

## Appendix K: Test Data for E-UTRA Band 26(824MHz-849MHz)

**Product Name: POS Terminal**

**Trade Mark: SmartPeak**

**Test Model: P500**

### Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

### K.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	23.71	23.39	PASS
		1	3	23.80	23.43	PASS
		1	5	23.69	23.26	PASS
		3	0	23.70	22.93	PASS
		3	2	23.65	22.84	PASS
		3	3	23.63	22.91	PASS
		6	0	23.65	22.45	PASS
	MCH	1	0	23.35	22.86	PASS
		1	3	23.35	22.92	PASS
		1	5	23.15	22.65	PASS
		3	0	23.52	22.26	PASS
		3	2	23.42	22.20	PASS
		3	3	23.32	22.04	PASS
		6	0	23.30	22.26	PASS
	HCH	1	0	23.10	22.28	PASS
		1	3	23.03	22.19	PASS
		1	5	23.03	22.33	PASS
		3	0	23.18	22.48	PASS
		3	2	23.05	22.36	PASS
		3	3	23.12	22.35	PASS
		6	0	23.23	22.21	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	23.55	23.51	PASS
		1	7	23.59	23.19	PASS
		1	14	23.83	23.18	PASS
		8	0	23.76	22.84	PASS
		8	4	23.64	22.65	PASS
		8	7	23.65	22.29	PASS
		15	0	23.71	22.66	PASS
	MCH	1	0	23.49	23.20	PASS
		1	7	23.32	22.97	PASS
		1	14	23.28	22.94	PASS
		8	0	23.43	22.95	PASS
		8	4	23.34	22.94	PASS
		8	7	23.30	22.25	PASS
		15	0	23.44	22.42	PASS
	HCH	1	0	23.32	22.81	PASS
		1	7	22.94	22.45	PASS
		1	14	23.09	22.71	PASS
		8	0	23.44	22.45	PASS
		8	4	23.20	22.13	PASS
		8	7	23.16	22.13	PASS
		15	0	23.23	22.38	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	23.60	23.18	PASS
		1	12	23.43	23.15	PASS
		1	24	23.38	23.04	PASS
		12	0	23.73	22.93	PASS
		12	6	23.59	22.67	PASS
		12	13	23.53	22.64	PASS
		25	0	23.66	22.78	PASS
	MCH	1	0	23.24	23.07	PASS
		1	12	23.20	22.89	PASS
		1	24	23.09	22.83	PASS
		12	0	23.52	22.53	PASS
		12	6	23.37	22.41	PASS
		12	13	23.32	22.36	PASS
		25	0	23.40	22.52	PASS
	HCH	1	0	23.23	22.29	PASS
		1	12	23.41	22.71	PASS
		1	24	23.54	22.81	PASS
		12	0	23.36	22.50	PASS
		12	6	23.29	22.30	PASS
		12	13	23.25	22.30	PASS
		25	0	23.46	22.58	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	23.97	23.82	PASS
		1	24	23.35	23.02	PASS
		1	49	23.70	23.34	PASS
		25	0	23.79	22.69	PASS
		25	12	23.49	22.45	PASS
		25	25	23.57	22.56	PASS
		50	0	23.74	22.73	PASS
	MCH	1	0	23.68	23.62	PASS
		1	24	23.70	23.48	PASS
		1	49	23.14	22.57	PASS
		25	0	23.56	22.45	PASS
		25	12	23.45	22.38	PASS
		25	25	23.35	22.19	PASS
		50	0	23.47	22.44	PASS
	HCH	1	0	23.38	23.16	PASS
		1	24	23.29	22.98	PASS
		1	49	23.03	22.81	PASS
		25	0	23.32	22.44	PASS
		25	12	23.49	22.41	PASS
		25	25	23.50	22.41	PASS
		50	0	23.36	22.51	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.87	23.75	PASS
		1	37	23.35	22.72	PASS
		1	74	23.62	23.38	PASS
		37	0	23.71	22.71	PASS
		37	18	23.53	22.48	PASS
		37	38	23.65	22.73	PASS
		75	0	23.60	22.60	PASS
	MCH	1	0	23.67	23.57	PASS
		1	37	23.48	23.43	PASS
		1	74	23.35	23.17	PASS
		37	0	23.67	22.51	PASS
		37	18	23.49	22.44	PASS
		37	38	23.36	22.24	PASS
		75	0	23.45	22.47	PASS
	HCH	1	0	23.59	23.90	PASS
		1	37	23.03	22.65	PASS
		1	74	23.32	23.29	PASS
		37	0	23.63	22.73	PASS
		37	18	23.30	22.35	PASS
		37	38	23.56	22.58	PASS
		75	0	23.43	22.42	PASS

**K.2 Peak-to-Average Ratio**

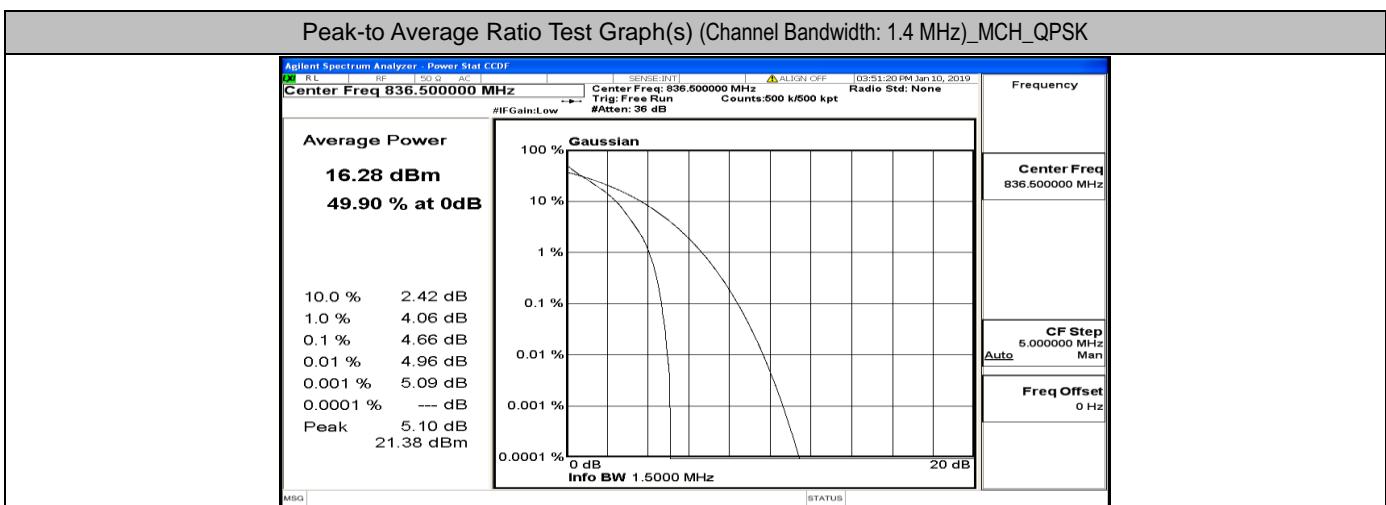
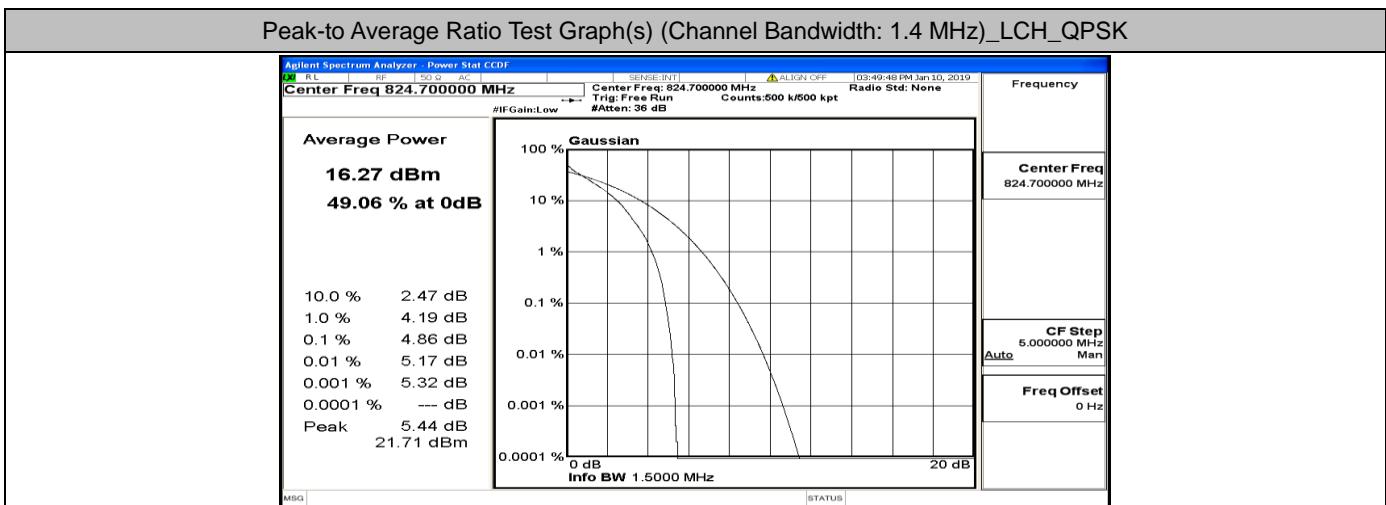
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.86	<13	PASS
	MCH	4.66	<13	PASS
	HCH	4.43	<13	PASS
16QAM	LCH	5.64	<13	PASS
	MCH	5.48	<13	PASS
	HCH	5.18	<13	PASS

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	4.85	<13	PASS
	HCH	4.67	<13	PASS
16QAM	LCH	5.82	<13	PASS
	MCH	5.68	<13	PASS
	HCH	5.44	<13	PASS

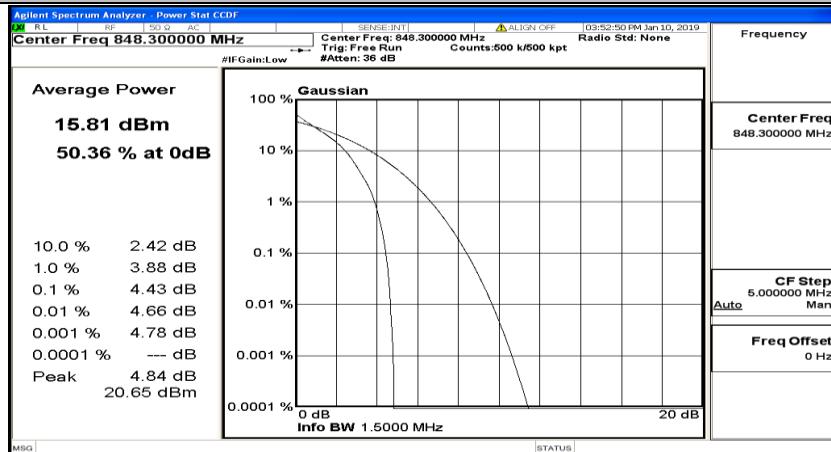
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.07	<13	PASS
	MCH	4.87	<13	PASS
	HCH	4.7	<13	PASS
16QAM	LCH	5.84	<13	PASS
	MCH	5.63	<13	PASS
	HCH	5.59	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.21	<13	PASS
	MCH	4.87	<13	PASS
	HCH	5.01	<13	PASS
16QAM	LCH	5.92	<13	PASS
	MCH	5.63	<13	PASS
	HCH	5.76	<13	PASS

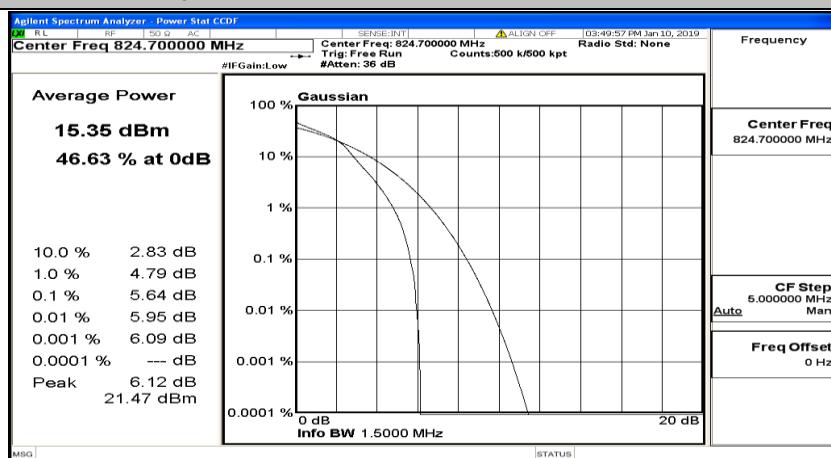
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.11	<13	PASS
	MCH	4.75	<13	PASS
	HCH	5.21	<13	PASS
16QAM	LCH	6.23	<13	PASS
	MCH	5.95	<13	PASS
	HCH	6.2	<13	PASS



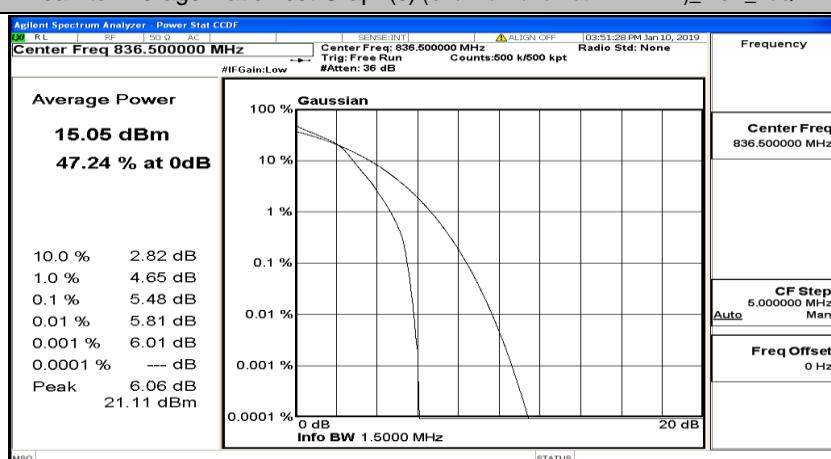
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



