

Appendix J: Test Data for E-UTRA Band 12

Product Name: KIDS WATCH

Test Model: BUBBLE

Environmental Conditions

Temperature:	23.7 °C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

J.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	22.24	21.43	PASS
		1	3	22.36	21.59	PASS
		1	5	22.26	21.50	PASS
		3	0	22.33	21.53	PASS
		3	2	22.44	21.54	PASS
		3	3	22.38	21.48	PASS
		6	0	22.28	21.42	PASS
	MCH	1	0	22.67	21.90	PASS
		1	3	22.82	22.08	PASS
		1	5	22.73	22.01	PASS
		3	0	22.77	21.68	PASS
		3	2	22.76	21.73	PASS
		3	3	22.84	21.73	PASS
		6	0	22.63	21.85	PASS
	HCH	1	0	23.06	22.04	PASS
		1	3	23.10	22.19	PASS
		1	5	22.90	22.07	PASS
		3	0	23.10	22.04	PASS
		3	2	23.12	21.97	PASS
		3	3	23.04	22.06	PASS
		6	0	23.02	22.01	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	O11set			
QPSK / 16QAM	LCH	1	0	23.02	22.27	PASS
		1	7	23.37	22.47	PASS
		1	14	23.21	22.45	PASS
		8	0	22.17	21.17	PASS
		8	4	22.33	21.30	PASS
		8	7	22.28	21.36	PASS
		15	0	23.08	22.26	PASS
	MCH	1	0	23.34	22.46	PASS
		1	7	23.67	22.89	PASS
		1	14	23.46	22.71	PASS
		8	0	22.53	21.57	PASS
		8	4	22.53	21.61	PASS
		8	7	22.55	21.54	PASS
		15	0	23.32	22.46	PASS
	HCH	1	0	23.71	22.90	PASS
		1	7	23.68	22.71	PASS
		1	14	23.59	22.64	PASS
		8	0	22.80	21.71	PASS
		8	4	22.94	21.82	PASS
		8	7	22.78	21.65	PASS
		15	0	23.76	22.92	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	23.02	22.32	PASS
		1	12	23.42	22.82	PASS
		1	24	23.23	22.47	PASS
		12	0	22.95	22.24	PASS
		12	6	22.28	21.51	PASS
		12	13	22.50	21.71	PASS
		25	0	22.98	22.39	PASS
	MCH	1	0	23.33	22.56	PASS
		1	12	23.65	22.84	PASS
		1	24	23.42	22.79	PASS
		12	0	22.74	21.84	PASS
		12	6	22.57	21.70	PASS
		12	13	22.45	21.58	PASS
		25	0	23.28	22.49	PASS
	HCH	1	0	23.50	22.45	PASS
		1	12	23.61	22.31	PASS
		1	24	23.76	22.53	PASS
		12	0	22.43	21.51	PASS
		12	6	22.66	21.70	PASS
		12	13	22.55	21.66	PASS
		25	0	23.54	22.45	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	22.95	22.31	PASS
		1	24	23.42	22.68	PASS
		1	49	23.50	22.73	PASS
		25	0	22.98	21.96	PASS
		25	12	22.41	21.32	PASS
		25	25	22.18	21.16	PASS
		50	0	22.97	22.38	PASS
	MCH	1	0	23.17	22.44	PASS
		1	24	23.60	22.78	PASS
		1	49	23.55	22.74	PASS
		25	0	22.69	21.63	PASS
		25	12	22.59	21.57	PASS
		25	25	22.62	21.63	PASS
		50	0	23.24	22.44	PASS
	HCH	1	0	23.28	22.60	PASS
		1	24	23.78	22.93	PASS
		1	49	23.72	22.81	PASS
		25	0	22.84	21.78	PASS
		25	12	22.70	21.74	PASS
		25	25	23.02	21.84	PASS
		50	0	23.27	22.58	PASS

J.2 Peak-to-Average Ratio

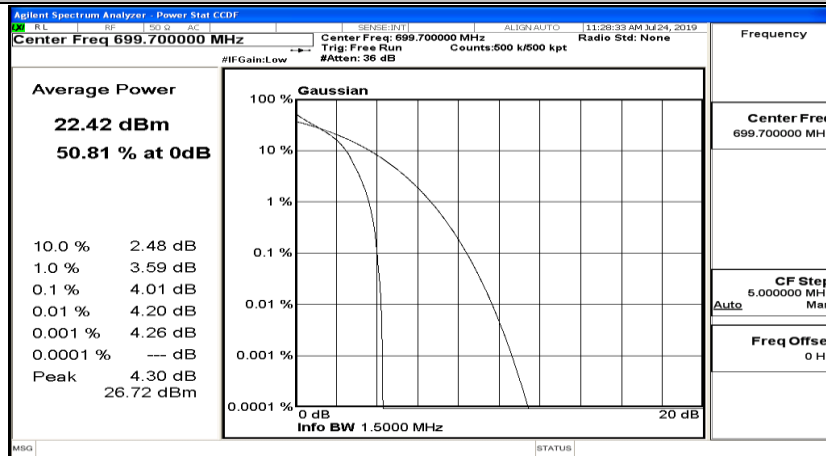
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.01	<13	PASS
	MCH	3.68	<13	PASS
	HCH	2.83	<13	PASS
16QAM	LCH	5.31	<13	PASS
	MCH	4.72	<13	PASS
	HCH	3.81	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.28	<13	PASS
	MCH	3.53	<13	PASS
	HCH	2.94	<13	PASS
16QAM	LCH	5.13	<13	PASS
	MCH	4.39	<13	PASS
	HCH	3.99	<13	PASS

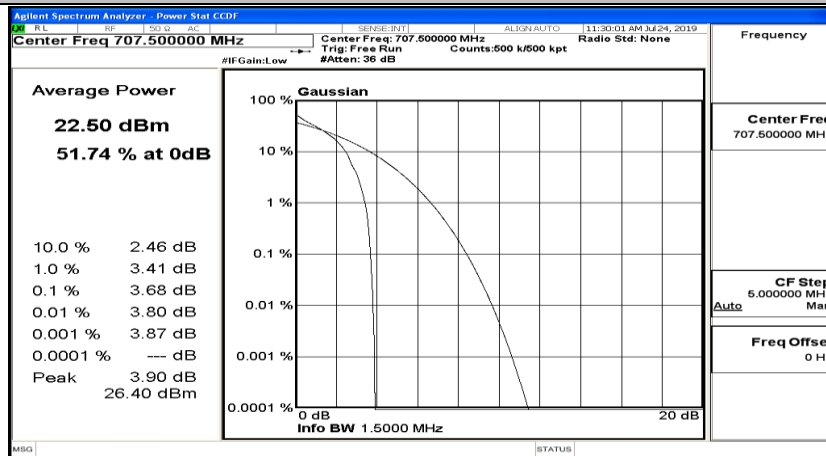
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.23	<13	PASS
	MCH	3.75	<13	PASS
	HCH	3.85	<13	PASS
16QAM	LCH	5.23	<13	PASS
	MCH	4.3	<13	PASS
	HCH	4.82	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.33	<13	PASS
	MCH	3.61	<13	PASS
	HCH	3.63	<13	PASS
16QAM	LCH	5.19	<13	PASS
	MCH	4.5	<13	PASS
	HCH	4.58	<13	PASS

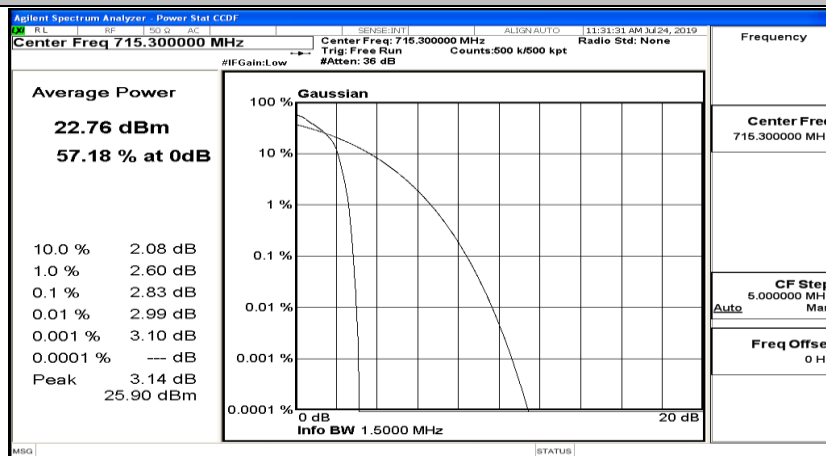
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



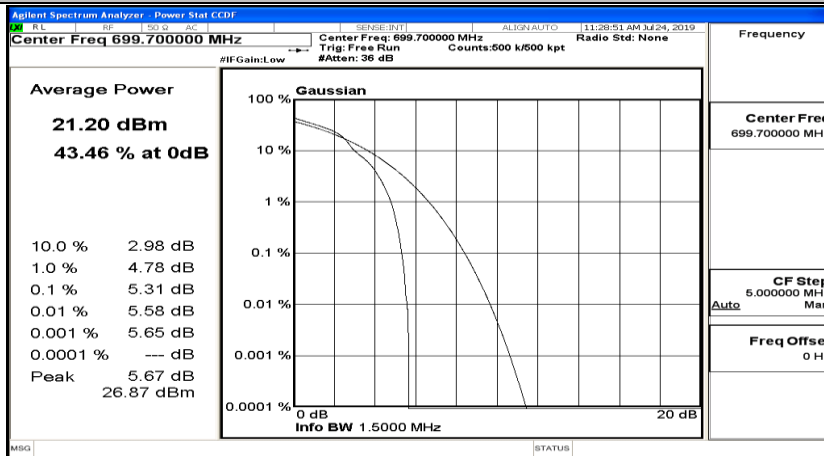
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



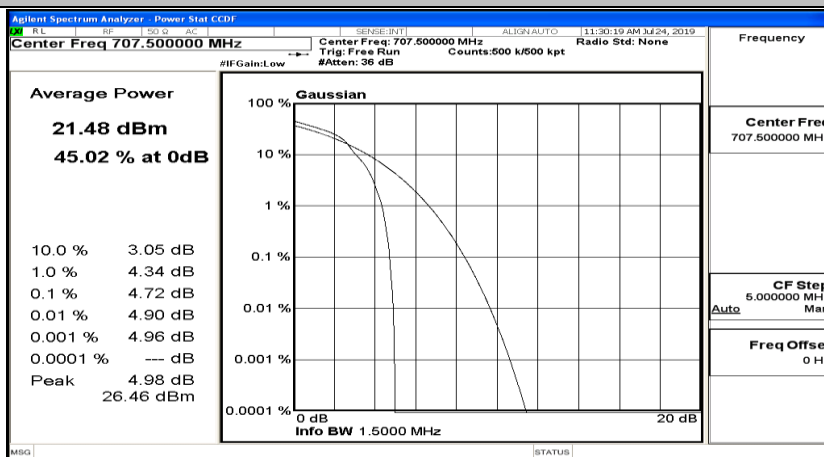
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



