

Appendix D: Test Data for E-UTRA Band 5

Product Name: Stackable multifunction charging station

Trade Mark: /

Test Model: SD-C9

Environmental Conditions

Temperature:	22.3° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

D.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.45	21.55	PASS
		1	3	21.50	20.63	PASS
		1	5	22.09	21.26	PASS
		3	0	21.75	20.80	PASS
		3	2	21.76	20.80	PASS
		3	3	21.86	20.74	PASS
		6	0	21.88	21.00	PASS
	MCH	1	0	23.52	22.30	PASS
		1	3	23.60	22.60	PASS
		1	5	23.72	22.58	PASS
		3	0	23.51	22.52	PASS
		3	2	23.50	22.52	PASS
		3	3	23.70	22.51	PASS
		6	0	22.72	21.74	PASS
	HCH	1	0	22.79	21.76	PASS
		1	3	22.67	21.69	PASS
		1	5	22.53	21.51	PASS
		3	0	22.68	21.63	PASS
		3	2	22.67	21.63	PASS
		3	3	22.54	21.47	PASS
		6	0	22.52	21.66	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	21.59	PASS
		1	7	22.88	22.04	PASS
		1	14	22.97	22.12	PASS
		8	0	22.07	21.22	PASS
		8	4	22.06	21.22	PASS
		8	7	22.78	21.90	PASS
		15	0	22.33	21.32	PASS
	MCH	1	0	23.38	22.34	PASS
		1	7	23.77	22.76	PASS
		1	14	23.65	22.75	PASS
		8	0	22.62	21.48	PASS
		8	4	22.61	21.50	PASS
		8	7	22.82	21.94	PASS
		15	0	22.73	21.40	PASS
	HCH	1	0	23.42	22.74	PASS
		1	7	22.91	22.13	PASS
		1	14	22.46	21.67	PASS
		8	0	22.85	22.10	PASS
		8	4	22.86	22.12	PASS
		8	7	22.54	21.73	PASS
		15	0	22.78	21.75	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	22.42	21.45	PASS
		1	12	23.16	22.27	PASS
		1	24	23.44	21.71	PASS
		12	0	22.21	21.12	PASS
		12	6	22.27	21.11	PASS
		12	13	22.23	21.22	PASS
		25	0	22.15	20.96	PASS
	MCH	1	0	23.16	21.87	PASS
		1	12	23.93	22.70	PASS
		1	24	23.55	22.62	PASS
		12	0	22.47	21.61	PASS
		12	6	22.46	21.62	PASS
		12	13	22.68	21.69	PASS
		25	0	22.51	21.45	PASS
	HCH	1	0	23.74	22.80	PASS
		1	12	23.49	22.66	PASS
		1	24	22.44	21.52	PASS
		12	0	22.86	21.58	PASS
		12	6	22.87	21.61	PASS
		12	13	22.62	21.47	PASS
		25	0	22.86	21.75	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.01	21.18	PASS
		1	24	23.81	22.99	PASS
		1	49	22.71	21.69	PASS
		25	0	22.17	21.21	PASS
		25	12	22.16	21.20	PASS
		25	25	22.26	21.15	PASS
		50	0	22.19	21.16	PASS
	MCH	1	0	23.11	22.02	PASS
		1	24	24.16	23.13	PASS
		1	49	23.38	22.35	PASS
		25	0	22.49	21.34	PASS
		25	12	22.48	21.35	PASS
		25	25	22.81	21.89	PASS
		50	0	22.74	21.45	PASS
	HCH	1	0	23.49	22.44	PASS
		1	24	24.19	23.22	PASS
		1	49	22.07	21.00	PASS
		25	0	23.00	21.65	PASS
		25	12	22.99	21.64	PASS
		25	25	22.85	21.66	PASS
		50	0	22.80	21.70	PASS

D.2 Peak-to-Average Ratio

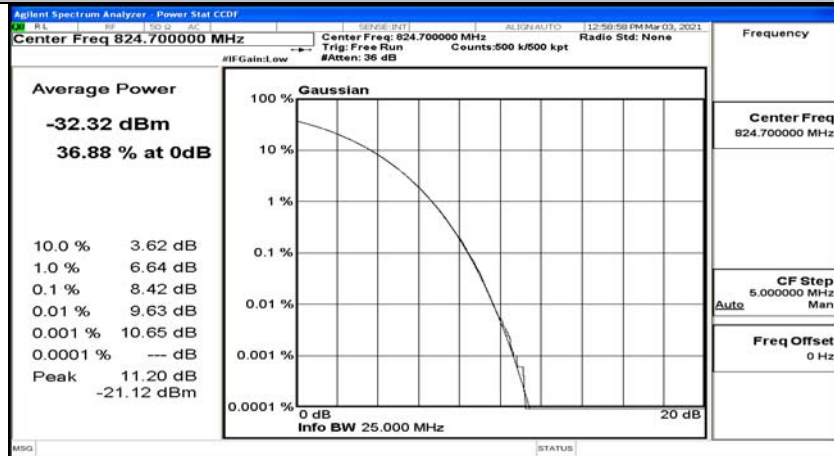
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.42	<13	PASS
	MCH	8.48	<13	PASS
	HCH	8.46	<13	PASS
16QAM	LCH	8.44	<13	PASS
	MCH	8.44	<13	PASS
	HCH	8.43	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.41	<13	PASS
	MCH	8.44	<13	PASS
	HCH	8.44	<13	PASS
16QAM	LCH	8.41	<13	PASS
	MCH	8.49	<13	PASS
	HCH	8.4	<13	PASS

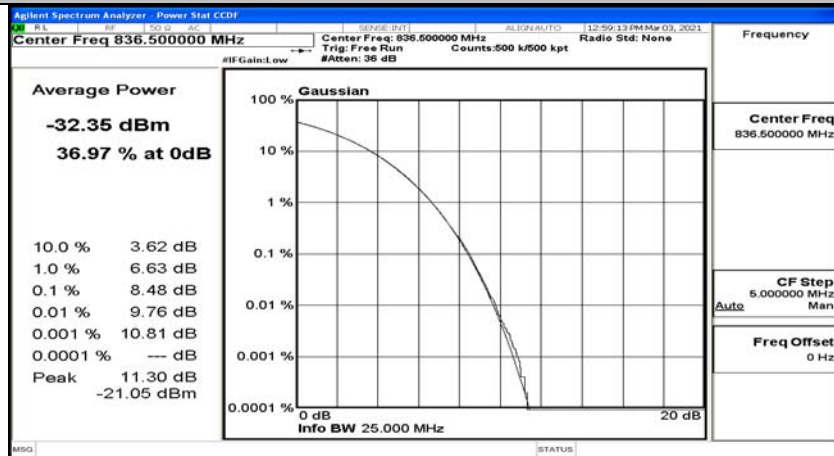
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.44	<13	PASS
	MCH	8.4	<13	PASS
	HCH	8.43	<13	PASS
16QAM	LCH	8.43	<13	PASS
	MCH	8.4	<13	PASS
	HCH	8.42	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.47	<13	PASS
	MCH	8.42	<13	PASS
	HCH	8.4	<13	PASS
16QAM	LCH	8.43	<13	PASS
	MCH	8.41	<13	PASS
	HCH	8.48	<13	PASS

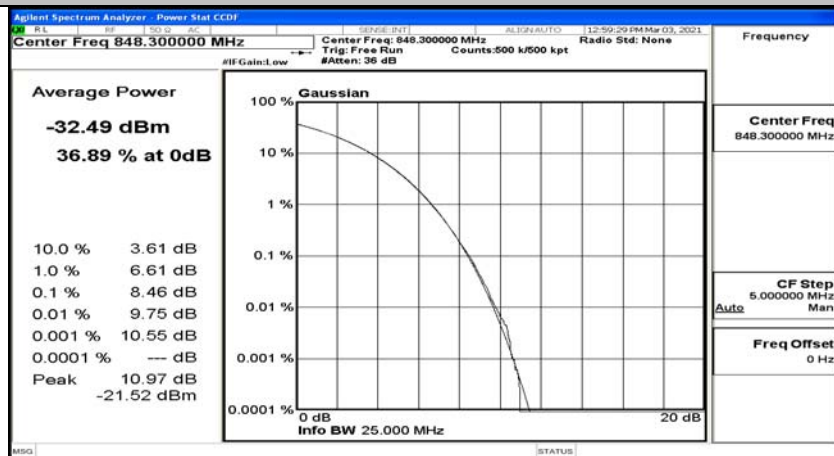
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



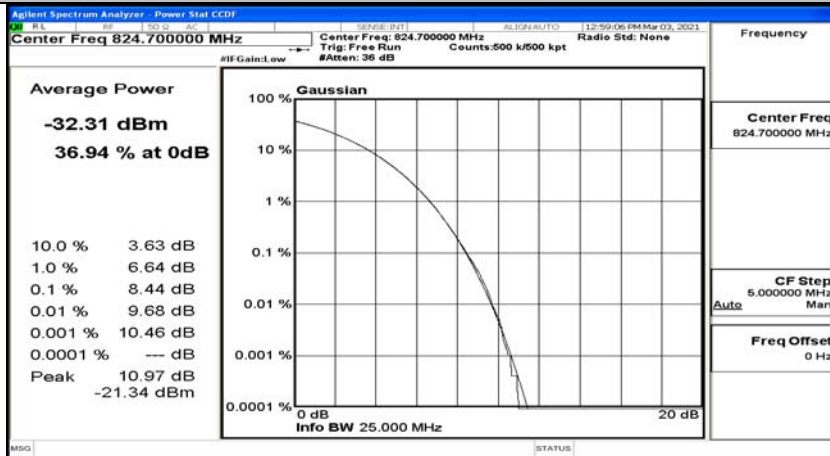
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



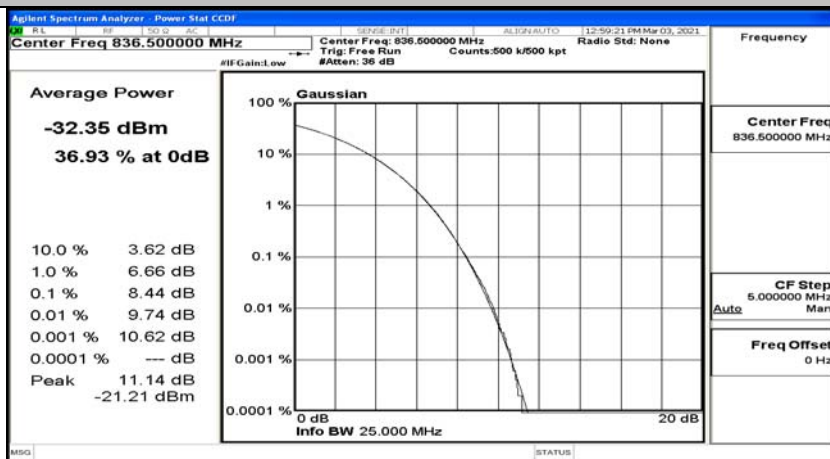
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



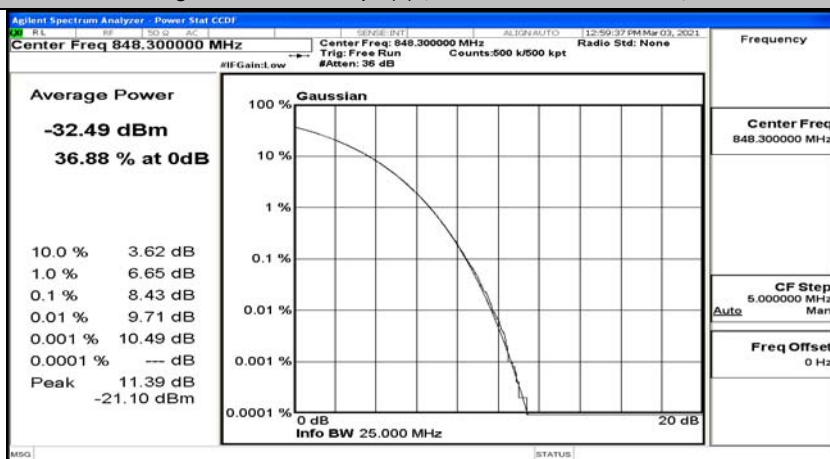
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



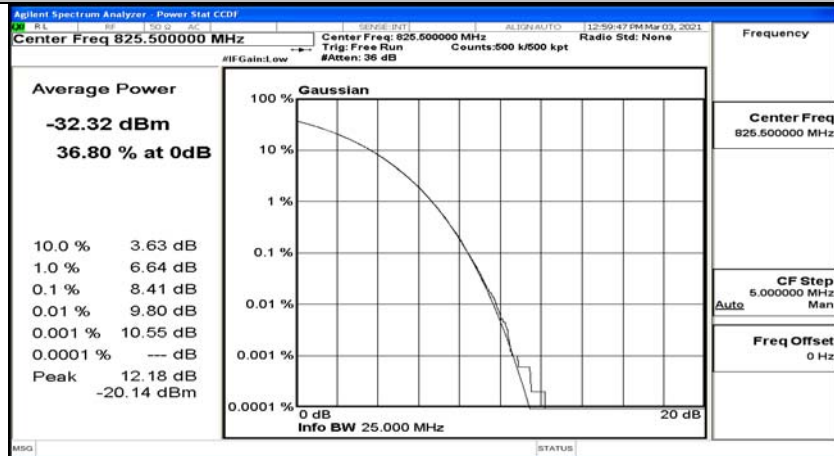
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



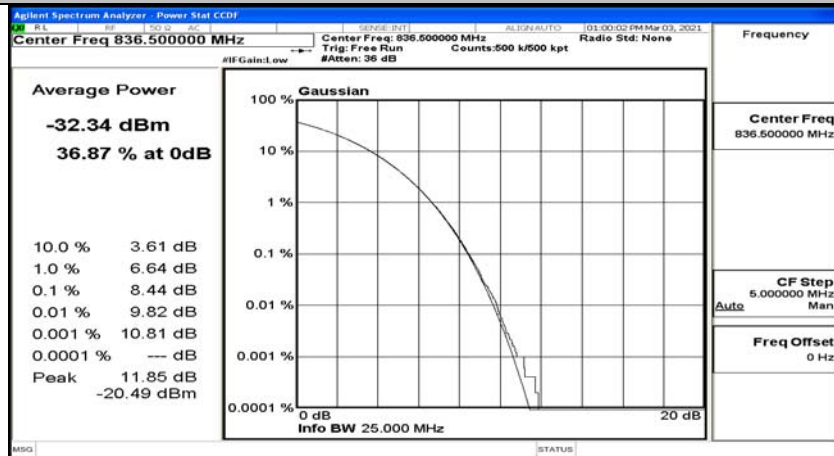
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



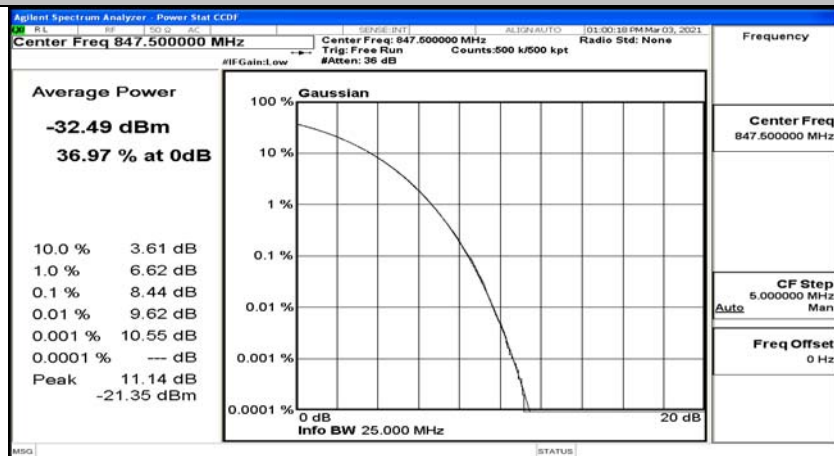
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



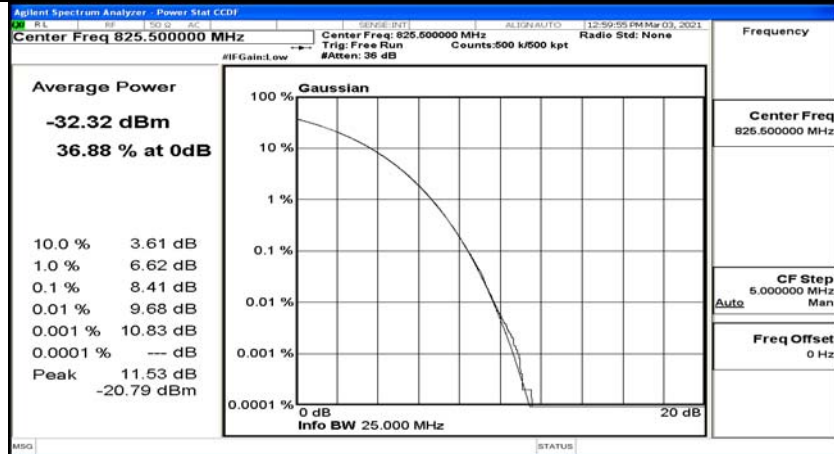
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