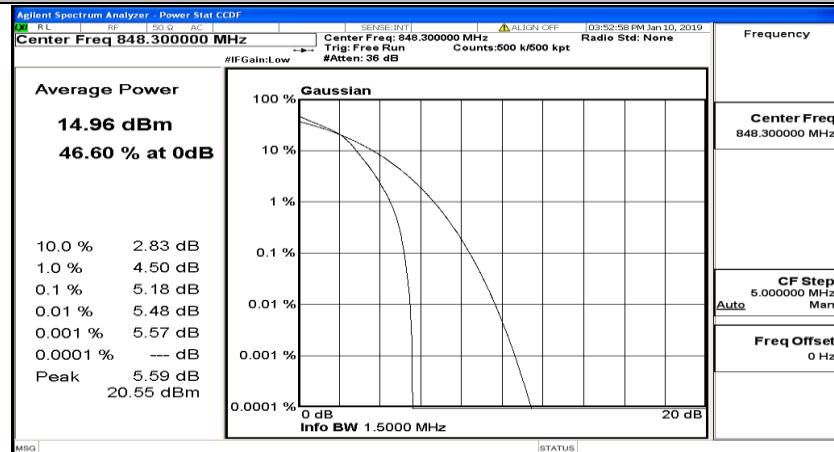
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



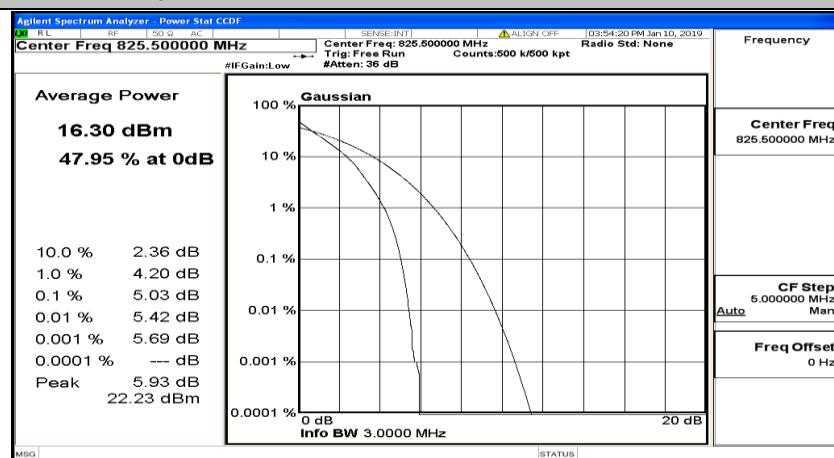
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



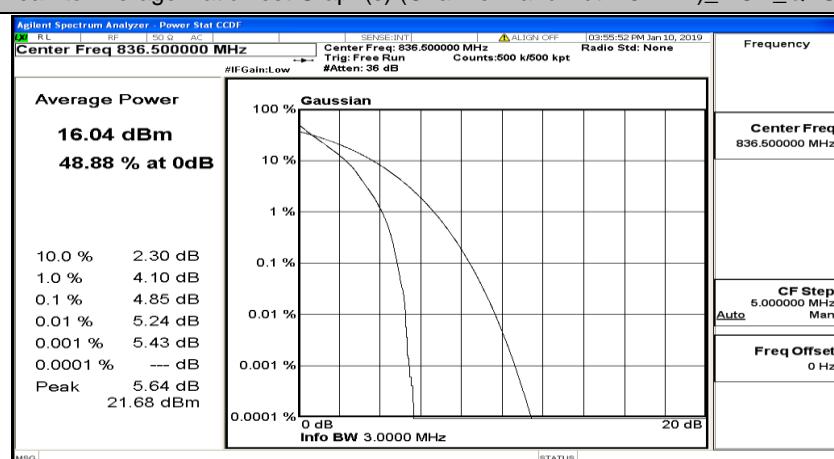
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



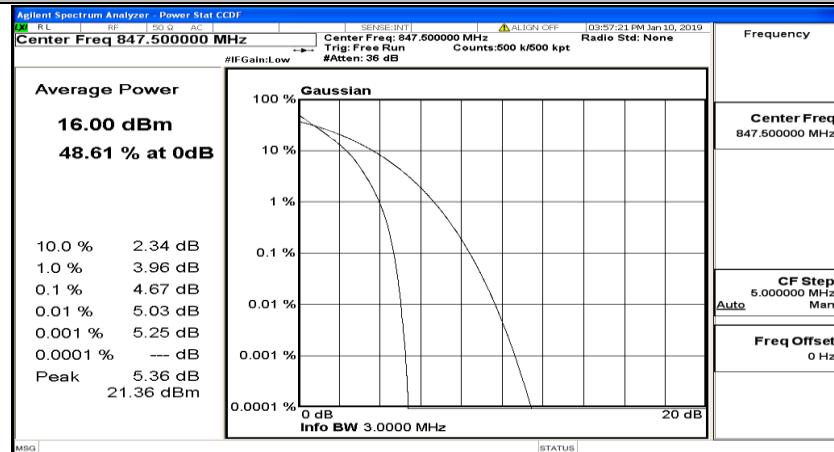
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



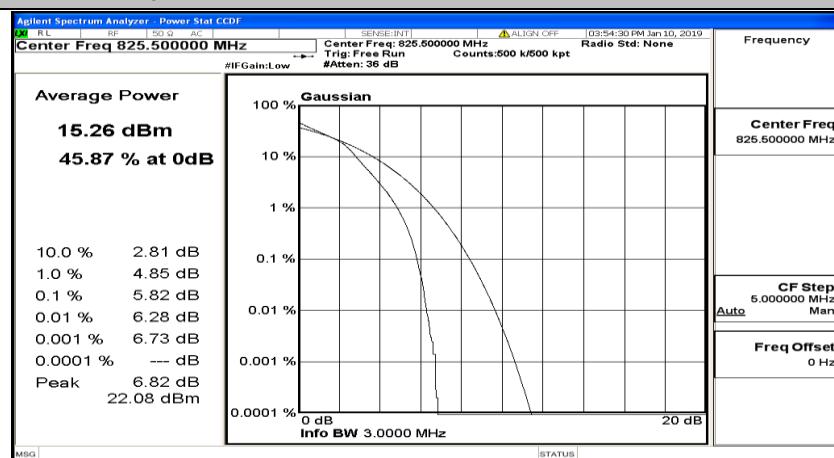
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



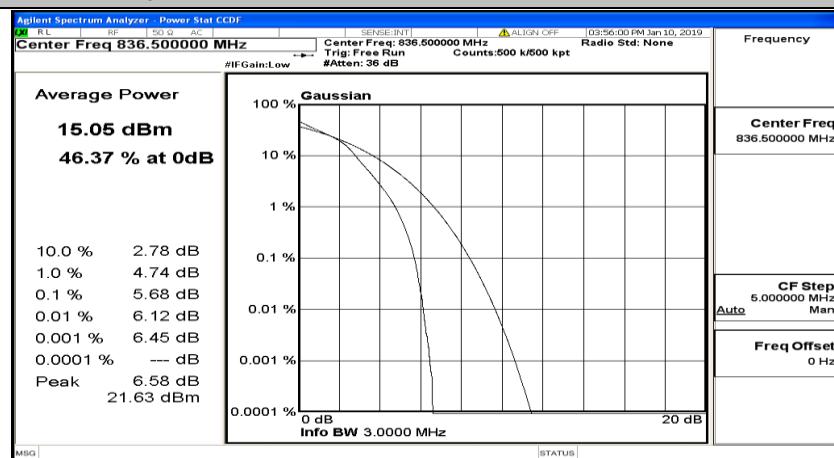
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



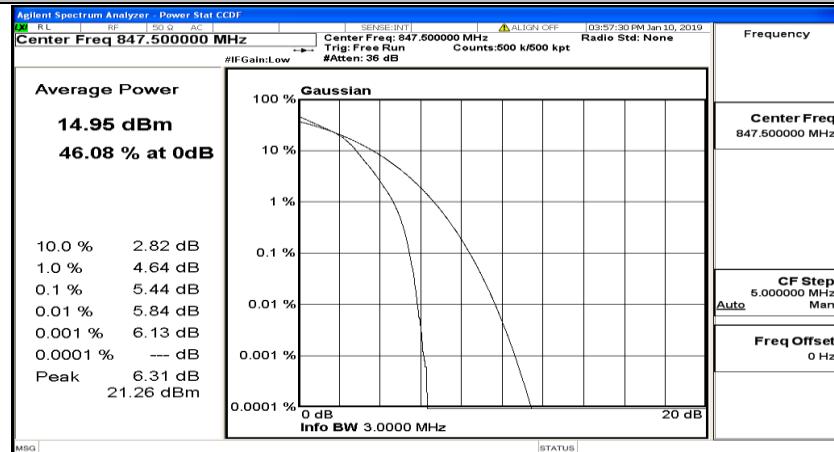
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



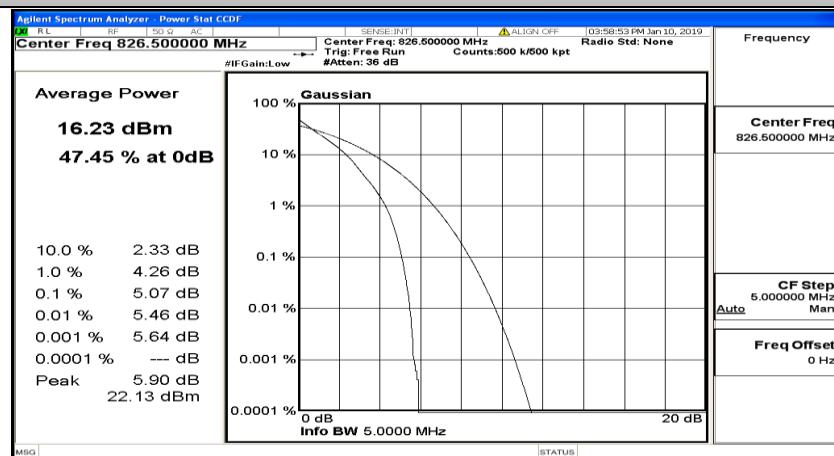
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



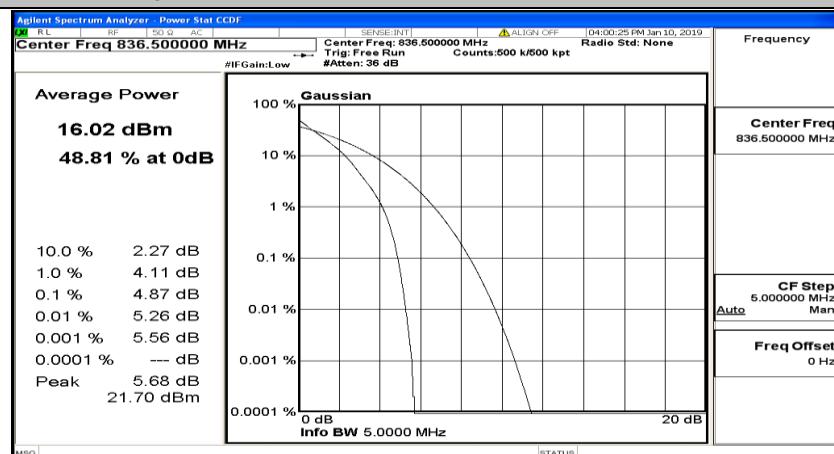
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



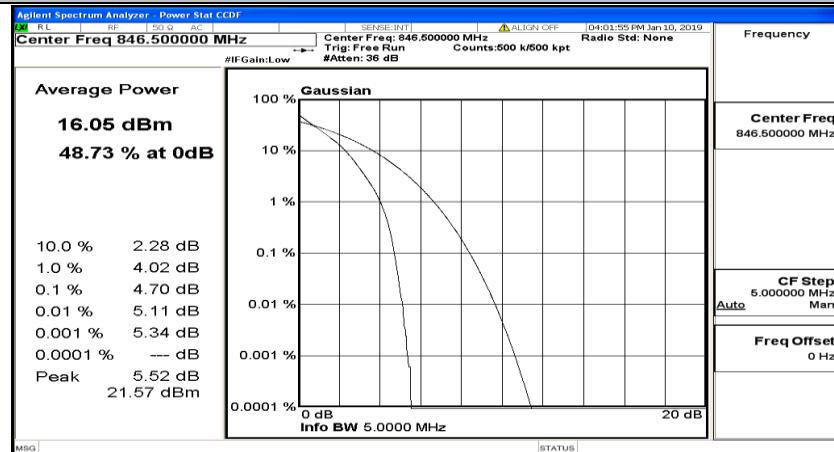
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



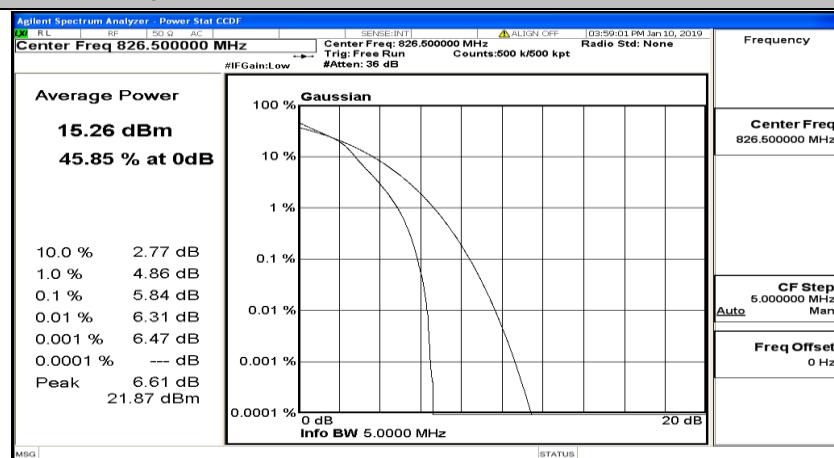
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



