

Appendix L: Test Data for E-UTRA Band 41

Product Name: MOBILE PHONE

Trade Mark: CELLUTION

Test Model: PADUA

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	LI HUAN

L.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.03	22.38	PASS
		1	12	24.09	23.47	PASS
		1	24	25.42	24.87	PASS
		12	0	23.41	22.59	PASS
		12	6	24.05	23.23	PASS
		12	13	24.89	24.07	PASS
		25	0	23.75	22.76	PASS
	MCH	1	0	22.95	22.34	PASS
		1	12	24.04	23.45	PASS
		1	24	25.40	24.84	PASS
		12	0	23.39	22.57	PASS
		12	6	24.03	23.21	PASS
		12	13	24.87	24.06	PASS
		25	0	23.73	22.83	PASS
	HCH	1	0	23.36	22.75	PASS
		1	12	24.45	23.85	PASS
		1	24	25.81	25.24	PASS
		12	0	23.81	22.99	PASS
		12	6	24.46	23.64	PASS
		12	13	25.29	24.49	PASS
		25	0	24.17	23.17	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.94	22.34	PASS
		1	24	25.34	24.86	PASS
		1	49	22.05	21.48	PASS
		25	0	23.66	22.66	PASS
		25	12	23.68	22.78	PASS
		25	25	23.34	22.36	PASS
		50	0	23.50	22.52	PASS
	MCH	1	0	22.96	22.36	PASS
		1	24	25.35	24.88	PASS
		1	49	22.08	21.54	PASS
		25	0	23.75	22.68	PASS
		25	12	23.68	22.73	PASS
		25	25	23.29	22.32	PASS
		50	0	23.52	22.58	PASS
	HCH	1	0	23.40	22.85	PASS
		1	24	25.77	25.38	PASS
		1	49	22.52	22.01	PASS
		25	0	24.17	23.09	PASS
		25	12	24.06	23.21	PASS
		25	25	23.77	22.78	PASS
		50	0	23.87	22.97	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.87	22.36	PASS
		1	37	22.78	22.25	PASS
		1	74	22.47	21.79	PASS
		37	0	21.88	20.80	PASS
		37	18	21.73	20.76	PASS
		37	38	21.57	20.49	PASS
		75	0	21.65	20.76	PASS
	MCH	1	0	23.18	22.40	PASS
		1	37	23.10	22.18	PASS
		1	74	22.50	21.66	PASS
		37	0	22.17	21.14	PASS
		37	18	22.08	20.95	PASS
		37	38	21.91	20.67	PASS
		75	0	21.99	21.11	PASS
	HCH	1	0	24.02	22.47	PASS
		1	37	24.43	22.73	PASS
		1	74	23.74	22.22	PASS
		37	0	23.09	22.23	PASS
		37	18	23.07	22.22	PASS
		37	38	22.95	22.04	PASS
		75	0	23.02	22.18	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.63	21.70	PASS
		1	49	22.58	21.60	PASS
		1	99	22.41	21.22	PASS
		50	0	21.82	20.83	PASS
		50	25	21.73	20.75	PASS
		50	50	21.65	20.65	PASS
		100	0	21.82	20.85	PASS
	MCH	1	0	23.68	22.64	PASS
		1	49	23.52	22.44	PASS
		1	99	22.73	21.73	PASS
		50	0	22.25	21.25	PASS
		50	25	22.15	21.15	PASS
		50	50	21.84	20.84	PASS
		100	0	22.04	21.09	PASS
	HCH	1	0	23.88	21.93	PASS
		1	49	24.25	22.33	PASS
		1	99	23.30	21.69	PASS
		50	0	23.06	22.13	PASS
		50	25	23.03	21.95	PASS
		50	50	23.02	21.85	PASS
		100	0	23.12	22.17	PASS

L.2 Peak-to-Average Ratio

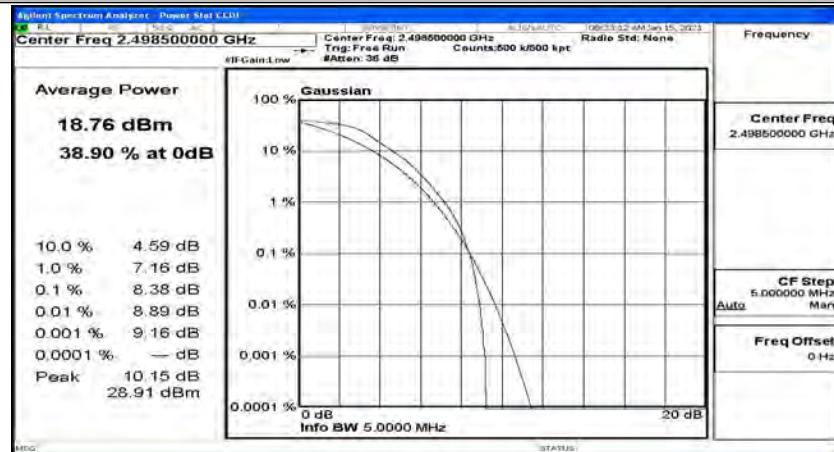
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.38	<13	PASS
	MCH	9.44	<13	PASS
	HCH	9.59	<13	PASS
16QAM	LCH	9.87	<13	PASS
	MCH	9.51	<13	PASS
	HCH	11.04	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	9.64	<13	PASS
	MCH	8.85	<13	PASS
	HCH	8.72	<13	PASS
16QAM	LCH	8.68	<13	PASS
	MCH	11.88	<13	PASS
	HCH	8.79	<13	PASS

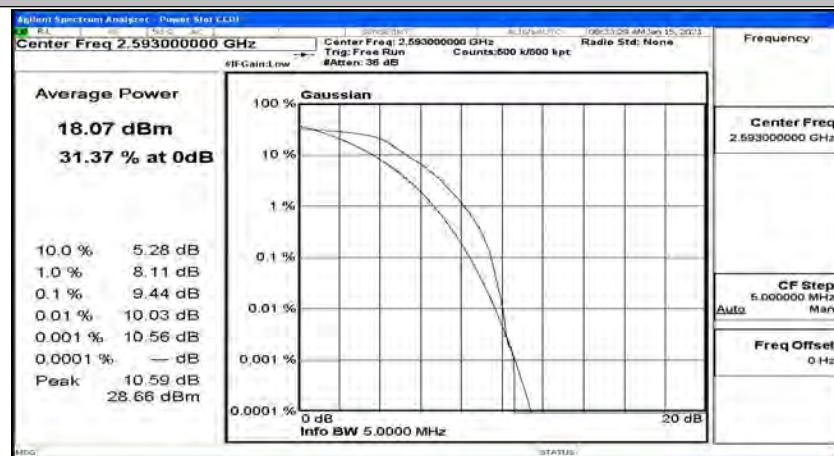
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	9.88	<13	PASS
	MCH	7.84	<13	PASS
	HCH	8.87	<13	PASS
16QAM	LCH	10.34	<13	PASS
	MCH	11.17	<13	PASS
	HCH	9.83	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	8.92	<13	PASS
	MCH	9.34	<13	PASS
	HCH	8.39	<13	PASS
16QAM	LCH	9.69	<13	PASS
	MCH	10.57	<13	PASS
	HCH	10.82	<13	PASS

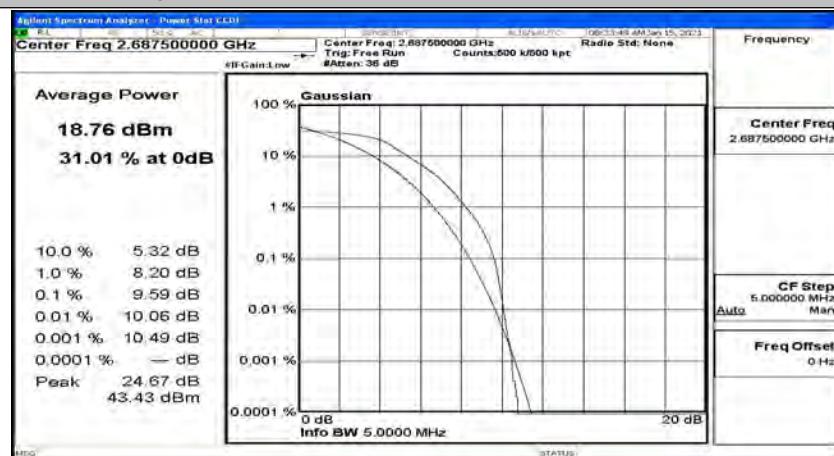
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



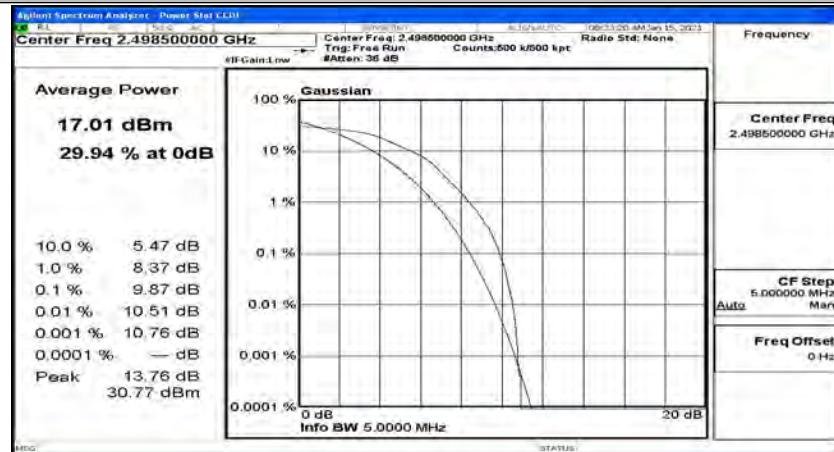
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



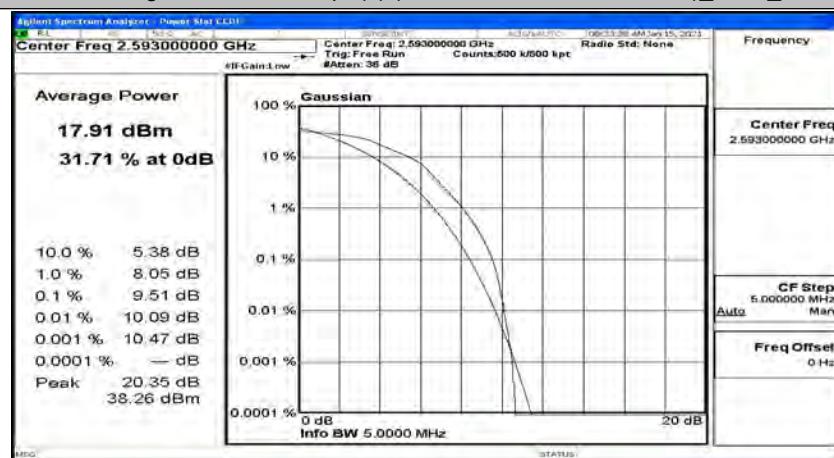
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



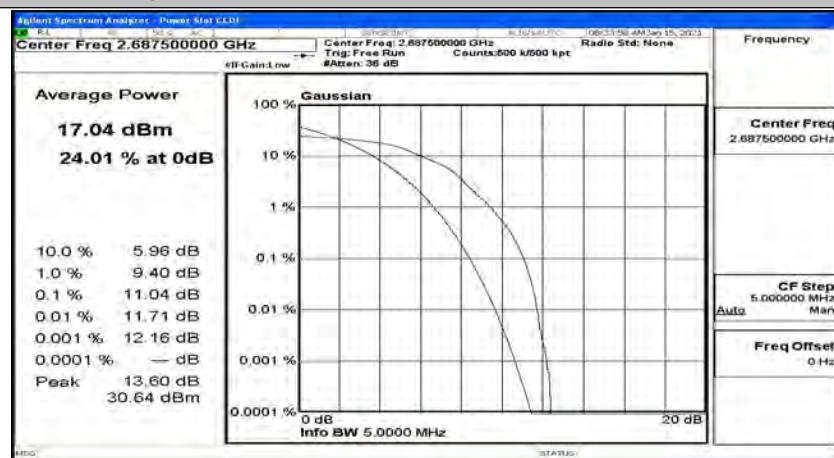
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



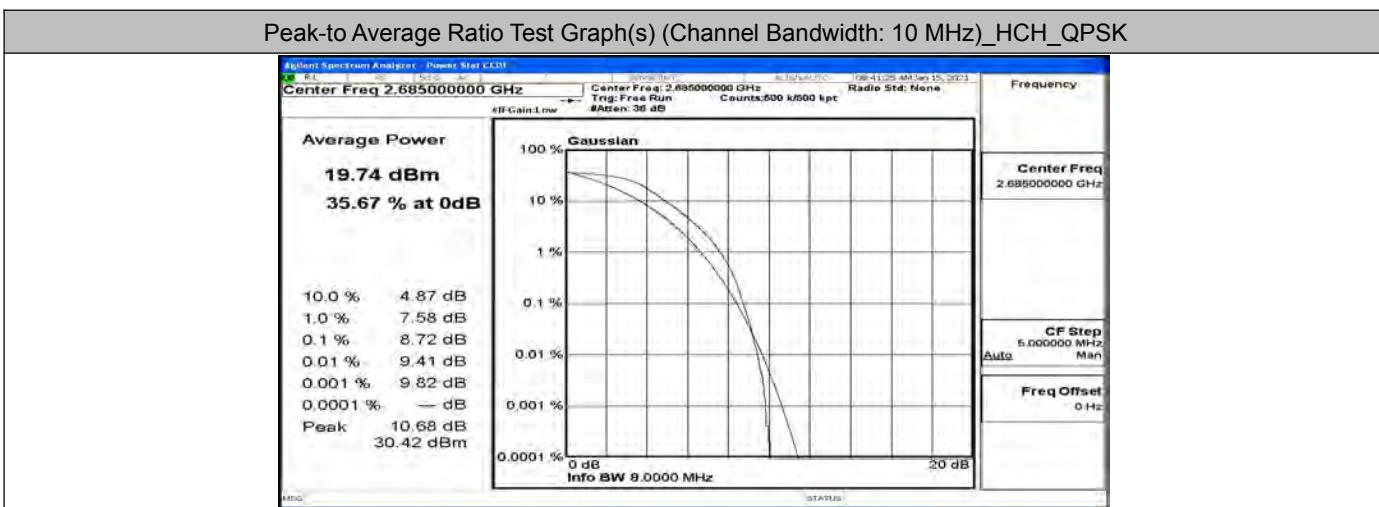
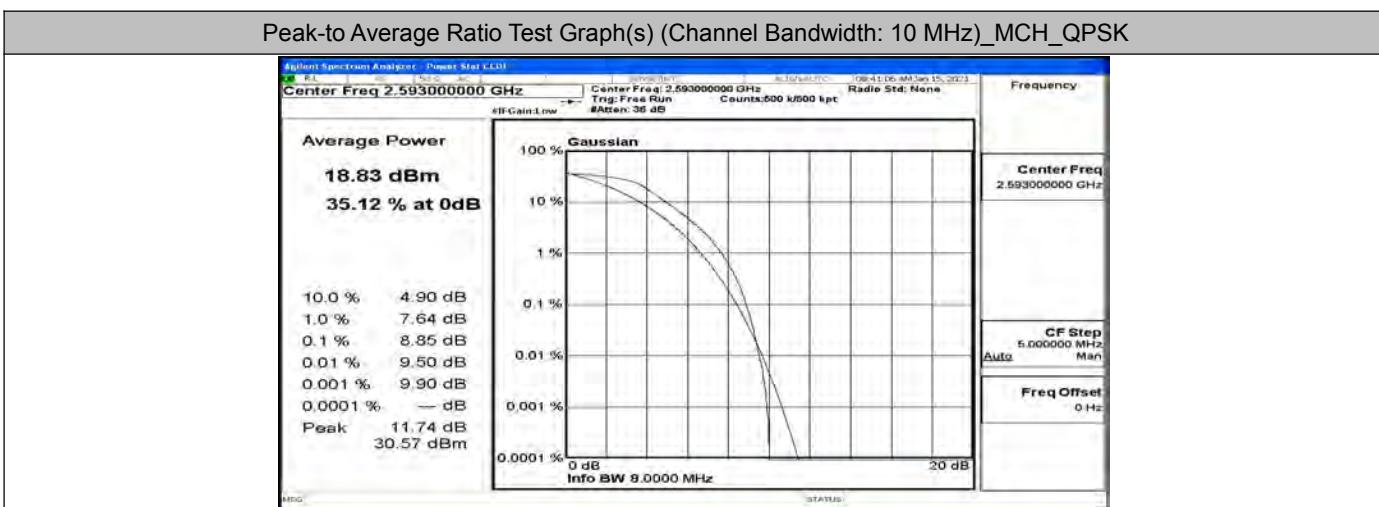
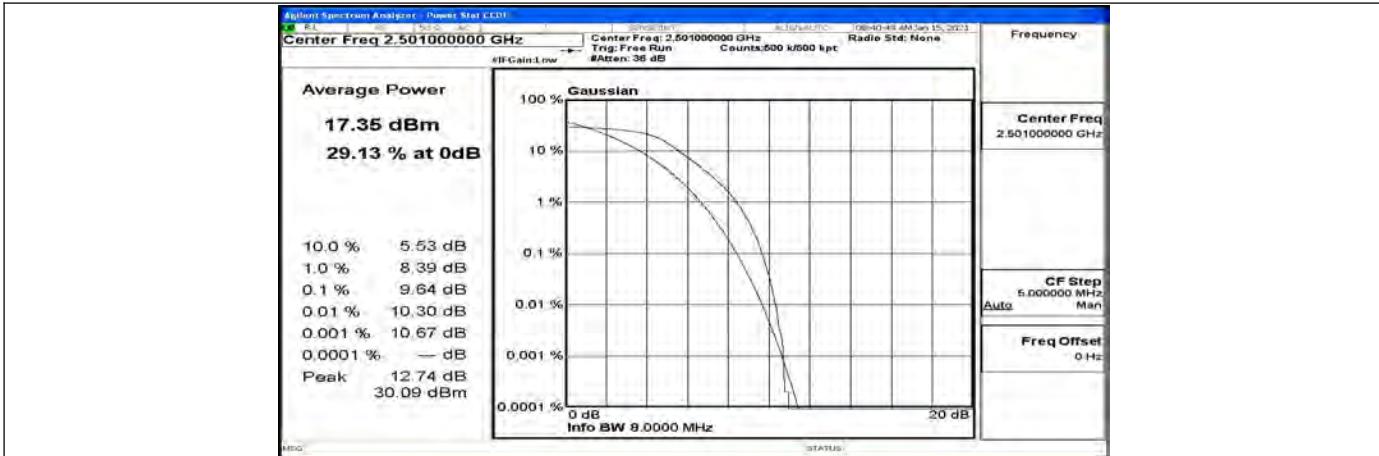
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



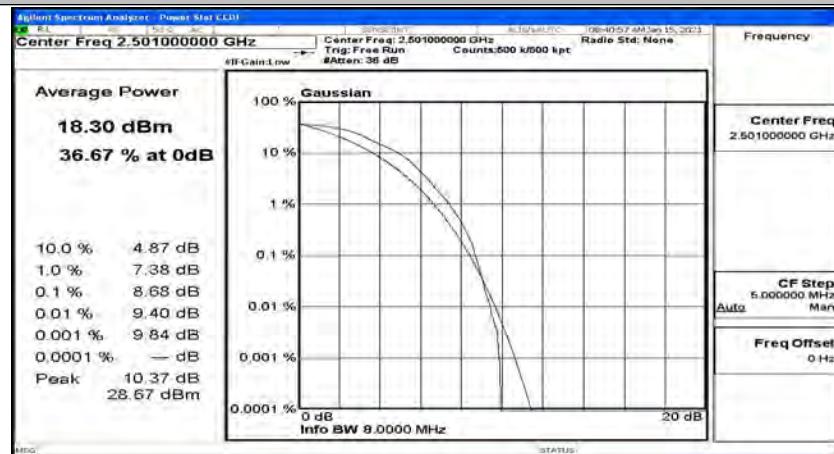
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



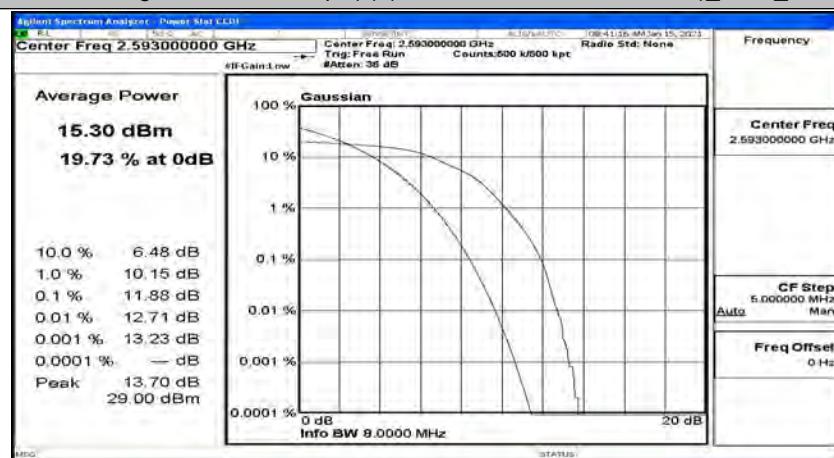
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



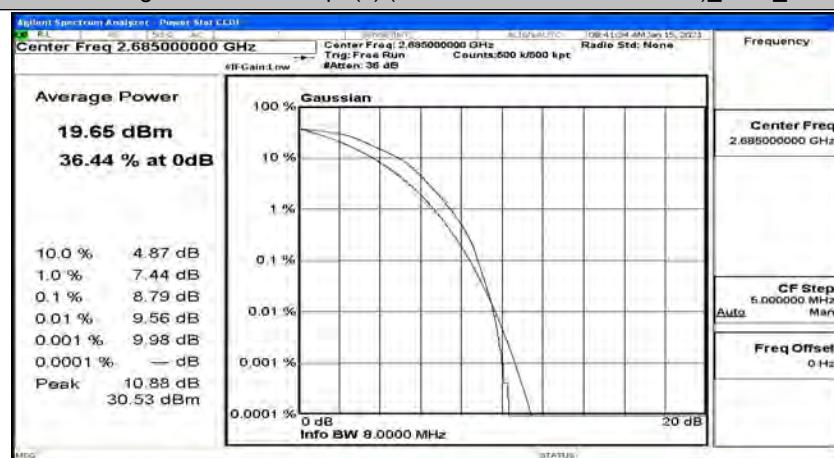
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



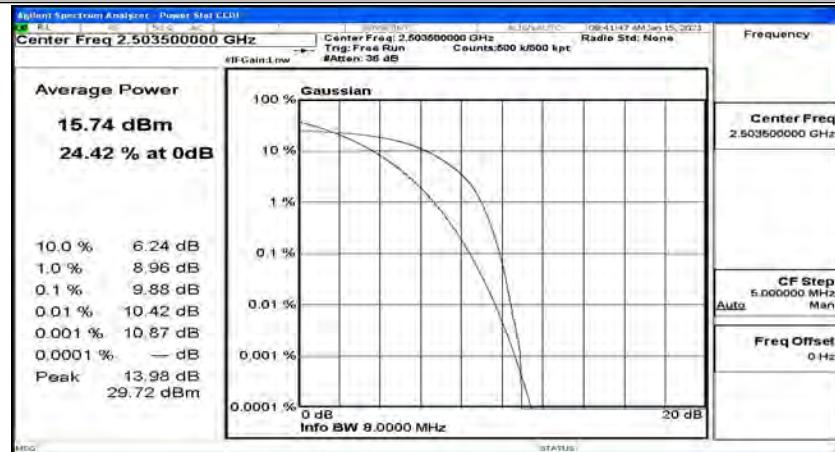
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



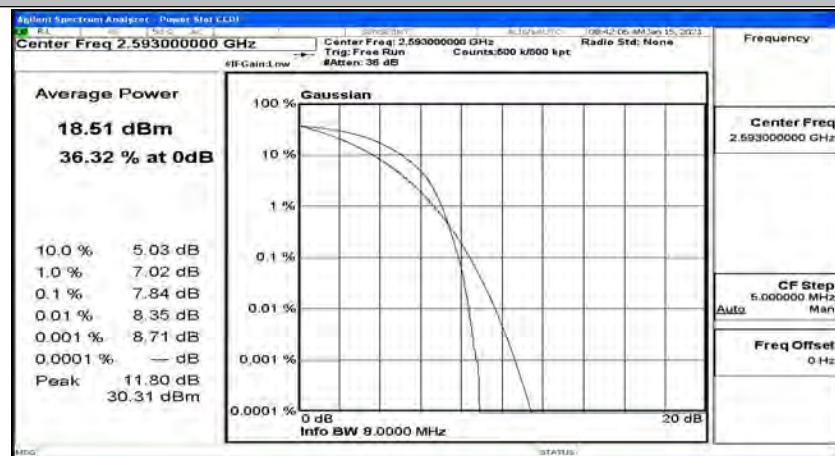
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



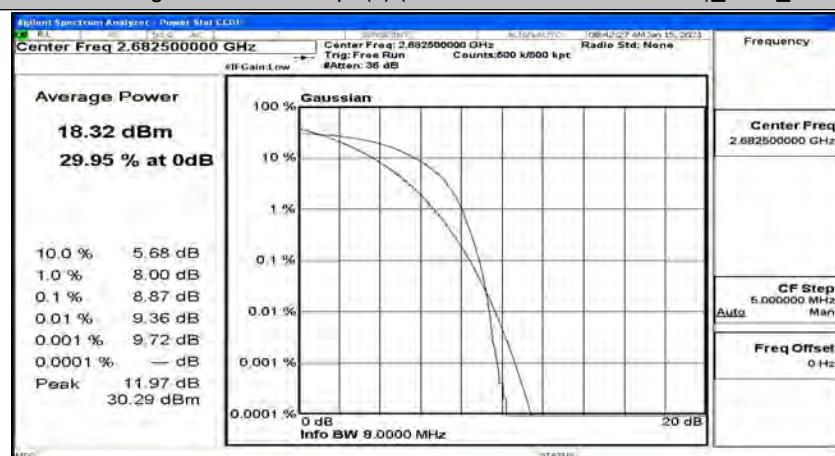
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



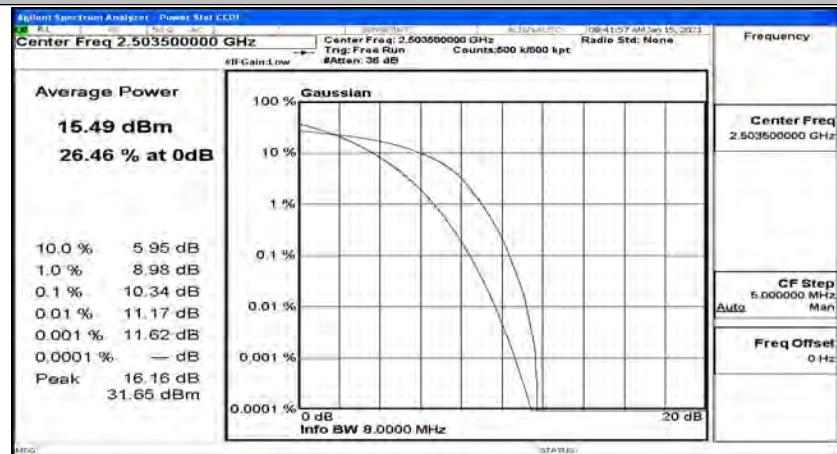
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



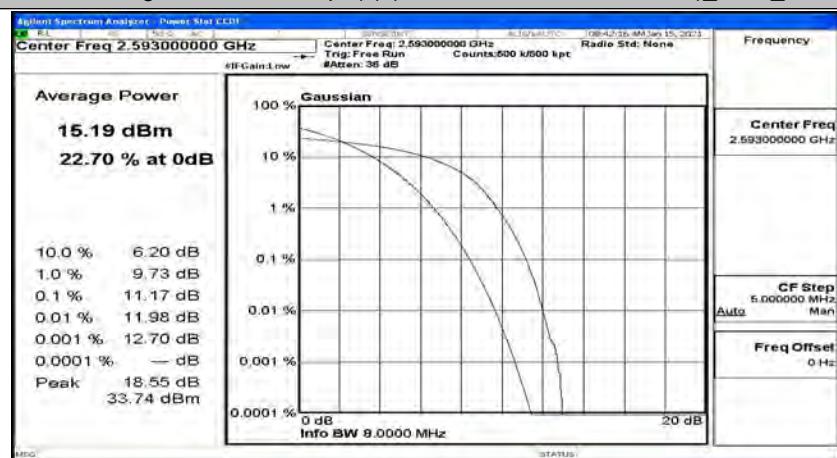
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



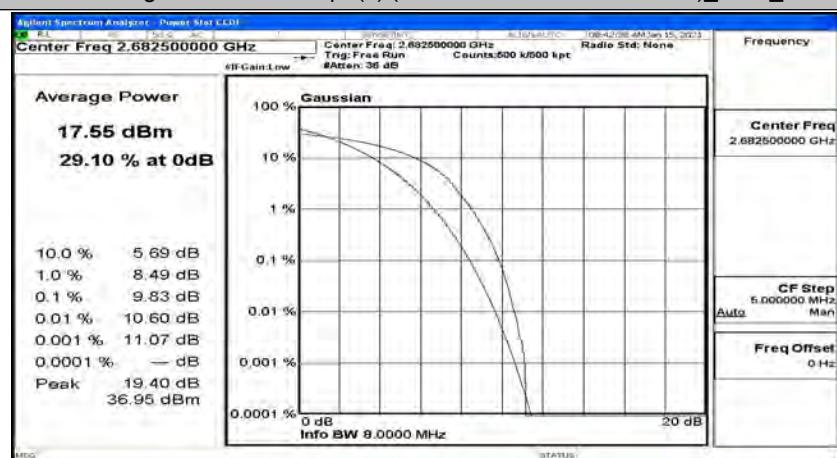
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



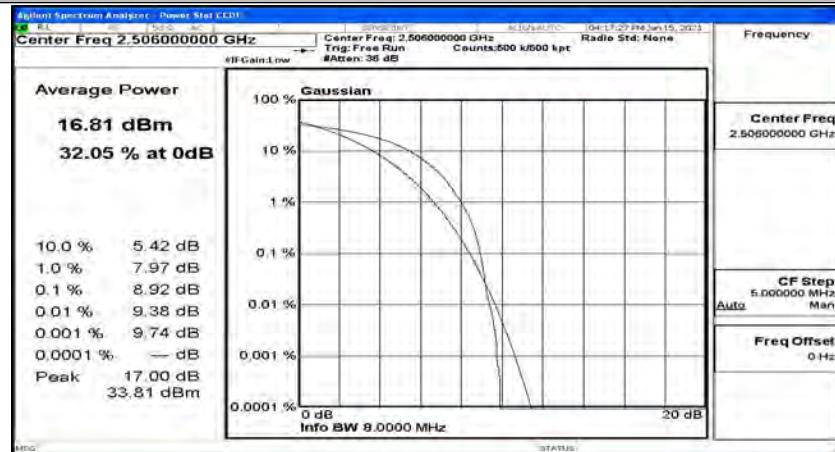
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



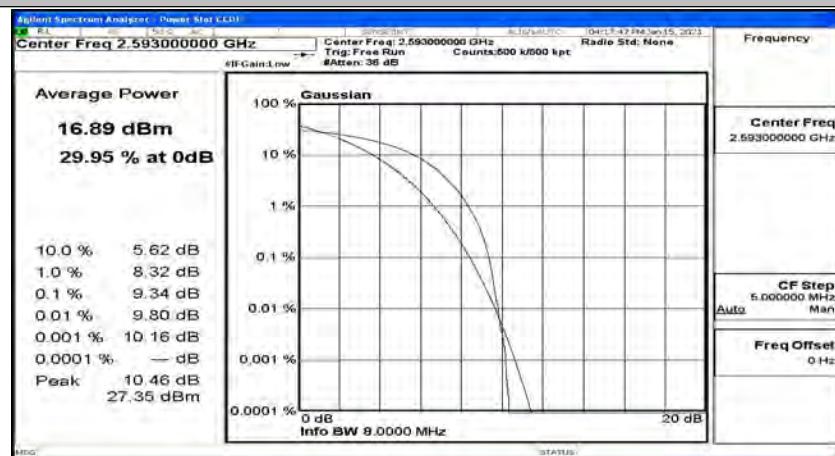
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



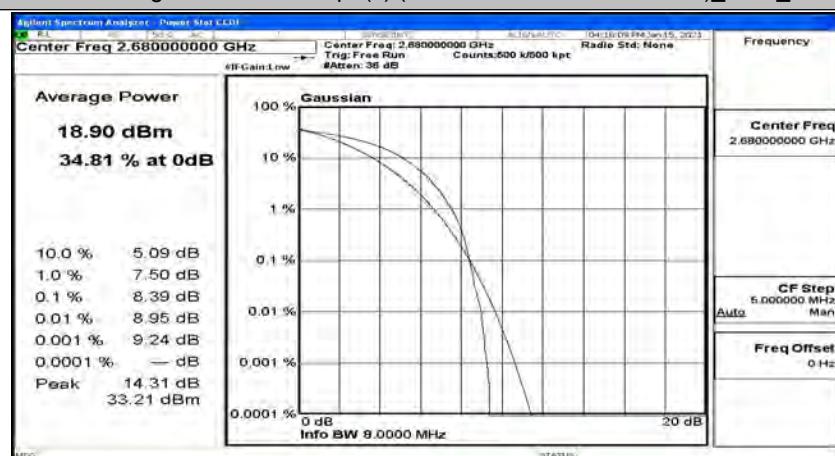
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



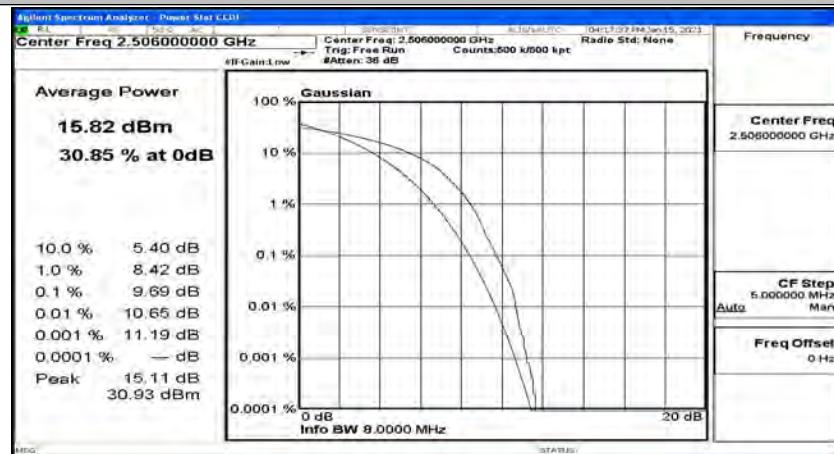
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



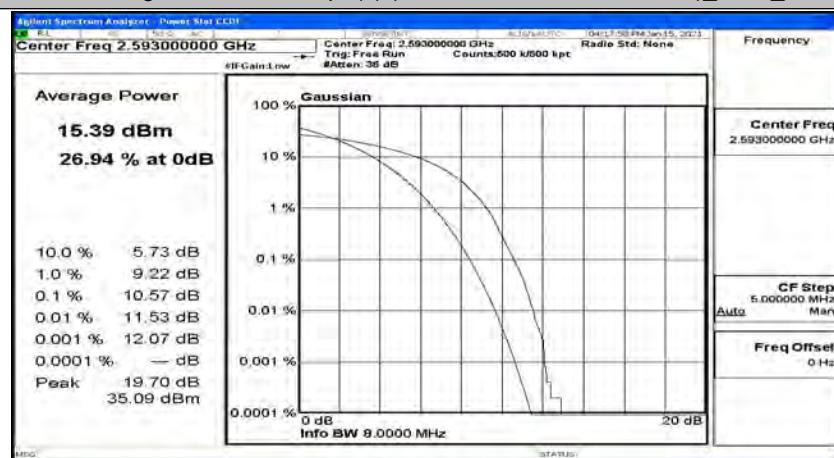
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



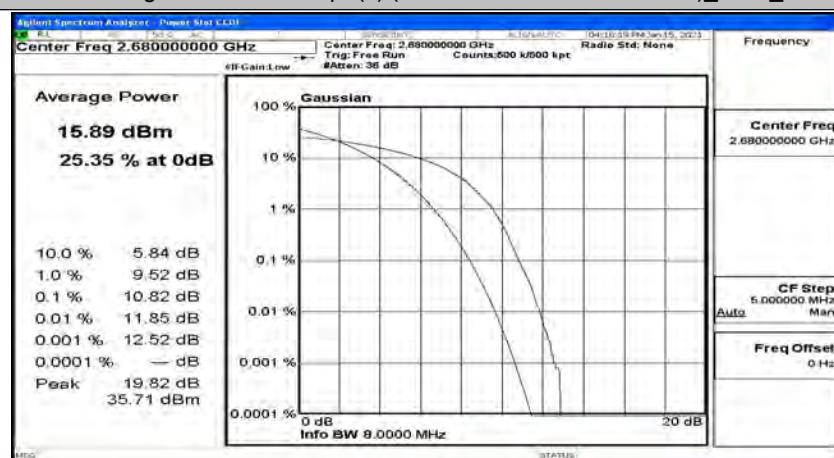
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



L.3 26dB Bandwidth and Occupied Bandwidth

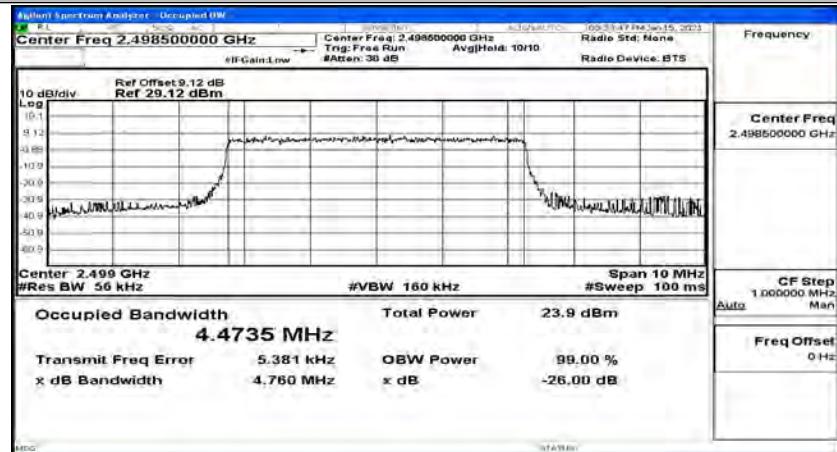
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4735	4.760	PASS
	MCH	4.4637	4.740	PASS
	HCH	4.4729	4.848	PASS
16QAM	LCH	4.4676	4.797	PASS
	MCH	4.4607	4.733	PASS
	HCH	4.4664	4.771	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9082	9.325	PASS
	MCH	8.9208	9.456	PASS
	HCH	8.9069	9.366	PASS
16QAM	LCH	8.9157	9.332	PASS
	MCH	8.9198	9.379	PASS
	HCH	8.9044	9.377	PASS

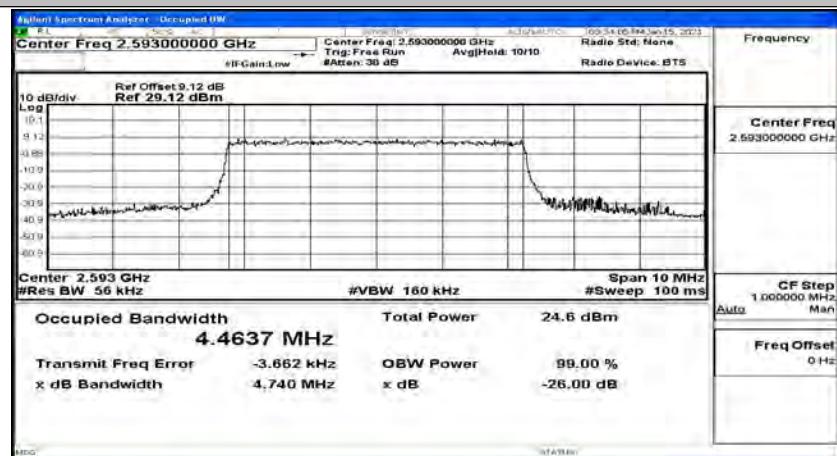
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.374	14.02	PASS
	MCH	13.370	13.95	PASS
	HCH	13.441	13.96	PASS
16QAM	LCH	13.374	13.94	PASS
	MCH	13.367	14.07	PASS
	HCH	13.373	13.99	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.825	18.53	PASS
	MCH	17.812	18.48	PASS
	HCH	17.820	18.54	PASS
16QAM	LCH	17.823	18.57	PASS
	MCH	17.787	18.51	PASS
	HCH	17.777	18.55	PASS

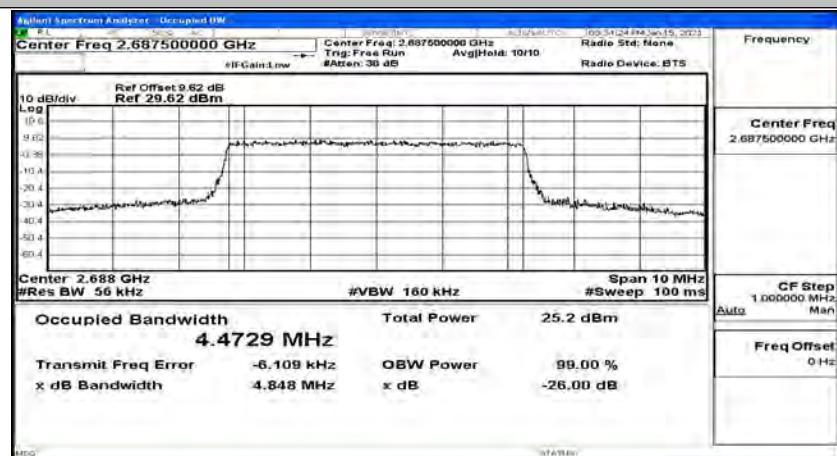
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



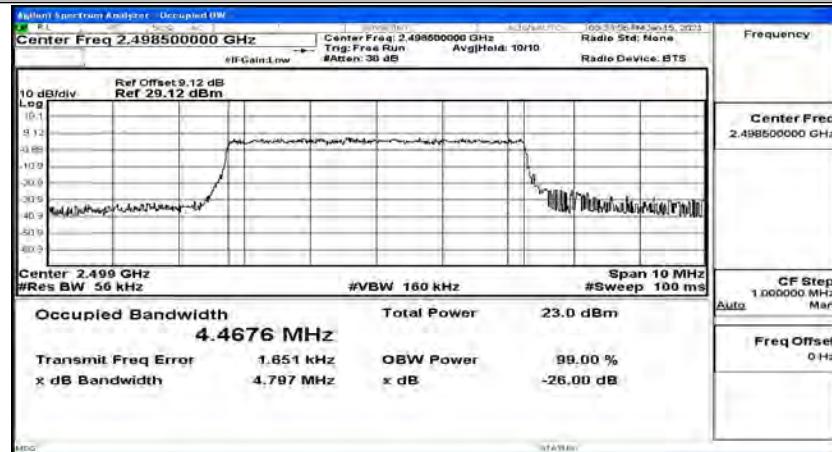
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



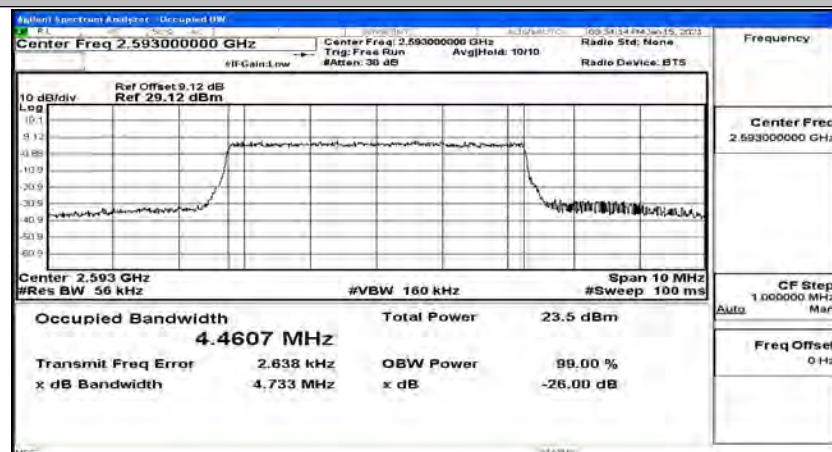
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



