

Appendix for Band 26(814-824MHz)

Product Name: 4G Power Socket
Model No: GSMSOCUS4G

Appendix A: Average Power Output Data

Test Result

Channel Bandwidth: 1.4 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.97	PASS
		1	3	23.34	PASS
		1	5	23.30	PASS
		3	0	23.09	PASS
		3	2	23.20	PASS
		3	3	23.12	PASS
		6	0	22.01	PASS
	MCH	1	0	23.88	PASS
		1	3	23.87	PASS
		1	5	24.18	PASS
		3	0	23.95	PASS
		3	2	23.80	PASS
		3	3	23.72	PASS
		6	0	22.91	PASS
	HCH	1	0	23.97	PASS
		1	3	23.86	PASS
		1	5	23.80	PASS
		3	0	23.87	PASS
		3	2	23.80	PASS
		3	3	23.81	PASS
		6	0	22.91	PASS
16QAM	LCH	1	0	22.14	PASS
		1	3	22.27	PASS
		1	5	22.13	PASS
		3	0	22.40	PASS
		3	2	22.48	PASS
		3	3	22.41	PASS
		6	0	21.06	PASS
	MCH	1	0	22.90	PASS
		1	3	23.20	PASS
		1	5	23.14	PASS
		3	0	22.81	PASS
		3	2	22.92	PASS

		3	3	23.10	PASS
		6	0	21.61	PASS
	HCH	1	0	22.94	PASS
		1	3	22.87	PASS
		1	5	22.78	PASS
		3	0	22.88	PASS
		3	2	22.71	PASS
		3	3	22.63	PASS
		6	0	22.21	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.35	PASS
		1	7	23.47	PASS
		1	14	23.55	PASS
		8	0	22.15	PASS
		8	4	22.24	PASS
		8	7	22.27	PASS
		15	0	22.12	PASS
	MCH	1	0	23.55	PASS
		1	7	23.72	PASS
		1	14	23.55	PASS
		8	0	22.62	PASS
		8	4	22.59	PASS
		8	7	22.57	PASS
		15	0	22.54	PASS
	HCH	1	0	23.84	PASS
		1	7	23.99	PASS
		1	14	23.61	PASS
		8	0	22.99	PASS
		8	4	22.91	PASS
		8	7	22.79	PASS
		15	0	22.94	PASS
16QAM	LCH	1	0	22.13	PASS
		1	7	22.88	PASS
		1	14	22.75	PASS
		8	0	21.38	PASS
		8	4	21.47	PASS
		8	7	21.49	PASS
		15	0	21.08	PASS

	MCH	1	0	23.06	PASS
		1	7	23.05	PASS
		1	14	22.74	PASS
		8	0	21.58	PASS
		8	4	21.39	PASS
		8	7	21.35	PASS
		15	0	21.61	PASS
	HCH	1	0	22.88	PASS
		1	7	22.88	PASS
		1	14	22.77	PASS
		8	0	21.83	PASS
		8	4	21.77	PASS
		8	7	21.68	PASS
		15	0	22.03	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.87	PASS
		1	12	23.68	PASS
		1	24	23.46	PASS
		12	0	22.15	PASS
		12	6	22.35	PASS
		12	13	22.37	PASS
		25	0	22.19	PASS
	MCH	1	0	23.52	PASS
		1	12	23.73	PASS
		1	24	23.53	PASS
		12	0	22.62	PASS
		12	6	22.50	PASS
		12	13	22.53	PASS
		25	0	22.64	PASS
	HCH	1	0	23.85	PASS
		1	12	24.08	PASS
		1	24	23.55	PASS
		12	0	22.88	PASS
		12	6	22.84	PASS
		12	13	22.71	PASS
		25	0	22.80	PASS
16QAM	LCH	1	0	21.45	PASS
		1	12	21.93	PASS

		1	24	22.35	PASS
		12	0	21.09	PASS
		12	6	21.29	PASS
		12	13	21.30	PASS
		25	0	21.28	PASS
	MCH	1	0	22.67	PASS
		1	12	22.67	PASS
		1	24	22.05	PASS
		12	0	21.59	PASS
		12	6	21.59	PASS
		12	13	21.47	PASS
		25	0	21.72	PASS
	HCH	1	0	22.04	PASS
		1	12	22.62	PASS
		1	24	21.82	PASS
		12	0	21.72	PASS
		12	6	21.50	PASS
		12	13	21.59	PASS
		25	0	21.68	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	MCH	1	0	23.70	PASS
		1	24	24.21	PASS
		1	49	23.27	PASS
		25	0	22.41	PASS
		25	12	22.51	PASS
		25	25	22.50	PASS
		50	0	22.55	PASS
16QAM	MCH	1	0	22.66	PASS
		1	24	23.60	PASS
		1	49	22.53	PASS
		25	0	21.34	PASS
		25	12	21.42	PASS
		25	25	21.47	PASS
		50	0	21.65	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.21	<13	PASS
		1	3	5.2	<13	PASS
		1	5	5.36	<13	PASS
		3	0	5.52	<13	PASS
		3	2	5.46	<13	PASS
		3	3	5.56	<13	PASS
		6	0	5.96	<13	PASS
	MCH	1	0	4.84	<13	PASS
		1	3	4.53	<13	PASS
		1	5	4.59	<13	PASS
		3	0	4.94	<13	PASS
		3	2	4.73	<13	PASS
		3	3	4.79	<13	PASS
		6	0	5.3	<13	PASS
	HCH	1	0	3.92	<13	PASS
		1	3	3.82	<13	PASS
		1	5	3.91	<13	PASS
		3	0	4.12	<13	PASS
		3	2	4.12	<13	PASS
		3	3	4.1	<13	PASS
		6	0	4.77	<13	PASS
16QAM	LCH	1	0	6.08	<13	PASS
		1	3	6.09	<13	PASS
		1	5	6.34	<13	PASS
		3	0	6.43	<13	PASS
		3	2	6.41	<13	PASS
		3	3	6.48	<13	PASS
		6	0	6.88	<13	PASS
	MCH	1	0	5.72	<13	PASS
		1	3	5.44	<13	PASS
		1	5	5.45	<13	PASS
		3	0	5.77	<13	PASS

		3	2	5.61	<13	PASS
		3	3	5.64	<13	PASS
		6	0	6.18	<13	PASS
	HCH	1	0	4.79	<13	PASS
		1	3	4.85	<13	PASS
		1	5	4.98	<13	PASS
		3	0	4.95	<13	PASS
		3	2	4.9	<13	PASS
		3	3	4.97	<13	PASS
		6	0	5.6	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.33	<13	PASS
		1	7	5.28	<13	PASS
		1	14	5.34	<13	PASS
		8	0	5.66	<13	PASS
		8	4	5.55	<13	PASS
		8	7	5.59	<13	PASS
		15	0	5.95	<13	PASS
	MCH	1	0	5.05	<13	PASS
		1	7	4.53	<13	PASS
		1	14	4.36	<13	PASS
		8	0	5.31	<13	PASS
		8	4	5.06	<13	PASS
		8	7	4.96	<13	PASS
		15	0	5.39	<13	PASS
	HCH	1	0	4.2	<13	PASS
		1	7	3.93	<13	PASS
		1	14	4.14	<13	PASS
		8	0	4.64	<13	PASS
		8	4	4.58	<13	PASS
		8	7	4.62	<13	PASS
		15	0	4.79	<13	PASS
16QAM	LCH	1	0	6.18	<13	PASS
		1	7	6.13	<13	PASS
		1	14	6	<13	PASS
		8	0	6.43	<13	PASS
		8	4	6.34	<13	PASS

		8	7	6.33	<13	PASS
		15	0	6.84	<13	PASS
	MCH	1	0	5.8	<13	PASS
		1	7	5.53	<13	PASS
		1	14	5.34	<13	PASS
		8	0	6.04	<13	PASS
		8	4	5.86	<13	PASS
		8	7	5.84	<13	PASS
		15	0	6.17	<13	PASS
	HCH	1	0	5.07	<13	PASS
		1	7	4.89	<13	PASS
		1	14	4.93	<13	PASS
		8	0	5.5	<13	PASS
		8	4	5.41	<13	PASS
		8	7	5.52	<13	PASS
		15	0	5.63	<13	PASS

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	5.34	<13	PASS
		1	12	5.18	<13	PASS
		1	24	4.82	<13	PASS
		12	0	5.54	<13	PASS
		12	6	5.37	<13	PASS
		12	13	5.29	<13	PASS
		25	0	5.73	<13	PASS
	MCH	1	0	5.18	<13	PASS
		1	12	4.61	<13	PASS
		1	24	4.21	<13	PASS
		12	0	5.23	<13	PASS
		12	6	5.05	<13	PASS
		12	13	4.77	<13	PASS
		25	0	5.31	<13	PASS
	HCH	1	0	4.62	<13	PASS
		1	12	4.05	<13	PASS
		1	24	4.21	<13	PASS
		12	0	4.8	<13	PASS
		12	6	4.59	<13	PASS
		12	13	4.55	<13	PASS

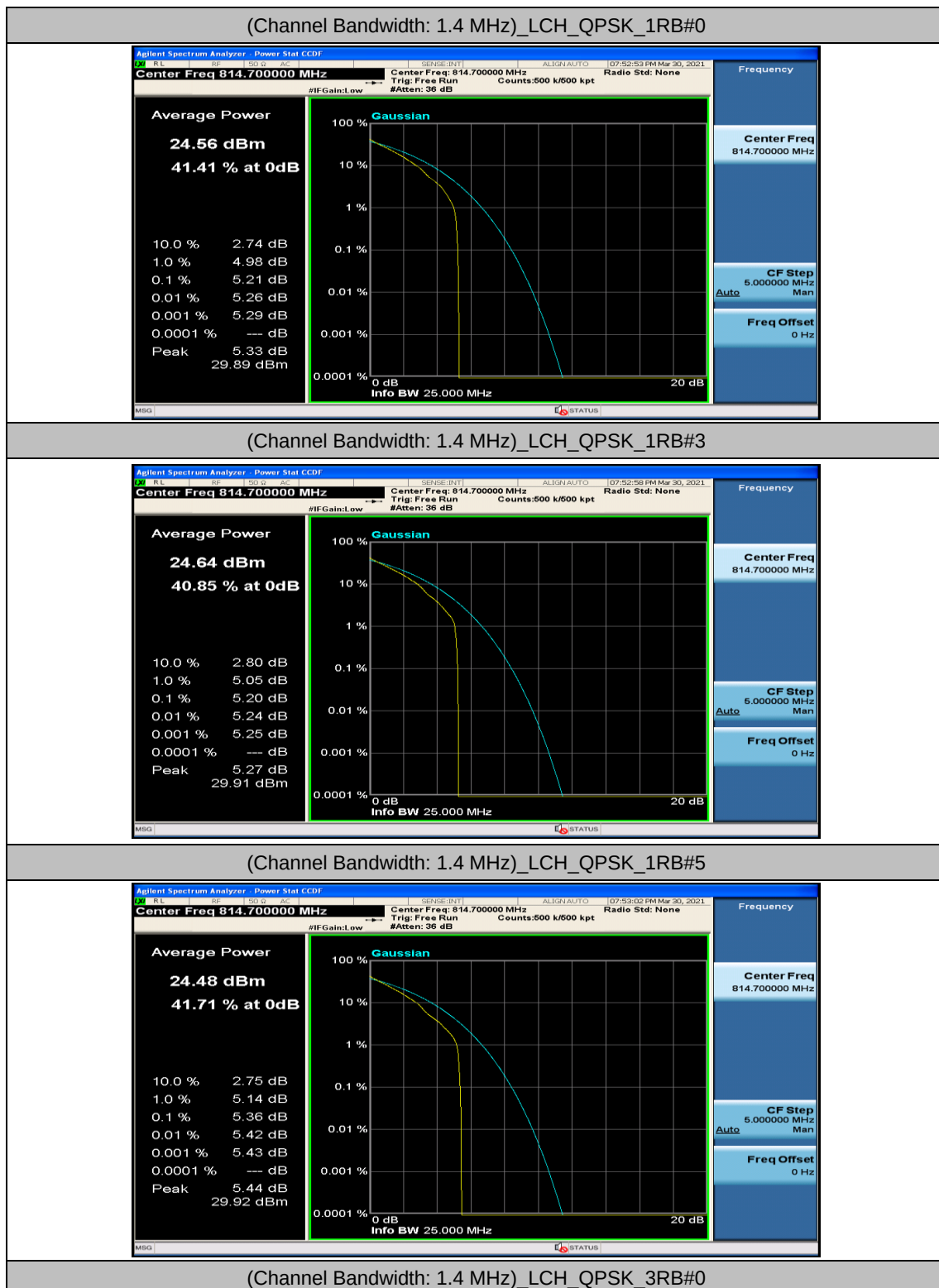
		25	0	4.95	<13	PASS
16QAM	LCH	1	0	6.04	<13	PASS
		1	12	5.88	<13	PASS
		1	24	5.58	<13	PASS
		12	0	6.4	<13	PASS
		12	6	6.16	<13	PASS
		12	13	6.14	<13	PASS
		25	0	6.5	<13	PASS
	MCH	1	0	5.96	<13	PASS
		1	12	5.38	<13	PASS
		1	24	5.22	<13	PASS
		12	0	6.13	<13	PASS
		12	6	5.8	<13	PASS
		12	13	5.68	<13	PASS
		25	0	6.12	<13	PASS
	HCH	1	0	5.4	<13	PASS
		1	12	5	<13	PASS
		1	24	4.9	<13	PASS
		12	0	5.67	<13	PASS
		12	6	5.41	<13	PASS
		12	13	5.45	<13	PASS
		25	0	5.71	<13	PASS

