Appendix B: Test Data for E-UTRA Band 2

Product Name: Brama L

Trade Mark: N/A

Test Model: ID

Environmental Conditions

Temperature:	22.9° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

B.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	22.82	22.05	PASS
		1	3	23.01	22.23	PASS
		1	5	22.94	22.13	PASS
		3	0	22.97	21.96	PASS
		3	2	22.98	21.96	PASS
		3	3	23.01	21.95	PASS
		6	0	21.99	20.86	PASS
	MCH	1	0	22.99	21.95	PASS
		1	3	22.99	21.97	PASS
		1	5	22.92	21.85	PASS
		3	0	23.10	21.94	PASS
		3	2	23.09	21.90	PASS
		3	3	23.09	21.89	PASS
		6	0	21.99	21.03	PASS
	HCH	1	0	23.03	22.15	PASS
		1	3	23.17	22.26	PASS
		1	5	22.99	22.06	PASS
		3	0	23.16	21.99	PASS
		3	2	23.13	22.02	PASS
		3	3	23.10	21.97	PASS
		6	0	22.09	21.12	PASS

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

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	22.94	22.15	PASS
		1	7	23.06	22.24	PASS
		1	14	23.18	22.33	PASS
		8	0	21.96	21.05	PASS
		8	4	22.00	21.05	PASS
		8	7	22.14	21.20	PASS
		15	0	22.07	21.08	PASS
	MCH	1	0	23.07	22.29	PASS
		1	7	22.99	22.13	PASS
		1	14	22.93	22.04	PASS
		8	0	22.02	21.05	PASS
		8	4	22.03	21.06	PASS
		8	7	21.95	20.99	PASS
		15	0	22.00	20.96	PASS
	HCH	1	0	23.20	22.09	PASS
		1	7	23.11	21.99	PASS
		1	14	23.04	21.95	PASS
		8	0	22.23	21.23	PASS
		8	4	22.20	21.21	PASS
		8	7	22.14	21.12	PASS
		15	0	22.11	21.05	PASS

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

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	22.94	21.95	PASS
		1	12	23.20	22.24	PASS
		1	24	23.31	22.29	PASS
		12	0	22.01	21.01	PASS
		12	6	22.04	20.96	PASS
		12	13	22.25	21.28	PASS
		25	0	22.16	21.21	PASS
	MCH	1	0	23.12	22.35	PASS
		1	12	23.10	22.26	PASS
		1	24	22.87	22.10	PASS
		12	0	22.10	21.12	PASS
		12	6	22.06	21.12	PASS
		12	13	21.98	21.03	PASS
		25	0	22.03	21.06	PASS
	HCH	1	0	23.31	22.33	PASS
		1	12	23.23	22.28	PASS
		1	24	23.06	22.04	PASS
		12	0	22.22	21.23	PASS
		12	6	22.21	21.24	PASS
		12	13	22.10	21.13	PASS
		25	0	22.19	21.26	PASS

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

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	22.95	22.13	PASS
		1	24	23.41	22.64	PASS
		1	49	23.73	22.91	PASS
		25	0	22.14	21.15	PASS
		25	12	22.13	21.17	PASS
		25	25	22.57	21.61	PASS
		50	0	22.40	21.40	PASS
	MCH	1	0	23.34	22.54	PASS
		1	24	23.14	22.31	PASS
		1	49	22.85	22.08	PASS
		25	0	22.20	21.24	PASS
		25	12	22.18	21.27	PASS
		25	25	21.99	21.00	PASS
		50	0	22.08	21.12	PASS
	HCH	1	0	23.48	22.42	PASS
		1	24	23.37	22.33	PASS
		1	49	23.04	22.00	PASS
		25	0	22.48	21.55	PASS
		25	12	22.46	21.54	PASS
		25	25	22.29	21.33	PASS
		50	0	22.35	21.35	PASS

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

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	22.89	22.06	PASS
		1	37	23.64	22.83	PASS
		1	74	23.86	23.13	PASS
		37	0	22.55	22.55	PASS
		37	18	22.56	22.58	PASS
		37	38	22.59	22.58	PASS
		75	0	22.54	21.50	PASS
	MCH	1	0	23.44	22.77	PASS
		1	37	23.02	22.34	PASS
		1	74	22.80	22.10	PASS
		37	0	22.13	22.13	PASS
		37	18	22.13	22.12	PASS
		37	38	22.12	22.13	PASS
		75	0	22.12	21.09	PASS
	HCH	1	0	23.32	22.20	PASS
		1	37	23.47	22.38	PASS
		1	74	22.96	21.87	PASS
		37	0	22.49	22.50	PASS
		37	18	22.50	22.49	PASS
		37	38	22.53	22.52	PASS
		75	0	22.52	21.50	PASS

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

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	22.78	21.82	PASS
		1	49	24.02	23.10	PASS
		1	99	23.69	22.73	PASS
		50	0	22.41	21.42	PASS
		50	25	22.42	21.44	PASS
		50	50	22.82	21.87	PASS
		100	0	22.64	21.64	PASS
	MCH	1	0	23.58	22.75	PASS
		1	49	23.16	22.37	PASS
		1	99	22.74	21.93	PASS
		50	0	22.14	21.19	PASS
		50	25	22.17	21.22	PASS
		50	50	21.92	20.95	PASS
		100	0	21.99	21.05	PASS
	HCH	1	0	22.77	21.93	PASS
		1	49	23.52	22.65	PASS
		1	99	22.64	21.78	PASS
		50	0	22.45	21.53	PASS
		50	25	22.44	21.54	PASS
		50	50	22.34	21.44	PASS
		100	0	22.43	21.45	PASS

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

B.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	5.2	<13	PASS
	MCH	5.26	<13	PASS
	HCH	4.5	<13	PASS
16QAM	LCH	6.01	<13	PASS
	MCH	6.22	<13	PASS
	HCH	5.43	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.18	<13	PASS
	MCH	5.32	<13	PASS
	HCH	4.62	<13	PASS
16QAM	LCH	6.14	<13	PASS
	MCH	6.23	<13	PASS
	HCH	5.63	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.19	<13	PASS
	MCH	5.38	<13	PASS
	HCH	4.84	<13	PASS
16QAM	LCH	5.99	<13	PASS
	MCH	6.23	<13	PASS
	HCH	5.72	<13	PASS

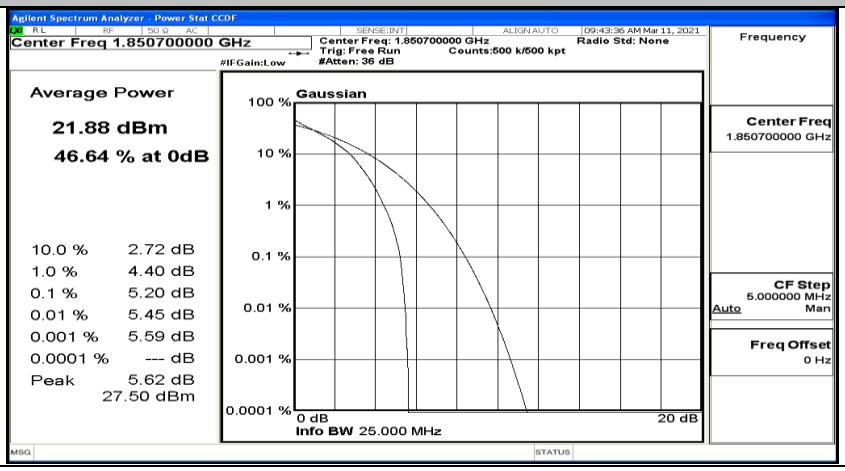
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.13	<13	PASS
	MCH	5.39	<13	PASS
	HCH	4.99	<13	PASS
16QAM	LCH	5.97	<13	PASS
	MCH	6.25	<13	PASS
	HCH	5.91	<13	PASS

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

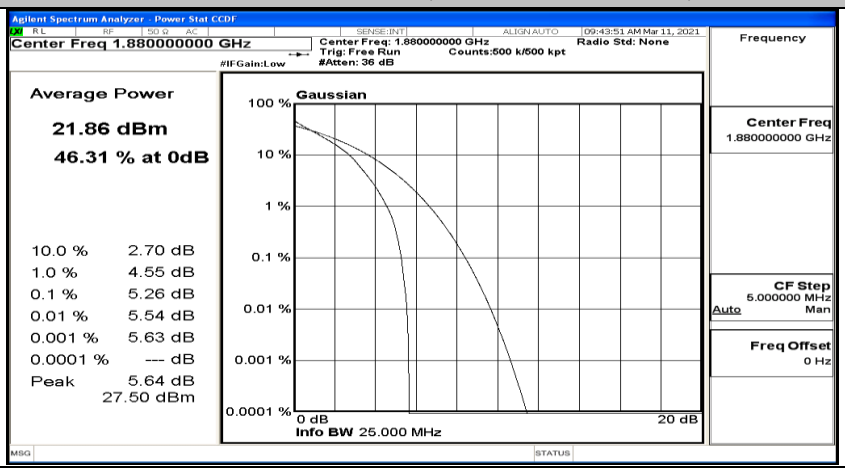
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.46	<13	PASS
	MCH	5.71	<13	PASS
	HCH	5.35	<13	PASS
16QAM	LCH	6.16	<13	PASS
	MCH	6.39	<13	PASS
	HCH	6.1	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.35	<13	PASS
	MCH	5.6	<13	PASS
	HCH	5.38	<13	PASS
16QAM	LCH	6.16	<13	PASS
	MCH	6.37	<13	PASS
	HCH	6.16	<13	PASS

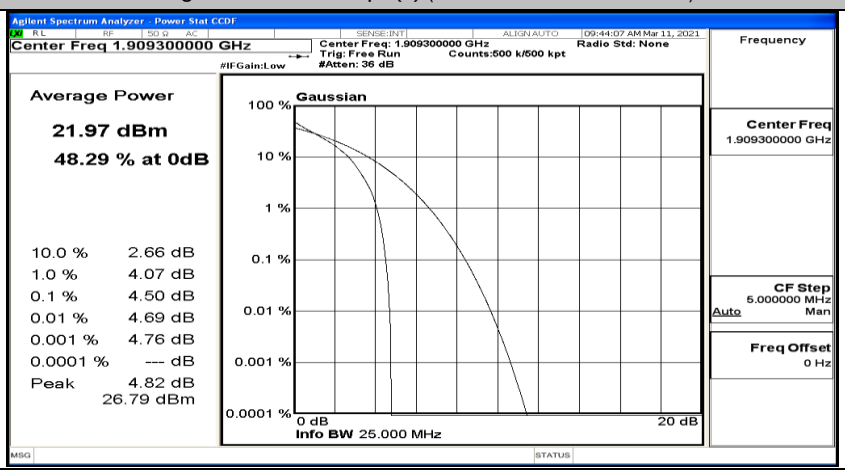
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



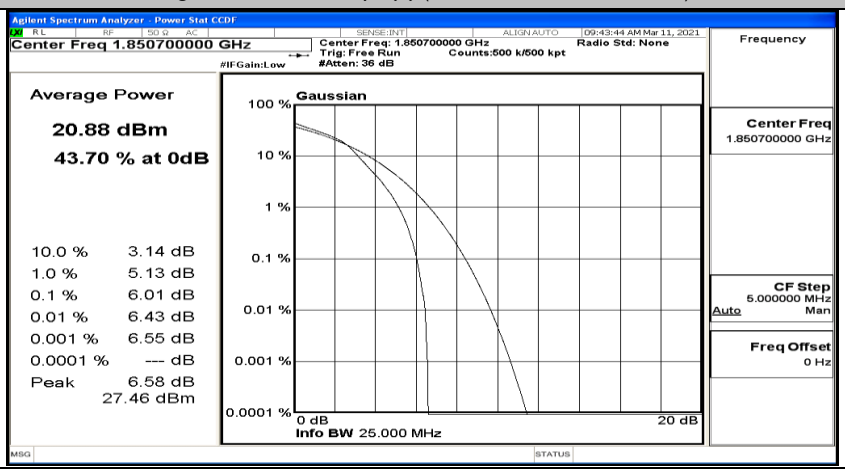
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



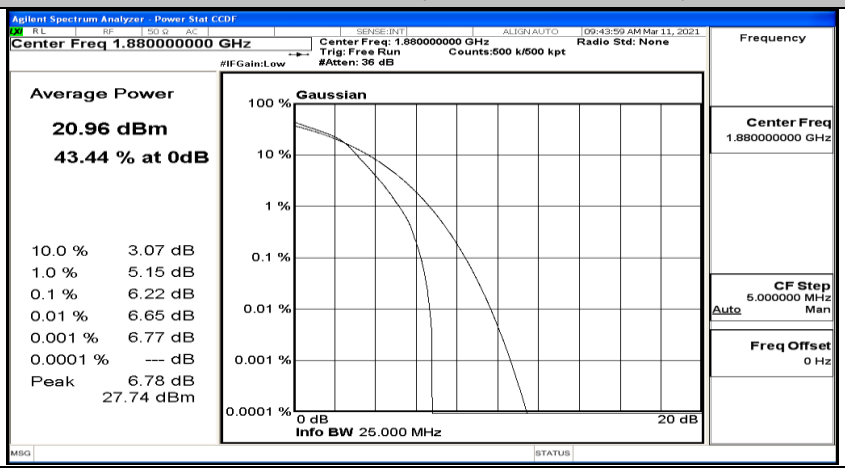
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



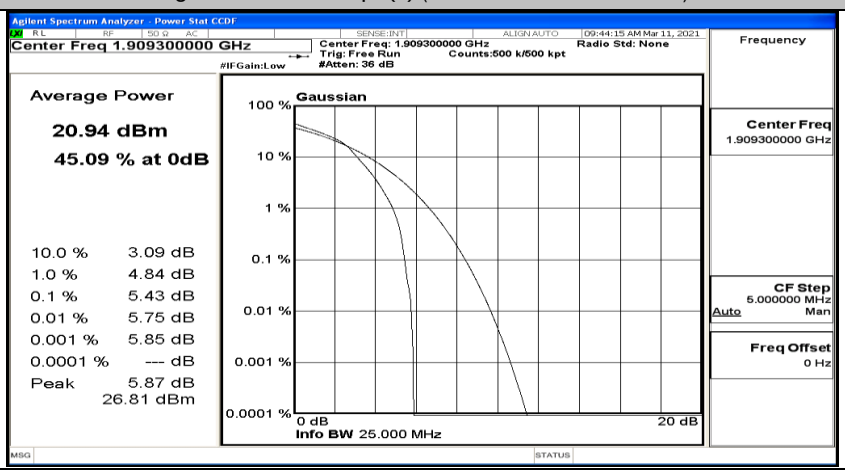
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



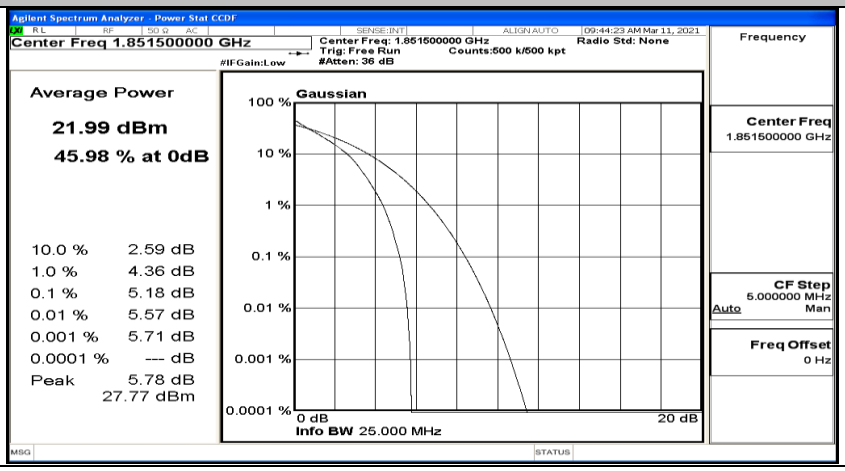
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



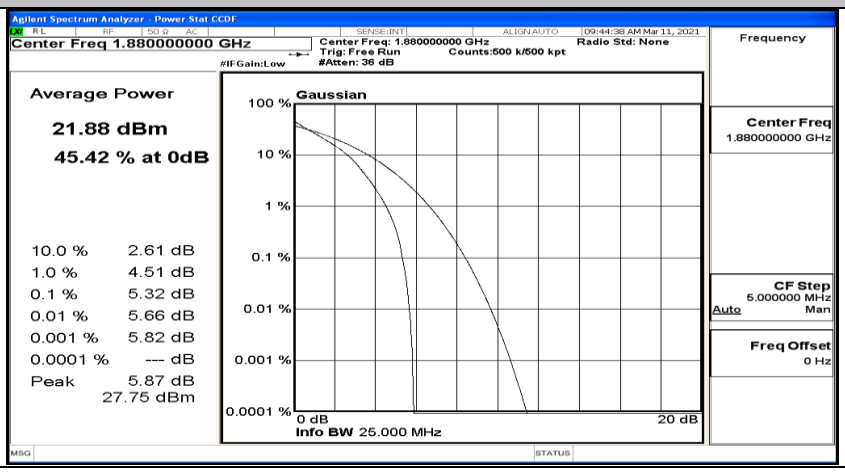
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



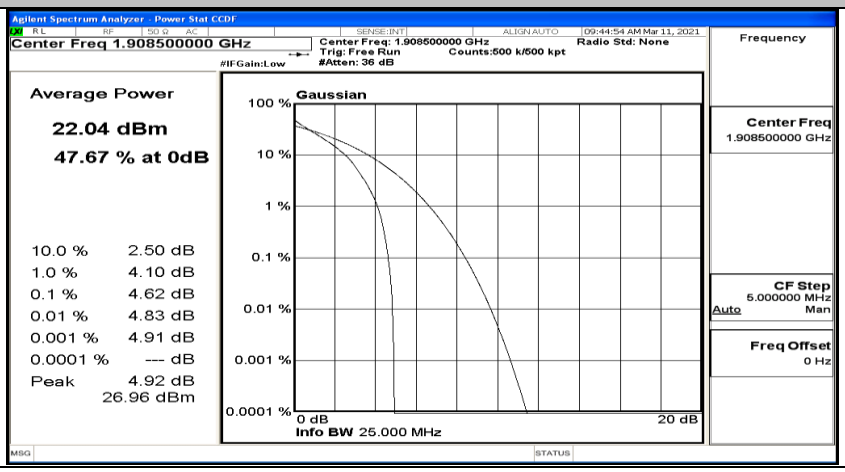
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



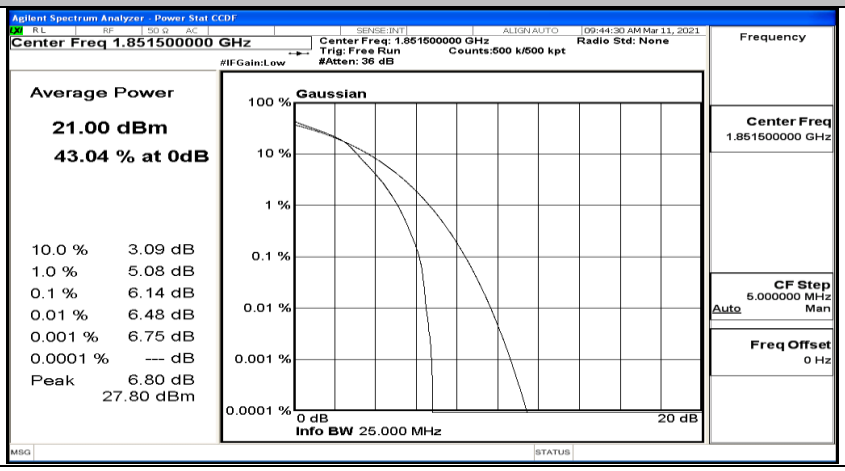
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