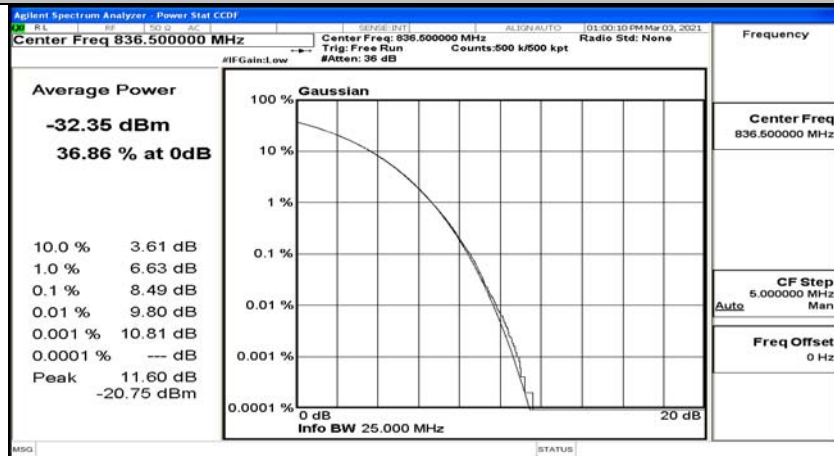
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



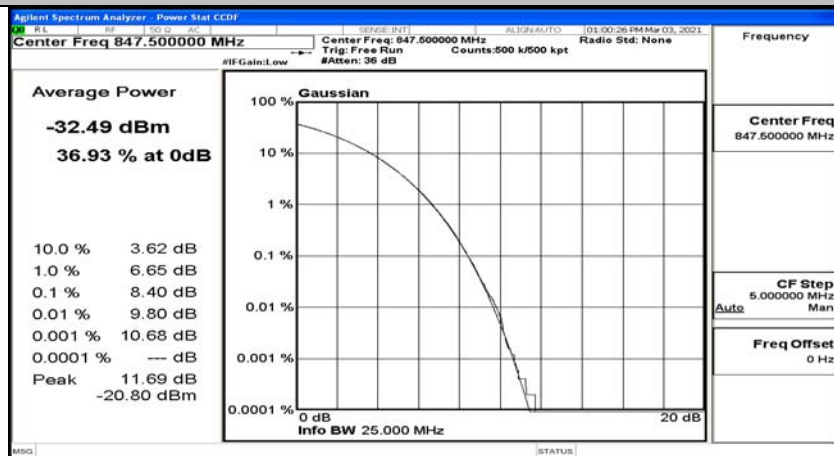
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



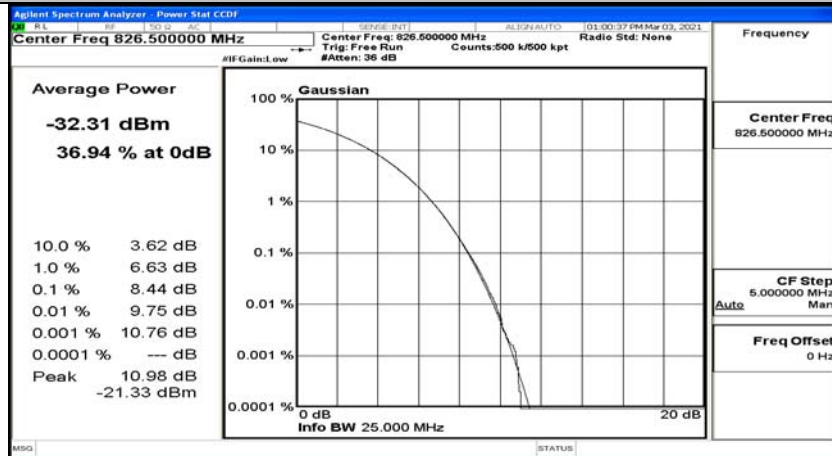
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



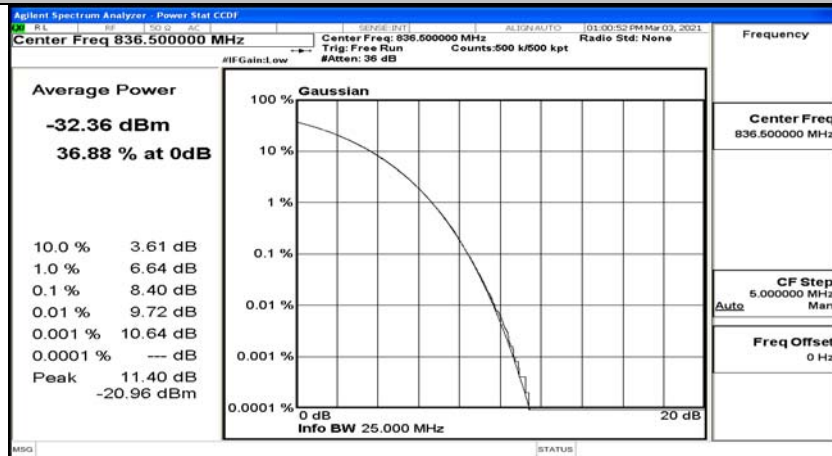
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



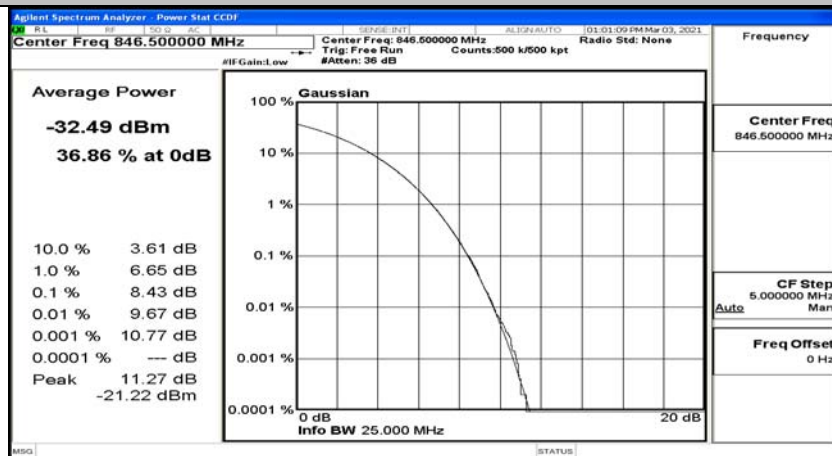
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



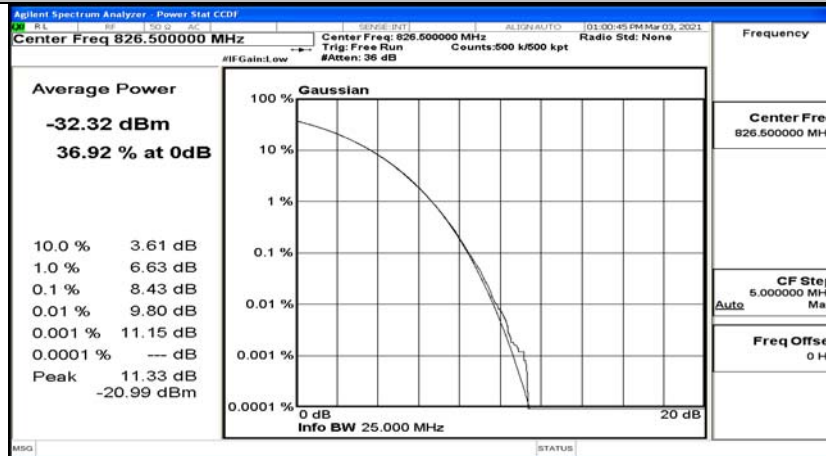
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



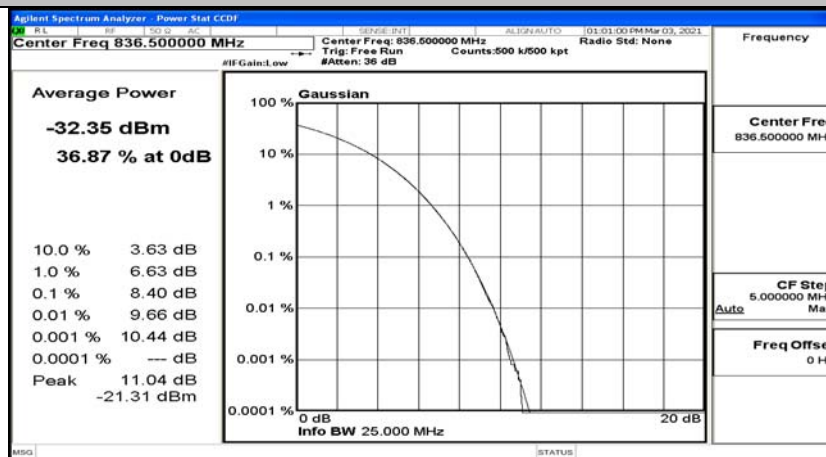
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



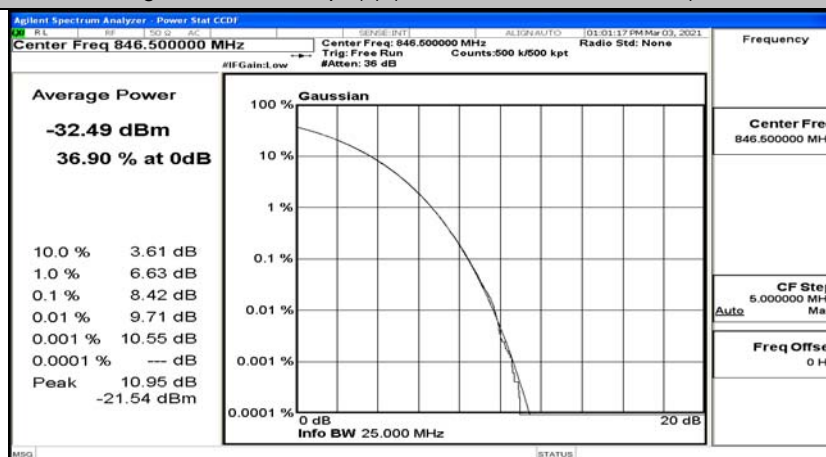
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



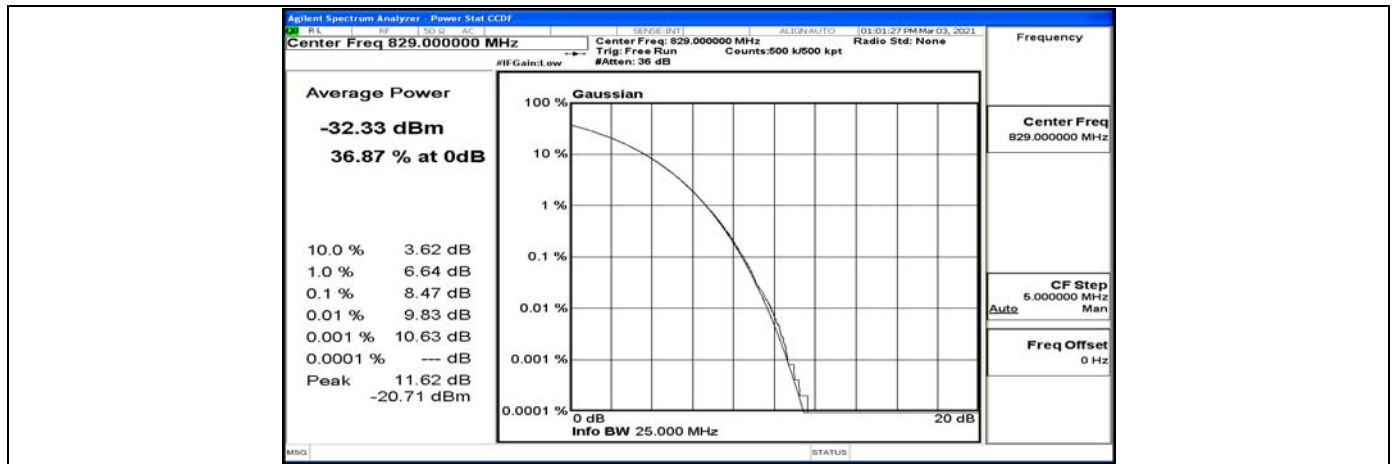
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



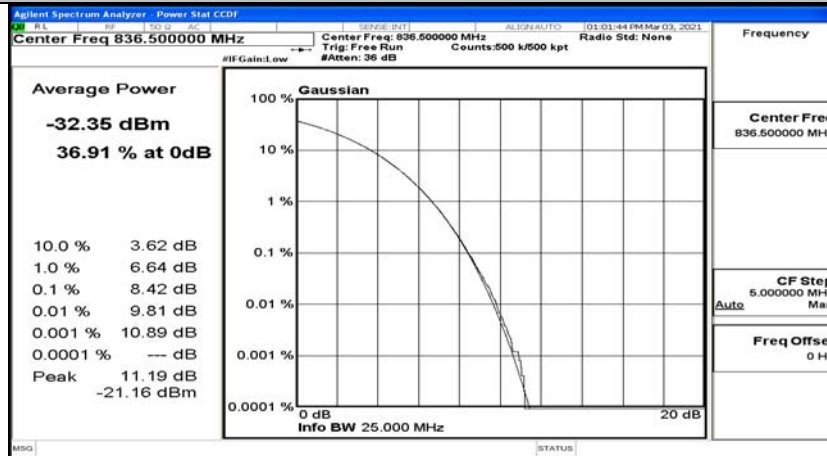
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



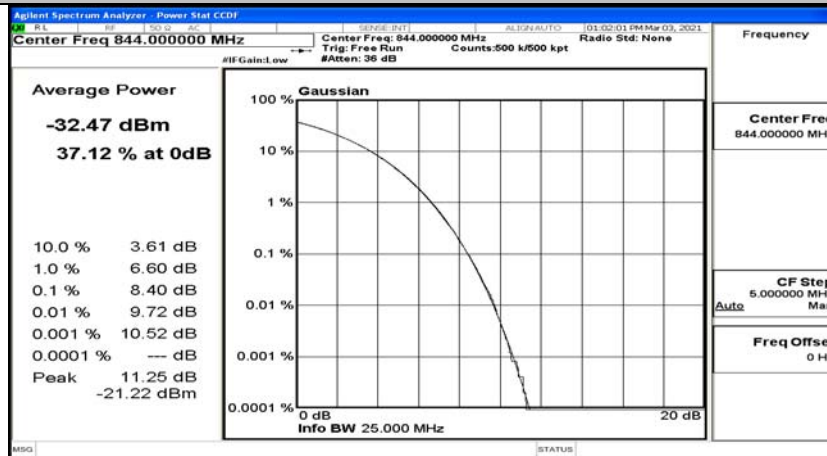
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



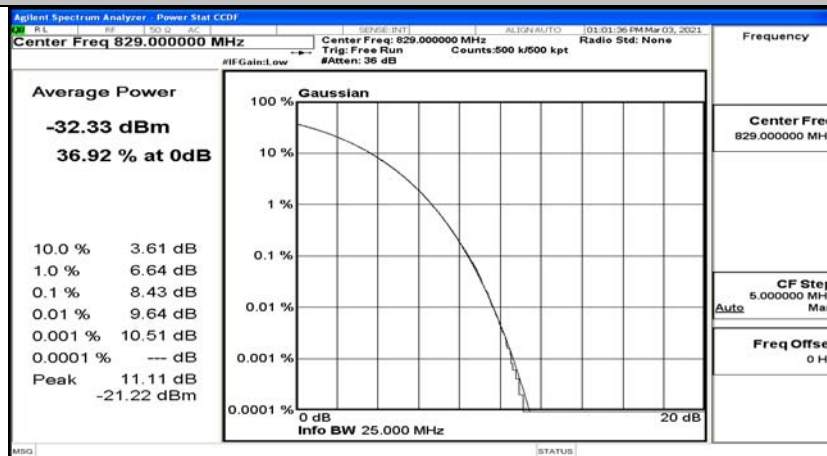
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



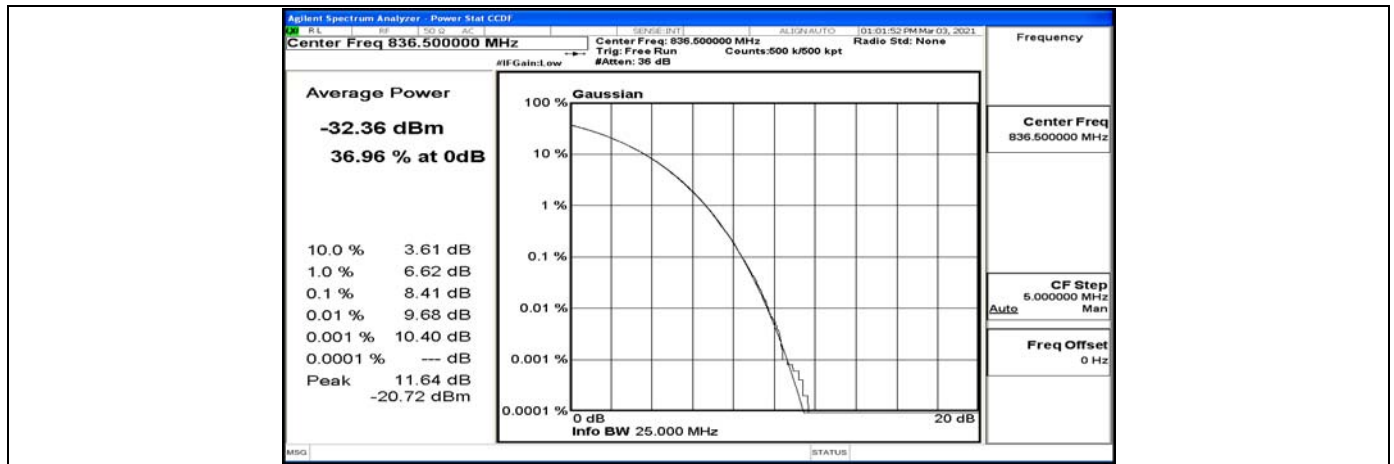
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