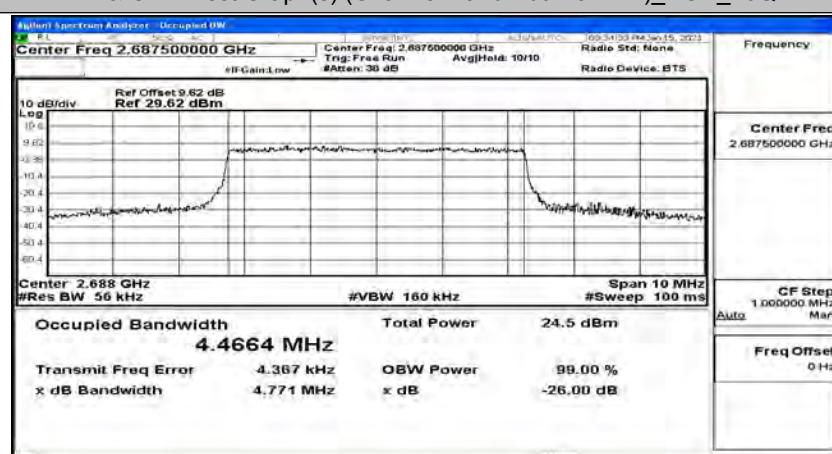
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



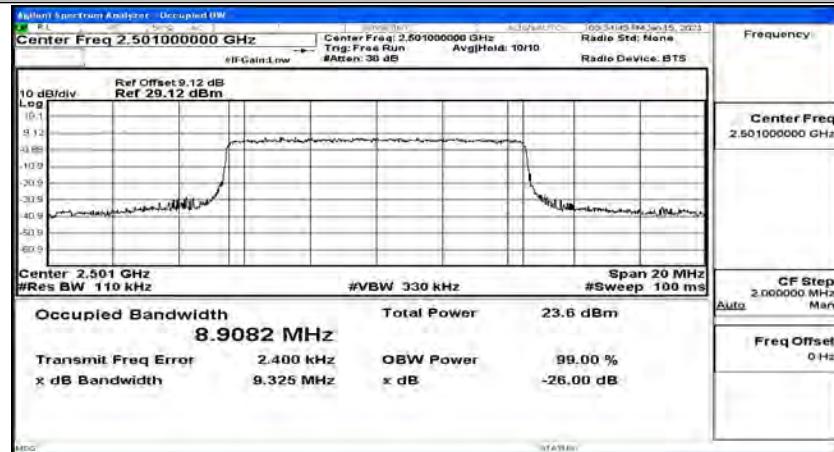
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



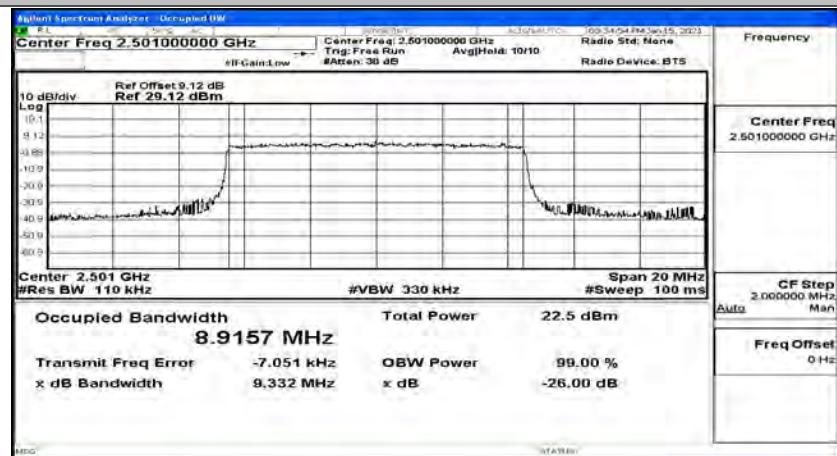
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



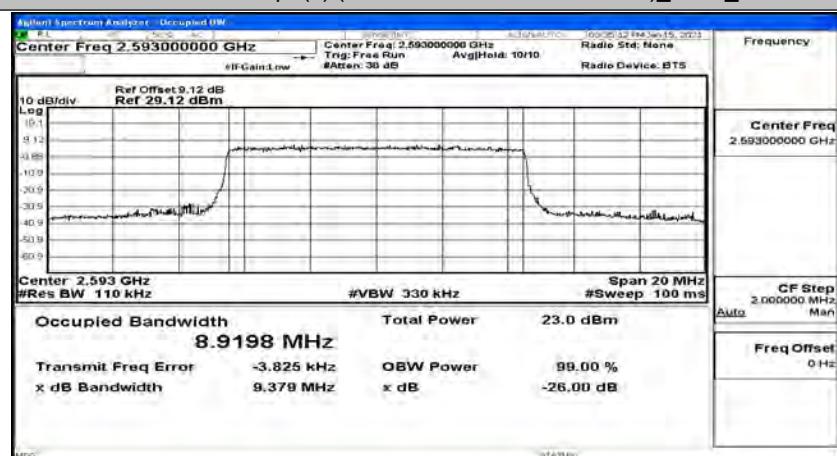
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



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



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



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



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



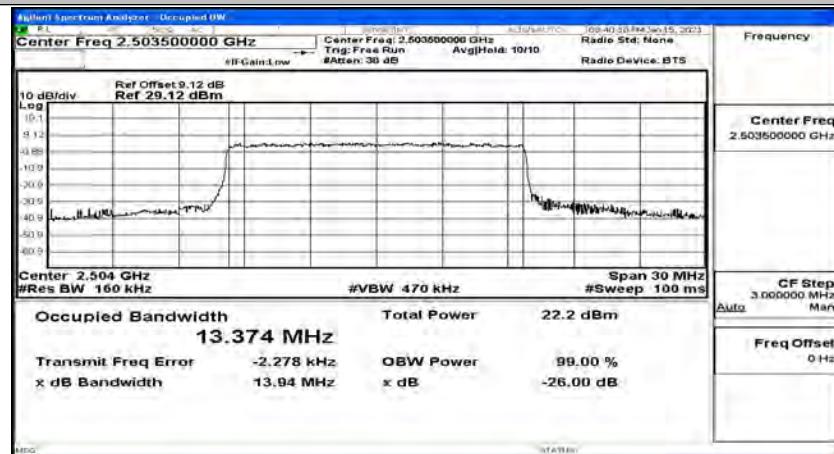
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



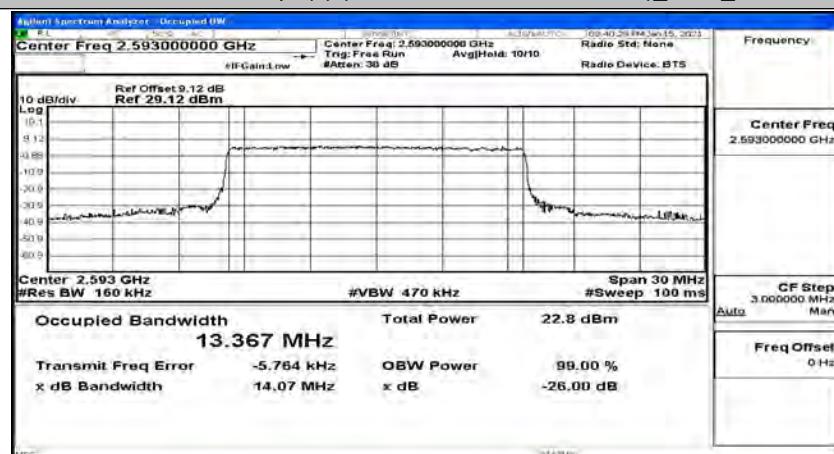
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



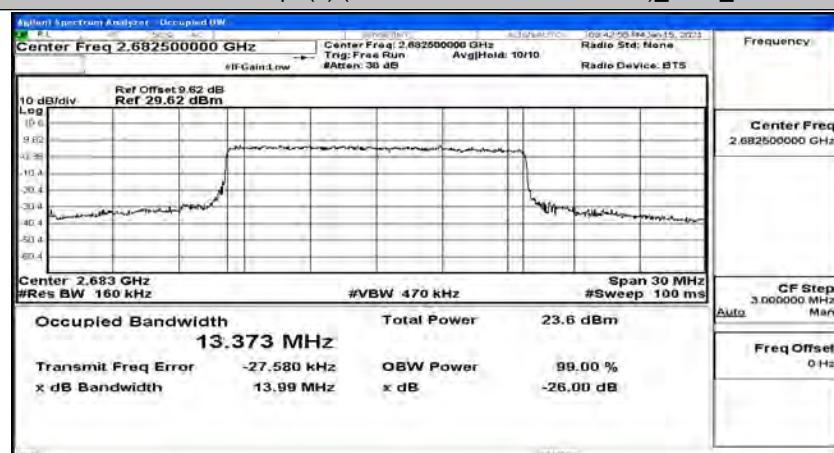
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



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



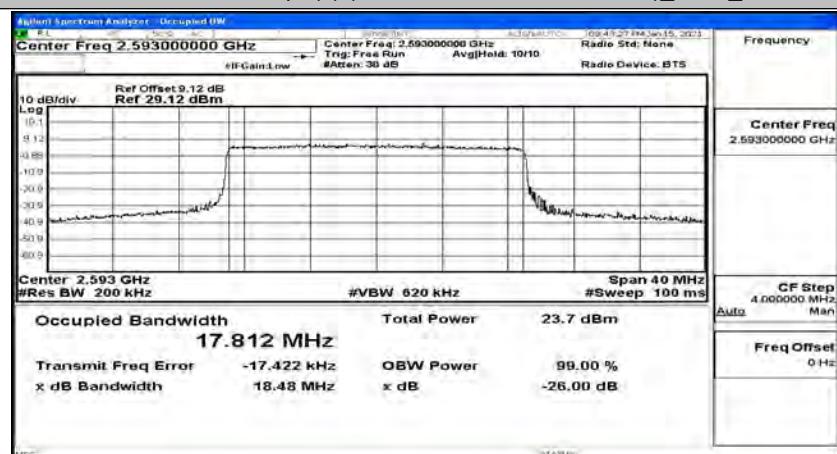
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



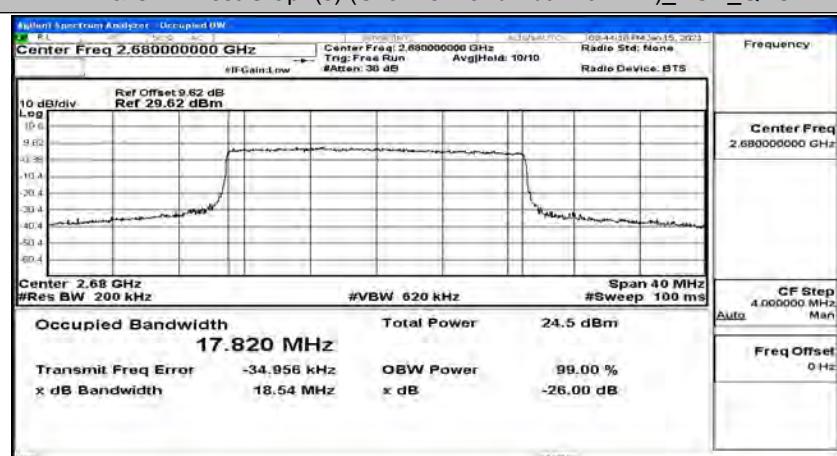
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



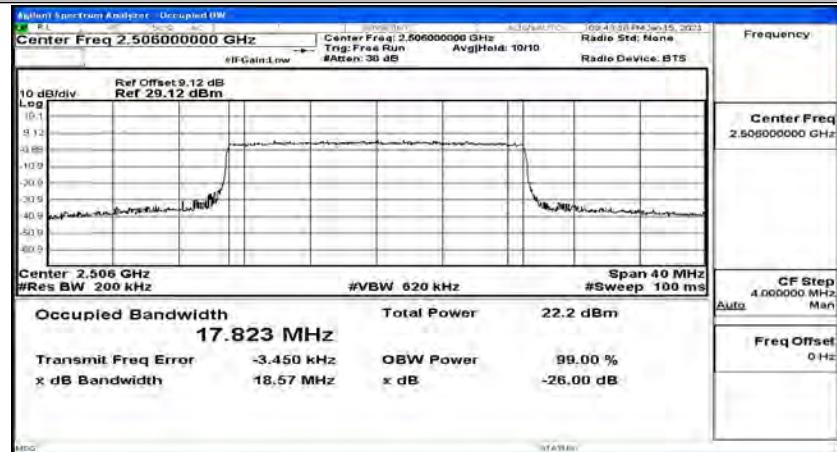
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



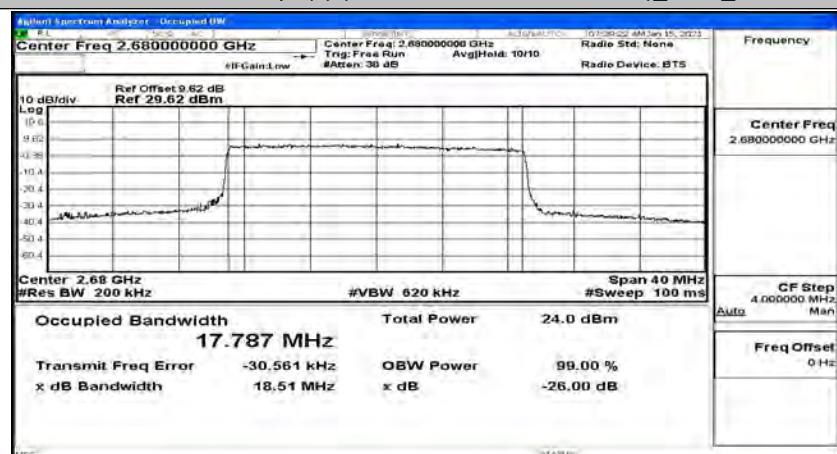
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



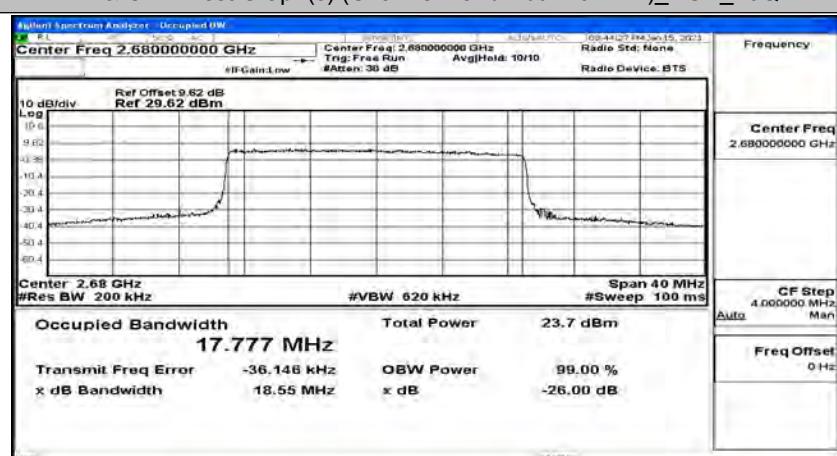
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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

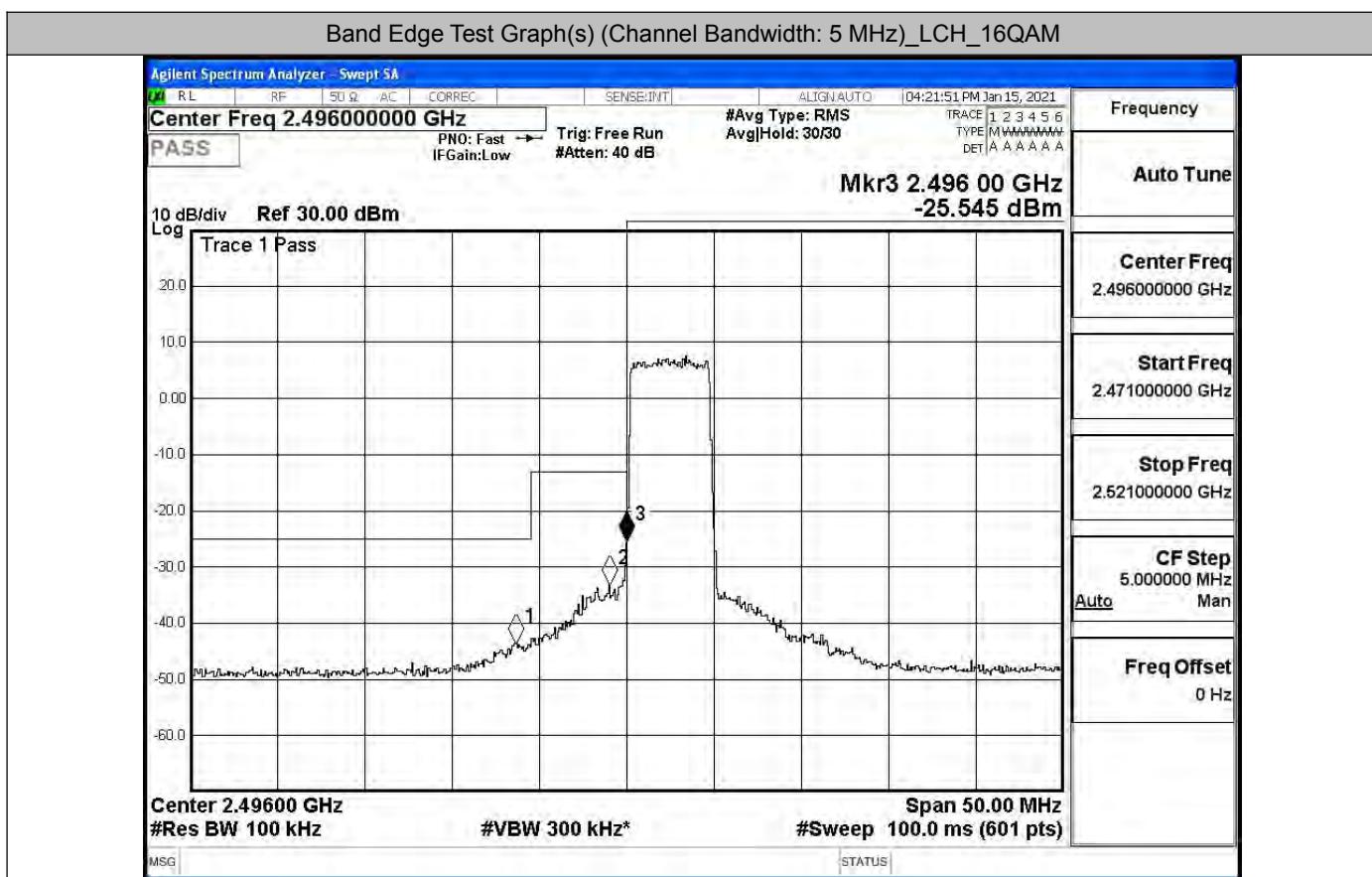
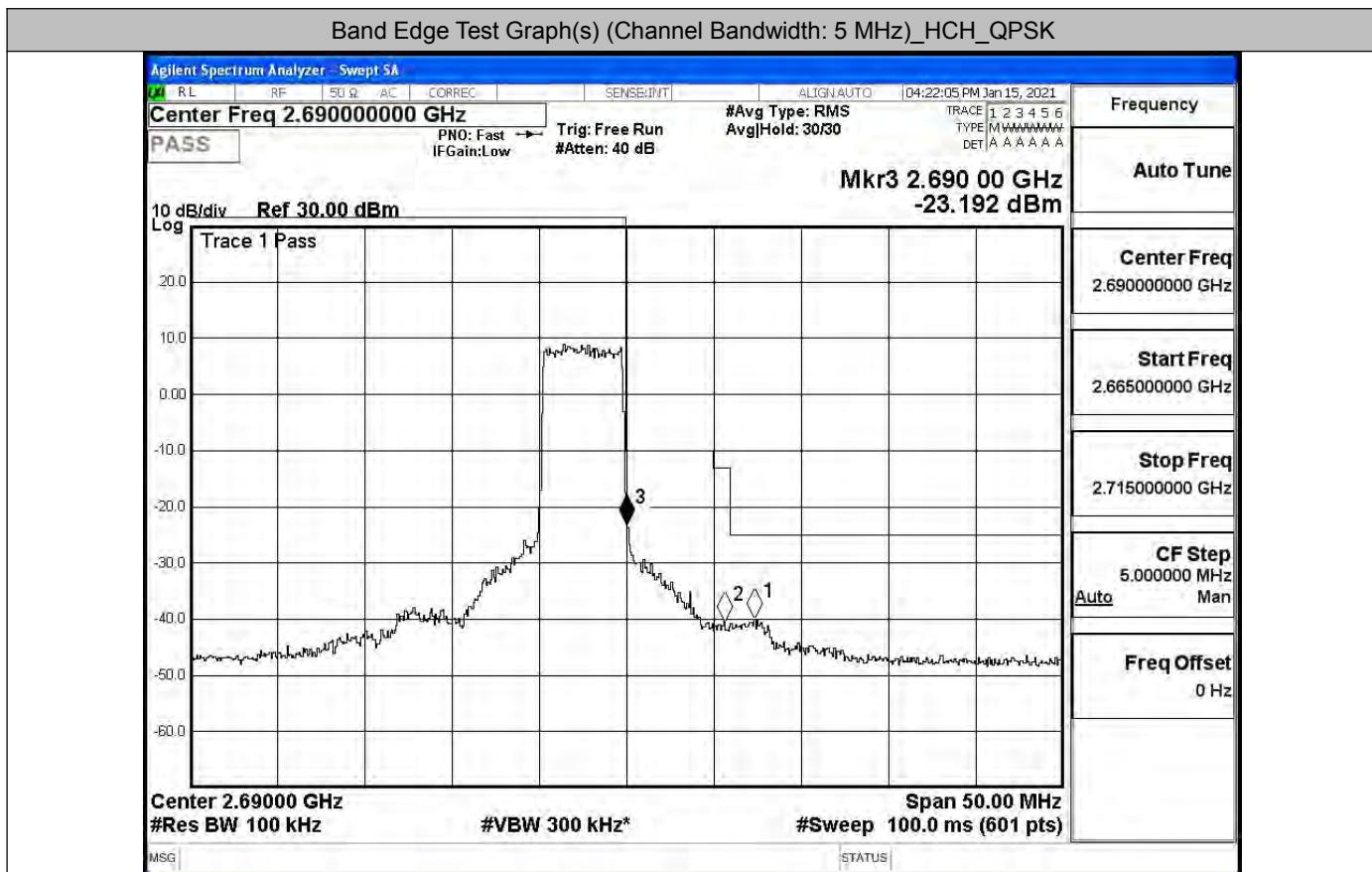


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz) HCH 16QAM

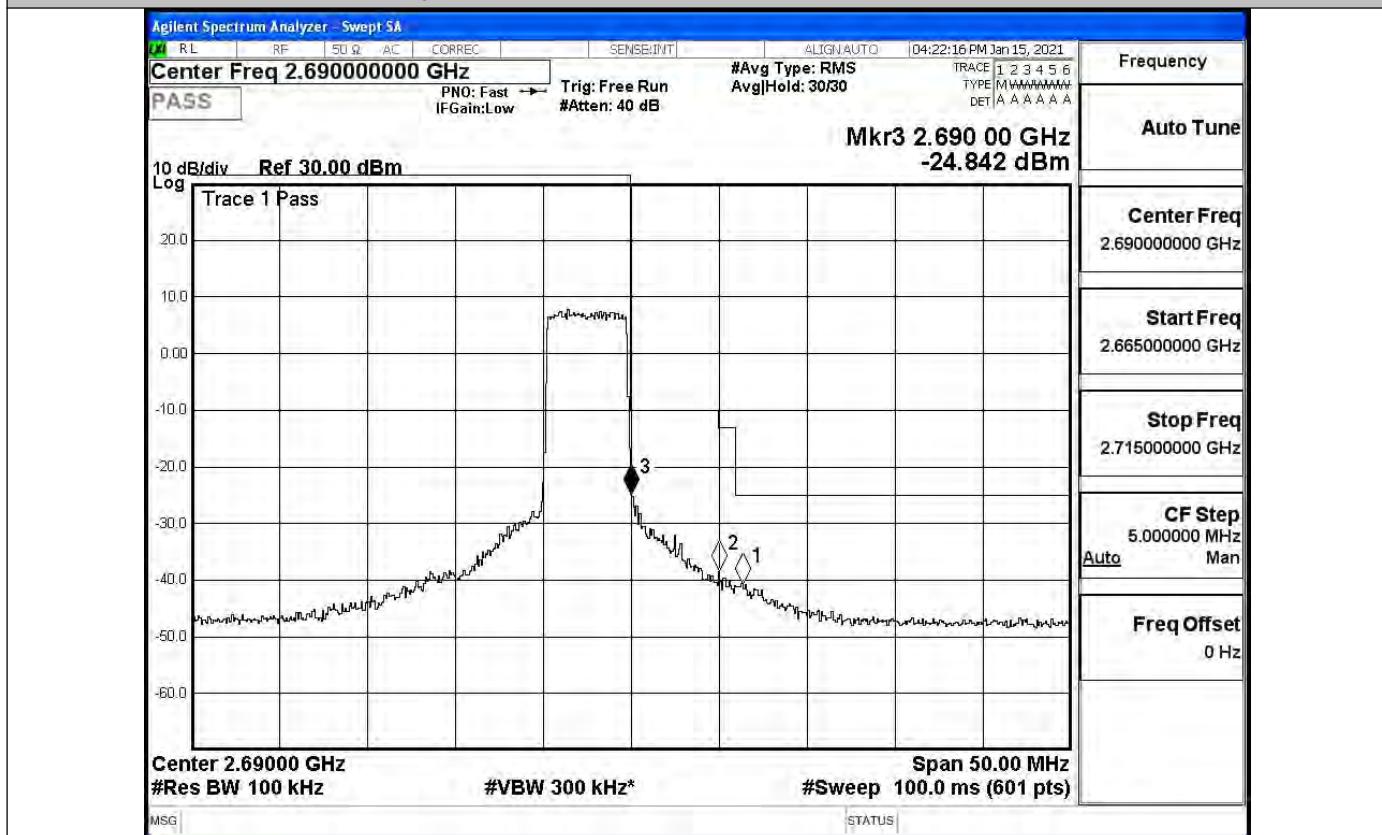


L.4 Band Edge

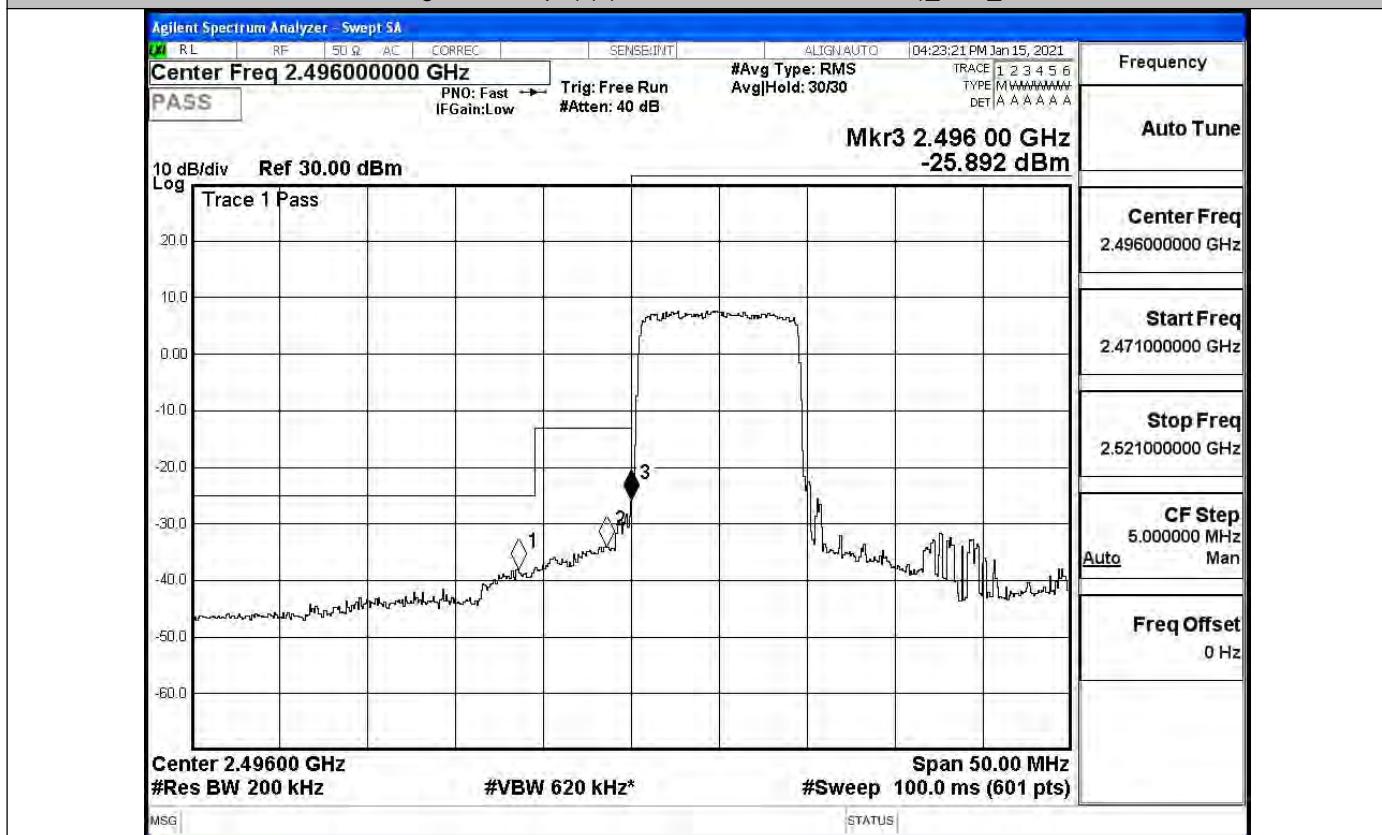


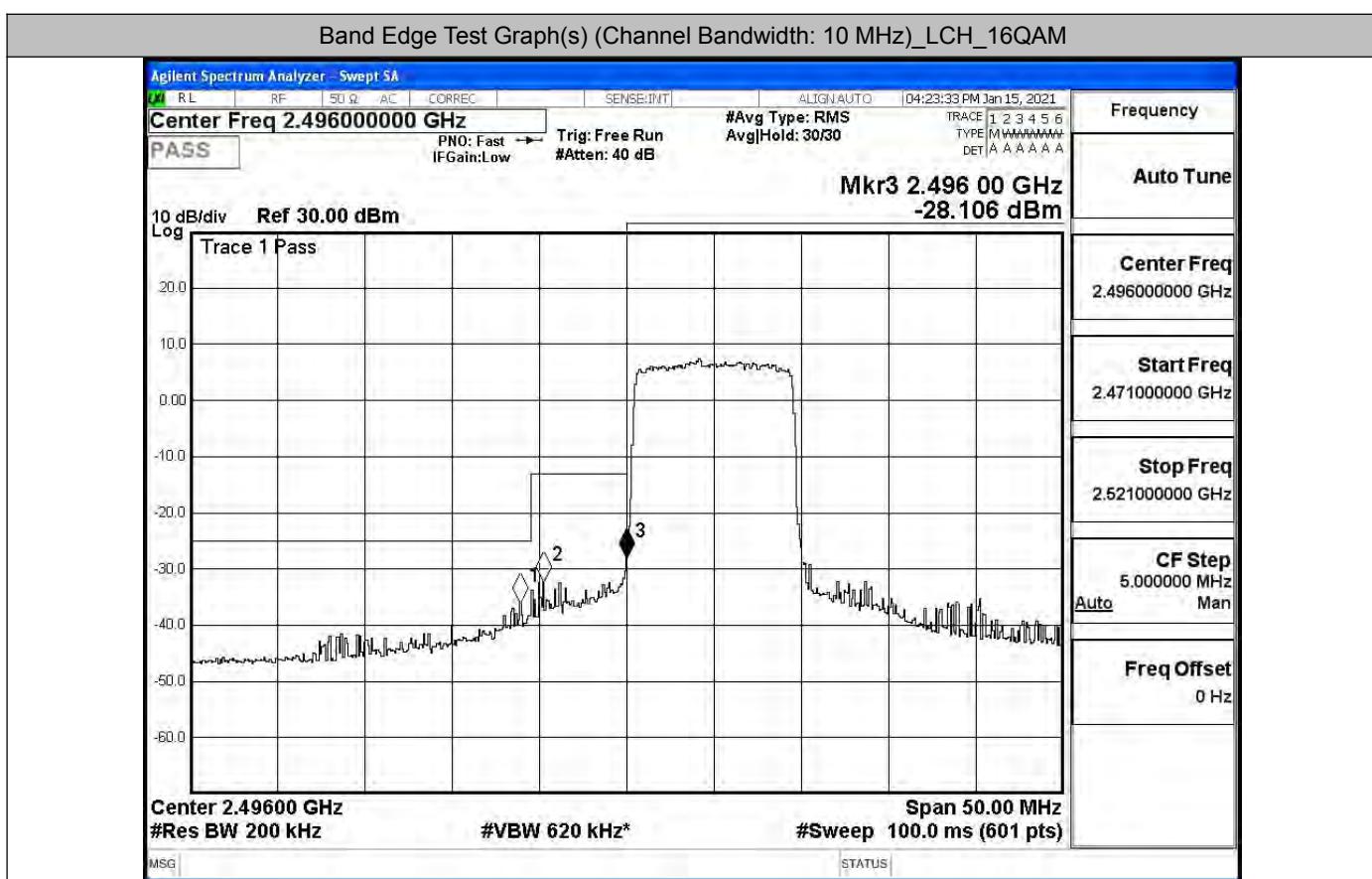
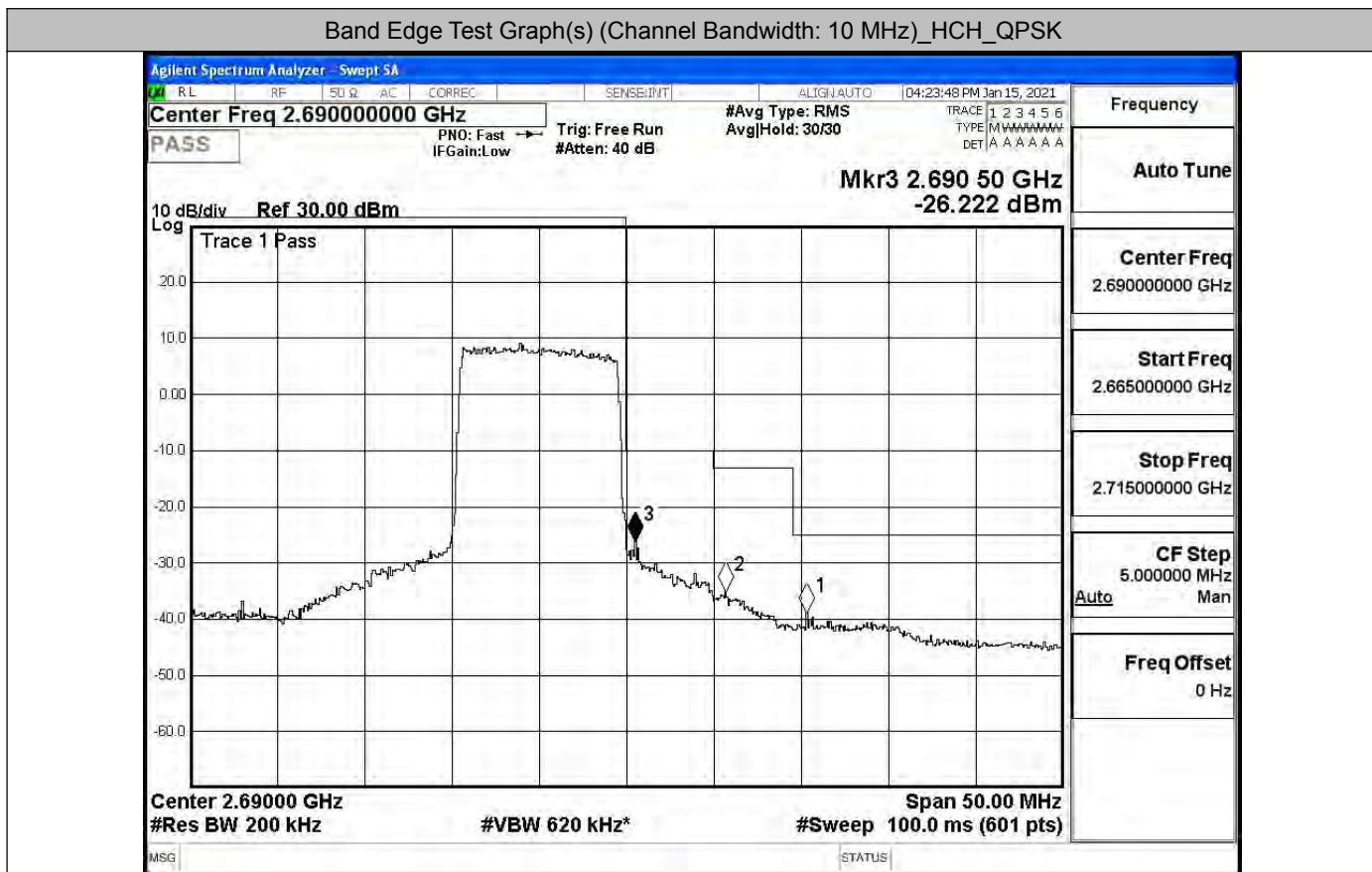


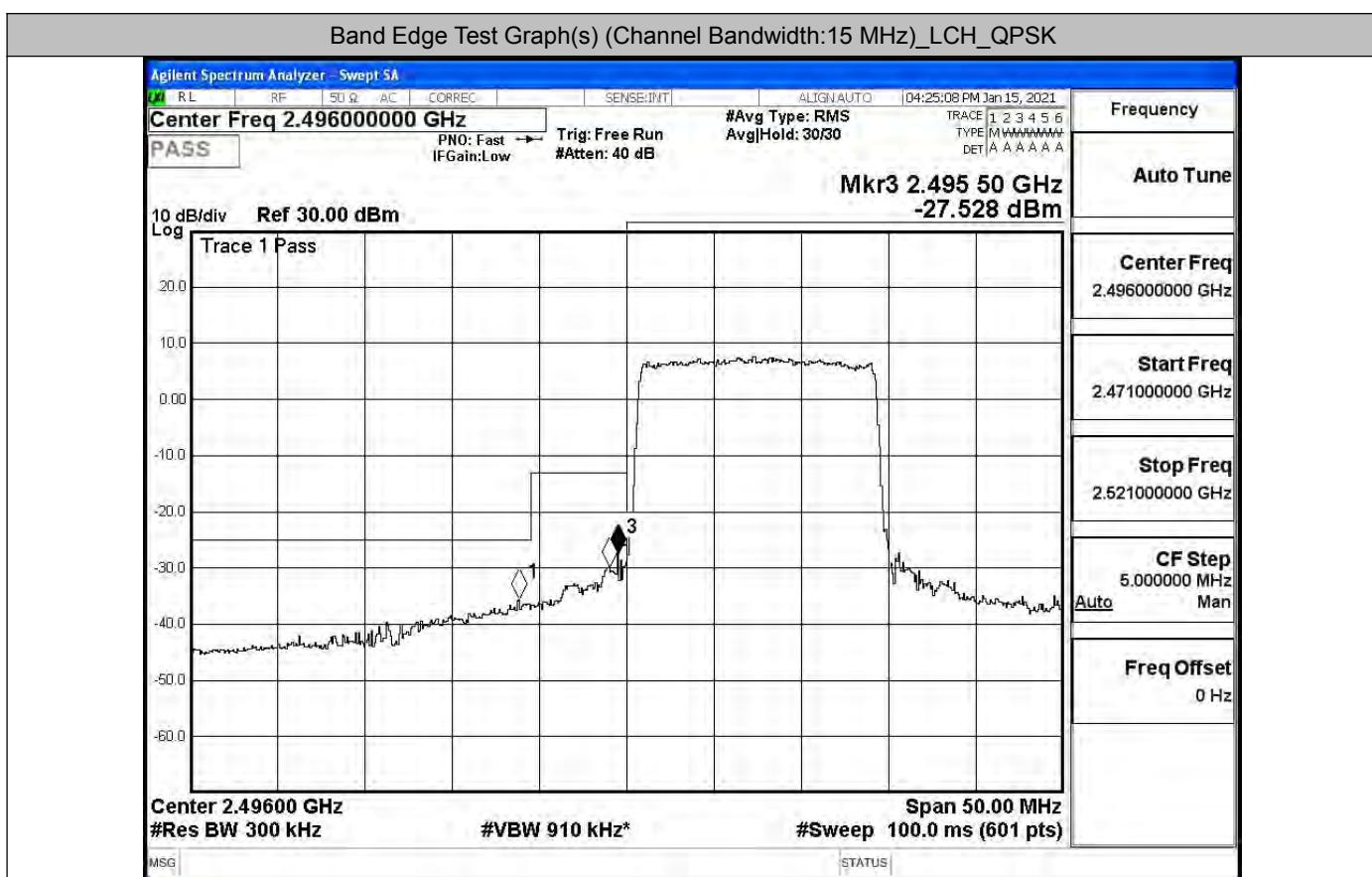
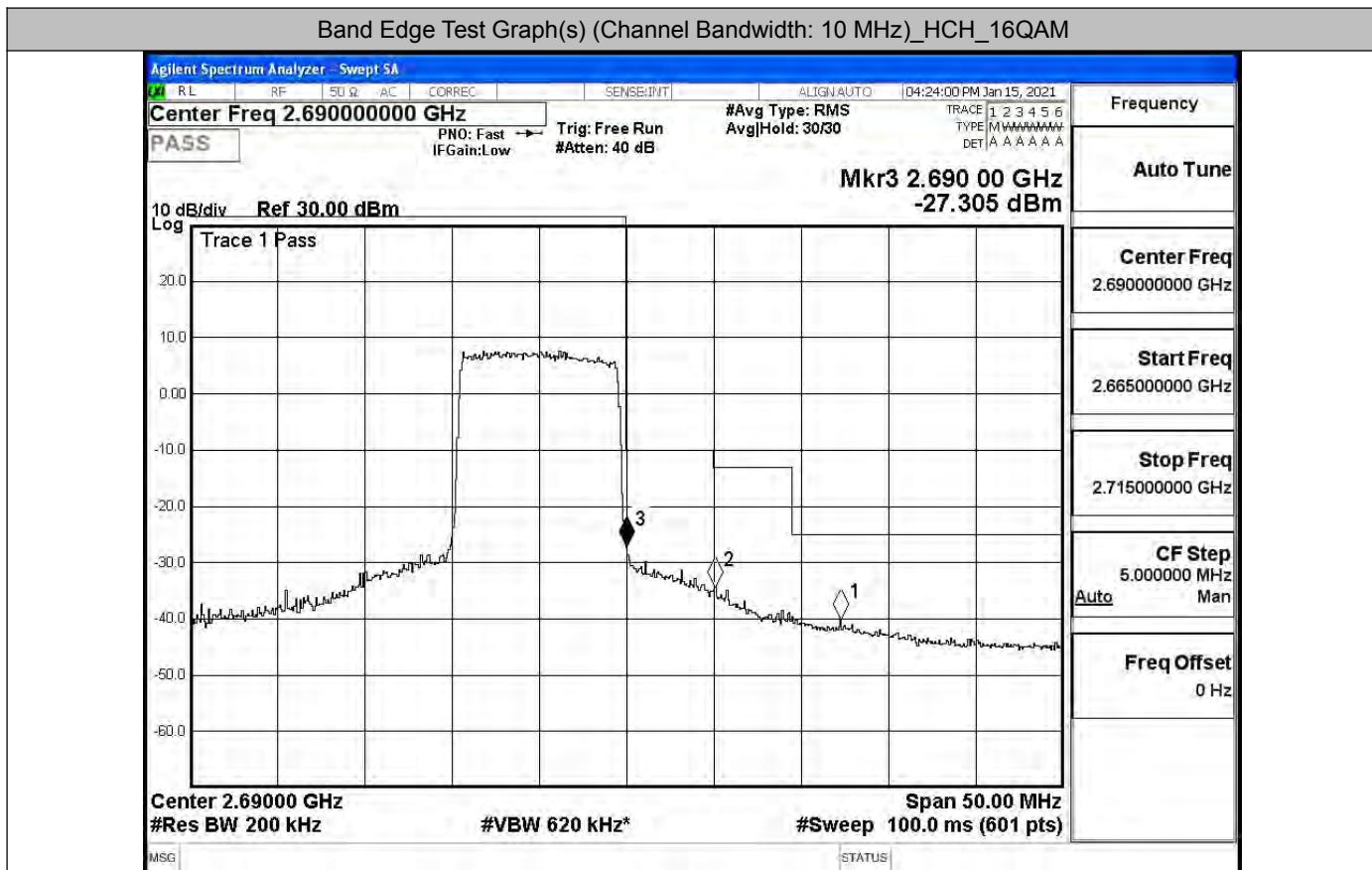
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