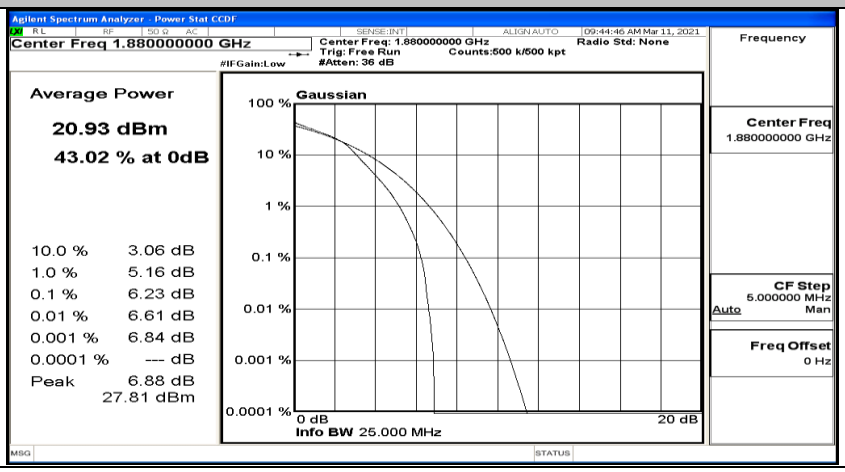
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



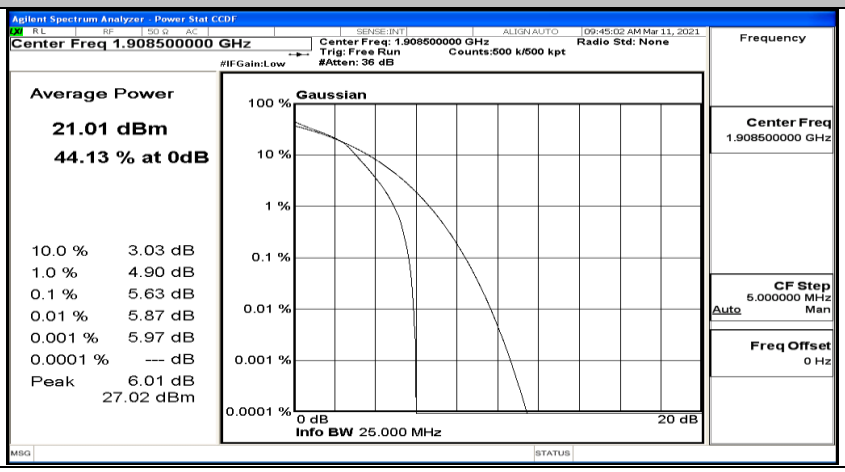
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



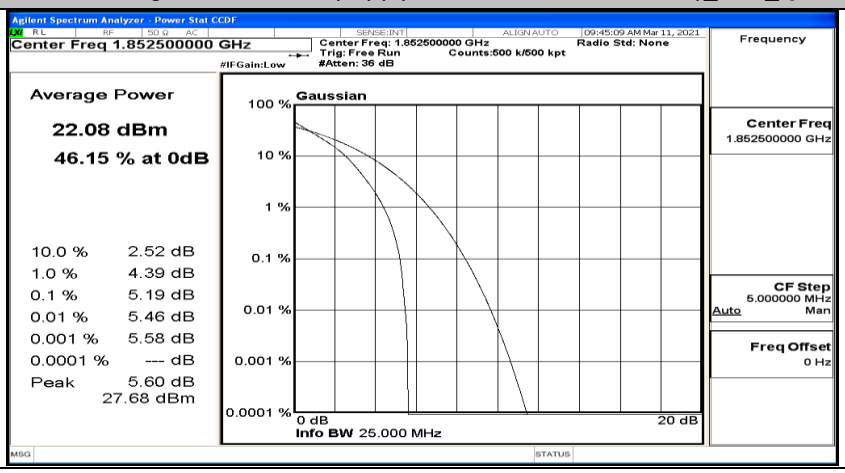
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



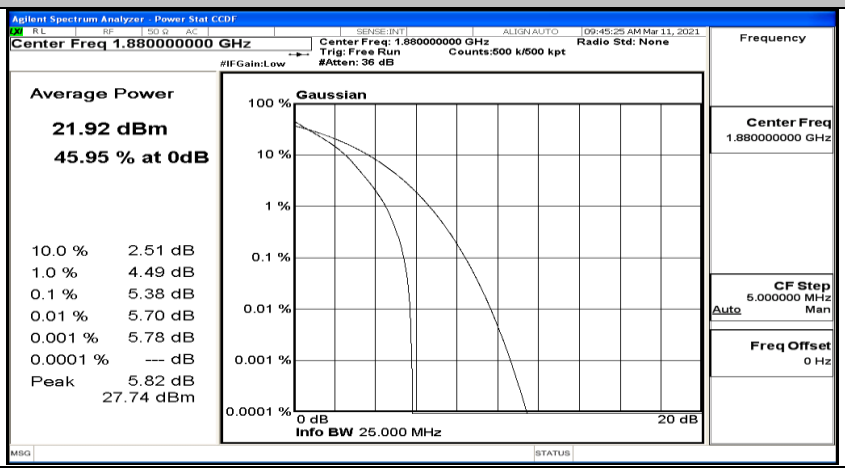
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



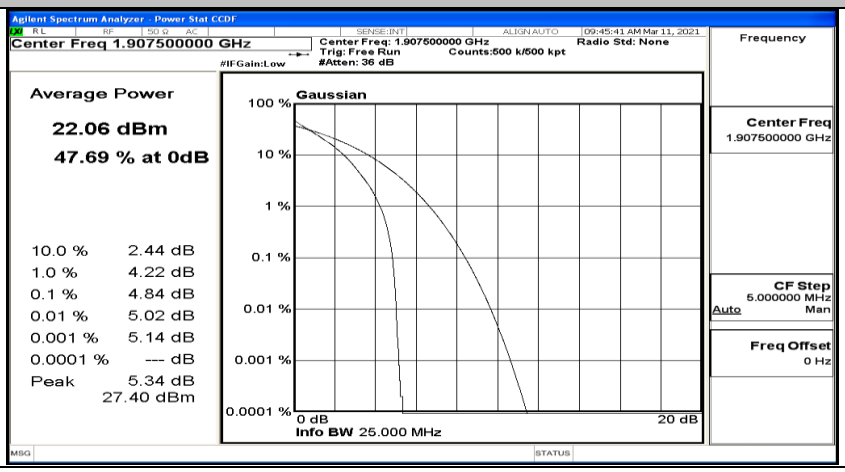
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



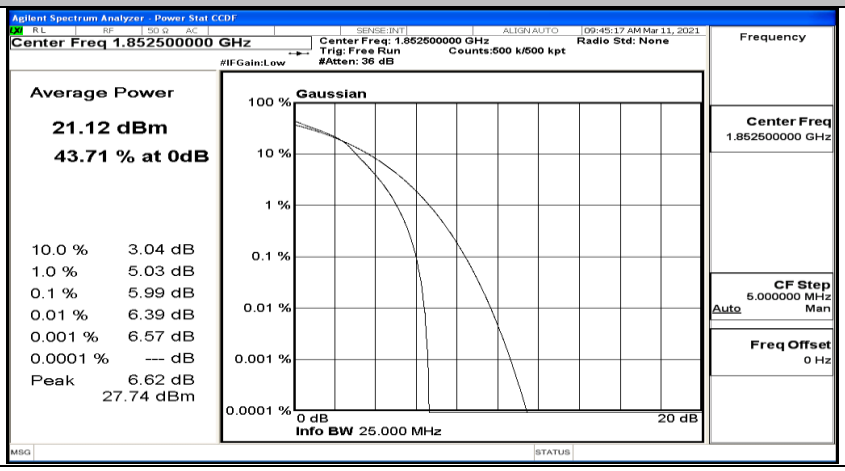
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



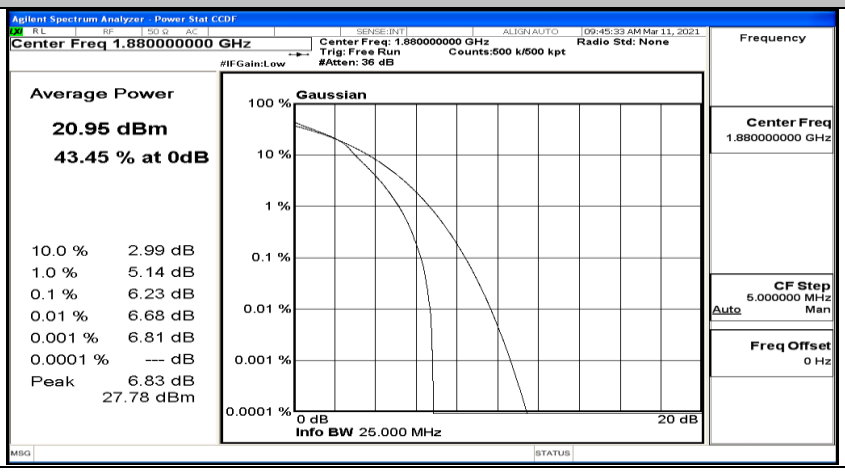
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



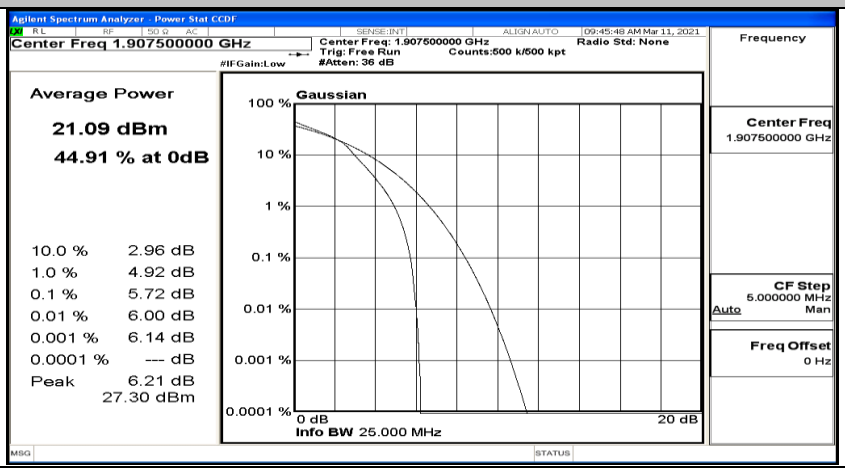
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



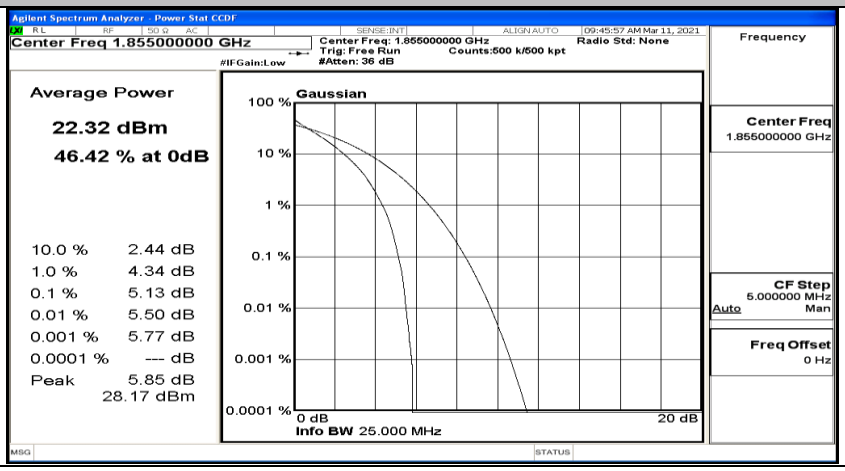
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



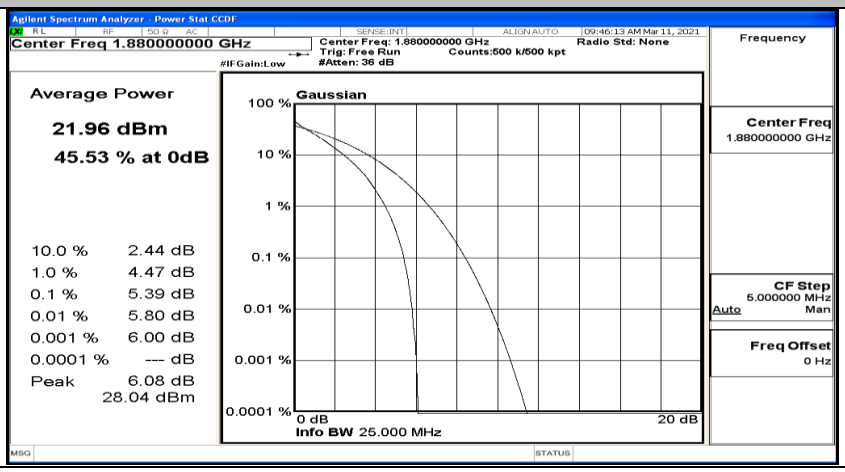
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



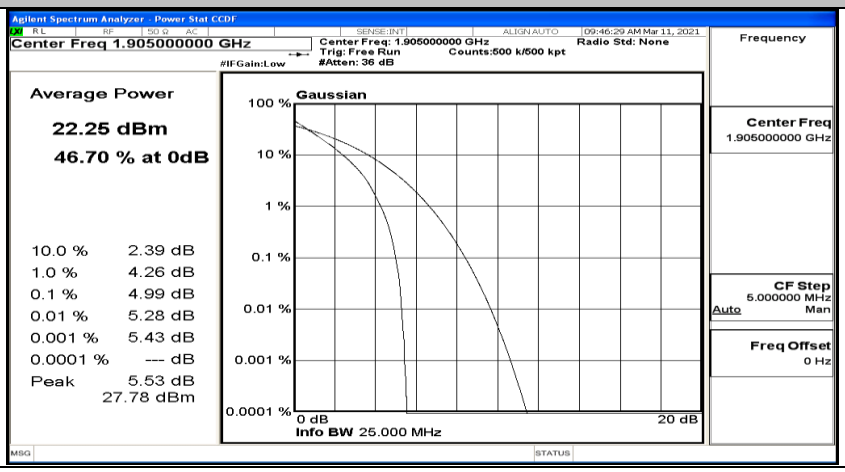
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



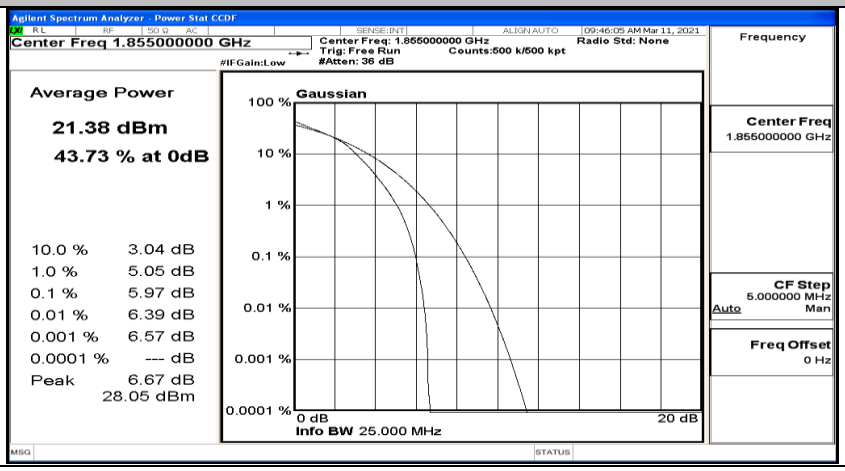
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



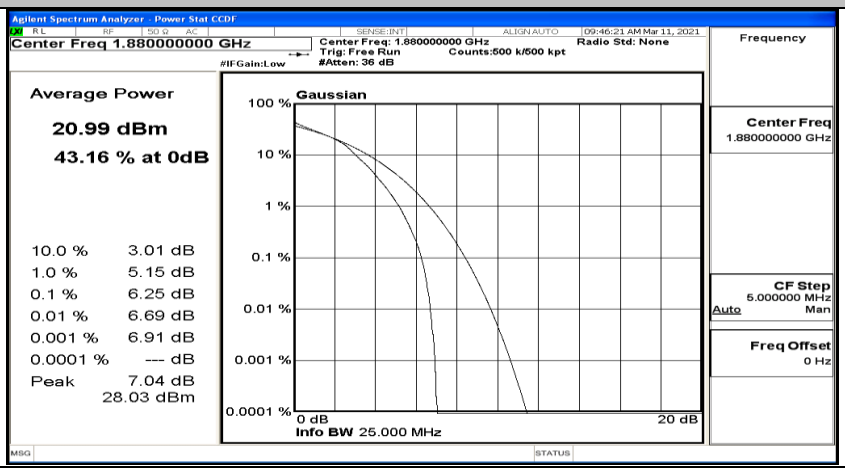
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



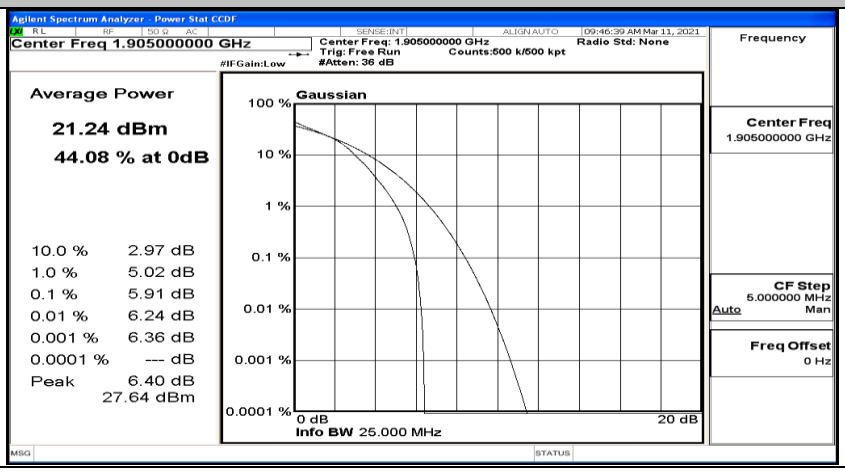
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



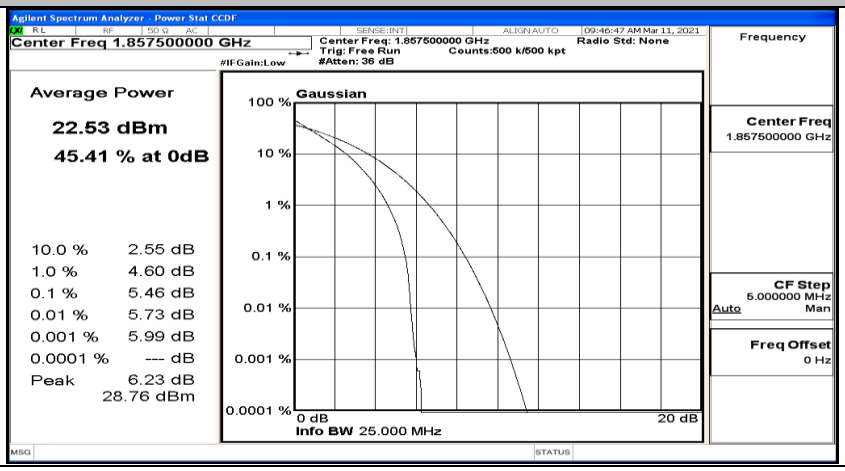
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



