

Appendix for Band 12

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	23.83	PASS
		1	3	24.03	PASS
		1	5	23.96	PASS
		3	0	23.91	PASS
		3	2	23.96	PASS
		3	3	23.95	PASS
		6	0	23.13	PASS
	MCH	1	0	24.17	PASS
		1	3	24.00	PASS
		1	5	23.79	PASS
		3	0	23.99	PASS
		3	2	24.00	PASS
		3	3	23.90	PASS
		6	0	23.06	PASS
	HCH	1	0	24.01	PASS
		1	3	23.95	PASS
		1	5	24.02	PASS
		3	0	23.96	PASS
		3	2	23.96	PASS
		3	3	23.95	PASS
		6	0	23.03	PASS
16QAM	LCH	1	0	22.93	PASS
		1	3	23.05	PASS
		1	5	23.08	PASS
		3	0	22.78	PASS
		3	2	22.78	PASS
		3	3	22.76	PASS
		6	0	21.98	PASS
	MCH	1	0	22.90	PASS
		1	3	23.00	PASS
		1	5	23.16	PASS
		3	0	23.12	PASS
		3	2	23.10	PASS

		3	3	22.72	PASS
		6	0	22.00	PASS
	HCH	1	0	23.41	PASS
		1	3	23.52	PASS
		1	5	23.44	PASS
		3	0	23.19	PASS
		3	2	23.12	PASS
		3	3	23.10	PASS
		6	0	21.71	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.85	PASS
		1	7	23.96	PASS
		1	14	23.92	PASS
		8	0	22.77	PASS
		8	4	23.01	PASS
		8	7	23.09	PASS
		15	0	23.10	PASS
	MCH	1	0	23.99	PASS
		1	7	24.02	PASS
		1	14	23.95	PASS
		8	0	22.94	PASS
		8	4	22.94	PASS
		8	7	22.85	PASS
		15	0	22.88	PASS
	HCH	1	0	23.97	PASS
		1	7	24.10	PASS
		1	14	24.18	PASS
		8	0	22.95	PASS
		8	4	22.94	PASS
		8	7	22.91	PASS
		15	0	22.88	PASS
16QAM	LCH	1	0	23.12	PASS
		1	7	23.41	PASS
		1	14	23.23	PASS
		8	0	21.79	PASS
		8	4	21.72	PASS
		8	7	21.68	PASS
		15	0	21.98	PASS

	MCH	1	0	23.40	PASS
		1	7	23.36	PASS
		1	14	23.11	PASS
		8	0	22.00	PASS
		8	4	22.00	PASS
		8	7	21.59	PASS
		15	0	21.95	PASS
	HCH	1	0	22.94	PASS
		1	7	23.12	PASS
		1	14	22.97	PASS
		8	0	21.87	PASS
		8	4	21.97	PASS
		8	7	21.94	PASS
		15	0	21.86	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.79	PASS
		1	12	24.36	PASS
		1	24	24.11	PASS
		12	0	23.02	PASS
		12	6	23.04	PASS
		12	13	23.02	PASS
		25	0	22.89	PASS
	MCH	1	0	23.96	PASS
		1	12	24.06	PASS
		1	24	23.70	PASS
		12	0	22.90	PASS
		12	6	22.92	PASS
		12	13	22.84	PASS
		25	0	23.01	PASS
	HCH	1	0	23.85	PASS
		1	12	23.99	PASS
		1	24	23.75	PASS
		12	0	22.83	PASS
		12	6	22.98	PASS
		12	13	22.85	PASS
		25	0	22.79	PASS
16QAM	LCH	1	0	23.01	PASS
		1	12	23.27	PASS

		1	24	22.98	PASS
		12	0	21.82	PASS
		12	6	21.92	PASS
		12	13	21.92	PASS
		25	0	22.03	PASS
	MCH	1	0	23.23	PASS
		1	12	23.23	PASS
		1	24	22.65	PASS
		12	0	22.18	PASS
		12	6	21.97	PASS
		12	13	21.85	PASS
		25	0	22.00	PASS
	HCH	1	0	22.40	PASS
		1	12	22.85	PASS
		1	24	22.66	PASS
		12	0	21.48	PASS
		12	6	21.64	PASS
		12	13	21.61	PASS
		25	0	21.99	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.92	PASS
		1	24	24.22	PASS
		1	49	23.55	PASS
		25	0	23.01	PASS
		25	12	23.14	PASS
		25	25	22.84	PASS
		50	0	23.00	PASS
	MCH	1	0	23.91	PASS
		1	24	24.39	PASS
		1	49	23.58	PASS
		25	0	22.99	PASS
		25	12	22.91	PASS
		25	25	22.84	PASS
		50	0	22.94	PASS
	HCH	1	0	23.82	PASS
		1	24	24.12	PASS
		1	49	24.02	PASS
		25	0	22.95	PASS

		25	12	23.07	PASS
		25	25	22.97	PASS
		50	0	22.84	PASS
16QAM	LCH	1	0	23.31	PASS
		1	24	24.05	PASS
		1	49	23.14	PASS
		25	0	22.05	PASS
		25	12	21.83	PASS
		25	25	21.81	PASS
		50	0	22.03	PASS
	MCH	1	0	23.36	PASS
		1	24	23.61	PASS
		1	49	23.31	PASS
		25	0	21.97	PASS
		25	12	21.75	PASS
		25	25	21.76	PASS
		50	0	21.94	PASS
	HCH	1	0	22.23	PASS
		1	24	22.78	PASS
		1	49	22.37	PASS
		25	0	21.92	PASS
		25	12	22.15	PASS
		25	25	21.85	PASS
		50	0	21.93	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	4.05	<13	PASS
		1	3	3.92	<13	PASS
		1	5	4.01	<13	PASS
		3	0	4.41	<13	PASS
		3	2	4.31	<13	PASS
		3	3	4.42	<13	PASS
		6	0	5.72	<13	PASS
	MCH	1	0	3.91	<13	PASS
		1	3	3.8	<13	PASS
		1	5	3.92	<13	PASS
		3	0	4.27	<13	PASS
		3	2	4.16	<13	PASS
		3	3	4.26	<13	PASS
		6	0	5.6	<13	PASS
	HCH	1	0	4	<13	PASS
		1	3	3.91	<13	PASS
		1	5	4.02	<13	PASS
		3	0	4.41	<13	PASS
		3	2	4.34	<13	PASS
		3	3	4.44	<13	PASS
		6	0	5.78	<13	PASS
16QAM	LCH	1	0	4.77	<13	PASS
		1	3	4.68	<13	PASS
		1	5	4.82	<13	PASS
		3	0	5.08	<13	PASS
		3	2	4.98	<13	PASS
		3	3	5.15	<13	PASS
		6	0	6.72	<13	PASS
	MCH	1	0	4.86	<13	PASS
		1	3	4.83	<13	PASS
		1	5	4.89	<13	PASS
		3	0	5.09	<13	PASS

		3	2	4.94	<13	PASS
		3	3	5.09	<13	PASS
		6	0	6.43	<13	PASS
	HCH	1	0	4.93	<13	PASS
		1	3	4.72	<13	PASS
		1	5	4.95	<13	PASS
		3	0	5.23	<13	PASS
		3	2	5.12	<13	PASS
		3	3	5.28	<13	PASS
		6	0	6.63	<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	4.33	<13	PASS
		1	7	3.95	<13	PASS
		1	14	4.06	<13	PASS
		8	0	5.51	<13	PASS
		8	4	5.43	<13	PASS
		8	7	5.52	<13	PASS
		15	0	5.85	<13	PASS
	MCH	1	0	3.94	<13	PASS
		1	7	3.8	<13	PASS
		1	14	3.93	<13	PASS
		8	0	5.33	<13	PASS
		8	4	5.24	<13	PASS
		8	7	5.3	<13	PASS
		15	0	5.6	<13	PASS
	HCH	1	0	4.03	<13	PASS
		1	7	3.89	<13	PASS
		1	14	4.08	<13	PASS
		8	0	5.49	<13	PASS
		8	4	5.42	<13	PASS
		8	7	5.52	<13	PASS
		15	0	5.79	<13	PASS
16QAM	LCH	1	0	5.12	<13	PASS
		1	7	4.86	<13	PASS
		1	14	4.86	<13	PASS
		8	0	6.38	<13	PASS
		8	4	6.26	<13	PASS

		8	7	6.31	<13	PASS
		15	0	6.77	<13	PASS
	MCH	1	0	4.81	<13	PASS
		1	7	4.52	<13	PASS
		1	14	4.78	<13	PASS
		8	0	6.21	<13	PASS
		8	4	6.08	<13	PASS
		8	7	6.17	<13	PASS
		15	0	6.45	<13	PASS
	HCH	1	0	4.83	<13	PASS
		1	7	4.71	<13	PASS
		1	14	4.88	<13	PASS
		8	0	6.42	<13	PASS
		8	4	6.31	<13	PASS
		8	7	6.46	<13	PASS
		15	0	6.63	<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	4.25	<13	PASS
		1	12	4.03	<13	PASS
		1	24	3.96	<13	PASS
		12	0	5.51	<13	PASS
		12	6	5.34	<13	PASS
		12	13	5.42	<13	PASS
		25	0	5.75	<13	PASS
	MCH	1	0	3.89	<13	PASS
		1	12	3.78	<13	PASS
		1	24	3.96	<13	PASS
		12	0	5.27	<13	PASS
		12	6	5.13	<13	PASS
		12	13	5.22	<13	PASS
		25	0	5.56	<13	PASS
	HCH	1	0	3.97	<13	PASS
		1	12	3.93	<13	PASS
		1	24	4	<13	PASS
		12	0	5.39	<13	PASS
		12	6	5.31	<13	PASS
		12	13	5.42	<13	PASS

		25	0	5.76	<13	PASS
16QAM	LCH	1	0	4.74	<13	PASS
		1	12	4.68	<13	PASS
		1	24	4.69	<13	PASS
		12	0	6.34	<13	PASS
		12	6	6.16	<13	PASS
		12	13	6.28	<13	PASS
		25	0	6.52	<13	PASS
	MCH	1	0	4.6	<13	PASS
		1	12	4.68	<13	PASS
		1	24	4.58	<13	PASS
		12	0	6.11	<13	PASS
		12	6	6.03	<13	PASS
		12	13	6.09	<13	PASS
		25	0	6.39	<13	PASS
	HCH	1	0	4.56	<13	PASS
		1	12	4.6	<13	PASS
		1	24	4.57	<13	PASS
		12	0	6.26	<13	PASS
		12	6	6.14	<13	PASS
		12	13	6.34	<13	PASS
		25	0	6.55	<13	PASS

Channel Bandwidth: 10 MHz

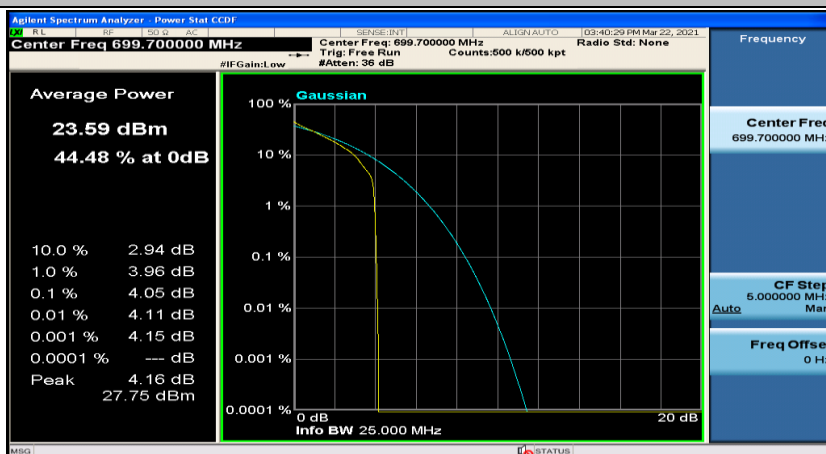
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	6.36	<13	PASS
		1	24	3.81	<13	PASS
		1	49	3.84	<13	PASS
		25	0	5.39	<13	PASS
		25	12	5.25	<13	PASS
		25	25	5.28	<13	PASS
		50	0	5.61	<13	PASS
	MCH	1	0	3.94	<13	PASS
		1	24	3.82	<13	PASS
		1	49	3.93	<13	PASS
		25	0	5.28	<13	PASS
		25	12	5.18	<13	PASS
		25	25	5.34	<13	PASS
		50	0	5.61	<13	PASS

	HCH	1	0	3.81	<13	PASS
		1	24	3.84	<13	PASS
		1	49	3.97	<13	PASS
		25	0	5.29	<13	PASS
		25	12	5.3	<13	PASS
		25	25	5.42	<13	PASS
		50	0	5.68	<13	PASS
16QAM	LCH	1	0	4.85	<13	PASS
		1	24	4.7	<13	PASS
		1	49	4.64	<13	PASS
		25	0	6.31	<13	PASS
		25	12	6.14	<13	PASS
		25	25	6.16	<13	PASS
		50	0	6.34	<13	PASS
	MCH	1	0	4.79	<13	PASS
		1	24	4.67	<13	PASS
		1	49	4.75	<13	PASS
		25	0	6.2	<13	PASS
		25	12	6.07	<13	PASS
		25	25	6.21	<13	PASS
		50	0	6.36	<13	PASS
	HCH	1	0	4.6	<13	PASS
		1	24	4.58	<13	PASS
		1	49	4.81	<13	PASS
		25	0	6.23	<13	PASS
		25	12	6.21	<13	PASS
		25	25	6.35	<13	PASS
		50	0	6.58	<13	PASS

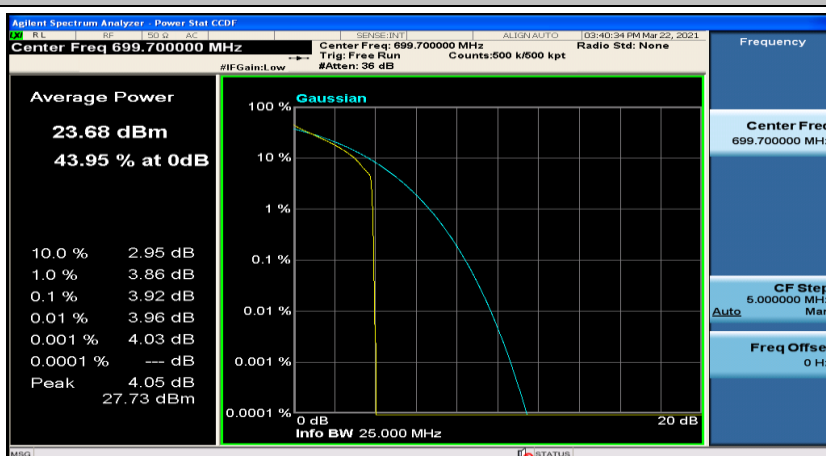
Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



