Appendix A: Test Data for E-UTRA Band 2

Product Name: Personal Mobile Alarm System

Trade Mark: N/A

Test Model: EV-07BX-LTE

Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Alisa Huang
Supervised by:	Wang.Chuang

A.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	22.48	21.74	PASS
		1	3	22.63	21.95	PASS
		1	5	22.52	21.83	PASS
		3	0	22.51	21.70	PASS
		3	2	22.59	21.75	PASS
		3	3	22.52	21.76	PASS
		6	0	21.62	20.59	PASS
	MCH	1	0	21.72	21.07	PASS
		1	3	21.85	21.21	PASS
		1	5	21.78	21.11	PASS
		3	0	21.81	20.77	PASS
		3	2	21.81	20.85	PASS
		3	3	21.82	20.83	PASS
		6	0	20.81	19.79	PASS
	HCH	1	0	21.58	20.69	PASS
		1	3	21.69	20.84	PASS
		1	5	21.56	20.67	PASS
		3	0	21.63	20.63	PASS
		3	2	21.71	20.66	PASS
		3	3	21.61	20.60	PASS
		6	0	20.70	20.08	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	22.46	21.78	PASS
		1	7	22.78	22.08	PASS
		1	14	22.65	21.97	PASS
		8	0	21.62	20.64	PASS
		8	4	21.66	20.69	PASS
		8	7	21.67	20.70	PASS
		15	0	21.62	20.59	PASS
	MCH	1	0	21.72	20.93	PASS
		1	7	21.86	21.09	PASS
		1	14	21.84	20.97	PASS
		8	0	20.72	20.32	PASS
		8	4	20.78	20.45	PASS
		8	7	20.78	20.36	PASS
		15	0	20.72	20.35	PASS
	HCH	1	0	21.18	20.54	PASS
		1	7	21.27	20.59	PASS
		1	14	21.08	20.43	PASS
		8	0	20.18	20.05	PASS
		8	4	20.23	20.21	PASS
		8	7	20.14	20.12	PASS
		15	0	20.14	20.06	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	21.90	21.34	PASS
		1	12	22.38	21.82	PASS
		1	24	22.17	21.60	PASS
		12	0	21.10	20.25	PASS
		12	6	21.22	20.37	PASS
		12	13	21.26	20.42	PASS
		25	0	21.20	20.23	PASS
	MCH	1	0	21.12	20.55	PASS
		1	12	21.52	20.90	PASS
		1	24	21.32	20.74	PASS
		12	0	20.23	20.04	PASS
		12	6	20.33	20.22	PASS
		12	13	20.33	20.25	PASS
		25	0	20.30	20.15	PASS
	HCH	1	0	21.29	20.33	PASS
		1	12	21.50	20.42	PASS
		1	24	21.07	20.00	PASS
		12	0	20.19	20.04	PASS
		12	6	20.27	20.09	PASS
		12	13	20.11	20.07	PASS
		25	0	20.18	20.16	PASS

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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	21.94	21.29	PASS
		1	24	22.39	21.69	PASS
		1	49	22.03	21.38	PASS
		25	0	21.29	20.27	PASS
		25	12	21.34	20.31	PASS
		25	25	21.21	20.19	PASS
		50	0	21.24	20.22	PASS
	MCH	1	0	21.07	20.40	PASS
		1	24	21.39	20.69	PASS
		1	49	21.51	20.81	PASS
		25	0	20.20	20.18	PASS
		25	12	20.35	20.16	PASS
		25	25	20.40	20.34	PASS
		50	0	20.27	20.19	PASS
	HCH	1	0	21.78	20.65	PASS
		1	24	21.47	20.93	PASS
		1	49	21.00	20.38	PASS
		25	0	20.56	20.46	PASS
		25	12	20.44	20.36	PASS
		25	25	20.34	20.28	PASS
		50	0	20.40	20.26	PASS

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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	21.88	21.20	PASS
		1	37	22.47	21.63	PASS
		1	74	21.34	20.70	PASS
		37	0	21.26	20.26	PASS
		37	18	21.27	20.26	PASS
		37	38	20.86	20.78	PASS
		75	0	21.11	20.11	PASS
	MCH	1	0	20.95	20.30	PASS
		1	37	21.44	20.72	PASS
		1	74	21.58	20.91	PASS
		37	0	20.14	20.04	PASS
		37	18	20.33	20.30	PASS
		37	38	20.47	20.38	PASS
		75	0	20.38	20.34	PASS
	HCH	1	0	22.03	21.30	PASS
		1	37	21.72	21.18	PASS
		1	74	20.94	20.23	PASS
		37	0	21.05	20.08	PASS
		37	18	20.69	20.59	PASS
		37	38	20.47	20.31	PASS
		75	0	21.24	20.20	PASS

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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	22.33	21.56	PASS
		1	49	22.75	21.98	PASS
		1	99	21.44	20.58	PASS
		50	0	21.87	20.82	PASS
		50	25	21.62	20.60	PASS
		50	50	21.01	20.01	PASS
		100	0	21.51	20.50	PASS
	MCH	1	0	21.43	20.57	PASS
		1	49	22.02	21.15	PASS
		1	99	22.18	21.34	PASS
		50	0	20.48	20.31	PASS
		50	25	20.79	20.26	PASS
		50	50	20.91	20.85	PASS
		100	0	20.66	20.51	PASS
	HCH	1	0	22.30	21.67	PASS
		1	49	22.57	21.89	PASS
		1	99	21.28	20.53	PASS
		50	0	21.86	20.45	PASS
		50	25	21.16	21.03	PASS
		50	50	20.82	20.26	PASS
		100	0	21.04	20.08	PASS

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A.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	5.33	<13	PASS
	MCH	5.27	<13	PASS
	HCH	4.51	<13	PASS
16QAM	LCH	6.25	<13	PASS
	MCH	6.19	<13	PASS
	HCH	5.35	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.36	<13	PASS
	MCH	5.37	<13	PASS
	HCH	4.8	<13	PASS
16QAM	LCH	6.25	<13	PASS
	MCH	6.23	<13	PASS
	HCH	5.59	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.48	<13	PASS
	MCH	5.32	<13	PASS
	HCH	4.95	<13	PASS
16QAM	LCH	6.27	<13	PASS
	MCH	6.12	<13	PASS
	HCH	5.74	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.47	<13	PASS
	MCH	5.44	<13	PASS
	HCH	5.35	<13	PASS
16QAM	LCH	6.21	<13	PASS
	MCH	6.11	<13	PASS
	HCH	6.09	<13	PASS

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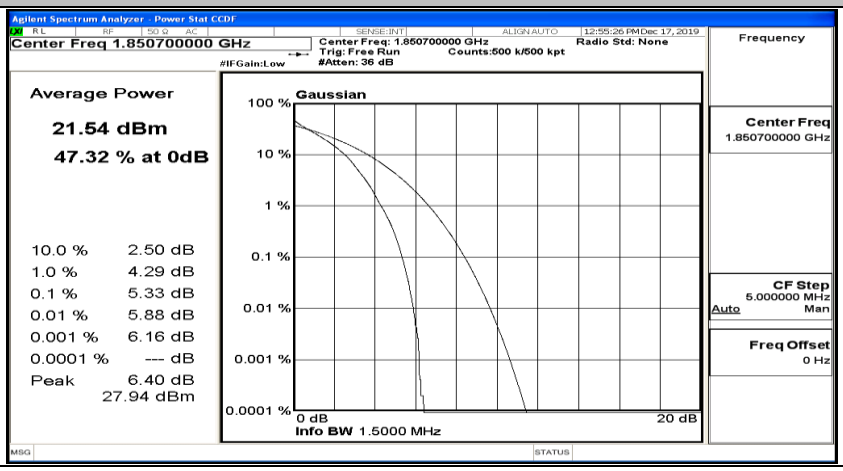
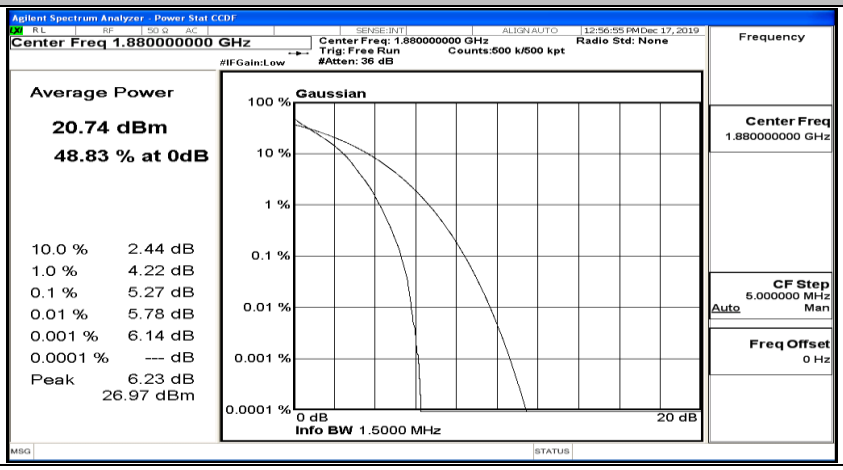
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.9	<13	PASS
	MCH	4.92	<13	PASS
	HCH	5.2	<13	PASS
16QAM	LCH	6.14	<13	PASS
	MCH	6.11	<13	PASS
	HCH	6.3	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.85	<13	PASS
	MCH	5.8	<13	PASS
	HCH	5.81	<13	PASS
16QAM	LCH	6.71	<13	PASS
	MCH	6.69	<13	PASS
	HCH	6.69	<13	PASS

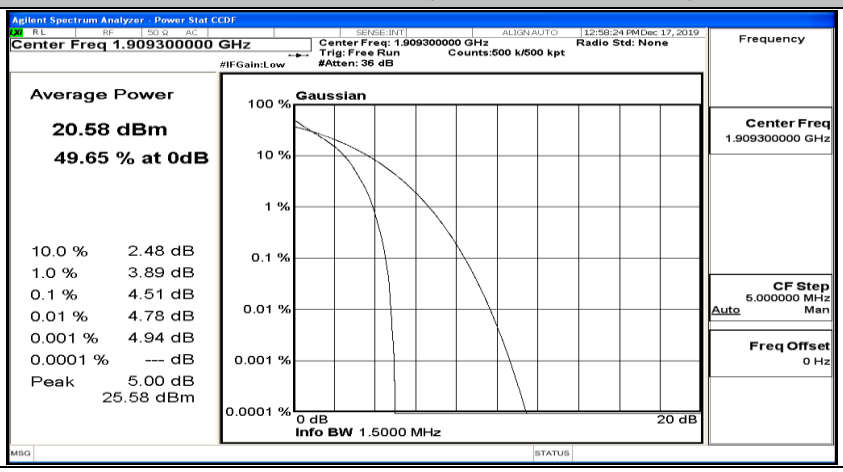
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



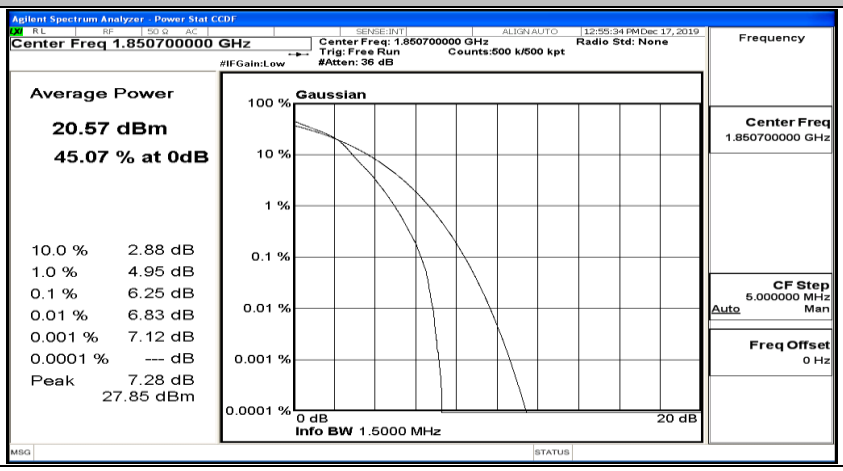
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



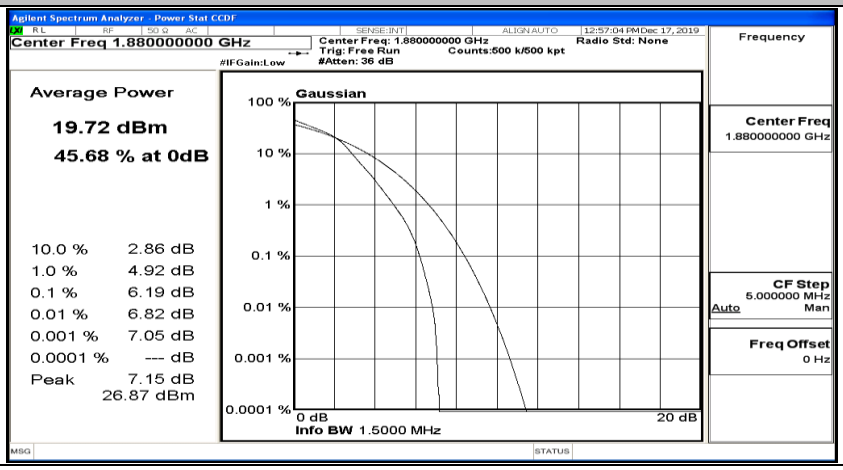
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



