Appendix G: Test Data for E-UTRA Band 7

Product Name: Tablet PC

Trade Mark: Bright Life

Test Model: TL11

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Tom.Liu

G.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	21.00	17.13	PASS
		1	12	21.34	16.45	PASS
		1	24	21.35	15.45	PASS
		12	0	21.72	15.61	PASS
		12	6	21.40	15.31	PASS
		12	13	21.99	14.88	PASS
		25	0	21.34	15.36	PASS
	MCH	1	0	21.52	17.82	PASS
		1	12	21.55	17.82	PASS
		1	24	21.00	17.28	PASS
		12	0	21.59	16.63	PASS
		12	6	21.54	16.57	PASS
		12	13	21.34	16.39	PASS
		25	0	21.47	16.53	PASS
	HCH	1	0	21.94	15.89	PASS
		1	12	21.45	16.41	PASS
		1	24	21.50	16.45	PASS
		12	0	21.21	15.28	PASS
		12	6	21.43	15.51	PASS
		12	13	21.57	15.64	PASS
		25	0	21.41	15.41	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	21.13	17.13	PASS
		1	24	21.46	15.41	PASS
		1	49	21.96	13.88	PASS
		25	0	21.08	15.12	PASS
		25	12	21.40	14.43	PASS
		25	25	21.58	13.61	PASS
		50	0	21.30	14.33	PASS
	MCH	1	0	21.30	17.38	PASS
		1	24	21.56	17.60	PASS
		1	49	21.49	16.52	PASS
		25	0	21.51	16.54	PASS
		25	12	21.47	16.53	PASS
		25	25	21.15	16.20	PASS
		50	0	21.31	16.37	PASS
	HCH	1	0	21.59	14.76	PASS
		1	24	21.90	16.07	PASS
		1	49	21.68	16.83	PASS
		25	0	21.33	14.38	PASS
		25	12	21.92	14.97	PASS
		25	25	21.51	15.56	PASS
		50	0	21.96	14.96	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	21.19	17.14	PASS
		1	37	21.46	14.40	PASS
		1	74	21.29	13.29	PASS
		37	0	21.76	14.69	PASS
		37	18	21.70	13.62	PASS
		37	38	21.71	12.65	PASS
		75	0	21.76	13.71	PASS
	MCH	1	0	21.80	16.85	PASS
		1	37	21.56	17.61	PASS
		1	74	21.70	15.74	PASS
		37	0	21.44	16.41	PASS
		37	18	21.49	16.48	PASS
		37	38	21.88	15.85	PASS
		75	0	21.15	16.15	PASS
	HCH	1	0	21.68	13.92	PASS
		1	37	21.29	15.51	PASS
		1	74	21.79	17.00	PASS
		37	0	21.35	13.37	PASS
		37	18	21.18	14.22	PASS
		37	38	21.22	15.26	PASS
		75	0	21.41	14.39	PASS

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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	21.29	17.70	PASS
		1	49	21.82	14.25	PASS
		1	99	21.94	14.42	PASS
		50	0	21.11	14.07	PASS
		50	25	21.94	12.93	PASS
		50	50	21.24	12.23	PASS
		100	0	21.31	13.27	PASS
	MCH	1	0	21.96	16.70	PASS
		1	49	21.68	18.14	PASS
		1	99	21.10	15.54	PASS
		50	0	21.14	16.17	PASS
		50	25	21.31	16.33	PASS
		50	50	21.58	15.58	PASS
		100	0	21.83	15.83	PASS
	HCH	1	0	21.61	13.63	PASS
		1	49	21.45	14.52	PASS
		1	99	21.84	16.88	PASS
		50	0	21.93	12.96	PASS
		50	25	21.55	13.60	PASS
		50	50	21.89	14.91	PASS
		100	0	21.92	13.95	PASS

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G.2 Peak-to-Average Ratio

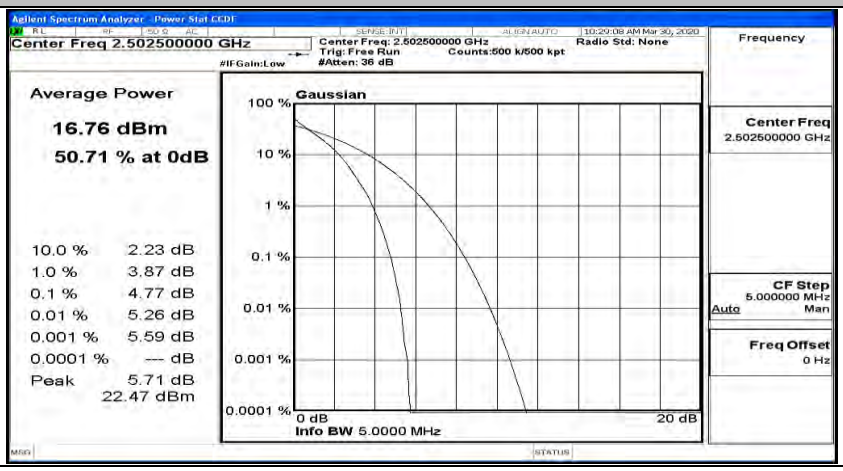
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.77	<13	PASS
	MCH	5.08	<13	PASS
	HCH	5.13	<13	PASS
16QAM	LCH	5.56	<13	PASS
	MCH	5.94	<13	PASS
	HCH	5.83	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.94	<13	PASS
	MCH	5.2	<13	PASS
	HCH	5.27	<13	PASS
16QAM	LCH	5.69	<13	PASS
	MCH	5.96	<13	PASS
	HCH	6.01	<13	PASS

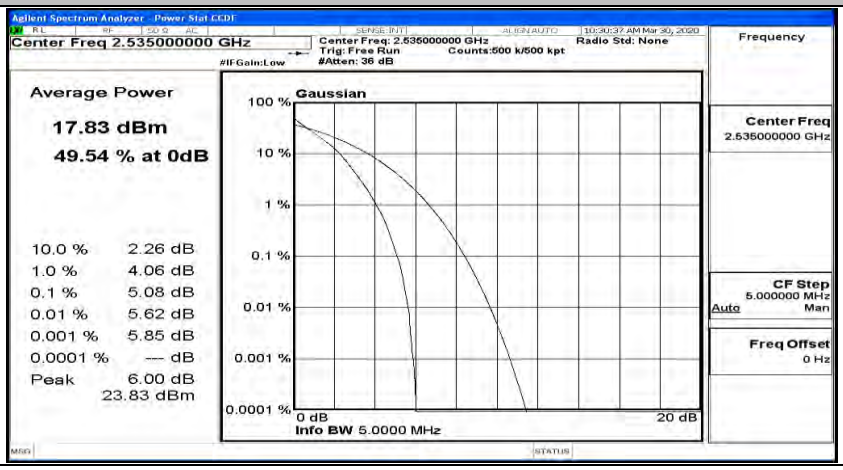
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.84	<13	PASS
	MCH	4.87	<13	PASS
	HCH	5.08	<13	PASS
16QAM	LCH	5.85	<13	PASS
	MCH	6.01	<13	PASS
	HCH	6.17	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.81	<13	PASS
	MCH	5.73	<13	PASS
	HCH	5.81	<13	PASS
16QAM	LCH	6.53	<13	PASS
	MCH	6.61	<13	PASS
	HCH	6.61	<13	PASS

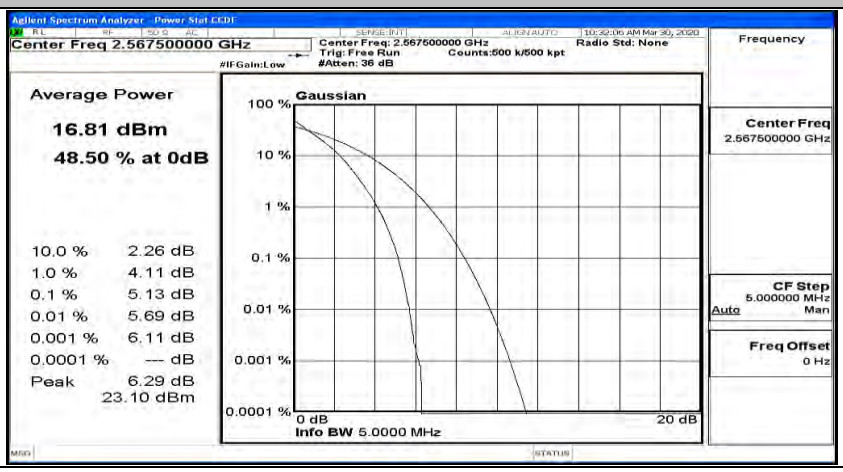
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



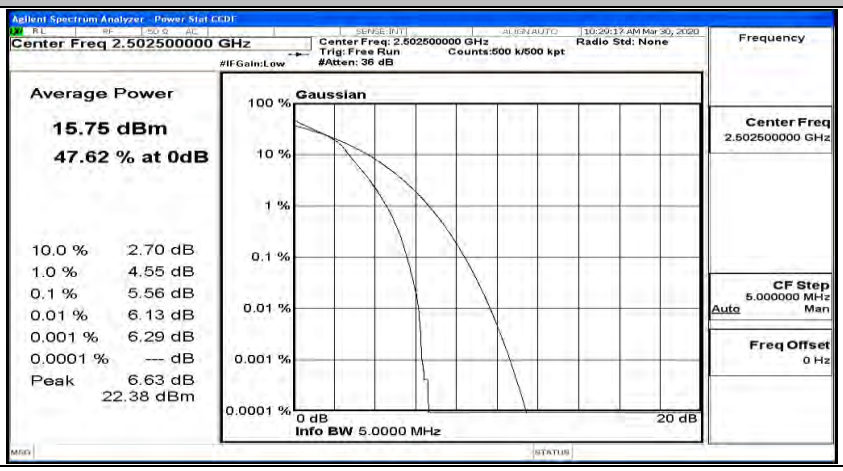
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



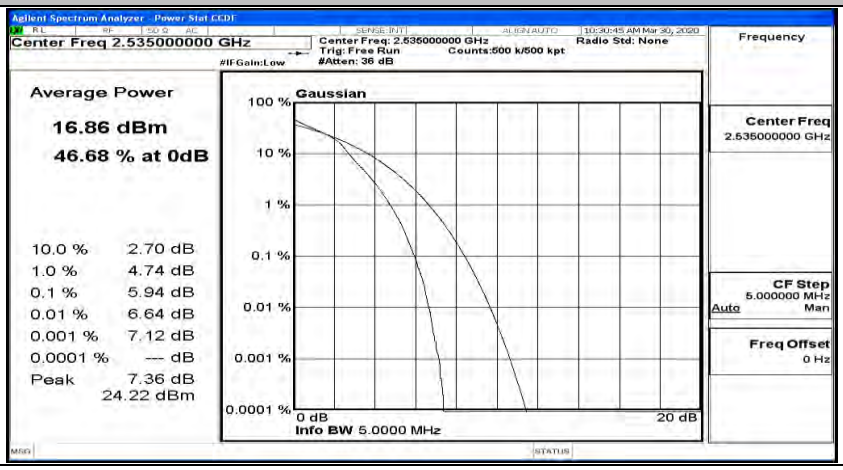
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



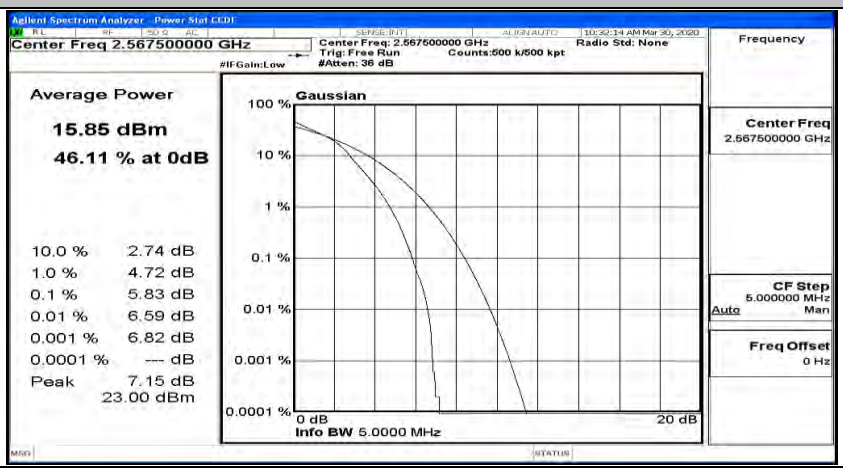
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



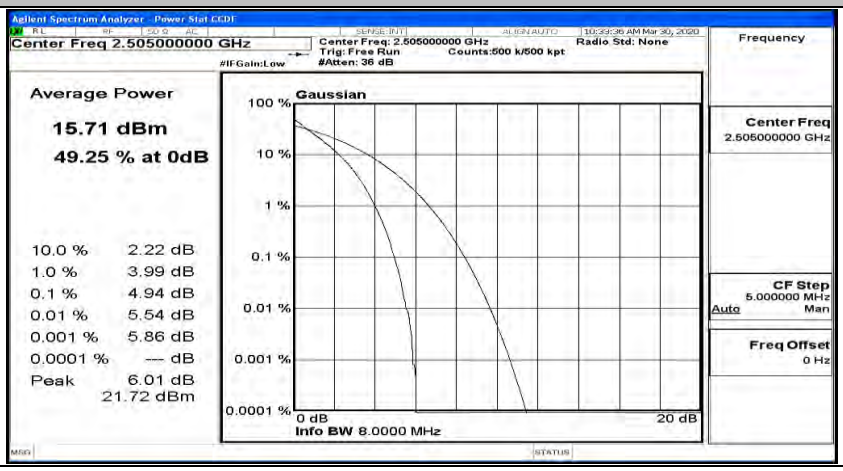
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



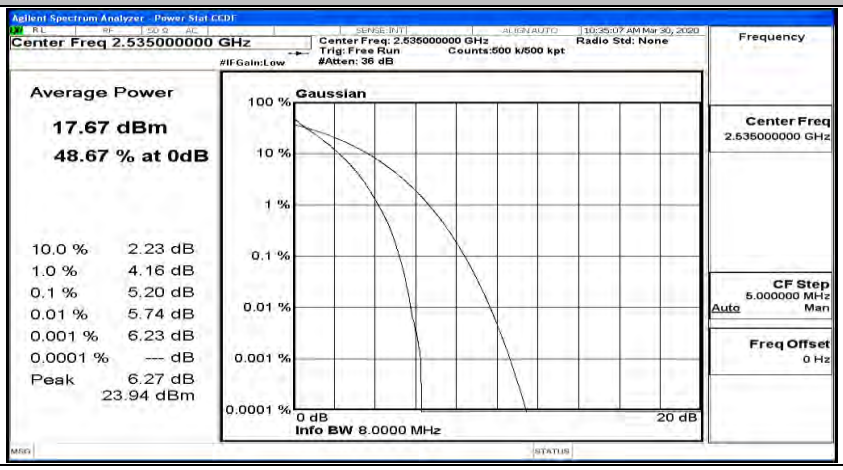
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



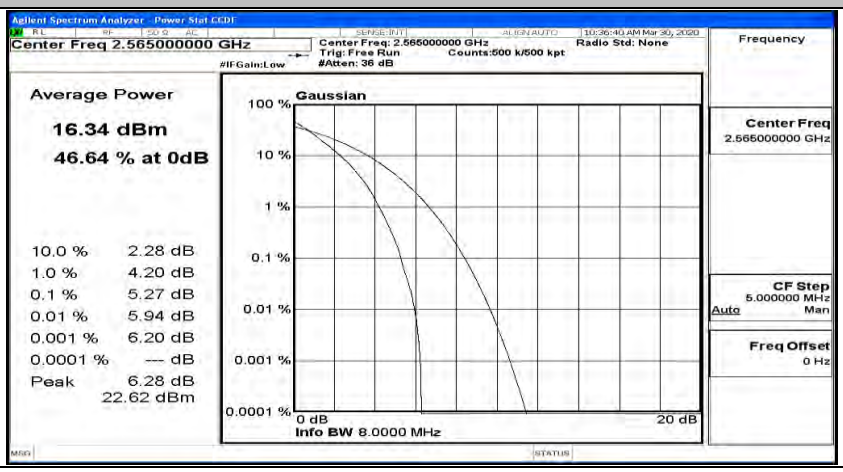
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



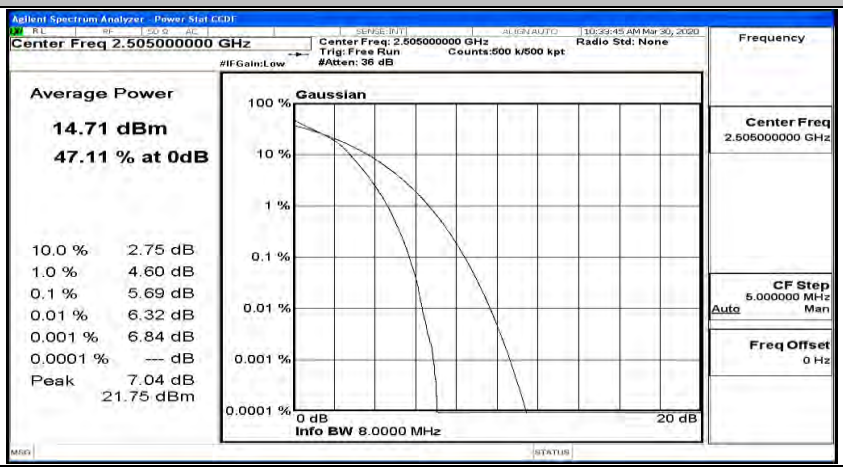
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



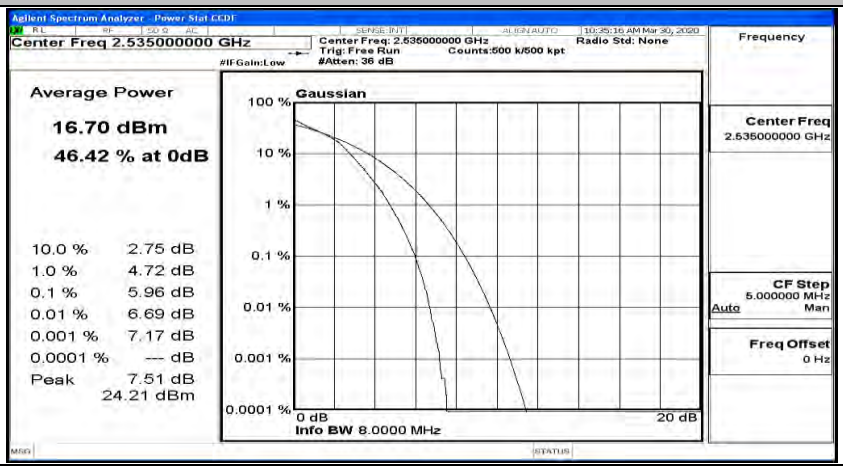
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



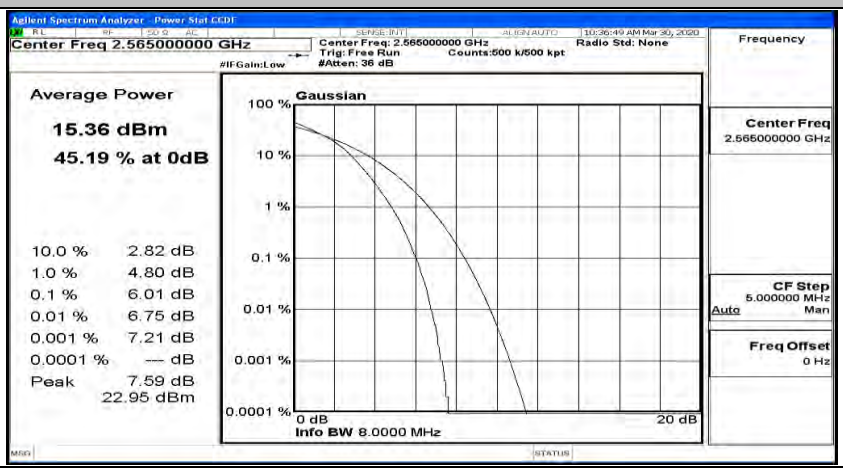
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



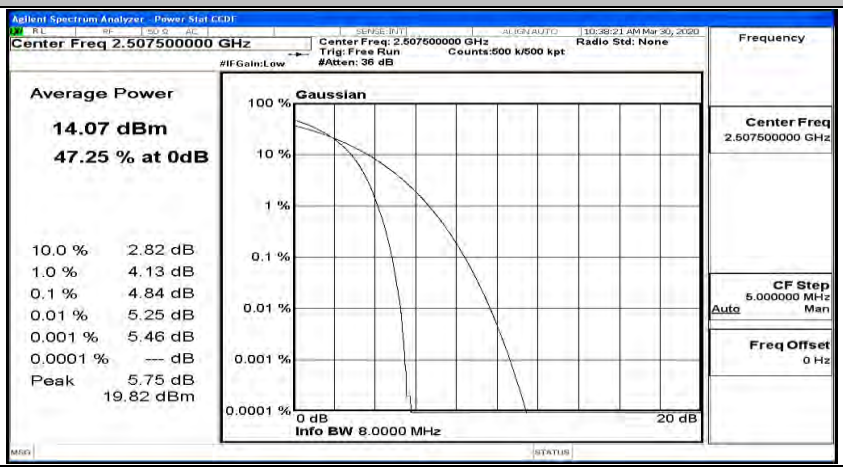
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



