

Appendix for Band 13

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.61	PASS
		1	12	24.18	PASS
		1	24	23.79	PASS
		12	0	22.54	PASS
		12	6	22.66	PASS
		12	13	22.58	PASS
		25	0	22.55	PASS
	MCH	1	0	23.52	PASS
		1	12	23.86	PASS
		1	24	23.71	PASS
		12	0	22.45	PASS
		12	6	22.60	PASS
		12	13	22.65	PASS
		25	0	22.50	PASS
	HCH	1	0	23.49	PASS
		1	12	23.46	PASS
		1	24	23.37	PASS
		12	0	22.64	PASS
		12	6	22.58	PASS
		12	13	22.51	PASS
		25	0	22.61	PASS
16QAM	LCH	1	0	22.23	PASS
		1	12	22.74	PASS
		1	24	22.40	PASS
		12	0	21.51	PASS
		12	6	21.57	PASS
		12	13	21.59	PASS
		25	0	21.65	PASS
	MCH	1	0	22.49	PASS
		1	12	22.70	PASS
		1	24	22.62	PASS
		12	0	21.38	PASS

		12	6	21.48	PASS
		12	13	21.69	PASS
		25	0	21.70	PASS
	HCH	1	0	22.25	PASS
		1	12	22.33	PASS
		1	24	21.70	PASS
		12	0	21.42	PASS
		12	6	21.33	PASS
		12	13	21.29	PASS
		25	0	21.63	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	MCH	1	0	23.62	PASS
		1	24	23.81	PASS
		1	49	23.46	PASS
		25	0	22.58	PASS
		25	12	22.71	PASS
		25	25	22.52	PASS
		50	0	22.56	PASS
16QAM	MCH	1	0	22.84	PASS
		1	24	23.46	PASS
		1	49	22.81	PASS
		25	0	21.57	PASS
		25	12	21.67	PASS
		25	25	21.54	PASS
		50	0	21.56	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.17	<13	PASS
		1	12	3.99	<13	PASS
		1	24	3.68	<13	PASS
		12	0	4.78	<13	PASS
		12	6	4.66	<13	PASS
		12	13	4.6	<13	PASS
		25	0	4.99	<13	PASS
	MCH	1	0	4.22	<13	PASS
		1	12	3.57	<13	PASS
		1	24	3.55	<13	PASS
		12	0	4.66	<13	PASS
		12	6	4.42	<13	PASS
		12	13	4.22	<13	PASS
		25	0	4.75	<13	PASS
	HCH	1	0	3.84	<13	PASS
		1	12	3.34	<13	PASS
		1	24	3.6	<13	PASS
		12	0	4.32	<13	PASS
		12	6	4.1	<13	PASS
		12	13	4.16	<13	PASS
		25	0	4.41	<13	PASS
16QAM	LCH	1	0	5.22	<13	PASS
		1	12	5.01	<13	PASS
		1	24	4.55	<13	PASS
		12	0	5.75	<13	PASS
		12	6	5.6	<13	PASS
		12	13	5.62	<13	PASS
		25	0	5.81	<13	PASS
	MCH	1	0	5.03	<13	PASS
		1	12	4.4	<13	PASS
		1	24	4.46	<13	PASS
		12	0	5.6	<13	PASS

		12	6	5.41	<13	PASS
		12	13	5.24	<13	PASS
		25	0	5.62	<13	PASS
	HCH	1	0	4.73	<13	PASS
		1	12	4.49	<13	PASS
		1	24	4.71	<13	PASS
		12	0	5.28	<13	PASS
		12	6	5.16	<13	PASS
		12	13	5.07	<13	PASS
		25	0	5.24	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	4.26	<13	PASS
		1	24	3.62	<13	PASS
		1	49	3.51	<13	PASS
		25	0	4.71	<13	PASS
		25	12	4.48	<13	PASS
		25	25	4.22	<13	PASS
		50	0	4.76	<13	PASS
16QAM	MCH	1	0	5.01	<13	PASS
		1	24	4.18	<13	PASS
		1	49	4.24	<13	PASS
		25	0	5.7	<13	PASS
		25	12	5.43	<13	PASS
		25	25	5.19	<13	PASS
		50	0	5.65	<13	PASS

Test Graphs

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)_LCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



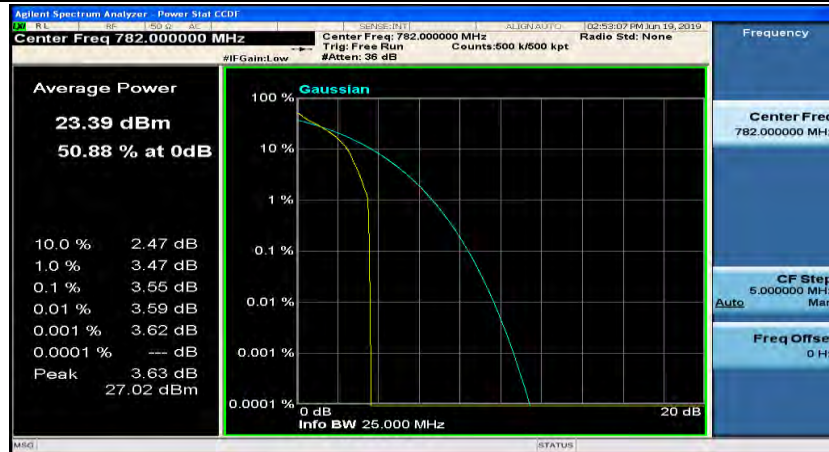
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



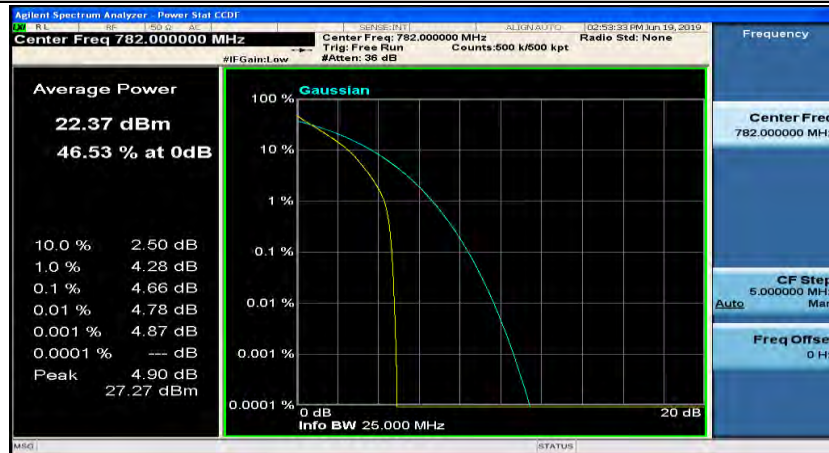
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



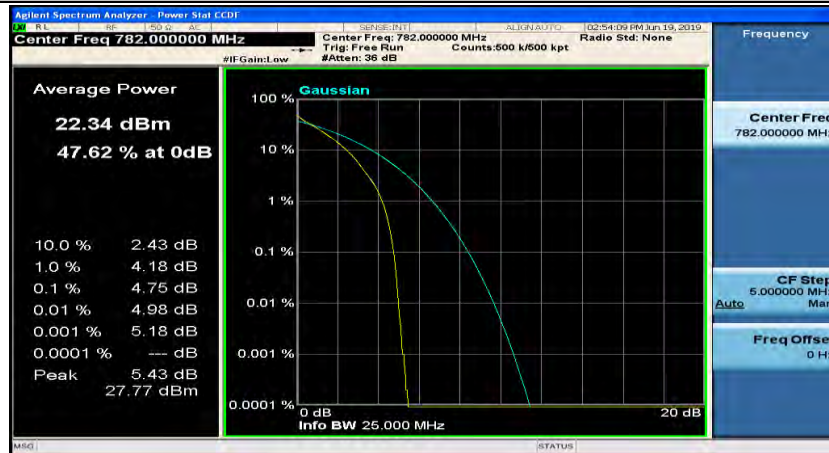
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



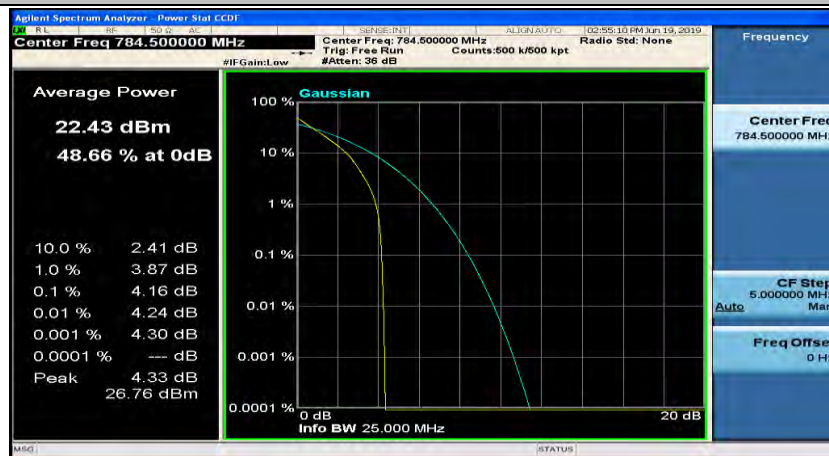
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



(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)_LCH_16QAM_12RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



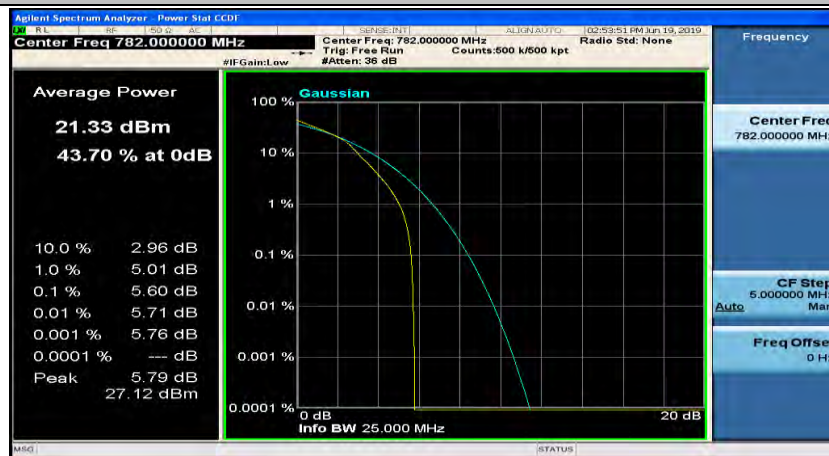
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(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



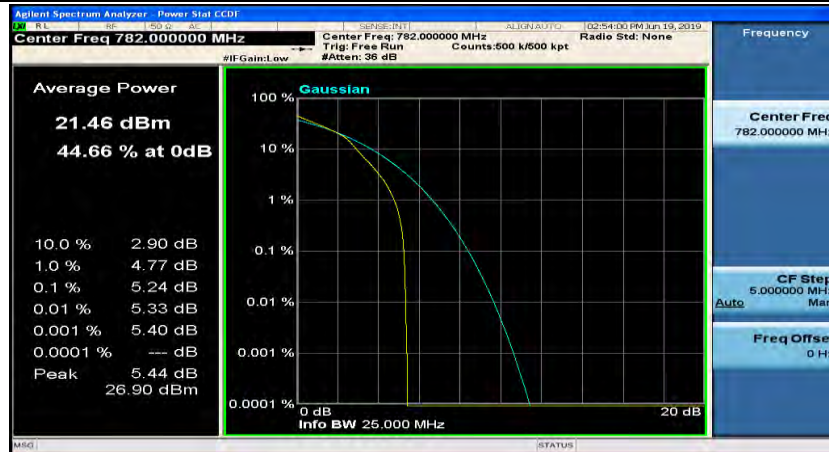
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