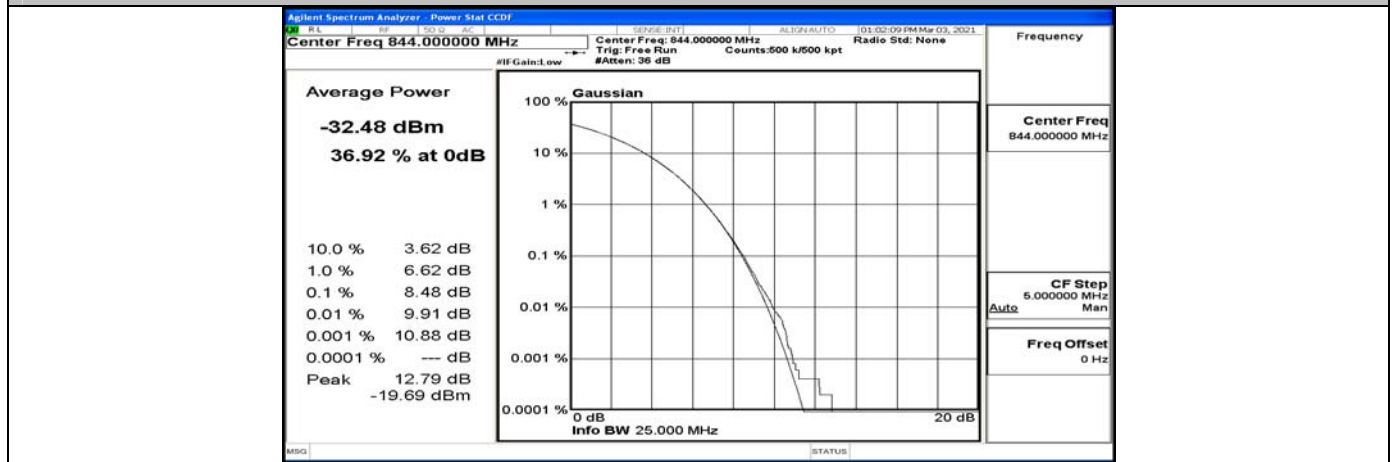
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



D.3 26dB Bandwidth and Occupied Bandwidth

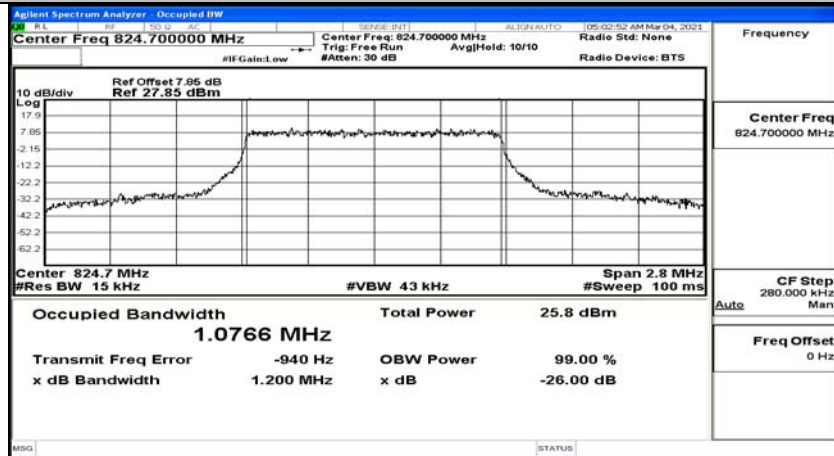
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0766	1.200	PASS
	MCH	1.0761	1.238	PASS
	HCH	1.0788	1.218	PASS
16QAM	LCH	1.0786	1.252	PASS
	MCH	1.0787	1.222	PASS
	HCH	1.0790	1.215	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6785	2.875	PASS
	MCH	2.6863	2.887	PASS
	HCH	2.6879	2.896	PASS
16QAM	LCH	2.6826	2.910	PASS
	MCH	2.6785	2.911	PASS
	HCH	2.6841	2.868	PASS

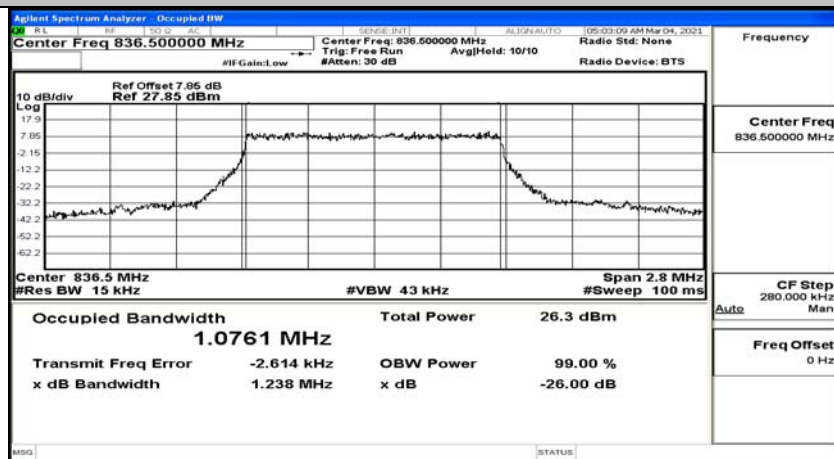
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4723	10.00	PASS
	MCH	4.4723	4.773	PASS
	HCH	4.4664	4.777	PASS
16QAM	LCH	4.4771	4.770	PASS
	MCH	4.4686	4.833	PASS
	HCH	4.4746	4.761	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9228	20.00	PASS
	MCH	8.9228	9.424	PASS
	HCH	8.8969	9.400	PASS
16QAM	LCH	8.9228	20.00	PASS
	MCH	8.9393	9.437	PASS
	HCH	8.9053	9.346	PASS

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



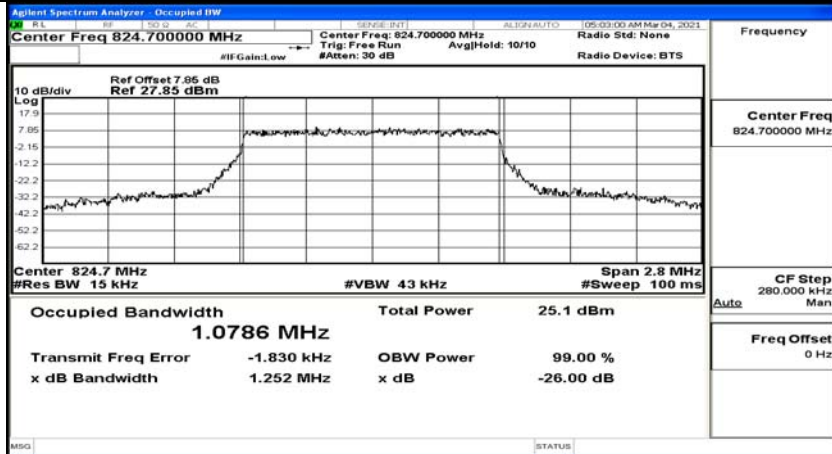
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



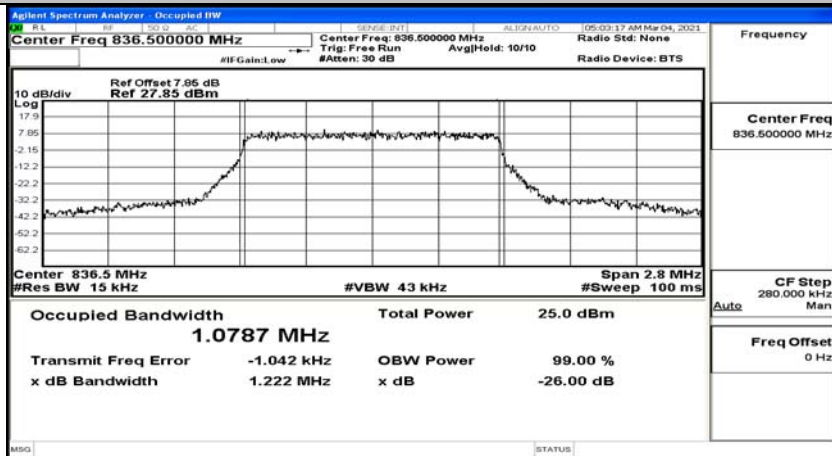
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



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



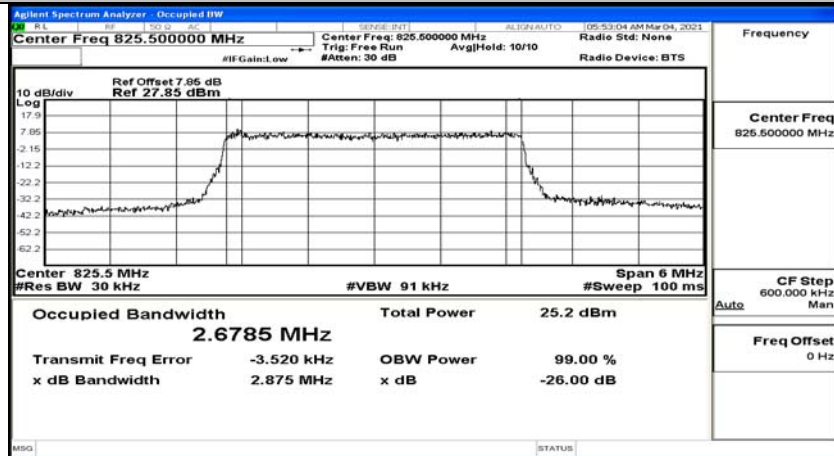
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



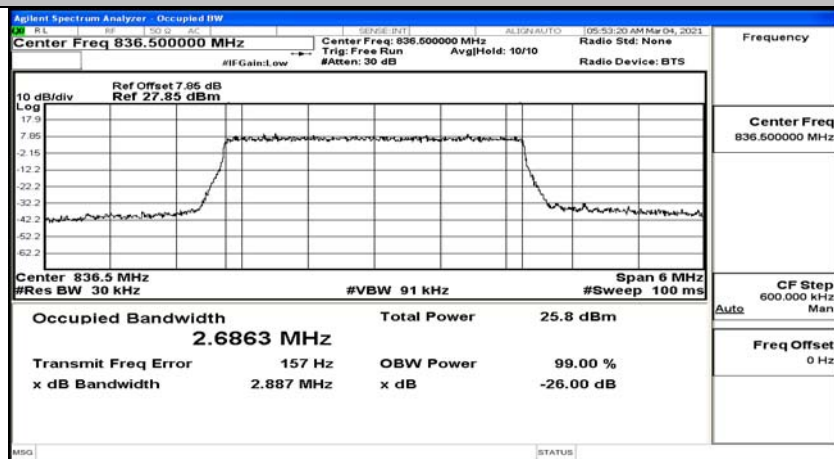
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



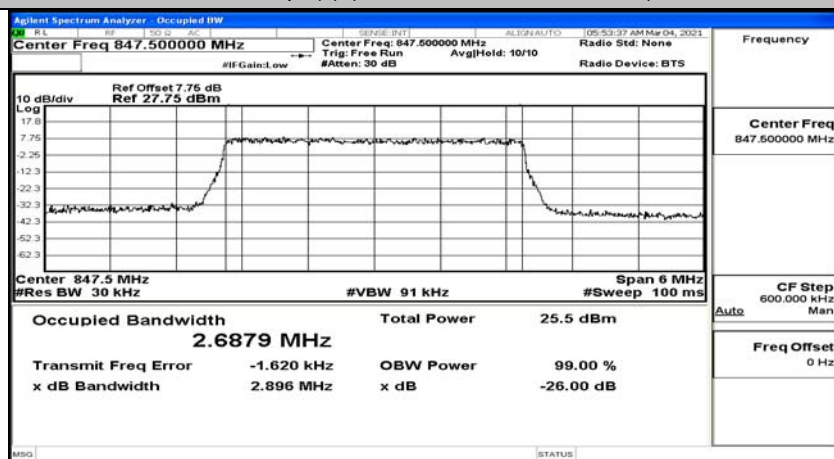
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



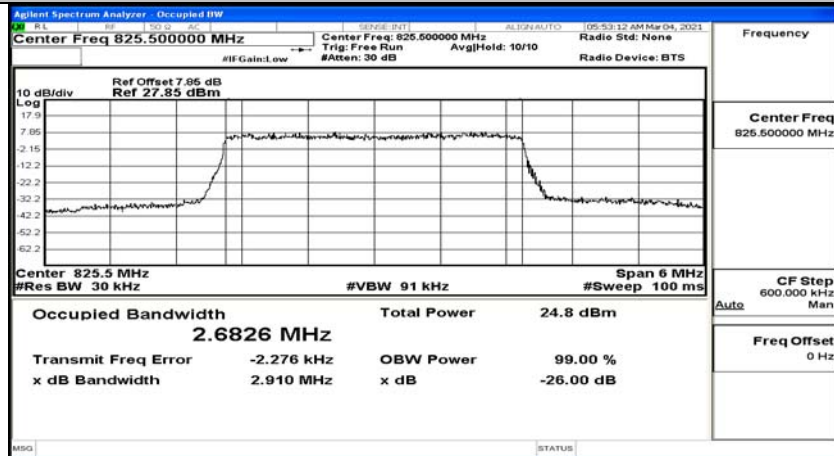
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



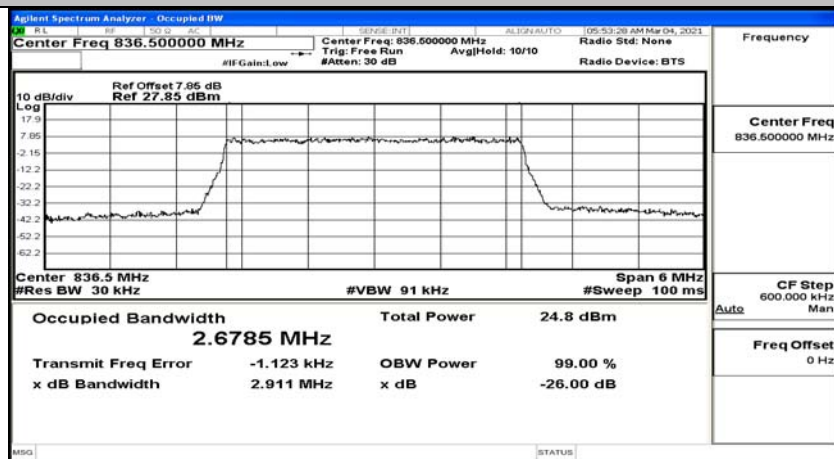
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



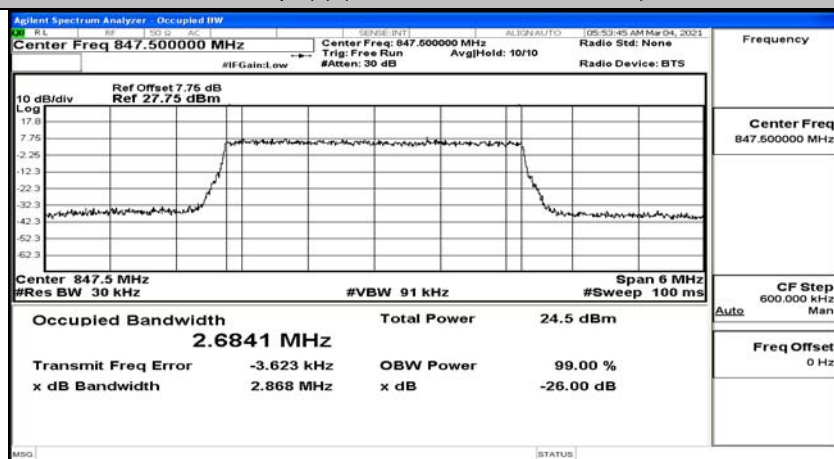
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



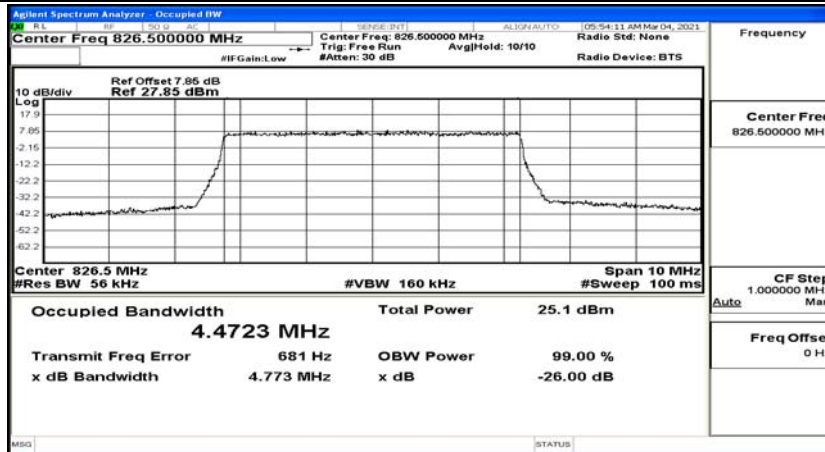
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



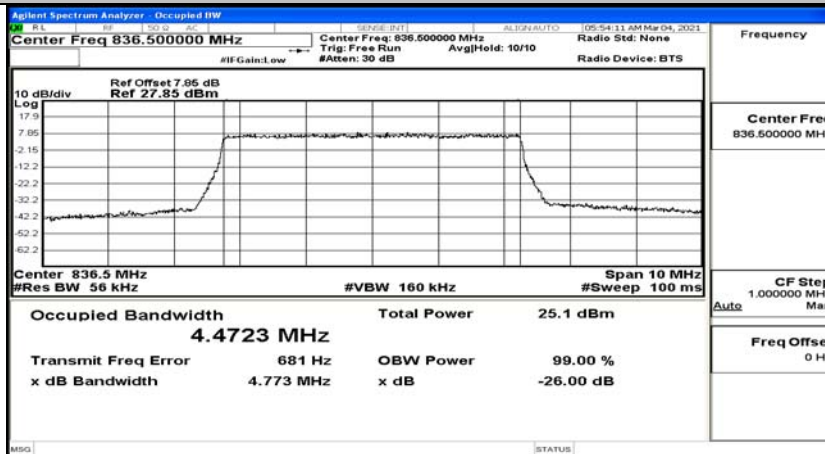
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



