

Appendix E: Test Data for E-UTRA Band 7

Product Name: Smart phone

Trade Mark: S SMOOTH

Test Model: SMOOTH 5.5

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

E.1 Conducted Output Power

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	21.96	21.52	PASS
		1	12	21.82	21.41	PASS
		1	24	21.79	21.40	PASS
		12	0	21.05	20.13	PASS
		12	6	20.90	20.00	PASS
		12	13	20.94	20.00	PASS
		25	0	20.87	20.18	PASS
	MCH	1	0	22.81	21.38	PASS
		1	12	22.85	21.46	PASS
		1	24	22.84	21.47	PASS
		12	0	21.74	20.66	PASS
		12	6	21.85	20.75	PASS
		12	13	21.84	20.80	PASS
		25	0	21.78	20.90	PASS
	HCH	1	0	22.50	21.34	PASS
		1	12	22.60	21.37	PASS
		1	24	22.66	21.49	PASS
		12	0	21.48	20.53	PASS
		12	6	21.54	20.46	PASS
		12	13	21.66	20.46	PASS
		25	0	21.51	20.74	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	21.93	22.05	PASS
		1	24	21.75	21.90	PASS
		1	49	21.74	21.85	PASS
		25	0	20.94	19.94	PASS
		25	12	20.94	20.00	PASS
		25	25	20.91	19.93	PASS
		50	0	20.95	19.98	PASS
	MCH	1	0	22.77	22.34	PASS
		1	24	22.85	22.45	PASS
		1	49	22.86	22.52	PASS
		25	0	21.85	20.89	PASS
		25	12	21.76	20.91	PASS
		25	25	21.81	20.95	PASS
		50	0	21.83	20.92	PASS
	HCH	1	0	22.36	21.57	PASS
		1	24	22.51	21.65	PASS
		1	49	22.68	21.85	PASS
		25	0	21.31	20.42	PASS
		25	12	21.50	20.57	PASS
		25	25	21.47	20.65	PASS
		50	0	21.38	20.56	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.87	22.07	PASS
		1	37	21.77	21.83	PASS
		1	74	21.80	22.01	PASS
		37	0	20.86	20.02	PASS
		37	18	20.93	19.85	PASS
		37	38	20.95	19.90	PASS
		75	0	20.81	20.02	PASS
	MCH	1	0	22.67	22.60	PASS
		1	37	22.80	22.80	PASS
		1	74	22.86	22.87	PASS
		37	0	21.81	20.81	PASS
		37	18	21.74	20.98	PASS
		37	38	21.92	20.93	PASS
		75	0	21.68	20.96	PASS
	HCH	1	0	22.33	21.54	PASS
		1	37	22.44	21.51	PASS
		1	74	22.64	21.77	PASS
		37	0	21.22	20.36	PASS
		37	18	21.36	20.47	PASS
		37	38	21.42	20.54	PASS
		75	0	21.39	20.54	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.00	20.84	PASS
		1	49	21.84	20.67	PASS
		1	99	22.08	21.46	PASS
		50	0	20.98	20.02	PASS
		50	25	20.93	20.00	PASS
		50	50	21.06	20.14	PASS
		100	0	20.98	19.94	PASS
	MCH	1	0	22.64	21.46	PASS
		1	49	23.10	21.81	PASS
		1	99	22.98	21.75	PASS
		50	0	21.78	20.80	PASS
		50	25	21.77	20.89	PASS
		50	50	21.91	20.94	PASS
		100	0	21.75	20.76	PASS
	HCH	1	0	22.43	21.72	PASS
		1	49	22.21	21.62	PASS
		1	99	22.43	21.80	PASS
		50	0	21.27	20.31	PASS
		50	25	21.19	20.30	PASS
		50	50	21.40	20.42	PASS
		100	0	21.28	20.41	PASS

E.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	5.19	<13	PASS
	MCH	5.48	<13	PASS
	HCH	5.34	<13	PASS
16QAM	LCH	5.93	<13	PASS
	MCH	6.17	<13	PASS
	HCH	5.97	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.47	<13	PASS
	MCH	5.6	<13	PASS
	HCH	5.4	<13	PASS
16QAM	LCH	6.14	<13	PASS
	MCH	6.27	<13	PASS
	HCH	6.13	<13	PASS

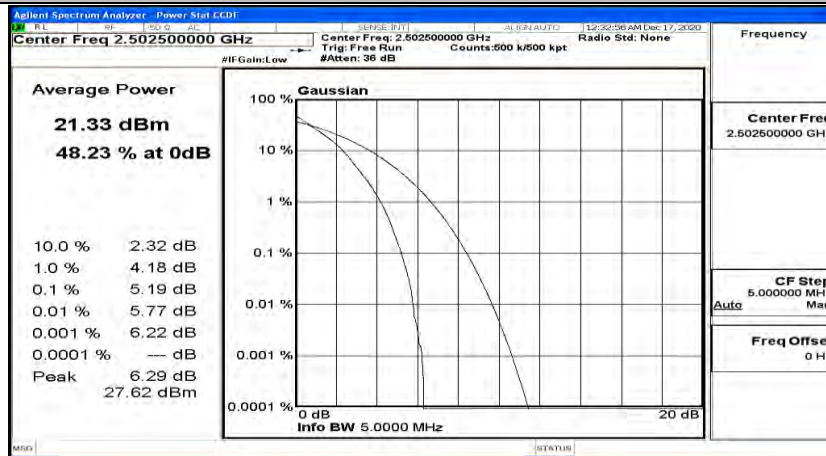
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	4.98	<13	PASS
	HCH	4.88	<13	PASS
16QAM	LCH	6.23	<13	PASS
	MCH	6.23	<13	PASS
	HCH	6.13	<13	PASS

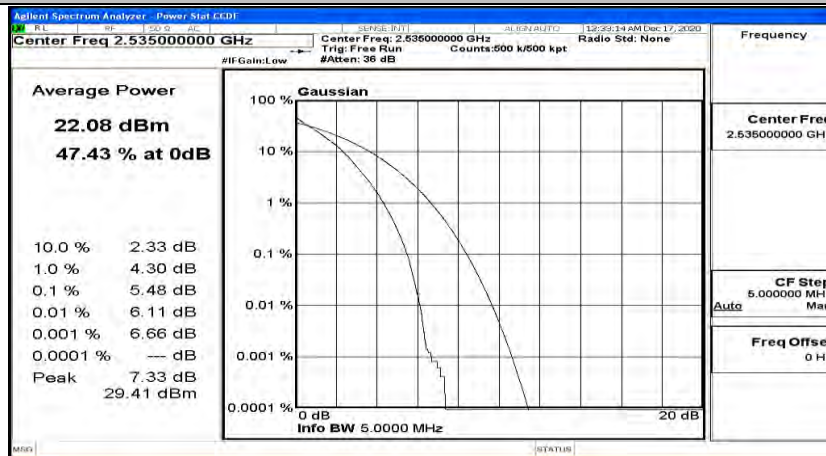
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.76	<13	PASS
	MCH	5.76	<13	PASS
	HCH	5.69	<13	PASS
16QAM	LCH	6.76	<13	PASS
	MCH	6.66	<13	PASS
	HCH	6.69	<13	PASS

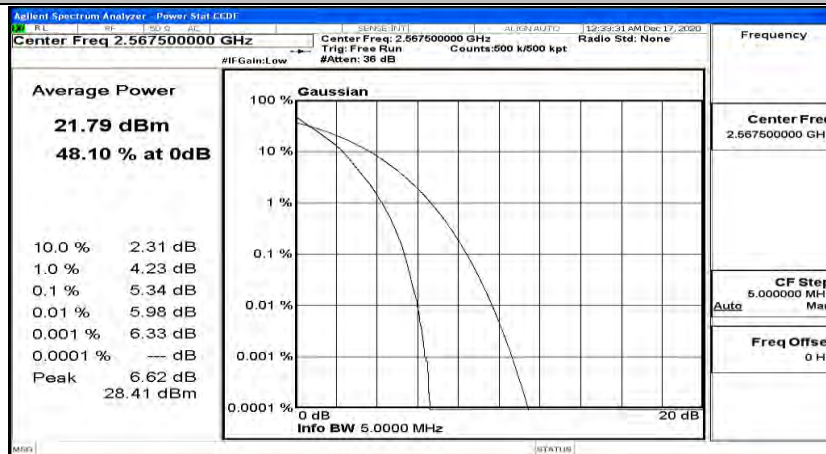
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



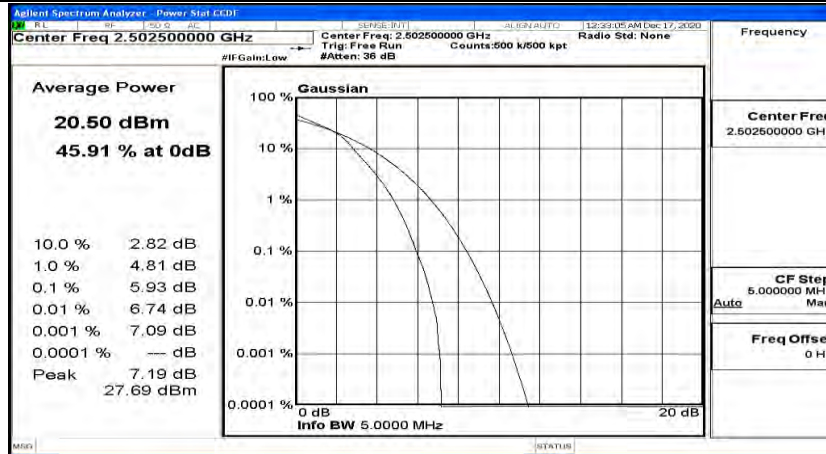
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



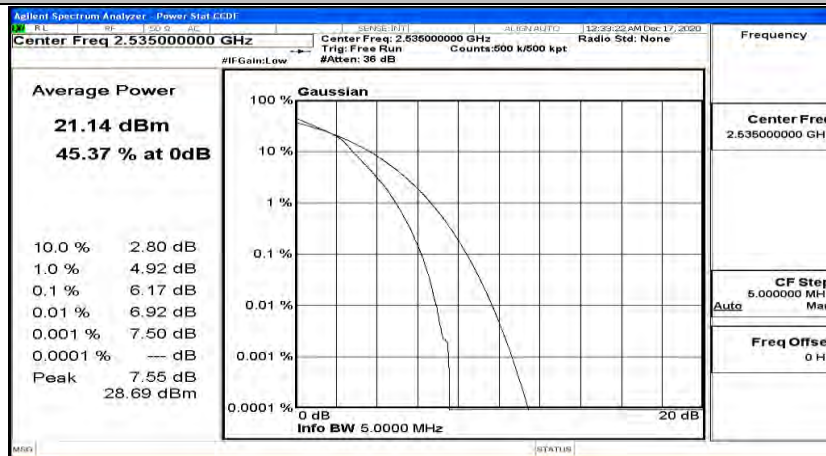
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



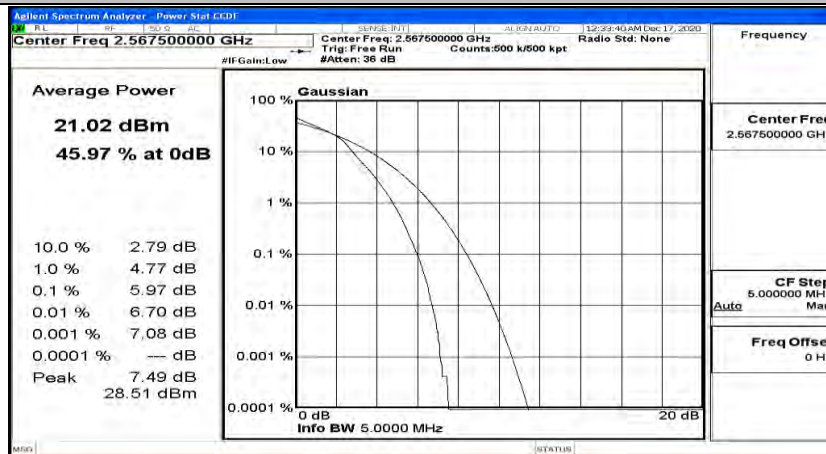
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



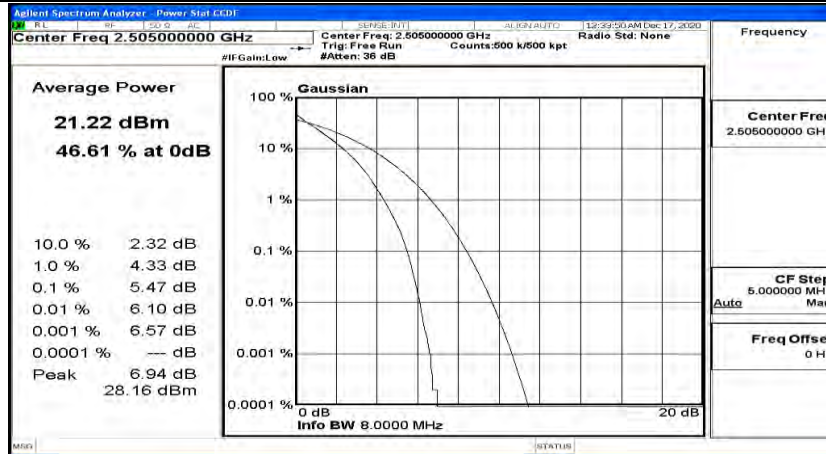
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



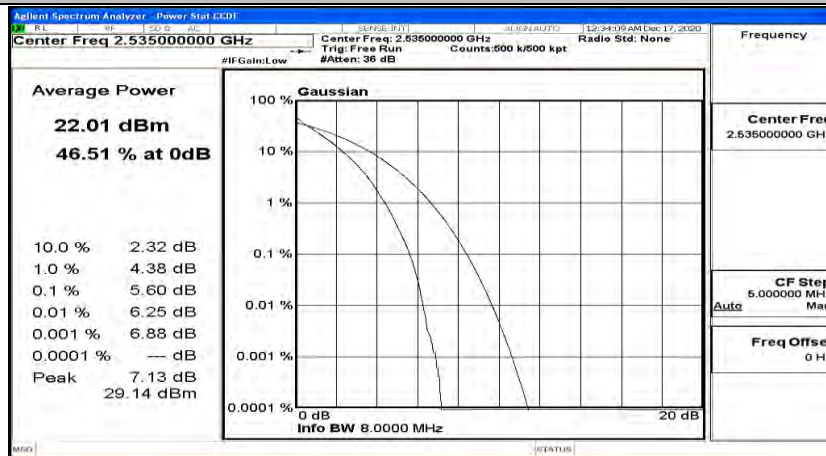
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



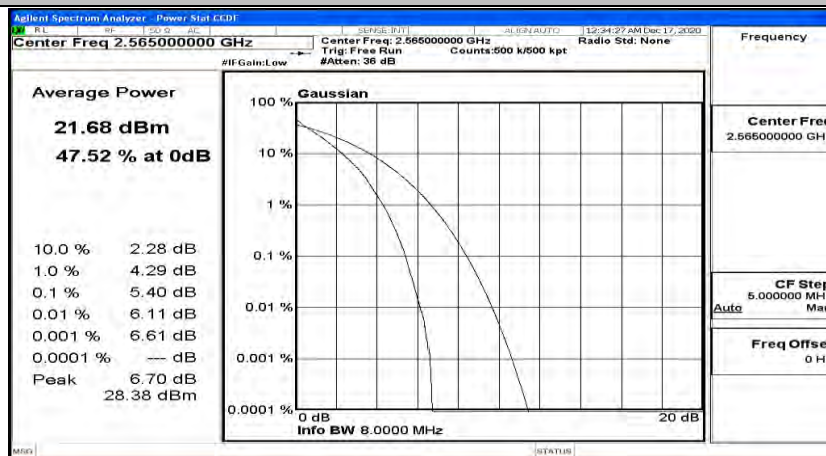
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _LCH_QPSK



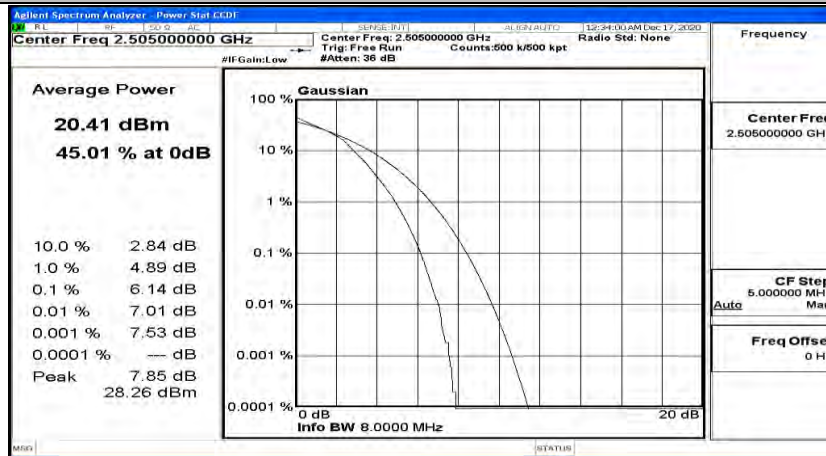
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _MCH_QPSK



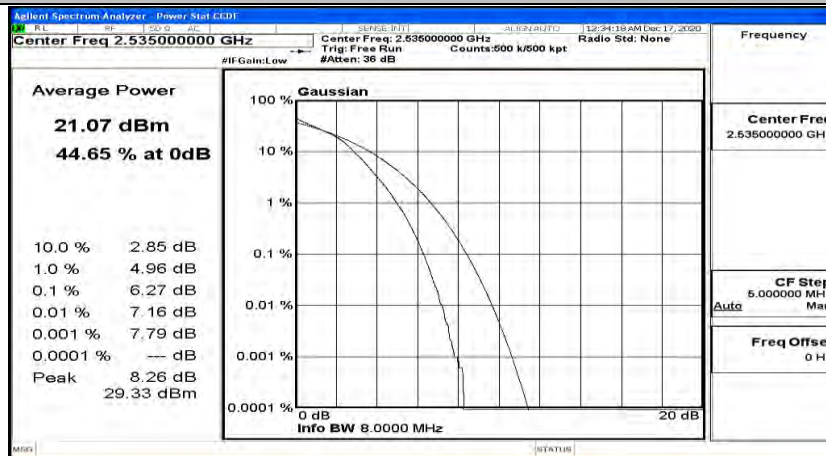
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) _HCH_QPSK



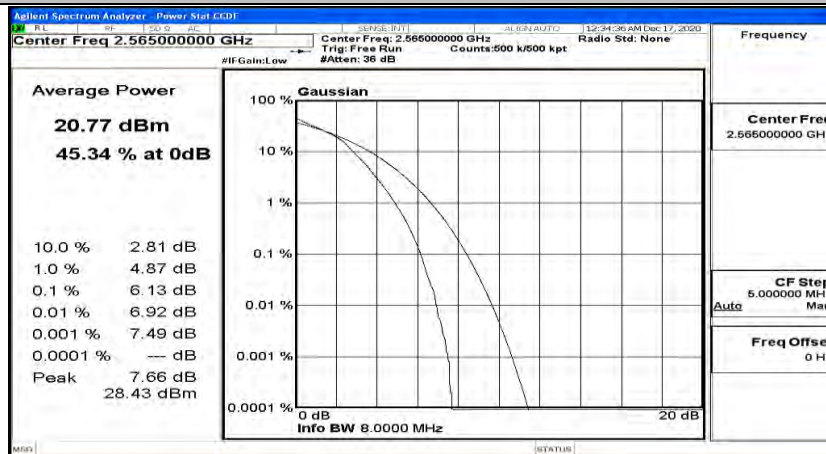
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



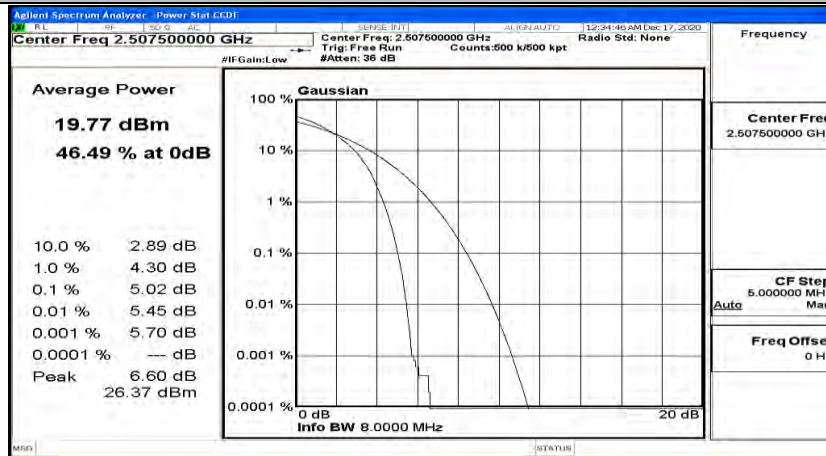
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



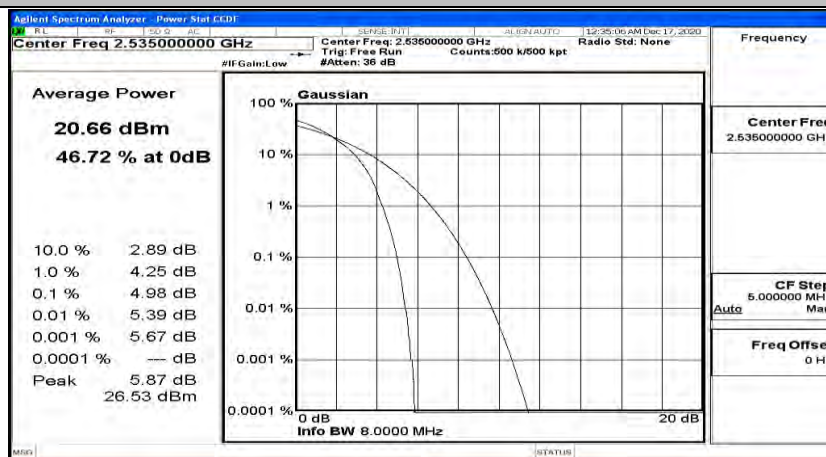
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



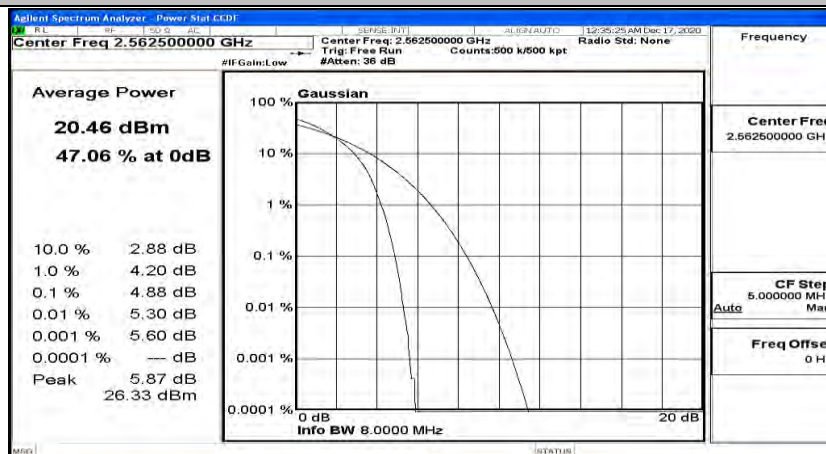
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



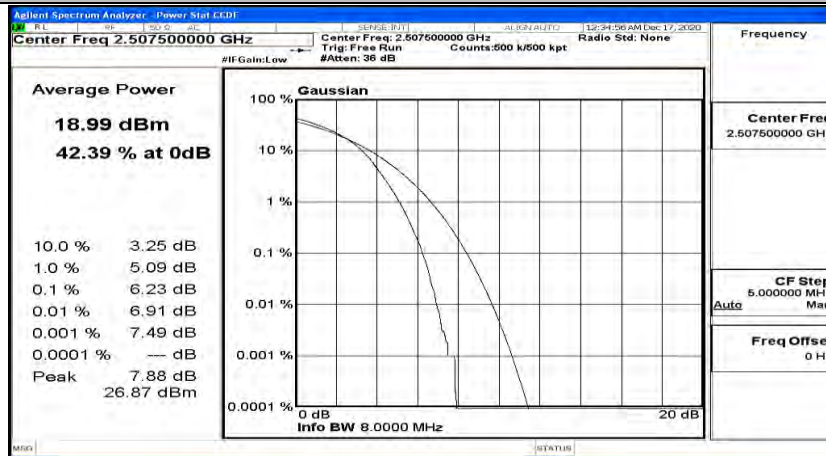
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



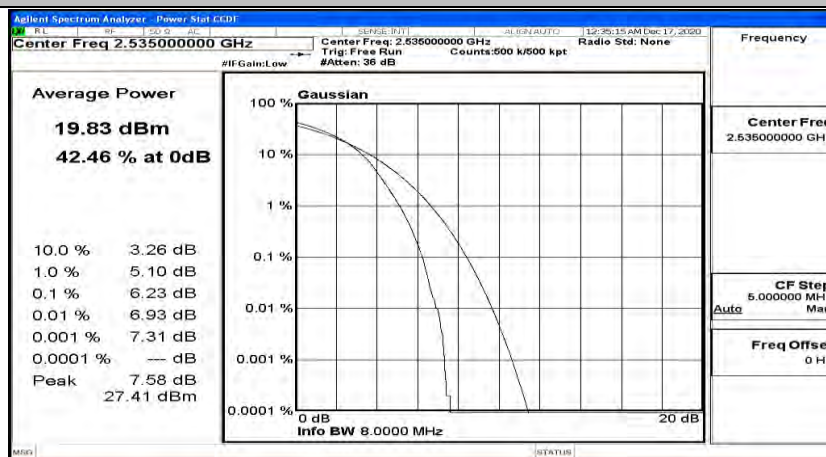
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



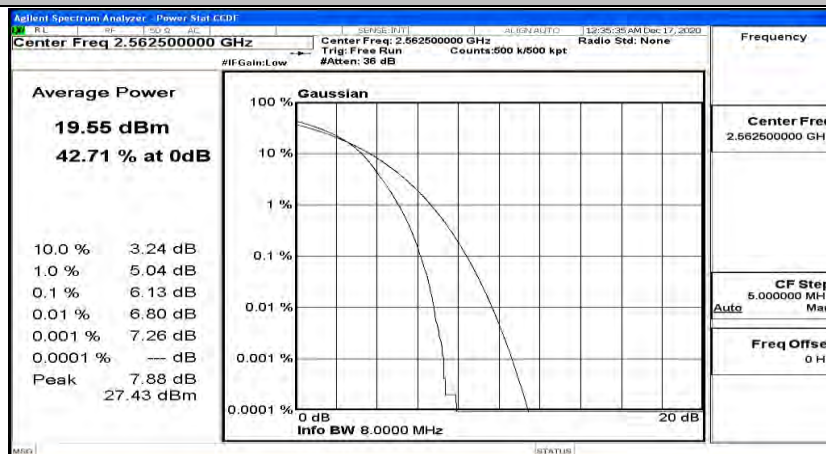
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



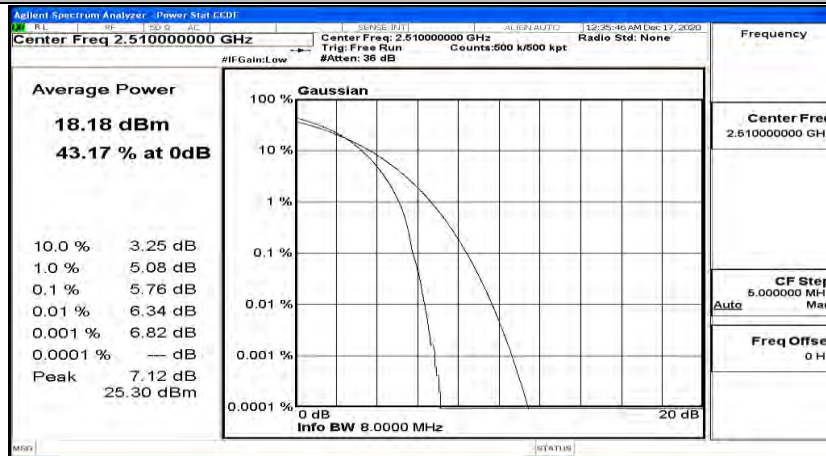
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



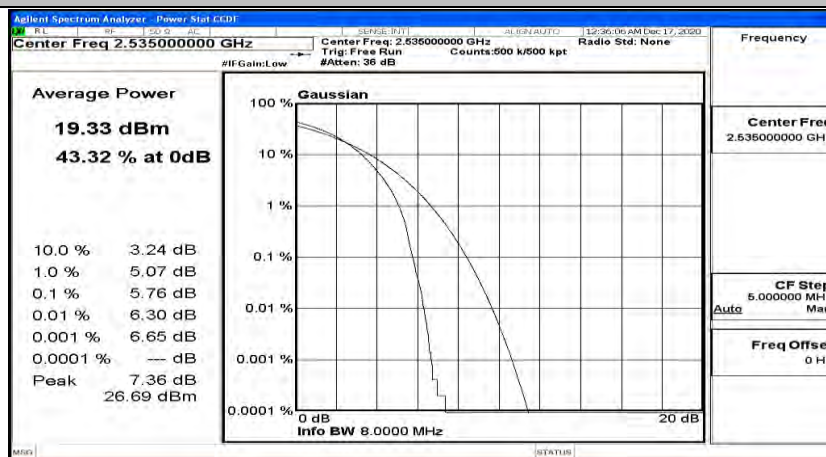
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



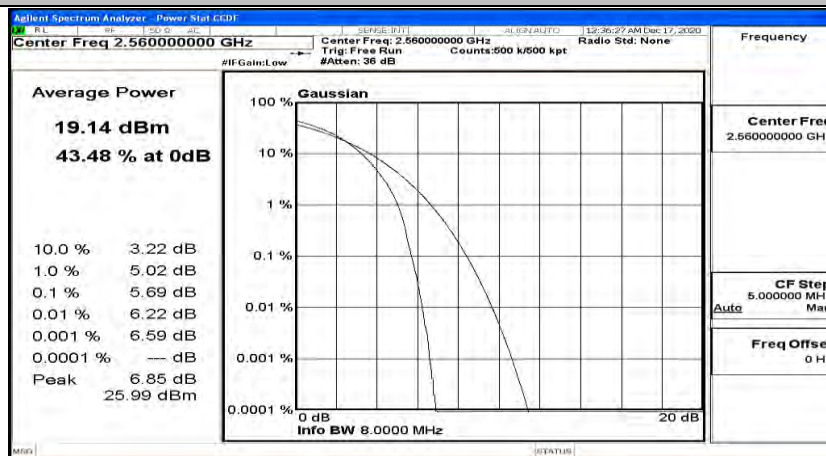
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



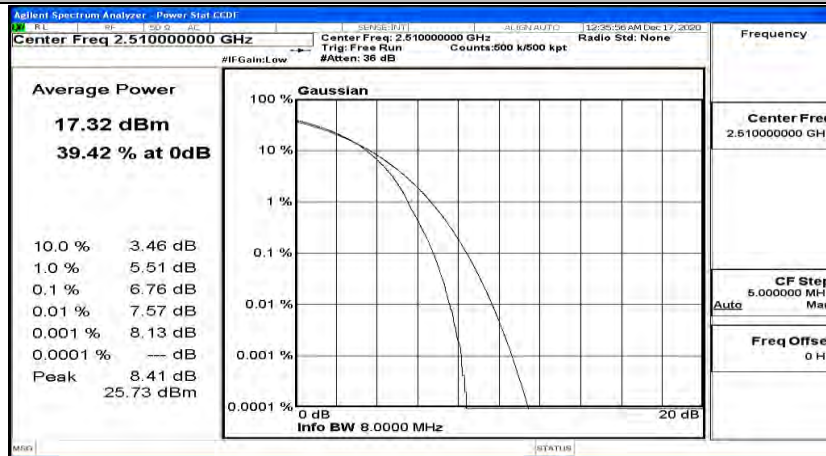
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



