

Appendix for Band 26(824-849MHz)

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	22.59	PASS
		1	3	22.67	PASS
		1	5	22.85	PASS
		3	0	22.72	PASS
		3	2	22.71	PASS
		3	3	22.68	PASS
		6	0	21.74	PASS
	MCH	1	0	23.08	PASS
		1	3	23.07	PASS
		1	5	23.06	PASS
		3	0	23.12	PASS
		3	2	23.09	PASS
		3	3	23.05	PASS
		6	0	22.19	PASS
	HCH	1	0	23.11	PASS
		1	3	23.19	PASS
		1	5	23.29	PASS
		3	0	23.19	PASS
		3	2	23.42	PASS
		3	3	23.28	PASS
		6	0	22.30	PASS
16QAM	LCH	1	0	21.97	PASS
		1	3	22.00	PASS
		1	5	21.69	PASS
		3	0	21.95	PASS
		3	2	22.00	PASS
		3	3	22.01	PASS
		6	0	20.71	PASS
	MCH	1	0	22.48	PASS
		1	3	22.52	PASS
		1	5	22.33	PASS
		3	0	22.16	PASS
		3	2	22.24	PASS

		3	3	22.15	PASS
		6	0	20.79	PASS
	HCH	1	0	22.28	PASS
		1	3	22.19	PASS
		1	5	22.27	PASS
		3	0	22.15	PASS
		3	2	22.28	PASS
		3	3	22.37	PASS
		6	0	21.48	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.73	PASS
		1	7	22.89	PASS
		1	14	22.92	PASS
		8	0	21.69	PASS
		8	4	21.73	PASS
		8	7	21.76	PASS
		15	0	21.84	PASS
	MCH	1	0	23.47	PASS
		1	7	23.46	PASS
		1	14	23.13	PASS
		8	0	22.08	PASS
		8	4	22.02	PASS
		8	7	22.05	PASS
		15	0	22.05	PASS
	HCH	1	0	23.29	PASS
		1	7	23.41	PASS
		1	14	23.13	PASS
		8	0	22.31	PASS
		8	4	22.27	PASS
		8	7	22.21	PASS
		15	0	22.32	PASS
16QAM	LCH	1	0	21.98	PASS
		1	7	22.08	PASS
		1	14	21.96	PASS
		8	0	20.70	PASS
		8	4	20.43	PASS
		8	7	20.40	PASS
		15	0	20.60	PASS

	MCH	1	0	22.53	PASS
		1	7	22.58	PASS
		1	14	22.34	PASS
		8	0	21.13	PASS
		8	4	21.07	PASS
		8	7	21.11	PASS
		15	0	21.00	PASS
	HCH	1	0	22.24	PASS
		1	7	22.32	PASS
		1	14	21.89	PASS
		8	0	21.22	PASS
		8	4	21.23	PASS
		8	7	21.22	PASS
		15	0	21.39	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.67	PASS
		1	12	23.31	PASS
		1	24	22.81	PASS
		12	0	21.78	PASS
		12	6	21.87	PASS
		12	13	21.90	PASS
		25	0	21.74	PASS
	MCH	1	0	22.85	PASS
		1	12	23.17	PASS
		1	24	22.87	PASS
		12	0	21.99	PASS
		12	6	22.07	PASS
		12	13	22.01	PASS
		25	0	21.95	PASS
	HCH	1	0	23.12	PASS
		1	12	23.68	PASS
		1	24	23.21	PASS
		12	0	22.30	PASS
		12	6	22.49	PASS
		12	13	22.29	PASS
		25	0	22.30	PASS
16QAM	LCH	1	0	21.48	PASS
		1	12	21.84	PASS

		1	24	21.80	PASS
		12	0	20.61	PASS
		12	6	20.73	PASS
		12	13	20.69	PASS
		25	0	20.82	PASS
	MCH	1	0	22.21	PASS
		1	12	22.33	PASS
		1	24	21.82	PASS
		12	0	21.07	PASS
		12	6	20.84	PASS
		12	13	20.94	PASS
		25	0	21.13	PASS
	HCH	1	0	21.92	PASS
		1	12	22.29	PASS
		1	24	21.46	PASS
		12	0	21.13	PASS
		12	6	21.31	PASS
		12	13	21.20	PASS
		25	0	21.27	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.88	PASS
		1	24	23.37	PASS
		1	49	23.28	PASS
		25	0	21.88	PASS
		25	12	22.02	PASS
		25	25	22.03	PASS
		50	0	21.85	PASS
	MCH	1	0	22.95	PASS
		1	24	23.72	PASS
		1	49	22.74	PASS
		25	0	22.06	PASS
		25	12	22.05	PASS
		25	25	21.95	PASS
		50	0	22.10	PASS
	HCH	1	0	23.23	PASS
		1	24	23.45	PASS
		1	49	23.09	PASS
		25	0	22.07	PASS

		25	12	22.27	PASS
		25	25	22.24	PASS
		50	0	22.05	PASS
16QAM	LCH	1	0	22.22	PASS
		1	24	22.66	PASS
		1	49	22.47	PASS
		25	0	20.63	PASS
		25	12	20.91	PASS
		25	25	20.98	PASS
		50	0	20.70	PASS
	MCH	1	0	23.24	PASS
		1	24	23.76	PASS
		1	49	22.28	PASS
		25	0	21.14	PASS
		25	12	21.04	PASS
		25	25	20.90	PASS
		50	0	21.00	PASS
	HCH	1	0	22.10	PASS
		1	24	22.33	PASS
		1	49	21.92	PASS
		25	0	21.04	PASS
		25	12	21.23	PASS
		25	25	21.29	PASS
		50	0	21.04	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.93	PASS
		1	37	23.76	PASS
		1	74	22.91	PASS
		37	0	22.00	PASS
		37	18	22.18	PASS
		37	38	22.18	PASS
		75	0	21.96	PASS
	MCH	1	0	22.66	PASS
		1	37	23.40	PASS
		1	74	22.55	PASS
		37	0	21.98	PASS
		37	18	22.02	PASS
		37	38	21.82	PASS

	HCH	75	0	21.95	PASS
		1	0	23.06	PASS
		1	37	22.97	PASS
		1	74	23.19	PASS
		37	0	22.02	PASS
		37	18	22.01	PASS
		37	38	22.19	PASS
		75	0	22.11	PASS
16QAM	LCH	1	0	22.29	PASS
		1	37	23.16	PASS
		1	74	22.31	PASS
		37	0	20.96	PASS
		37	18	21.07	PASS
		37	38	21.06	PASS
		75	0	20.94	PASS
	MCH	1	0	22.12	PASS
		1	37	23.02	PASS
		1	74	21.96	PASS
		37	0	21.00	PASS
		37	18	21.03	PASS
		37	38	20.80	PASS
		75	0	21.03	PASS
	HCH	1	0	22.04	PASS
		1	37	21.97	PASS
		1	74	22.29	PASS
		37	0	21.06	PASS
		37	18	20.96	PASS
		37	38	21.14	PASS
		75	0	21.12	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	4.04	<13	PASS
		1	3	3.98	<13	PASS
		1	5	4.14	<13	PASS
		3	0	4.17	<13	PASS
		3	2	4.12	<13	PASS
		3	3	4.26	<13	PASS
		6	0	4.85	<13	PASS
	MCH	1	0	5.21	<13	PASS
		1	3	5.03	<13	PASS
		1	5	5.07	<13	PASS
		3	0	5.4	<13	PASS
		3	2	5.24	<13	PASS
		3	3	5.24	<13	PASS
		6	0	5.75	<13	PASS
	HCH	1	0	4.68	<13	PASS
		1	3	4.34	<13	PASS
		1	5	4.42	<13	PASS
		3	0	4.6	<13	PASS
		3	2	4.43	<13	PASS
		3	3	4.46	<13	PASS
		6	0	5.26	<13	PASS
16QAM	LCH	1	0	4.89	<13	PASS
		1	3	4.88	<13	PASS
		1	5	5.12	<13	PASS
		3	0	5.04	<13	PASS
		3	2	5.01	<13	PASS
		3	3	5.13	<13	PASS
		6	0	5.72	<13	PASS
	MCH	1	0	5.98	<13	PASS
		1	3	5.8	<13	PASS
		1	5	5.91	<13	PASS
		3	0	6.21	<13	PASS

		3	2	6.06	<13	PASS
		3	3	6.13	<13	PASS
		6	0	6.51	<13	PASS
	HCH	1	0	5.55	<13	PASS
		1	3	5.41	<13	PASS
		1	5	5.34	<13	PASS
		3	0	5.65	<13	PASS
		3	2	5.48	<13	PASS
		3	3	5.47	<13	PASS
		6	0	6.04	<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	4.05	<13	PASS
		1	7	4.2	<13	PASS
		1	14	4.53	<13	PASS
		8	0	4.69	<13	PASS
		8	4	4.74	<13	PASS
		8	7	4.86	<13	PASS
		15	0	4.98	<13	PASS
	MCH	1	0	5.32	<13	PASS
		1	7	5.02	<13	PASS
		1	14	4.99	<13	PASS
		8	0	5.5	<13	PASS
		8	4	5.35	<13	PASS
		8	7	5.32	<13	PASS
		15	0	5.75	<13	PASS
	HCH	1	0	5.09	<13	PASS
		1	7	4.47	<13	PASS
		1	14	4.49	<13	PASS
		8	0	5.4	<13	PASS
		8	4	5.21	<13	PASS
		8	7	5.07	<13	PASS
		15	0	5.44	<13	PASS
16QAM	LCH	1	0	4.86	<13	PASS
		1	7	4.92	<13	PASS
		1	14	4.94	<13	PASS
		8	0	5.56	<13	PASS
		8	4	5.72	<13	PASS

		8	7	5.83	<13	PASS
		15	0	5.9	<13	PASS
	MCH	1	0	6.15	<13	PASS
		1	7	5.86	<13	PASS
		1	14	5.81	<13	PASS
		8	0	6.35	<13	PASS
		8	4	6.11	<13	PASS
		8	7	6.17	<13	PASS
		15	0	6.58	<13	PASS
	HCH	1	0	5.91	<13	PASS
		1	7	5.68	<13	PASS
		1	14	5.46	<13	PASS
		8	0	6.3	<13	PASS
		8	4	6.07	<13	PASS
		8	7	6.03	<13	PASS
		15	0	6.31	<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	4.16	<13	PASS
		1	12	4.11	<13	PASS
		1	24	4.95	<13	PASS
		12	0	4.76	<13	PASS
		12	6	4.8	<13	PASS
		12	13	5.16	<13	PASS
		25	0	5.15	<13	PASS
	MCH	1	0	5.31	<13	PASS
		1	12	5.03	<13	PASS
		1	24	4.81	<13	PASS
		12	0	5.42	<13	PASS
		12	6	5.24	<13	PASS
		12	13	5.2	<13	PASS
		25	0	5.65	<13	PASS
	HCH	1	0	5.07	<13	PASS
		1	12	4.92	<13	PASS
		1	24	4.51	<13	PASS
		12	0	5.47	<13	PASS
		12	6	5.3	<13	PASS
		12	13	5.16	<13	PASS

		25	0	5.57	<13	PASS
16QAM	LCH	1	0	5.1	<13	PASS
		1	12	5.14	<13	PASS
		1	24	5.71	<13	PASS
		12	0	5.63	<13	PASS
		12	6	5.74	<13	PASS
		12	13	6.05	<13	PASS
		25	0	6.05	<13	PASS
	MCH	1	0	6.13	<13	PASS
		1	12	5.87	<13	PASS
		1	24	5.6	<13	PASS
		12	0	6.24	<13	PASS
		12	6	6.06	<13	PASS
		12	13	6.05	<13	PASS
		25	0	6.53	<13	PASS
	HCH	1	0	5.77	<13	PASS
		1	12	5.73	<13	PASS
		1	24	5.47	<13	PASS
		12	0	6.31	<13	PASS
		12	6	6.15	<13	PASS
		12	13	6.12	<13	PASS
		25	0	6.44	<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	4.03	<13	PASS
		1	24	4.78	<13	PASS
		1	49	5.37	<13	PASS
		25	0	5.01	<13	PASS
		25	12	5.31	<13	PASS
		25	25	5.72	<13	PASS
		50	0	5.78	<13	PASS
	MCH	1	0	5.36	<13	PASS
		1	24	4.97	<13	PASS
		1	49	4.67	<13	PASS
		25	0	5.54	<13	PASS
		25	12	5.27	<13	PASS
		25	25	5.19	<13	PASS
		50	0	5.57	<13	PASS

	HCH	1	0	4.64	<13	PASS
		1	24	5.05	<13	PASS
		1	49	4.47	<13	PASS
		25	0	5.23	<13	PASS
		25	12	5.32	<13	PASS
		25	25	5.34	<13	PASS
		50	0	5.53	<13	PASS
16QAM	LCH	1	0	4.83	<13	PASS
		1	24	5.24	<13	PASS
		1	49	6.17	<13	PASS
		25	0	5.88	<13	PASS
		25	12	6.27	<13	PASS
		25	25	6.59	<13	PASS
		50	0	6.53	<13	PASS
	MCH	1	0	6.3	<13	PASS
		1	24	5.86	<13	PASS
		1	49	5.61	<13	PASS
		25	0	6.42	<13	PASS
		25	12	6.13	<13	PASS
		25	25	6.04	<13	PASS
		50	0	6.41	<13	PASS
	HCH	1	0	5.55	<13	PASS
		1	24	5.74	<13	PASS
		1	49	5.56	<13	PASS
		25	0	6.11	<13	PASS
		25	12	6.2	<13	PASS
		25	25	6.25	<13	PASS
		50	0	6.32	<13	PASS

Channel Bandwidth: 15 MHz

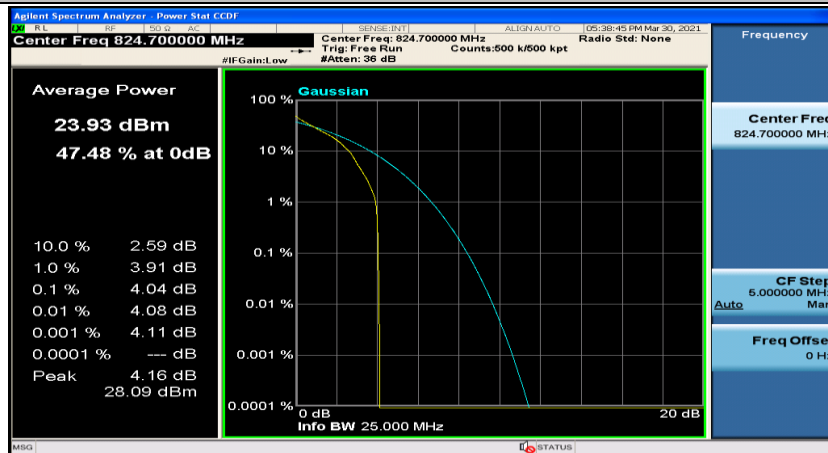
Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.05	<13	PASS
		1	37	5.21	<13	PASS
		1	74	4.82	<13	PASS
		37	0	5.3	<13	PASS
		37	18	5.56	<13	PASS
		37	38	5.42	<13	PASS
		75	0	5.78	<13	PASS
	MCH	1	0	5.03	<13	PASS

