Appendix E: Test Data for E-UTRA Band 7

Product Name: Tablet pc

Trade Mark: Touch+

Test Model: 1100AS

Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	53.1%
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	23.13	22.40	PASS
		1	12	23.27	22.61	PASS
		1	24	22.69	22.32	PASS
		12	0	22.21	21.32	PASS
		12	6	22.20	21.21	PASS
		12	13	21.99	21.19	PASS
		25	0	22.09	21.28	PASS
	MCH	1	0	23.72	22.06	PASS
		1	12	23.93	22.35	PASS
		1	24	23.69	22.12	PASS
		12	0	22.96	22.08	PASS
		12	6	23.02	22.08	PASS
		12	13	22.82	21.88	PASS
		25	0	22.95	21.97	PASS
	HCH	1	0	23.13	22.36	PASS
		1	12	23.32	22.55	PASS
		1	24	22.95	22.21	PASS
		12	0	22.77	22.01	PASS
		12	6	22.83	22.06	PASS
		12	13	22.86	21.85	PASS
		25	0	22.90	21.90	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.94	22.28	PASS
		1	24	24.04	23.42	PASS
		1	49	22.74	22.00	PASS
		25	0	22.06	20.94	PASS
		25	12	22.15	21.18	PASS
		25	25	22.02	21.02	PASS
		50	0	22.06	21.13	PASS
	MCH	1	0	23.28	22.63	PASS
		1	24	23.88	23.25	PASS
		1	49	23.23	22.58	PASS
		25	0	23.04	22.00	PASS
		25	12	23.10	22.14	PASS
		25	25	22.95	21.92	PASS
		50	0	22.99	22.08	PASS
	HCH	1	0	22.68	22.14	PASS
		1	24	23.43	22.92	PASS
		1	49	22.43	21.92	PASS
		25	0	22.71	21.79	PASS
		25	12	22.95	22.05	PASS
		25	25	22.87	21.93	PASS
		50	0	22.84	21.97	PASS

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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	23.05	22.36	PASS
		1	37	23.80	23.07	PASS
		1	74	23.06	22.59	PASS
		37	0	22.05	21.11	PASS
		37	18	22.14	21.07	PASS
		37	38	22.11	21.17	PASS
		75	0	22.15	21.24	PASS
	MCH	1	0	23.60	22.93	PASS
		1	37	23.78	23.14	PASS
		1	74	23.53	22.86	PASS
		37	0	23.01	21.90	PASS
		37	18	23.07	22.07	PASS
		37	38	22.93	21.84	PASS
		75	0	22.94	22.03	PASS
	HCH	1	0	22.36	21.76	PASS
		1	37	23.28	22.66	PASS
		1	74	22.42	21.82	PASS
		37	0	22.56	21.59	PASS
		37	18	22.74	21.86	PASS
		37	38	22.80	21.75	PASS
		75	0	22.71	21.81	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	22.76	21.97	PASS
		1	49	23.97	22.76	PASS
		1	99	23.08	21.79	PASS
		50	0	22.23	21.27	PASS
		50	25	22.27	21.45	PASS
		50	50	22.43	21.33	PASS
		100	0	22.29	21.36	PASS
	MCH	1	0	23.55	22.78	PASS
		1	49	23.82	23.06	PASS
		1	99	23.39	22.60	PASS
		50	0	22.96	21.90	PASS
		50	25	23.11	22.16	PASS
		50	50	23.04	22.14	PASS
		100	0	23.00	21.96	PASS
	HCH	1	0	22.54	21.92	PASS
		1	49	23.41	22.82	PASS
		1	99	22.16	21.55	PASS
		50	0	22.76	21.87	PASS
		50	25	22.82	21.94	PASS
		50	50	22.85	21.82	PASS
		100	0	22.85	21.83	PASS

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E.2 Peak-to-Average Ratio

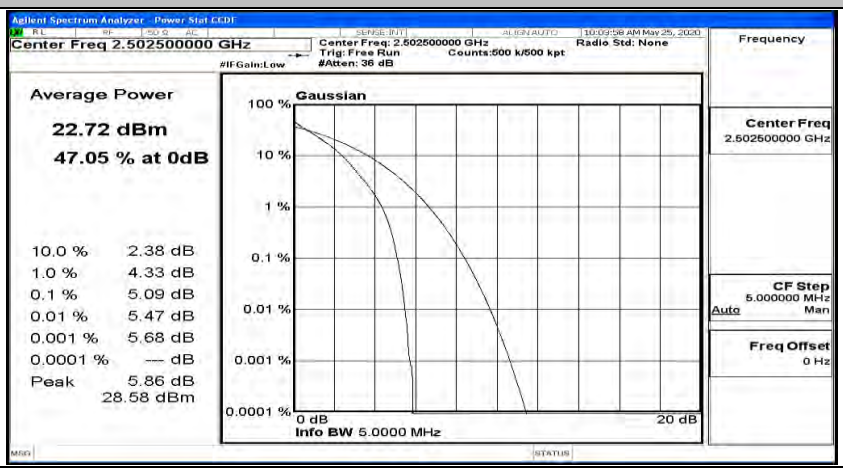
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.09	<13	PASS
	MCH	5.03	<13	PASS
	HCH	4.28	<13	PASS
16QAM	LCH	5.9	<13	PASS
	MCH	5.83	<13	PASS
	HCH	5.16	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	5.02	<13	PASS
	HCH	4.63	<13	PASS
16QAM	LCH	5.78	<13	PASS
	MCH	5.81	<13	PASS
	HCH	5.43	<13	PASS

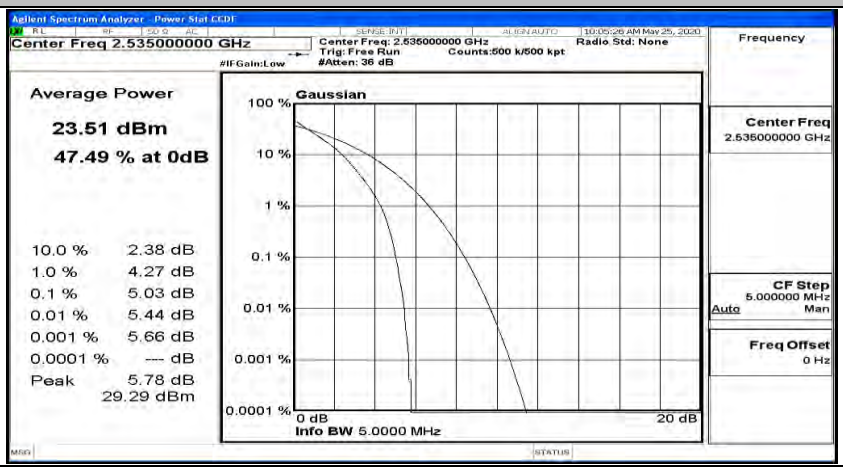
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.91	<13	PASS
	MCH	4.99	<13	PASS
	HCH	4.94	<13	PASS
16QAM	LCH	6.1	<13	PASS
	MCH	6.2	<13	PASS
	HCH	6.09	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.72	<13	PASS
	MCH	5.73	<13	PASS
	HCH	5.77	<13	PASS
16QAM	LCH	6.63	<13	PASS
	MCH	6.77	<13	PASS
	HCH	6.67	<13	PASS

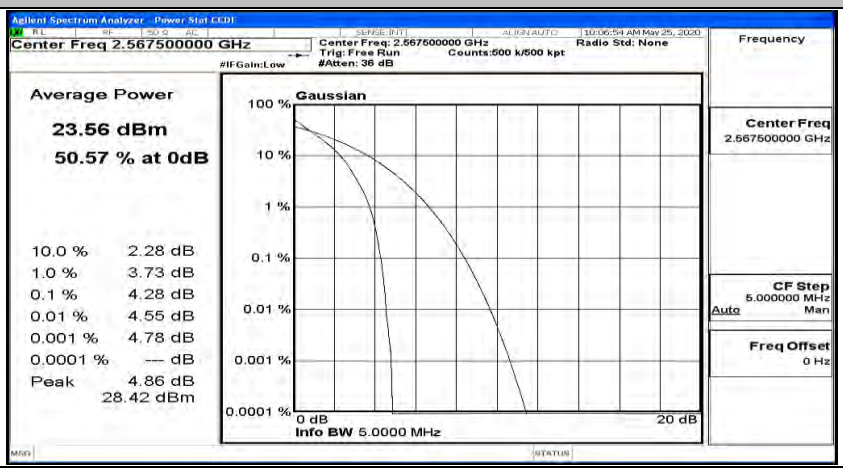
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



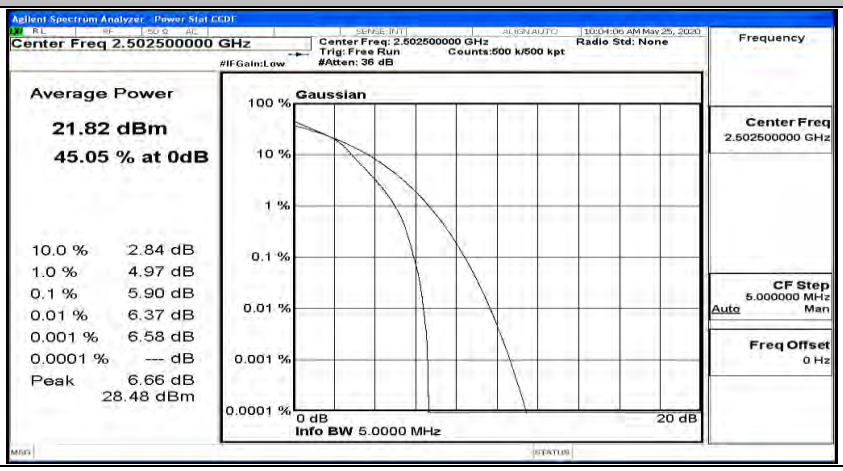
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



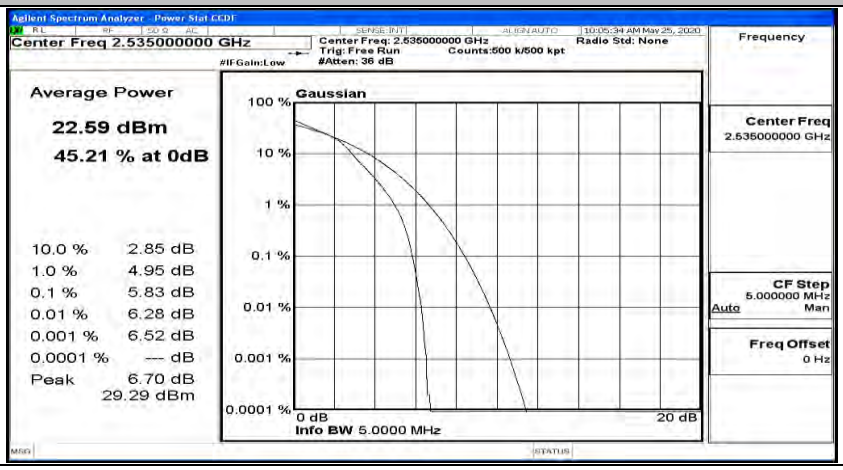
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



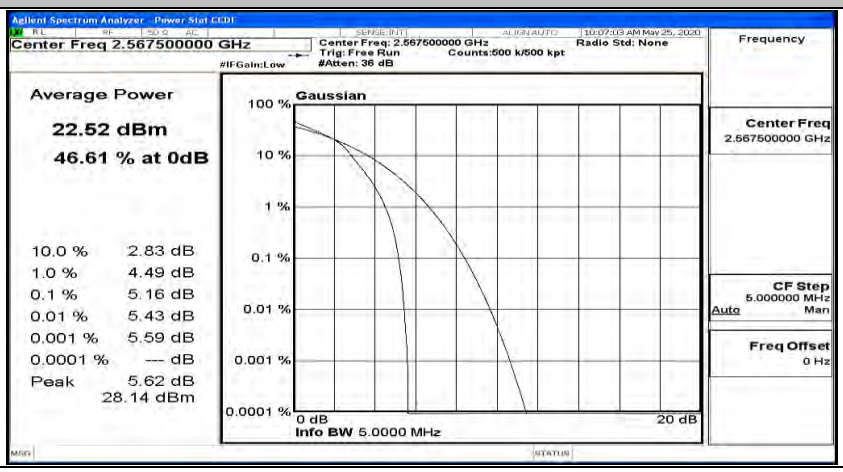
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



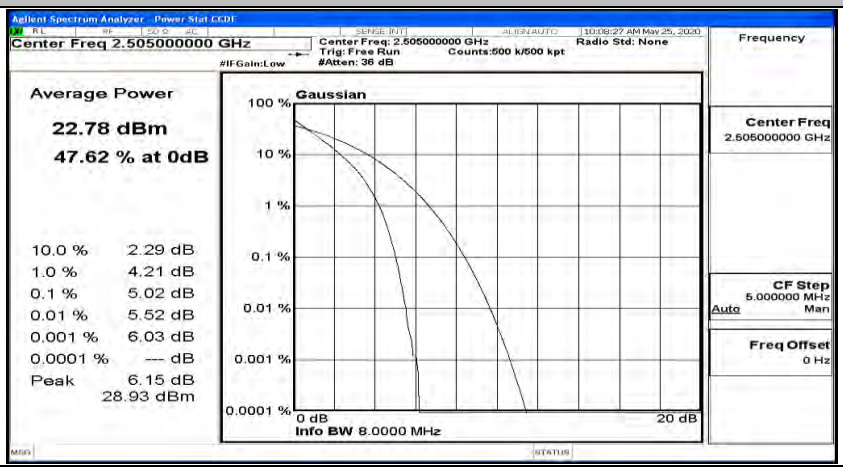
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



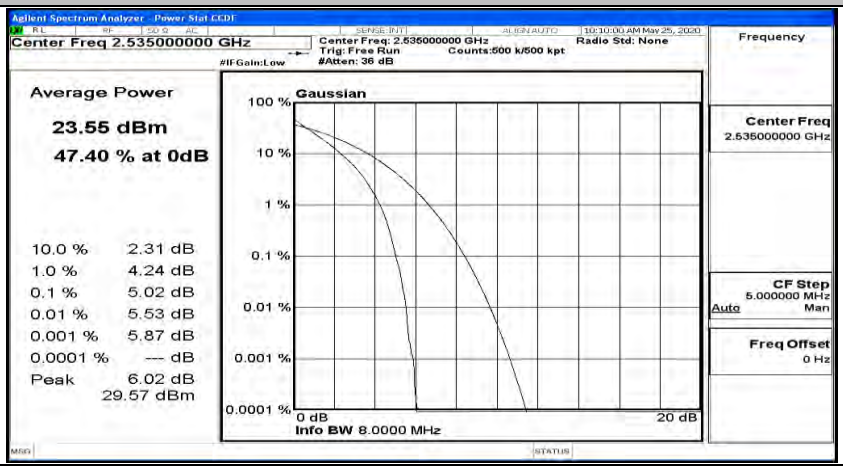
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



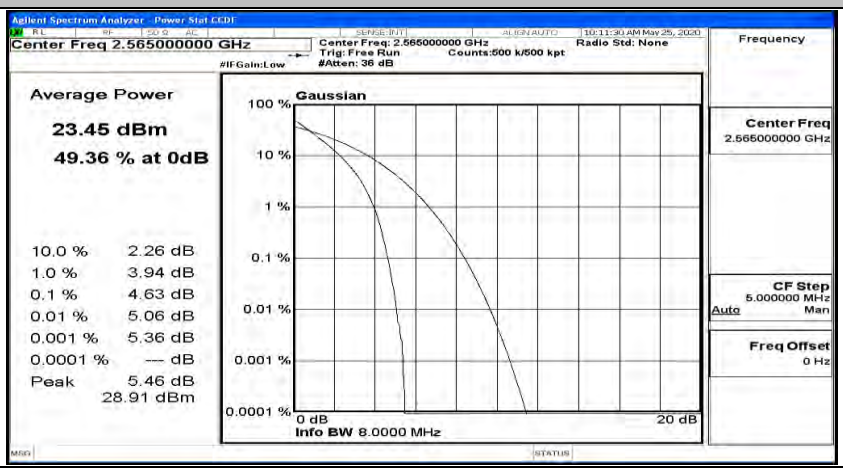
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



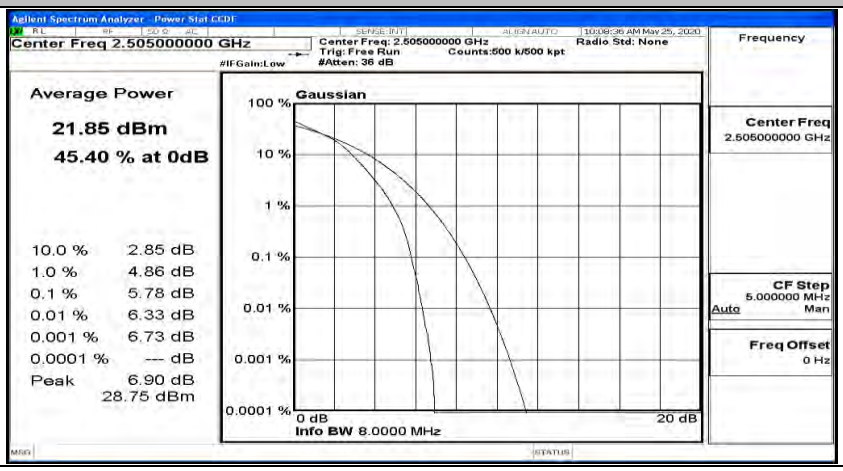
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



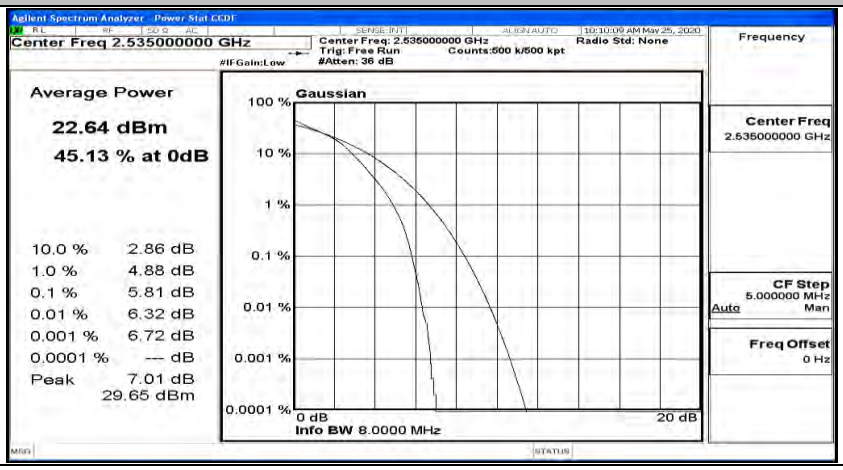
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



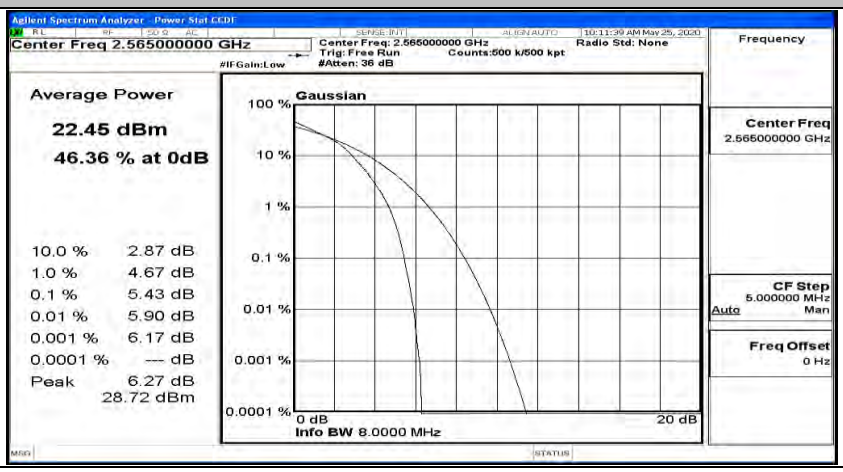
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



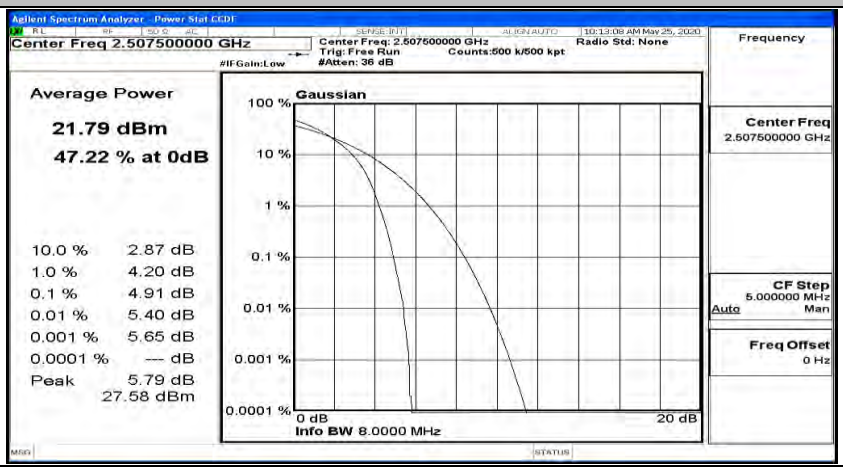
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



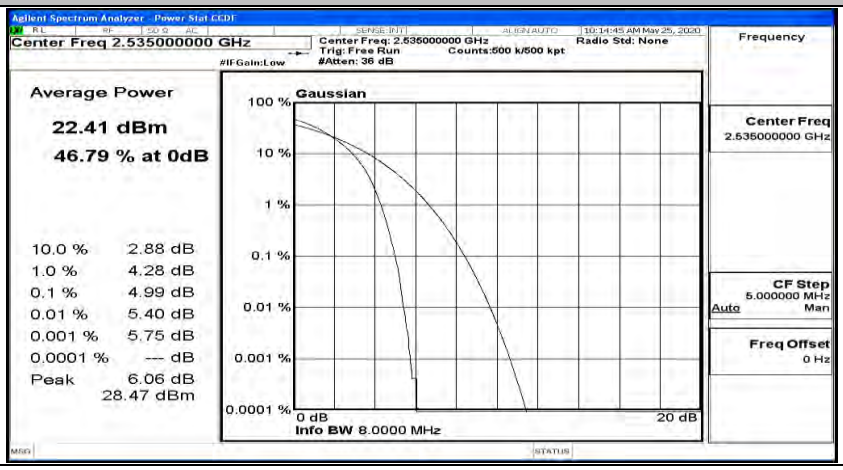
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



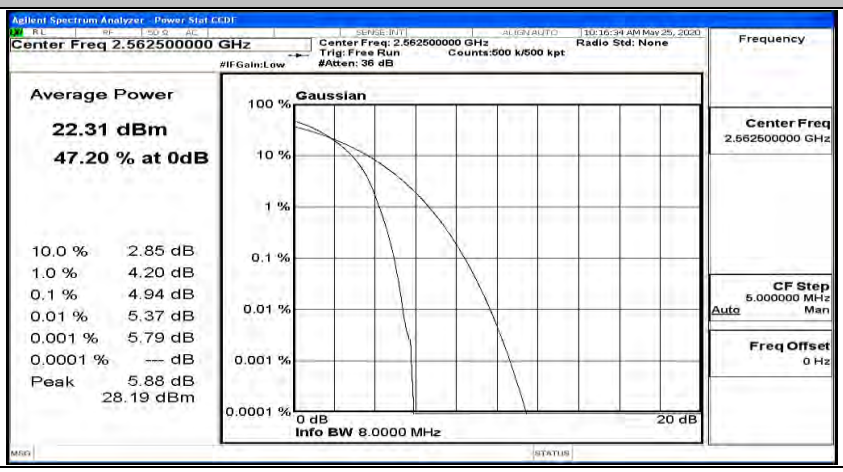
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



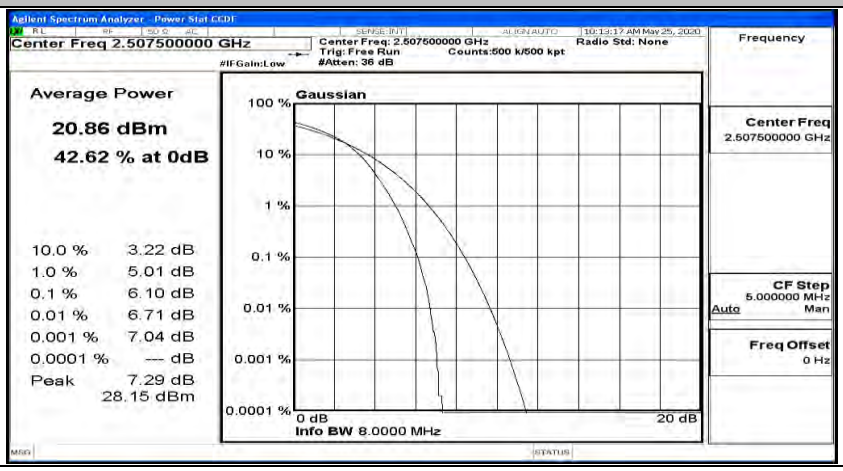
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



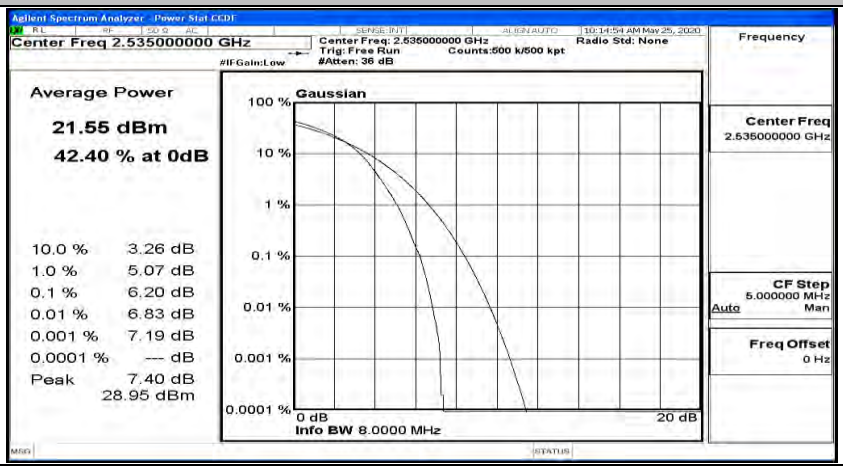
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



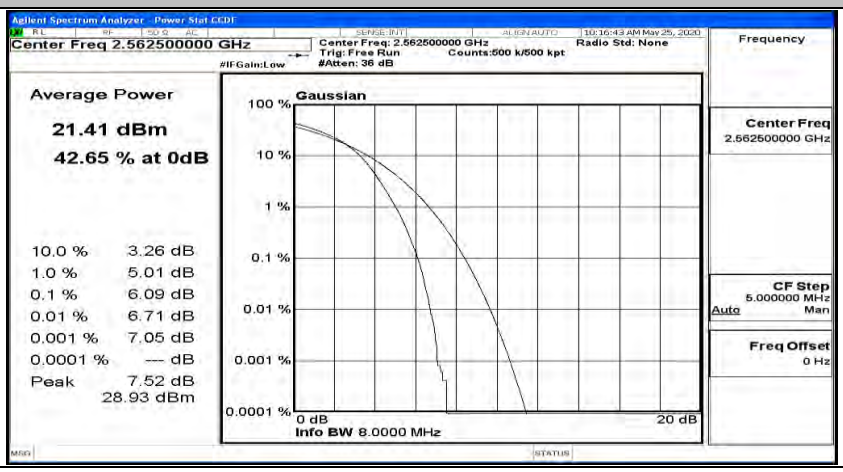
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



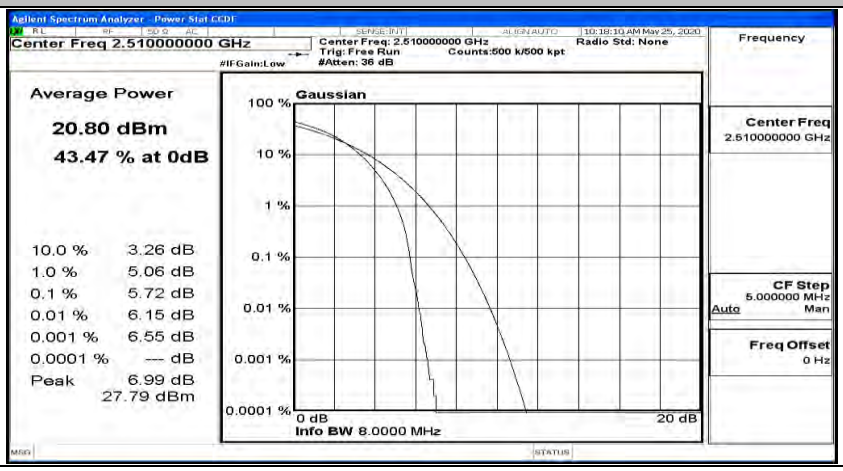
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



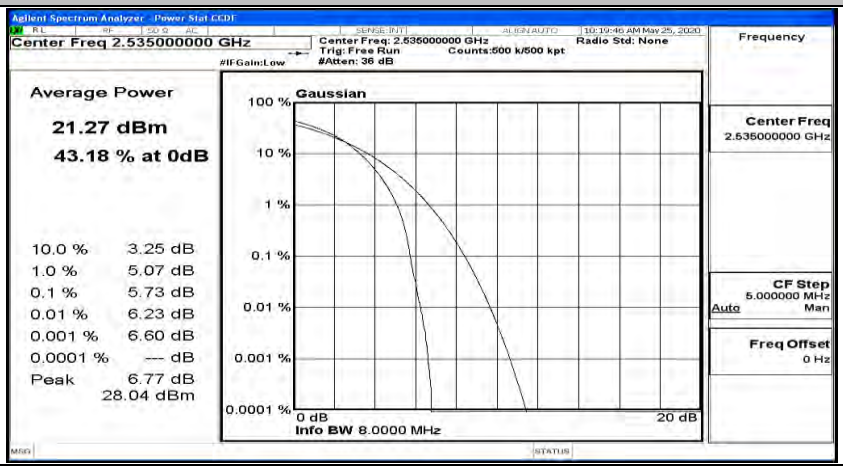
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



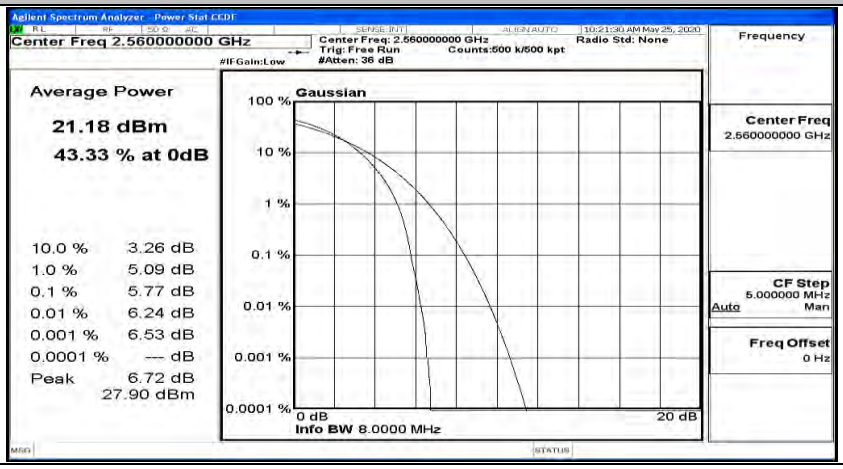
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



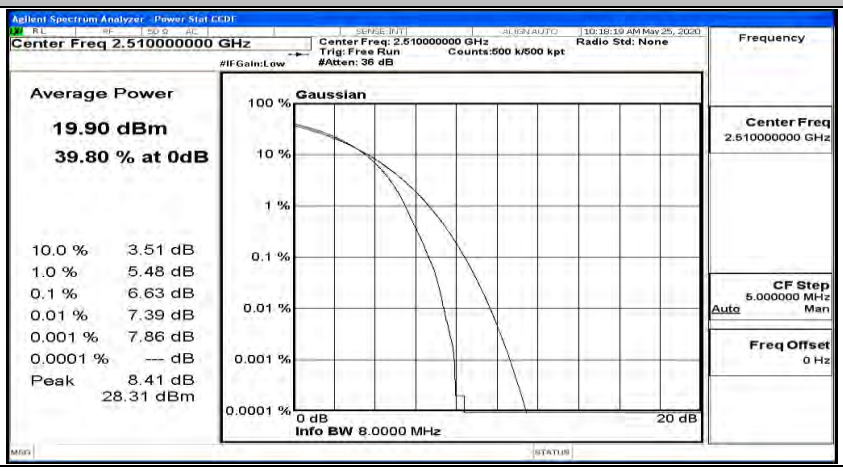
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



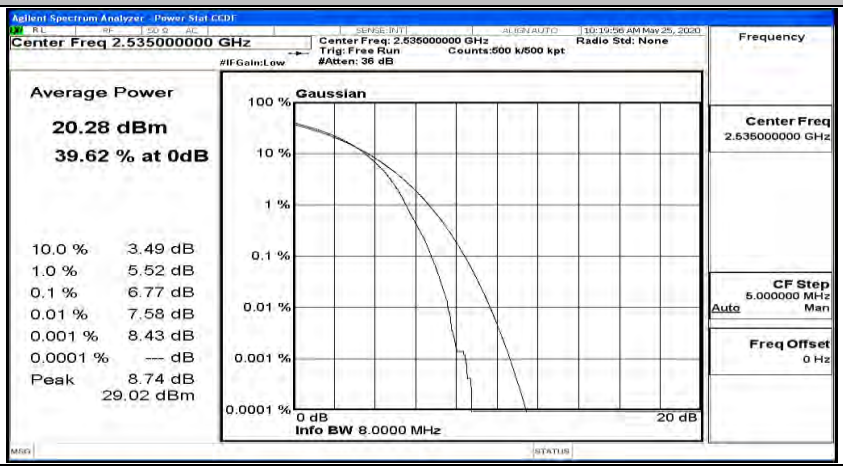
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



