

## Appendix E: Test Data for E-UTRA Band 4

**Product Name: Ruggedized In-vehicle Tablet**

**Test Model: APOLLO 10L**

### Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Aking Jin

### E.1 Conducted Output Power

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	23.08	22.35	PASS
		1	3	23.03	22.43	PASS
		1	5	22.98	22.37	PASS
		3	0	23.04	22.09	PASS
		3	2	23.02	22.21	PASS
		3	3	22.97	22.05	PASS
		6	0	22.17	21.31	PASS
	MCH	1	0	23.66	22.71	PASS
		1	3	23.75	22.80	PASS
		1	5	23.72	22.73	PASS
		3	0	23.68	22.74	PASS
		3	2	23.68	22.81	PASS
		3	3	23.63	22.88	PASS
		6	0	22.65	21.67	PASS
	HCH	1	0	22.95	22.29	PASS
		1	3	23.02	22.15	PASS
		1	5	22.95	22.28	PASS
		3	0	23.05	22.08	PASS
		3	2	23.08	22.37	PASS
		3	3	23.09	22.08	PASS
		6	0	22.07	21.21	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	23.11	22.55	PASS
		1	7	23.32	22.37	PASS
		1	14	22.93	22.45	PASS
		8	0	22.14	21.19	PASS
		8	4	22.08	21.16	PASS
		8	7	22.10	21.17	PASS
		15	0	22.15	21.11	PASS
	MCH	1	0	23.73	22.74	PASS
		1	7	23.72	22.79	PASS
		1	14	23.63	22.86	PASS
		8	0	22.85	21.85	PASS
		8	4	22.79	21.79	PASS
		8	7	22.71	21.85	PASS
		15	0	22.67	21.66	PASS
	HCH	1	0	22.94	22.52	PASS
		1	7	22.97	22.36	PASS
		1	14	22.97	22.49	PASS
		8	0	22.05	21.03	PASS
		8	4	22.10	21.15	PASS
		8	7	22.07	21.16	PASS
		15	0	22.06	21.15	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	23.26	22.64	PASS
		1	12	22.81	22.57	PASS
		1	24	22.88	22.38	PASS
		12	0	22.20	21.27	PASS
		12	6	22.15	21.21	PASS
		12	13	22.06	21.18	PASS
		25	0	22.05	21.11	PASS
	MCH	1	0	22.88	22.22	PASS
		1	12	22.90	22.11	PASS
		1	24	22.64	22.26	PASS
		12	0	22.89	21.95	PASS
		12	6	22.78	22.01	PASS
		12	13	22.73	21.88	PASS
		25	0	22.73	21.75	PASS
	HCH	1	0	22.90	22.25	PASS
		1	12	23.12	21.91	PASS
		1	24	23.01	21.89	PASS
		12	0	22.09	21.19	PASS
		12	6	22.03	21.07	PASS
		12	13	22.13	21.14	PASS
		25	0	22.14	21.13	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	23.32	22.32	PASS
		1	24	23.03	22.20	PASS
		1	49	22.32	21.68	PASS
		25	0	22.12	21.13	PASS
		25	12	22.07	21.09	PASS
		25	25	22.22	21.31	PASS
		50	0	22.16	21.07	PASS
	MCH	1	0	23.84	22.28	PASS
		1	24	23.85	22.41	PASS
		1	49	23.71	22.16	PASS
		25	0	22.78	21.79	PASS
		25	12	22.72	21.75	PASS
		25	25	22.71	21.75	PASS
		50	0	22.76	21.69	PASS
	HCH	1	0	23.33	22.69	PASS
		1	24	22.86	22.25	PASS
		1	49	22.28	21.71	PASS
		25	0	22.12	21.17	PASS
		25	12	22.09	21.11	PASS
		25	25	22.06	21.19	PASS
		50	0	22.13	21.14	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	22.90	22.23	PASS
		1	37	22.83	22.67	PASS
		1	74	22.57	22.53	PASS
		37	0	22.87	21.95	PASS
		37	18	22.97	21.98	PASS
		37	38	22.91	21.91	PASS
		75	0	22.95	21.99	PASS
	MCH	1	0	23.29	22.78	PASS
		1	37	23.21	22.41	PASS
		1	74	23.19	22.55	PASS
		37	0	22.52	21.51	PASS
		37	18	22.56	21.51	PASS
		37	38	22.38	21.38	PASS
		75	0	22.43	21.42	PASS
	HCH	1	0	23.04	22.39	PASS
		1	37	22.55	22.03	PASS
		1	74	22.33	21.73	PASS
		37	0	22.82	21.82	PASS
		37	18	22.76	21.79	PASS
		37	38	22.73	21.76	PASS
		75	0	22.79	21.87	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	22.75	21.99	PASS
		1	49	22.95	22.48	PASS
		1	99	23.40	22.53	PASS
		50	0	22.11	21.06	PASS
		50	25	22.08	21.05	PASS
		50	50	22.19	21.19	PASS
		100	0	22.06	21.10	PASS
	MCH	1	0	22.98	22.32	PASS
		1	49	23.76	22.69	PASS
		1	99	22.88	22.44	PASS
		50	0	22.36	21.40	PASS
		50	25	22.50	21.57	PASS
		50	50	22.34	21.32	PASS
		100	0	22.30	21.30	PASS
	HCH	1	0	23.00	22.65	PASS
		1	49	22.76	22.02	PASS
		1	99	22.38	21.64	PASS
		50	0	22.20	21.23	PASS
		50	25	22.88	21.89	PASS
		50	50	22.66	21.77	PASS
		100	0	22.78	21.80	PASS

**E.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	5.42	<13	PASS
	MCH	5.41	<13	PASS
	HCH	4.5	<13	PASS
16QAM	LCH	6.34	<13	PASS
	MCH	6.39	<13	PASS
	HCH	5.32	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.38	<13	PASS
	MCH	5.46	<13	PASS
	HCH	4.61	<13	PASS
16QAM	LCH	6.33	<13	PASS
	MCH	6.39	<13	PASS
	HCH	5.38	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.25	<13	PASS
	MCH	5.32	<13	PASS
	HCH	4.5	<13	PASS
16QAM	LCH	6.15	<13	PASS
	MCH	6.24	<13	PASS
	HCH	5.37	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.01	<13	PASS
	MCH	5.23	<13	PASS
	HCH	4.72	<13	PASS
16QAM	LCH	5.9	<13	PASS
	MCH	6.14	<13	PASS
	HCH	5.58	<13	PASS

**Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)**

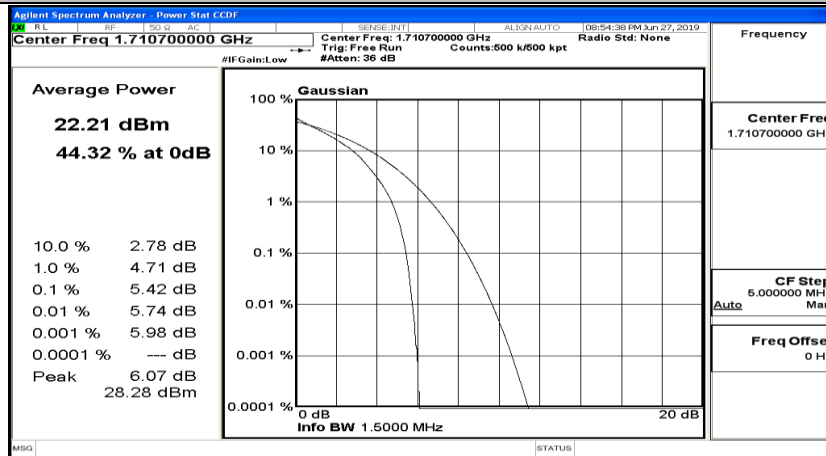
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.81	<13	PASS
	MCH	4.99	<13	PASS
	HCH	4.92	<13	PASS
16QAM	LCH	6.2	<13	PASS
	MCH	6.33	<13	PASS
	HCH	6.2	<13	PASS

**Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)**

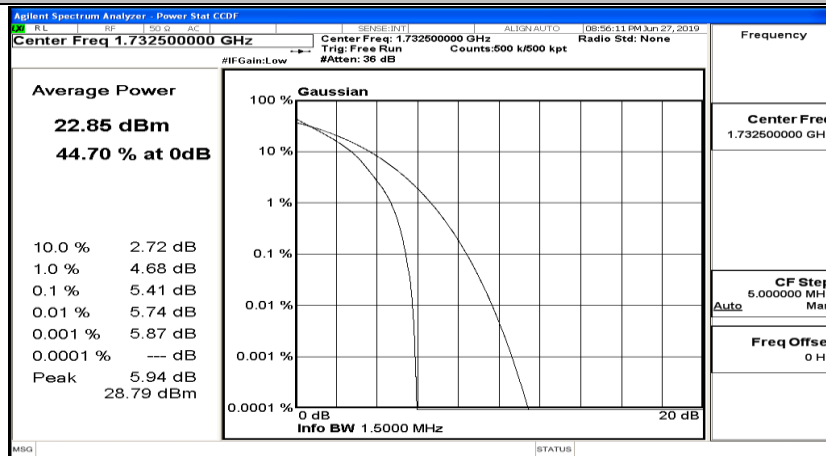
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.69	<13	PASS
	MCH	5.69	<13	PASS
	HCH	5.77	<13	PASS
16QAM	LCH	6.7	<13	PASS
	MCH	6.89	<13	PASS
	HCH	6.78	<13	PASS



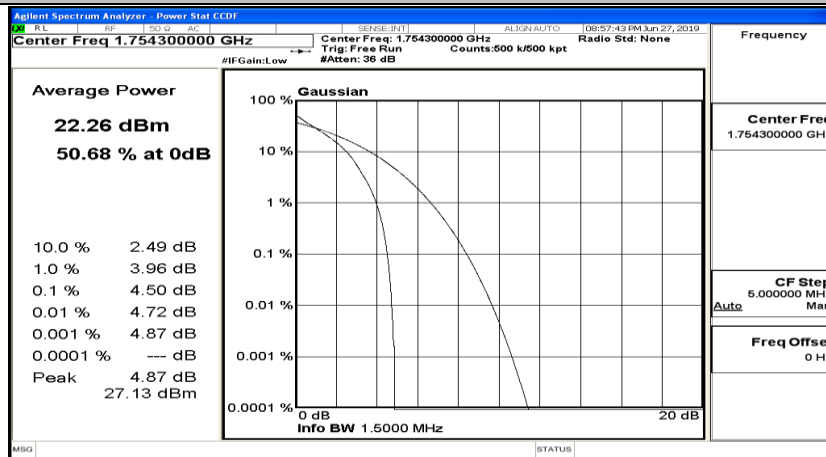
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



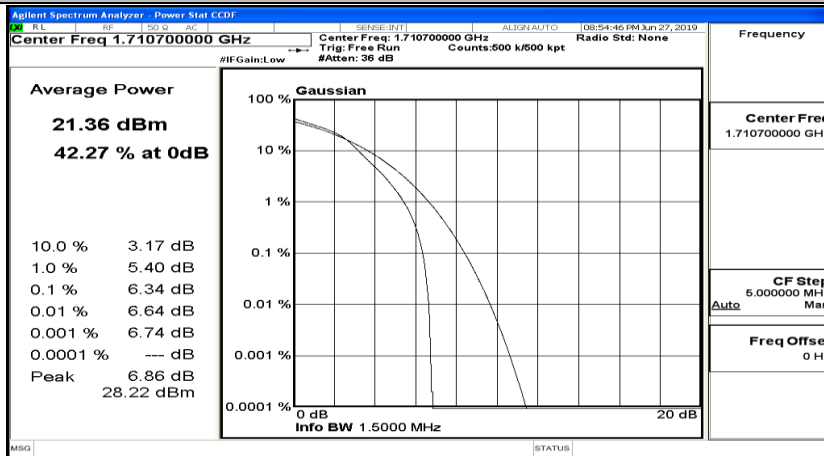
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



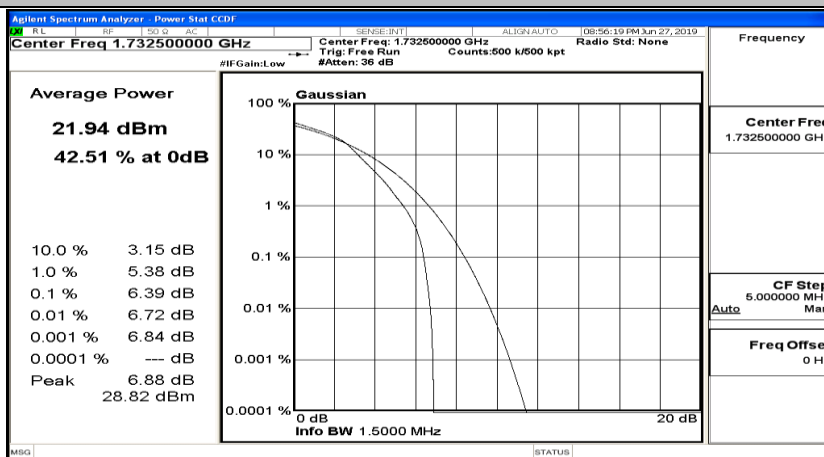
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



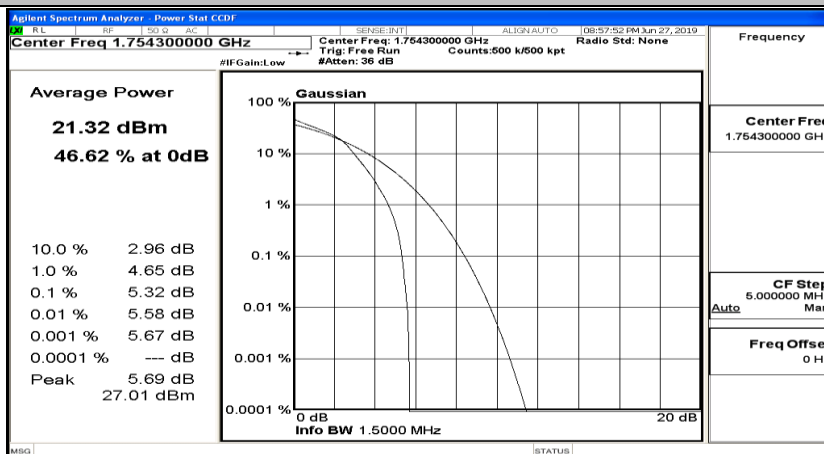
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



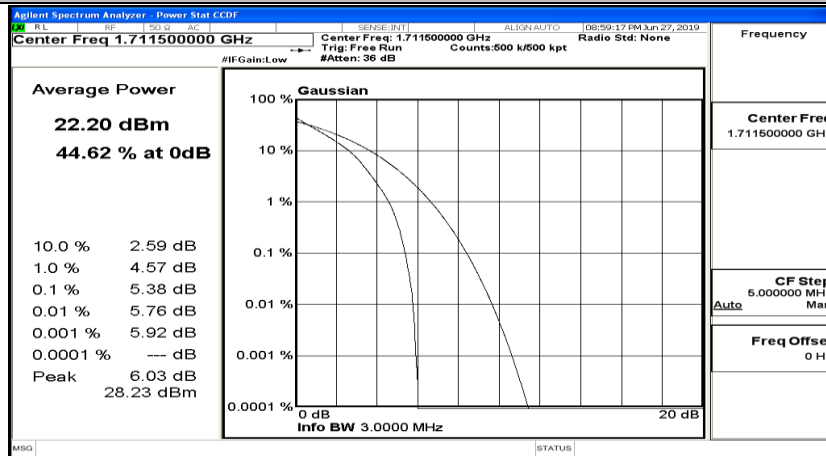
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



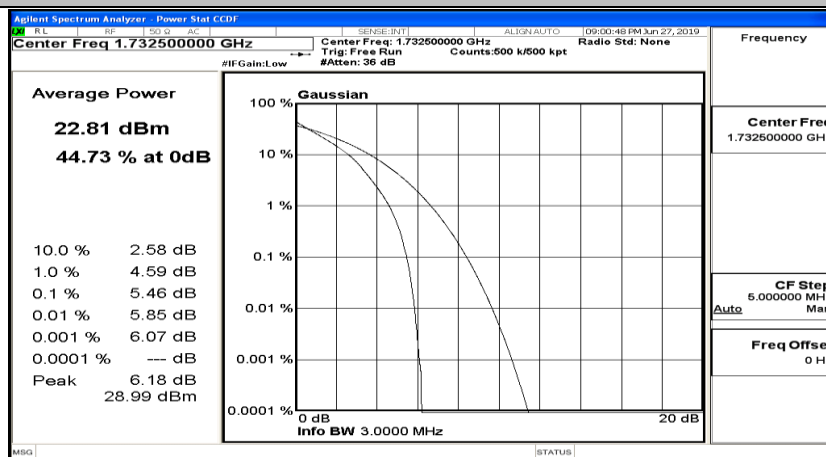
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



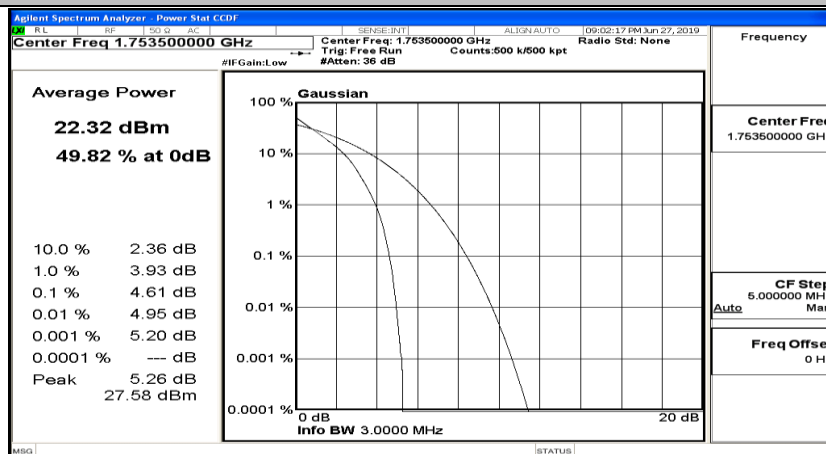
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



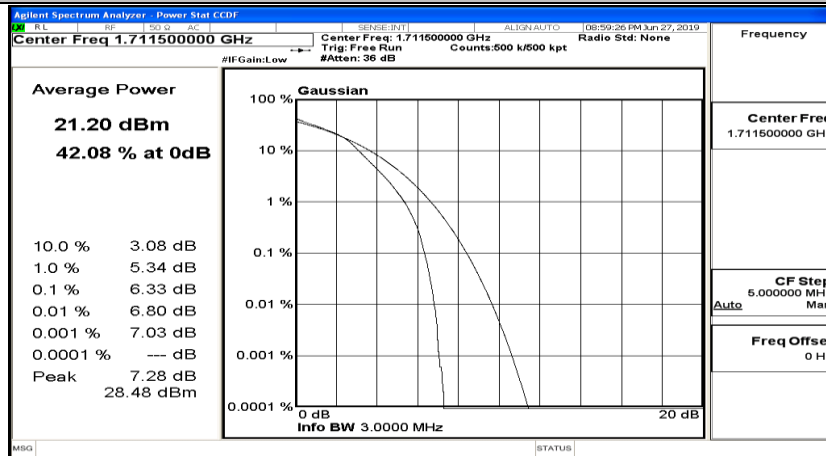
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



