

Appendix for Band 40(2305-2360MHz)

Product Name: TD-LTE Wireless Data Terminal

Model No: TC50

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	21.55	PASS
		1	12	21.81	PASS
		1	24	21.50	PASS
		12	0	20.57	PASS
		12	6	20.59	PASS
		12	13	20.53	PASS
		25	0	20.59	PASS
	MCH	1	0	21.52	PASS
		1	12	21.82	PASS
		1	24	21.50	PASS
		12	0	20.55	PASS
		12	6	20.55	PASS
		12	13	20.51	PASS
		25	0	20.59	PASS
	HCH	1	0	21.52	PASS
		1	12	21.78	PASS
		1	24	21.45	PASS
		12	0	20.54	PASS
		12	6	20.55	PASS
		12	13	20.50	PASS
		25	0	20.56	PASS
16QAM	LCH	1	0	20.71	PASS
		1	12	20.98	PASS
		1	24	20.66	PASS
		12	0	20.57	PASS
		12	6	20.57	PASS
		12	13	20.52	PASS

	MCH	25	0	20.51	PASS
		1	0	20.85	PASS
		1	12	21.18	PASS
		1	24	20.83	PASS
		12	0	20.60	PASS
		12	6	20.64	PASS
		12	13	20.58	PASS
		25	0	20.53	PASS
	HCH	1	0	20.78	PASS
		1	12	21.07	PASS
		1	24	20.74	PASS
		12	0	20.50	PASS
		12	6	20.50	PASS
		12	13	20.50	PASS
		25	0	20.54	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	MCH	1	0	21.83	PASS
		1	24	21.71	PASS
		1	49	21.54	PASS
		25	0	20.60	PASS
		25	12	20.63	PASS
		25	25	20.61	PASS
		50	0	20.60	PASS
16QAM	MCH	1	0	20.86	PASS
		1	24	20.92	PASS
		1	49	20.78	PASS
		25	0	20.58	PASS
		25	12	20.60	PASS
		25	25	20.55	PASS
		50	0	20.55	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	10.31	<13	PASS
		1	12	7.38	<13	PASS
		1	24	8.08	<13	PASS
		12	0	8.25	<13	PASS
		12	6	9.73	<13	PASS
		12	13	12.21	<13	PASS
		25	0	9.13	<13	PASS
	MCH	1	0	8.99	<13	PASS
		1	12	10.29	<13	PASS
		1	24	8.32	<13	PASS
		12	0	8.19	<13	PASS
		12	6	9.04	<13	PASS
		12	13	8.37	<13	PASS
		25	0	8.17	<13	PASS
	HCH	1	0	8.44	<13	PASS
		1	12	9.56	<13	PASS
		1	24	11.53	<13	PASS
		12	0	7.4	<13	PASS
		12	6	9.05	<13	PASS
		12	13	11.1	<13	PASS
		25	0	9.1	<13	PASS
16QAM	LCH	1	0	9.81	<13	PASS
		1	12	11.13	<13	PASS
		1	24	11.36	<13	PASS
		12	0	10.27	<13	PASS
		12	6	8.39	<13	PASS
		12	13	7.58	<13	PASS
		25	0	8.44	<13	PASS
	MCH	1	0	9.71	<13	PASS
		1	12	8.98	<13	PASS
		1	24	10.04	<13	PASS
		12	0	9.8	<13	PASS

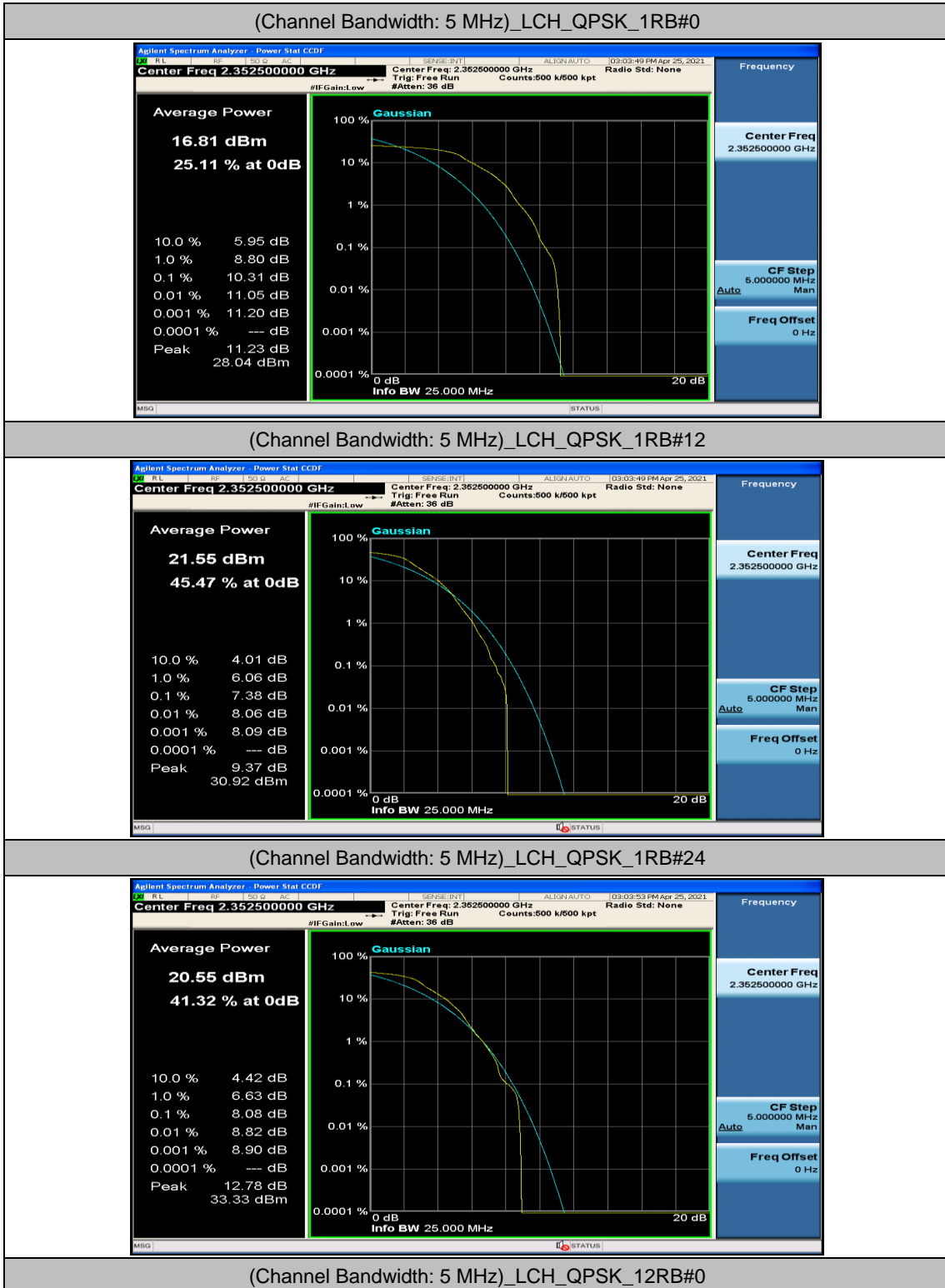
		12	6	8.02	<13	PASS
		12	13	8.1	<13	PASS
		25	0	10.14	<13	PASS
	HCH	1	0	8.91	<13	PASS
		1	12	9.16	<13	PASS
		1	24	9.57	<13	PASS
		12	0	9.22	<13	PASS
		12	6	8.41	<13	PASS
		12	13	8.53	<13	PASS
		25	0	8.82	<13	PASS

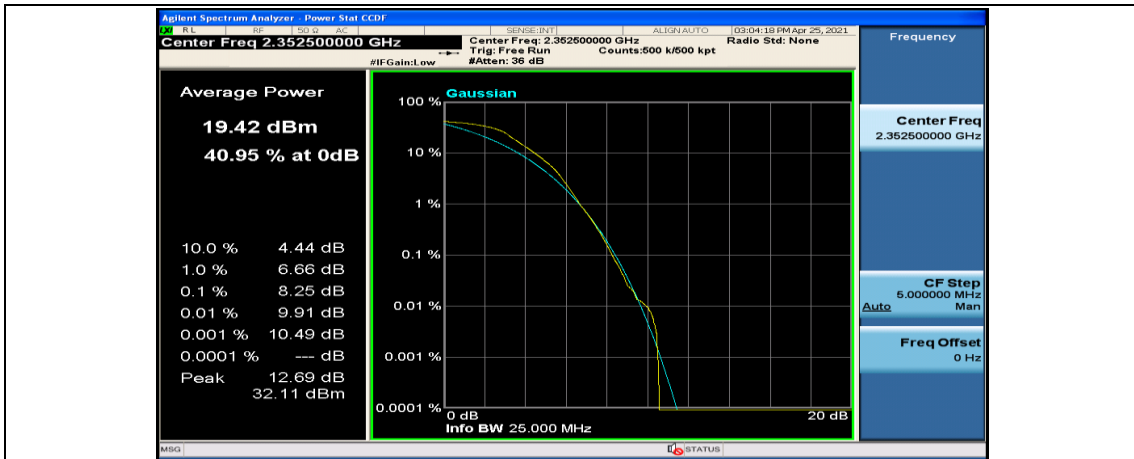
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	9.23	<13	PASS
		1	24	9.9	<13	PASS
		1	49	10.42	<13	PASS
		25	0	10.65	<13	PASS
		25	12	9.7	<13	PASS
		25	25	7.71	<13	PASS
		50	0	9.27	<13	PASS
16QAM	MCH	1	0	9.58	<13	PASS
		1	24	9.61	<13	PASS
		1	49	9.89	<13	PASS
		25	0	9.1	<13	PASS
		25	12	10.11	<13	PASS
		25	25	9.06	<13	PASS
		50	0	8.72	<13	PASS

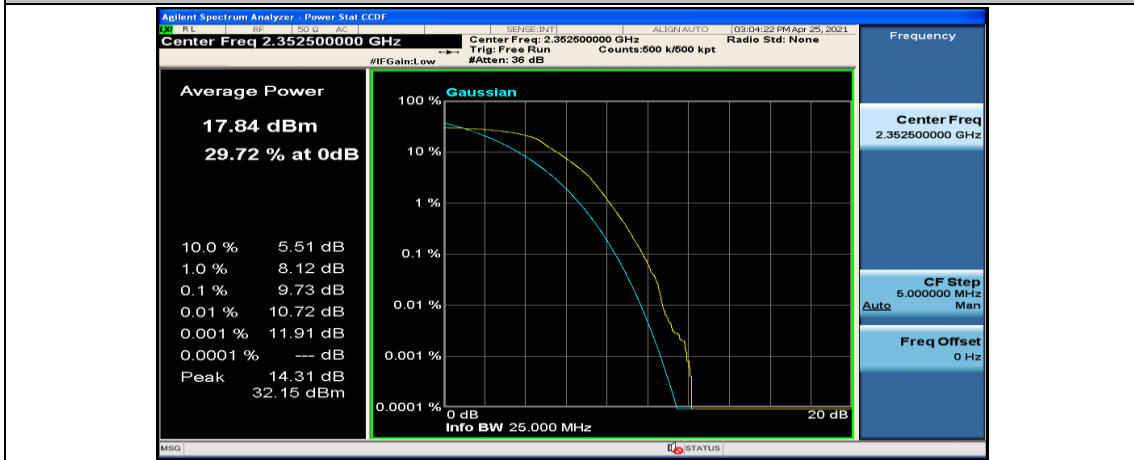
Test Graphs

Channel Bandwidth: 5 MHz

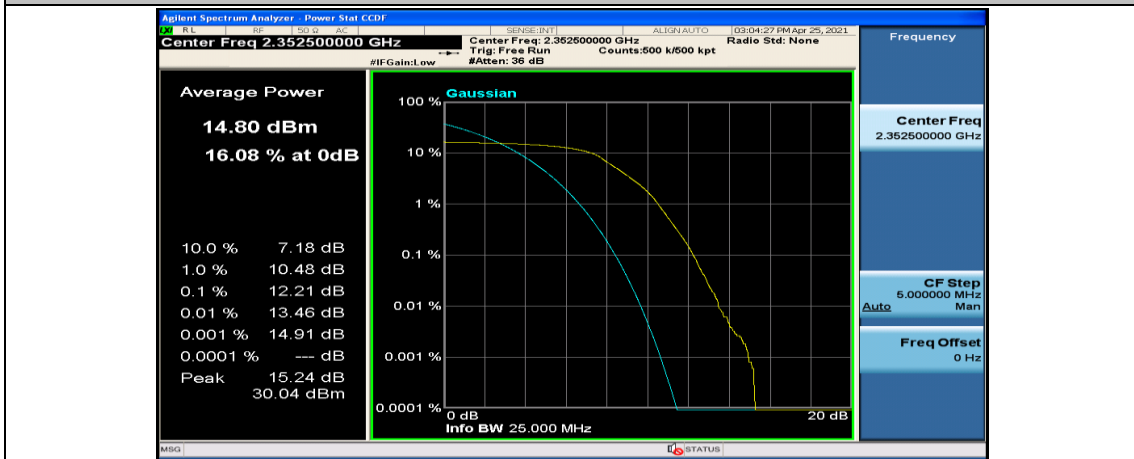




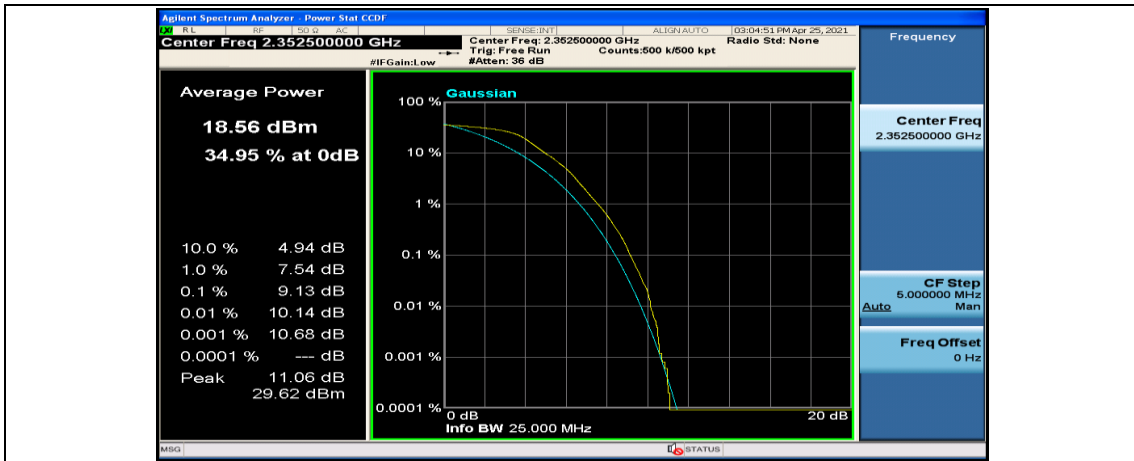
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



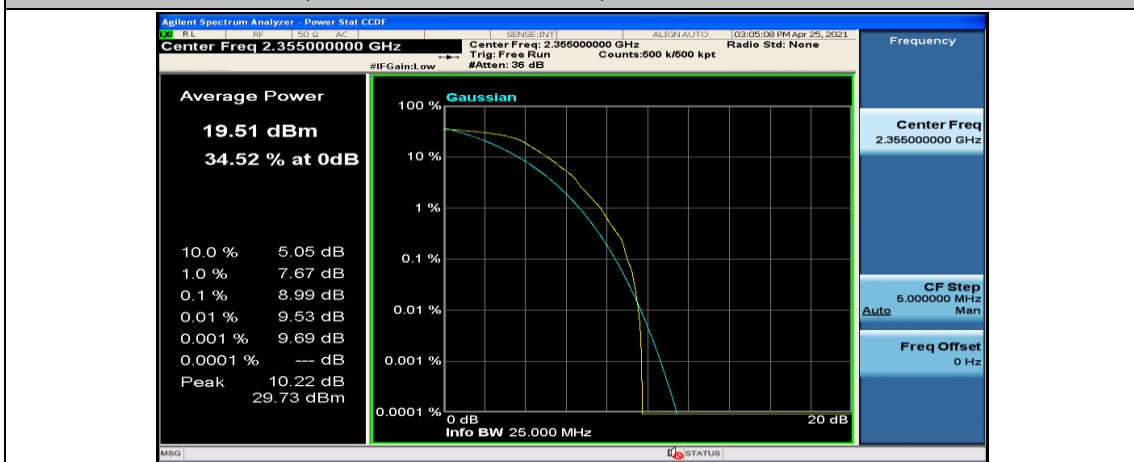
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



