Appendix C: Test Data for E-UTRA Band 5

Product Name: VOREZA II
Trade Mark: VOREZA
Test Model: VOR2-IEC2-X04

Environmental Conditions

Temperature:	25° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

C.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	24.19	23.50	PASS
		1	3	24.08	23.24	PASS
		1	5	24.05	23.34	PASS
		3	0	23.79	22.91	PASS
		3	2	23.67	22.90	PASS
		3	3	23.79	22.72	PASS
		6	0	23.36	22.04	PASS
	MCH	1	0	24.16	22.98	PASS
		1	3	24.23	23.02	PASS
		1	5	24.16	22.97	PASS
		3	0	24.10	23.18	PASS
		3	2	24.18	23.12	PASS
		3	3	24.21	22.96	PASS
		6	0	23.36	22.35	PASS
	HCH	1	0	24.44	23.49	PASS
		1	3	24.48	23.62	PASS
		1	5	24.34	23.64	PASS
		3	0	24.39	23.60	PASS
		3	2	24.42	23.61	PASS
		3	3	24.33	23.54	PASS
		6	0	23.66	22.72	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	24.28	23.39	PASS
		1	7	24.24	23.50	PASS
		1	14	24.12	23.38	PASS
		8	0	23.39	22.07	PASS
		8	4	23.43	22.38	PASS
		8	7	23.45	22.46	PASS
		15	0	23.38	22.27	PASS
	MCH	1	0	24.06	23.47	PASS
		1	7	24.20	23.69	PASS
		1	14	24.04	23.43	PASS
		8	0	23.20	22.20	PASS
		8	4	23.31	22.24	PASS
		8	7	23.20	22.16	PASS
		15	0	23.19	22.12	PASS
	HCH	1	0	24.20	23.83	PASS
		1	7	24.46	23.78	PASS
		1	14	24.36	23.81	PASS
		8	0	23.47	22.59	PASS
		8	4	23.57	22.66	PASS
		8	7	23.71	22.77	PASS
		15	0	23.57	22.77	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	24.25	22.93	PASS
		1	12	24.19	23.00	PASS
		1	24	24.45	23.00	PASS
		12	0	23.25	22.11	PASS
		12	6	23.44	22.28	PASS
		12	13	23.19	22.31	PASS
		25	0	23.32	22.49	PASS
	MCH	1	0	24.16	23.03	PASS
		1	12	24.49	23.35	PASS
		1	24	24.22	23.06	PASS
		12	0	23.25	22.09	PASS
		12	6	23.13	21.91	PASS
		12	13	23.13	22.05	PASS
		25	0	23.08	22.30	PASS
	HCH	1	0	24.21	22.93	PASS
		1	12	24.78	23.23	PASS
		1	24	24.45	23.15	PASS
		12	0	23.27	22.26	PASS
		12	6	23.48	22.40	PASS
		12	13	23.48	22.34	PASS
		25	0	23.44	22.51	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.90	23.17	PASS
		1	24	24.97	24.35	PASS
		1	49	24.00	23.37	PASS
		25	0	23.38	22.17	PASS
		25	12	23.41	22.44	PASS
		25	25	23.30	22.18	PASS
		50	0	23.29	22.30	PASS
	MCH	1	0	24.17	23.64	PASS
		1	24	24.48	23.82	PASS
		1	49	23.91	23.41	PASS
		25	0	23.25	22.30	PASS
		25	12	23.28	22.33	PASS
		25	25	23.13	22.02	PASS
		50	0	23.19	22.29	PASS
	HCH	1	0	24.08	23.55	PASS
		1	24	24.46	23.68	PASS
		1	49	24.08	23.51	PASS
		25	0	23.33	22.47	PASS
		25	12	23.22	22.37	PASS
		25	25	23.42	22.34	PASS
		50	0	23.39	22.39	PASS

C.2 Peak-to-Average Ratio

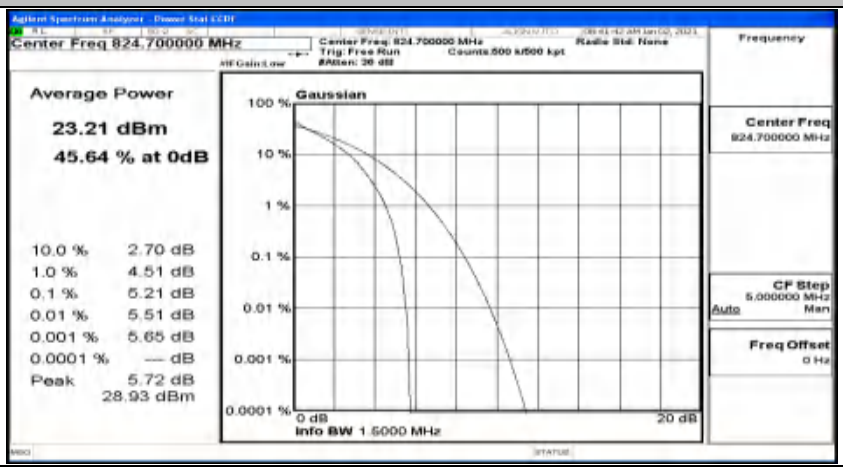
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.21	<13	PASS
	MCH	5.22	<13	PASS
	HCH	4.7	<13	PASS
16QAM	LCH	6.03	<13	PASS
	MCH	6.13	<13	PASS
	HCH	5.61	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.31	<13	PASS
	MCH	5.23	<13	PASS
	HCH	4.96	<13	PASS
16QAM	LCH	6.24	<13	PASS
	MCH	6.09	<13	PASS
	HCH	5.68	<13	PASS

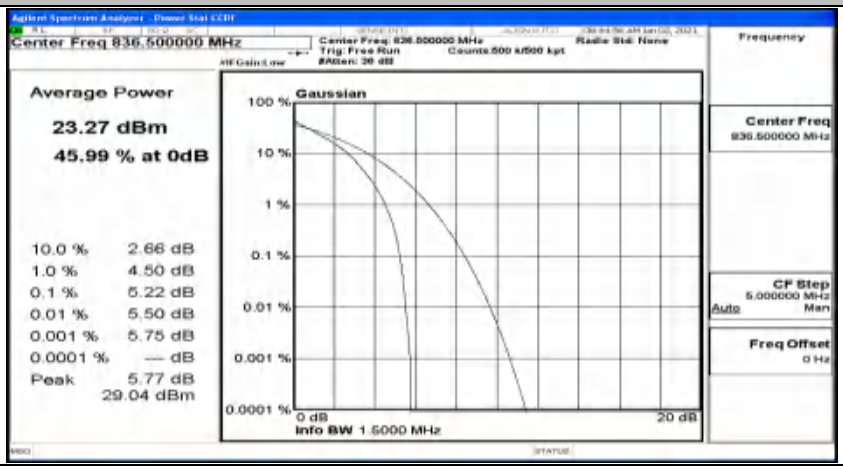
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.24	<13	PASS
	MCH	5.17	<13	PASS
	HCH	4.89	<13	PASS
16QAM	LCH	6.01	<13	PASS
	MCH	6.01	<13	PASS
	HCH	5.74	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.09	<13	PASS
	MCH	5.19	<13	PASS
	HCH	5.07	<13	PASS
16QAM	LCH	5.97	<13	PASS
	MCH	5.98	<13	PASS
	HCH	5.88	<13	PASS

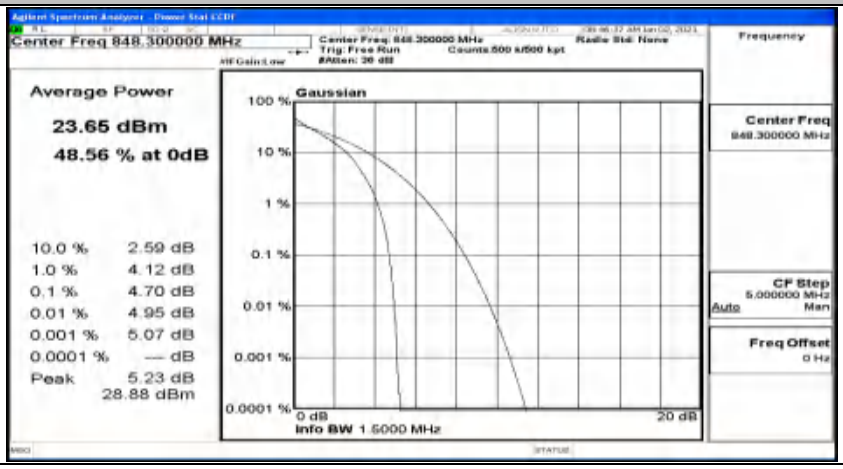
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



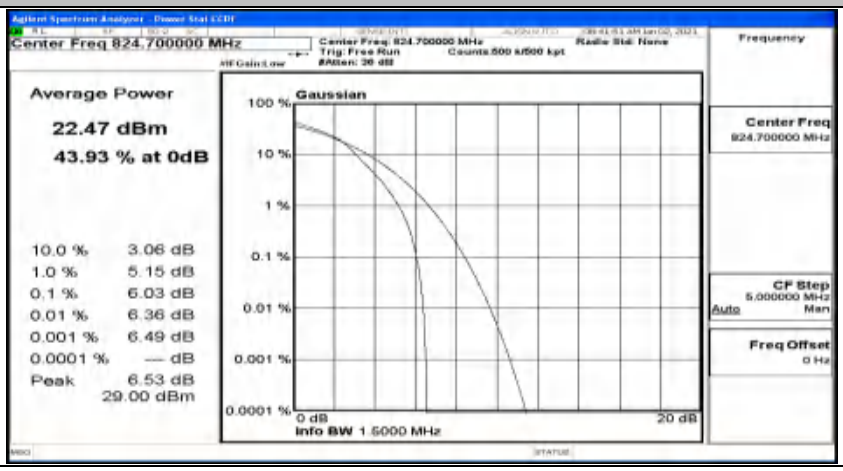
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



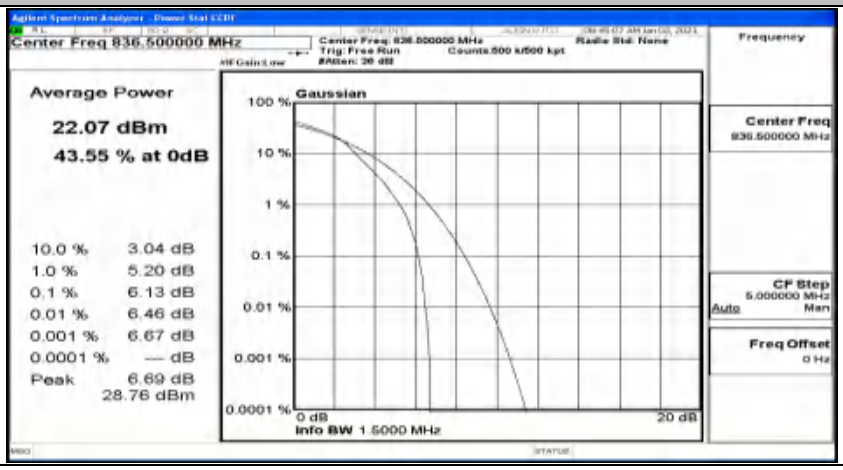
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



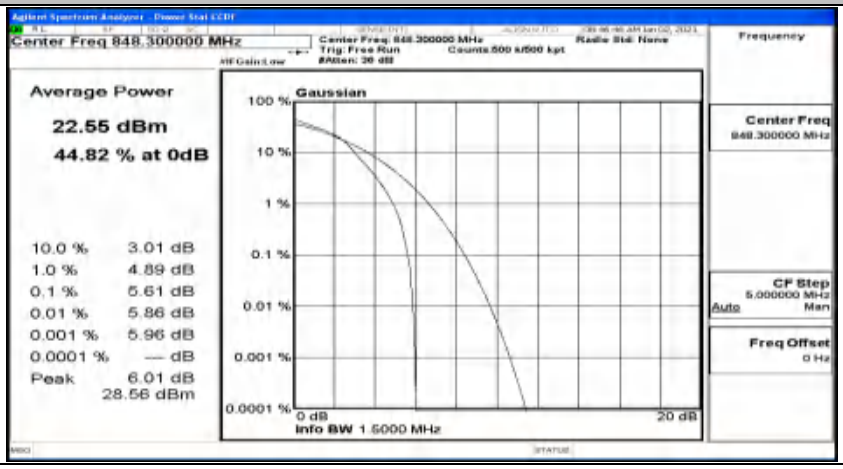
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



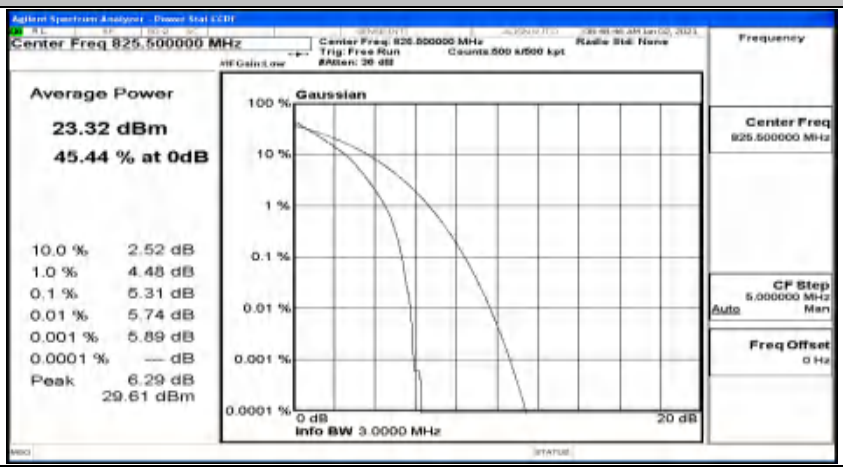
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



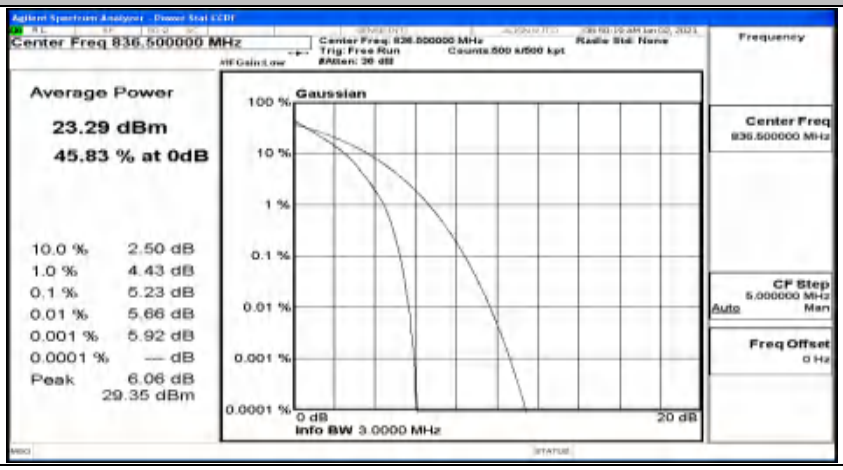
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



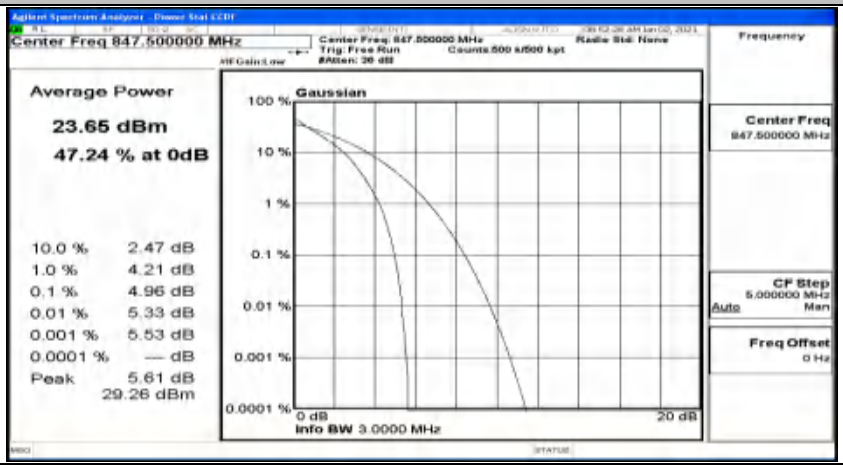
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



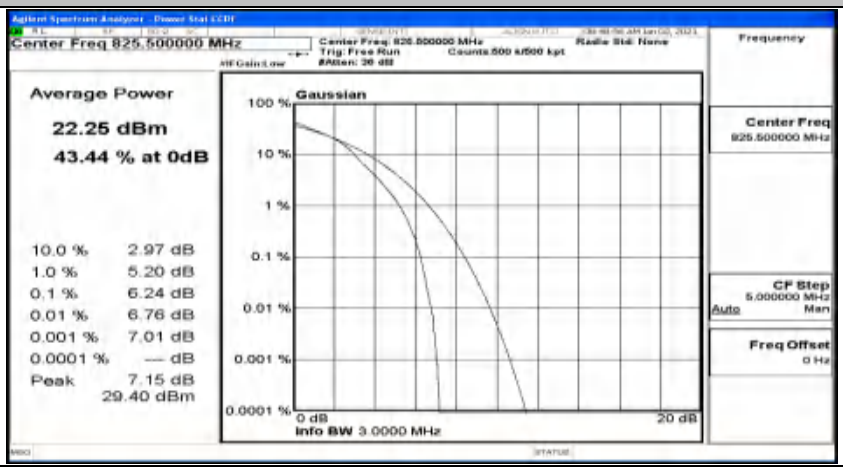
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



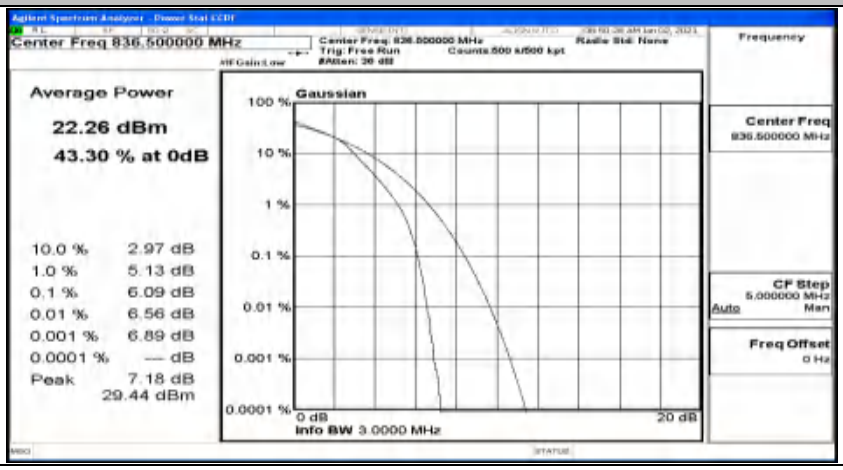
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



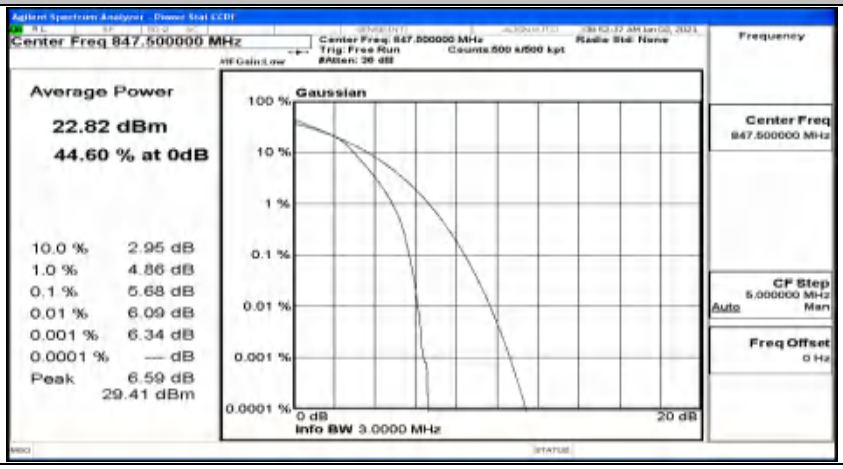
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



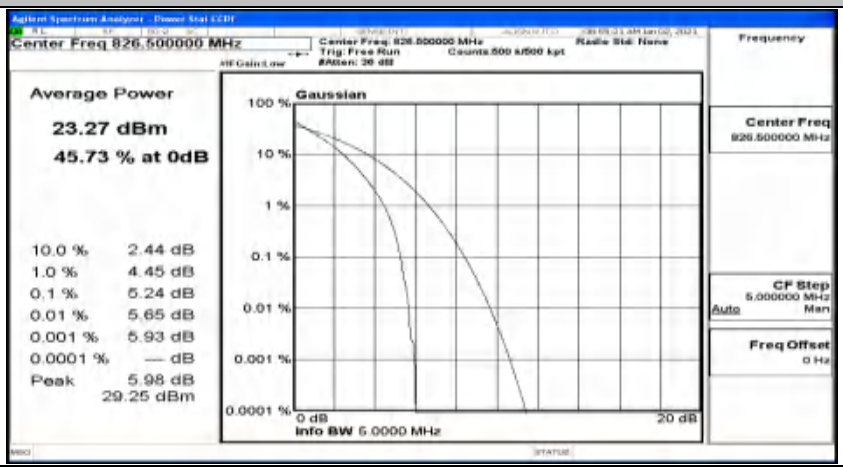
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



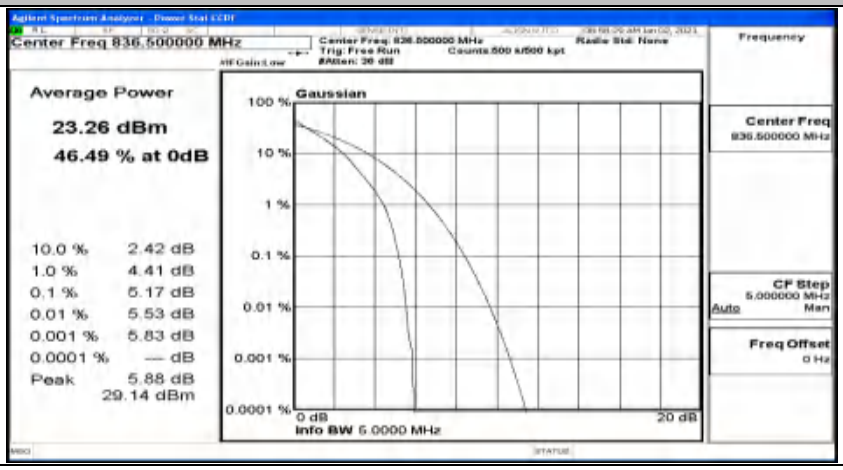
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



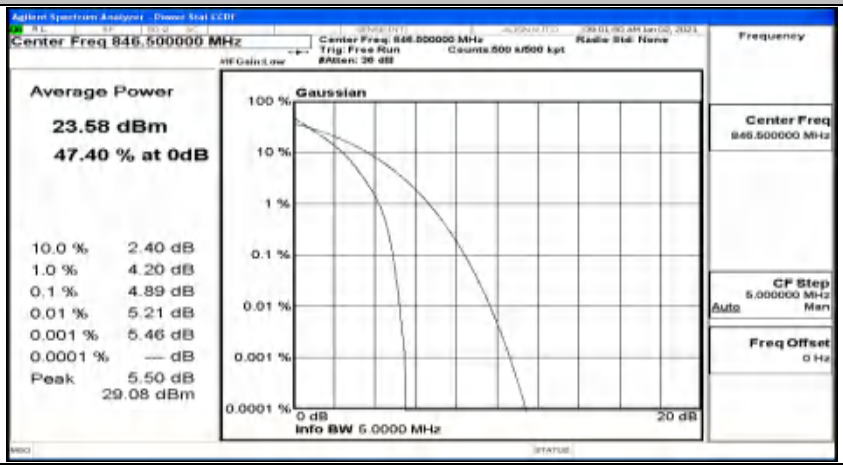
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



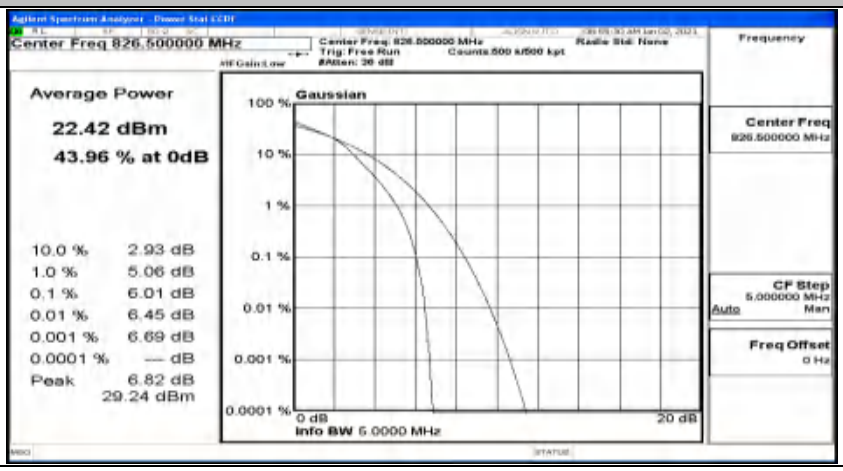
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



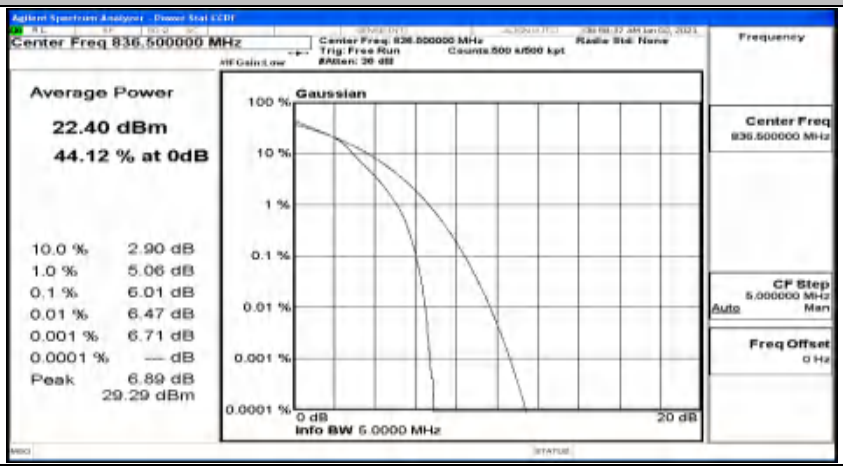
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



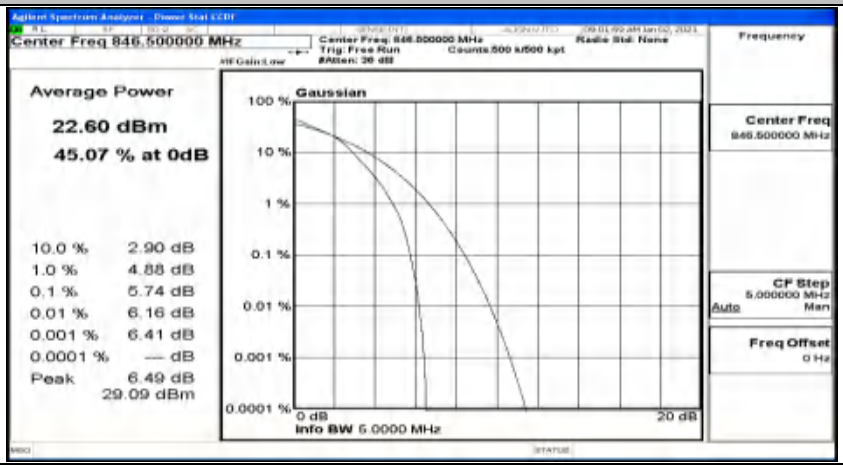
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



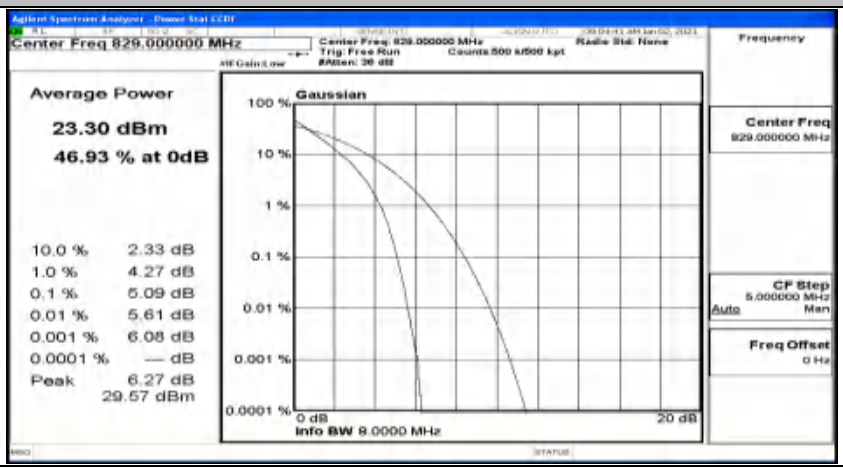
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



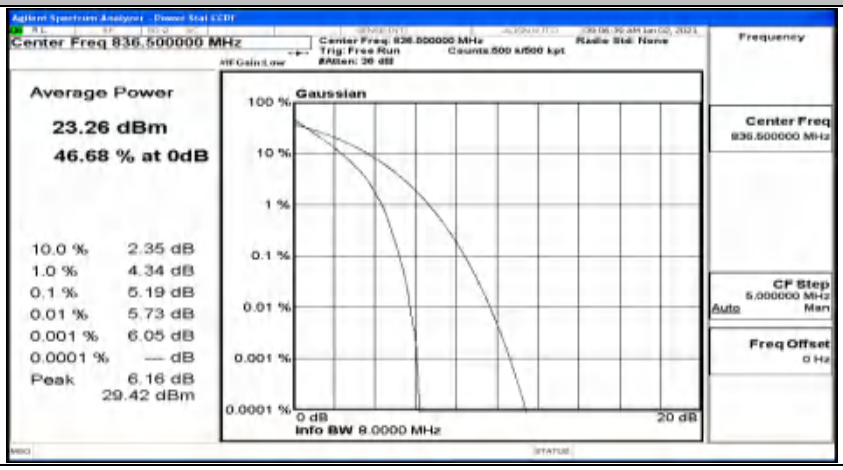
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



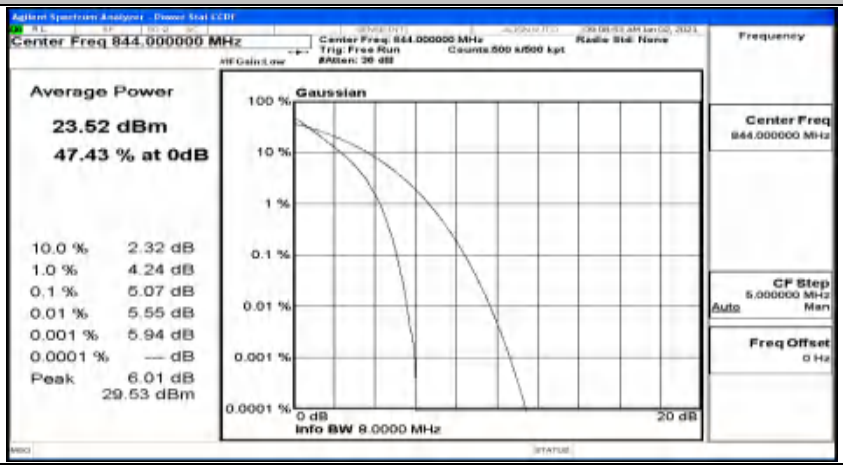
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



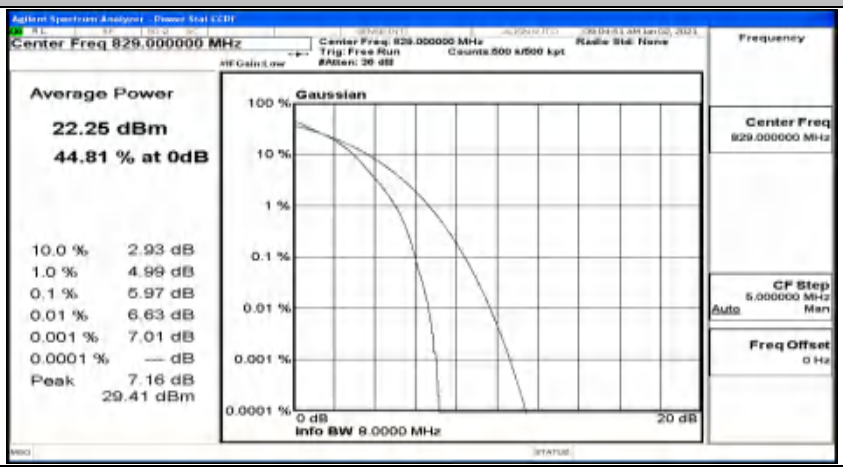
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



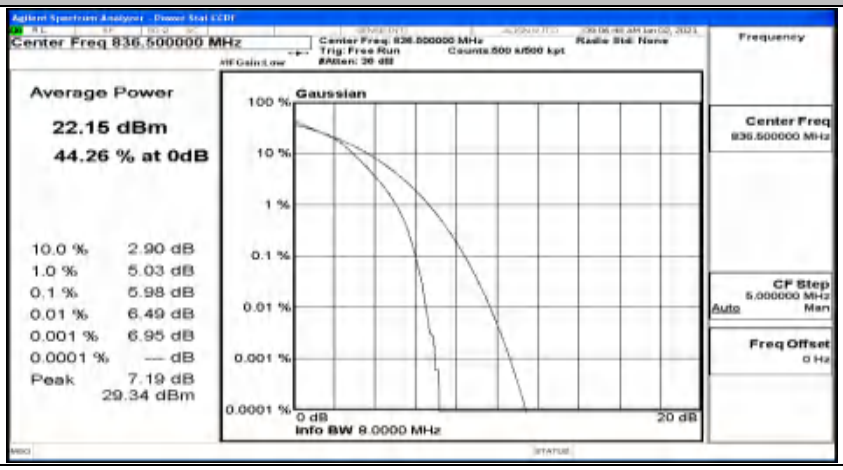
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



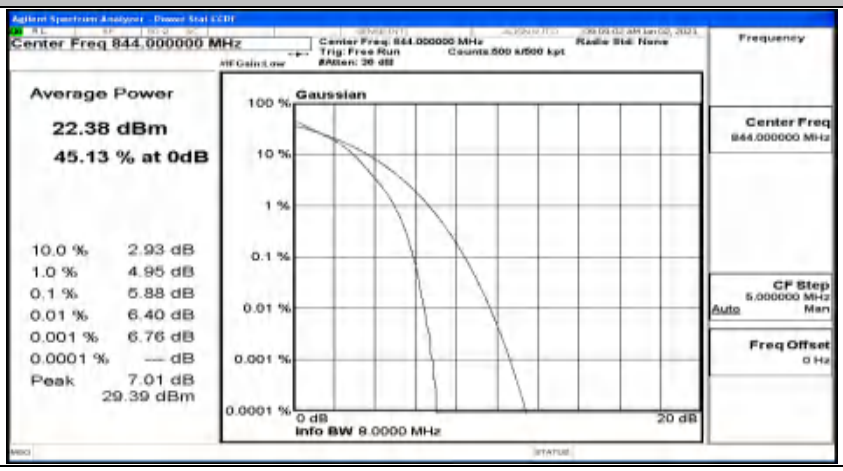
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



