

Appendix F for LTE Band 5

Product Name: Tablet pc

Trade Mark: N/A

Test Model: 7LB1

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Tom.Liu

F.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.25	22.69	PASS
		1	3	23.24	22.71	PASS
		1	5	23.39	22.72	PASS
		3	0	23.34	22.50	PASS
		3	2	23.46	22.48	PASS
		3	3	23.35	22.28	PASS
		6	0	22.71	21.48	PASS
	MCH	1	0	23.63	22.79	PASS
		1	3	23.70	22.93	PASS
		1	5	23.59	22.74	PASS
		3	0	23.56	22.66	PASS
		3	2	23.51	22.68	PASS
		3	3	23.56	22.63	PASS
		6	0	22.50	21.38	PASS
	HCH	1	0	24.11	23.18	PASS
		1	3	24.32	23.12	PASS
		1	5	24.23	22.99	PASS
		3	0	23.92	23.21	PASS
		3	2	24.11	23.33	PASS
		3	3	24.03	23.19	PASS
		6	0	23.07	22.07	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.66	22.97	PASS
		1	7	23.70	23.05	PASS
		1	14	23.89	23.37	PASS
		8	0	22.69	21.76	PASS
		8	4	22.84	21.79	PASS
		8	7	22.72	22.00	PASS
		15	0	22.80	21.81	PASS
	MCH	1	0	23.70	22.43	PASS
		1	7	23.88	22.84	PASS
		1	14	23.64	22.71	PASS
		8	0	22.76	21.69	PASS
		8	4	22.74	21.74	PASS
		8	7	22.73	21.71	PASS
		15	0	22.65	21.86	PASS
	HCH	1	0	23.77	23.14	PASS
		1	7	24.12	23.27	PASS
		1	14	24.08	23.18	PASS
		8	0	23.00	22.43	PASS
		8	4	23.11	22.40	PASS
		8	7	23.11	22.29	PASS
		15	0	23.13	21.98	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.72	22.29	PASS
		1	12	24.37	22.67	PASS
		1	24	24.05	22.08	PASS
		12	0	22.68	21.65	PASS
		12	6	22.86	21.83	PASS
		12	13	22.71	21.77	PASS
		25	0	22.74	21.89	PASS
	MCH	1	0	23.44	22.27	PASS
		1	12	24.14	22.75	PASS
		1	24	23.80	22.63	PASS
		12	0	22.64	21.72	PASS
		12	6	22.75	21.62	PASS
		12	13	22.74	21.64	PASS
		25	0	22.65	21.81	PASS
	HCH	1	0	23.84	22.64	PASS
		1	12	24.43	22.91	PASS
		1	24	24.01	22.64	PASS
		12	0	22.90	22.13	PASS
		12	6	23.05	22.14	PASS
		12	13	23.04	21.87	PASS
		25	0	23.03	22.20	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.43	22.47	PASS
		1	24	24.50	23.58	PASS
		1	49	23.40	22.67	PASS
		25	0	22.74	21.82	PASS
		25	12	22.82	21.81	PASS
		25	25	22.67	21.62	PASS
		50	0	22.67	21.81	PASS
	MCH	1	0	23.66	23.09	PASS
		1	24	24.10	23.39	PASS
		1	49	23.65	23.10	PASS
		25	0	22.79	21.65	PASS
		25	12	22.91	21.89	PASS
		25	25	22.84	21.73	PASS
		50	0	22.79	21.70	PASS
	HCH	1	0	23.86	22.58	PASS
		1	24	24.05	22.67	PASS
		1	49	23.53	23.08	PASS
		25	0	22.81	21.81	PASS
		25	12	22.77	21.79	PASS
		25	25	22.86	21.87	PASS
		50	0	22.87	21.95	PASS

F.2 Peak-to-Average Ratio

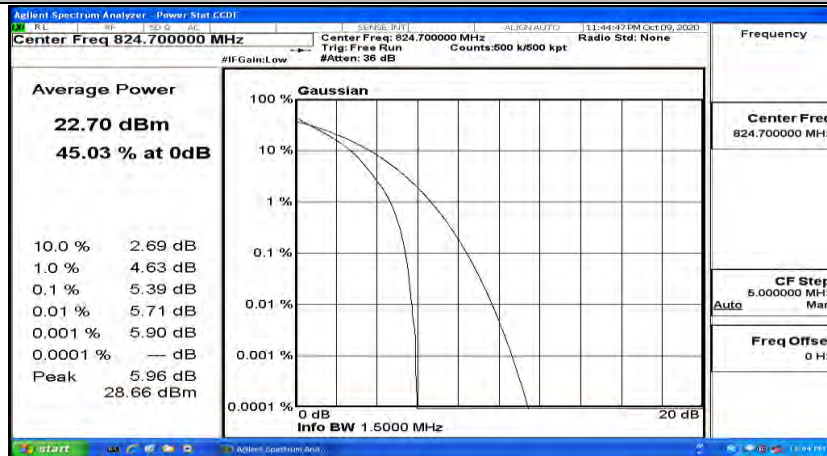
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.39	<13	PASS
	MCH	5.32	<13	PASS
	HCH	4.79	<13	PASS
16QAM	LCH	6.36	<13	PASS
	MCH	6.17	<13	PASS
	HCH	5.63	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.36	<13	PASS
	MCH	5.32	<13	PASS
	HCH	4.89	<13	PASS
16QAM	LCH	6.27	<13	PASS
	MCH	6.13	<13	PASS
	HCH	5.75	<13	PASS

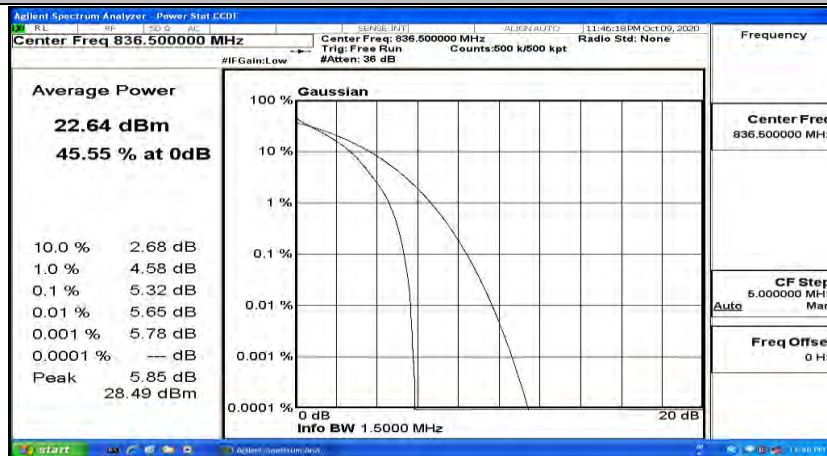
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.25	<13	PASS
	MCH	5.24	<13	PASS
	HCH	4.91	<13	PASS
16QAM	LCH	6.01	<13	PASS
	MCH	6.08	<13	PASS
	HCH	5.67	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.01	<13	PASS
	MCH	5.25	<13	PASS
	HCH	4.98	<13	PASS
16QAM	LCH	5.88	<13	PASS
	MCH	6.03	<13	PASS
	HCH	5.87	<13	PASS

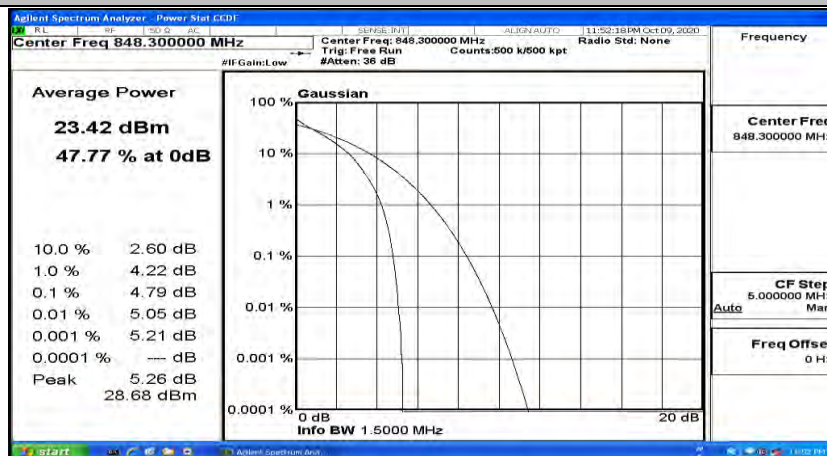
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



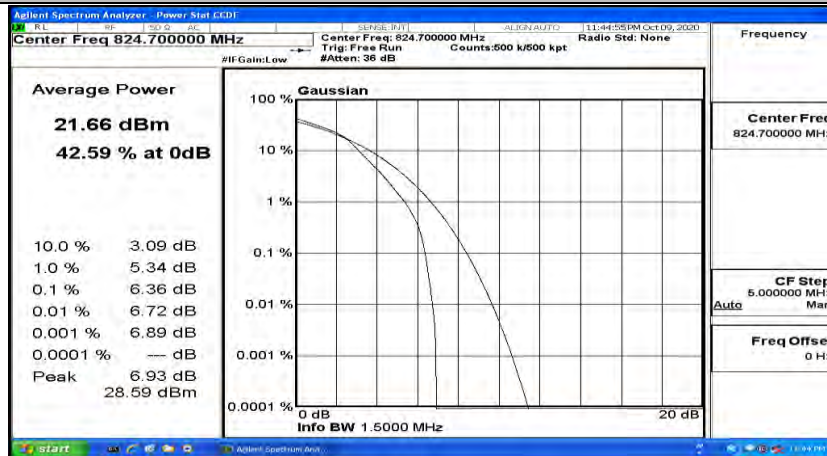
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



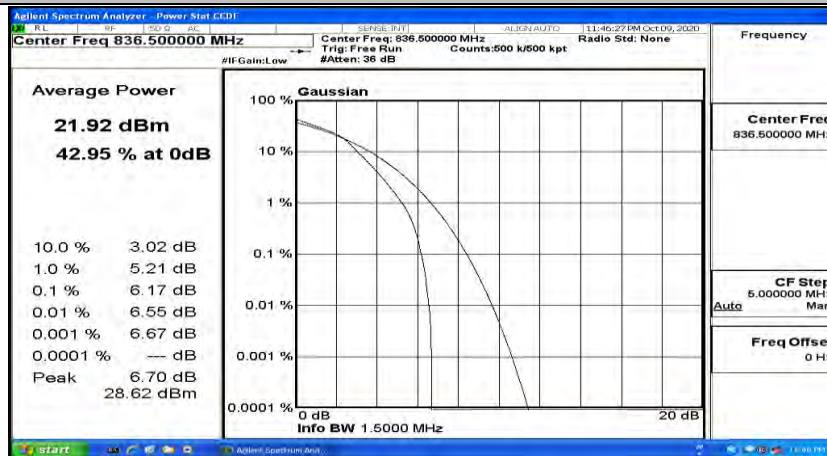
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



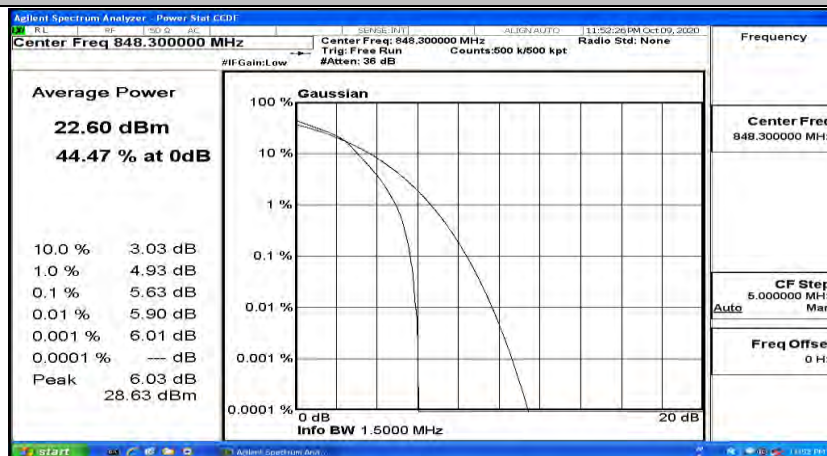
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



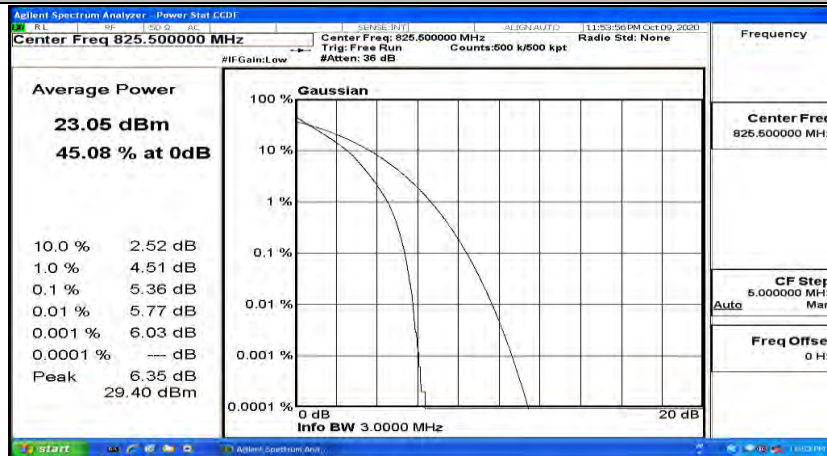
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



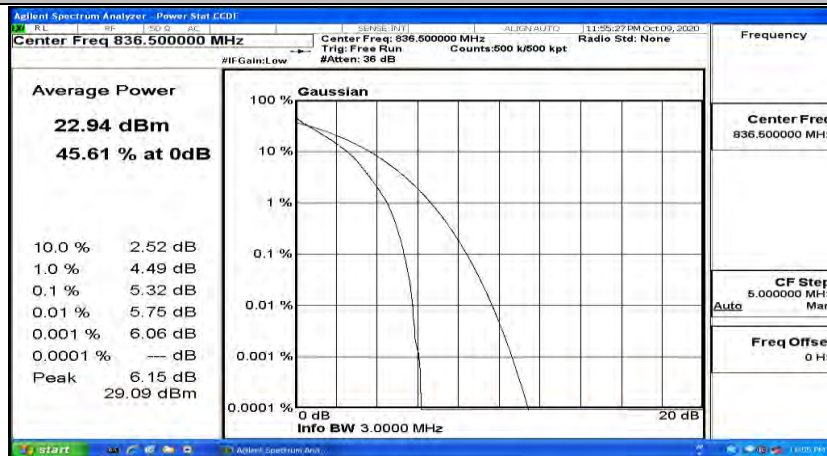
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



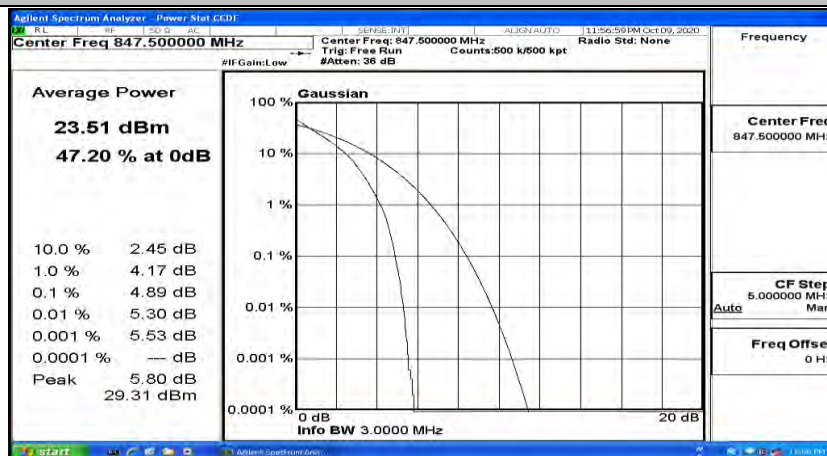
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



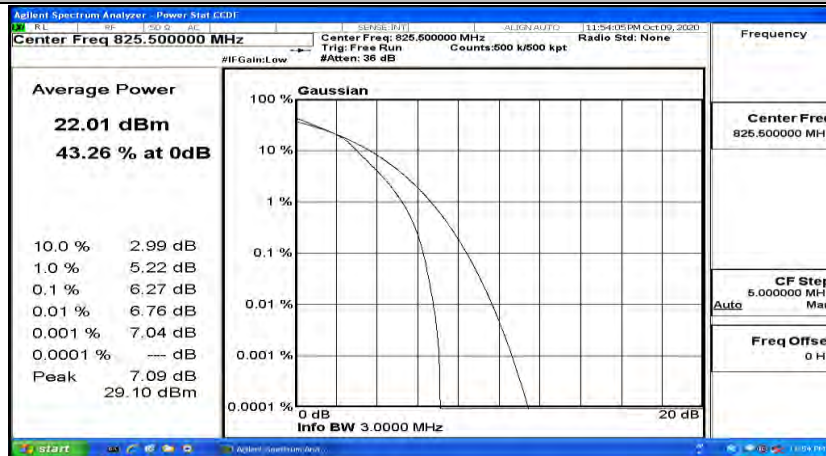
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



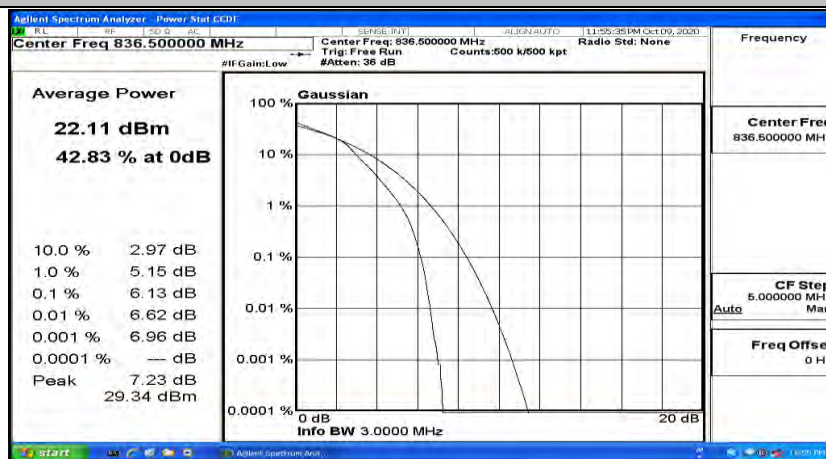
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



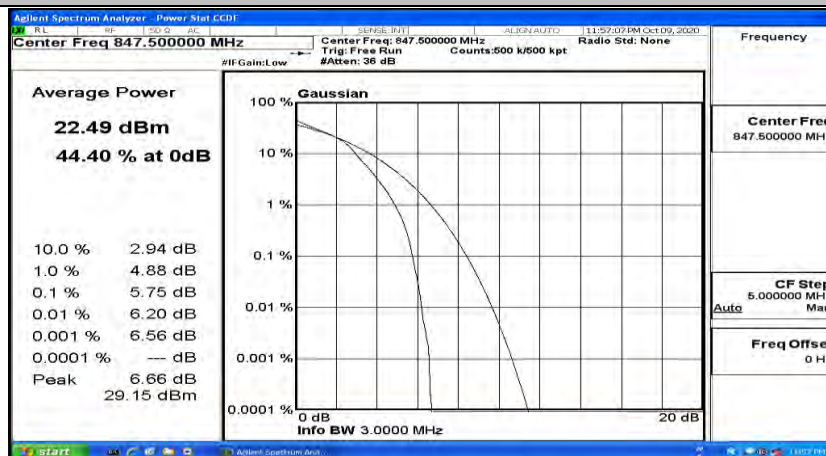
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



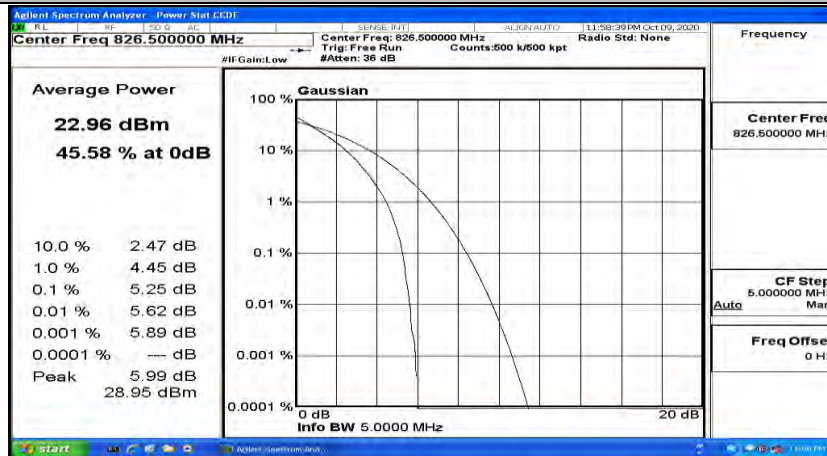
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