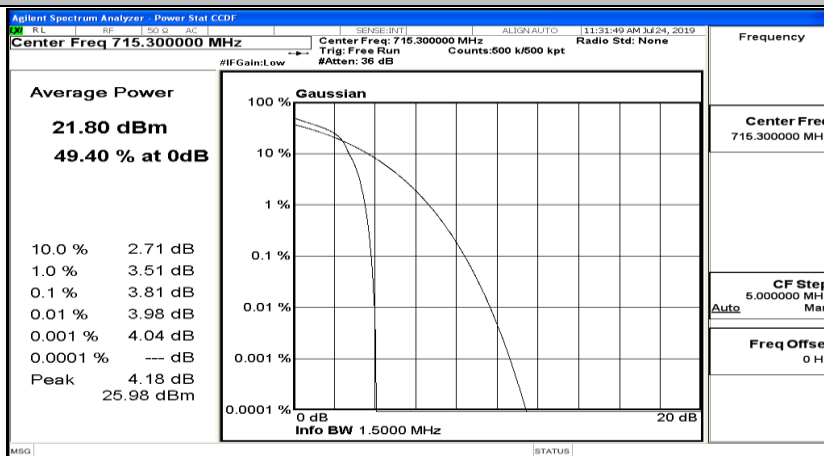
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



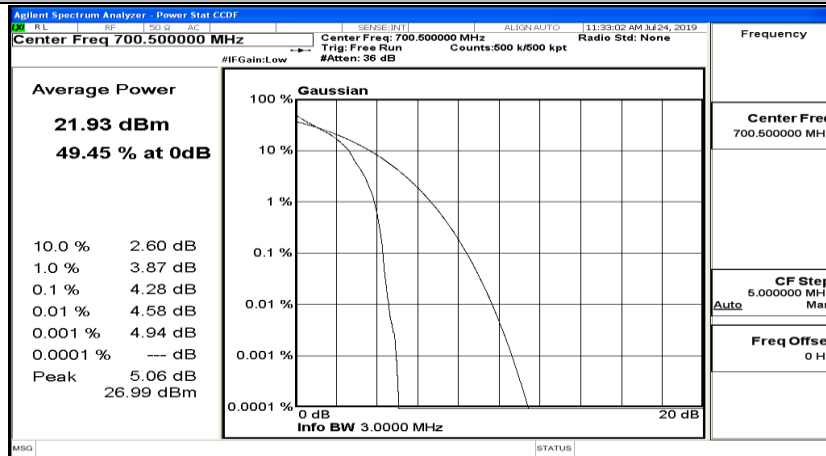
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



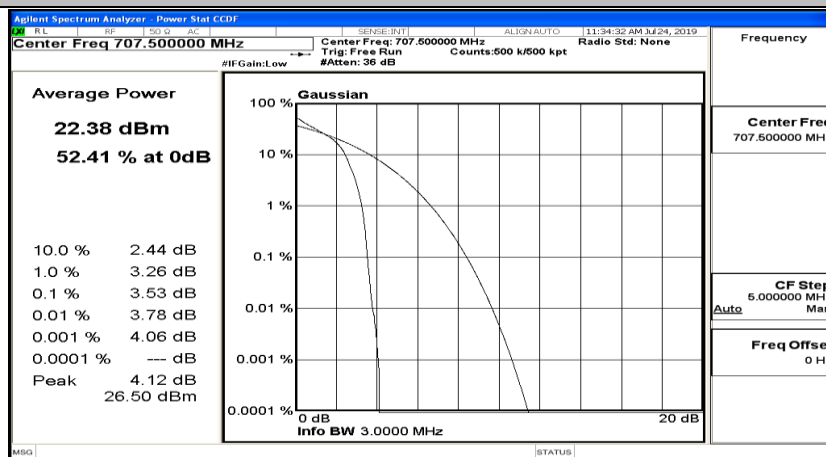
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



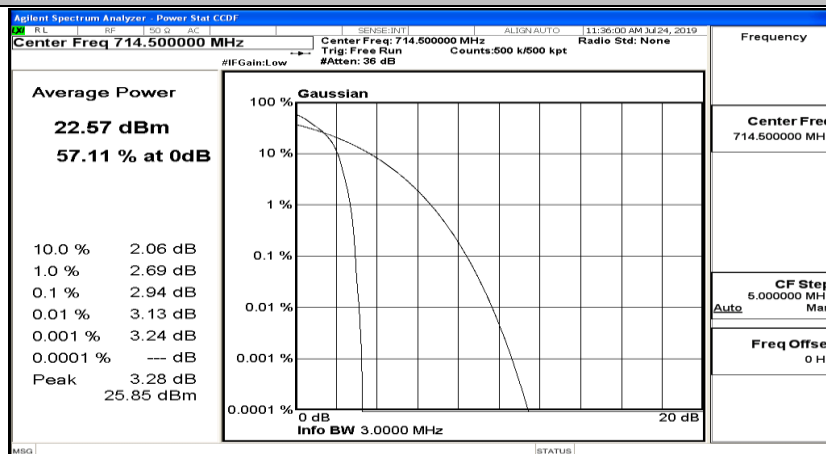
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



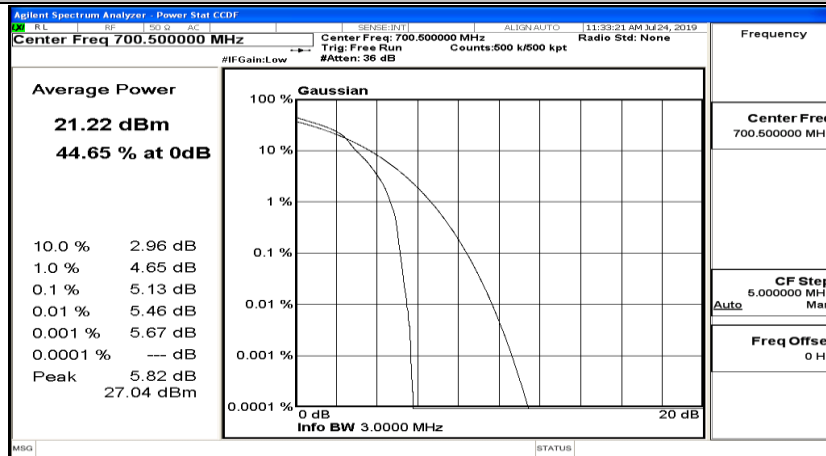
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



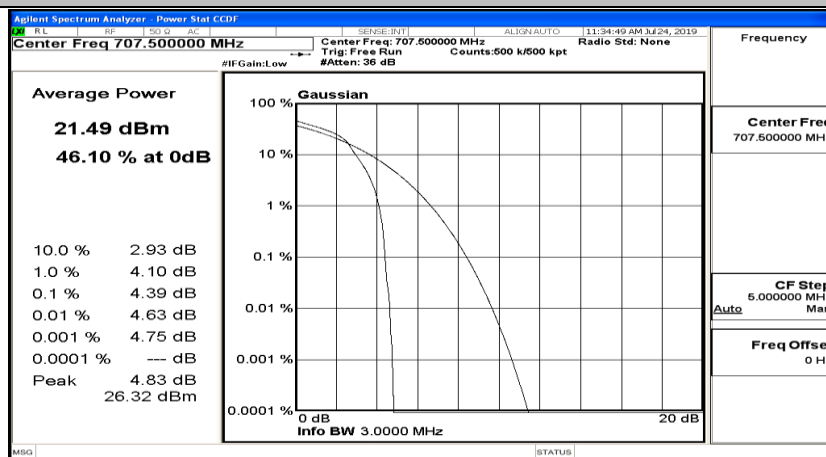
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



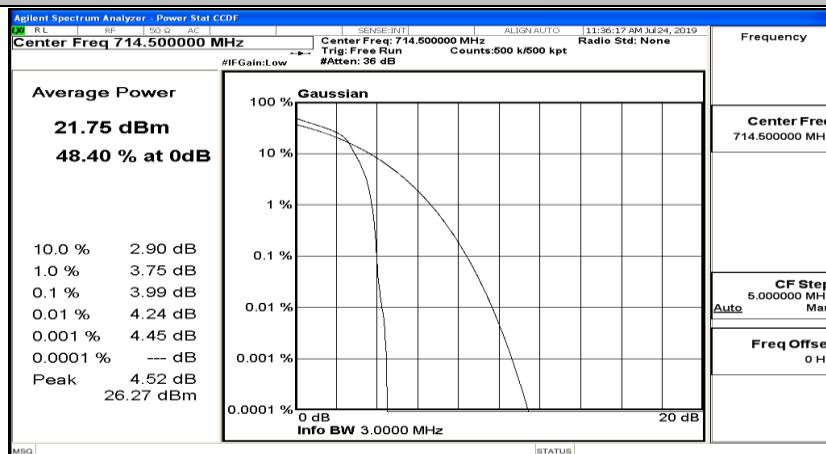
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



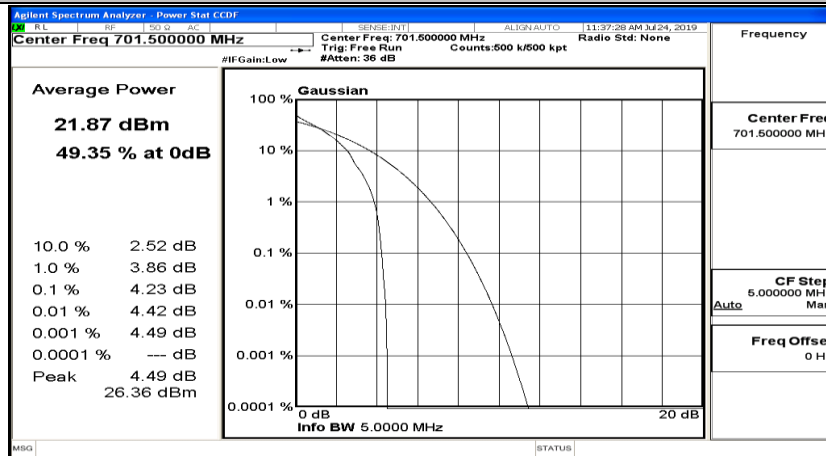
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



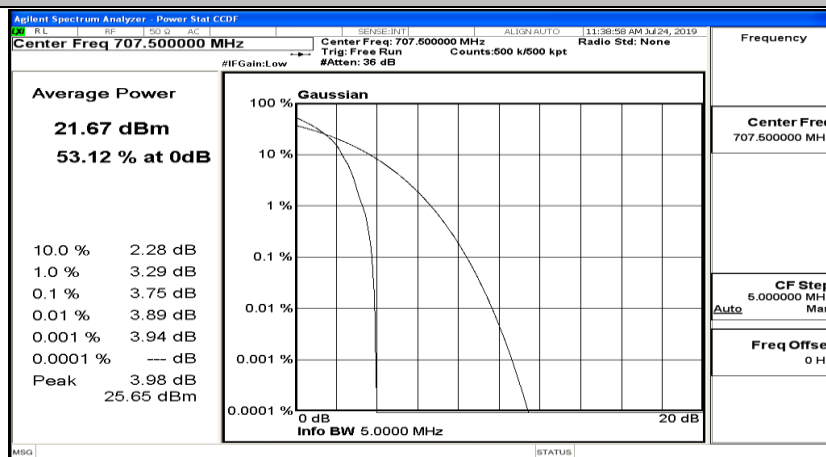
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