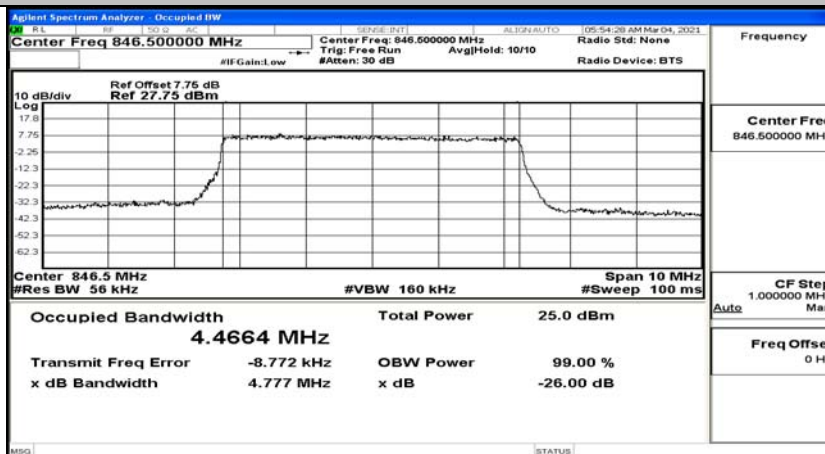
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



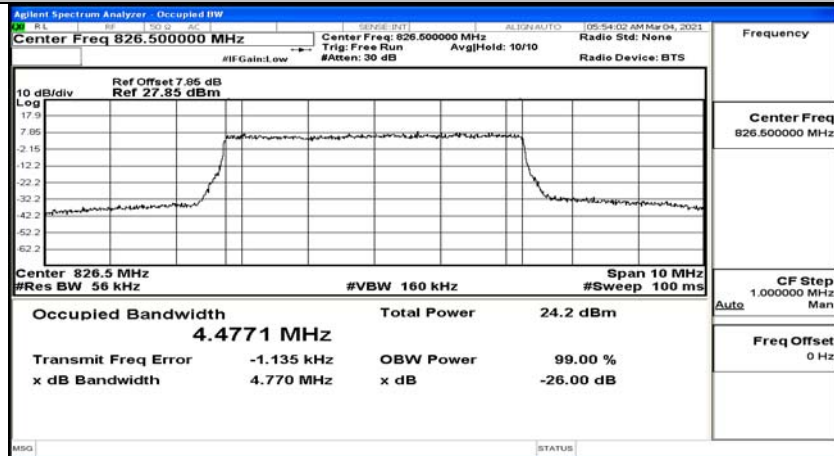
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



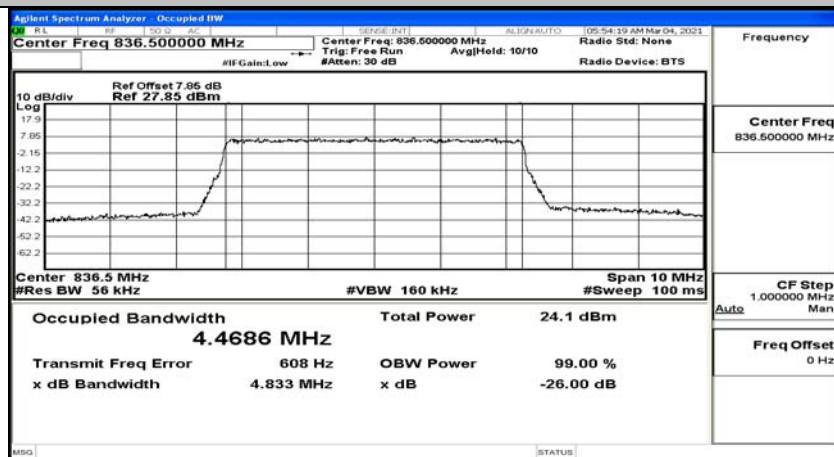
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



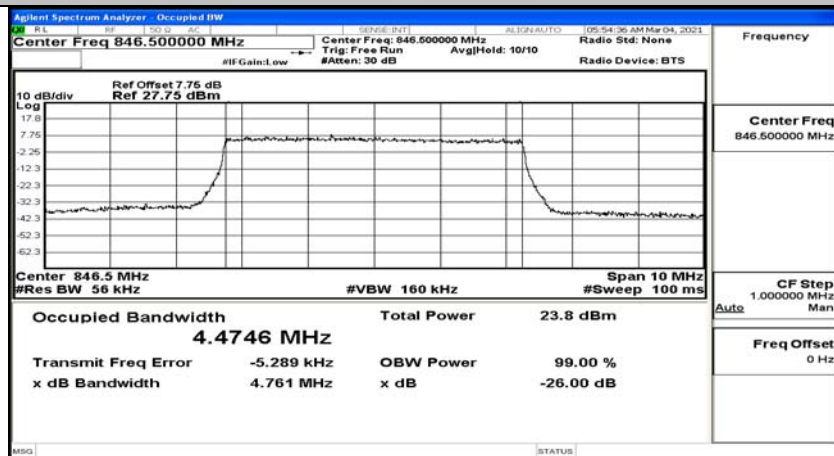
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



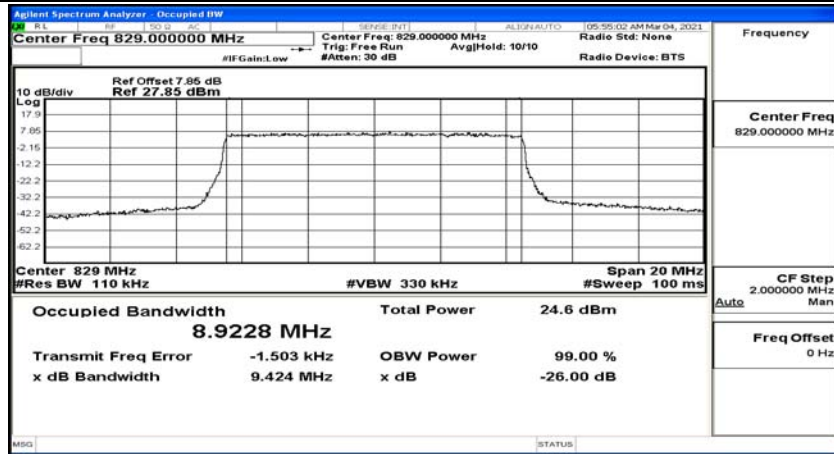
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



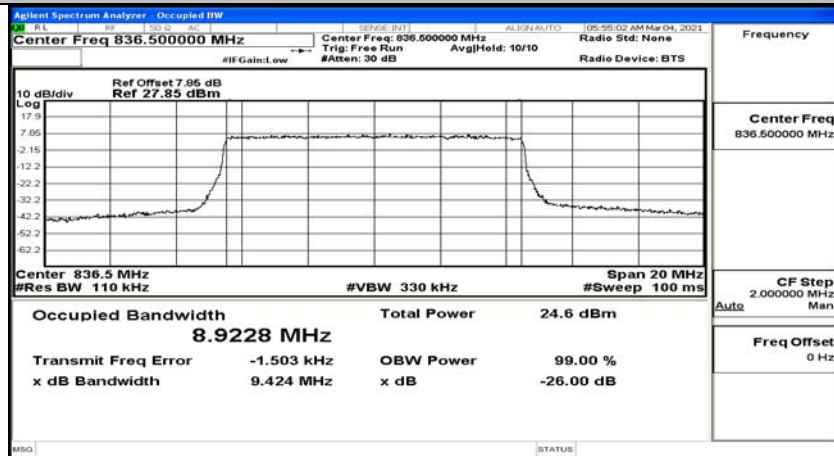
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



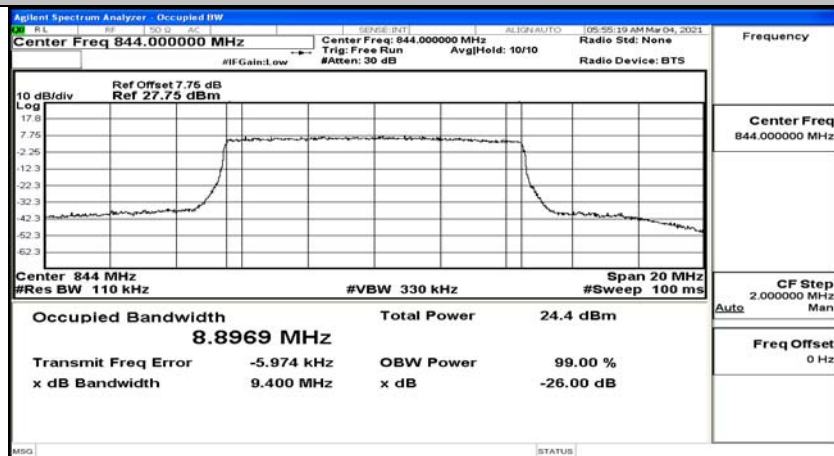
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



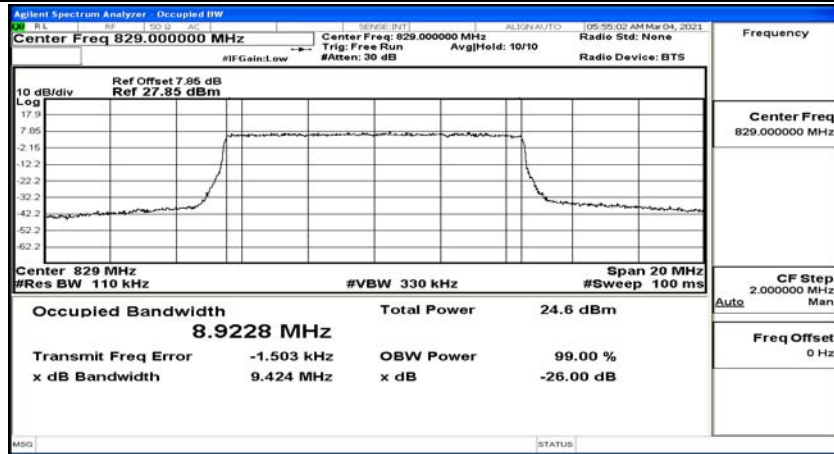
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



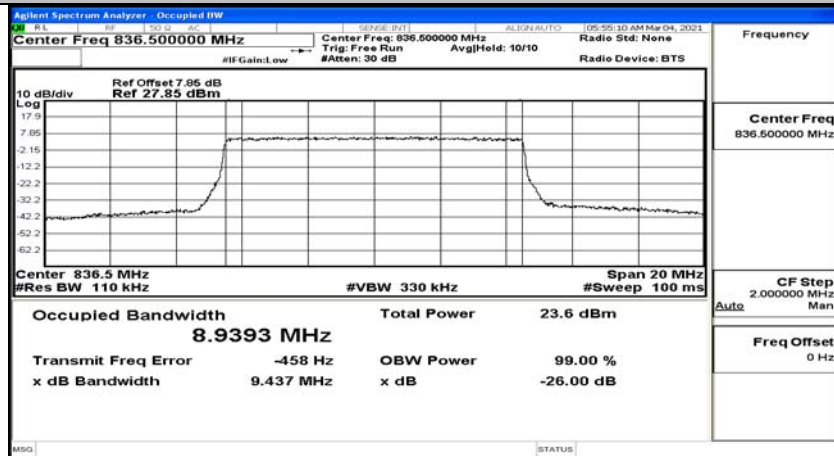
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



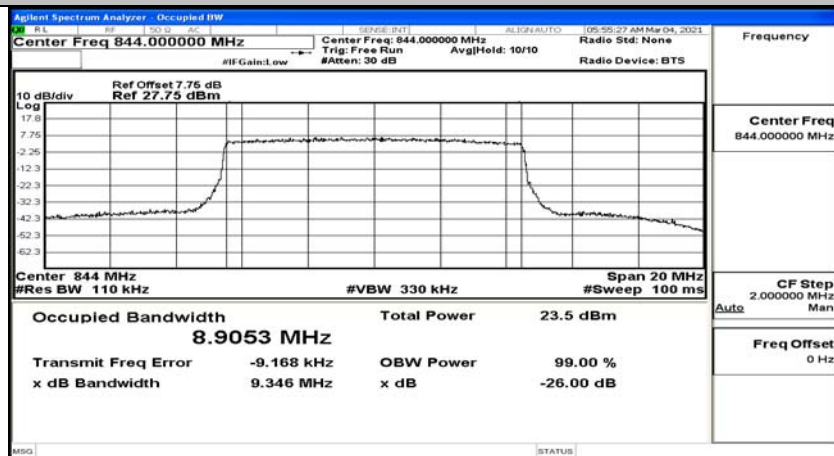
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

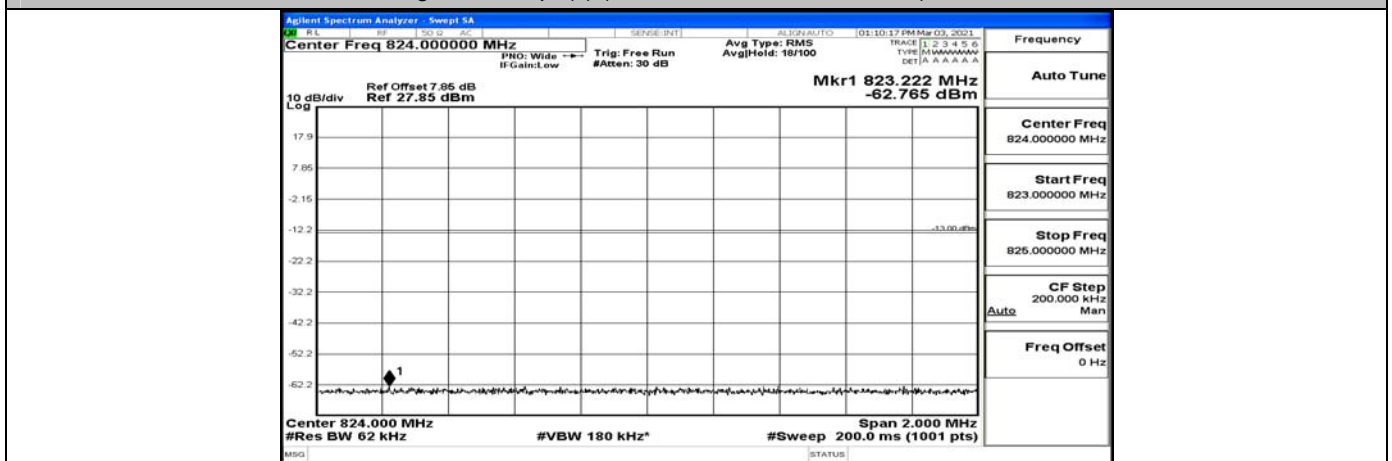


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

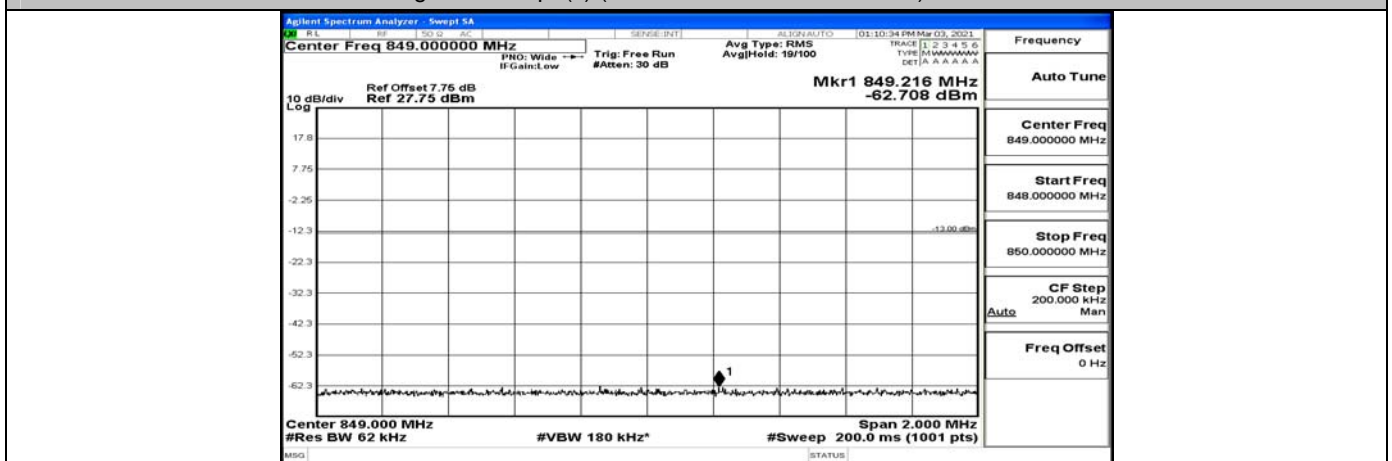


D.4 Band Edge

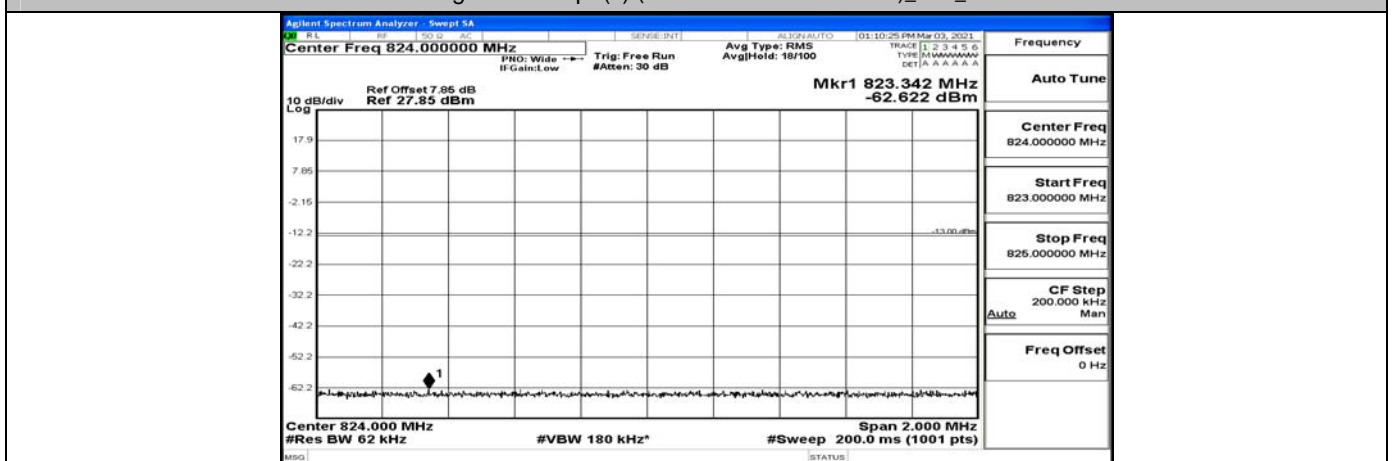
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