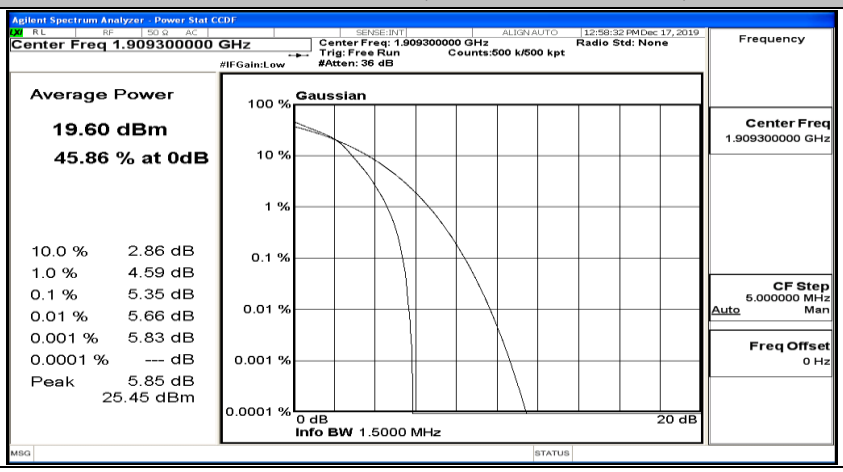
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



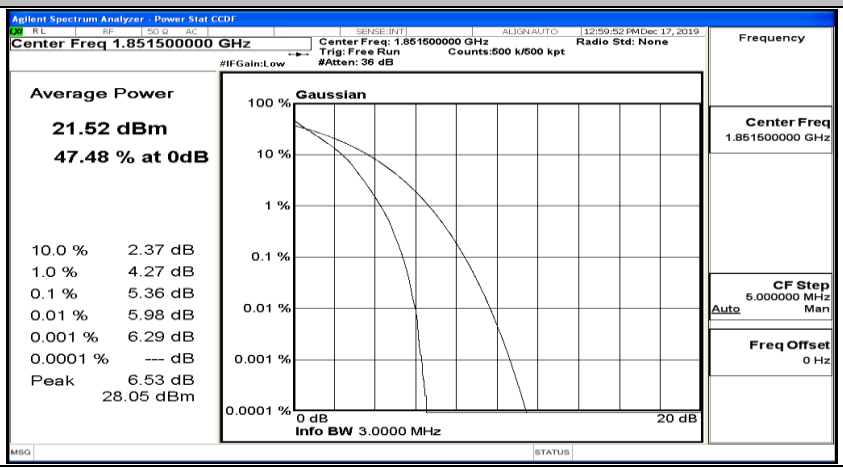
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



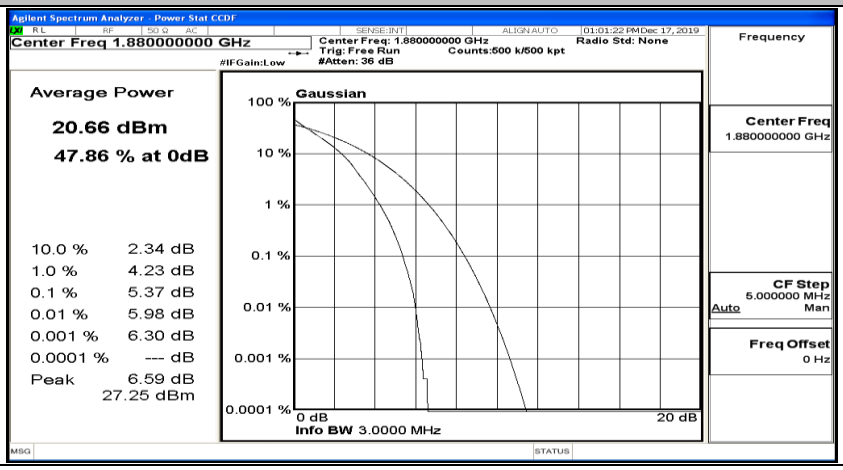
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



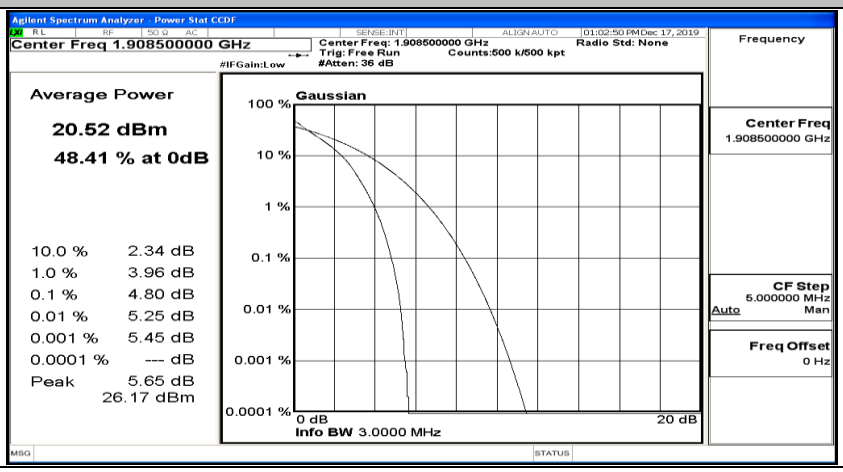
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



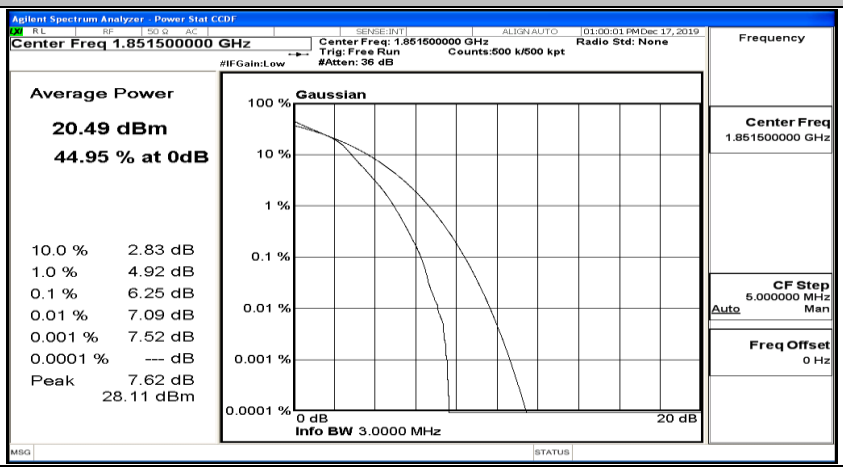
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



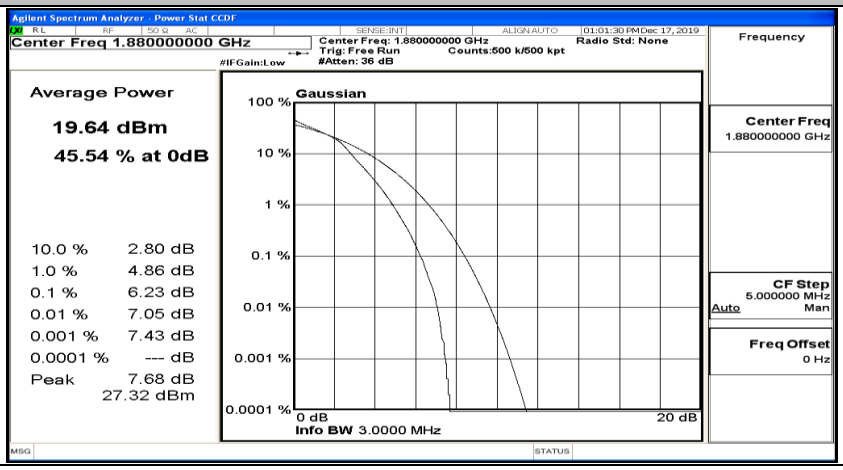
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



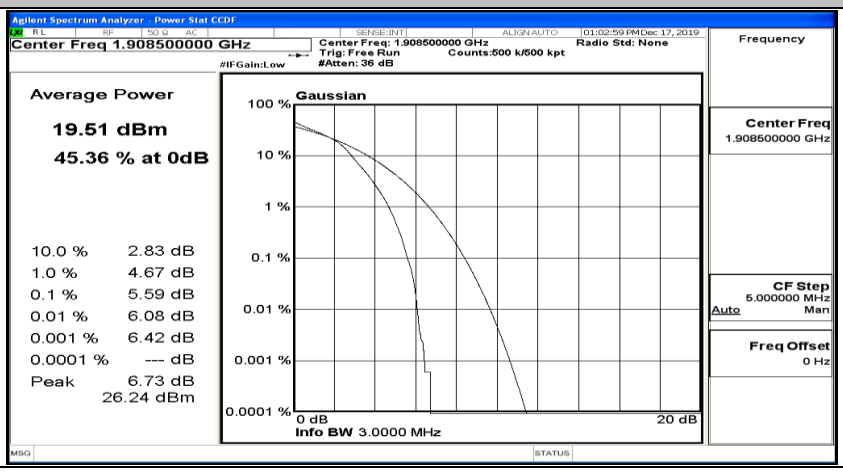
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



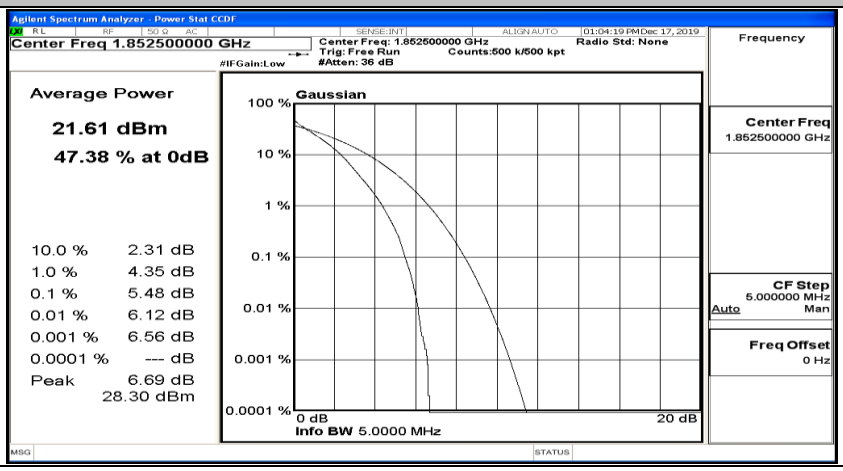
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



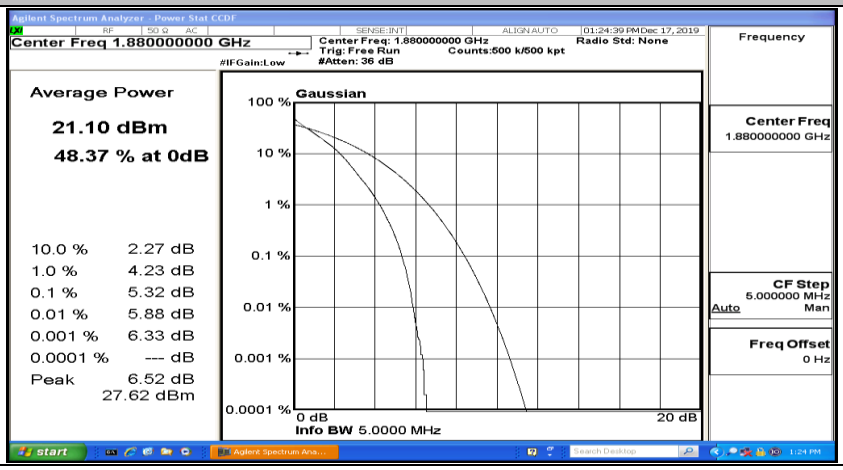
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



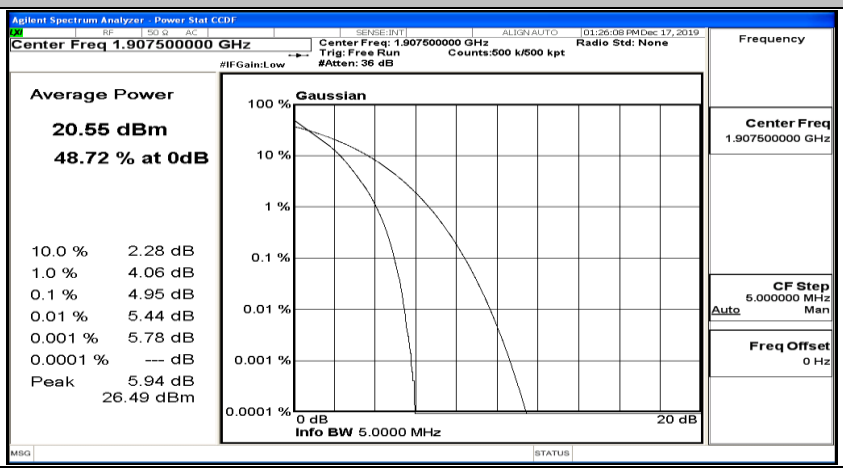
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



