

Appendix H: Test Data for E-UTRA Band 71

Product Name: CellCOM Prime 7 4G

Trade Mark: AES

Test Model: PRIME7-PX-IMPX-PED/4GA

Environmental Conditions

Temperature:	21.1 °C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

H.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.84	23.17	PASS
		1	12	23.68	22.93	PASS
		1	24	23.53	23.42	PASS
		12	0	23.95	23.75	PASS
		12	6	23.61	23.61	PASS
		12	13	23.78	23.49	PASS
		25	0	23.28	22.89	PASS
	MCH	1	0	23.97	23.39	PASS
		1	12	23.78	23.22	PASS
		1	24	23.59	23.58	PASS
		12	0	23.19	23.00	PASS
		12	6	23.89	23.06	PASS
		12	13	23.97	23.44	PASS
		25	0	23.40	23.25	PASS
	HCH	1	0	23.07	22.23	PASS
		1	12	23.35	22.57	PASS
		1	24	23.79	23.81	PASS
		12	0	23.51	23.39	PASS
		12	6	23.81	23.78	PASS
		12	13	23.87	23.87	PASS
		25	0	23.75	23.61	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.13	22.94	PASS
		1	24	23.57	23.48	PASS
		1	49	23.01	22.95	PASS
		25	0	23.50	22.69	PASS
		25	12	23.36	23.00	PASS
		25	25	23.31	23.24	PASS
		50	0	23.99	23.79	PASS
	MCH	1	0	23.93	23.15	PASS
		1	24	23.09	23.11	PASS
		1	49	23.12	22.43	PASS
		25	0	23.94	23.37	PASS
		25	12	23.64	23.39	PASS
		25	25	23.83	23.12	PASS
		50	0	23.64	23.43	PASS
	HCH	1	0	23.44	22.86	PASS
		1	24	23.05	22.32	PASS
		1	49	23.37	23.11	PASS
		25	0	23.86	23.18	PASS
		25	12	23.38	22.68	PASS
		25	25	23.88	23.10	PASS
		50	0	23.11	22.49	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.89	23.76	PASS
		1	37	23.83	23.69	PASS
		1	74	23.56	23.07	PASS
		37	0	23.65	23.03	PASS
		37	18	23.09	22.49	PASS
		37	38	23.56	23.61	PASS
		75	0	23.73	23.73	PASS
	MCH	1	0	23.77	23.03	PASS
		1	37	23.55	22.93	PASS
		1	74	24.07	23.73	PASS
		37	0	23.59	22.85	PASS
		37	18	23.34	22.81	PASS
		37	38	23.26	22.40	PASS
		75	0	23.67	22.85	PASS
	HCH	1	0	23.32	22.50	PASS
		1	37	23.81	23.01	PASS
		1	74	23.18	22.87	PASS
		37	0	23.76	23.46	PASS
		37	18	23.76	23.25	PASS
		37	38	23.98	23.78	PASS
		75	0	23.49	22.98	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.41	22.70	PASS
		1	49	23.26	23.09	PASS
		1	99	23.58	22.84	PASS
		50	0	23.26	23.19	PASS
		50	25	23.70	22.84	PASS
		50	50	23.84	23.77	PASS
		100	0	23.91	23.28	PASS
	MCH	1	0	23.75	23.12	PASS
		1	49	23.29	23.01	PASS
		1	99	23.07	23.09	PASS
		50	0	23.31	22.69	PASS
		50	25	22.99	22.17	PASS
		50	50	23.22	22.49	PASS
		100	0	23.99	23.41	PASS
	HCH	1	0	23.50	22.75	PASS
		1	49	23.57	23.35	PASS
		1	99	23.42	22.71	PASS
		50	0	23.88	23.29	PASS
		50	25	23.07	22.48	PASS
		50	50	23.17	22.99	PASS
		100	0	23.74	23.16	PASS

I.2 Peak-to-Average Ratio

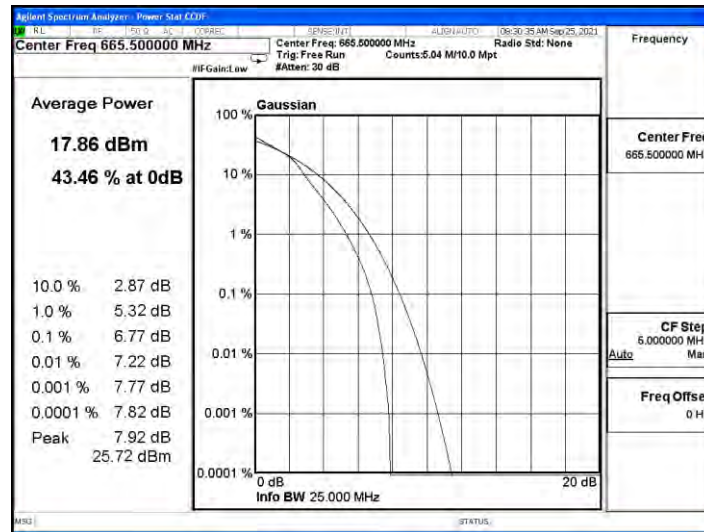
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.32	<13	PASS
	MCH	5.25	<13	PASS
	HCH	5.22	<13	PASS
16QAM	LCH	5.27	<13	PASS
	MCH	5.20	<13	PASS
	HCH	5.28	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.26	<13	PASS
	MCH	5.24	<13	PASS
	HCH	5.26	<13	PASS
16QAM	LCH	5.28	<13	PASS
	MCH	5.23	<13	PASS
	HCH	5.42	<13	PASS

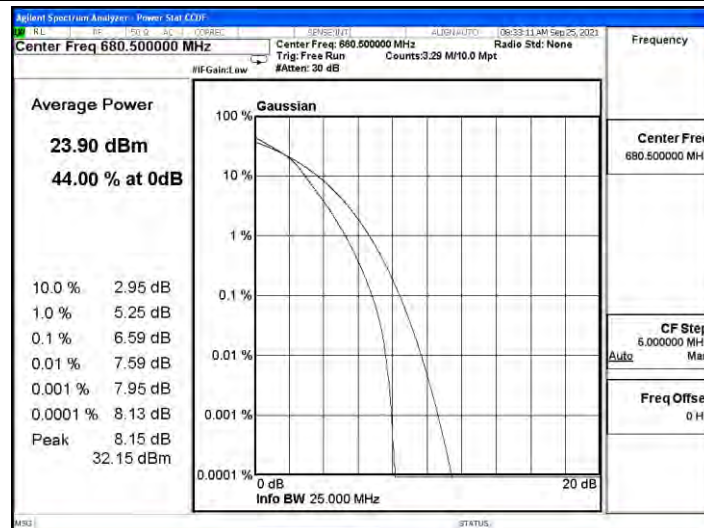
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.14	<13	PASS
	MCH	4.85	<13	PASS
	HCH	4.94	<13	PASS
16QAM	LCH	5.14	<13	PASS
	MCH	4.85	<13	PASS
	HCH	4.94	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	7.15	<13	PASS
	MCH	4.83	<13	PASS
	HCH	4.54	<13	PASS
16QAM	LCH	4.68	<13	PASS
	MCH	4.83	<13	PASS
	HCH	4.55	<13	PASS

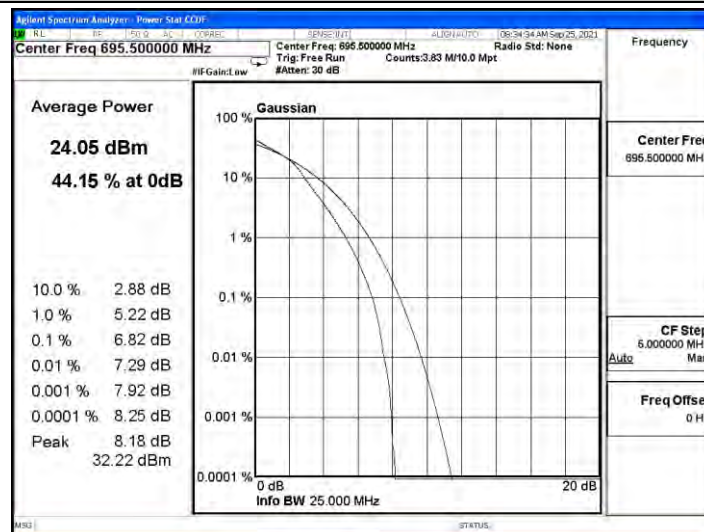
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



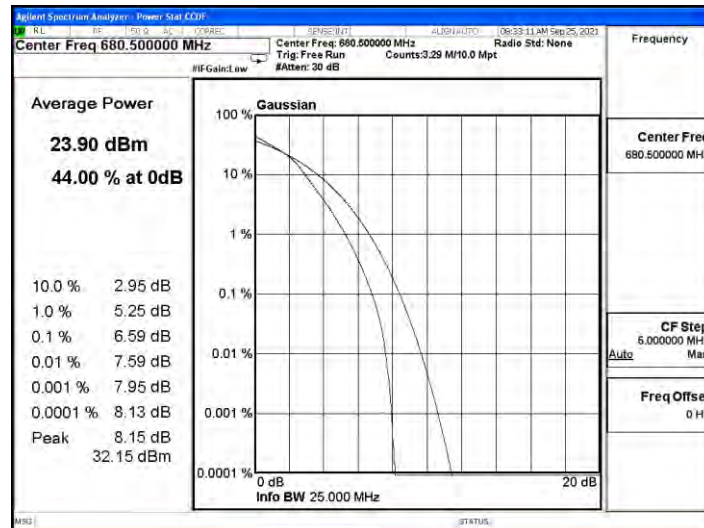
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



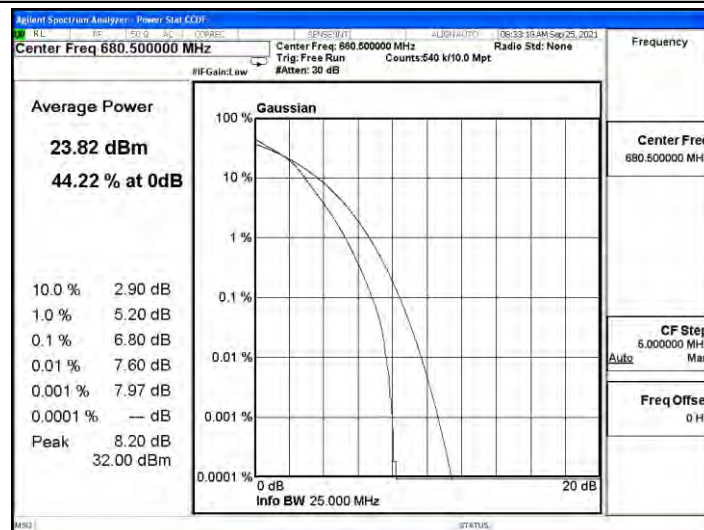
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



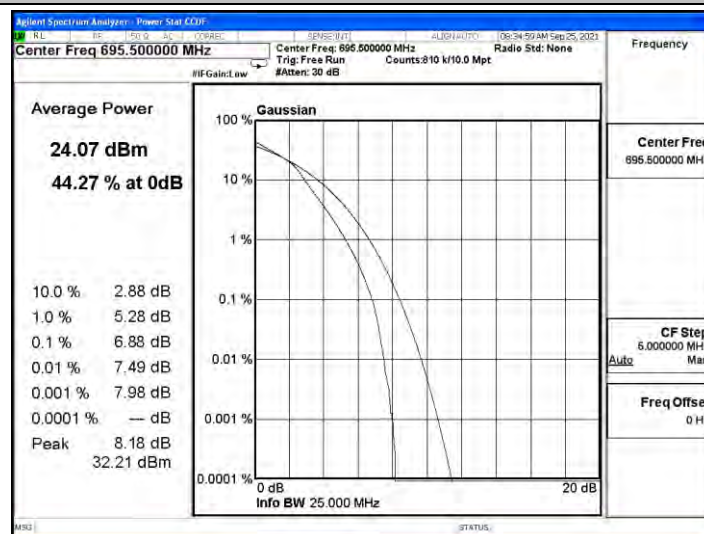
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



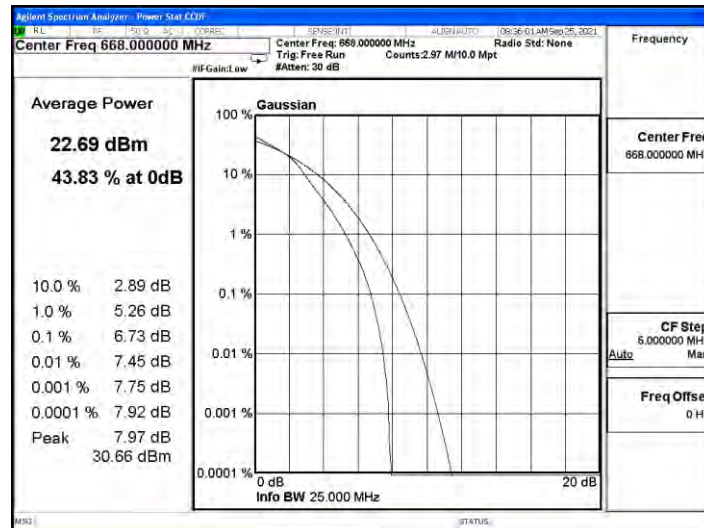
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



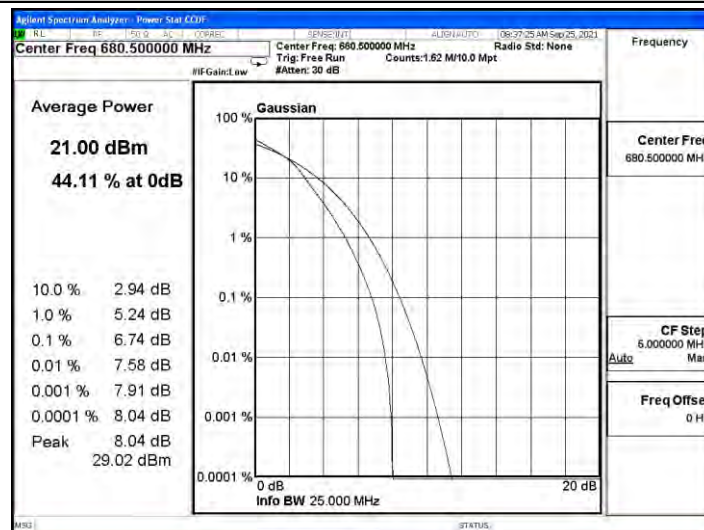
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



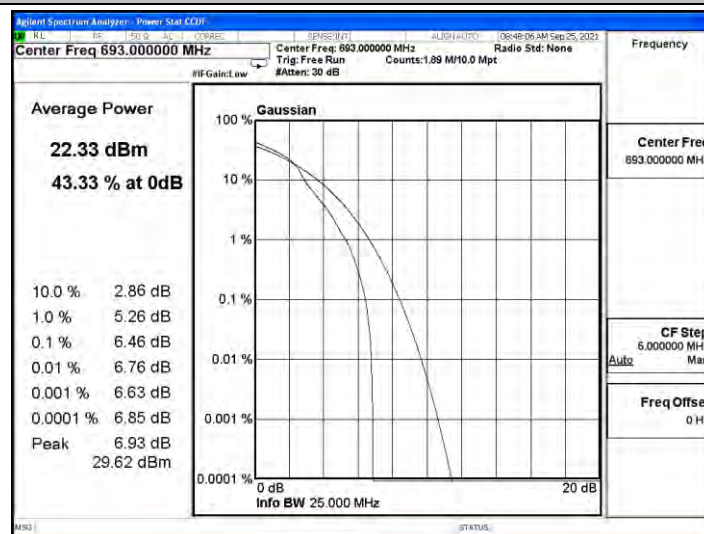
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



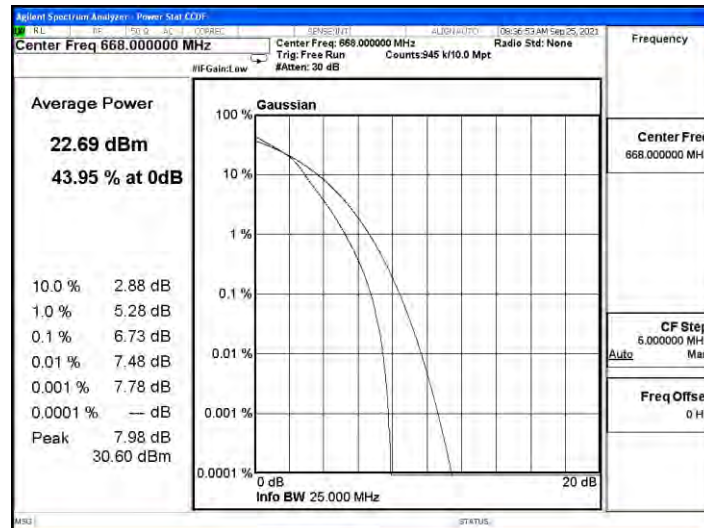
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



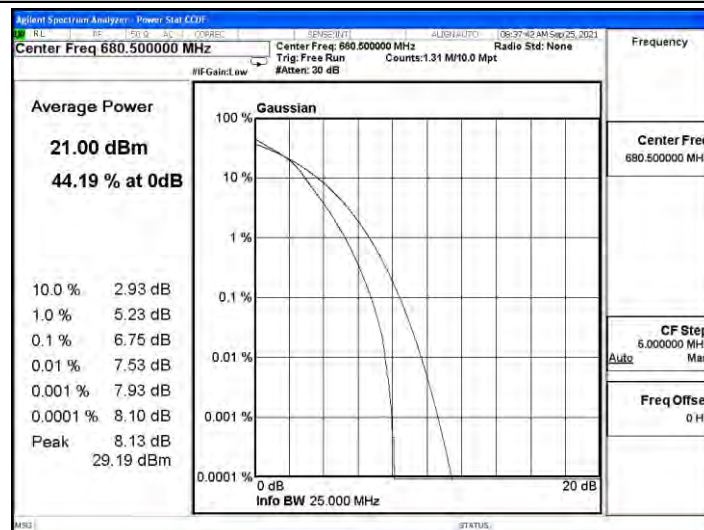
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



