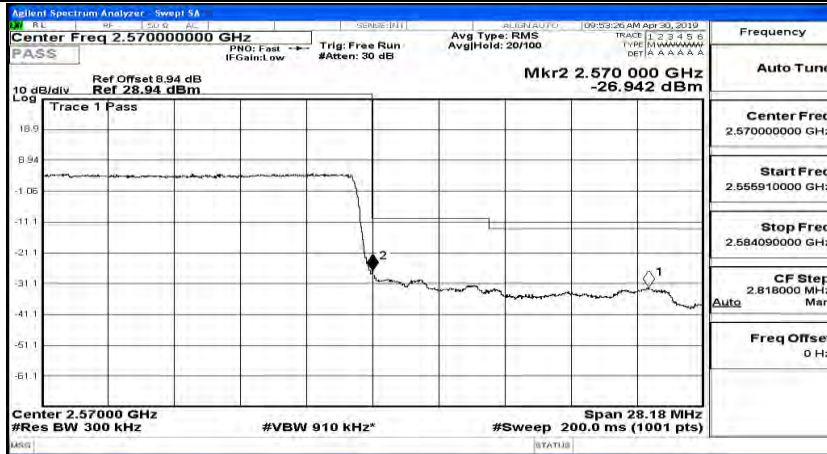
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz) HCH_16QAM



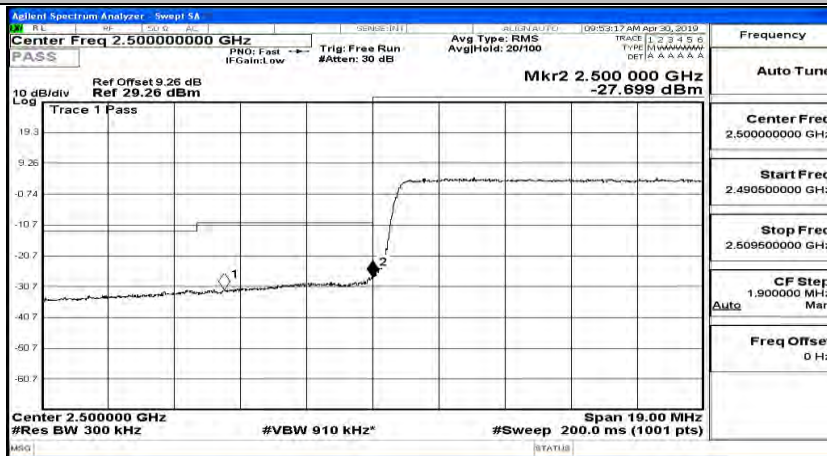
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz) LCH_QPSK



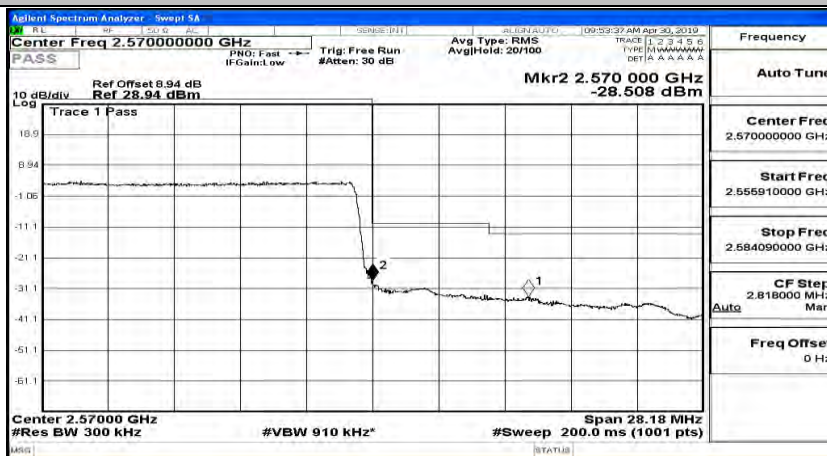
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



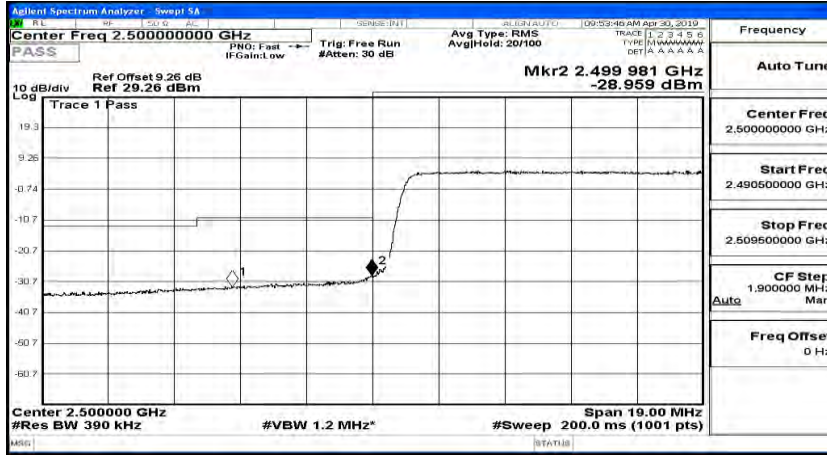
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



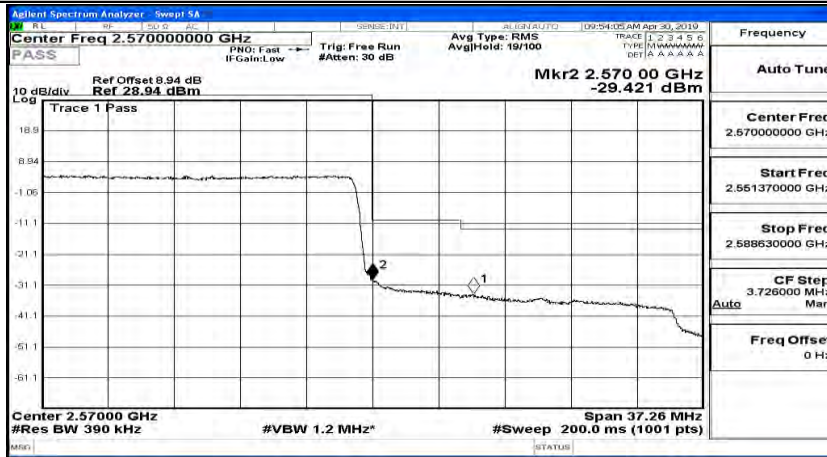
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



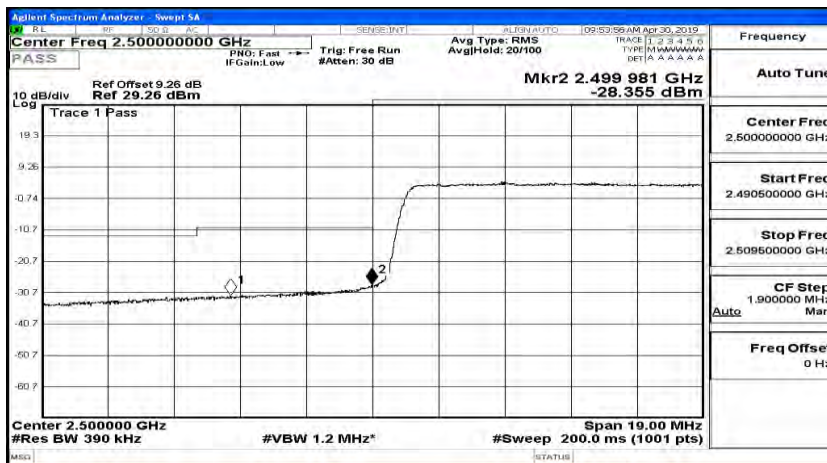
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz) LCH_QPSK



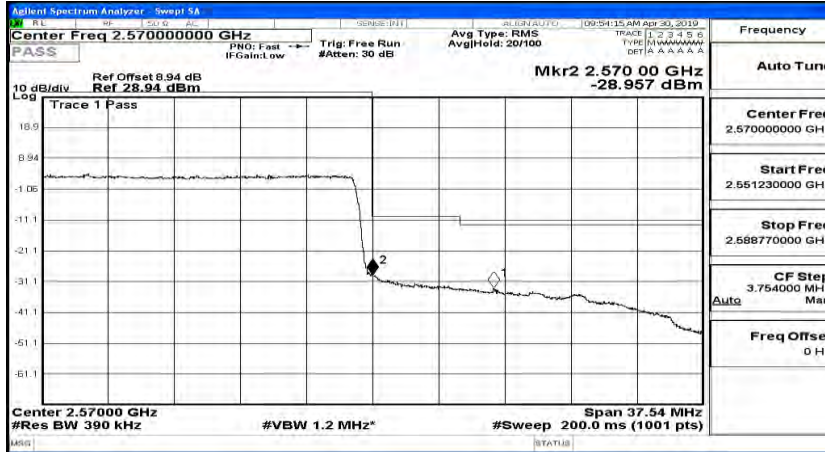
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz) HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth:20 MHz) LCH_16QAM