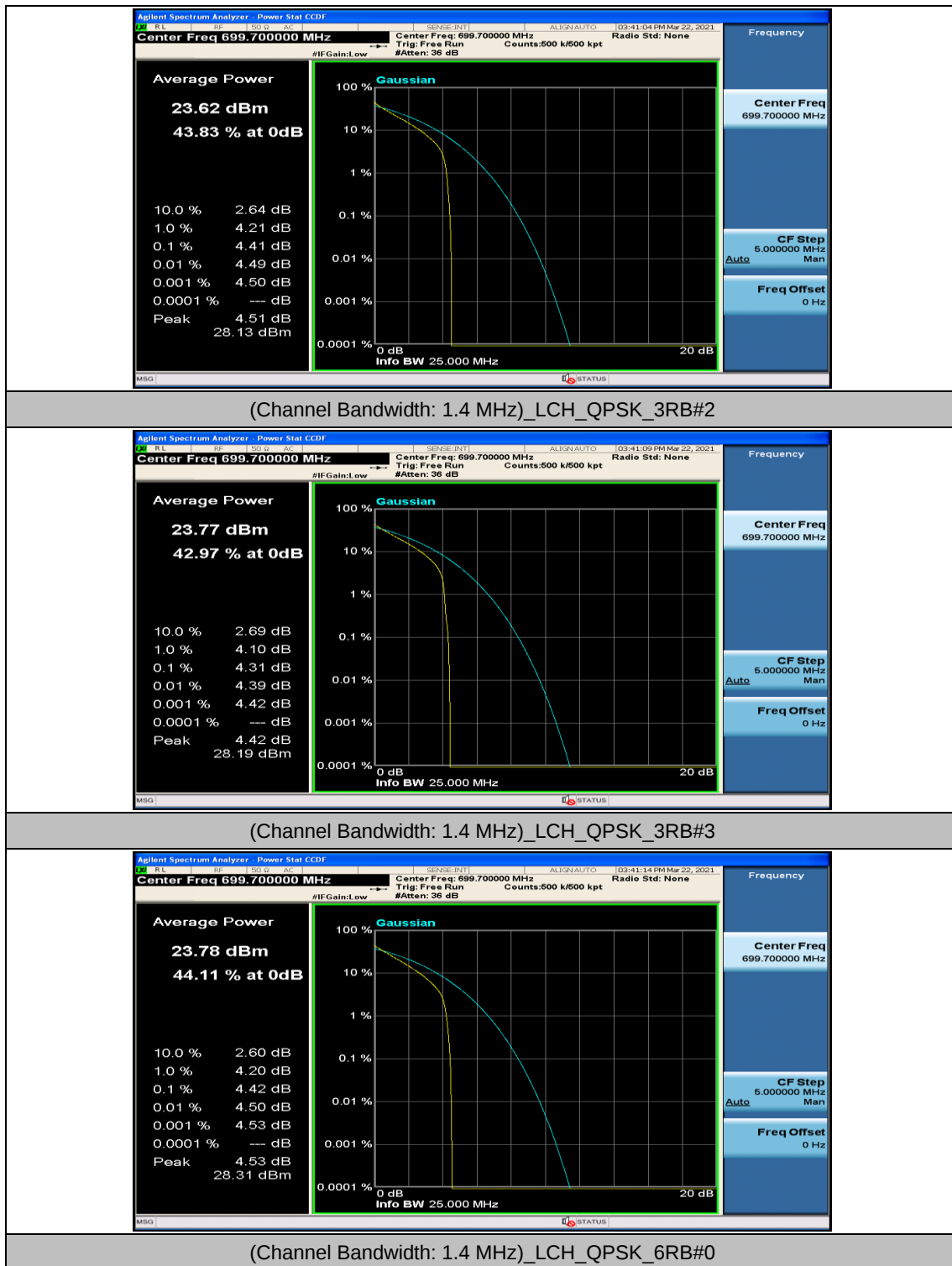
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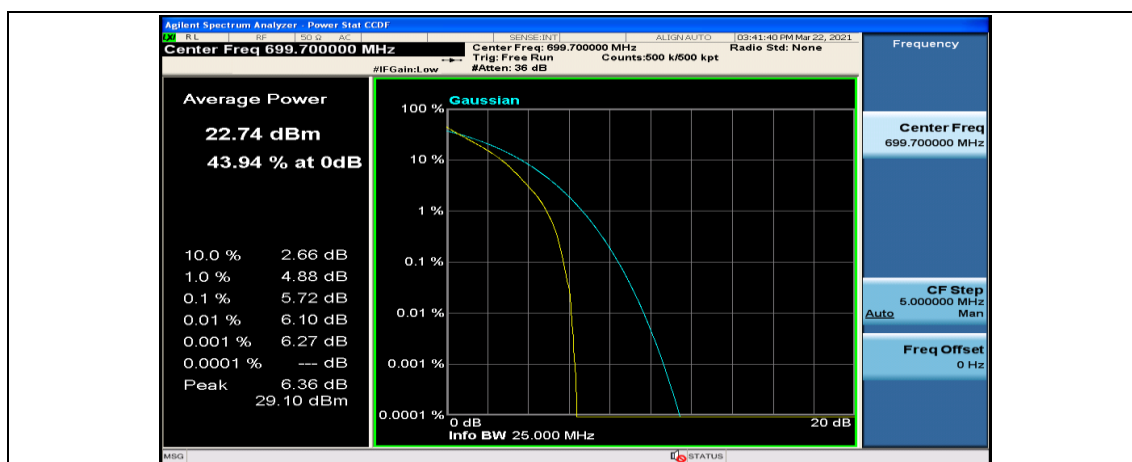


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5

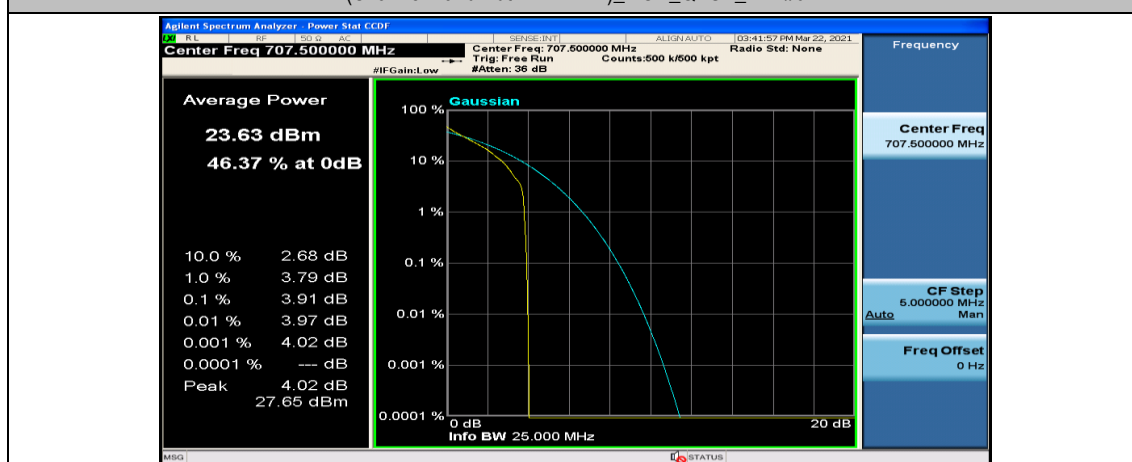


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0

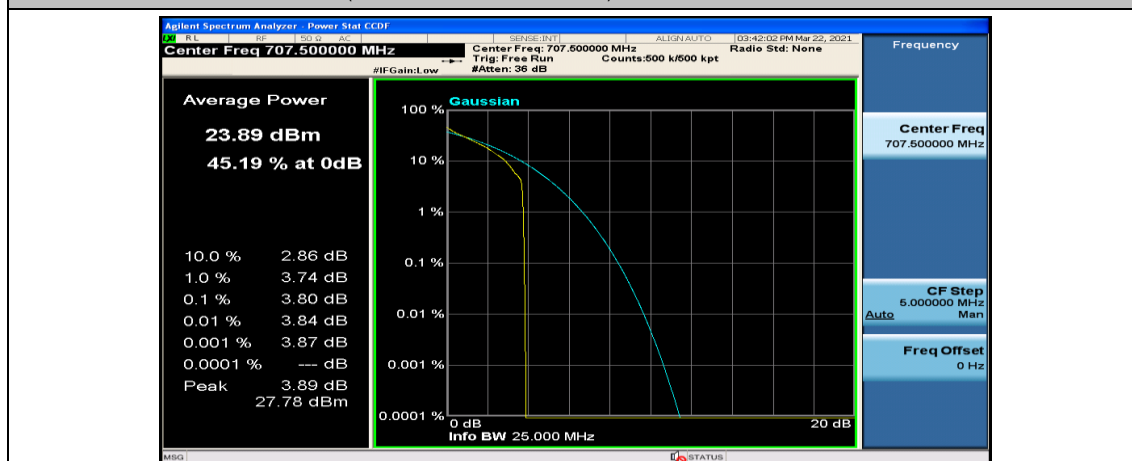




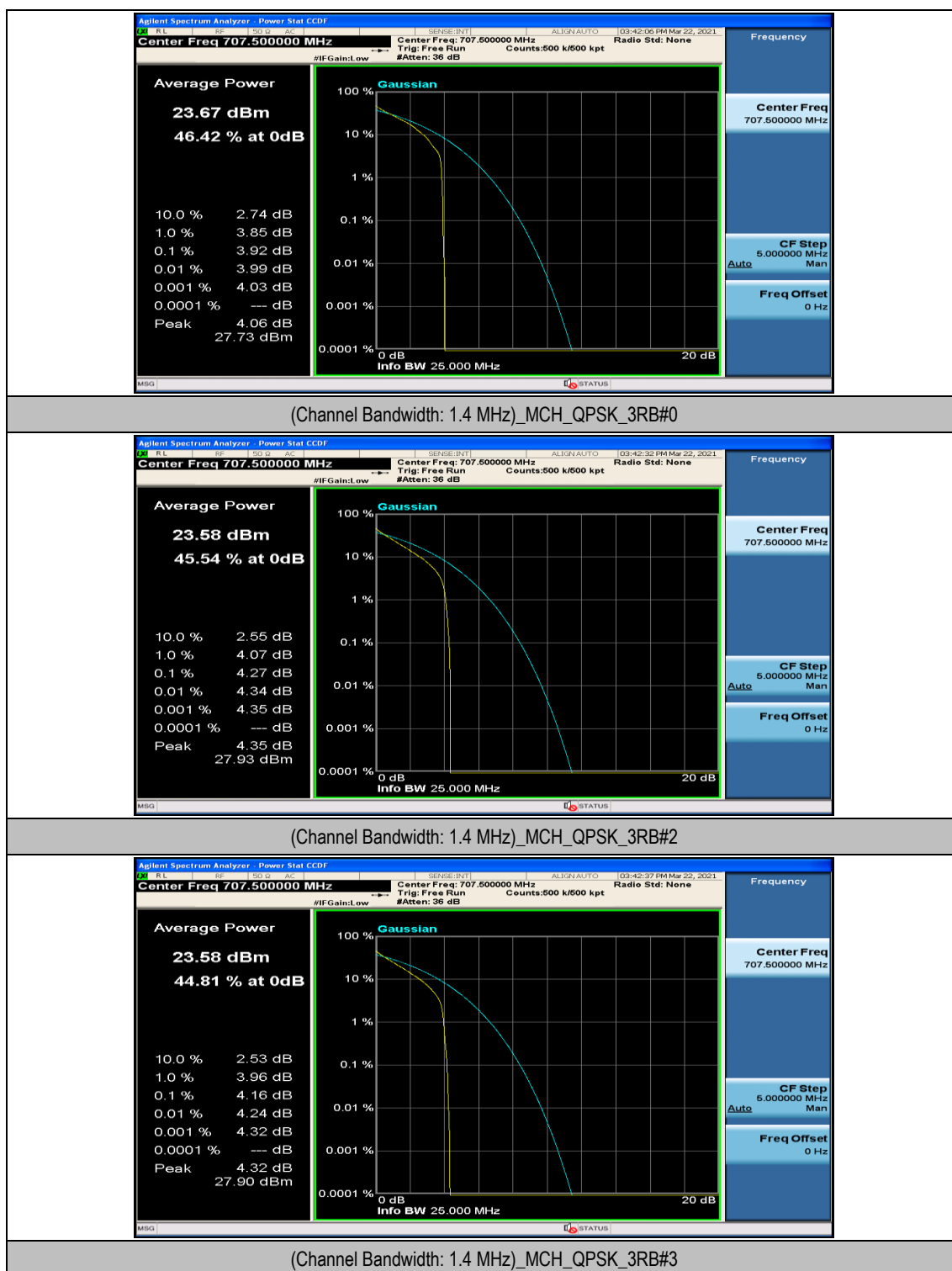
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