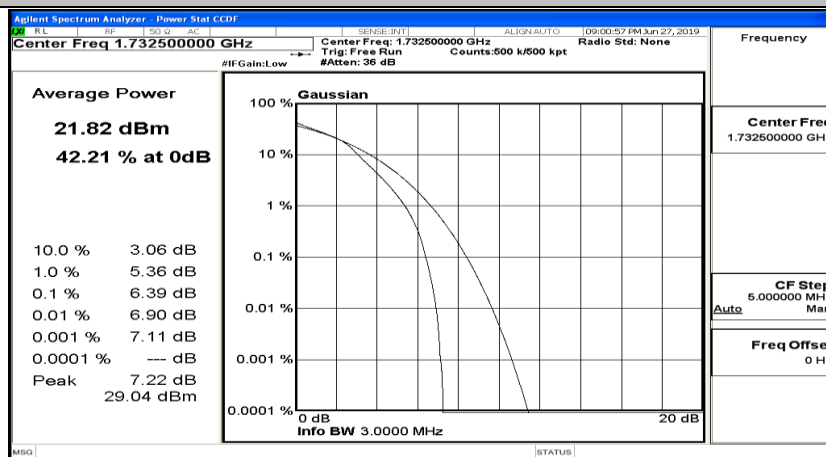
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



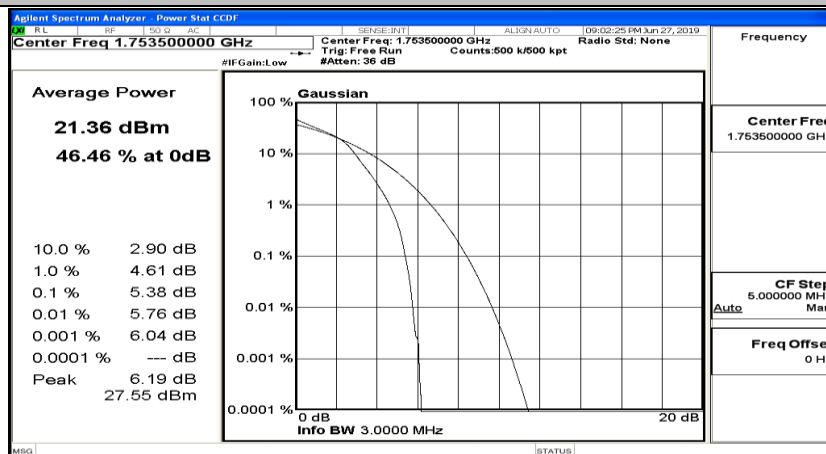
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



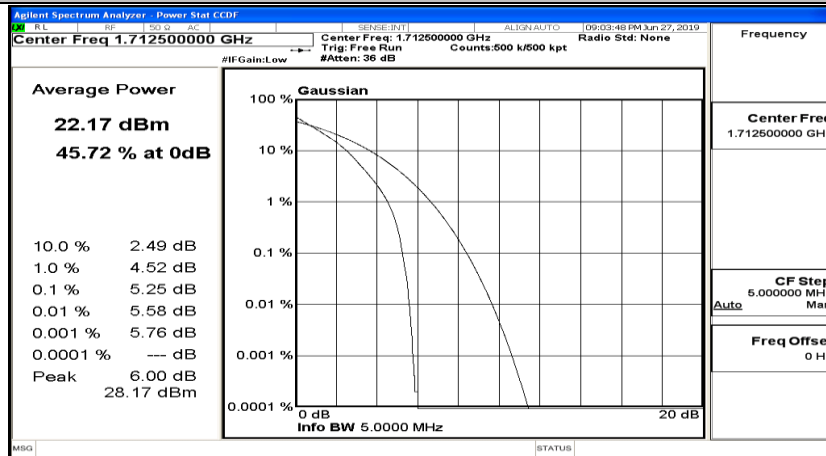
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



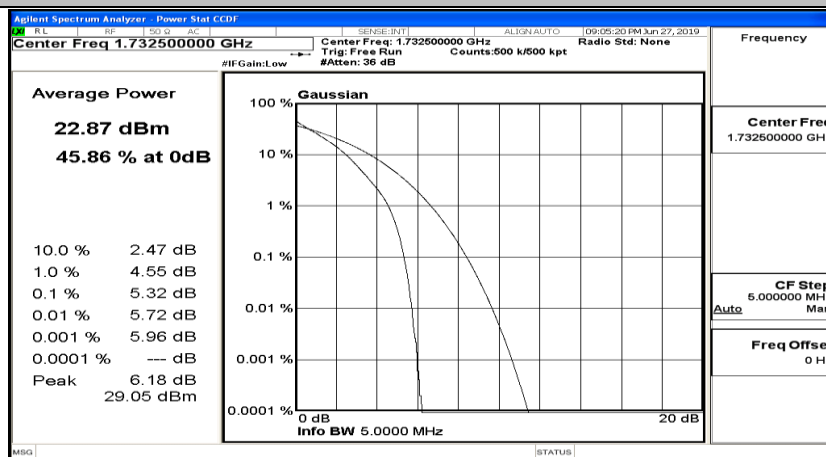
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



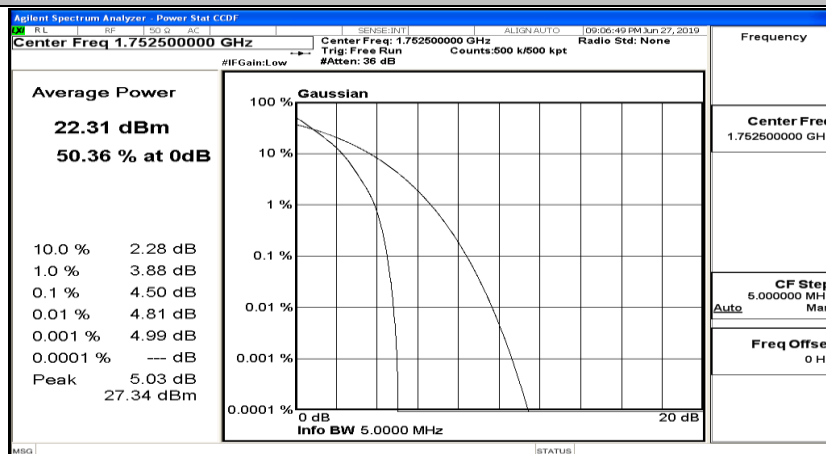
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



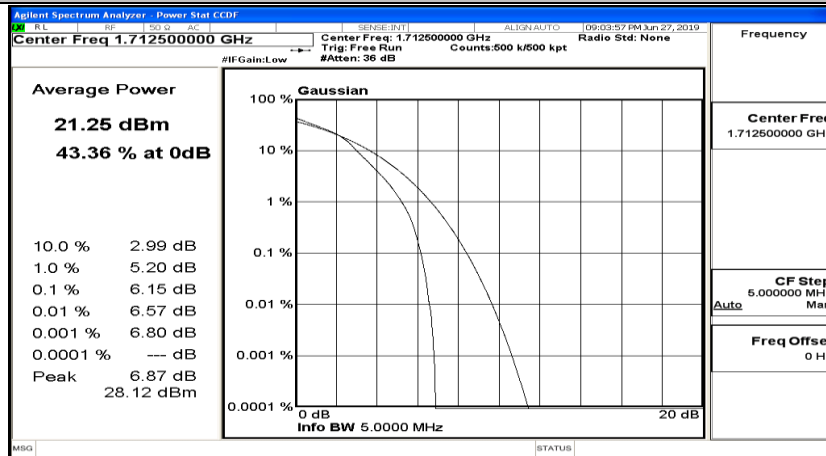
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



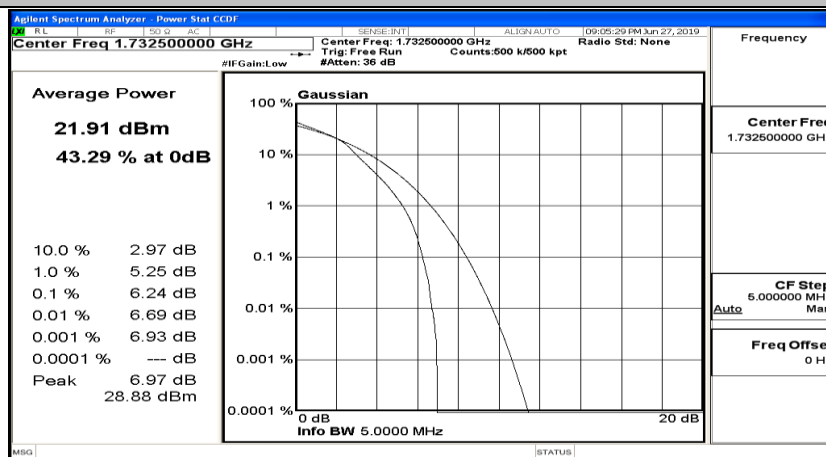
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



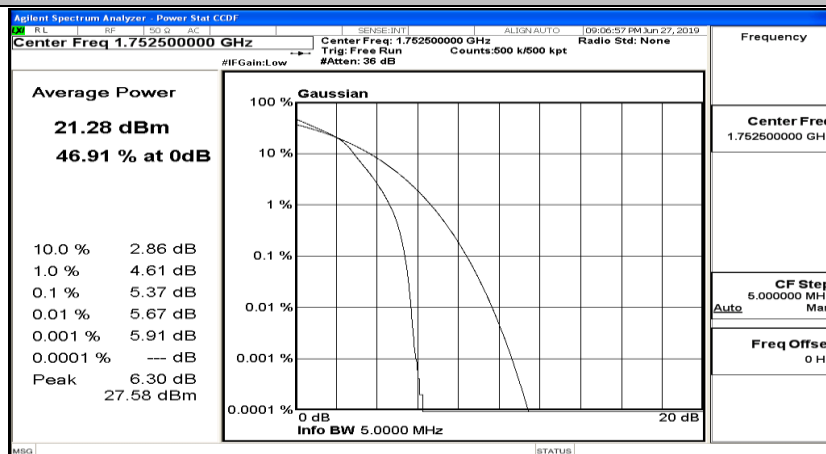
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



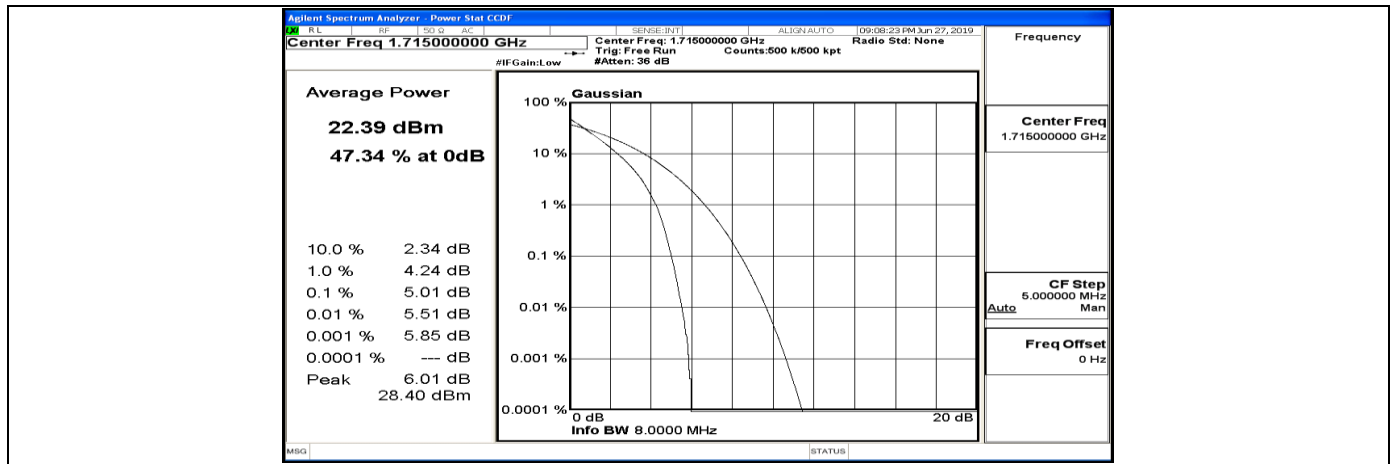
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



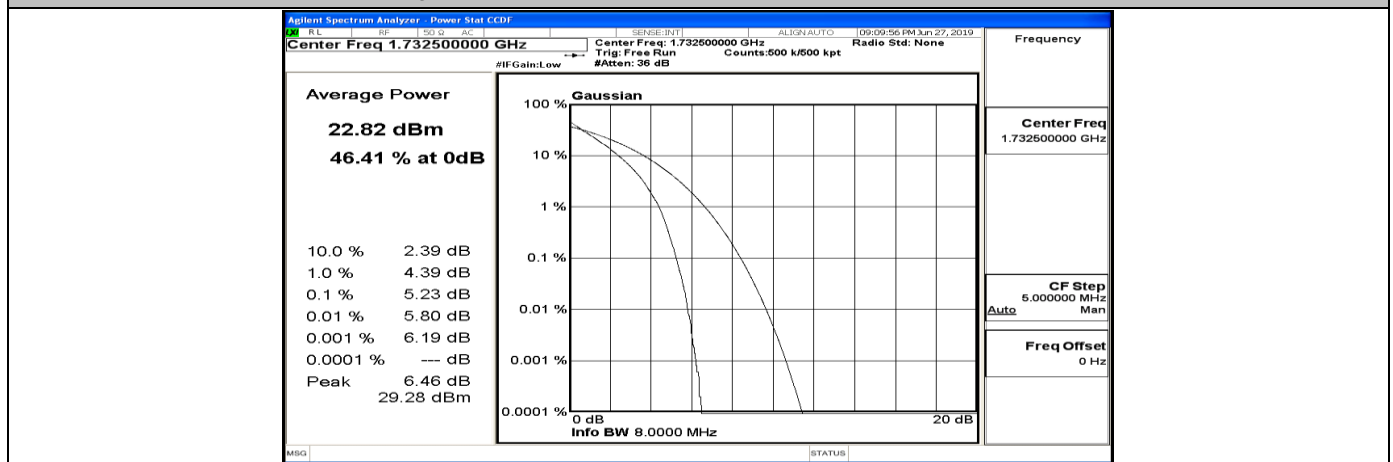
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



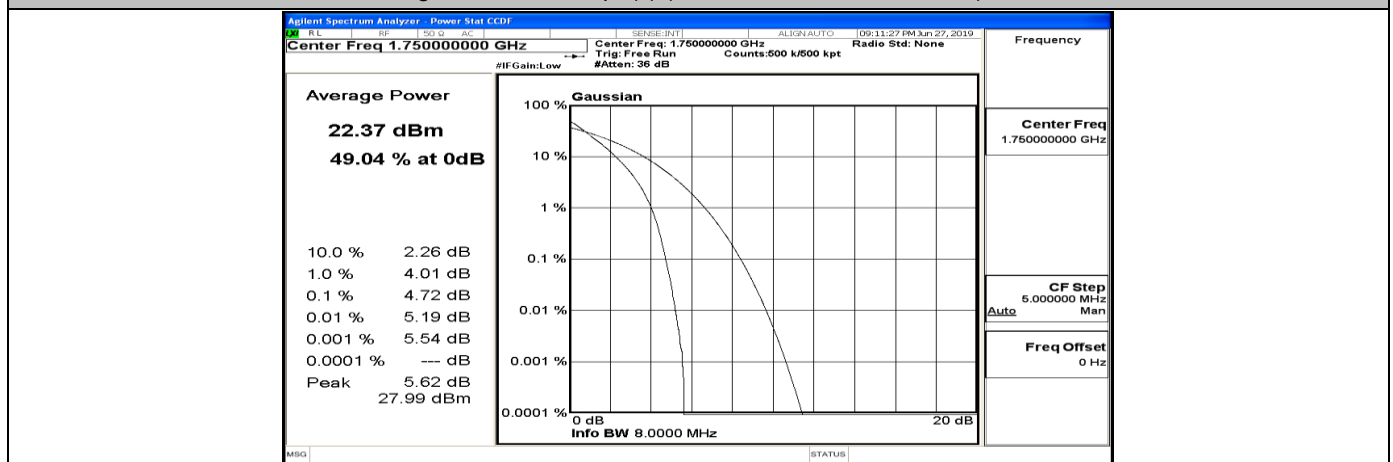
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



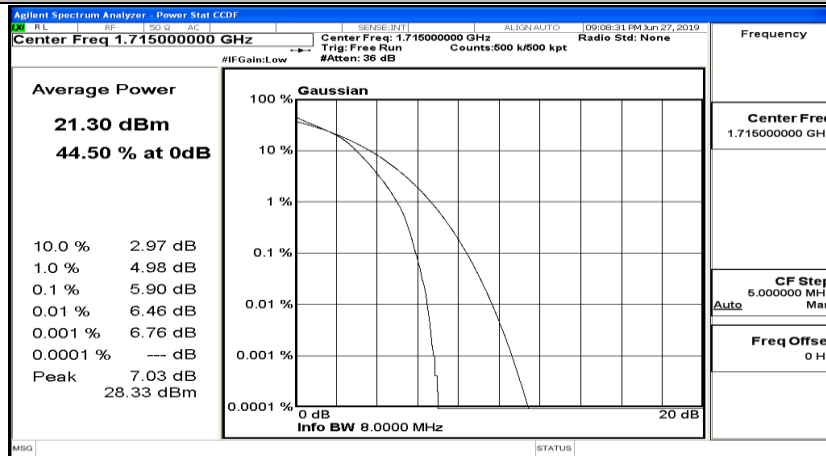
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



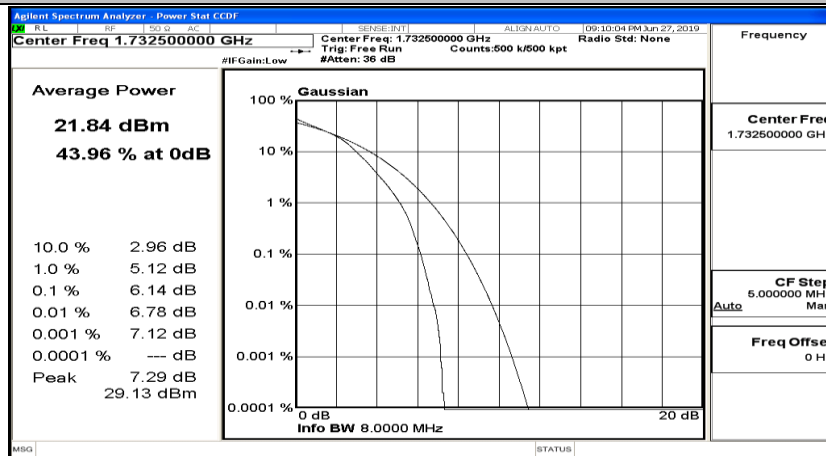
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



