

## Appendix G: Test Data for E-UTRA Band 12

**Product Name: 4G PHONE**  
**Test Model: BSCUS01**

### Environmental Conditions

Temperature:	24.9 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

### G.1 Conducted Output Power

<SIM1>

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	23.02	22.29	PASS
		1	3	23.16	22.40	PASS
		1	5	23.04	22.41	PASS
		3	0	23.10	22.26	PASS
		3	2	23.19	22.31	PASS
		3	3	23.15	22.35	PASS
		6	0	22.19	21.09	PASS
	MCH	1	0	23.00	22.87	PASS
		1	3	23.05	22.89	PASS
		1	5	22.95	22.96	PASS
		3	0	23.09	22.69	PASS
		3	2	23.09	22.76	PASS
		3	3	23.02	22.82	PASS
		6	0	22.70	21.59	PASS
	HCH	1	0	23.79	22.69	PASS
		1	3	23.59	22.87	PASS
		1	5	22.71	22.62	PASS
		3	0	23.71	22.79	PASS
		3	2	23.62	22.76	PASS
		3	3	23.29	22.70	PASS
		6	0	22.79	21.84	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	23.02	22.29	PASS
		1	7	23.39	22.54	PASS
		1	14	23.22	22.47	PASS
		8	0	22.15	21.19	PASS
		8	4	22.31	21.38	PASS
		8	7	22.39	21.39	PASS
		15	0	22.27	21.28	PASS
	MCH	1	0	23.51	22.76	PASS
		1	7	23.60	22.84	PASS
		1	14	23.34	22.81	PASS
		8	0	22.78	21.77	PASS
		8	4	22.86	21.91	PASS
		8	7	22.79	21.81	PASS
		15	0	22.75	21.76	PASS
	HCH	1	0	23.80	22.83	PASS
		1	7	23.77	22.88	PASS
		1	14	22.96	22.87	PASS
		8	0	22.83	21.75	PASS
		8	4	22.94	21.79	PASS
		8	7	22.73	21.67	PASS
		15	0	22.67	21.64	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	22.93	22.29	PASS
		1	12	23.53	22.84	PASS
		1	24	23.44	22.71	PASS
		12	0	22.97	22.11	PASS
		12	6	22.32	21.46	PASS
		12	13	22.52	21.66	PASS
		25	0	22.32	21.39	PASS
	MCH	1	0	23.57	22.72	PASS
		1	12	23.65	22.79	PASS
		1	24	23.75	22.84	PASS
		12	0	22.98	22.12	PASS
		12	6	22.74	21.92	PASS
		12	13	22.79	21.86	PASS
		25	0	22.85	21.94	PASS
	HCH	1	0	23.69	22.58	PASS
		1	12	23.17	22.49	PASS
		1	24	23.11	22.43	PASS
		12	0	22.52	21.53	PASS
		12	6	22.77	21.81	PASS
		12	13	22.58	21.72	PASS
		25	0	22.55	21.58	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	23.06	22.36	PASS
		1	24	23.57	22.76	PASS
		1	49	23.68	22.86	PASS
		25	0	23.10	21.95	PASS
		25	12	22.45	21.56	PASS
		25	25	22.24	21.25	PASS
		50	0	22.21	21.14	PASS
	MCH	1	0	23.42	22.61	PASS
		1	24	23.67	22.99	PASS
		1	49	23.56	22.77	PASS
		25	0	22.95	21.95	PASS
		25	12	22.78	21.80	PASS
		25	25	22.93	21.95	PASS
		50	0	23.07	21.99	PASS
	HCH	1	0	23.58	22.88	PASS
		1	24	23.52	22.70	PASS
		1	49	23.53	22.86	PASS
		25	0	22.89	22.00	PASS
		25	12	22.80	21.84	PASS
		25	25	22.86	21.94	PASS
		50	0	22.99	22.07	PASS

&lt;SIM2&gt;

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	22.88	22.12	PASS
		1	3	23.00	22.25	PASS
		1	5	22.97	22.30	PASS
		3	0	23.01	22.17	PASS
		3	2	23.11	22.23	PASS
		3	3	22.99	22.22	PASS
		6	0	22.06	21.02	PASS
	MCH	1	0	22.91	22.76	PASS
		1	3	22.96	22.75	PASS
		1	5	22.84	22.83	PASS
		3	0	23.01	22.58	PASS
		3	2	22.94	22.60	PASS
		3	3	22.89	22.73	PASS
		6	0	22.59	21.45	PASS
	HCH	1	0	23.70	22.62	PASS
		1	3	23.48	22.74	PASS
		1	5	22.56	22.49	PASS
		3	0	23.62	22.67	PASS
		3	2	23.49	22.61	PASS
		3	3	23.22	22.53	PASS
		6	0	22.62	21.77	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.90	22.16	PASS
		1	7	23.23	22.39	PASS
		1	14	23.07	22.31	PASS
		8	0	22.03	21.02	PASS
		8	4	22.21	21.28	PASS
		8	7	22.23	21.29	PASS
		15	0	22.11	21.13	PASS
	MCH	1	0	23.38	22.68	PASS
		1	7	23.47	22.77	PASS
		1	14	23.19	22.67	PASS
		8	0	22.66	21.63	PASS
		8	4	22.71	21.76	PASS
		8	7	22.69	21.66	PASS
		15	0	22.63	21.65	PASS
	HCH	1	0	23.71	22.73	PASS
		1	7	23.66	22.77	PASS
		1	14	22.84	22.78	PASS
		8	0	22.67	21.67	PASS
		8	4	22.83	21.65	PASS
		8	7	22.63	21.58	PASS
		15	0	22.58	21.47	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	22.79	22.16	PASS
		1	12	23.40	22.70	PASS
		1	24	23.36	22.56	PASS
		12	0	22.89	21.95	PASS
		12	6	22.25	21.33	PASS
		12	13	22.38	21.51	PASS
		25	0	22.15	21.23	PASS
	MCH	1	0	23.47	22.62	PASS
		1	12	23.51	22.66	PASS
		1	24	23.65	22.69	PASS
		12	0	22.87	21.96	PASS
		12	6	22.62	21.79	PASS
		12	13	22.63	21.79	PASS
		25	0	22.73	21.82	PASS
	HCH	1	0	23.56	22.44	PASS
		1	12	23.04	22.40	PASS
		1	24	22.97	22.27	PASS
		12	0	22.45	21.40	PASS
		12	6	22.61	21.71	PASS
		12	13	22.45	21.56	PASS
		25	0	22.45	21.50	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.92	22.25	PASS
		1	24	23.42	22.62	PASS
		1	49	23.59	22.76	PASS
		25	0	22.95	21.84	PASS
		25	12	22.35	21.41	PASS
		25	25	22.15	21.08	PASS
		50	0	22.13	21.03	PASS
	MCH	1	0	23.28	22.53	PASS
		1	24	23.53	22.89	PASS
		1	49	23.40	22.68	PASS
		25	0	22.82	21.85	PASS
		25	12	22.63	21.66	PASS
		25	25	22.80	21.82	PASS
		50	0	23.00	21.89	PASS
	HCH	1	0	23.47	22.78	PASS
		1	24	23.43	22.61	PASS
		1	49	23.36	22.77	PASS
		25	0	22.77	21.91	PASS
		25	12	22.66	21.77	PASS
		25	25	22.77	21.80	PASS
		50	0	22.89	21.95	PASS

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

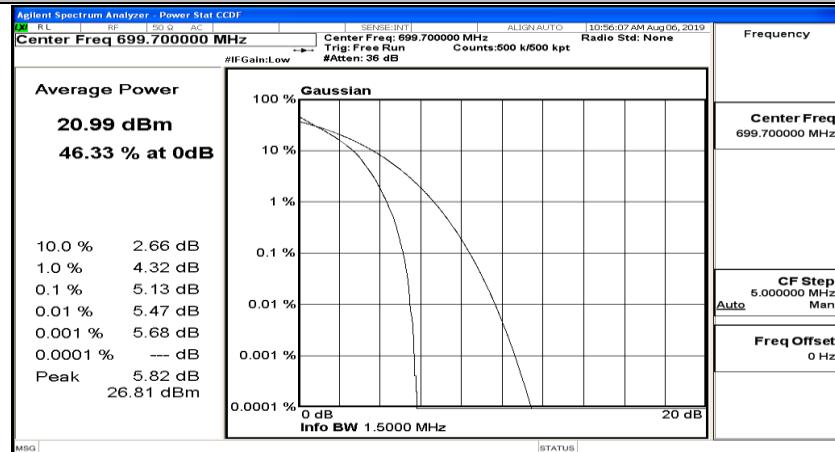
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.13	<13	PASS
	MCH	4.73	<13	PASS
	HCH	4.12	<13	PASS
16QAM	LCH	6.03	<13	PASS
	MCH	5.73	<13	PASS
	HCH	4.99	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.47	<13	PASS
	MCH	5.15	<13	PASS
	HCH	4.58	<13	PASS
16QAM	LCH	6.45	<13	PASS
	MCH	6.08	<13	PASS
	HCH	5.34	<13	PASS

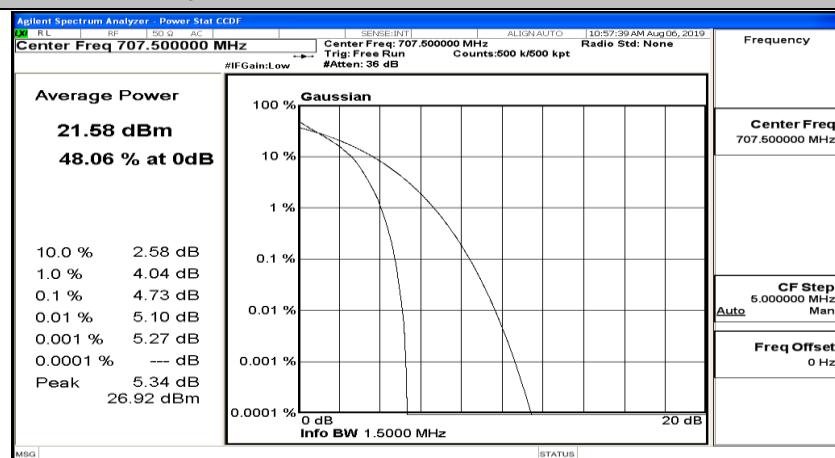
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.29	<13	PASS
	MCH	5.11	<13	PASS
	HCH	4.72	<13	PASS
16QAM	LCH	6.13	<13	PASS
	MCH	5.9	<13	PASS
	HCH	5.57	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.1	<13	PASS
	MCH	5.17	<13	PASS
	HCH	5.08	<13	PASS
16QAM	LCH	5.99	<13	PASS
	MCH	5.93	<13	PASS
	HCH	5.86	<13	PASS

