

Appendix D: Test Data for E-UTRA Band 5

Product Name: Smart Phone

Test Model: ELUGA RAY 800

Environmental Conditions

Temperature:	23.6°C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang Chuang
Supervised by:	Calvin Weng

D.1 Conducted Output Power

<SIM1>

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	23.80	22.90	PASS
		1	3	23.61	22.95	PASS
		1	5	23.55	22.92	PASS
		3	0	23.67	22.80	PASS
		3	2	23.76	22.86	PASS
		3	3	23.75	22.83	PASS
		6	0	22.73	21.71	PASS
	MCH	1	0	23.12	22.19	PASS
		1	3	22.93	22.42	PASS
		1	5	22.96	22.06	PASS
		3	0	22.97	21.78	PASS
		3	2	23.10	22.02	PASS
		3	3	22.99	22.15	PASS
		6	0	22.36	21.13	PASS
	HCH	1	0	23.26	22.80	PASS
		1	3	23.29	22.41	PASS
		1	5	23.20	22.37	PASS
		3	0	23.26	22.34	PASS
		3	2	23.46	22.38	PASS
		3	3	23.36	22.63	PASS
		6	0	22.52	21.45	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.66	22.94	PASS
		1	7	23.54	22.78	PASS
		1	14	23.52	22.77	PASS
		8	0	22.78	21.87	PASS
		8	4	22.68	21.79	PASS
		8	7	22.63	21.72	PASS
		15	0	22.74	21.75	PASS
	MCH	1	0	22.80	21.91	PASS
		1	7	22.76	21.79	PASS
		1	14	22.66	21.96	PASS
		8	0	22.19	21.17	PASS
		8	4	22.15	21.18	PASS
		8	7	22.27	21.05	PASS
		15	0	22.03	21.10	PASS
	HCH	1	0	23.14	22.51	PASS
		1	7	23.11	22.45	PASS
		1	14	23.51	22.32	PASS
		8	0	22.49	21.43	PASS
		8	4	22.50	21.38	PASS
		8	7	22.55	21.60	PASS
		15	0	22.30	21.45	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	23.62	22.91	PASS
		1	12	23.52	22.72	PASS
		1	24	23.50	22.74	PASS
		12	0	22.80	21.92	PASS
		12	6	22.74	21.87	PASS
		12	13	22.62	21.75	PASS
		25	0	22.70	21.73	PASS
	MCH	1	0	22.96	22.46	PASS
		1	12	22.47	21.82	PASS
		1	24	22.17	21.61	PASS
		12	0	22.08	21.26	PASS
		12	6	22.19	21.16	PASS
		12	13	22.07	21.07	PASS
		25	0	22.11	21.06	PASS
	HCH	1	0	23.31	22.17	PASS
		1	12	23.49	22.45	PASS
		1	24	23.20	21.62	PASS
		12	0	22.28	21.30	PASS
		12	6	22.46	21.52	PASS
		12	13	22.50	21.41	PASS
		25	0	22.61	21.48	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	23.76	22.94	PASS
		1	24	23.60	22.75	PASS
		1	49	23.55	22.90	PASS
		25	0	22.87	21.86	PASS
		25	12	22.69	21.50	PASS
		25	25	22.54	21.57	PASS
		50	0	22.71	21.74	PASS
	MCH	1	0	23.38	22.63	PASS
		1	24	22.69	22.35	PASS
		1	49	22.00	21.07	PASS
		25	0	22.08	21.24	PASS
		25	12	22.11	21.08	PASS
		25	25	22.08	21.02	PASS
		50	0	22.39	21.34	PASS
	HCH	1	0	23.22	22.49	PASS
		1	24	23.62	22.86	PASS
		1	49	22.77	22.18	PASS
		25	0	22.17	21.28	PASS
		25	12	22.34	21.38	PASS
		25	25	22.46	21.49	PASS
		50	0	22.40	21.42	PASS

<SIM2>

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.85	22.73	PASS
		1	3	23.64	22.74	PASS
		1	5	23.57	22.69	PASS
		3	0	23.63	22.59	PASS
		3	2	23.73	22.61	PASS
		3	3	23.79	22.59	PASS
		6	0	22.75	21.54	PASS
	MCH	1	0	23.14	22.02	PASS
		1	3	22.95	22.19	PASS
		1	5	22.93	21.81	PASS
		3	0	23.00	21.59	PASS
		3	2	23.15	21.81	PASS
		3	3	23.01	21.97	PASS
		6	0	22.70	21.17	PASS
	HCH	1	0	23.24	22.59	PASS
		1	3	23.31	22.21	PASS
		1	5	23.18	22.15	PASS
		3	0	23.21	22.17	PASS
		3	2	23.42	22.17	PASS
		3	3	23.37	22.45	PASS
		6	0	22.47	21.26	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.69	22.71	PASS
		1	7	23.53	22.59	PASS
		1	14	23.54	22.61	PASS
		8	0	22.79	21.62	PASS
		8	4	22.64	21.57	PASS
		8	7	22.60	21.51	PASS
		15	0	22.72	21.56	PASS
	MCH	1	0	22.78	21.66	PASS
		1	7	22.75	21.63	PASS
		1	14	22.71	21.71	PASS
		8	0	22.10	21.06	PASS
		8	4	22.06	21.02	PASS
		8	7	22.15	21.09	PASS
		15	0	22.24	21.15	PASS
	HCH	1	0	23.14	22.28	PASS
		1	7	23.15	22.28	PASS
		1	14	23.48	22.09	PASS
		8	0	22.51	21.22	PASS
		8	4	22.49	21.22	PASS
		8	7	22.55	21.43	PASS
		15	0	22.26	21.27	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	23.62	22.67	PASS
		1	12	23.53	22.55	PASS
		1	24	23.47	22.49	PASS
		12	0	22.76	21.72	PASS
		12	6	22.72	21.68	PASS
		12	13	22.58	21.51	PASS
		25	0	22.69	21.51	PASS
	MCH	1	0	22.94	22.28	PASS
		1	12	22.43	21.63	PASS
		1	24	22.21	21.38	PASS
		12	0	22.10	21.02	PASS
		12	6	22.33	21.05	PASS
		12	13	22.34	21.08	PASS
		25	0	22.33	21.02	PASS
	HCH	1	0	23.34	21.95	PASS
		1	12	23.49	22.24	PASS
		1	24	23.17	21.44	PASS
		12	0	22.24	21.05	PASS
		12	6	22.51	21.33	PASS
		12	13	22.48	21.24	PASS
		25	0	22.61	21.24	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	23.77	22.69	PASS
		1	24	23.61	22.54	PASS
		1	49	23.56	22.73	PASS
		25	0	22.85	21.61	PASS
		25	12	22.72	21.31	PASS
		25	25	22.56	21.36	PASS
		50	0	22.74	21.53	PASS
	MCH	1	0	23.43	22.40	PASS
		1	24	22.67	22.11	PASS
		1	49	22.41	21.15	PASS
		25	0	22.12	21.08	PASS
		25	12	22.35	21.04	PASS
		25	25	22.40	21.08	PASS
		50	0	22.36	21.11	PASS
	HCH	1	0	23.22	22.26	PASS
		1	24	23.63	22.61	PASS
		1	49	22.74	21.96	PASS
		25	0	22.19	21.06	PASS
		25	12	22.30	21.20	PASS
		25	25	22.46	21.29	PASS
		50	0	22.43	21.17	PASS

D.2 Peak-to-Average Ratio

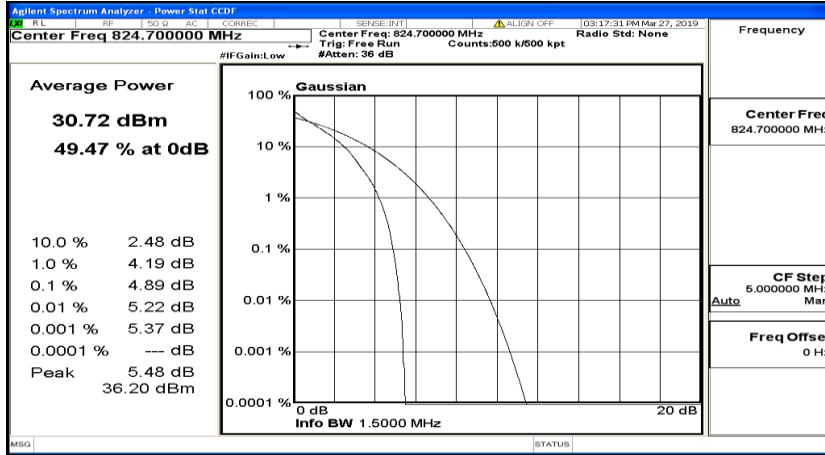
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.89	<13	PASS
	MCH	4.35	<13	PASS
	HCH	4.29	<13	PASS
16QAM	LCH	5.7	<13	PASS
	MCH	5.19	<13	PASS
	HCH	5.11	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.12	<13	PASS
	MCH	4.58	<13	PASS
	HCH	4.56	<13	PASS
16QAM	LCH	5.91	<13	PASS
	MCH	5.34	<13	PASS
	HCH	5.24	<13	PASS

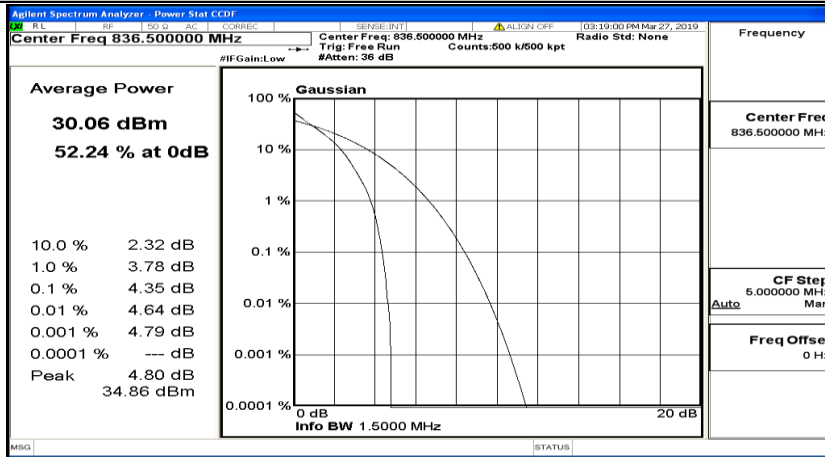
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.16	<13	PASS
	MCH	4.53	<13	PASS
	HCH	4.49	<13	PASS
16QAM	LCH	5.9	<13	PASS
	MCH	5.3	<13	PASS
	HCH	5.31	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.2	<13	PASS
	MCH	4.83	<13	PASS
	HCH	4.77	<13	PASS
16QAM	LCH	5.95	<13	PASS
	MCH	5.53	<13	PASS
	HCH	5.56	<13	PASS