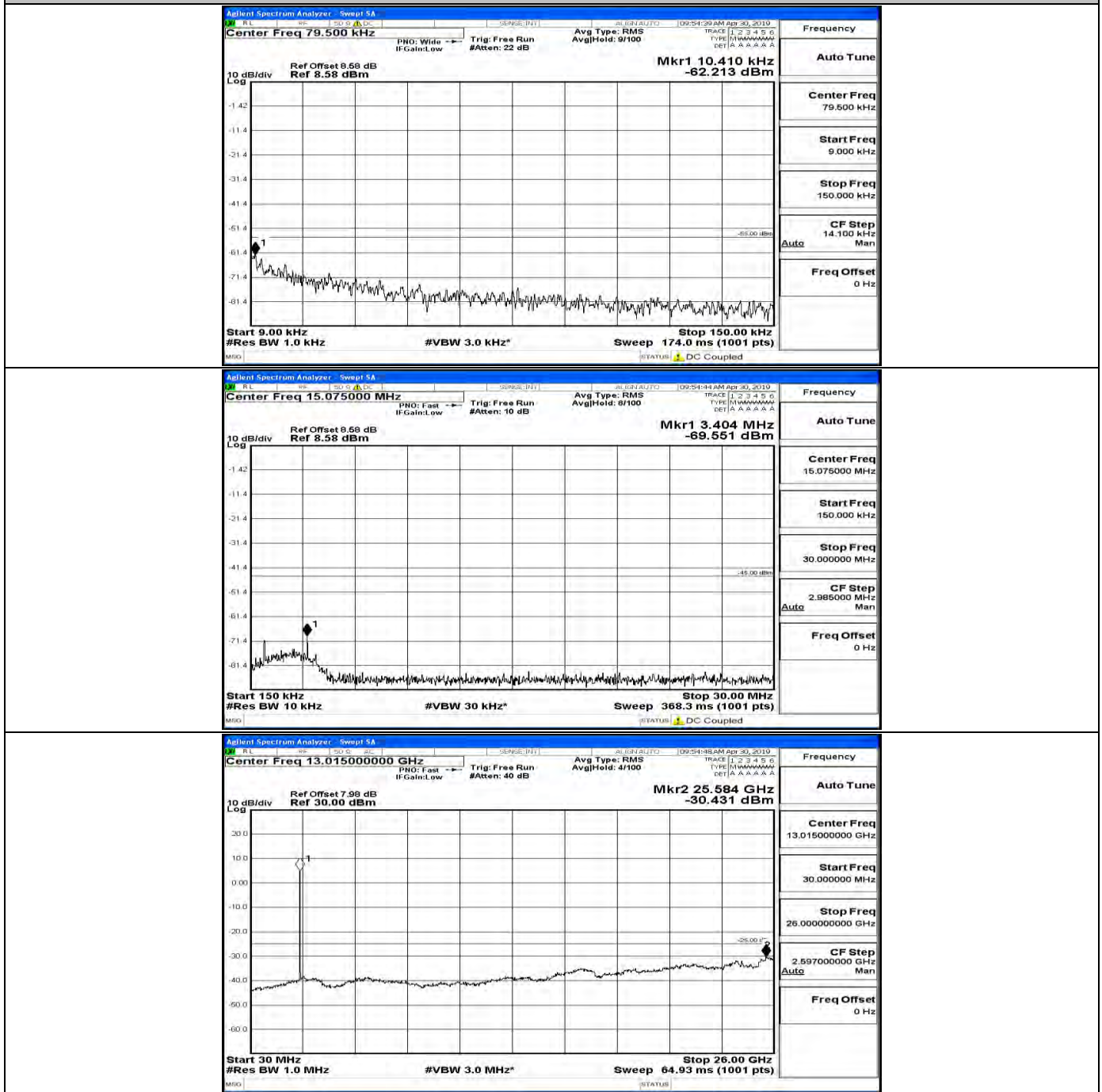


Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

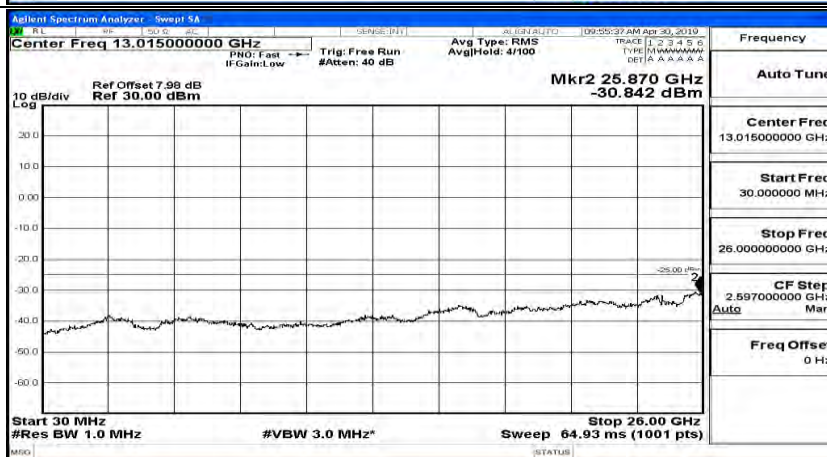
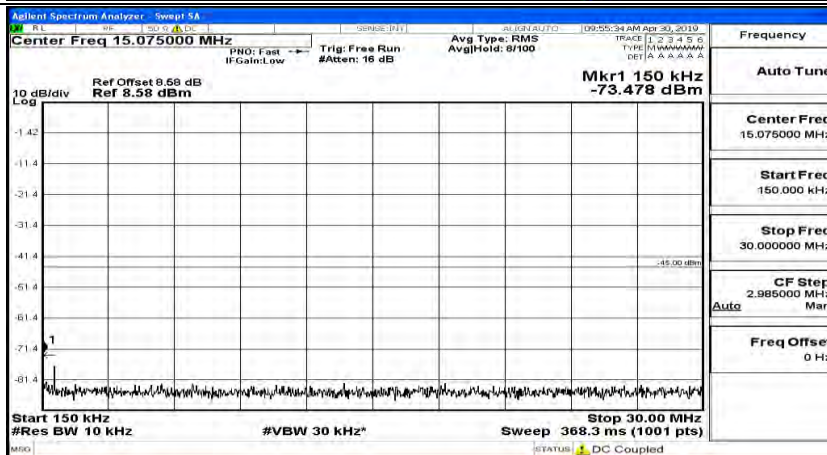
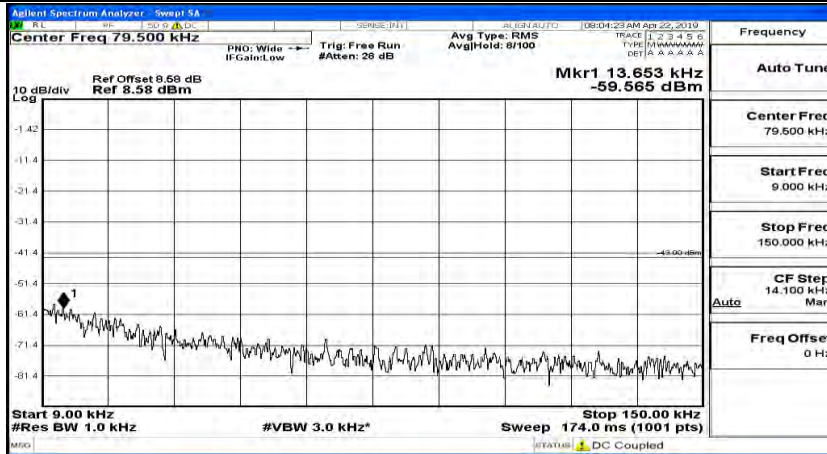


A.5 Conducted Spurious Emission

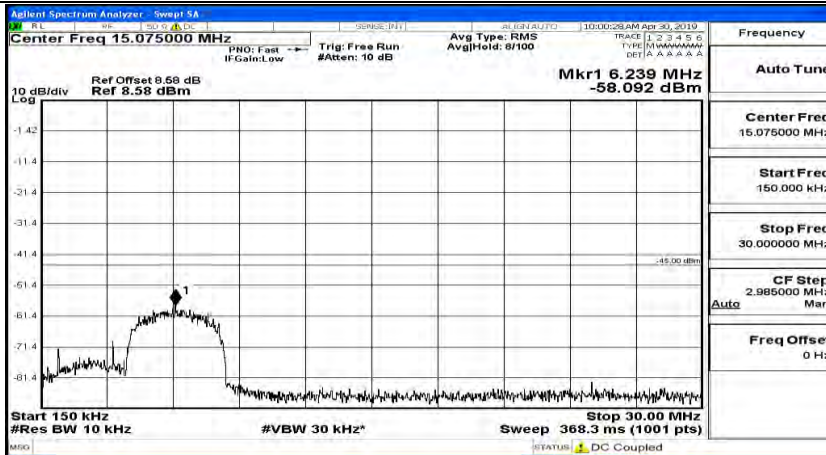
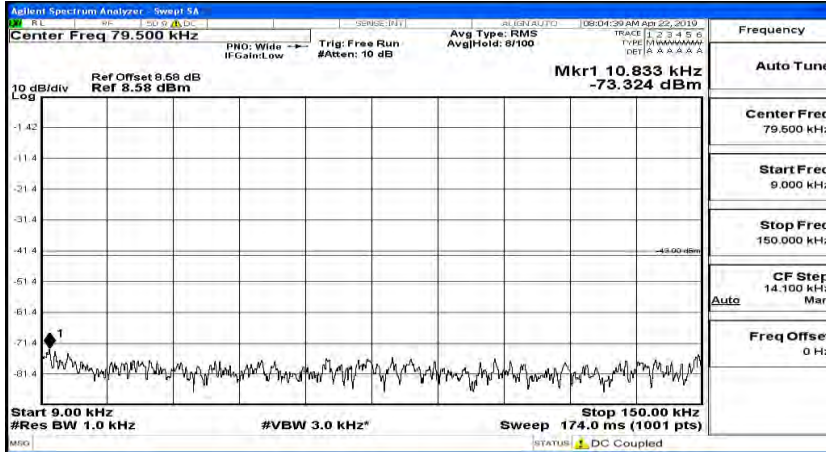
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