C.3 26dB Bandwidth and Occupied Bandwidth

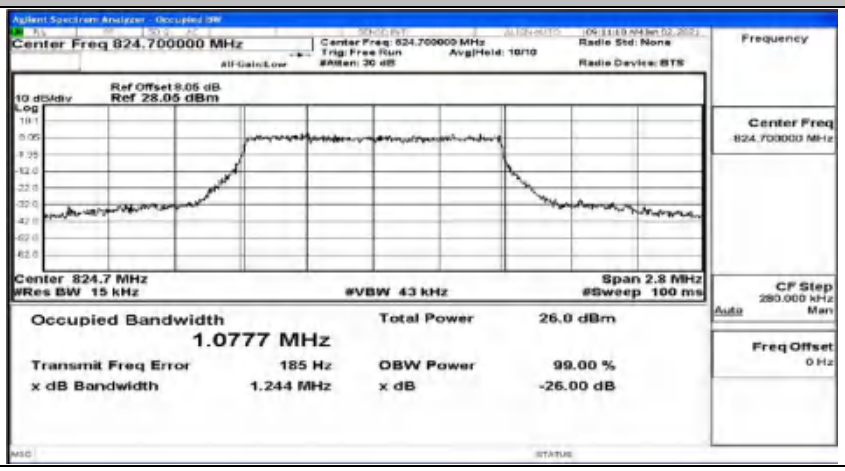
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0777	1.244	PASS
	MCH	1.0738	1.226	PASS
	HCH	1.0768	1.229	PASS
16QAM	LCH	1.0797	1.240	PASS
	MCH	1.0809	1.225	PASS
	HCH	1.0784	1.214	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6859	2.863	PASS
	MCH	2.6834	2.893	PASS
	HCH	2.6830	2.886	PASS
16QAM	LCH	2.6919	2.889	PASS
	MCH	2.6865	2.878	PASS
	HCH	2.6806	2.895	PASS

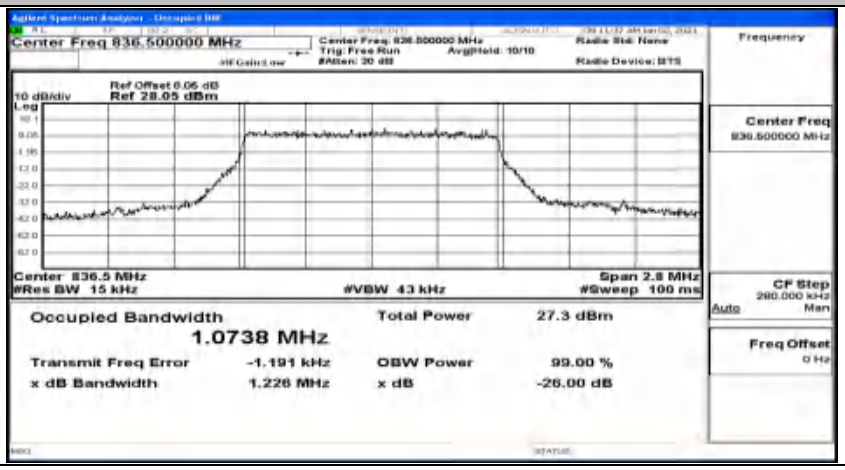
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4797	4.838	PASS
	MCH	4.4722	4.841	PASS
	HCH	4.4686	4.796	PASS
16QAM	LCH	4.4812	4.802	PASS
	MCH	4.4737	4.765	PASS
	HCH	4.4706	4.810	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9252	9.459	PASS
	MCH	8.9176	9.425	PASS
	HCH	8.9272	9.384	PASS
16QAM	LCH	8.9215	9.442	PASS
	MCH	8.9309	9.436	PASS
	HCH	8.9089	9.398	PASS

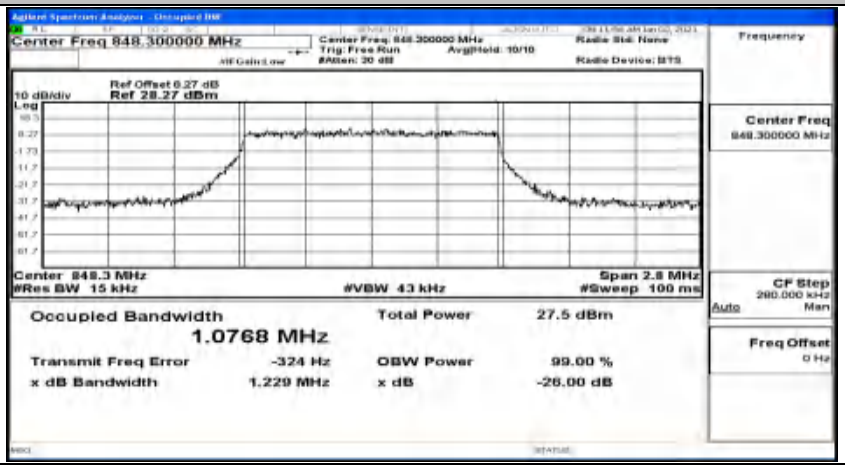
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



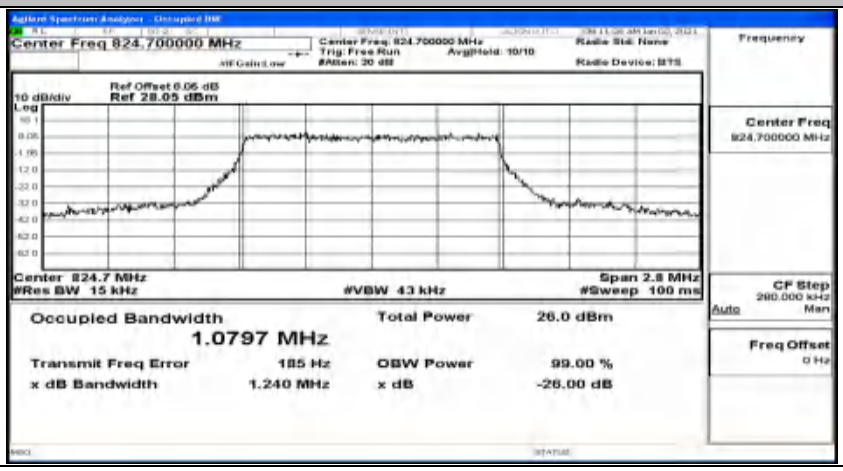
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



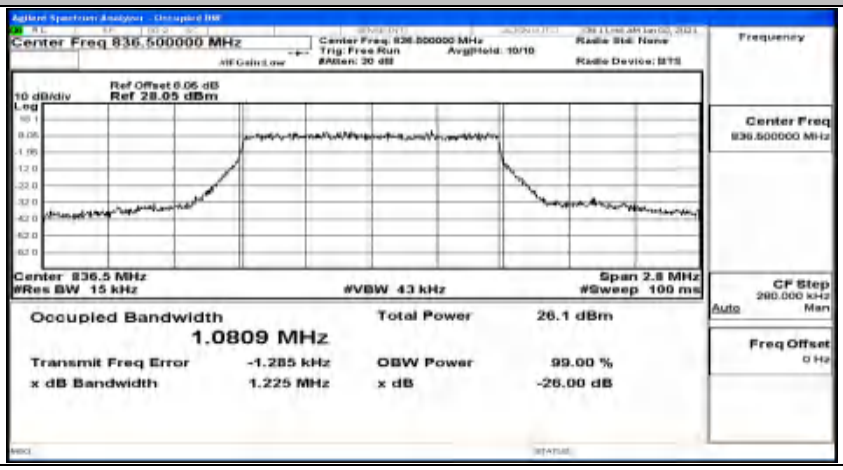
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



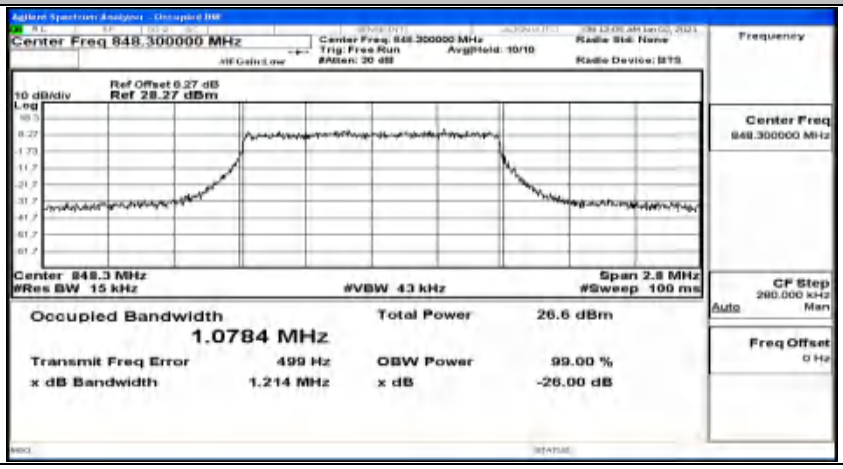
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



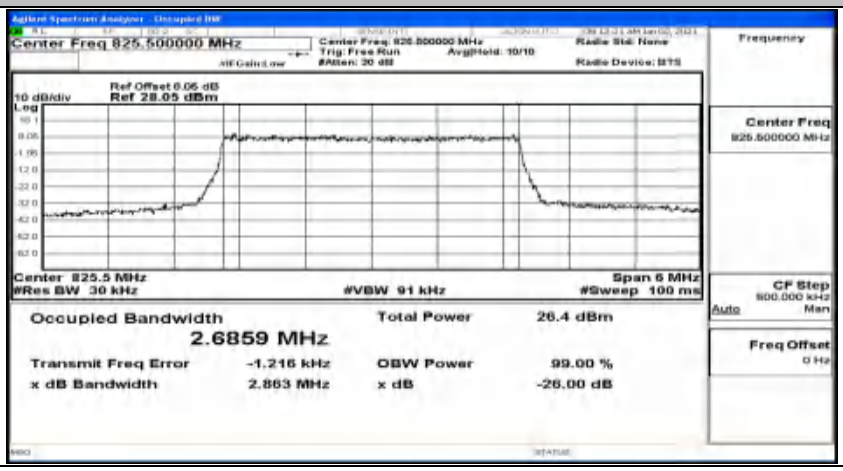
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



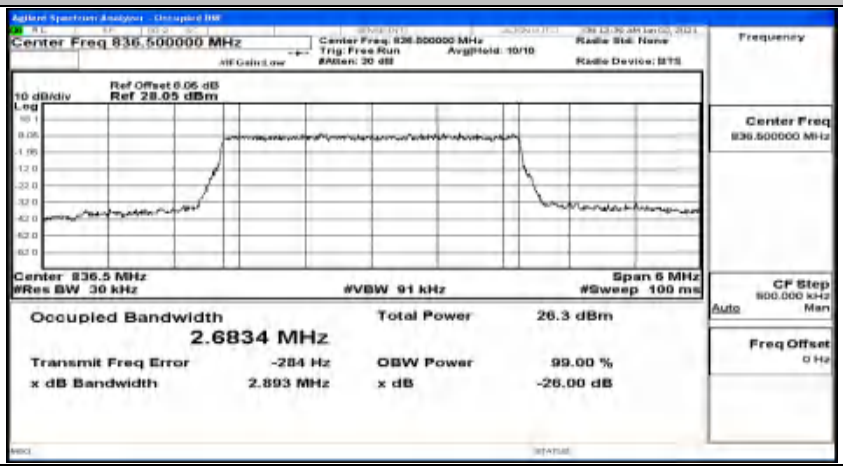
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



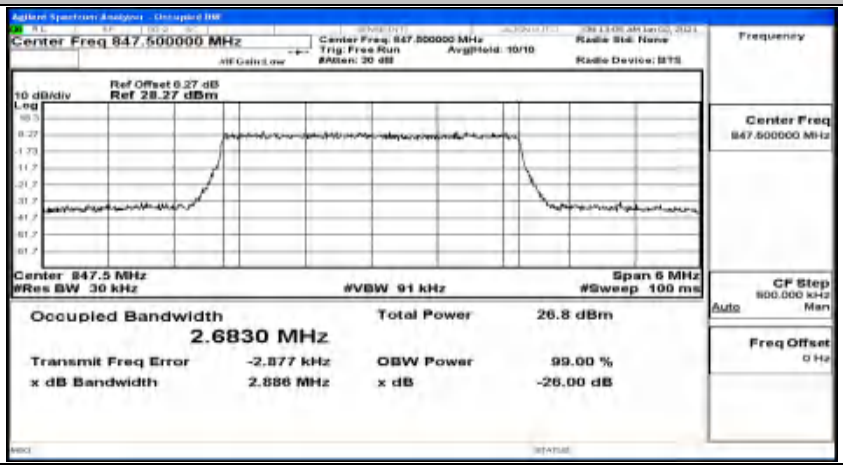
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



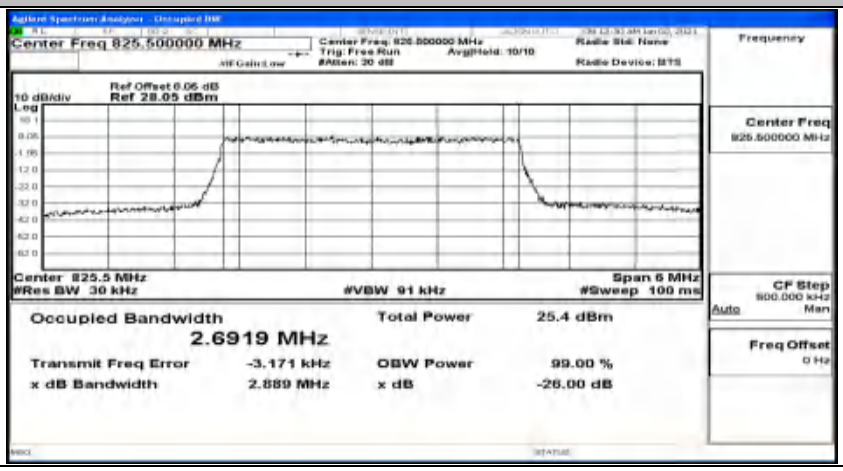
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



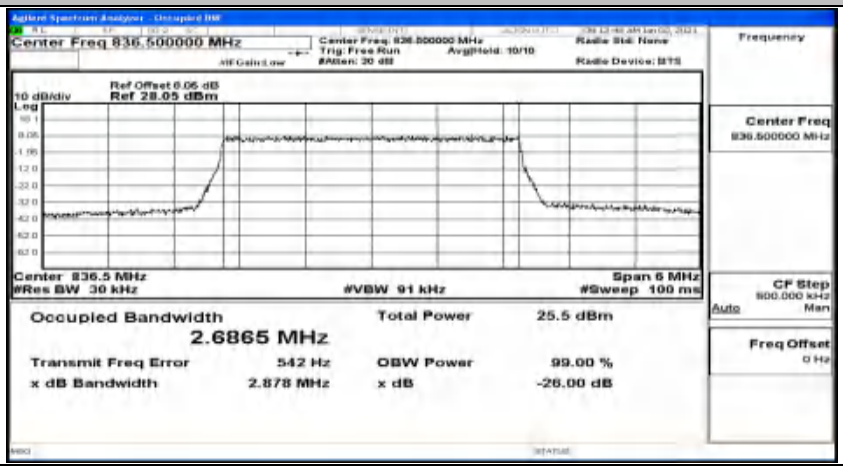
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



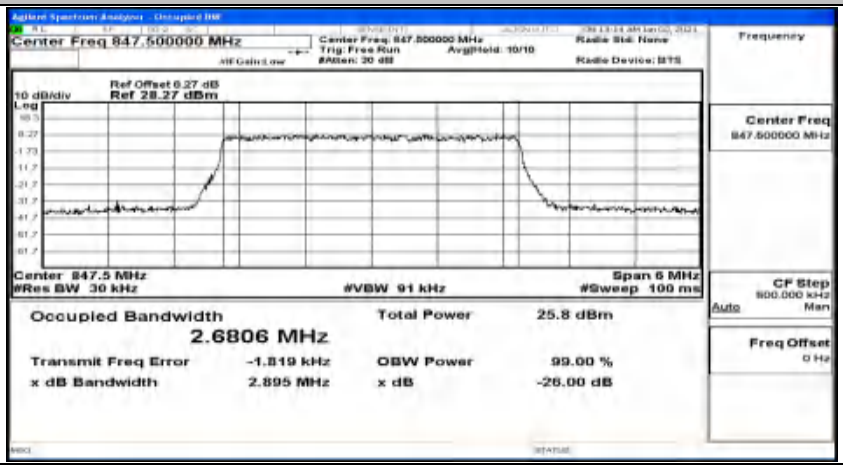
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



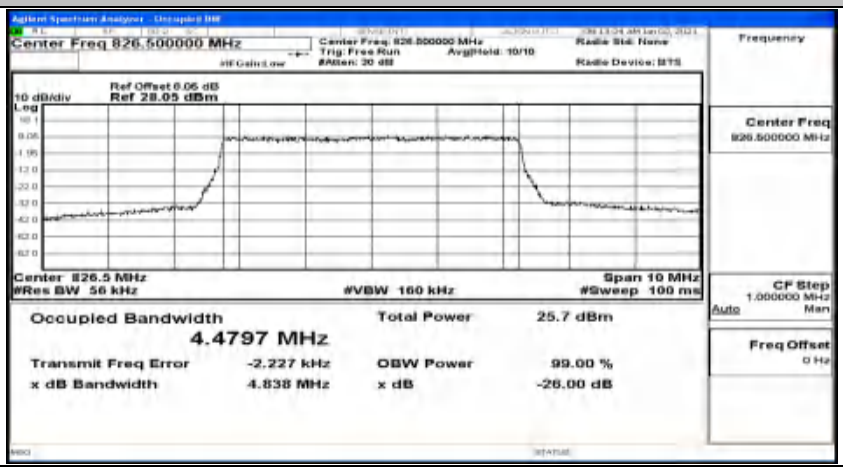
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



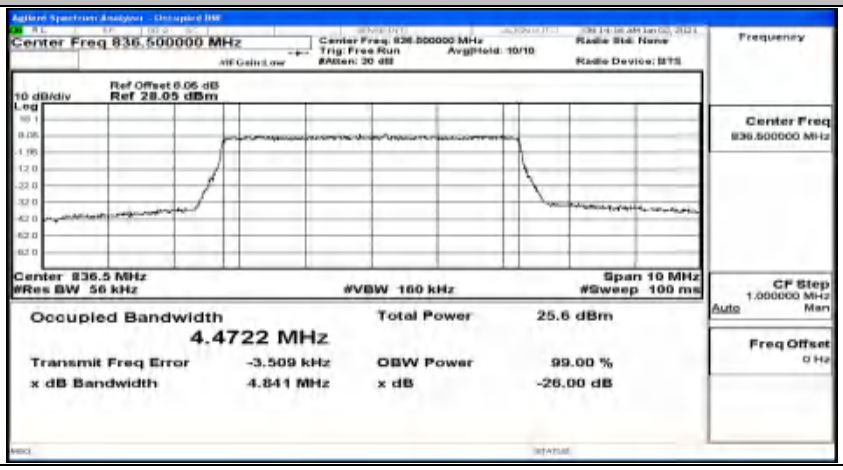
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



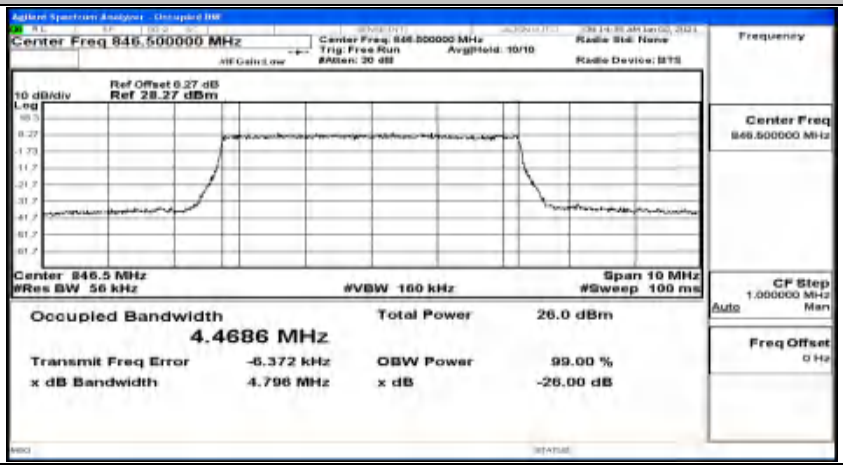
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



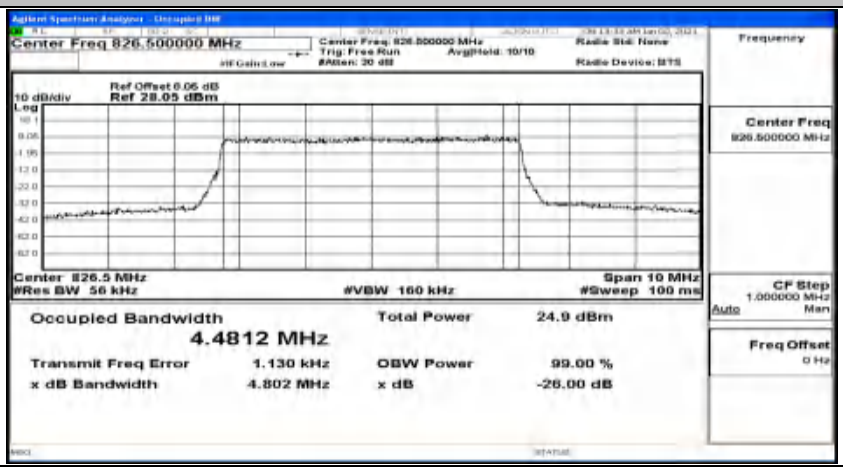
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



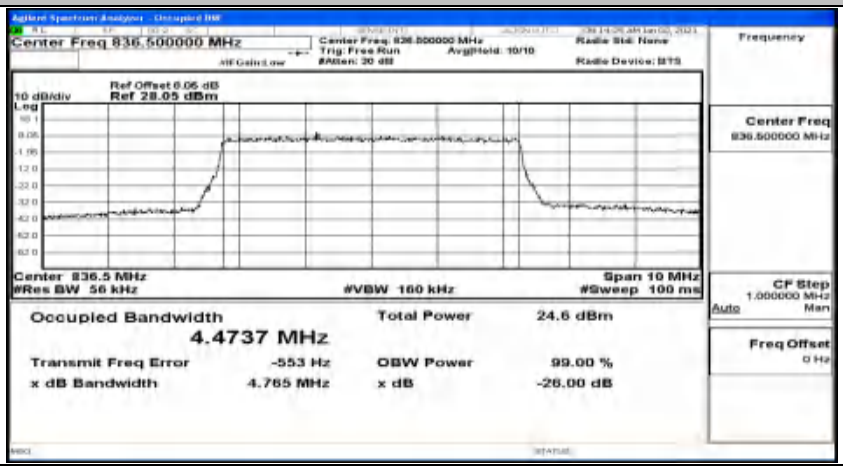
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



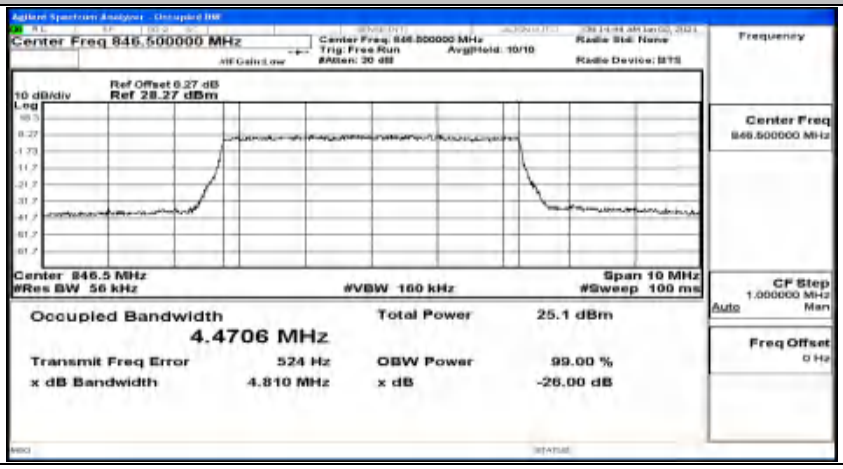
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



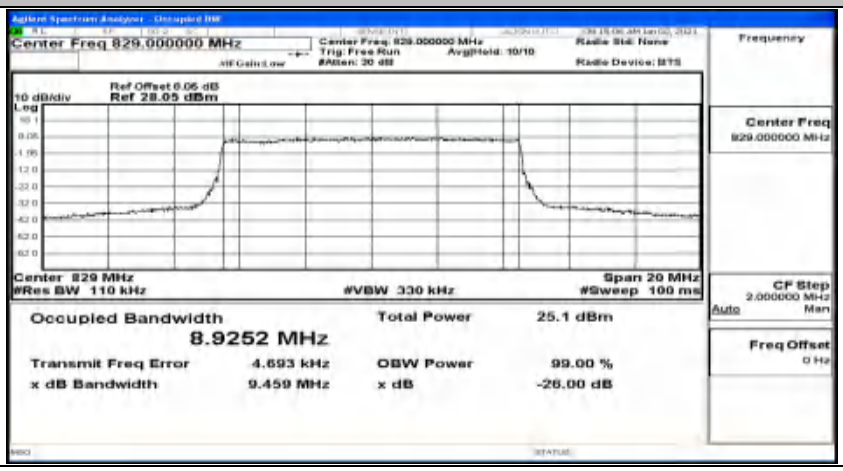
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



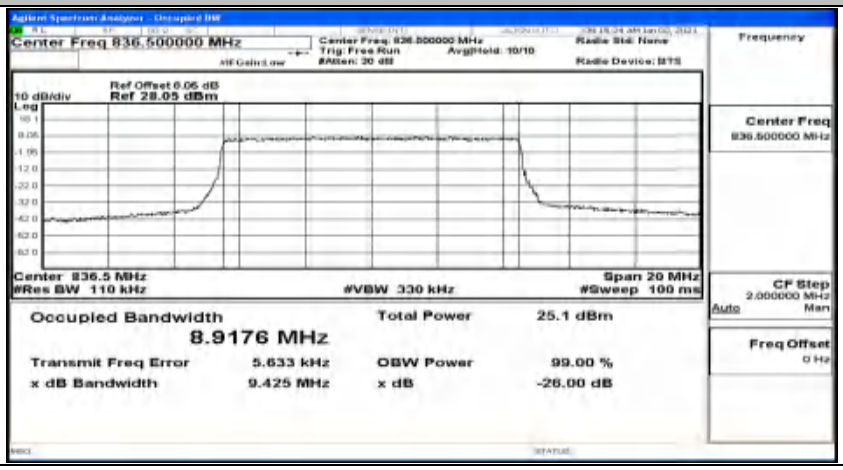
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



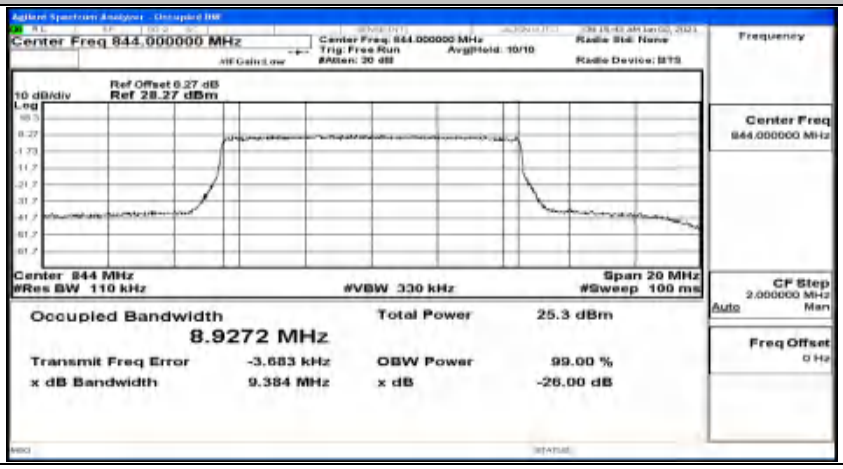
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



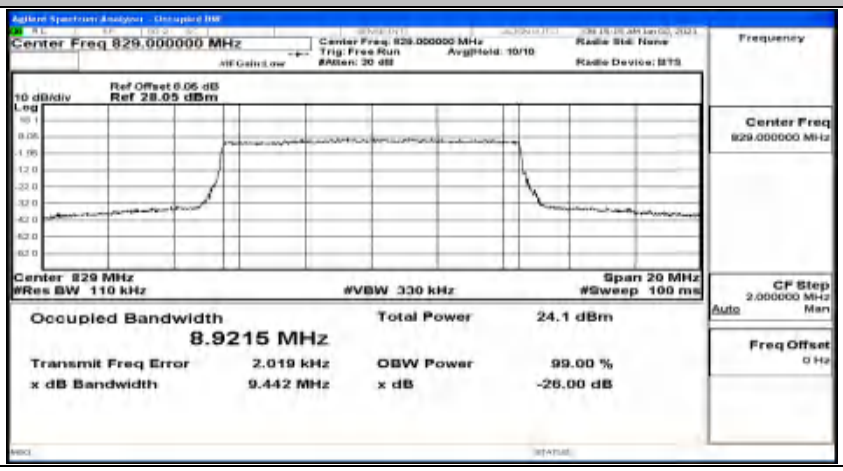
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



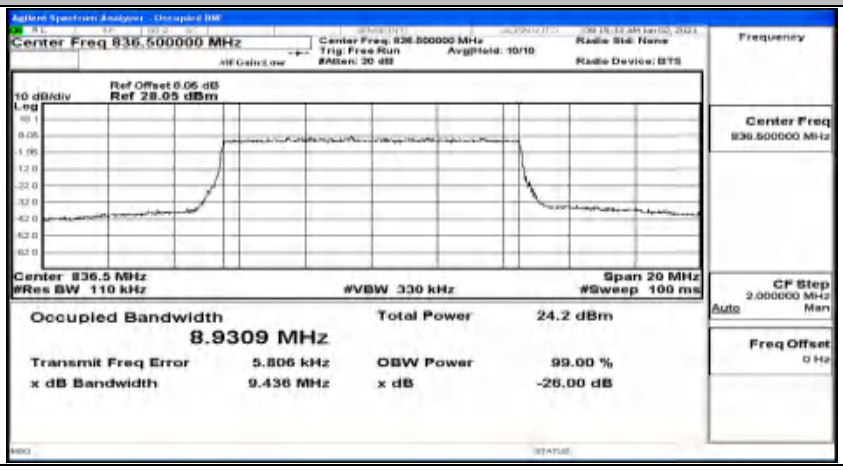
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



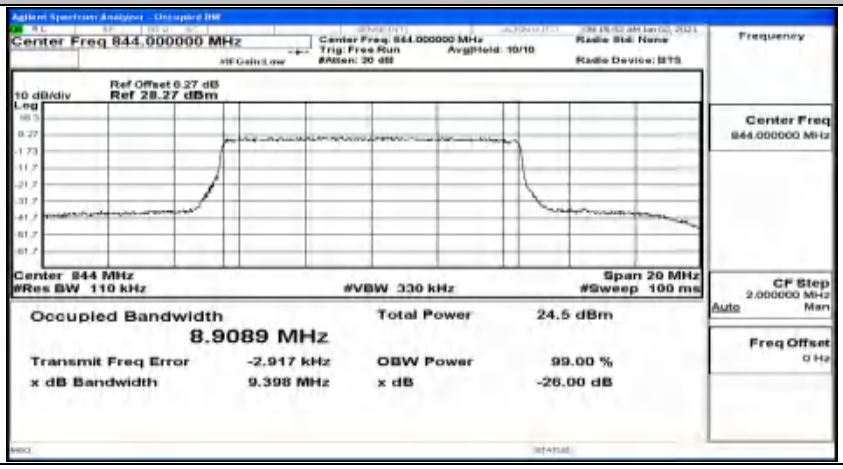
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

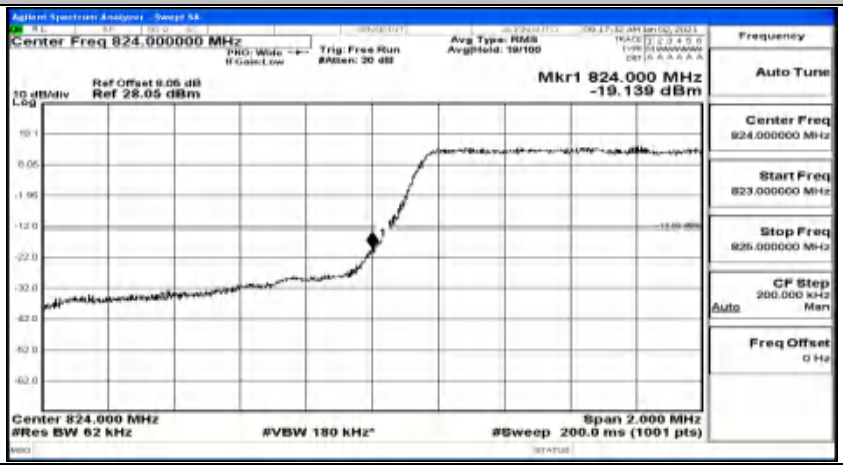


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

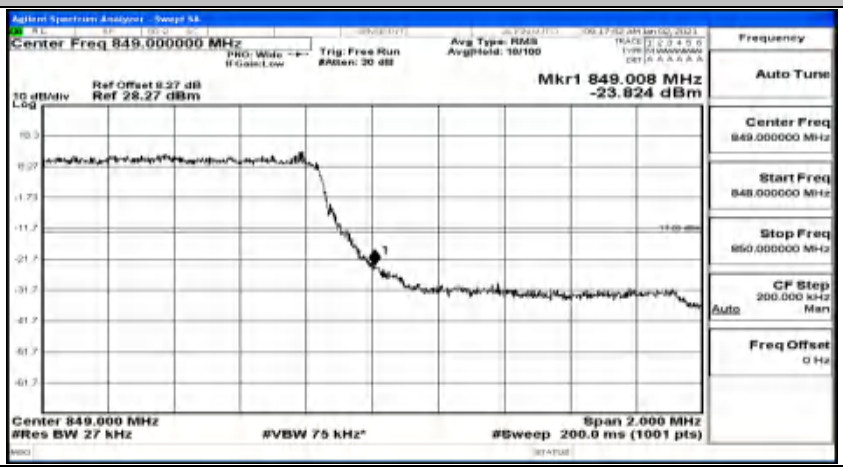


C.4 Band Edge

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

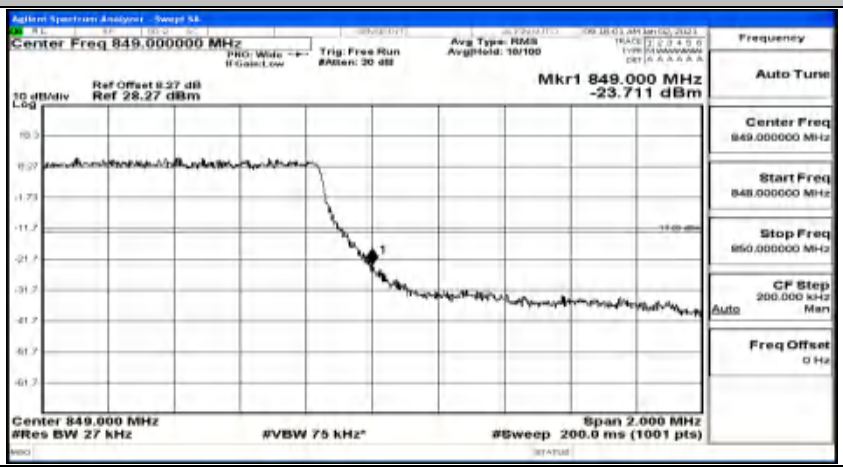


Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK

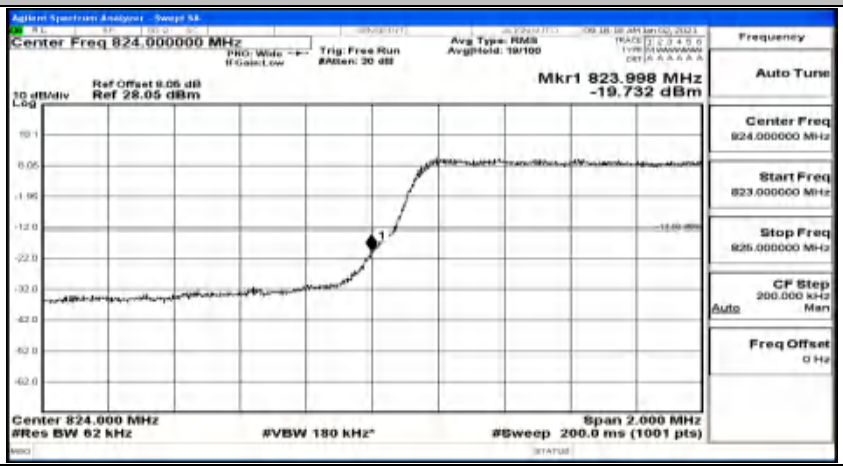


Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM

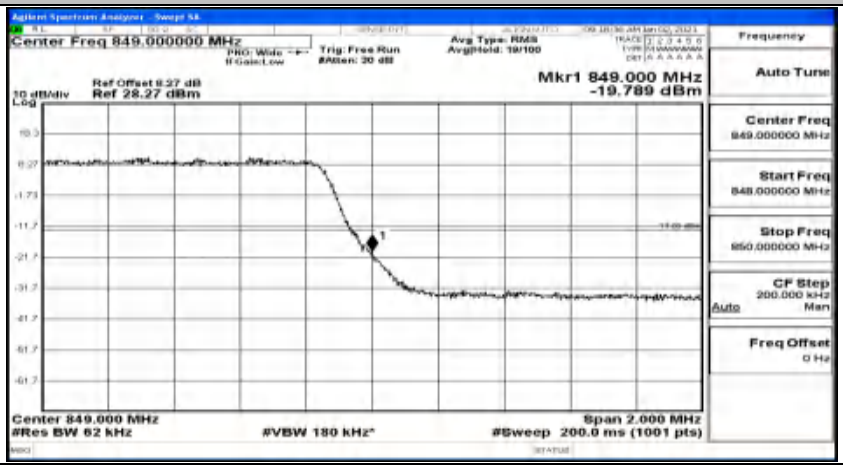
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