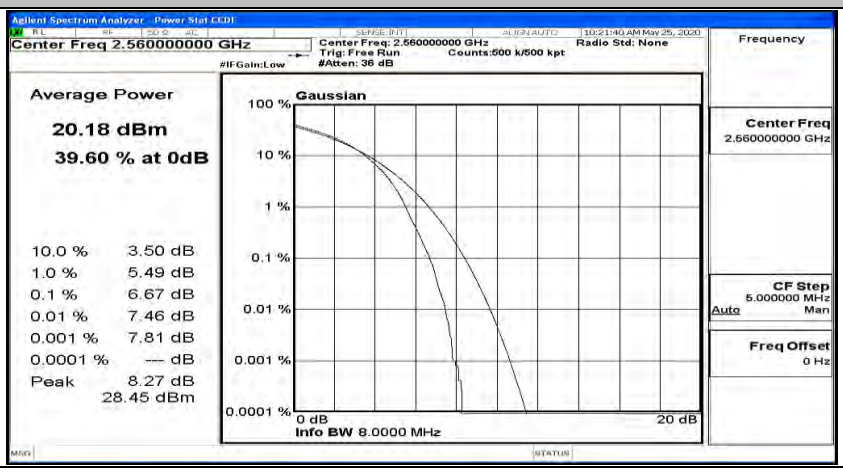
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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

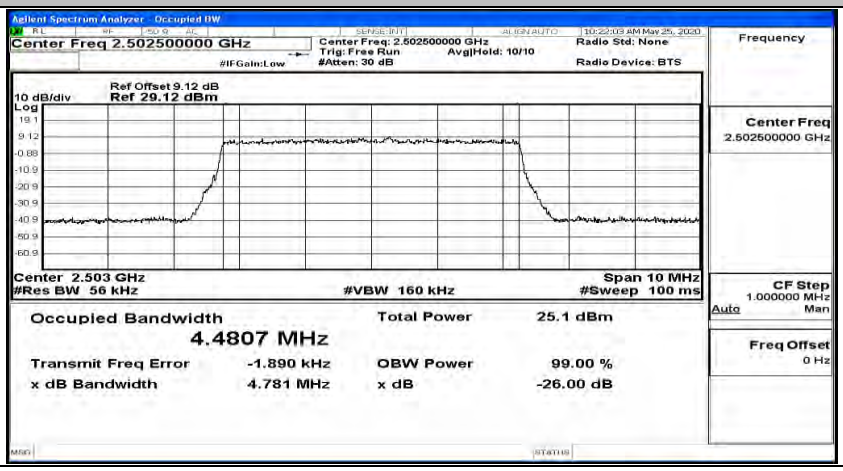
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4807	4.781	PASS
	MCH	4.4673	4.778	PASS
	HCH	4.4725	4.841	PASS
16QAM	LCH	4.4591	4.823	PASS
	MCH	4.4793	4.779	PASS
	HCH	4.4793	4.815	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9207	9.412	PASS
	MCH	8.9351	9.499	PASS
	HCH	8.9220	9.497	PASS
16QAM	LCH	8.9204	9.428	PASS
	MCH	8.9249	9.416	PASS
	HCH	8.9322	9.449	PASS

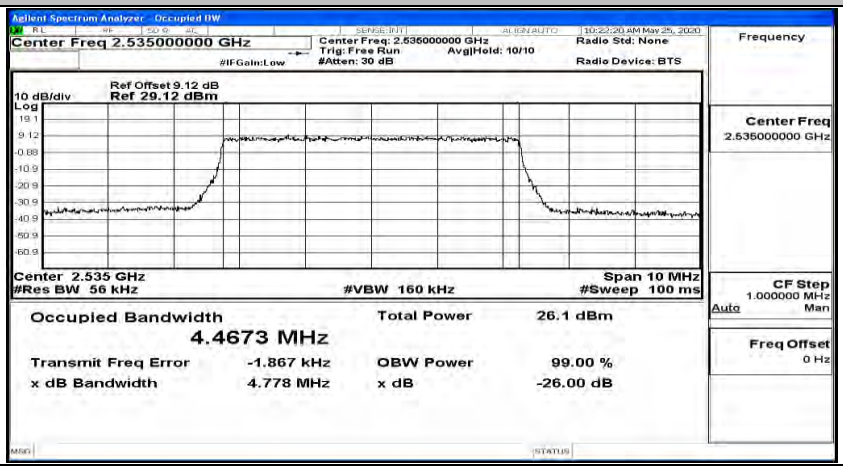
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.369	13.97	PASS
	MCH	13.392	14.13	PASS
	HCH	13.368	13.95	PASS
16QAM	LCH	13.370	13.98	PASS
	MCH	13.388	14.00	PASS
	HCH	13.366	13.97	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.800	18.55	PASS
	MCH	17.861	18.65	PASS
	HCH	17.823	18.57	PASS
16QAM	LCH	17.820	18.54	PASS
	MCH	17.844	18.62	PASS
	HCH	17.818	18.55	PASS

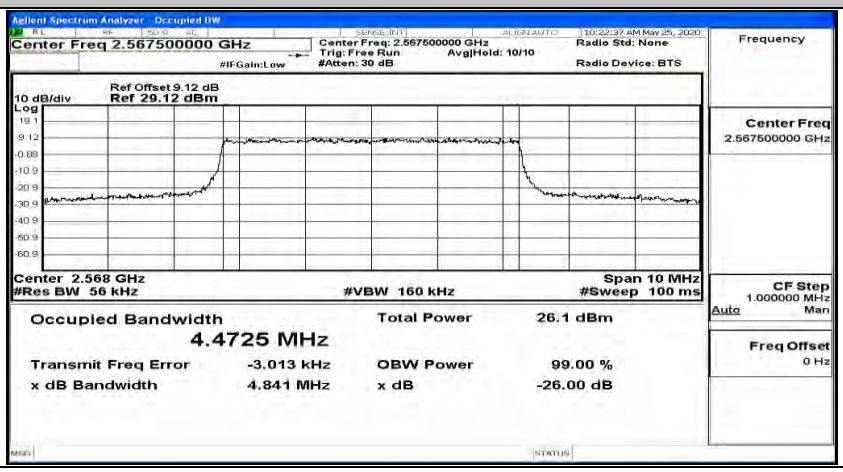
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



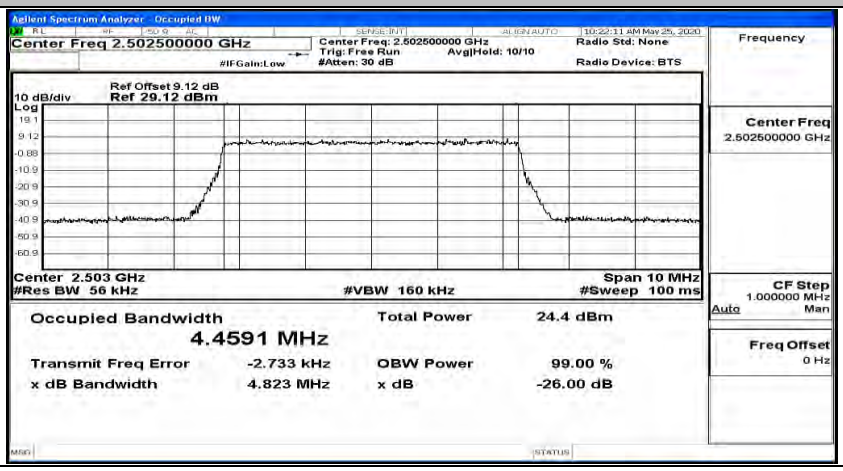
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



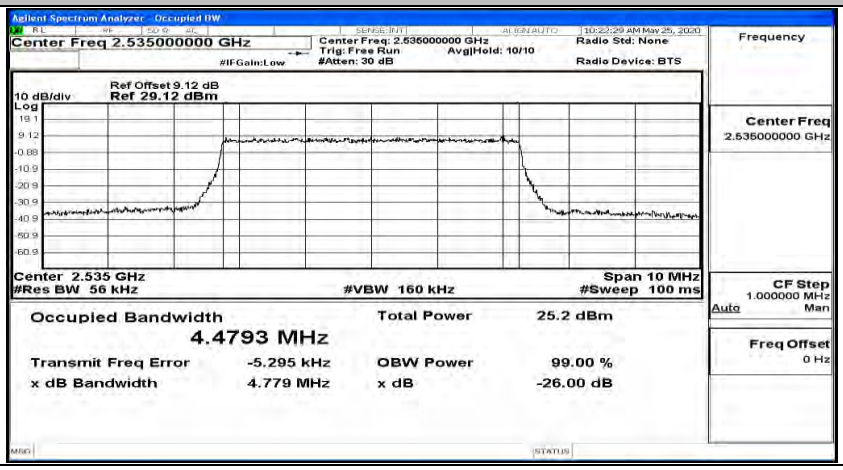
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



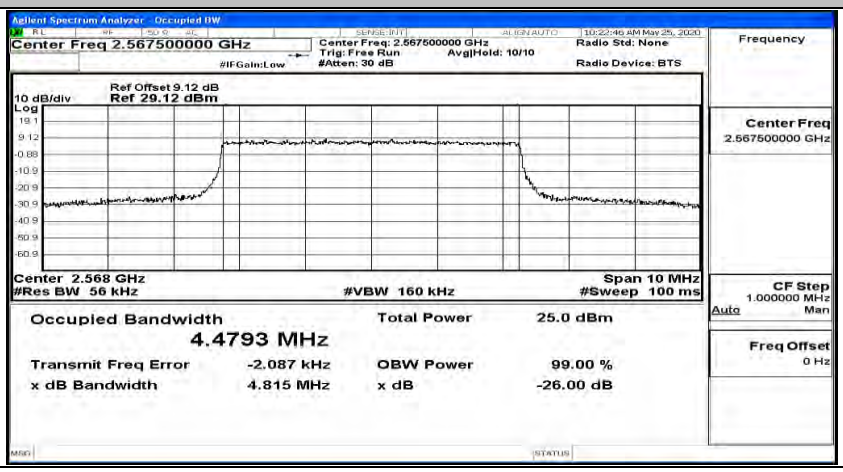
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



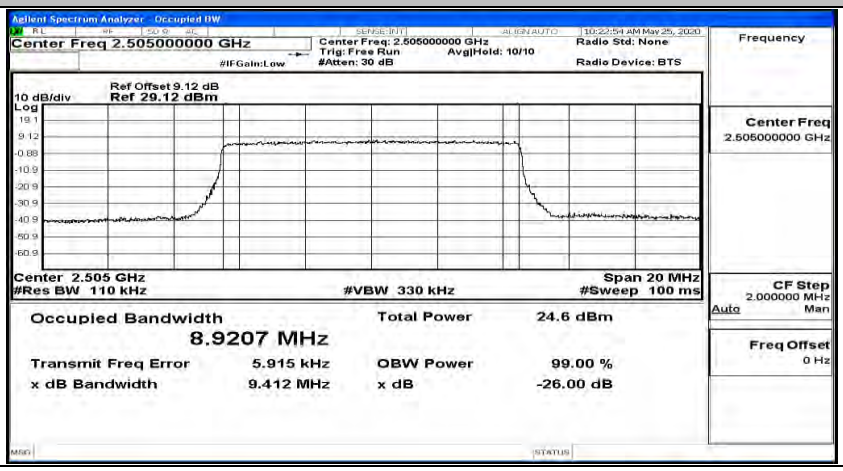
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



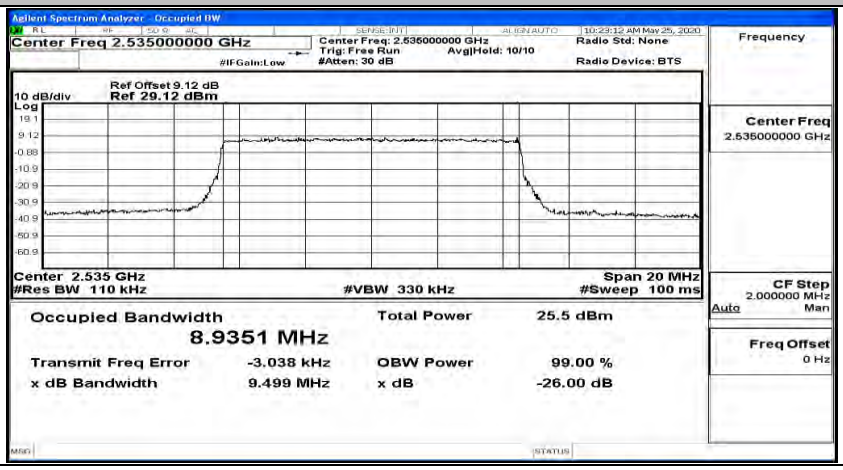
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



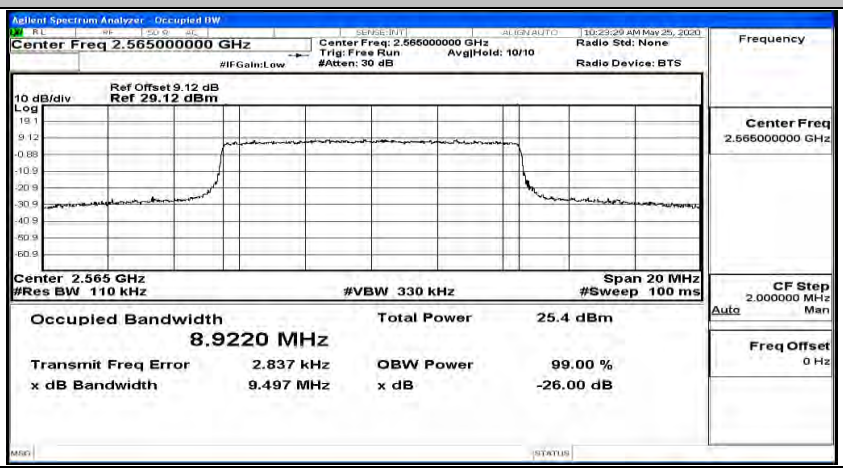
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



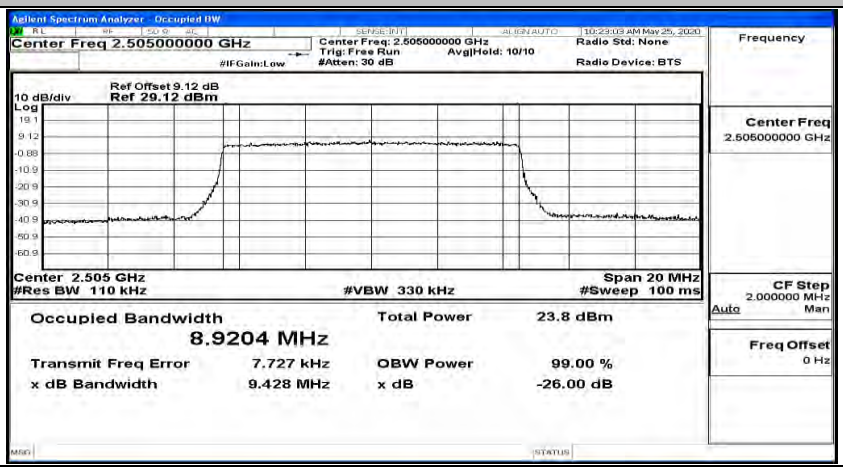
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



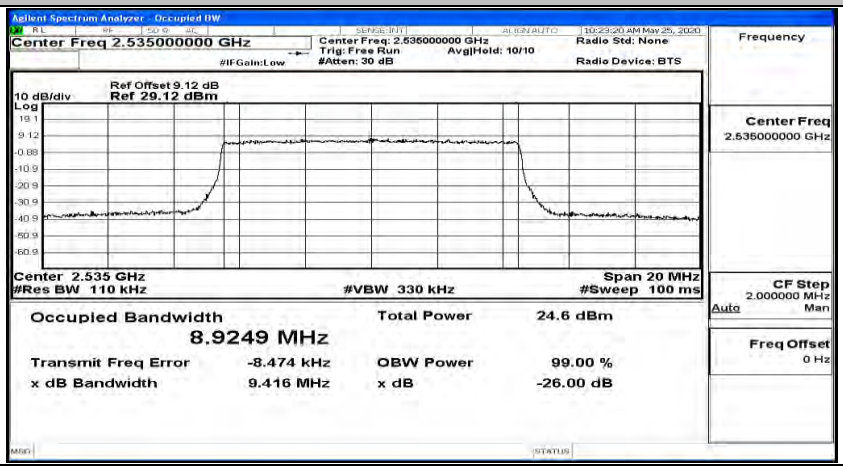
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



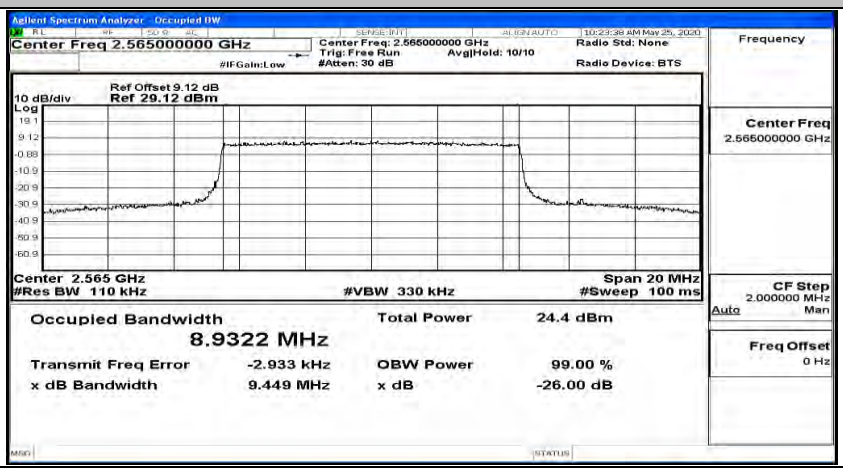
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



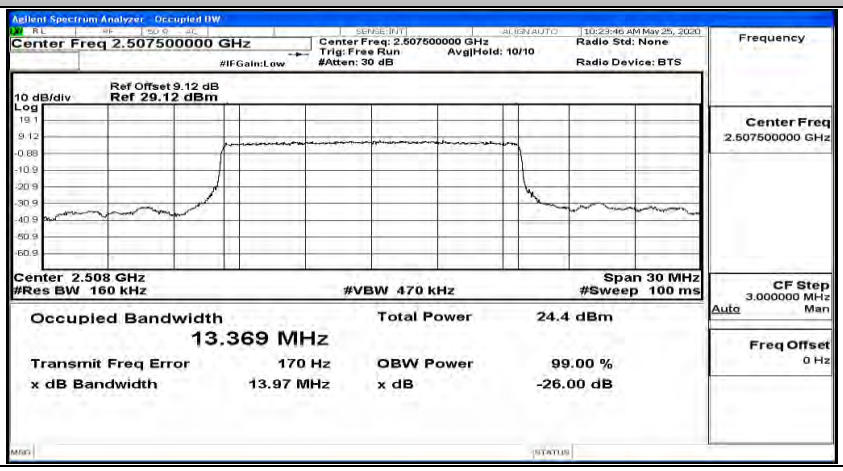
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



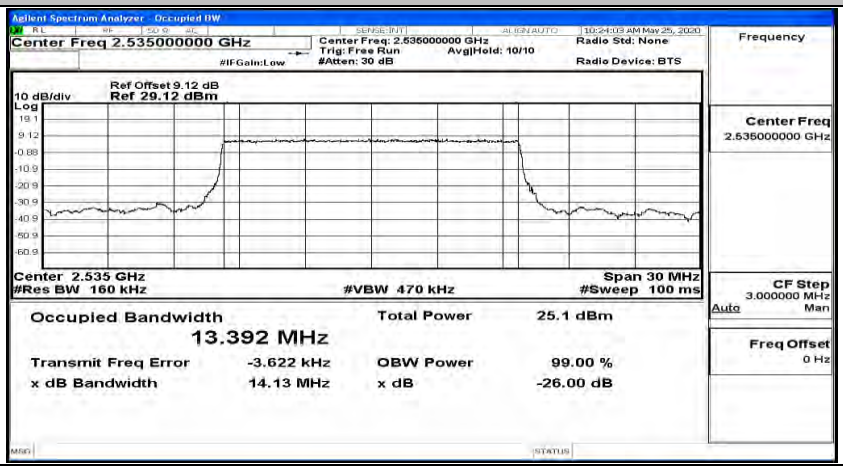
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



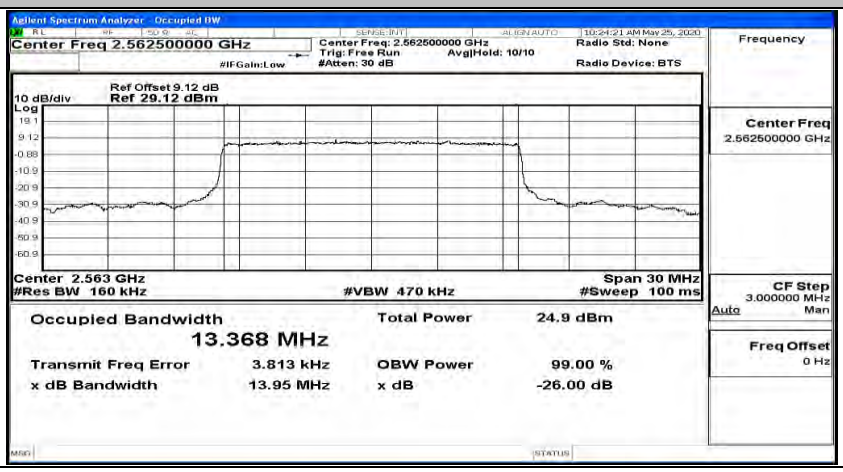
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



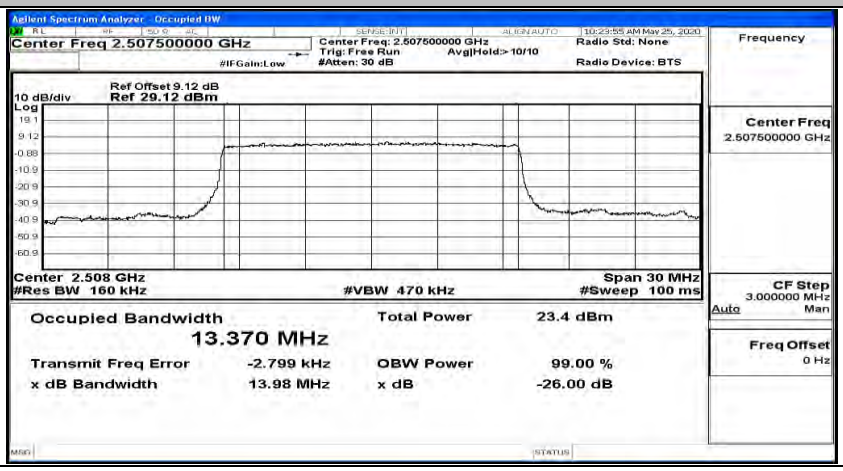
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



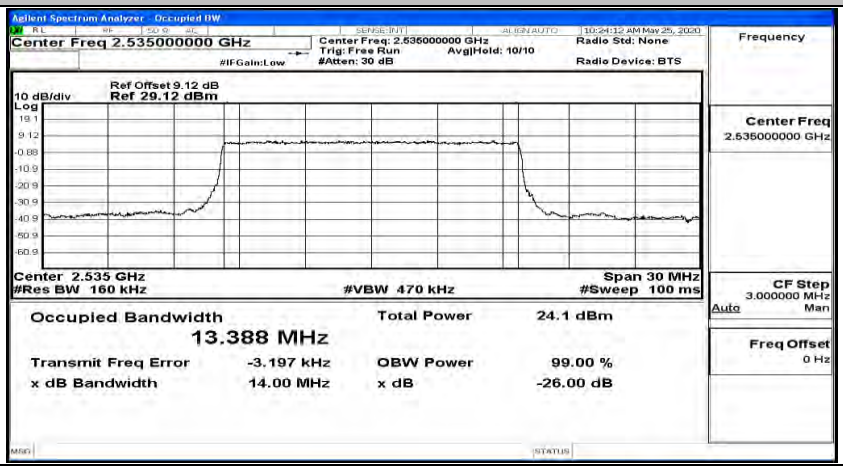
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



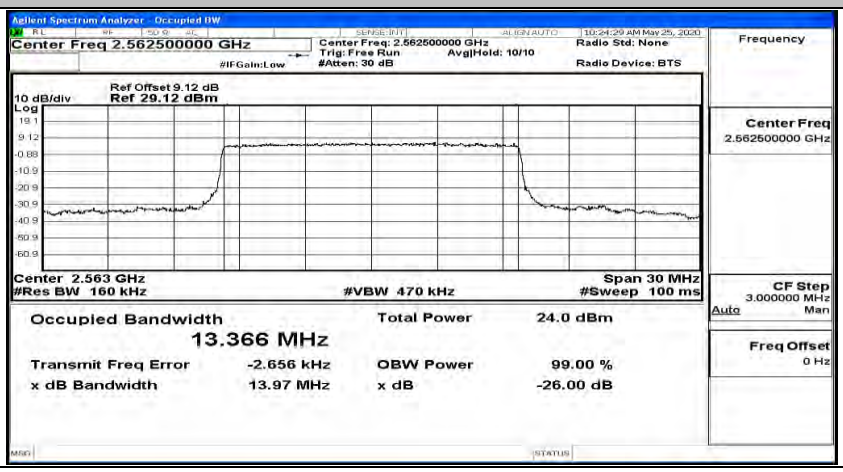
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



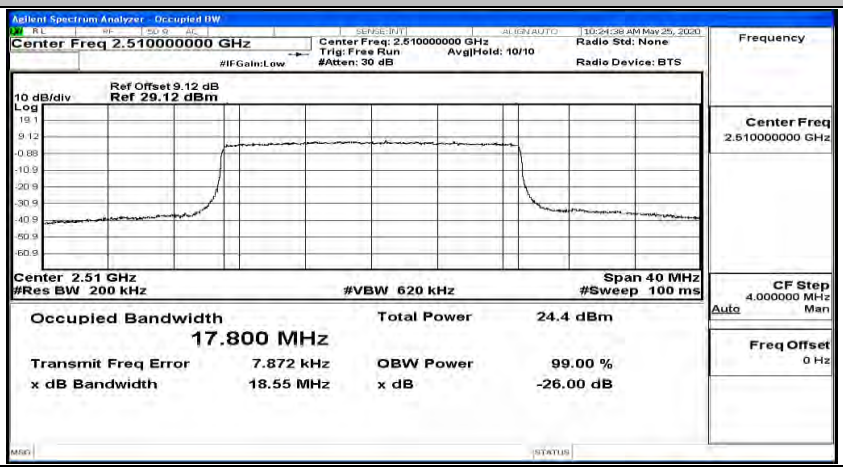
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



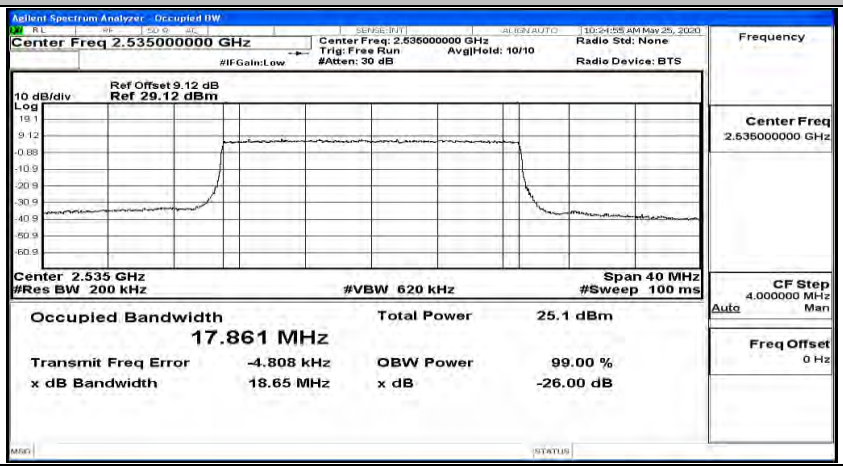
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



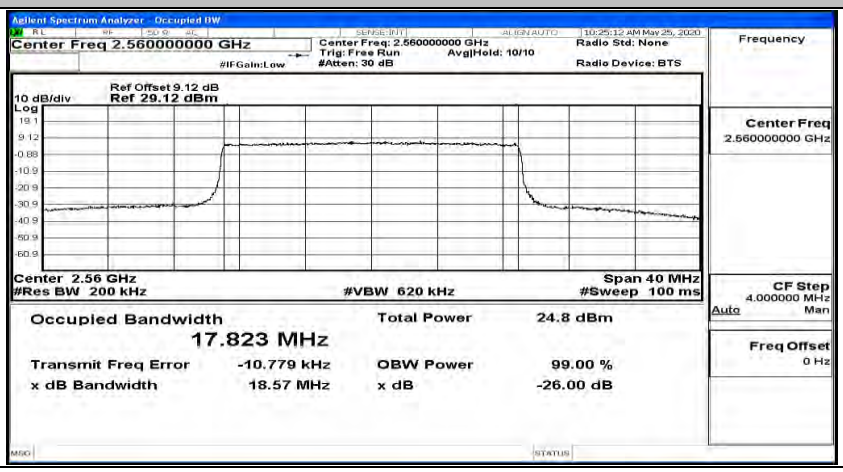
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



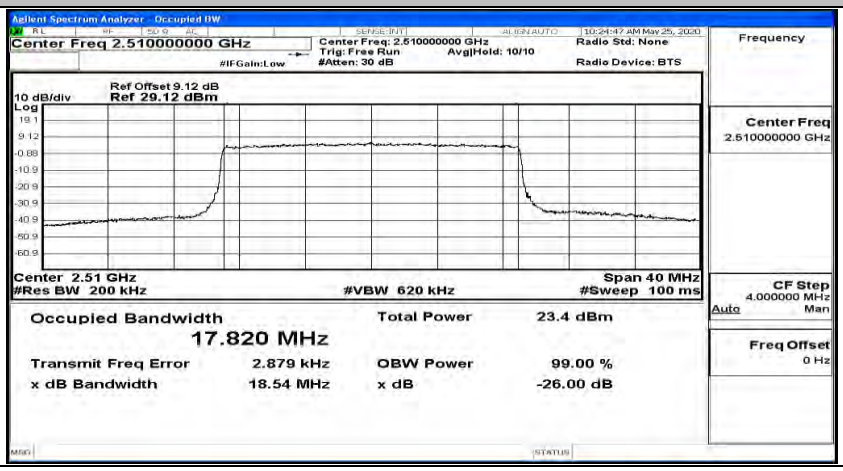
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



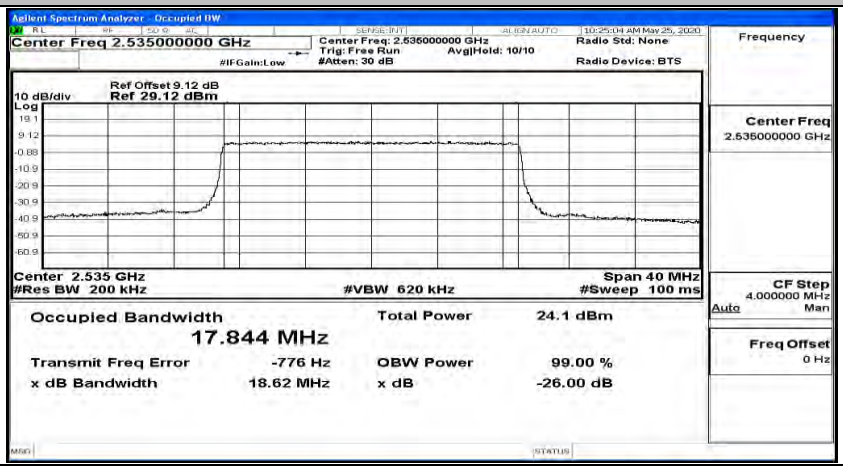
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



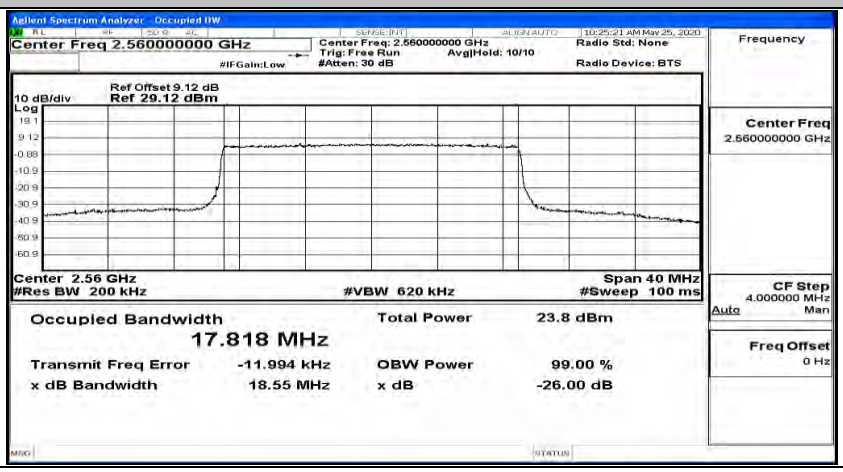
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



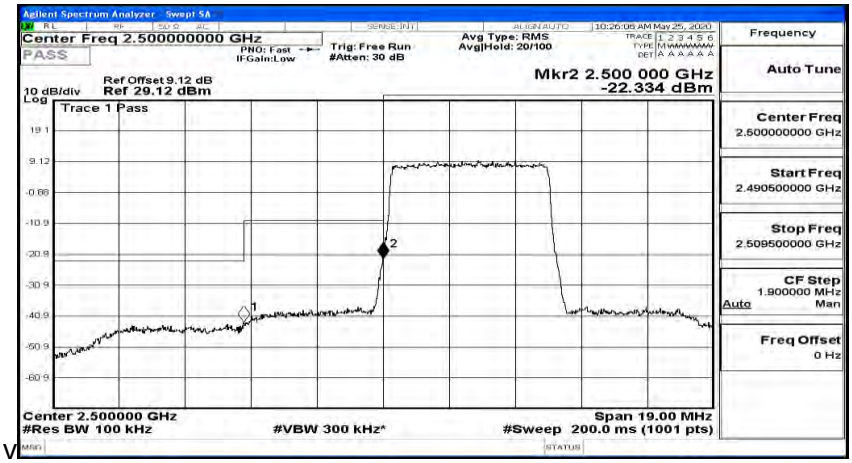
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