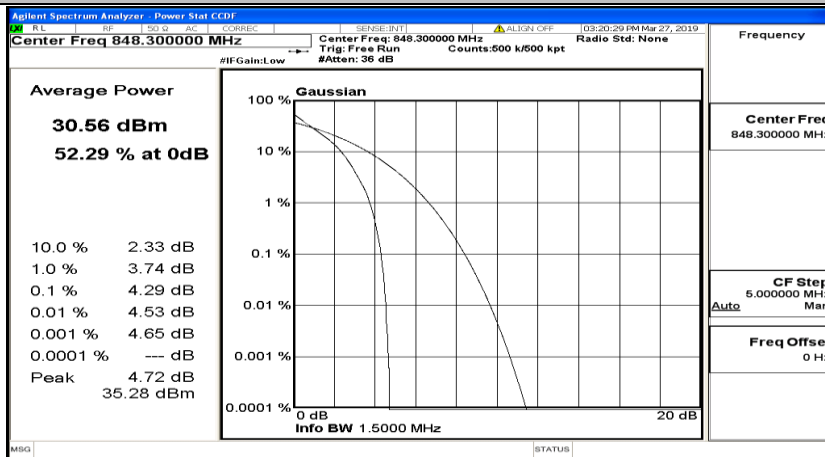
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



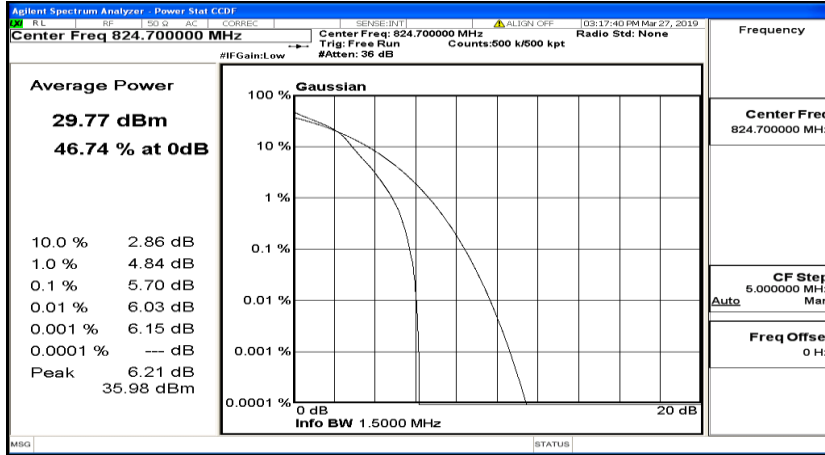
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



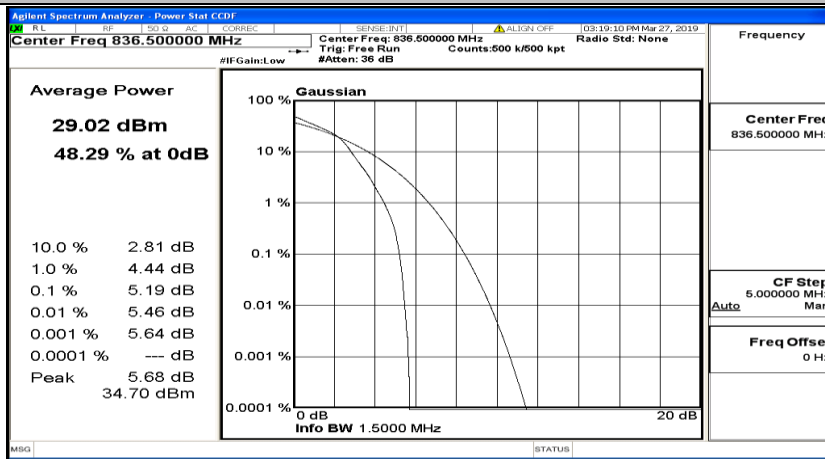
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



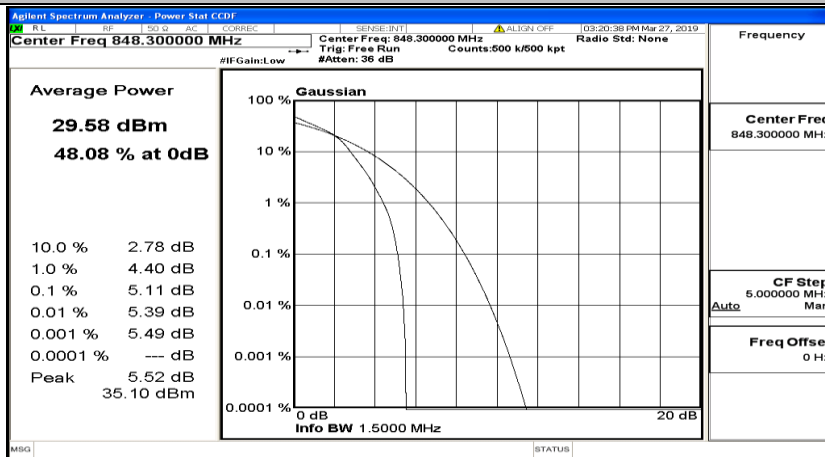
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



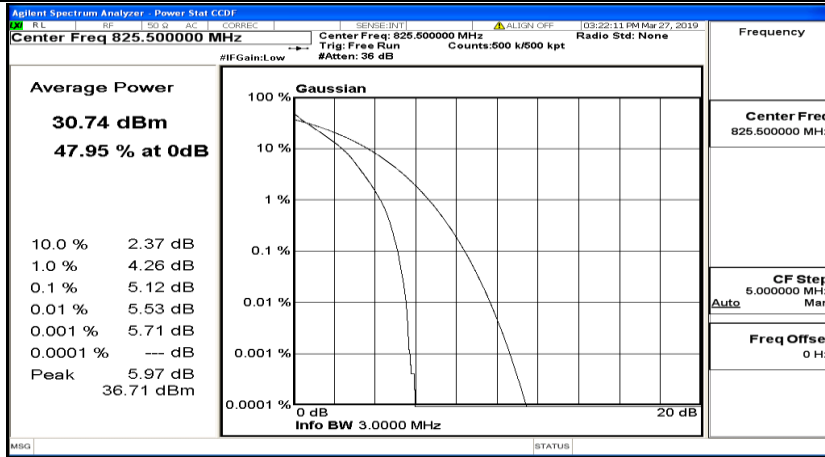
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



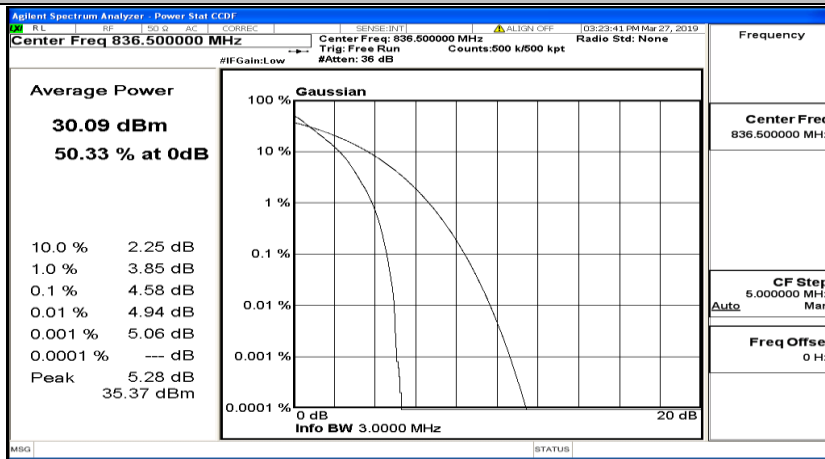
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



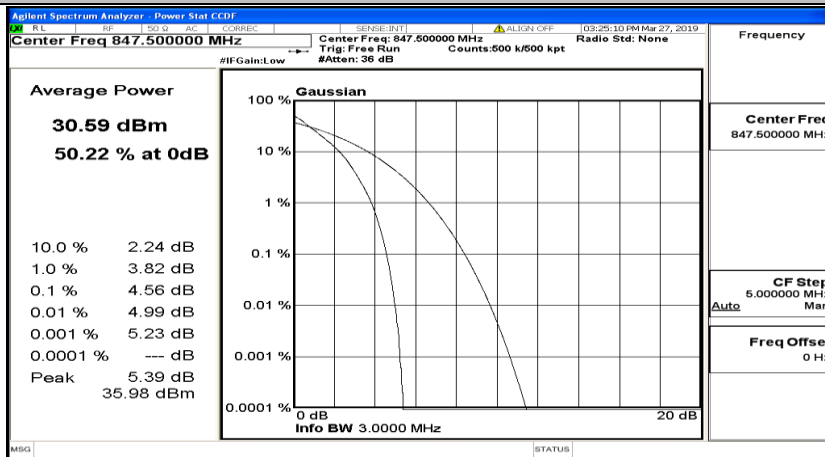
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



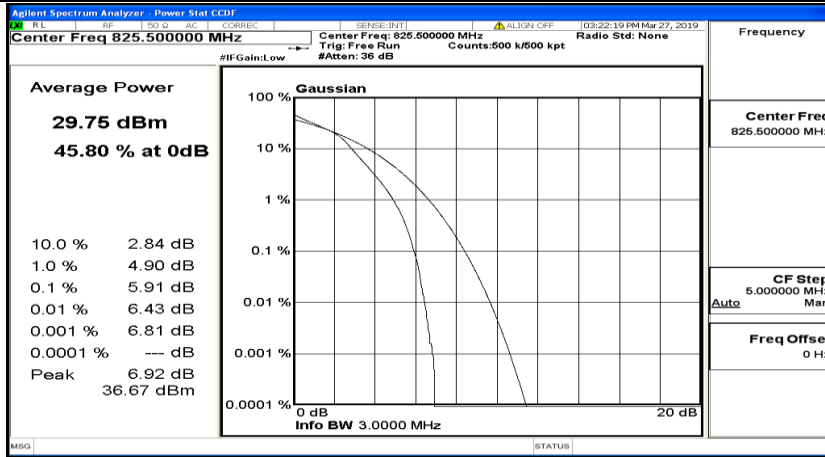
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



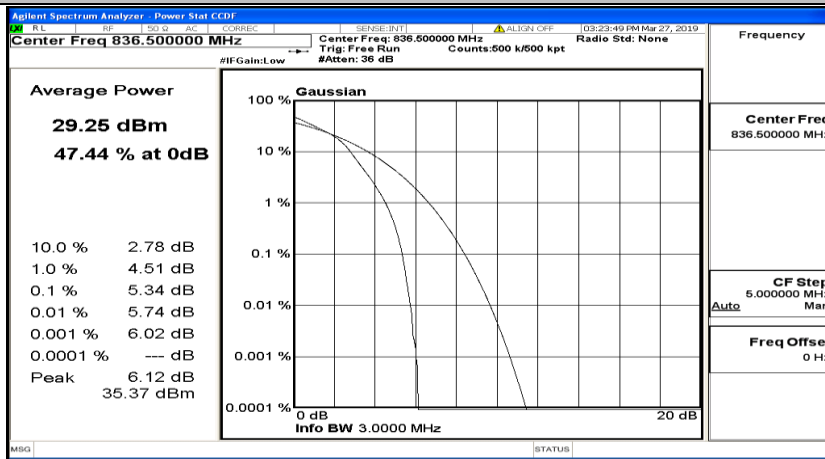
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