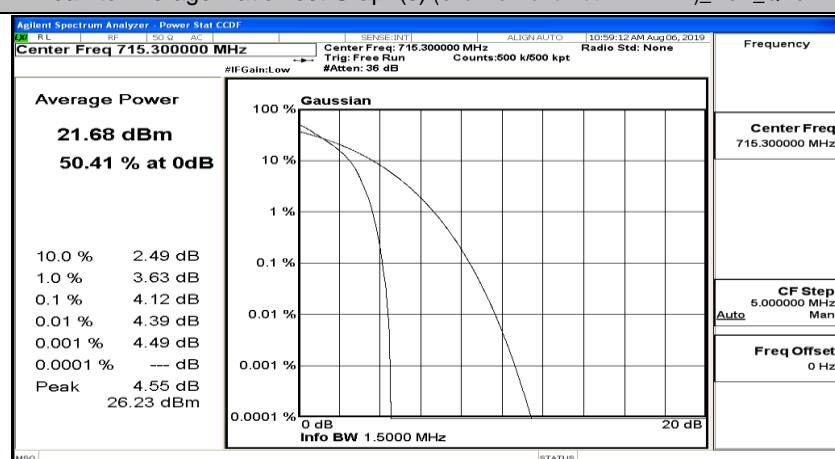
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



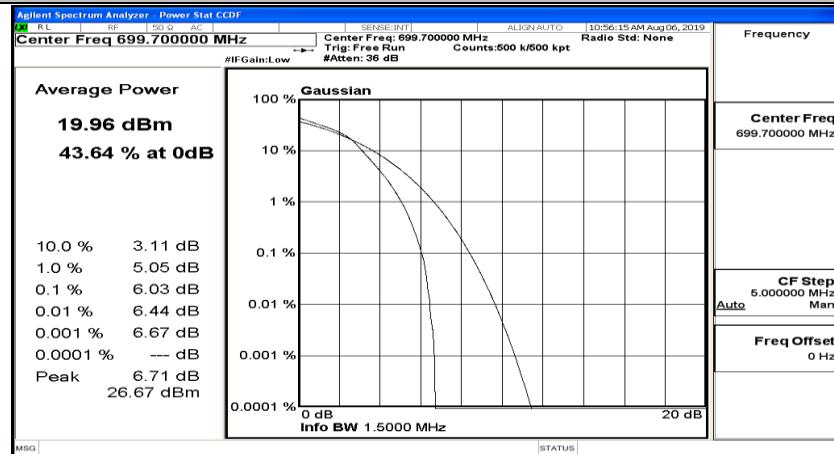
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



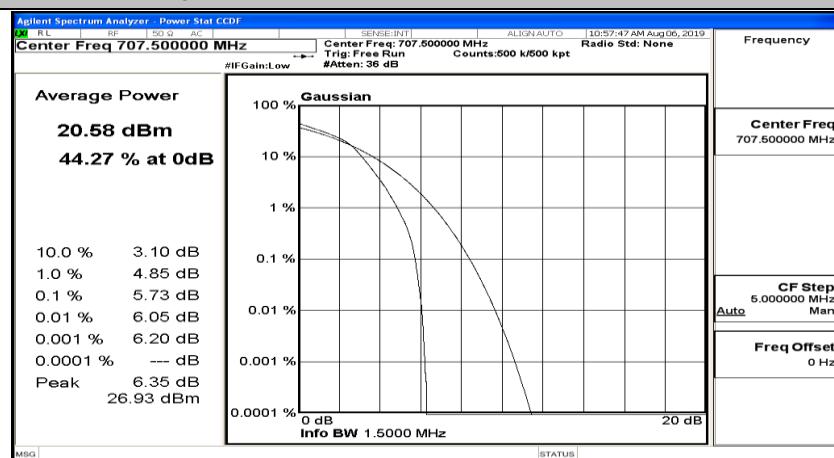
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



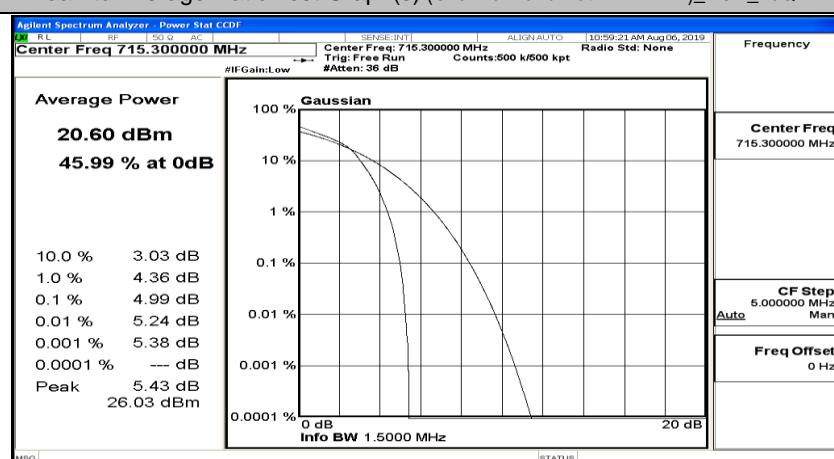
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



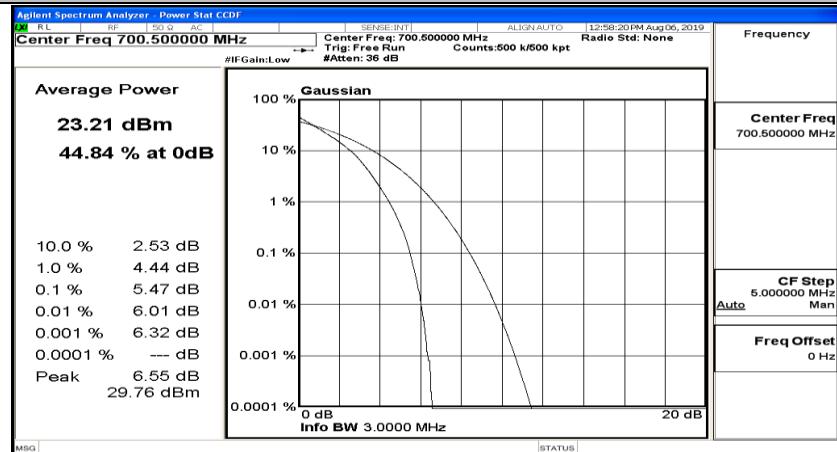
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



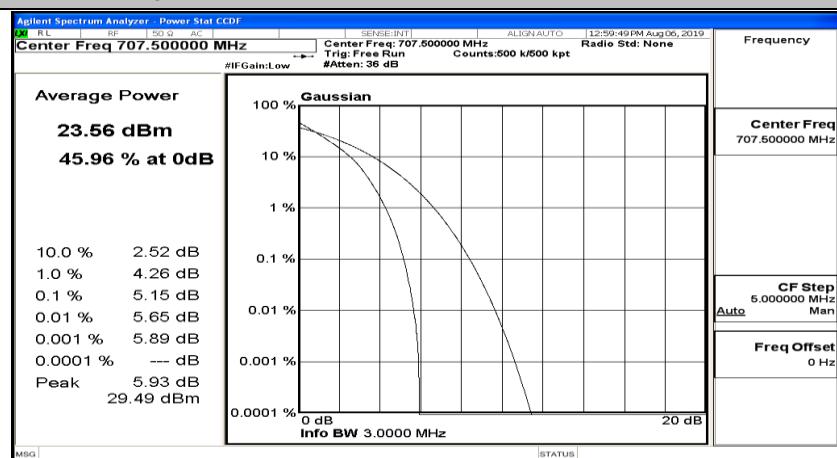
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



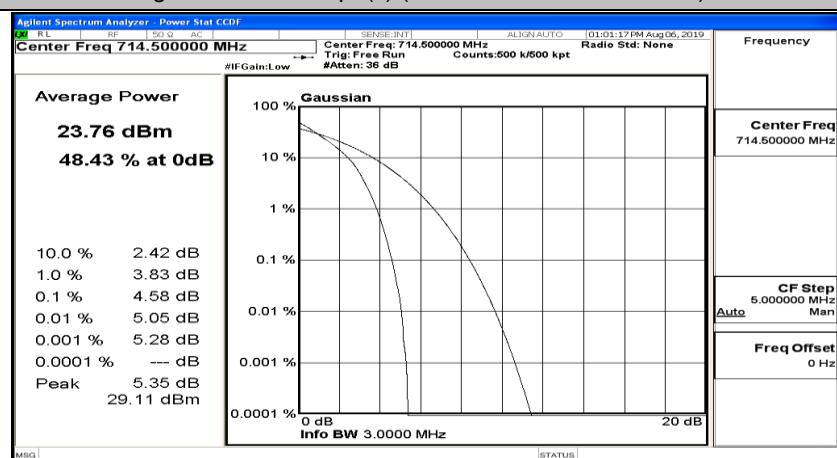
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



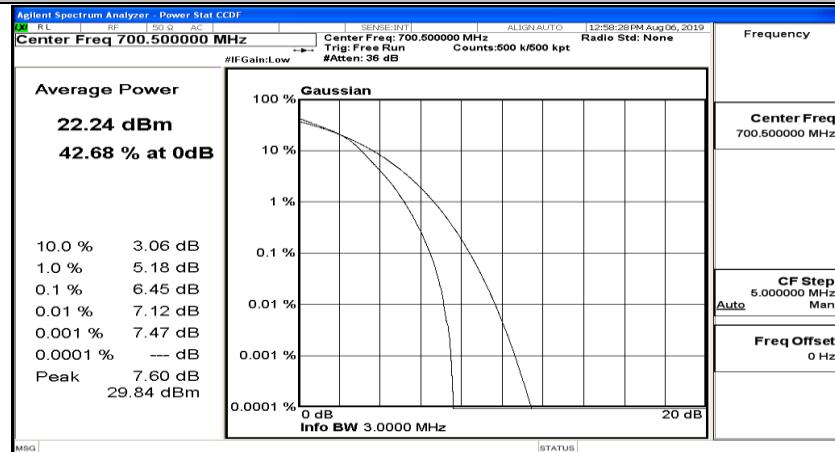
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