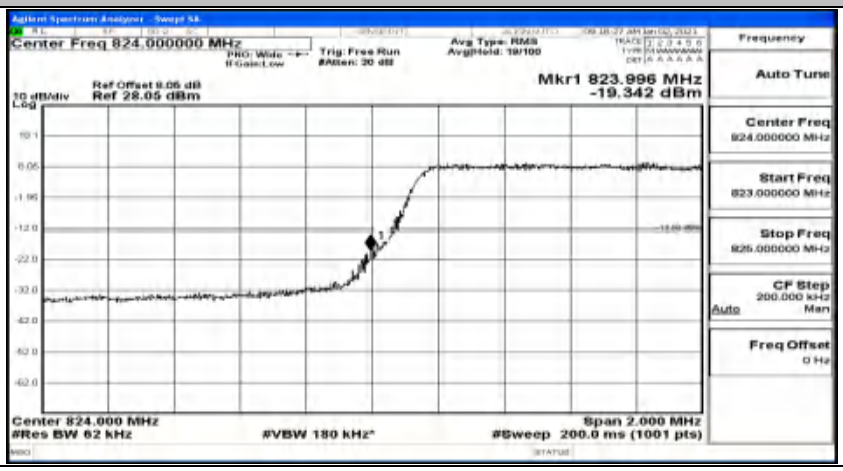
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



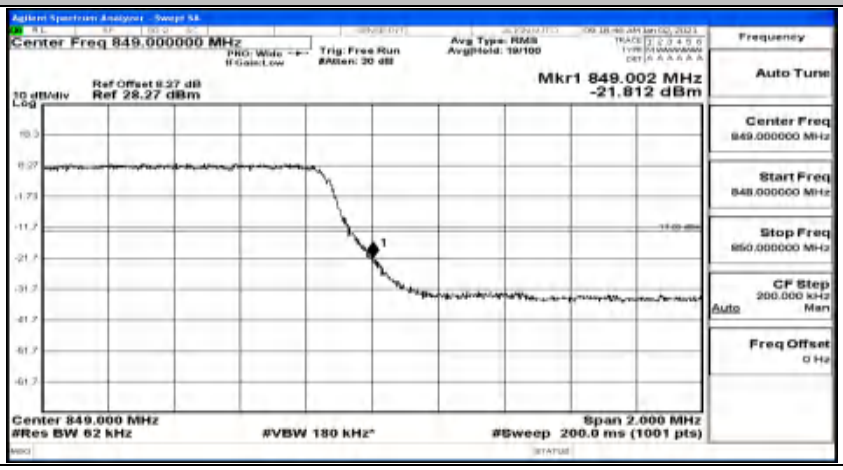
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



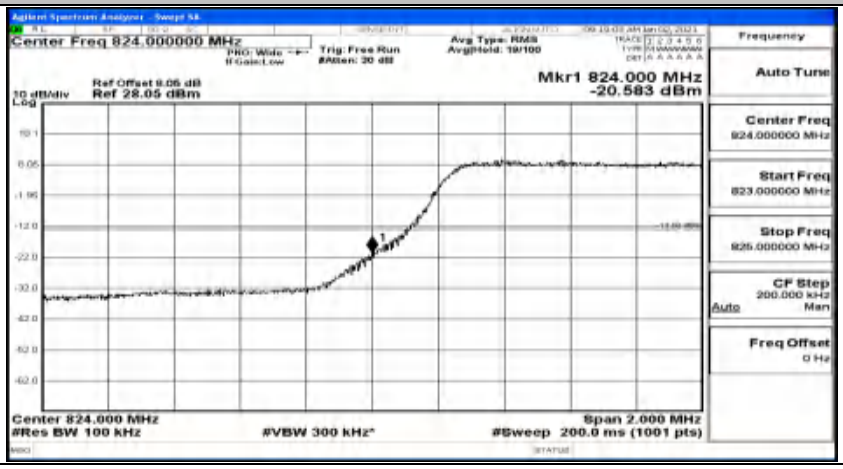
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



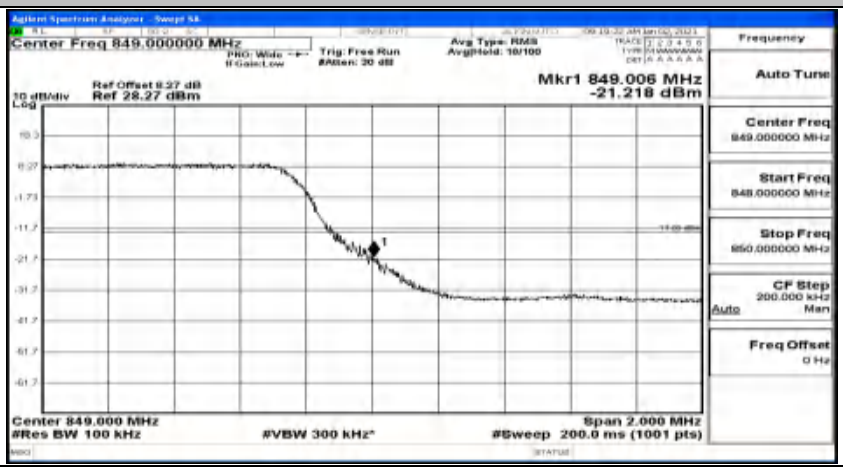
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



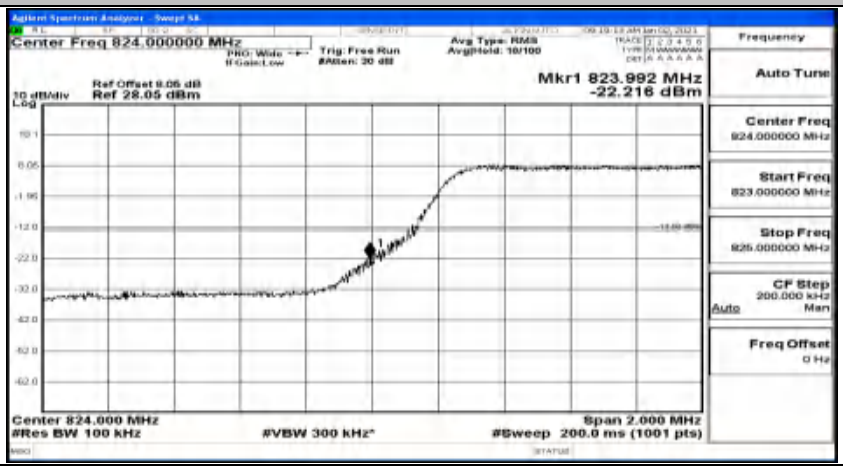
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



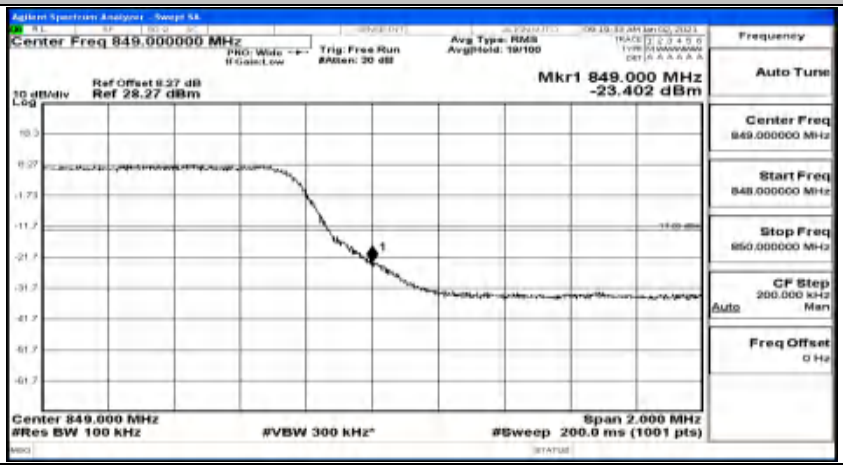
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



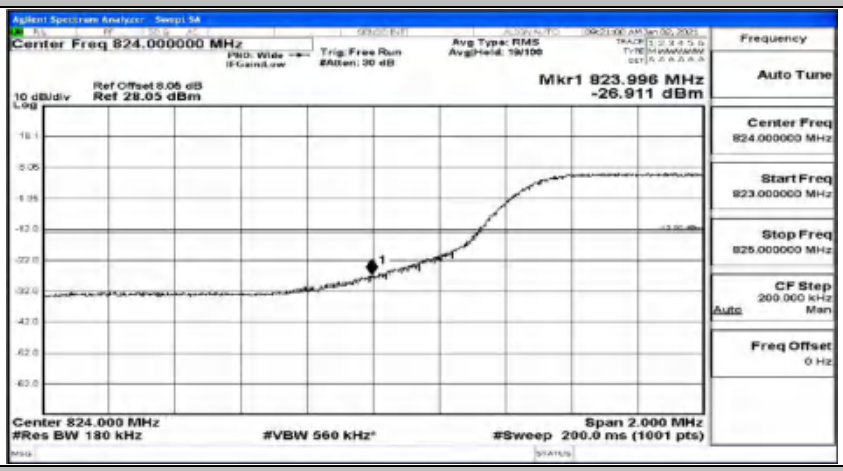
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



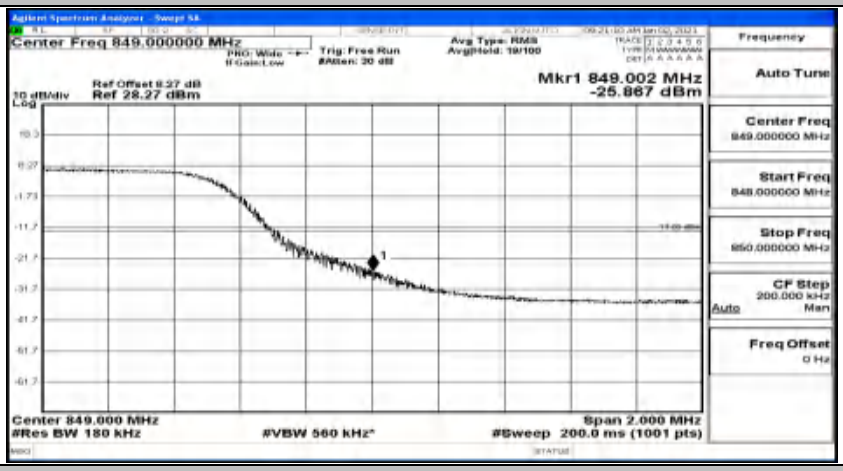
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



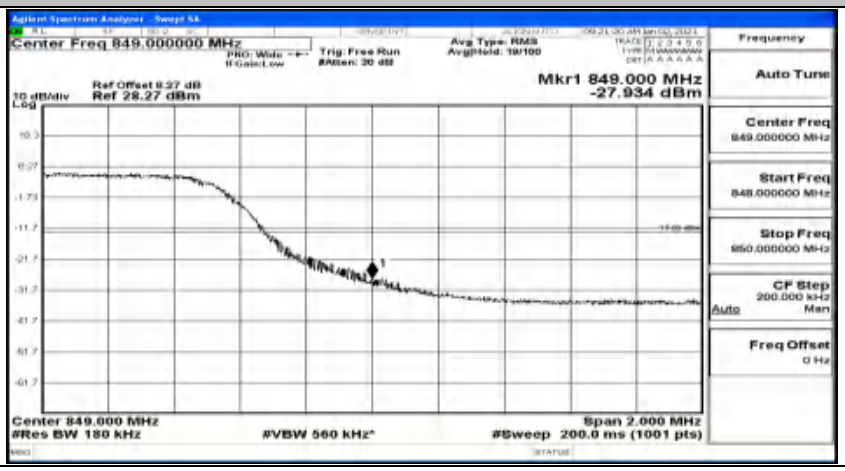
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



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



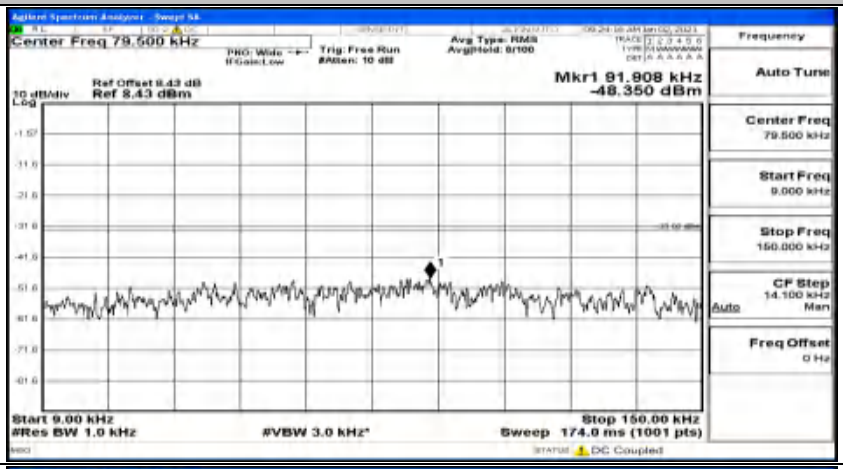
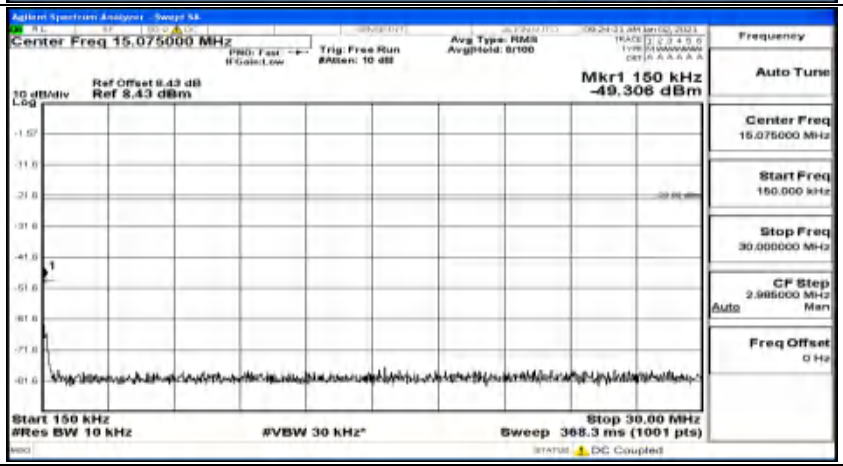
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

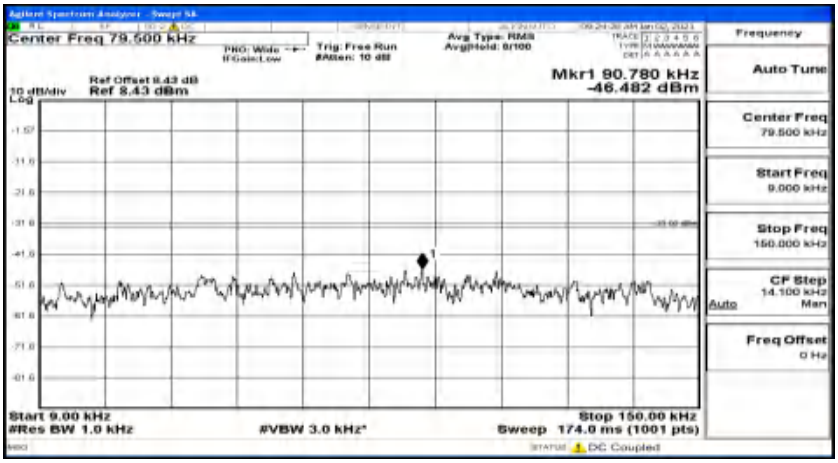
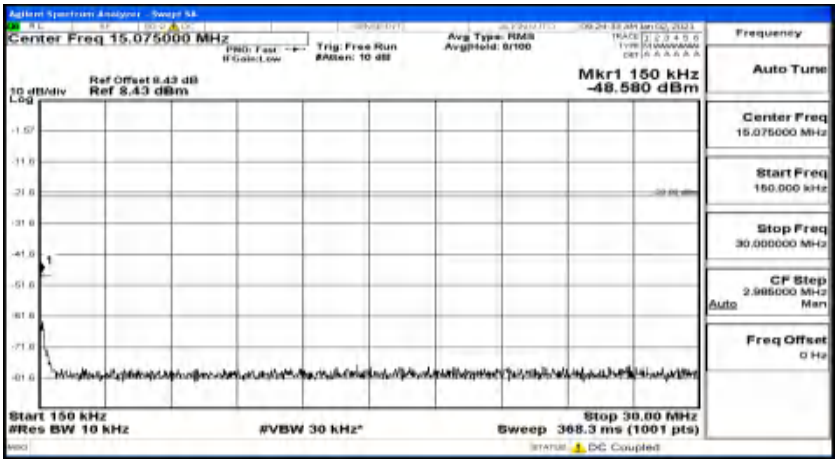
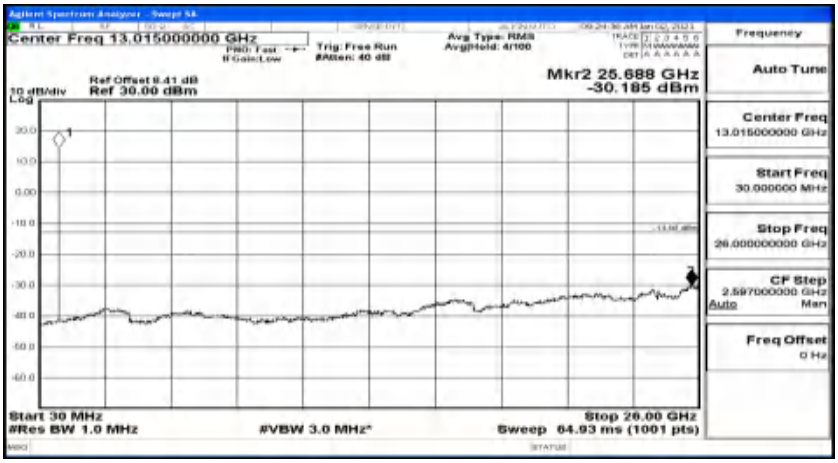
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM


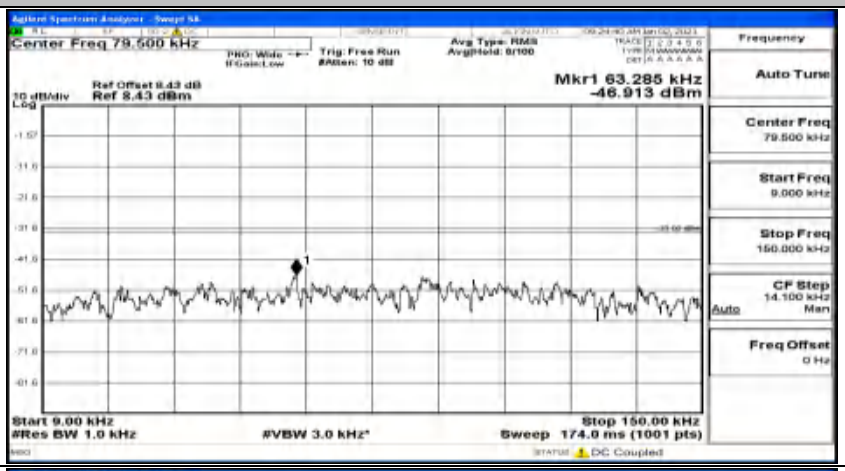
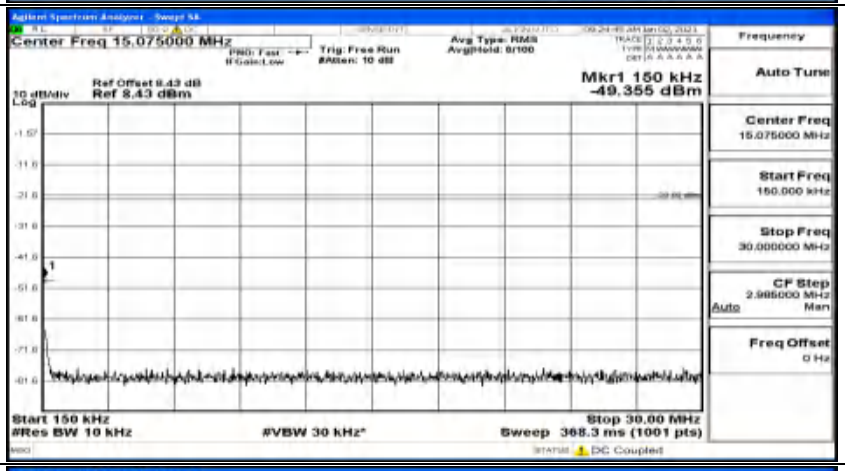
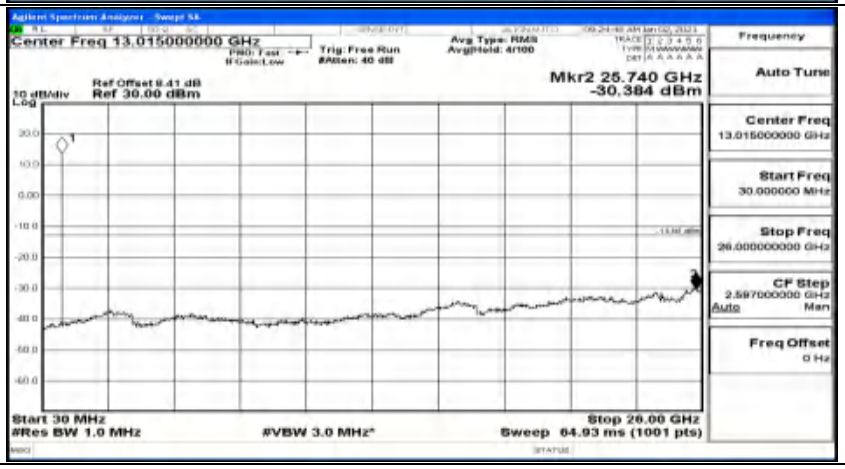
C.5: Conducted Spurious Emission

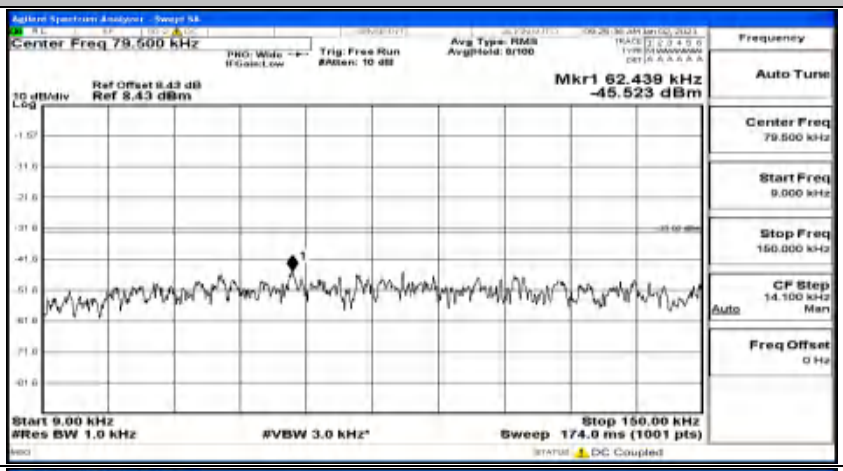
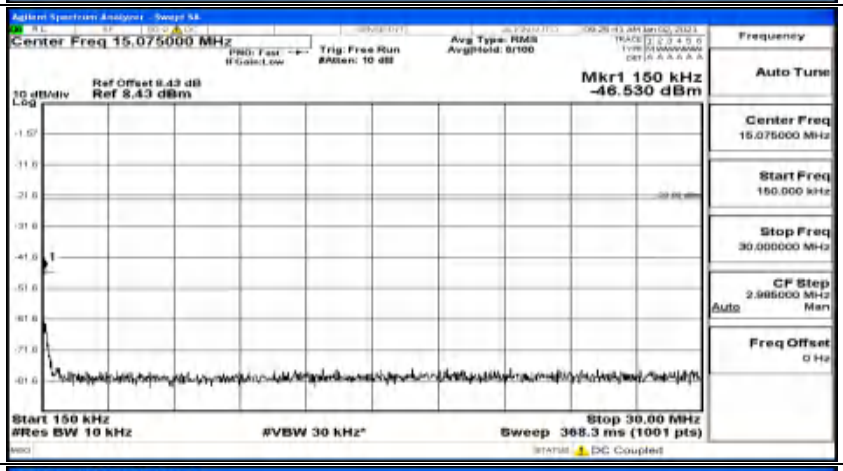
Test Graphs

Channel Bandwidth: 1.4 MHz

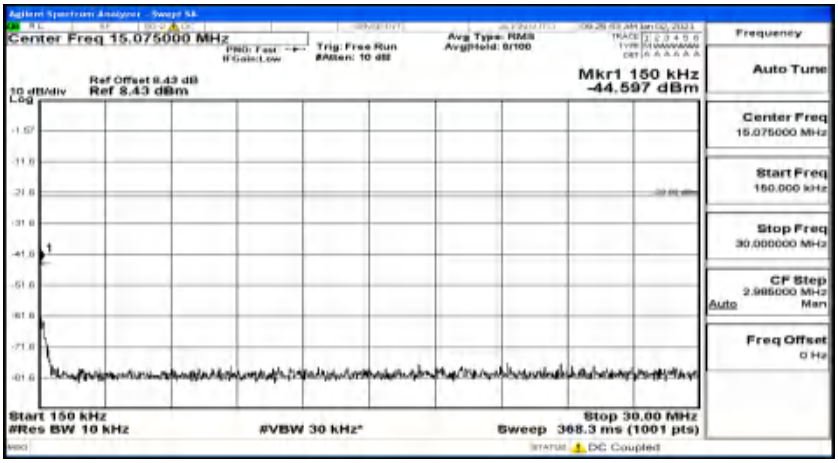
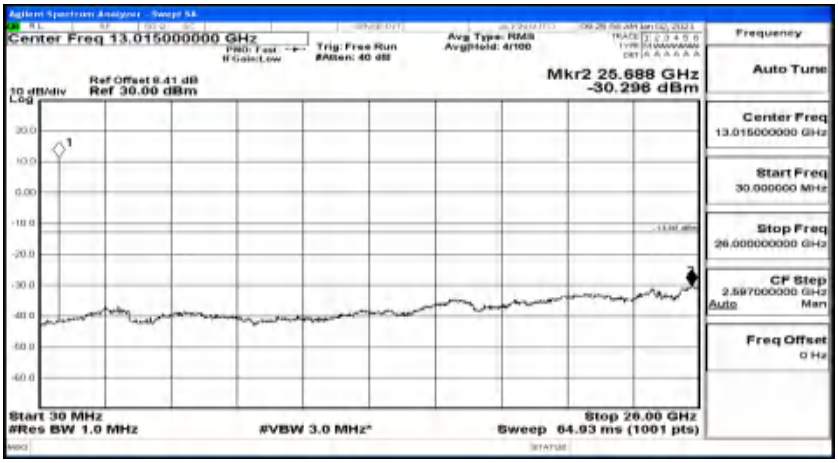
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



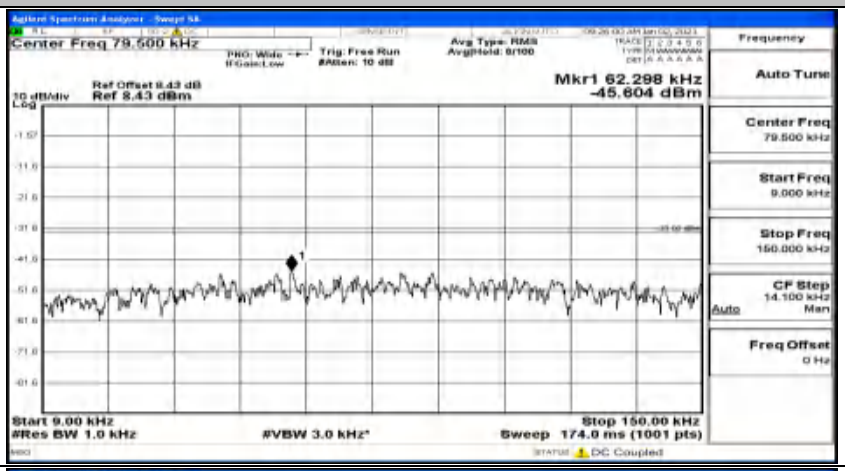
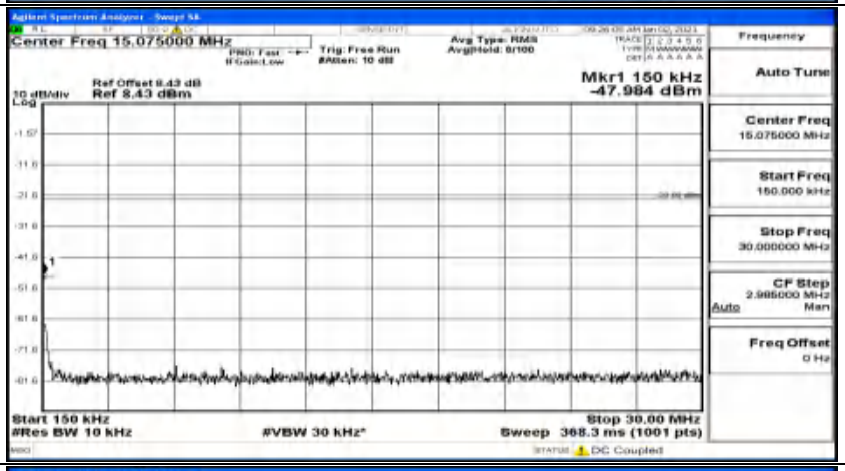
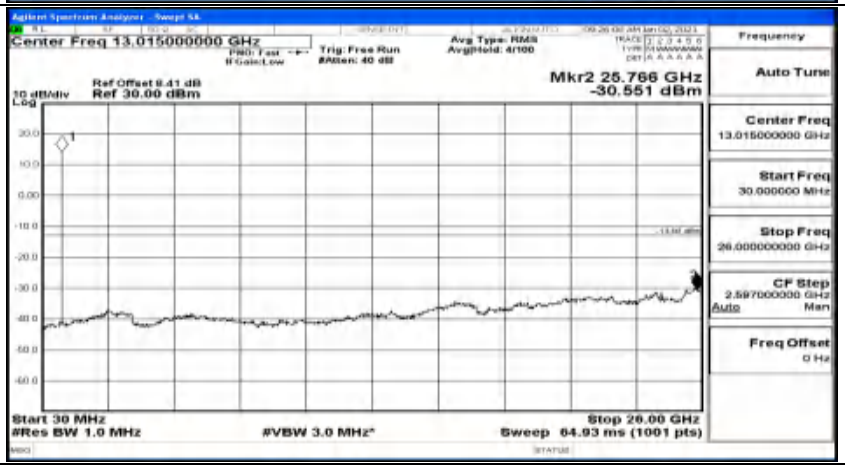

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3




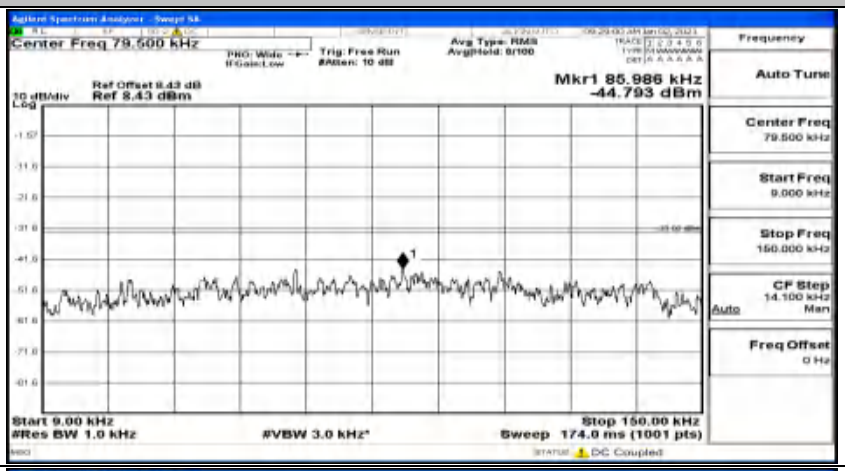
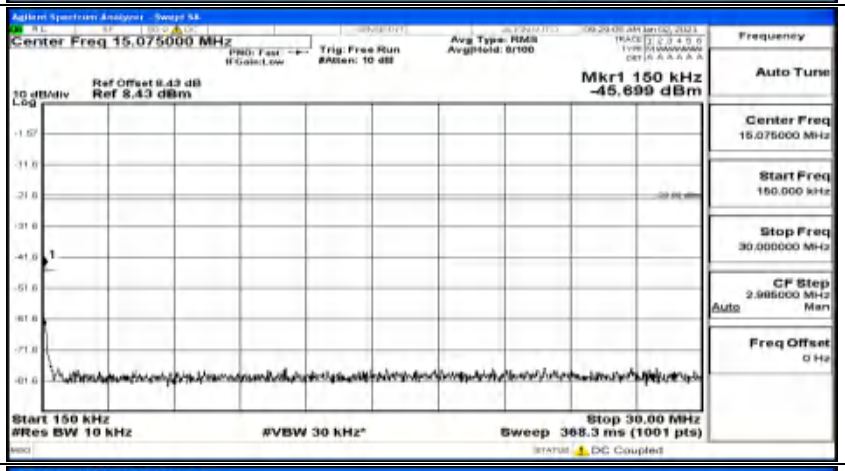
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5