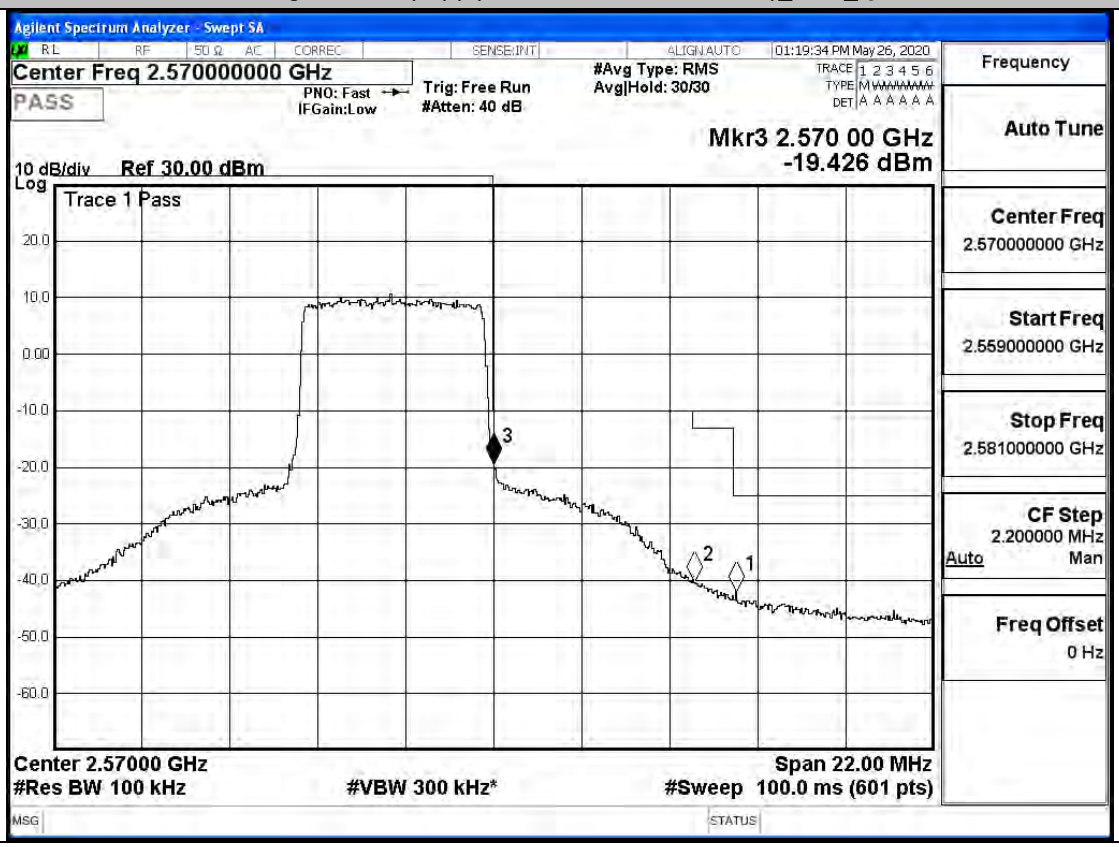
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



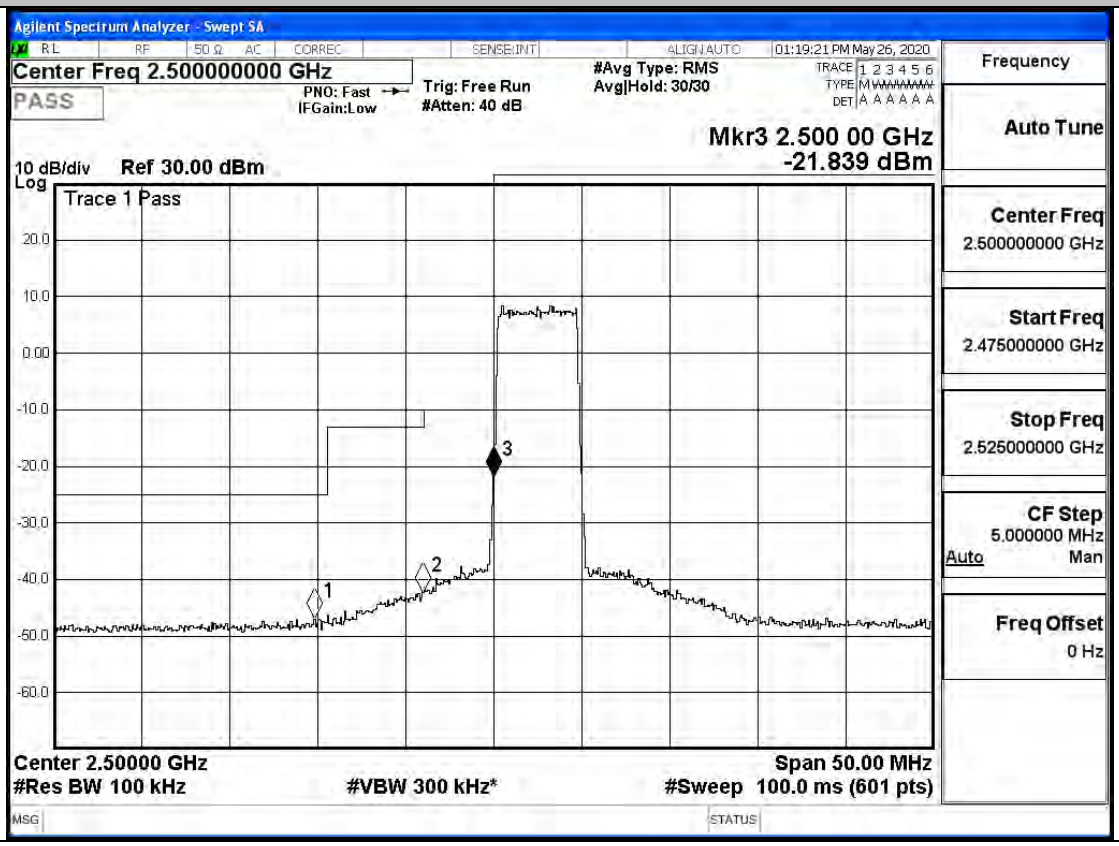
E.4 Band Edge

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


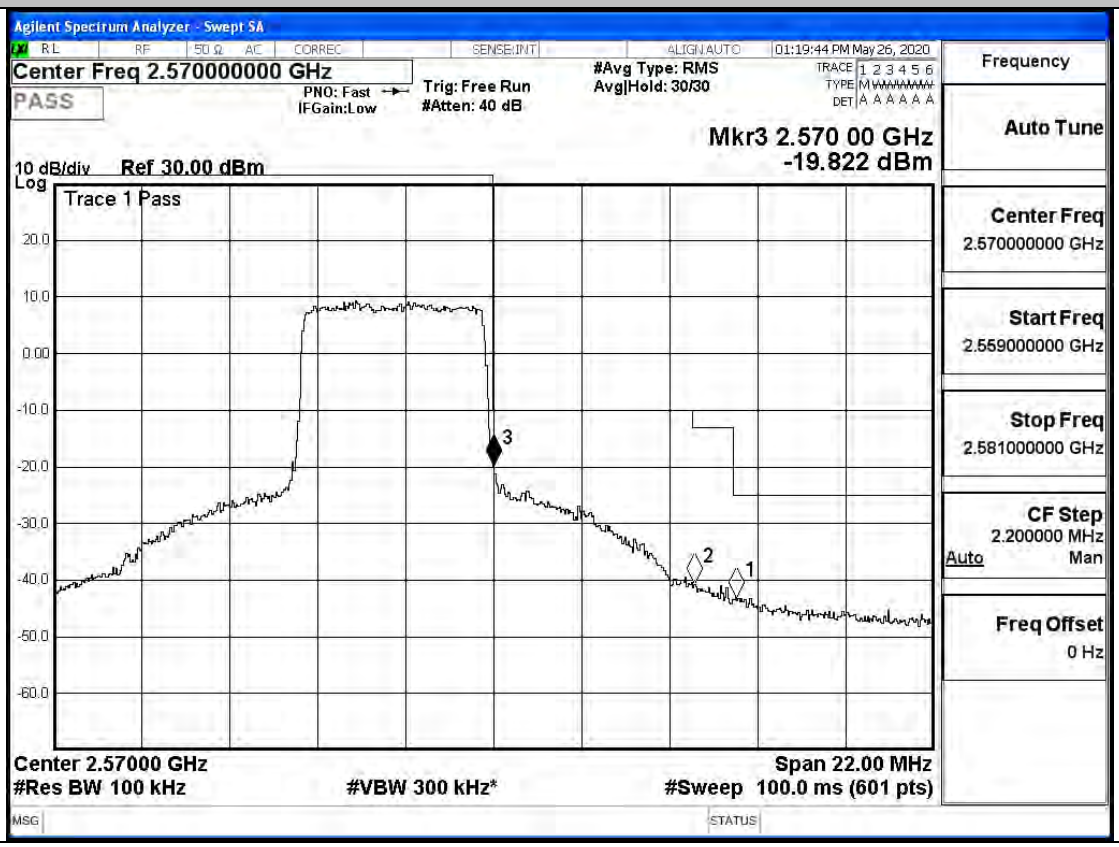
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



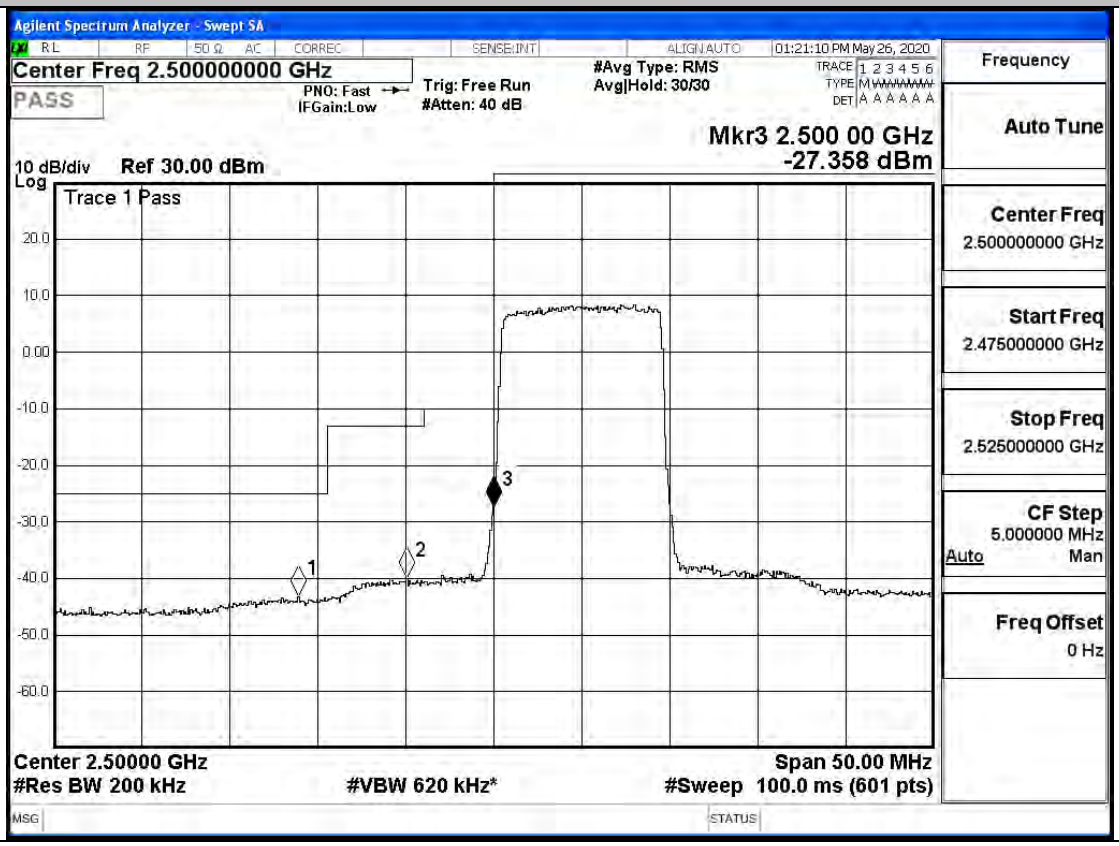
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



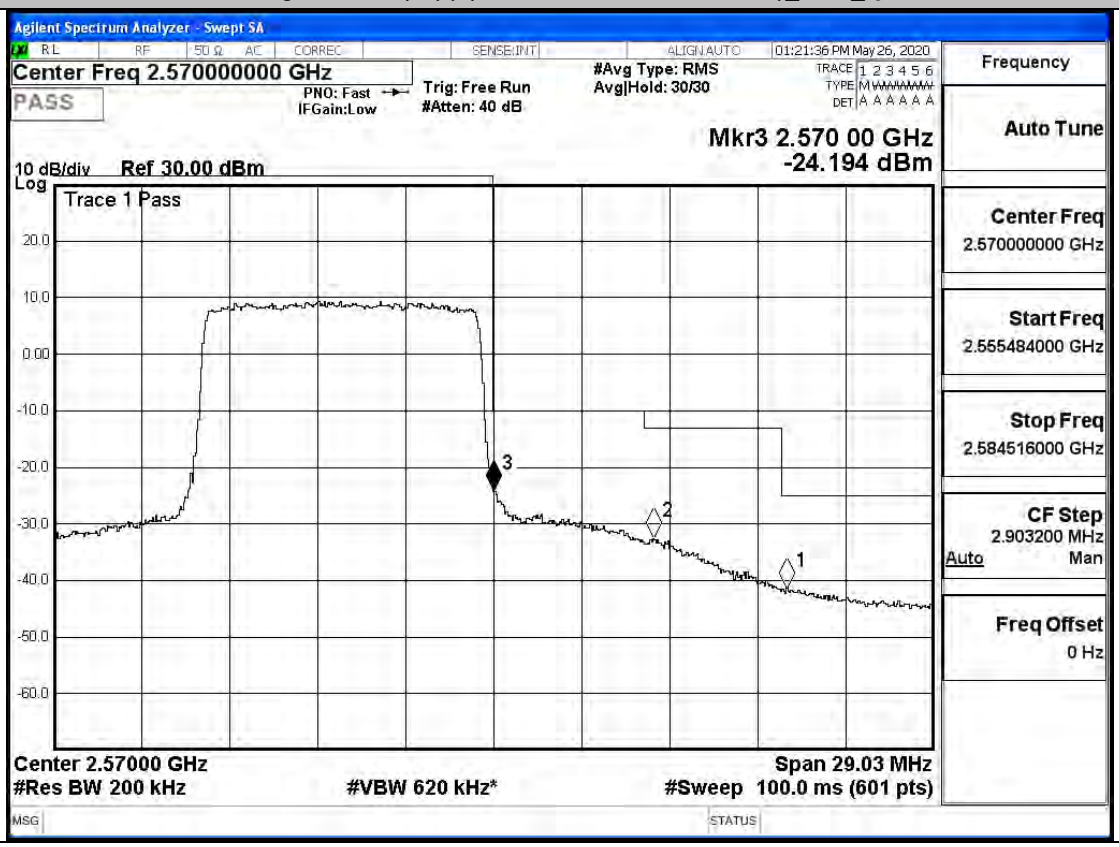
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



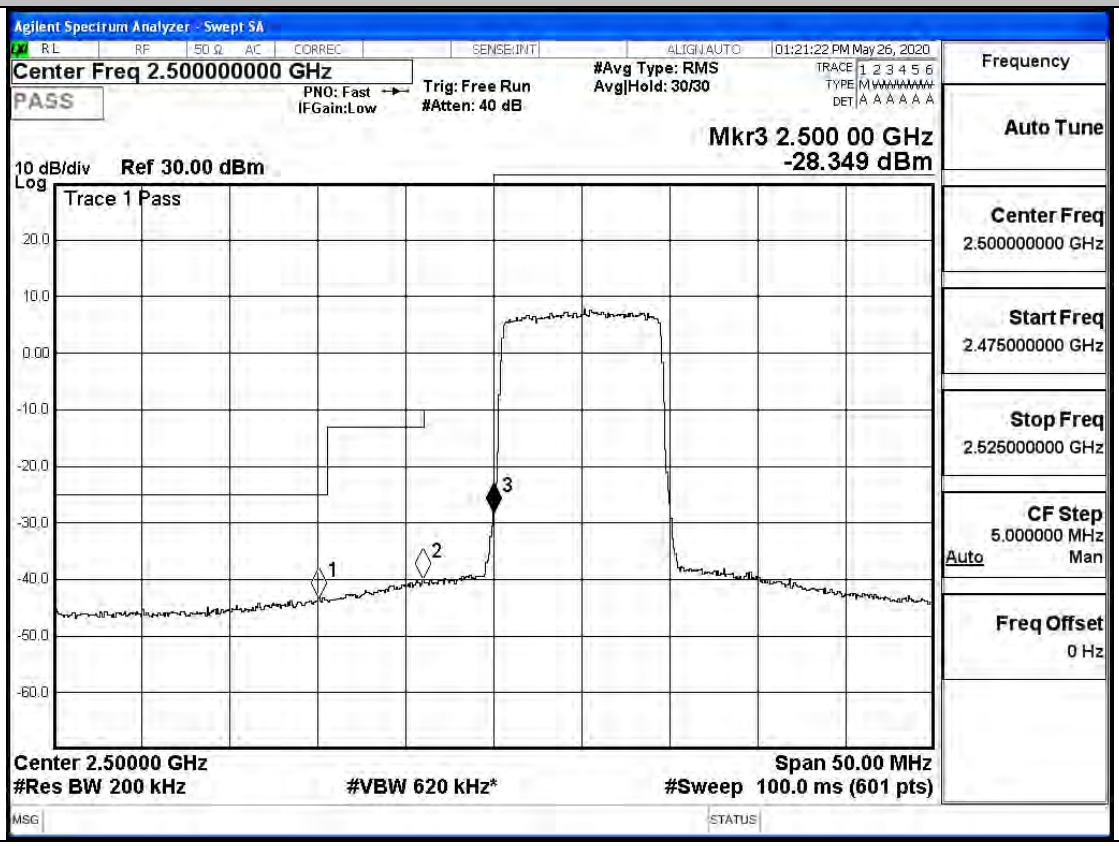
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



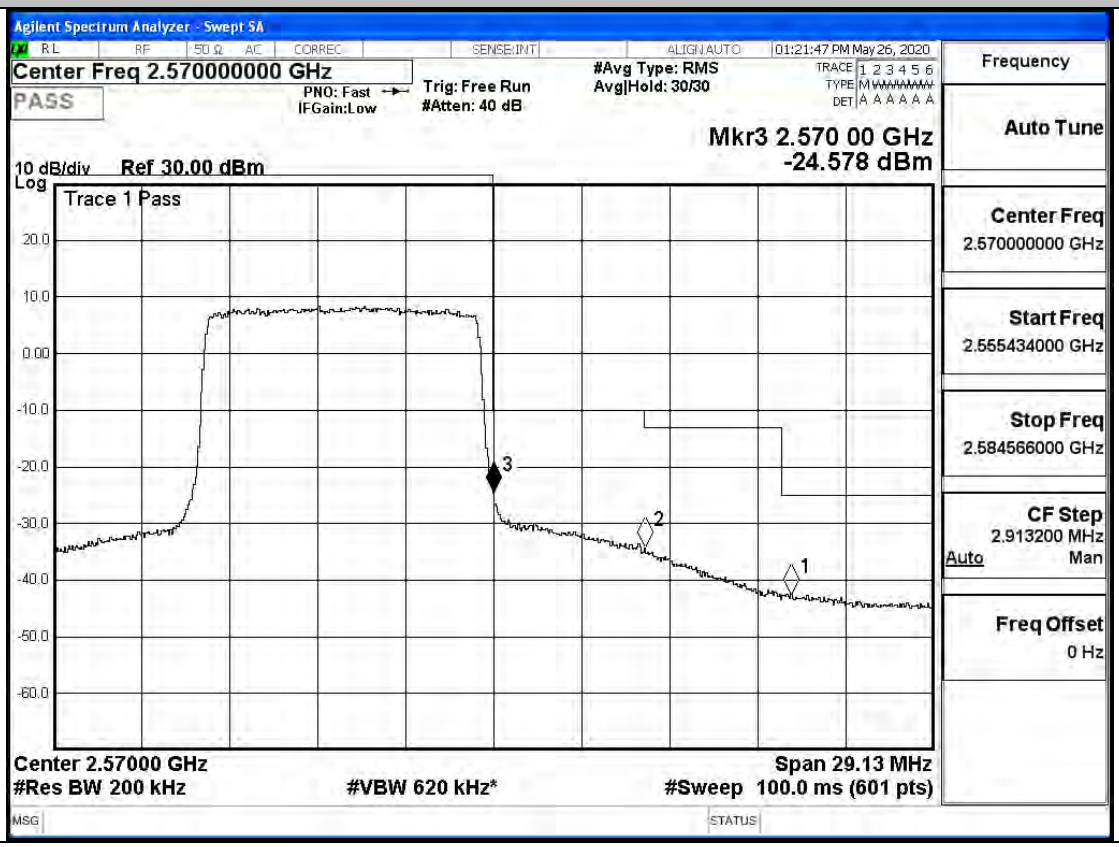
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



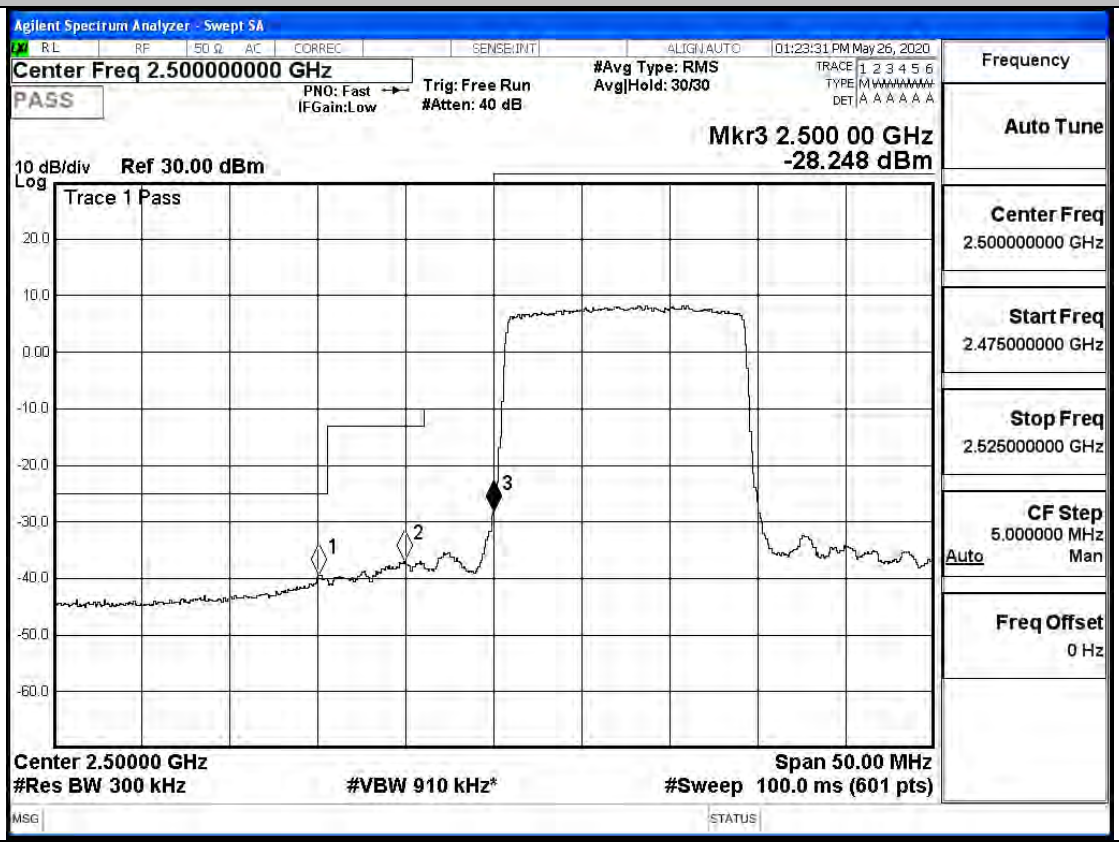
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



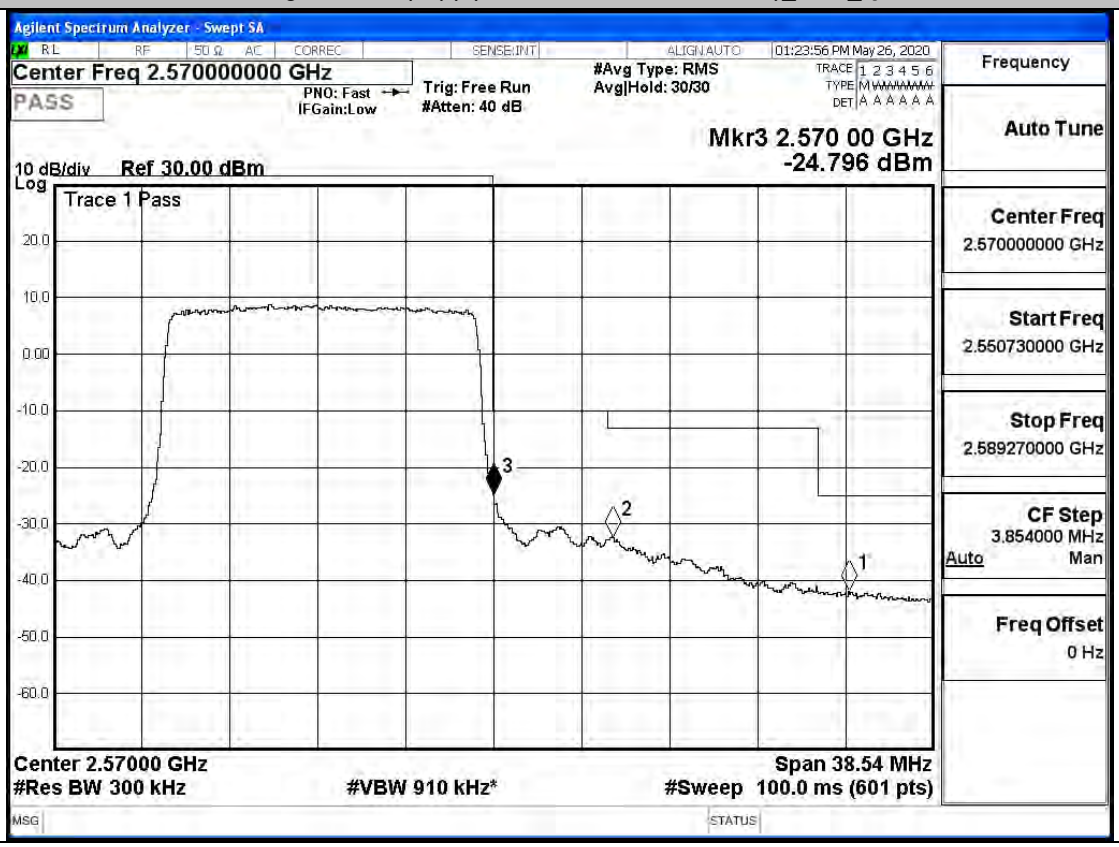
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



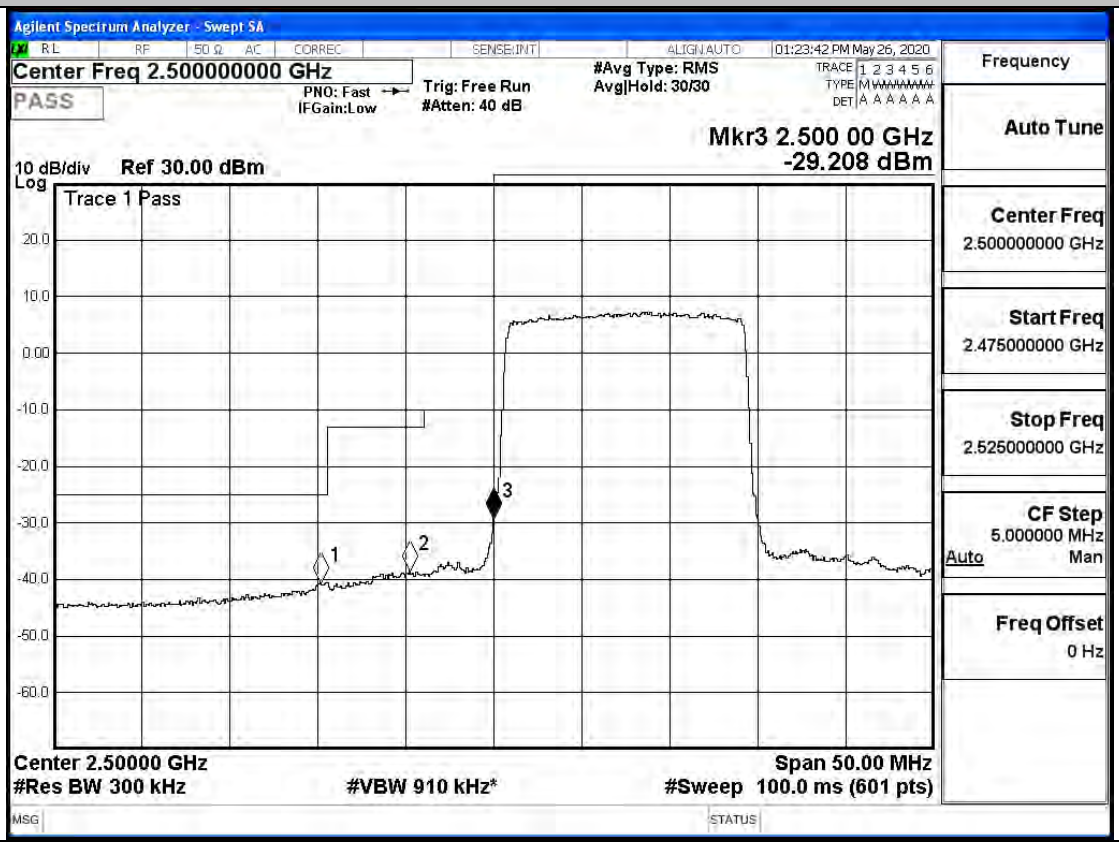
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



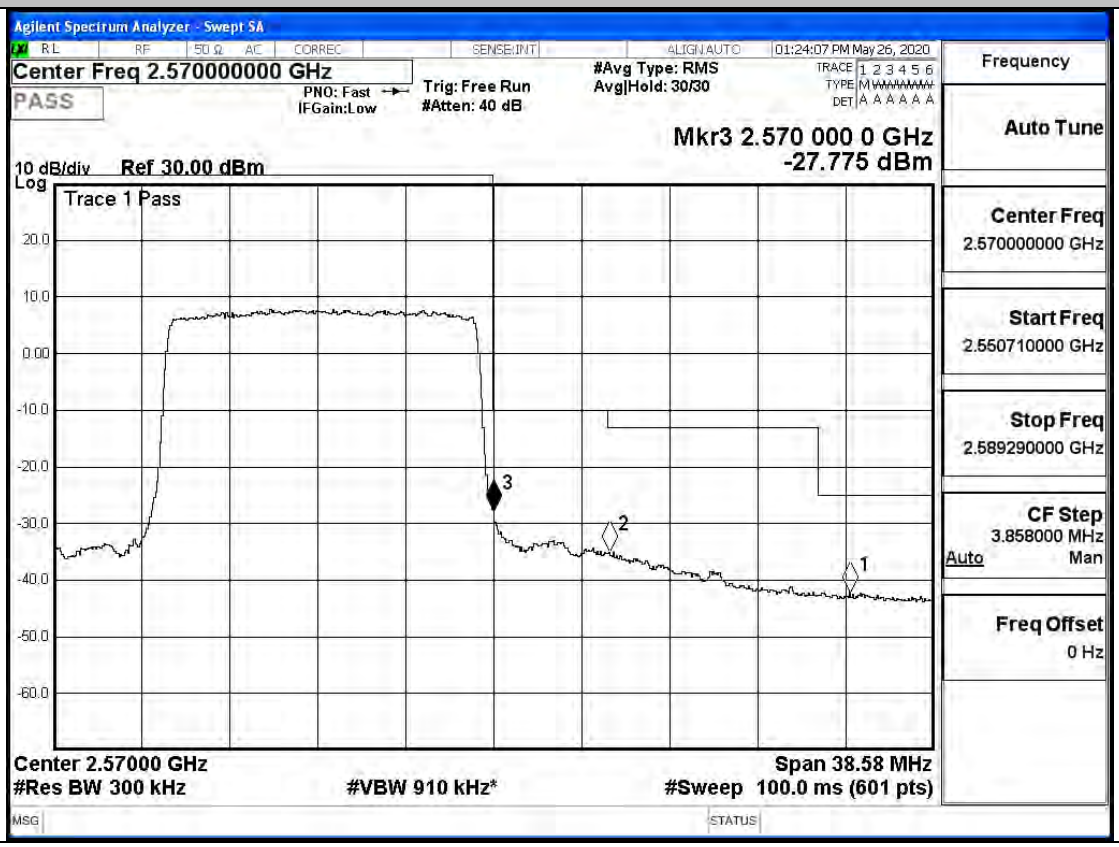
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



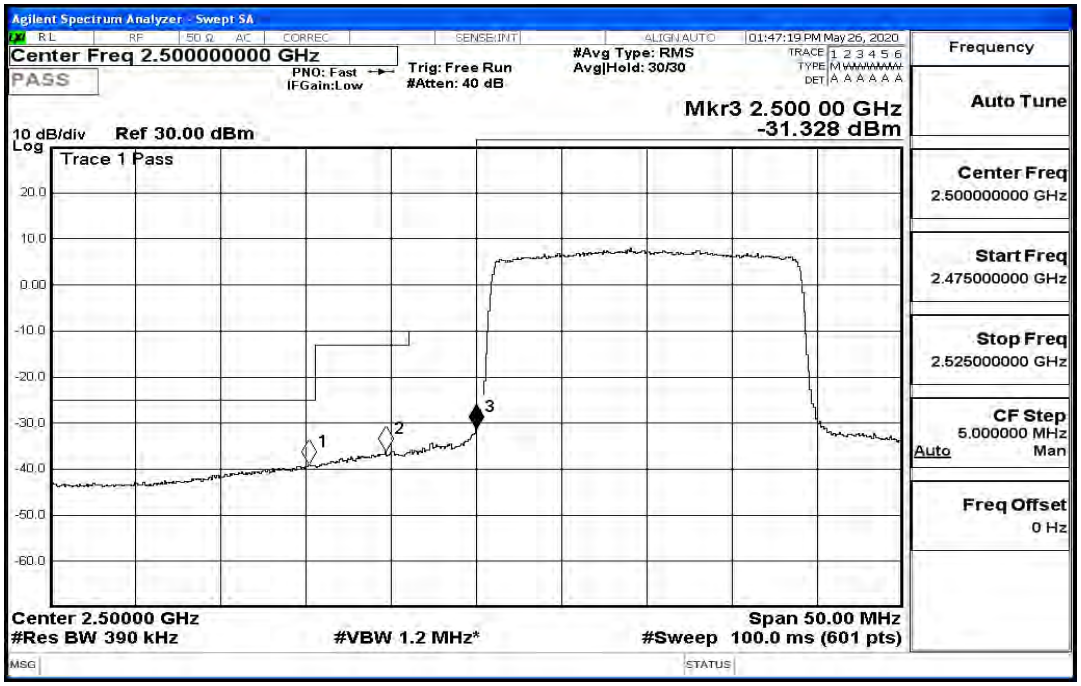
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



