Appendix K: Test Data for E-UTRA Band 12

Product Name: Smart Phone

Trade Mark: HYUNDAI

Test Model: Eternity P7

Environmental Conditions

Temperature:	22.5°C
Relative Humidity:	51.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Tom.Liu

K.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	21.85	20.53	PASS
		1	3	21.97	20.15	PASS
		1	5	22.06	20.18	PASS
		3	0	21.02	20.31	PASS
		3	2	21.09	20.32	PASS
		3	3	21.12	20.32	PASS
		6	0	20.05	19.34	PASS
	MCH	1	0	22.29	21.63	PASS
		1	3	22.48	21.77	PASS
		1	5	22.46	21.79	PASS
		3	0	22.55	21.79	PASS
		3	2	22.61	21.88	PASS
		3	3	22.63	21.87	PASS
		6	0	21.58	20.76	PASS
	HCH	1	0	22.03	21.64	PASS
		1	3	21.96	21.61	PASS
		1	5	21.91	21.52	PASS
		3	0	22.16	21.26	PASS
		3	2	22.14	21.24	PASS
		3	3	22.08	21.22	PASS
		6	0	21.17	20.27	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	20.84	20.03	PASS
		1	7	21.19	20.34	PASS
		1	14	21.32	20.45	PASS
		8	0	20.14	19.12	PASS
		8	4	20.31	19.32	PASS
		8	7	20.38	19.42	PASS
		15	0	20.26	19.37	PASS
	MCH	1	0	22.32	21.52	PASS
		1	7	22.67	21.85	PASS
		1	14	22.67	21.83	PASS
		8	0	21.61	20.71	PASS
		8	4	21.71	20.85	PASS
		8	7	21.82	20.94	PASS
		15	0	21.79	20.89	PASS
	HCH	1	0	22.57	21.77	PASS
		1	7	22.50	21.71	PASS
		1	14	22.11	21.29	PASS
		8	0	21.67	20.83	PASS
		8	4	21.52	20.69	PASS
		8	7	21.47	20.63	PASS
		15	0	21.56	20.57	PASS

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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	20.95	20.17	PASS
		1	12	21.44	20.66	PASS
		1	24	21.82	21.06	PASS
		12	0	20.09	19.03	PASS
		12	6	20.47	19.39	PASS
		12	13	20.50	19.40	PASS
		25	0	20.30	19.36	PASS
	MCH	1	0	22.20	21.44	PASS
		1	12	22.68	21.90	PASS
		1	24	22.79	21.99	PASS
		12	0	21.50	20.42	PASS
		12	6	21.70	20.64	PASS
		12	13	22.00	20.94	PASS
		25	0	21.80	20.82	PASS
	HCH	1	0	22.73	22.09	PASS
		1	12	22.67	22.04	PASS
		1	24	22.15	21.49	PASS
		12	0	21.91	20.96	PASS
		12	6	21.69	20.74	PASS
		12	13	21.59	20.63	PASS
		25	0	21.74	20.82	PASS

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Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.14	20.32	PASS
		1	24	21.99	21.16	PASS
		1	49	22.84	22.00	PASS
		25	0	20.69	19.75	PASS
		25	12	21.00	20.06	PASS
		25	25	21.48	20.53	PASS
		50	0	20.99	20.04	PASS
	MCH	1	0	21.86	21.02	PASS
		1	24	22.72	21.88	PASS
		1	49	22.88	21.98	PASS
		25	0	21.56	20.64	PASS
		25	12	21.73	20.77	PASS
		25	25	22.09	21.14	PASS
		50	0	21.89	20.96	PASS
	HCH	1	0	22.58	21.82	PASS
		1	24	22.83	22.04	PASS
		1	49	22.32	21.51	PASS
		25	0	21.54	20.59	PASS
		25	12	21.81	20.88	PASS
		25	25	21.55	20.60	PASS
		50	0	21.55	20.55	PASS

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K.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	5.57	<13	PASS
	MCH	5.6	<13	PASS
	HCH	5.39	<13	PASS
16QAM	LCH	6.46	<13	PASS
	MCH	6.57	<13	PASS
	HCH	6.27	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.43	<13	PASS
	MCH	5.64	<13	PASS
	HCH	5.55	<13	PASS
16QAM	LCH	6.4	<13	PASS
	MCH	6.63	<13	PASS
	HCH	6.26	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.39	<13	PASS
	MCH	5.72	<13	PASS
	HCH	5.55	<13	PASS
16QAM	LCH	6.21	<13	PASS
	MCH	6.52	<13	PASS
	HCH	6.34	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.71	<13	PASS
	MCH	5.77	<13	PASS
	HCH	5.35	<13	PASS
16QAM	LCH	6.44	<13	PASS
	MCH	6.51	<13	PASS
	HCH	6.17	<13	PASS

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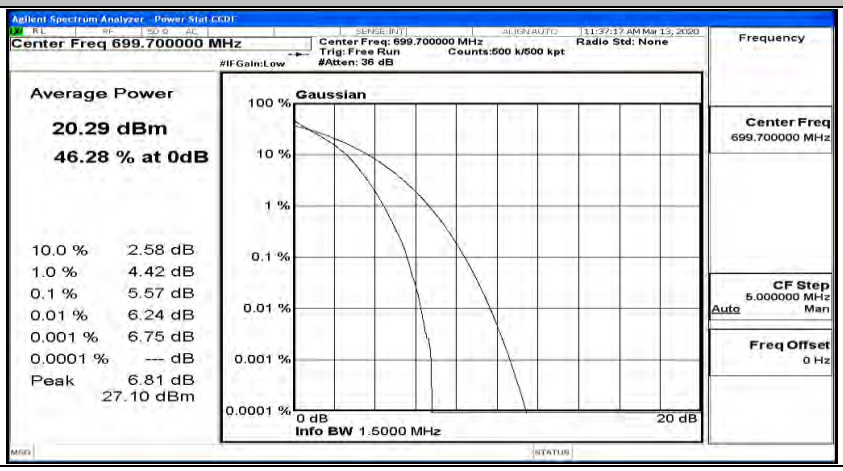
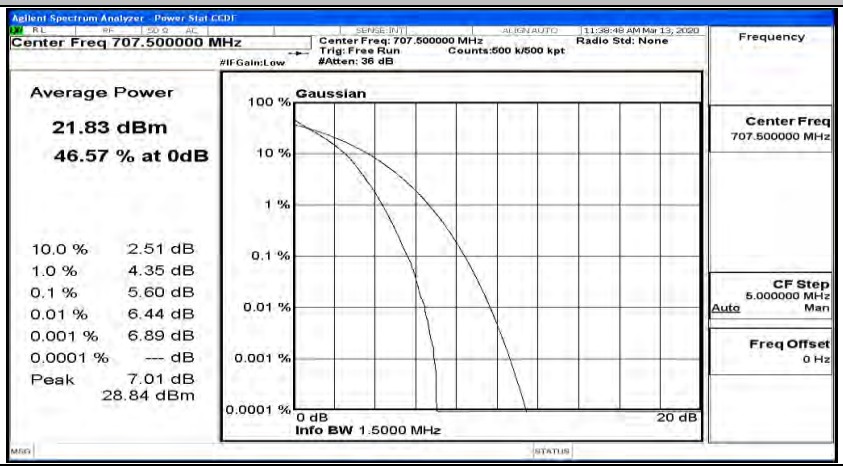
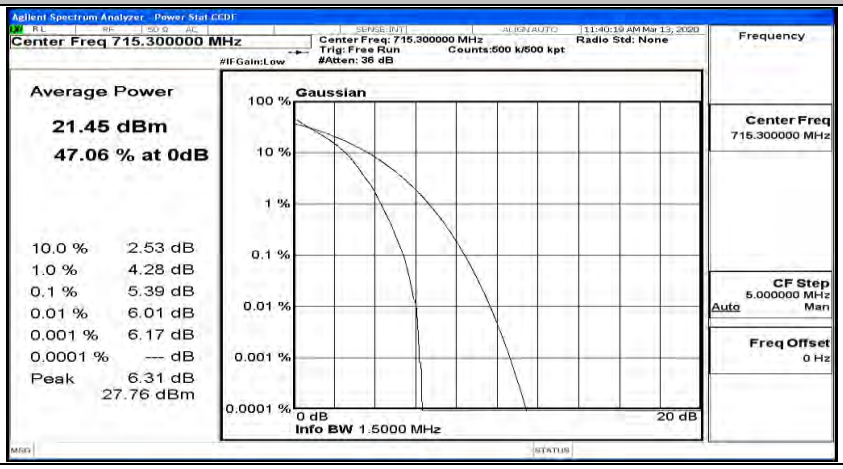
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



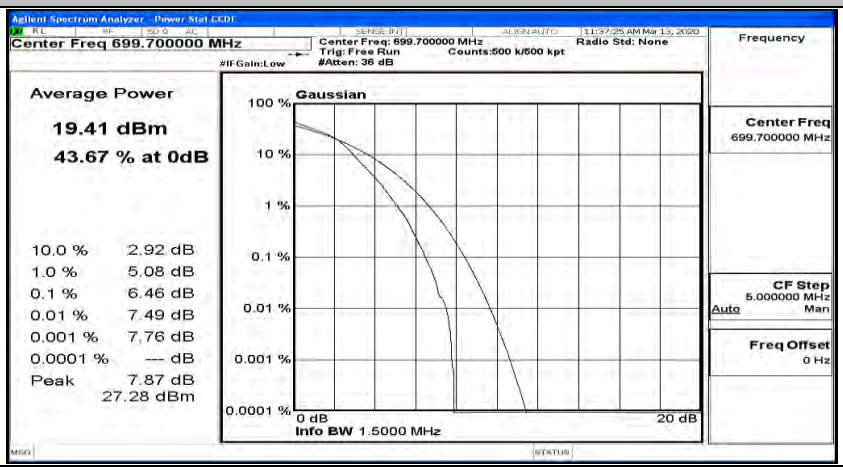
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



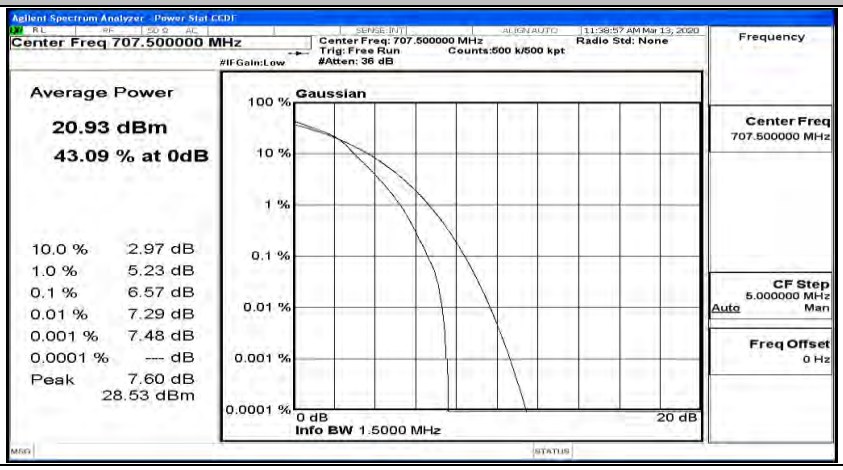
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



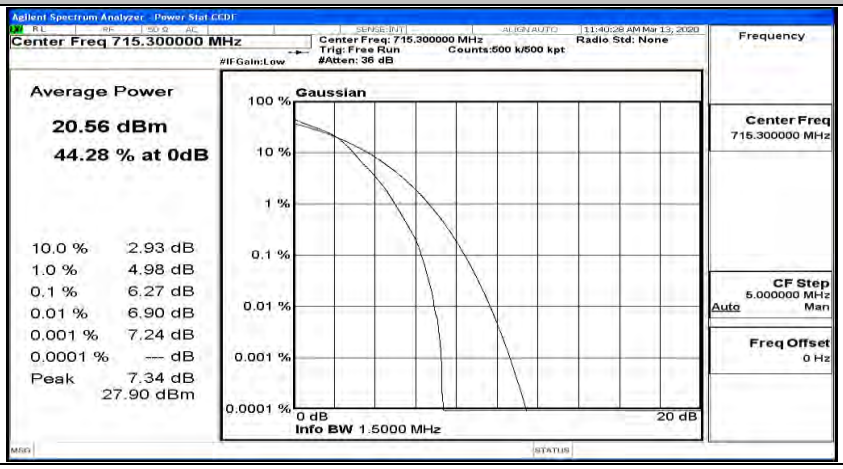
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



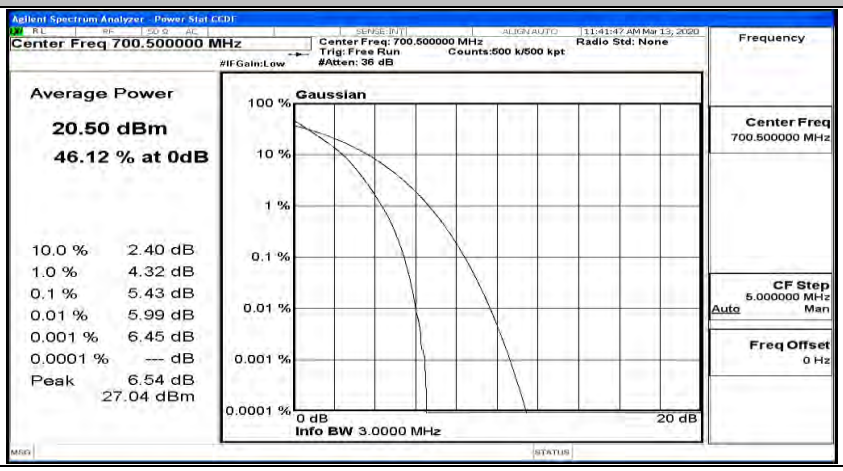
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



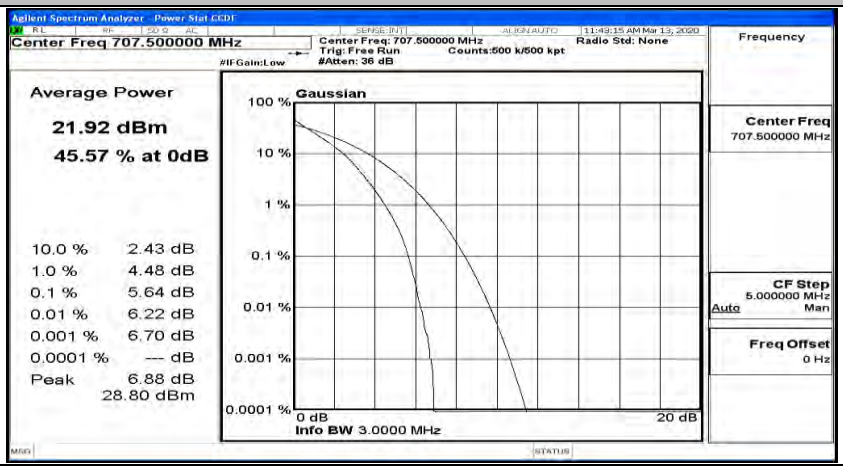
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



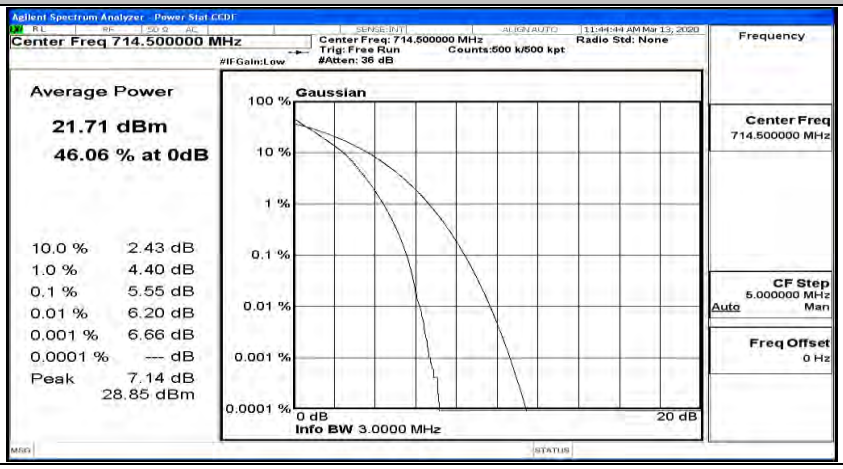
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



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



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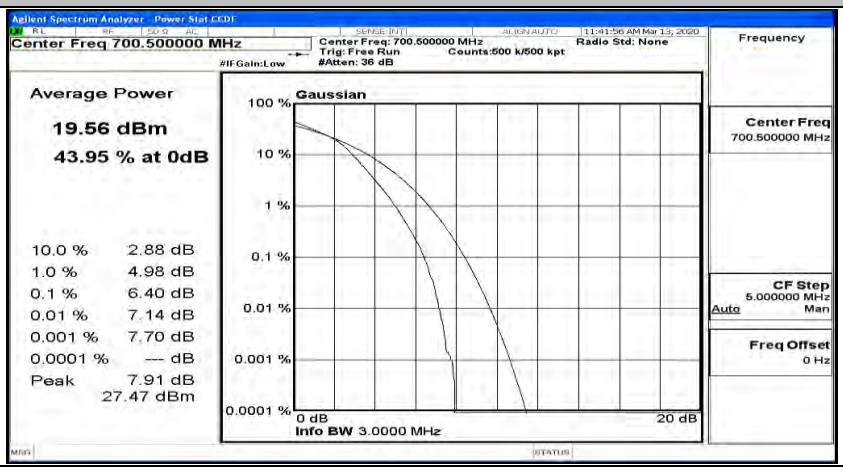
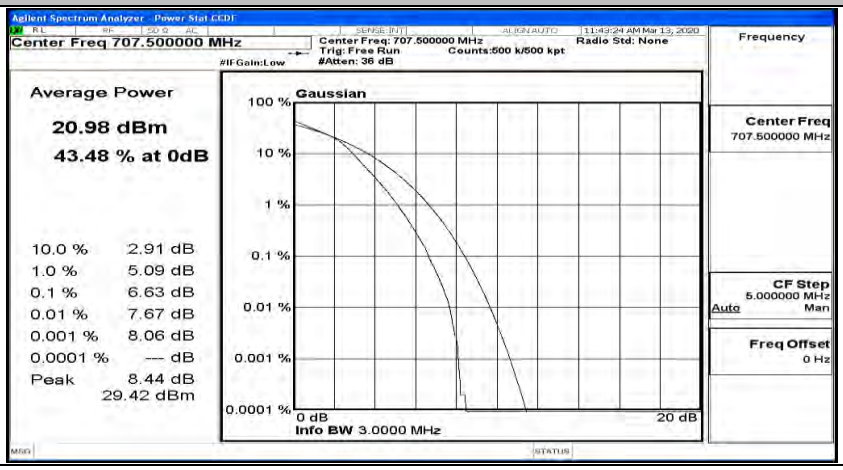
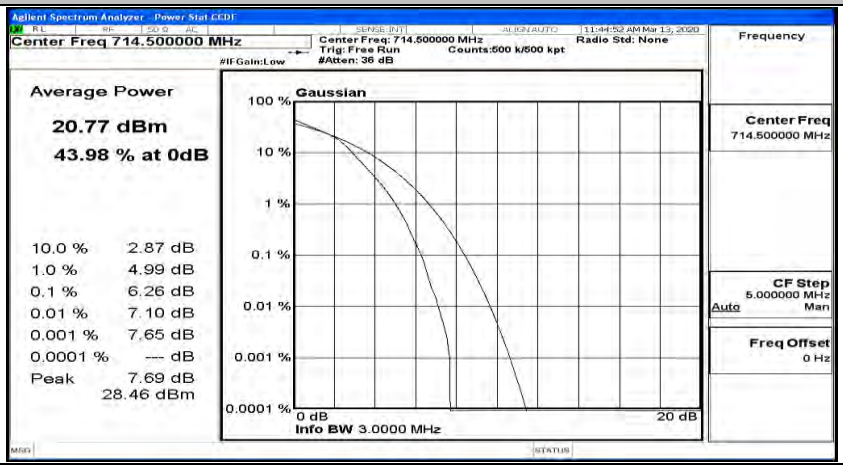
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



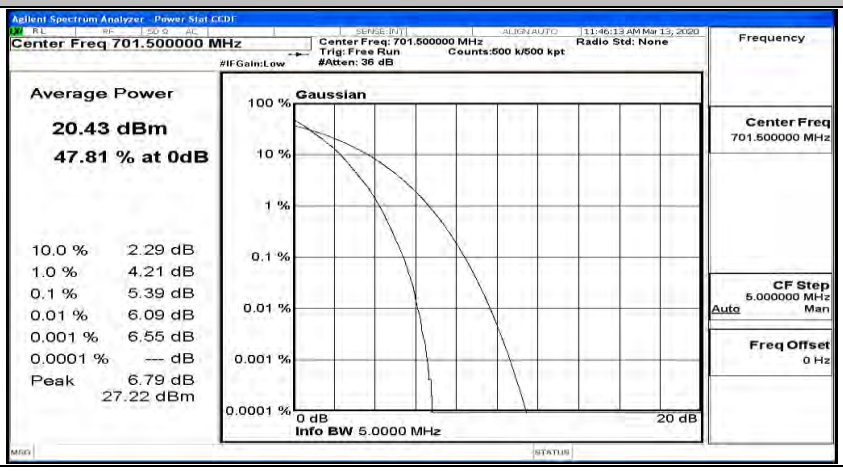
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM



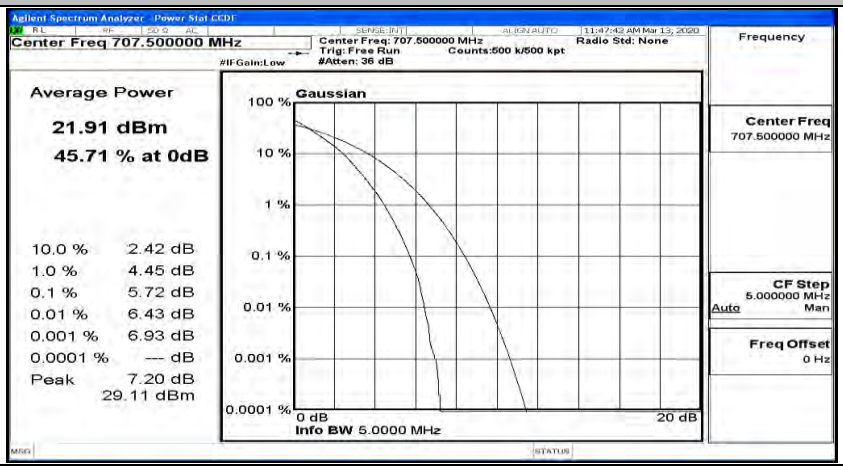
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



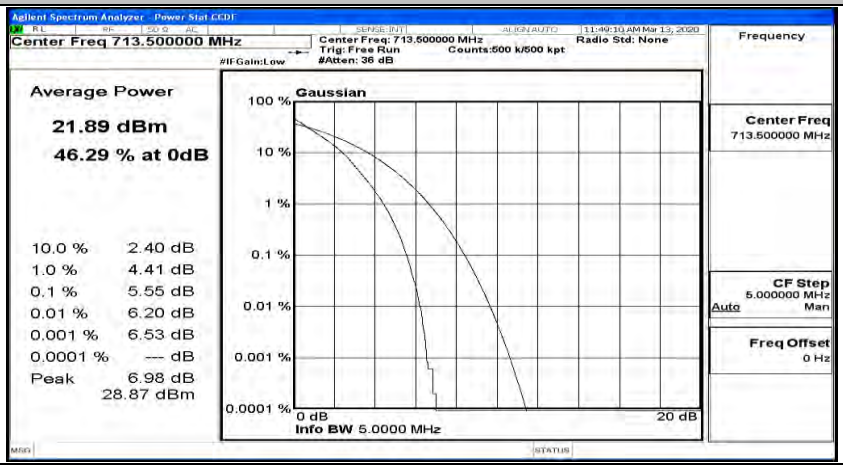
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



