

Appendix I: Test Data for E-UTRA Band 17

Product Name: 3G/4G Smart Phone

Trade Mark: DOOGEE

Test Model: N30

Environmental Conditions

Temperature:	22.9° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

I.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	23.89	23.50	PASS
		1	12	25.08	23.87	PASS
		1	24	24.44	23.48	PASS
		12	0	23.35	22.39	PASS
		12	6	23.45	22.48	PASS
		12	13	23.74	22.73	PASS
		25	0	23.60	22.63	PASS
	MCH	1	0	24.39	23.62	PASS
		1	12	24.61	23.78	PASS
		1	24	24.19	23.37	PASS
		12	0	23.07	22.09	PASS
		12	6	23.32	22.35	PASS
		12	13	23.17	22.22	PASS
		25	0	23.16	22.12	PASS
	HCH	1	0	24.30	23.39	PASS
		1	12	24.51	23.61	PASS
		1	24	24.06	23.26	PASS
		12	0	23.37	22.41	PASS
		12	6	23.22	22.33	PASS
		12	13	22.87	21.94	PASS
		25	0	23.16	22.14	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	24.05	23.62	PASS
		1	24	25.60	23.71	PASS
		1	49	23.96	23.32	PASS
		25	0	23.06	22.03	PASS
		25	12	23.37	22.27	PASS
		25	25	22.85	21.87	PASS
		50	0	22.97	21.95	PASS
	MCH	1	0	23.87	23.59	PASS
		1	24	25.55	23.71	PASS
		1	49	23.84	23.31	PASS
		25	0	23.06	22.03	PASS
		25	12	23.37	22.28	PASS
		25	25	22.86	21.88	PASS
		50	0	22.95	21.93	PASS
	HCH	1	0	23.85	23.57	PASS
		1	24	25.54	23.68	PASS
		1	49	23.83	23.34	PASS
		25	0	23.06	22.01	PASS
		25	12	23.35	22.27	PASS
		25	25	22.88	21.90	PASS
		50	0	22.95	21.94	PASS

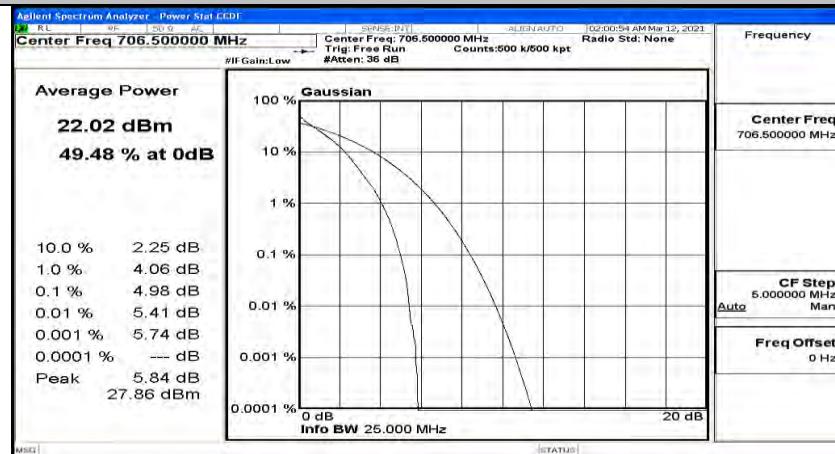
I.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.98	<13	PASS
	MCH	4.92	<13	PASS
	HCH	4.68	<13	PASS
16QAM	LCH	5.79	<13	PASS
	MCH	5.69	<13	PASS
	HCH	5.49	<13	PASS

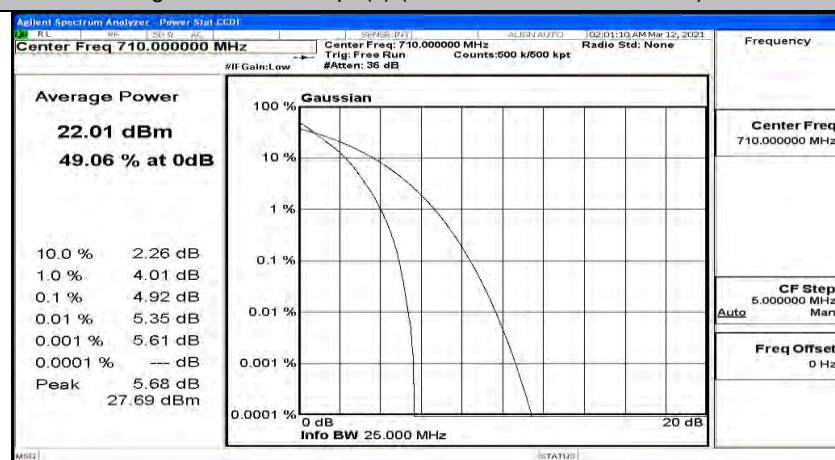
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.95	<13	PASS
	MCH	4.83	<13	PASS
	HCH	4.82	<13	PASS
16QAM	LCH	5.7	<13	PASS
	MCH	5.68	<13	PASS
	HCH	5.7	<13	PASS

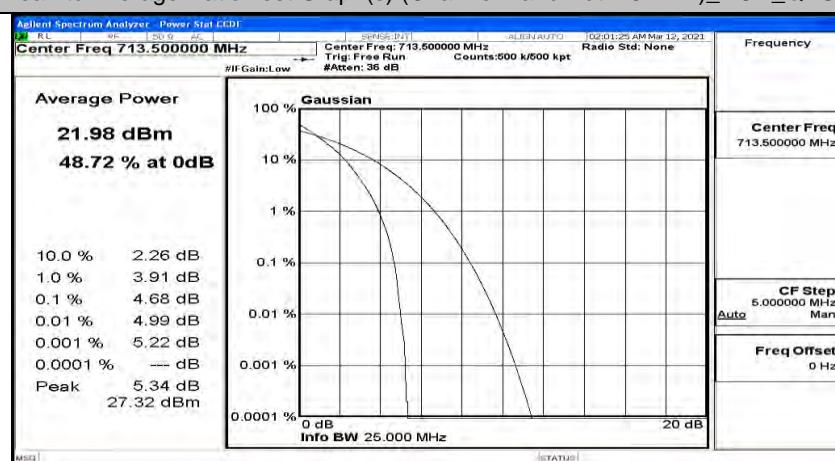
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



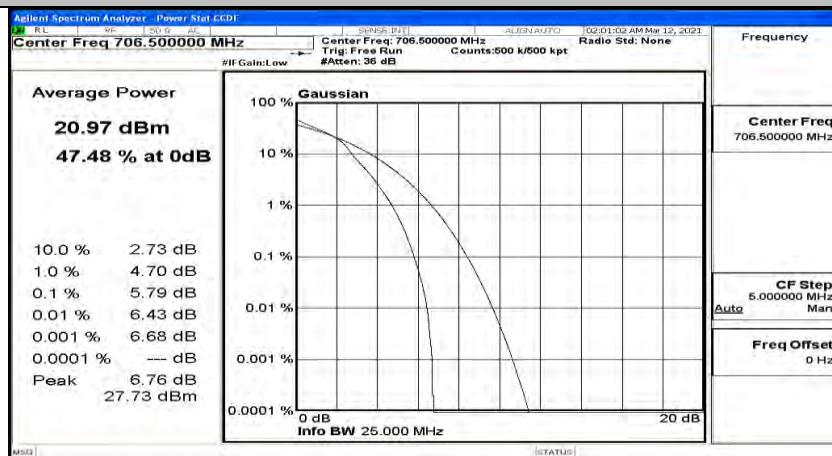
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



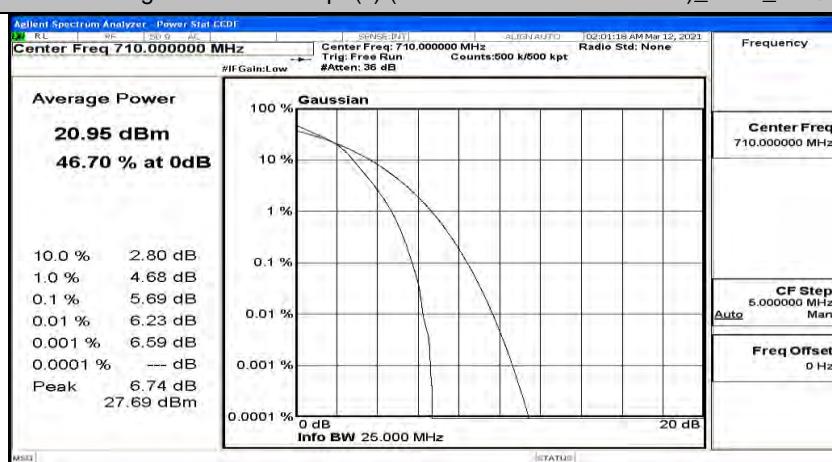
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



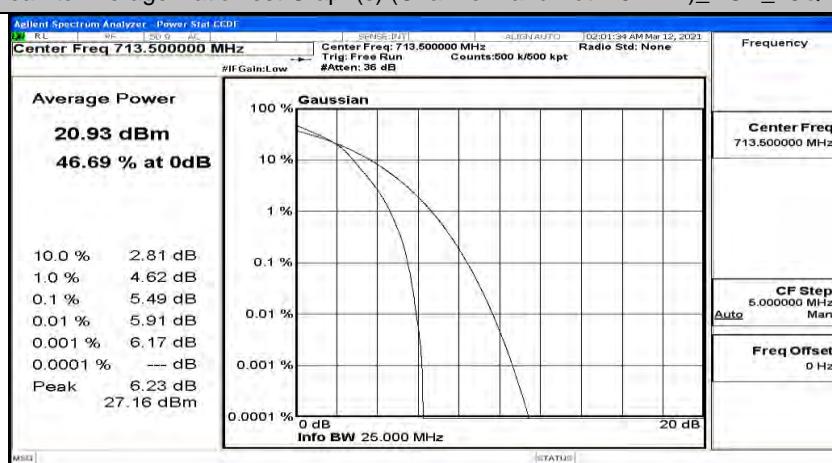
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



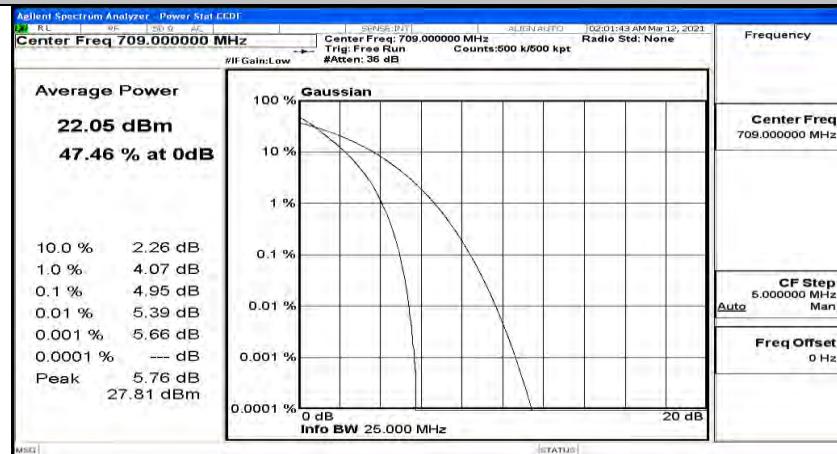
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



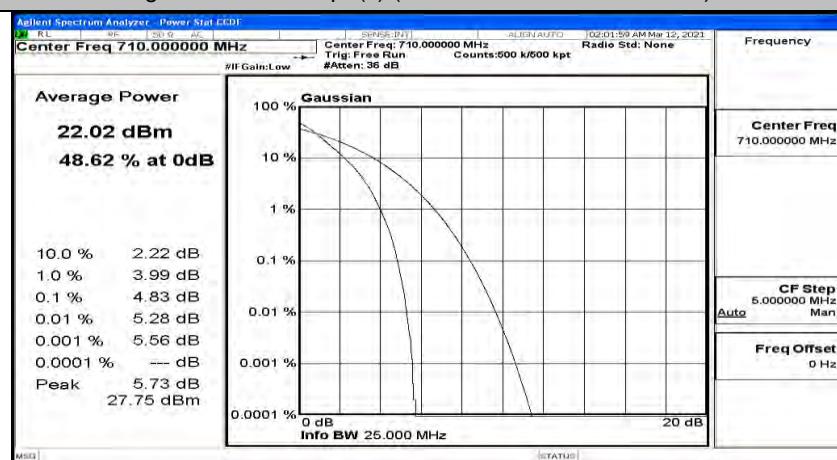
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



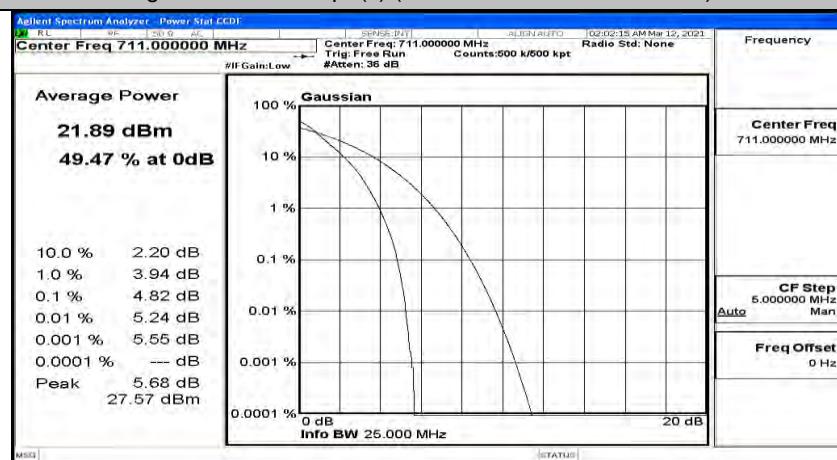
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



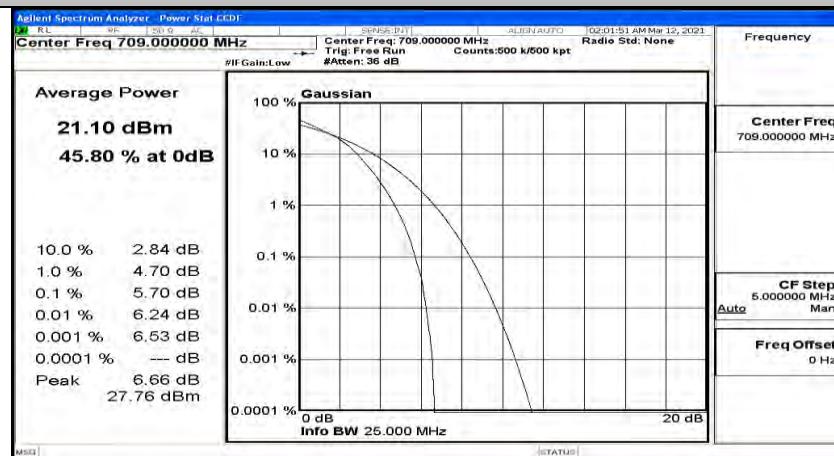
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



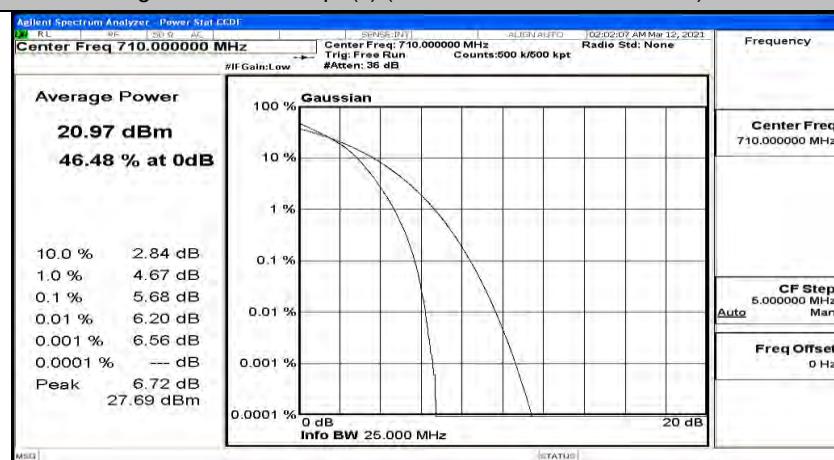
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



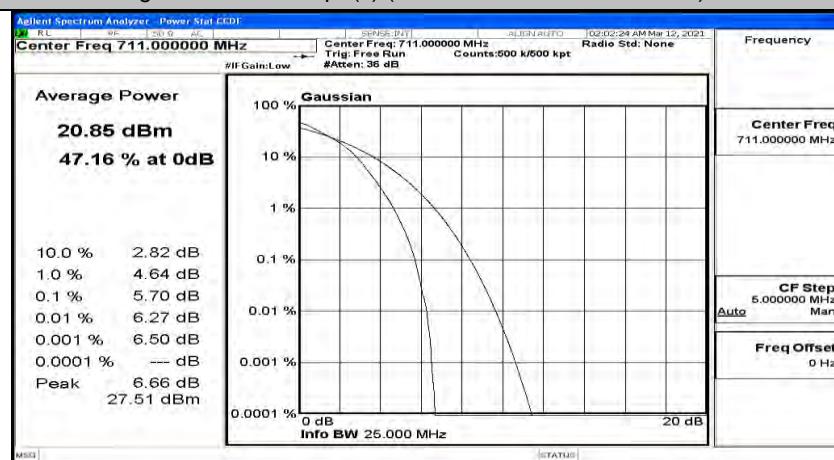
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