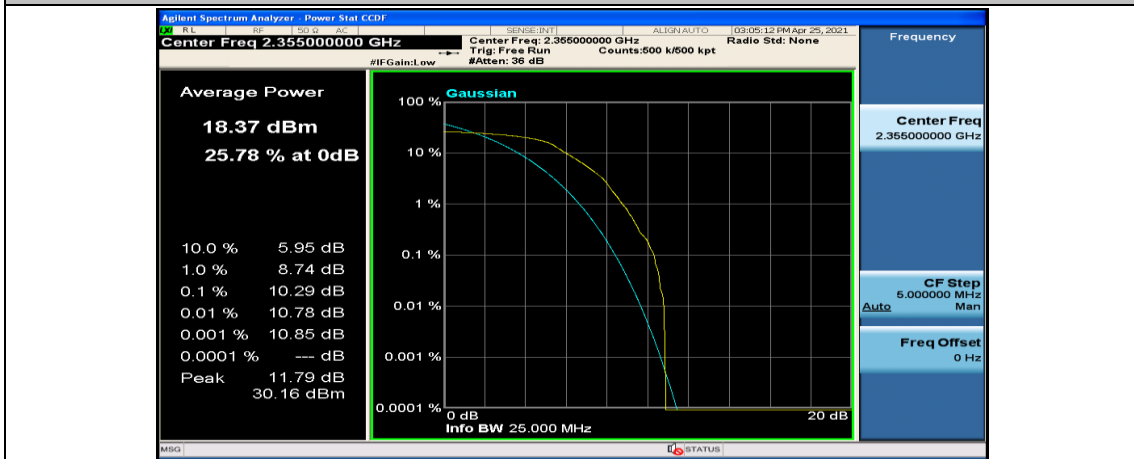
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



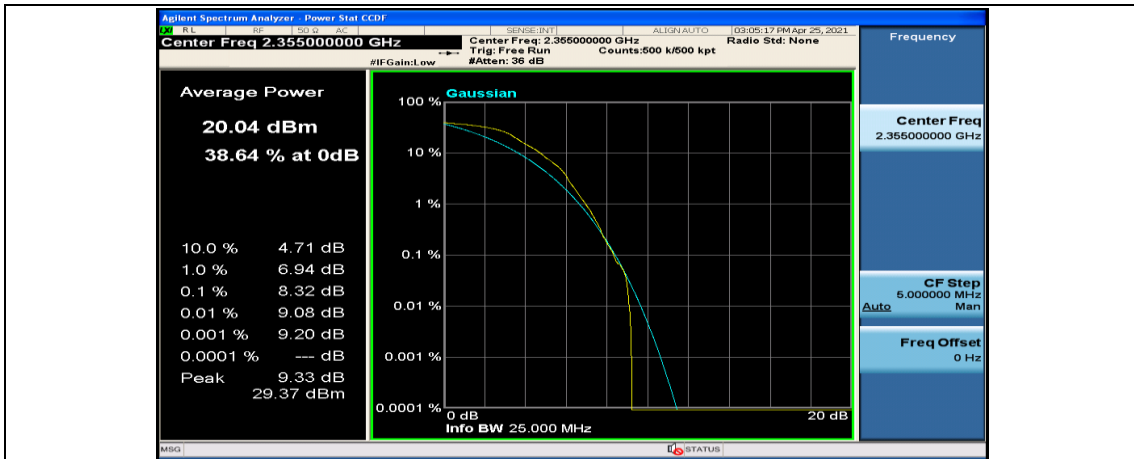
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



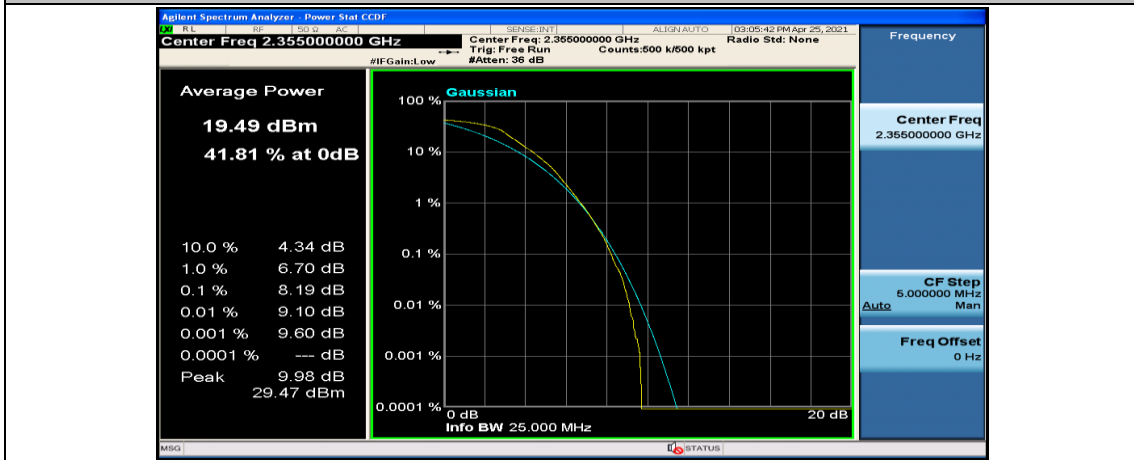
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



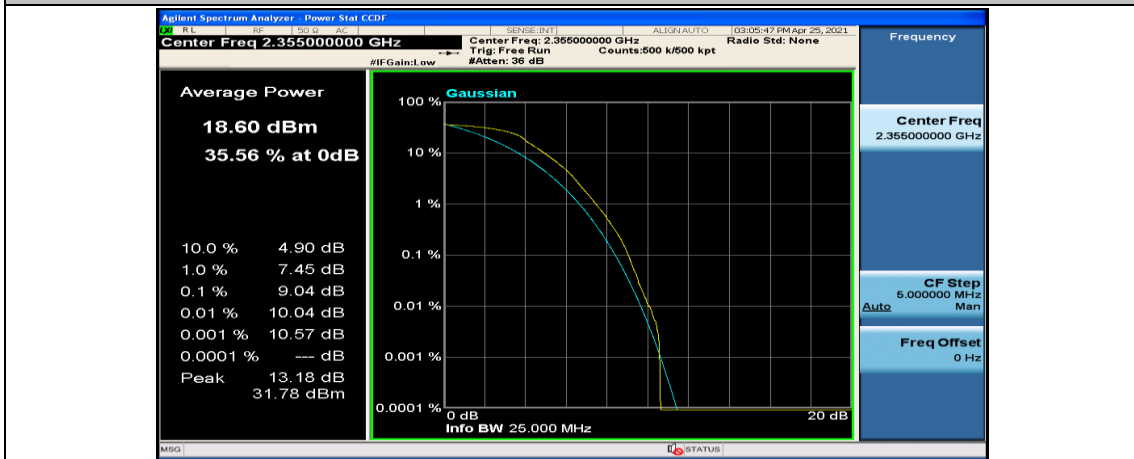
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(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



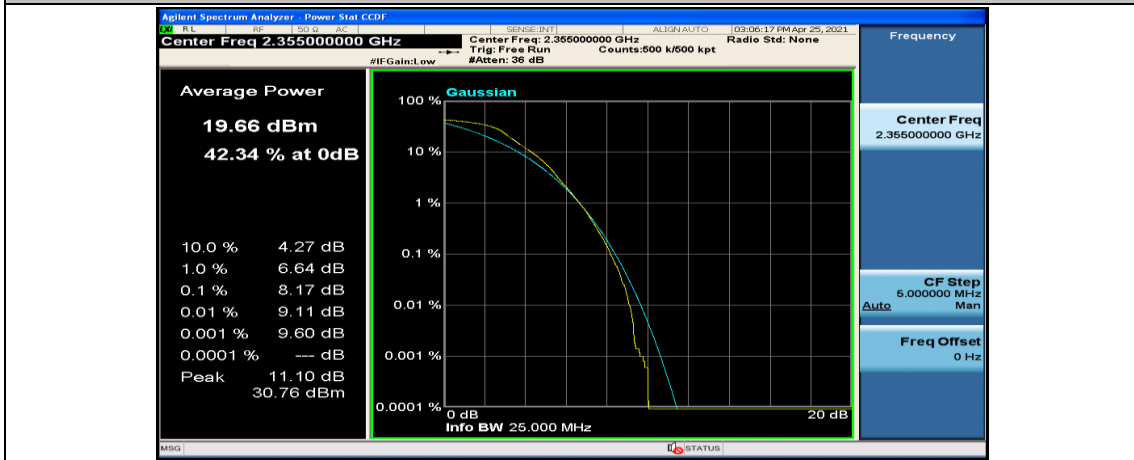
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6



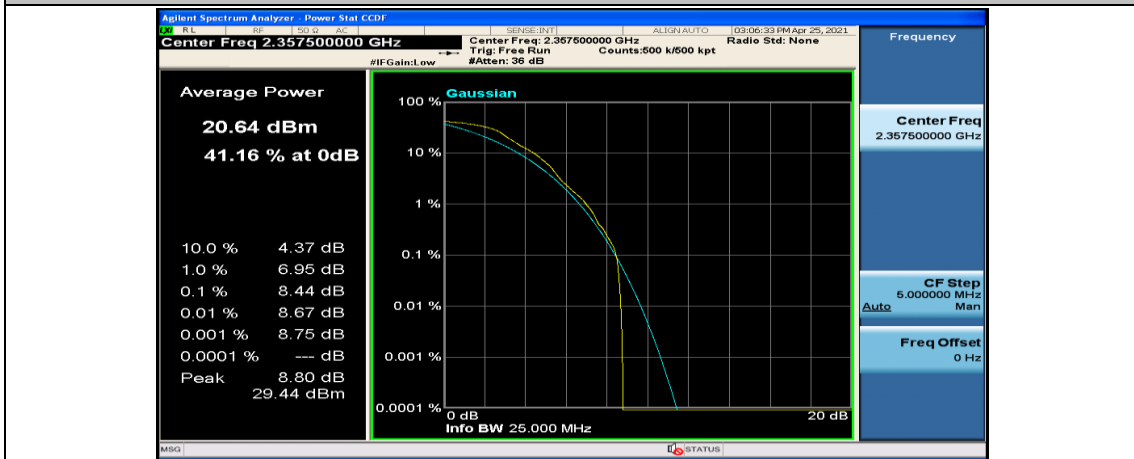
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



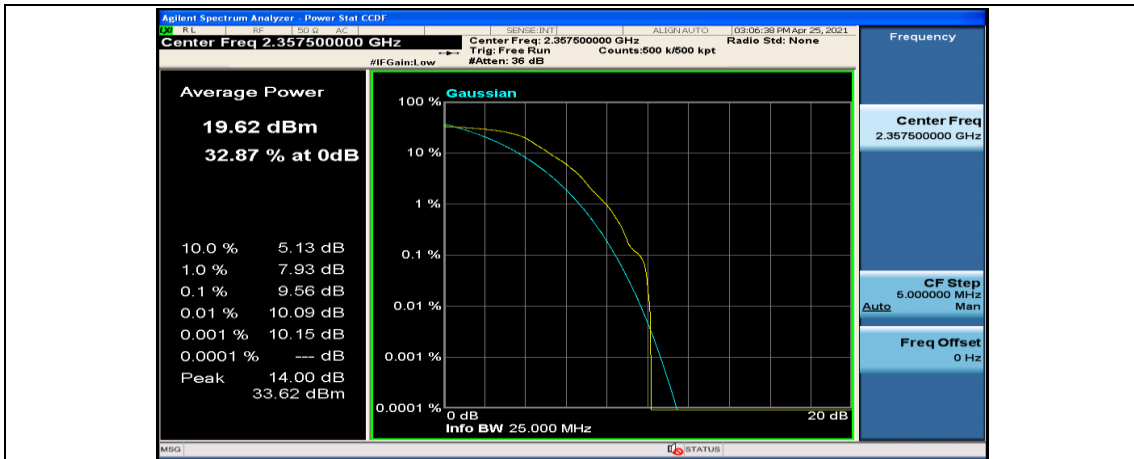
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



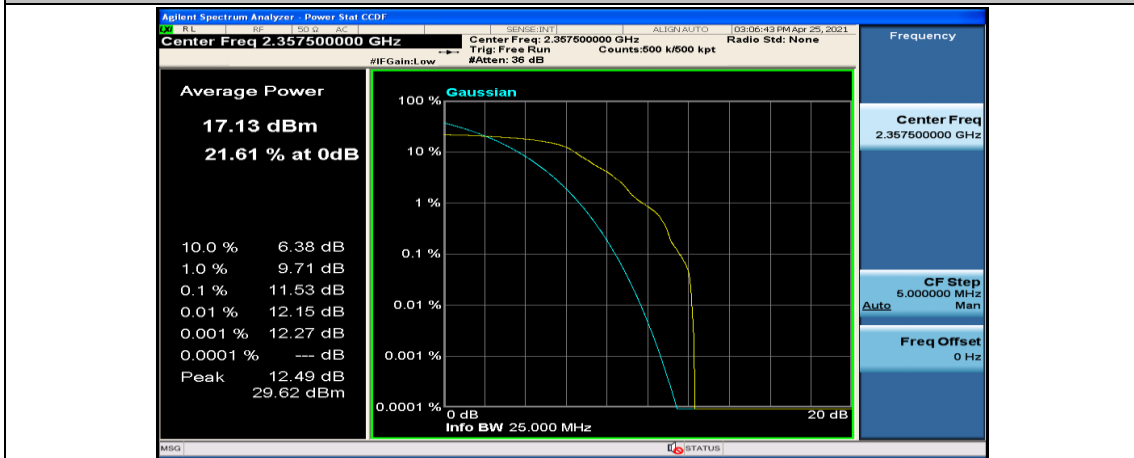
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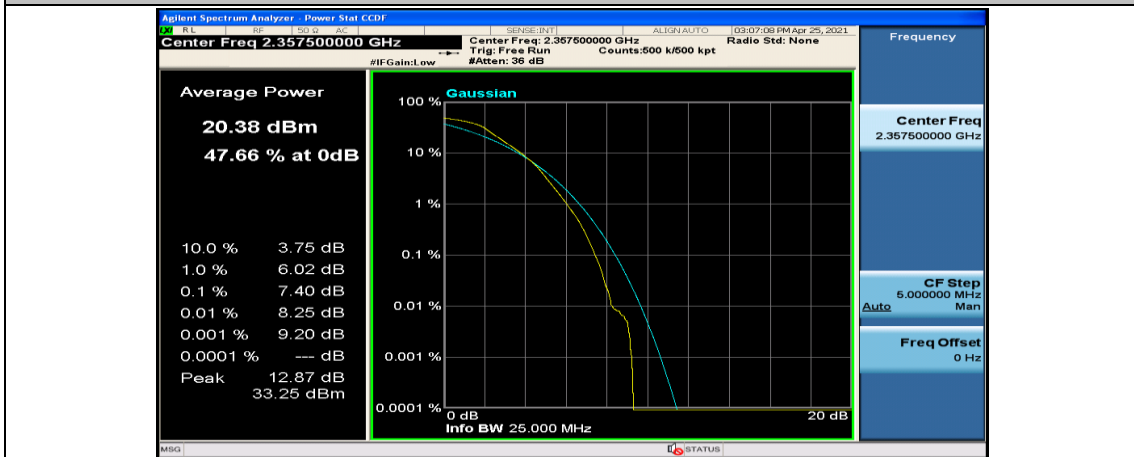
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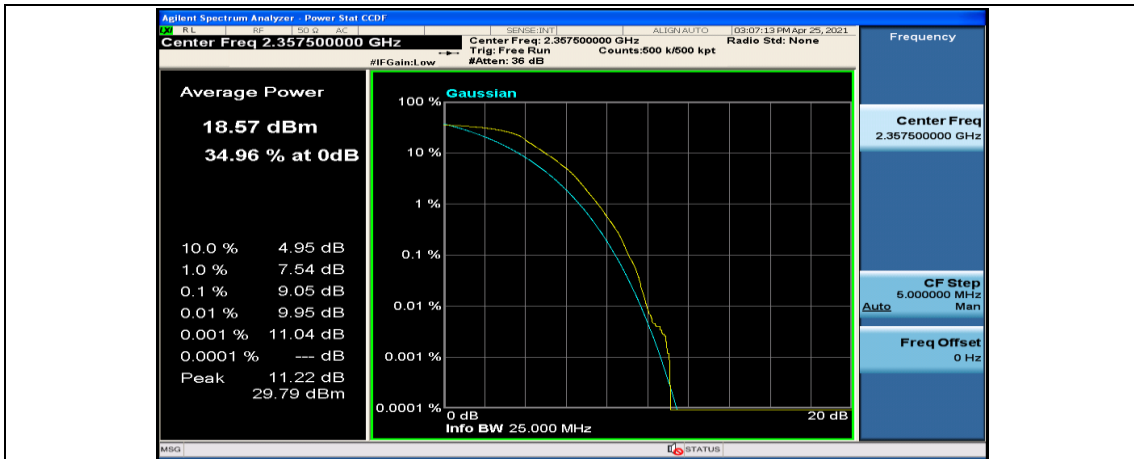
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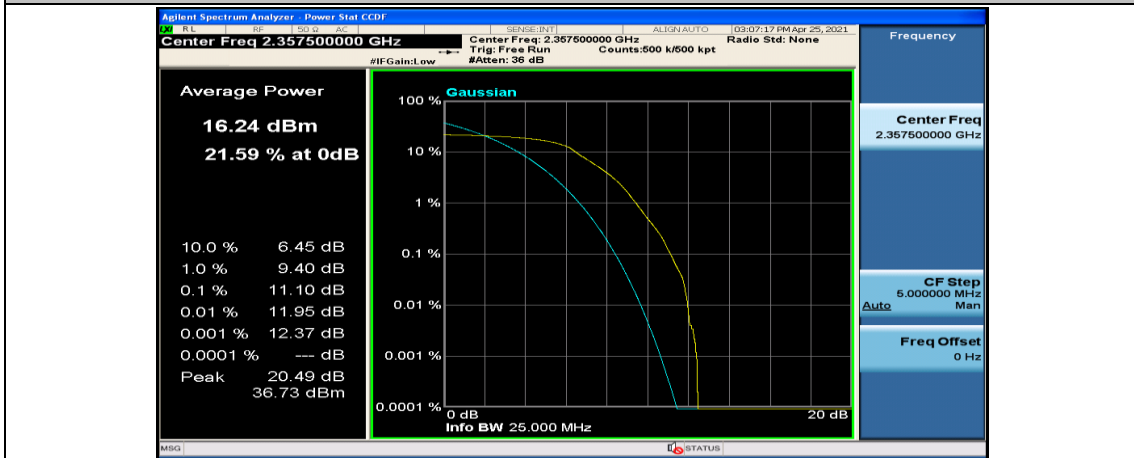
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