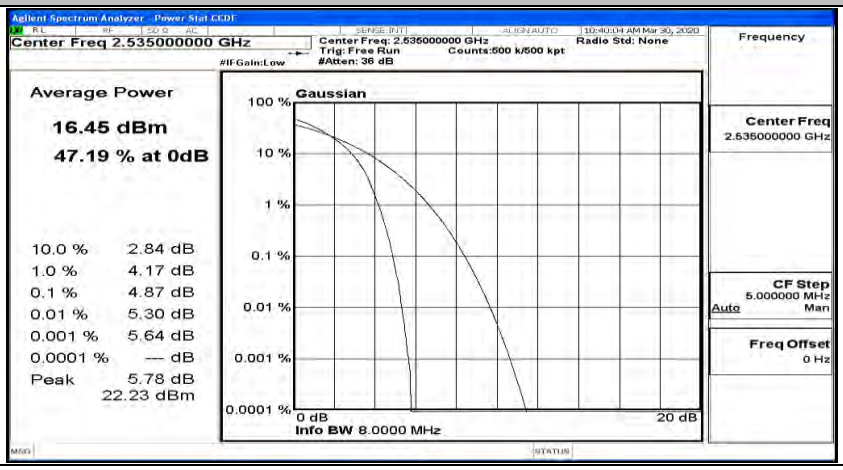
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



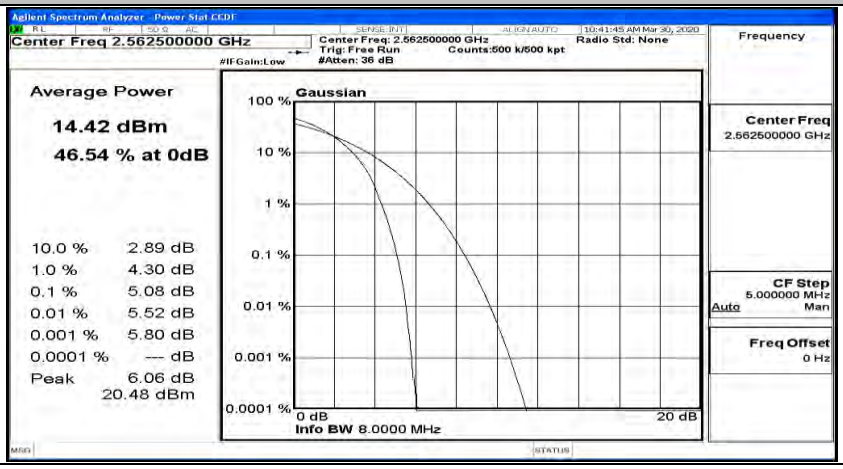
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



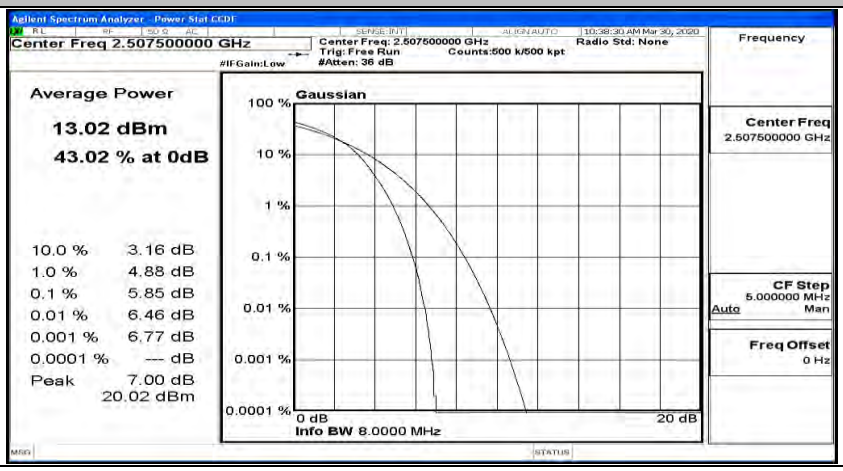
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



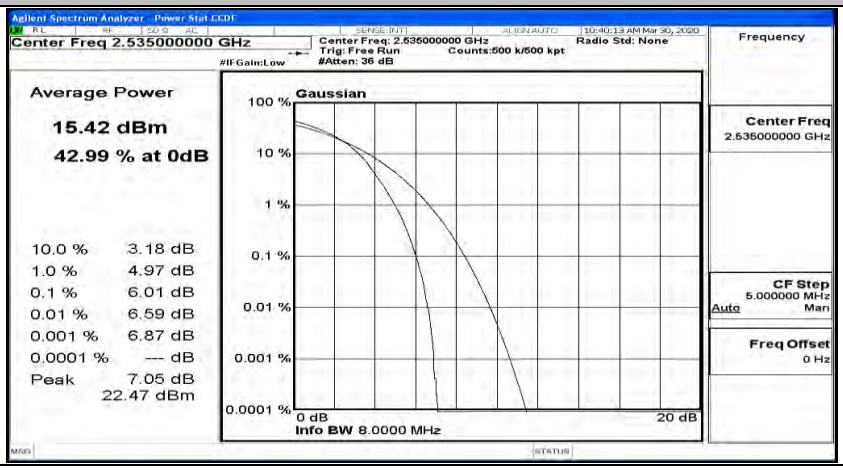
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



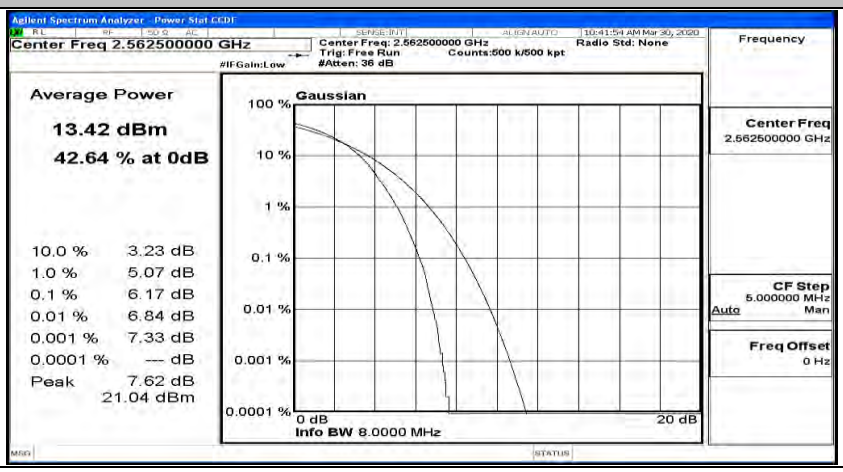
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



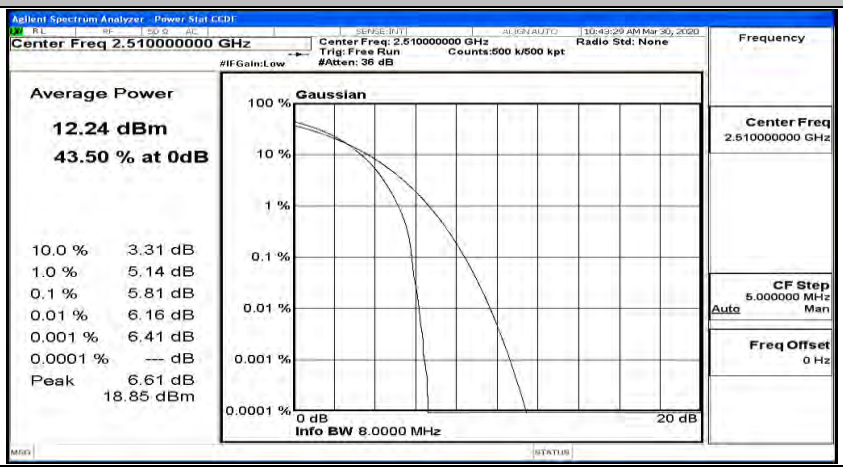
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



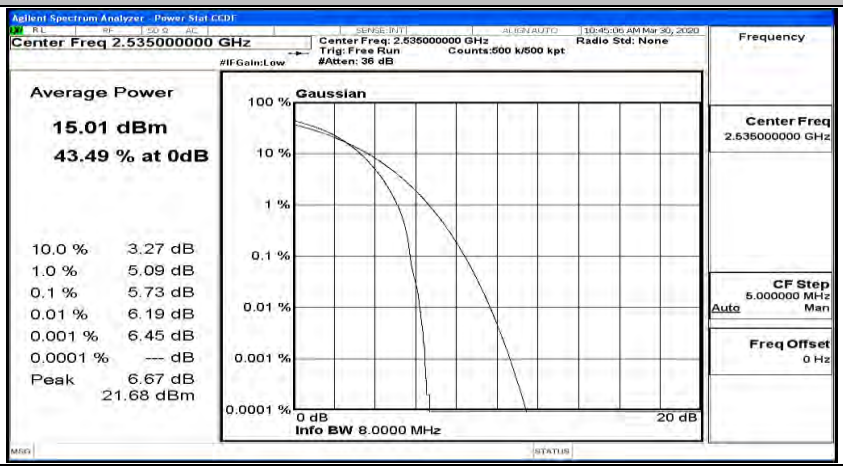
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



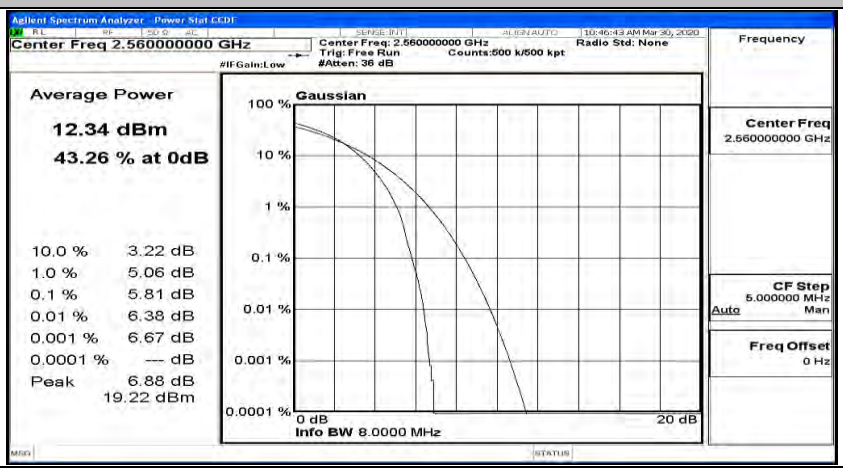
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



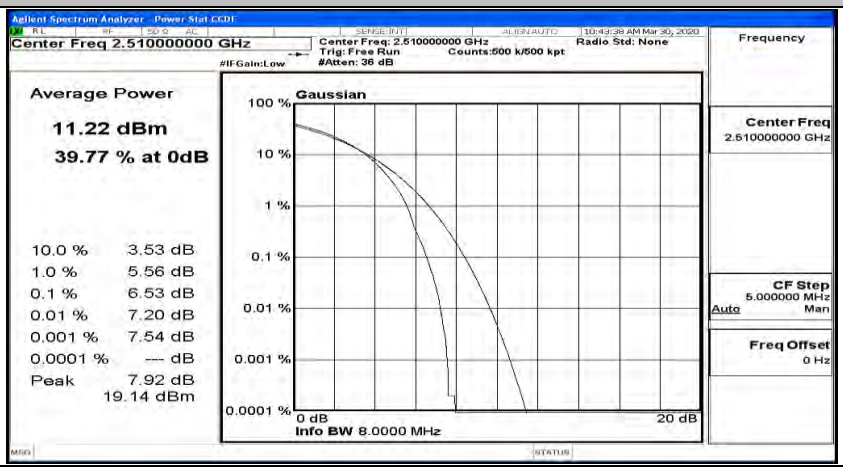
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



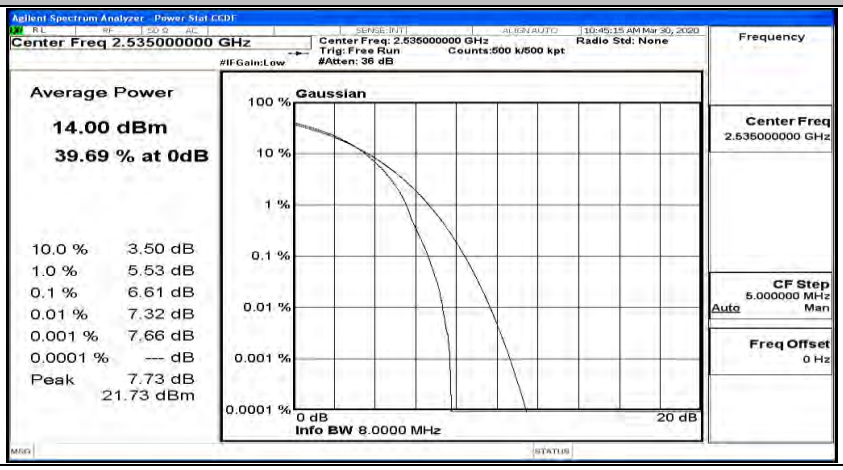
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



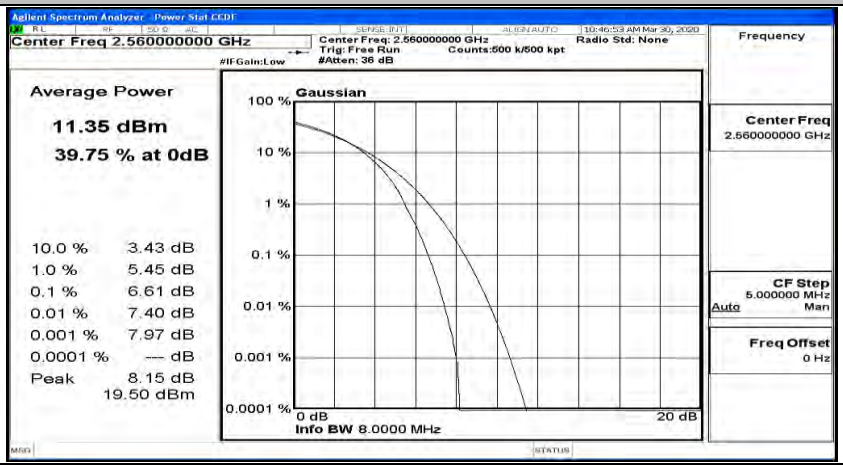
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



G.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	4.4784	4.878	PASS
	MCH	4.4771	4.785	PASS
	HCH	4.4710	4.791	PASS
16QAM	LCH	4.4759	4.818	PASS
	MCH	4.4844	4.824	PASS
	HCH	4.4723	4.787	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9435	9.392	PASS
	MCH	8.9298	9.469	PASS
	HCH	8.9423	9.428	PASS
16QAM	LCH	8.9344	9.427	PASS
	MCH	8.9360	9.454	PASS
	HCH	8.9400	9.399	PASS

EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.399	14.09	PASS
	MCH	13.393	14.05	PASS
	HCH	13.426	14.05	PASS
16QAM	LCH	13.384	14.13	PASS
	MCH	13.388	14.11	PASS
	HCH	13.417	14.12	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.845	18.53	PASS
	MCH	17.823	18.53	PASS
	HCH	17.903	18.77	PASS
16QAM	LCH	17.842	18.64	PASS
	MCH	17.817	18.60	PASS
	HCH	17.928	18.79	PASS

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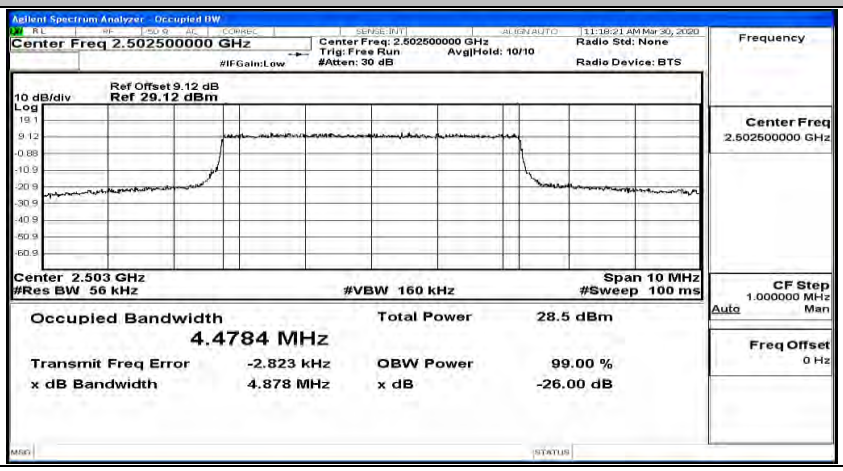
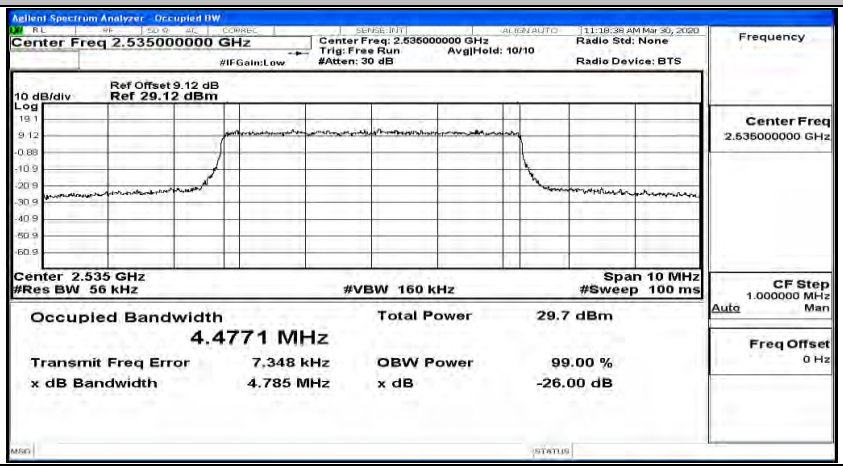
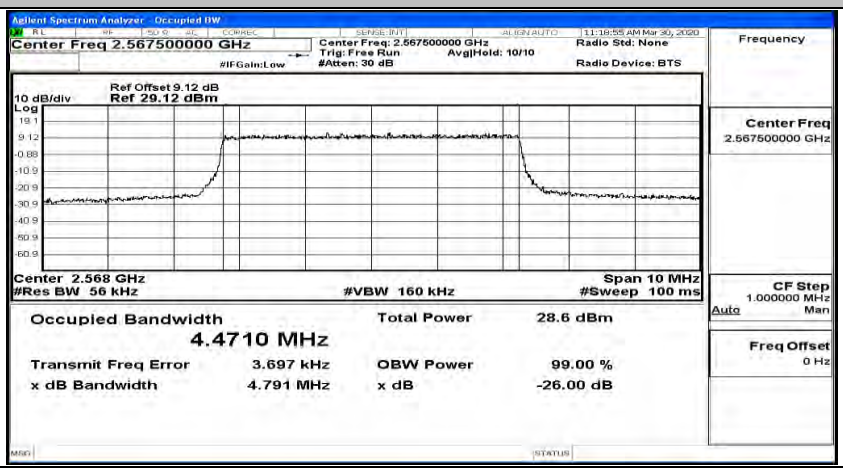
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



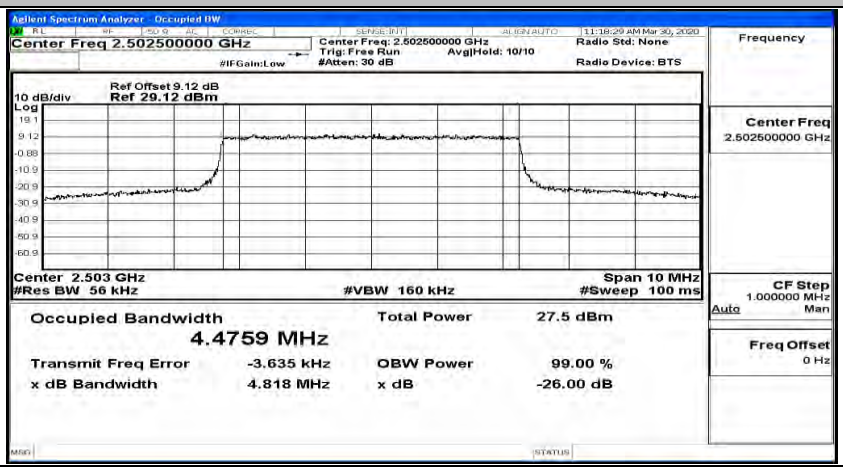
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