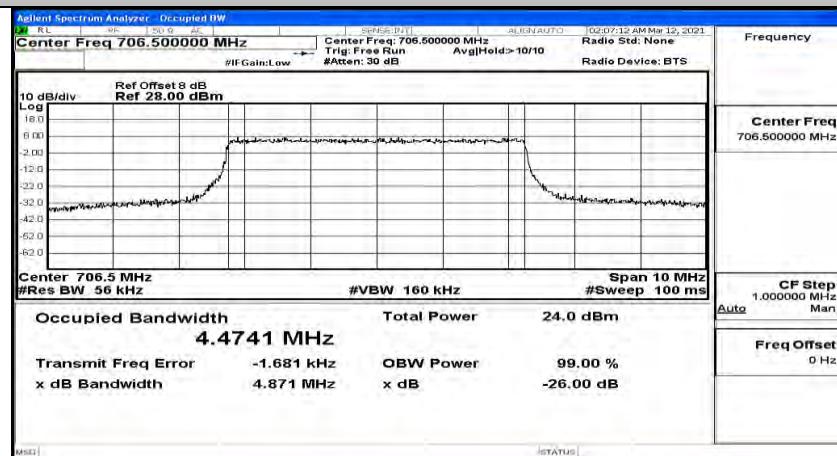


I.3 26dB Bandwidth and Occupied Bandwidth

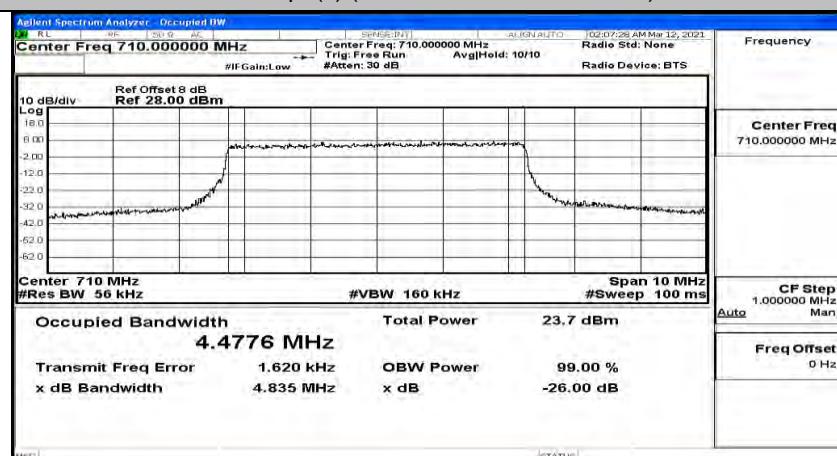
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4741	4.871	PASS
	MCH	4.4776	4.835	PASS
	HCH	4.4648	4.831	PASS
16QAM	LCH	4.4782	4.866	PASS
	MCH	4.4756	4.864	PASS
	HCH	4.4599	4.875	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9557	9.492	PASS
	MCH	8.9363	9.474	PASS
	HCH	8.9119	9.405	PASS
16QAM	LCH	8.9311	9.421	PASS
	MCH	8.9327	9.480	PASS
	HCH	8.9035	9.457	PASS

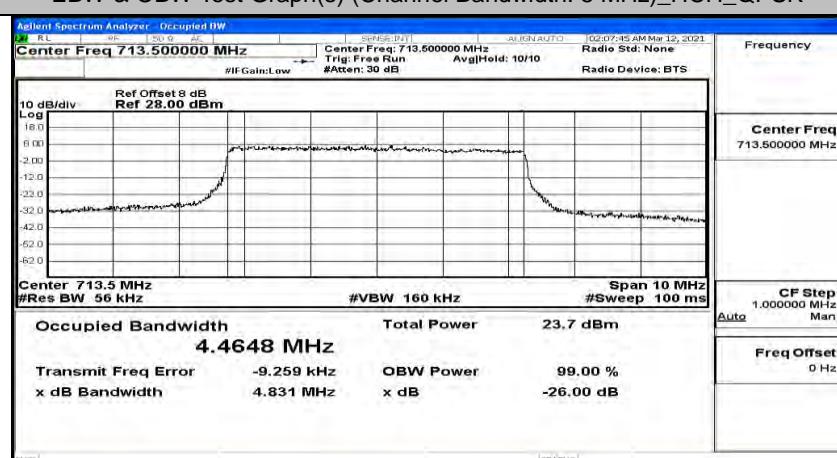
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



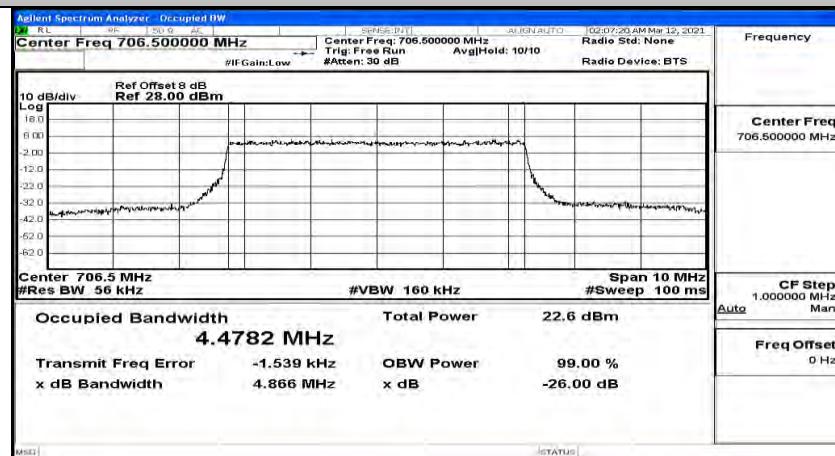
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



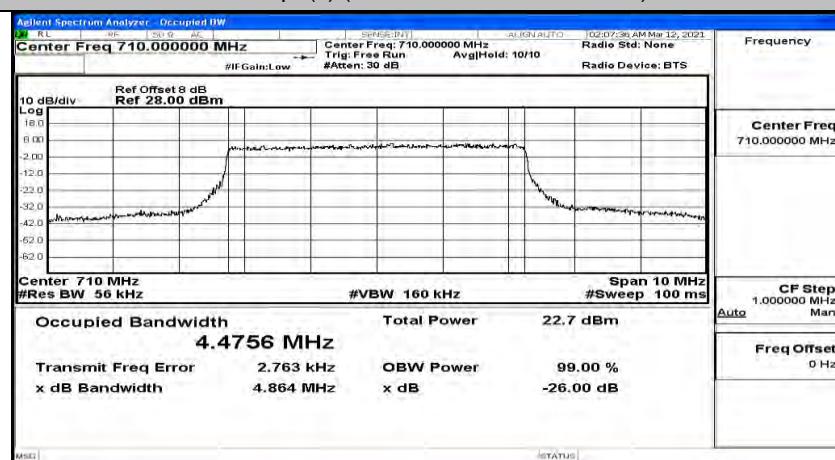
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



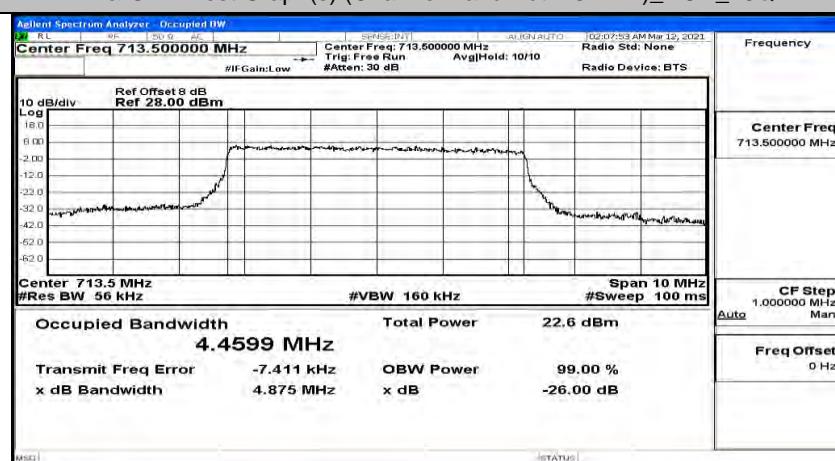
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



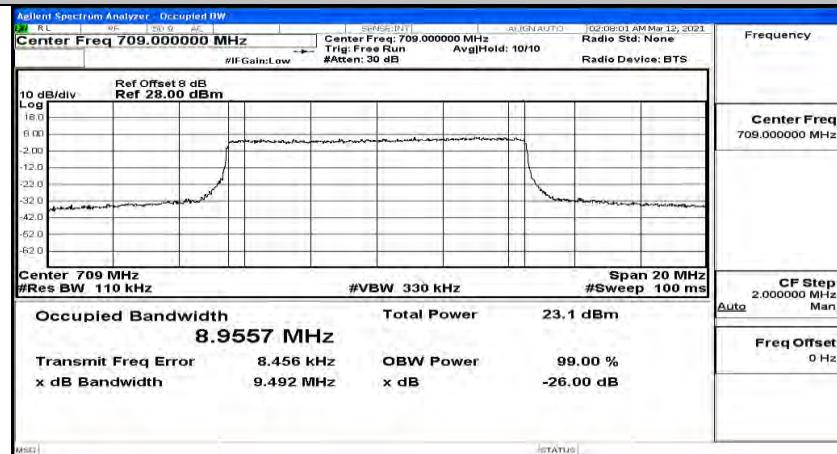
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



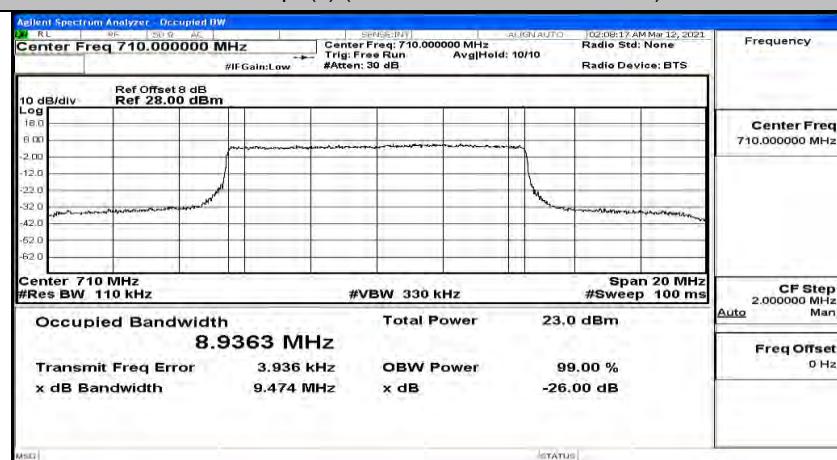
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



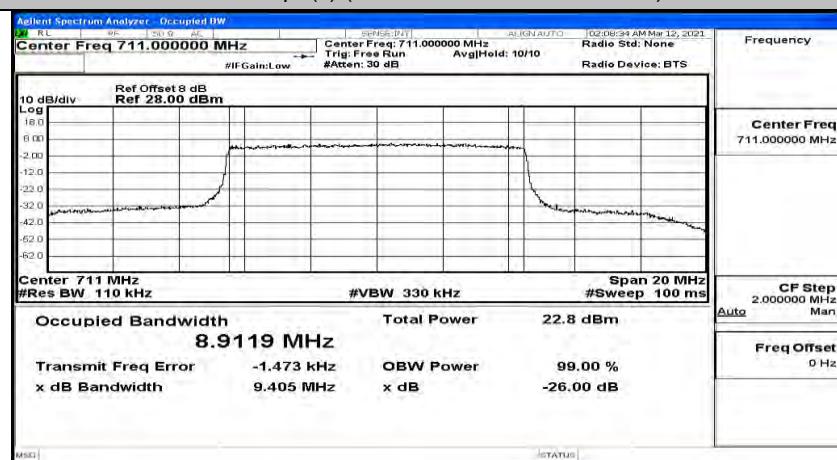
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



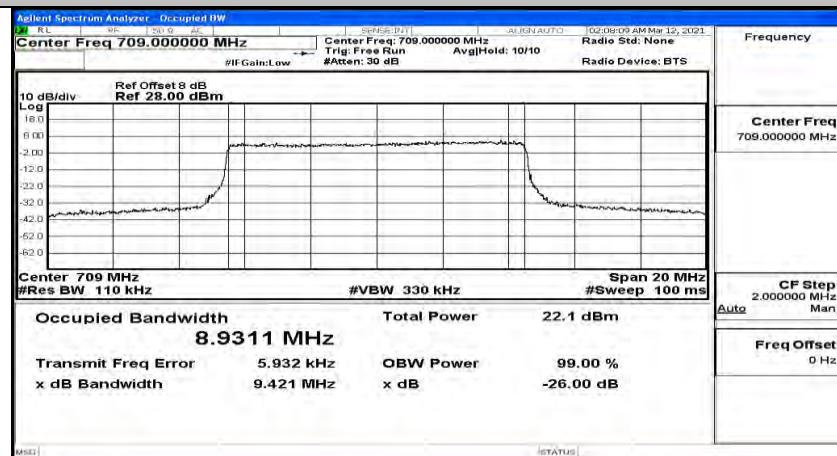
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



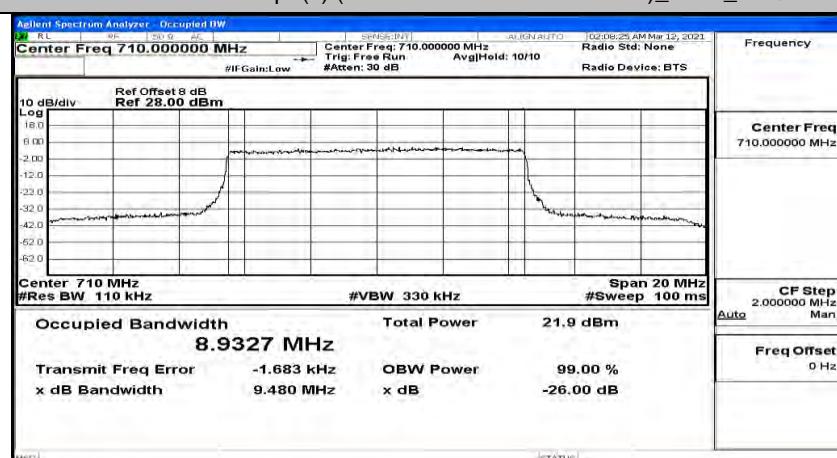
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



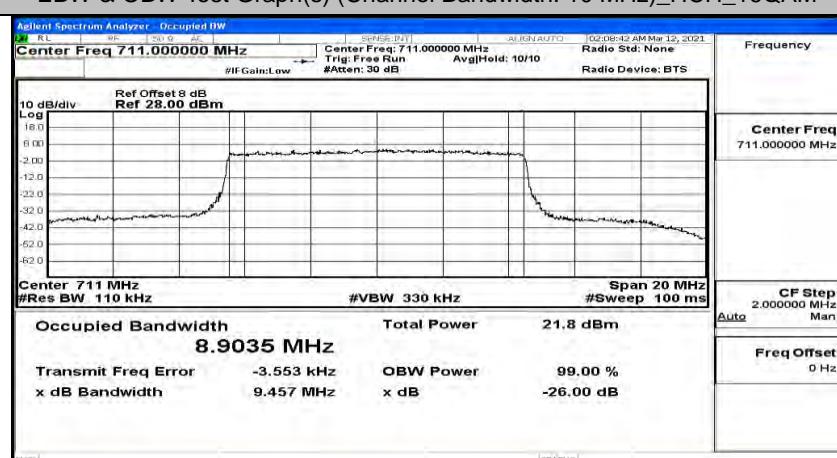
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