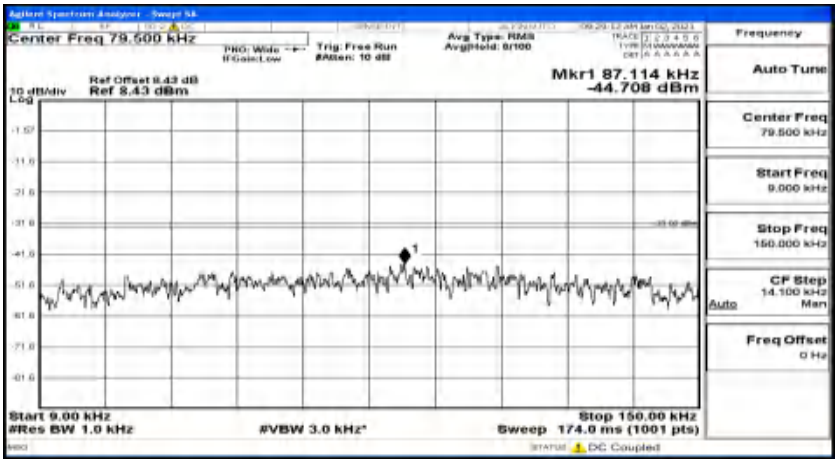
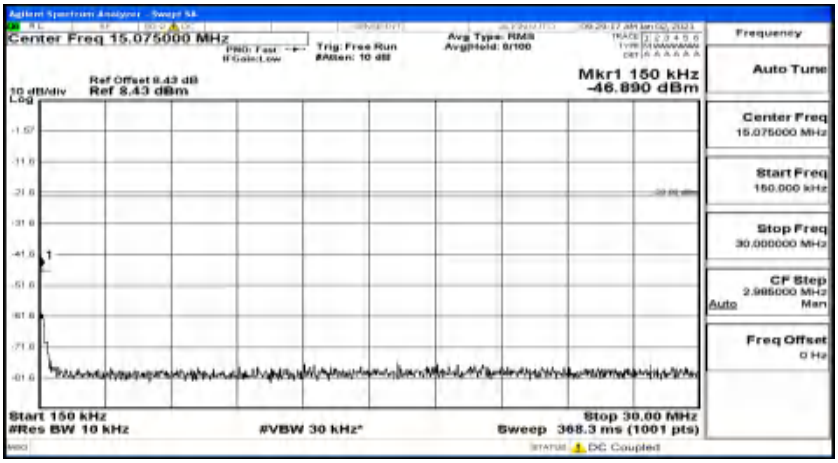
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



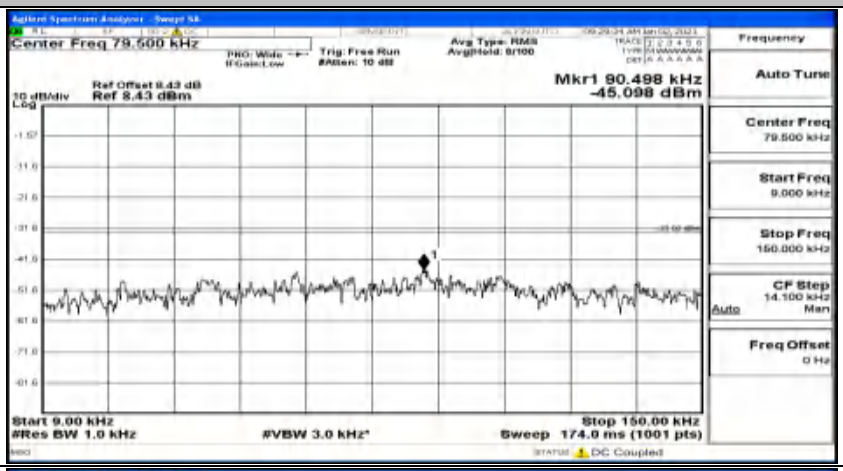
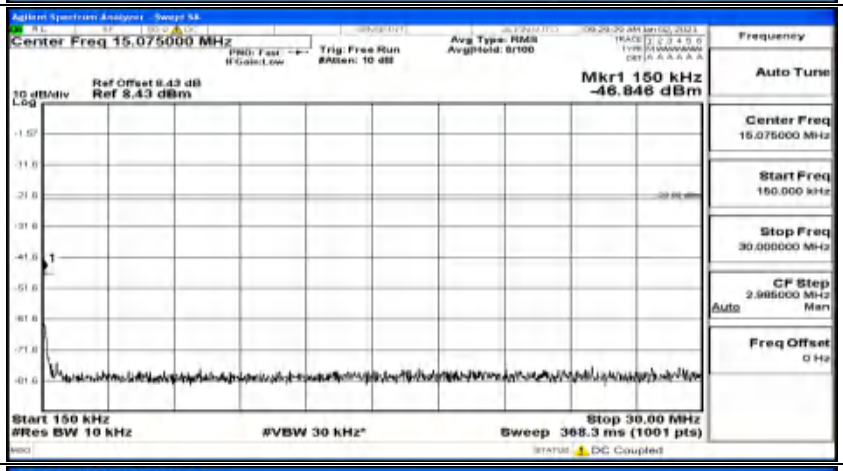

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

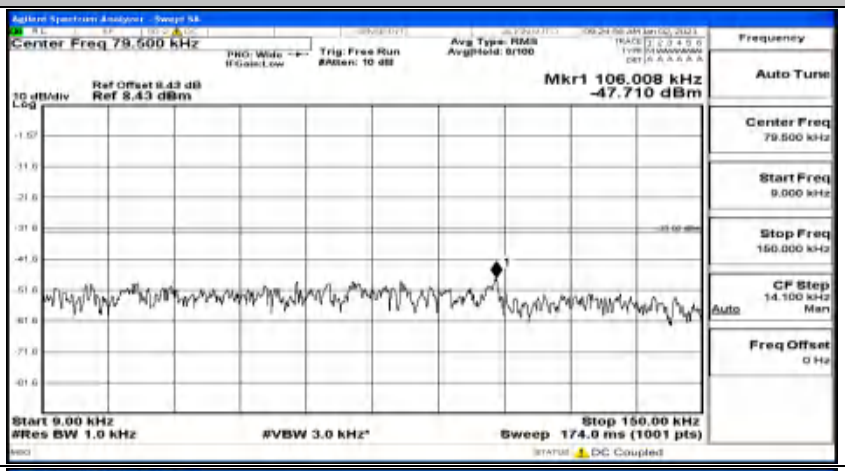
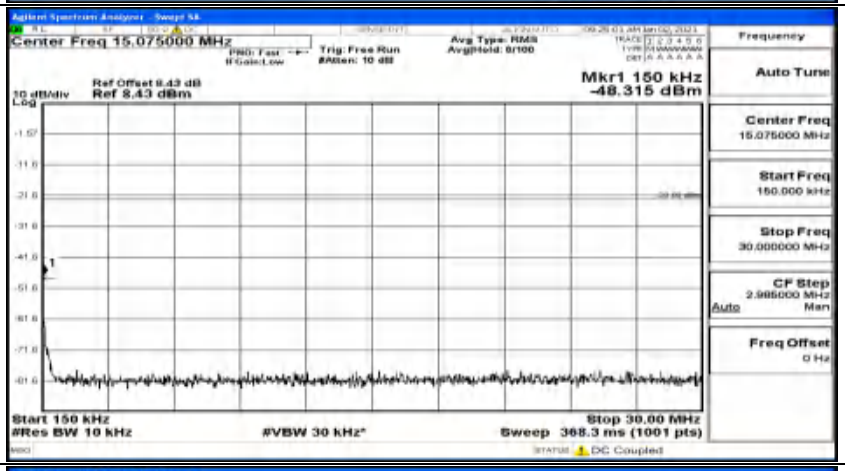



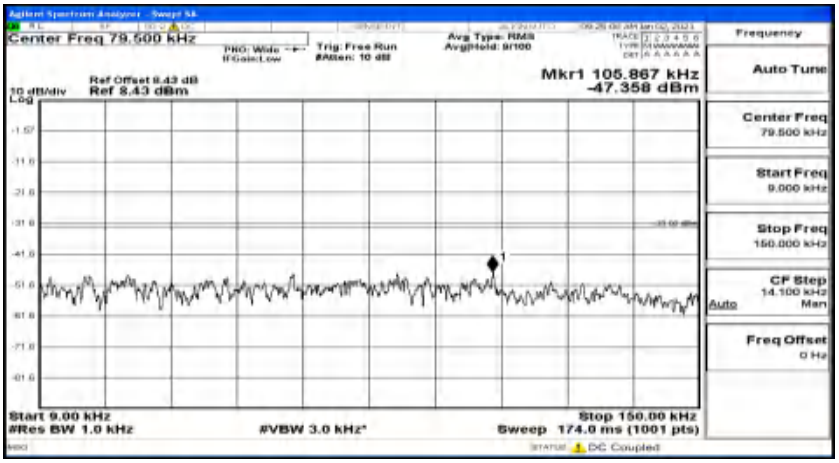
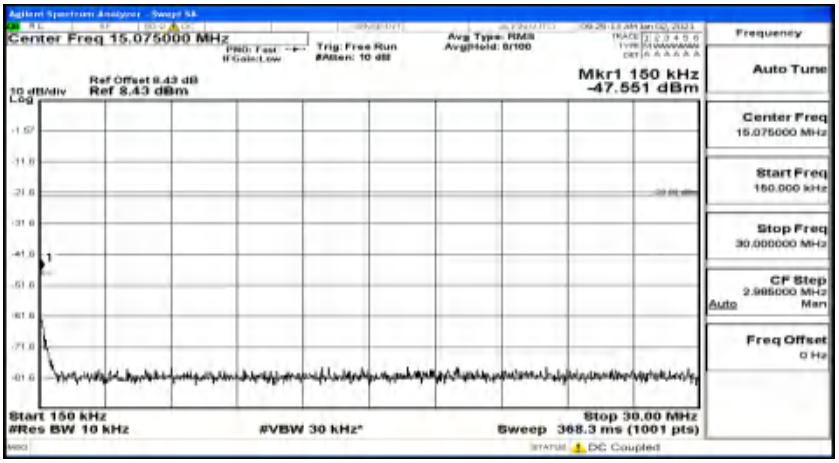
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5




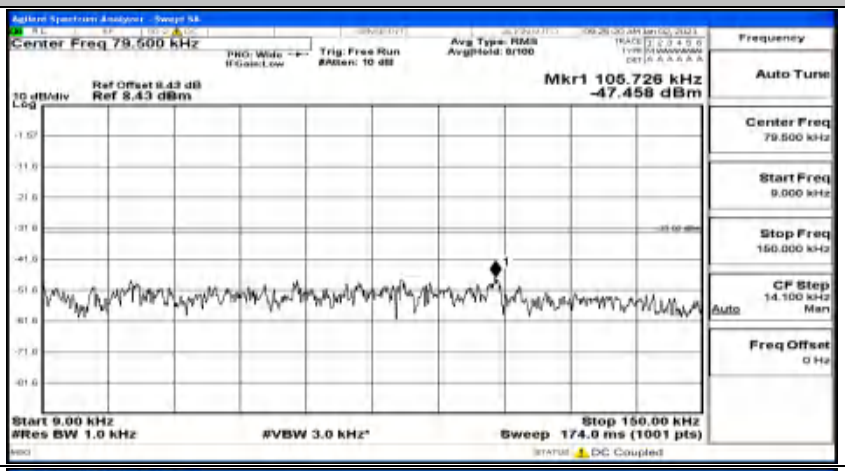
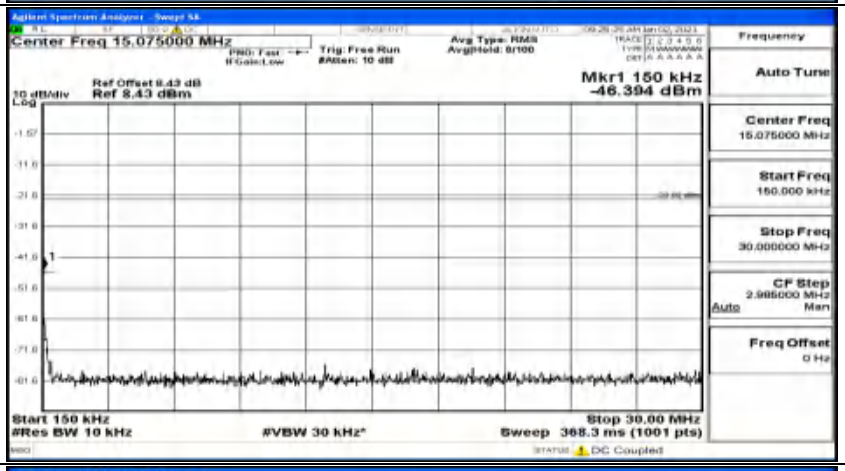
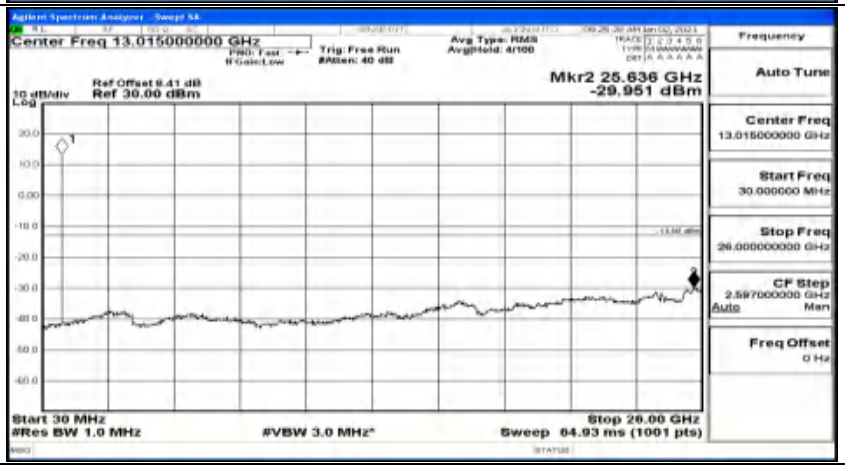
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



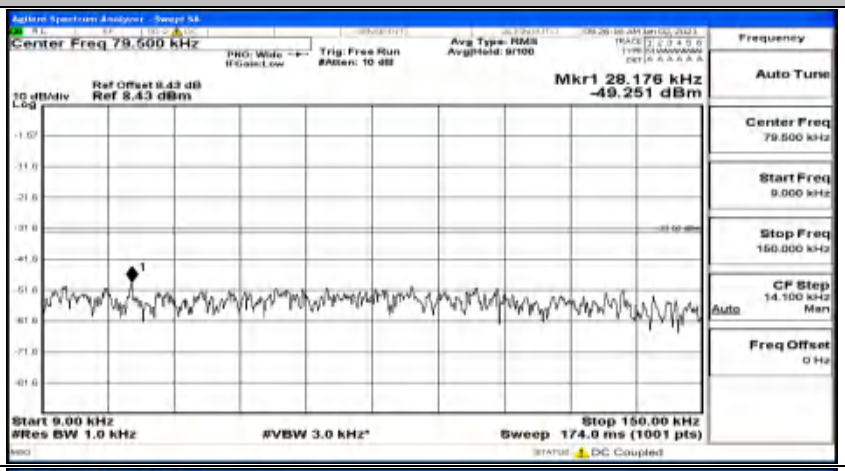
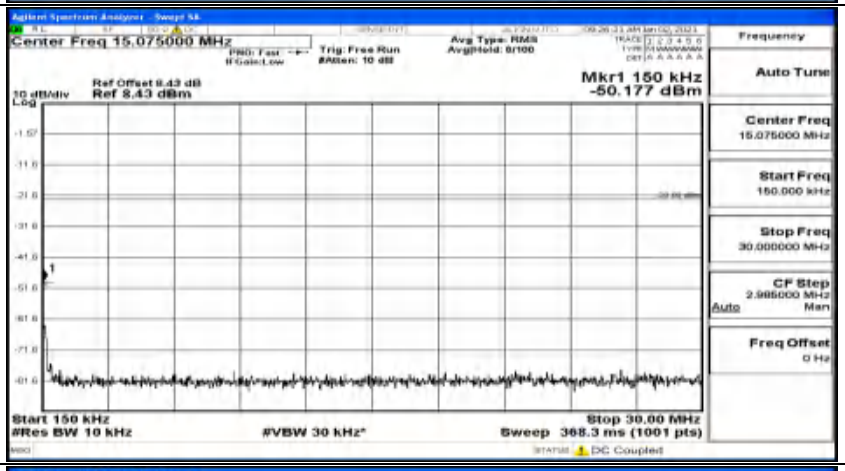
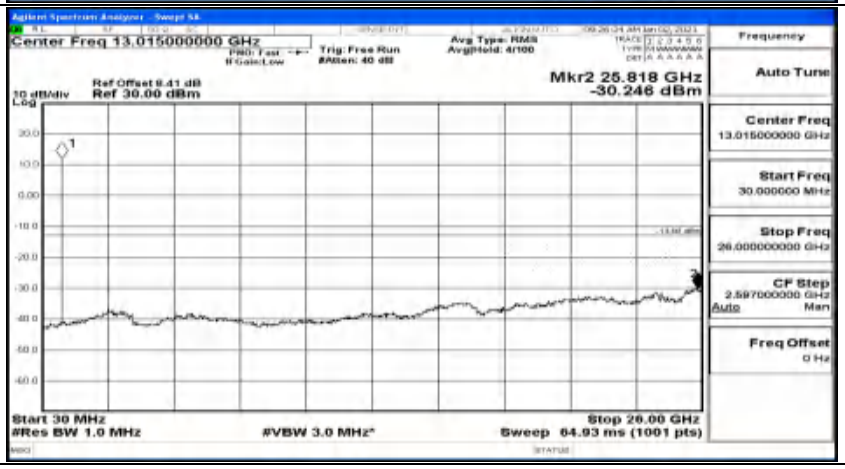

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



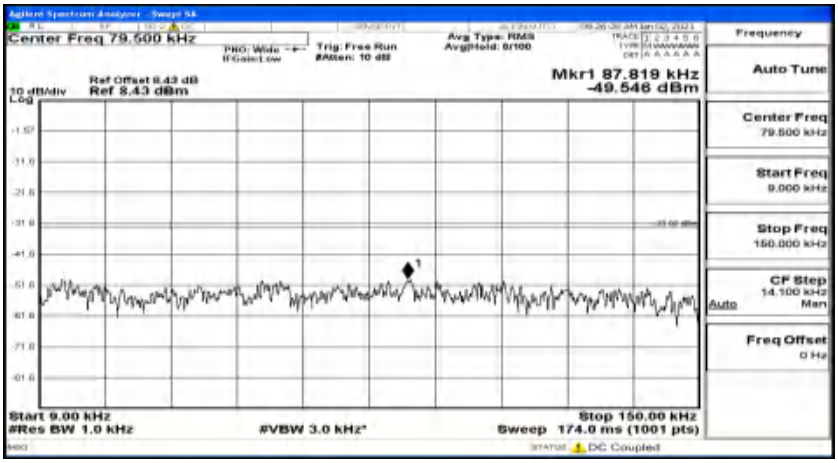
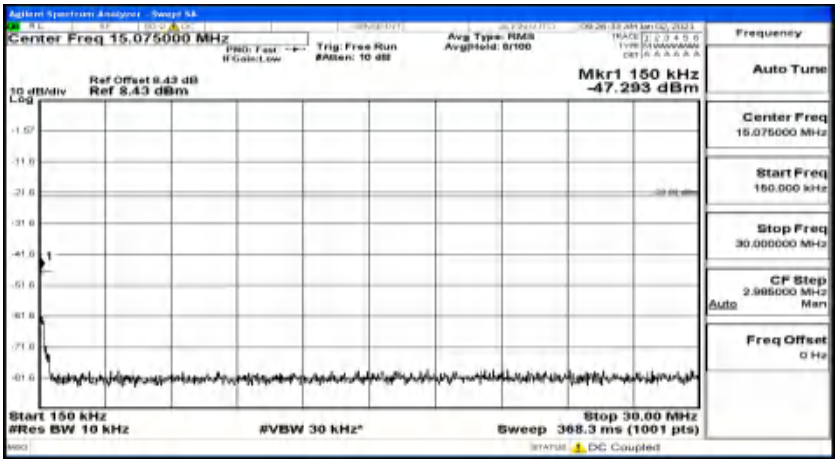
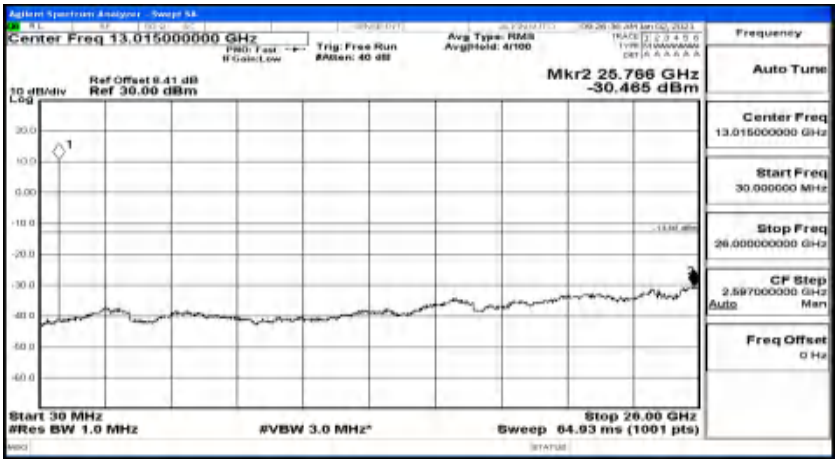

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



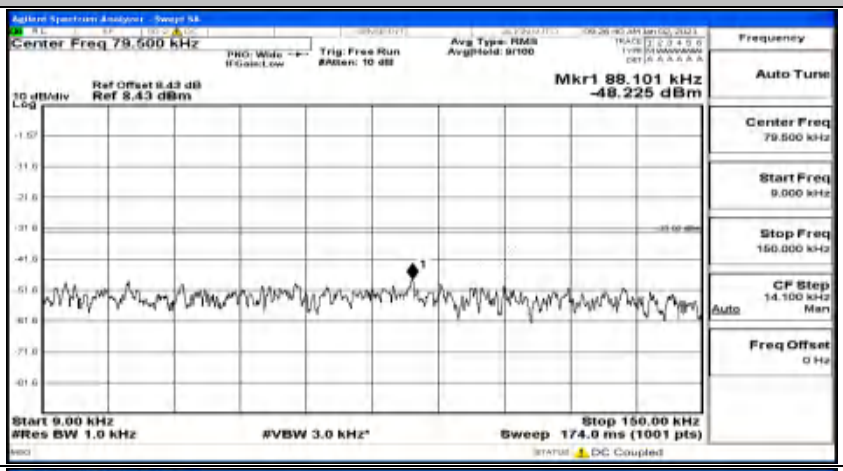
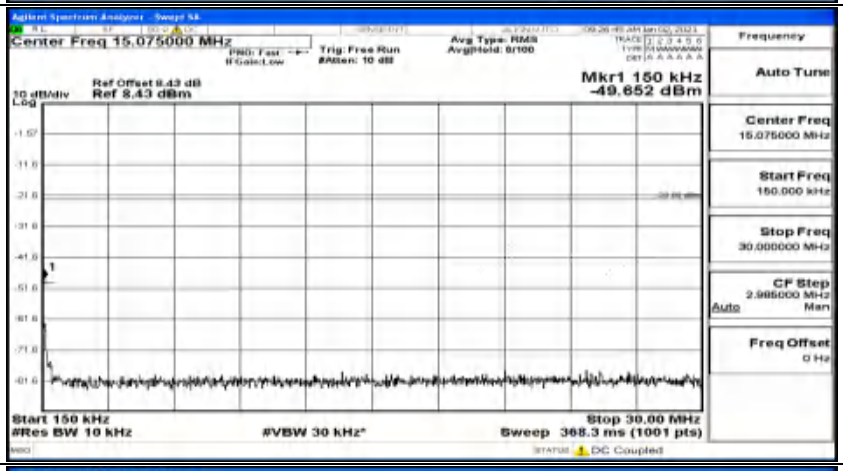

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



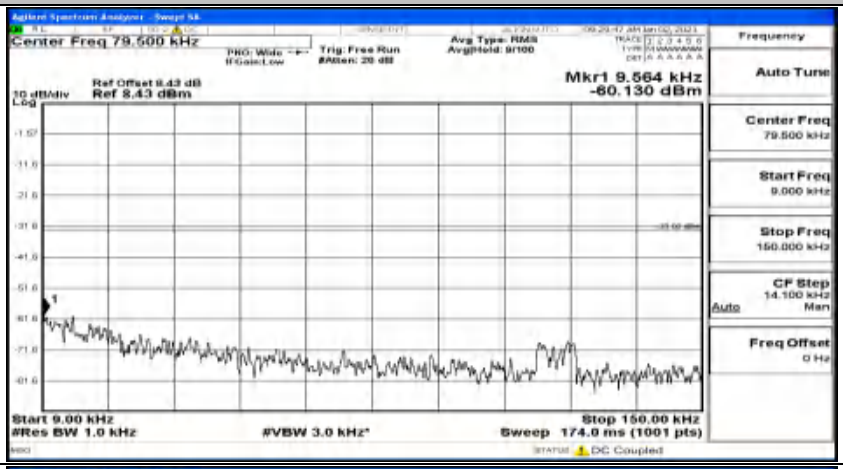
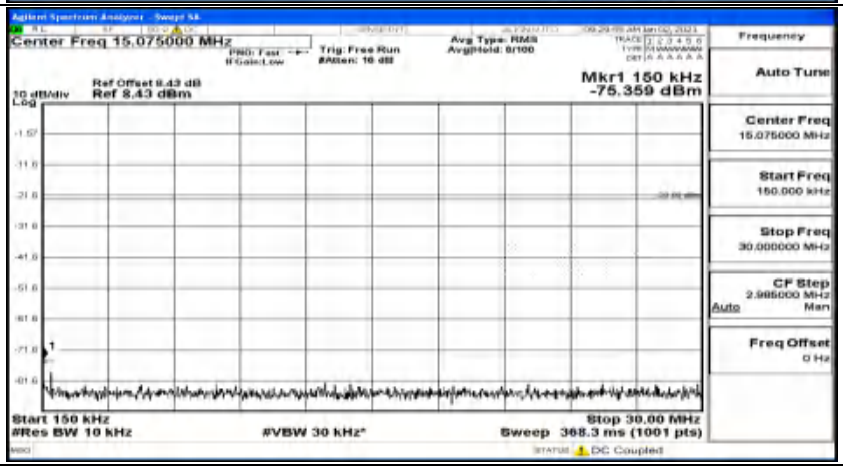

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



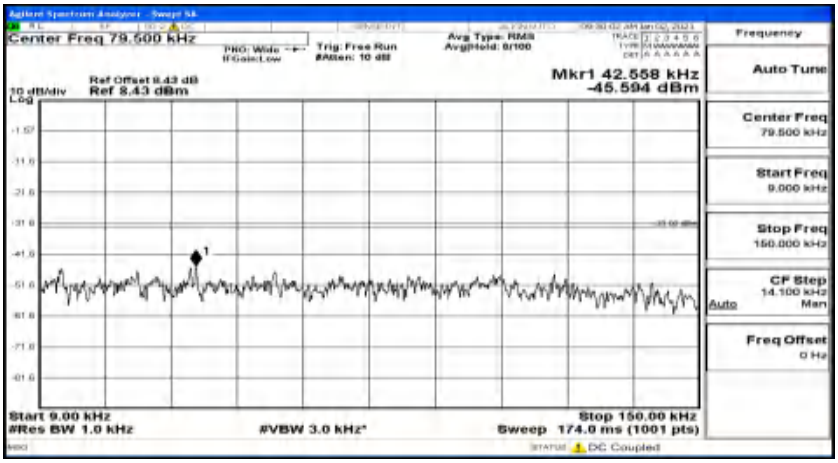
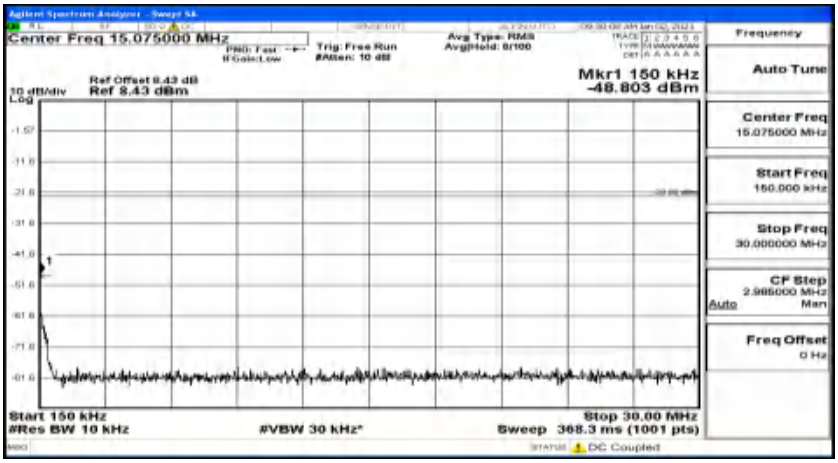
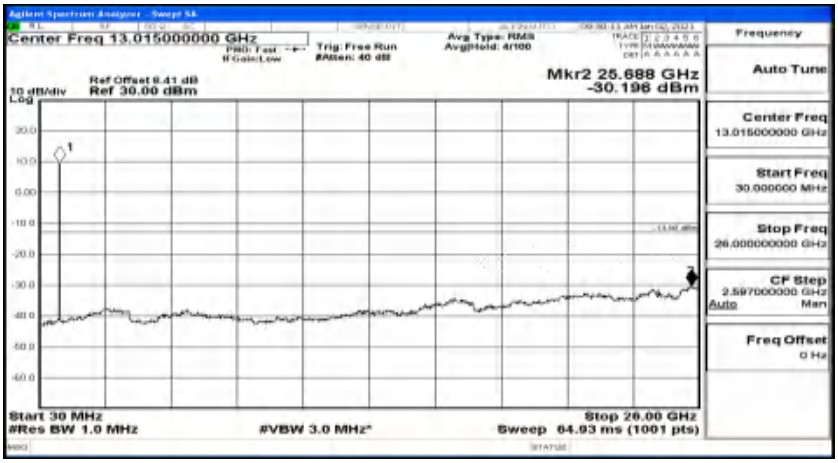

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5




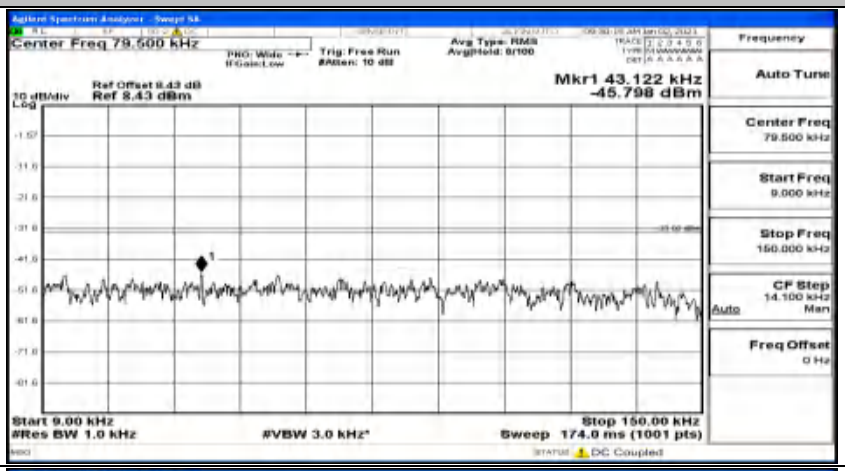
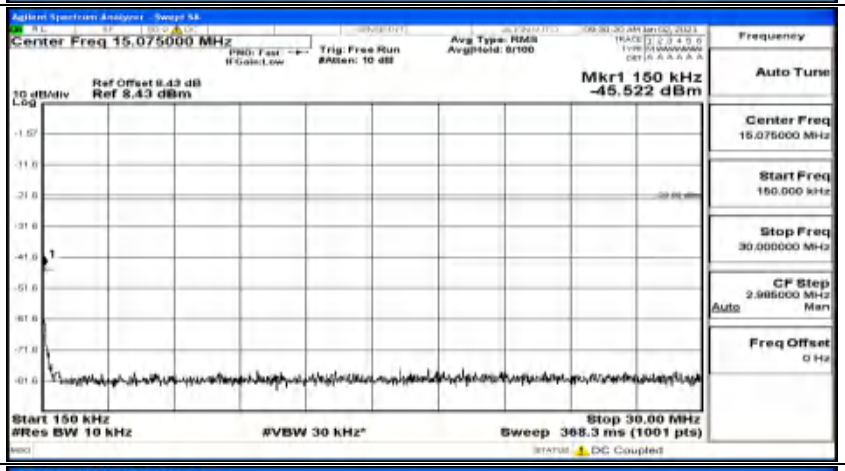
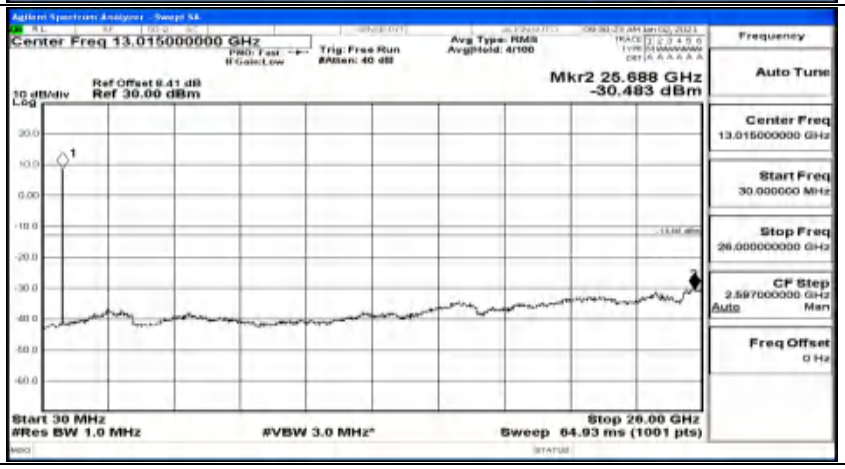
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0