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



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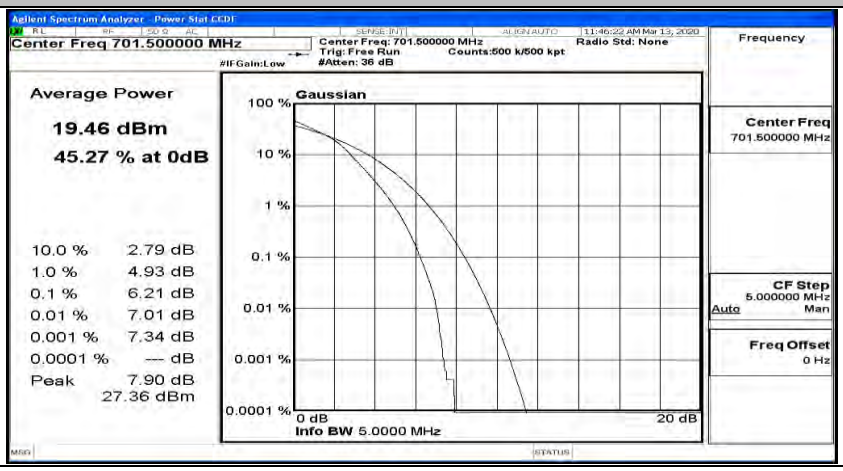
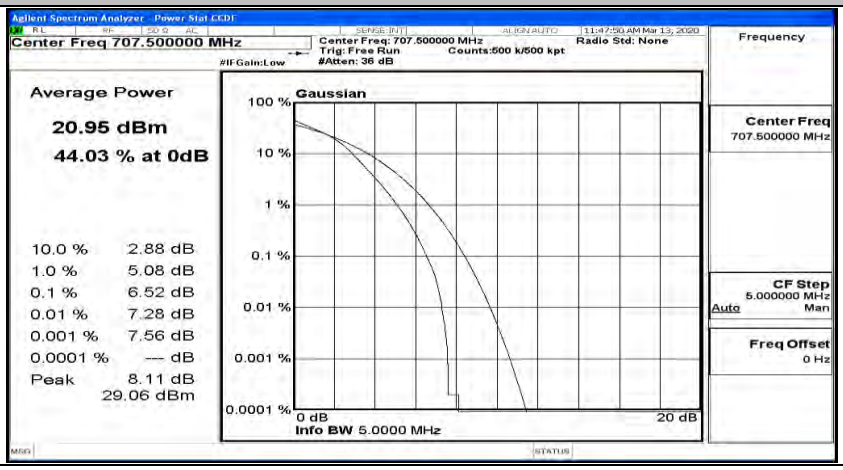
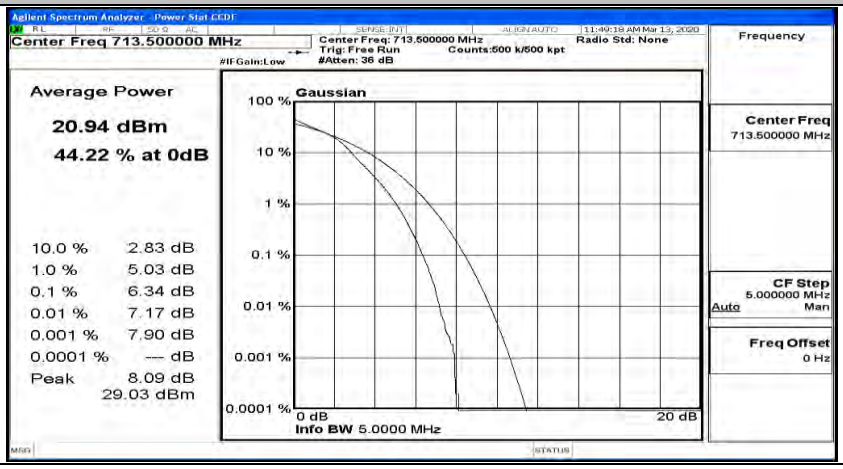
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



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



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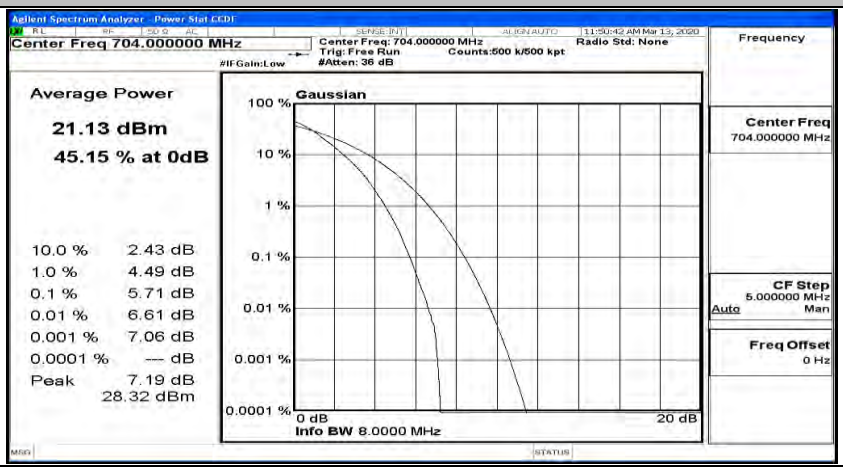
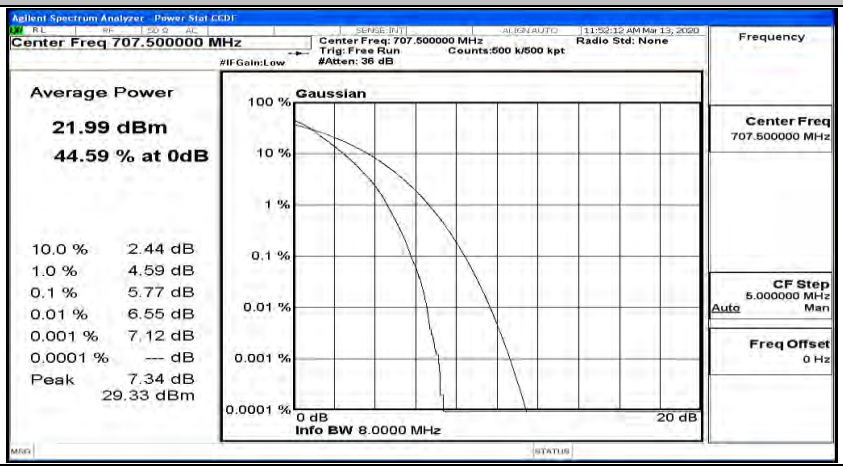
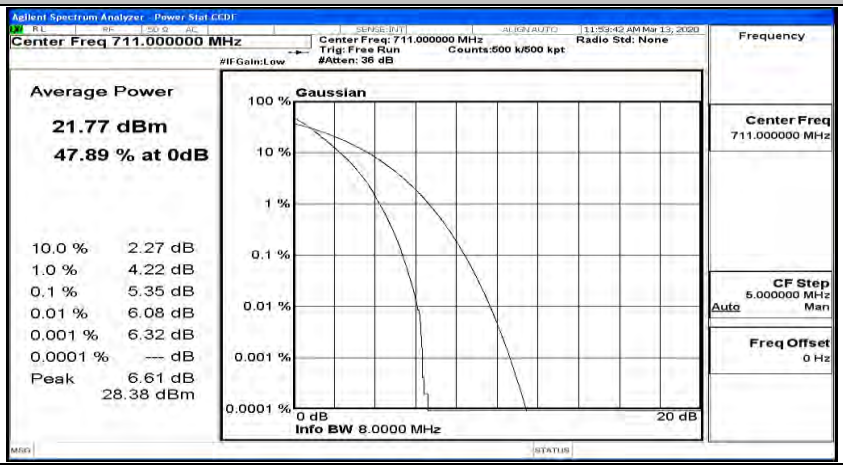
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



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



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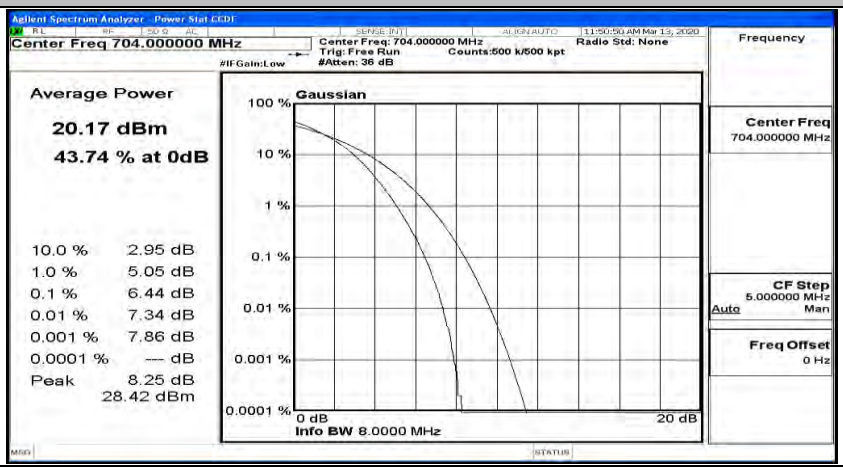
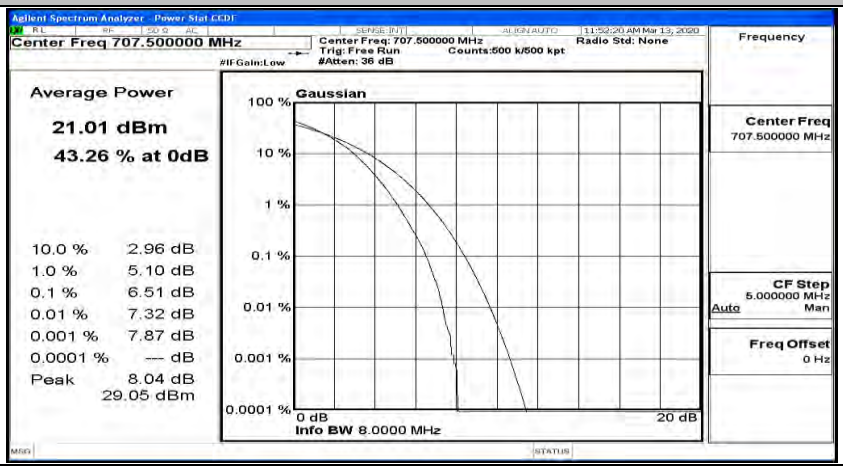
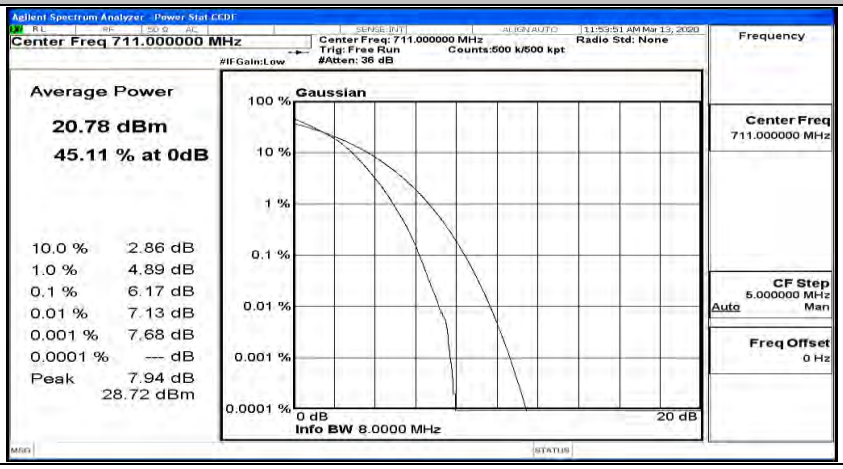
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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



K.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	1.0782	1.209	PASS
	MCH	1.0777	1.202	PASS
	HCH	1.0777	1.218	PASS
16QAM	LCH	1.0740	1.213	PASS
	MCH	1.0756	1.200	PASS
	HCH	1.0777	1.218	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6768	2.858	PASS
	MCH	2.6821	2.870	PASS
	HCH	2.6894	2.893	PASS
16QAM	LCH	2.6779	2.874	PASS
	MCH	2.6864	2.867	PASS
	HCH	2.6849	2.861	PASS

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4618	4.772	PASS
	MCH	4.4697	4.818	PASS
	HCH	4.4837	4.810	PASS
16QAM	LCH	4.4591	4.748	PASS
	MCH	4.4742	4.799	PASS
	HCH	4.4828	4.813	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9410	9.423	PASS
	MCH	8.9567	9.440	PASS
	HCH	8.9213	9.417	PASS
16QAM	LCH	8.9426	9.449	PASS
	MCH	8.9577	9.464	PASS
	HCH	8.9167	9.382	PASS

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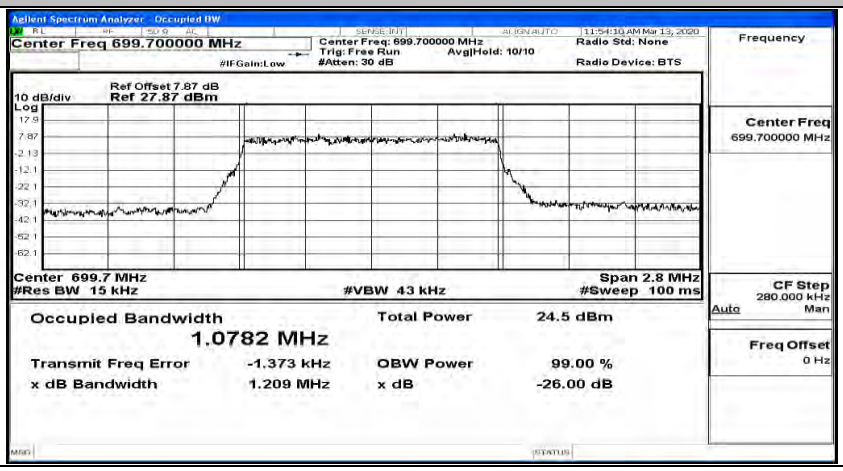
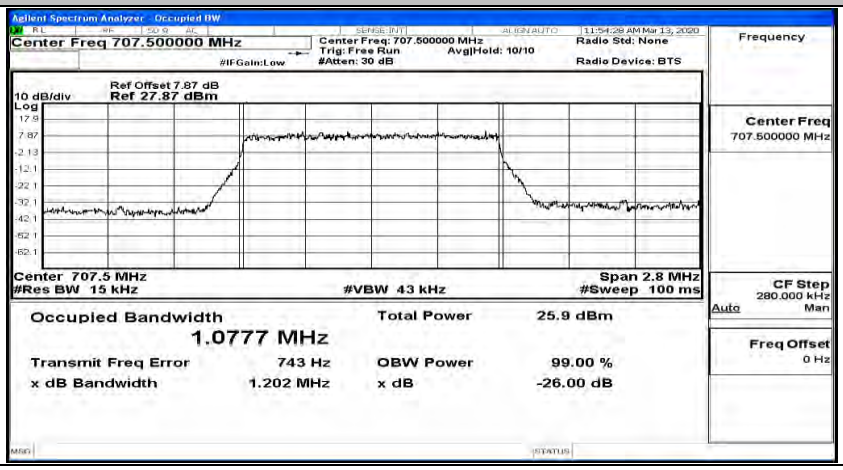
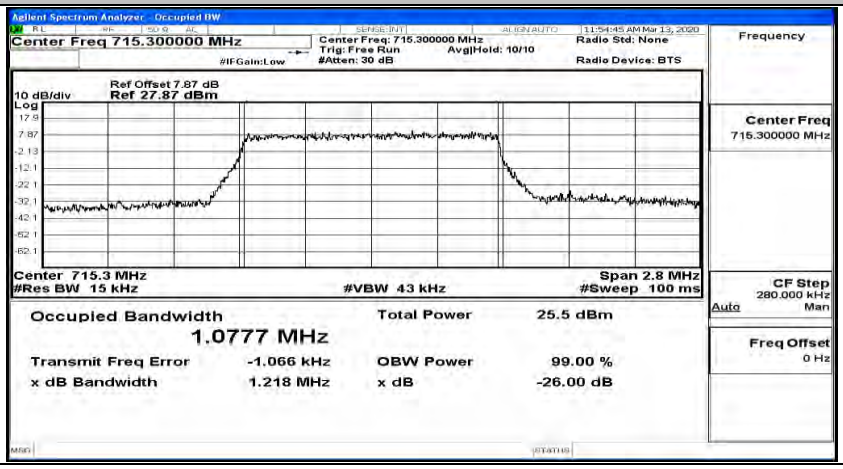
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



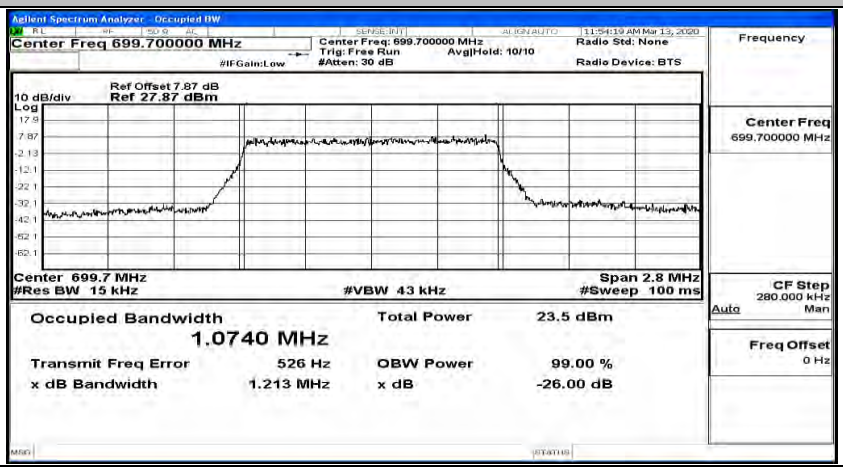
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK



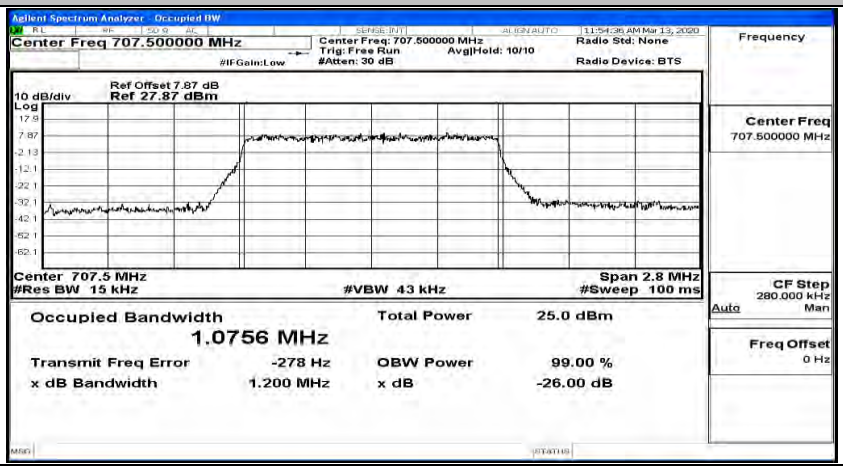
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



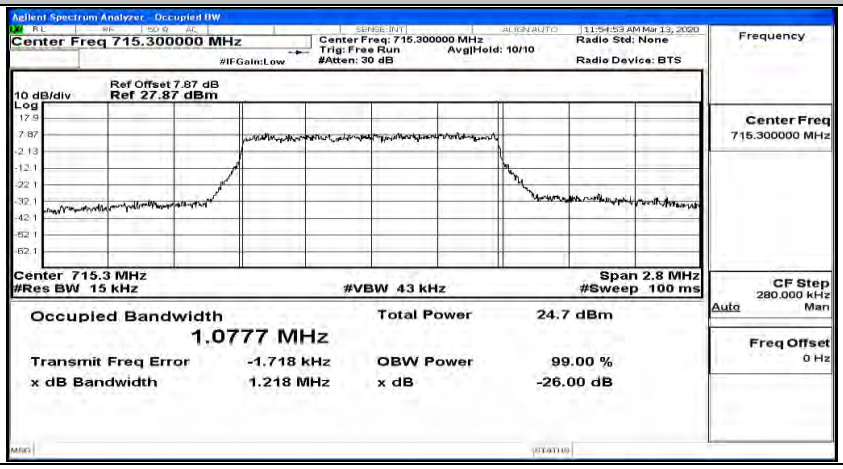
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



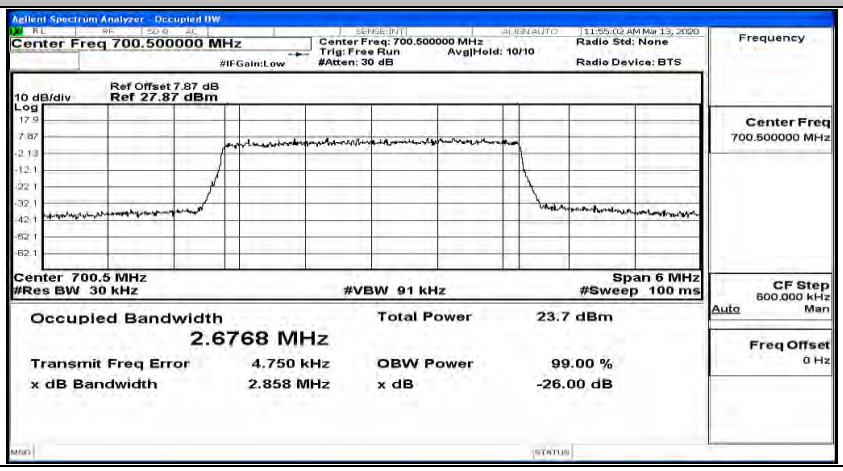
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM



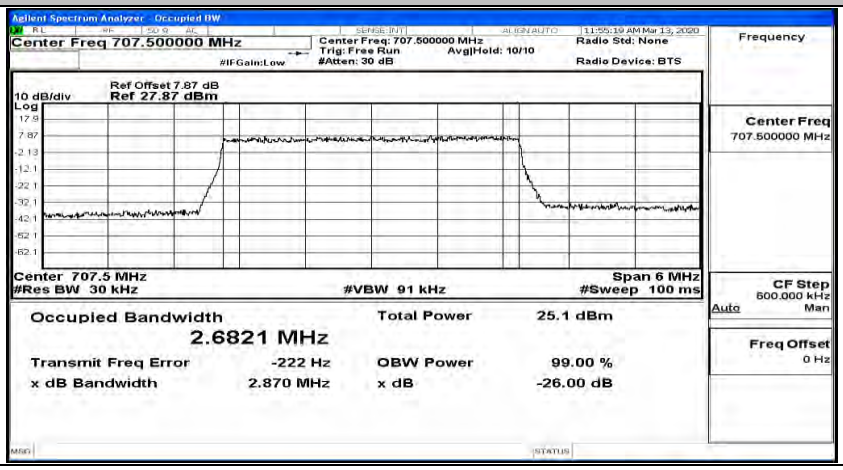
EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



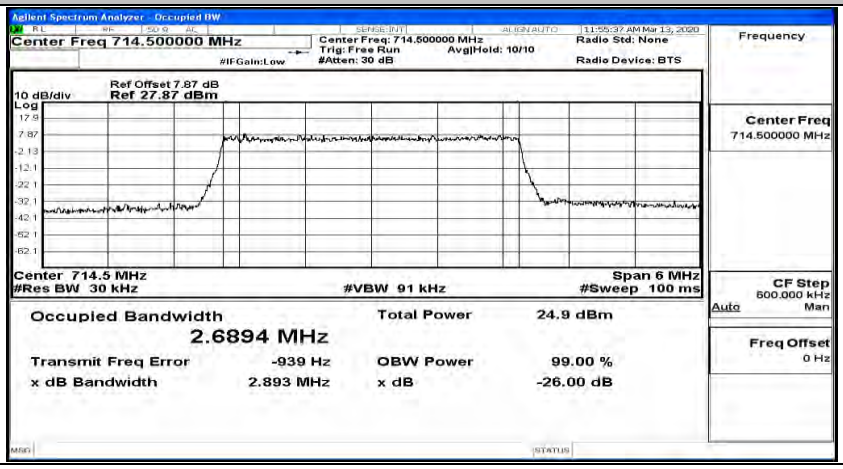
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