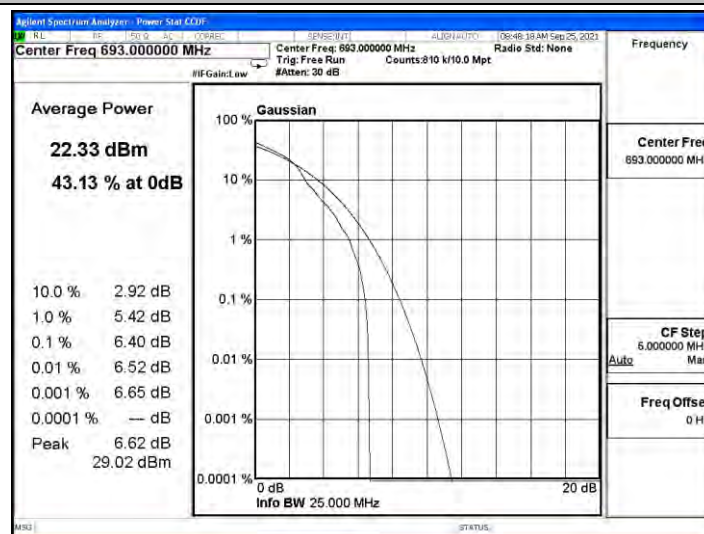
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



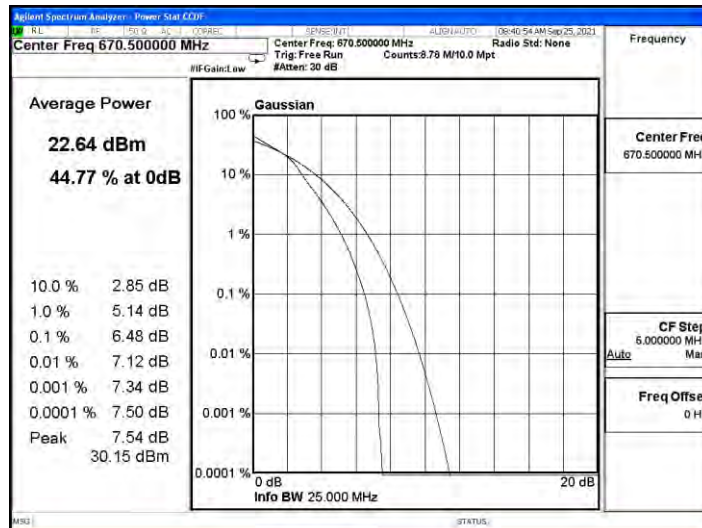
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



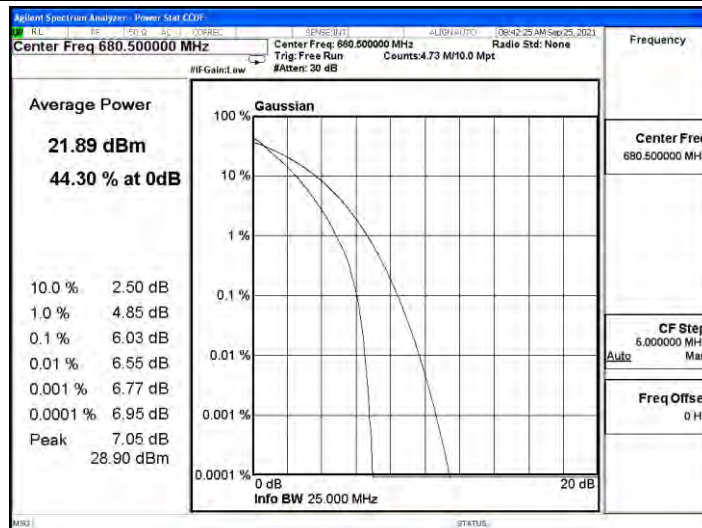
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



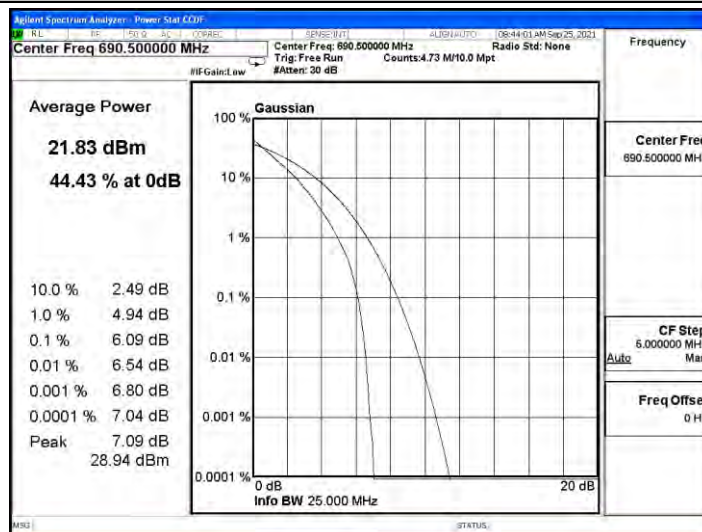
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



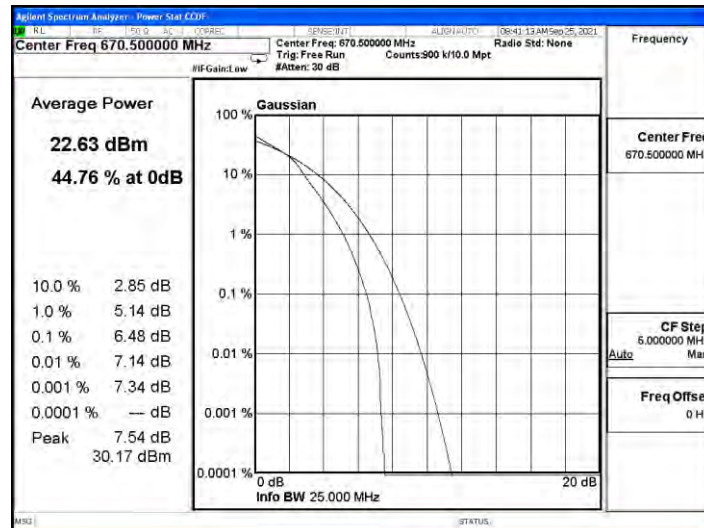
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



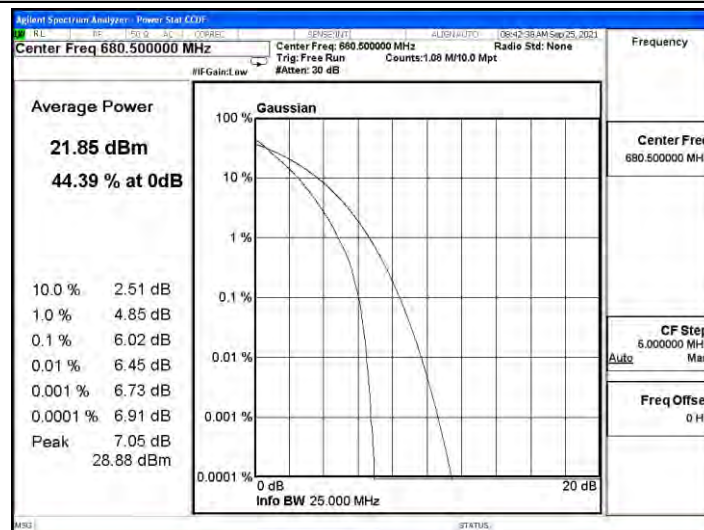
Peak-to-Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



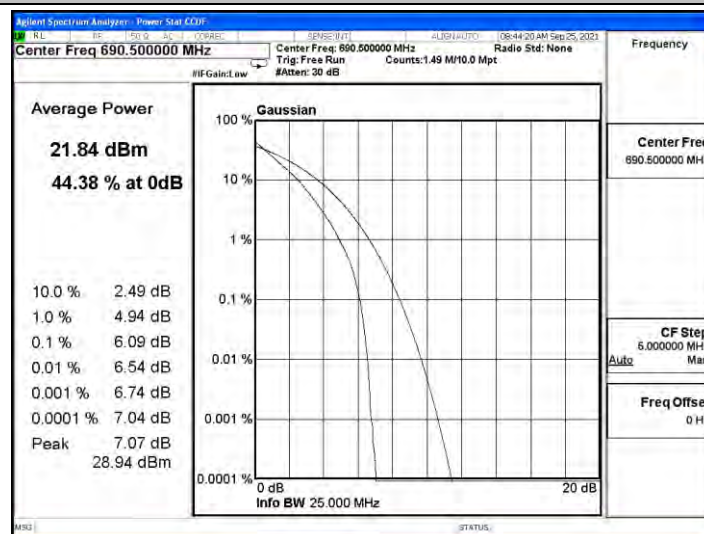
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



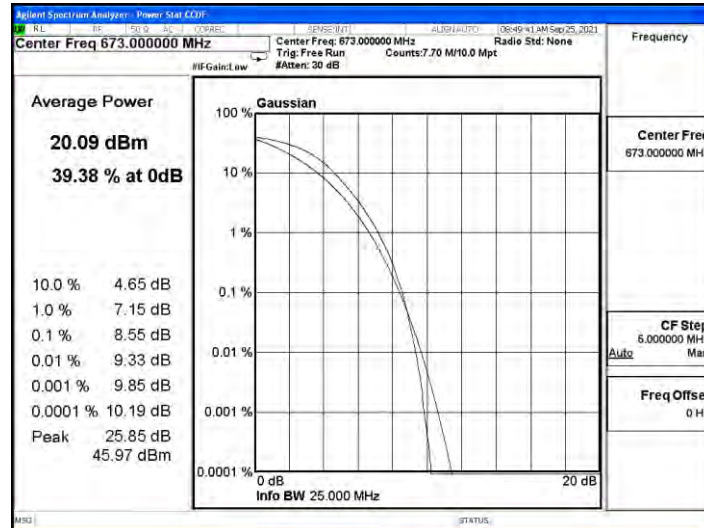
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



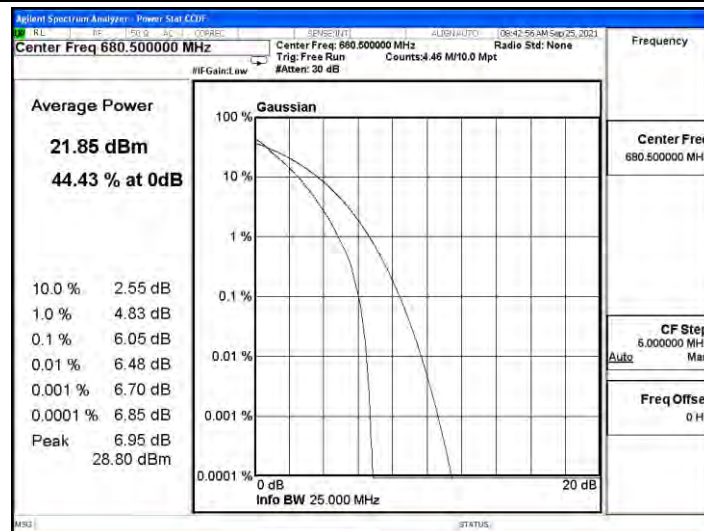
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



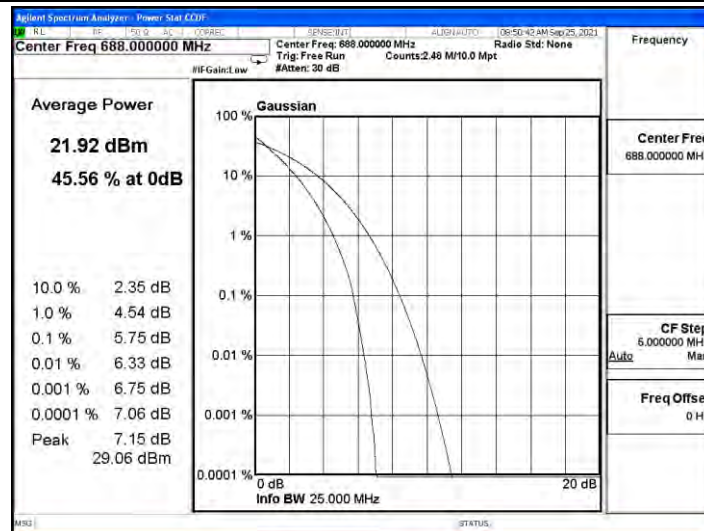
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



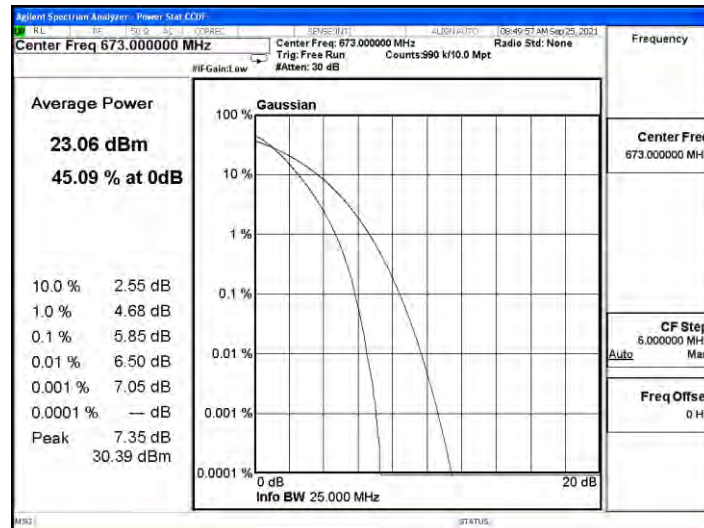
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



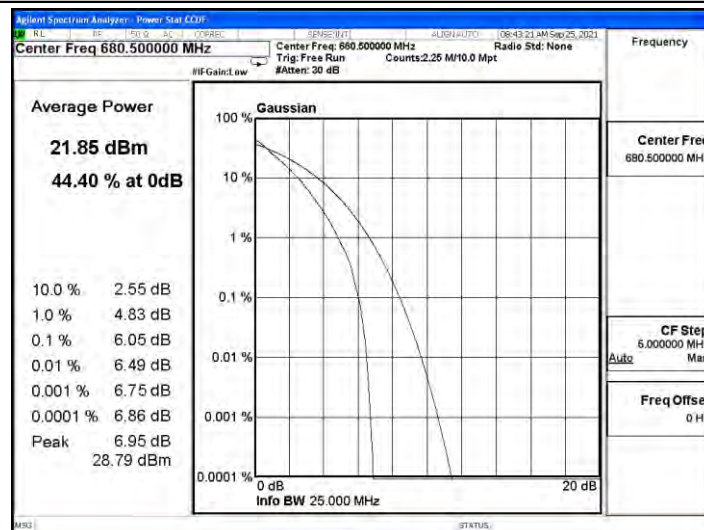
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



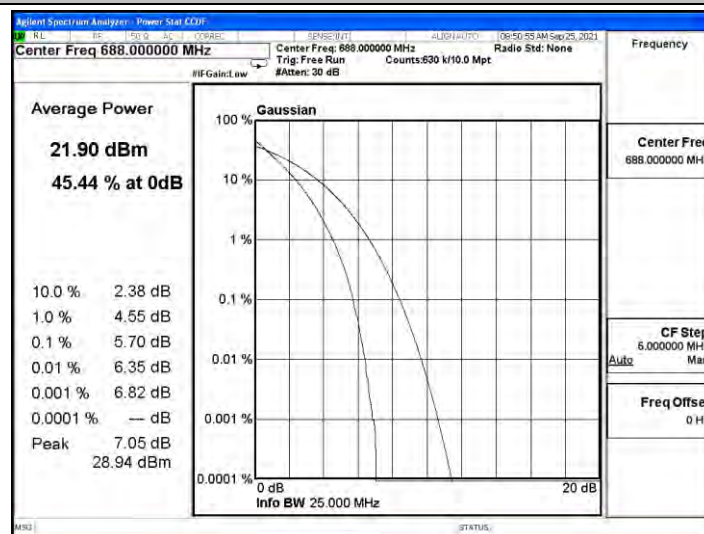
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



H.3 26dB Bandwidth and Occupied Bandwidth

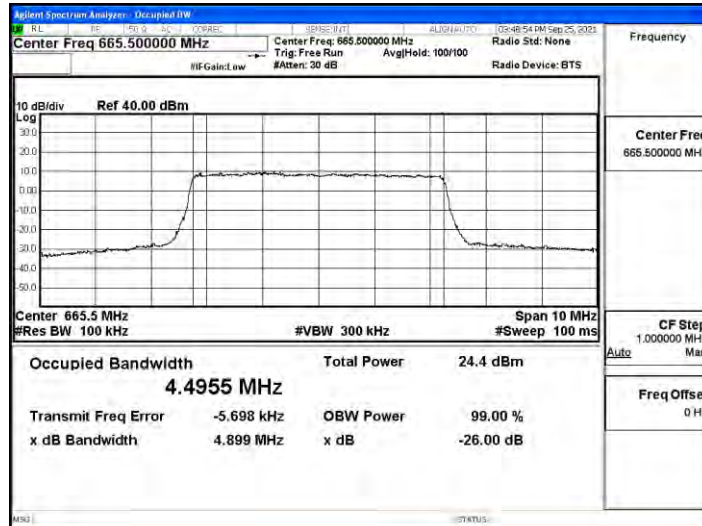
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4955	4.899	PASS
	MCH	4.5022	4.884	PASS
	HCH	4.4888	4.854	PASS
16QAM	LCH	4.4955	4.841	PASS
	MCH	4.4994	4.874	PASS
	HCH	4.4933	4.863	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9955	9.611	PASS
	MCH	8.9633	9.515	PASS
	HCH	8.9525	9.504	PASS
16QAM	LCH	8.9777	9.567	PASS
	MCH	8.9633	9.519	PASS
	HCH	8.9488	9.498	PASS

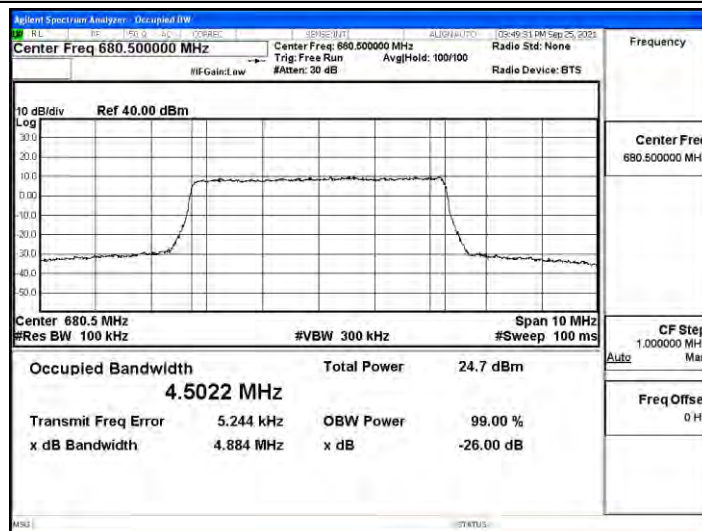
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.444	14.36	PASS
	MCH	13.424	14.22	PASS
	HCH	13.474	14.22	PASS
16QAM	LCH	13.447	14.27	PASS
	MCH	13.422	14.23	PASS
	HCH	13.477	14.27	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.922	18.99	PASS
	MCH	17.866	18.94	PASS
	HCH	17.911	18.94	PASS
16QAM	LCH	17.919	18.97	PASS
	MCH	17.858	18.99	PASS
	HCH	17.927	18.92	PASS