		1	37	5	<13	PASS
		1	74	4.95	<13	PASS
		37	0	5.56	<13	PASS
		37	18	5.2	<13	PASS
		37	38	5.16	<13	PASS
		75	0	5.55	<13	PASS
	HCH	1	0	5.19	<13	PASS
		1	37	4.63	<13	PASS
		1	74	4.51	<13	PASS
		37	0	5.28	<13	PASS
		37	18	5.14	<13	PASS
		37	38	5.32	<13	PASS
		75	0	5.75	<13	PASS
16QAM	LCH	1	0	5.01	<13	PASS
		1	37	5.92	<13	PASS
		1	74	5.6	<13	PASS
		37	0	6.19	<13	PASS
		37	18	6.43	<13	PASS
		37	38	6.29	<13	PASS
		75	0	6.55	<13	PASS
	MCH	1	0	5.9	<13	PASS
		1	37	5.82	<13	PASS
		1	74	5.85	<13	PASS
		37	0	6.47	<13	PASS
		37	18	6.08	<13	PASS
		37	38	6.06	<13	PASS
		75	0	6.31	<13	PASS
	HCH	1	0	6.1	<13	PASS
		1	37	5.55	<13	PASS
		1	74	5.51	<13	PASS
		37	0	6.11	<13	PASS
		37	18	5.99	<13	PASS
		37	38	6.21	<13	PASS
		75	0	6.4	<13	PASS

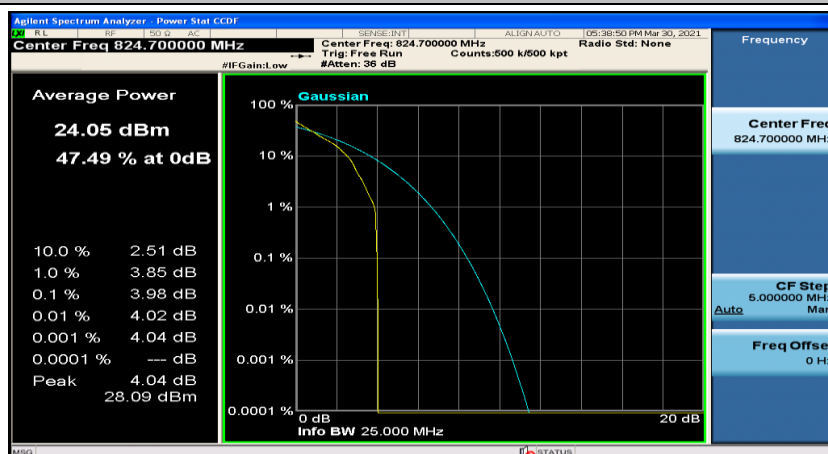
Test Graphs

Channel Bandwidth: 1.4 MHz

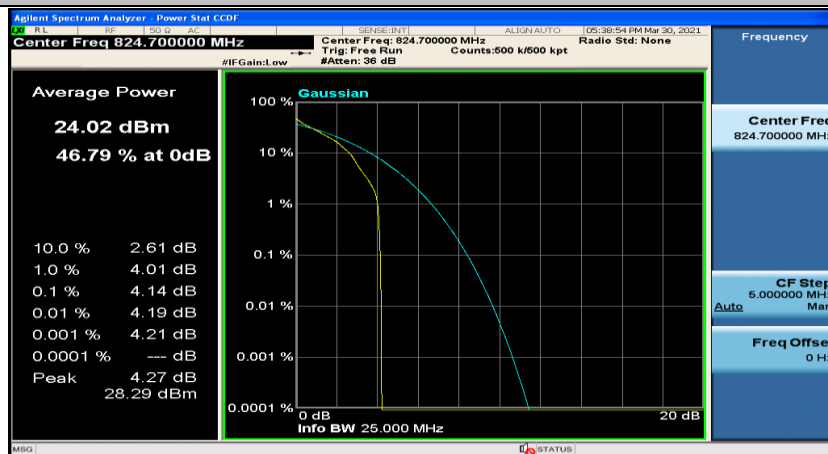
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



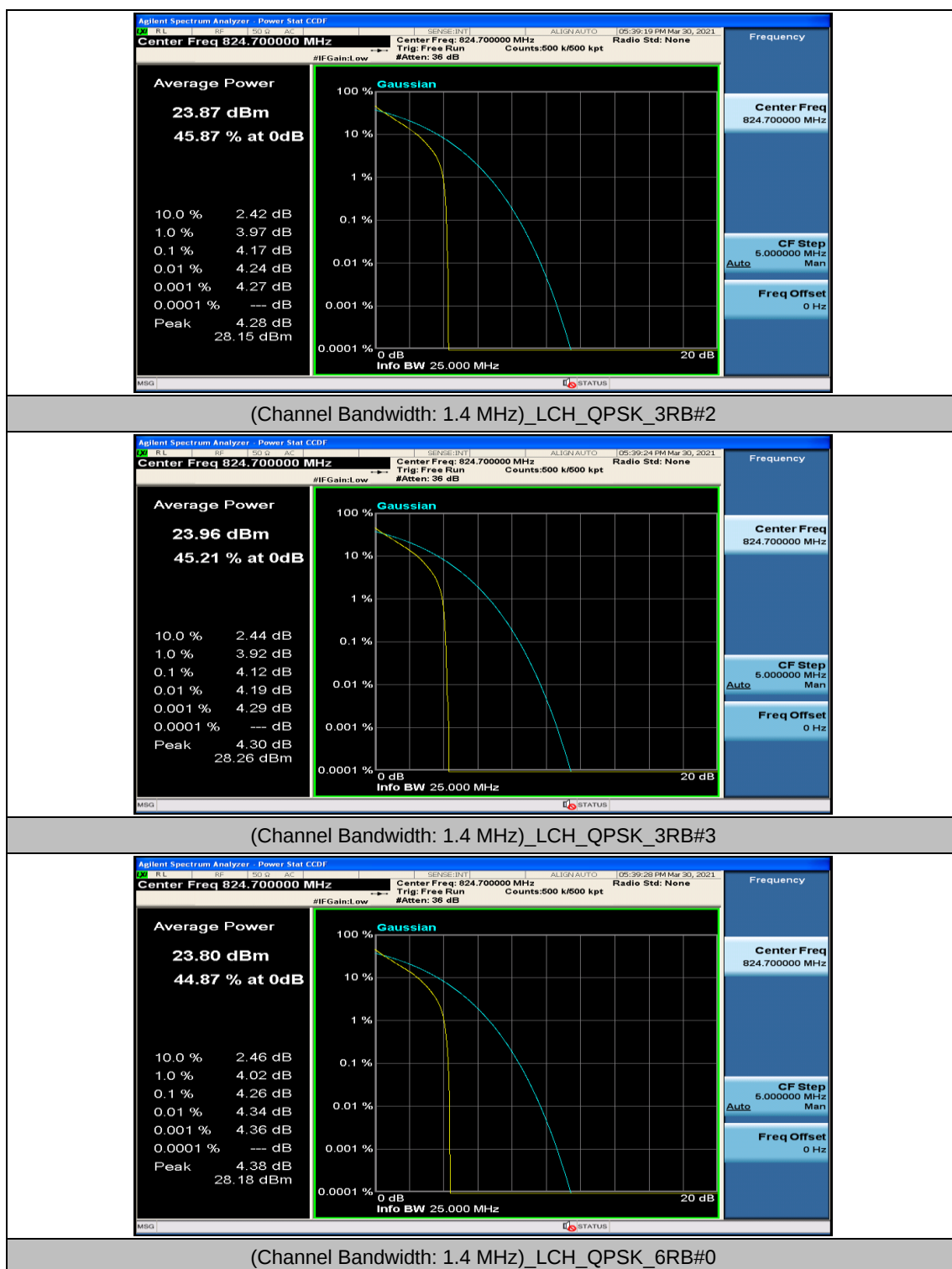
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3

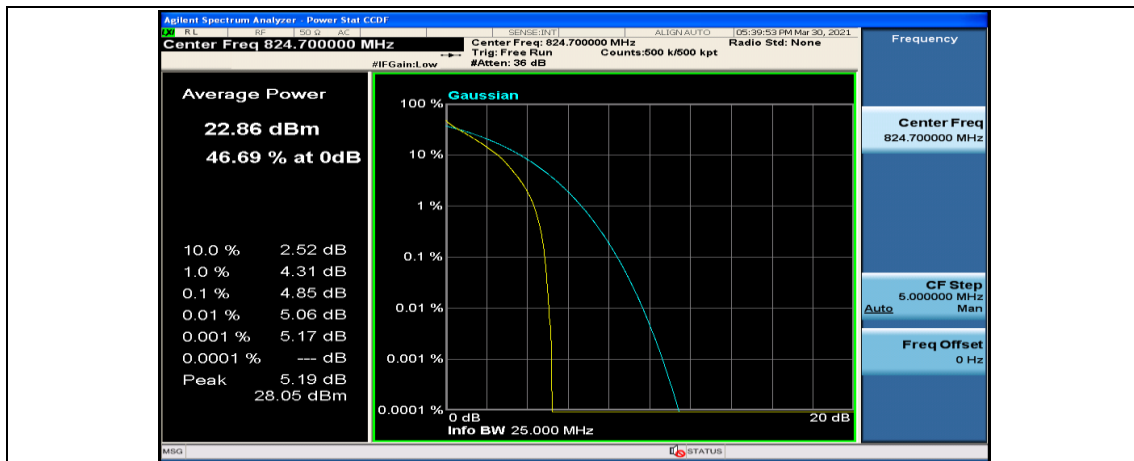


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5

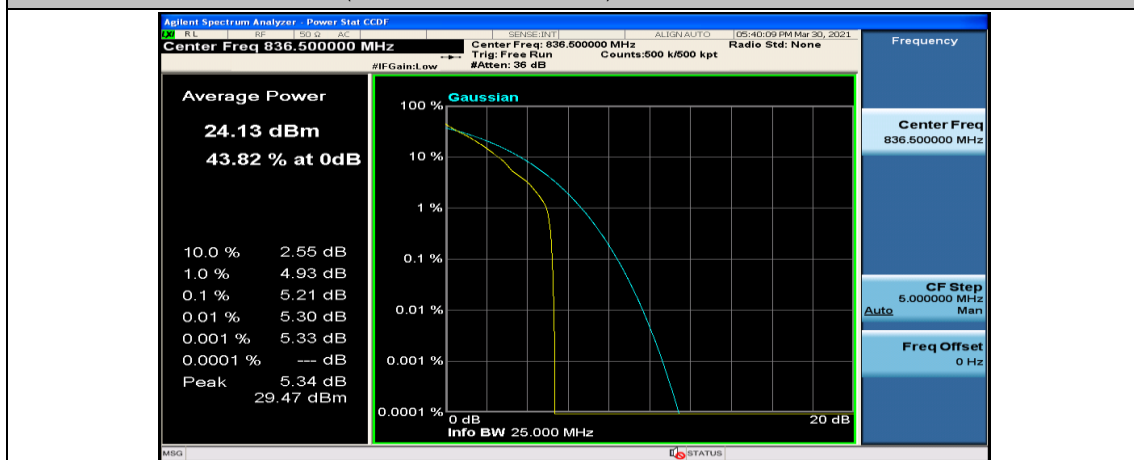


(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0

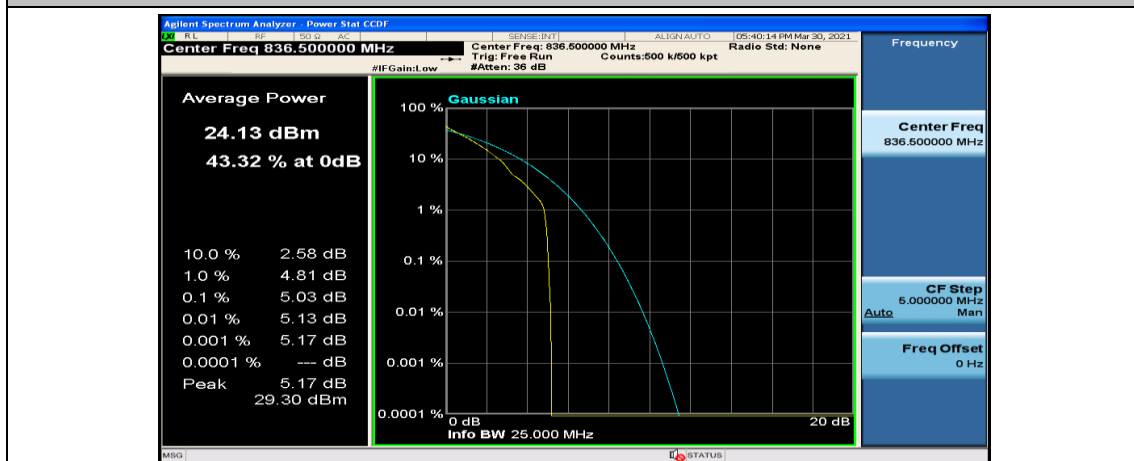




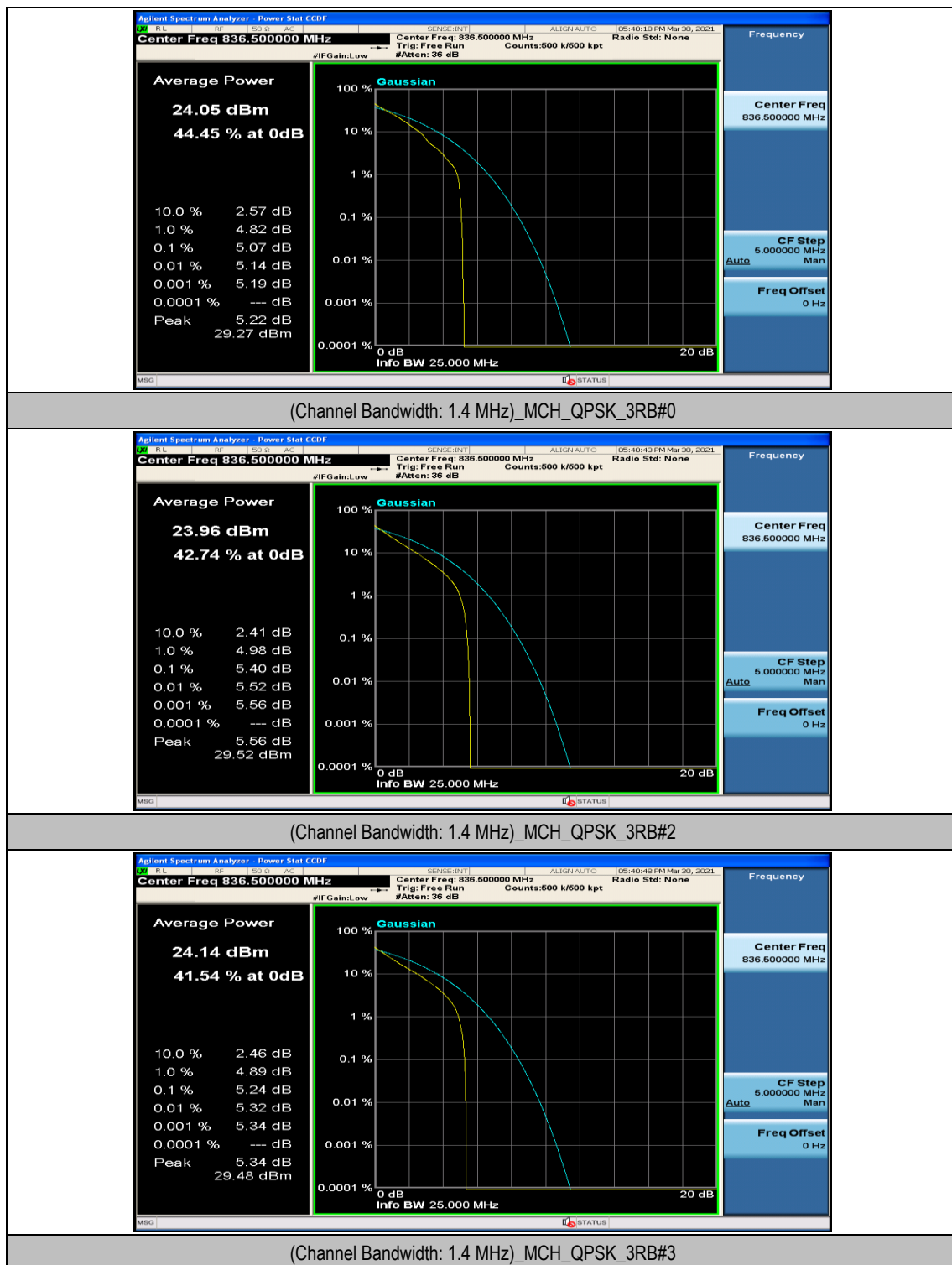
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