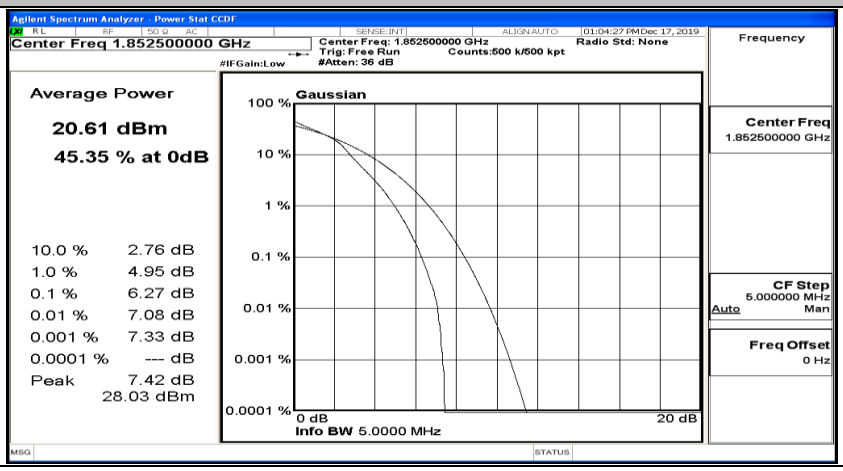
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



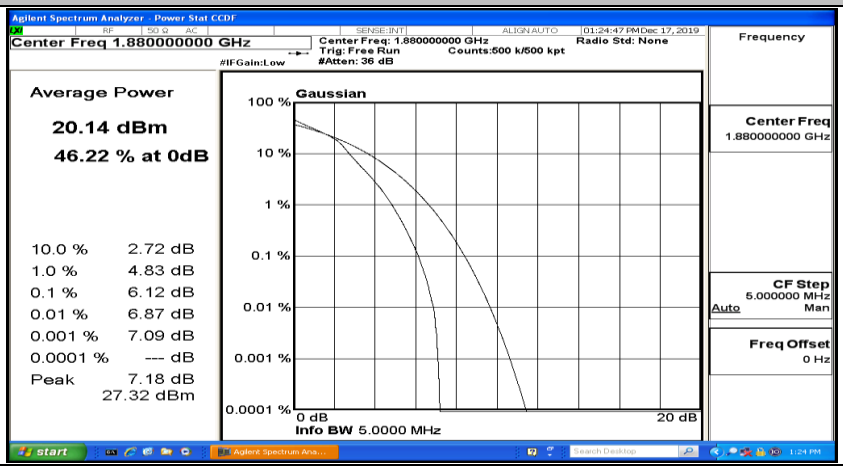
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



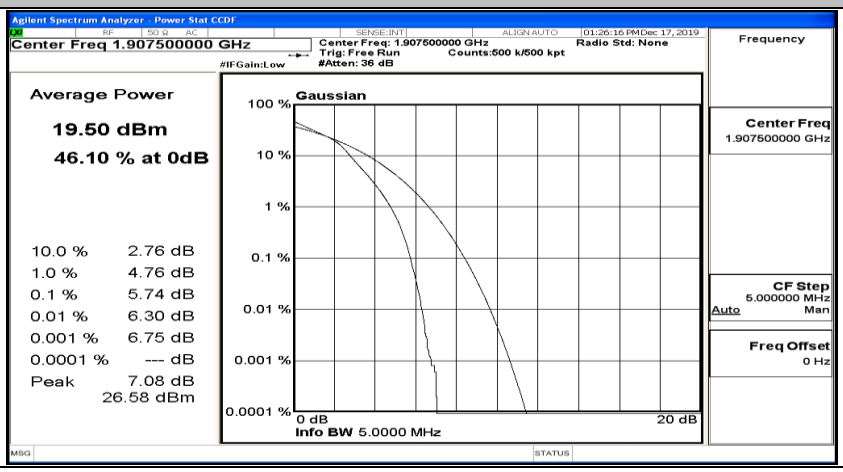
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



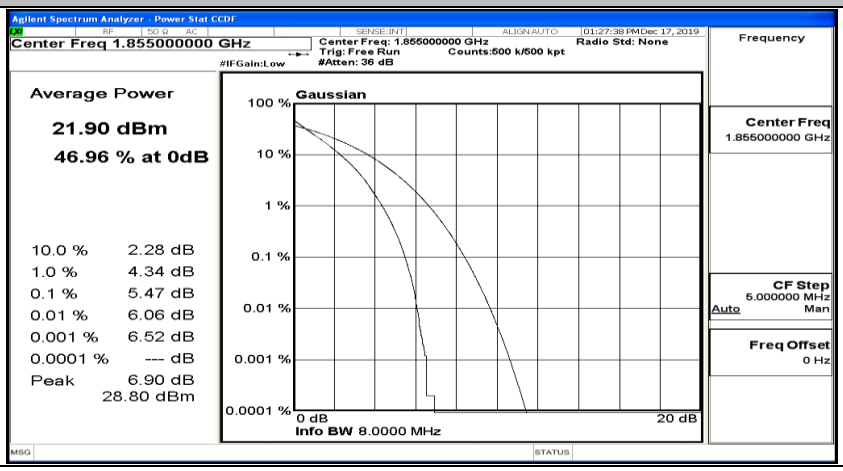
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



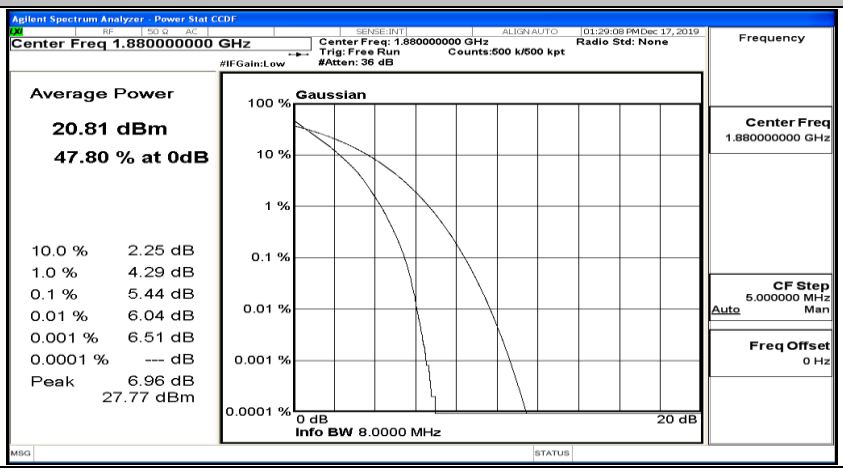
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



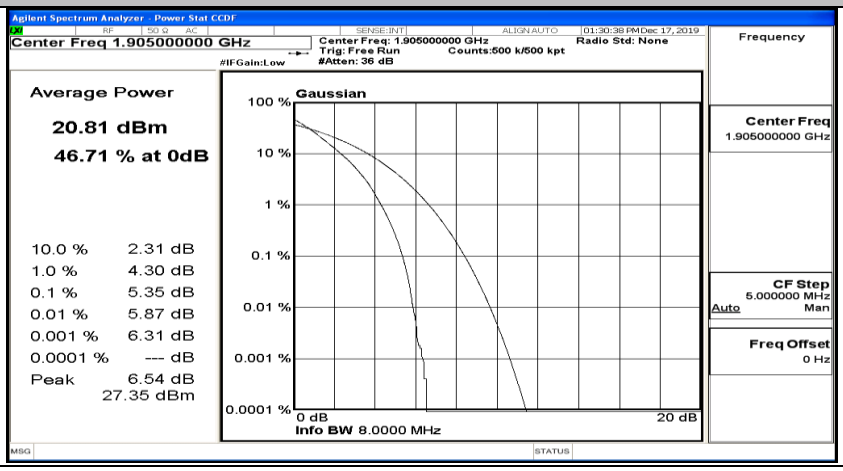
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



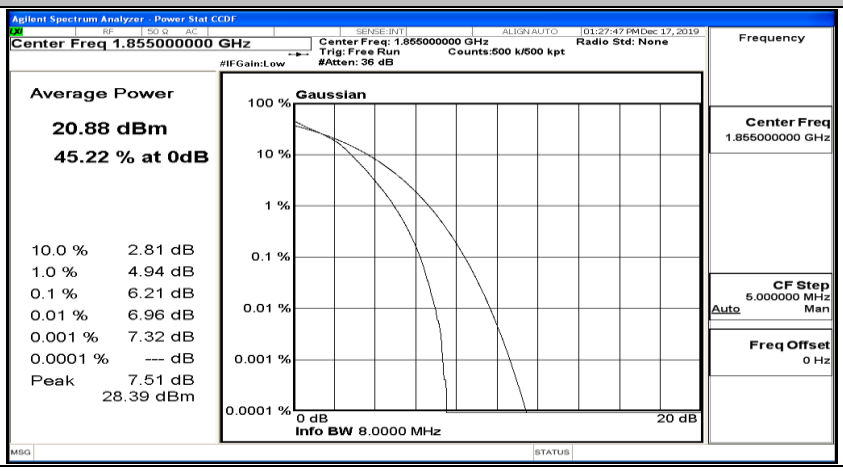
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



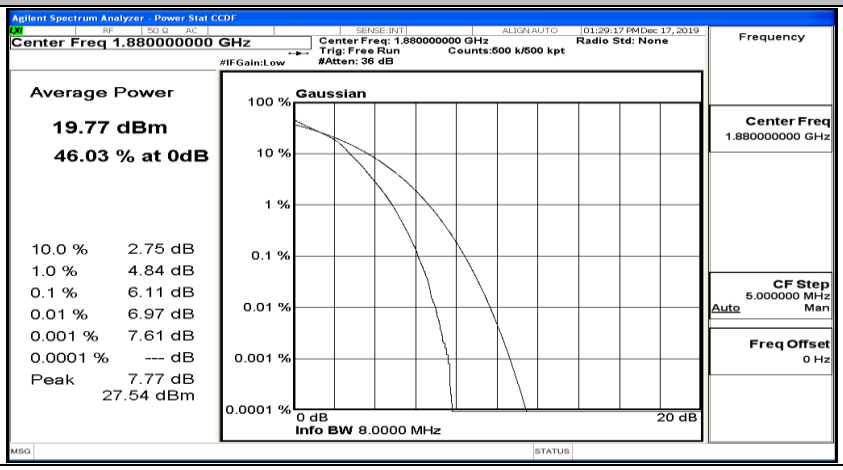
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



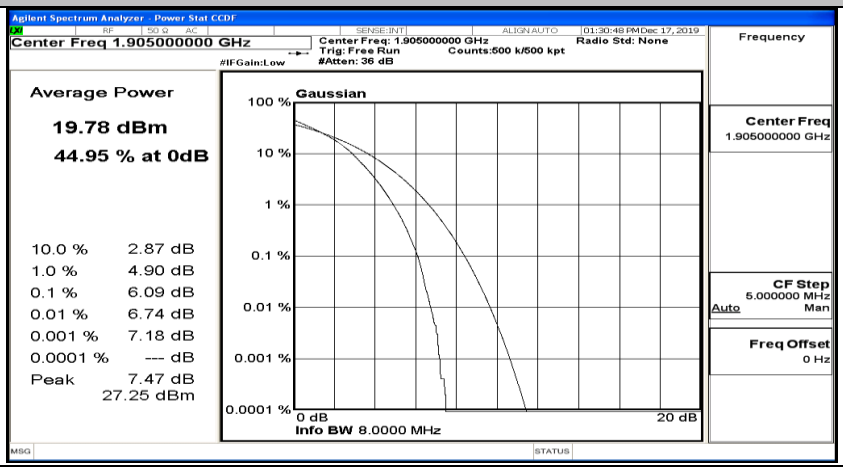
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



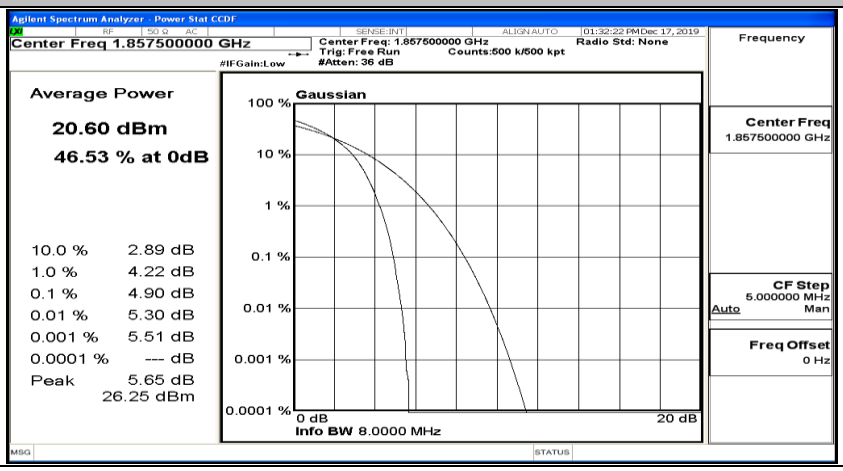
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