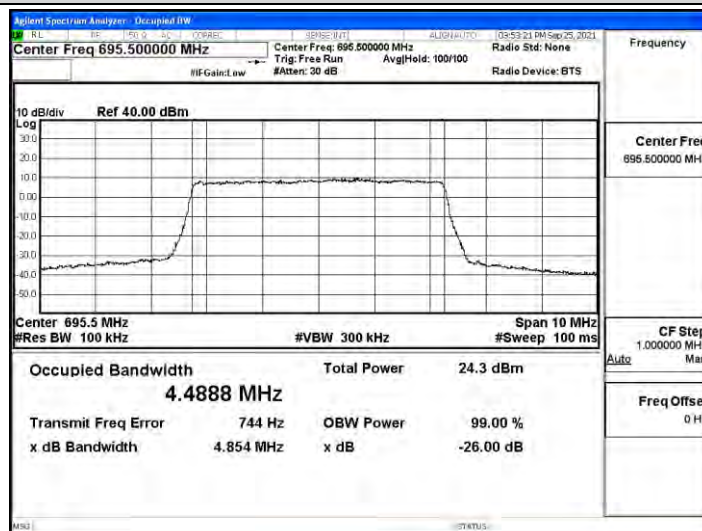
Band71-5MHz-QPSK-133147-25RB#0-4.4956



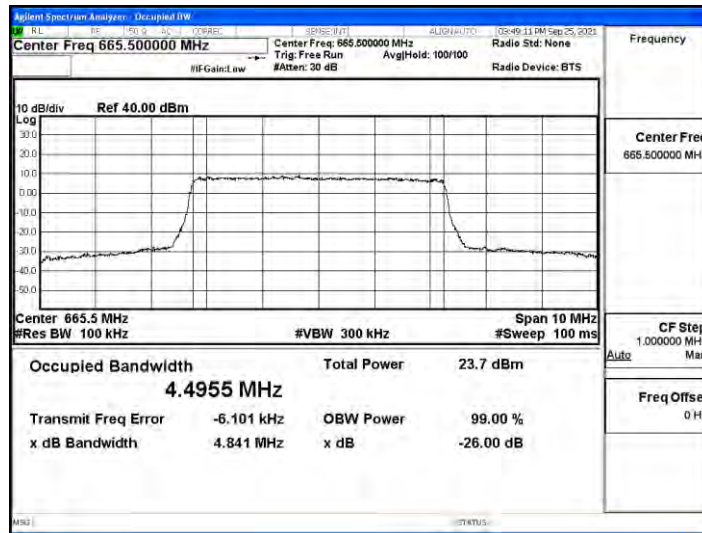
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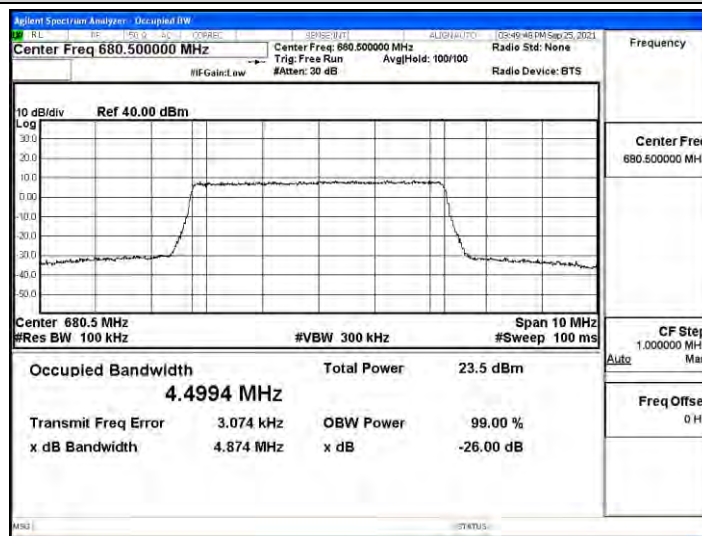
Band71-5MHz-QPSK-133447-25RB#0-4.4889



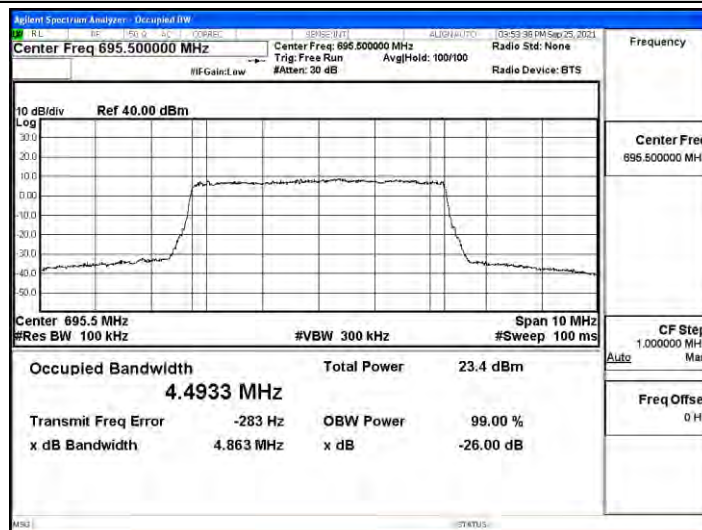
Band71-5MHz-16QAM-133147-25RB#0-4.4956



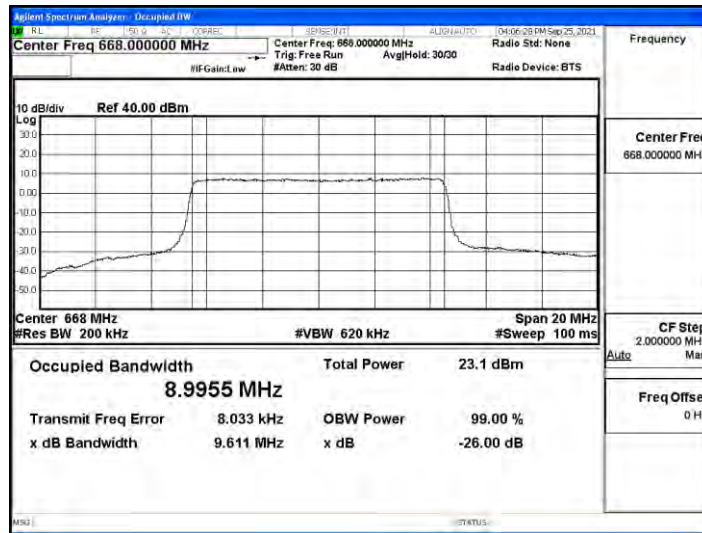
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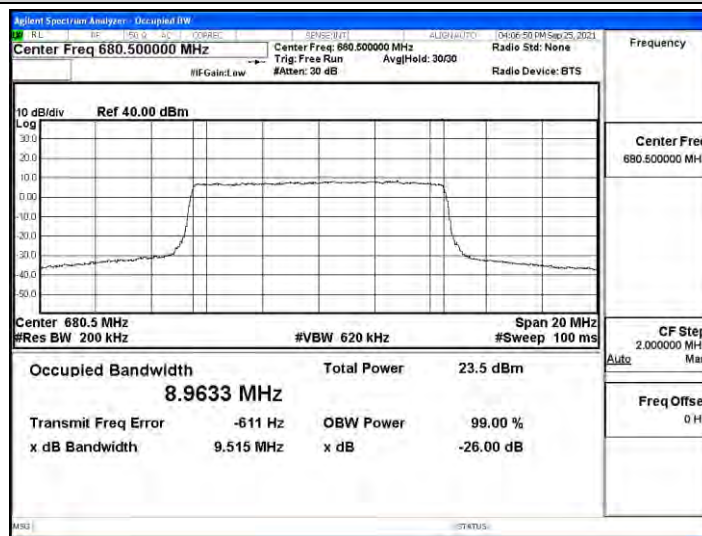
Band71-5MHz-16QAM-133447-25RB#0-4.4936



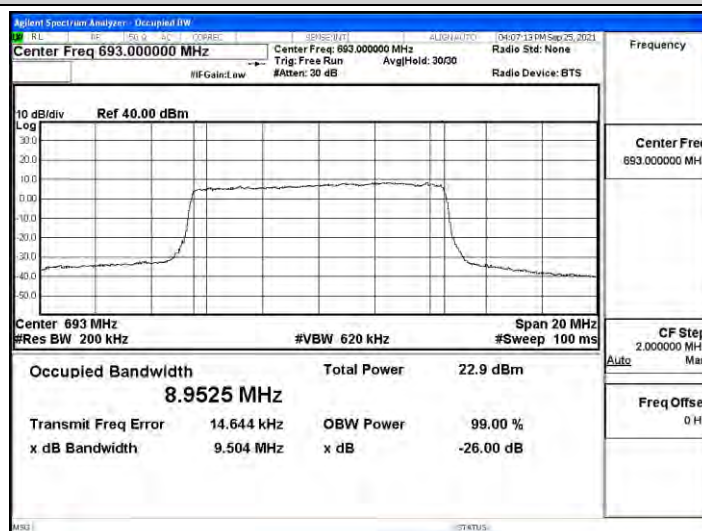
Band71-10MHz-QPSK-133172-50RB#0-8.9958



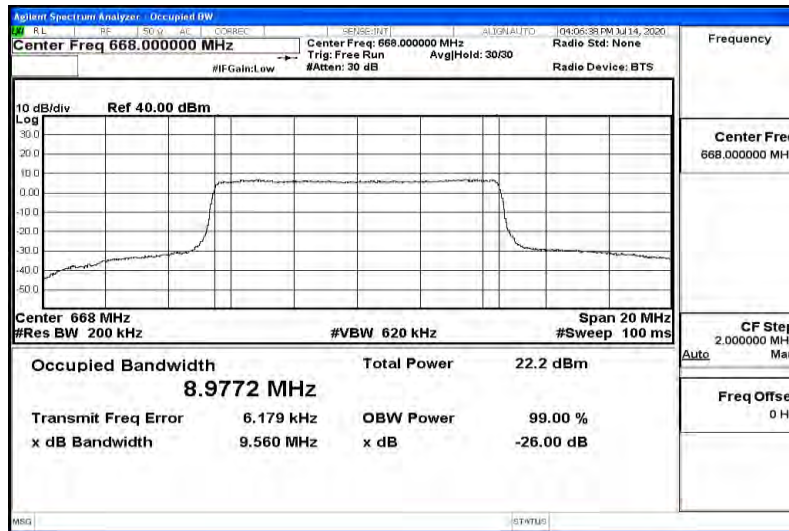
Band71-10MHz-QPSK-133297-50RB#0-8.9637



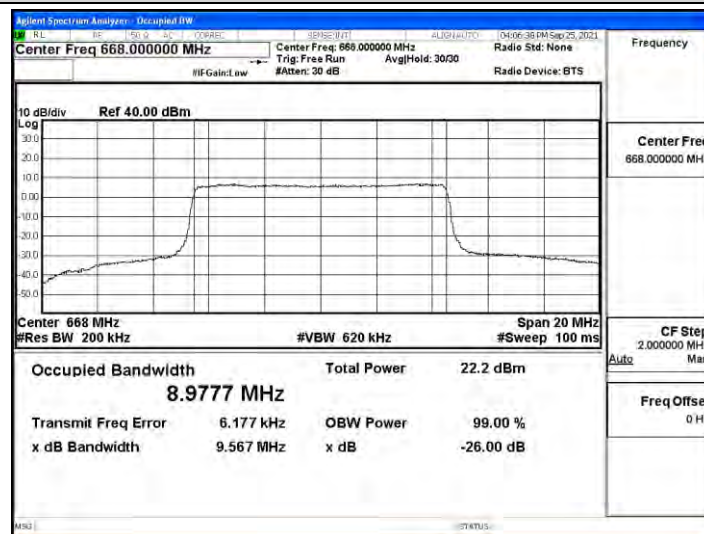
Band71-10MHz-QPSK-133422-50RB#0-8.9522



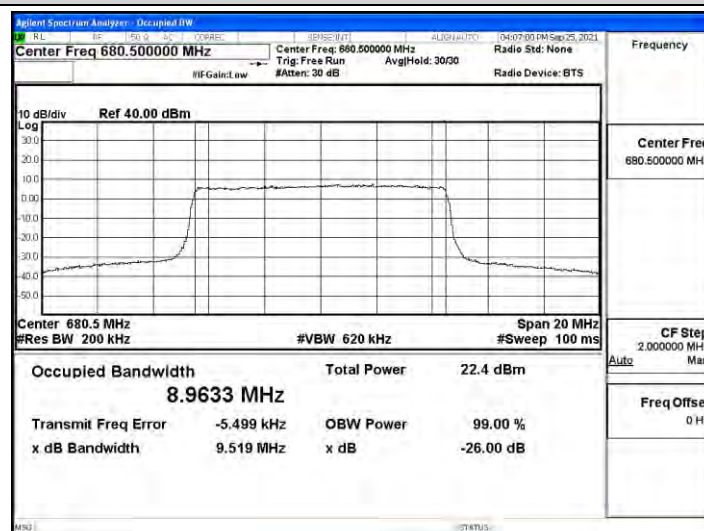
Band71-10MHz-16QAM-133172-50RB#0-8.9772



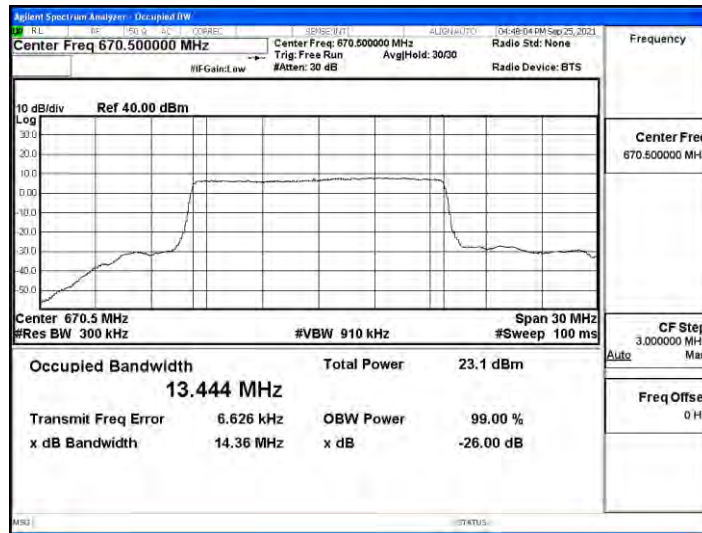
Band71-10MHz-16QAM-133297-50RB#0-8.9637



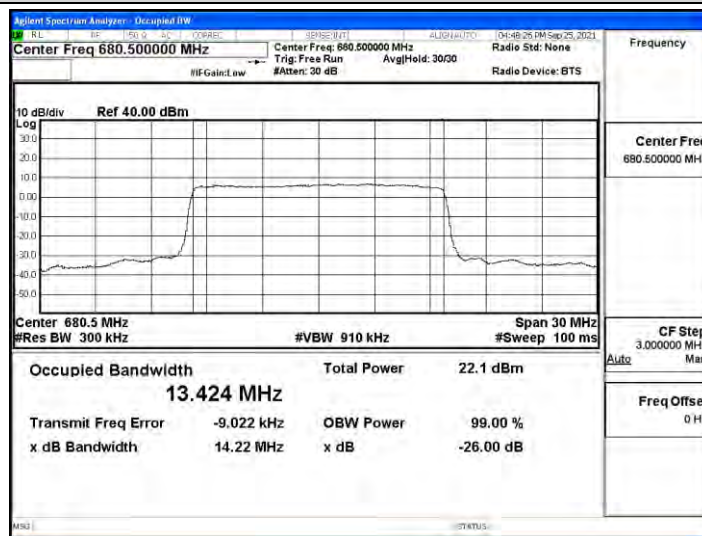
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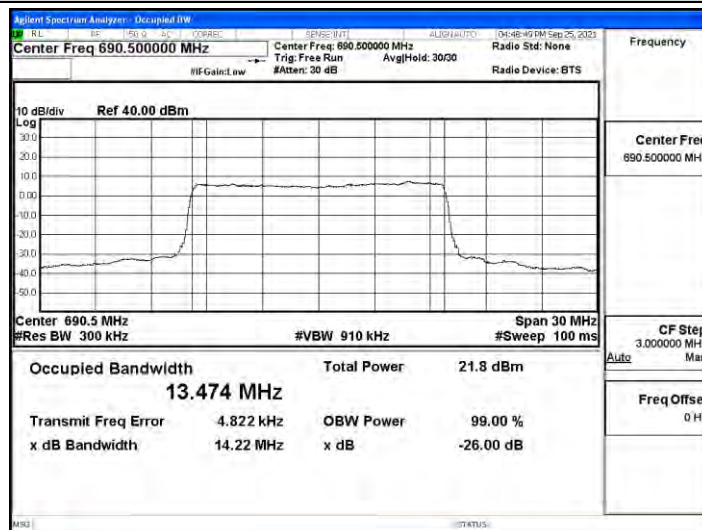
Band71-15MHz-QPSK-133197-75RB#0-13.445