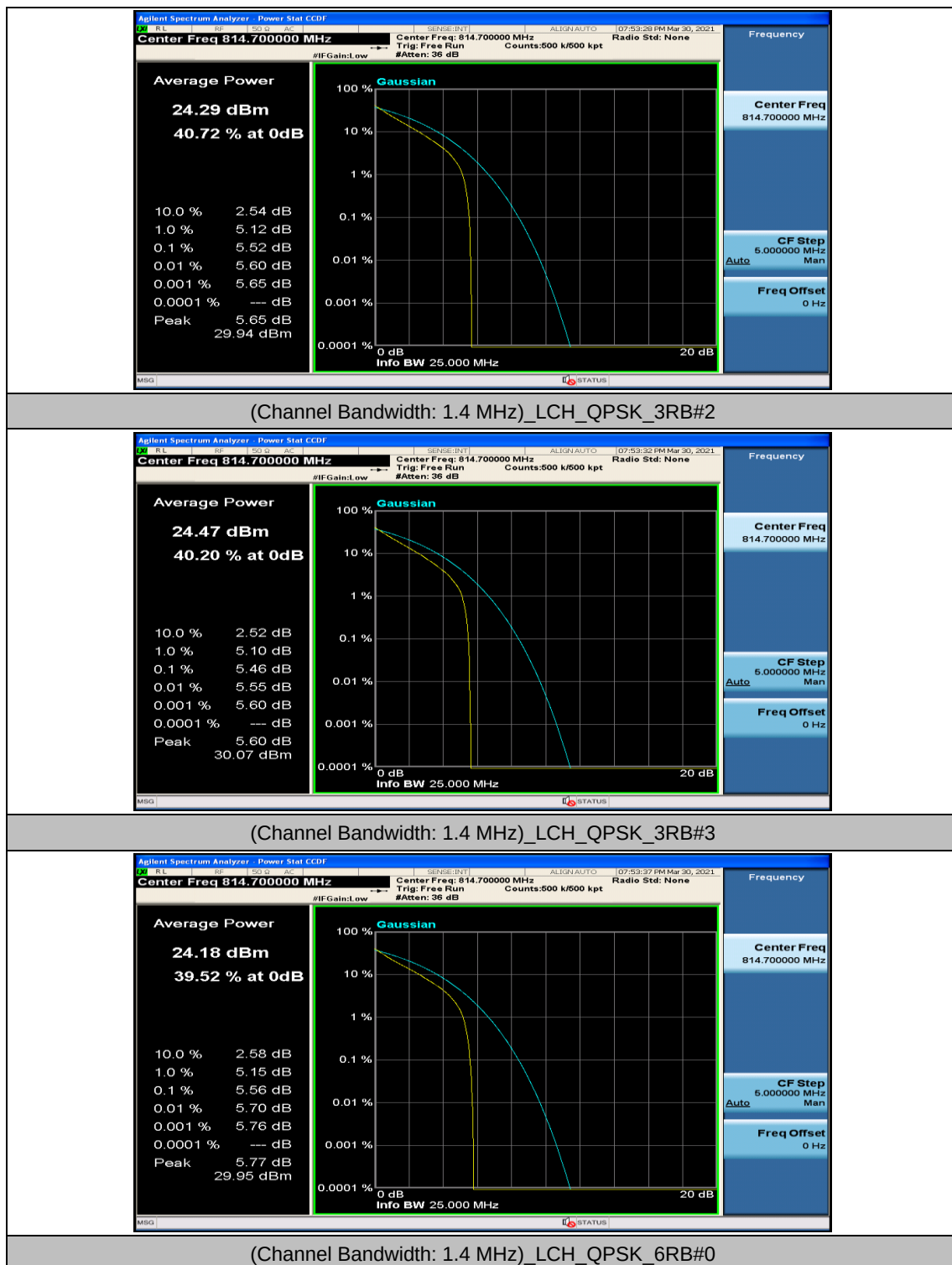
Channel Bandwidth: 10 MHz

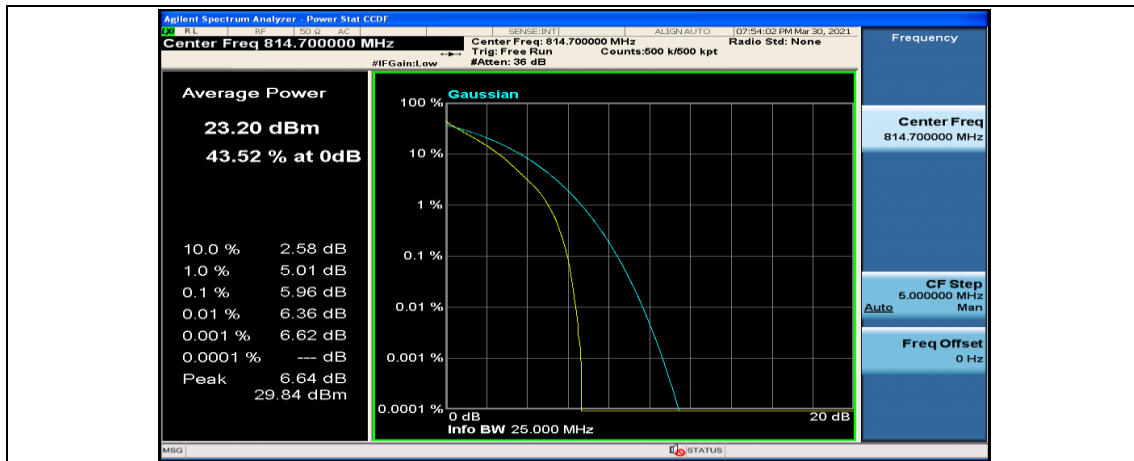
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	5.27	<13	PASS
		1	24	4.59	<13	PASS
		1	49	3.9	<13	PASS
		25	0	5.35	<13	PASS
		25	12	5.01	<13	PASS
		25	25	4.76	<13	PASS
		50	0	5.24	<13	PASS
16QAM	MCH	1	0	6	<13	PASS
		1	24	5.06	<13	PASS
		1	49	4.98	<13	PASS
		25	0	6.24	<13	PASS
		25	12	5.86	<13	PASS
		25	25	5.61	<13	PASS
		50	0	6.1	<13	PASS

Test Graphs

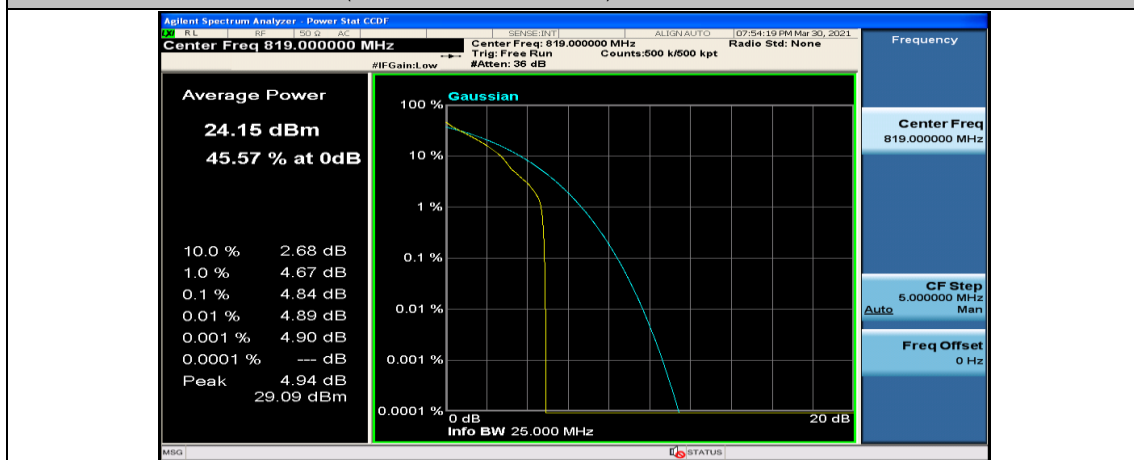
Channel Bandwidth: 1.4 MHz



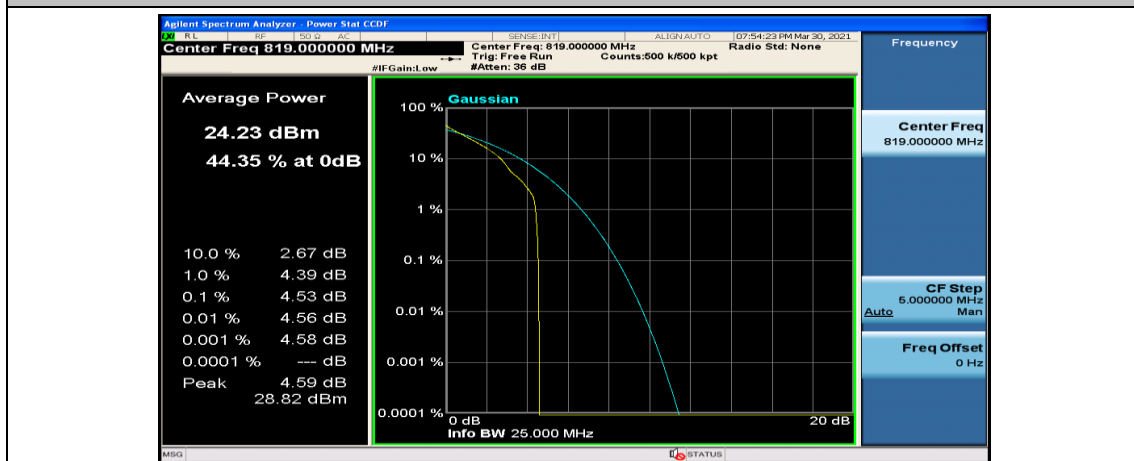




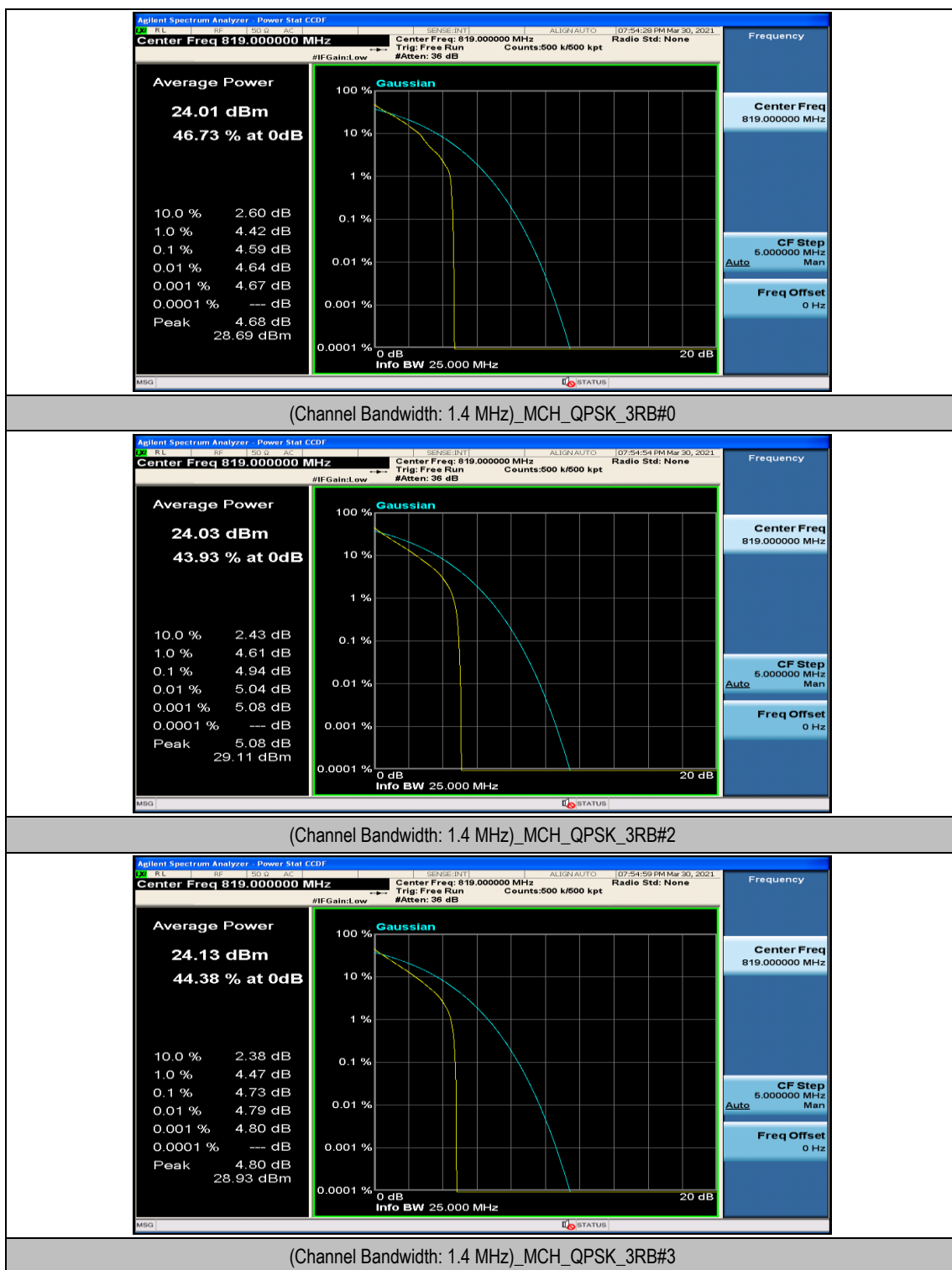
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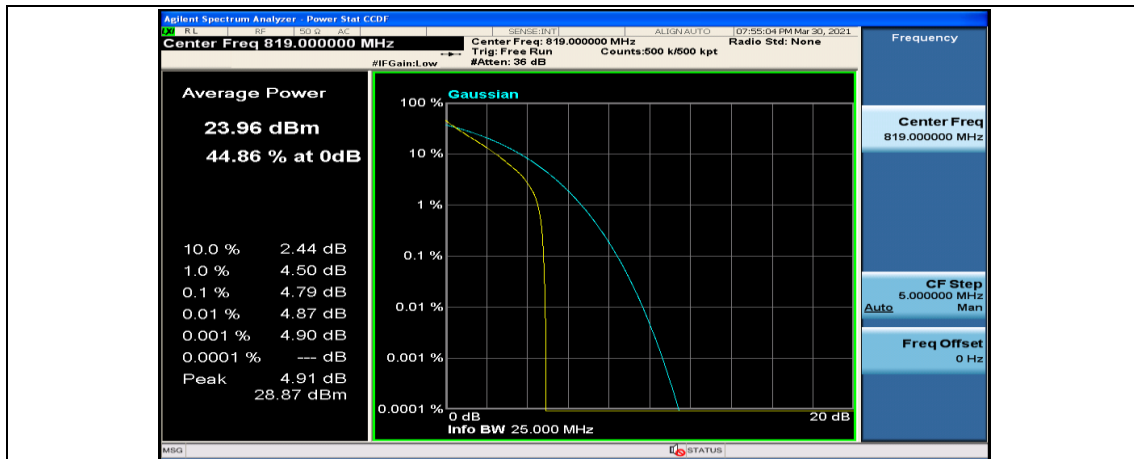