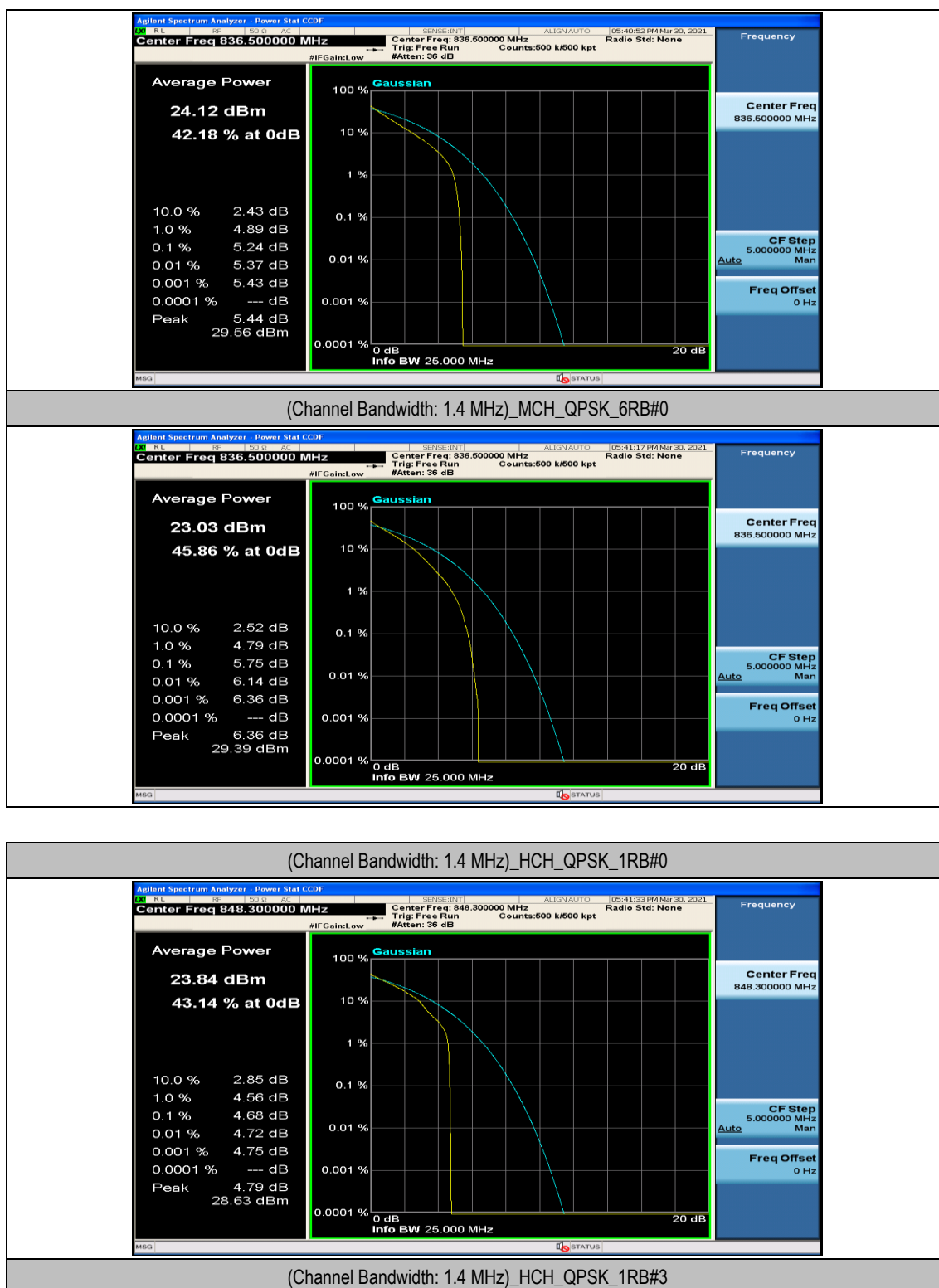


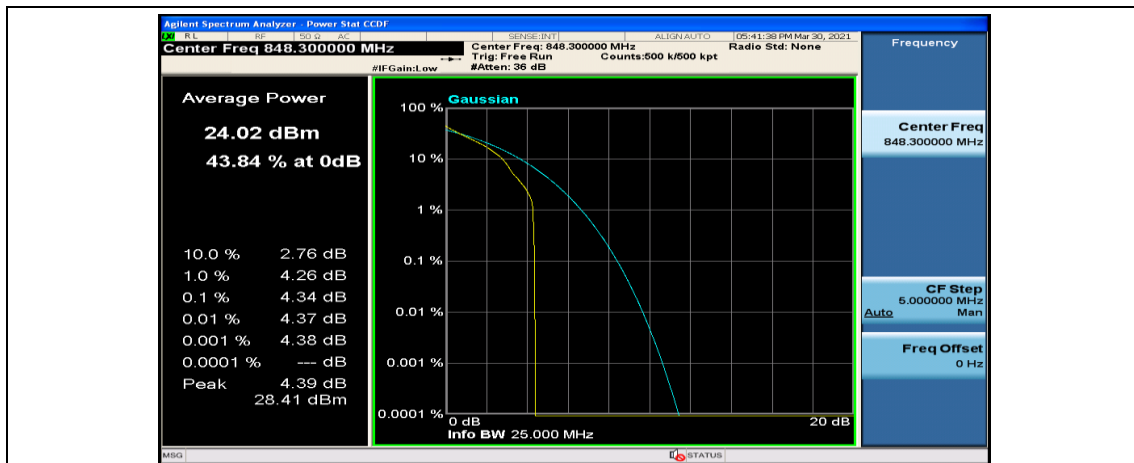
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



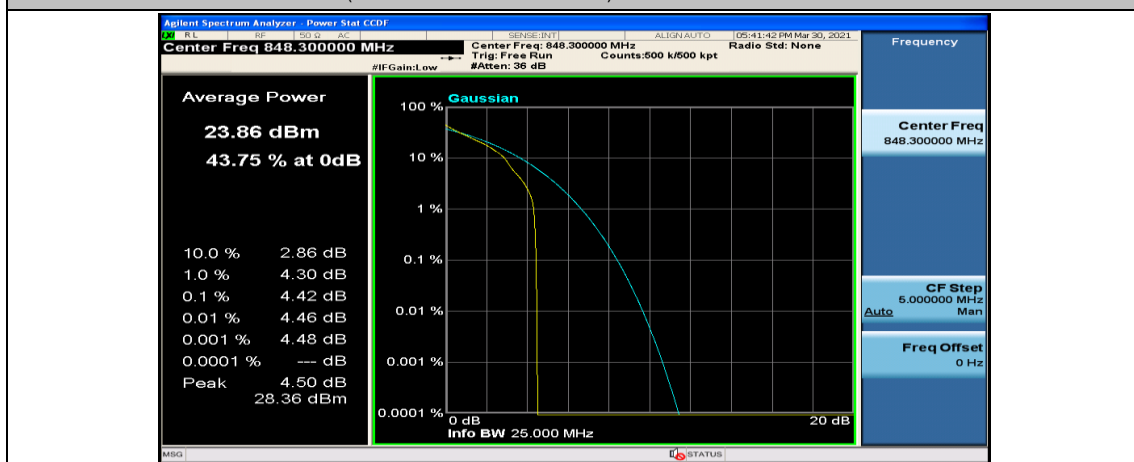
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



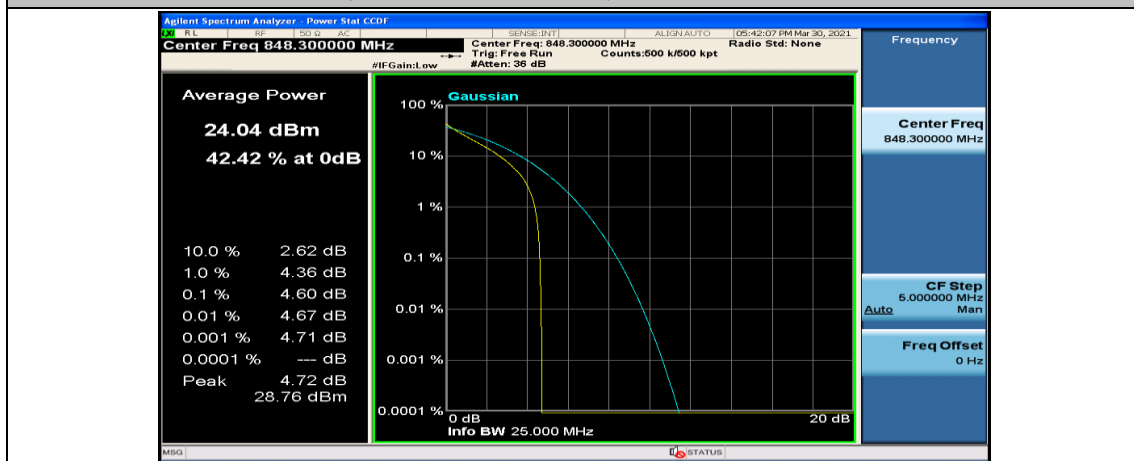




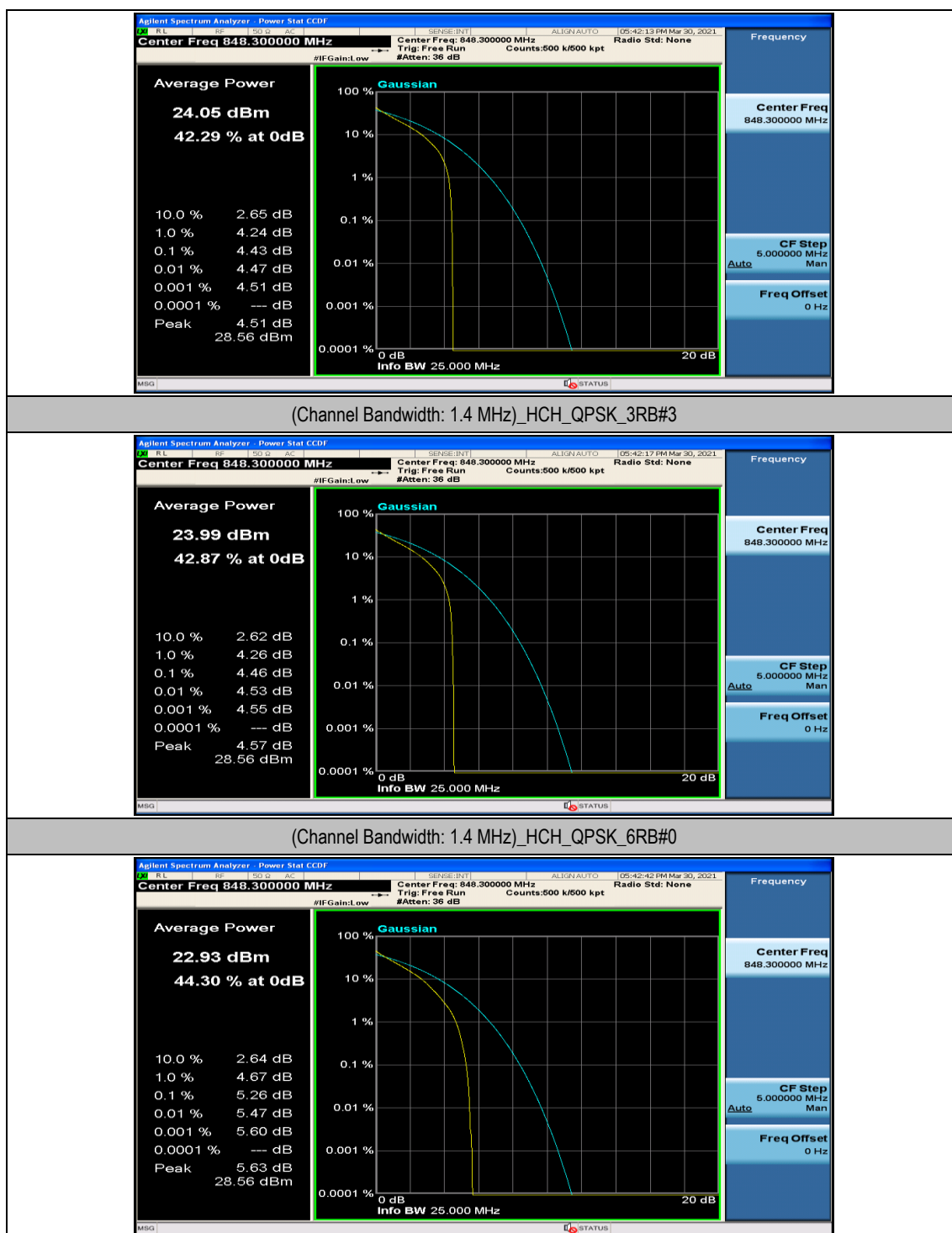
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



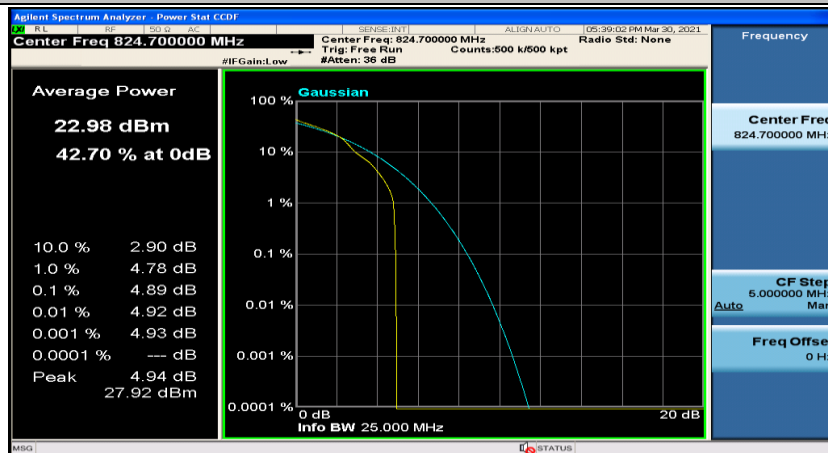
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



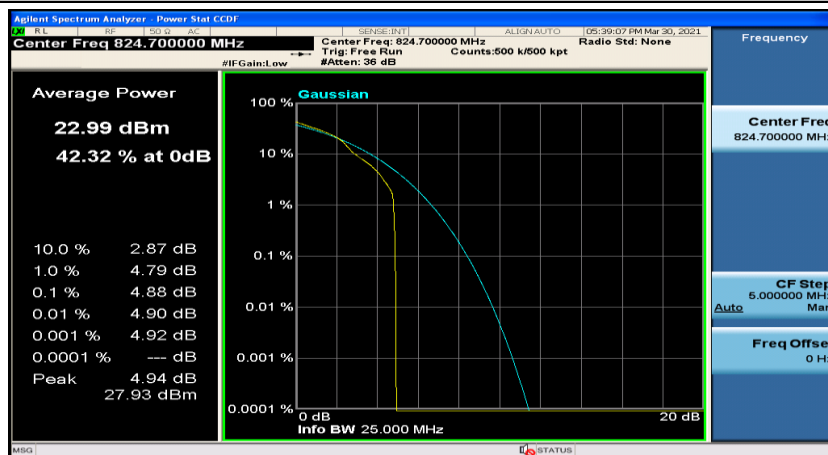
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