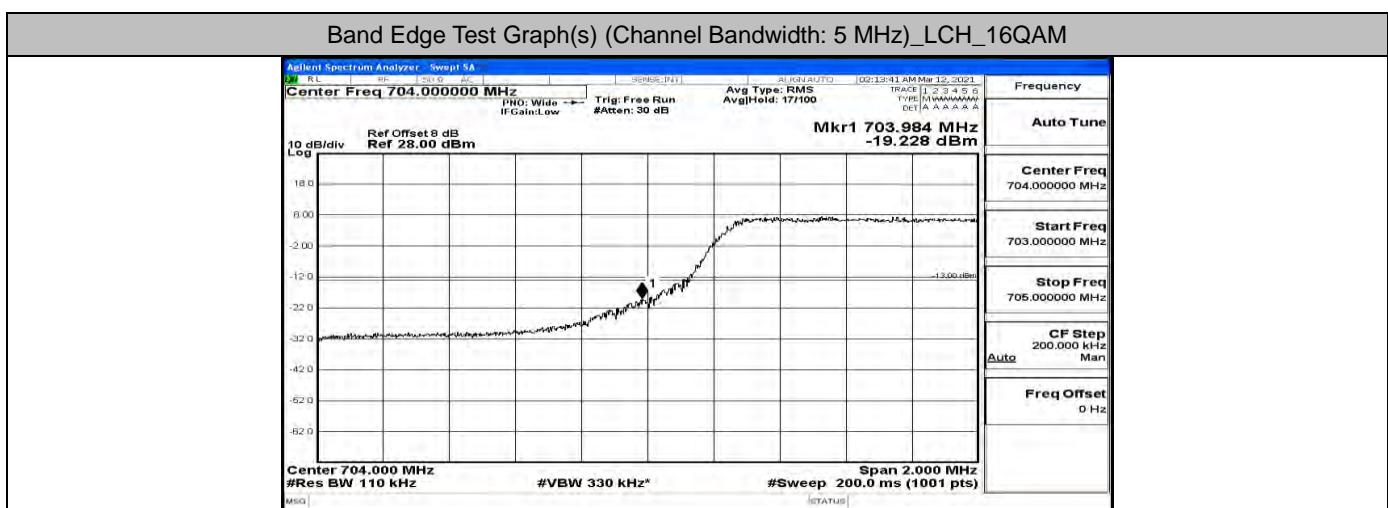
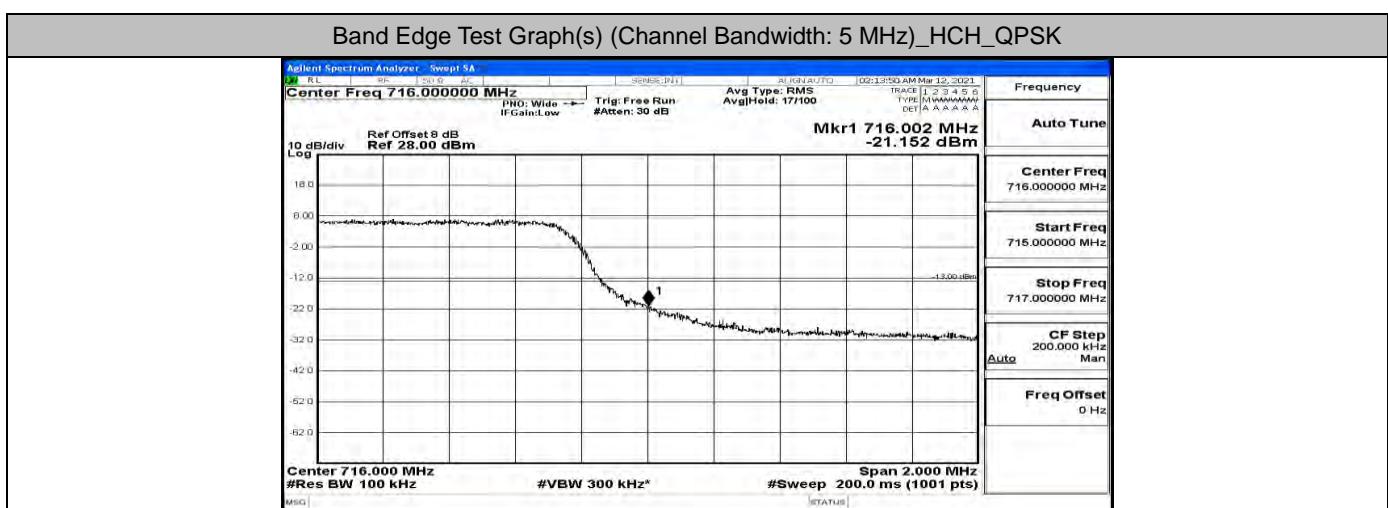
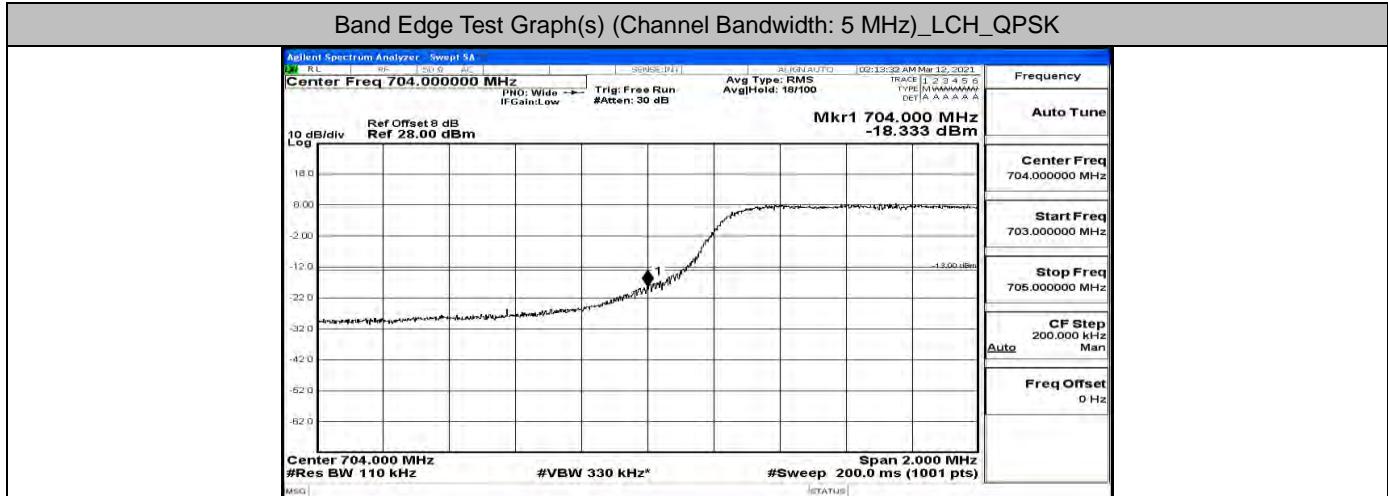
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



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



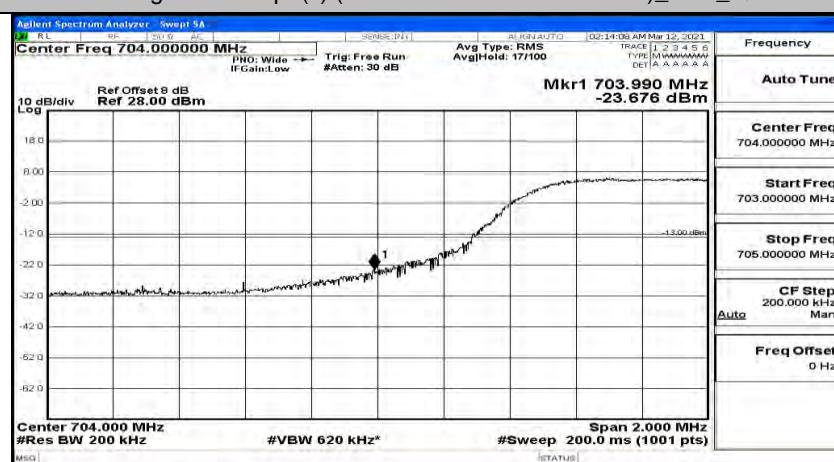
I.4 Band Edge



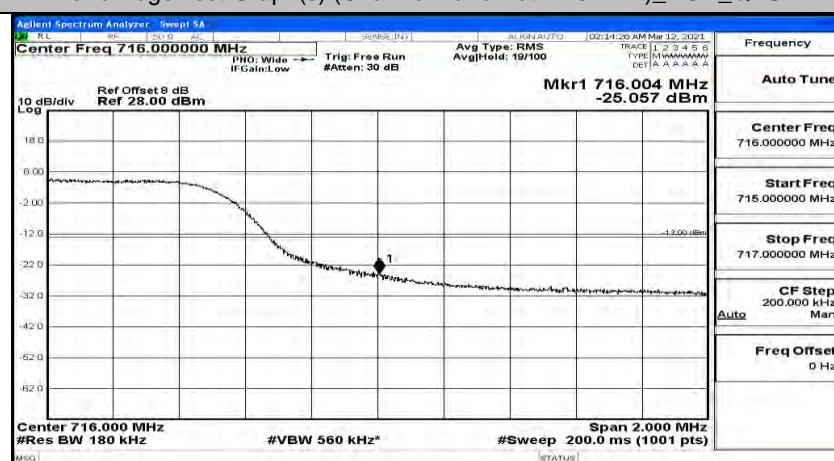
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



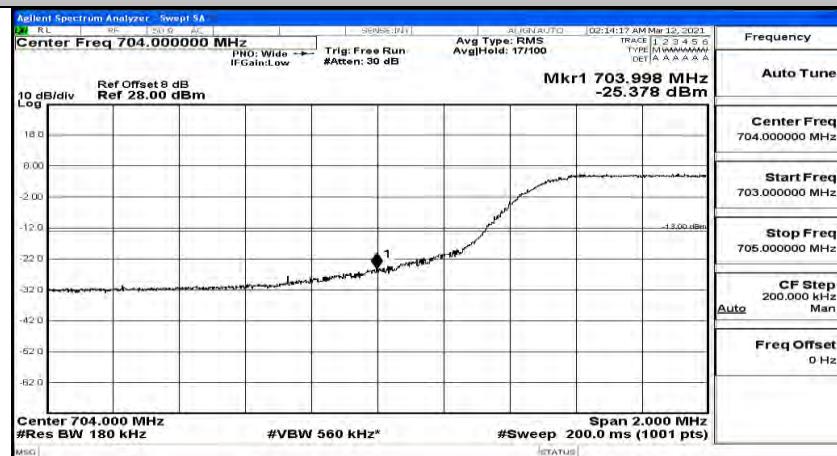
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



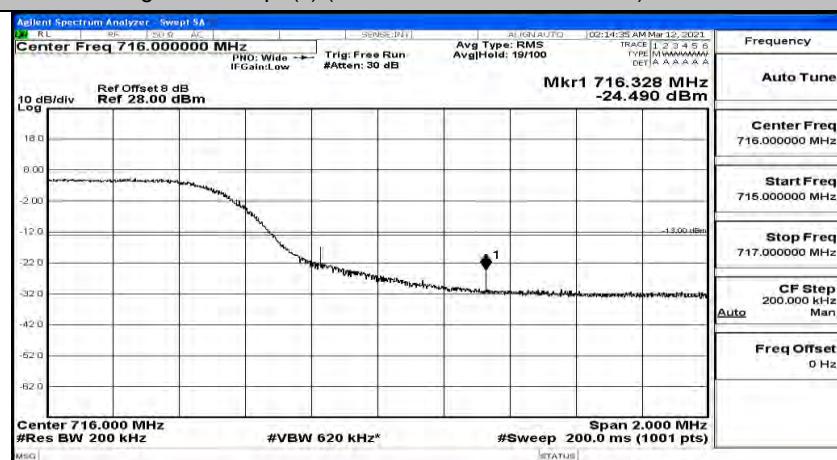
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



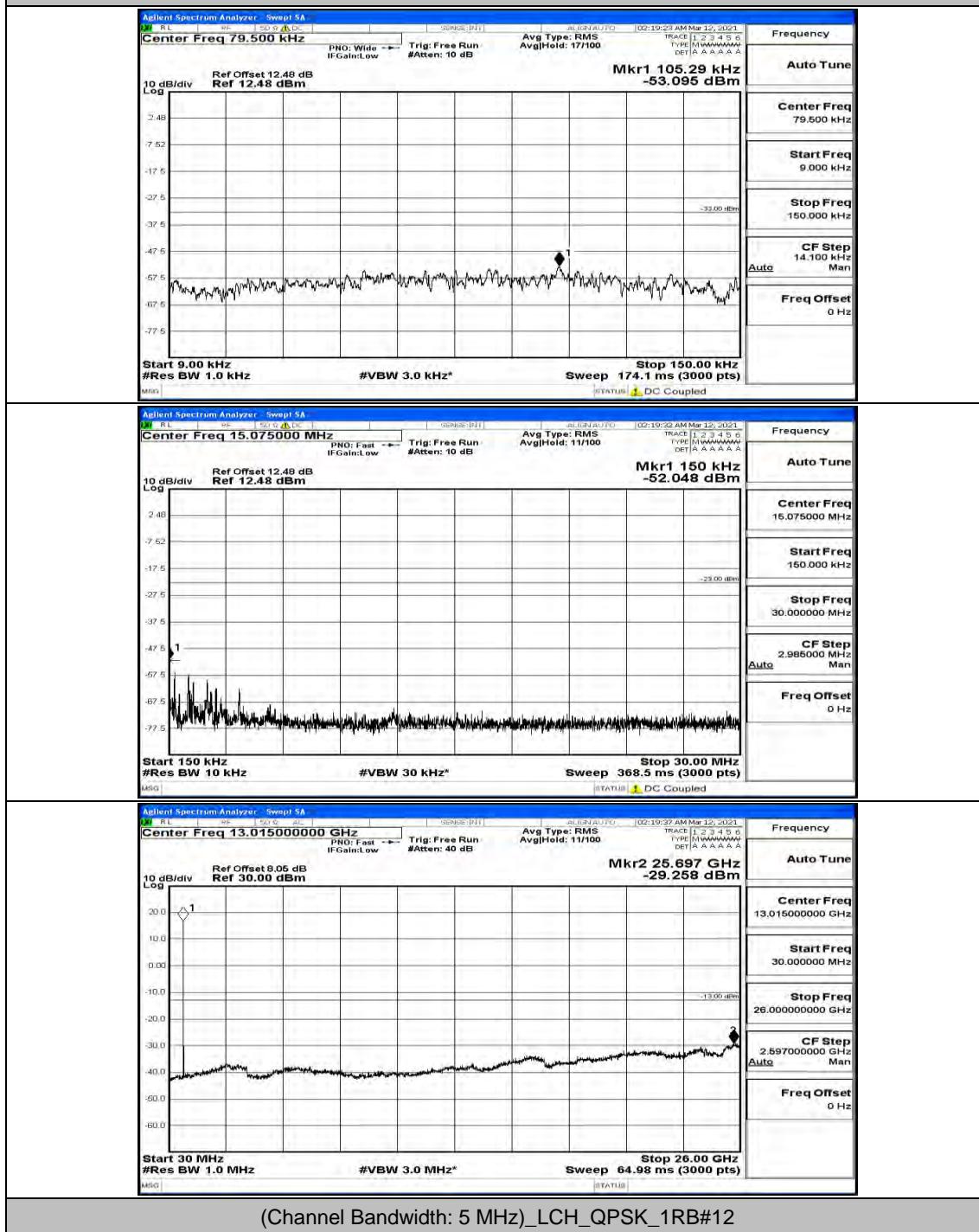
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



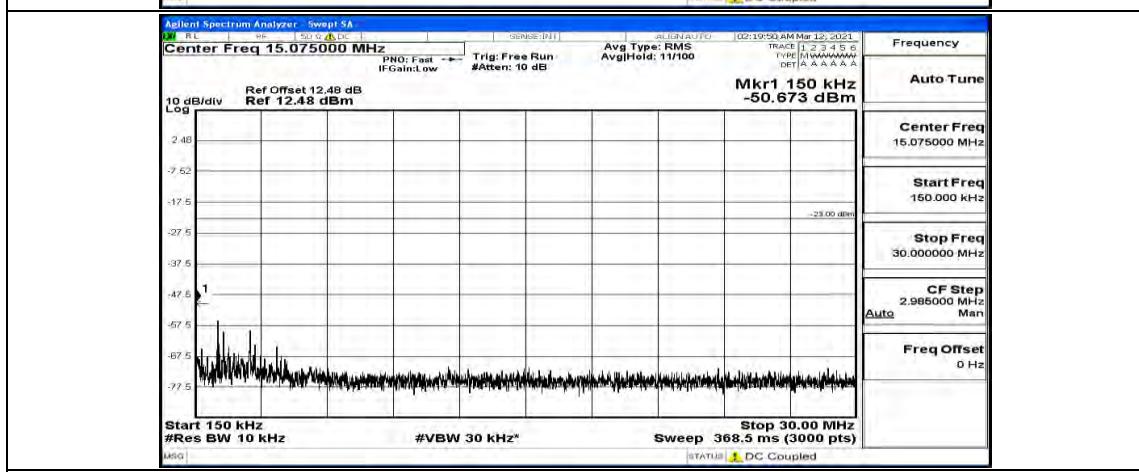
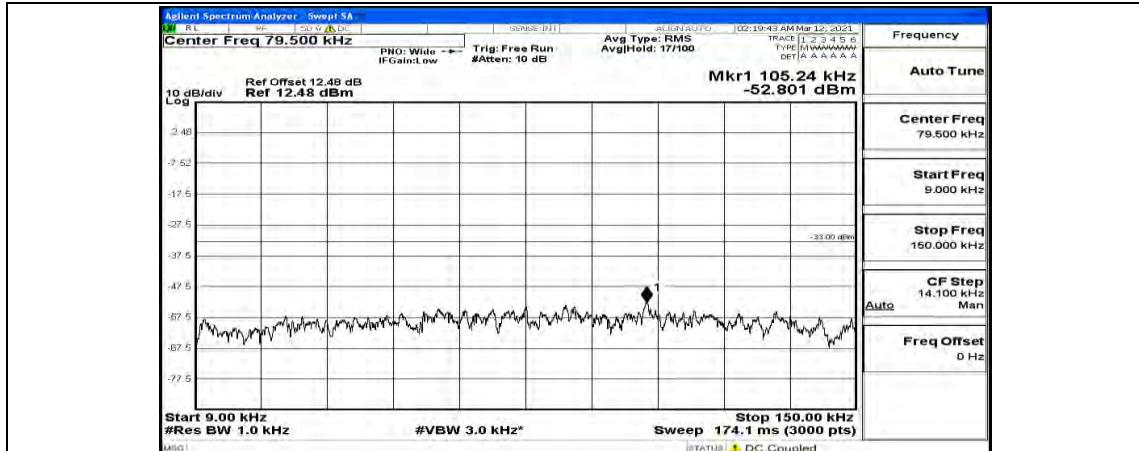
I.5 Conducted Spurious Emission