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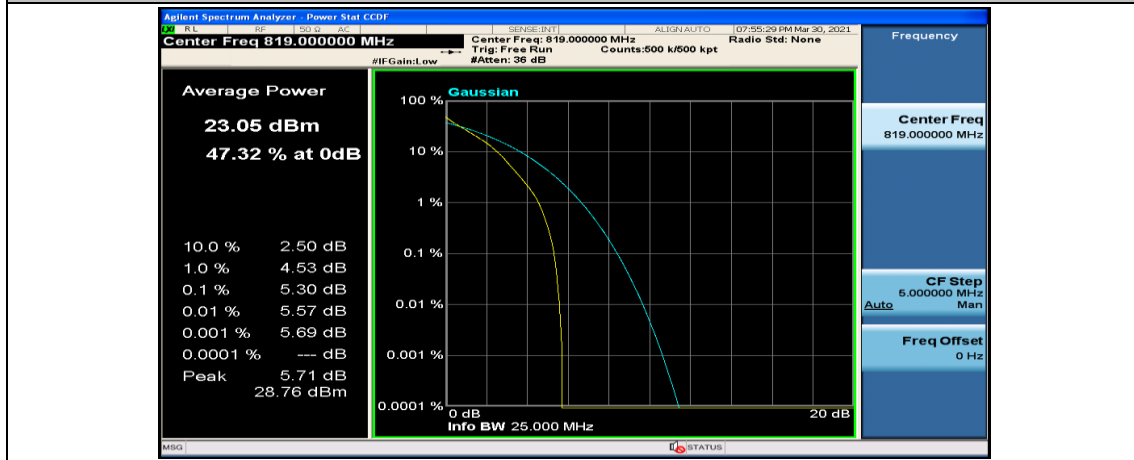


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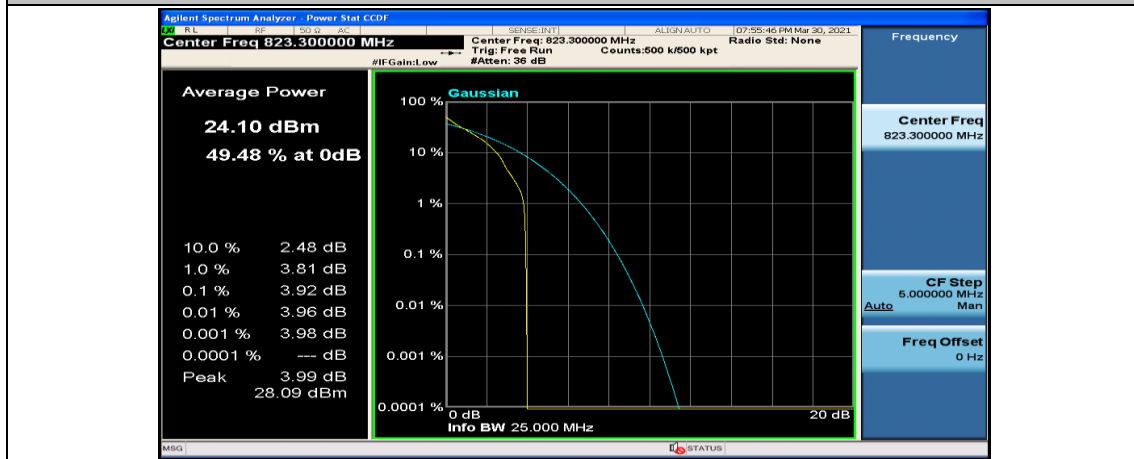




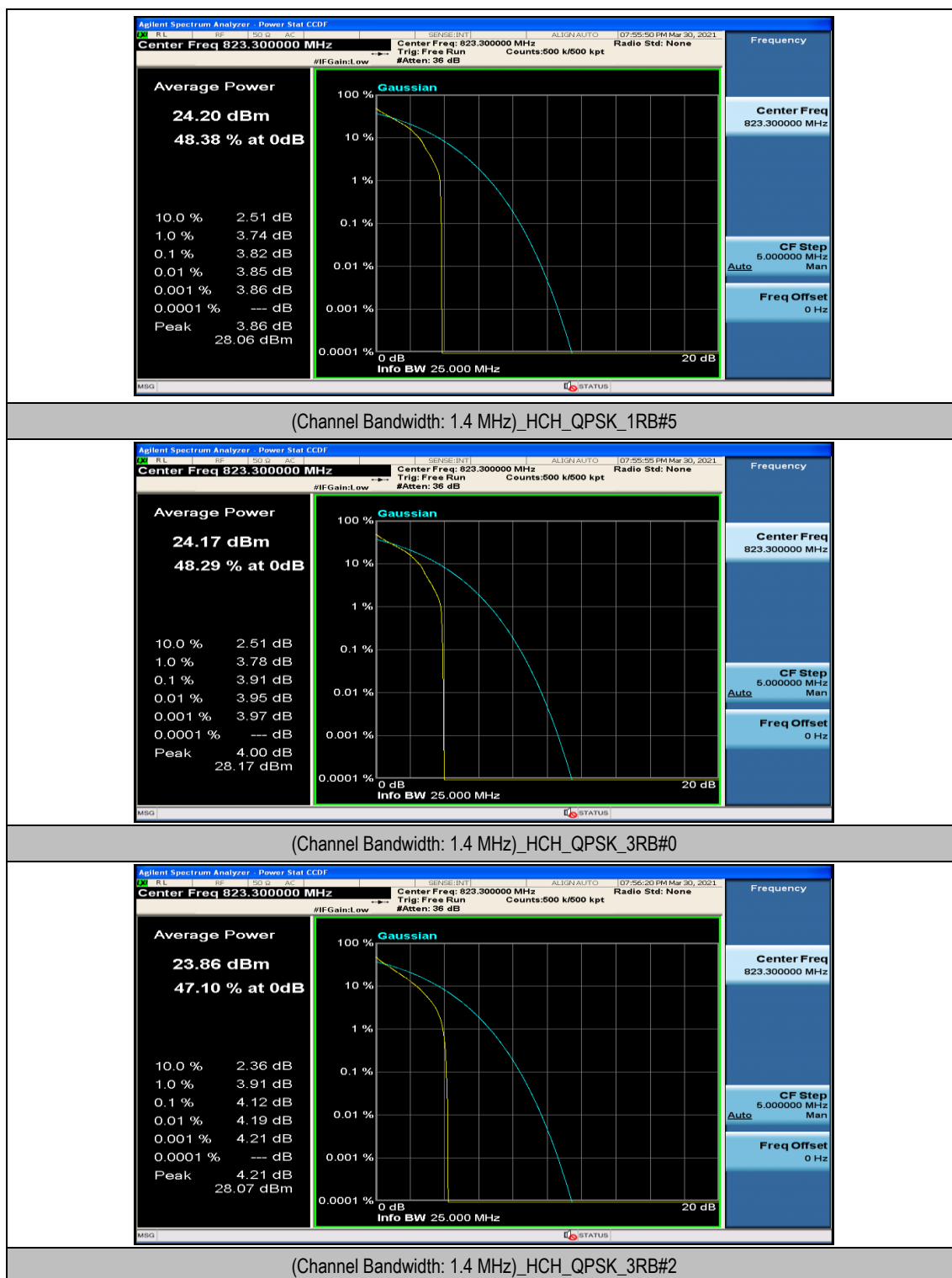
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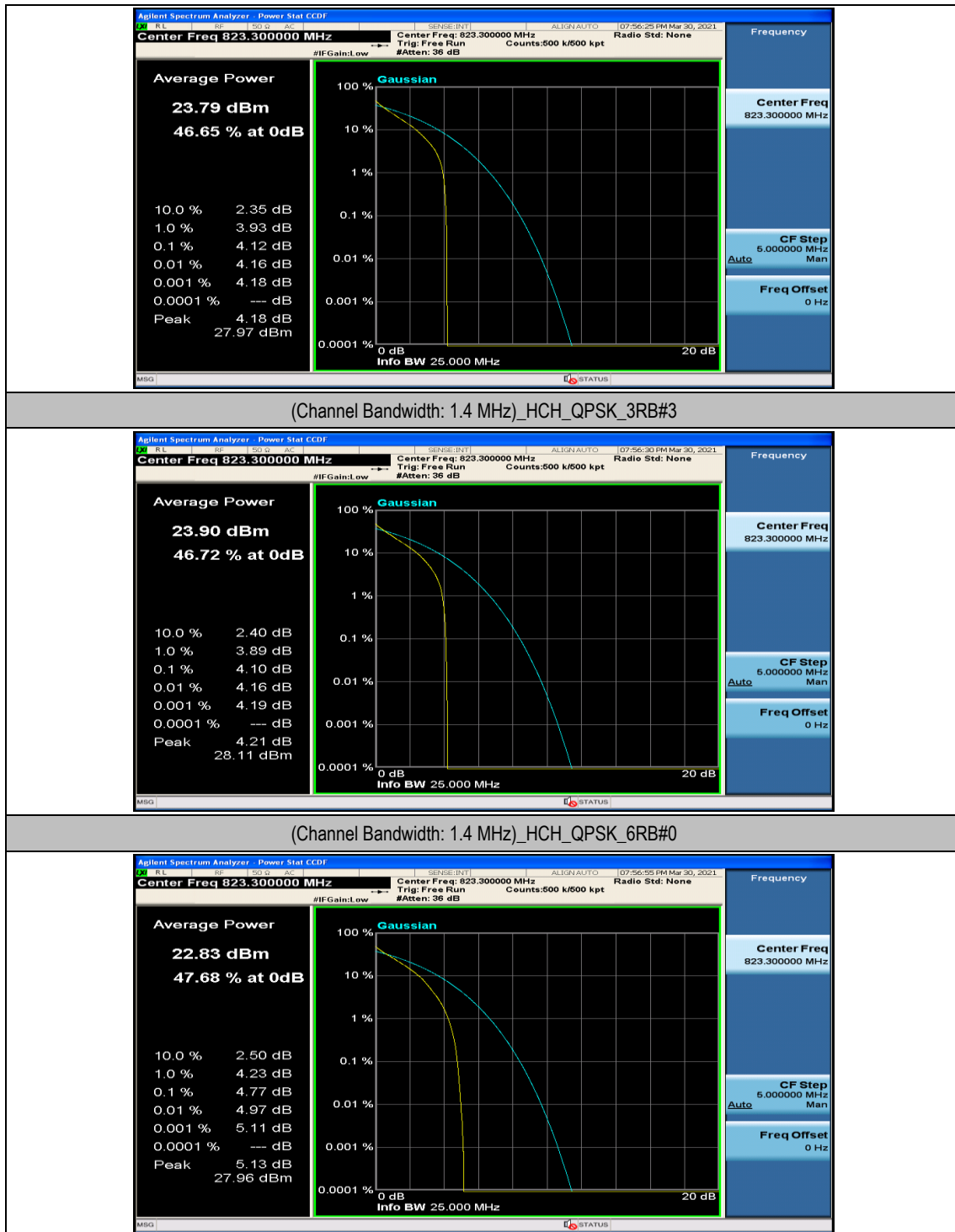


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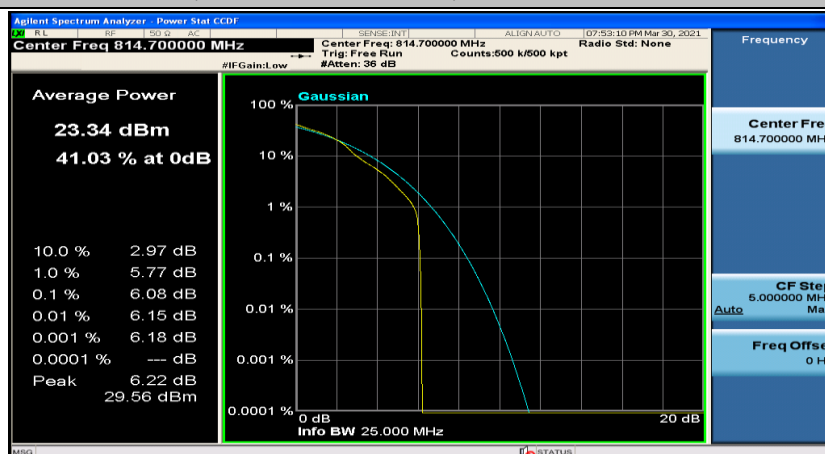


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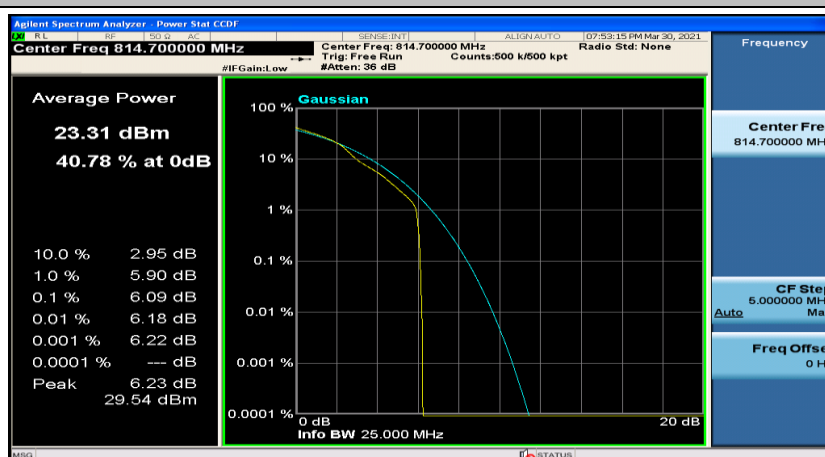