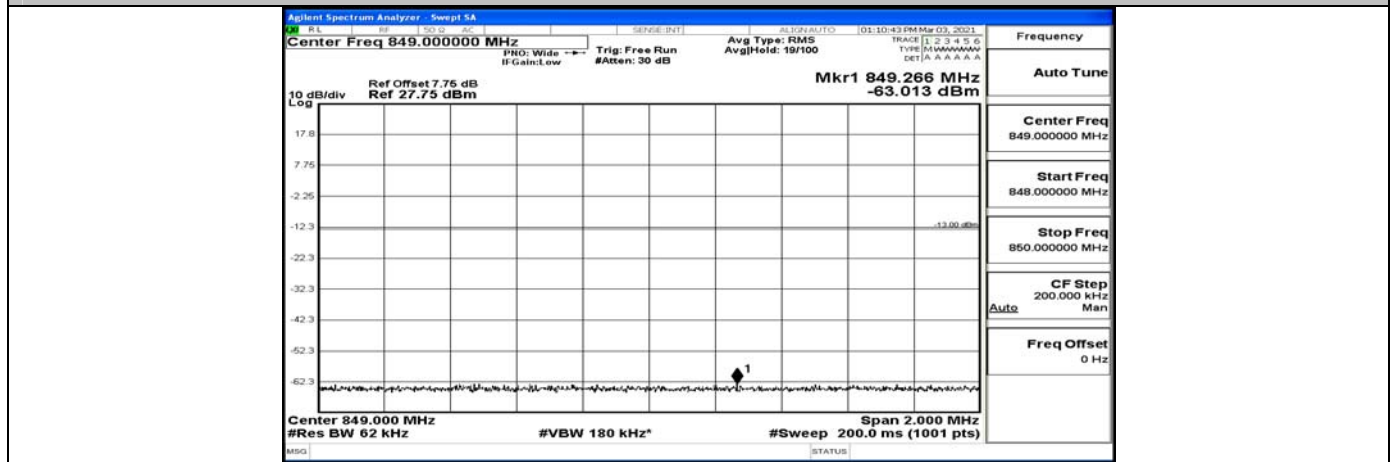
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



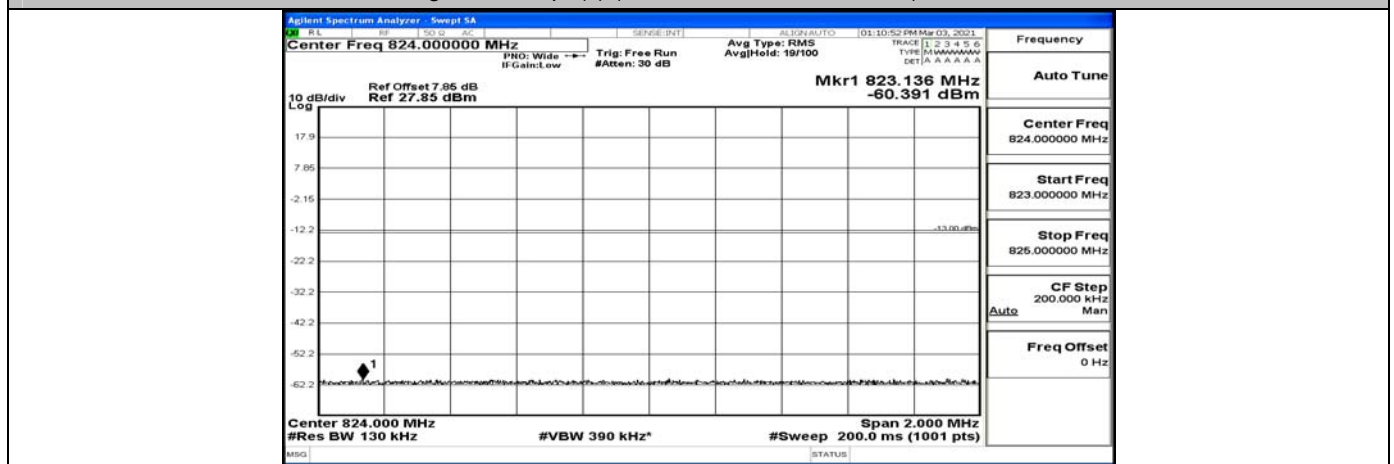
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



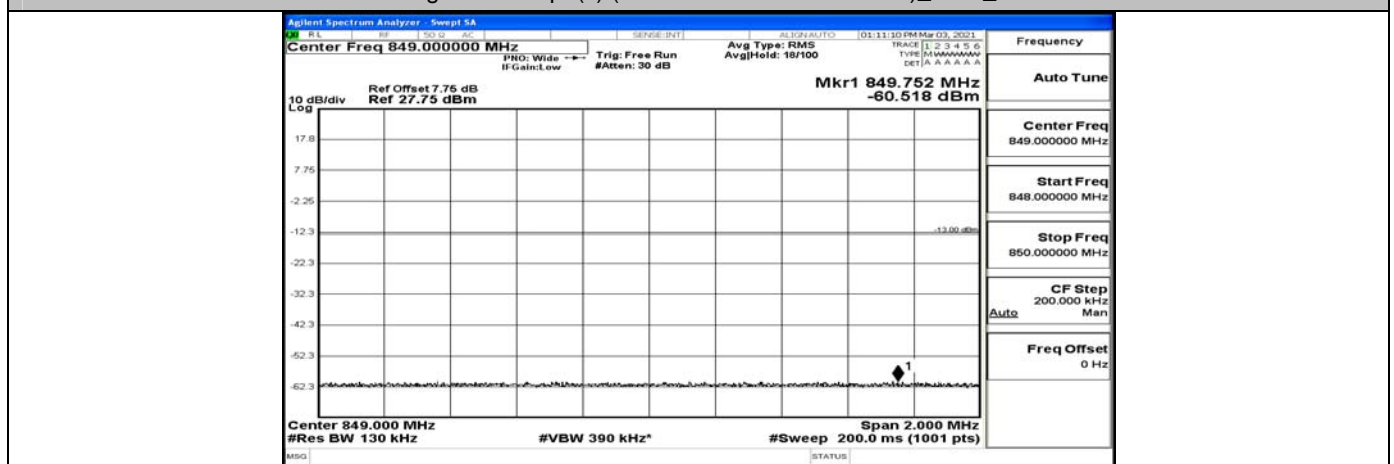
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



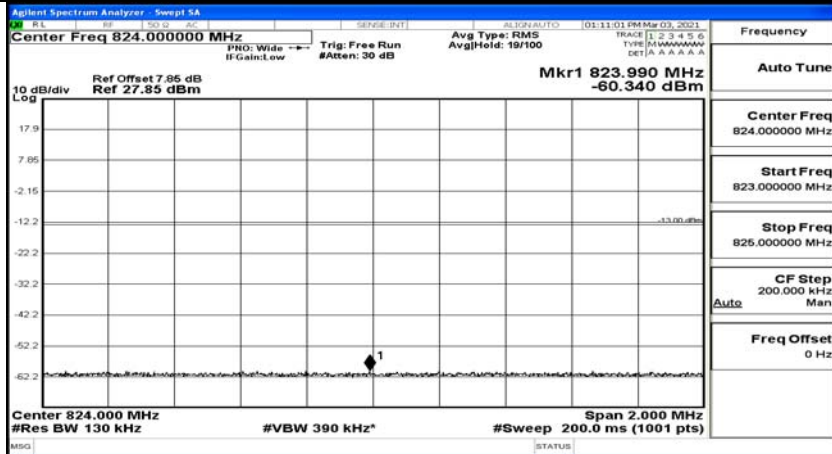
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



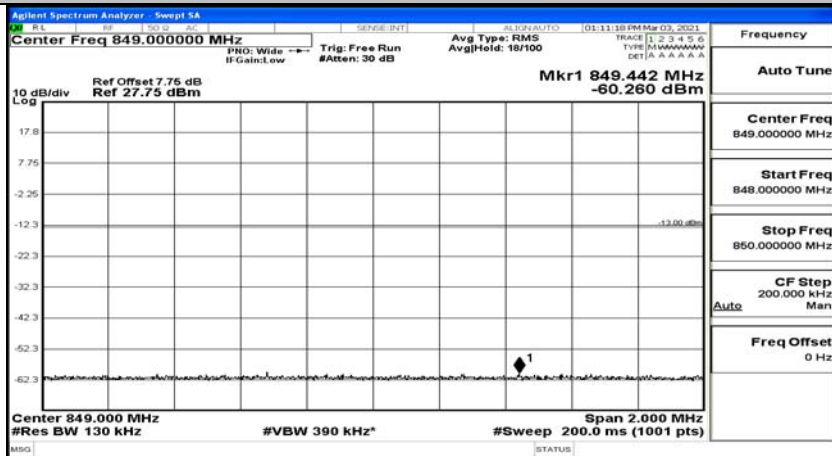
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



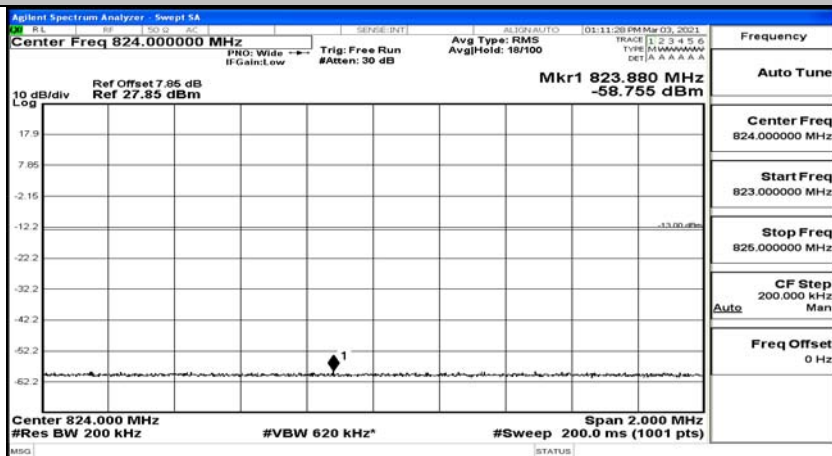
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



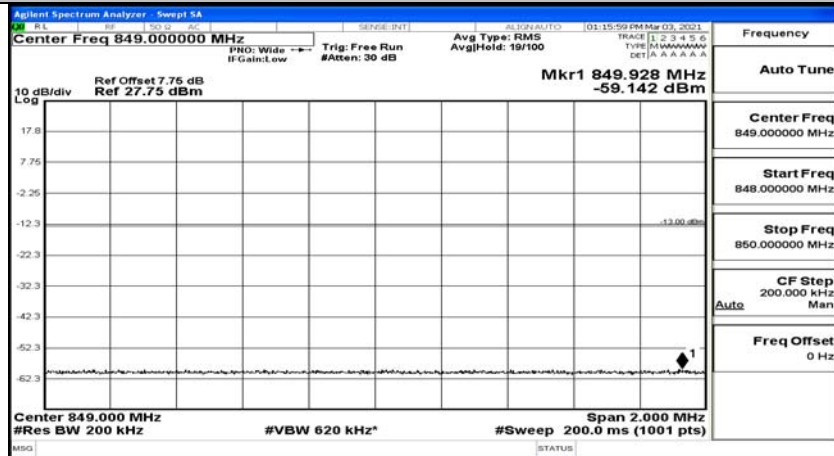
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



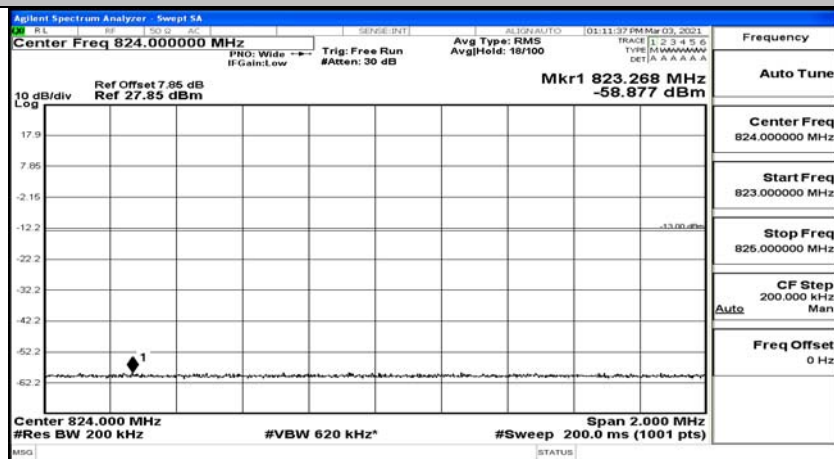
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



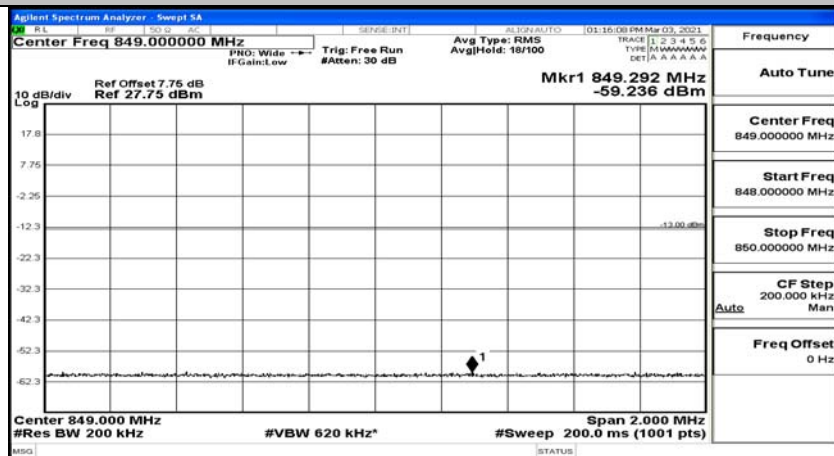
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



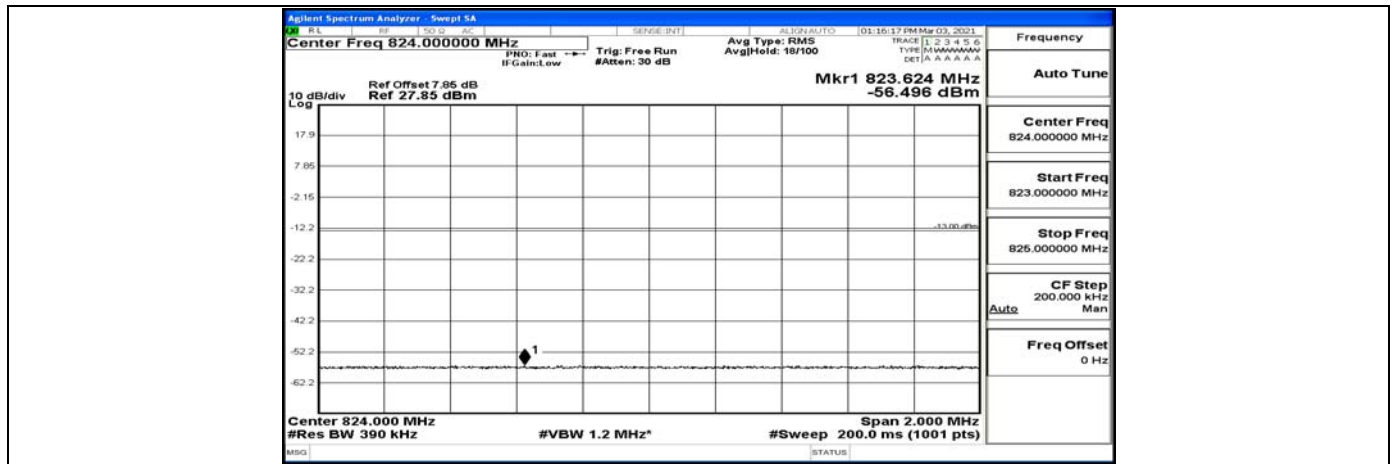
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