Channel Bandwidth: 5 MHz

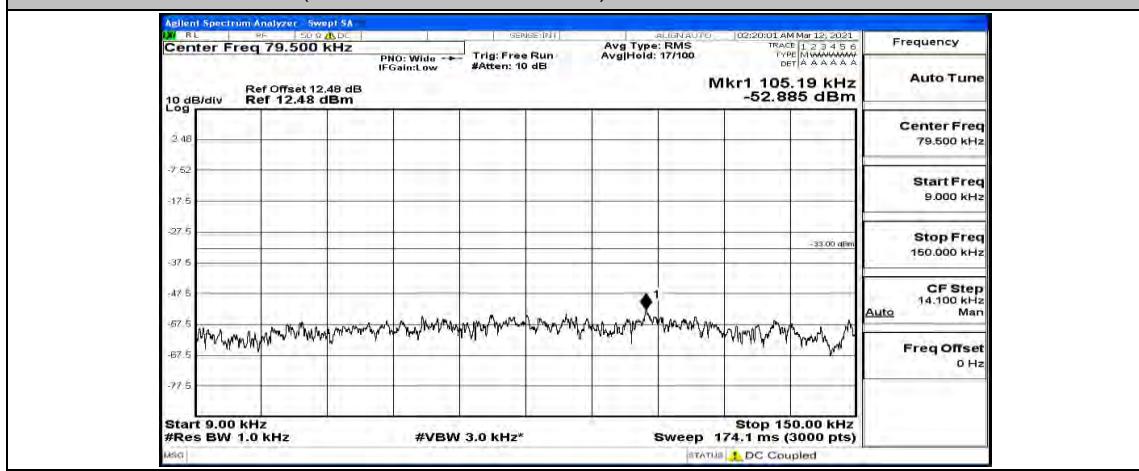
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

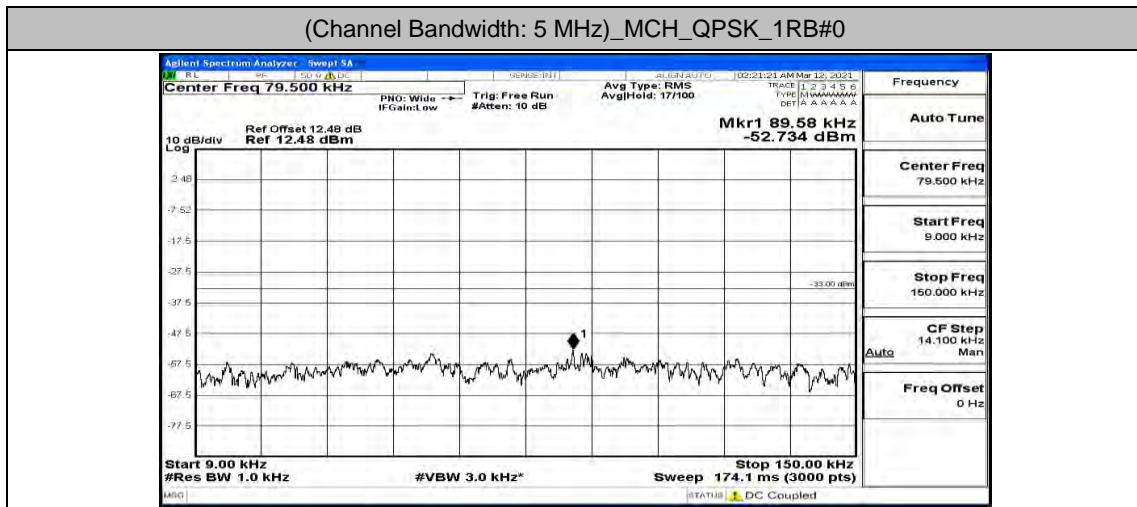
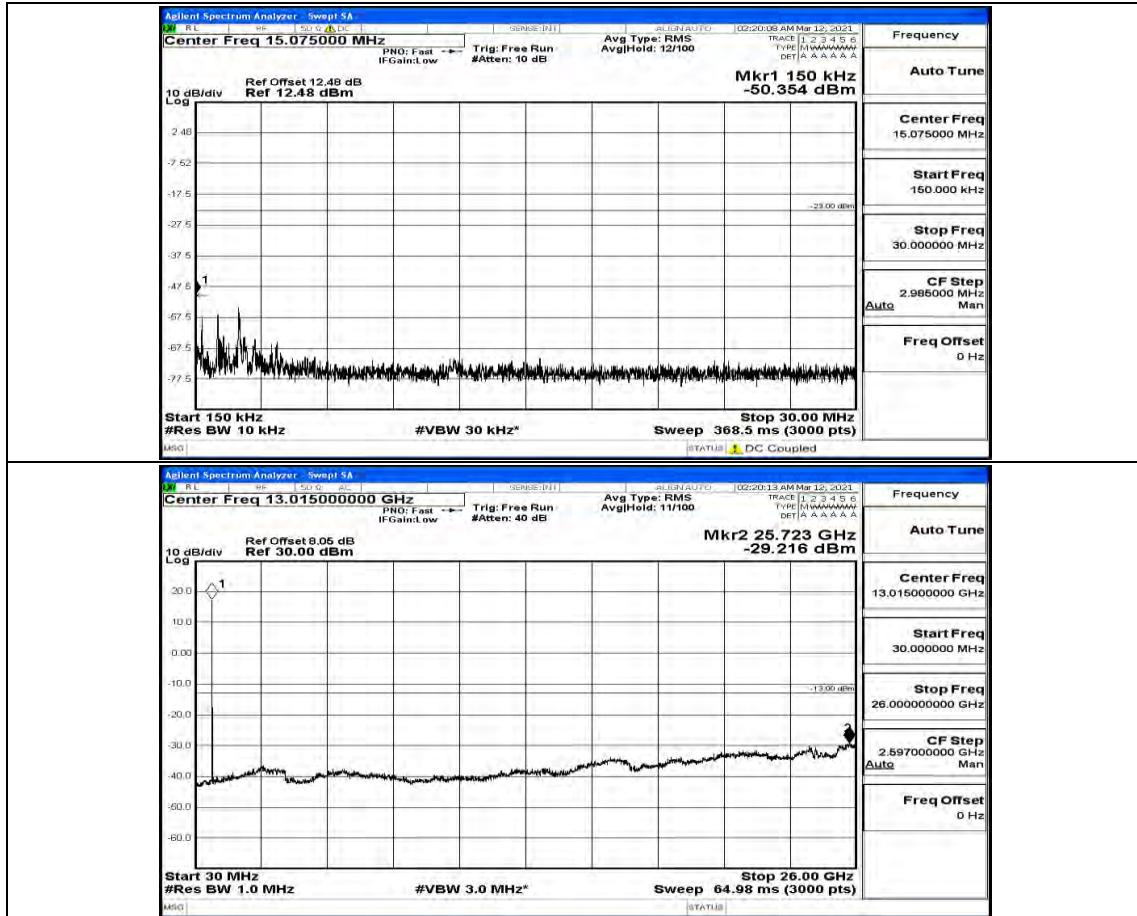


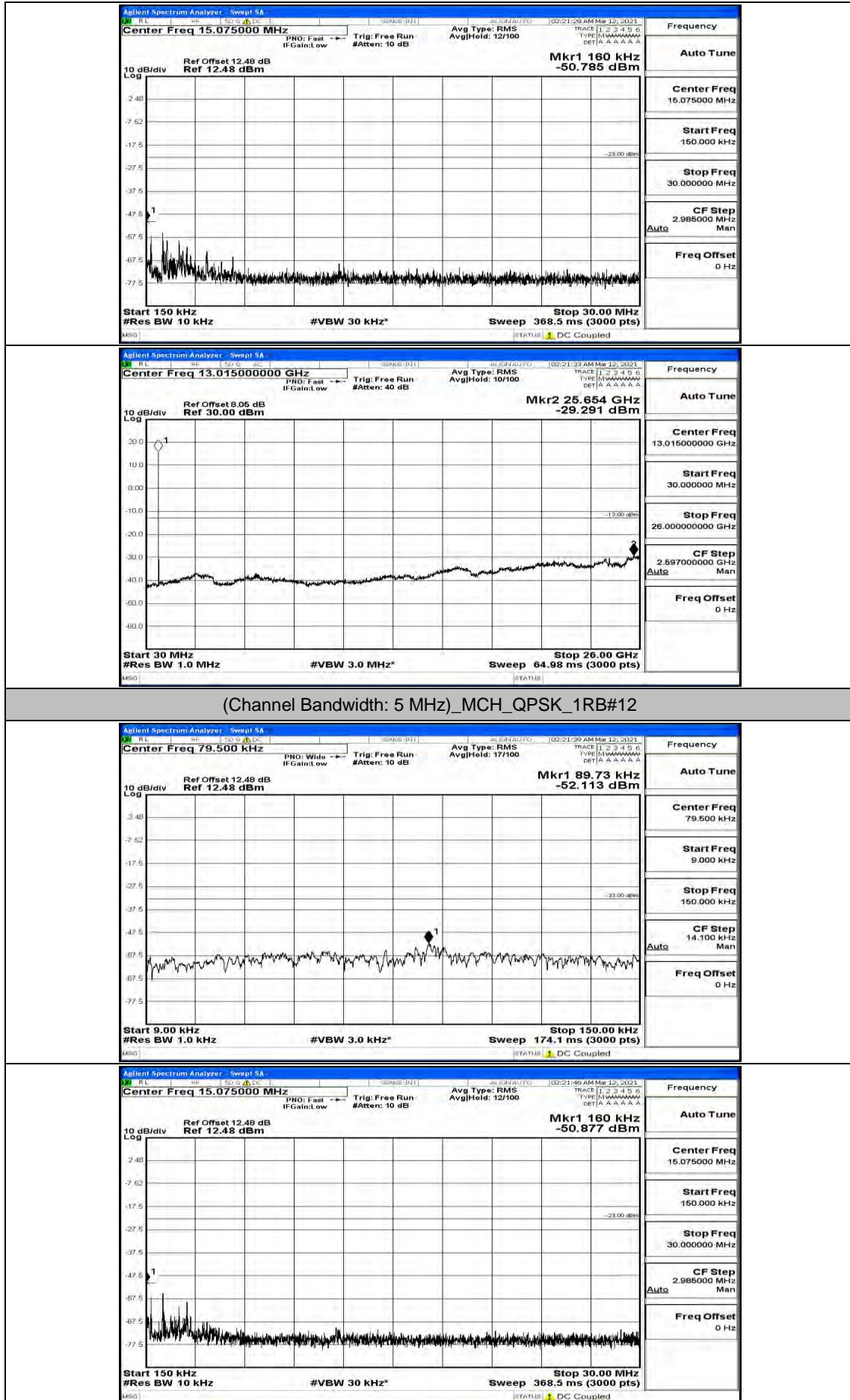
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

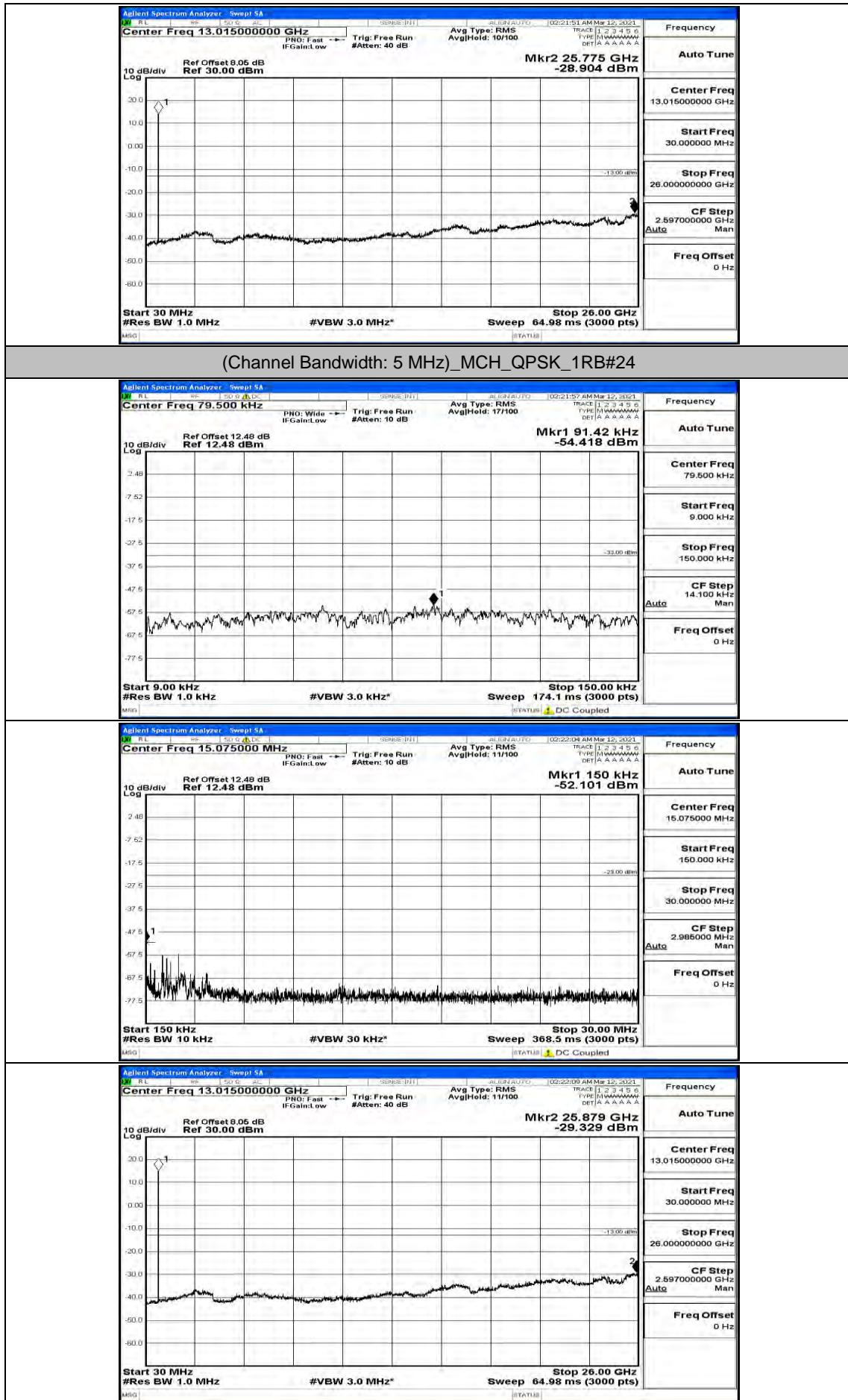


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

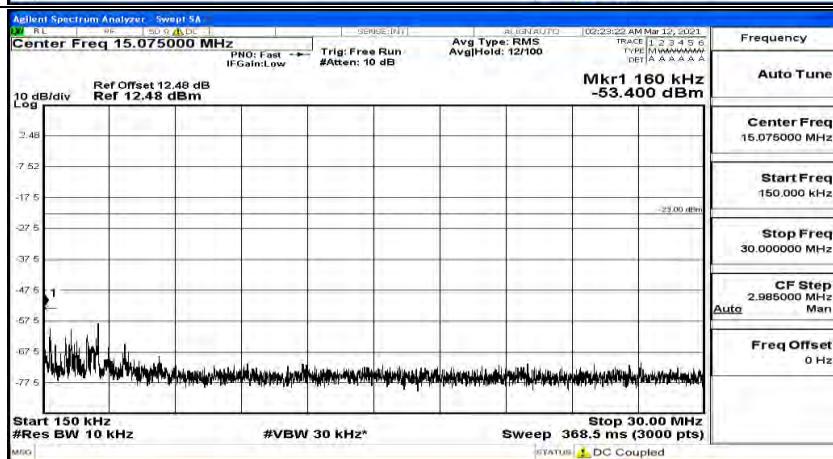
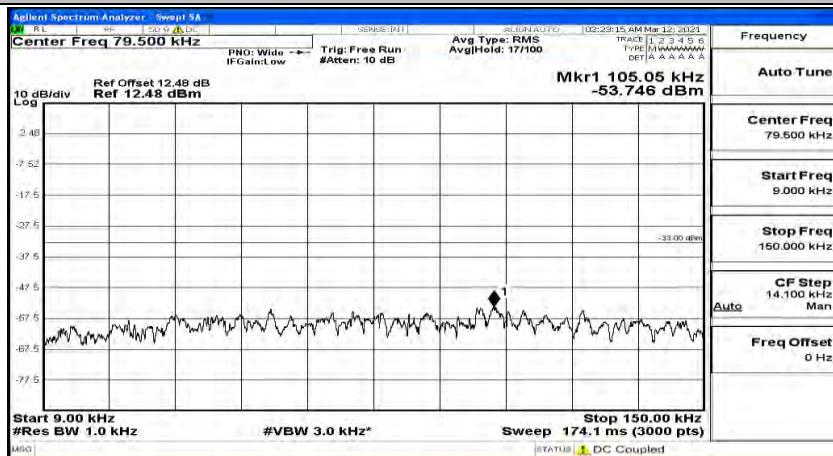