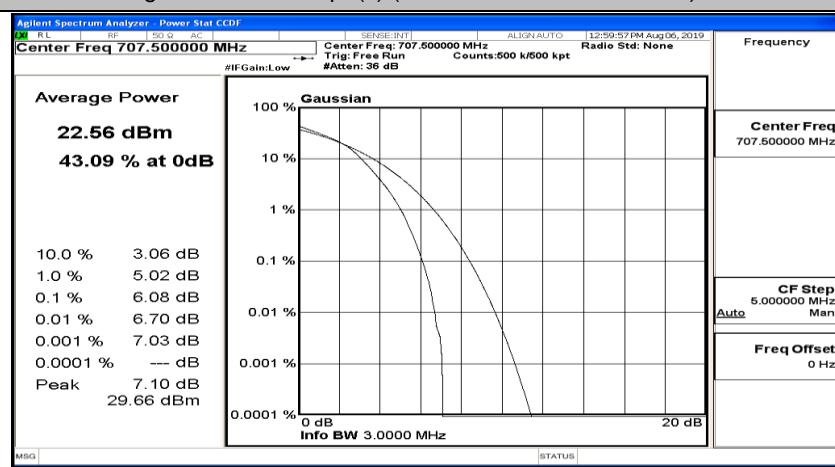
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



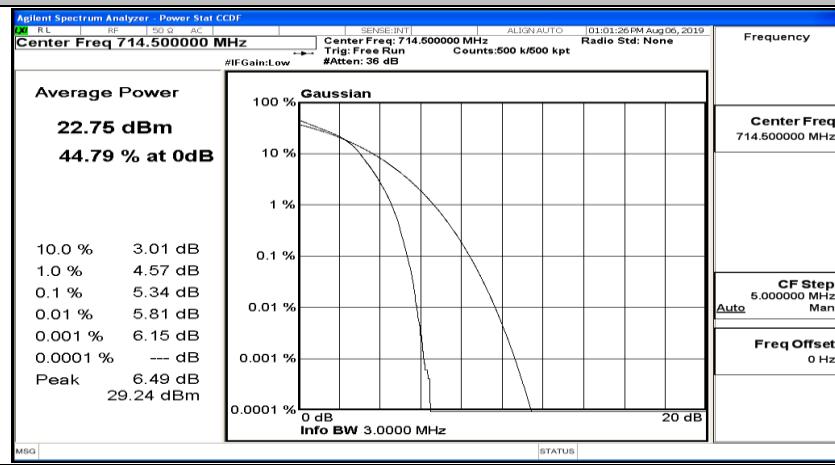
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



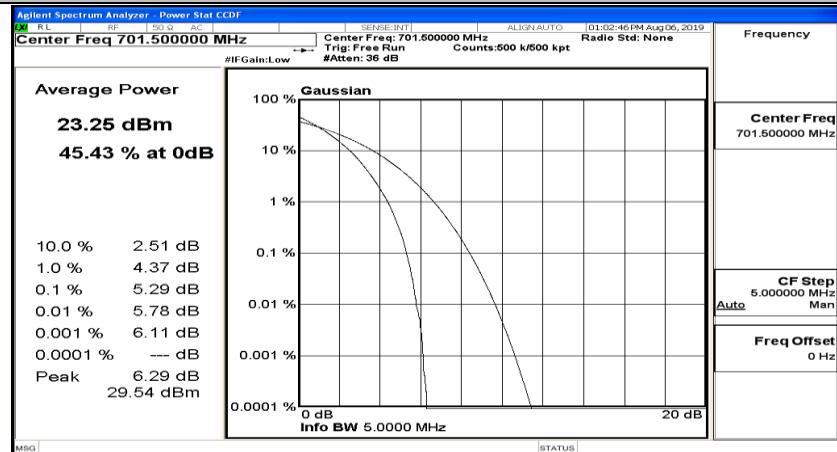
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



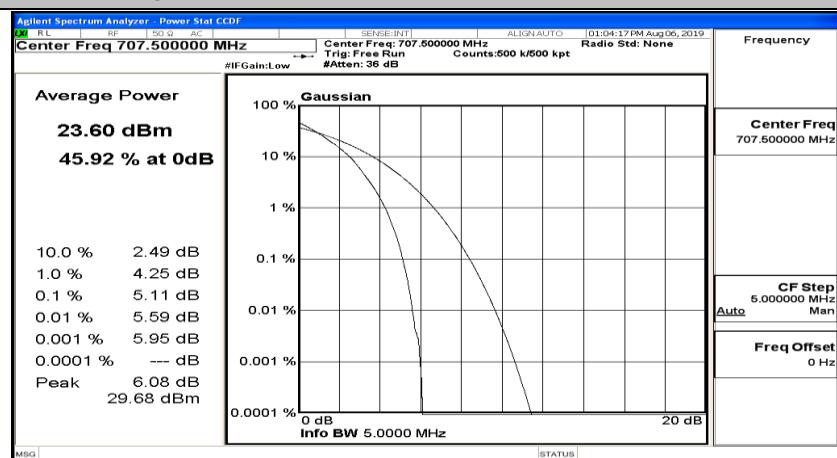
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



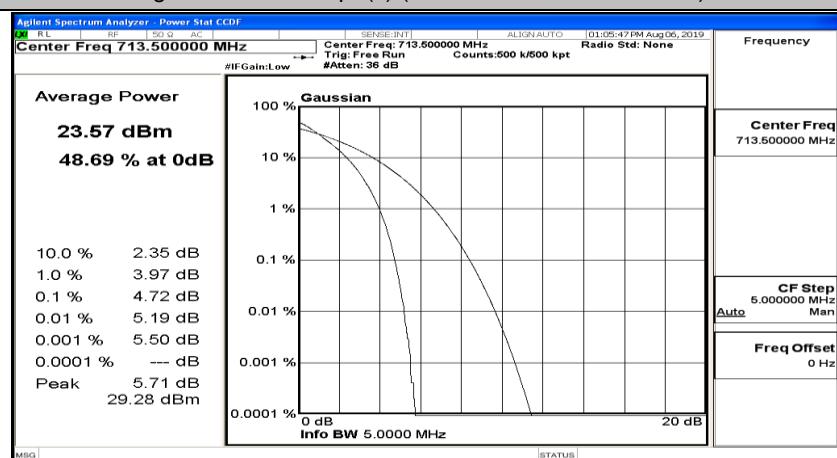
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



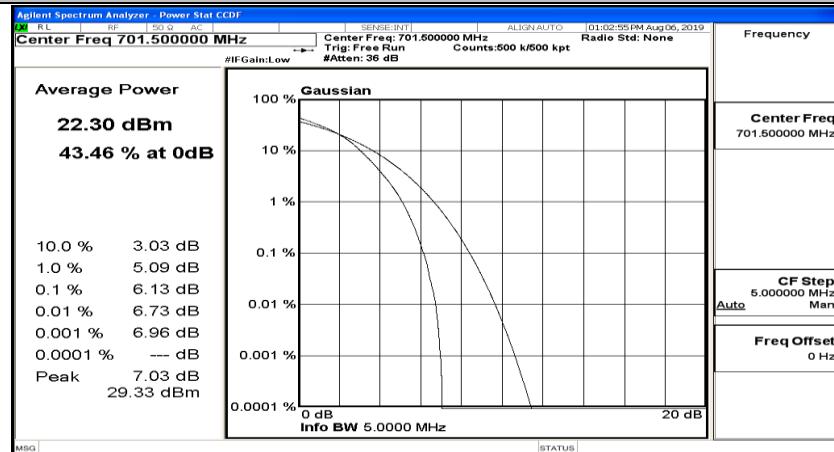
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



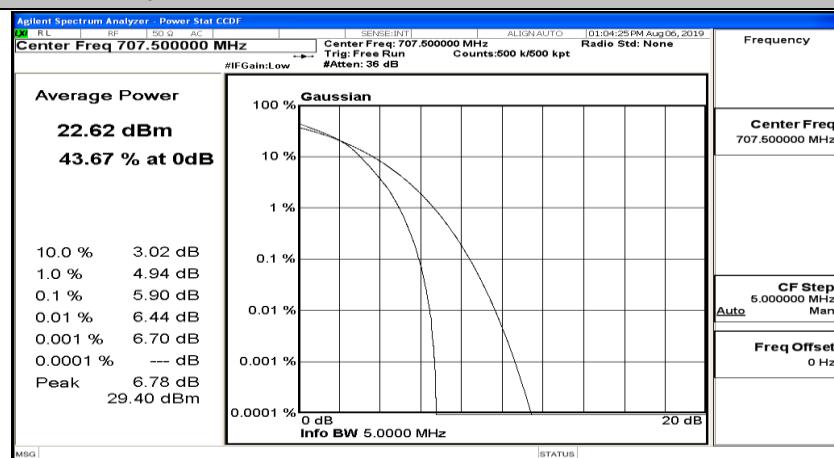
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



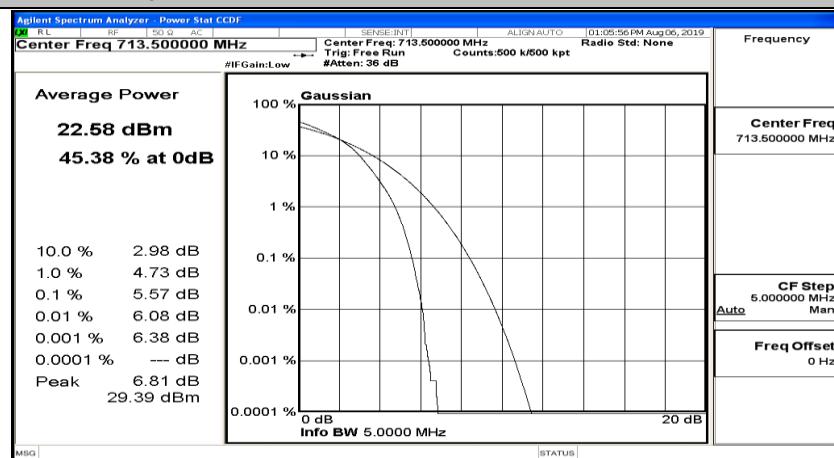
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