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



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



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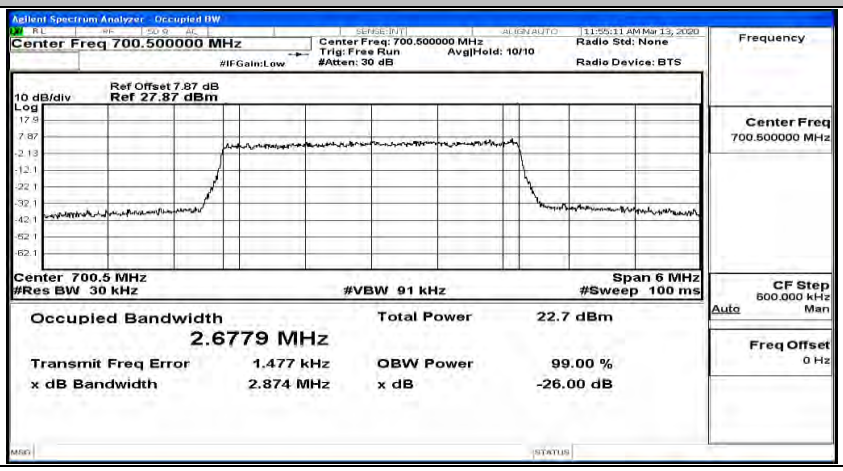
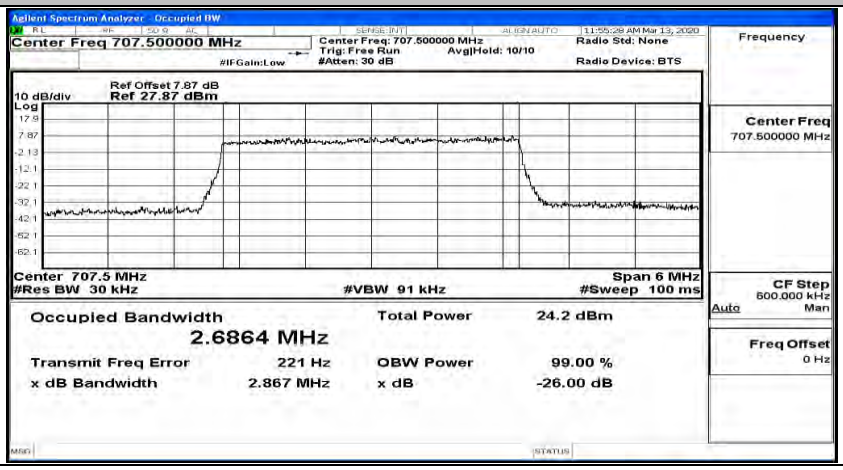
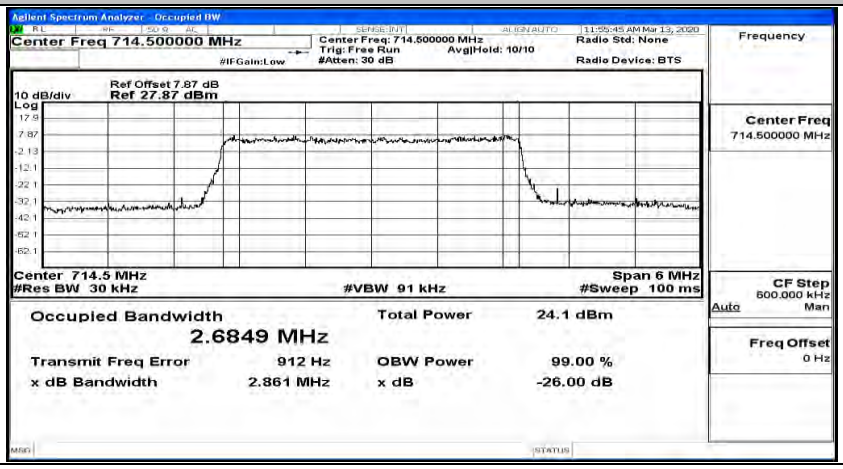
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



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



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



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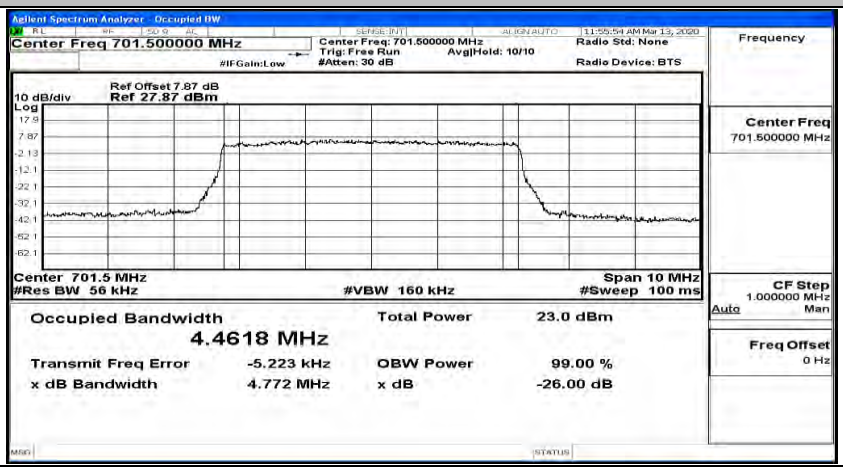
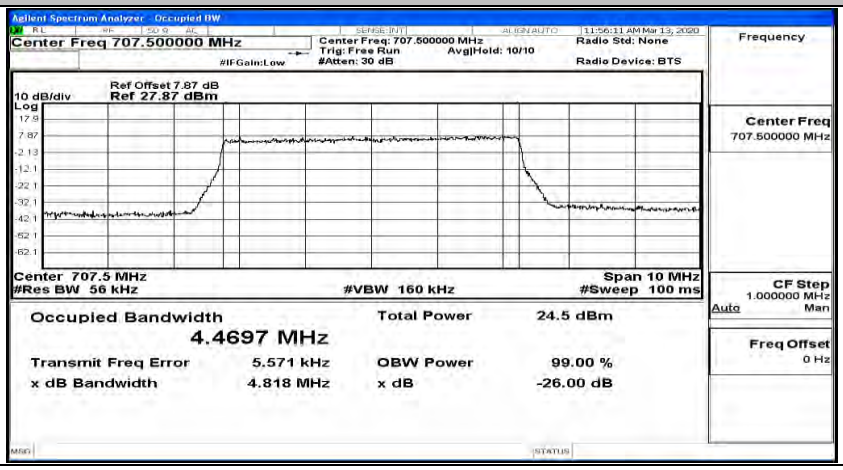
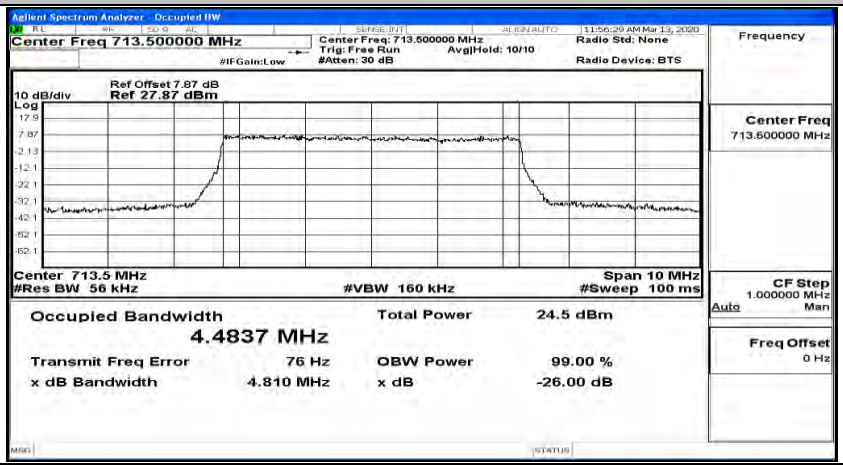
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



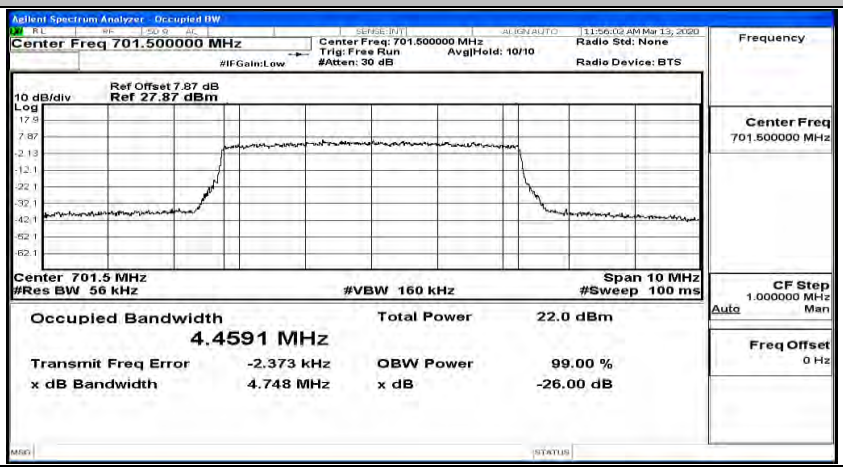
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



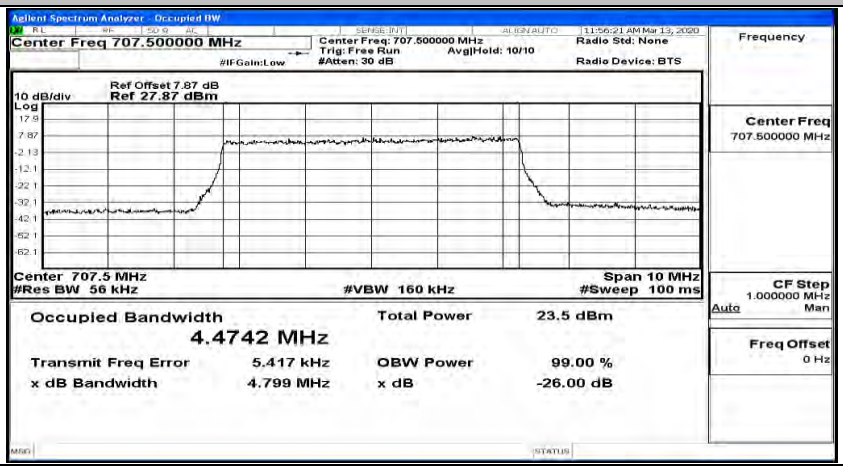
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



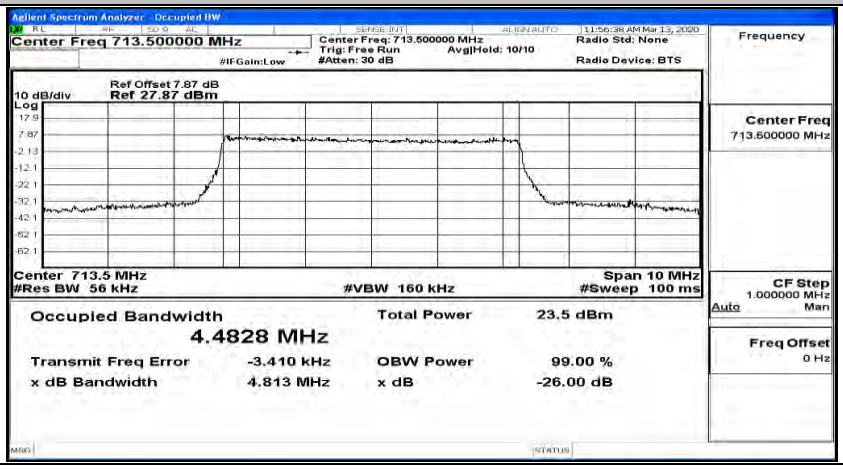
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



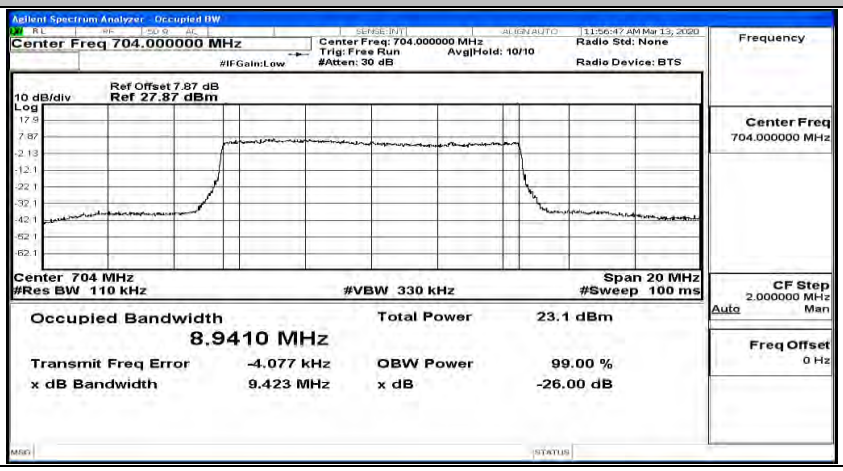
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



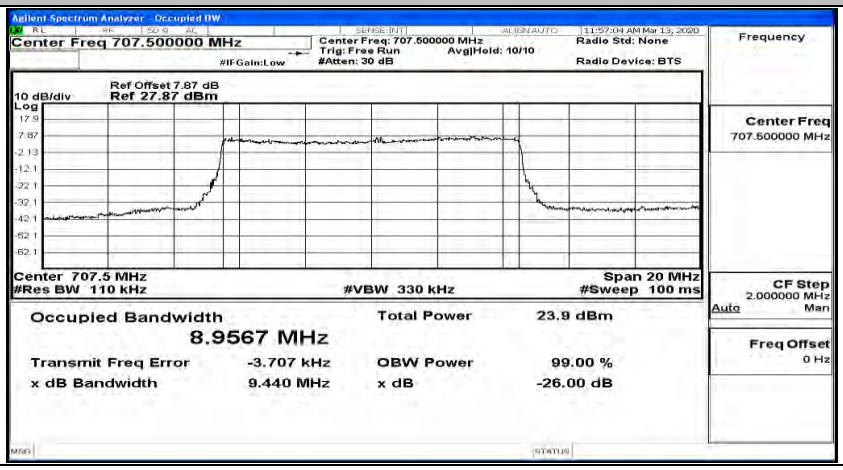
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



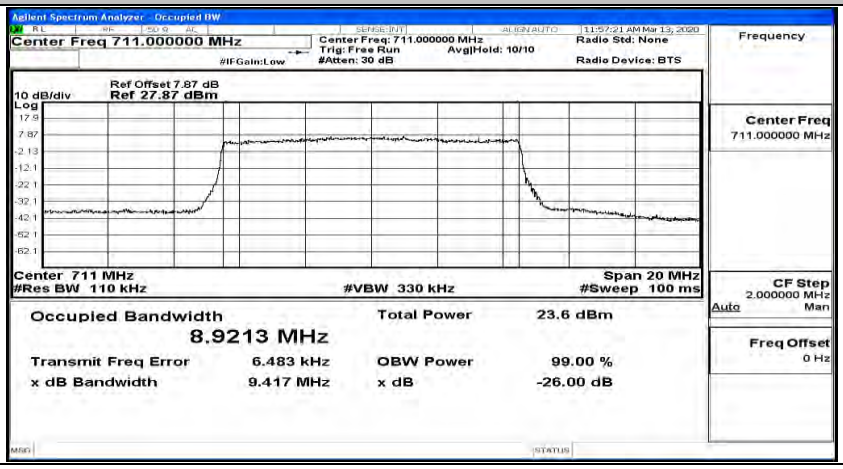
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



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



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



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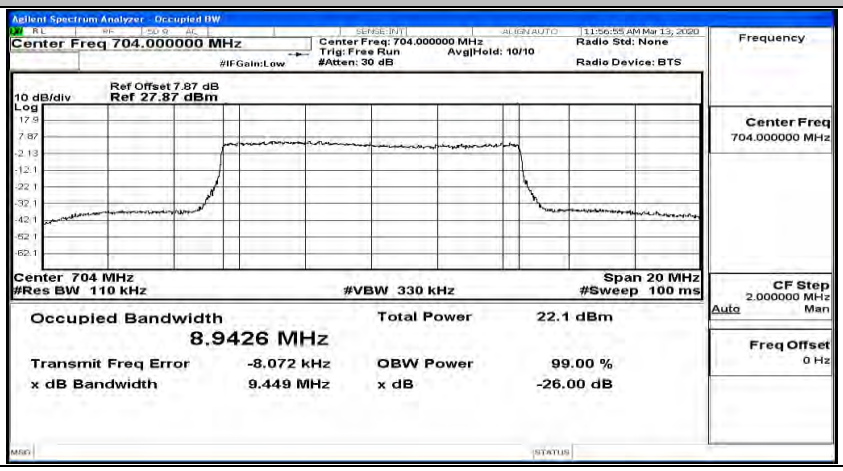
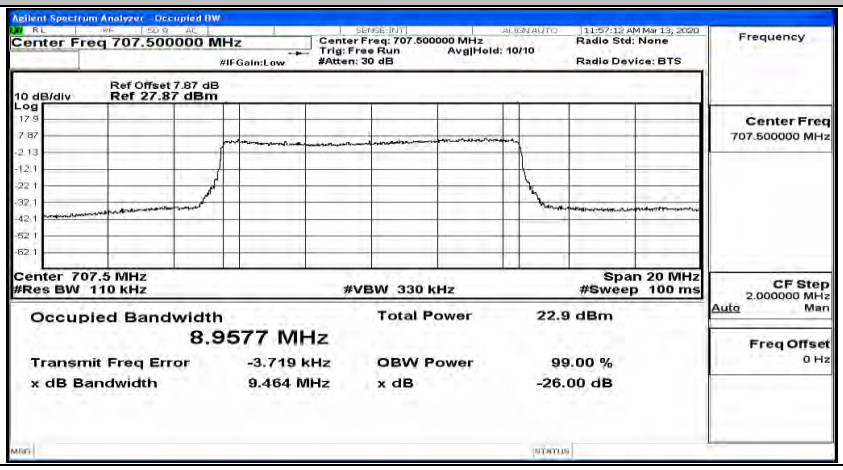
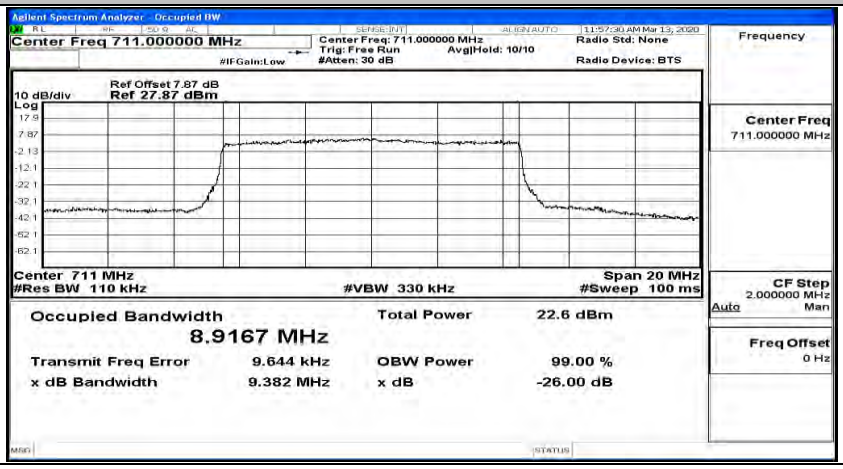
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

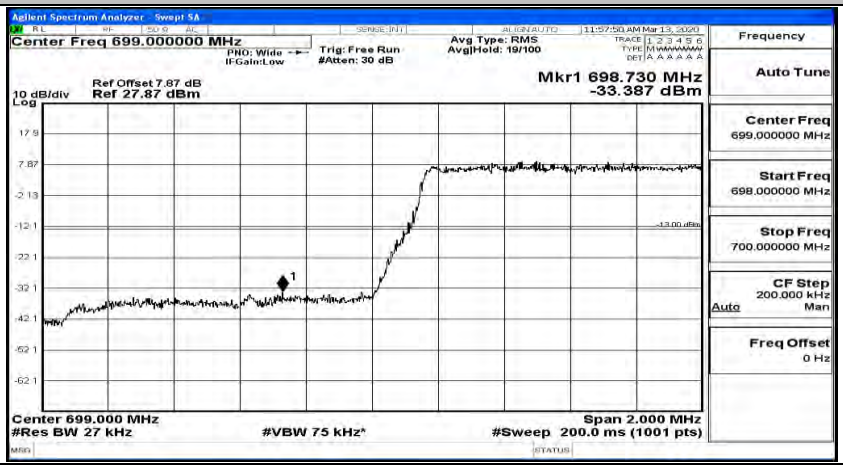


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

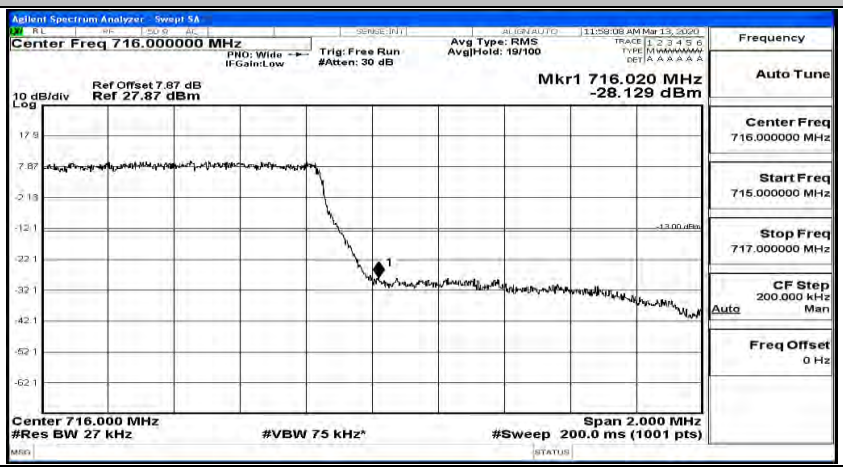


K.4 Band Edge

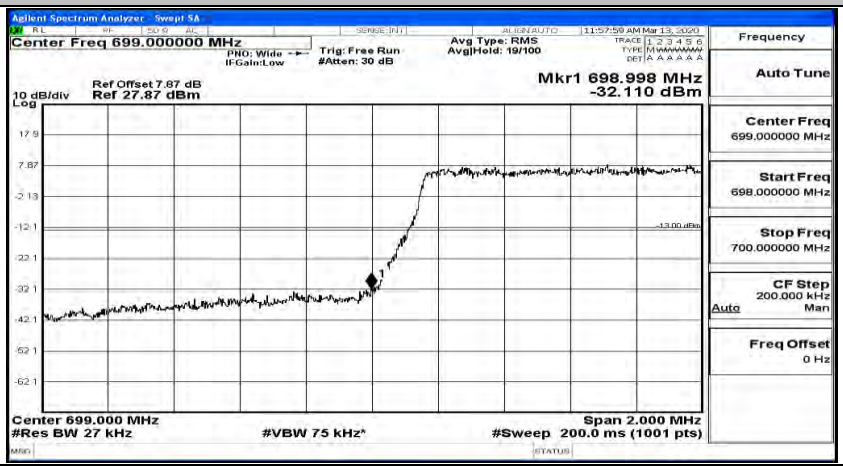
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK



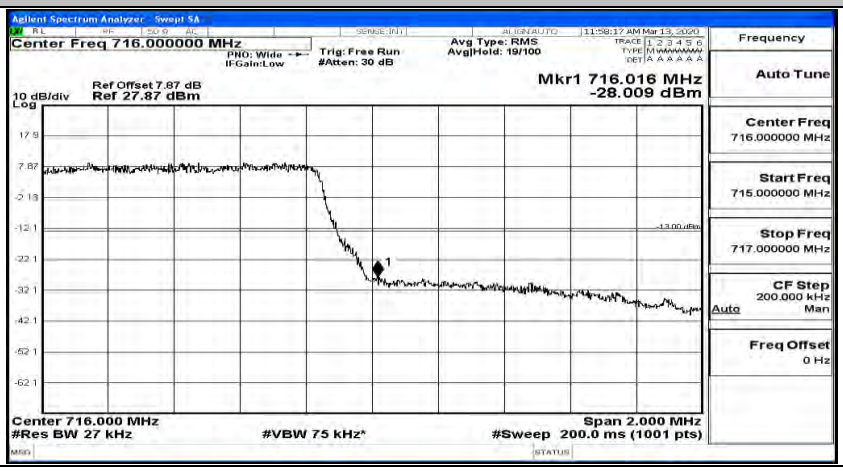
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK



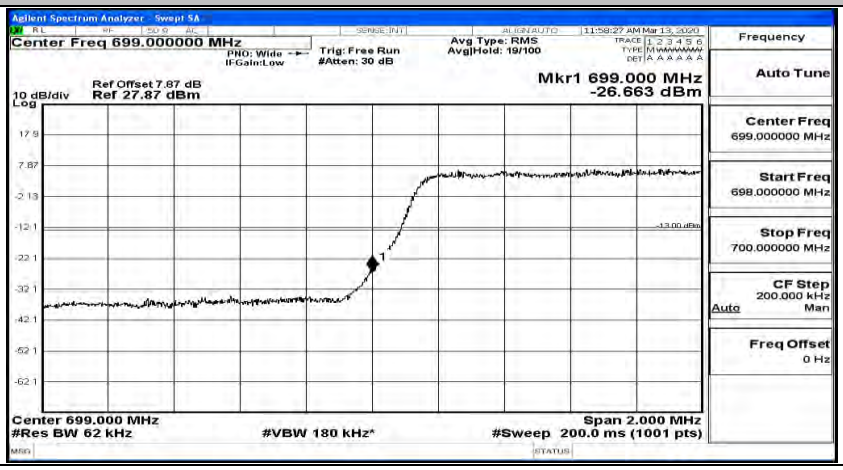
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM



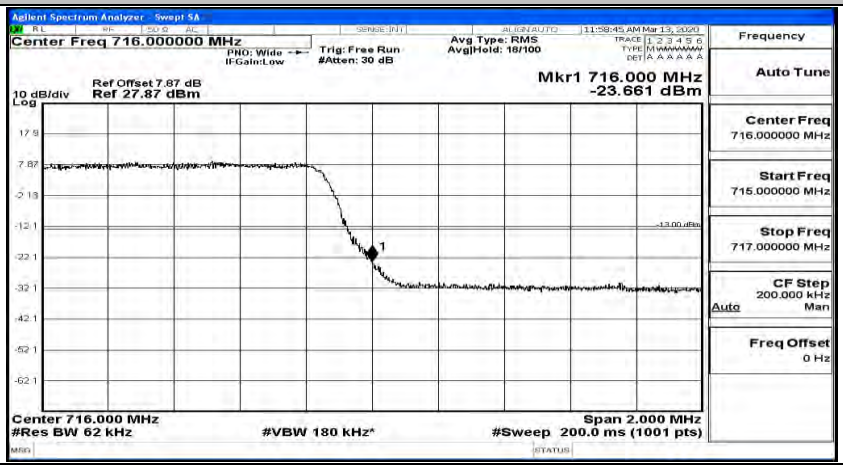
Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM



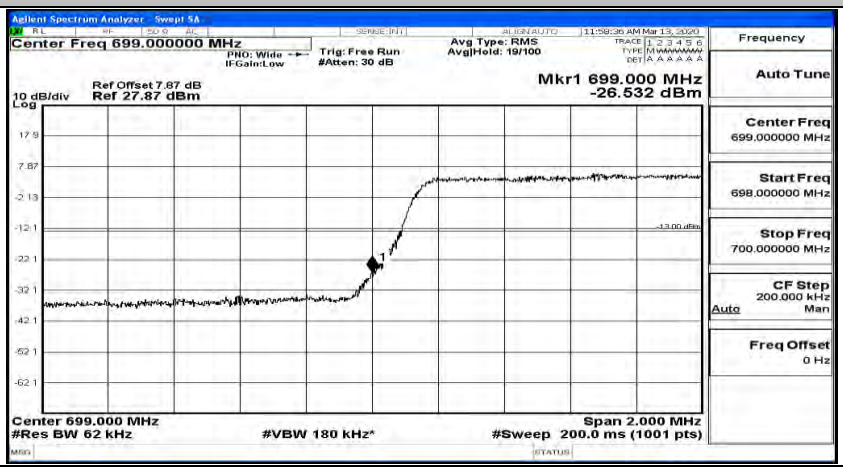
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK



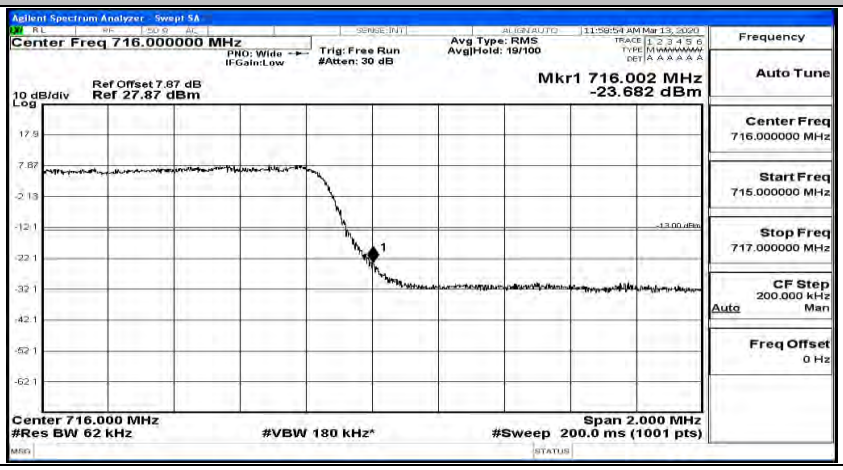
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK



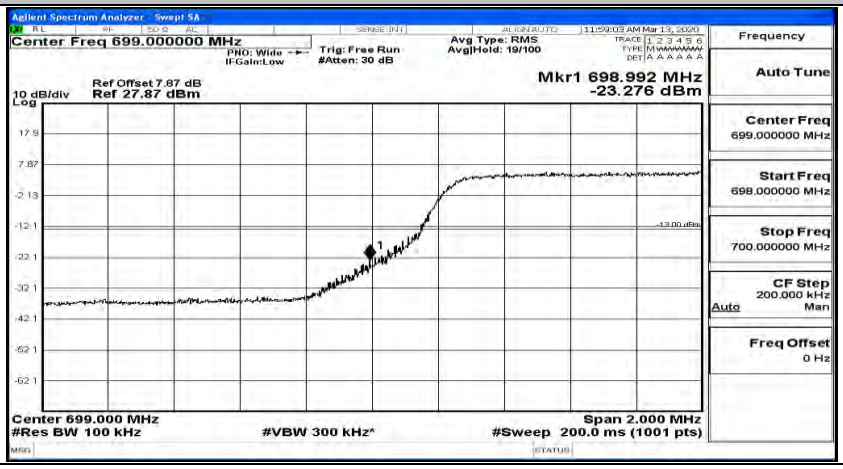
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM



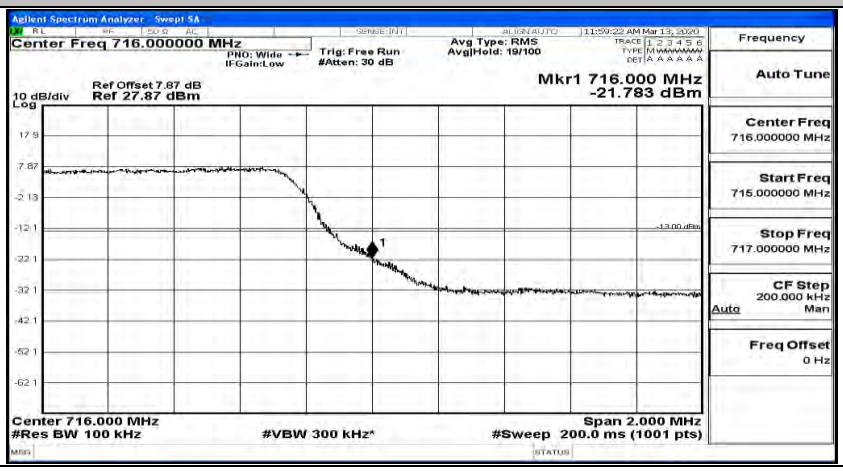
Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM



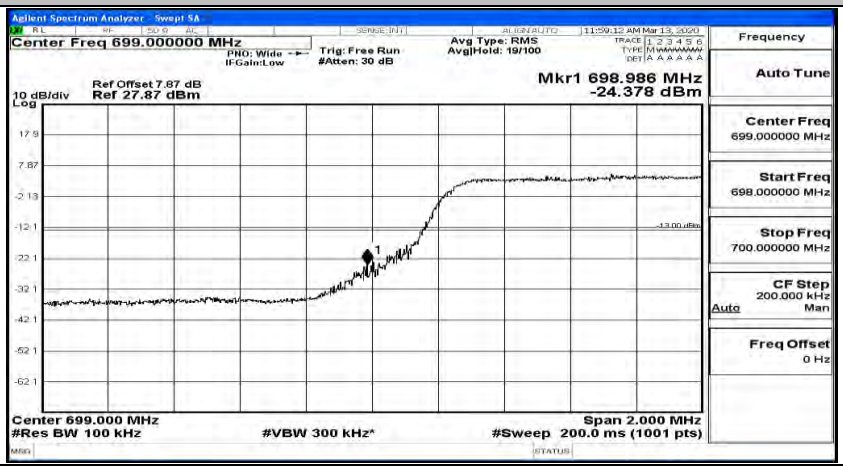
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



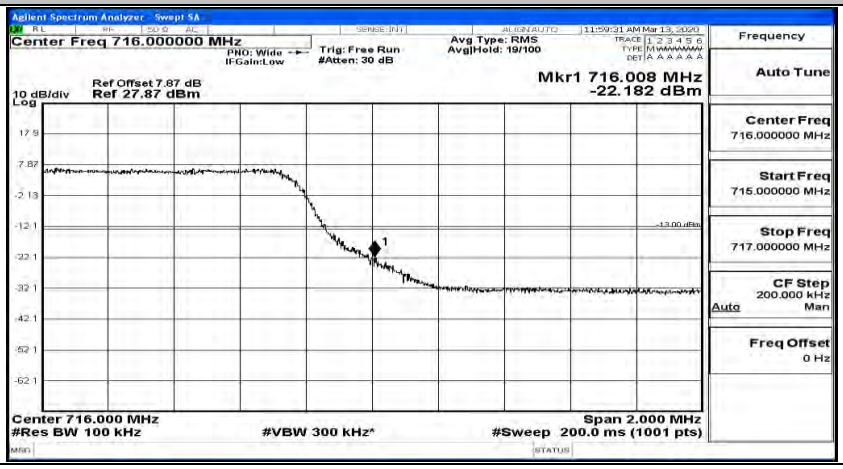
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



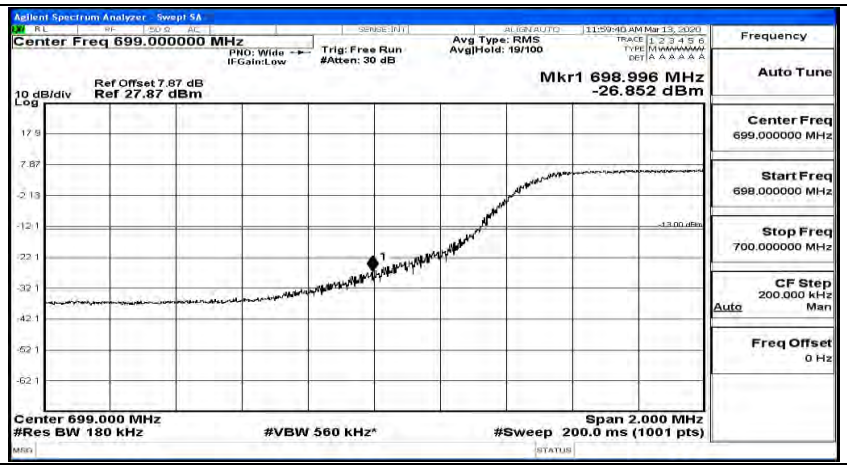
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



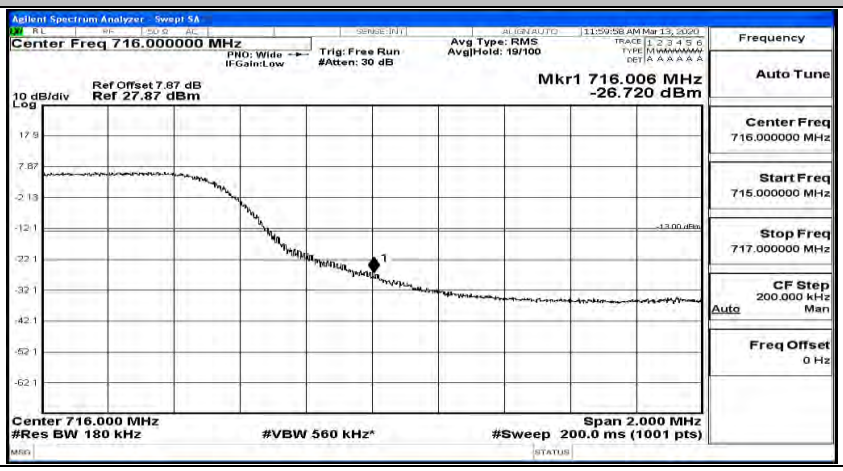
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



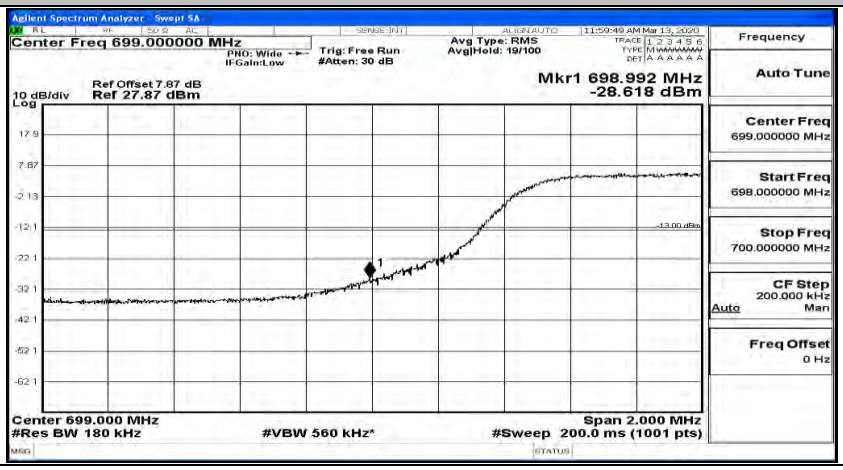
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK


Agilent Spectrum Analyzer - Swept SA
Center Freq 699.000000 MHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: RMS
Avg|Hold: 19/100
11:59:40 AM Mar 13, 2020
Mkr1 698.996 MHz
-26.852 dBm
Ref Offset 7.87 dB
10 dB/div
Log
Ref 27.87 dBm
17.9
7.87
-2.13
-12.1
-22.1
-32.1
-42.1
-52.1
-62.1
-13.00 dBm
Center 699.000 MHz
#Res BW 180 kHz
#VBW 560 kHz*
Span 2.000 MHz
#Sweep 200.0 ms (1001 pts)
Frequency
Auto Tune
Center Freq
699.000000 MHz
Start Freq
698.000000 MHz
Stop Freq
700.000000 MHz
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz

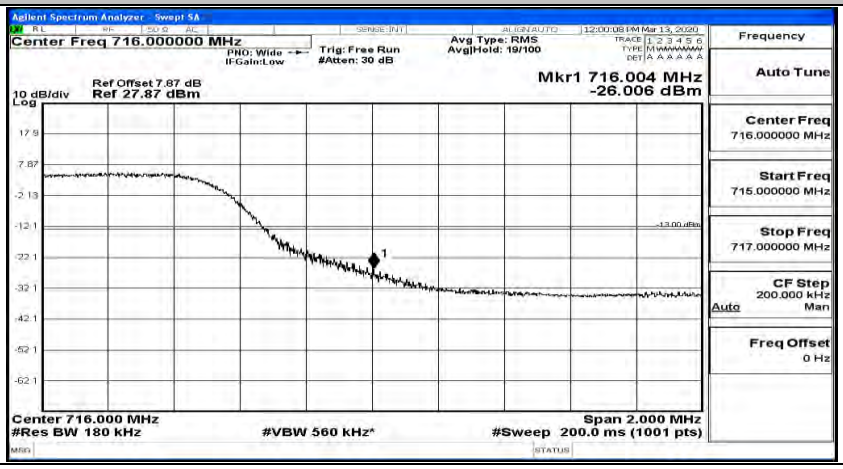
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



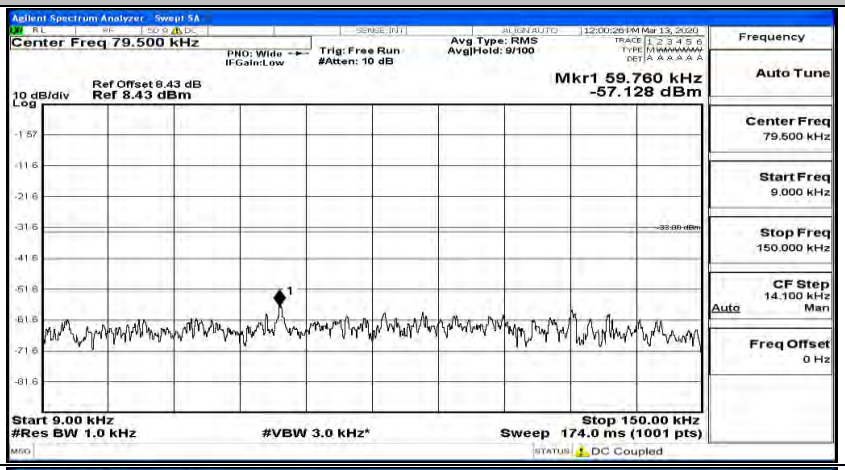
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

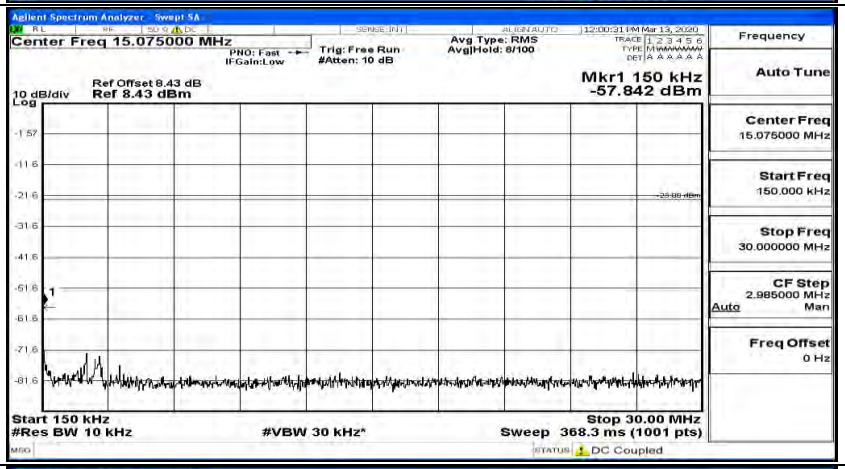


K.5 Conducted Spurious Emission

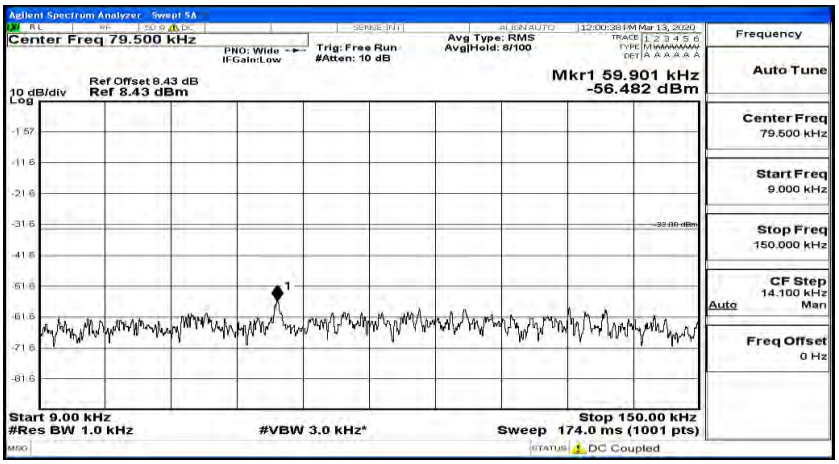
Channel Bandwidth: 1.4 MHz

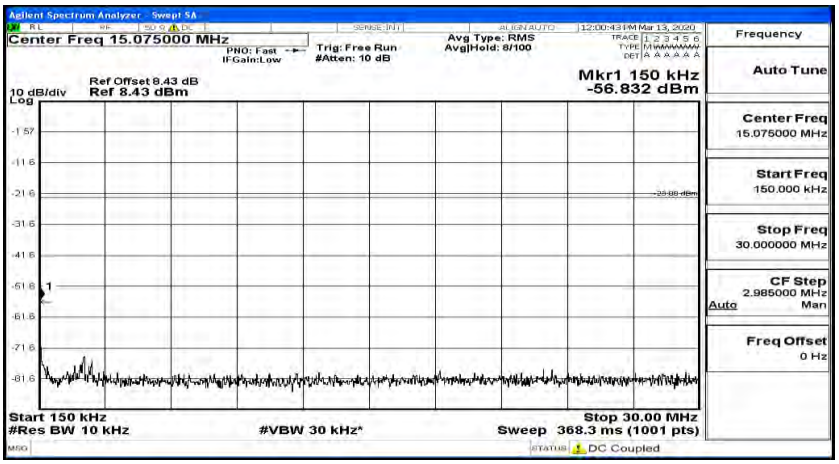
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



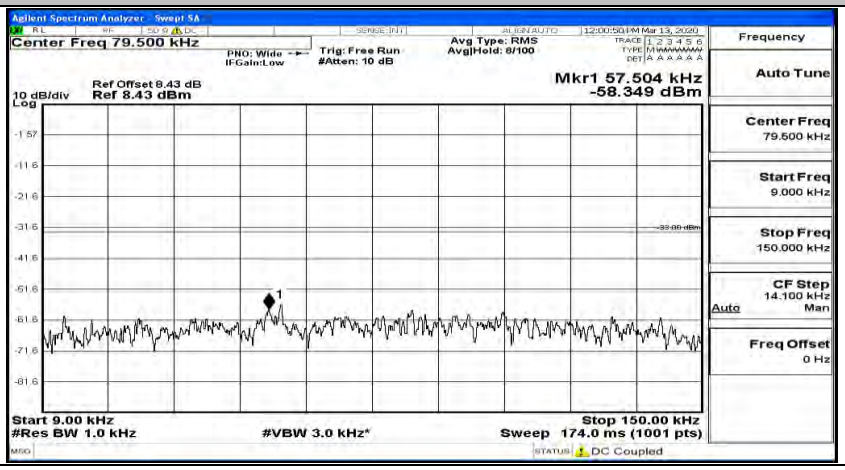


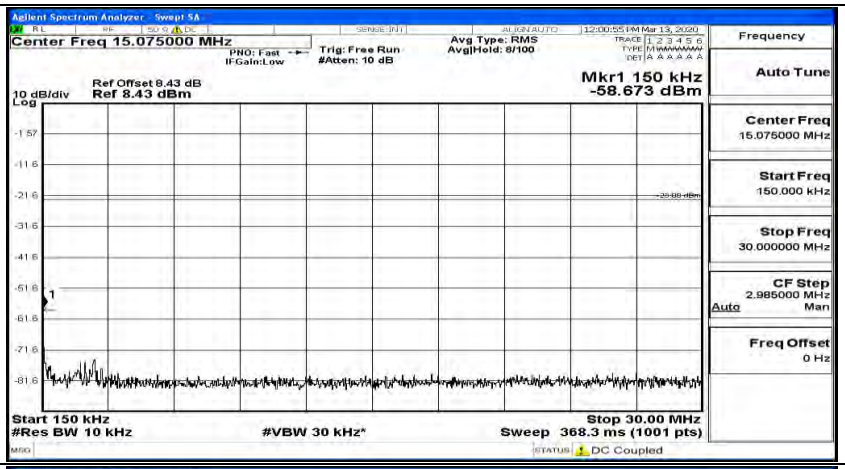
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