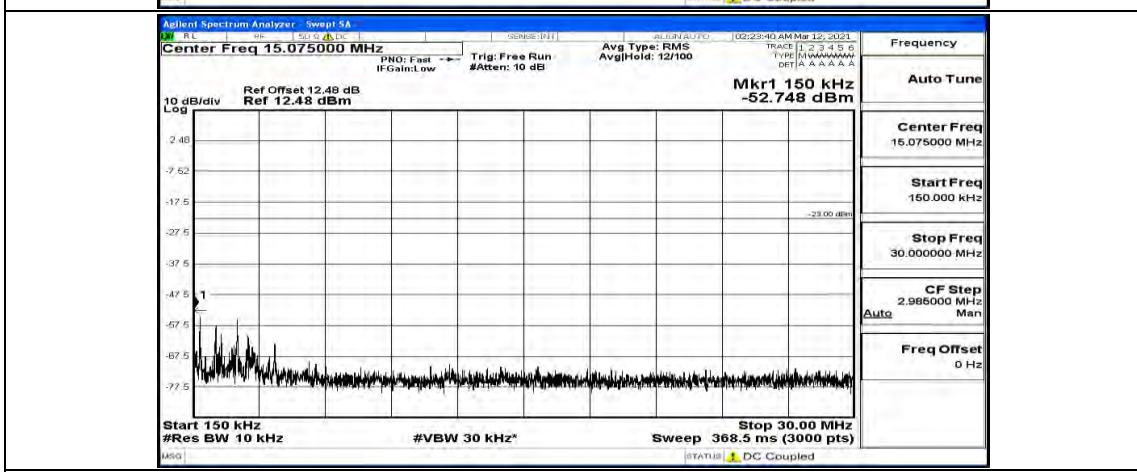
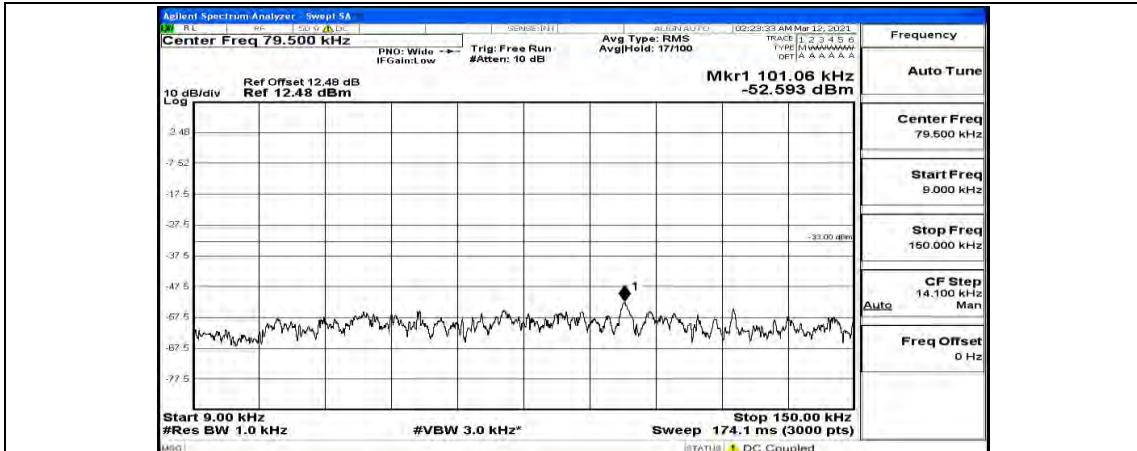




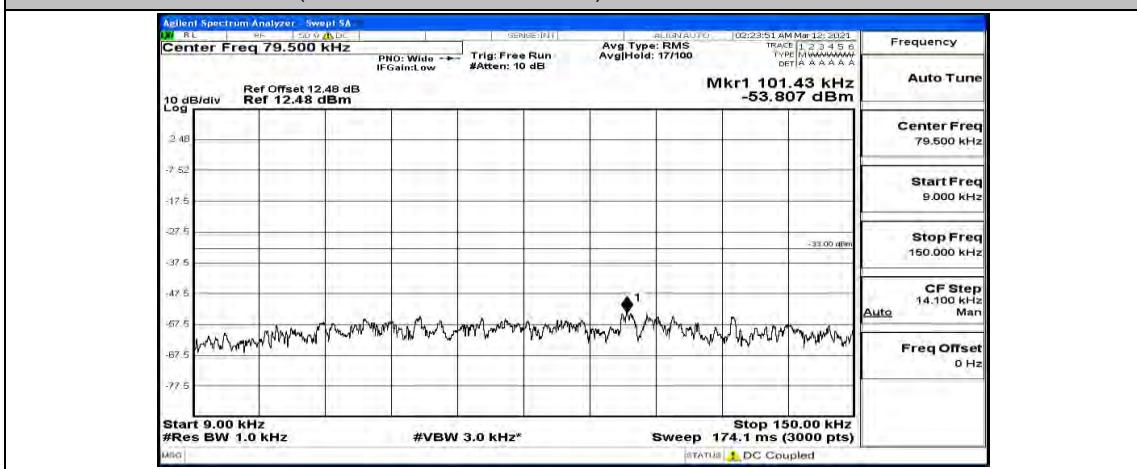
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

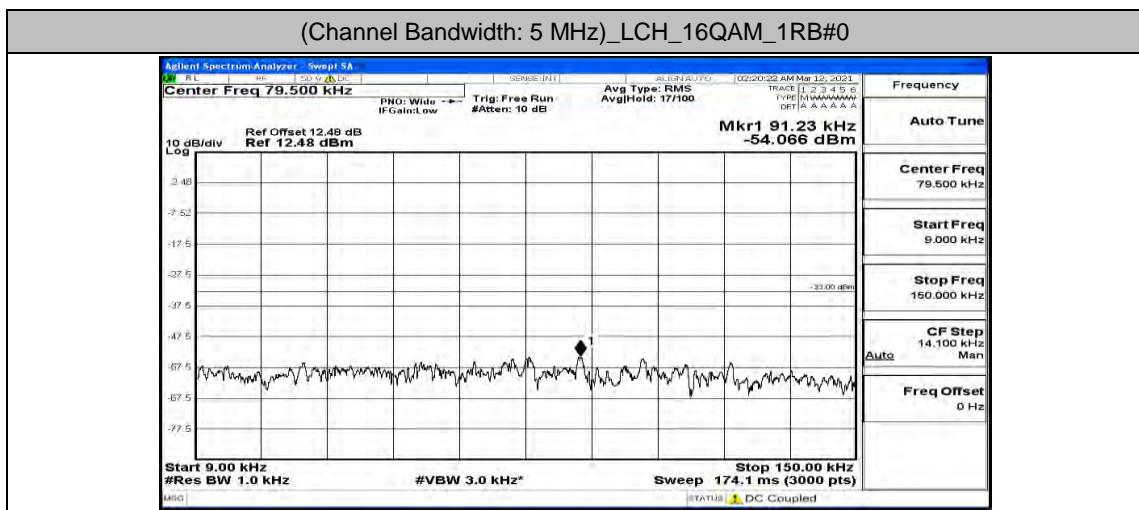
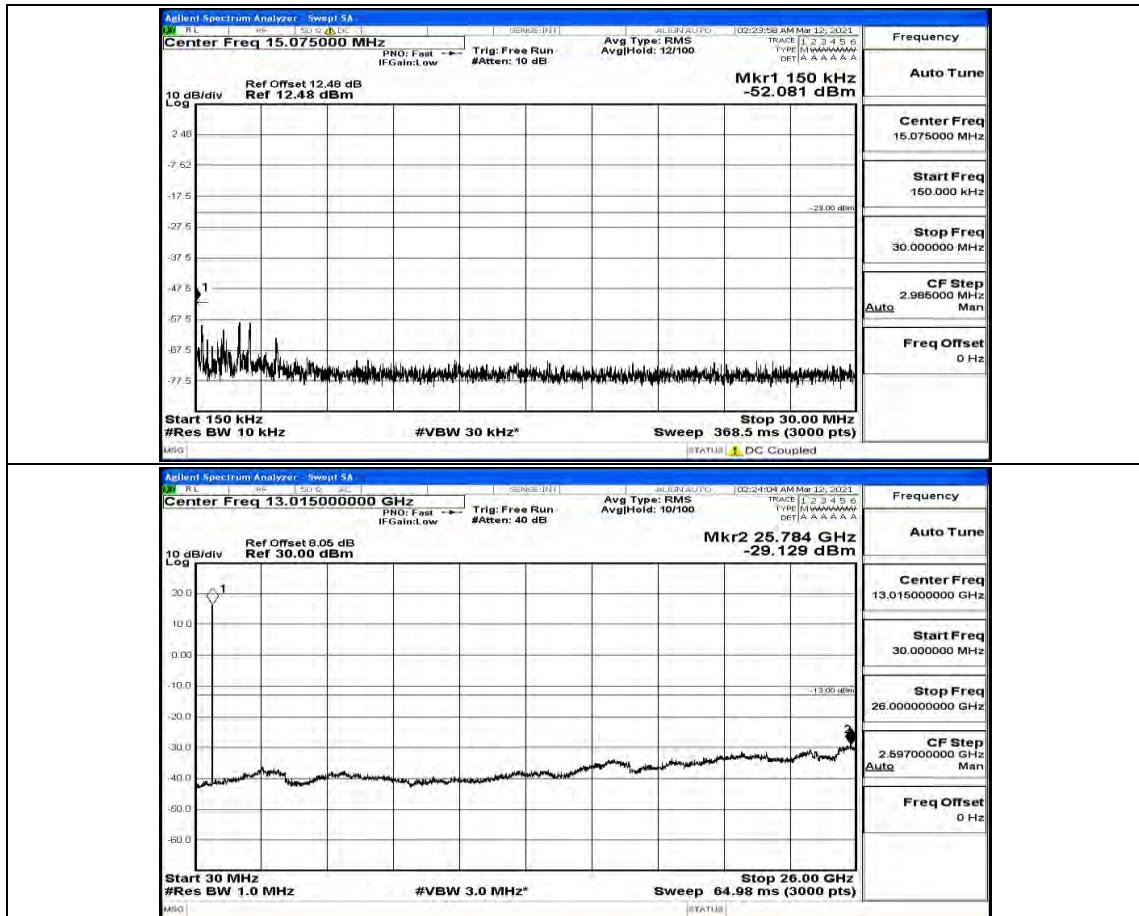


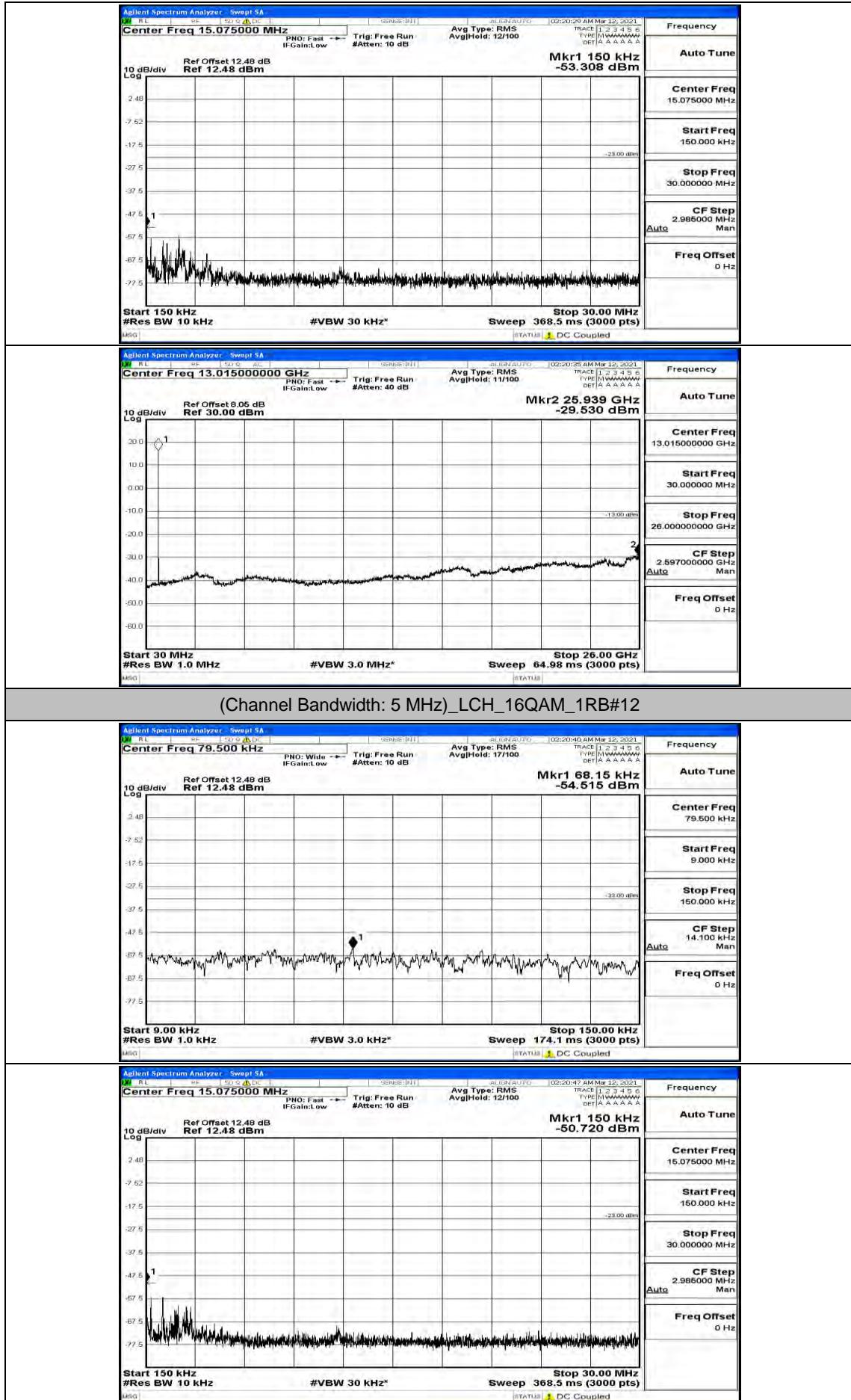
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