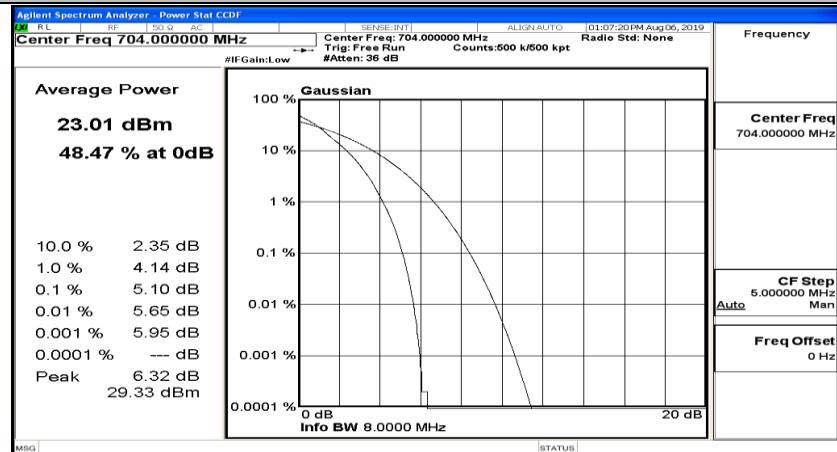
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



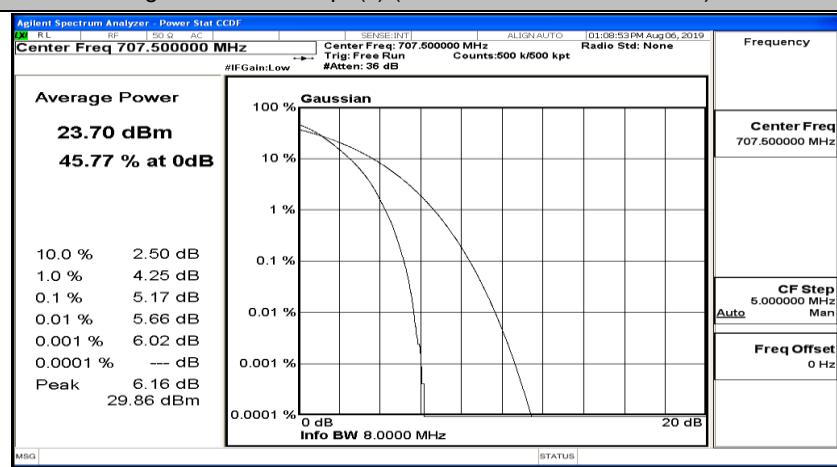
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



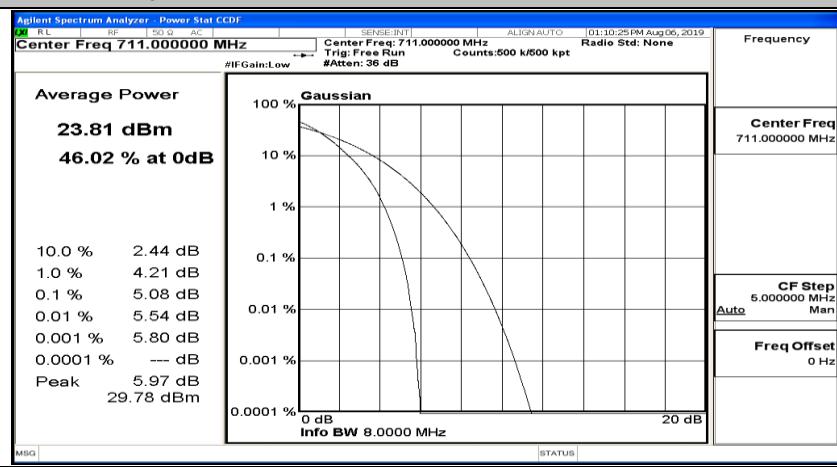
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



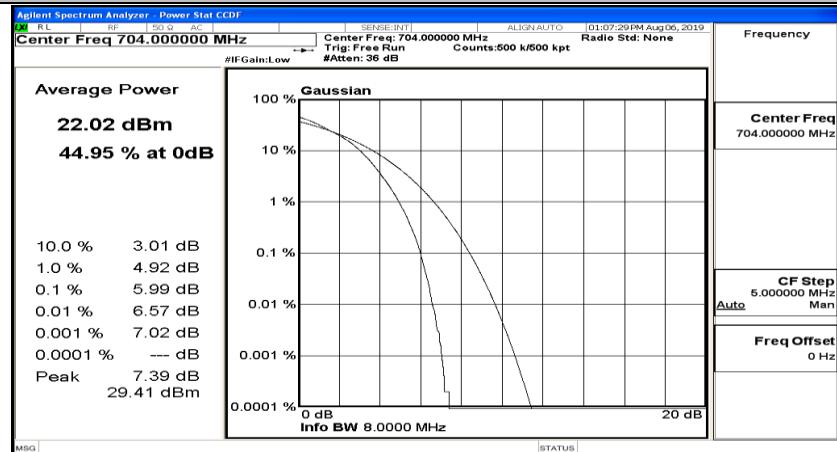
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



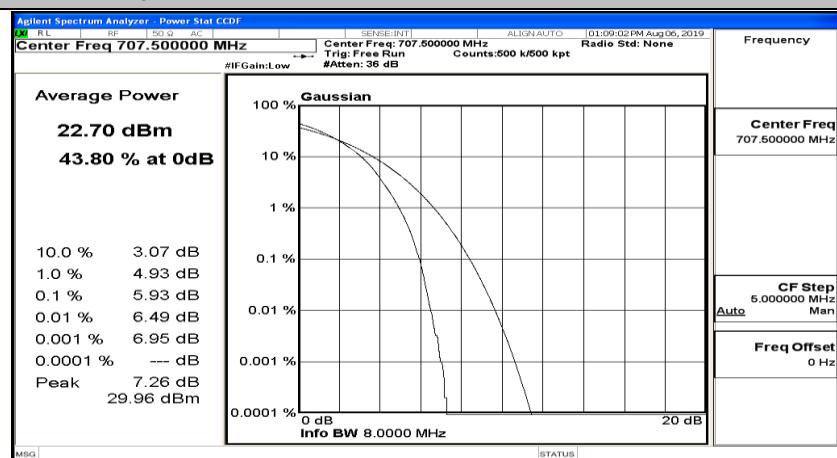
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



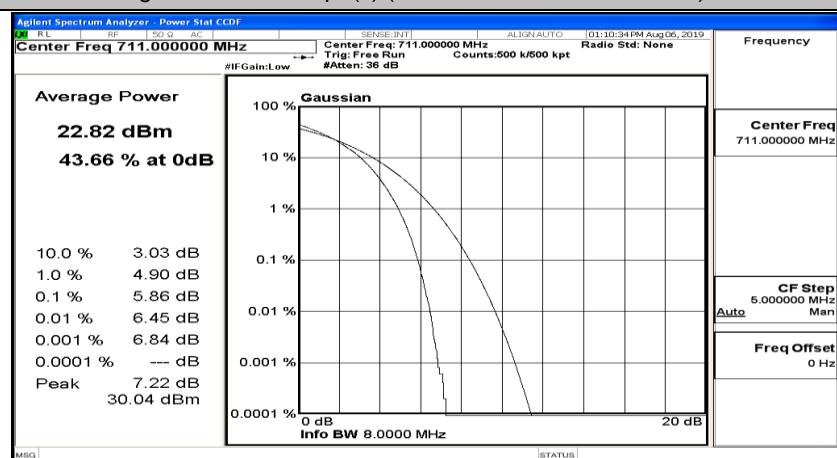
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



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



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



**G.3 26dB Bandwidth and Occupied Bandwidth**

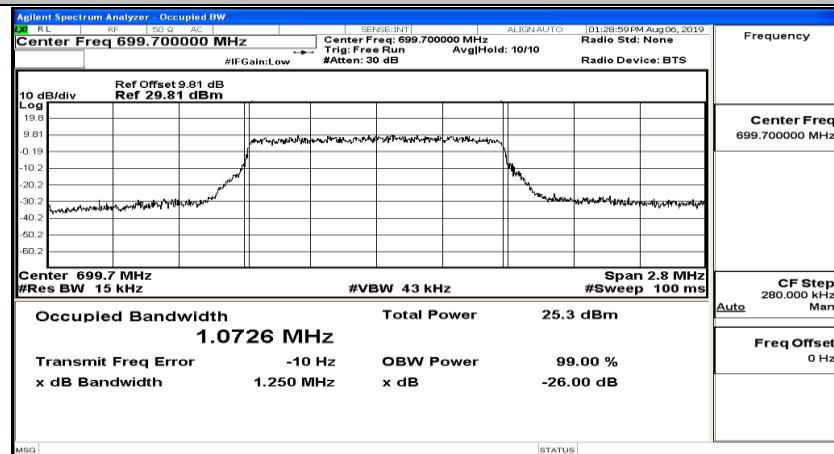
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0726	1.250	PASS
	MCH	1.0766	1.239	PASS
	HCH	1.0750	1.268	PASS
16QAM	LCH	1.0791	1.235	PASS
	MCH	1.0744	1.236	PASS
	HCH	1.0785	1.242	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6788	2.825	PASS
	MCH	2.6793	2.819	PASS
	HCH	2.6758	2.839	PASS
16QAM	LCH	2.6737	2.816	PASS
	MCH	2.6820	2.841	PASS
	HCH	2.6711	2.831	PASS

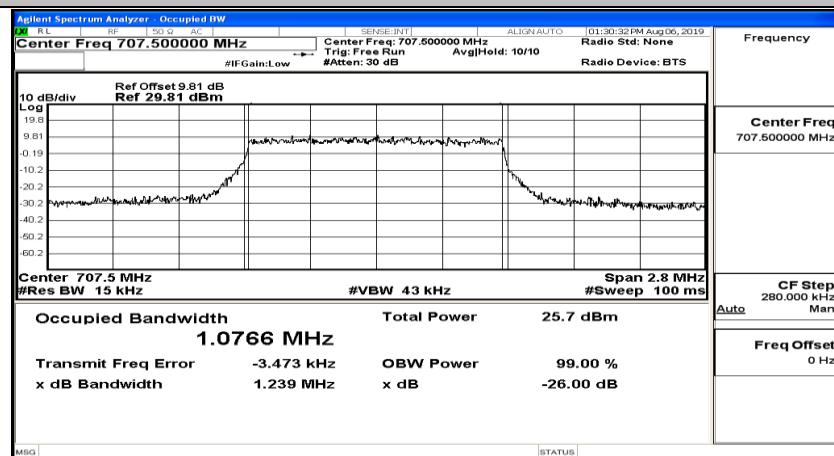
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4627	4.804	PASS
	MCH	4.4809	4.930	PASS
	HCH	4.4513	4.838	PASS
16QAM	LCH	4.4675	4.795	PASS
	MCH	4.4811	4.895	PASS
	HCH	4.4670	4.845	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.8775	9.321	PASS
	MCH	8.9787	9.530	PASS
	HCH	8.9468	9.528	PASS
16QAM	LCH	8.8769	9.339	PASS
	MCH	8.9606	9.508	PASS
	HCH	8.9494	9.556	PASS