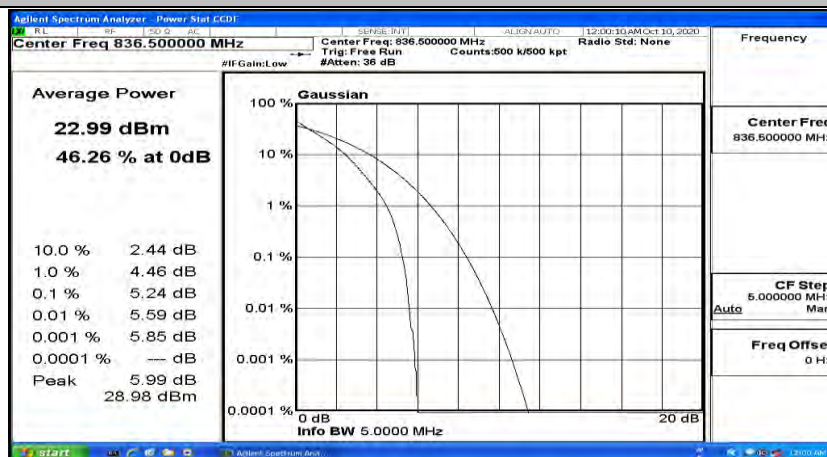
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



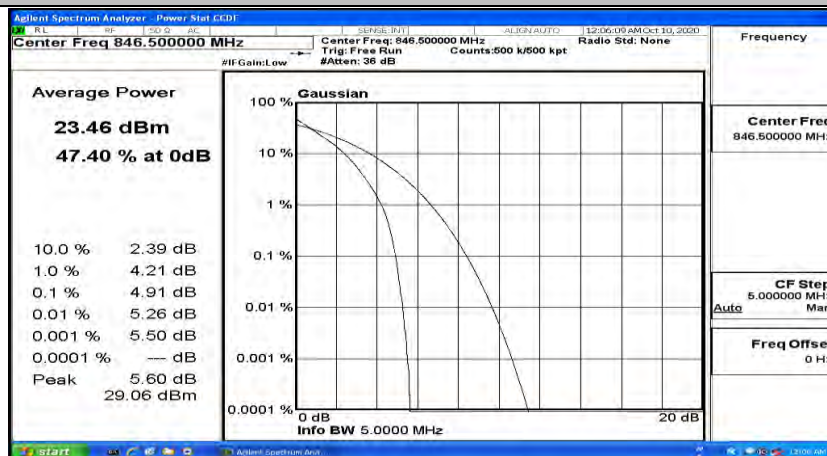
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



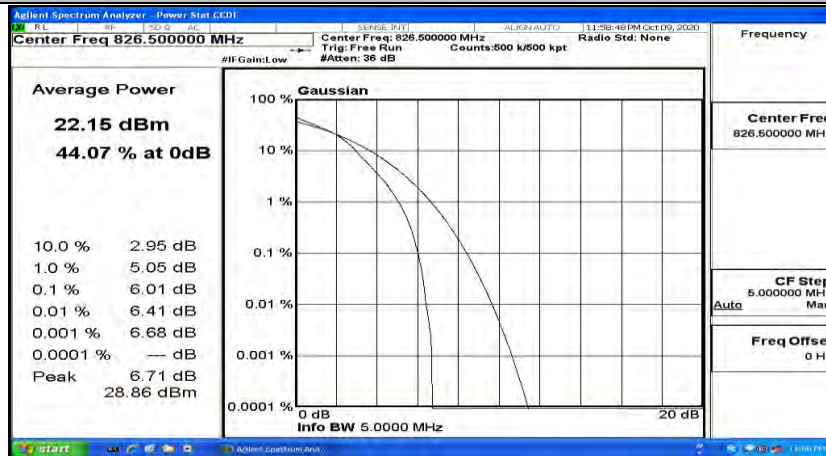
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



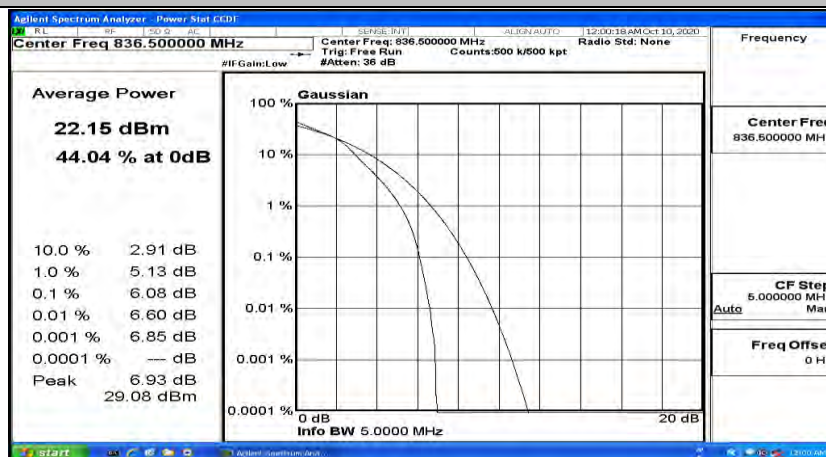
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



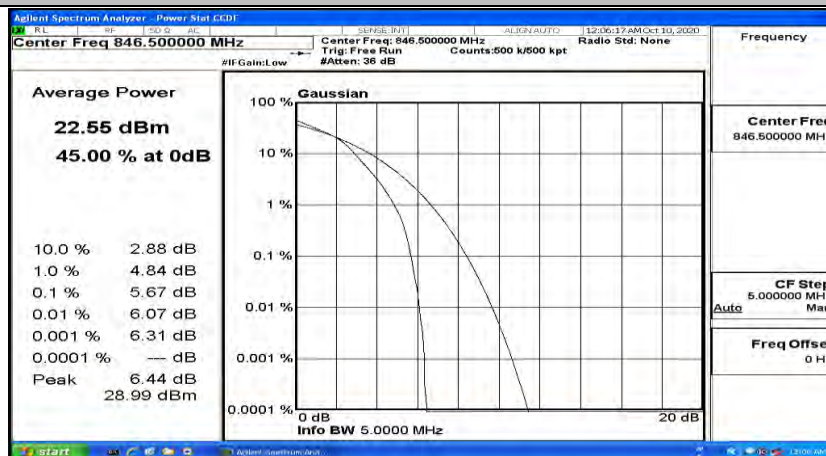
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



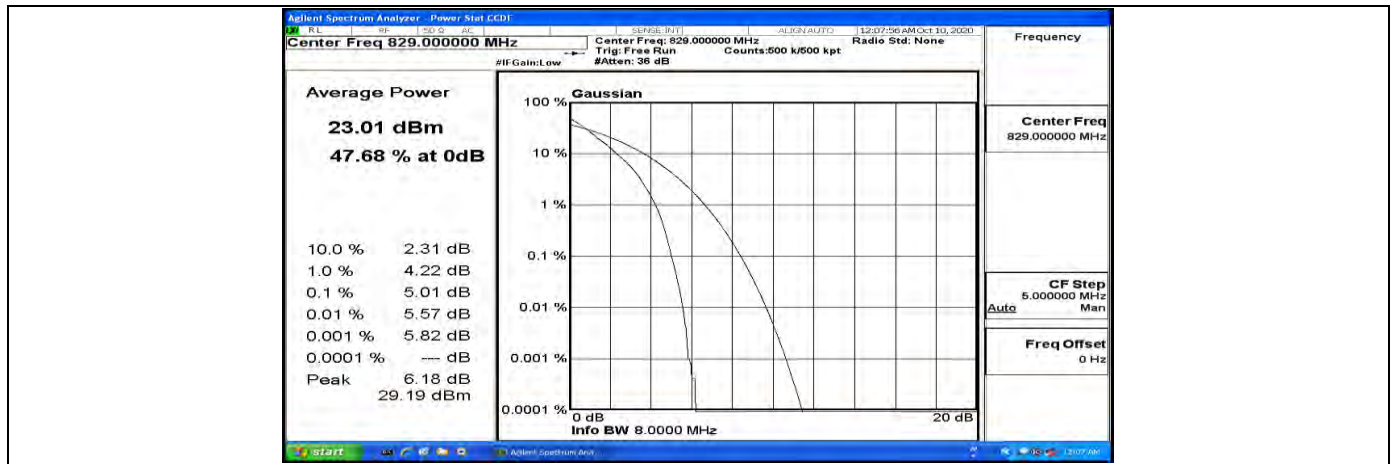
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



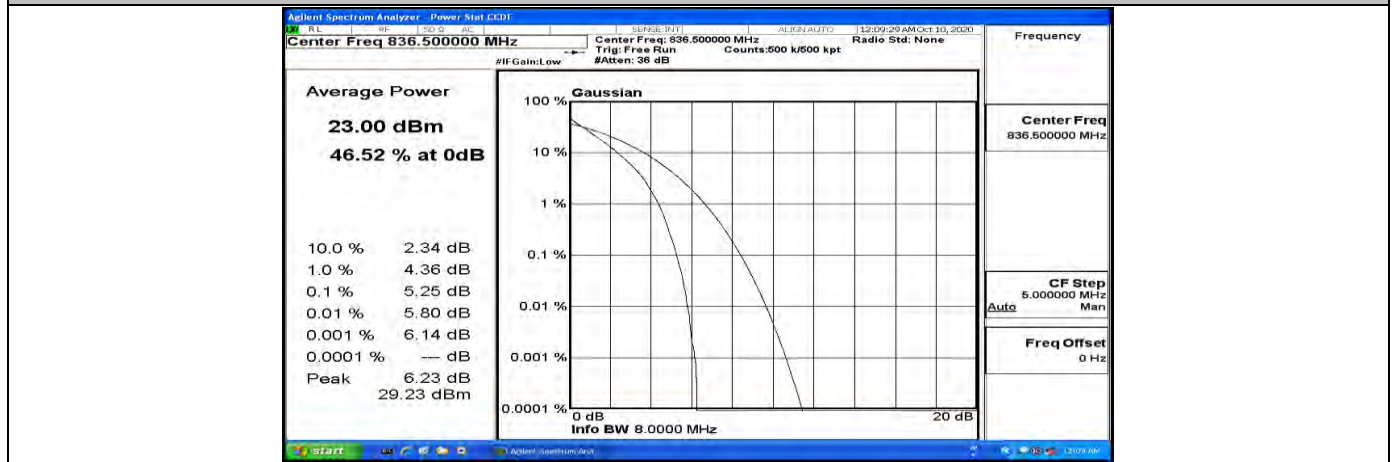
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



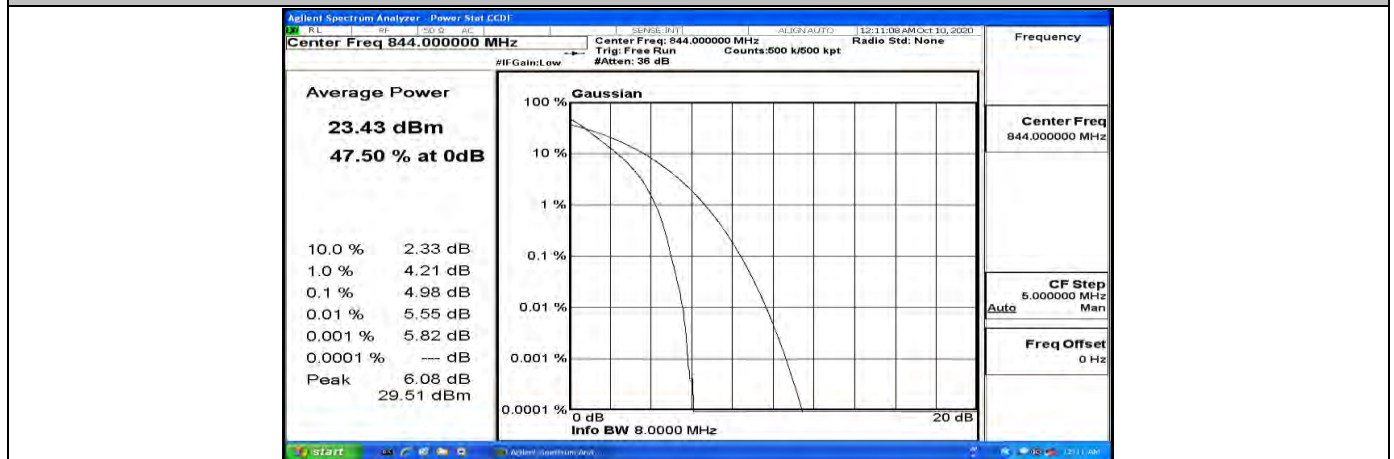
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



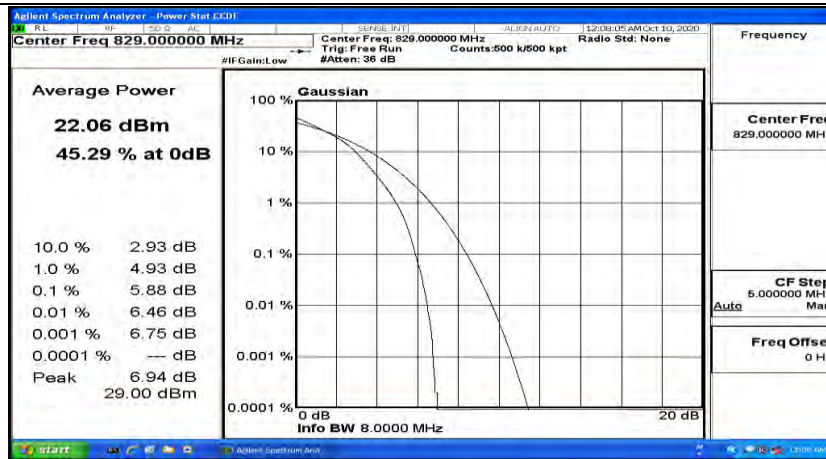
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



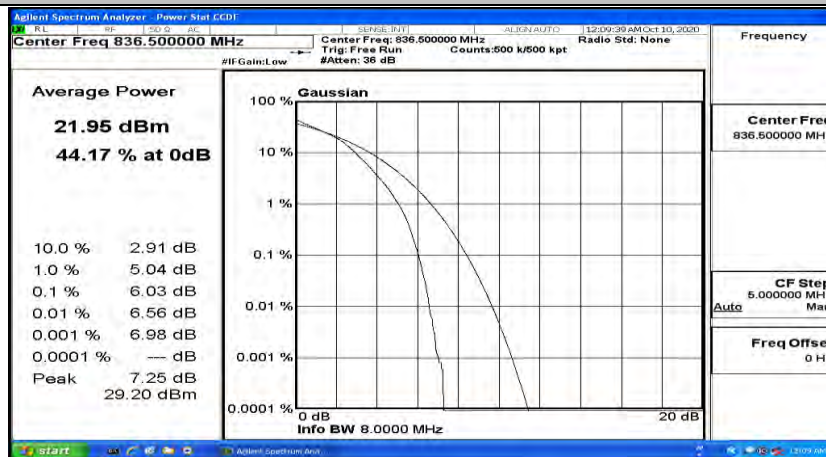
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



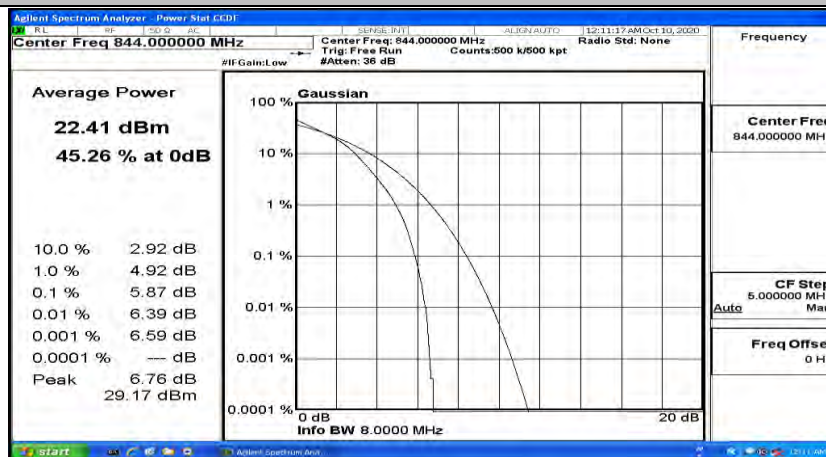
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



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



F.3 26dB Bandwidth and Occupied Bandwidth

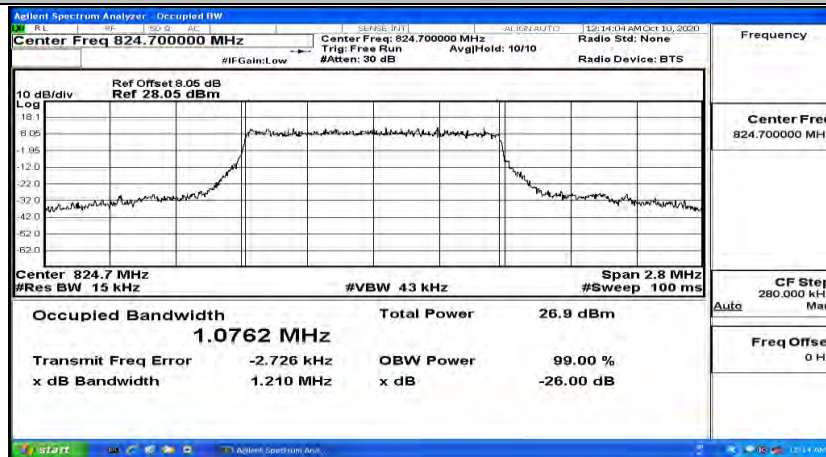
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0762	1.210	PASS
	MCH	1.0789	1.211	PASS
	HCH	1.0765	1.233	PASS
16QAM	LCH	1.0779	1.240	PASS
	MCH	1.0777	1.224	PASS
	HCH	1.0804	1.228	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6855	2.883	PASS
	MCH	2.6852	2.910	PASS
	HCH	2.6821	2.868	PASS
16QAM	LCH	2.6867	2.897	PASS
	MCH	2.6878	2.900	PASS
	HCH	2.6816	2.878	PASS

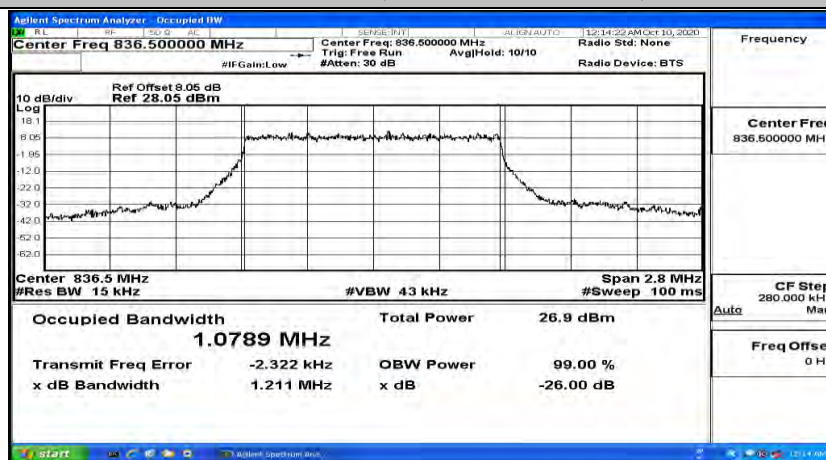
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4703	4.831	PASS
	MCH	4.4729	4.794	PASS
	HCH	9.9095	10.00	PASS
16QAM	LCH	4.4863	4.786	PASS
	MCH	4.4786	4.792	PASS
	HCH	4.4687	4.812	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9256	9.444	PASS
	MCH	8.9263	9.426	PASS
	HCH	8.9210	9.363	PASS
16QAM	LCH	8.9075	9.367	PASS
	MCH	8.9388	9.417	PASS
	HCH	8.9061	9.397	PASS