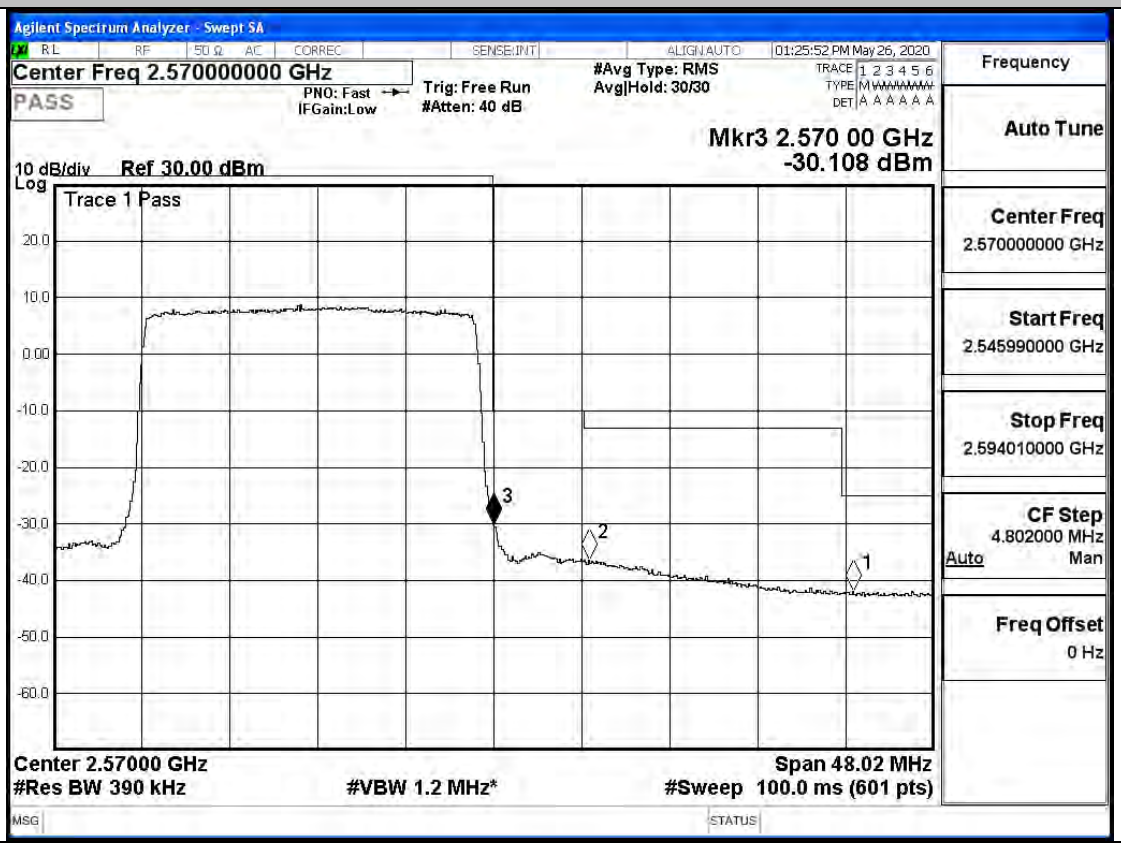
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



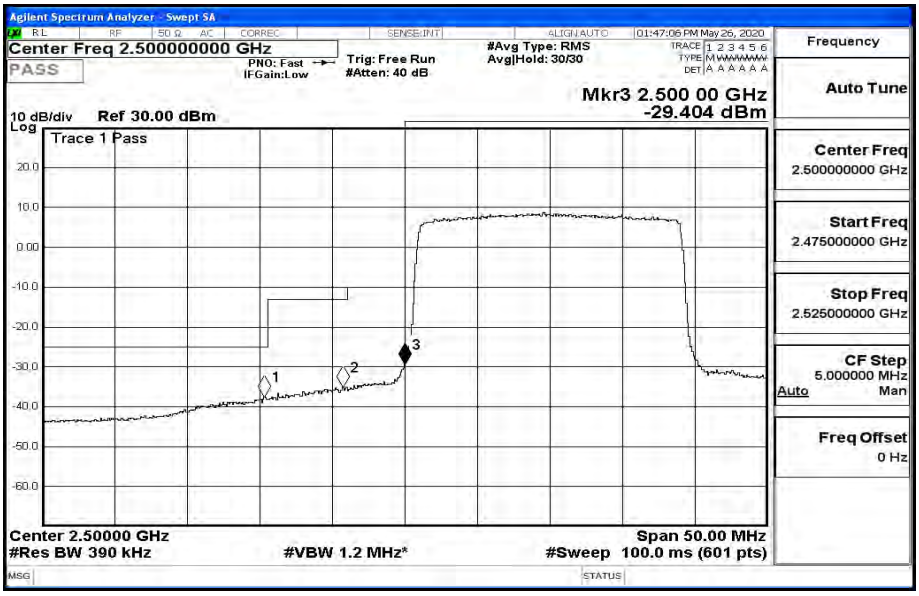
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



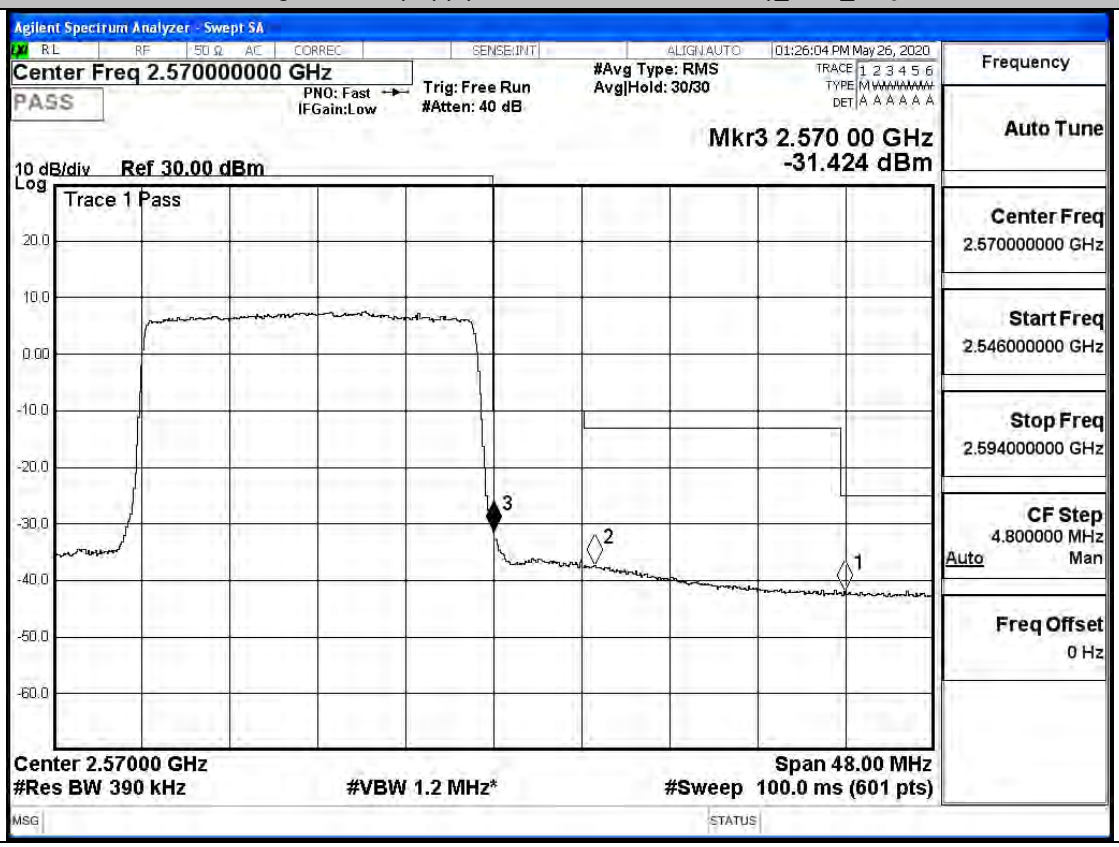
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



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


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.500000000 GHz
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 30/30
01:47:06 PM May 26, 2020
Mkr3 2.500 00 GHz
-29.404 dBm
10 dB/div
Log
Ref 30.00 dBm
Trace 1 Pass
Center 2.50000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz*
Span 50.00 MHz
#Sweep 100.0 ms (601 pts)
Frequency
Auto Tune
Center Freq
2.500000000 GHz
Start Freq
2.475000000 GHz
Stop Freq
2.525000000 GHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz

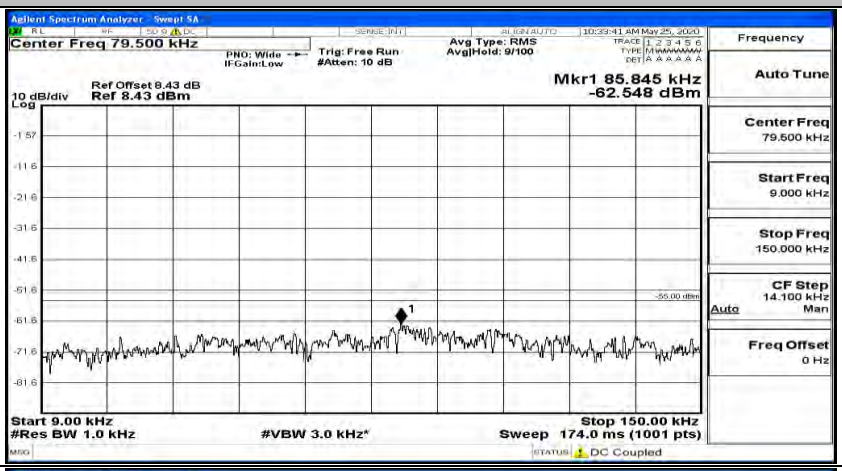
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

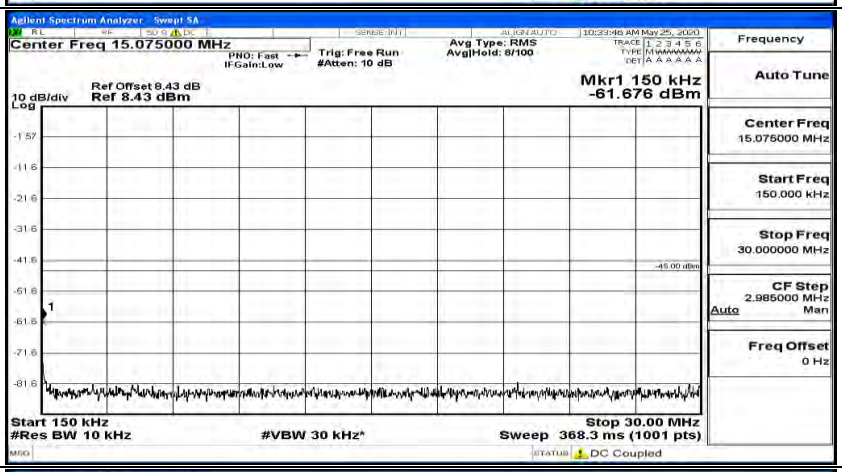


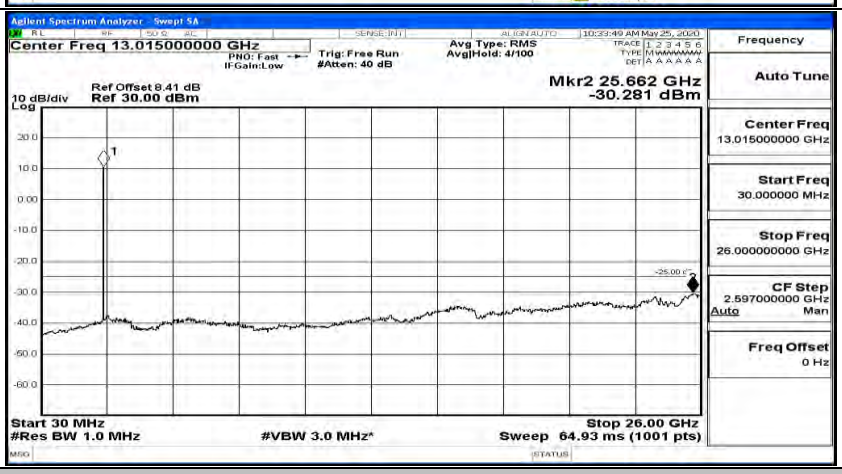
E.5 Conducted Spurious Emission

Channel Bandwidth: 5 MHz

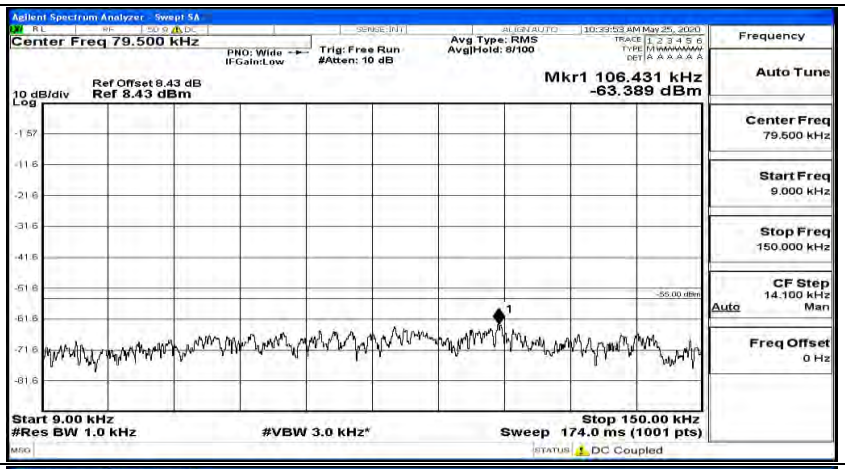
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

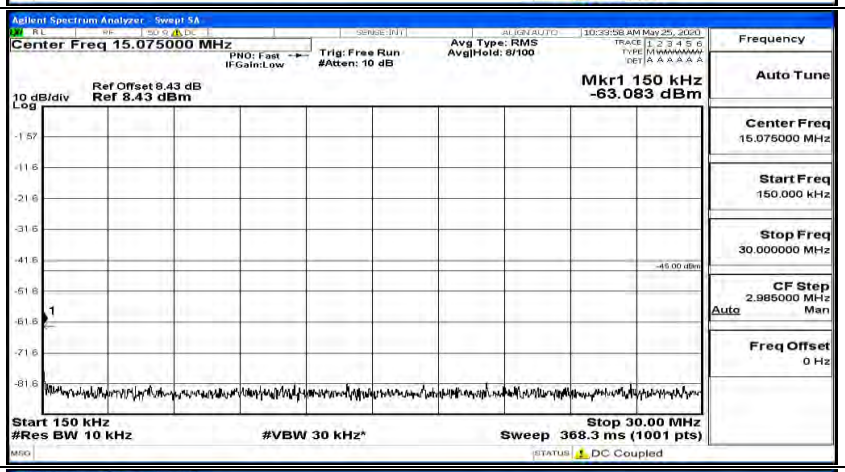


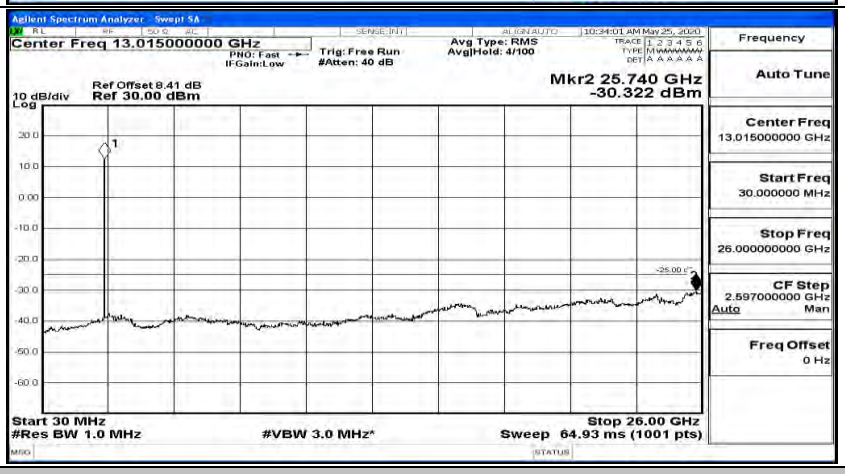




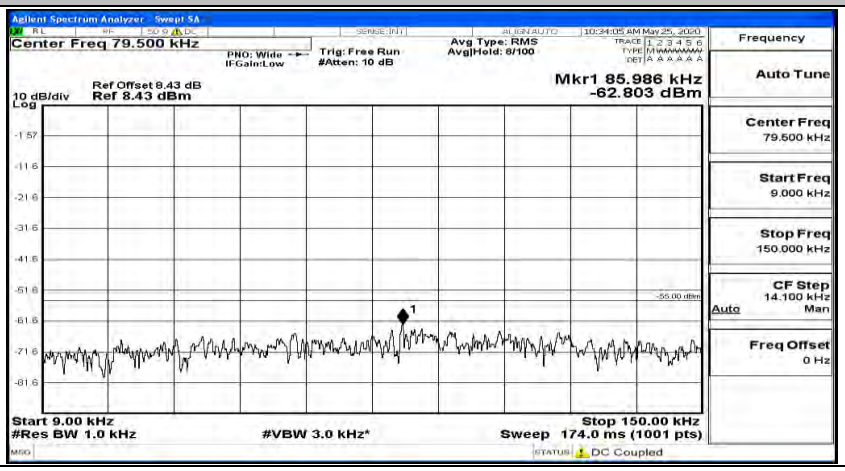
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

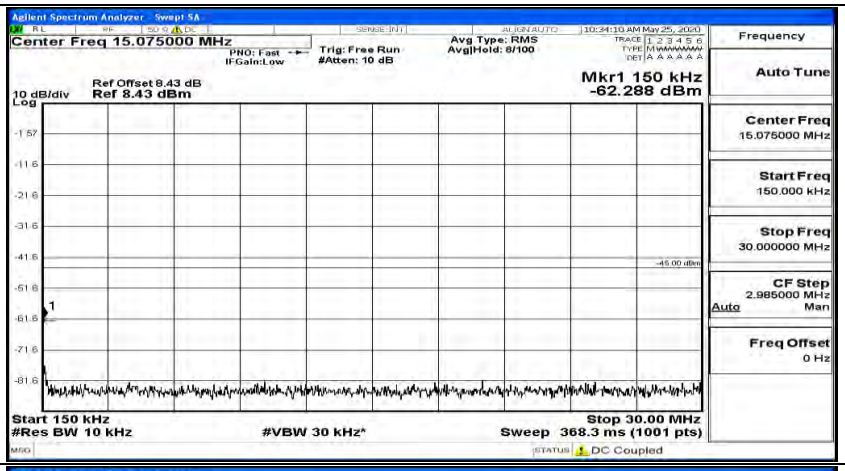




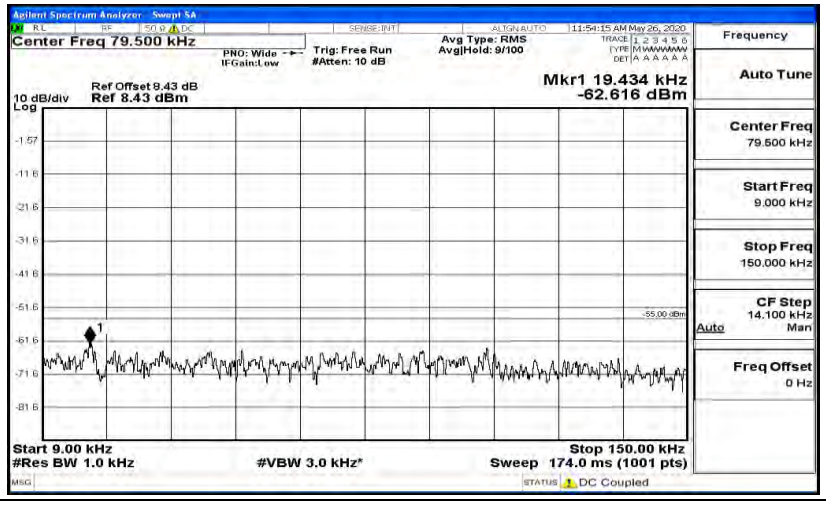


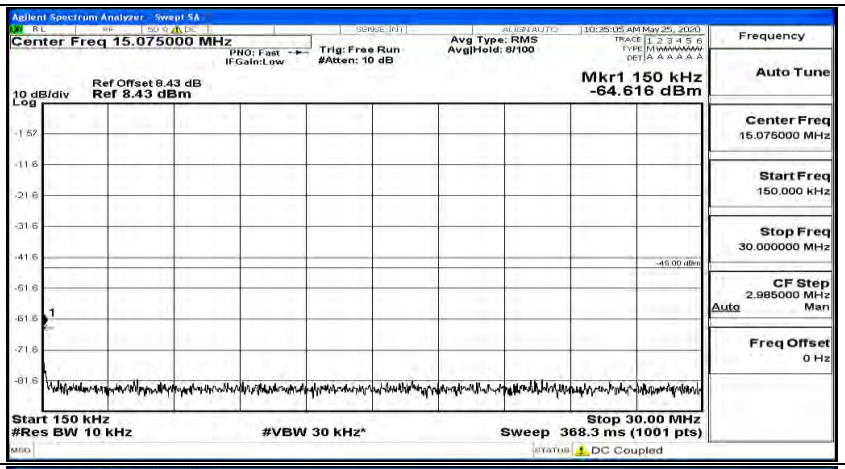
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

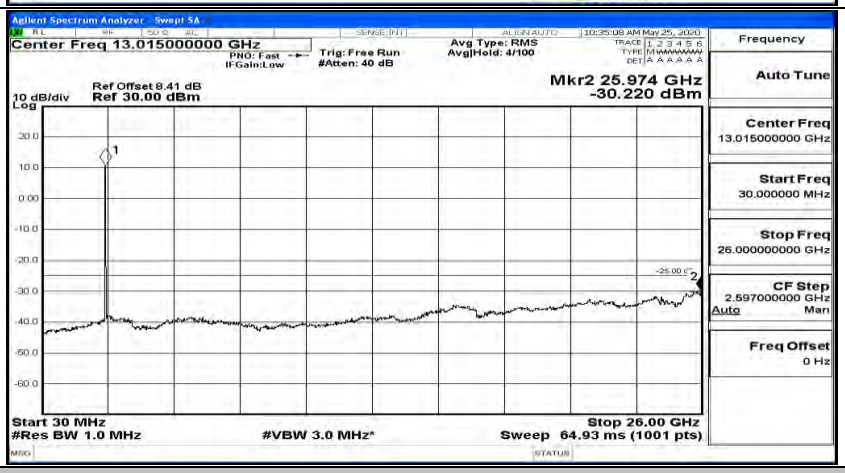




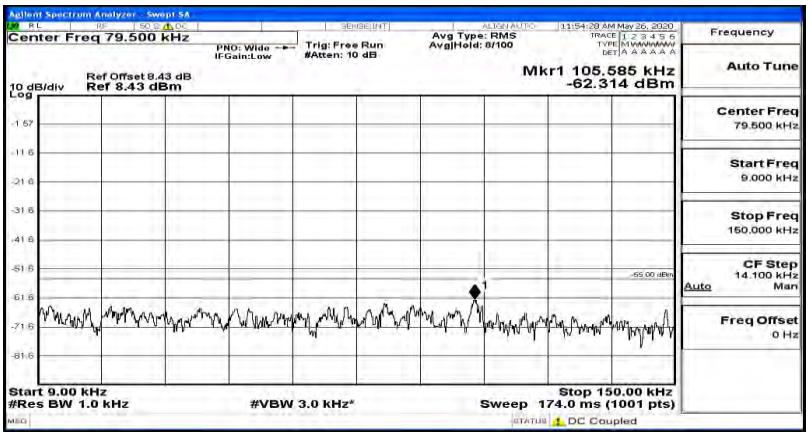
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

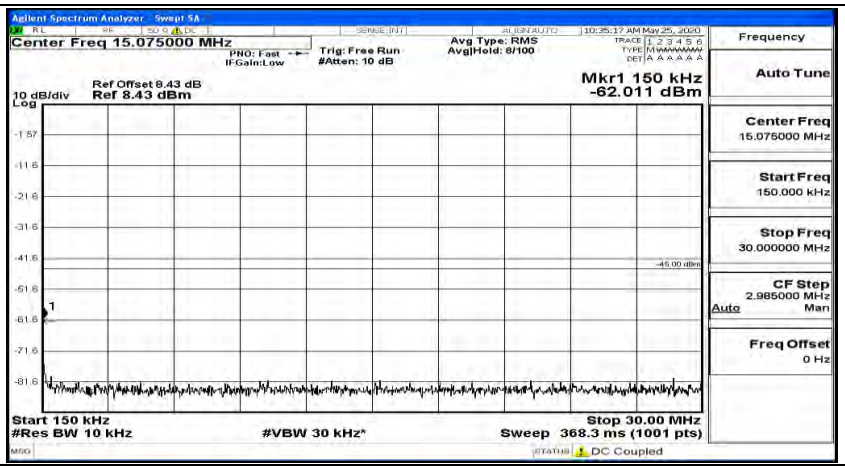




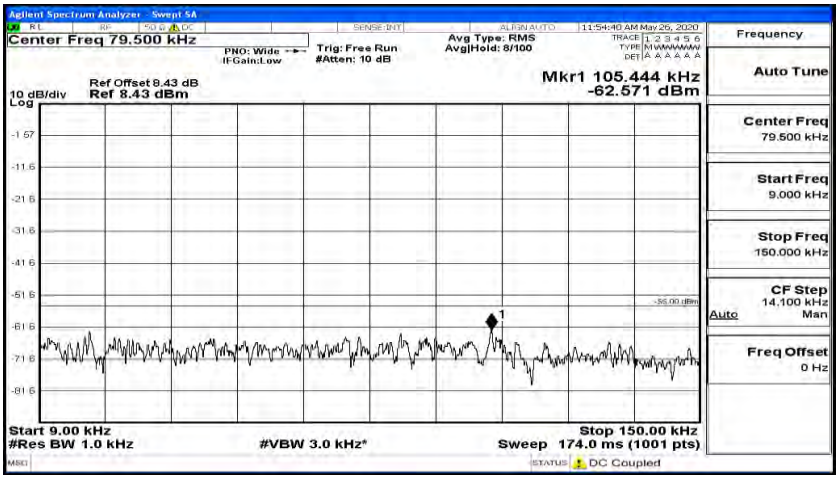


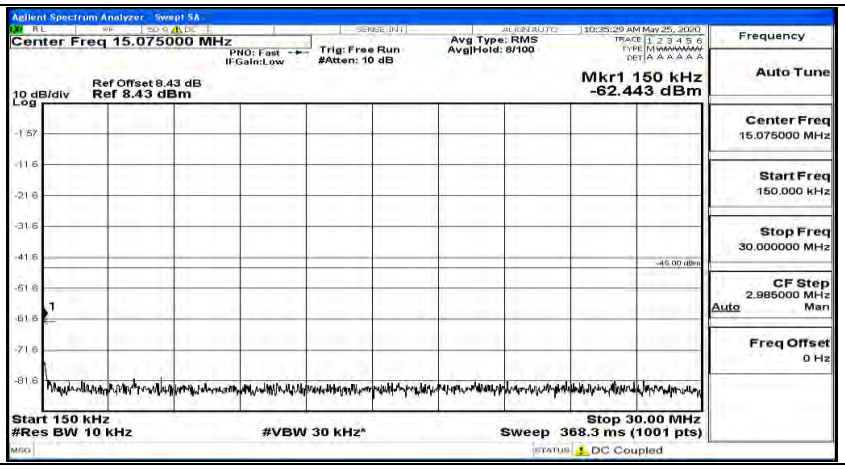
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

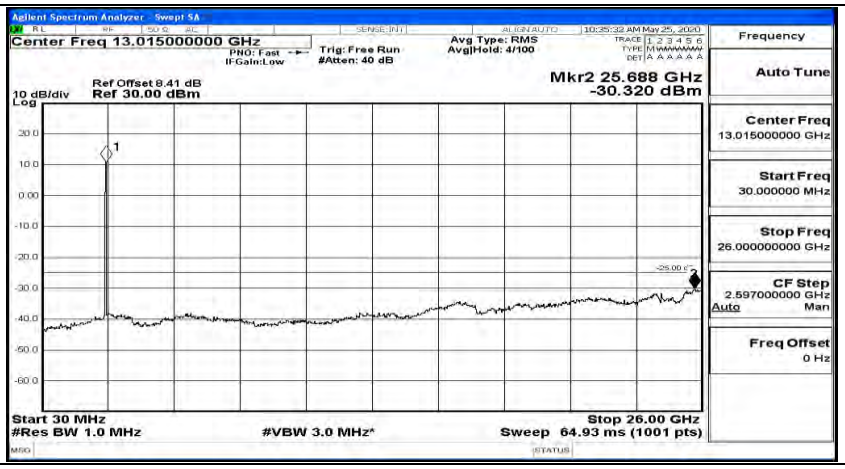




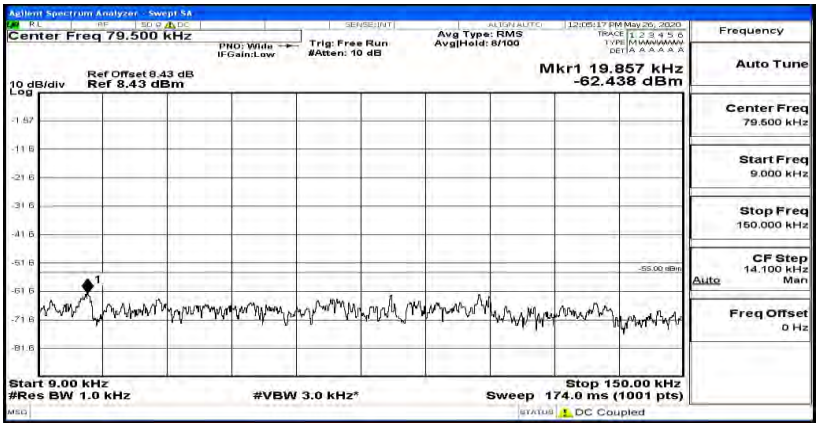
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

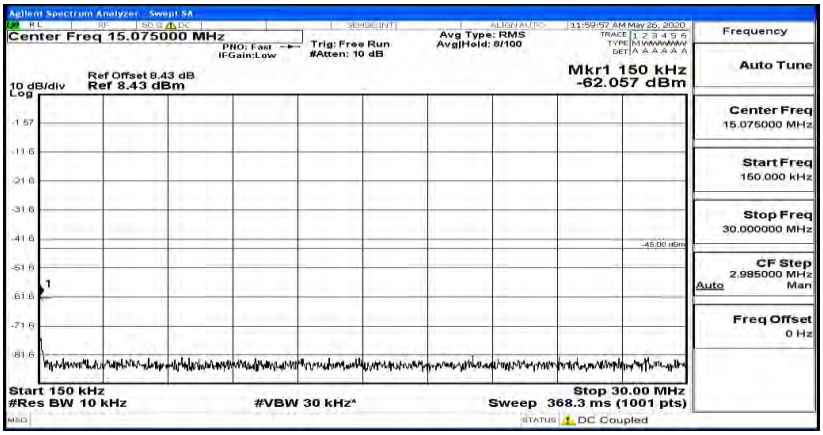




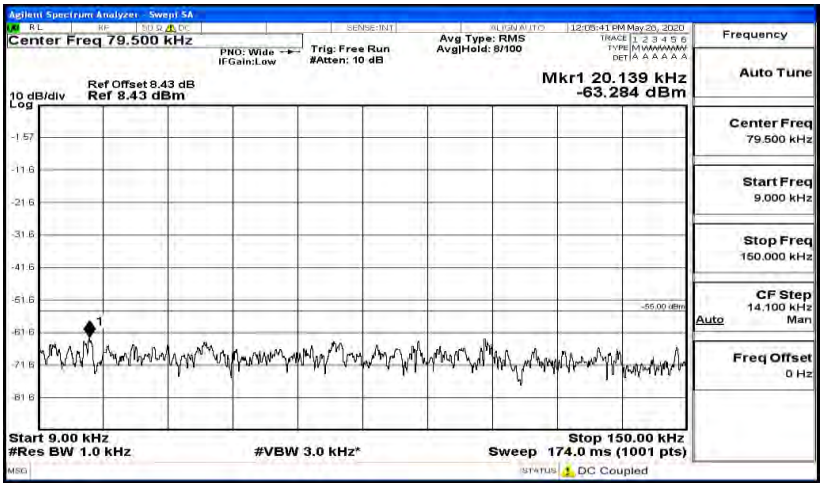


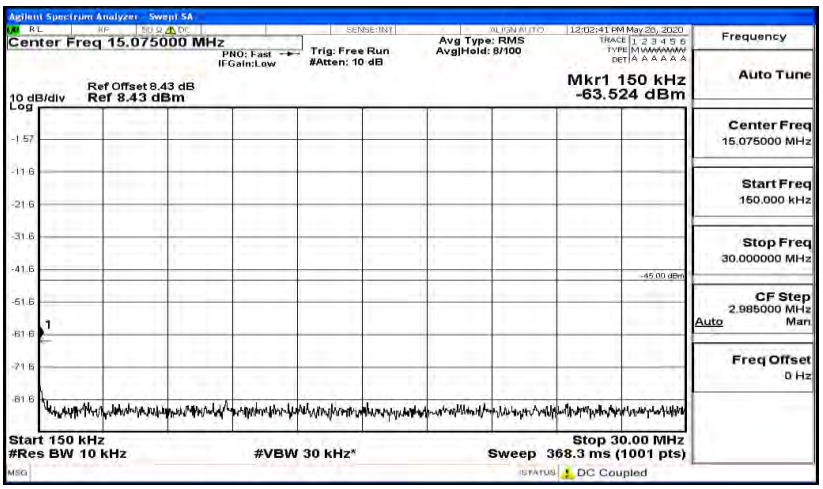
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