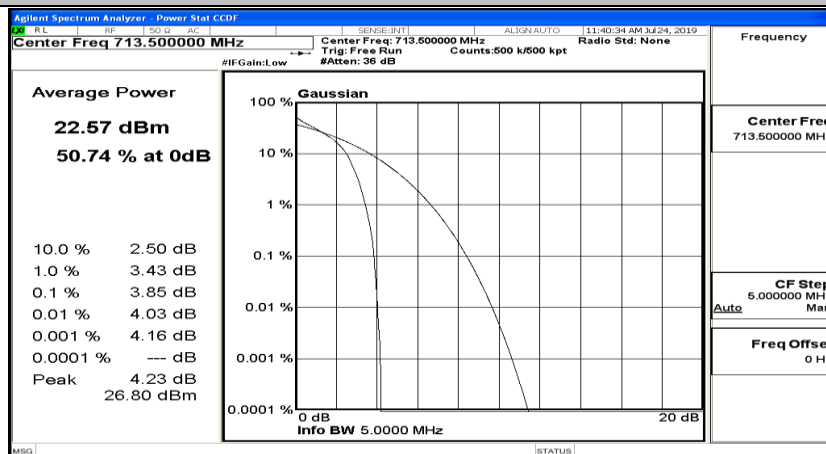
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



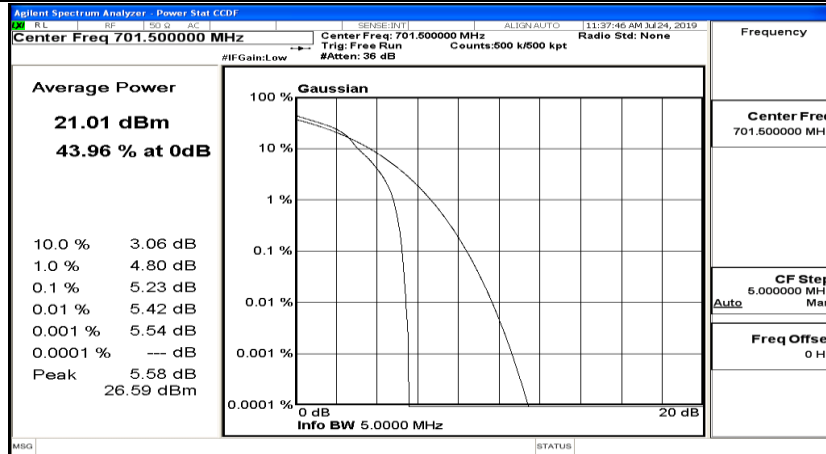
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



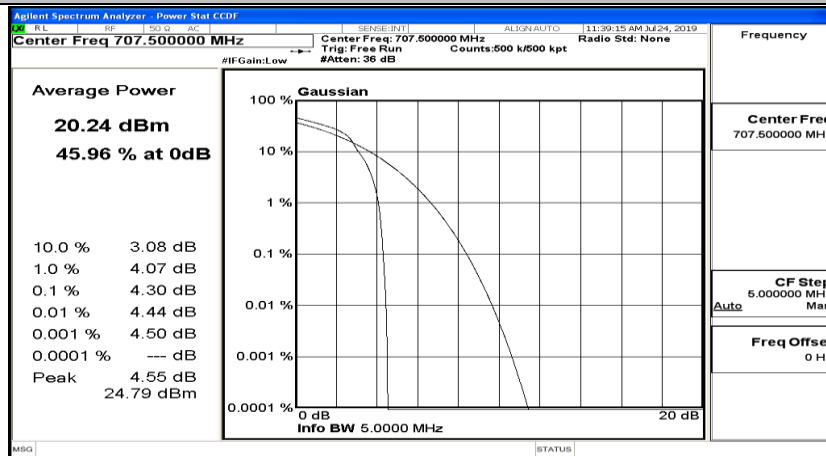
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



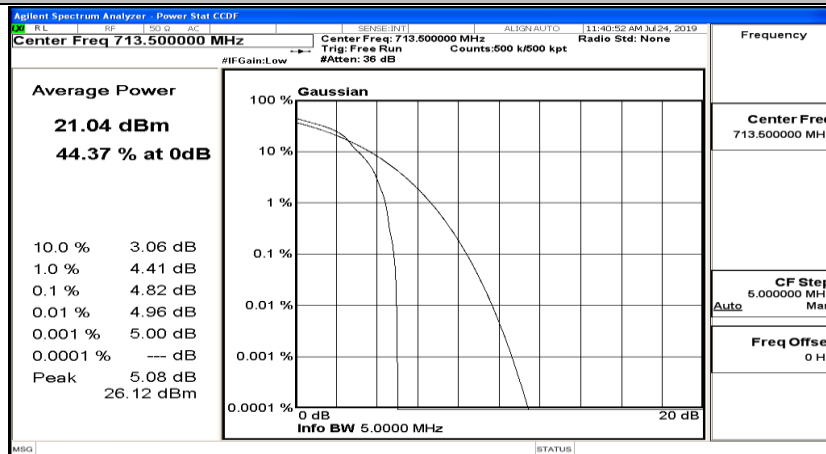
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



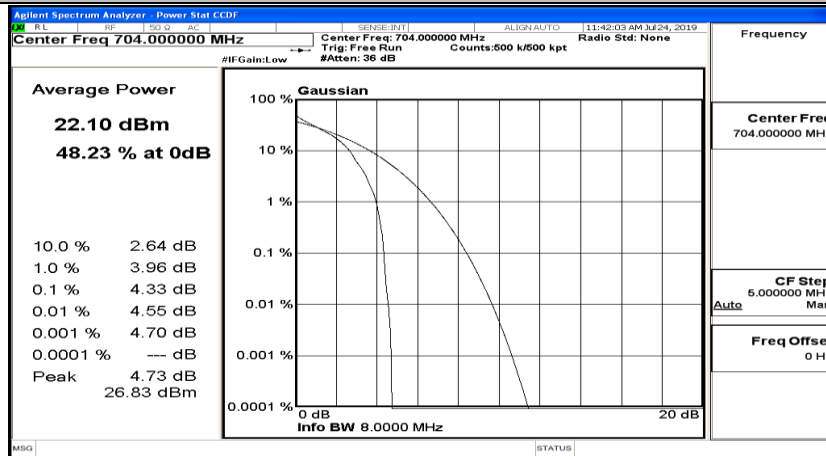
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



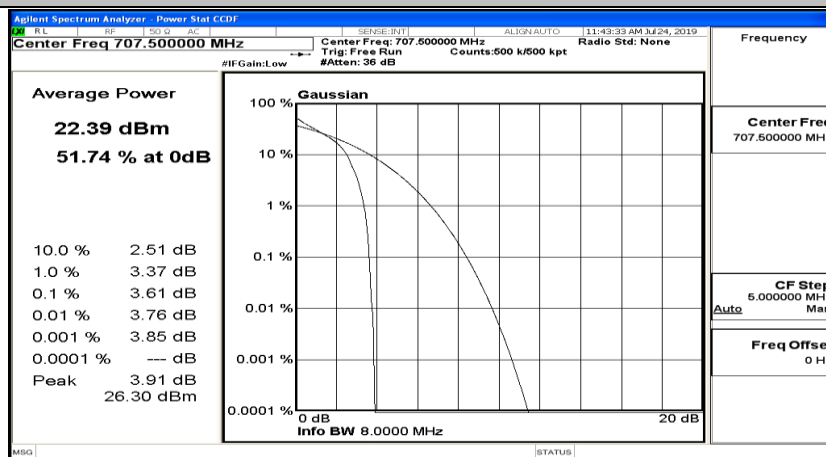
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



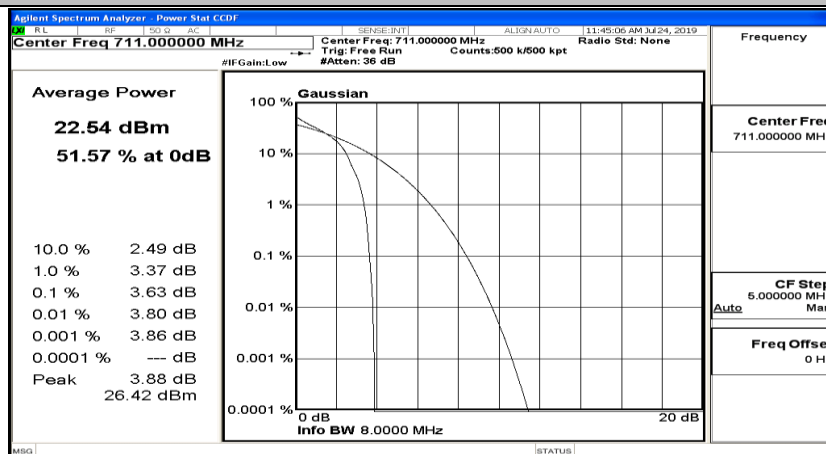
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



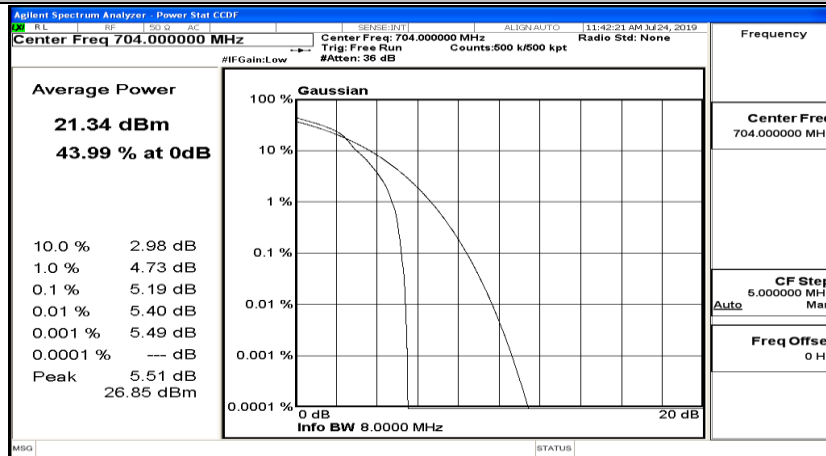
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



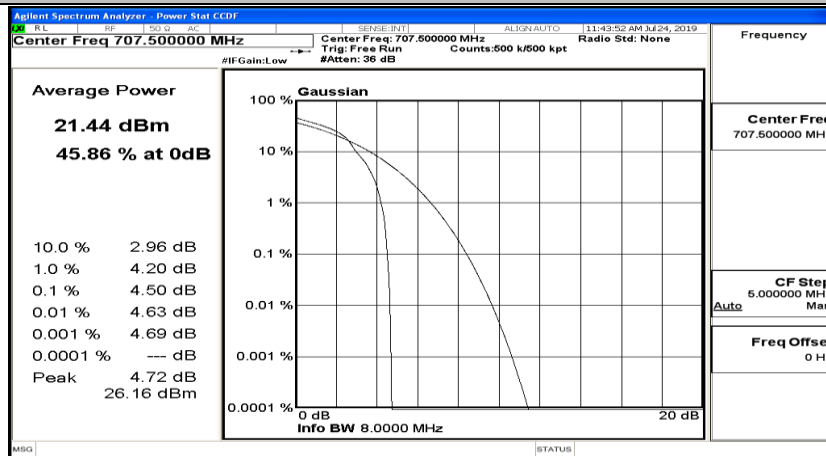
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