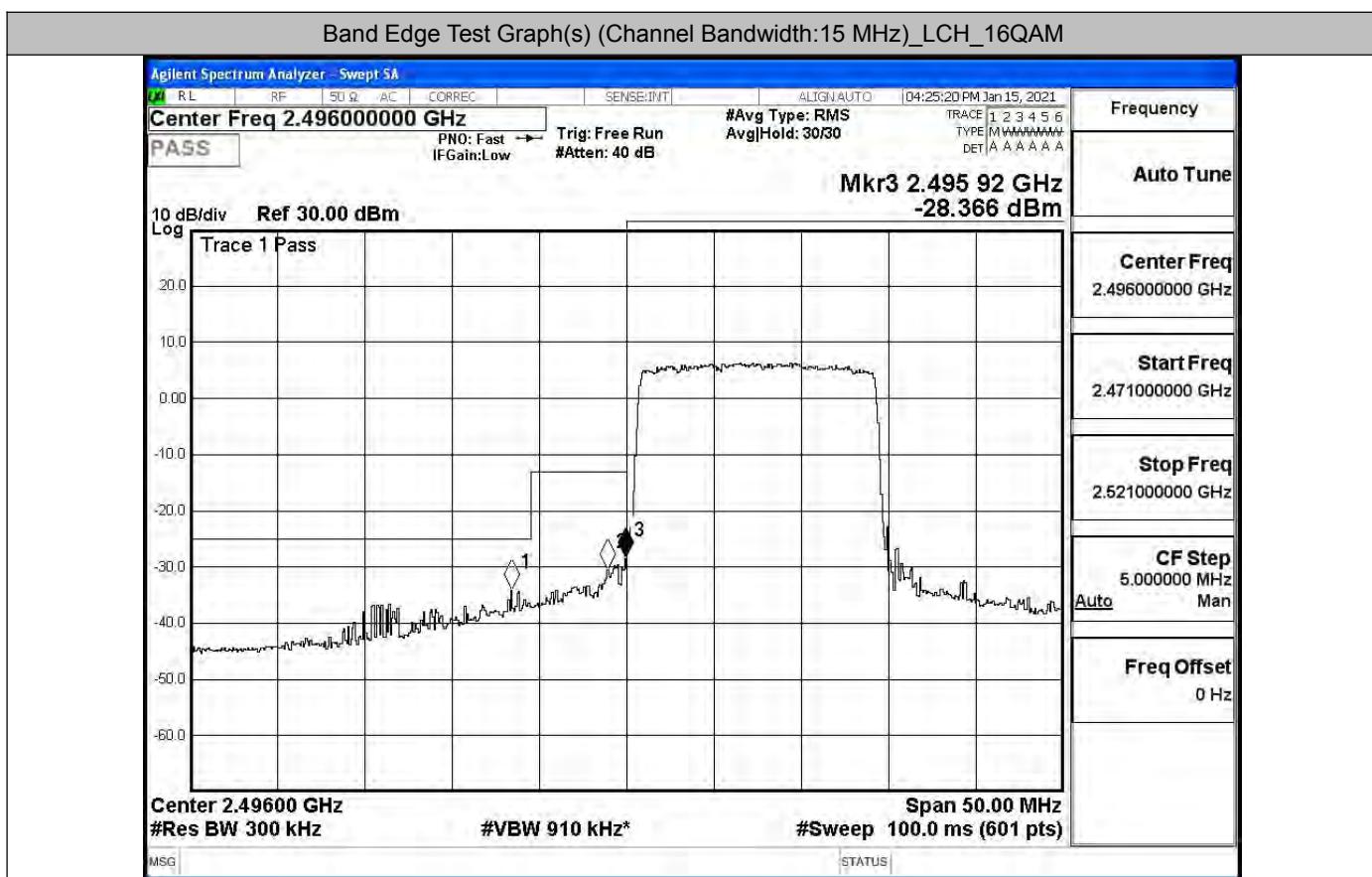
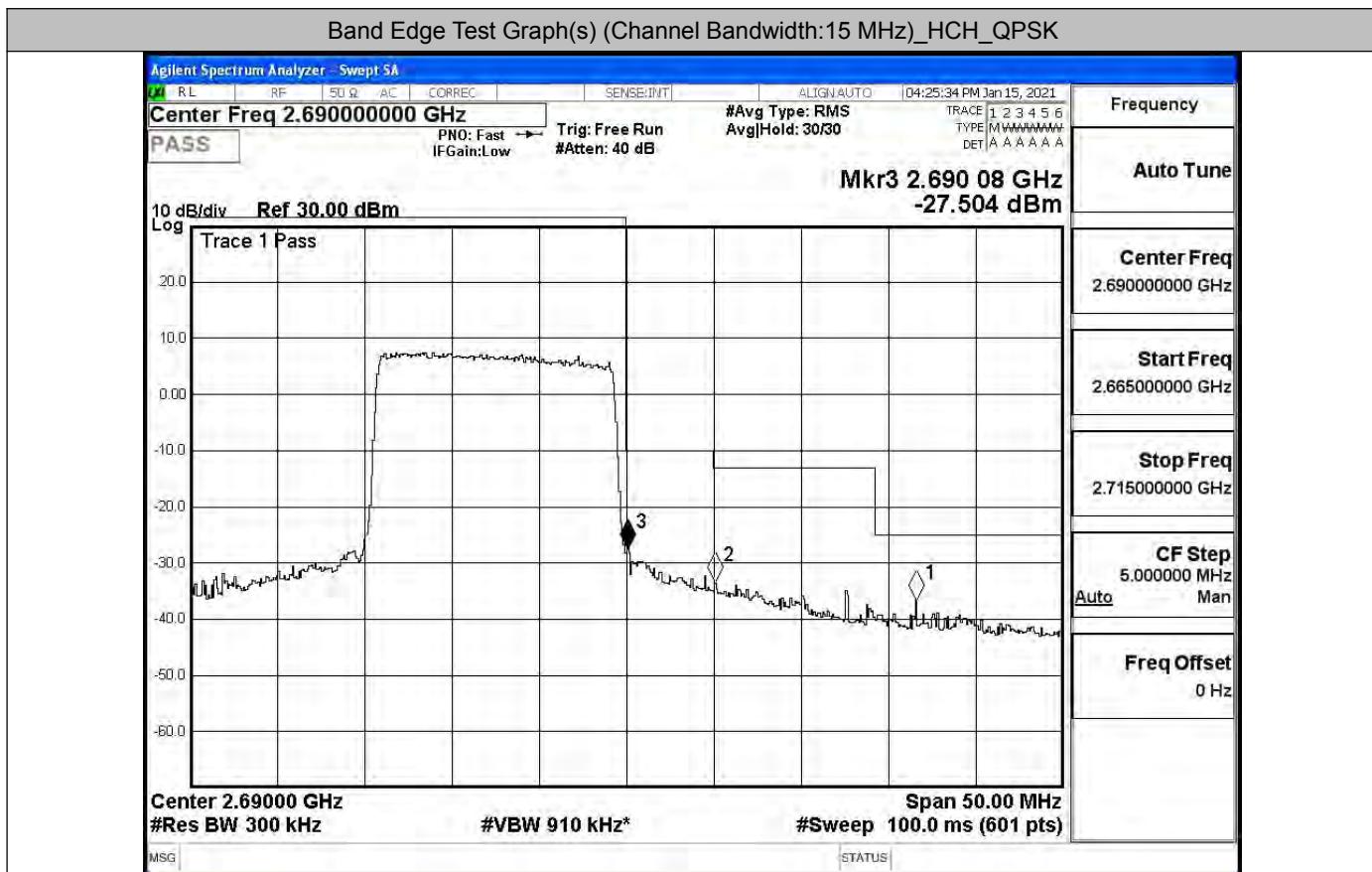


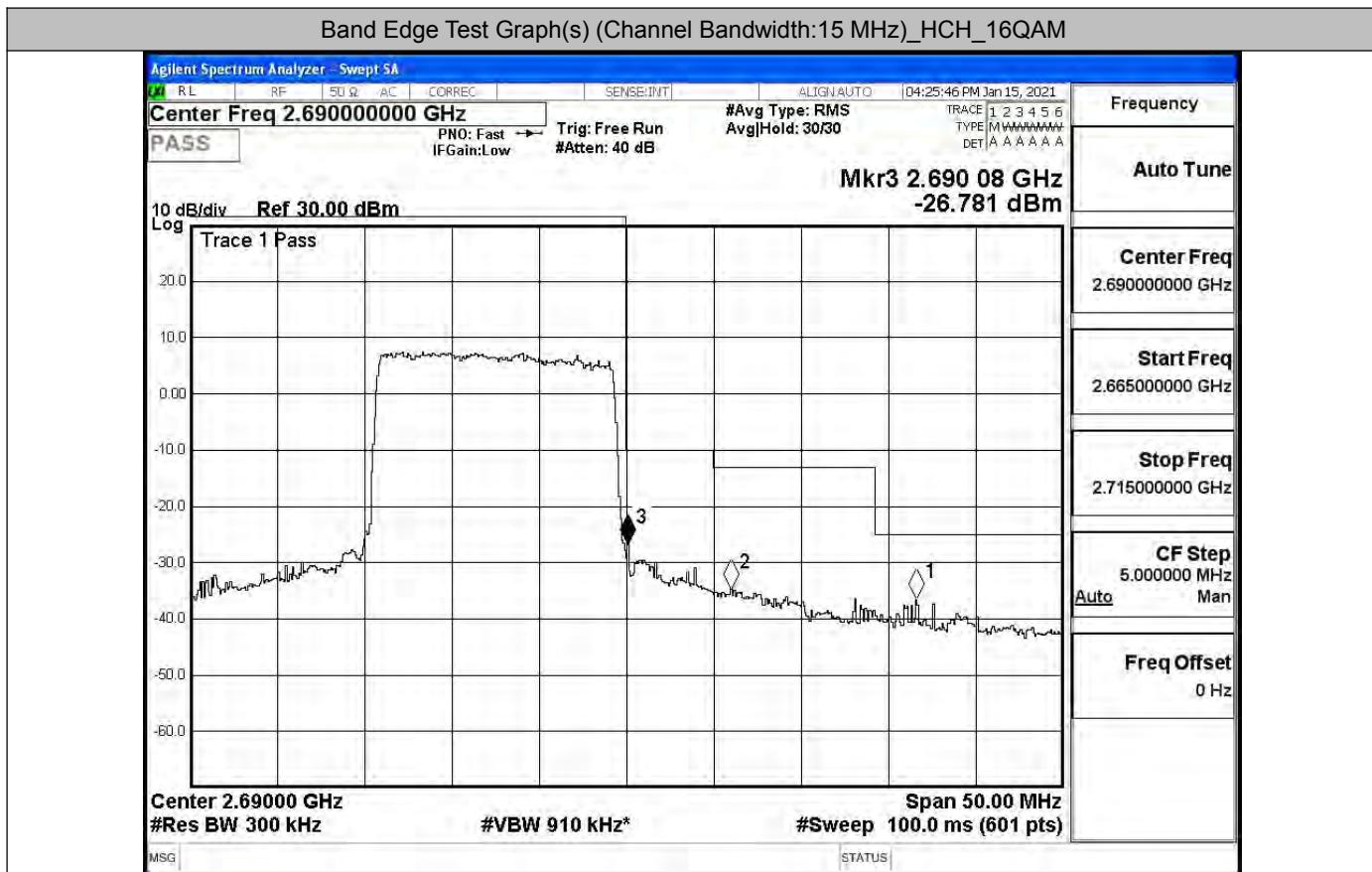
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

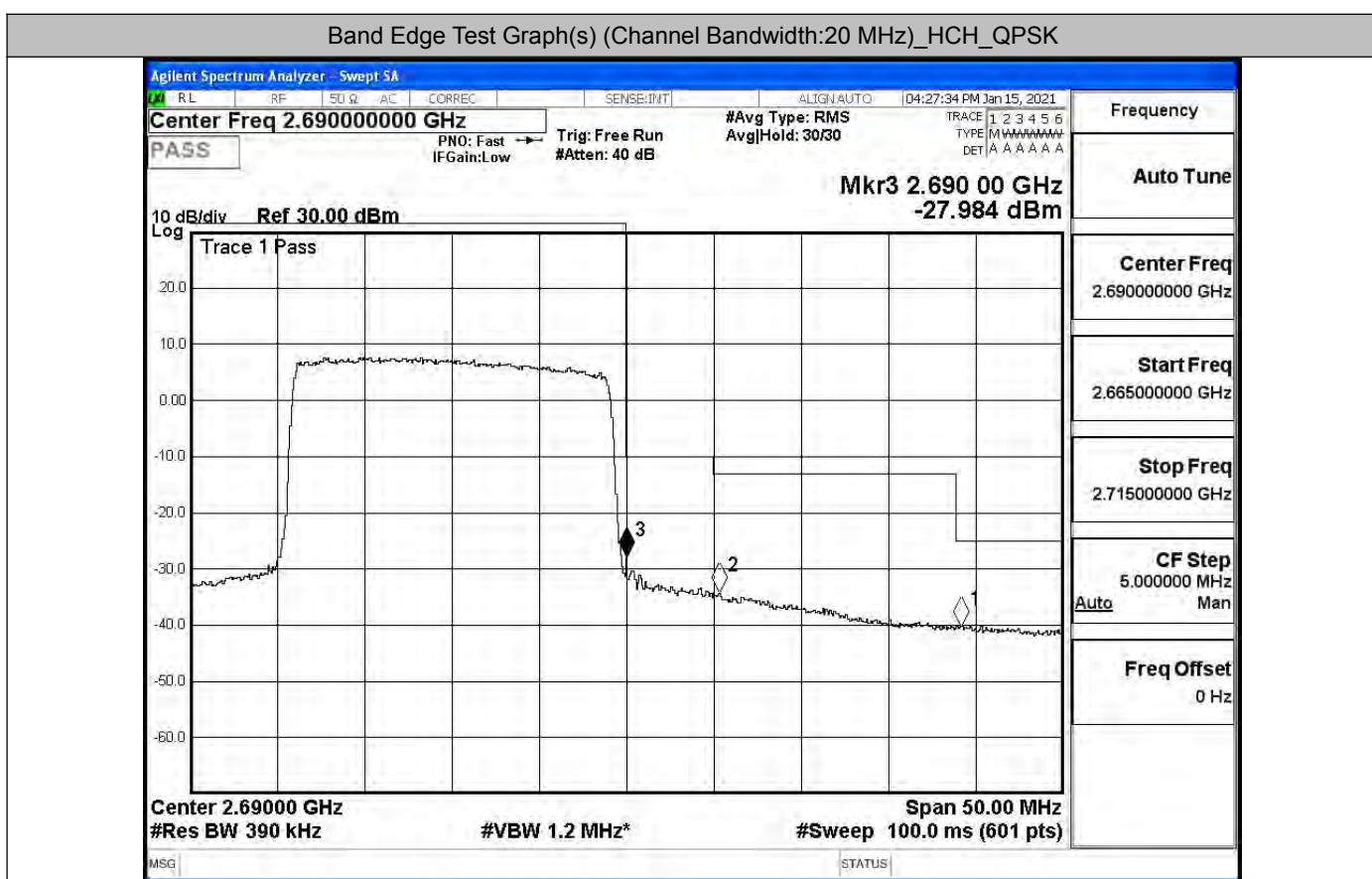
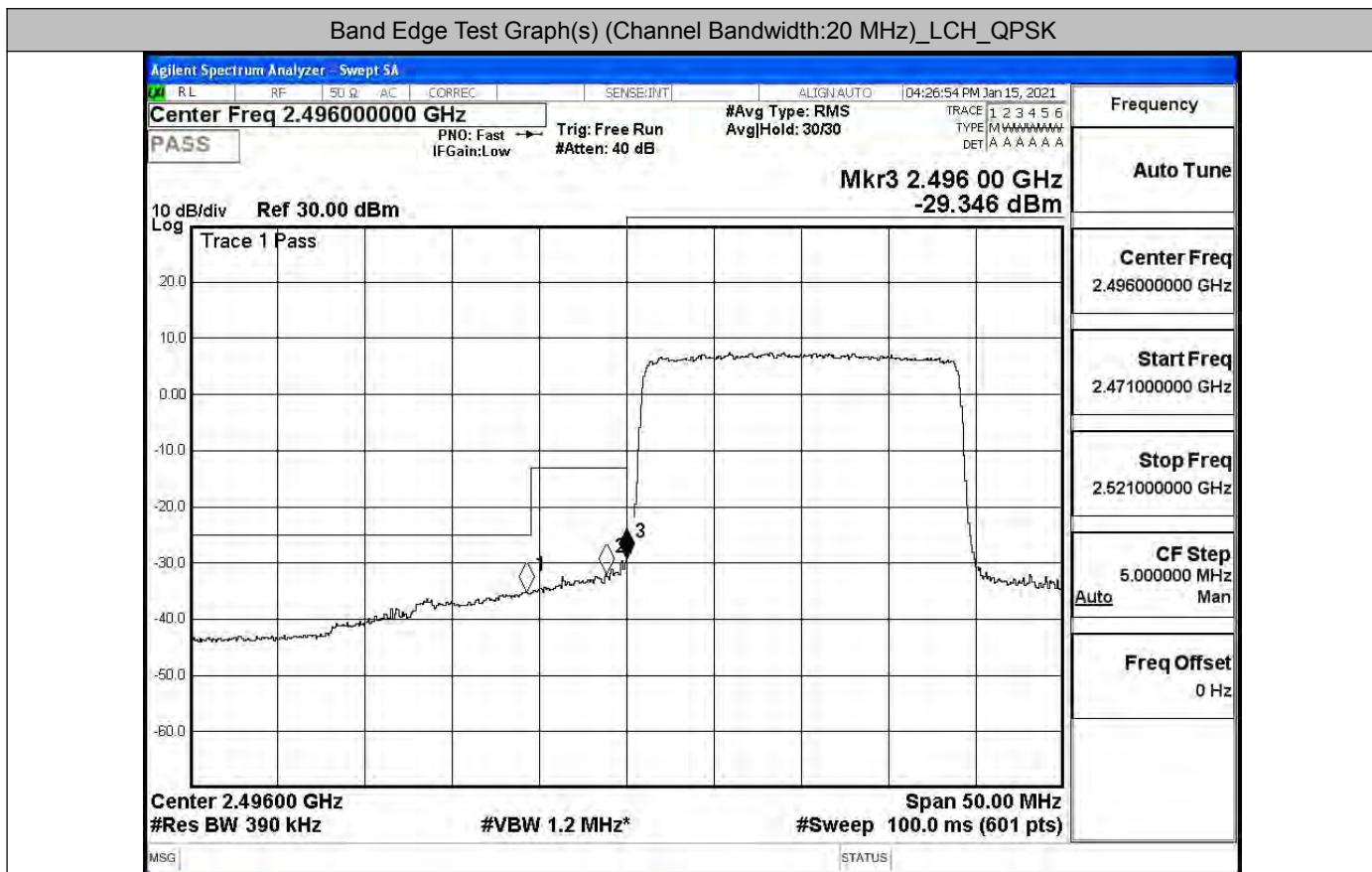


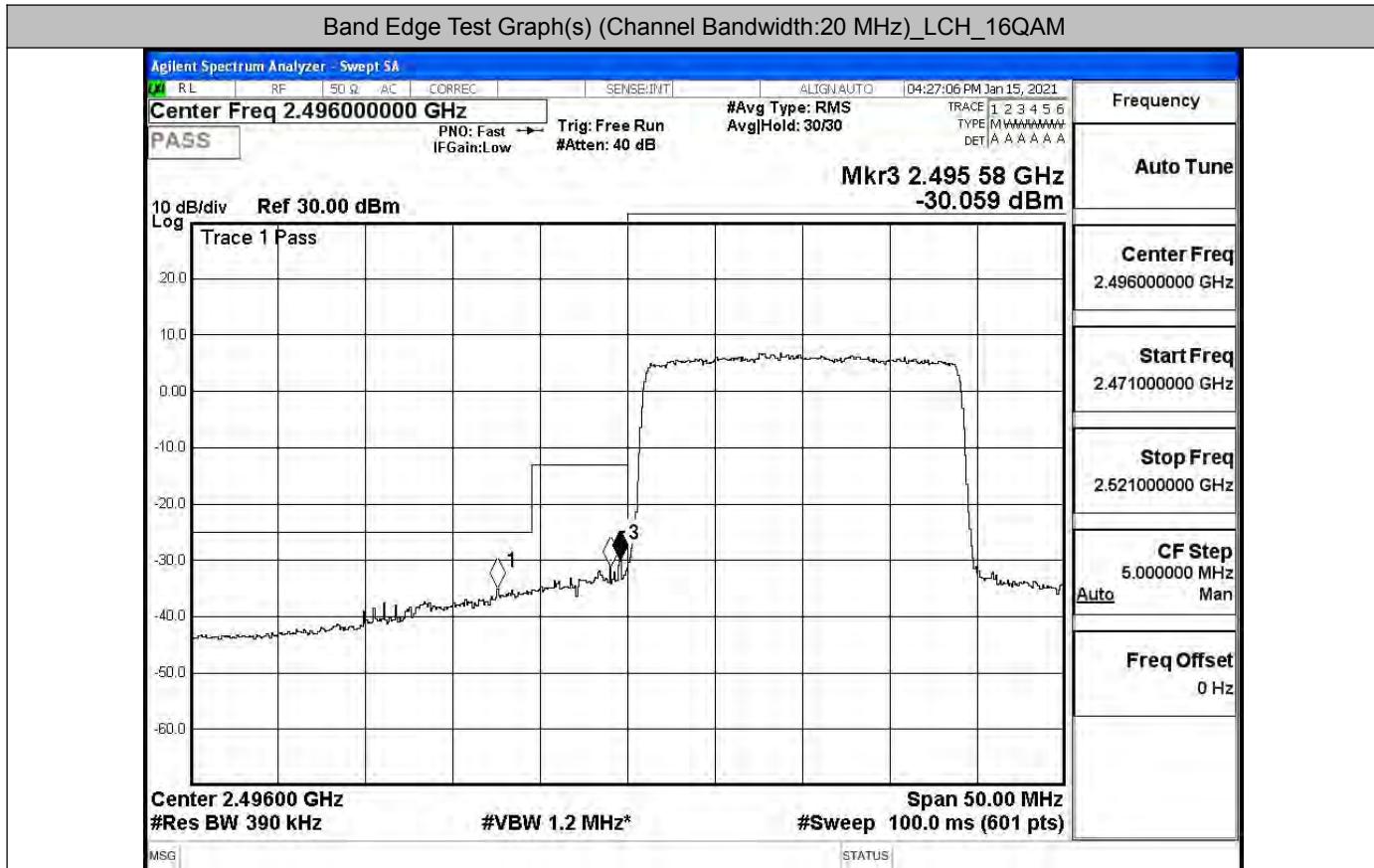


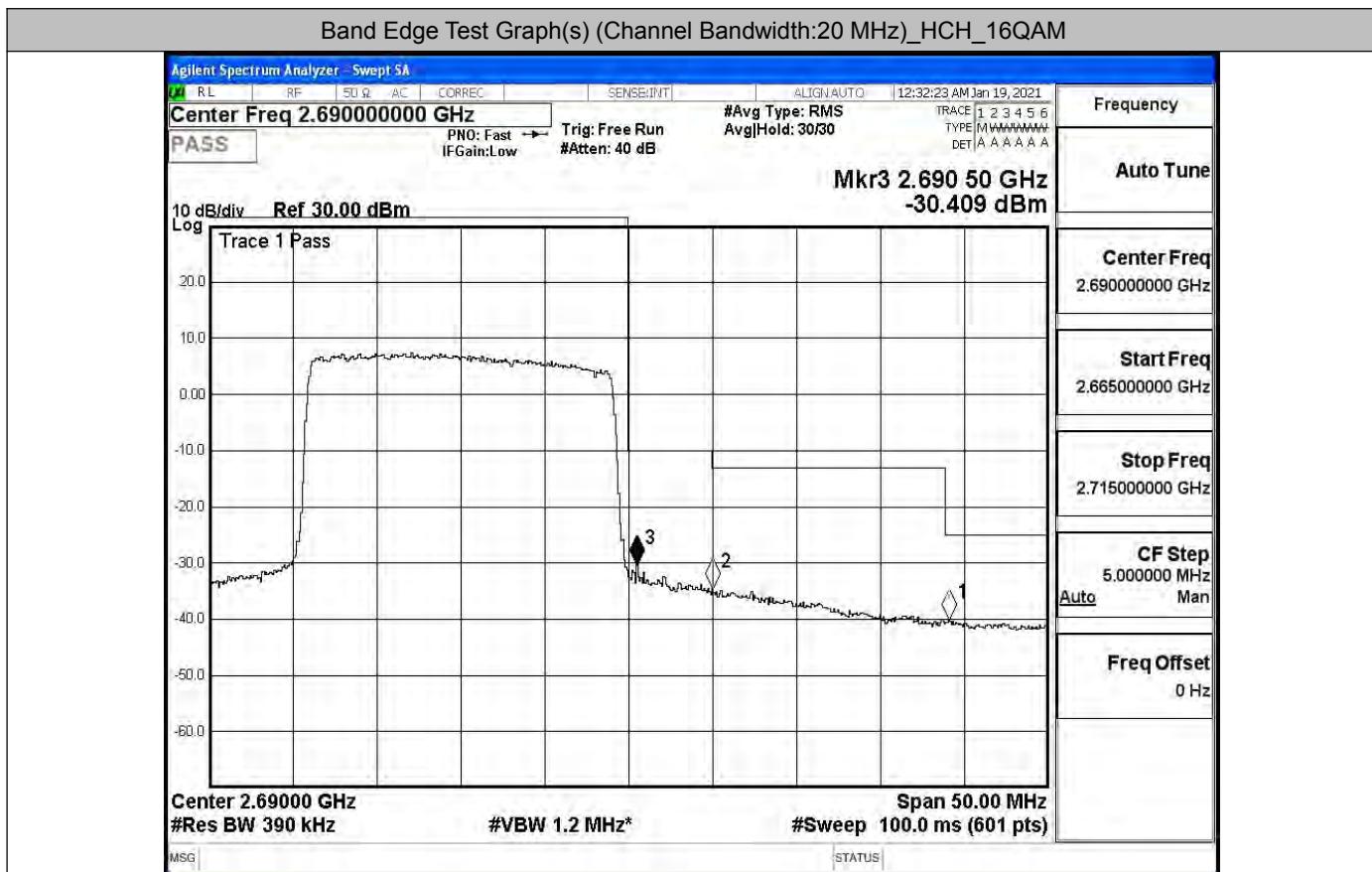






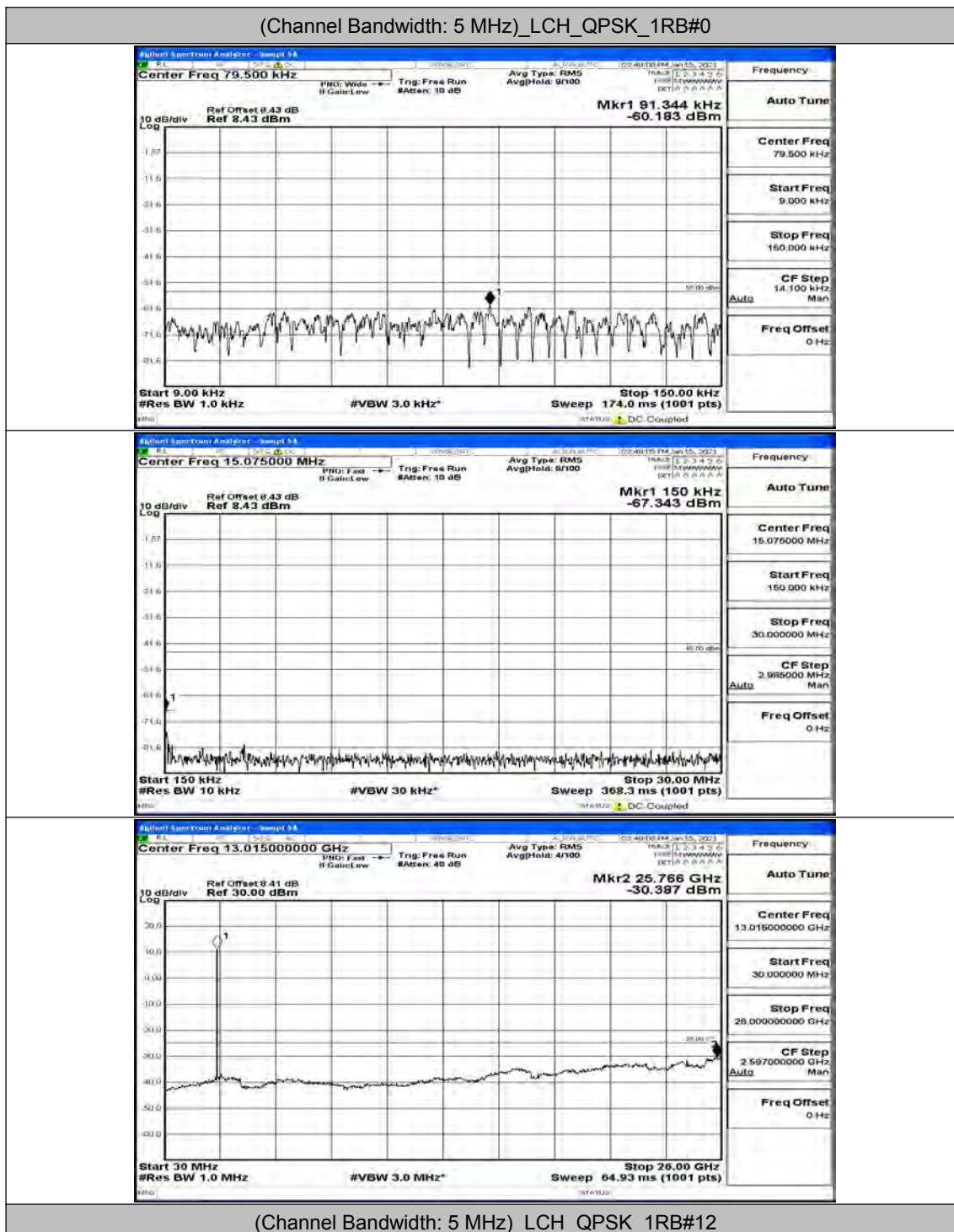


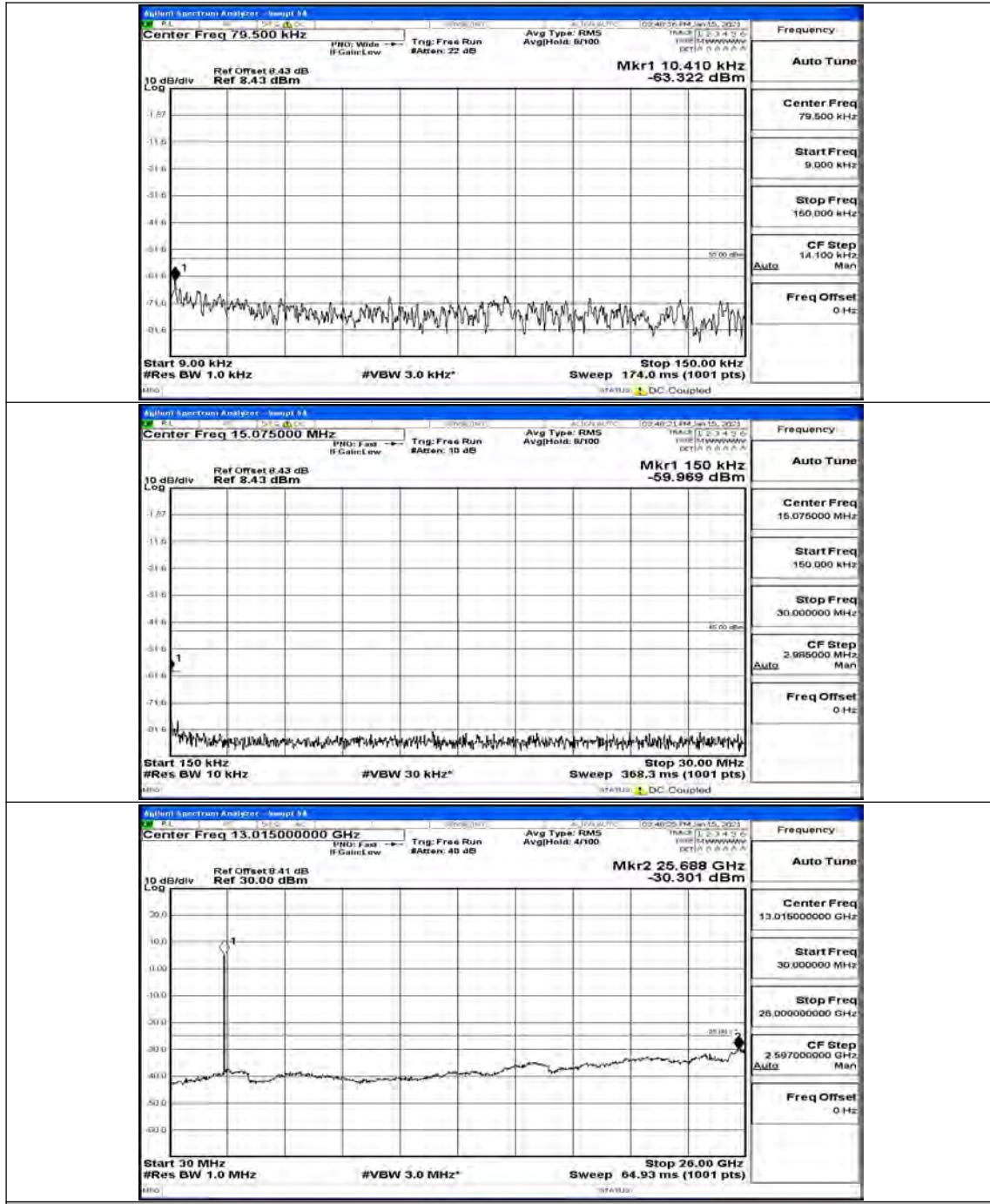




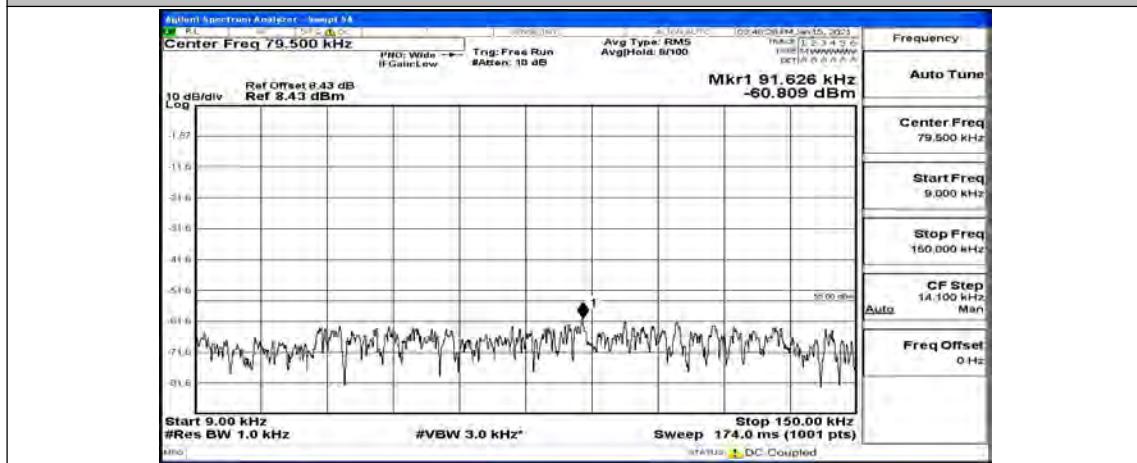
L.5: Conducted Spurious Emission Test Graphs

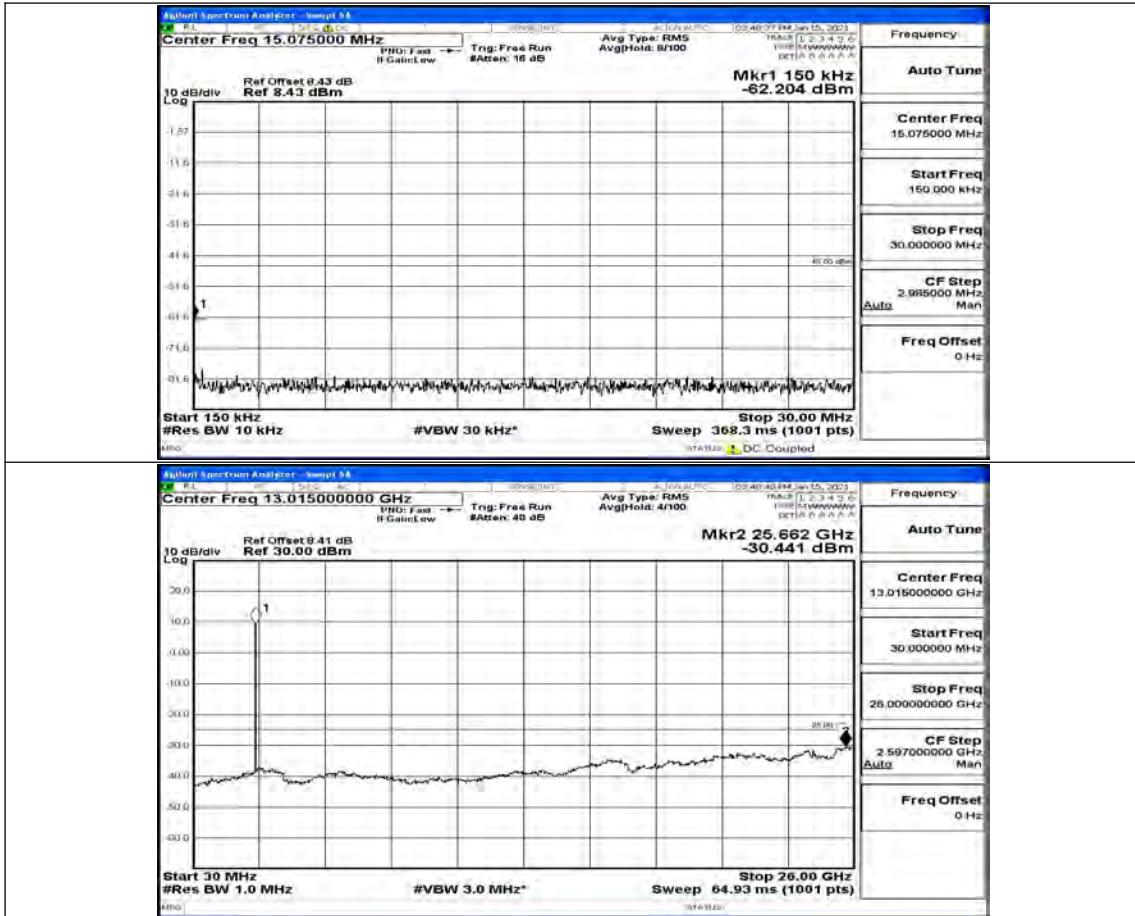
Channel Bandwidth: 5 MHz



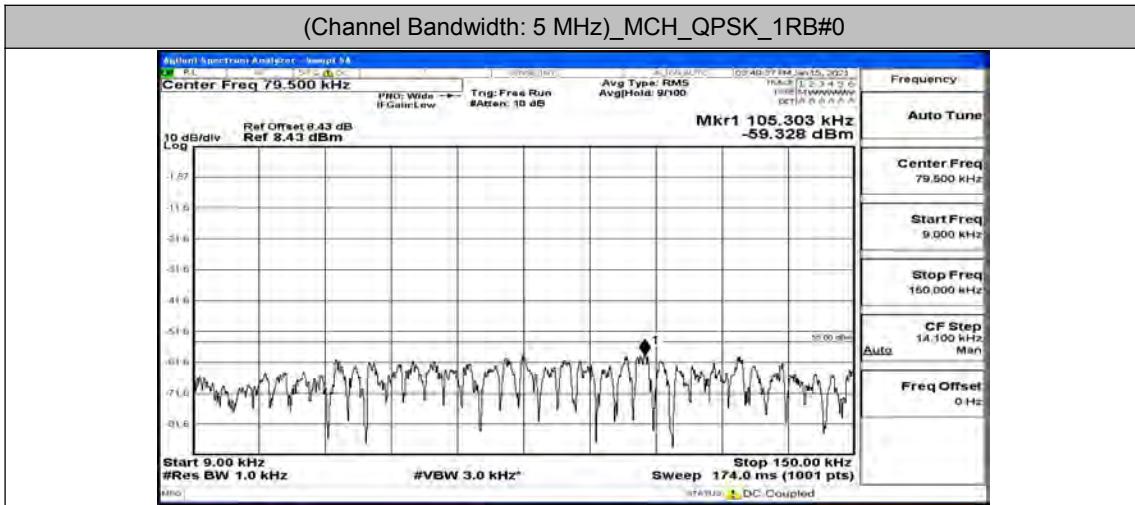


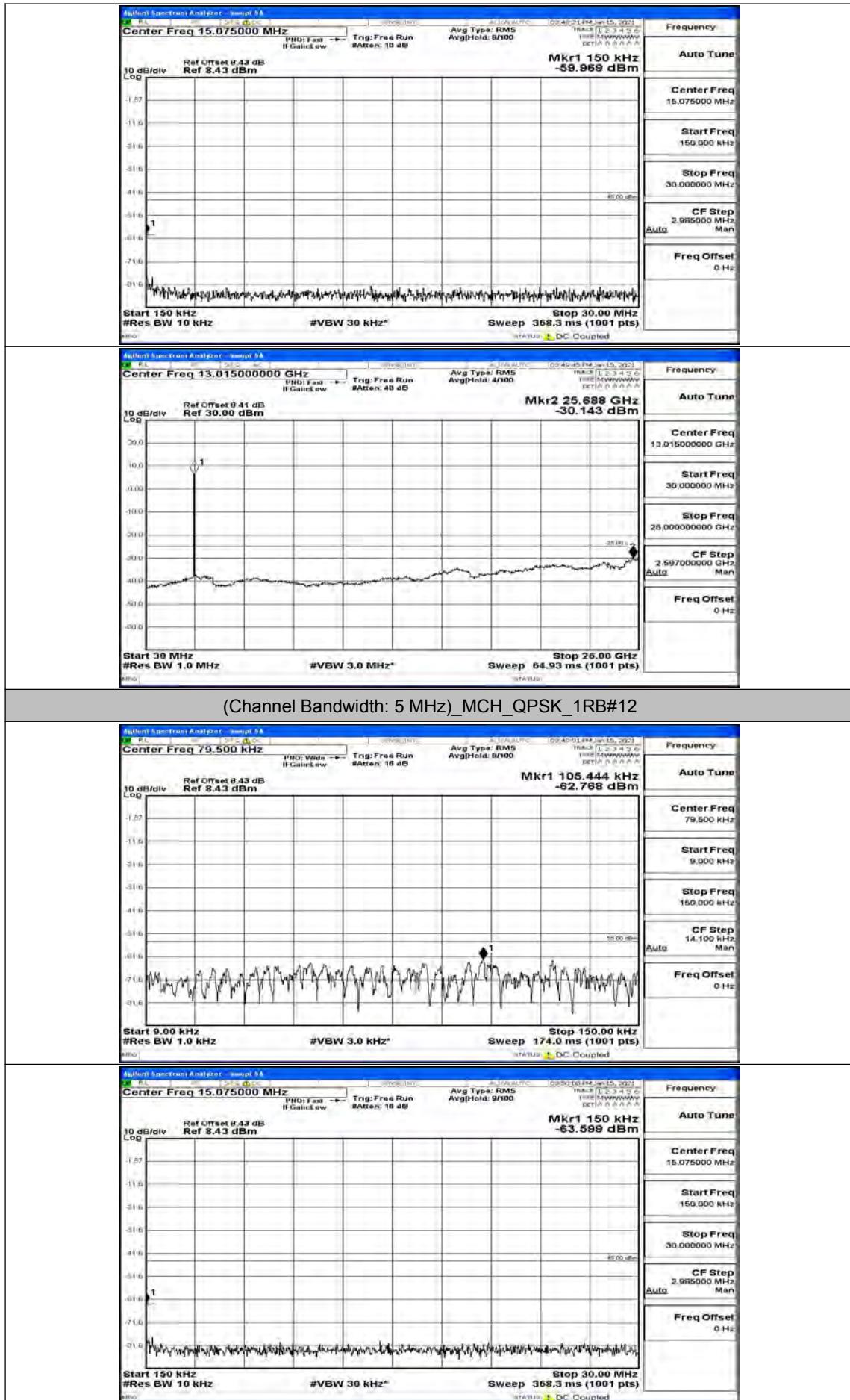
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