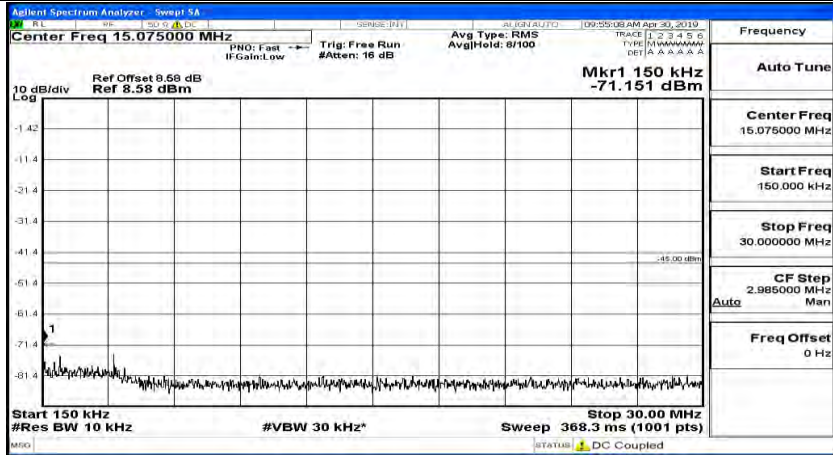
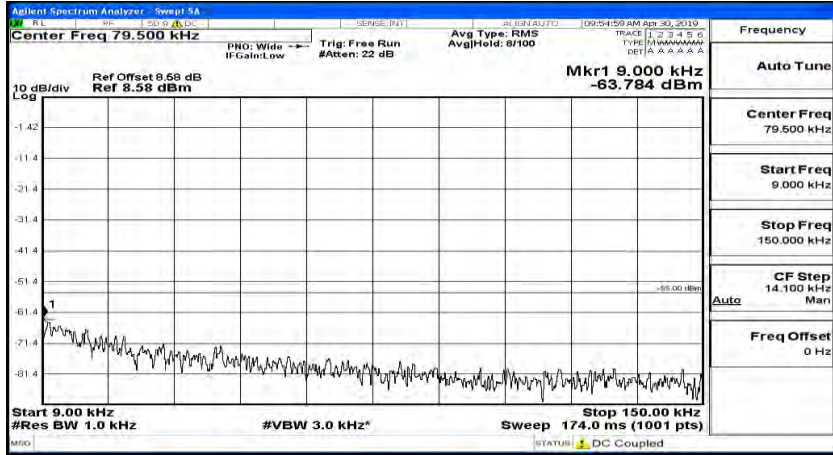
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



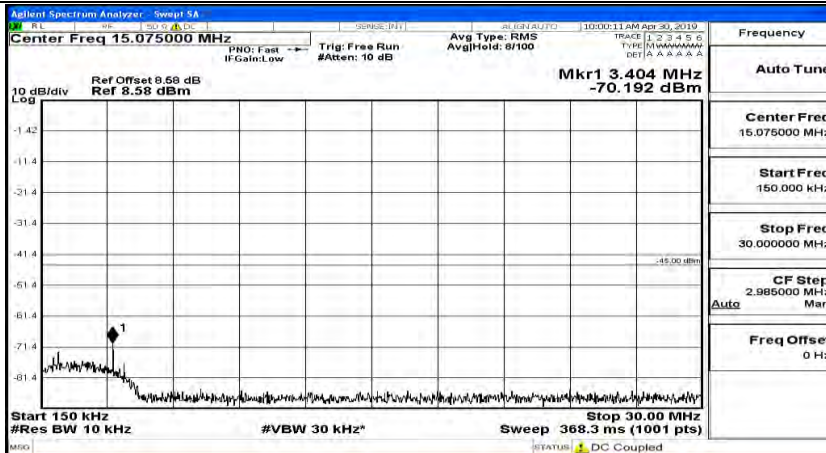
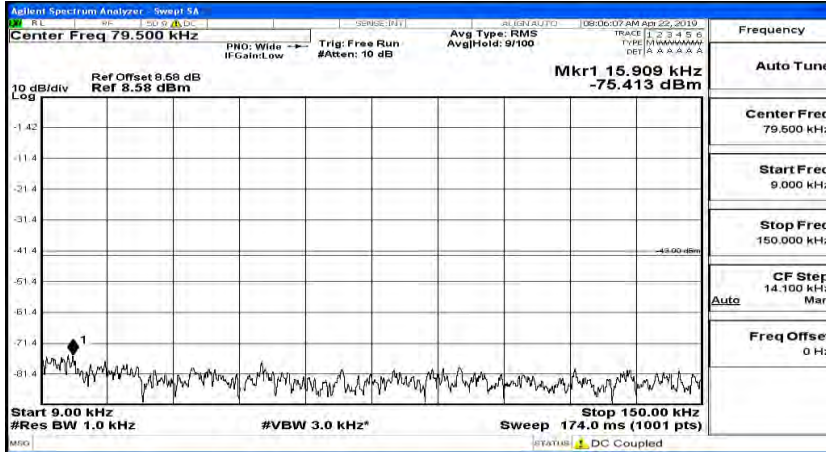
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



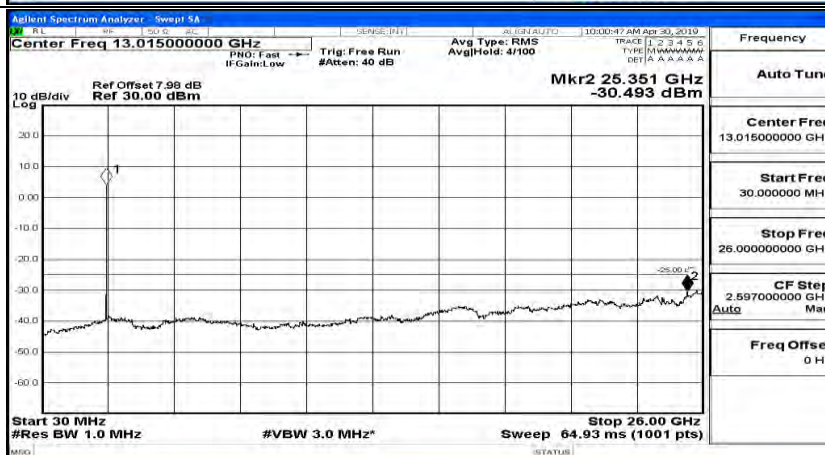
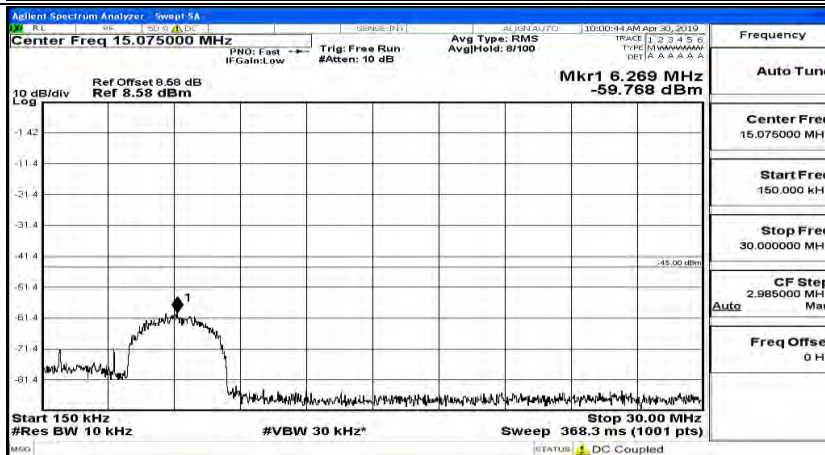
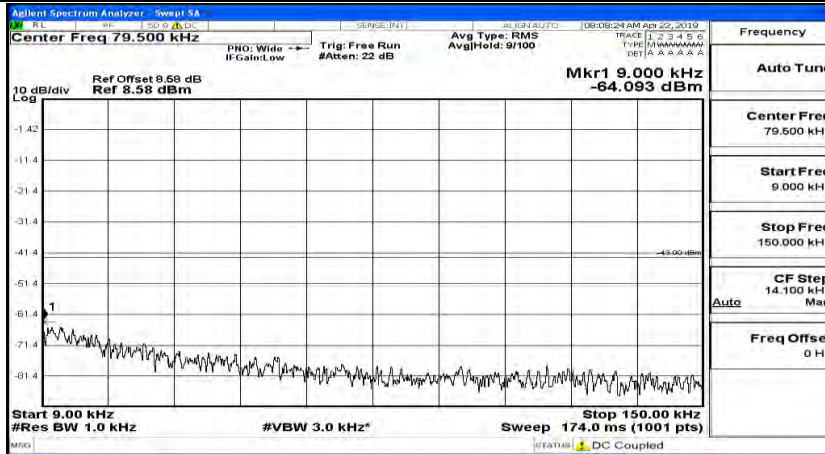
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