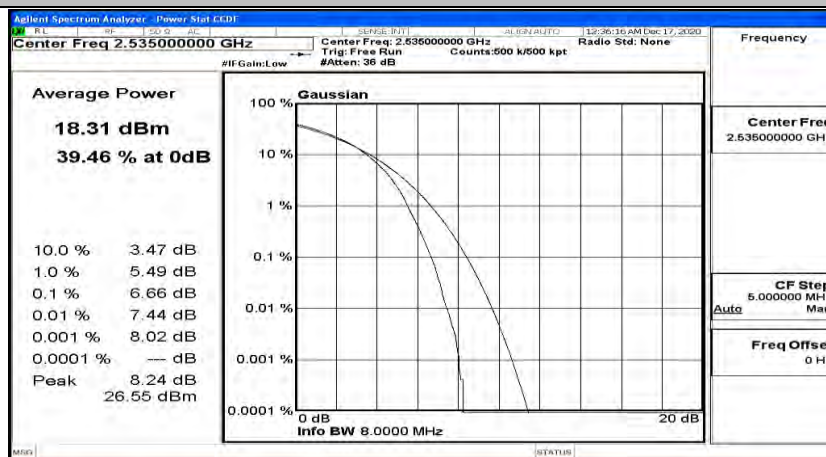
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



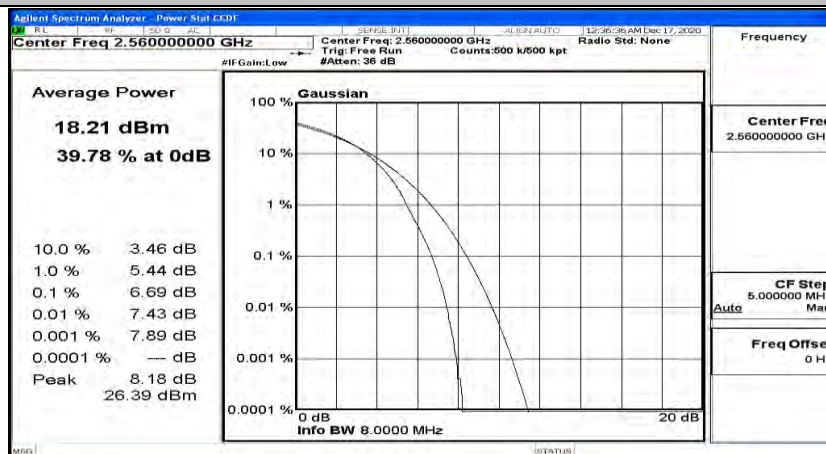
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



E.3 26dB Bandwidth and Occupied Bandwidth

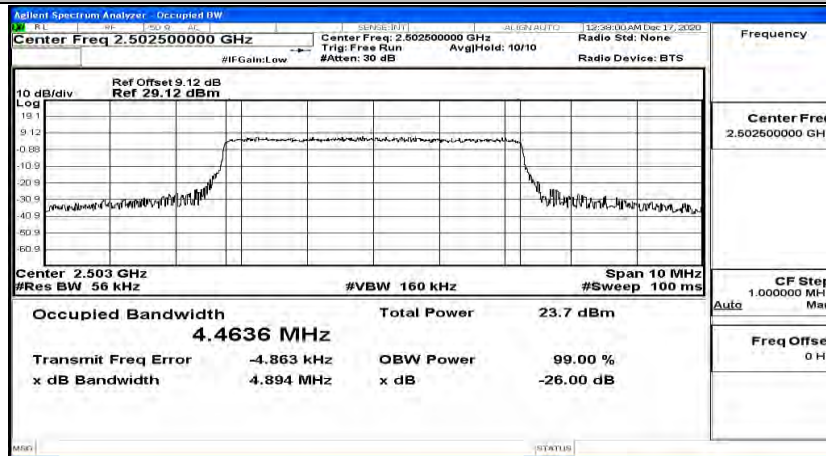
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4636	4.894	PASS
	MCH	4.4722	4.798	PASS
	HCH	4.4735	4.845	PASS
16QAM	LCH	4.4674	4.789	PASS
	MCH	4.4671	4.831	PASS
	HCH	4.4786	4.780	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9446	9.609	PASS
	MCH	8.9484	9.581	PASS
	HCH	8.9415	9.482	PASS
16QAM	LCH	8.9348	9.456	PASS
	MCH	8.9432	9.520	PASS
	HCH	8.9222	9.608	PASS

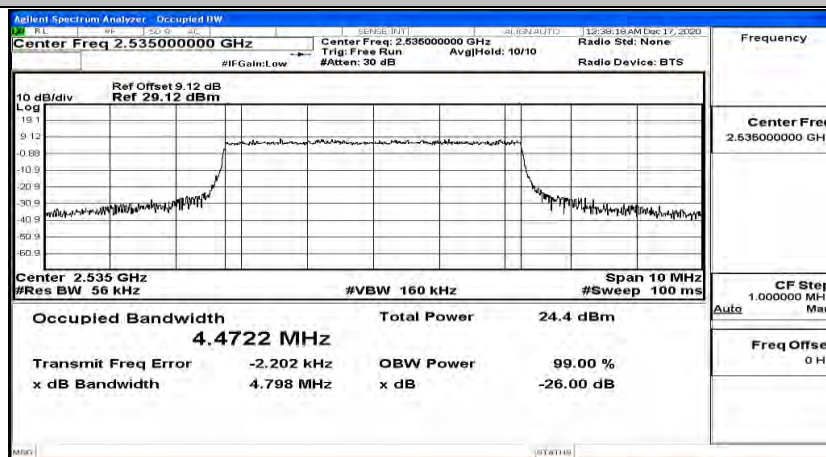
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.416	14.08	PASS
	MCH	13.406	14.13	PASS
	HCH	13.388	14.06	PASS
16QAM	LCH	13.414	14.10	PASS
	MCH	13.410	14.17	PASS
	HCH	13.390	14.11	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.913	18.66	PASS
	MCH	17.883	18.68	PASS
	HCH	17.867	18.73	PASS
16QAM	LCH	17.917	18.69	PASS
	MCH	17.894	18.78	PASS
	HCH	17.863	18.71	PASS

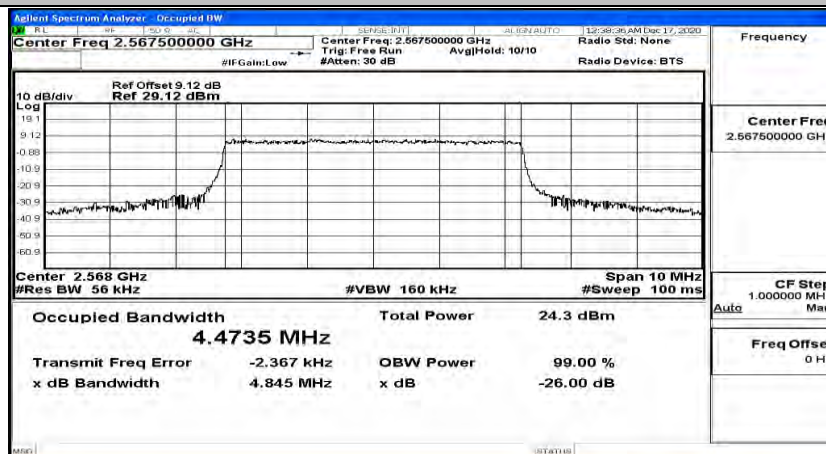
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



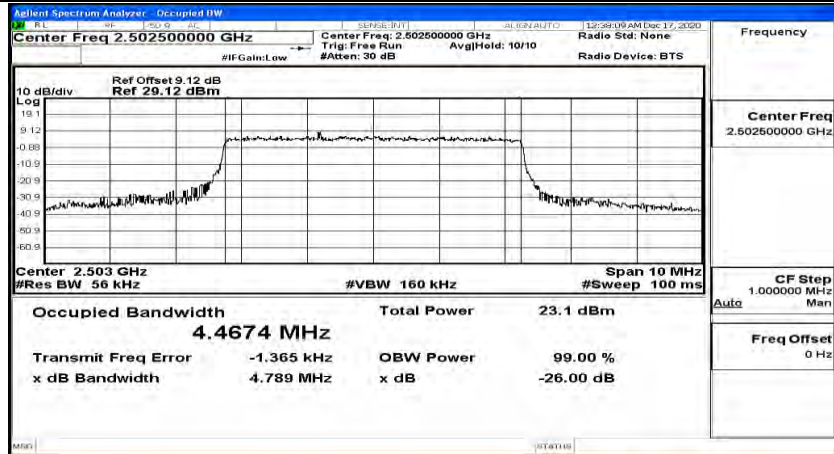
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



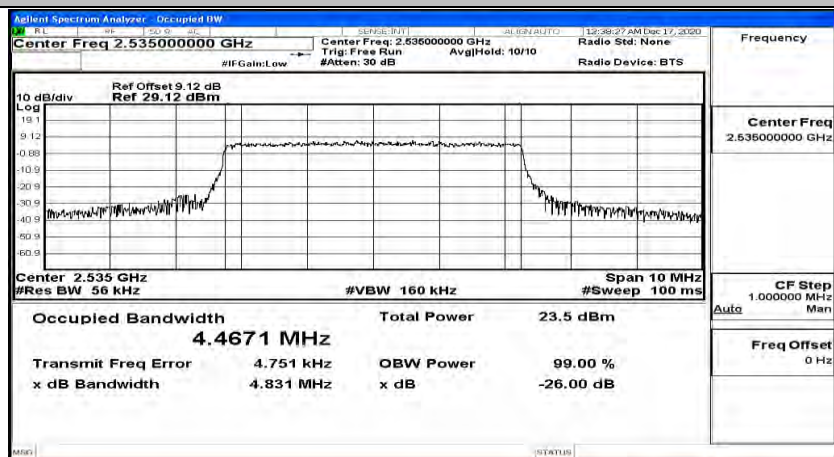
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



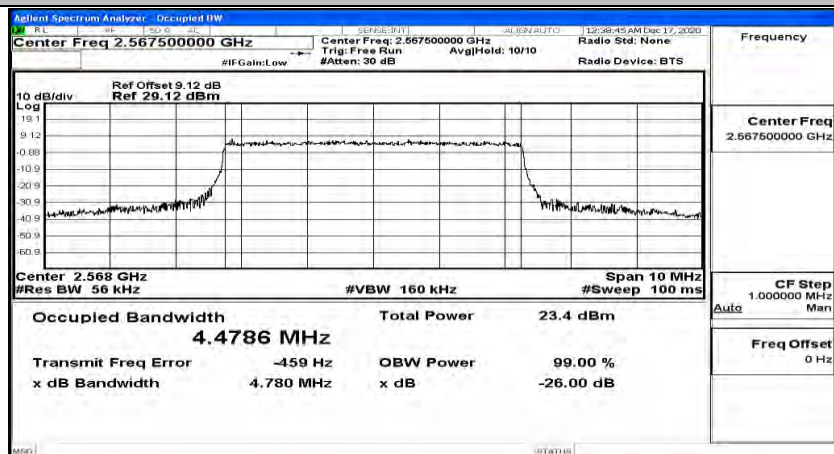
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



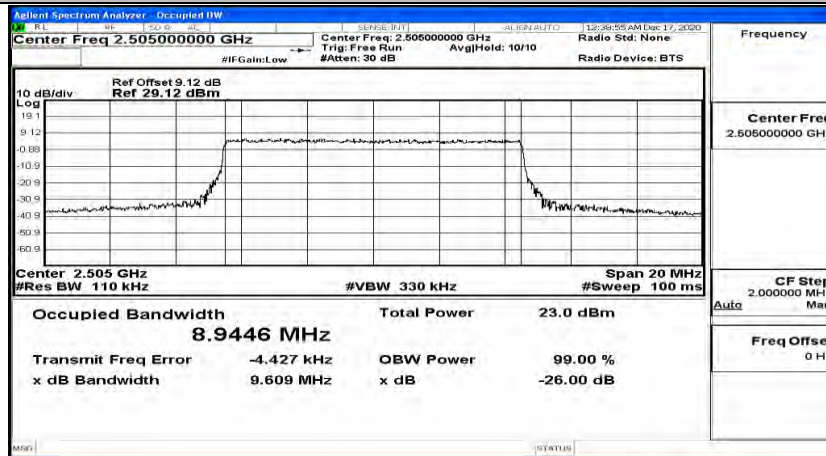
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



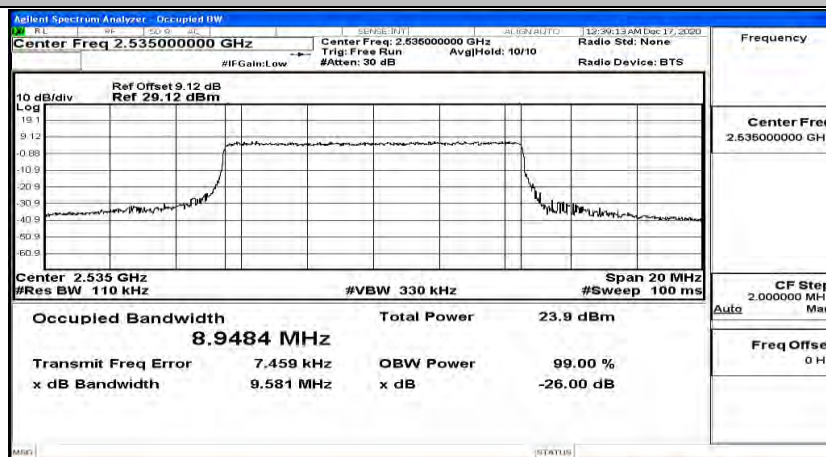
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



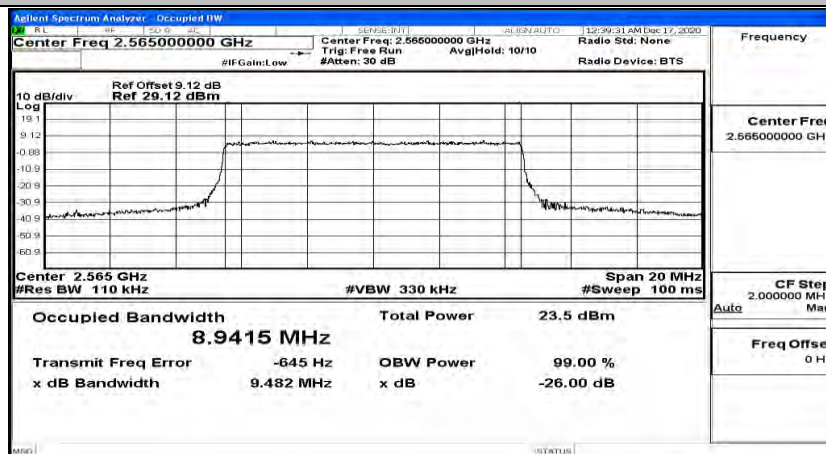
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



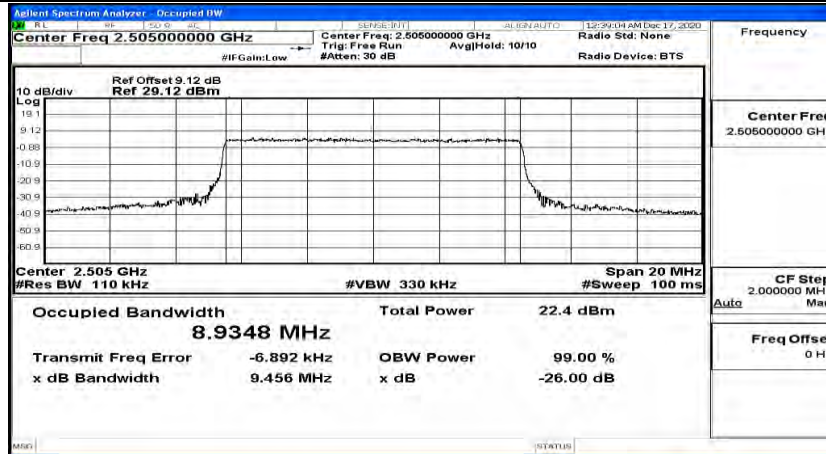
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



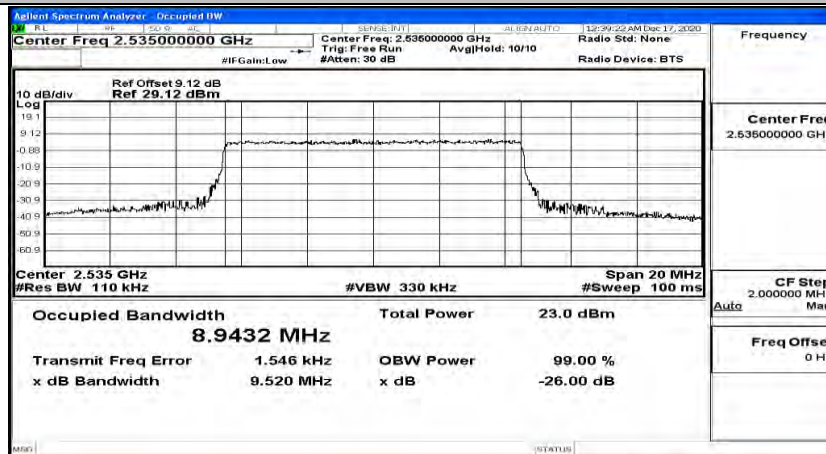
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



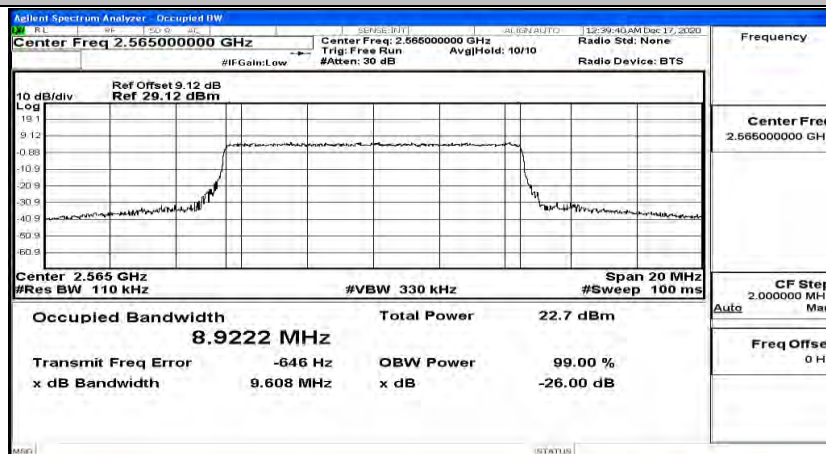
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



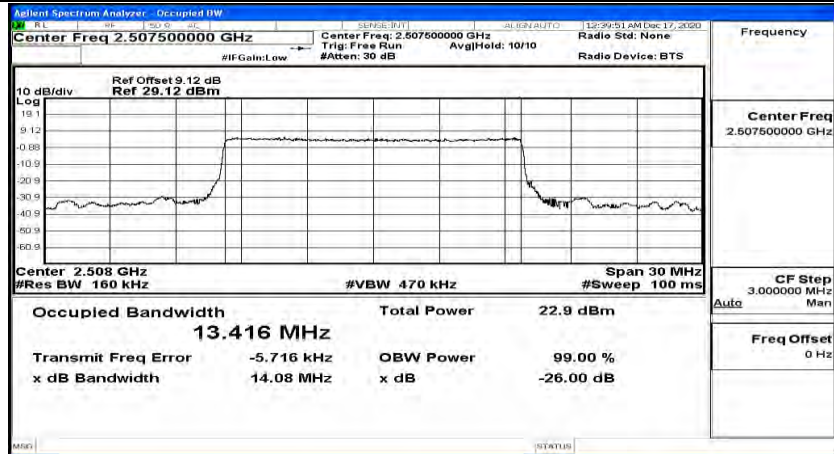
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



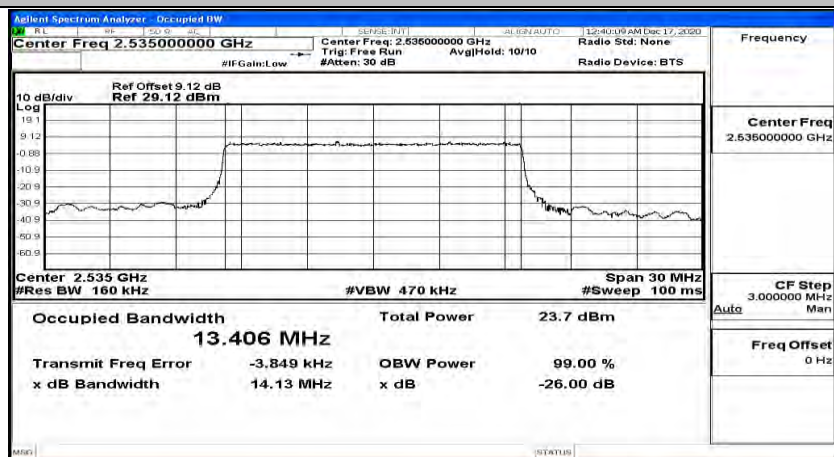
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



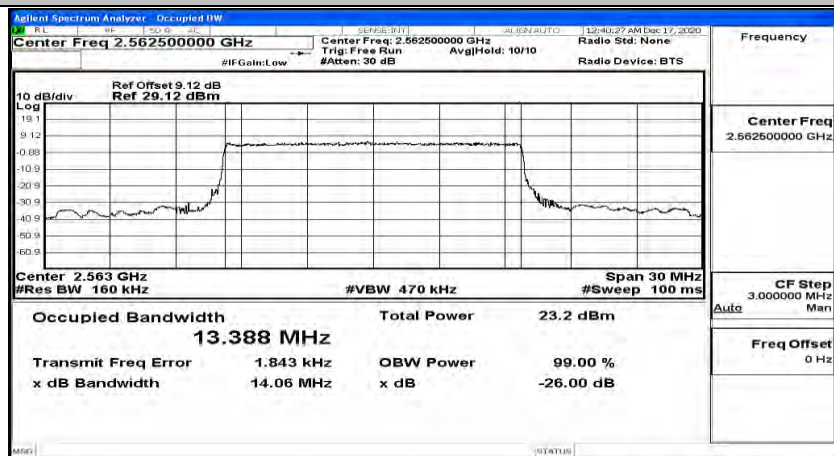
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



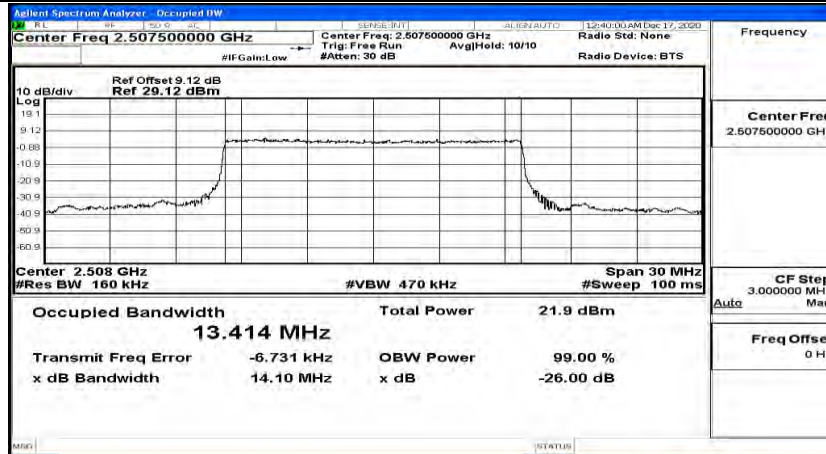
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



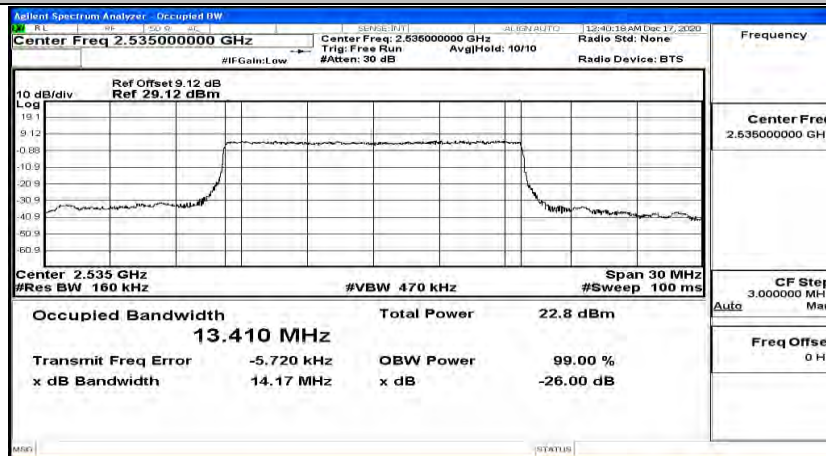
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



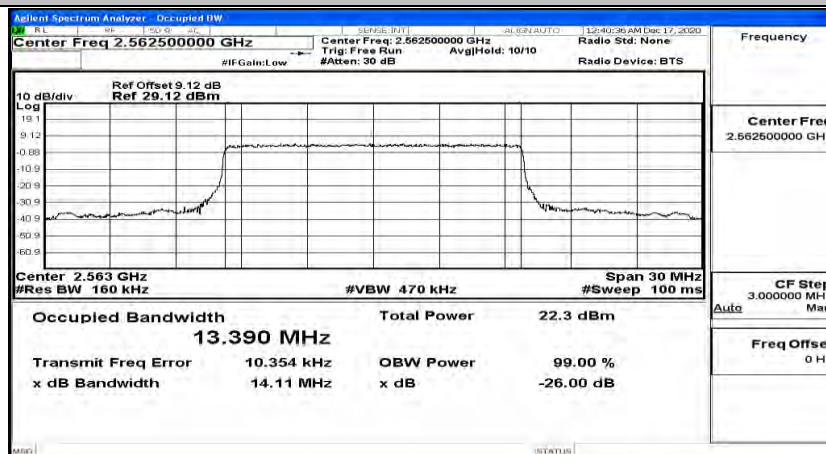
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



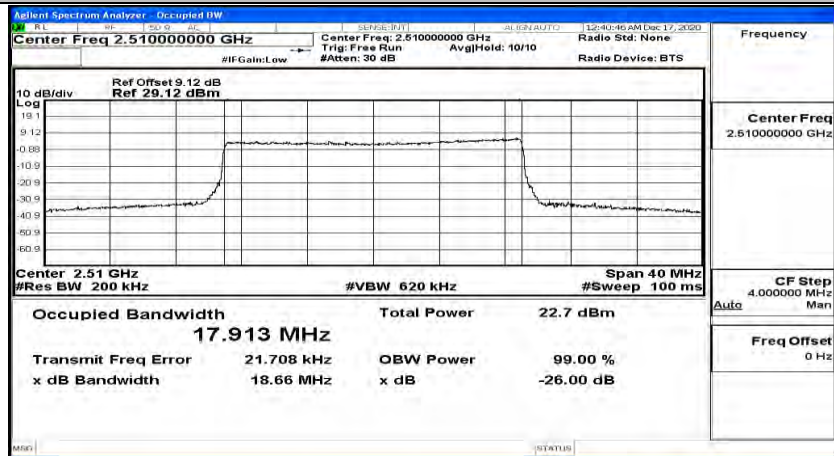
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



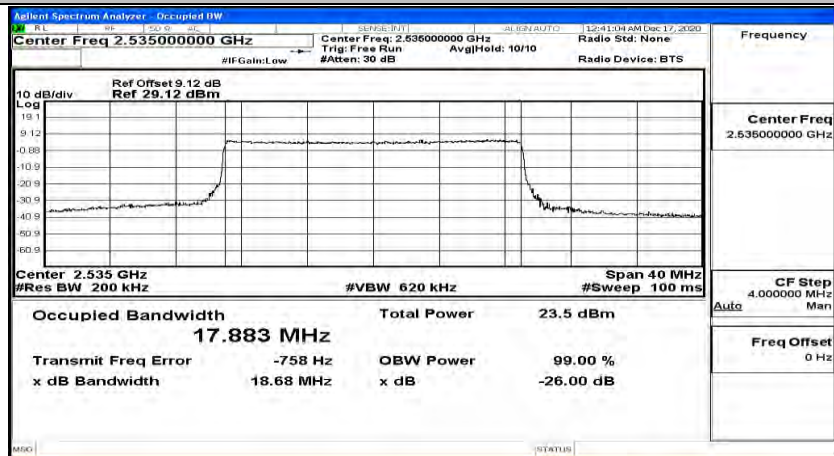
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



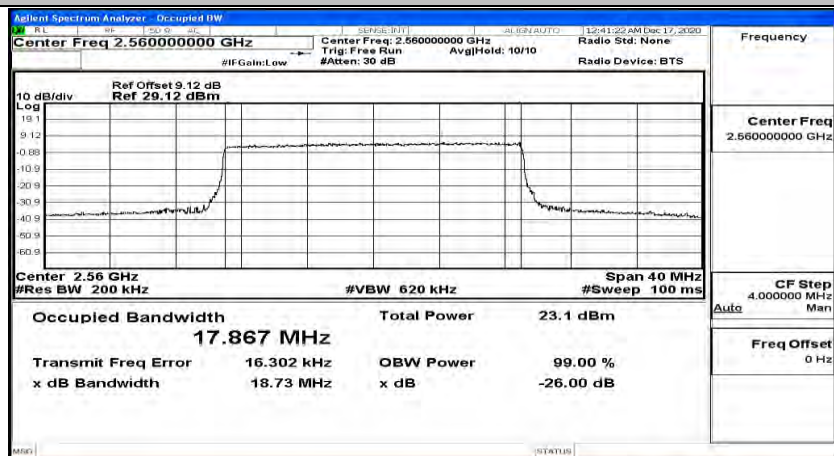
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



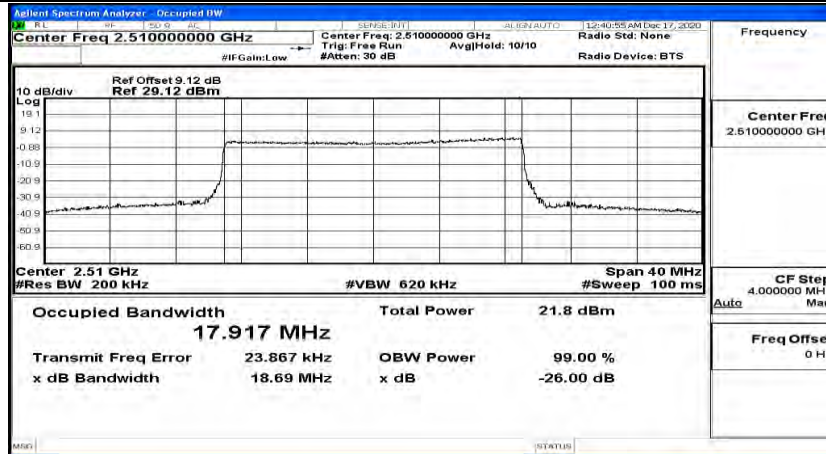
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



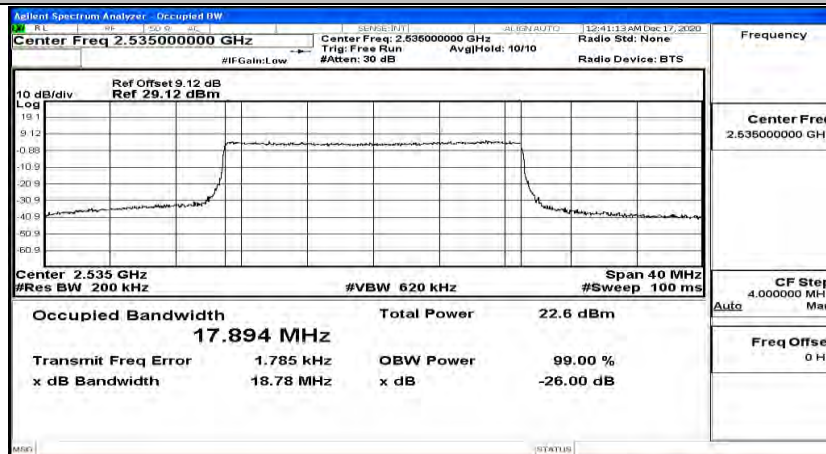
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



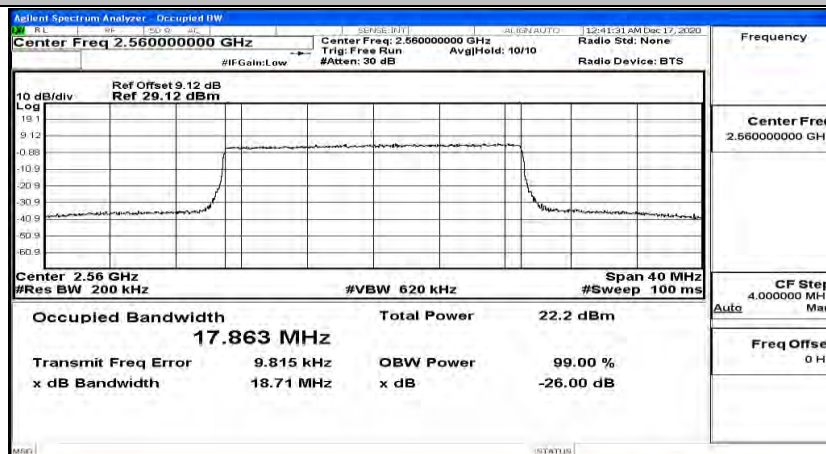
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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