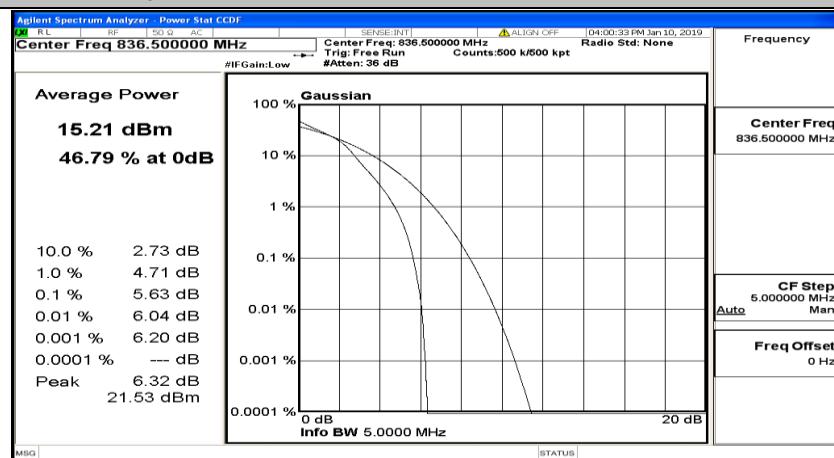
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



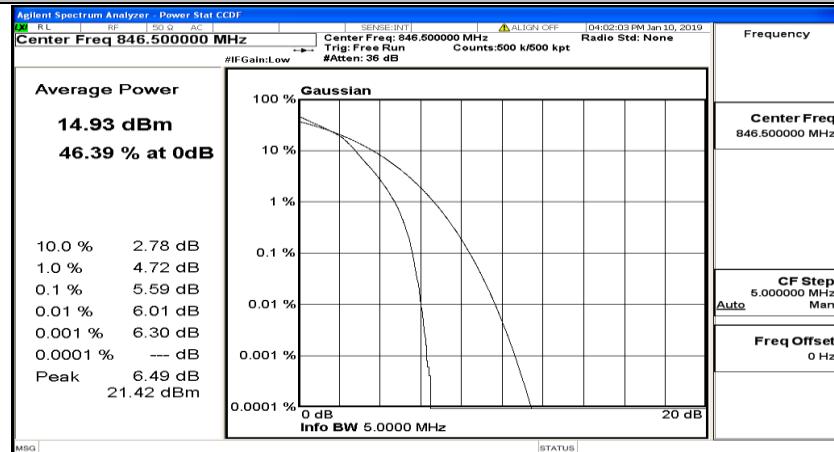
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



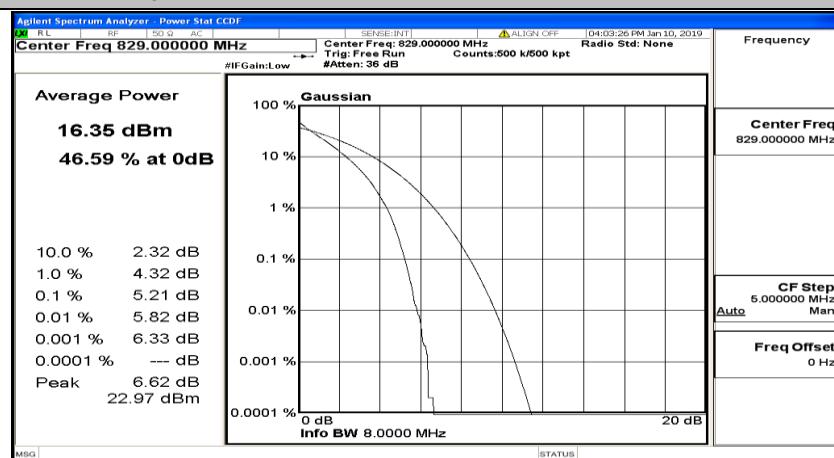
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



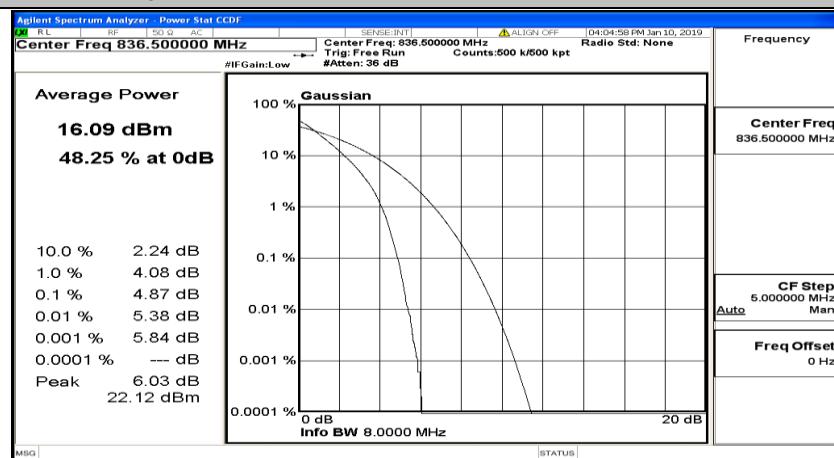
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



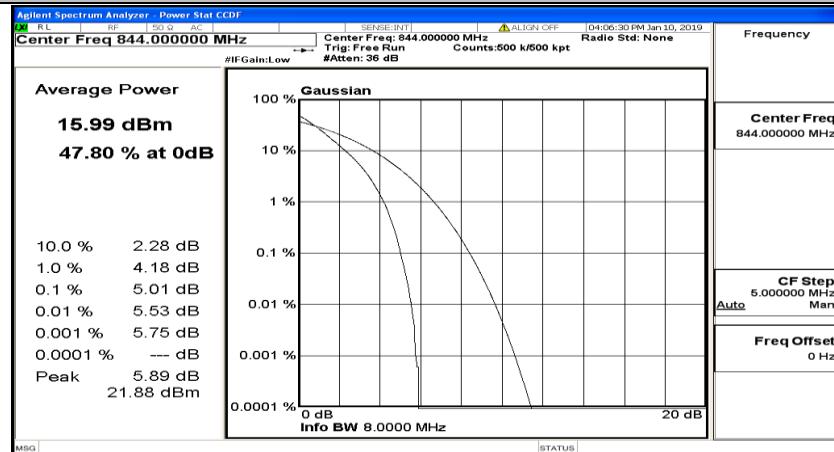
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



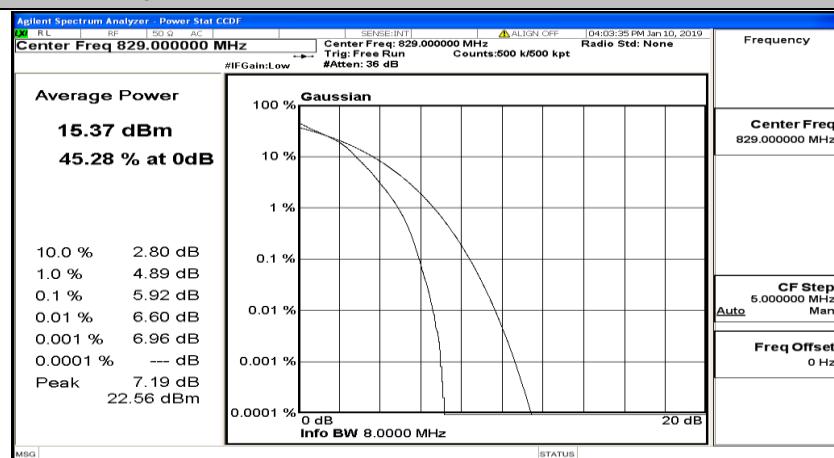
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



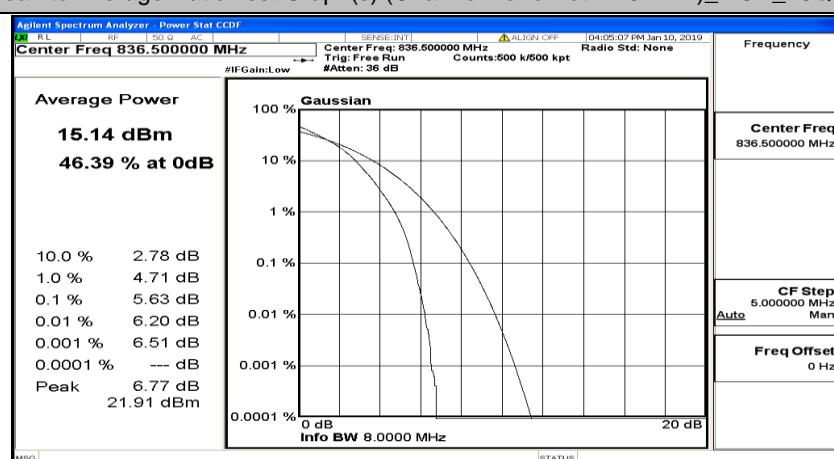
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



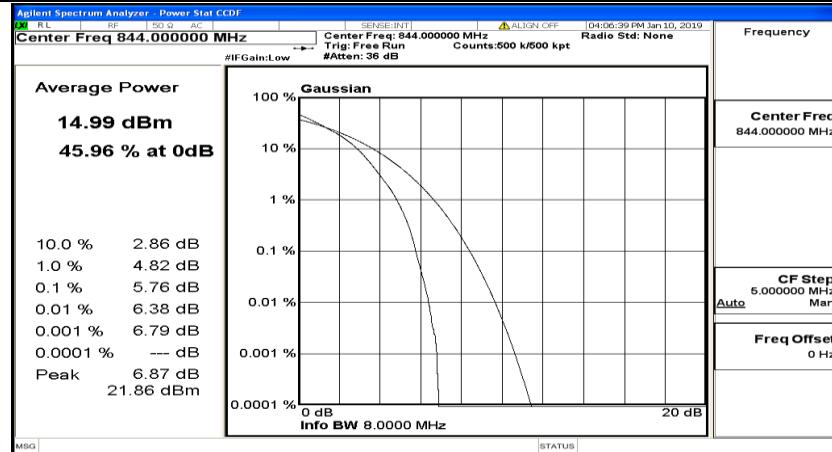
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



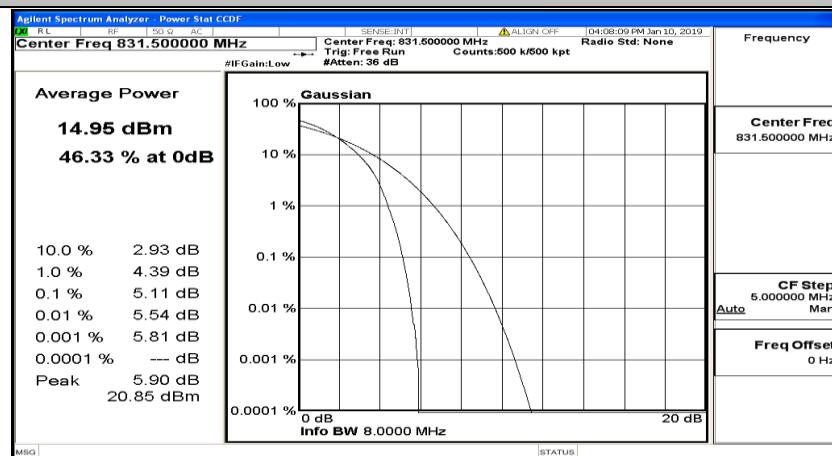
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM



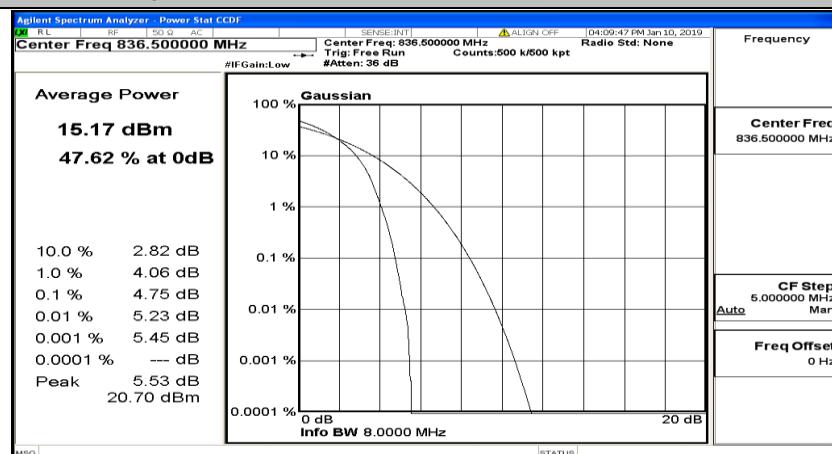
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



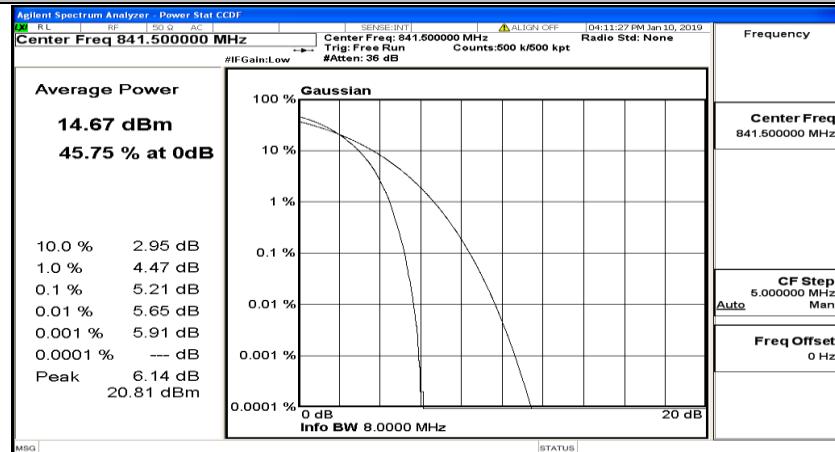
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



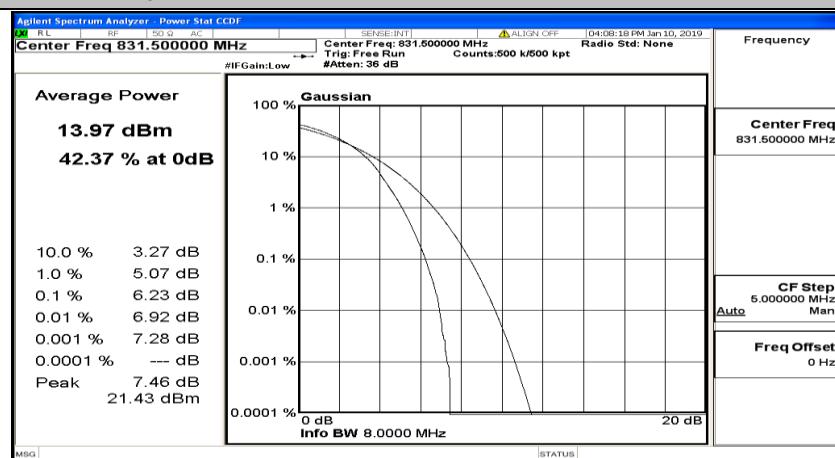
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_QPSK