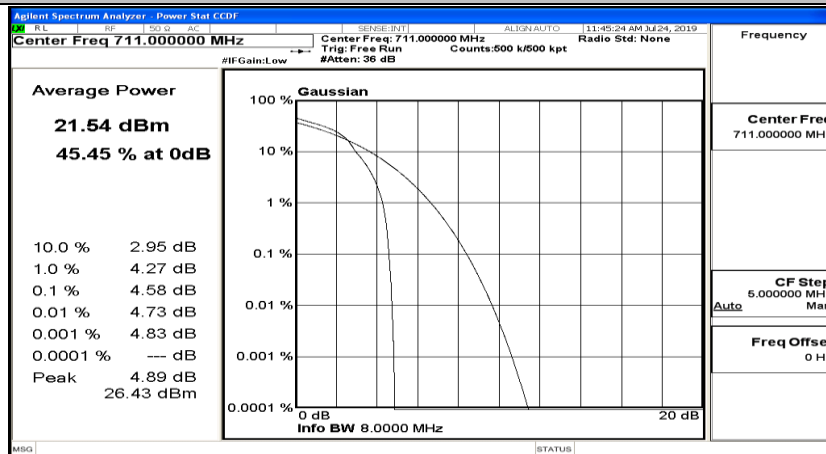
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



J.3 26dB Bandwidth and Occupied Bandwidth

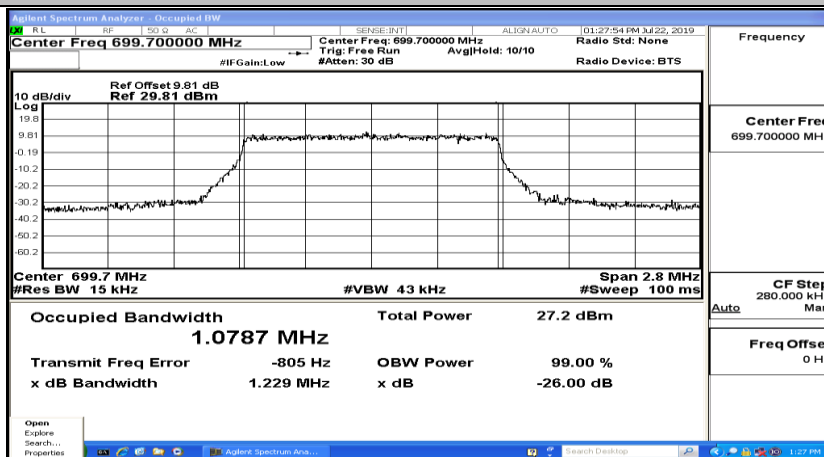
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0787	1.229	PASS
	MCH	1.0756	1.227	PASS
	HCH	1.0763	1.226	PASS
16QAM	LCH	1.0781	1.224	PASS
	MCH	1.0774	1.230	PASS
	HCH	1.0779	1.223	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6808	2.822	PASS
	MCH	2.6790	2.814	PASS
	HCH	2.6763	2.827	PASS
16QAM	LCH	2.6781	2.804	PASS
	MCH	2.6822	2.849	PASS
	HCH	2.6818	2.823	PASS

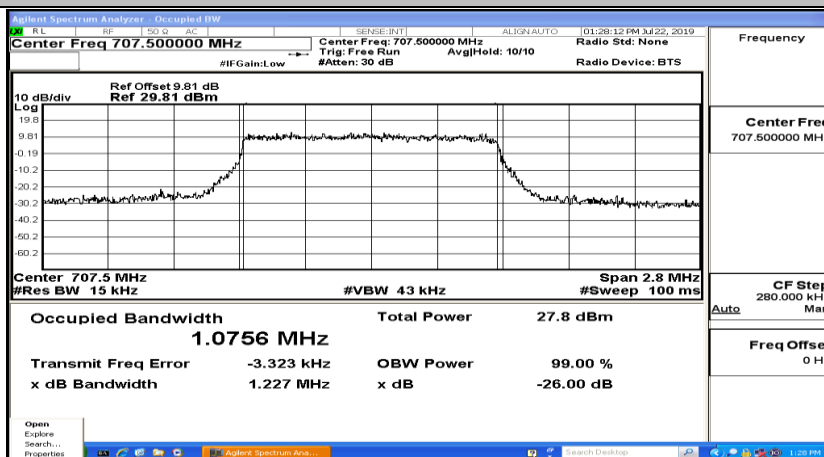
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4748	4.856	PASS
	MCH	4.4834	4.907	PASS
	HCH	4.4615	4.782	PASS
16QAM	LCH	4.4772	4.815	PASS
	MCH	4.4712	4.912	PASS
	HCH	4.4728	4.850	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.8912	9.376	PASS
	MCH	8.9560	9.468	PASS
	HCH	8.9454	9.573	PASS
16QAM	LCH	8.8683	9.325	PASS
	MCH	8.9562	9.572	PASS
	HCH	8.9672	9.525	PASS

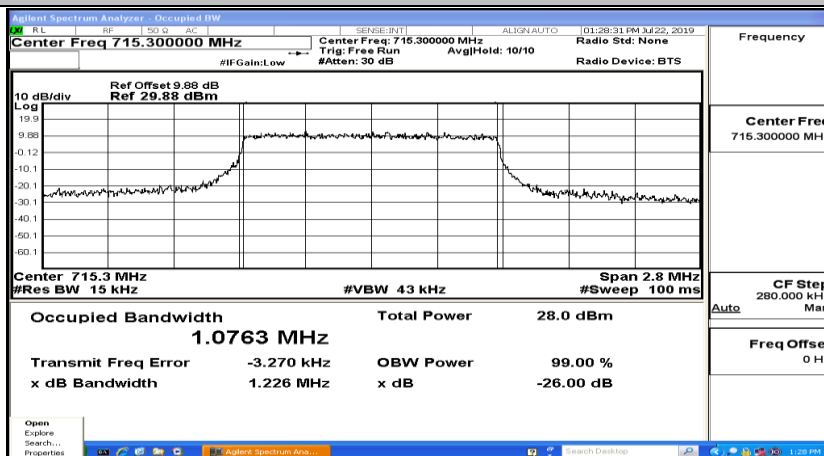
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



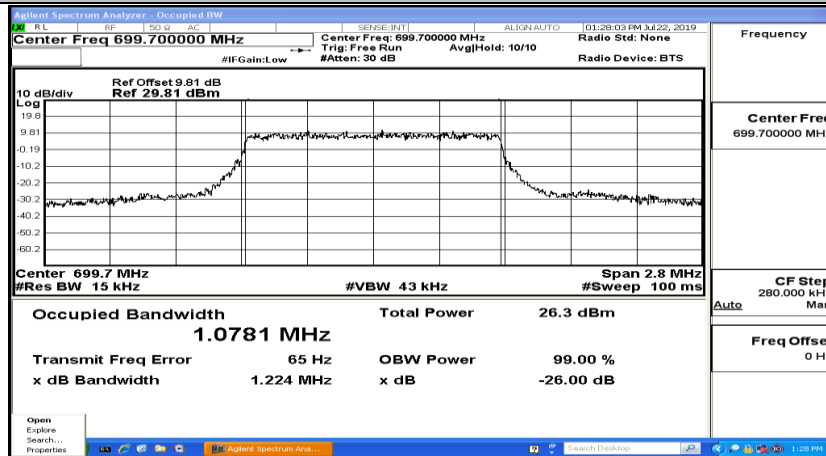
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



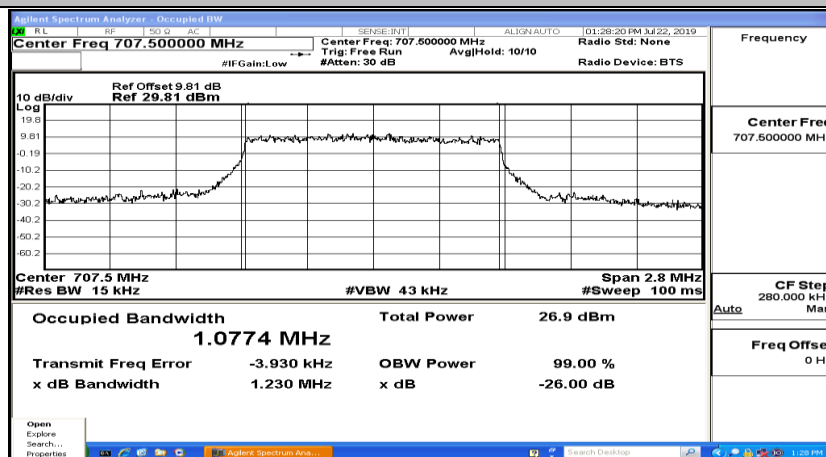
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



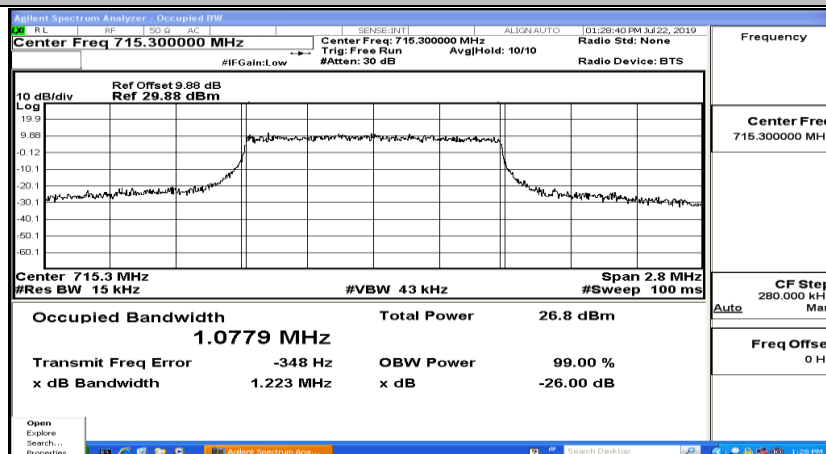
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



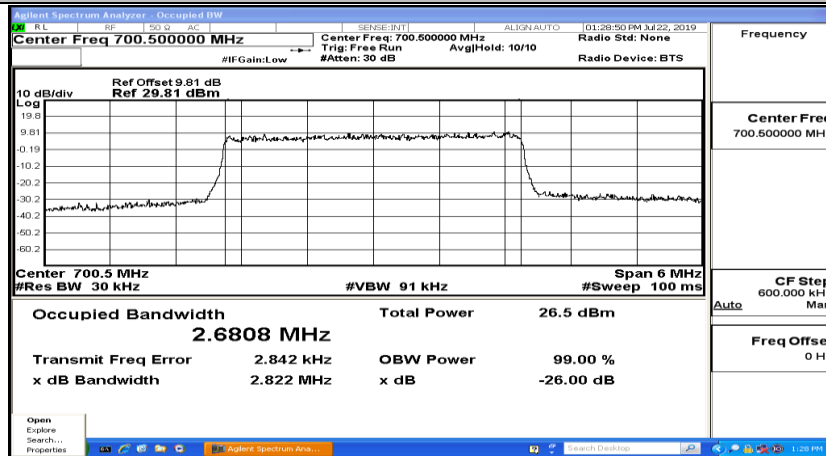
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