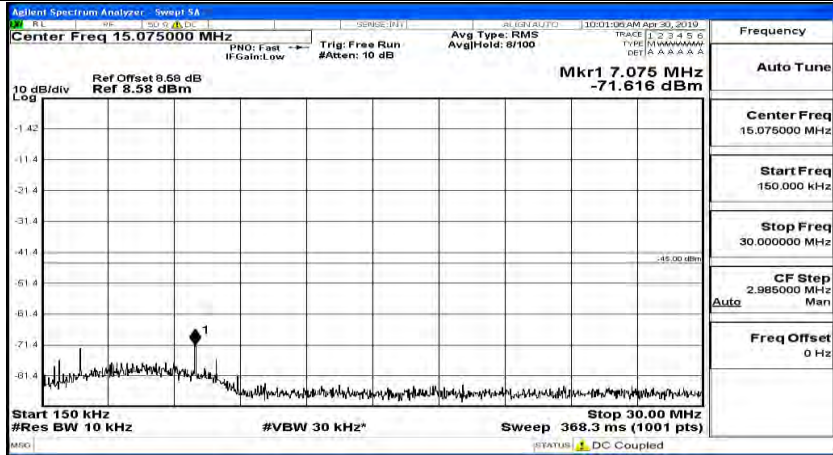
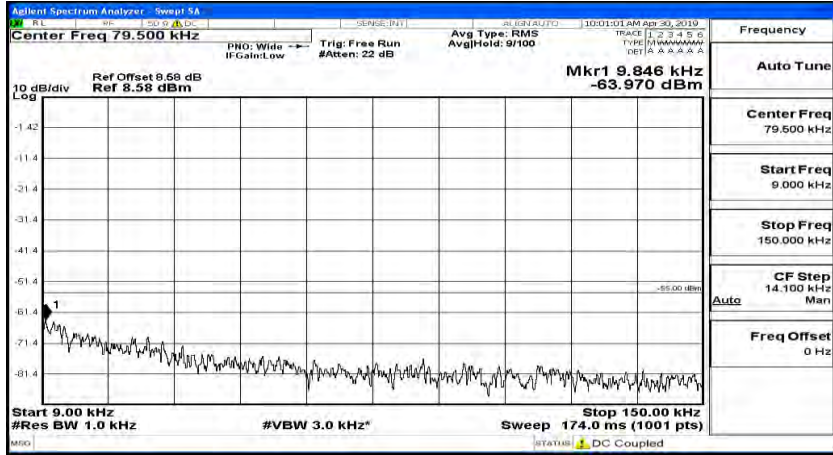
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



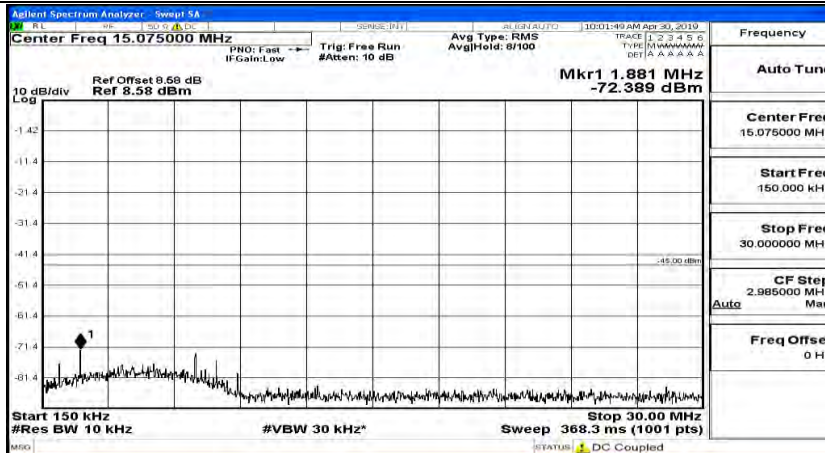
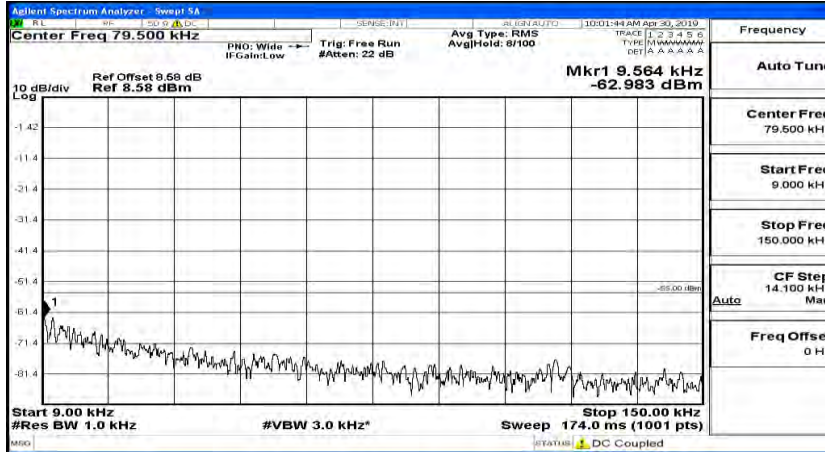
CSE Test Graph(s) (Channel Bandwidth: 5 MHz) _HCH_16QAM



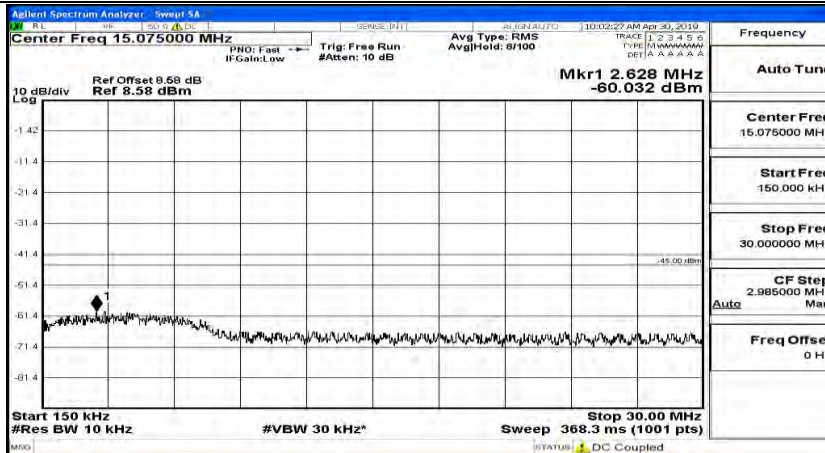
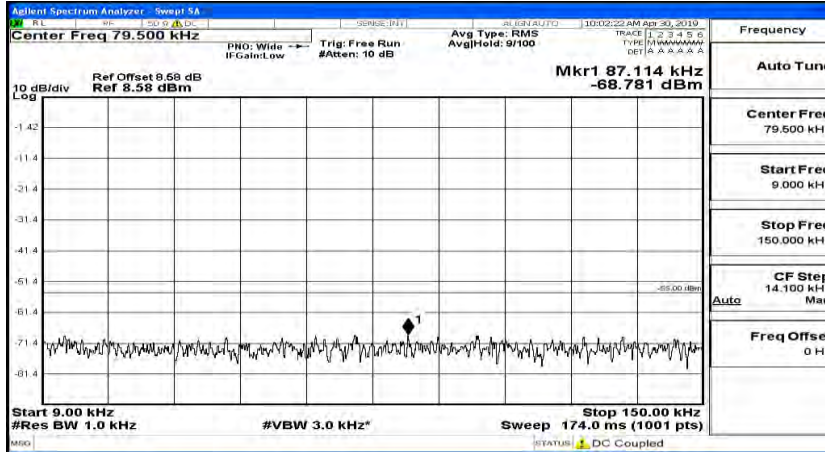
CSE Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_QPSK



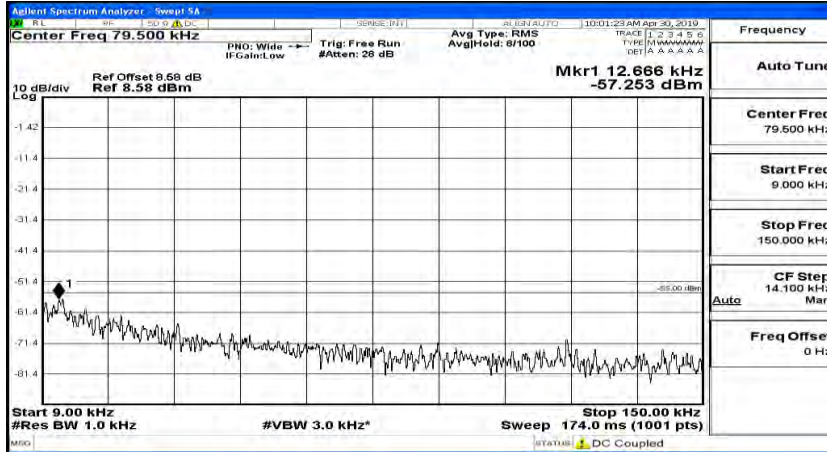
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



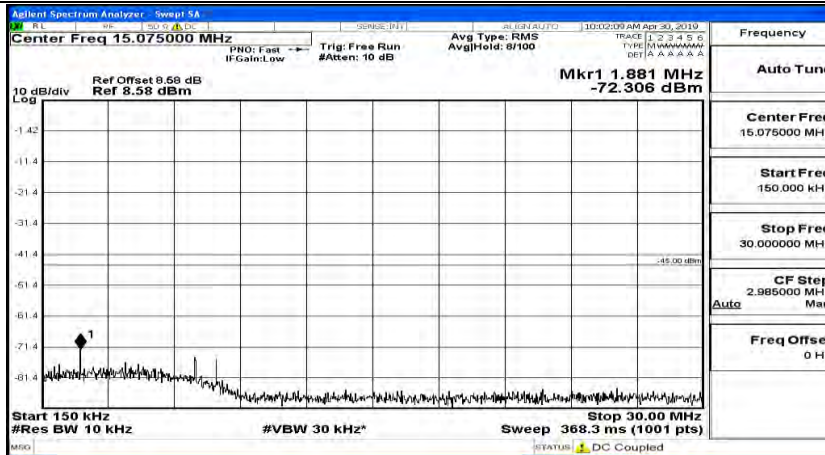
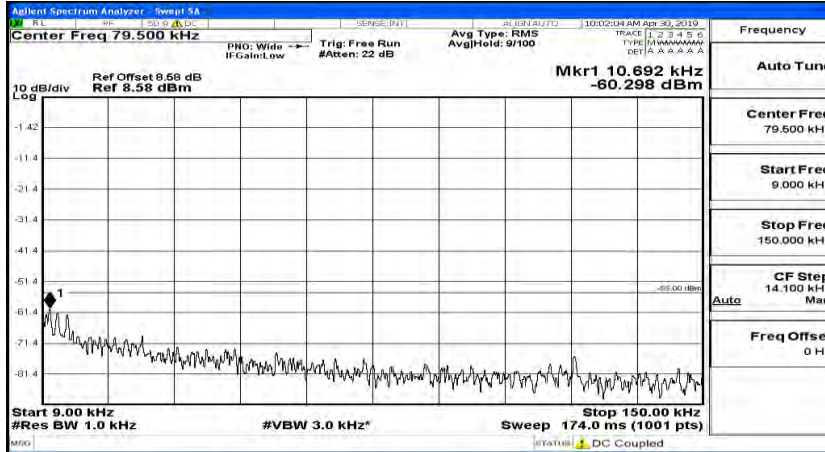
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