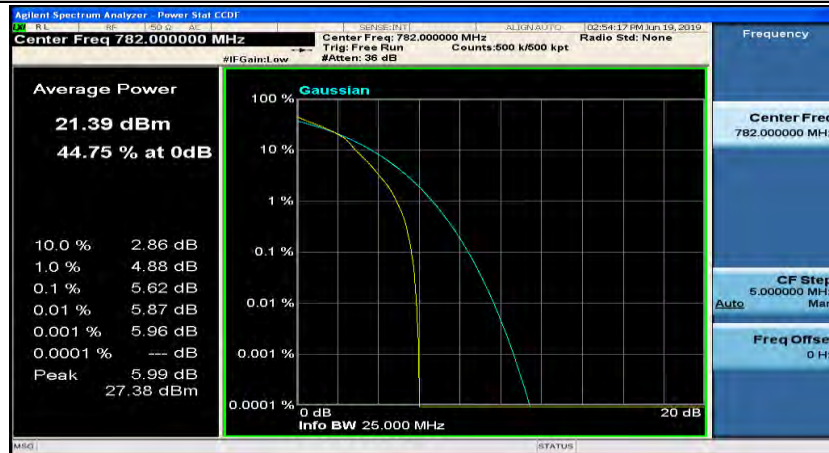
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



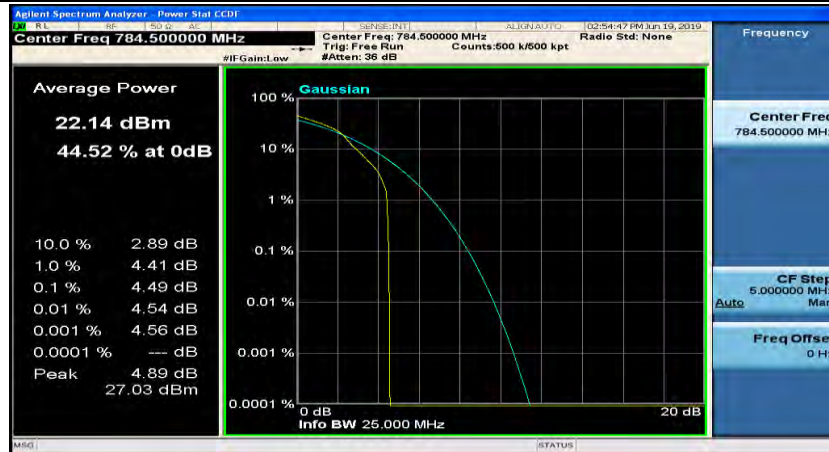
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



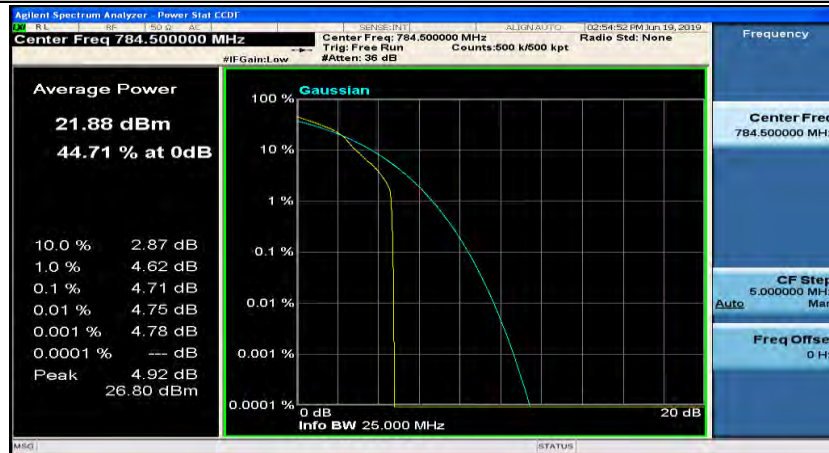
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



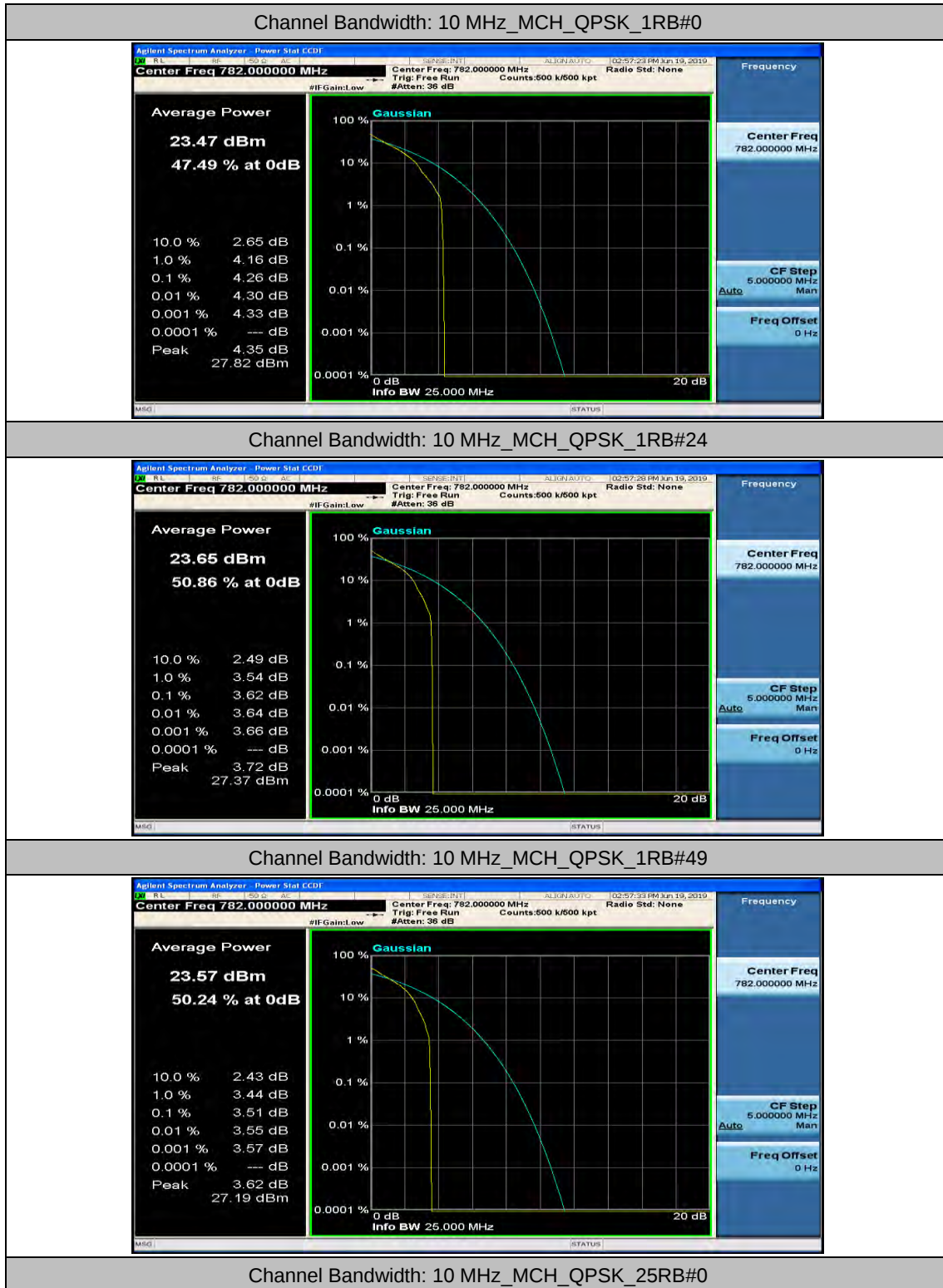
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

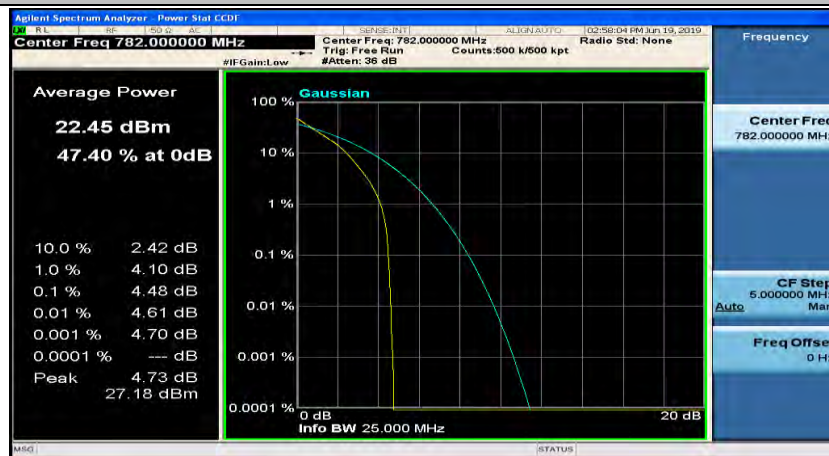


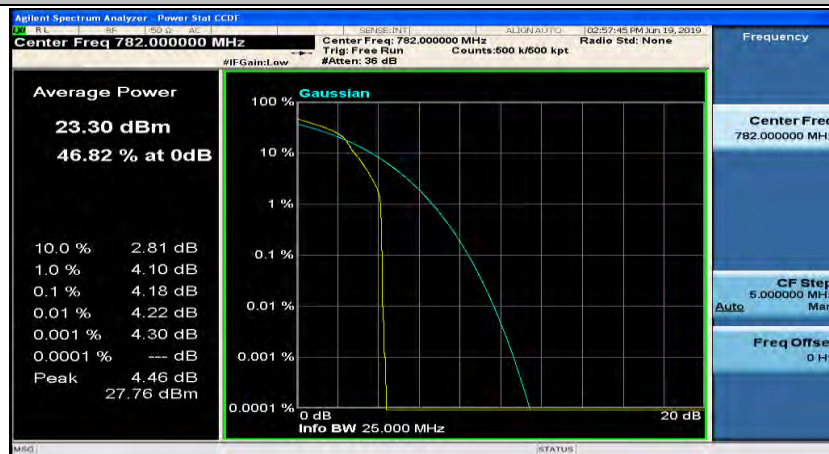
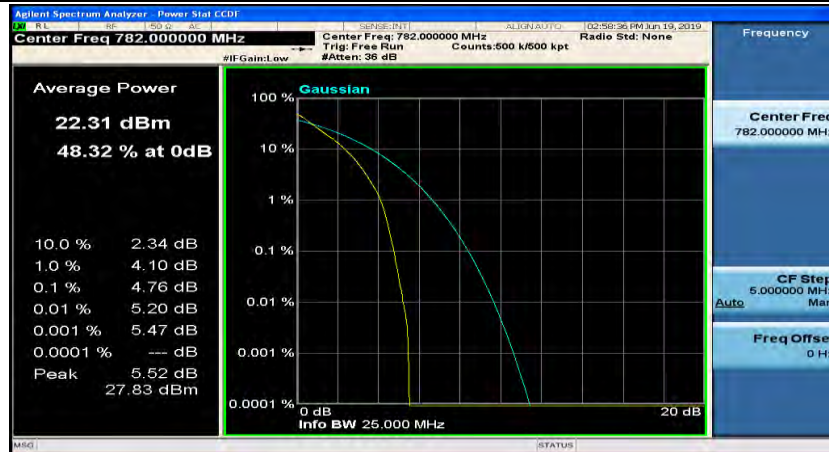
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