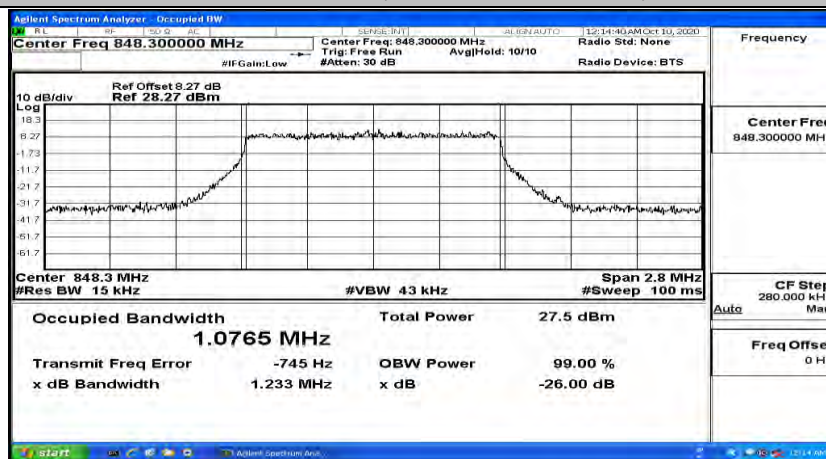
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



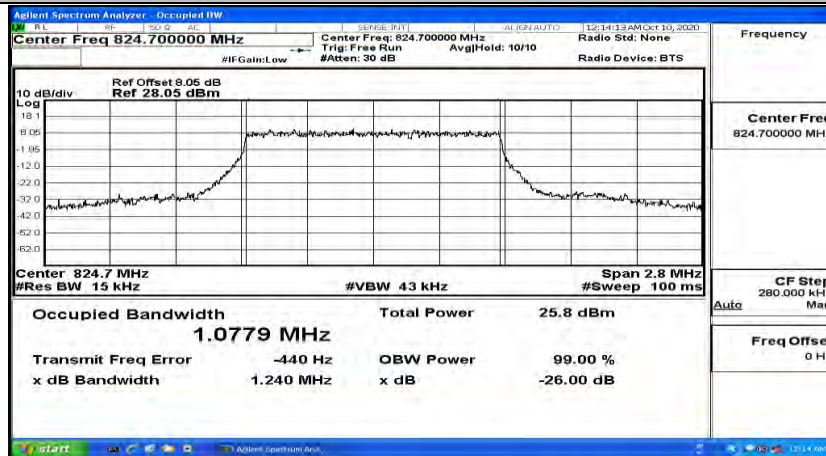
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



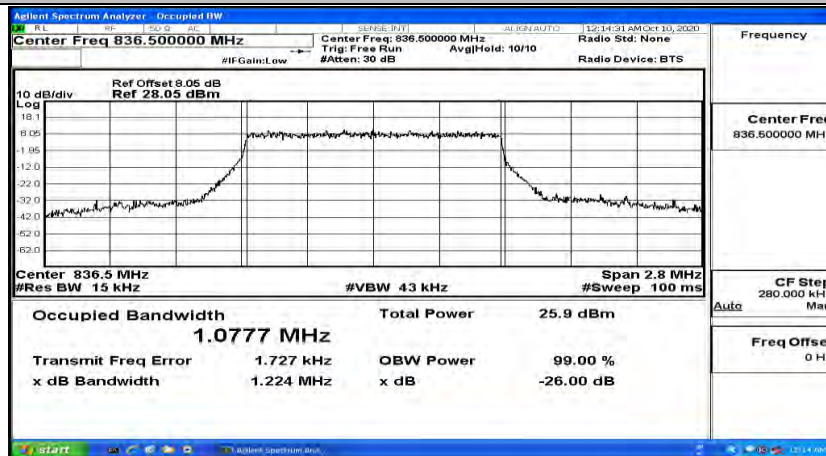
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



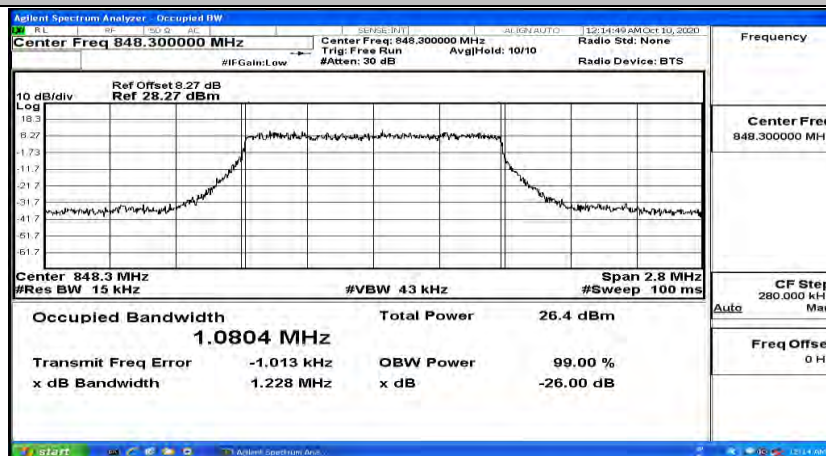
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



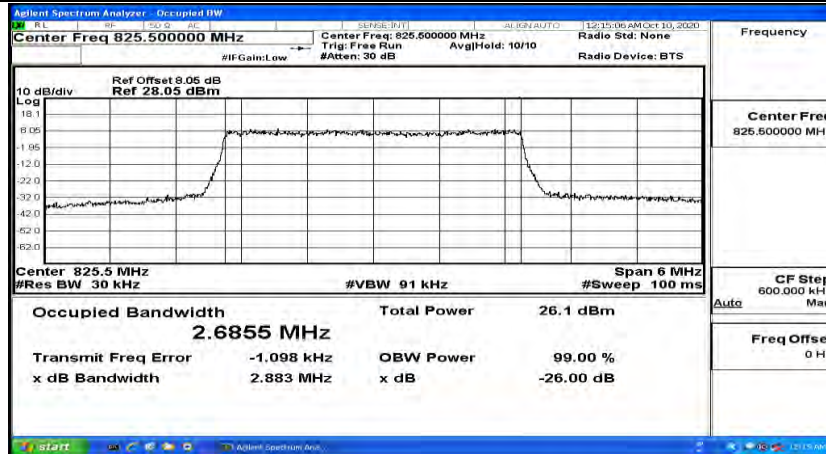
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



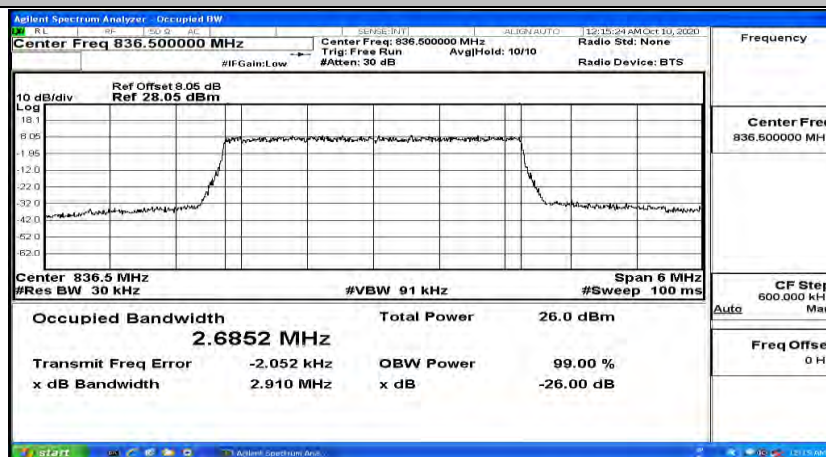
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



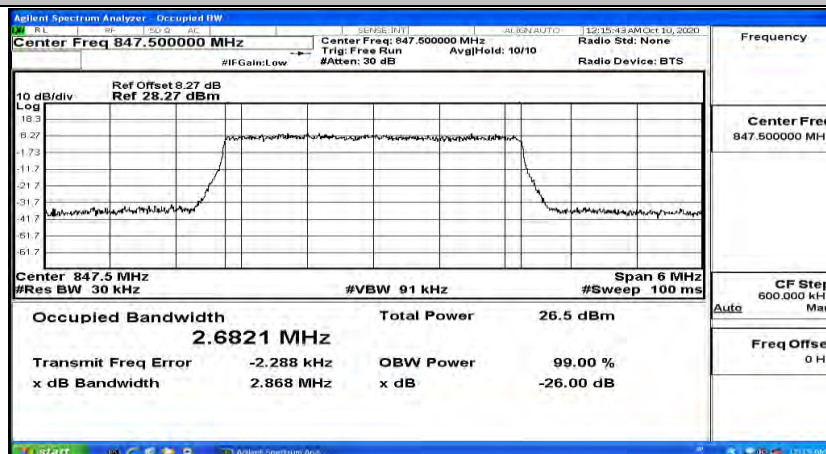
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



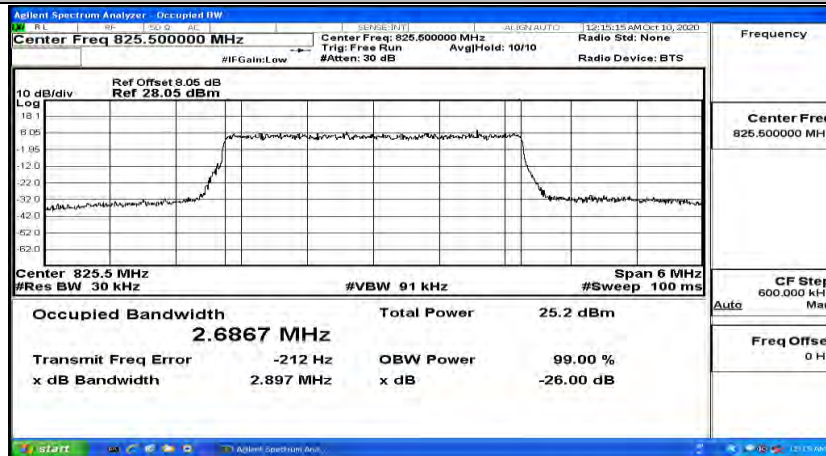
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK



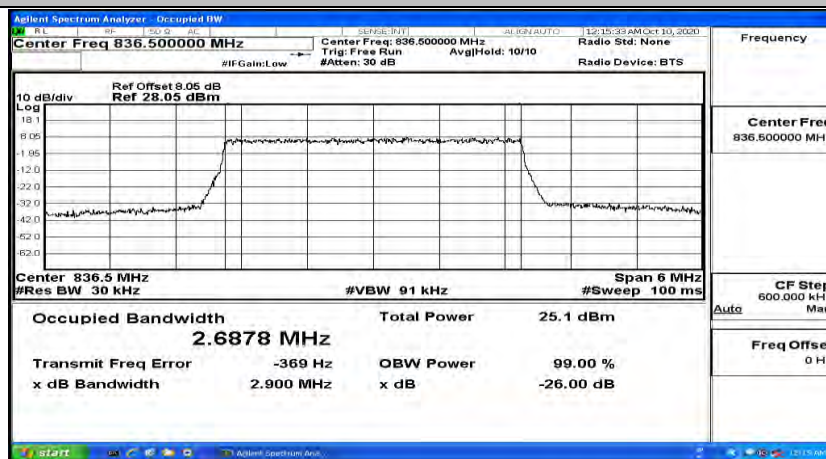
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



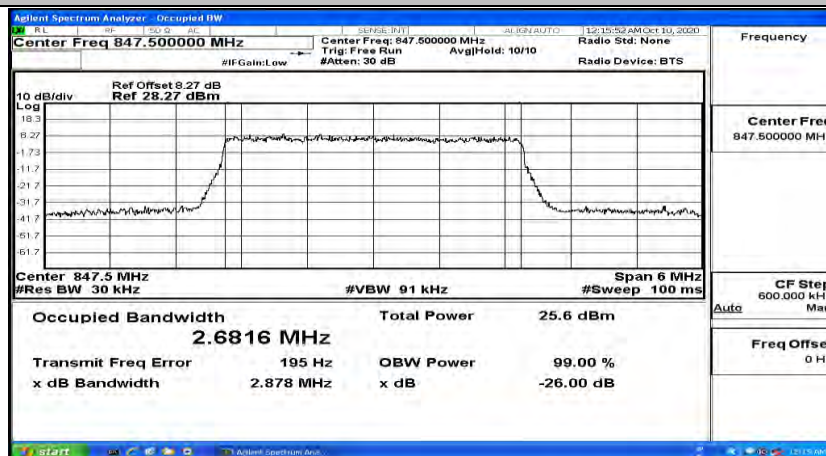
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



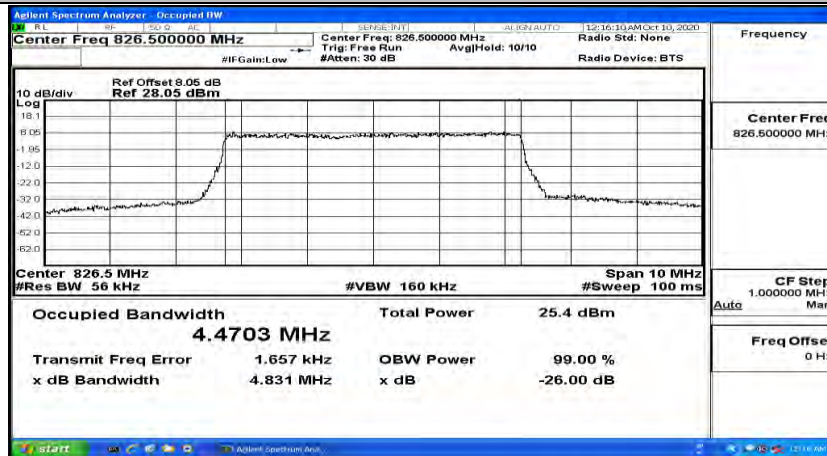
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



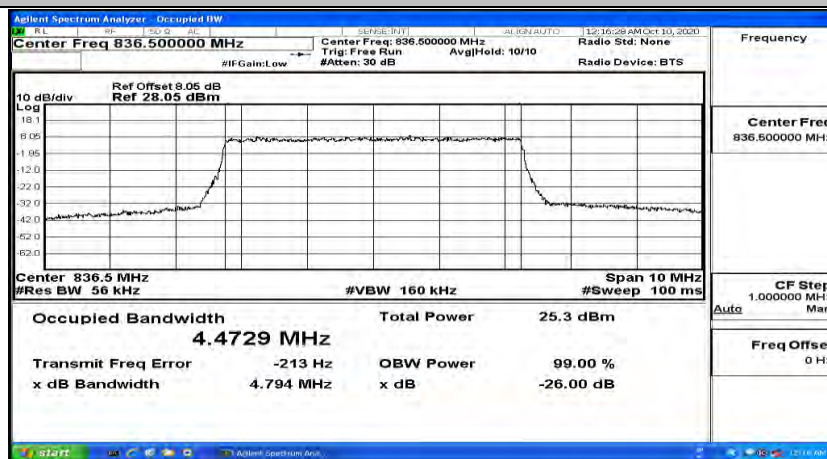
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



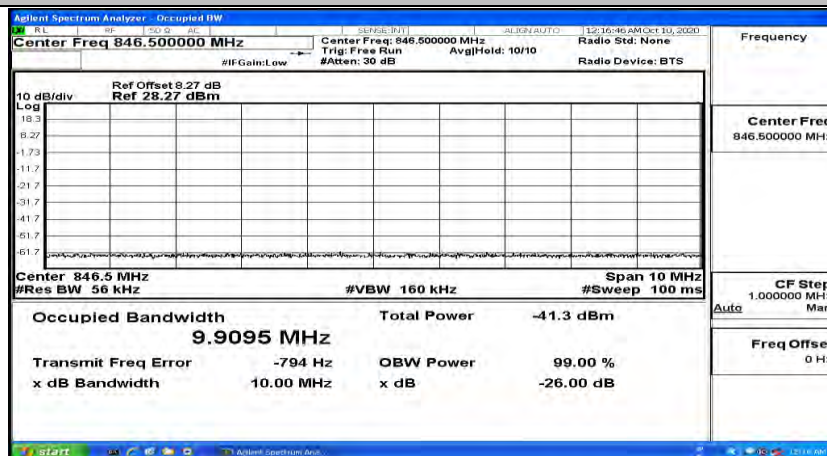
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



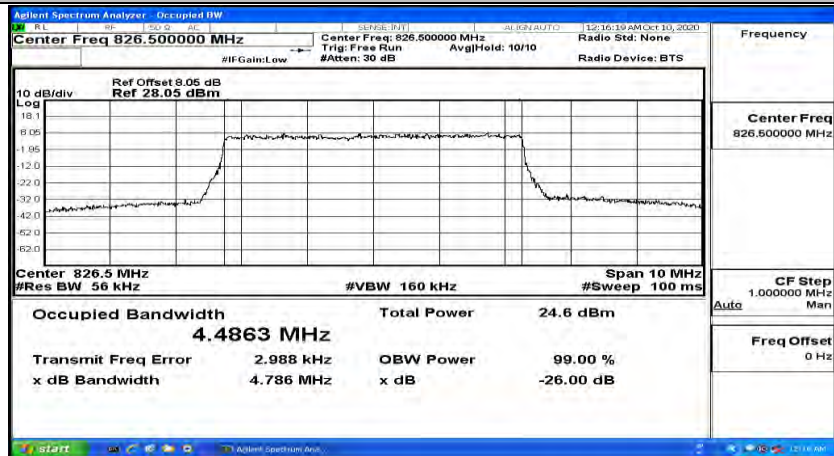
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



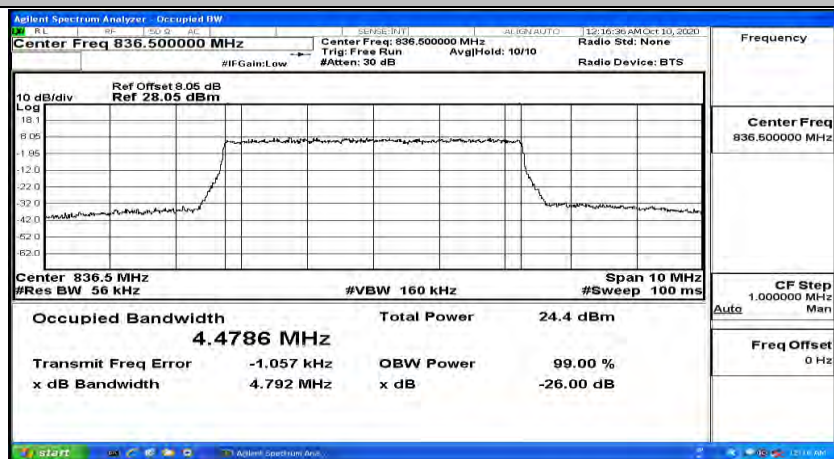
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



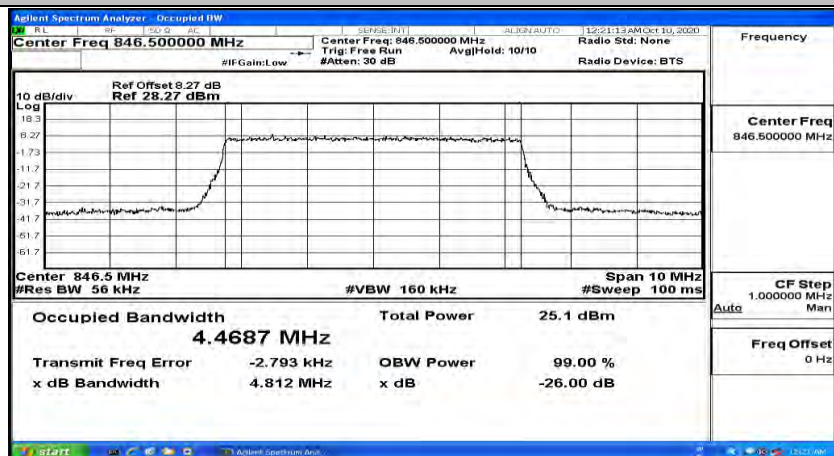
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