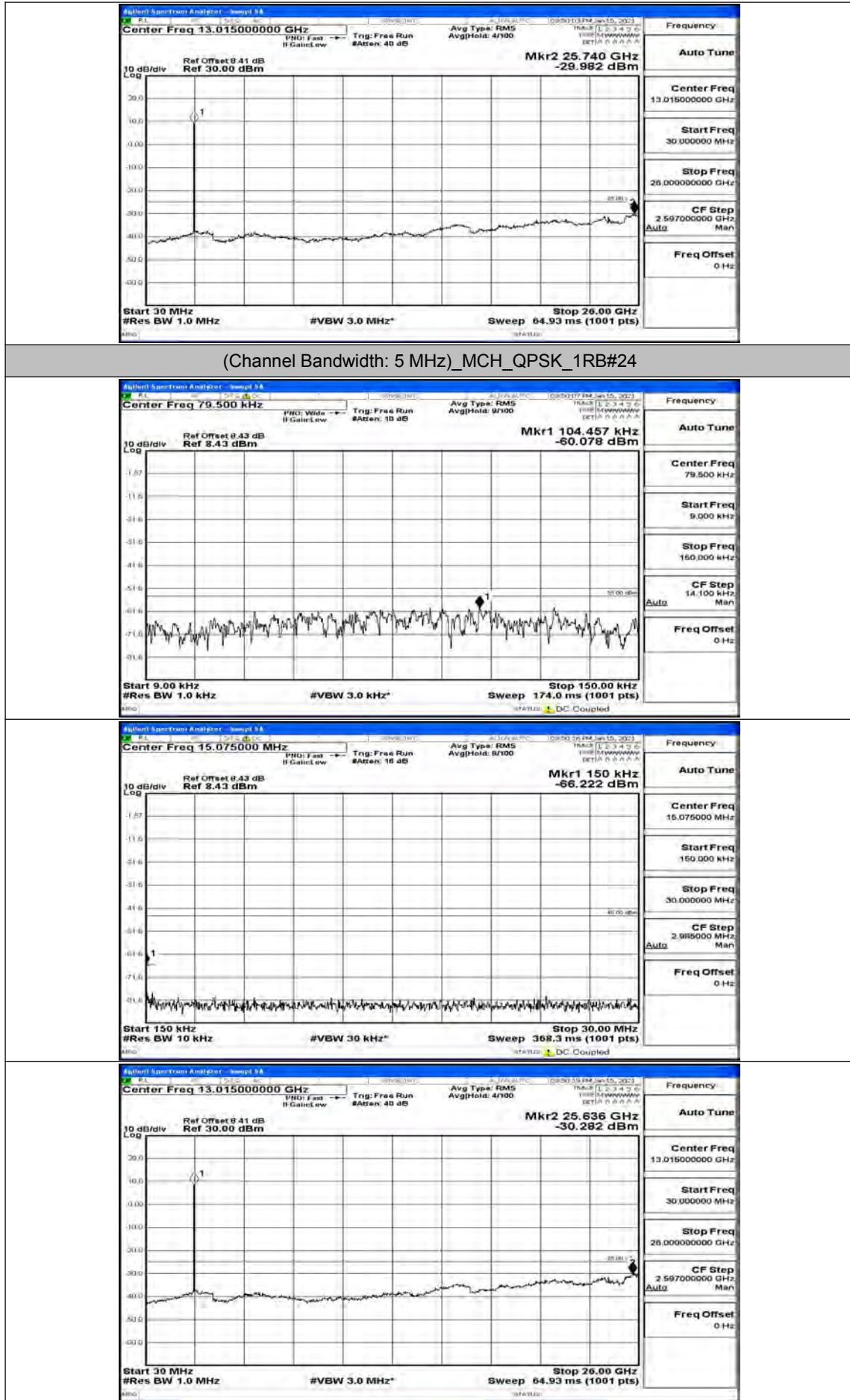




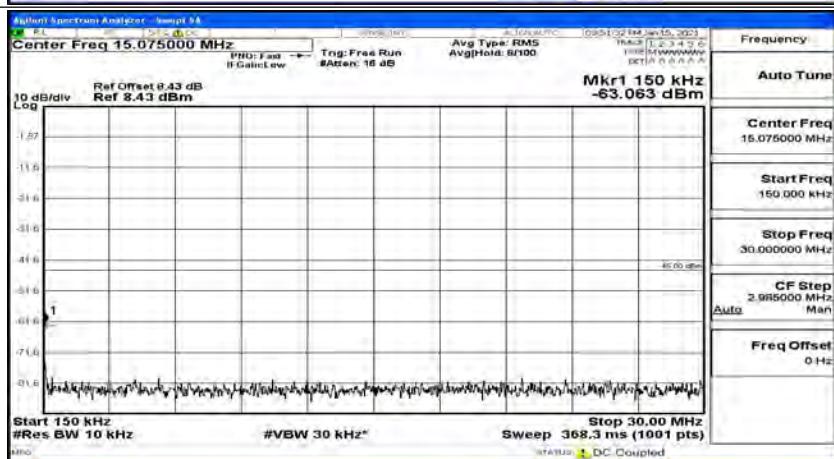
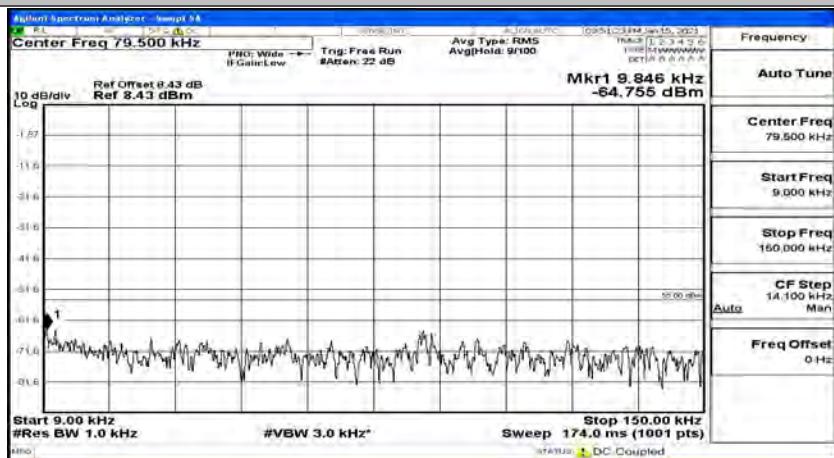
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



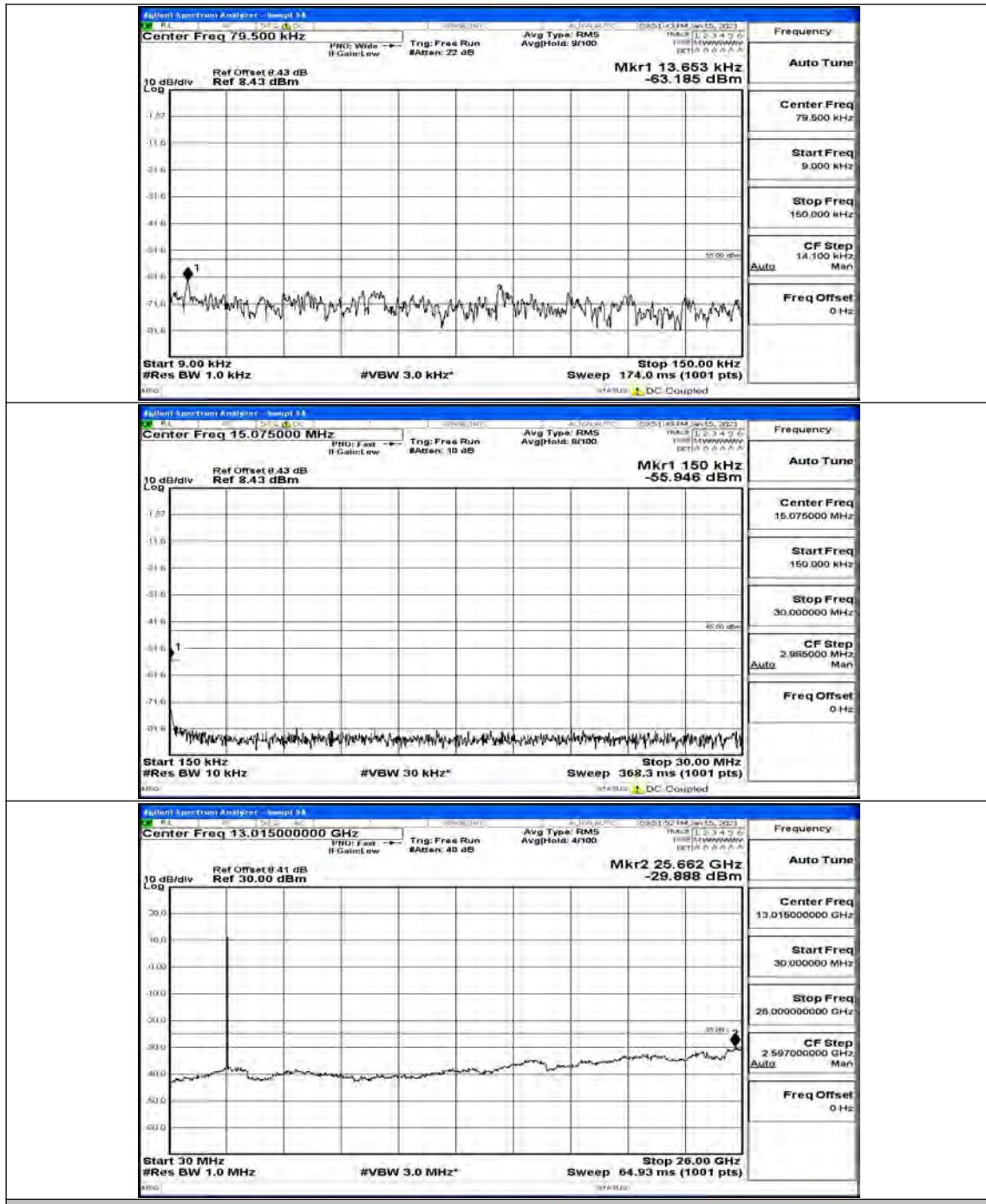




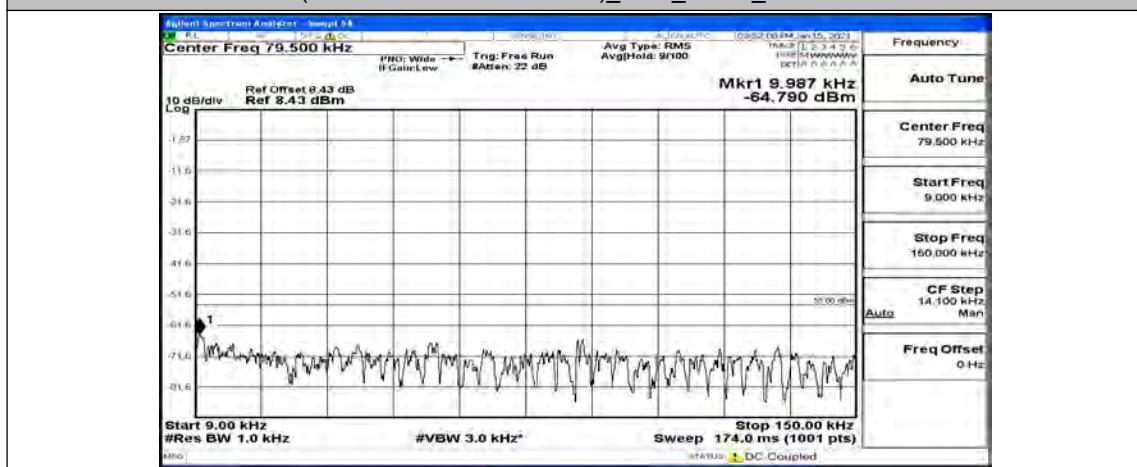
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

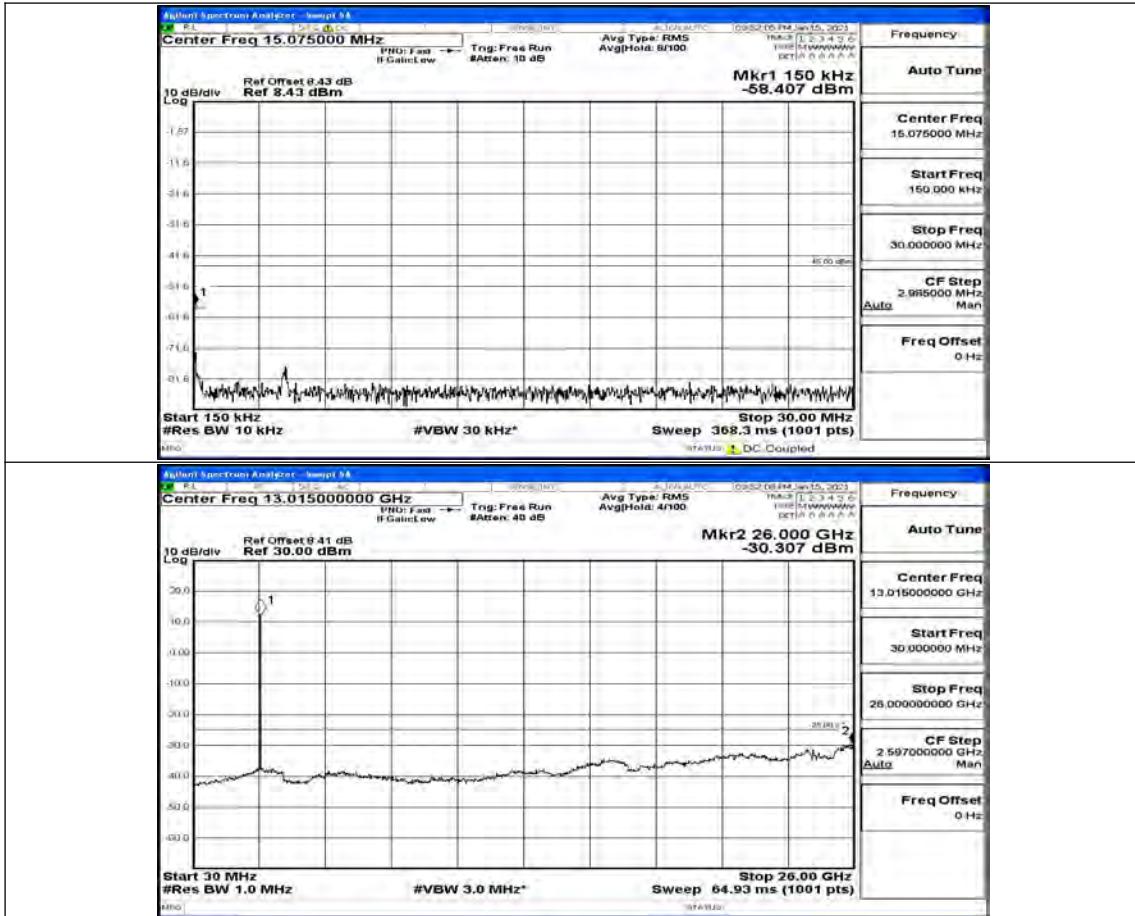


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

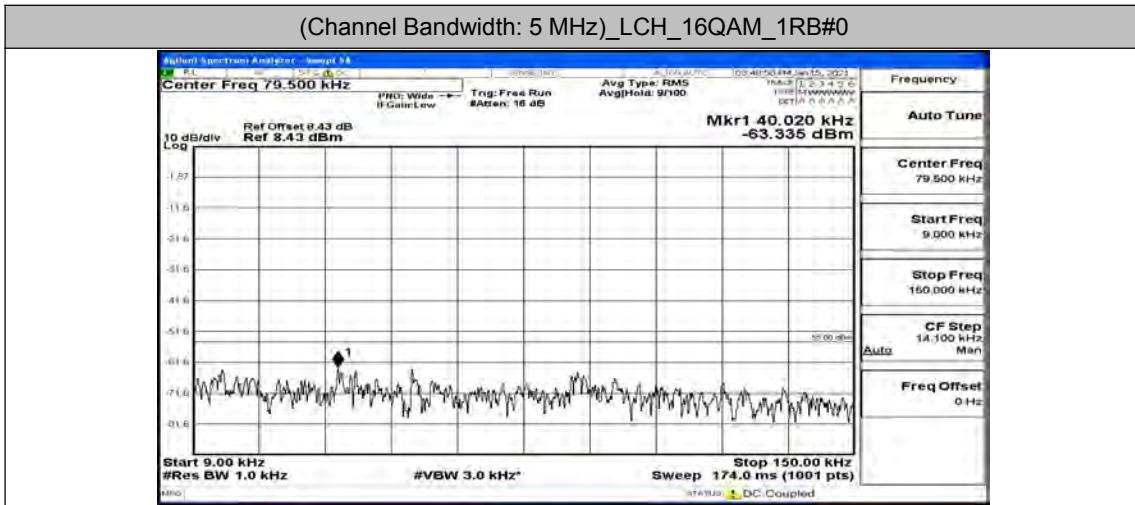


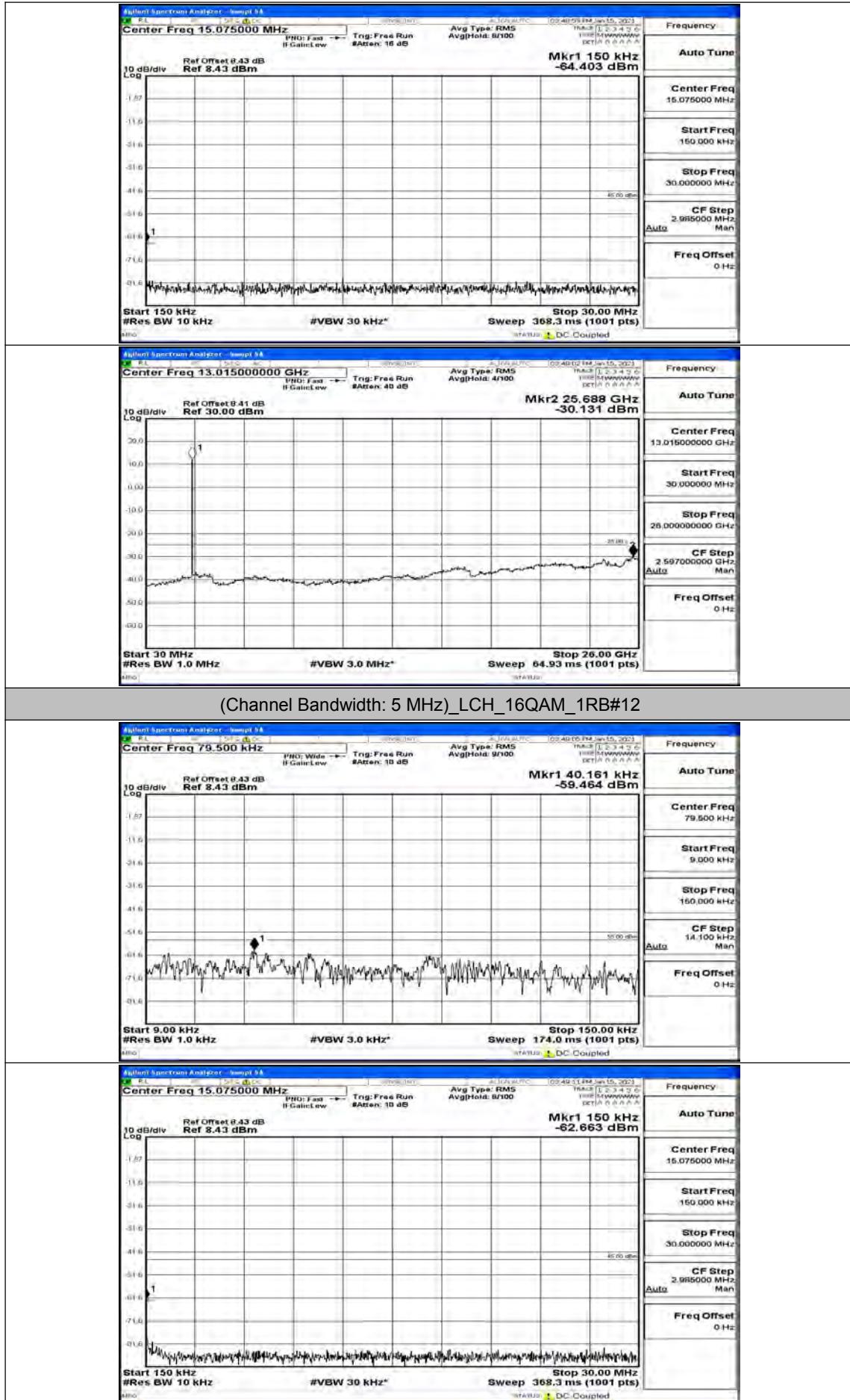
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

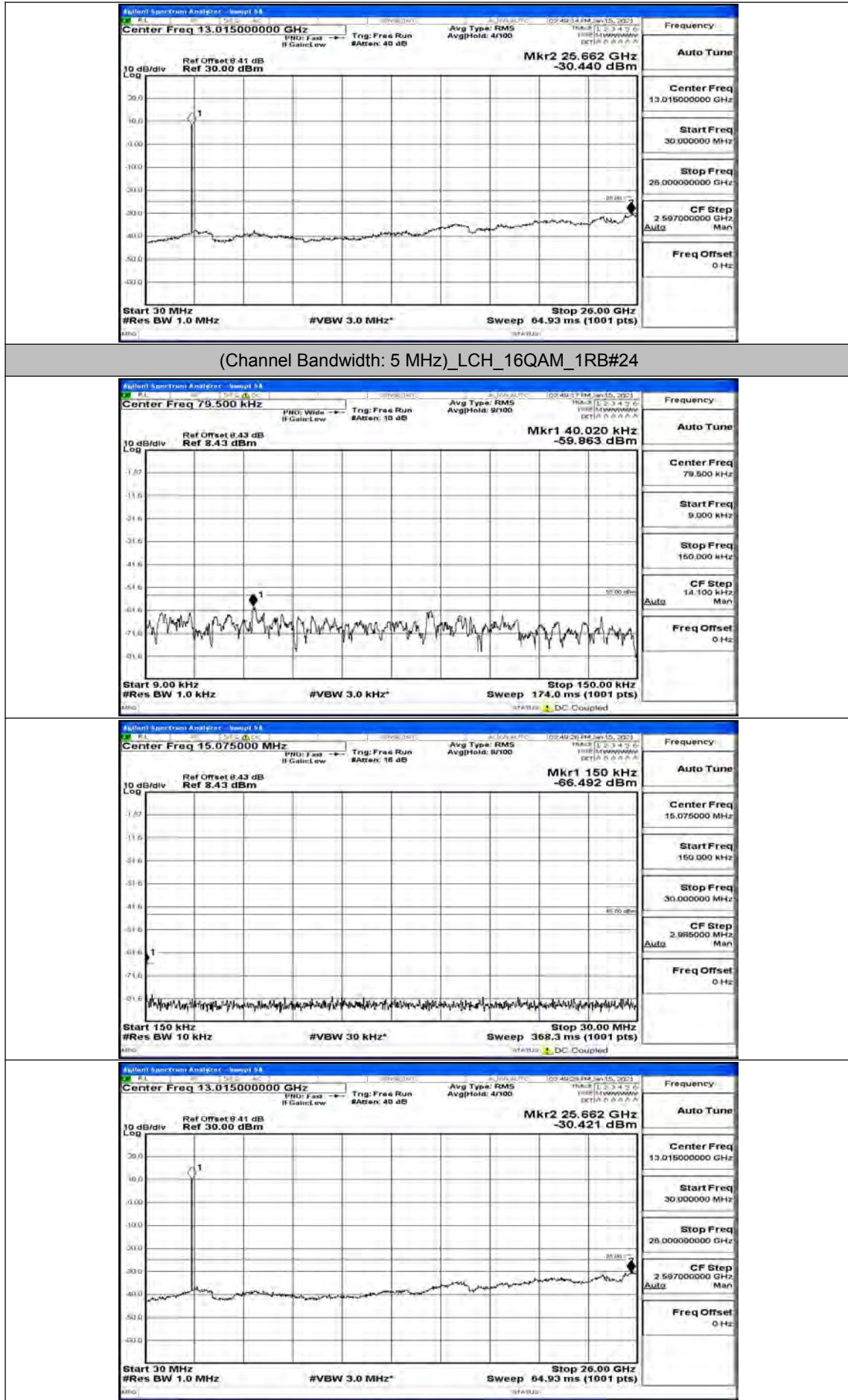




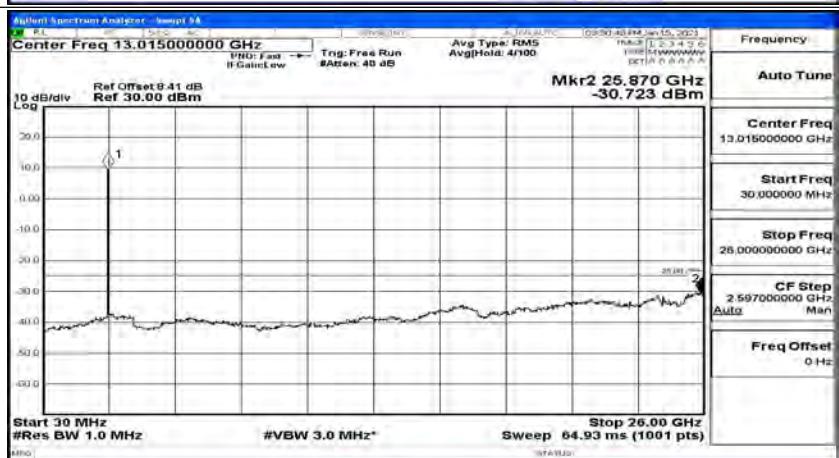
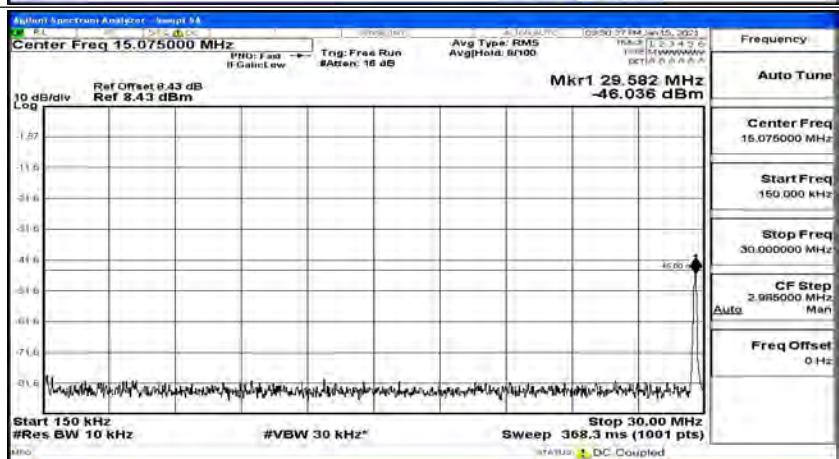
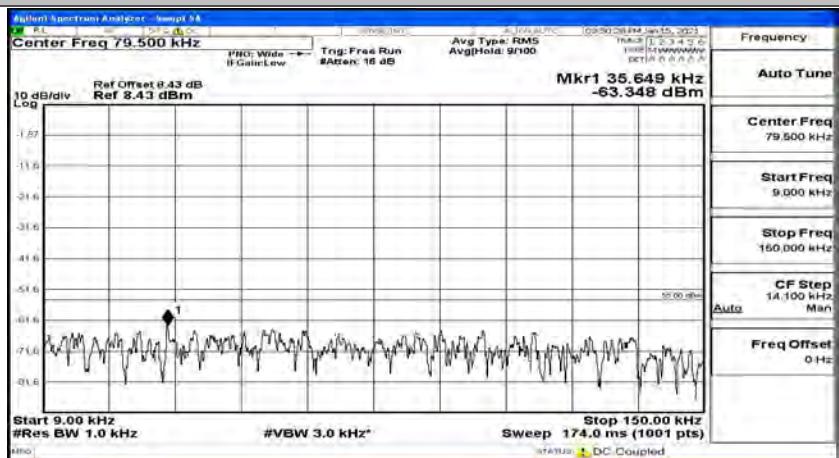
(Channel Bandwidth: 5 MHz) _LCH_16QAM_1RB#0



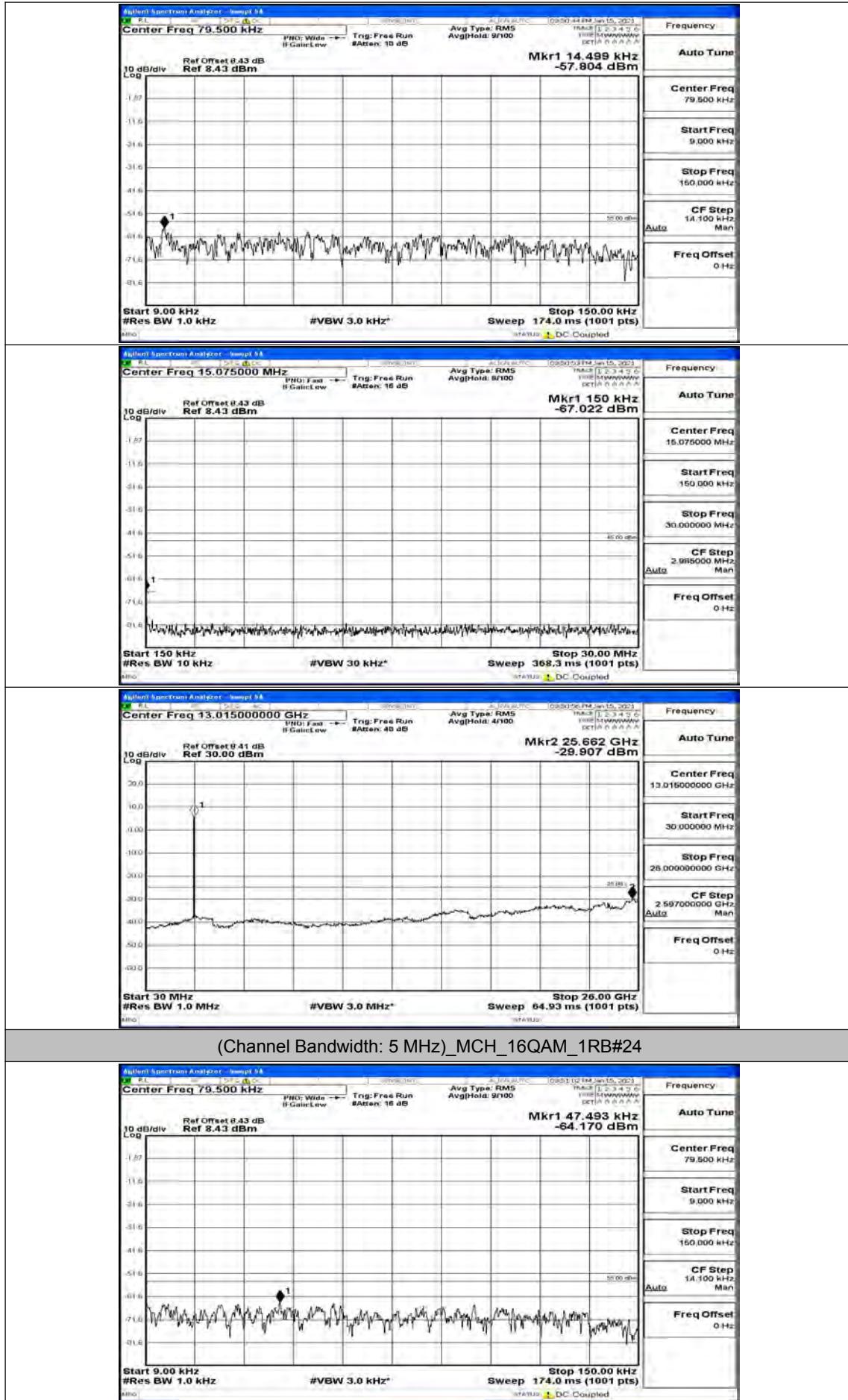




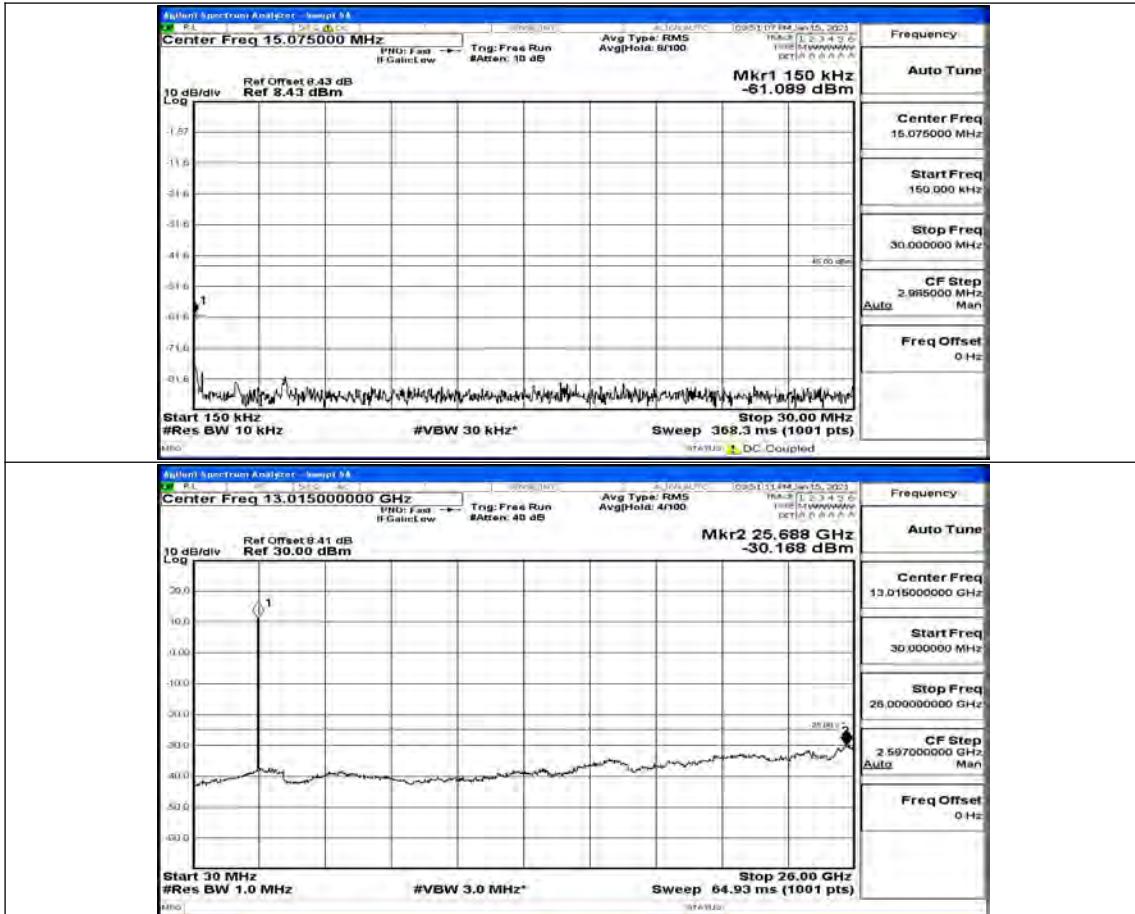
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



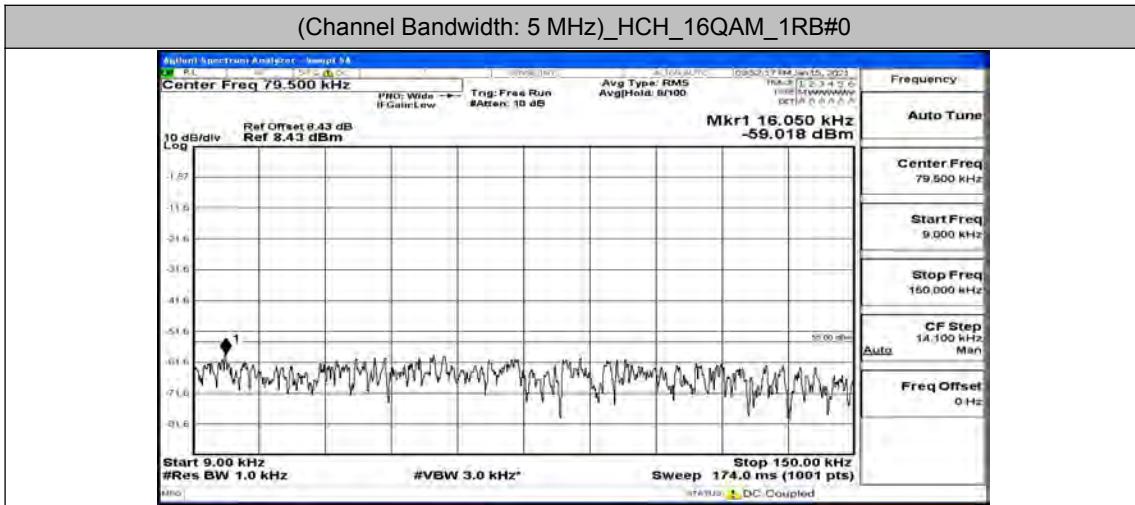
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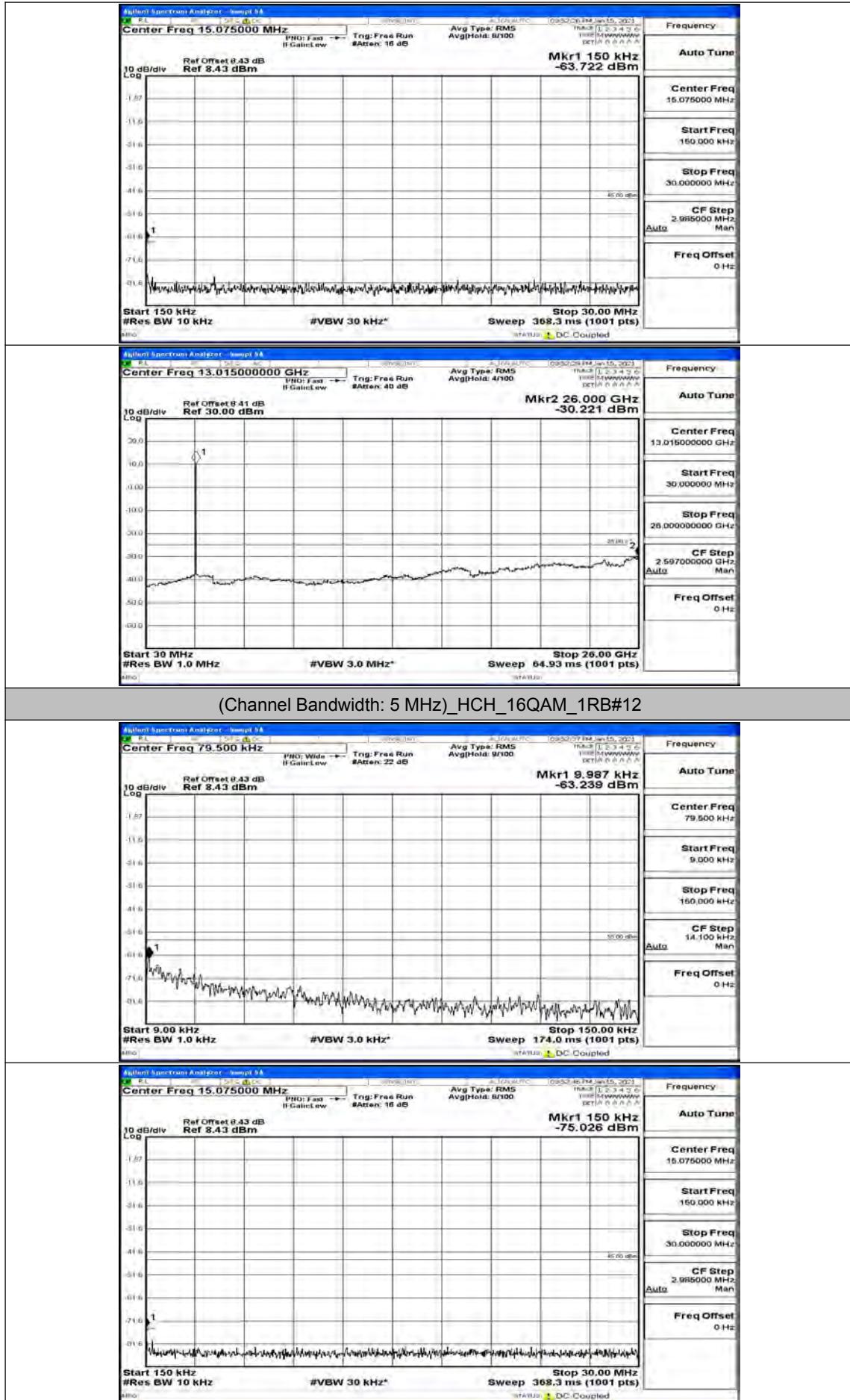


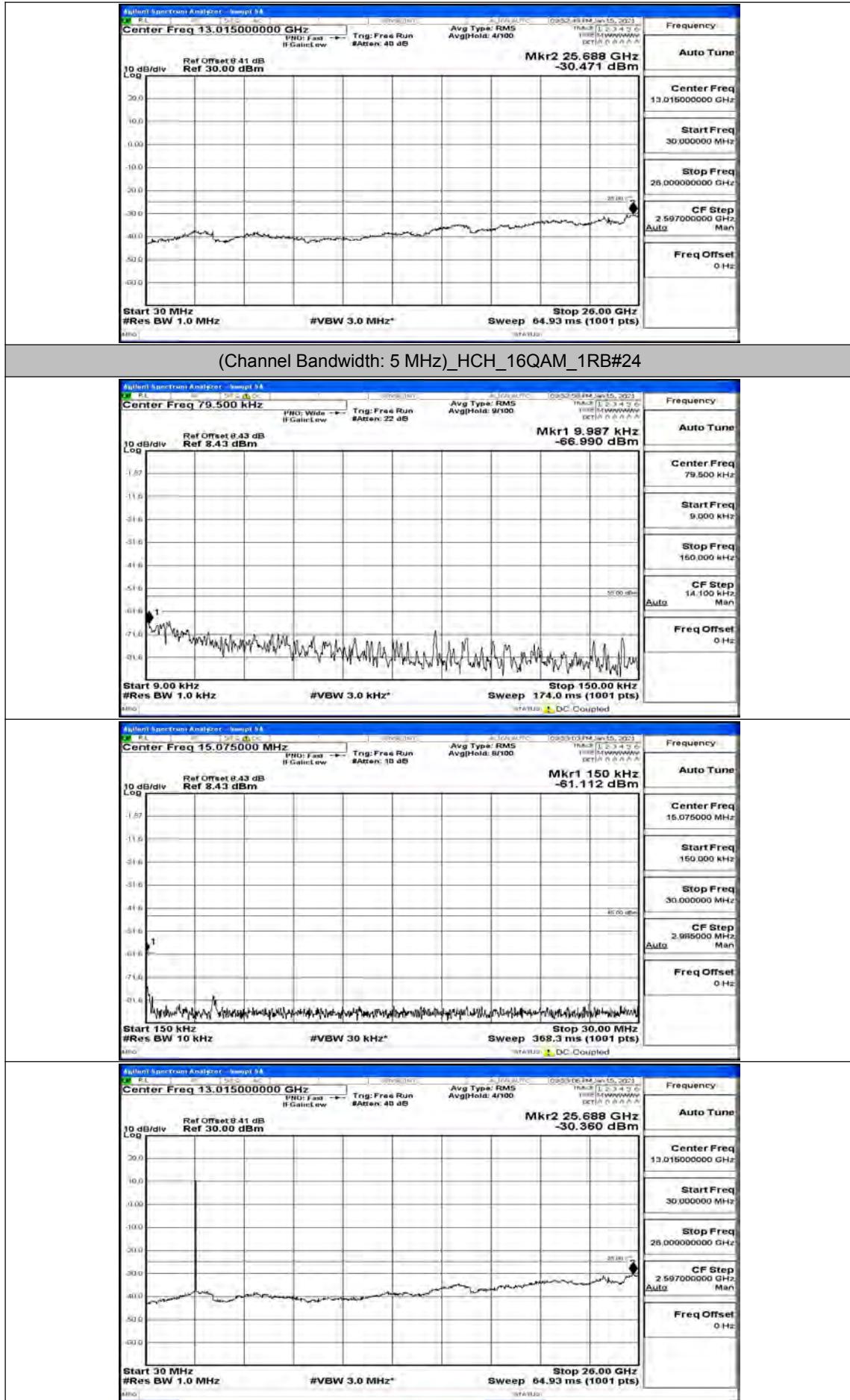
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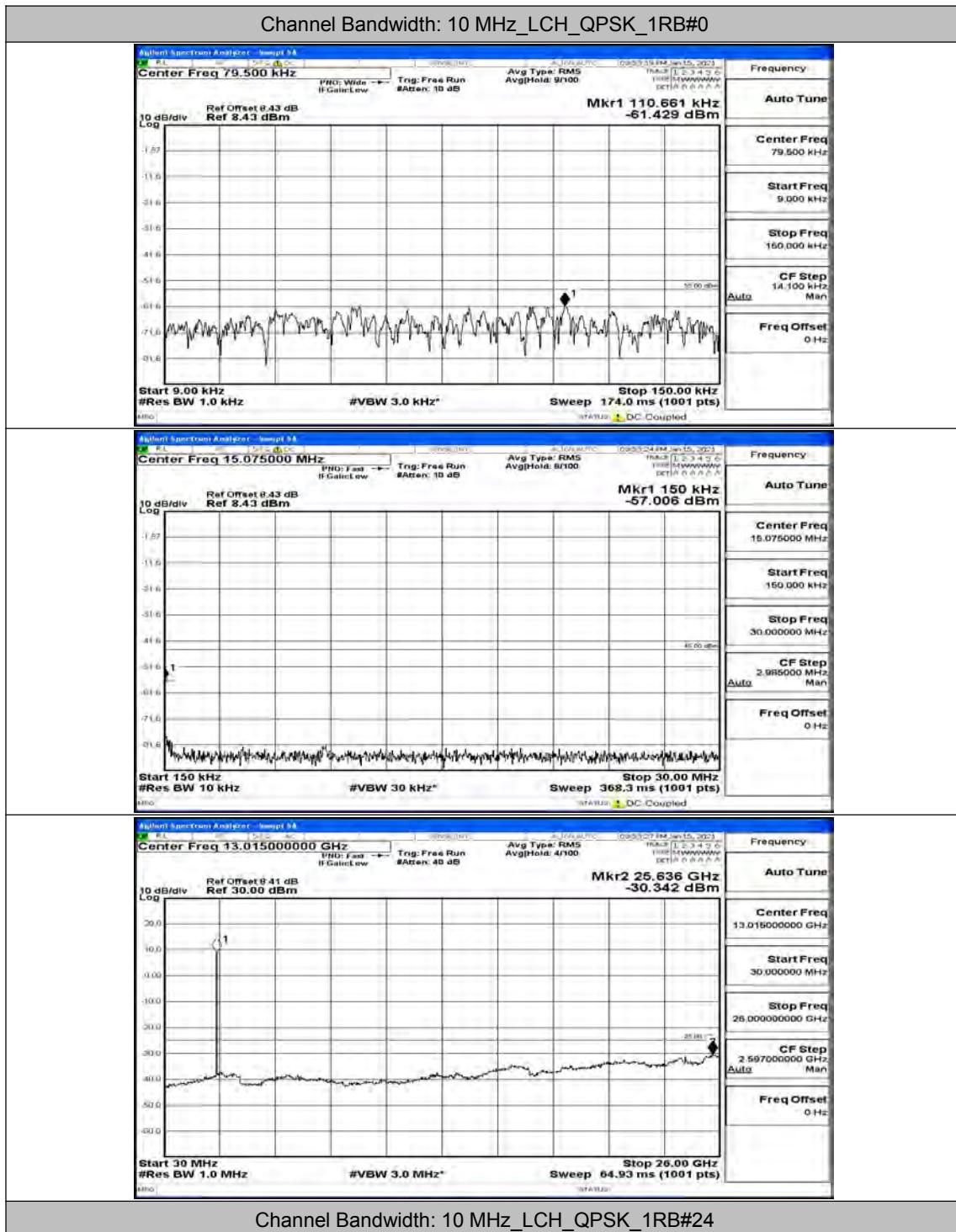
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