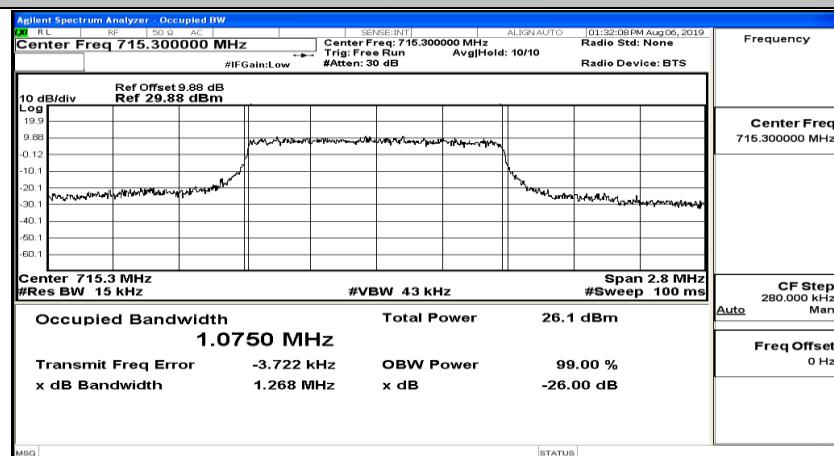
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



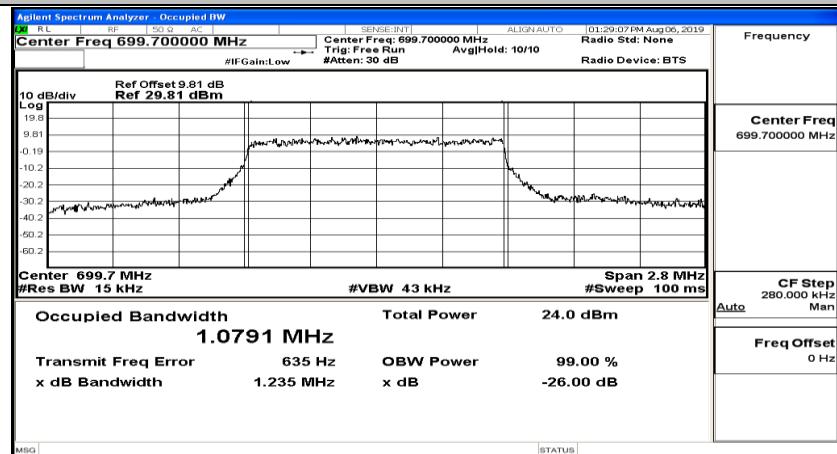
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



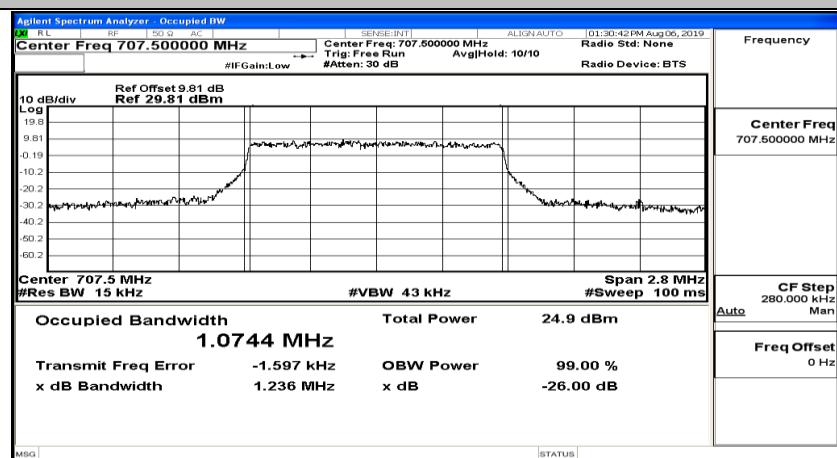
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



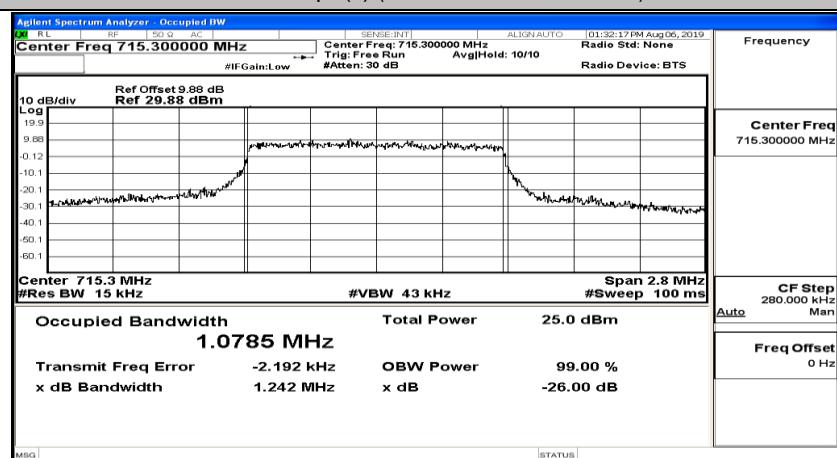
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



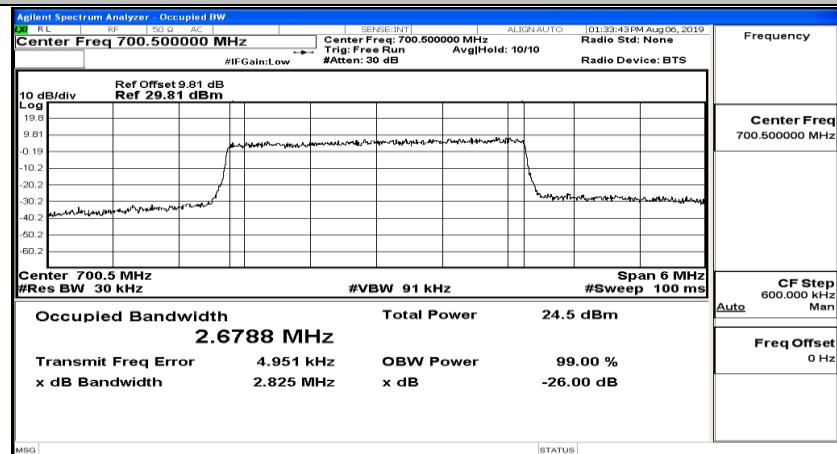
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



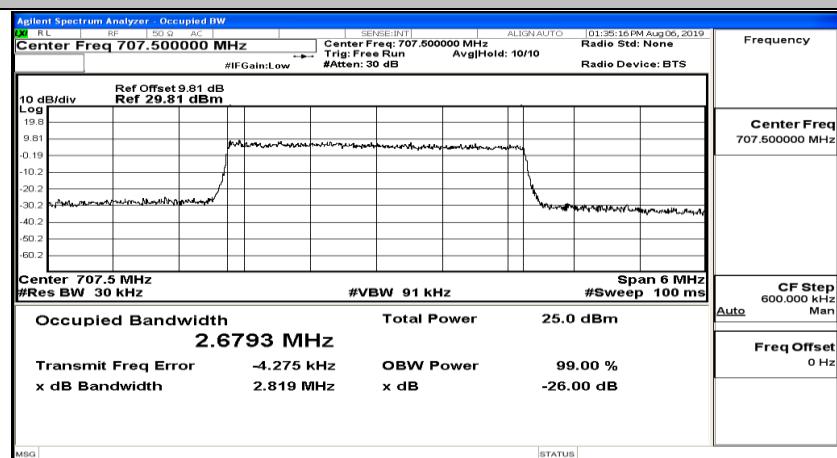
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



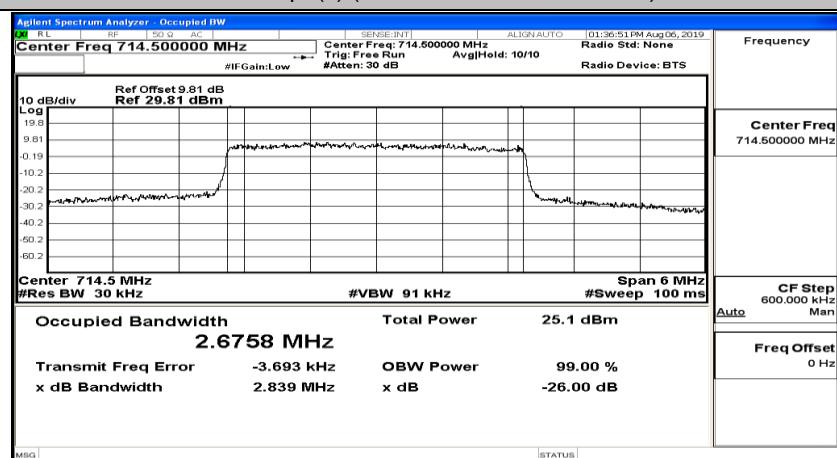
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



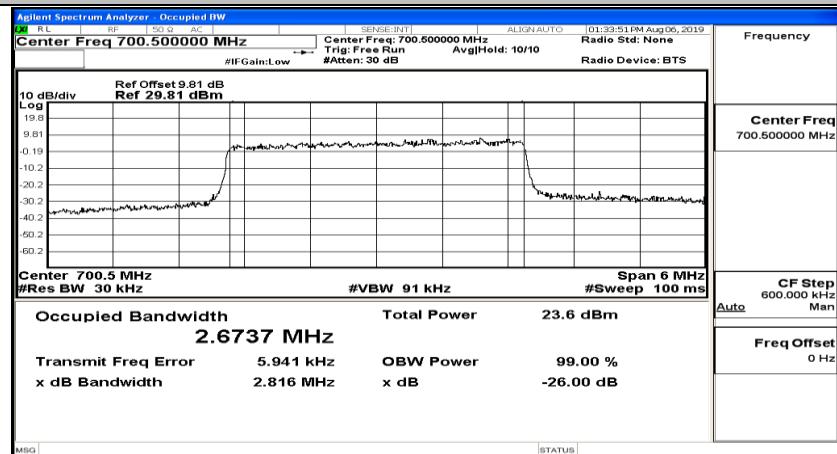
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