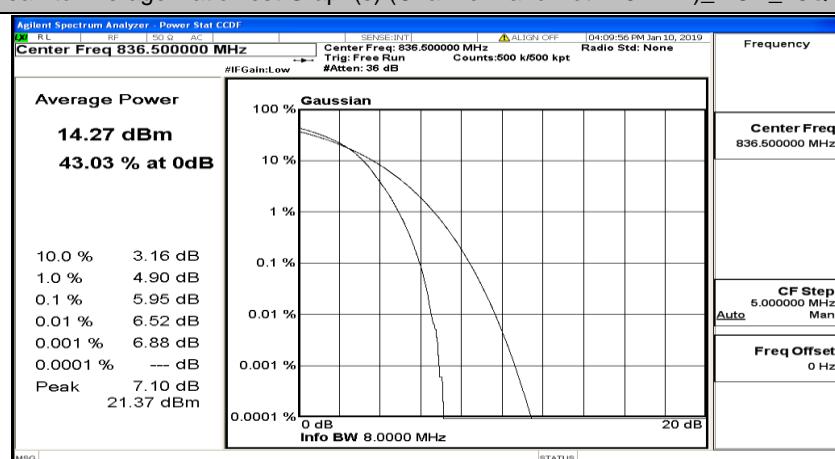
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK

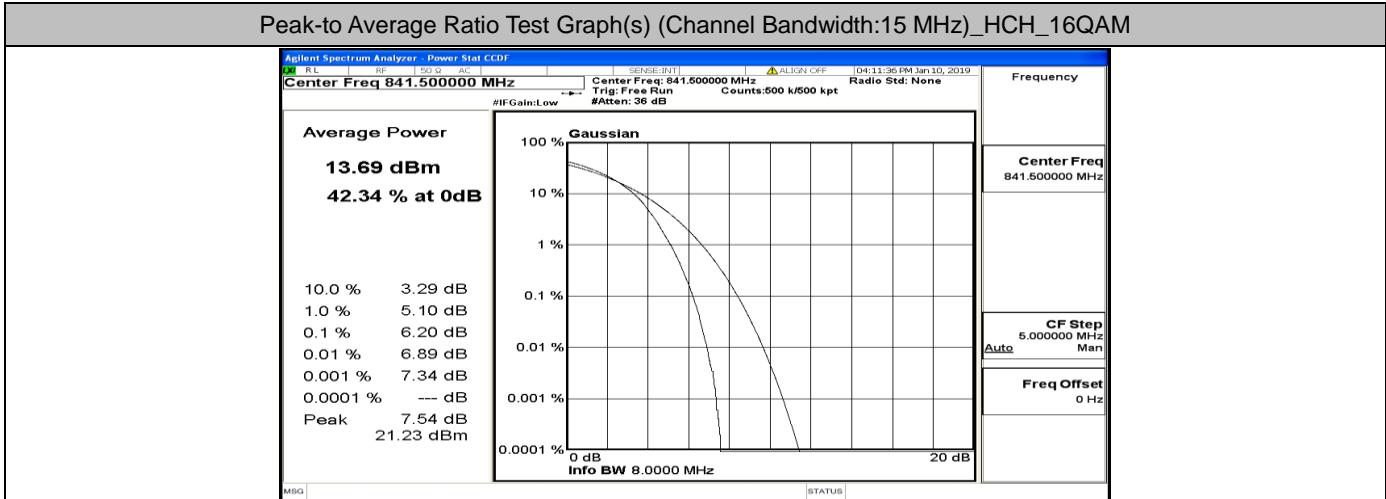


## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_16QAM





### K.3 26dB Bandwidth and Occupied Bandwidth

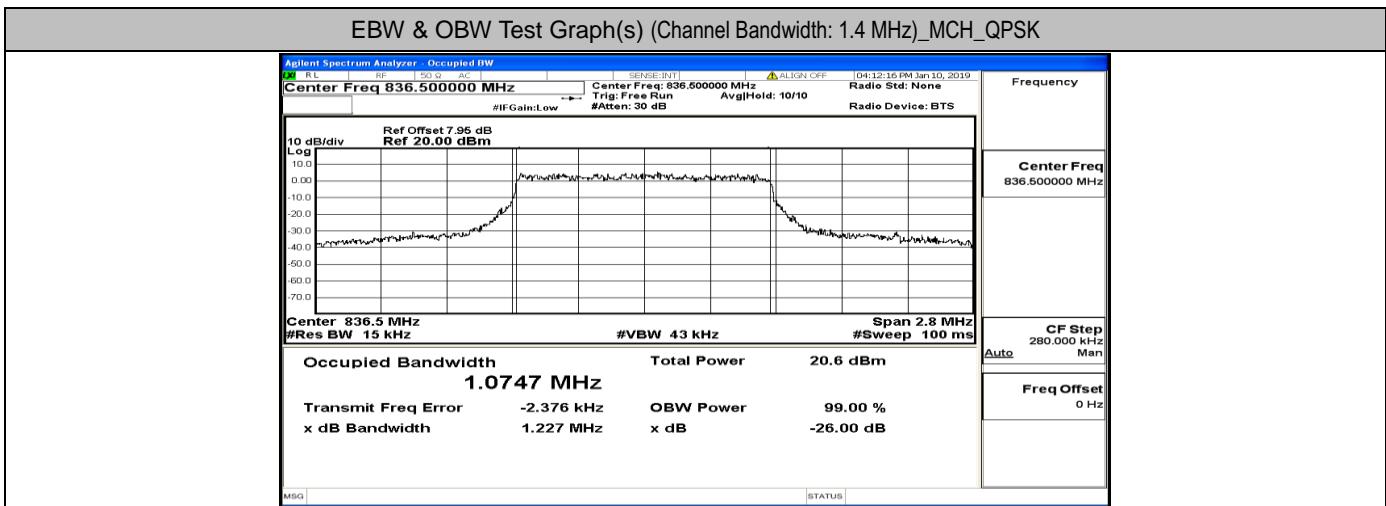
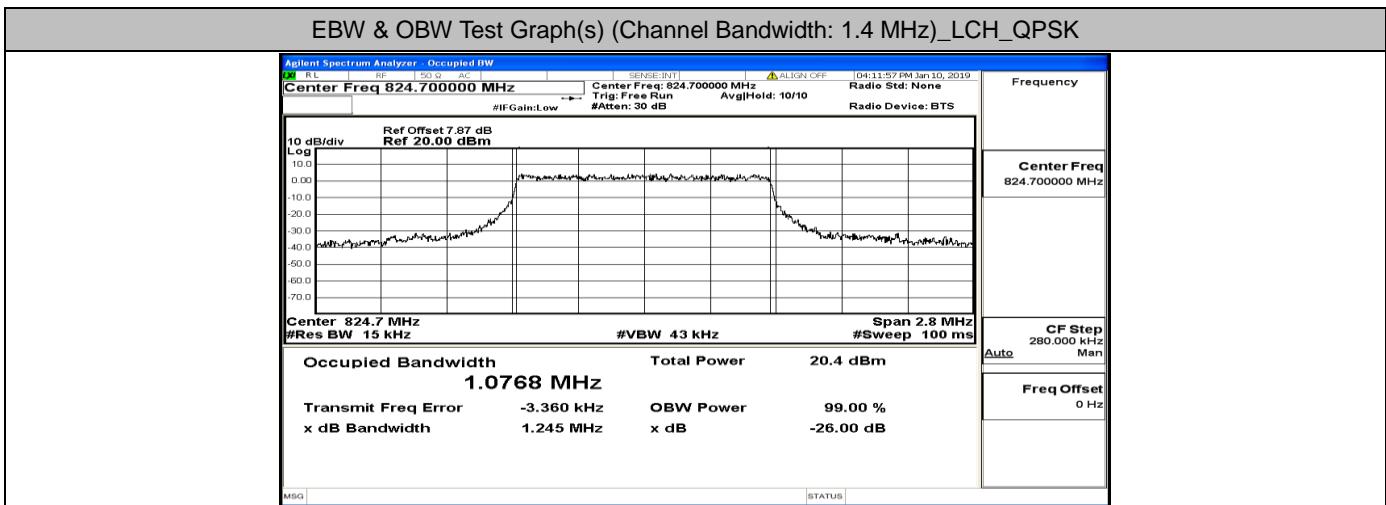
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0768	1.245	PASS
	MCH	1.0747	1.227	PASS
	HCH	1.0795	1.251	PASS
16QAM	LCH	1.0817	1.262	PASS
	MCH	1.0802	1.241	PASS
	HCH	1.0772	1.248	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6858	2.885	PASS
	MCH	2.6842	2.882	PASS
	HCH	2.6865	2.913	PASS
16QAM	LCH	2.6857	2.910	PASS
	MCH	2.6843	2.899	PASS
	HCH	2.6931	2.891	PASS

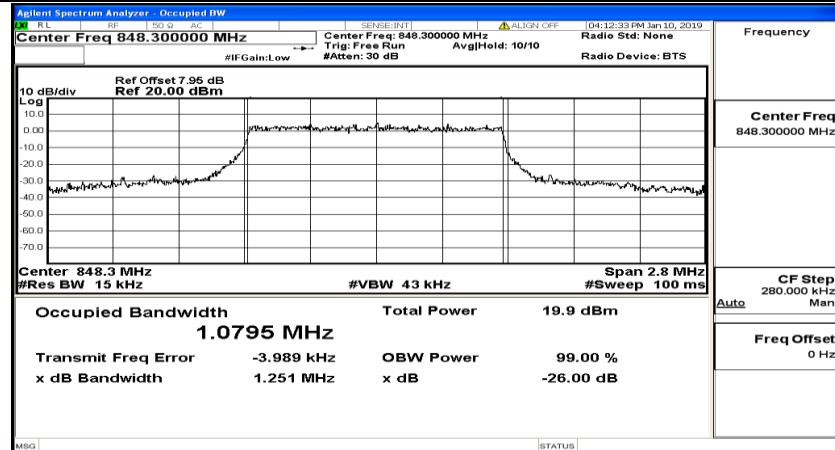
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4767	4.763	PASS
	MCH	4.4753	4.832	PASS
	HCH	4.4710	4.785	PASS
16QAM	LCH	4.4846	4.820	PASS
	MCH	4.4756	4.814	PASS
	HCH	4.4739	4.816	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9423	9.482	PASS
	MCH	8.9156	9.418	PASS
	HCH	8.9288	9.444	PASS
16QAM	LCH	8.9486	9.507	PASS
	MCH	8.9037	9.396	PASS
	HCH	8.9430	9.457	PASS

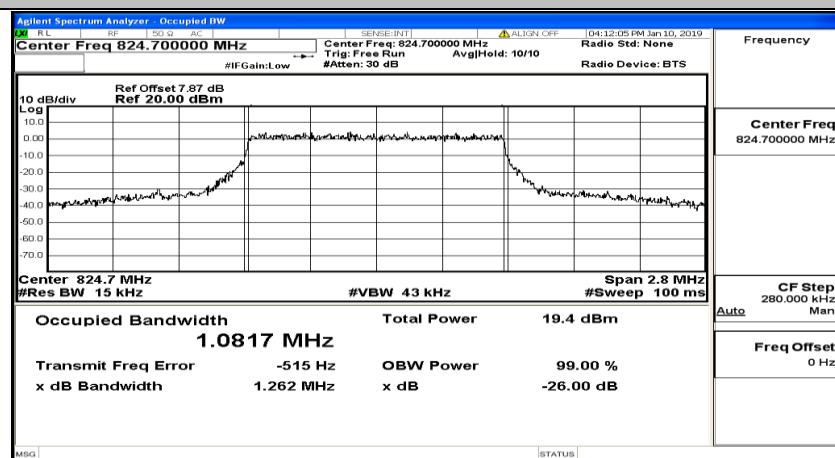
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.411	14.12	PASS
	MCH	13.379	14.07	PASS
	HCH	13.399	14.10	PASS
16QAM	LCH	13.412	14.02	PASS
	MCH	13.376	13.99	PASS
	HCH	13.398	14.00	PASS



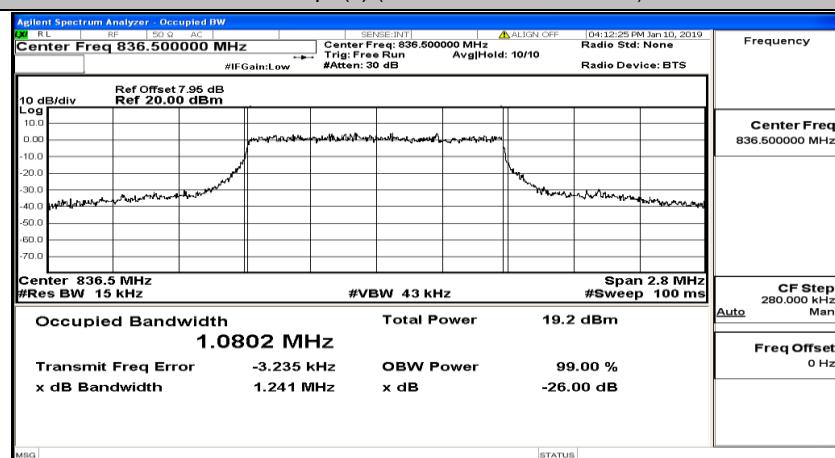
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



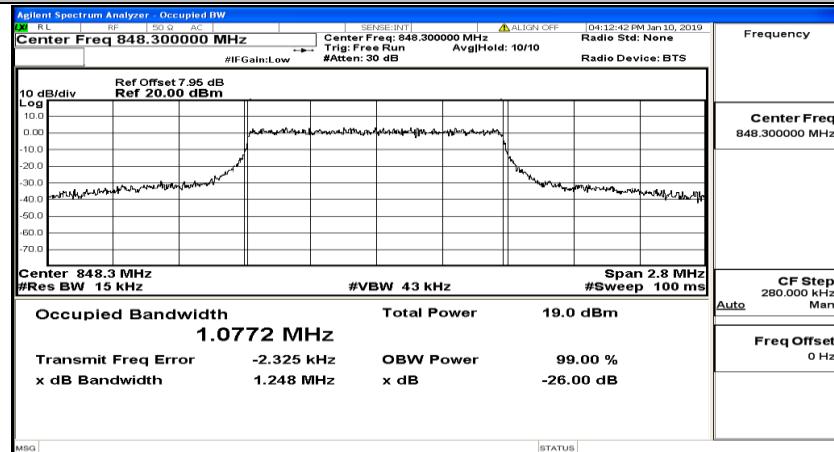
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