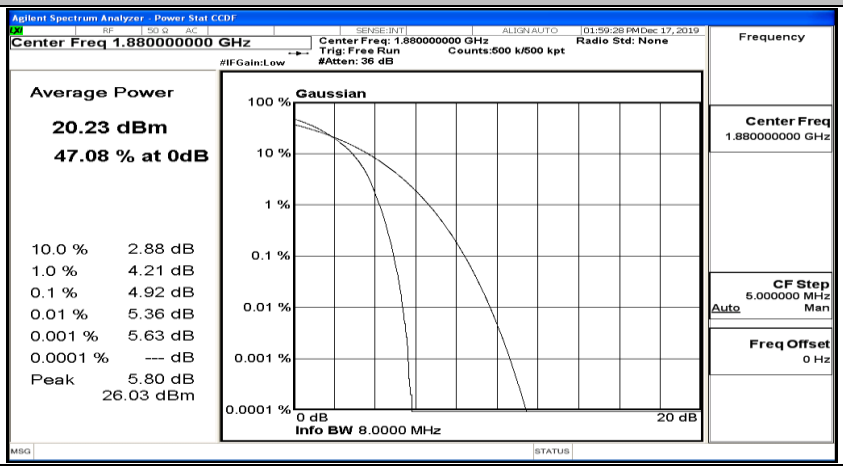
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



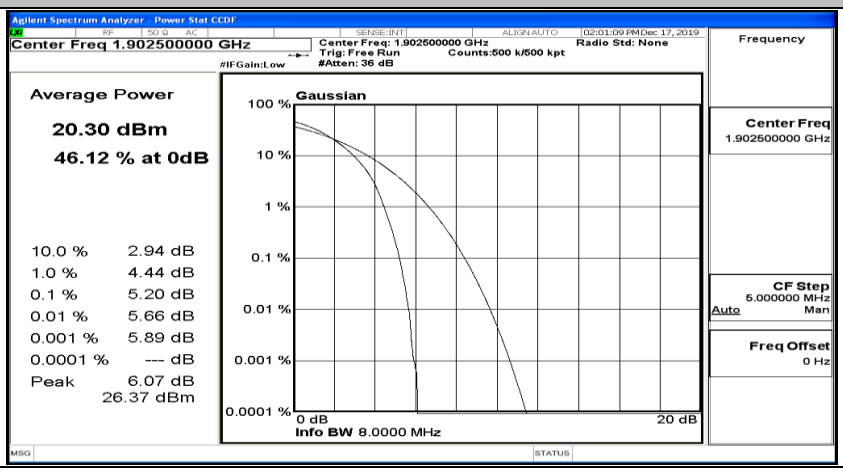
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



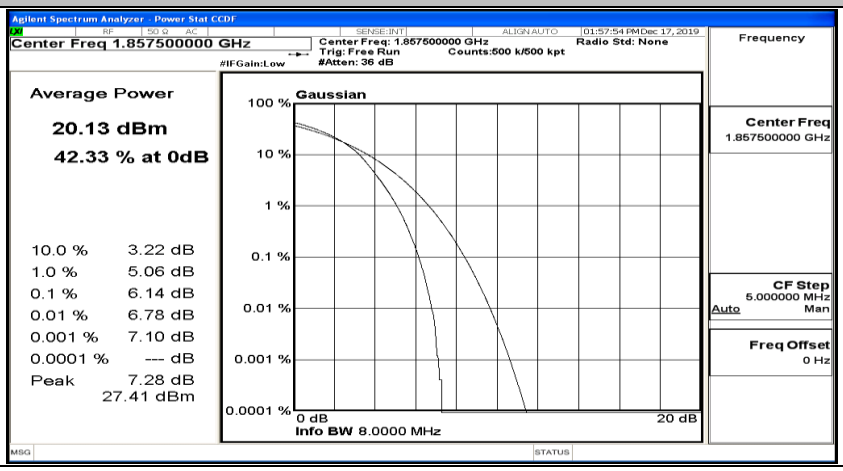
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



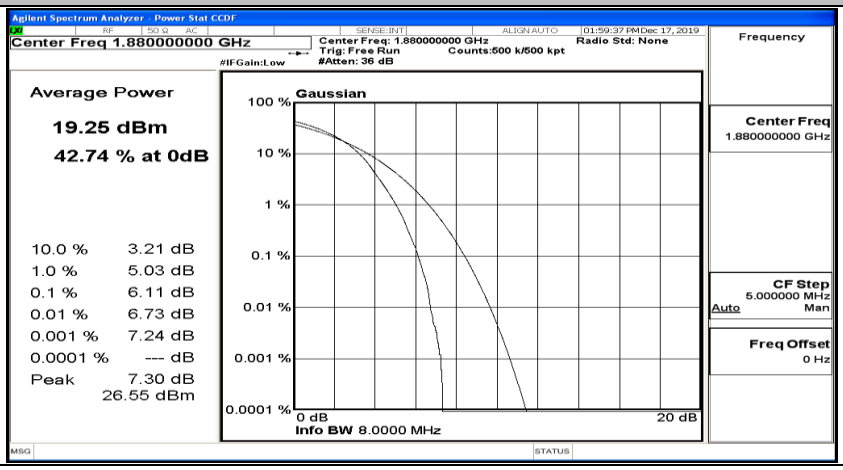
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



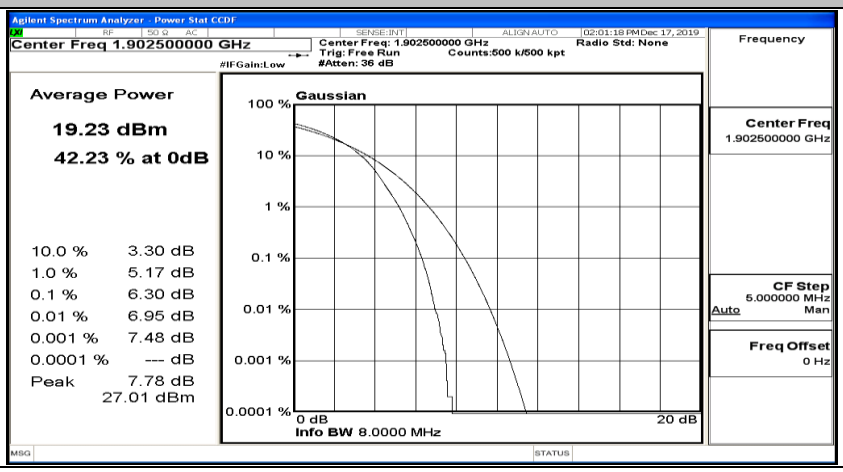
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



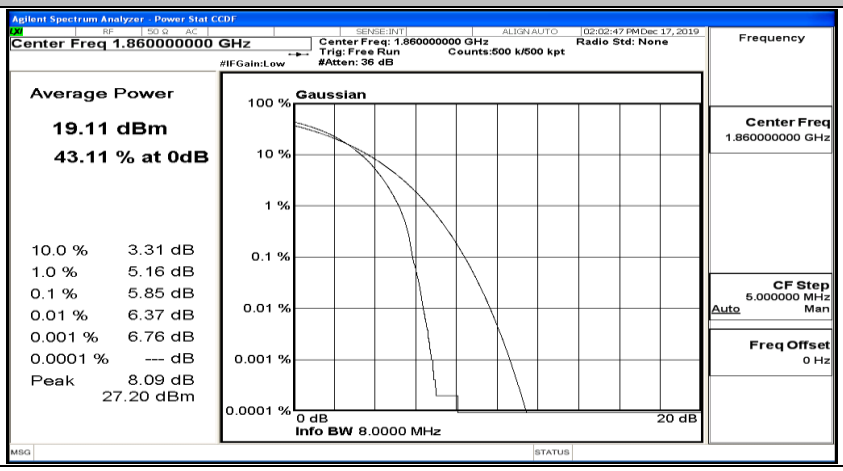
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



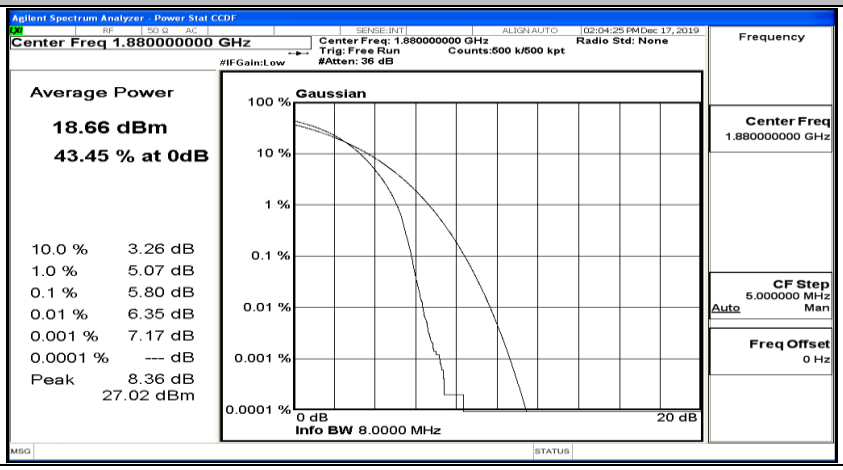
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



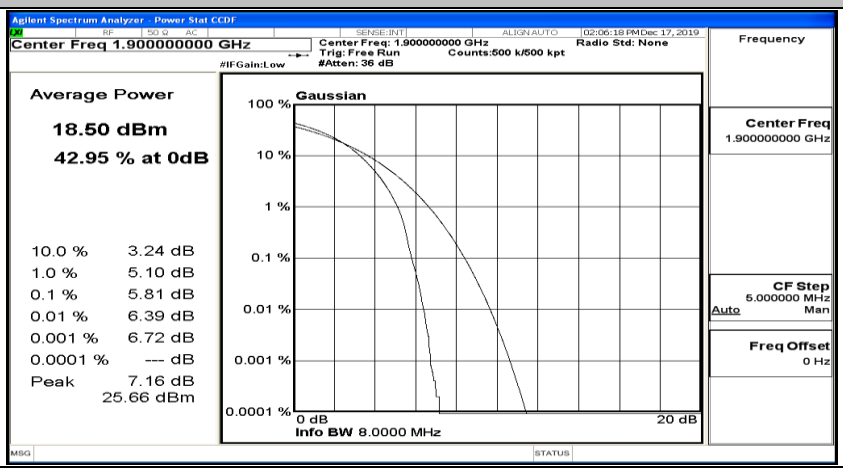
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



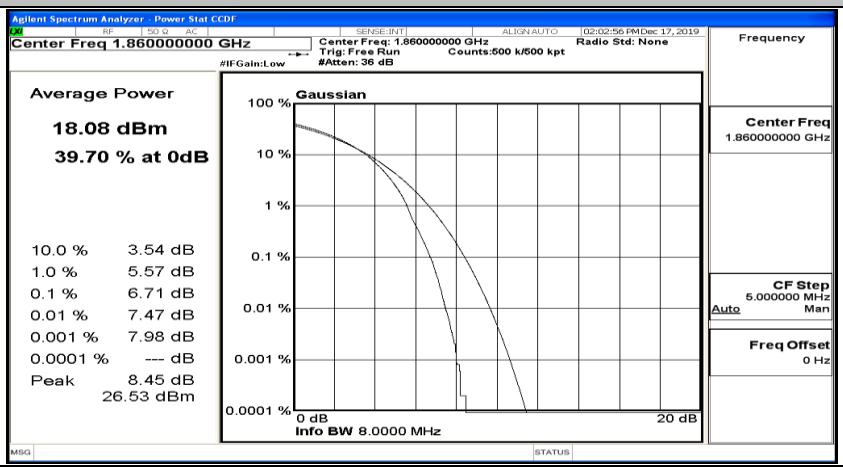
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



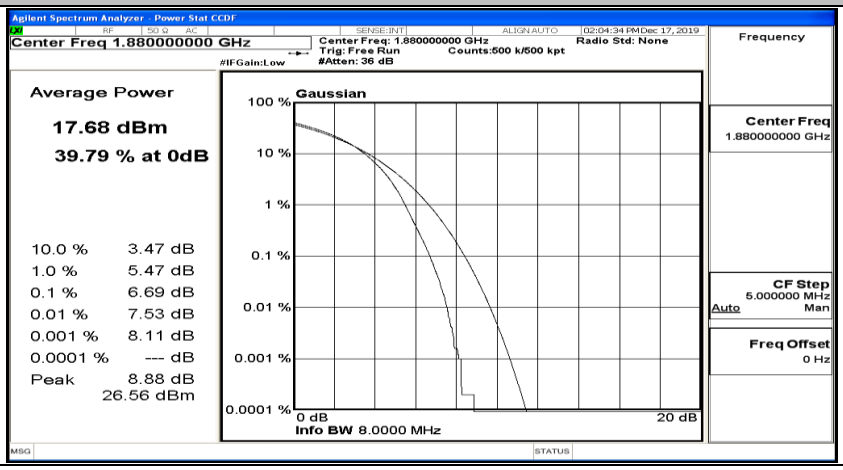
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