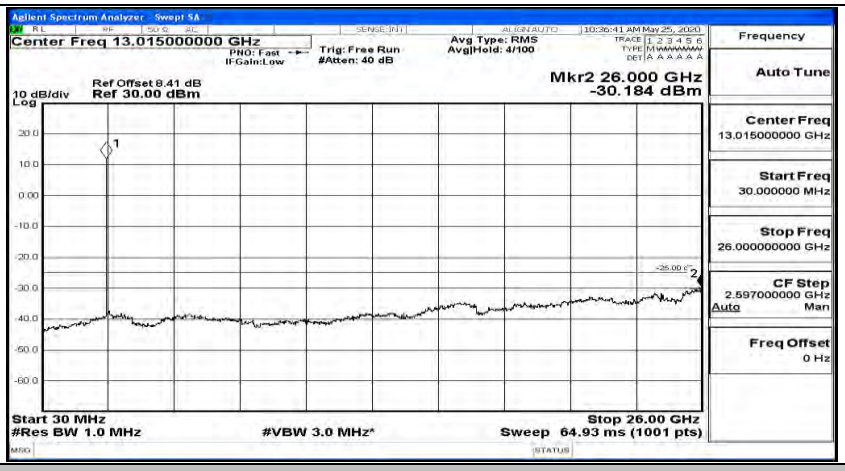




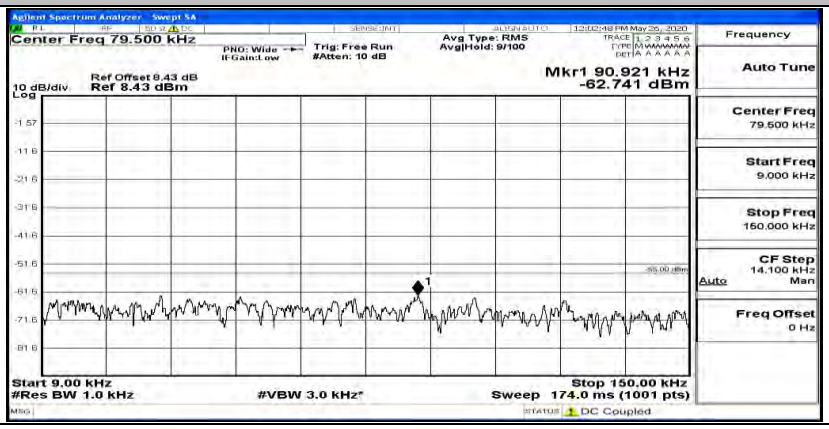
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

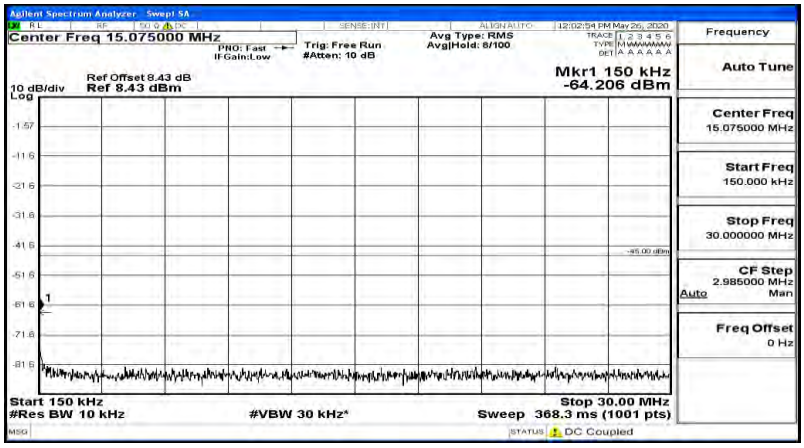


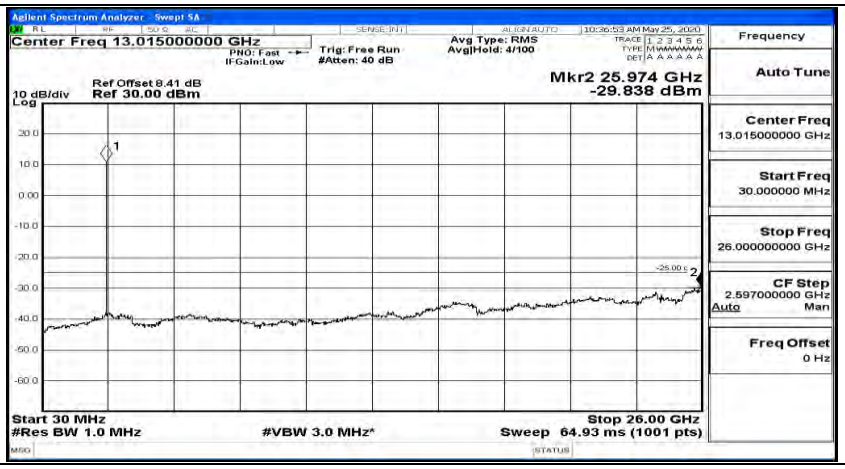




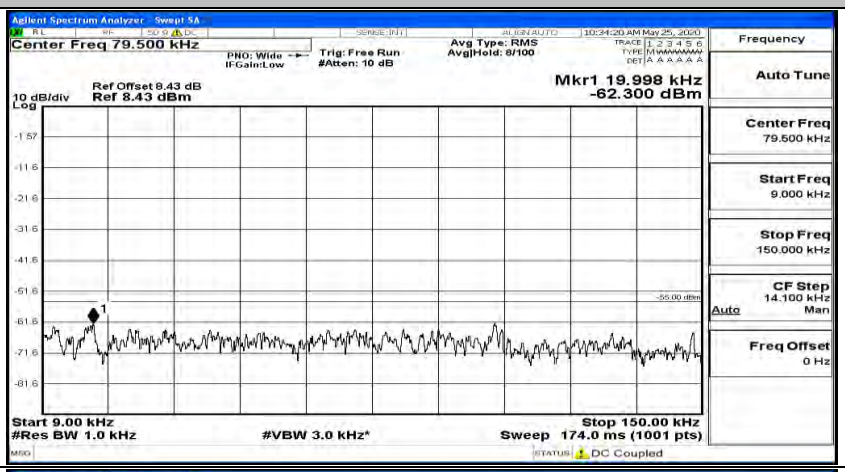
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

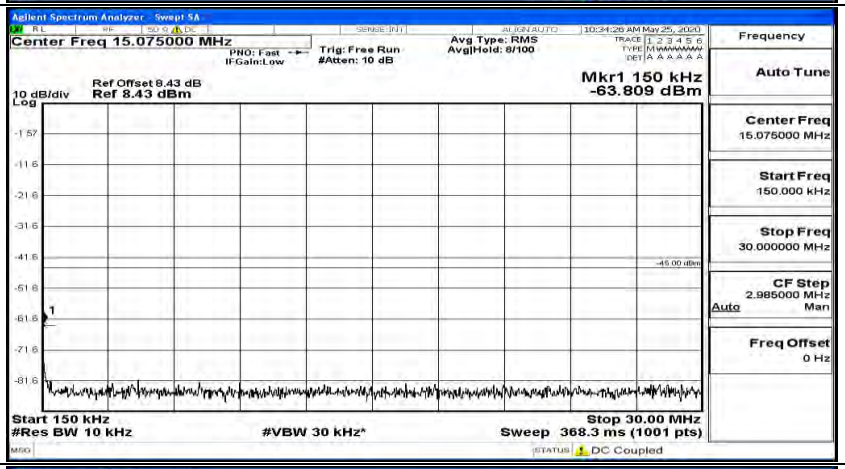


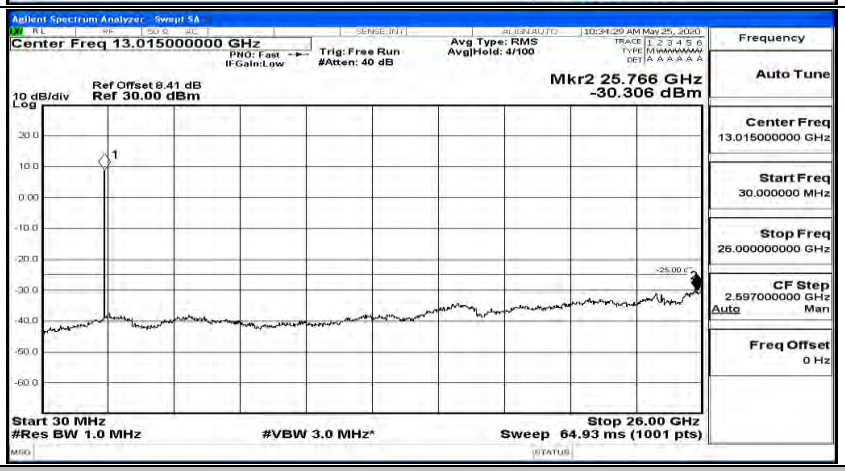




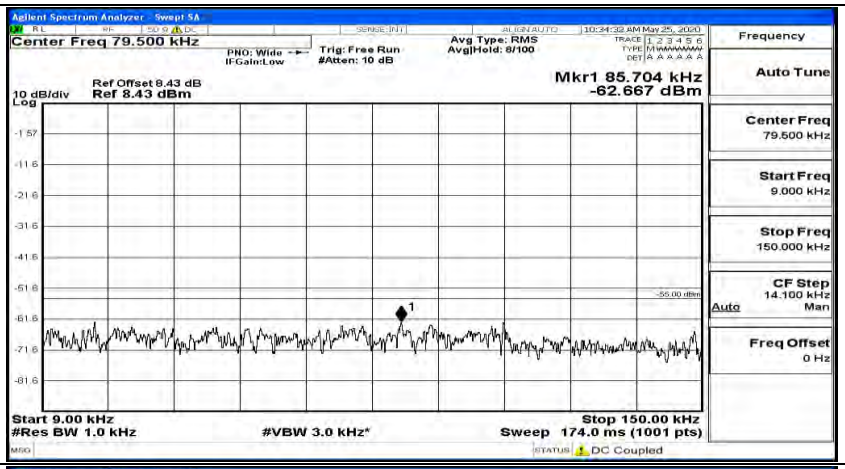
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

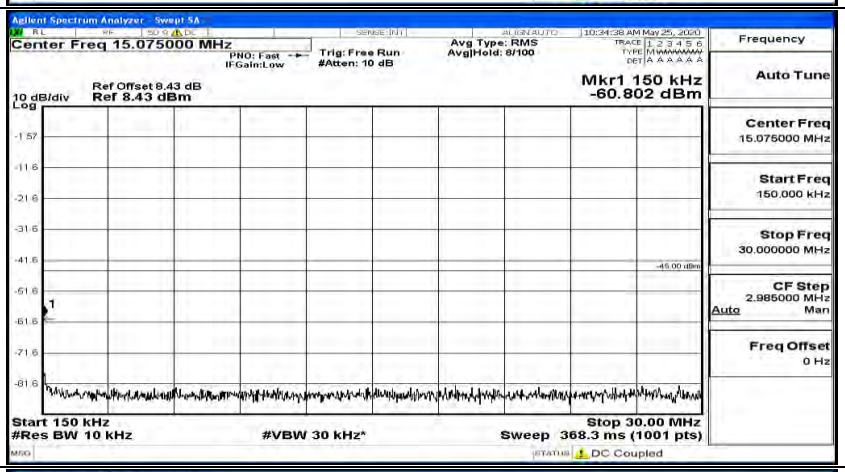




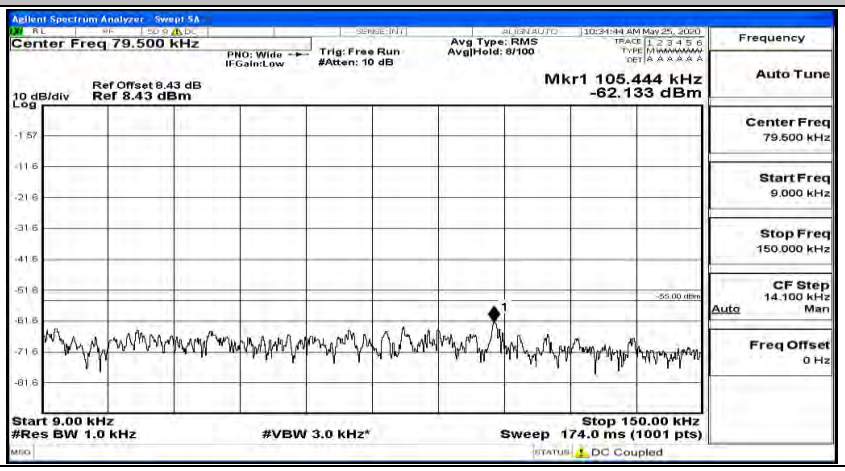


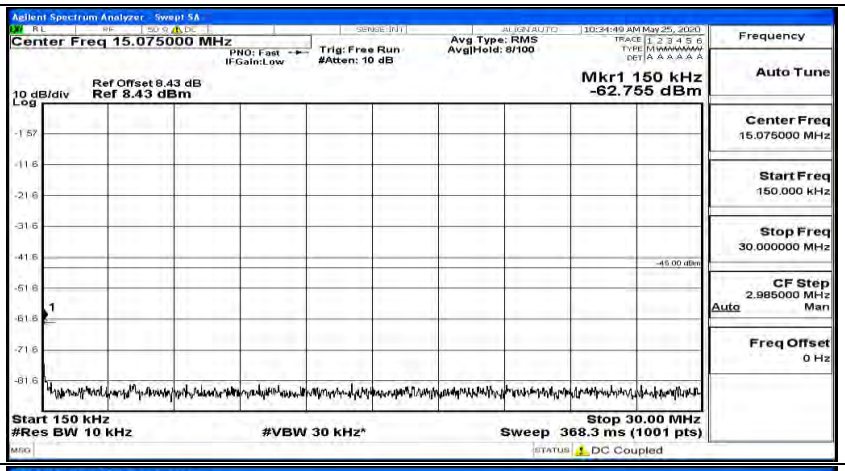
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



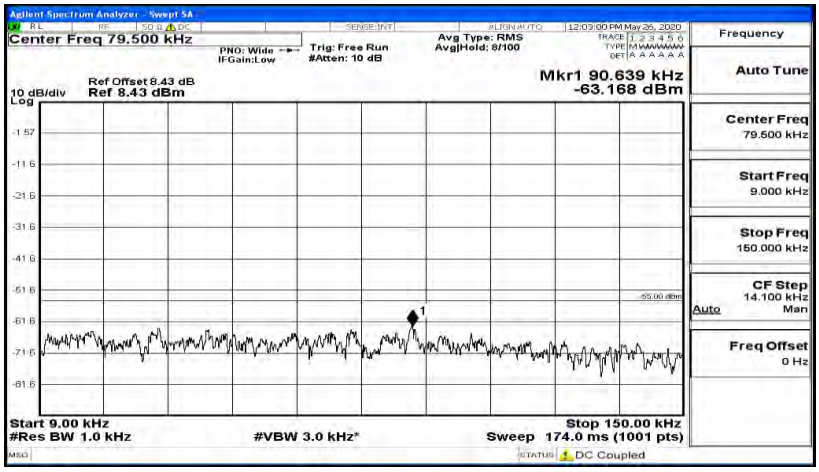


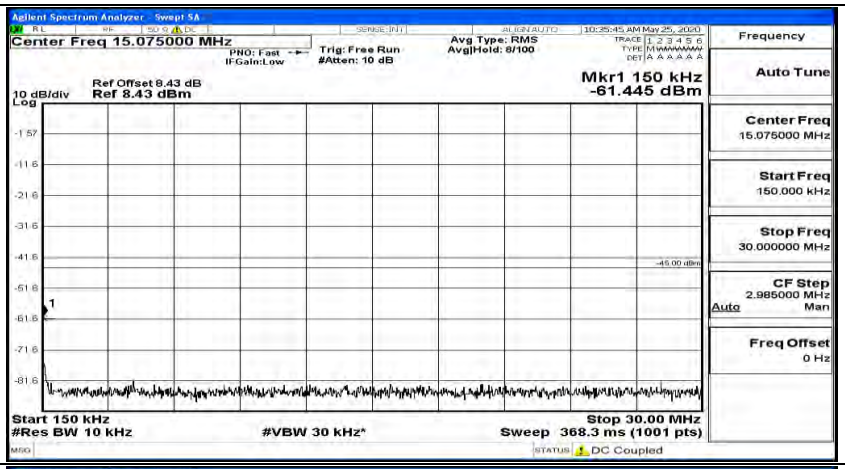
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

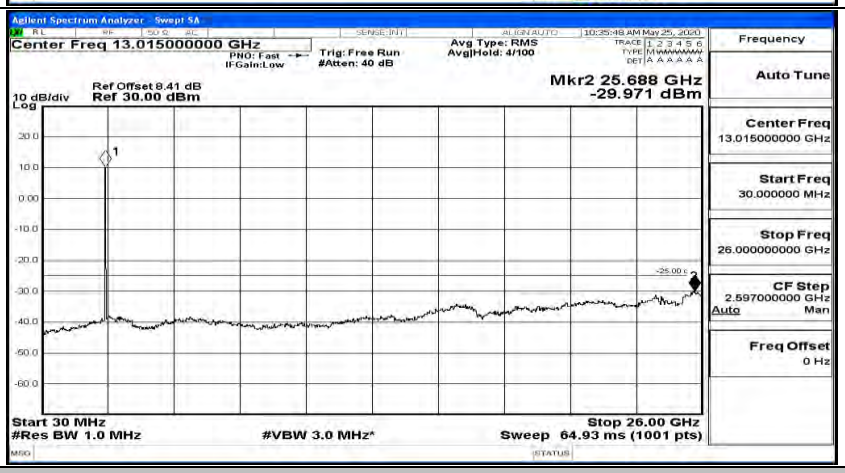




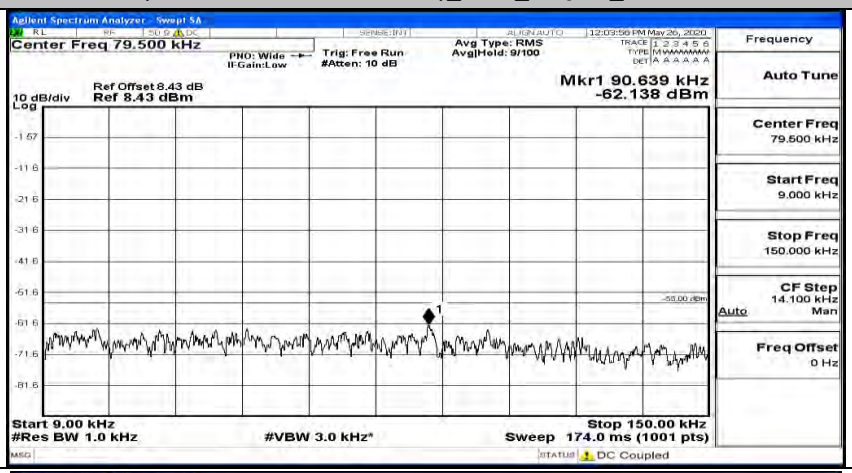
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

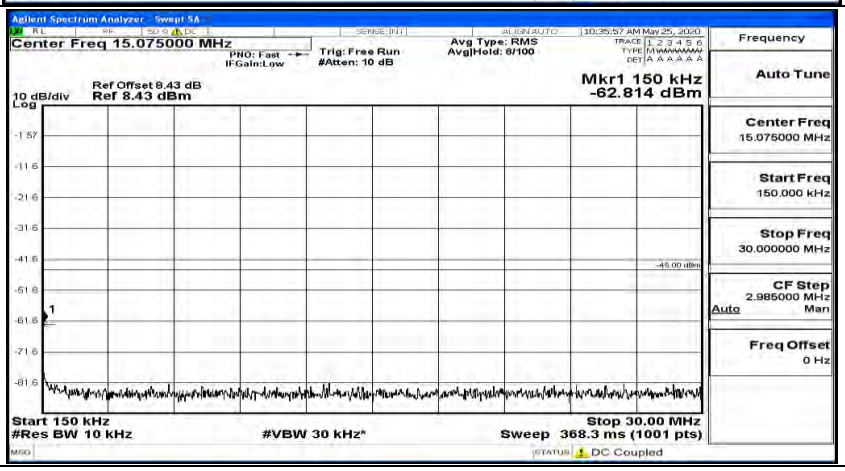


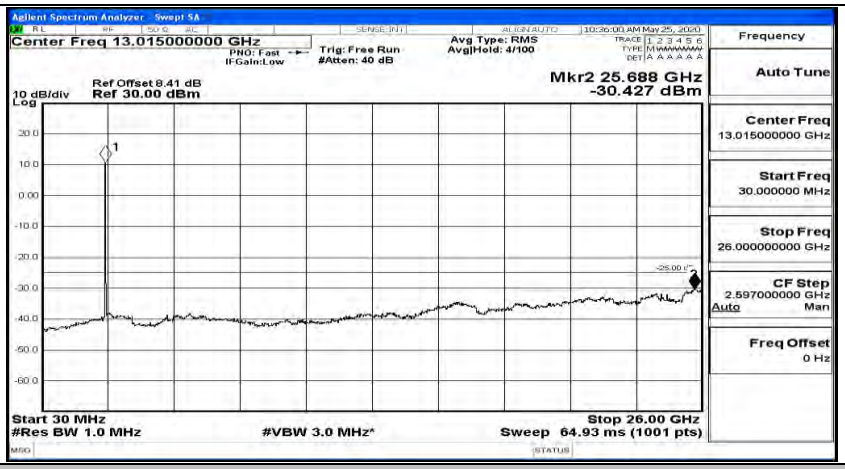




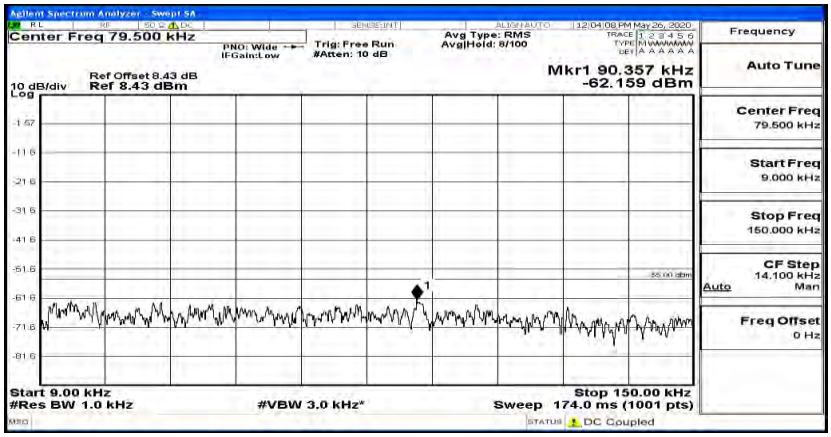
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

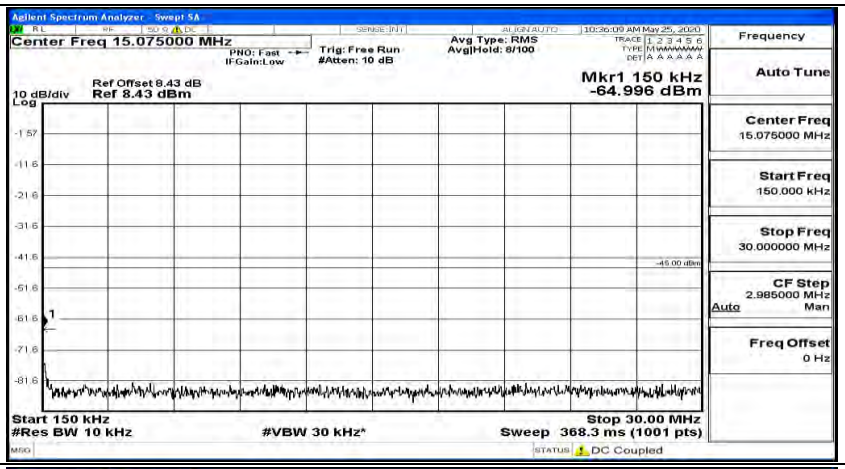


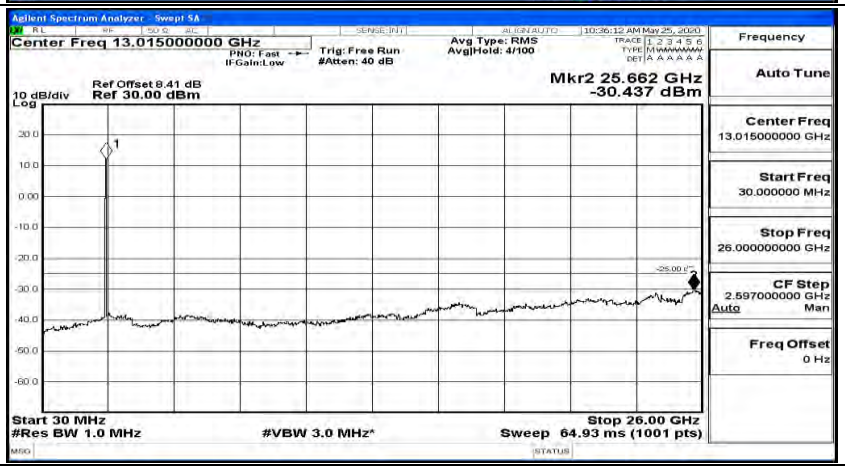




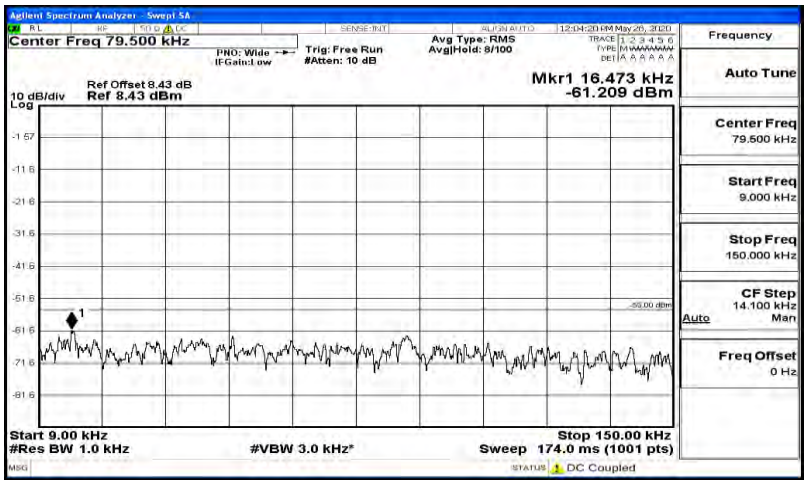
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

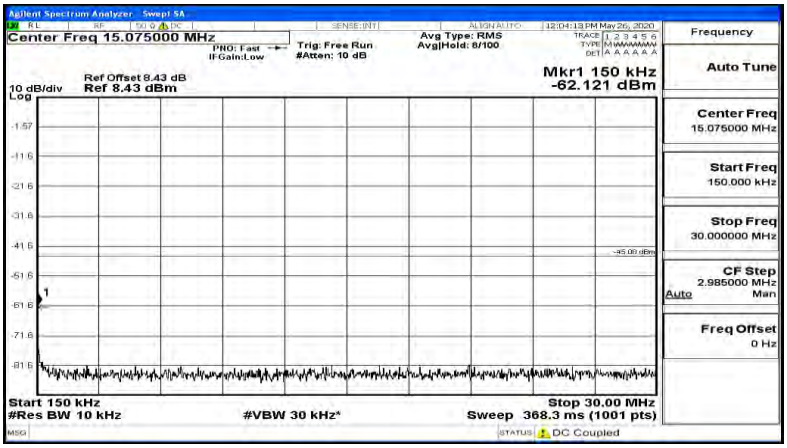


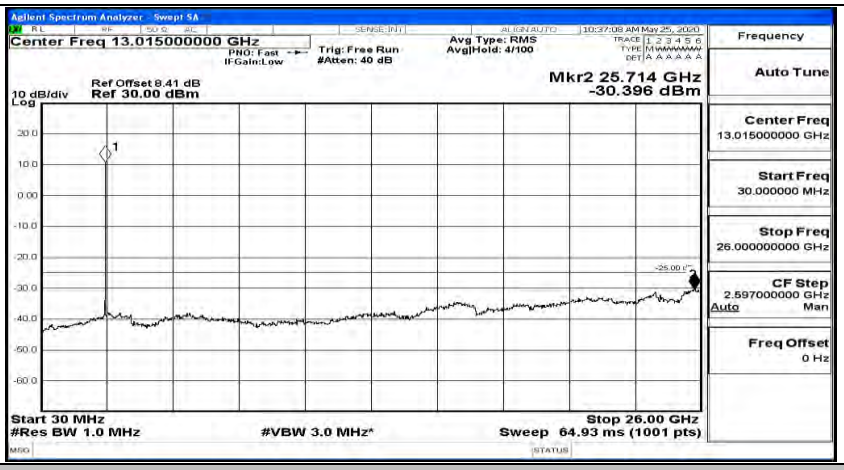




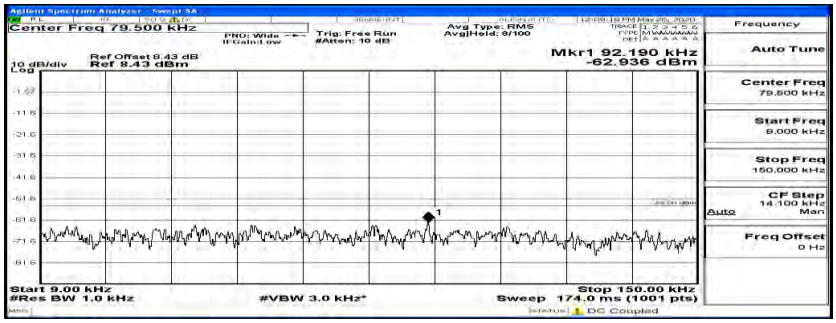
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

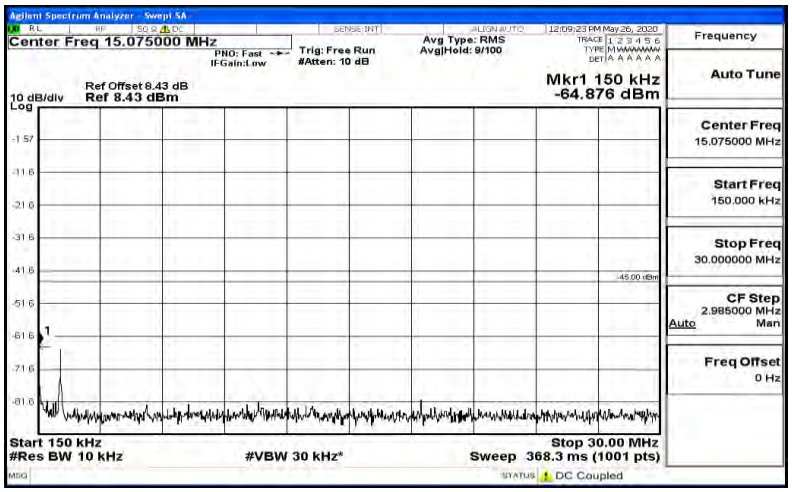




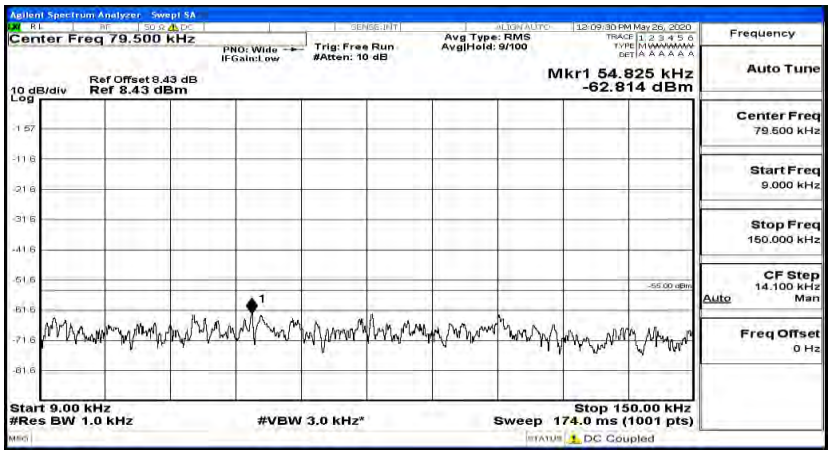


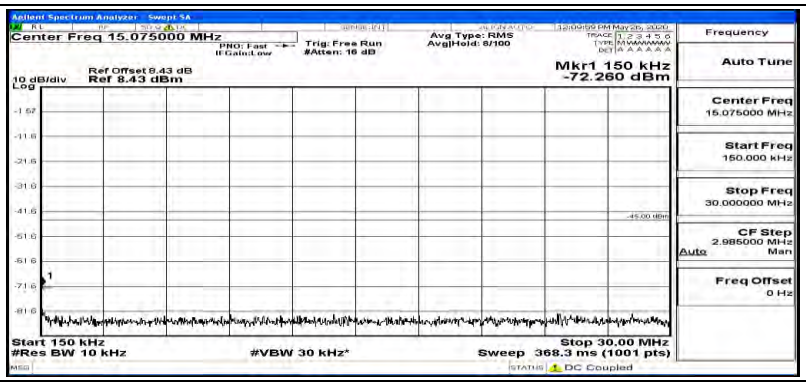
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

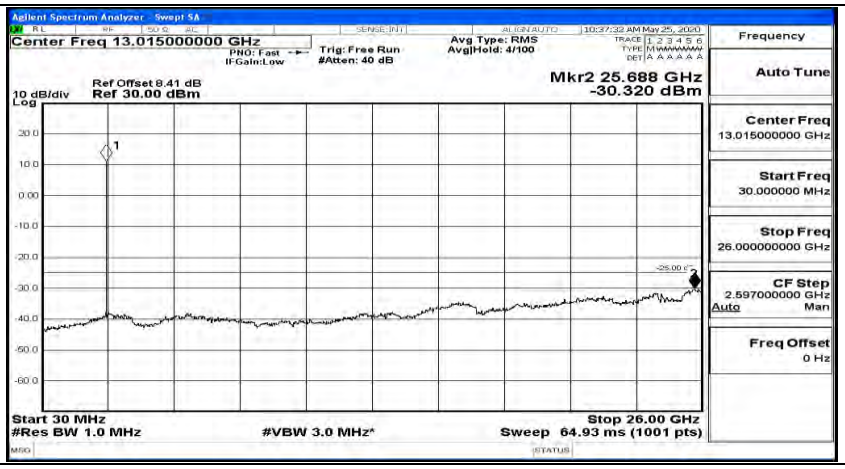




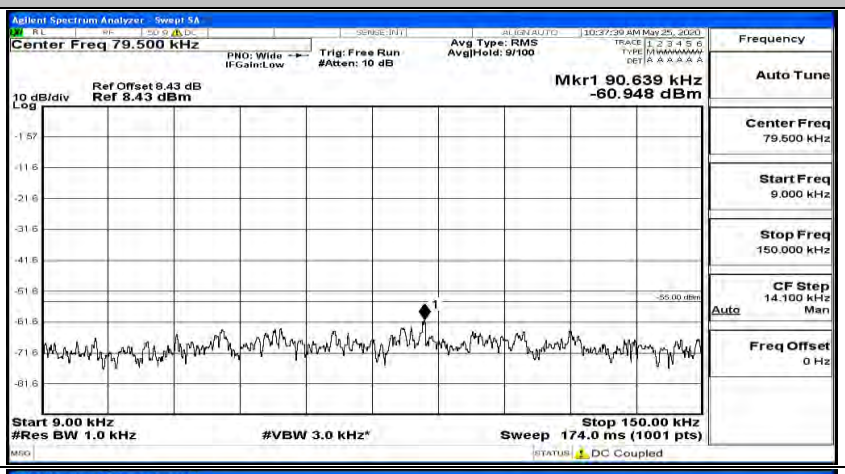
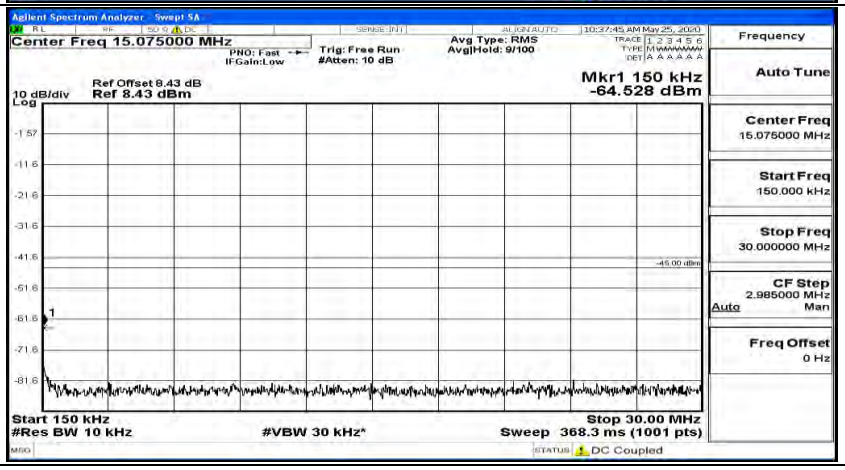
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