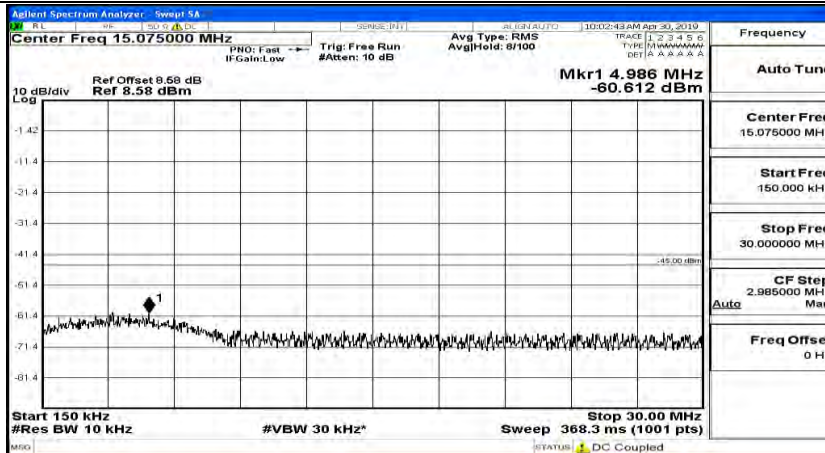
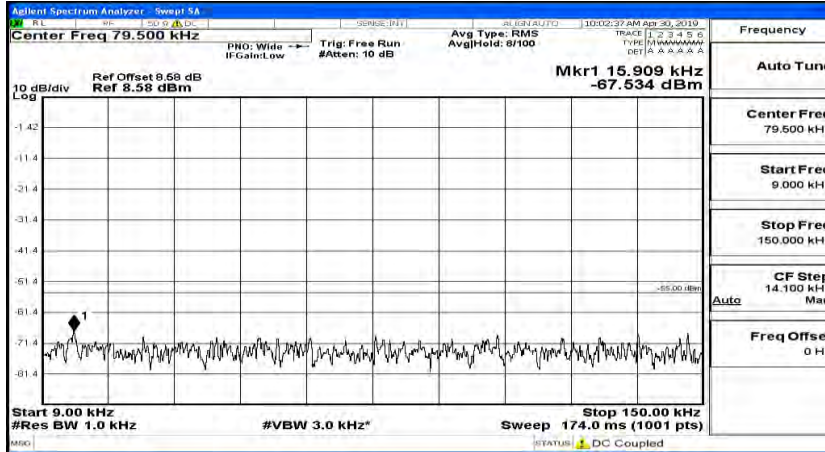
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



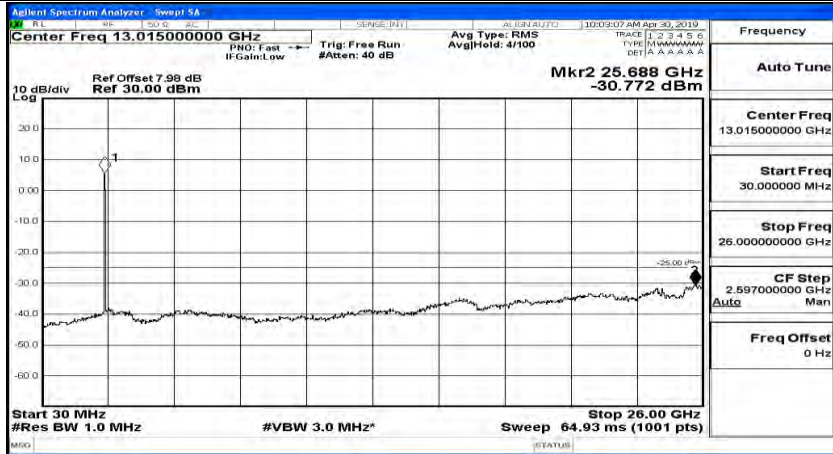
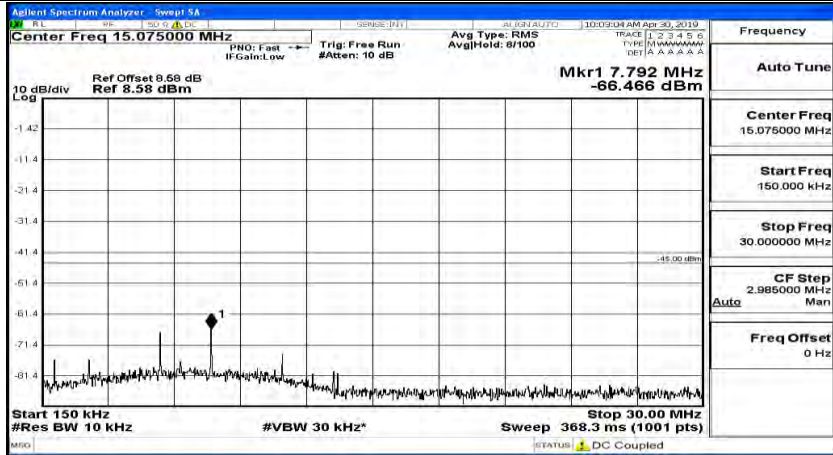
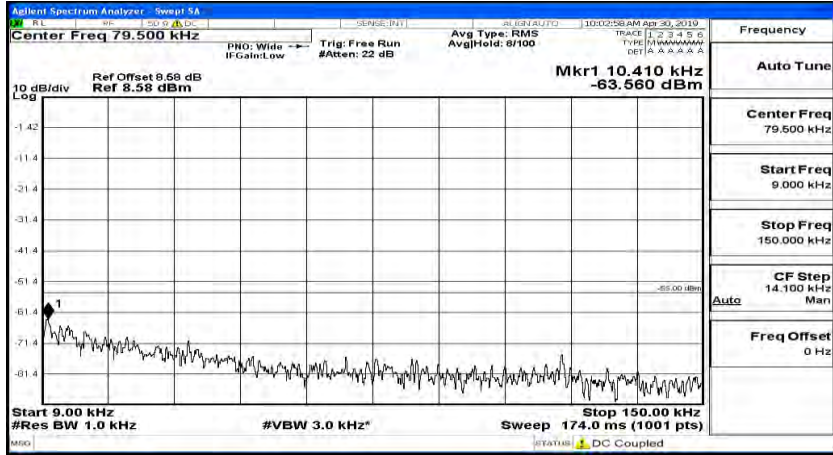
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



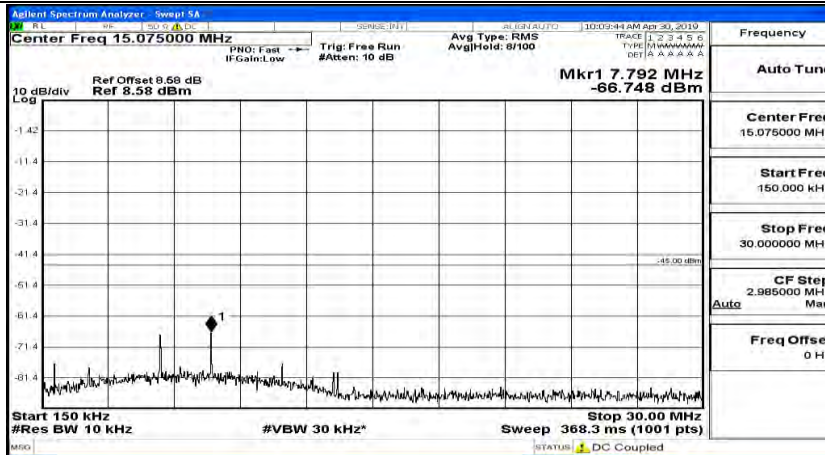
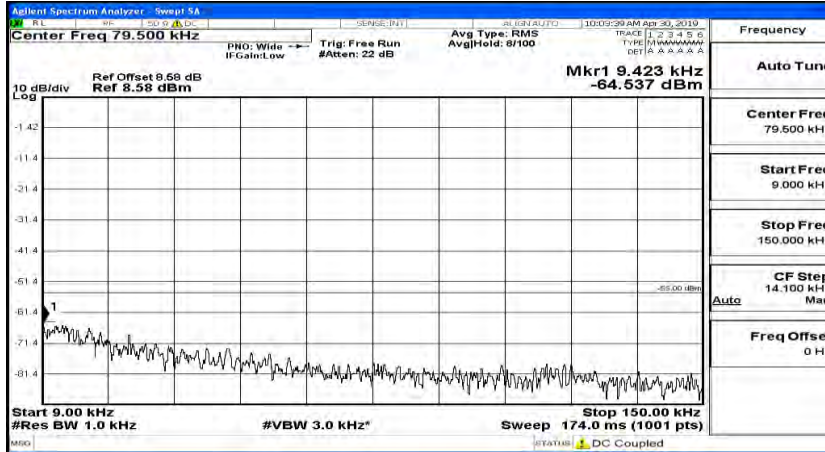
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