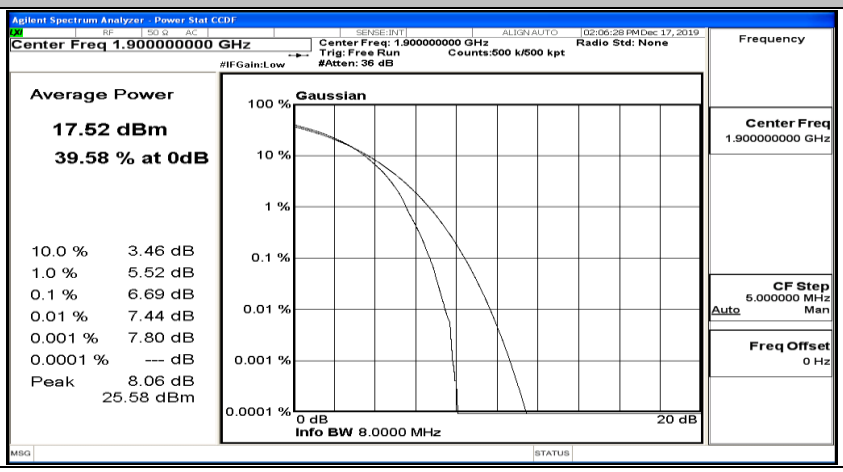
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



A.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	1.0780	1.245	PASS
	MCH	1.0756	1.222	PASS
	HCH	1.0773	1.239	PASS
16QAM	LCH	1.0812	1.229	PASS
	MCH	1.0790	1.238	PASS
	HCH	1.0811	1.240	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6834	2.888	PASS
	MCH	2.6849	2.864	PASS
	HCH	2.6836	2.880	PASS
16QAM	LCH	2.6827	2.887	PASS
	MCH	2.6821	2.866	PASS
	HCH	2.6862	2.872	PASS

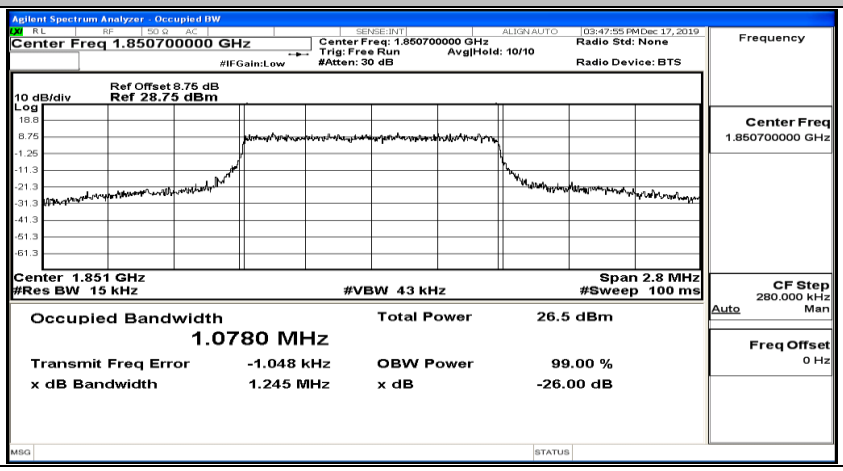
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4805	4.857	PASS
	MCH	4.4785	4.805	PASS
	HCH	4.4771	4.805	PASS
16QAM	LCH	4.4790	4.822	PASS
	MCH	4.4859	4.855	PASS
	HCH	4.4853	4.823	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9342	9.455	PASS
	MCH	8.9421	9.461	PASS
	HCH	8.9319	9.439	PASS
16QAM	LCH	8.9310	9.503	PASS
	MCH	8.9293	9.502	PASS
	HCH	8.9340	9.487	PASS

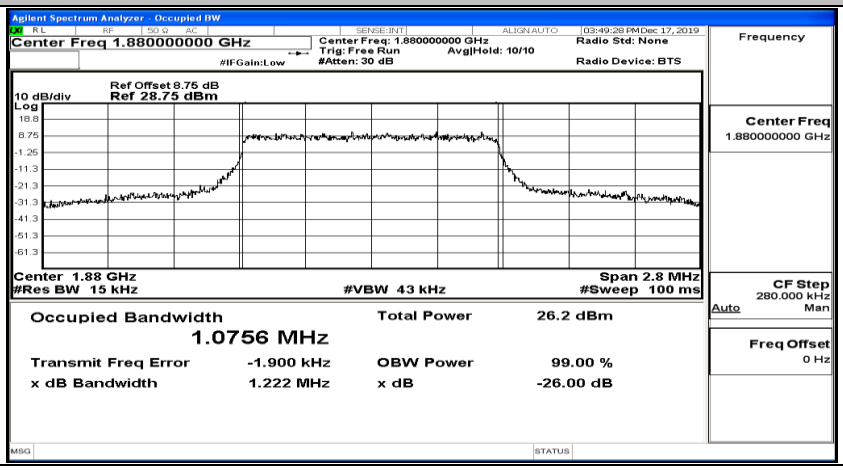
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.412	14.18	PASS
	MCH	13.388	14.00	PASS
	HCH	13.419	14.12	PASS
16QAM	LCH	13.400	14.15	PASS
	MCH	13.394	14.05	PASS
	HCH	13.426	14.10	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.855	18.63	PASS
	MCH	17.854	18.59	PASS
	HCH	17.861	18.63	PASS
16QAM	LCH	17.870	18.59	PASS
	MCH	17.867	18.63	PASS
	HCH	17.859	18.63	PASS

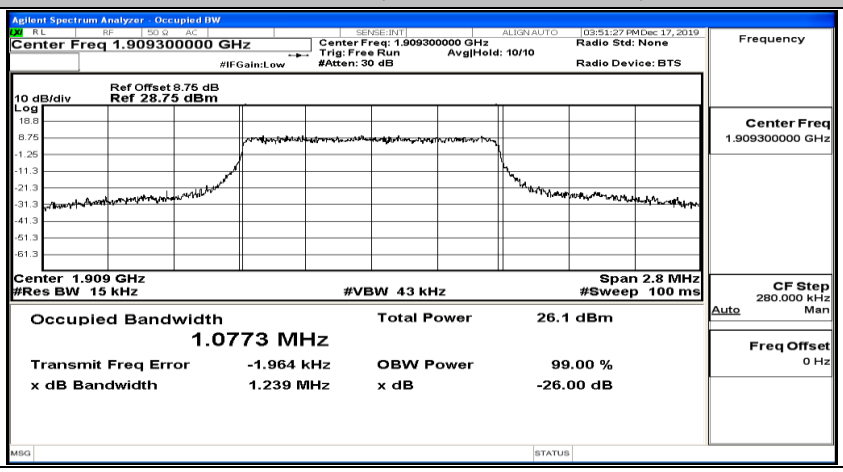
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



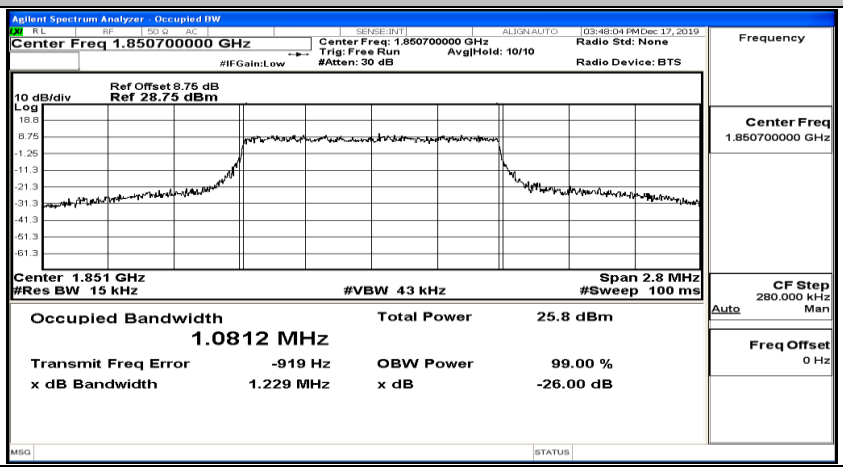
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



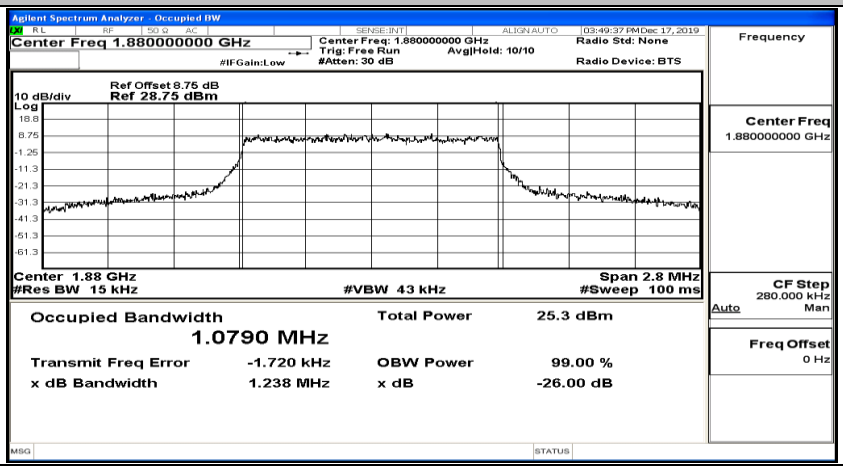
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



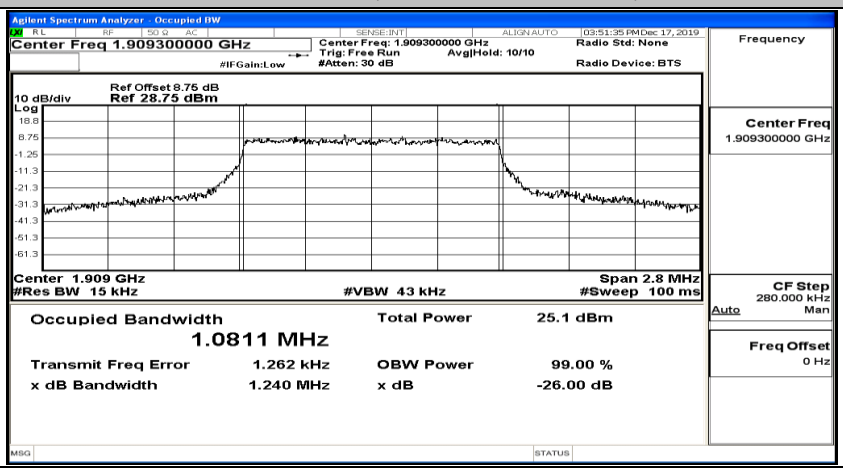
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



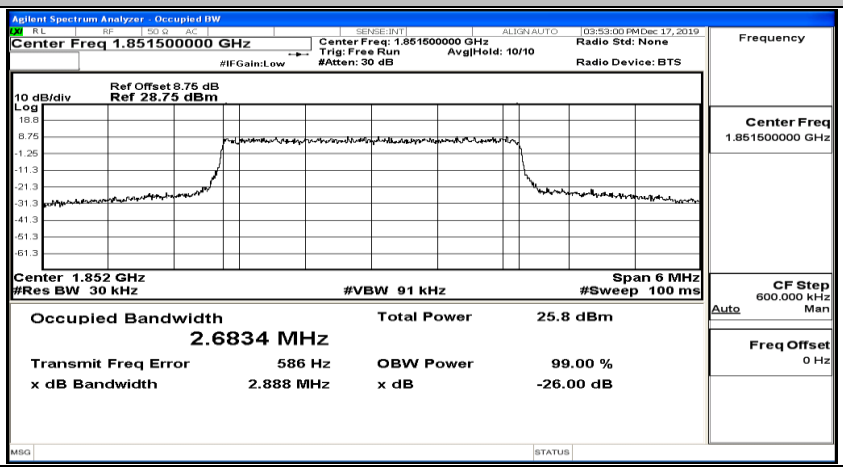
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



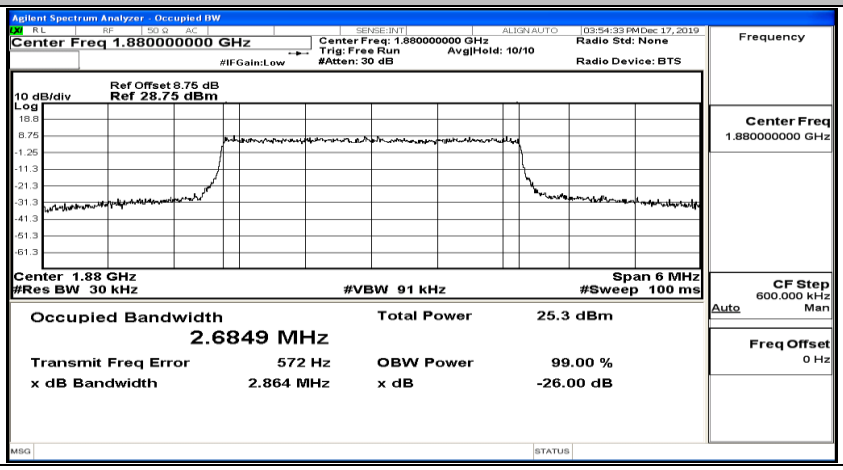
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