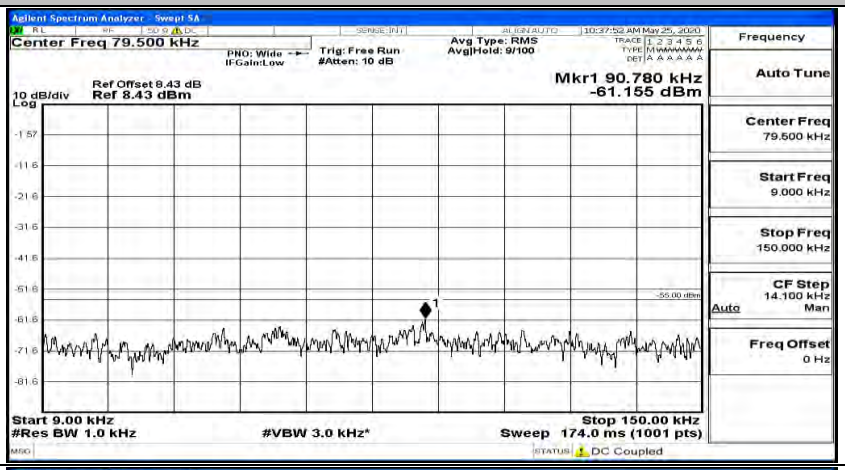


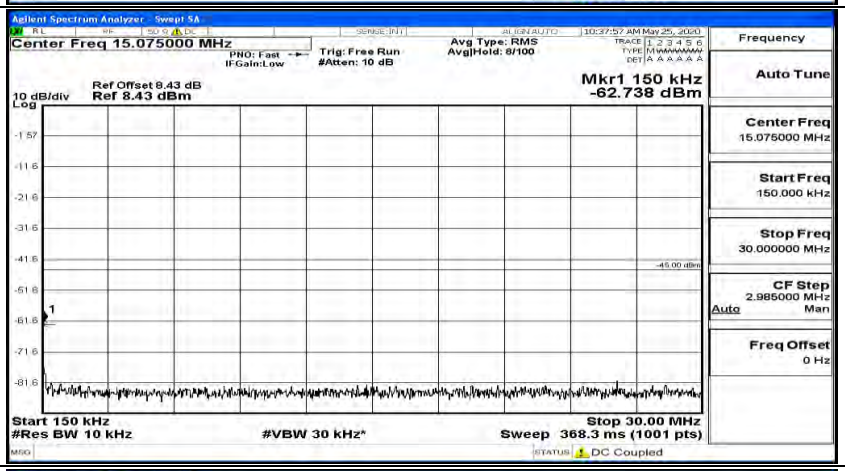


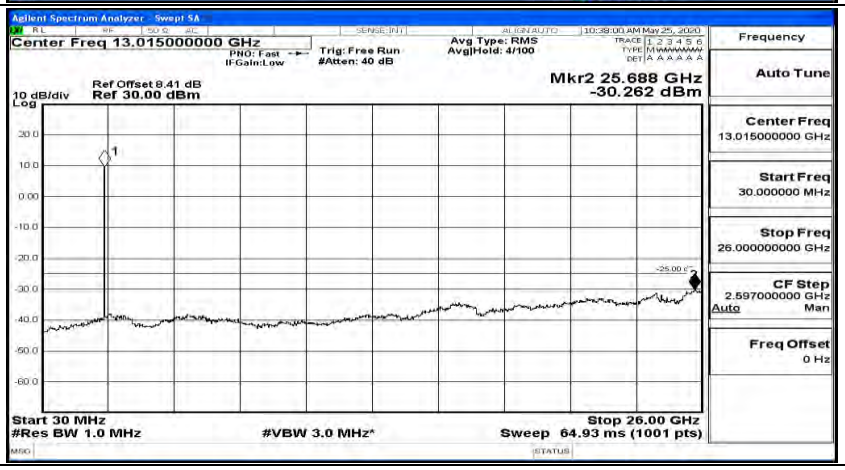
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



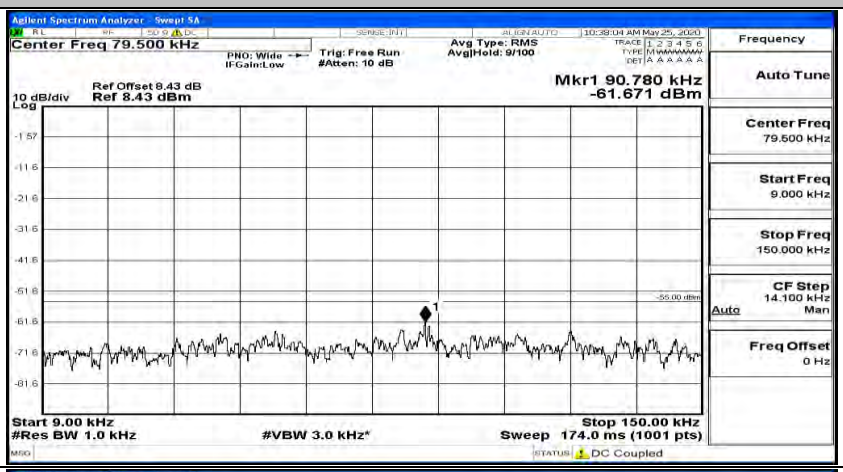
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

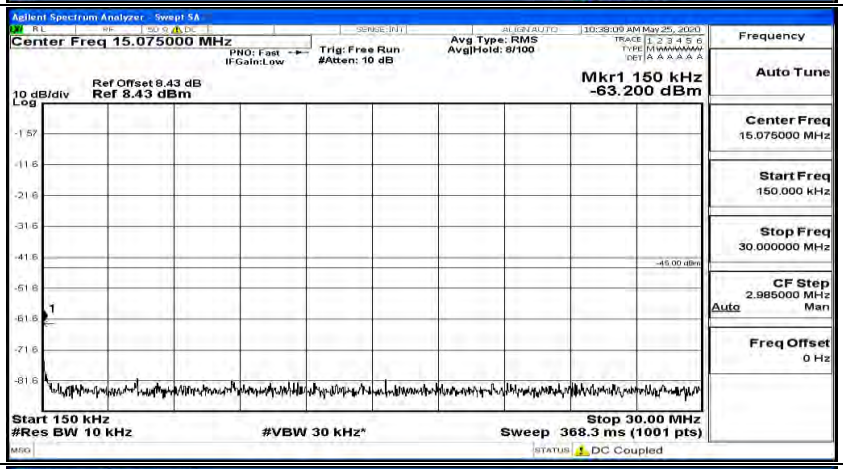




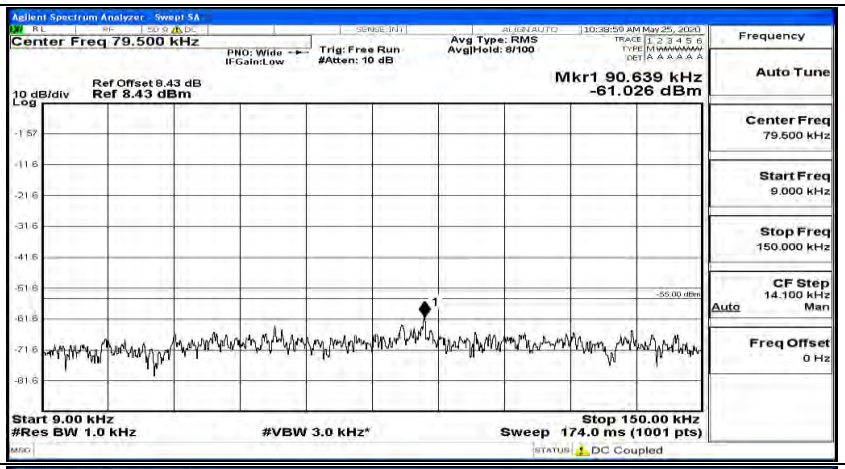


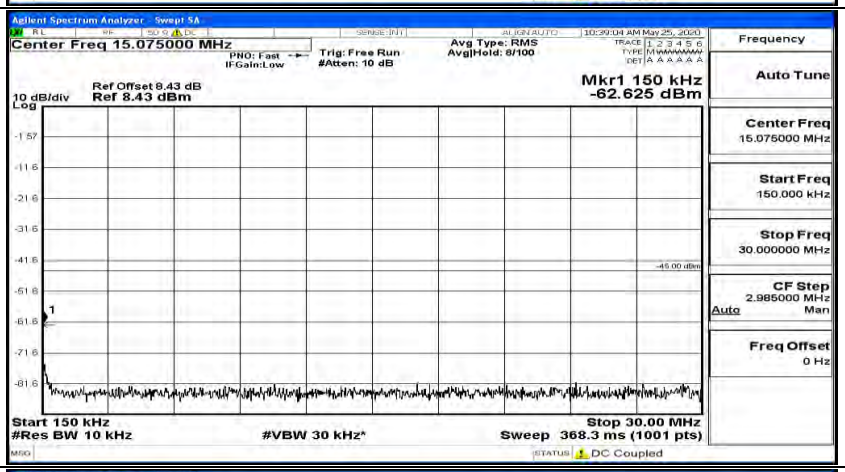
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

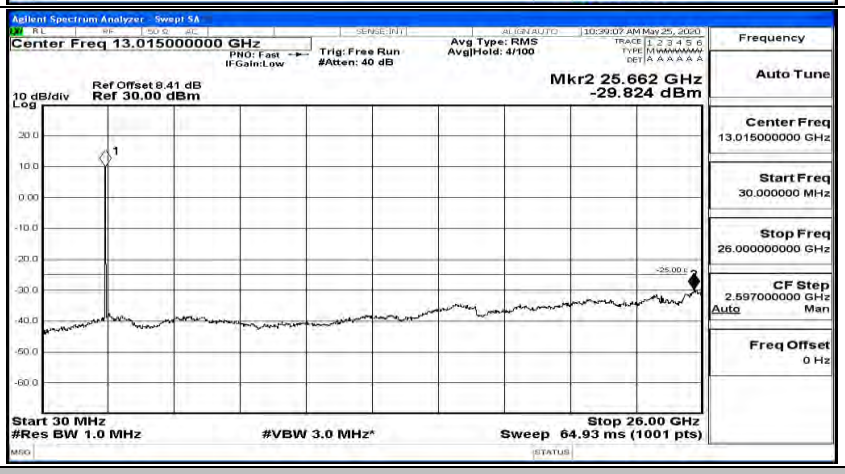




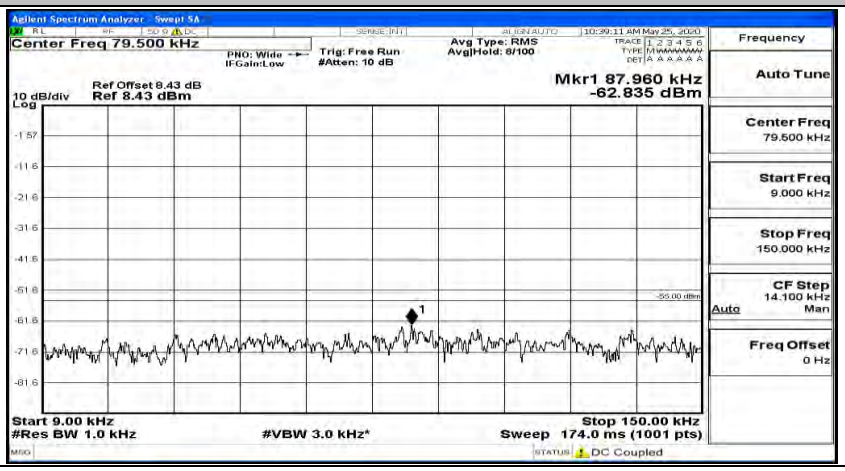
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

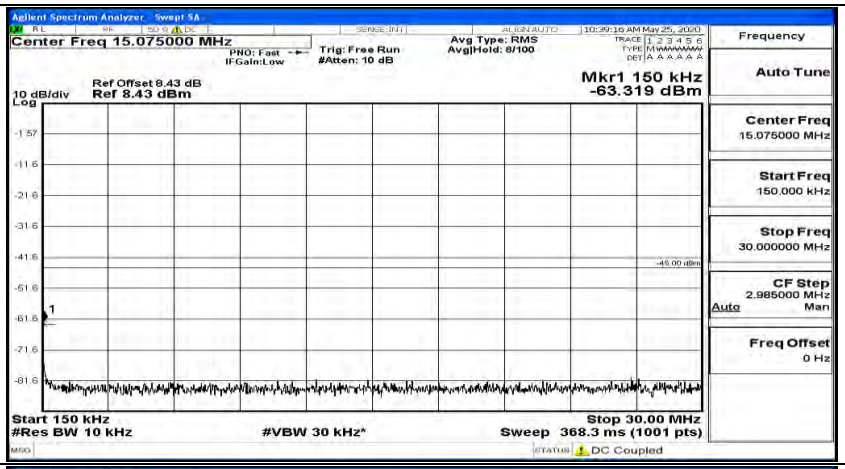


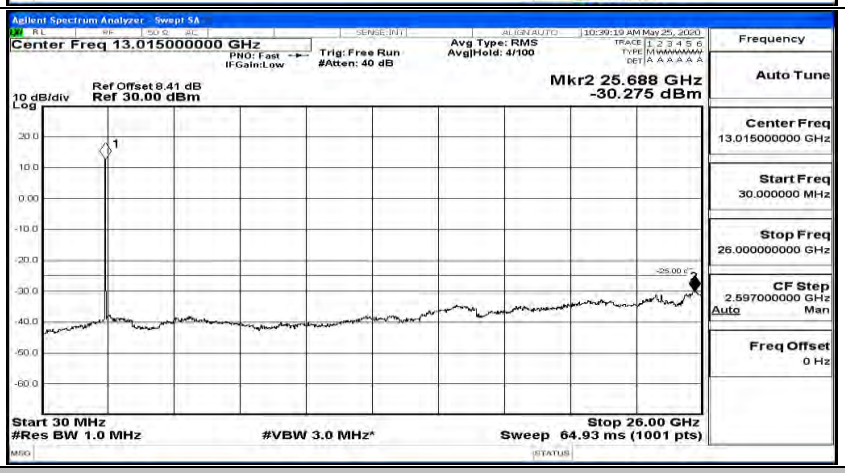




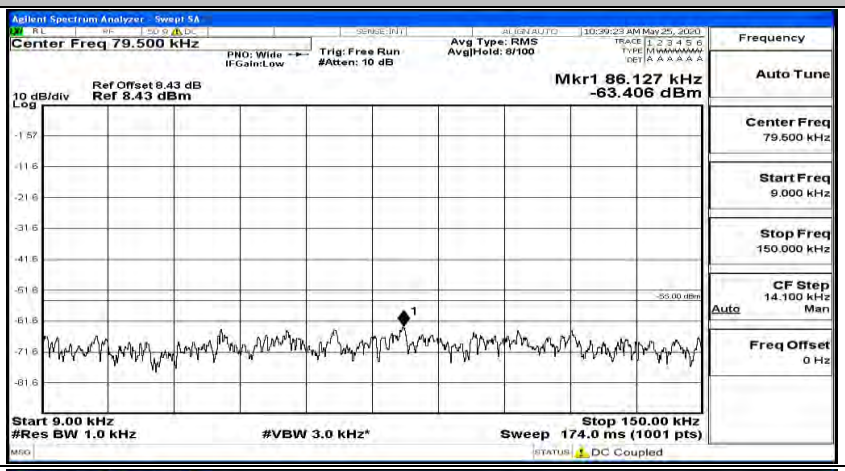
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

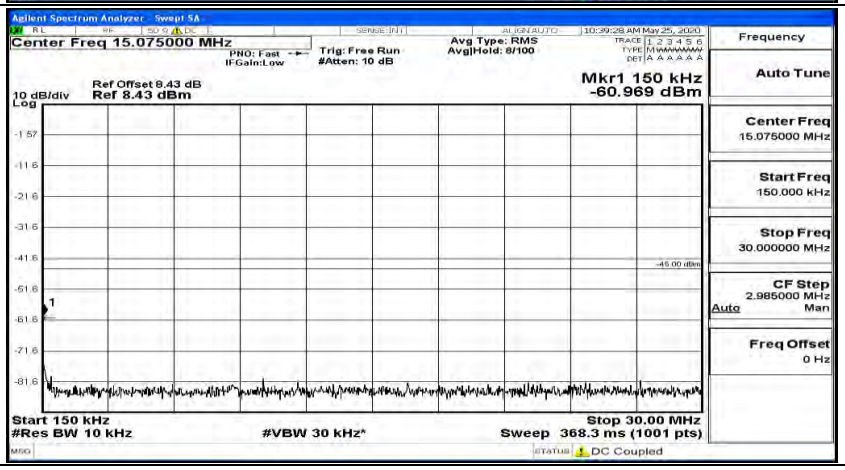


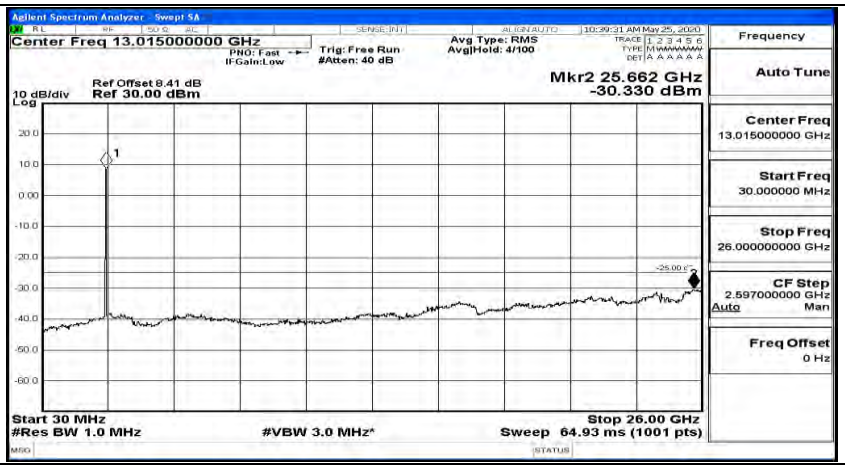




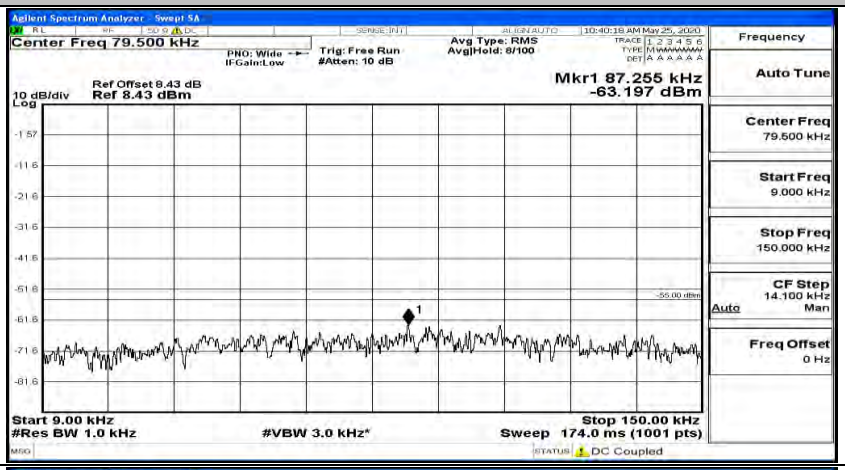
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

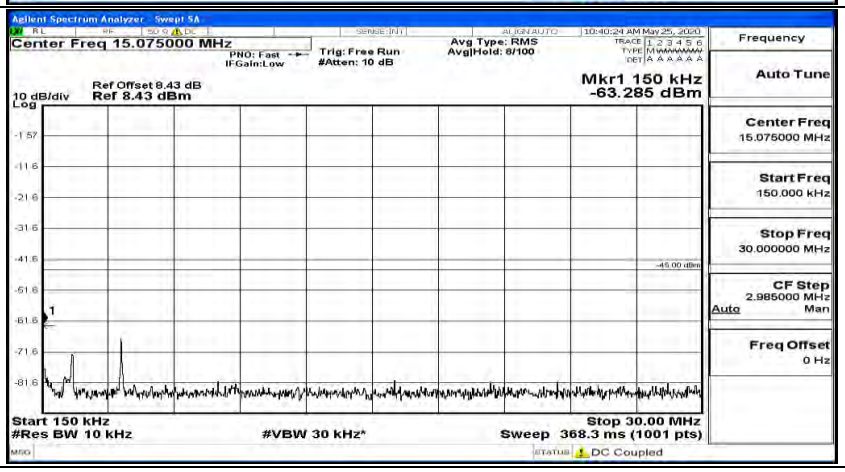




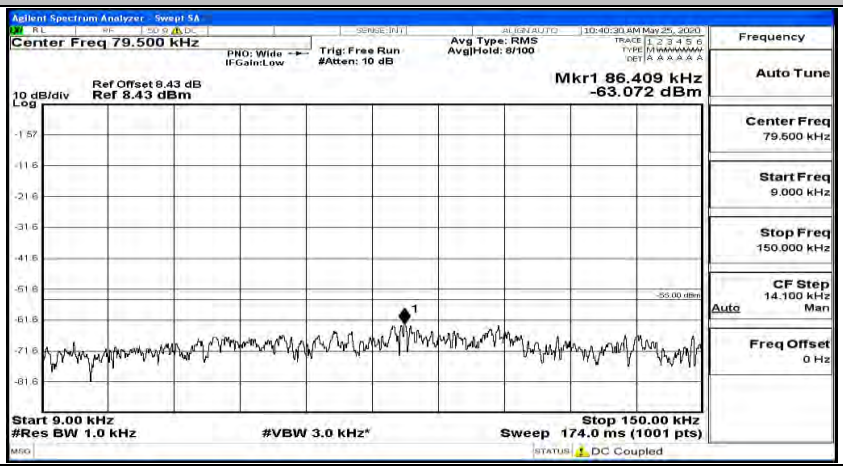


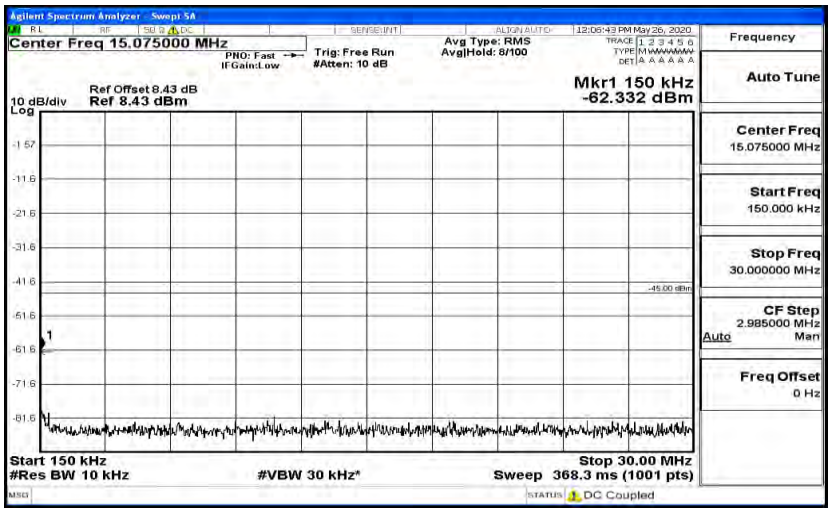
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

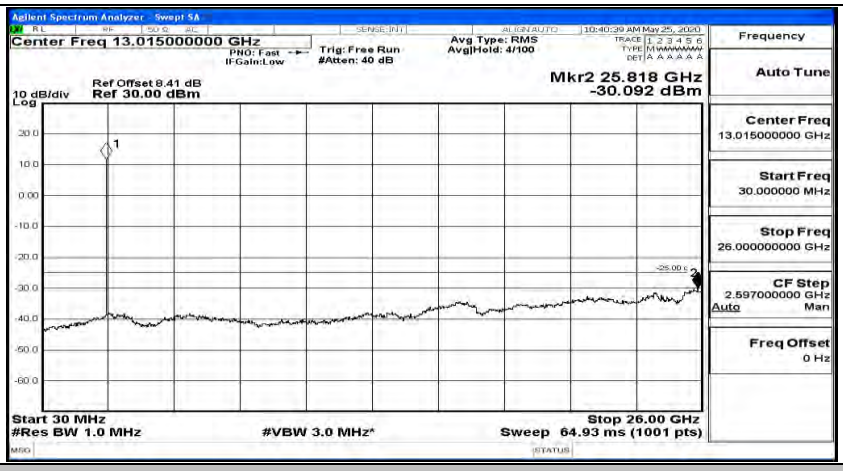




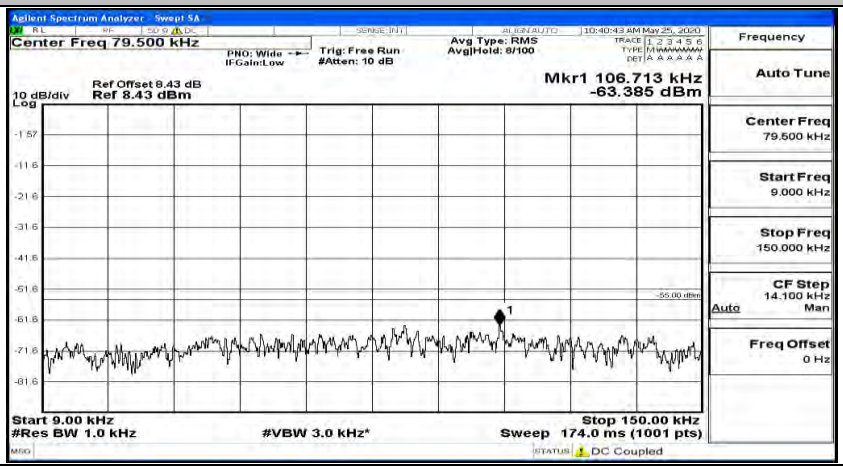
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24

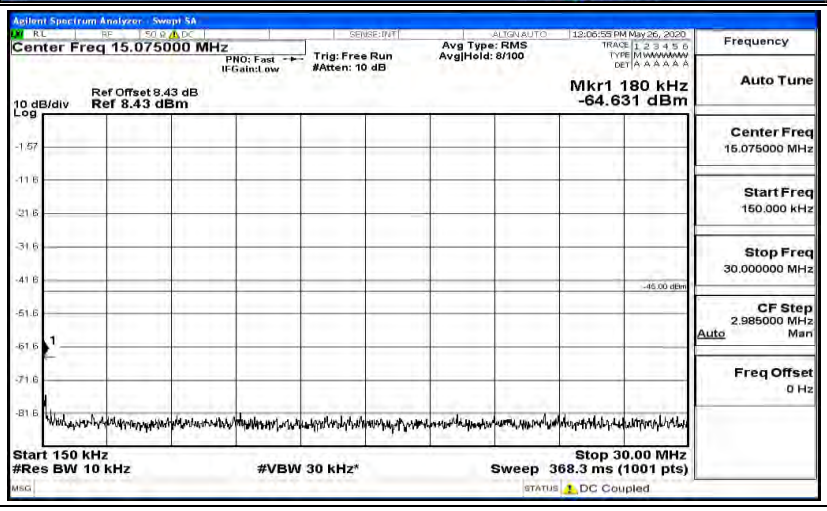


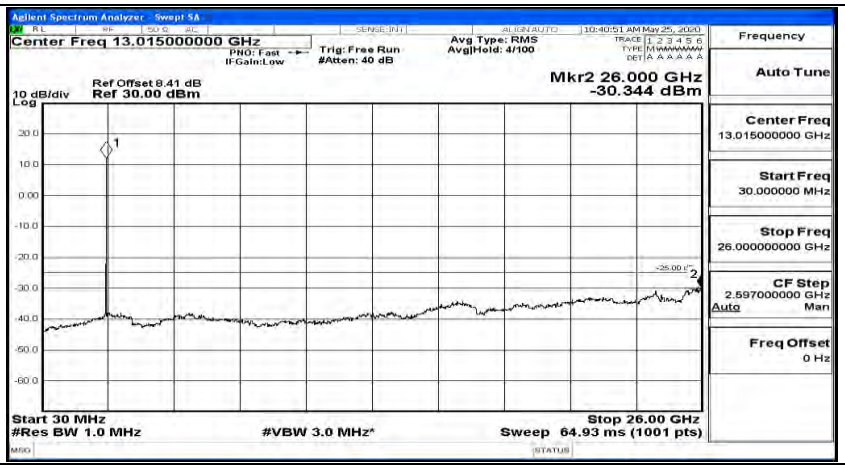


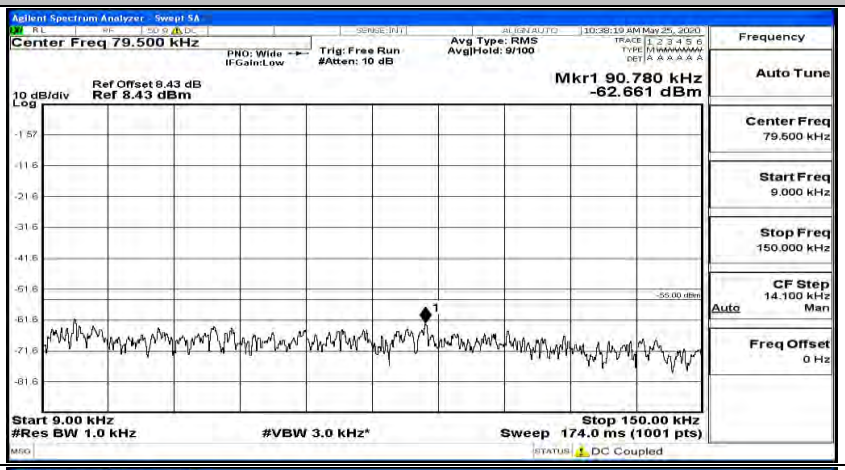
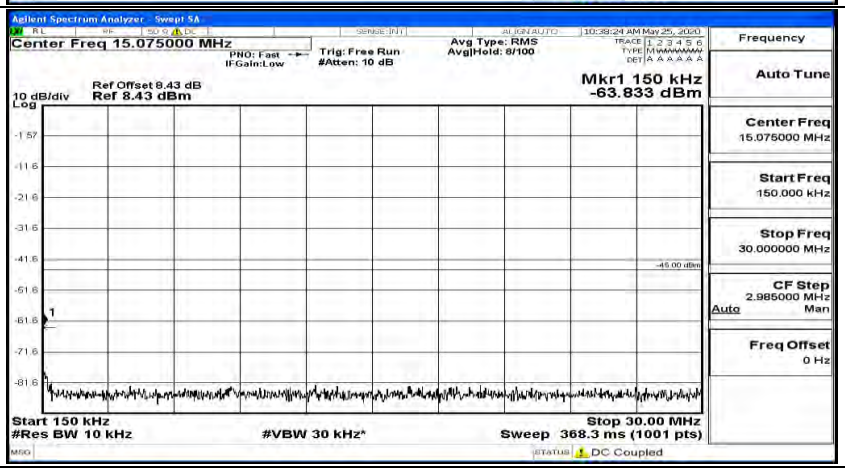


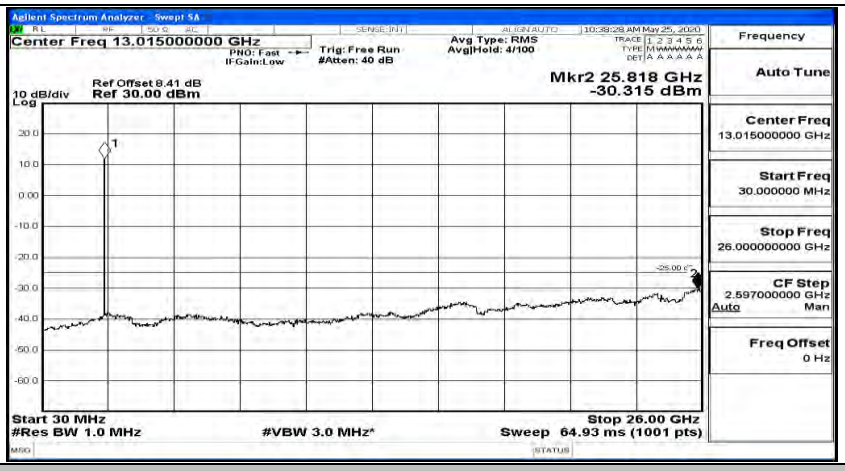
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