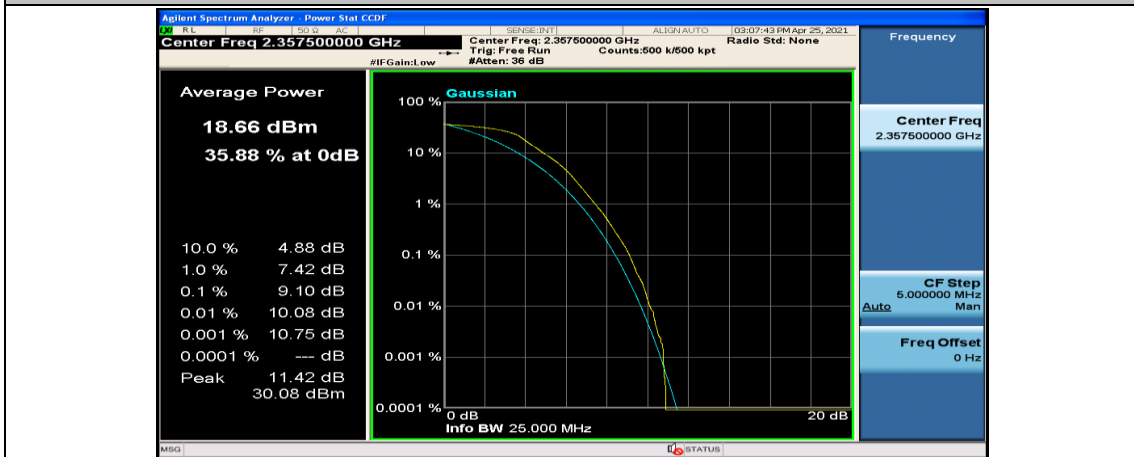
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

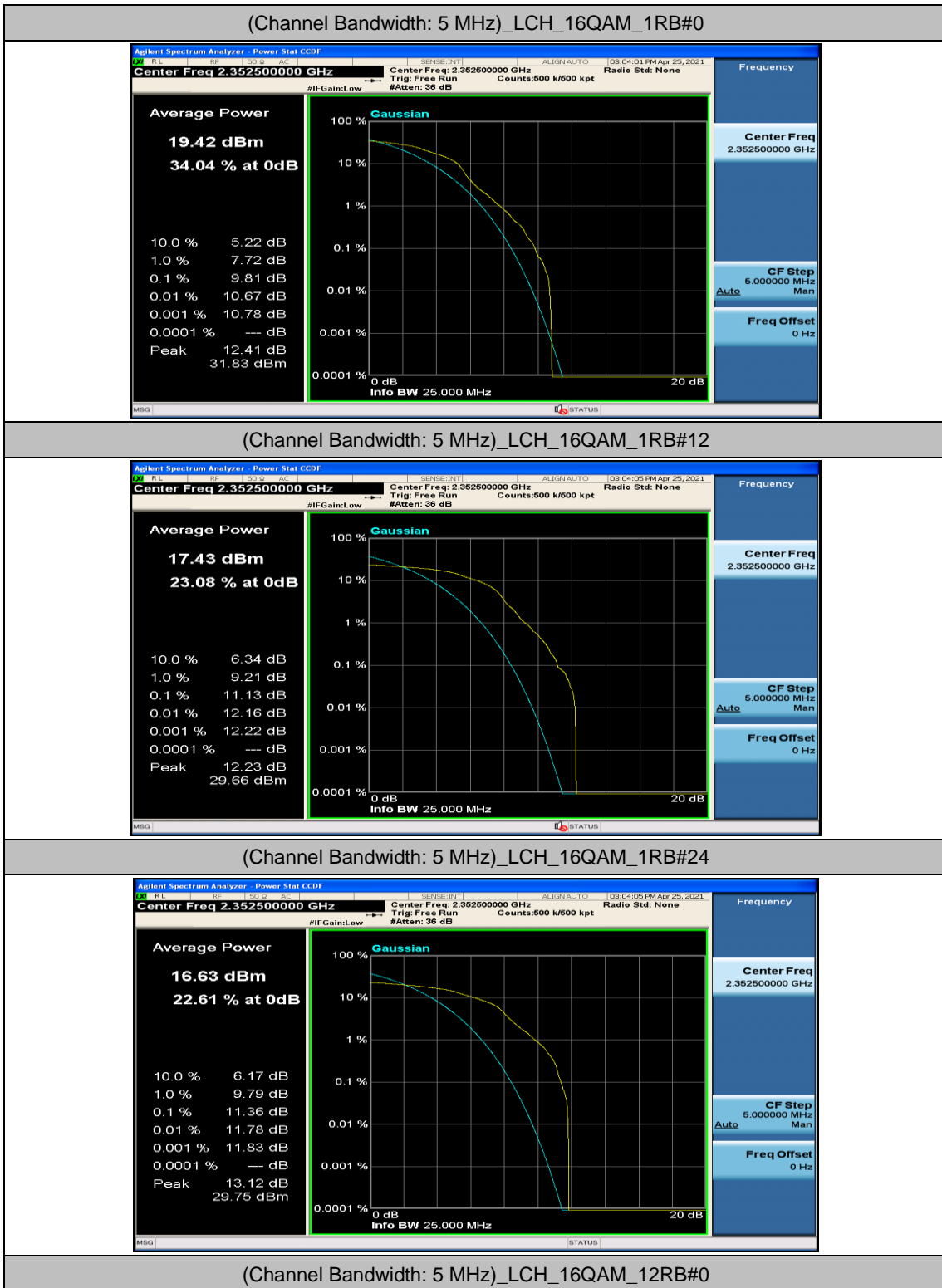


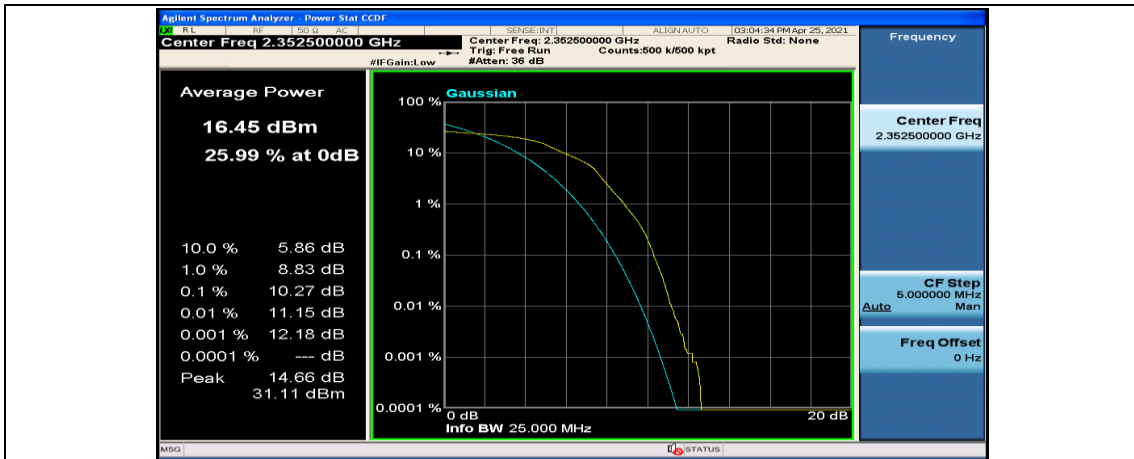
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



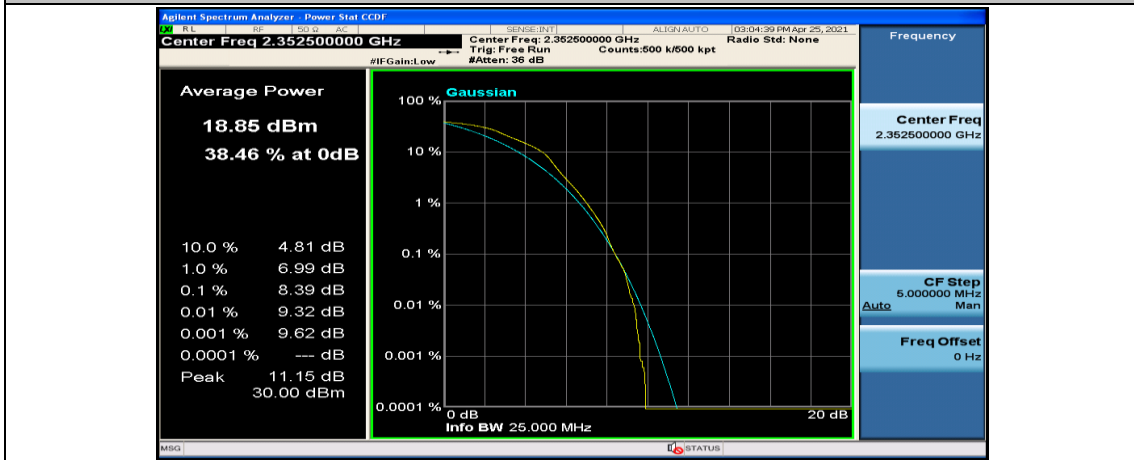
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



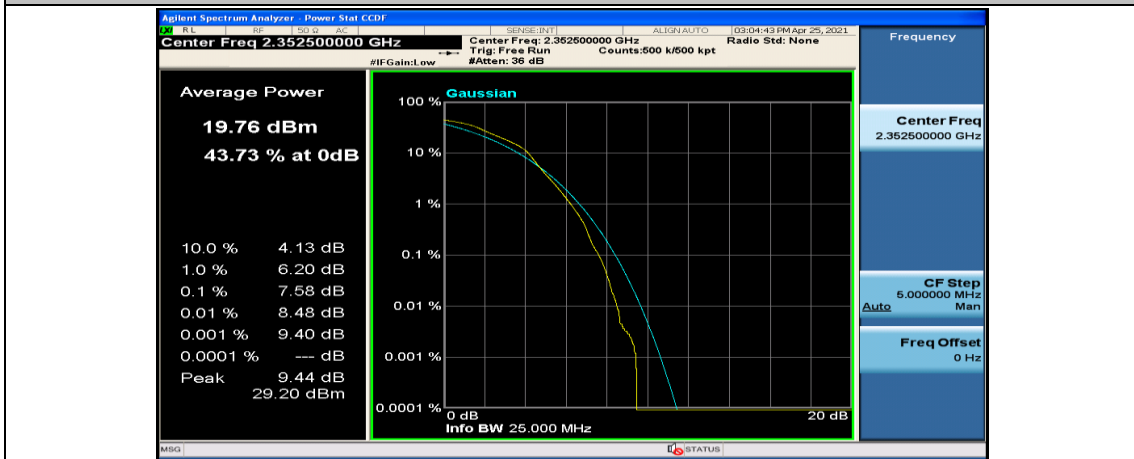




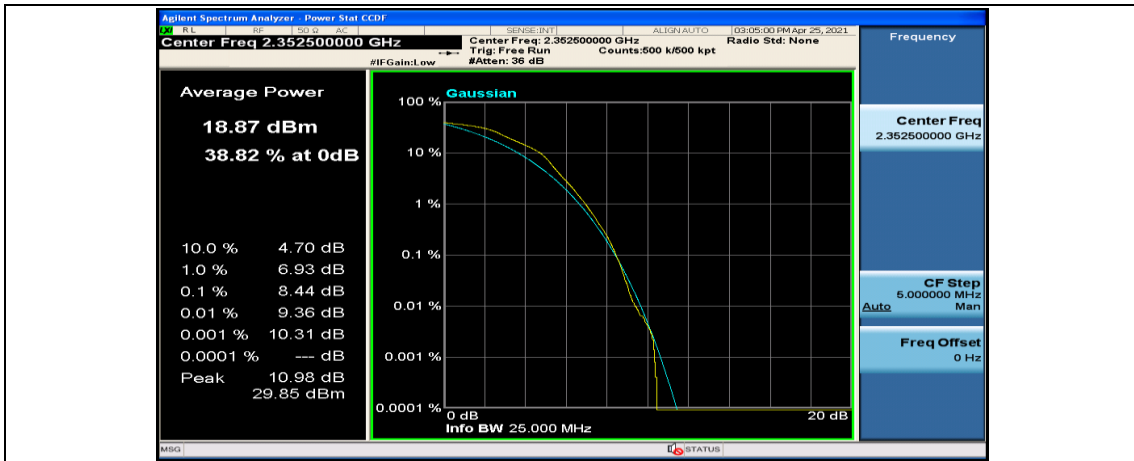
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



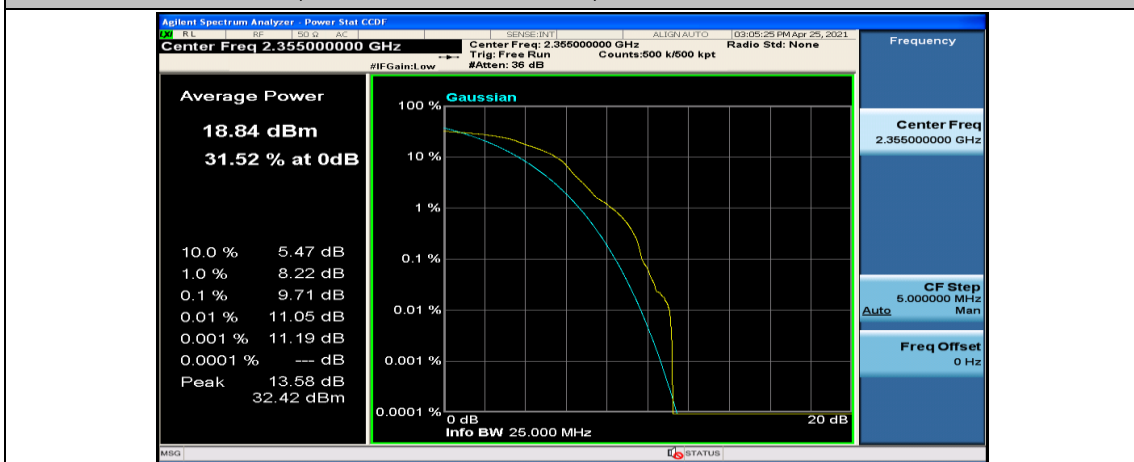
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