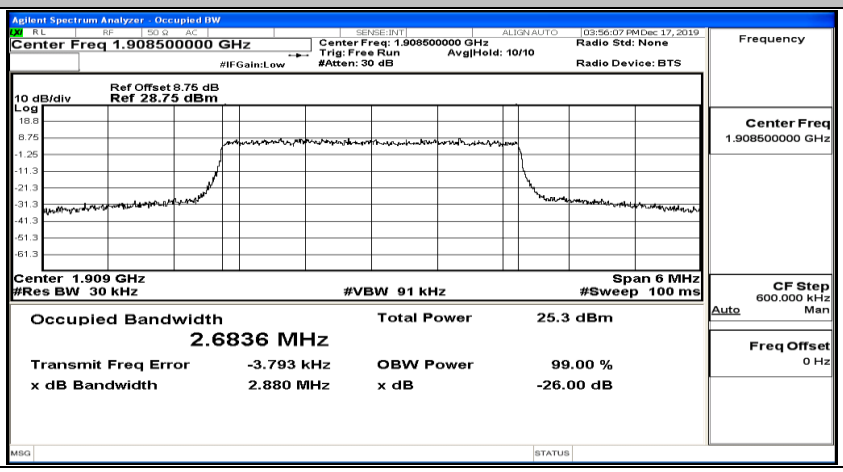
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



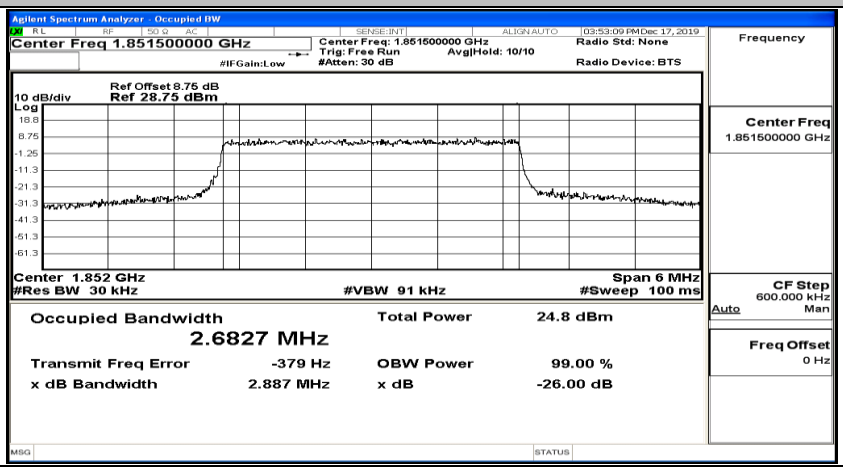
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



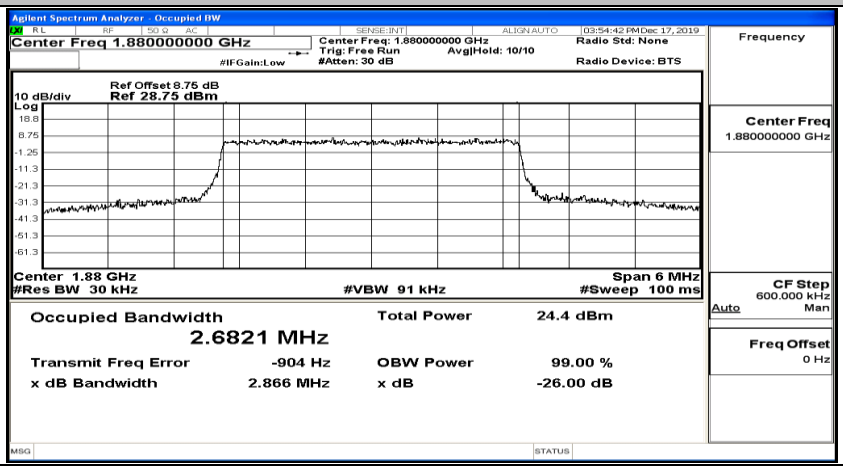
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



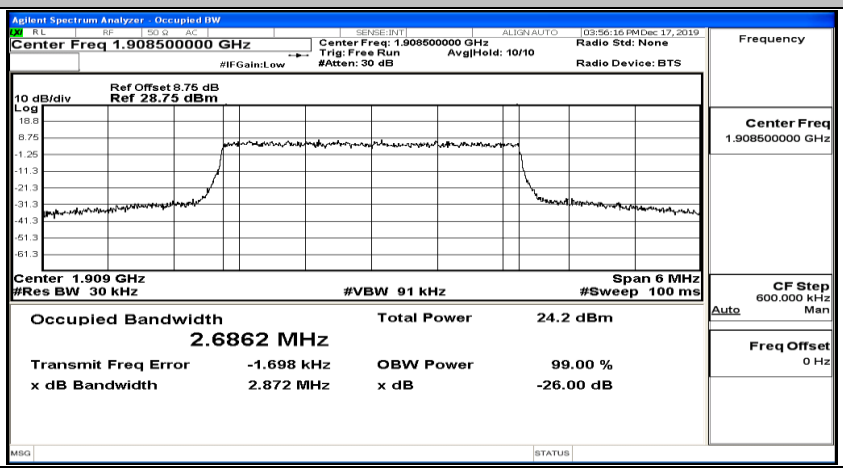
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



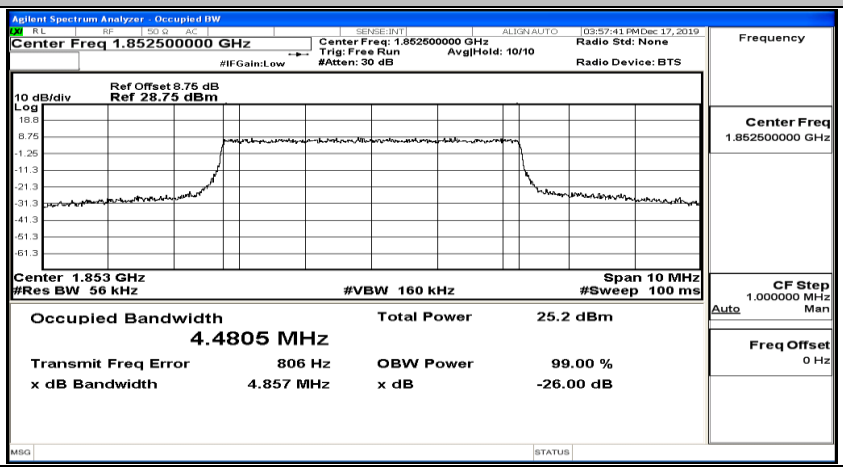
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



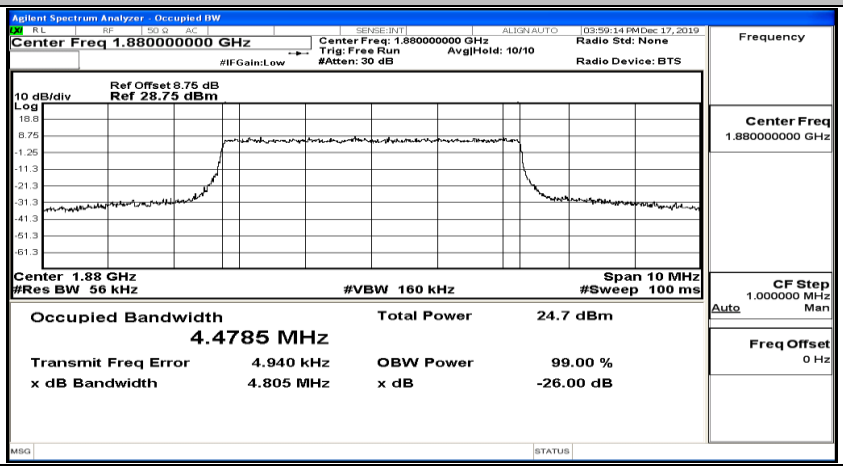
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



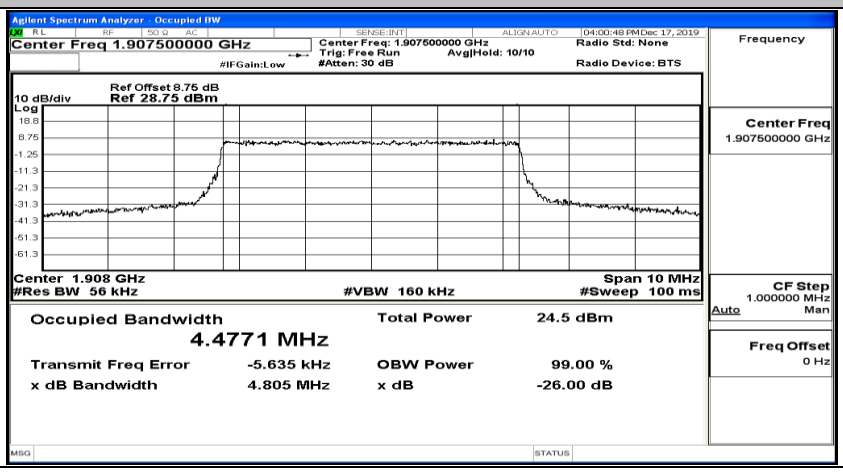
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



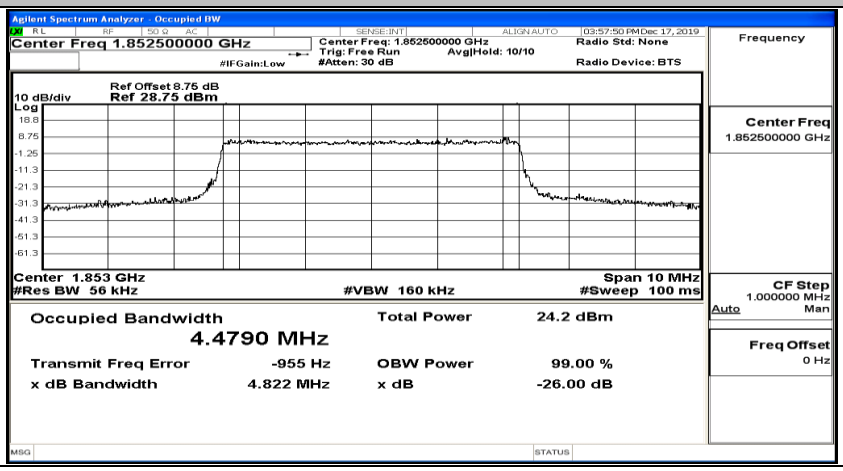
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



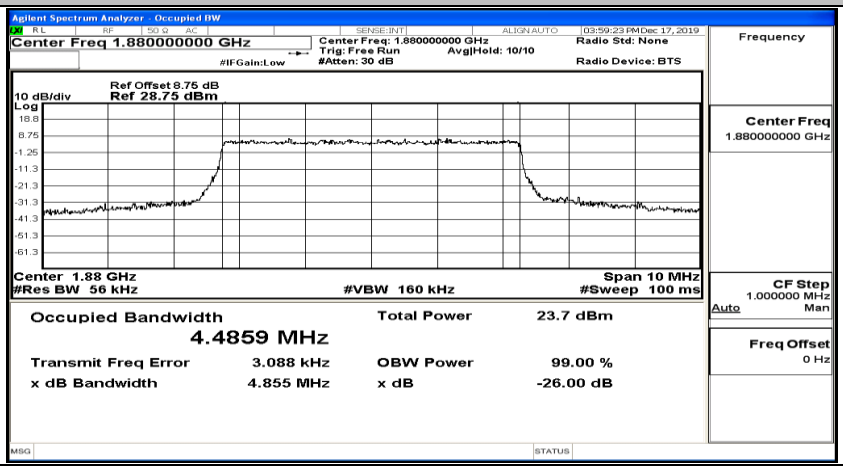
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



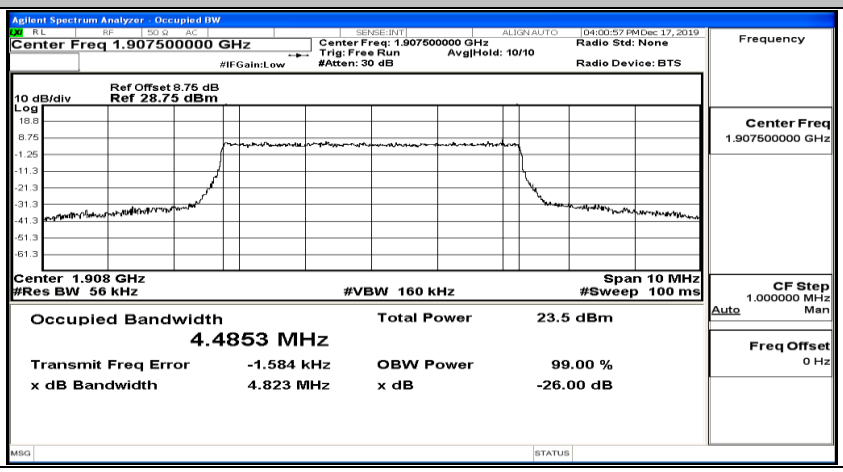
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



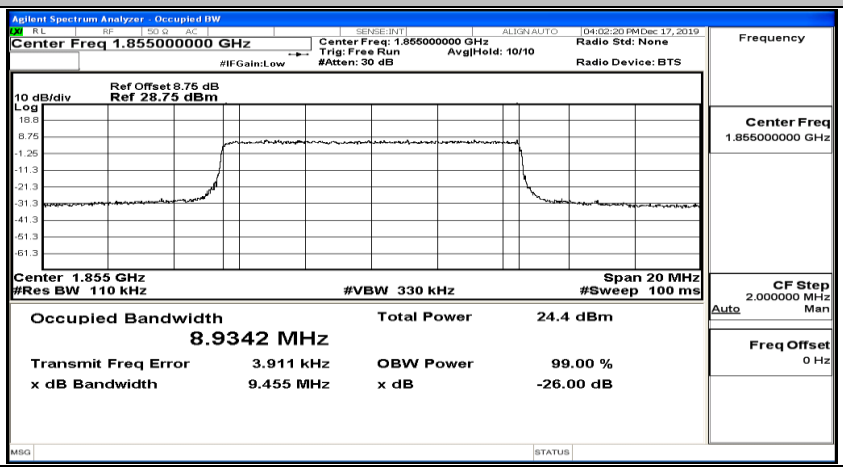
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