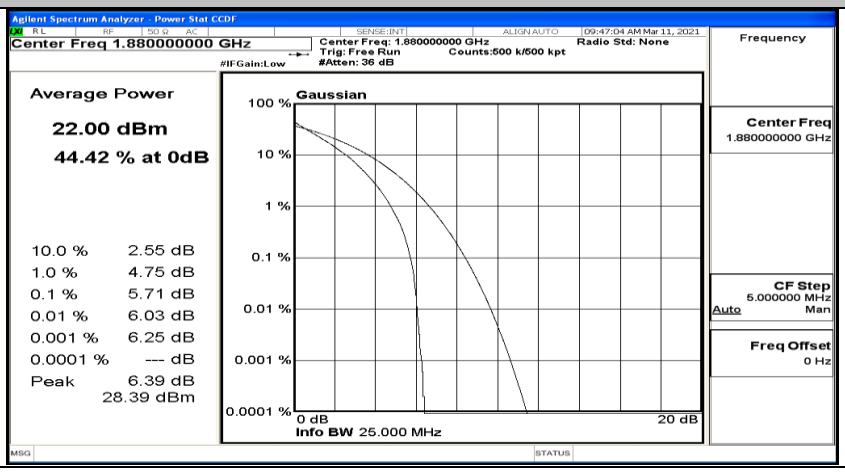
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



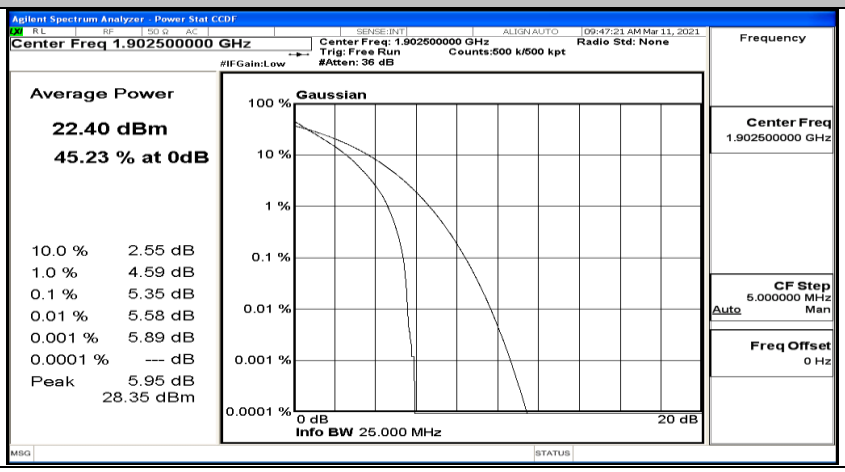
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



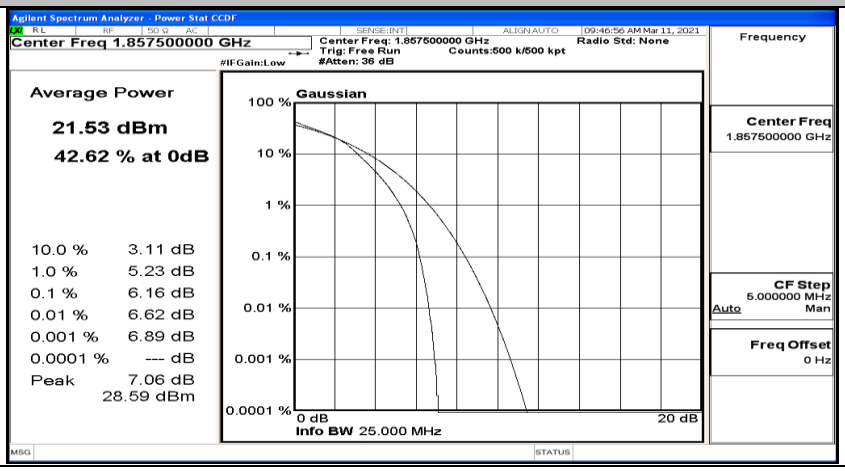
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



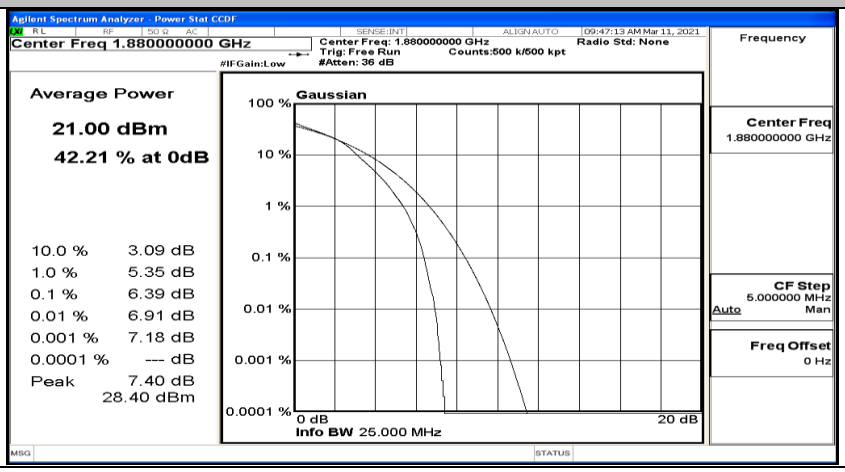
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



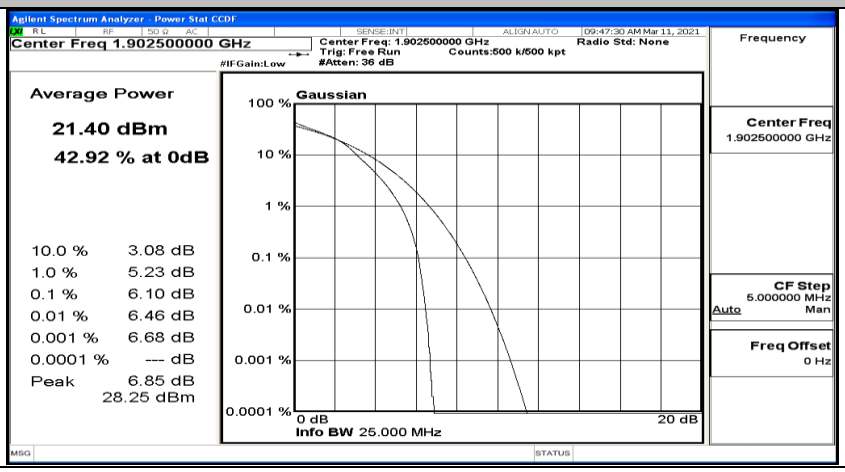
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



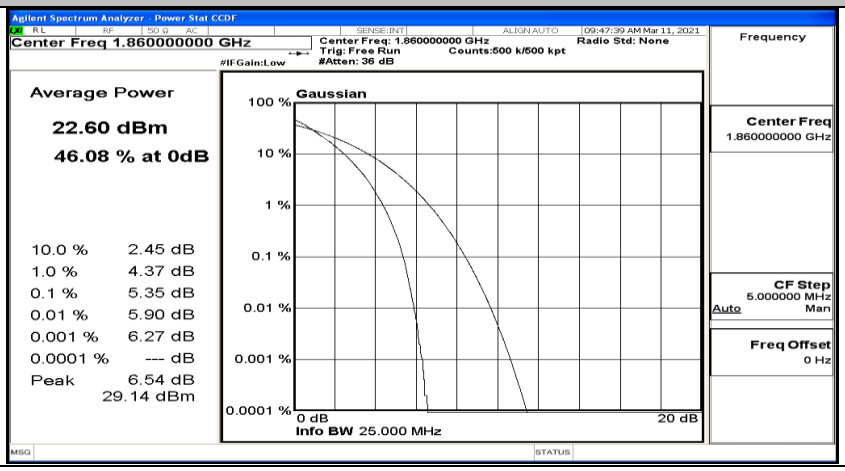
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



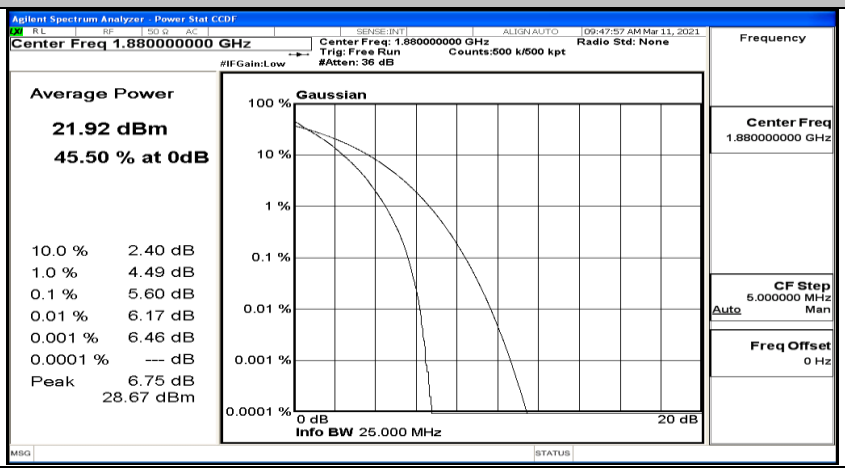
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



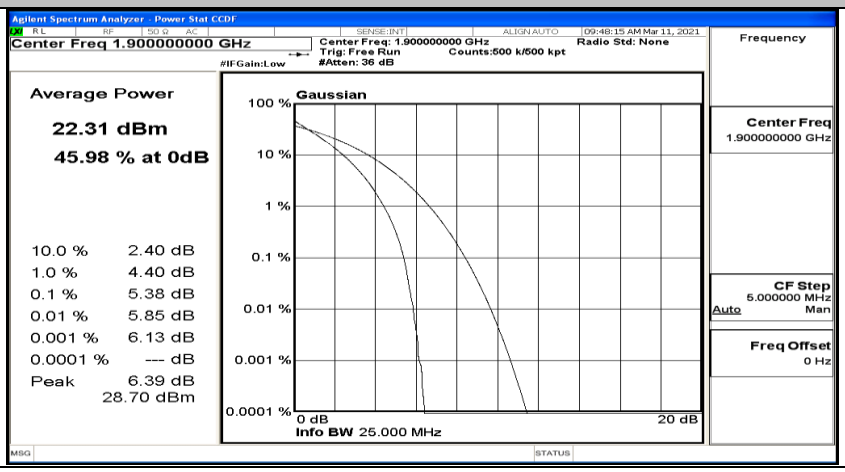
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



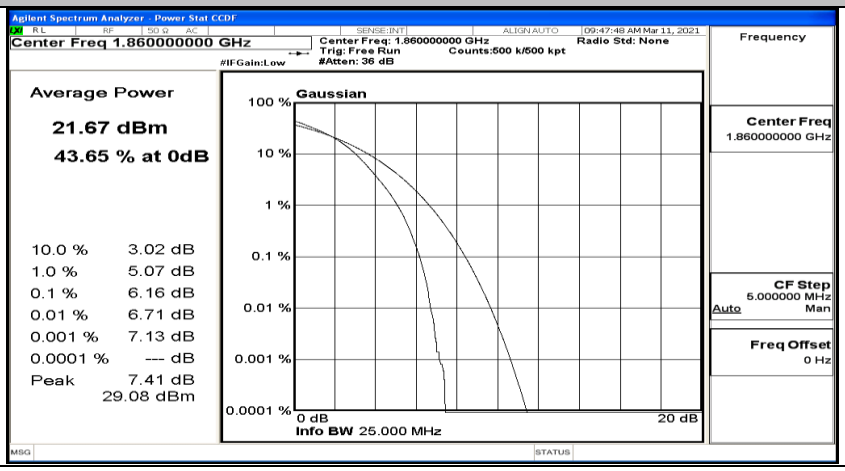
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



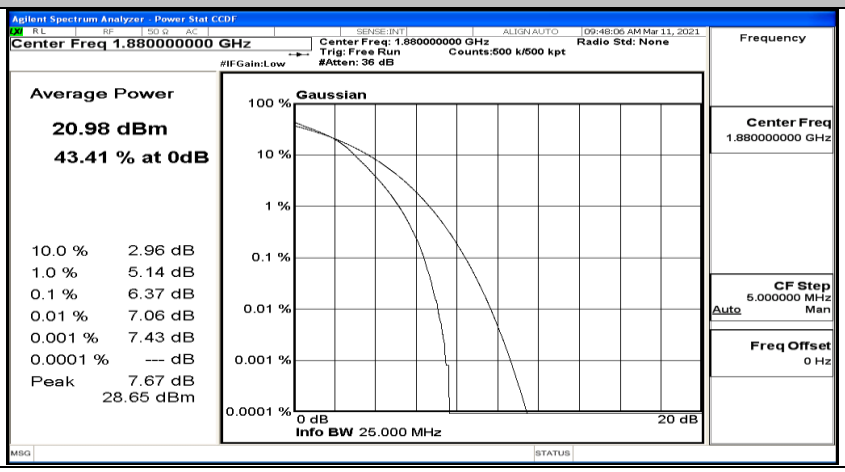
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



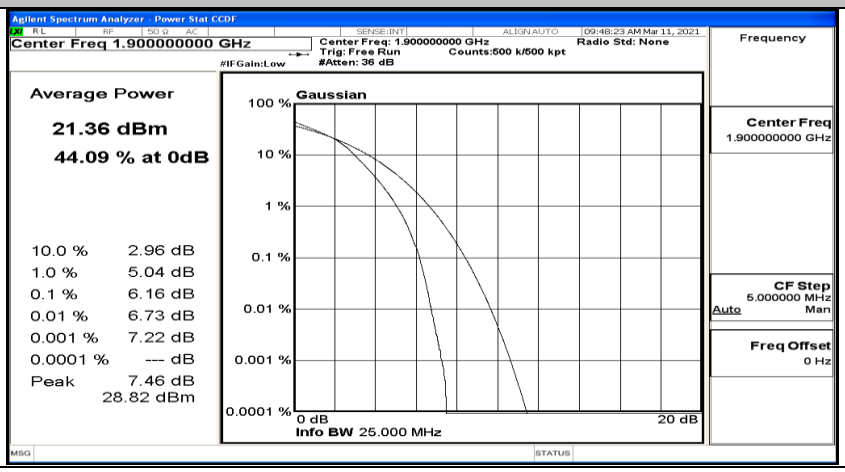
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



B.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	1.0777	1.200	PASS
	MCH	1.0831	1.233	PASS
	HCH	1.0777	1.221	PASS
16QAM	LCH	1.0751	1.256	PASS
	MCH	1.0798	1.226	PASS
	HCH	1.0781	1.203	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6789	2.814	PASS
	MCH	2.6851	2.841	PASS
	HCH	2.6784	2.829	PASS
16QAM	LCH	2.6781	2.811	PASS
	MCH	2.6803	2.825	PASS
	HCH	2.6834	2.817	PASS

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4734	4.765	PASS
	MCH	4.4668	4.748	PASS
	HCH	4.4724	4.703	PASS
16QAM	LCH	4.4827	4.730	PASS
	MCH	4.4687	4.787	PASS
	HCH	4.4705	4.711	PASS

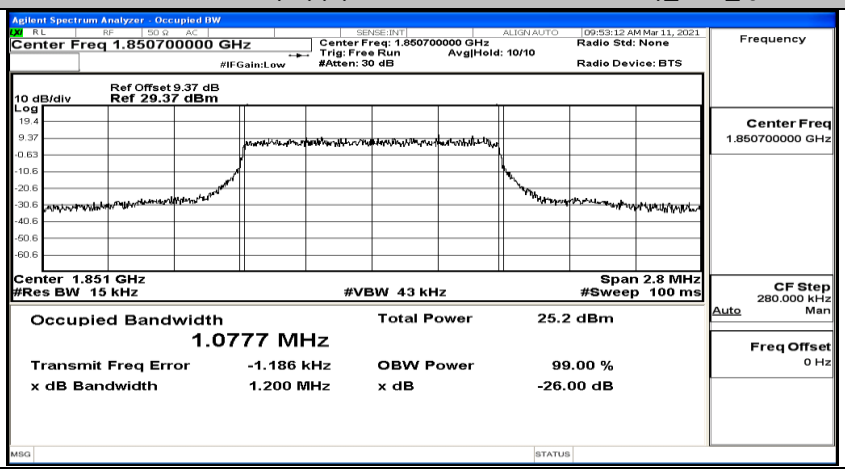
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9376	9.370	PASS
	MCH	8.9349	9.361	PASS
	HCH	8.9407	9.347	PASS
16QAM	LCH	8.9171	9.338	PASS
	MCH	8.9433	9.342	PASS
	HCH	8.9470	9.334	PASS

EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.369	14.01	PASS
	MCH	13.389	14.00	PASS
	HCH	13.412	13.96	PASS
16QAM	LCH	13.371	13.98	PASS
	MCH	13.397	13.98	PASS
	HCH	13.417	13.95	PASS

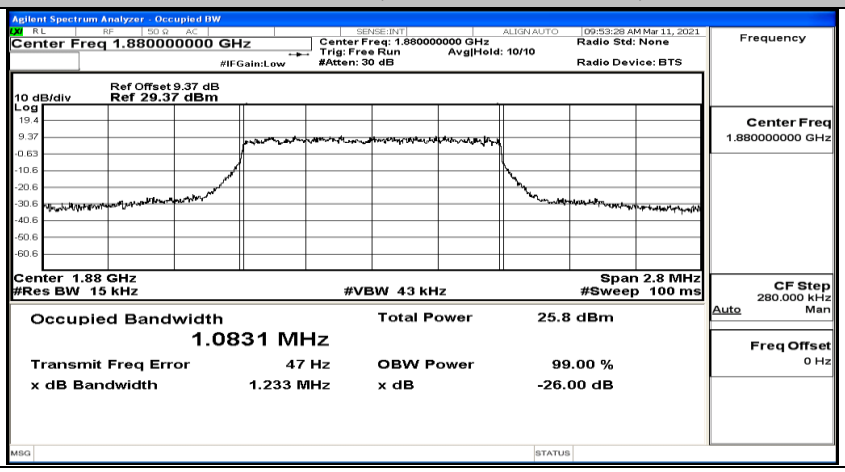
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.839	18.50	PASS
	MCH	17.829	18.57	PASS
	HCH	17.857	18.55	PASS
16QAM	LCH	17.811	18.52	PASS
	MCH	17.843	18.57	PASS
	HCH	17.858	18.52	PASS

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd.