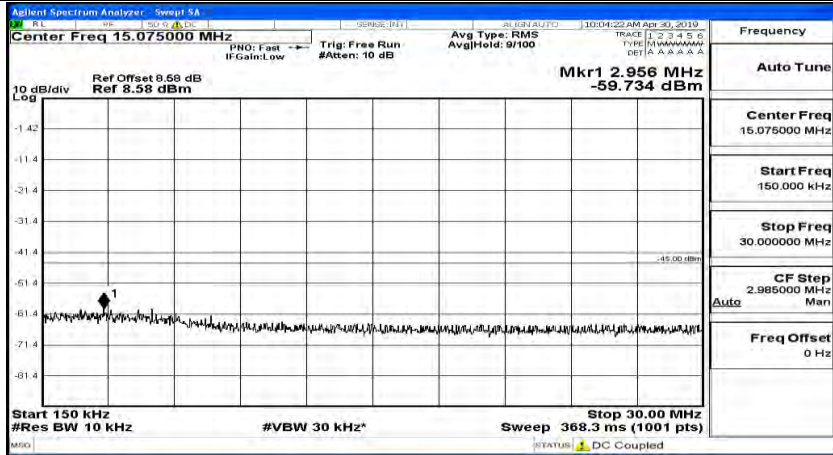
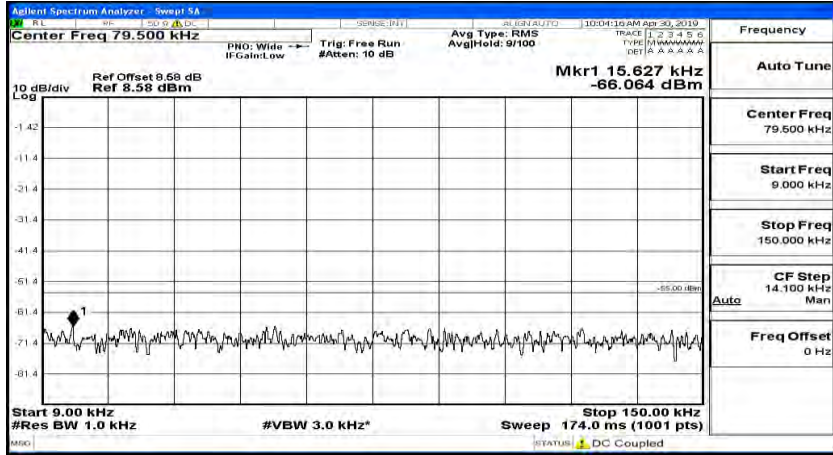
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



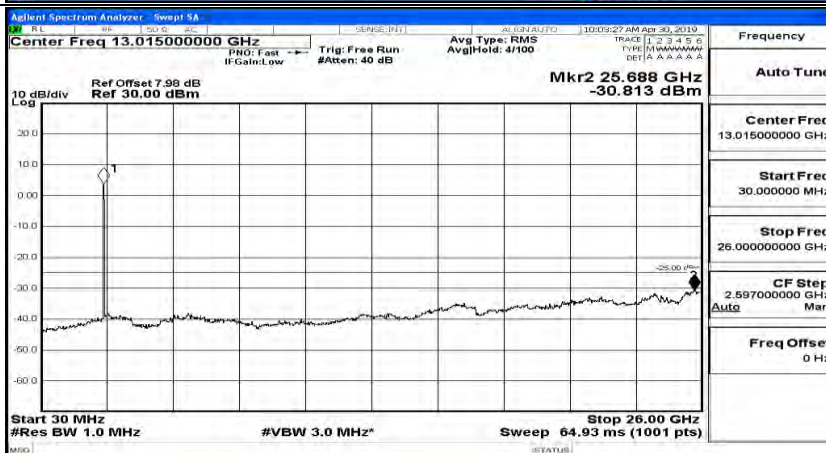
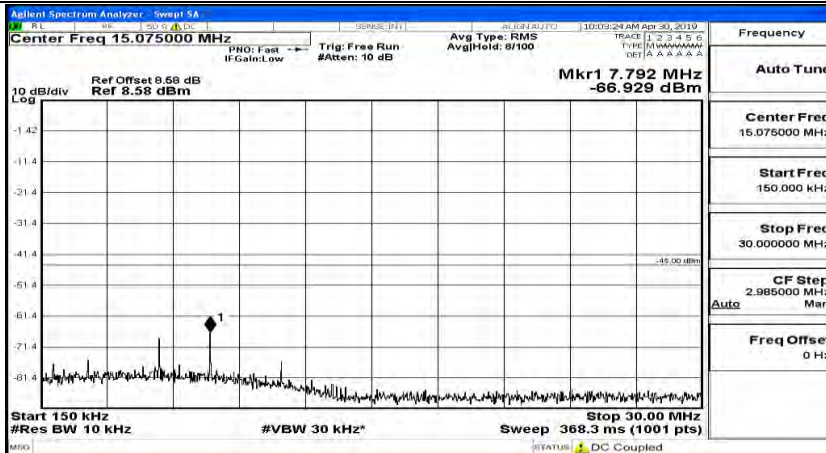
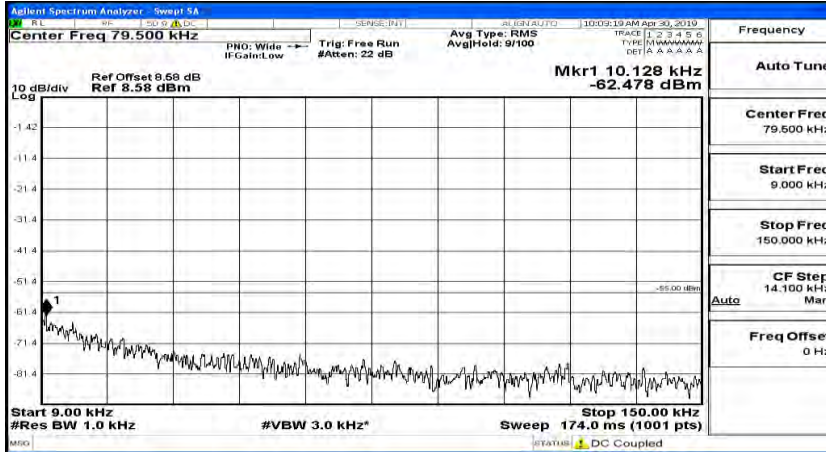
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



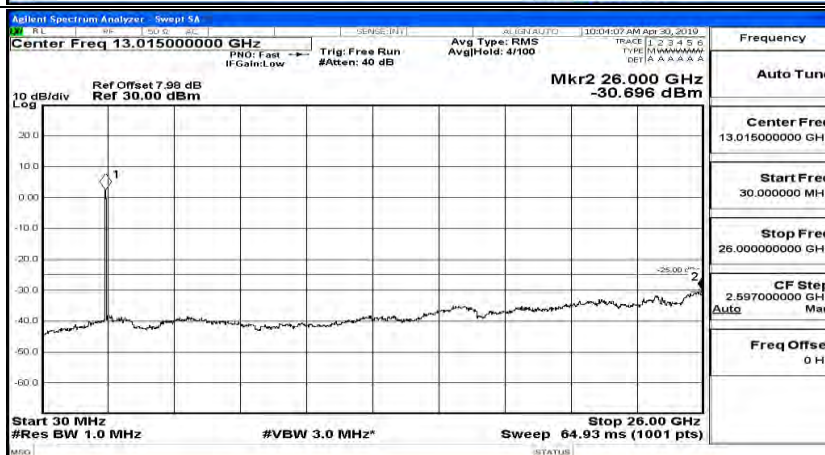
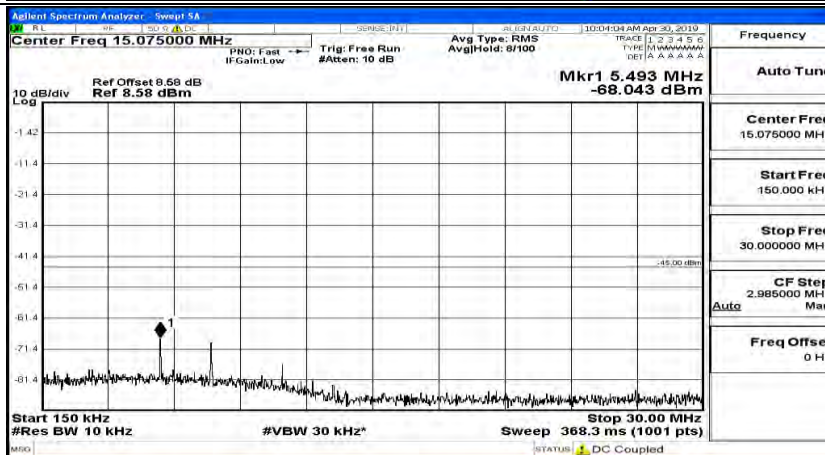
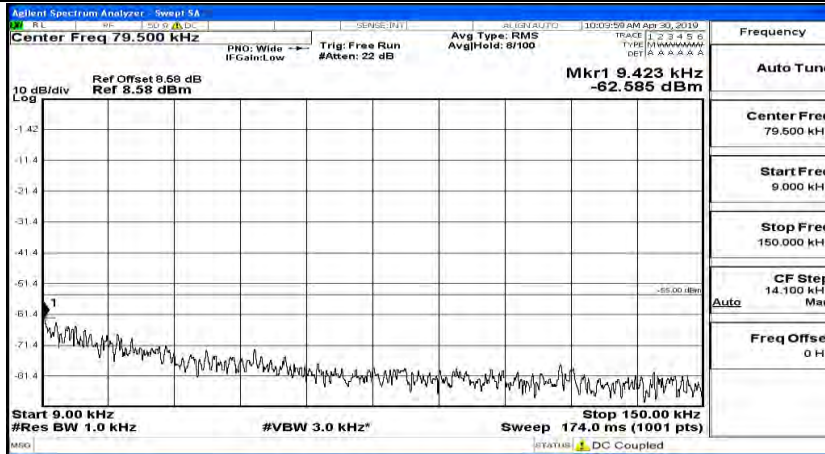
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