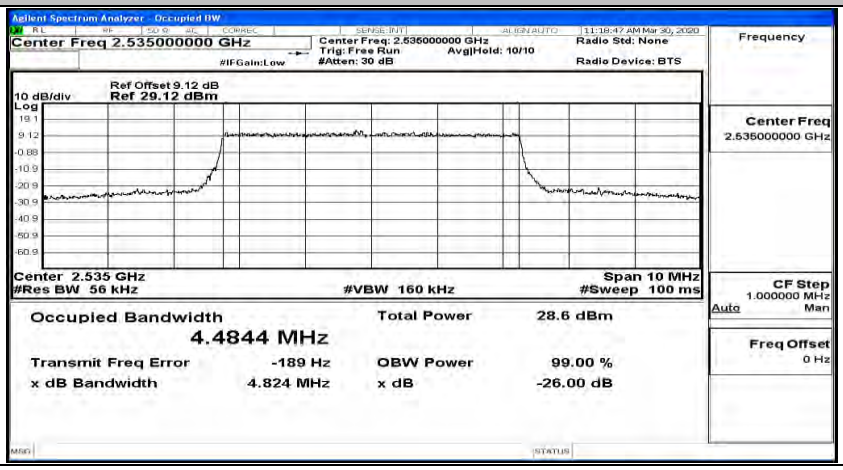
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



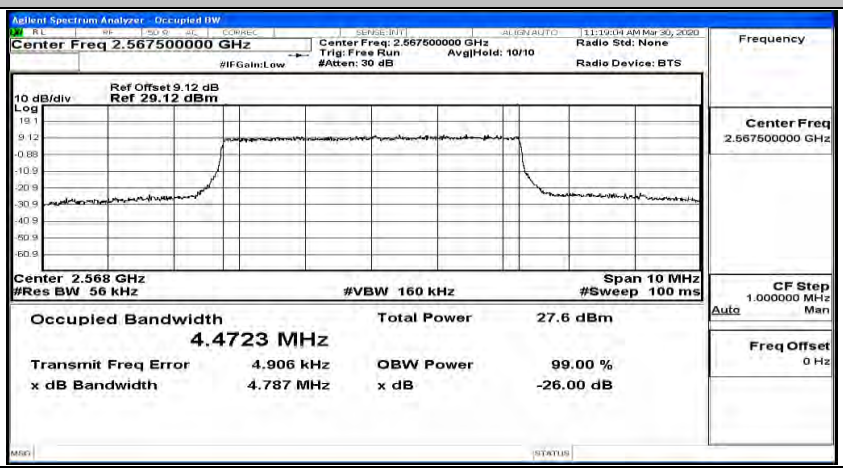
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



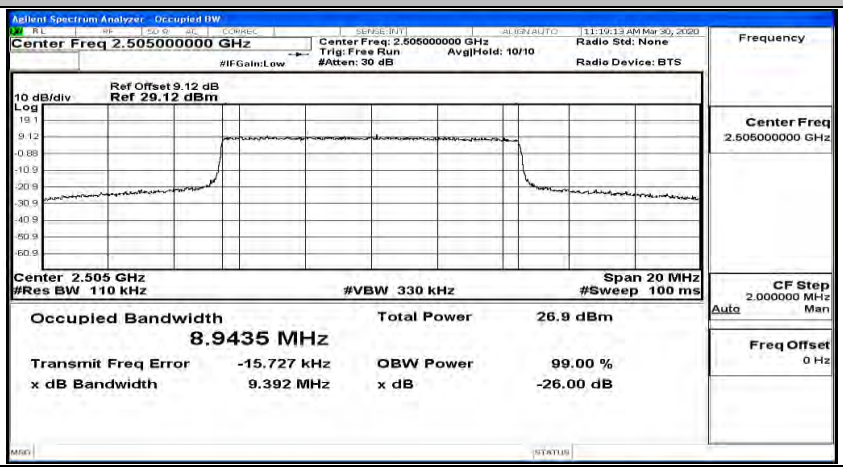
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



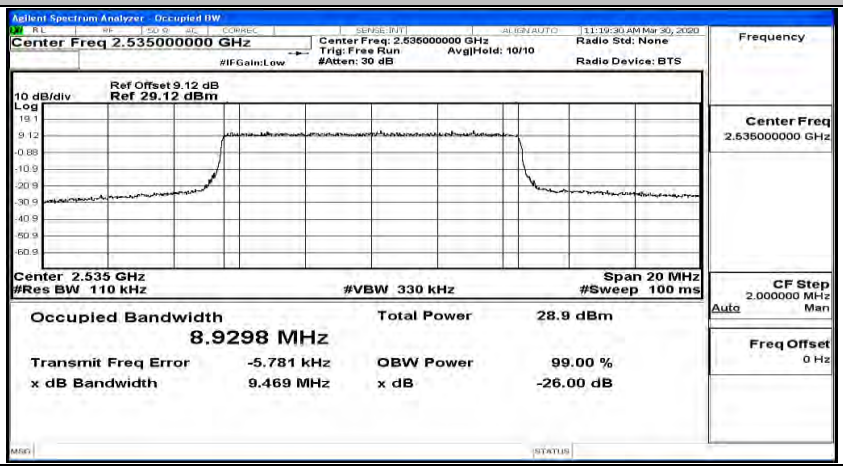
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



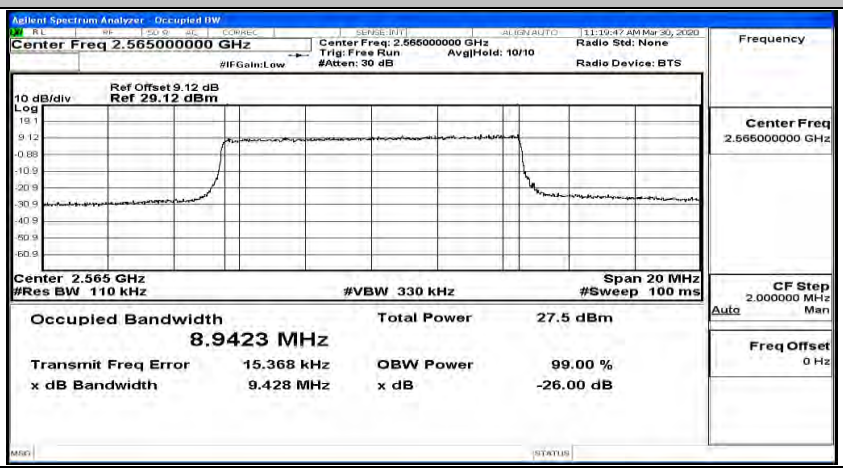
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



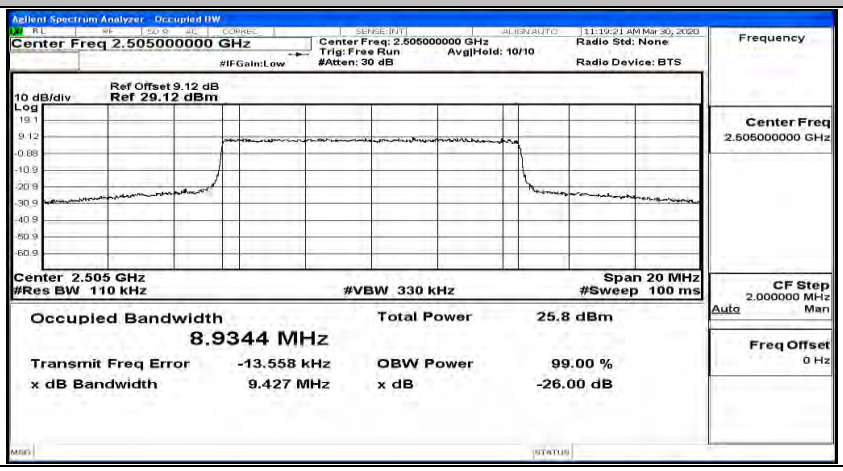
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



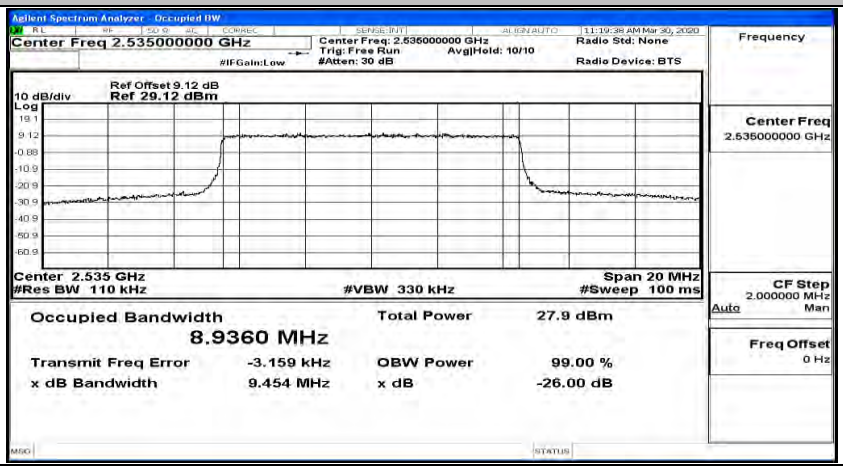
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



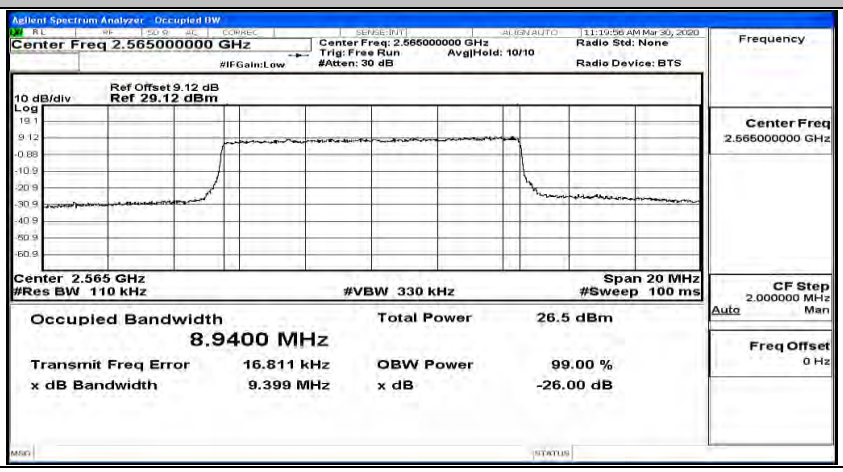
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



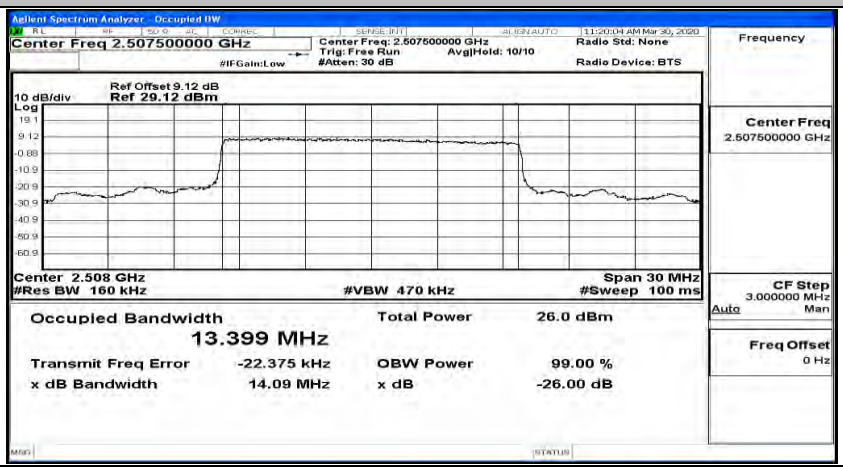
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



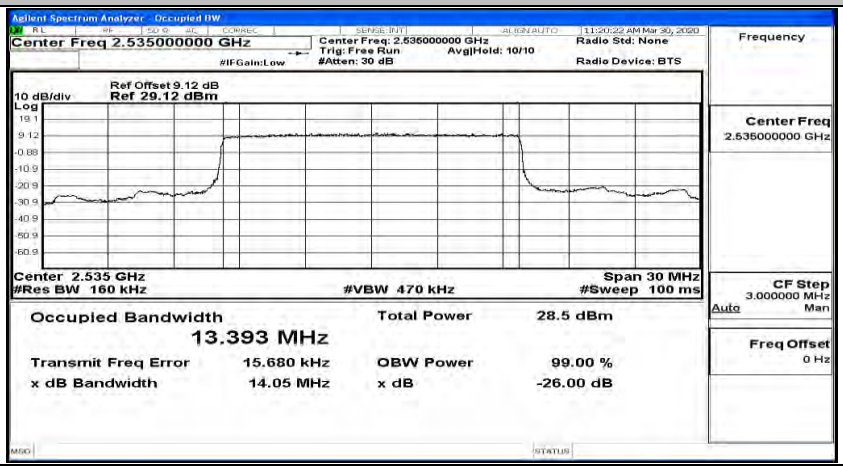
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



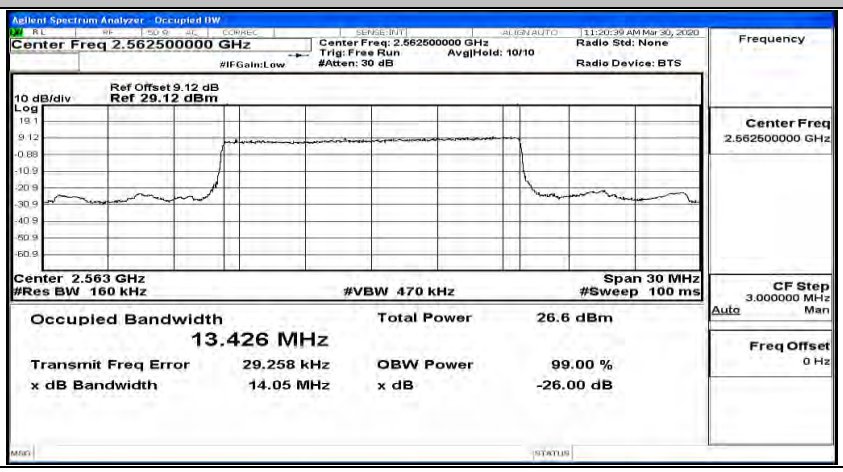
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



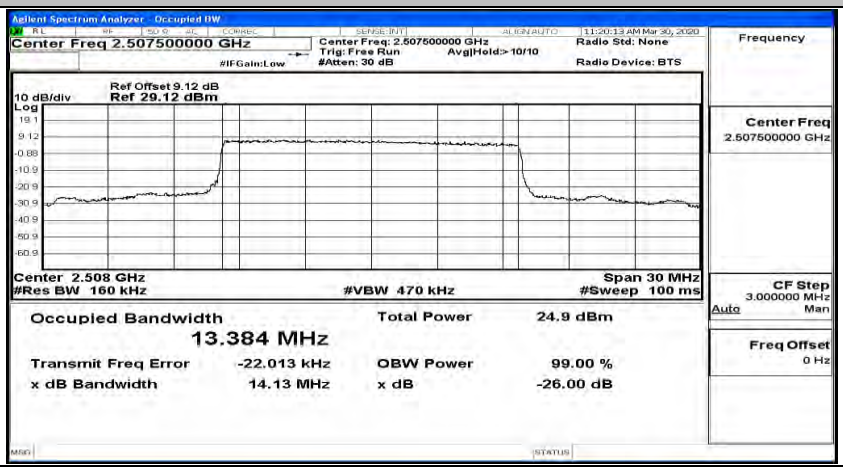
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



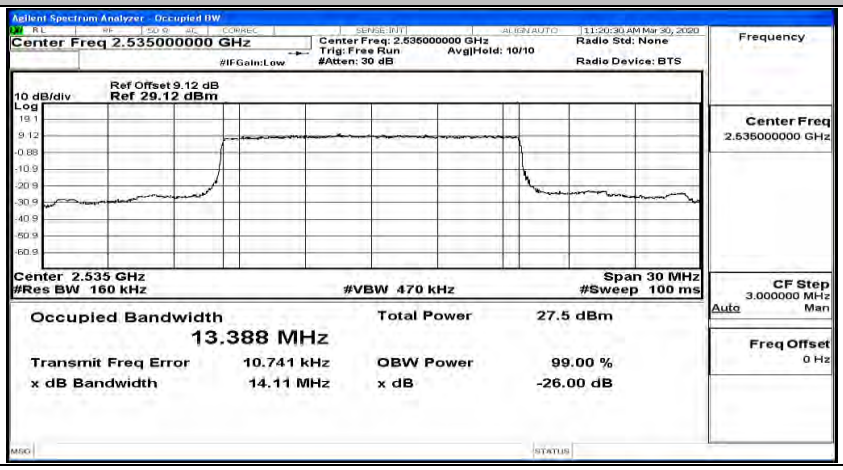
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



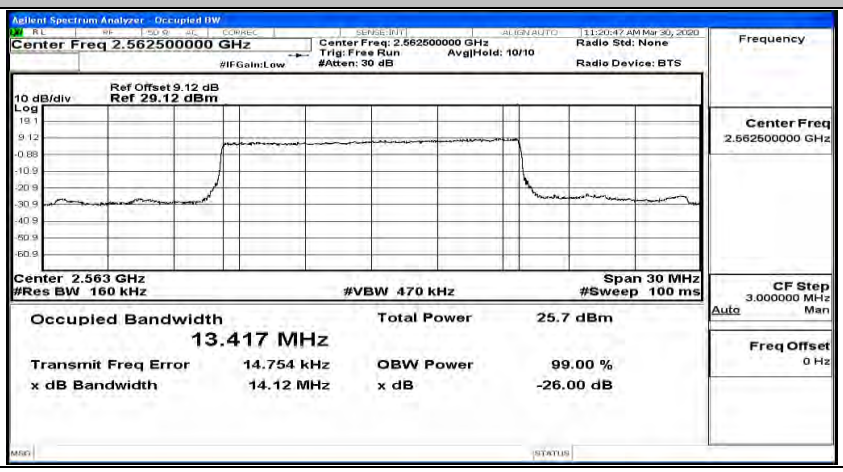
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



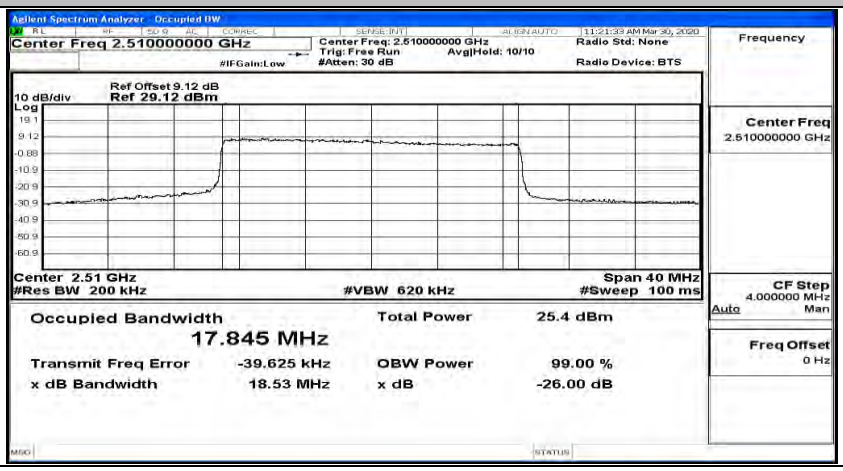
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



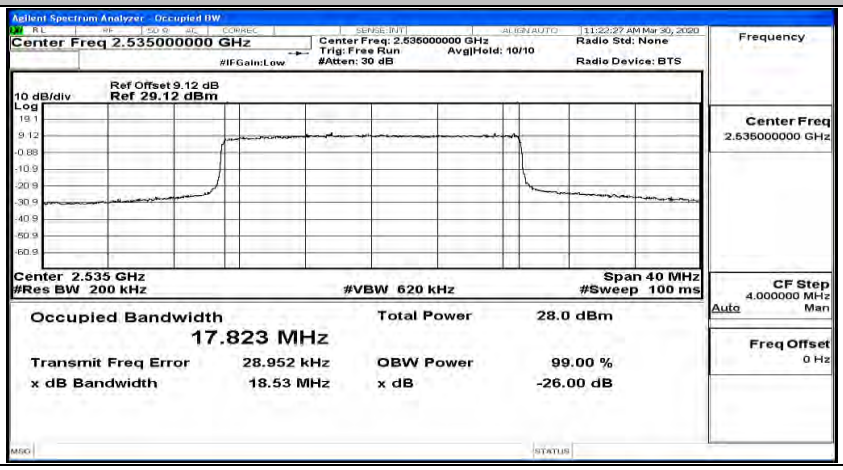
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



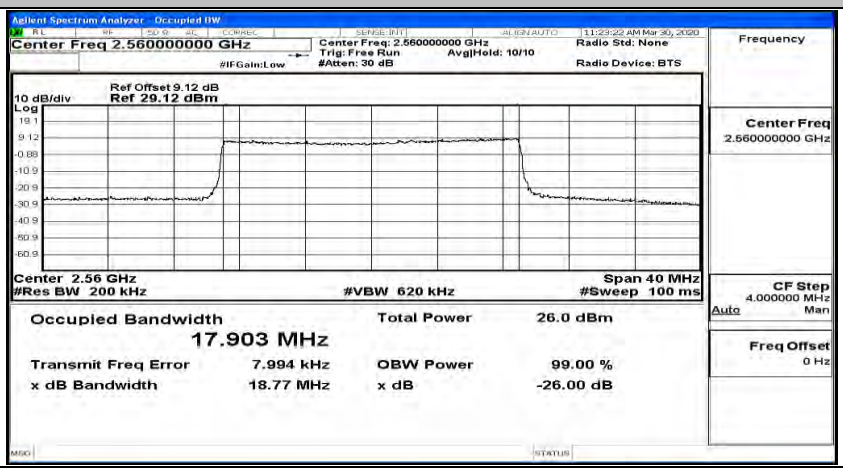
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