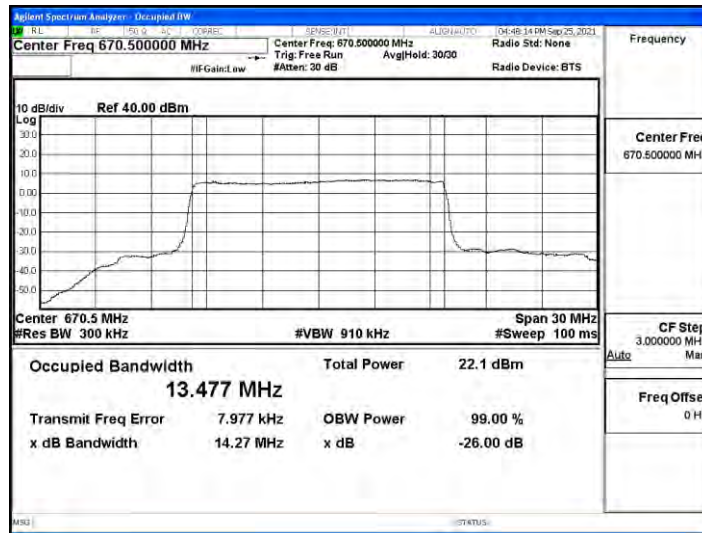
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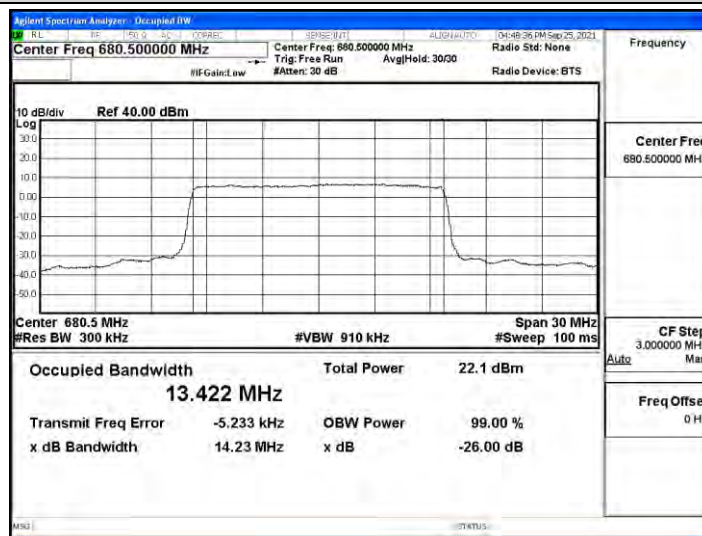
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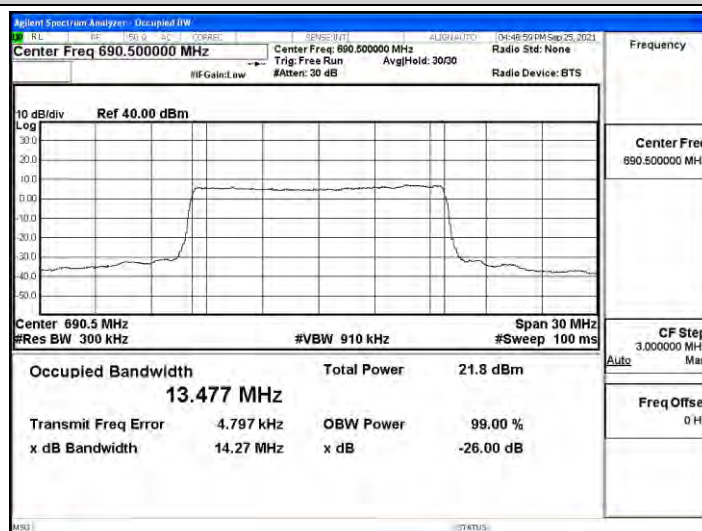
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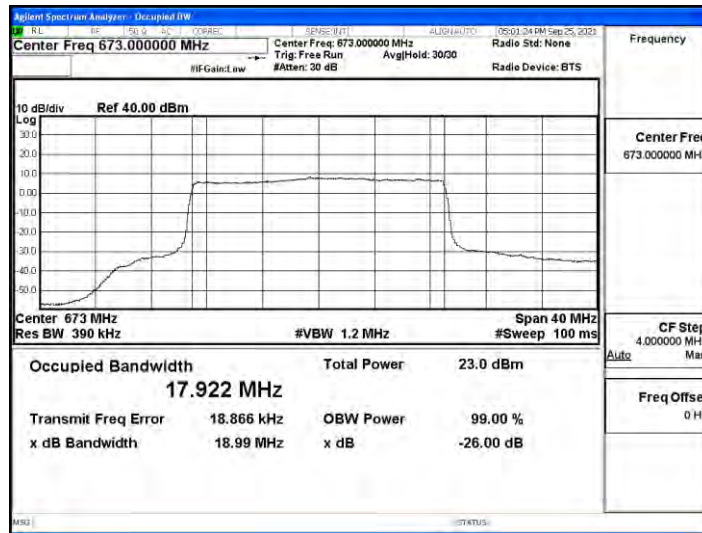
Band71-15MHz-16QAM-133297-75RB#0-13.425



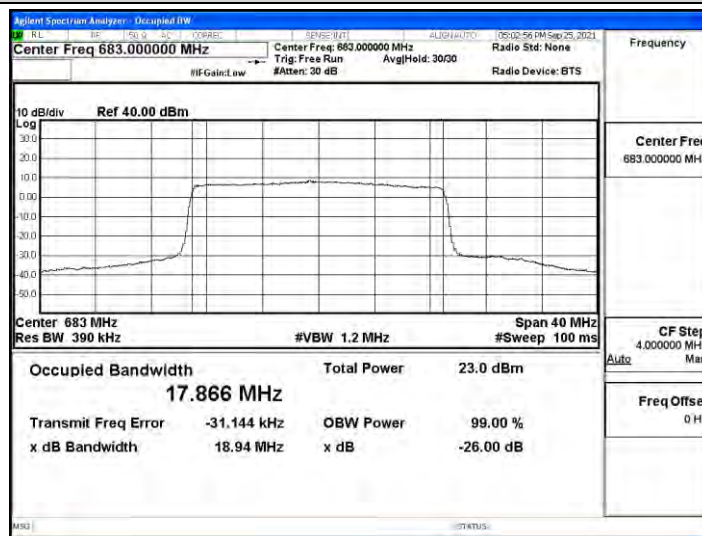
Band71-15MHz-16QAM-133397-75RB#0-13.475



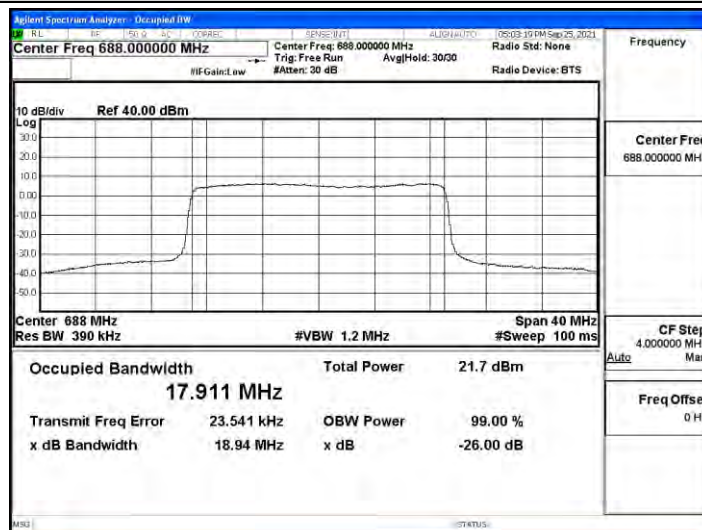
Band71-20MHz-QPSK-133222-100RB#0-17.920



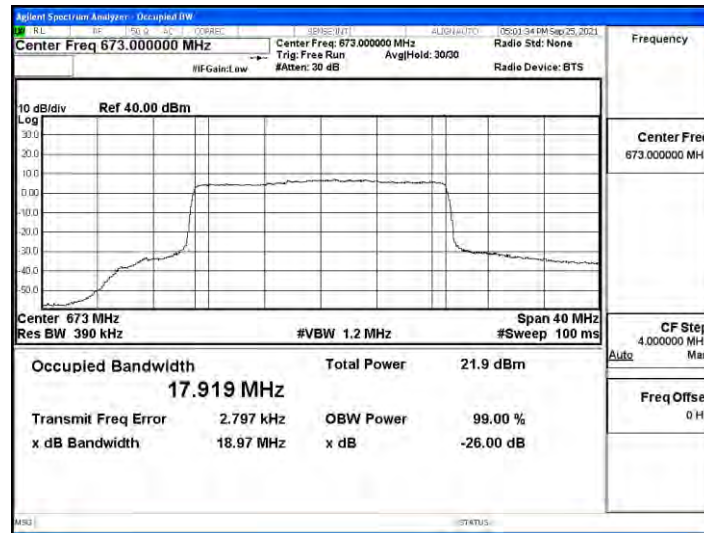
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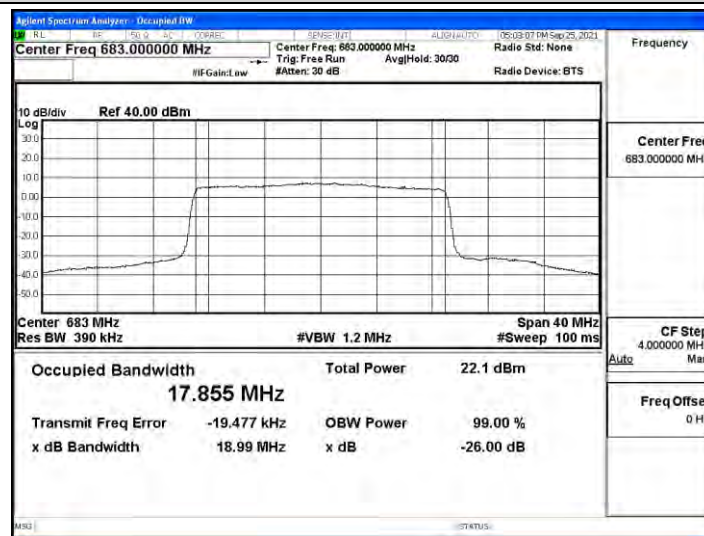
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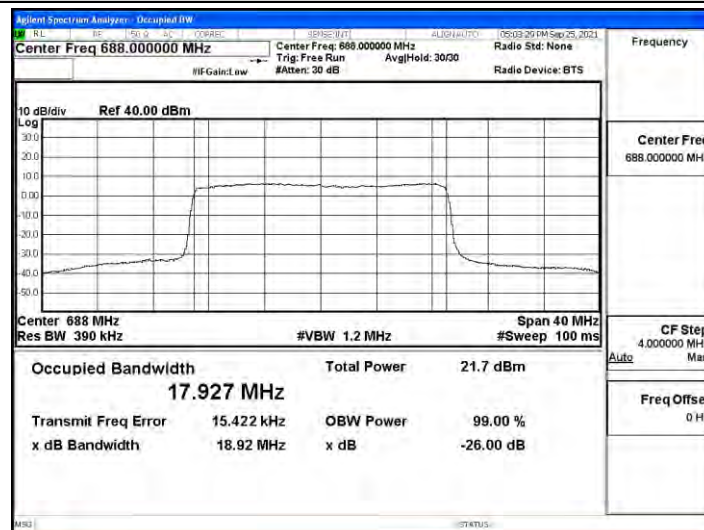
Band71-20MHz-16QAM-133222-100RB#0-17.911