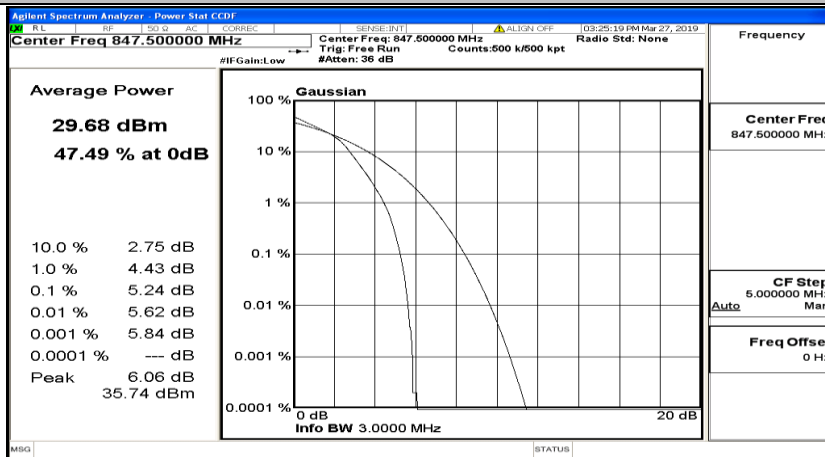
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



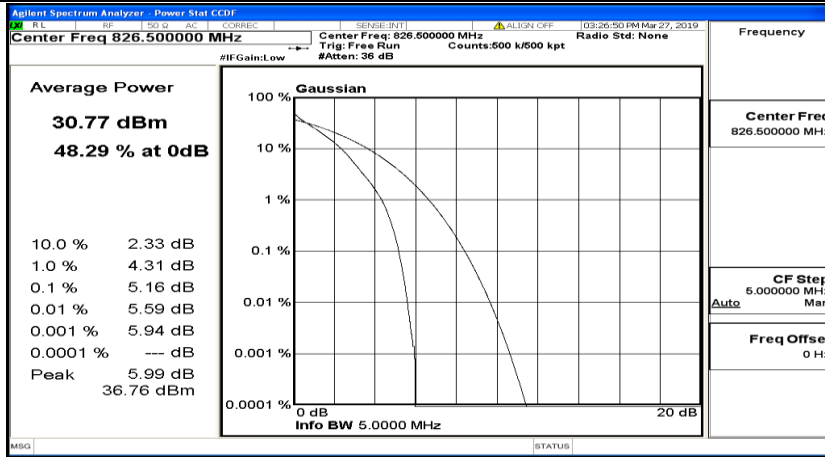
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



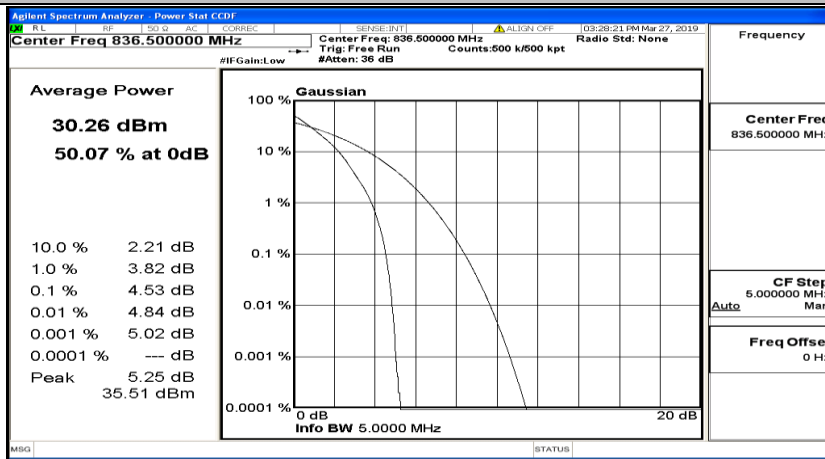
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



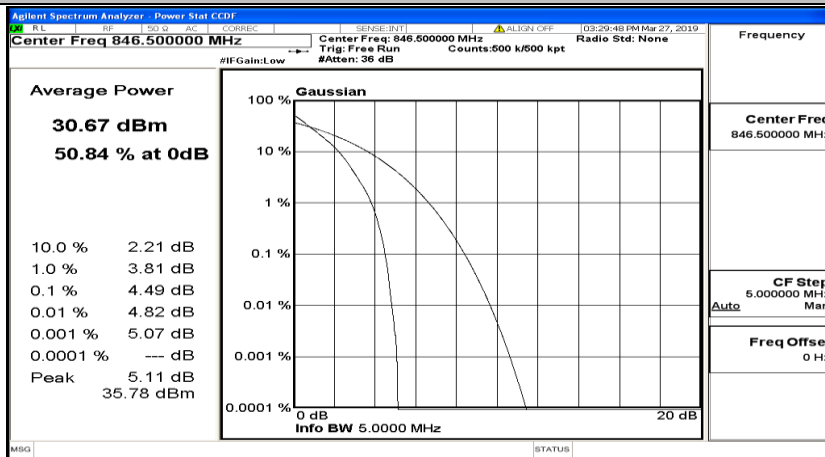
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



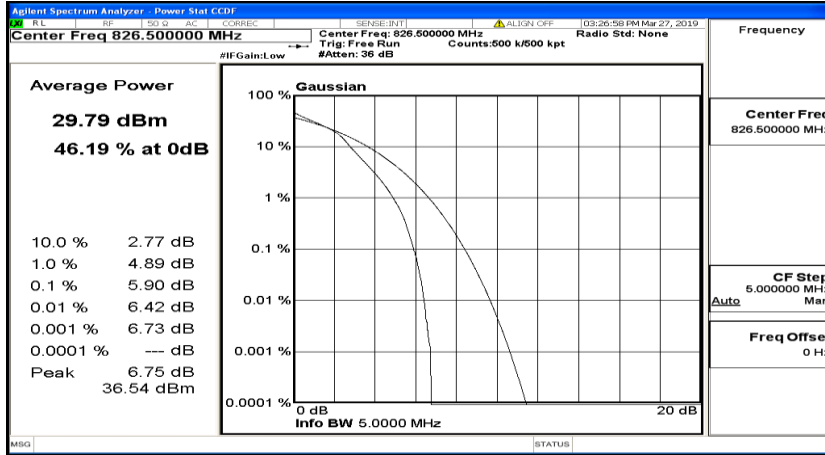
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



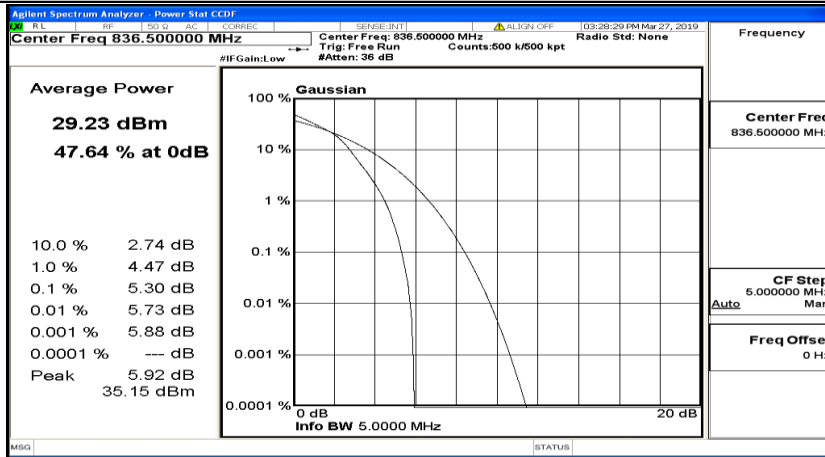
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



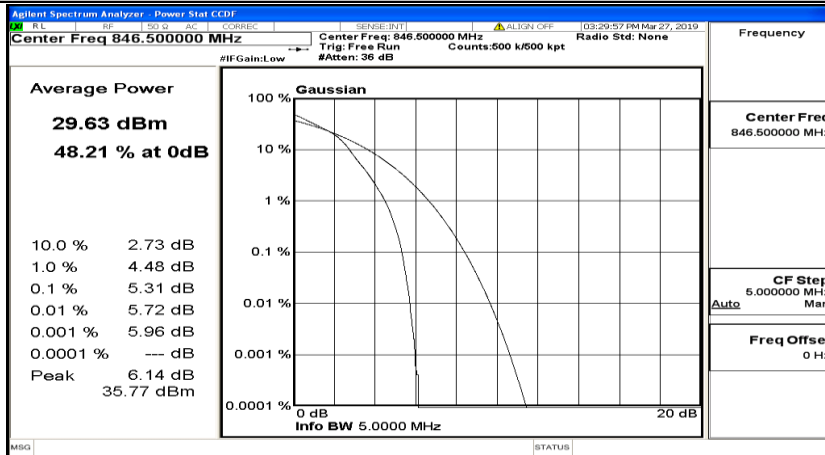
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



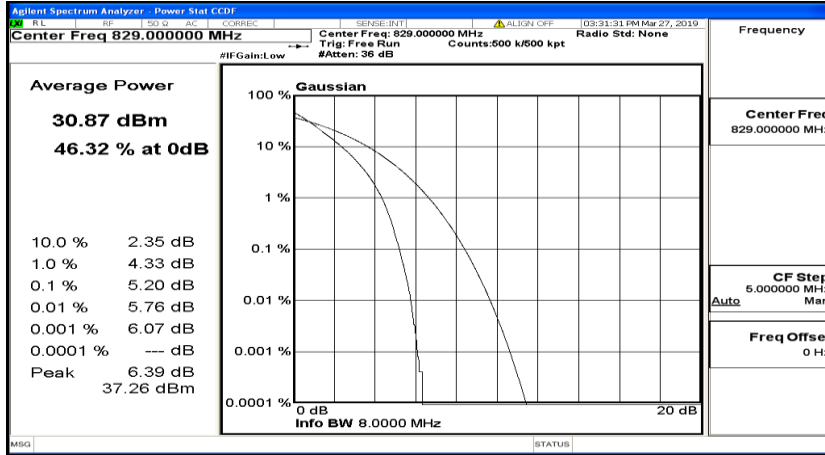
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



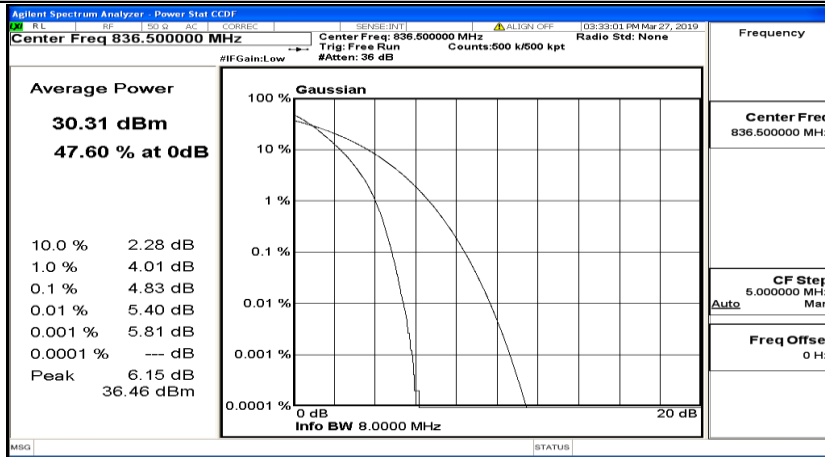
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