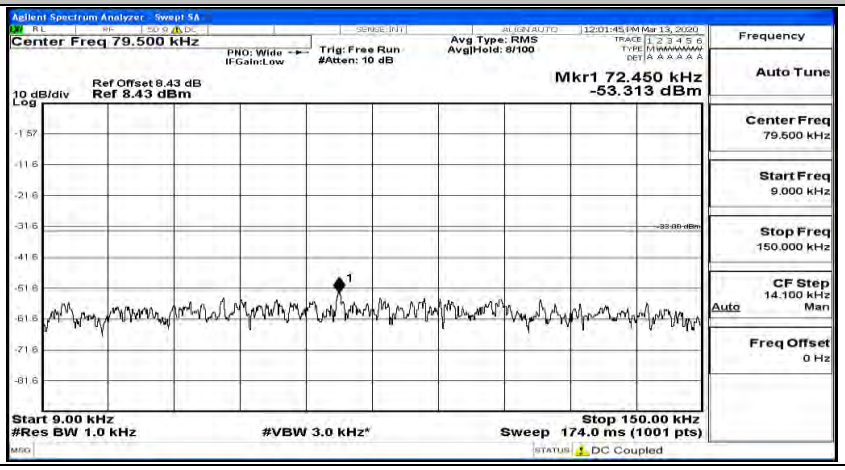


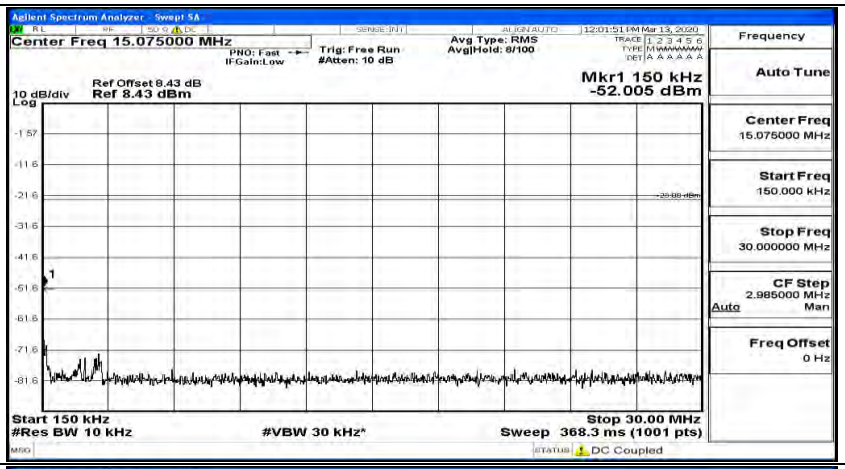
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



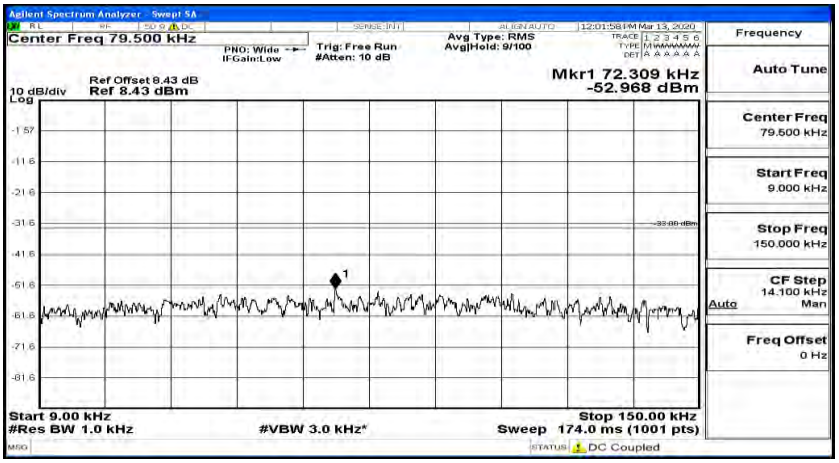


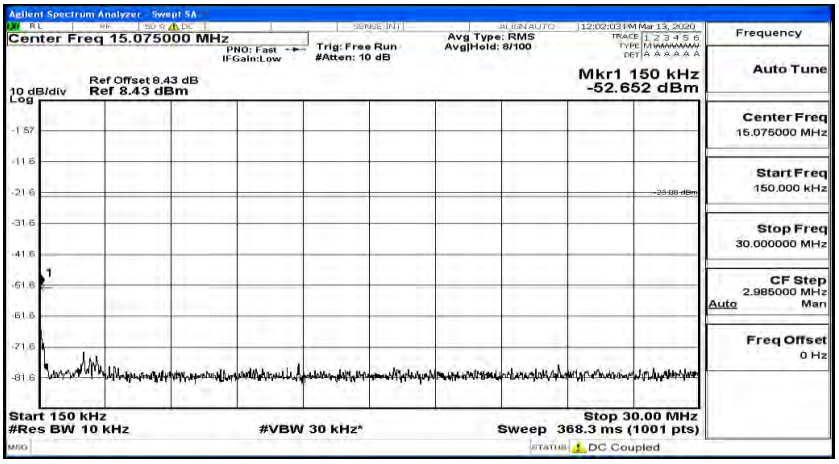
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

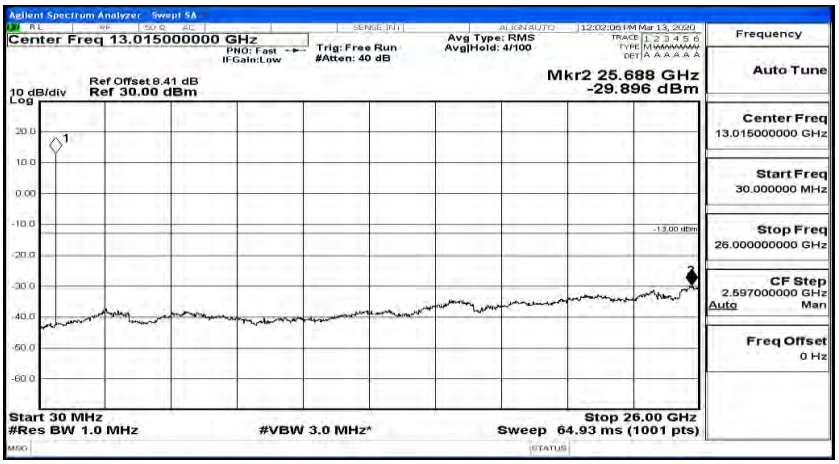




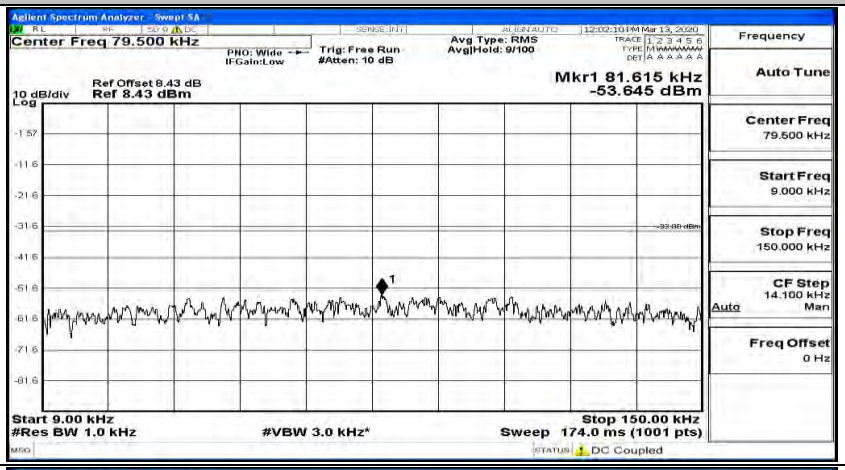
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

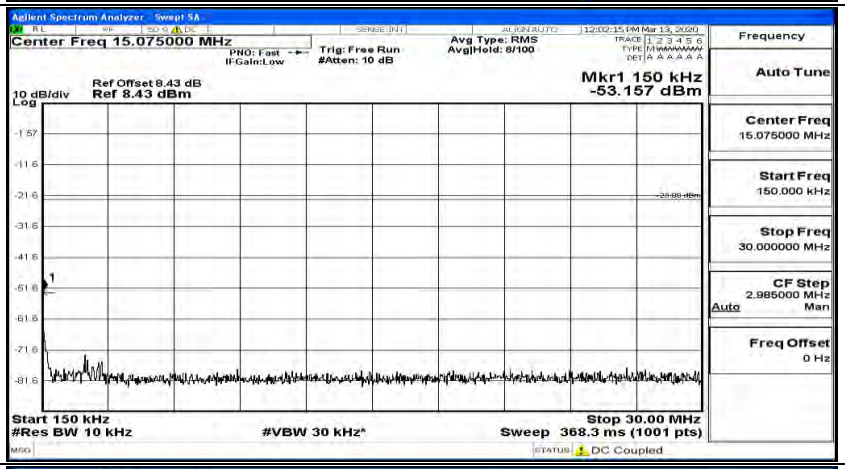




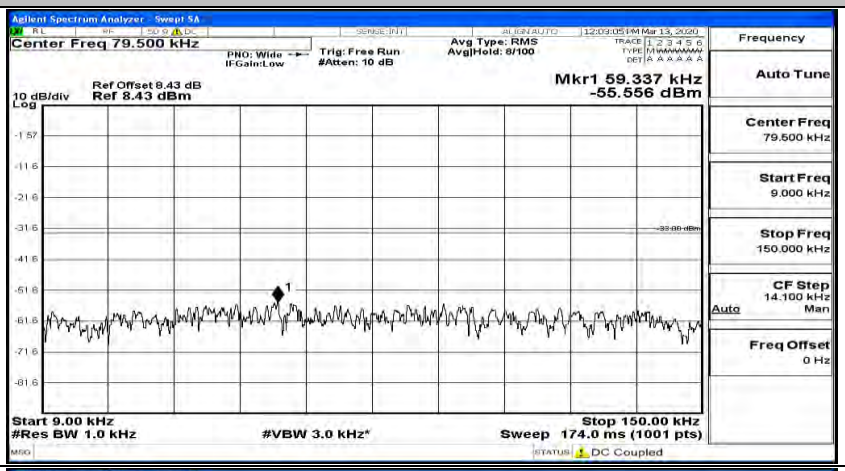


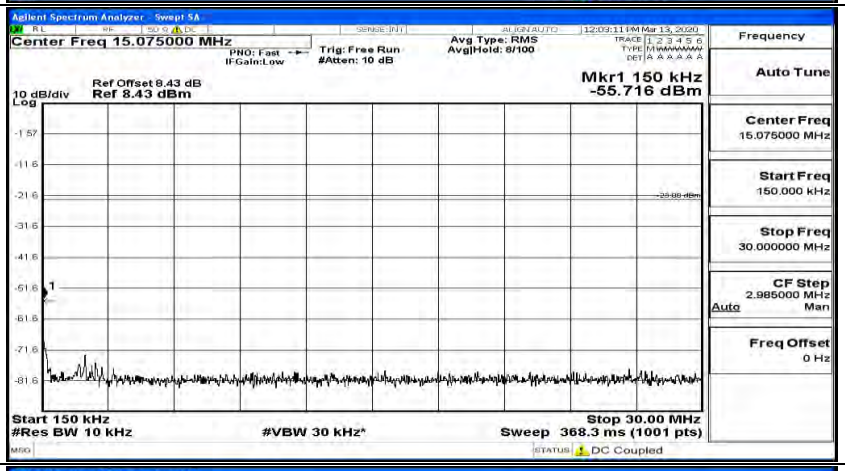
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



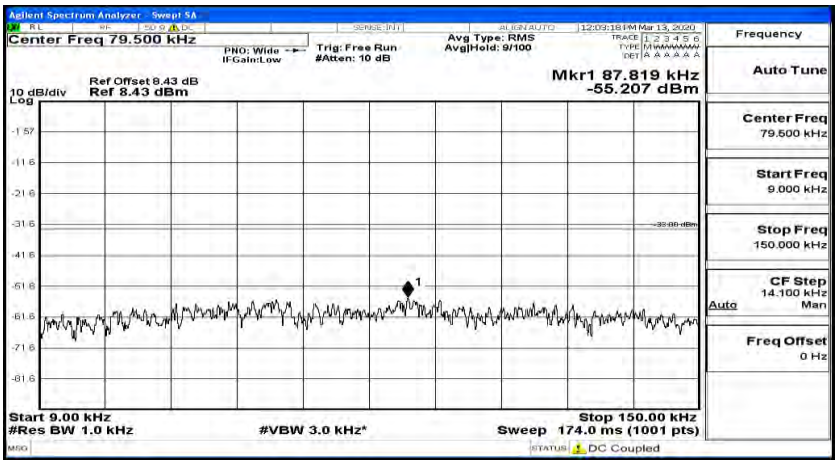


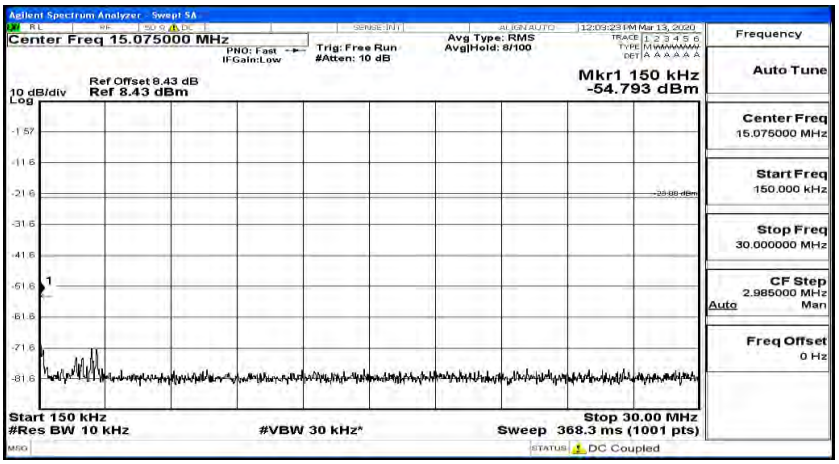
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



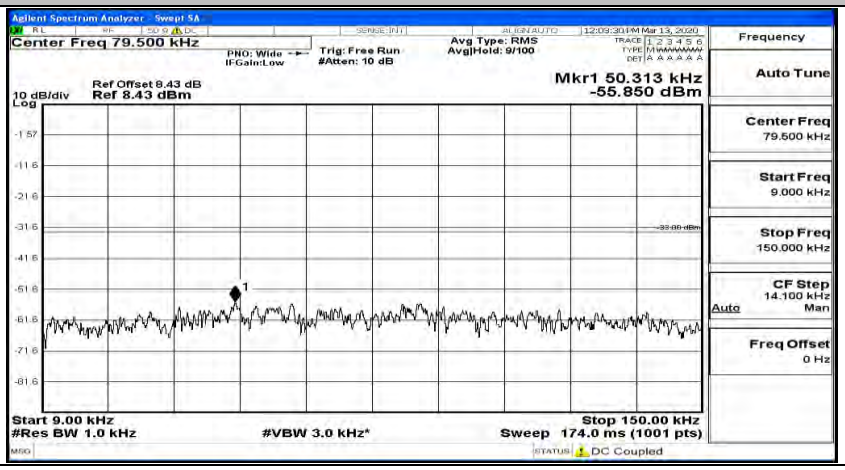


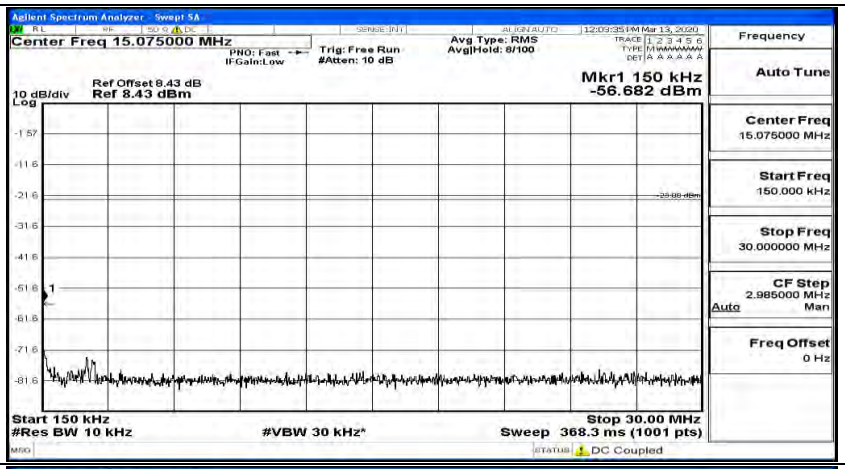
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



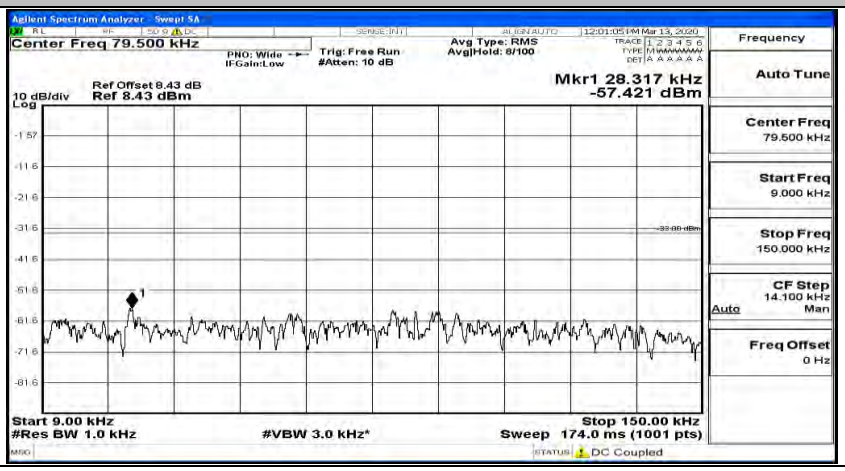


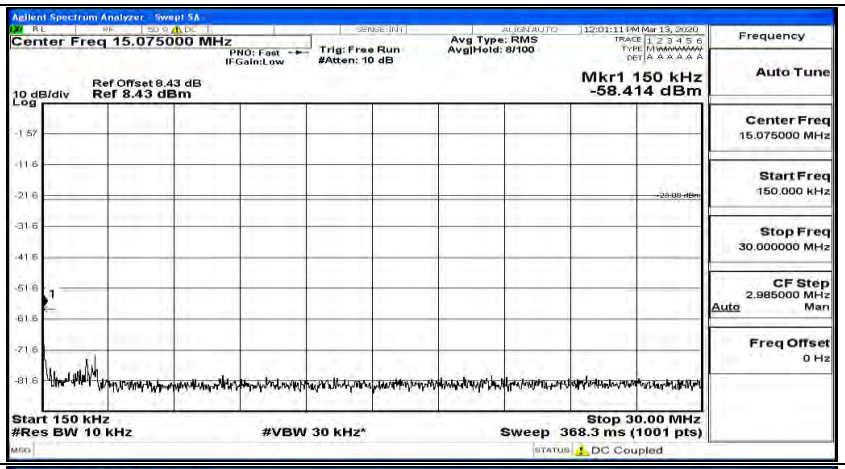
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



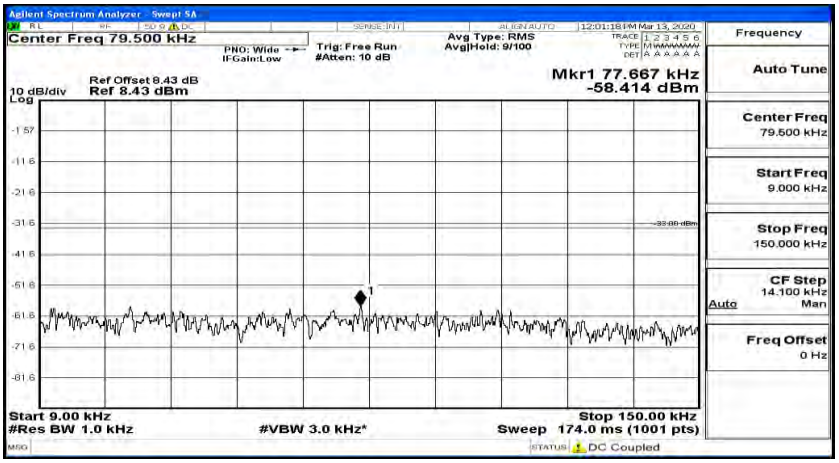


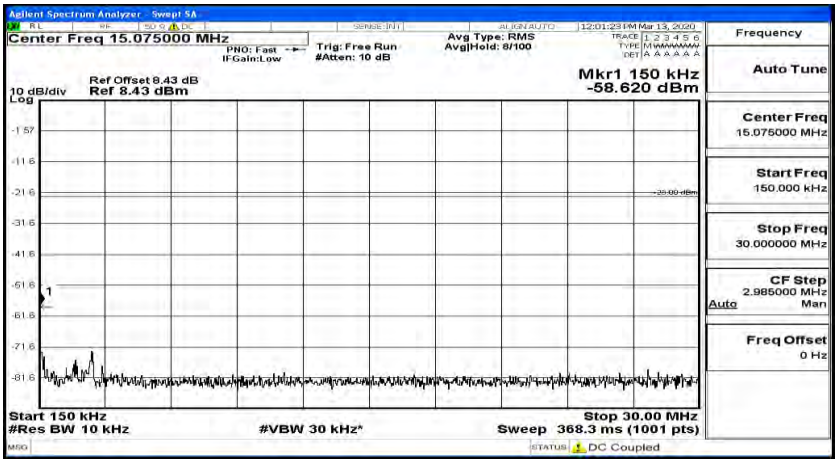
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

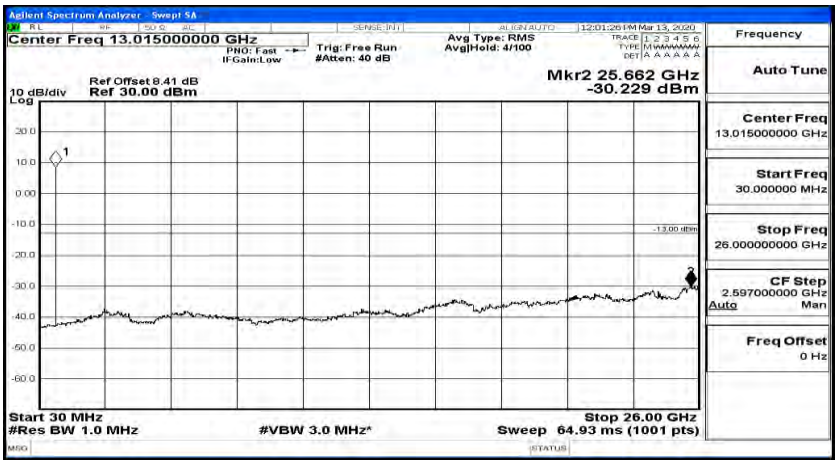




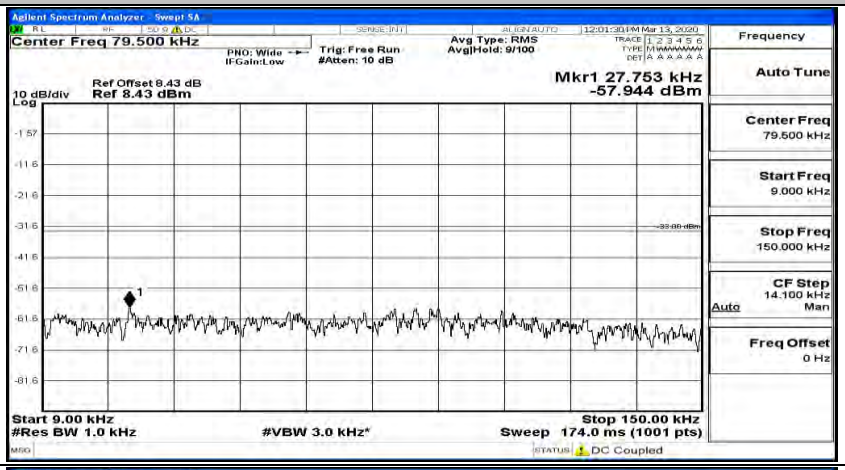
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