(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3




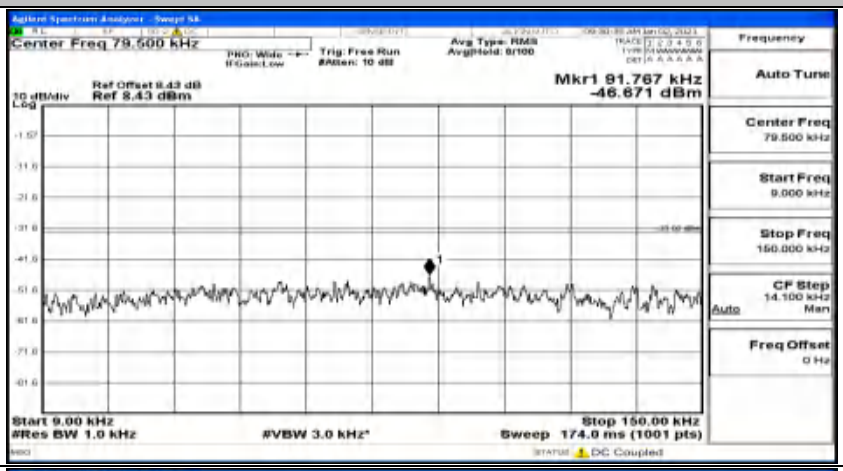
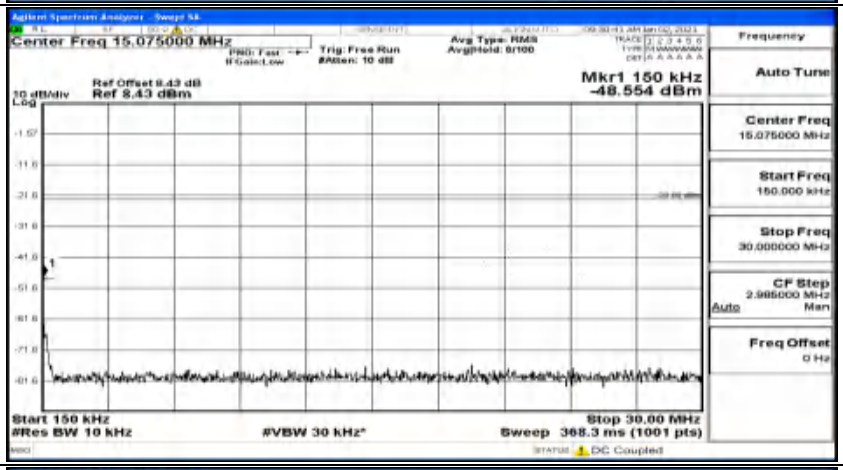
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



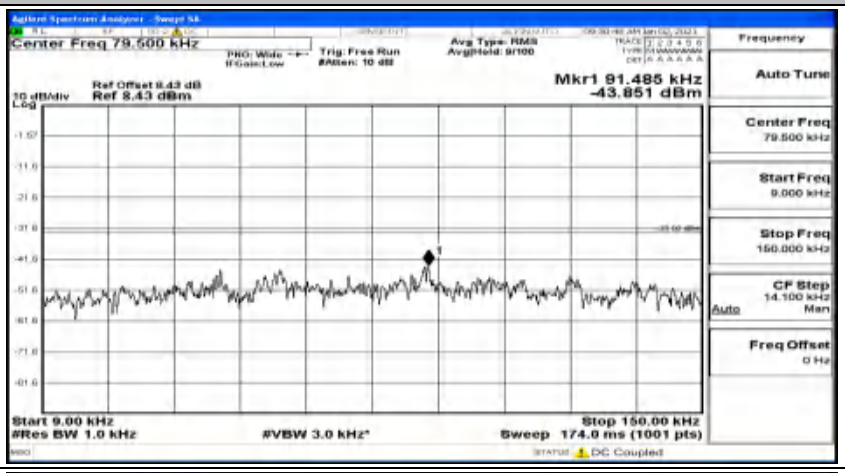
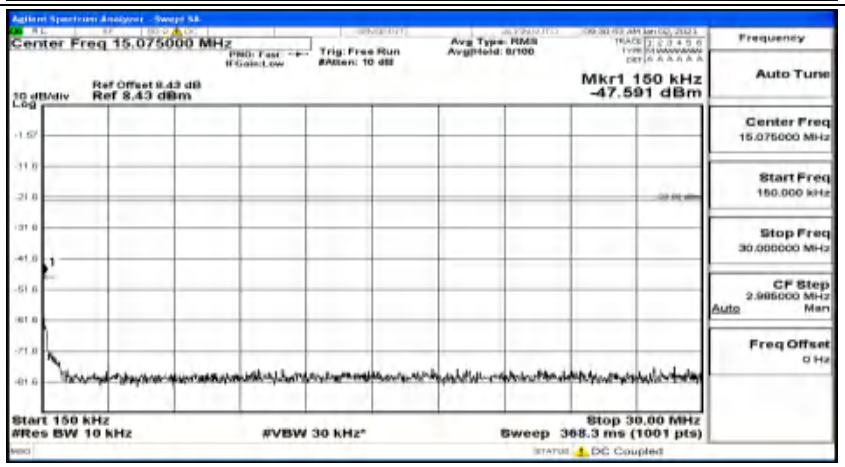

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



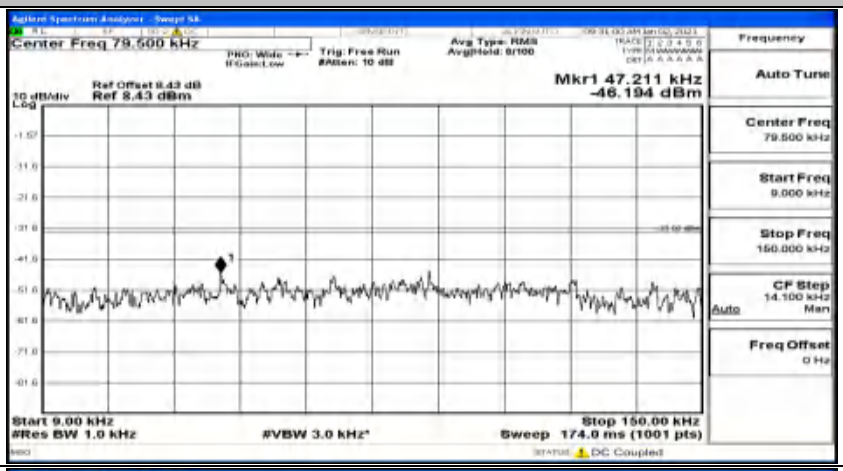
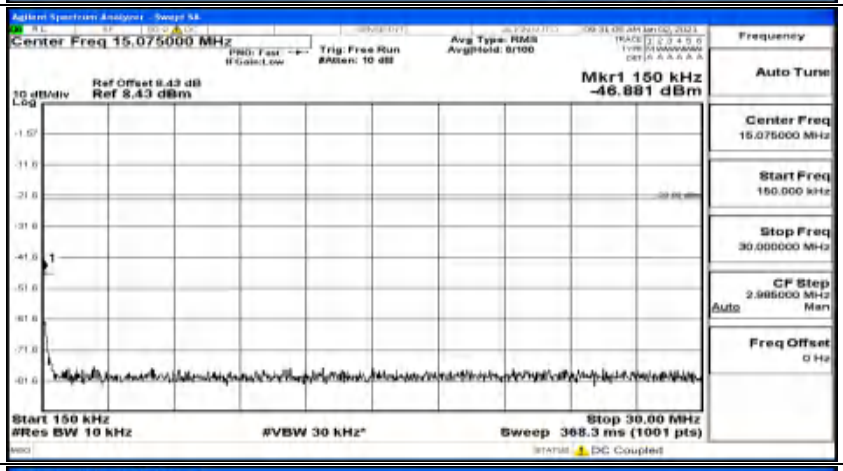

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3




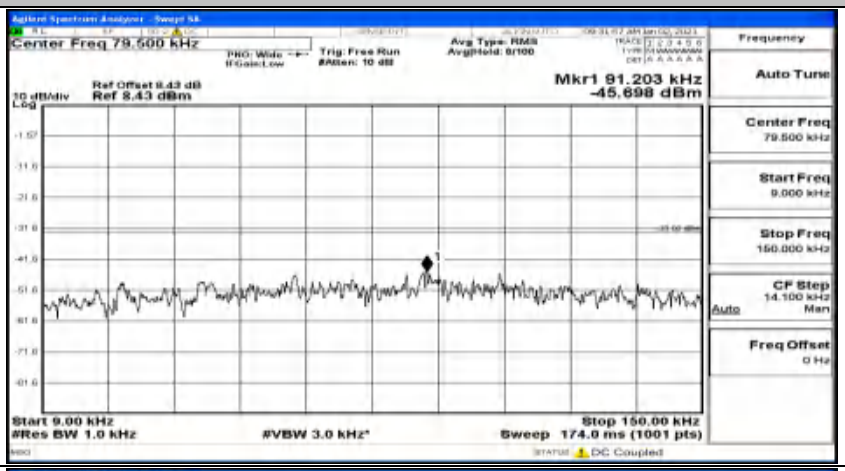
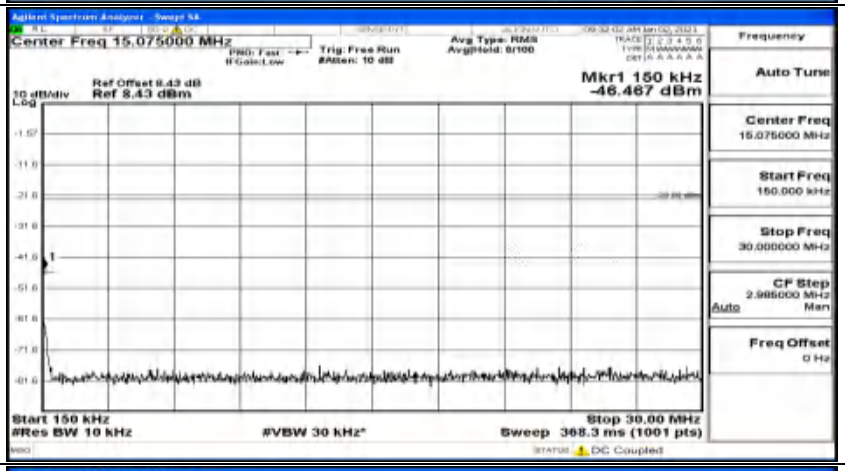
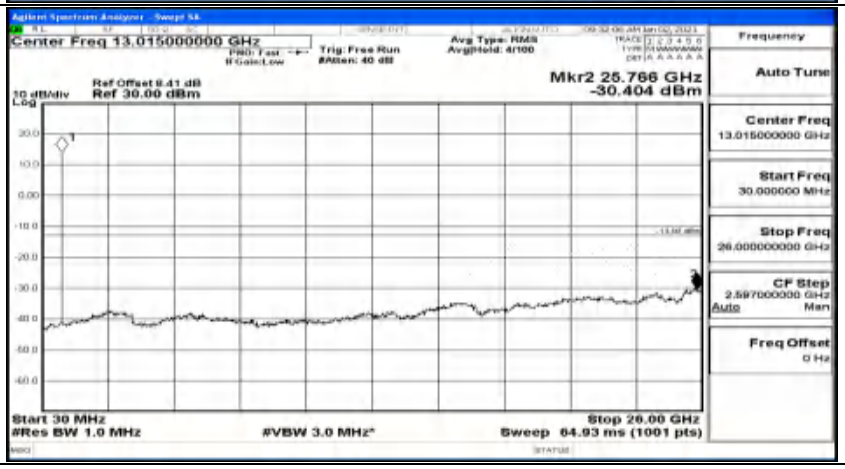
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5




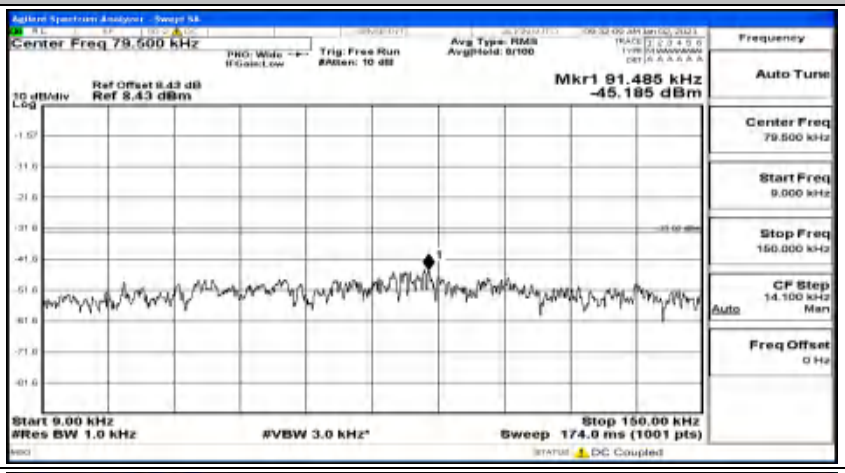
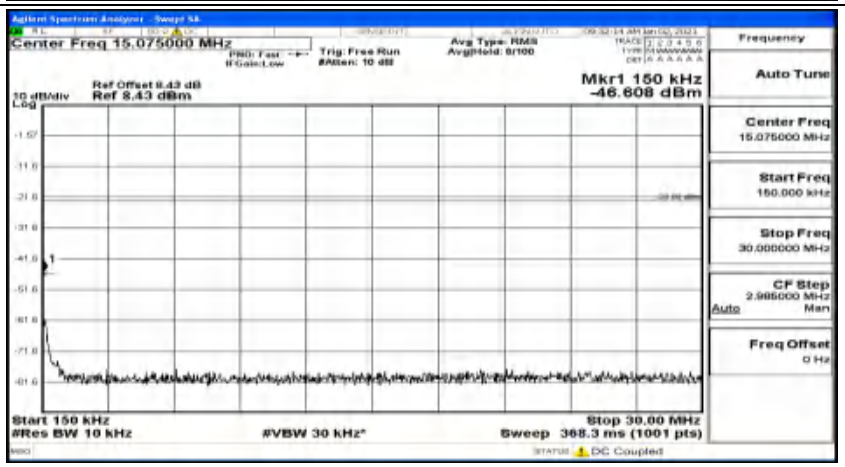
Channel Bandwidth: 3 MHz

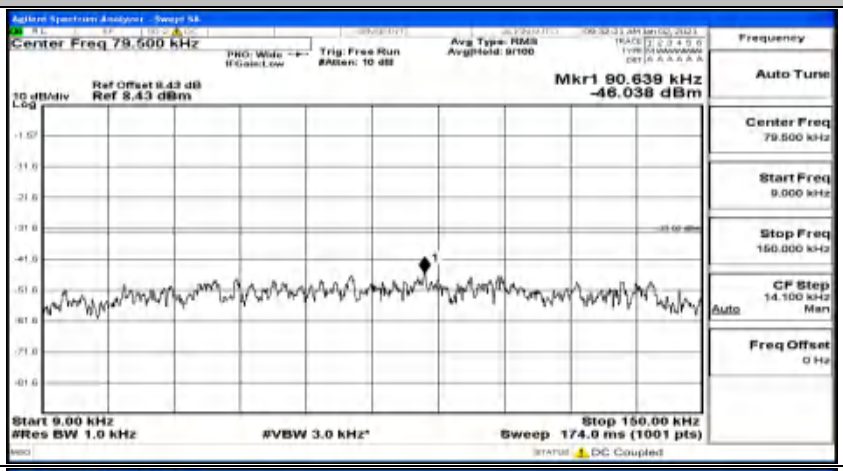
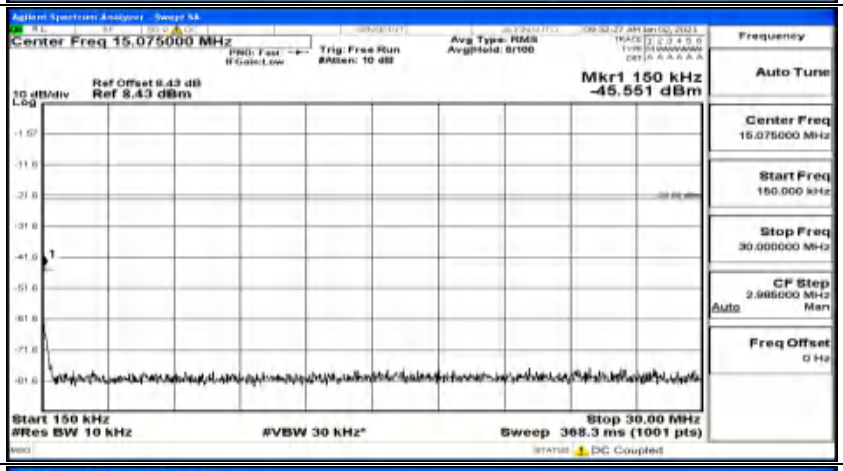
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0




(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



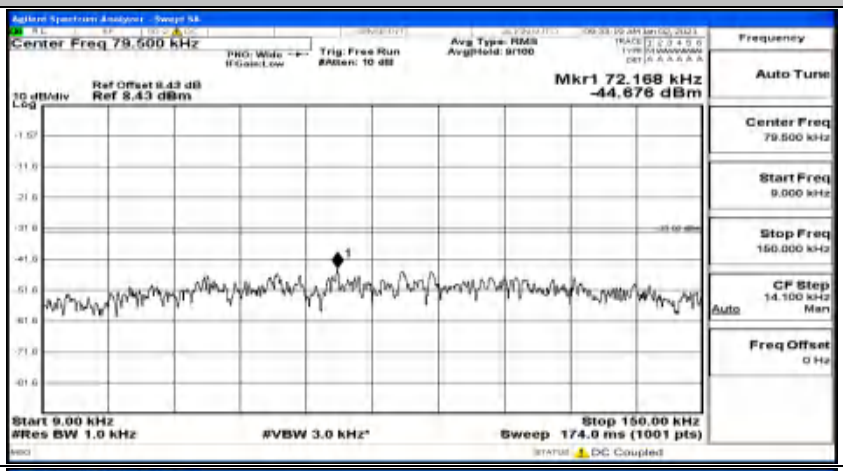

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



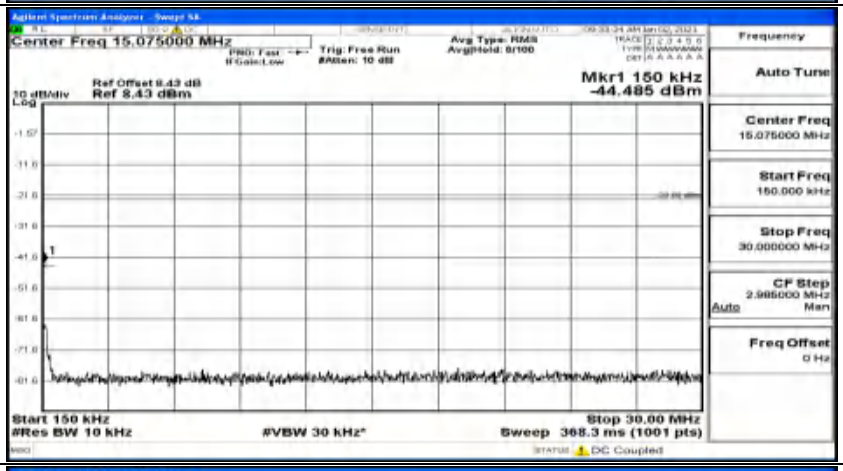

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0




(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7




(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14




(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0





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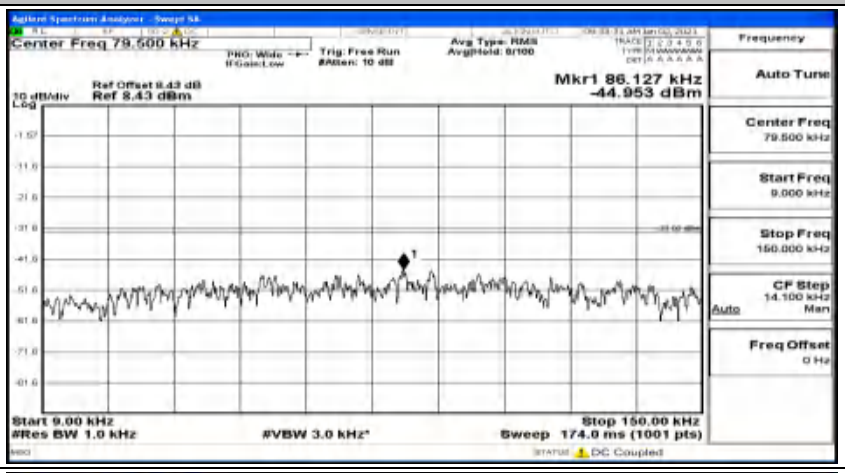
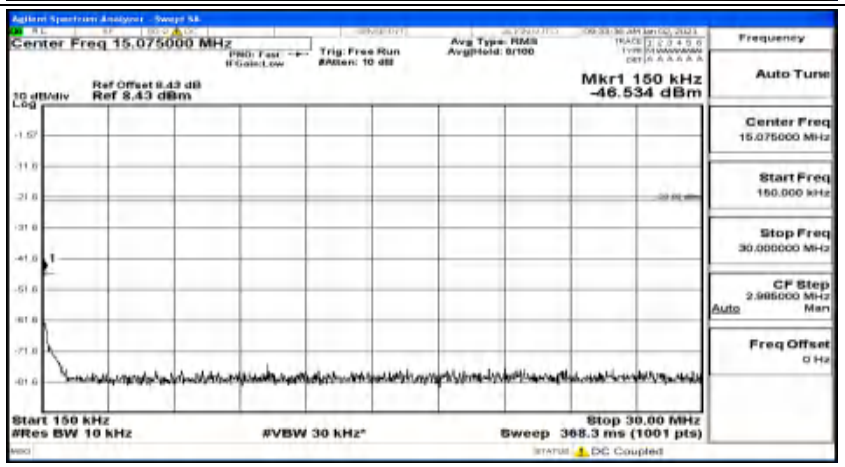
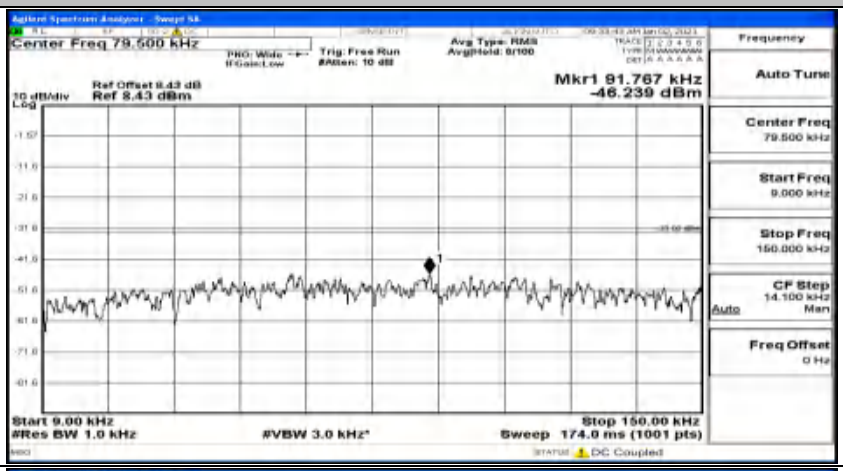
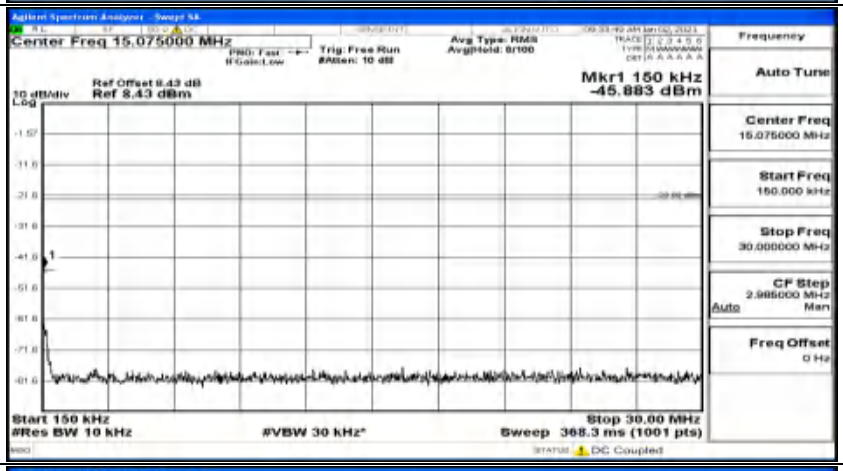
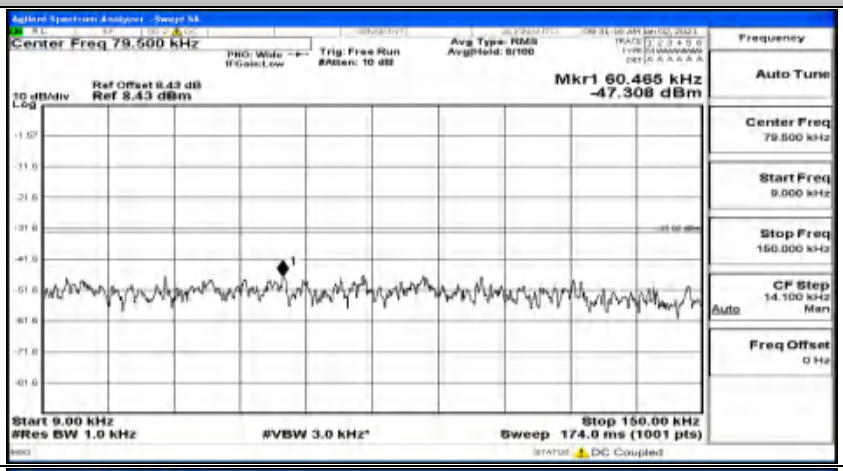
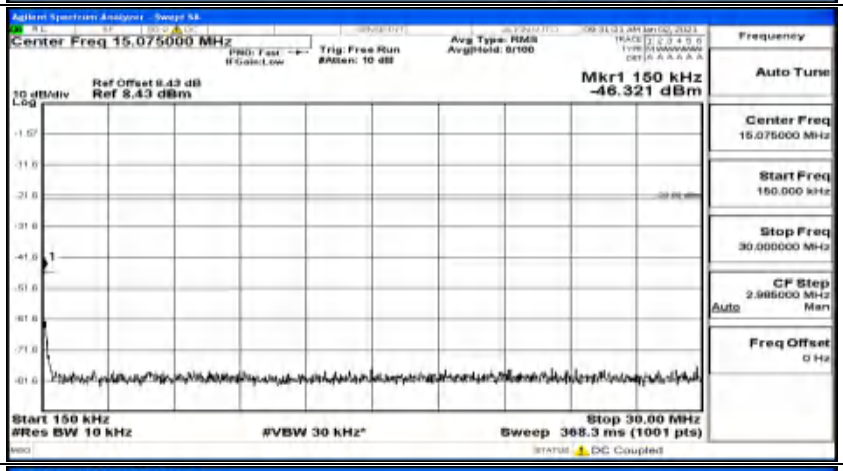
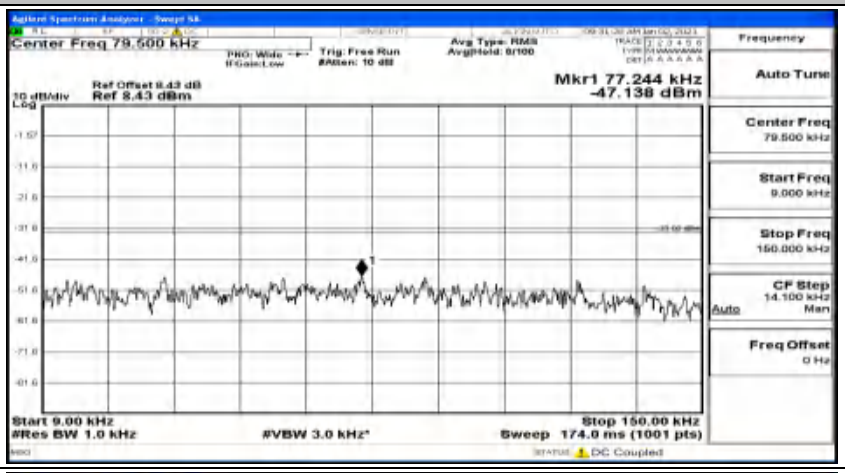
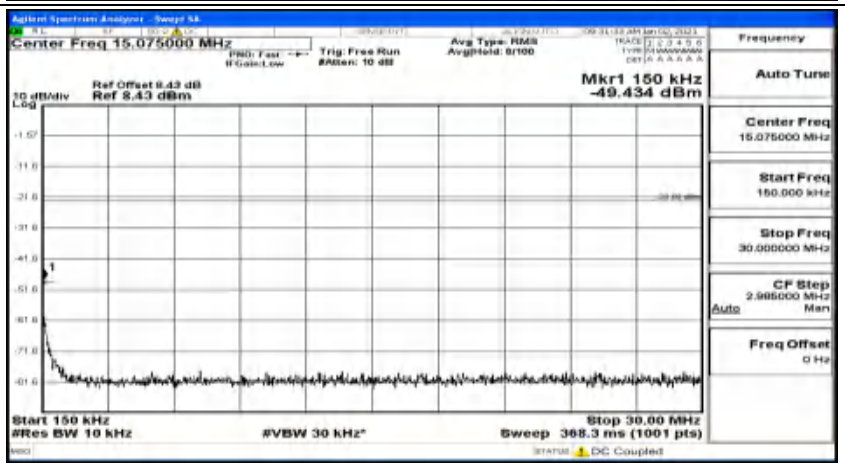
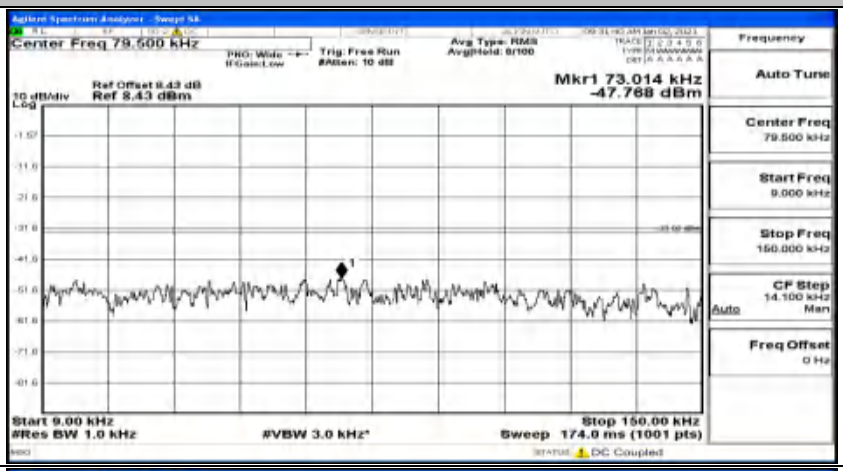
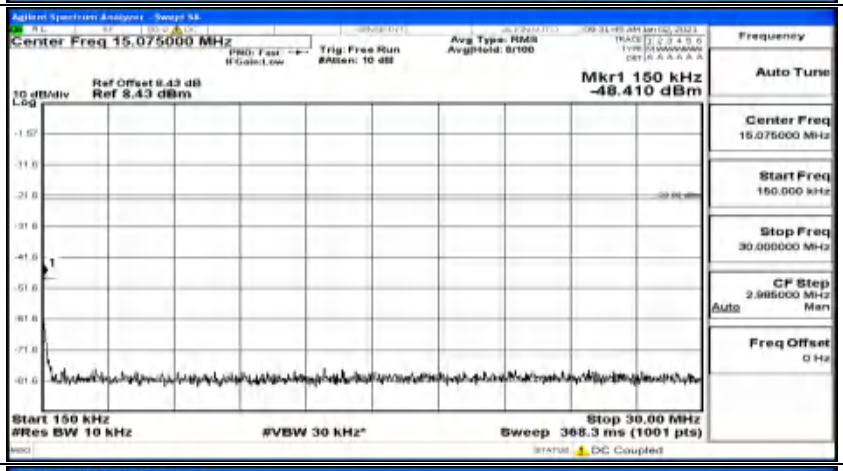
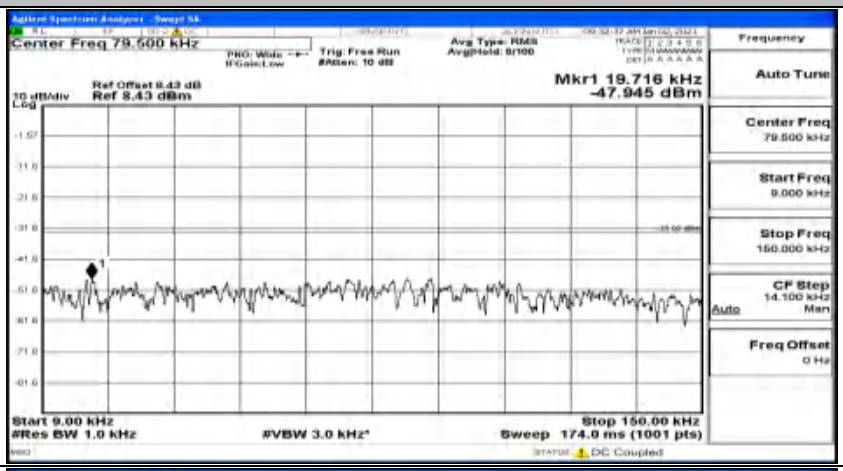
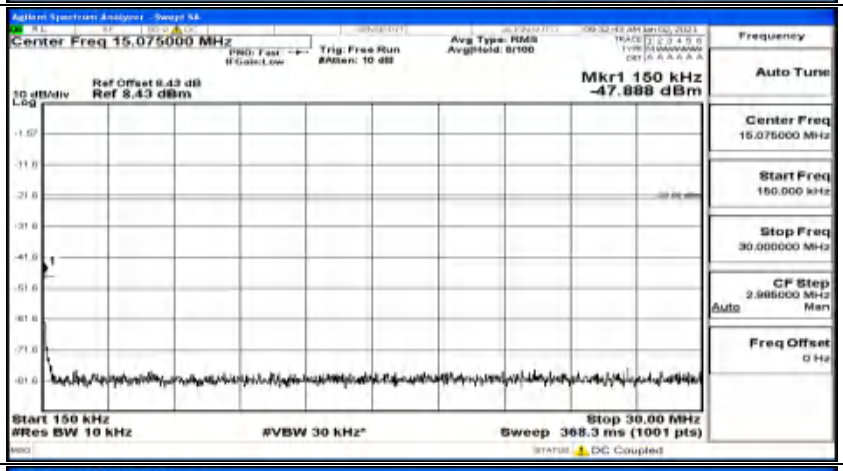



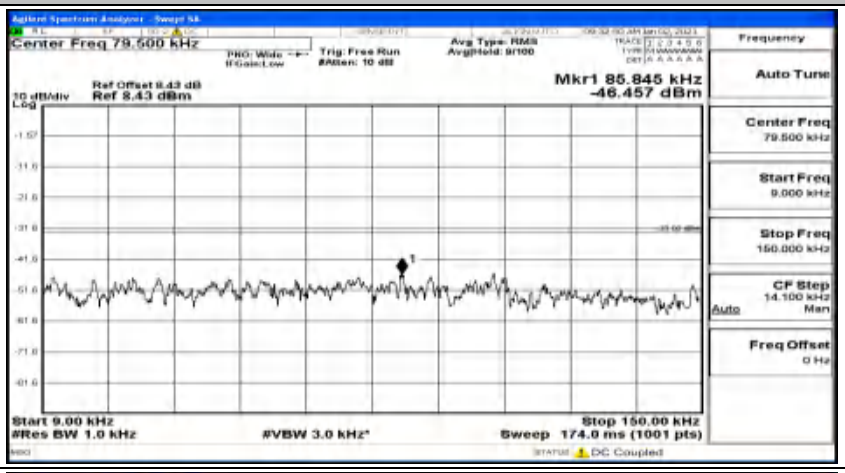
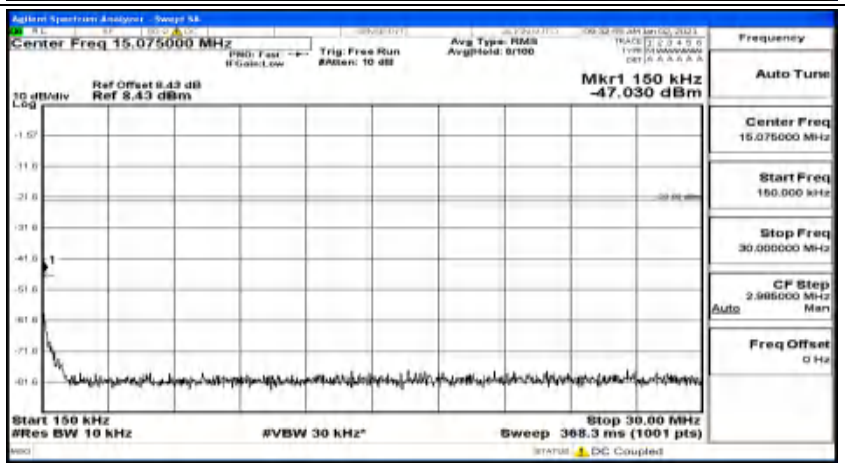