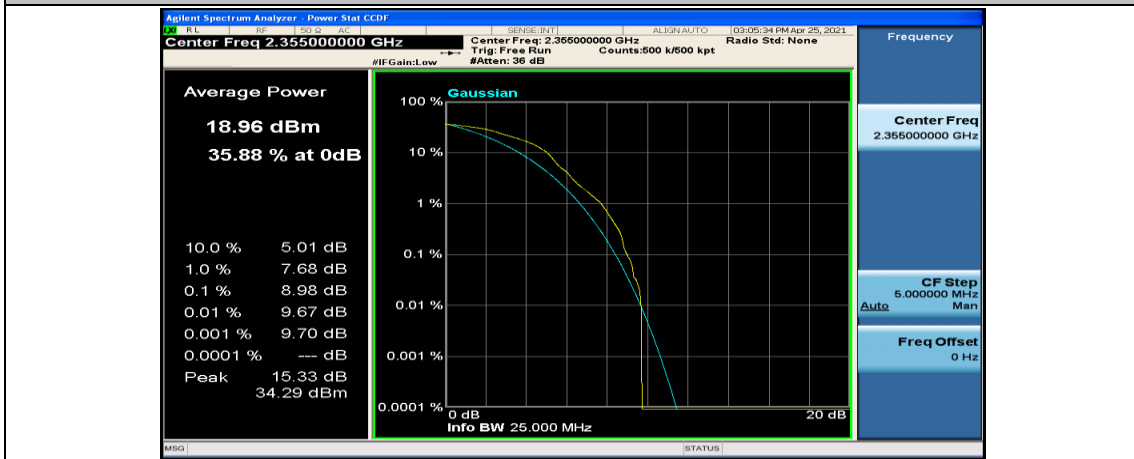
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(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



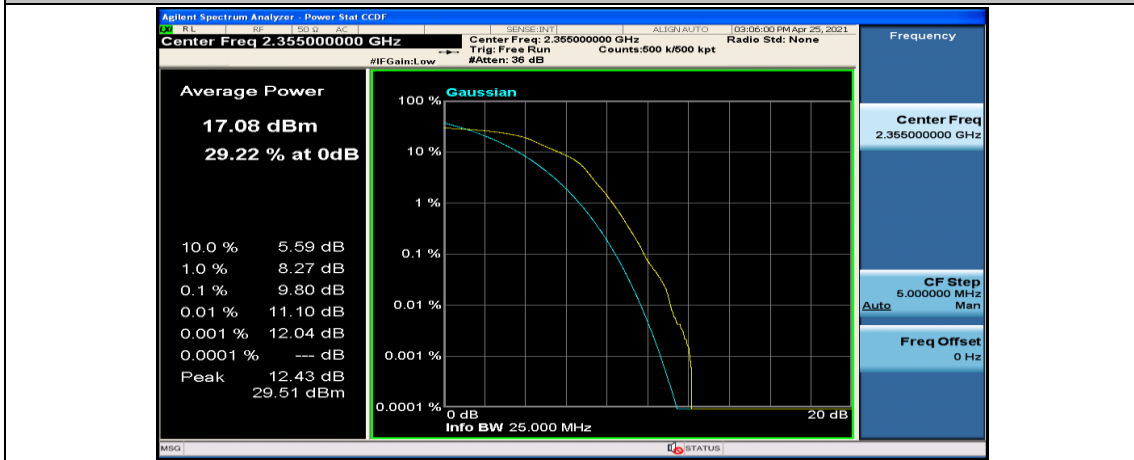
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



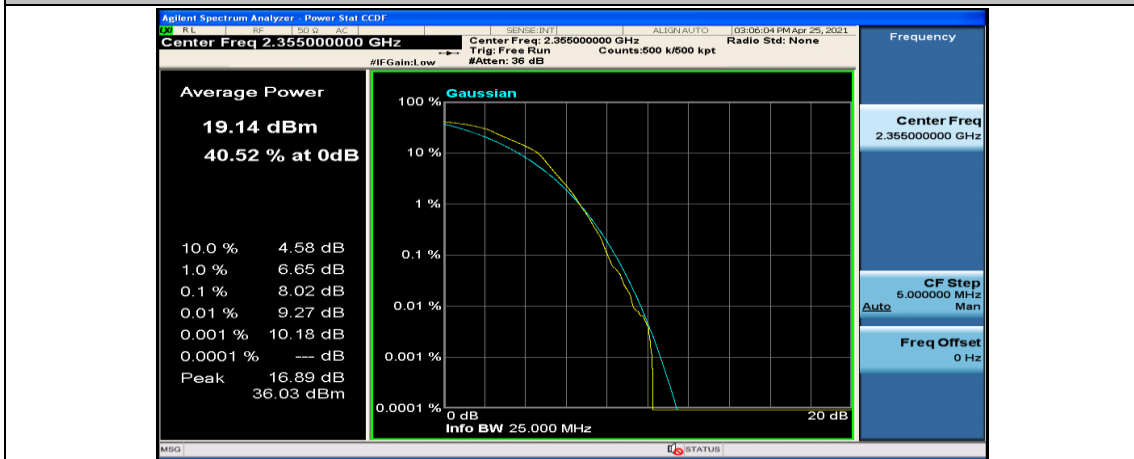
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



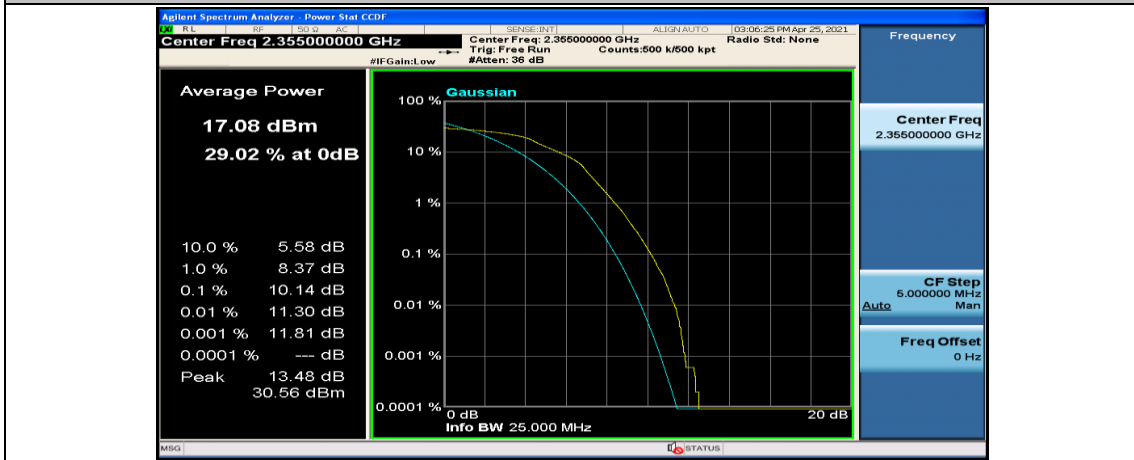
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6



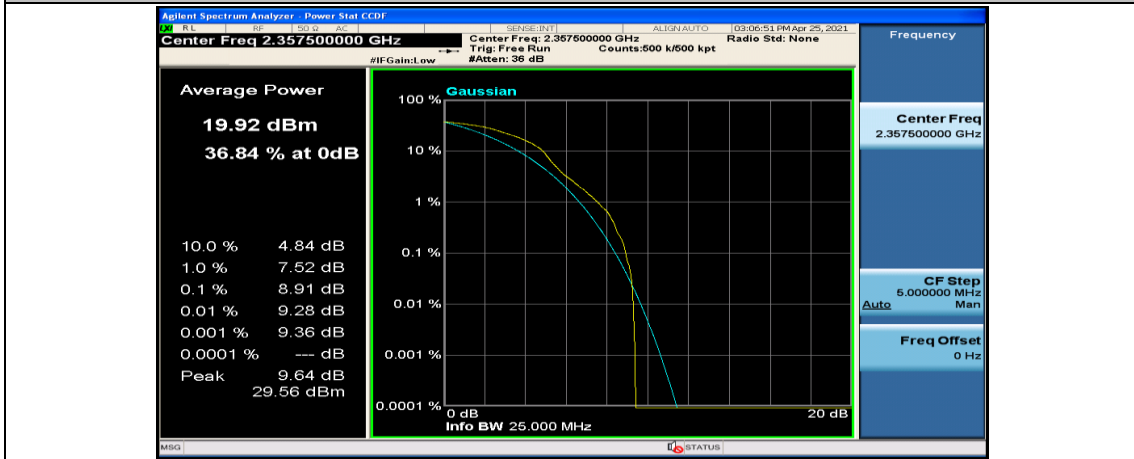
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



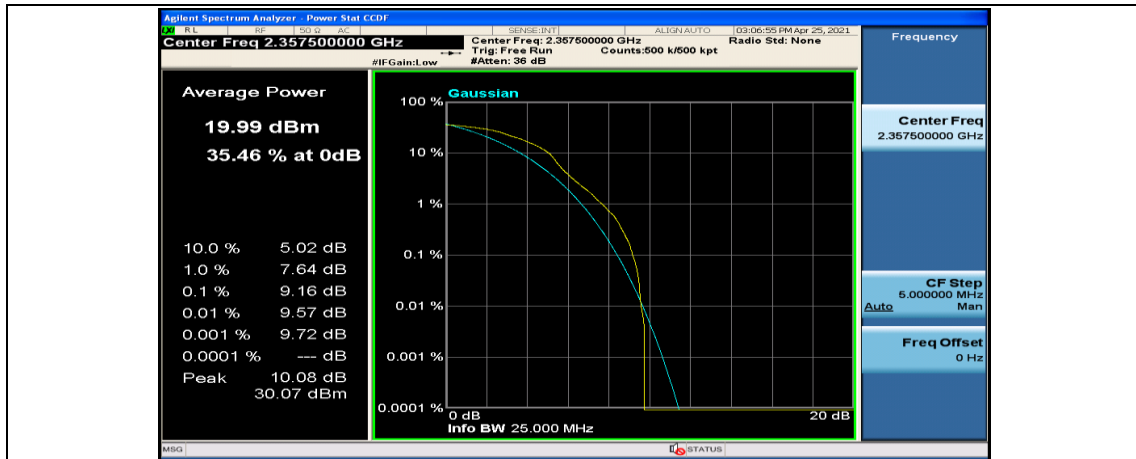
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



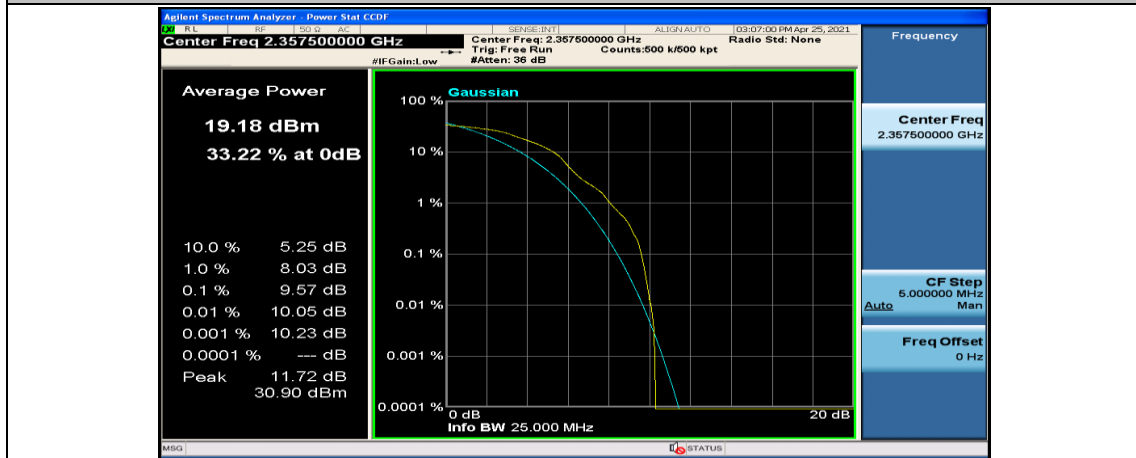
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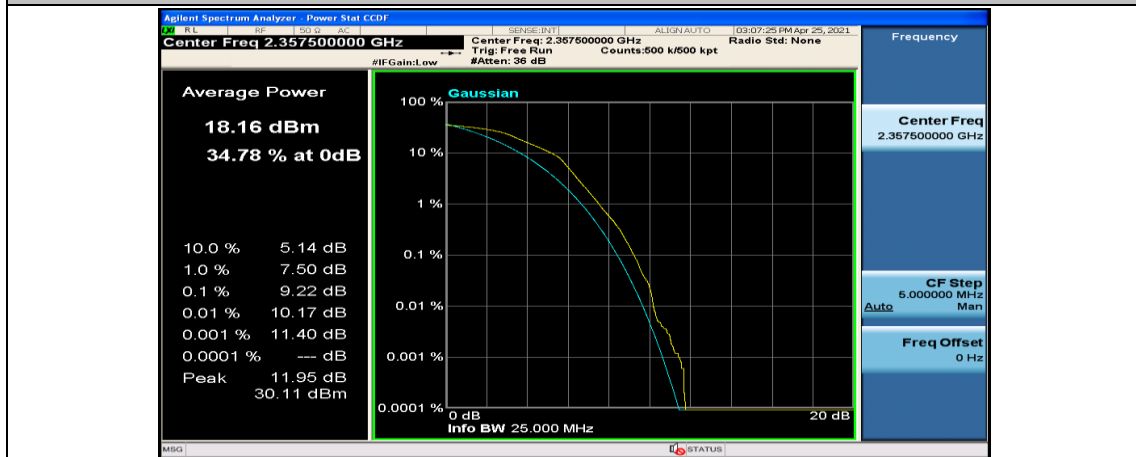
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



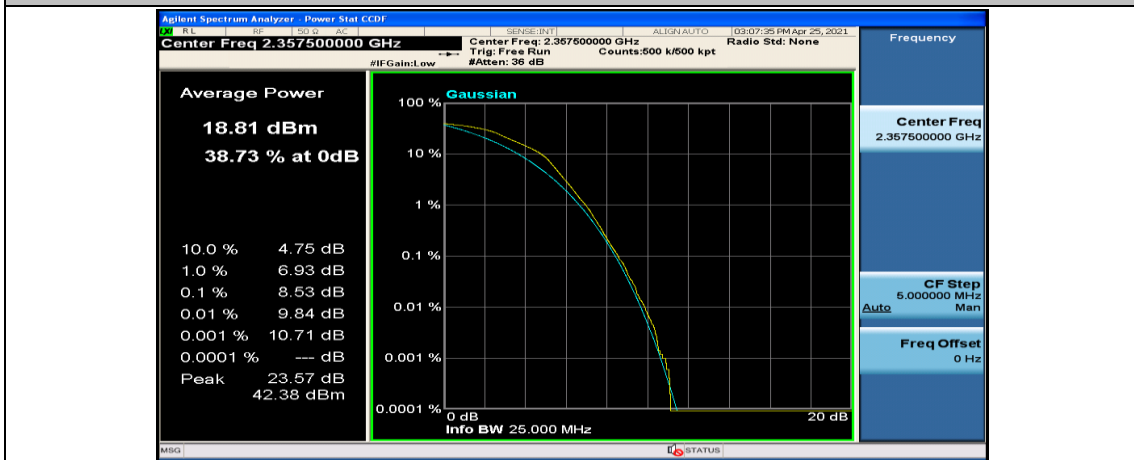
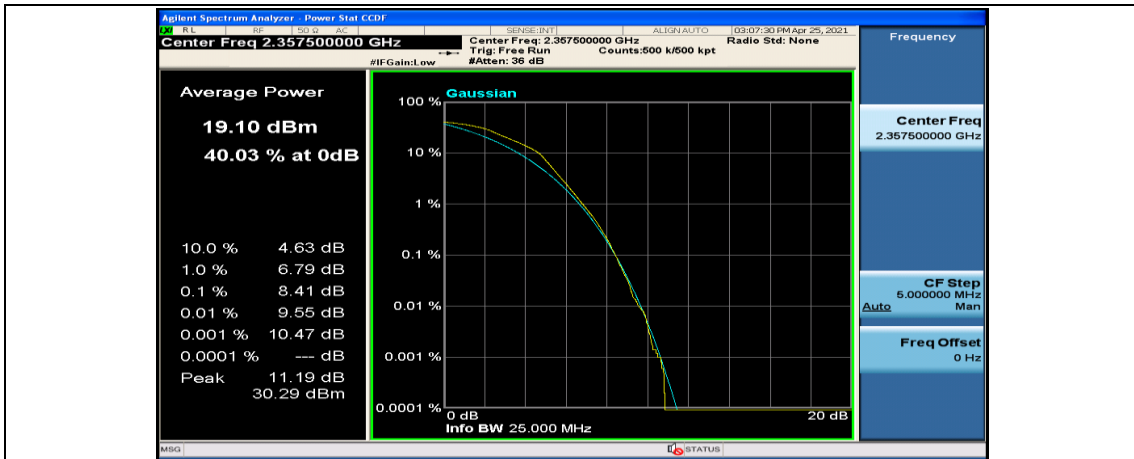
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