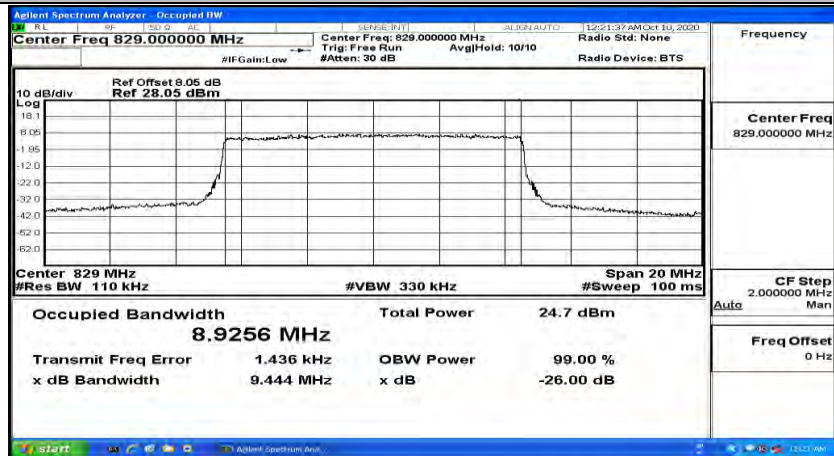
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



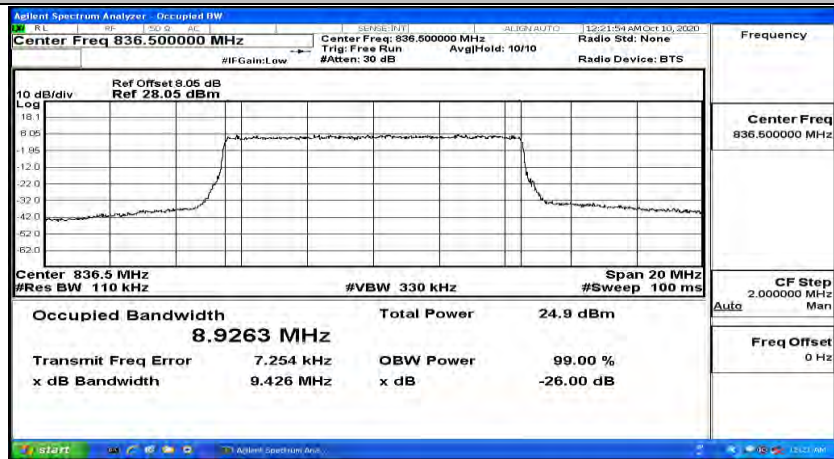
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



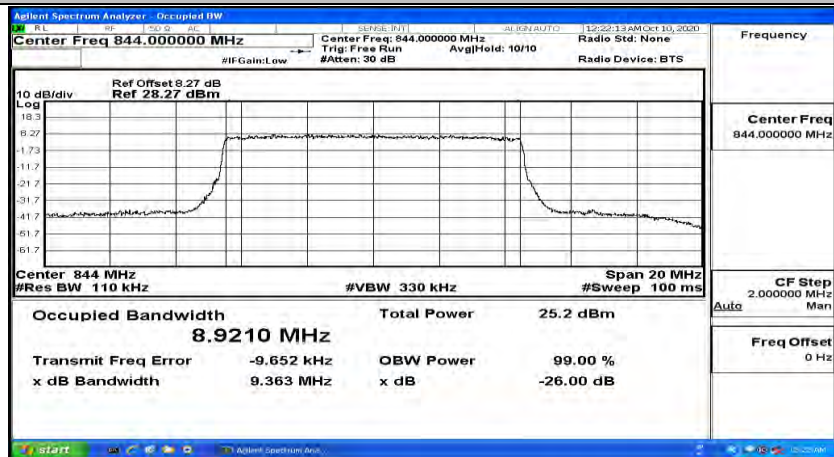
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



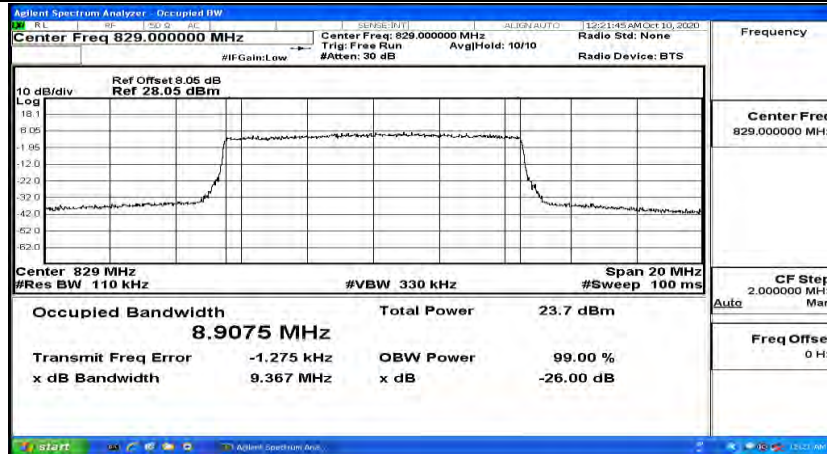
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



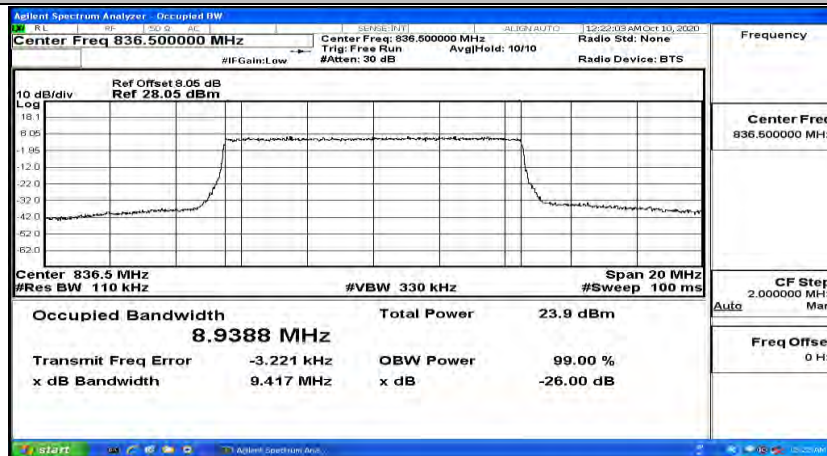
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



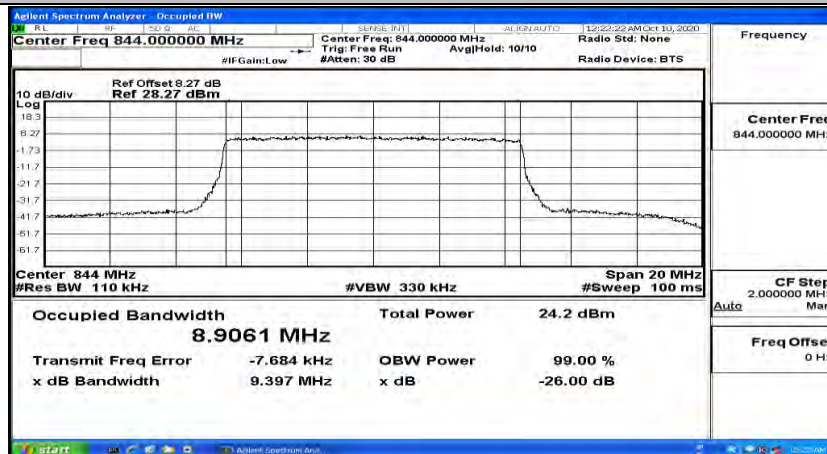
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

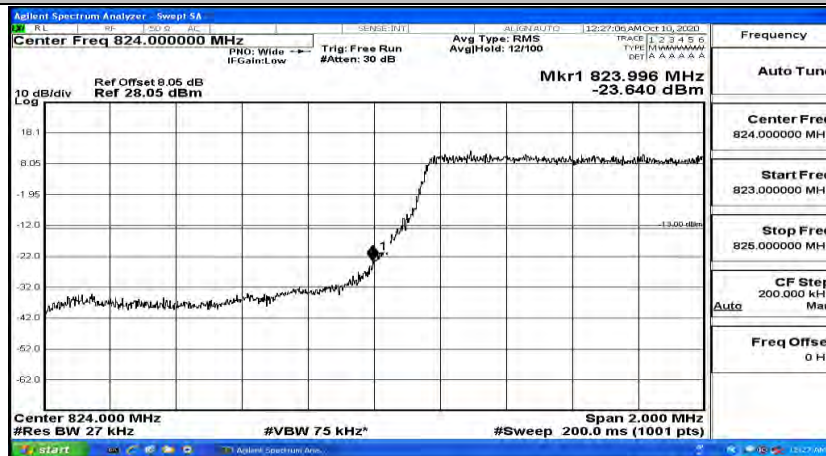


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

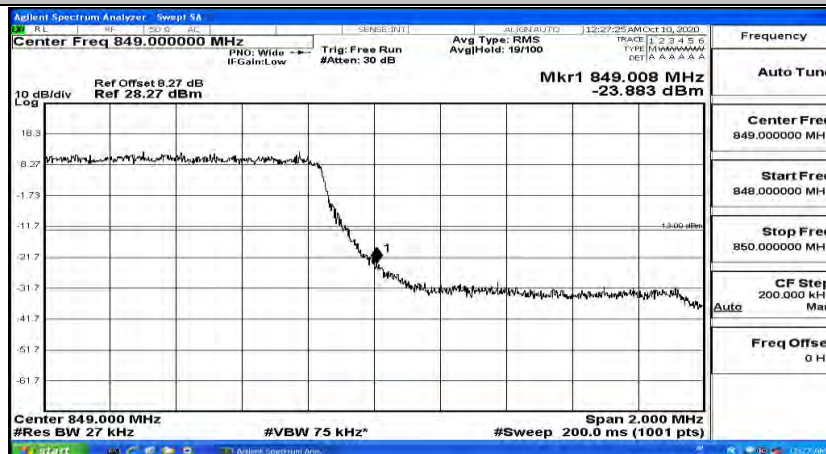


F.4 Band Edge

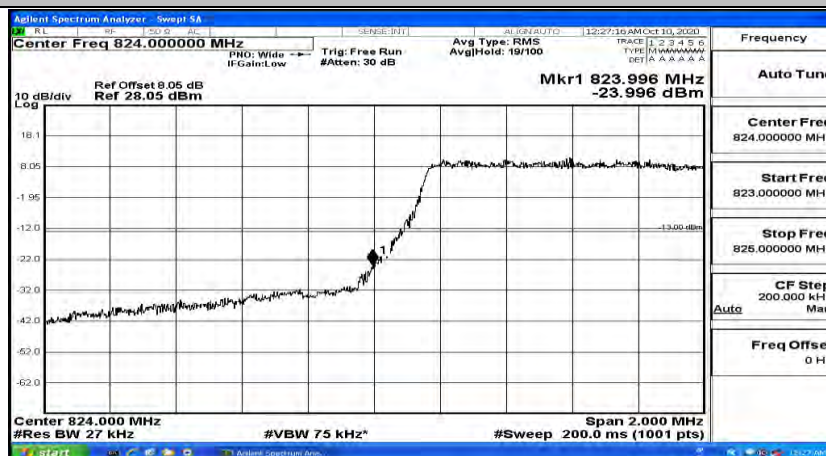
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



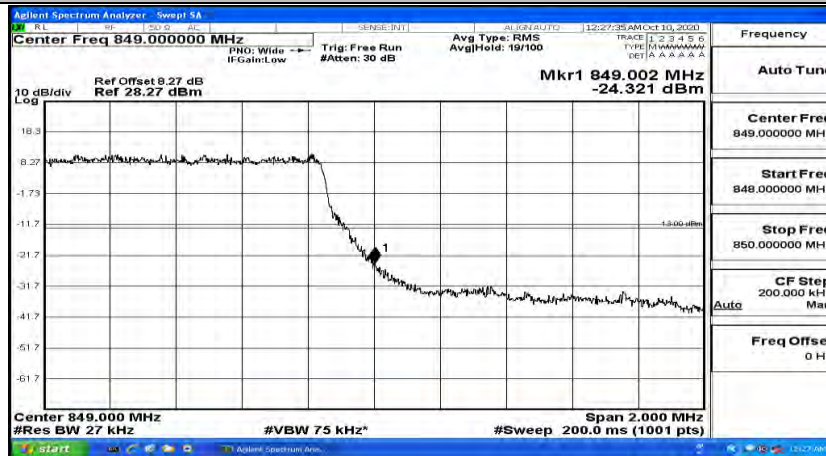
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



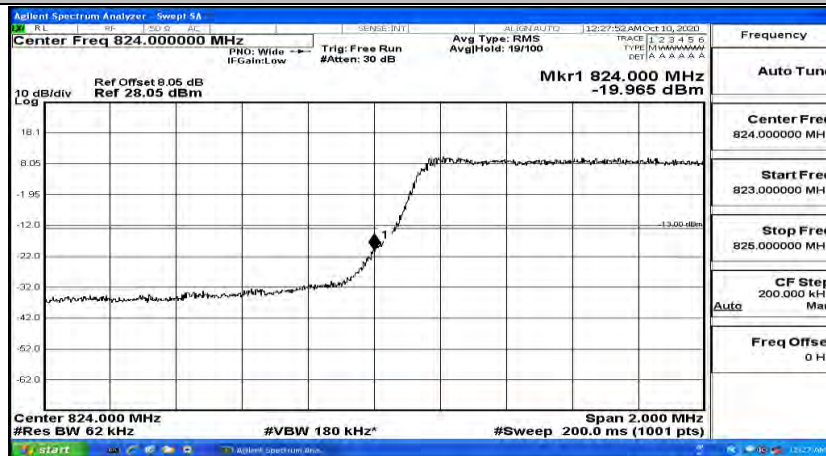
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



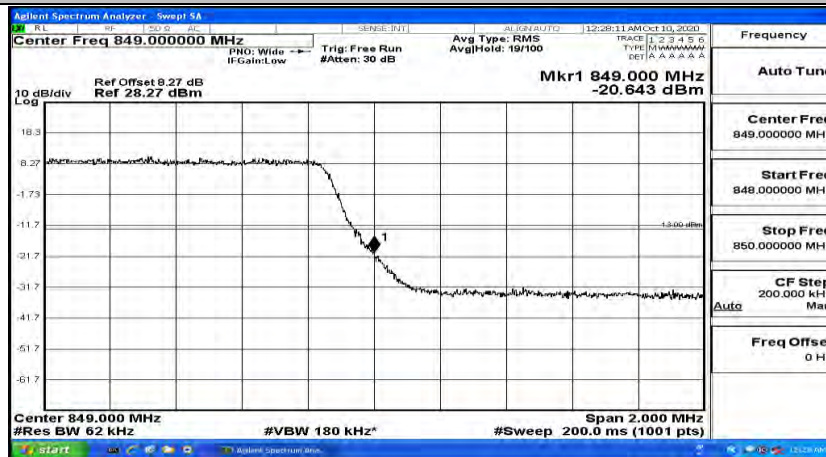
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



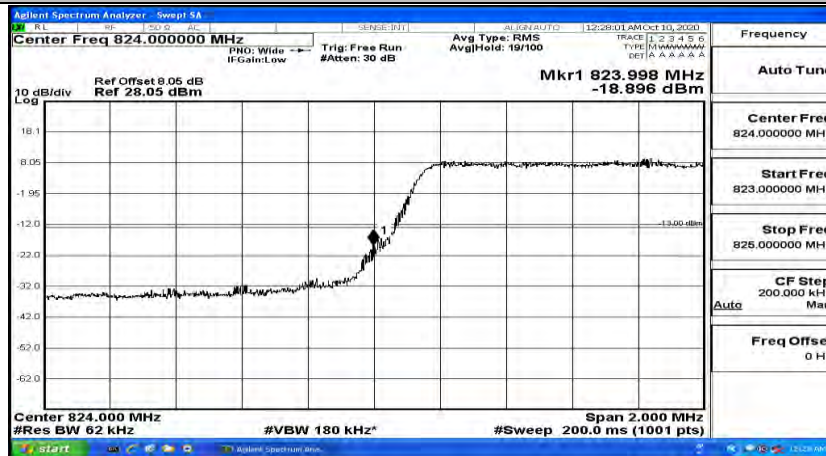
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



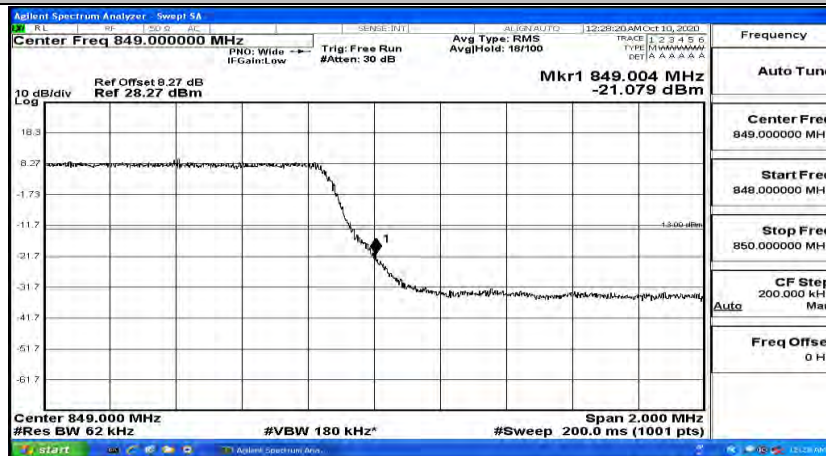
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



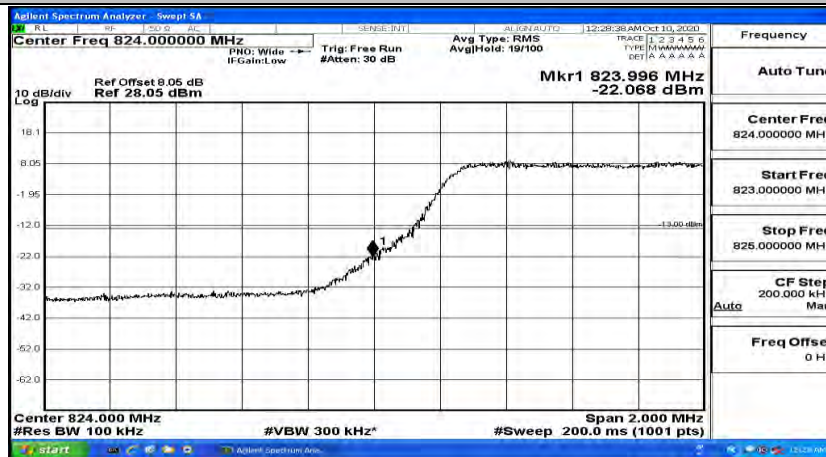
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



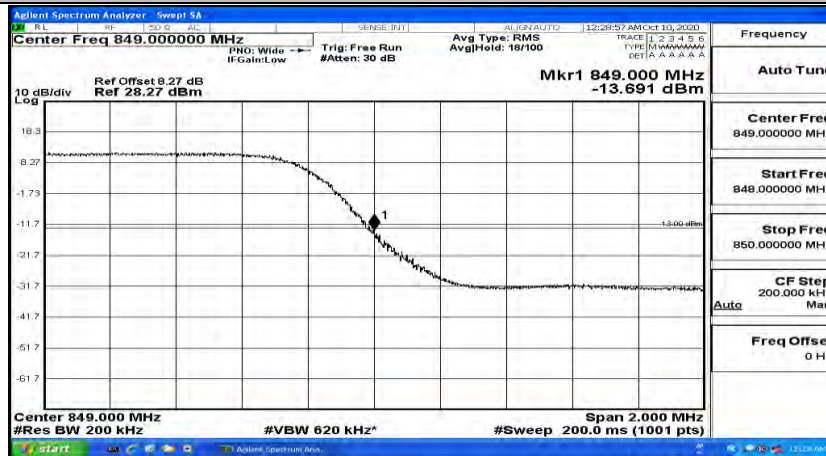
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



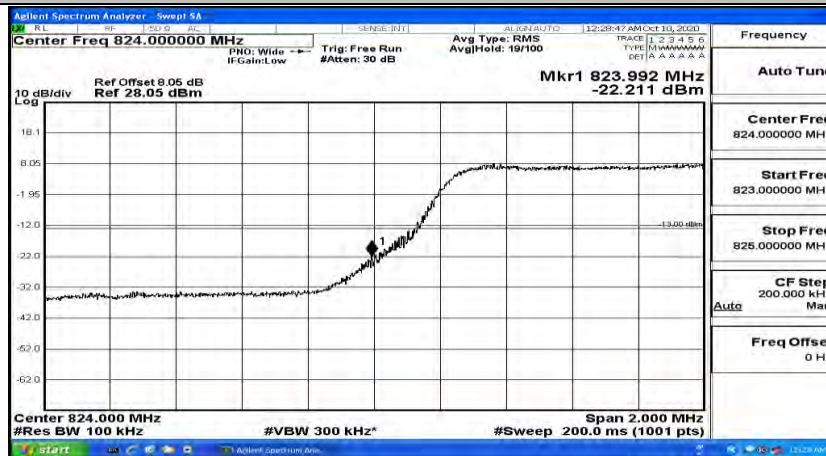
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