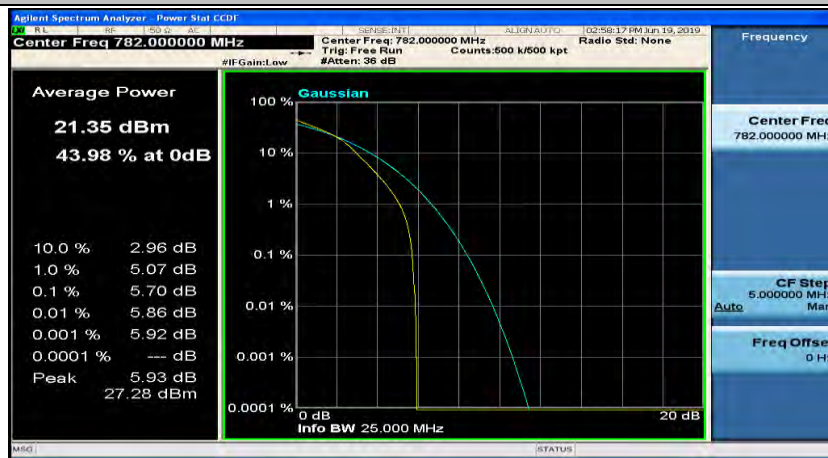


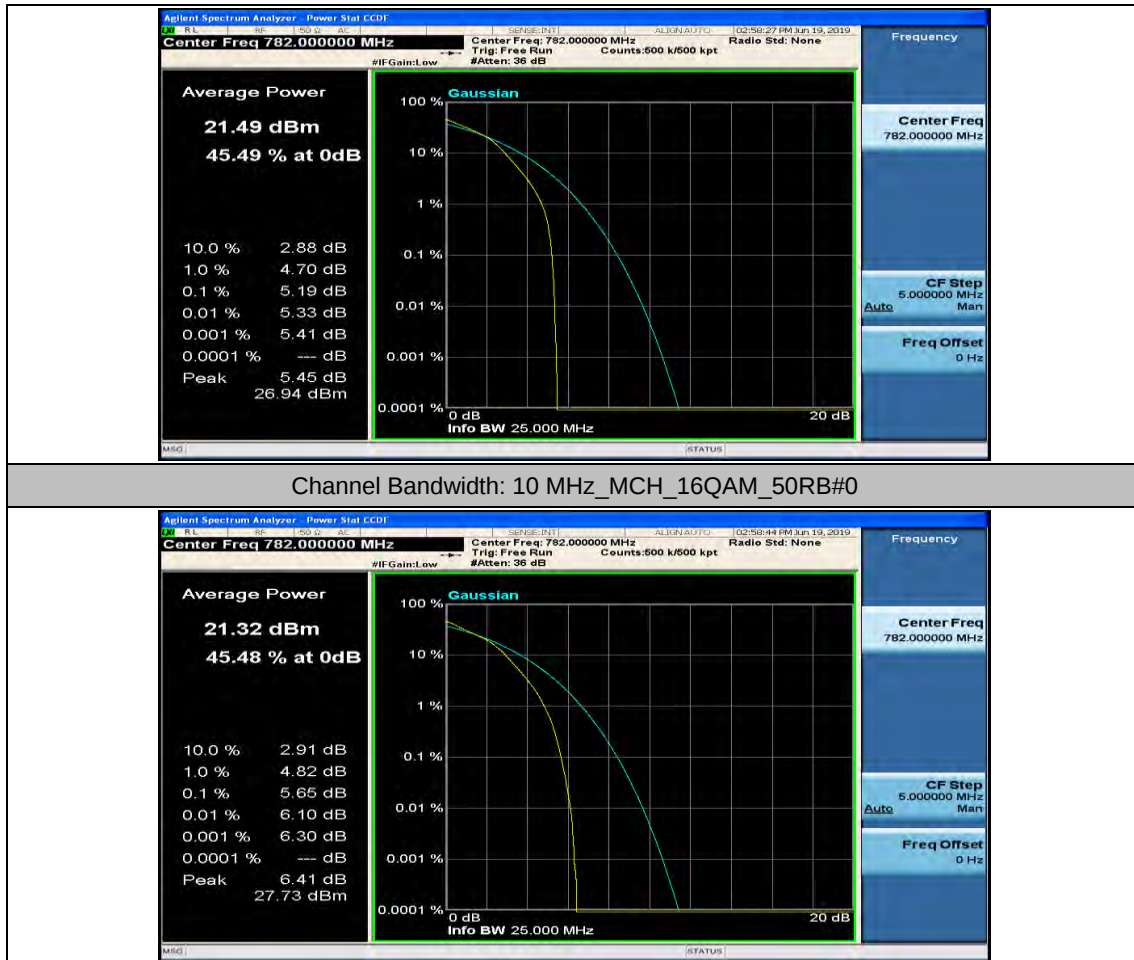
Channel Bandwidth: 10 MHz











Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

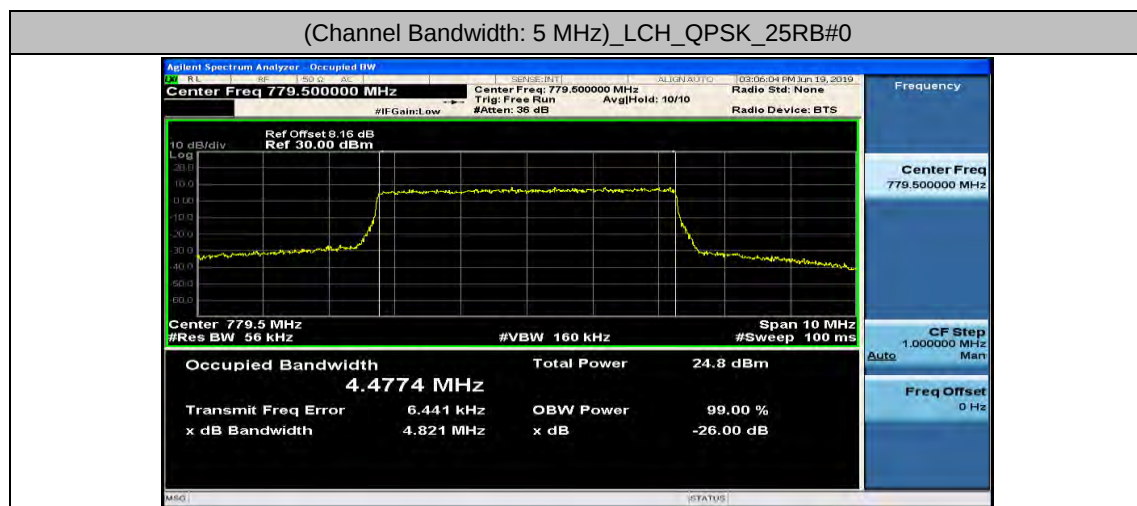
Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4774	4.821	PASS
	MCH	25	0	4.4666	4.791	PASS
	HCH	25	0	4.4723	4.801	PASS
16QAM	LCH	25	0	4.4730	4.806	PASS
	MCH	25	0	4.4688	4.835	PASS
	HCH	25	0	4.4649	4.815	PASS

Channel Bandwidth: 10 MHz

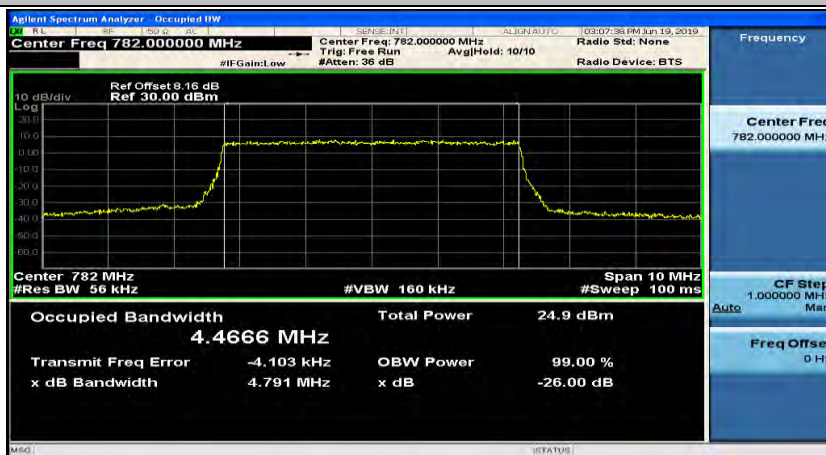
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	MCH	50	0	8.8971	9.490	PASS
16QAM	MCH	50	0	8.9114	9.404	PASS

Test Graphs

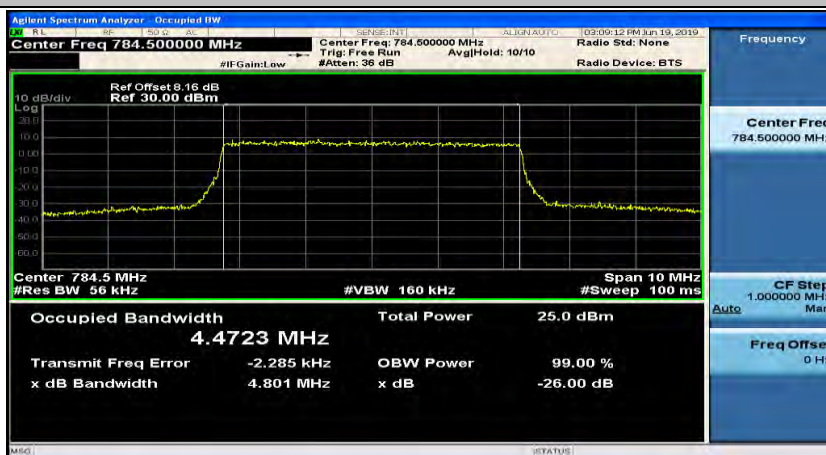
Channel Bandwidth: 5 MHz



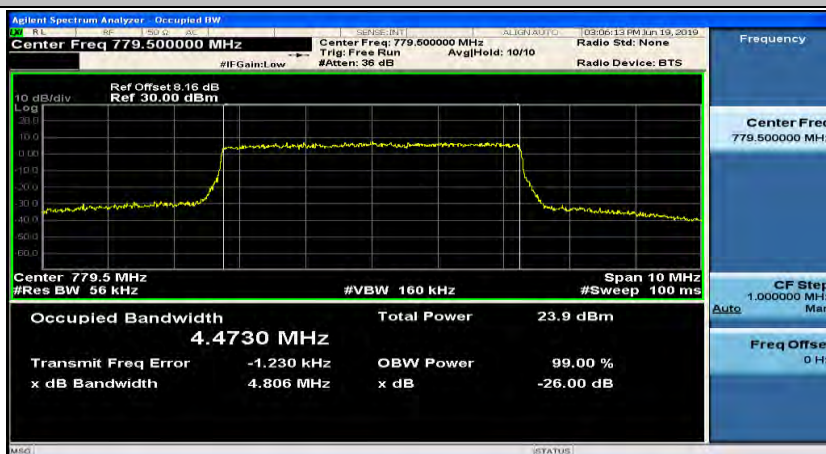
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