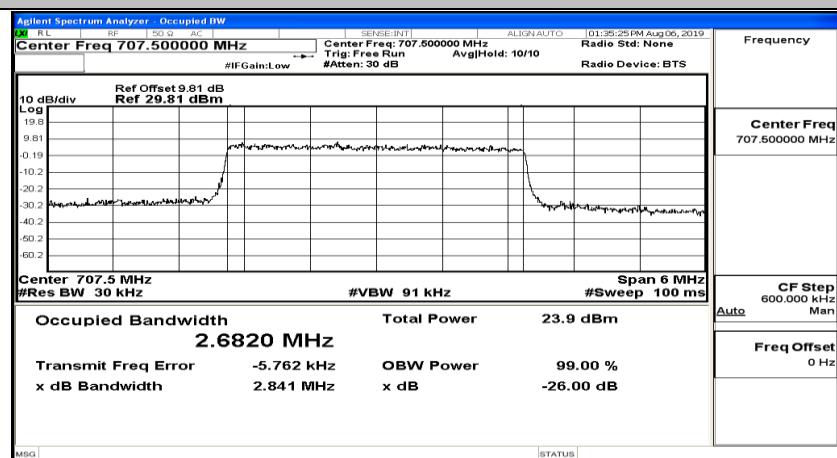
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



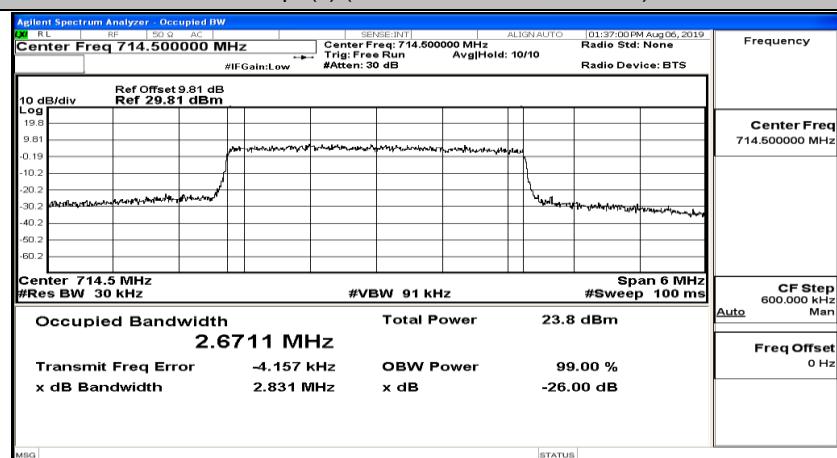
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



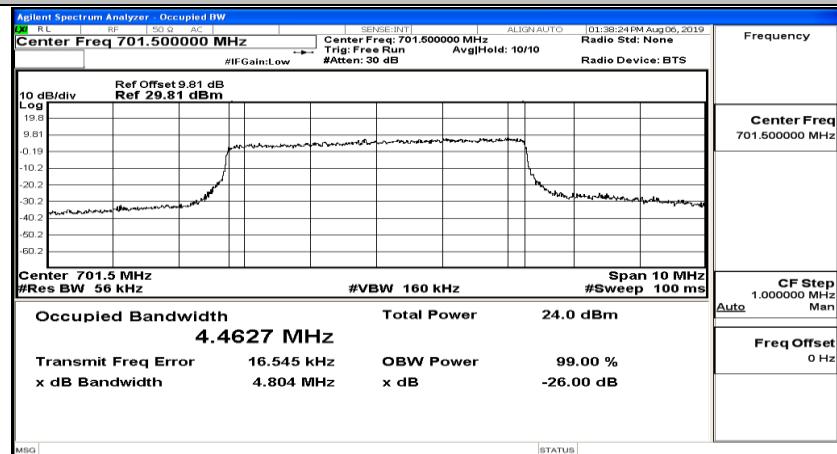
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



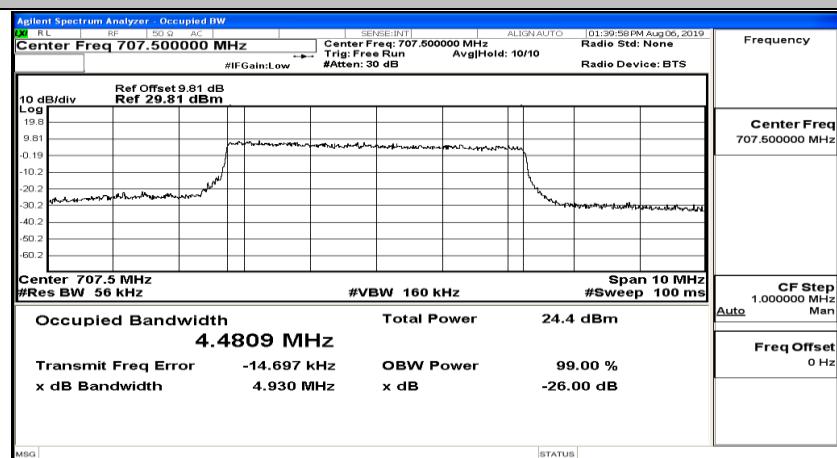
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



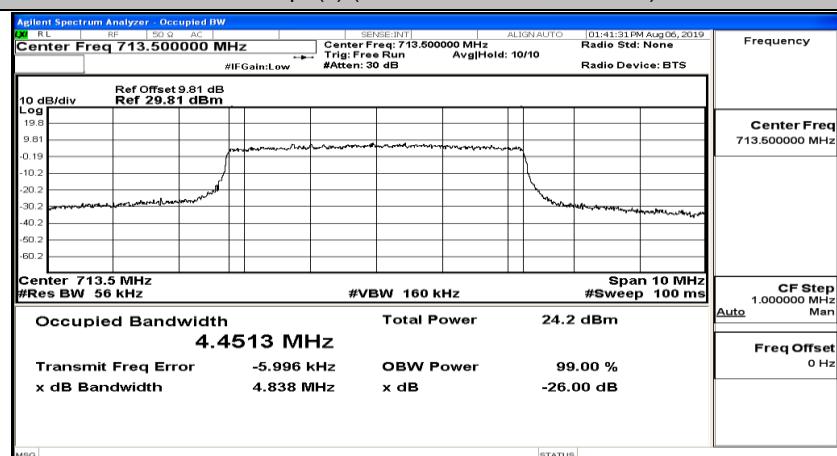
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



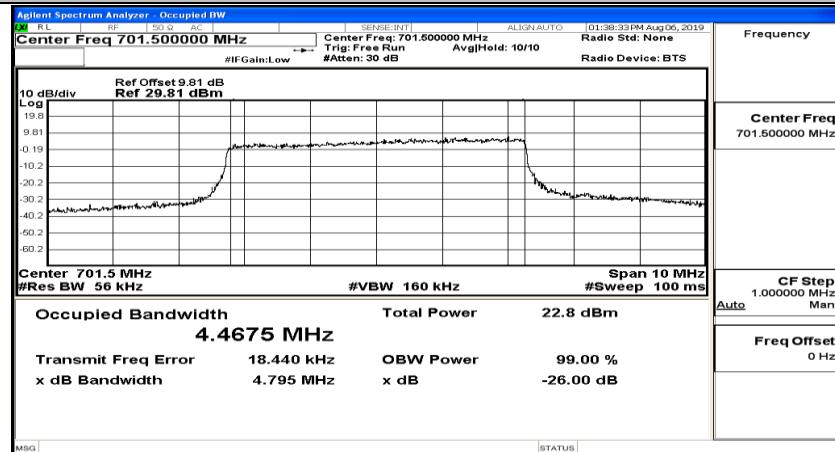
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



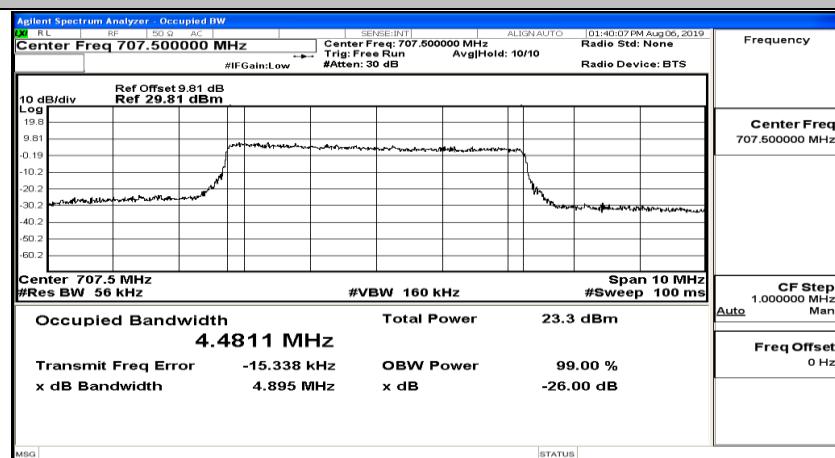
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



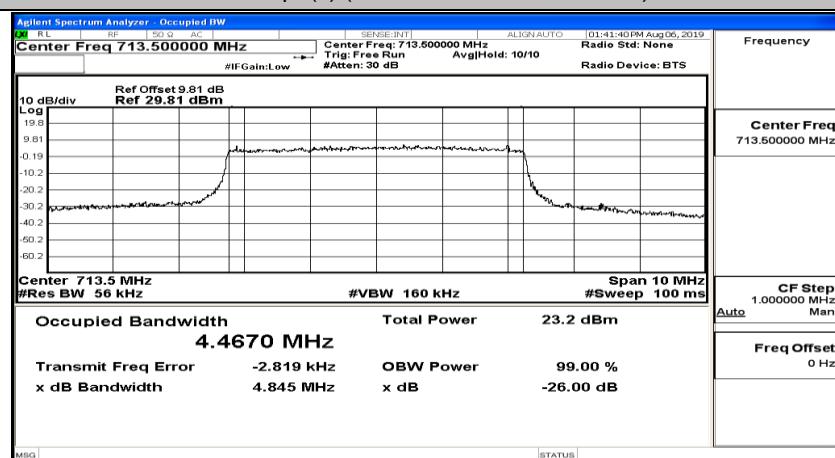
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