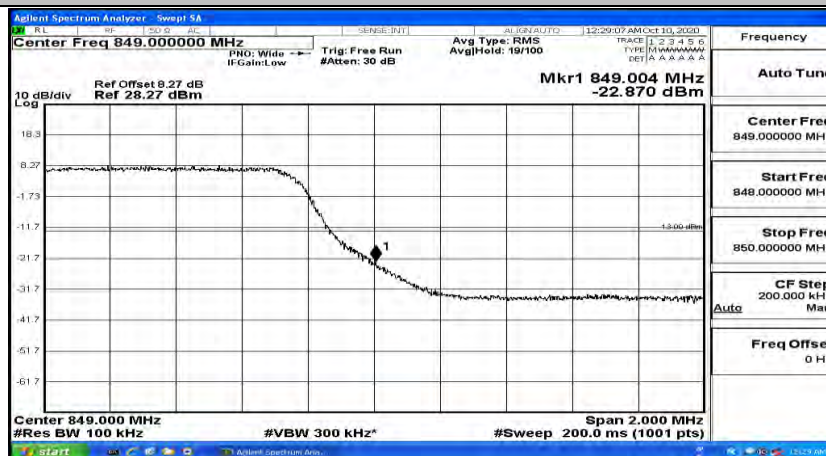
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



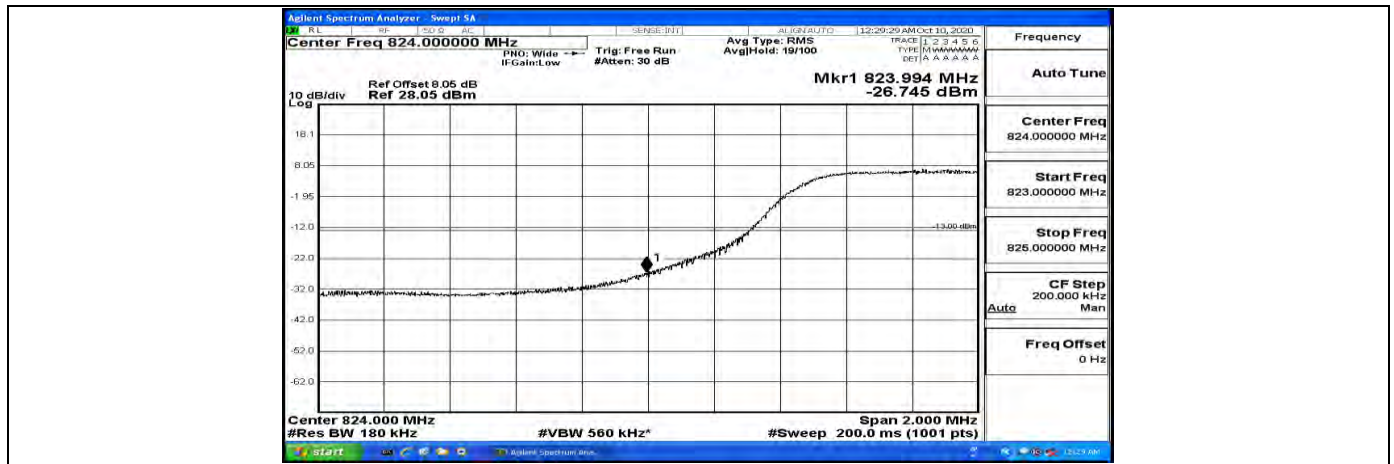
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



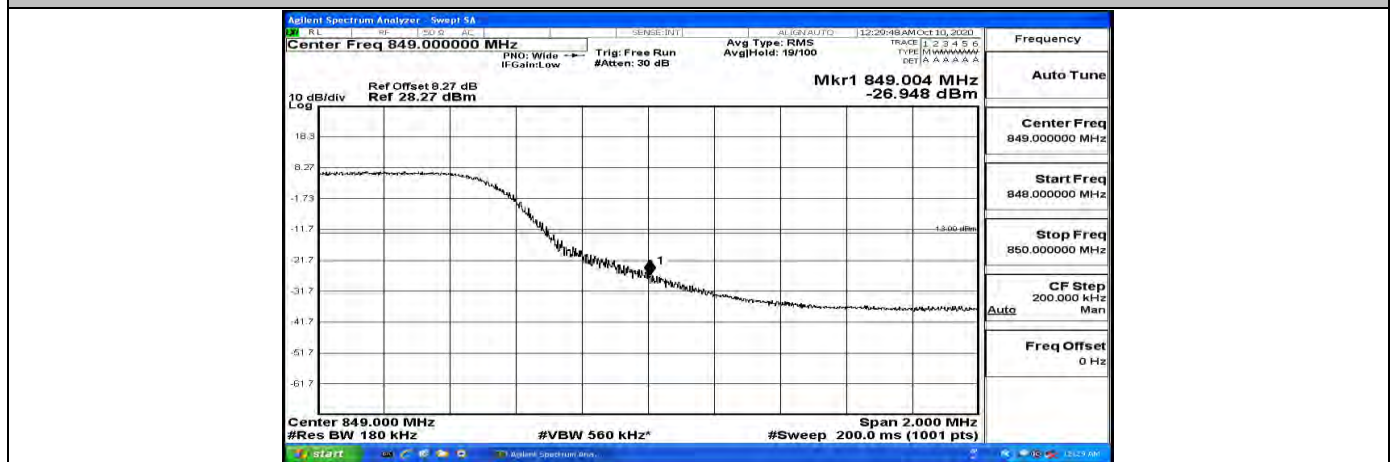
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



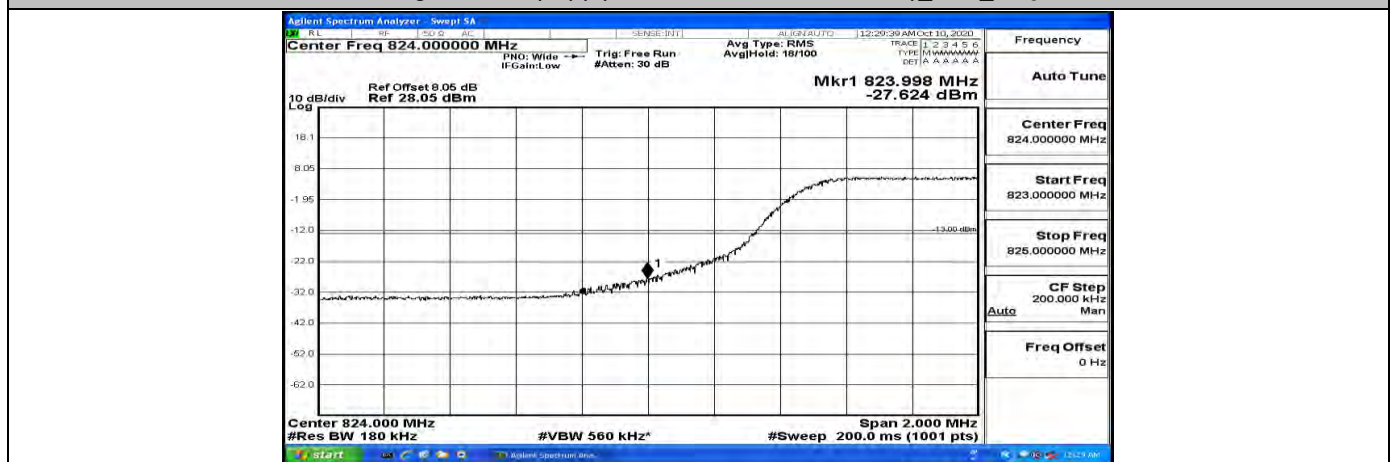
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



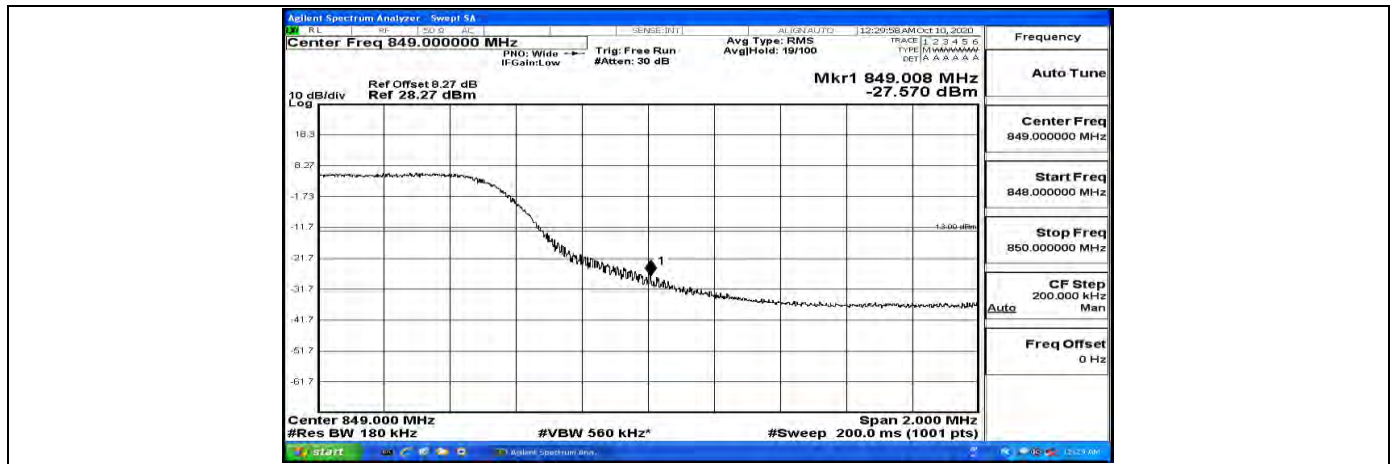
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



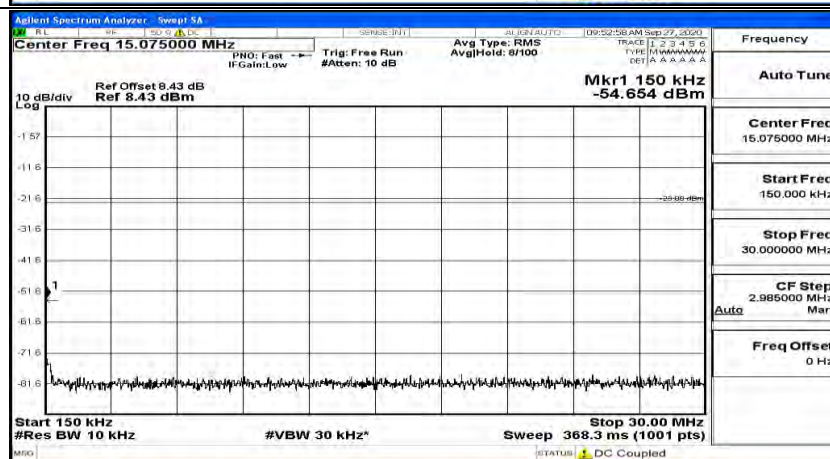
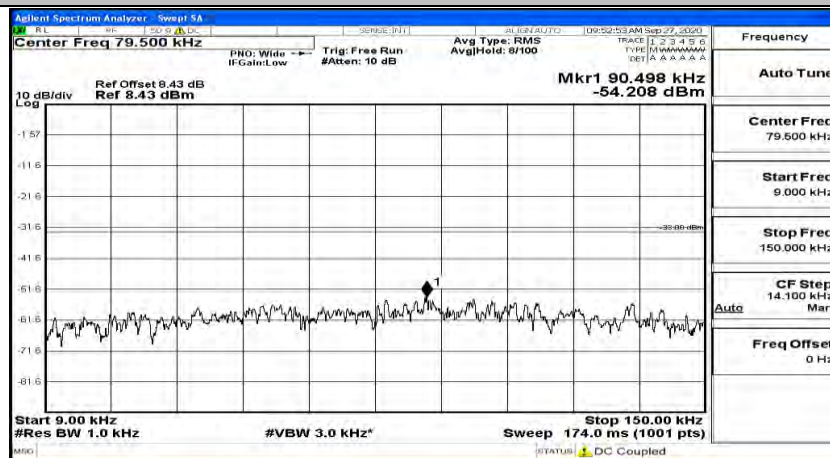
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



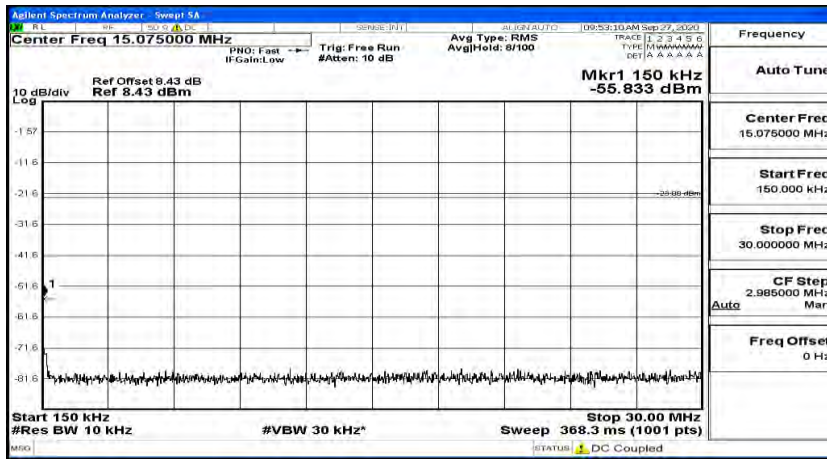
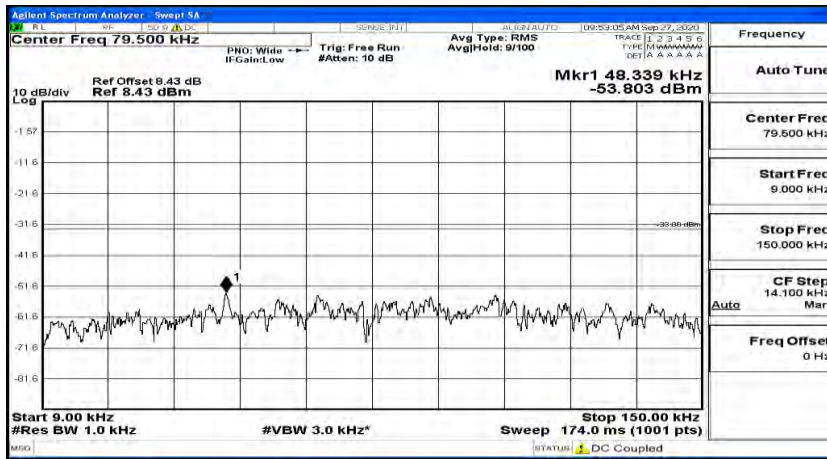
F.5 Conducted Spurious Emission

Channel Bandwidth: 1.4 MHz

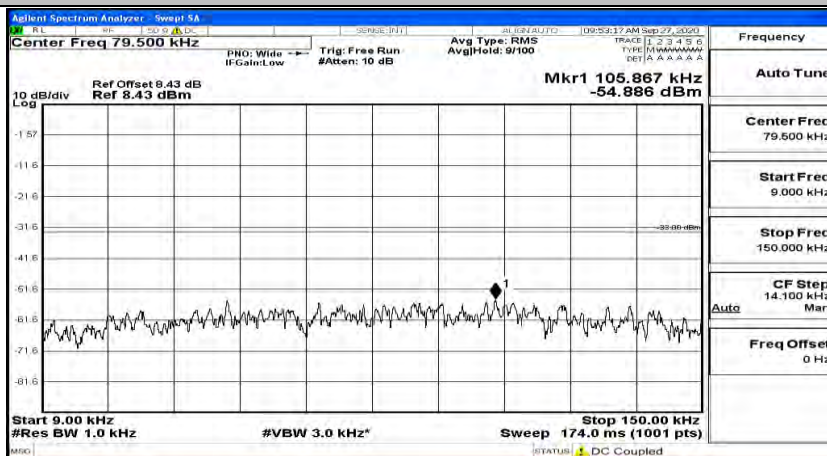
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0

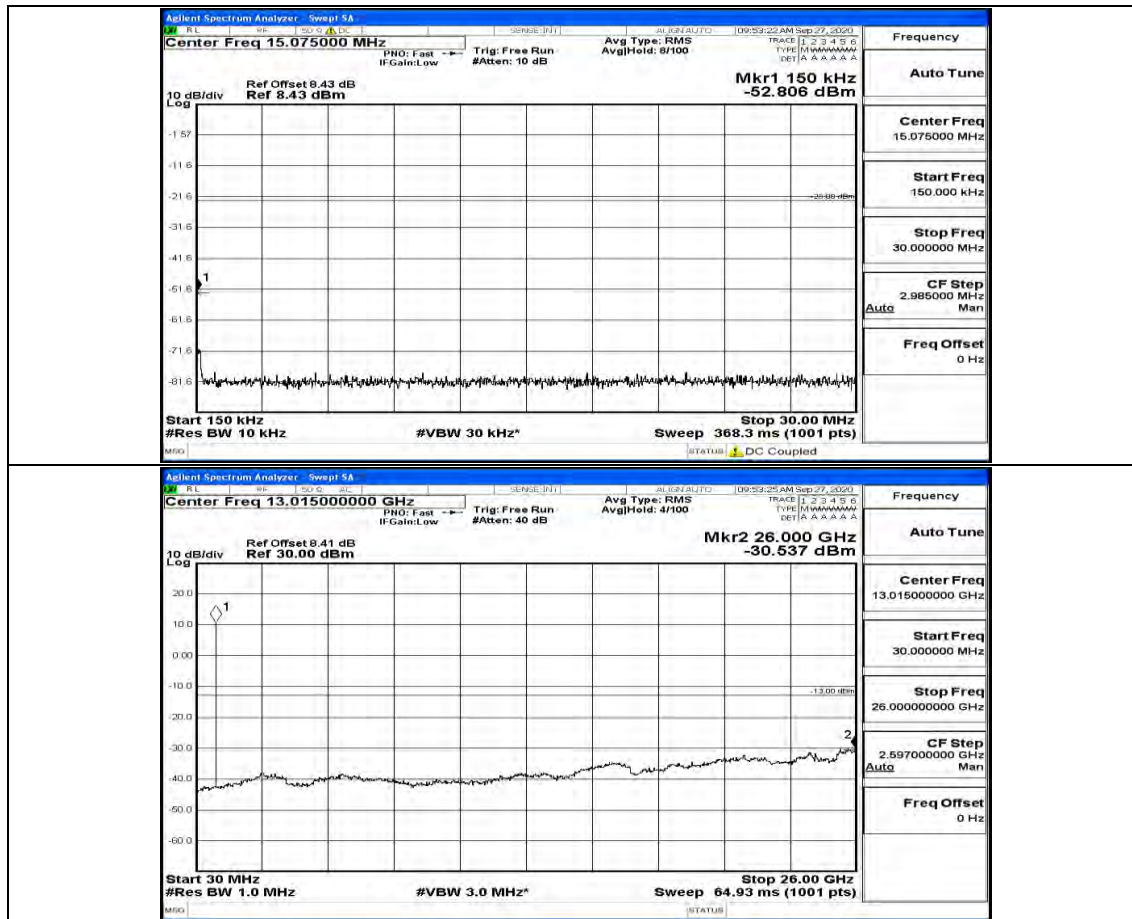


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

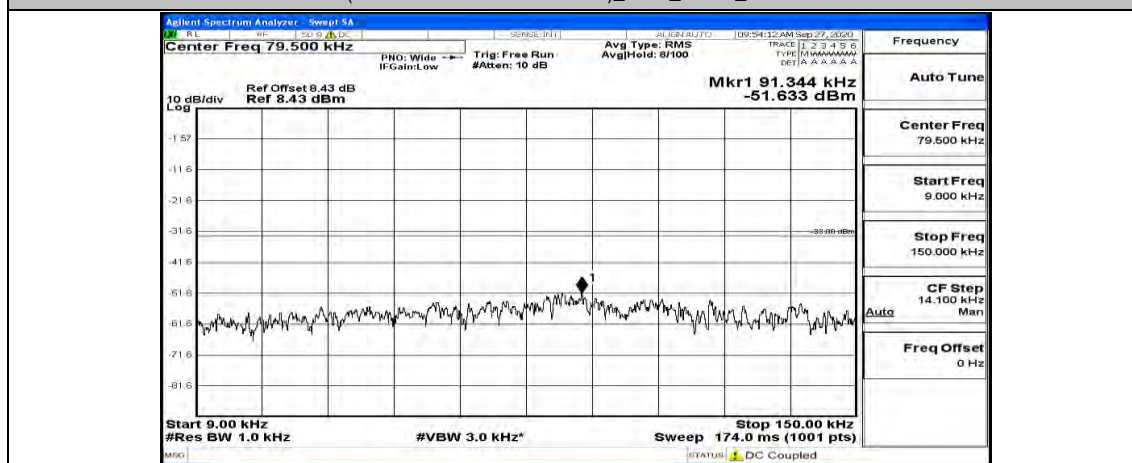


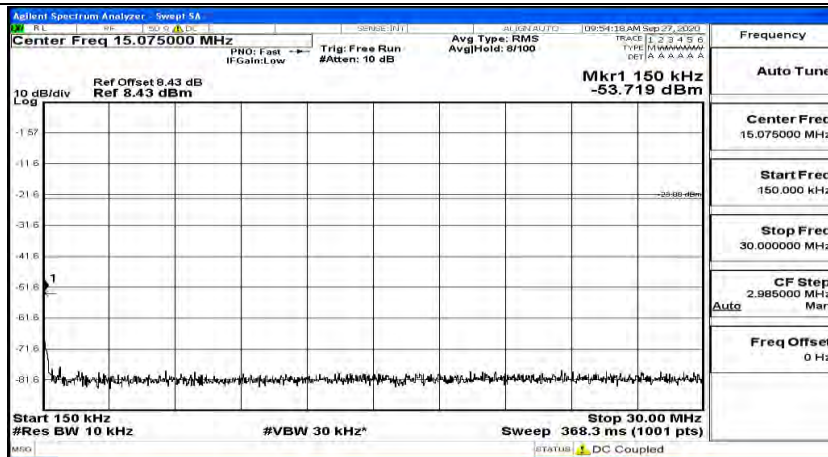
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