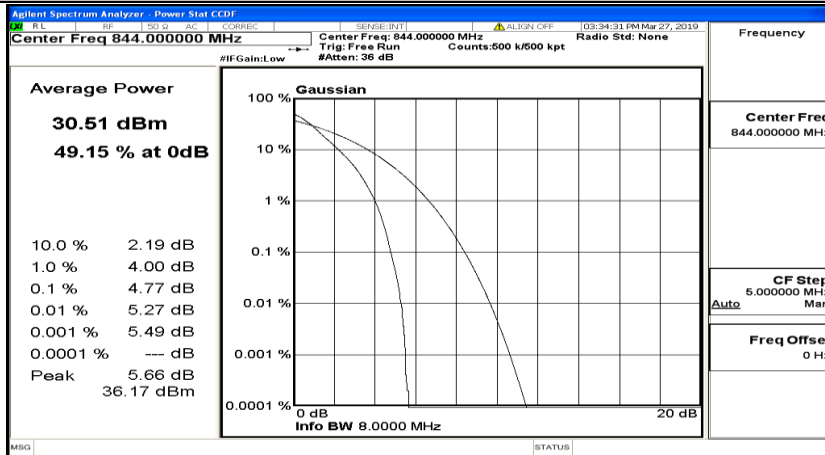
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _LCH_QPSK



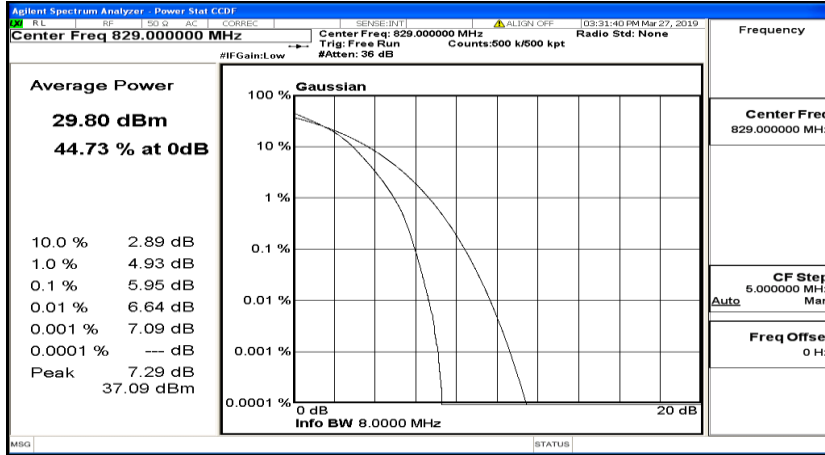
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _MCH_QPSK



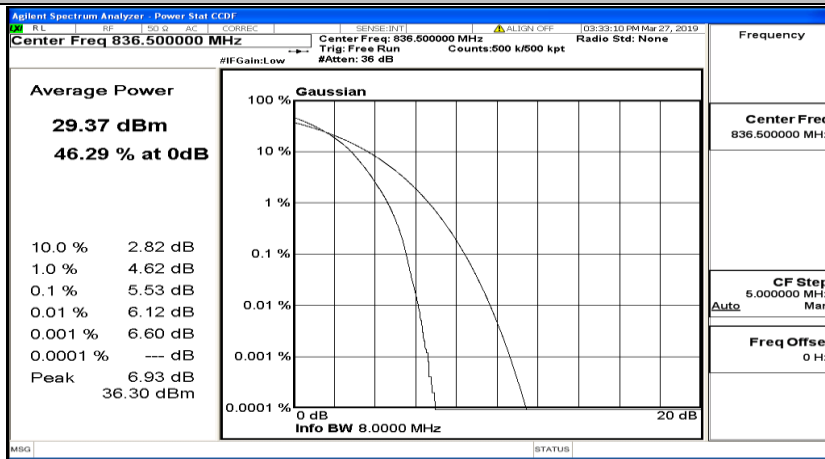
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _HCH_QPSK



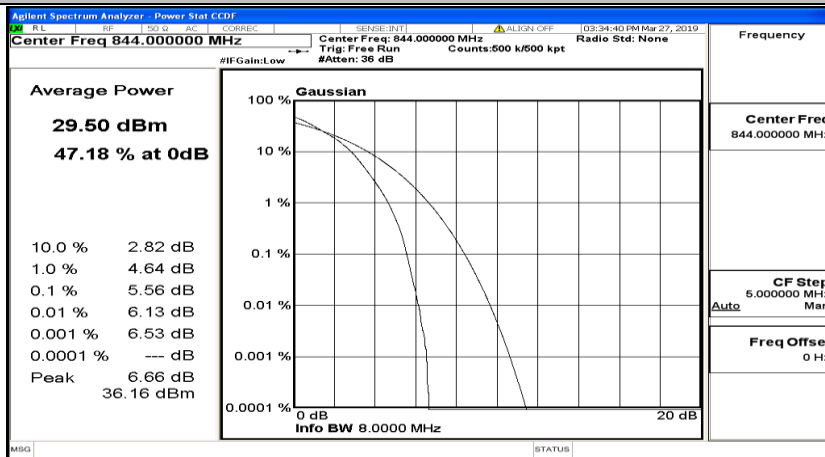
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



D.3 26dB Bandwidth and Occupied Bandwidth

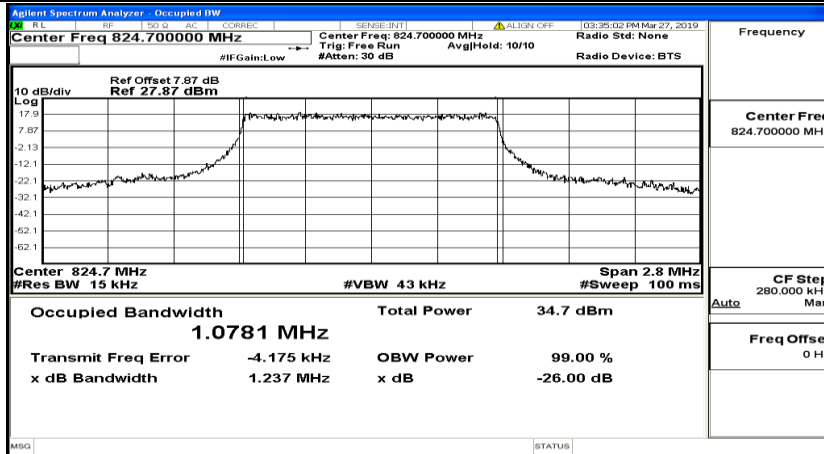
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0781	1.237	PASS
	MCH	1.0758	1.259	PASS
	HCH	1.0801	1.259	PASS
16QAM	LCH	1.0806	1.254	PASS
	MCH	1.0795	1.229	PASS
	HCH	1.0764	1.251	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6820	2.893	PASS
	MCH	2.6839	2.915	PASS
	HCH	2.6843	2.904	PASS
16QAM	LCH	2.6819	2.891	PASS
	MCH	2.6834	2.909	PASS
	HCH	2.6897	2.937	PASS

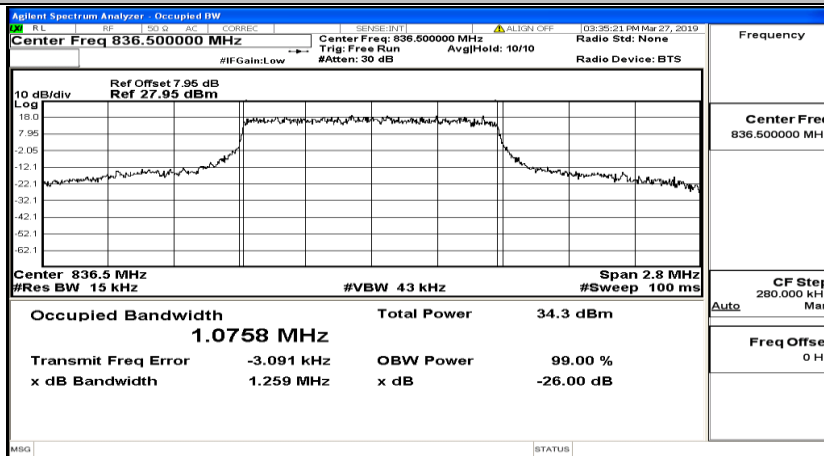
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4765	4.799	PASS
	MCH	4.4680	4.797	PASS
	HCH	4.4710	4.819	PASS
16QAM	LCH	4.4737	4.830	PASS
	MCH	4.4657	4.835	PASS
	HCH	4.4743	4.790	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9491	9.518	PASS
	MCH	8.9233	9.522	PASS
	HCH	8.9290	9.504	PASS
16QAM	LCH	8.9549	9.436	PASS
	MCH	8.9203	9.452	PASS
	HCH	8.9296	9.392	PASS

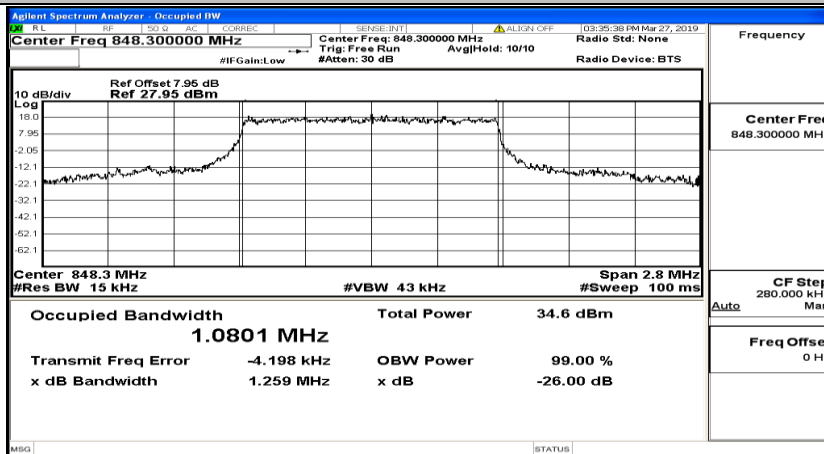
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



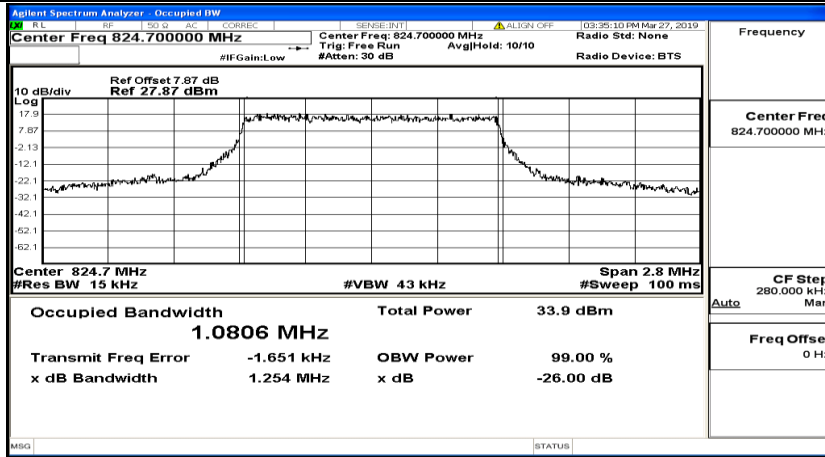
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