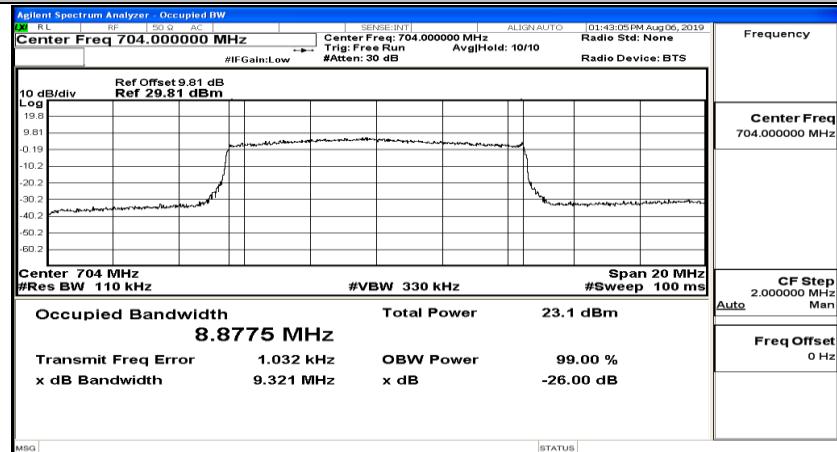
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



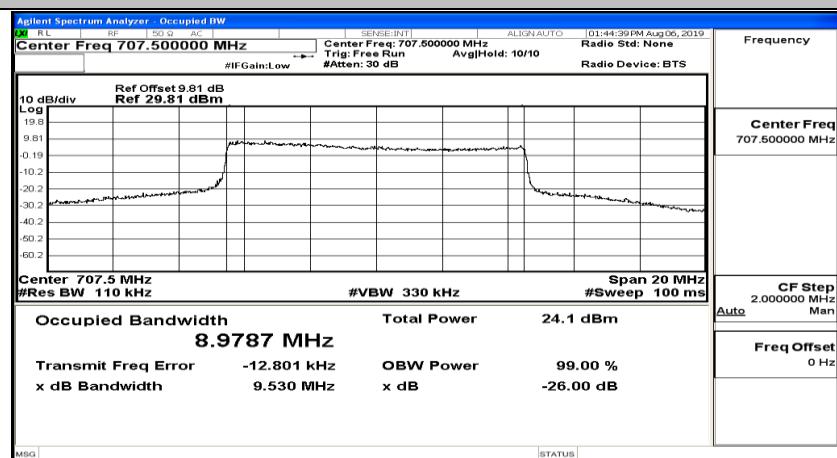
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



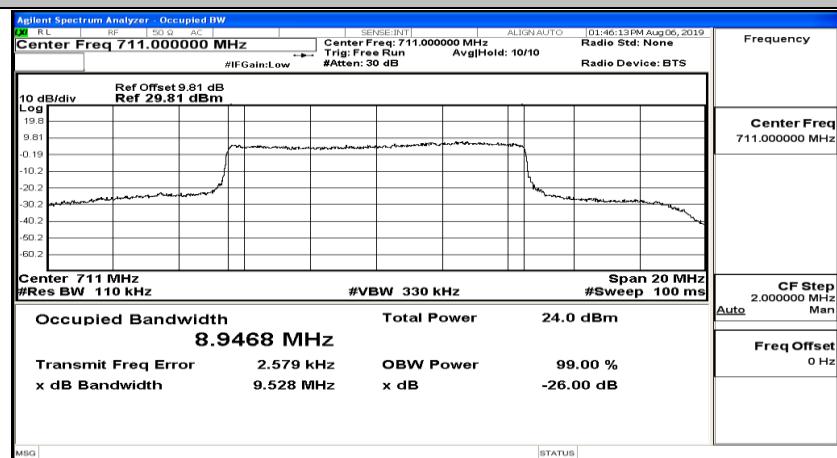
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



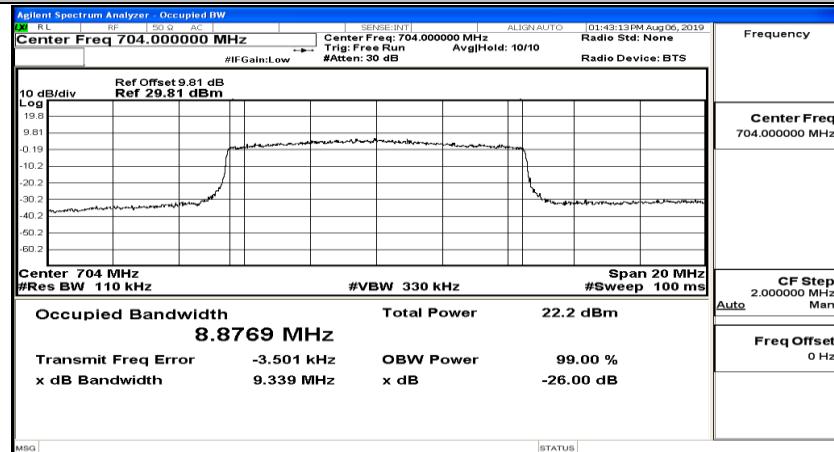
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



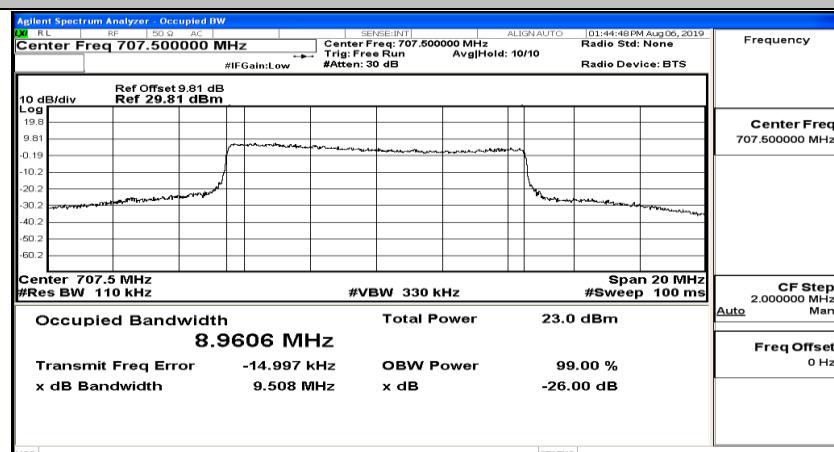
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



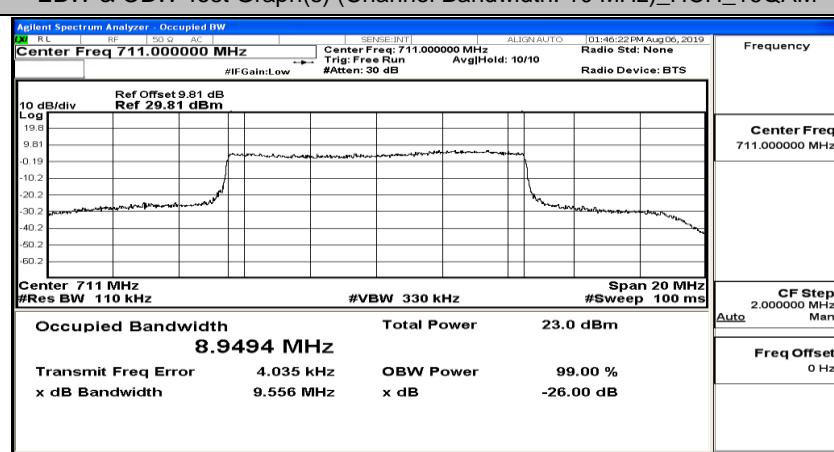
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM

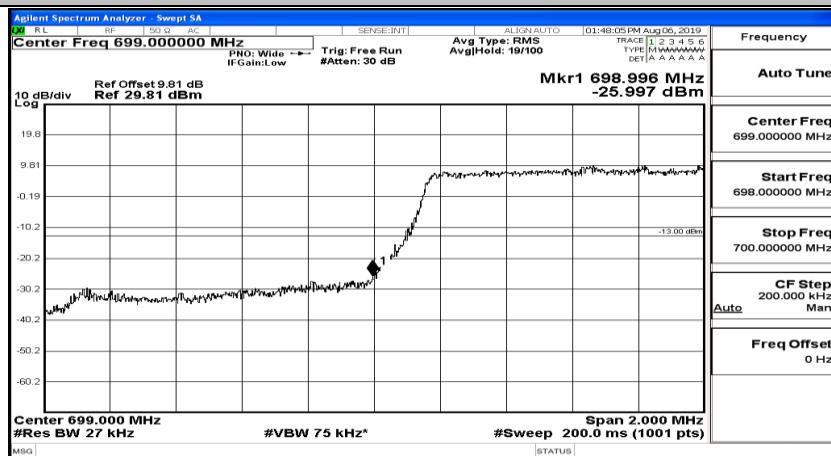
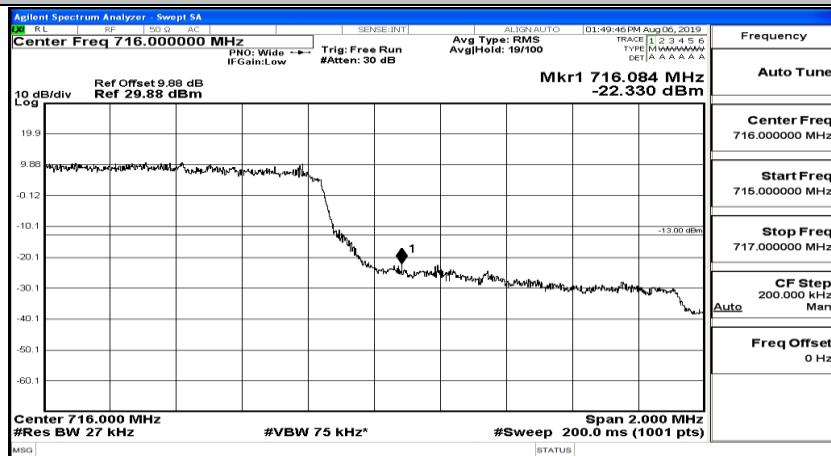
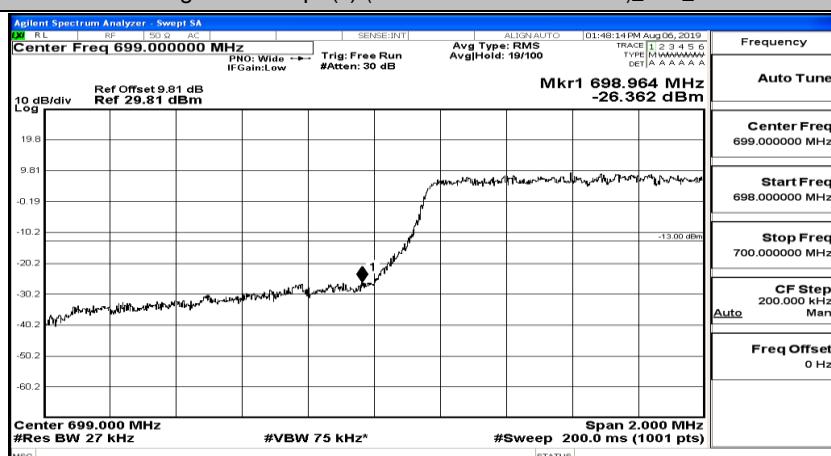