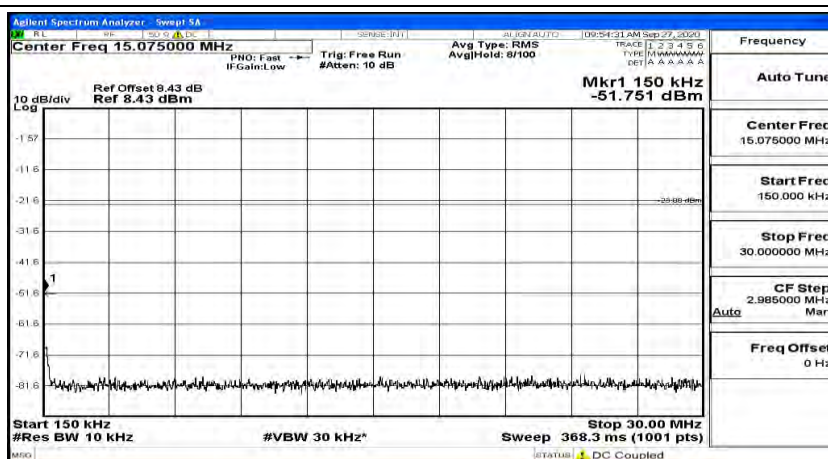
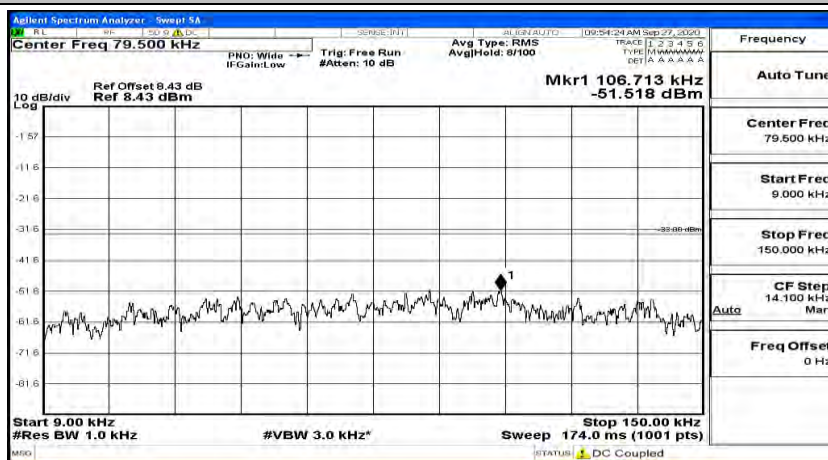


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



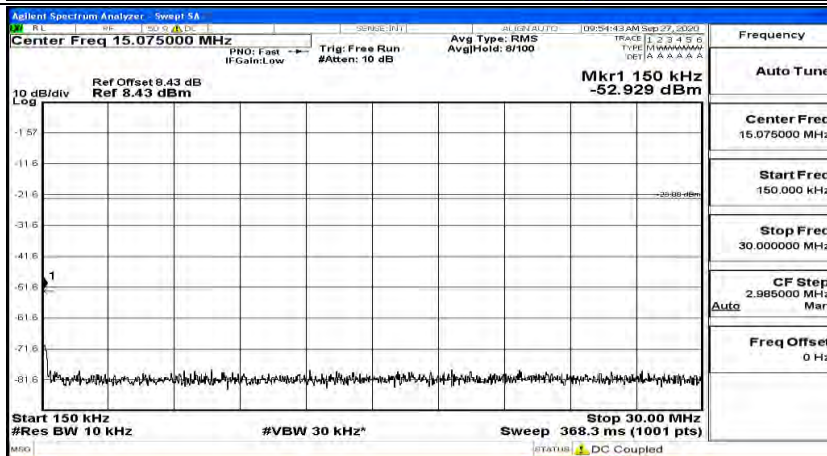
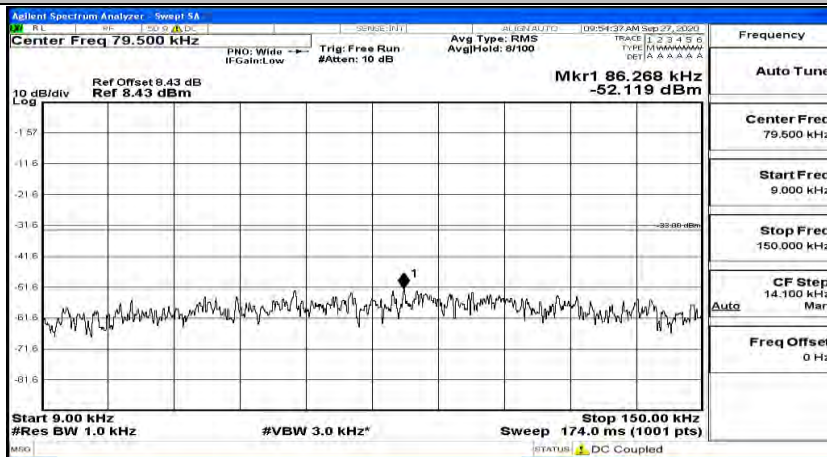


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

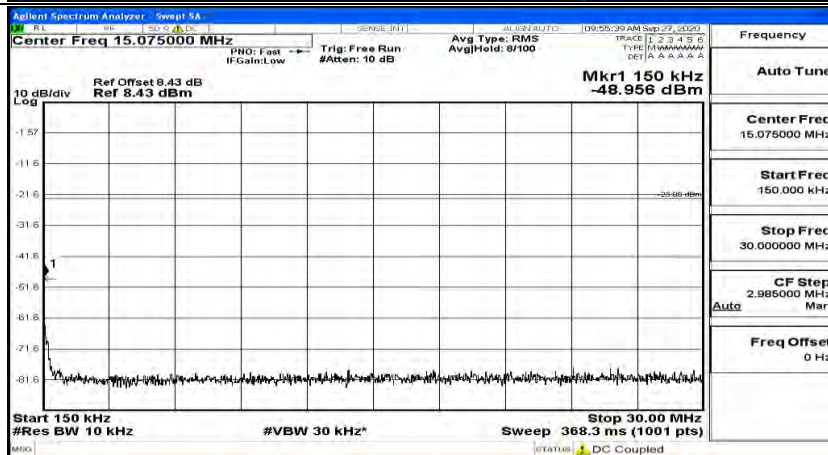
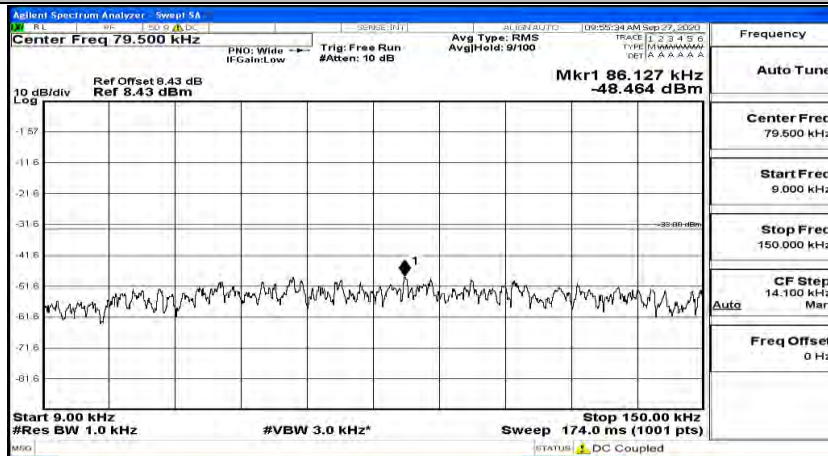




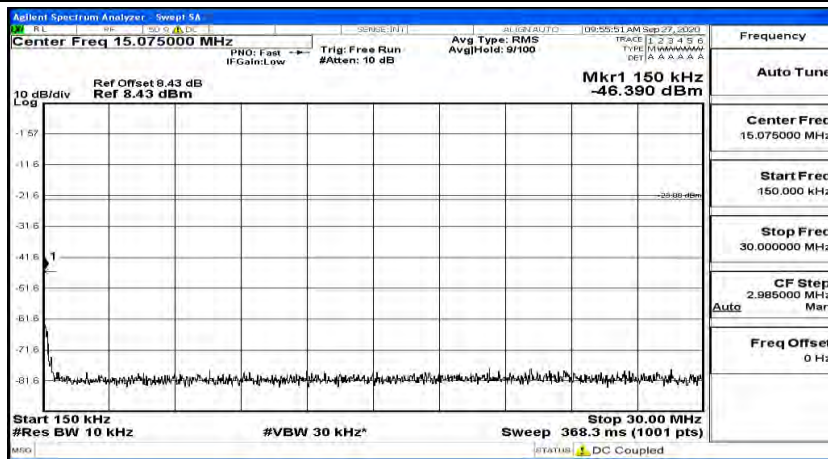
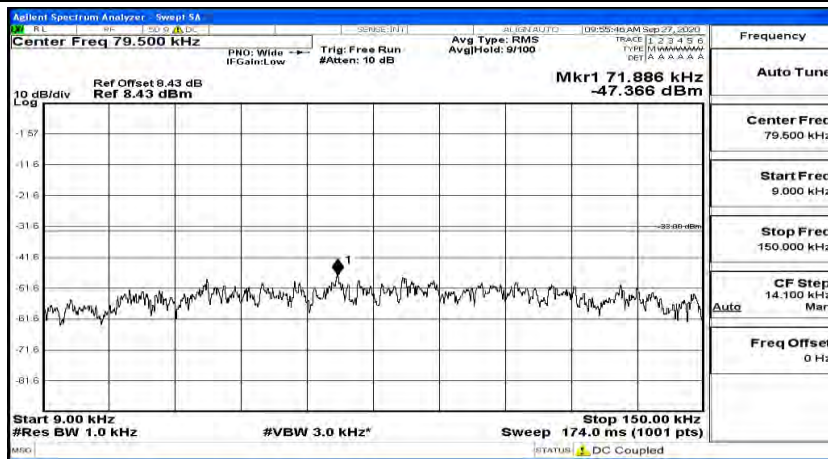
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



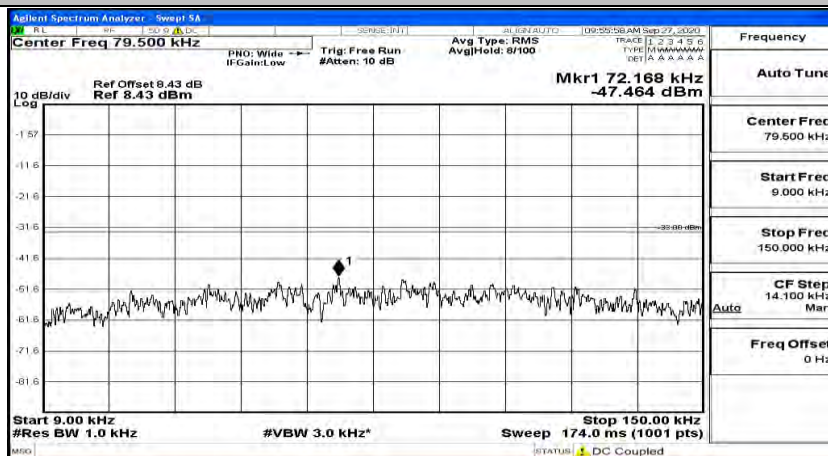
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

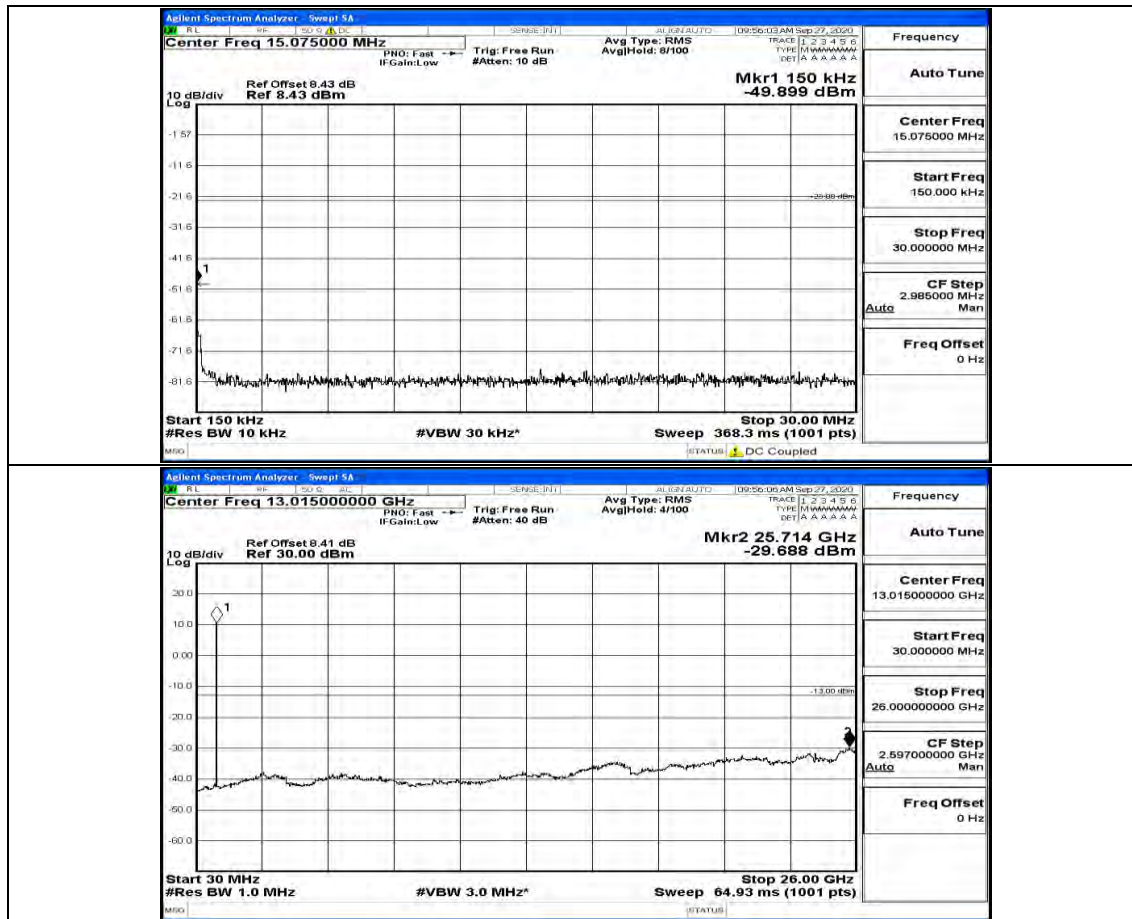


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3

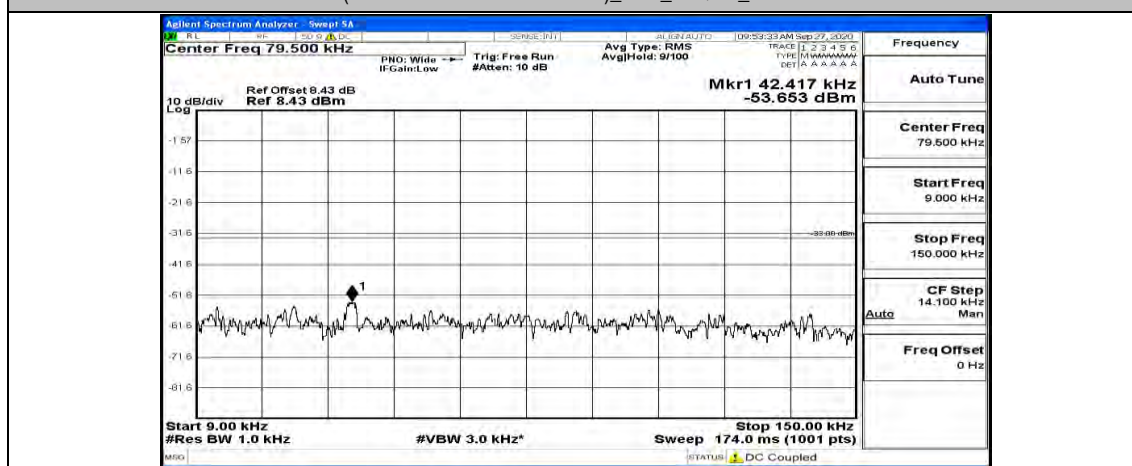


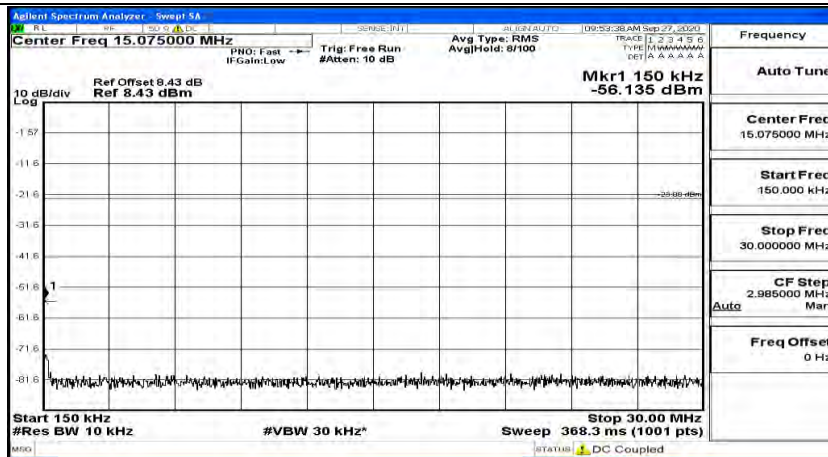
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