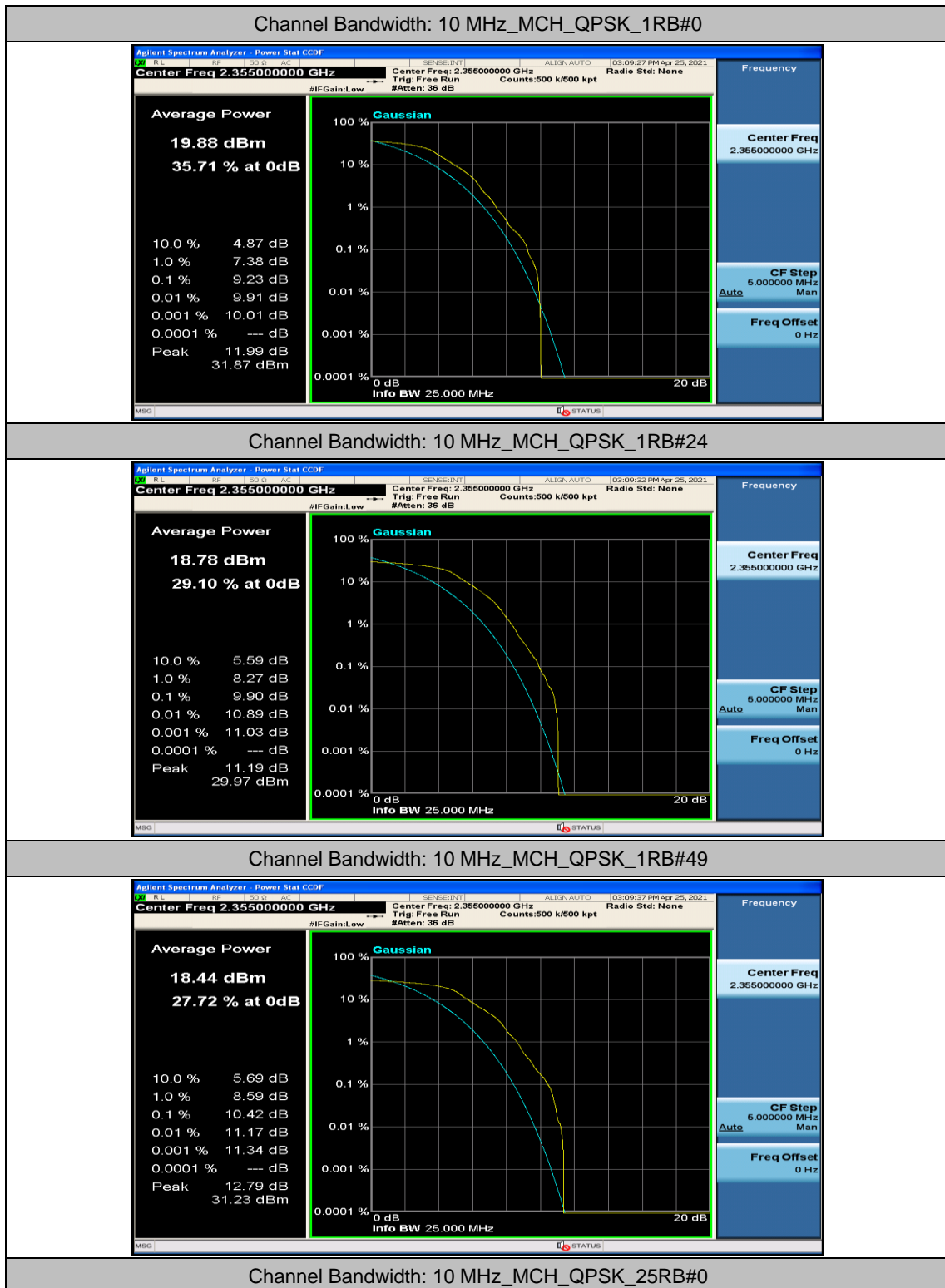
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0

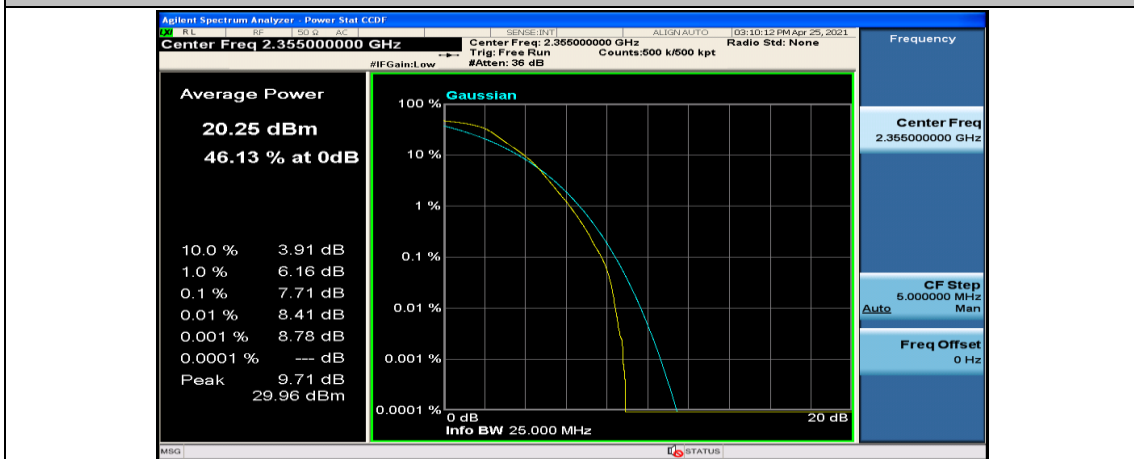
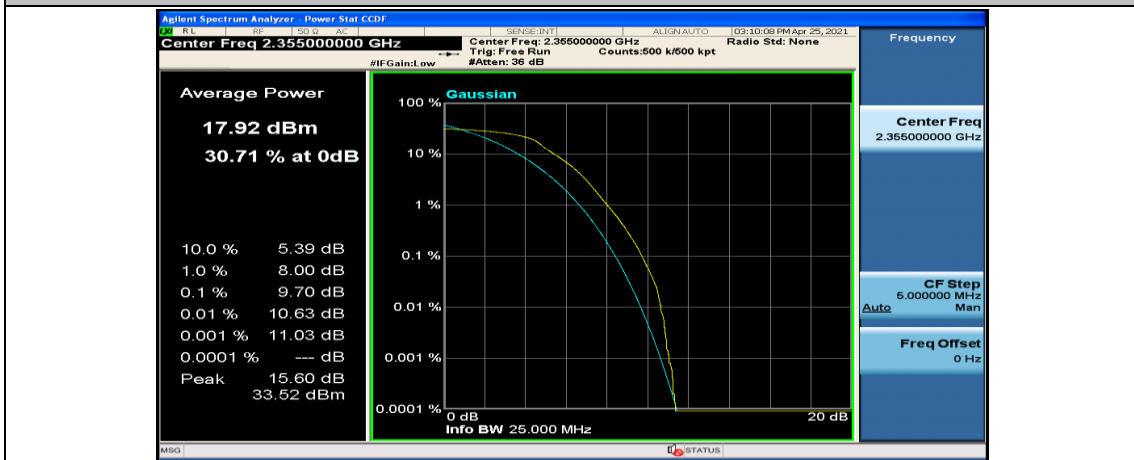
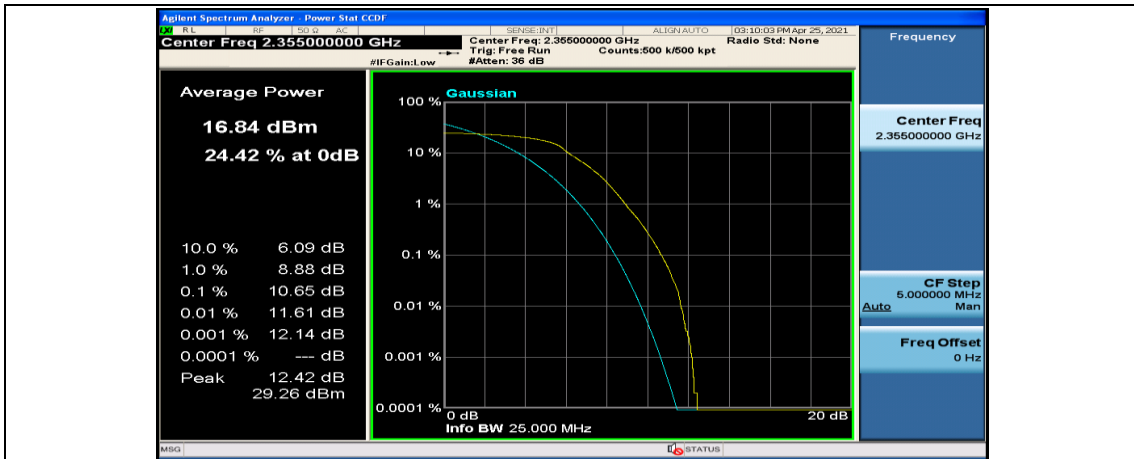


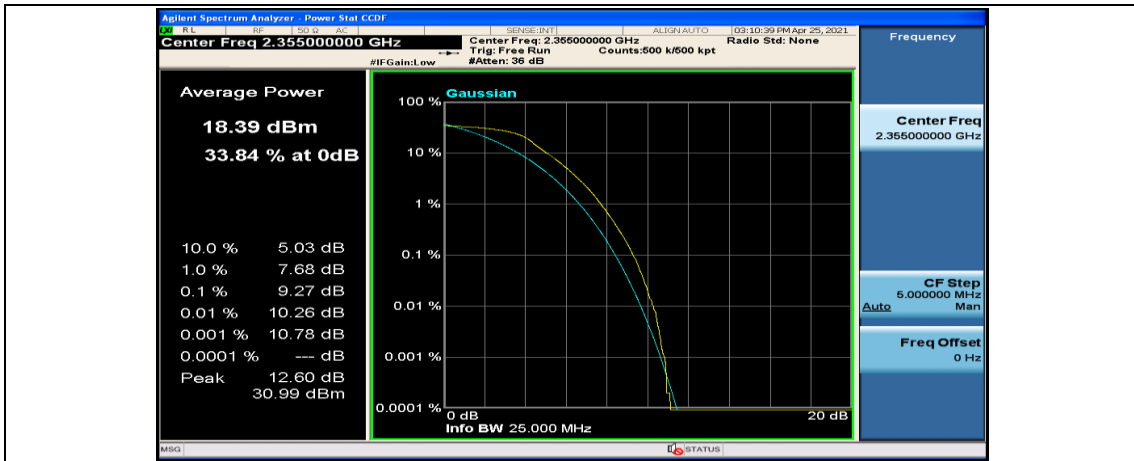
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



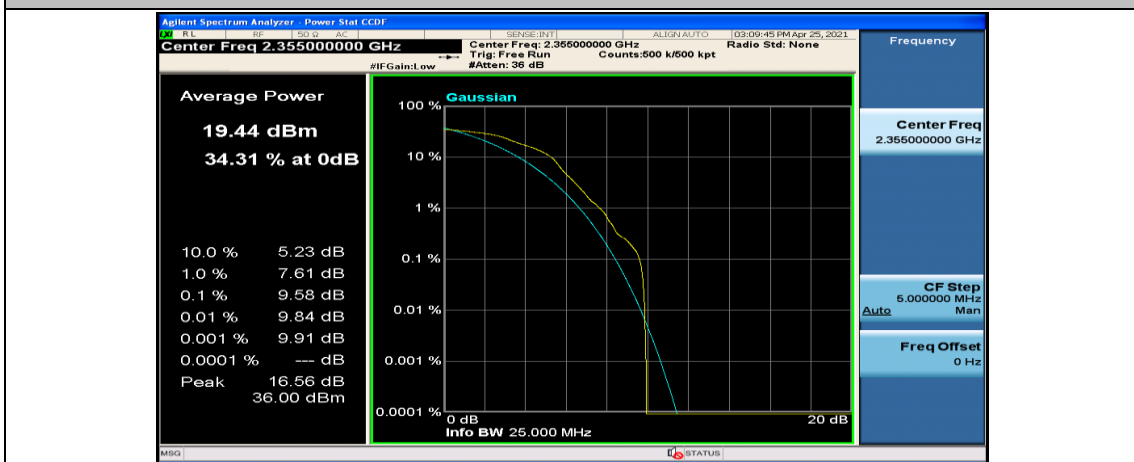
Channel Bandwidth: 10 MHz







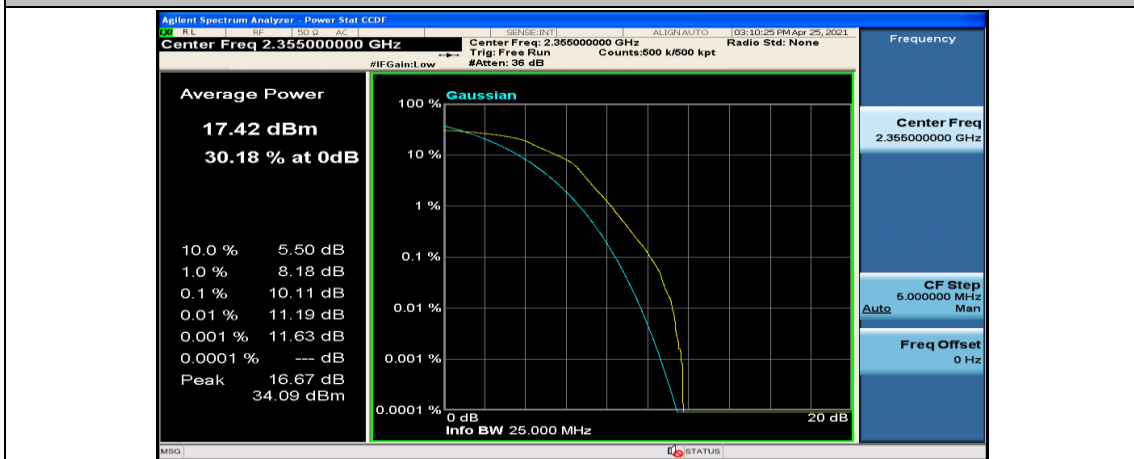
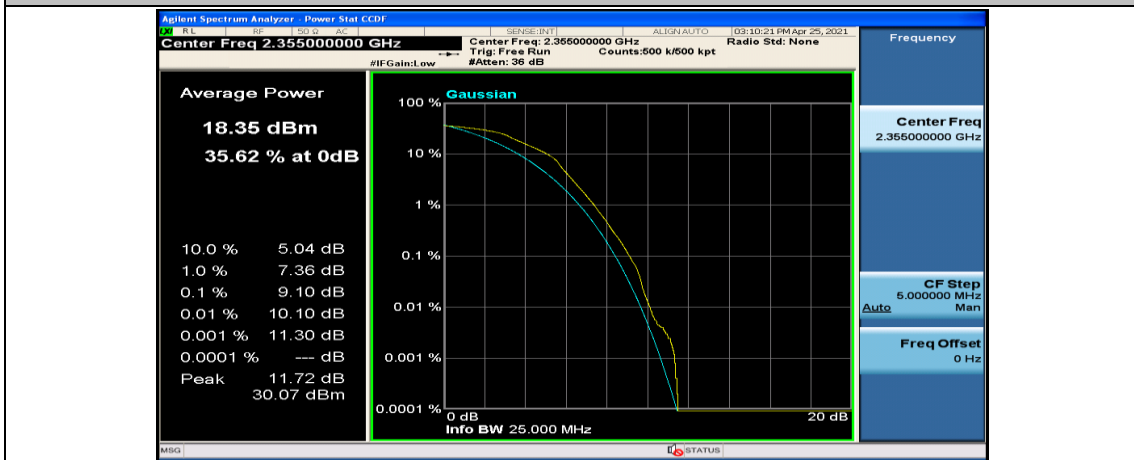
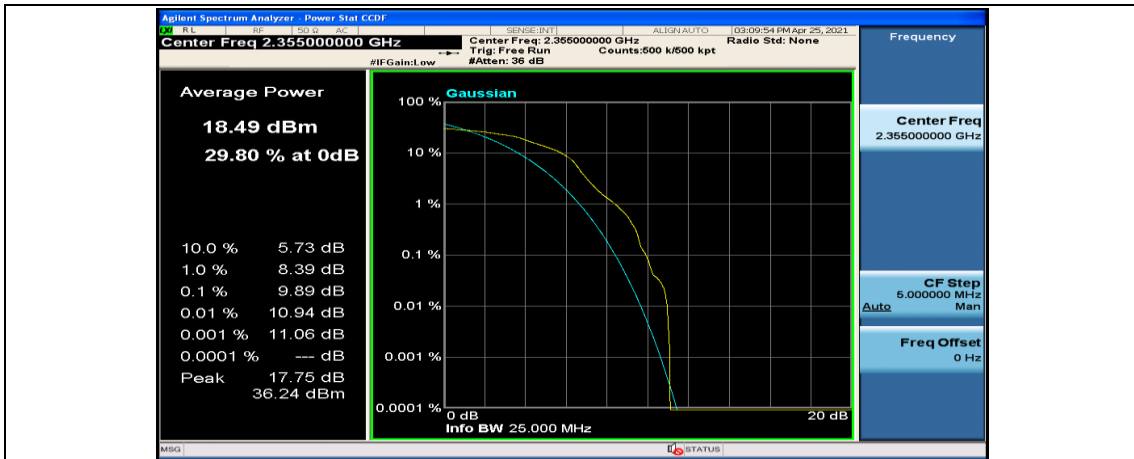
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