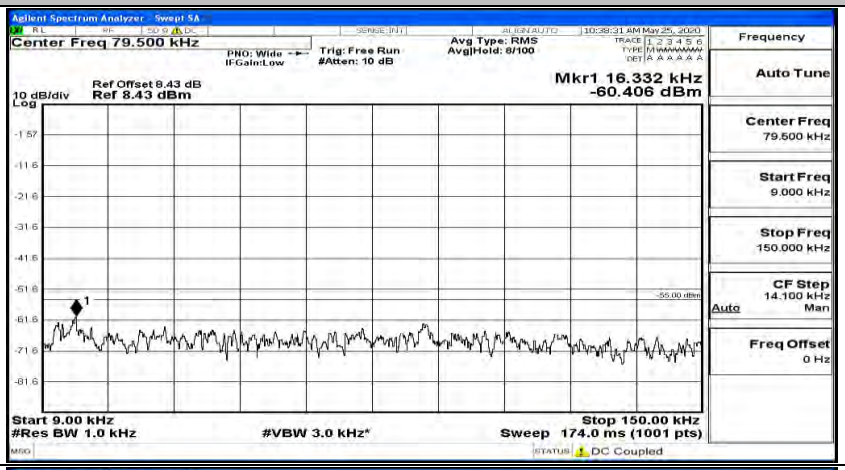


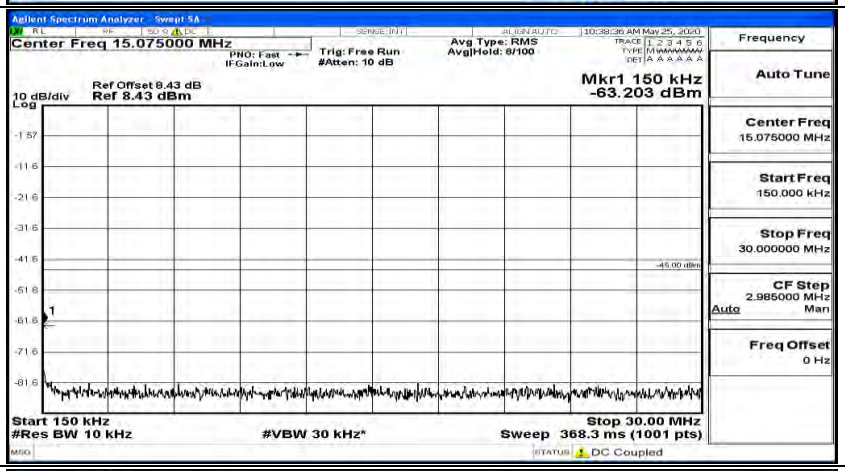


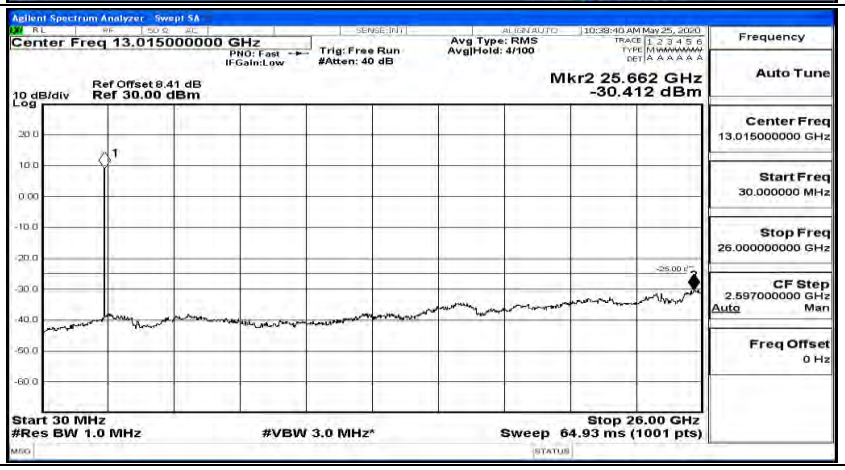
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0





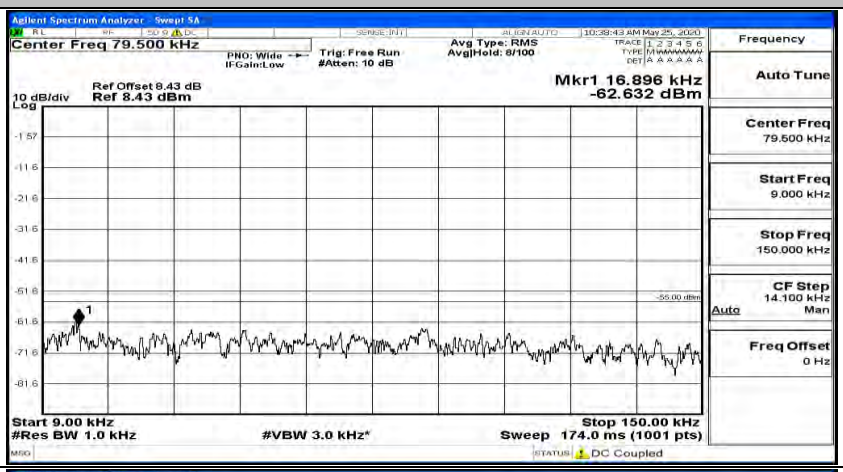
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

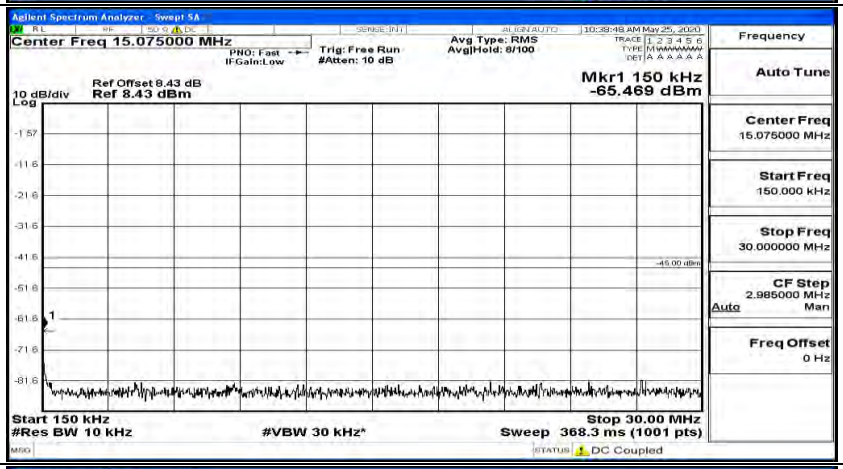


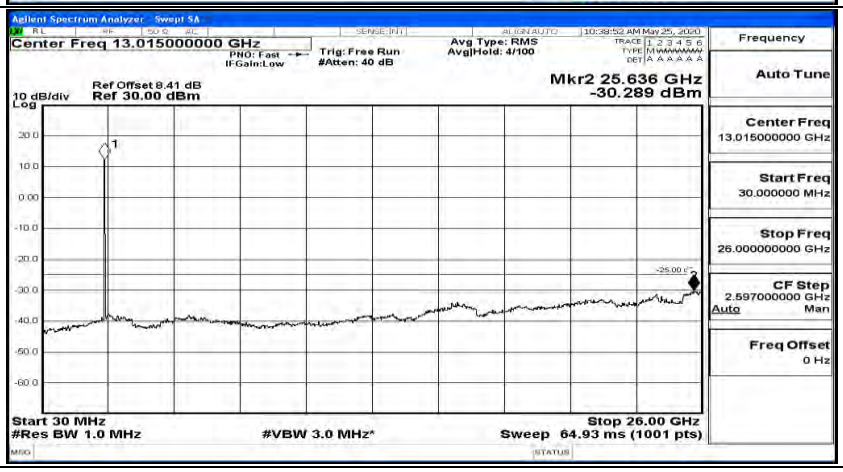




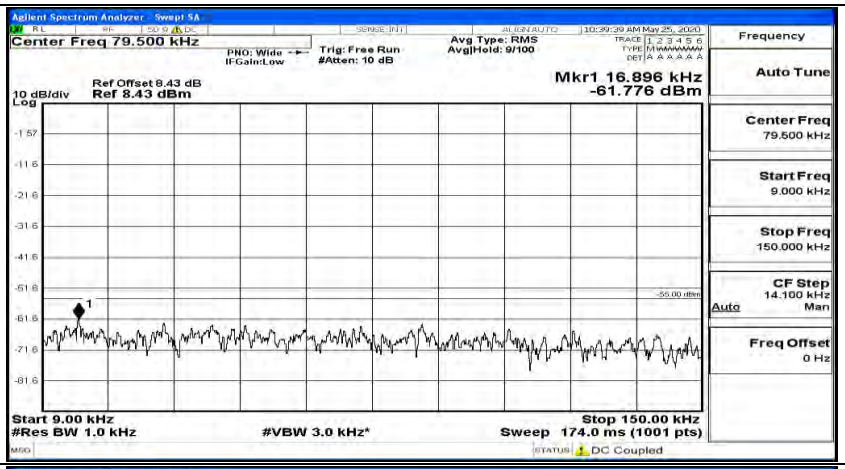
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

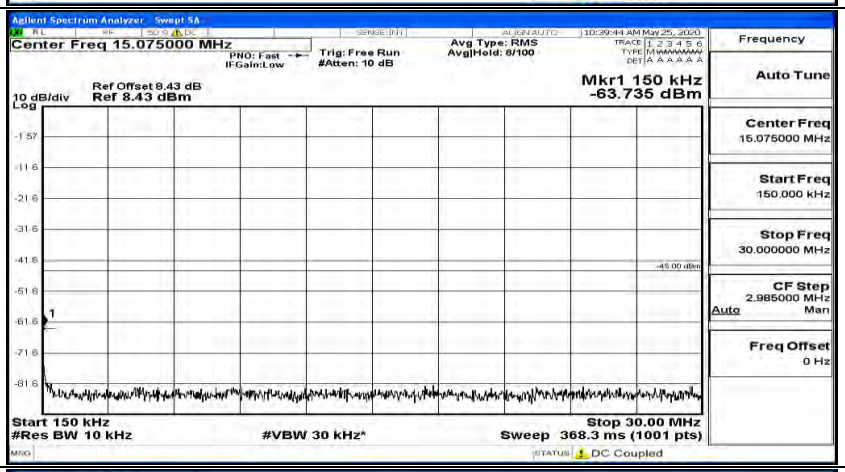


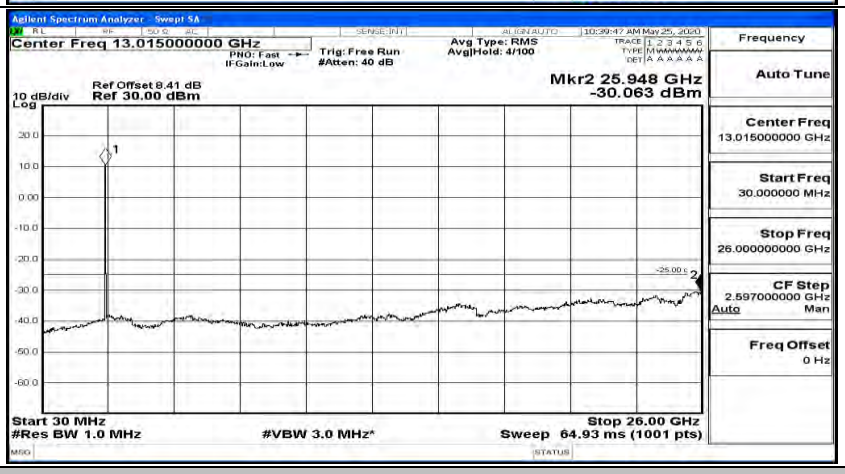




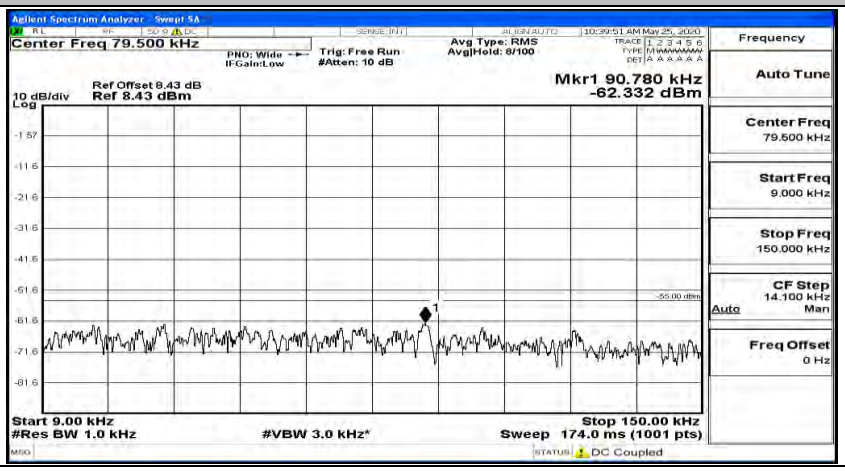
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

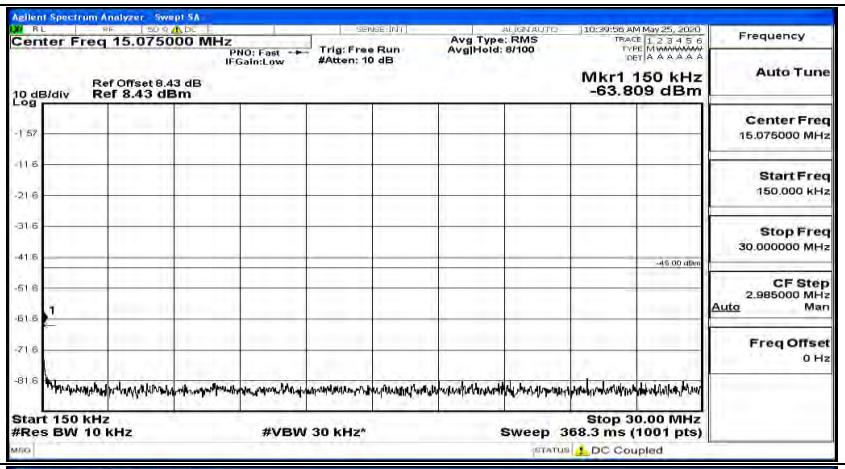




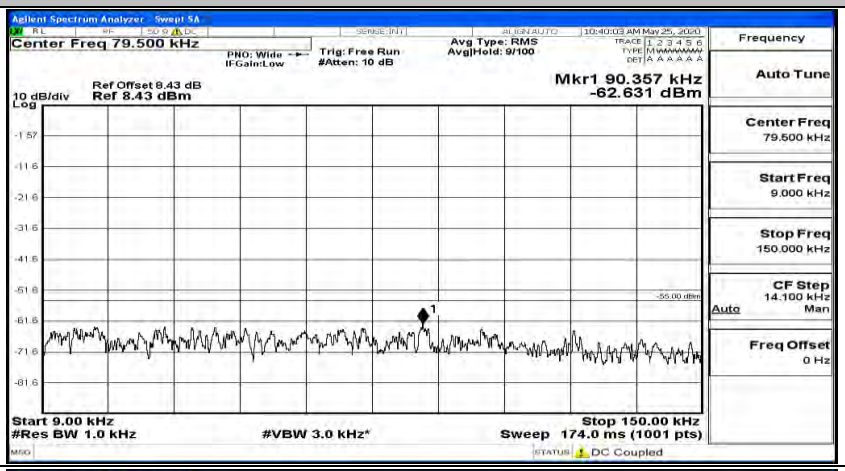


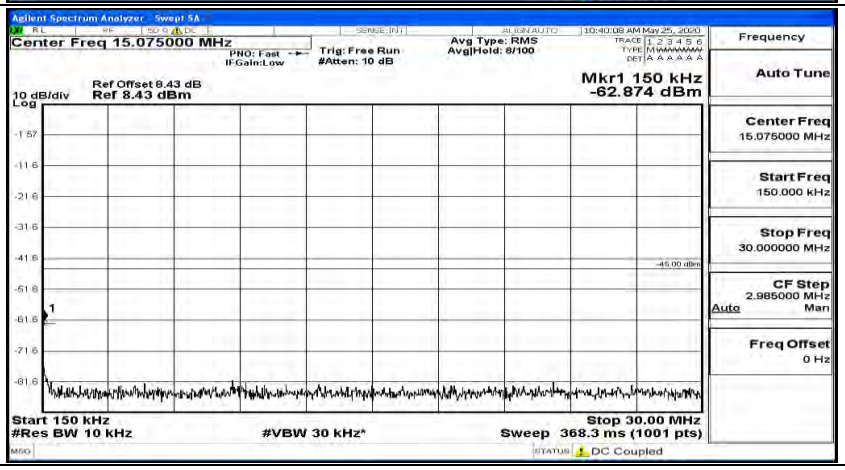
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

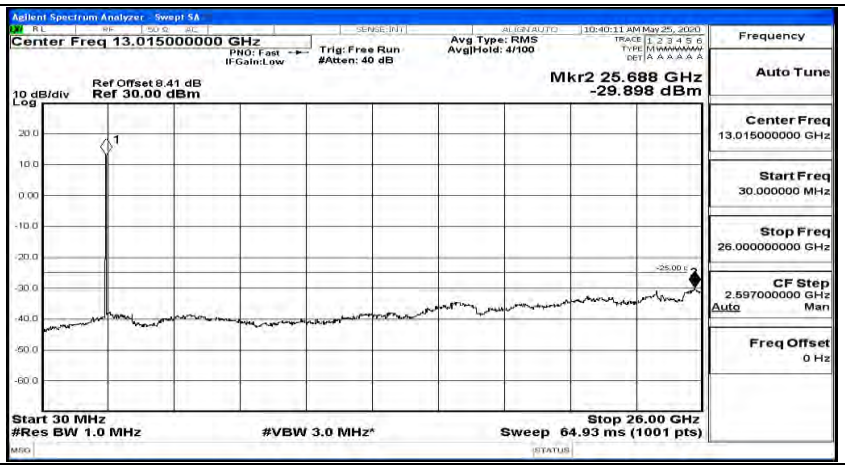


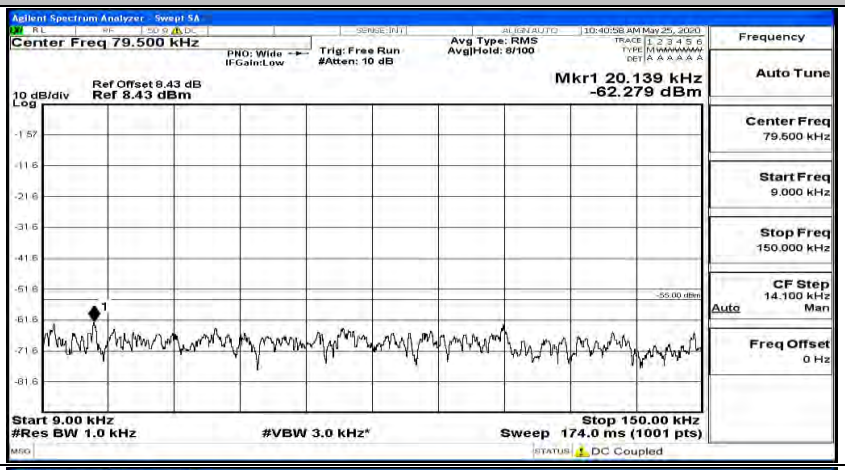
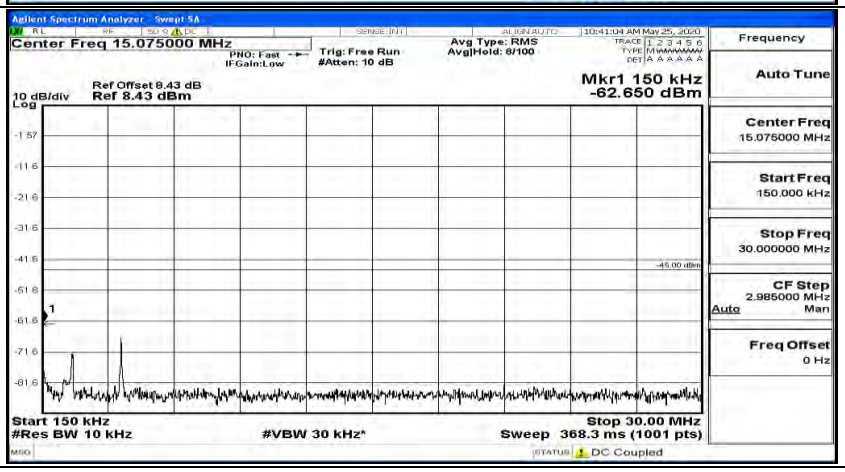


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

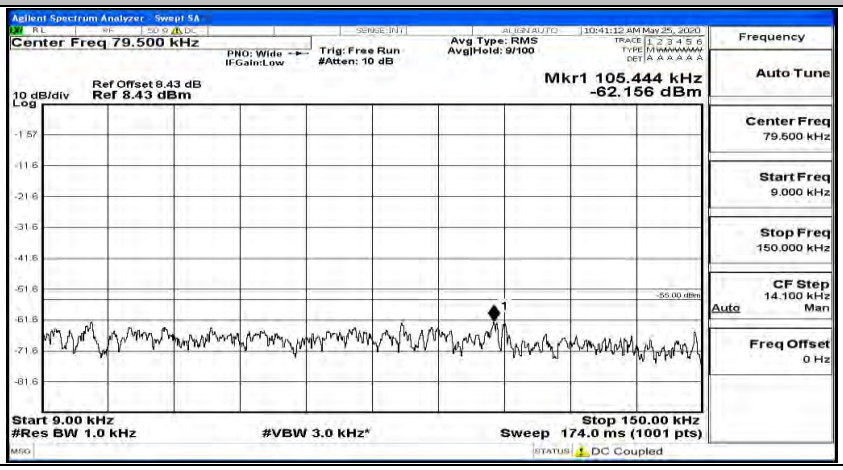






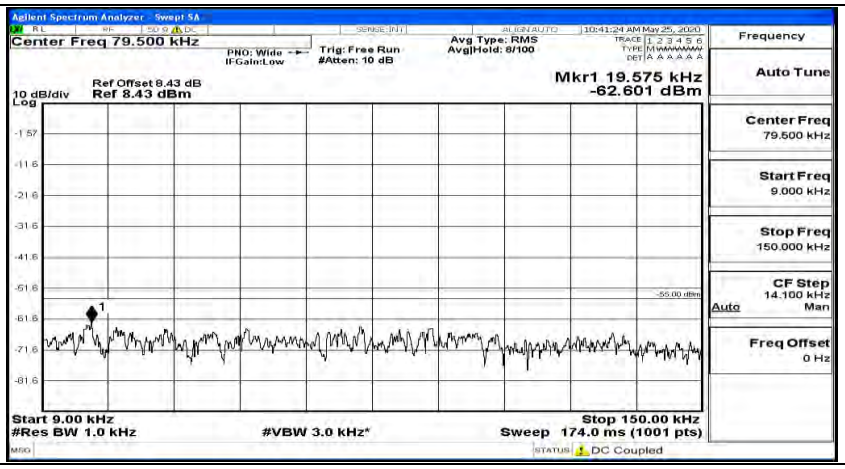
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



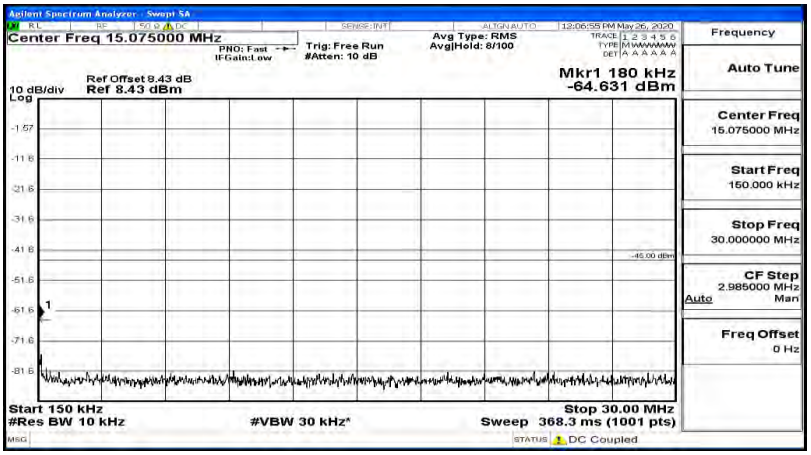
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

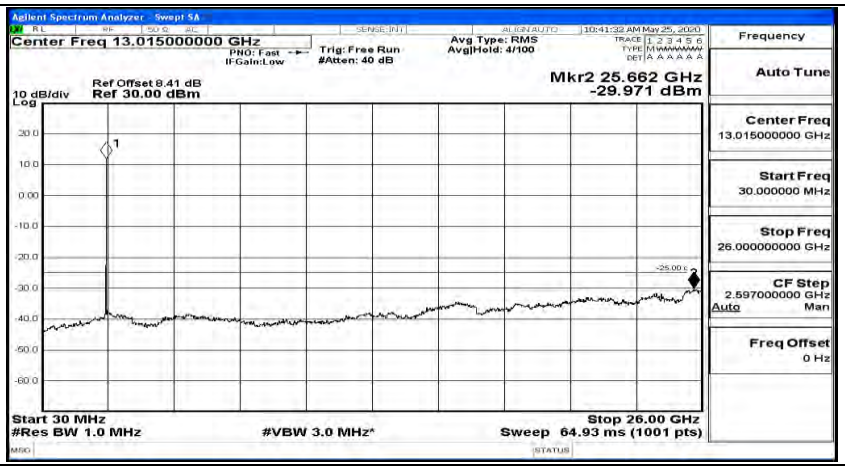


#Img-16QAM-H-10-1-M-CSE-2

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

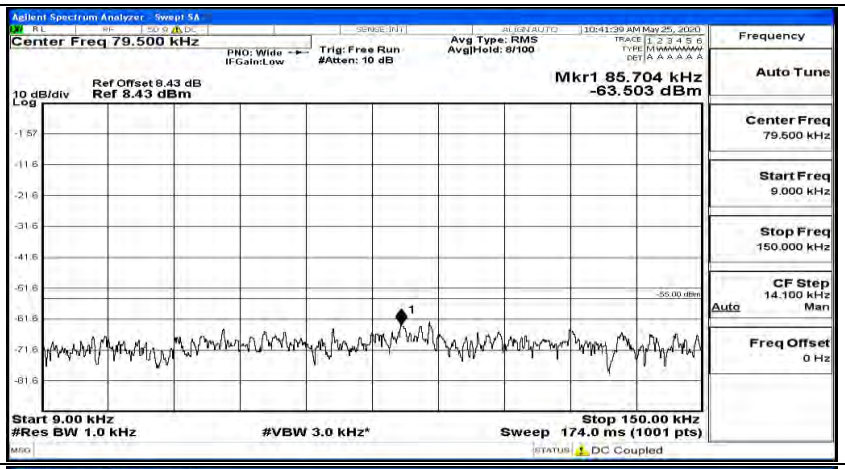


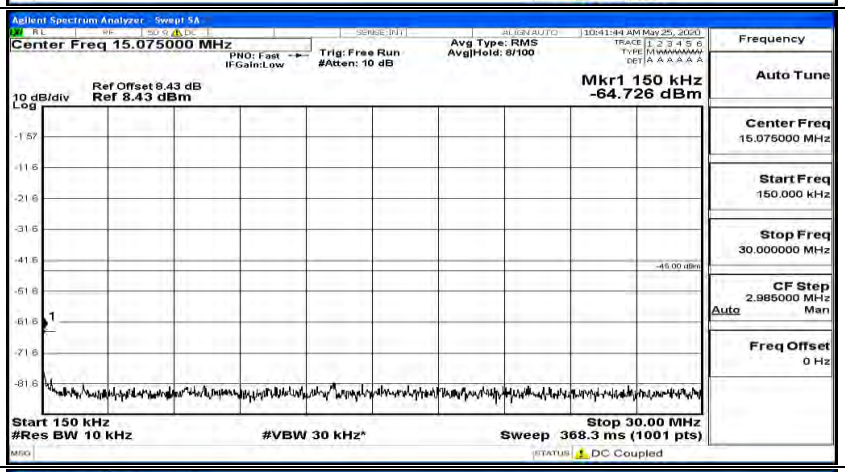


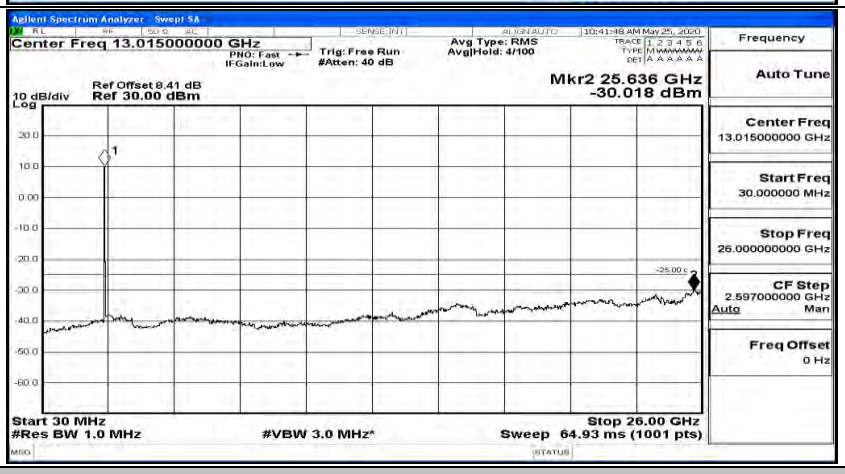


Channel Bandwidth: 15 MHz

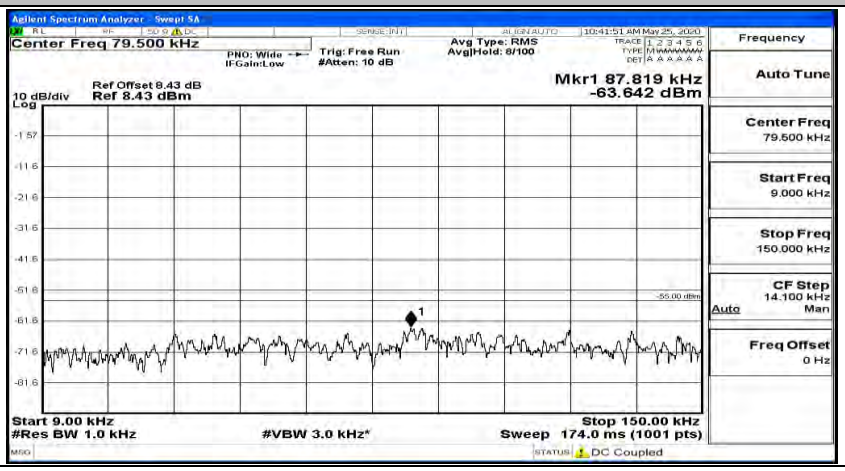
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0

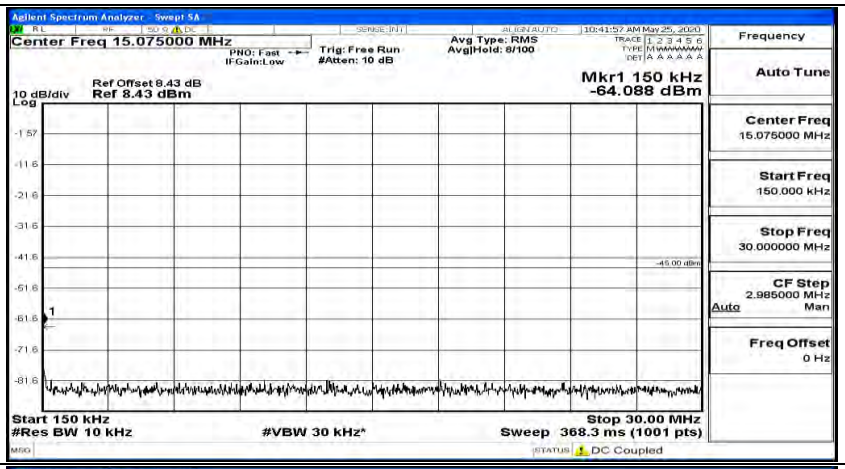


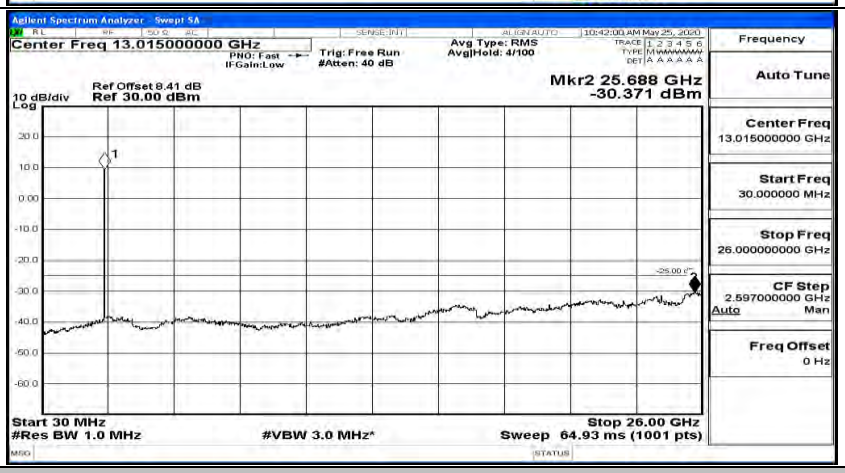




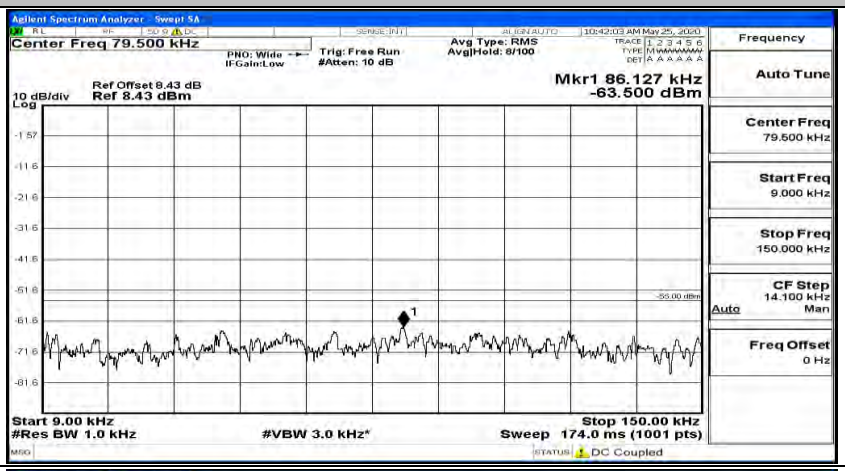
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37