Band71-20MHz-16QAM-133322-100RB#0-17.854

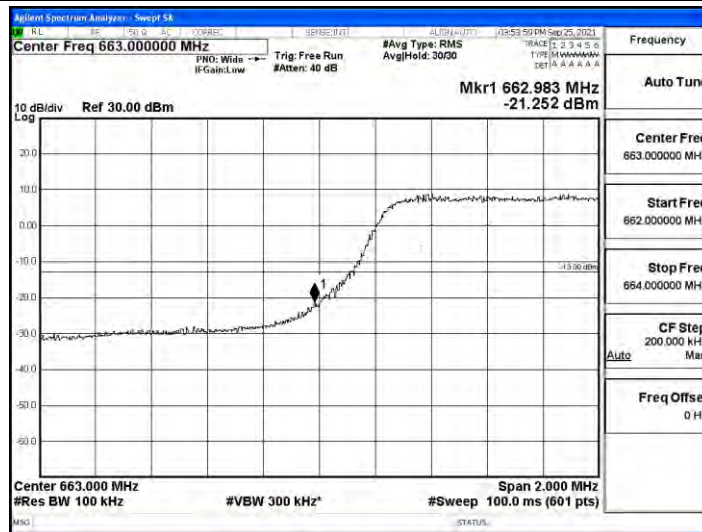


Band71-20MHz-16QAM-133372-100RB#0-17.922

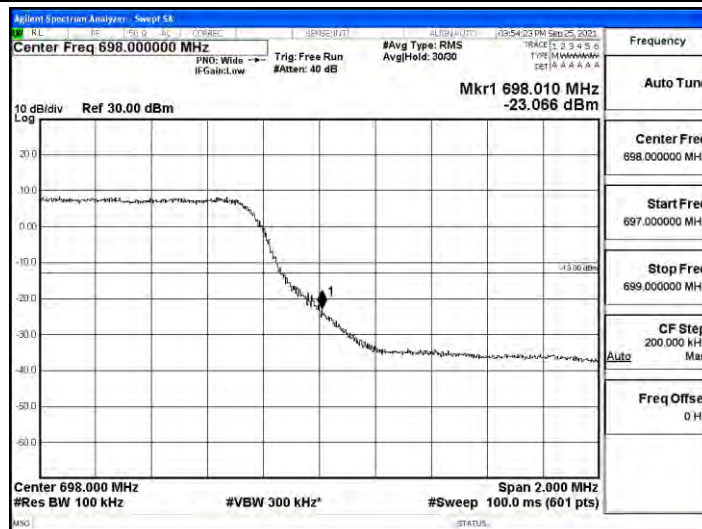


H.4 Band Edge

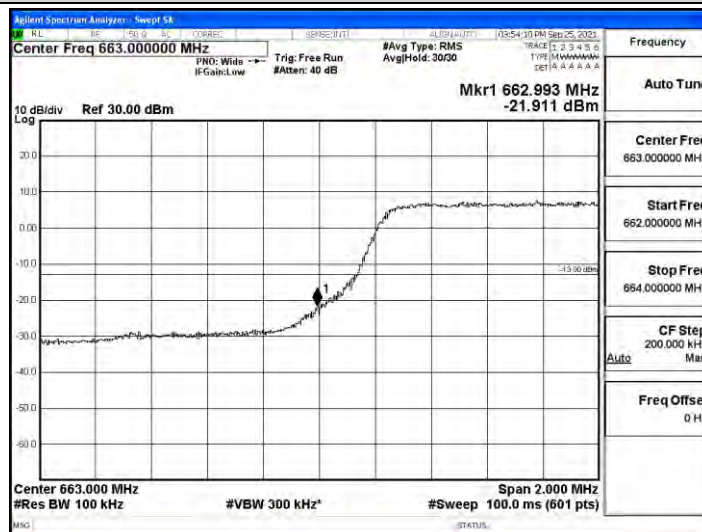
Band71-5MHz-QPSK-133147-25RB#0



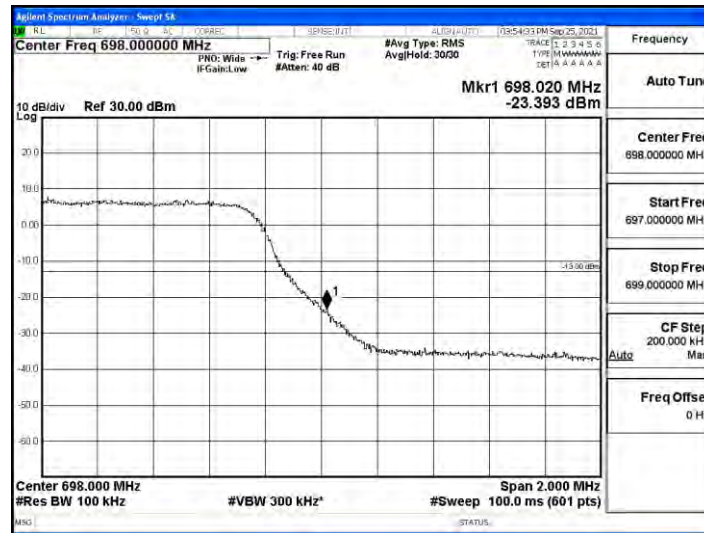
Band71-5MHz-QPSK-133447-25RB#0



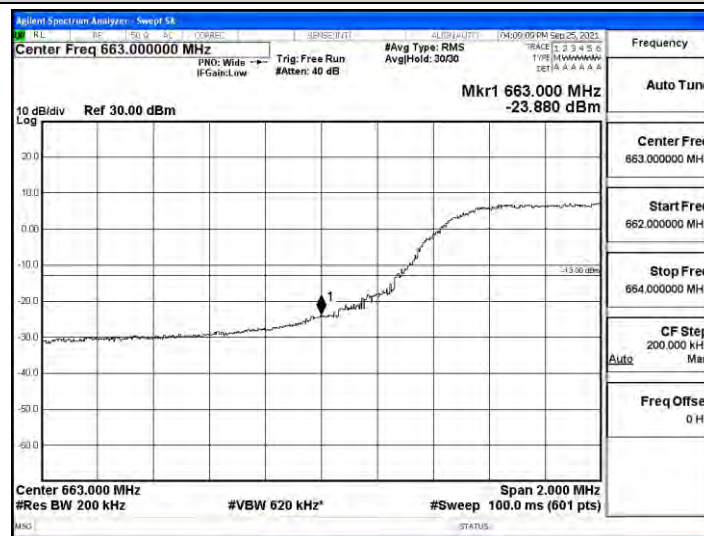
Band71-5MHz-16QAM-133147-25RB#0



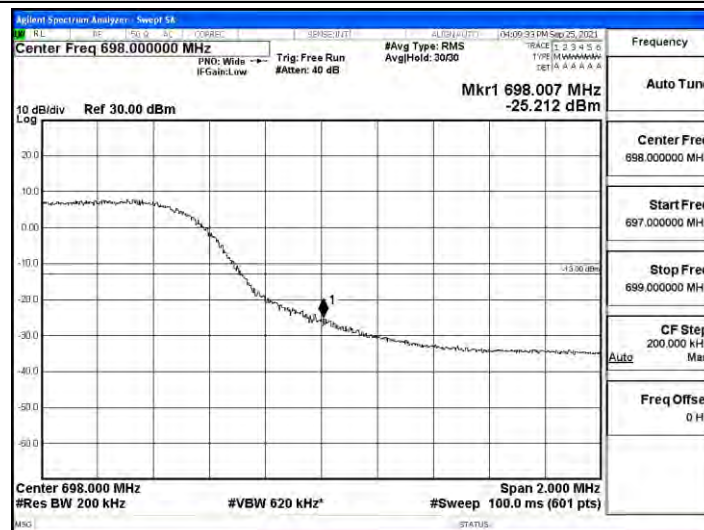
Band71-5MHz-16QAM-133447-25RB#0



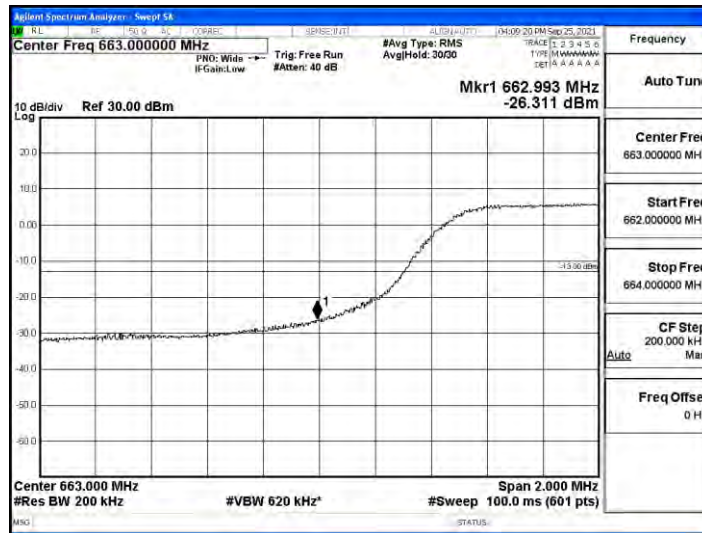
Band71-10MHz-QPSK-133172-50RB#0



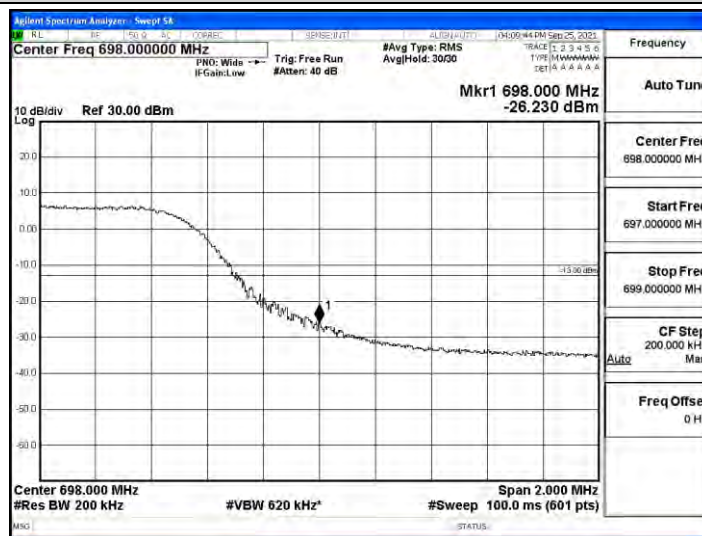
Band71-10MHz-QPSK-133422-50RB#0



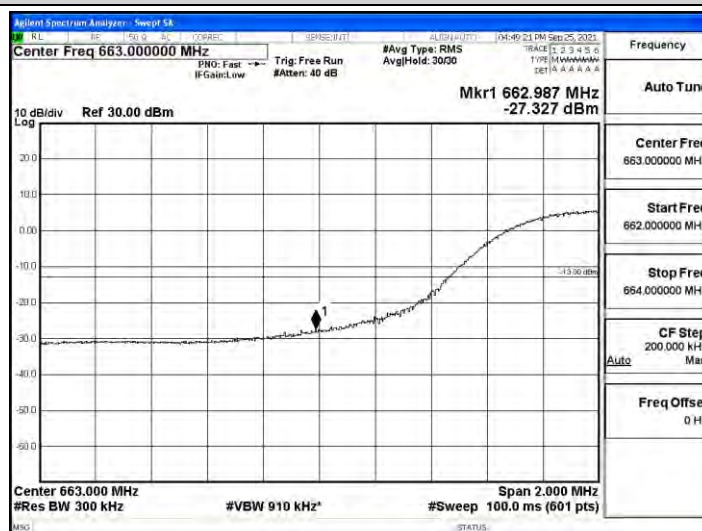
Band71-10MHz-16QAM-133172-50RB#0



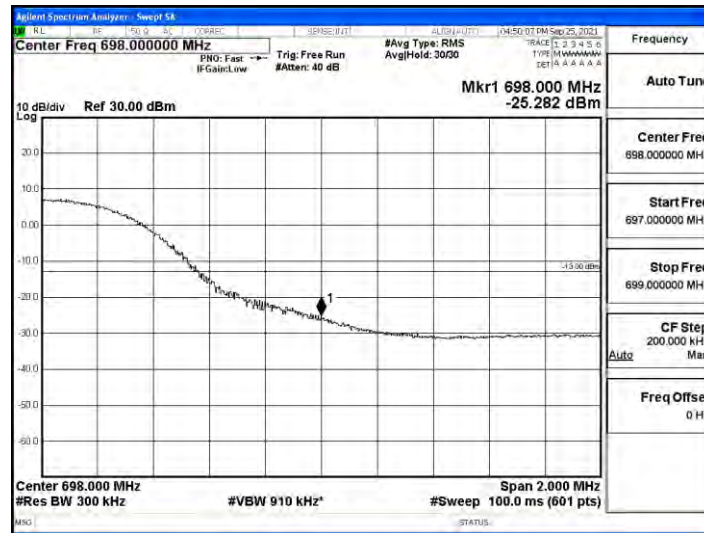
Band71-10MHz-16QAM-133422-50RB#0



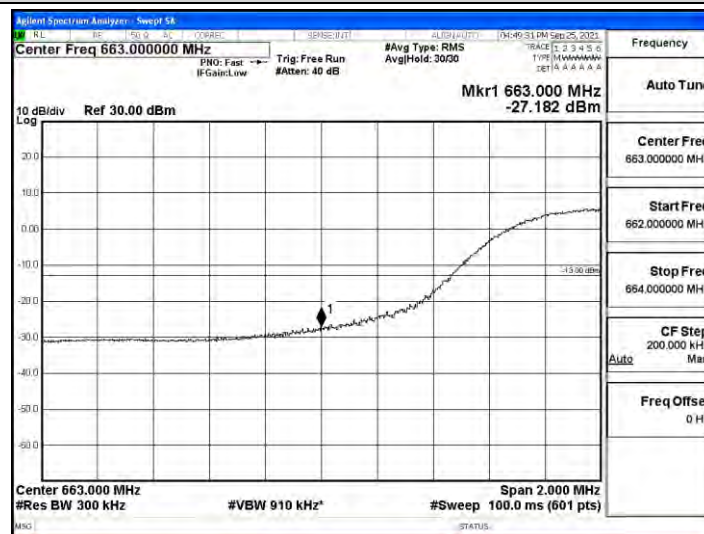
Band71-15MHz-QPSK-133197-75RB#0



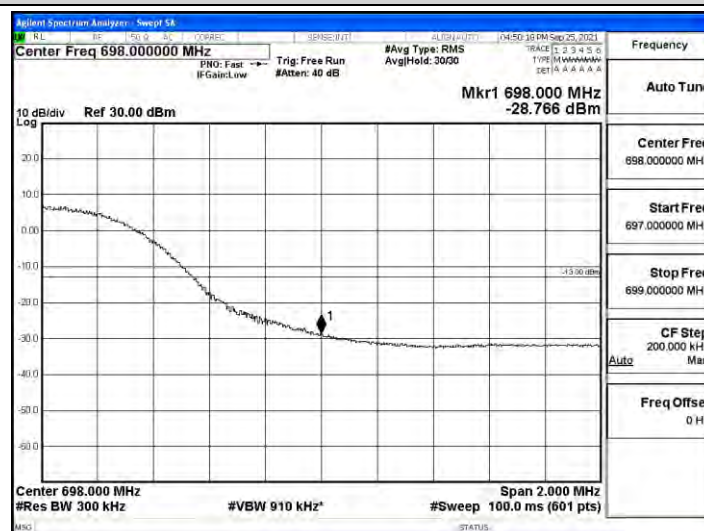
Band71-15MHz-QPSK-133397-75RB#0



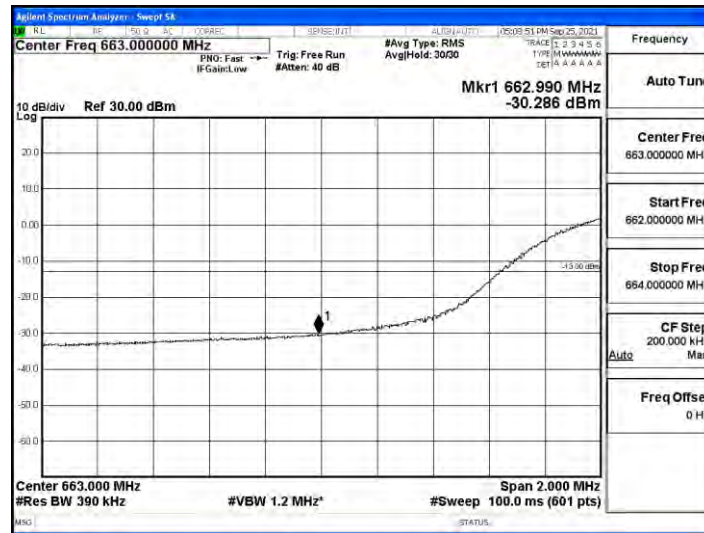
Band71-15MHz-16QAM-133197-75RB#0



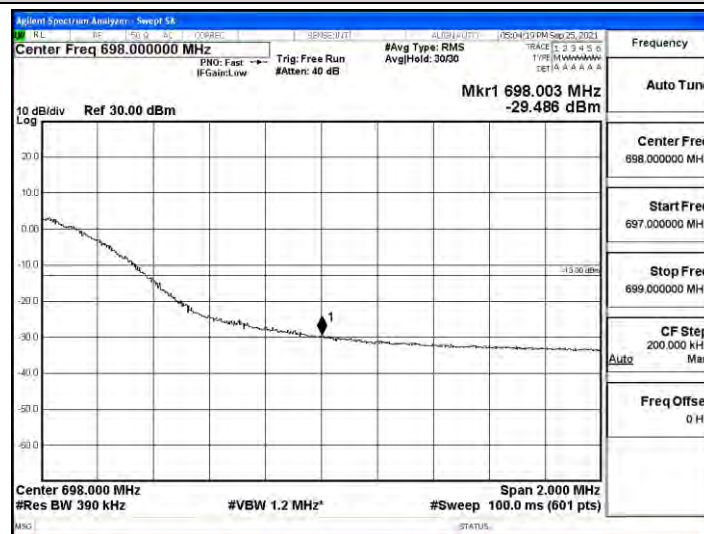
Band71-15MHz-16QAM-133397-75RB#0



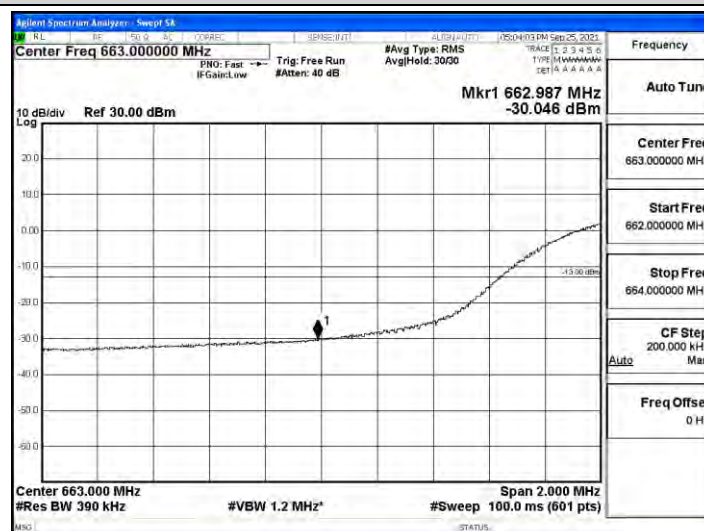
Band71-20MHz-QPSK-133222-100RB#0



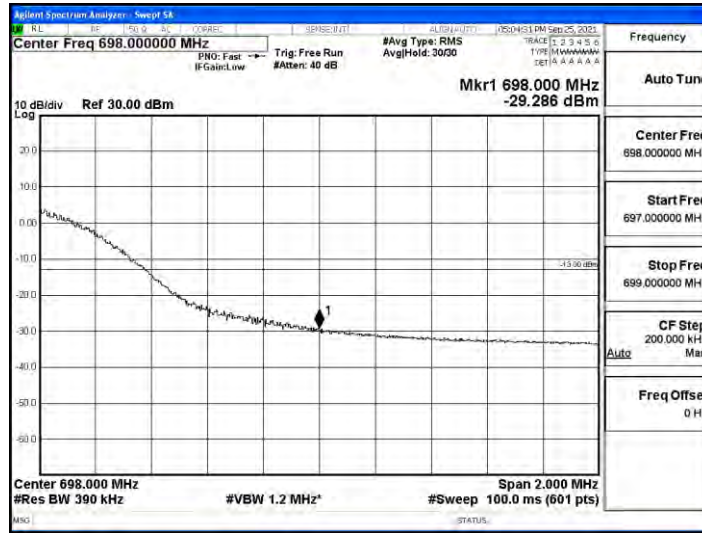
Band71-20MHz-QPSK-133372-100RB#0



Band71-20MHz-16QAM-133222-100RB#0



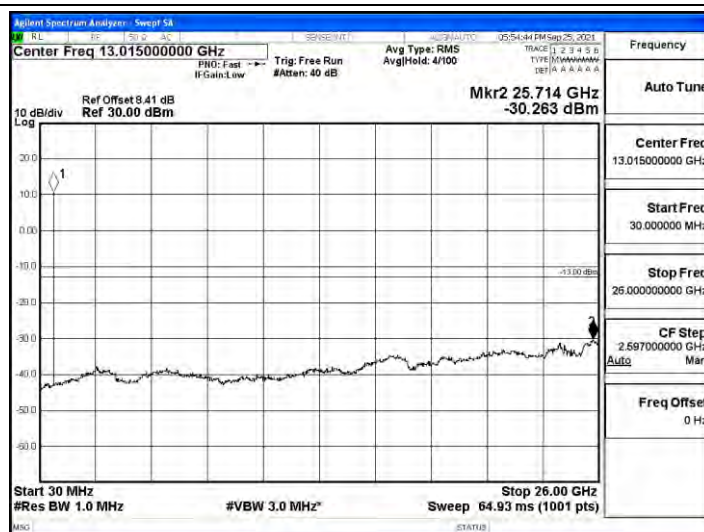
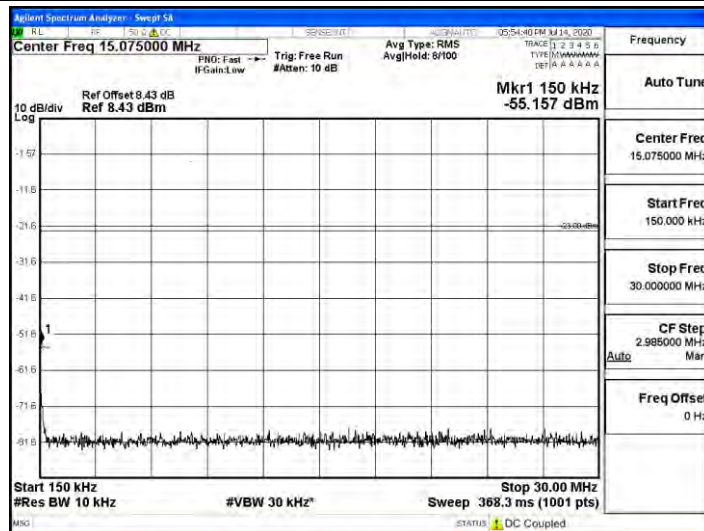
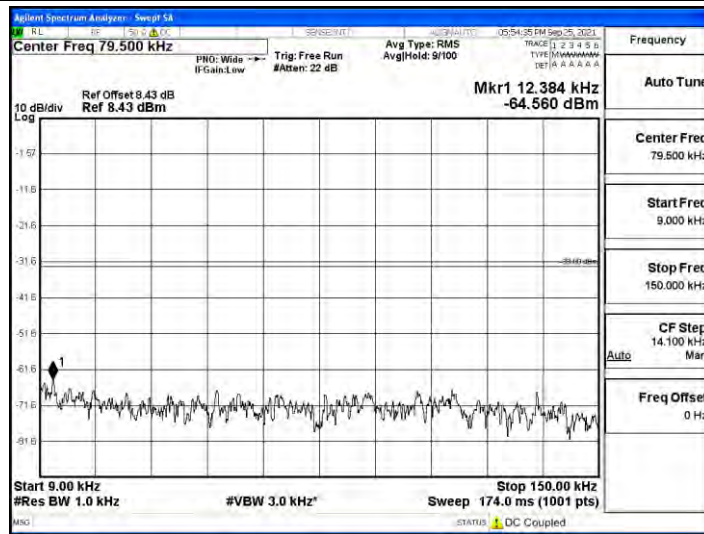
Band71-20MHz-16QAM-133372-100RB#0



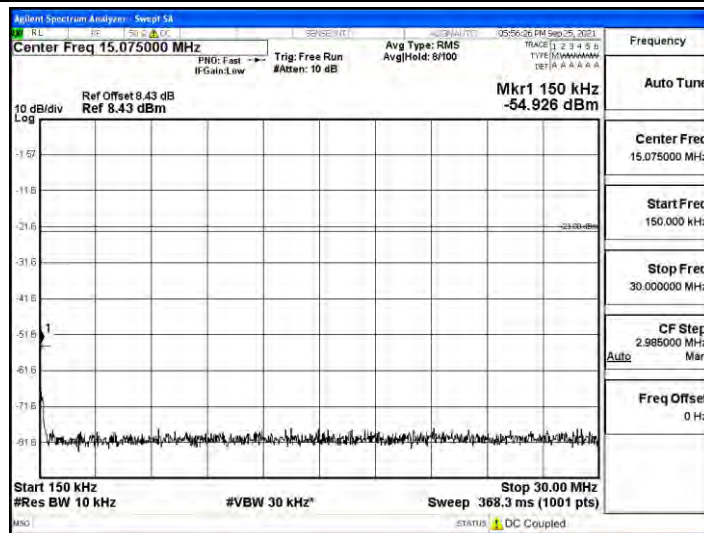
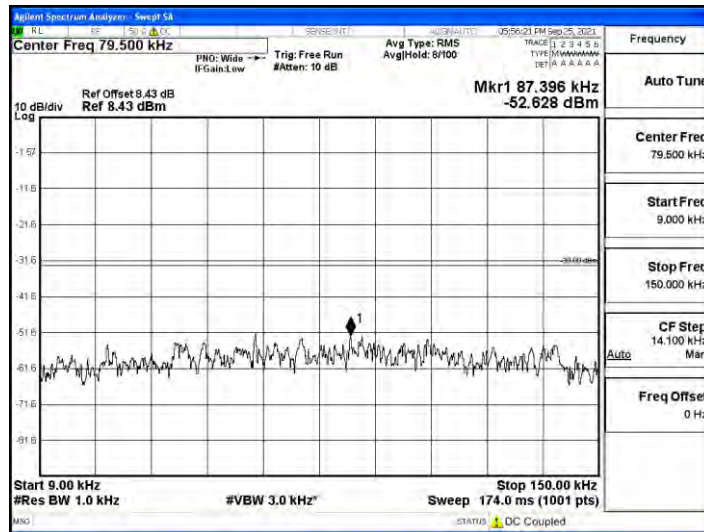
H.5 Conducted Spurious Emission