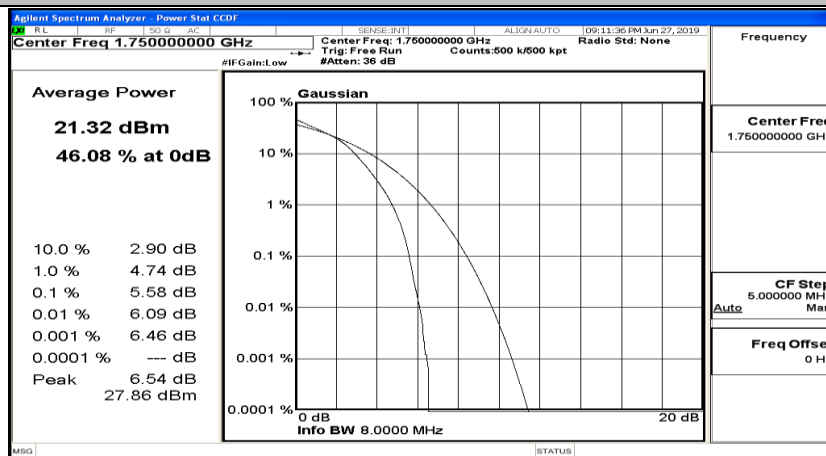
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



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

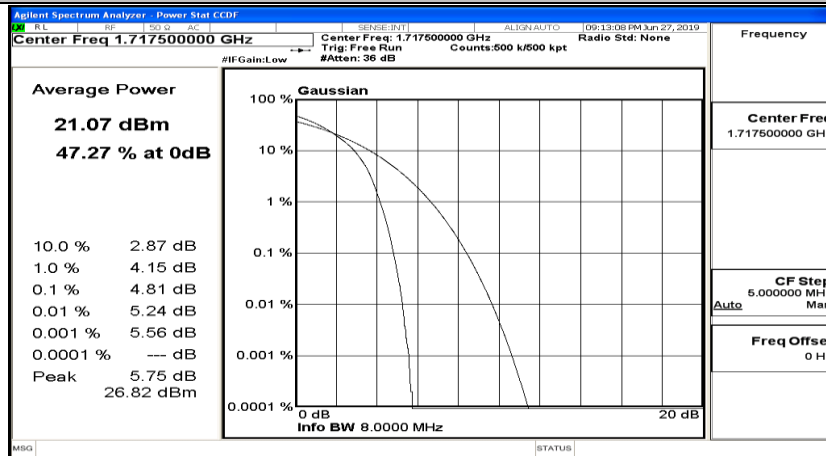


## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM

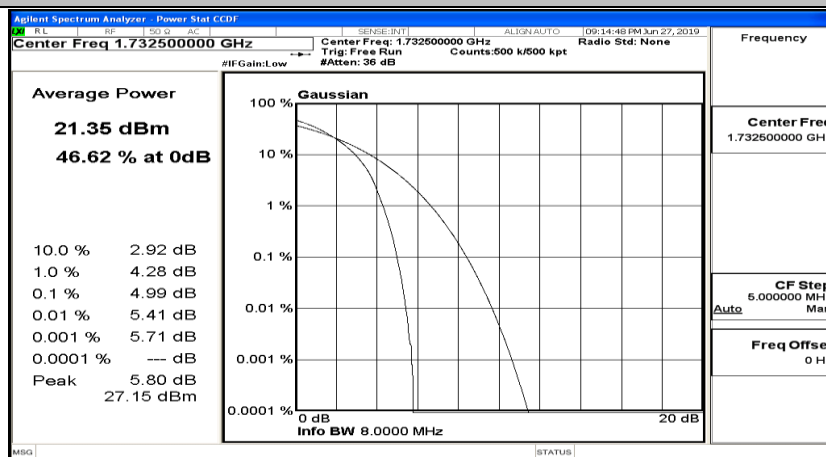




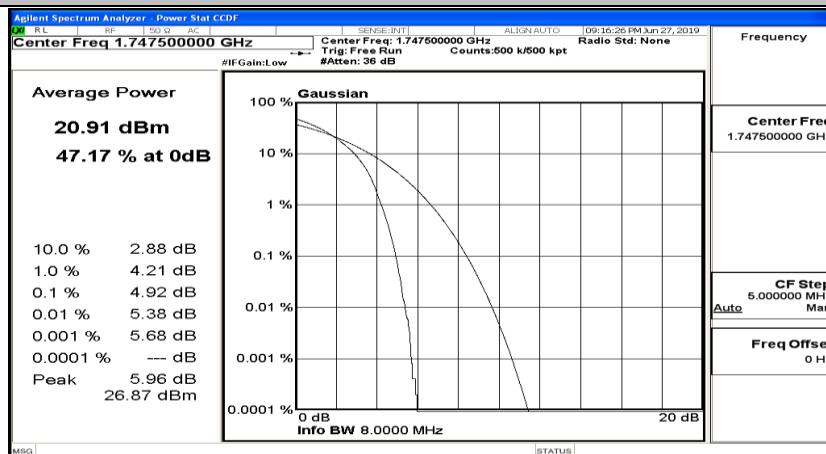
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



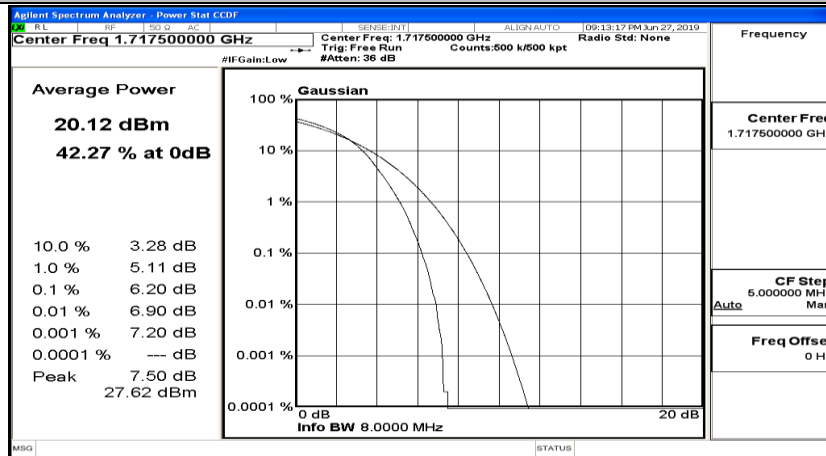
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_QPSK



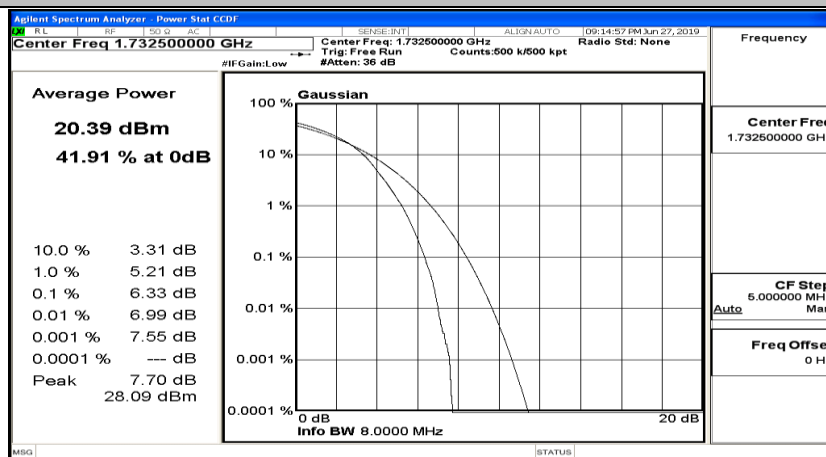
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK



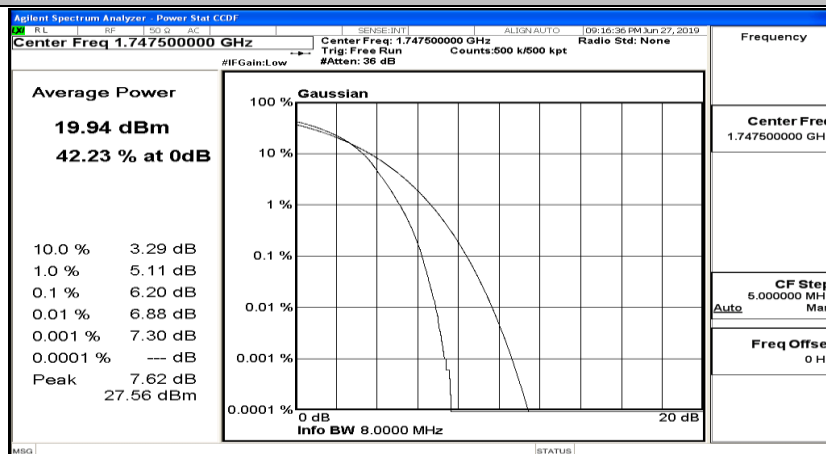
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



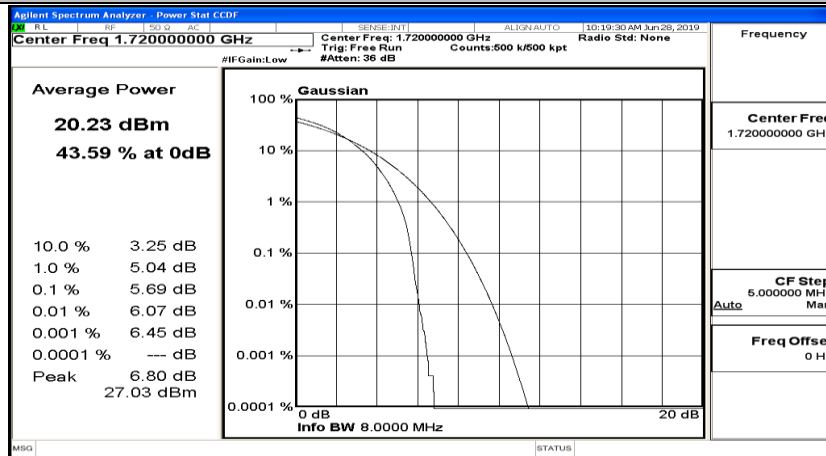
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_16QAM



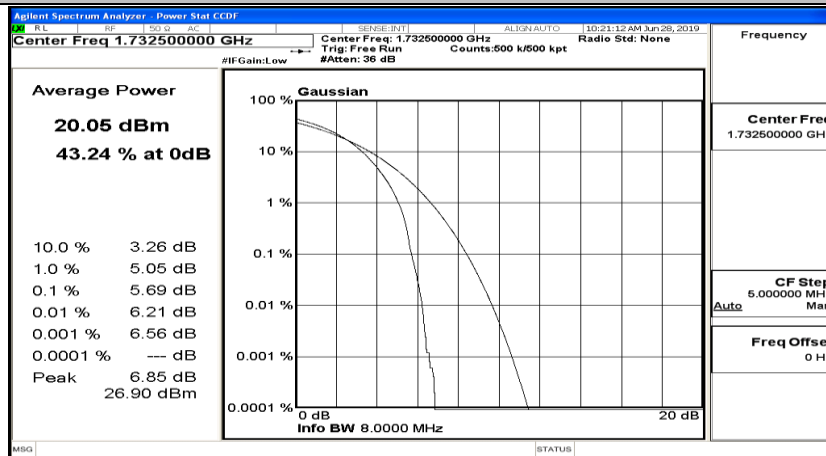
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_16QAM



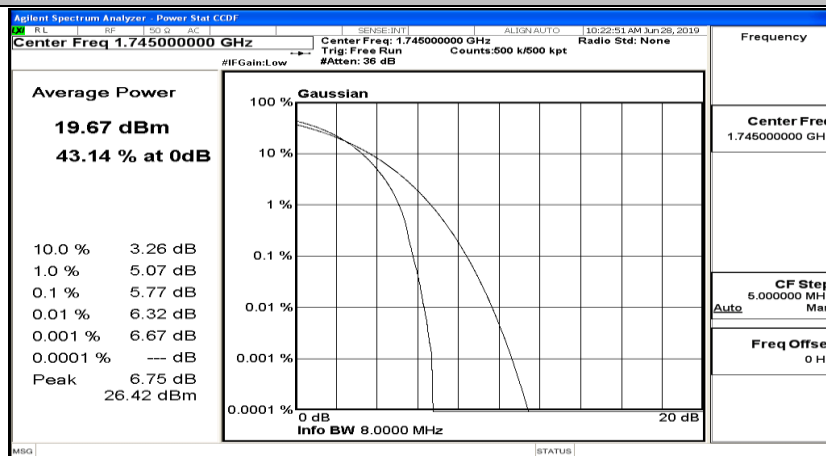
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_QPSK



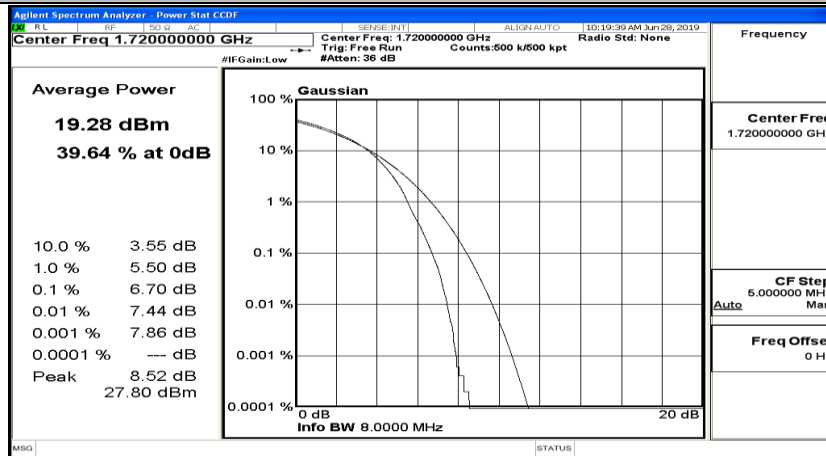
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_QPSK



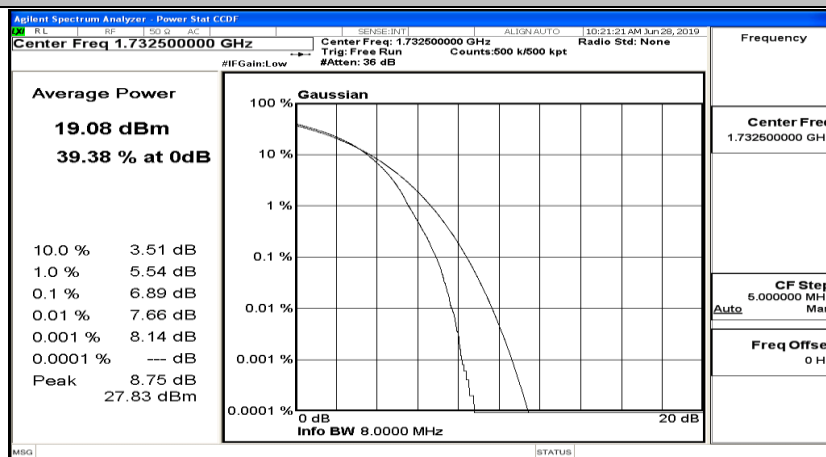
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_QPSK



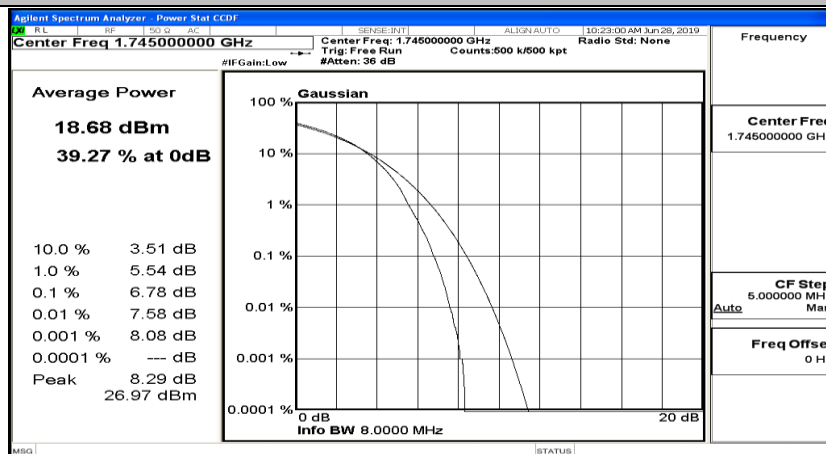
## Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_16QAM



## 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



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

<b>EBW &amp; OBW Test Result (Channel Bandwidth: 1.4 MHz)</b>				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0784	1.300	PASS
	MCH	1.0774	1.257	PASS
	HCH	1.0793	1.302	PASS
16QAM	LCH	1.0823	1.282	PASS
	MCH	1.0829	1.263	PASS
	HCH	1.0786	1.294	PASS

<b>EBW &amp; OBW Test Result (Channel Bandwidth: 3 MHz)</b>				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6841	2.915	PASS
	MCH	2.6814	2.899	PASS
	HCH	2.6859	2.905	PASS
16QAM	LCH	2.6856	2.913	PASS
	MCH	2.6883	2.909	PASS
	HCH	2.6863	2.949	PASS

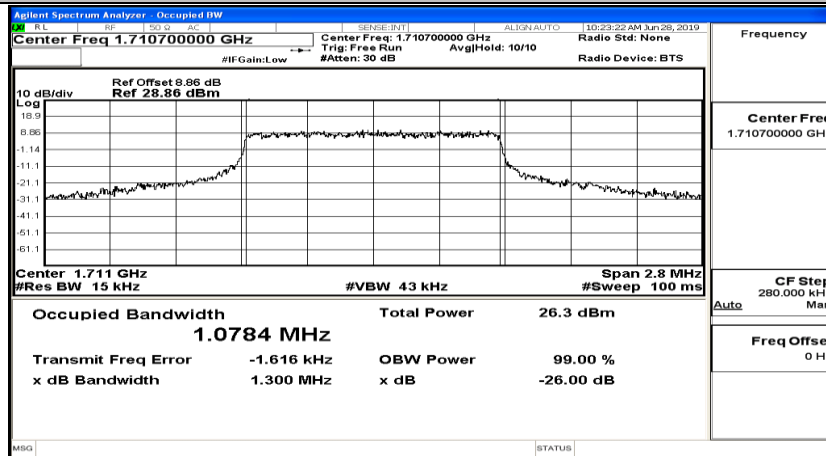
<b>EBW &amp; OBW Test Result (Channel Bandwidth: 5 MHz)</b>				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4821	4.809	PASS
	MCH	4.4747	4.773	PASS
	HCH	4.4696	4.837	PASS
16QAM	LCH	4.4667	4.834	PASS
	MCH	4.4730	4.835	PASS
	HCH	4.4791	4.912	PASS