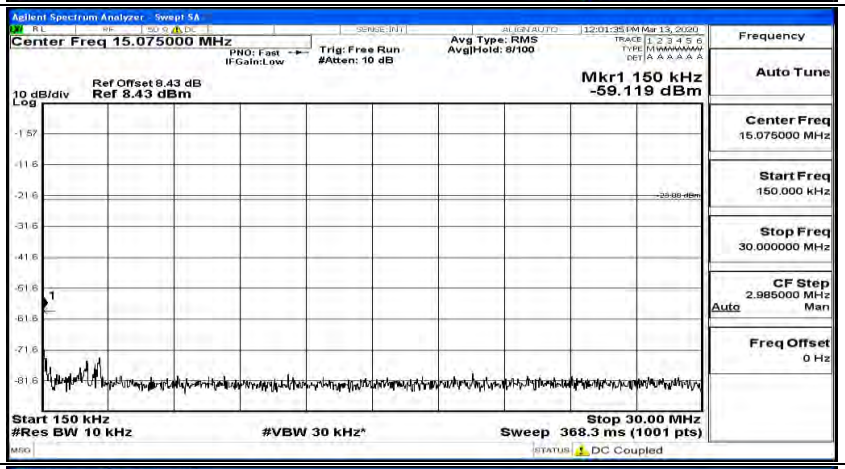




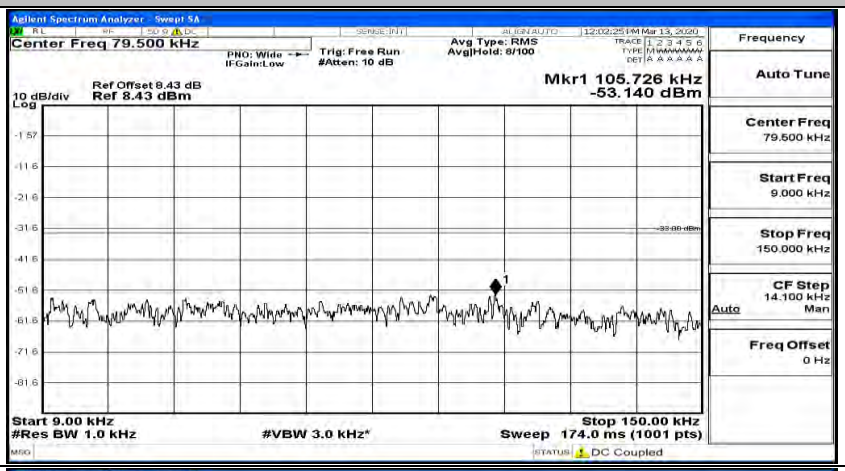


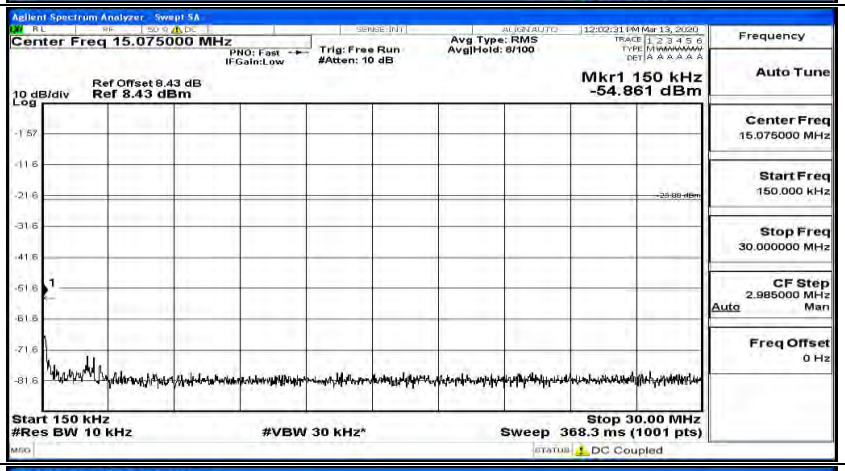
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



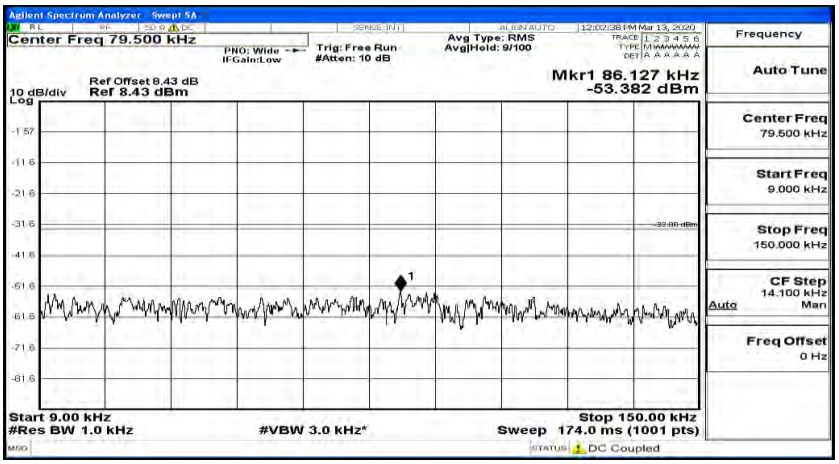


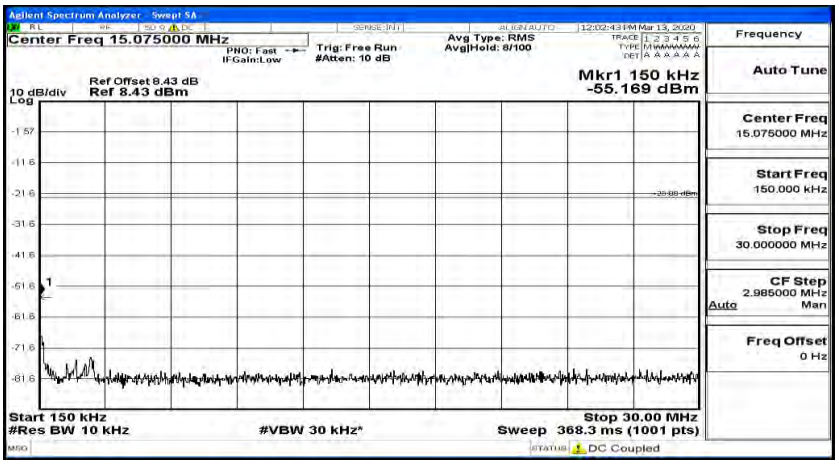
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



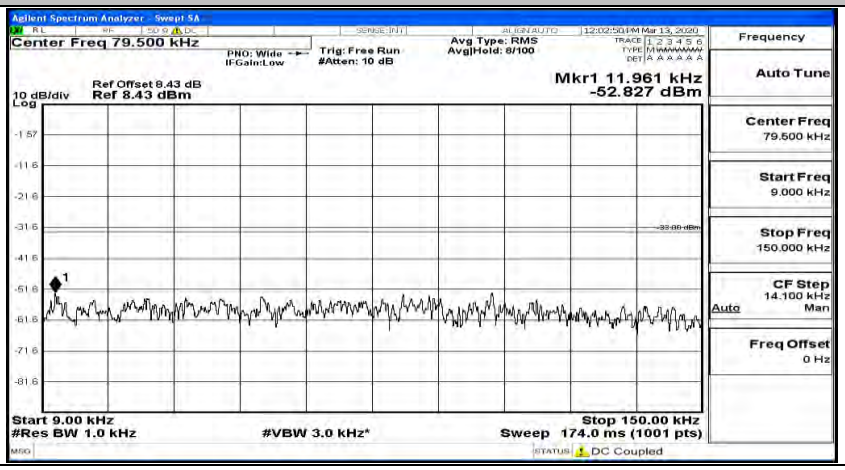


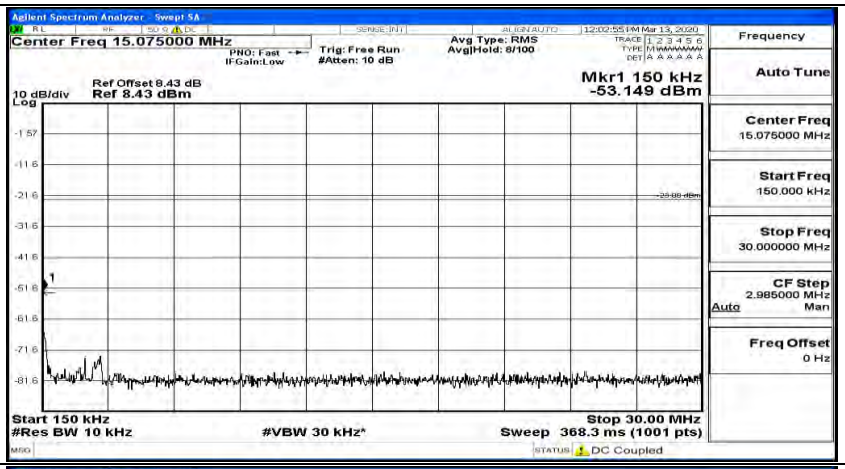
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



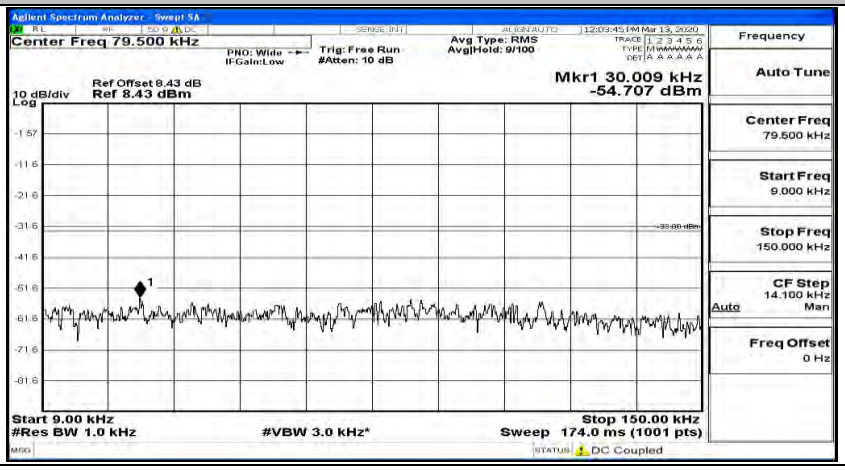


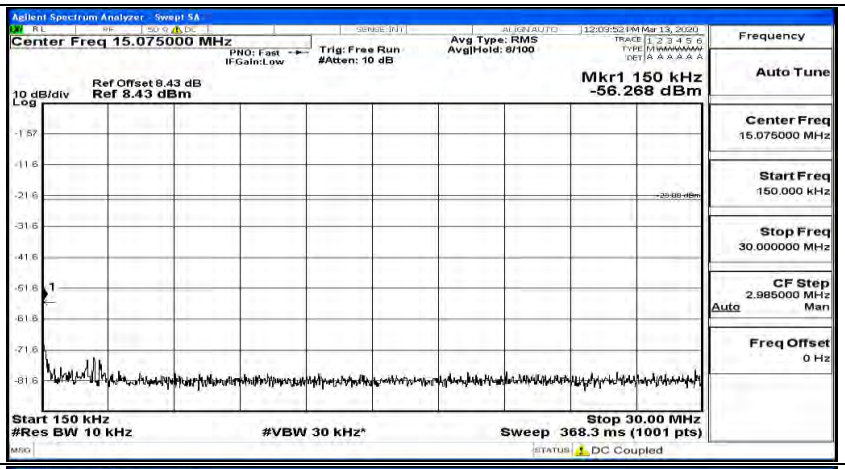
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



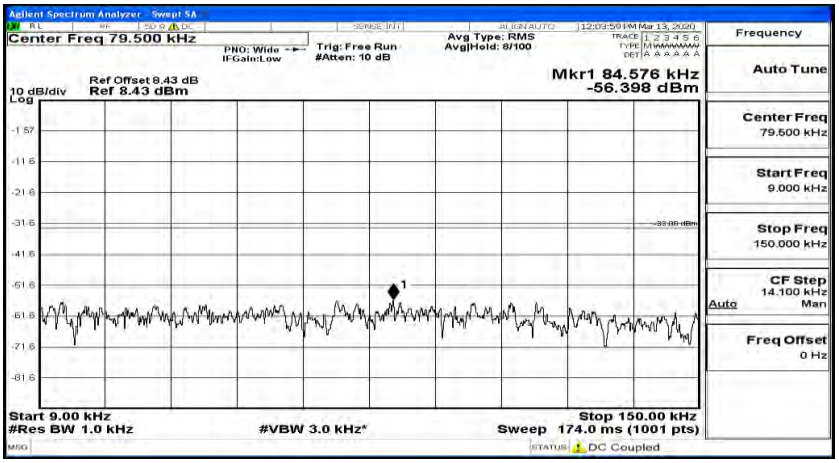


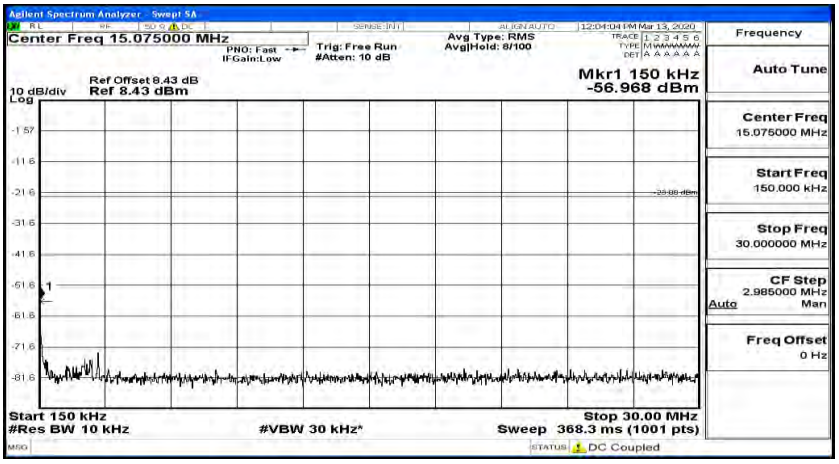
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



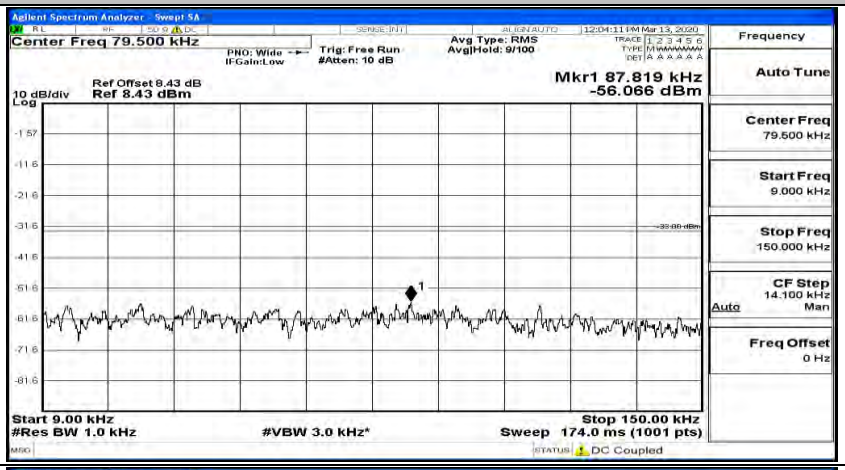


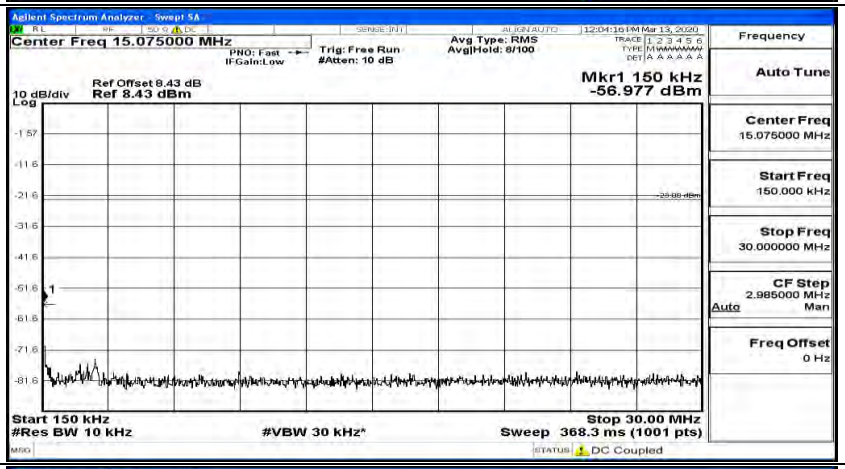
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3





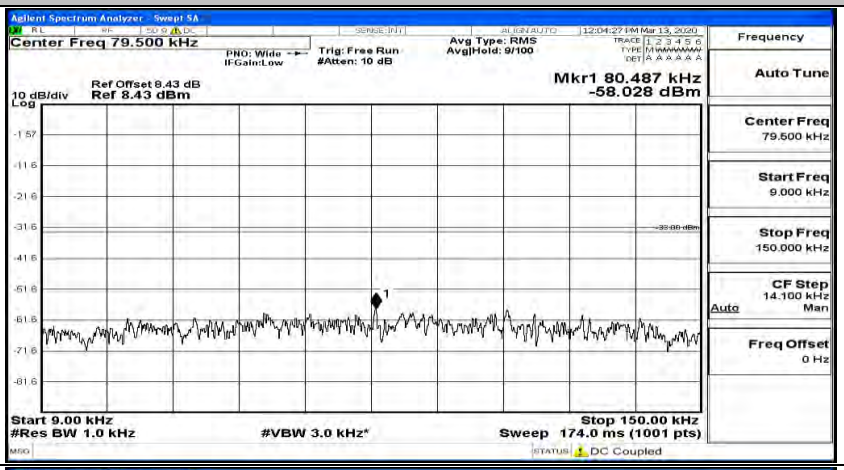
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5

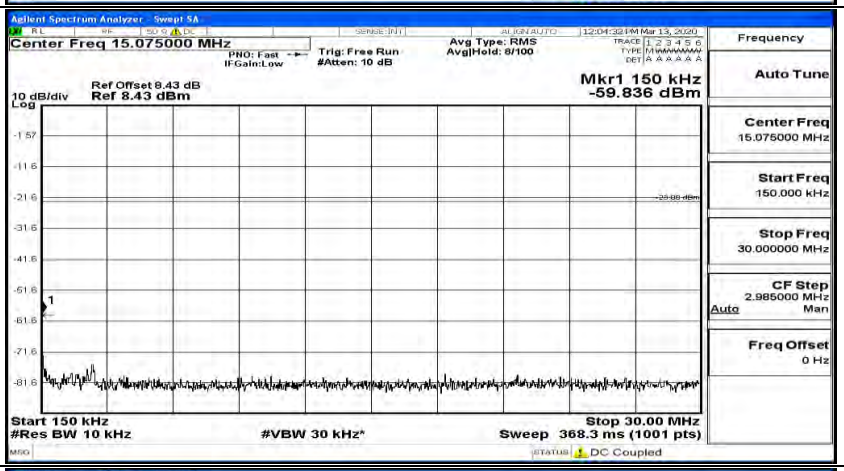




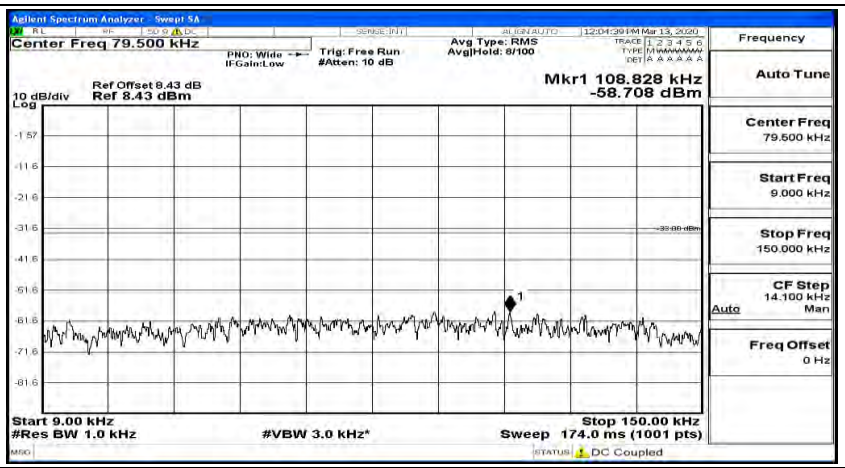
Channel Bandwidth: 3 MHz

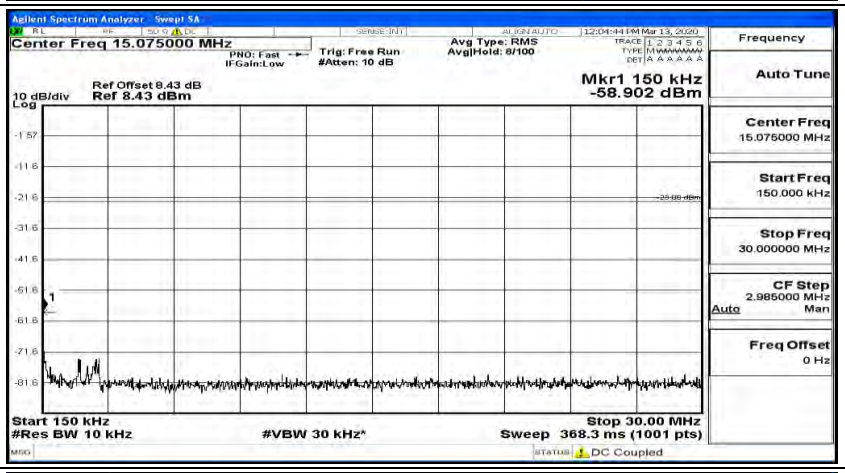
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