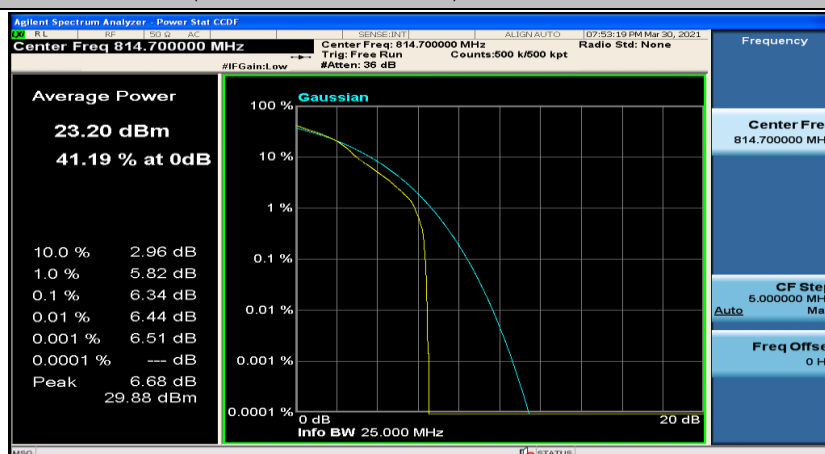
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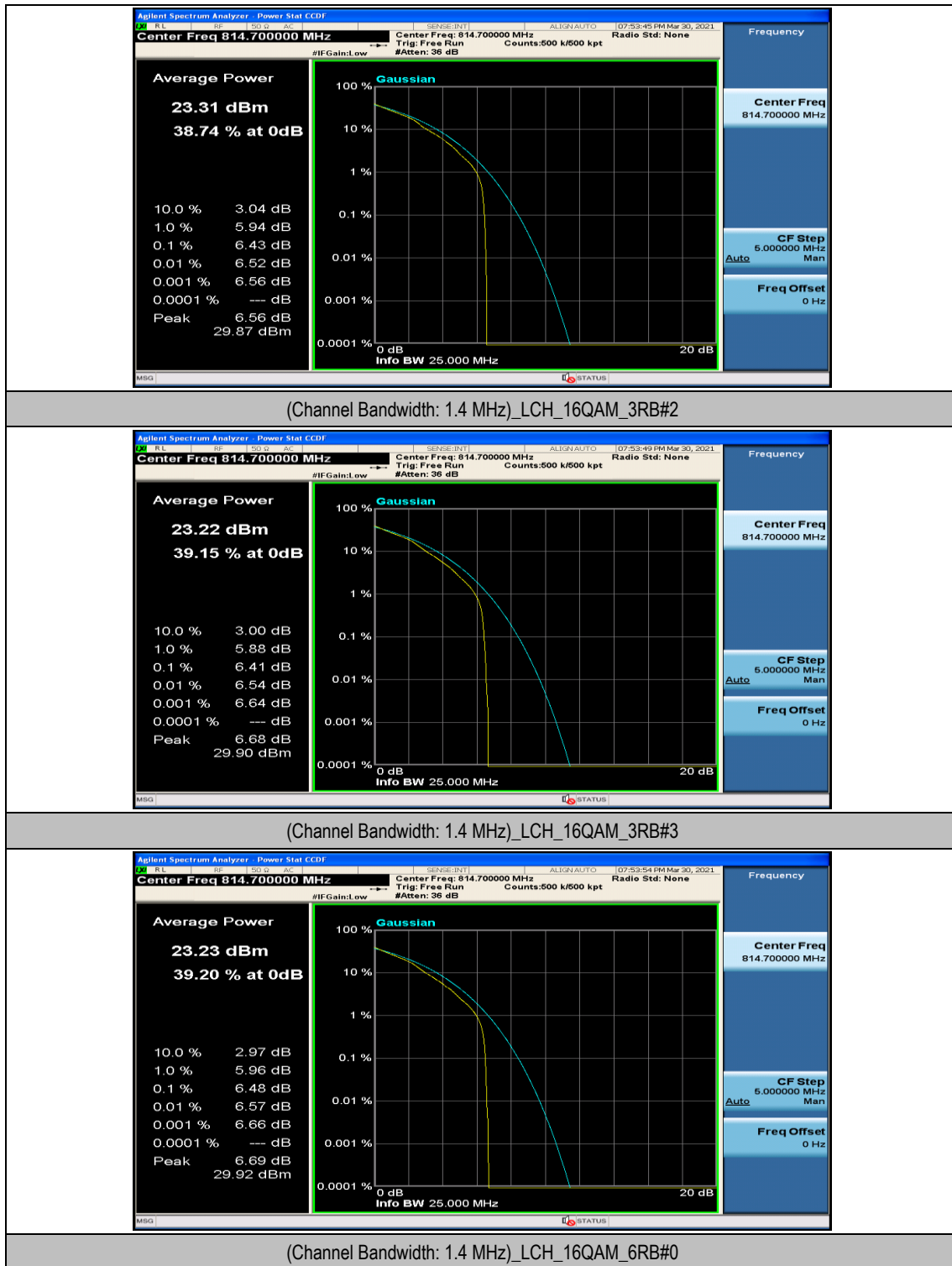
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(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

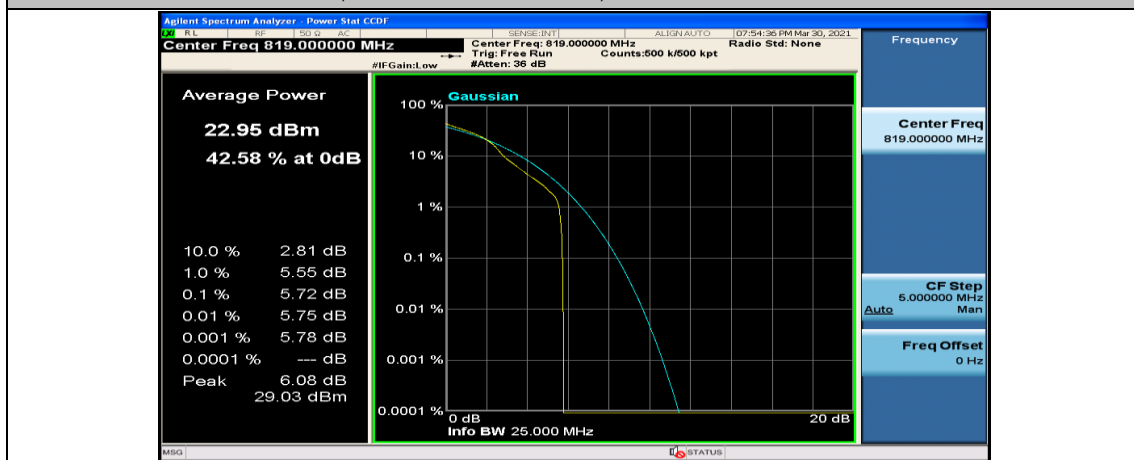


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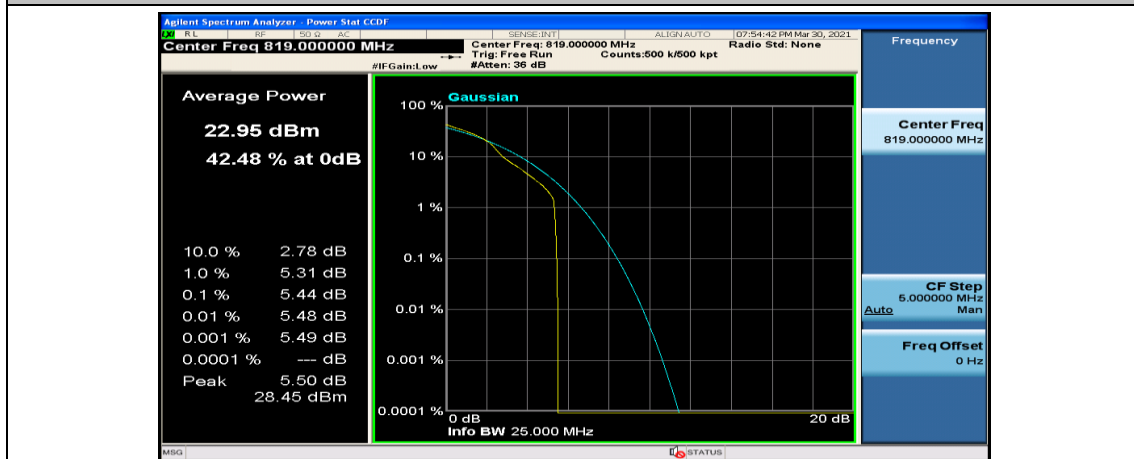




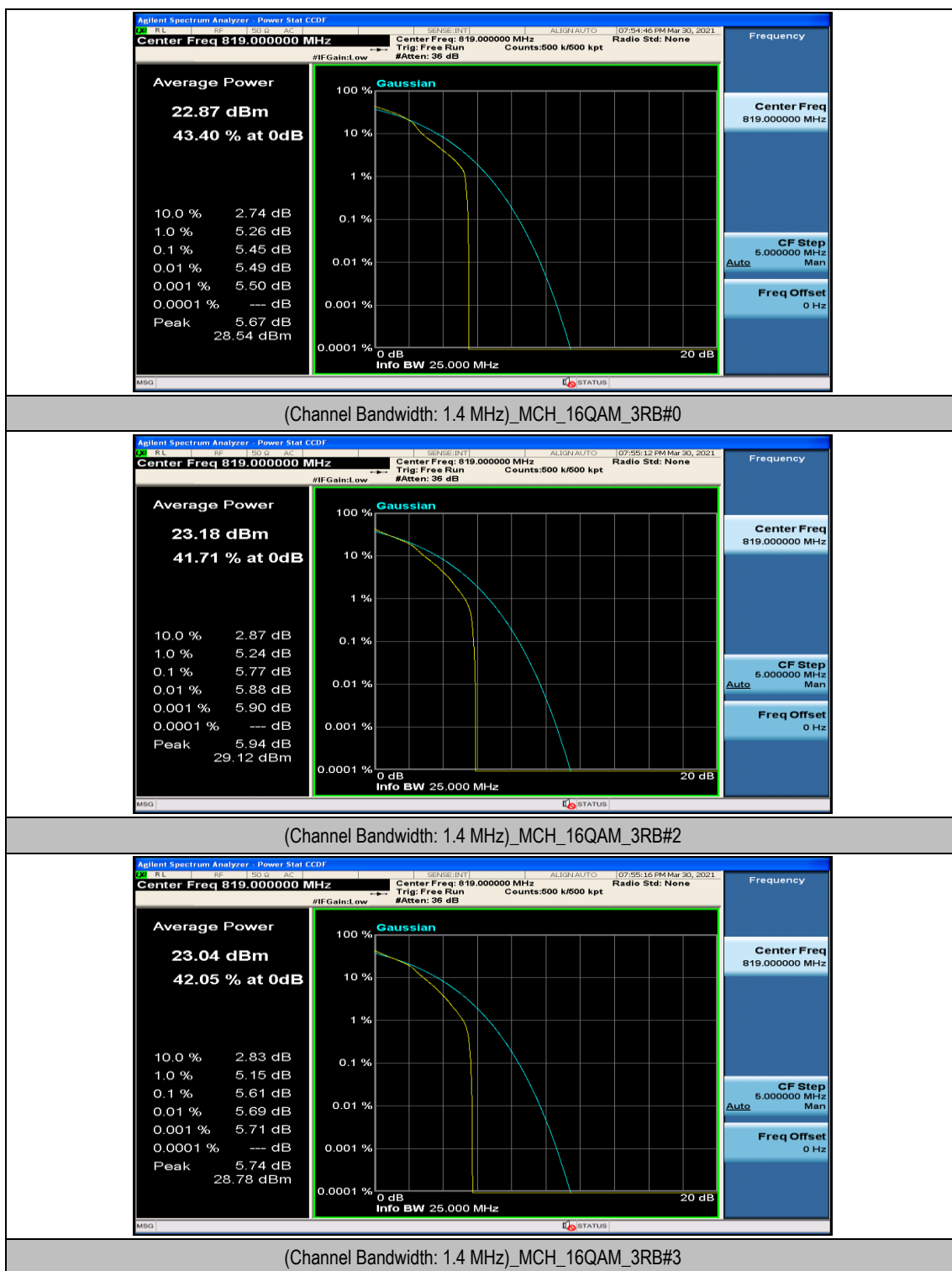
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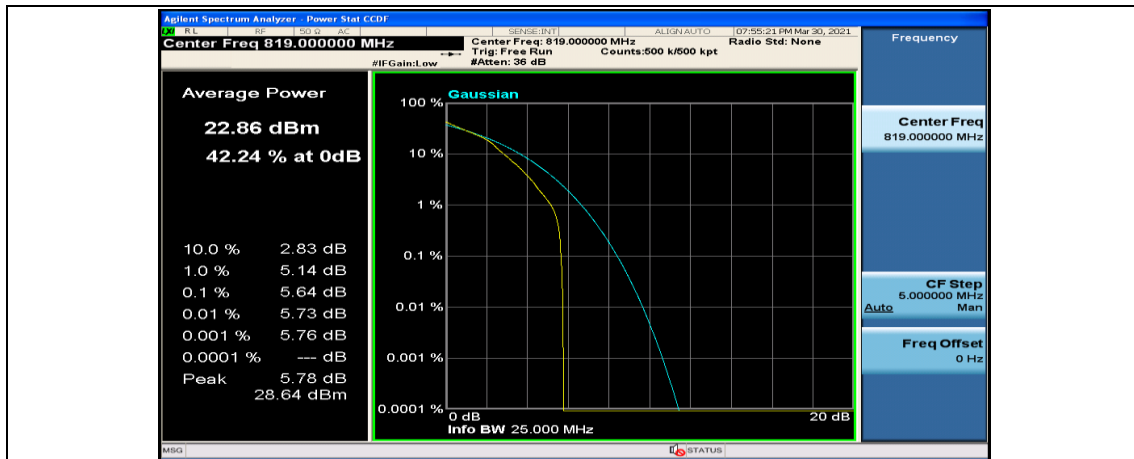


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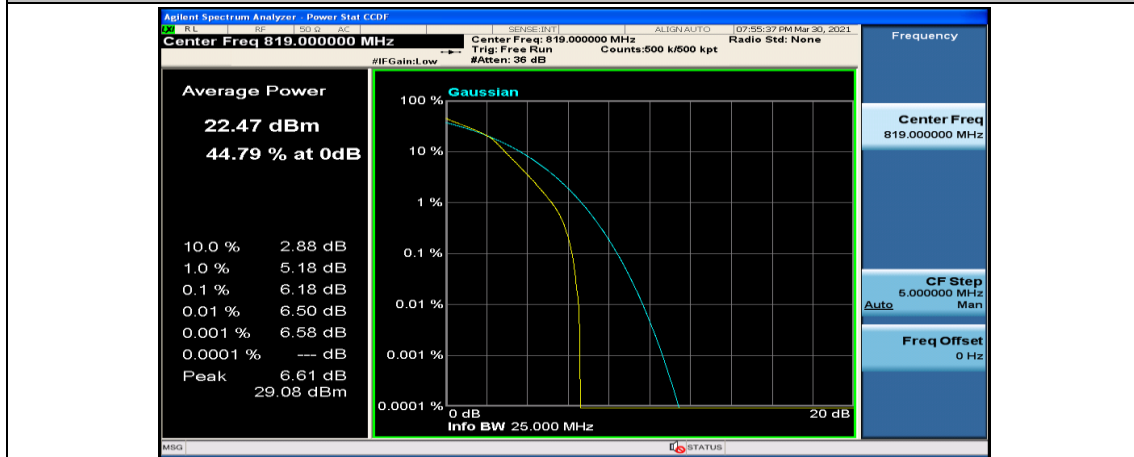


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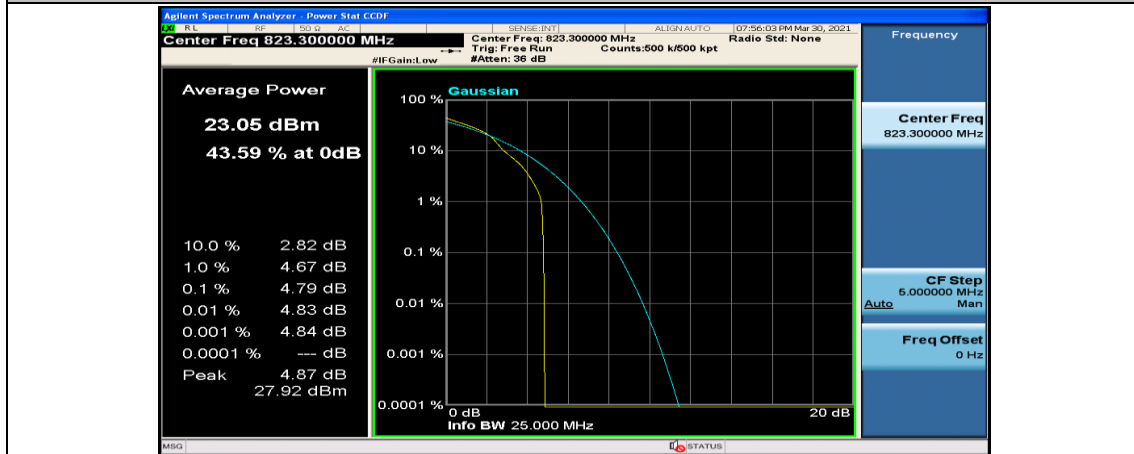