<b>EBW &amp; OBW Test Result (Channel Bandwidth: 10 MHz)</b>				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9206	9.455	PASS
	MCH	8.9295	9.493	PASS
	HCH	8.9253	9.461	PASS
16QAM	LCH	8.9262	9.463	PASS
	MCH	8.9285	9.473	PASS
	HCH	8.9307	9.467	PASS

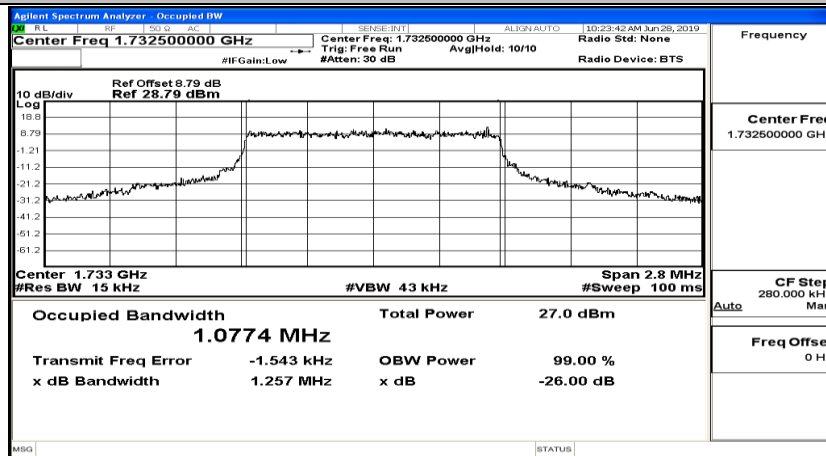
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.361	13.98	PASS
	MCH	13.403	14.07	PASS
	HCH	13.365	14.02	PASS
16QAM	LCH	13.361	13.98	PASS
	MCH	13.408	14.09	PASS
	HCH	13.370	14.04	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.804	18.52	PASS
	MCH	17.863	18.68	PASS
	HCH	17.840	18.58	PASS
16QAM	LCH	17.822	18.55	PASS
	MCH	17.878	18.67	PASS
	HCH	17.847	18.65	PASS

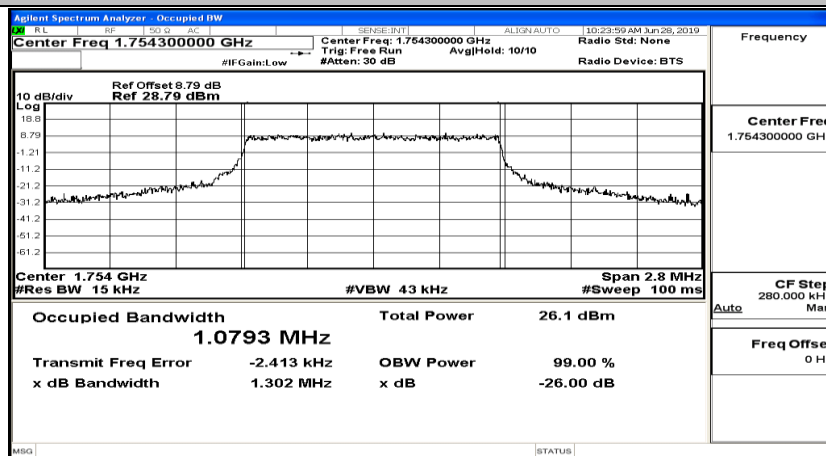
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



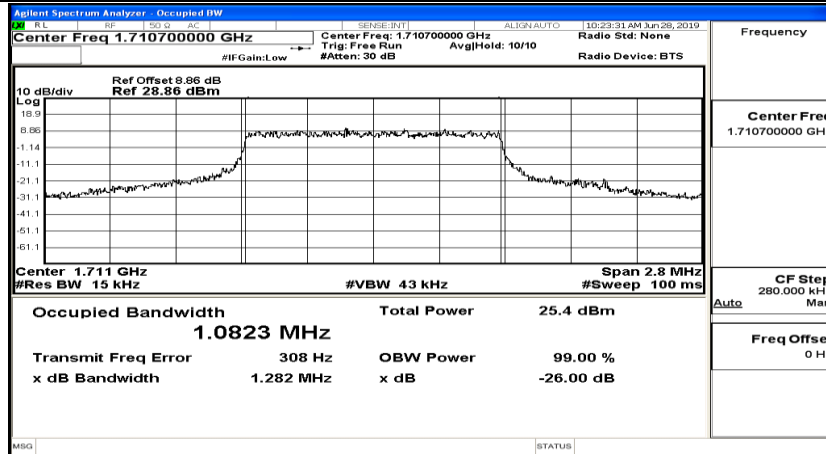
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



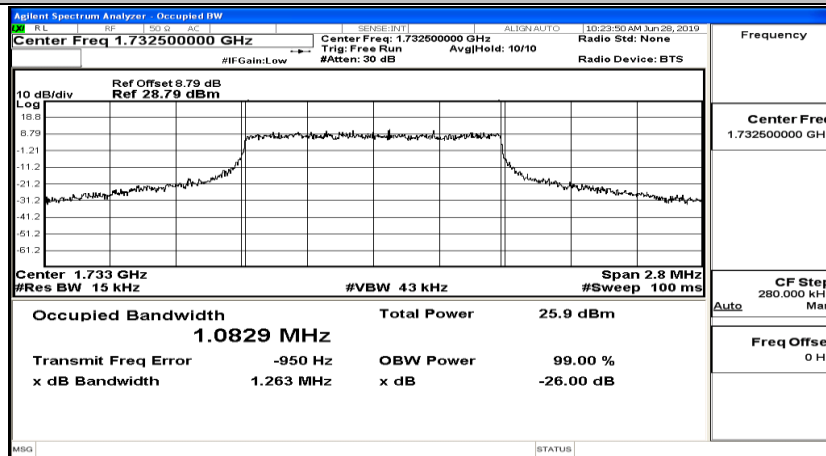
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



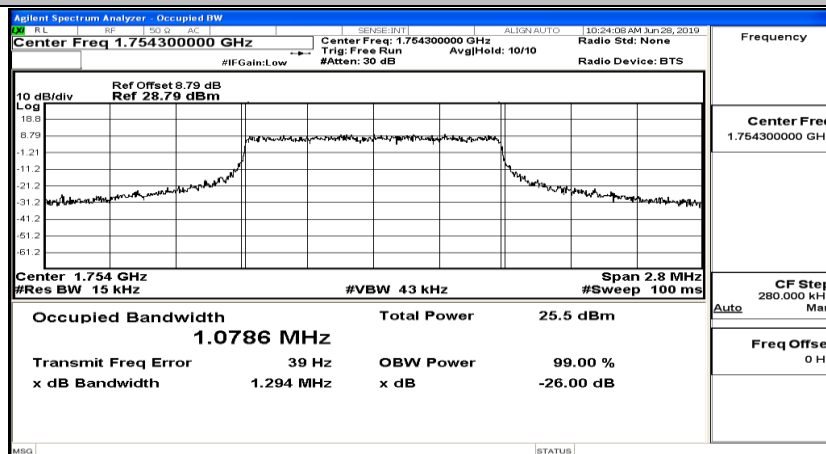
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



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

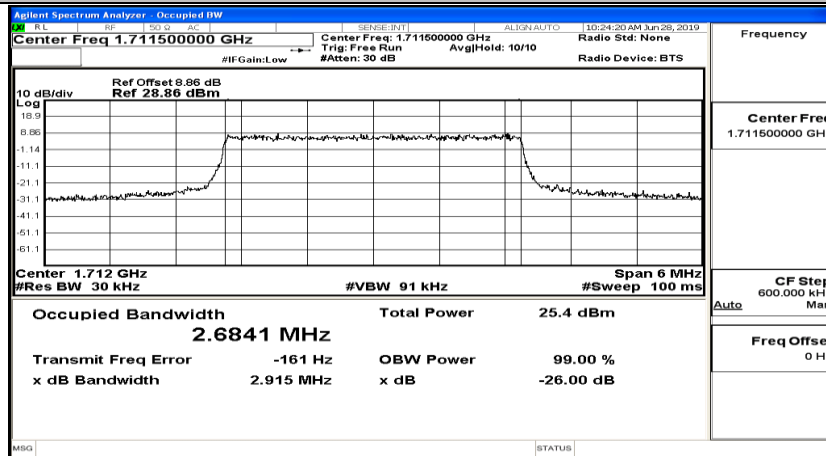


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM

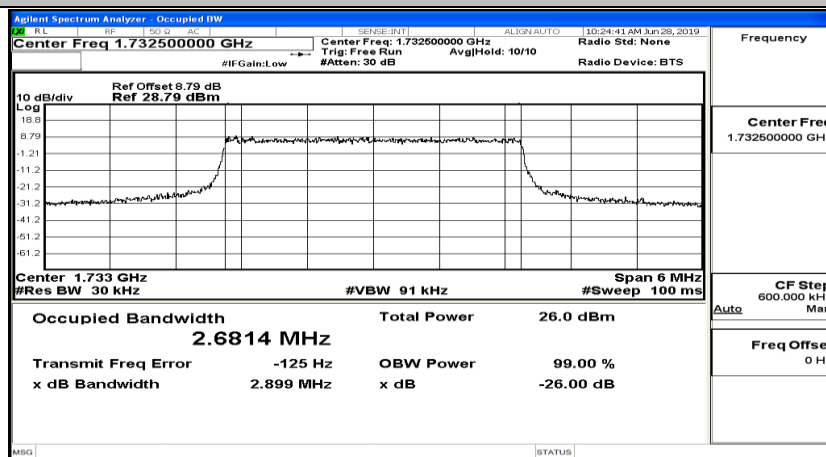




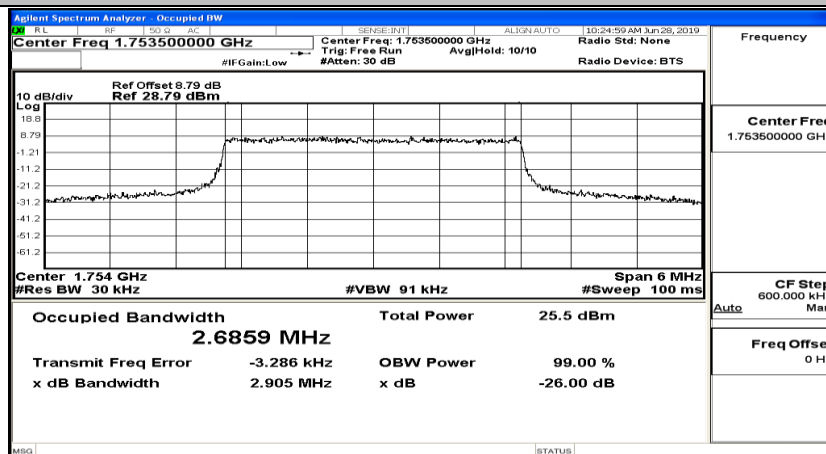
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



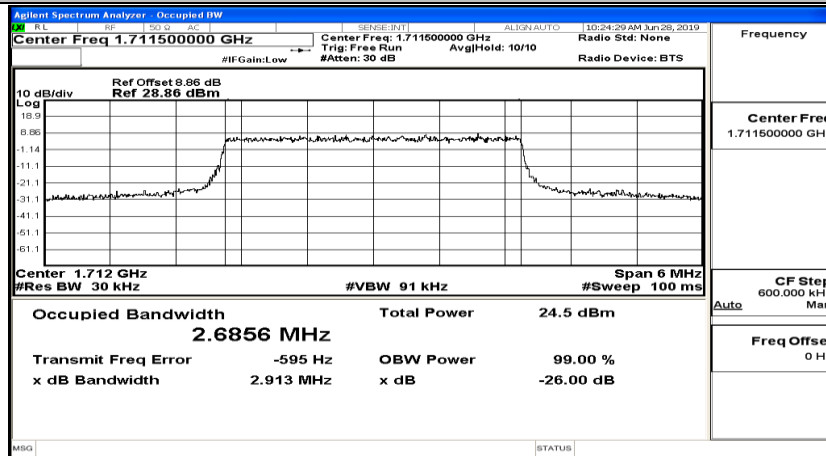
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_QPSK



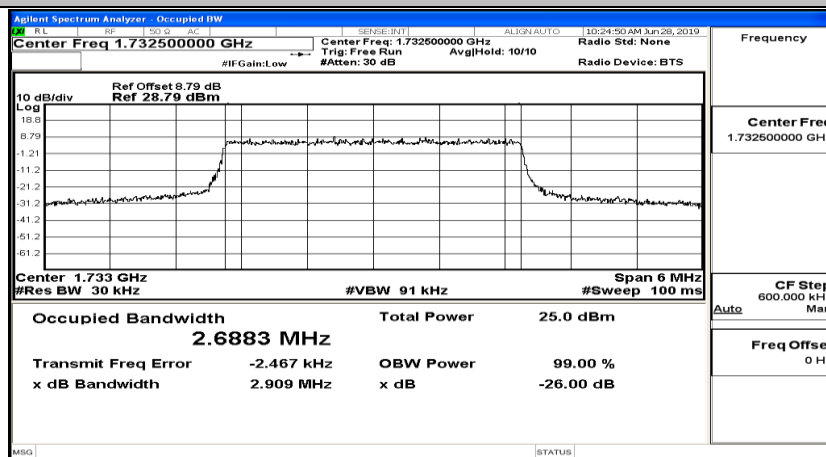
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



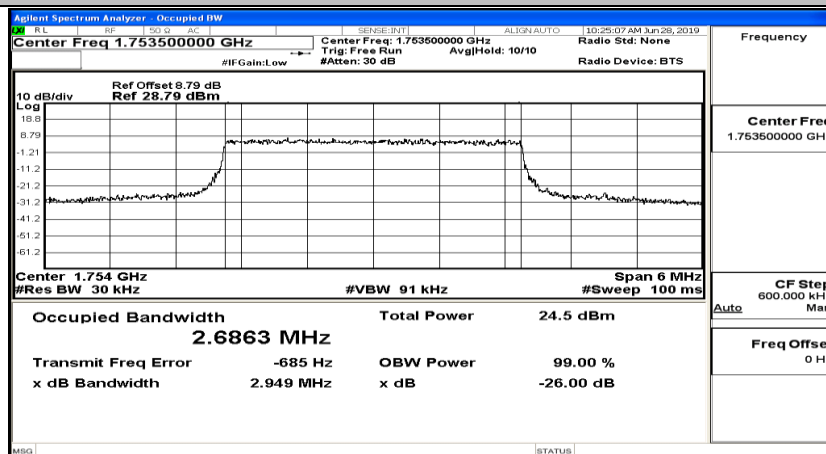
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



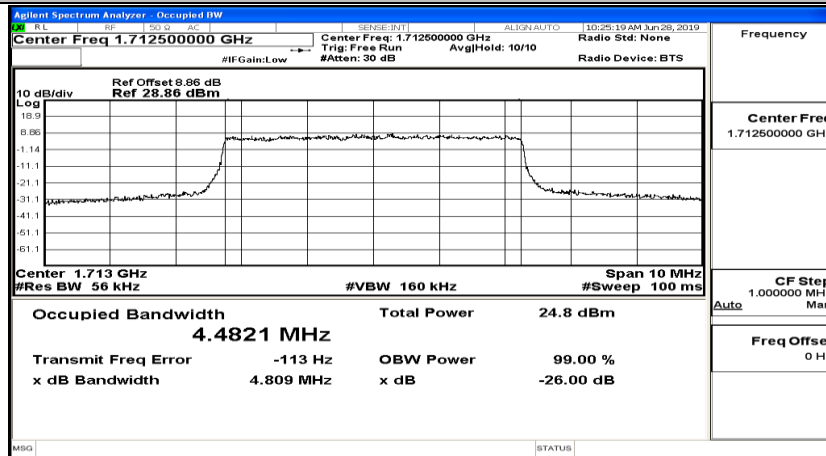
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_MCH\_16QAM



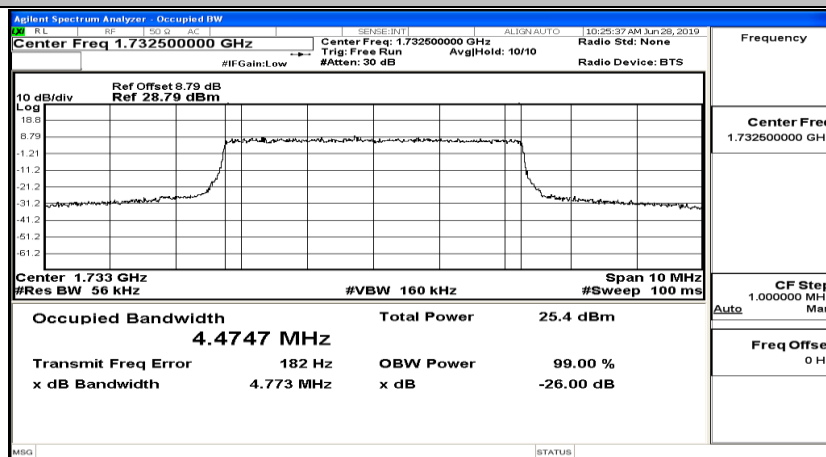
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



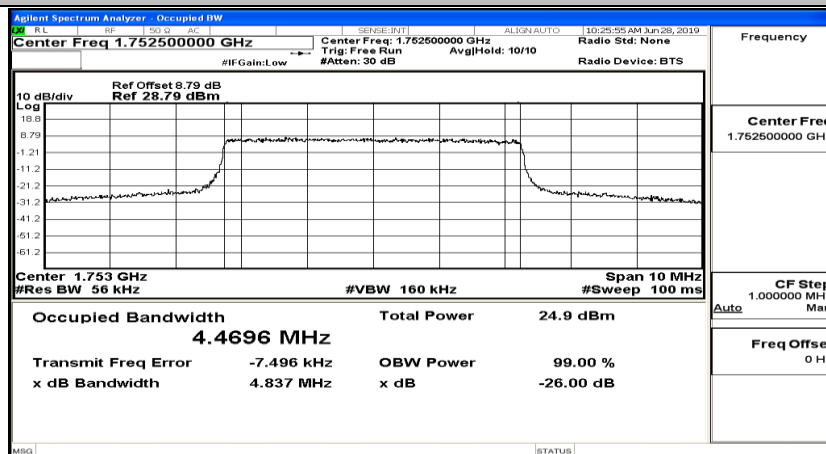
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