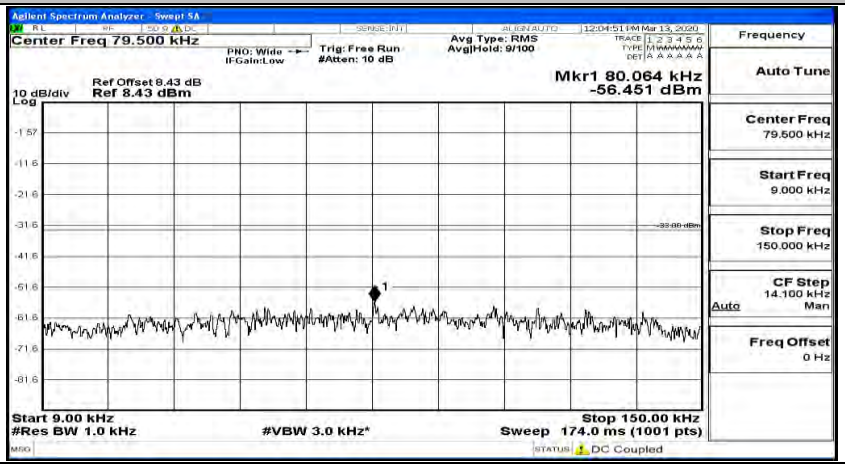


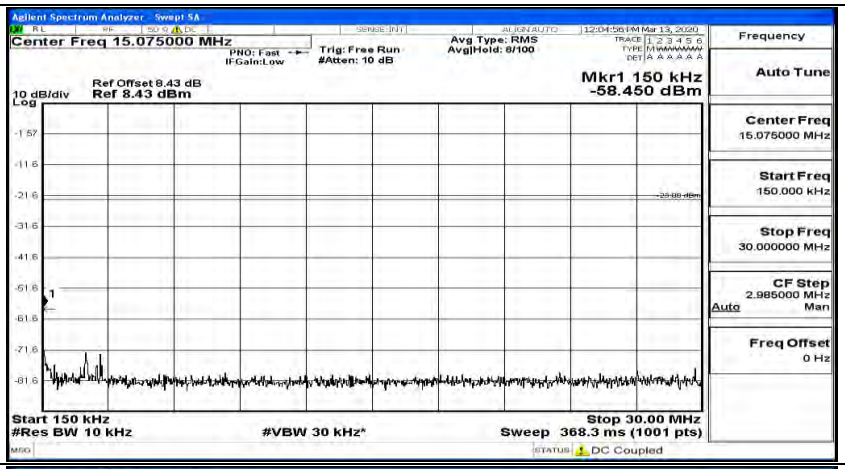
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



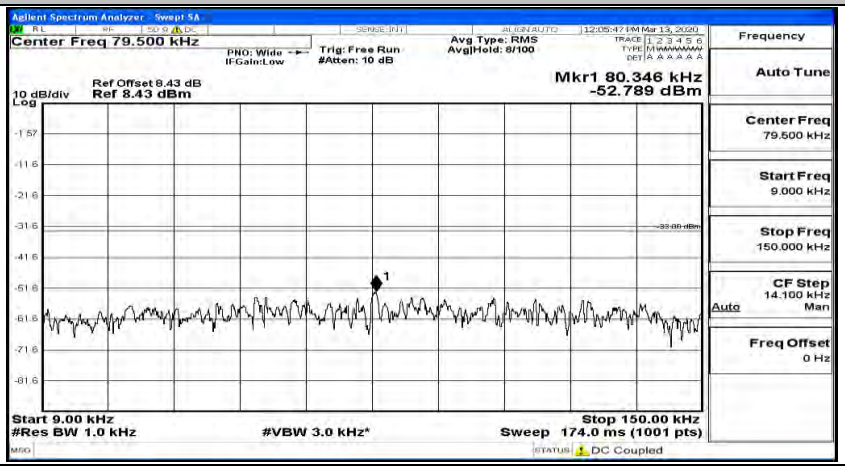


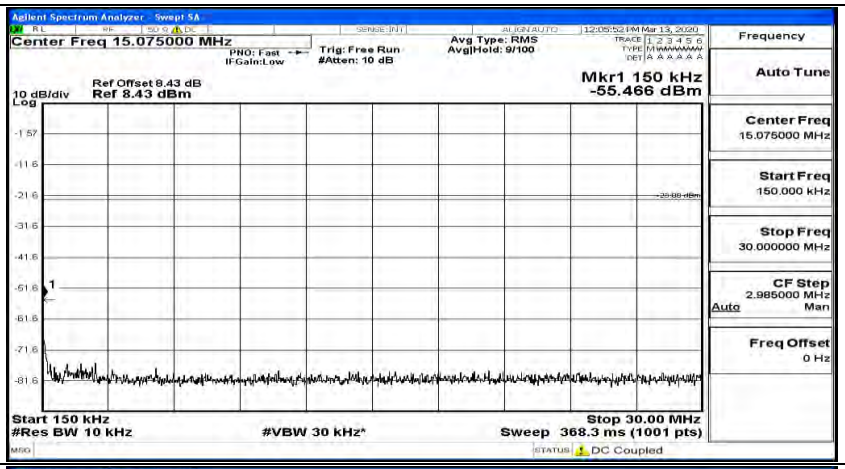
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



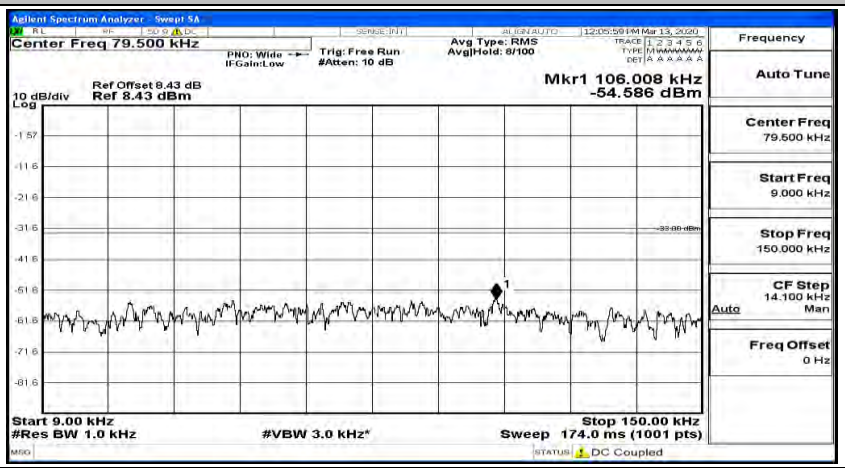


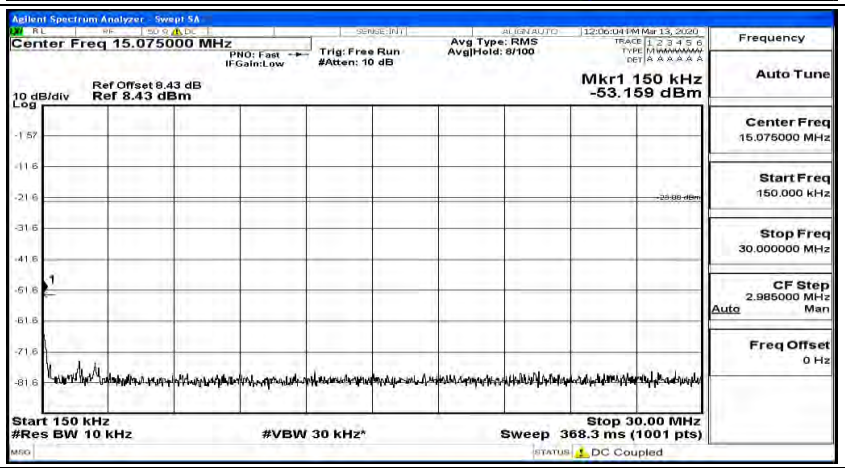
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

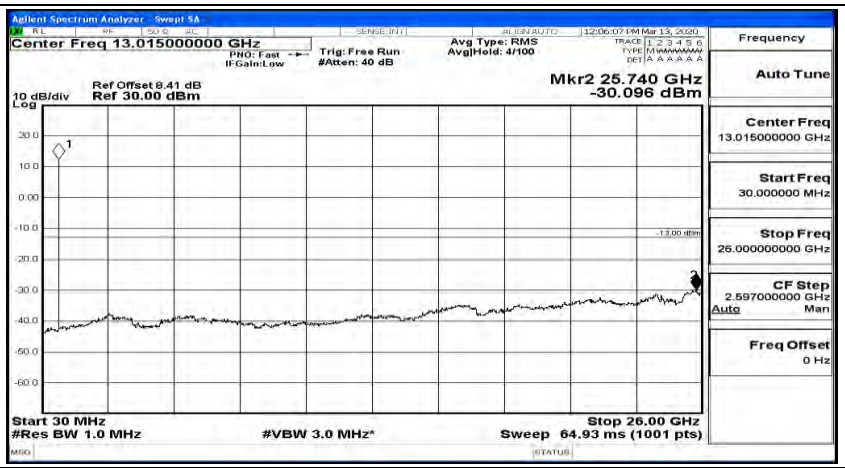




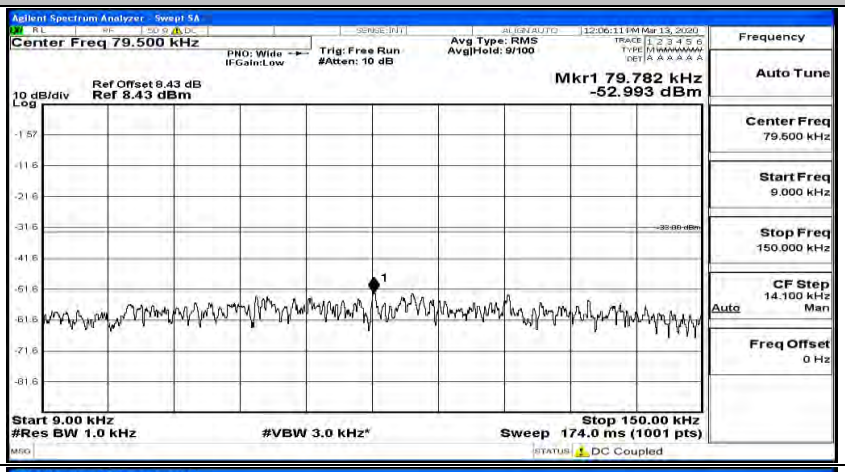
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7

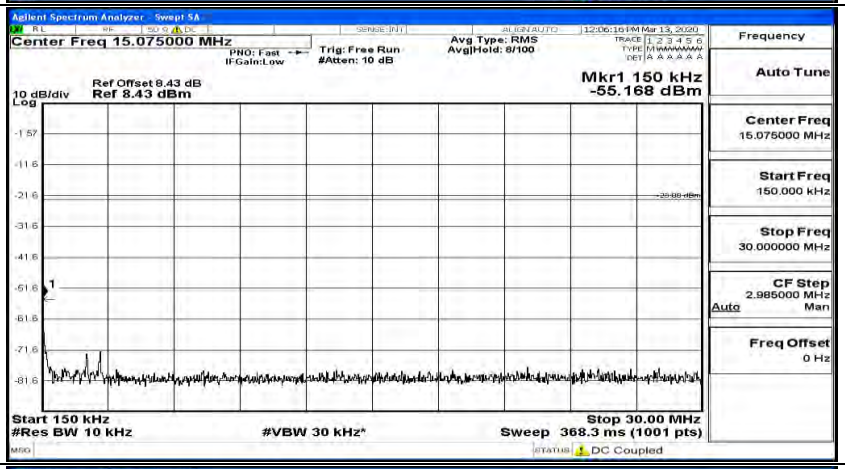




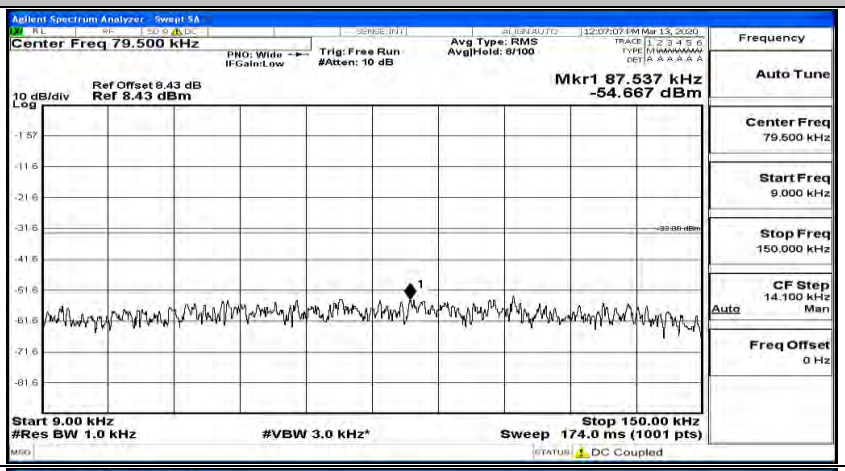


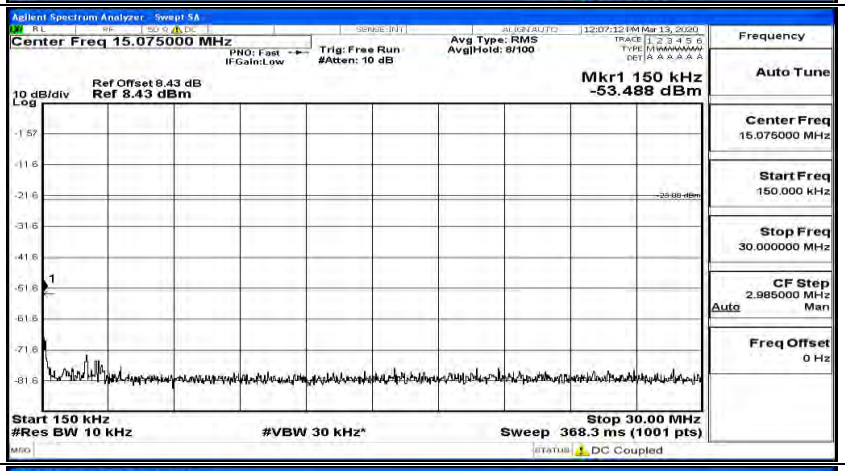
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



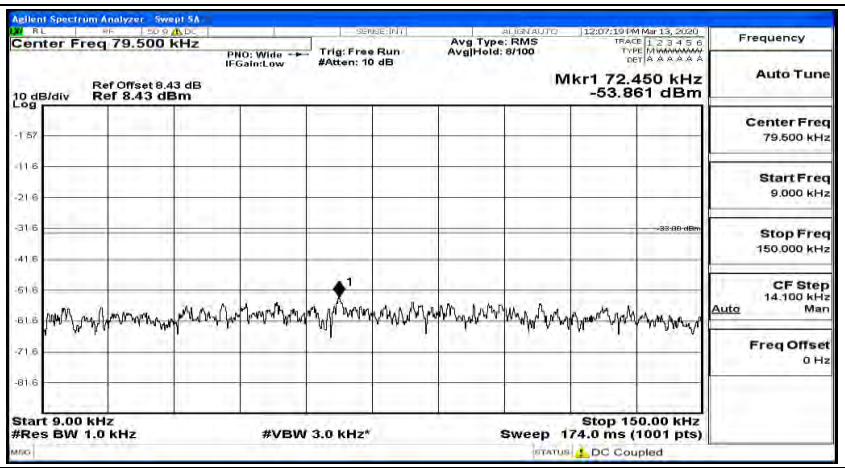


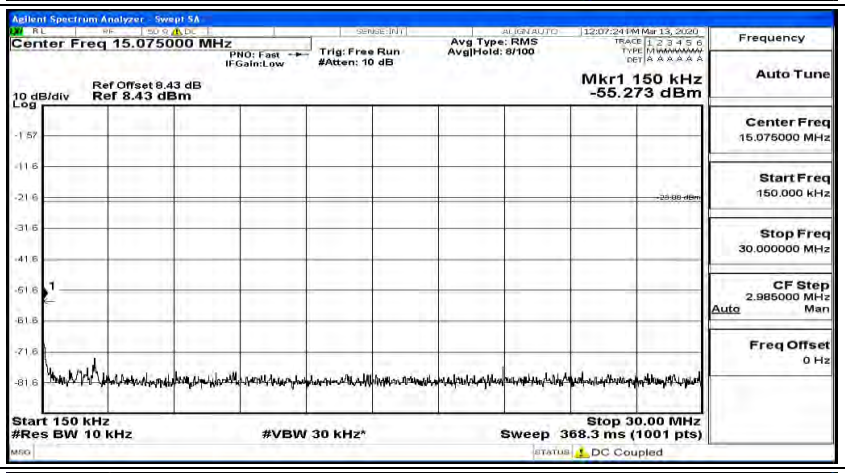
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

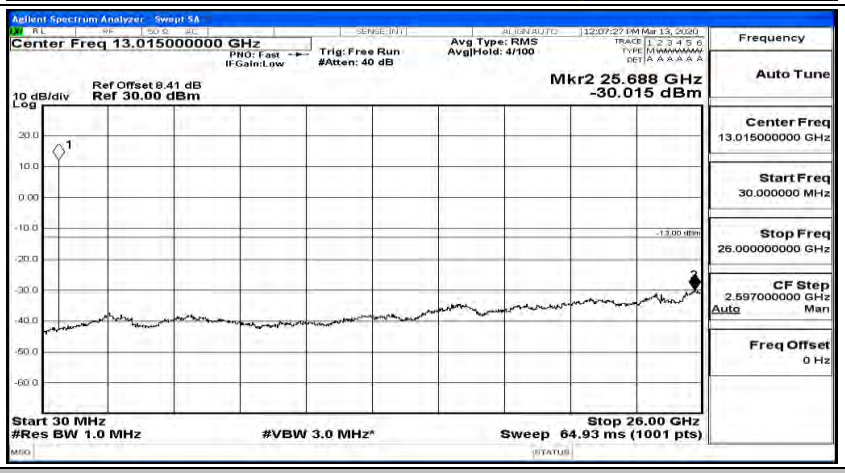




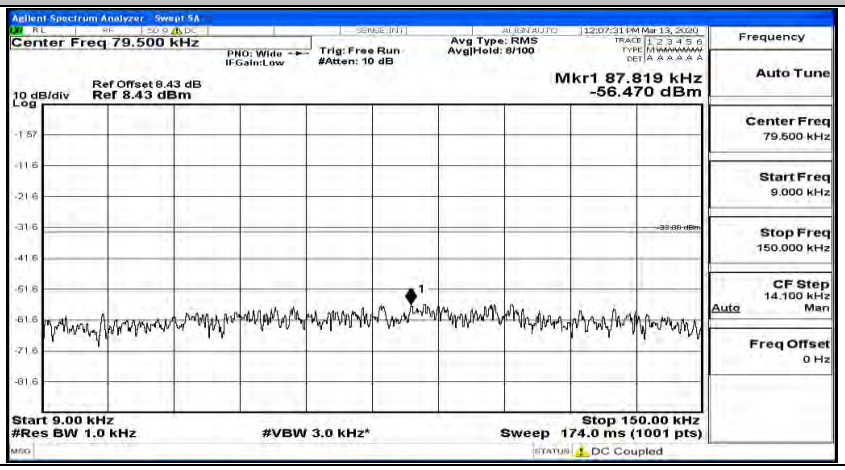
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

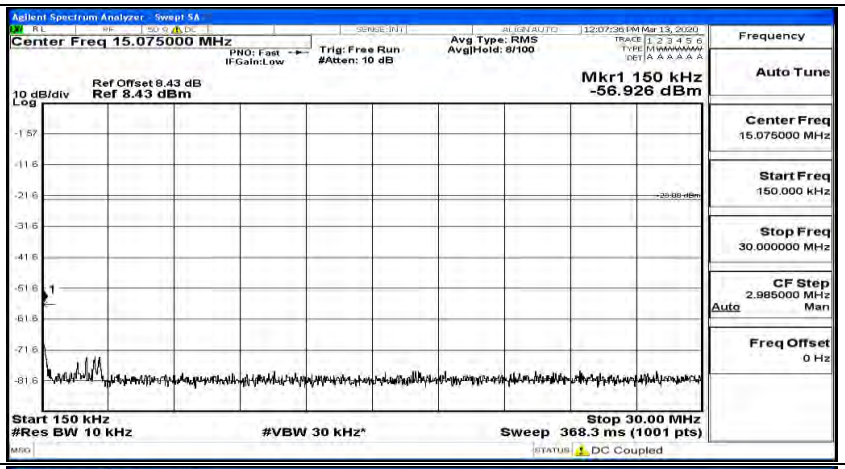






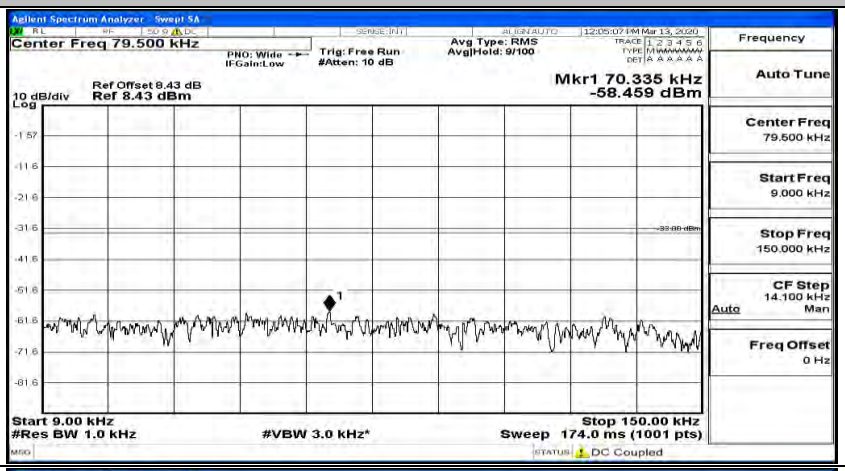
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

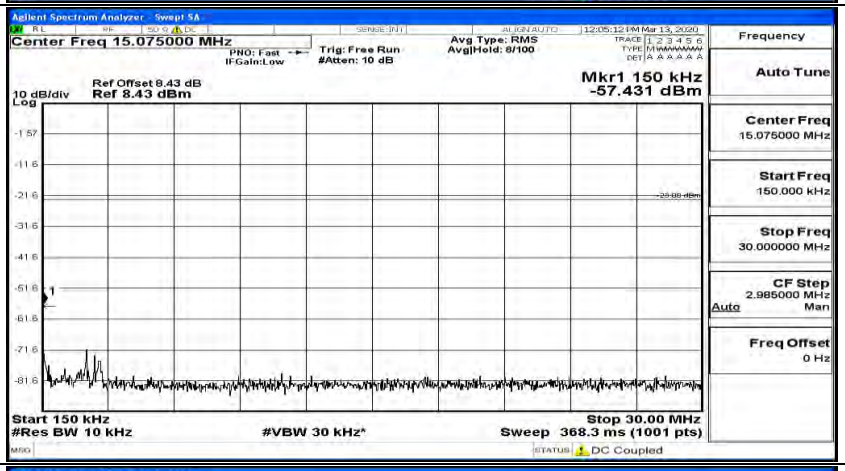



Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
12:07:36 PM Mar 13, 2020
Frequency
Auto Tune
Mkr1 150 kHz
-56.926 dBm
Ref Offset 8.43 dB
10 dB/div
Ref 8.43 dBm
Log
-1.57
-11.6
-21.6
-31.6
-41.6
-51.6
-61.6
-71.6
-81.6
-28.88 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled

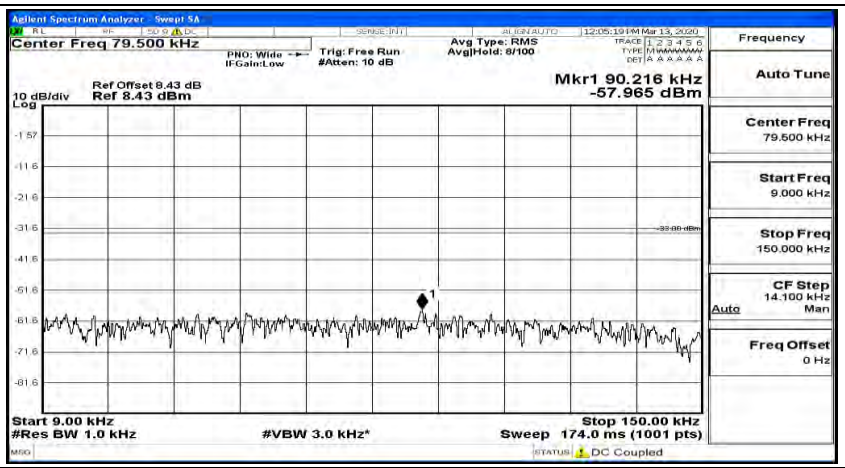
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 4/100
12:07:39 PM Mar 13, 2020
Frequency
Auto Tune
Mkr2 25.714 GHz
-30.136 dBm
Ref Offset 8.41 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)