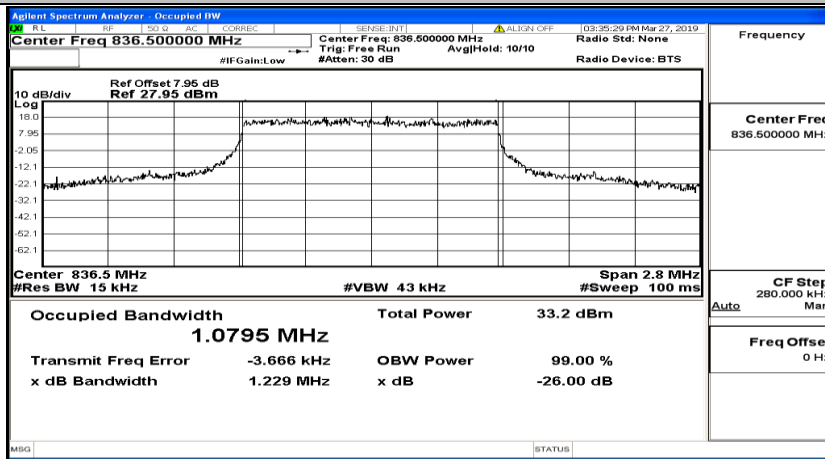
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



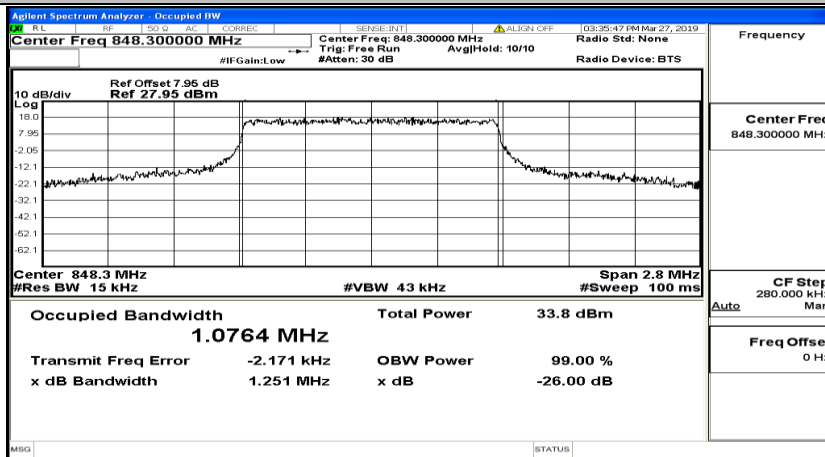
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



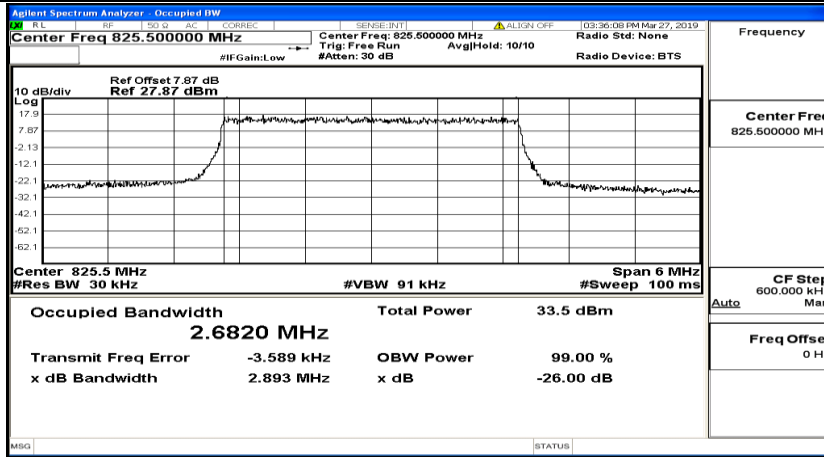
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



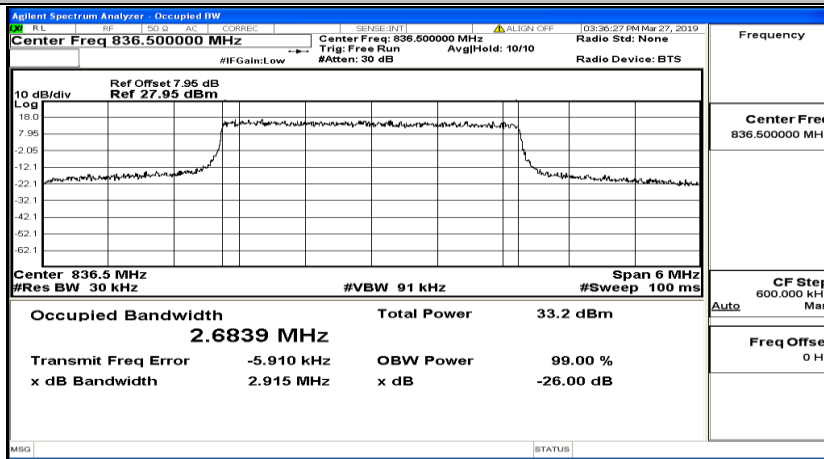
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



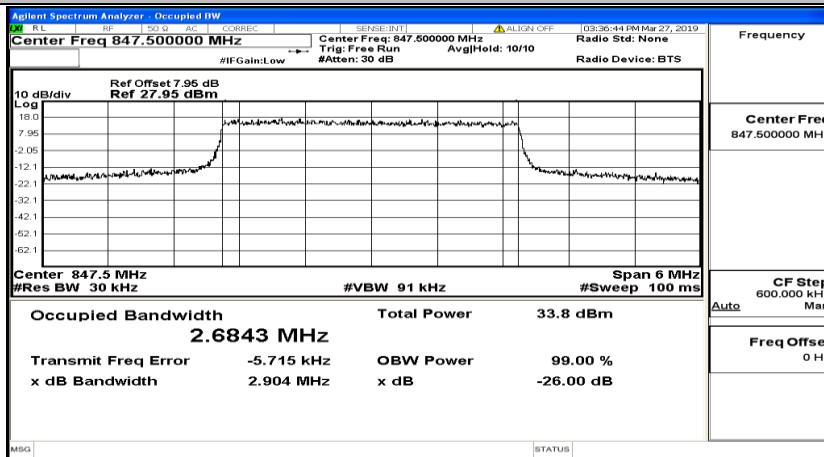
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



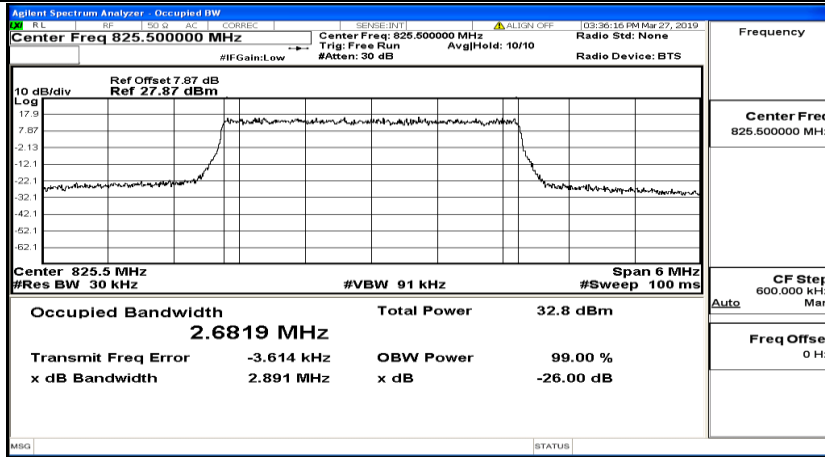
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



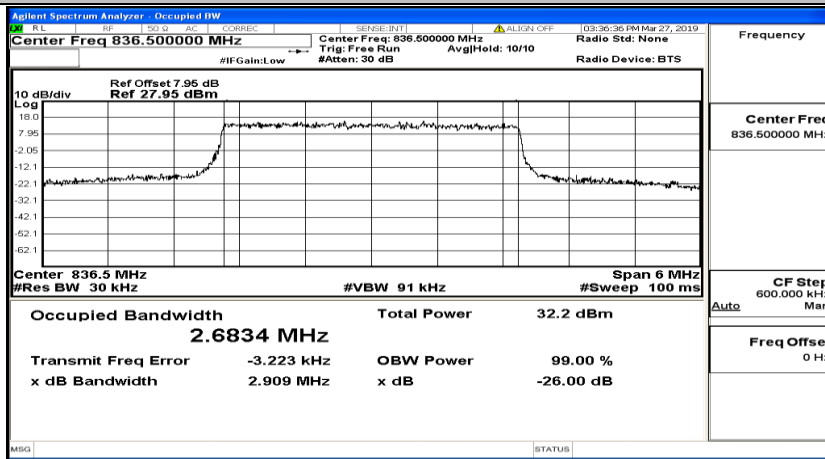
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



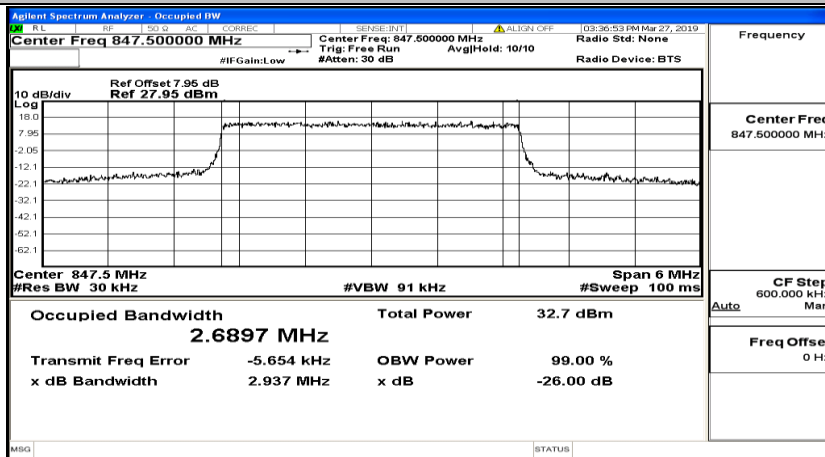
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



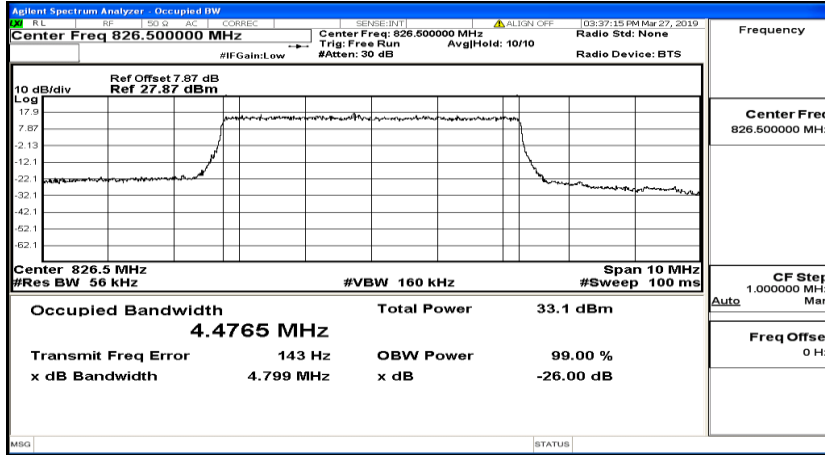
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