Channel Bandwidth: 5 MHz

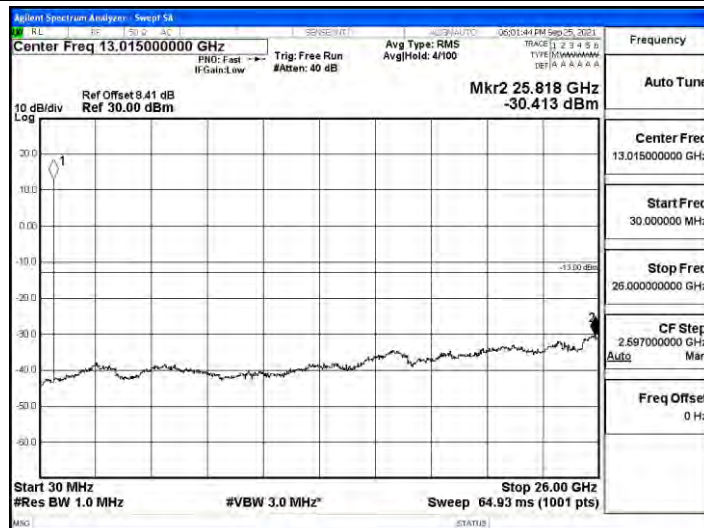
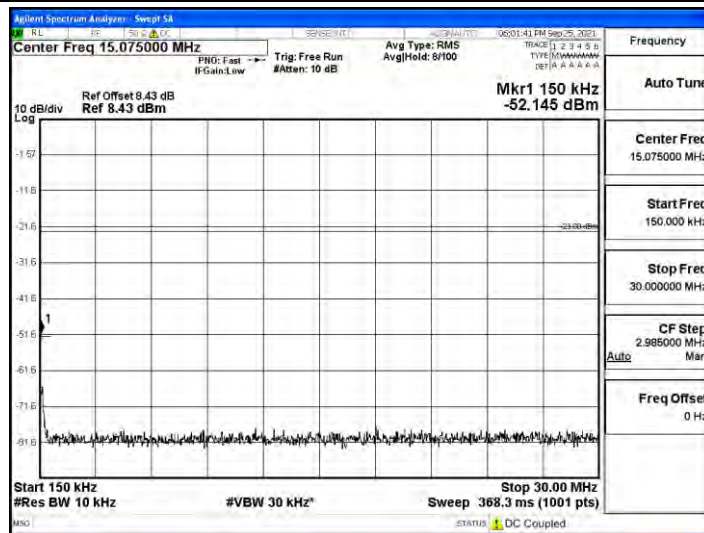
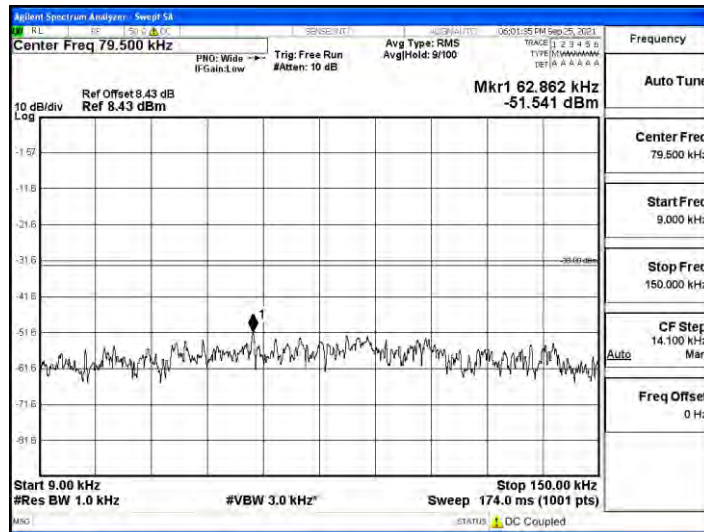
(Channel Bandwidth: 5 MHz)_LCH_QPSK



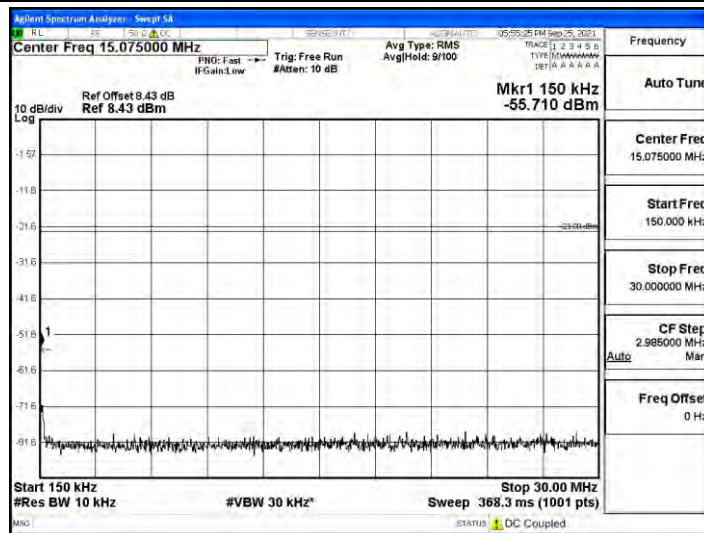
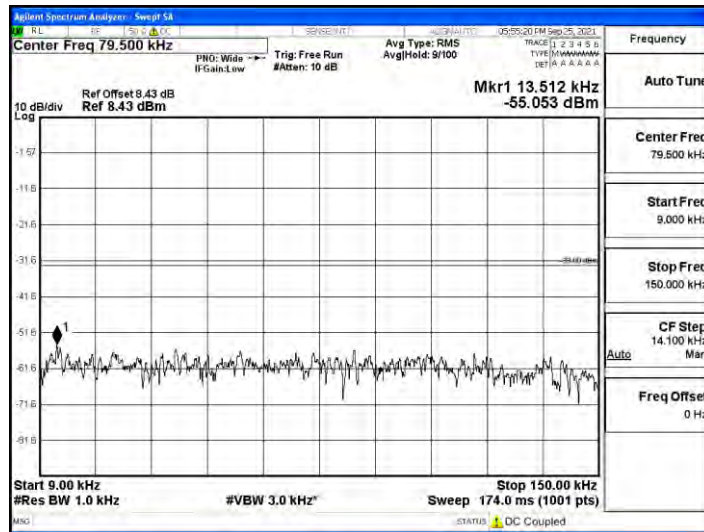
(Channel Bandwidth: 5 MHz)_MCH_QPSK



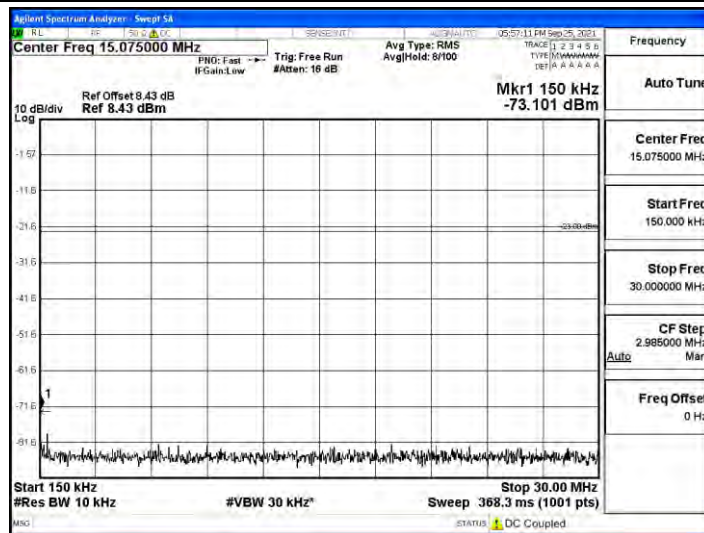
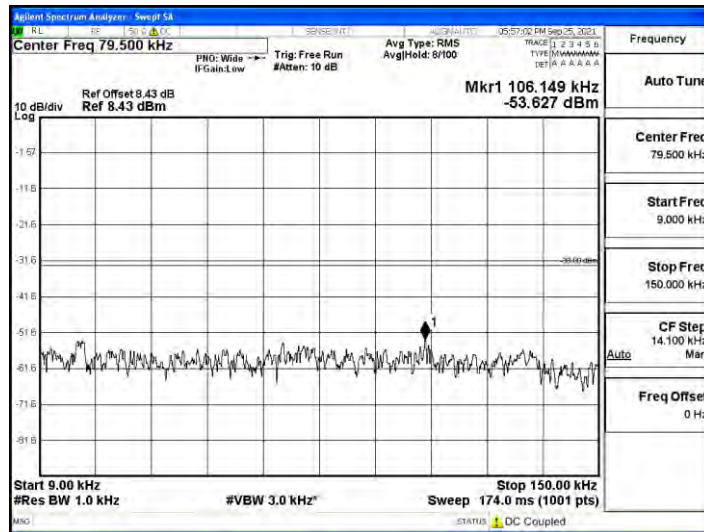
(Channel Bandwidth: 5 MHz)_HCH_QPSK



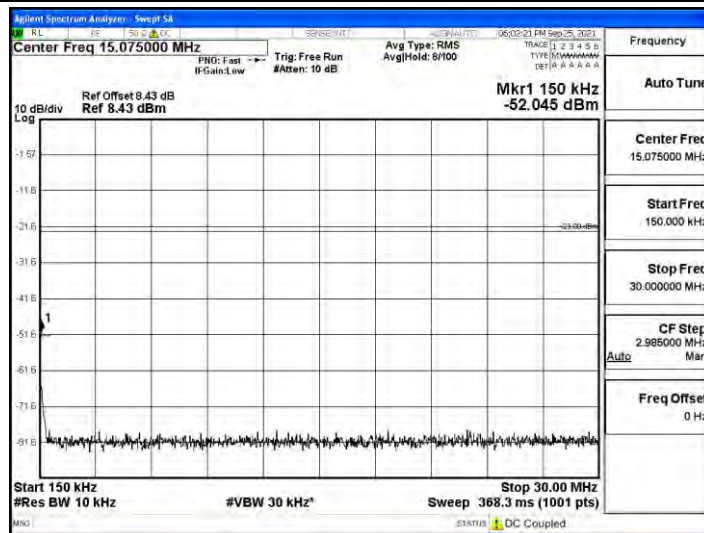
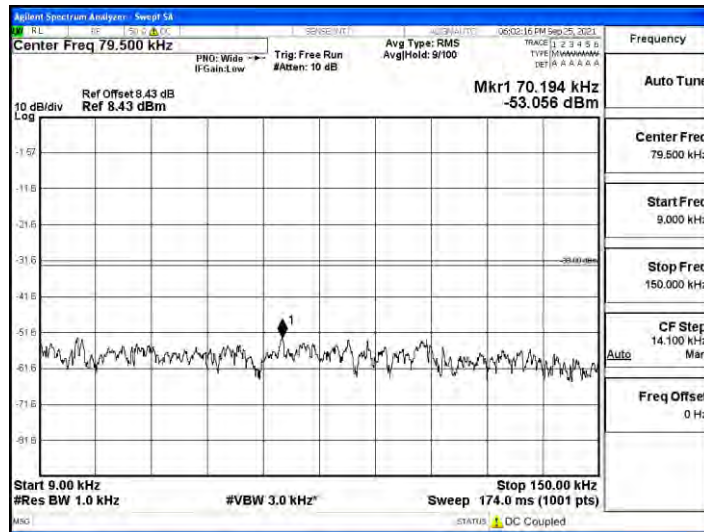
(Channel Bandwidth: 5 MHz)_LCH_16QAM



(Channel Bandwidth: 5 MHz)_MCH_16QAM

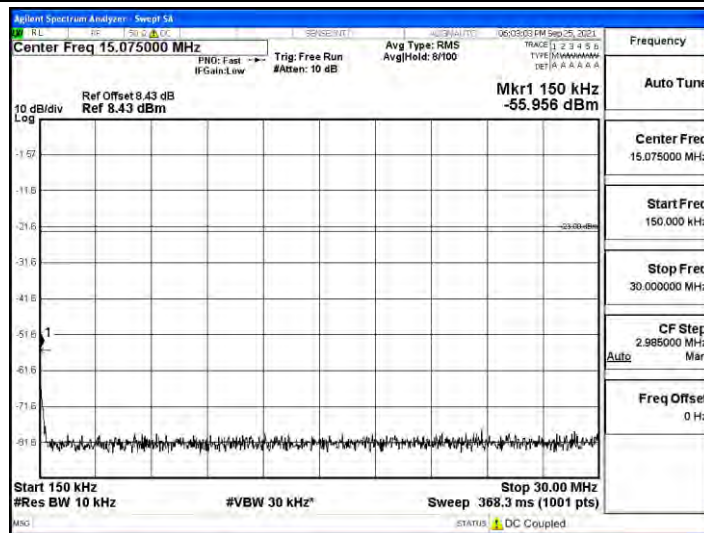
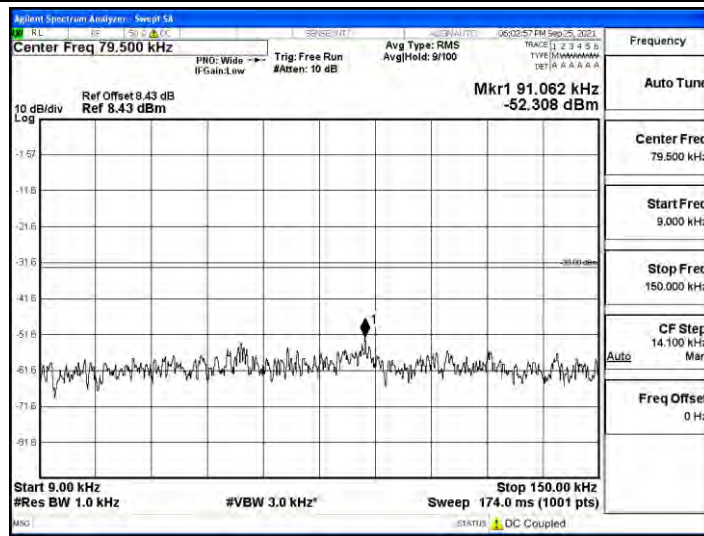


(Channel Bandwidth: 5 MHz)_HCH_16QAM

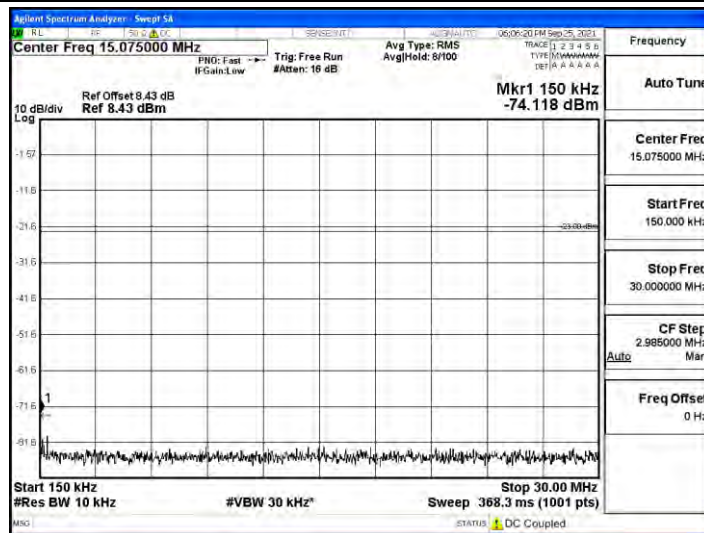
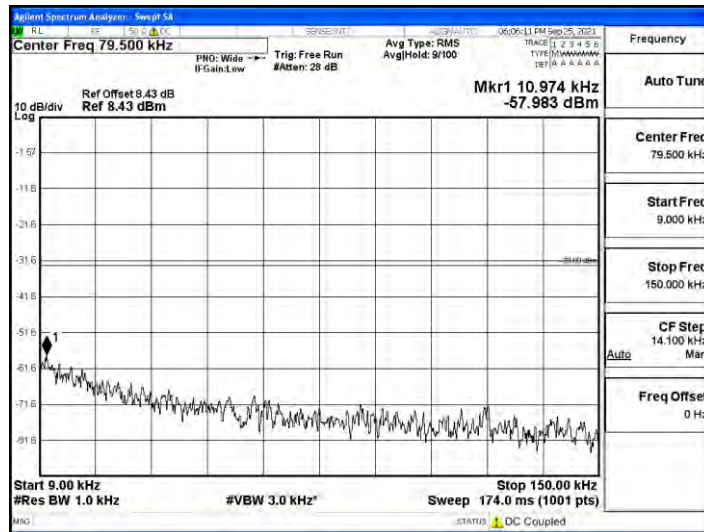


Channel Bandwidth: 10 MHz

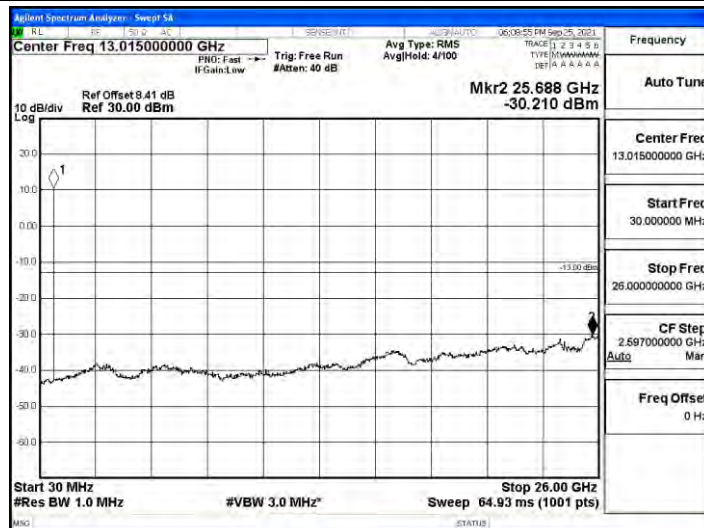
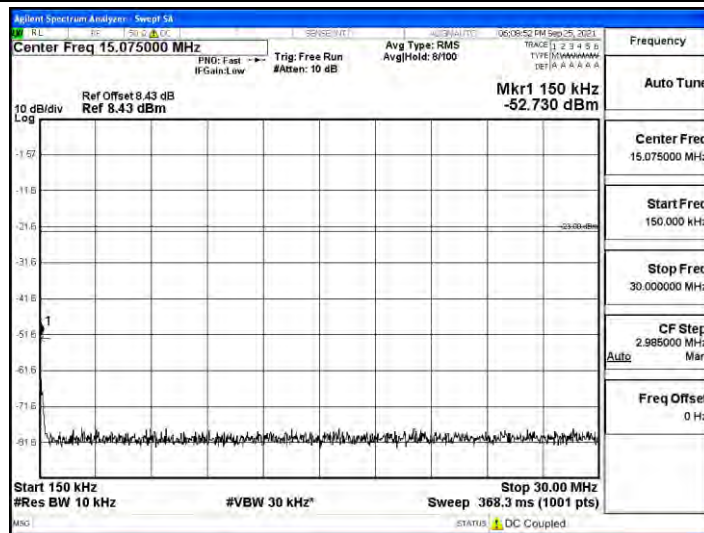
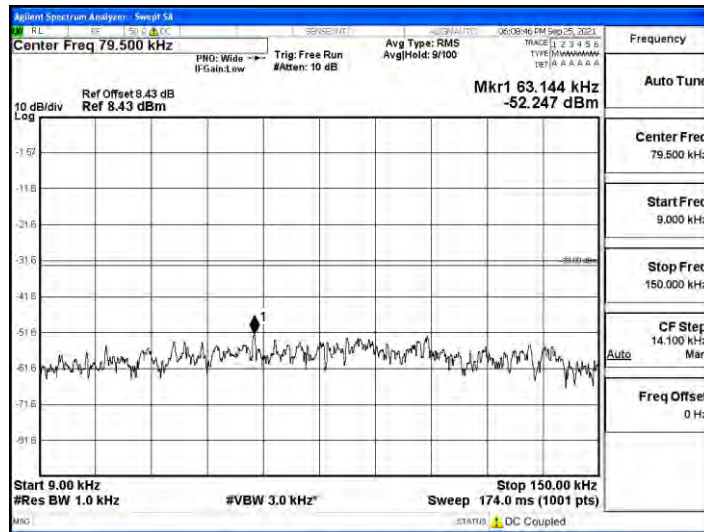
(Channel Bandwidth: 10 MHz) LCH_QPSK