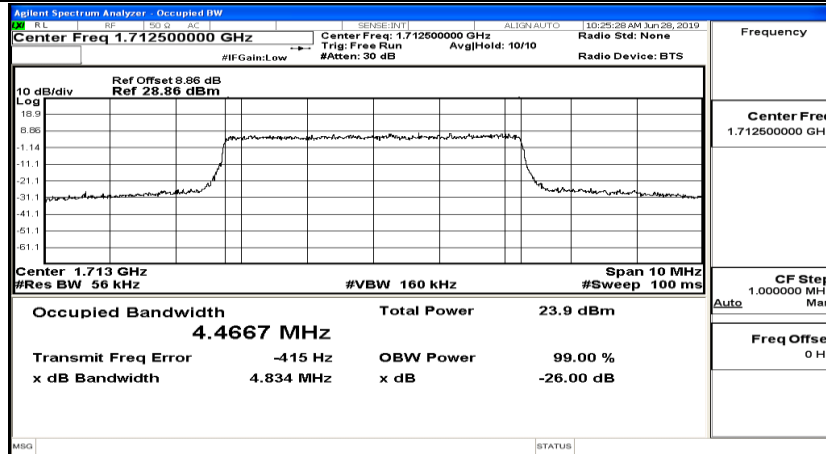
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_QPSK



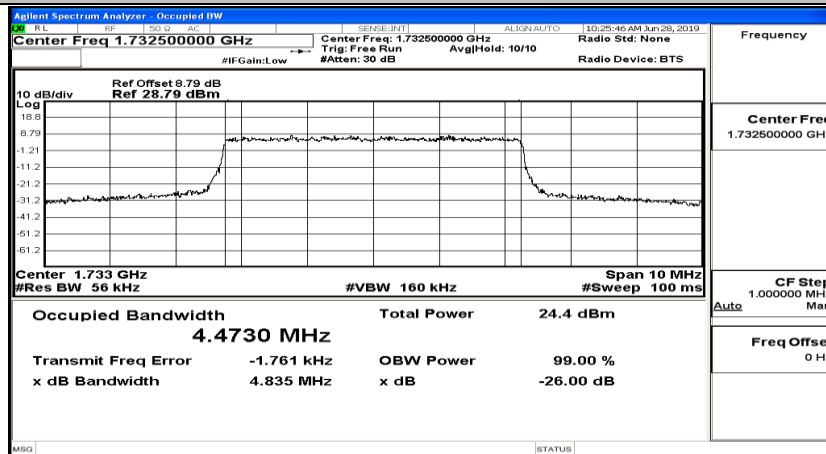
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



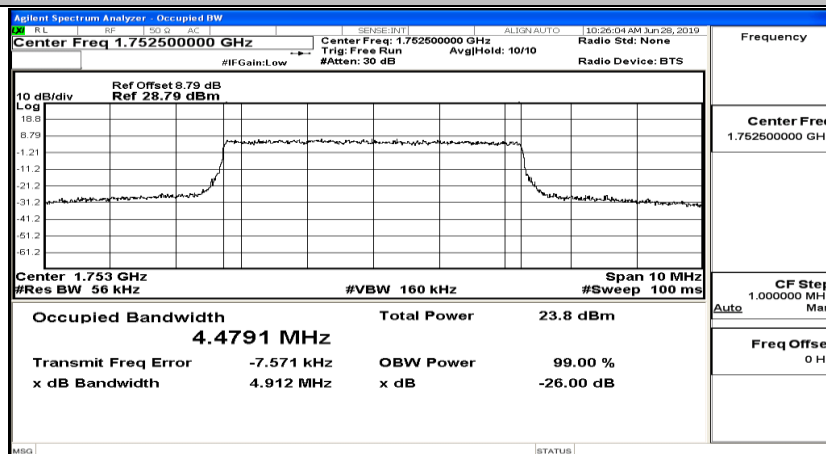
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



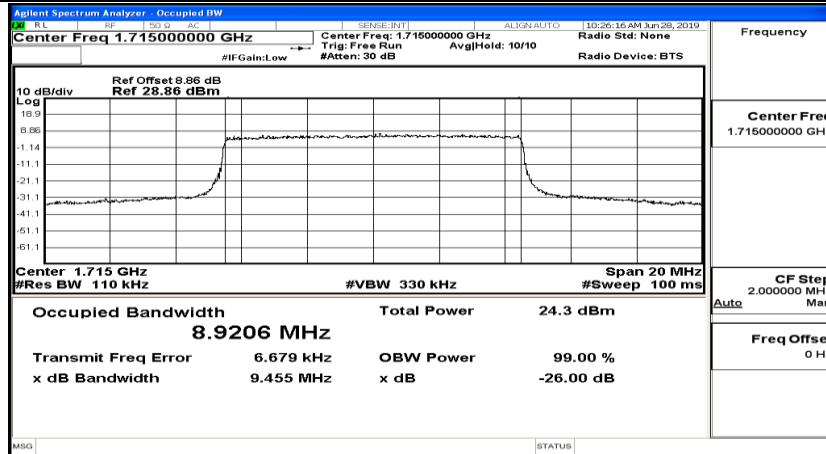
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_MCH\_16QAM



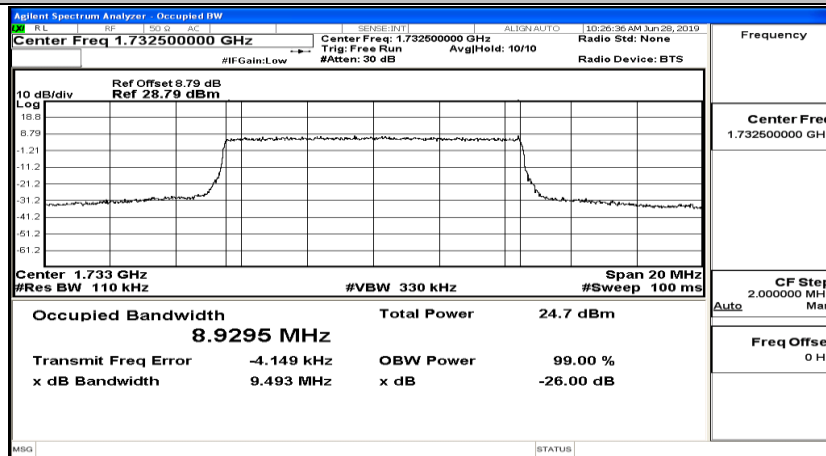
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



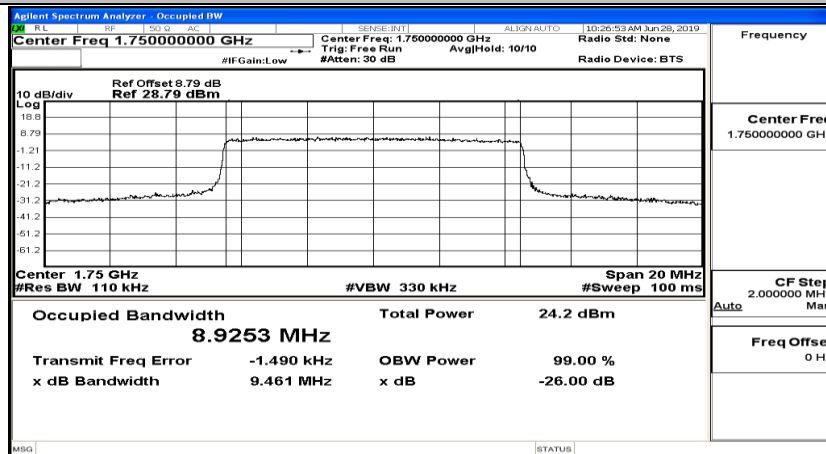
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



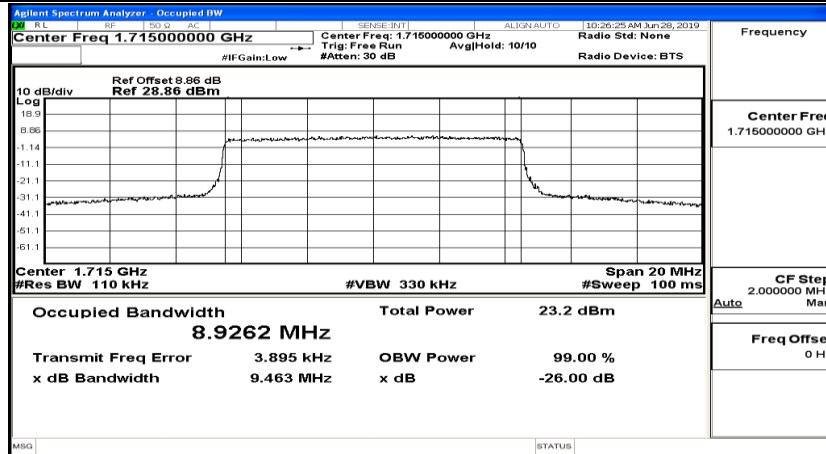
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_QPSK



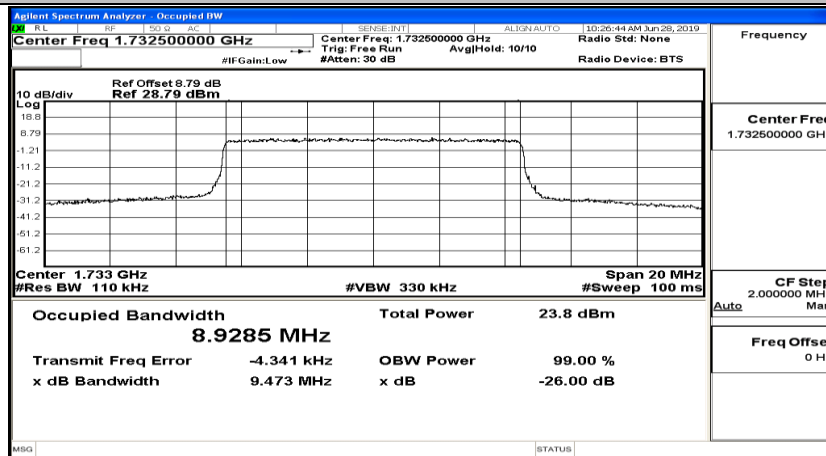
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



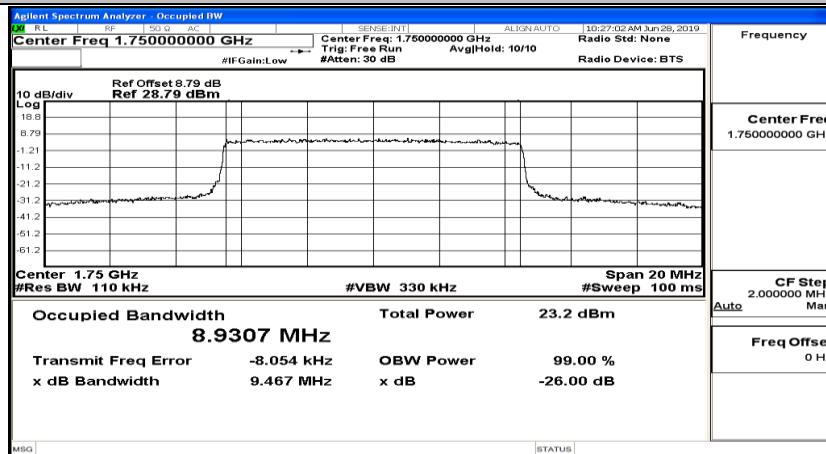
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



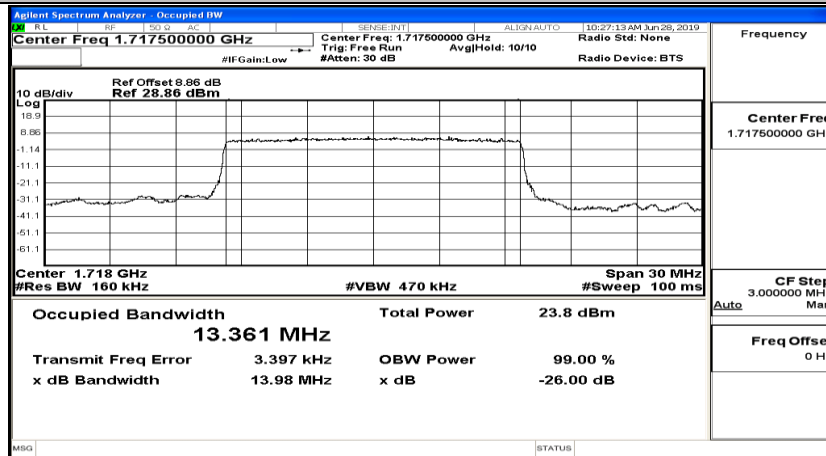
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_MCH\_16QAM



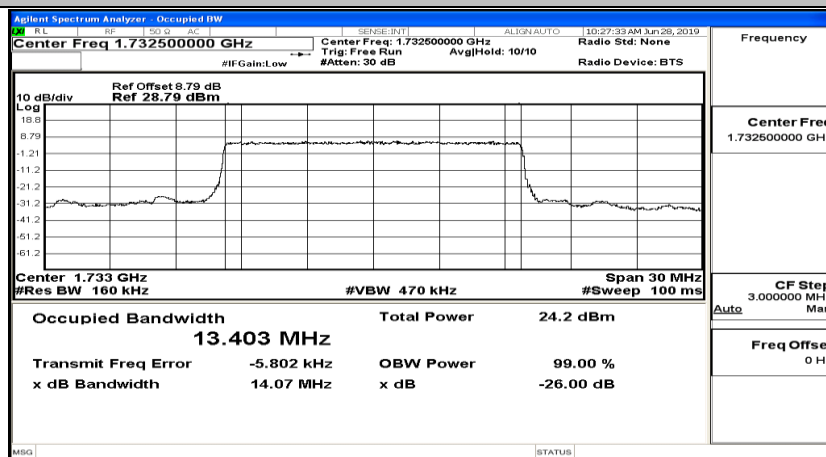
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



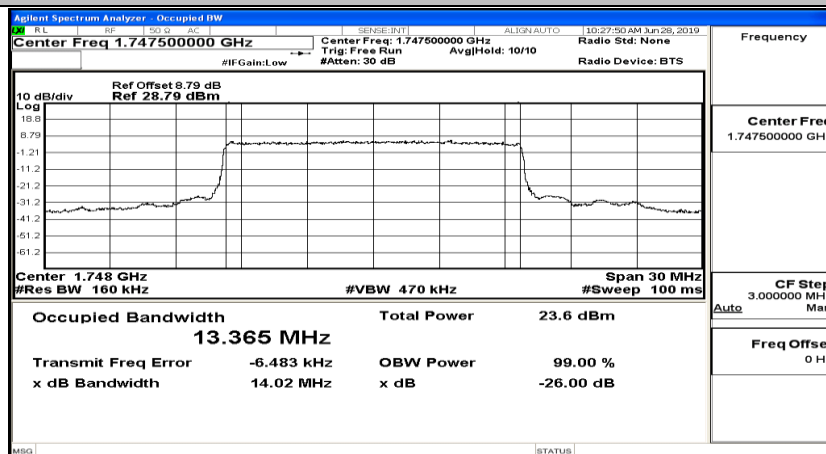
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_QPSK



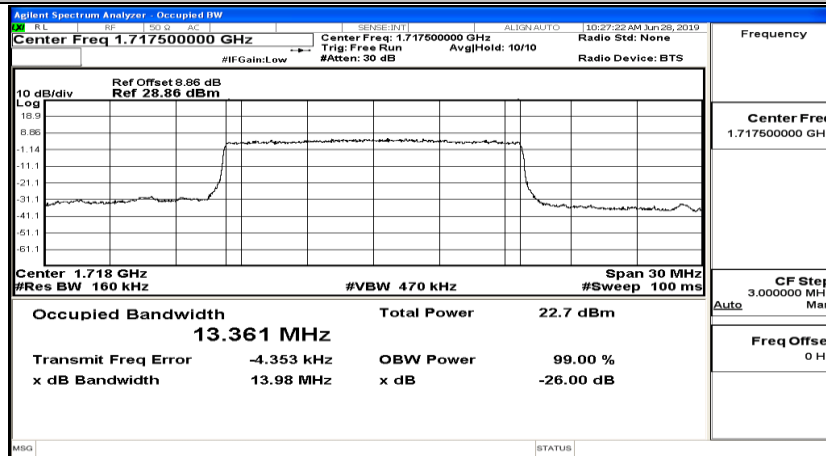
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_MCH\_QPSK



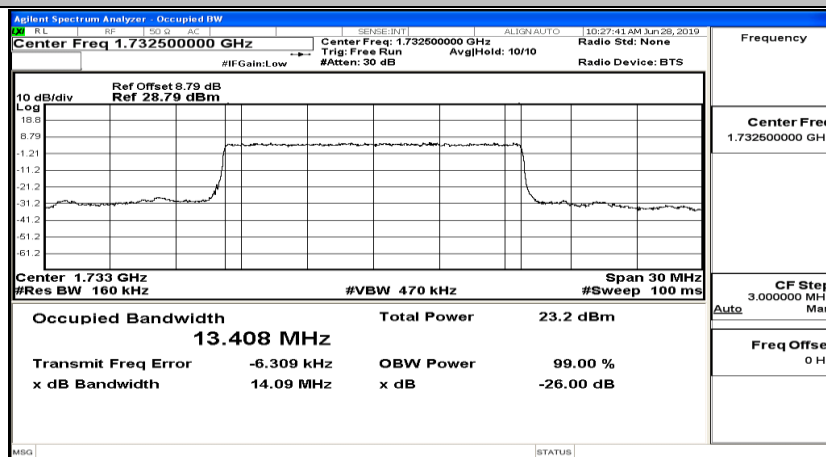
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK



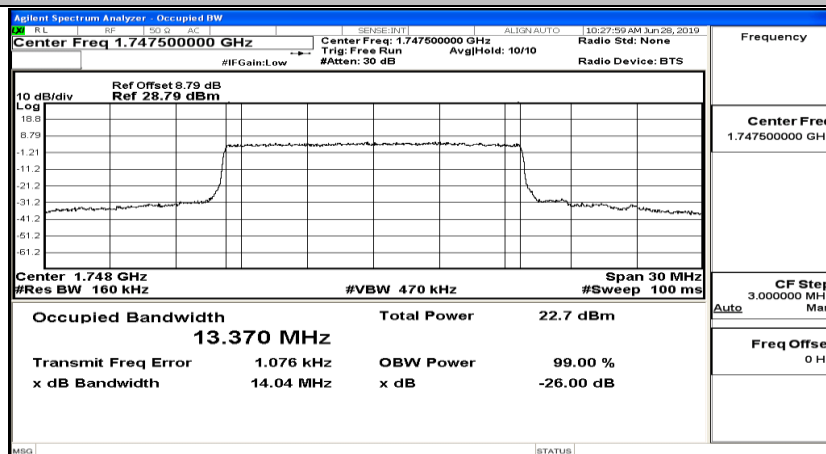
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