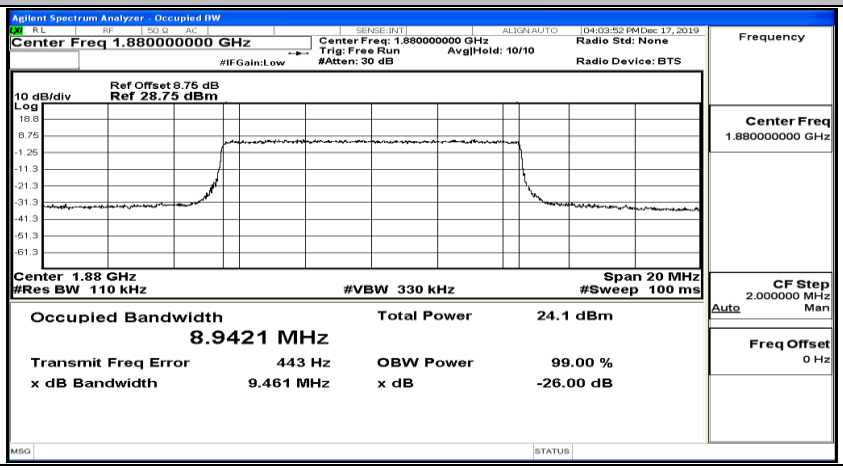
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



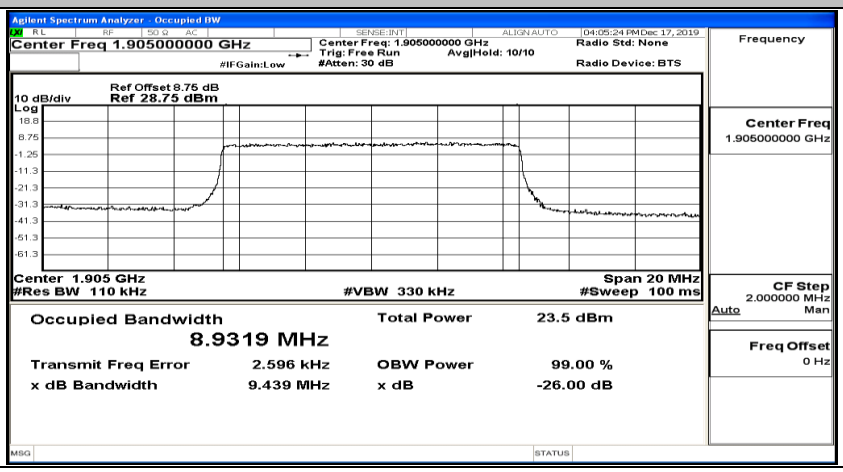
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



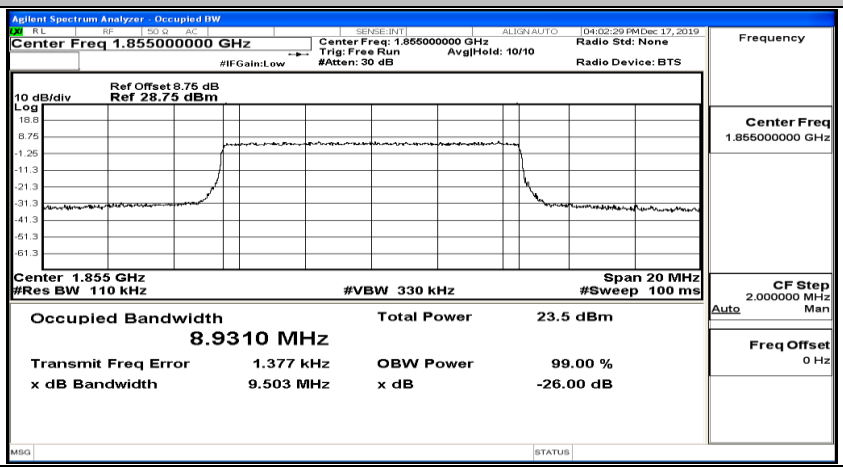
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



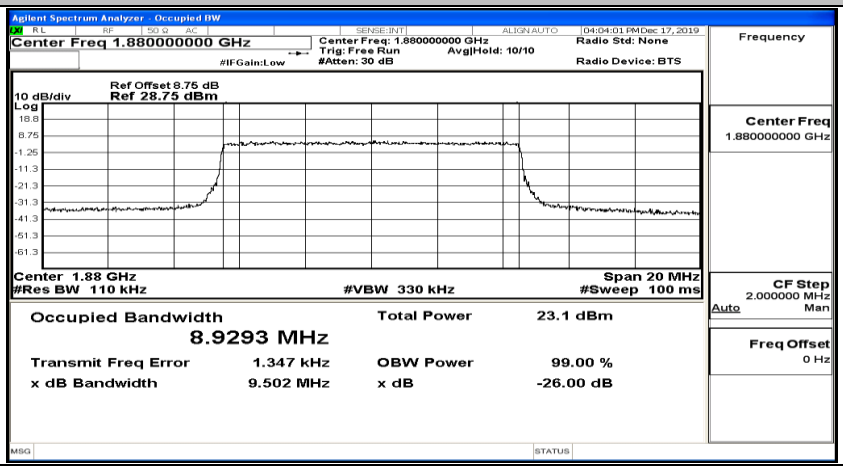
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



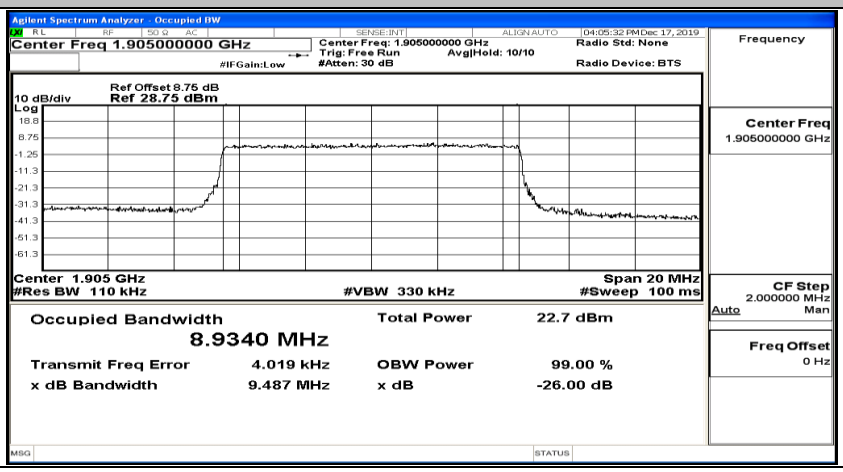
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



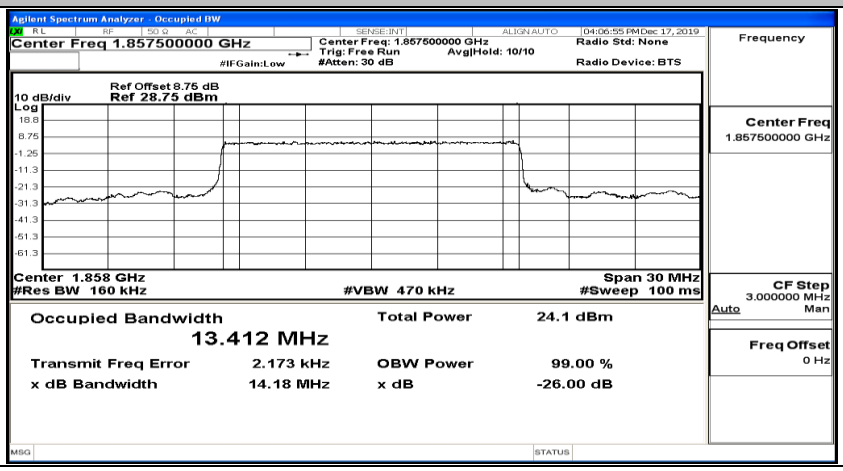
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



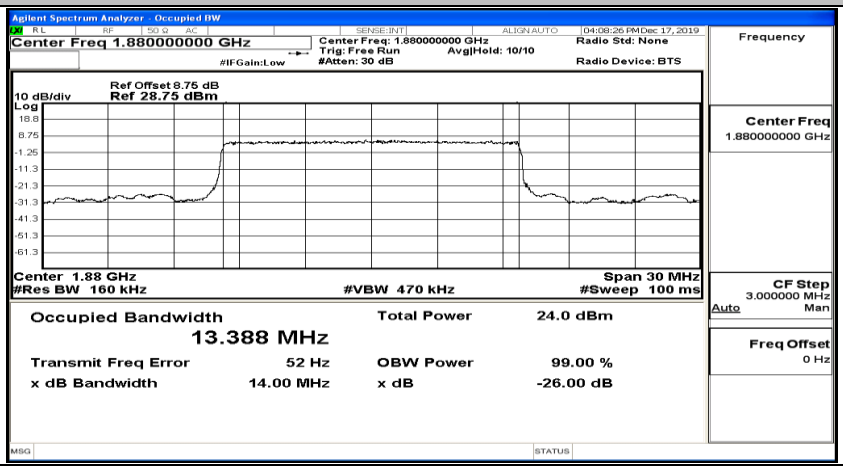
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



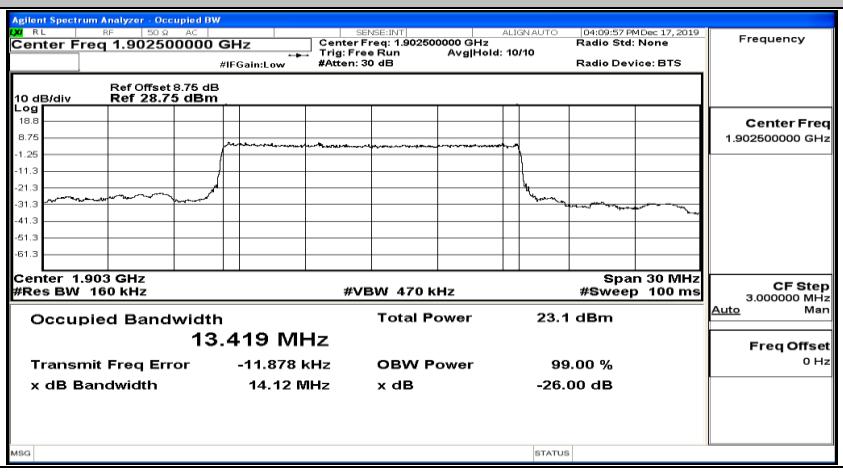
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



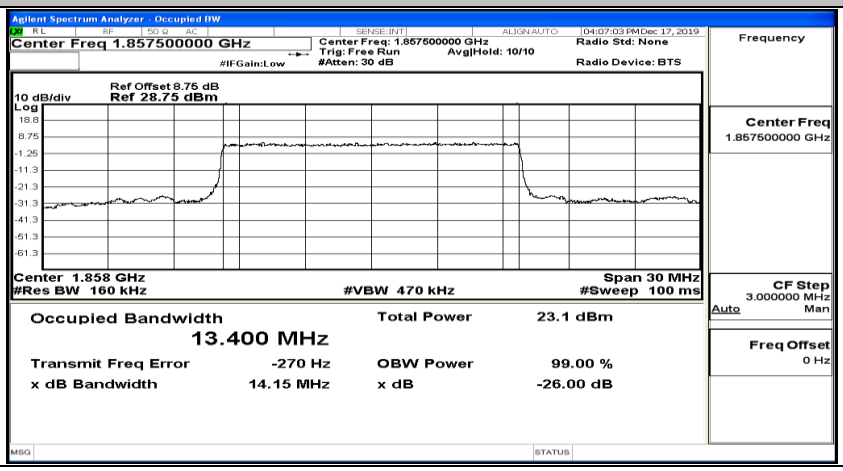
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



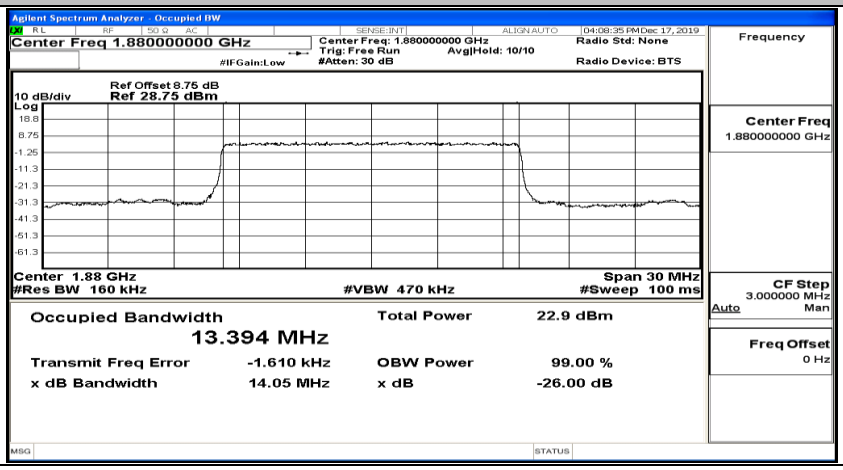
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