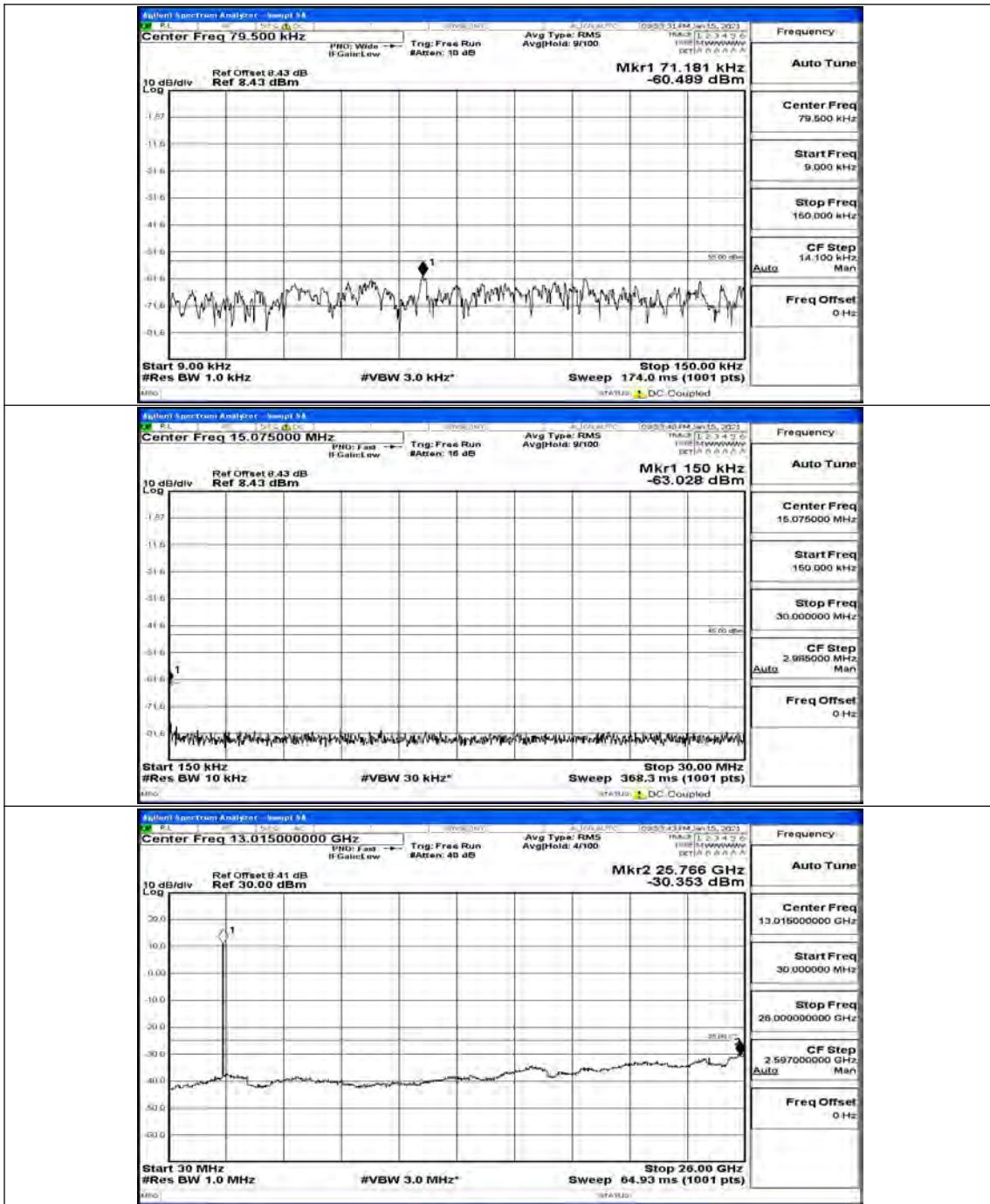




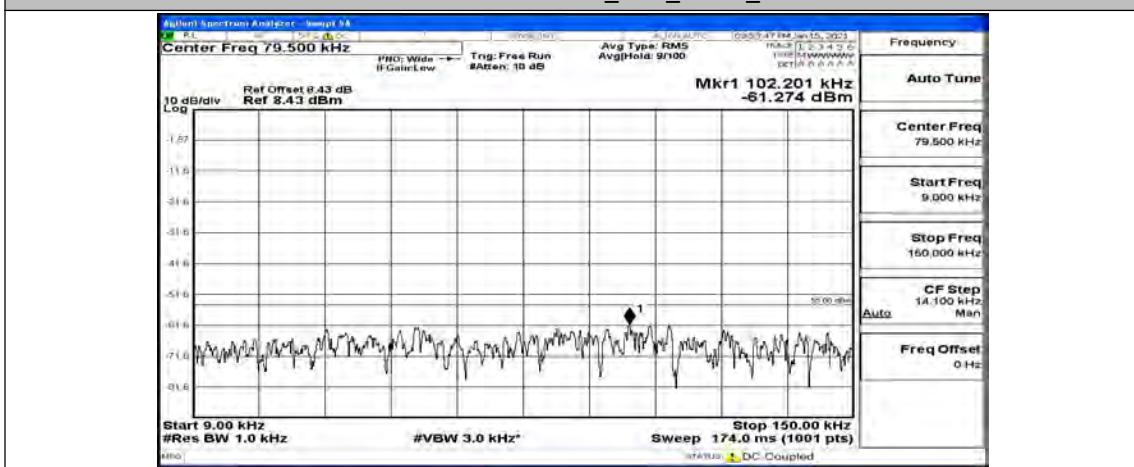


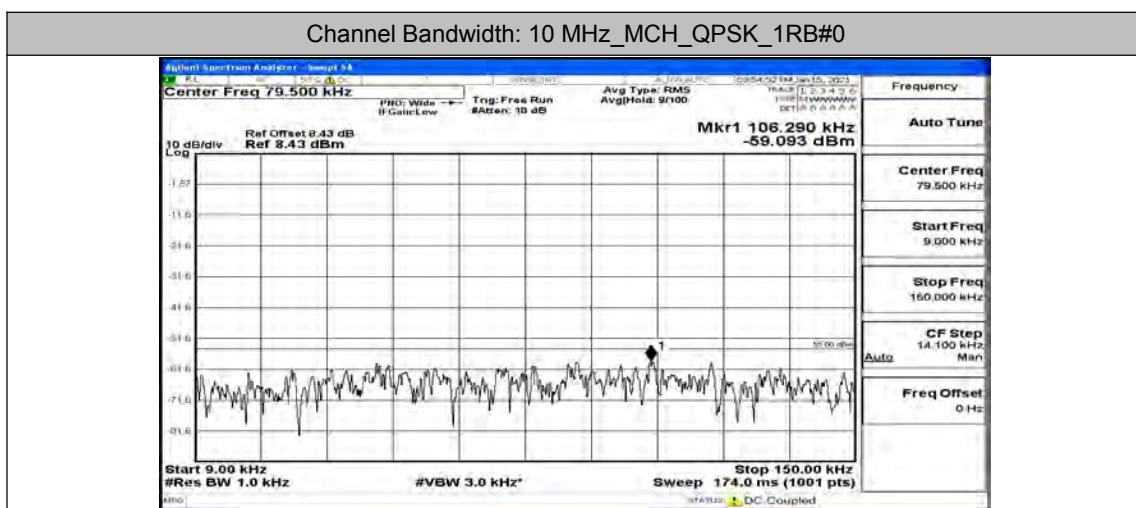
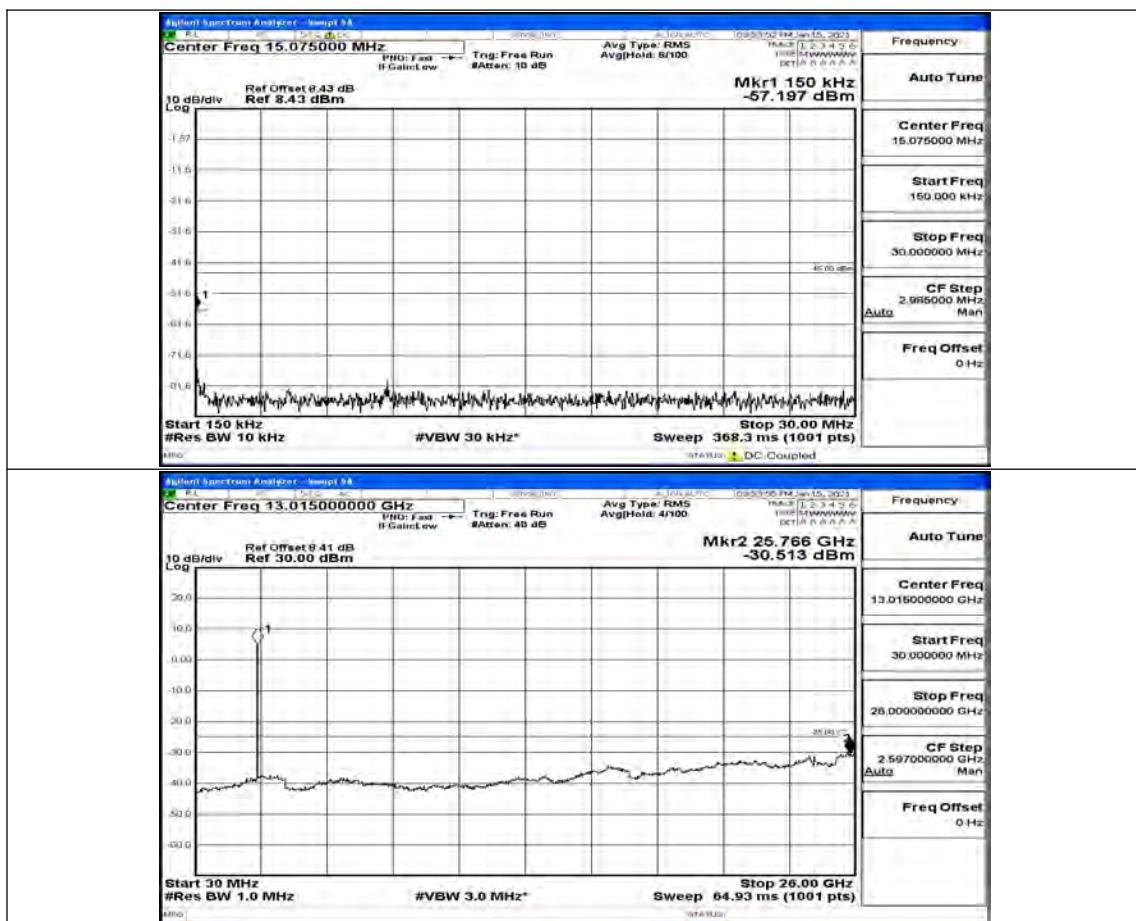
Channel Bandwidth: 10 MHz

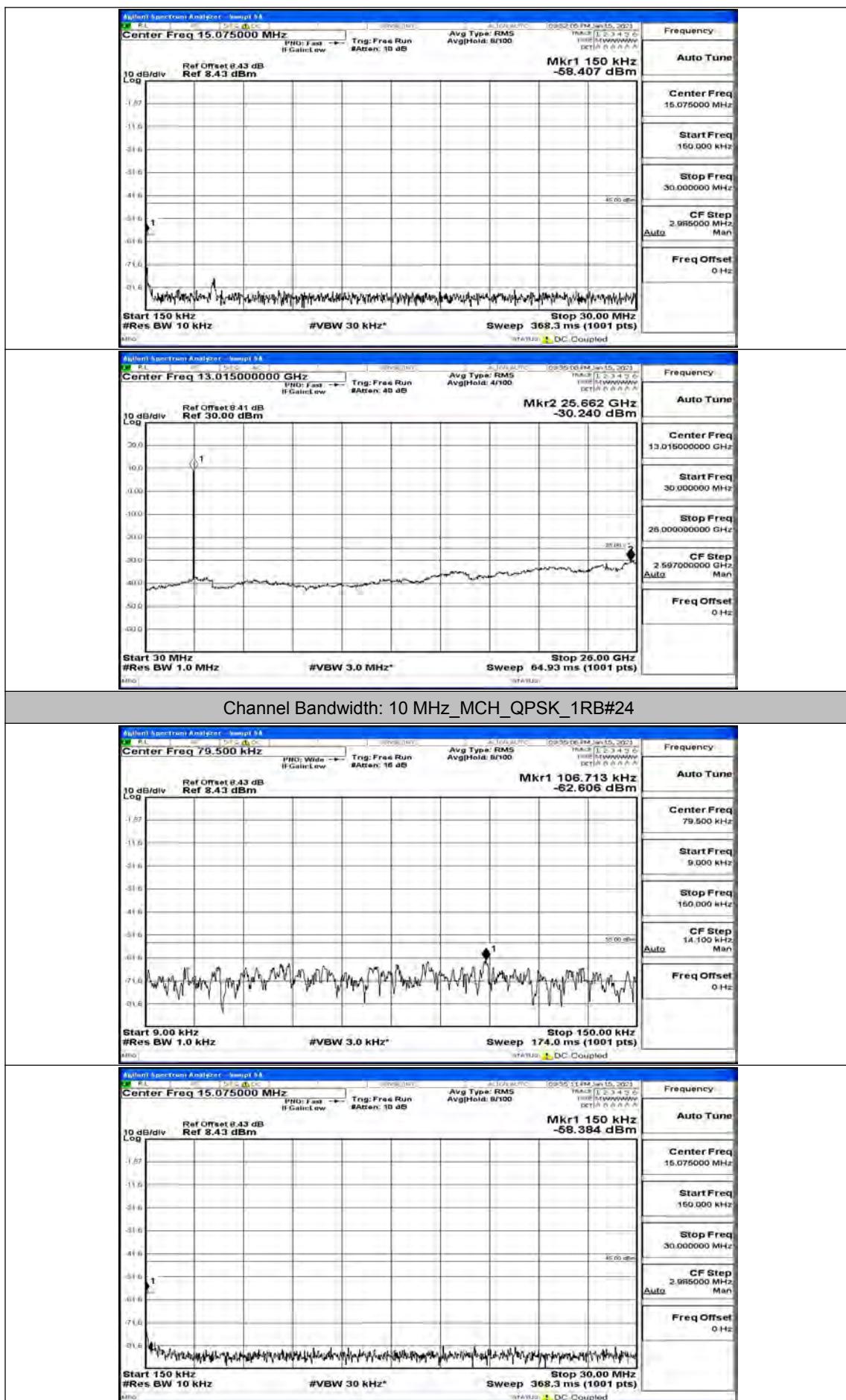


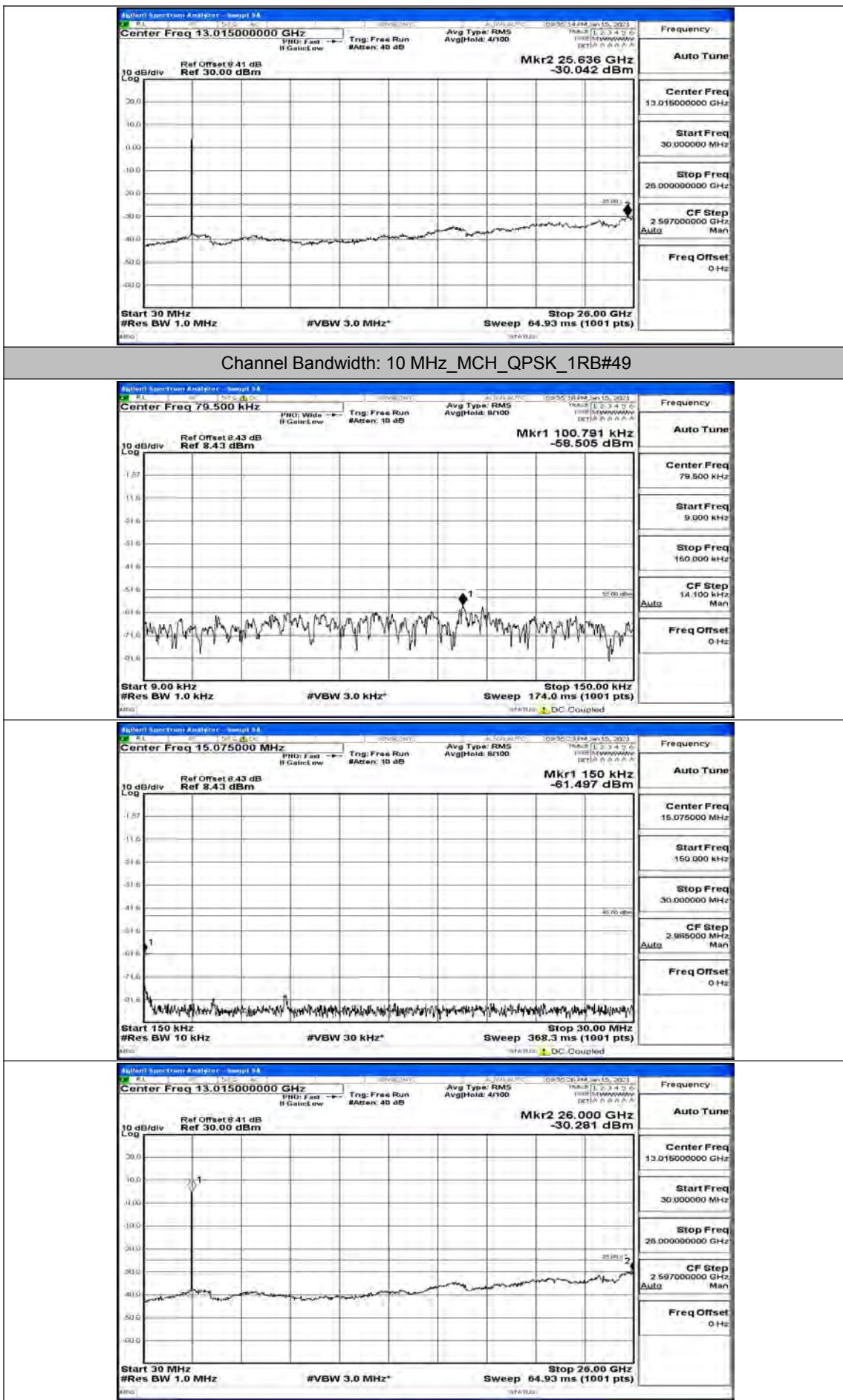


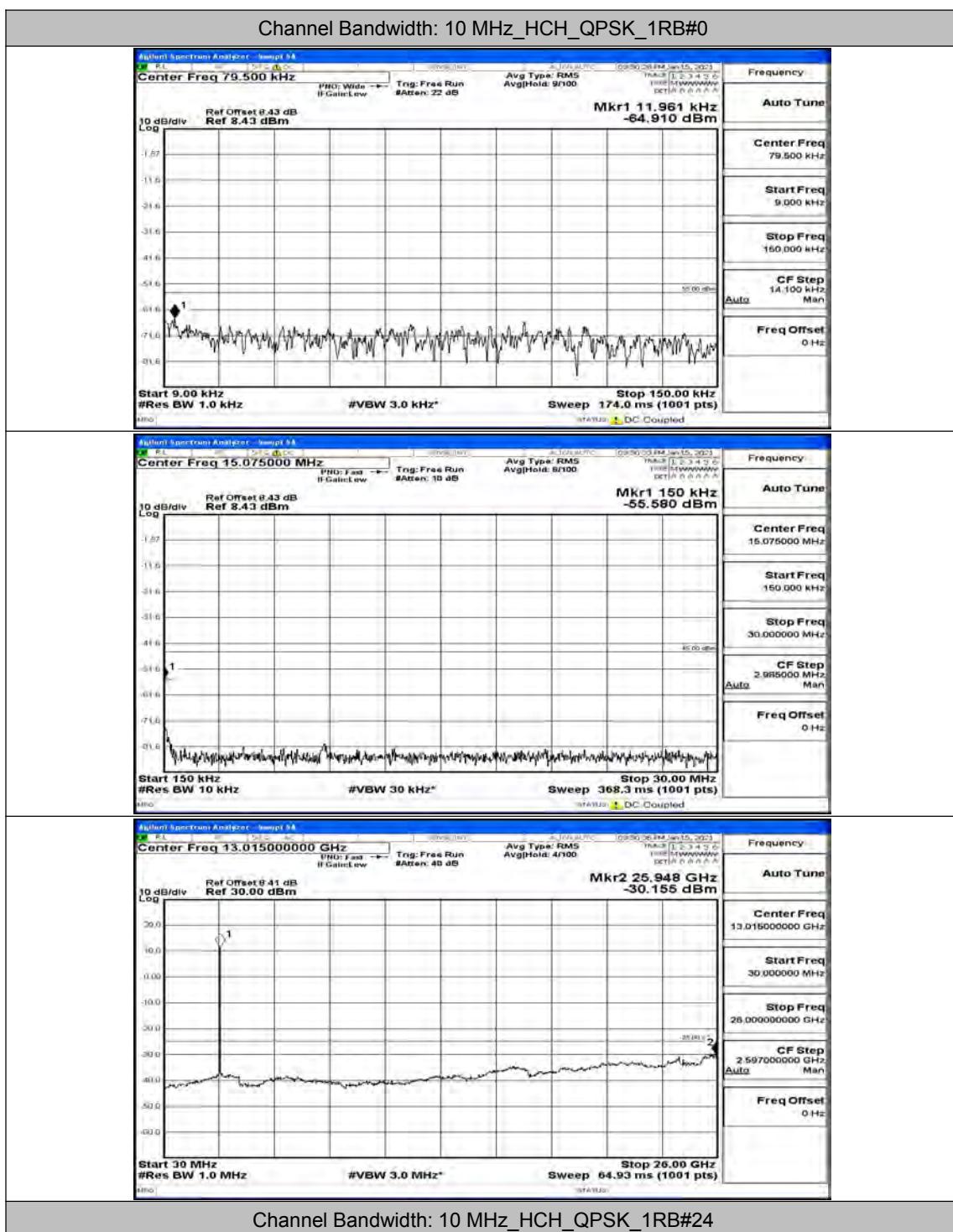
Channel Bandwidth: 10 MHz LCH QPSK 1RB#49

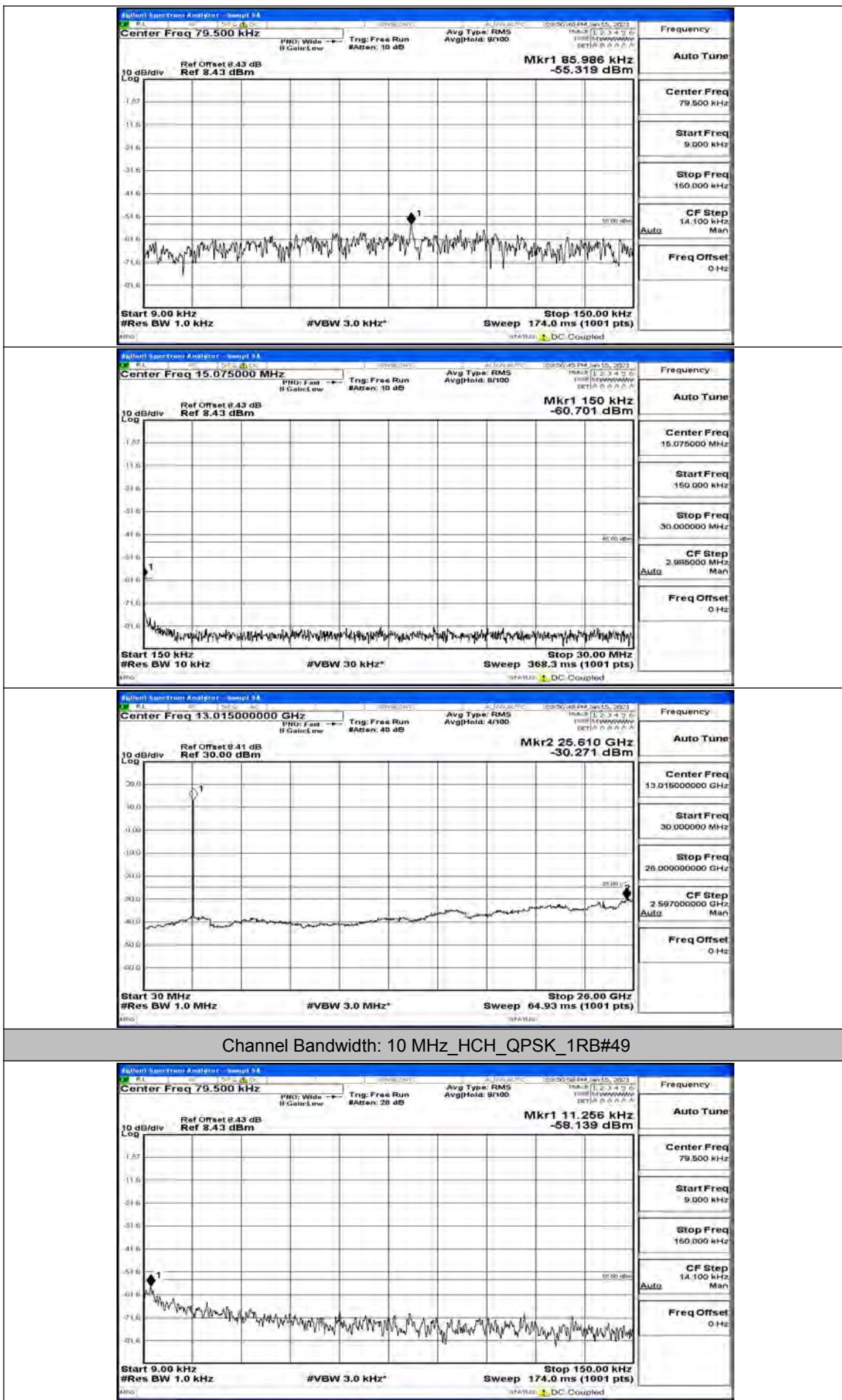


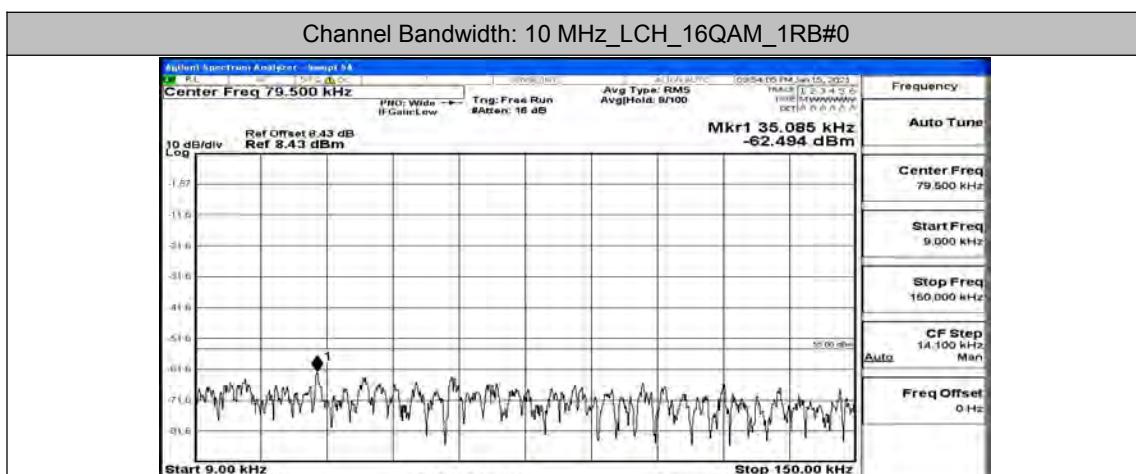
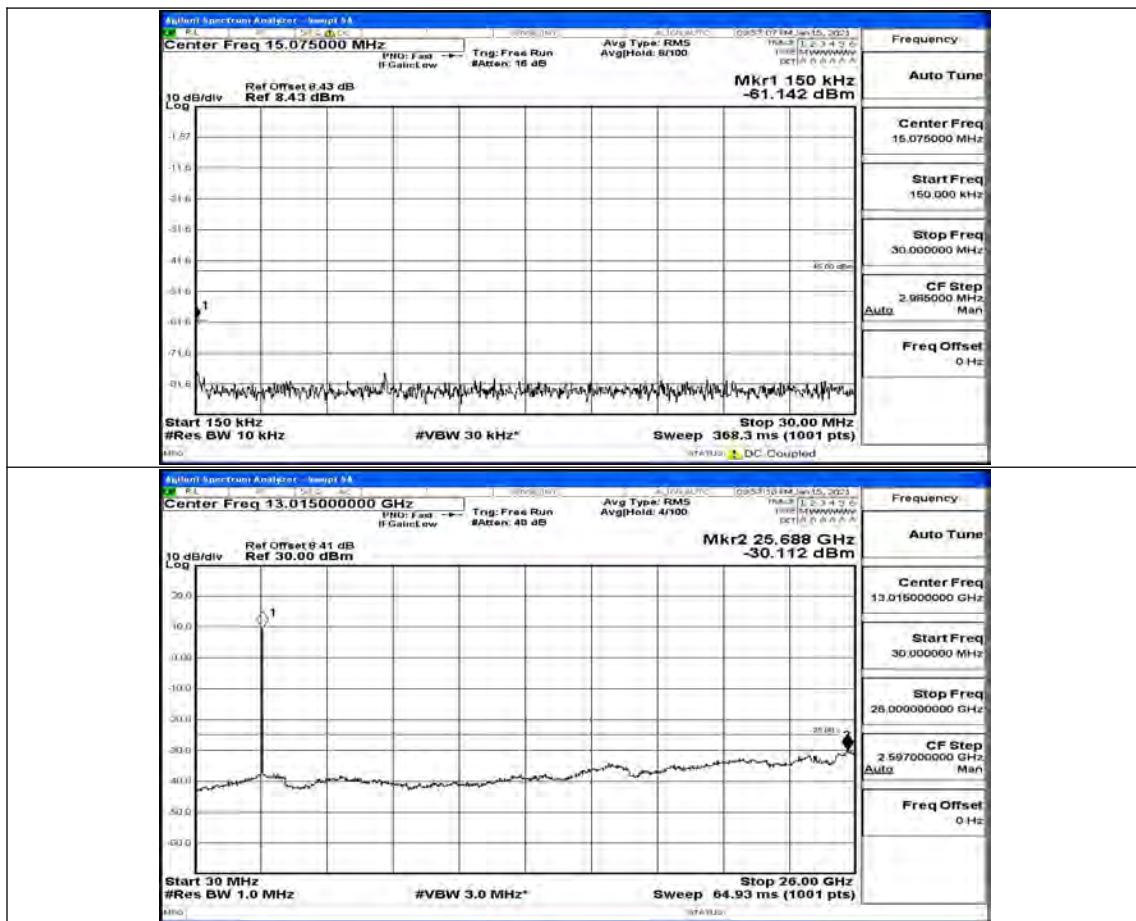


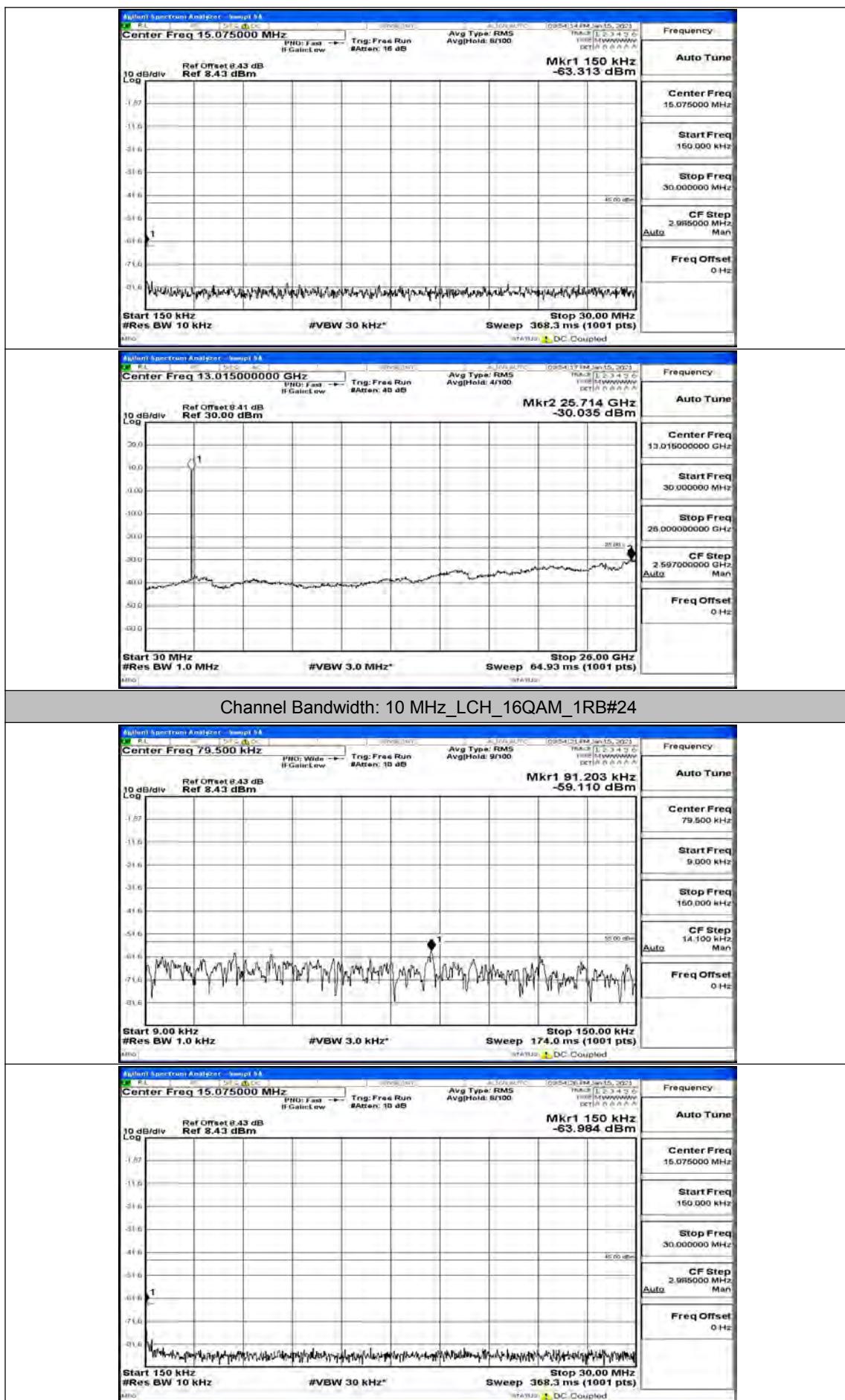


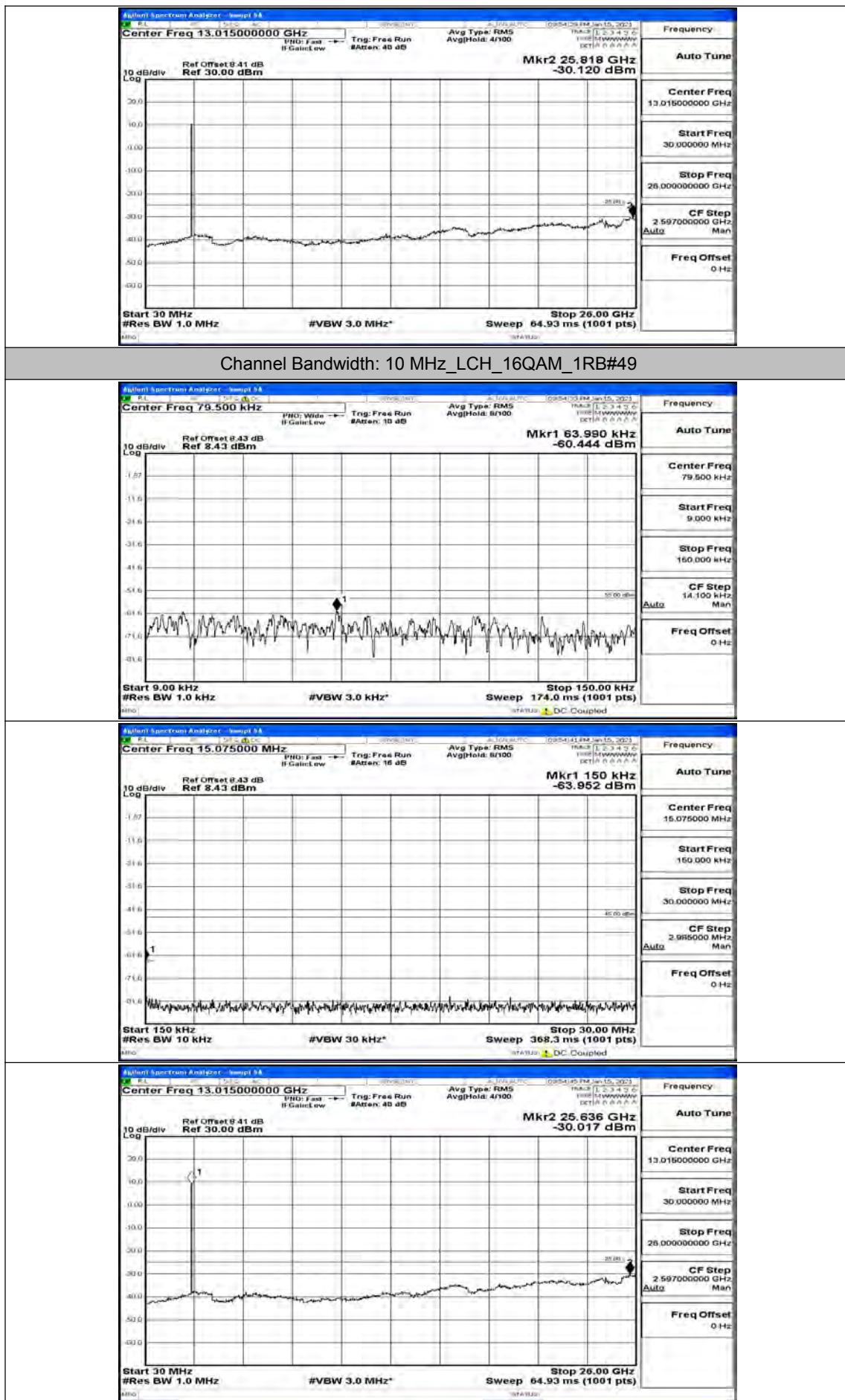




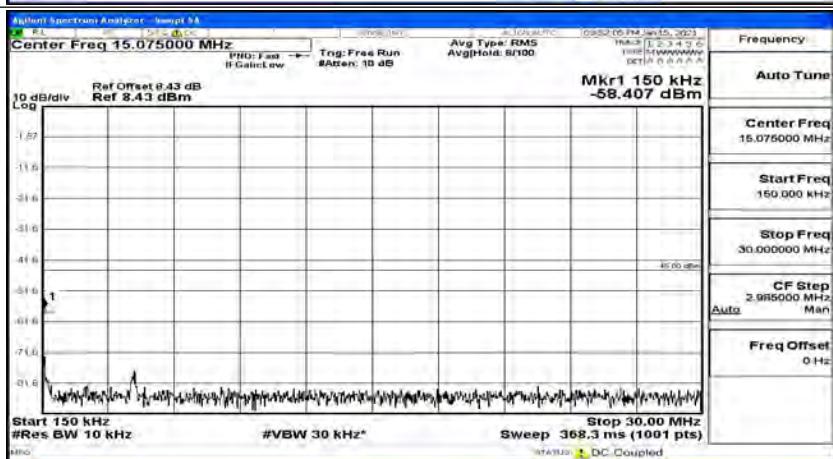
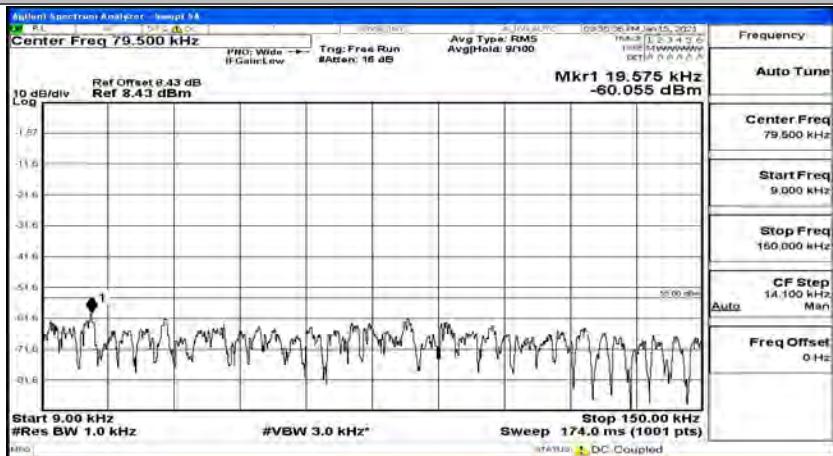