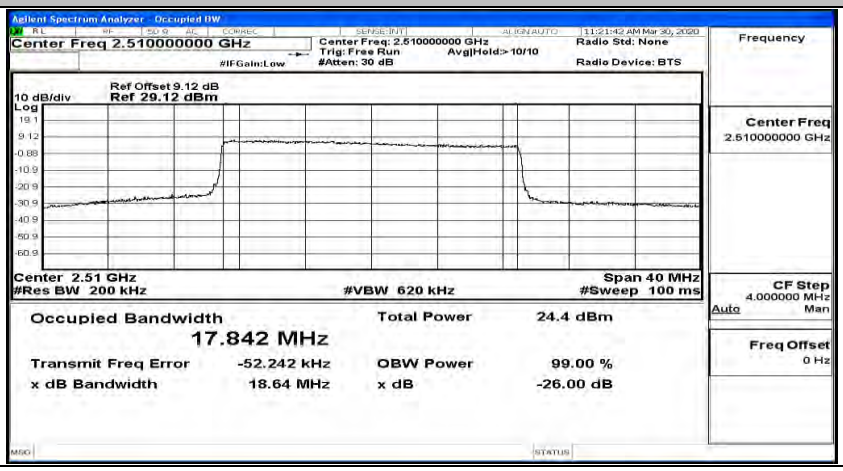
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



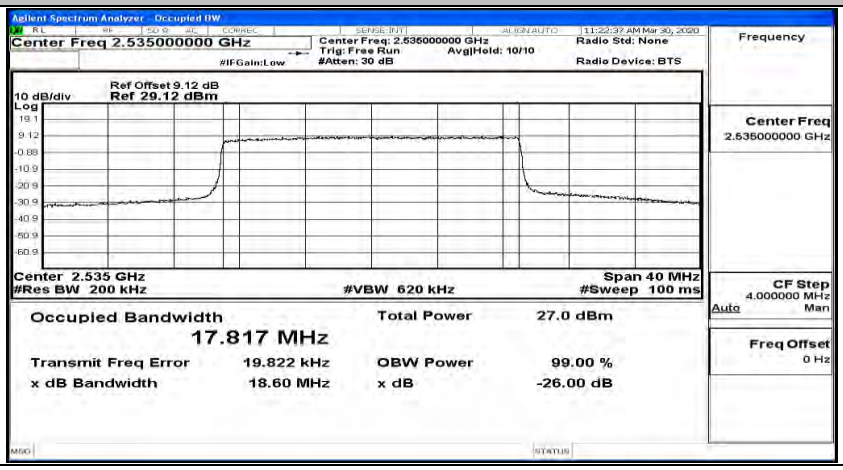
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



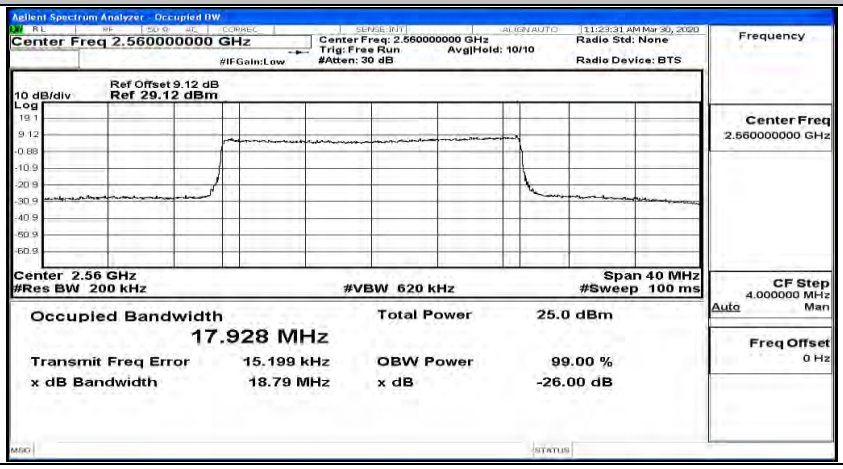
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



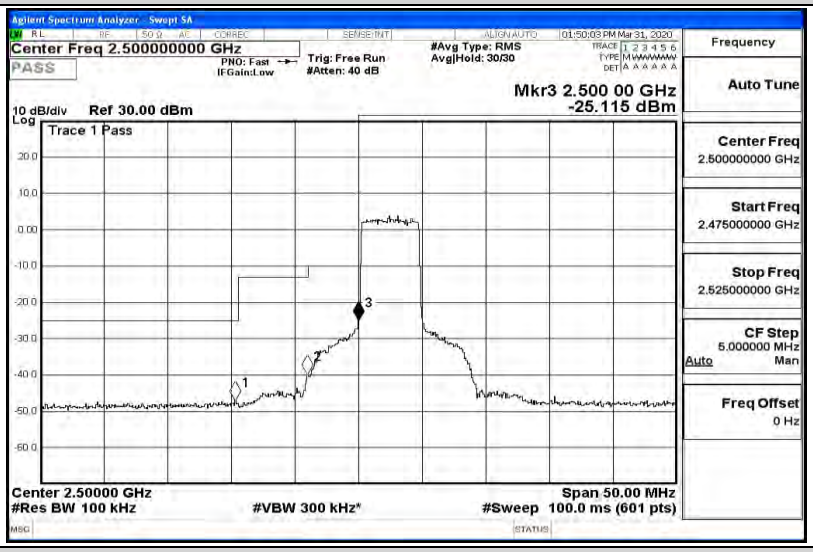
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



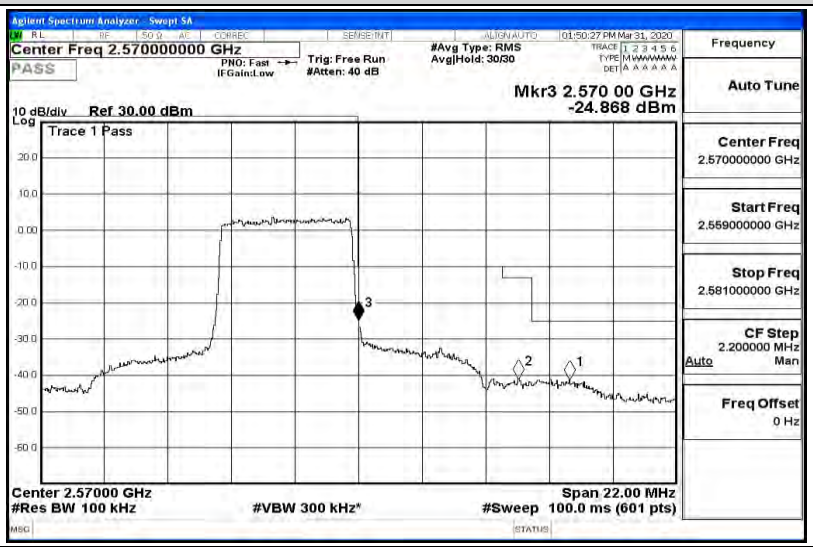
G.4 Band Edge

Test Graphs

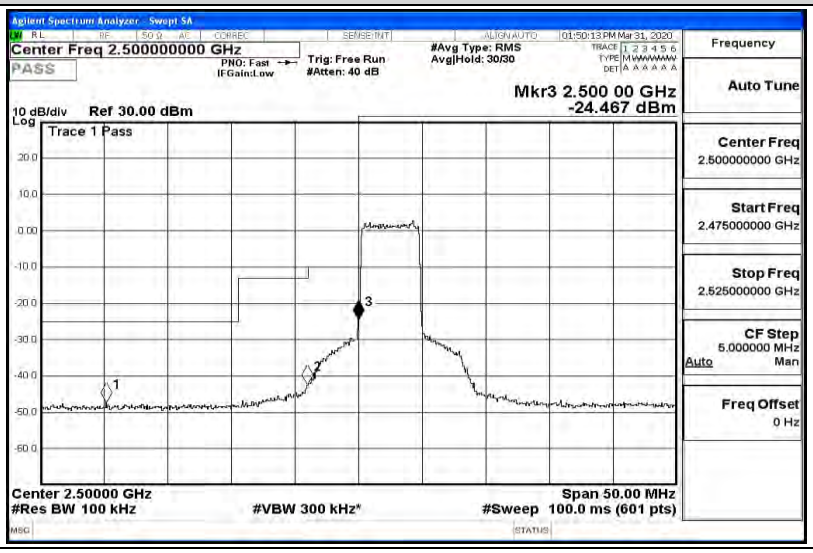
Band7-5MHz-QPSK-20775-25RB#0



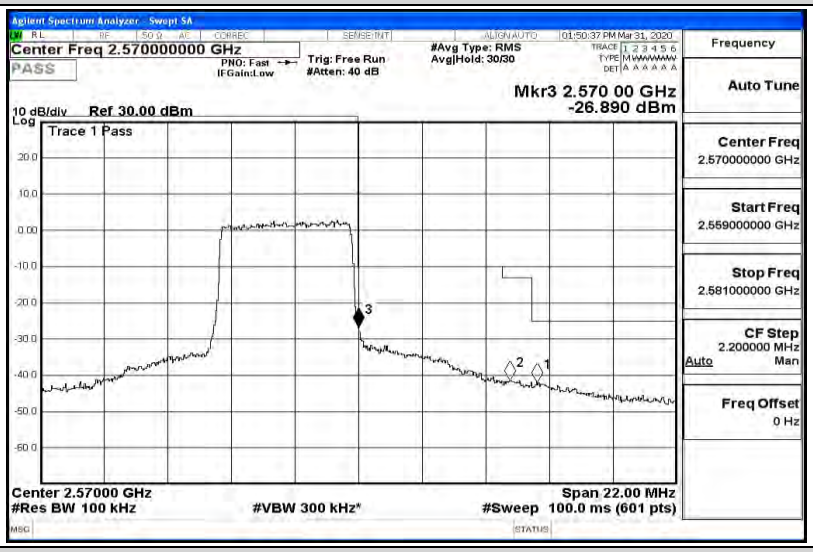
Band7-5MHz-QPSK-21425-25RB#0



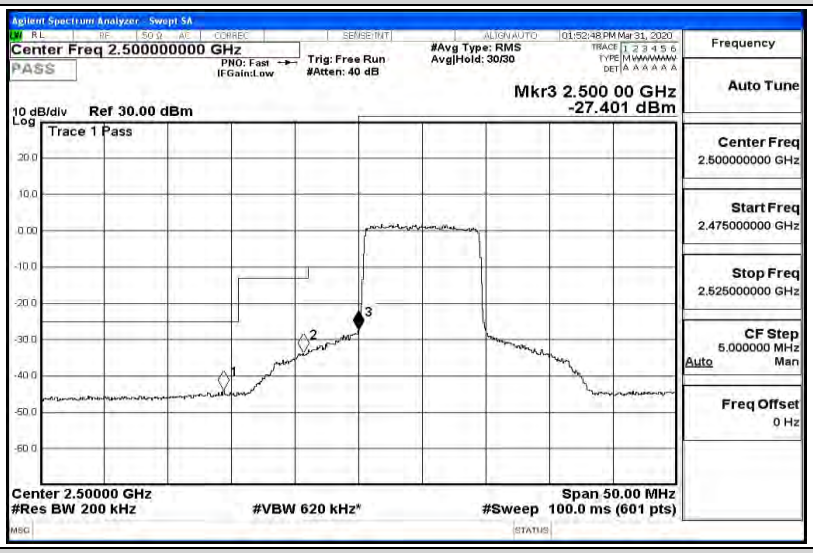
Band7-5MHz-16QAM-20775-25RB#0



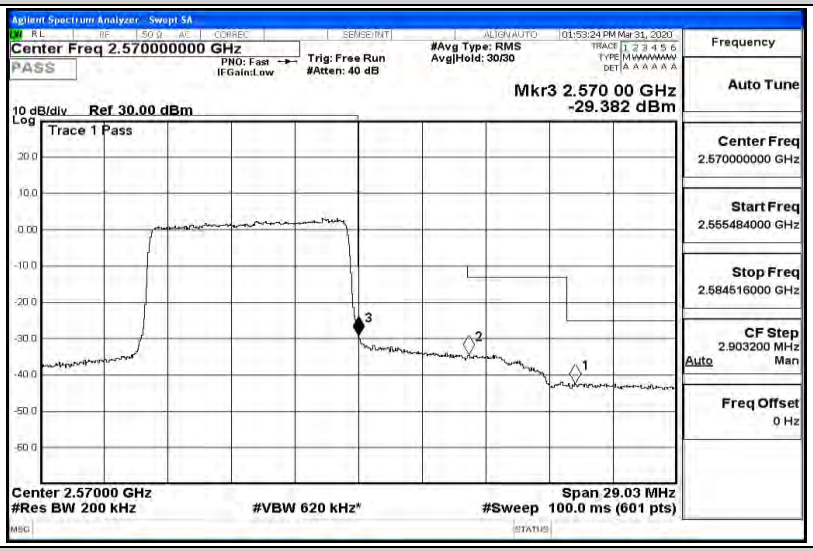
Band7-5MHz-16QAM-21425-25RB#0



Band7-10MHz-QPSK-20800-50RB#0



Band7-10MHz-QPSK-21400-50RB#0



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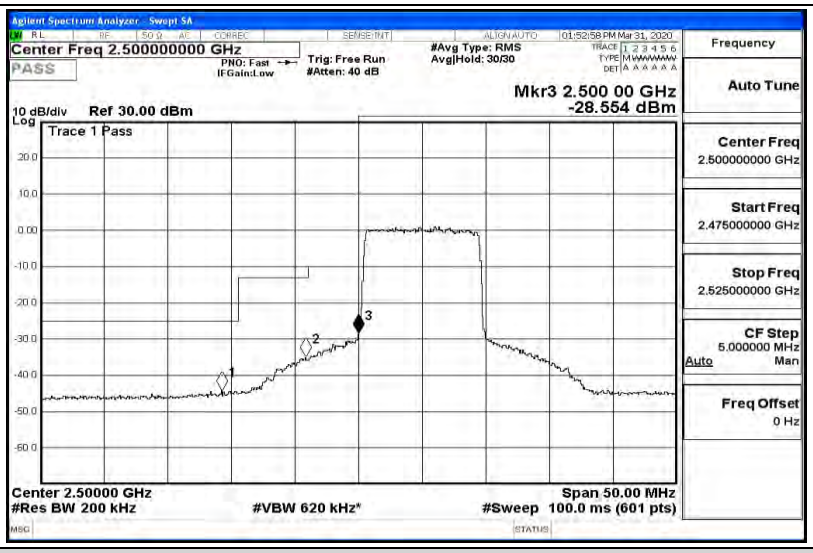
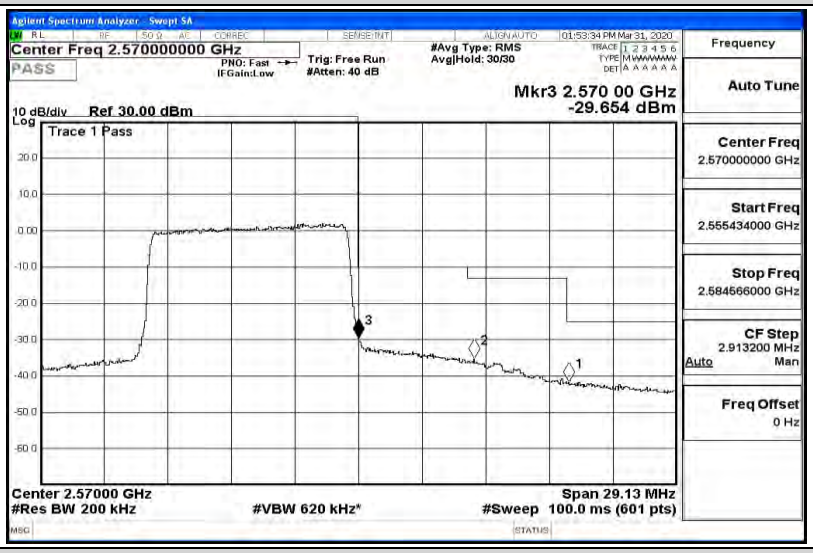
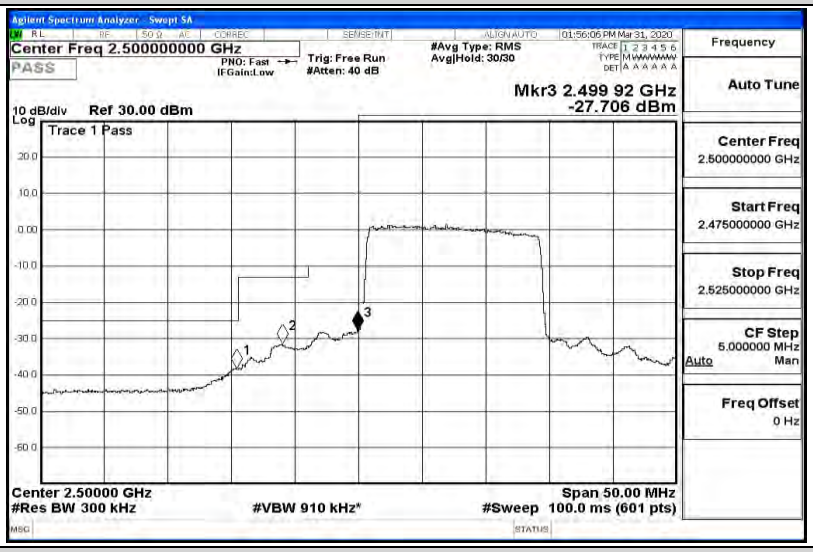


Band7-10MHz-16QAM-21400-50RB#0



Band7-15MHz-QPSK-20825-75RB#0



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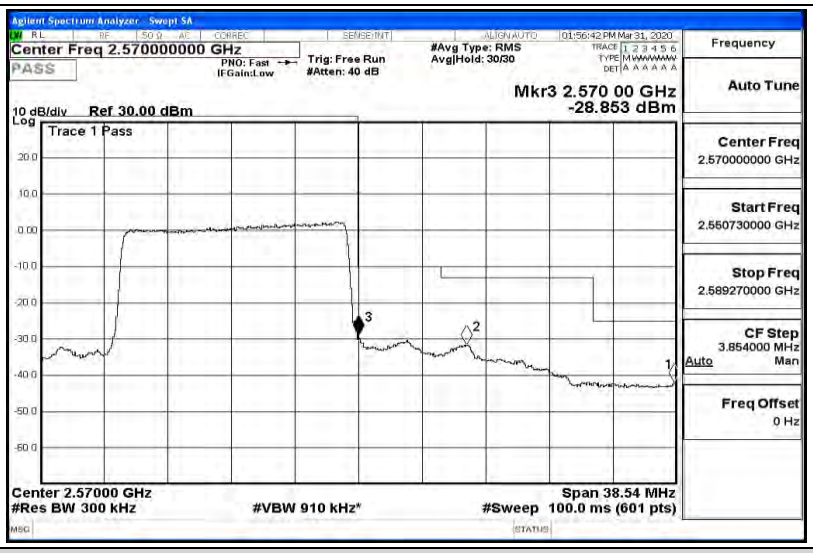
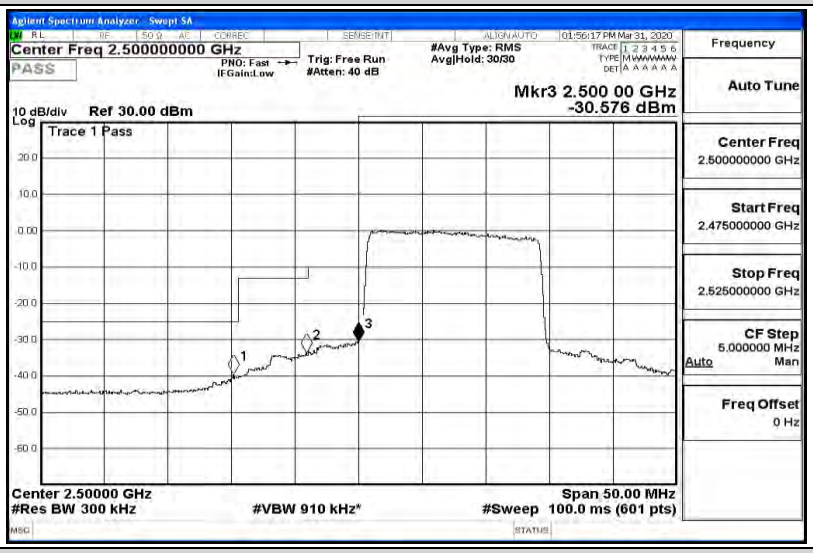
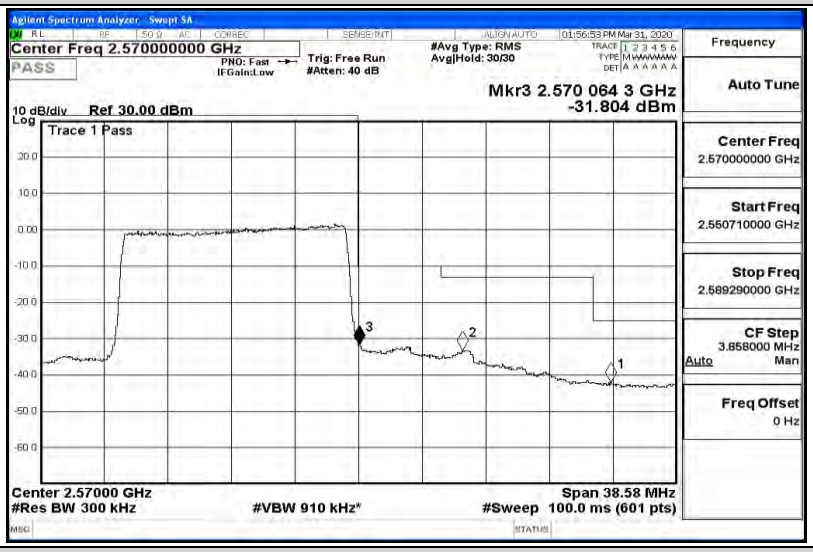