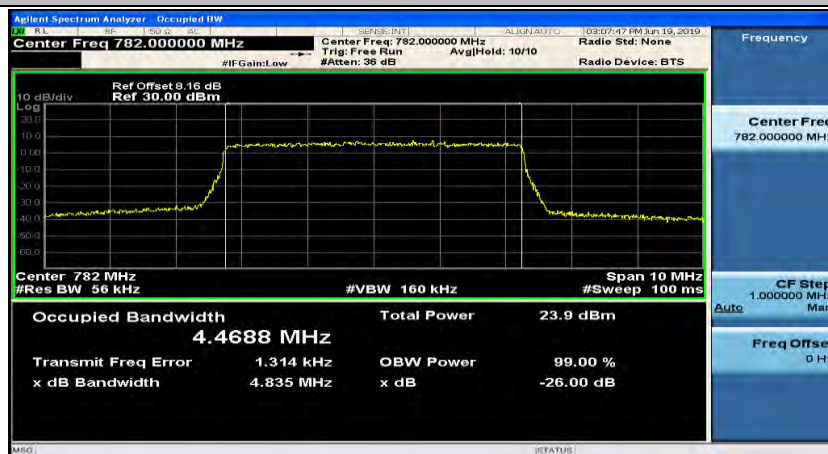
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



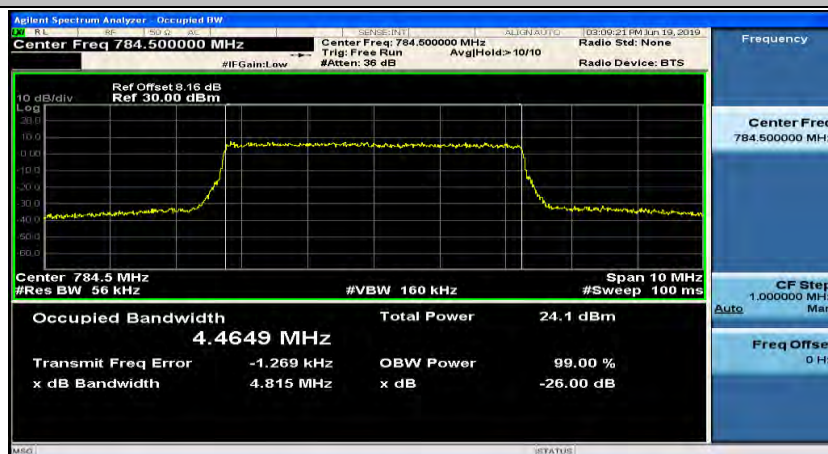
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

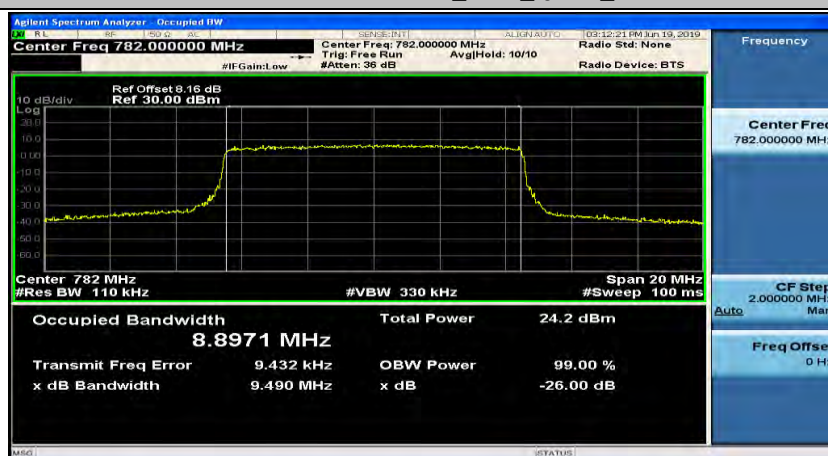


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

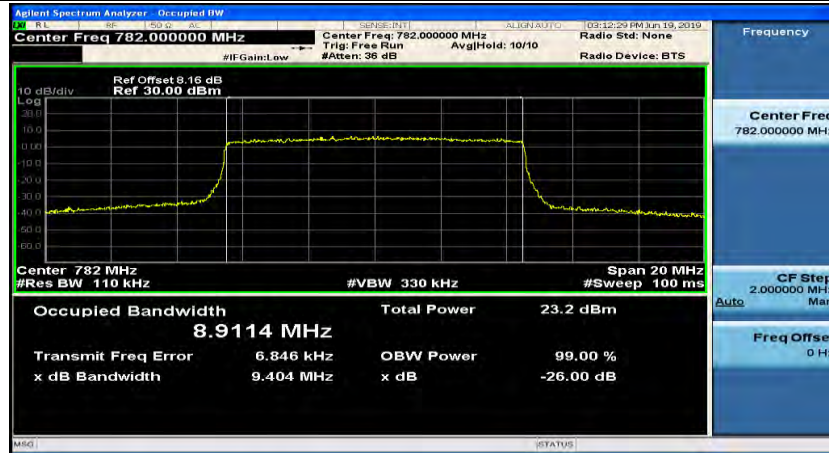


Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0

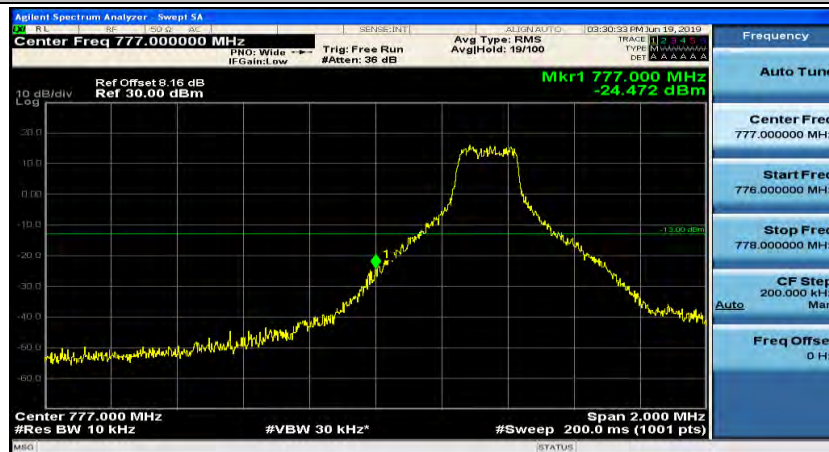


Appendix D: Band Edge

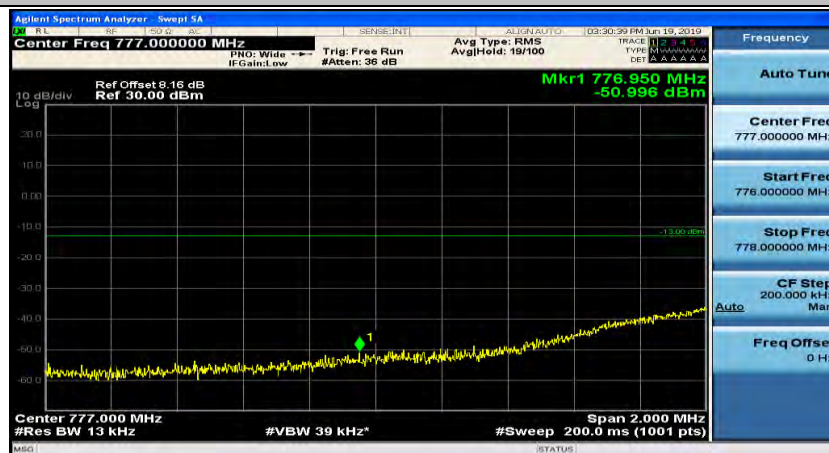
Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



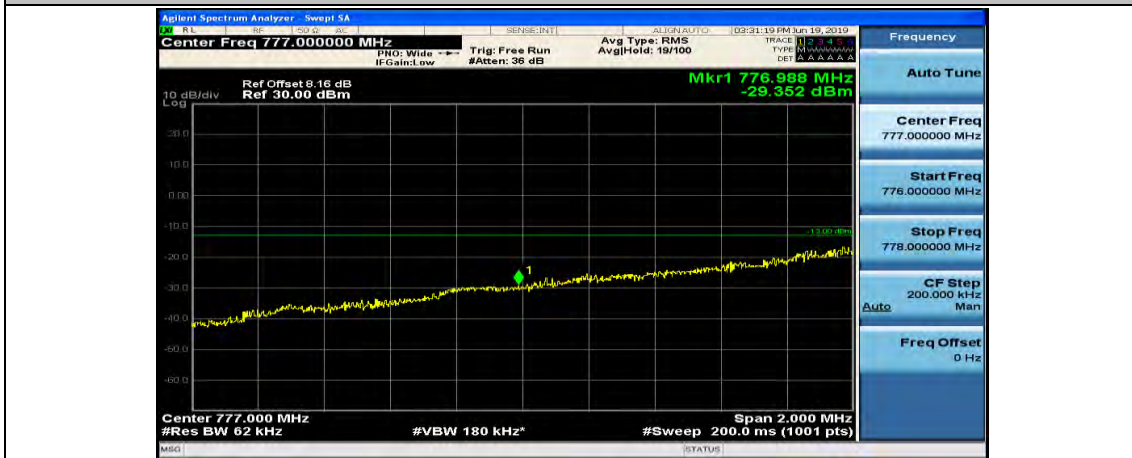
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



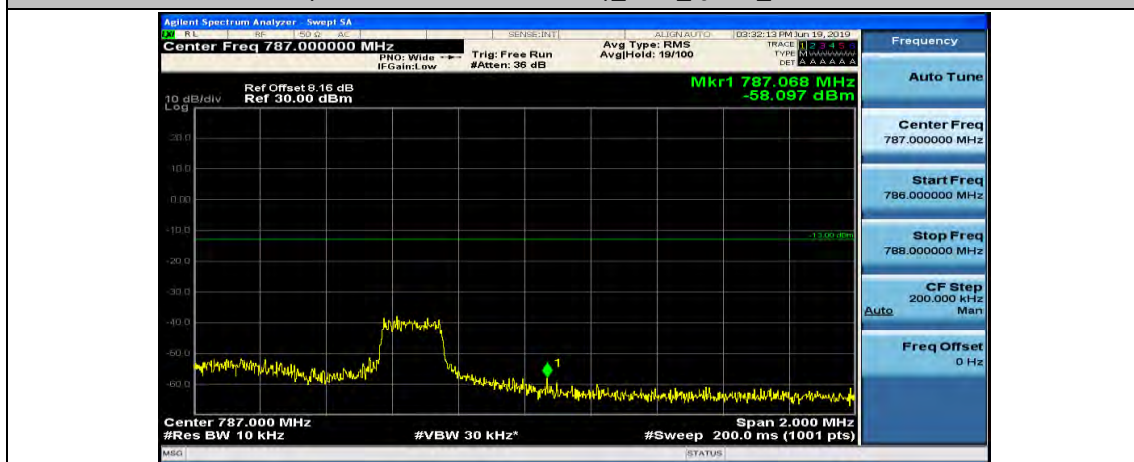
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