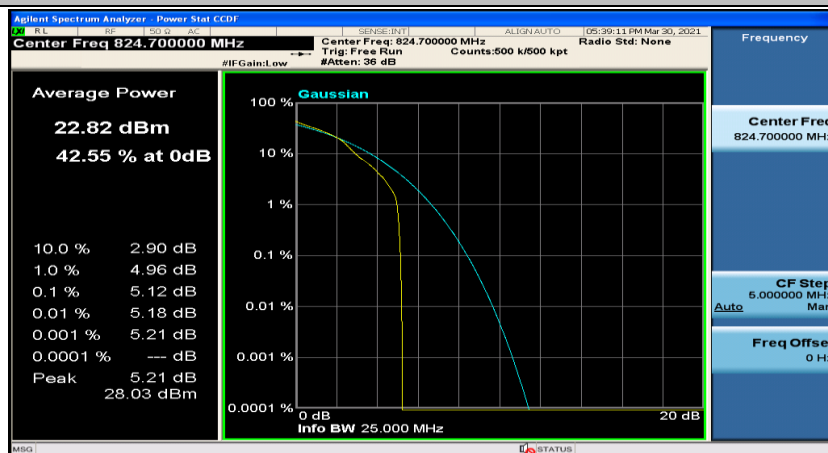
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



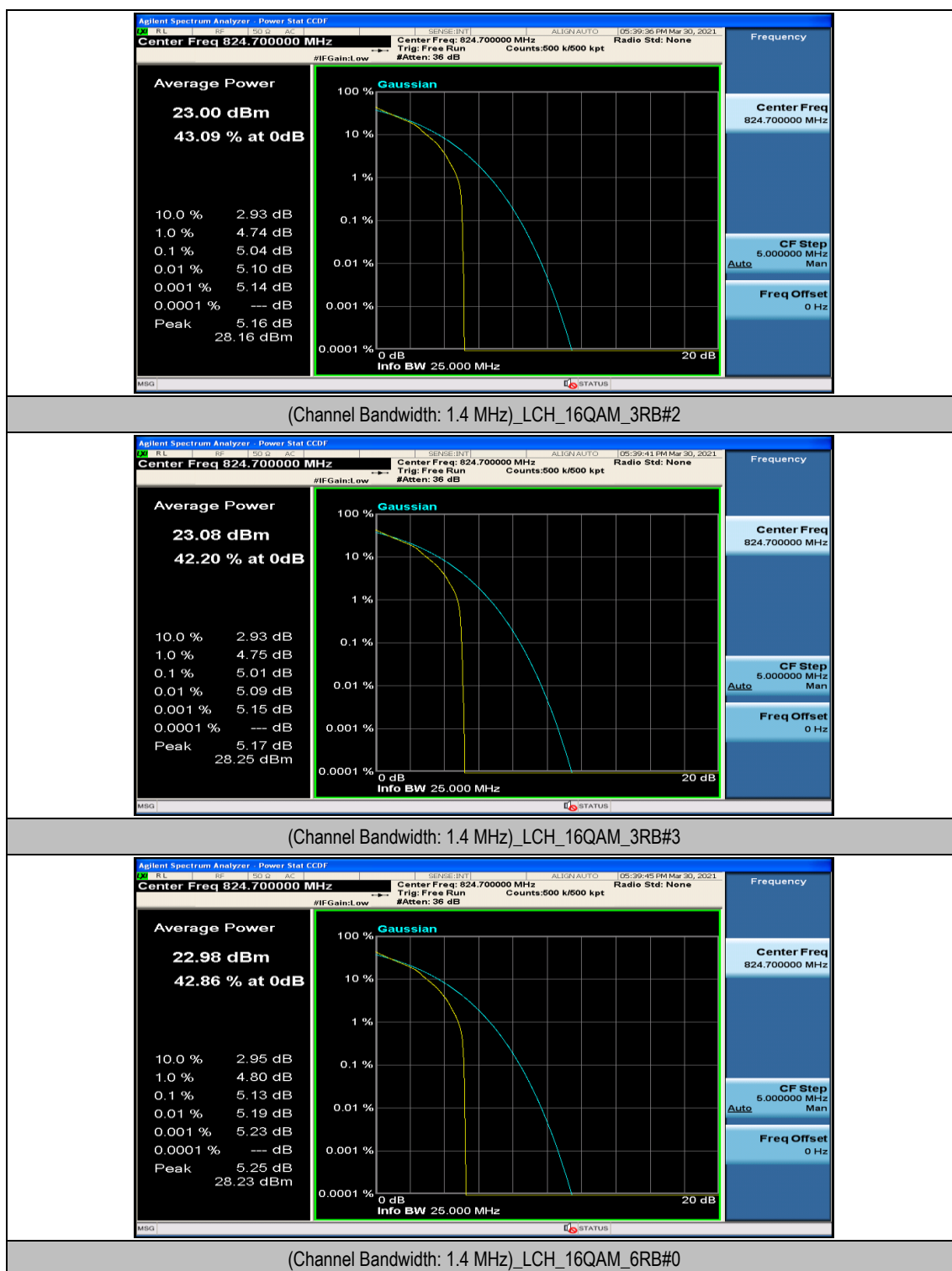
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

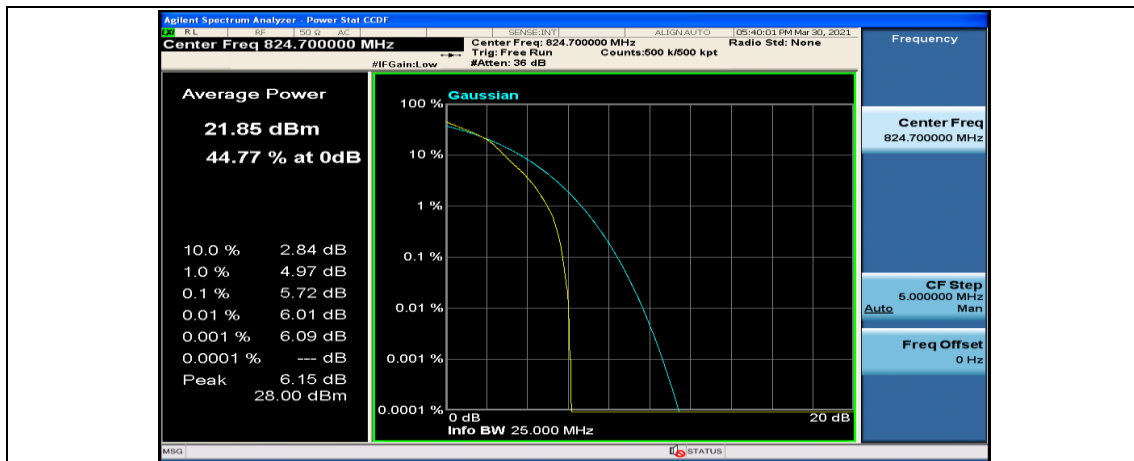


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

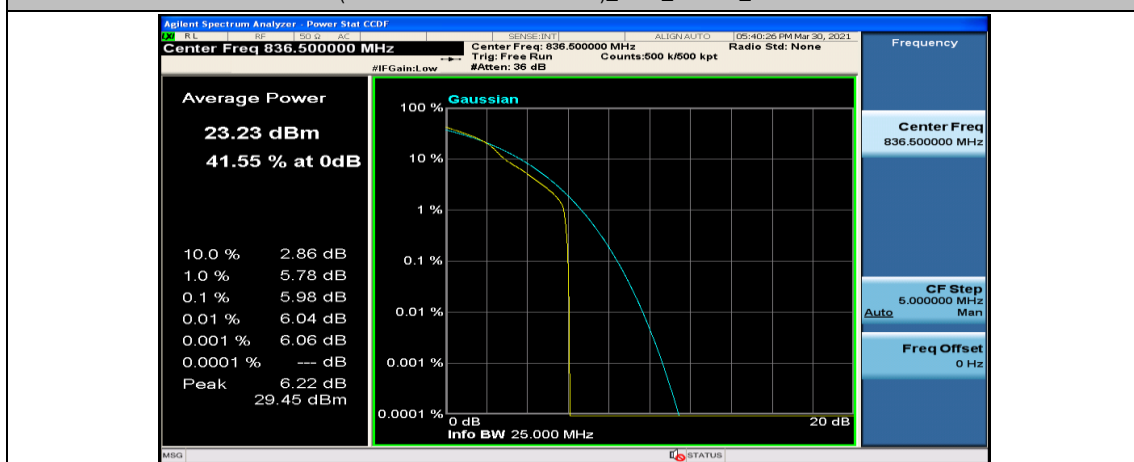


(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

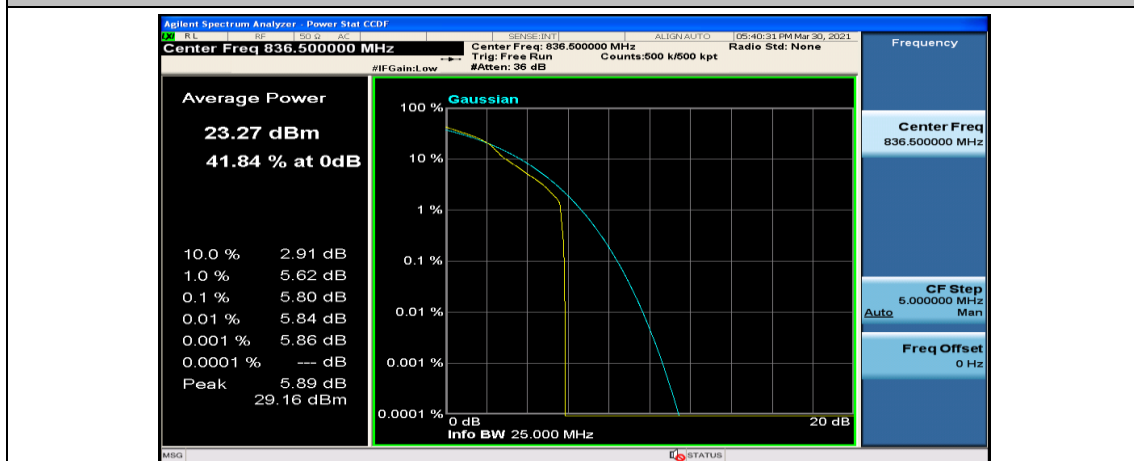




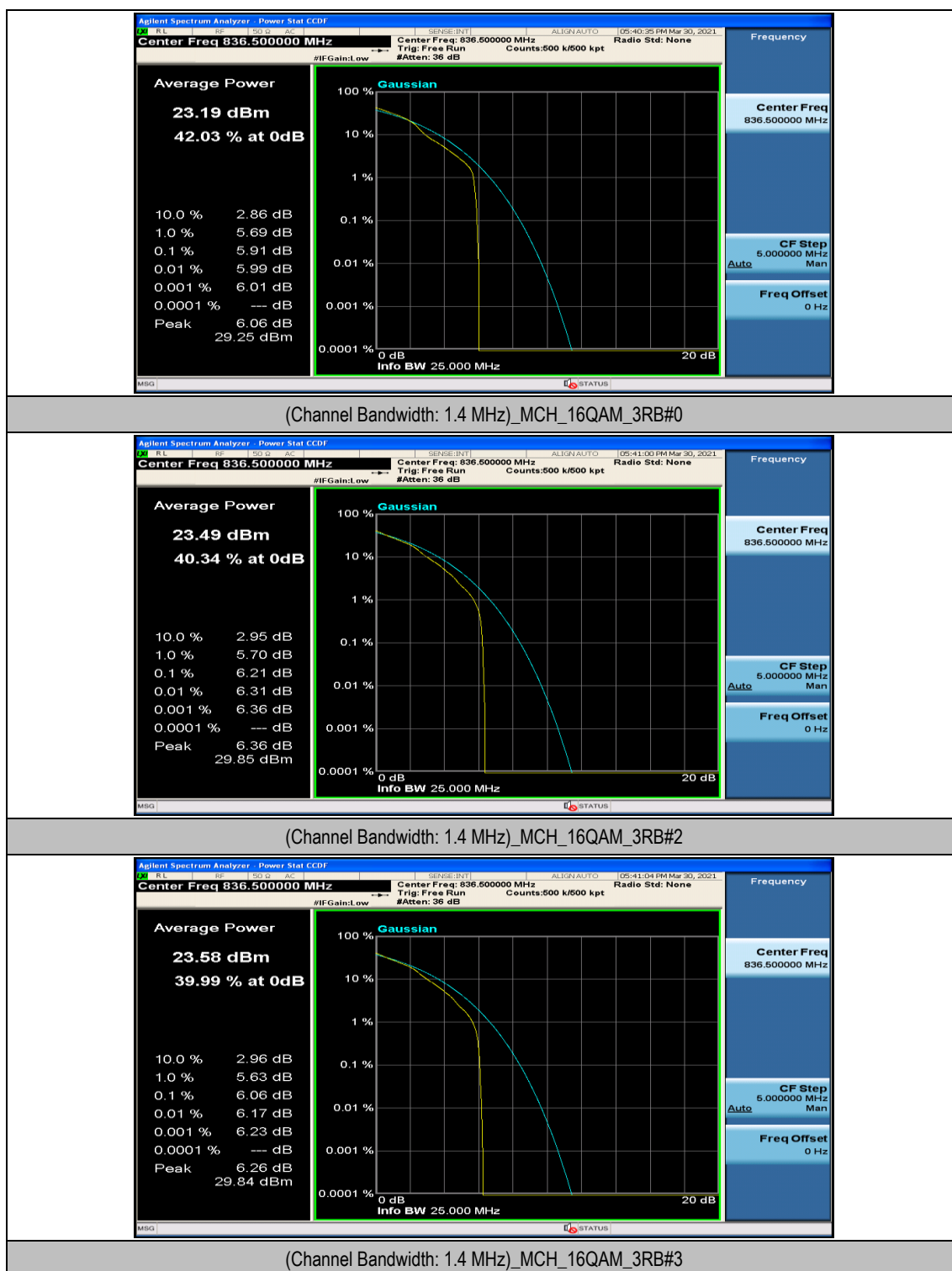
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0