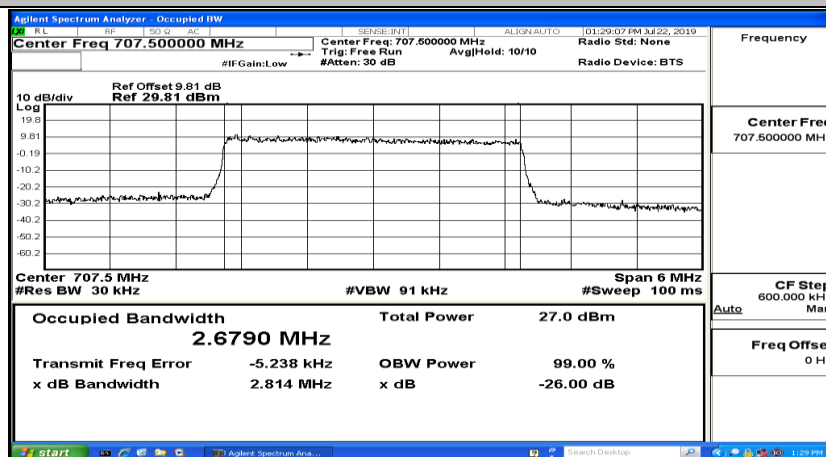
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



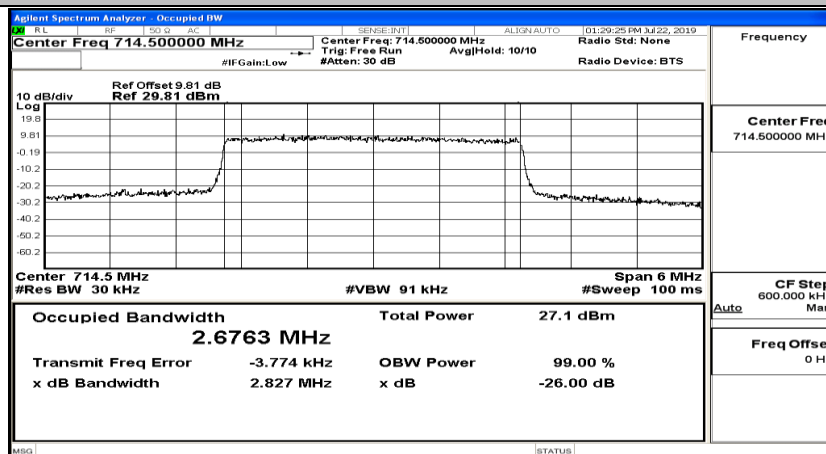
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



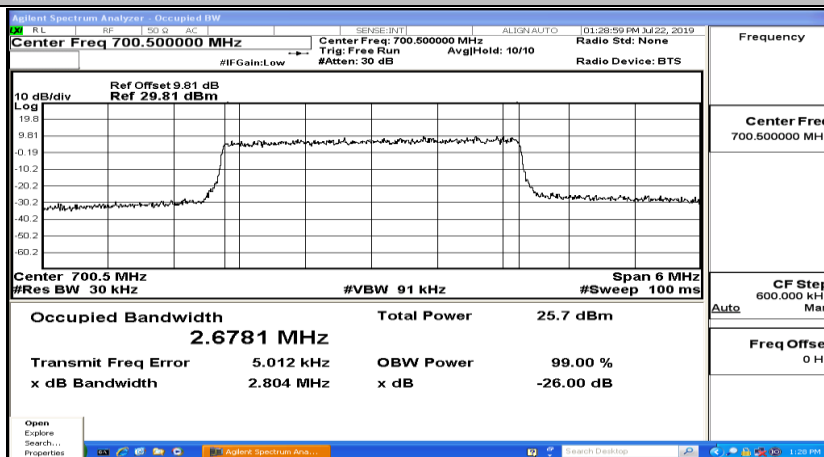
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



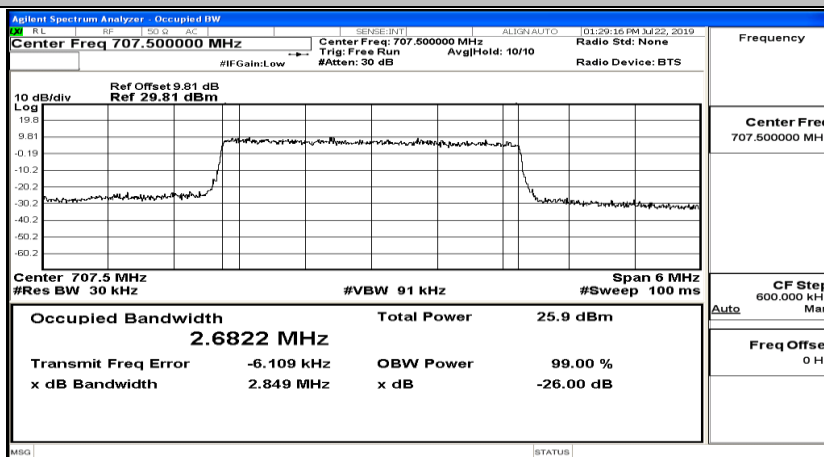
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



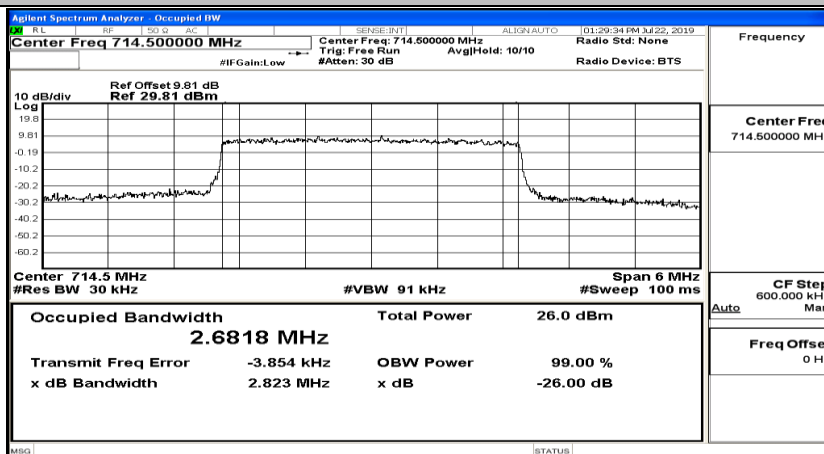
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



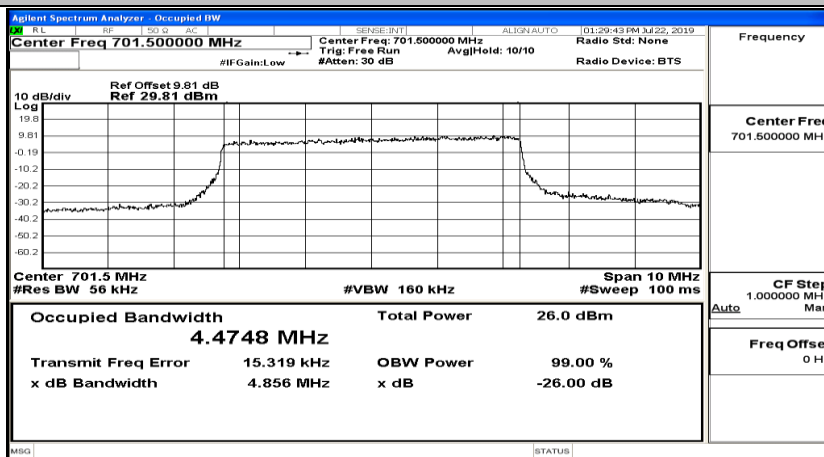
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



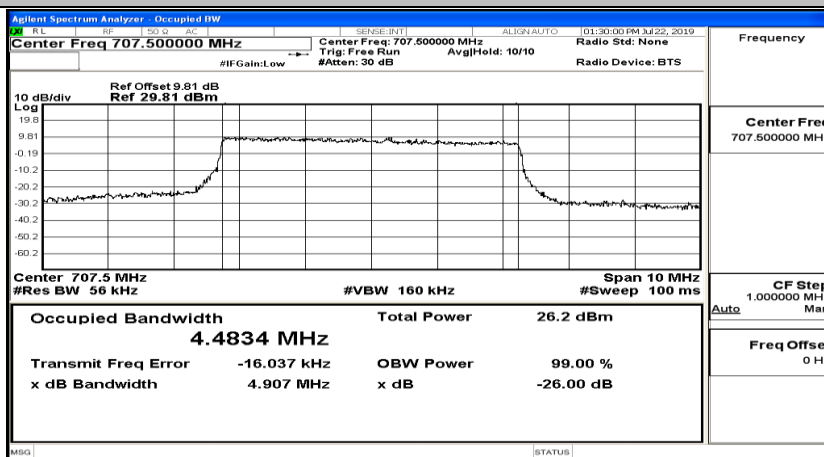
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



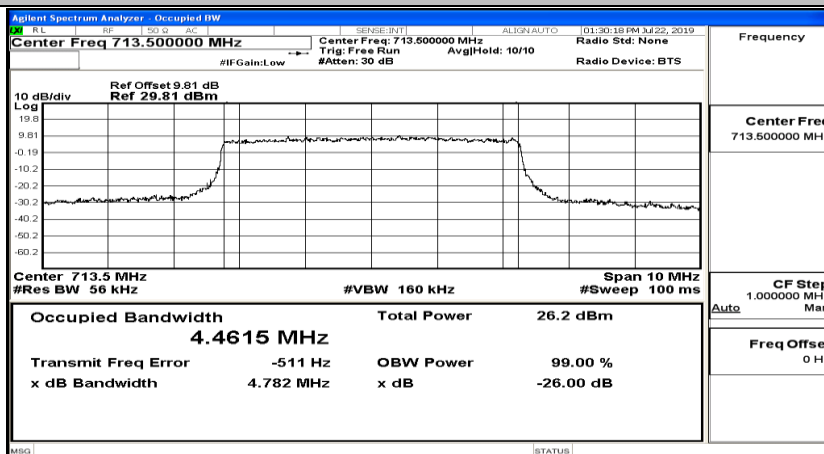
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



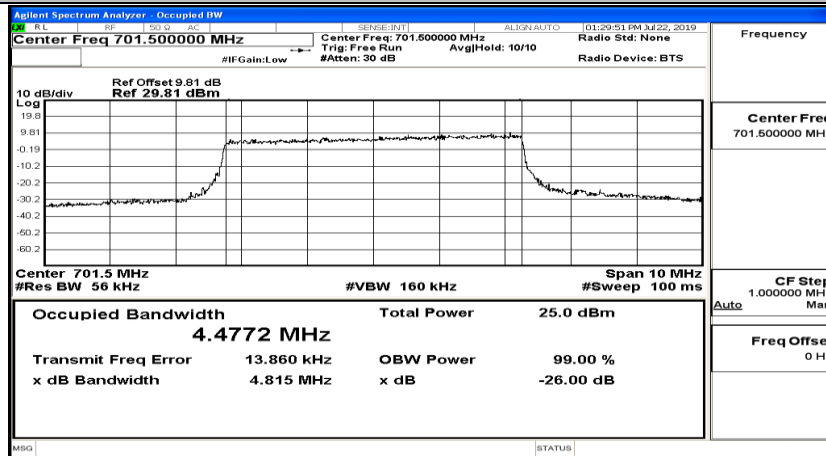
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