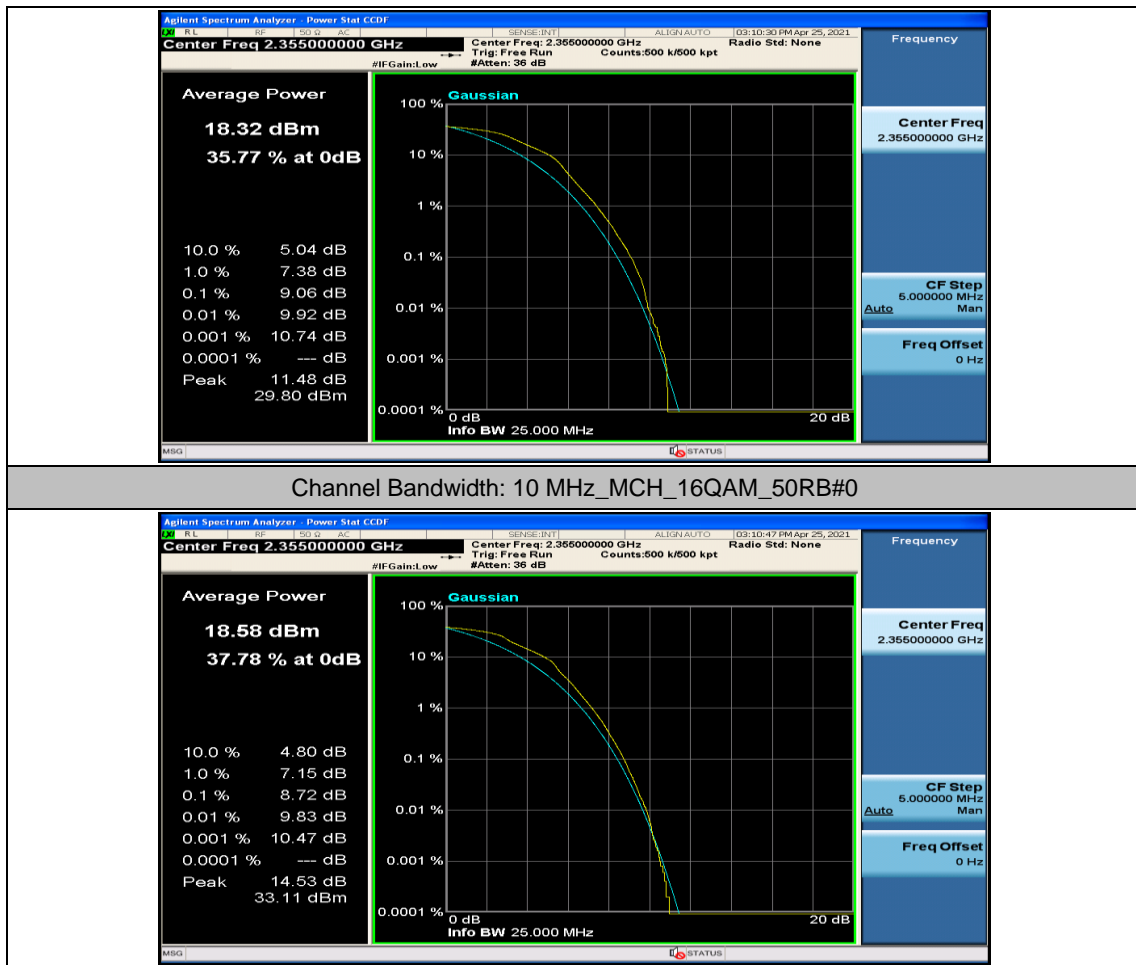


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49





Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

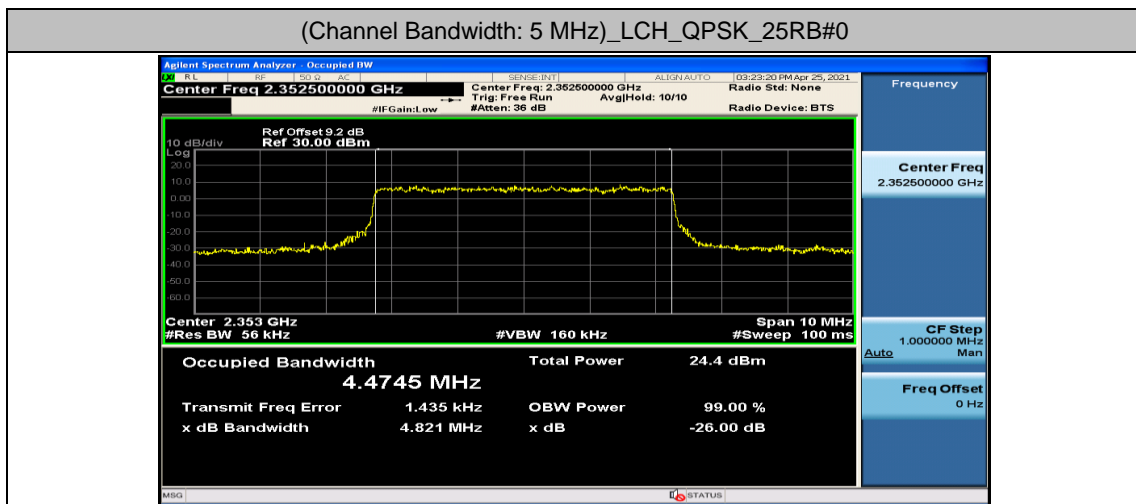
Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4745	4.821	PASS
	MCH	25	0	4.4706	4.770	PASS
	HCH	25	0	4.4728	4.840	PASS
16QAM	LCH	25	0	4.4798	4.810	PASS
	MCH	25	0	4.4579	4.838	PASS
	HCH	25	0	4.4702	4.817	PASS

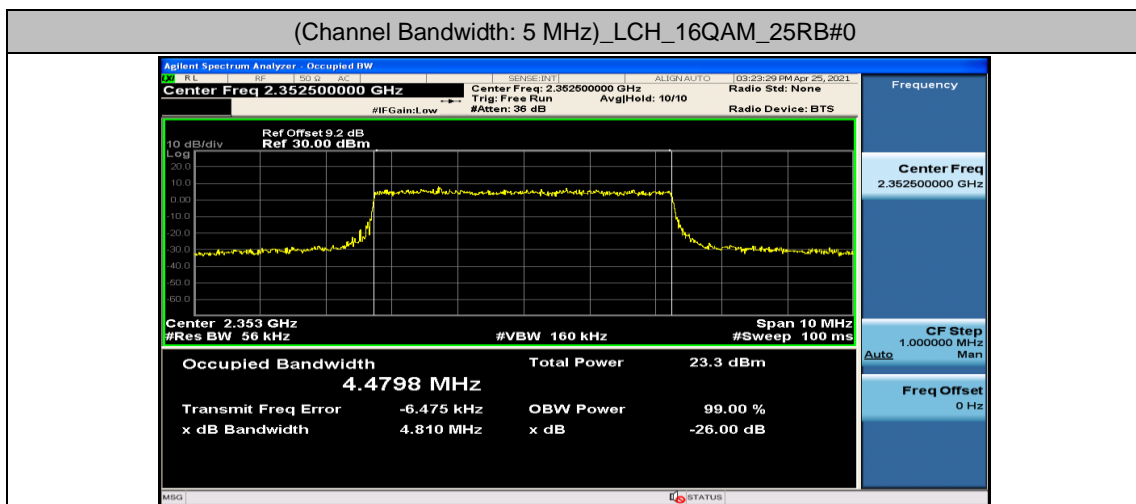
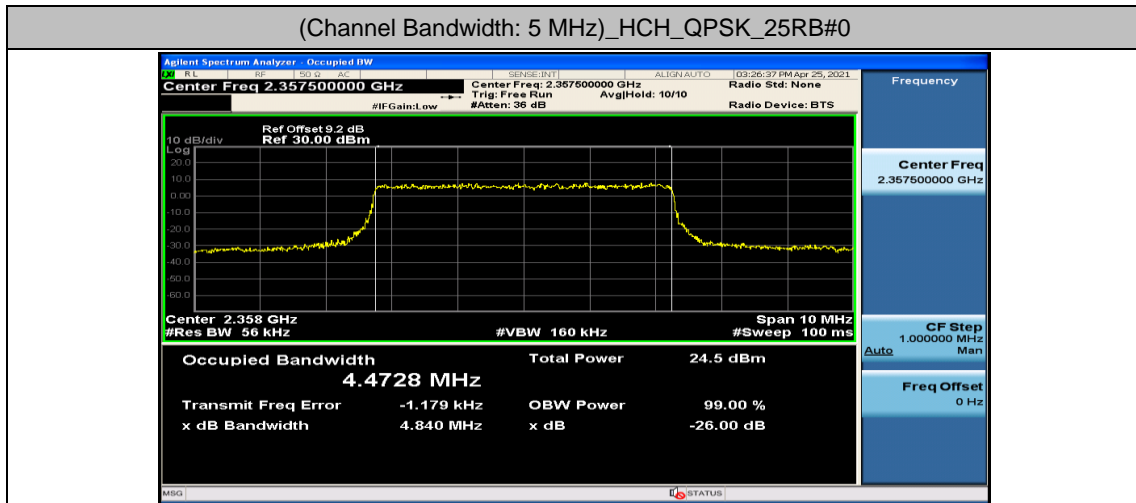
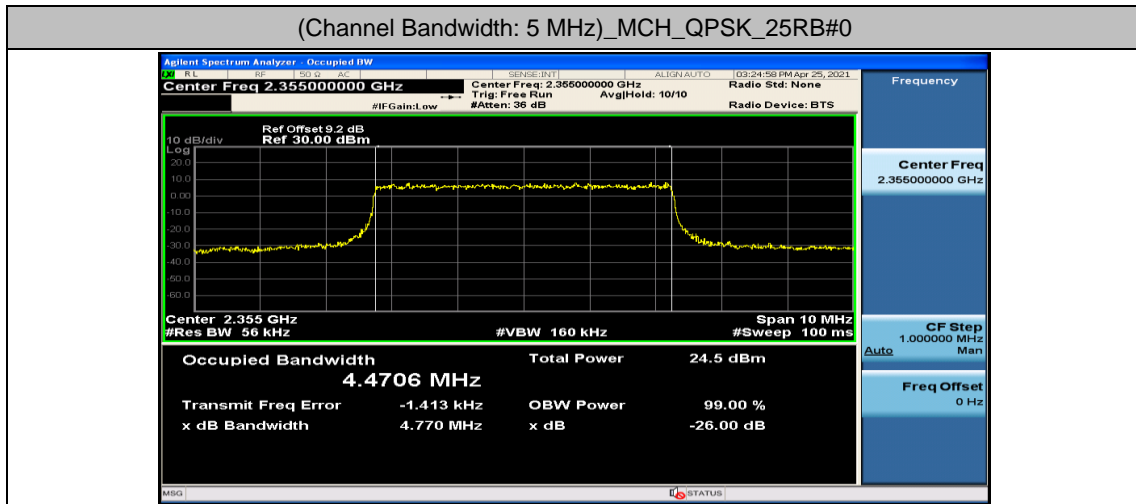
Channel Bandwidth: 10 MHz

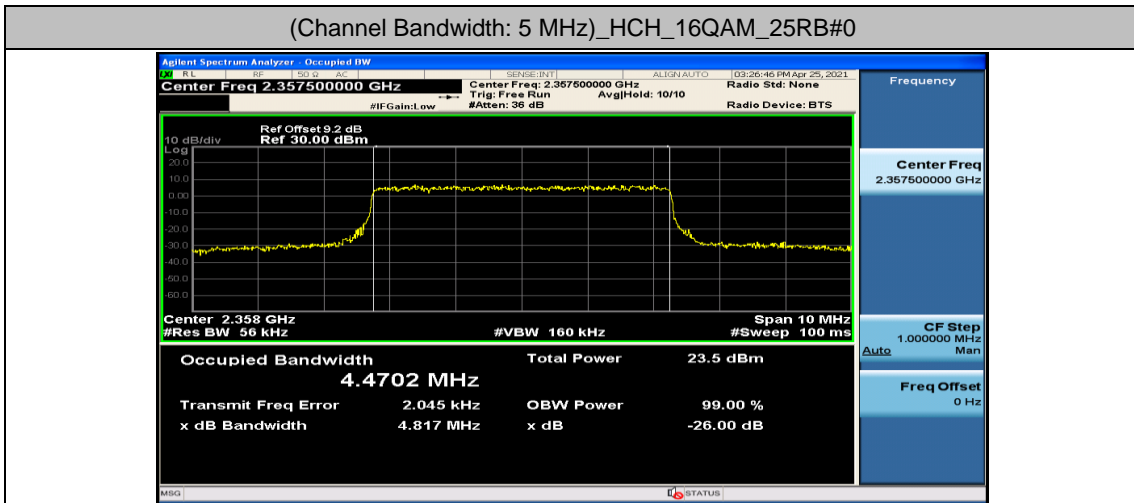
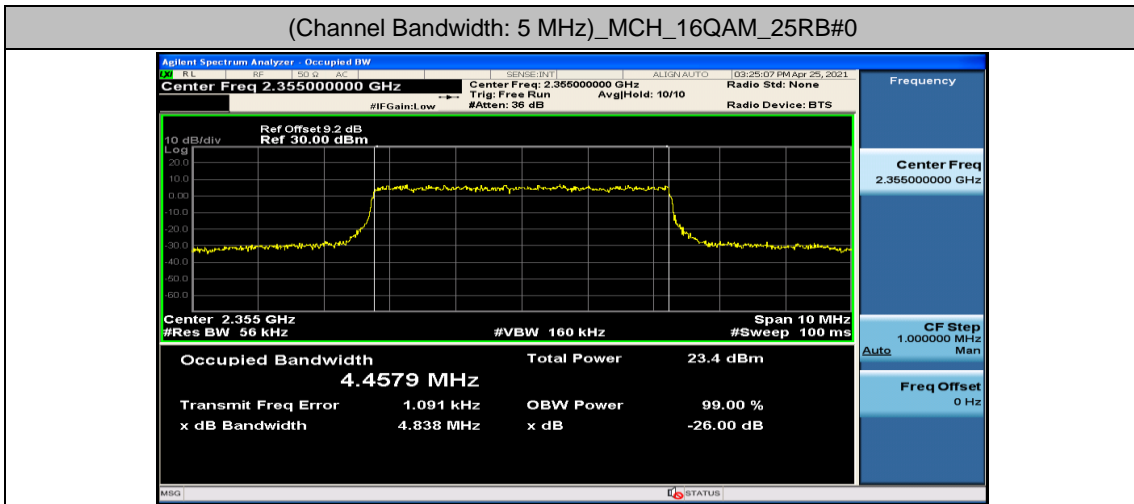
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	MCH	50	0	8.9287	9.428	PASS
16QAM	MCH	50	0	8.9381	9.464	PASS