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



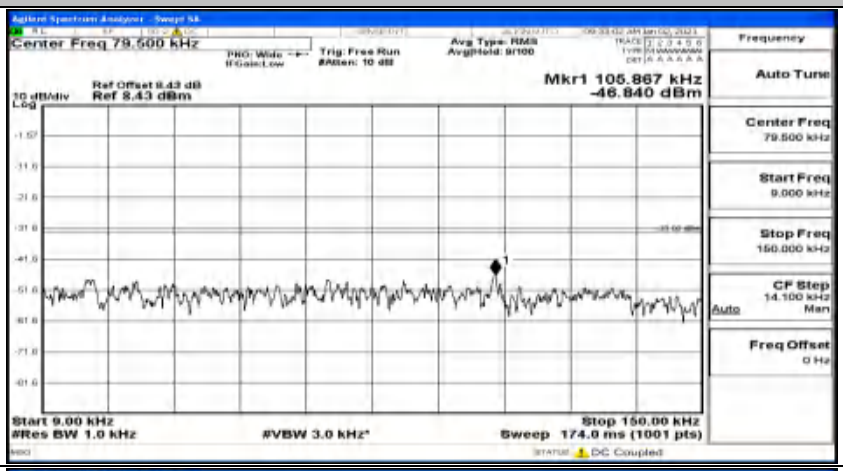
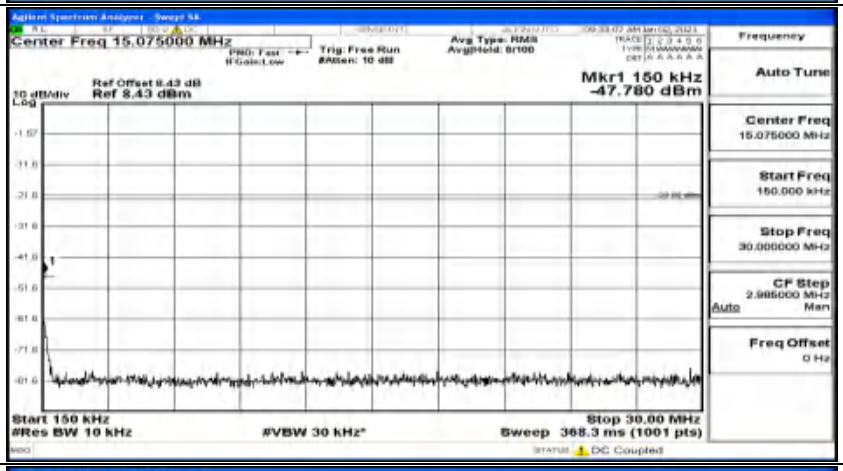

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



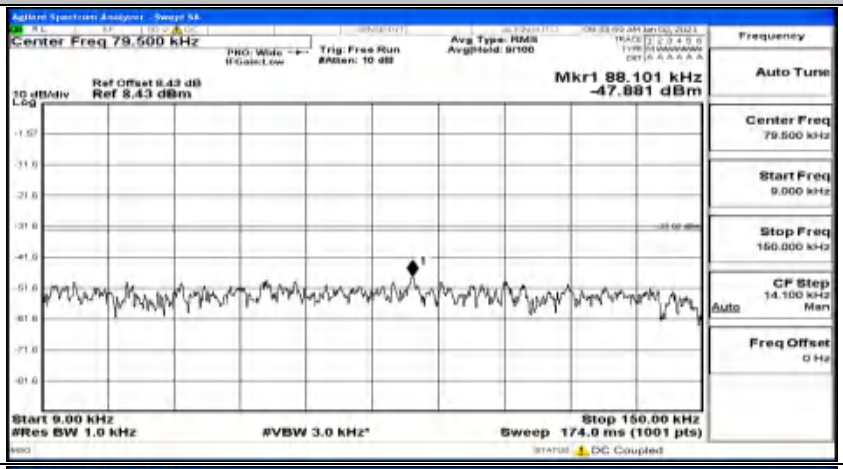
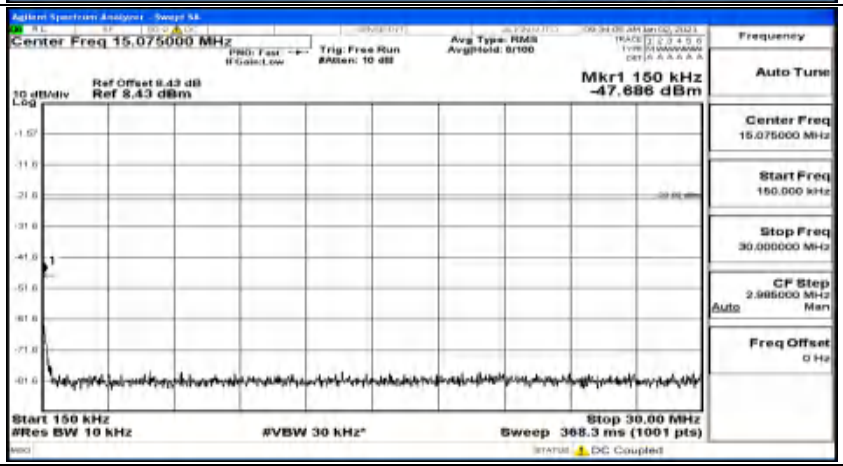

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



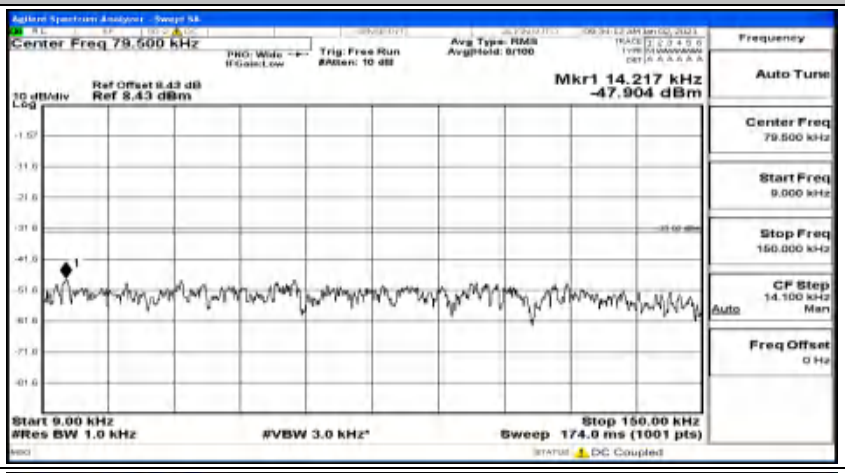
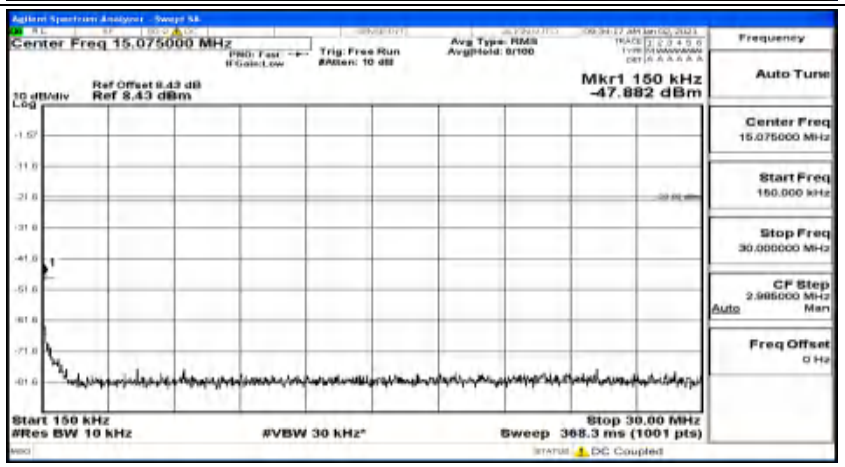

(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



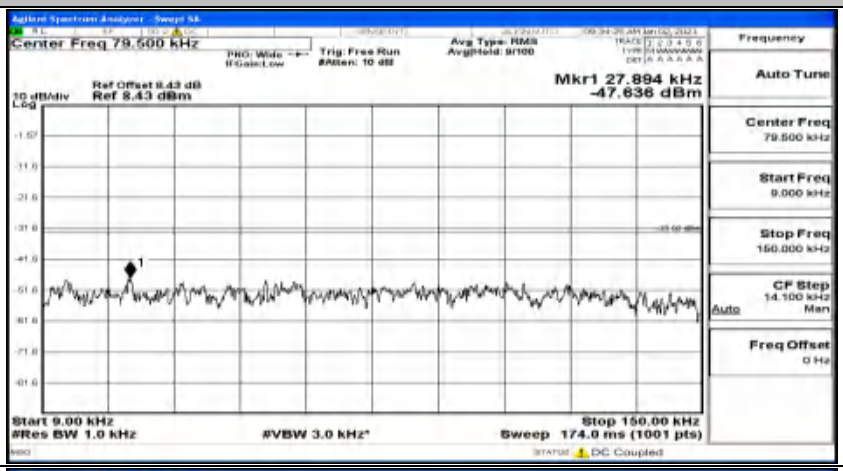
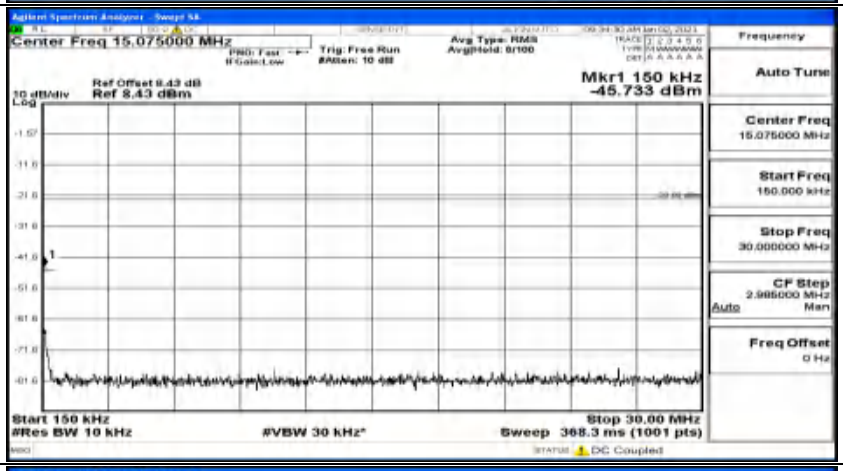

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0




(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



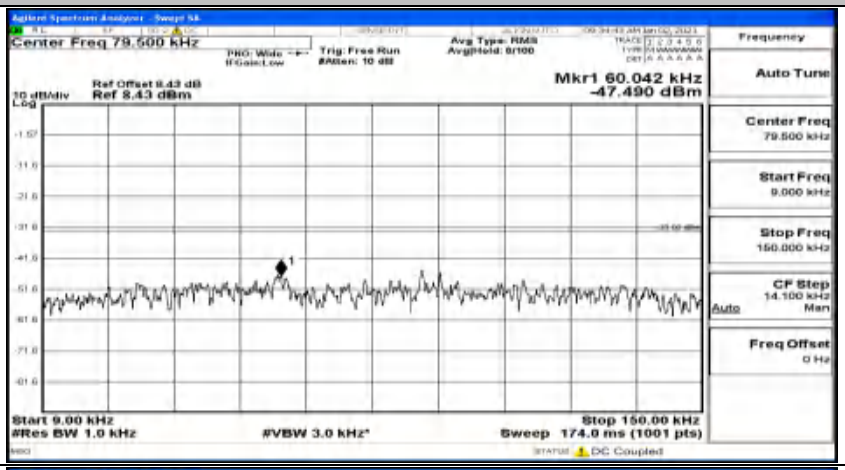
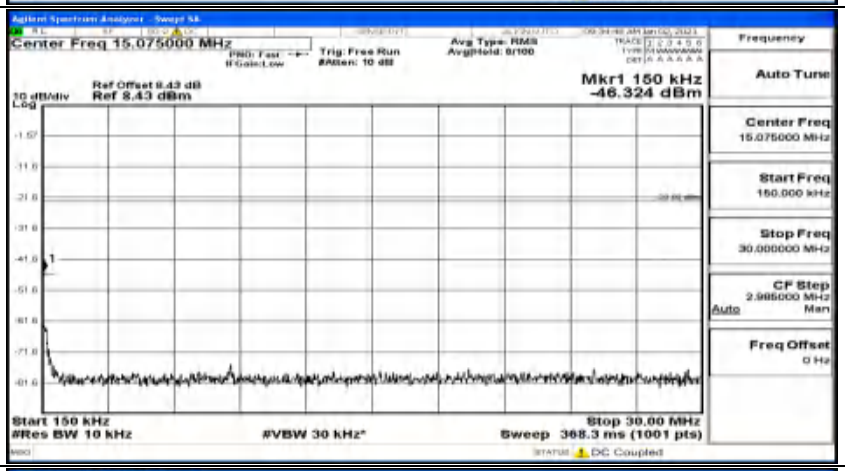
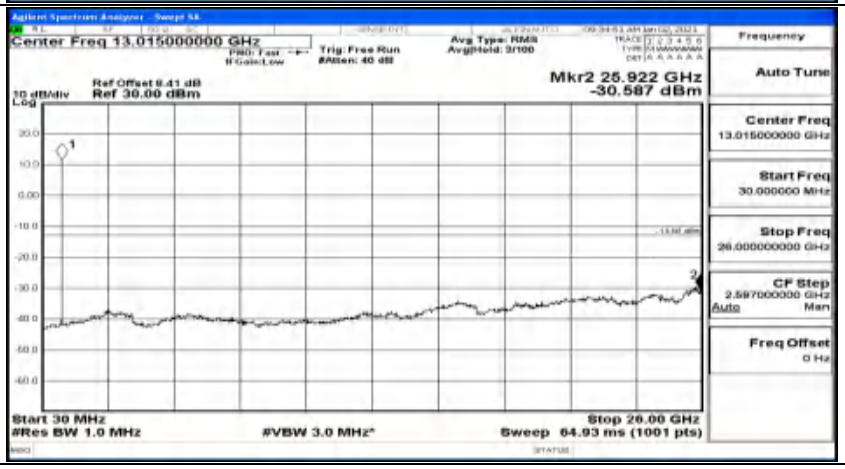

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



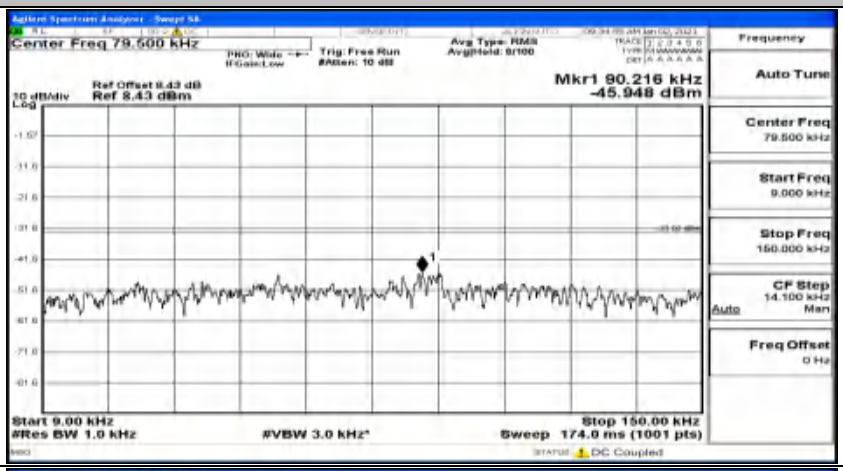
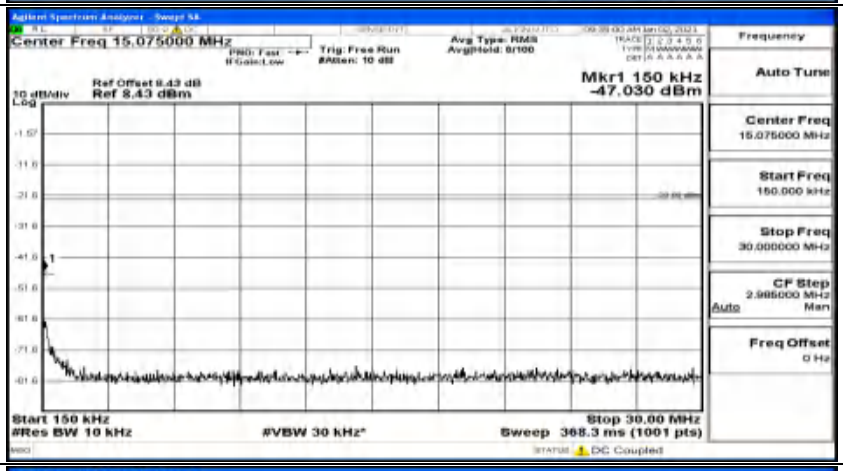

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0




(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7




(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14




Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0




(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

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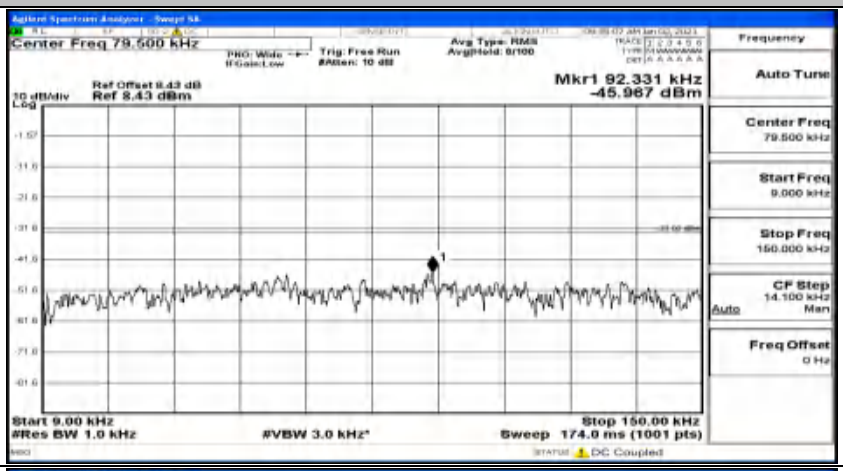
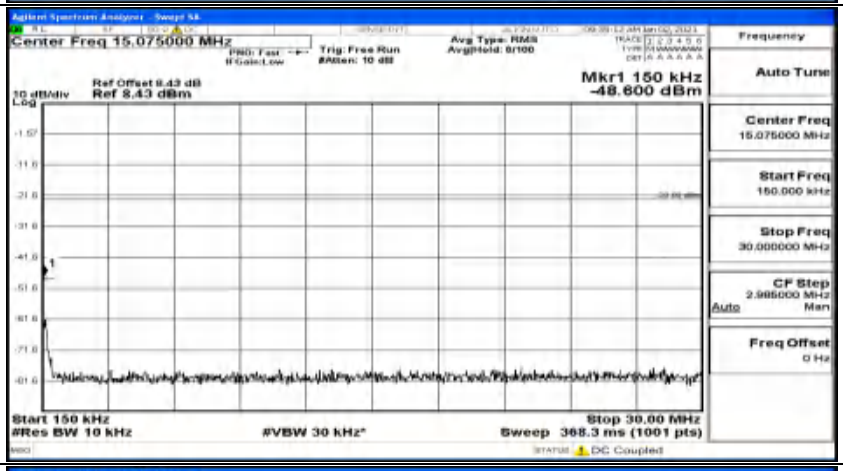
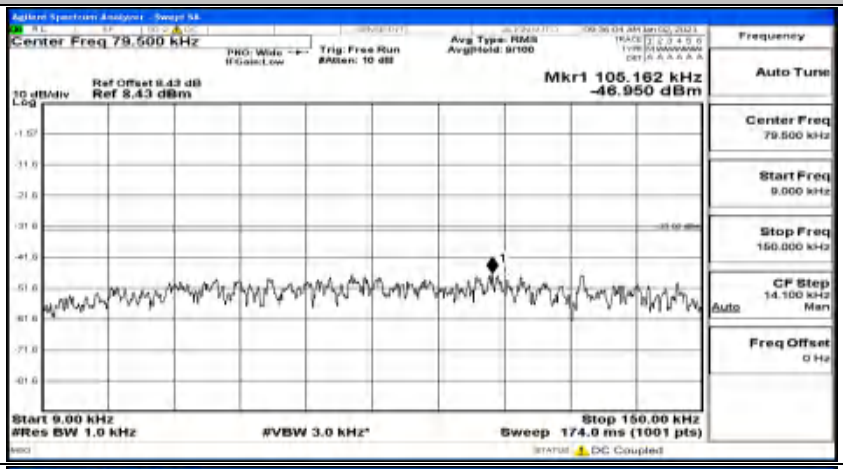
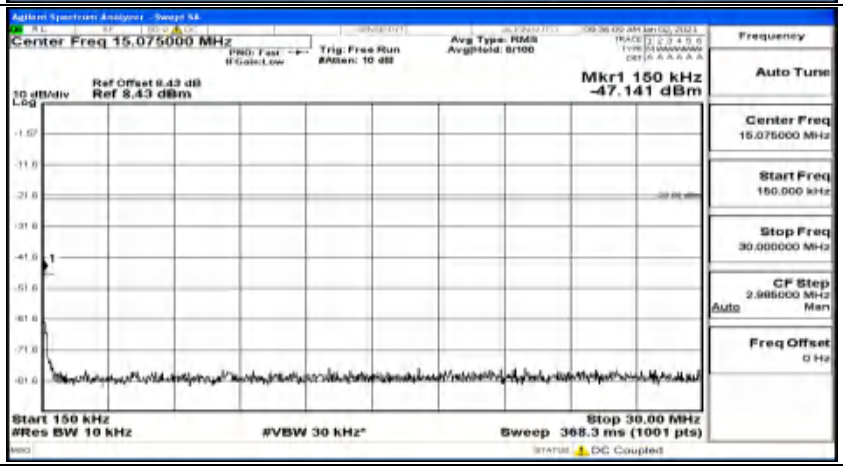




(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

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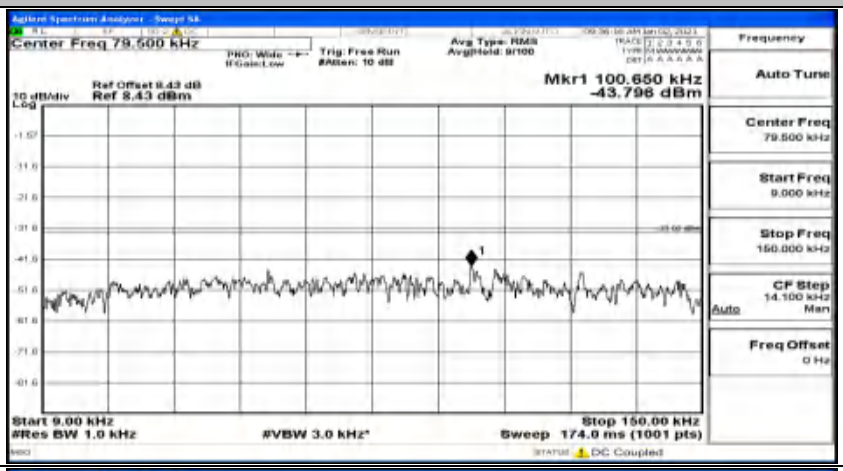
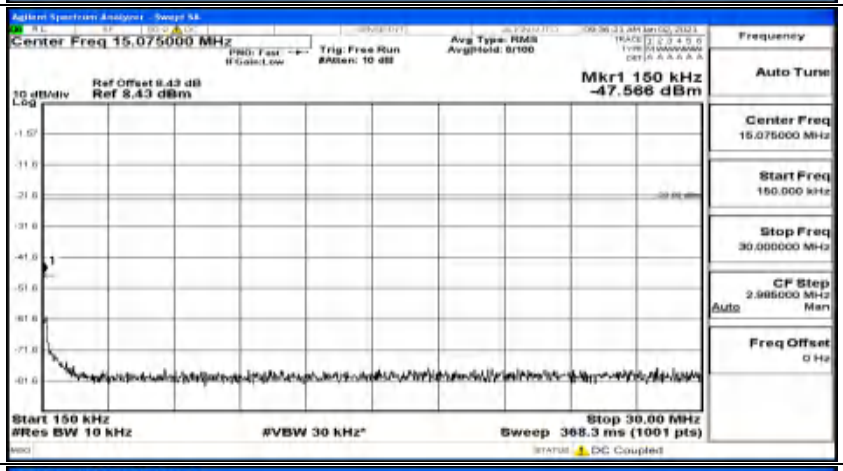


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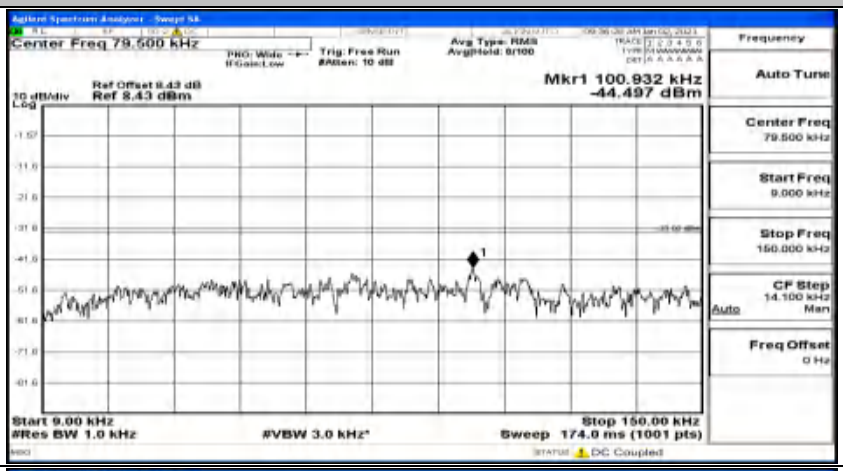
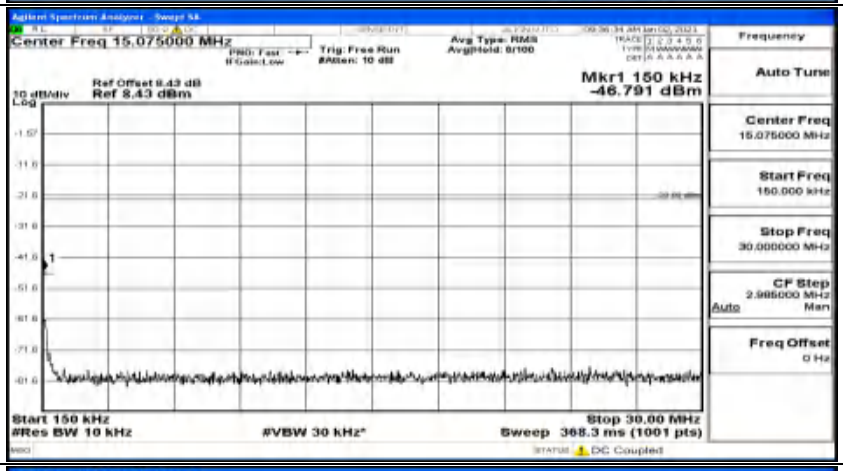
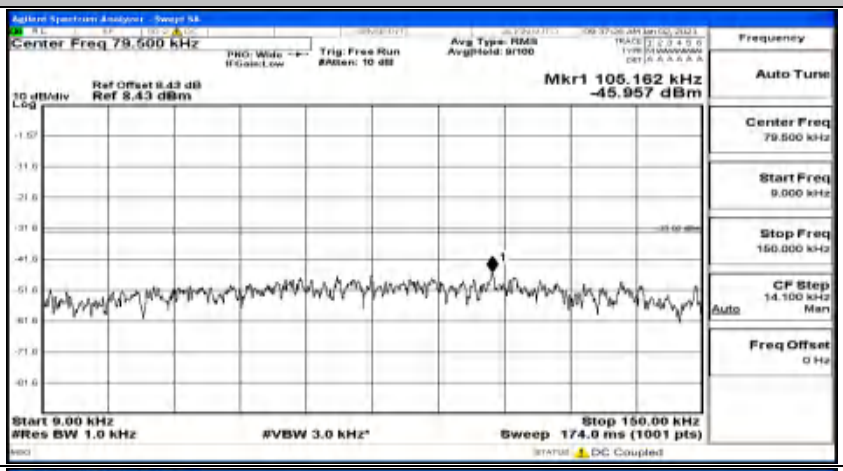
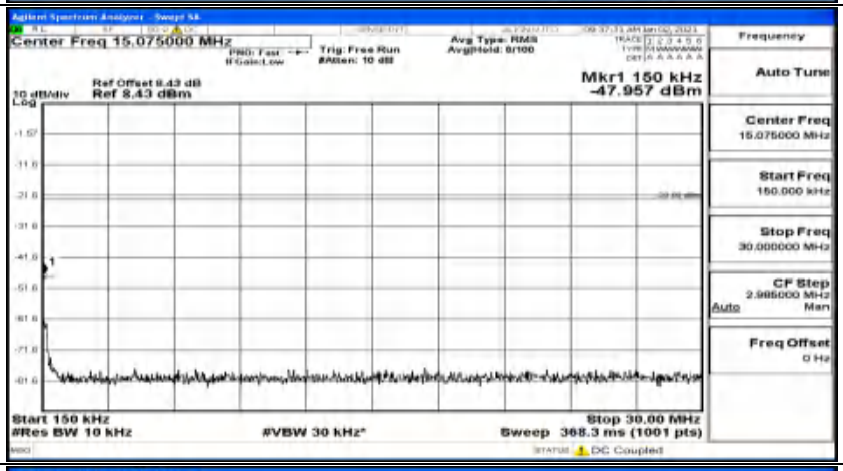
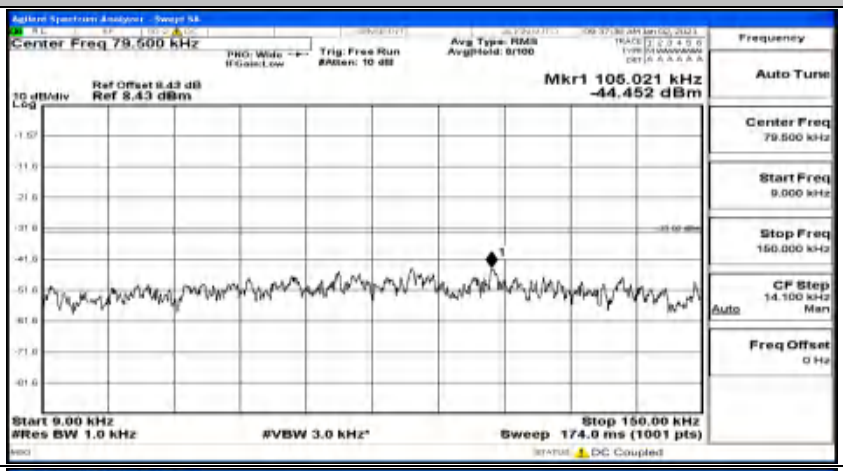
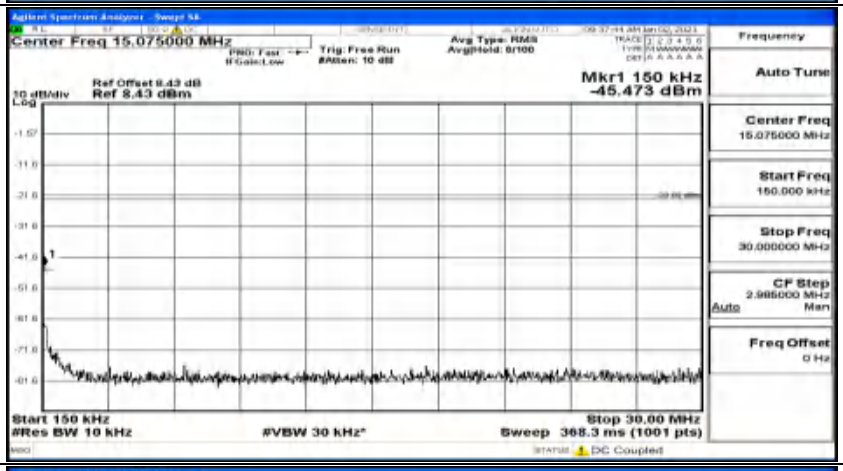
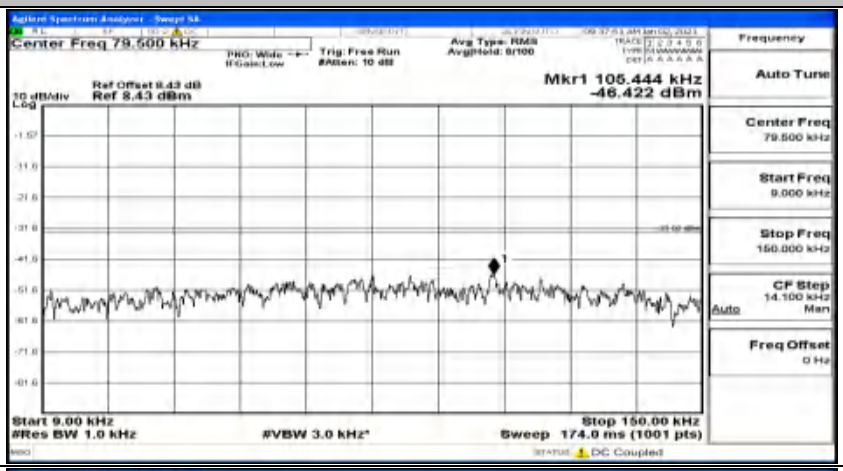
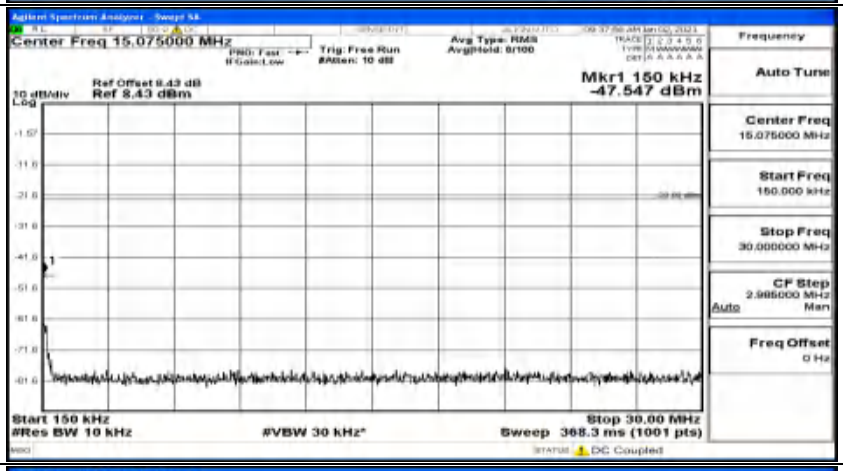
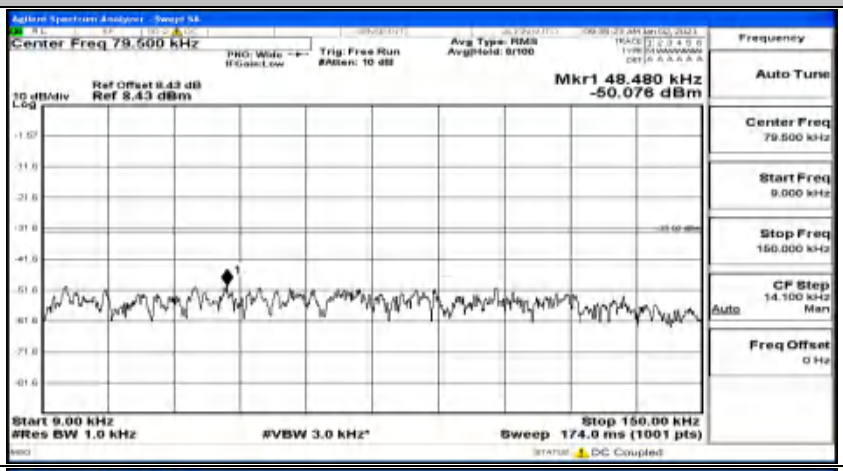
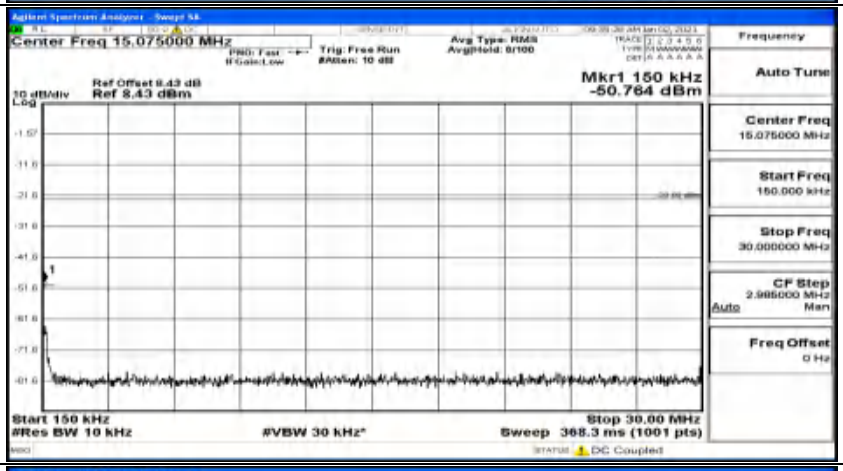