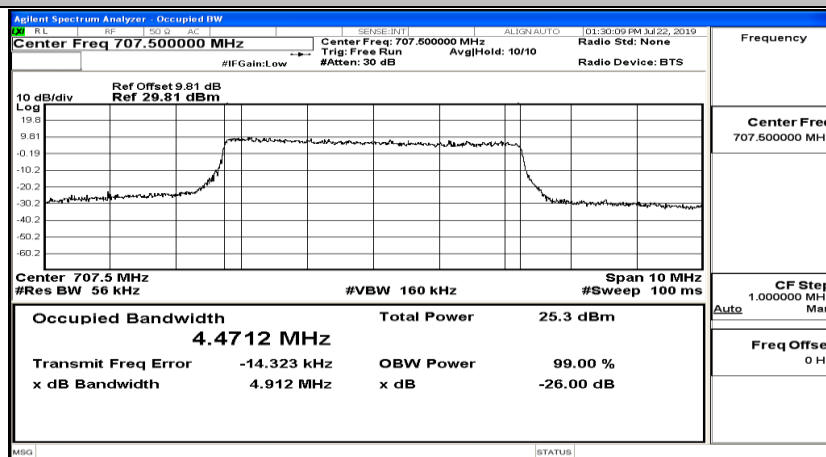
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



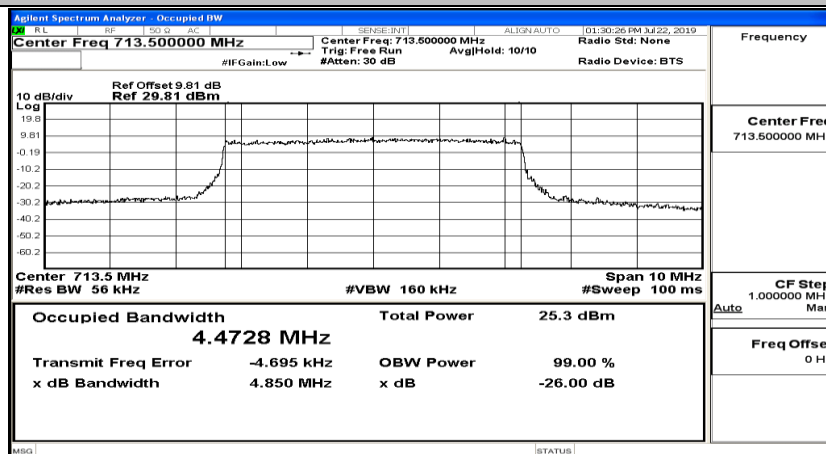
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



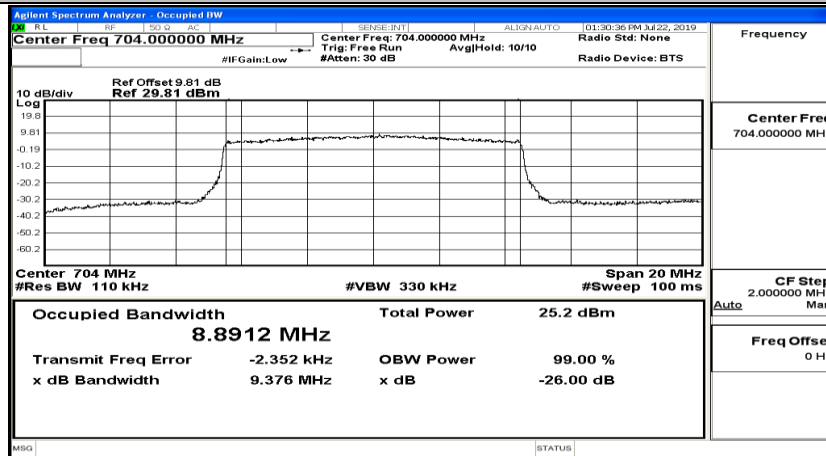
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



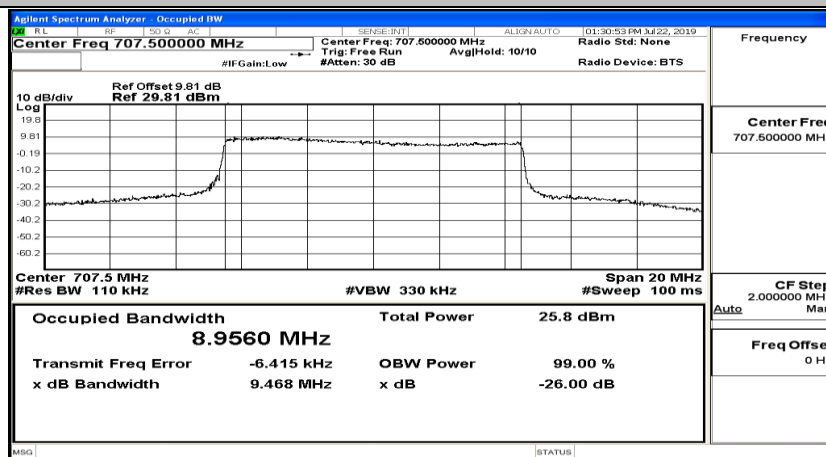
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



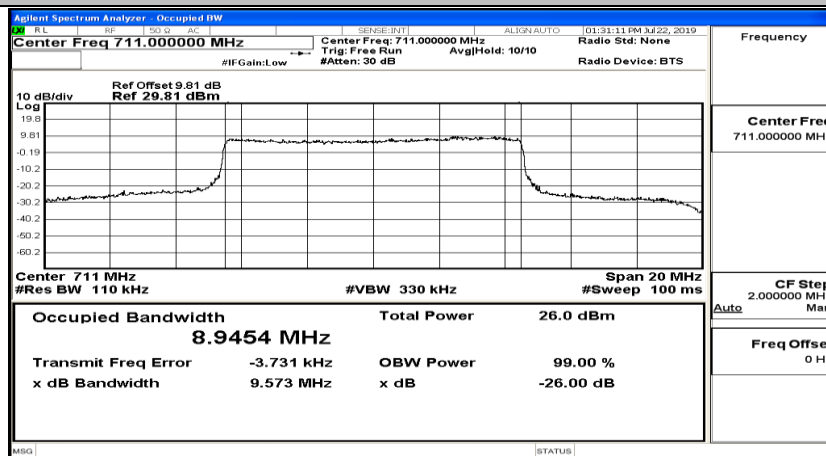
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



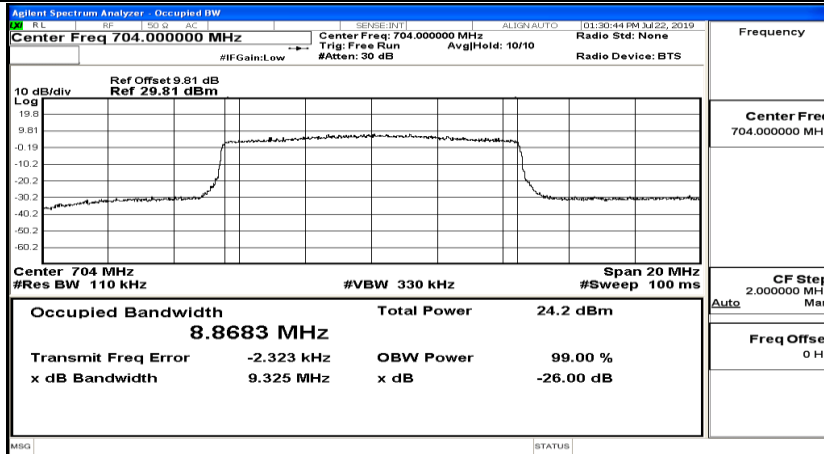
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



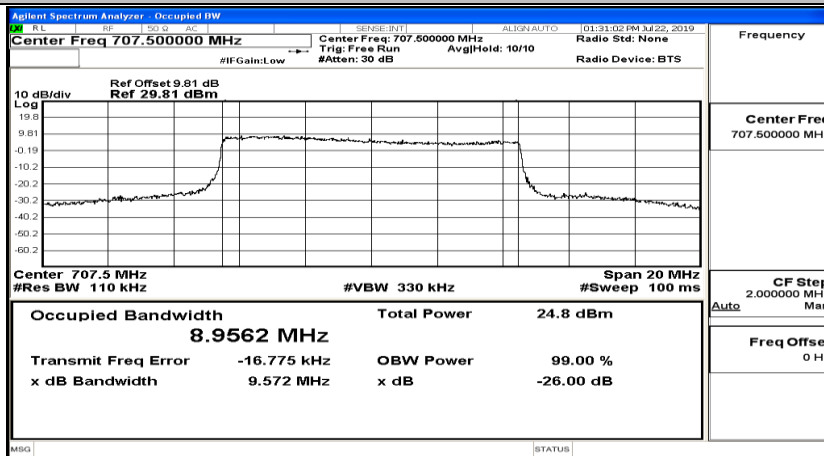
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



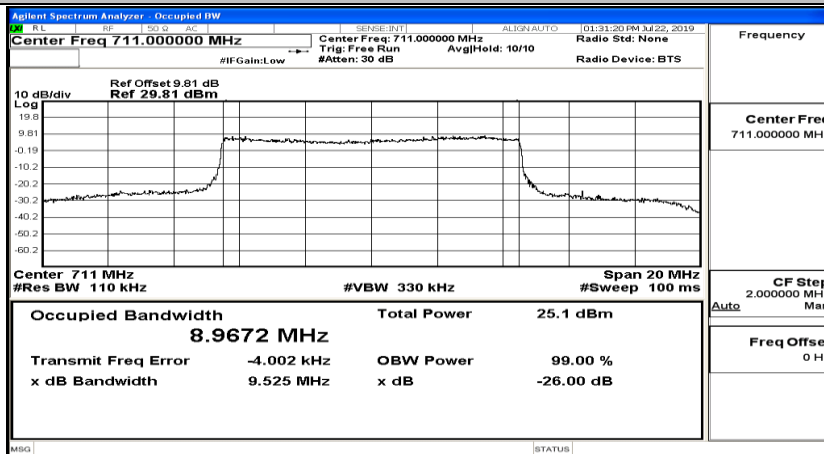
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