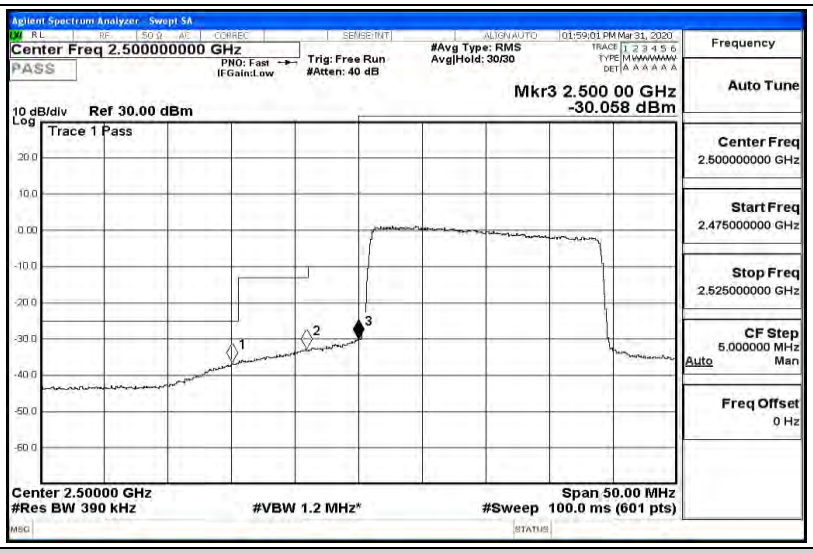
Band7-15MHz-16QAM-20825-75RB#0



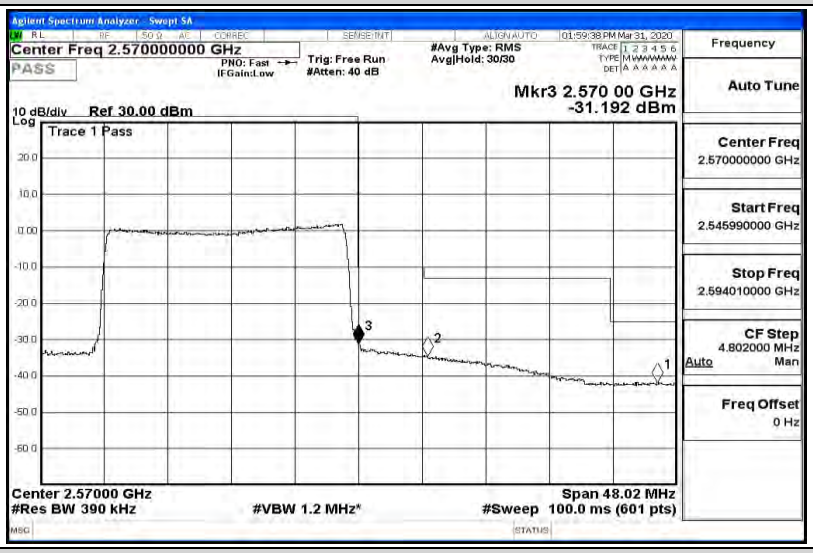
Band7-15MHz-16QAM-21375-75RB#0



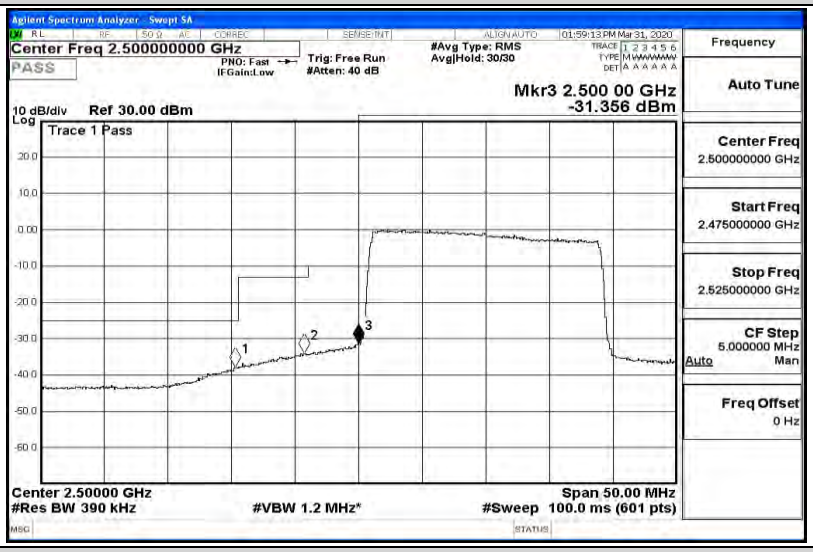
Band7-20MHz-QPSK-20850-100RB#0



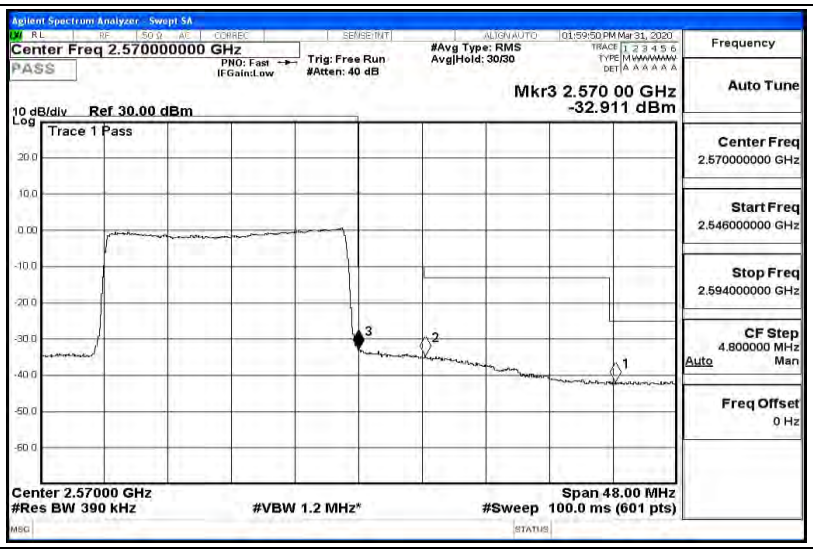
Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0



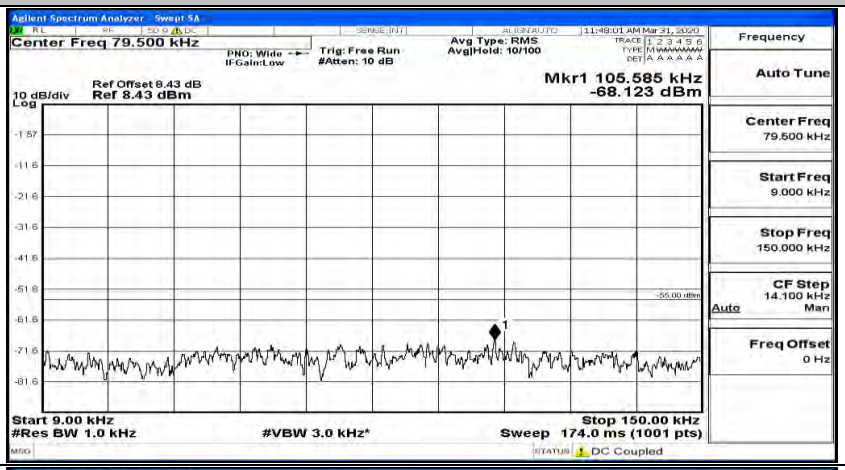
Band7-20MHz-16QAM-21350-100RB#0

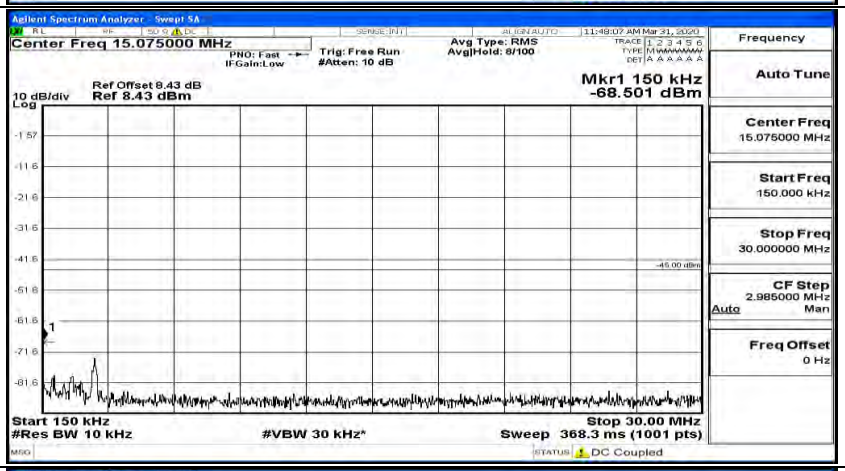

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.570000000 GHz
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 30/30
01:59:50 PM Mar 31, 2020
Mkr3 2.570 00 GHz
-32.911 dBm
10 dB/div Ref 30.00 dBm
Log
Trace 1 Pass
Center 2.57000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz*
Span 48.00 MHz
#Sweep 100.0 ms (601 pts)
Frequency
Auto Tune
Center Freq
2.570000000 GHz
Start Freq
2.546000000 GHz
Stop Freq
2.594000000 GHz
CF Step
4.800000 MHz
Auto
Man
Freq Offset
0 Hz

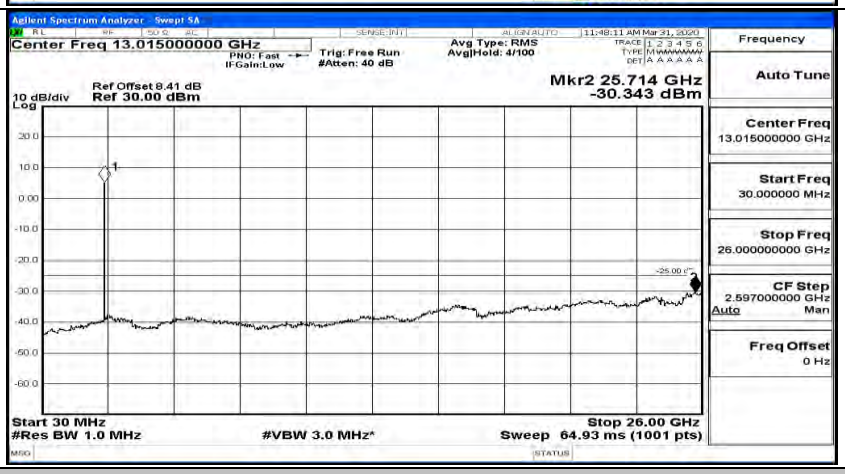
G.5 Conducted Spurious Emission

Channel Bandwidth: 5 MHz

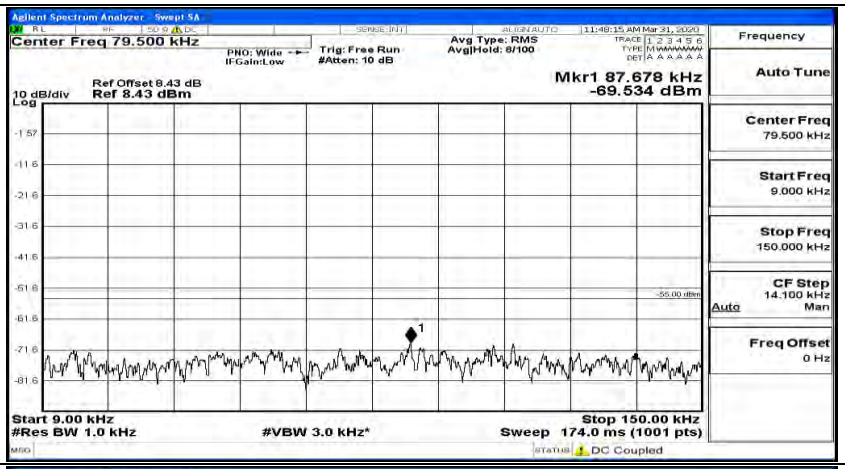
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

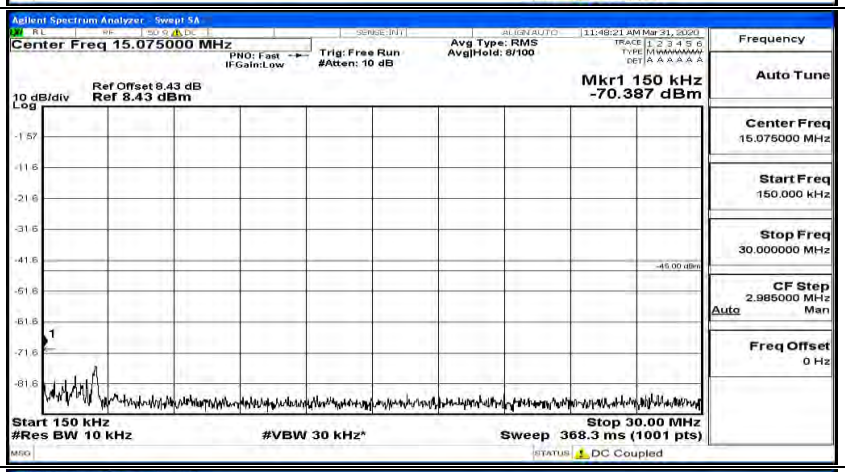


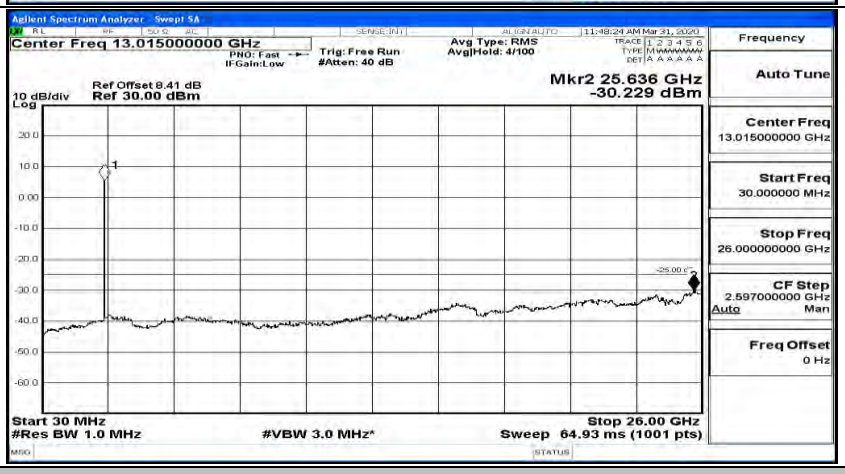




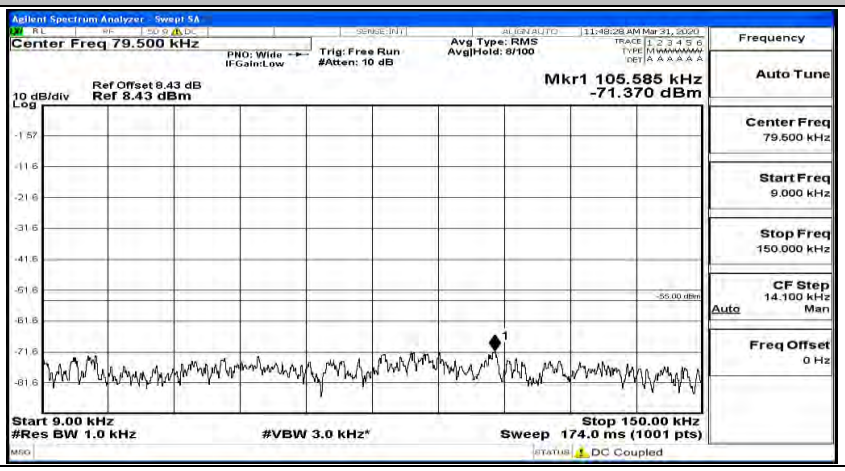
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

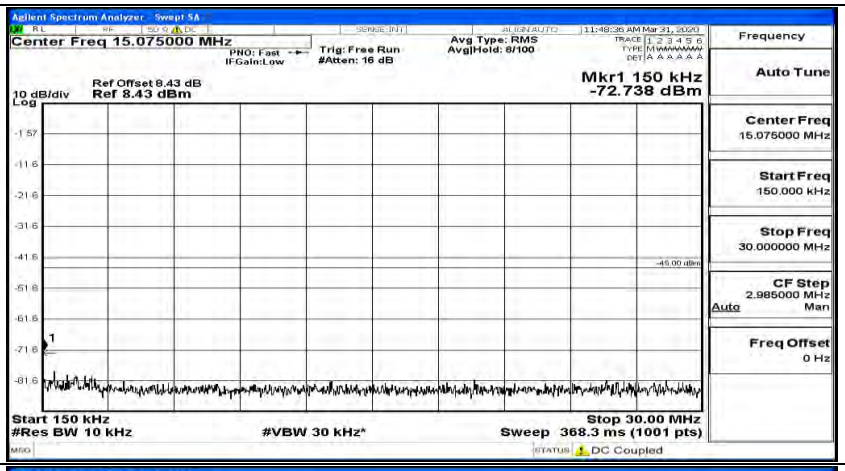


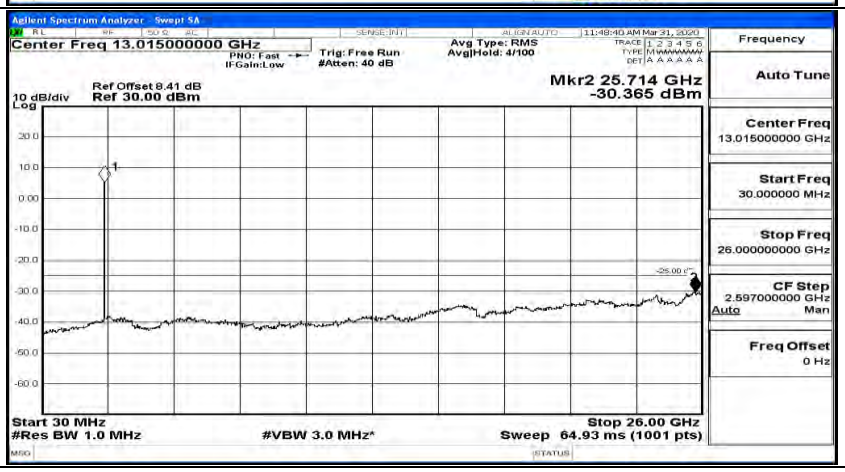




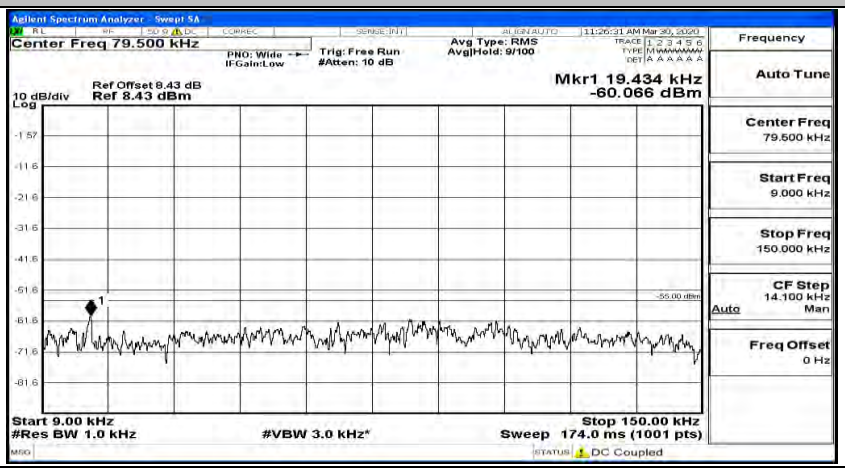
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