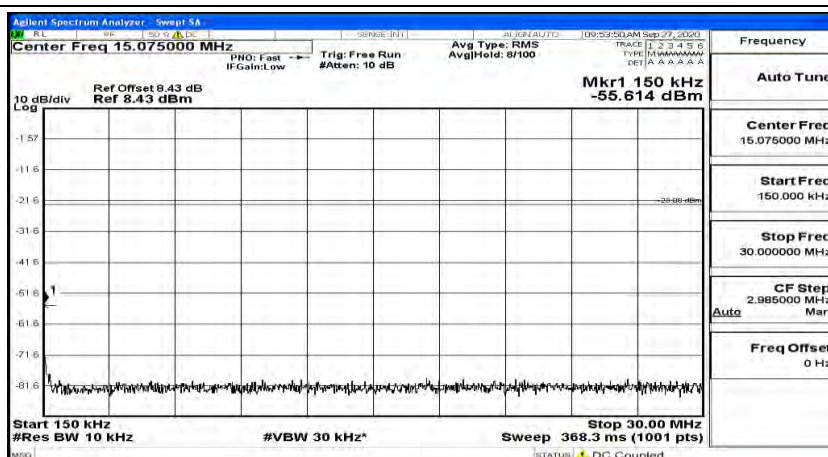
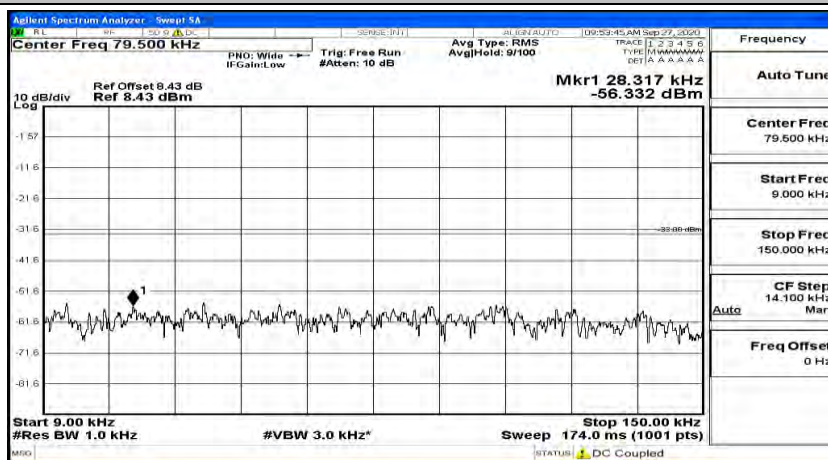


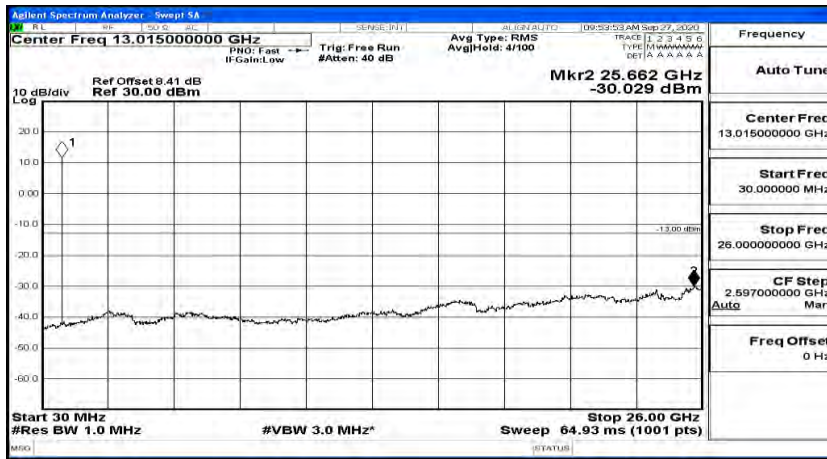
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



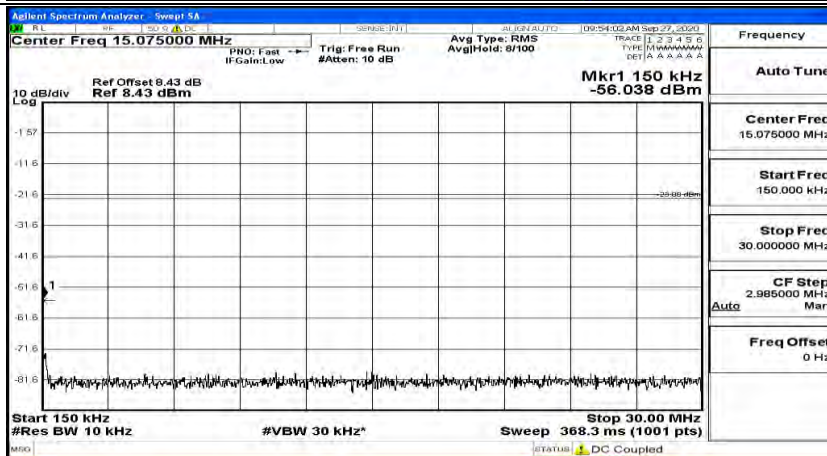
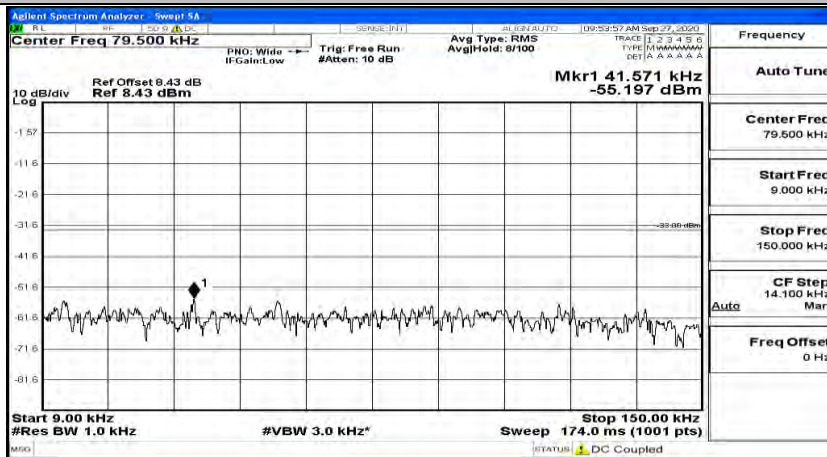


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

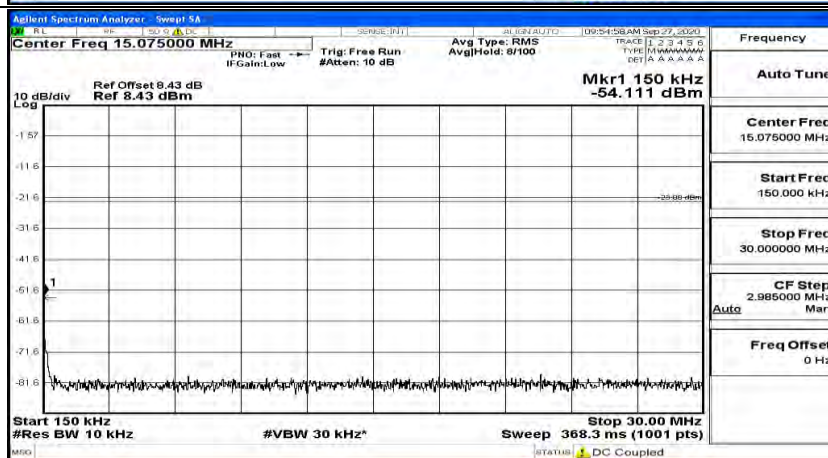
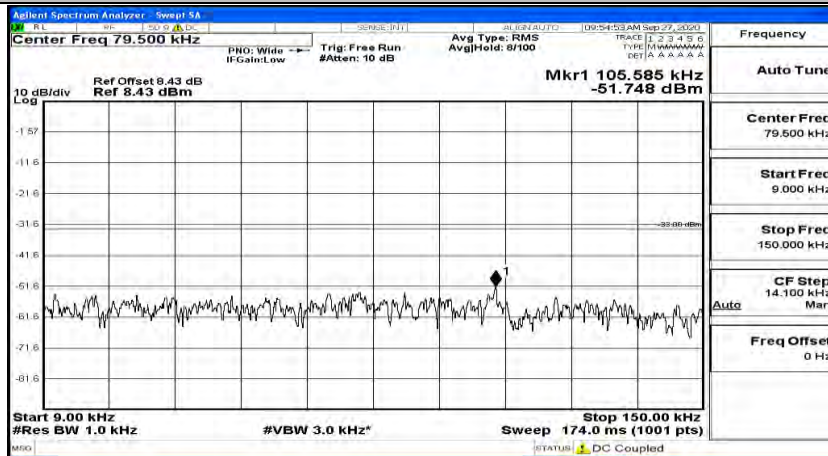




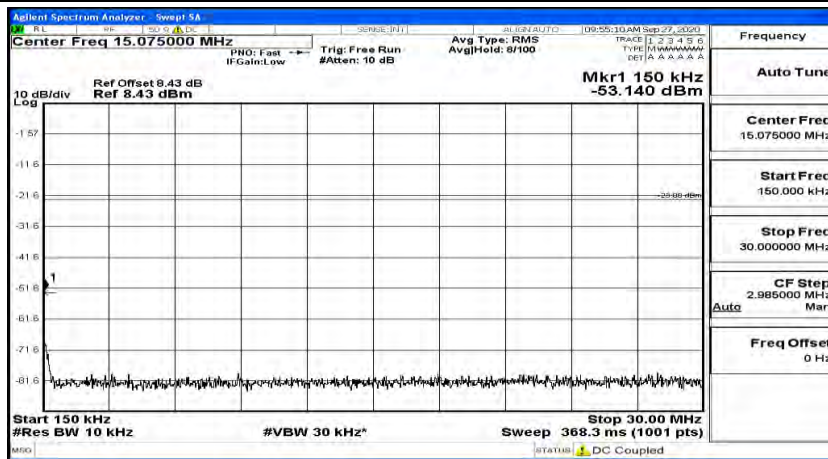
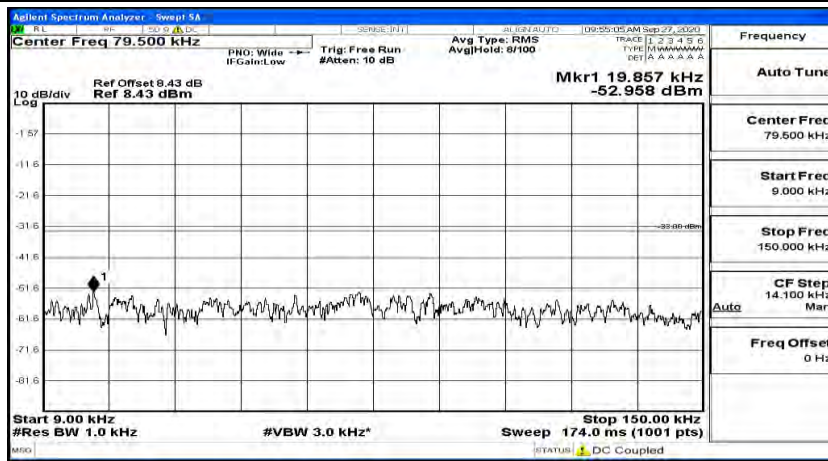
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



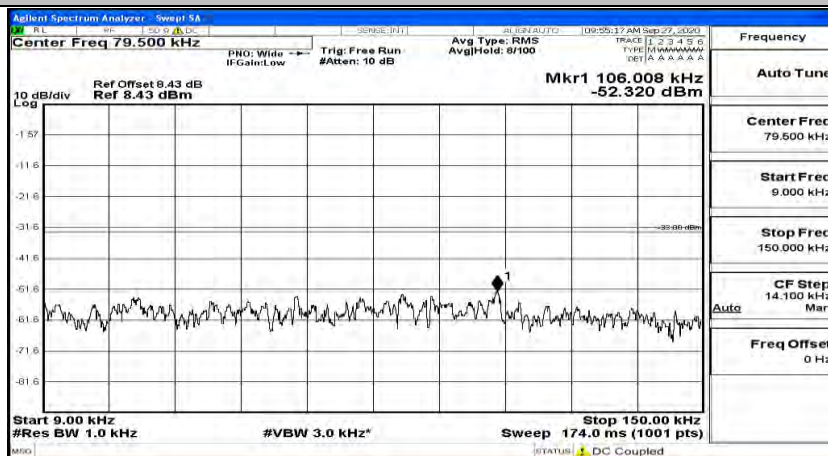
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5





Agilent Spectrum Analyzer - Sweep 5A

Center Freq 79.500 kHz

Ref Offset 8.43 dB
Ref 8.43 dBm

10 dB/div
Log

Start 9.00 kHz
#Res BW 1.0 kHz

#VBW 3.0 kHz*

Stop 150.00 kHz
Sweep 174.0 ms (1001 pts)

Mkr1 27.612 kHz
-50.369 dBm

Frequency

Auto Tune

Center Freq 79.500 kHz

Start Freq 9.000 kHz

Stop Freq 150.000 kHz

CF Step 14.100 kHz
Manual

Auto

Freq Offset 0 Hz

Traces: 1 2 3 4 5 6
Type: NAAAAA
Det: AAAAAA

09:56:14 AM Sep 27, 2000

SPARC-PI1

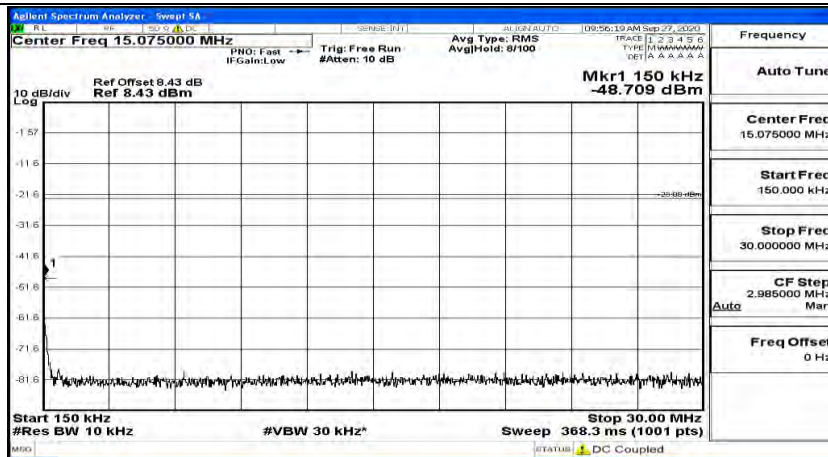
ALG: AUTO

Avg Type: RMS
Avg/Hold: 9/100

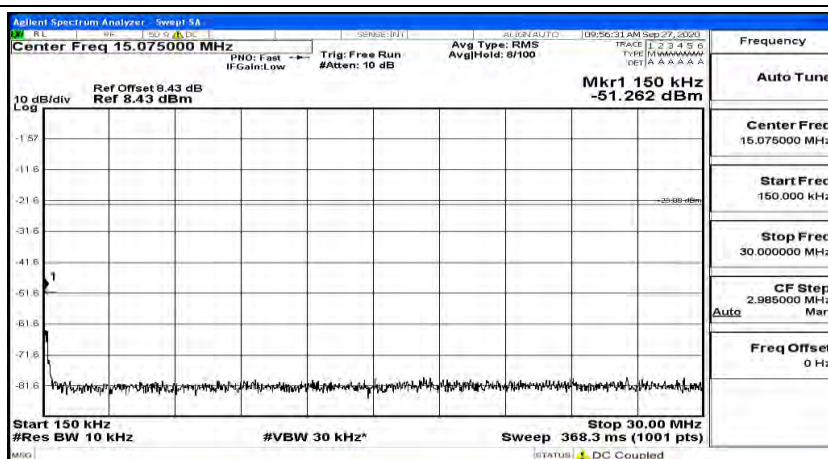
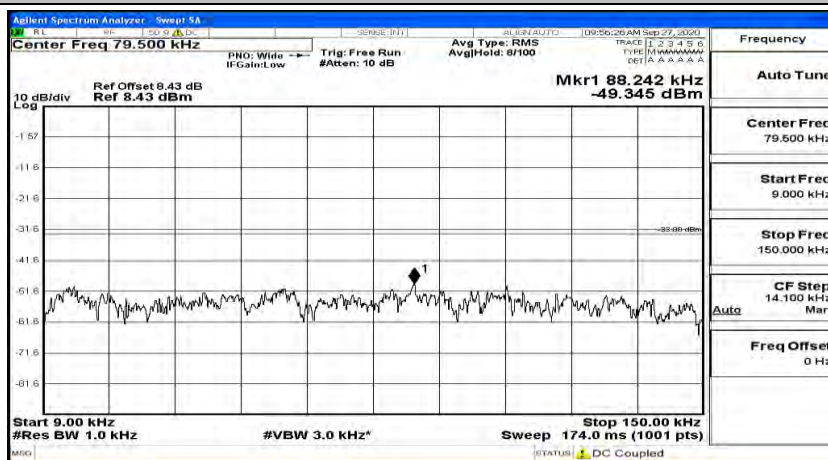
Trig: Free Run
#Atten: 10 dB

PRN: Wide
IF Gain: Low

STATUS: DC Coupled

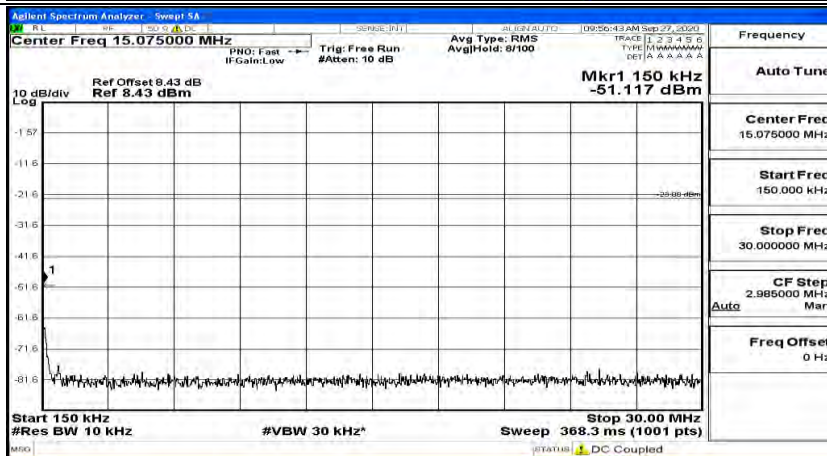
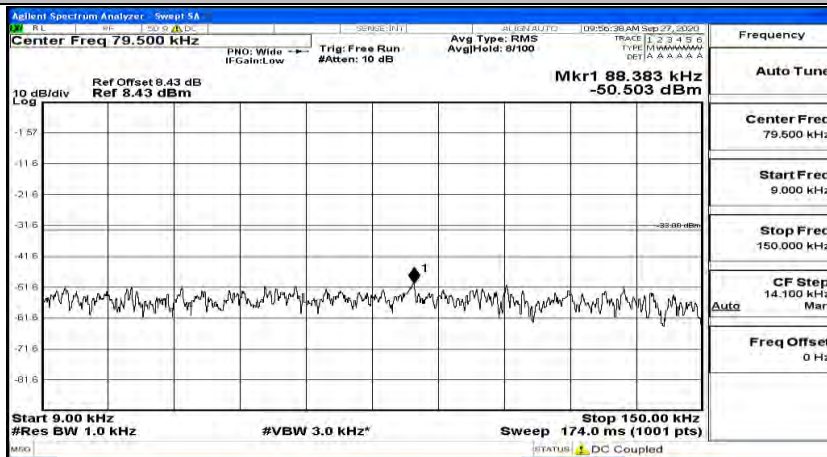


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



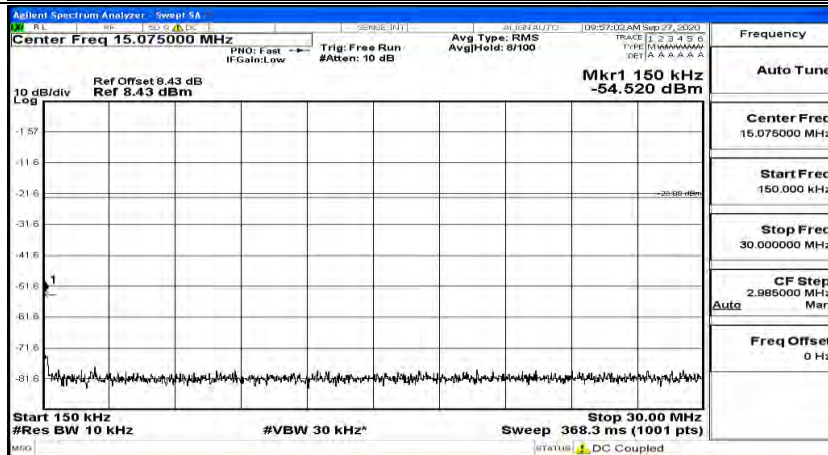
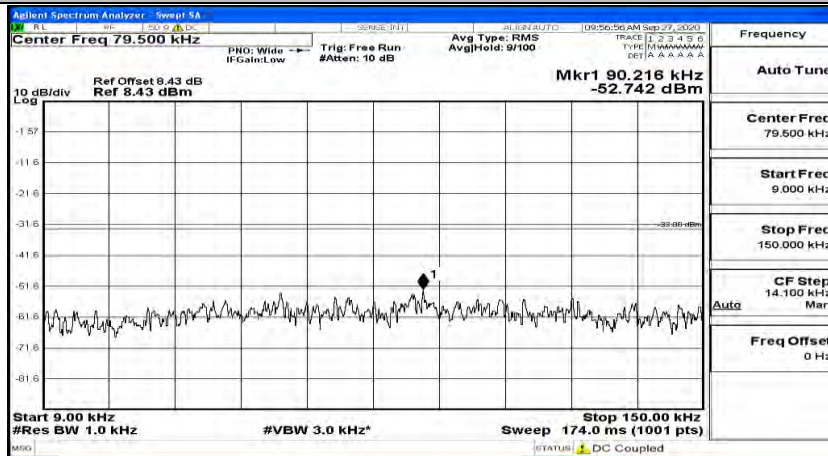