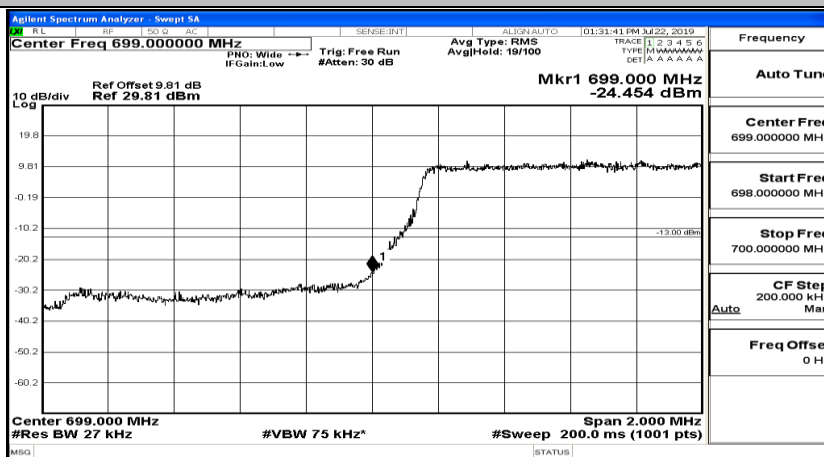


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

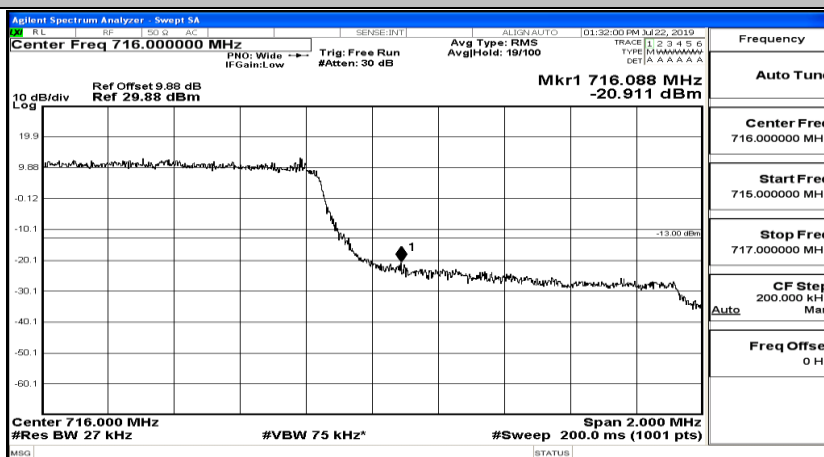


J.4 Band Edge

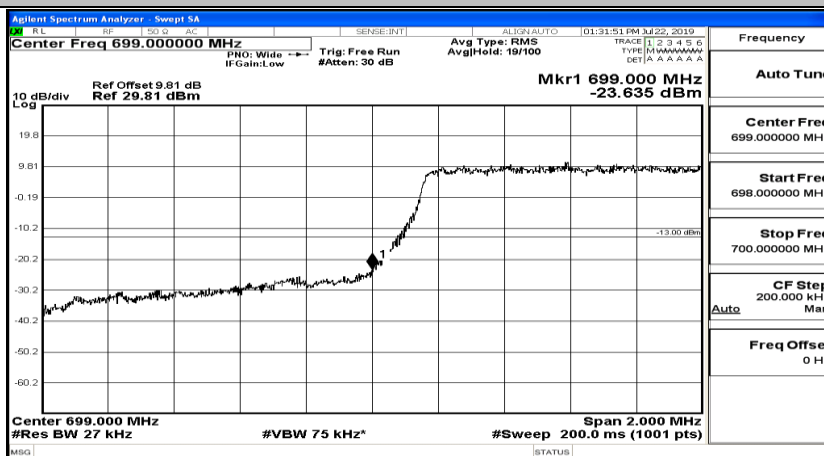
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



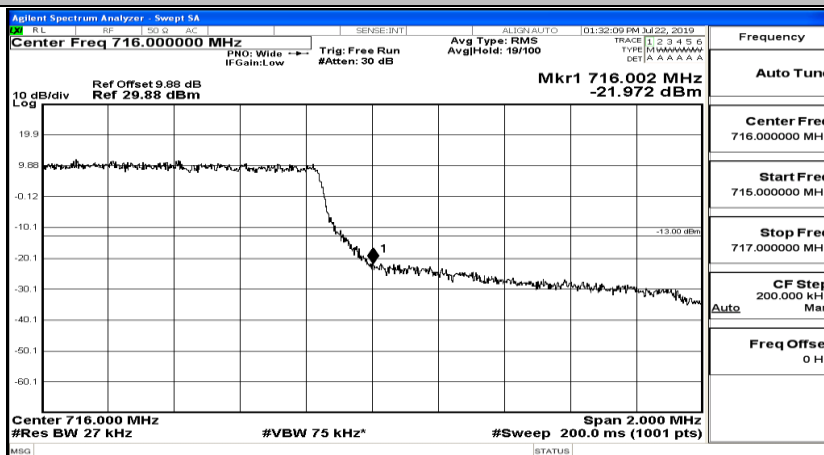
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



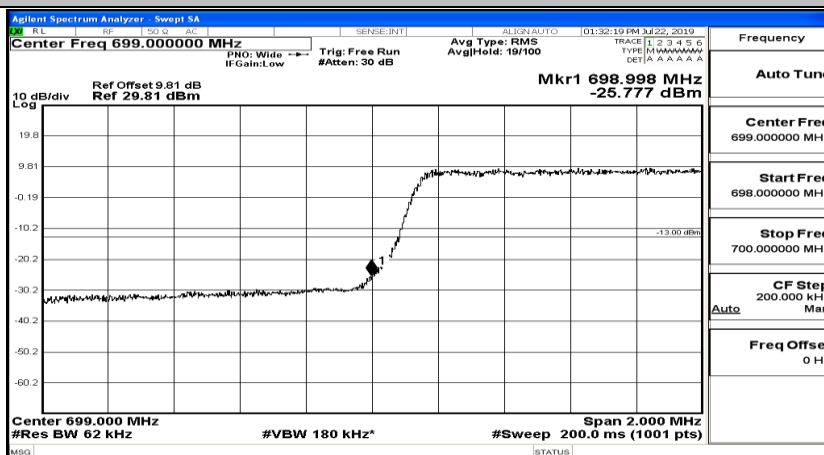
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



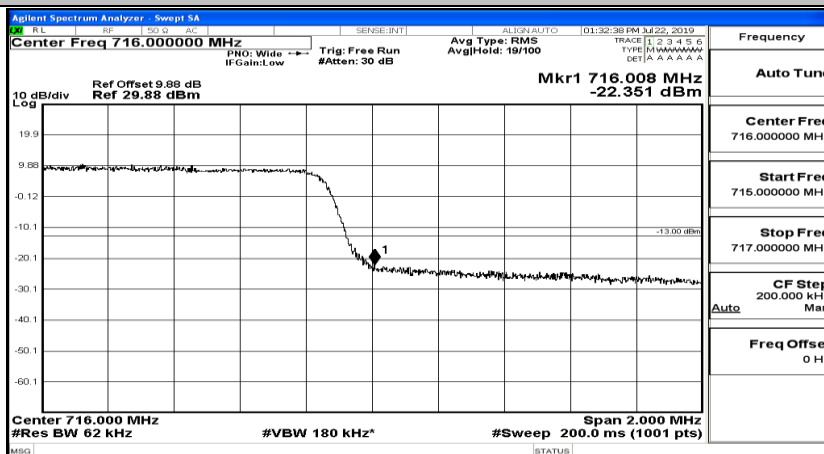
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



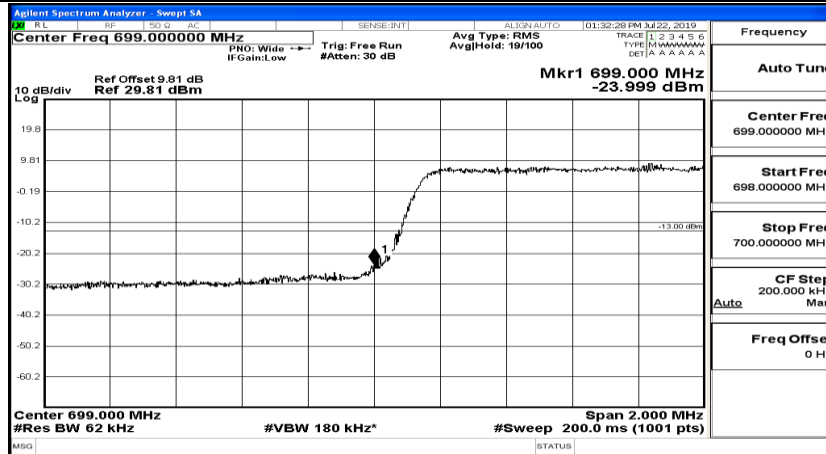
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



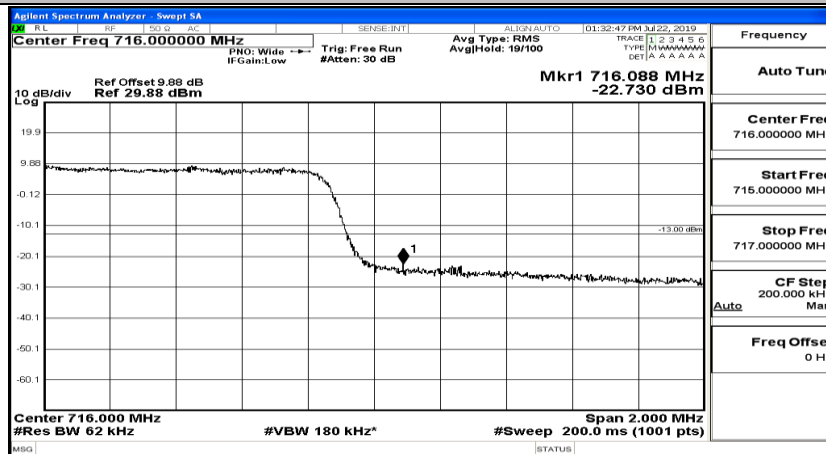
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



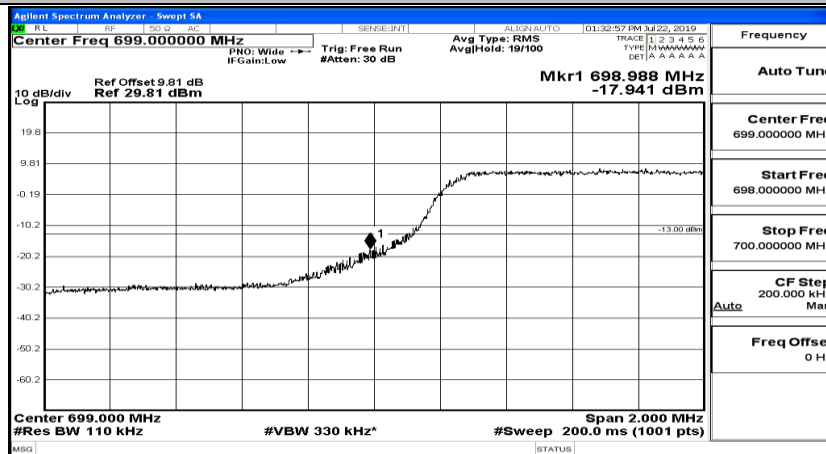
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



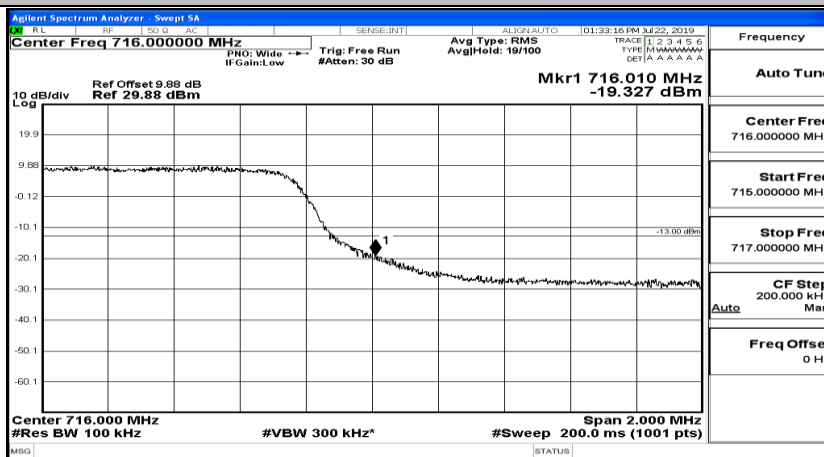
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