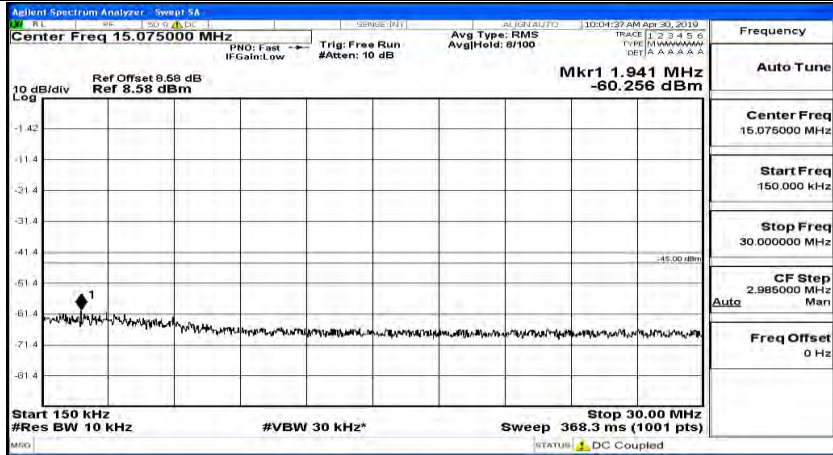
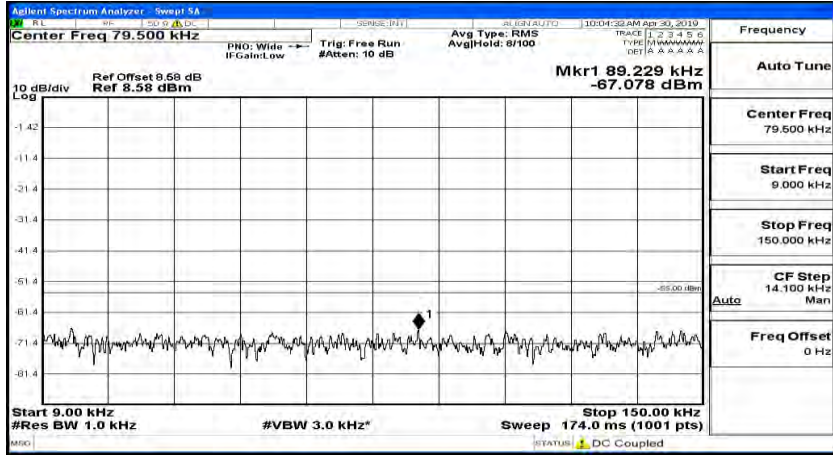
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



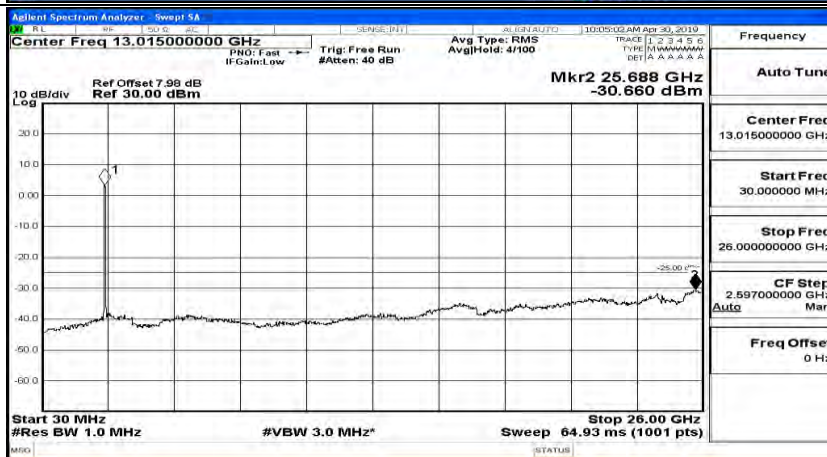
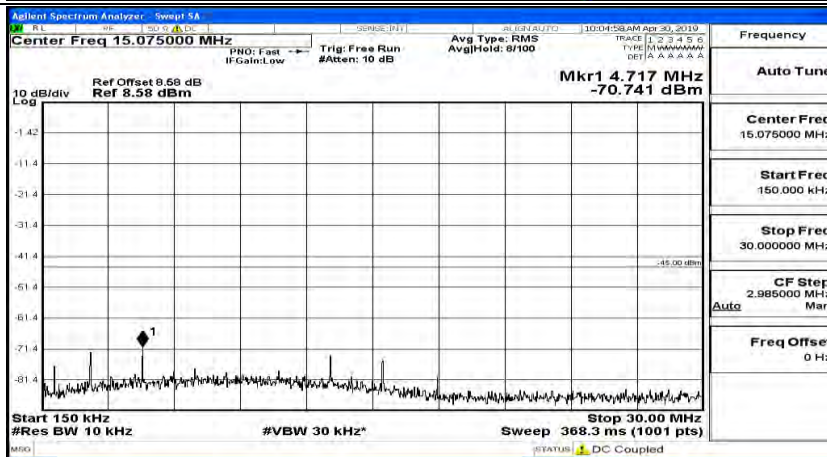
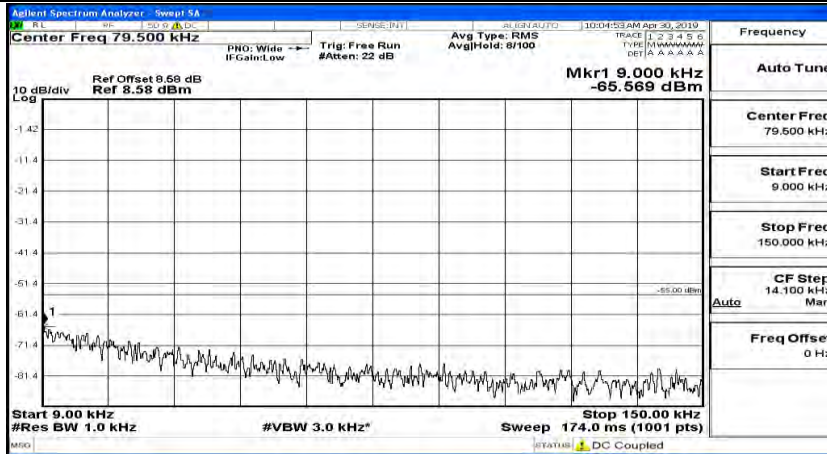
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



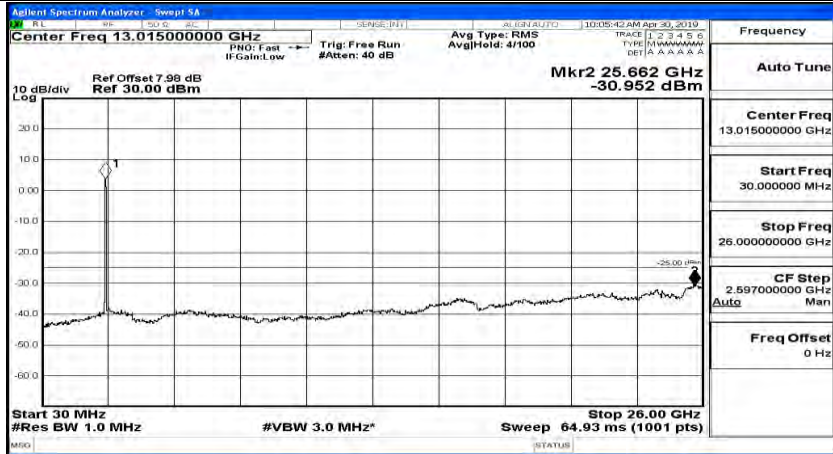
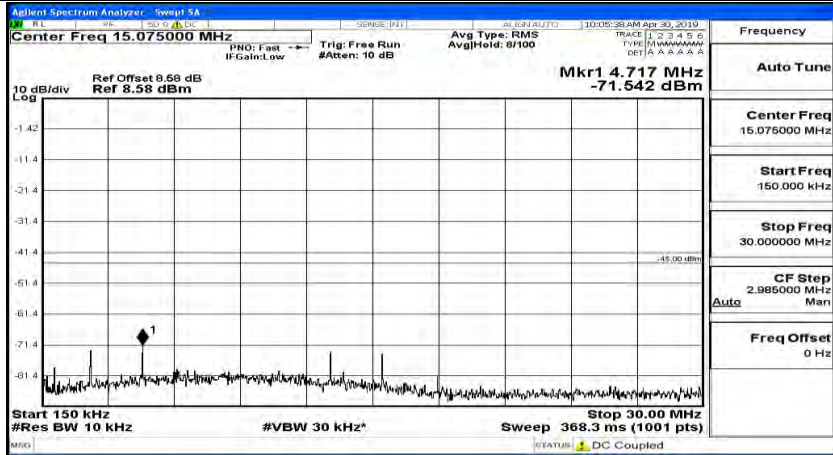
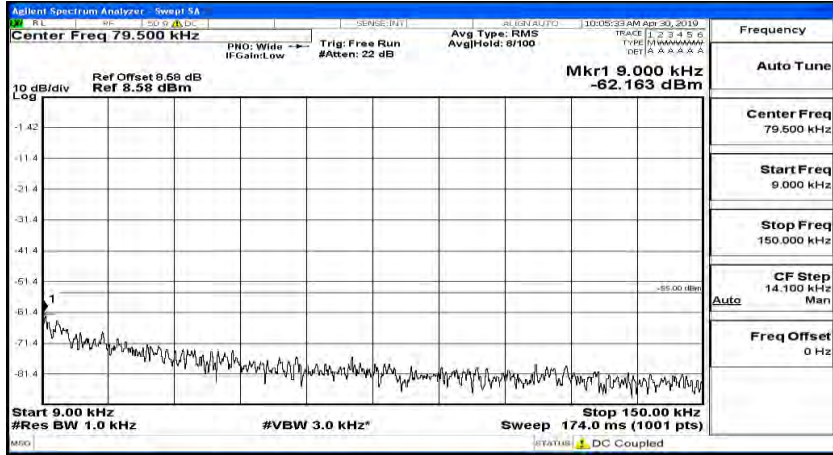
CSE Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