(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0




(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12




(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24




(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

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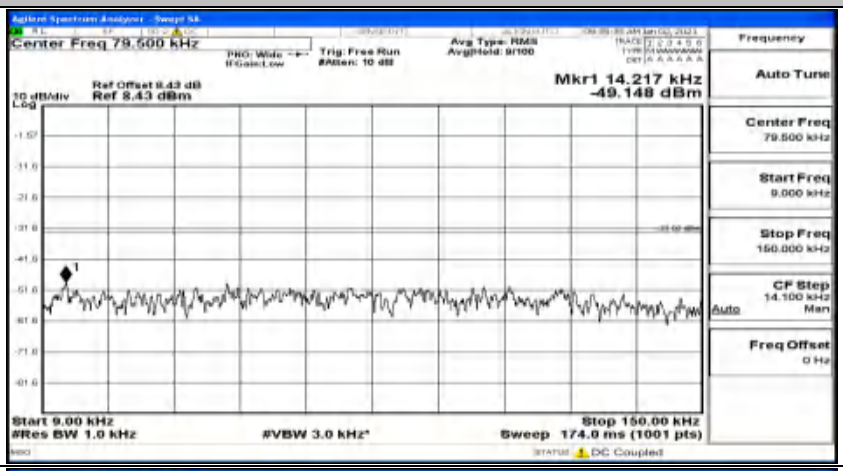
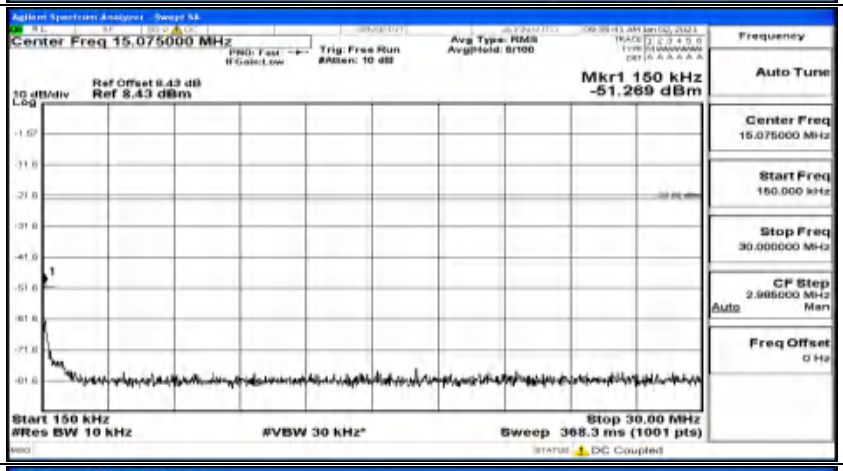


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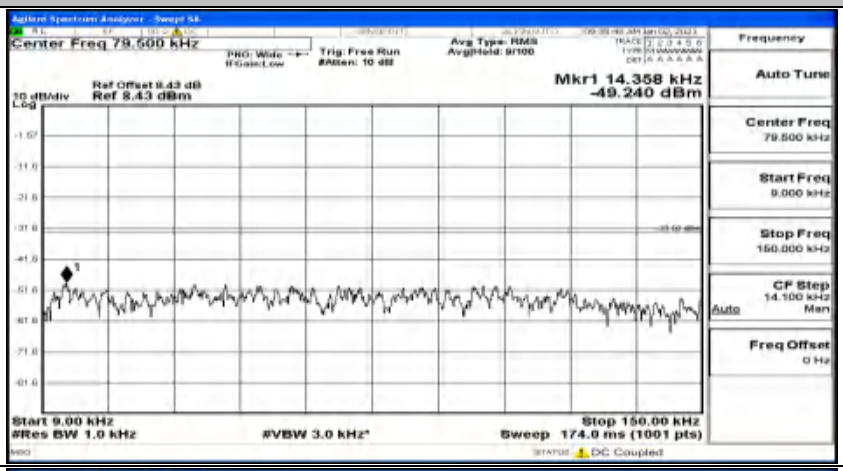
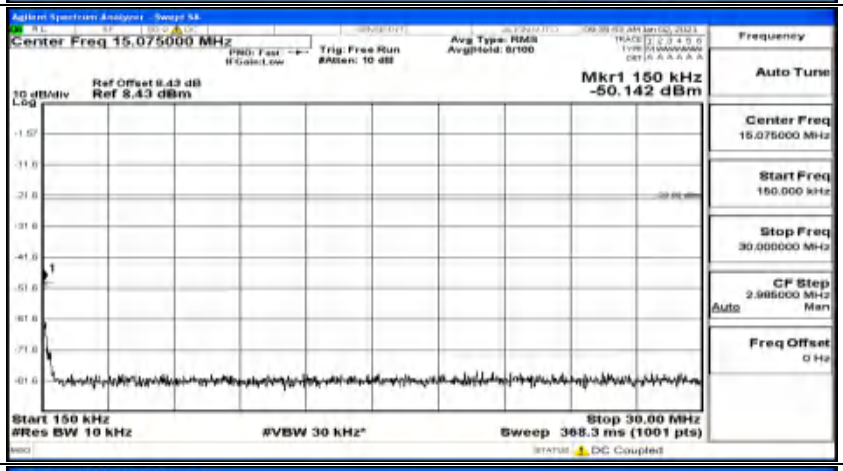
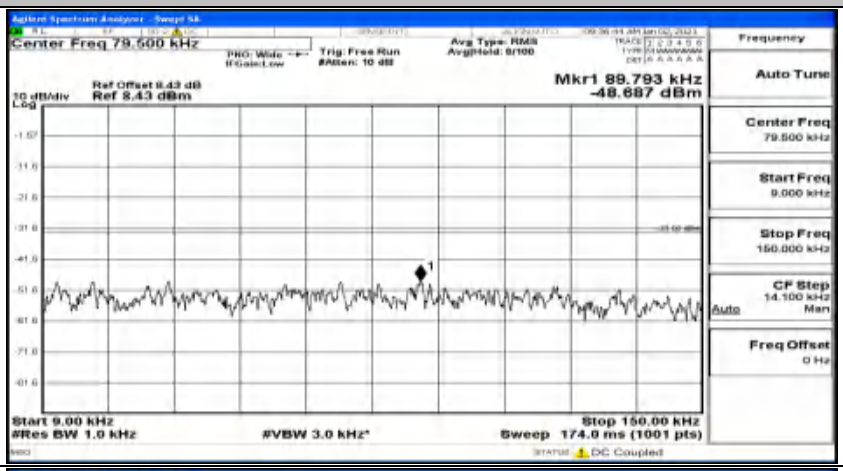
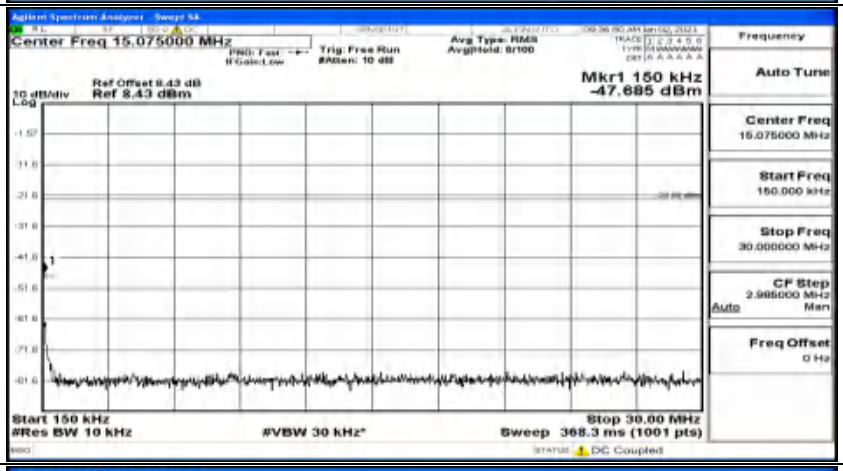
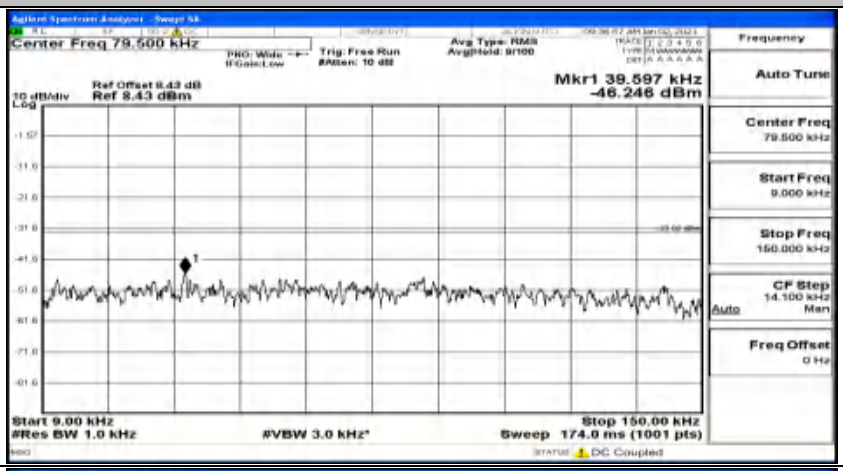
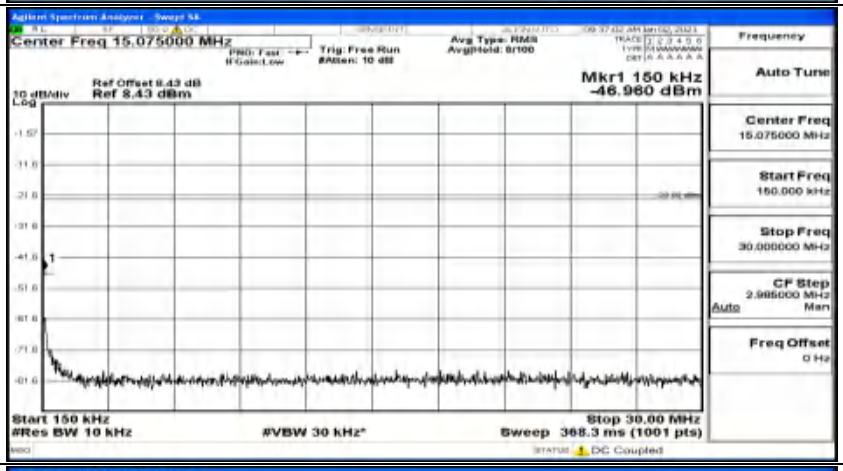
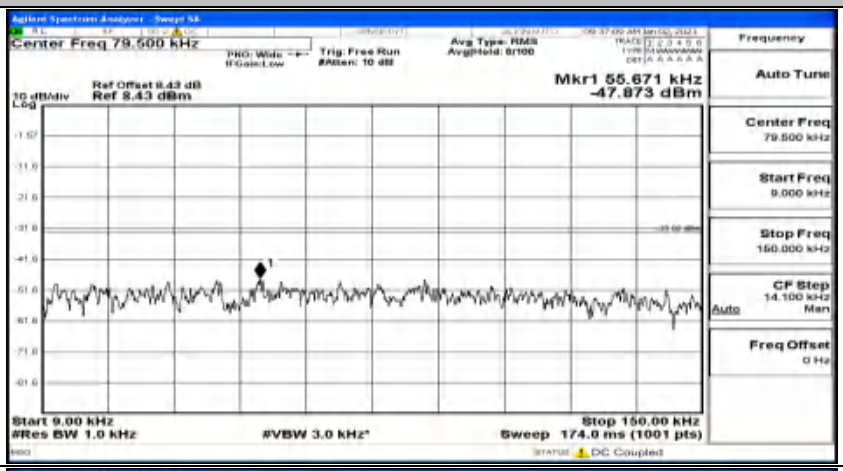
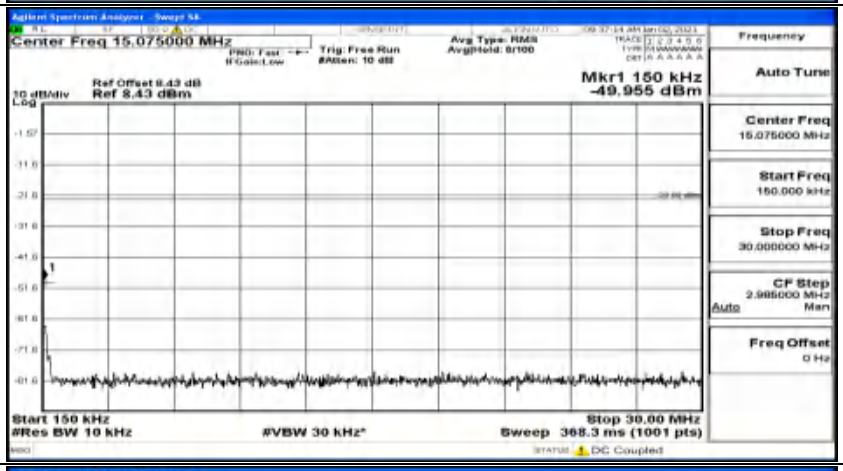
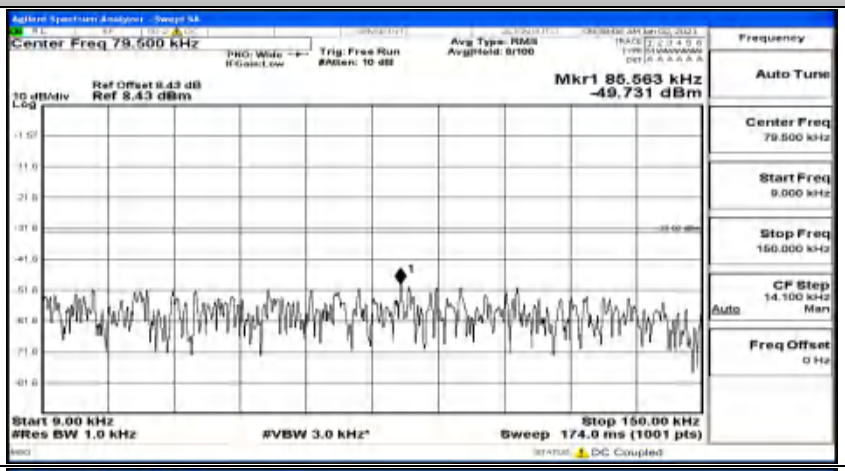
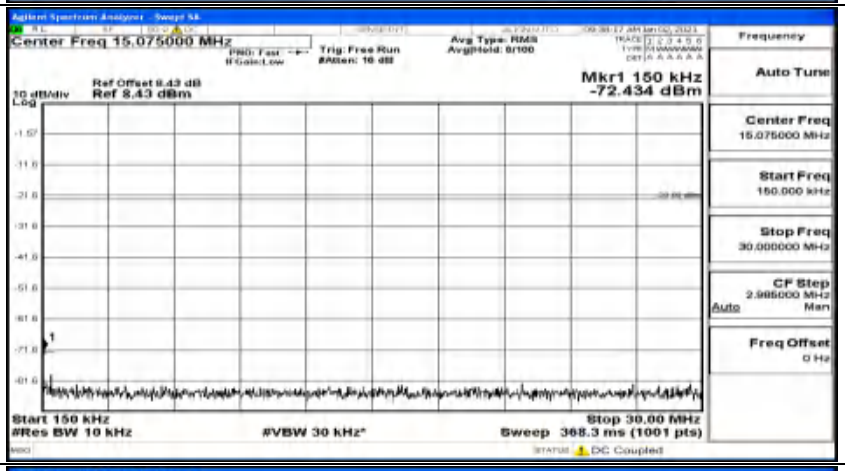
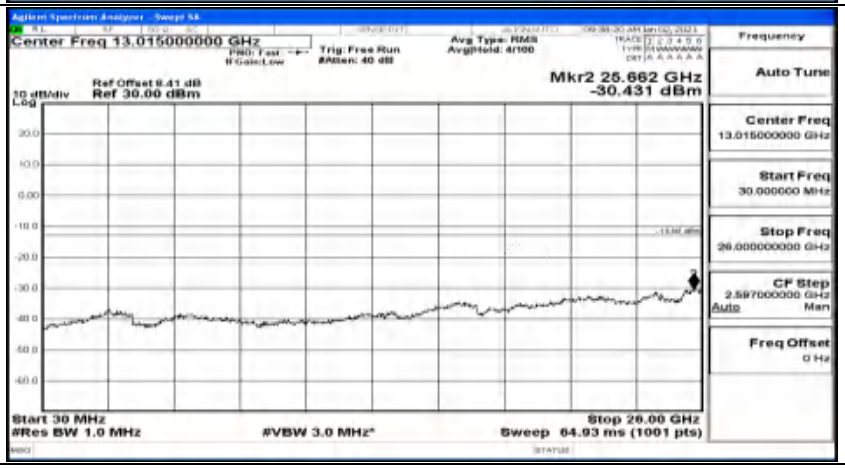
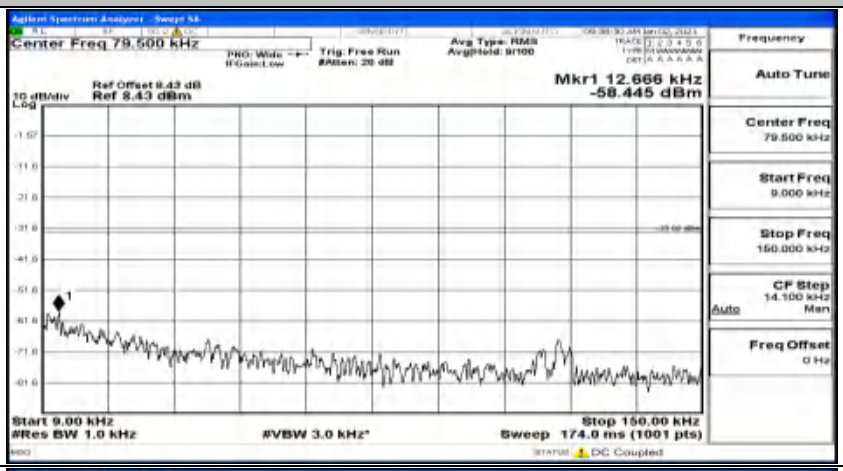
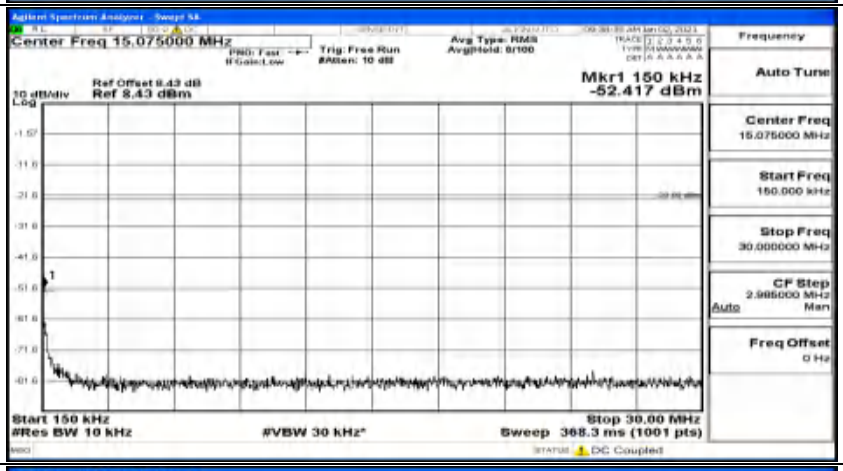



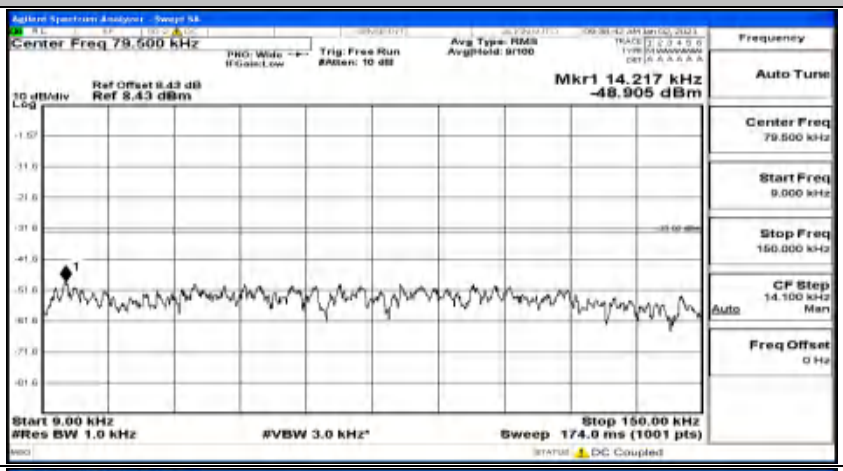
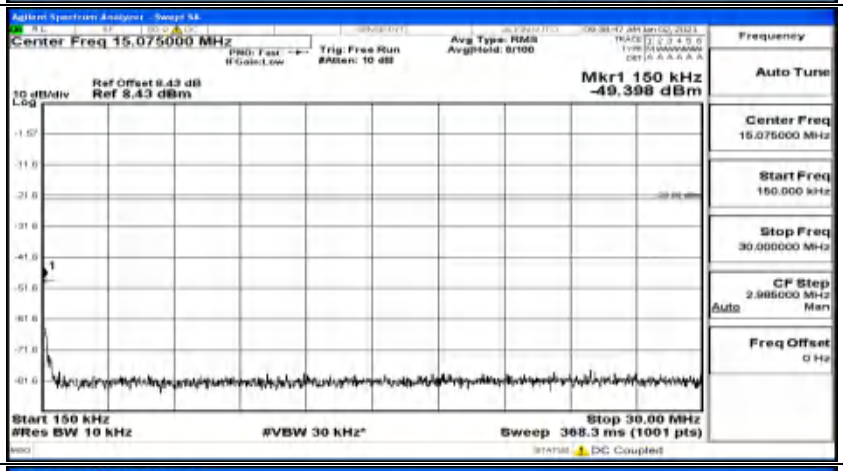

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0




(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



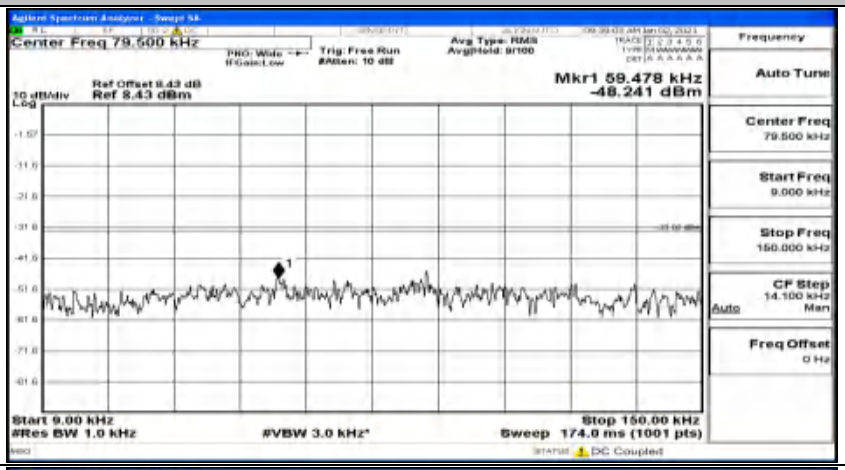
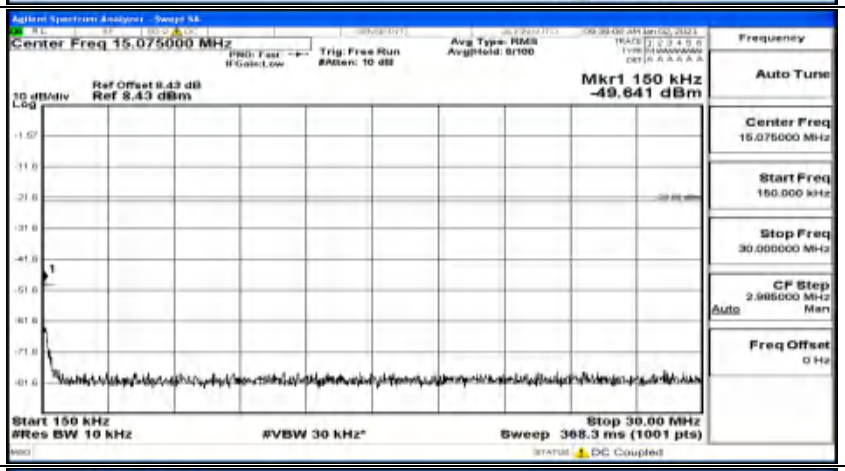
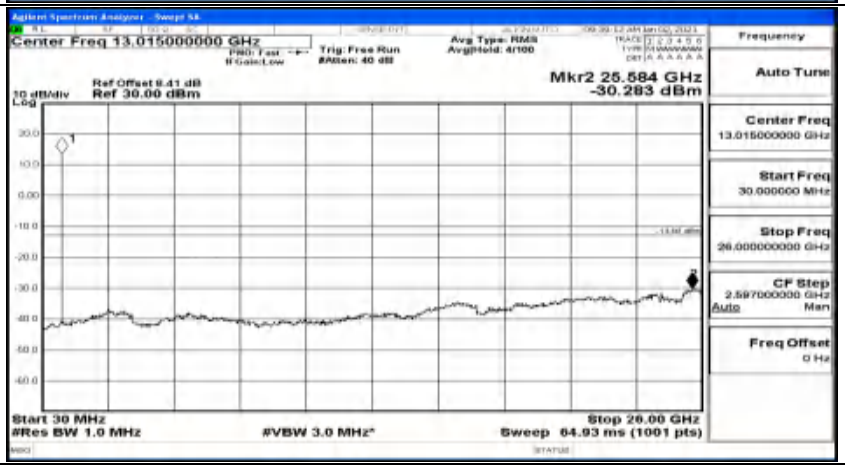

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



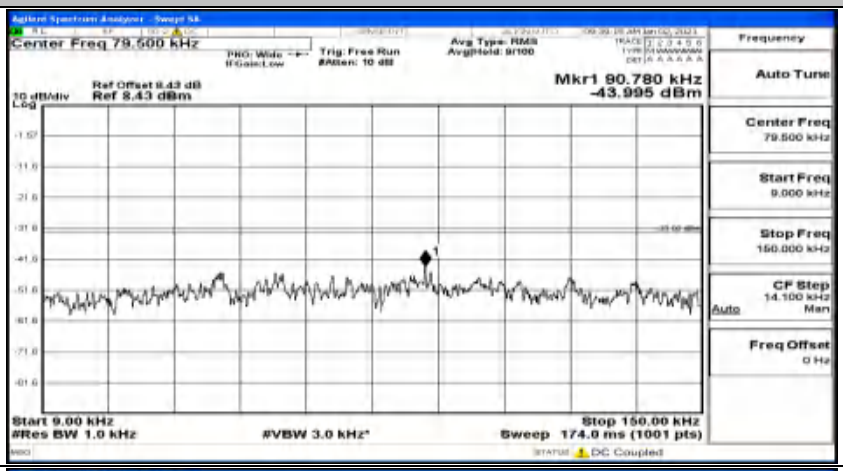
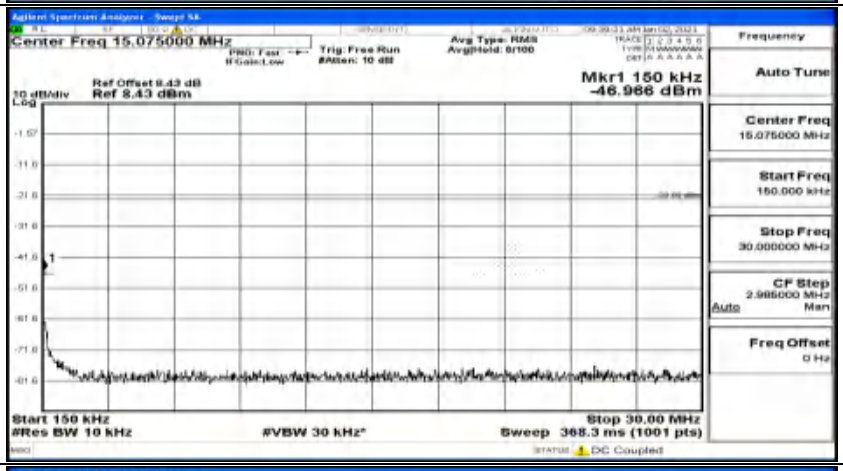

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0




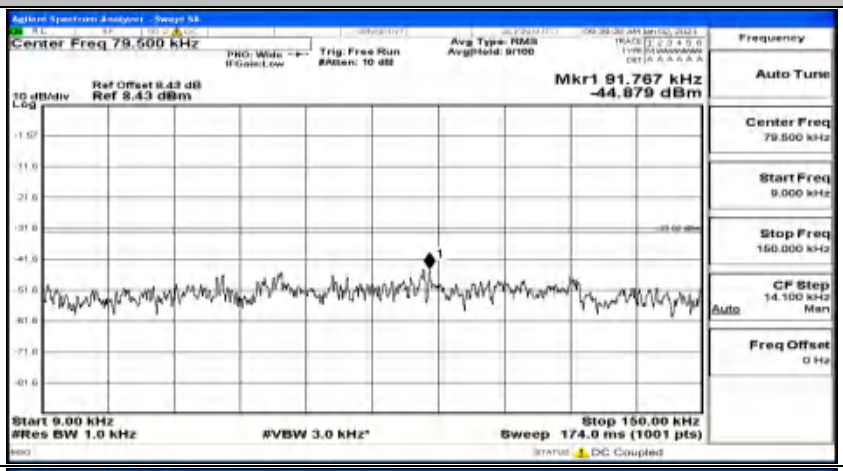
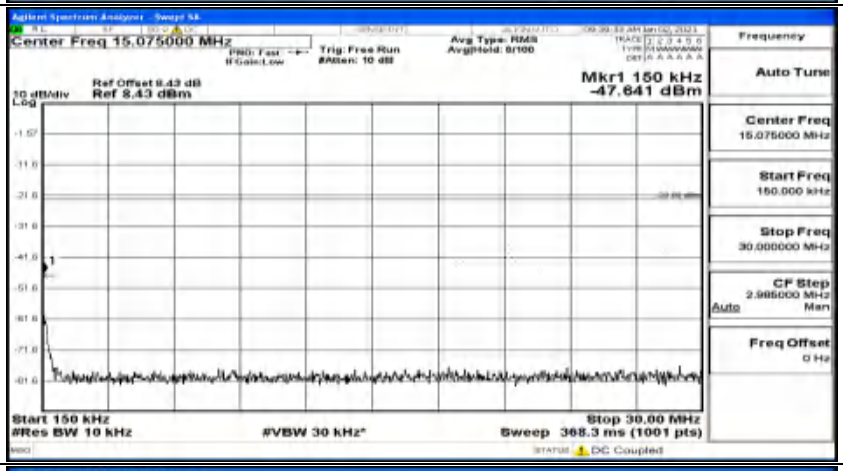
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



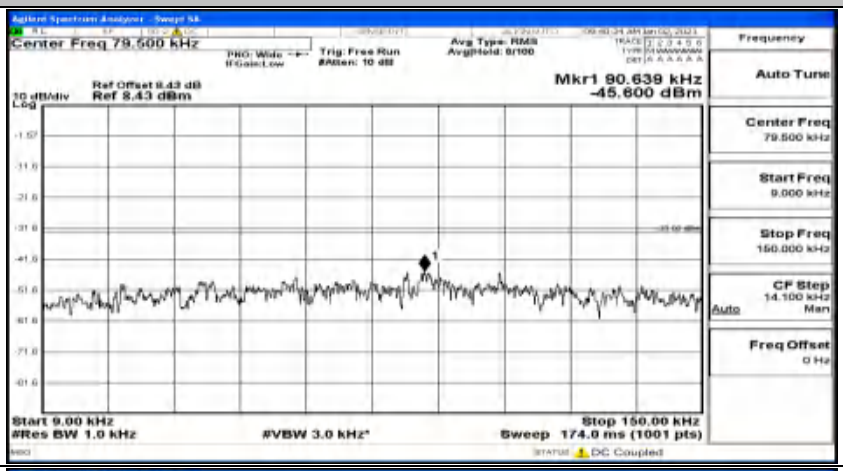
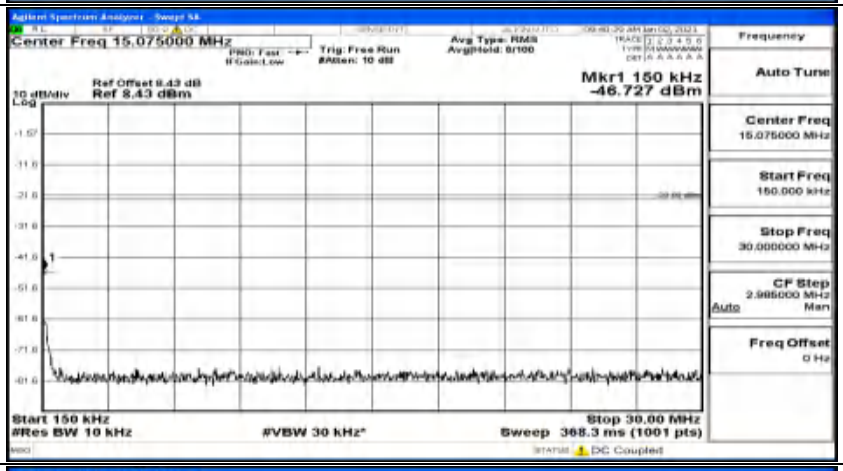