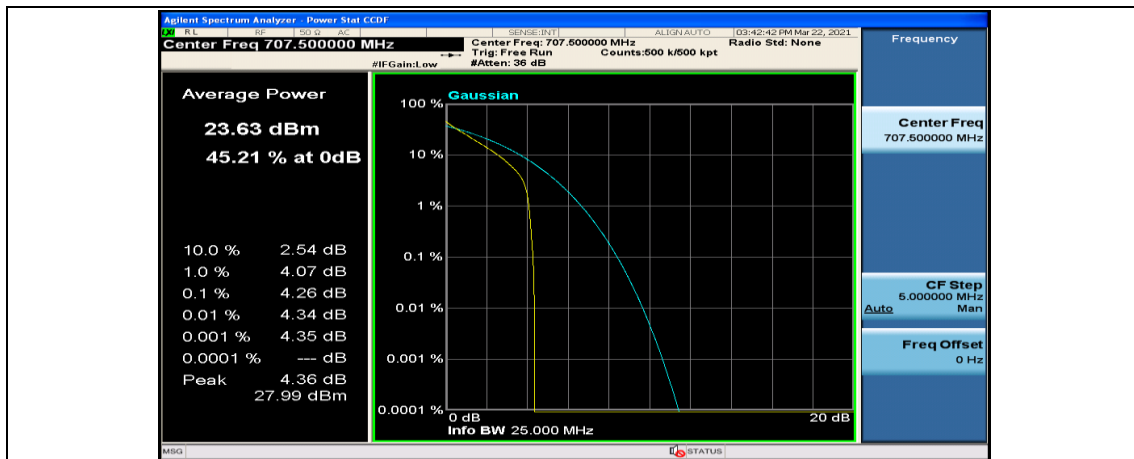


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3

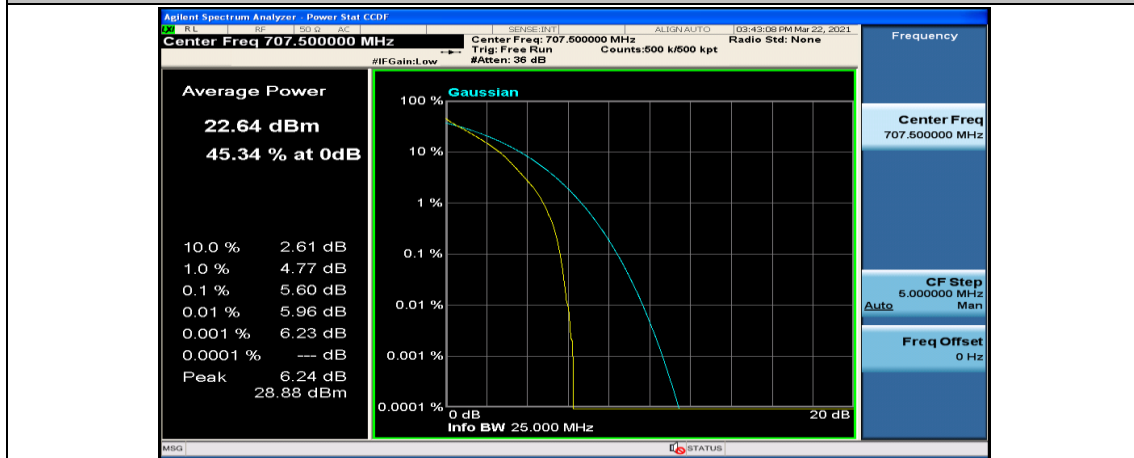


(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5

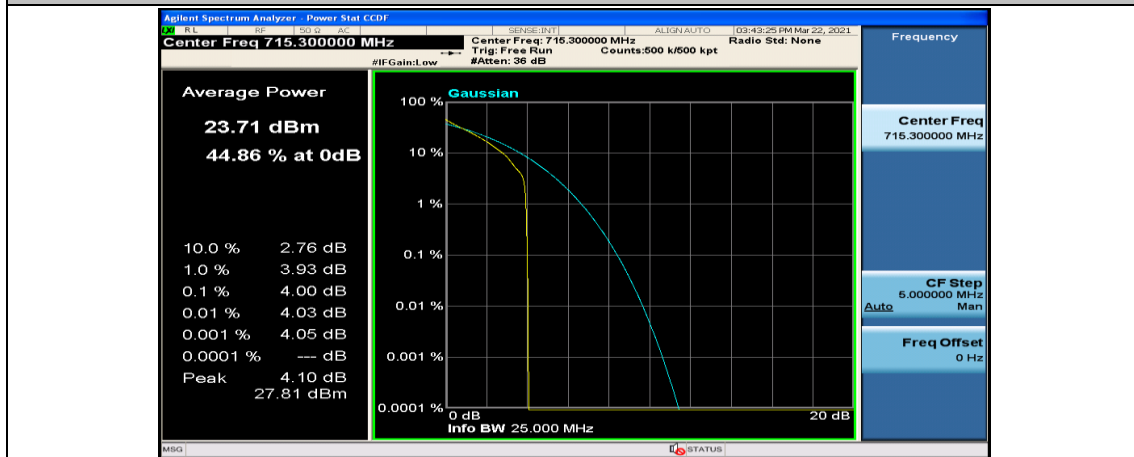




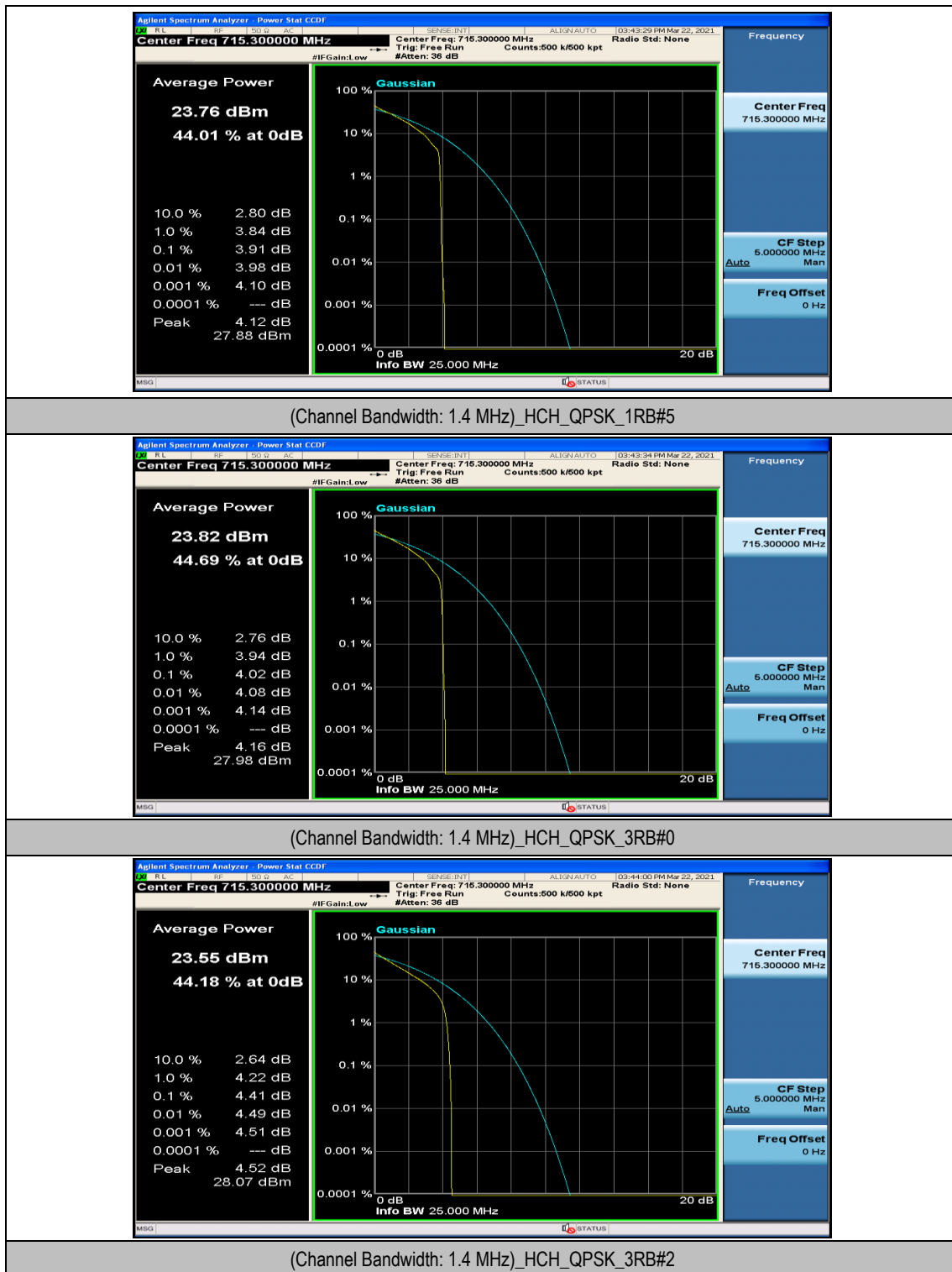
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0

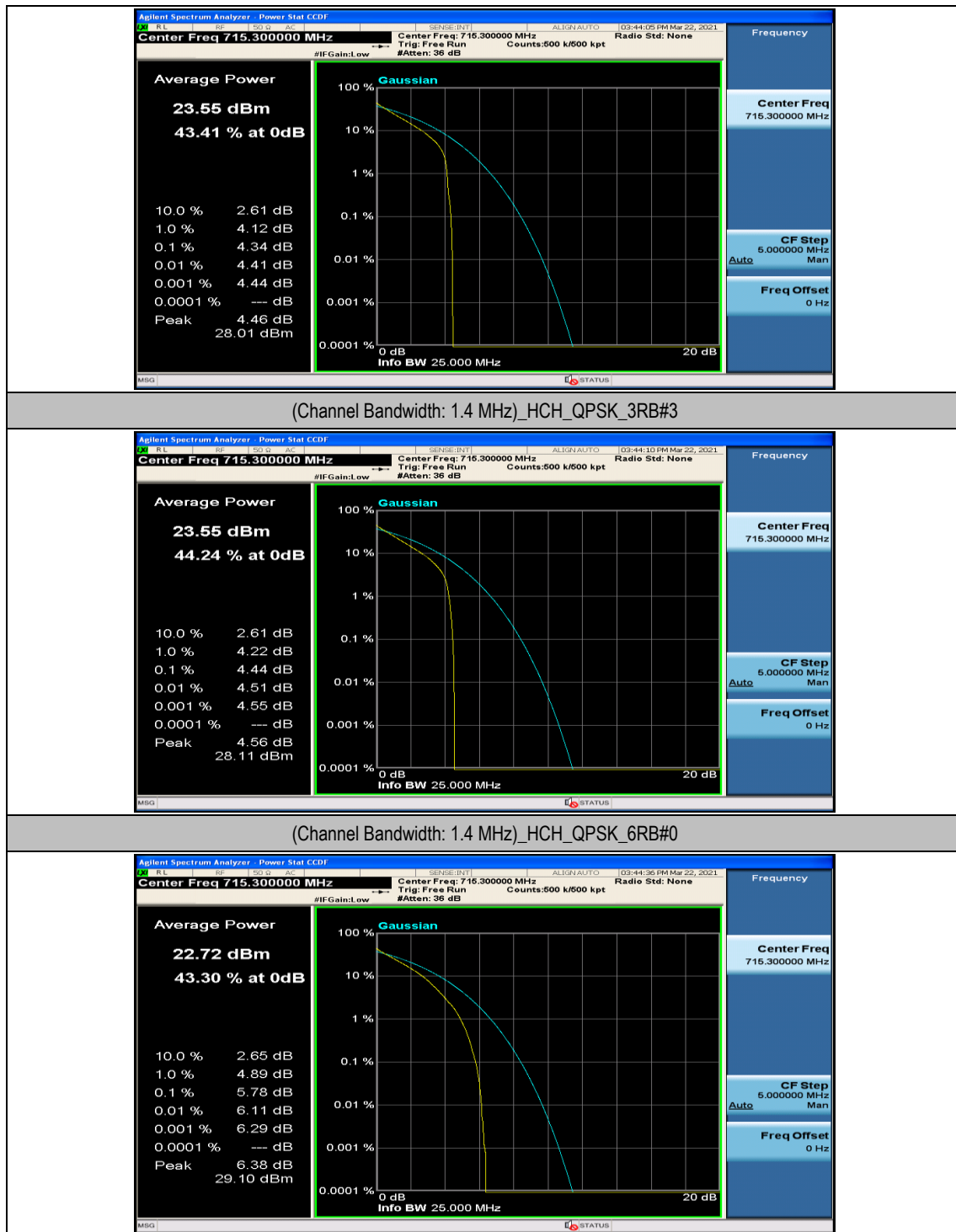


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

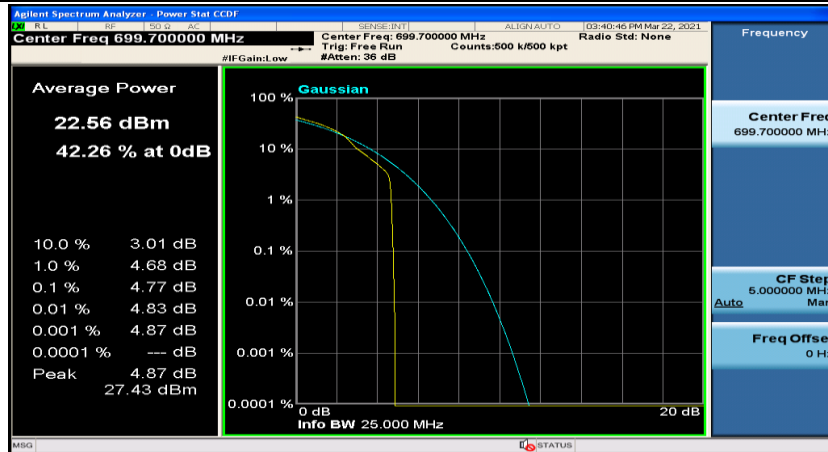


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3

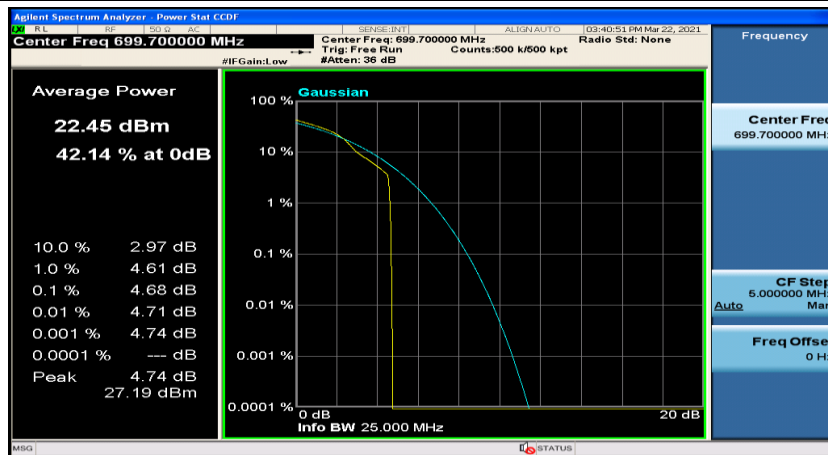




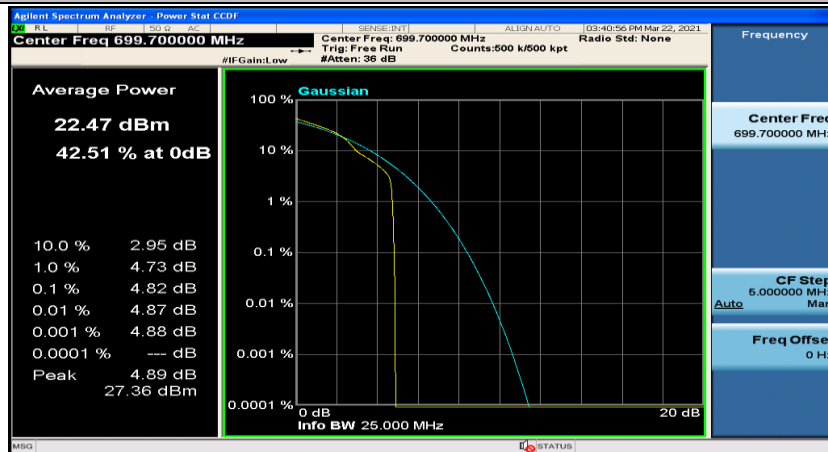
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