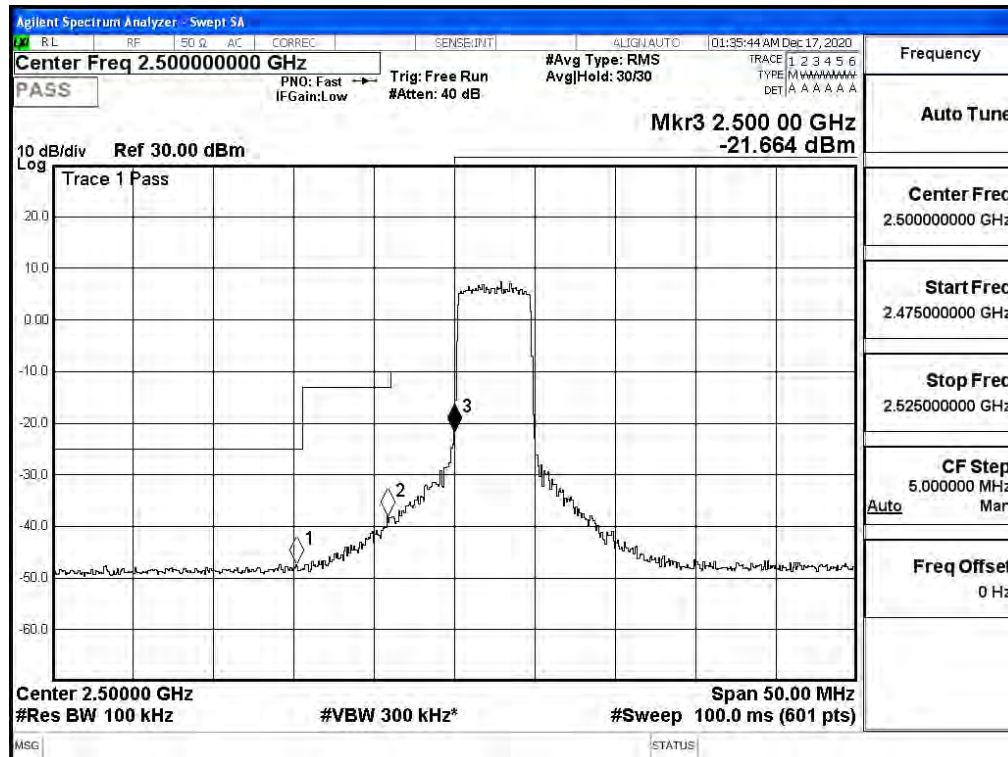


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

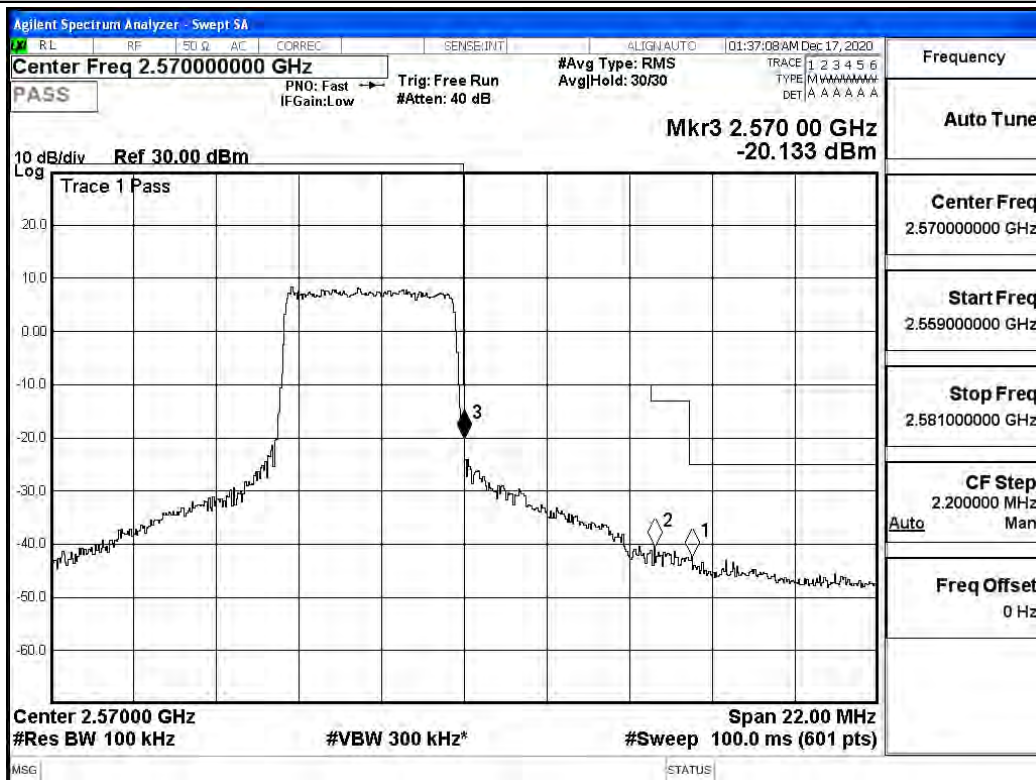


E.4 Band Edge

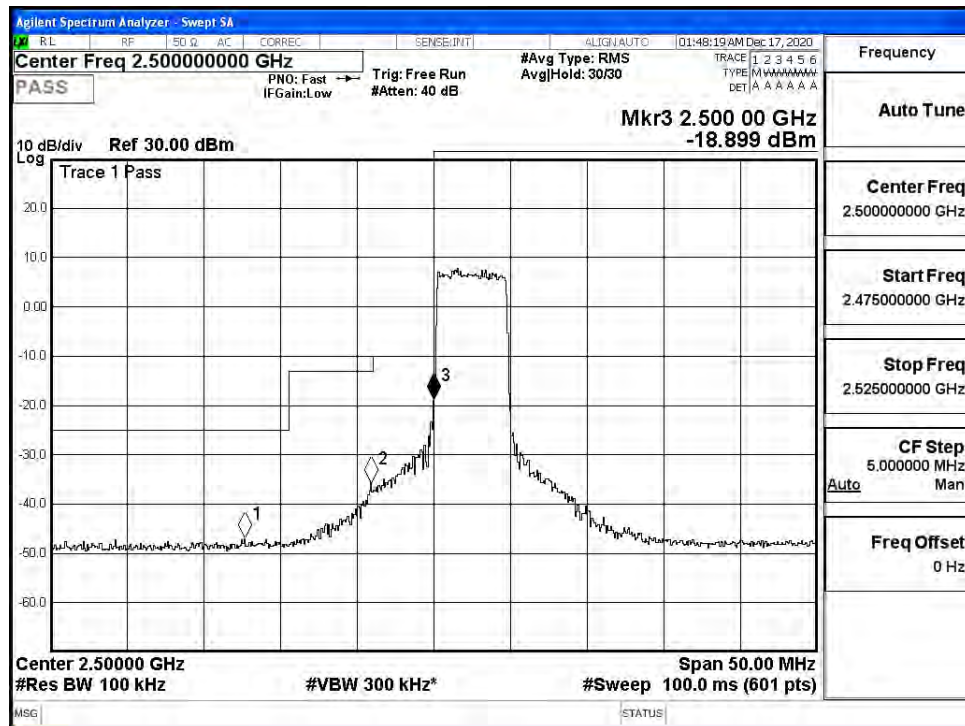
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



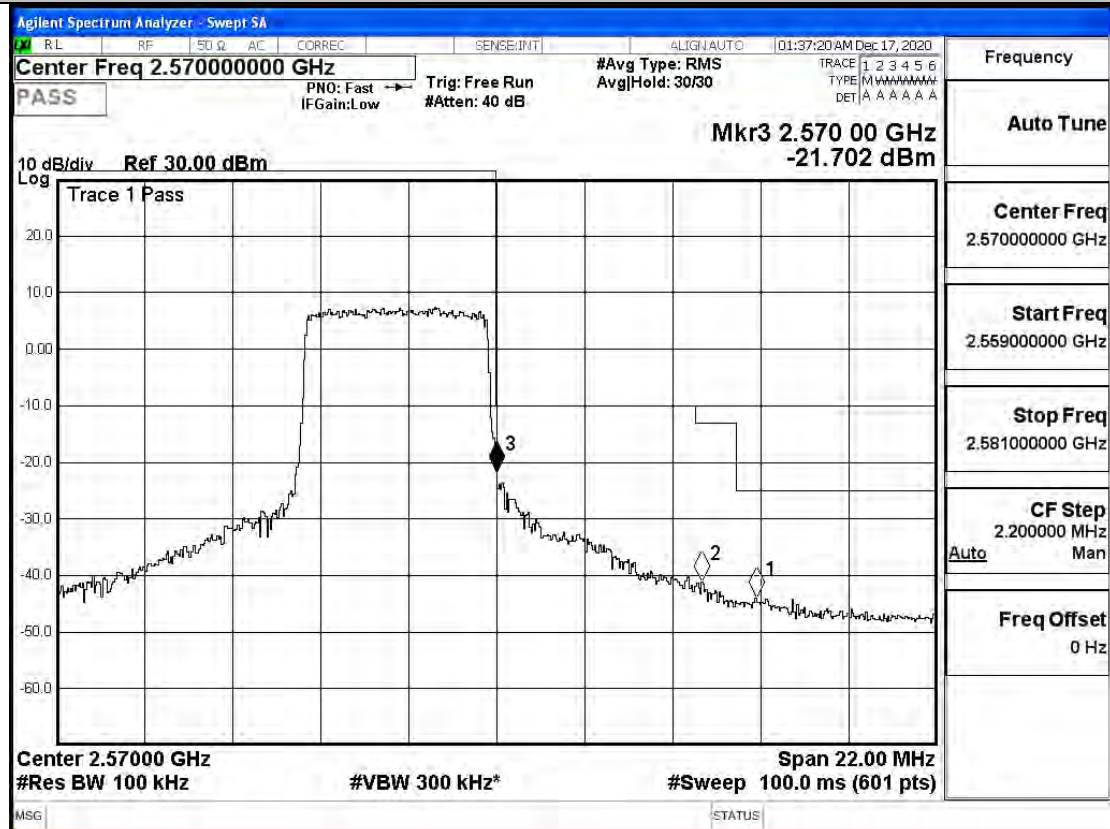
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



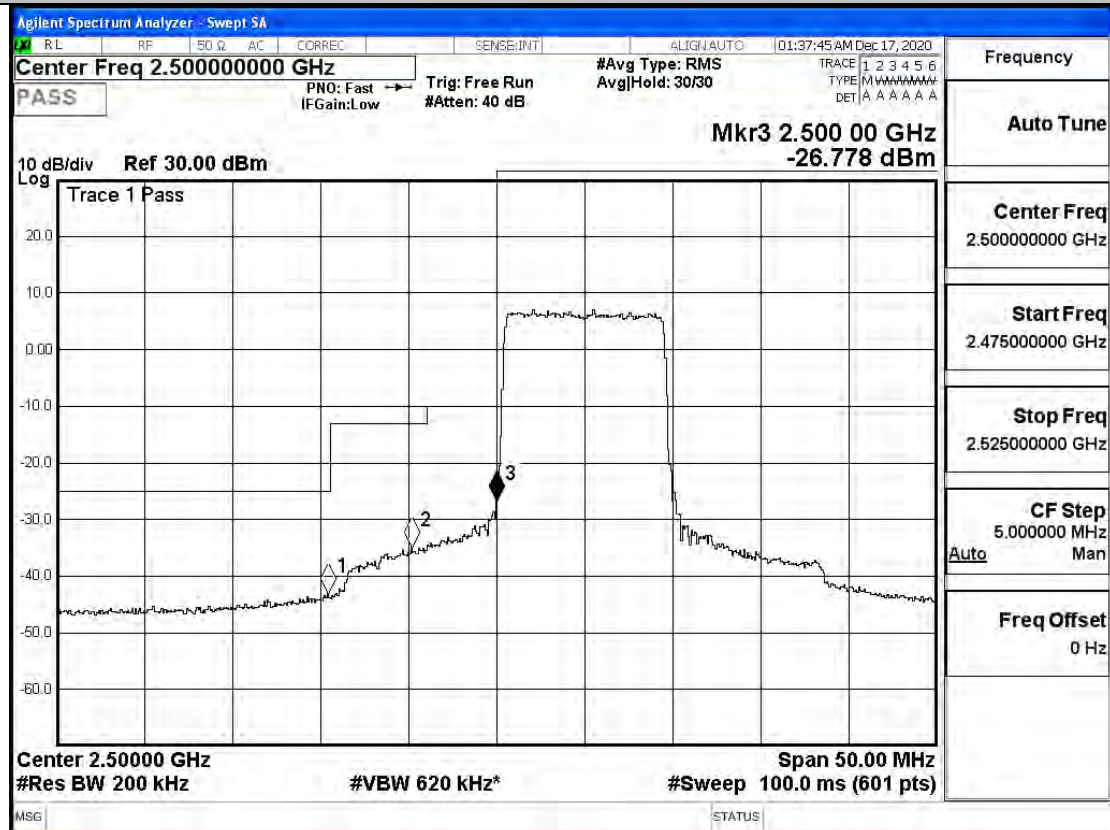
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



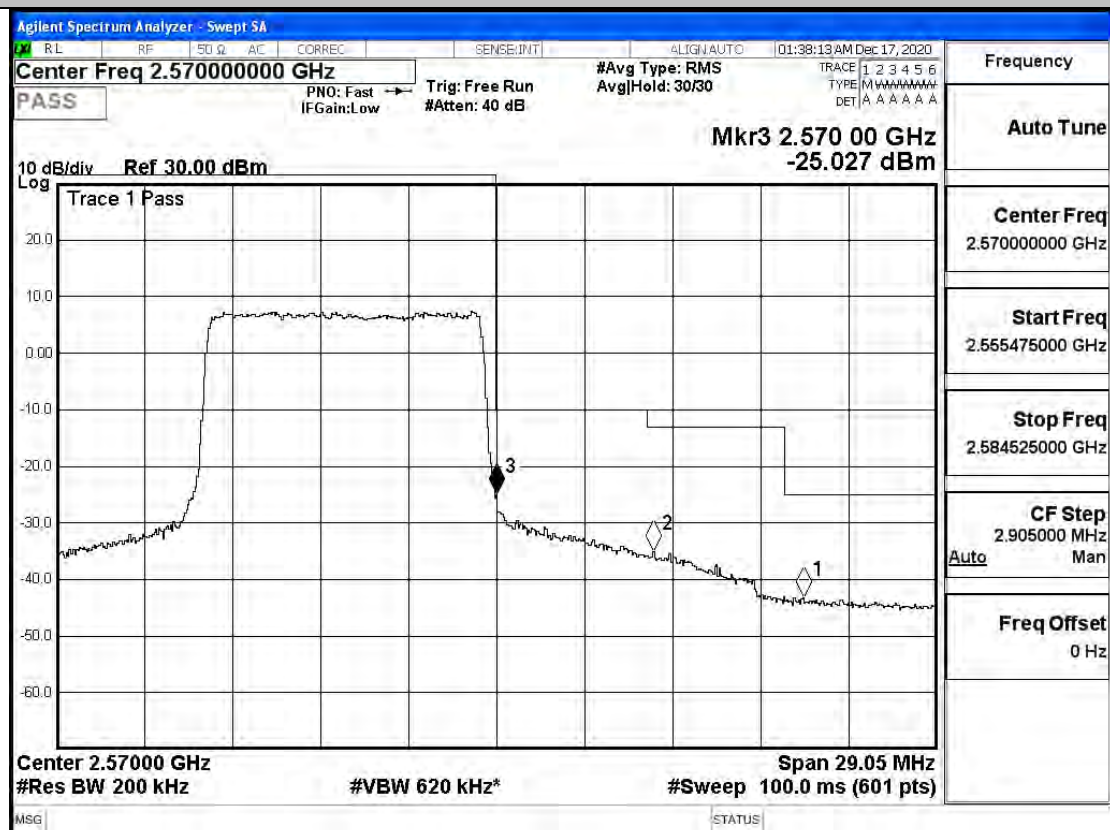
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



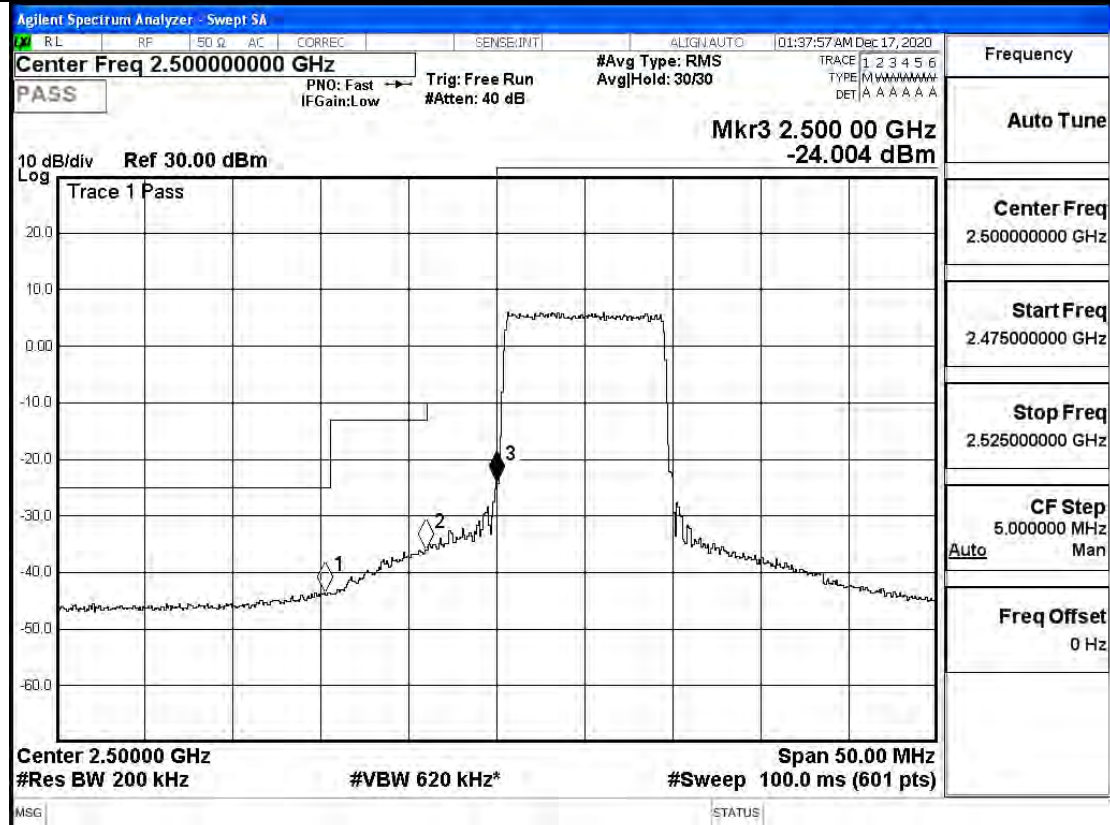
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



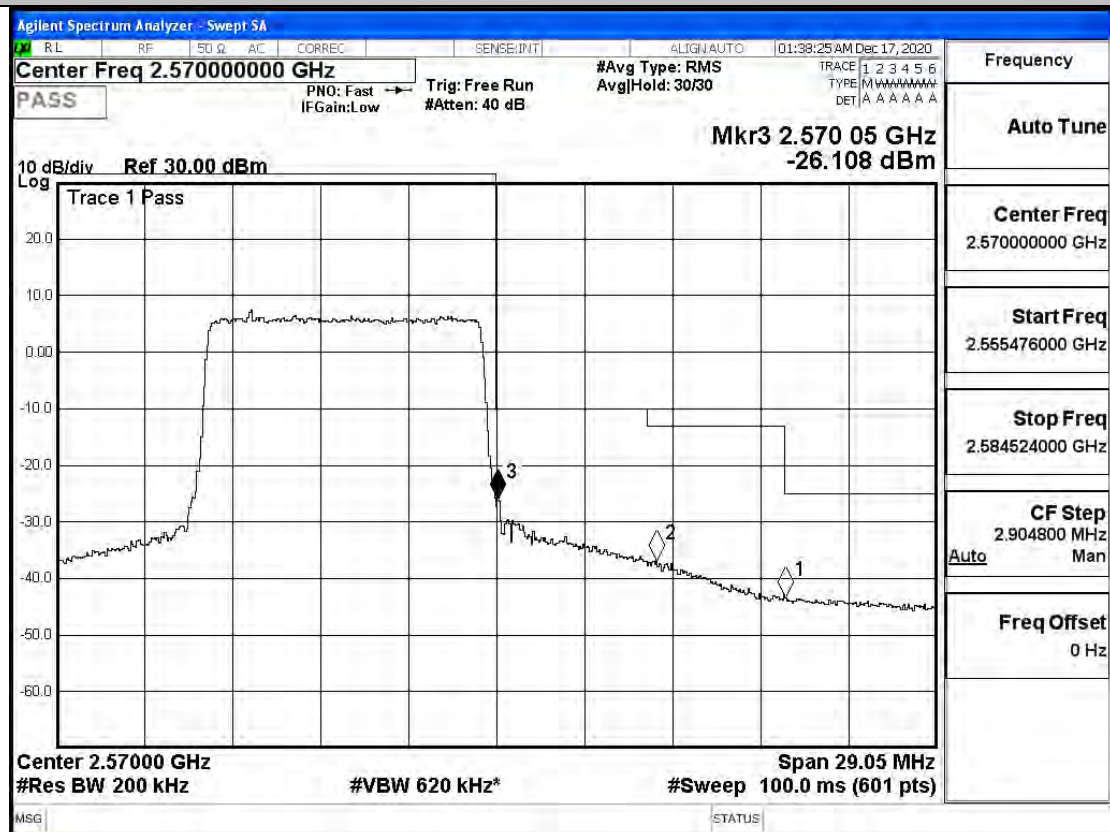
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



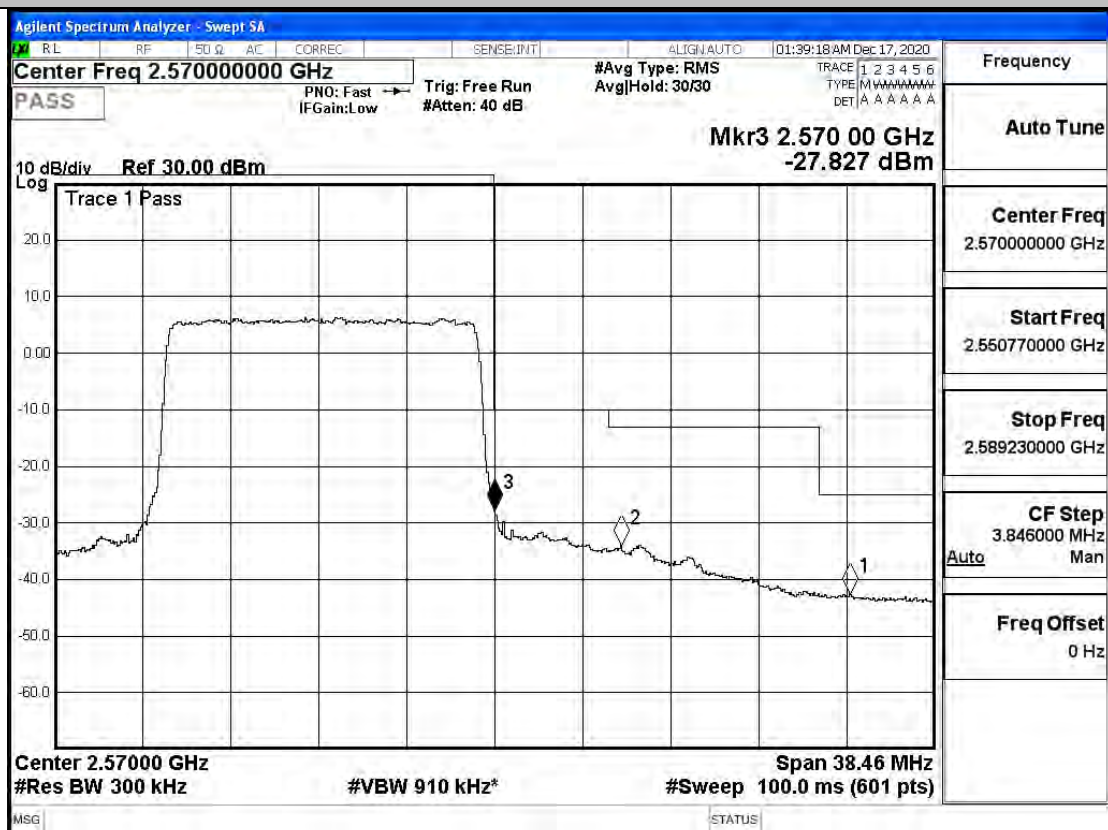
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



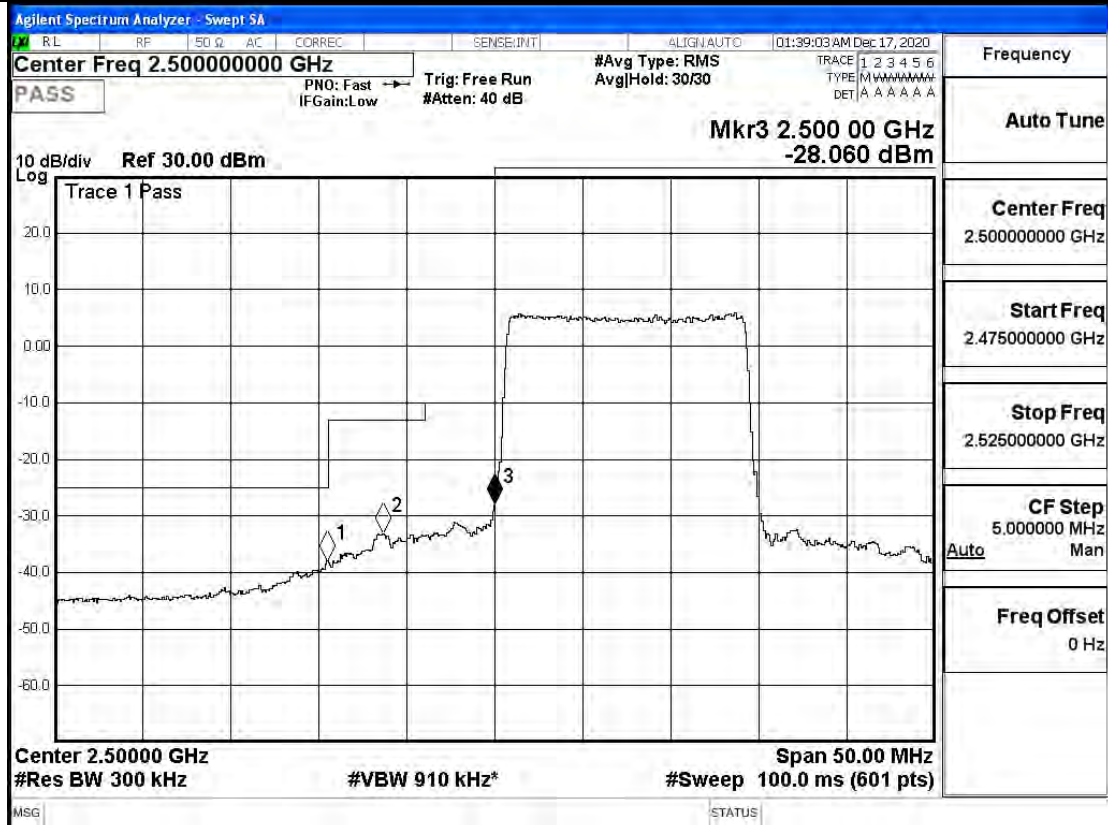
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



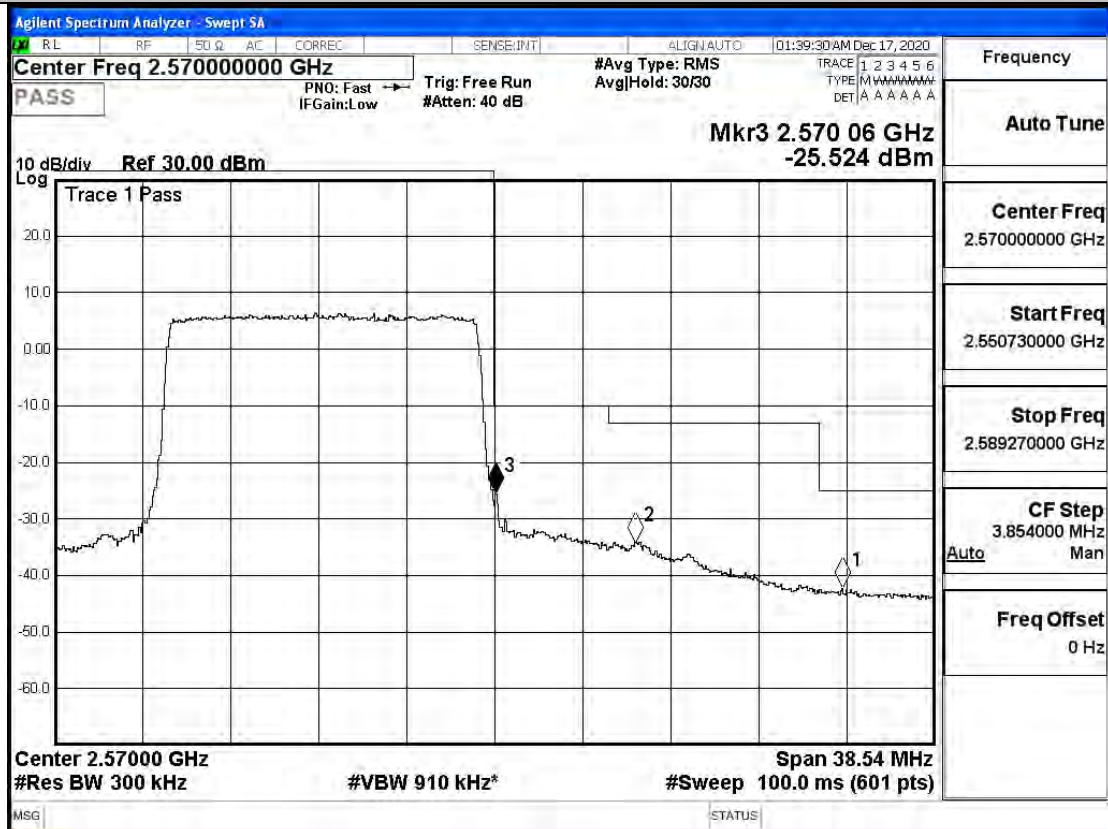
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