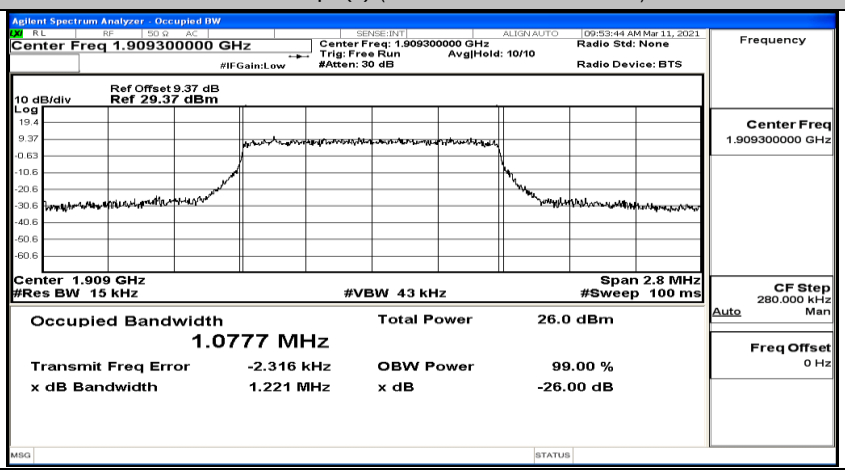
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



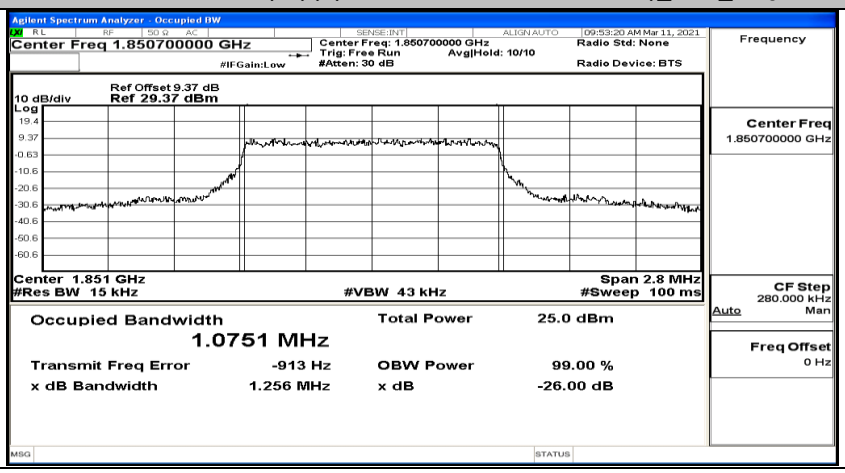
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



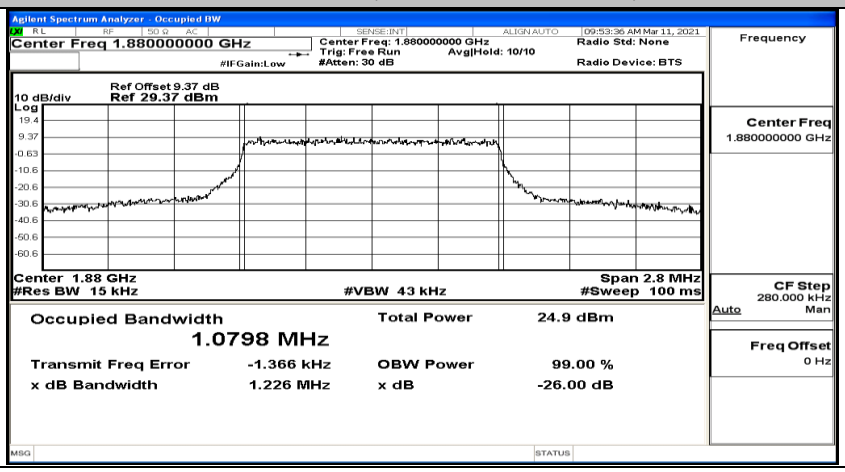
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



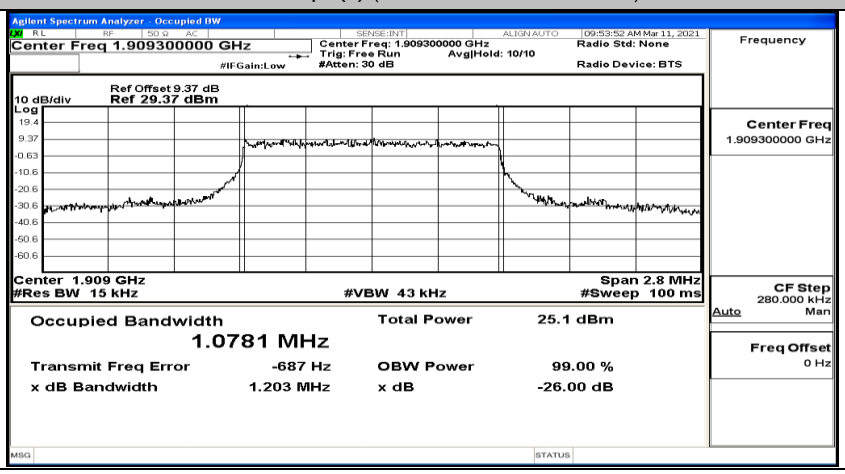
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



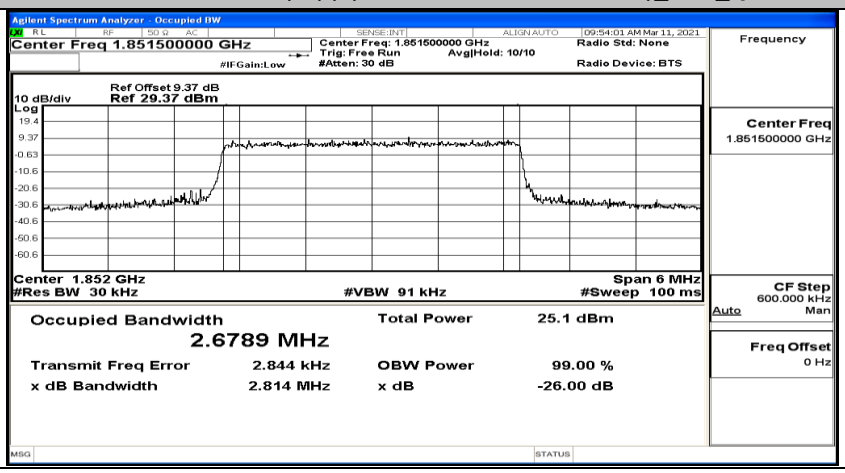
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



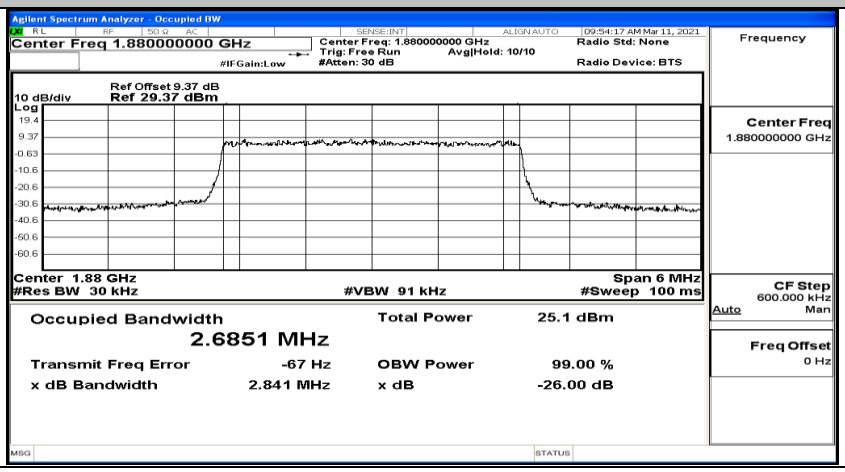
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



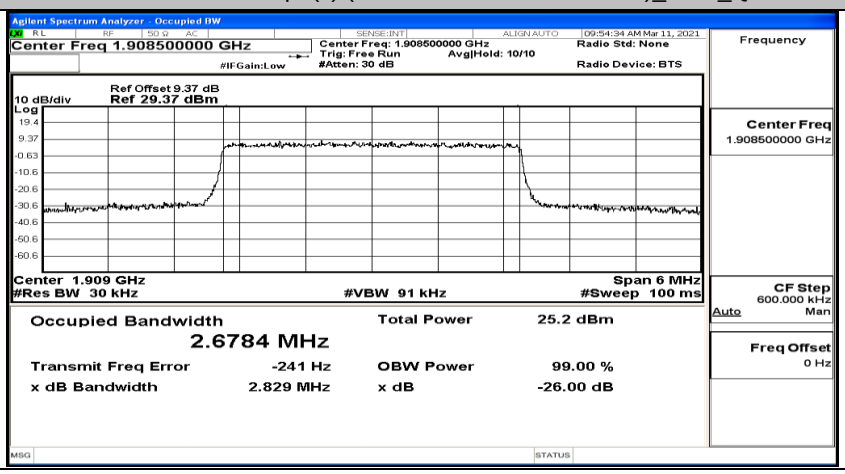
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



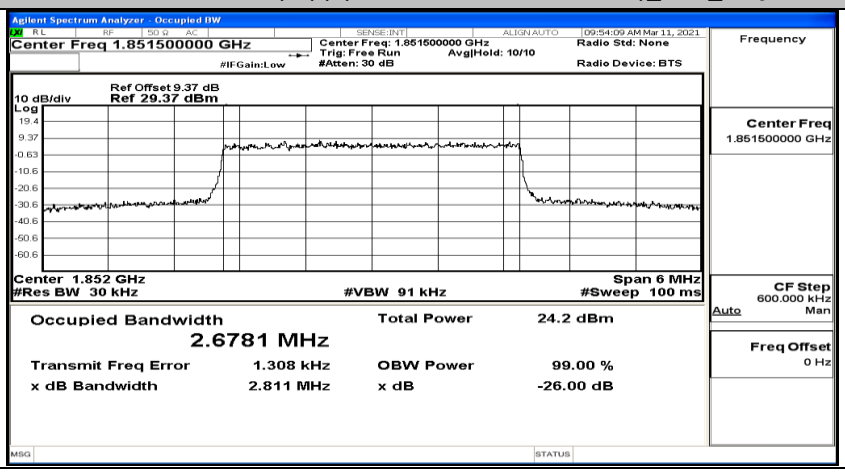
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



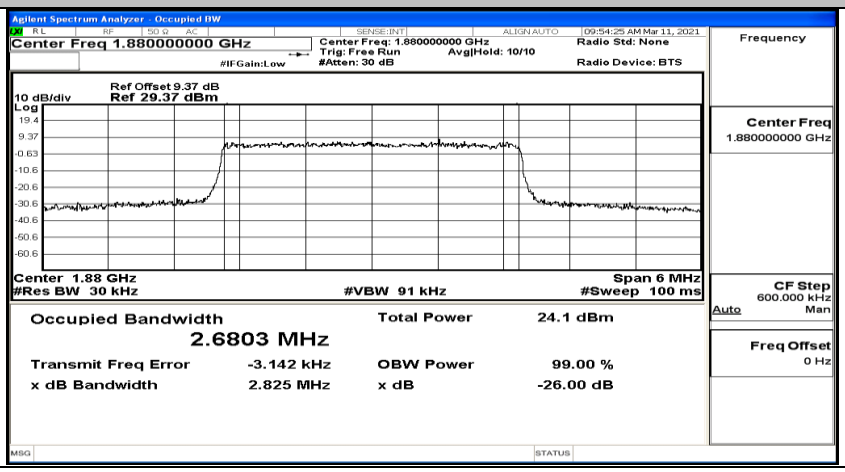
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



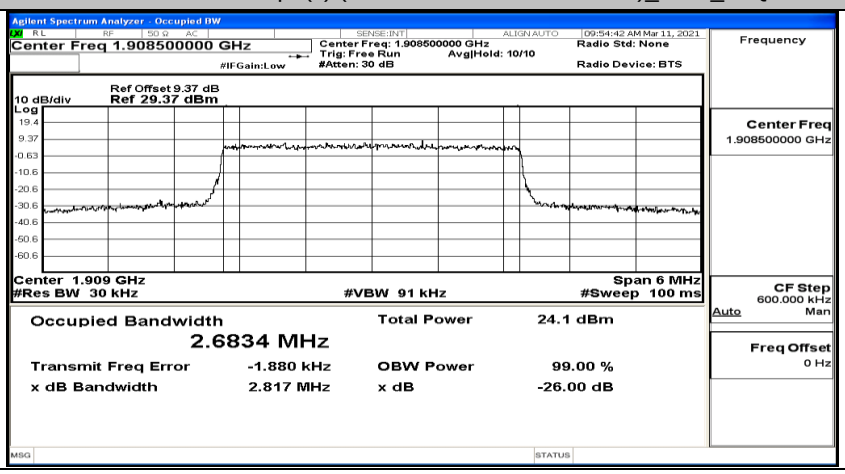
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



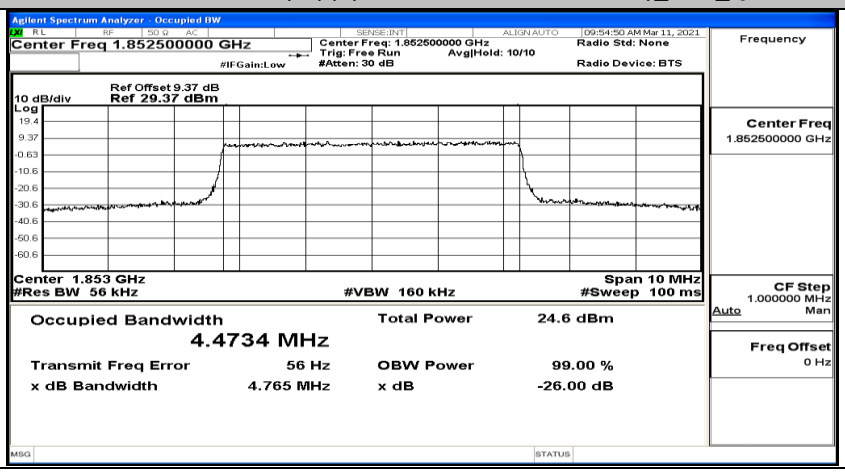
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



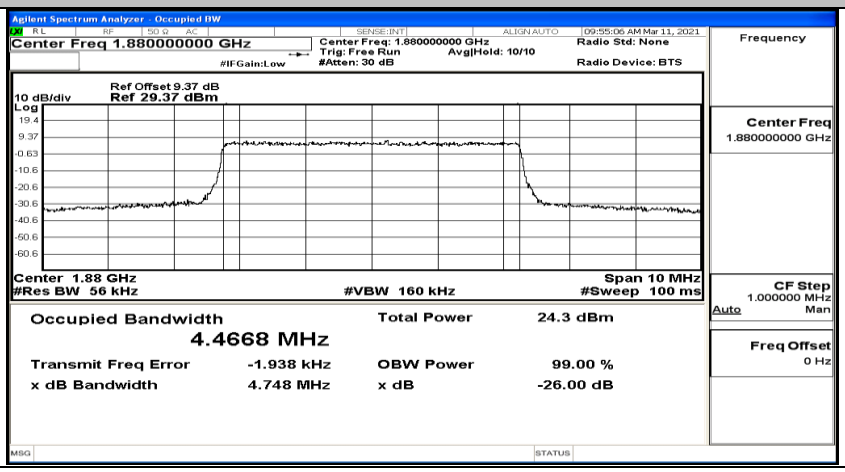
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



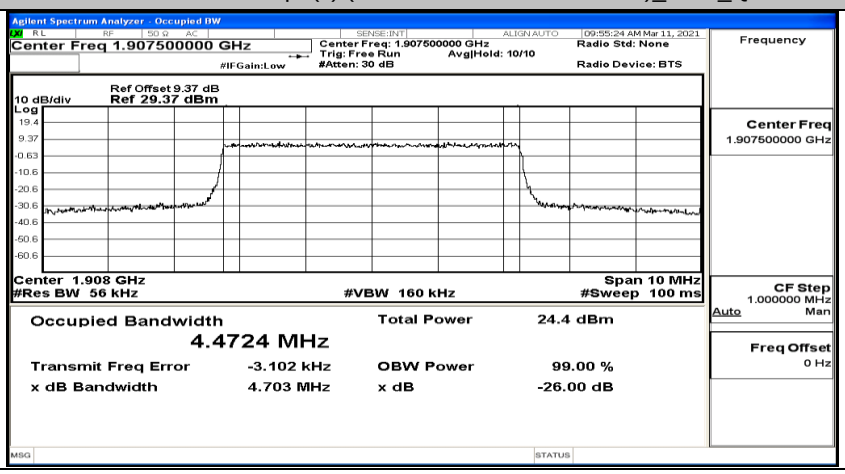
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



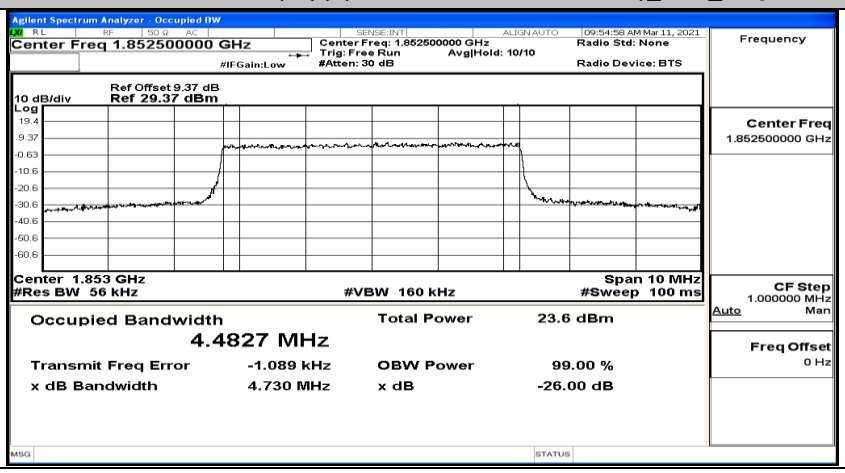
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



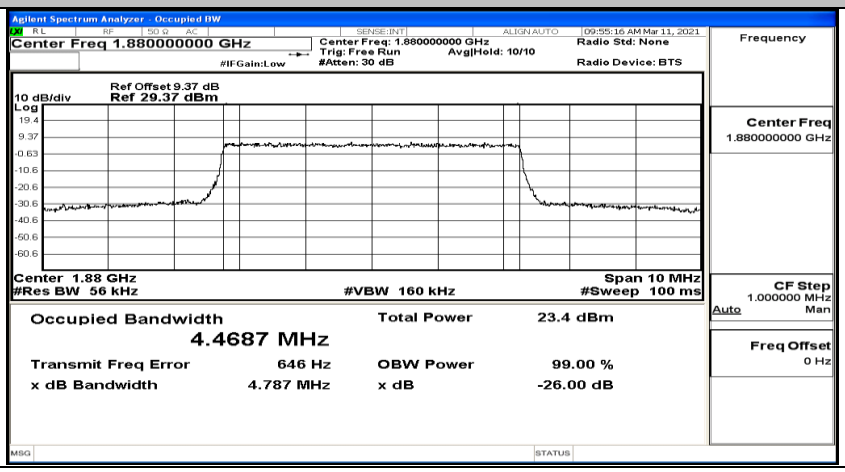
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