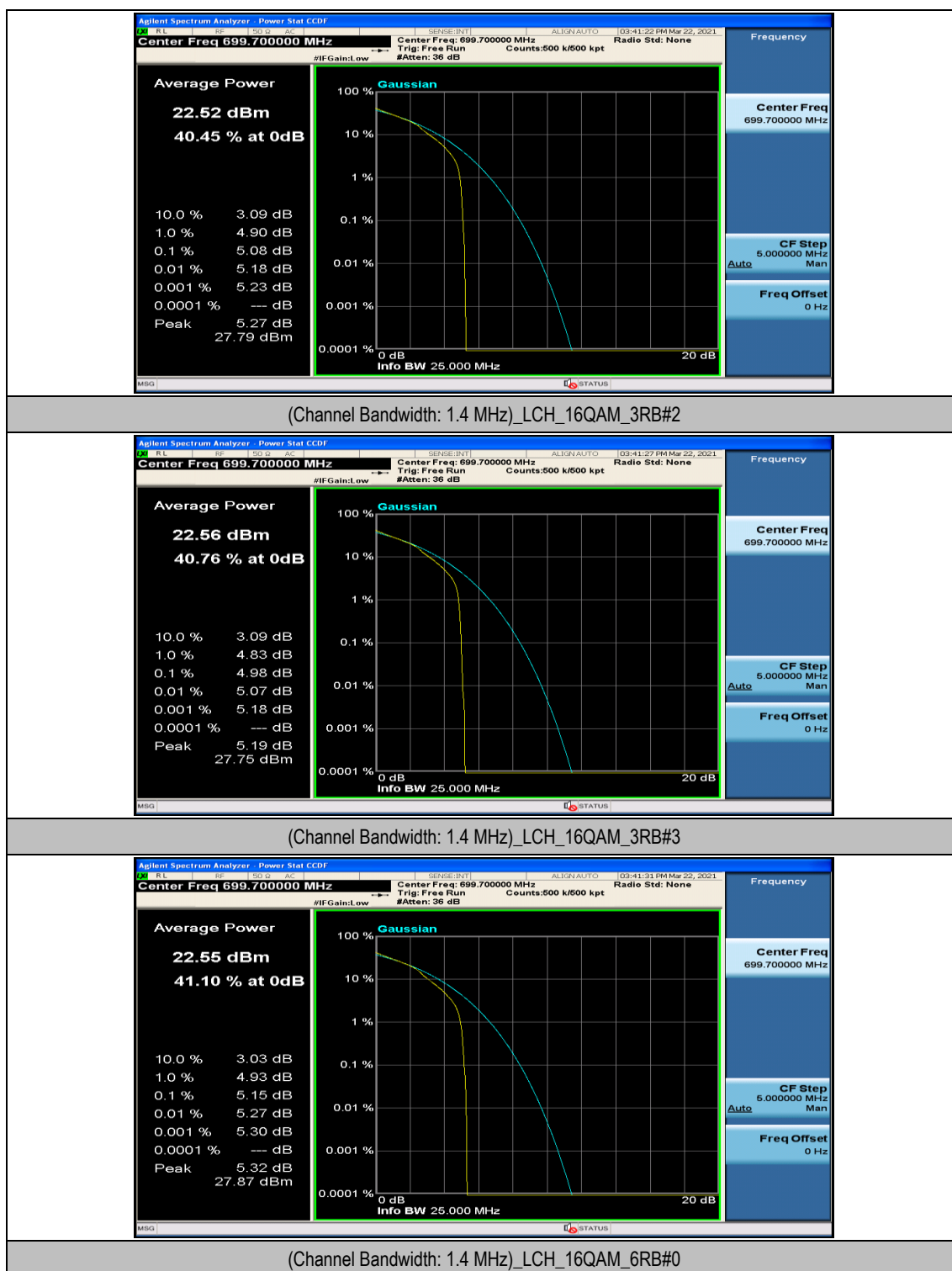
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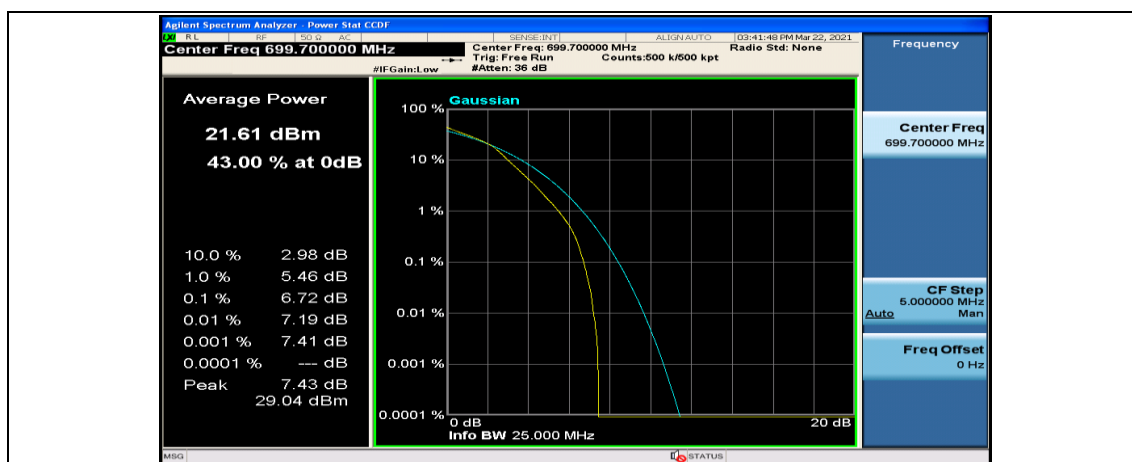


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

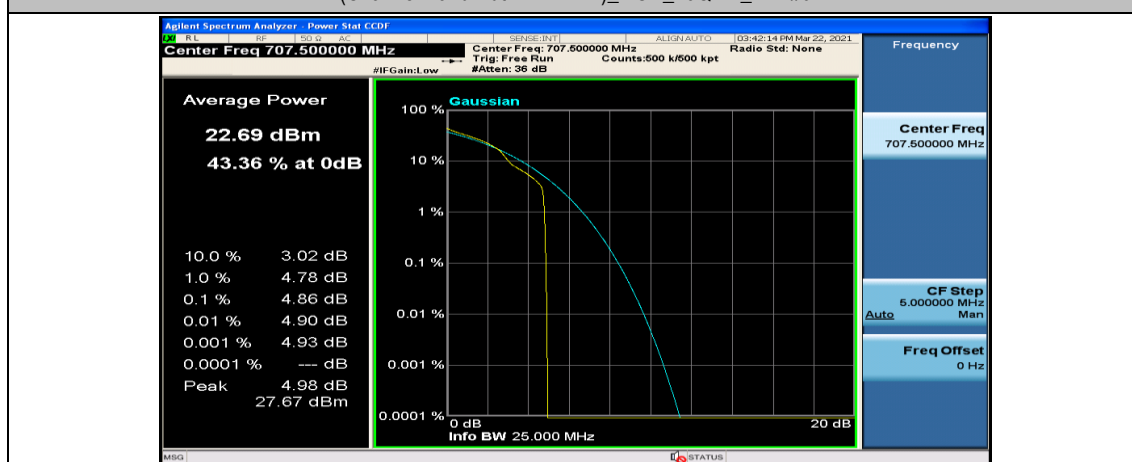


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

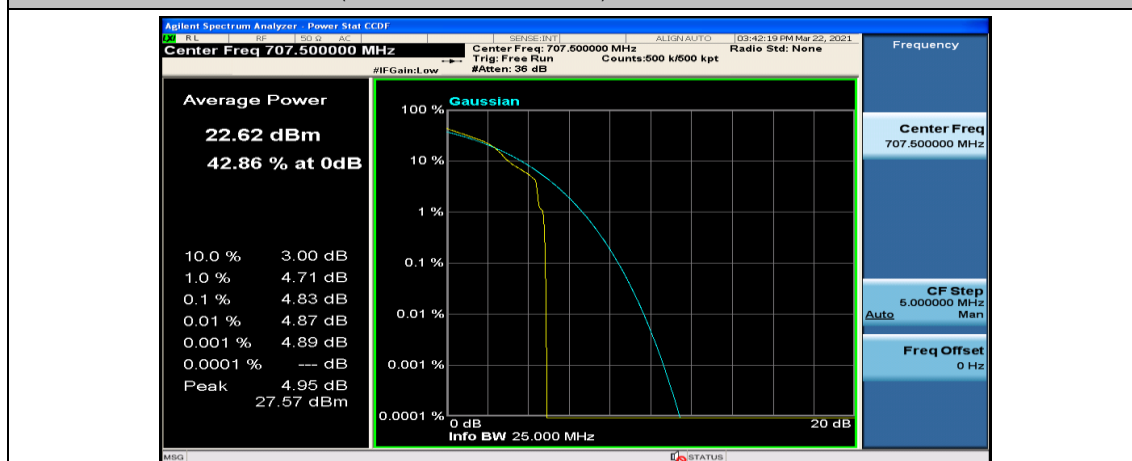




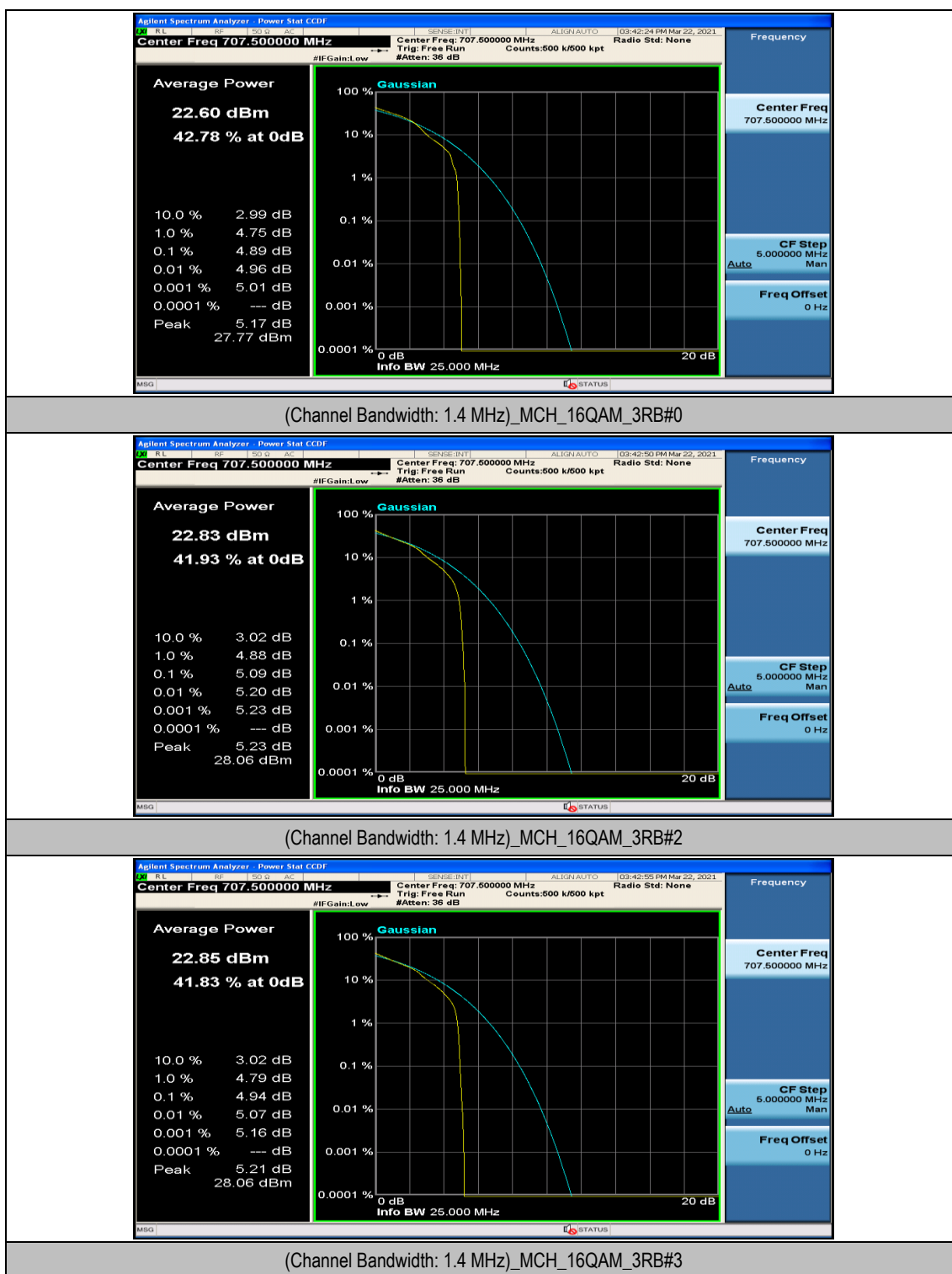
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