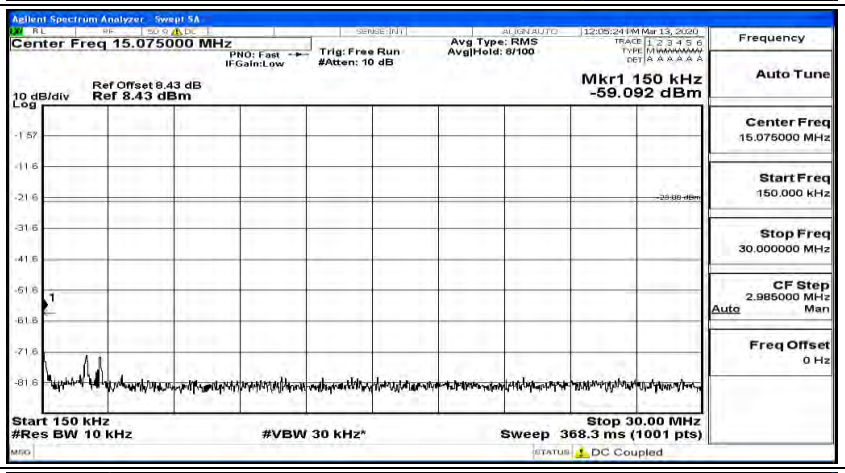
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0

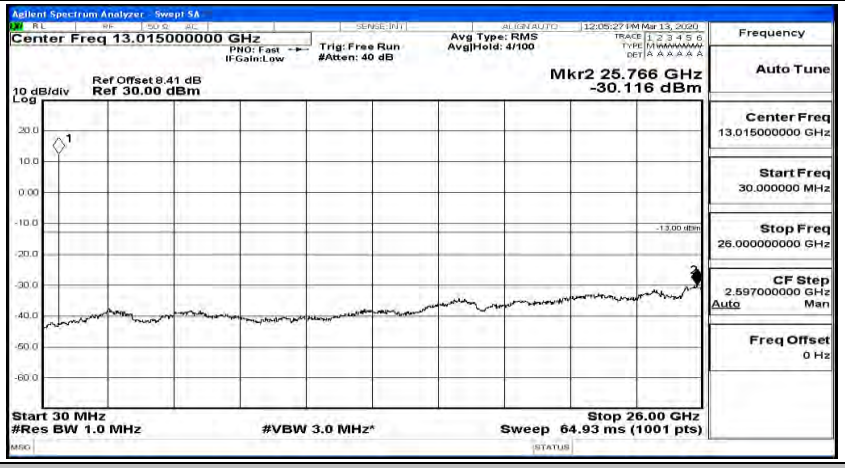




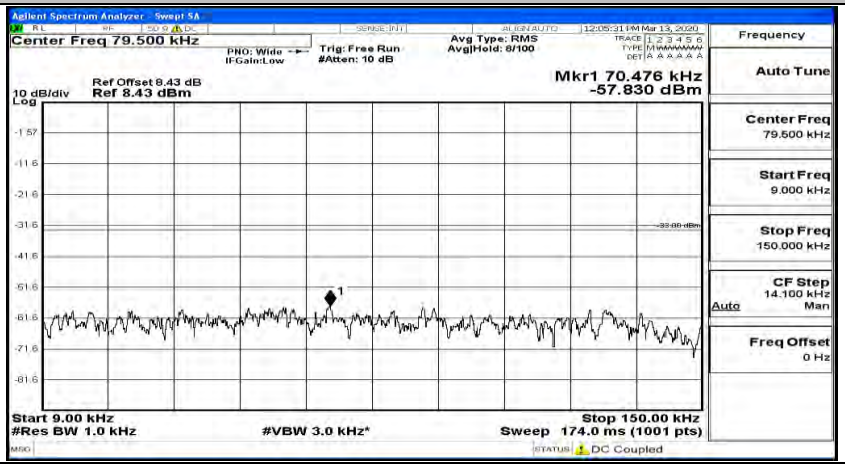
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

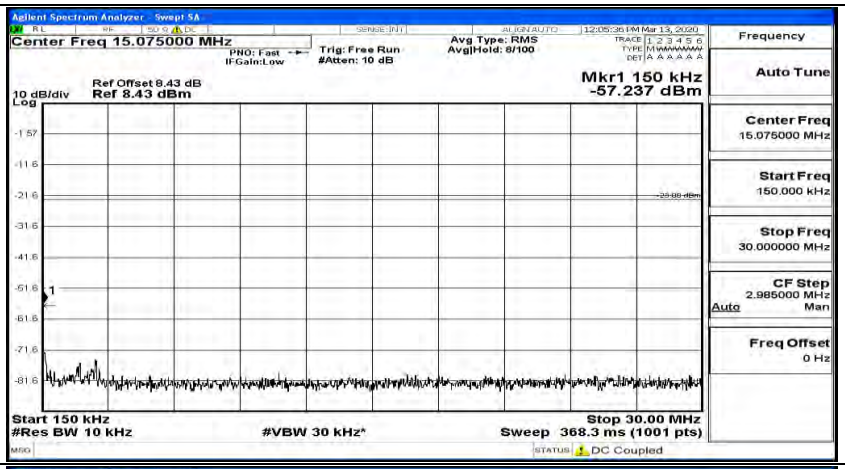






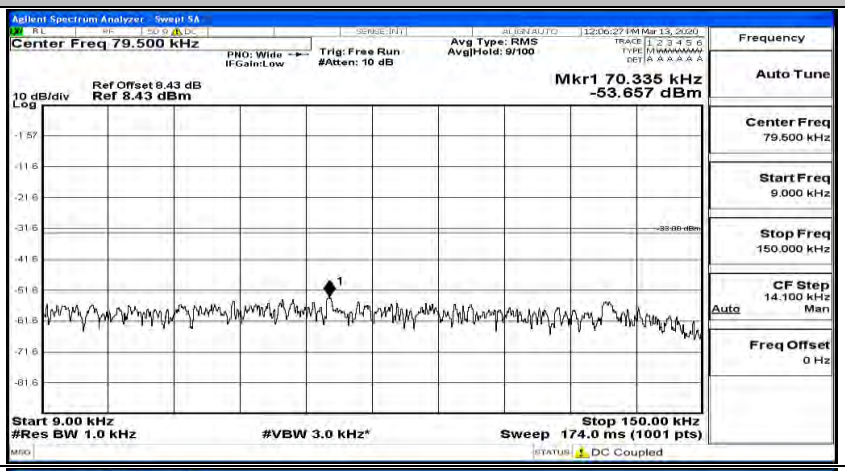
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

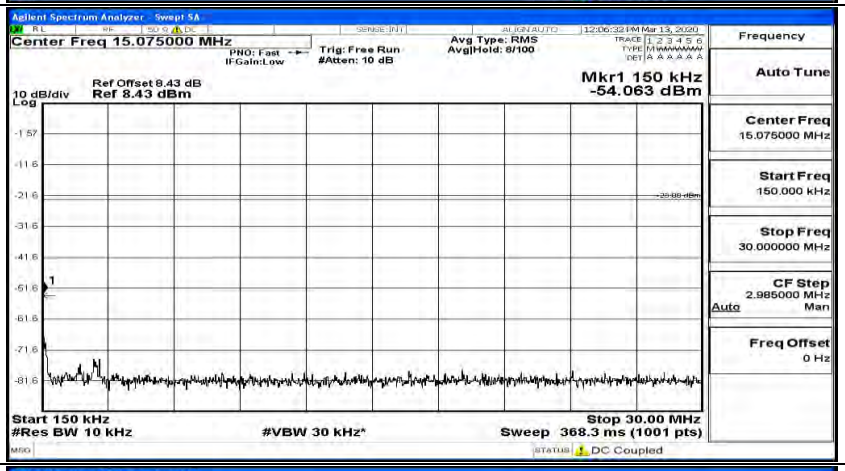



Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 8/100
12:05:36 PM Mar 13, 2020
Frequency
Auto Tune
Mkr1 150 kHz
-57.237 dBm
Ref Offset 8.43 dB
10 dB/div
Ref 8.43 dBm
Log
-1.57
-11.6
-21.6
-31.6
-41.6
-51.6
-61.6
-71.6
-81.6
-28.00 dBm
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.3 ms (1001 pts)
DC Coupled

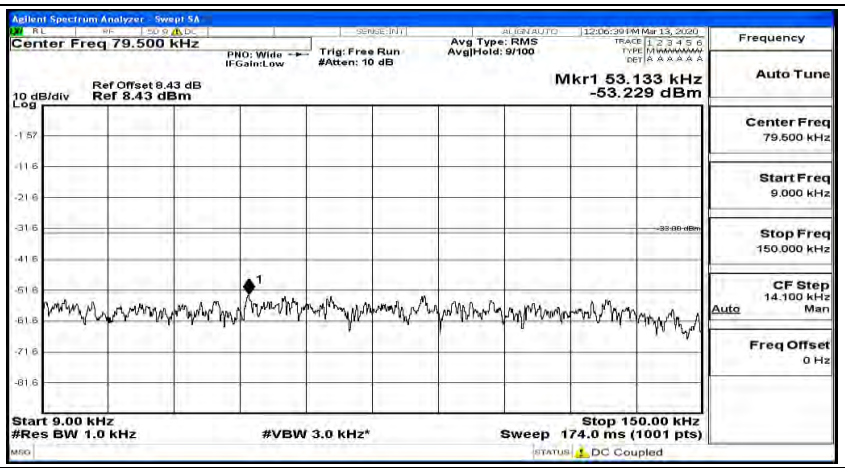
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 4/100
12:05:39 PM Mar 13, 2020
Frequency
Auto Tune
Mkr2 25.662 GHz
-30.037 dBm
Ref Offset 8.41 dB
10 dB/div
Ref 30.00 dBm
Log
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.93 ms (1001 pts)

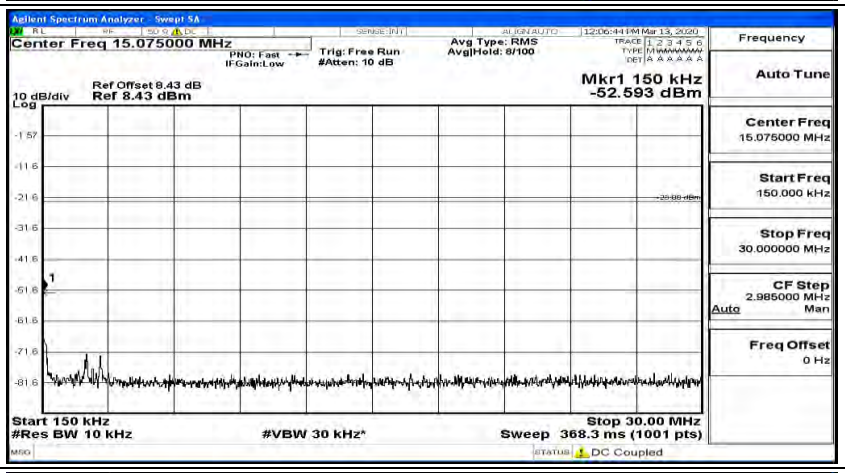
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

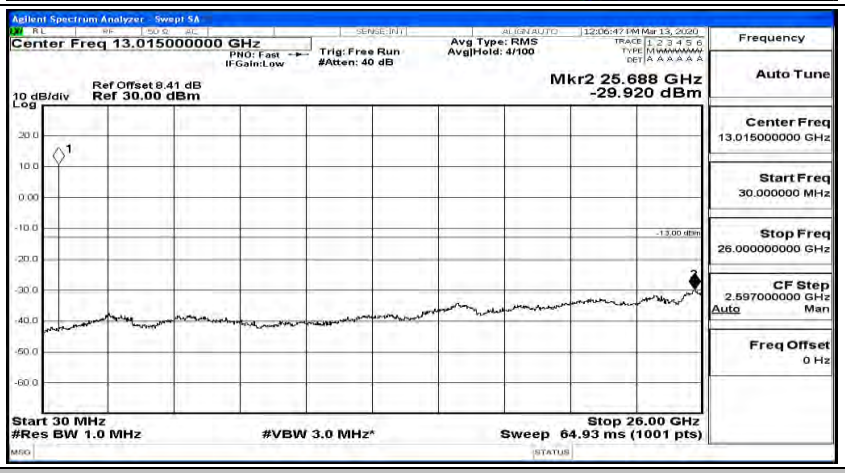




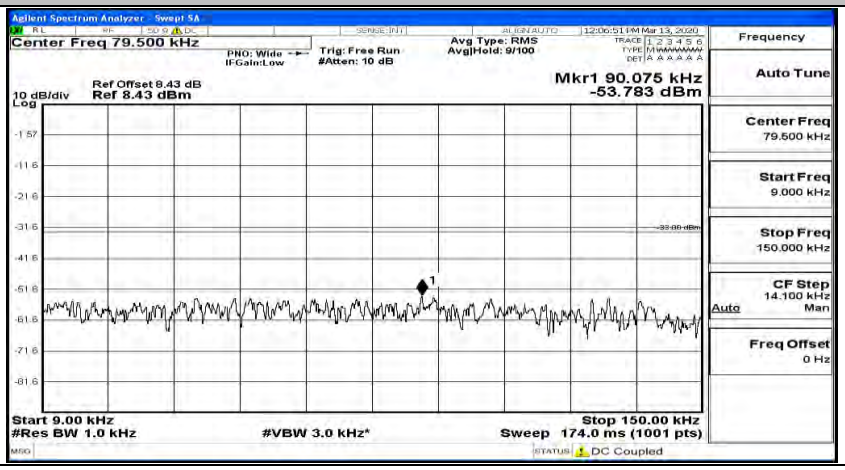
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

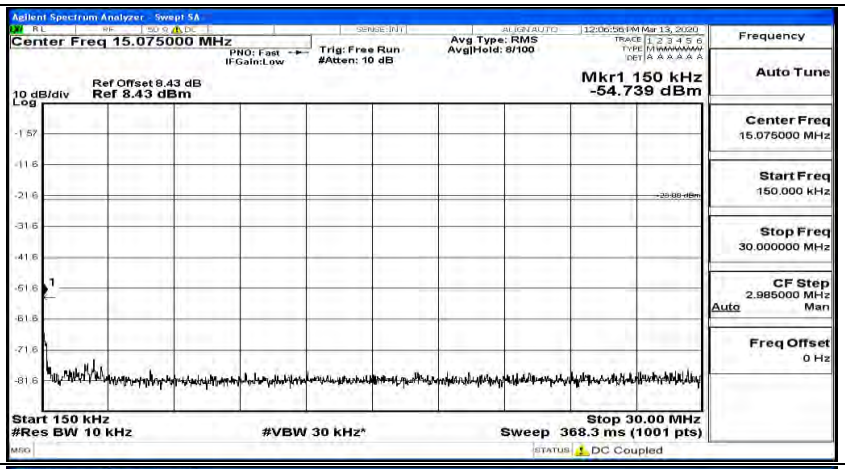




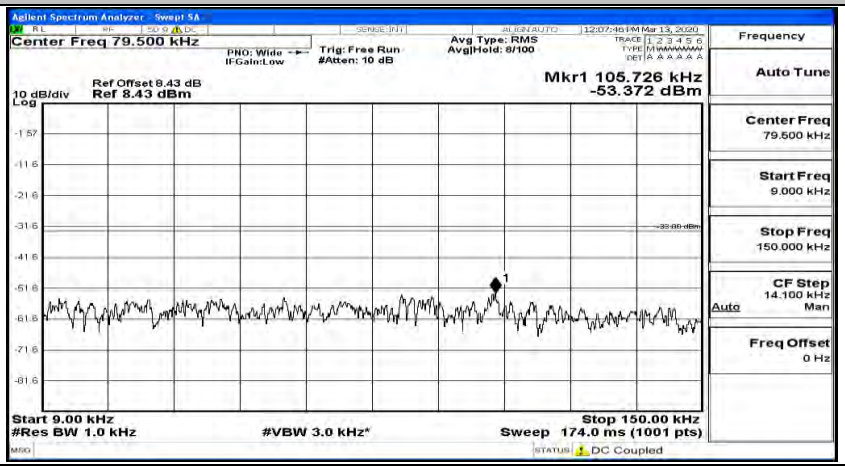


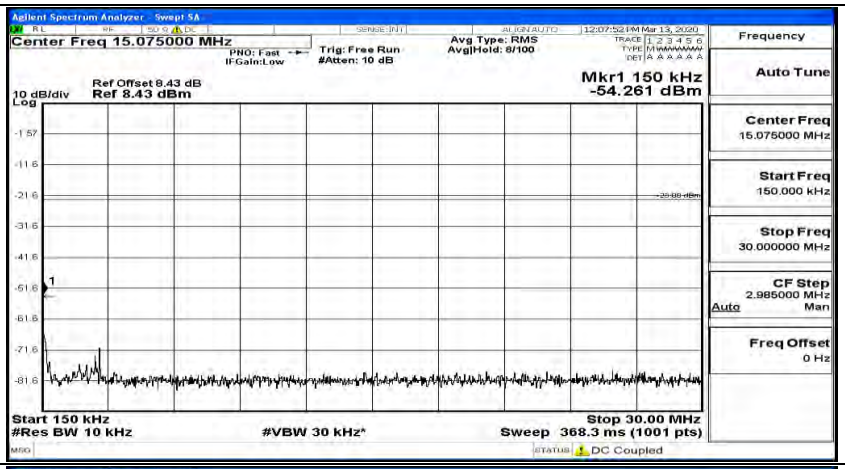
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



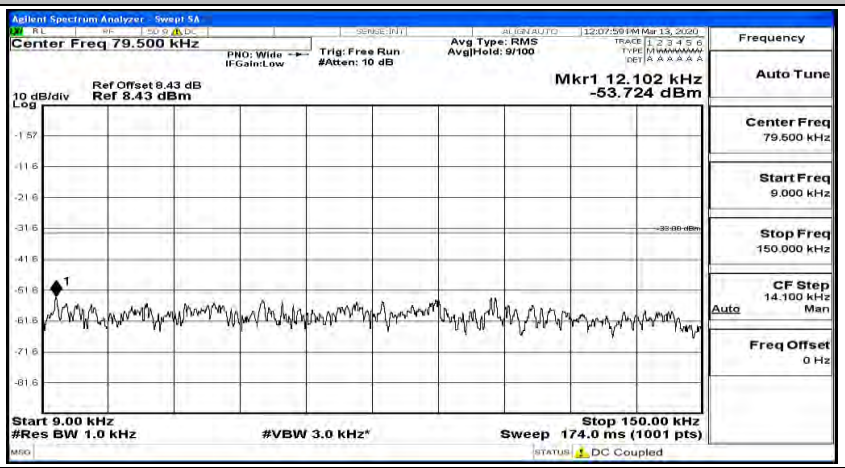


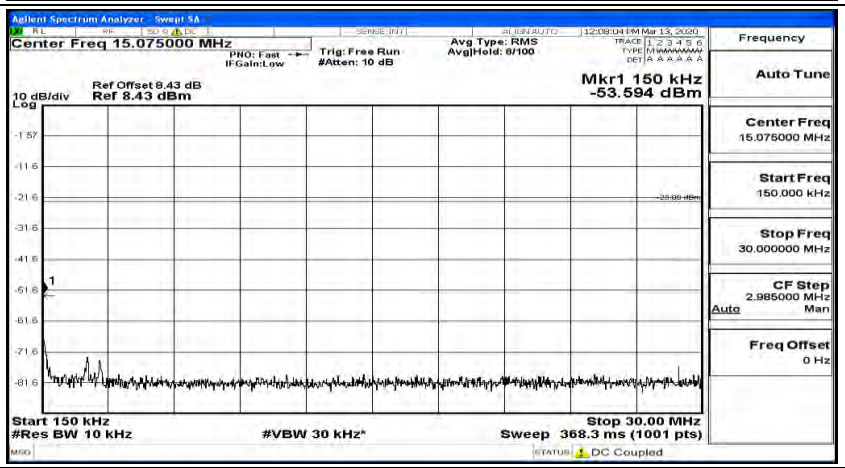
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

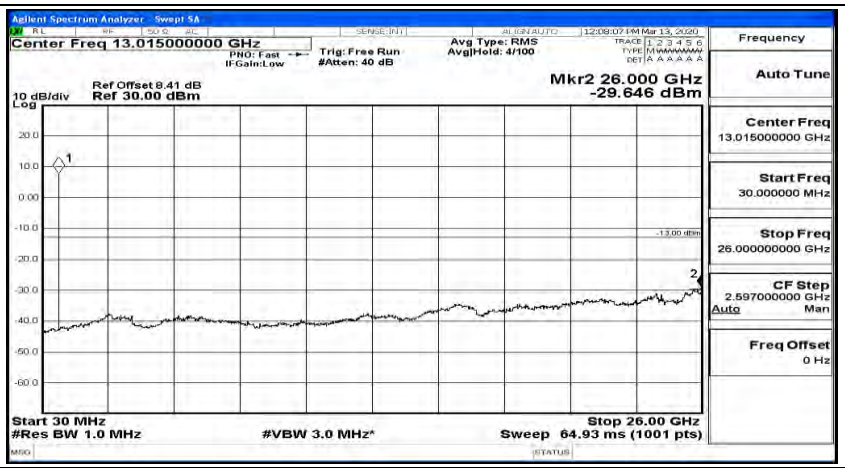
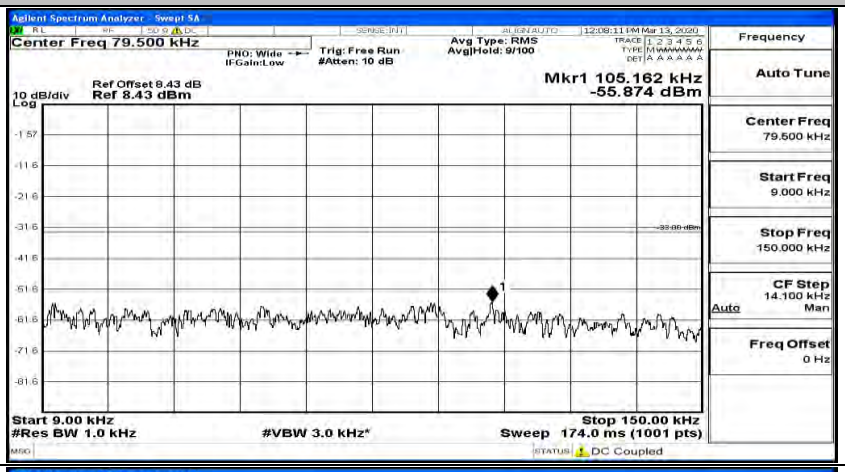
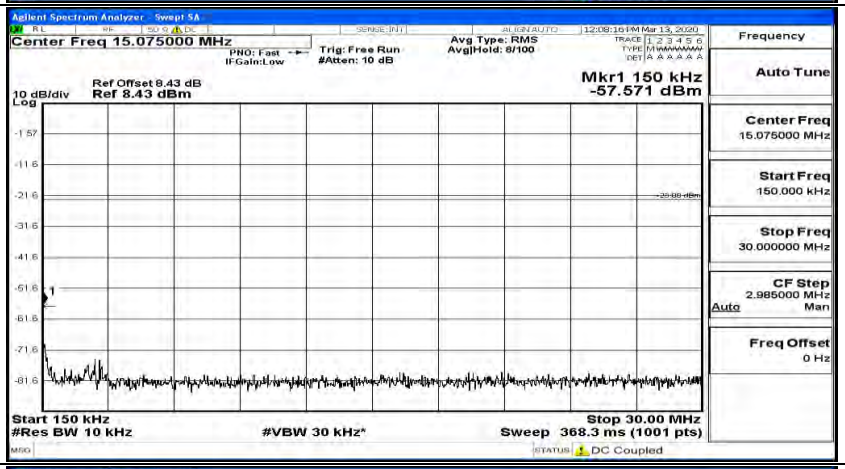




(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7







(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14