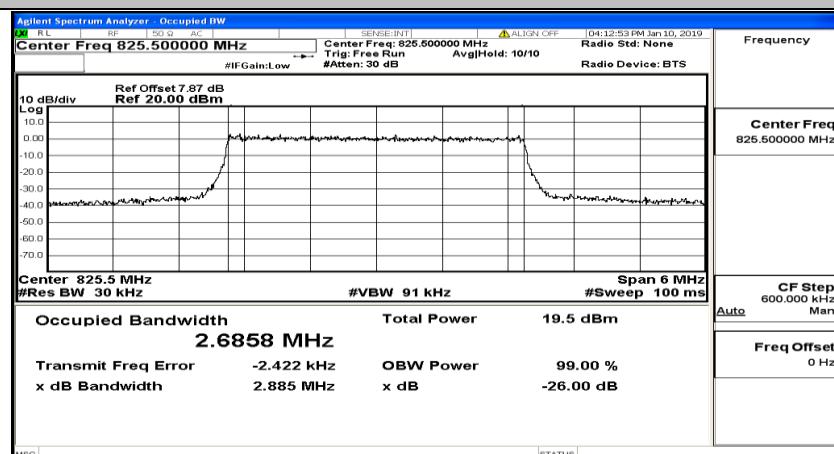
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



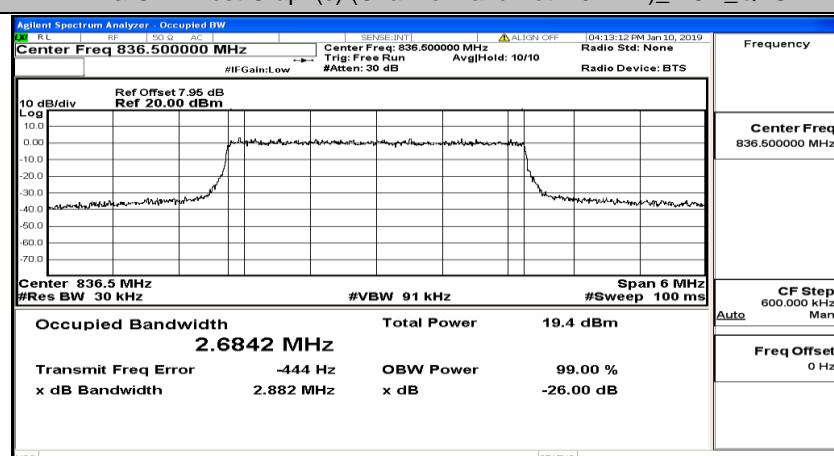
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



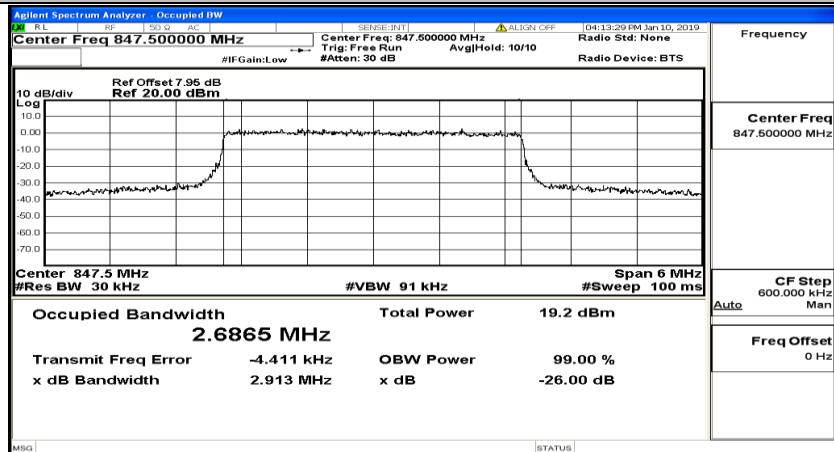
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



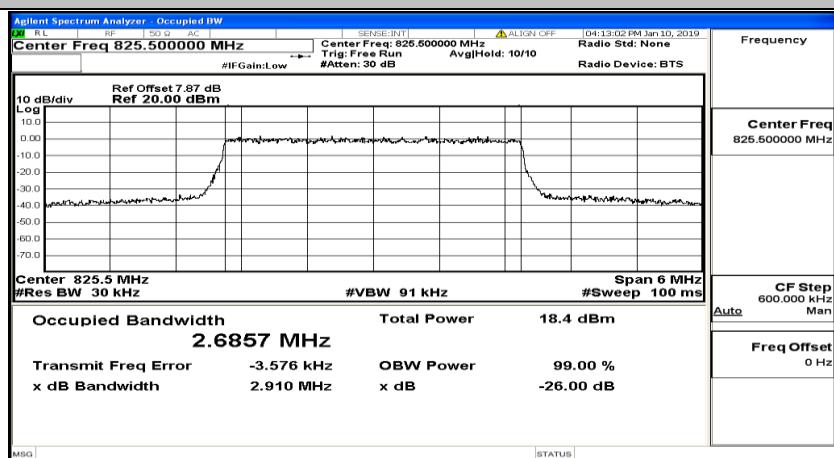
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



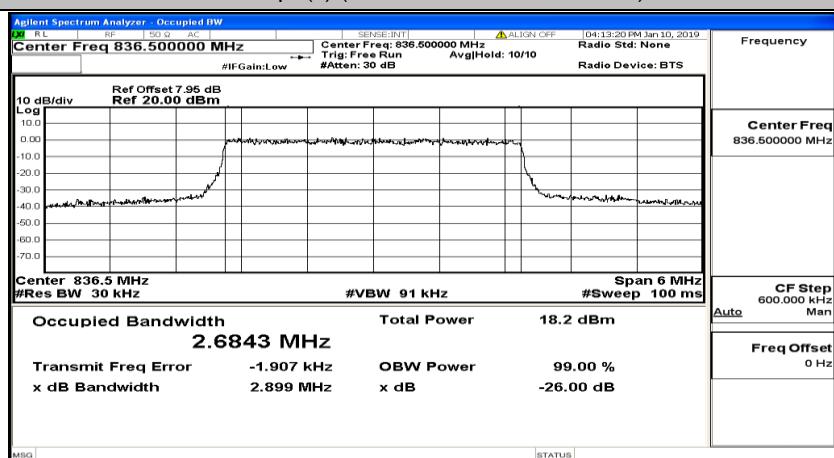
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



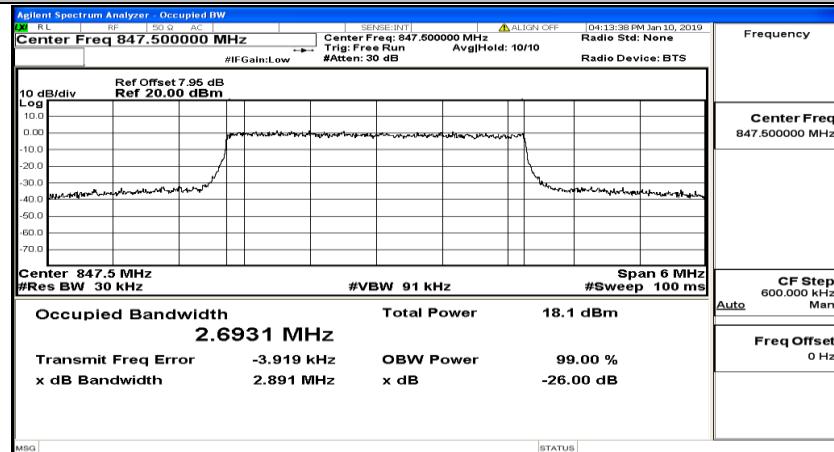
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



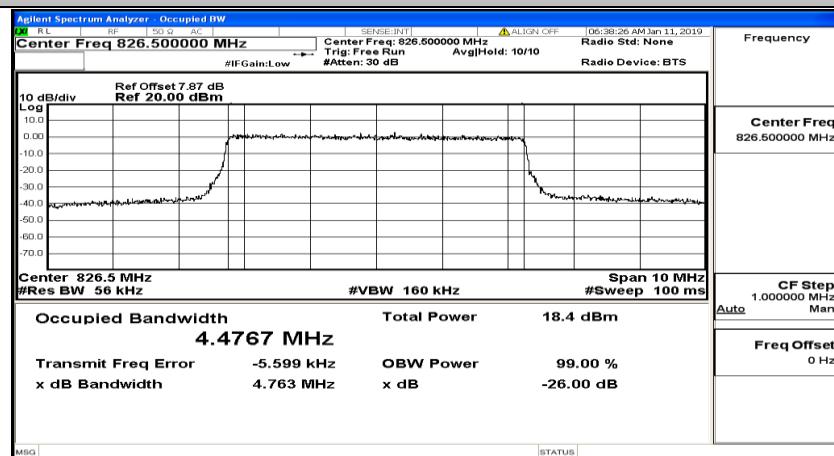
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



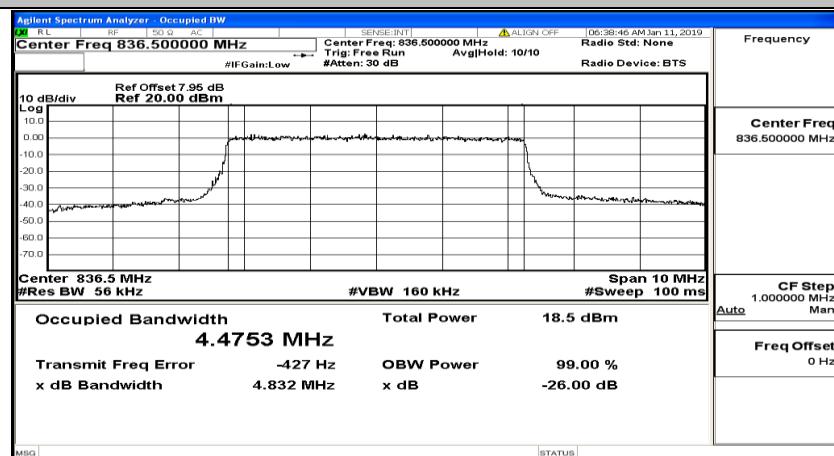
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



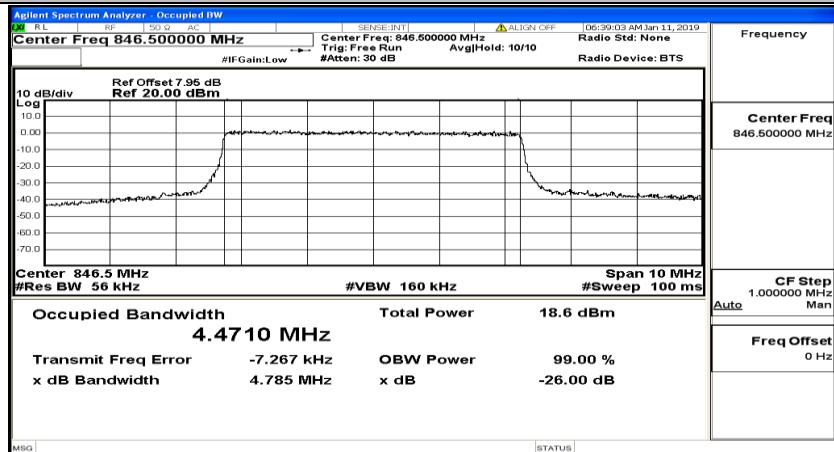
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



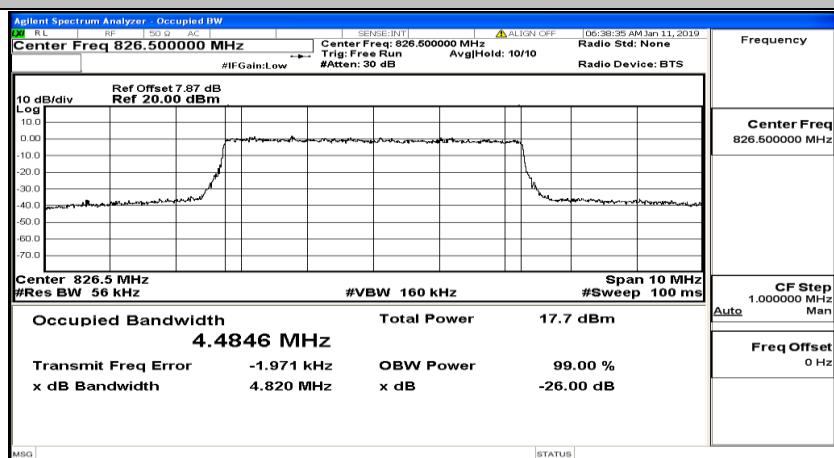
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



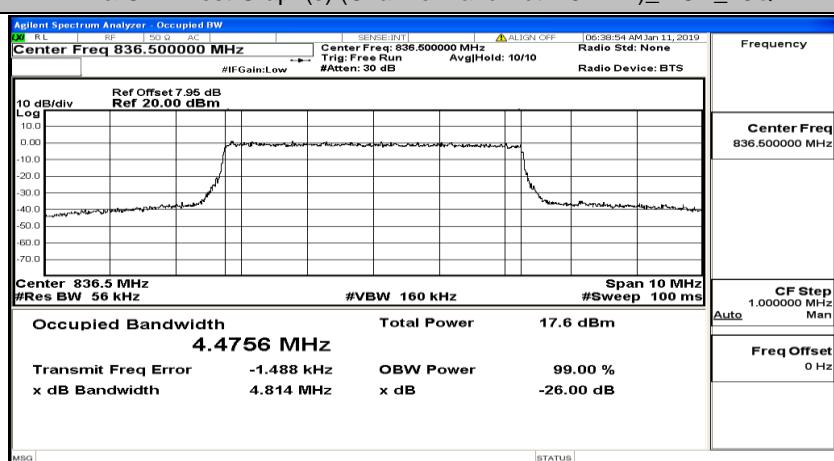
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