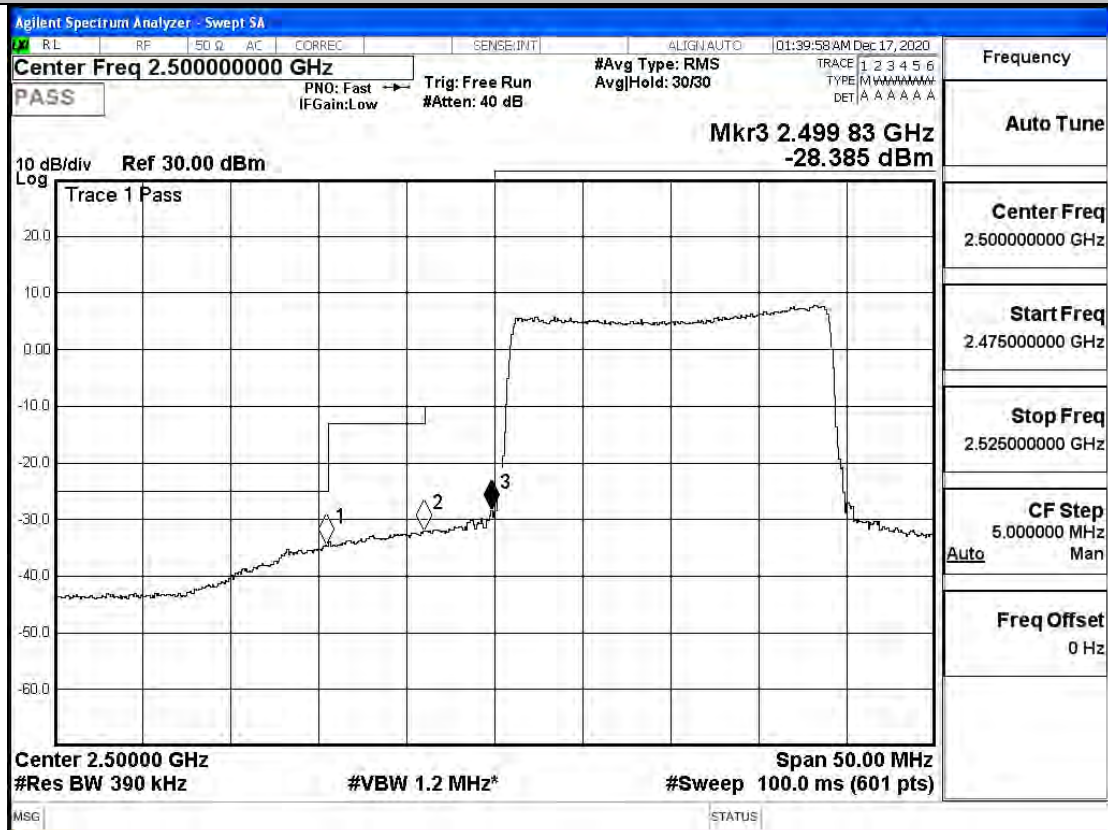
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



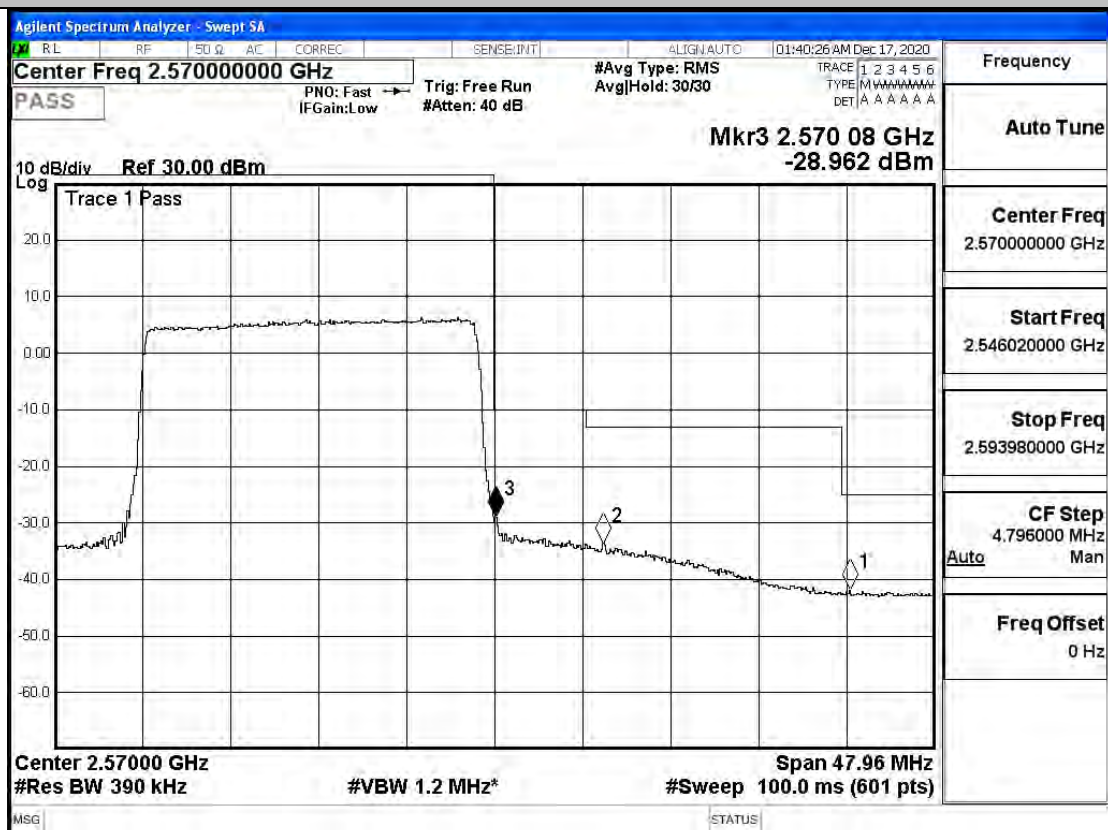
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



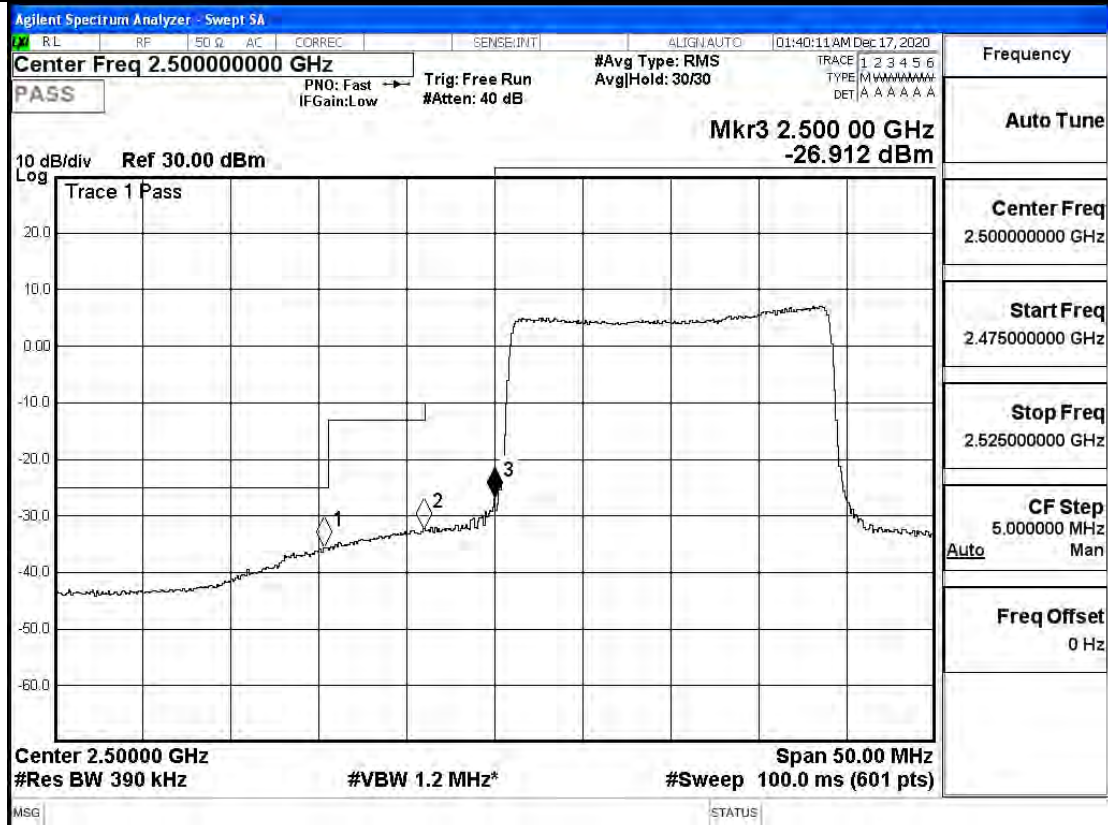
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



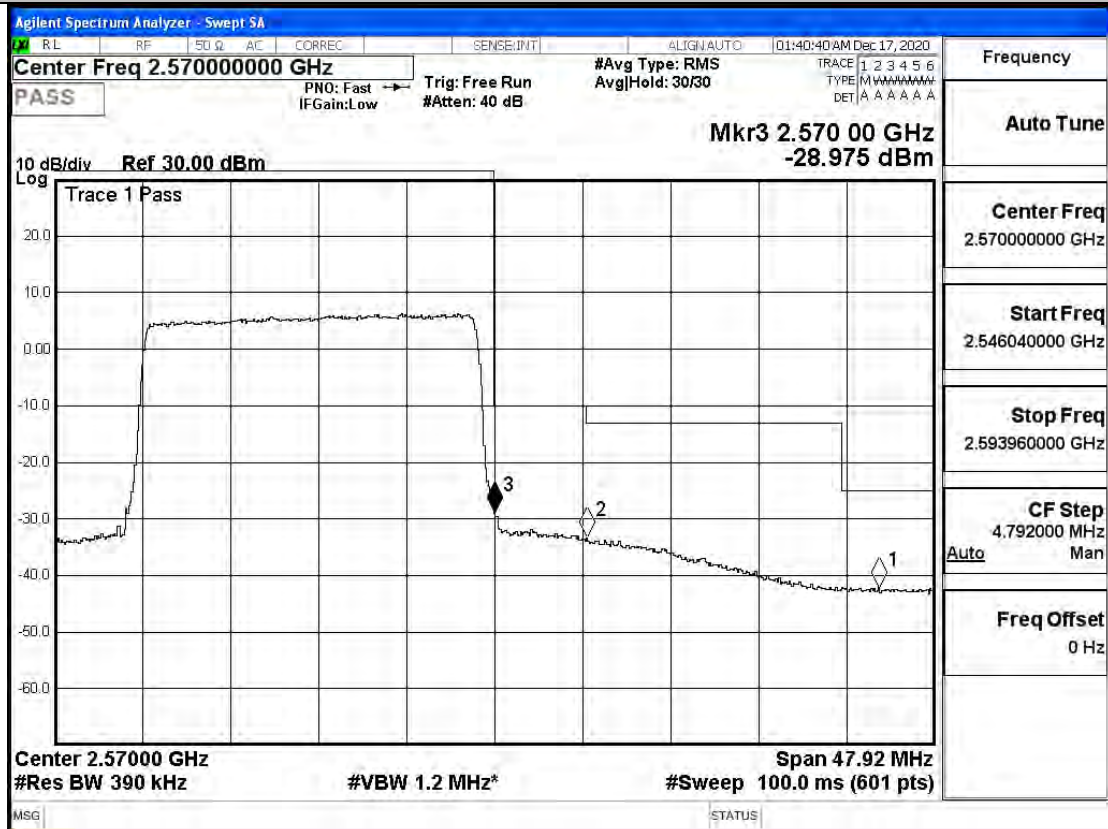
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



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

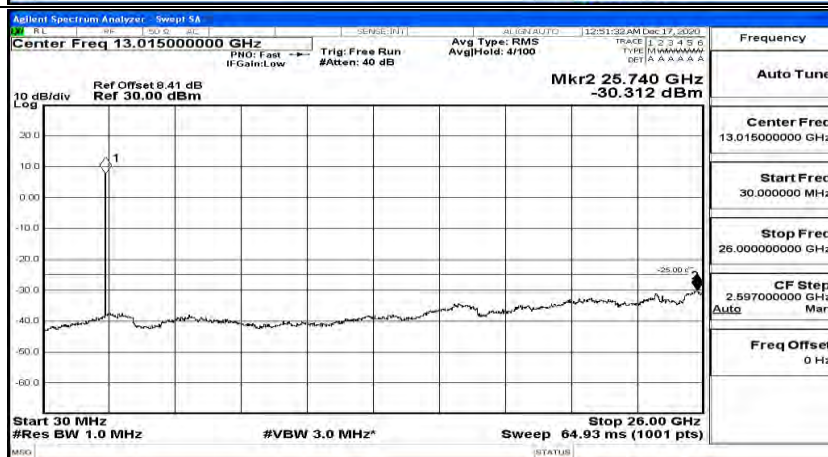
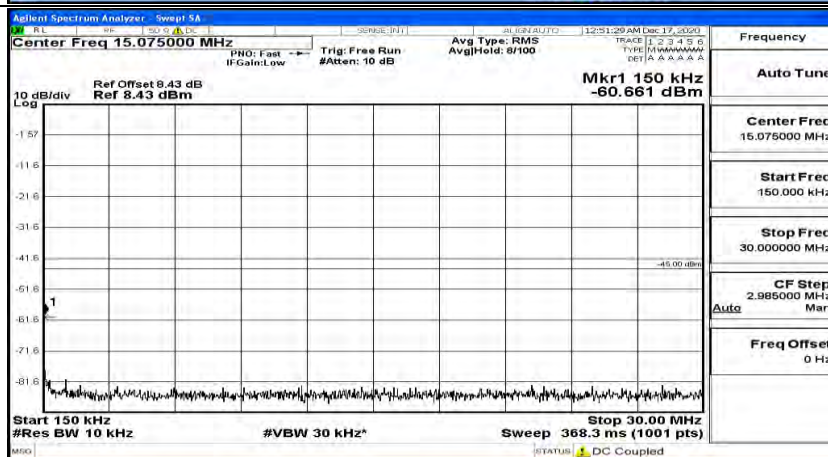
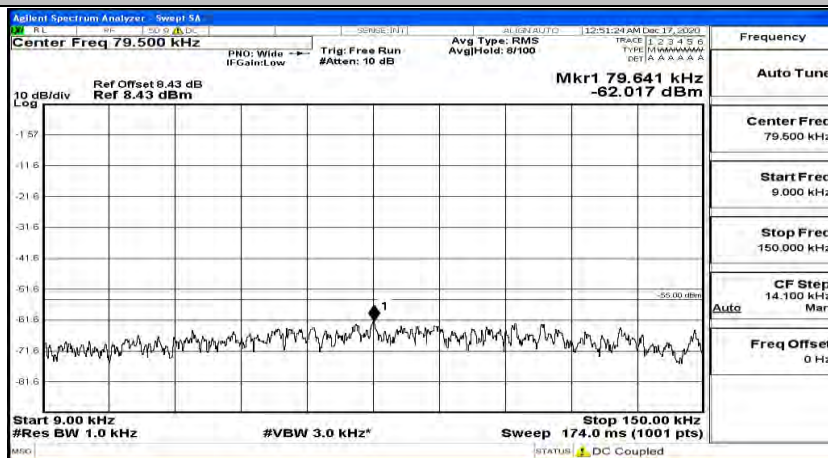


Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

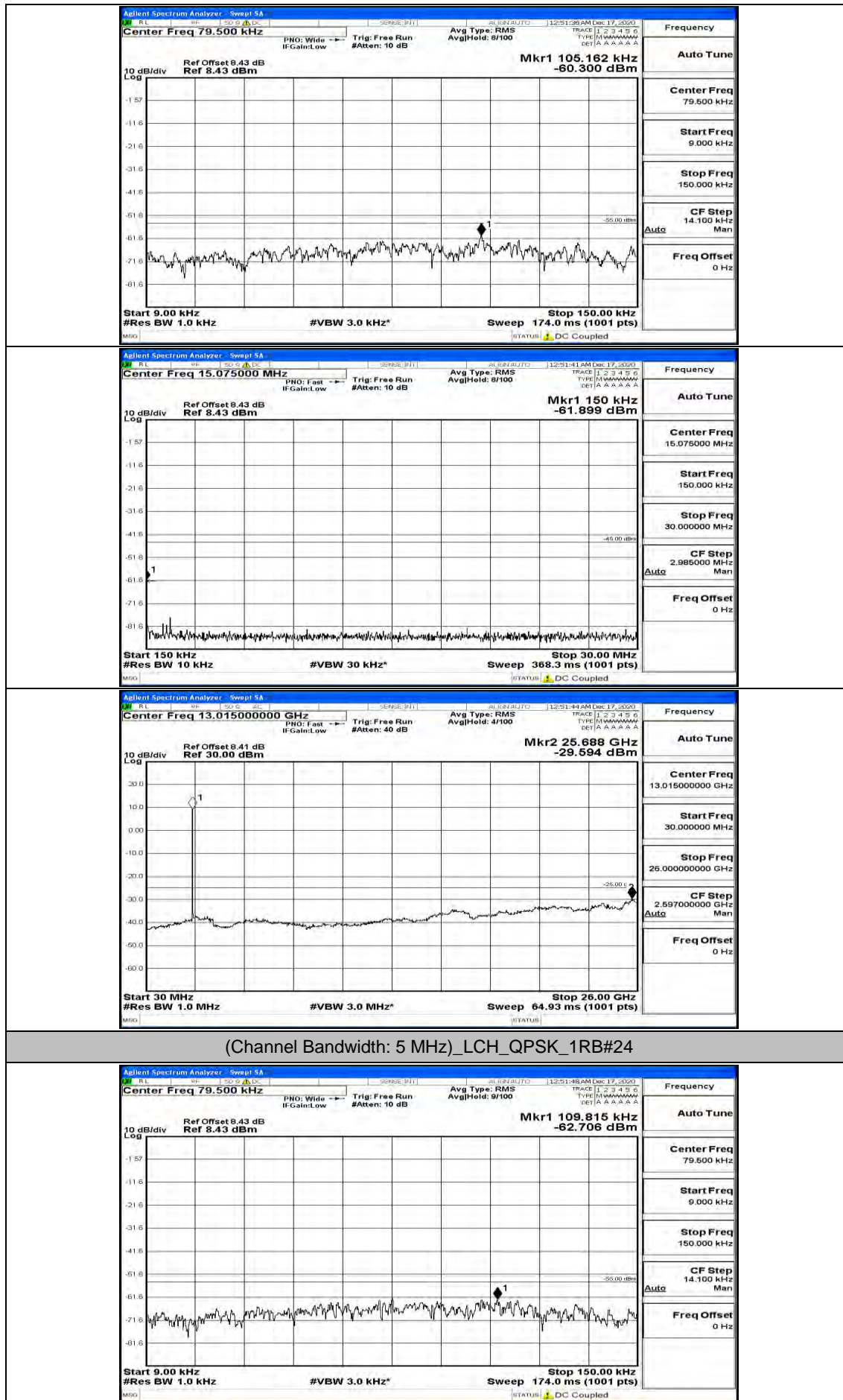


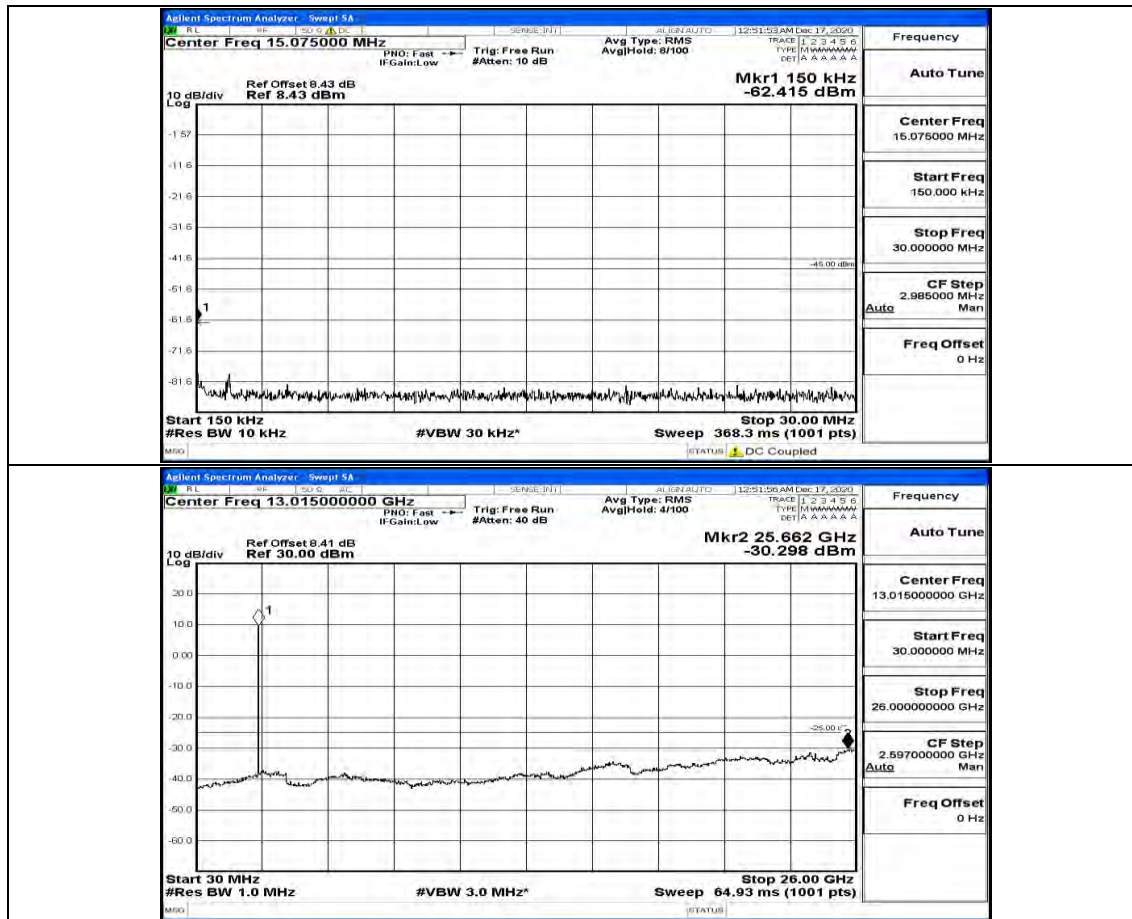
E.5 Conducted Spurious Emission**Channel Bandwidth: 5 MHz**

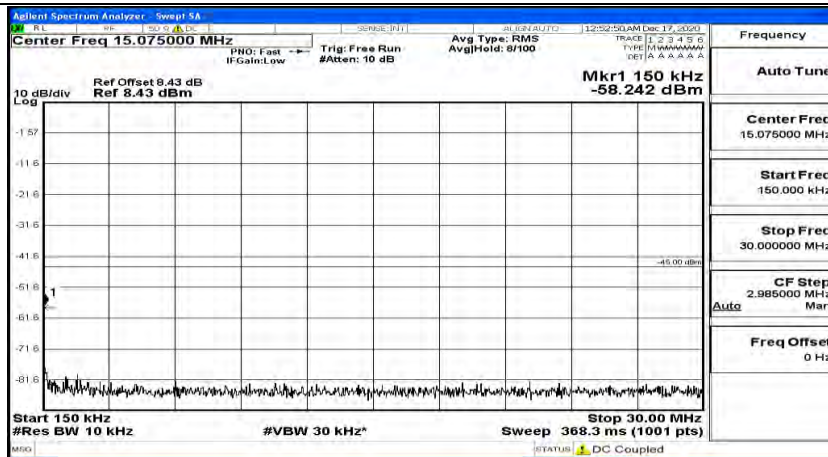
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



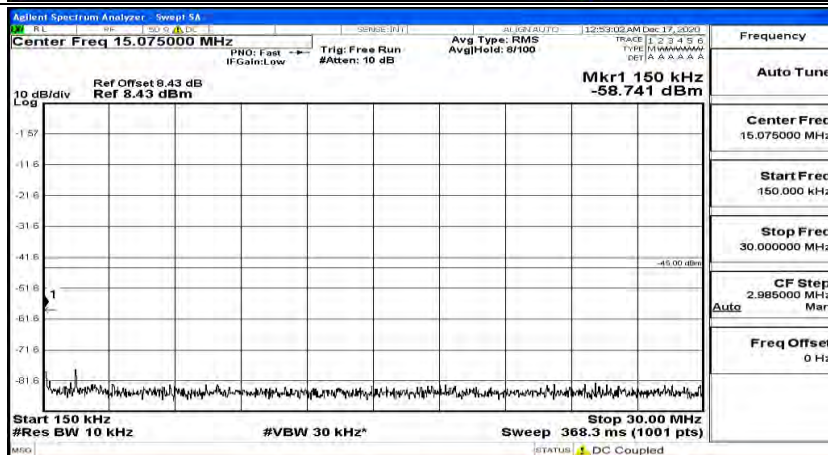
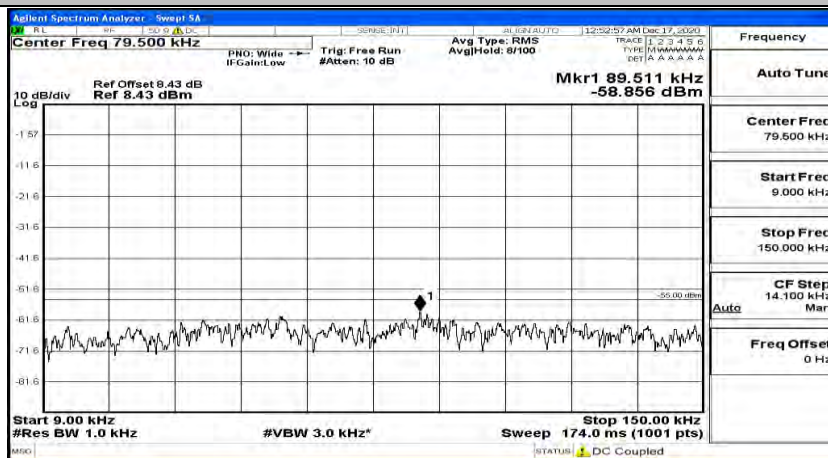
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12





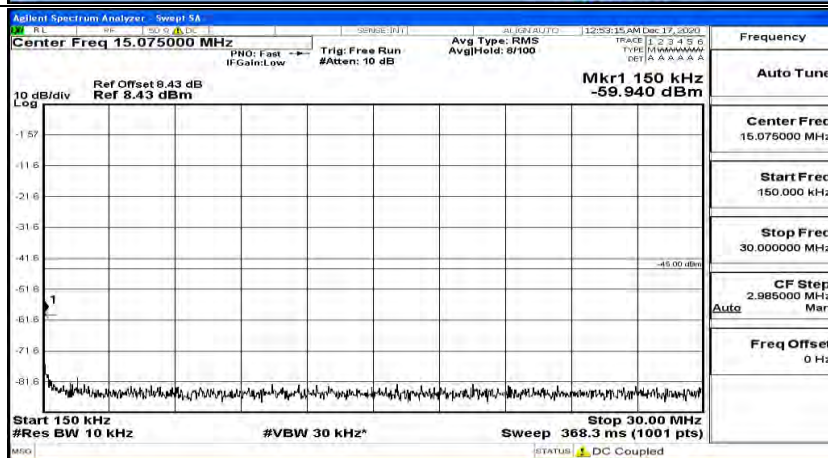
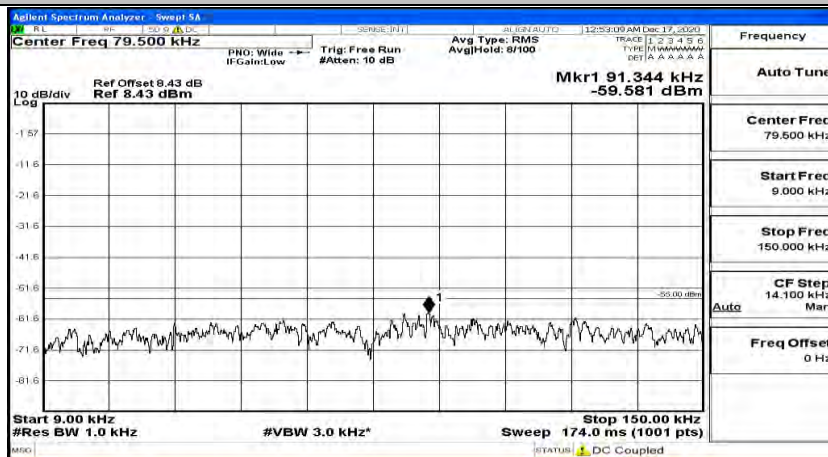


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

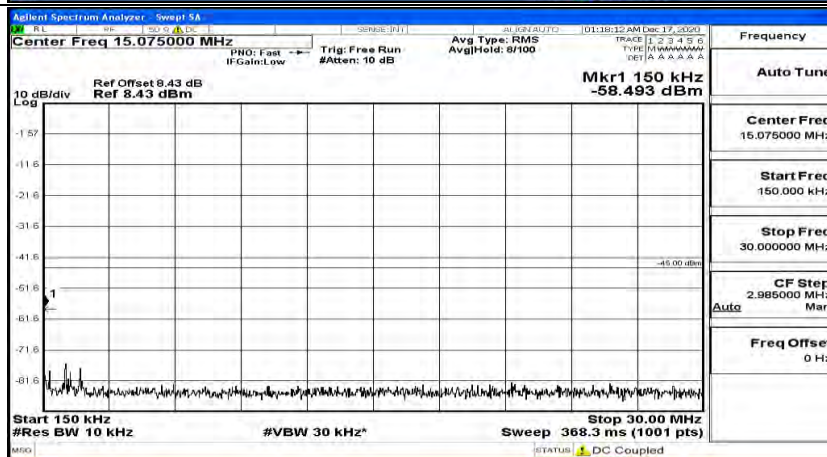
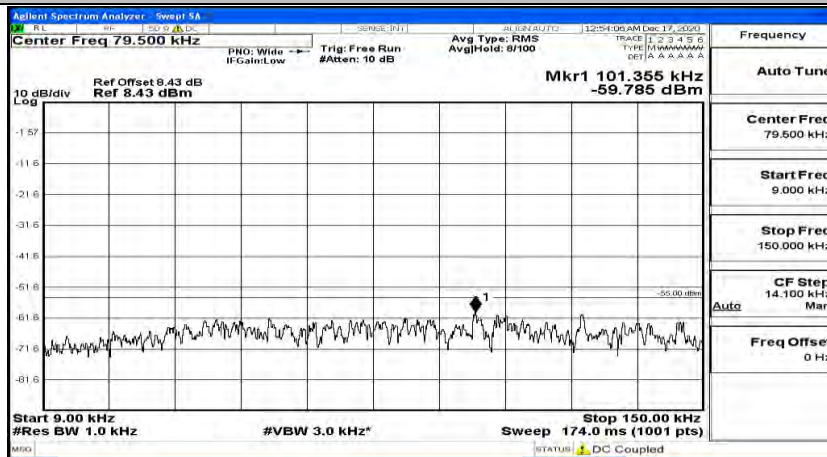




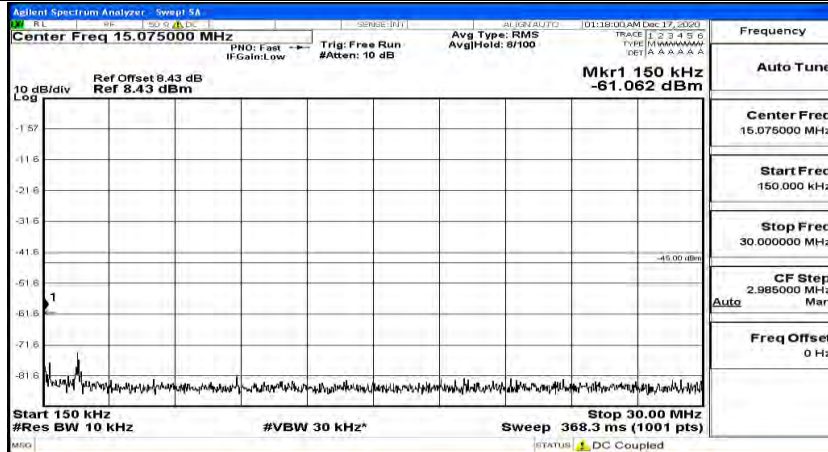
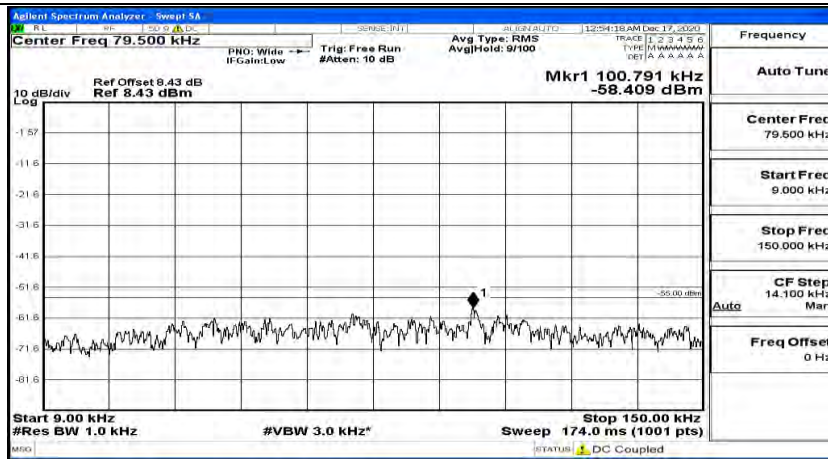
(Channel Bandwidth: 5 MHz) MCH_QPSK_1RB#24