Test Graphs

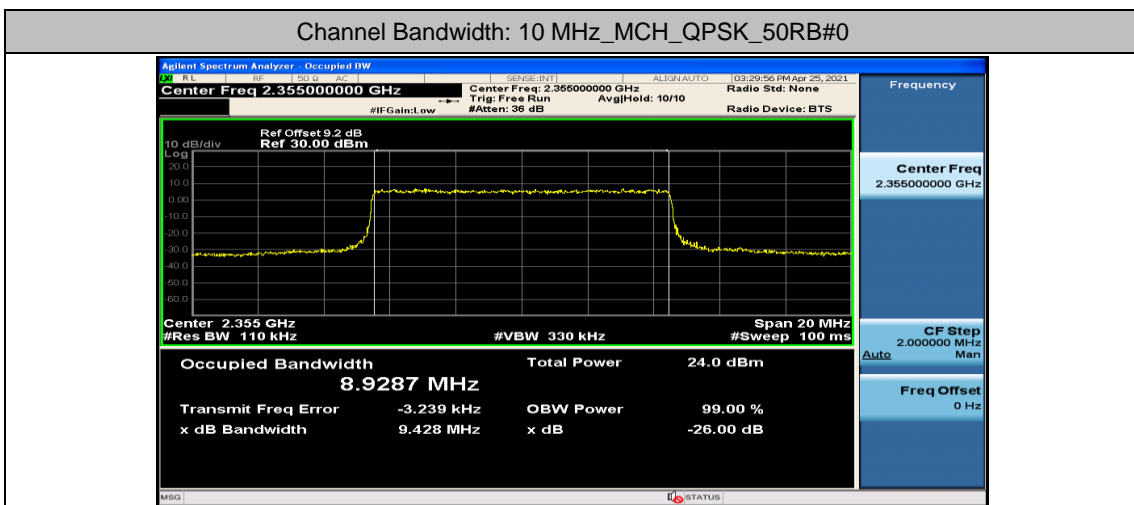
Channel Bandwidth: 5 MHz

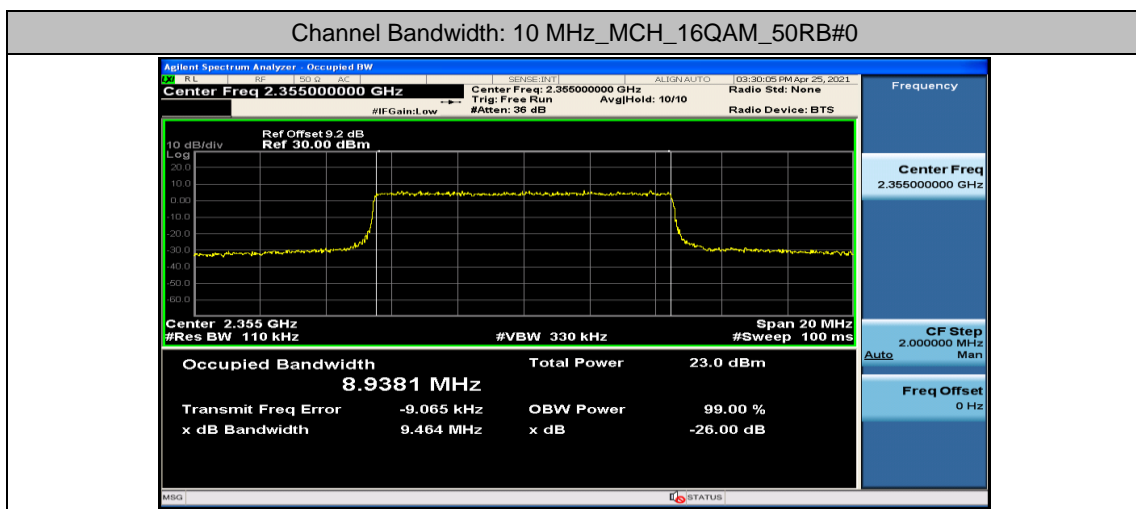
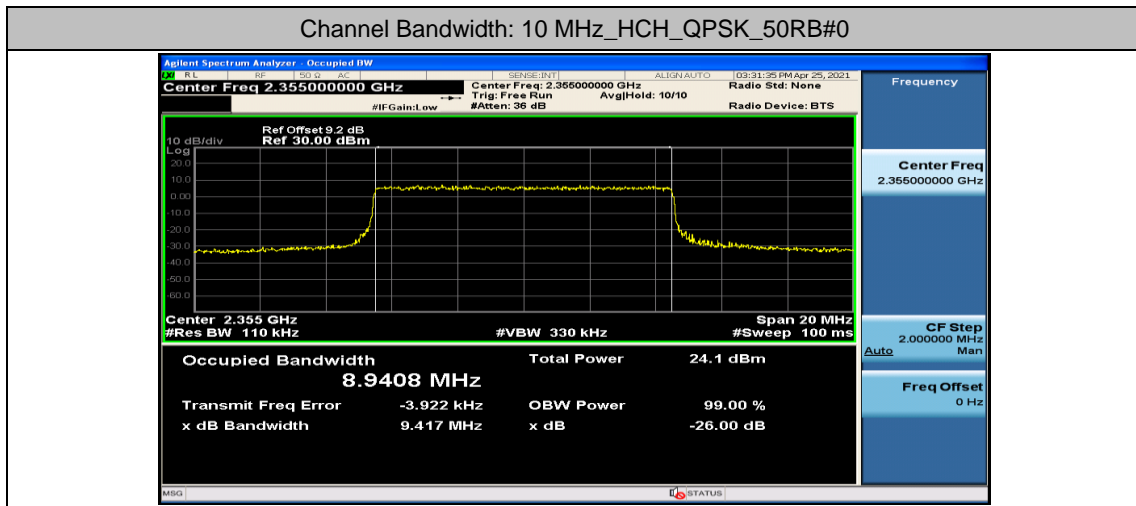