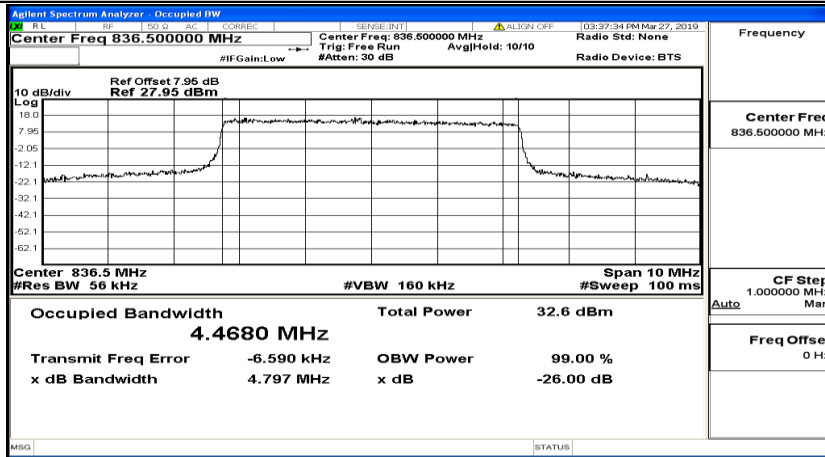
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



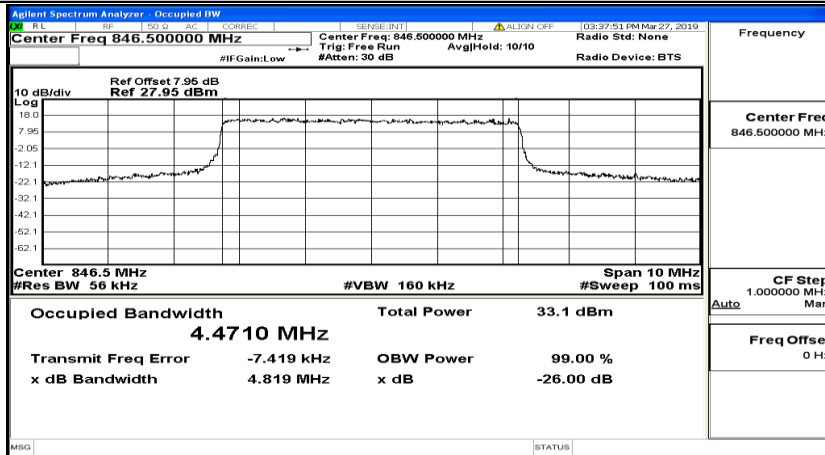
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



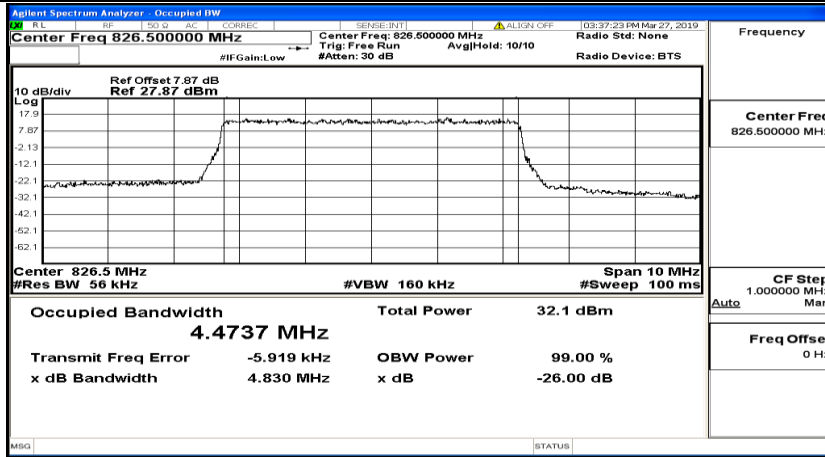
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



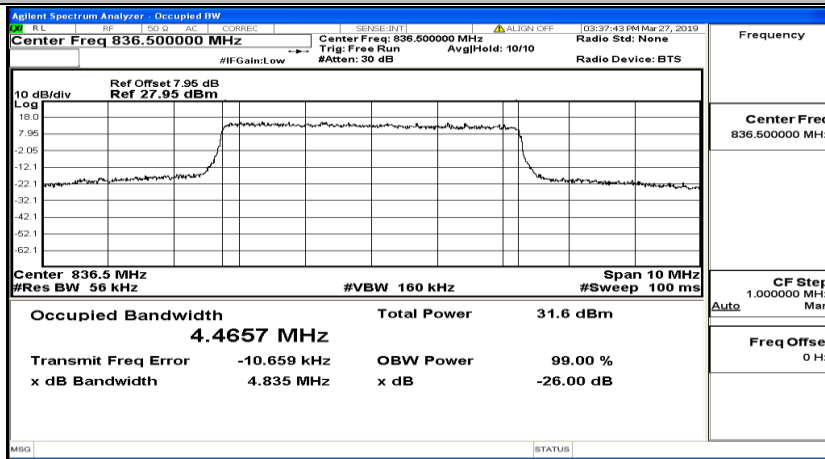
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



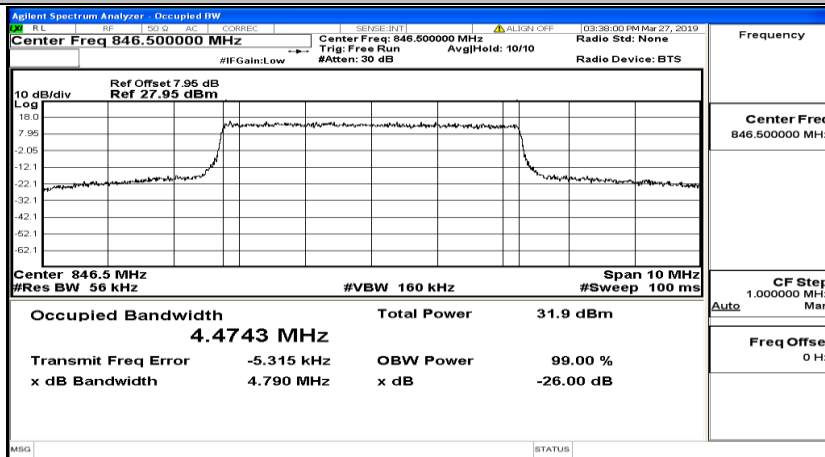
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



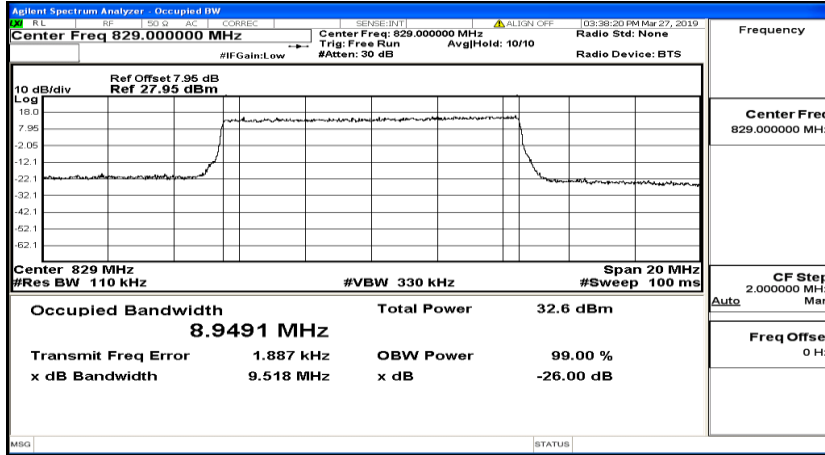
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



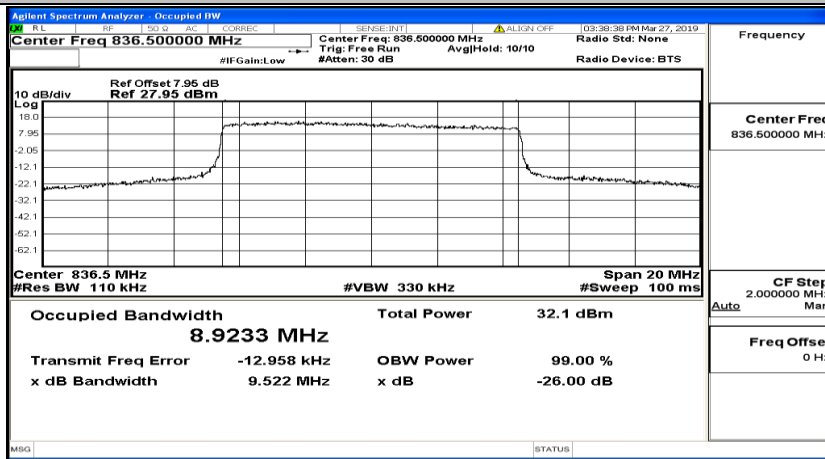
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



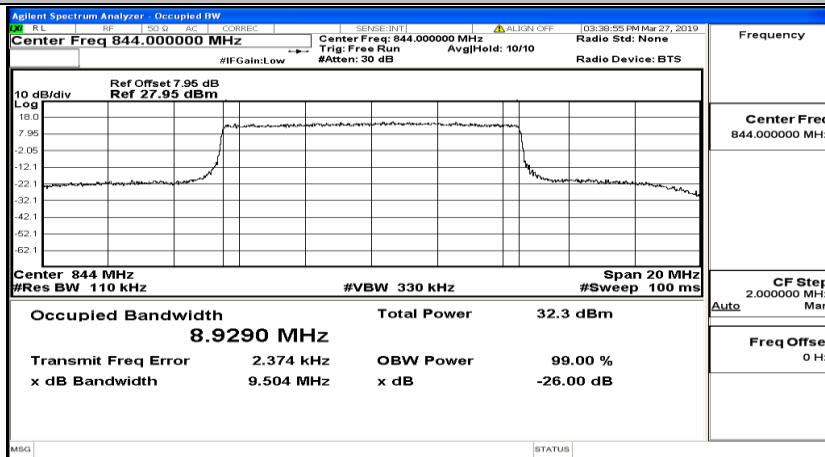
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



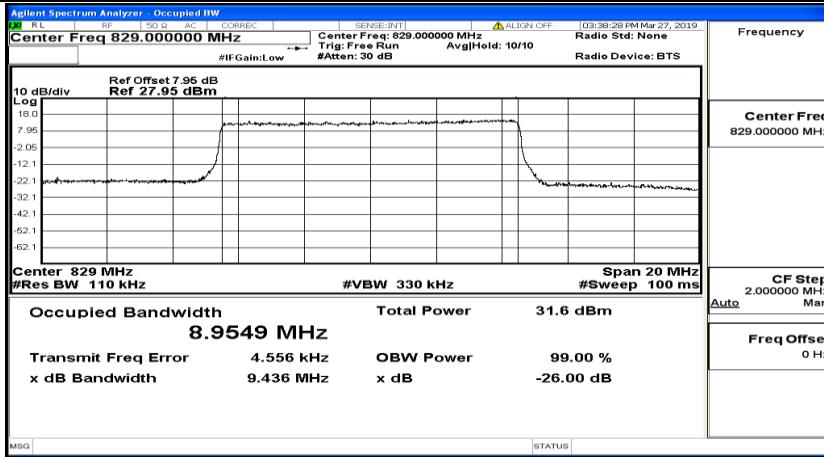
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