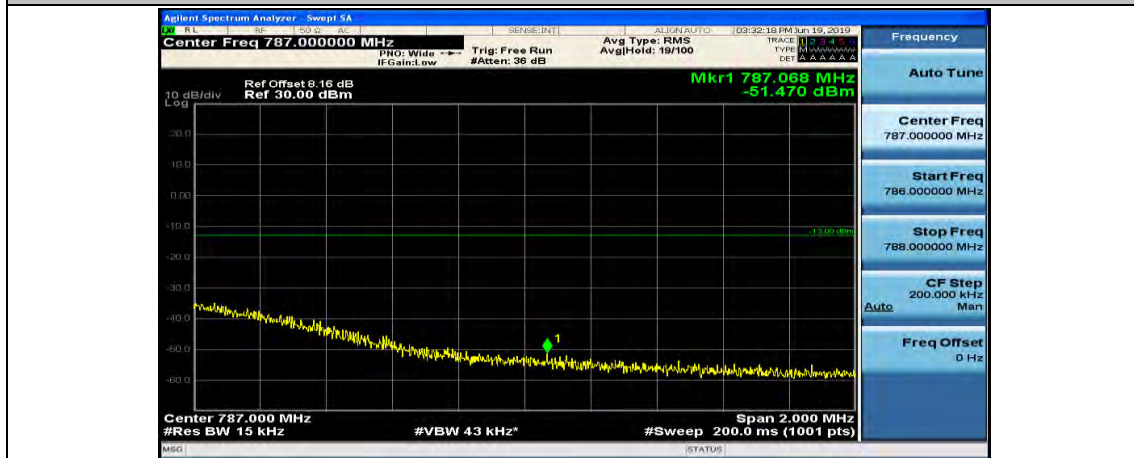
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



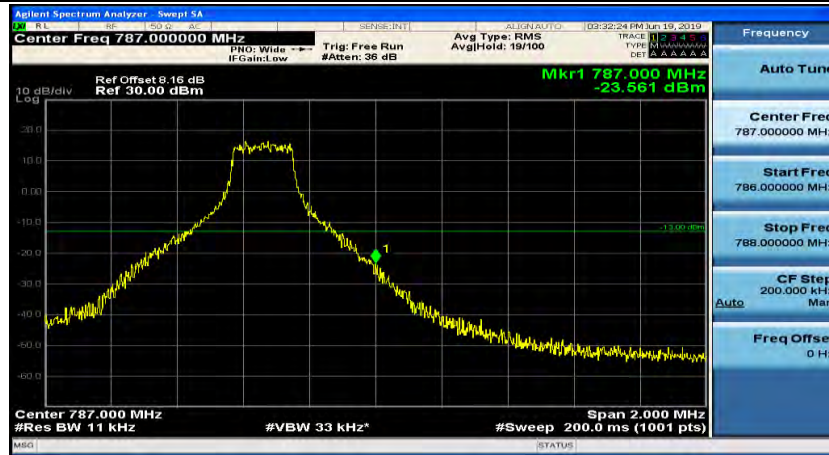
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



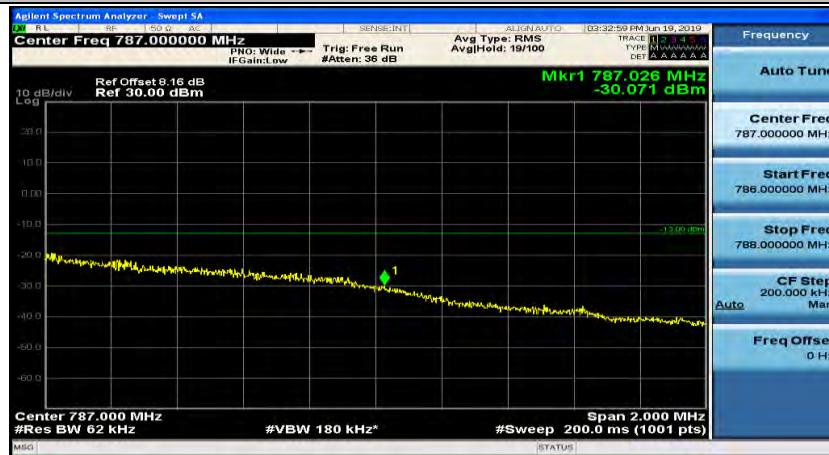
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(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



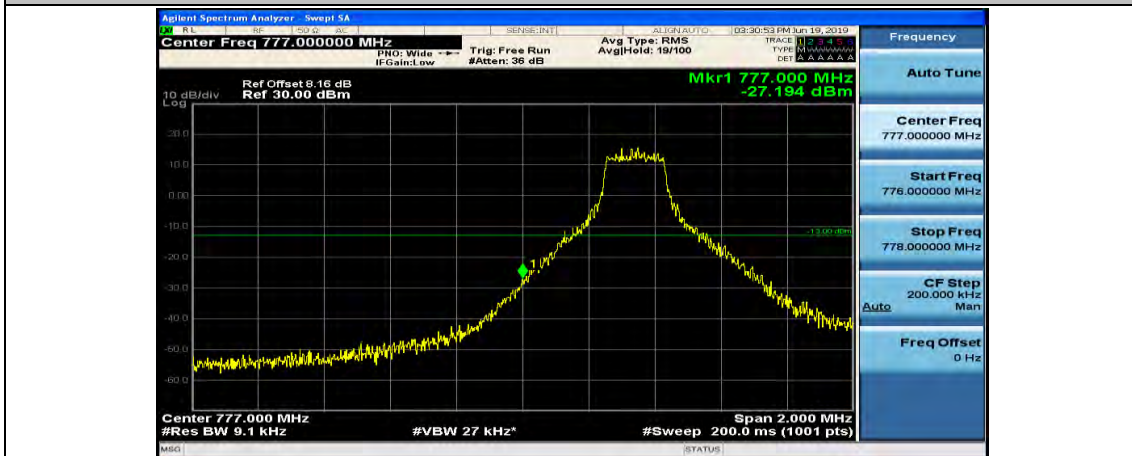
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



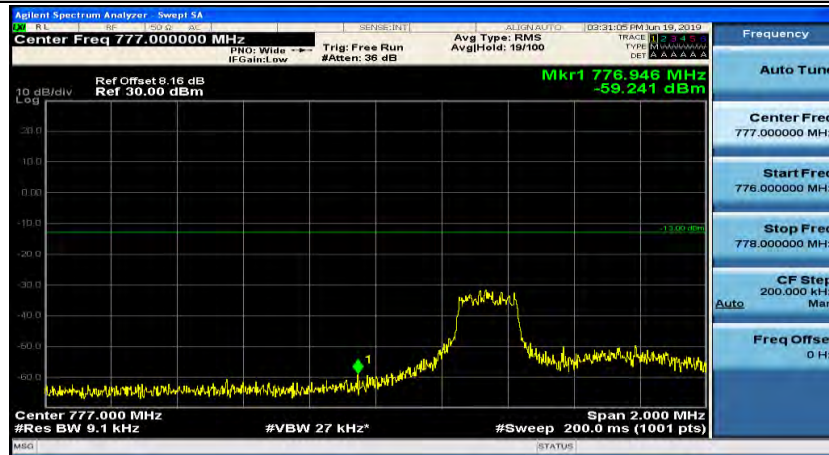
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



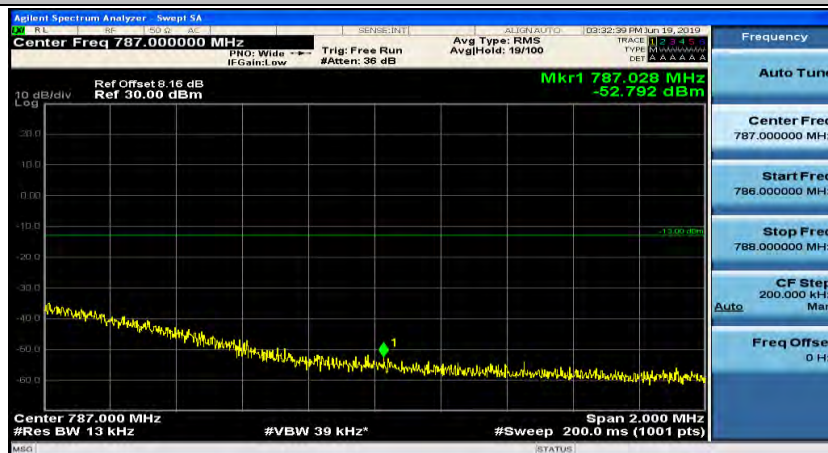
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



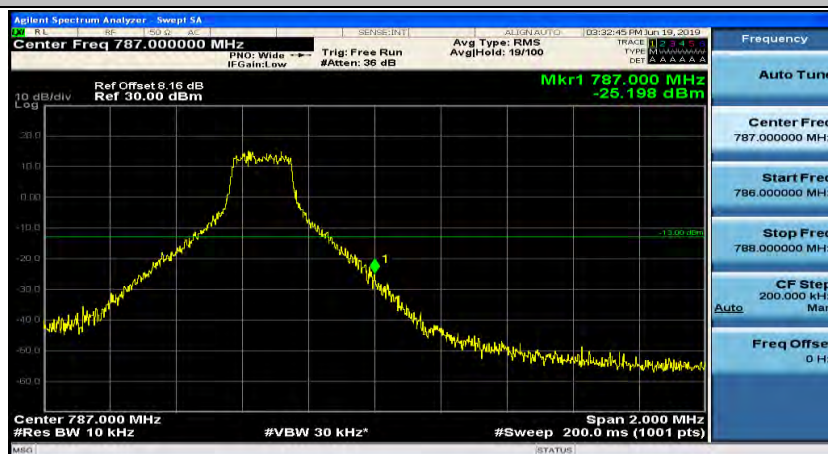
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



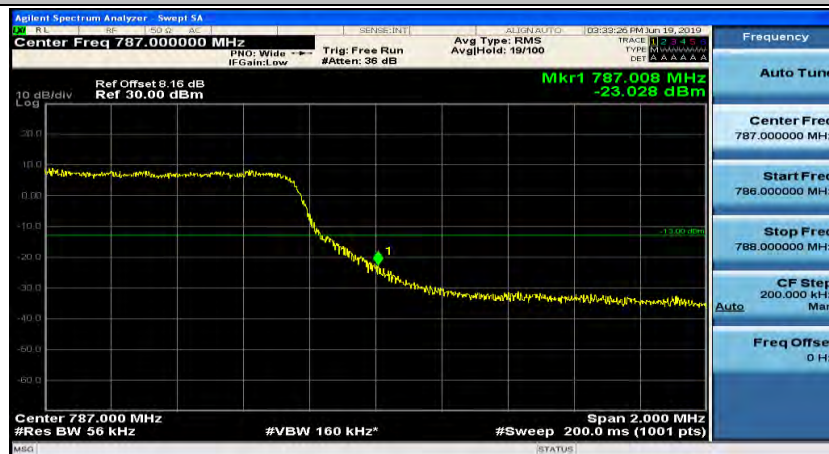
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