Channel Bandwidth: 10 MHz

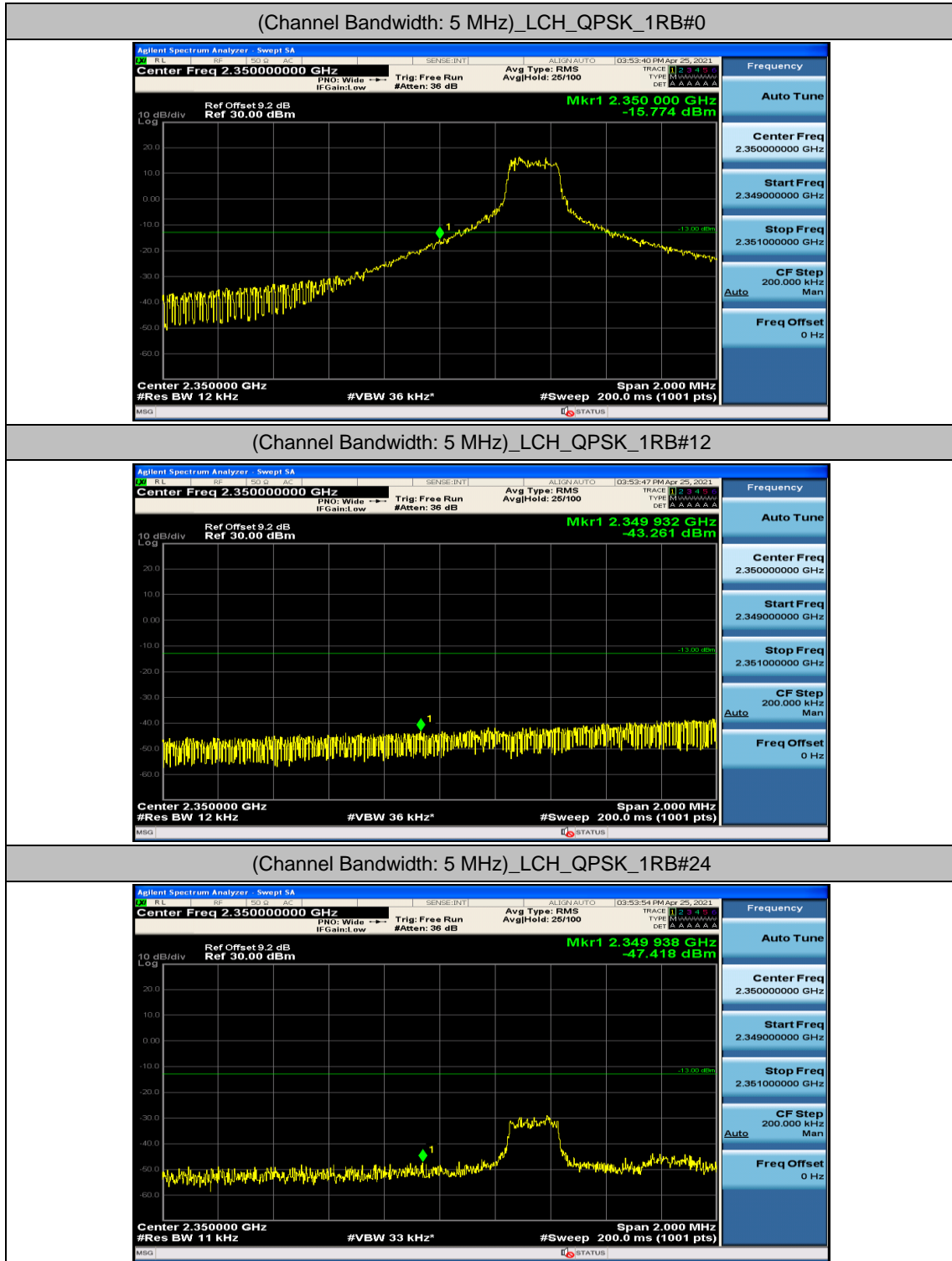


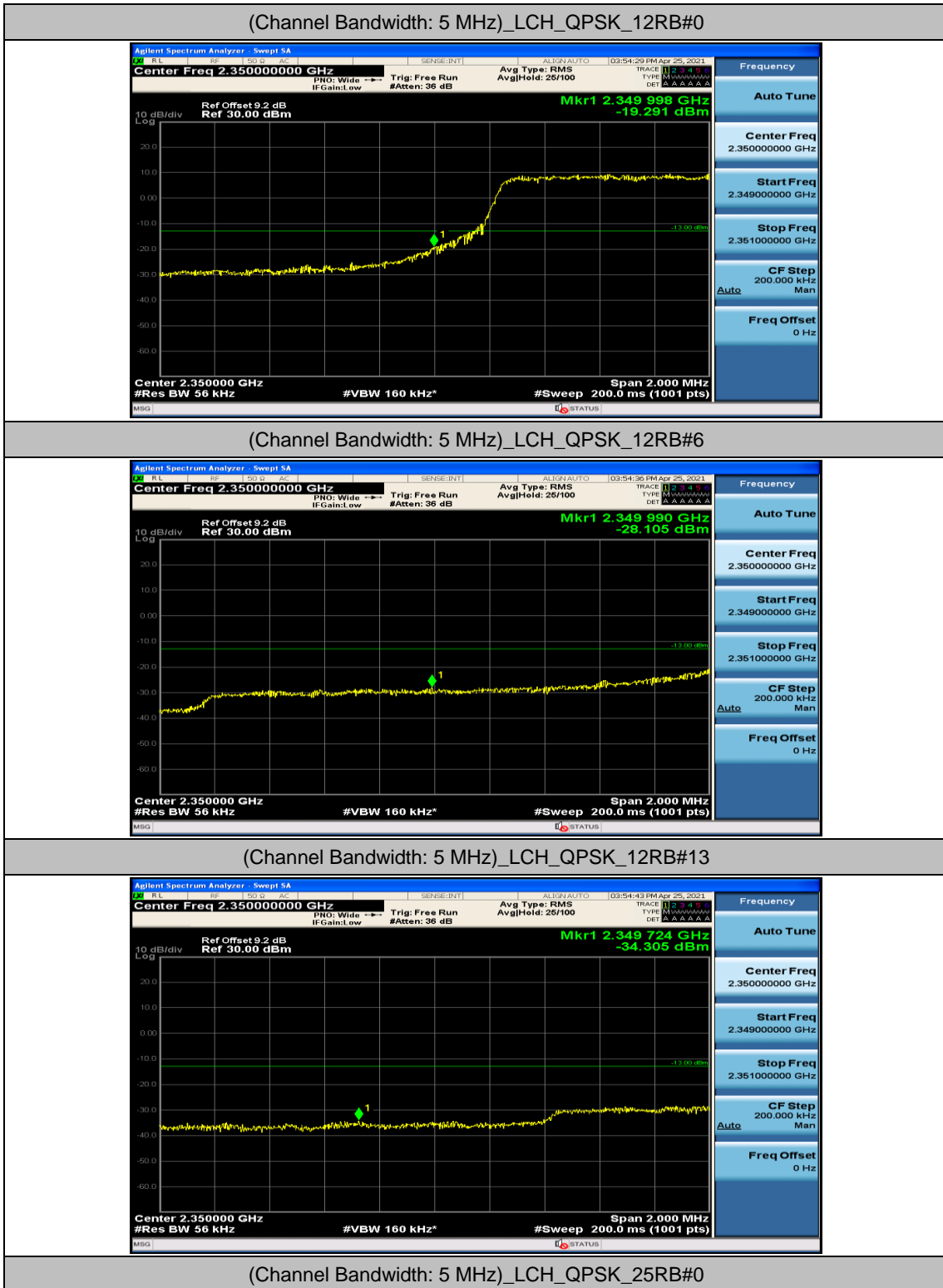


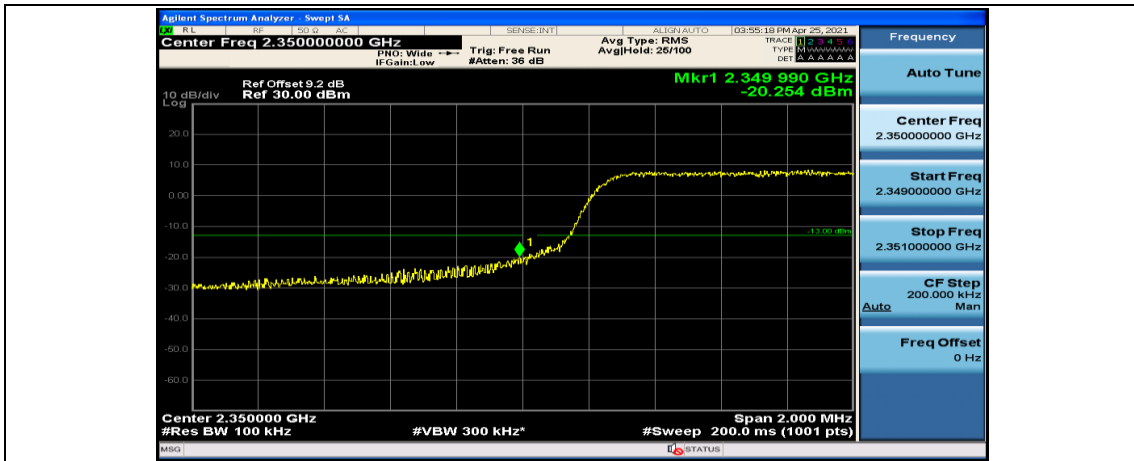
Appendix D: Band Edge

Test Graphs

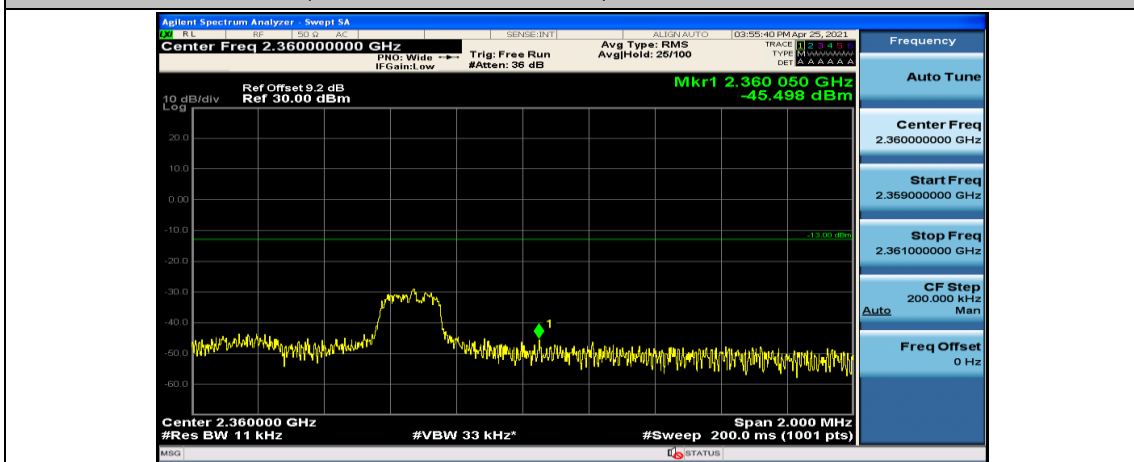
Channel Bandwidth: 5 MHz



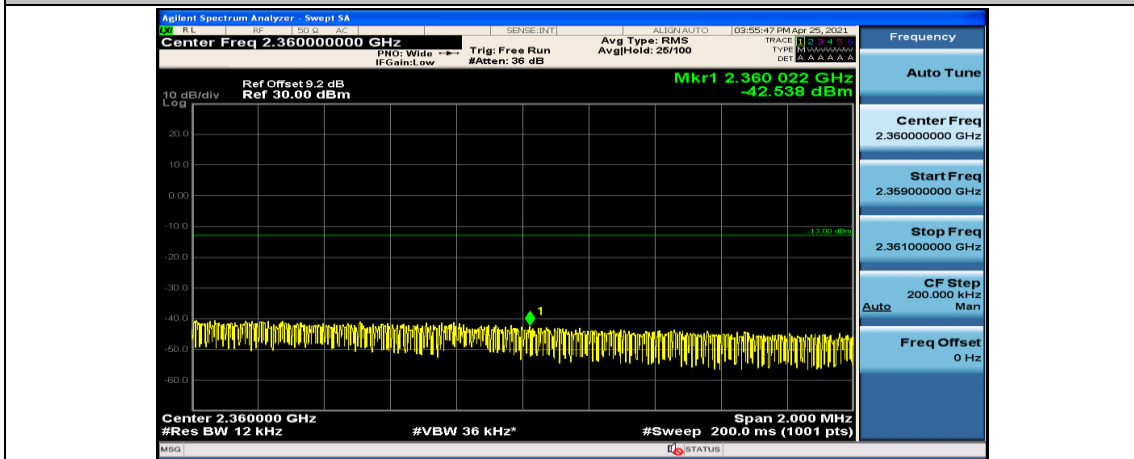




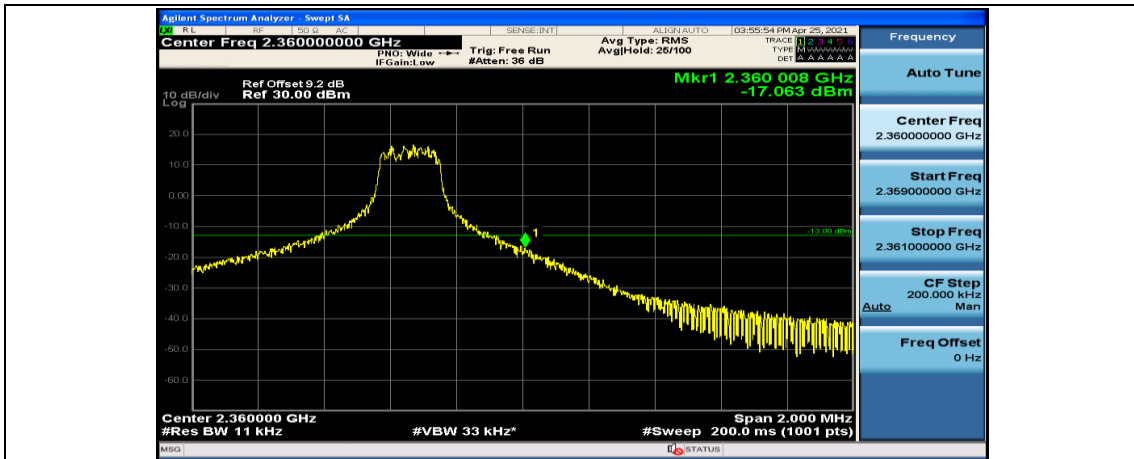
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



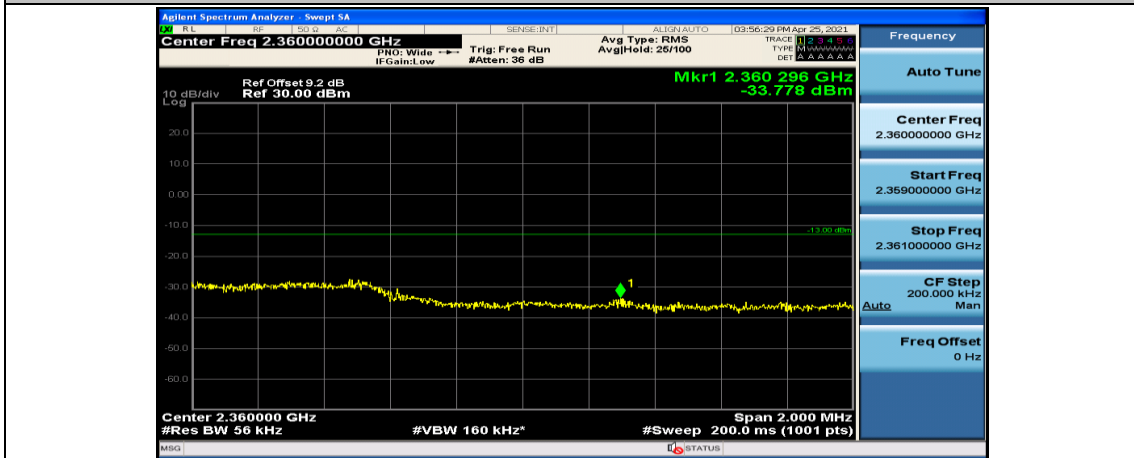
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



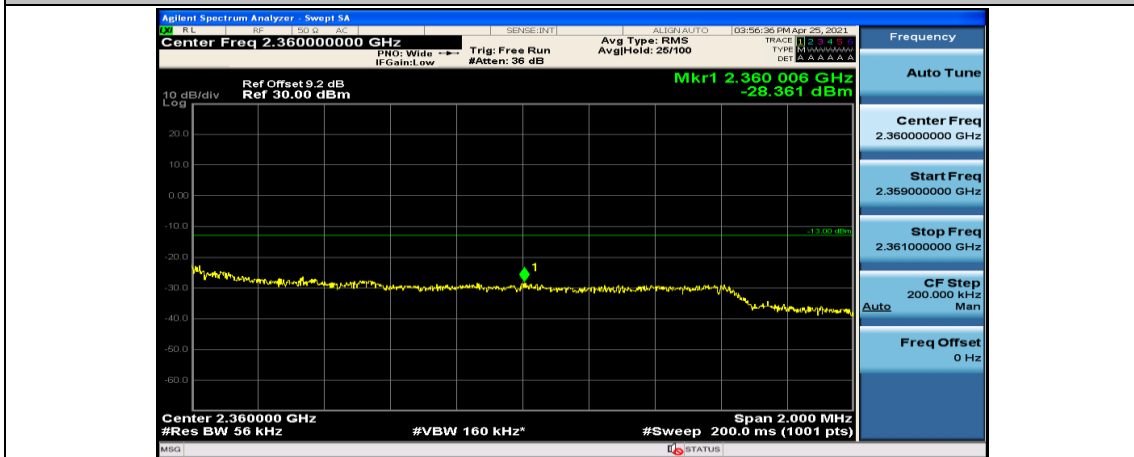
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



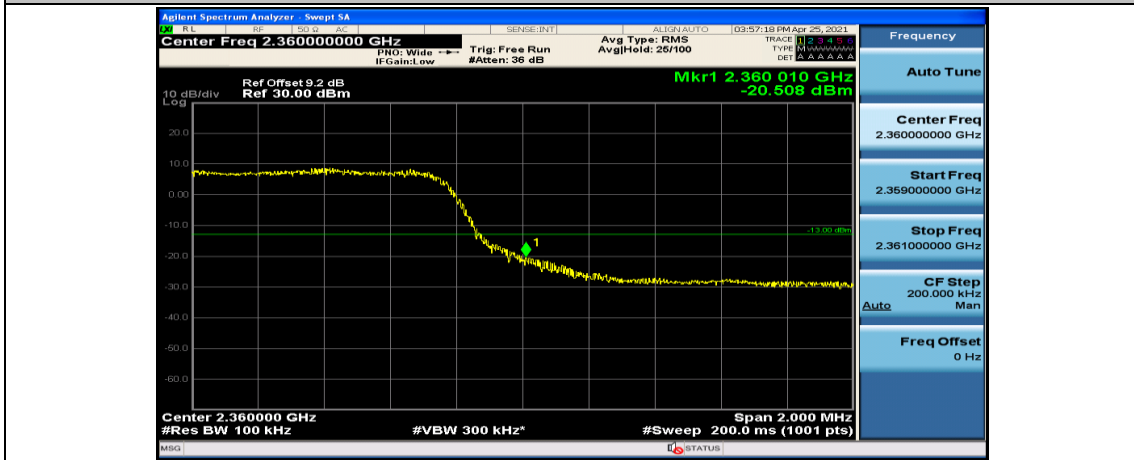
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



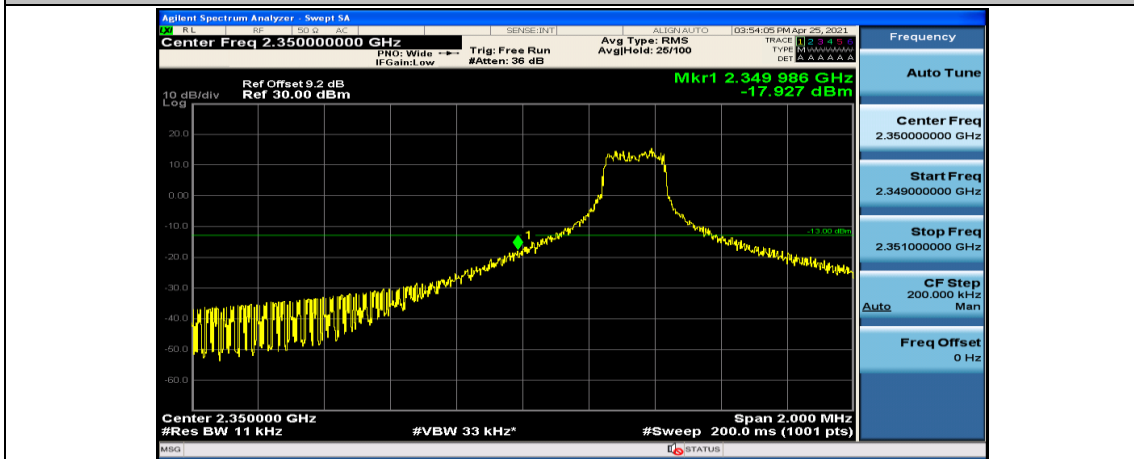
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



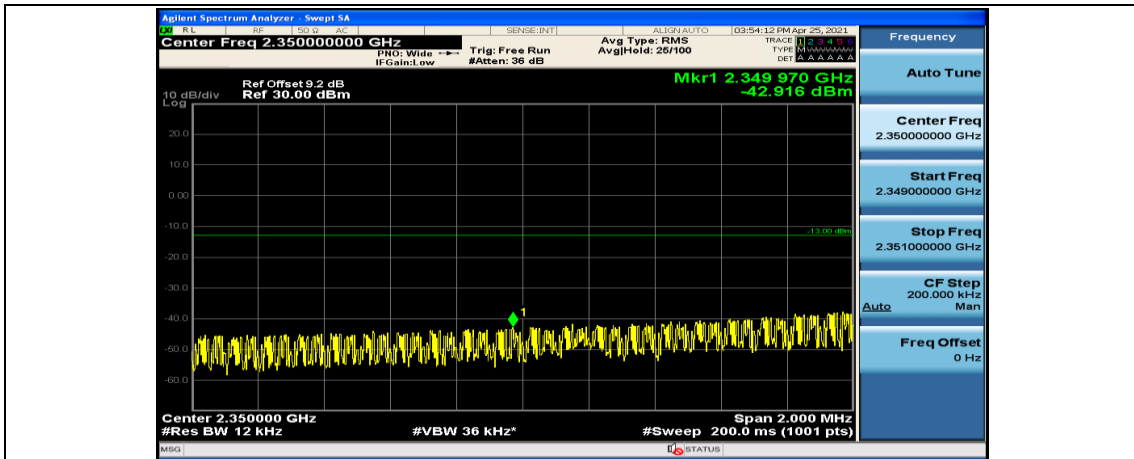
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



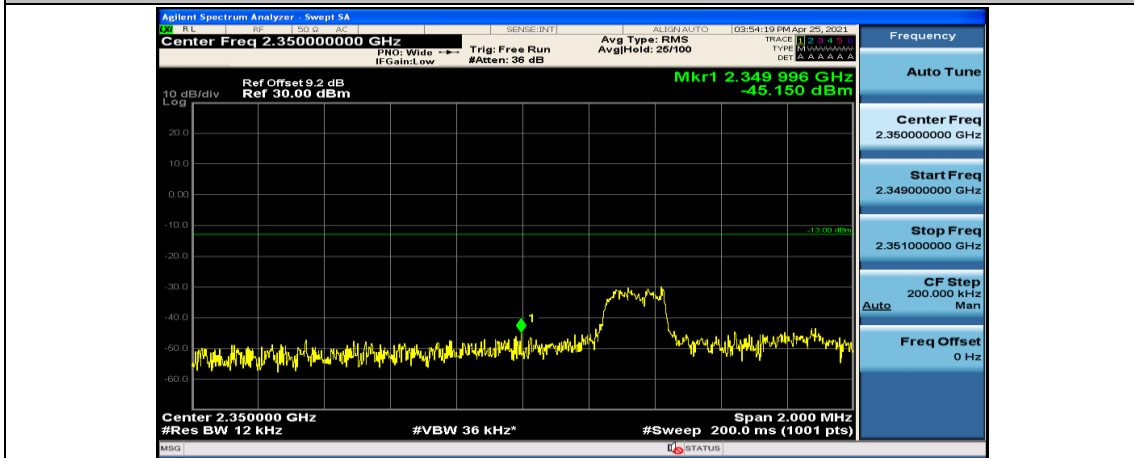
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



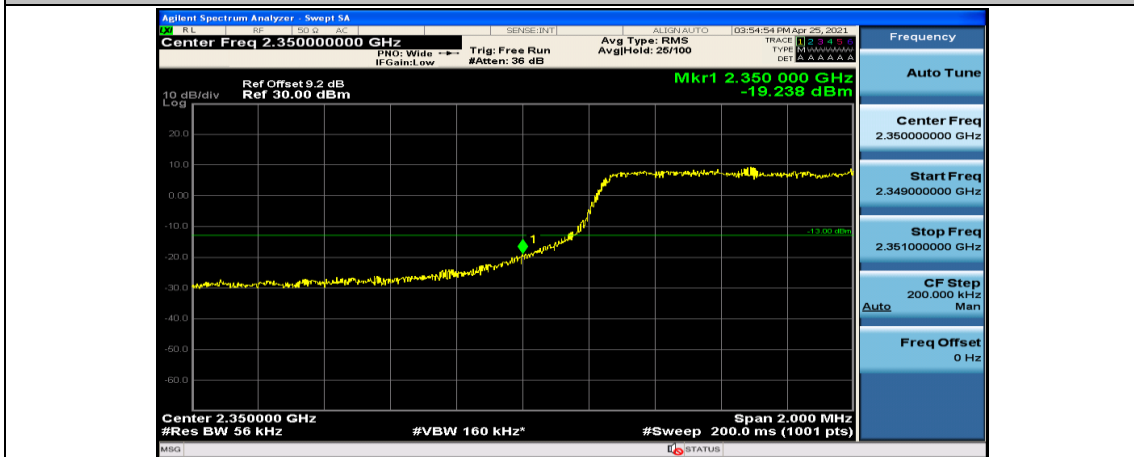
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



(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