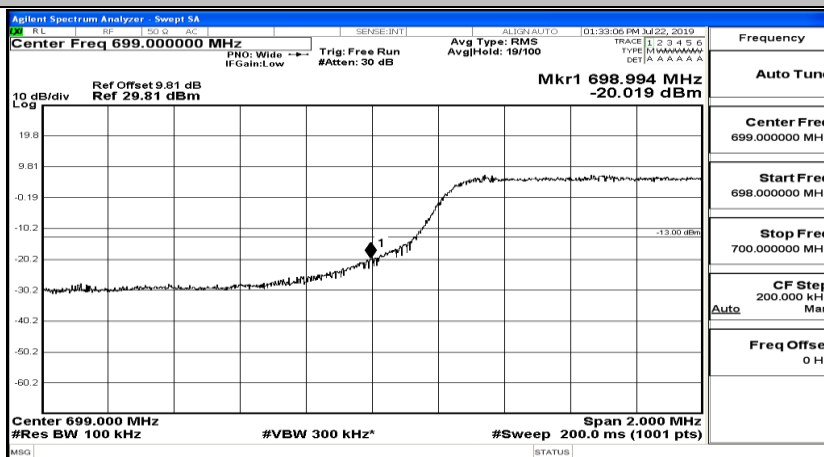
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



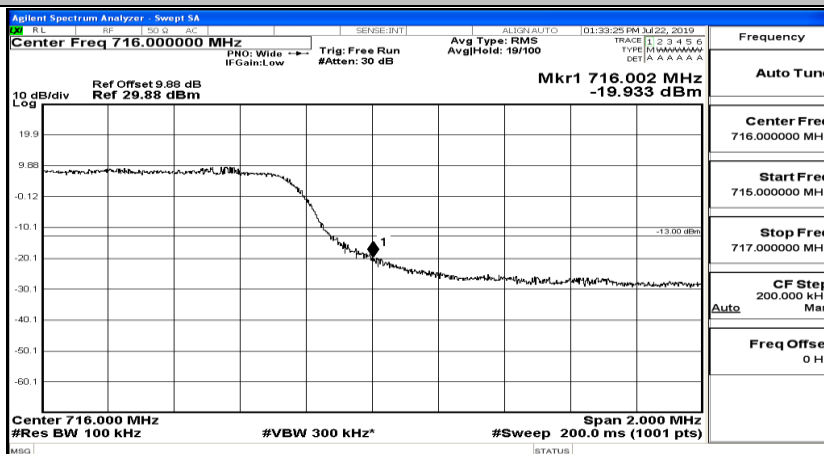
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



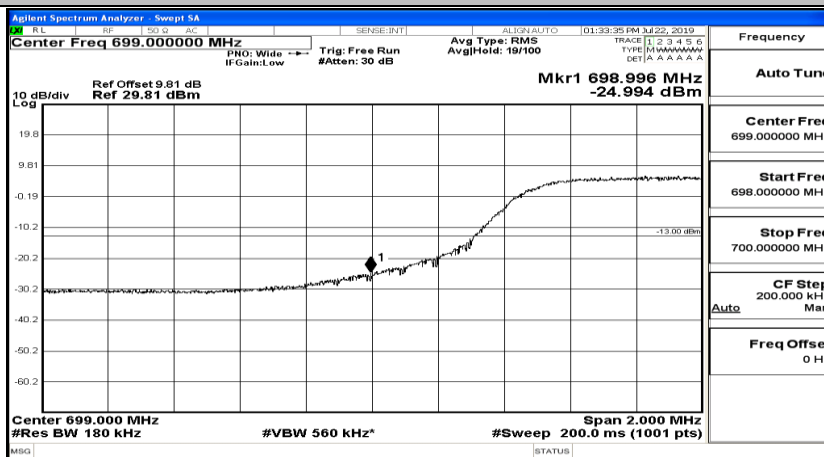
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



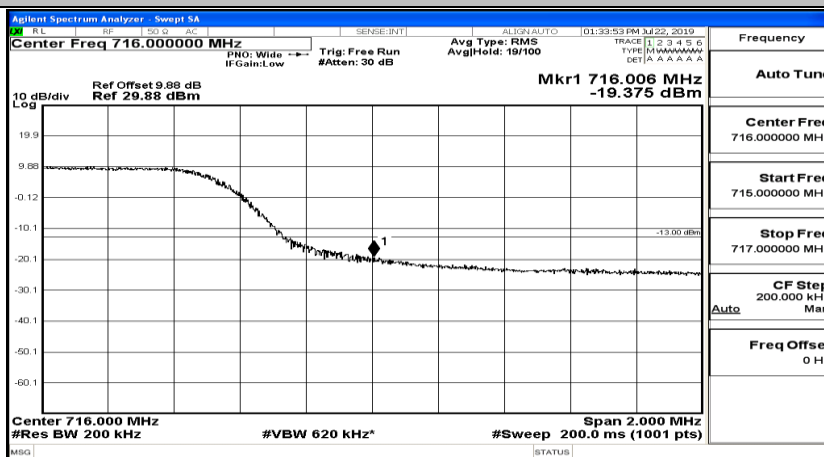
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



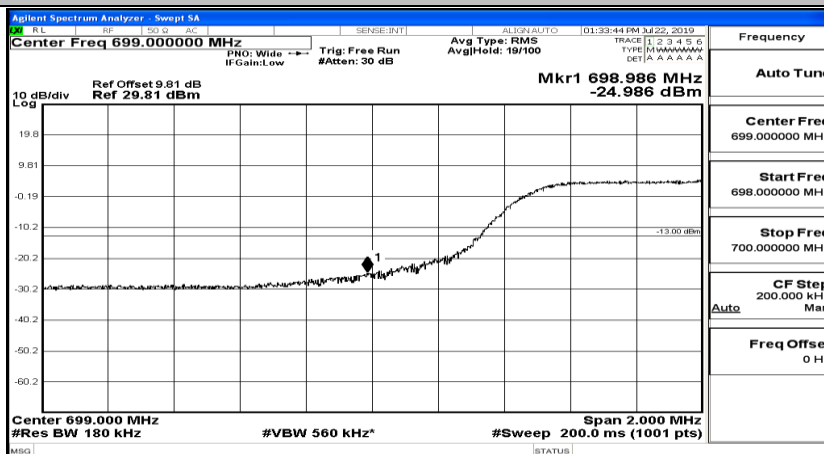
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



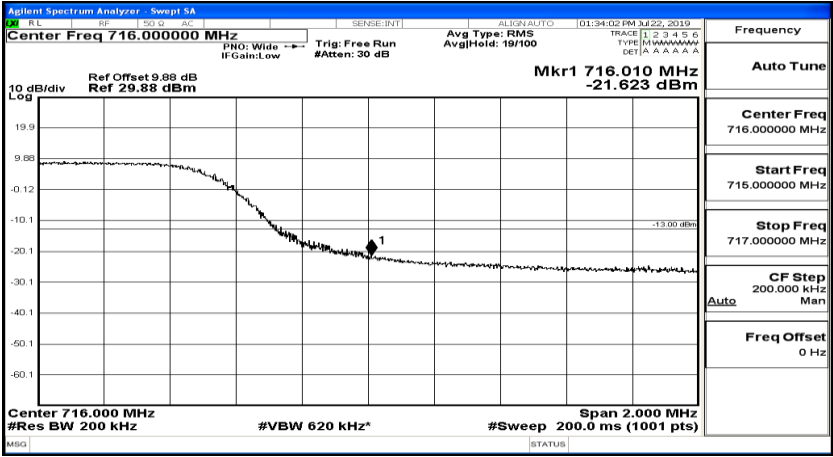
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

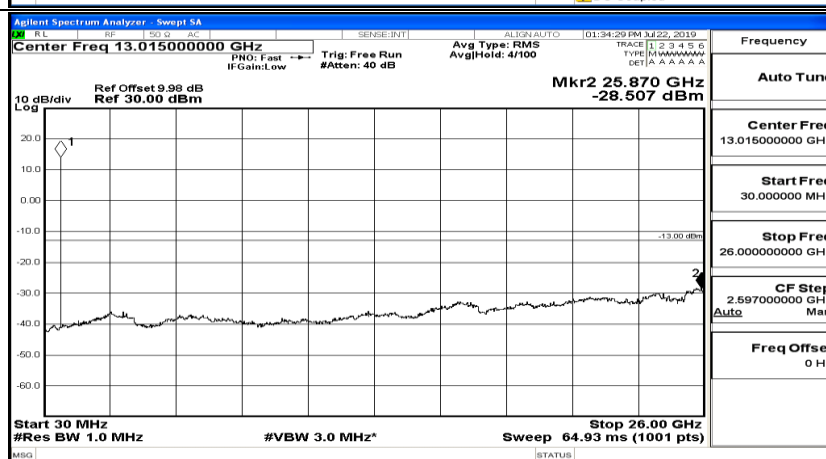
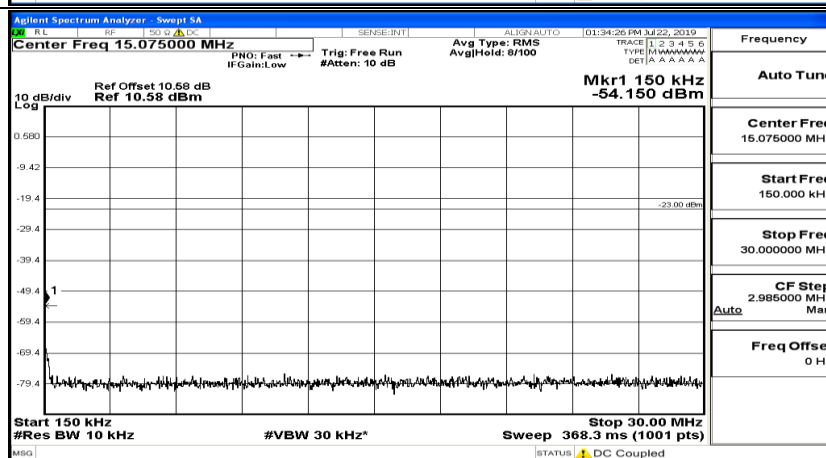
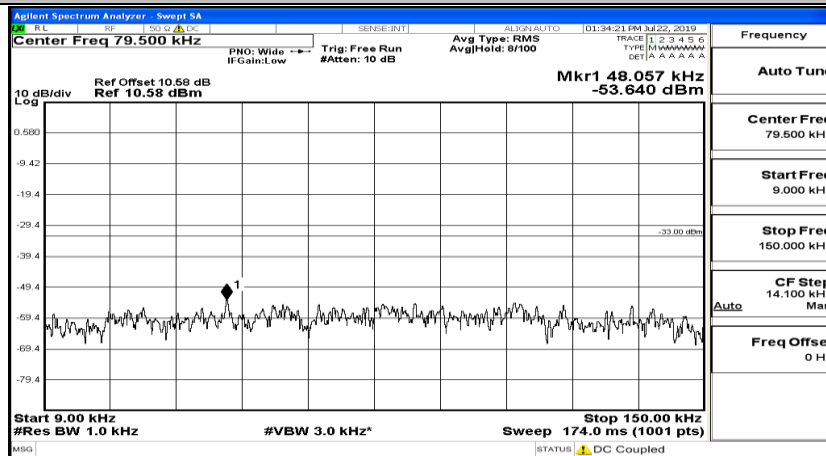


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



J.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