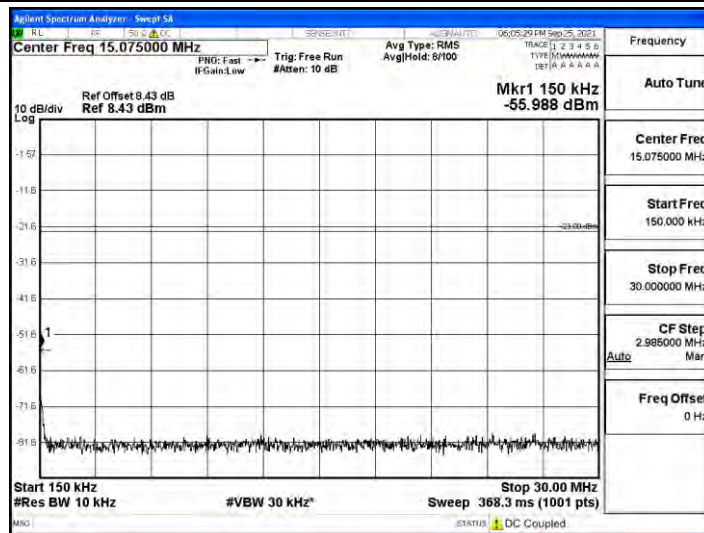
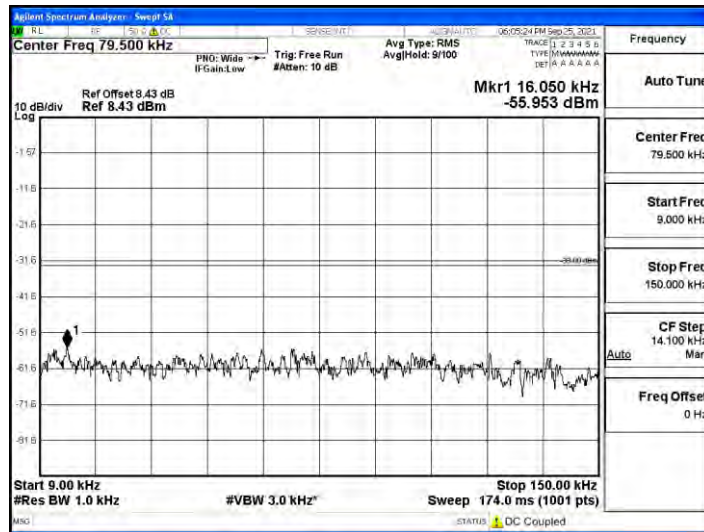
(Channel Bandwidth: 10 MHz)_MCH_QPSK



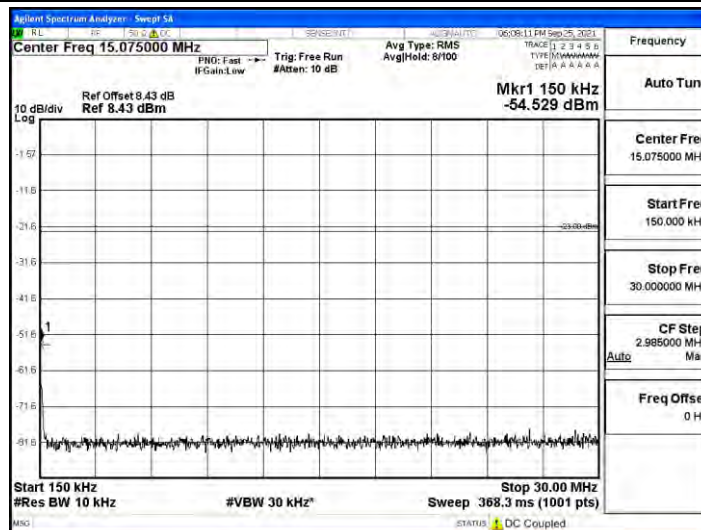
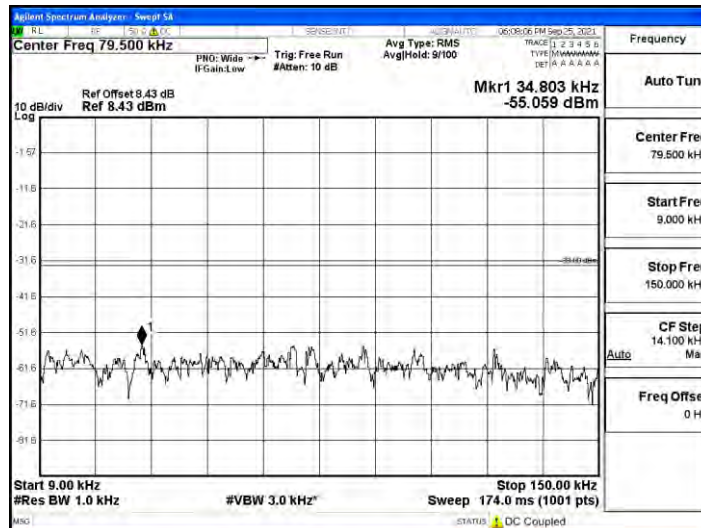
(Channel Bandwidth: 10MHz)_HCH_QPSK



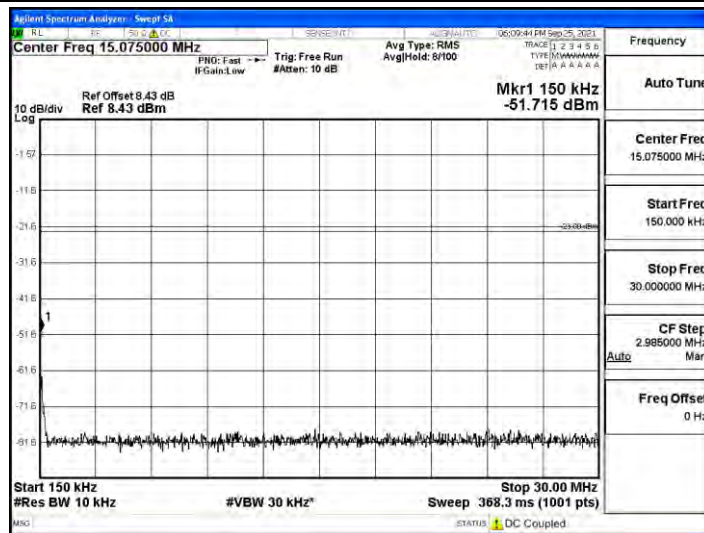
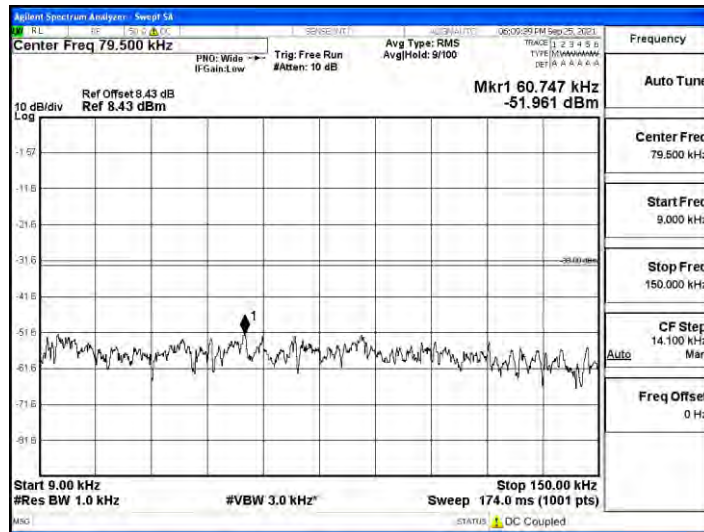
(Channel Bandwidth: 10 MHz)_LCH_16QAM



(Channel Bandwidth: 10 MHz)_MCH_16QAM

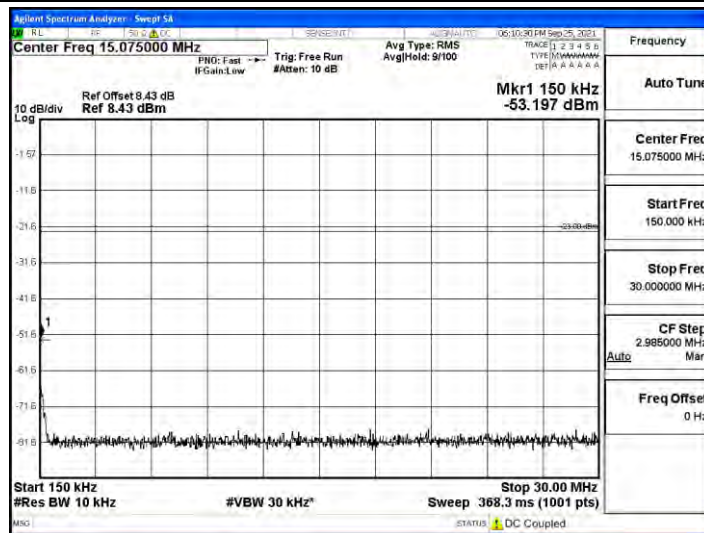
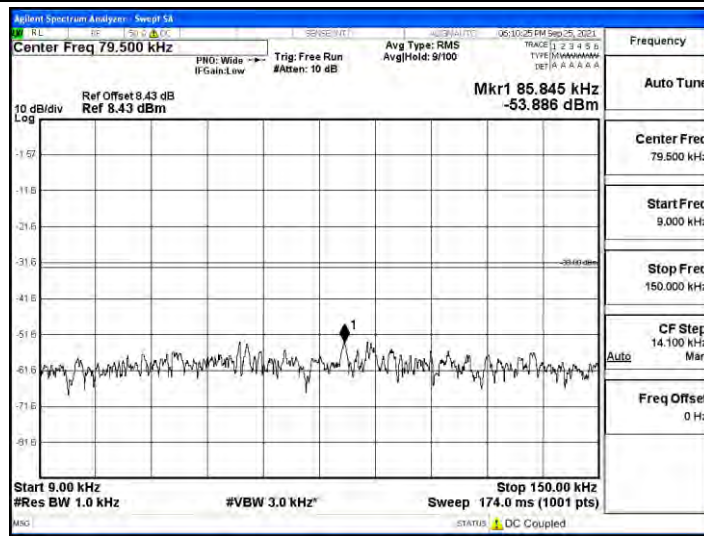


(Channel Bandwidth: 10 MHz)_HCH_16QAM

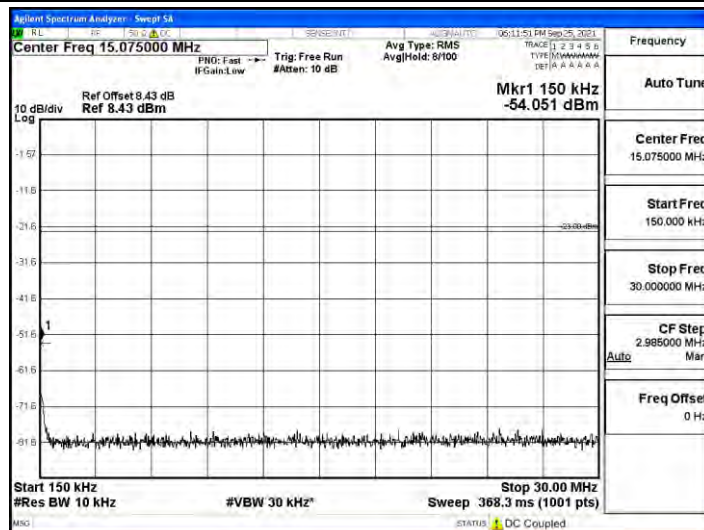
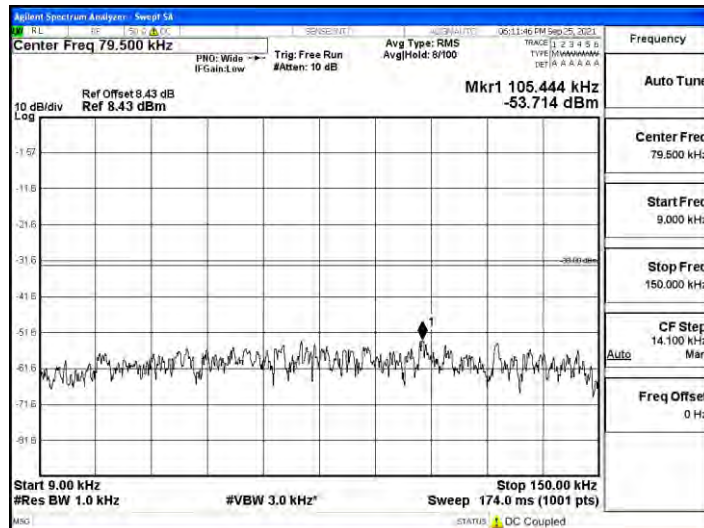


Channel Bandwidth:15MHz

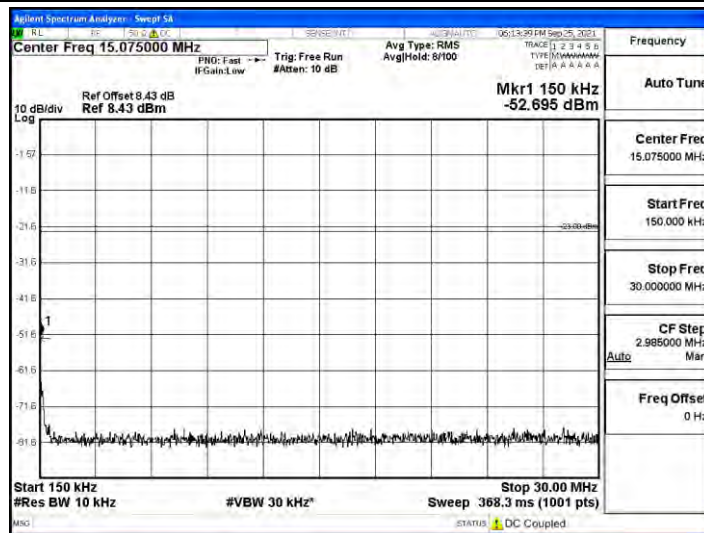
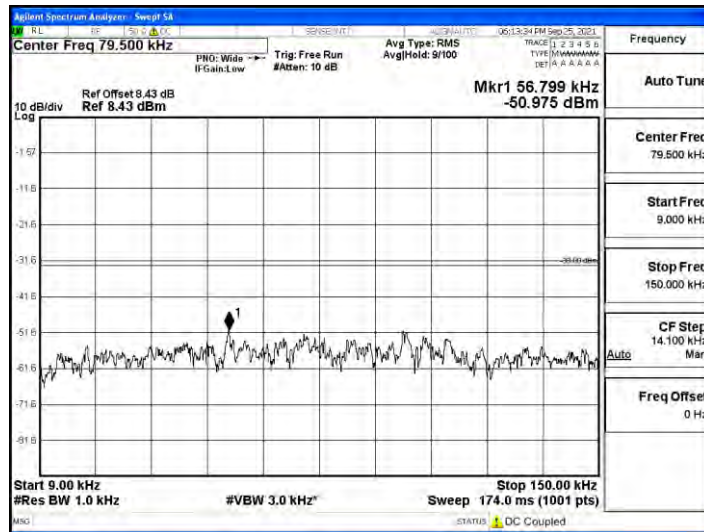
(Channel Bandwidth: 15 MHz) _LCH_QPSK



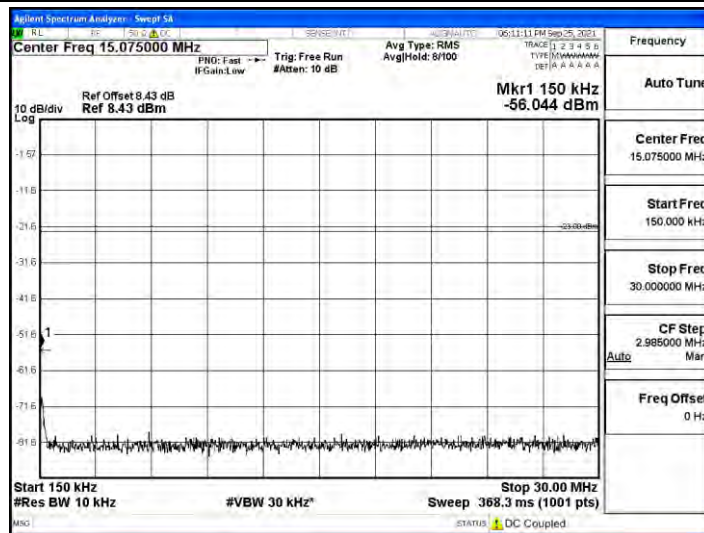
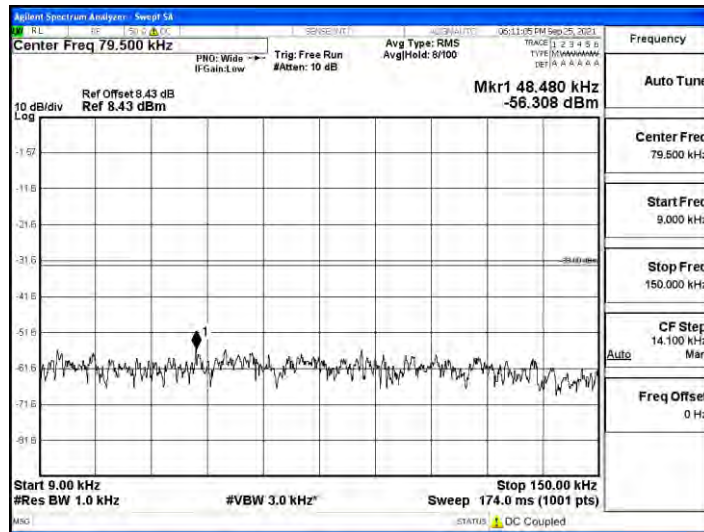
(Channel Bandwidth: 15 MHz)_MCH_QPSK