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



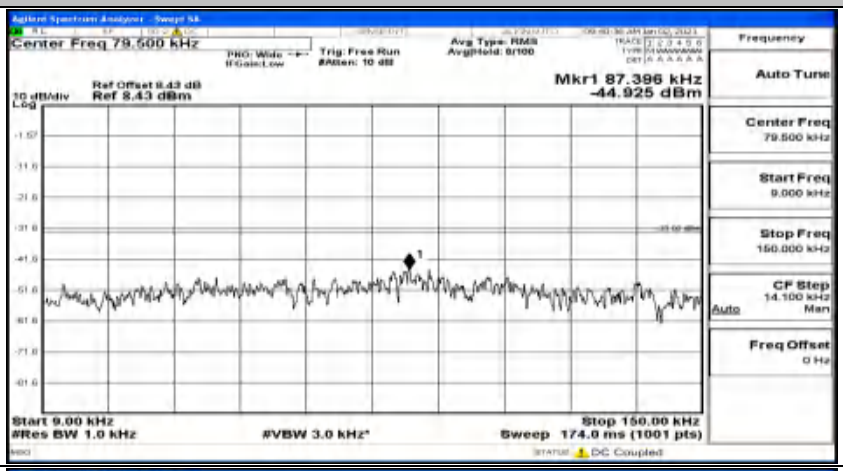
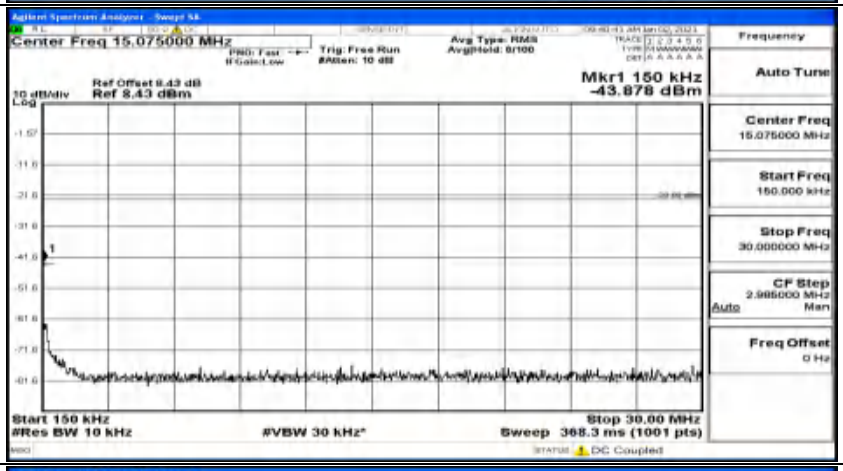

Channel Bandwidth: 10 MHz

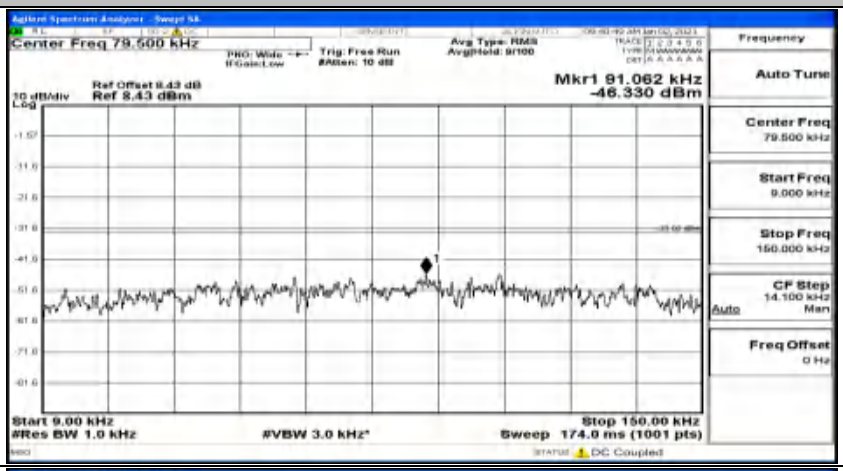
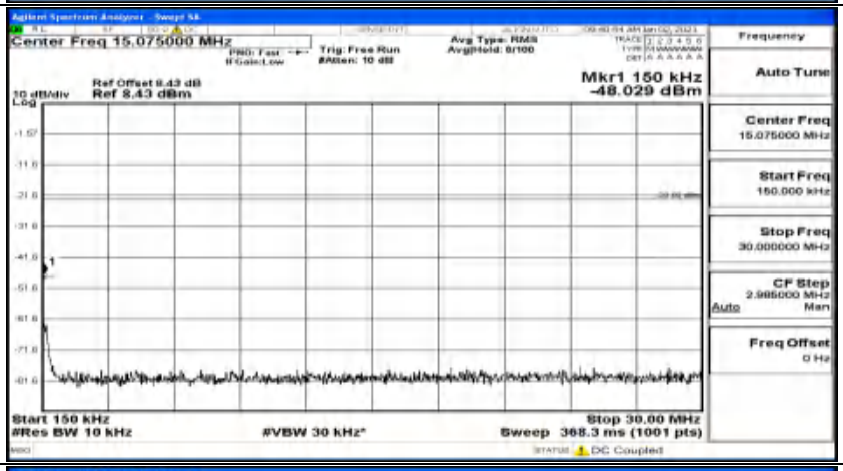
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0




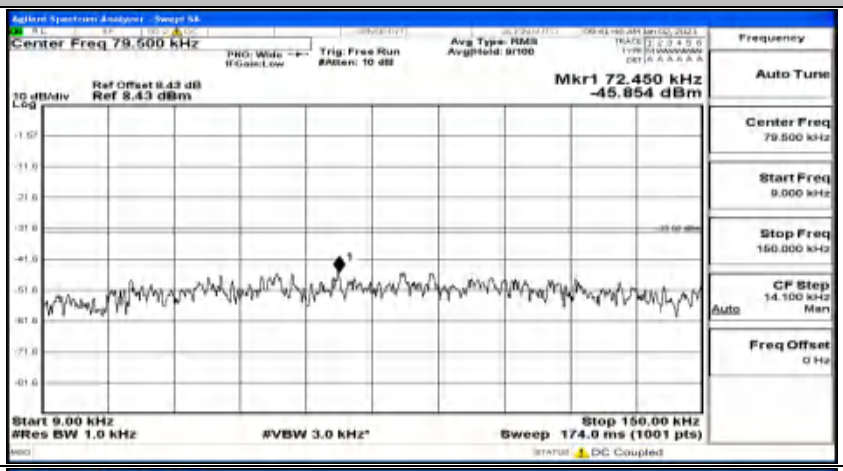
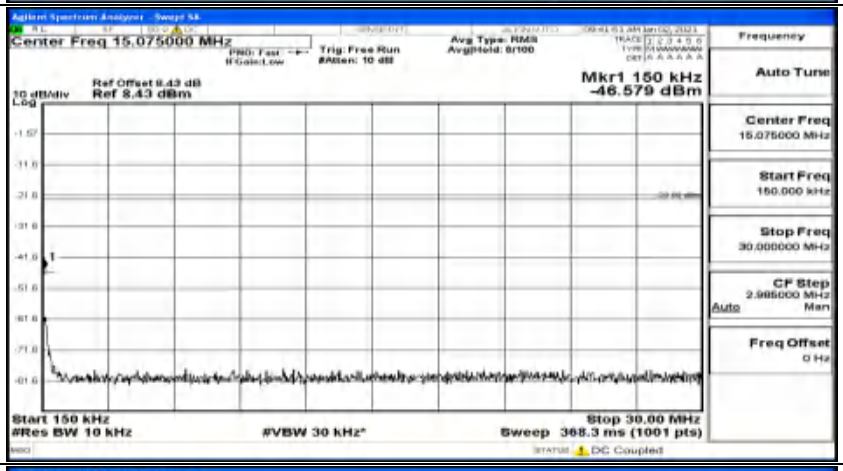
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



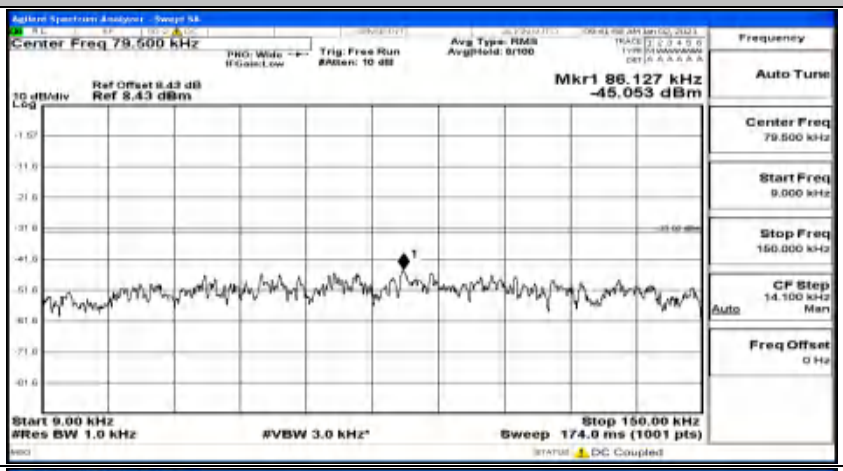
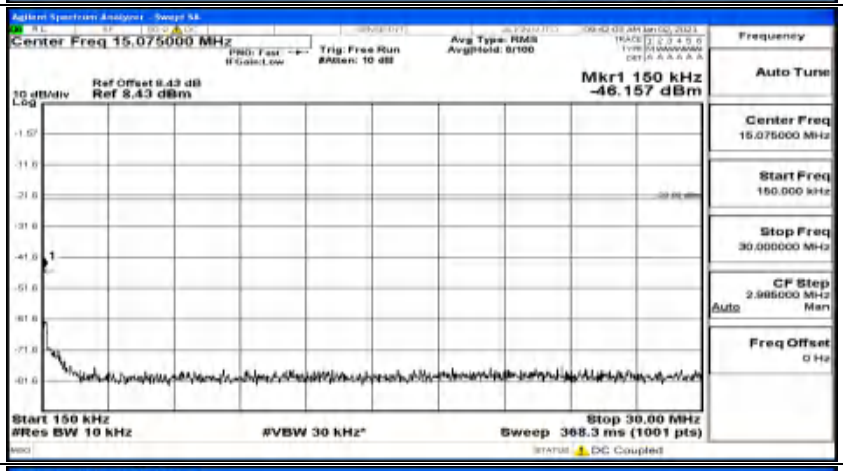

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



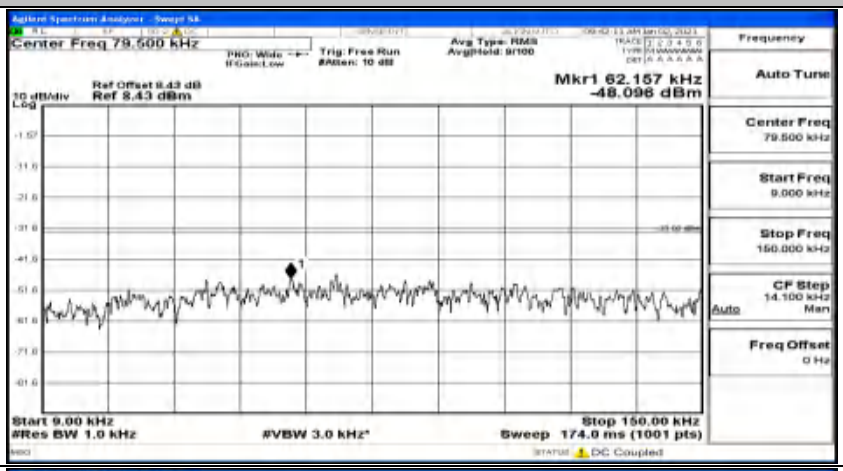
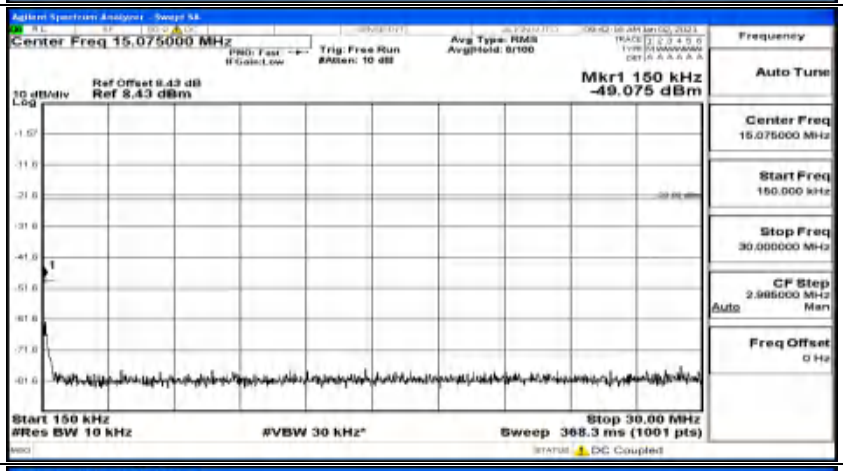

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



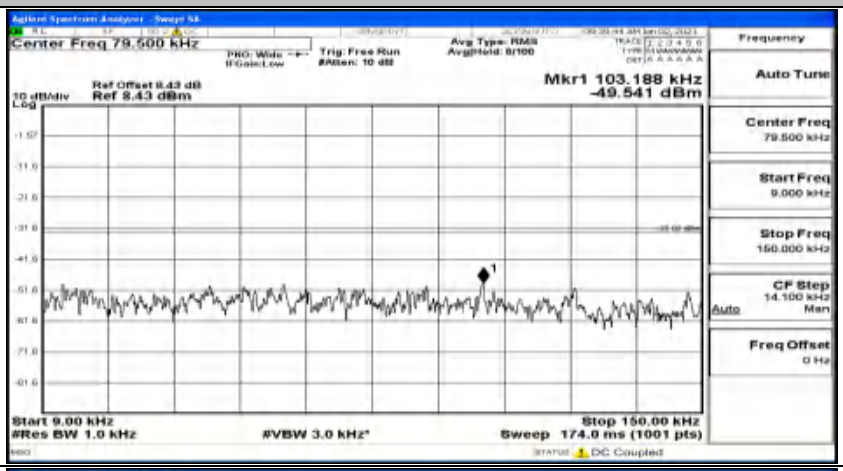
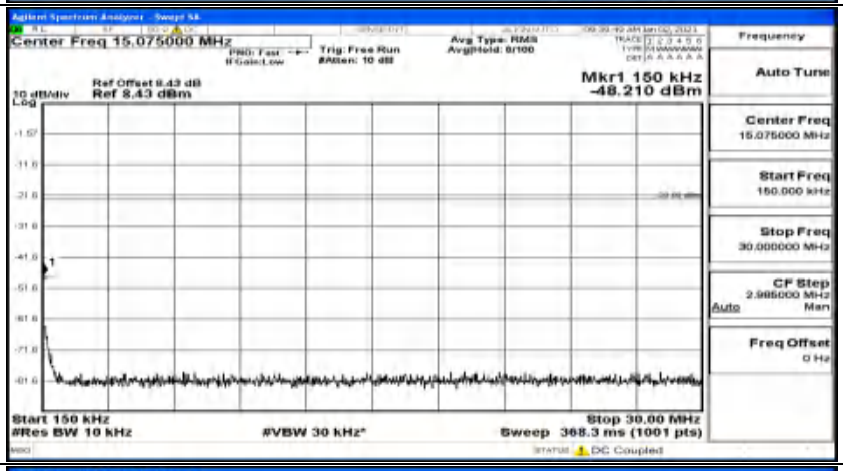

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24



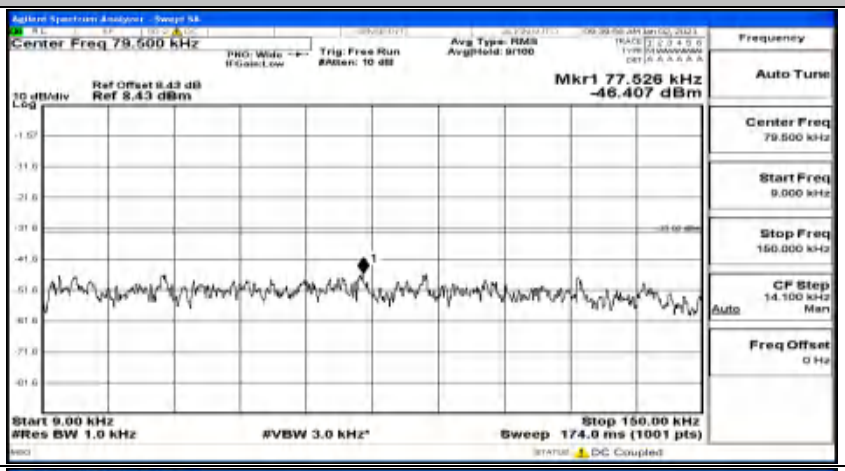
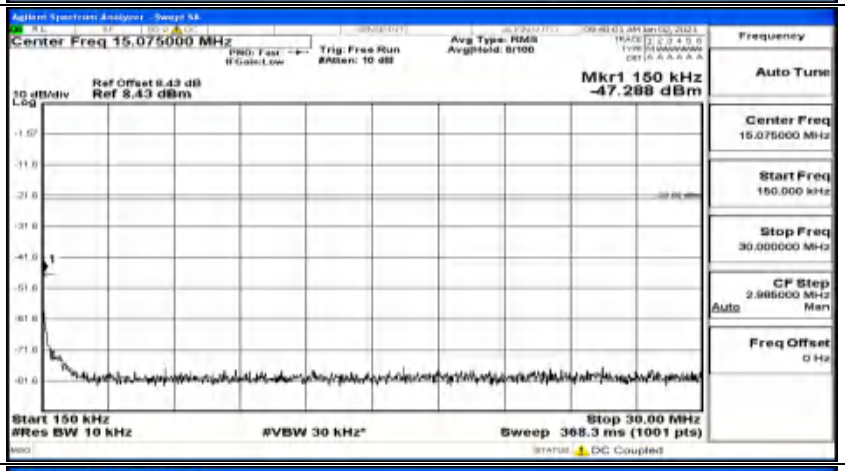
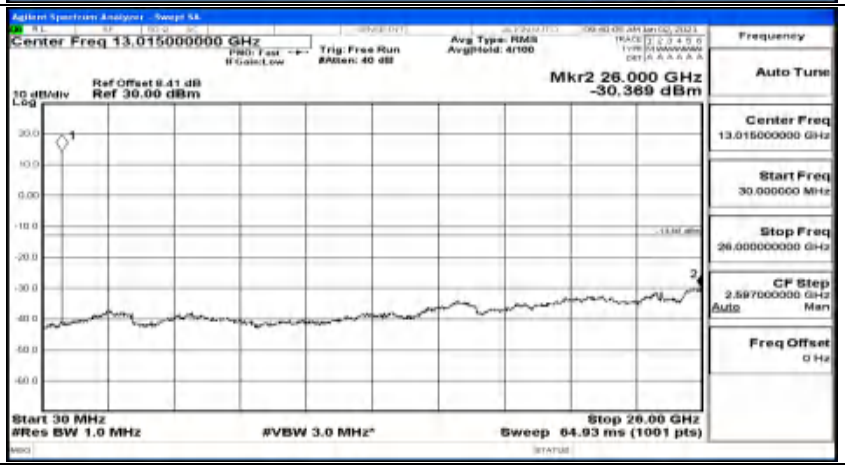

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



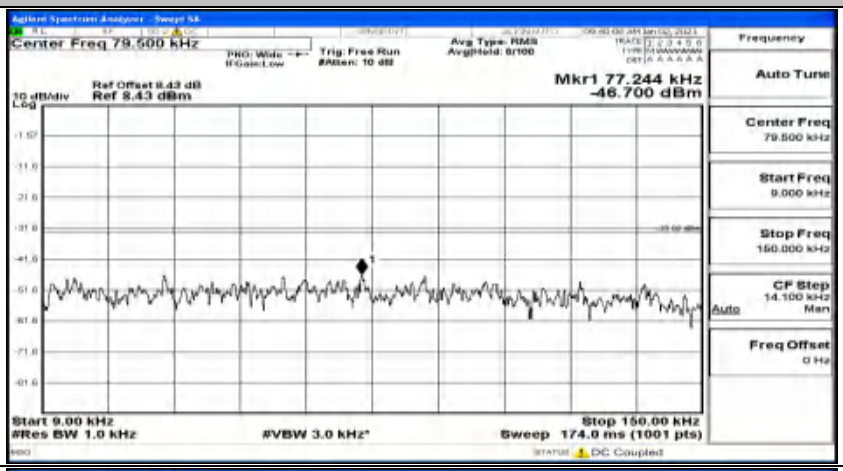
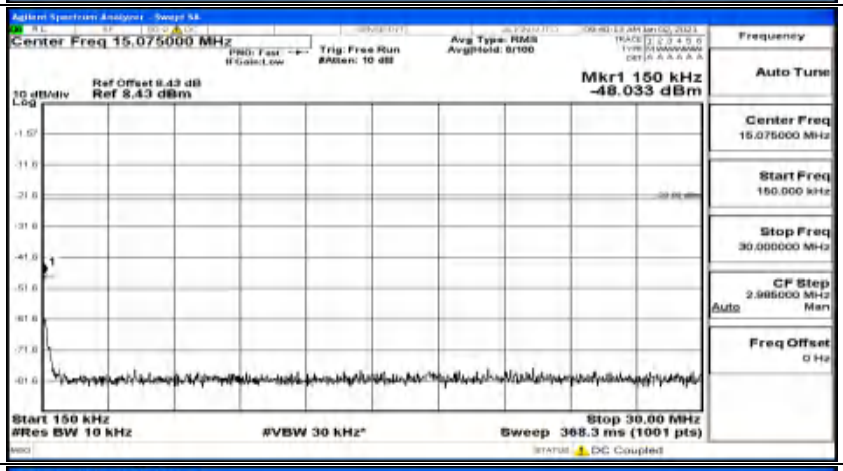

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



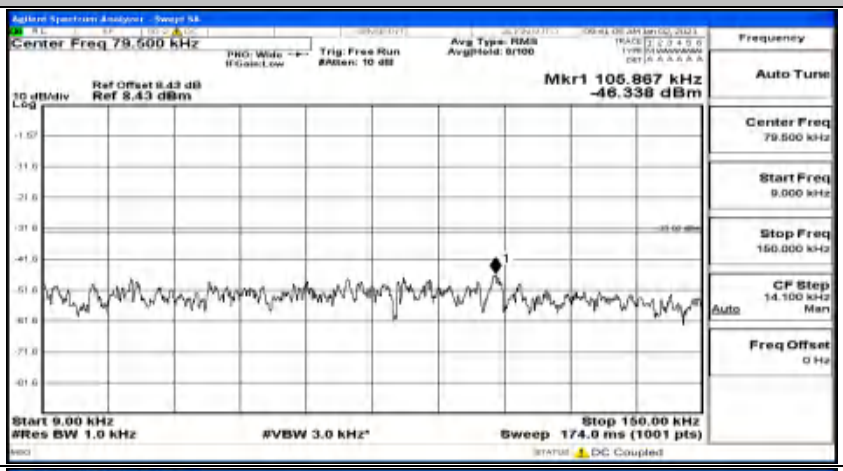
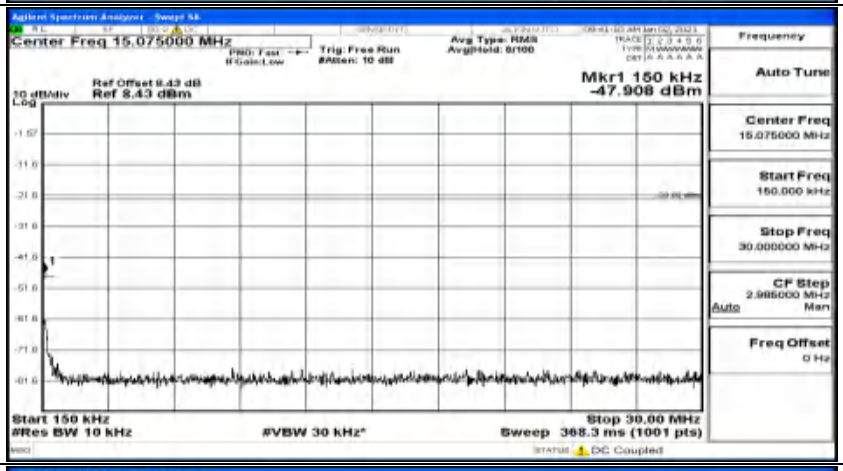

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



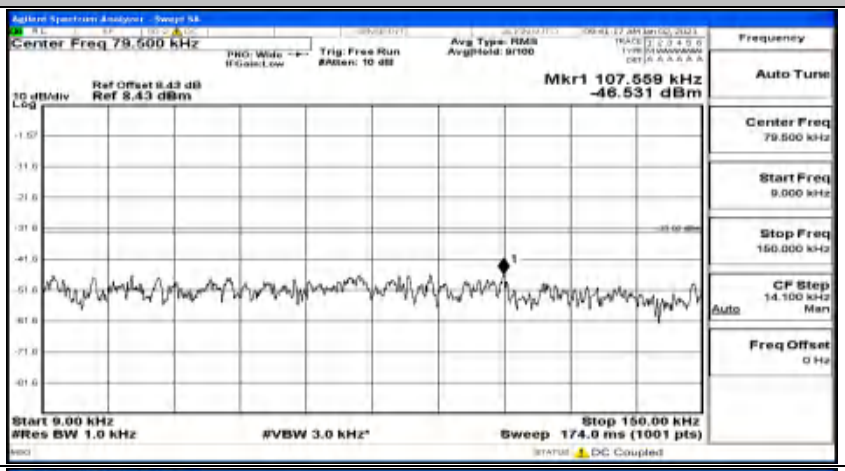
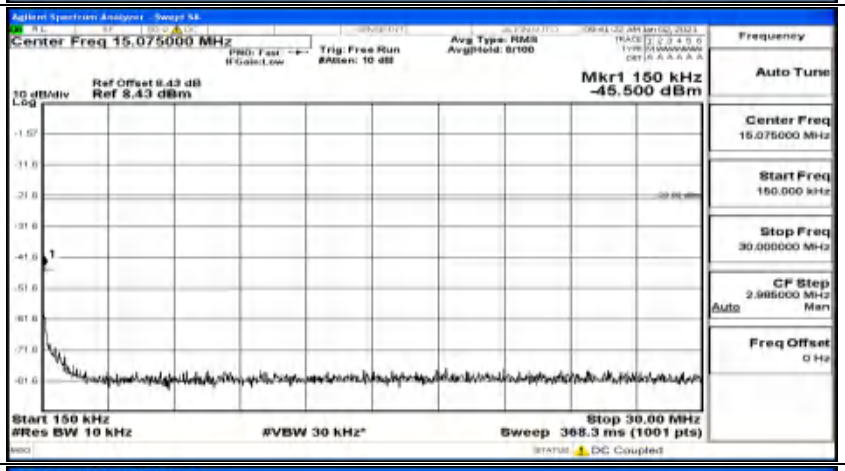
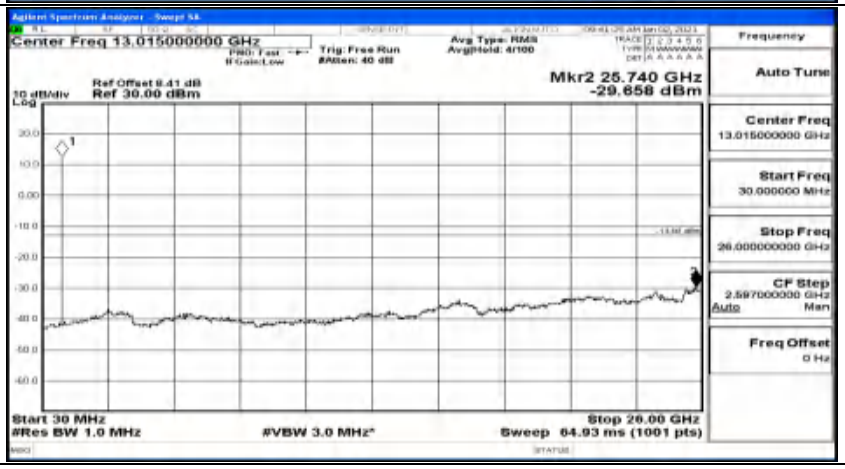

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



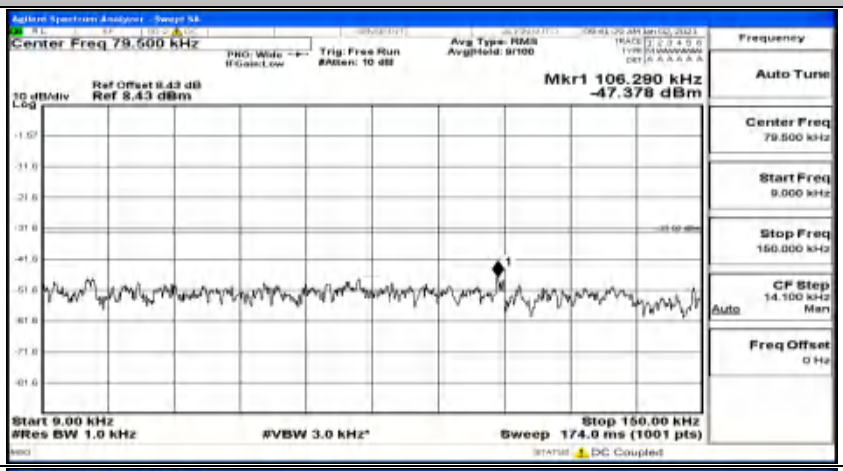
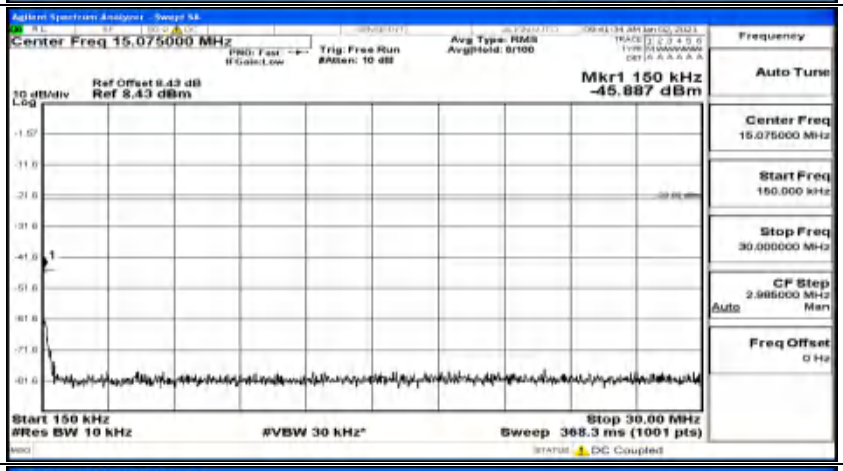

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



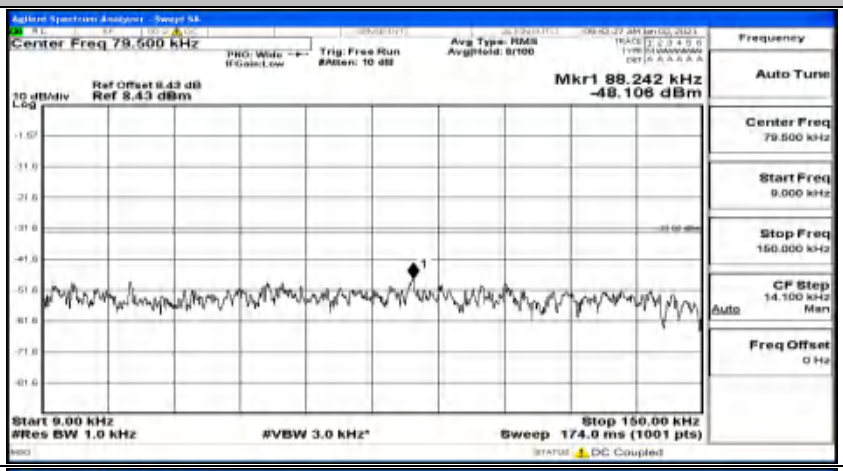
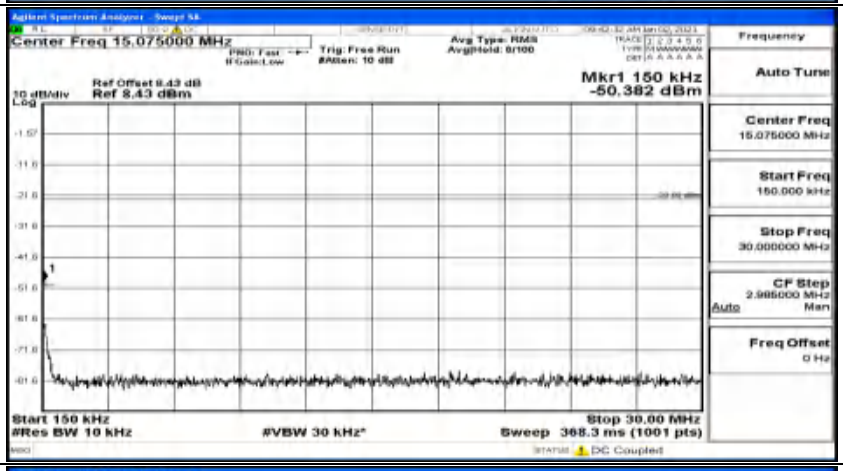

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24




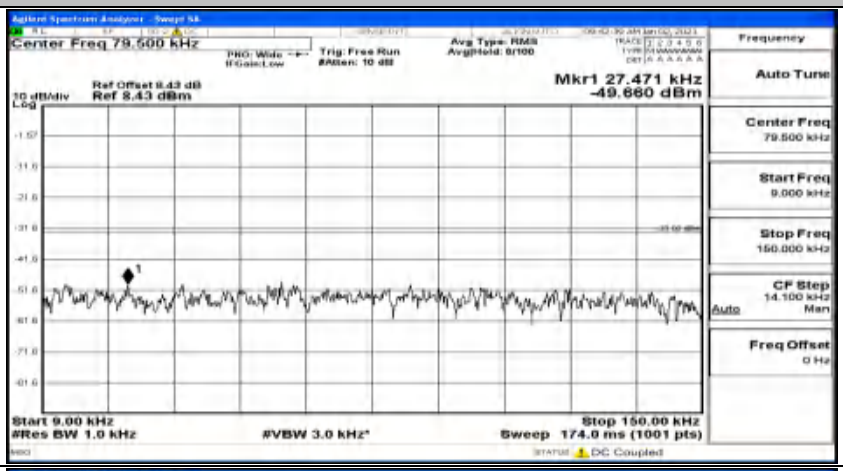
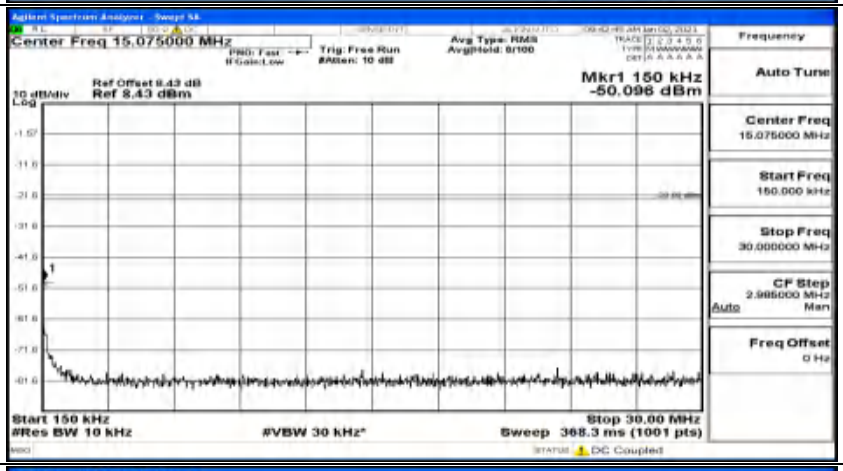
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49