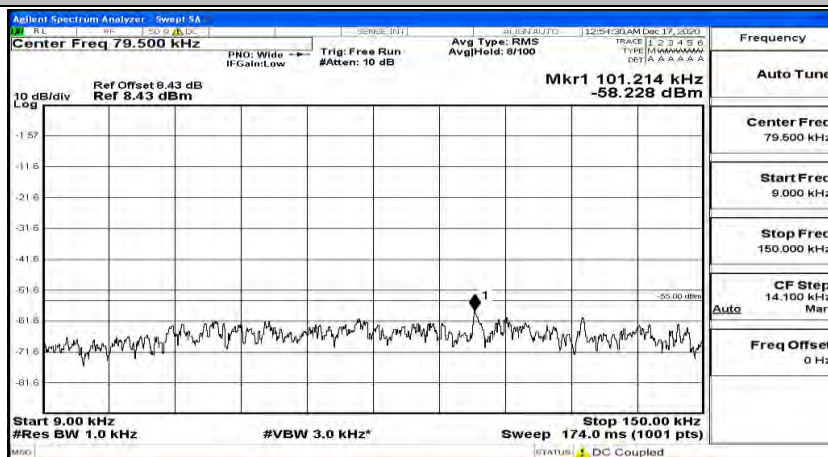
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

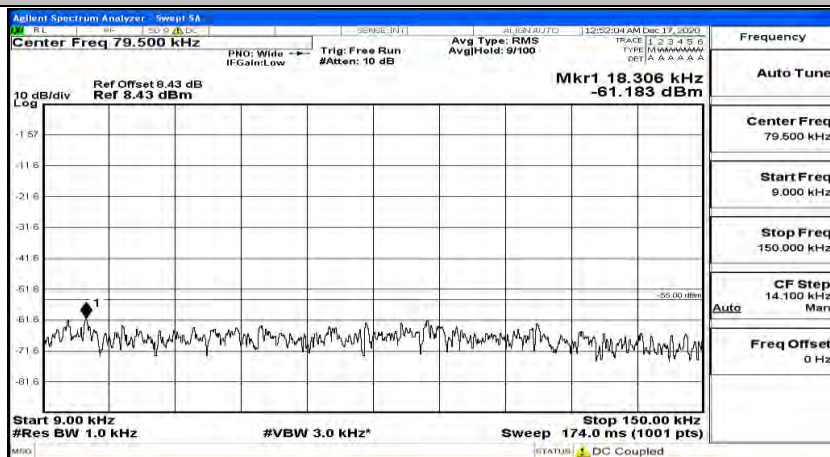


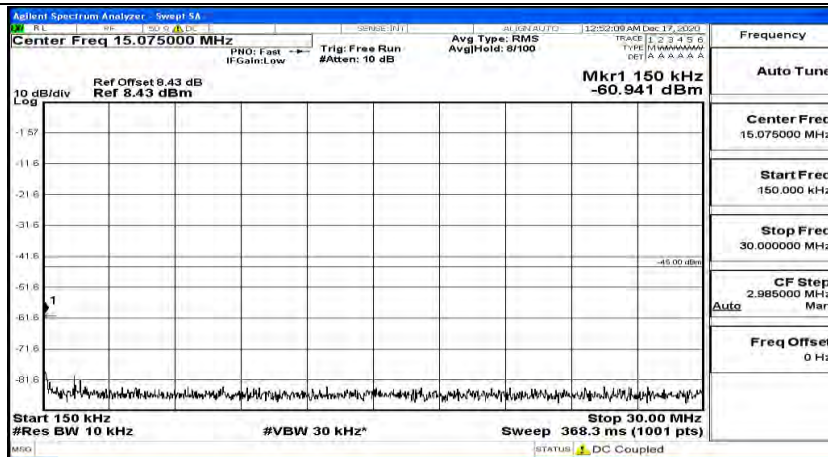
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



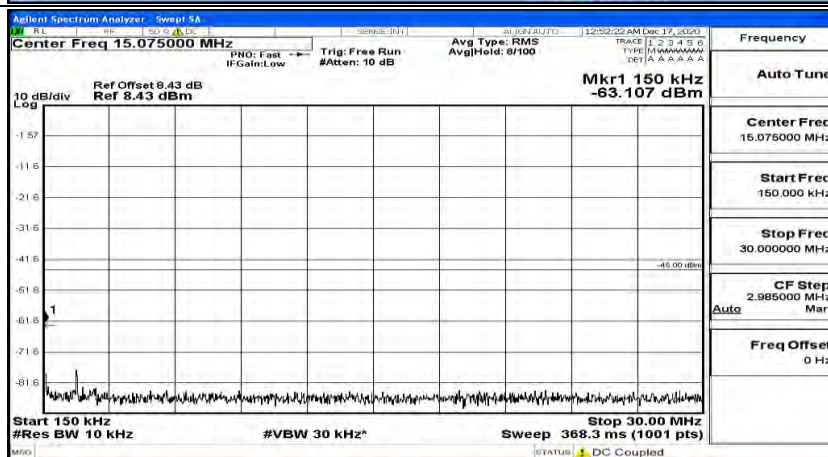
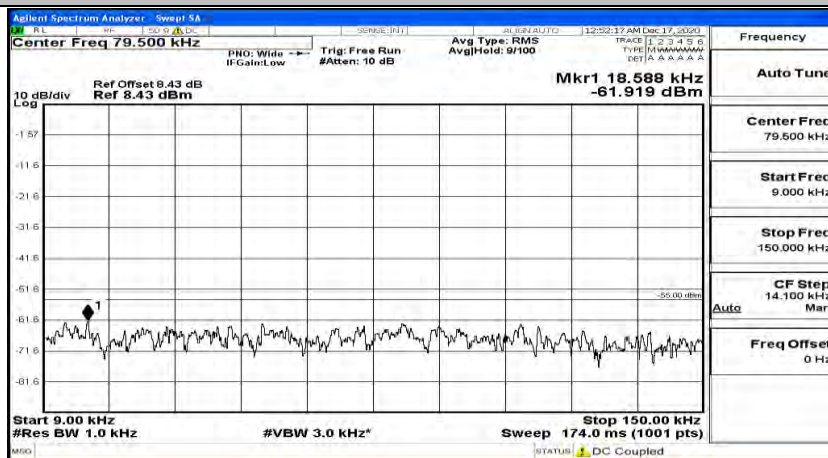


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



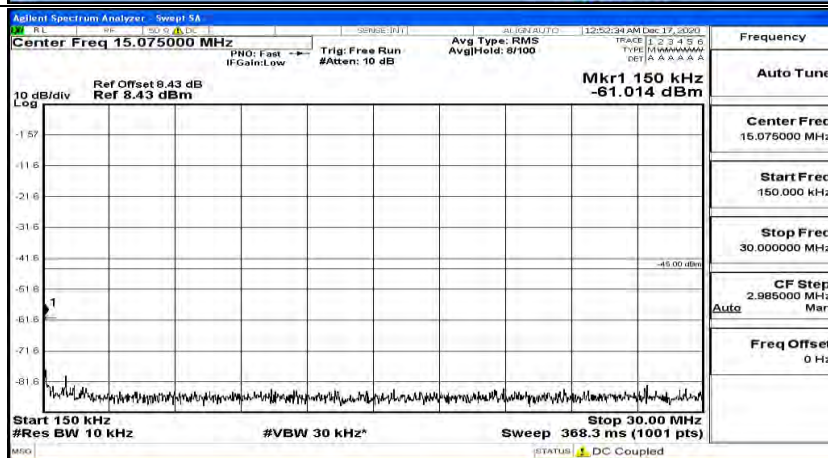
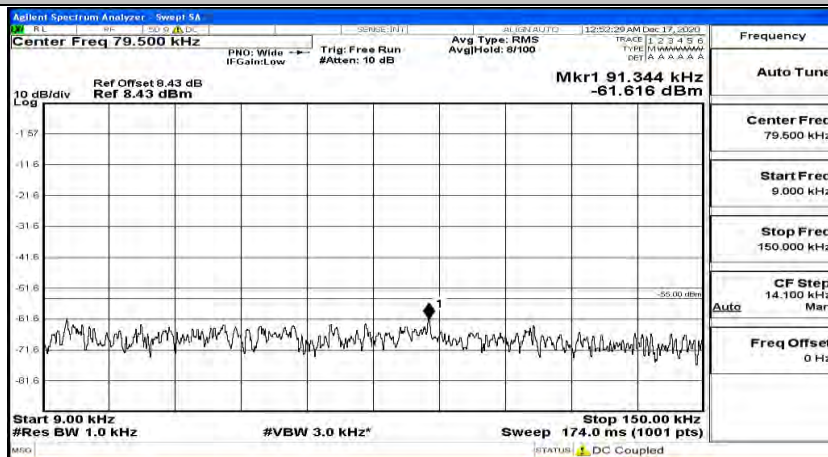


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

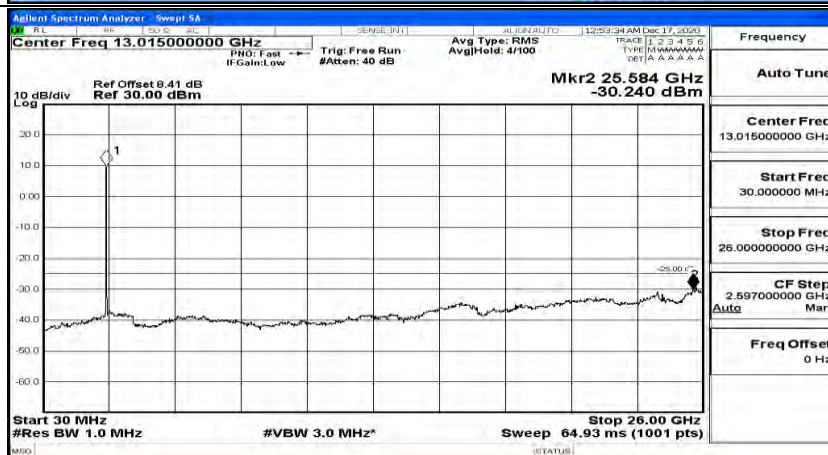
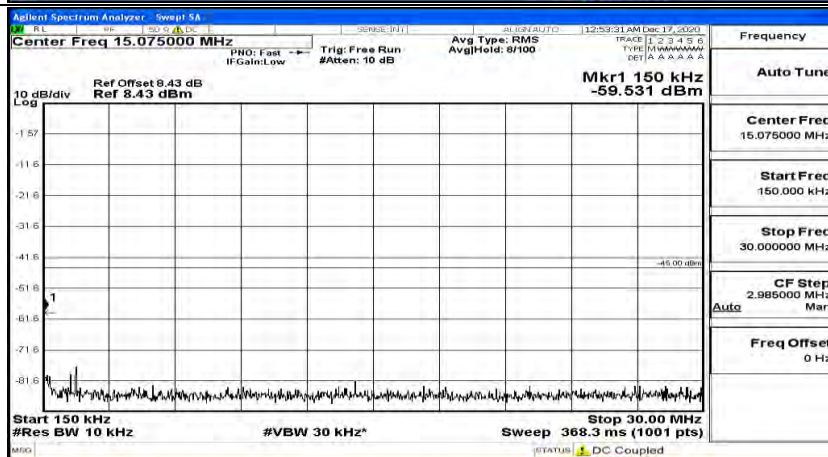
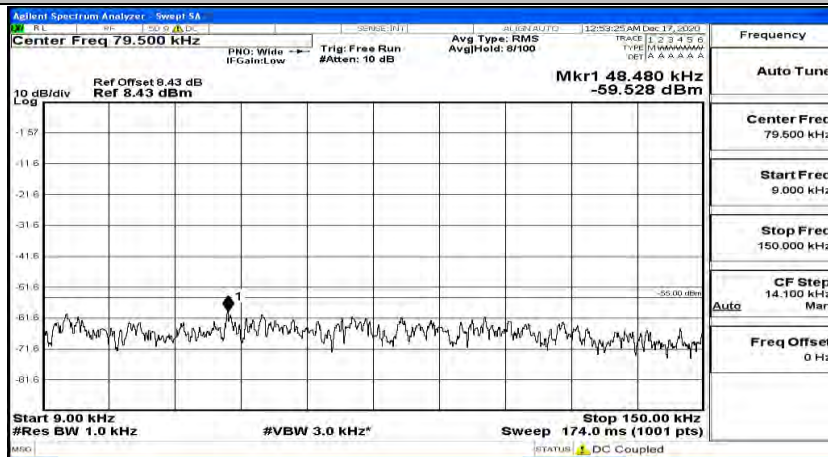




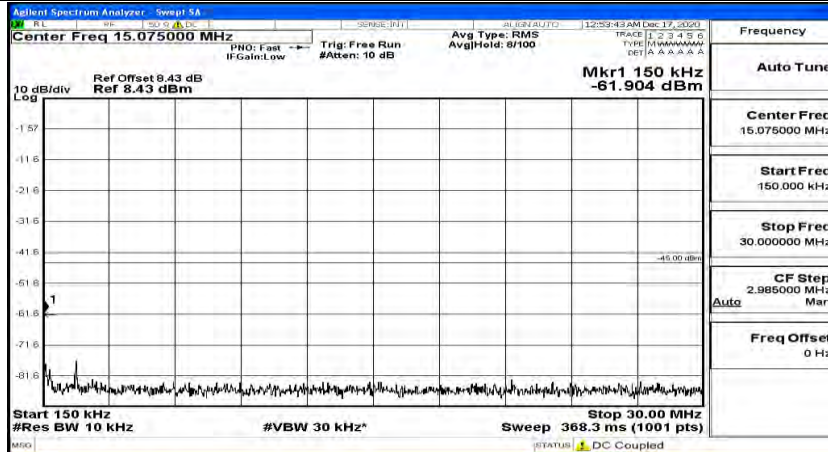
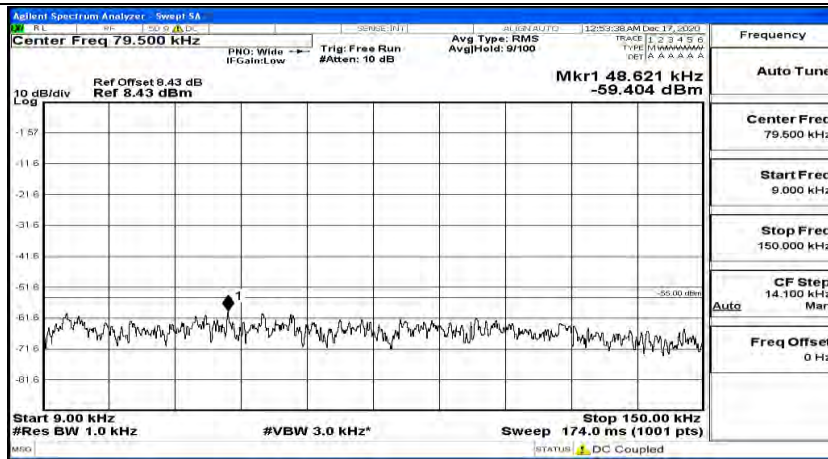
(Channel Bandwidth: 5 MHz) LCH_16QAM_1RB#24



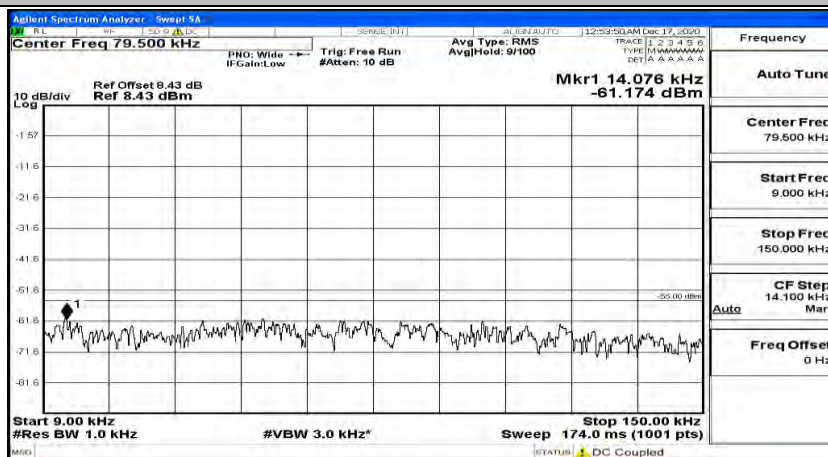
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

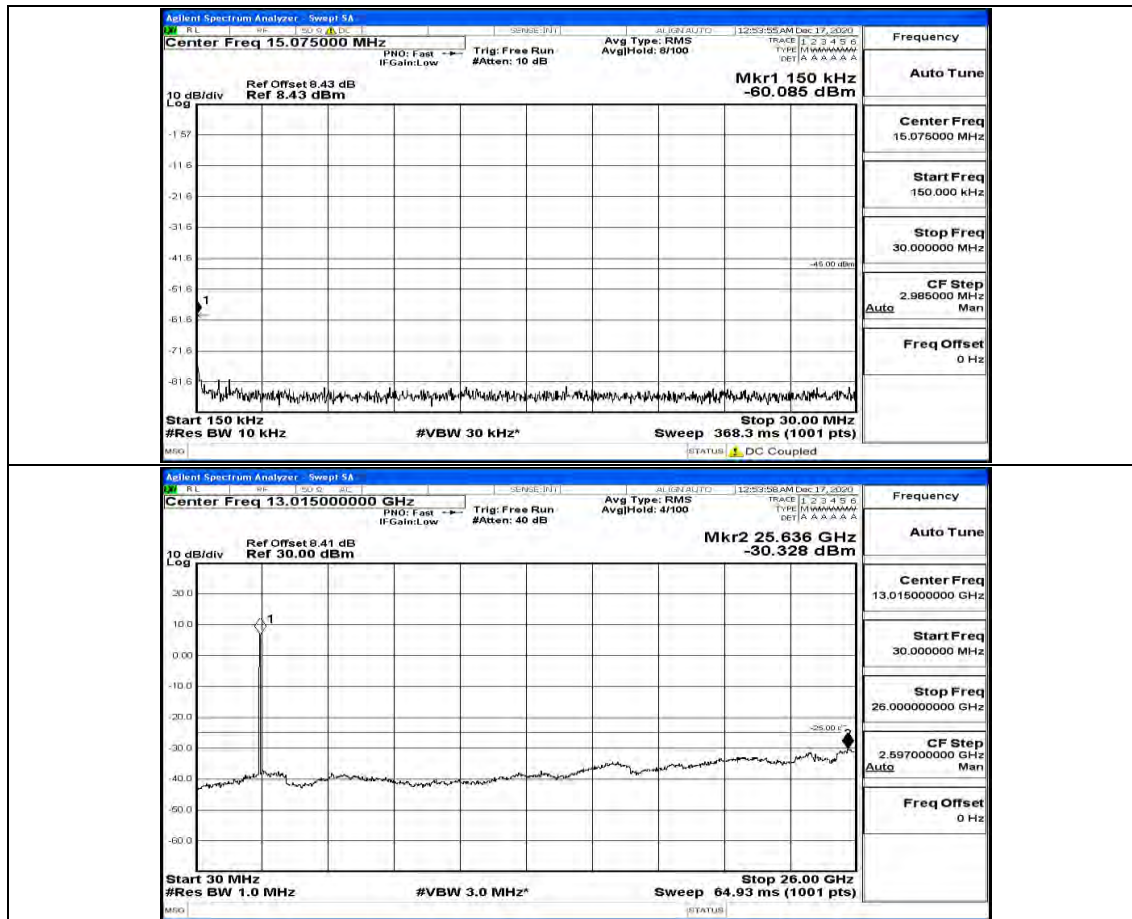


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

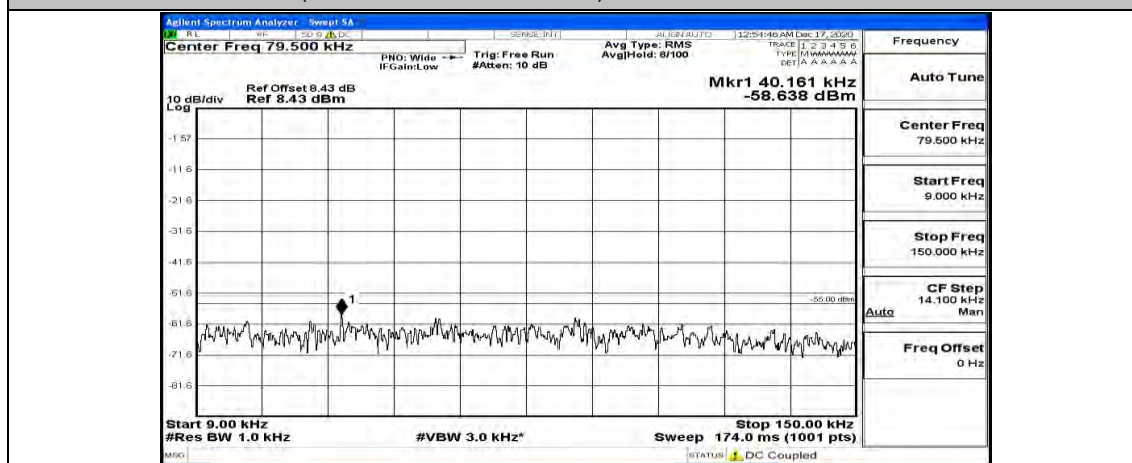


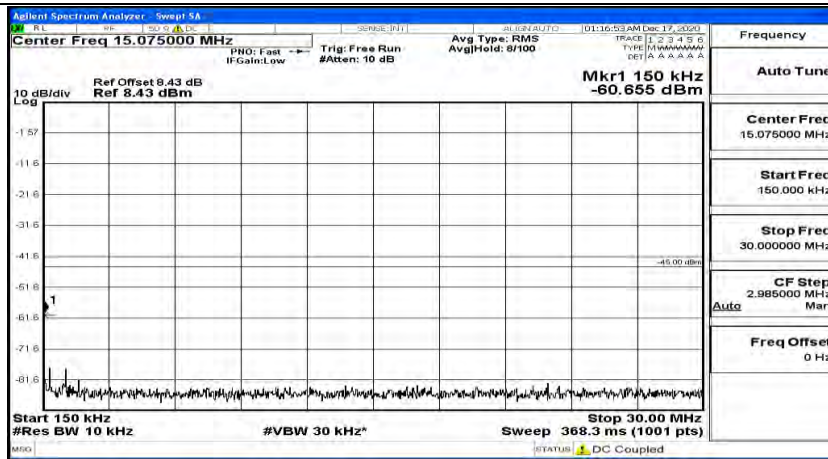
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



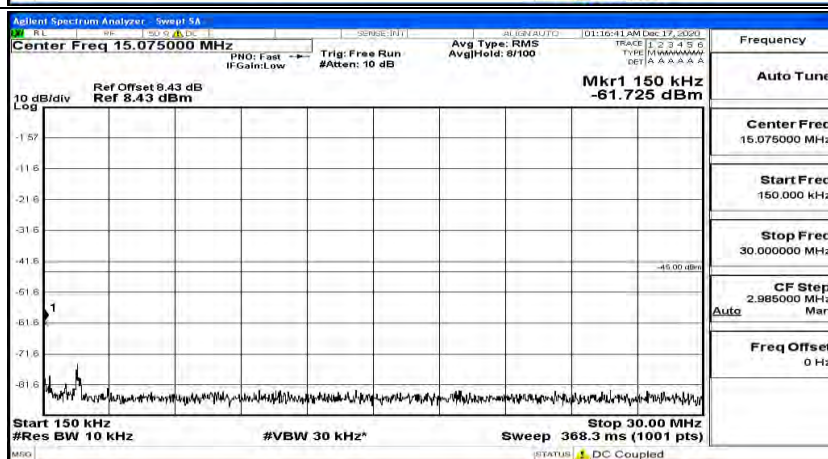
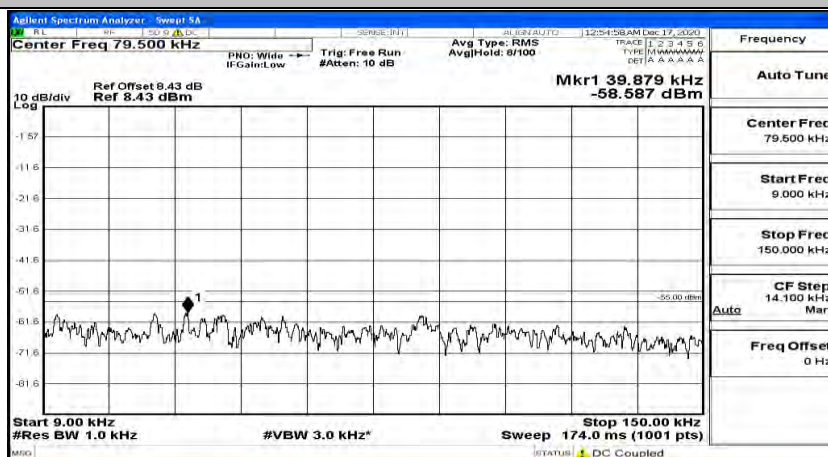


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



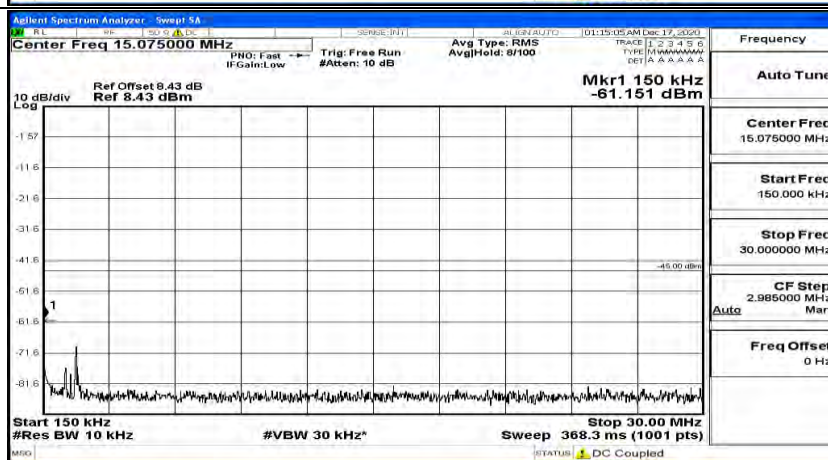
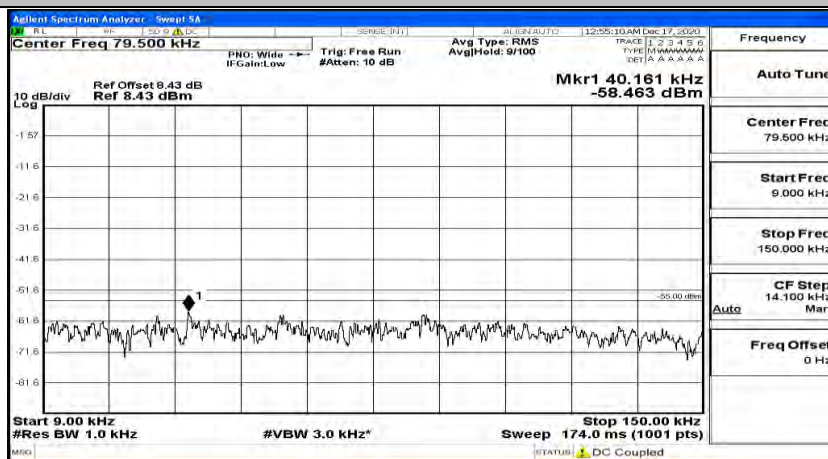