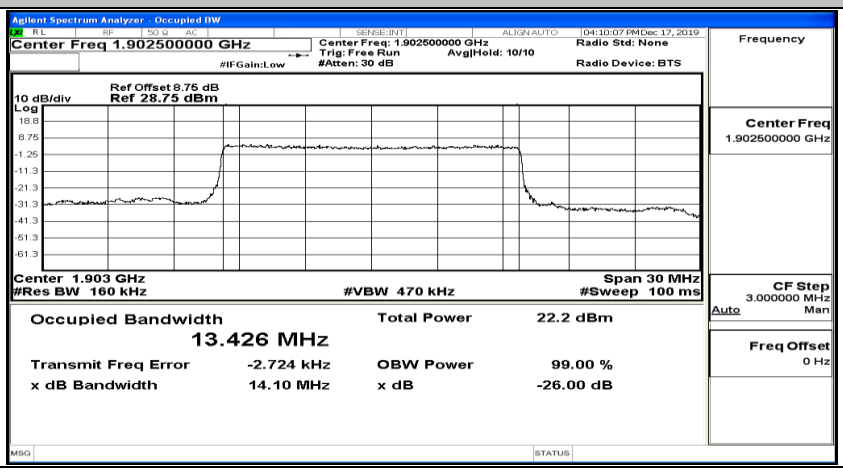
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



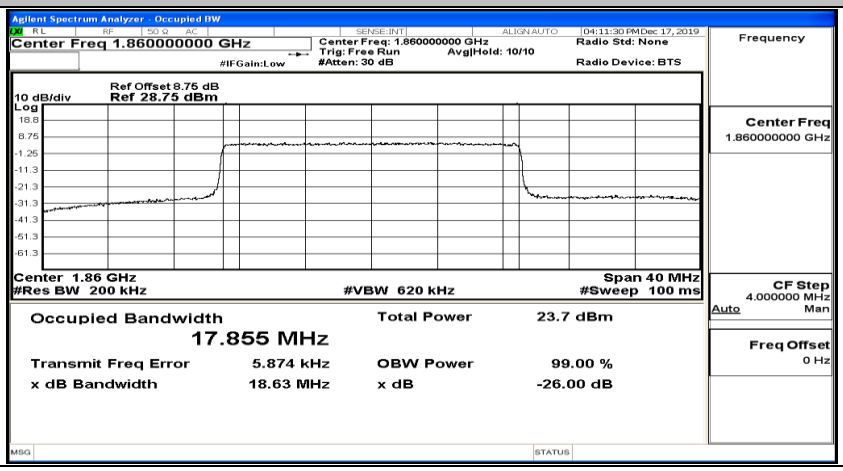
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



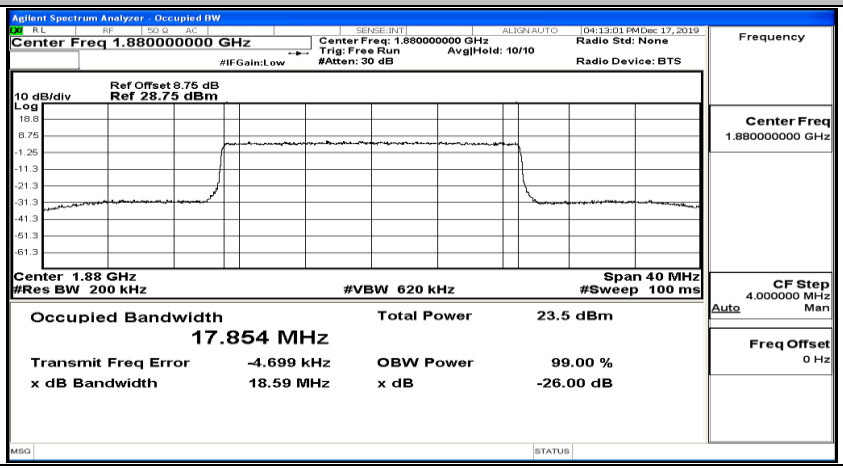
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



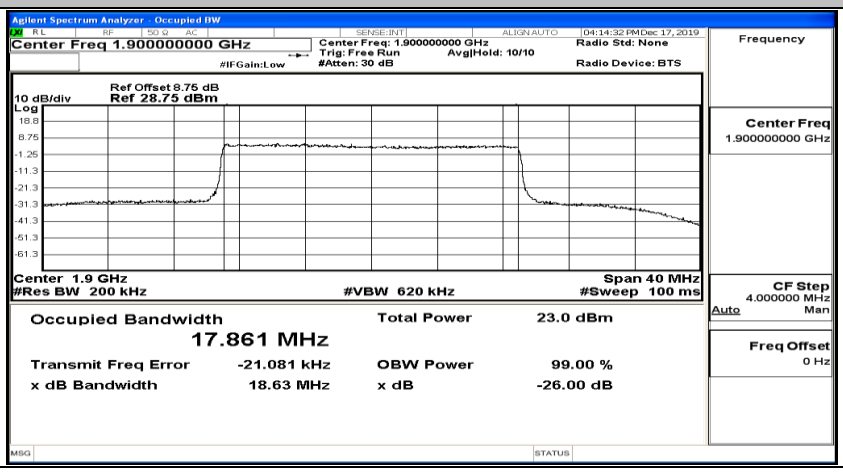
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



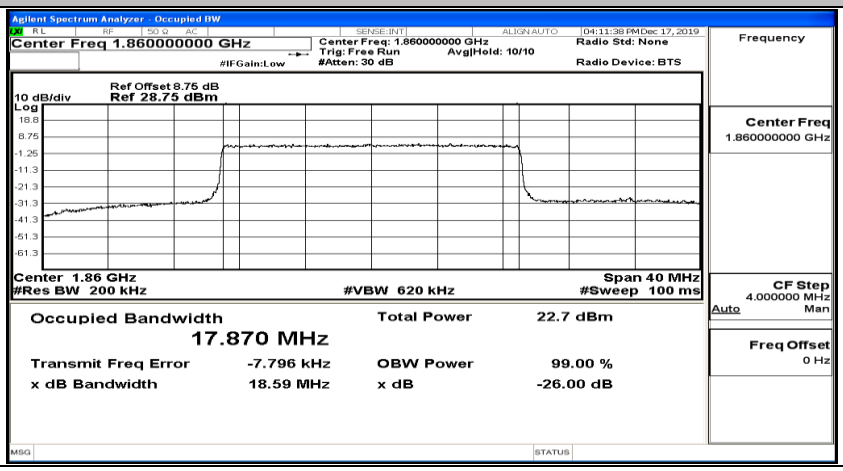
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



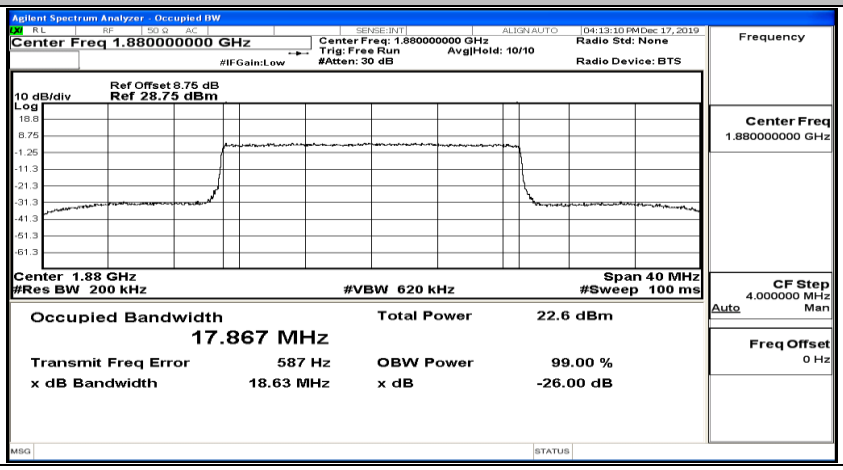
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



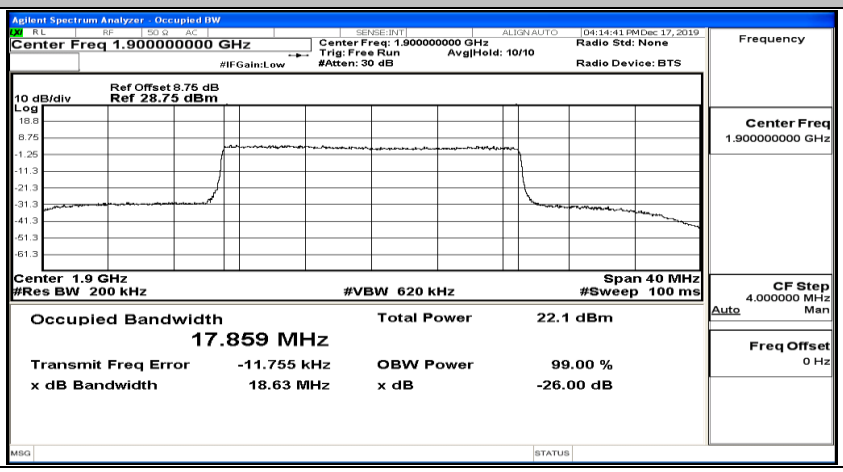
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM

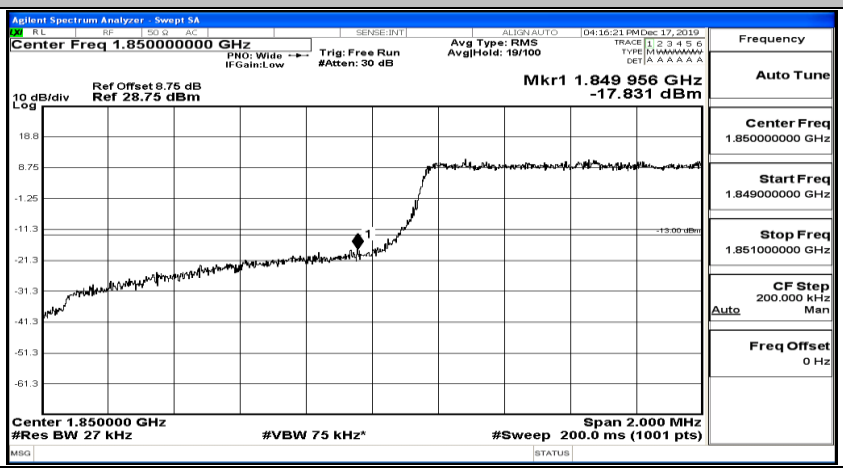


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

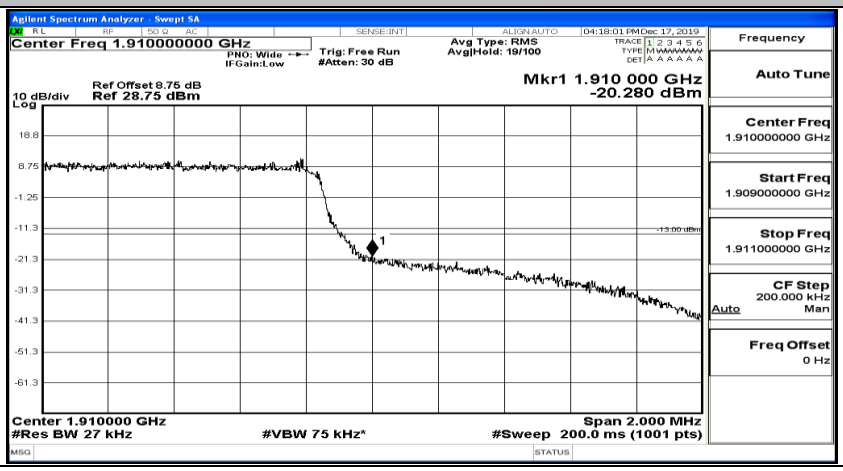
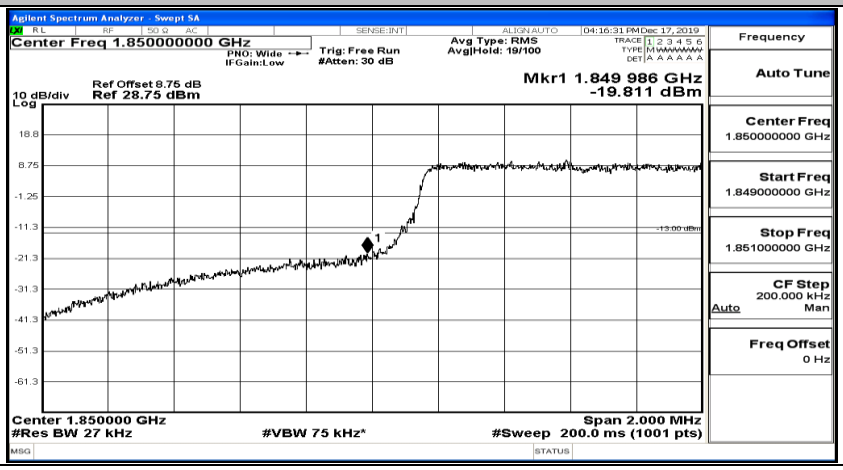


A.4 Band Edge

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