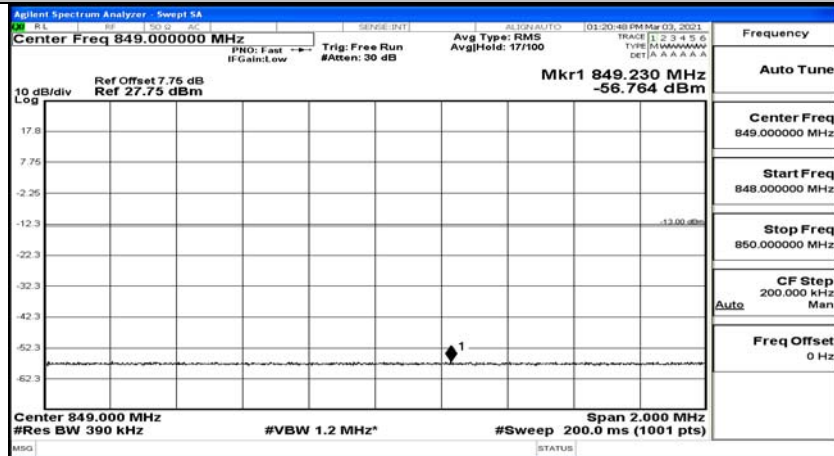
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



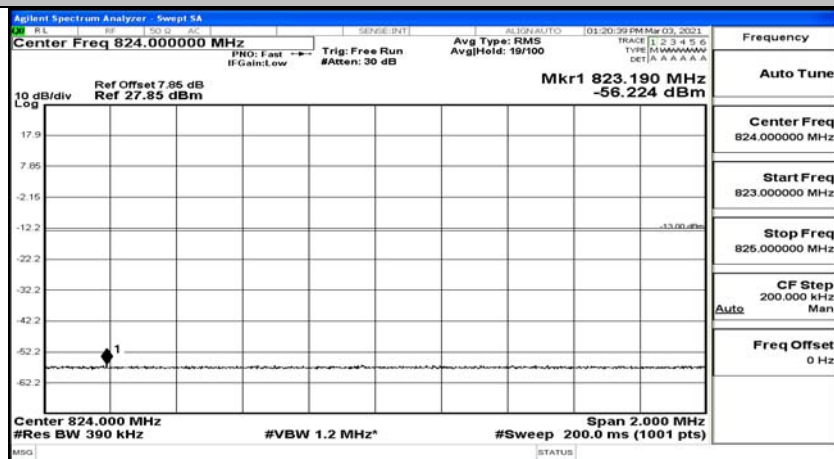
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



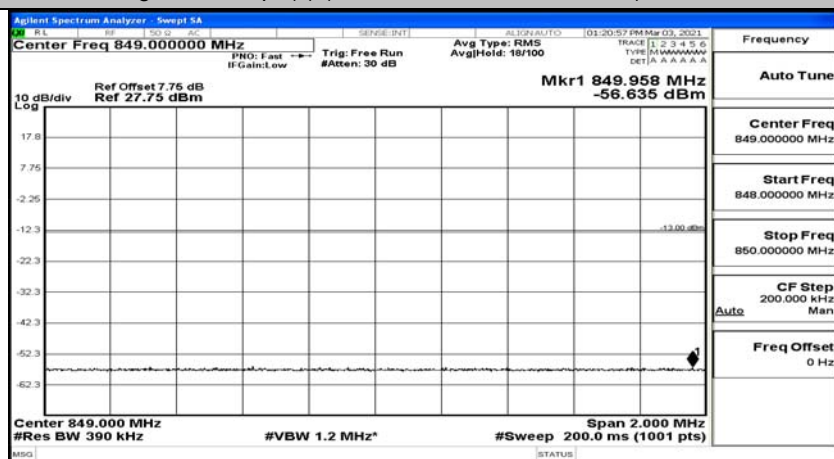
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



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

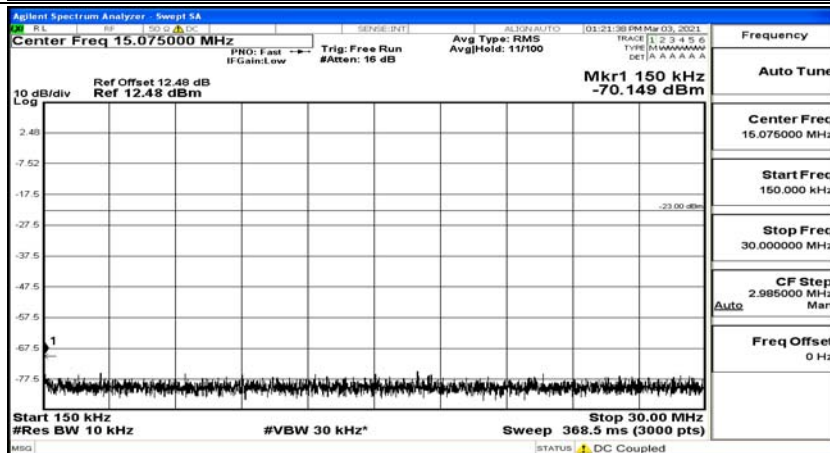
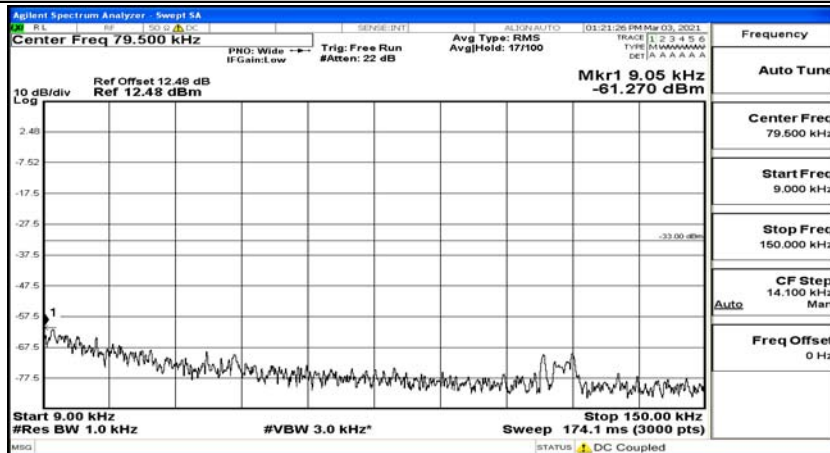


D.5 Conducted Spurious Emission

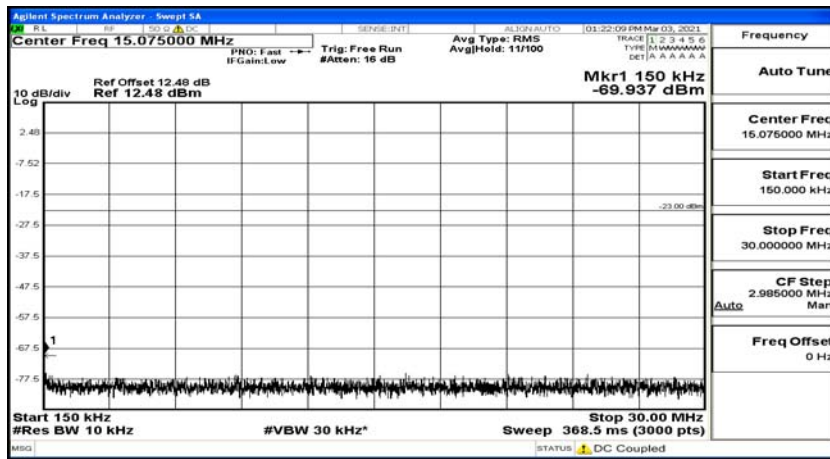
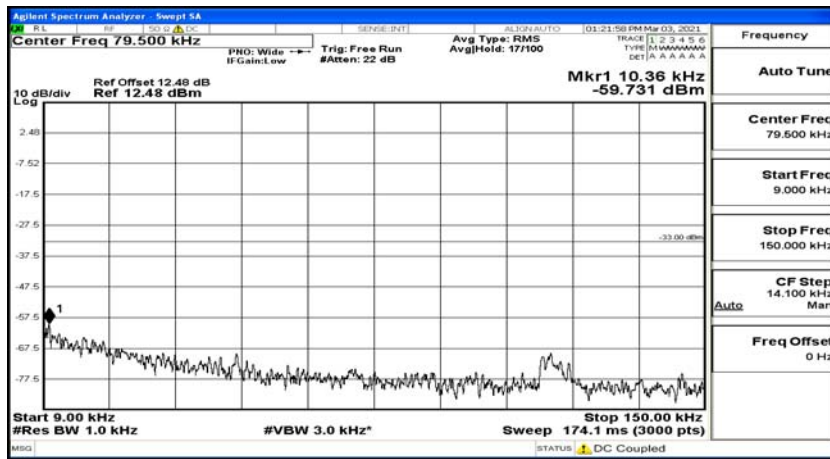
Test Graphs

Channel Bandwidth: 1.4 MHz

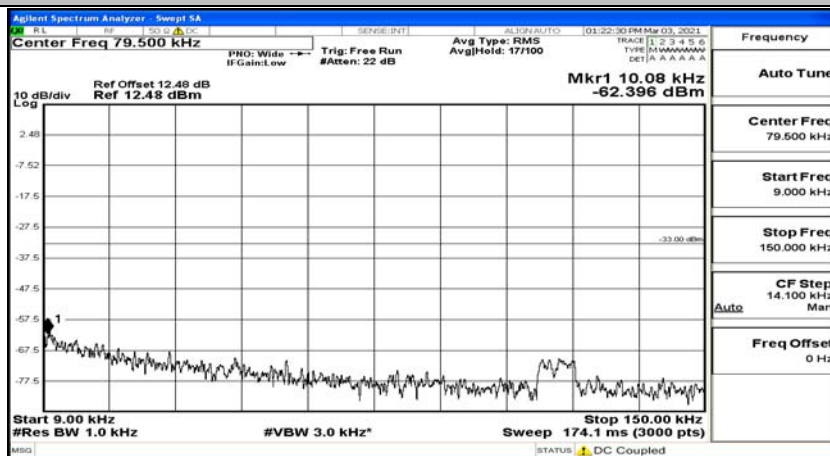
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

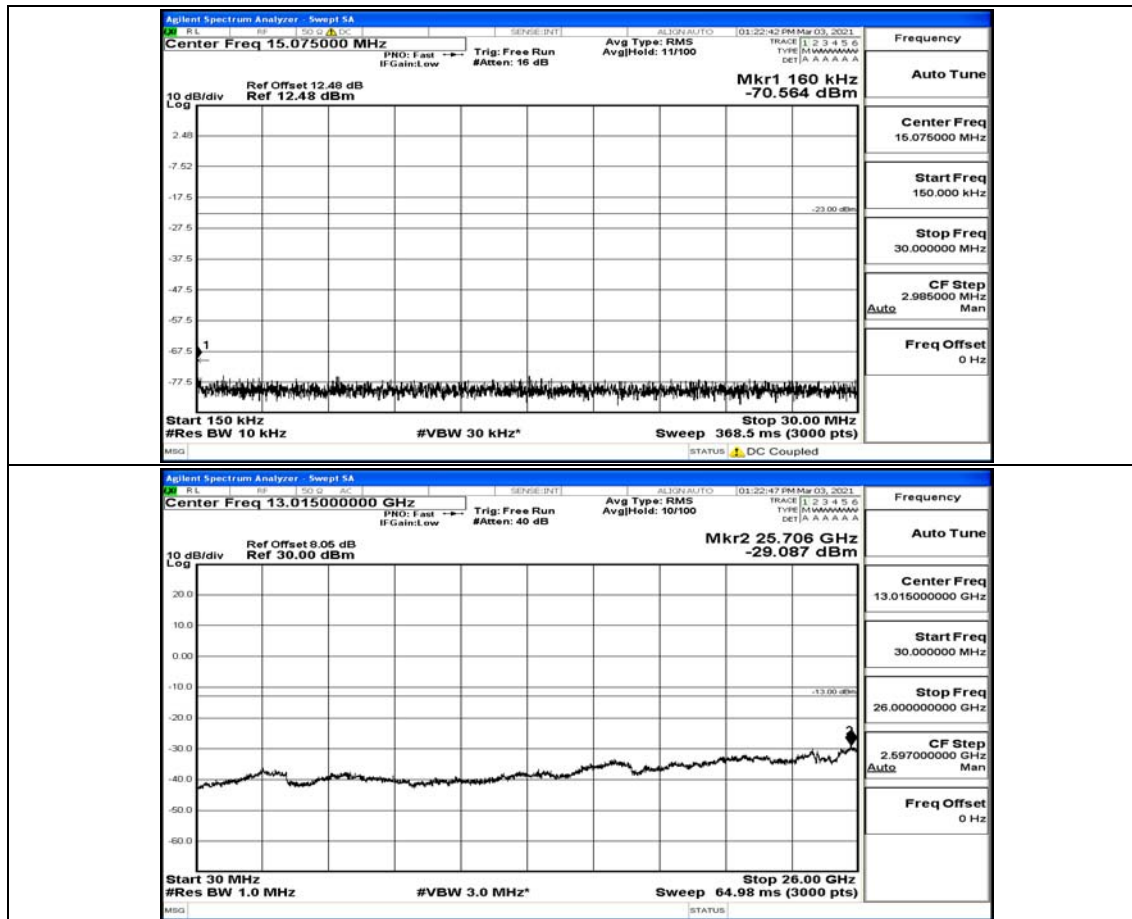


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

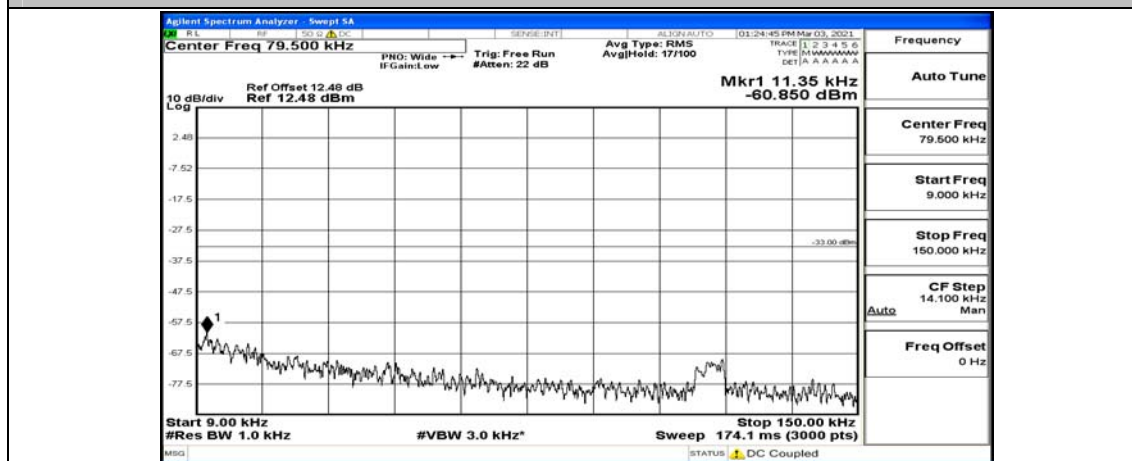


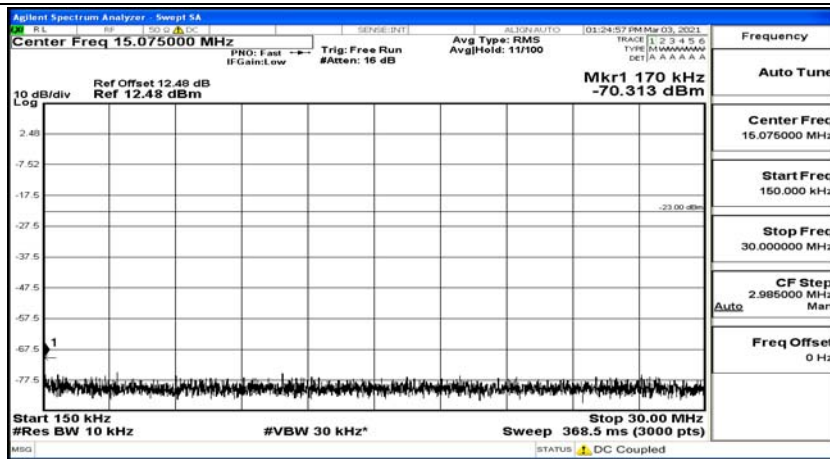
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