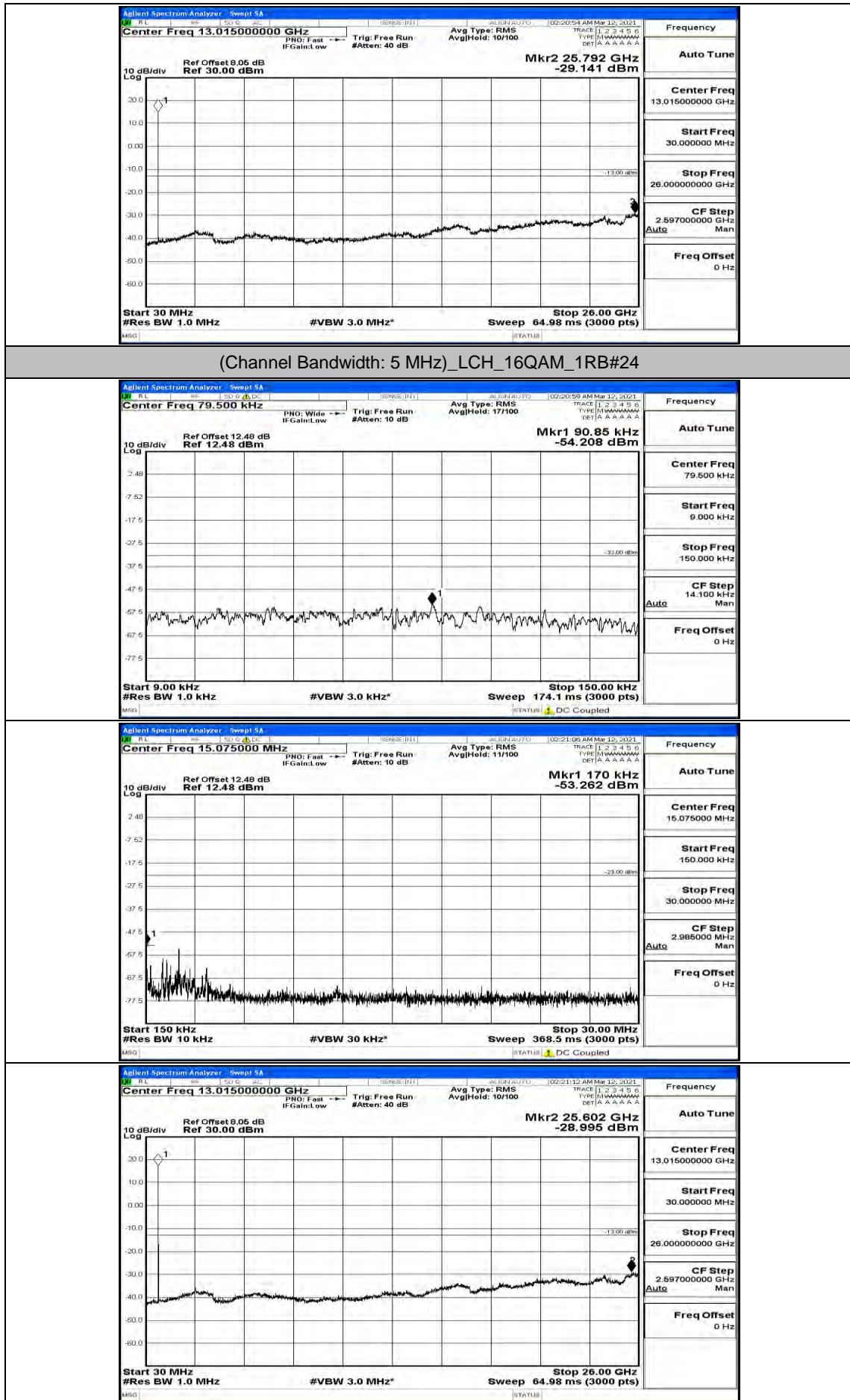


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

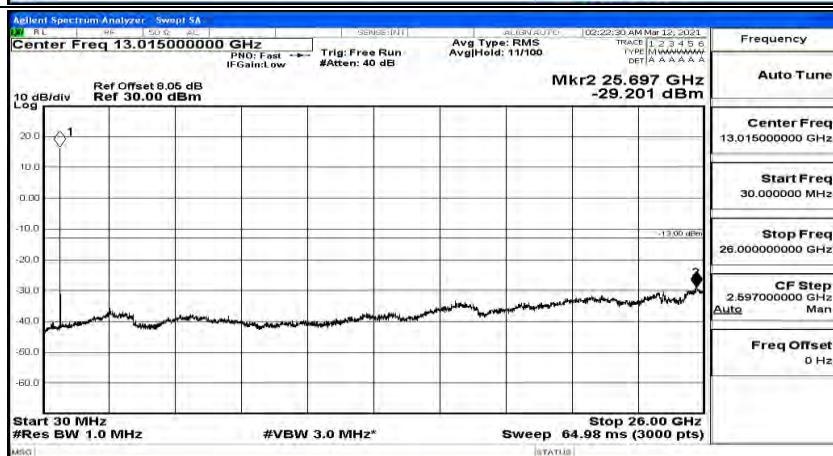
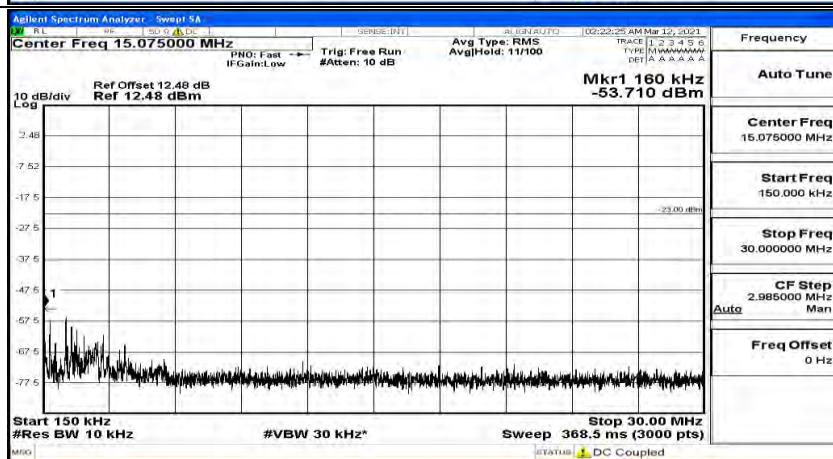
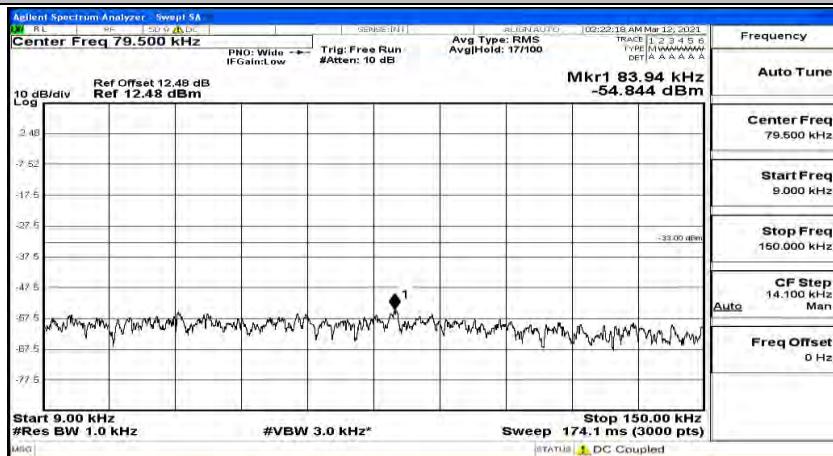




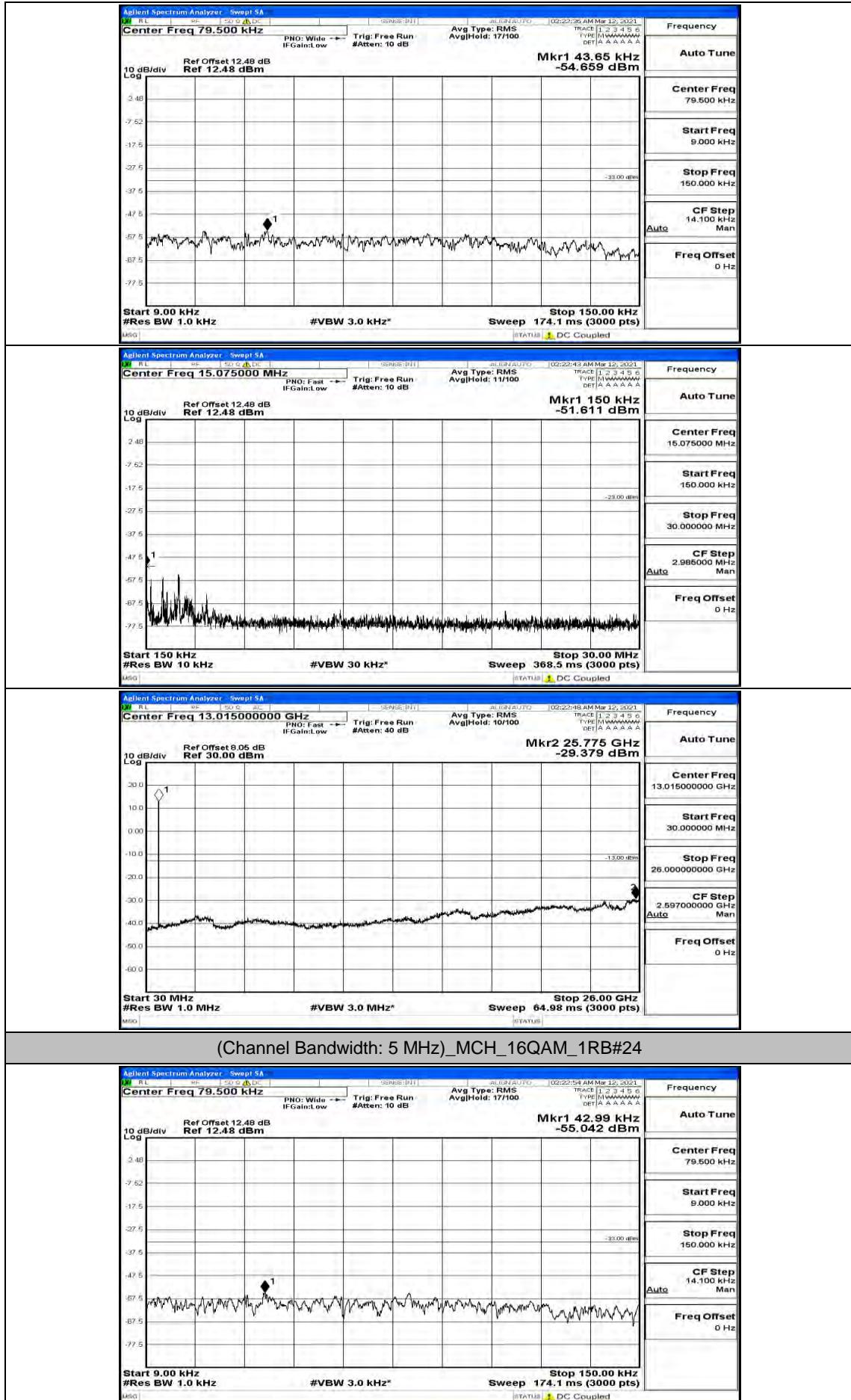


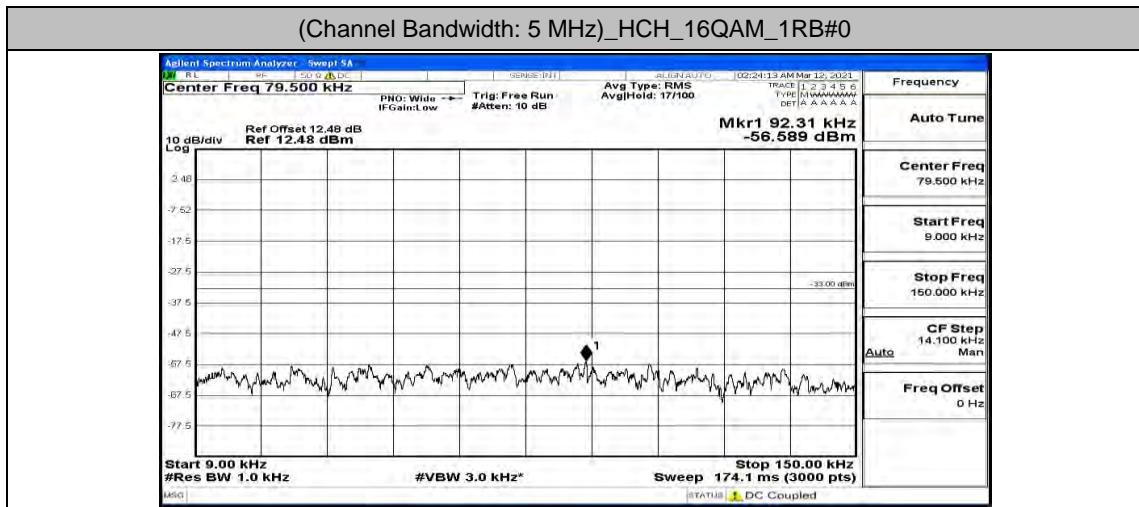
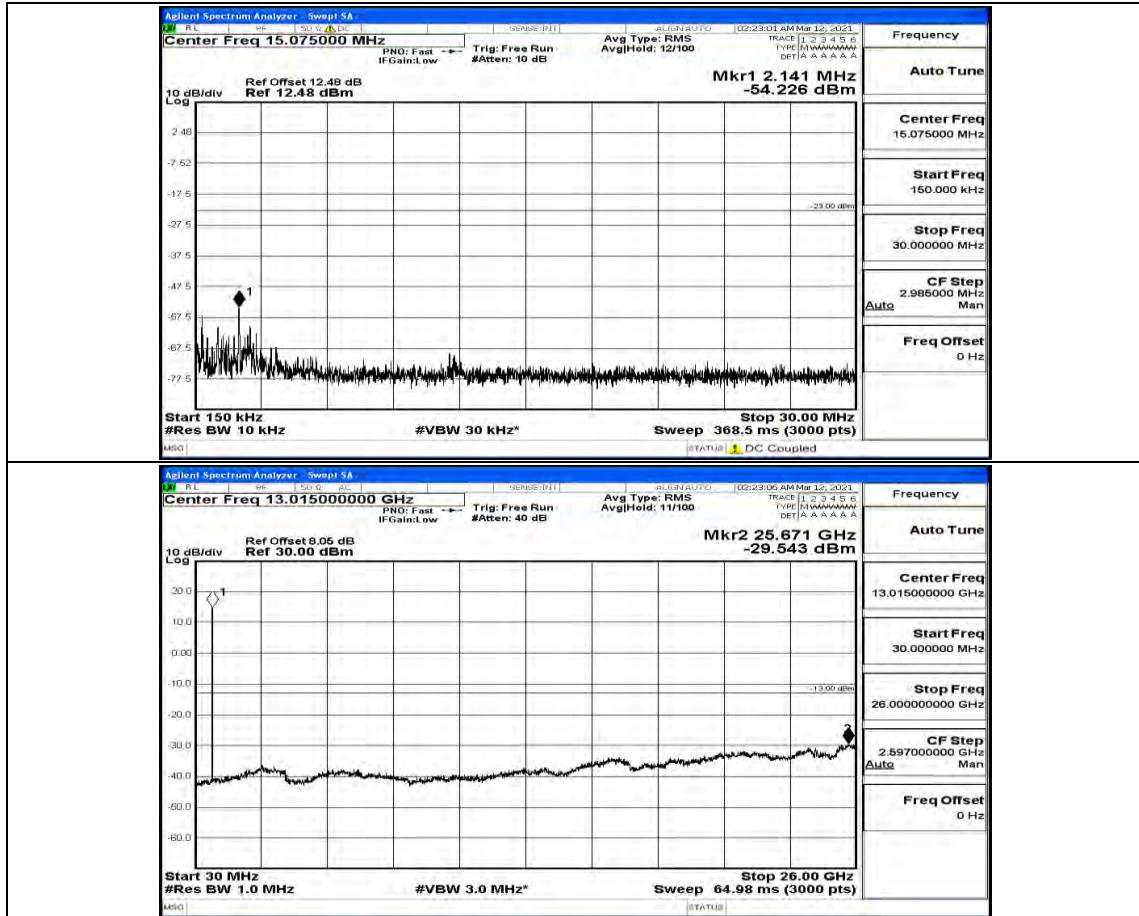


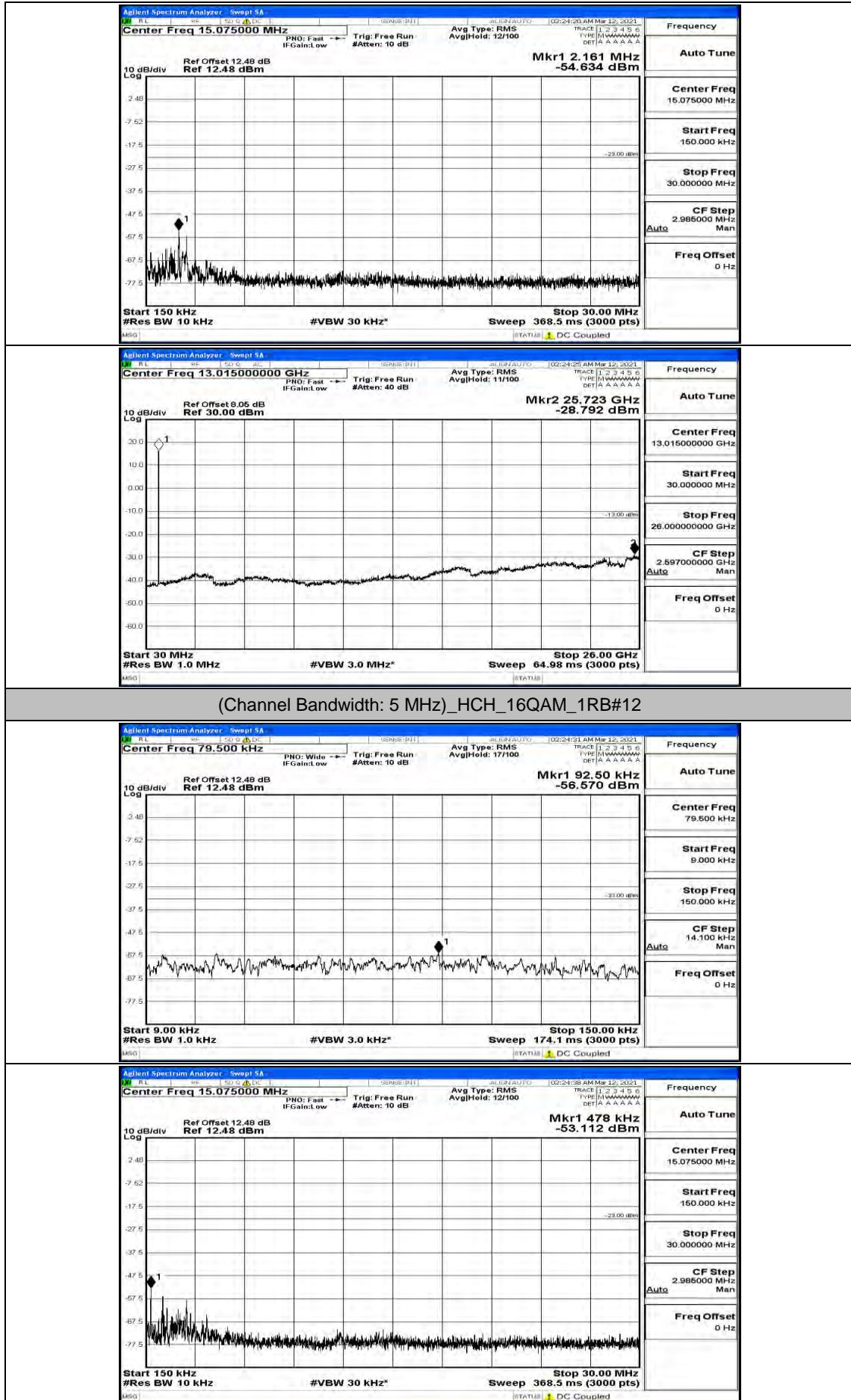
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