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5

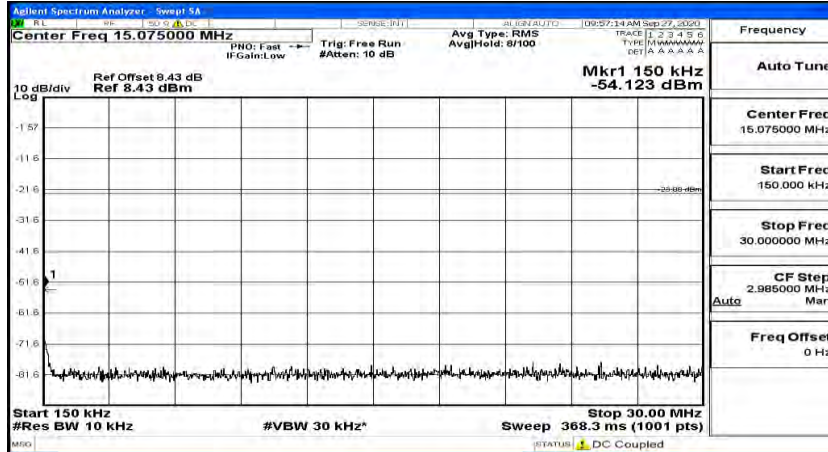
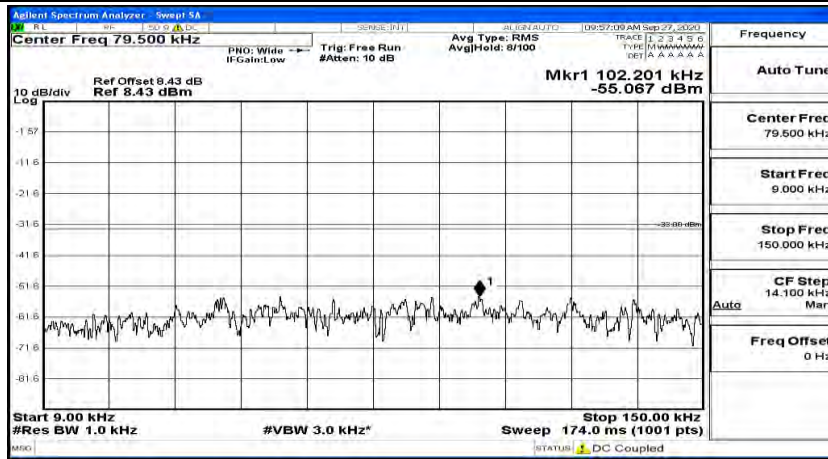


Channel Bandwidth: 3 MHz

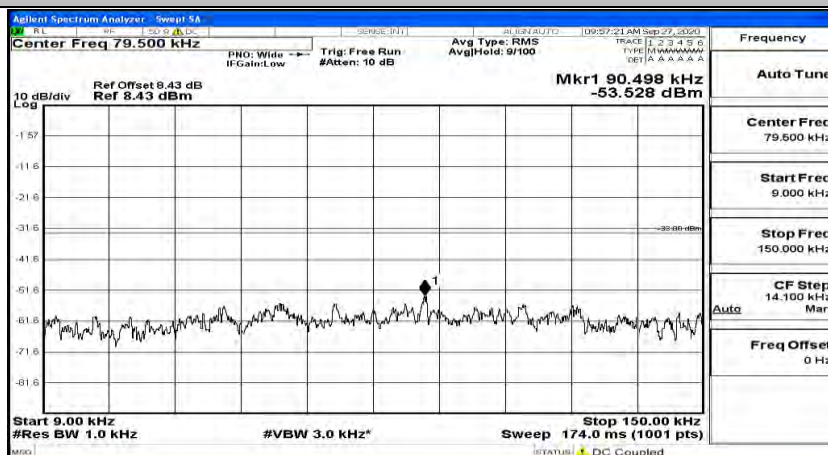
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0

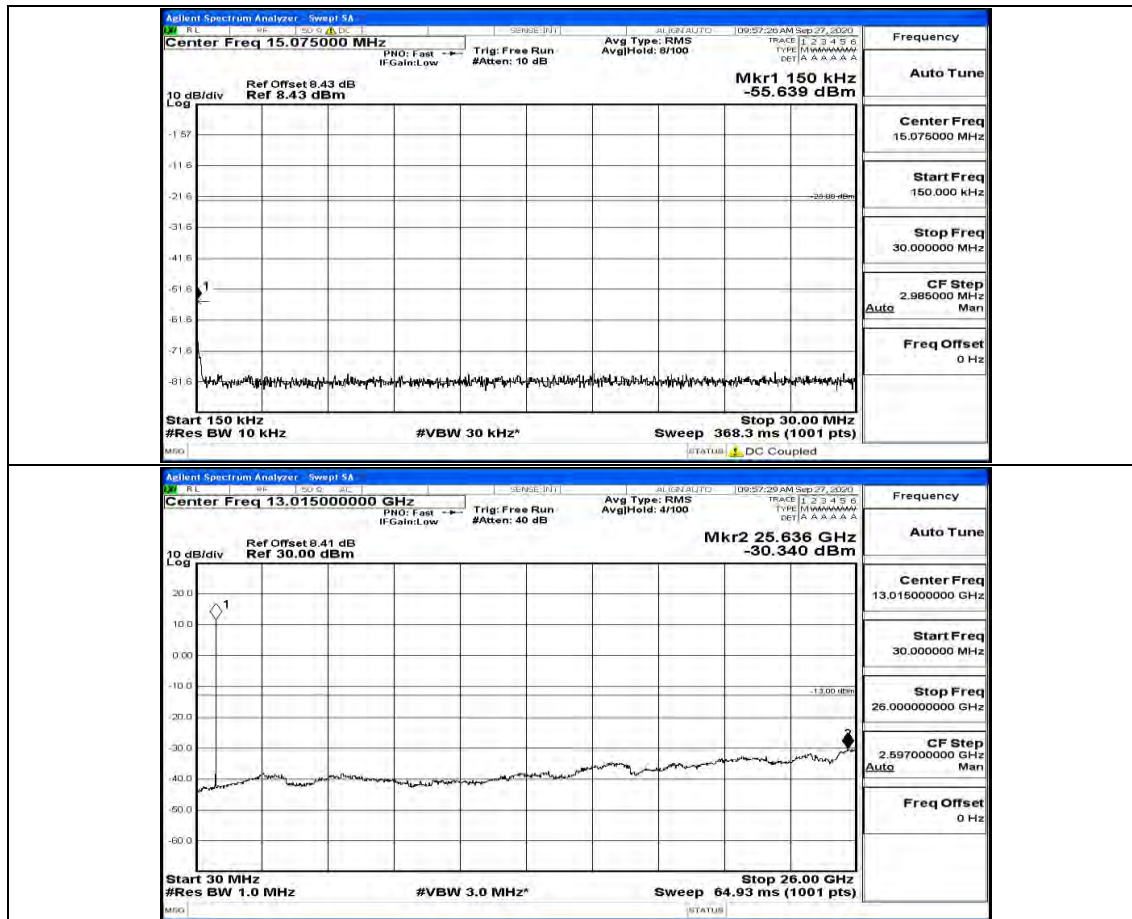


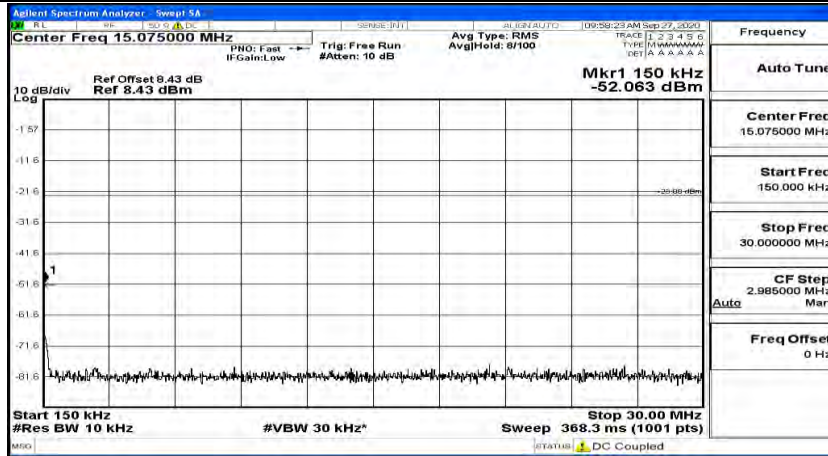
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



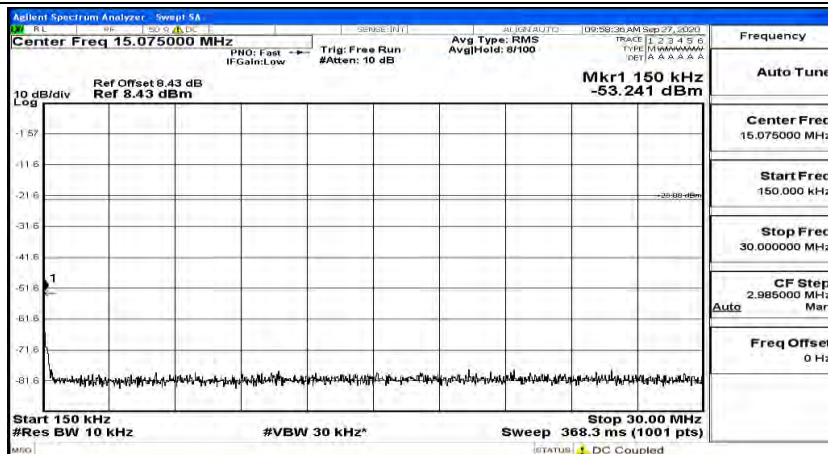
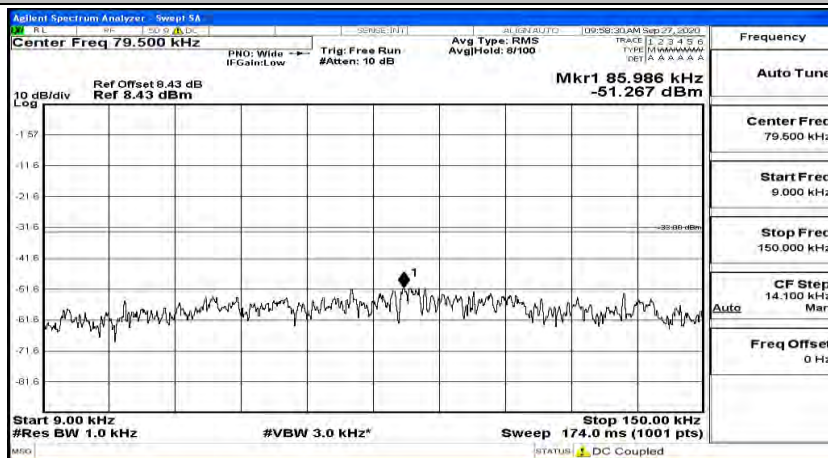
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14





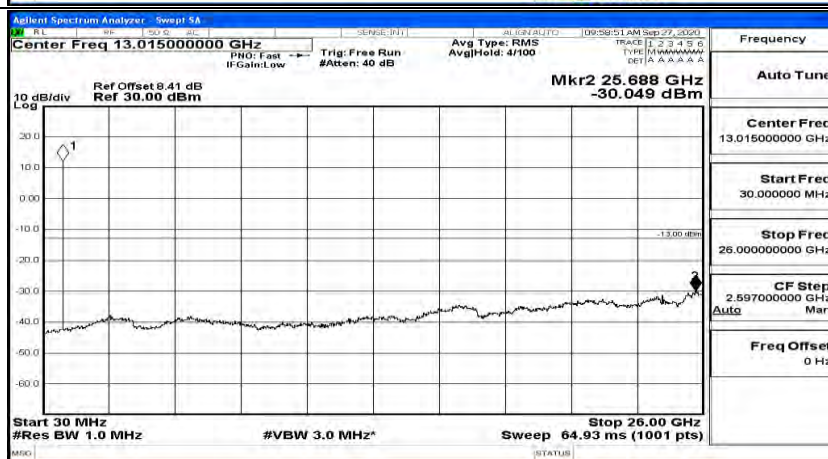
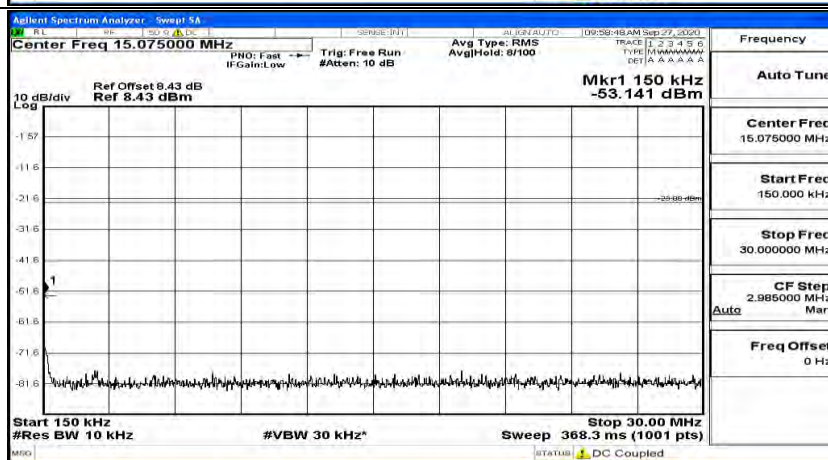
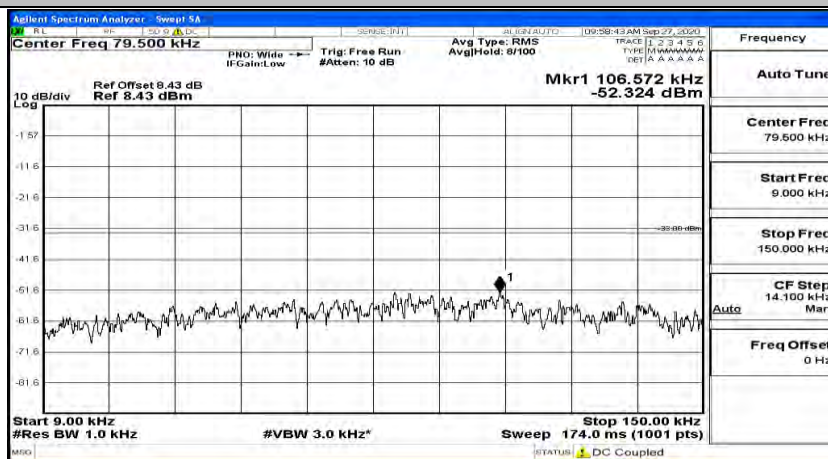


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7

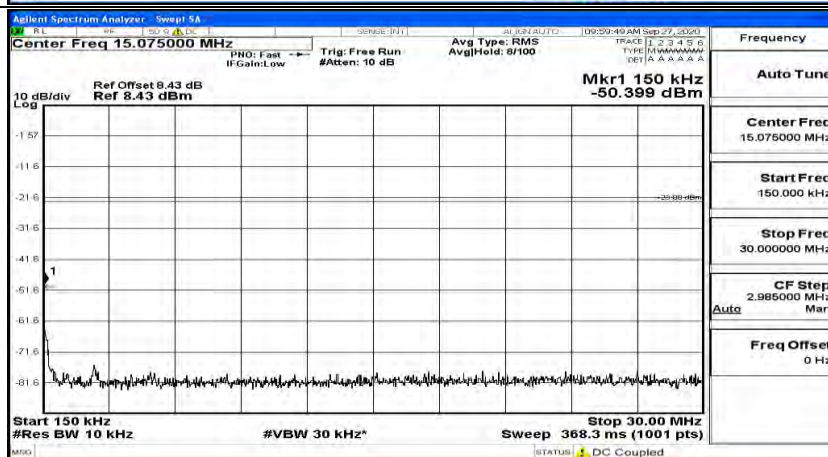
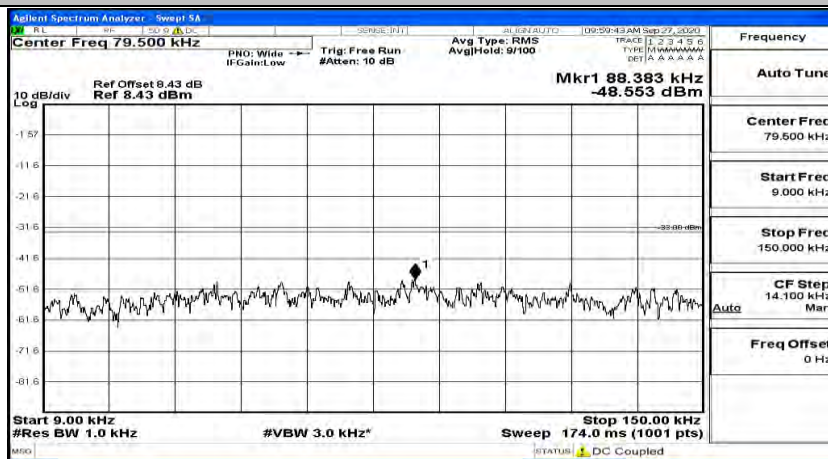




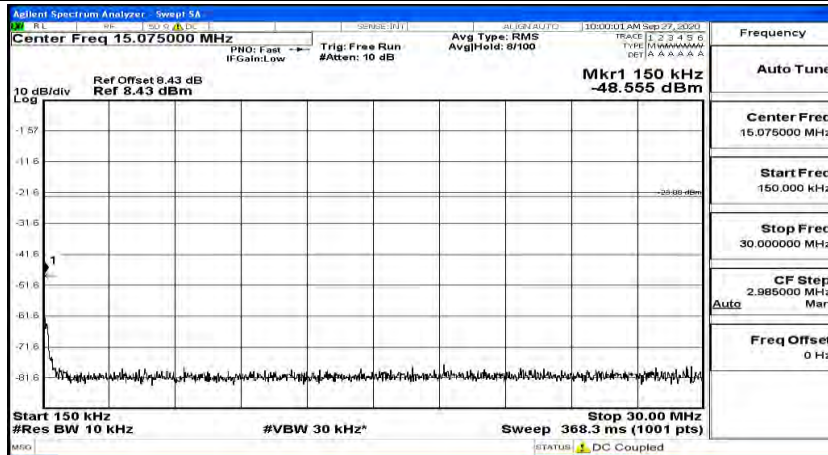
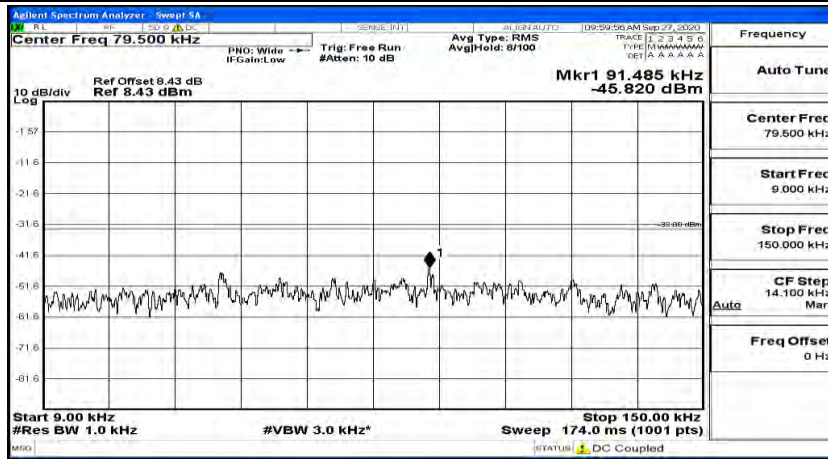
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