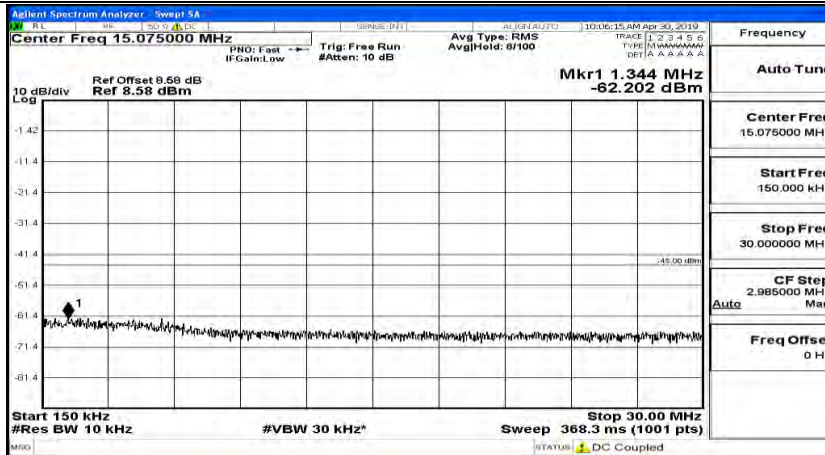
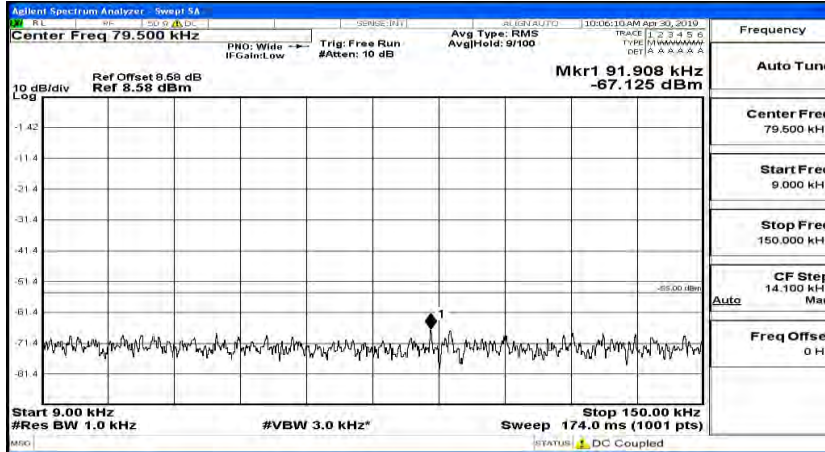
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



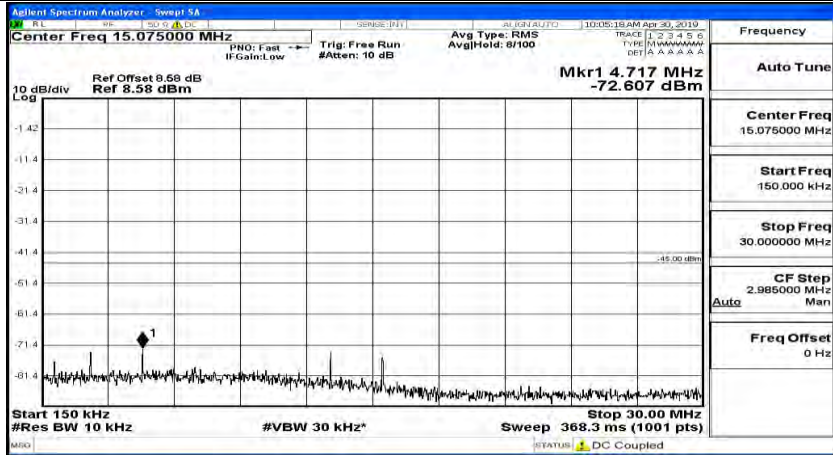
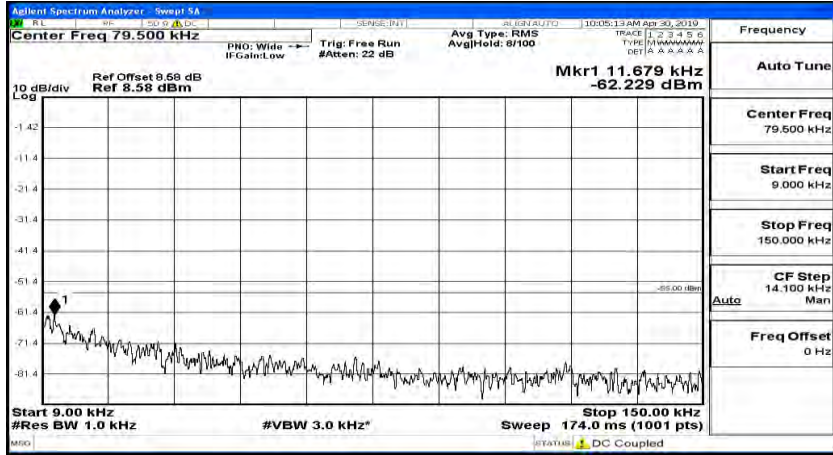
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



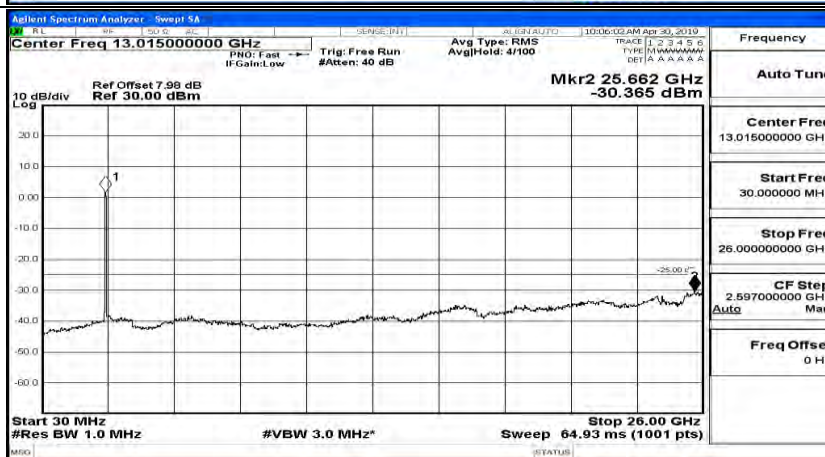
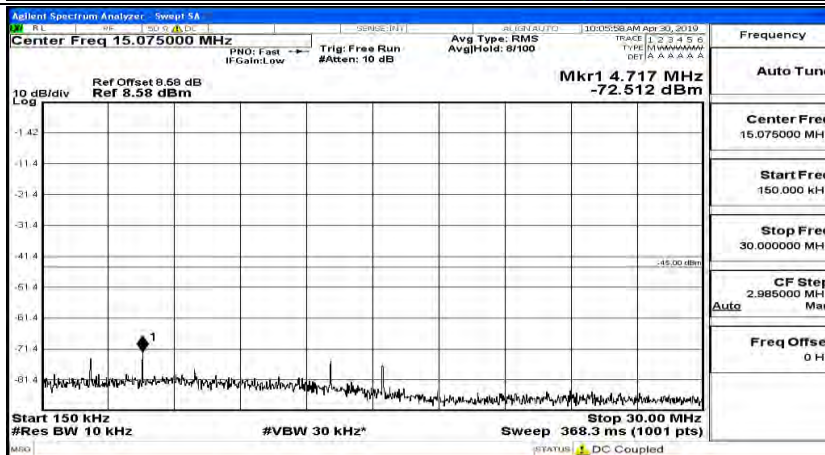
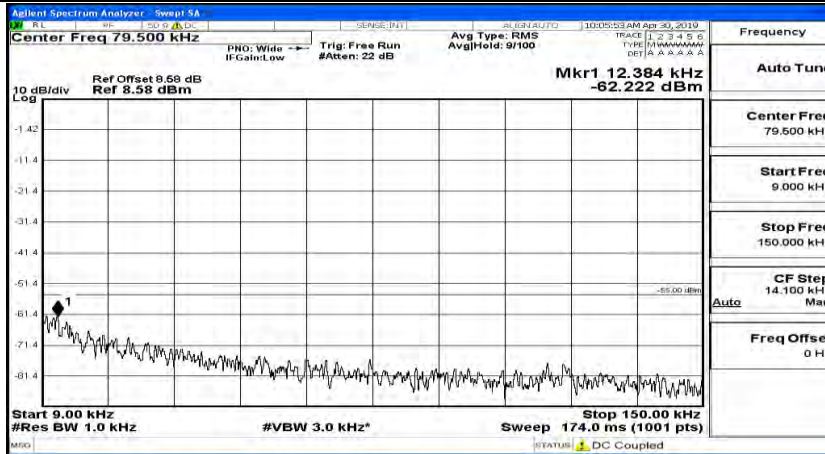
CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



CSE Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