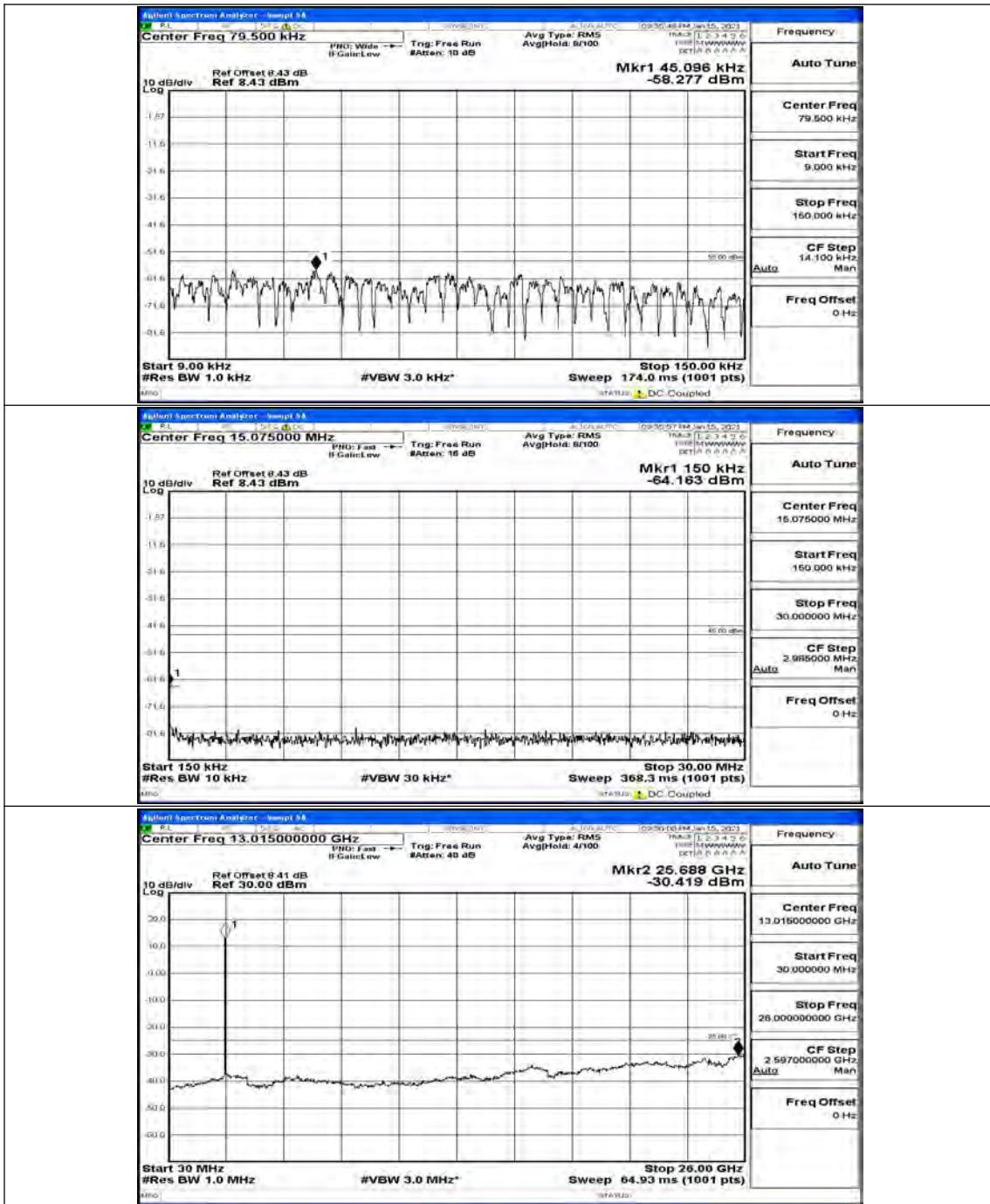




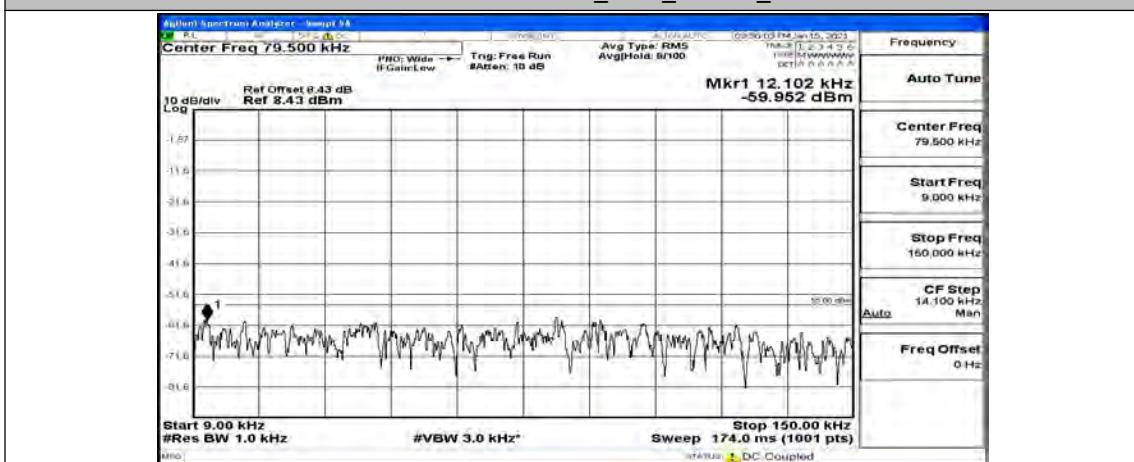
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

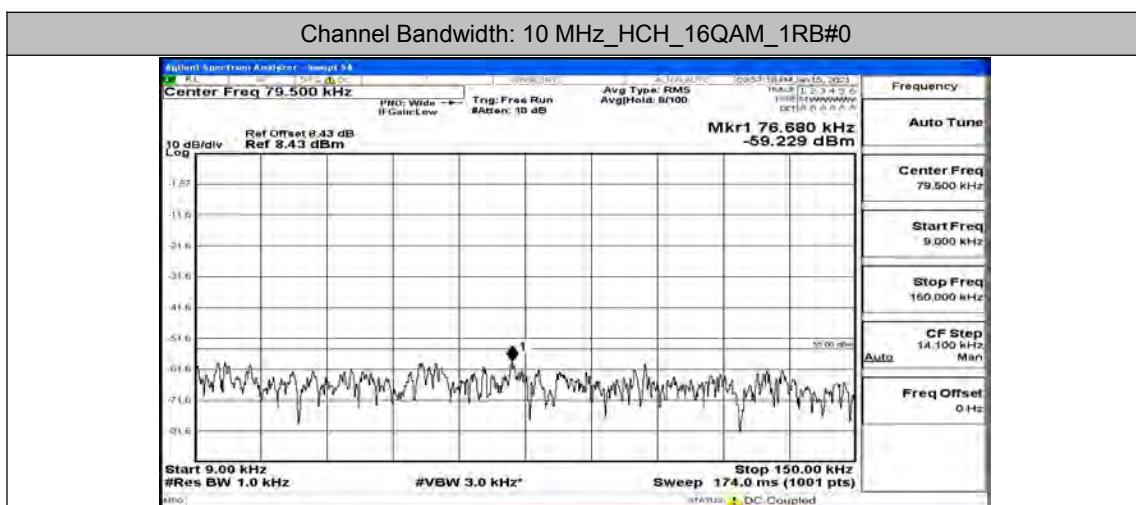
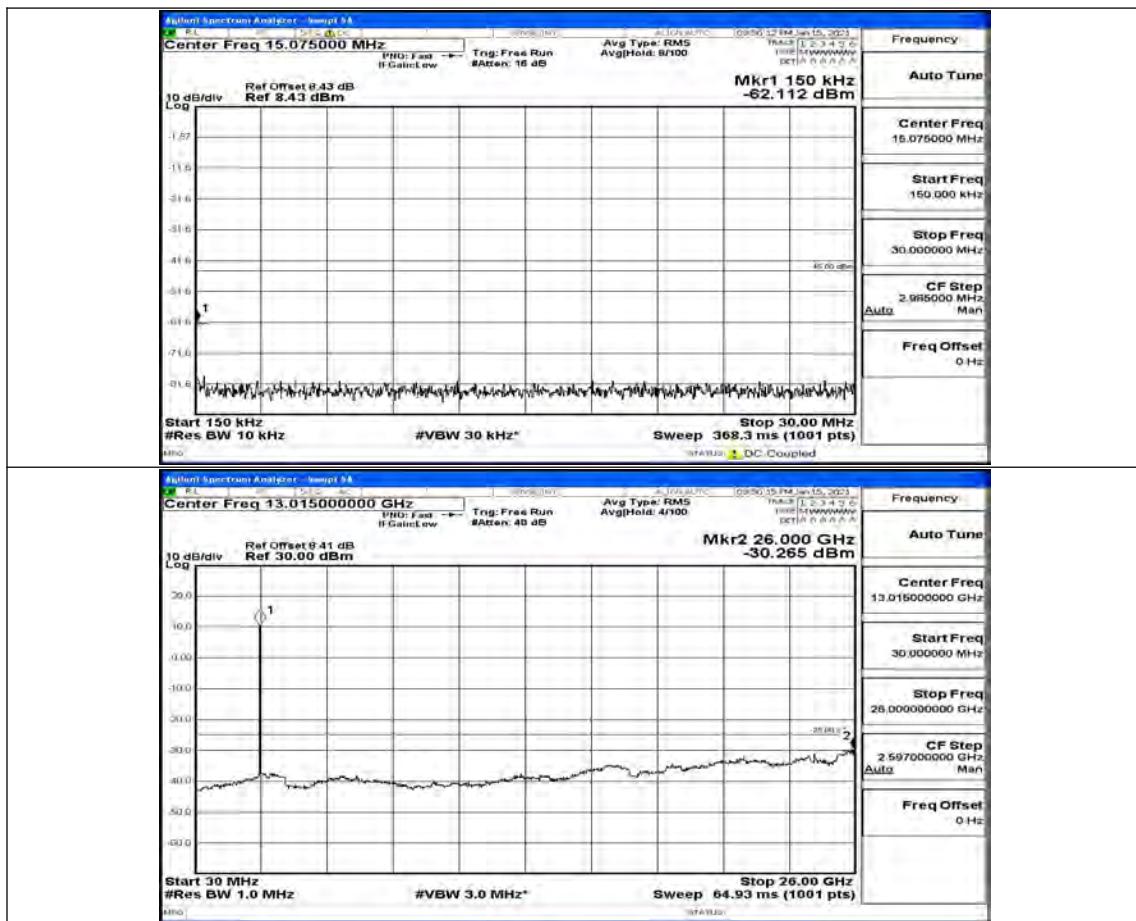


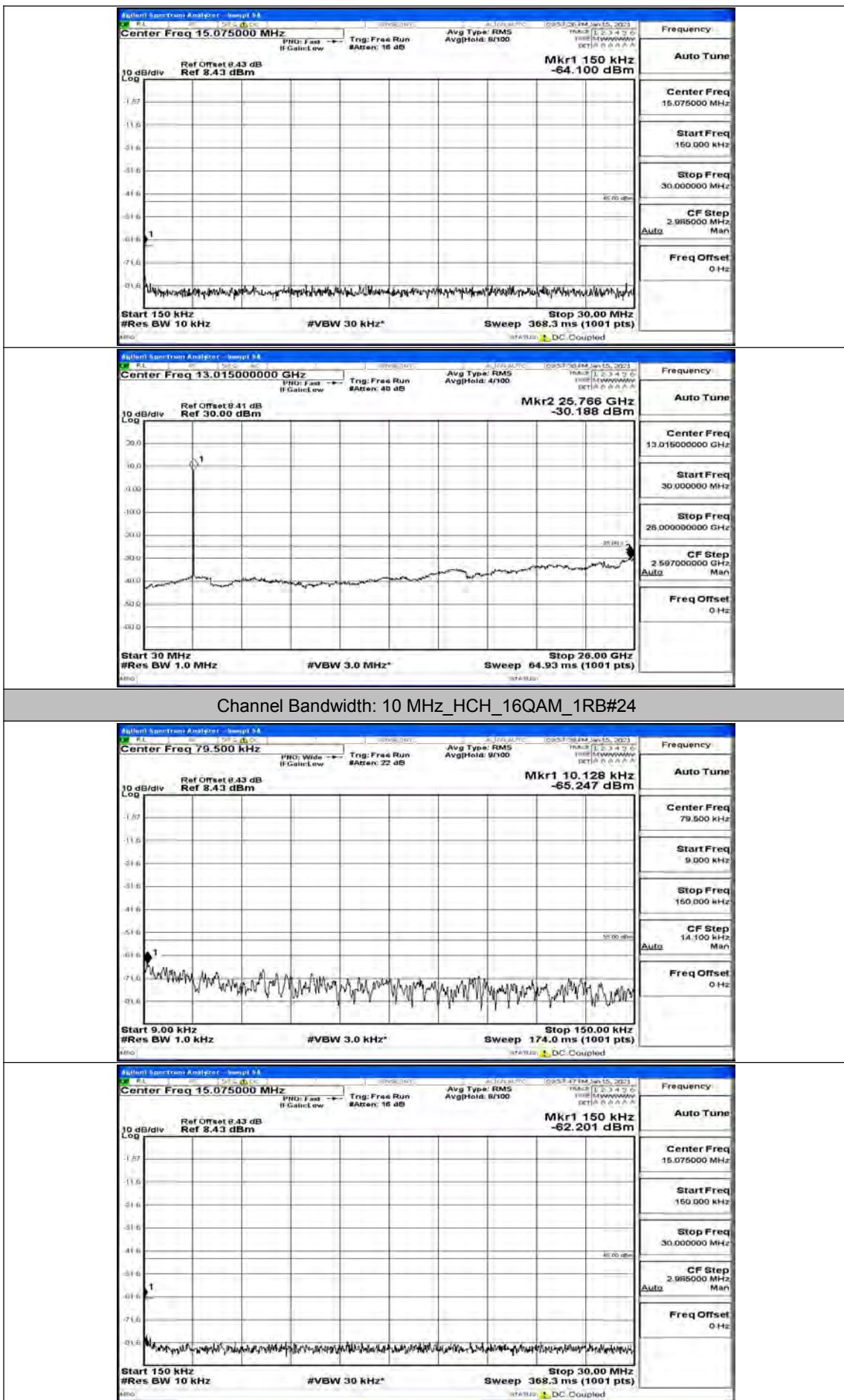
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

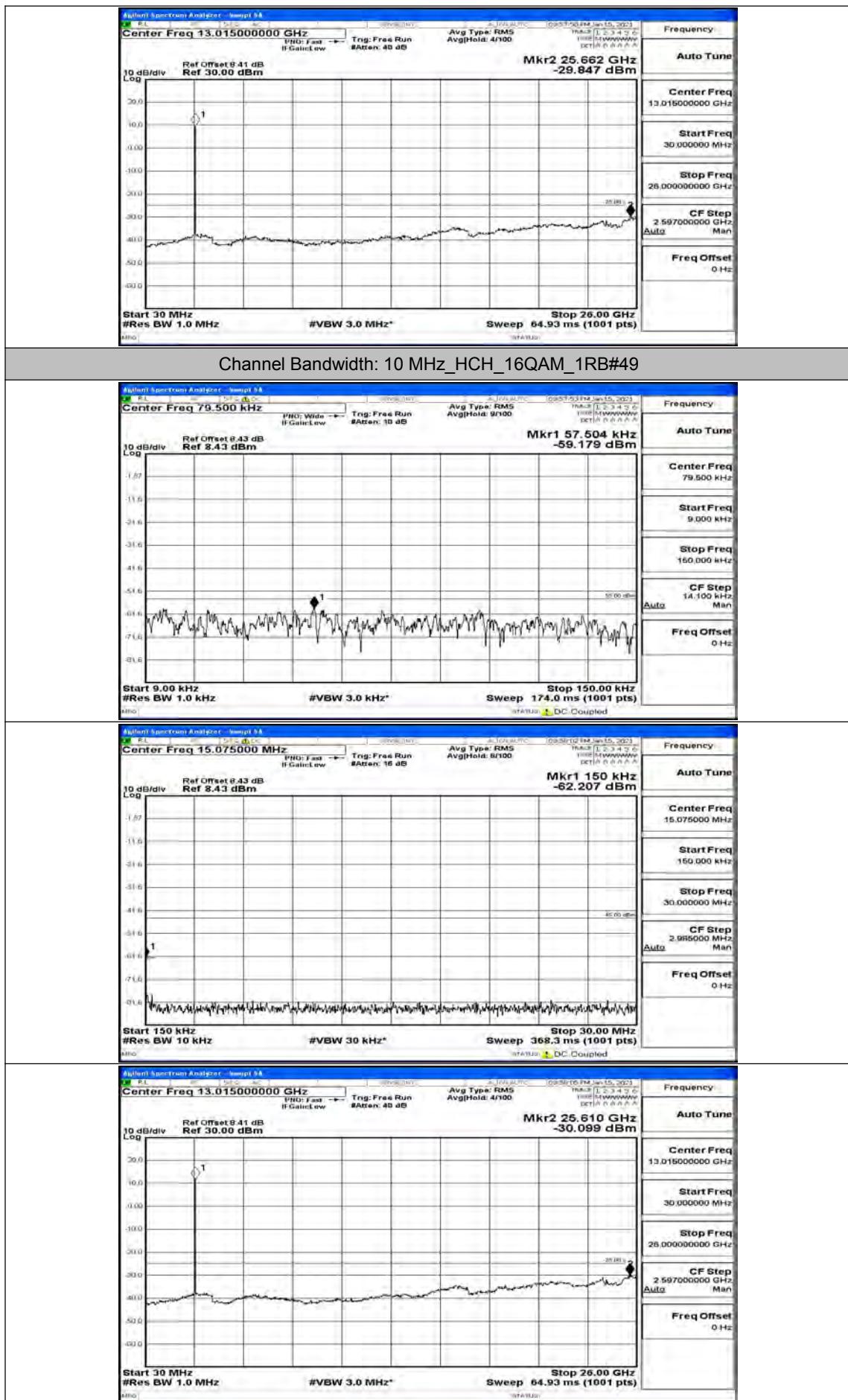


Channel Bandwidth: 10 MHz MCH 16QAM 1RB#49



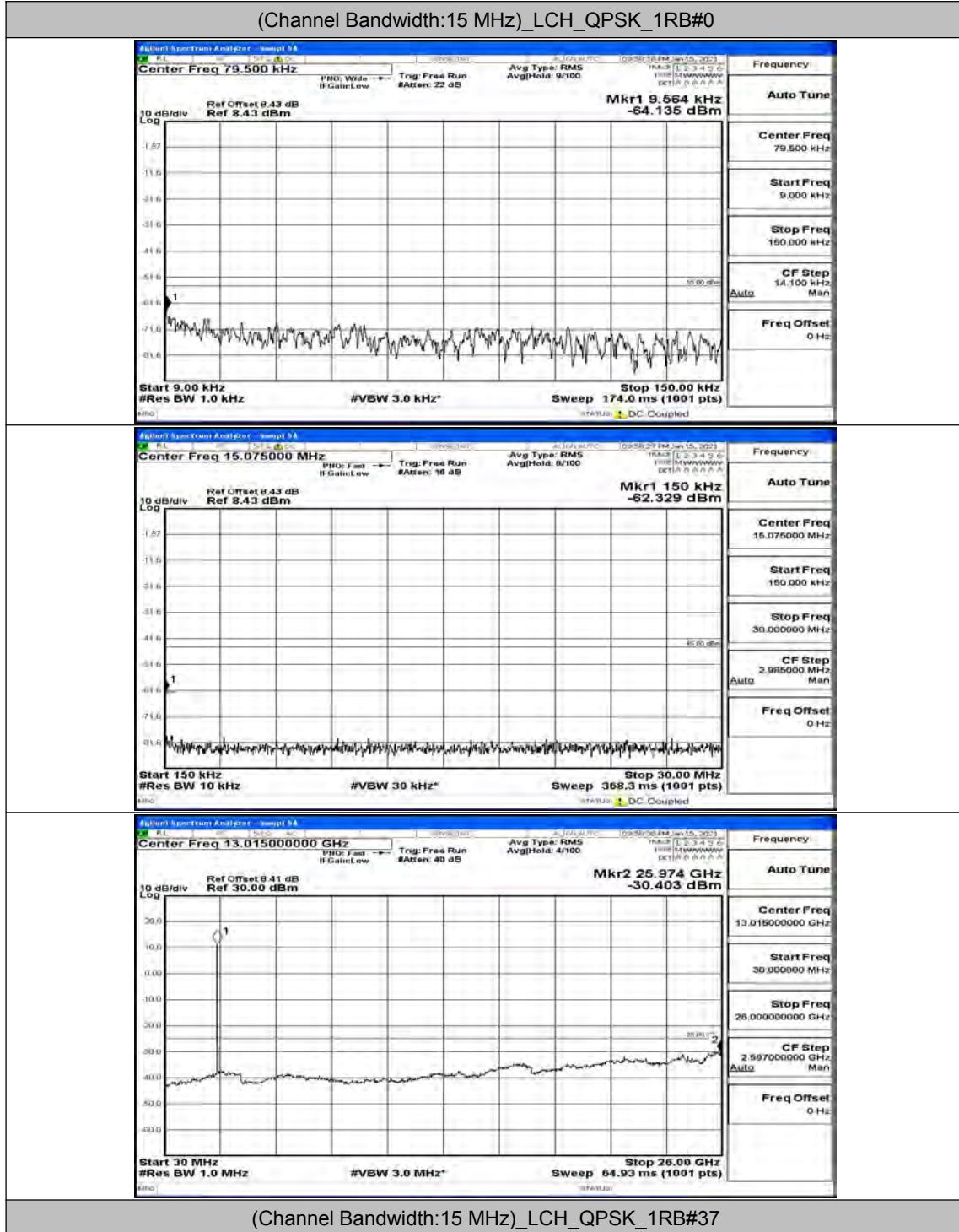




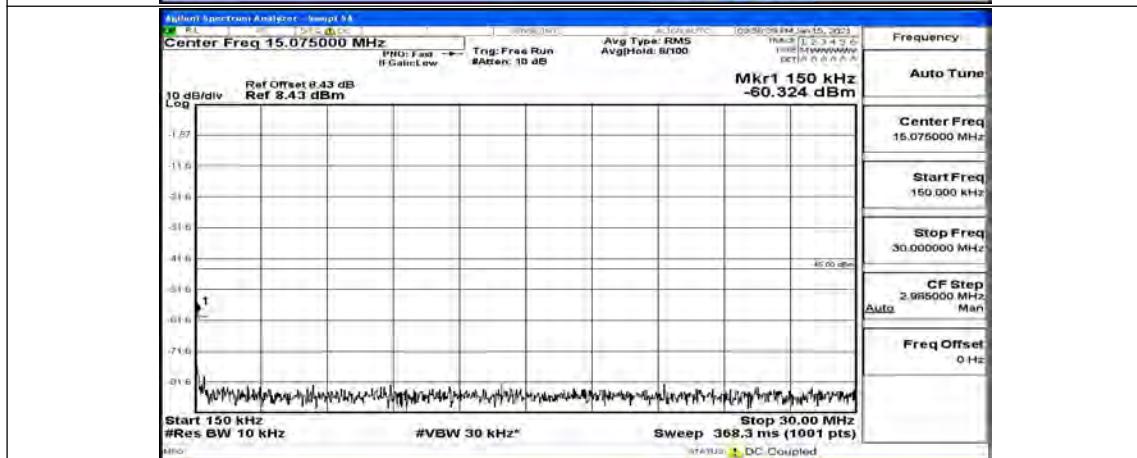
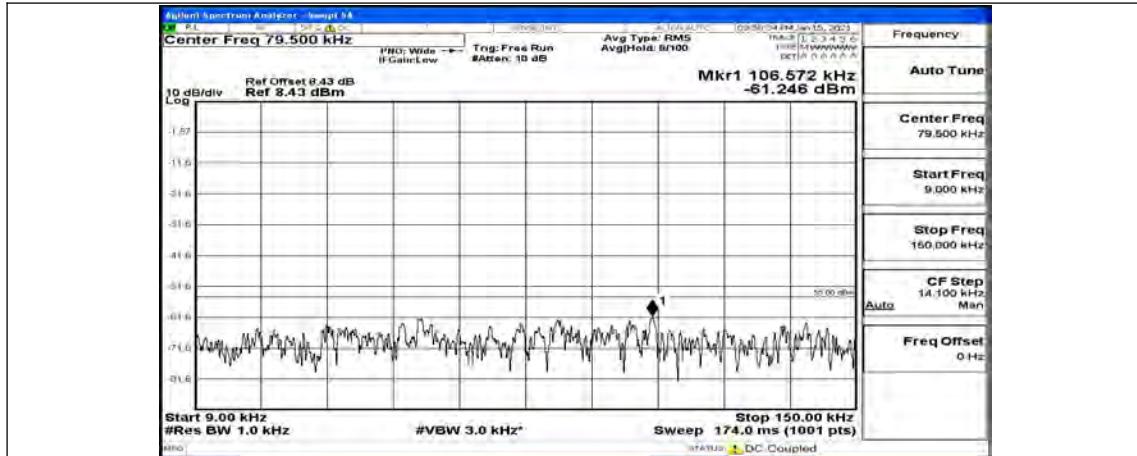


Channel Bandwidth: 15 MHz

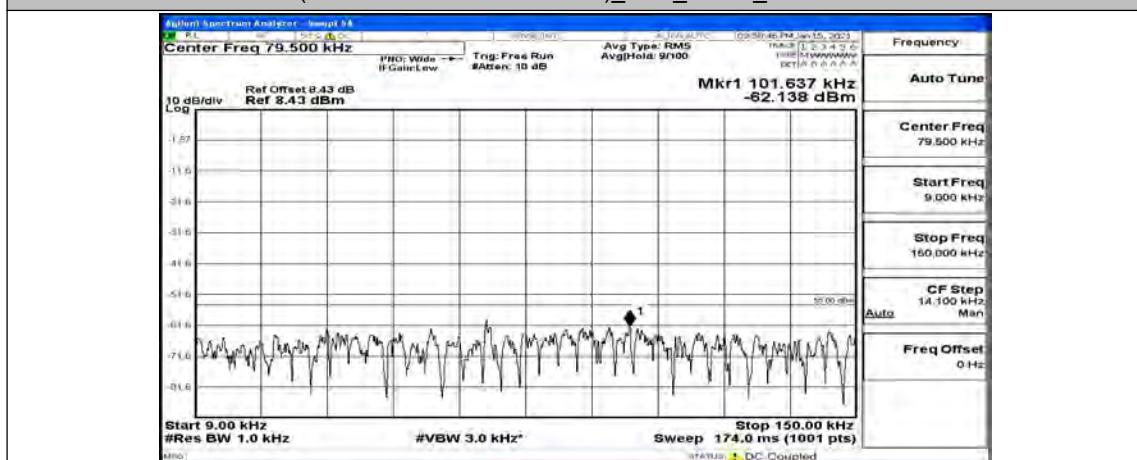
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0

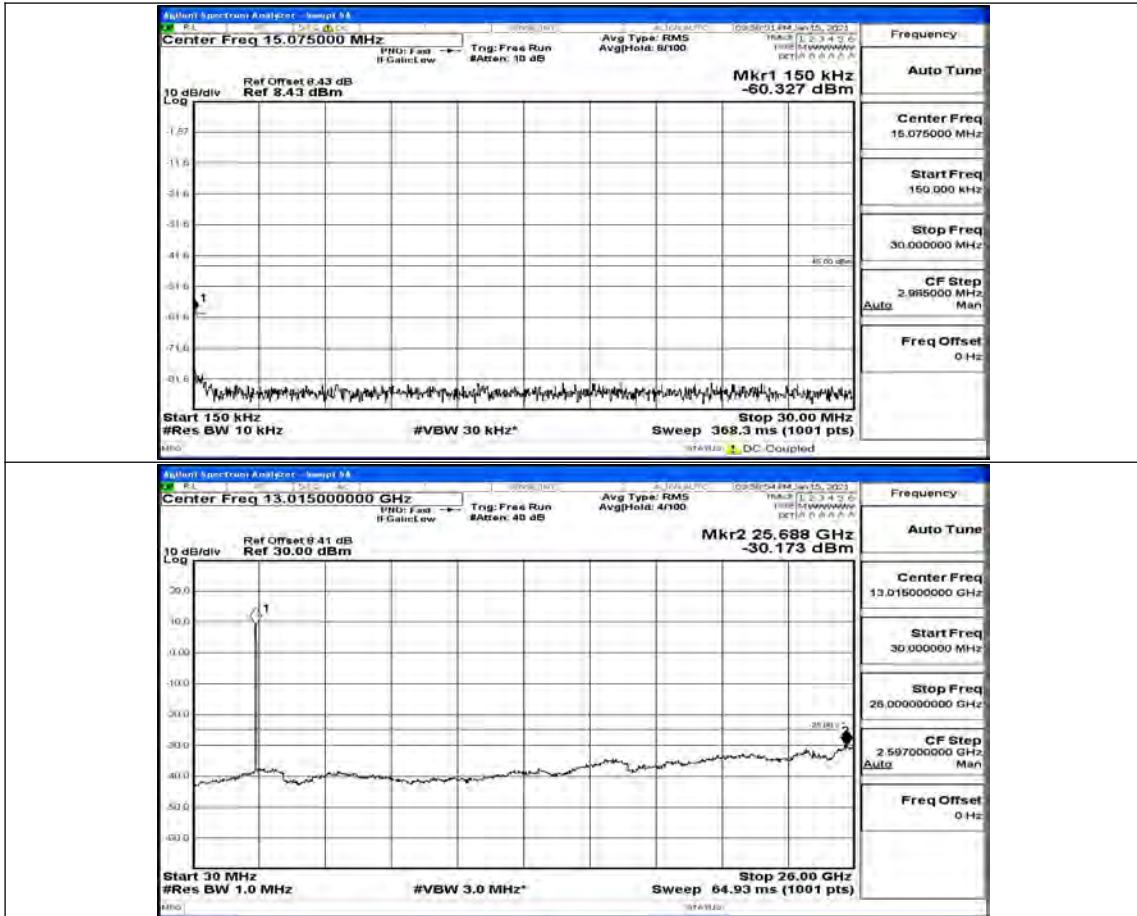


(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37

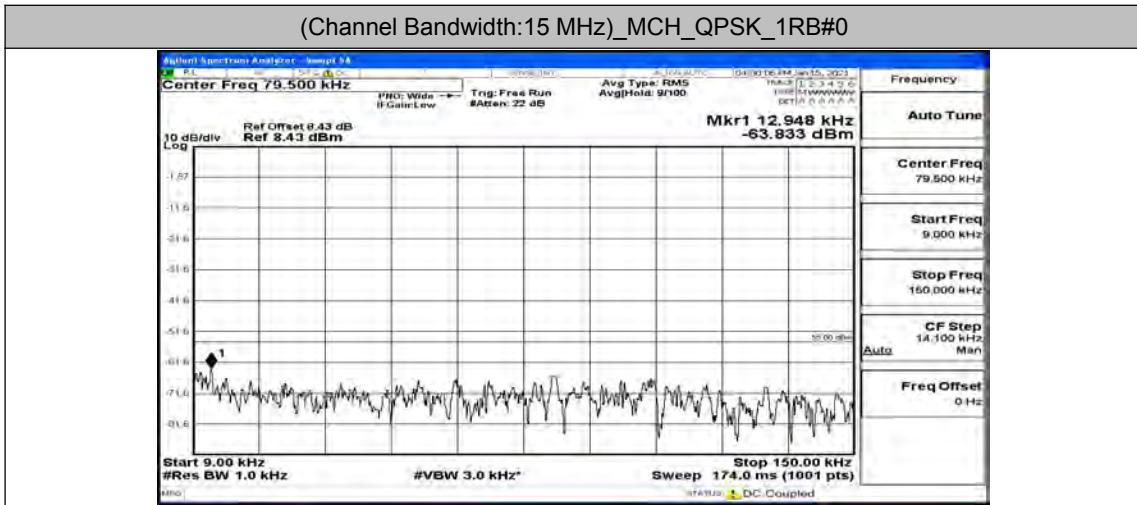


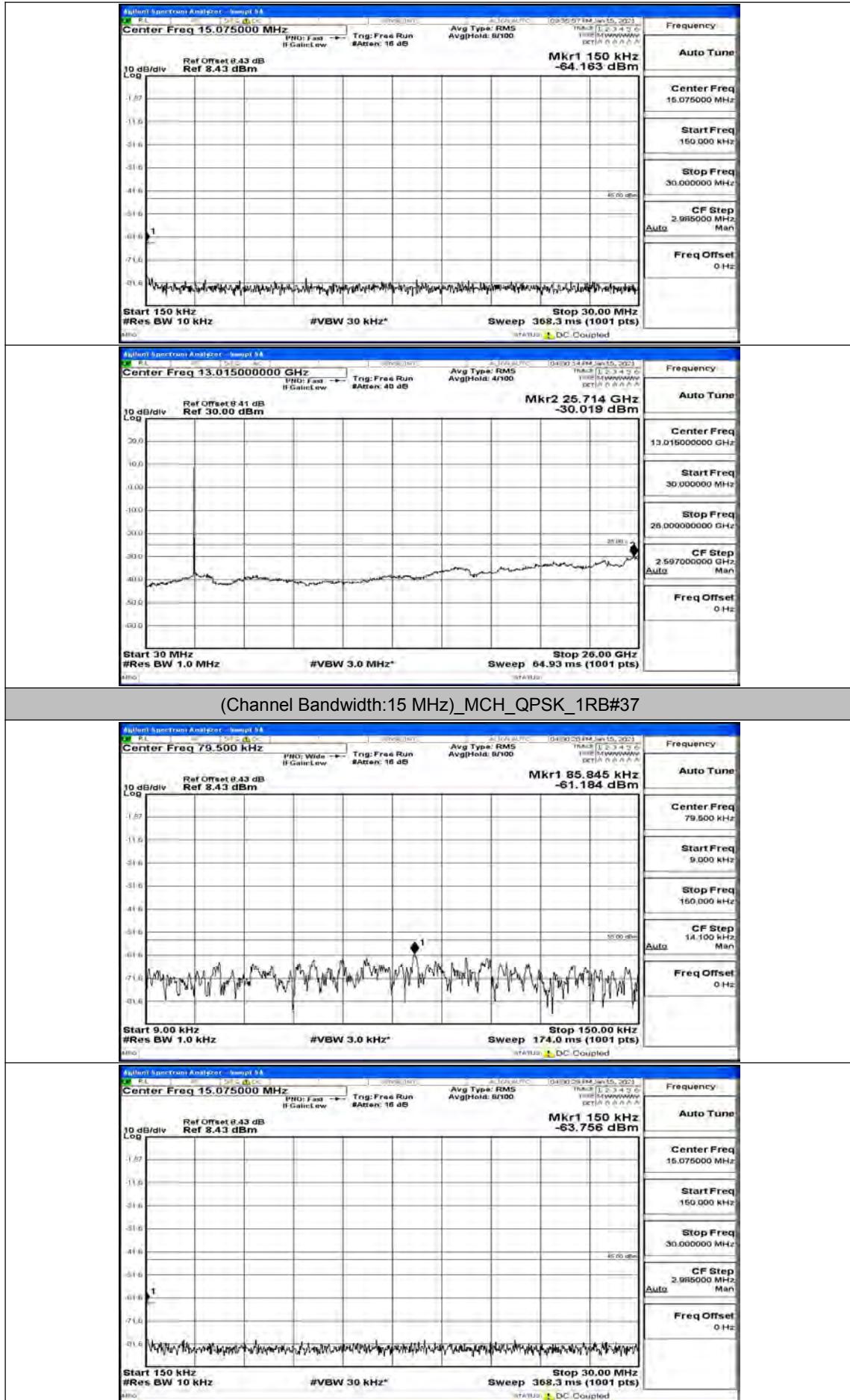
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74

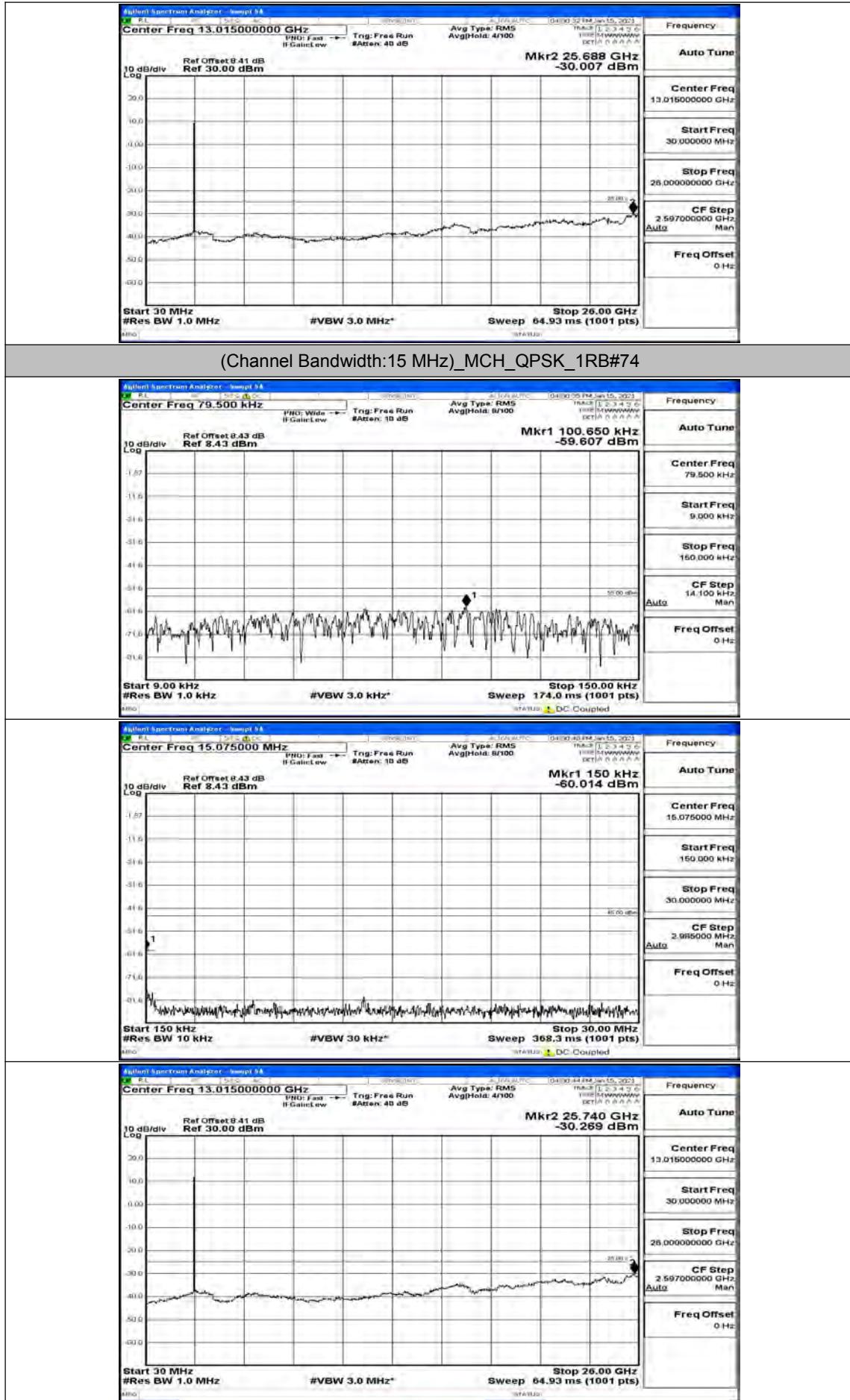




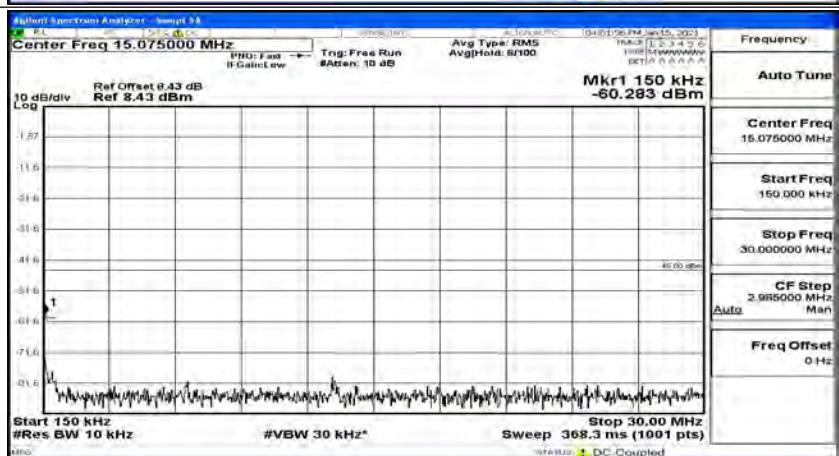
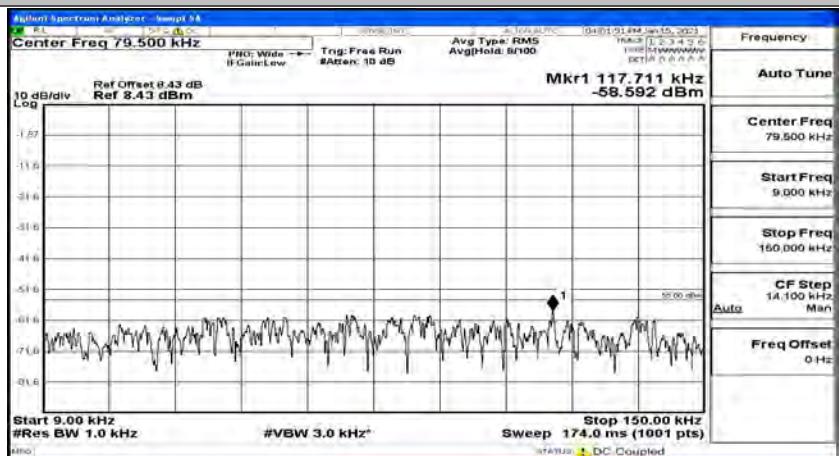
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0



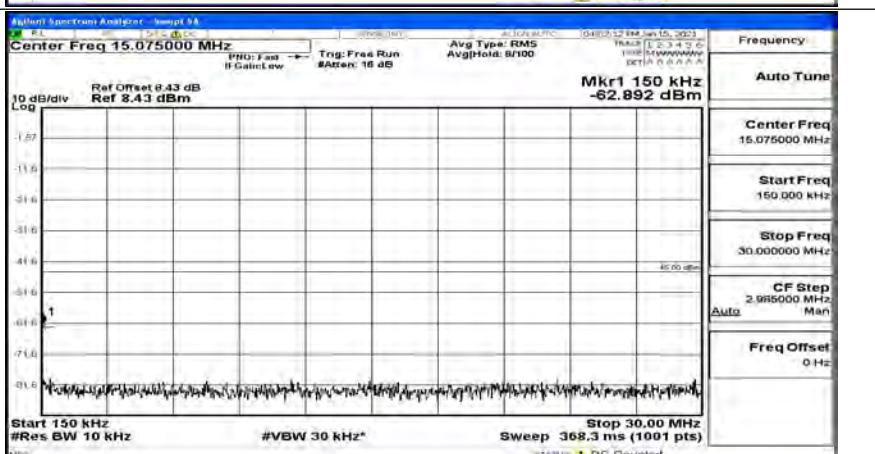
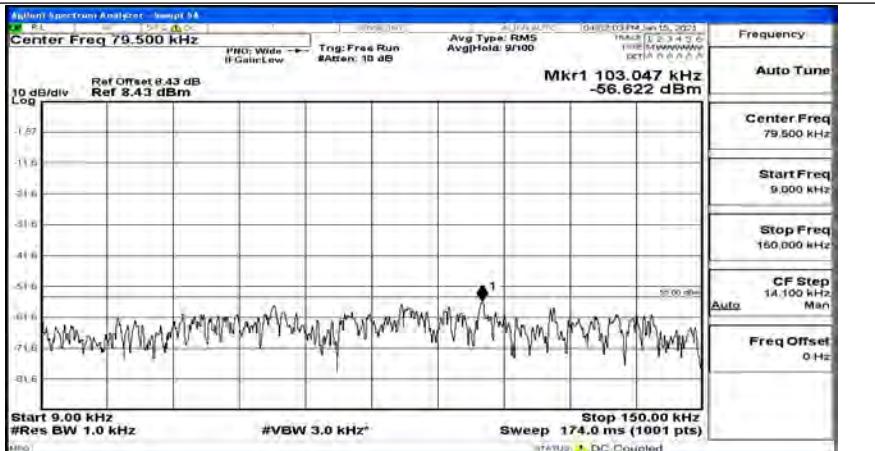




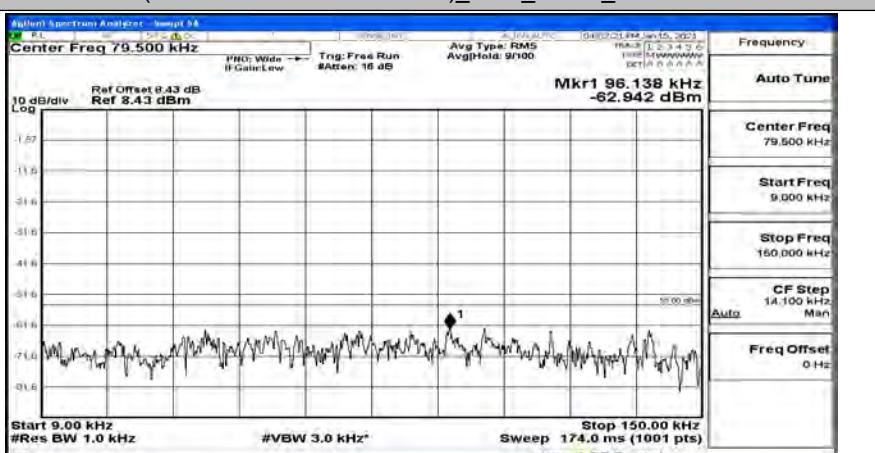
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