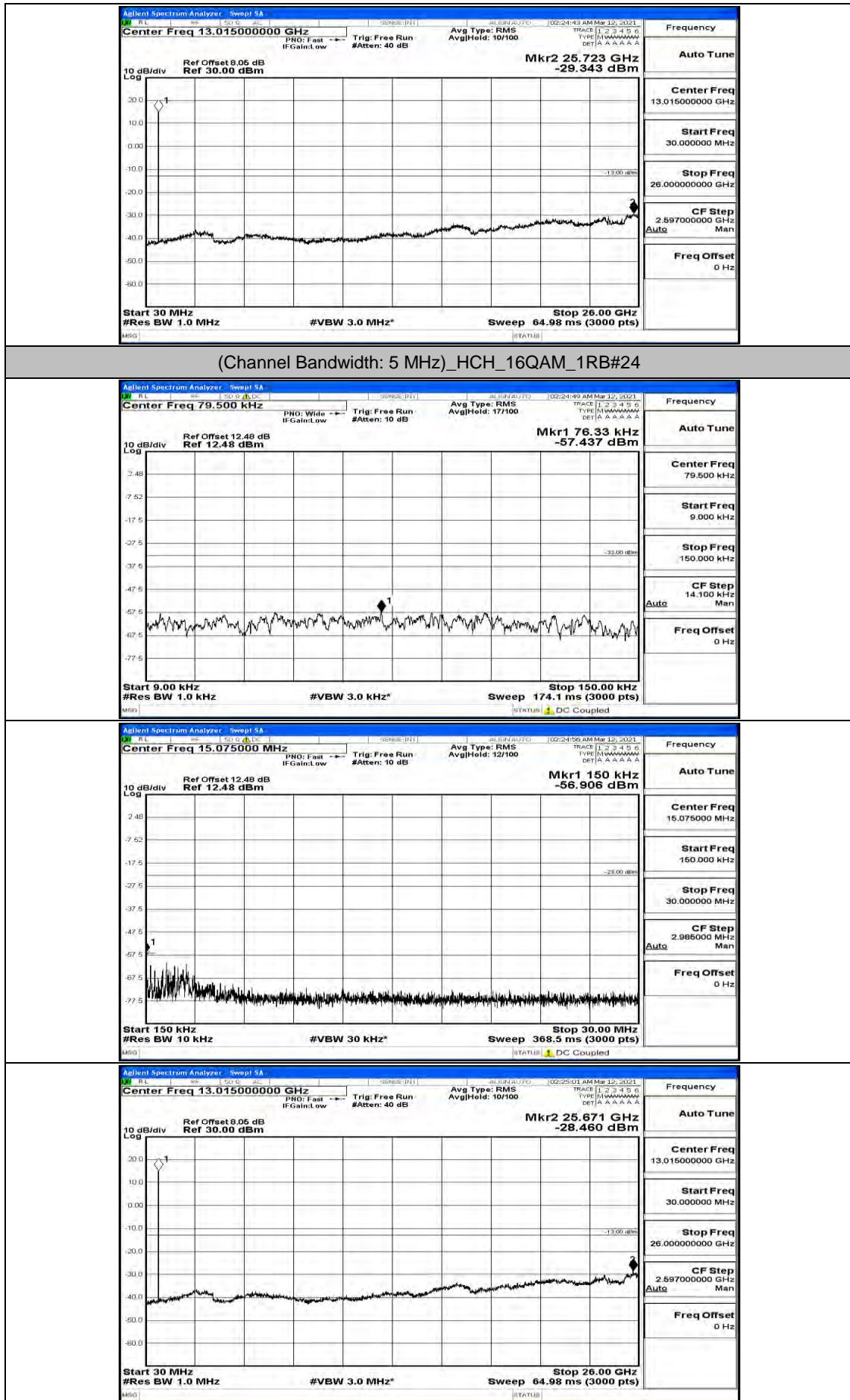


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

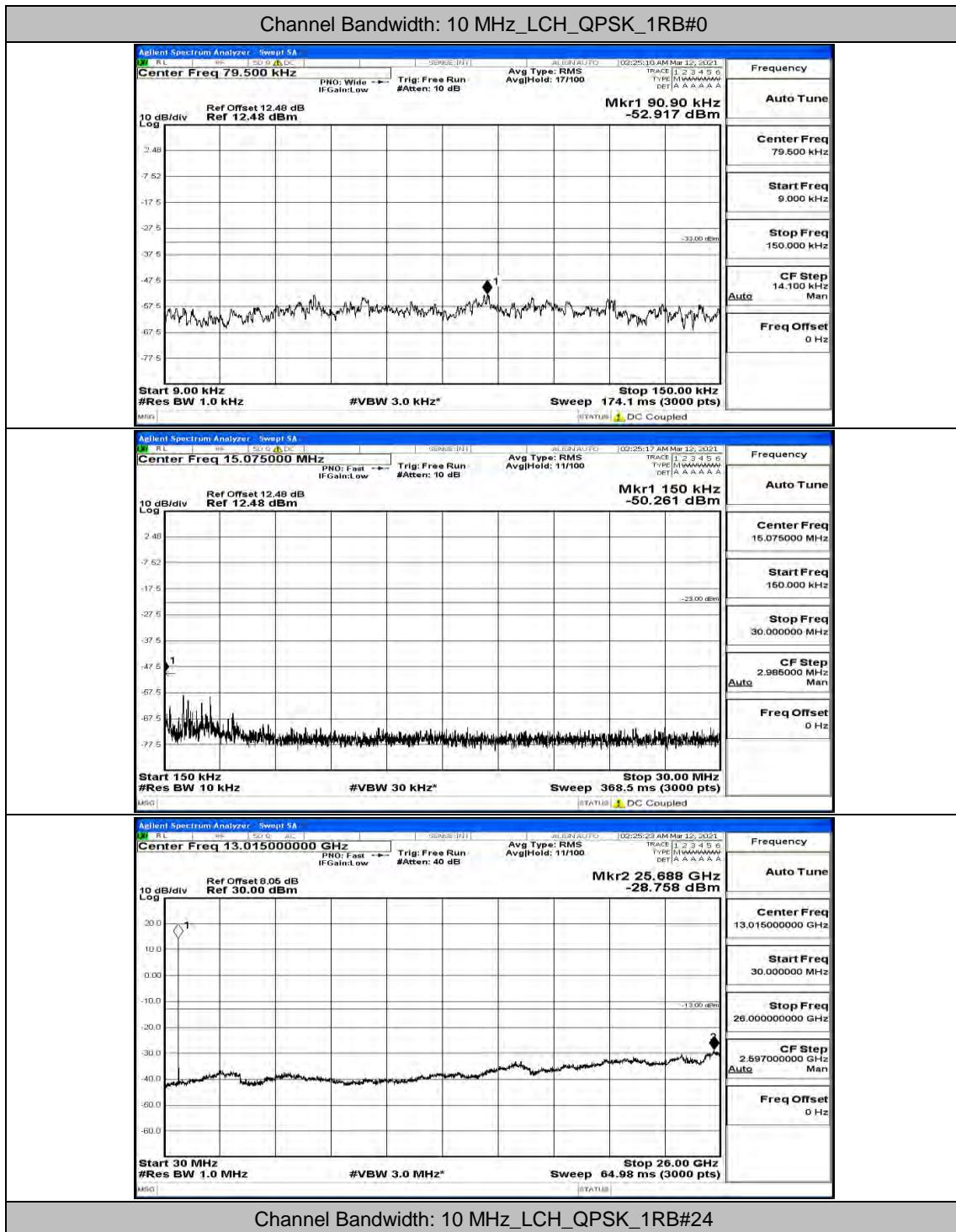


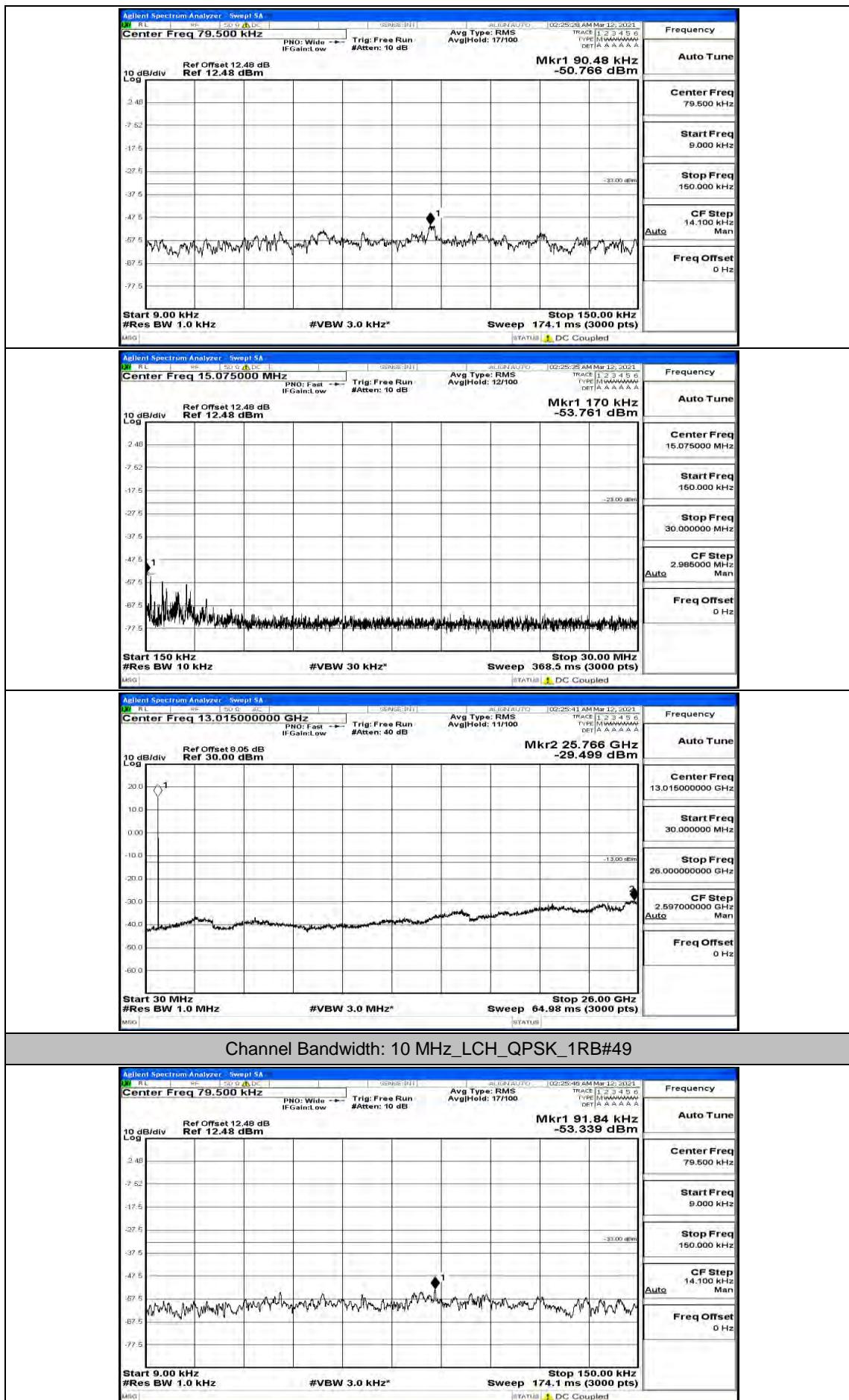


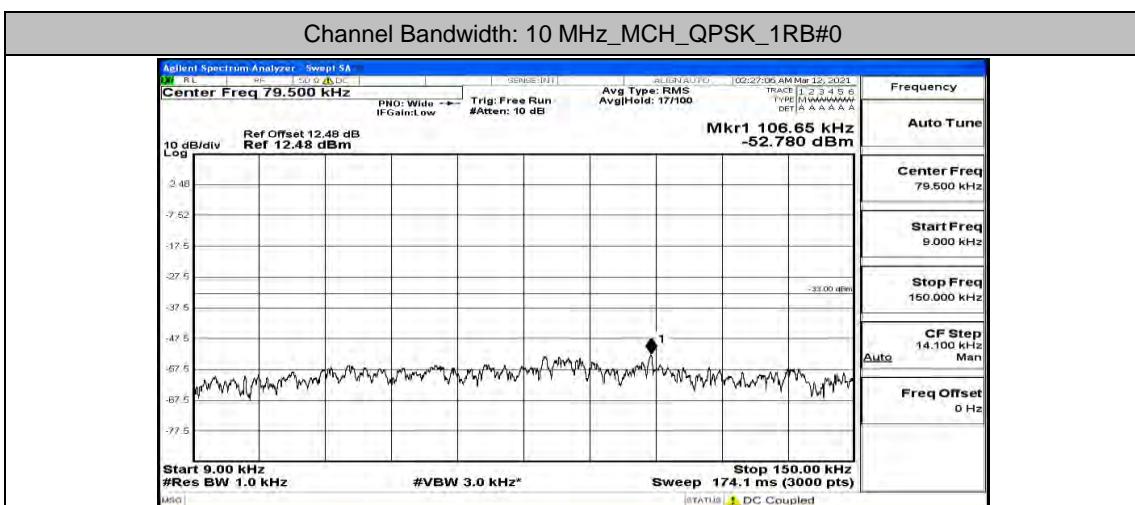
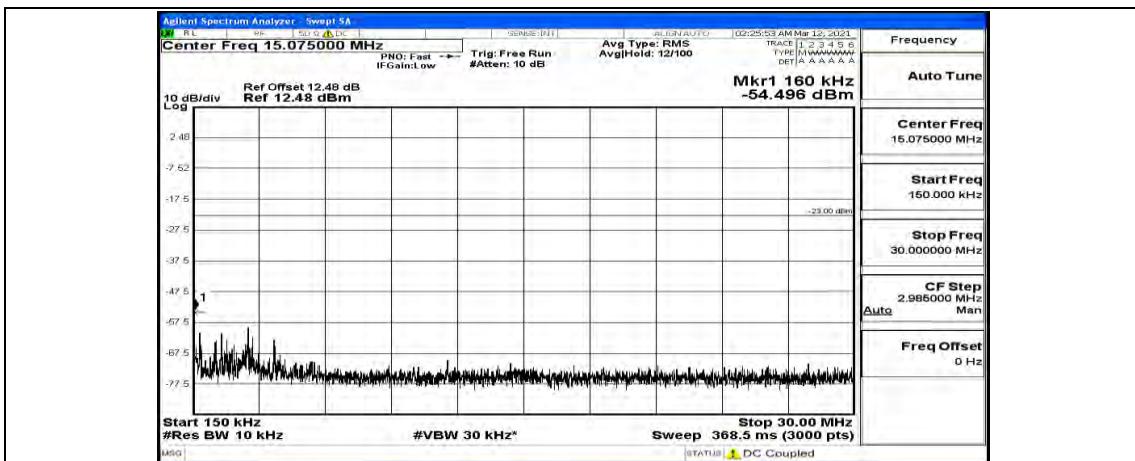