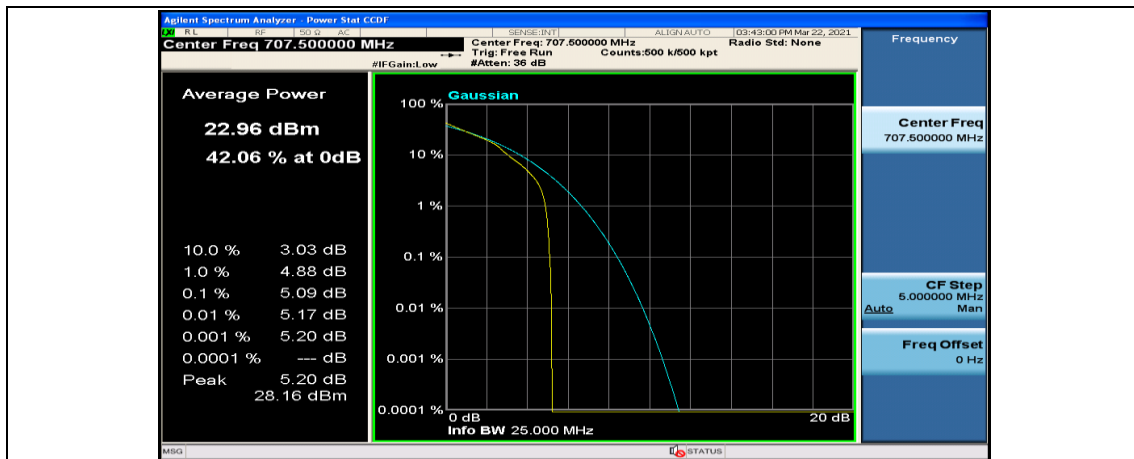


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

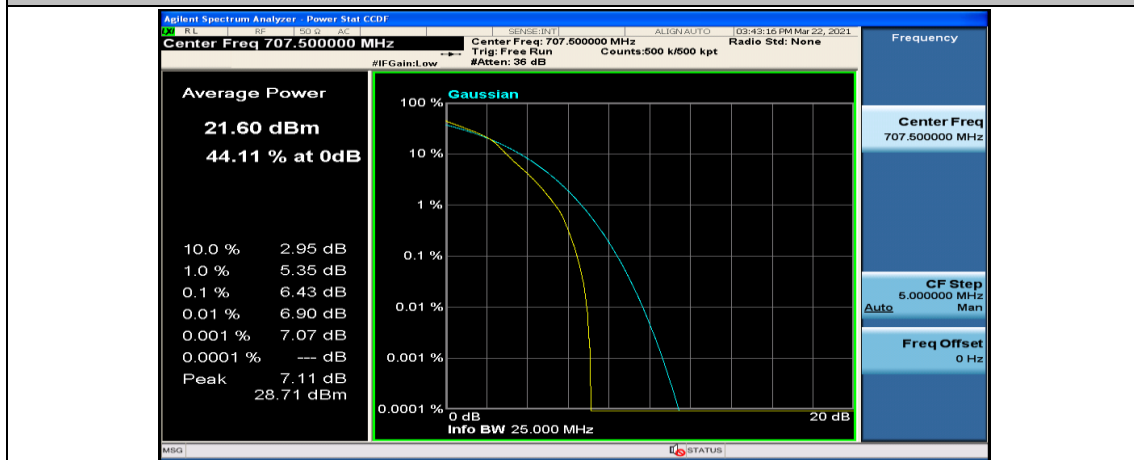


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

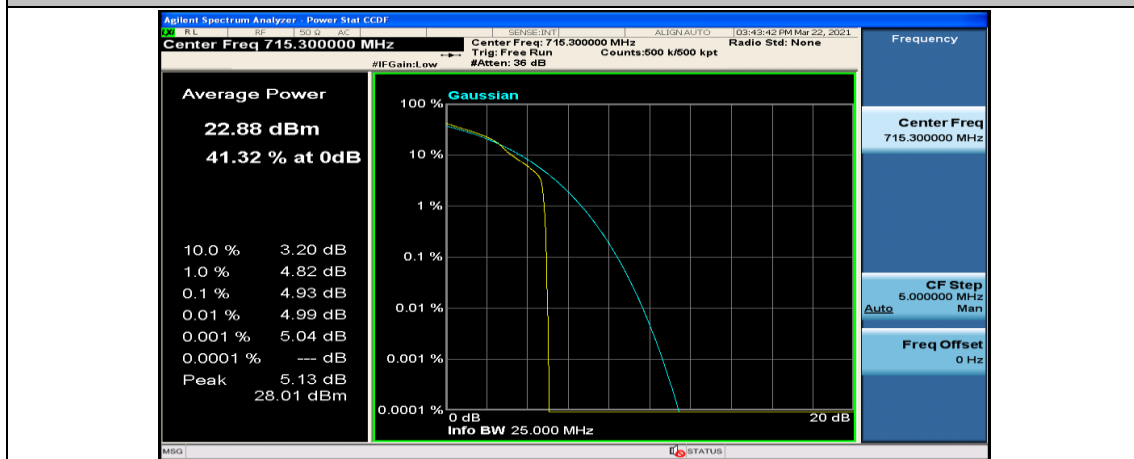




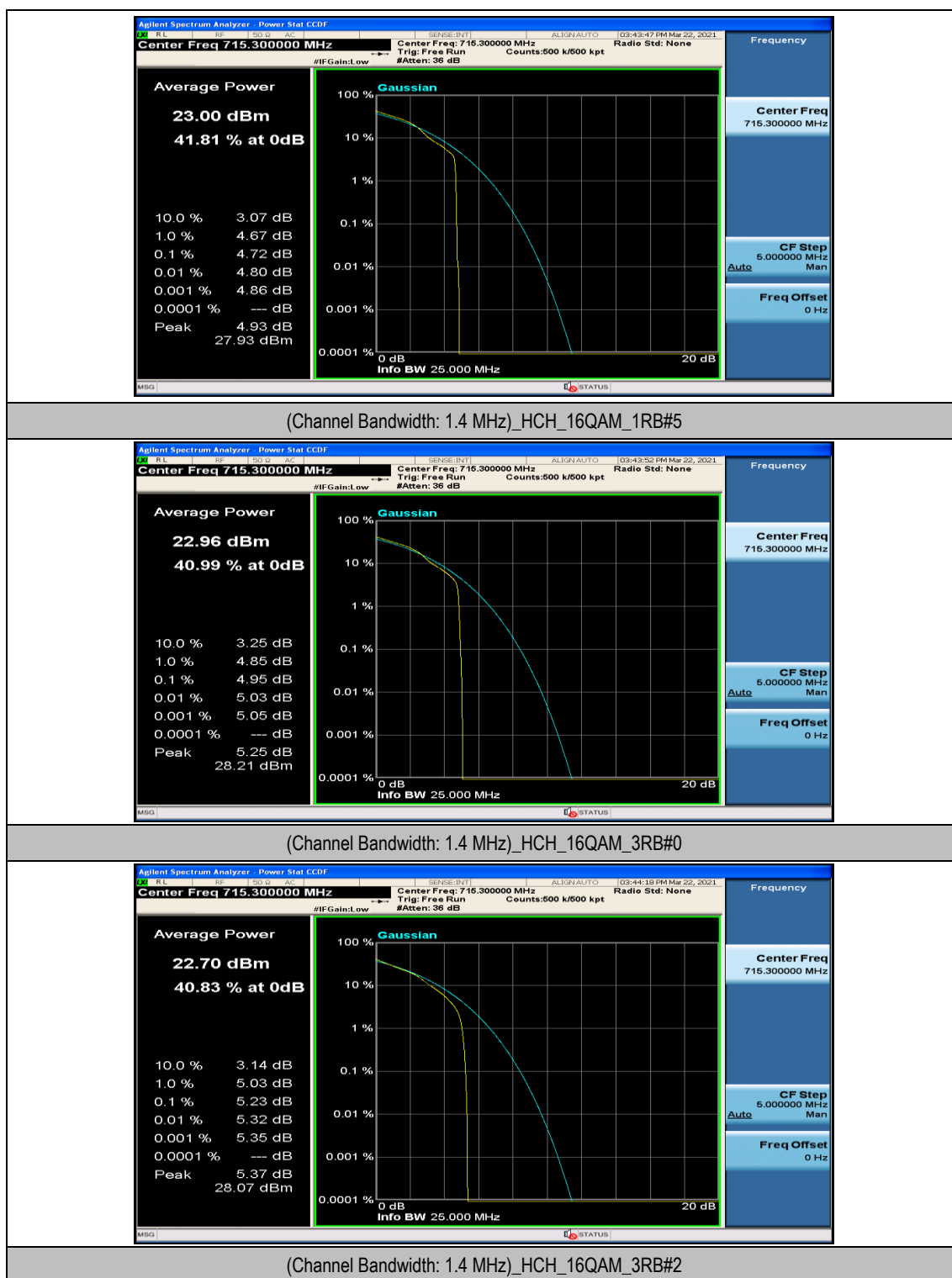
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0

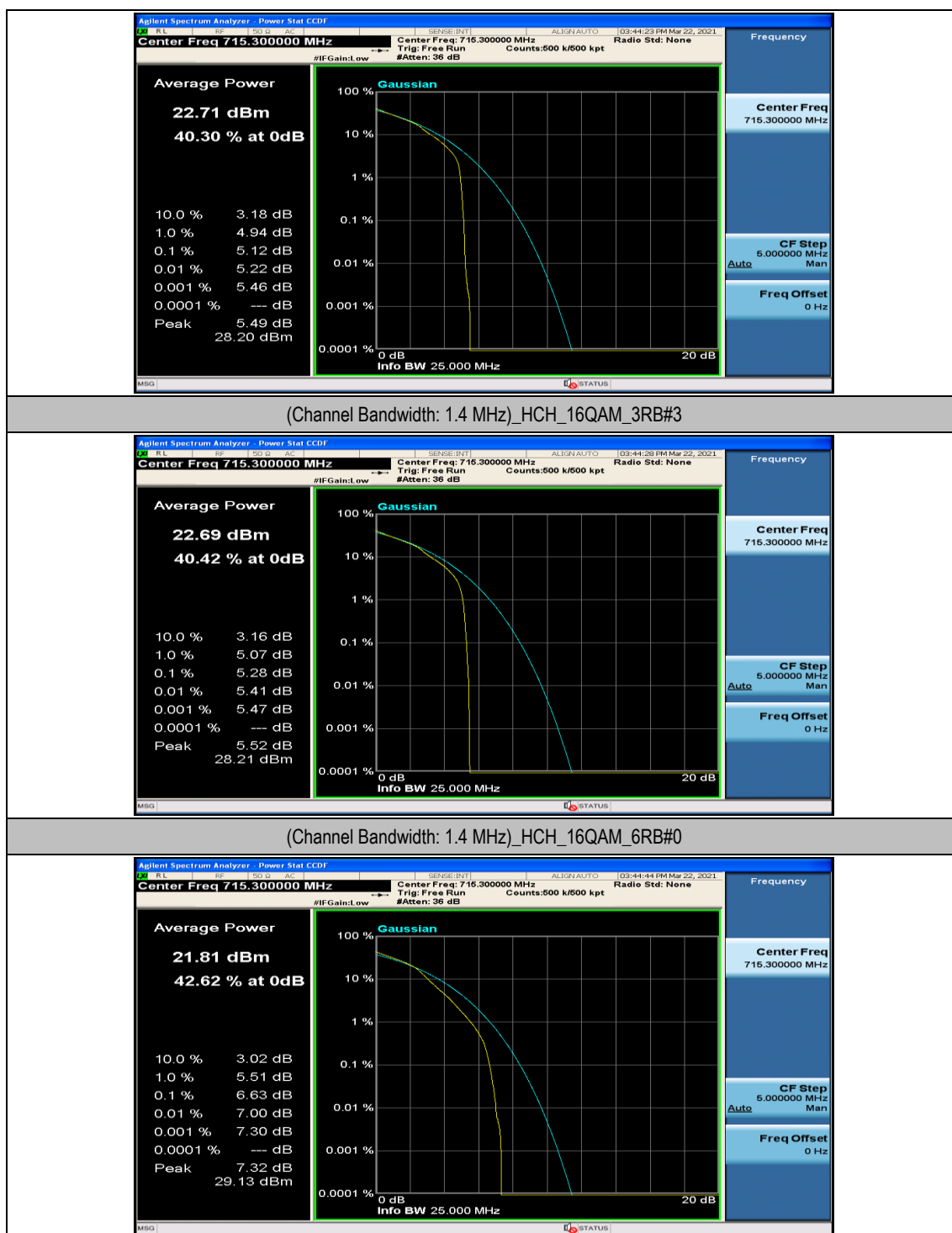


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



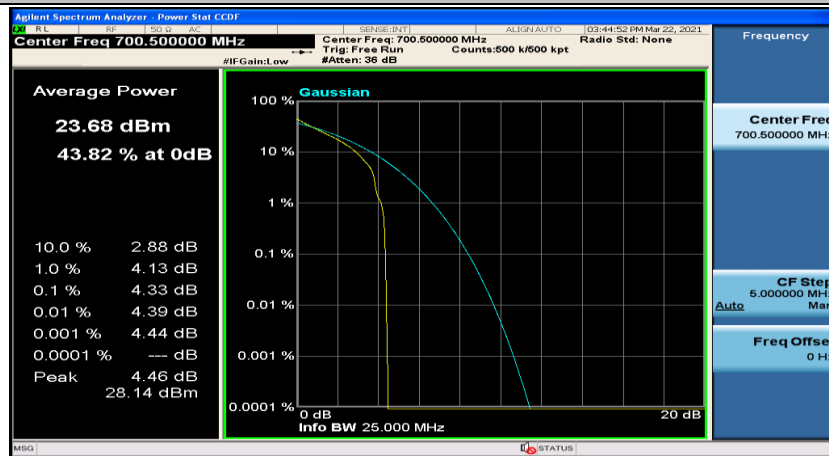
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



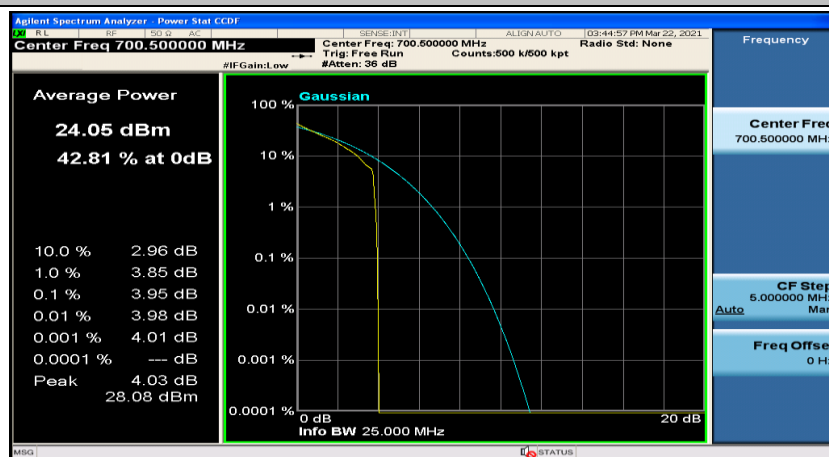


Channel Bandwidth: 3 MHz

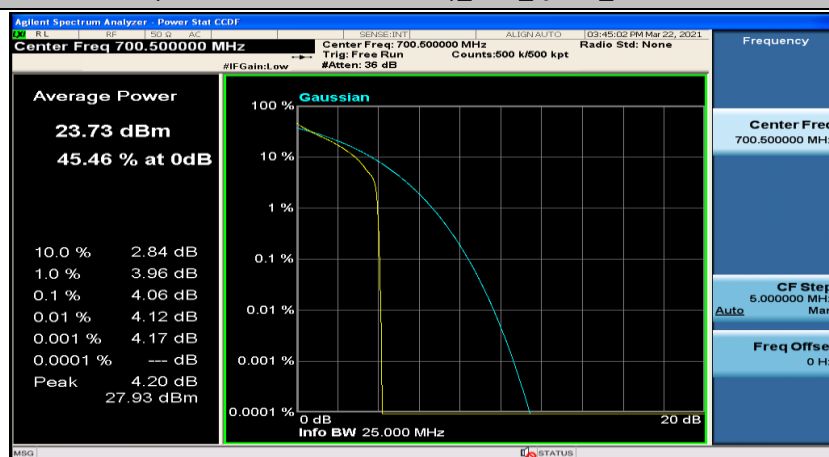
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



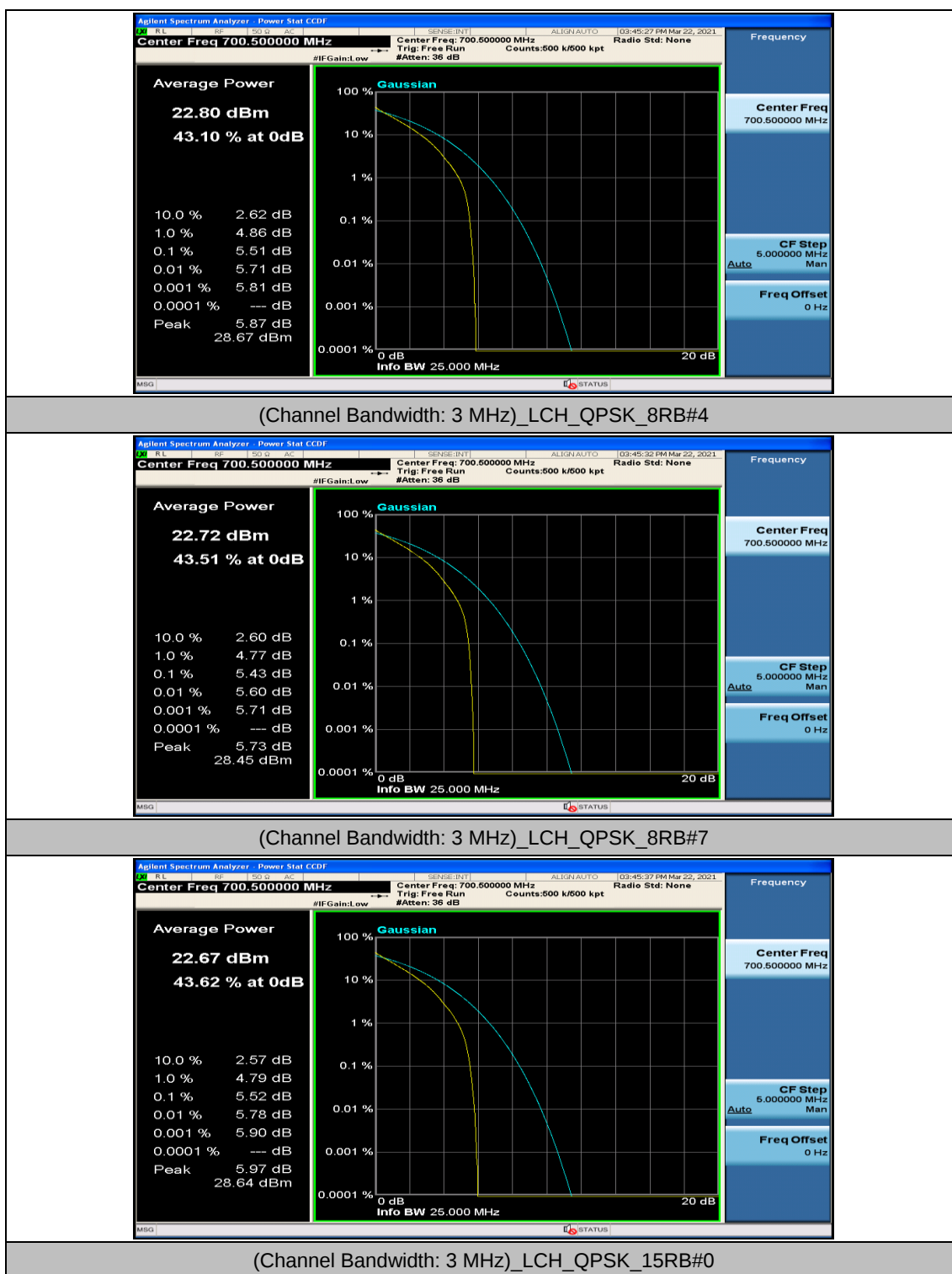
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7