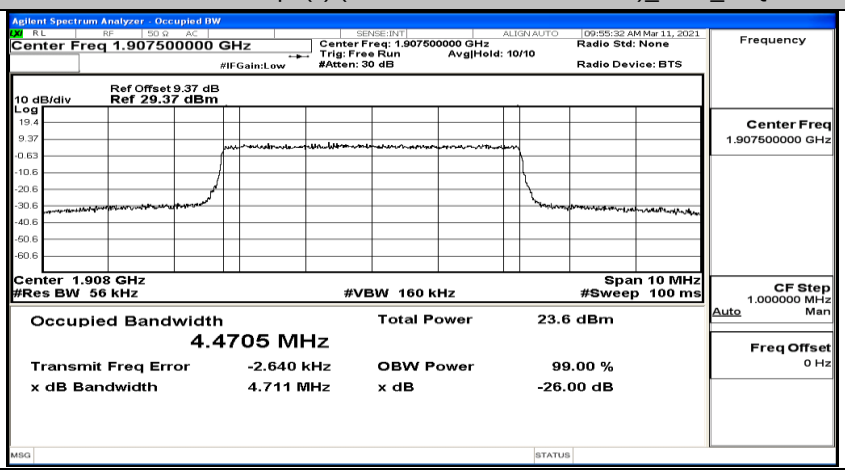
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



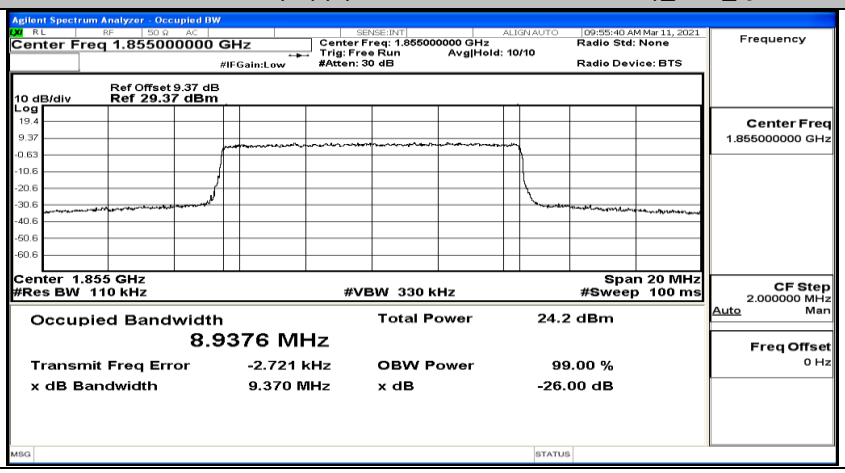
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



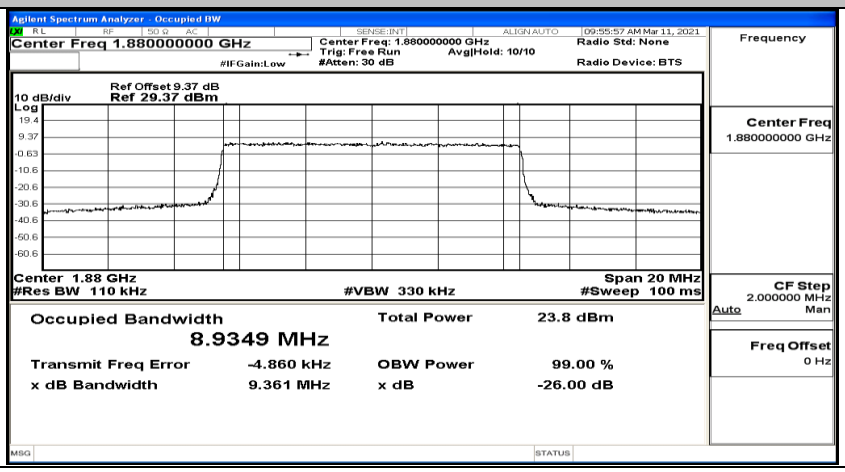
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



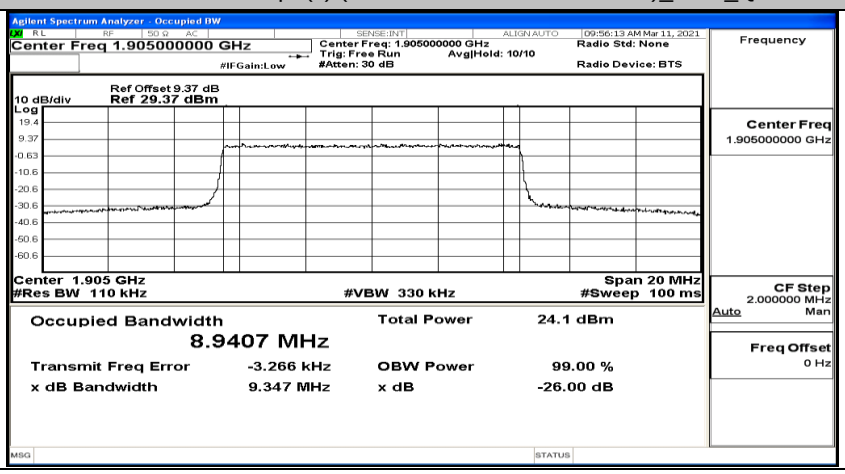
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



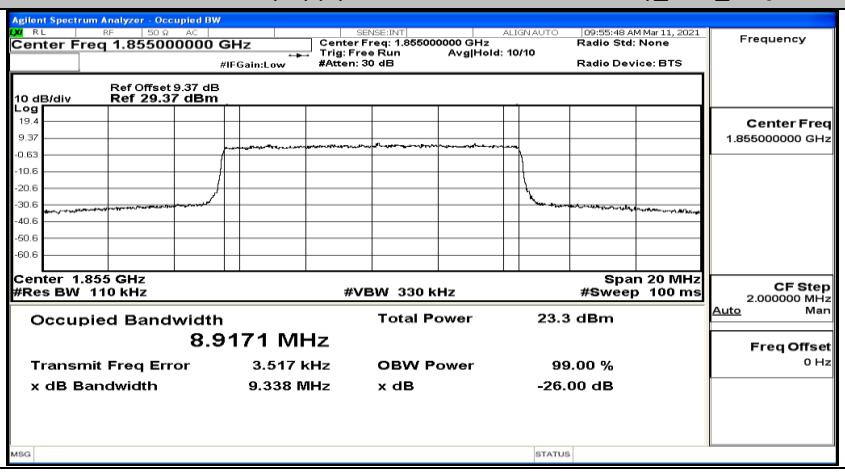
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



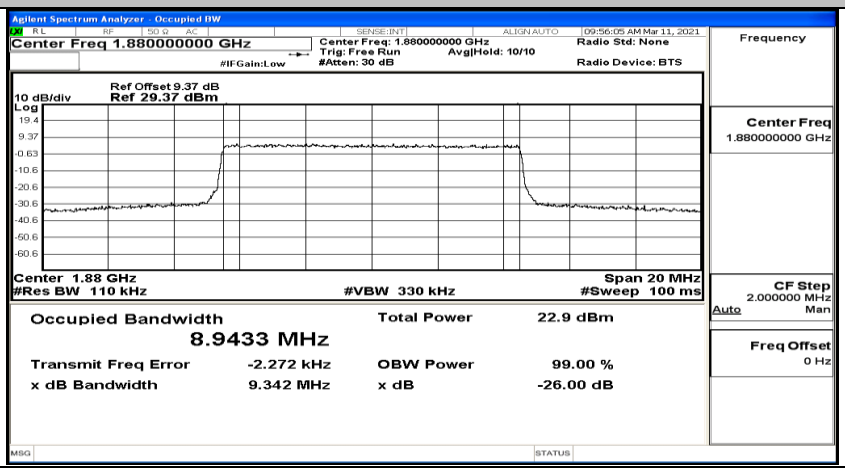
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



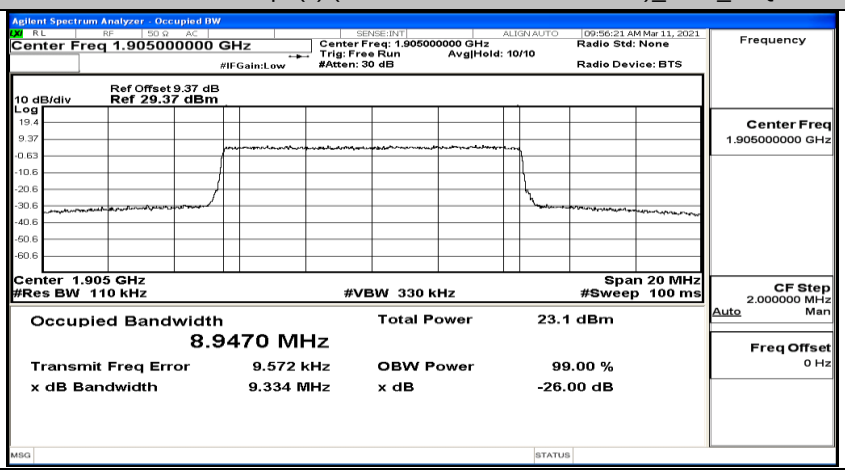
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



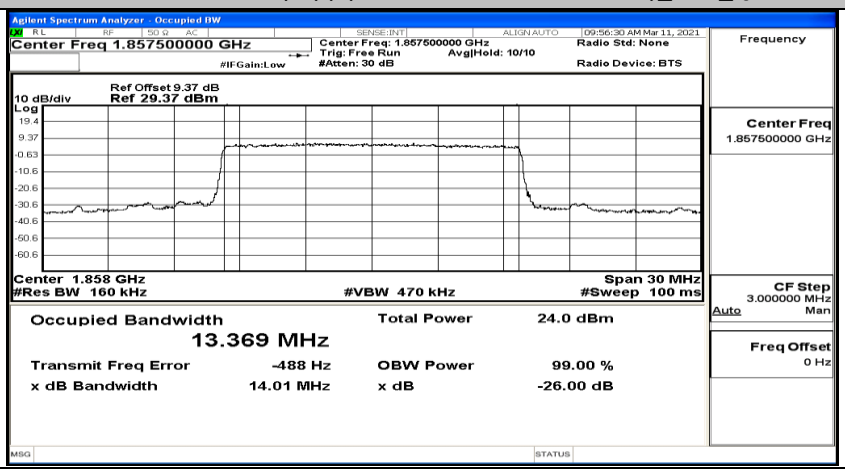
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



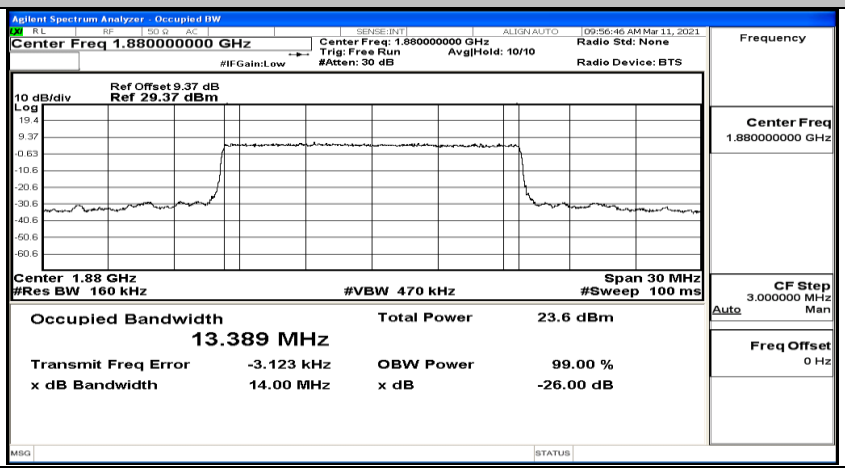
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



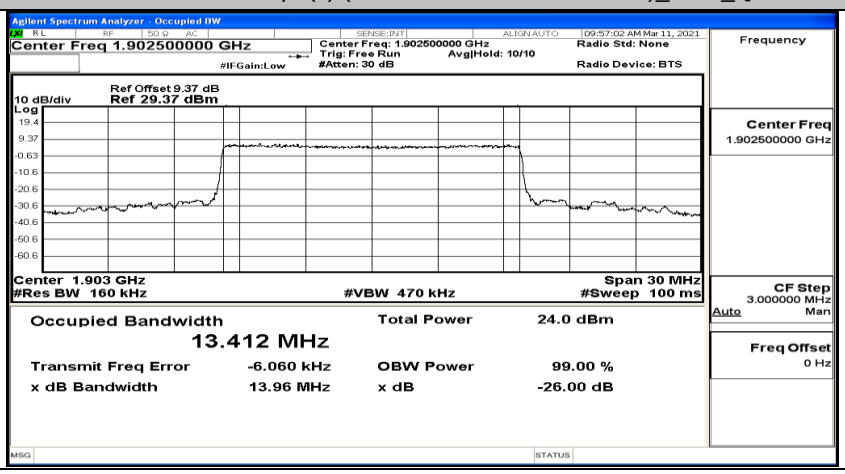
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



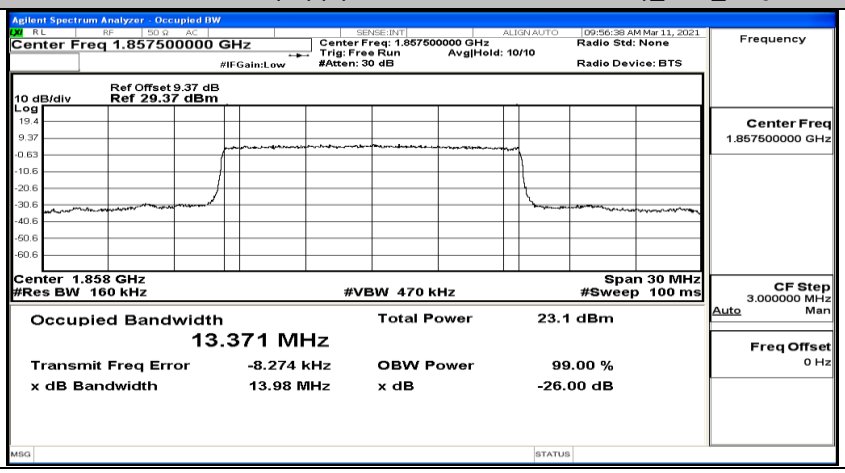
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



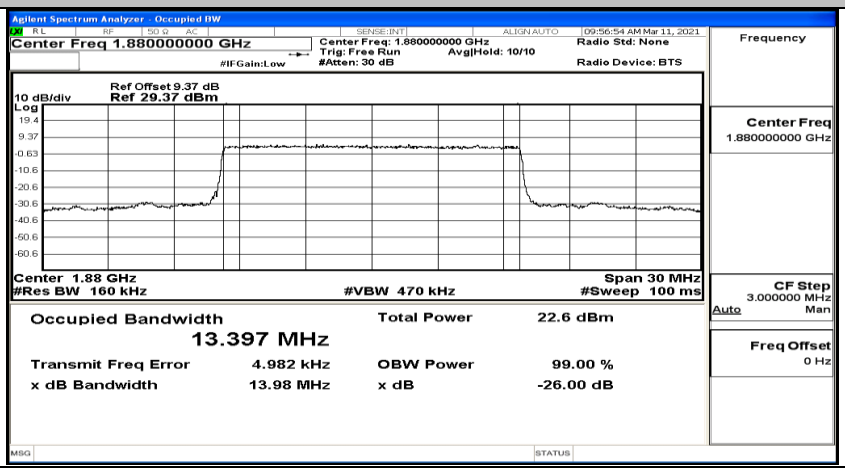
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



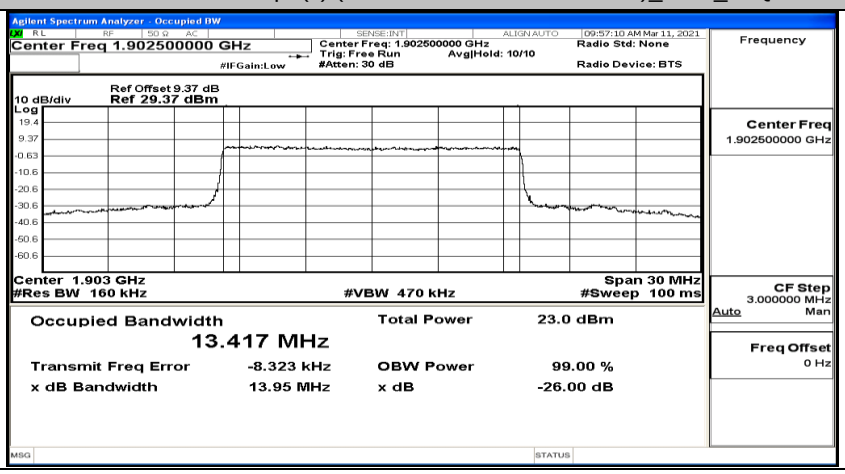
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



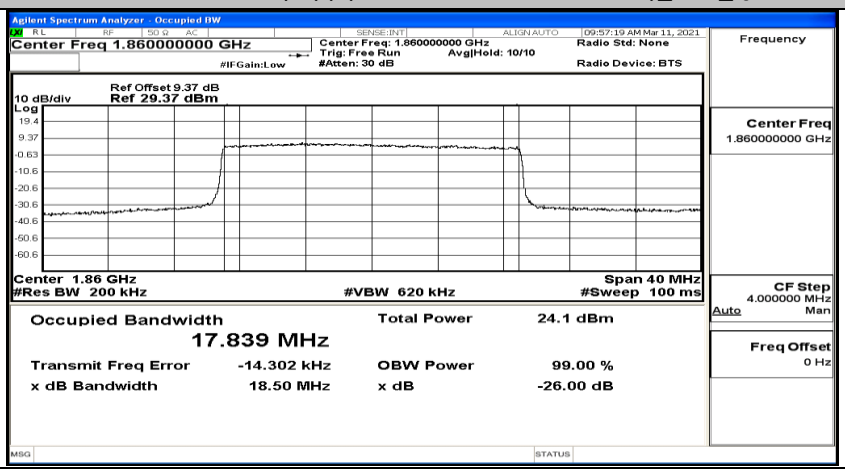
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



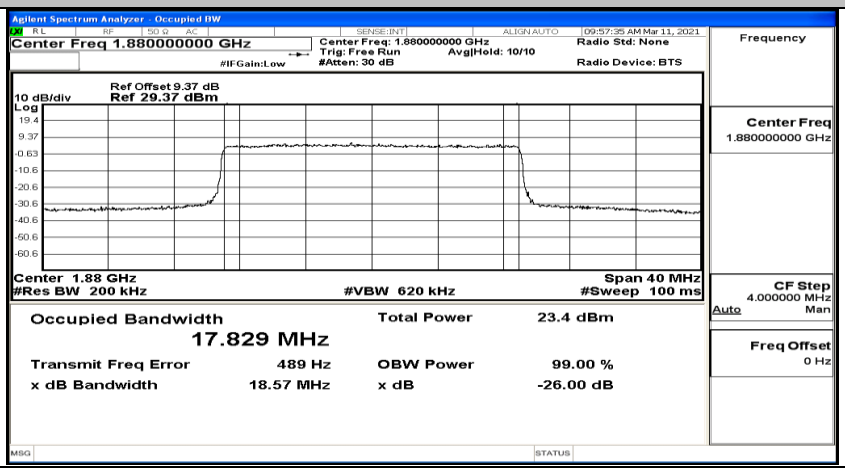
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