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

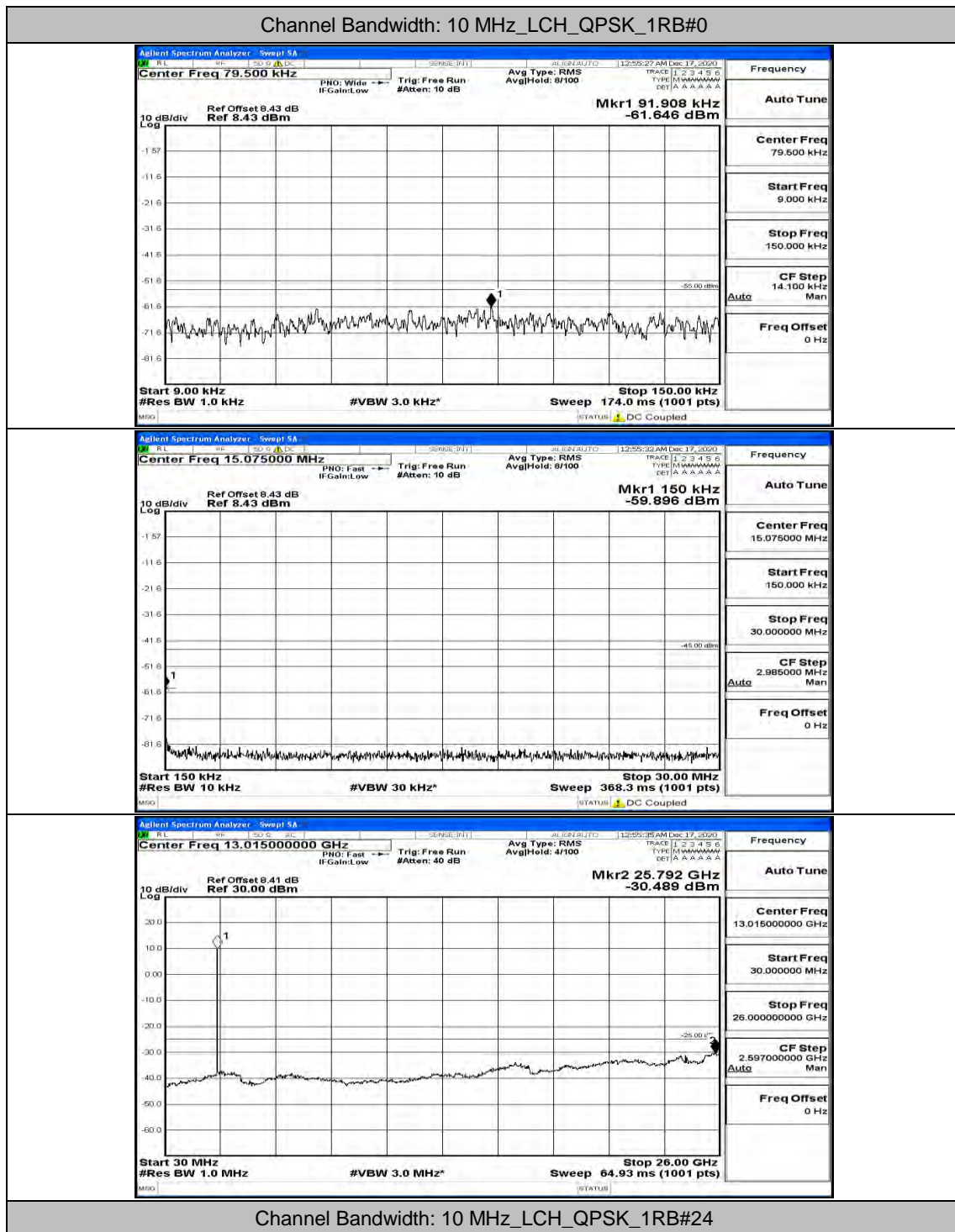


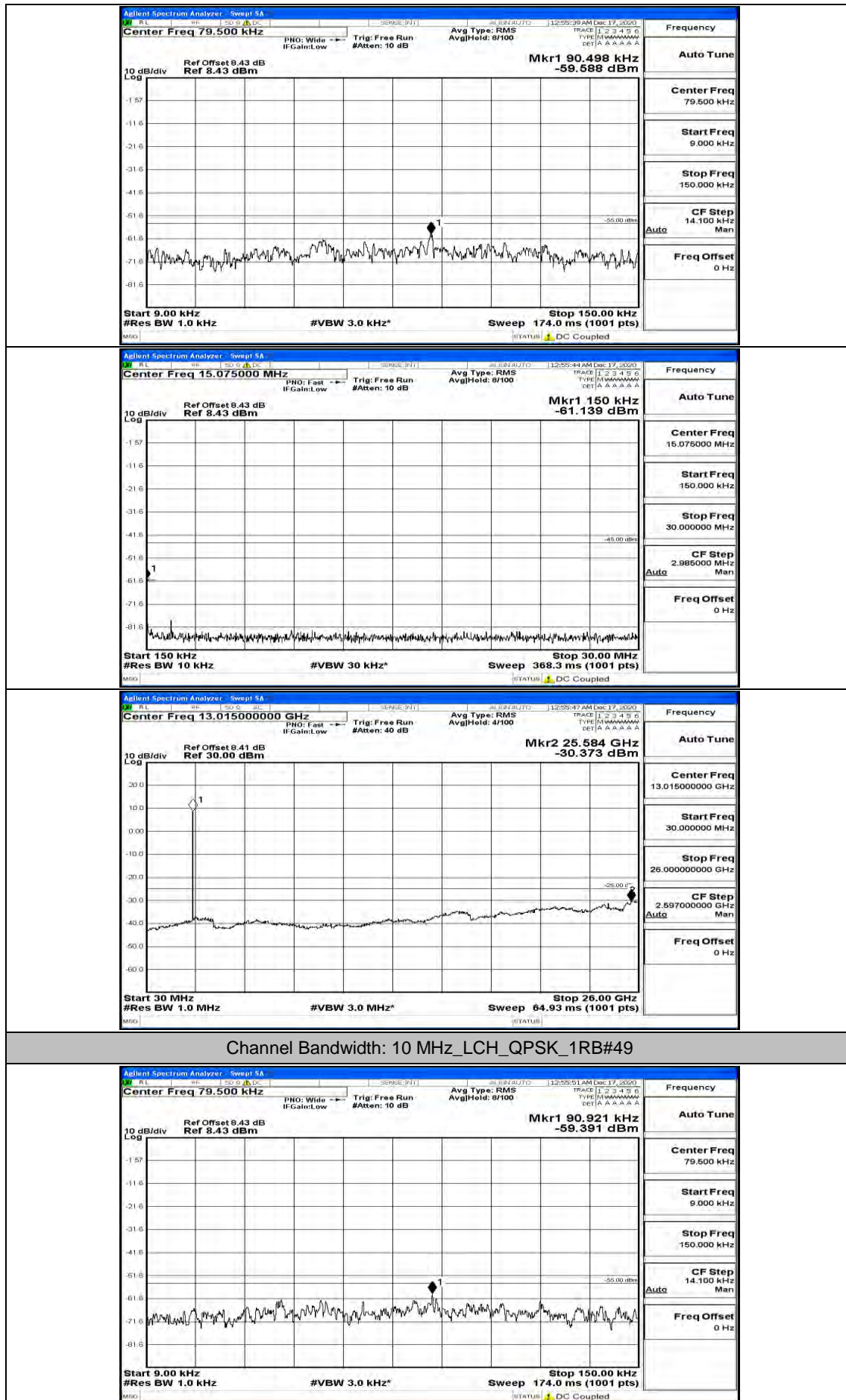


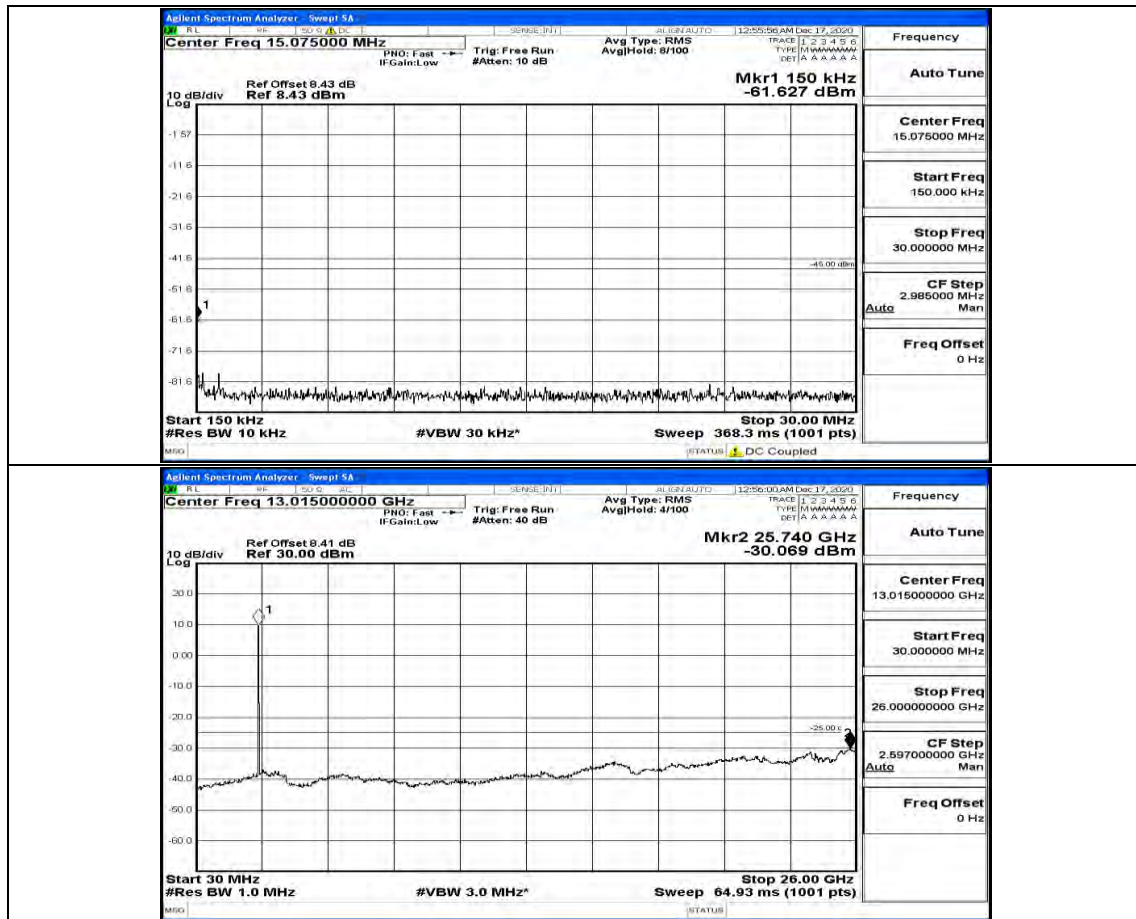
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



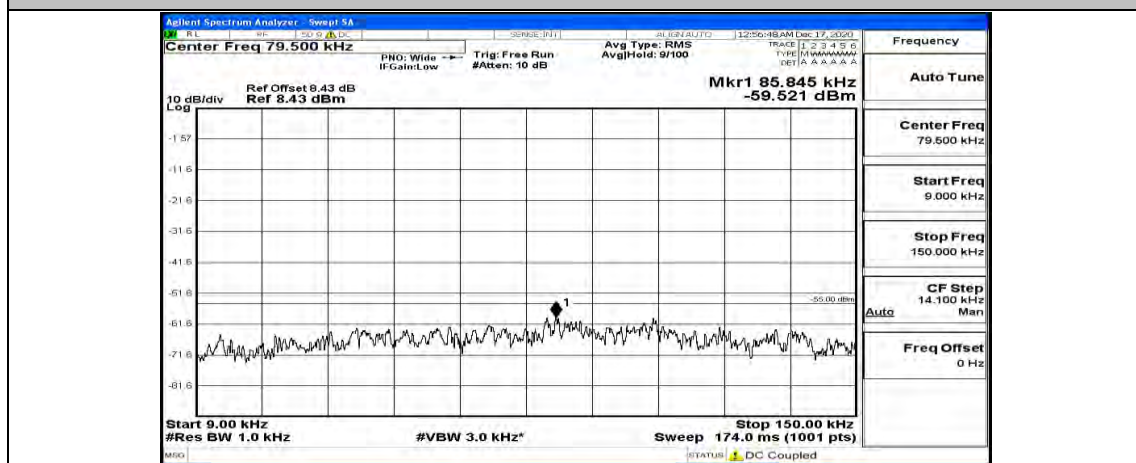
Channel Bandwidth: 10 MHz

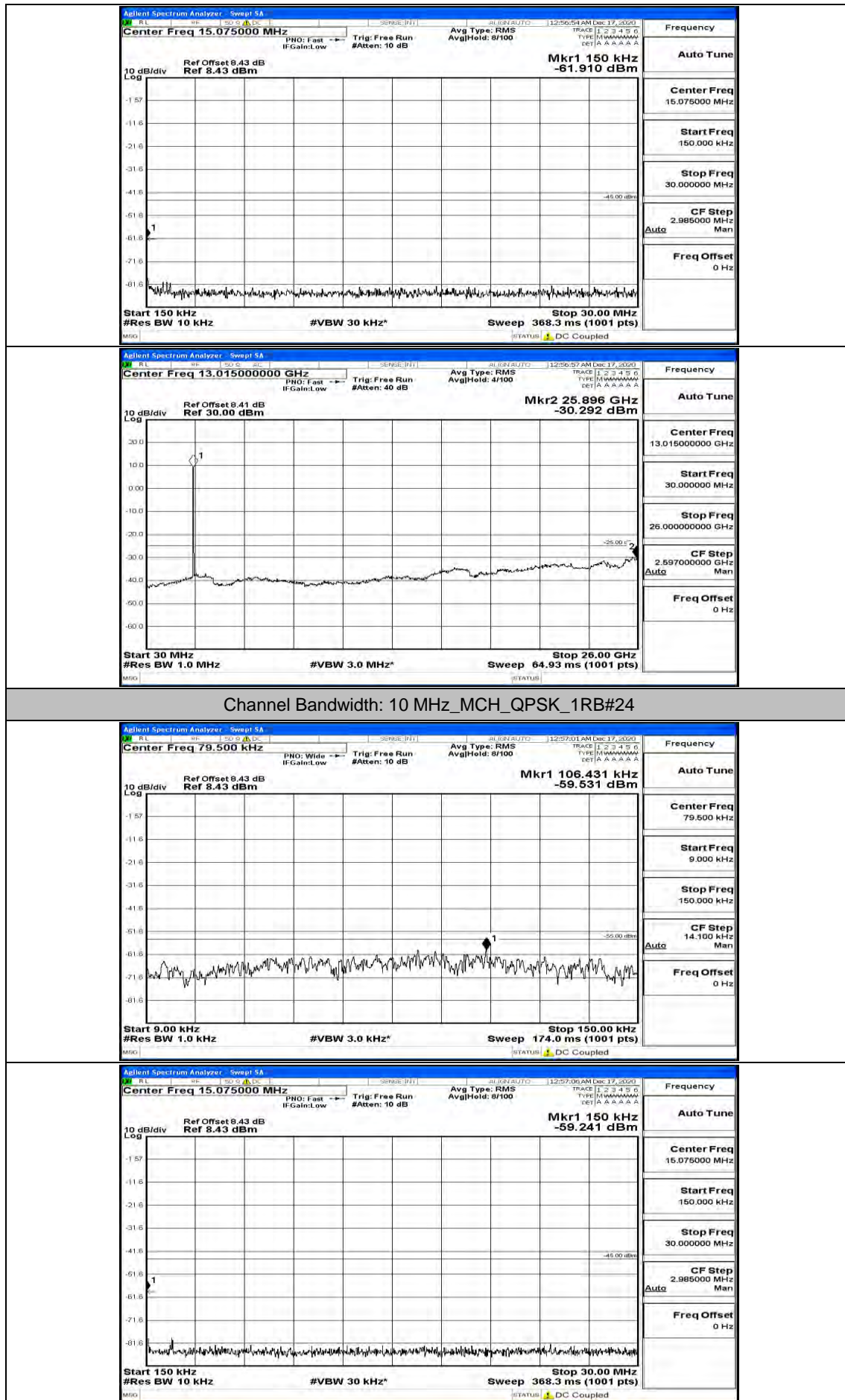


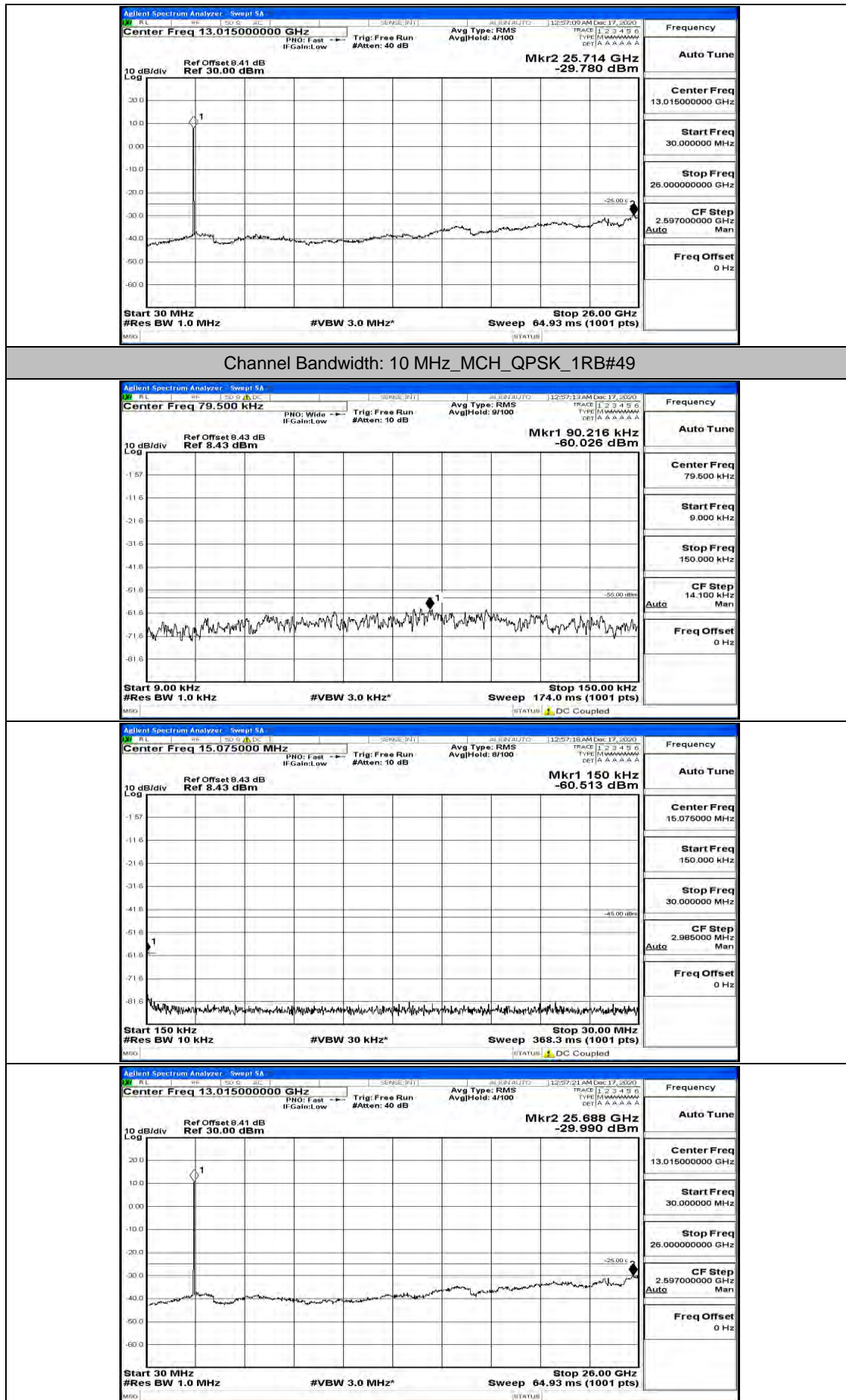




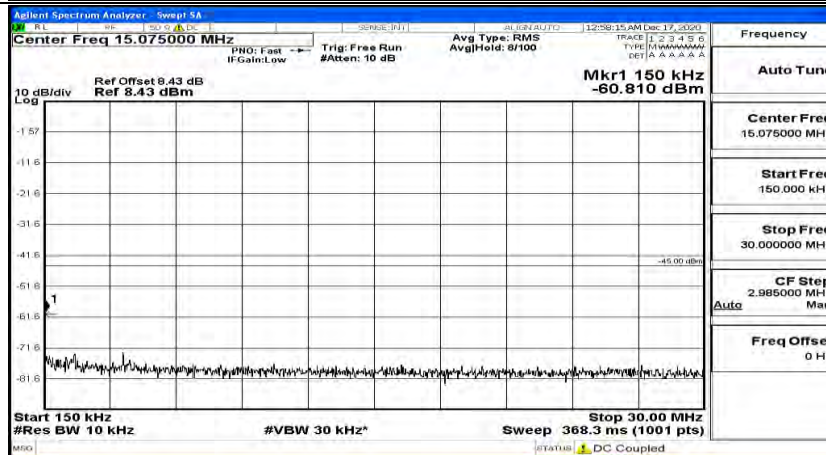
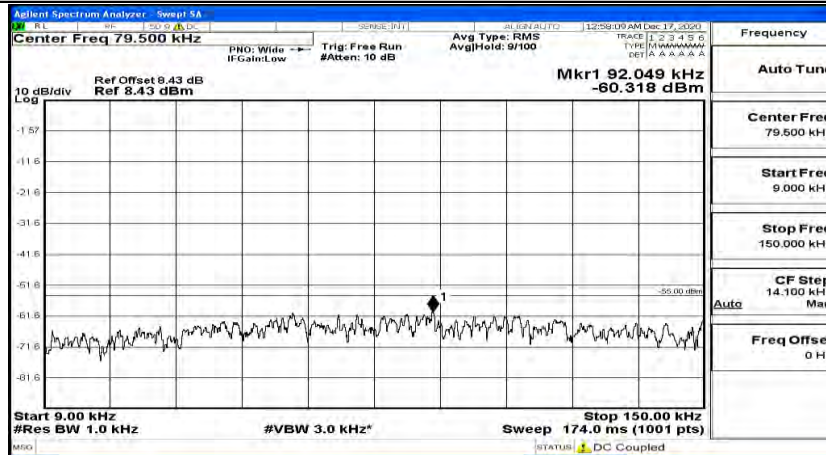
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



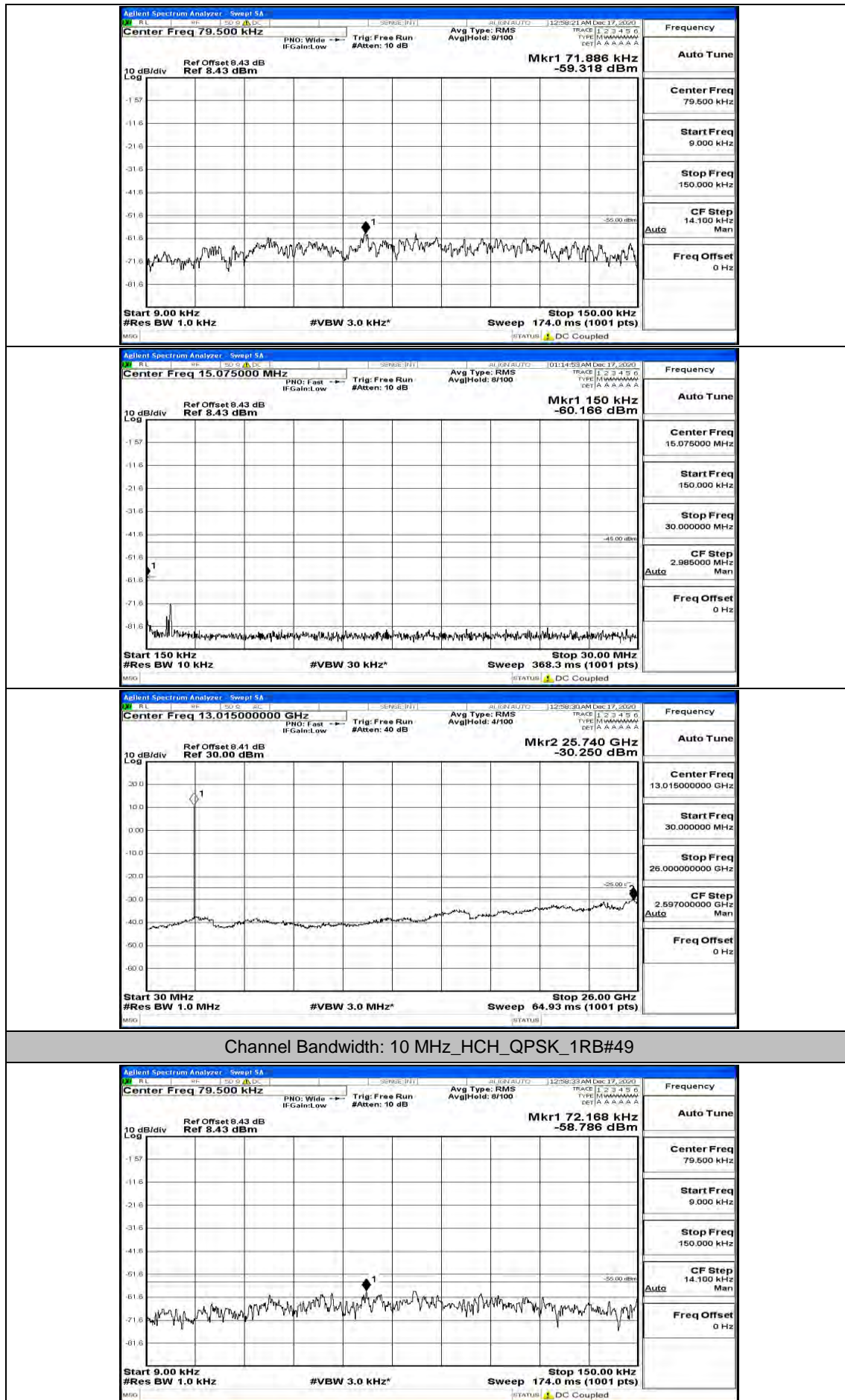


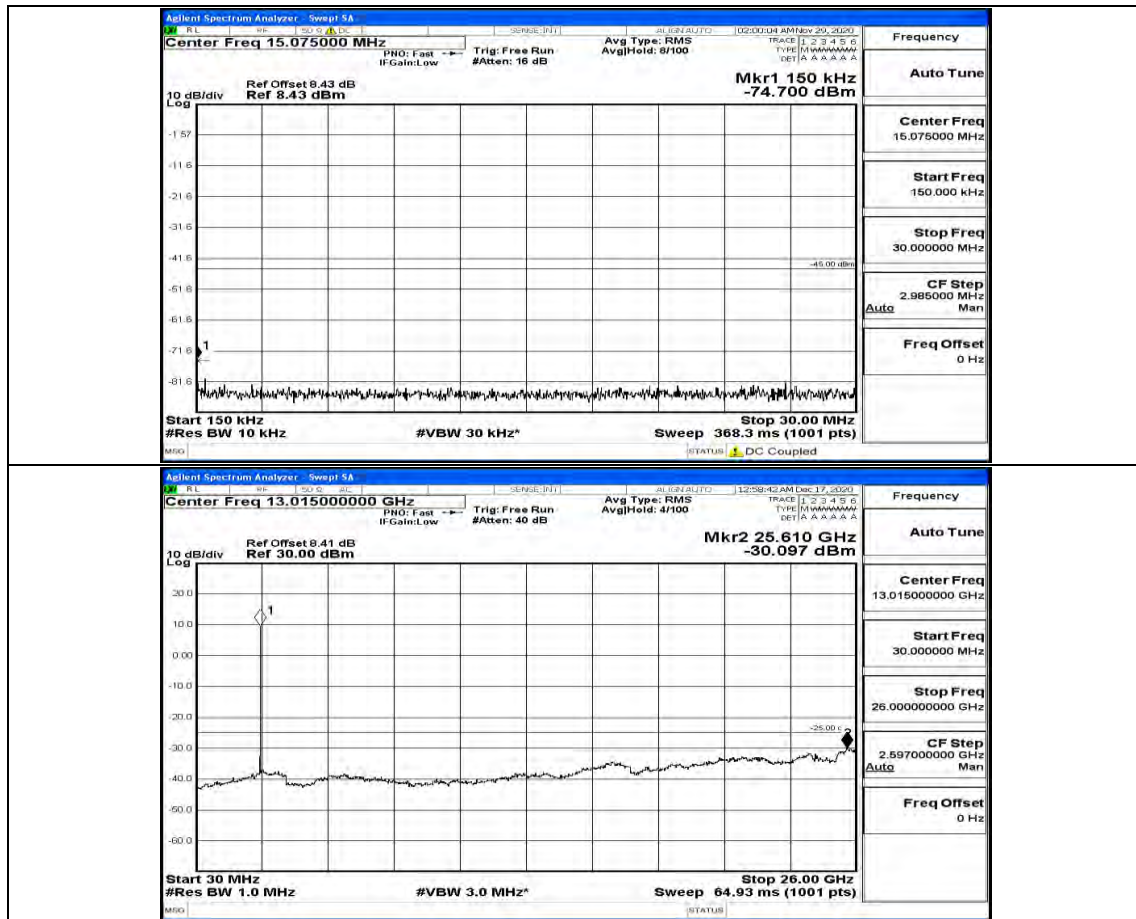


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

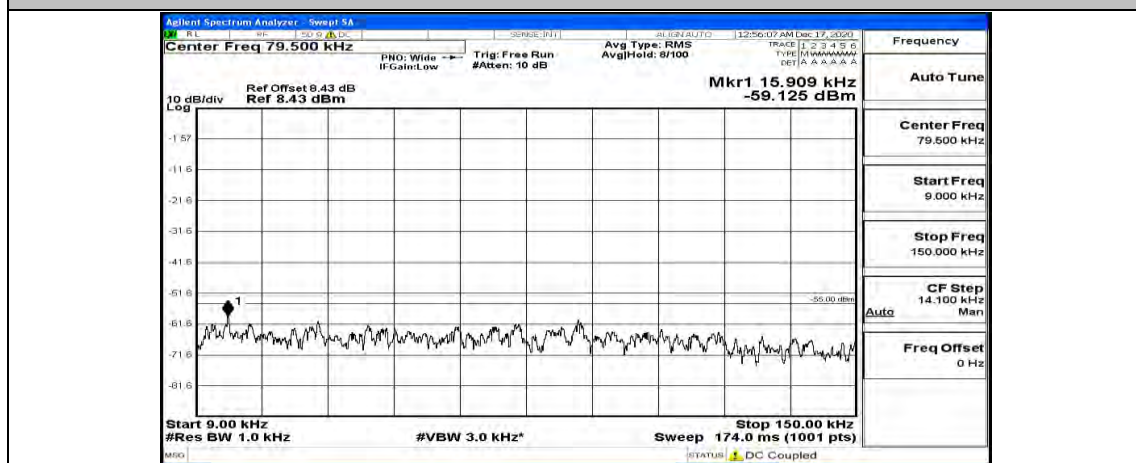


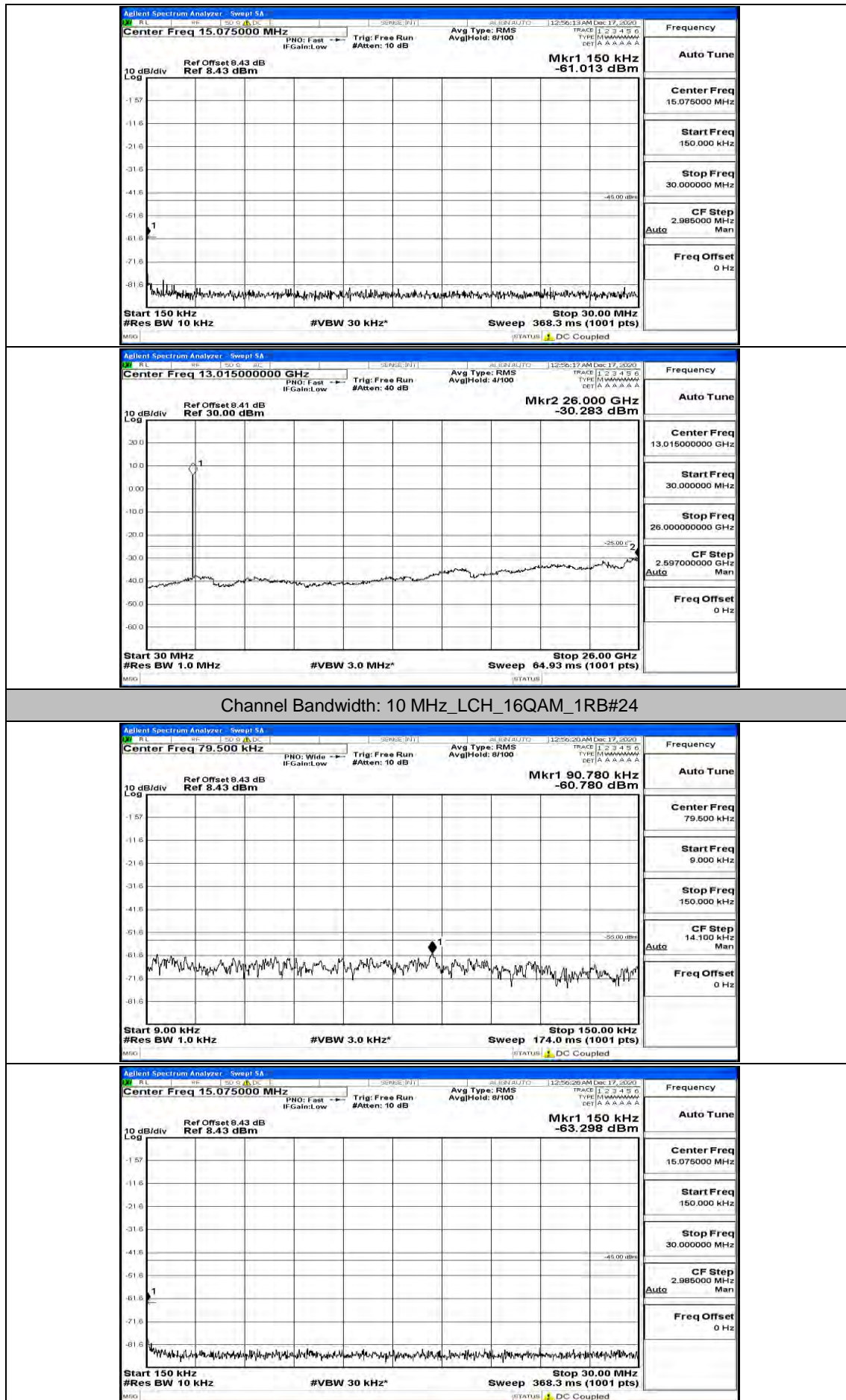
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