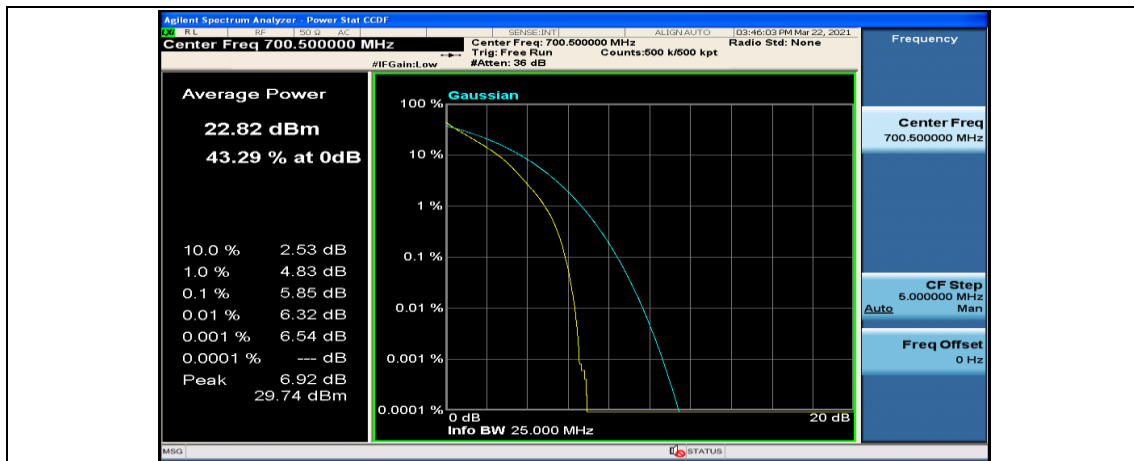


(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14

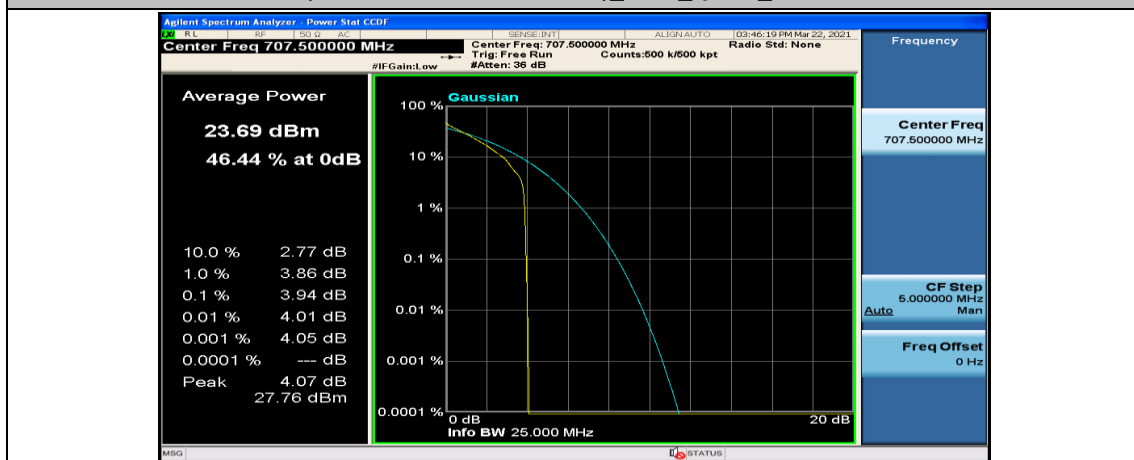


(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0

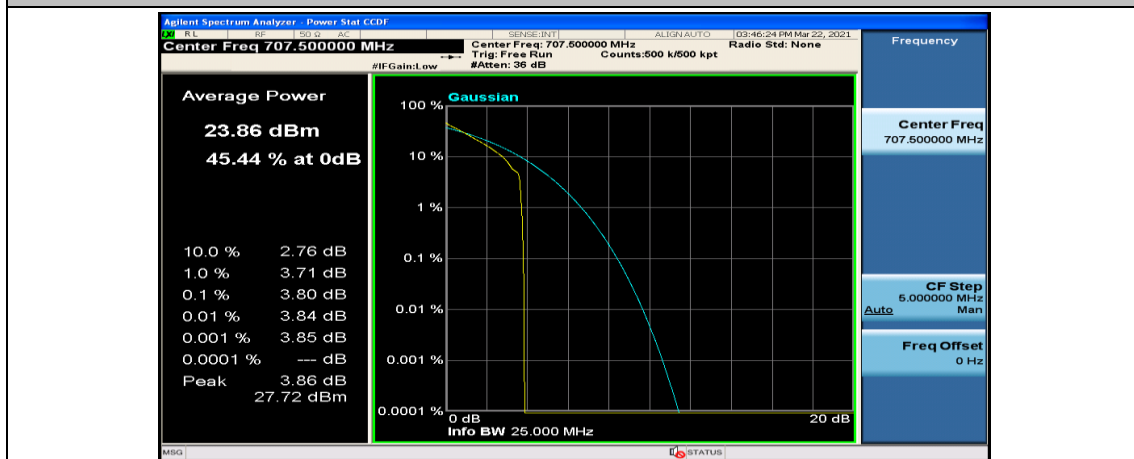




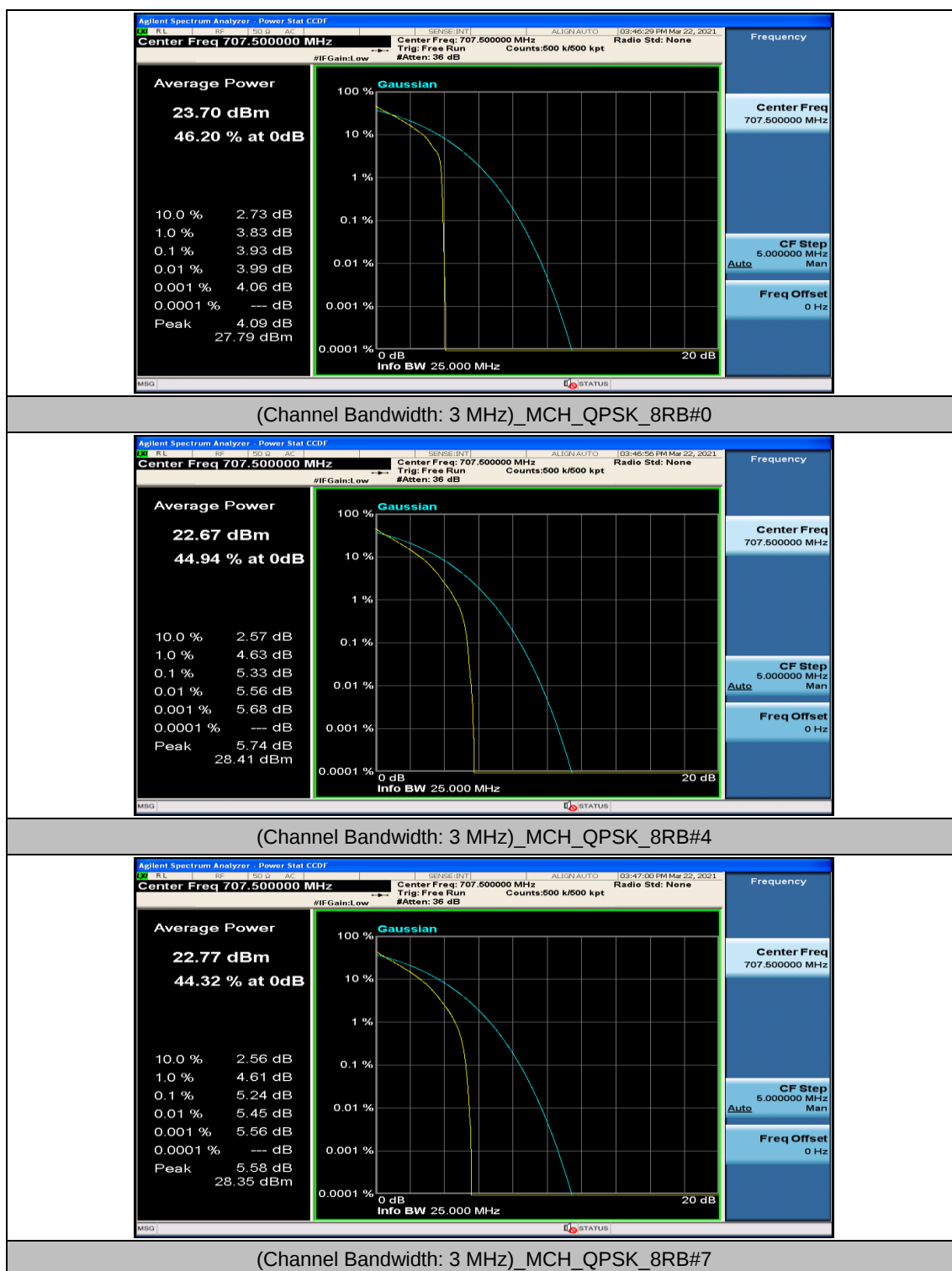
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