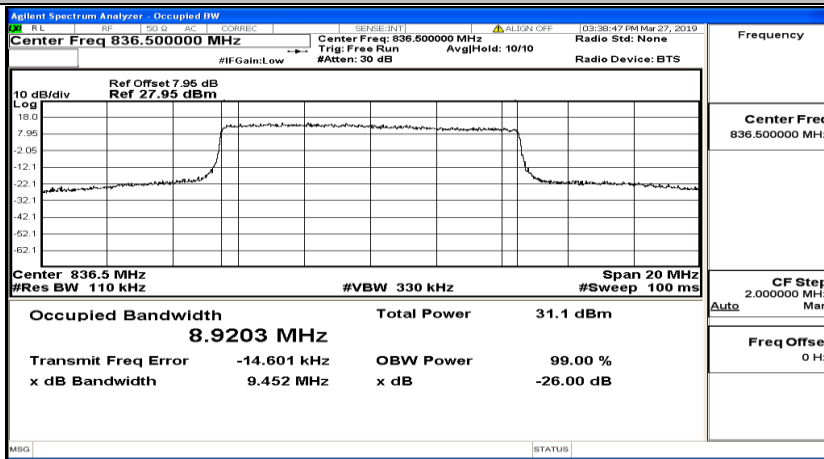
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



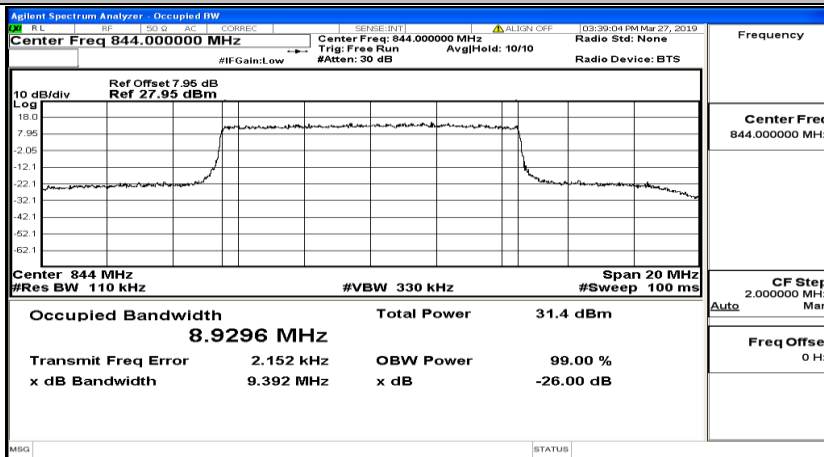
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

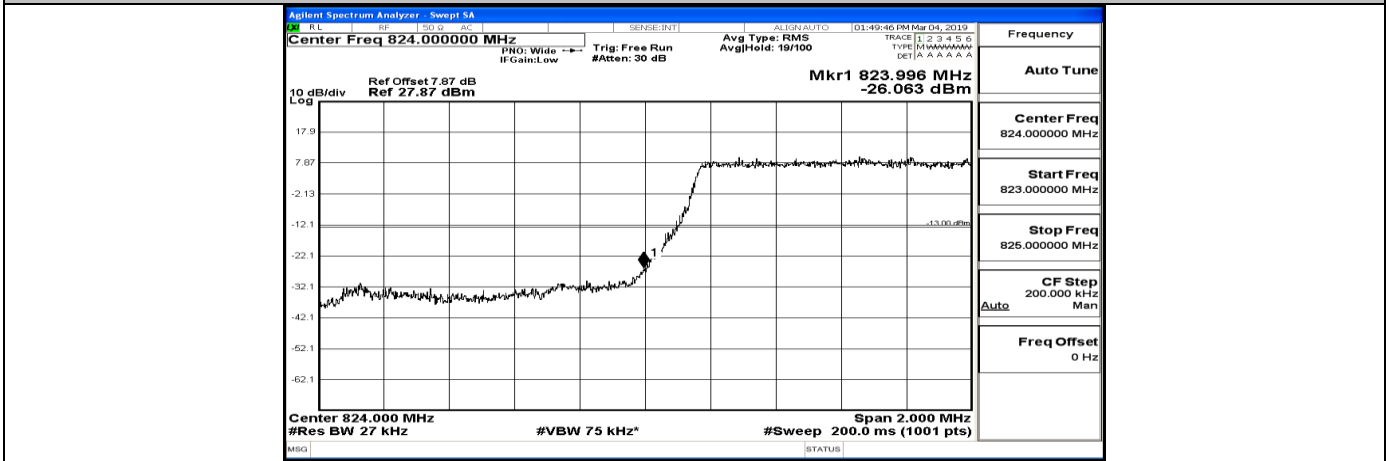


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

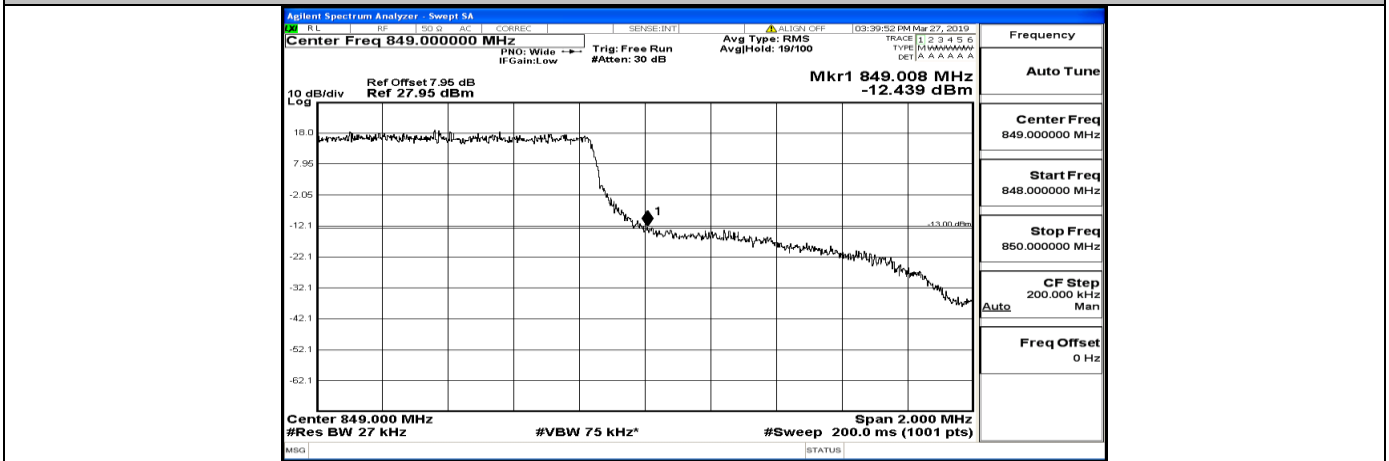


D.4 Band Edge

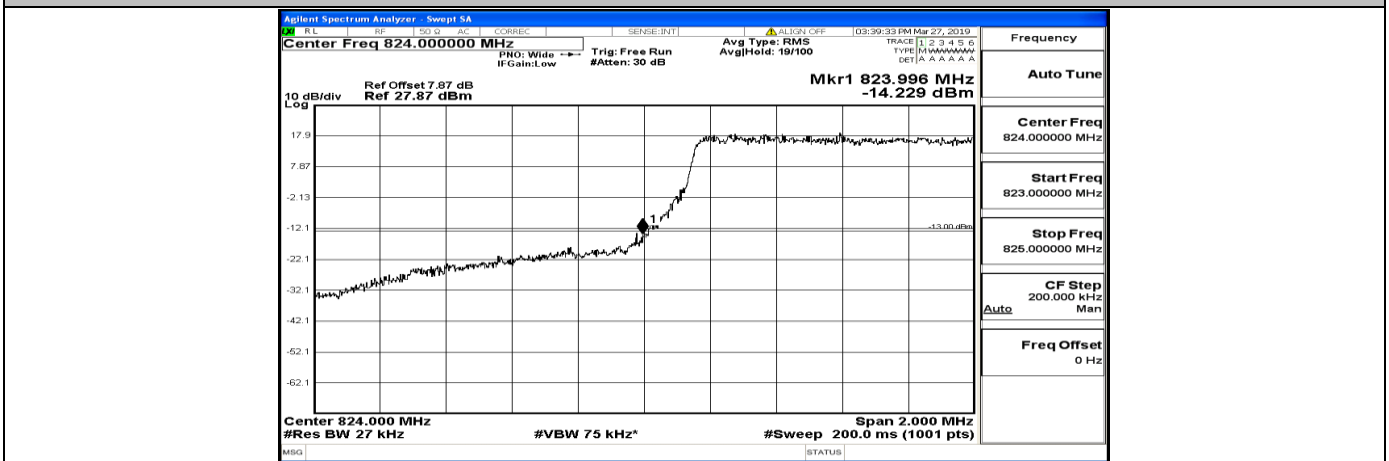
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



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



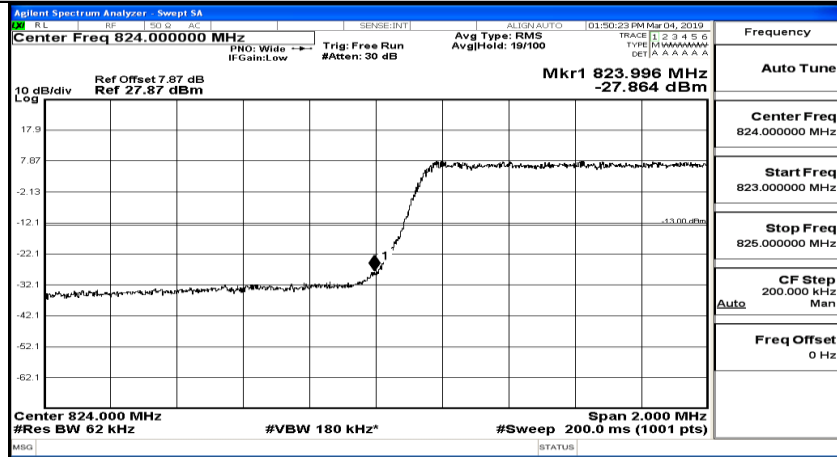
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



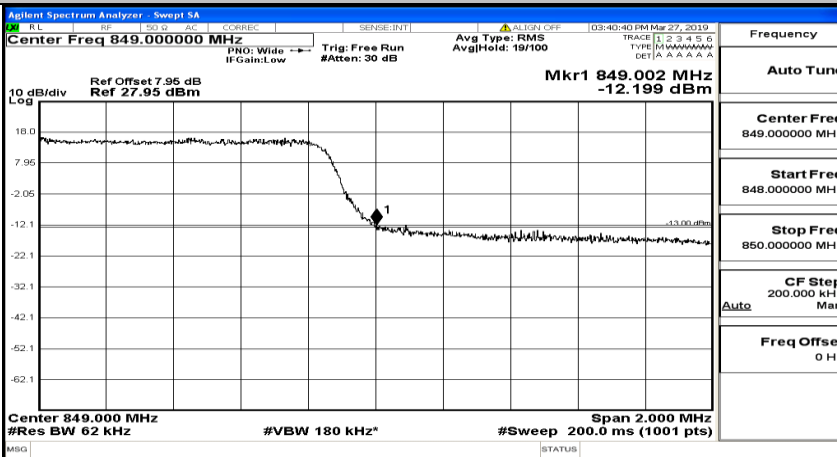
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