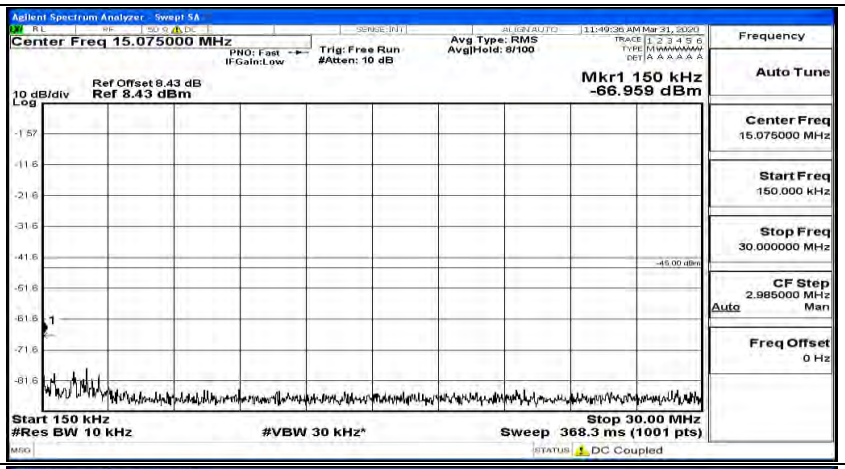


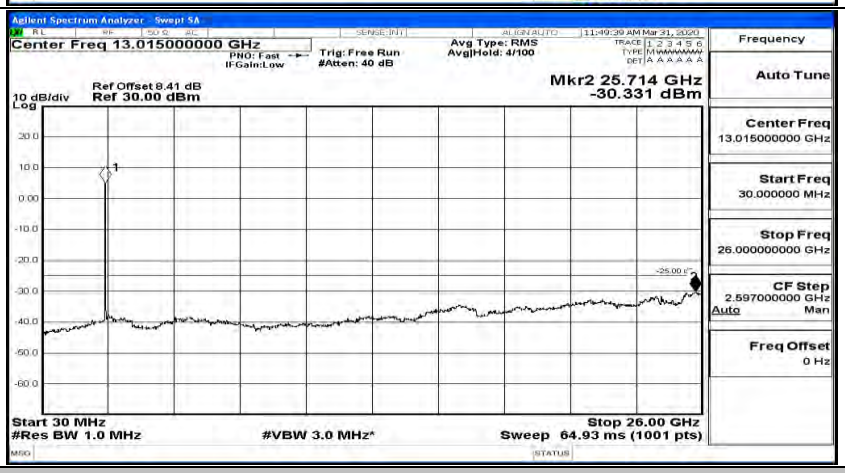




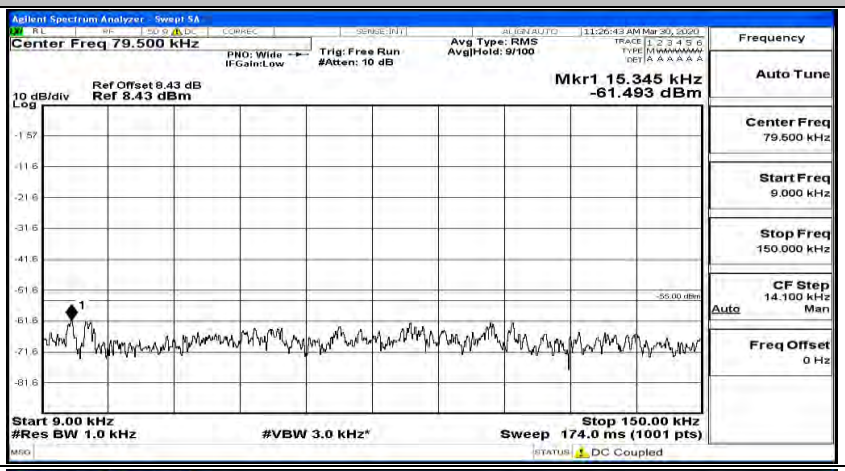
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

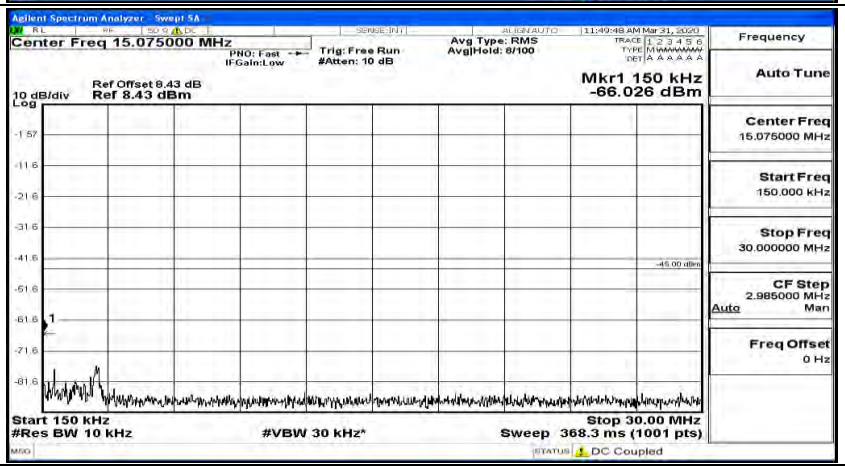


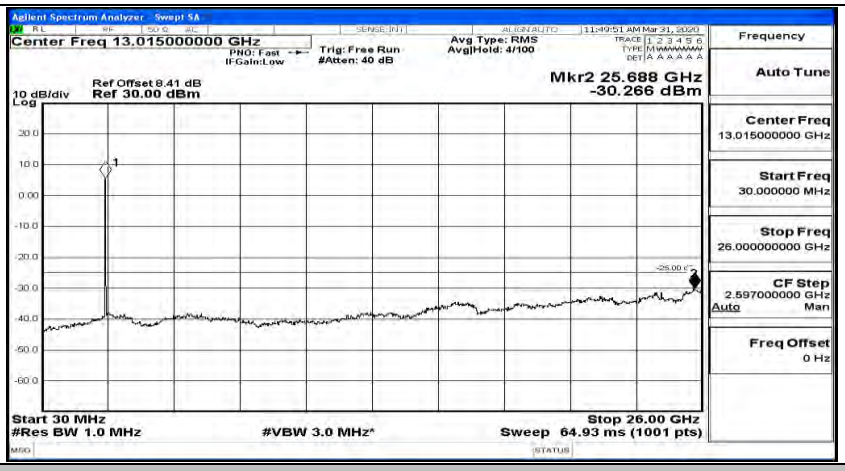




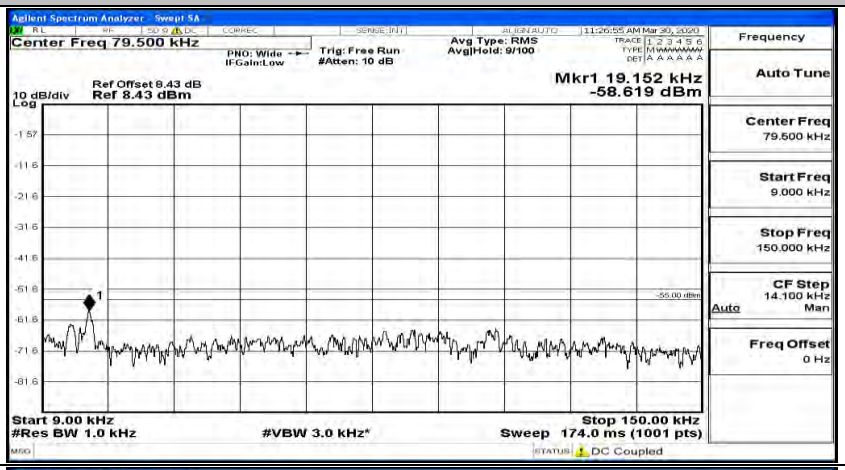
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

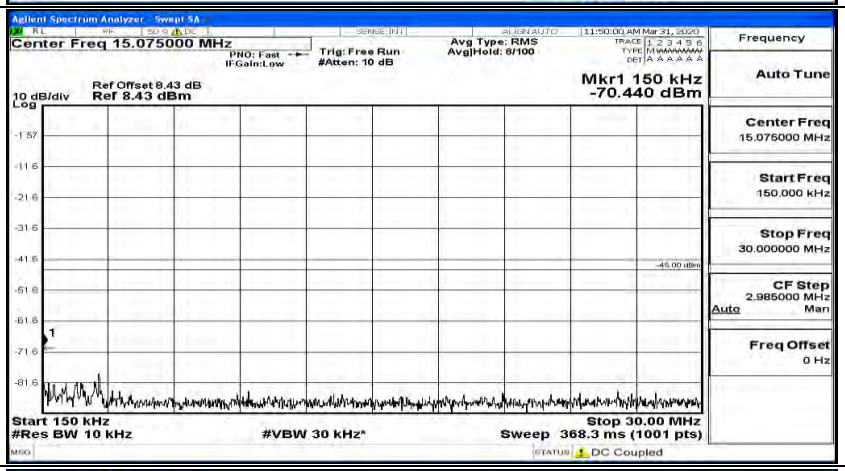




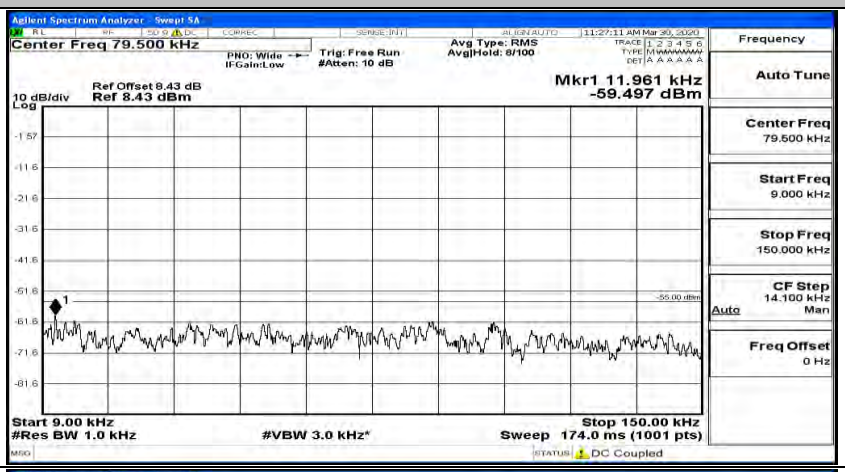


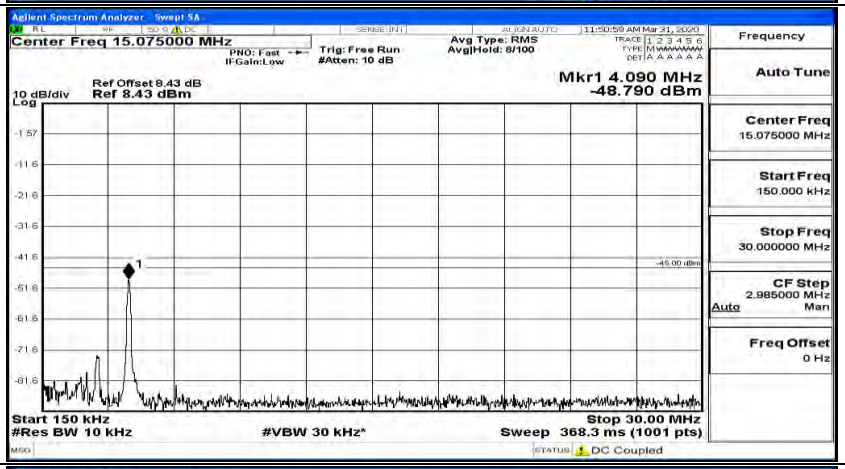
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

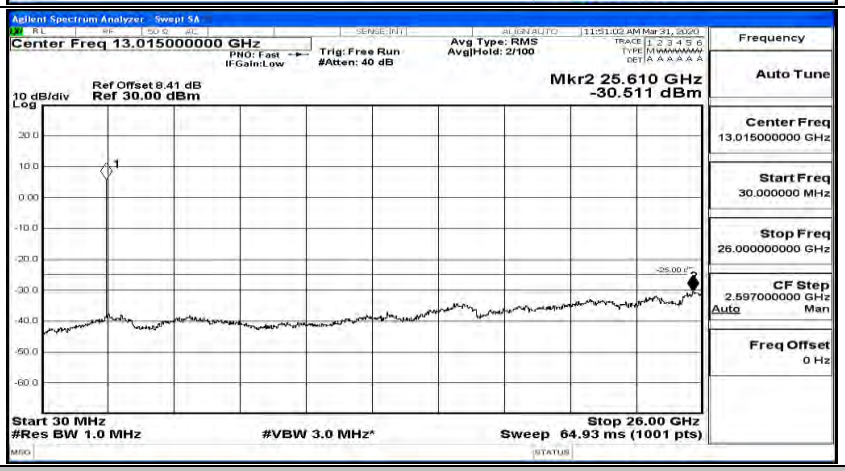




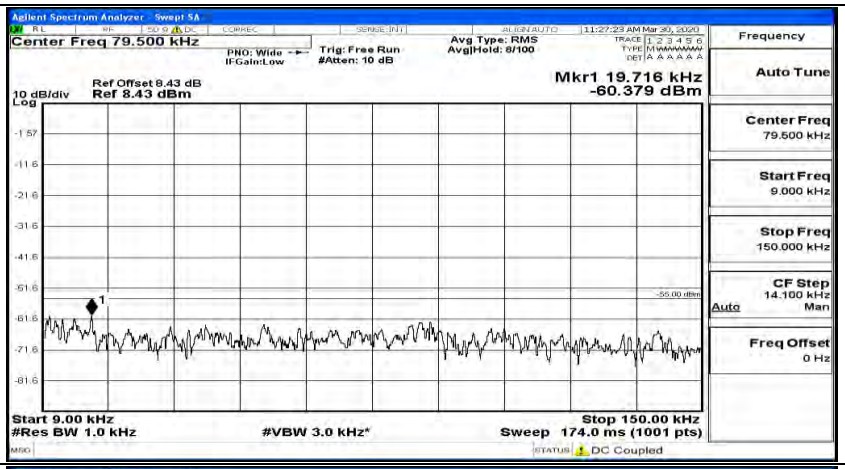
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

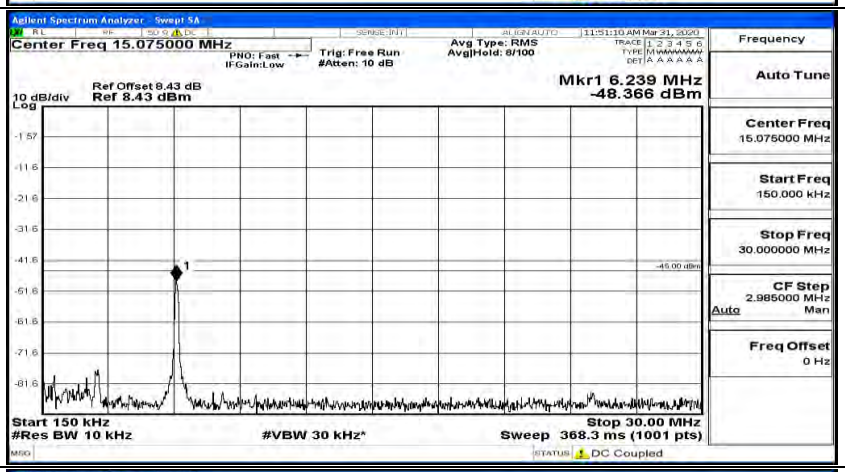


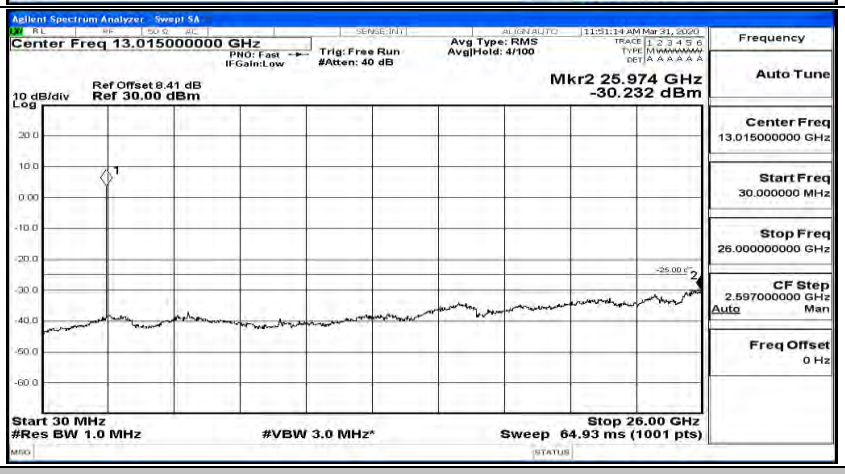




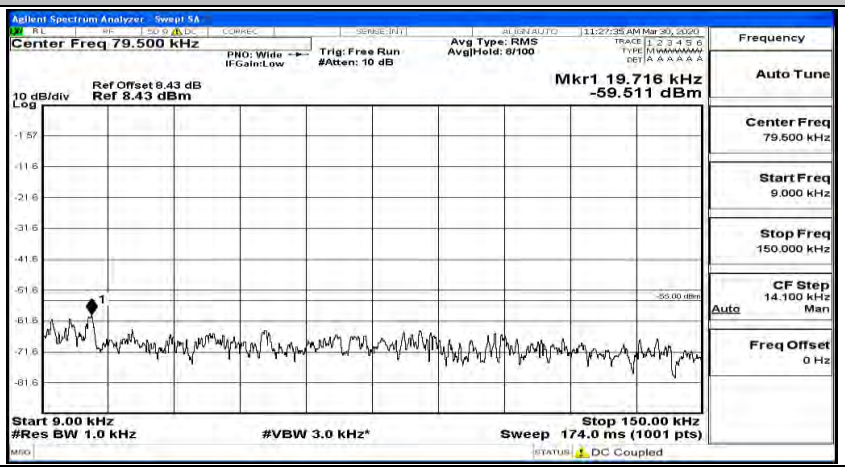
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

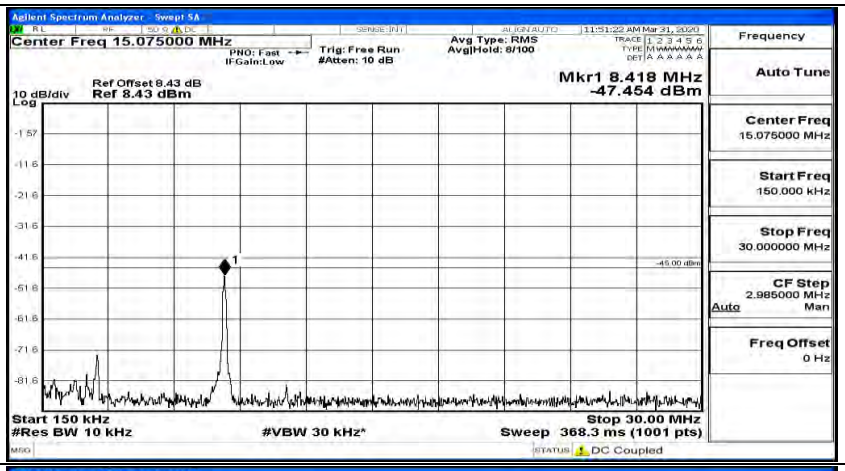




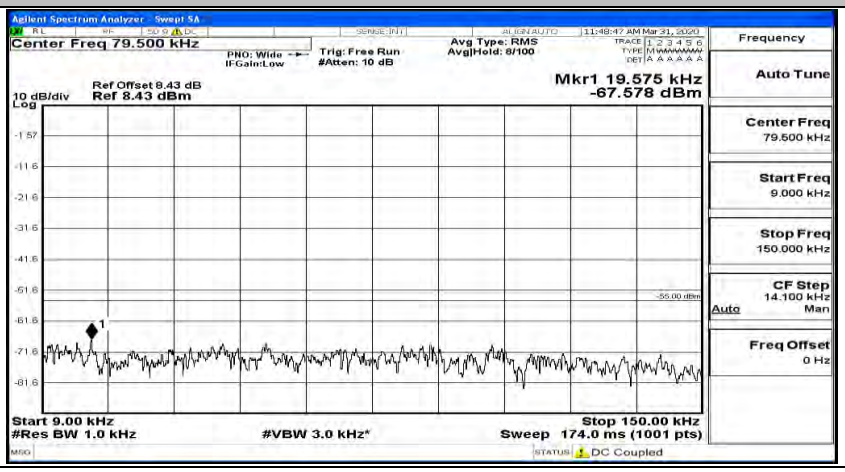


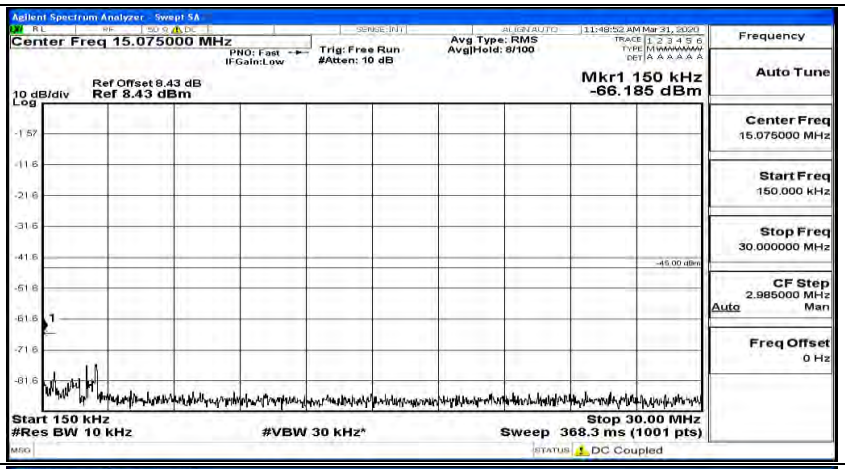
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