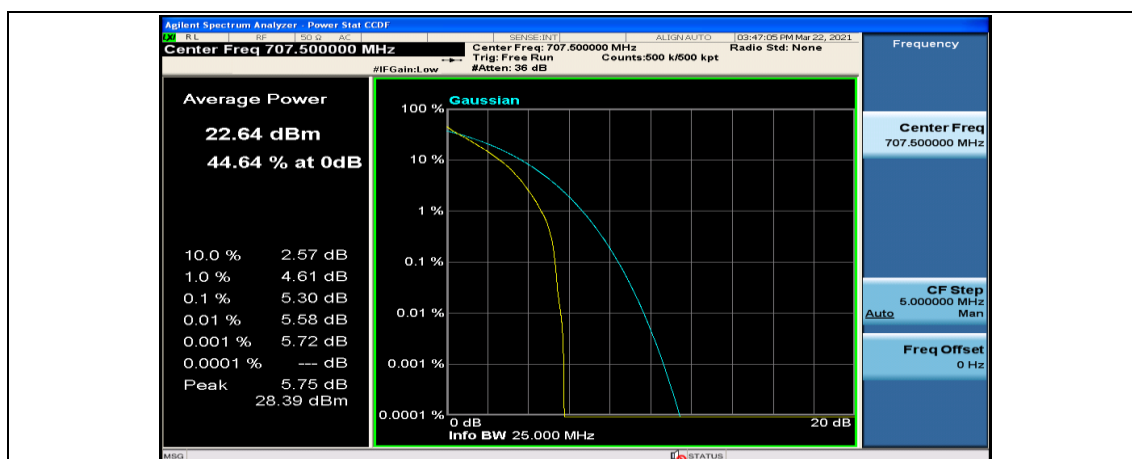


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7

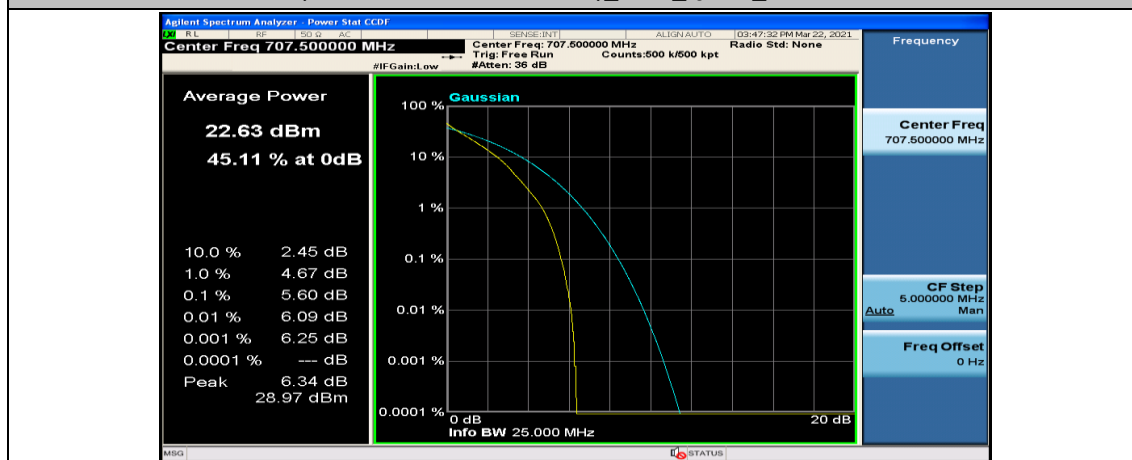


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

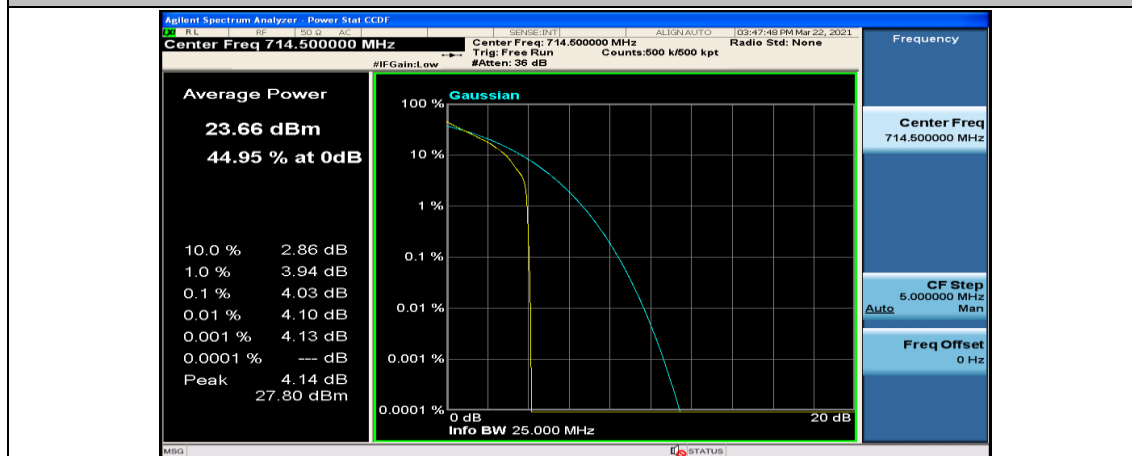




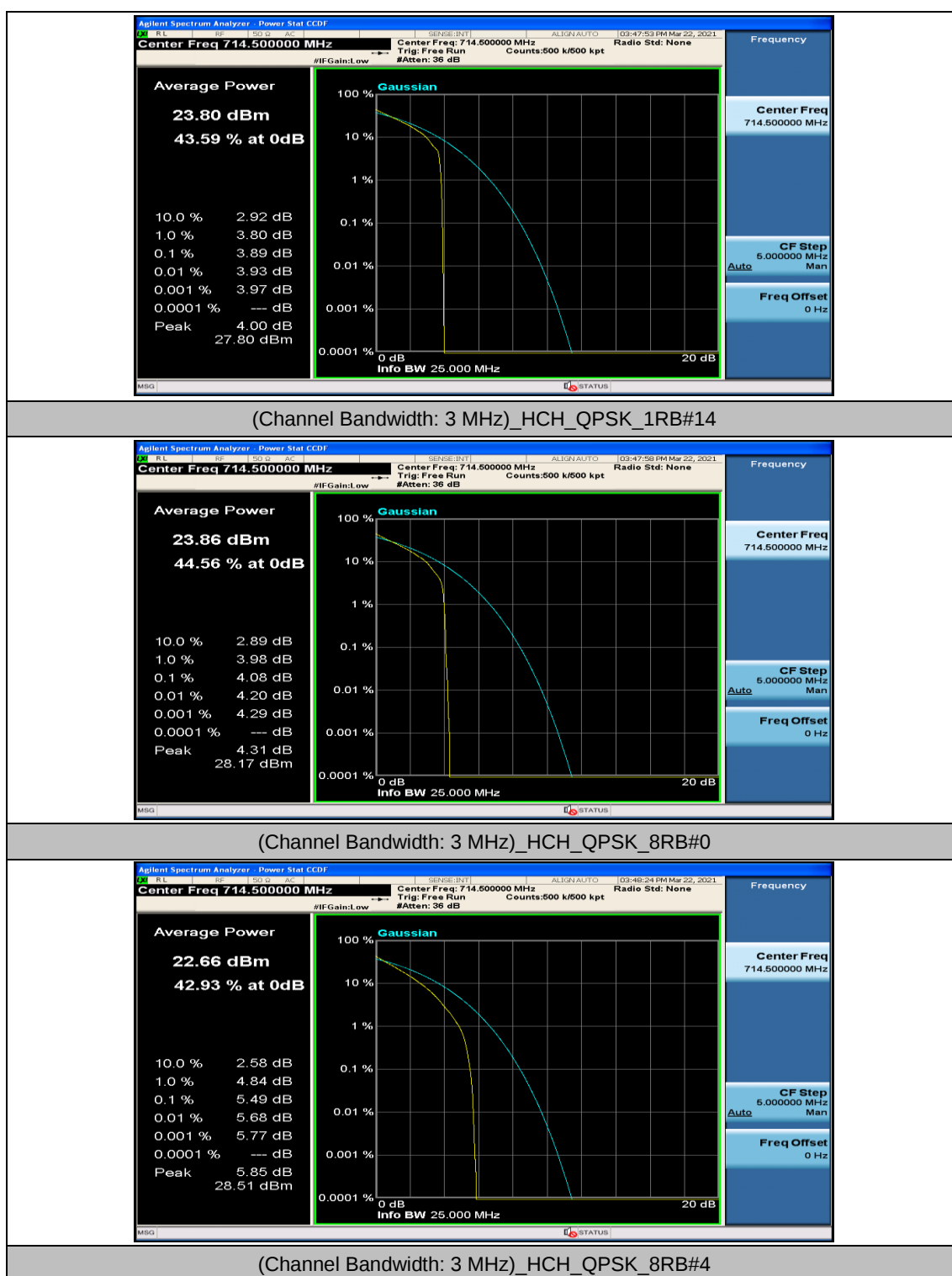
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

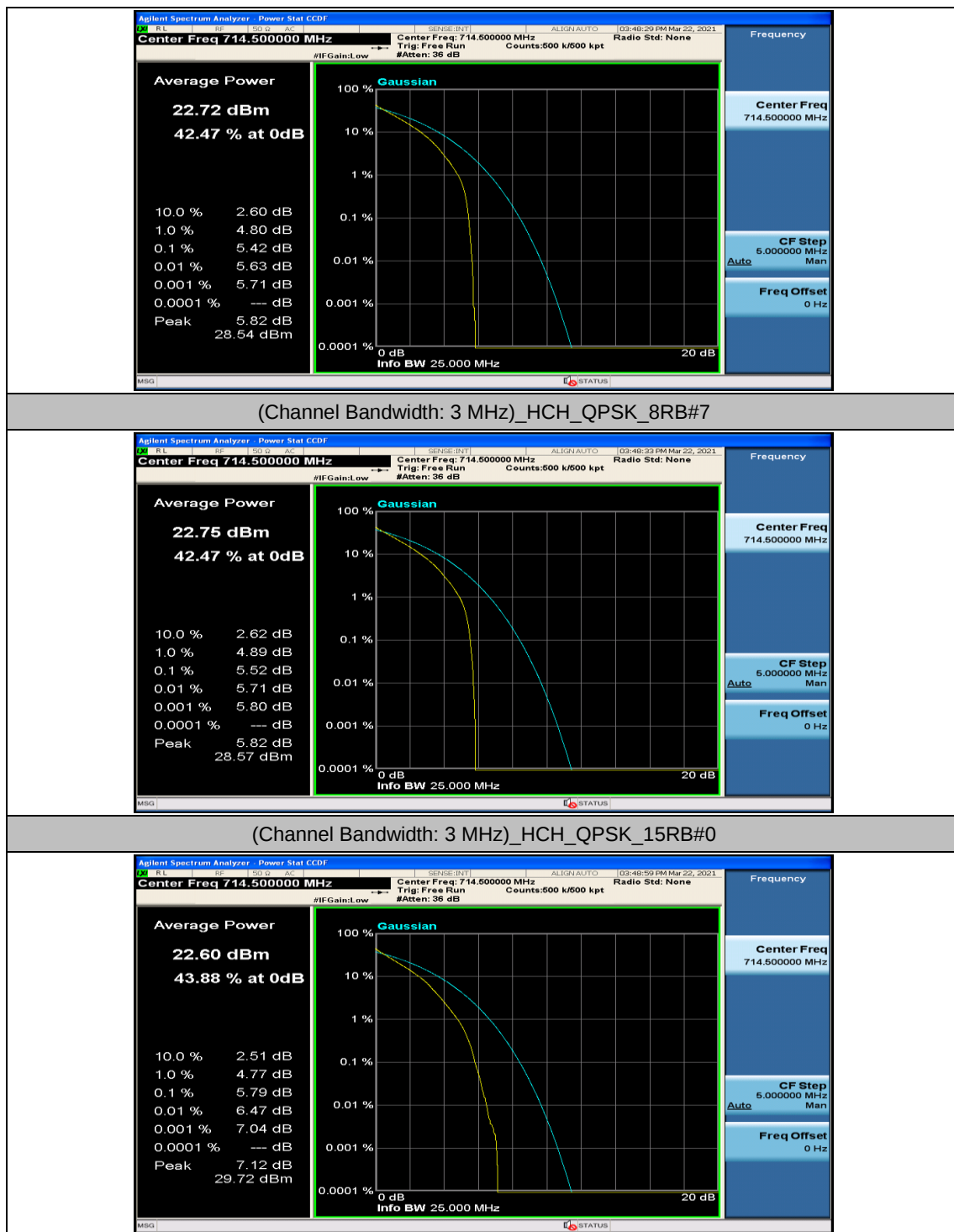


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

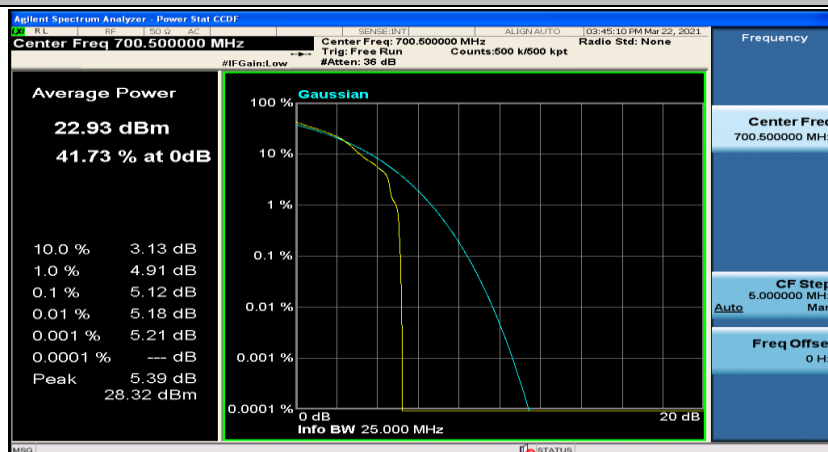


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

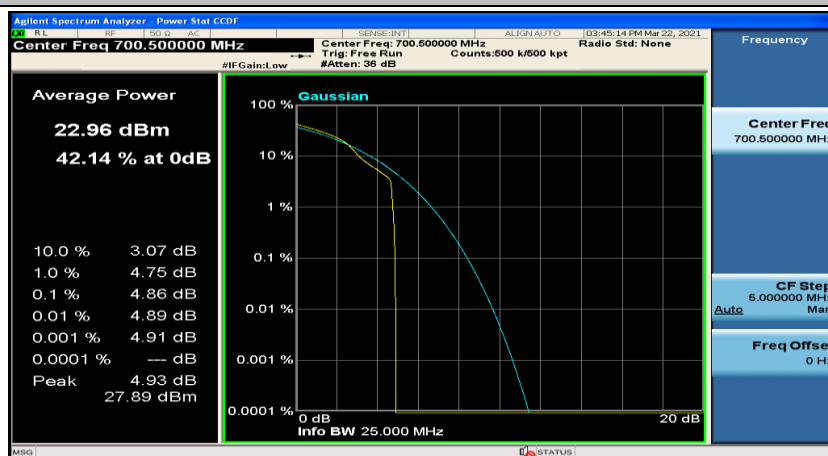




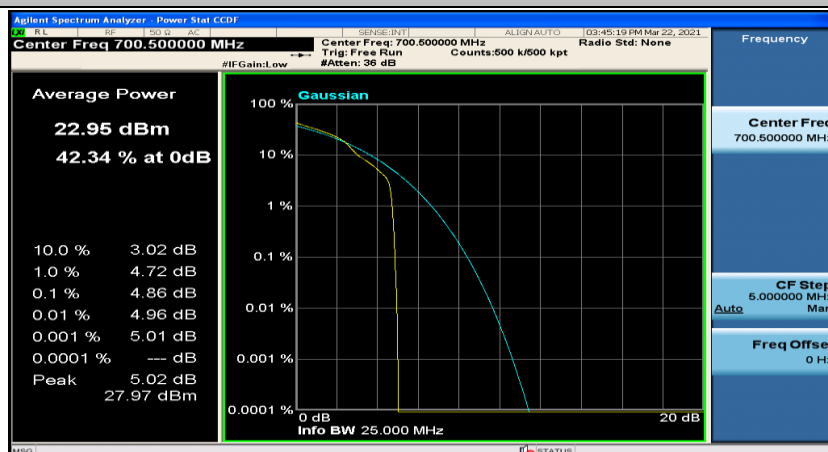
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



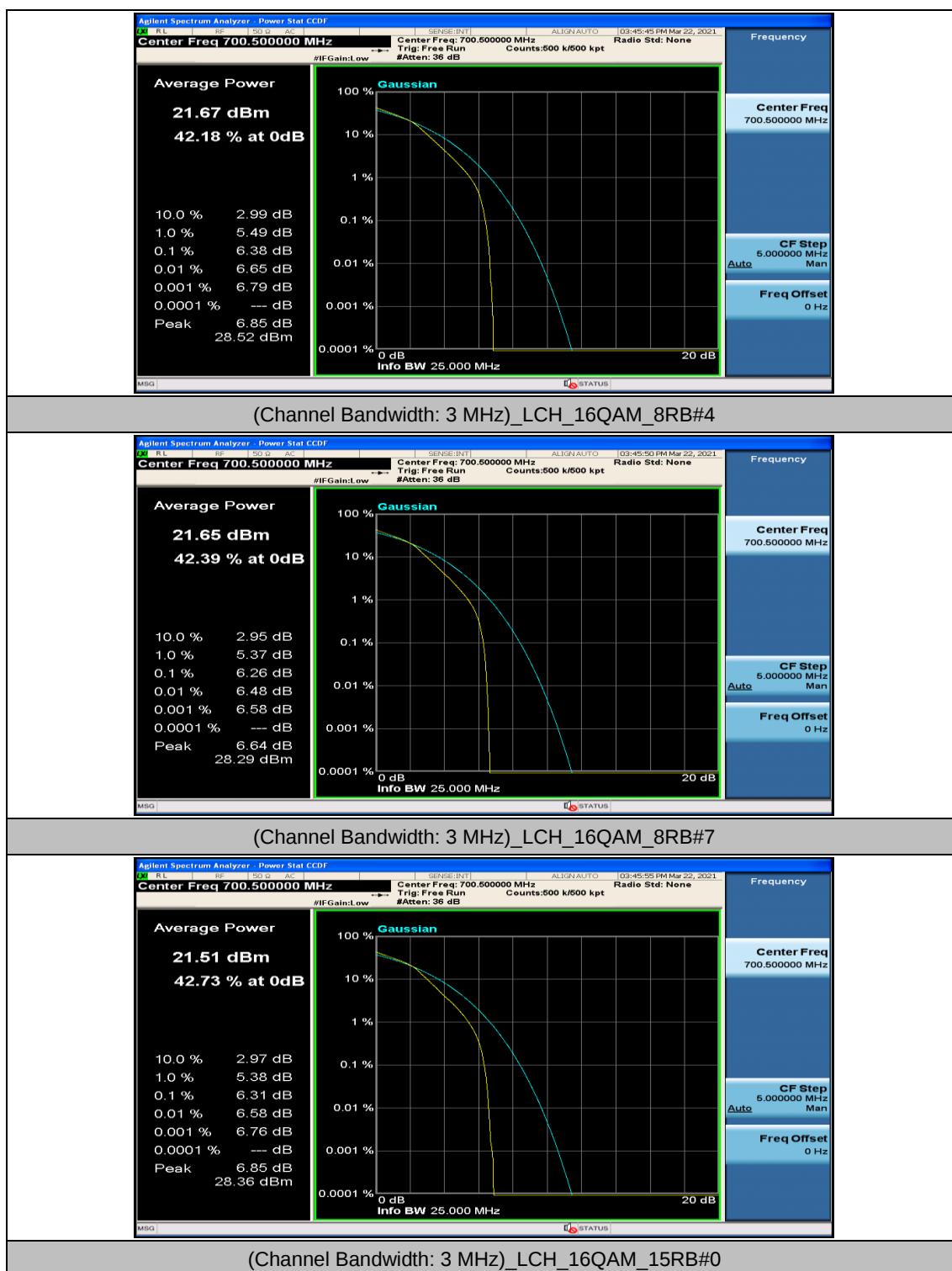
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