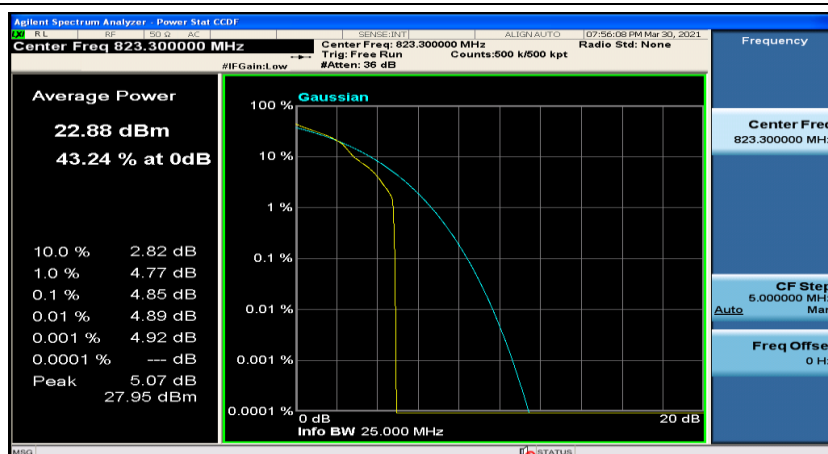
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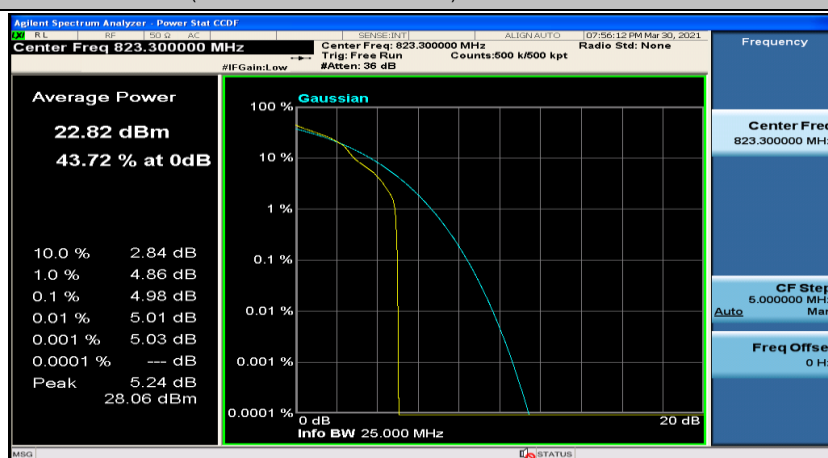
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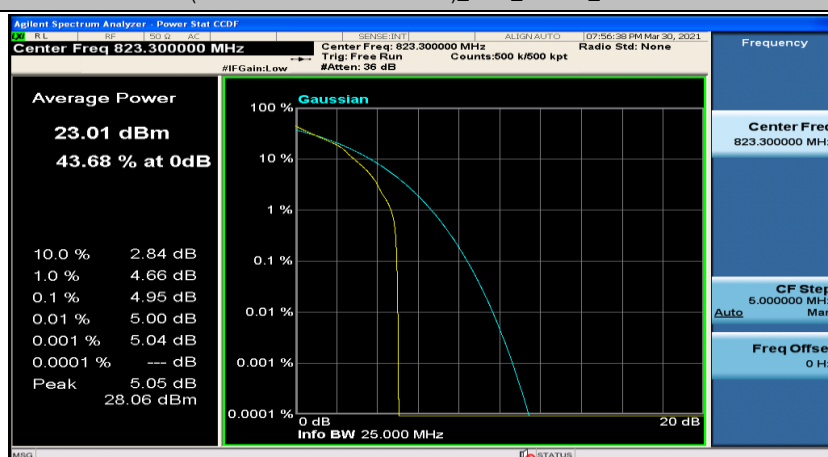
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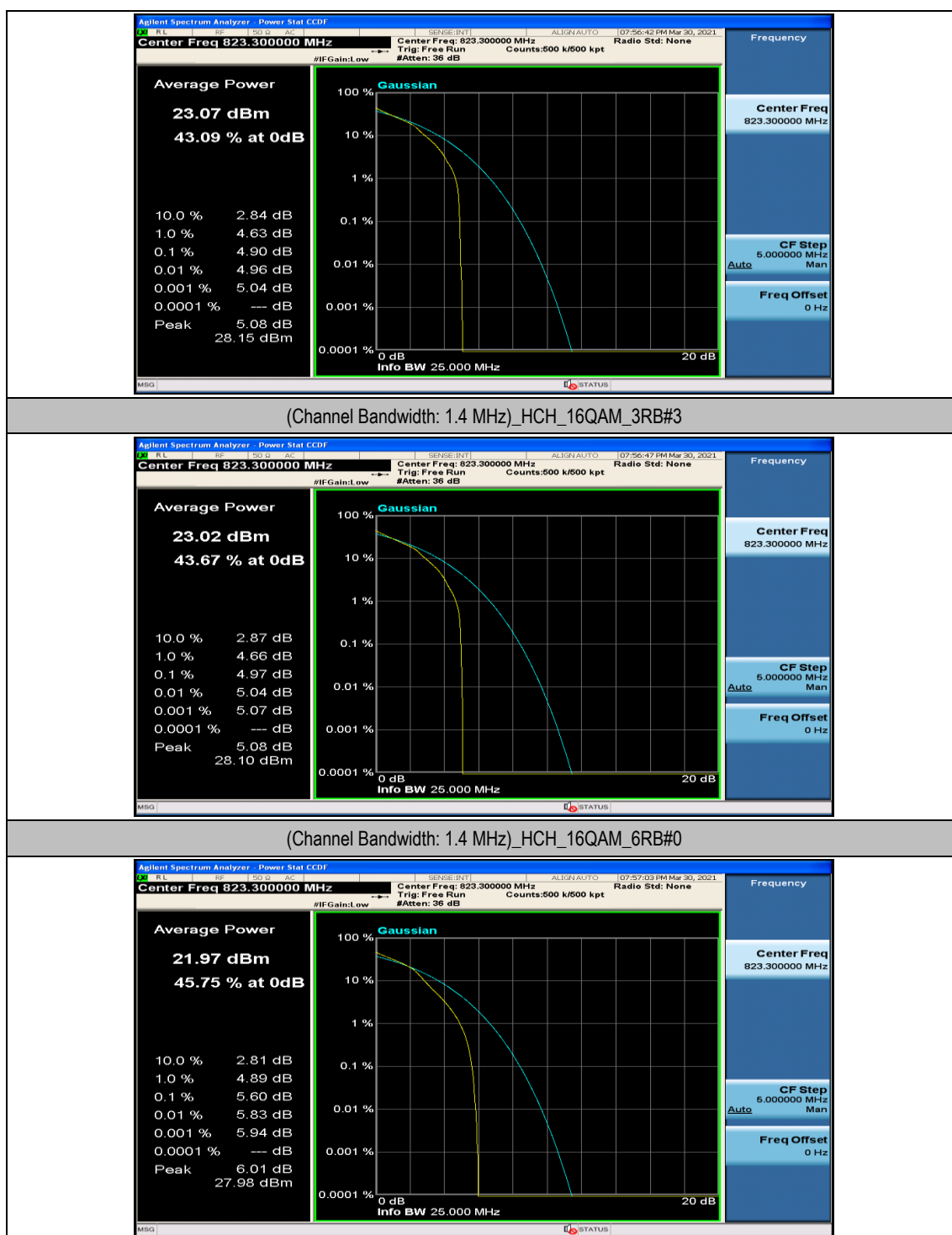
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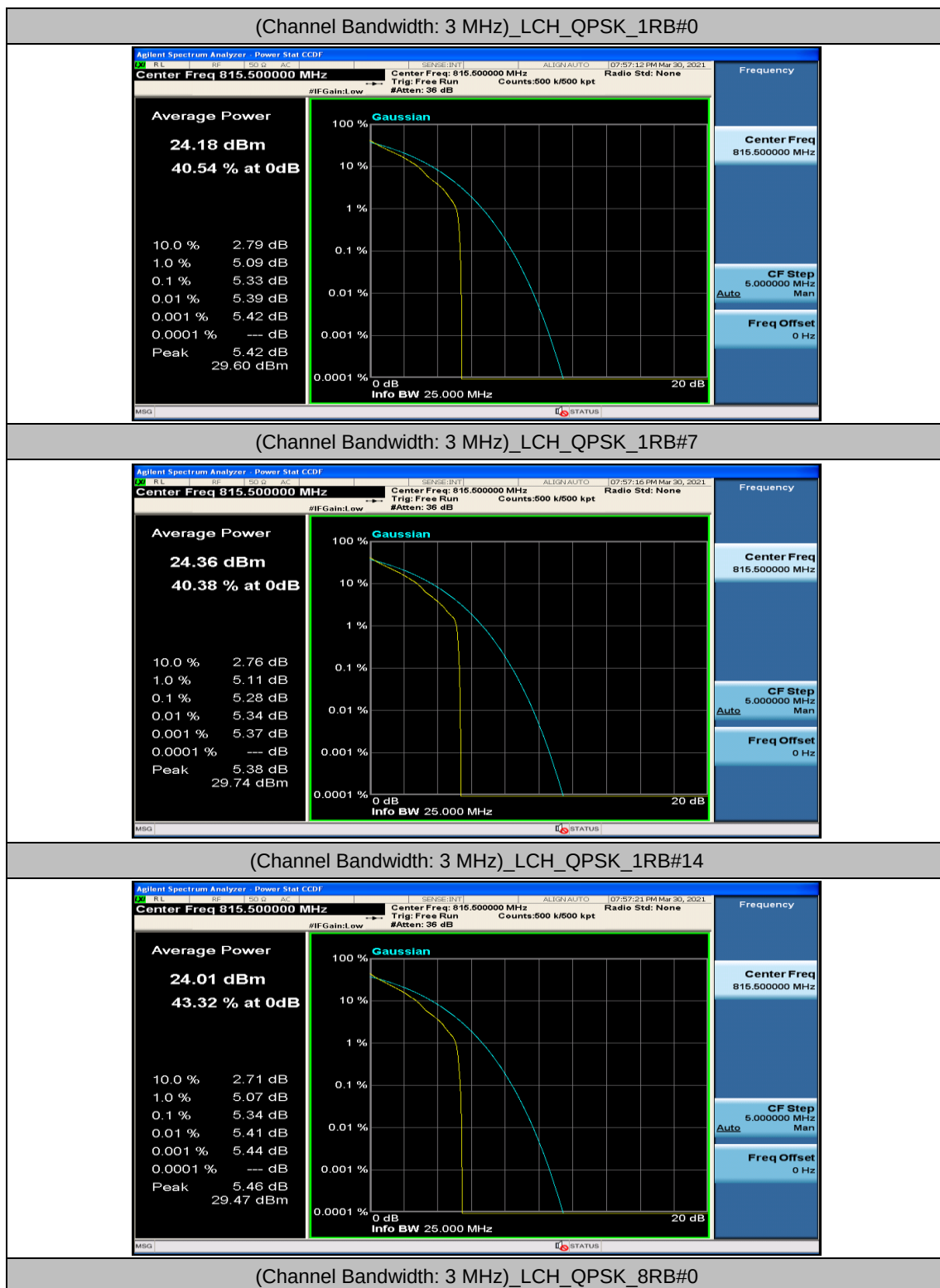
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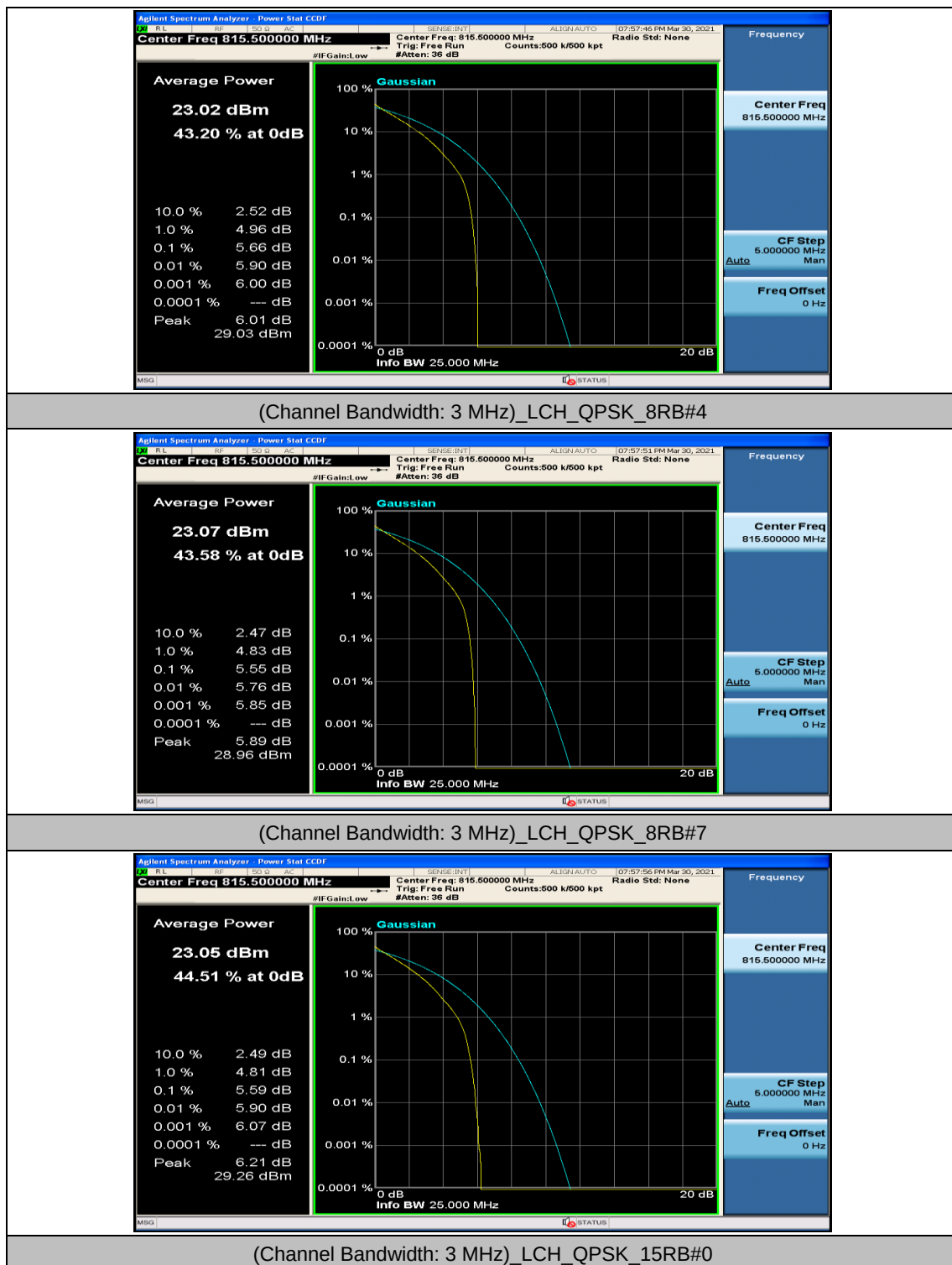