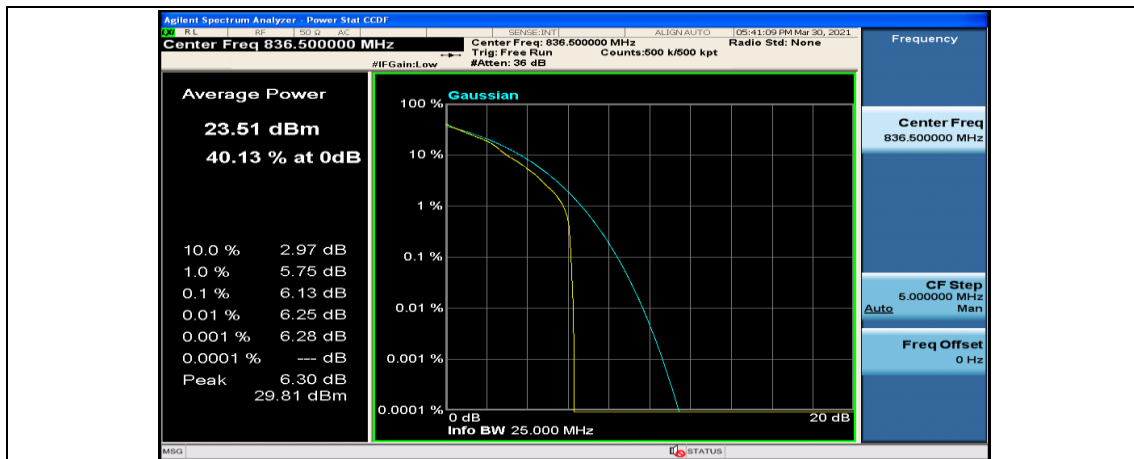


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

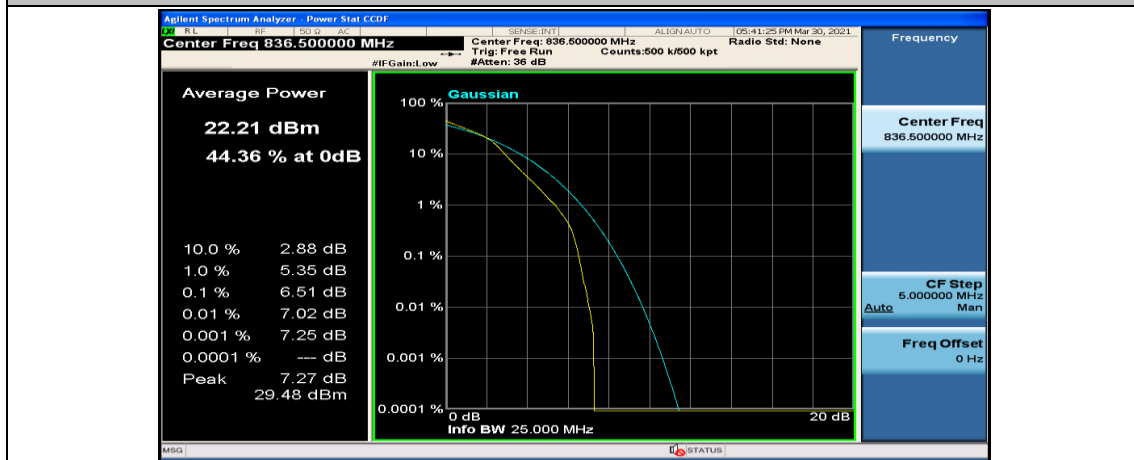


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

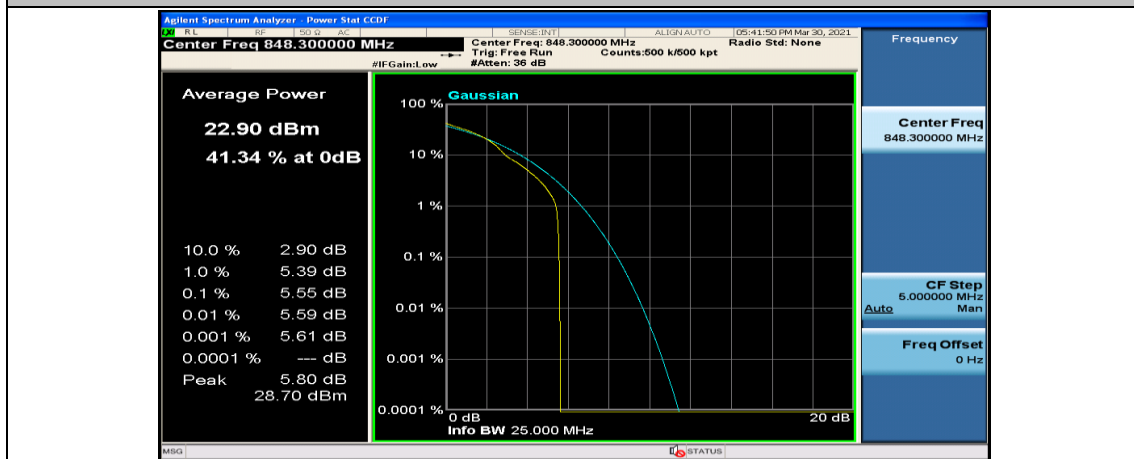




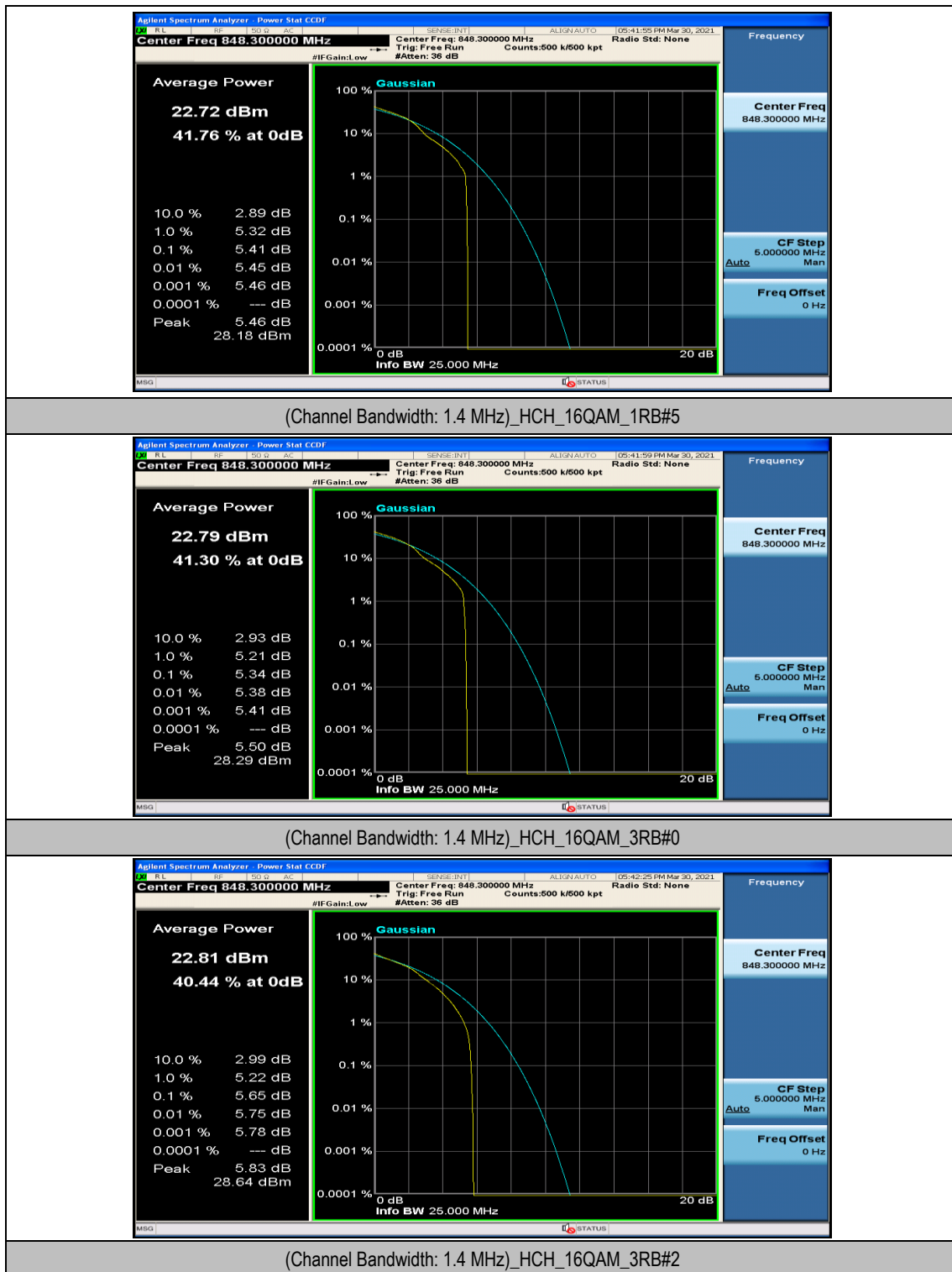
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0

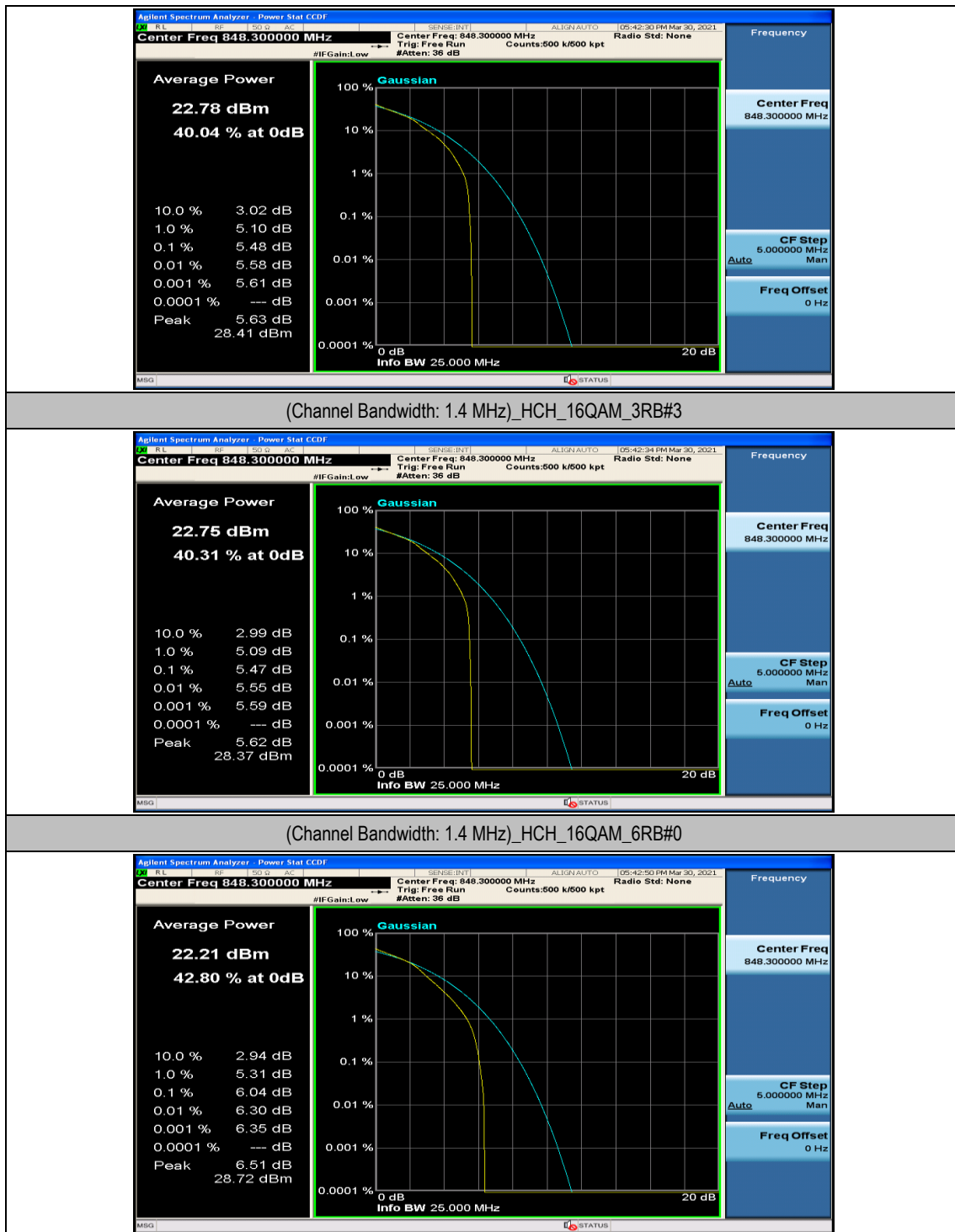


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



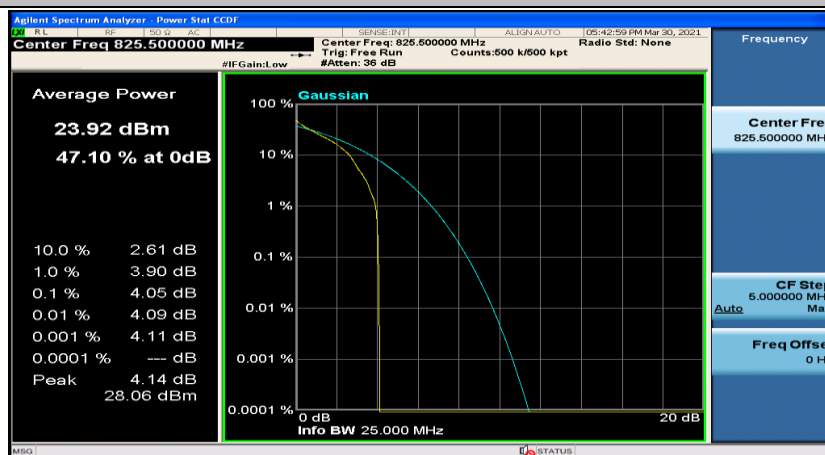
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



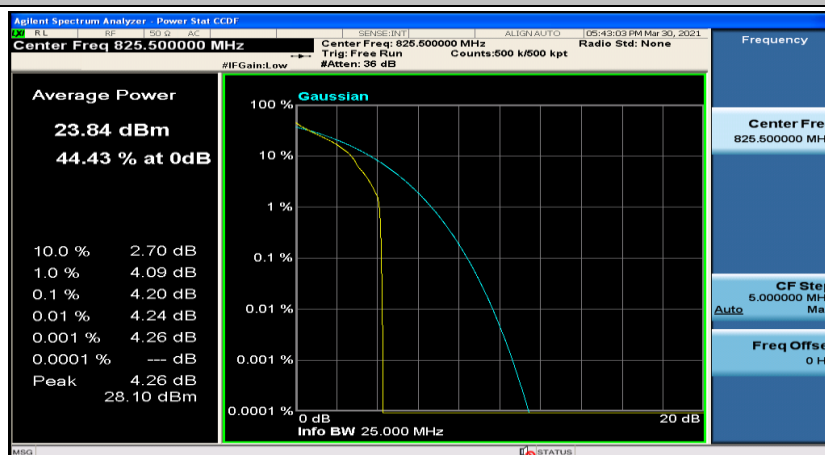


Channel Bandwidth: 3 MHz

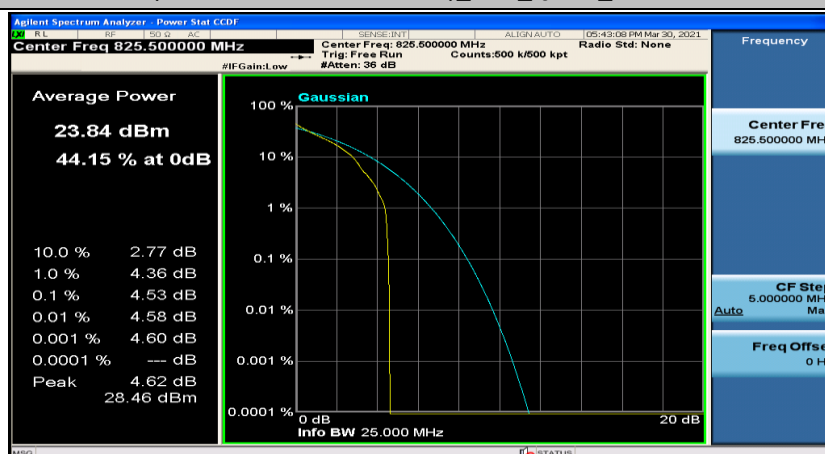
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