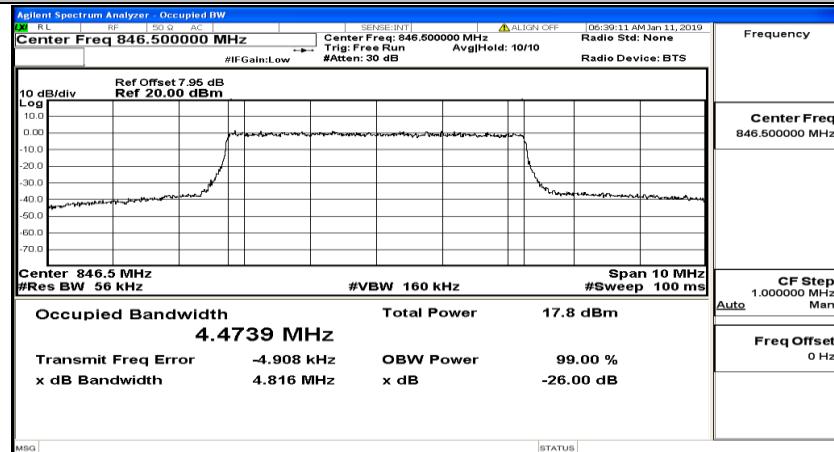
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



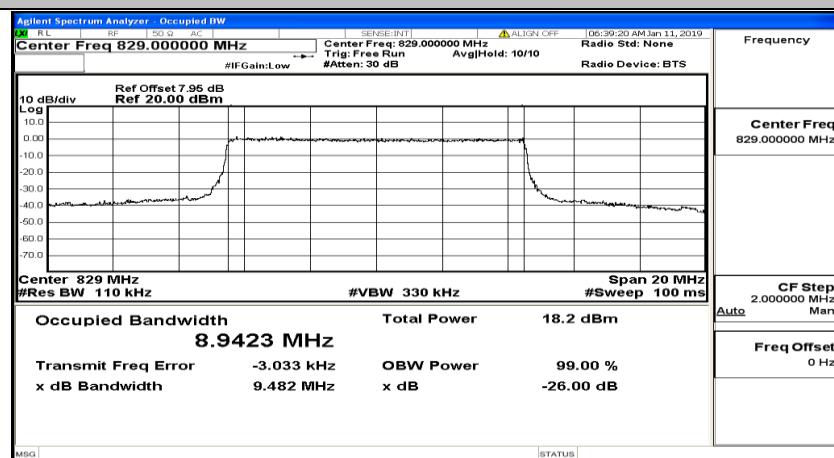
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



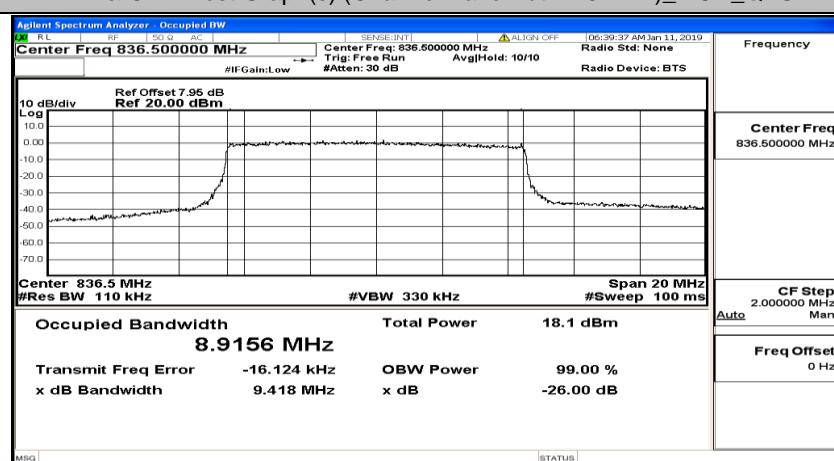
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



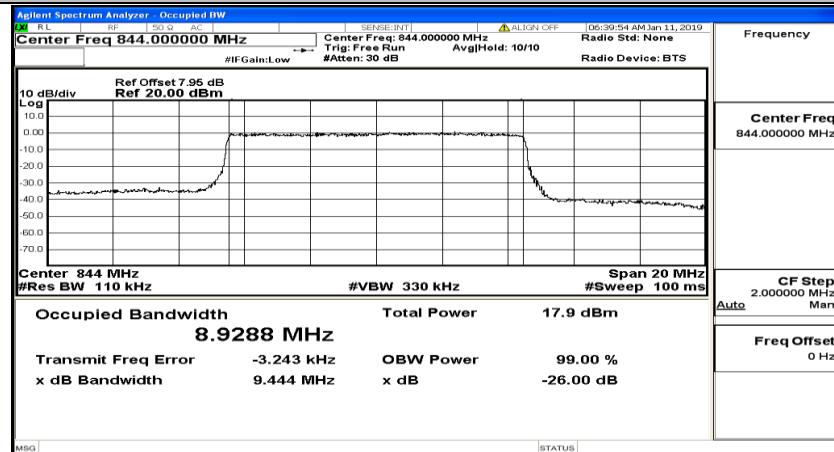
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



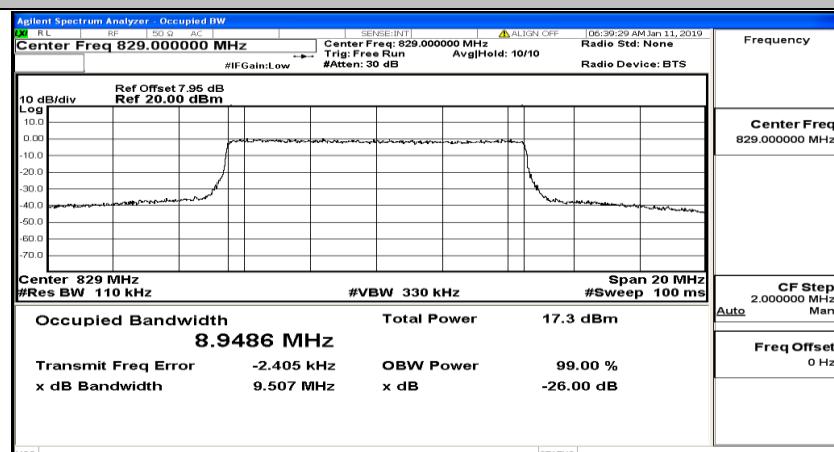
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



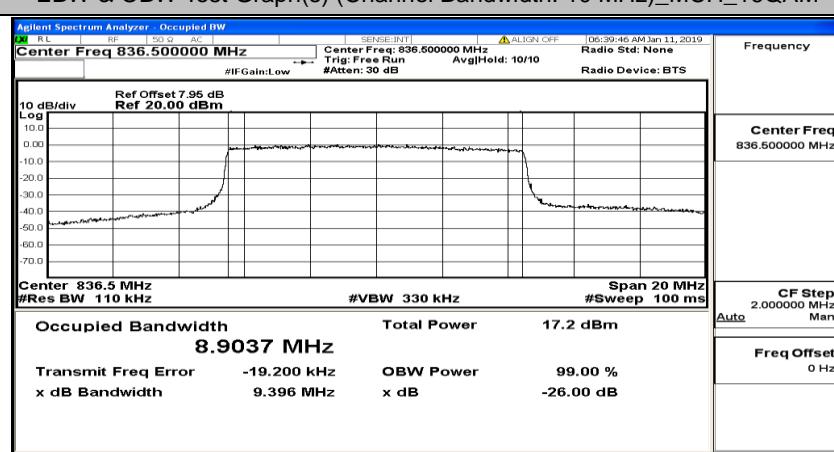
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



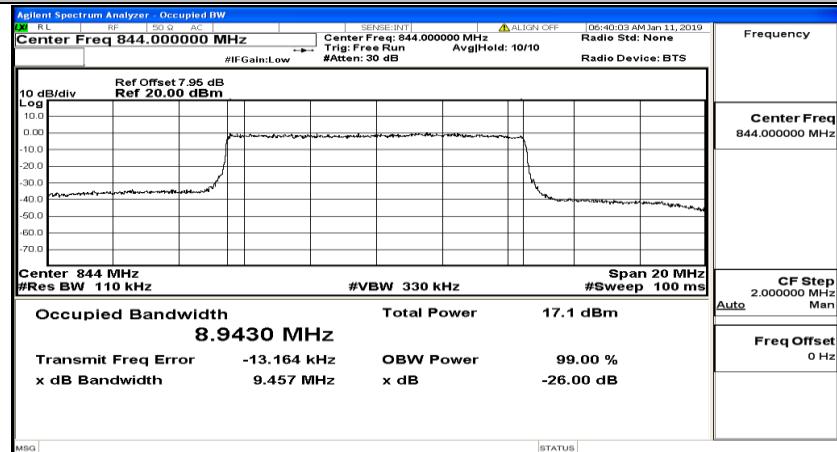
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



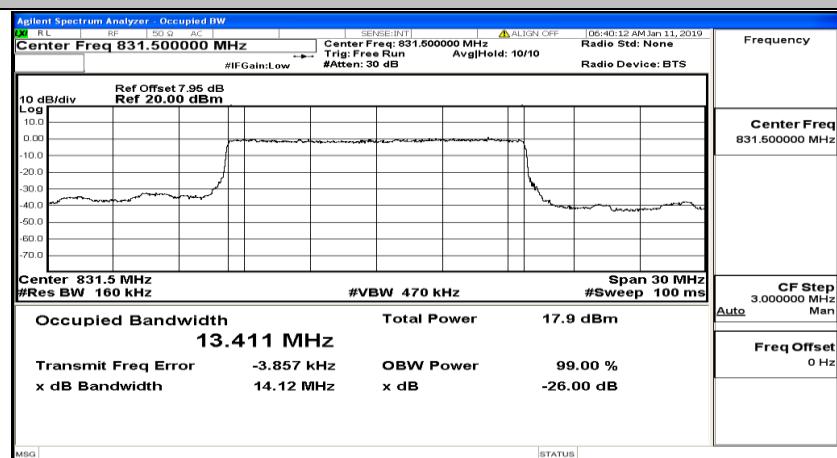
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM



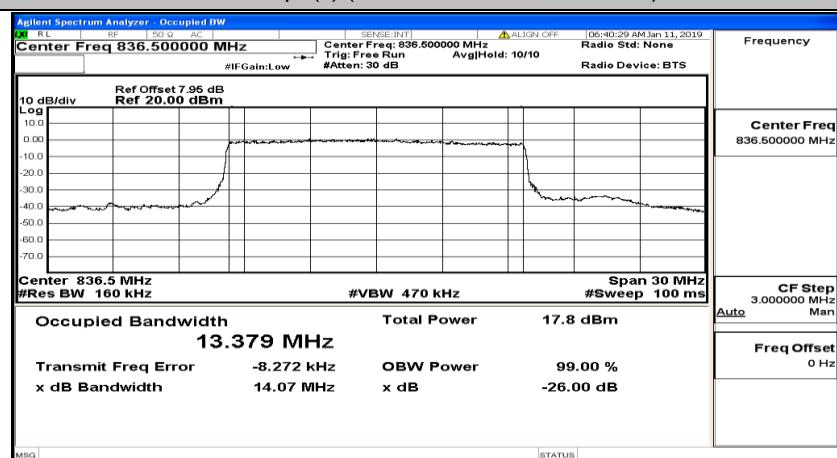
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



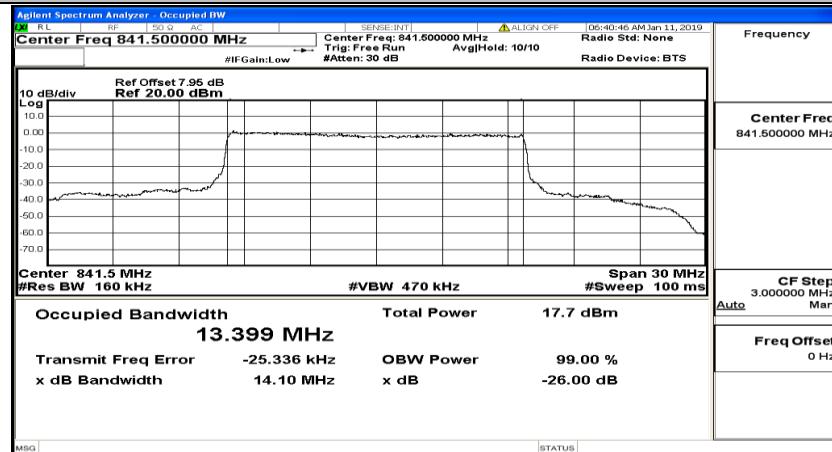
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



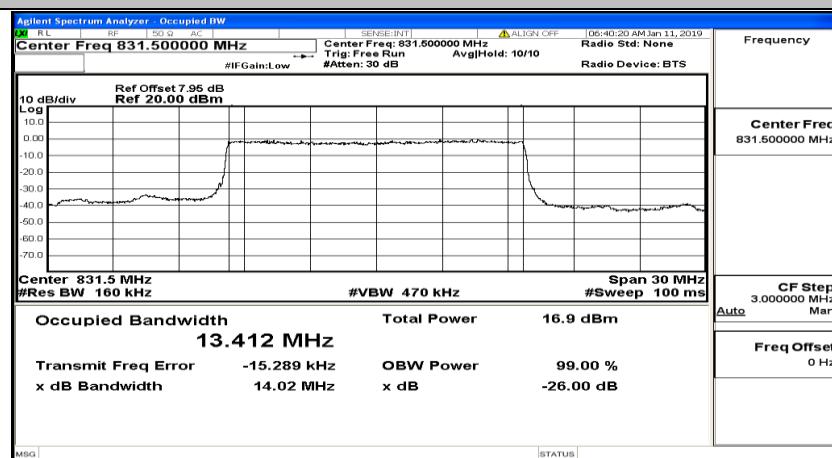
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_QPSK