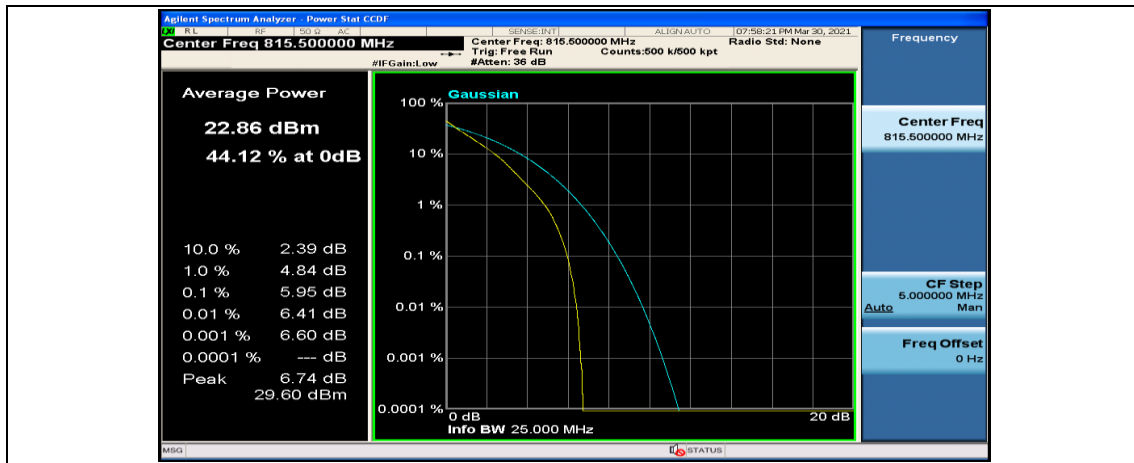
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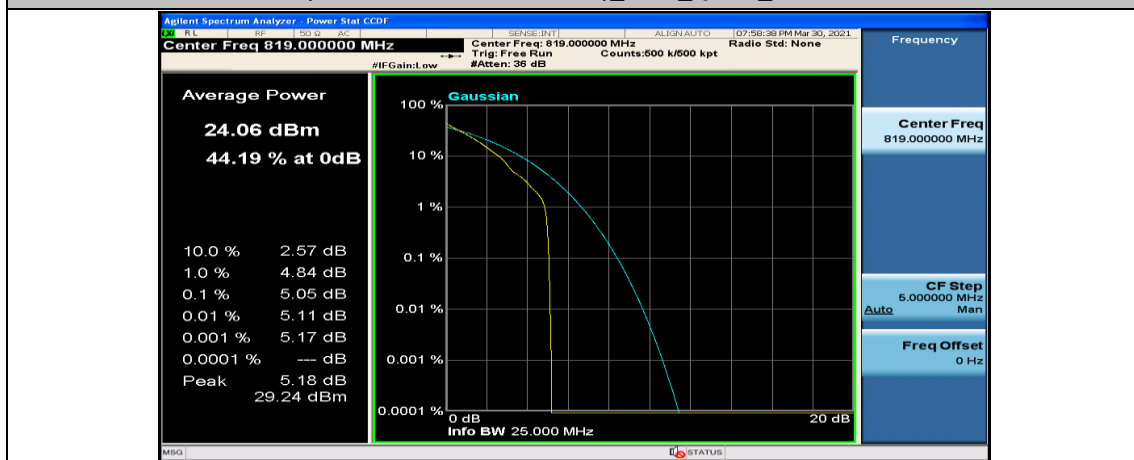
Channel Bandwidth: 3 MHz



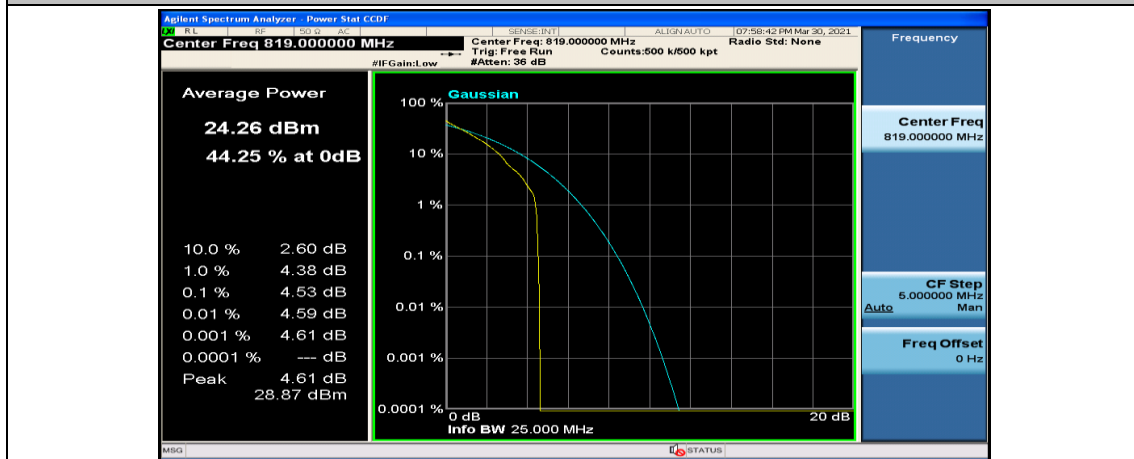




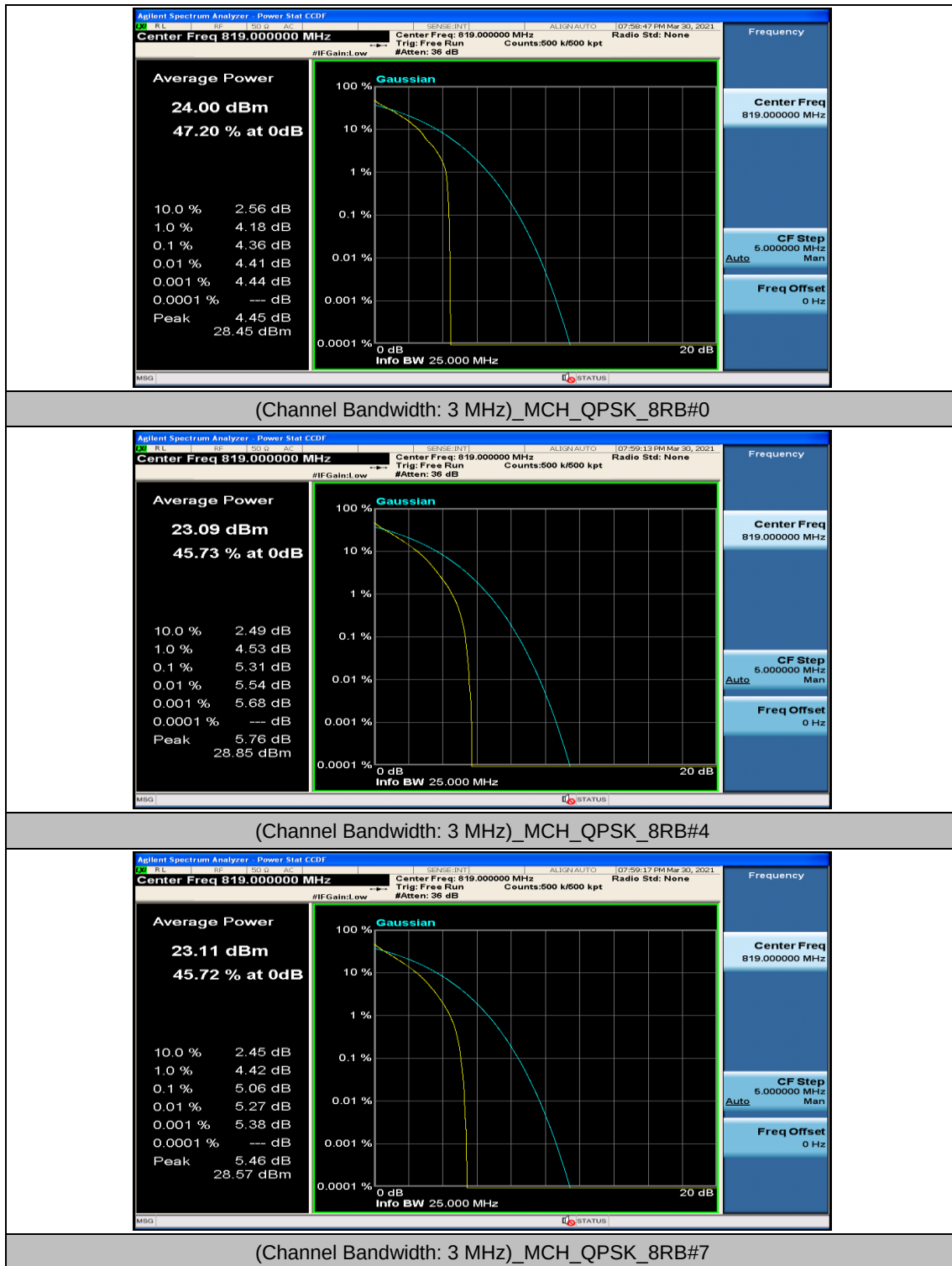
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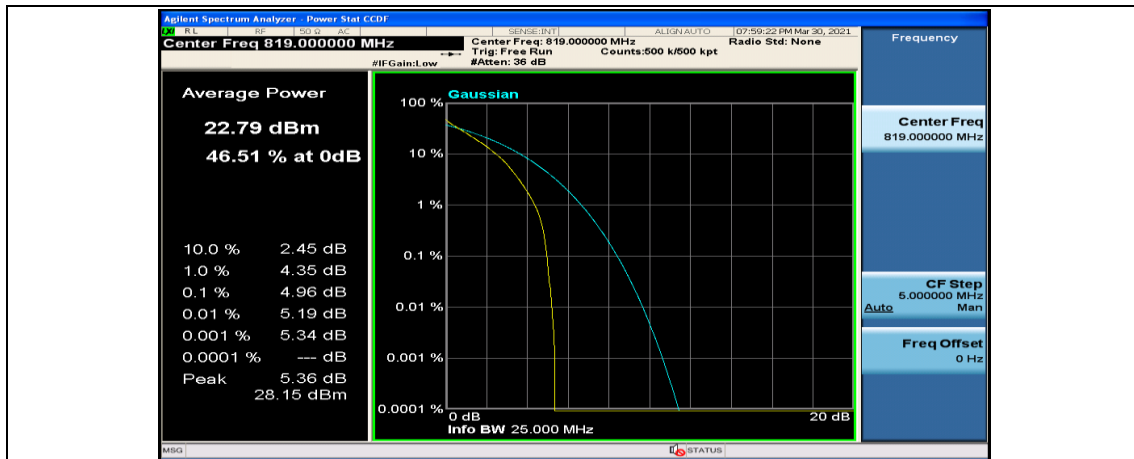


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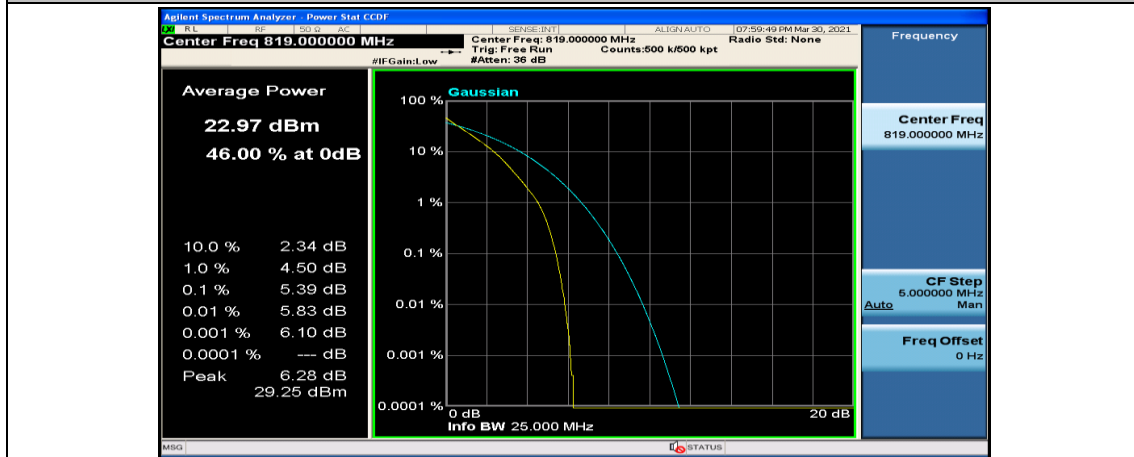


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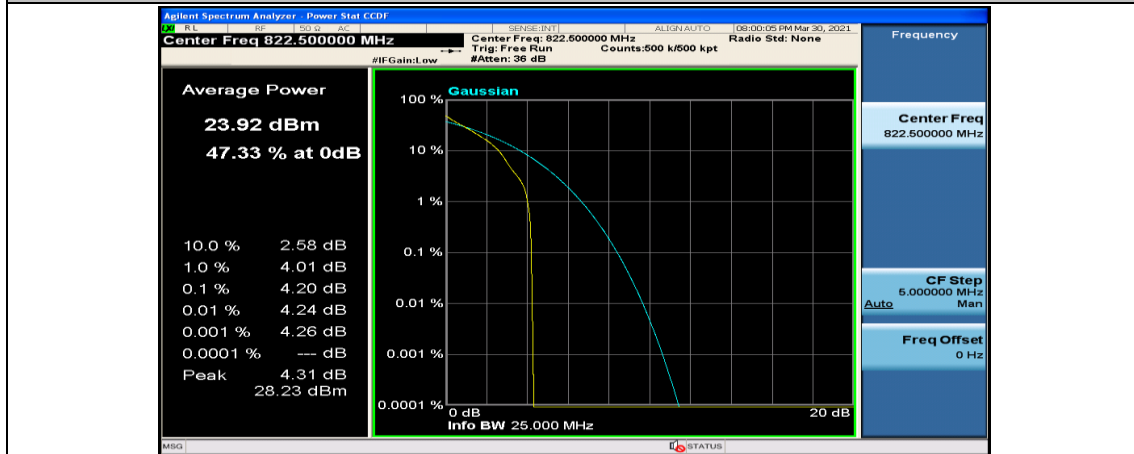