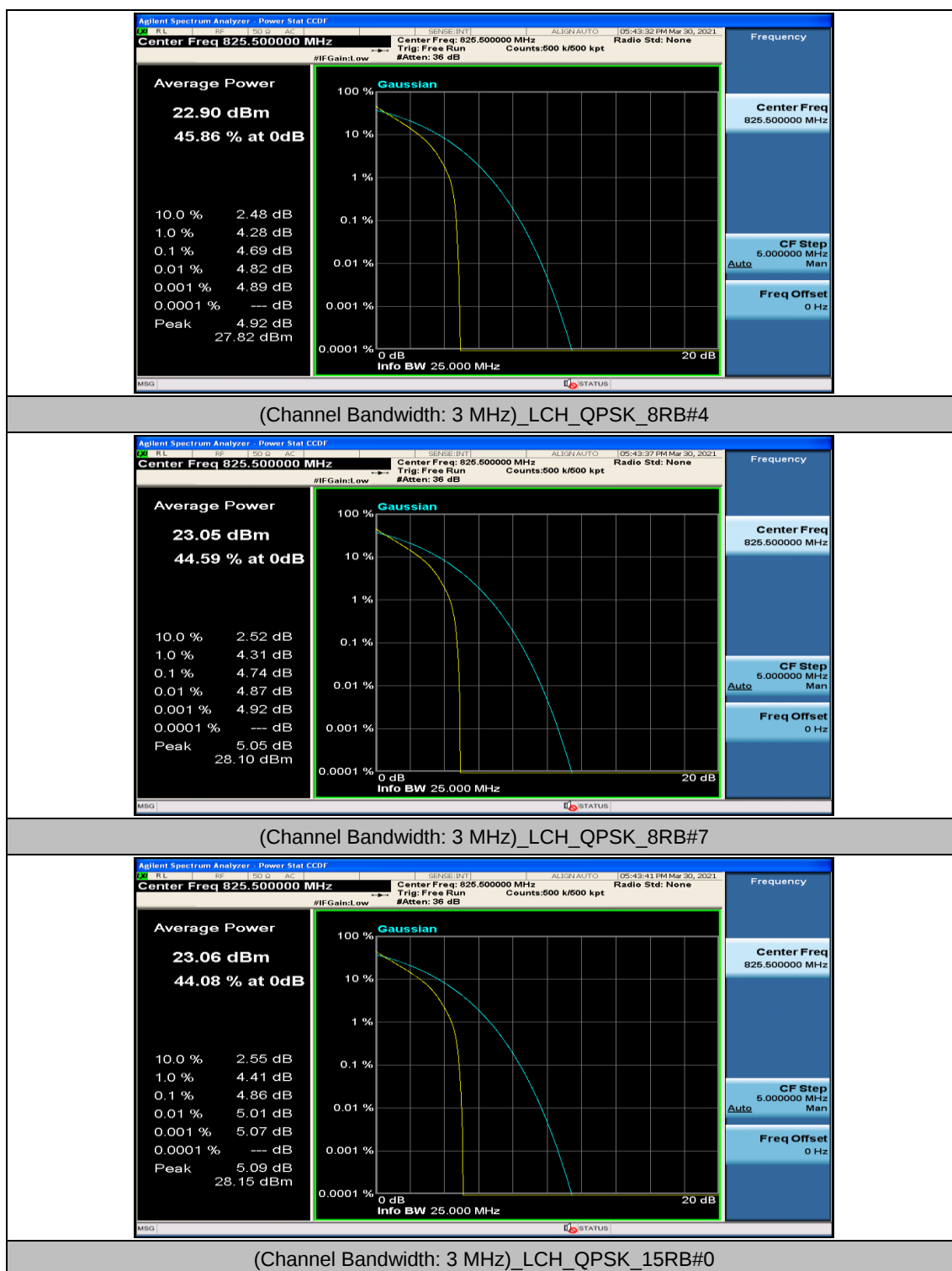
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7

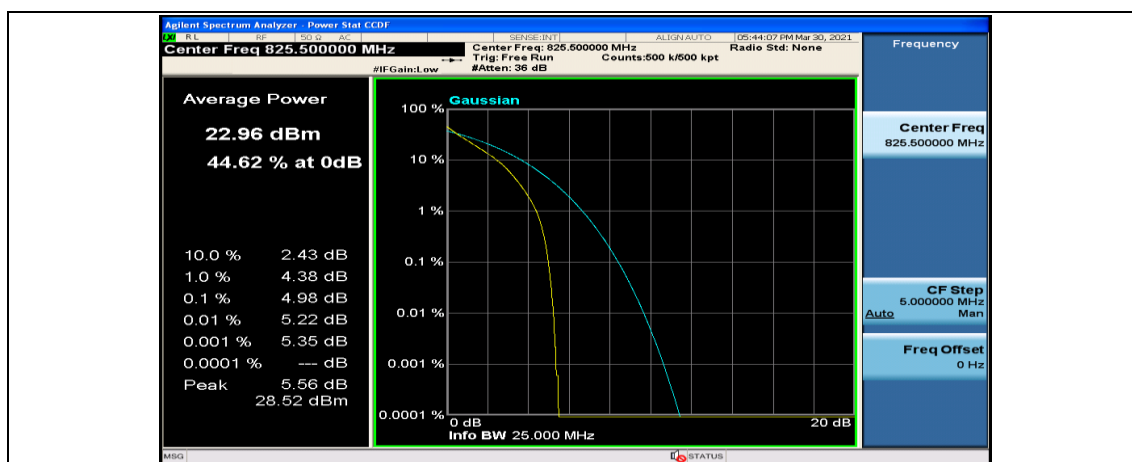


(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14

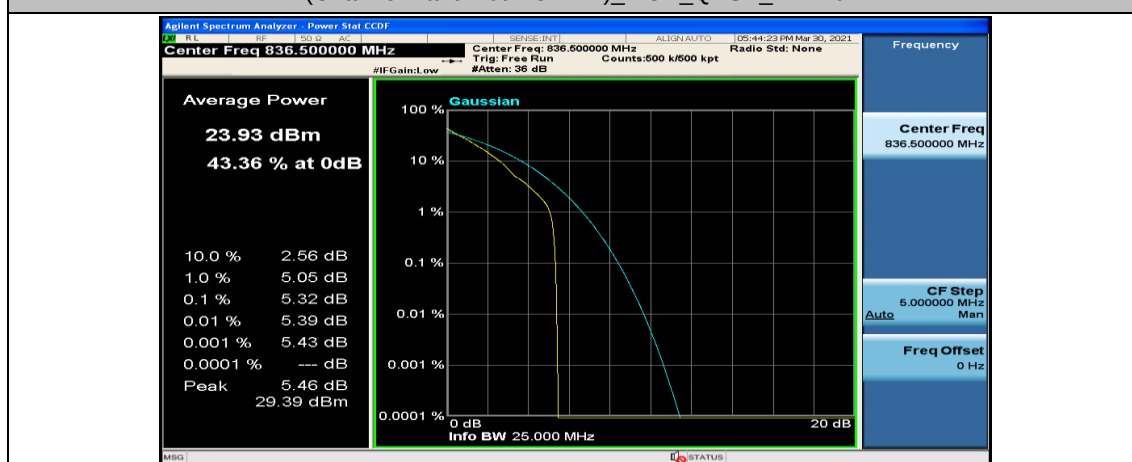


(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0

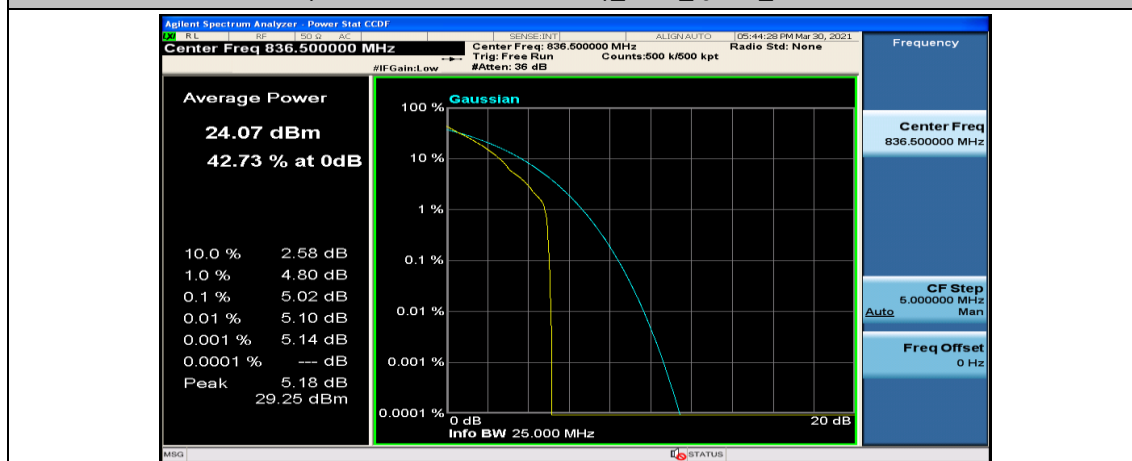




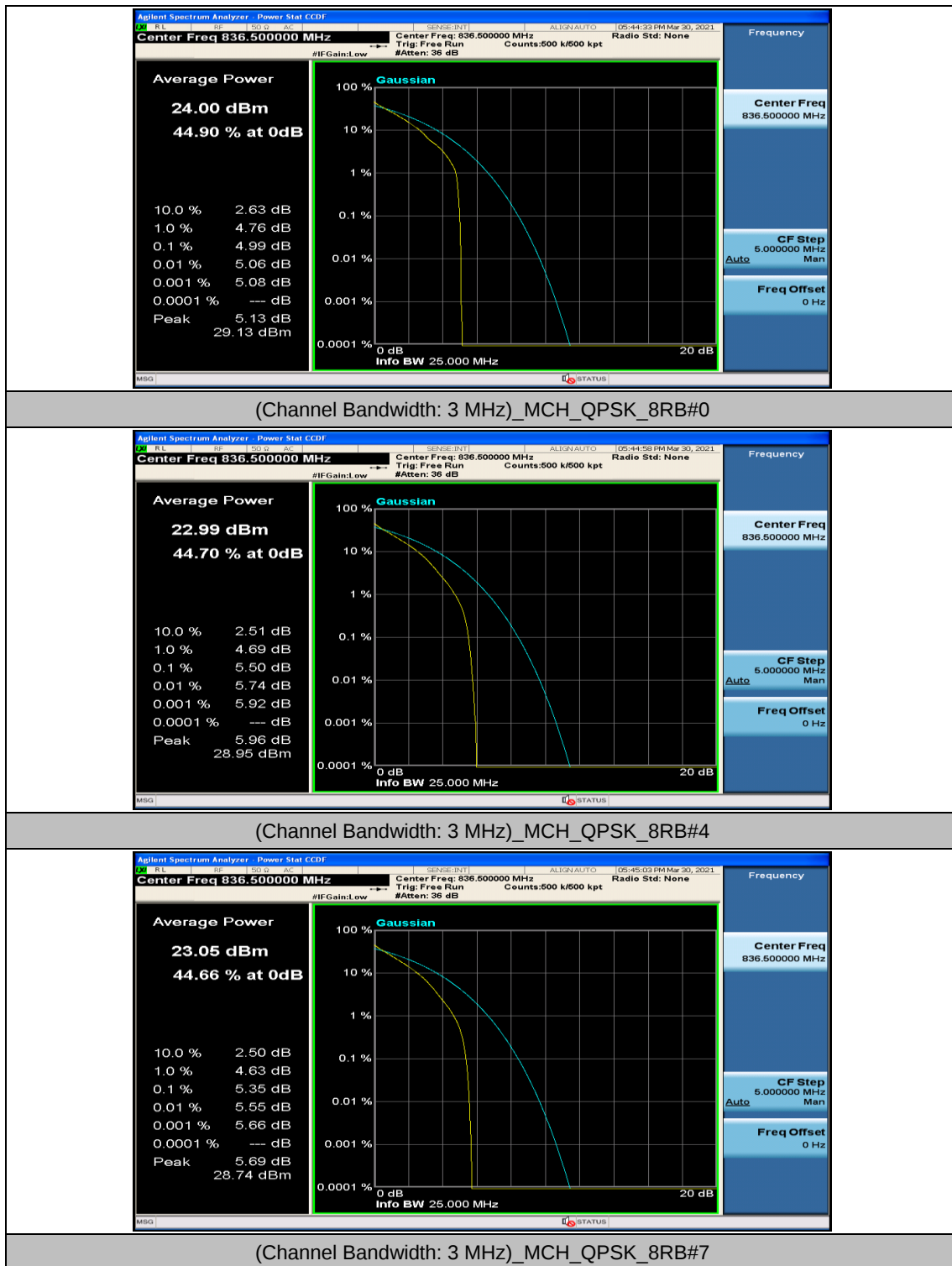
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