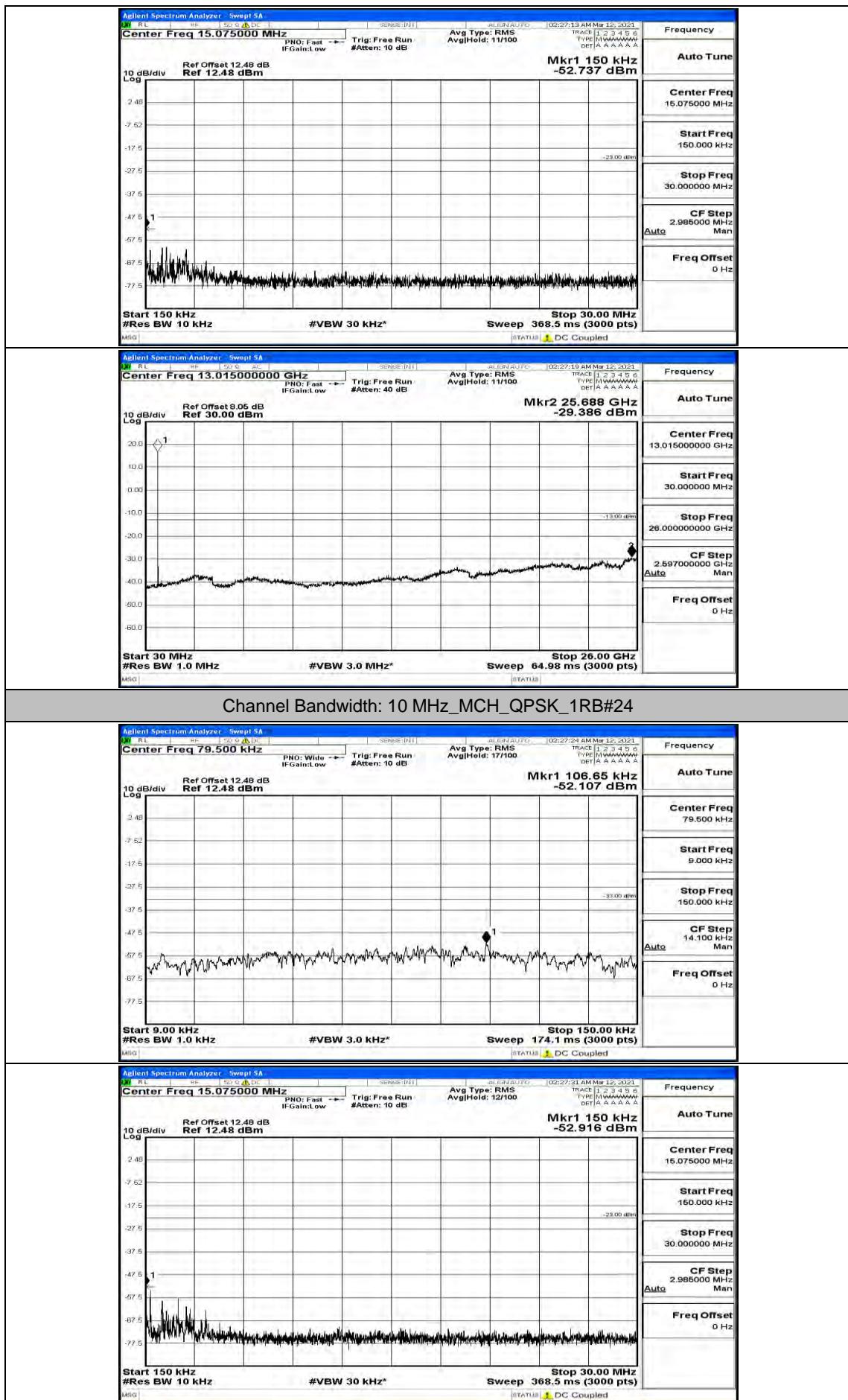


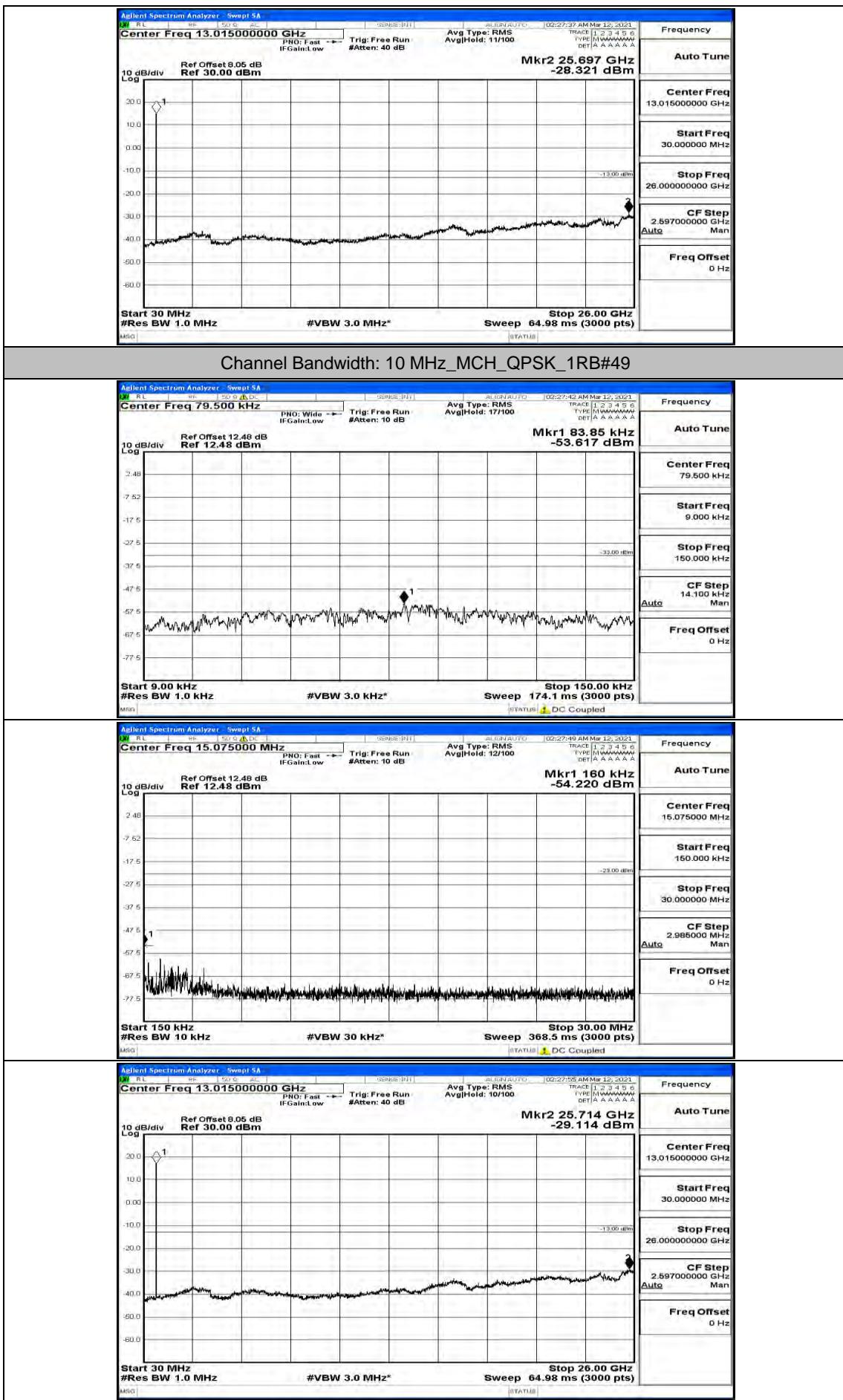
Channel Bandwidth: 10 MHz

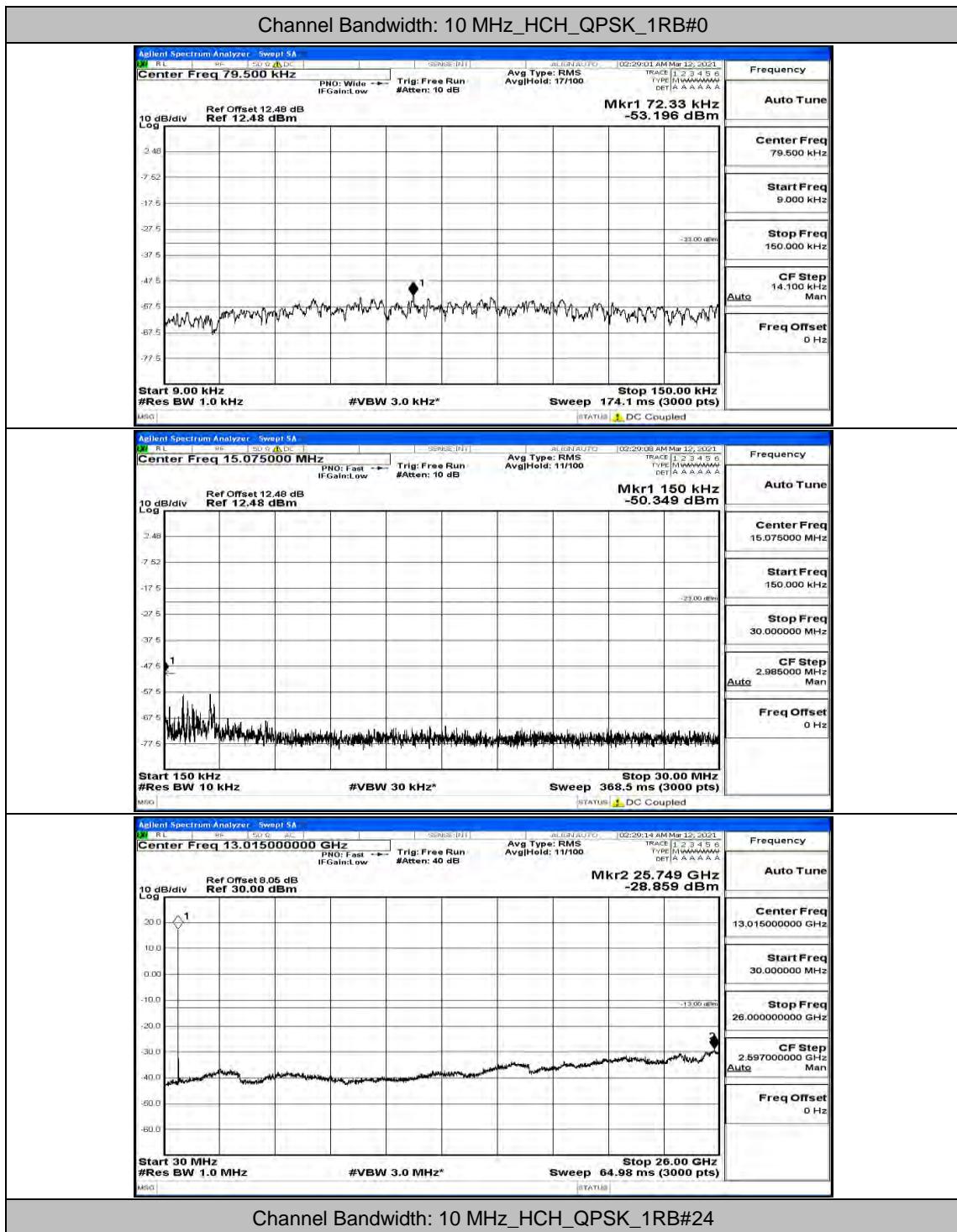




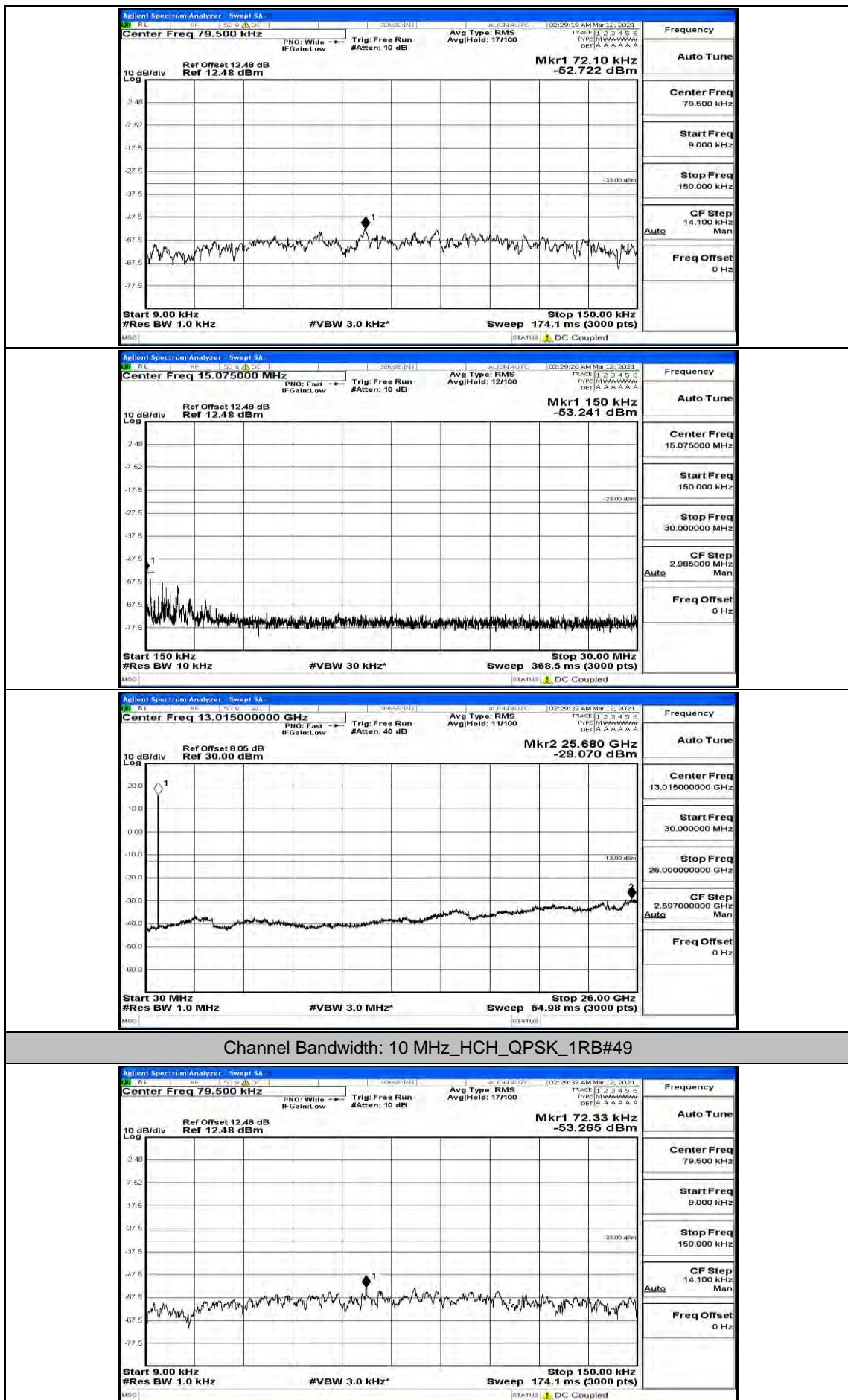


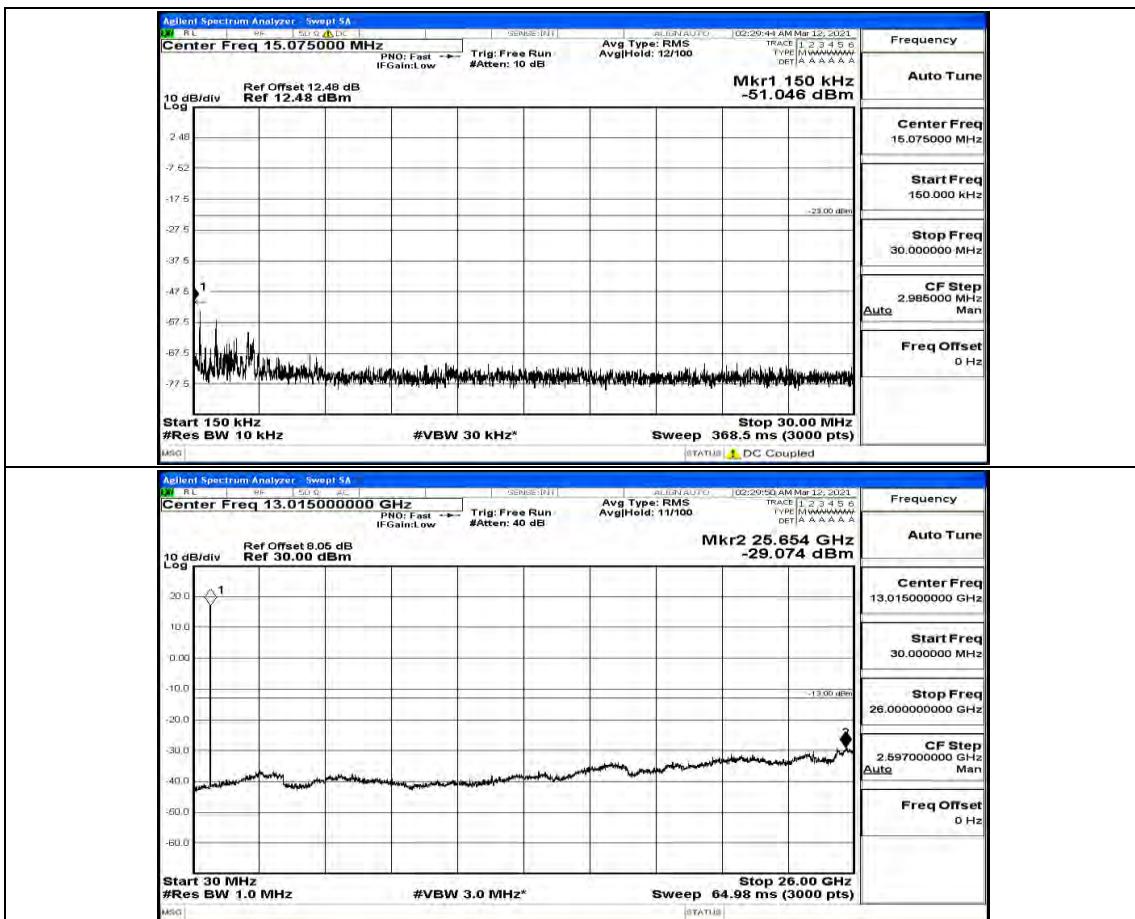






Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24





Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