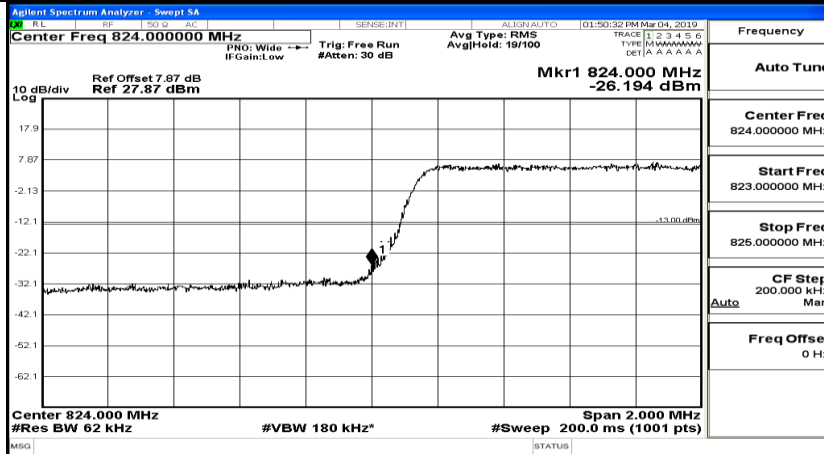
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



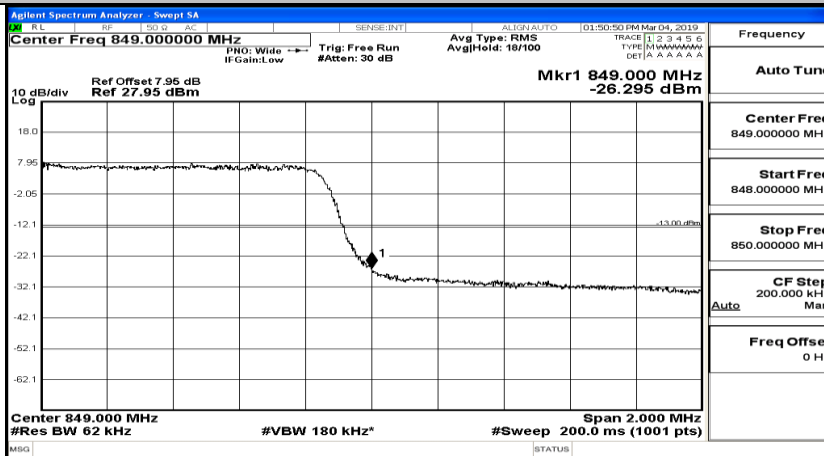
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



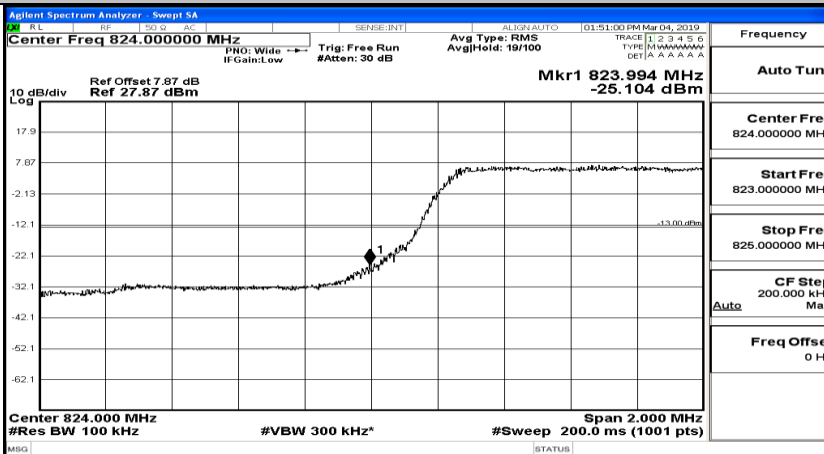
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



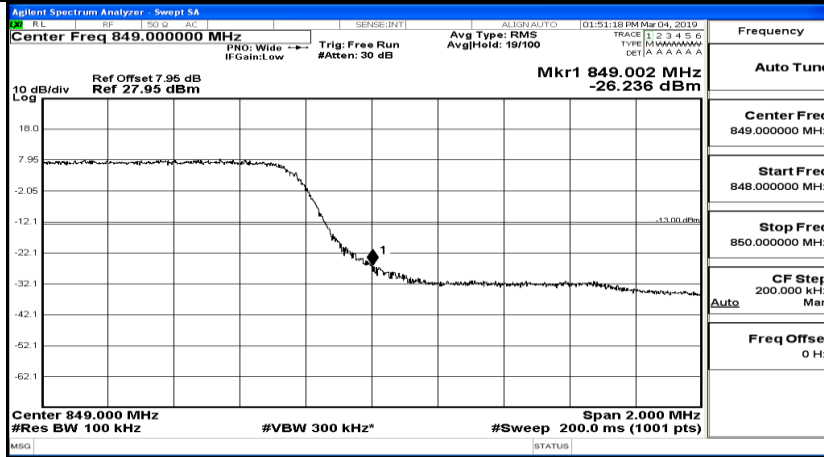
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



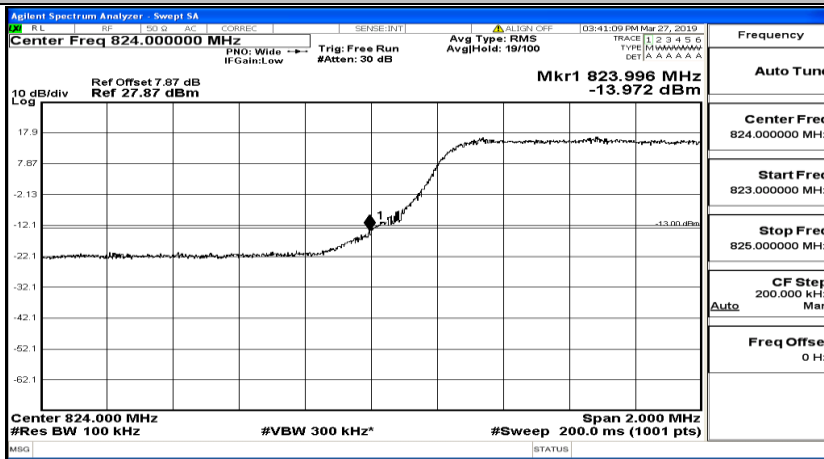
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



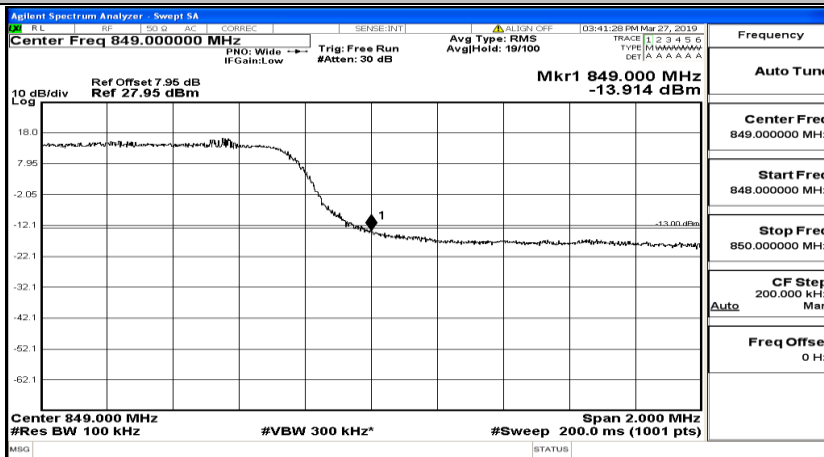
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



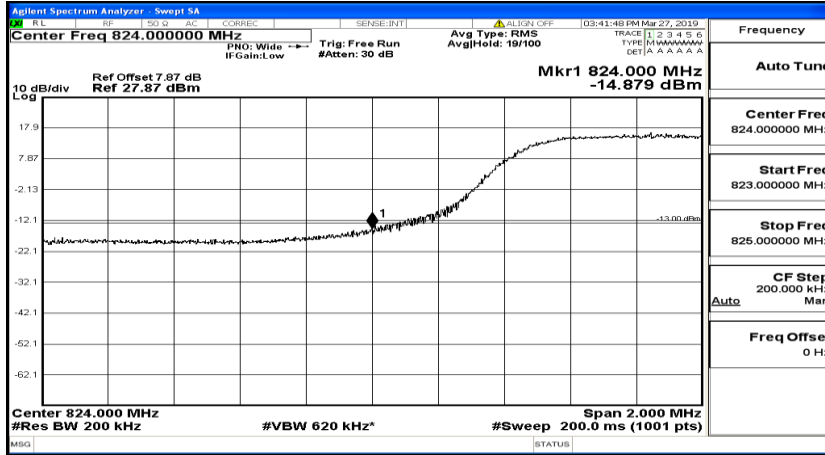
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



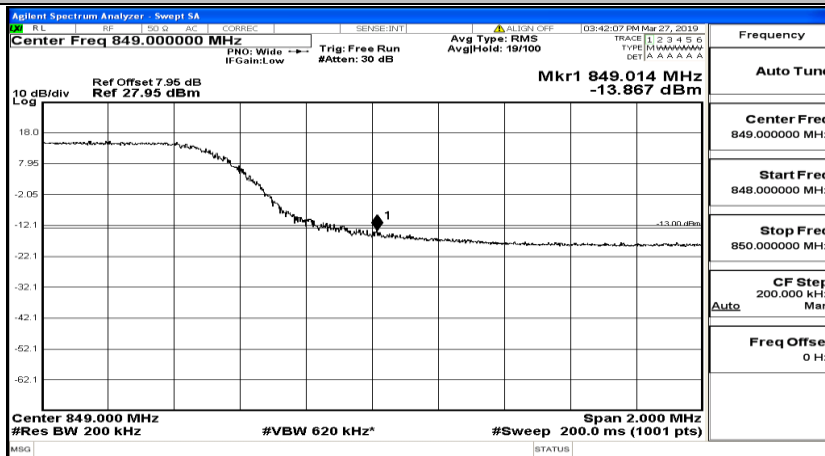
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



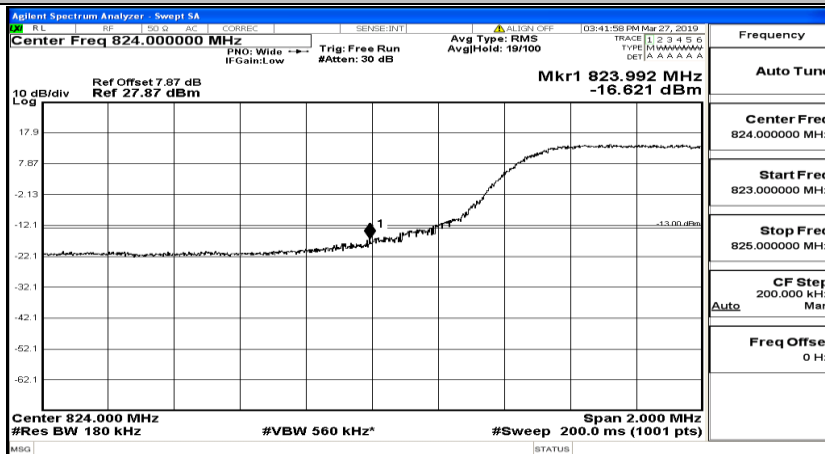
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



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