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM

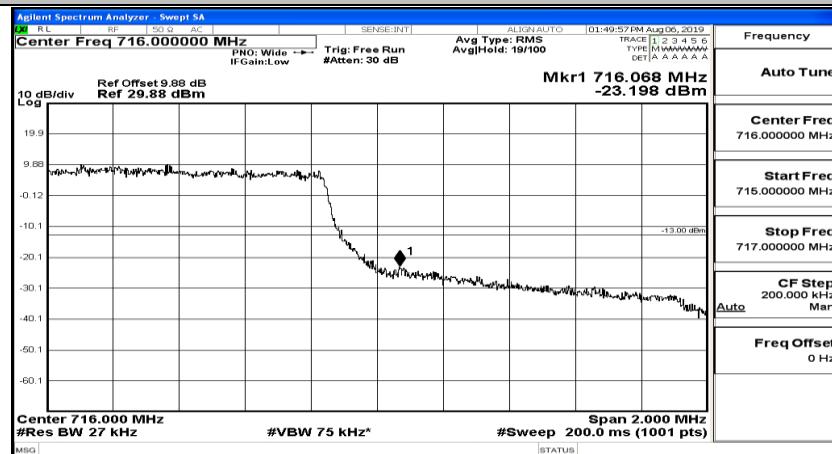


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

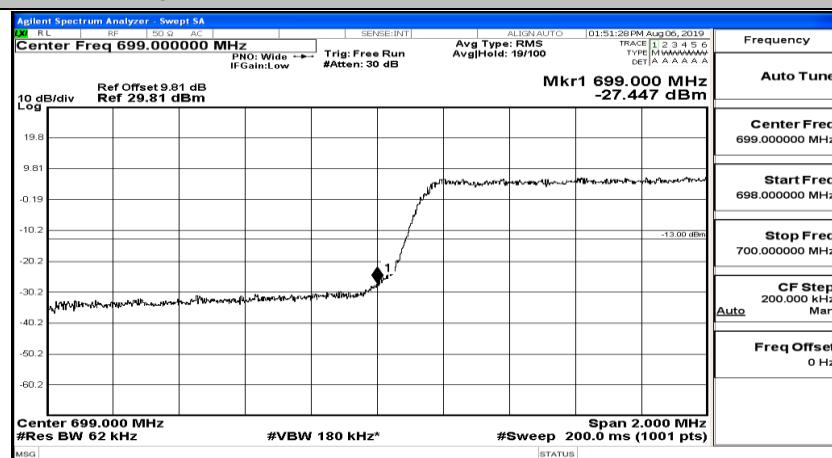


**G.4 Band Edge****Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK****Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK****Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM**

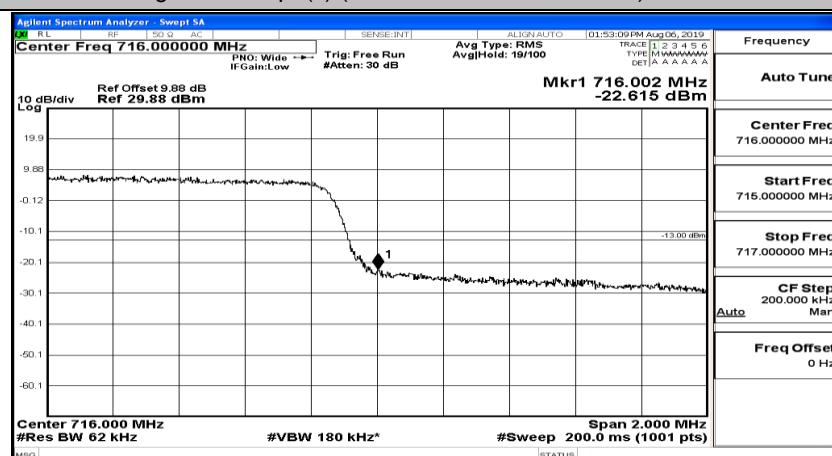
## Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



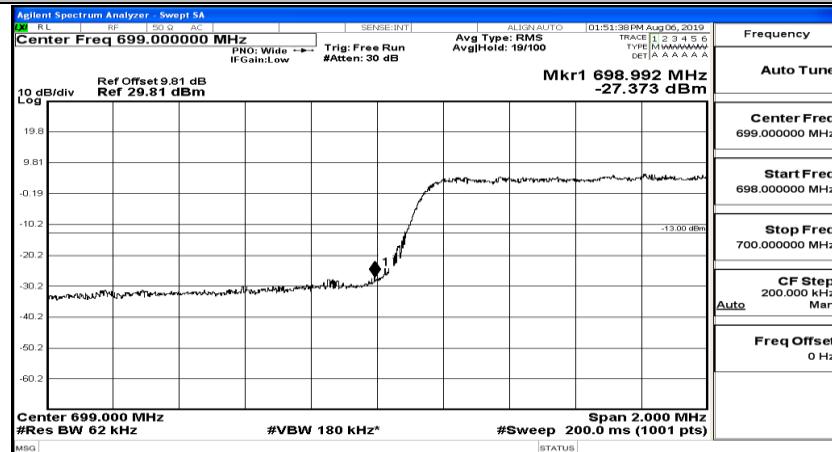
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



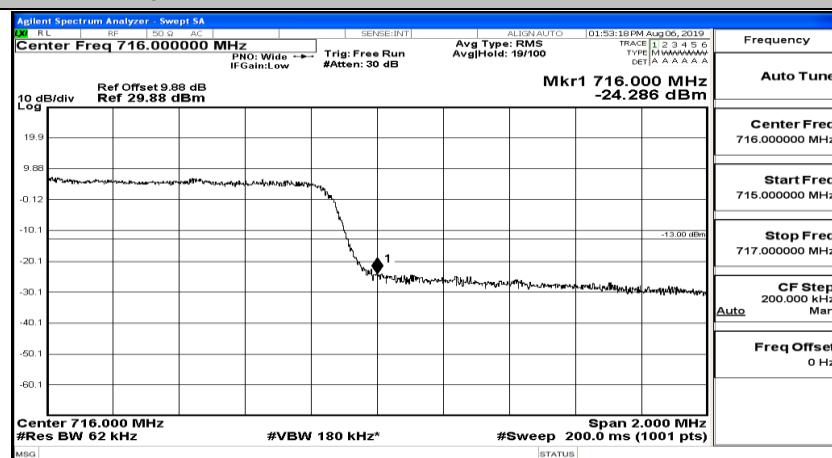
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



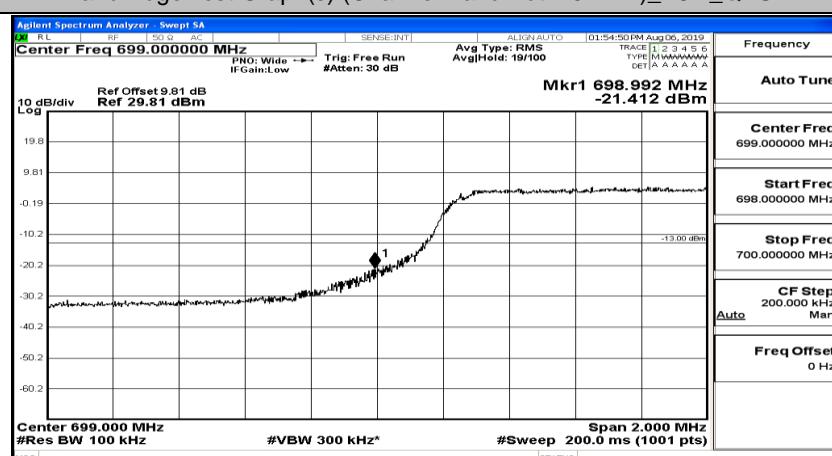
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



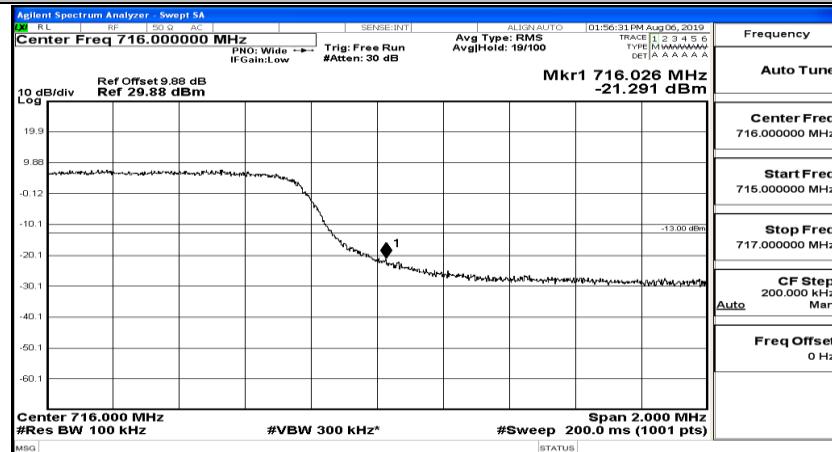
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



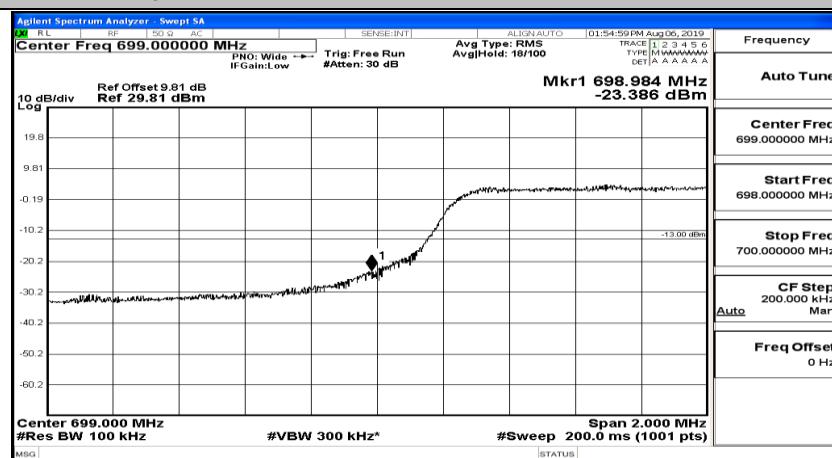
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



## 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