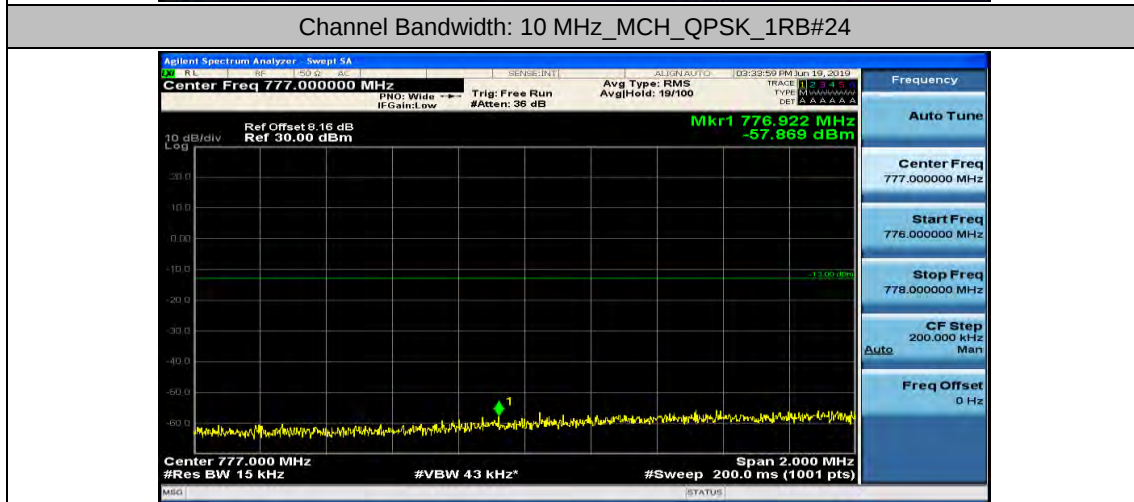
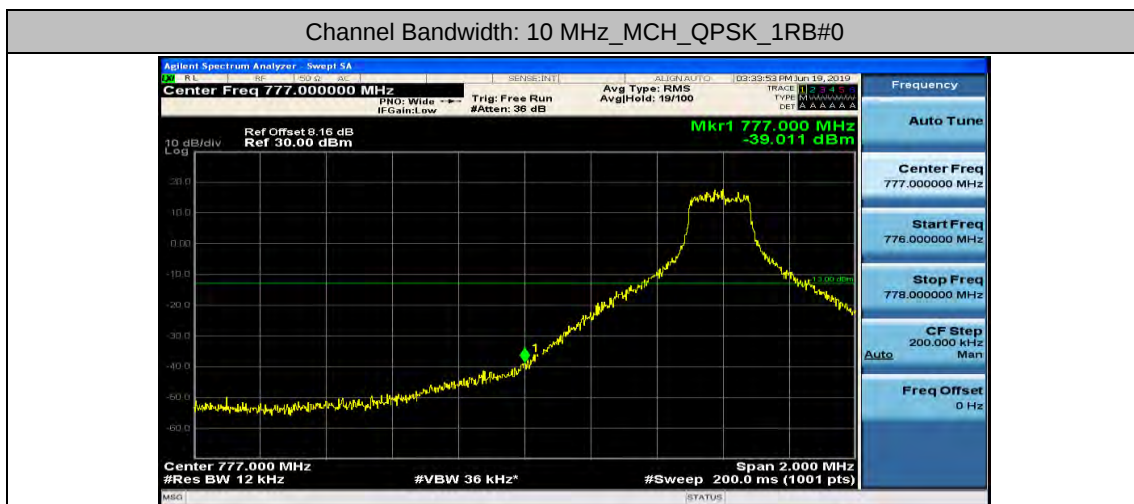
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13



(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz



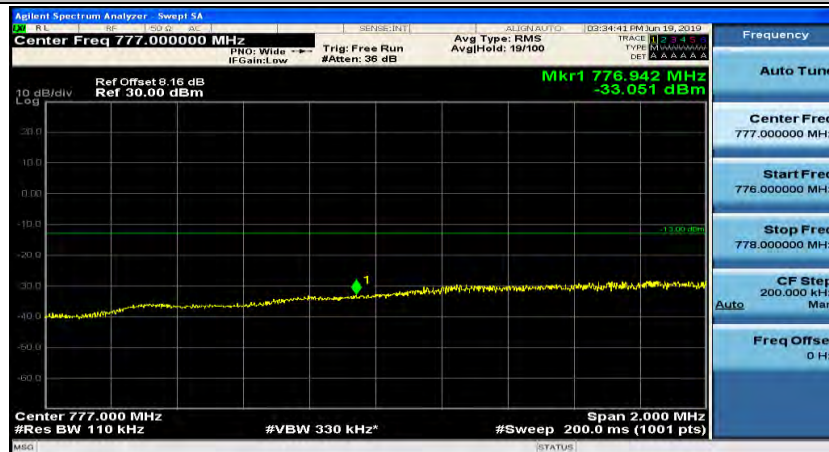
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12



Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



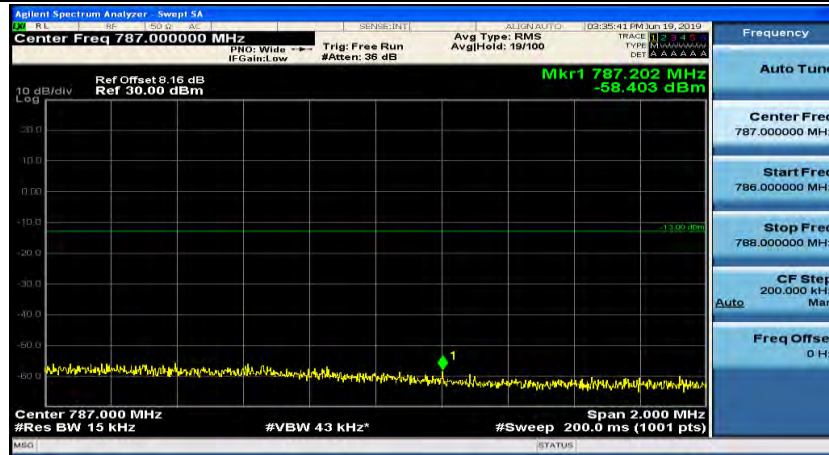
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



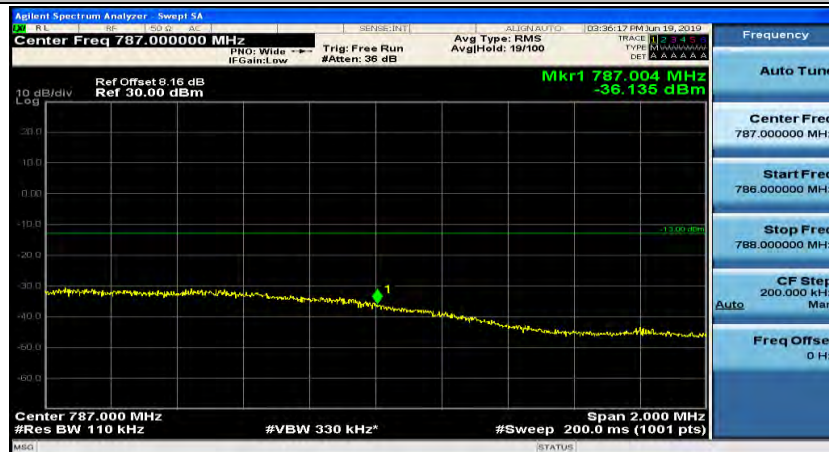
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24



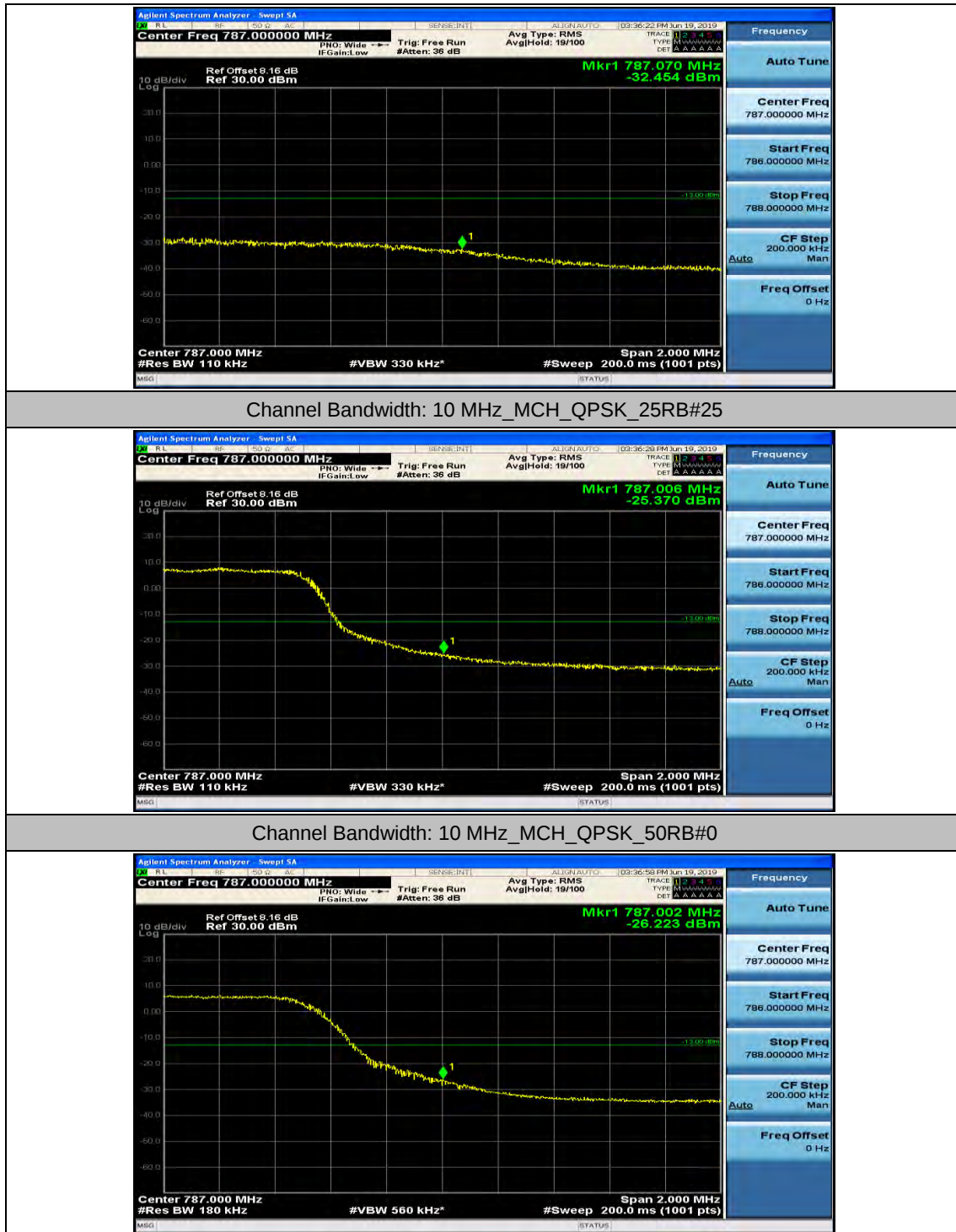
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0



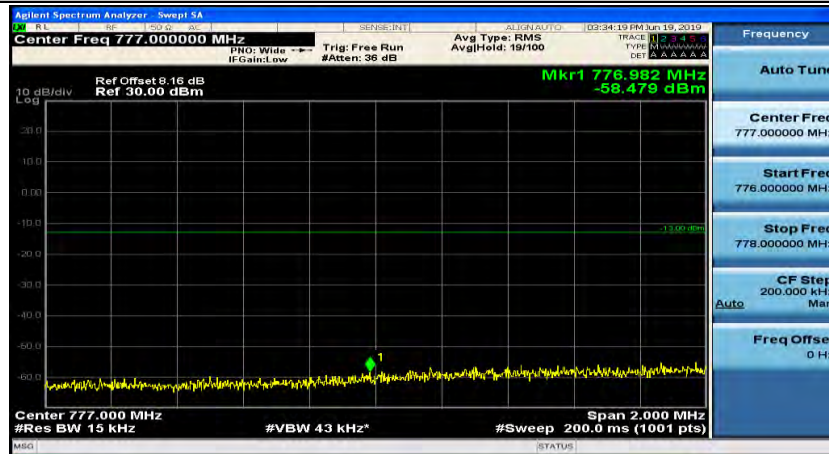
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12