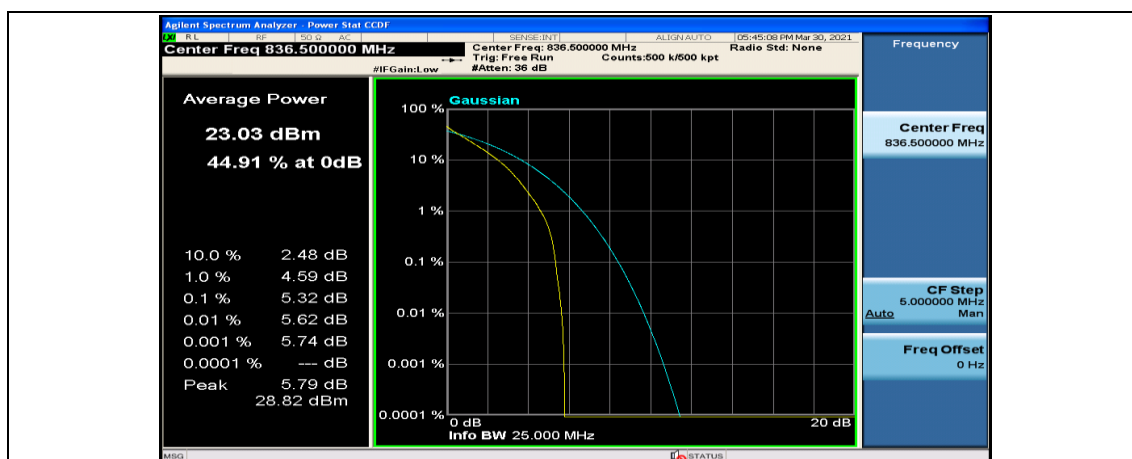


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7

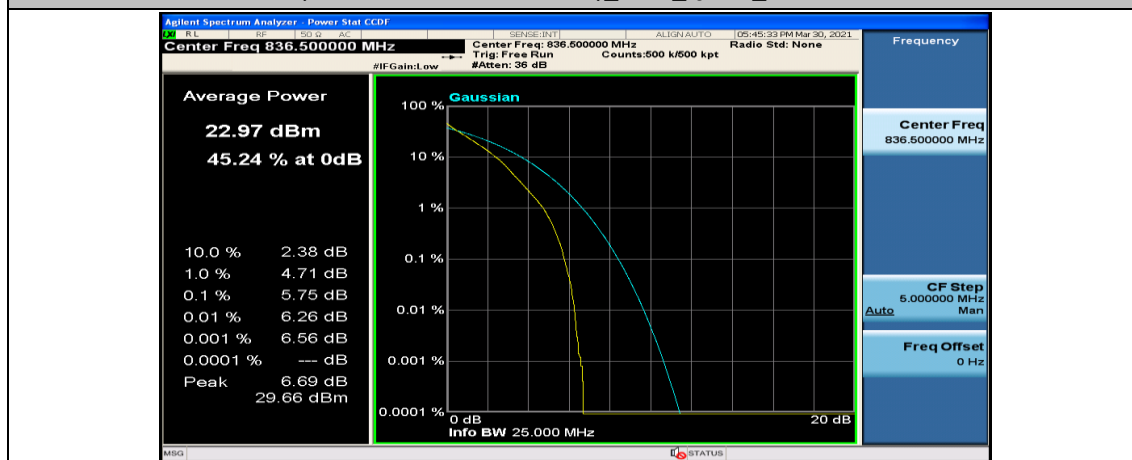


(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

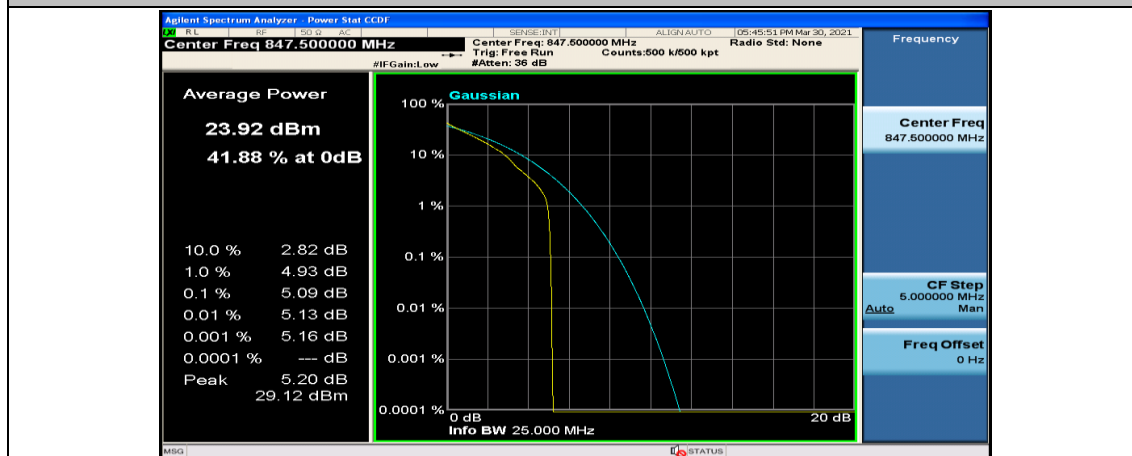




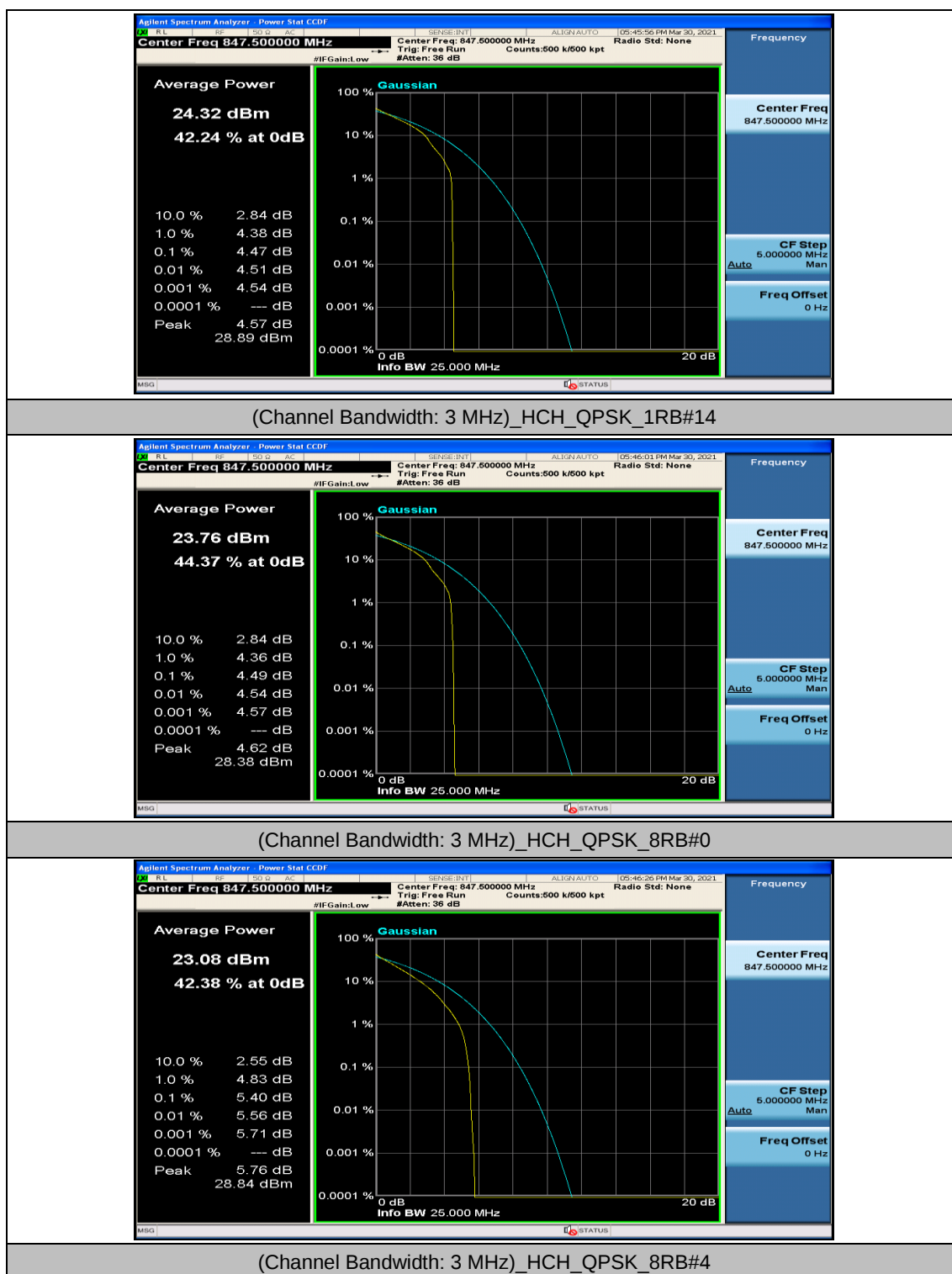
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

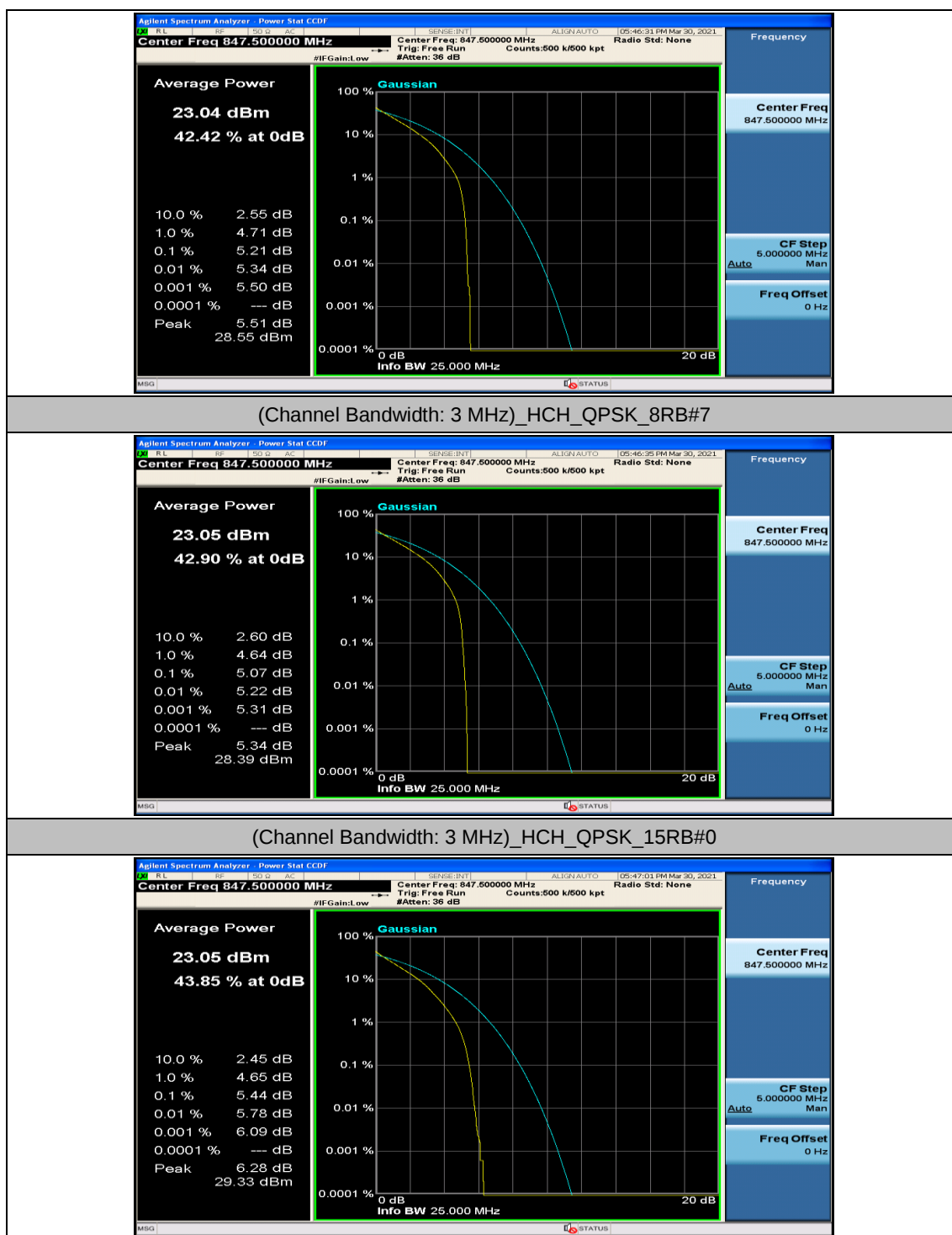


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

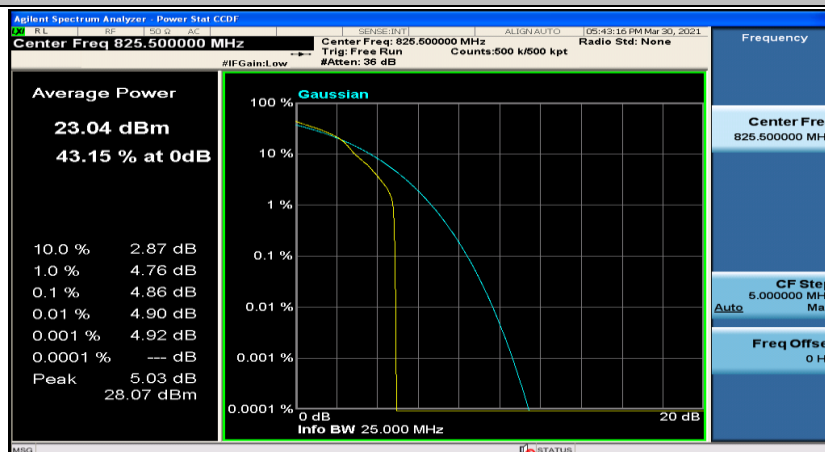


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7

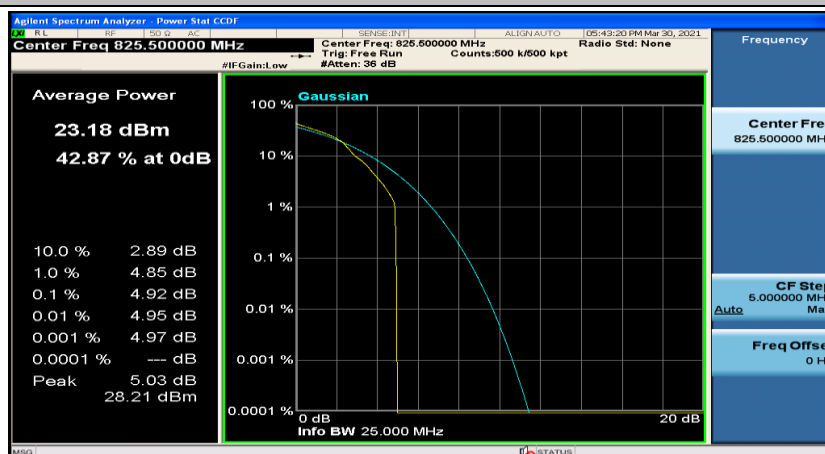




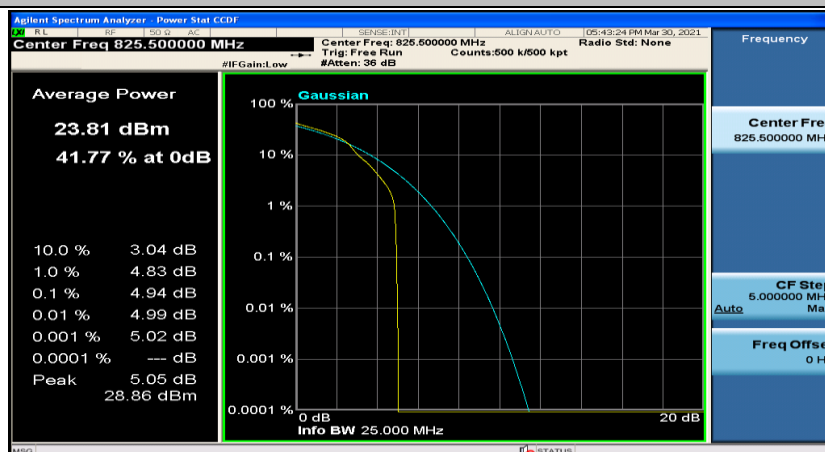
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



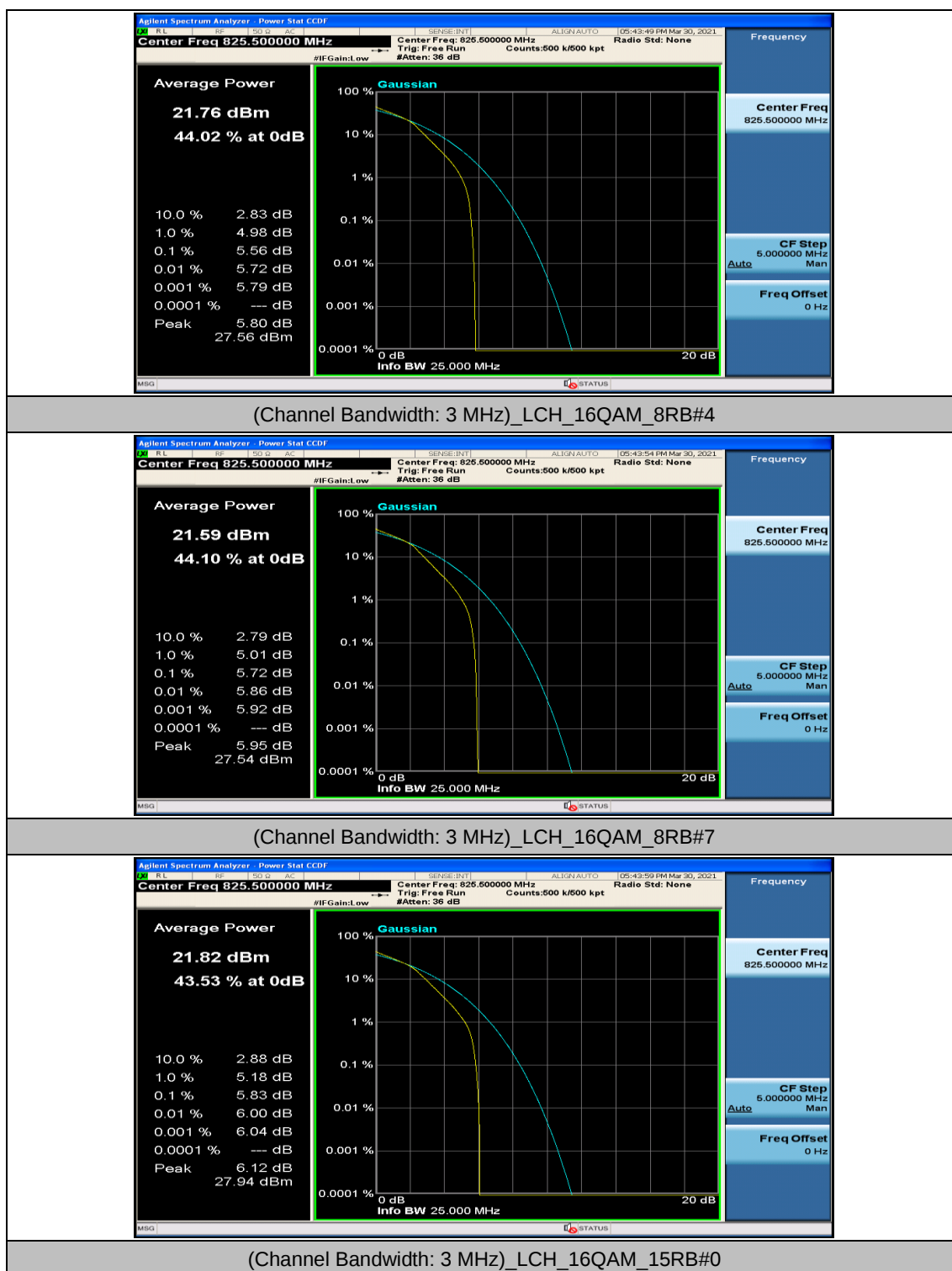
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7