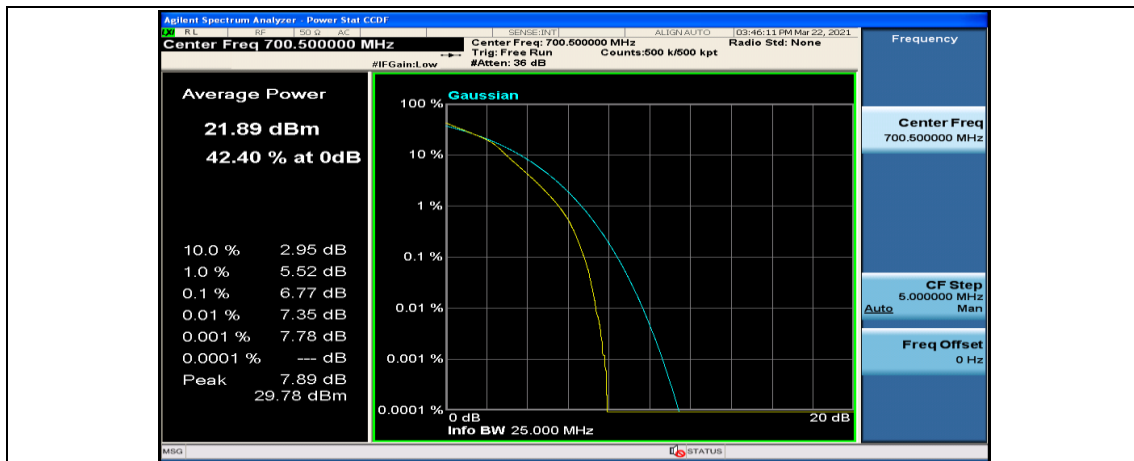


(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

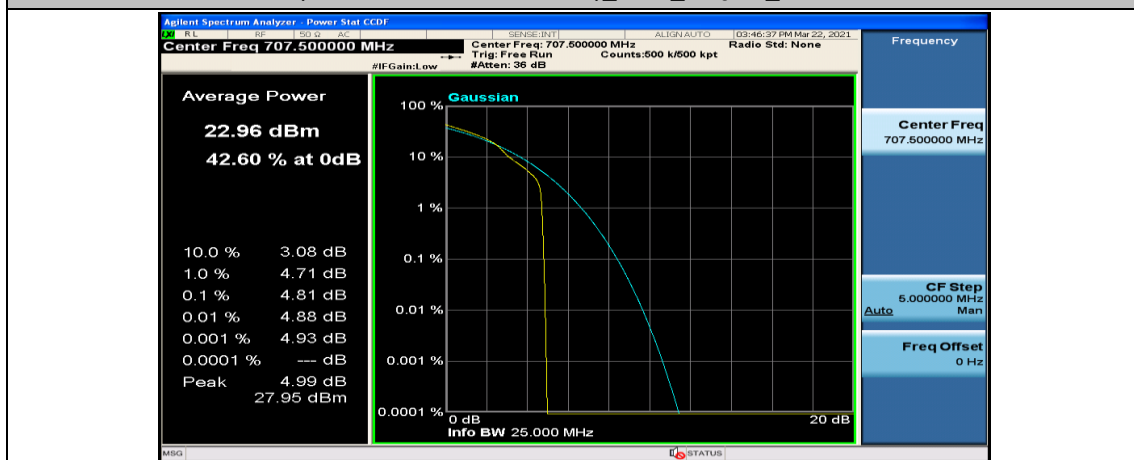


(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0

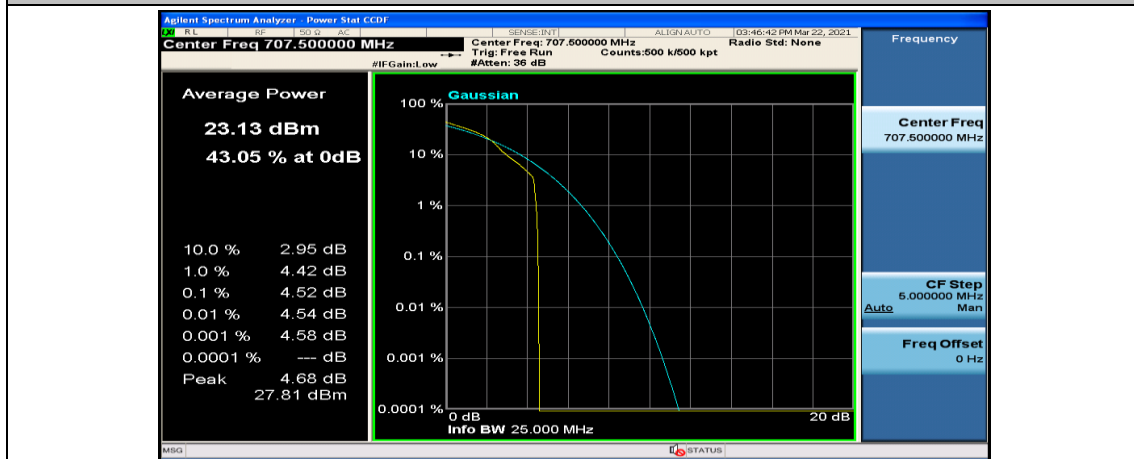




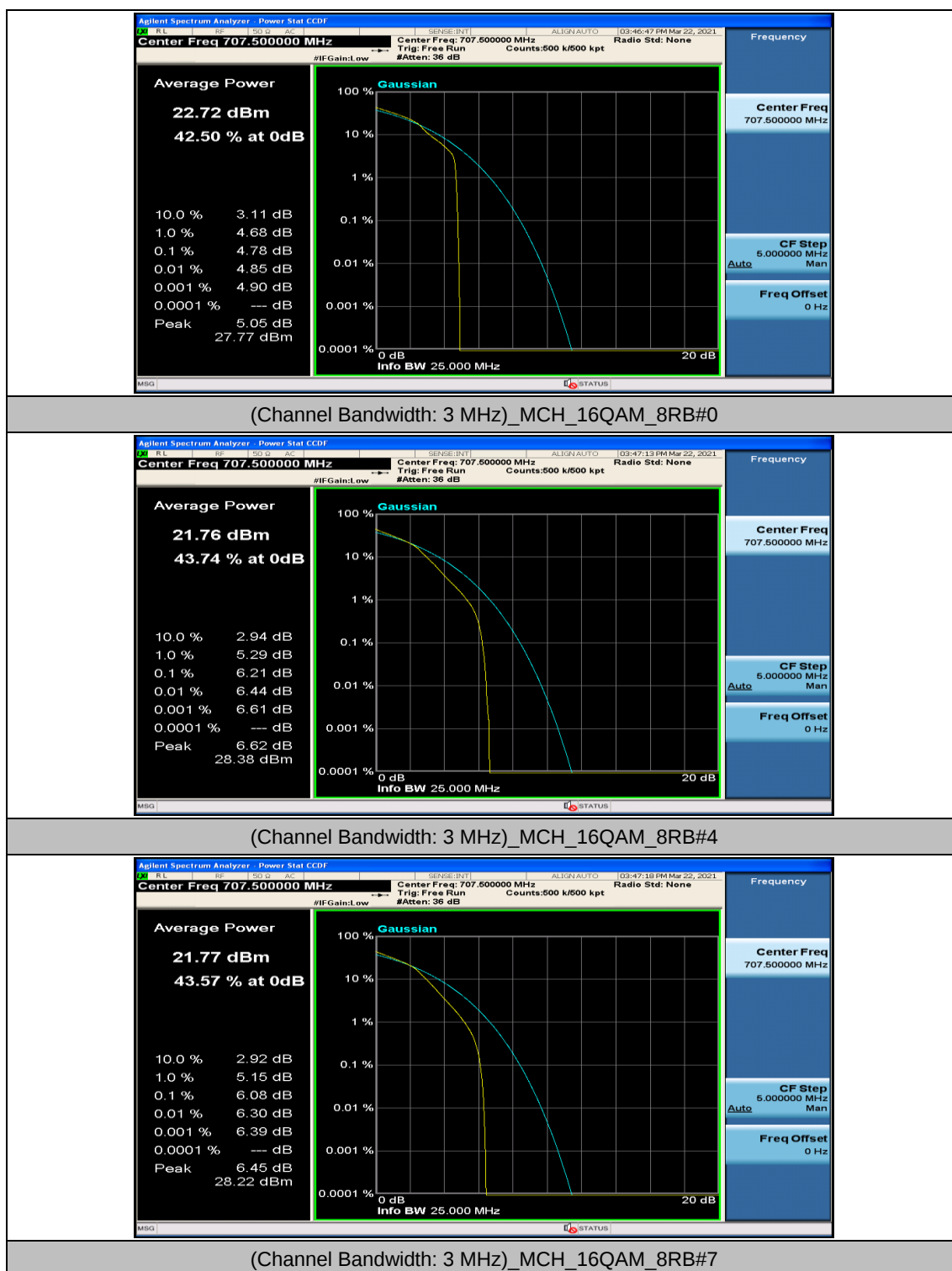
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

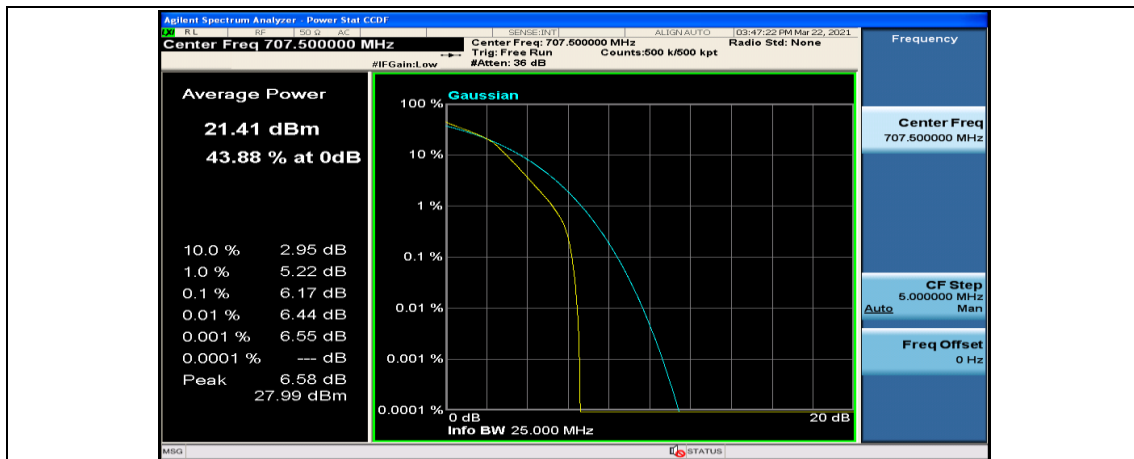


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

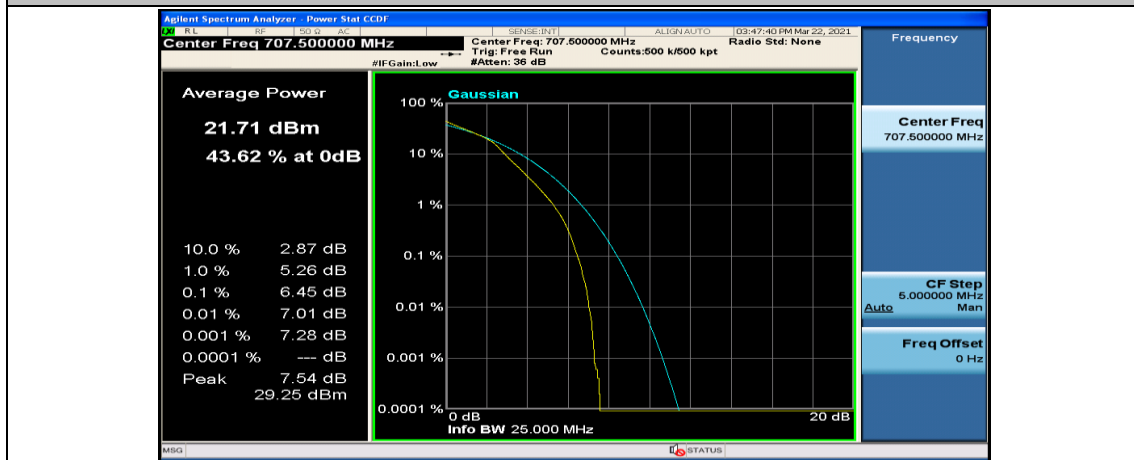


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

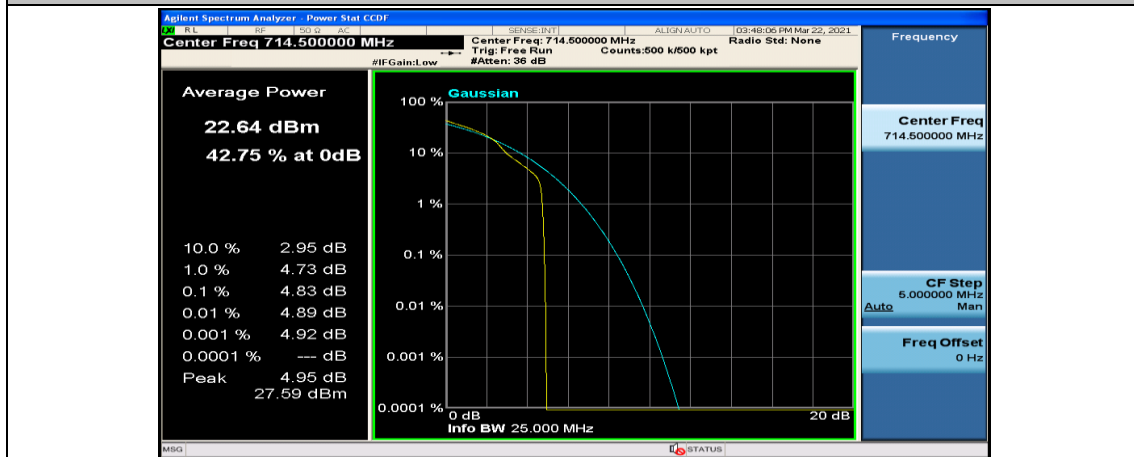




(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