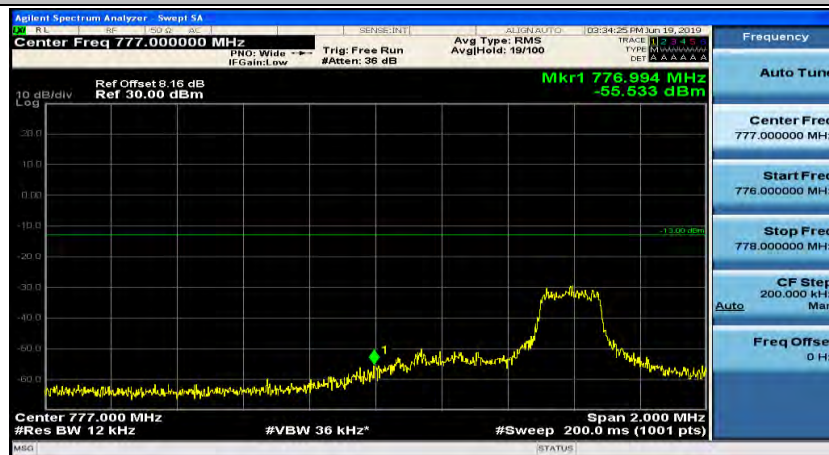
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24



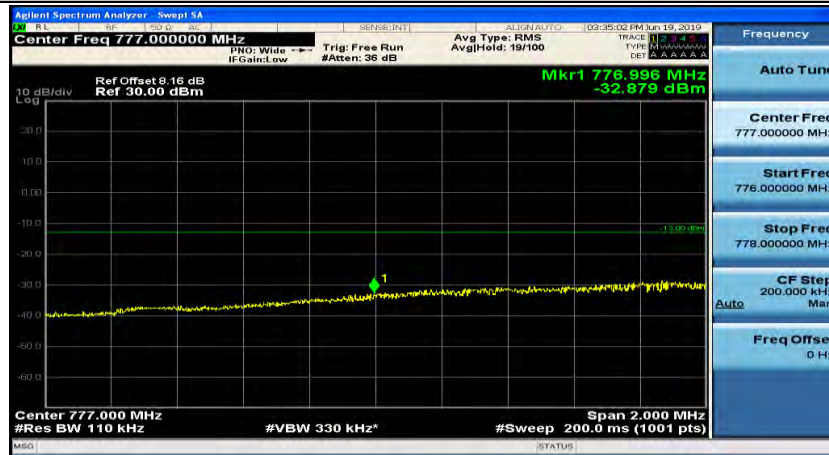
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49



Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25



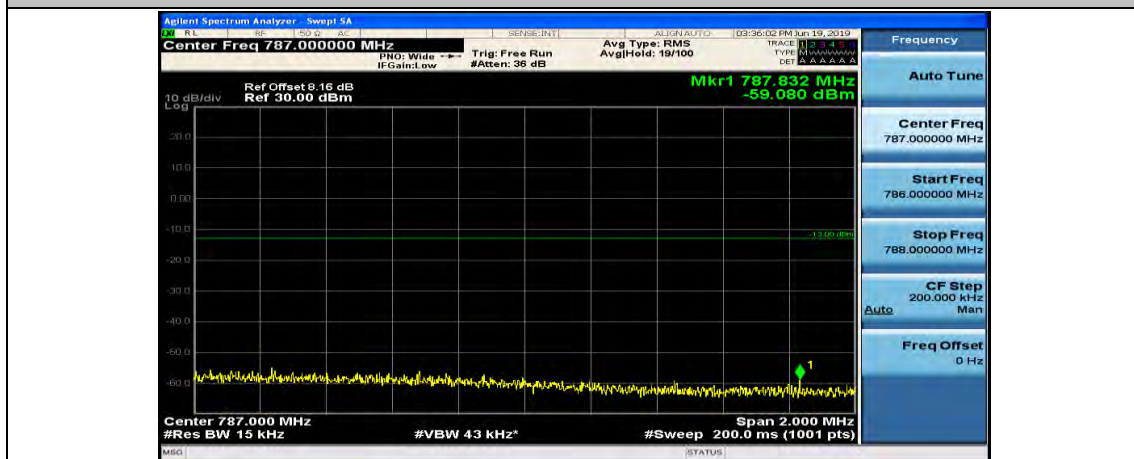
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Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24



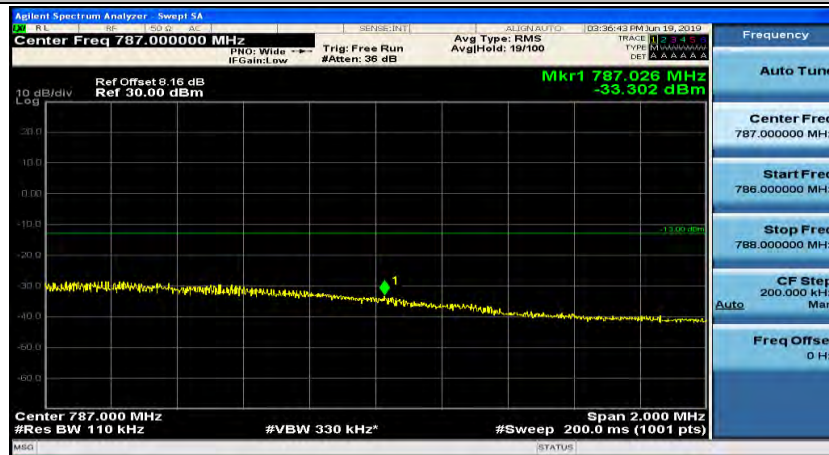
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49



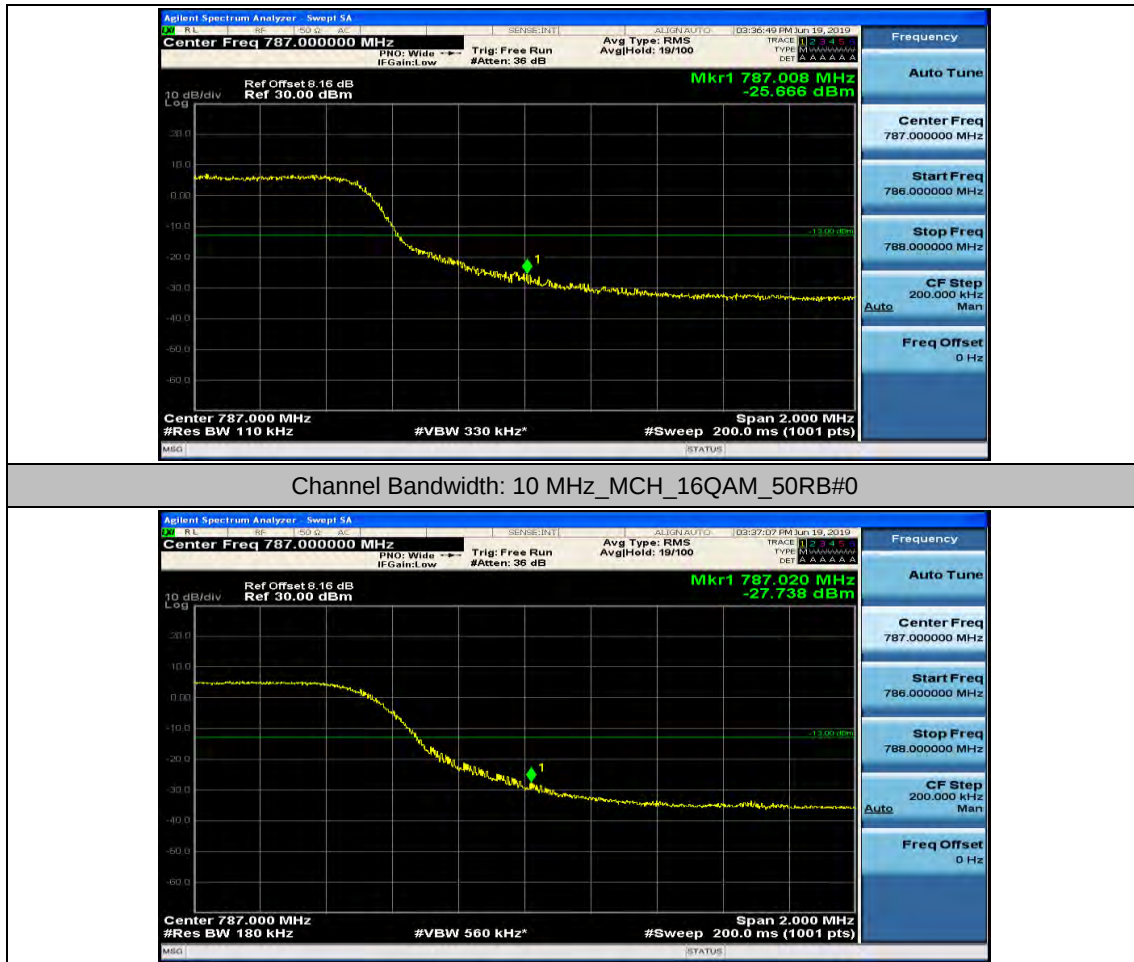
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12



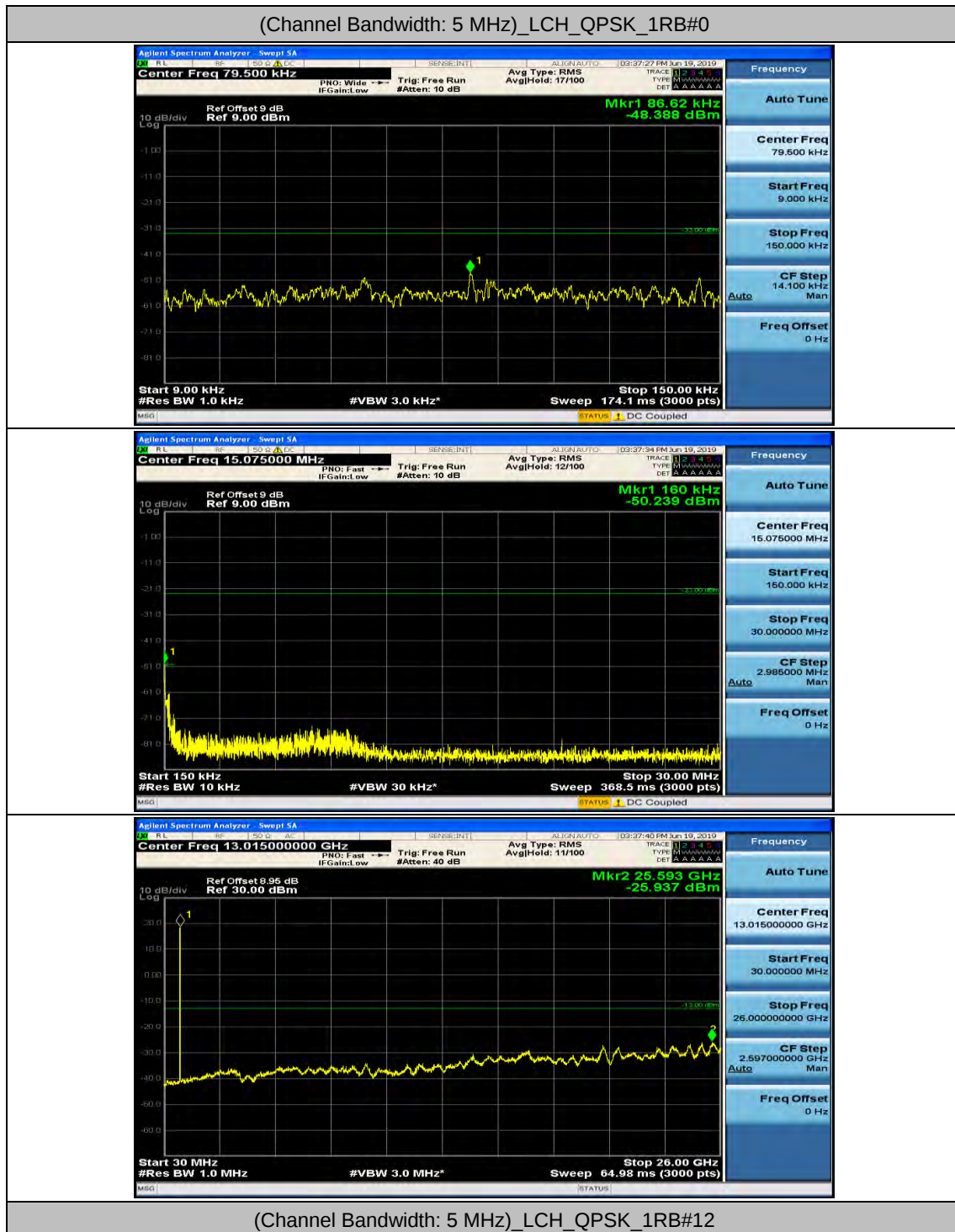
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25