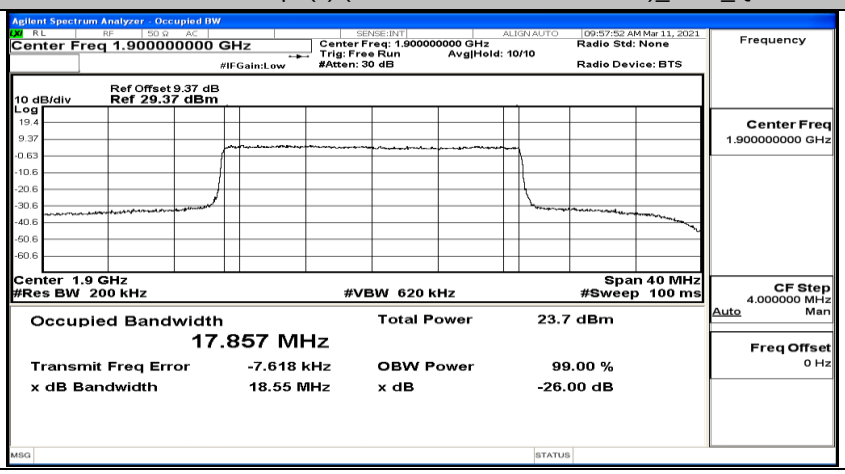
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



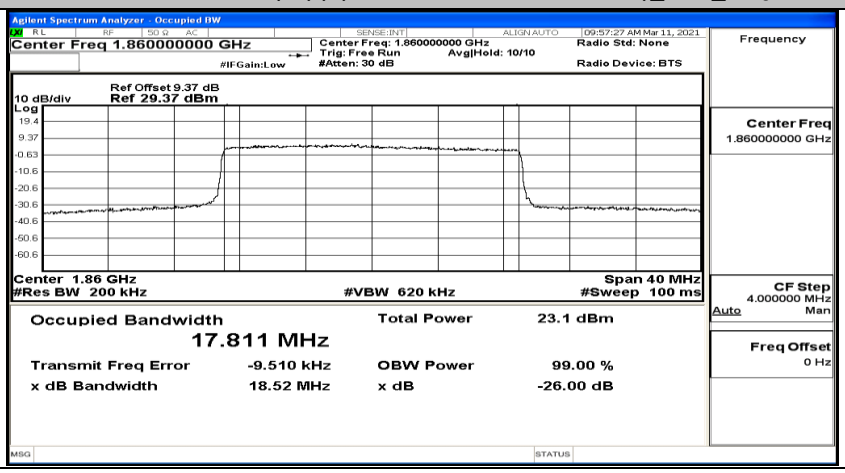
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



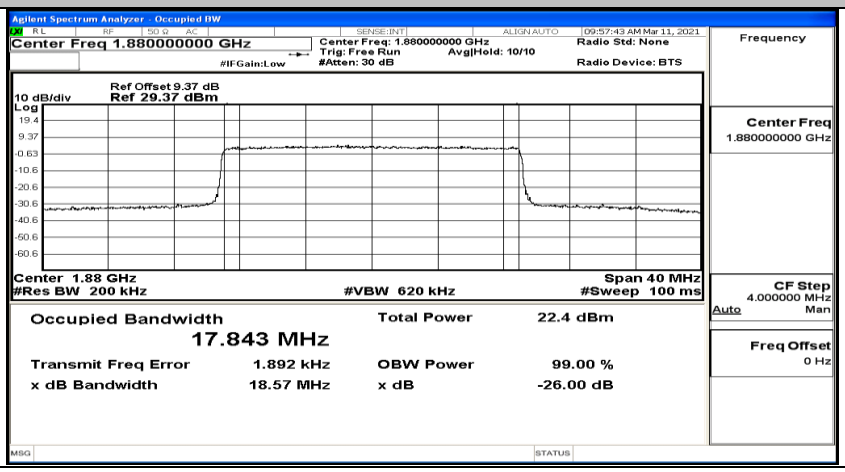
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



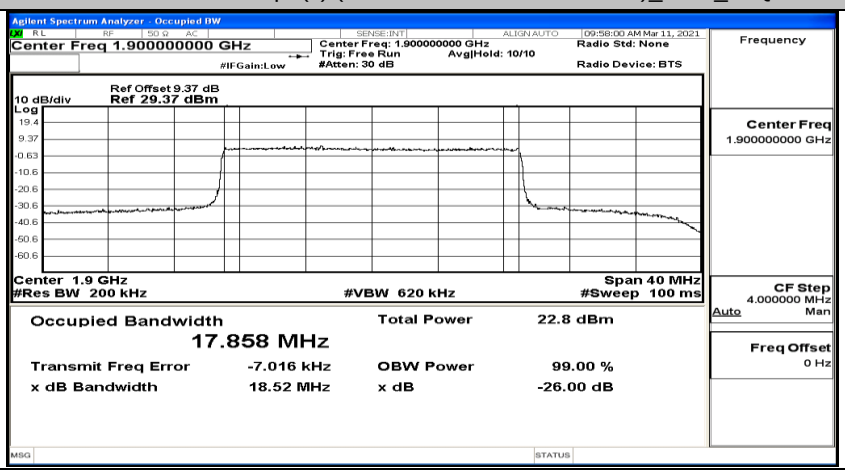
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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

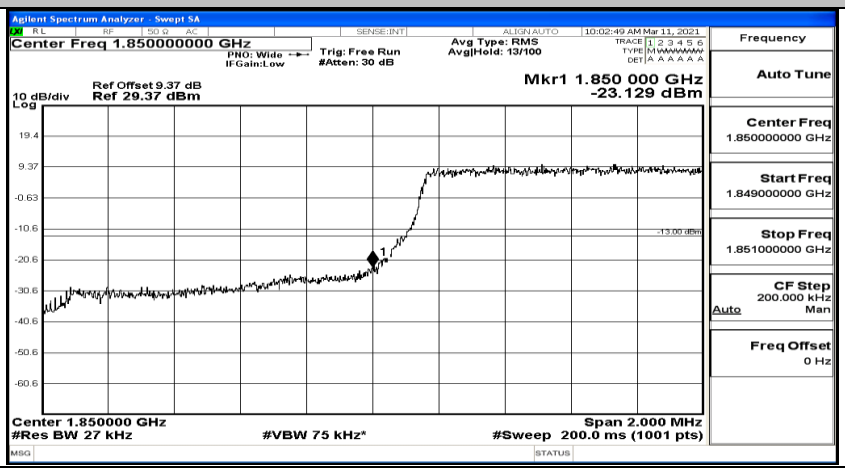


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

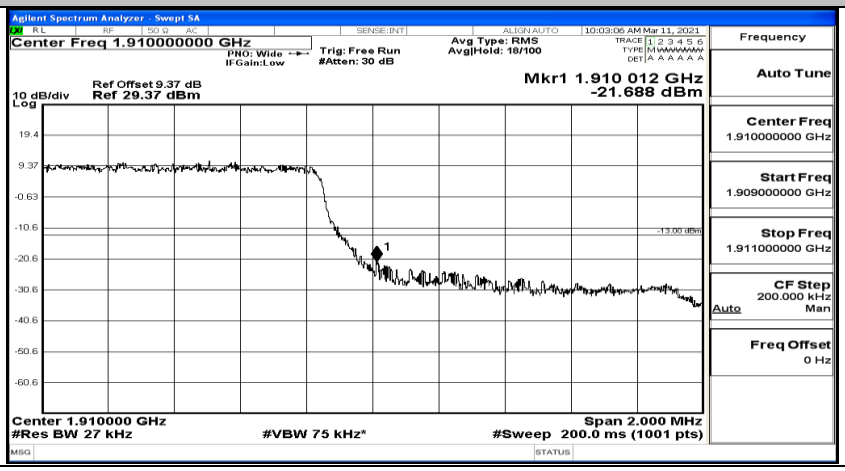


B.4 Band Edge

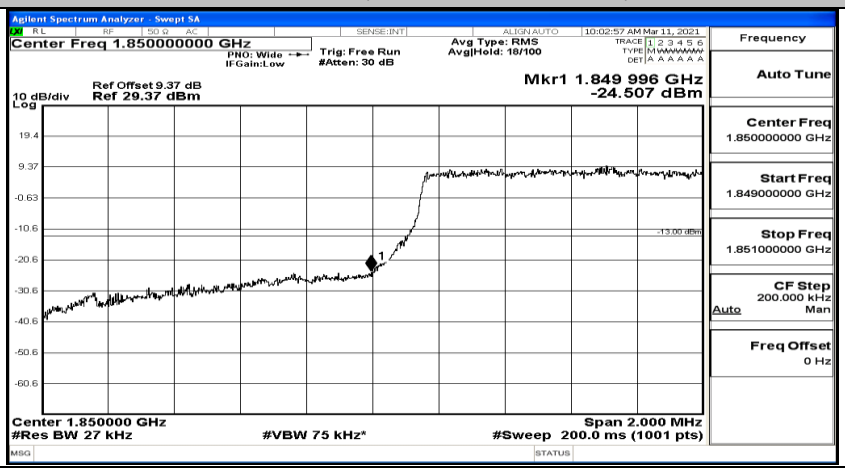
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



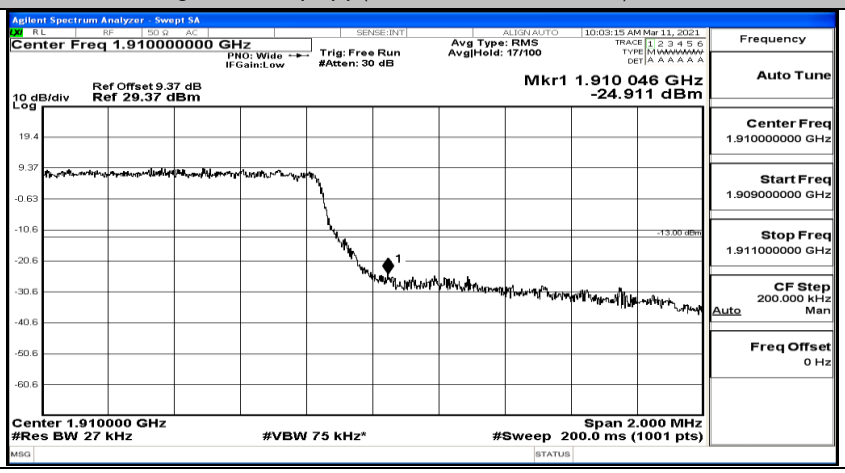
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



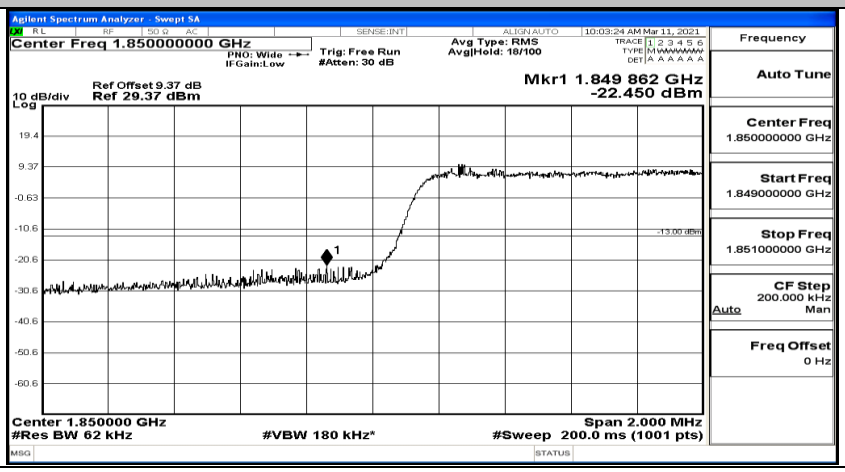
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



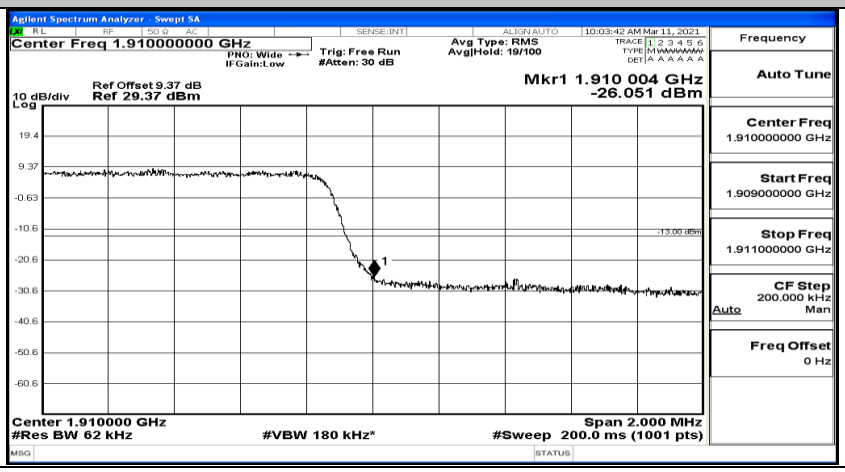
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



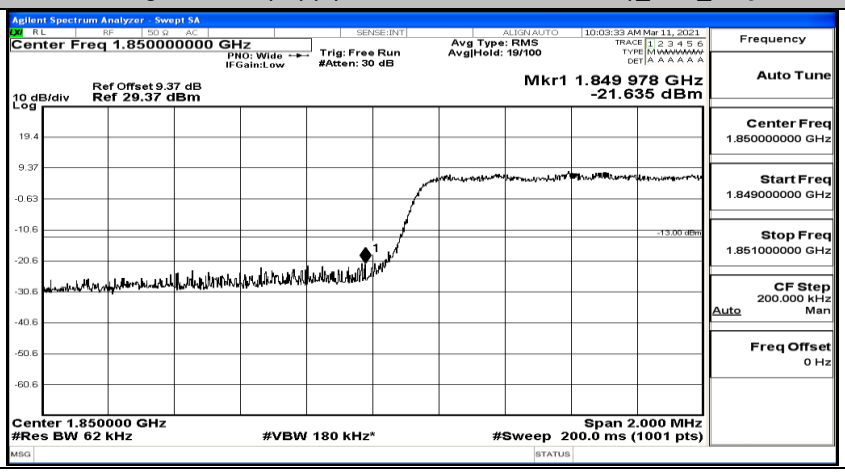
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



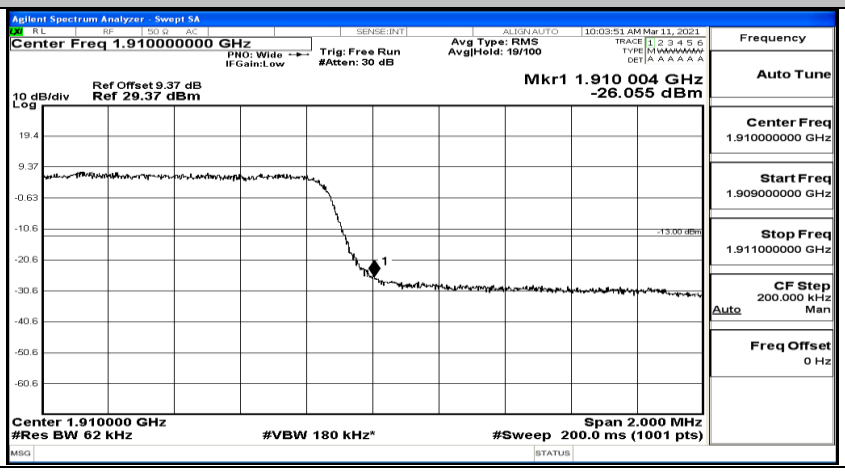
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



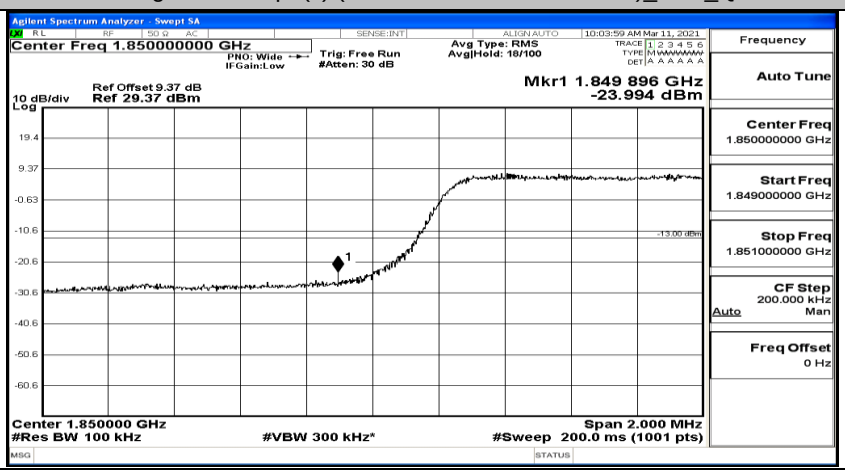
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



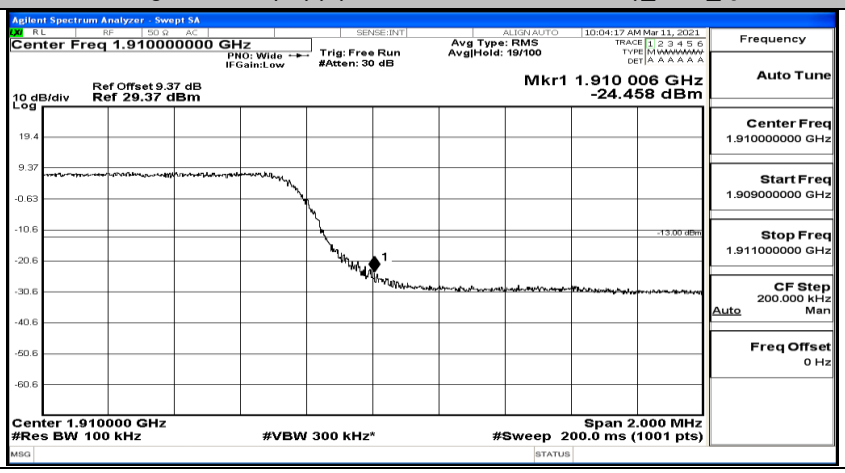
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



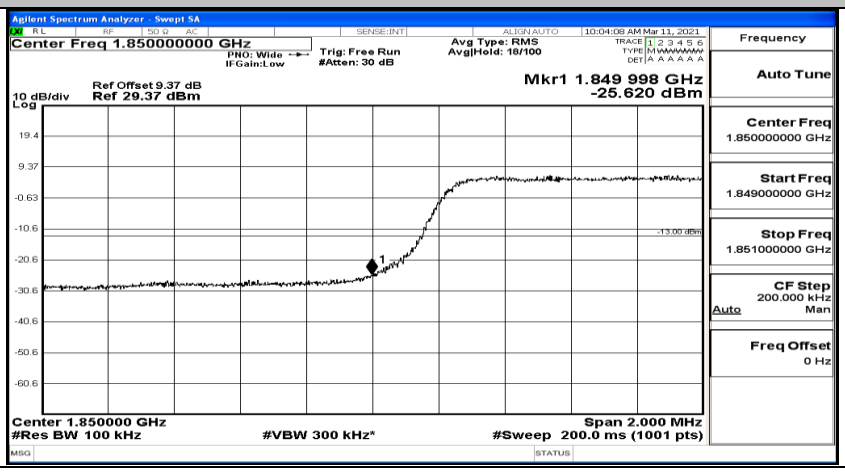
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