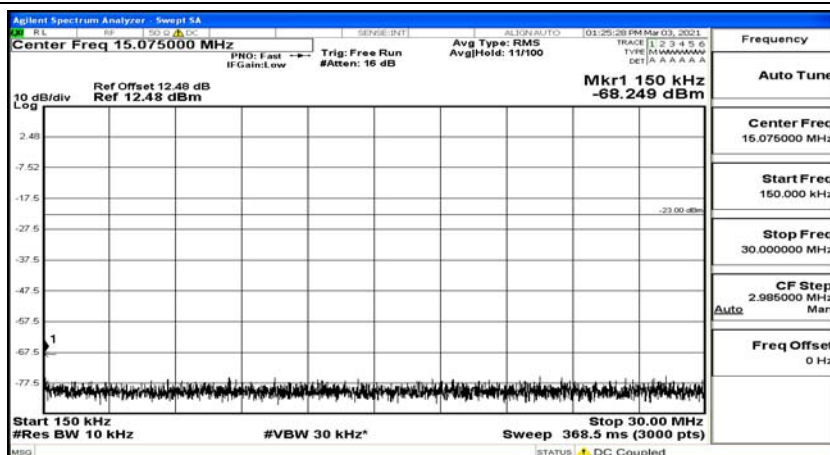
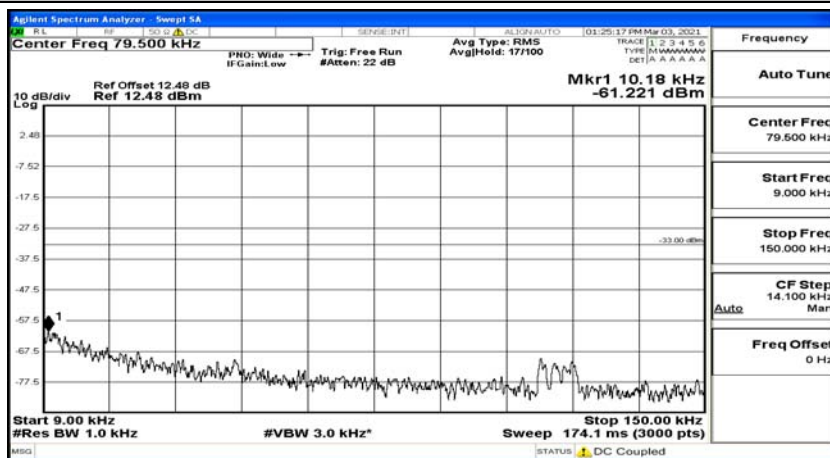


(Channel Bandwidth: 1.4 MHz)_MCH_OPSK_1RB#0



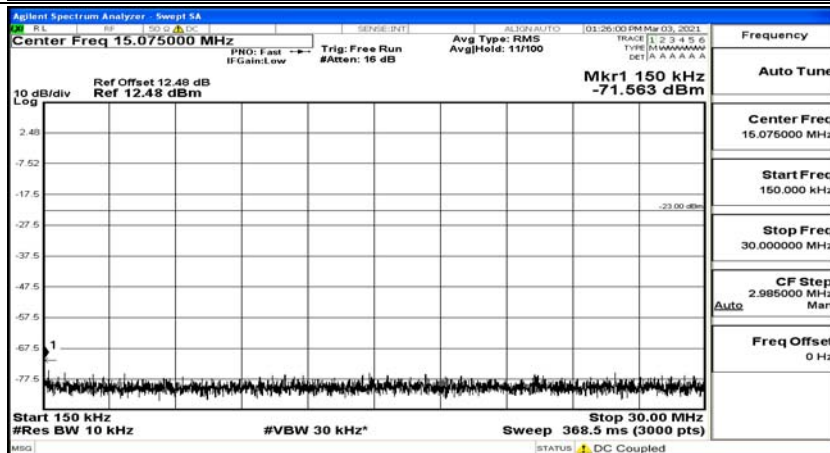
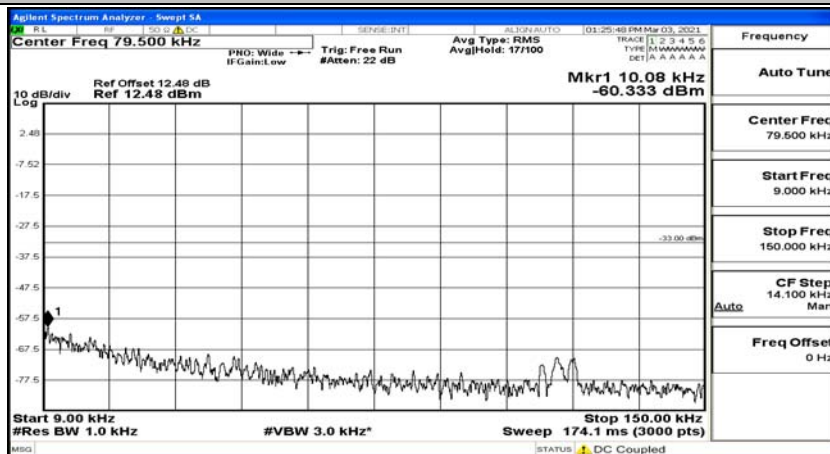


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

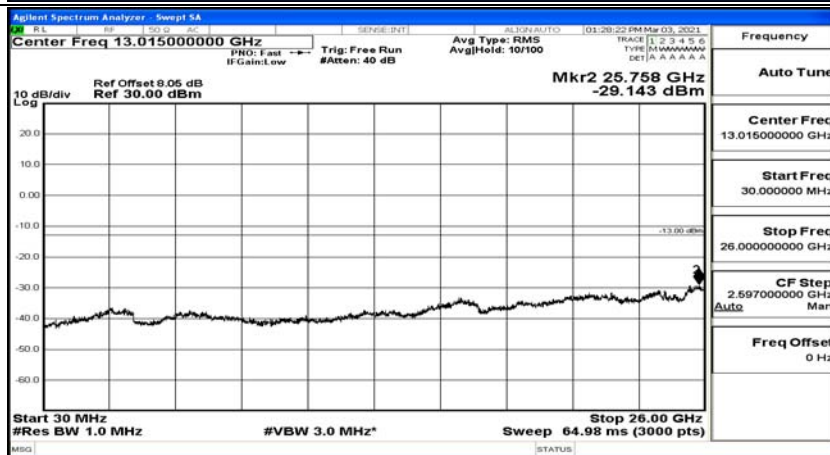
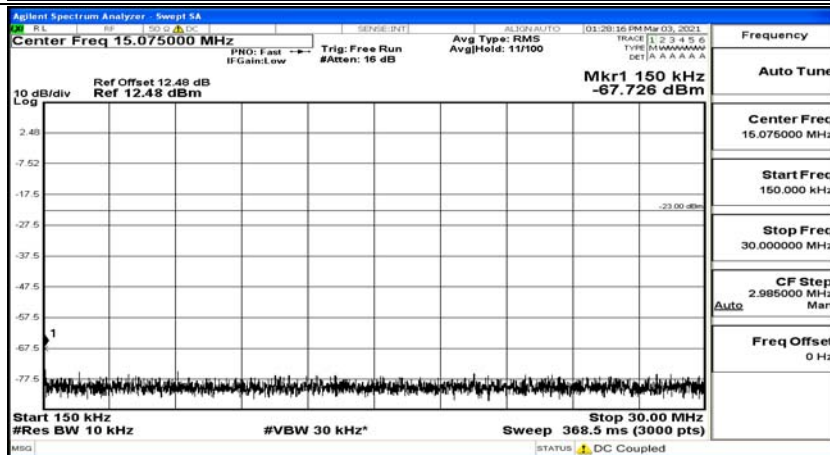
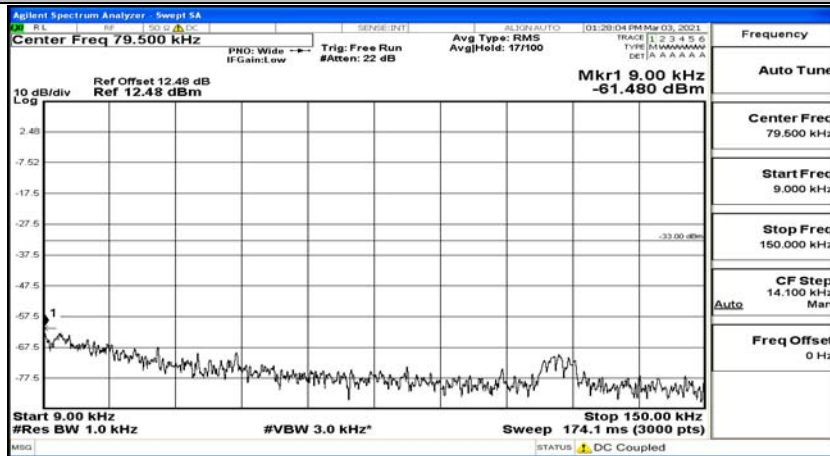




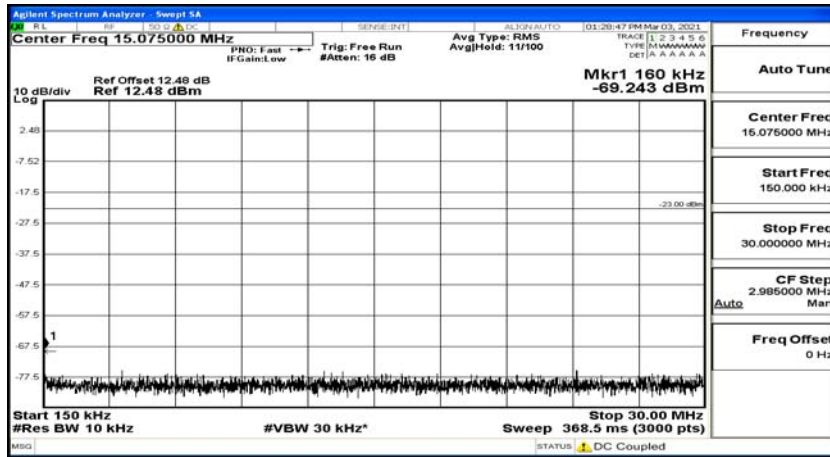
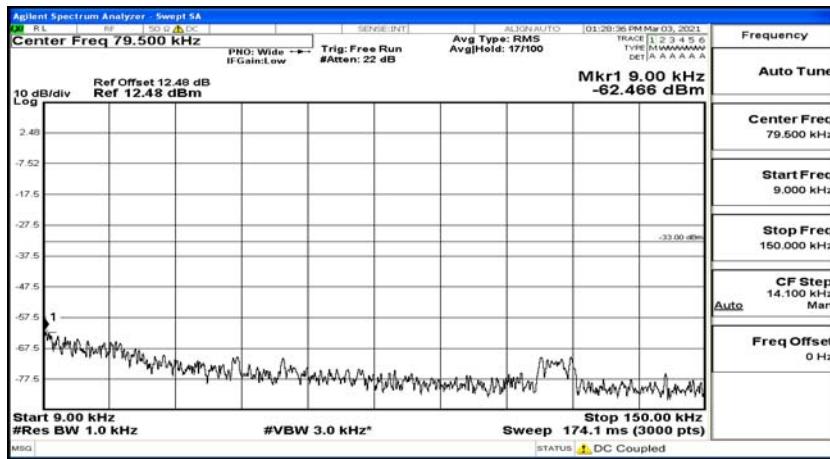
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



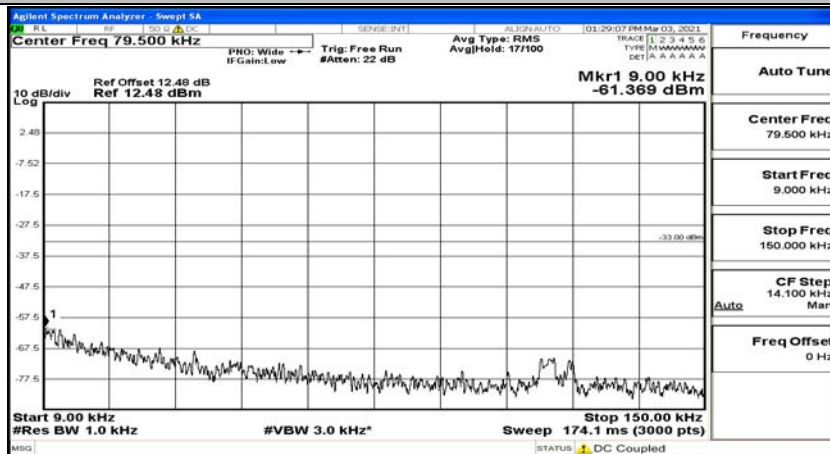
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

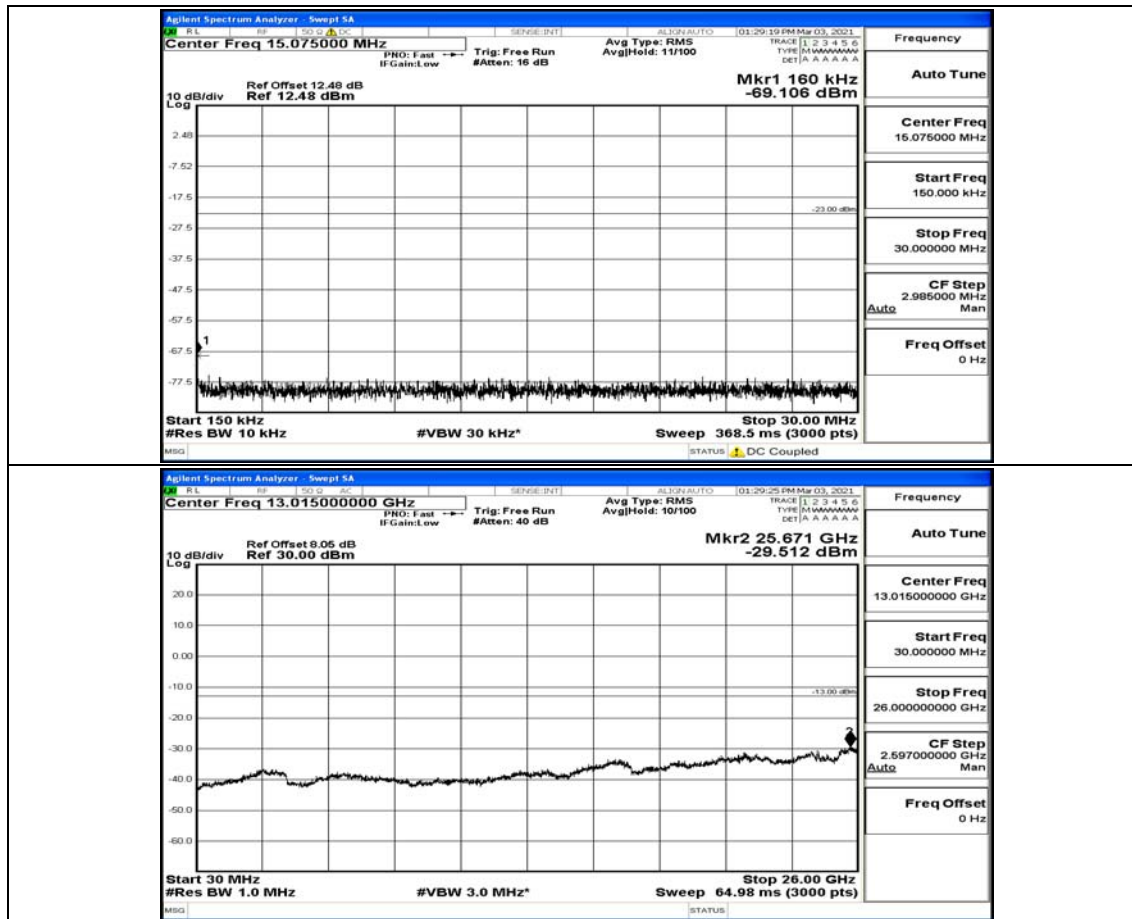


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3

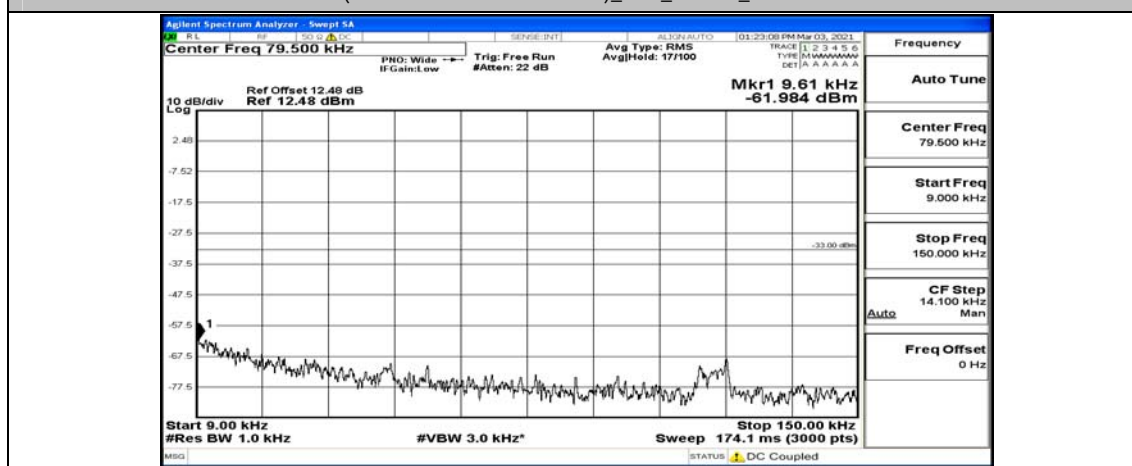


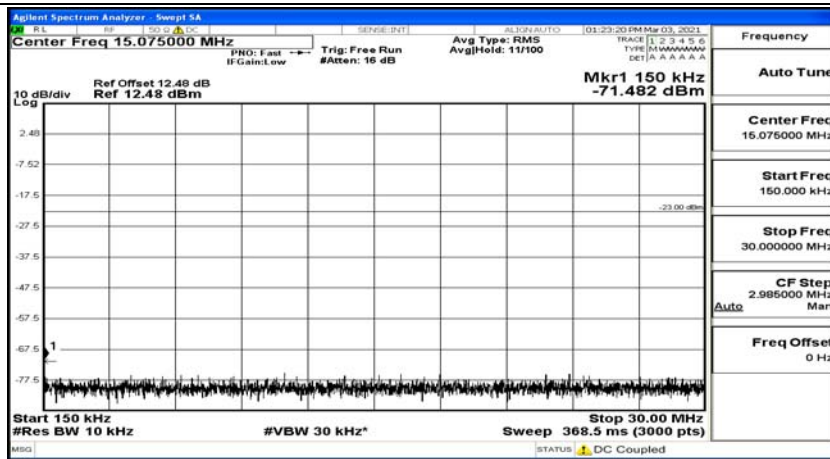
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