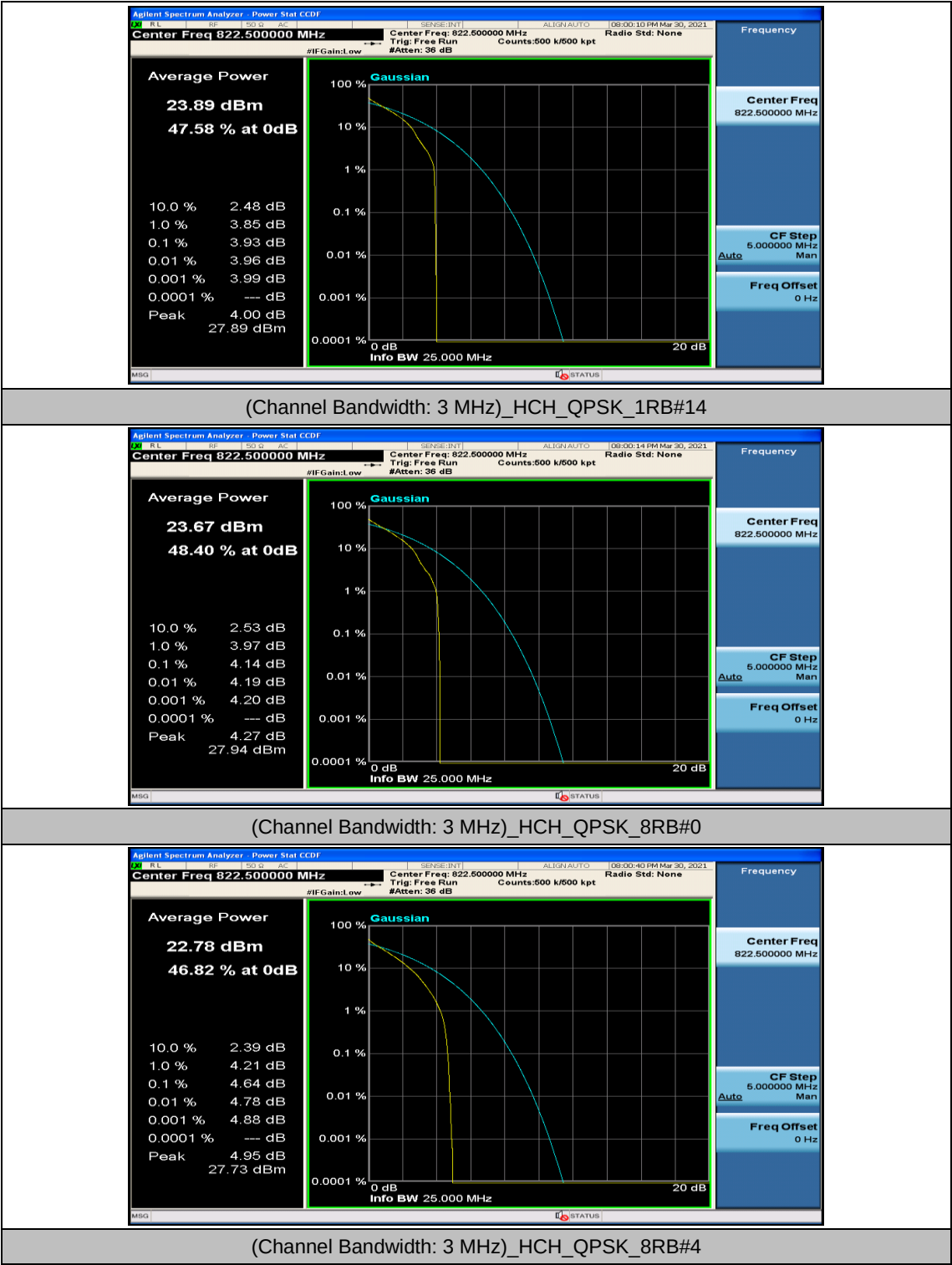
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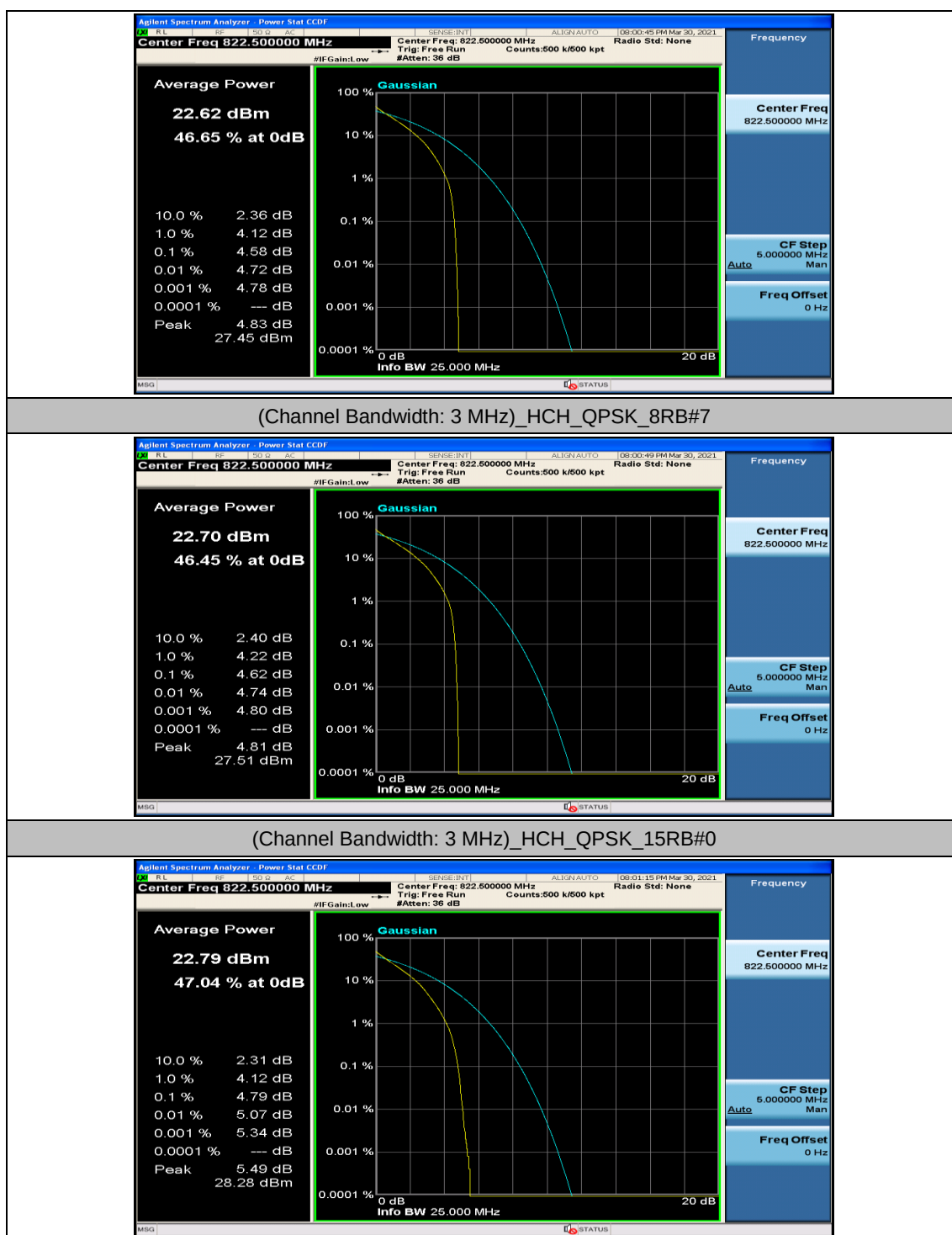


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

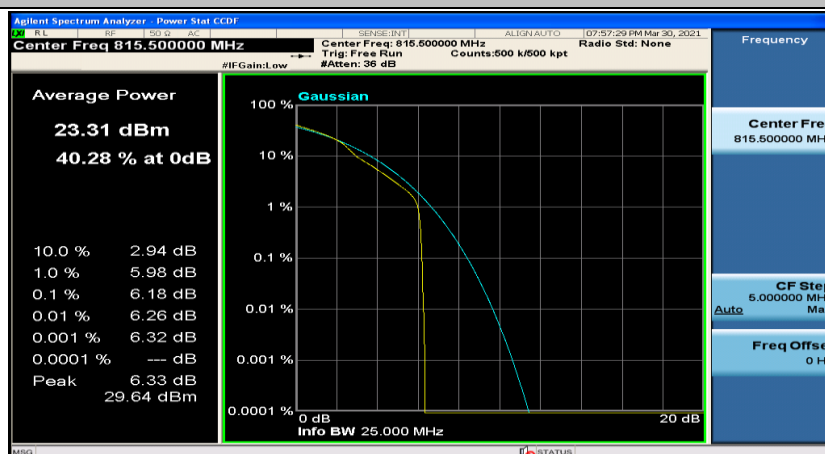


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

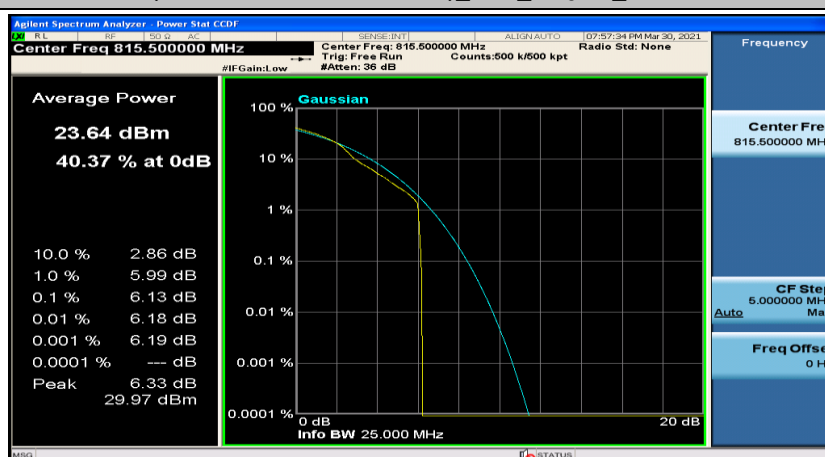




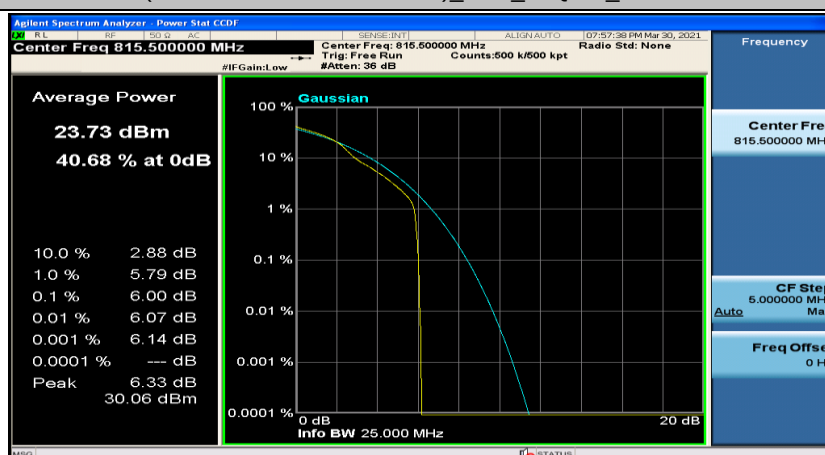
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



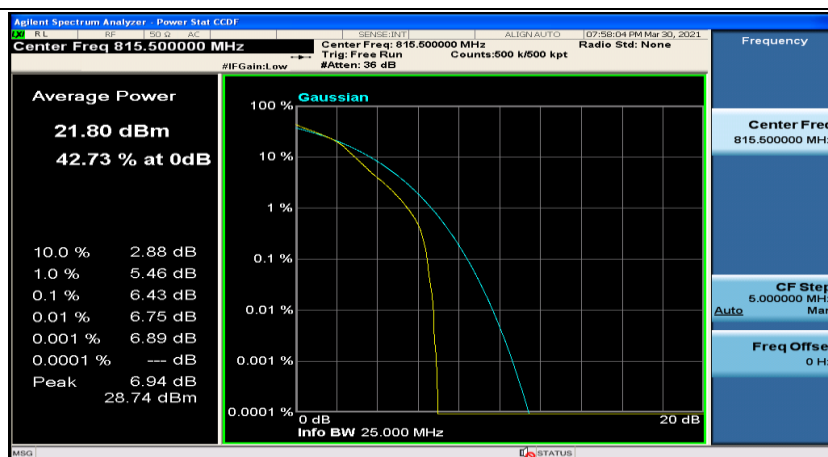
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



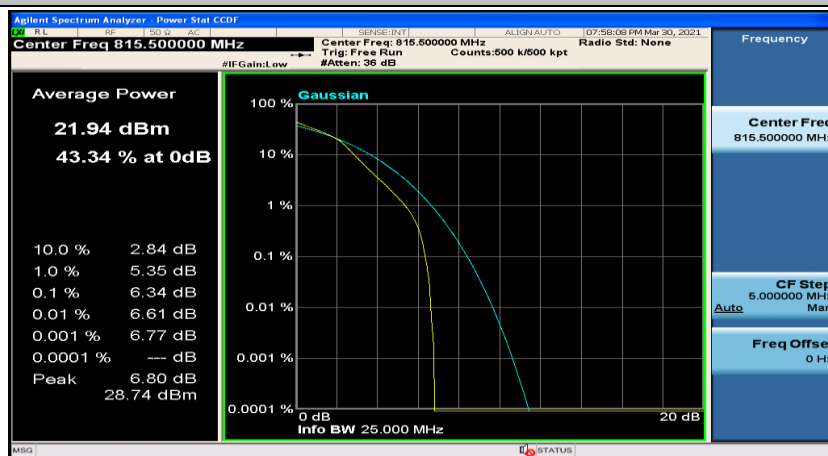
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