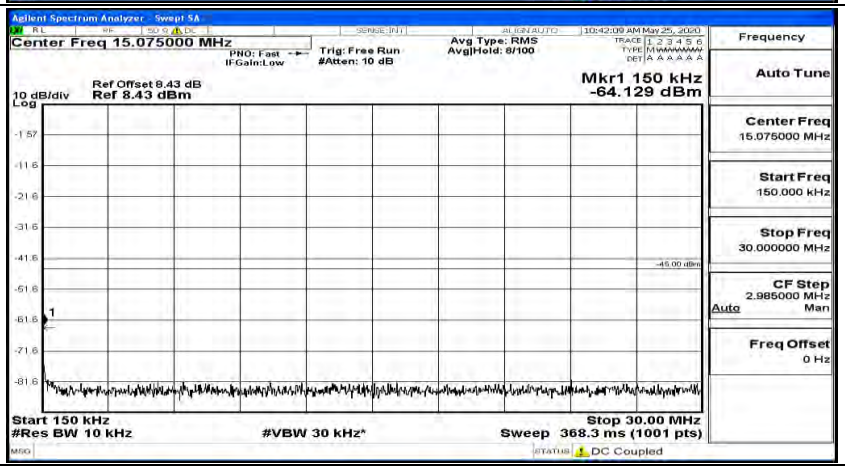




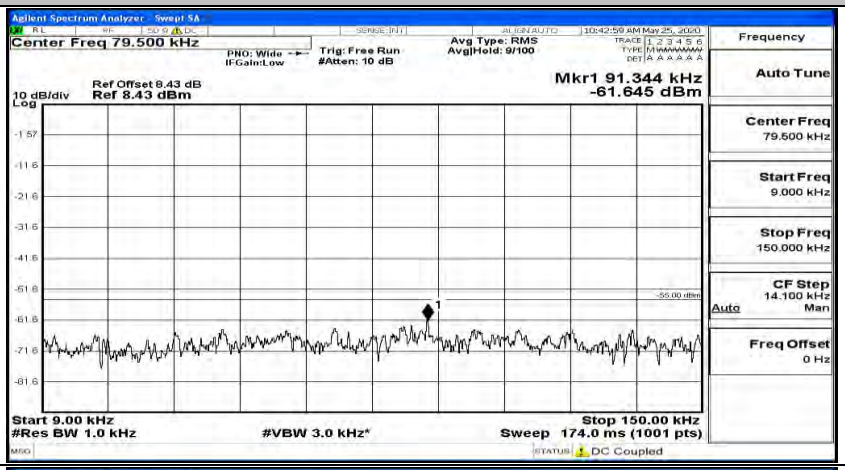


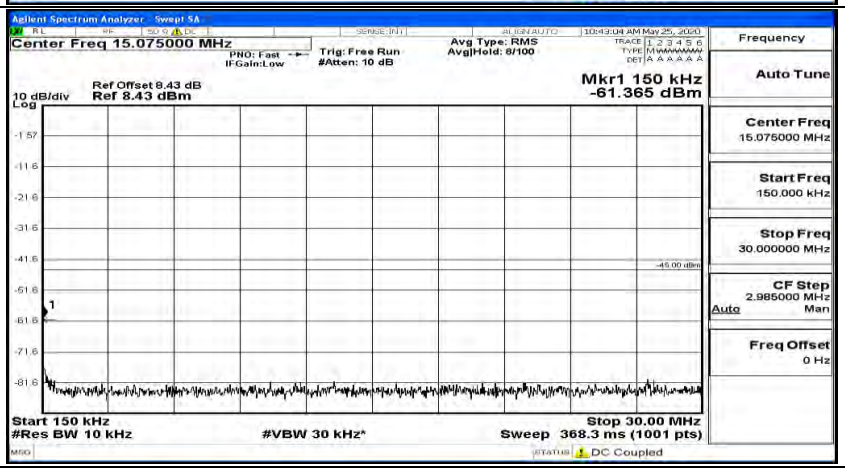
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74



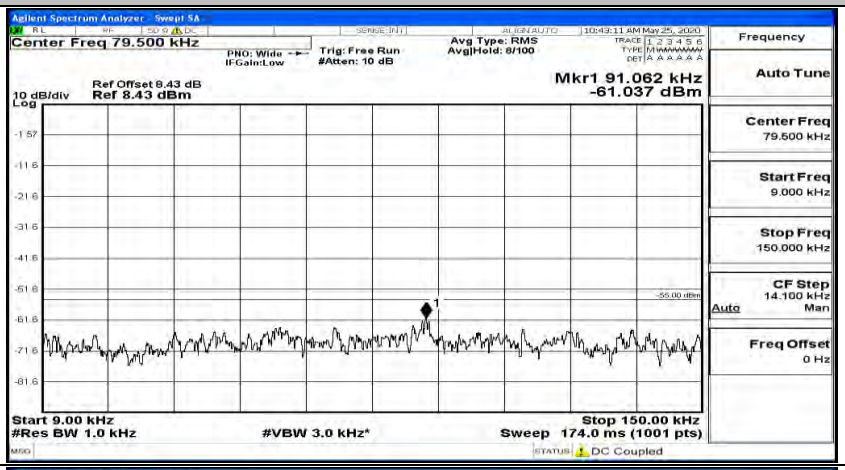


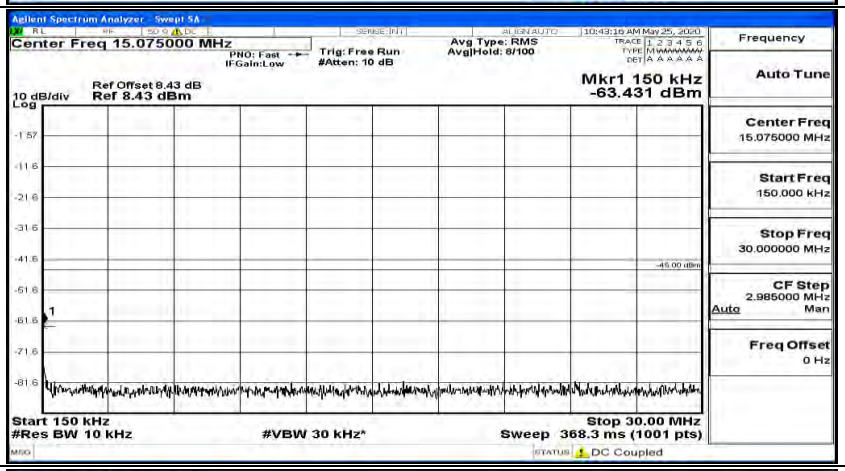
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

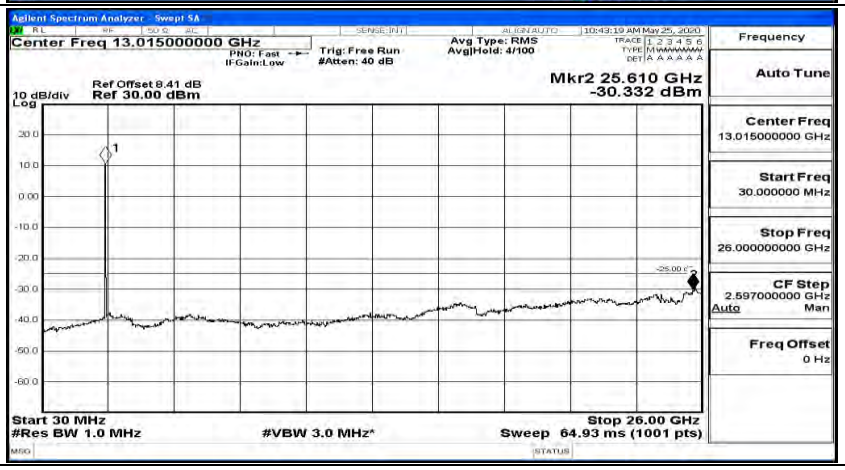




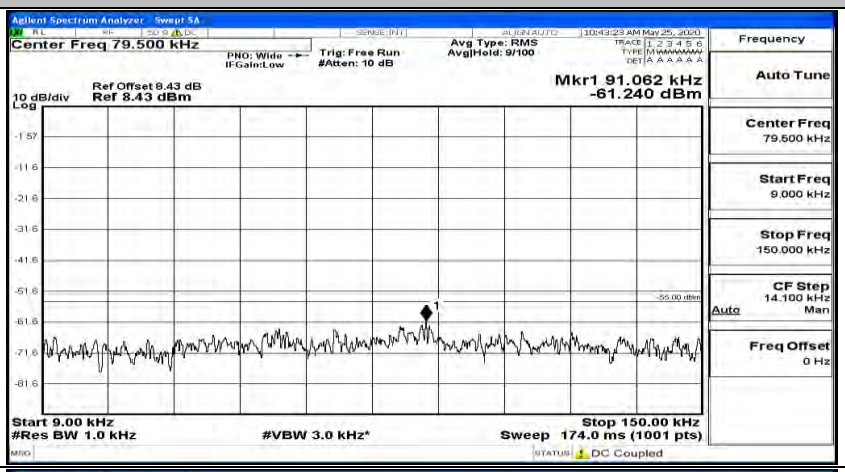
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

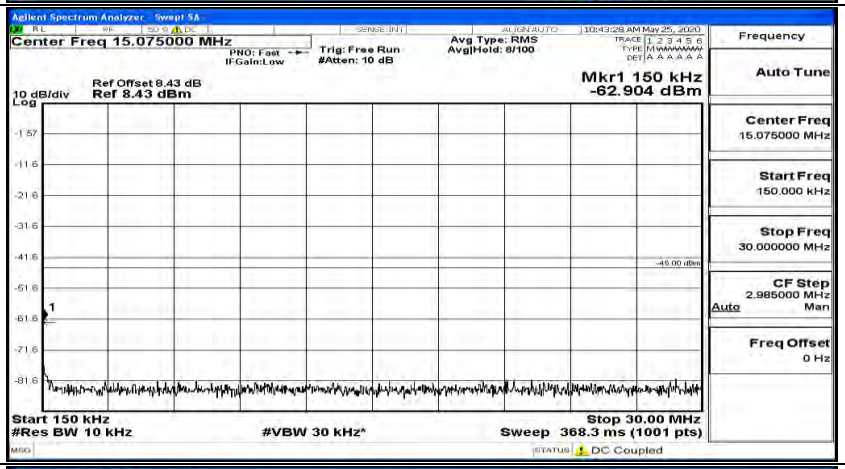


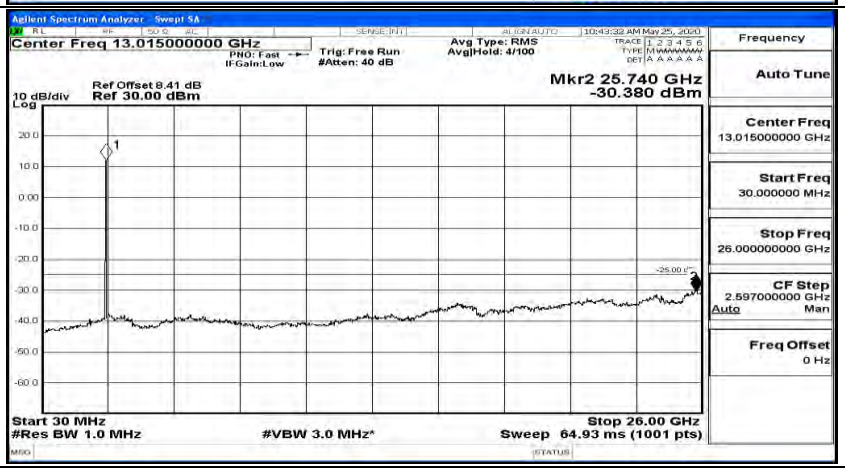




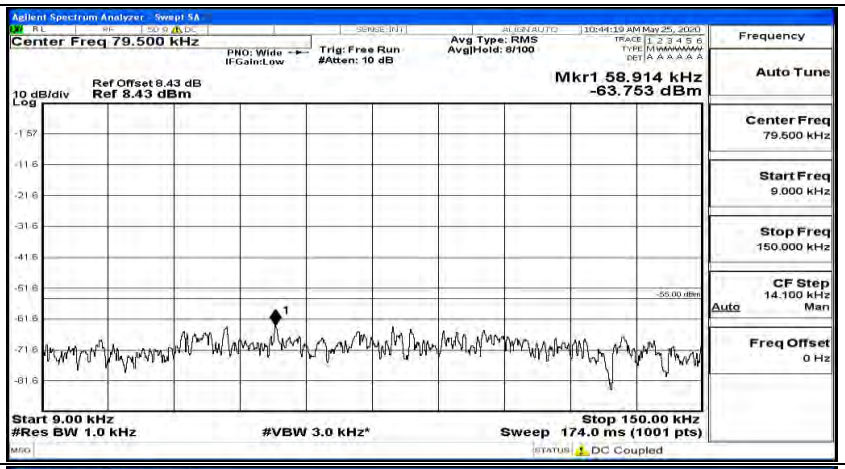
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74

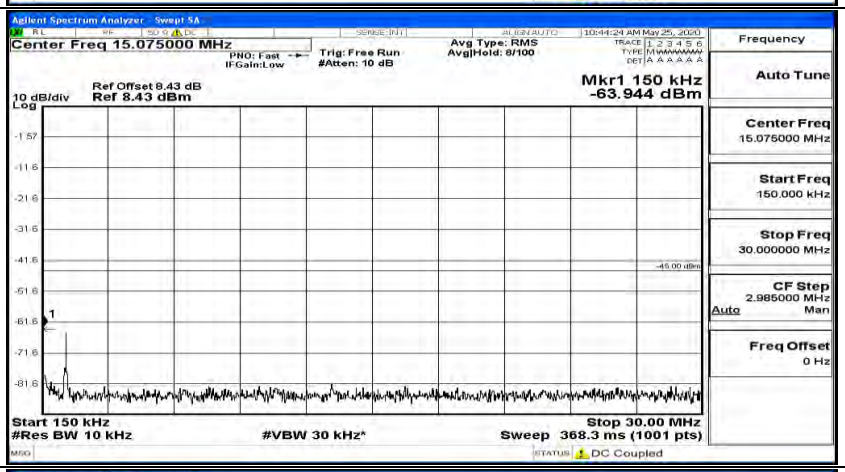


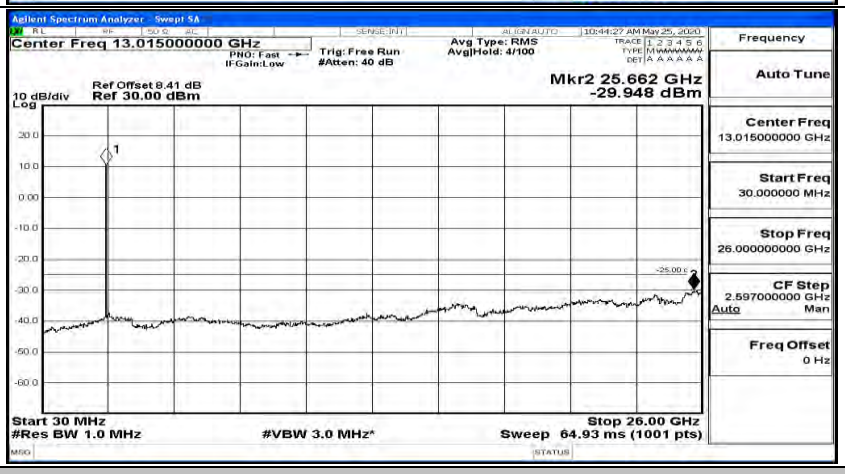




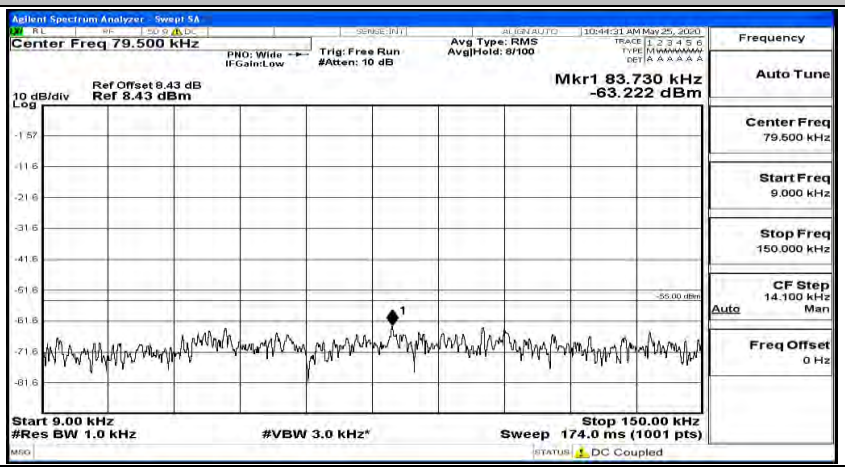
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

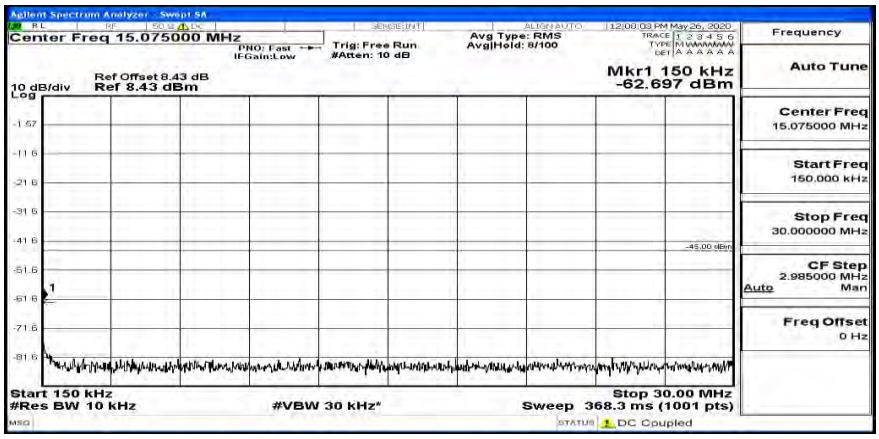




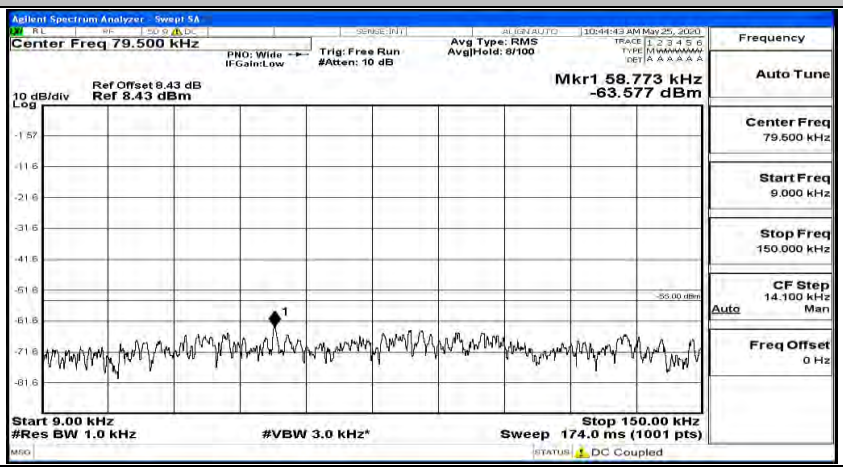


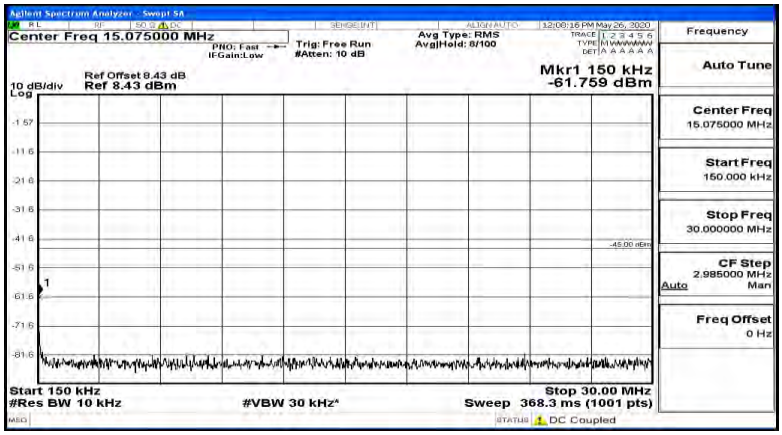
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

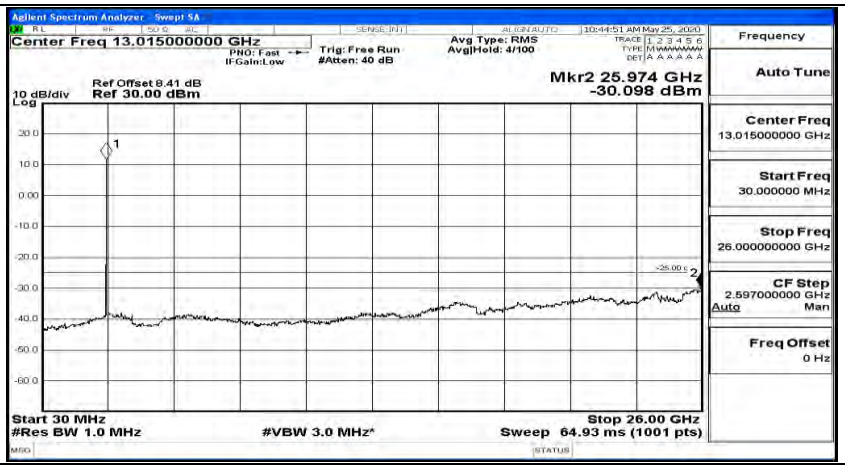




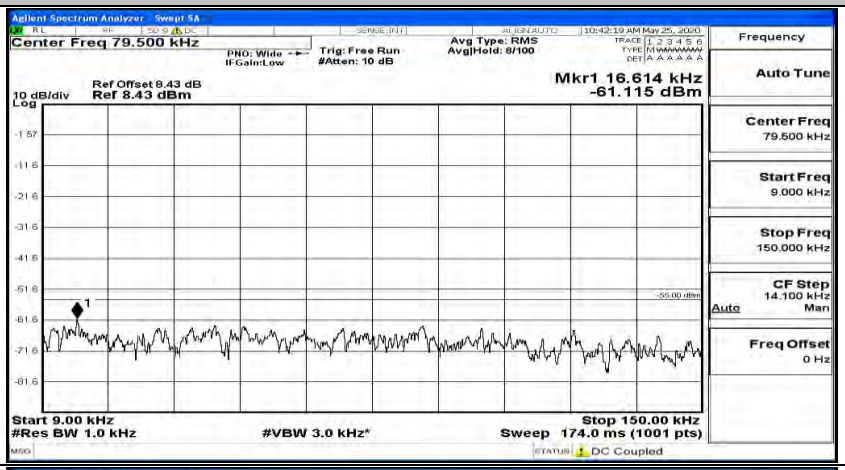
(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74

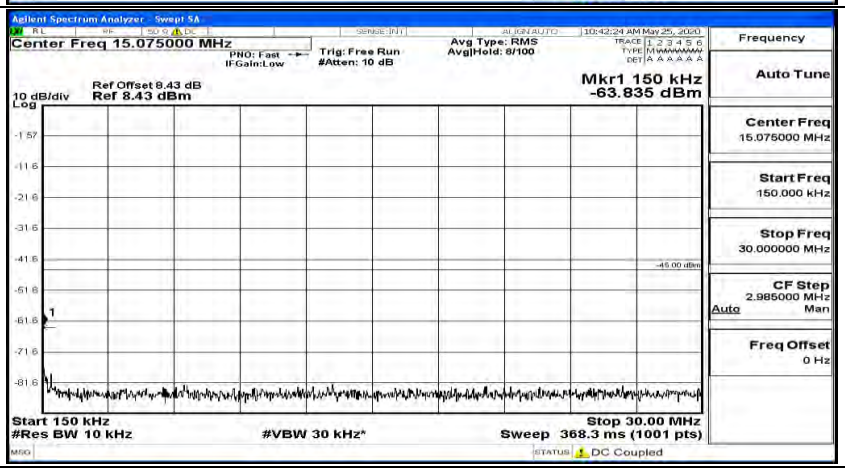




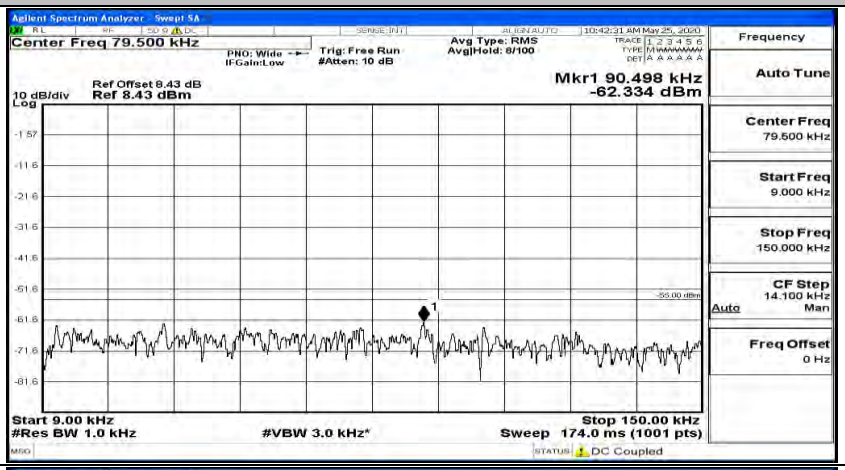


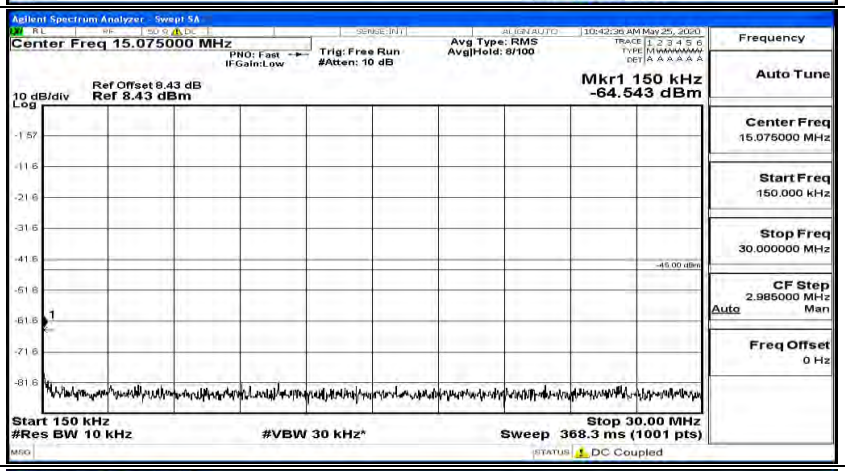
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0





(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37





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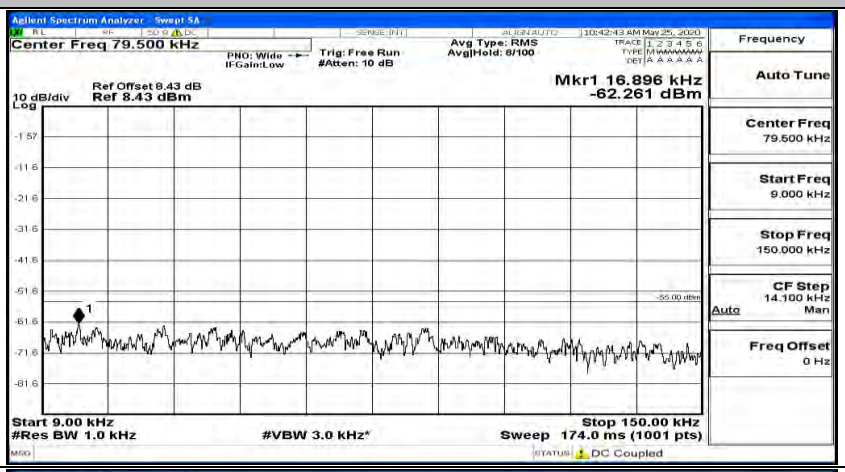
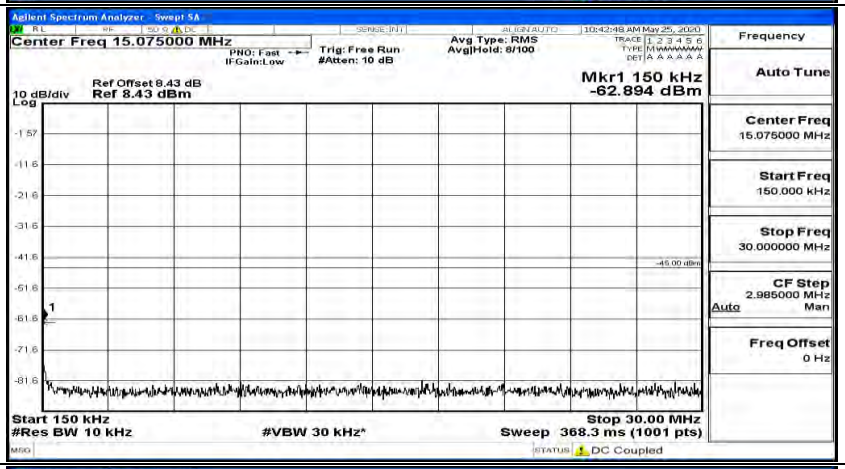
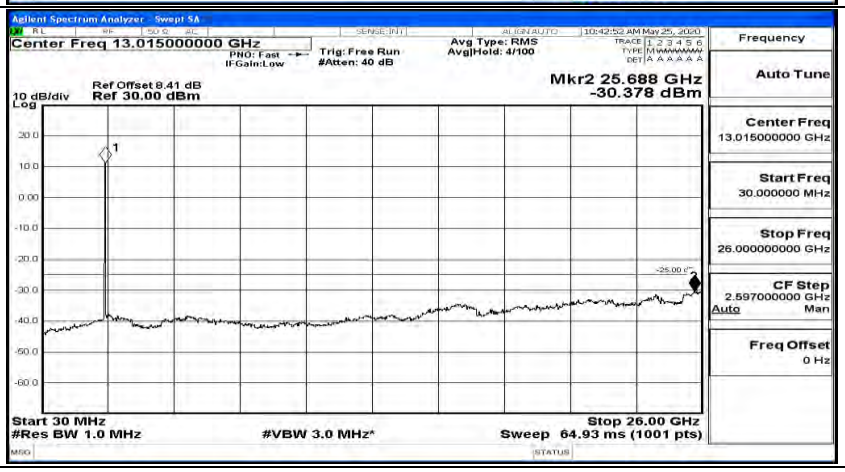
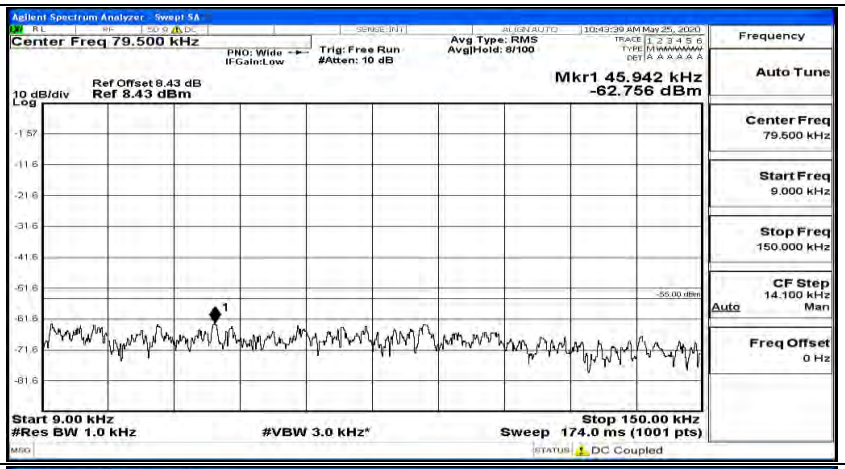
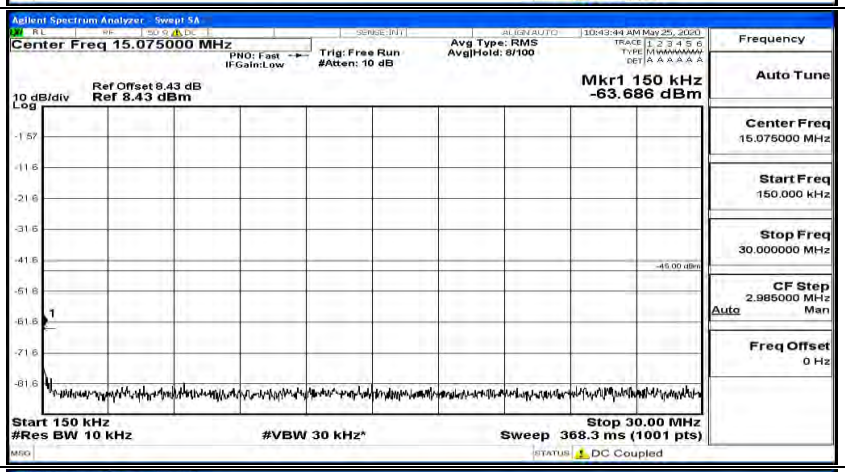


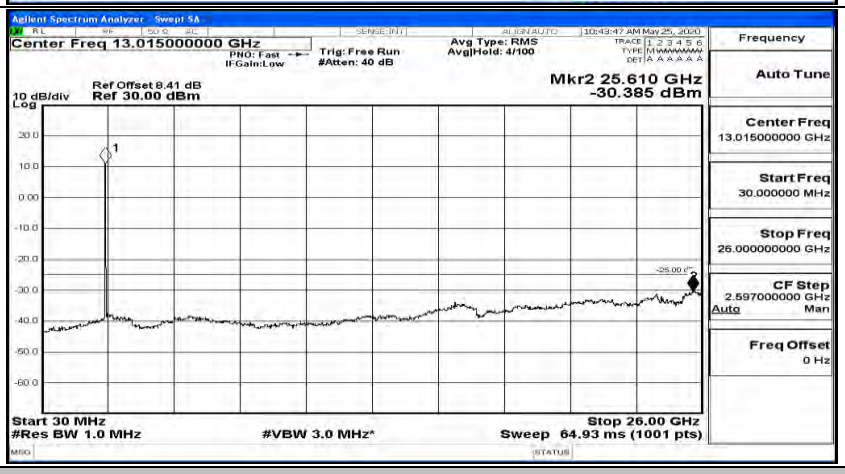
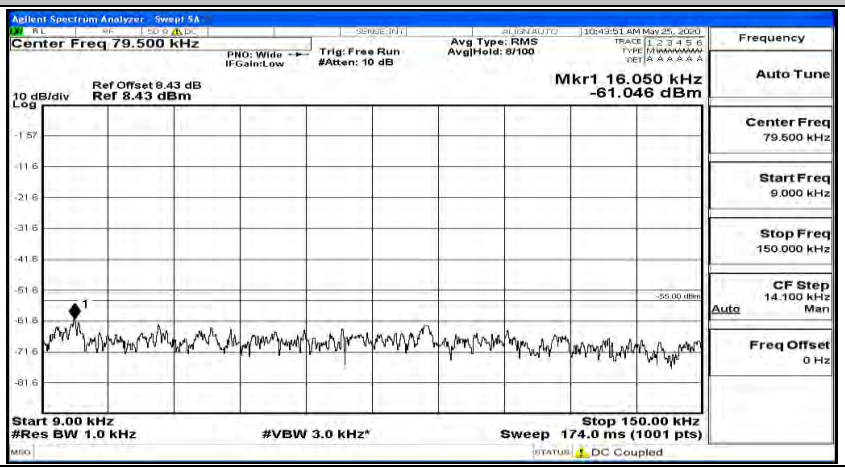




(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0







(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37