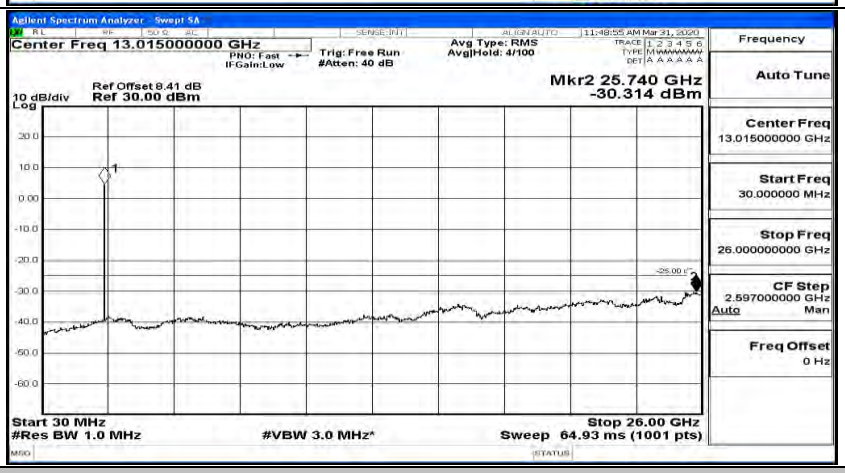




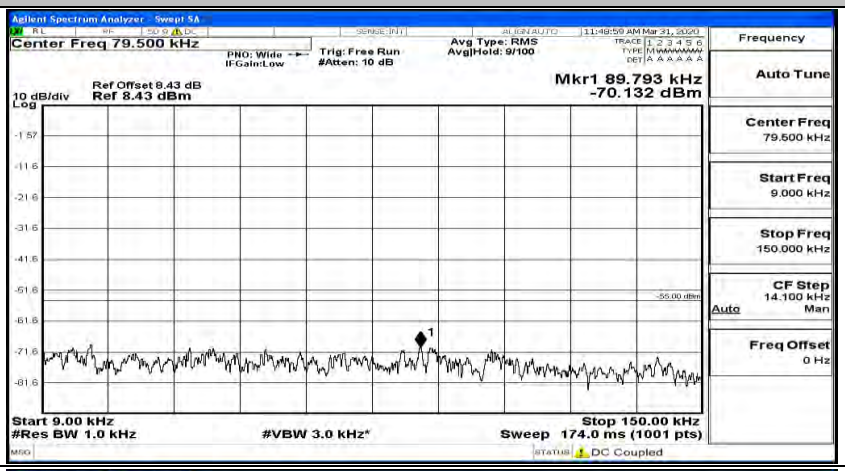
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

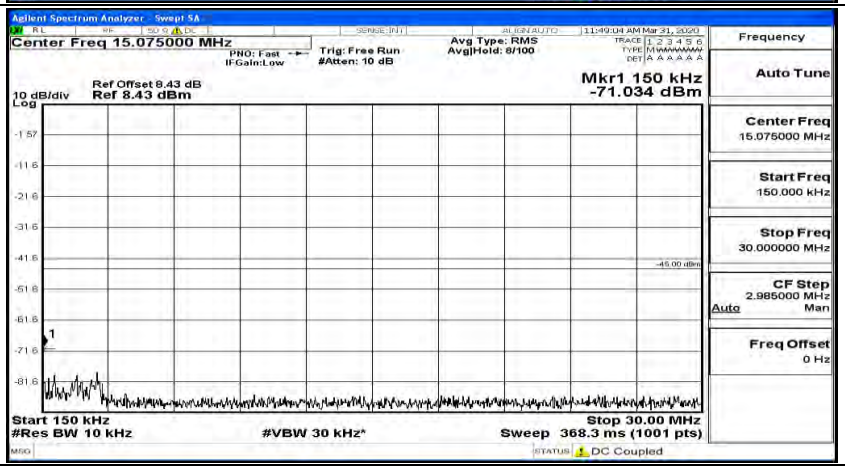




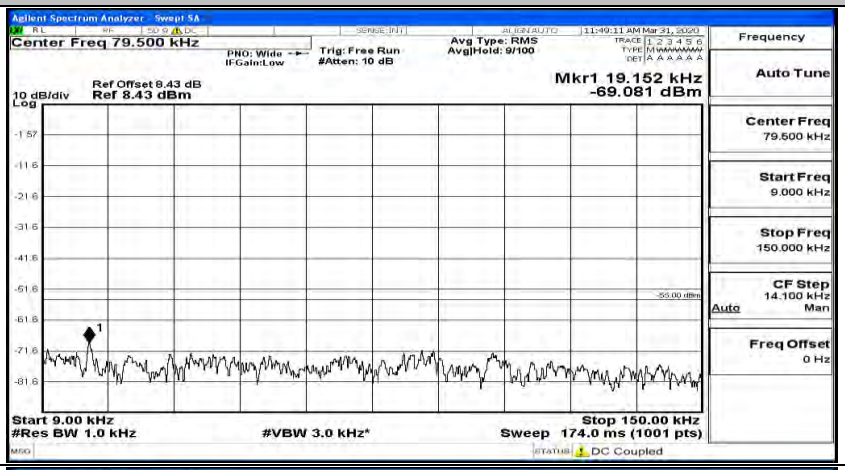


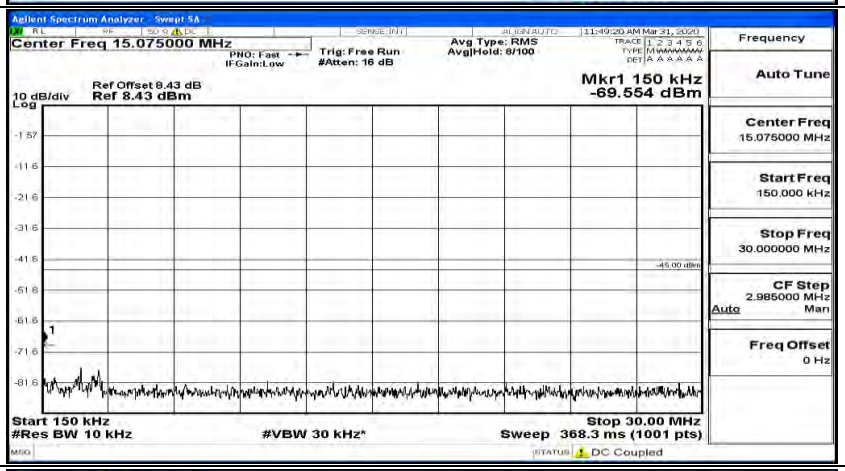
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

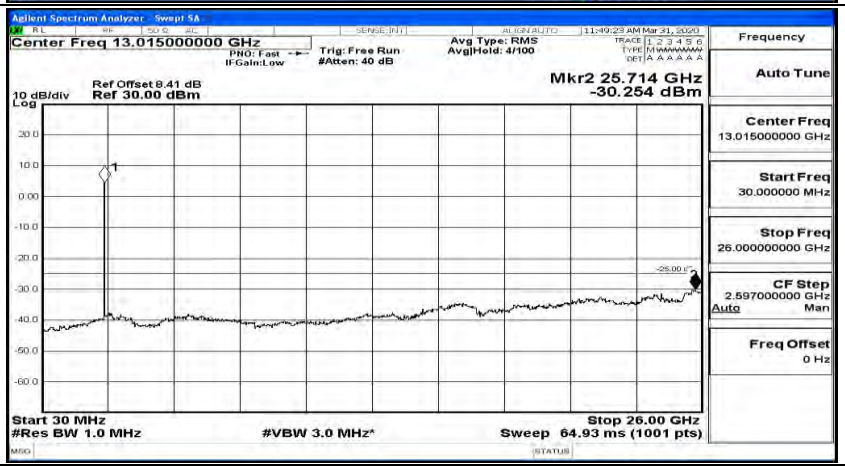




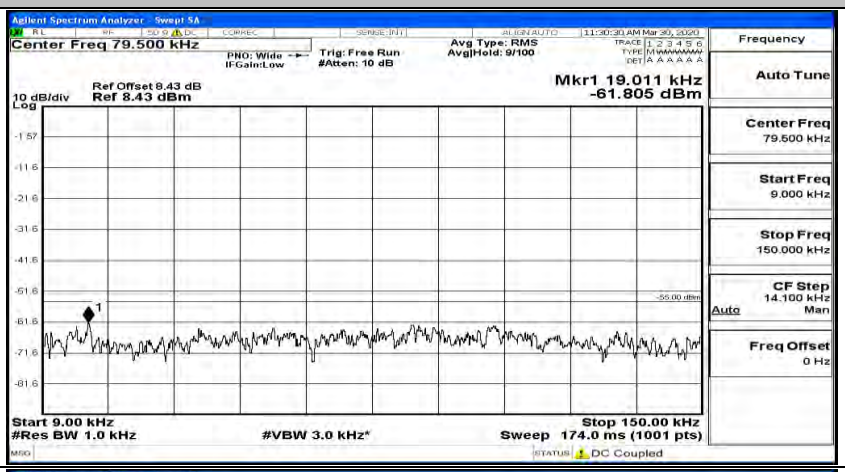
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

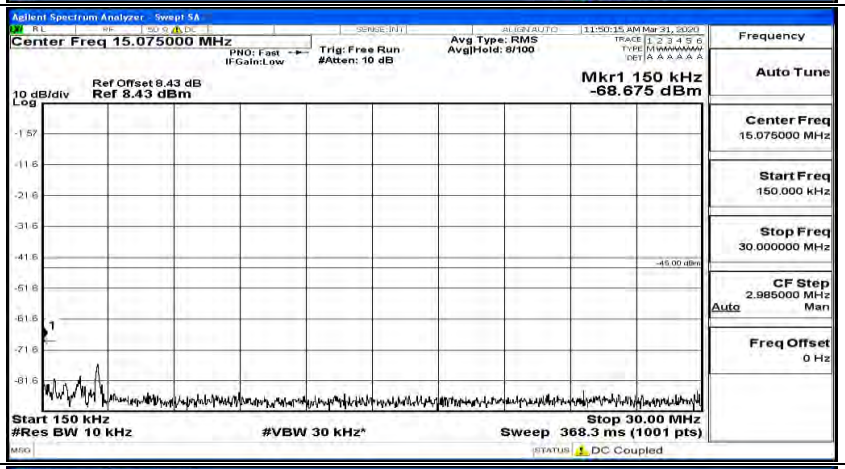




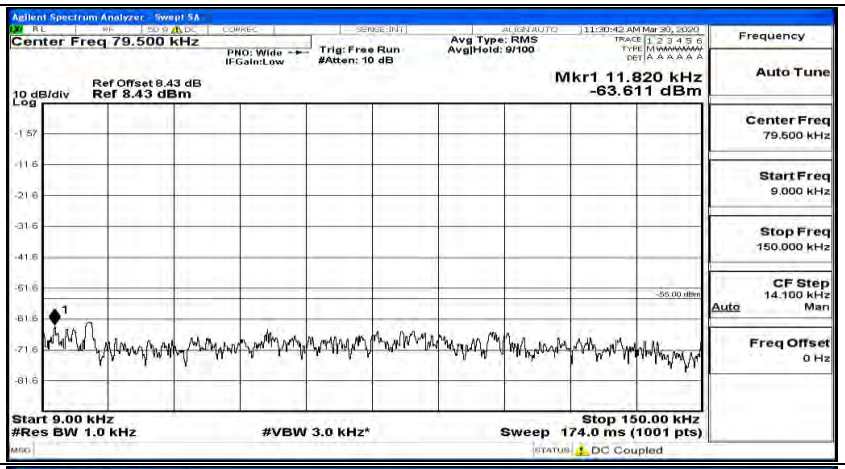


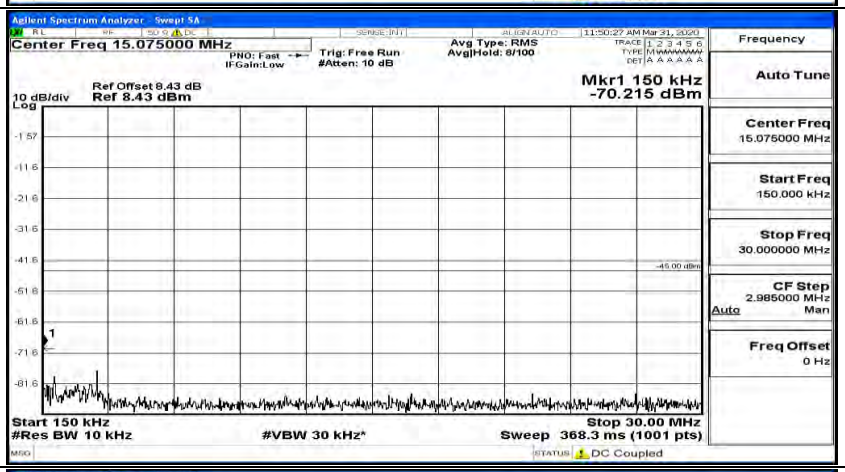
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

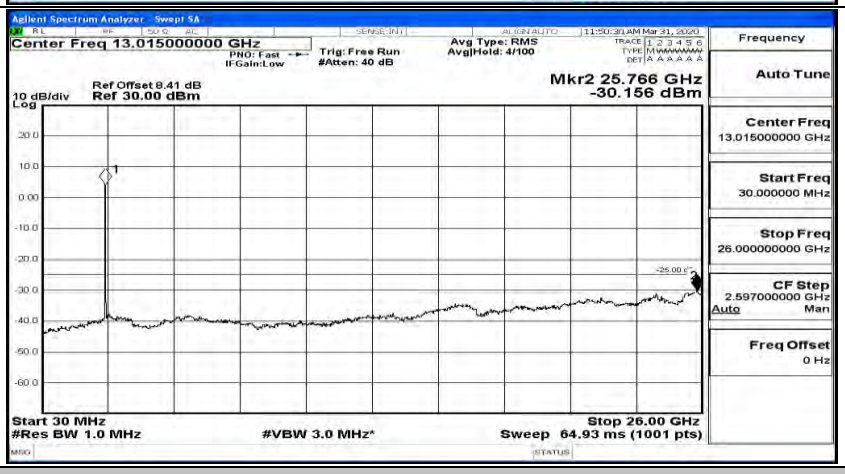




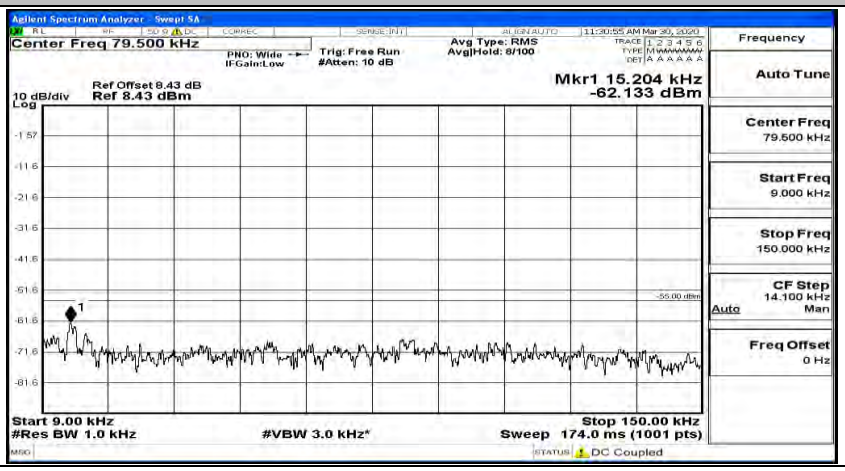
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

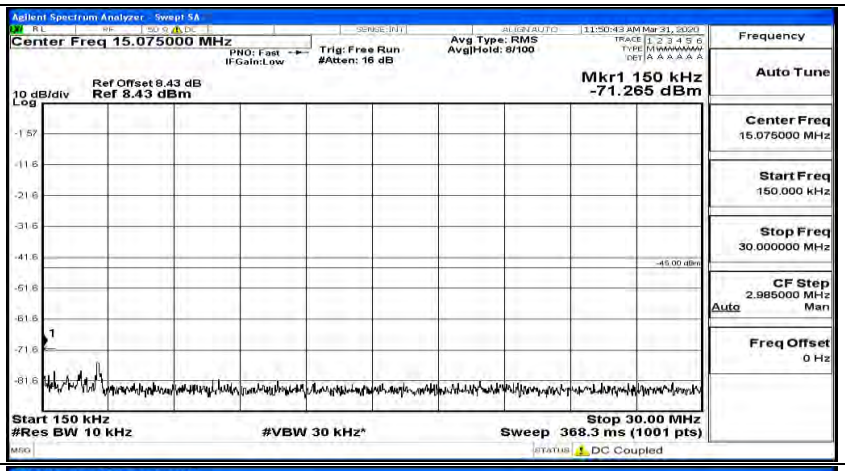




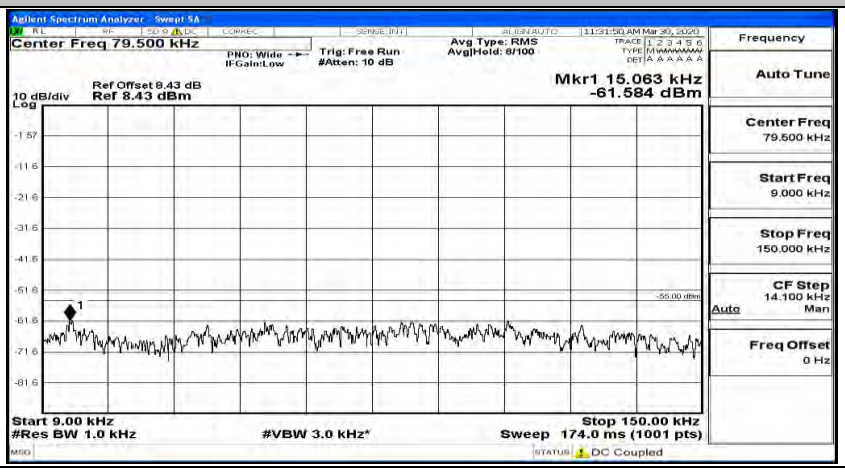


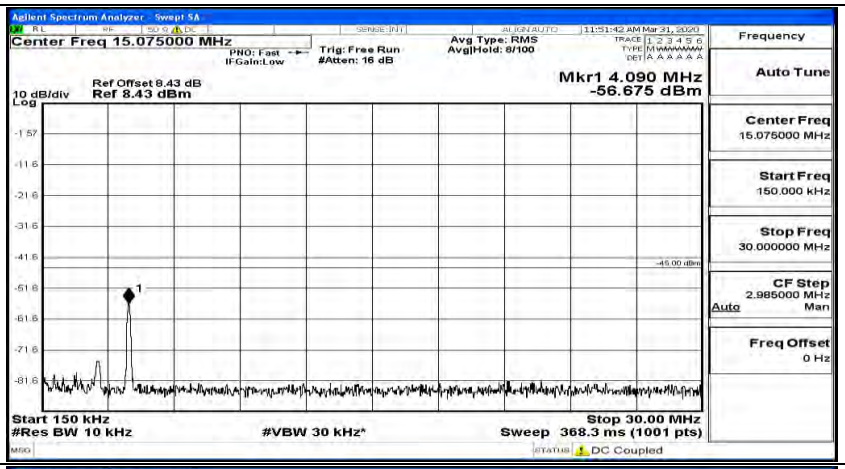
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