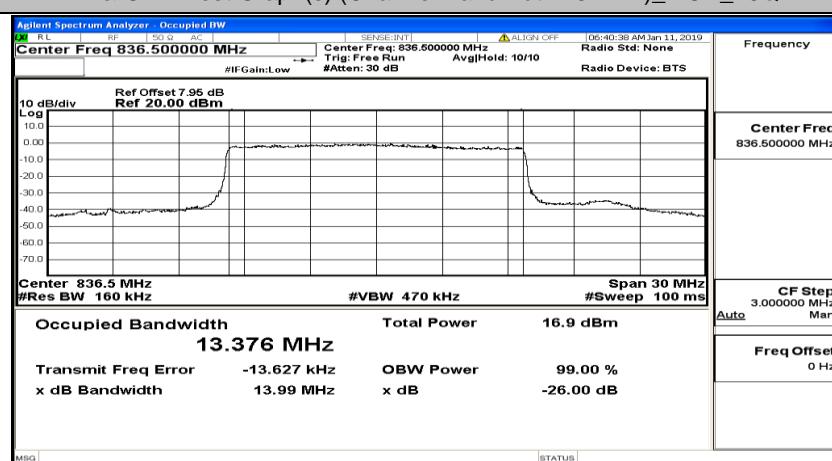
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK

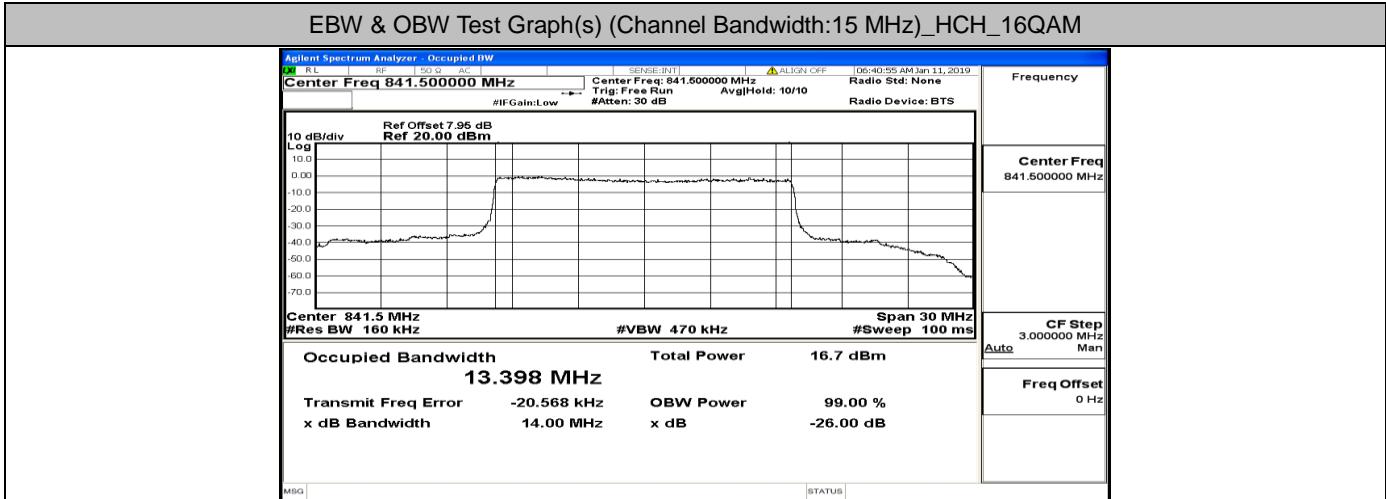


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



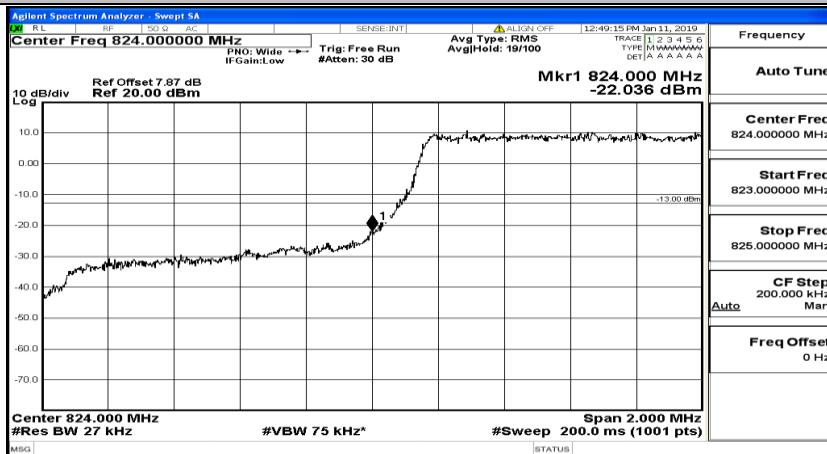
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_16QAM



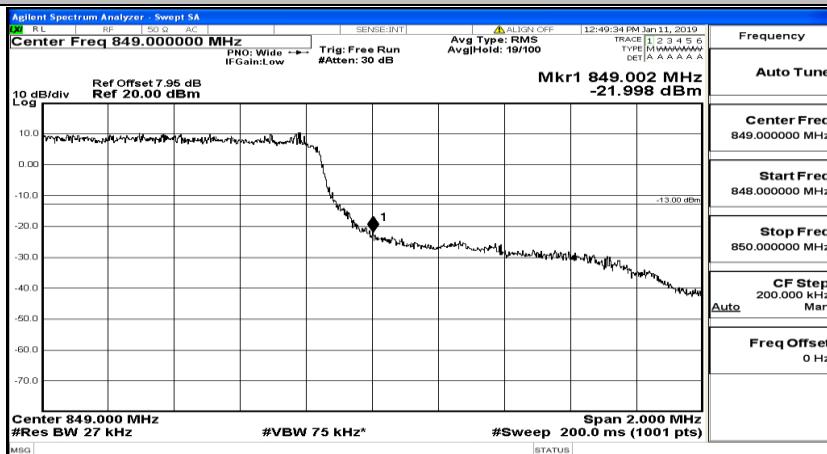


## K.4 Band Edge

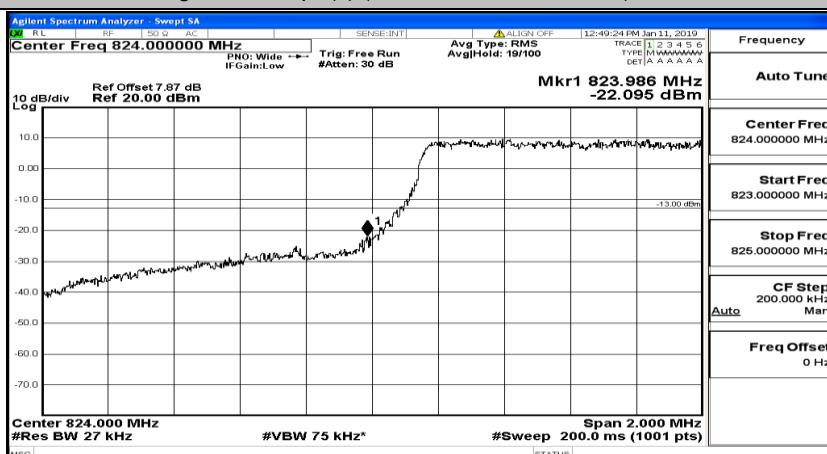
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



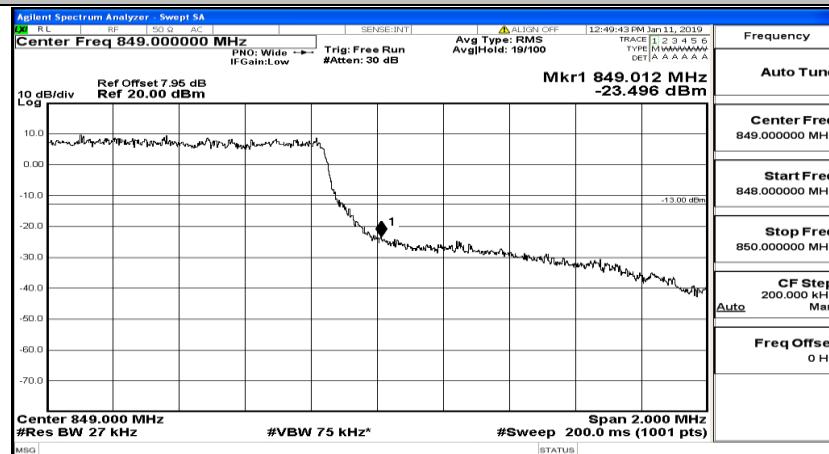
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



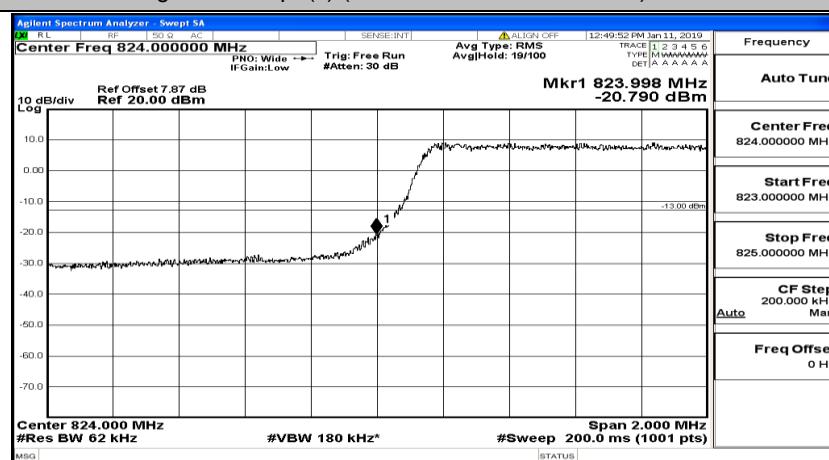
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



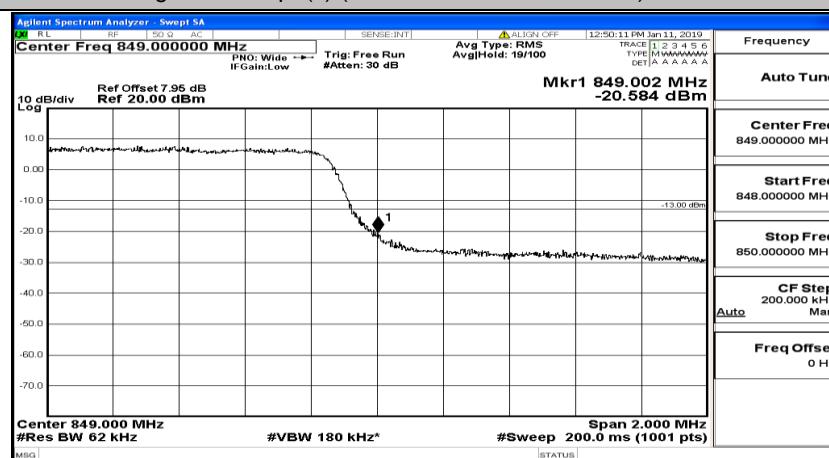
## Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



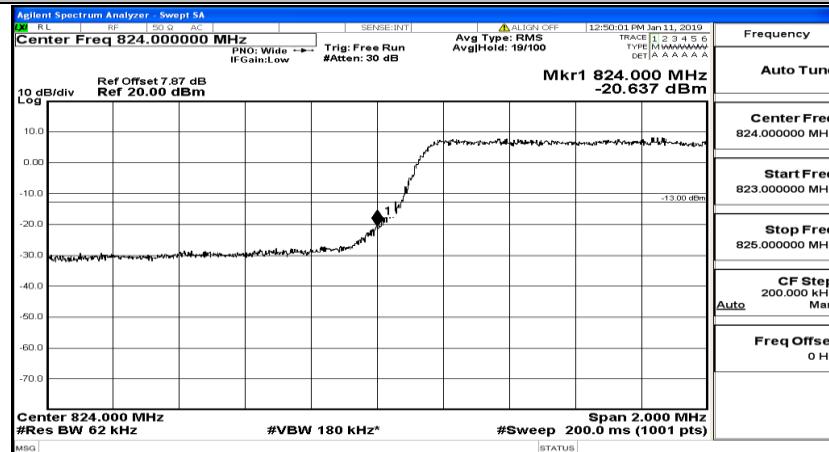
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



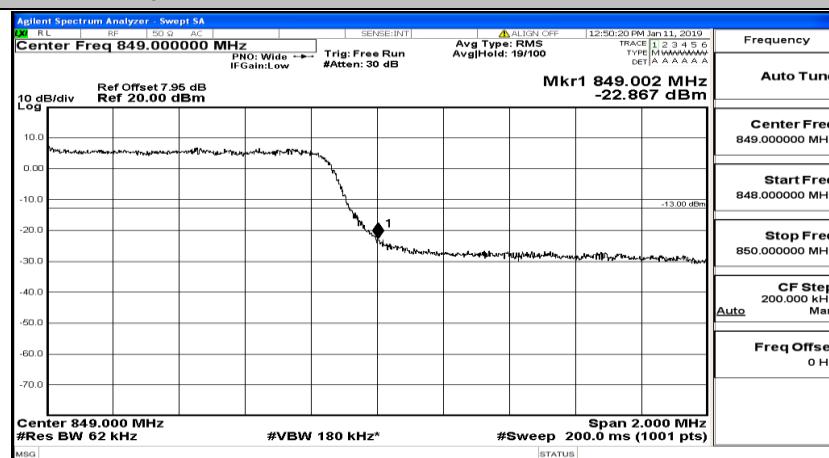
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



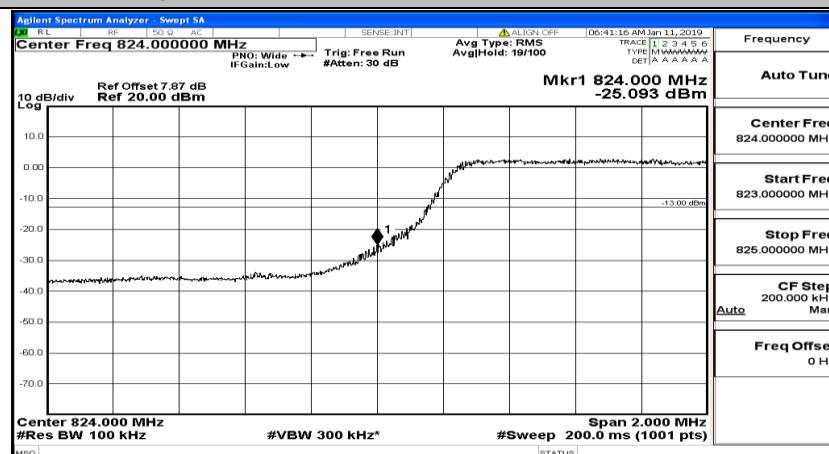
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