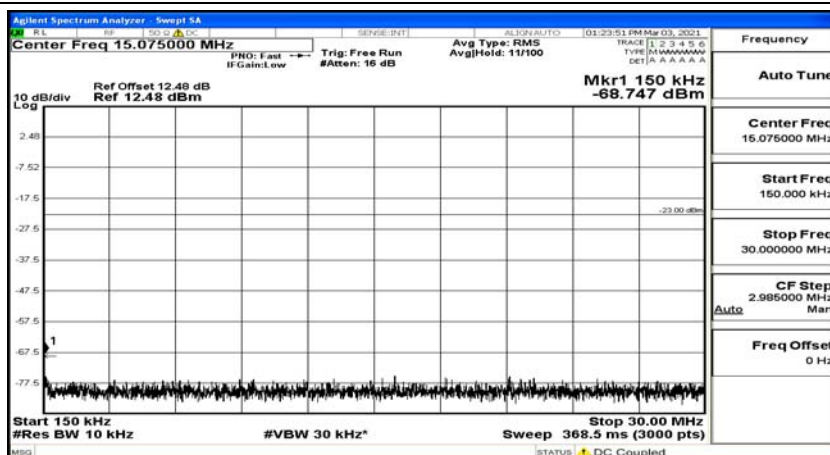
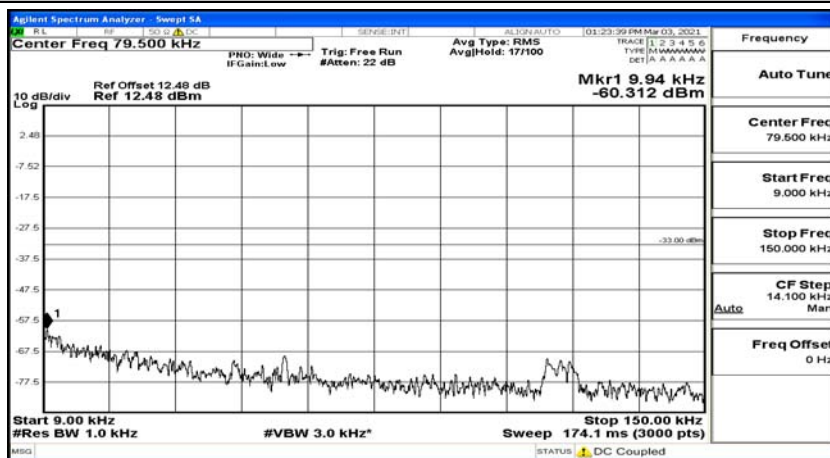


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



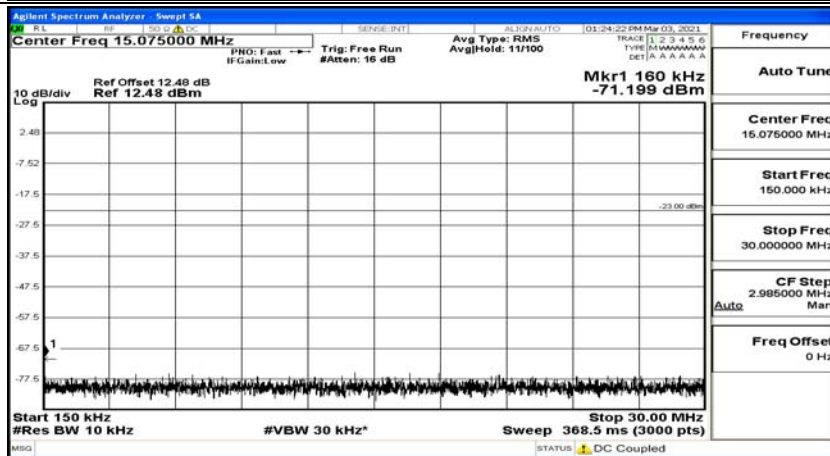
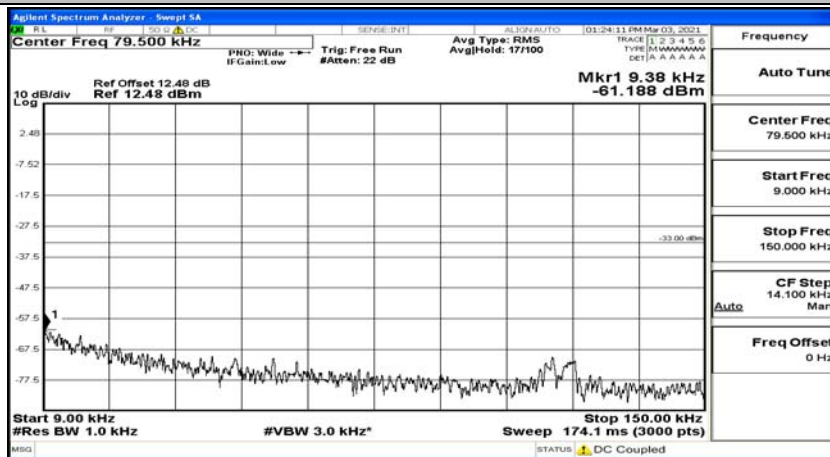


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

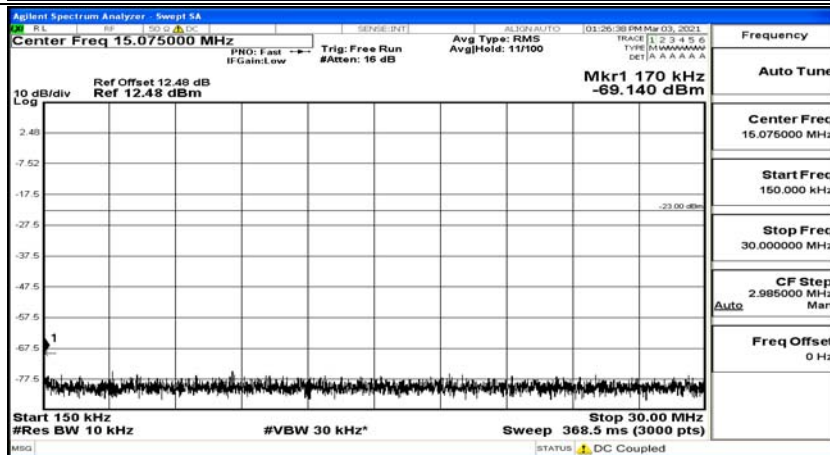
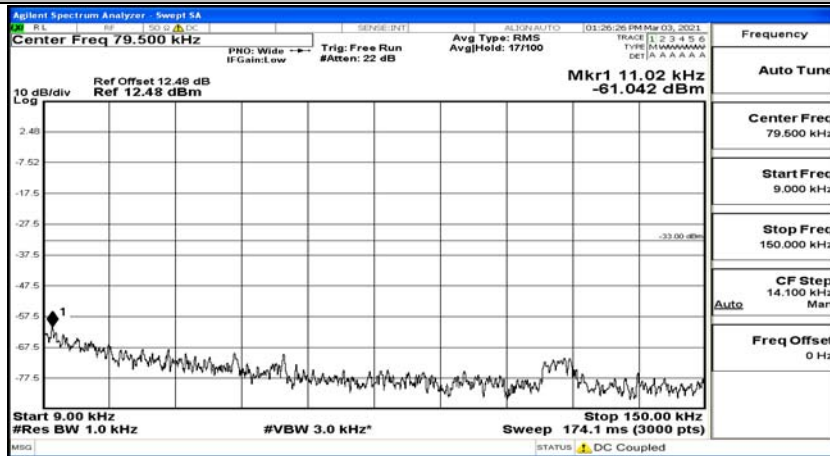




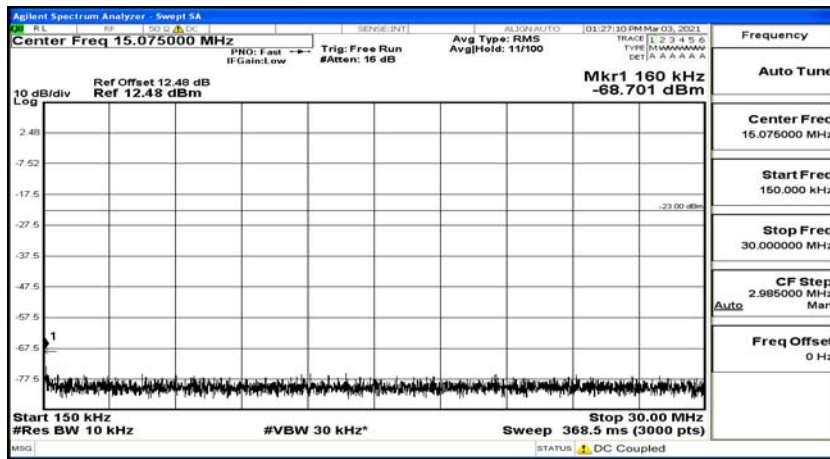
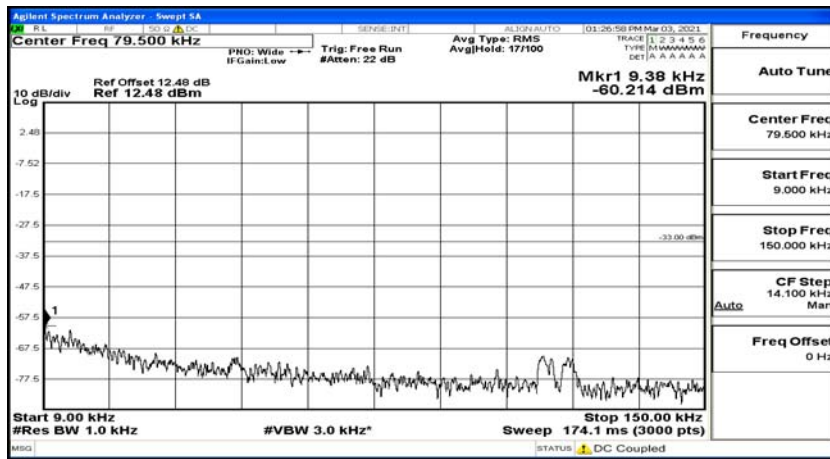
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



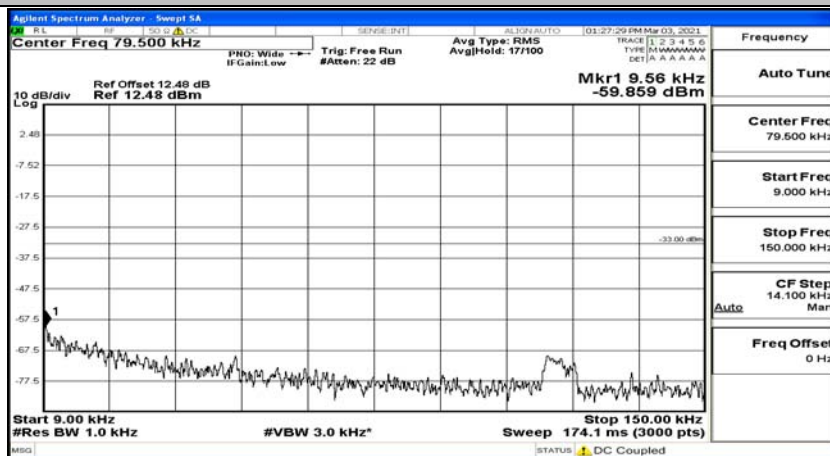
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

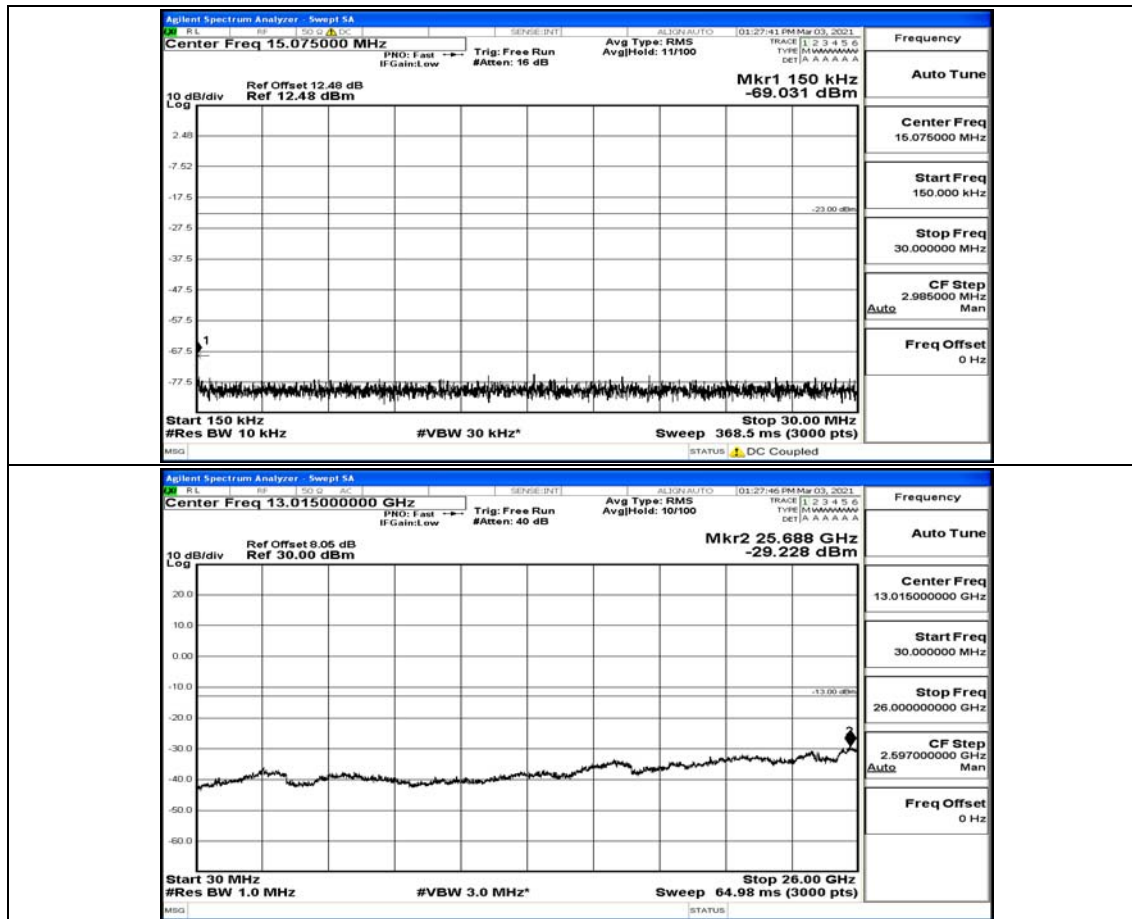


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

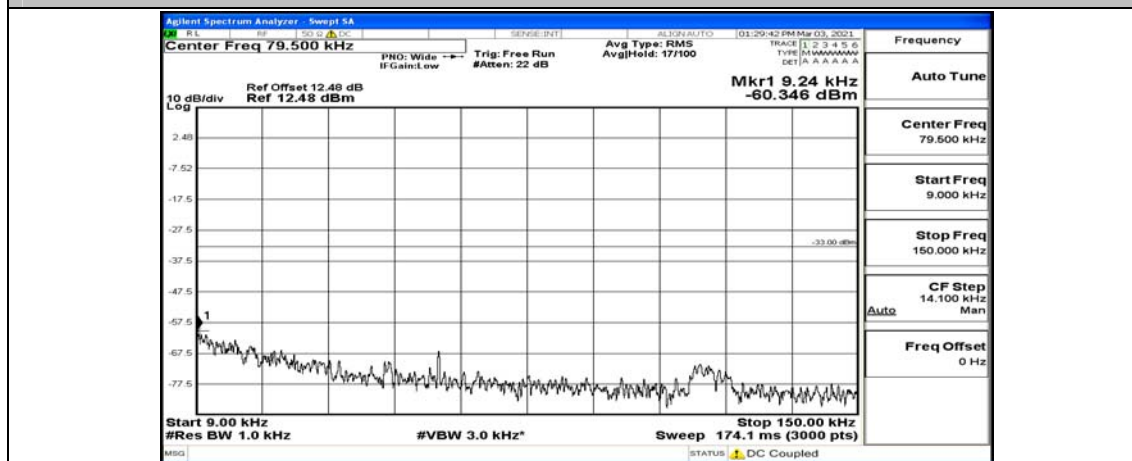


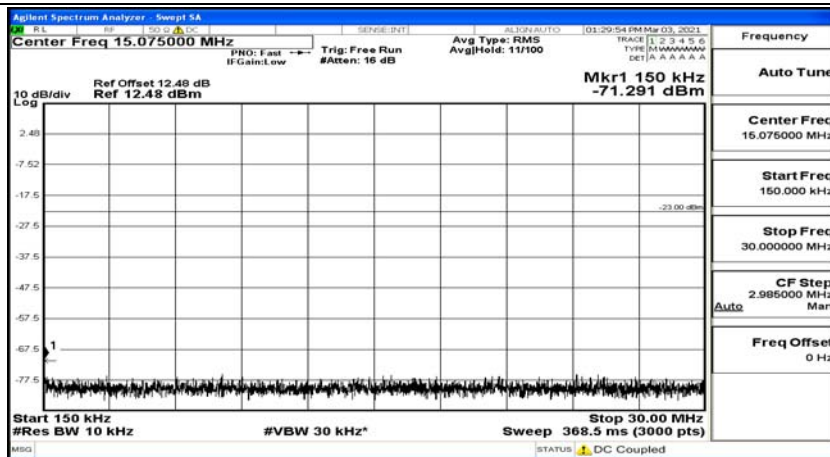
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5





(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0





(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3