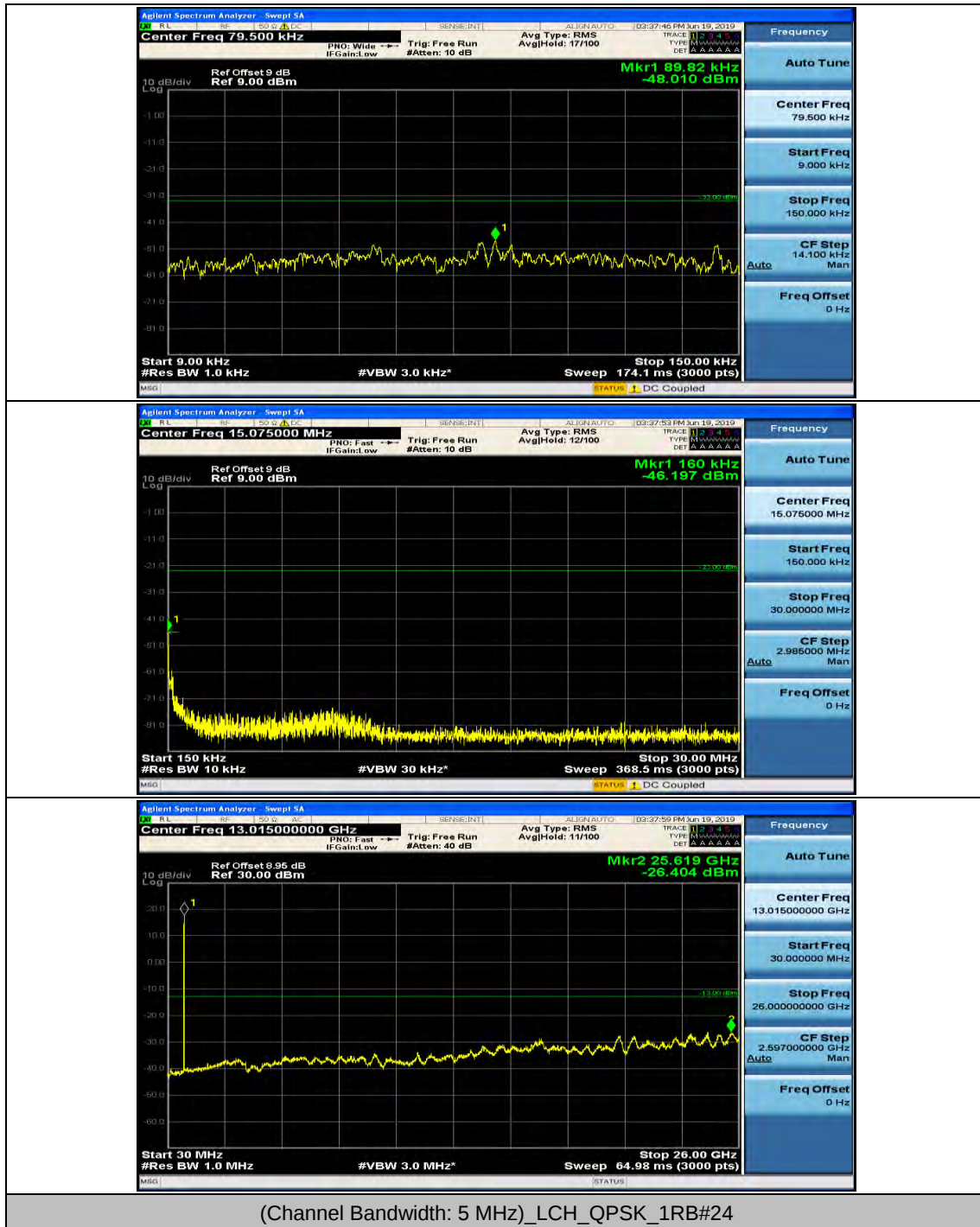


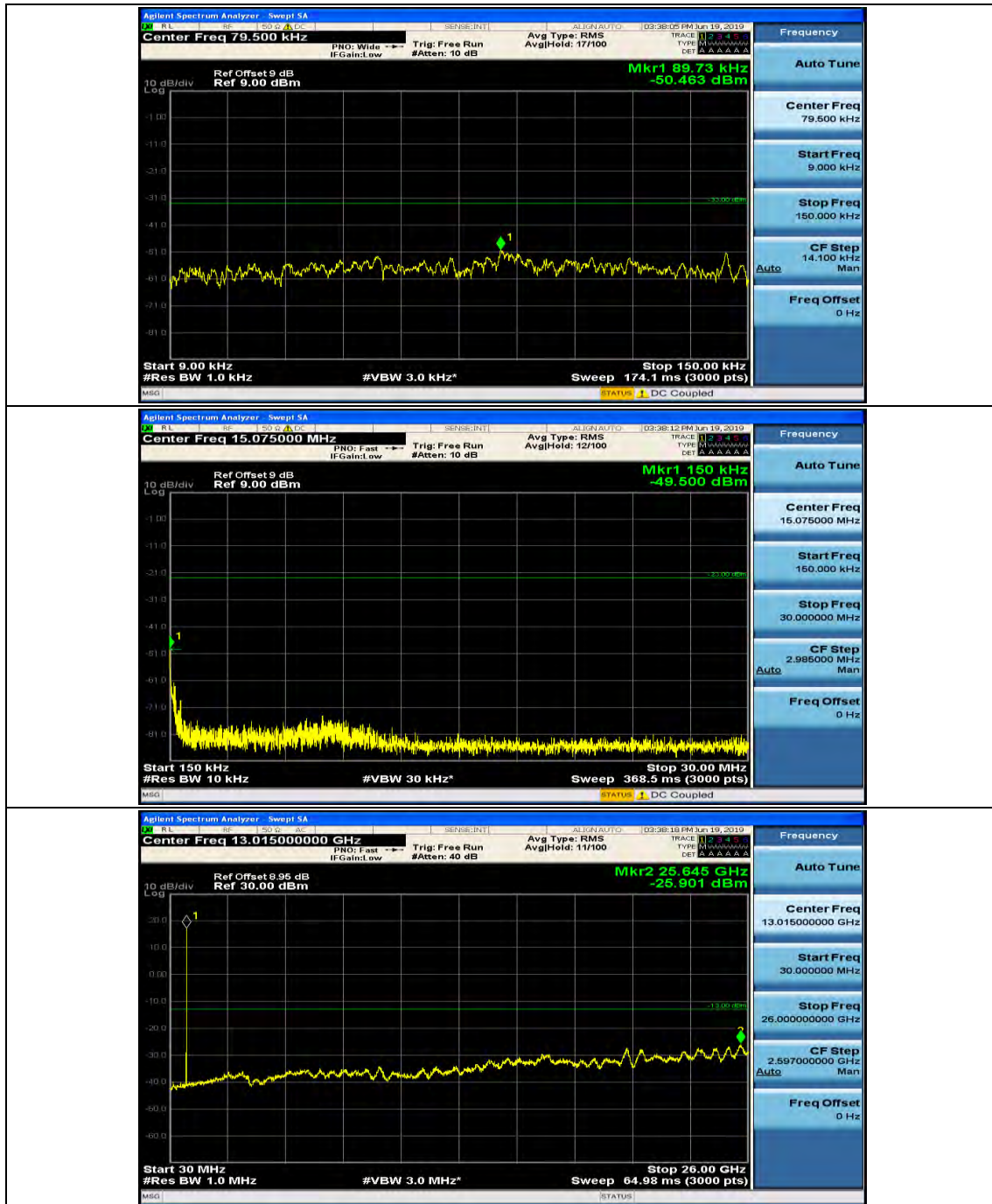
Appendix E: Conducted Spurious Emission

Test Graphs

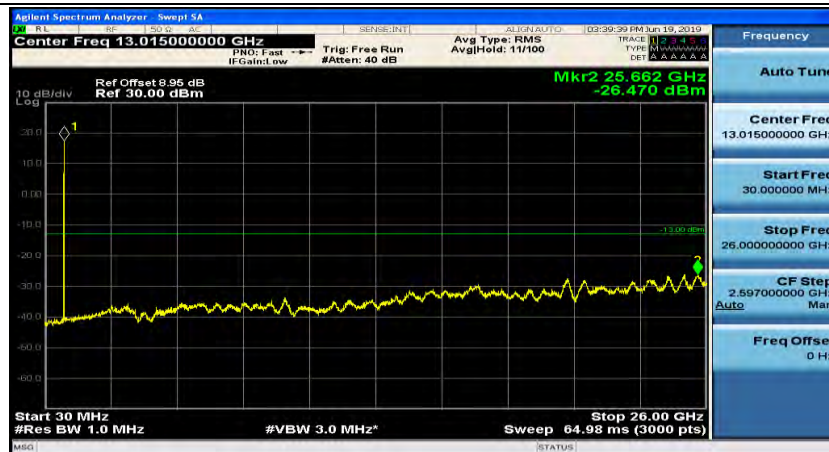
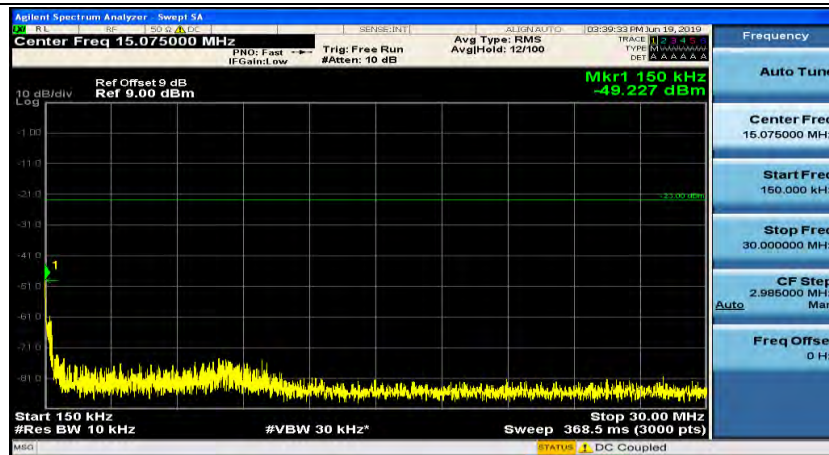
Channel Bandwidth: 5 MHz







(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12