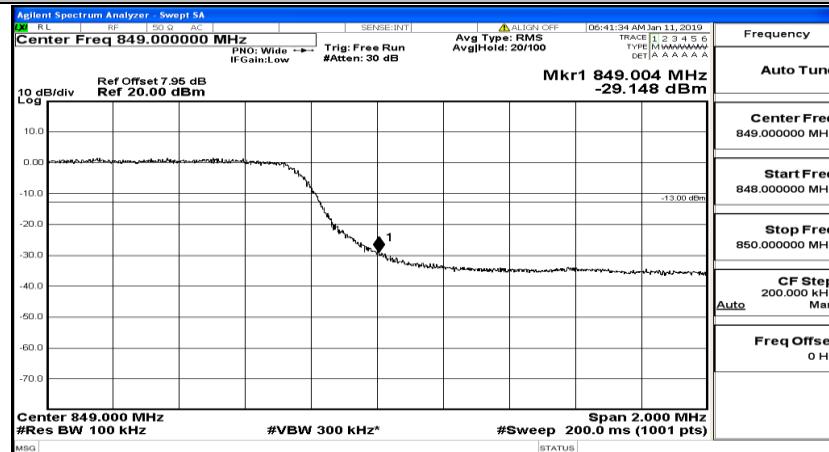
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



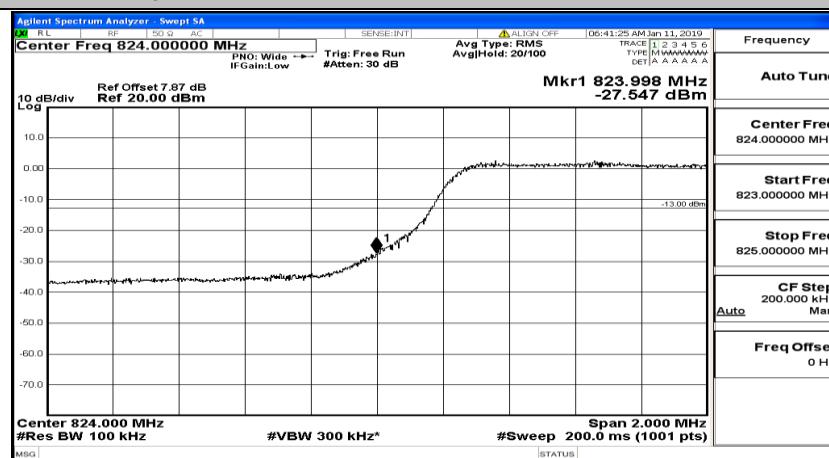
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



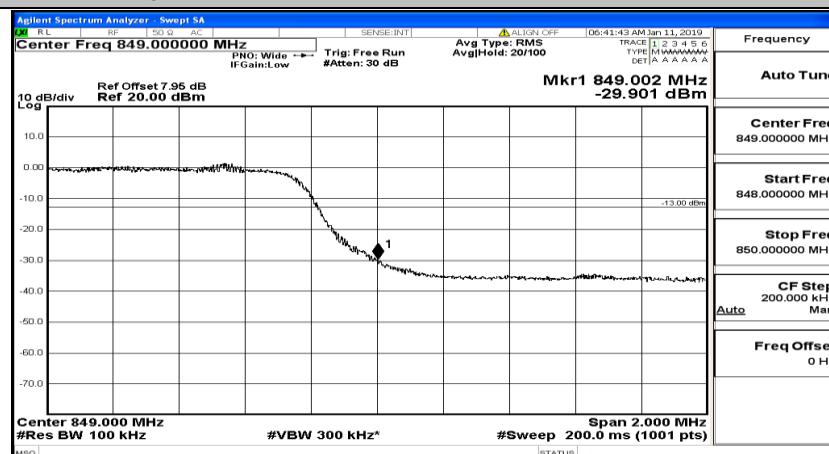
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



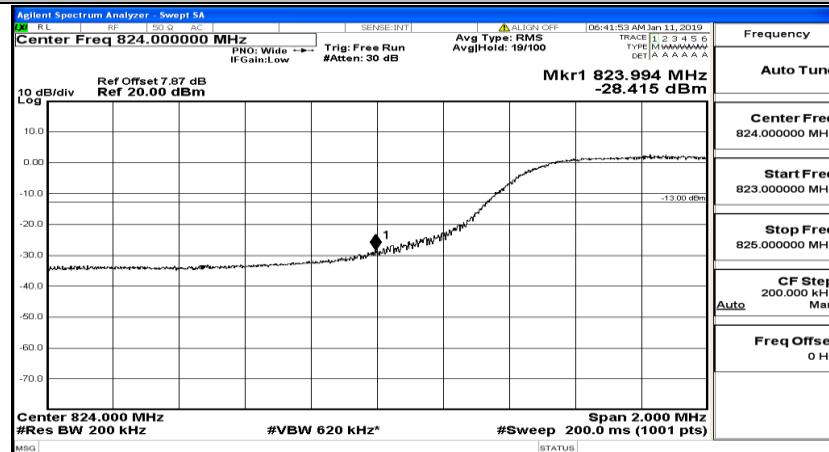
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



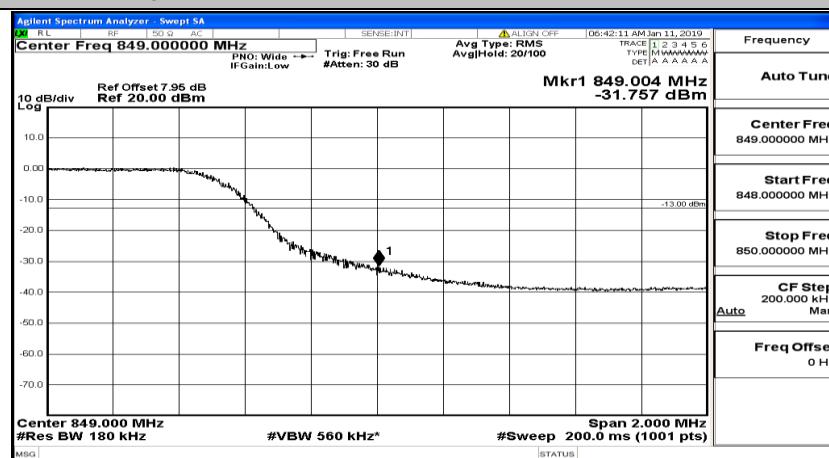
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



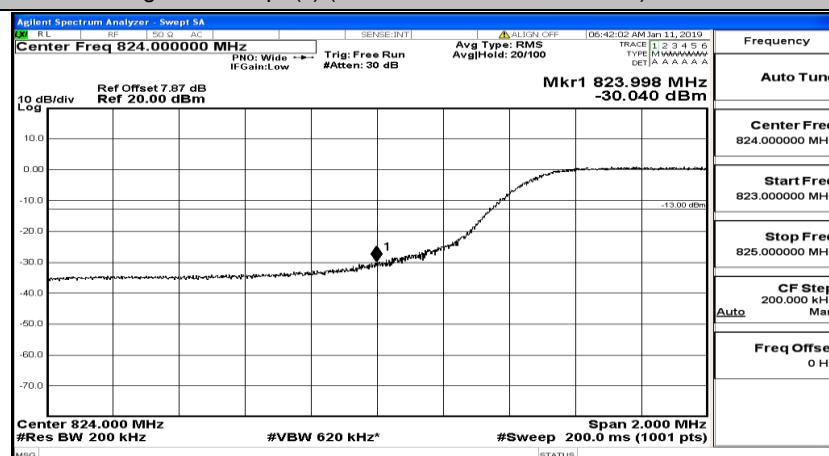
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



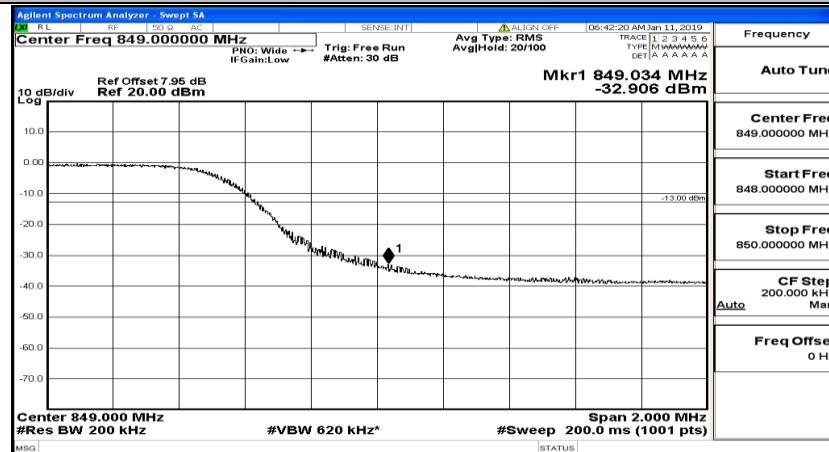
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



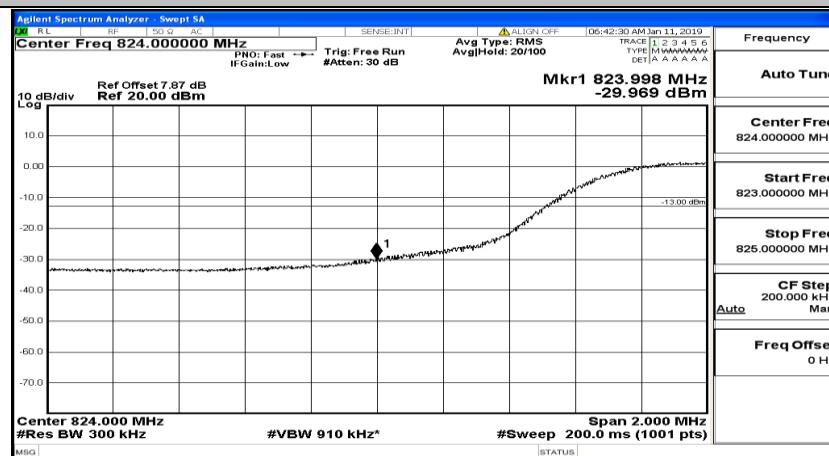
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



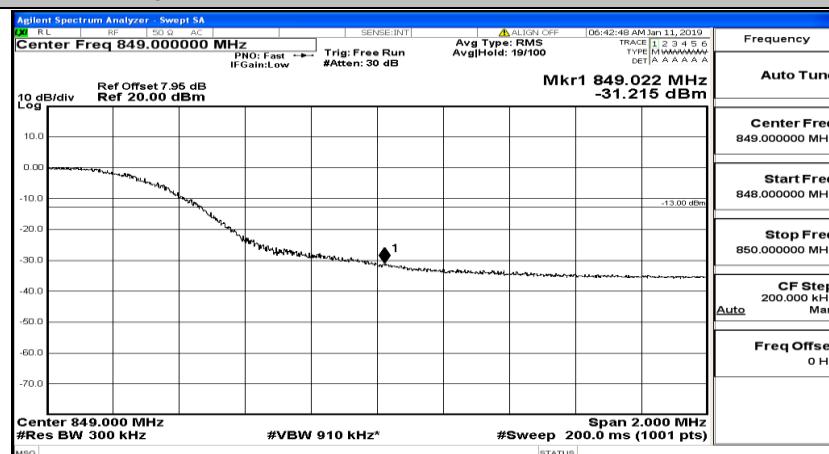
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



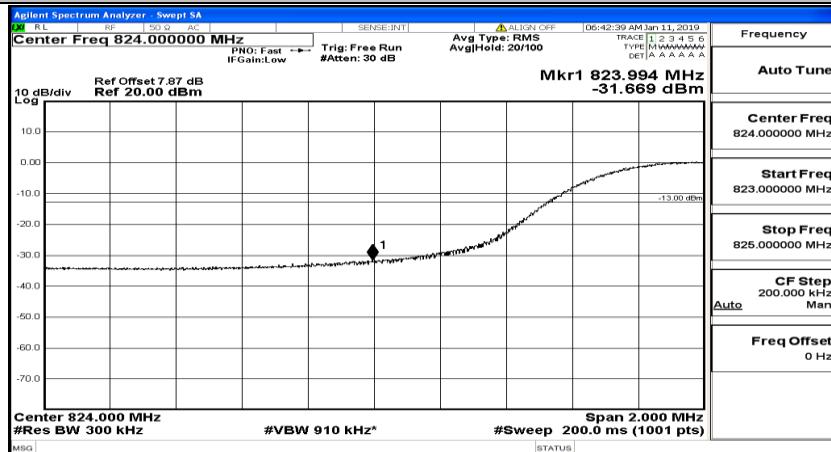
## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



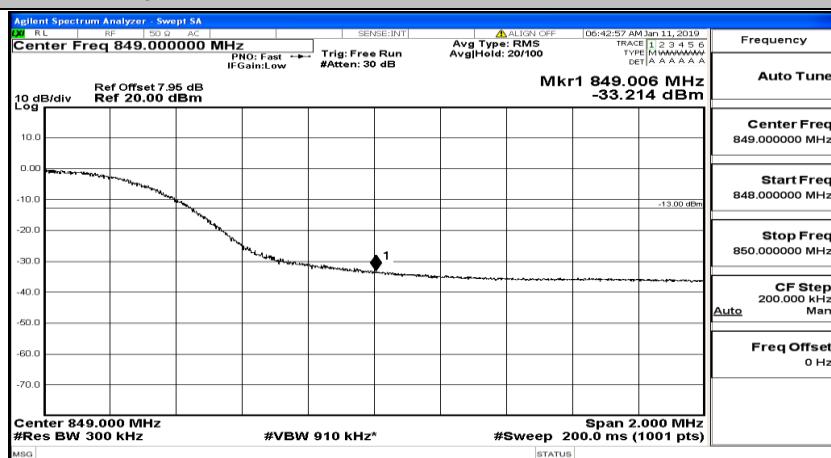
## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK



## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_16QAM



## K.5 Conducted Spurious Emission

CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK