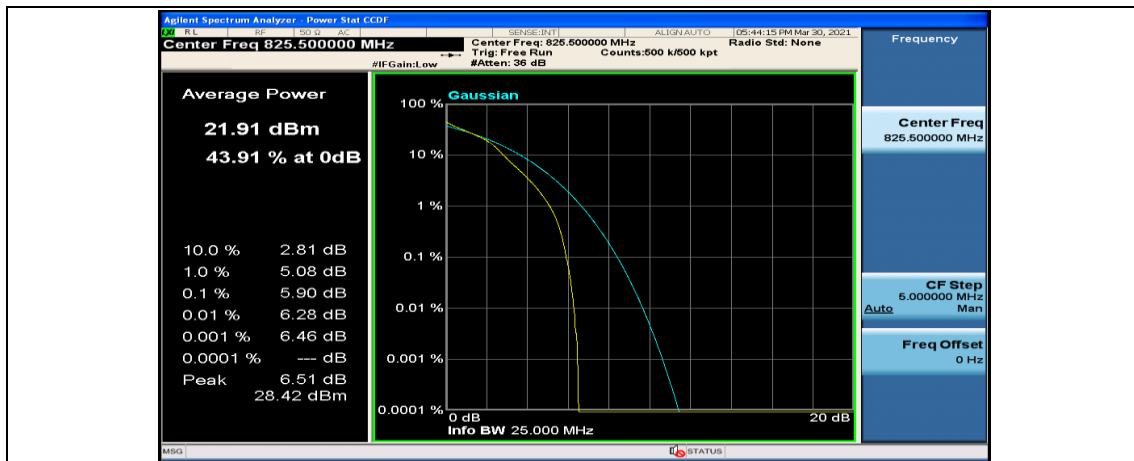


(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14

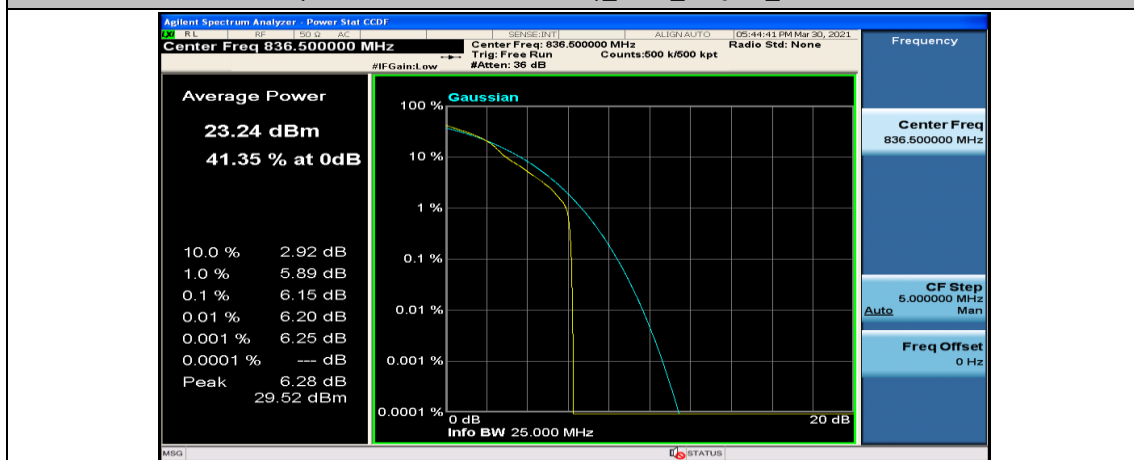


(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0

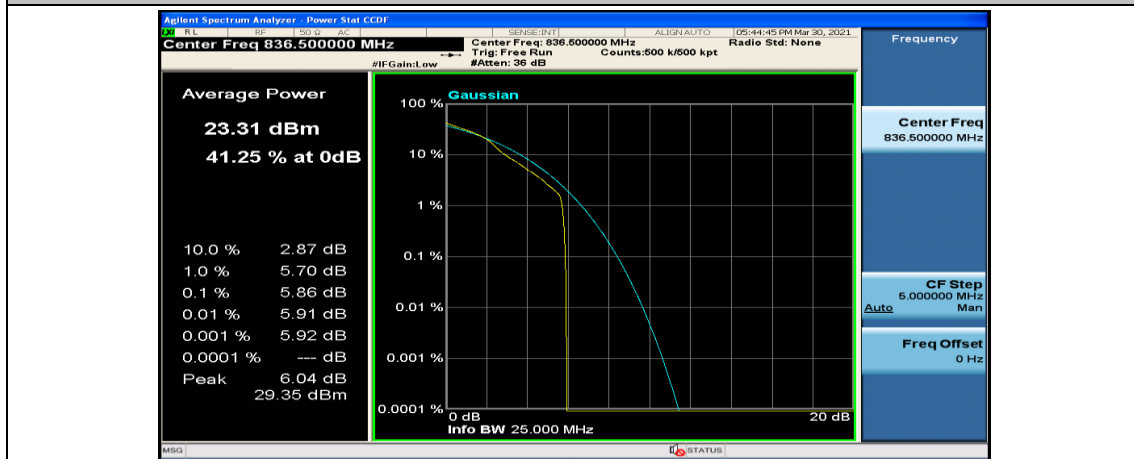




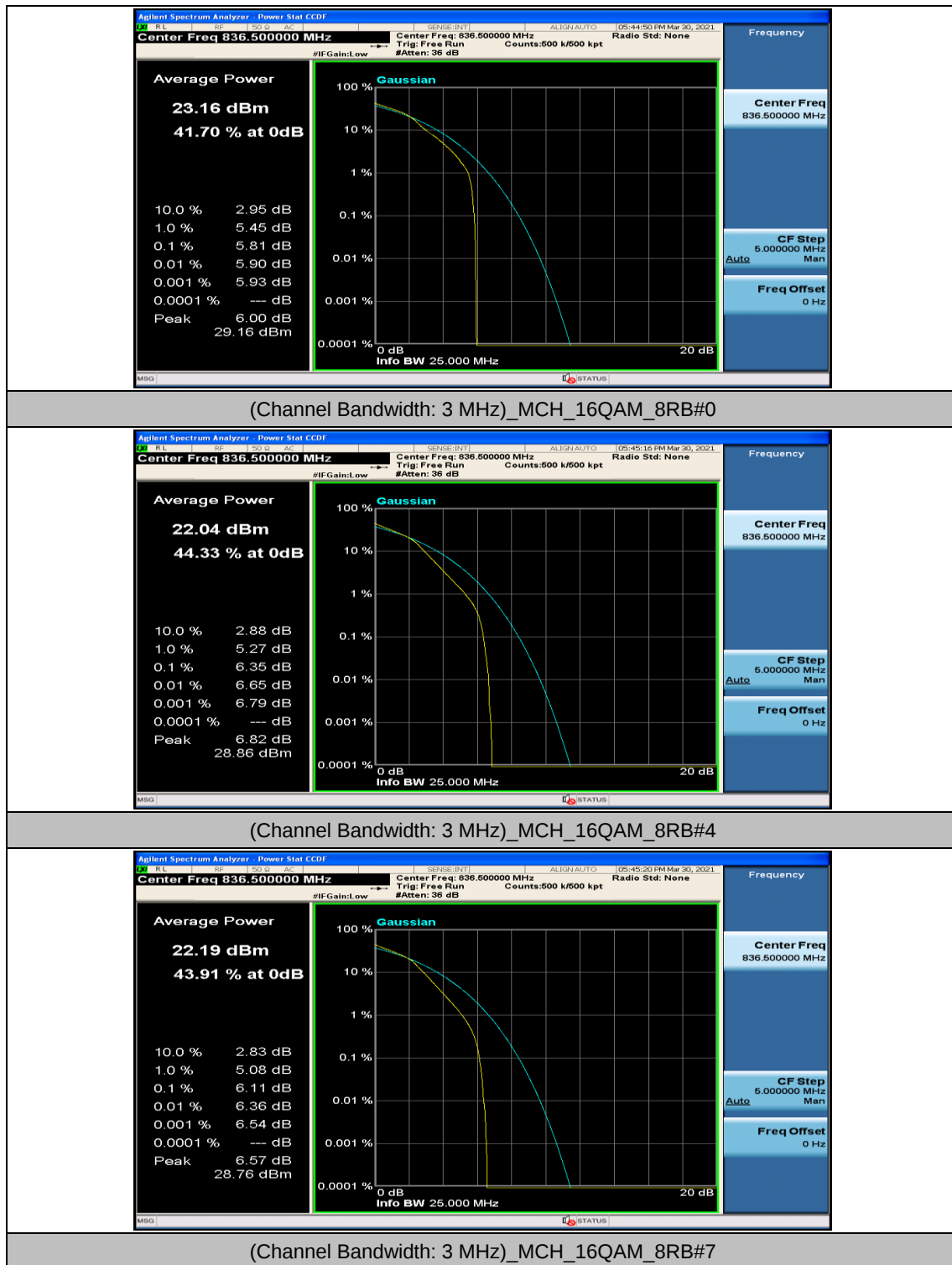
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

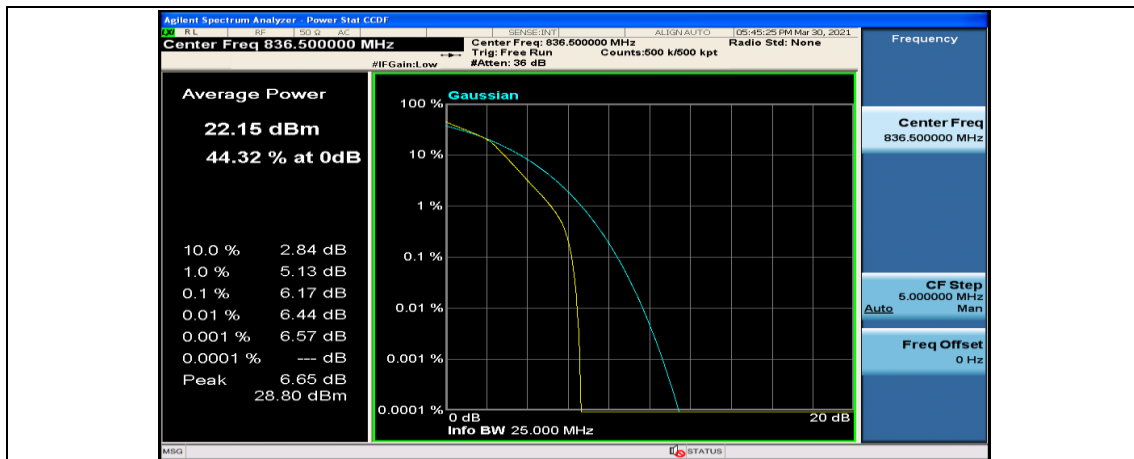


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

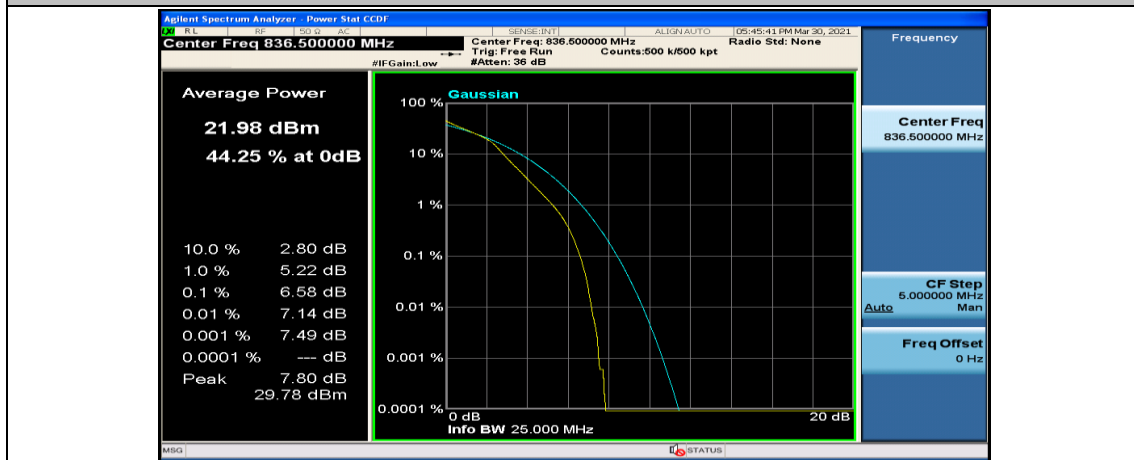


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

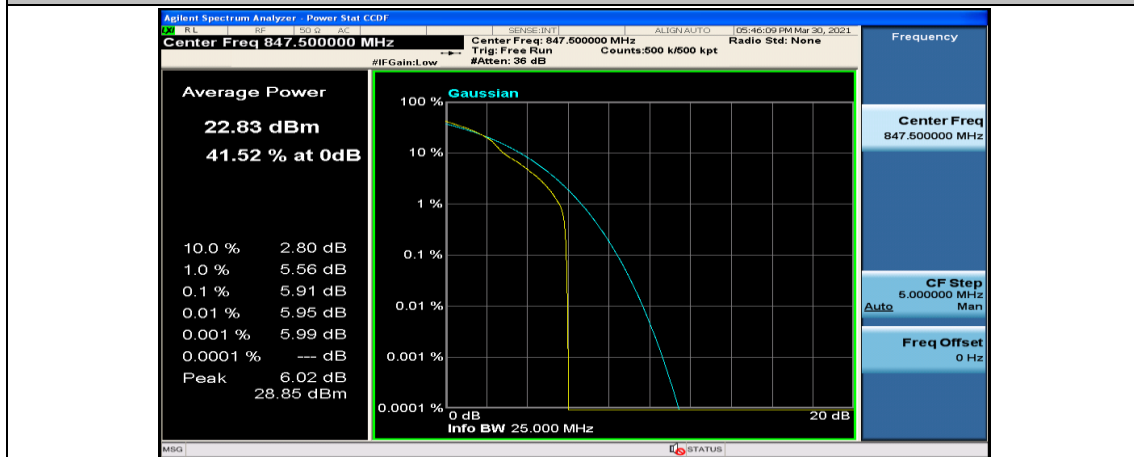




(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7