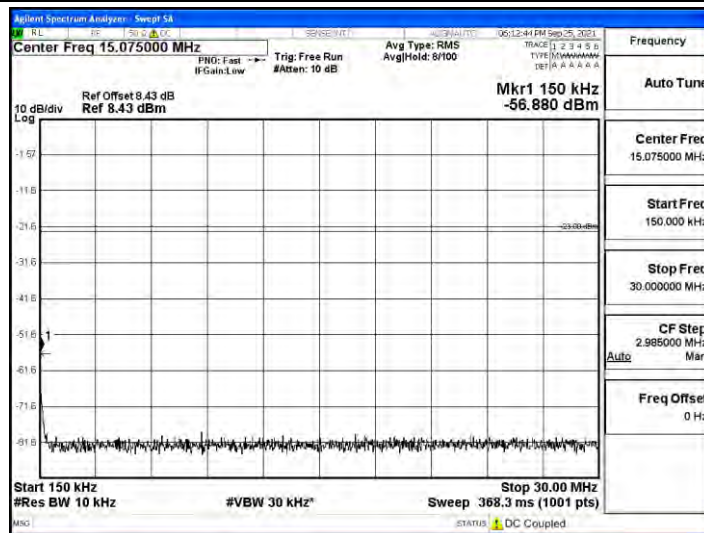
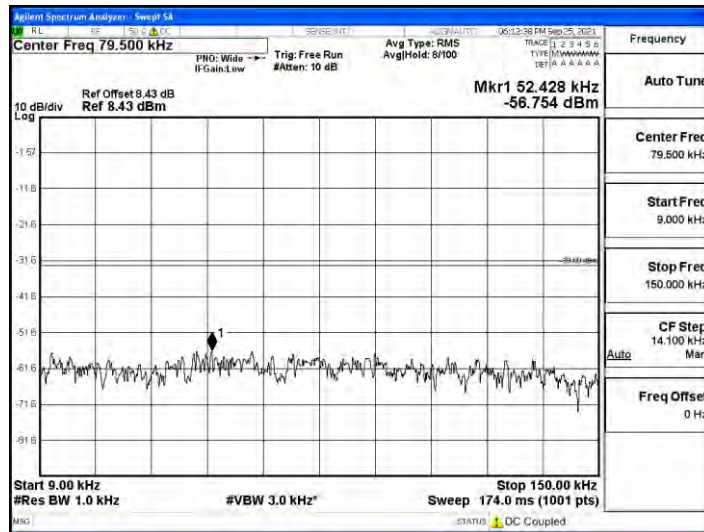
(Channel Bandwidth: 15 MHz)_HCH_QPSK



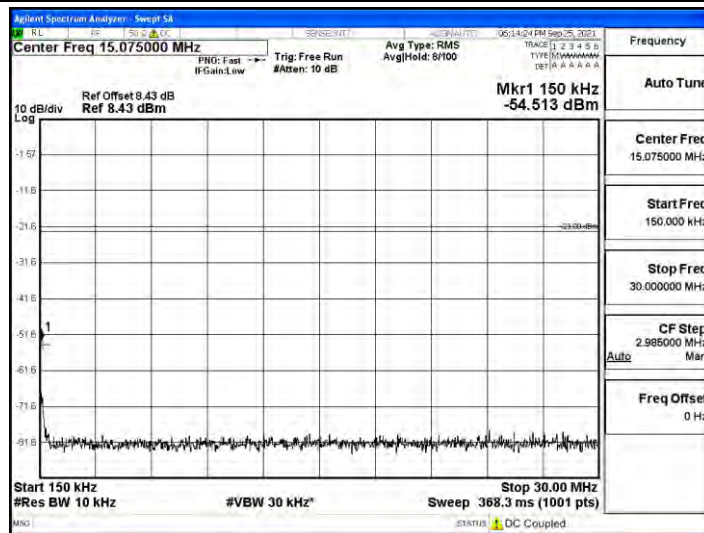
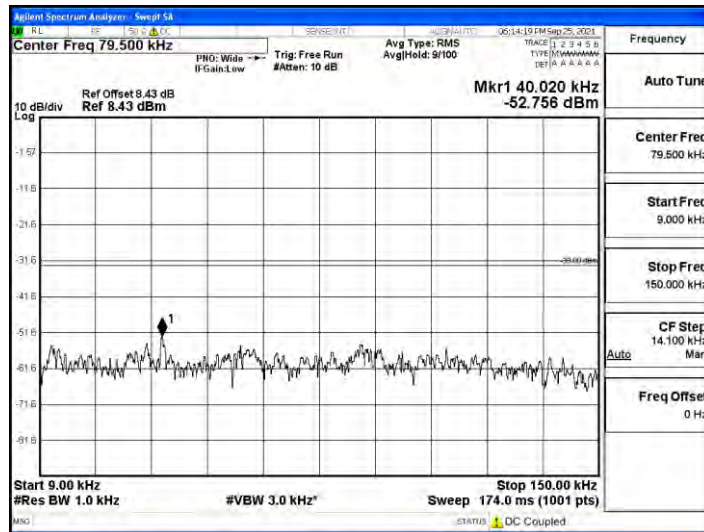
(Channel Bandwidth: 15 MHz)_LCH_16QAM



(Channel Bandwidth: 15 MHz)_MCH_16QAM

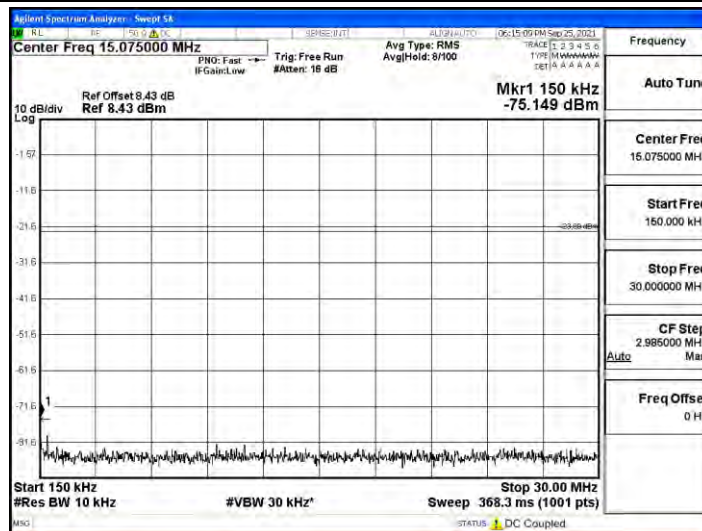
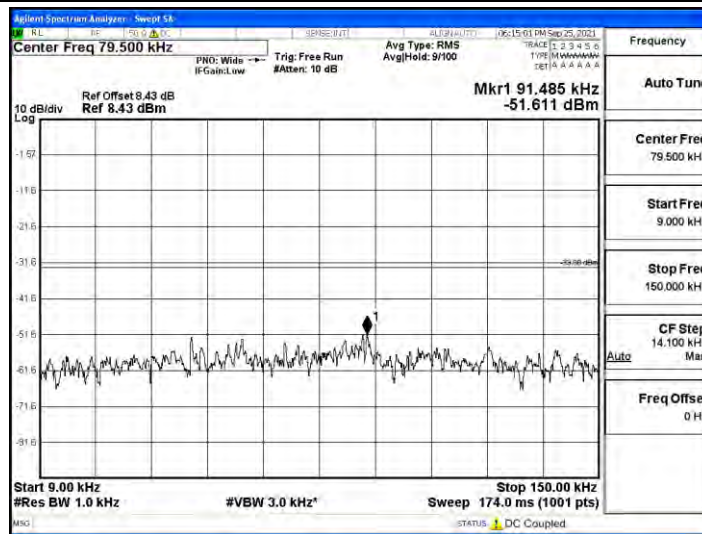


(Channel Bandwidth: 15 MHz)_HCH_16QAM

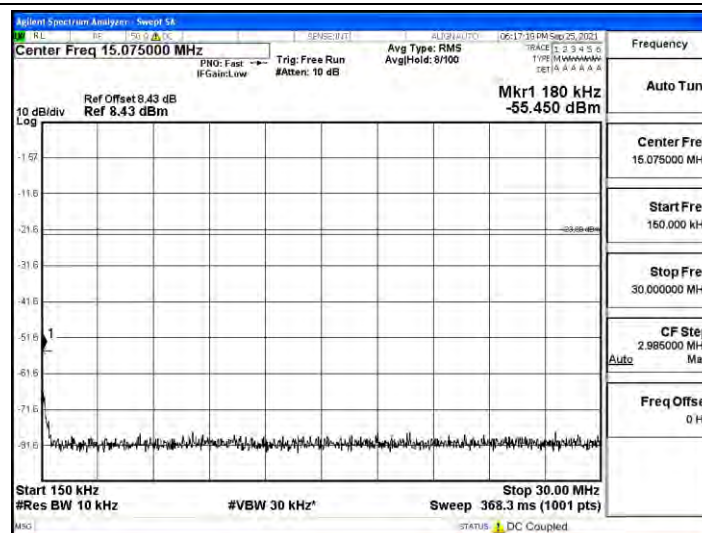
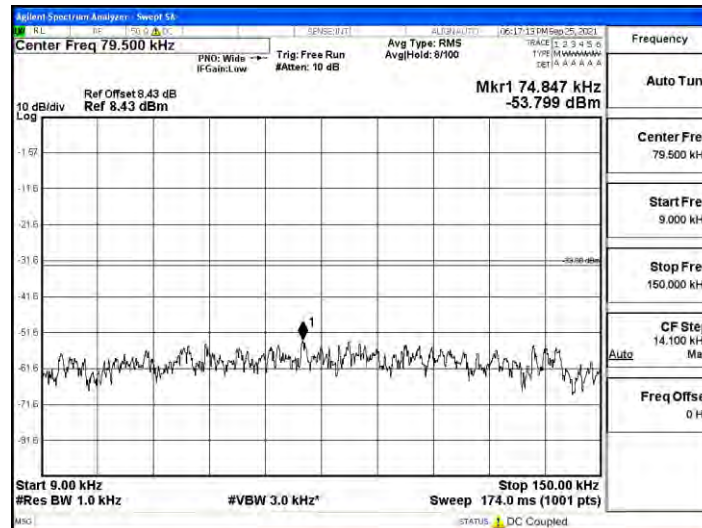


Channel Bandwidth: 20 MHz

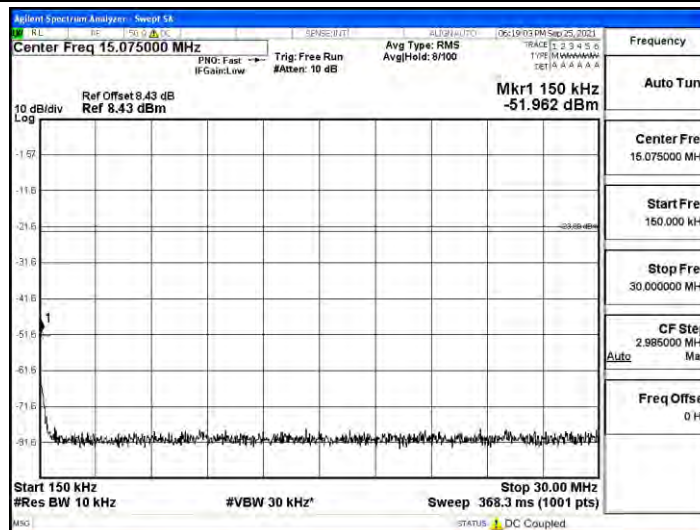
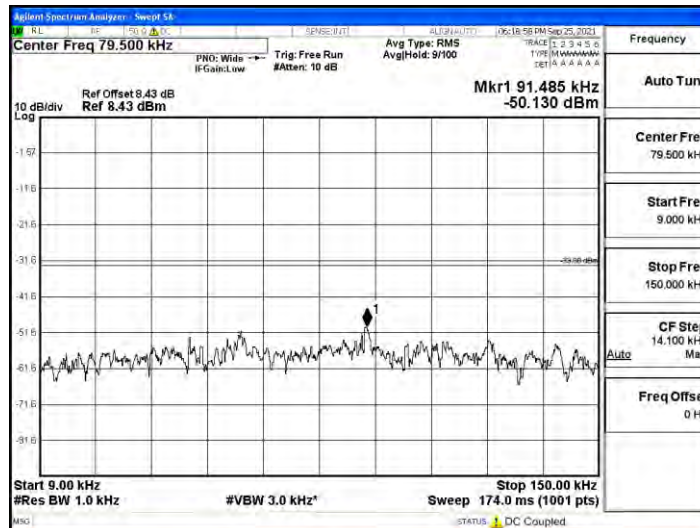
Channel Bandwidth: 20 MHz_LCH_QPSK



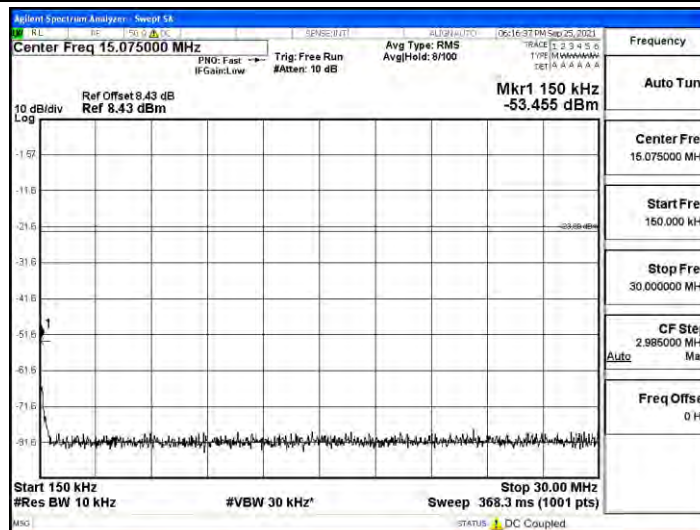
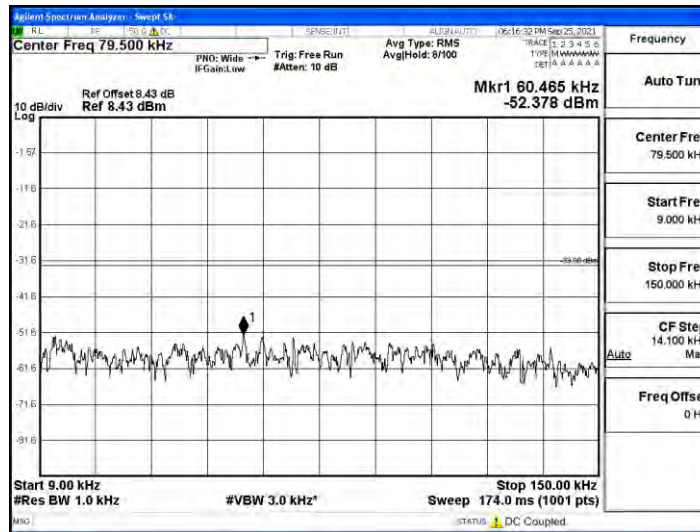
Channel Bandwidth: 20 MHz_MCH_QPSK



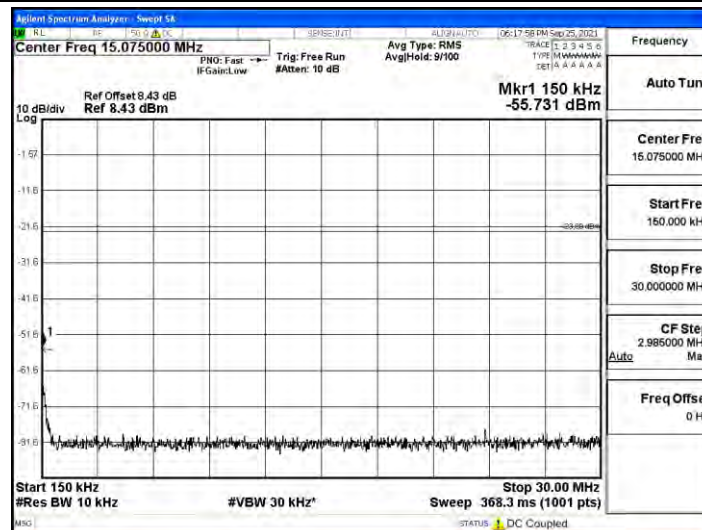
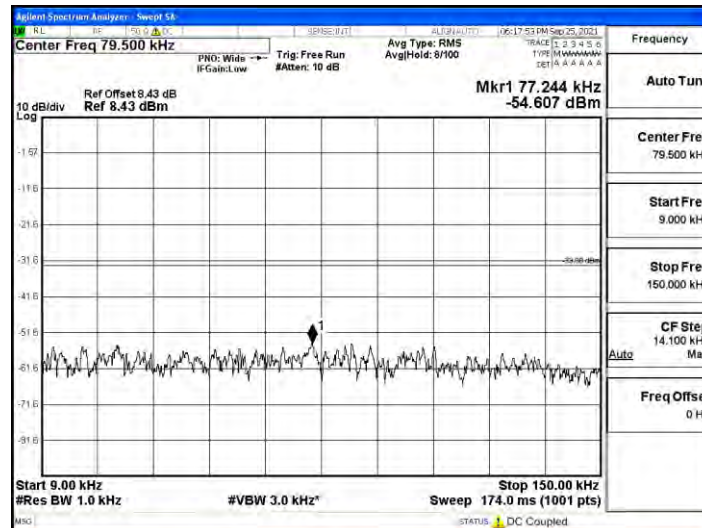
Channel Bandwidth: 20 MHz_HCH_QPSK



Channel Bandwidth: 20 MHz_LCH_16QAM



Channel Bandwidth: 20 MHz_MCH_16QAM



Channel Bandwidth: 20 MHz_HCH_16QAM