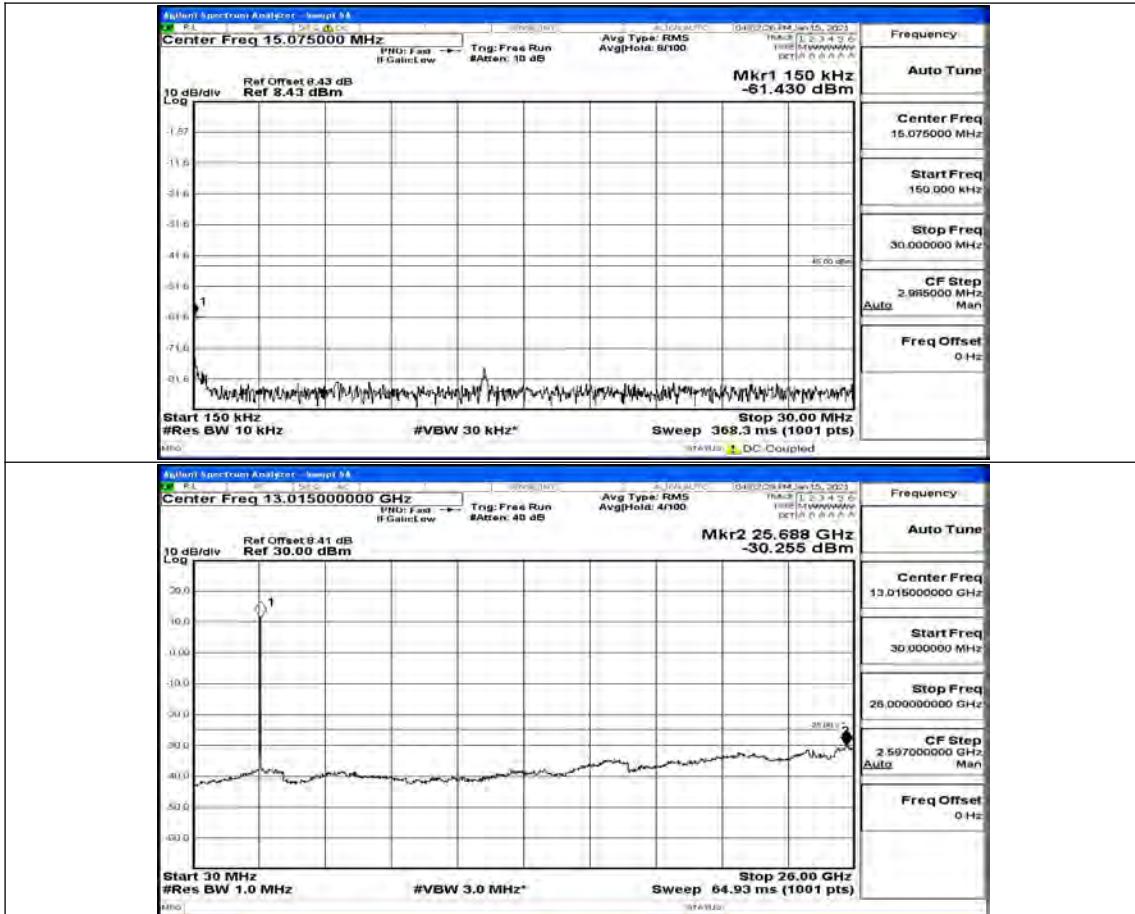


(Channel Bandwidth:15 MHz) HCH QPSK 1RB#37

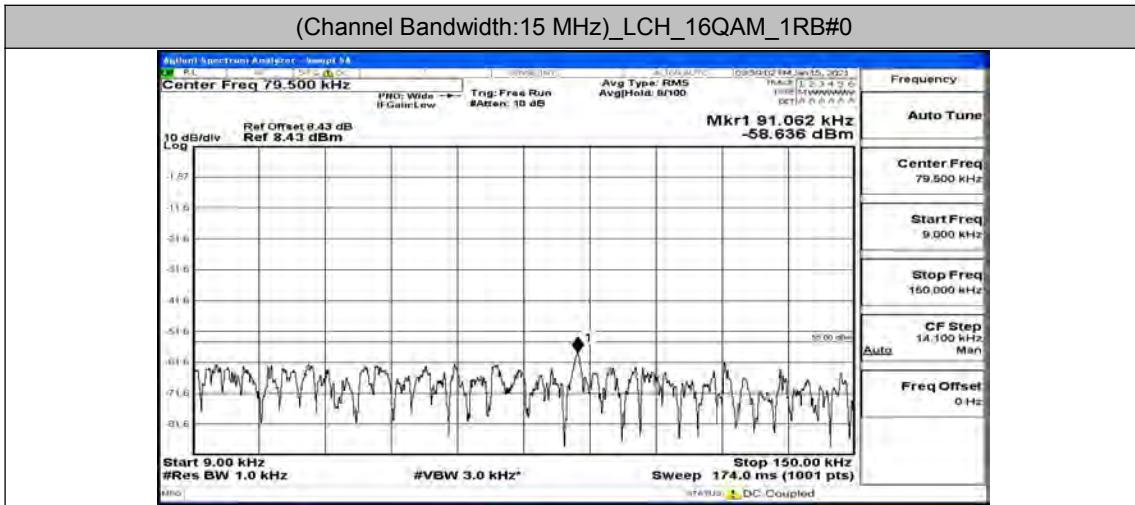


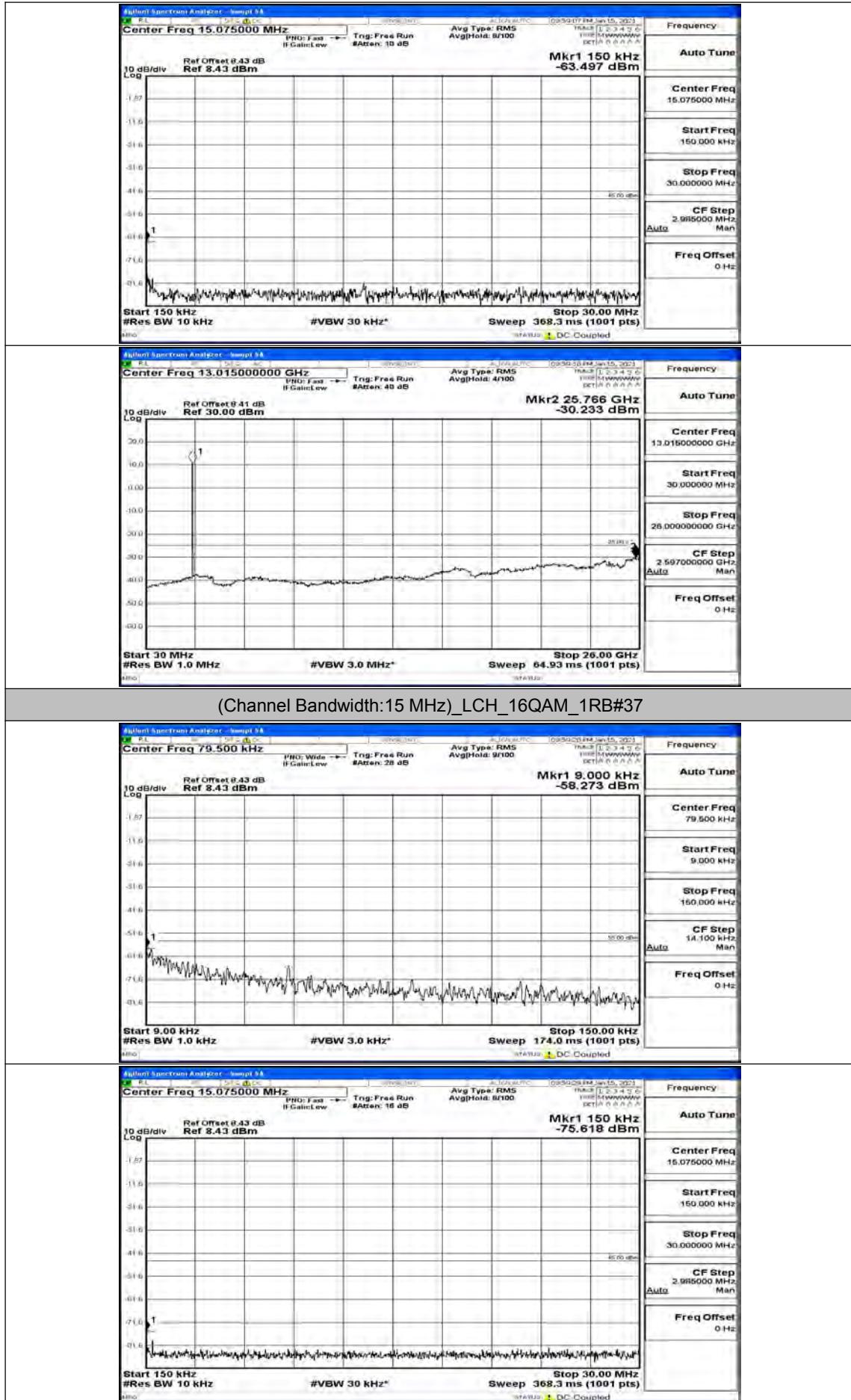
(Channel Bandwidth:15 MHz) HCH QPSK 1RB#74

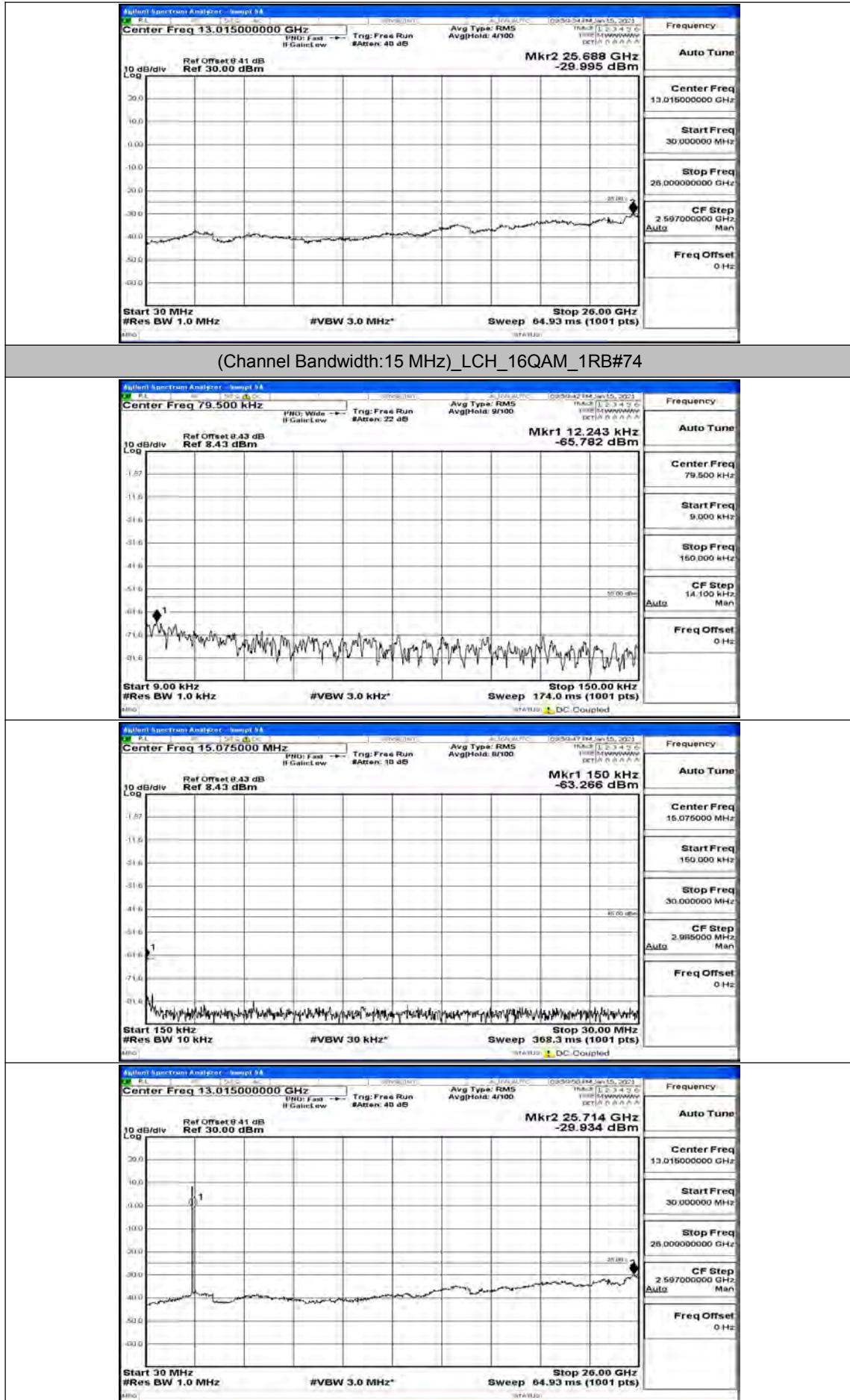




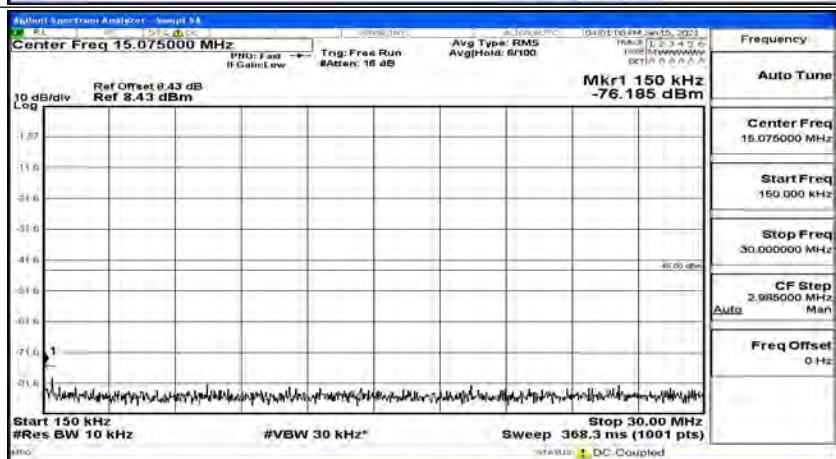
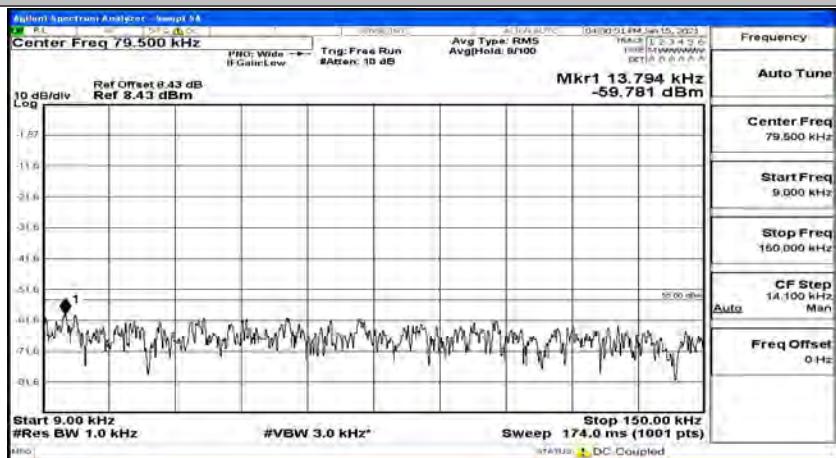
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0



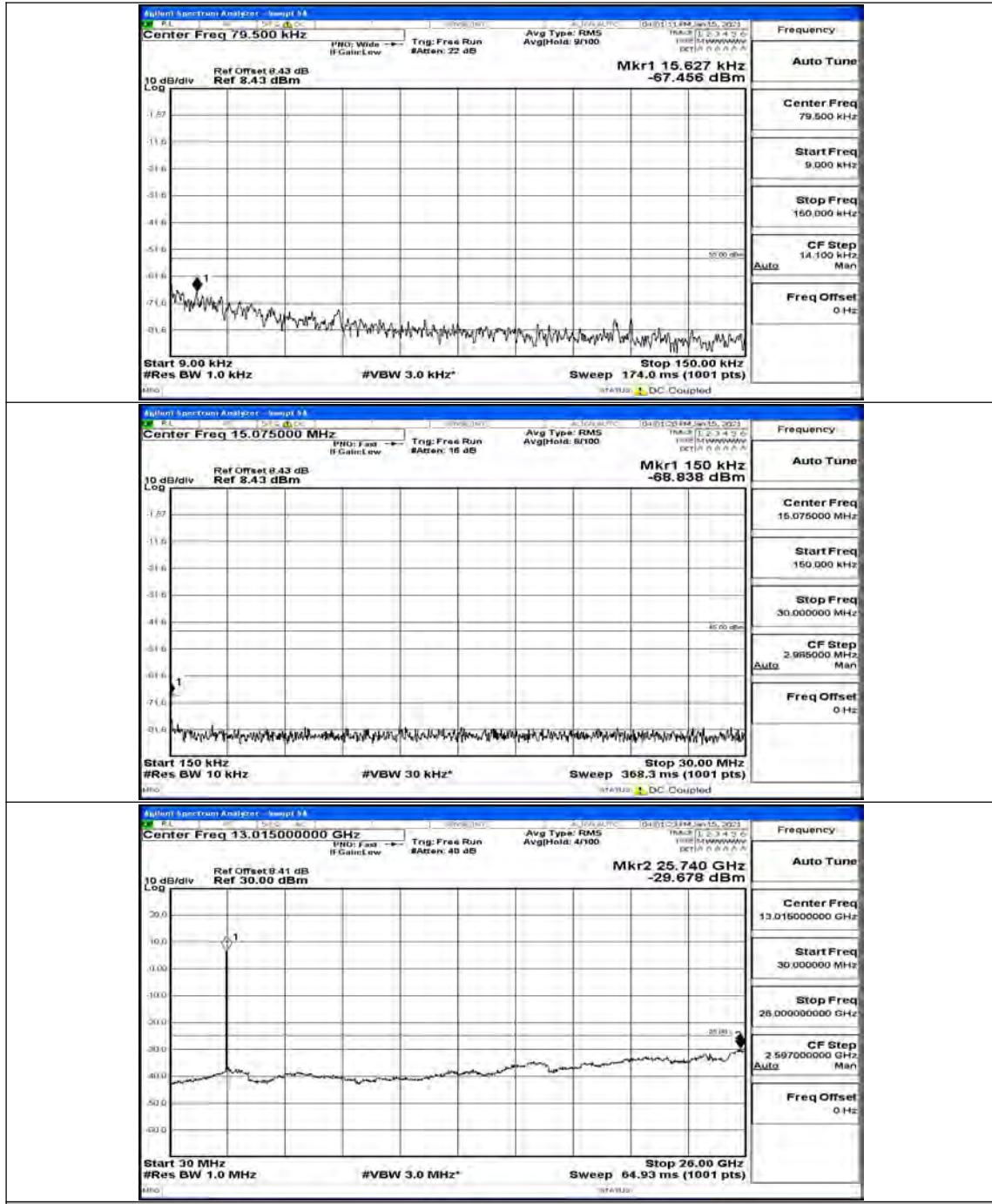




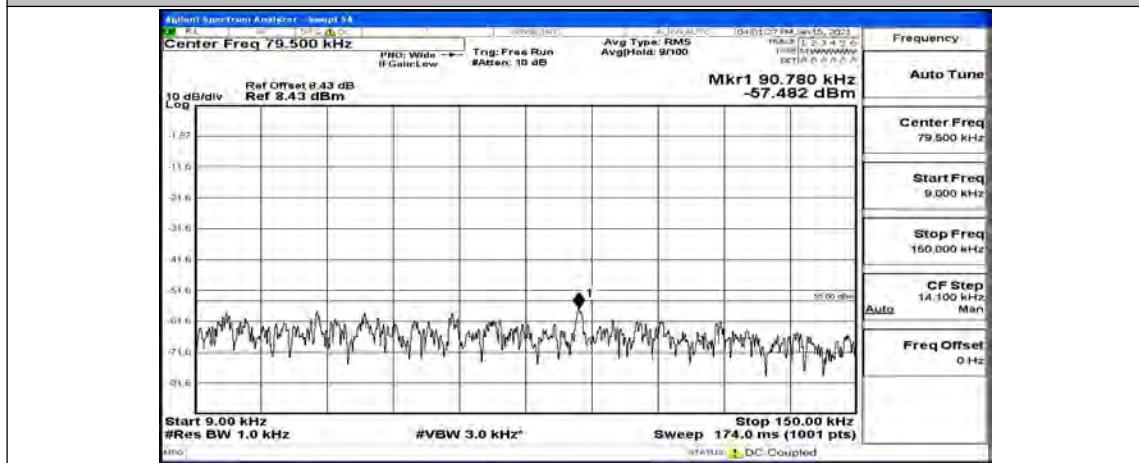
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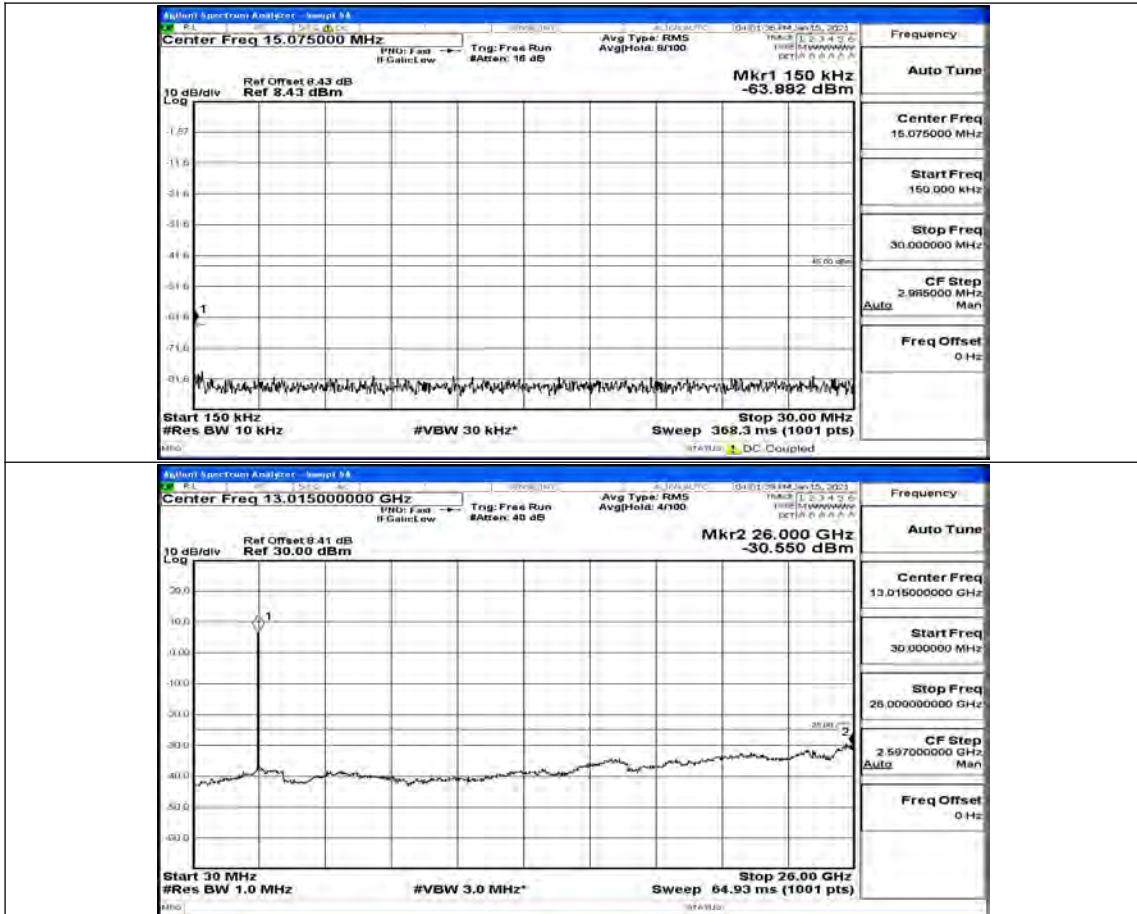


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

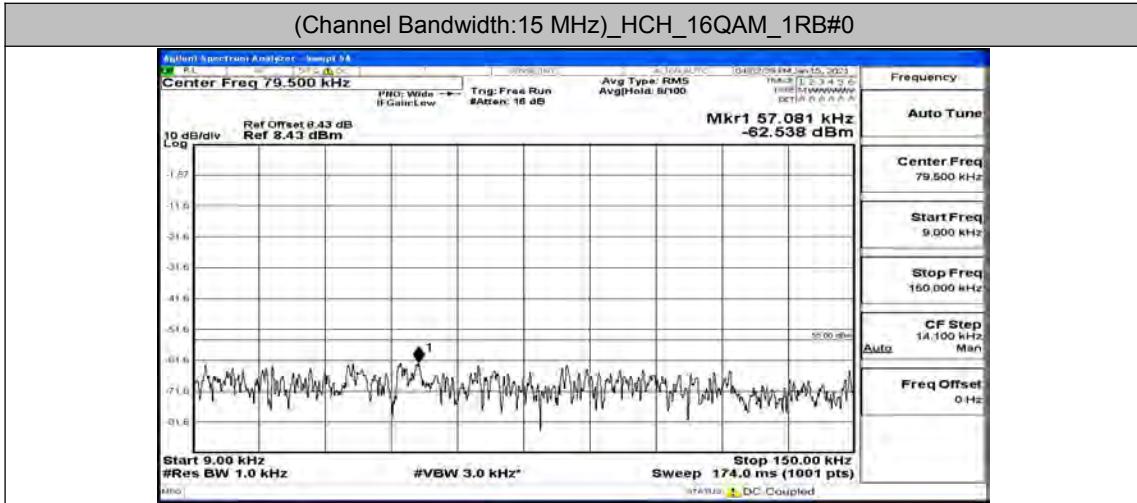


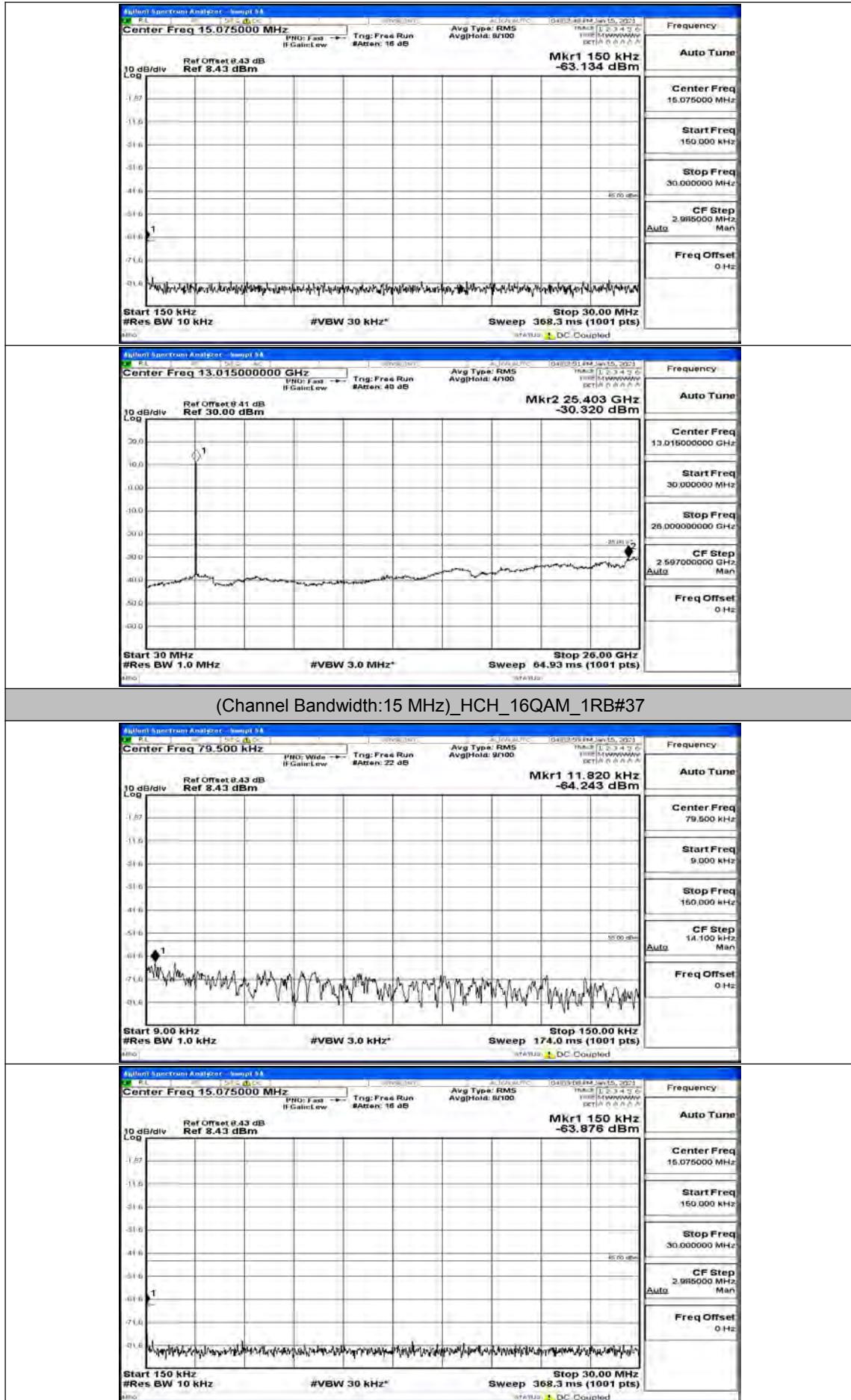
(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74





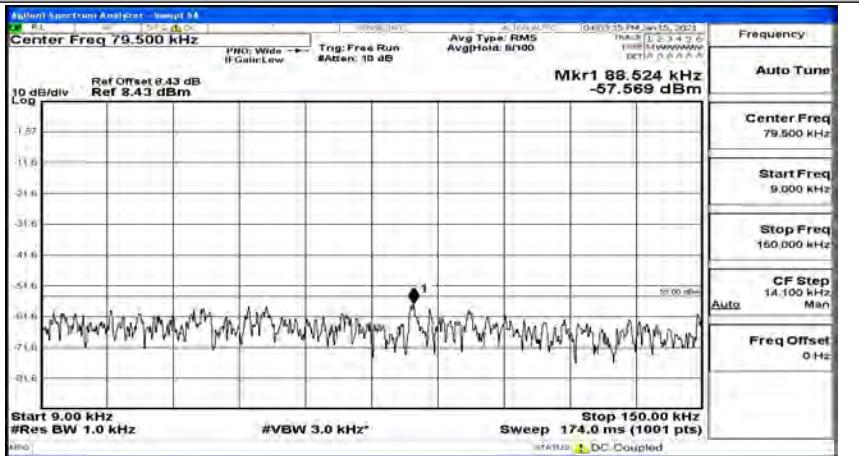
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0





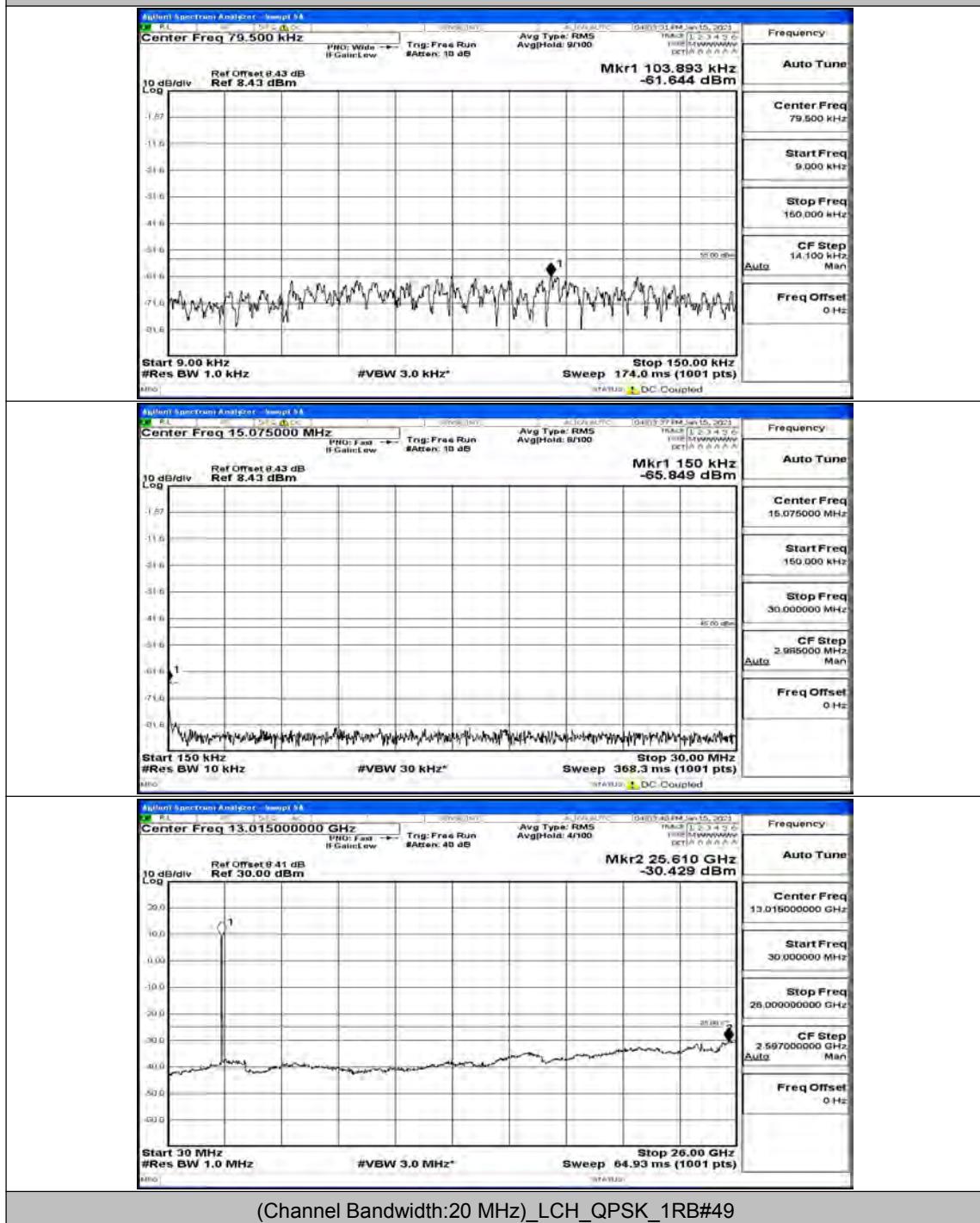


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74

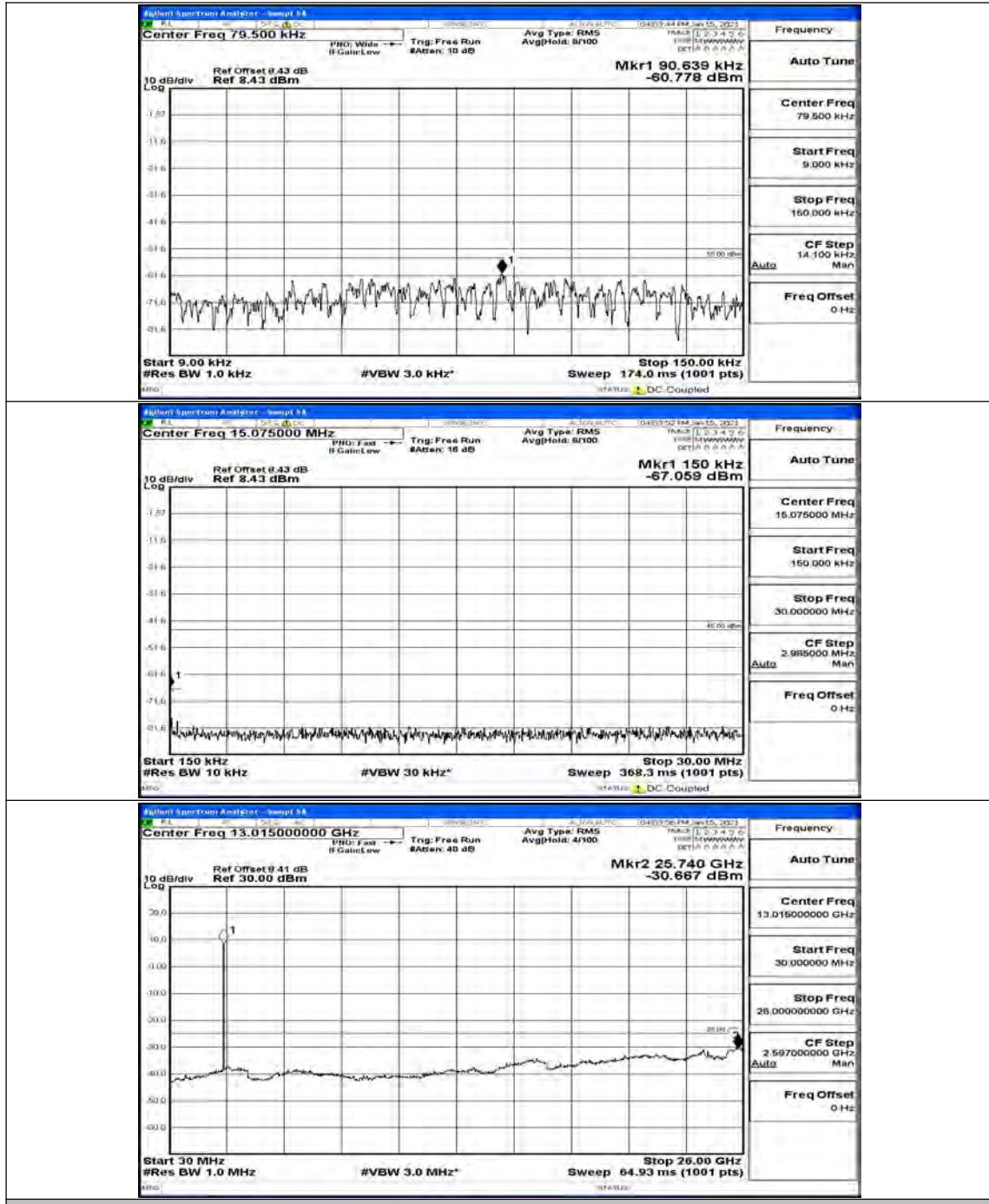


Channel Bandwidth: 20 MHz

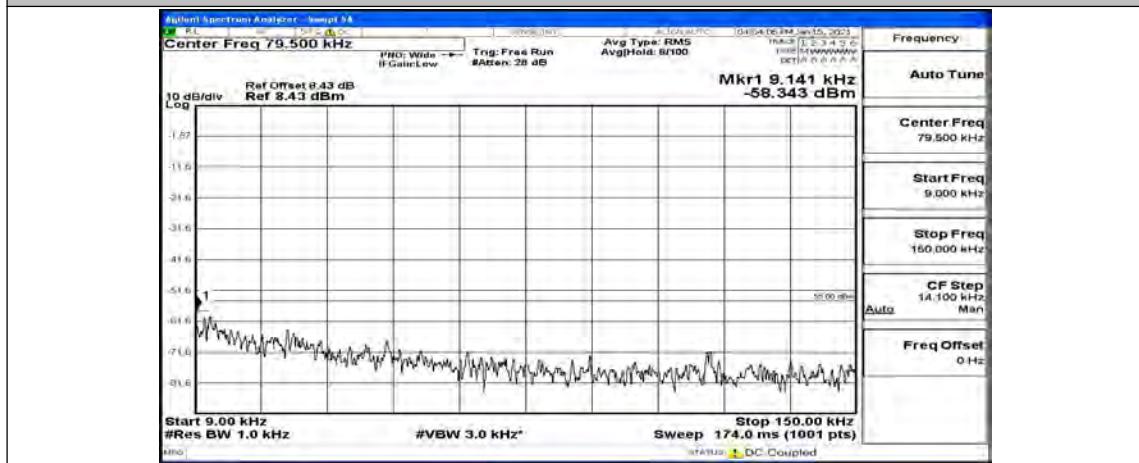
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0