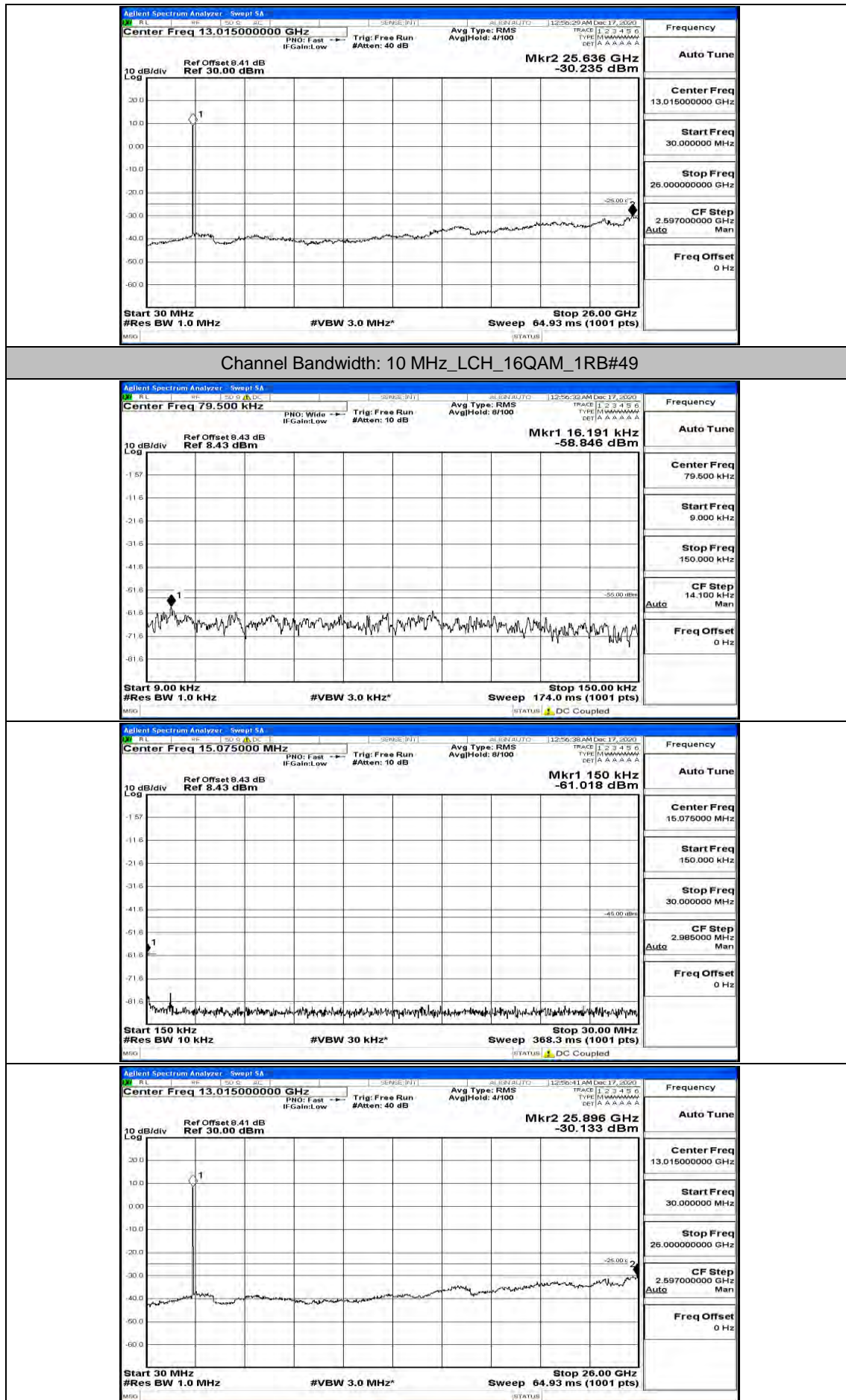




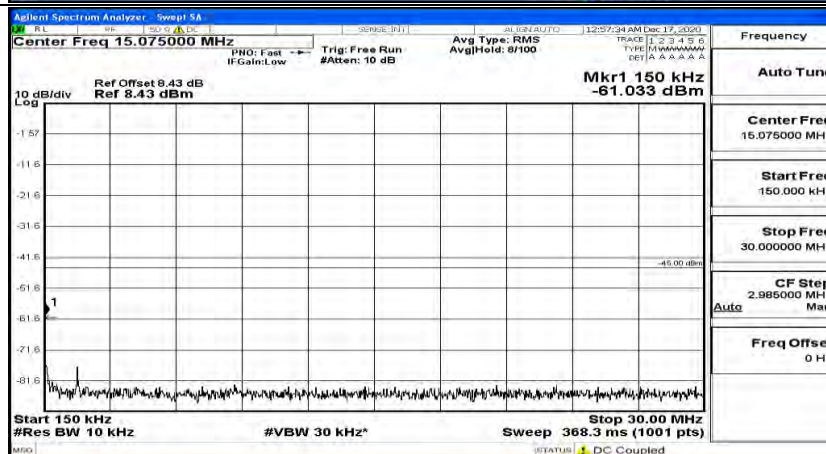
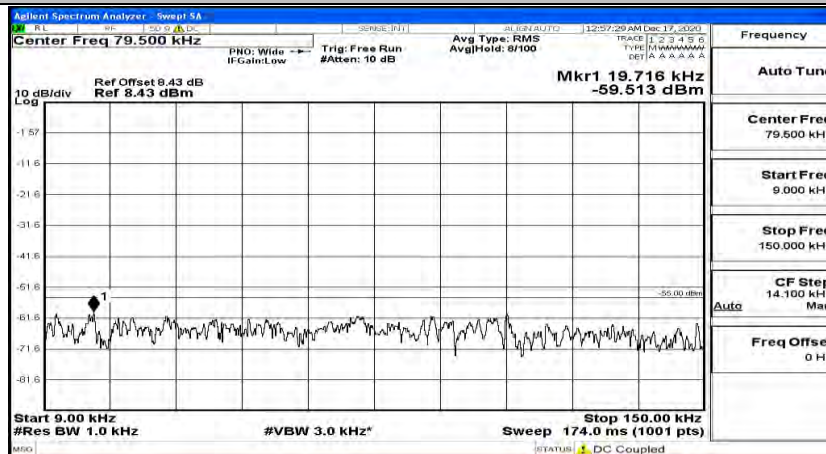
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



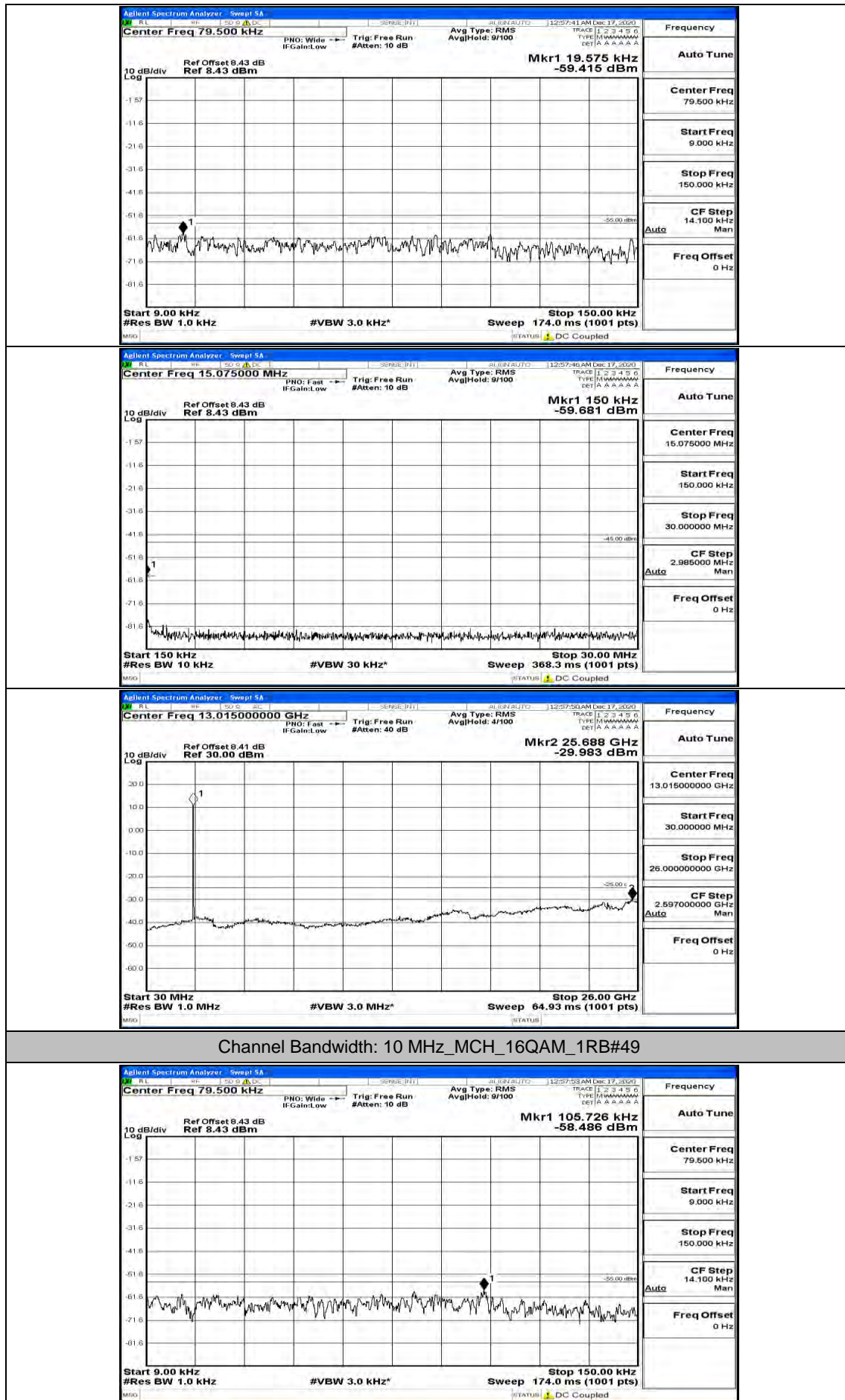


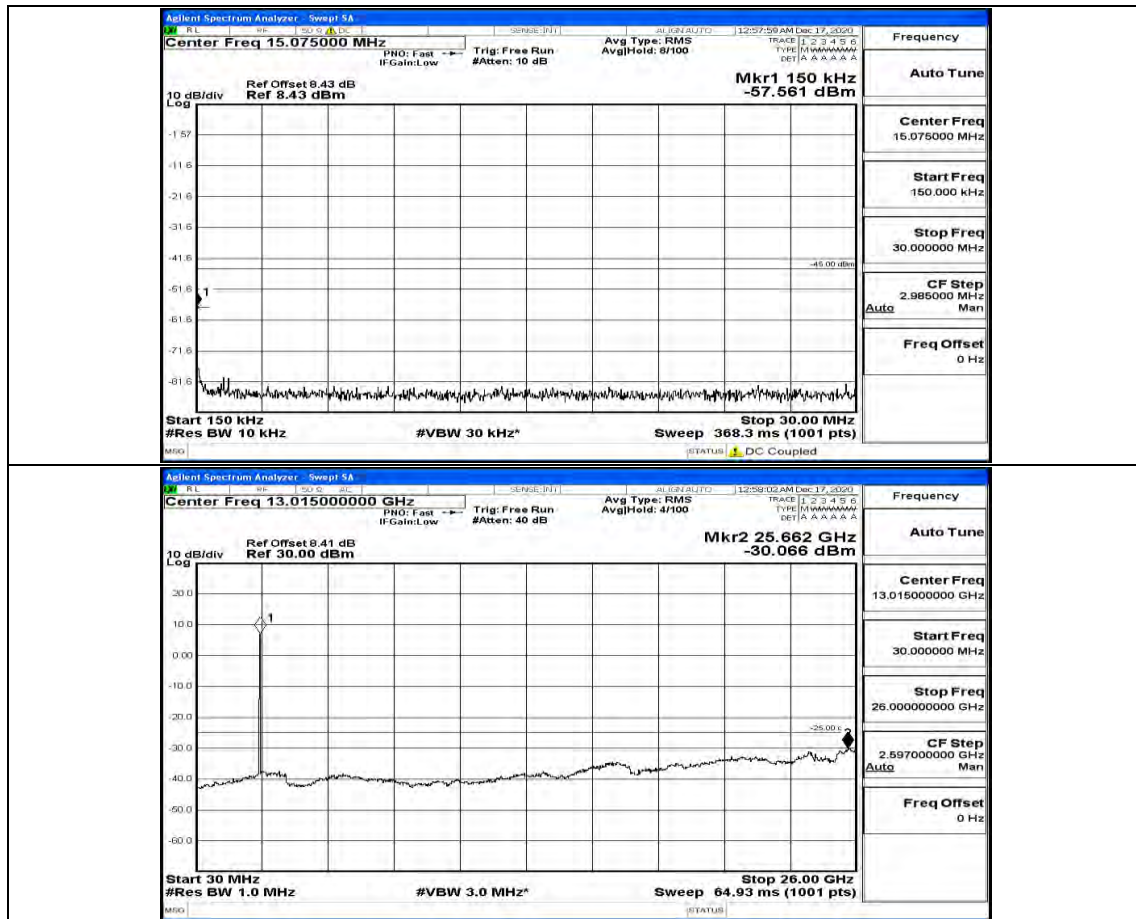


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

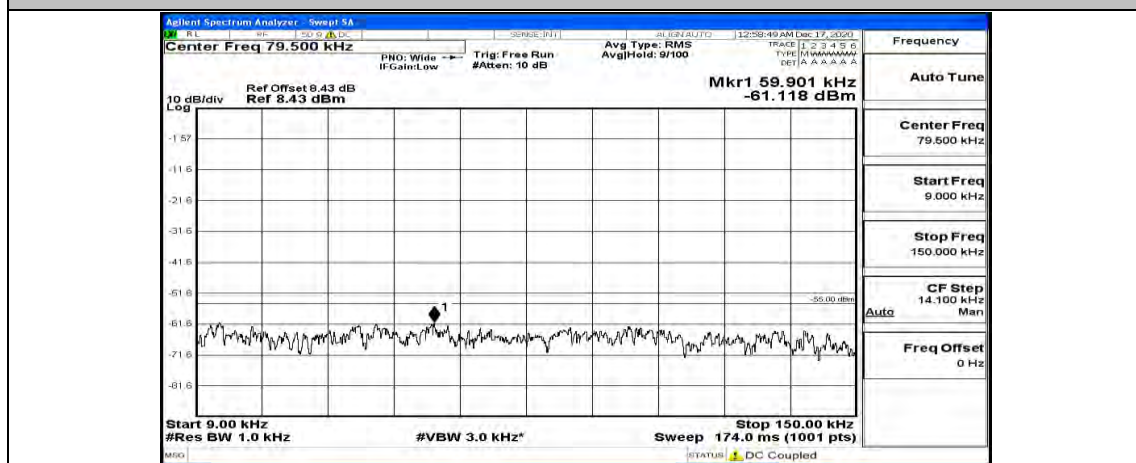


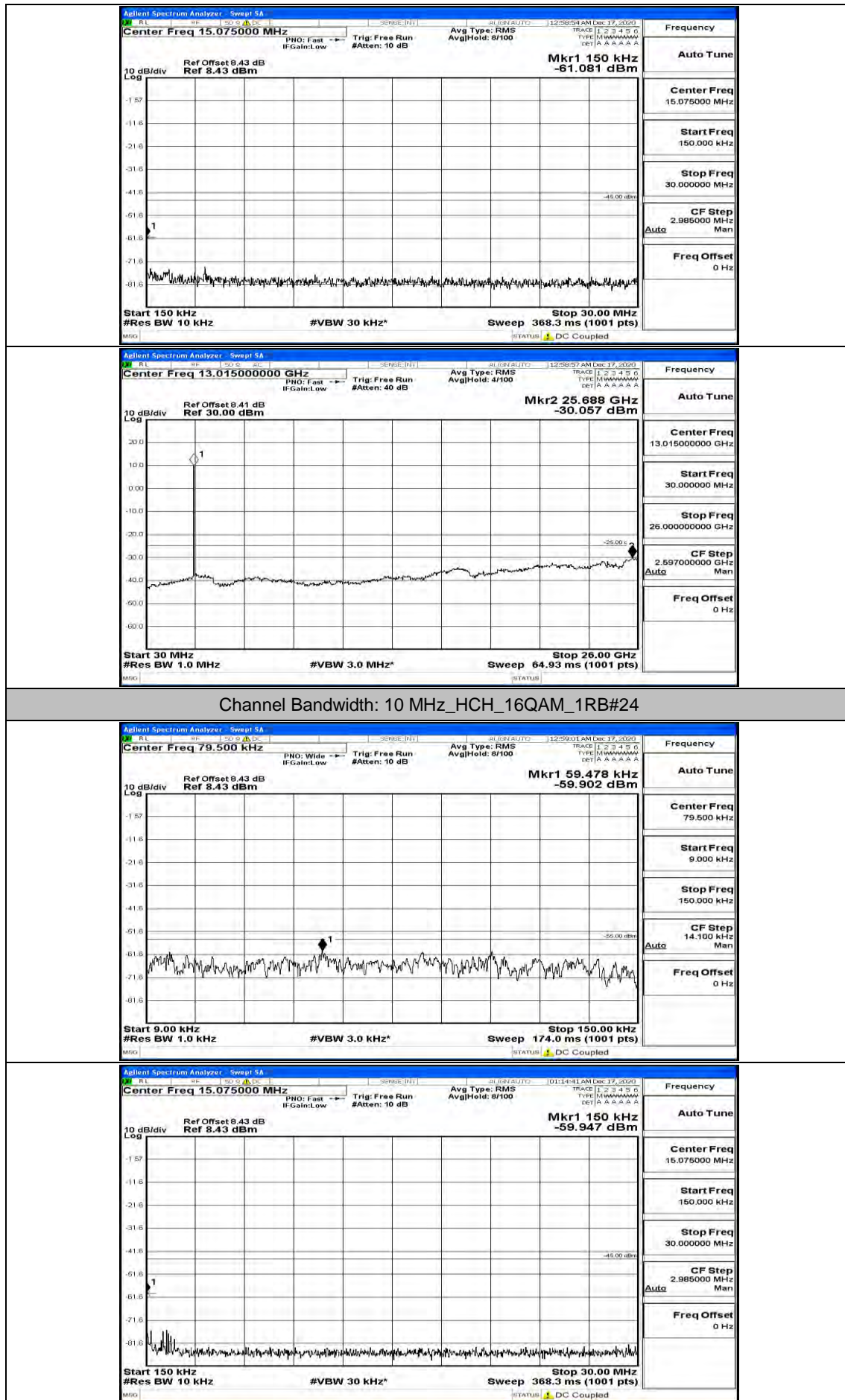
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

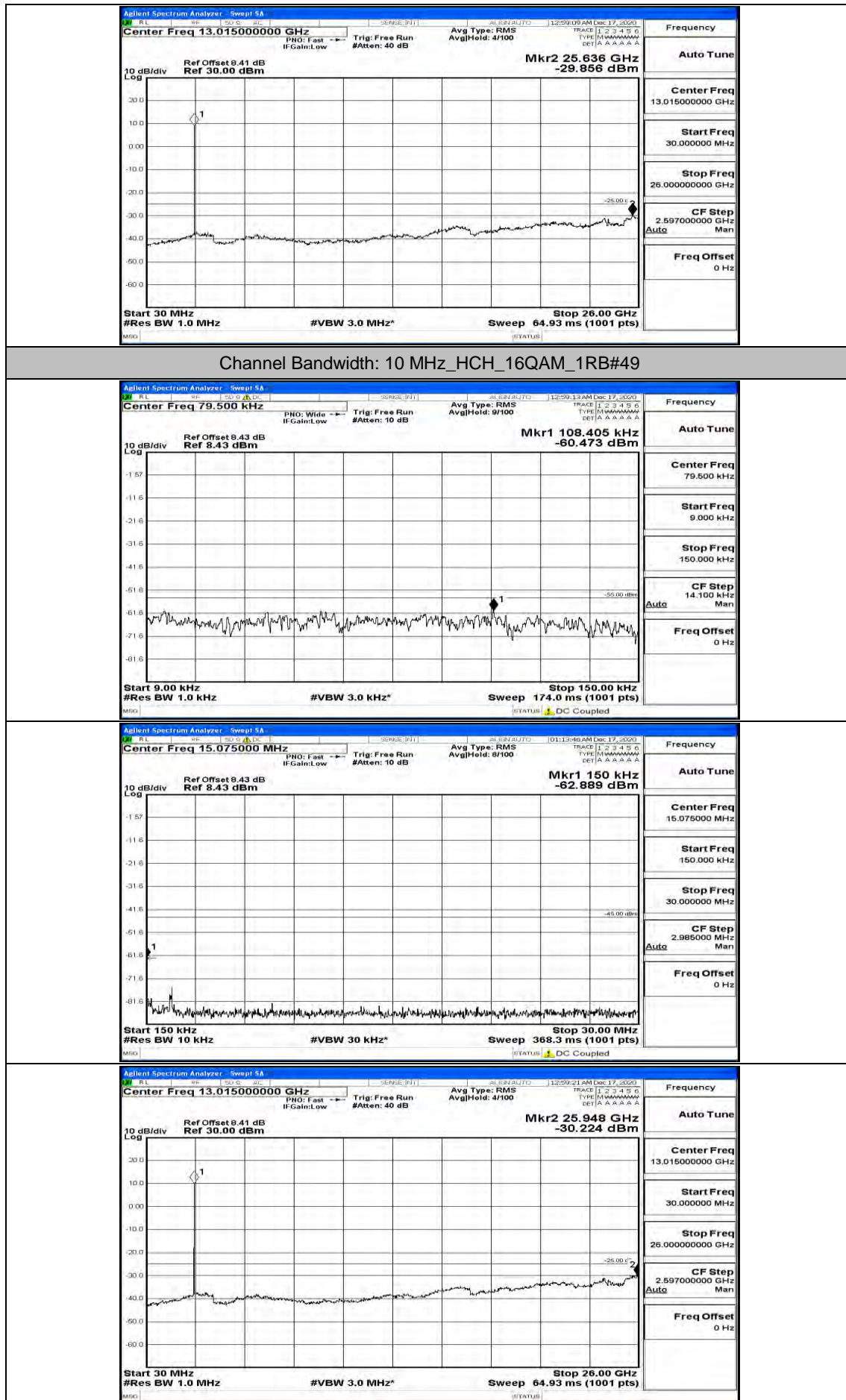




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

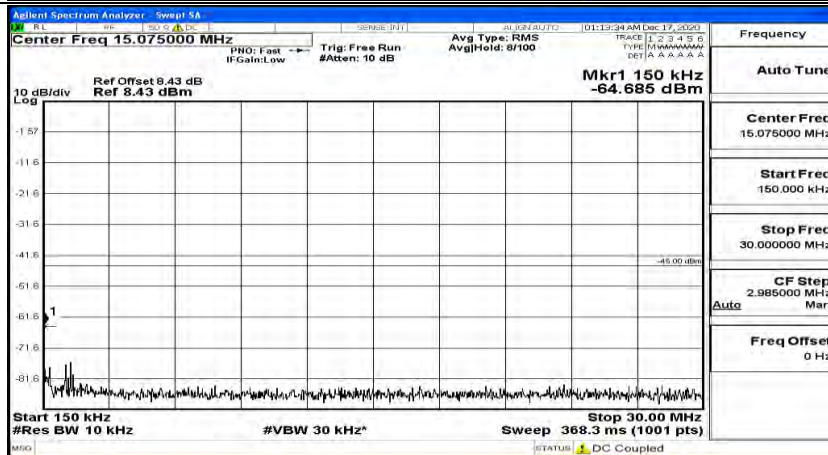
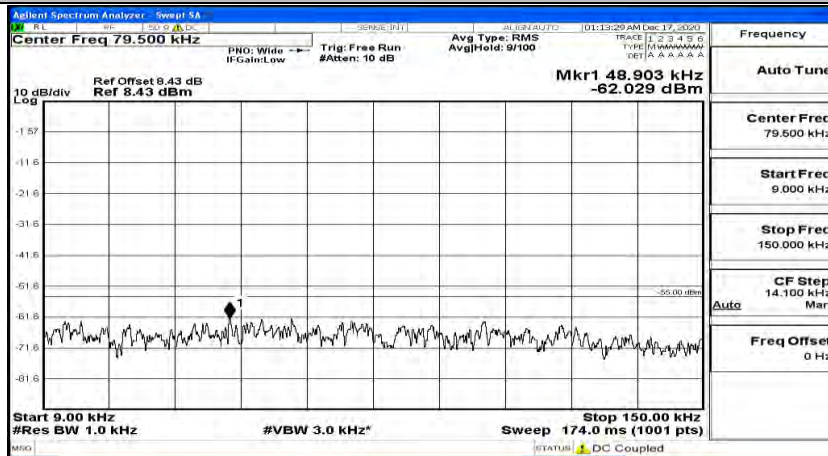




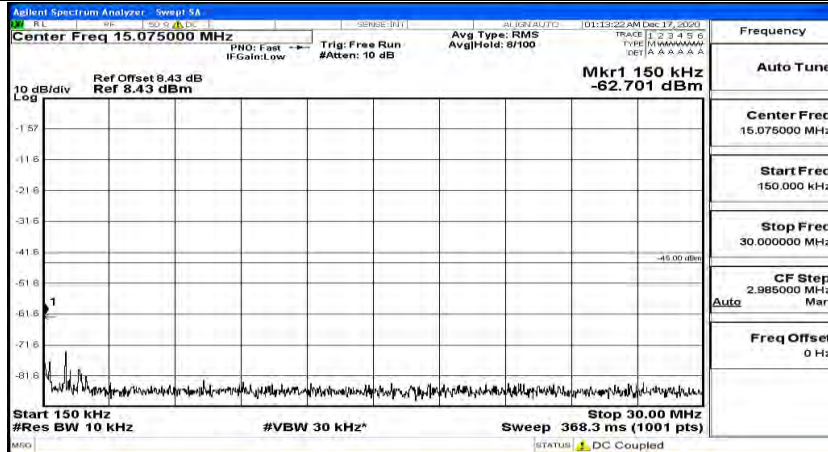
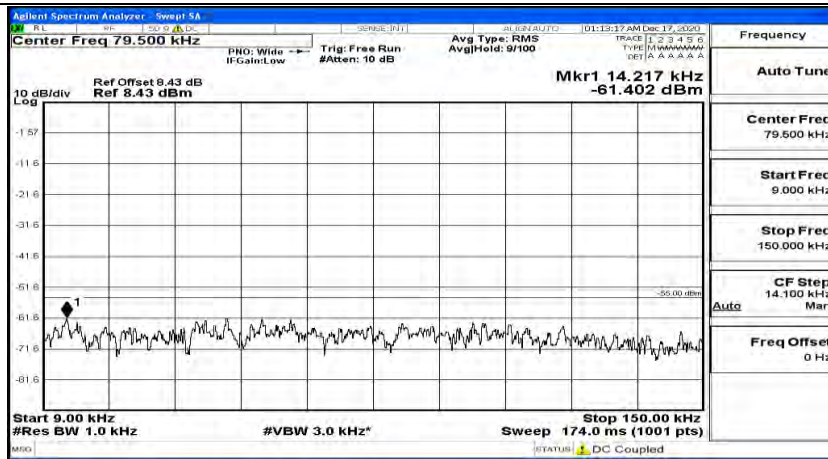


Channel Bandwidth: 15 MHz

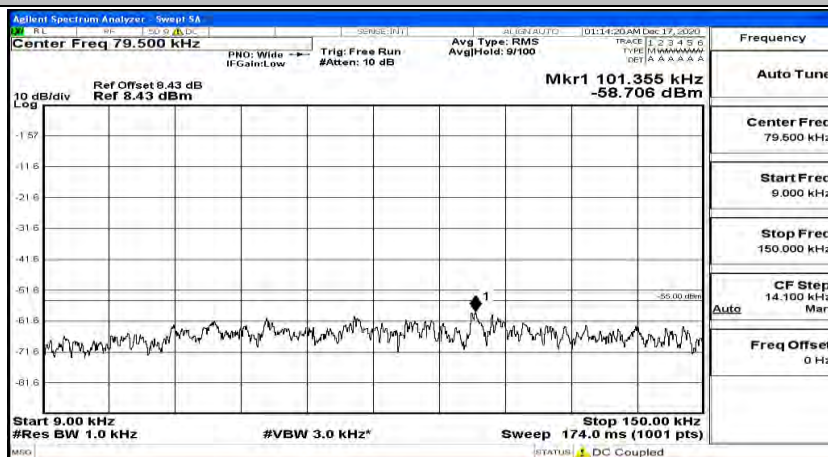
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0

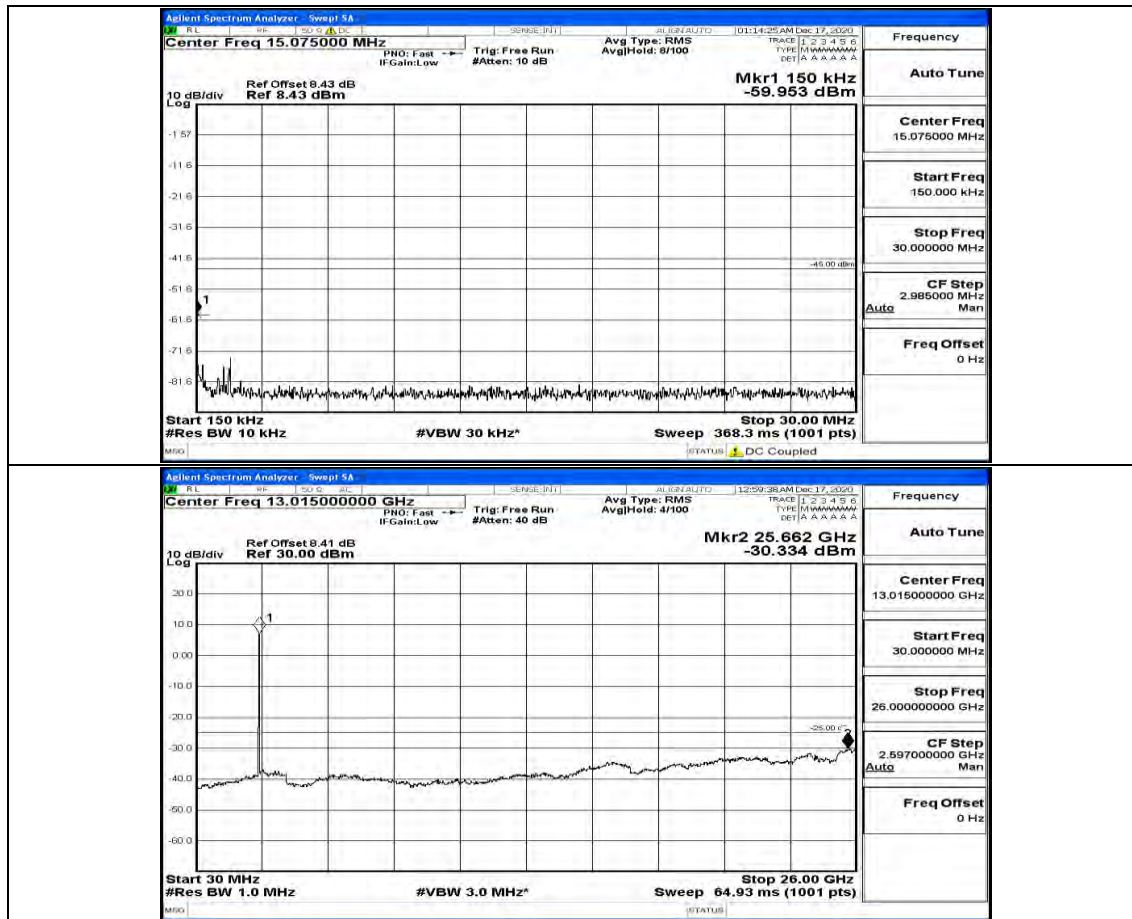


(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37

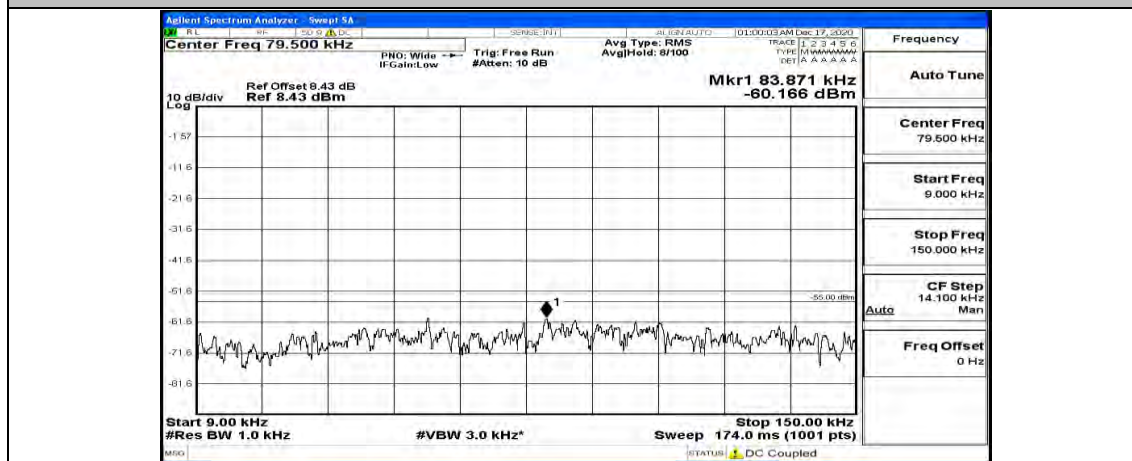


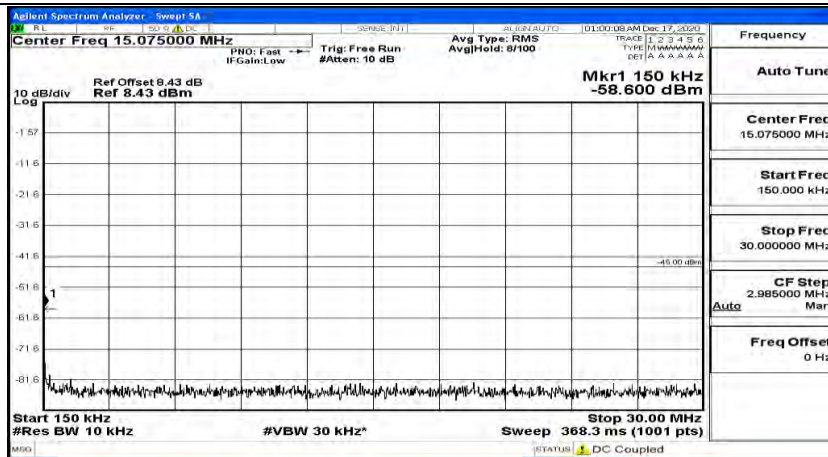
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74