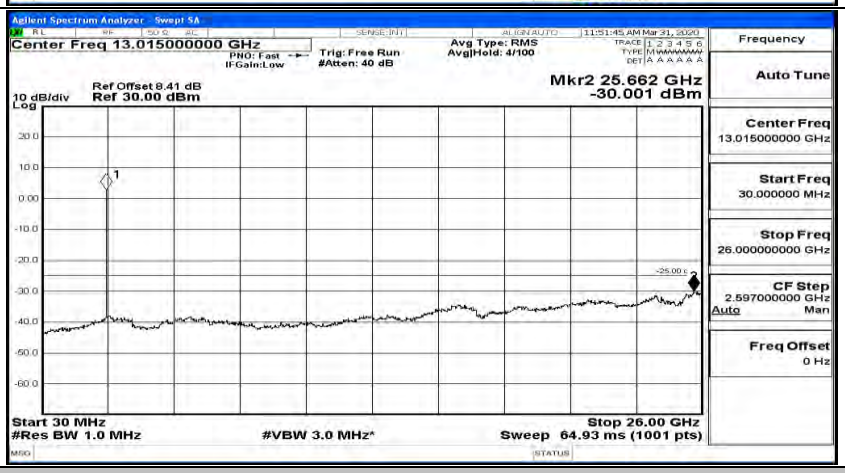




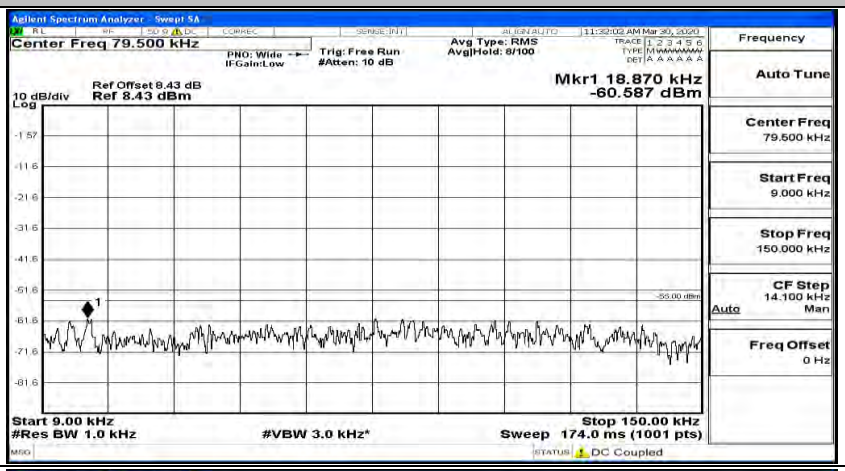
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

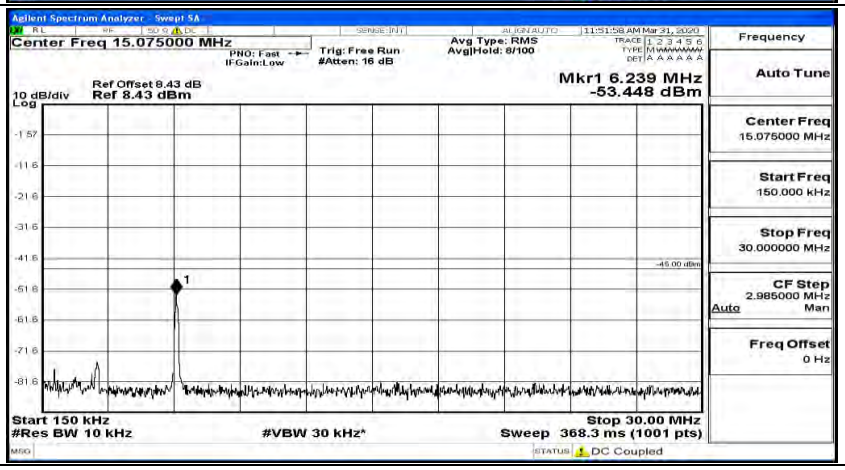




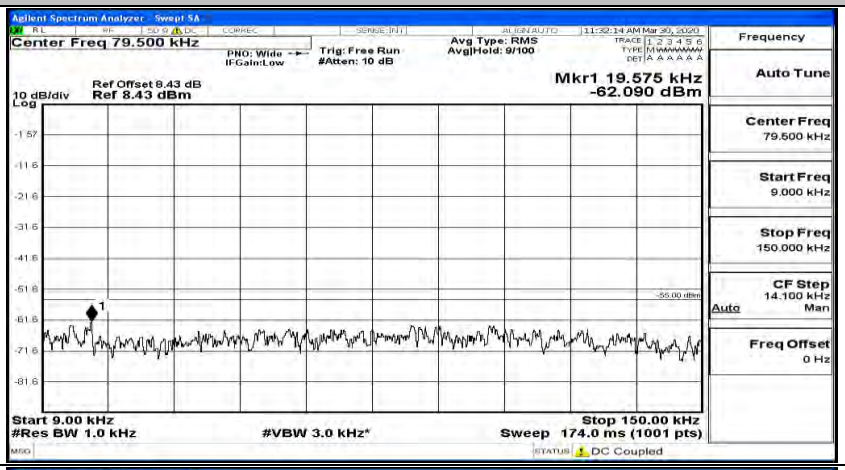


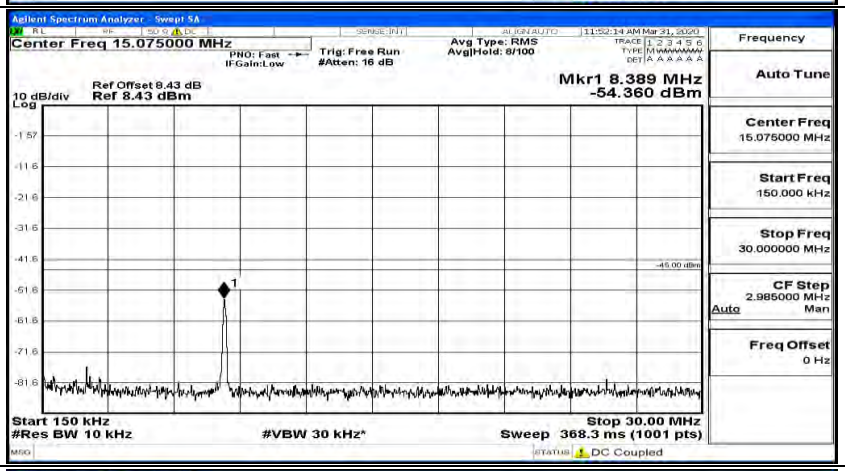
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

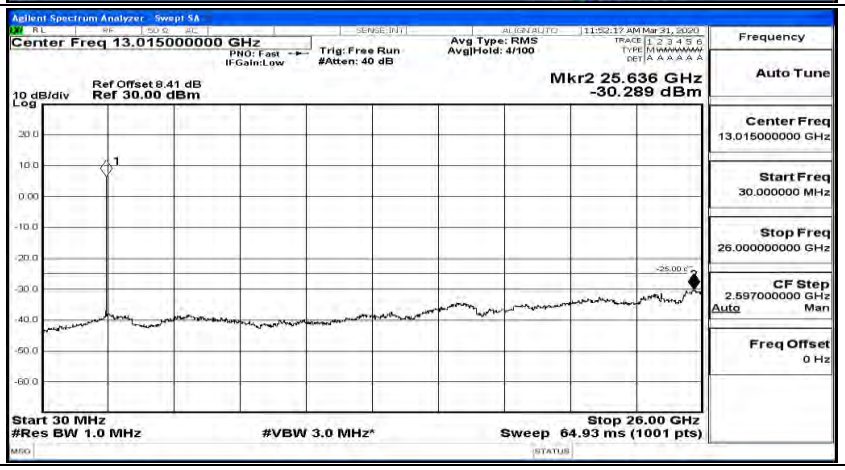




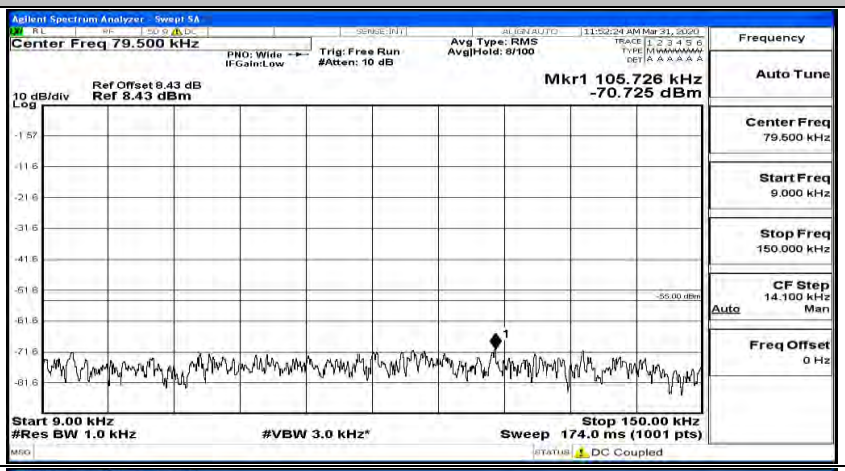
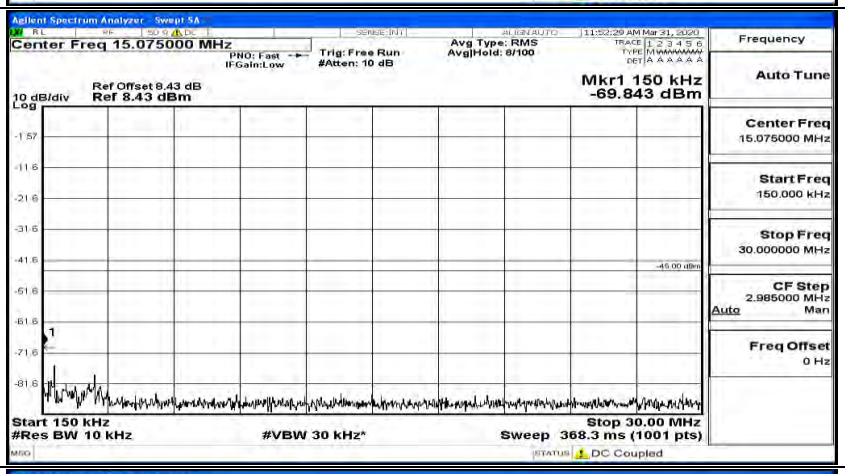
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

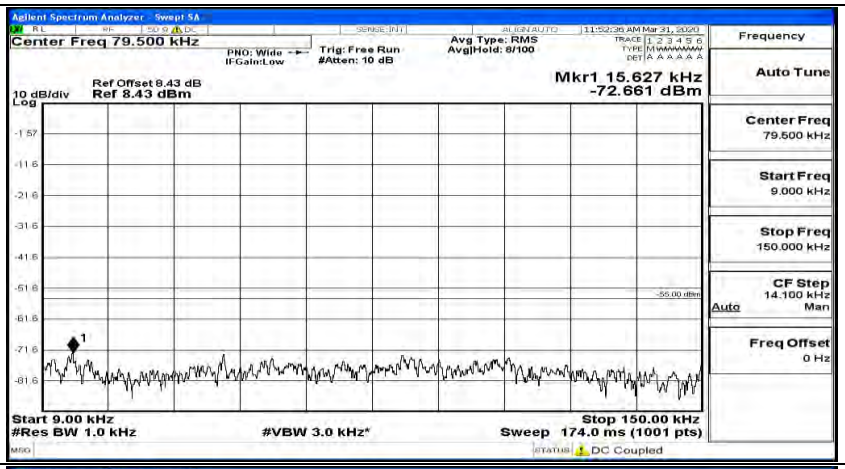


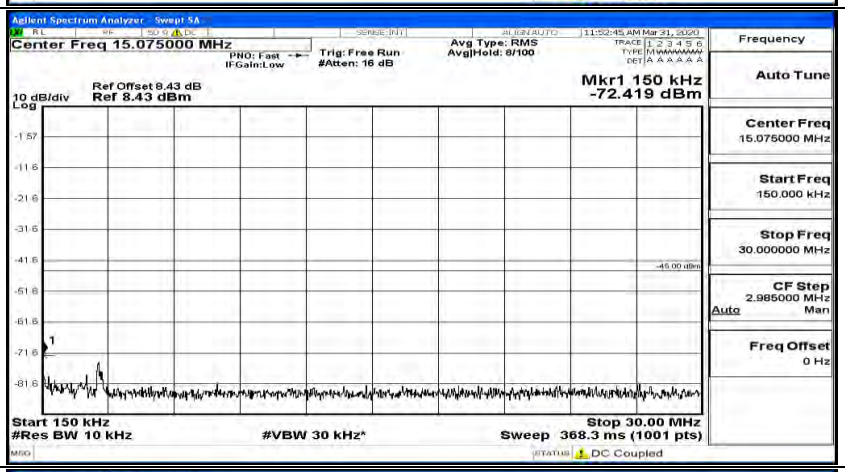


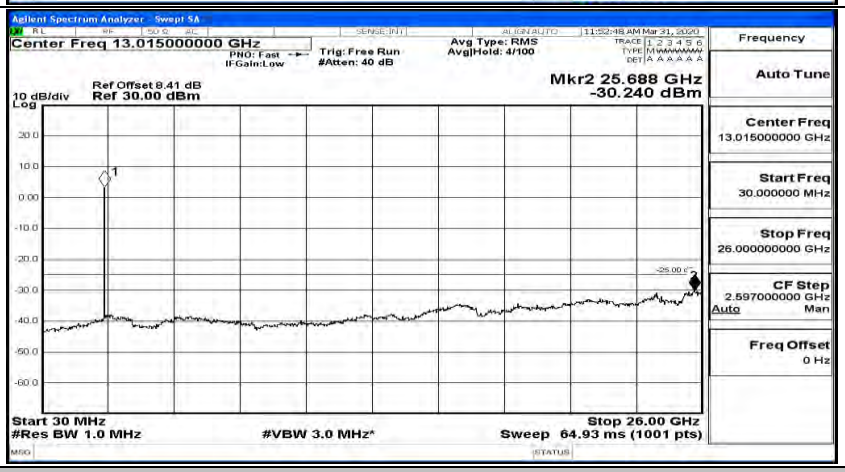


Channel Bandwidth: 10 MHz

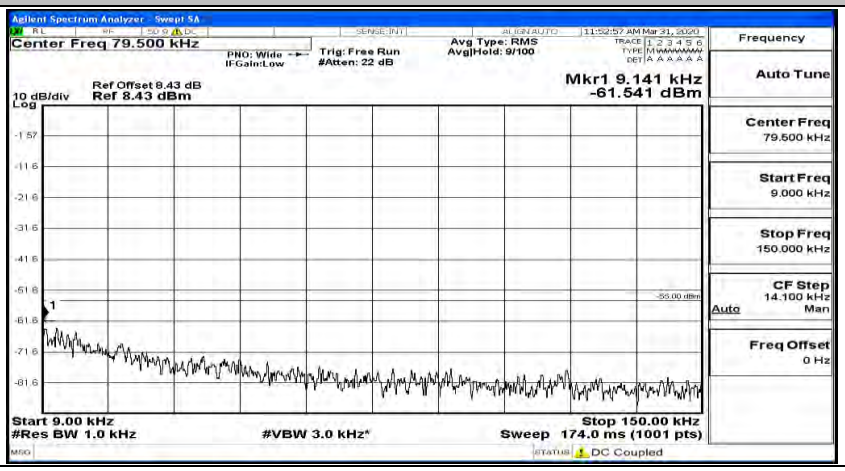
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0


Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

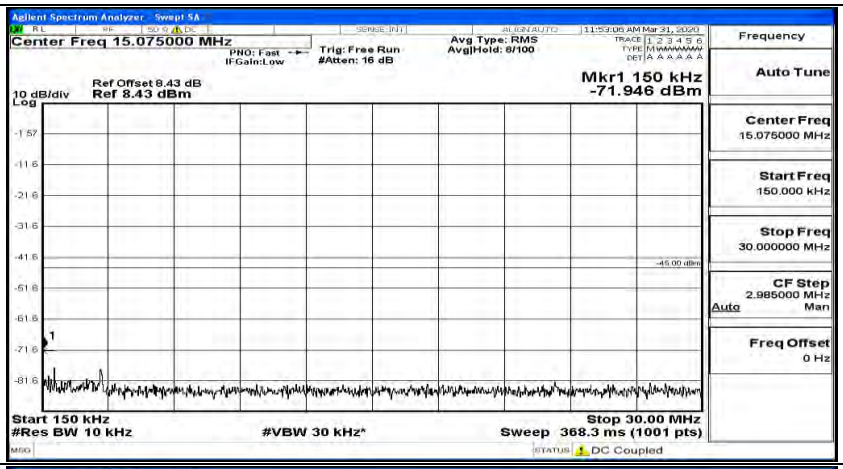




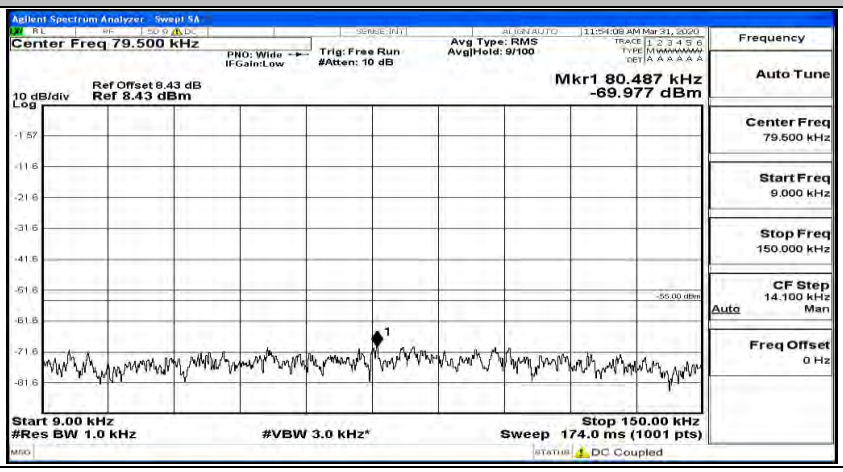


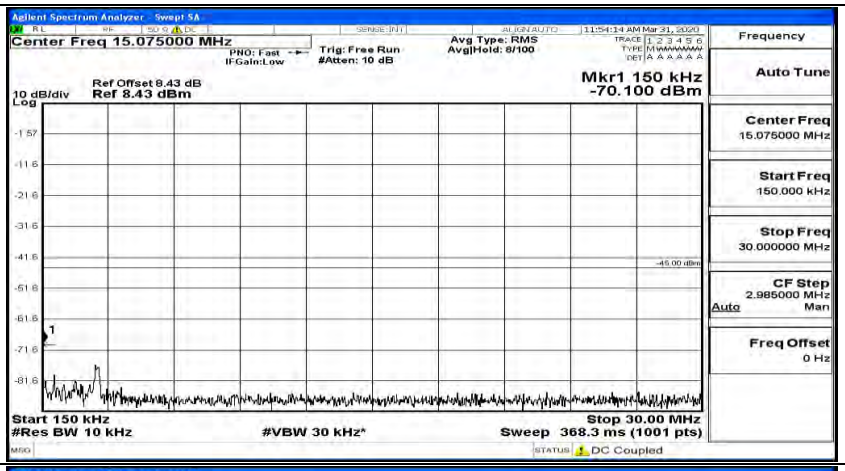
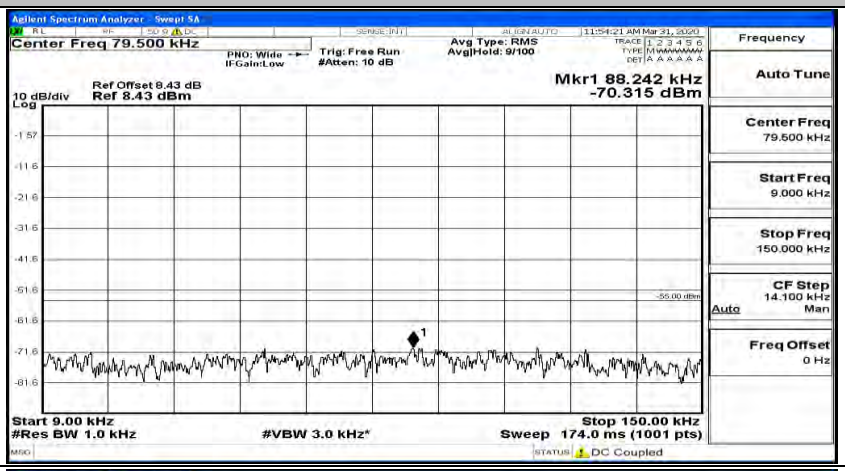
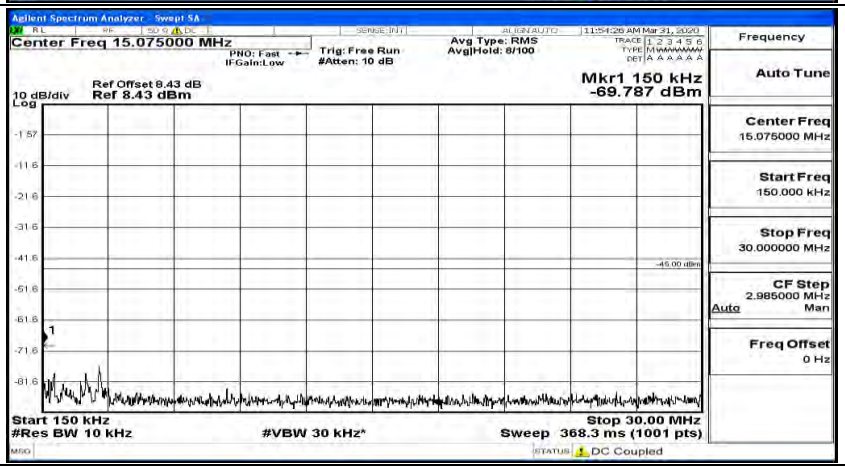
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49





Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

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