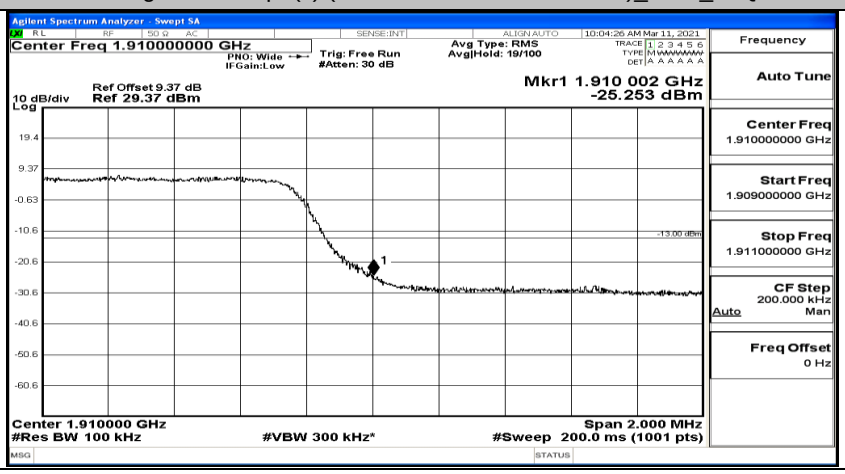
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



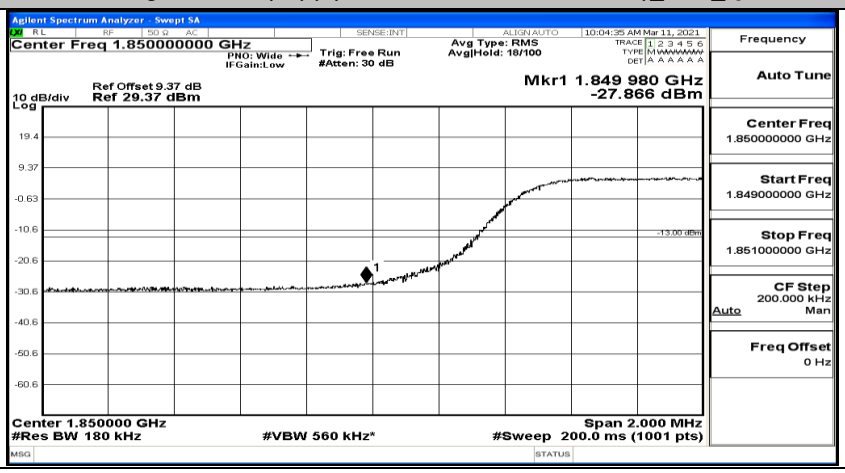
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



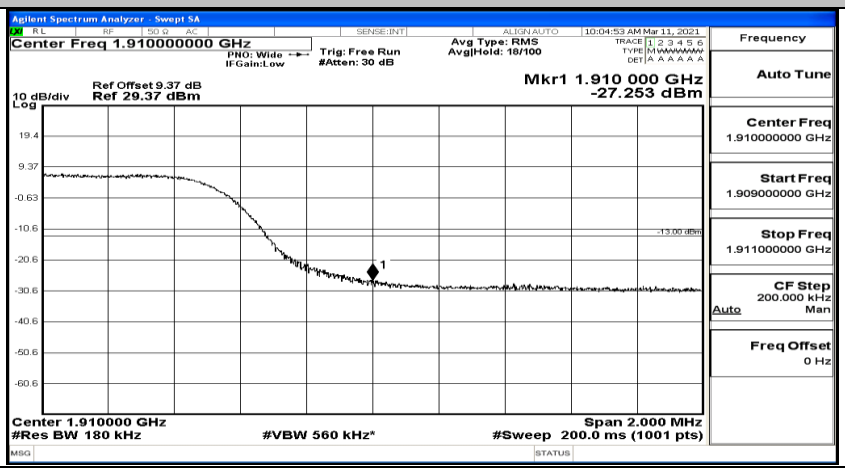
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



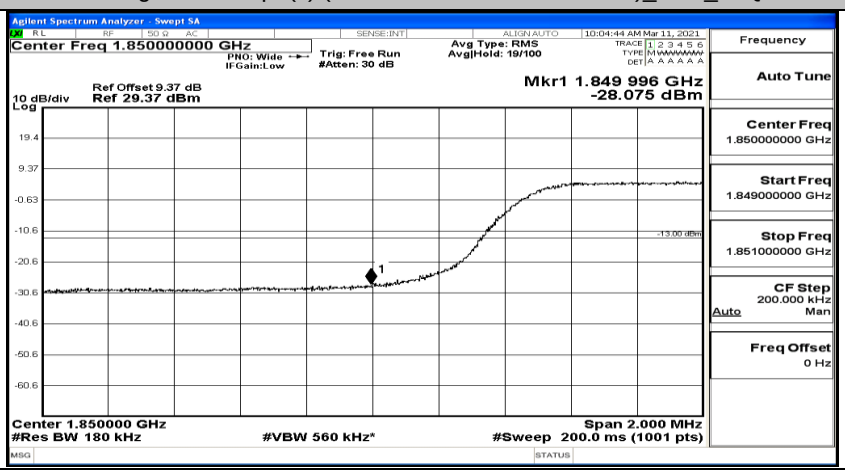
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



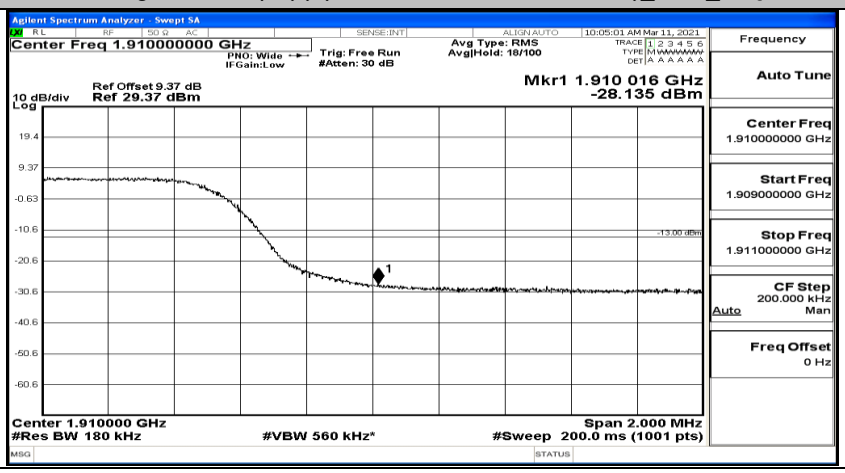
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



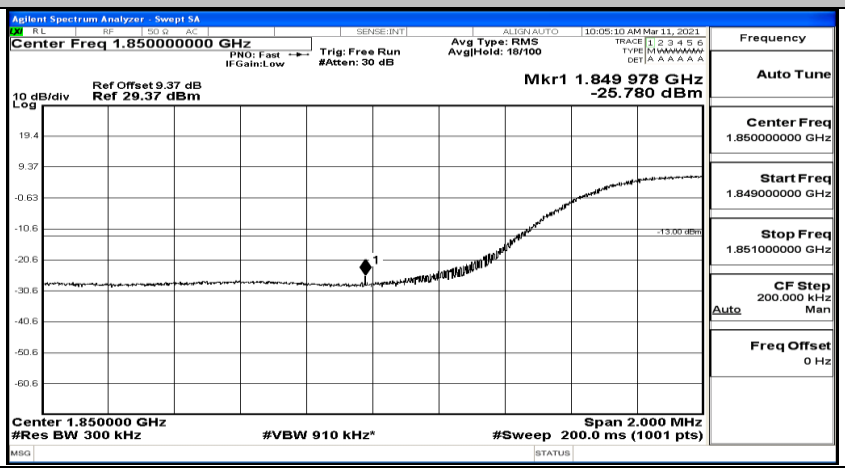
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



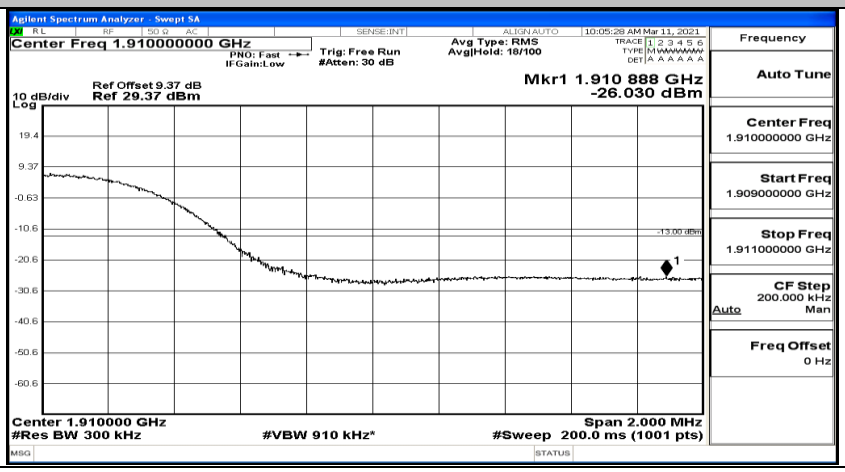
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



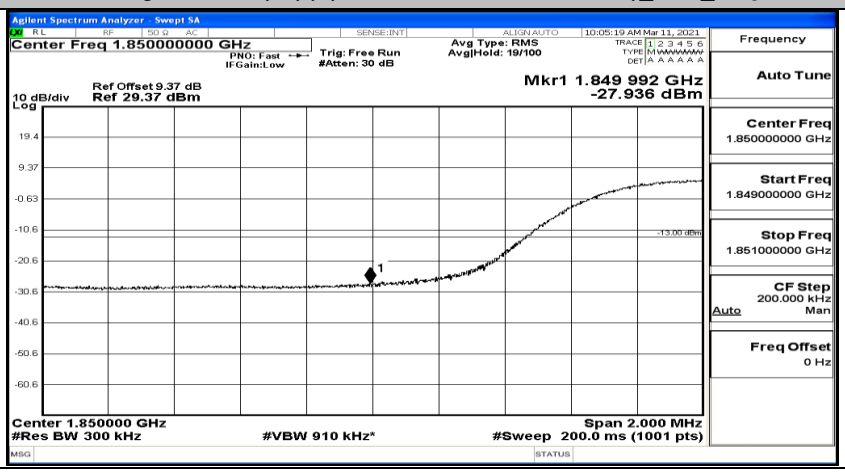
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



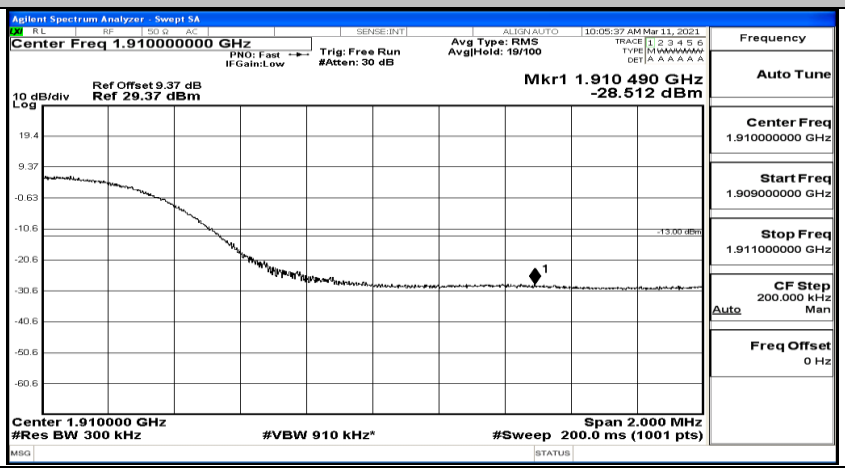
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



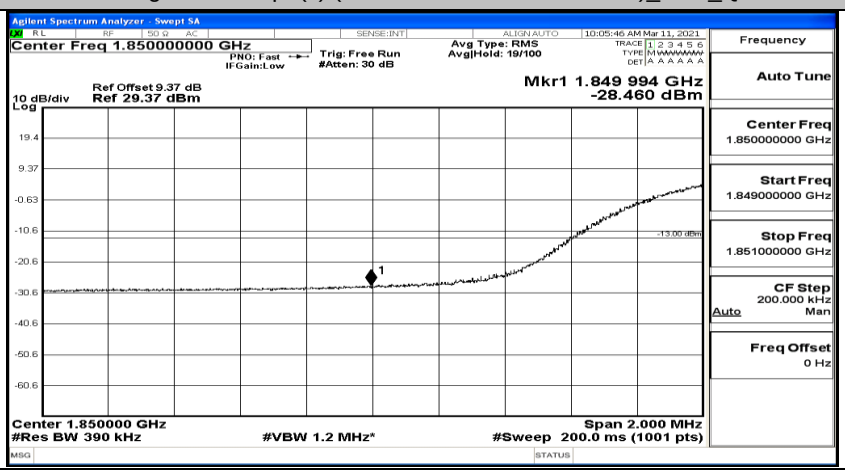
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



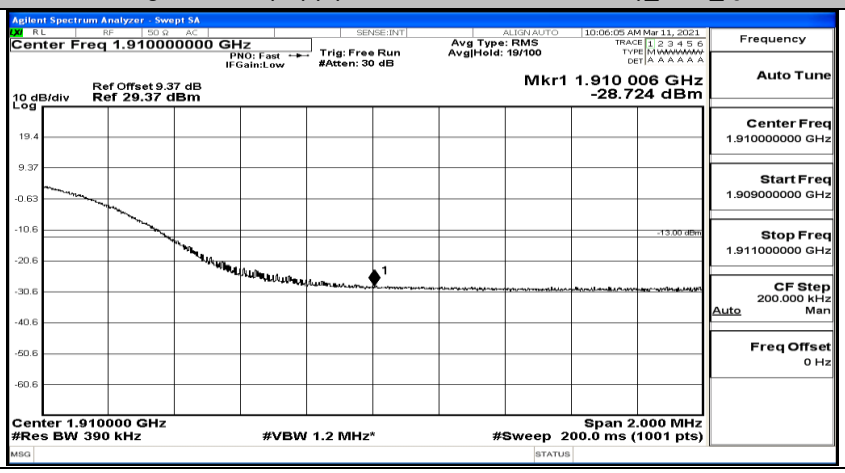
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



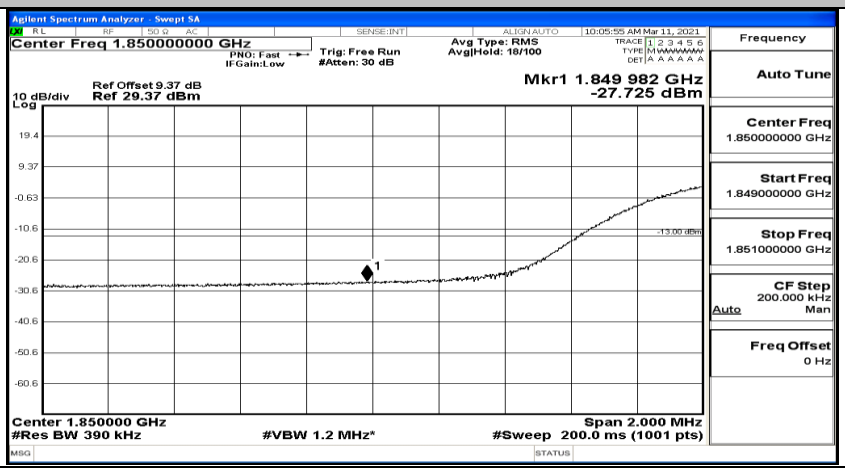
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



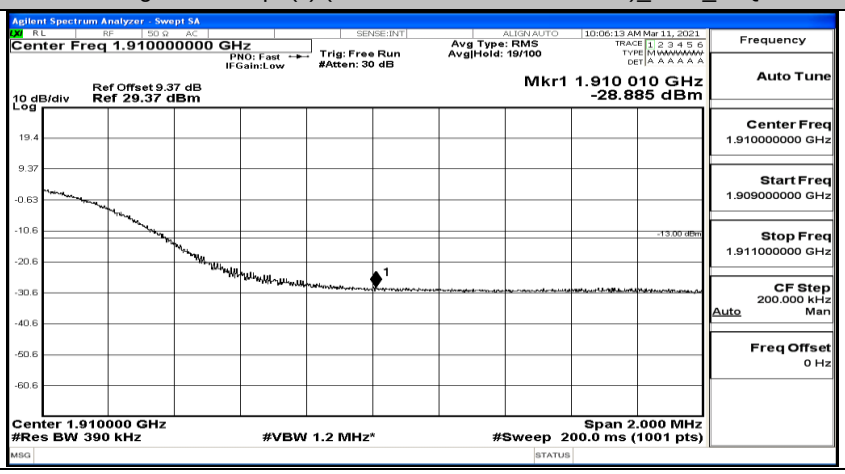
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



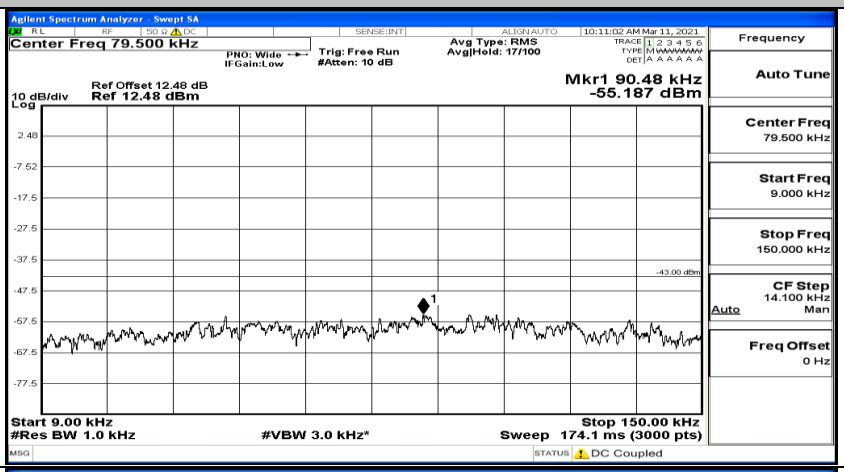
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