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

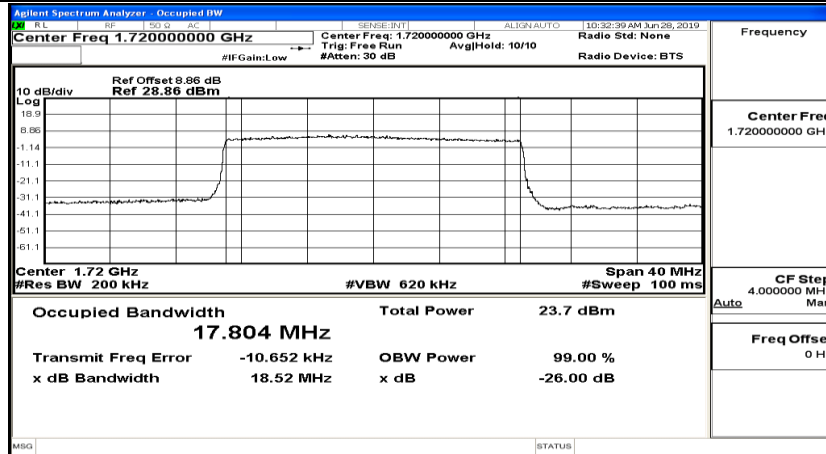


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_16QAM

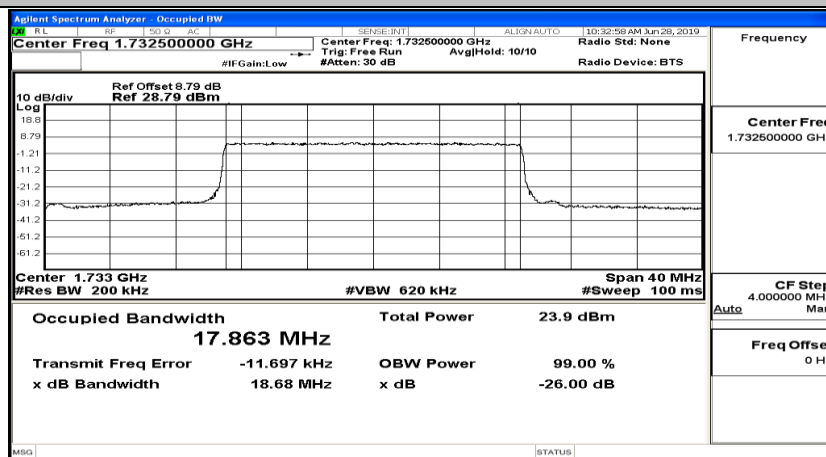




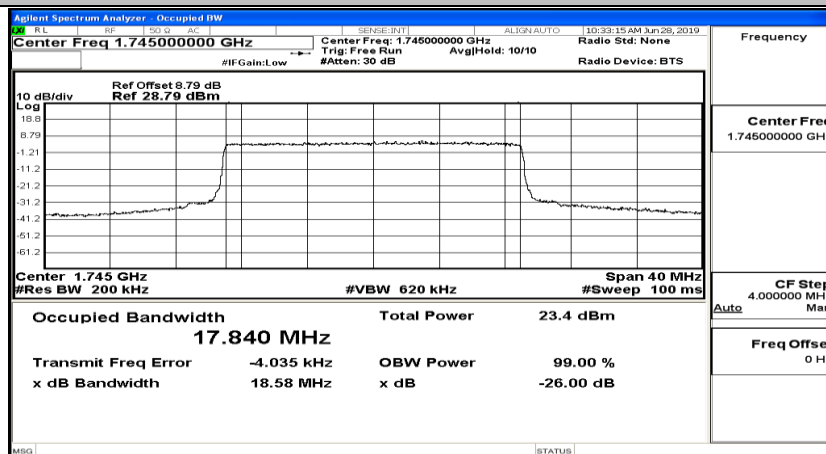
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_QPSK



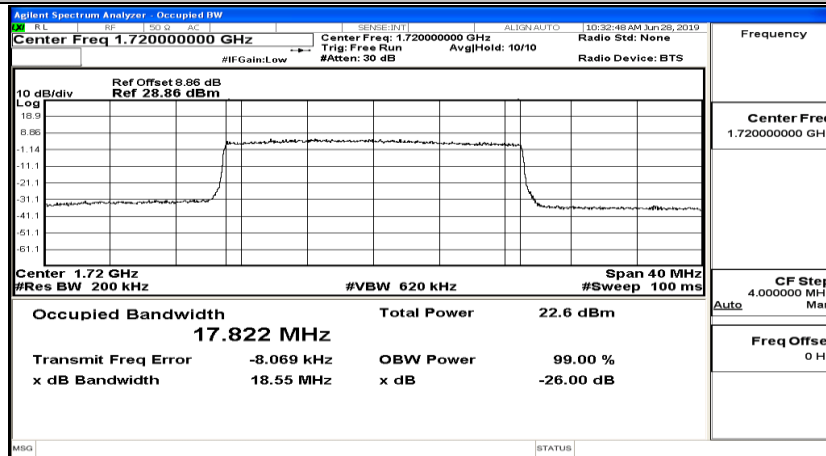
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_QPSK



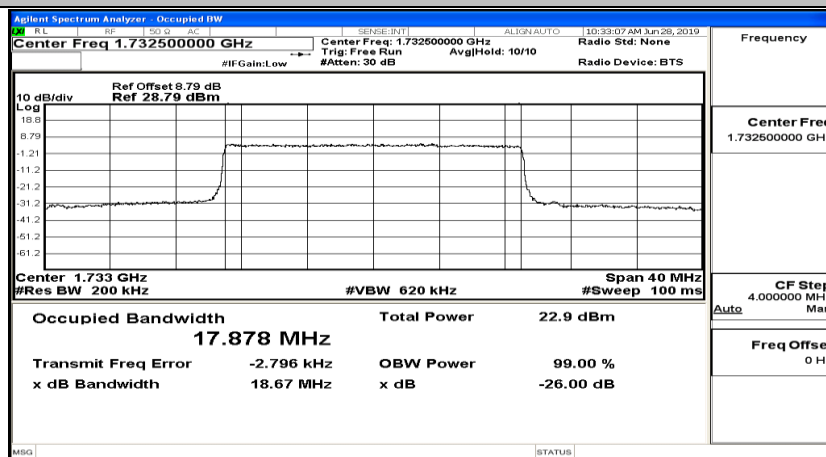
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_QPSK



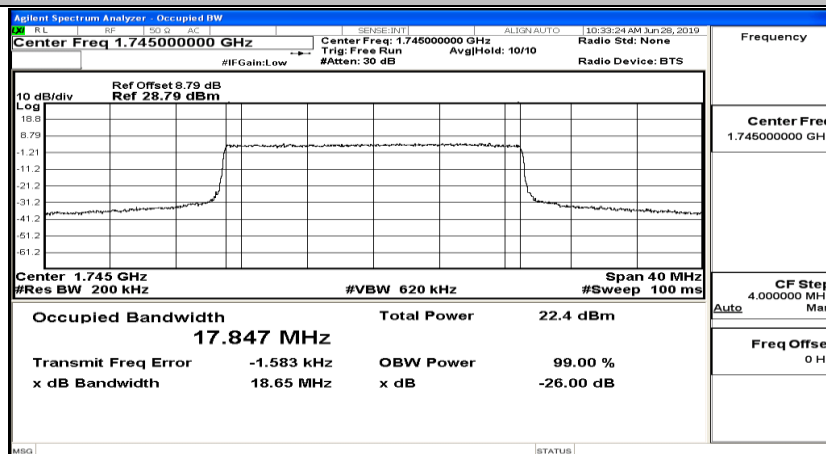
## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_16QAM



## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_MCH\_16QAM

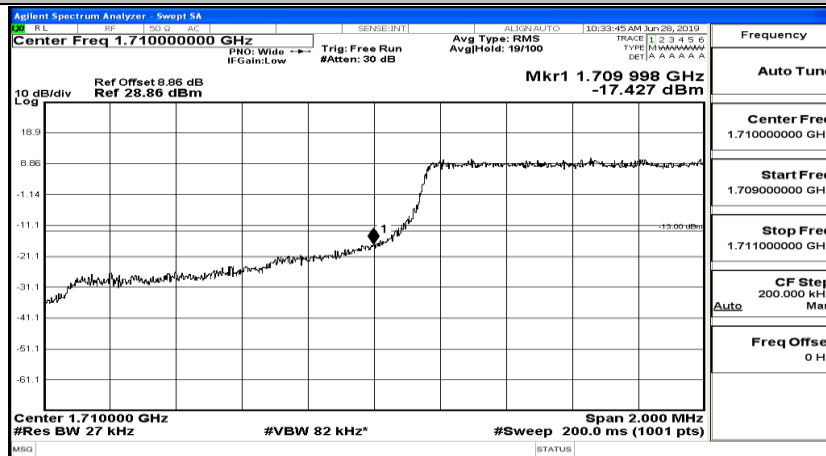


## EBW &amp; OBW Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_16QAM

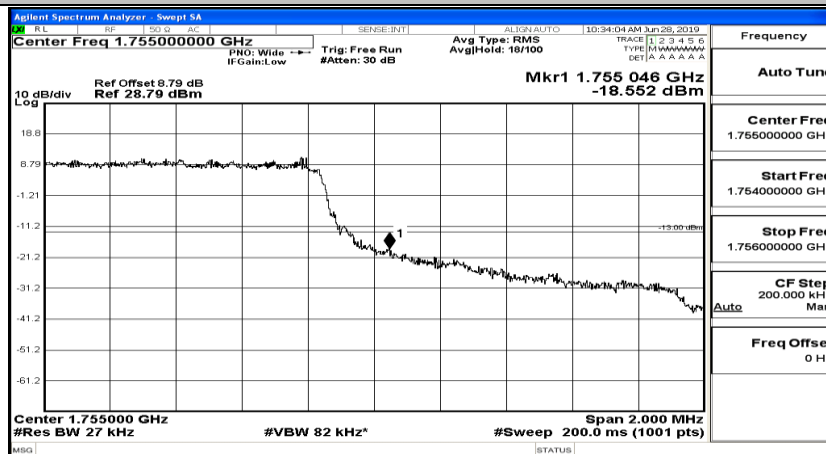


## E.4 Band Edge

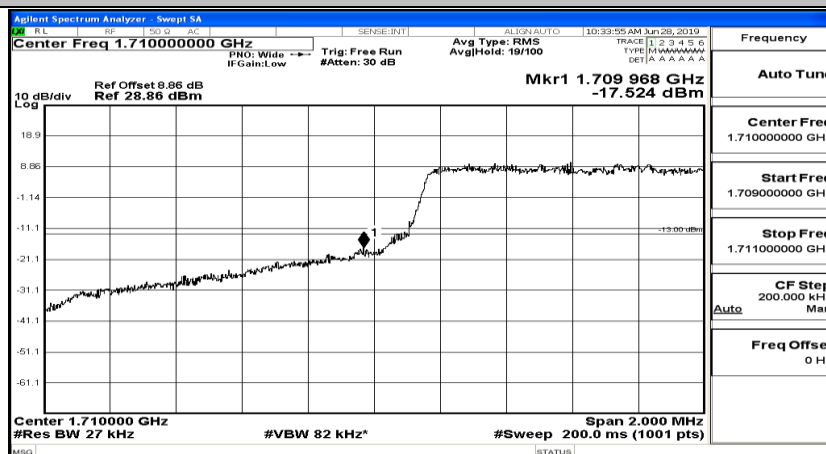
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



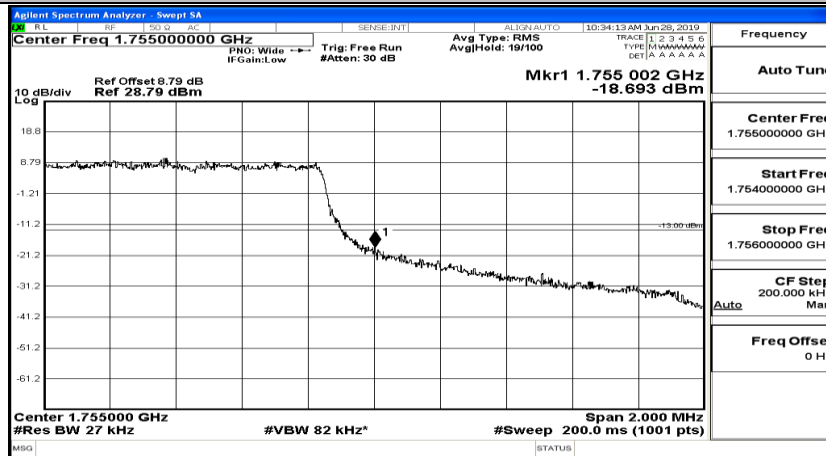
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



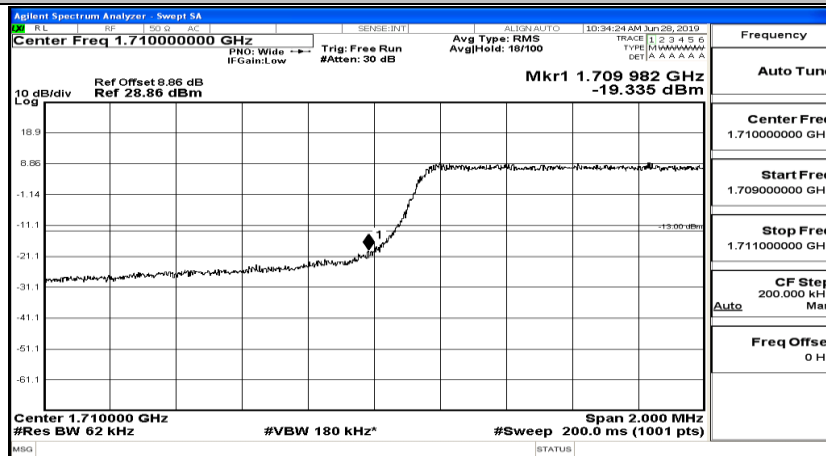
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



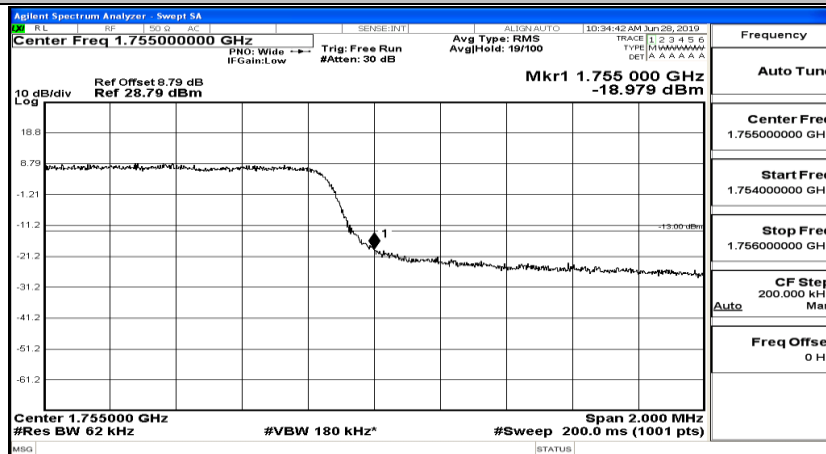
## Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM



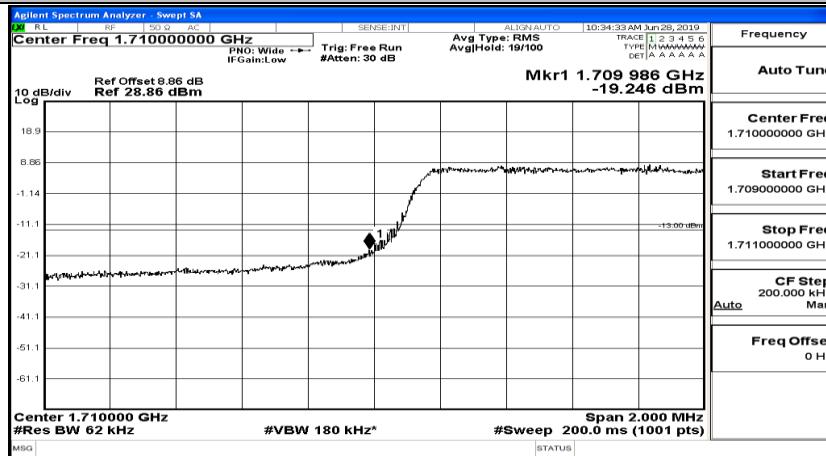
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_QPSK



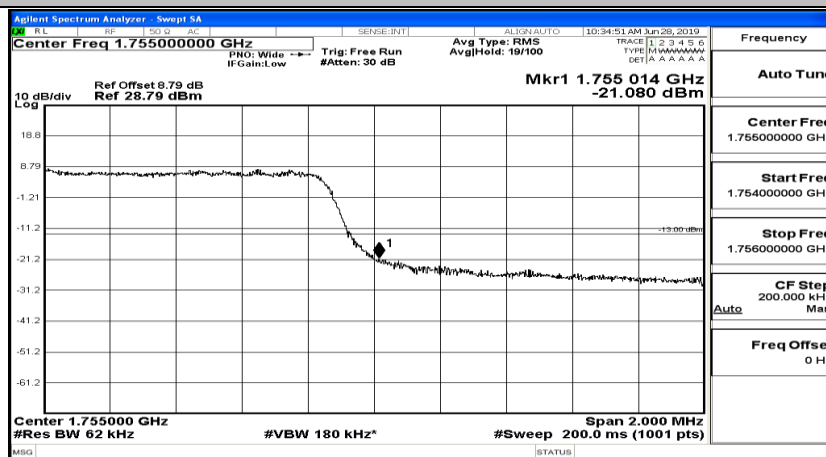
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_QPSK



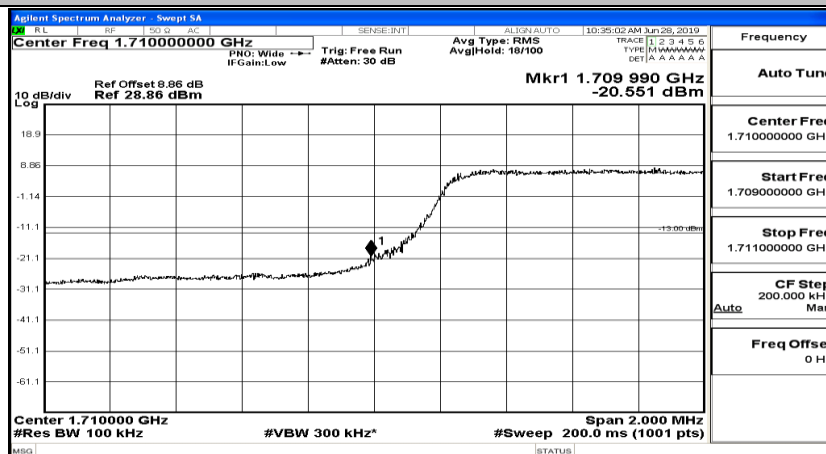
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_LCH\_16QAM