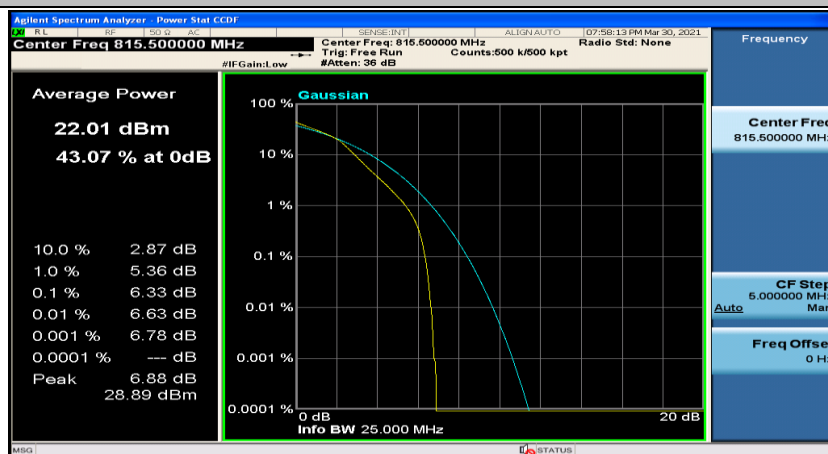
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



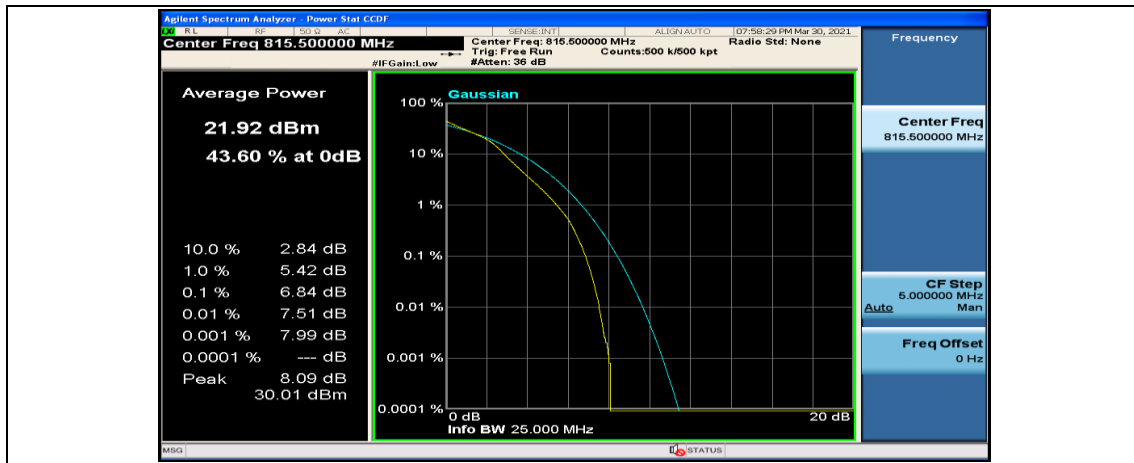
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



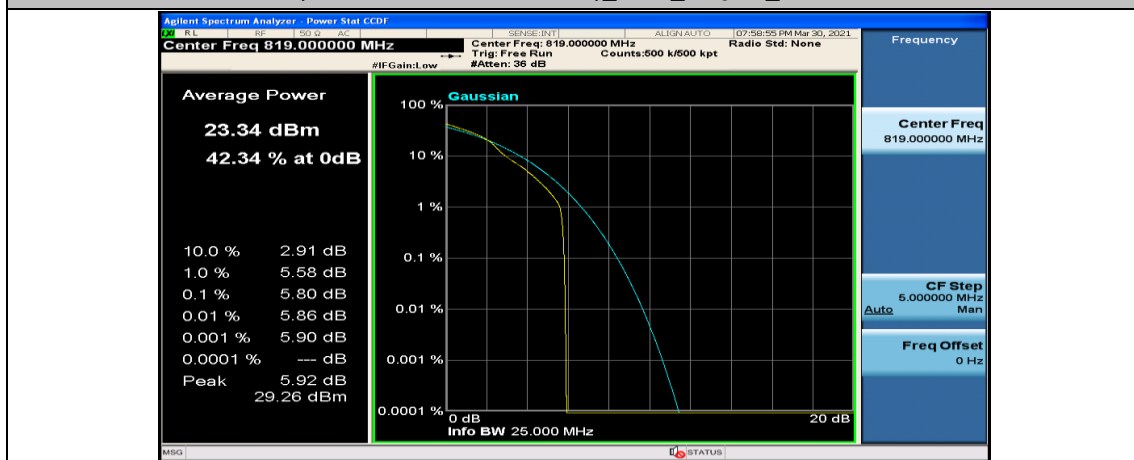
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



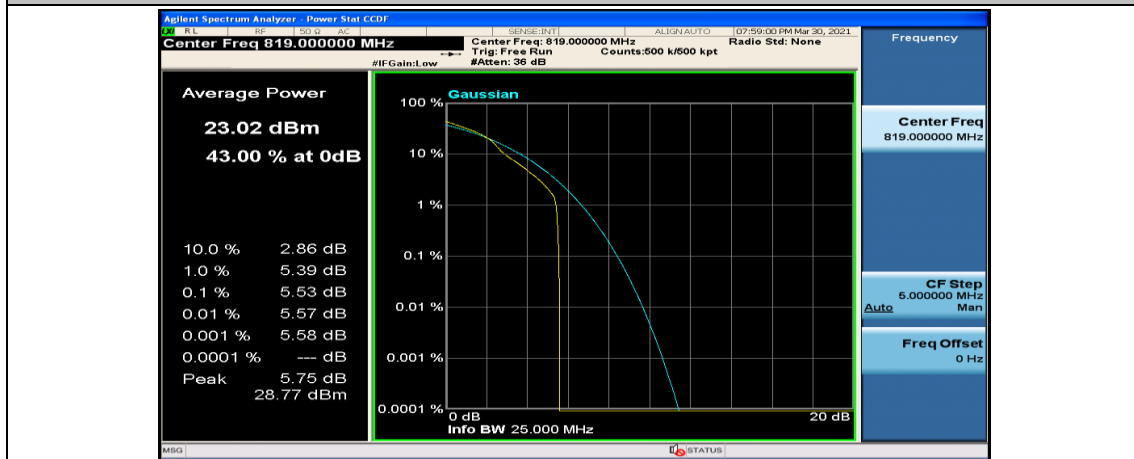
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



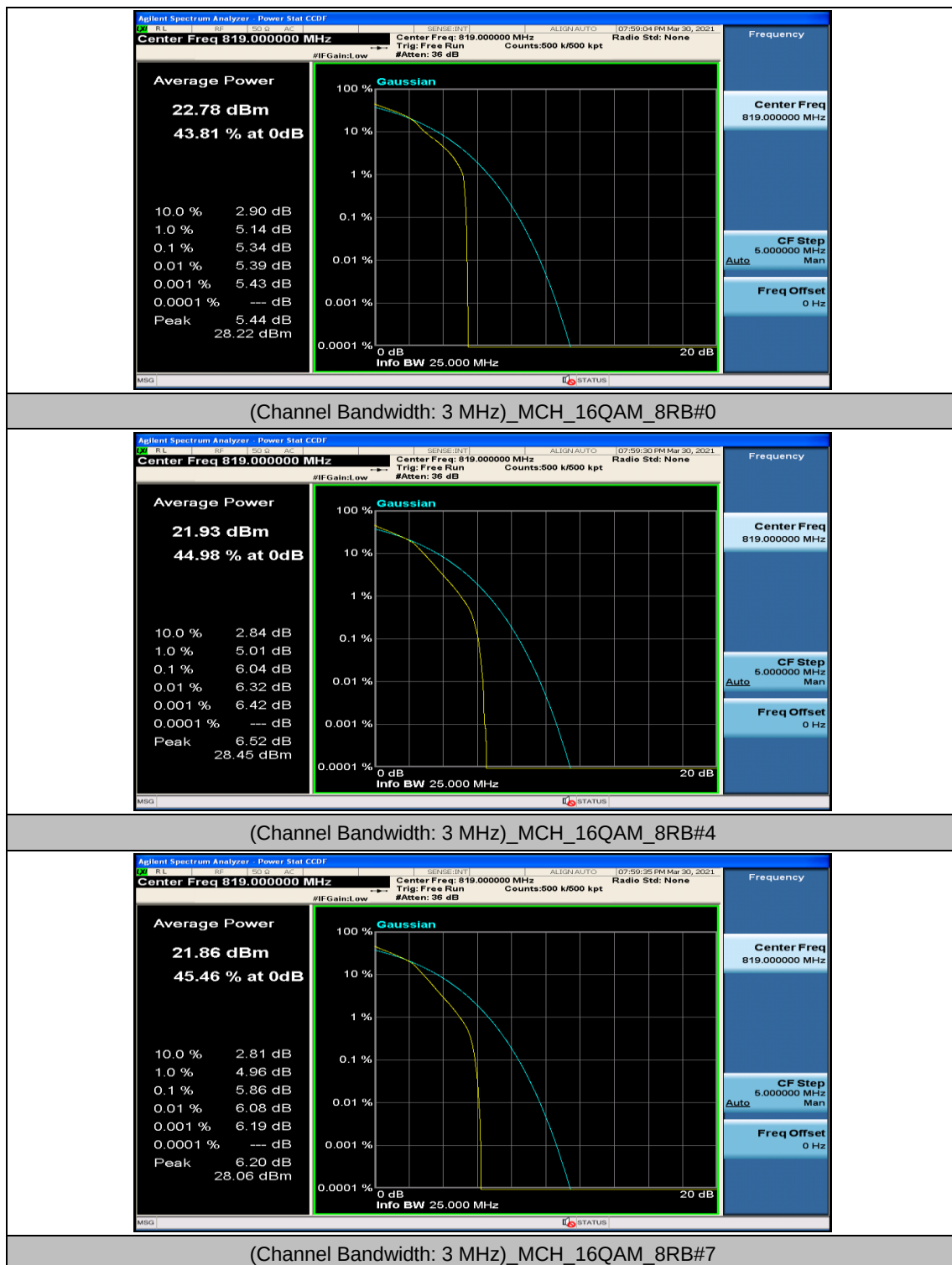
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

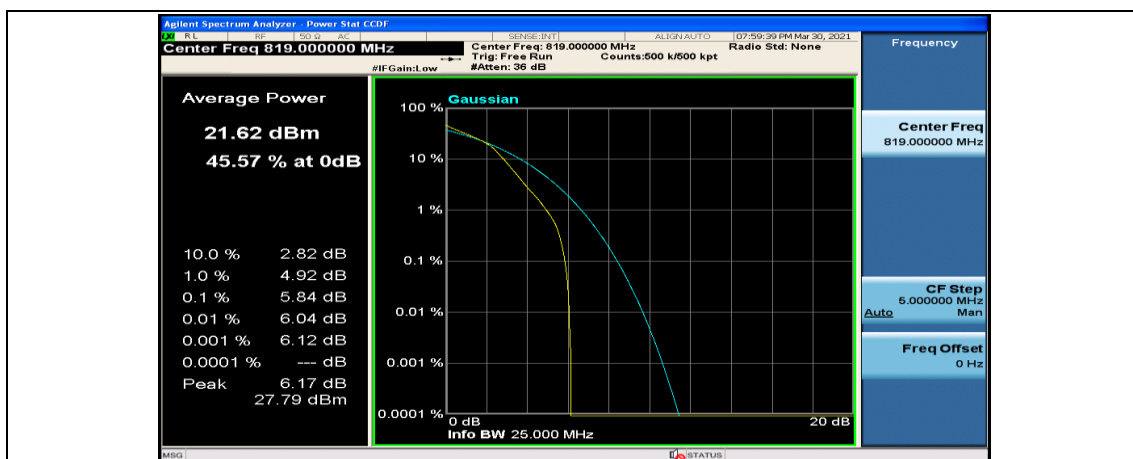


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

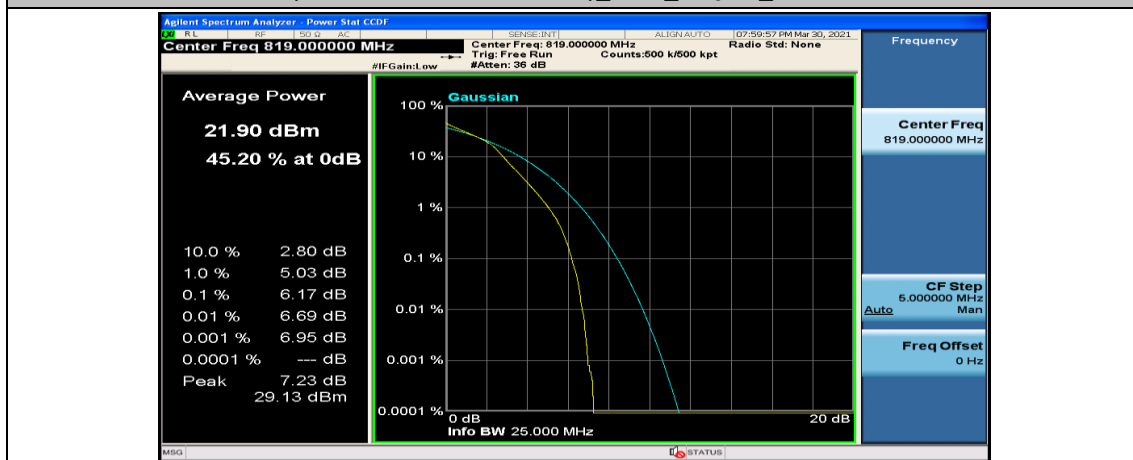


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

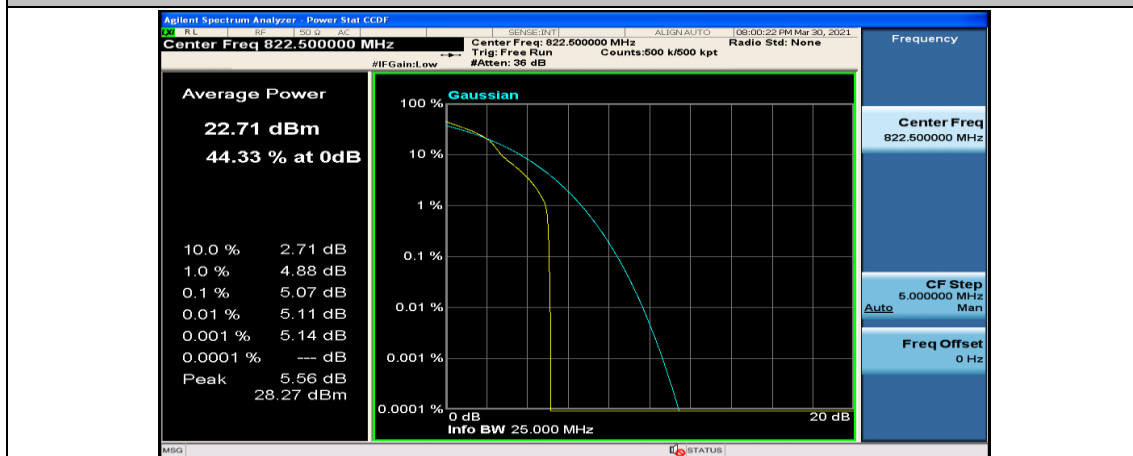




(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