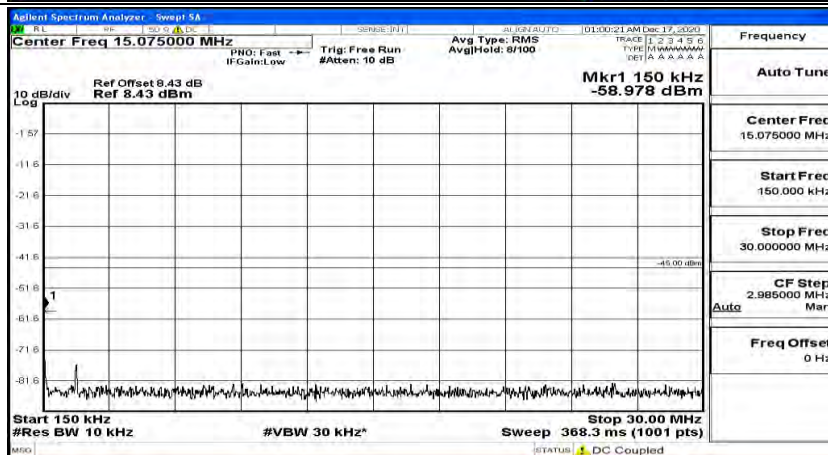
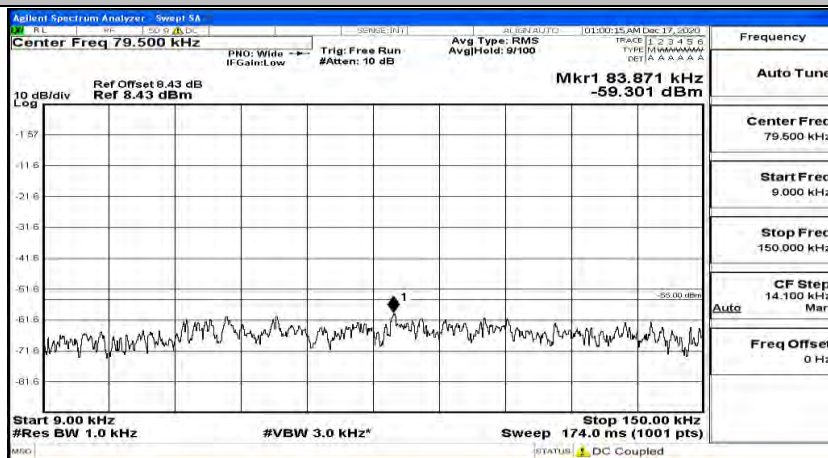


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0



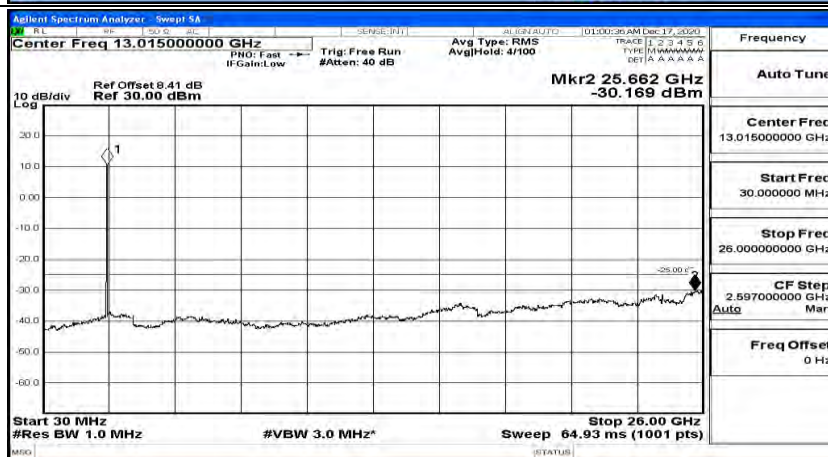
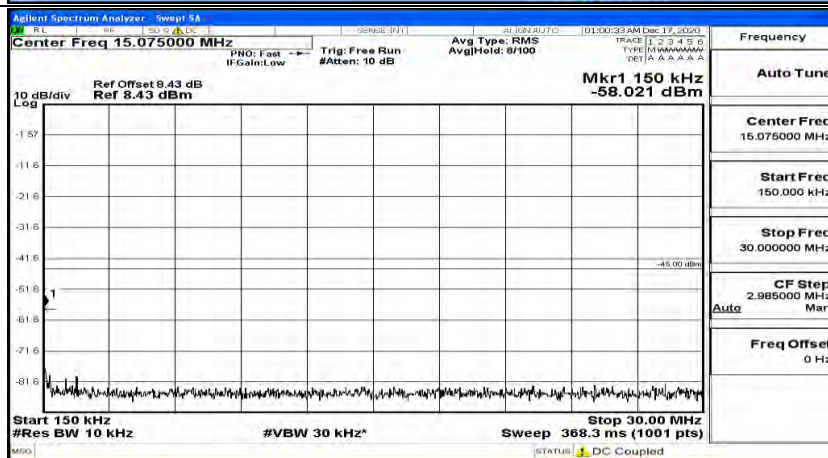
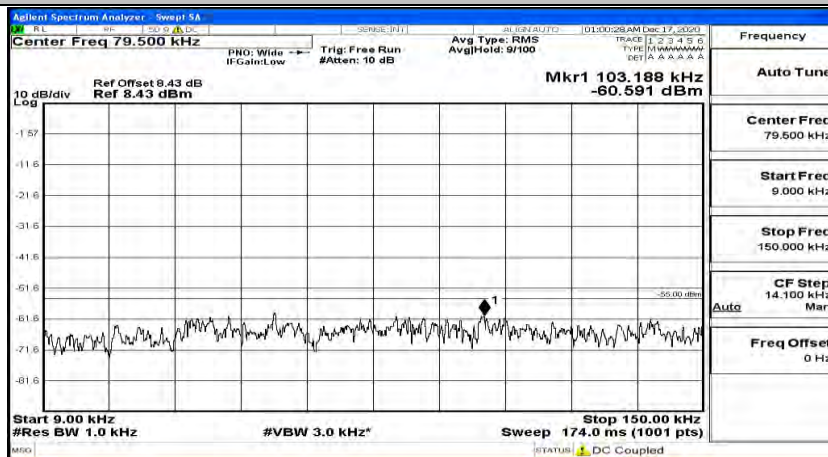


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

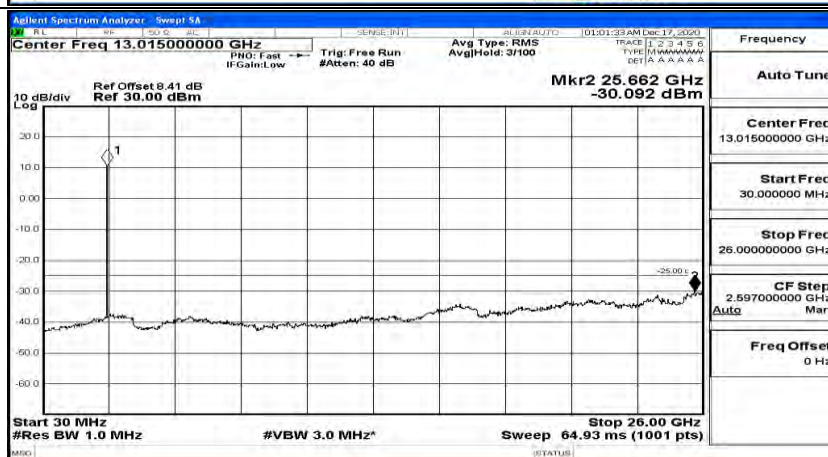
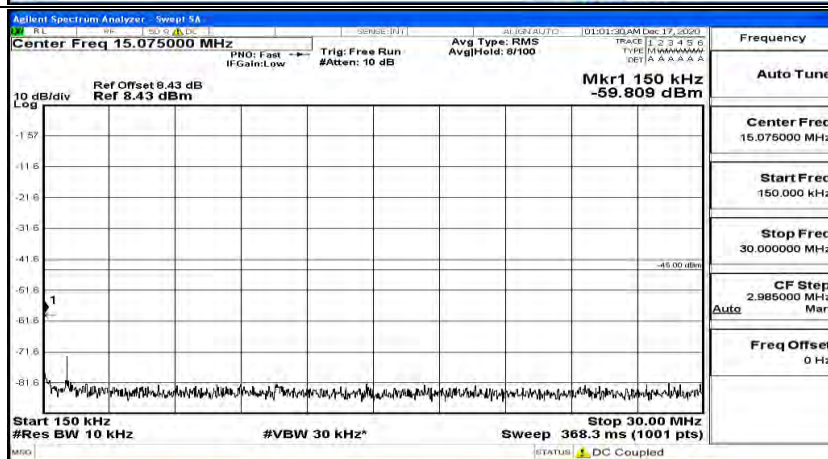
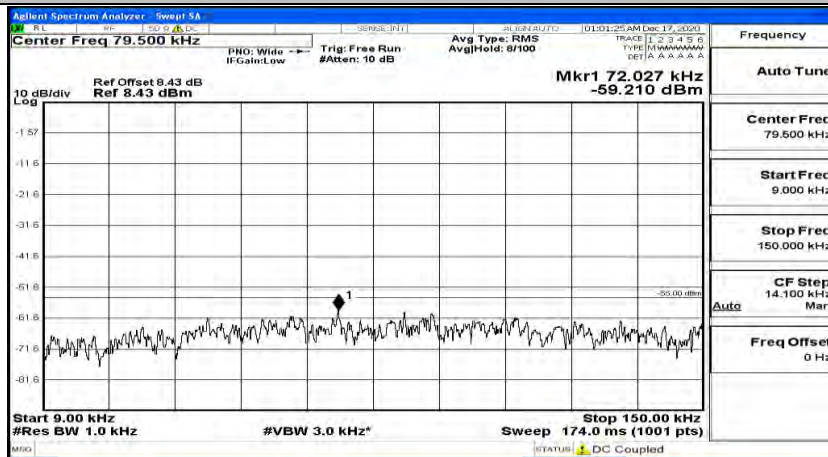




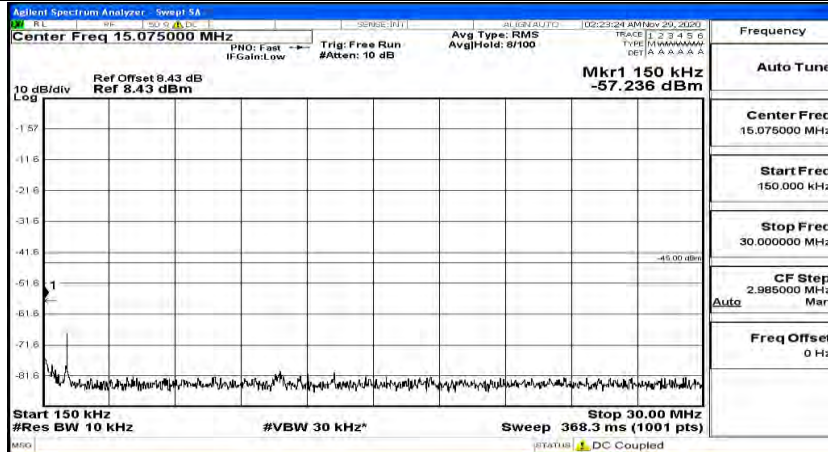
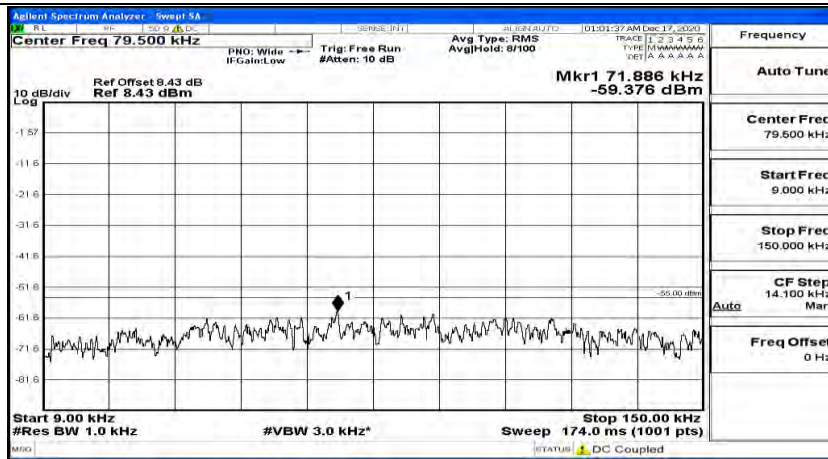
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74



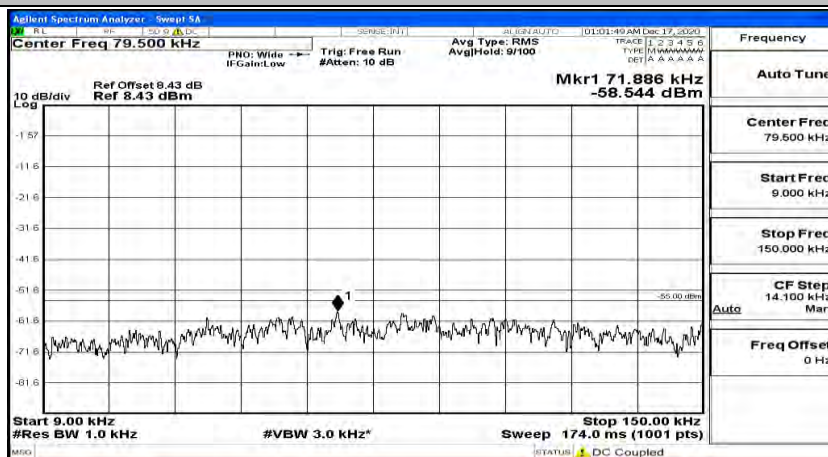
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

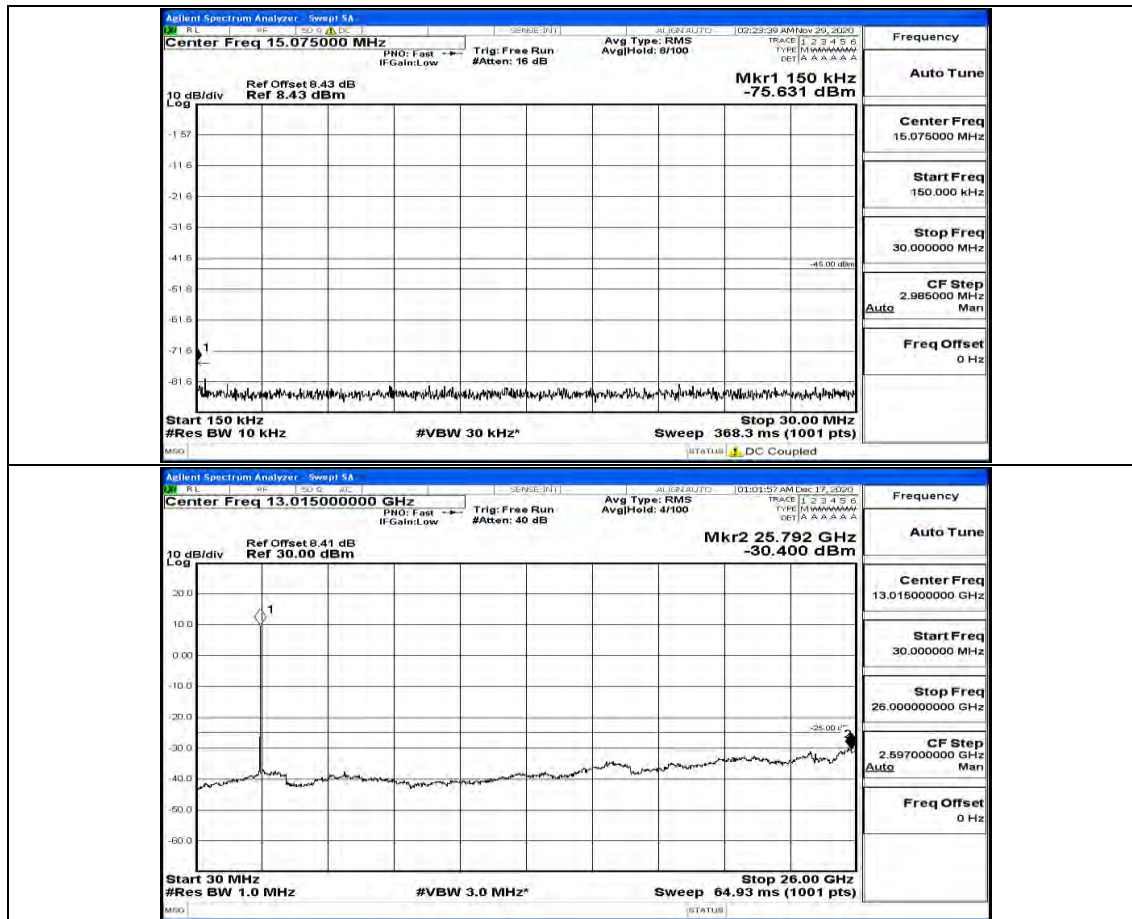


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

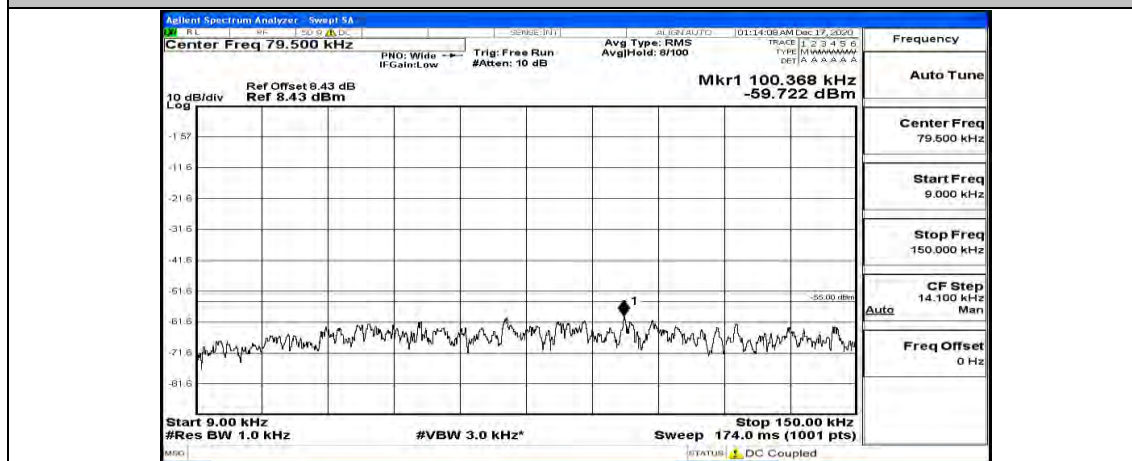


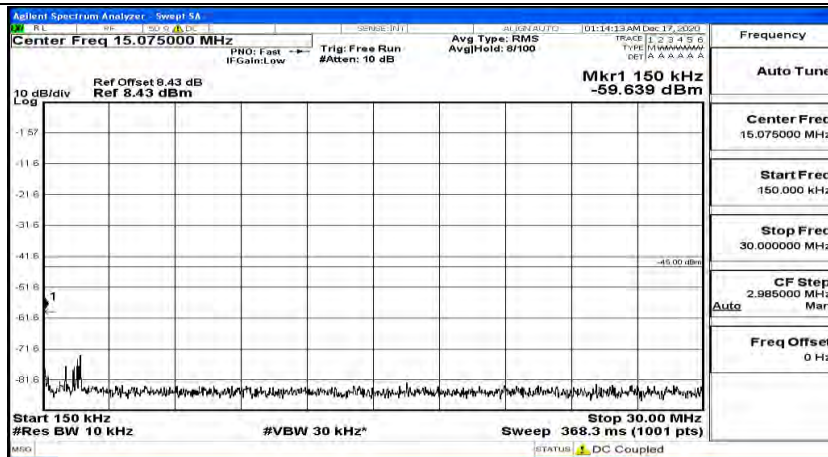
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74



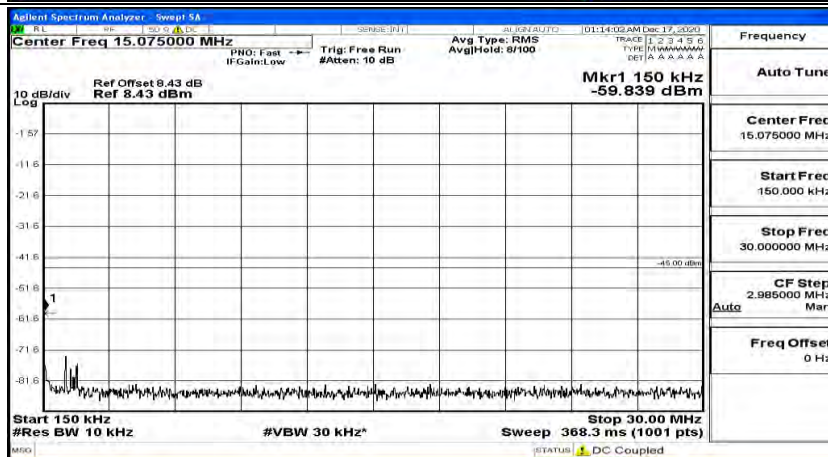
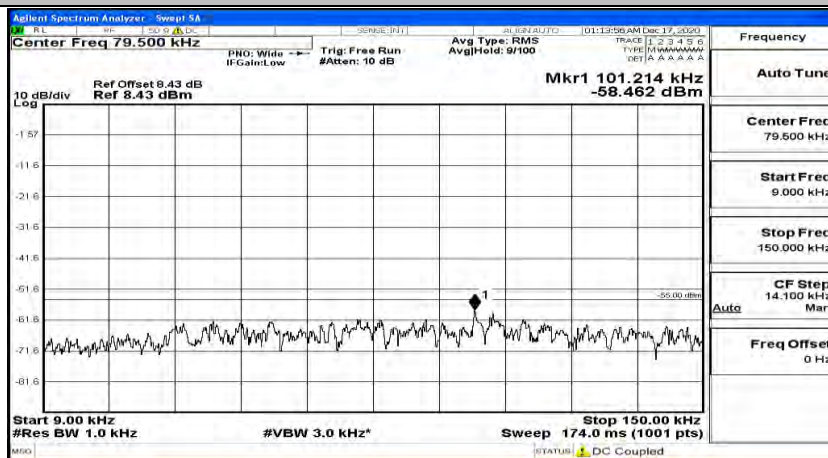


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0



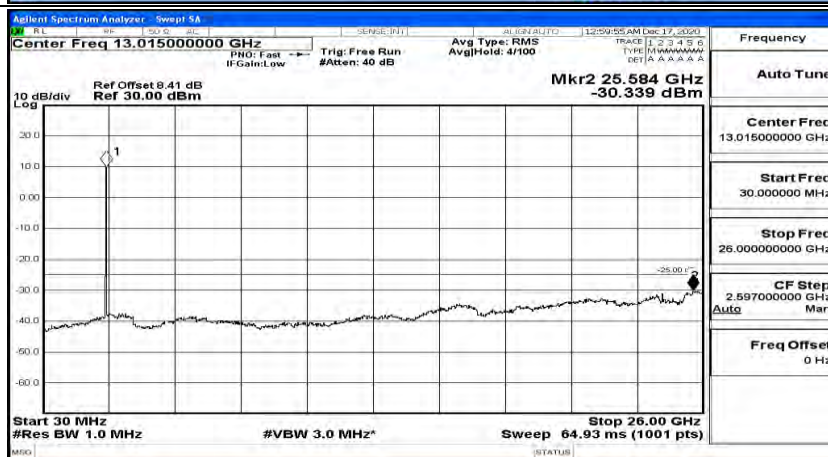
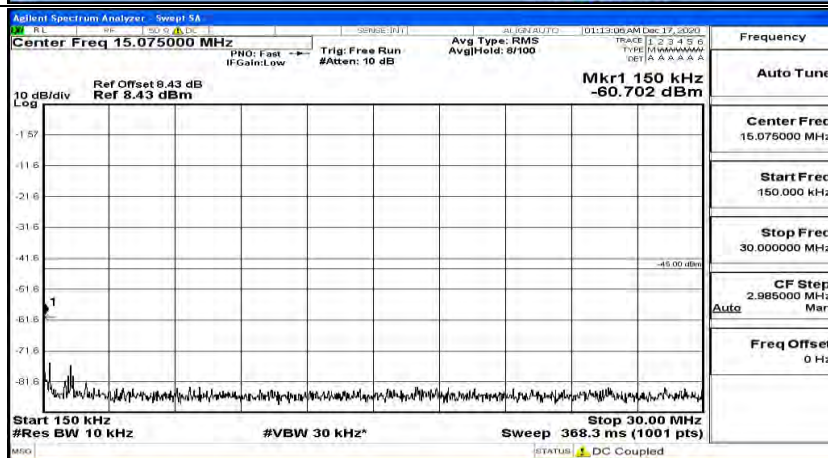
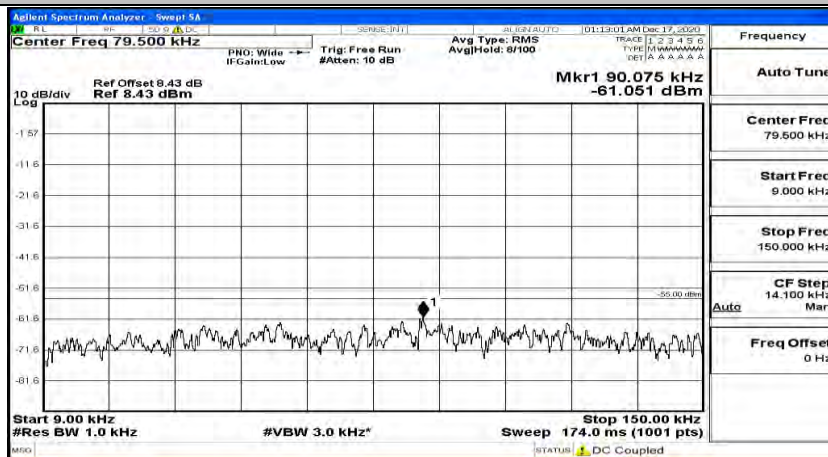


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

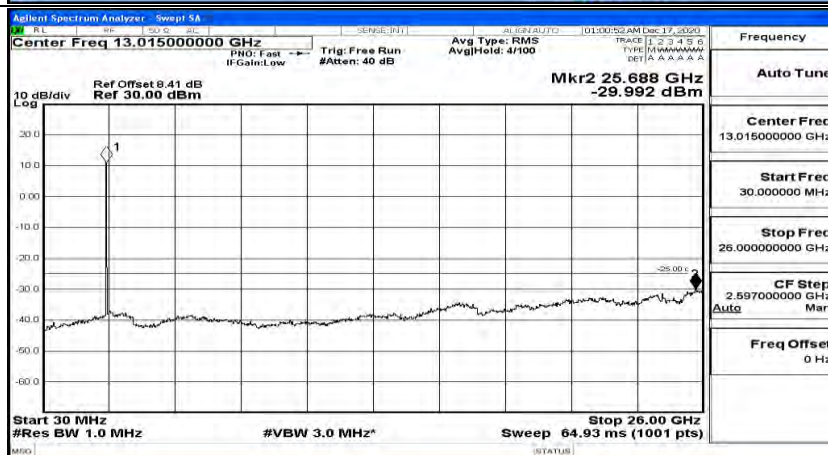
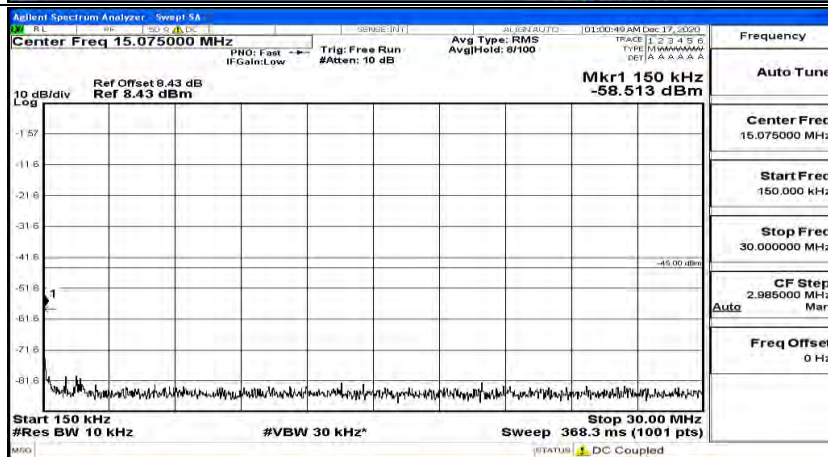
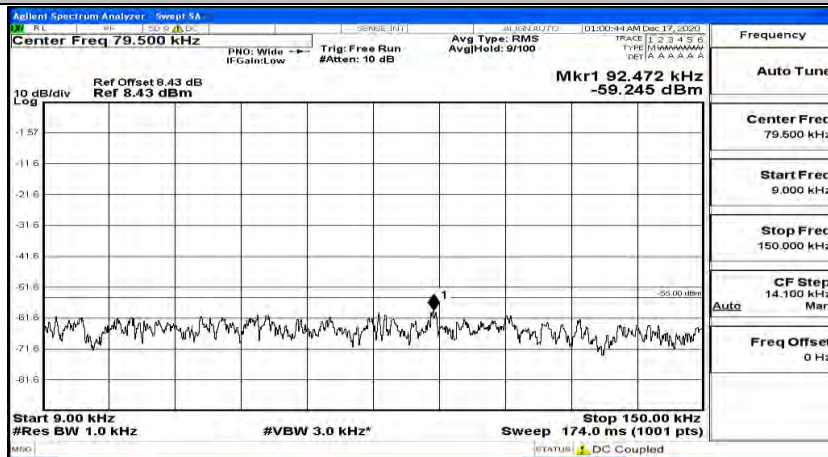




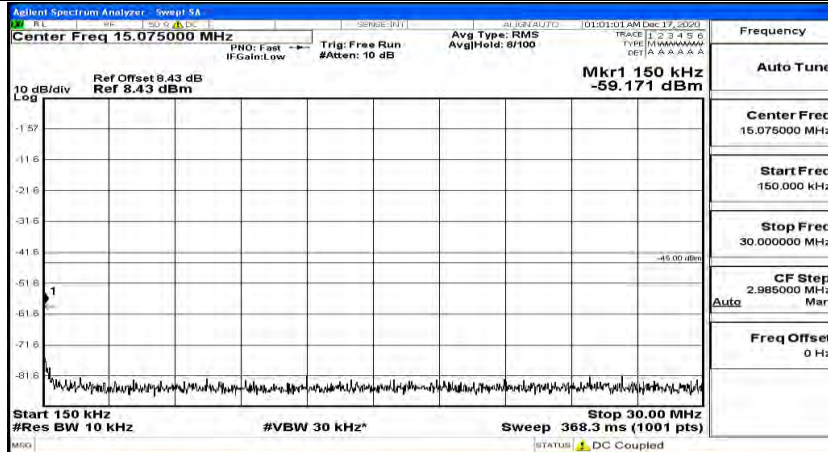
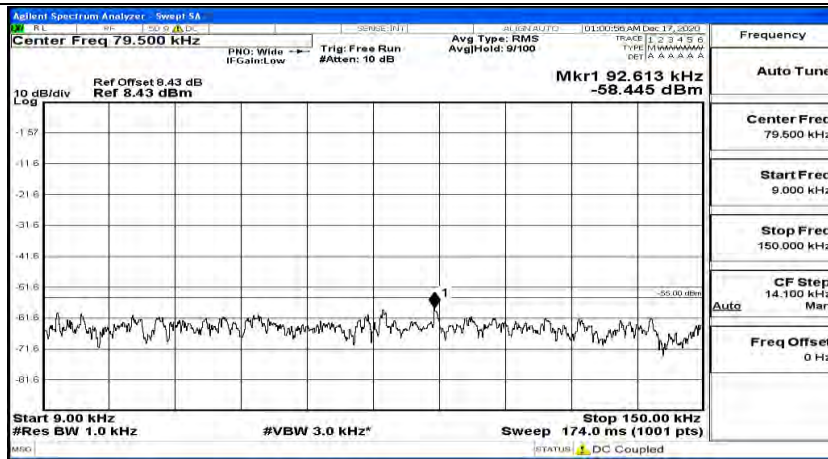
(Channel Bandwidth:15 MHz) LCH_16QAM_1RB#74



(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37



(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74