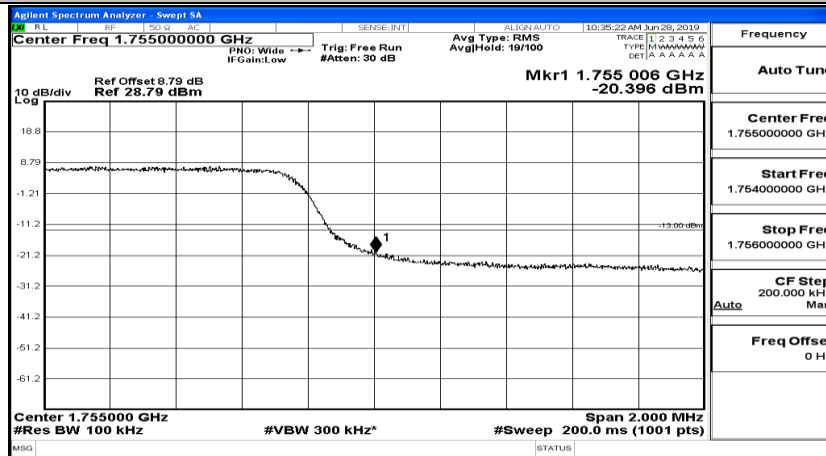
## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)\_HCH\_16QAM



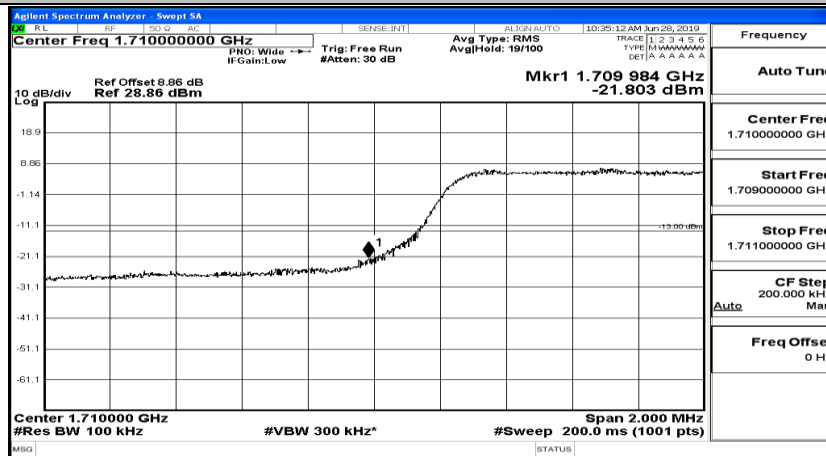
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_QPSK



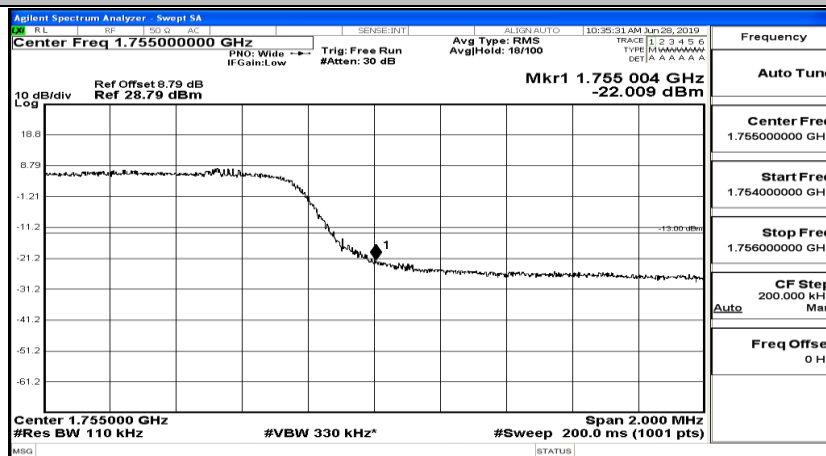
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK



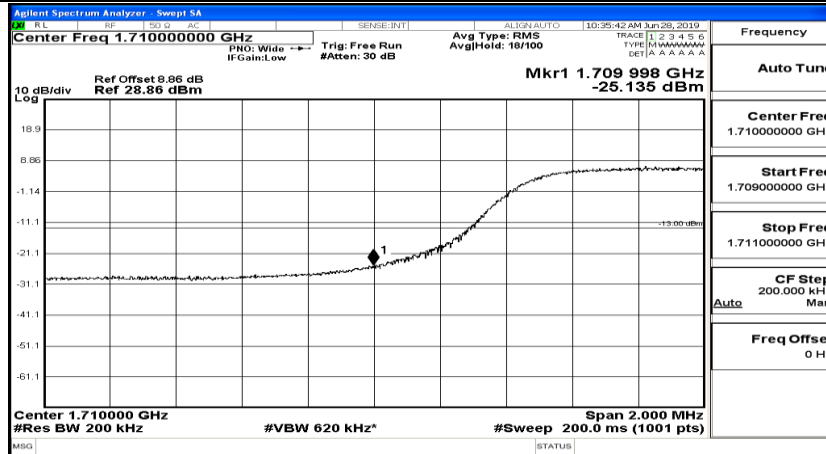
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_LCH\_16QAM



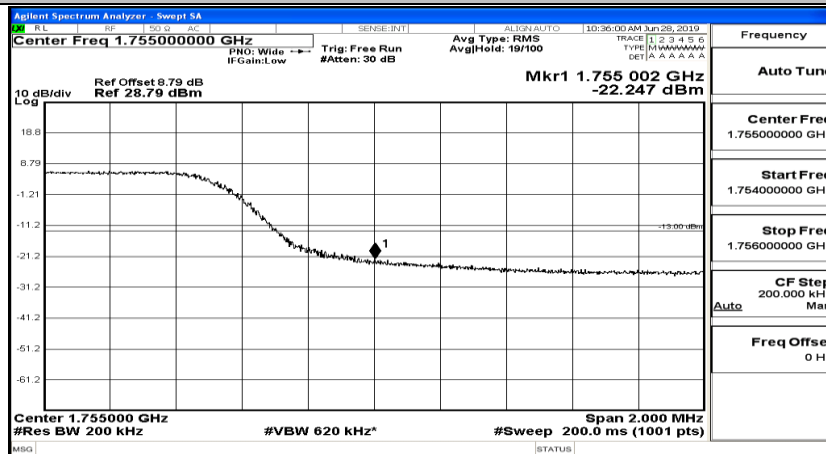
## Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_16QAM



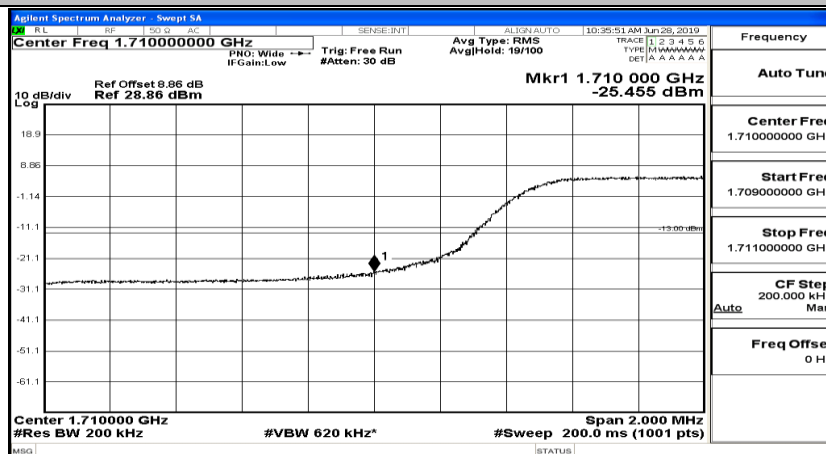
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_QPSK



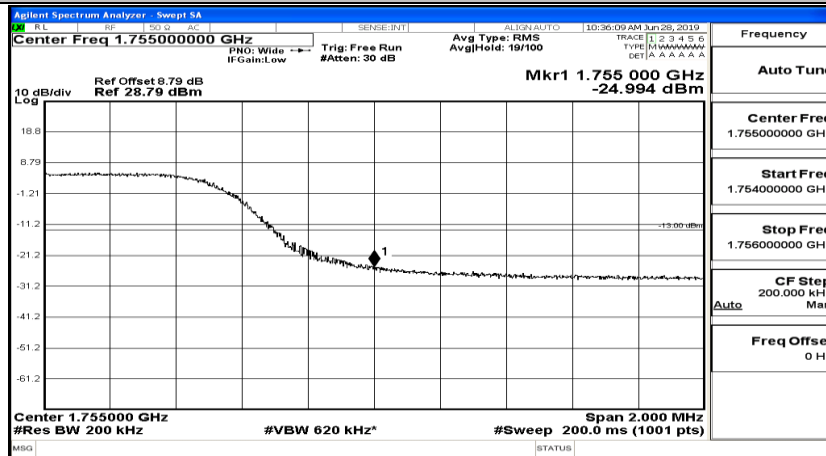
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_QPSK



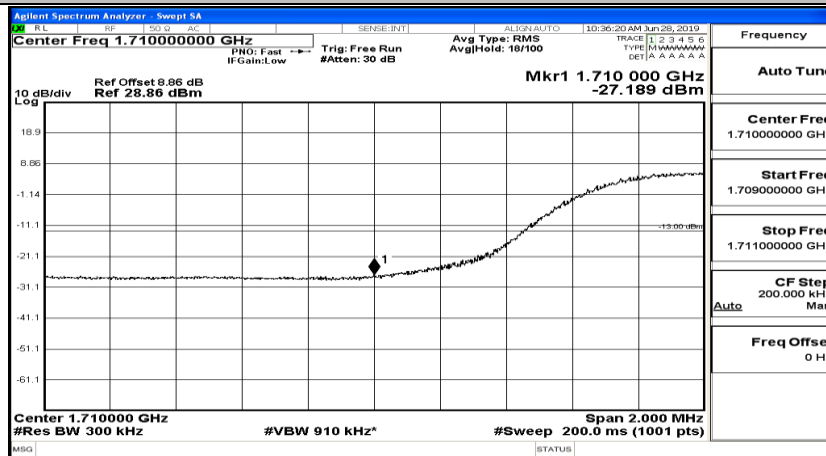
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_LCH\_16QAM



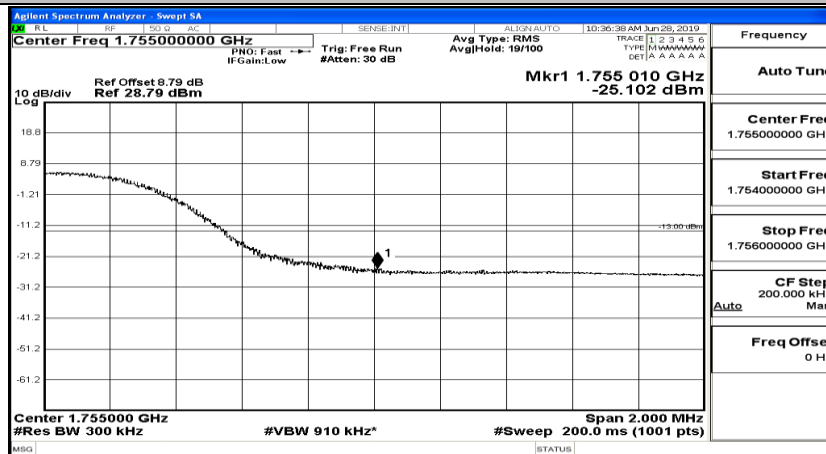
## Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)\_HCH\_16QAM



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

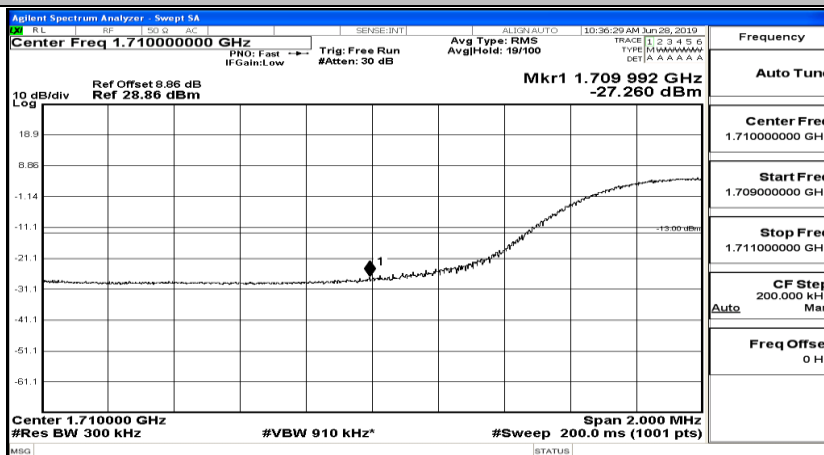


## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_QPSK

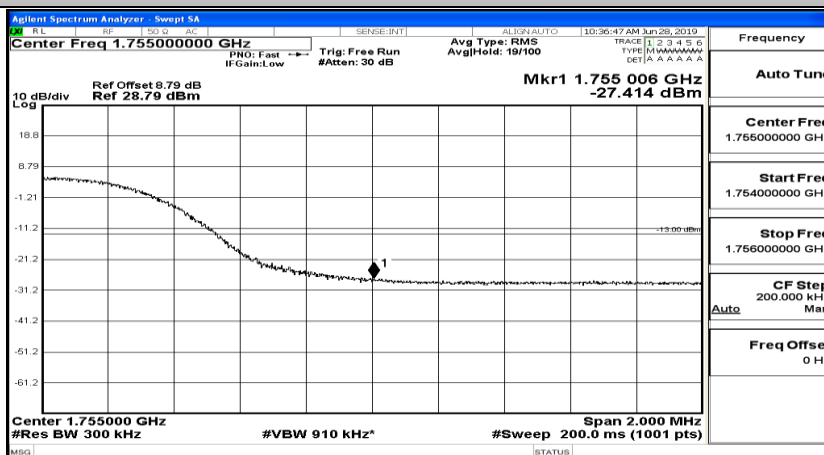




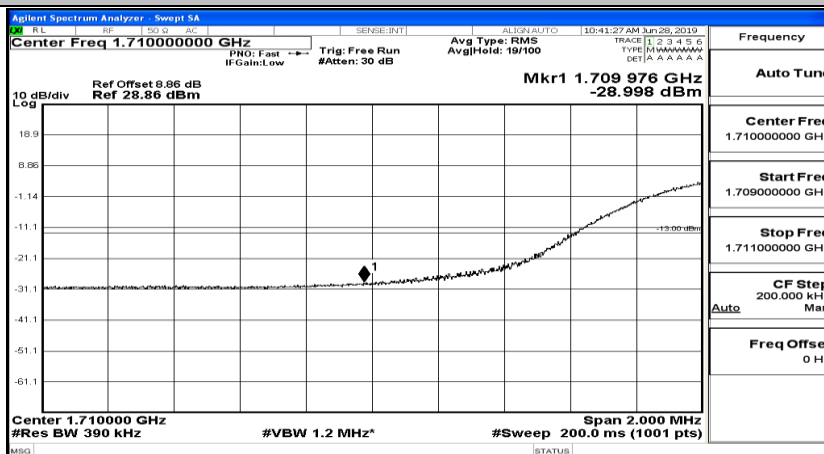
## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_LCH\_16QAM



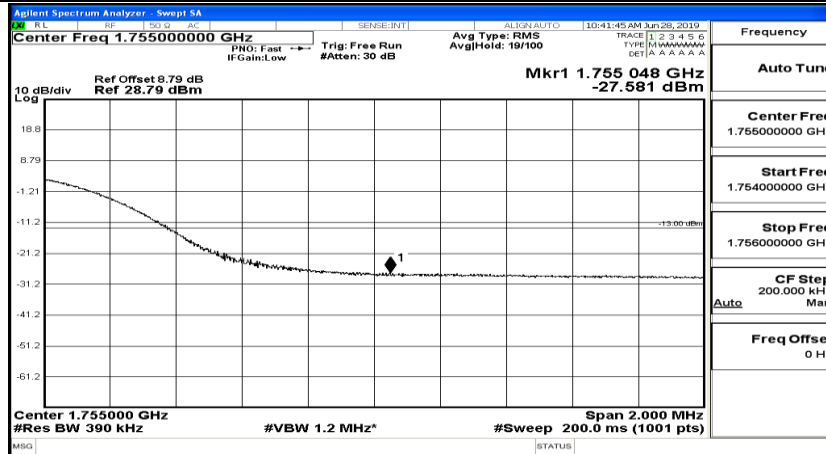
## Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)\_HCH\_16QAM



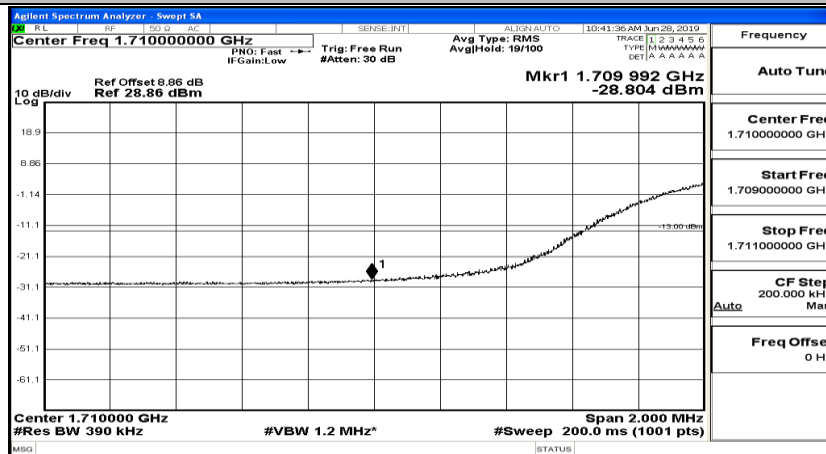
## Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_QPSK



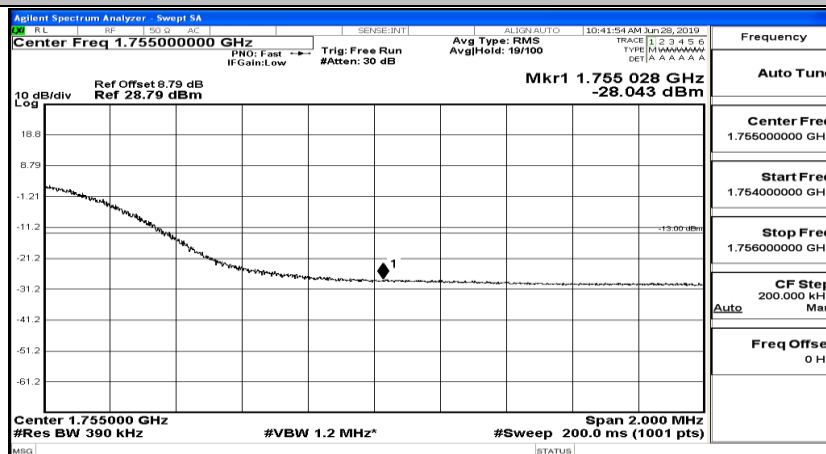
## Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_QPSK



## Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)\_LCH\_16QAM

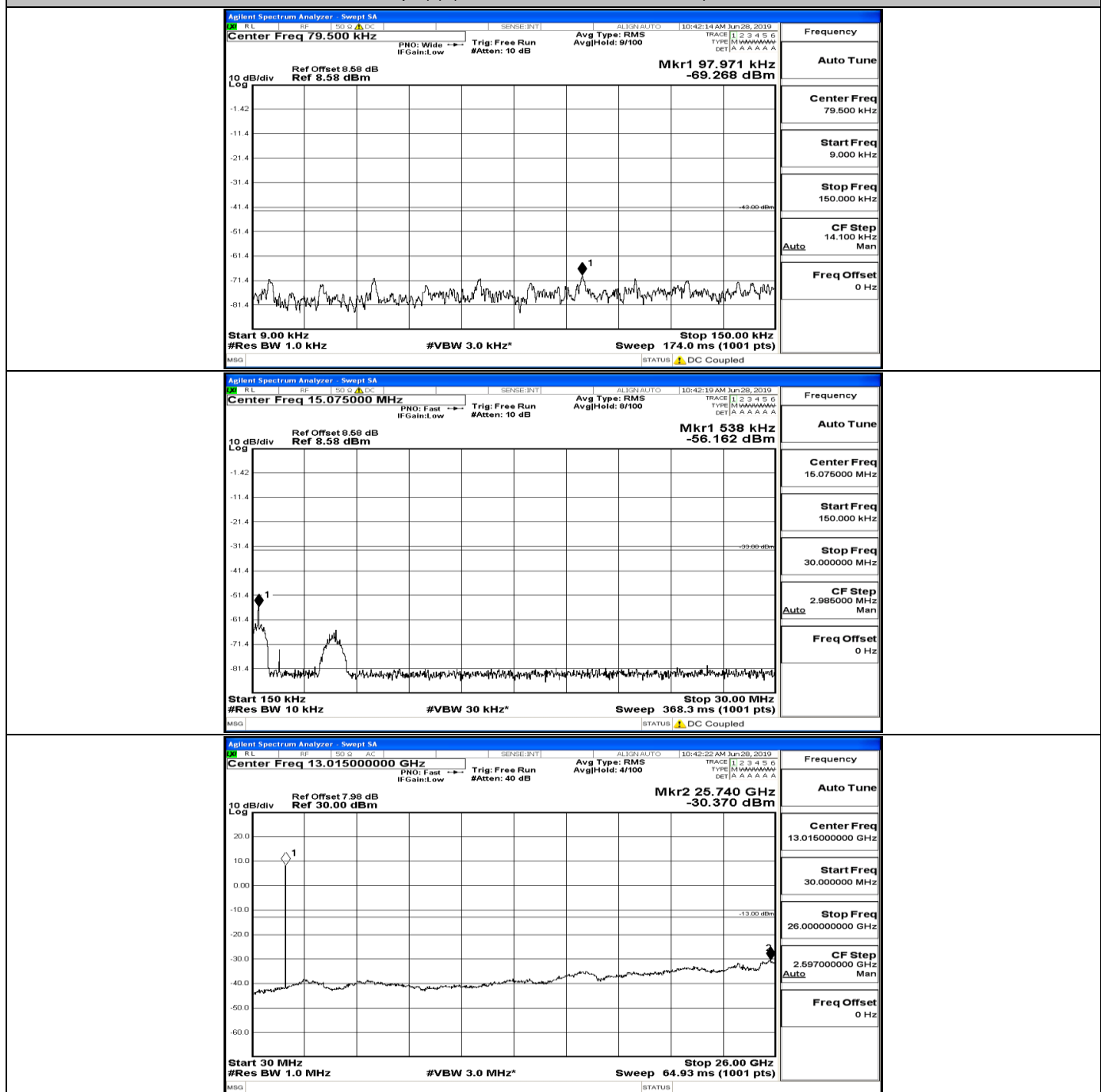


## Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)\_HCH\_16QAM

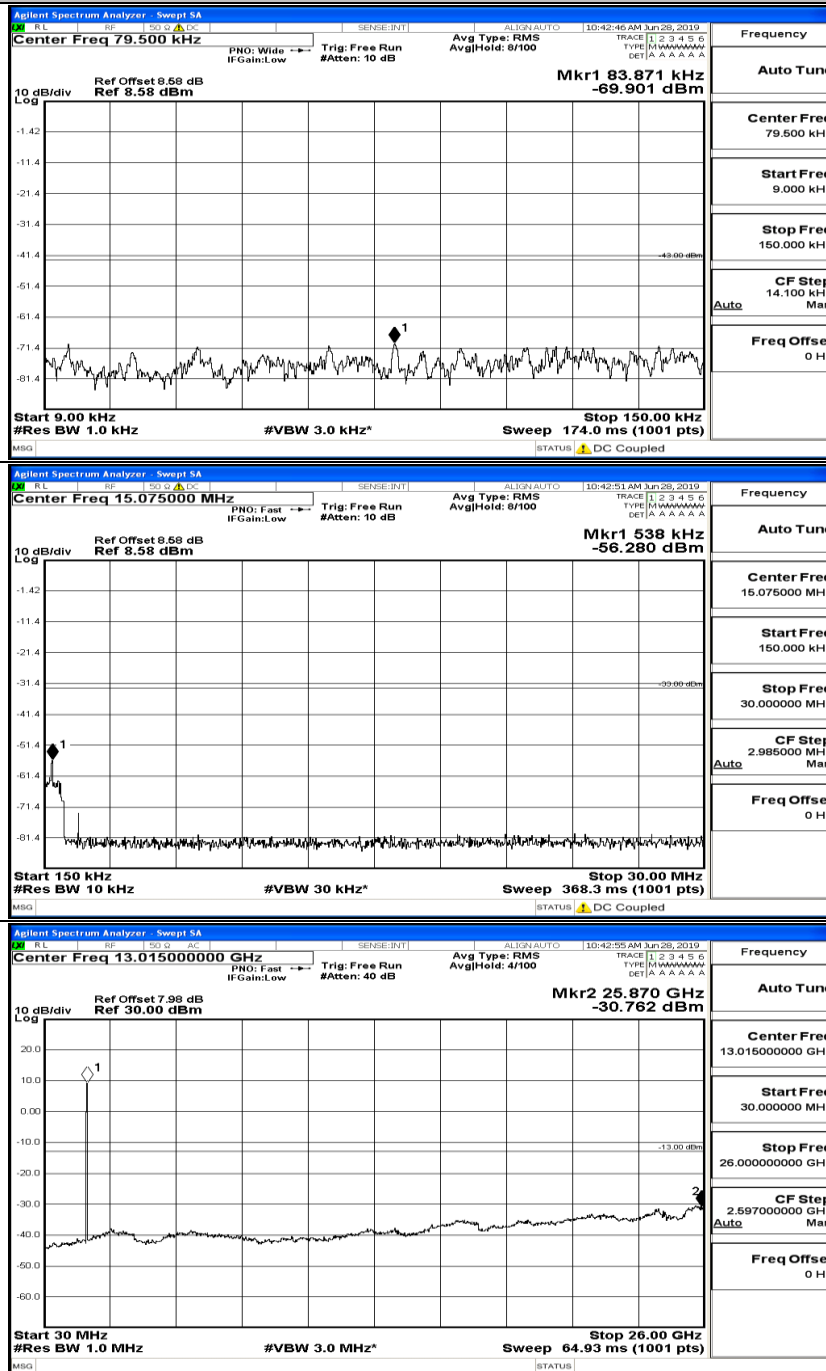


## E.5 Conducted Spurious Emission

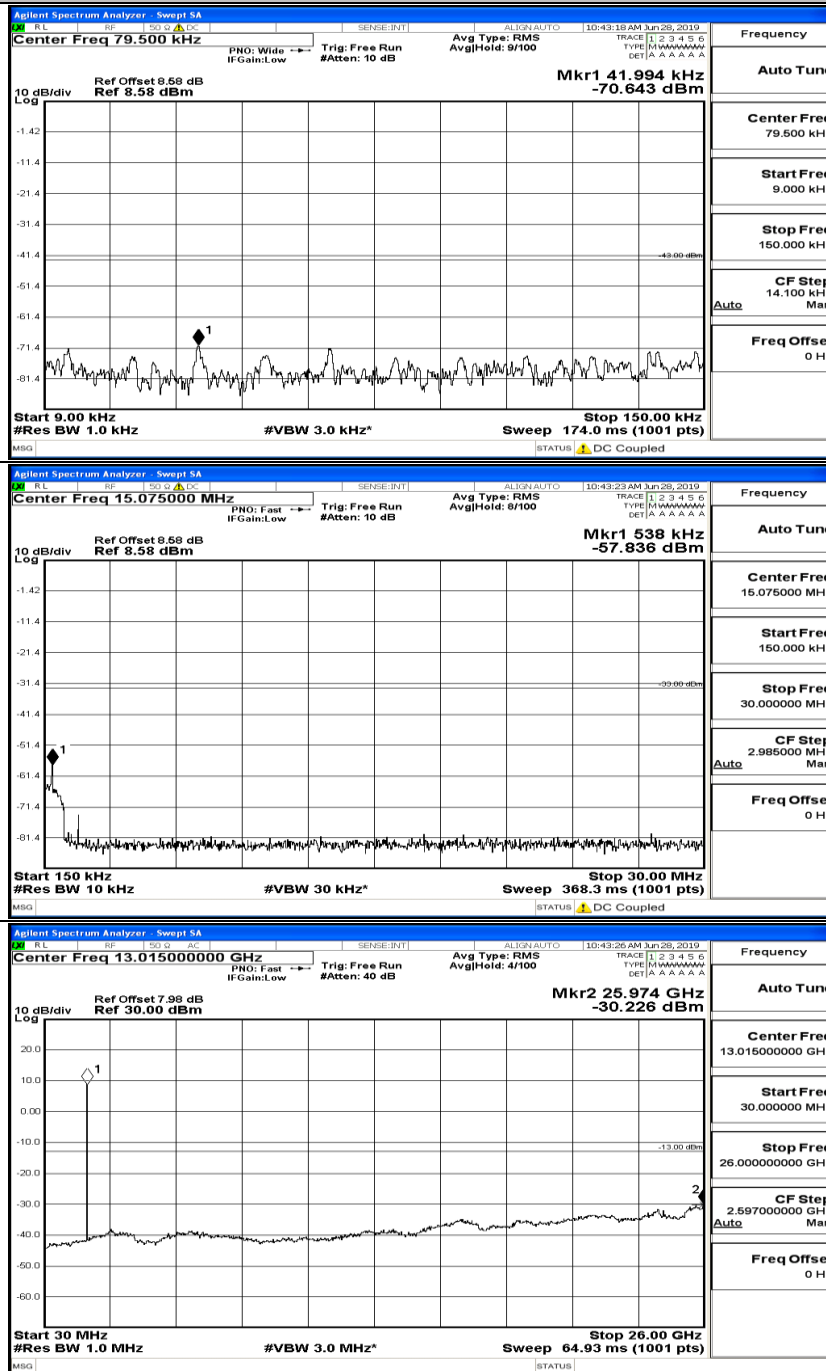
CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK



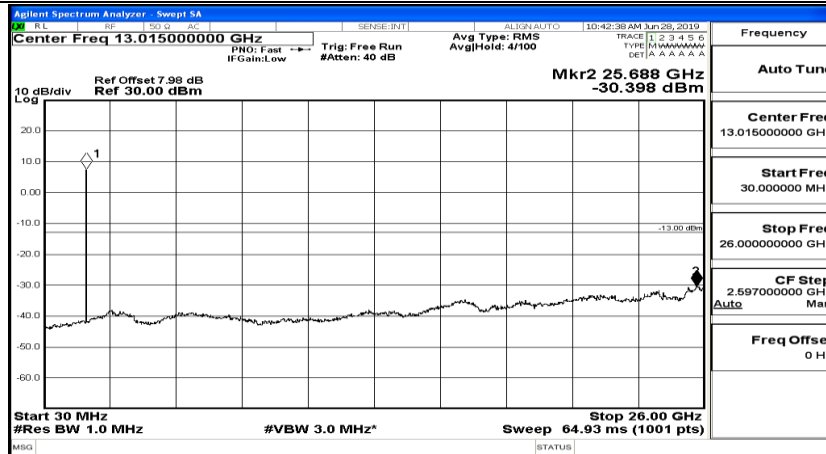
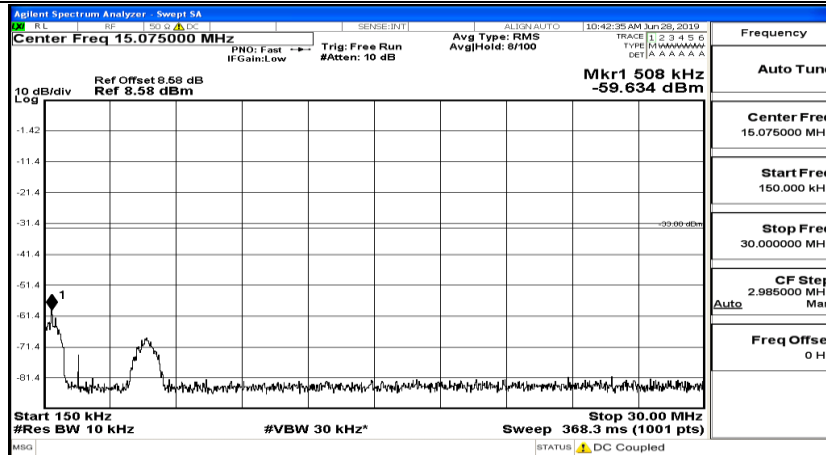
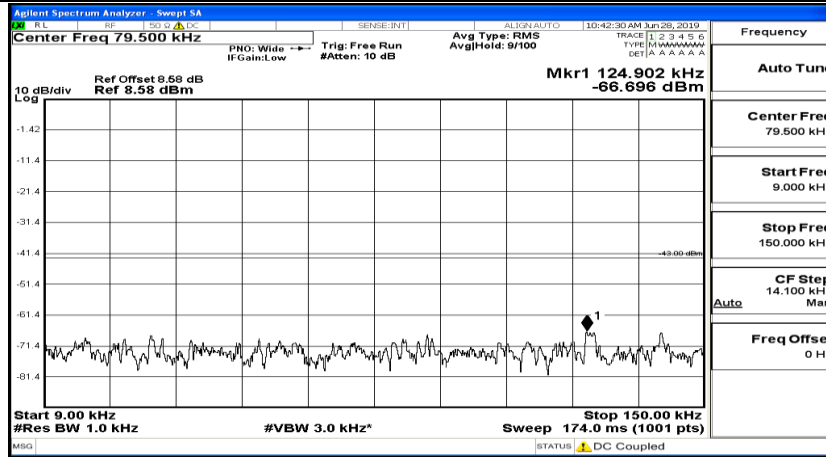
## CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK



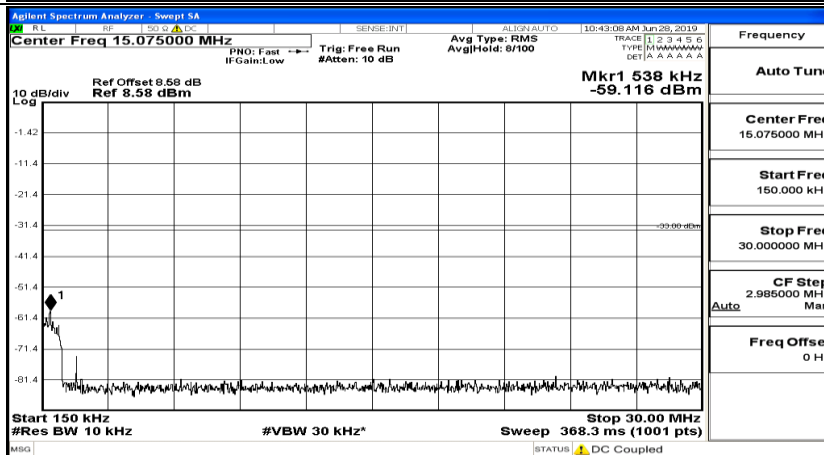
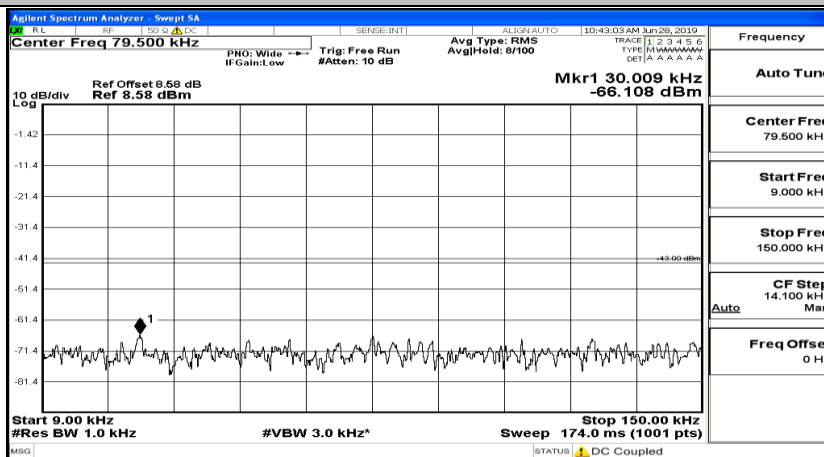
## CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK



## CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM



## CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM



**CSE Test Graph(s) (Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM**

**Agilent Spectrum Analyzer - Sweep SA**

**Center Freq 79.500 kHz**

Ref Offset 8.58 dB  
Ref 8.58 dBm

Mkr1 30.009 kHz  
-68.847 dBm

Start 9.00 kHz  
#Res BW 1.0 kHz  
#VBW 3.0 kHz\*

Stop 150.00 kHz  
Sweep 174.0 ms (1001 pts)

Frequency

Auto Tune

Center Freq 79.500 kHz

Start Freq 9.000 kHz

Stop Freq 150.000 kHz

CF Step 14.100 kHz  
Man

Freq Offset 0 Hz

STATUS: DC Coupled

**Agilent Spectrum Analyzer - Sweep SA**

**Center Freq 15.075000 MHz**

Ref Offset 8.58 dB  
Ref 8.58 dBm

Mkr1 538 kHz  
-58.767 dBm

Start 150 kHz  
#Res BW 10 kHz  
#VBW 30 kHz\*

Stop 30.00 MHz  
Sweep 368.3 ms (1001 pts)

Frequency

Auto Tune

Center Freq 15.075000 MHz

Start Freq 150.000 kHz

Stop Freq 30.000000 MHz

CF Step 2.985000 MHz  
Man

Freq Offset 0 Hz

STATUS: DC Coupled

**Agilent Spectrum Analyzer - Sweep SA**

**Center Freq 13.015000000 GHz**

Ref Offset 7.98 dB  
Ref 30.00 dBm

Mkr2 25.740 GHz  
-30.718 dBm

Start 30 MHz  
#Res BW 1.0 MHz  
#VBW 3.0 MHz\*

Stop 26.00 GHz  
Sweep 64.93 ms (1001 pts)

Frequency

Auto Tune

Center Freq 13.015000000 GHz

Start Freq 30.000000 MHz

Stop Freq 26.000000000 GHz

CF Step 2.597000000 GHz  
Man

Freq Offset 0 Hz

STATUS: DC Coupled