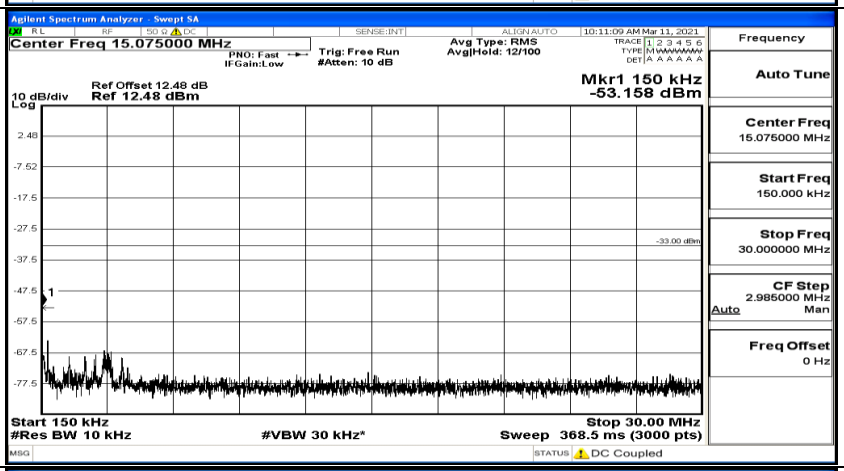


B.5 Conducted Spurious Emission

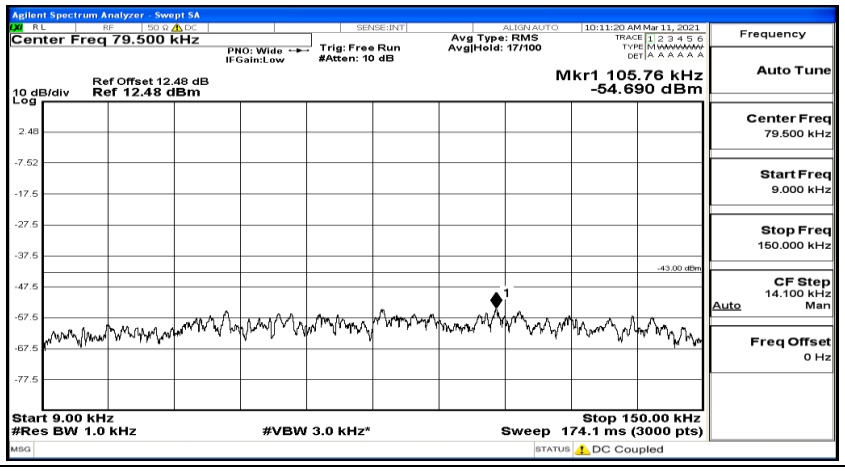
Channel Bandwidth: 1.4 MHz

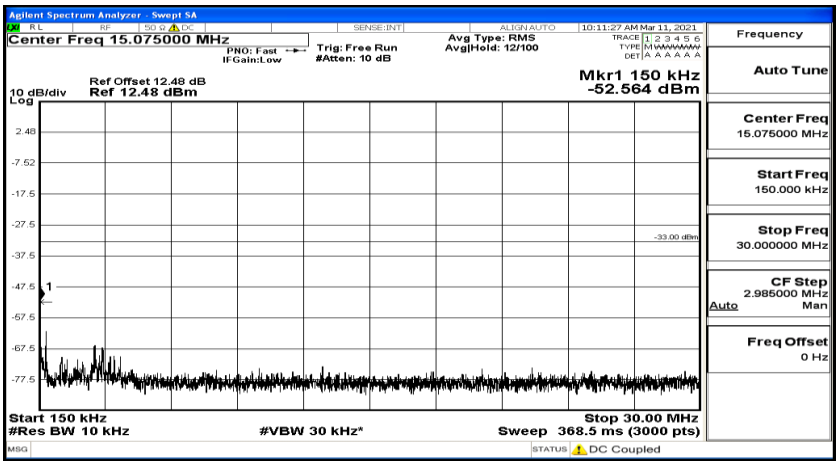
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

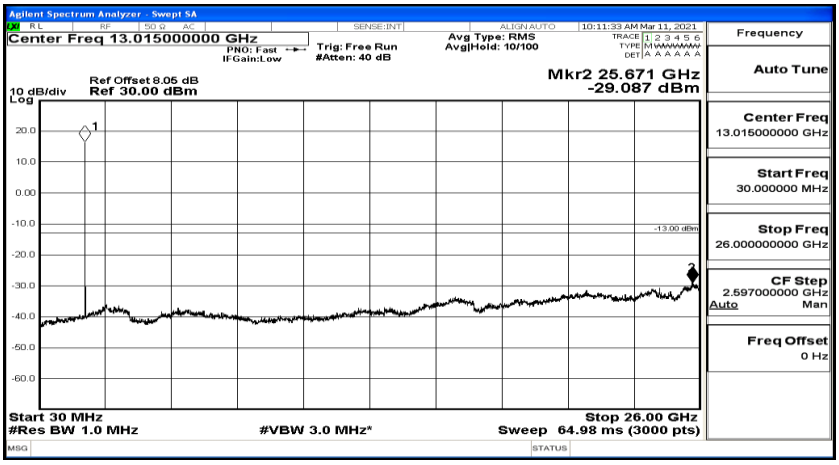




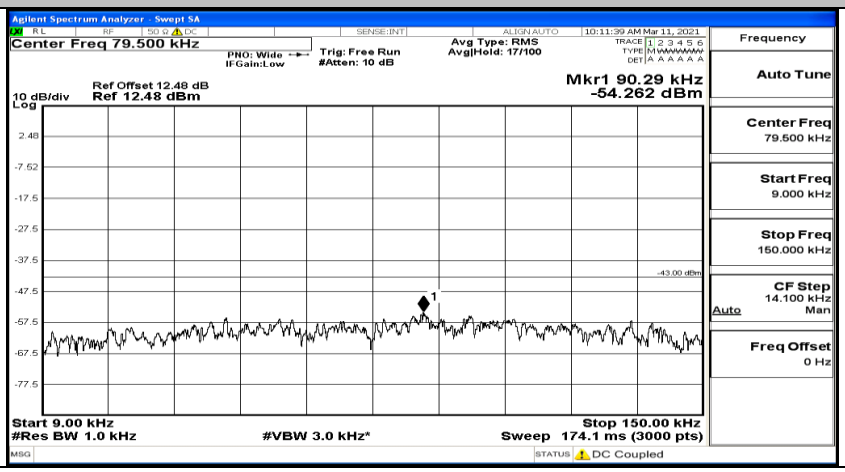
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

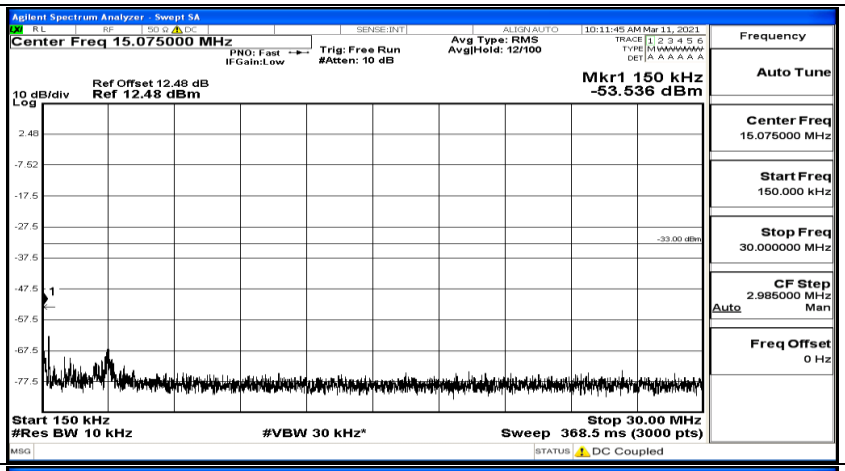


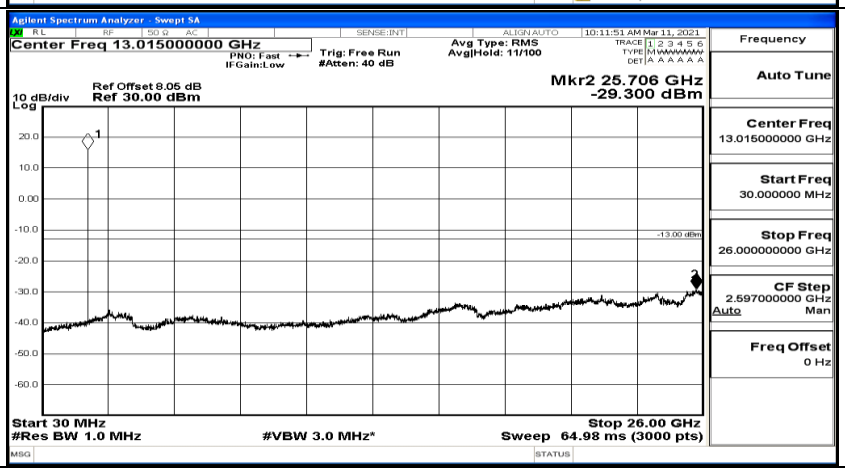




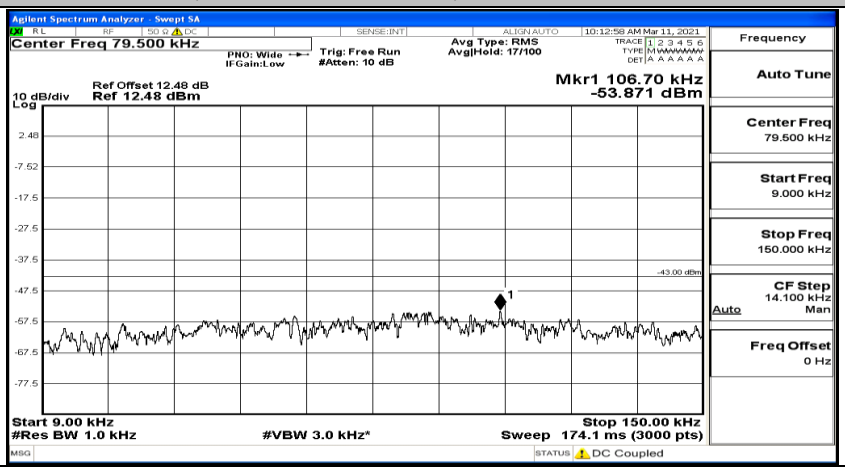
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5

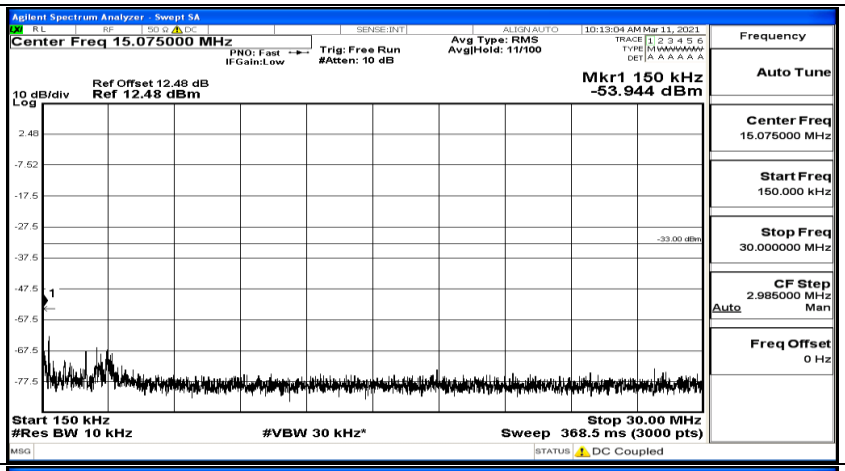


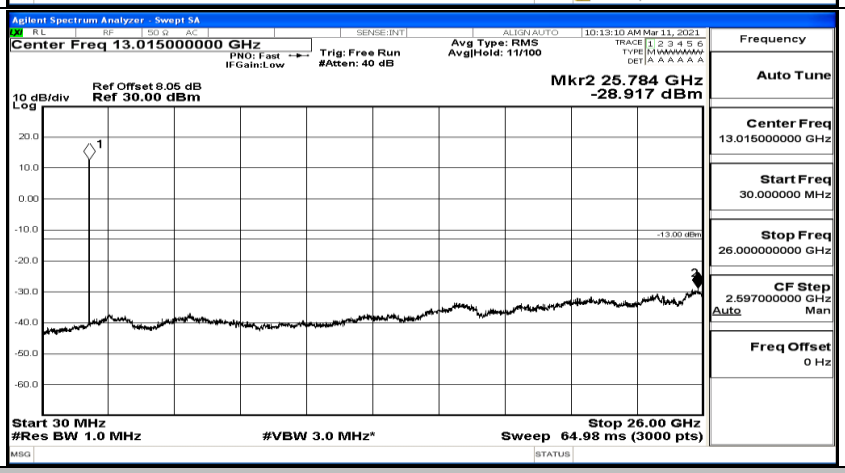




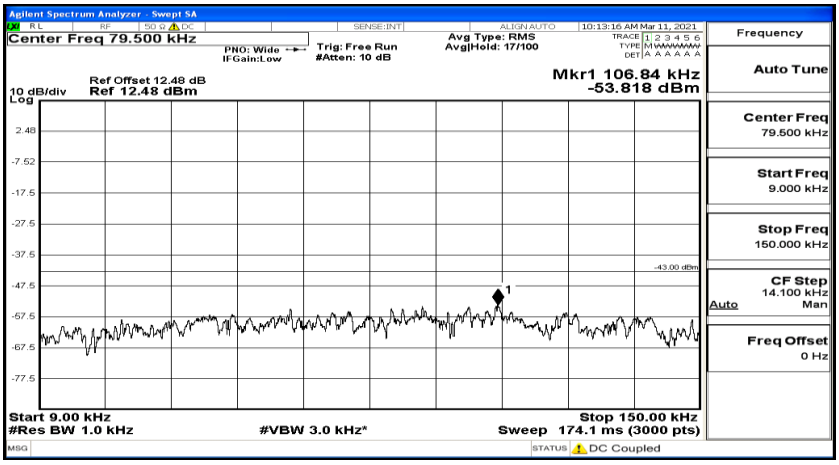
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

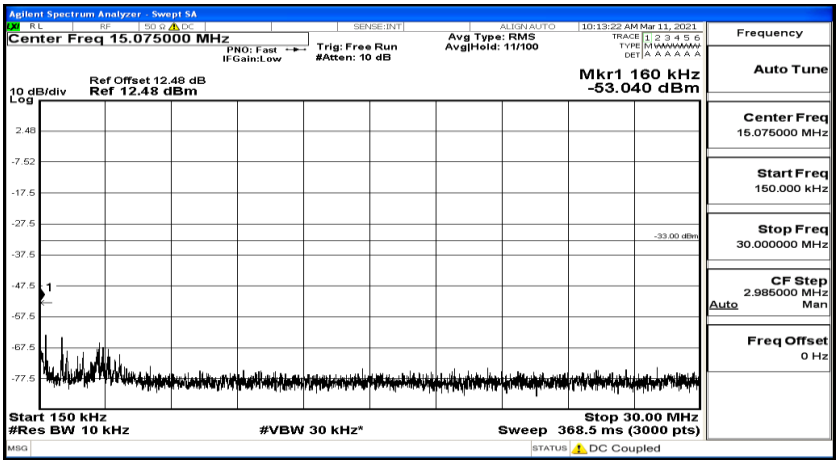


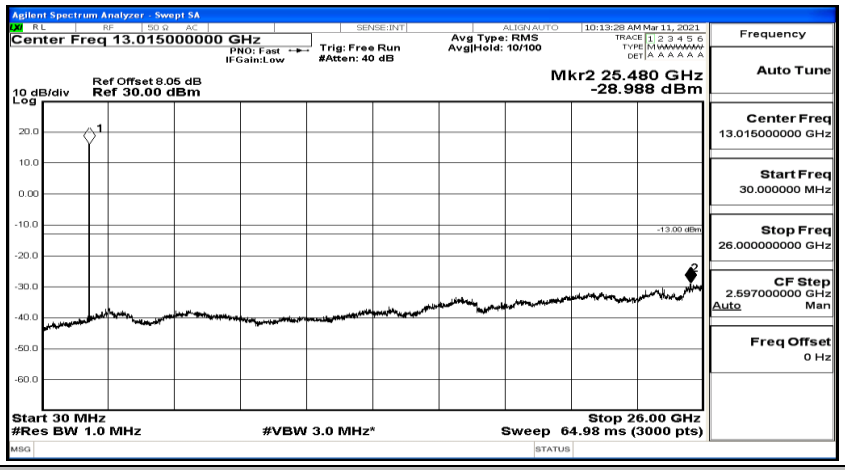
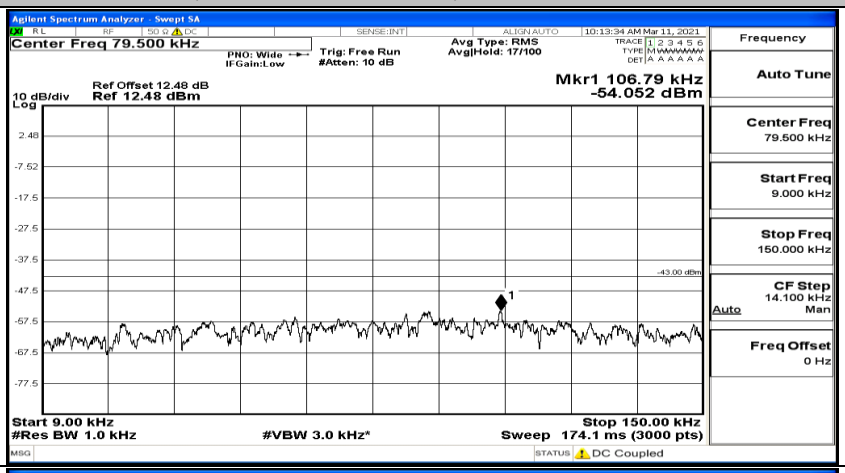
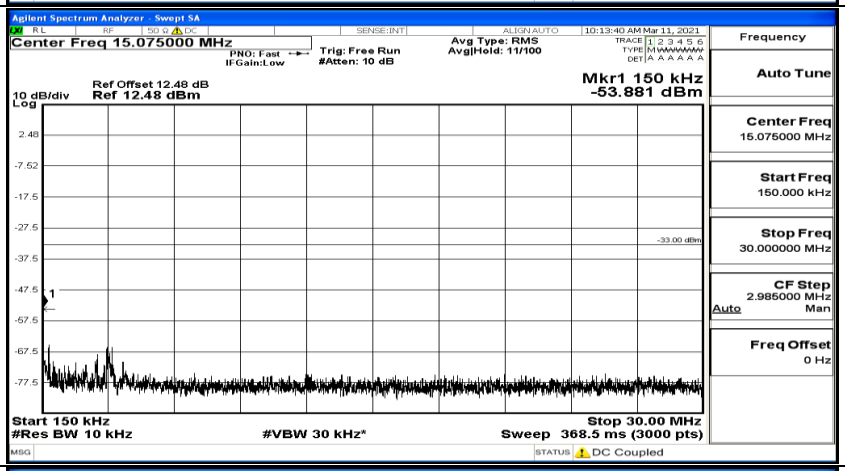
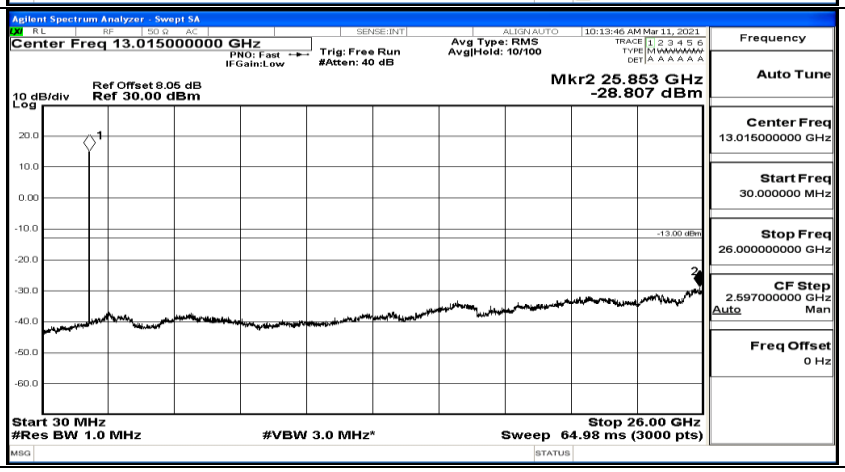




(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3







(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5