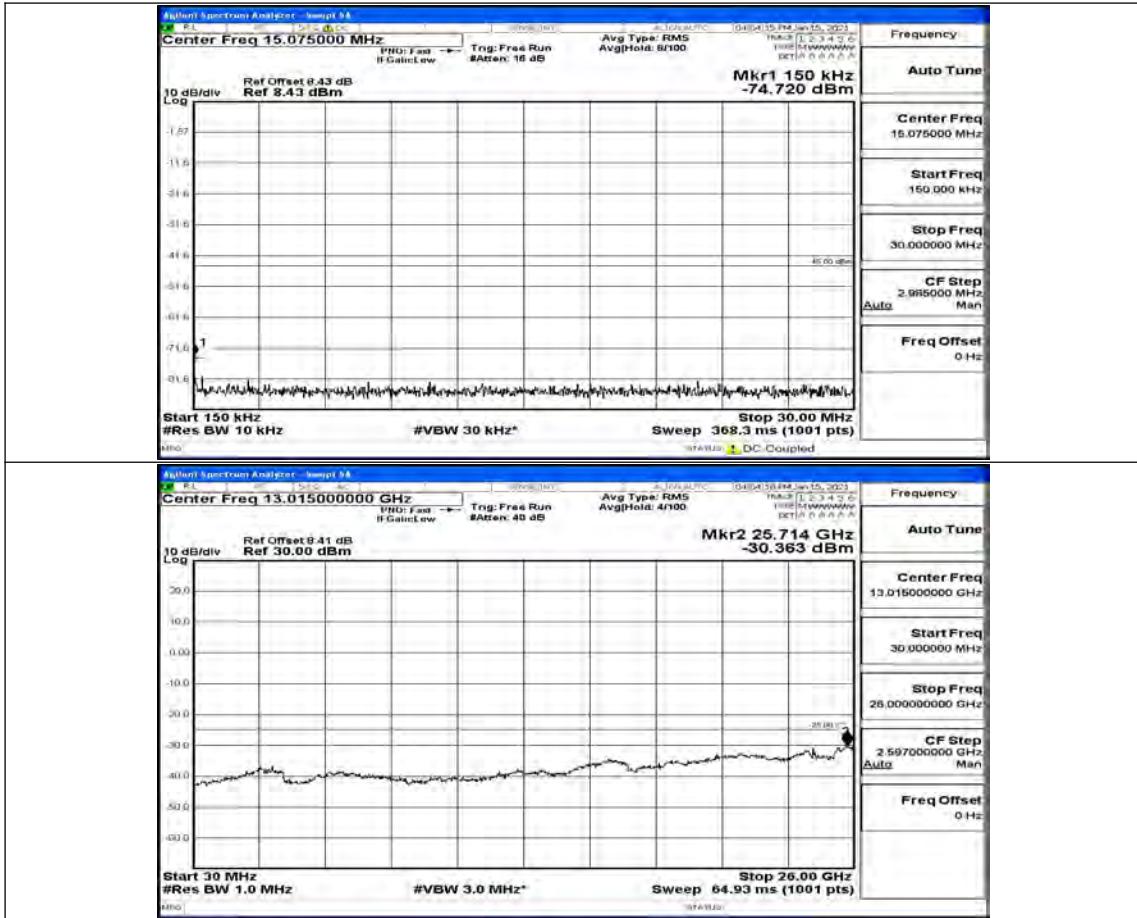


(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49

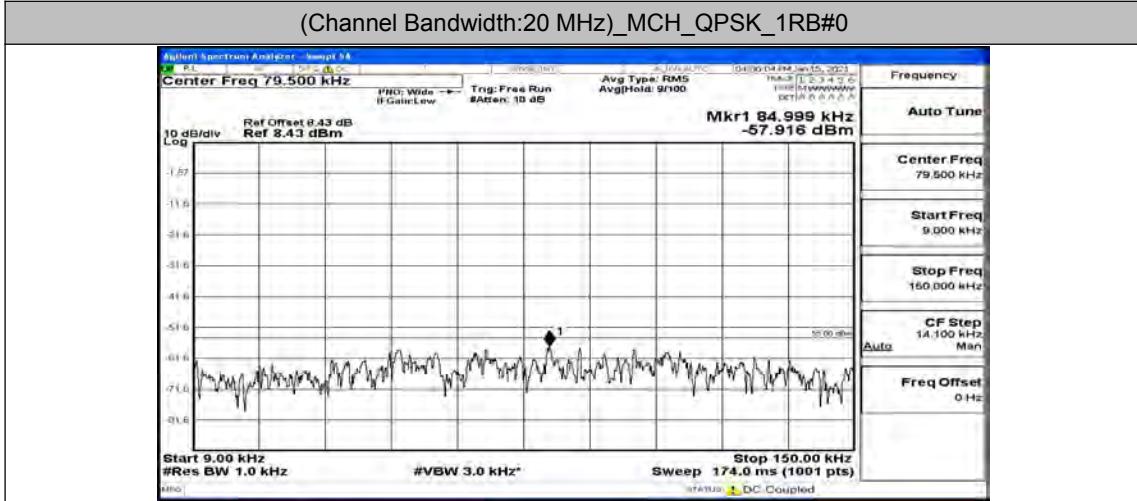


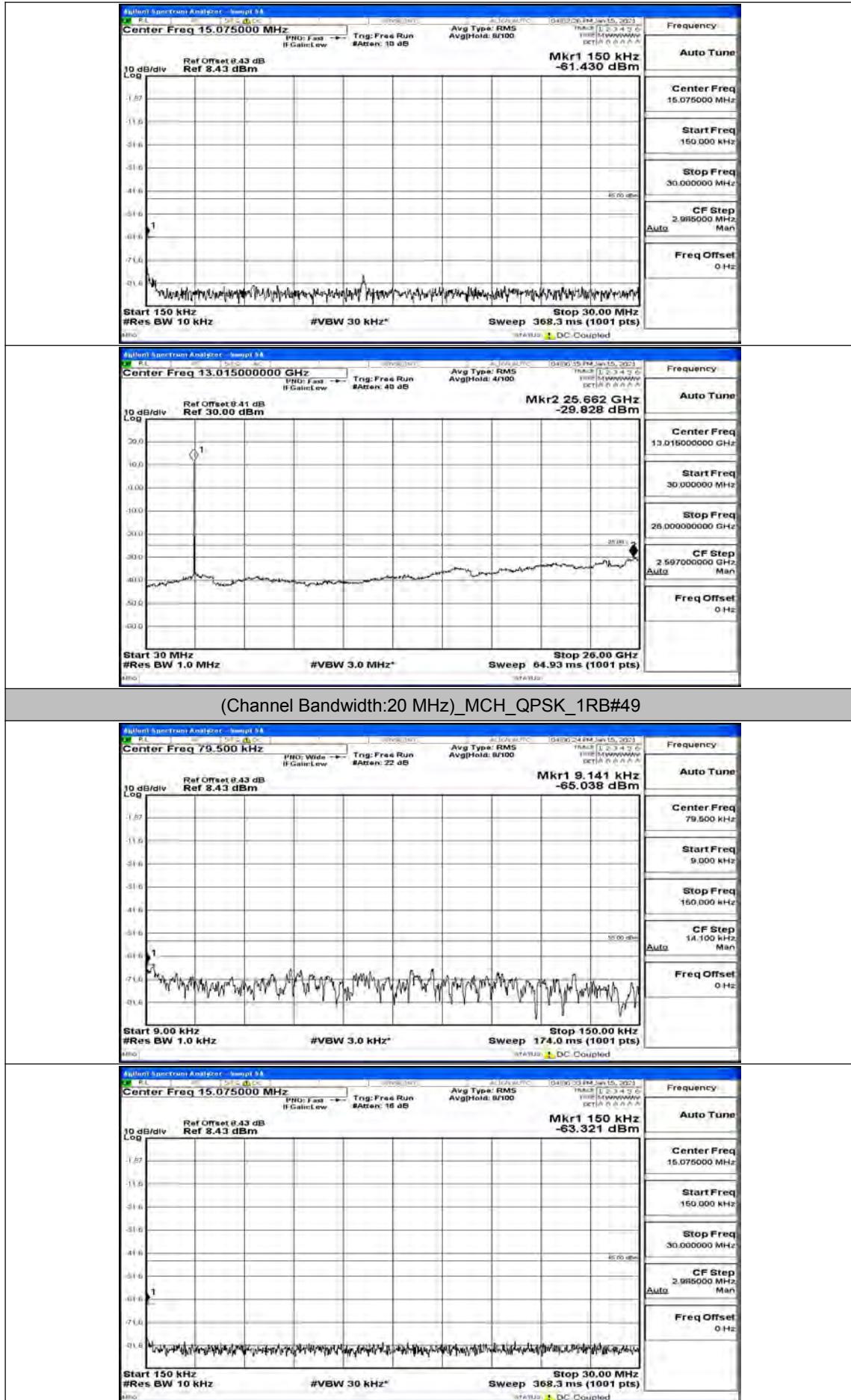
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99

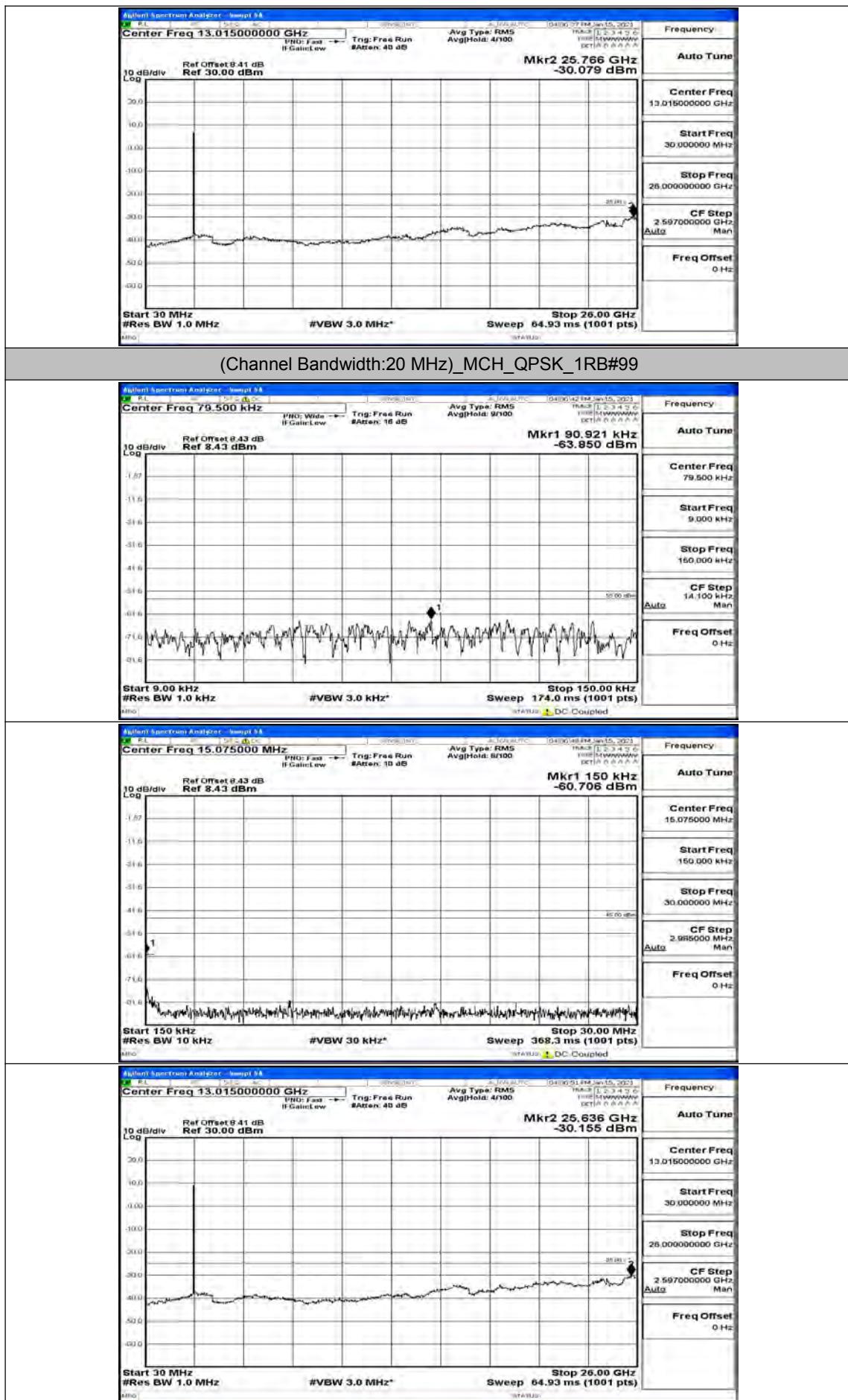




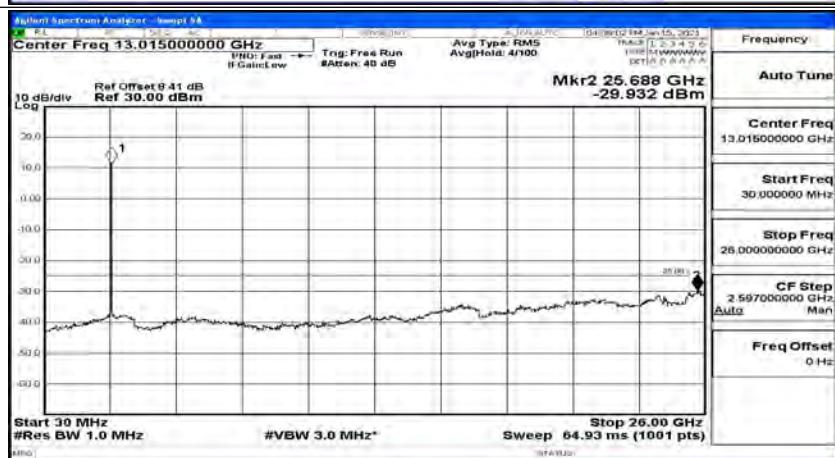
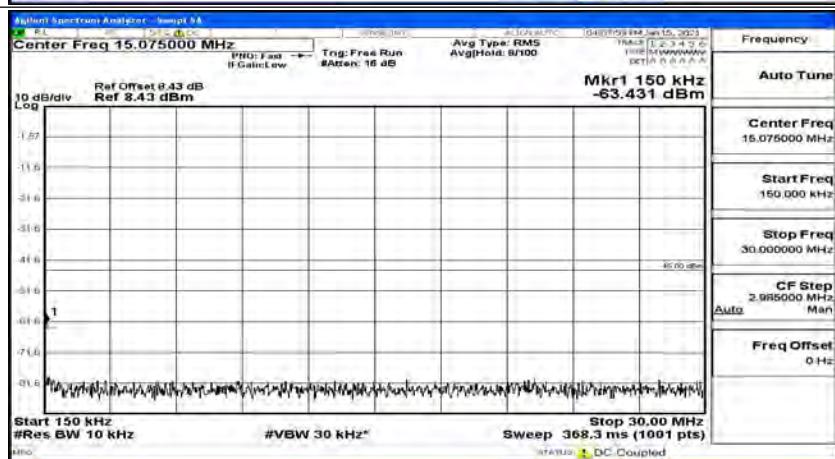
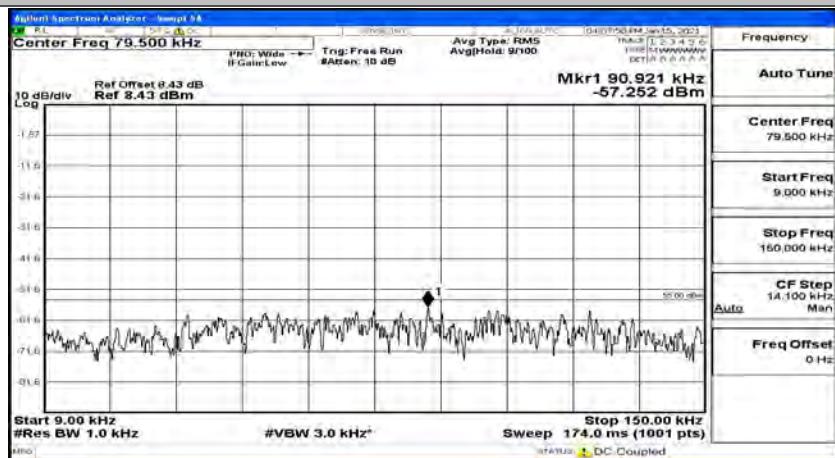
(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0



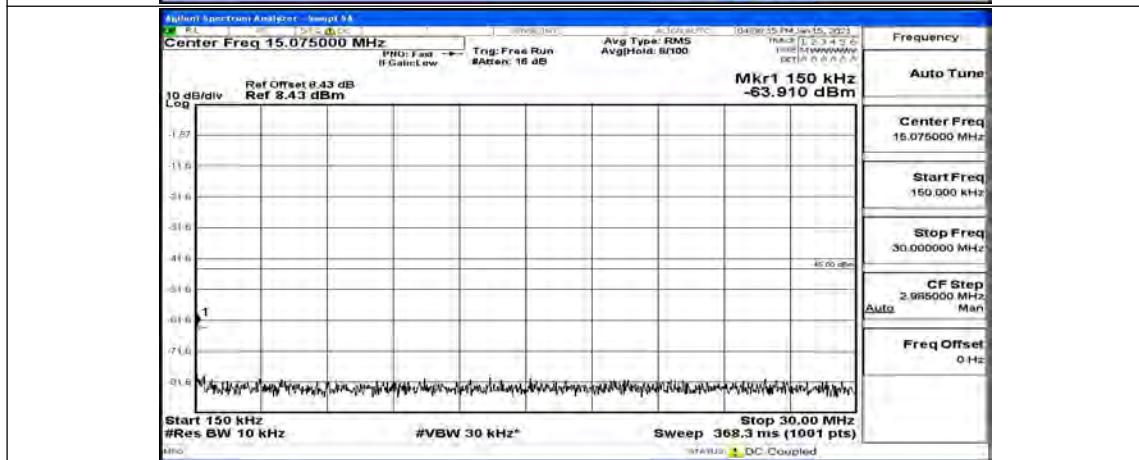
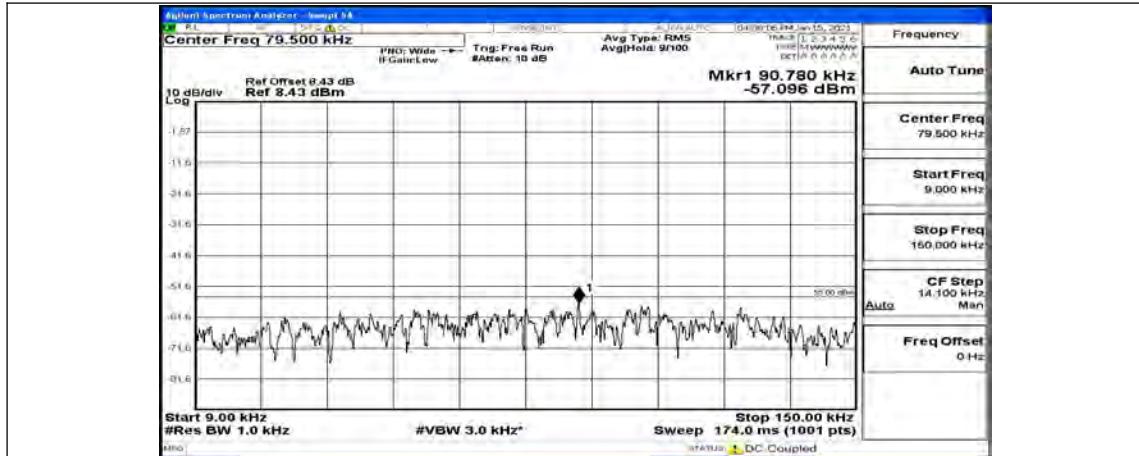




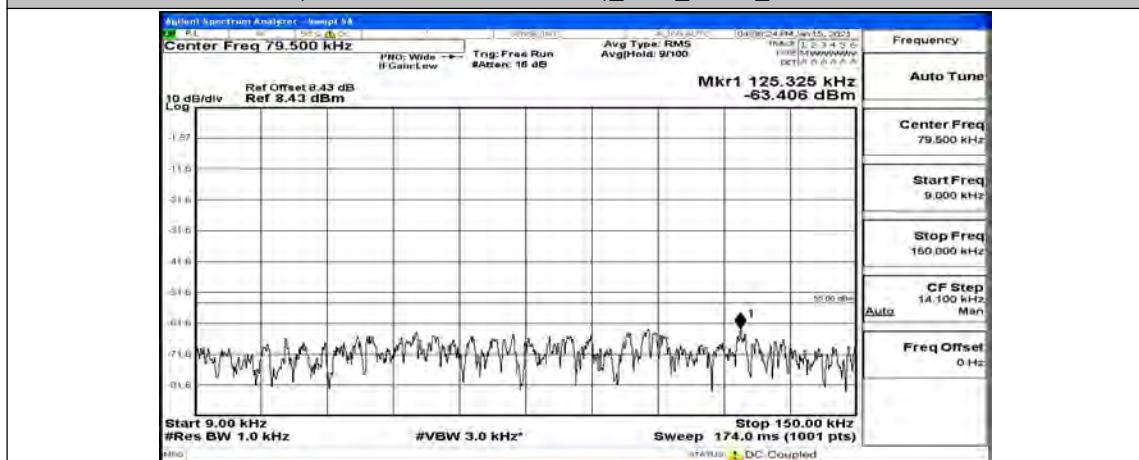
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

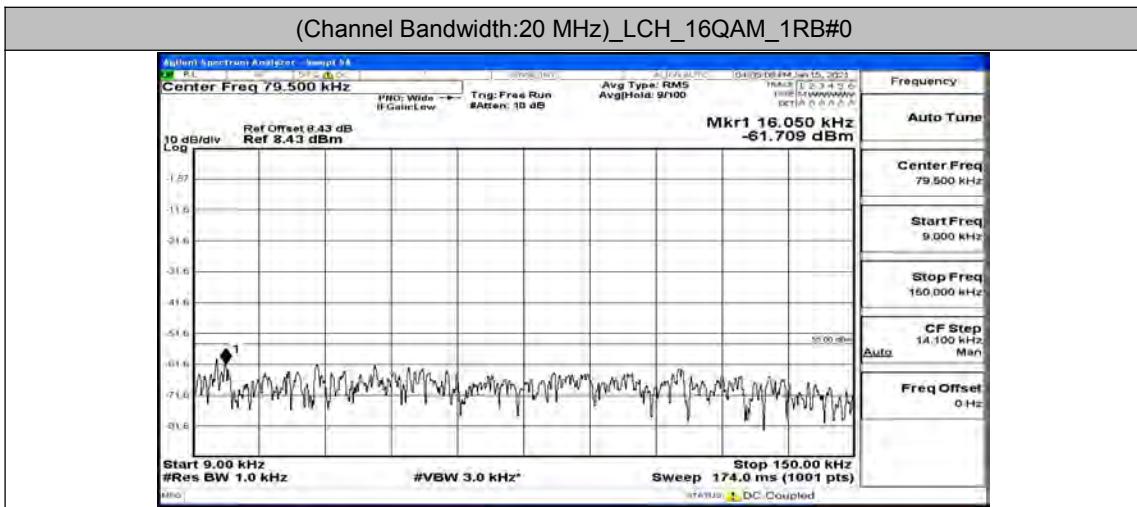
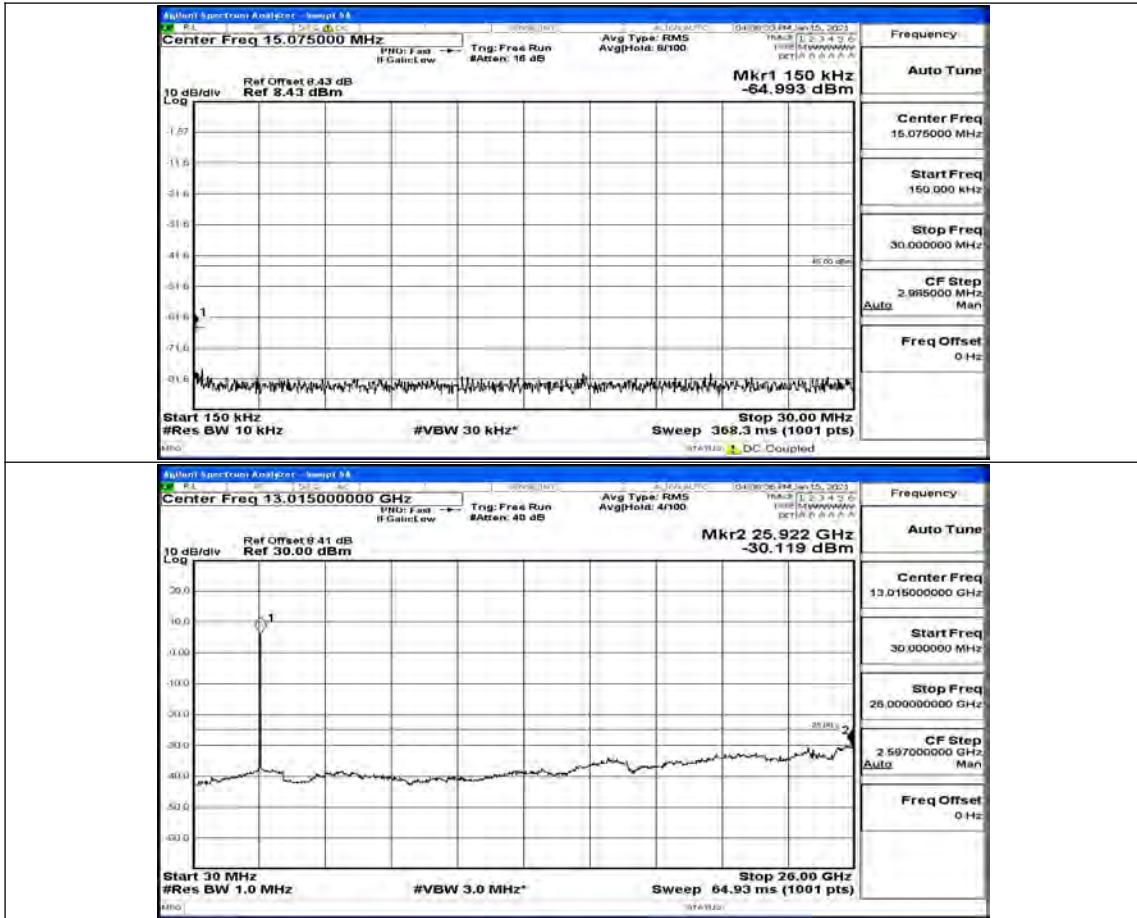


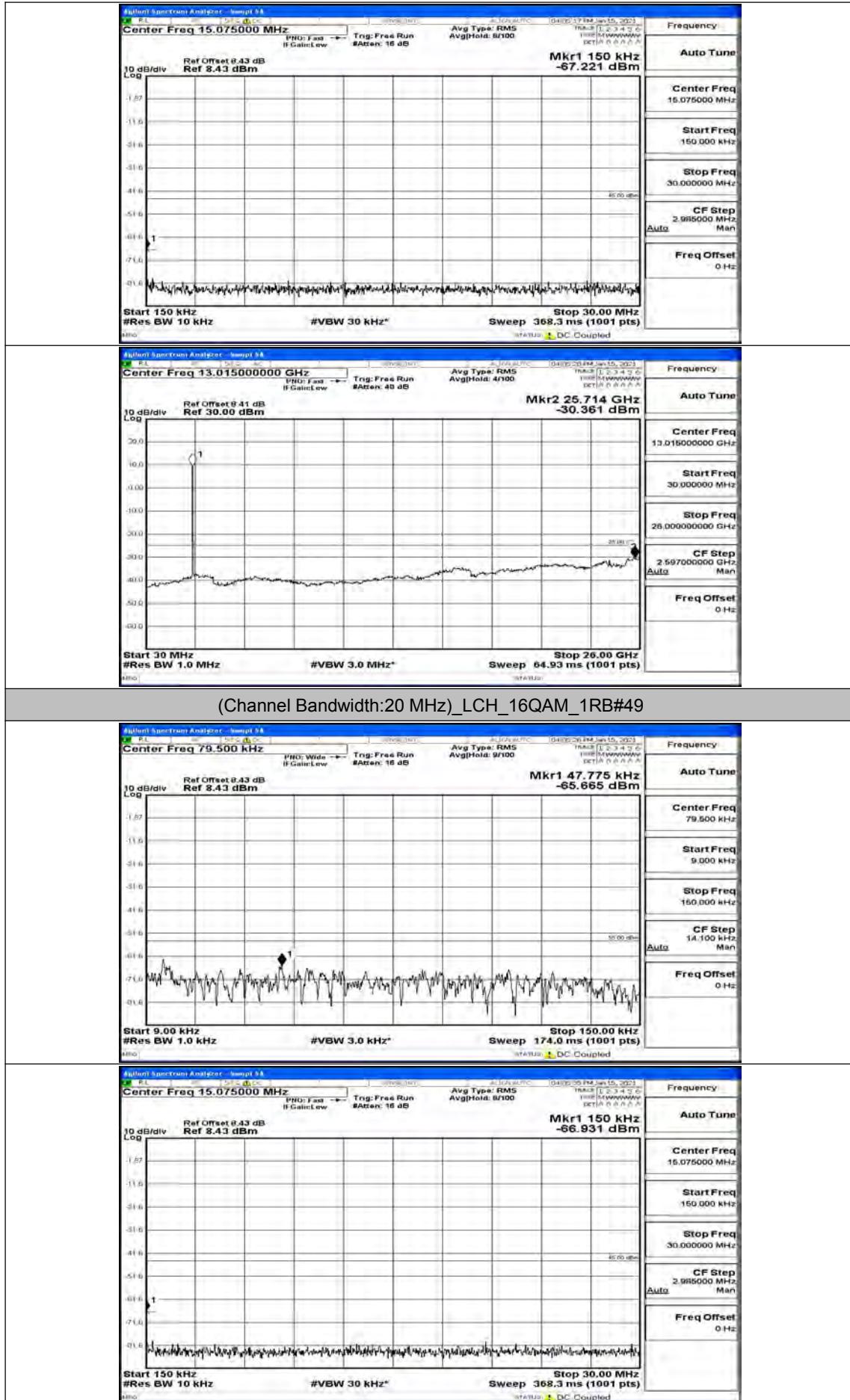
(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

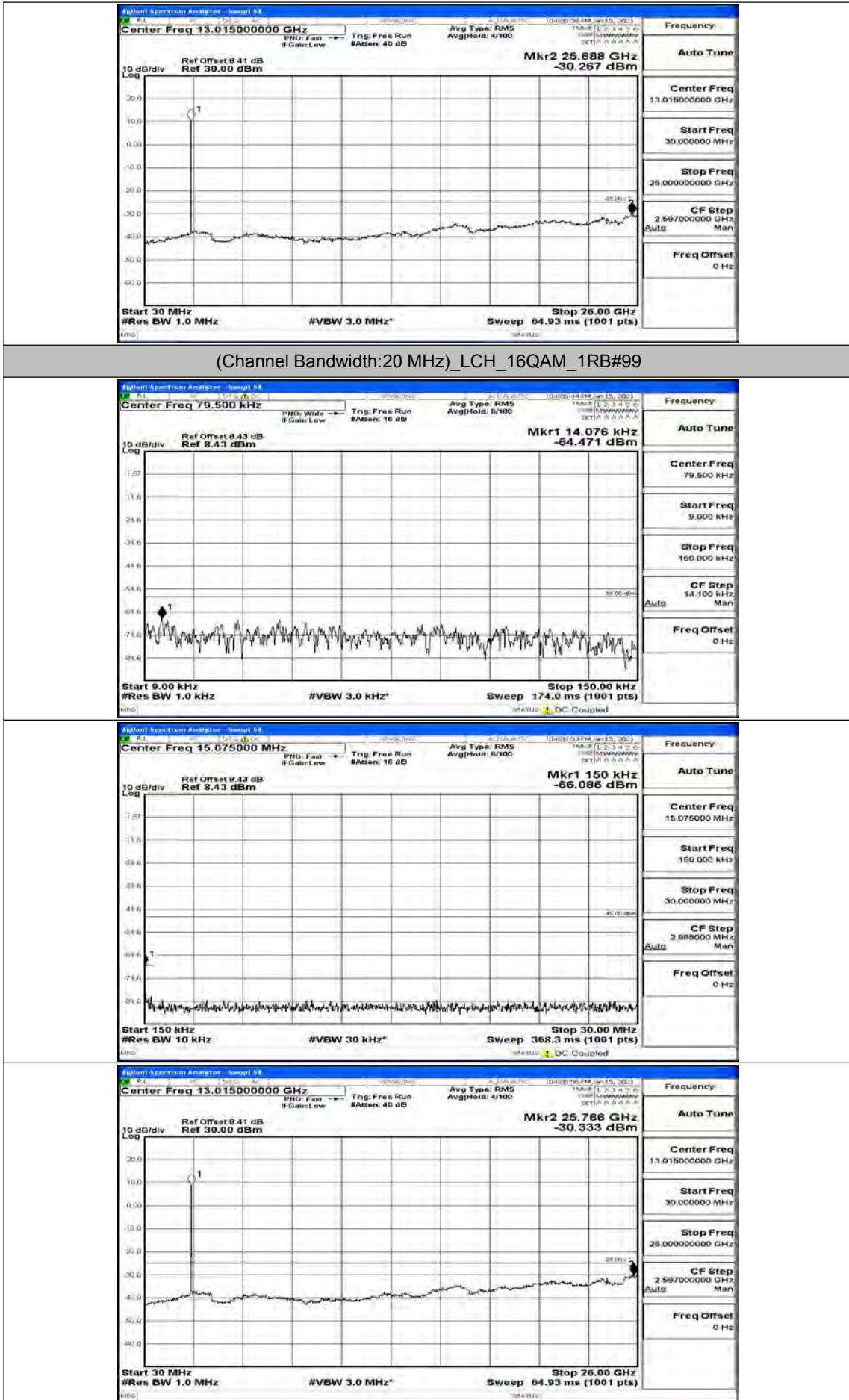


(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

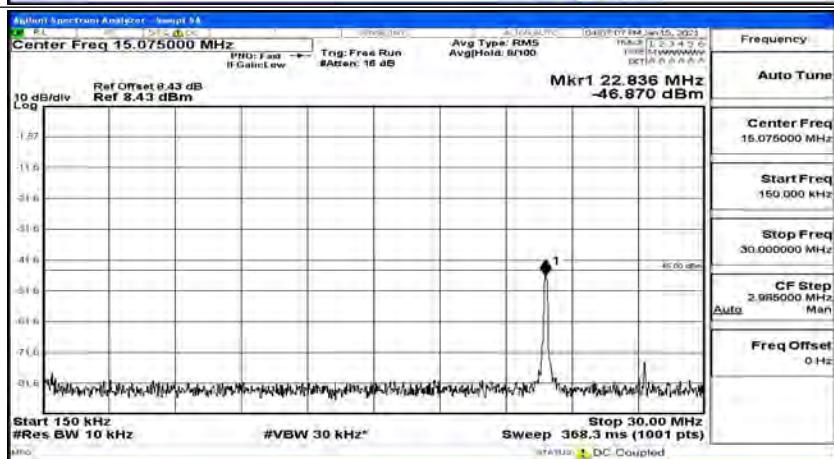
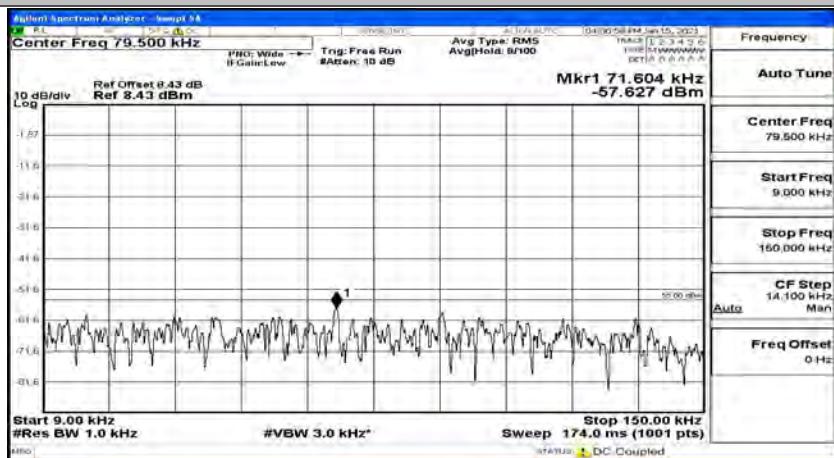




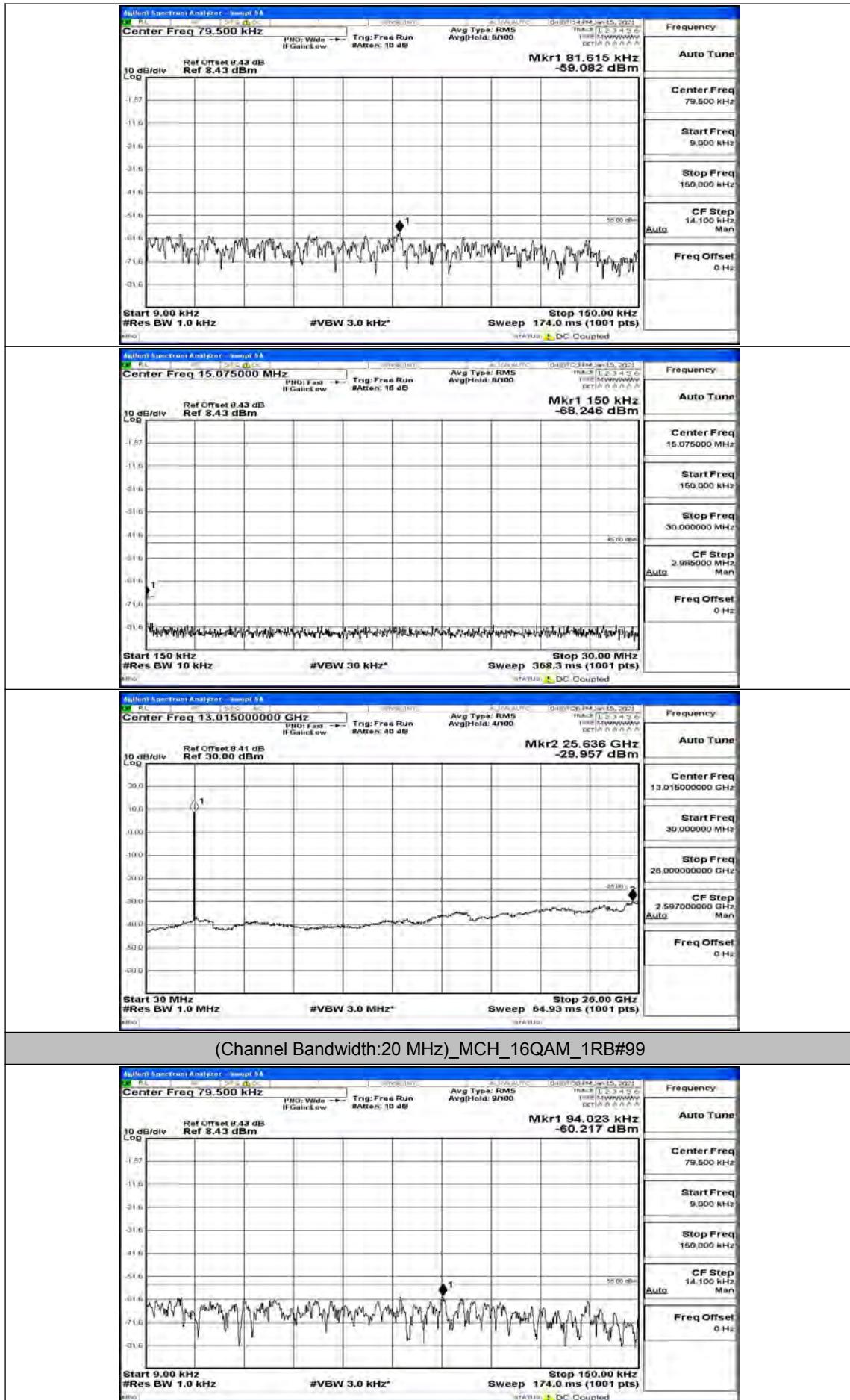




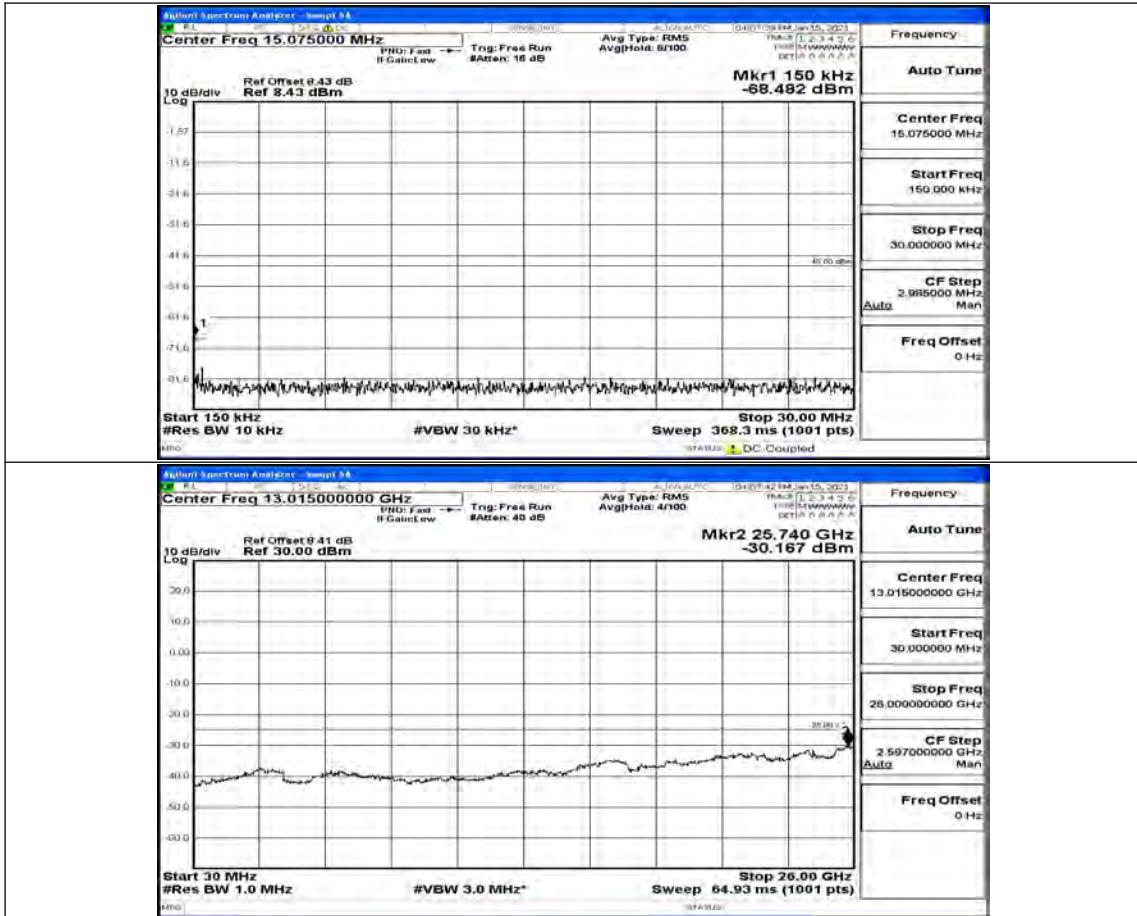
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0



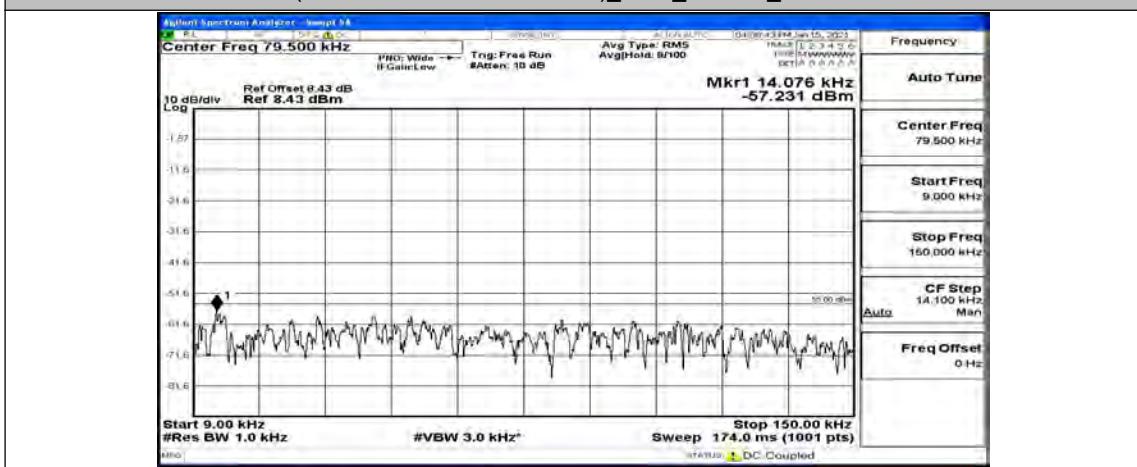
(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

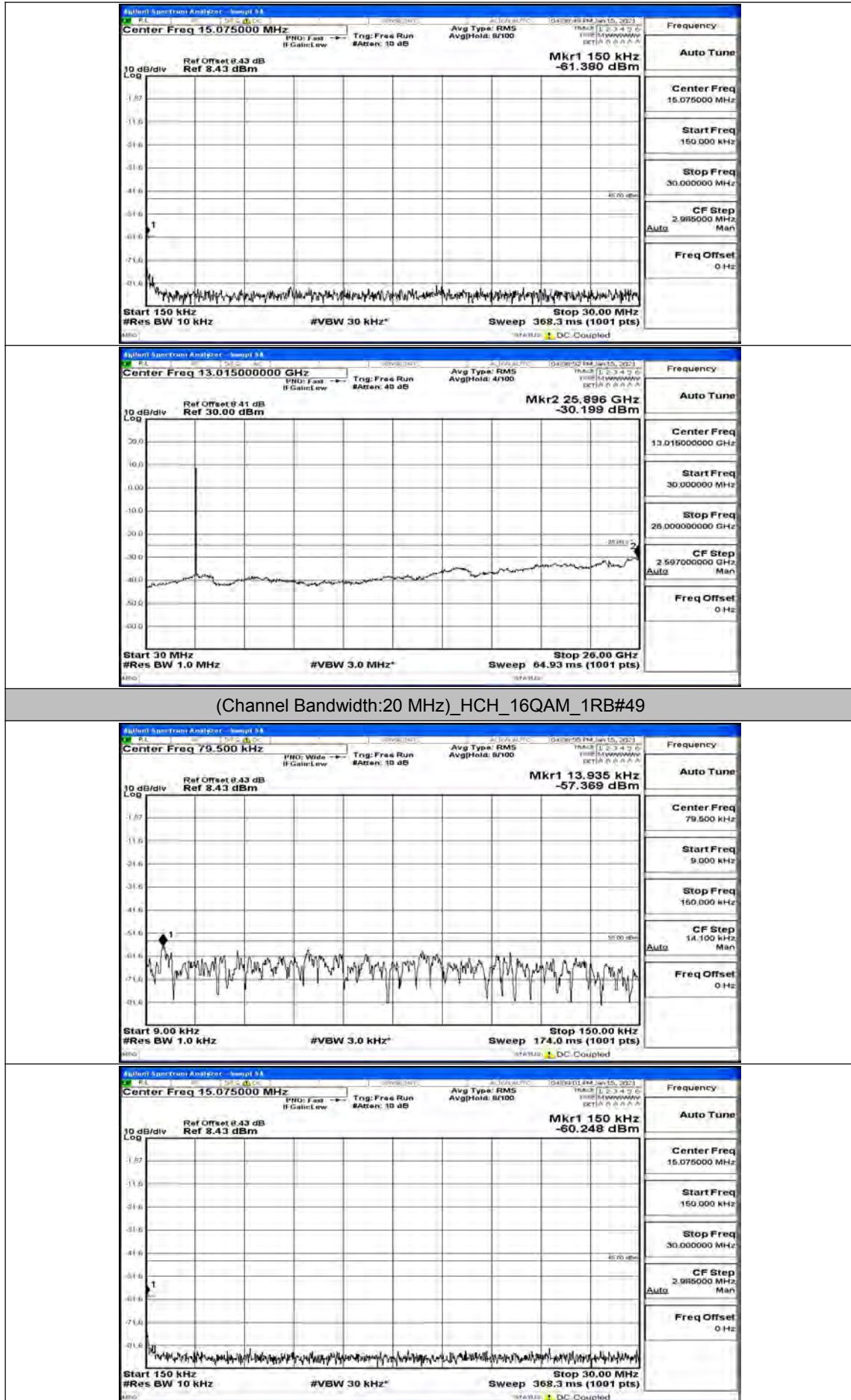


(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99



(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0







(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

