

Appendix for Band 41(2535-2655MHz)

Product Name: Mobile Phone

Model No: KE5k

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	23.29	PASS
		1	12	23.49	PASS
		1	24	23.25	PASS
		12	0	22.3	PASS
		12	6	22.28	PASS
		12	13	22.27	PASS
		25	0	22.24	PASS
	MCH	1	0	22.97	PASS
		1	12	23.18	PASS
		1	24	22.94	PASS
		12	0	22.29	PASS
		12	6	22.18	PASS
		12	13	22.08	PASS
		25	0	21.96	PASS
	HCH	1	0	23.53	PASS
		1	12	23.85	PASS
		1	24	23.59	PASS
		12	0	22.57	PASS
		12	6	22.6	PASS
		12	13	22.61	PASS
		25	0	22.55	PASS
16QAM	LCH	1	0	22.45	PASS
		1	12	22.66	PASS
		1	24	22.41	PASS
		12	0	21.29	PASS
		12	6	21.28	PASS
		12	13	21.28	PASS
		25	0	21.24	PASS
	MCH	1	0	22.33	PASS
		1	12	22.51	PASS
		1	24	22.3	PASS
		12	0	21.04	PASS
		12	6	21.06	PASS

		12	13	21.06	PASS
		25	0	20.98	PASS
	HCH	1	0	22.63	PASS
		1	12	22.87	PASS
		1	24	22.69	PASS
		12	0	21.53	PASS
		12	6	21.55	PASS
		12	13	21.53	PASS
		25	0	21.5	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.31	PASS
		1	24	23.30	PASS
		1	49	23.25	PASS
		25	0	22.28	PASS
		25	12	22.26	PASS
		25	25	22.33	PASS
		50	0	22.30	PASS
	MCH	1	0	22.99	PASS
		1	24	22.95	PASS
		1	49	22.91	PASS
		25	0	21.94	PASS
		25	12	21.94	PASS
		25	25	21.94	PASS
		50	0	21.93	PASS
	HCH	1	0	23.43	PASS
		1	24	23.56	PASS
		1	49	23.57	PASS
		25	0	22.53	PASS
		25	12	22.54	PASS
		25	25	22.58	PASS
		50	0	22.51	PASS
16QAM	LCH	1	0	22.54	PASS
		1	24	22.55	PASS
		1	49	22.47	PASS
		25	0	21.29	PASS
		25	12	21.28	PASS
		25	25	21.33	PASS
		50	0	21.29	PASS

	MCH	1	0	22.32	PASS
		1	24	22.29	PASS
		1	49	22.24	PASS
		25	0	20.97	PASS
		25	12	20.96	PASS
		25	25	20.95	PASS
		50	0	20.96	PASS
	HCH	1	0	22.65	PASS
		1	24	22.69	PASS
		1	49	22.70	PASS
		25	0	21.49	PASS
		25	12	21.52	PASS
		25	25	21.52	PASS
		50	0	21.47	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.24	PASS
		1	37	23.36	PASS
		1	74	23.12	PASS
		37	0	22.26	PASS
		37	18	22.27	PASS
		37	38	22.25	PASS
		75	0	22.28	PASS
	MCH	1	0	22.94	PASS
		1	37	23.09	PASS
		1	74	22.87	PASS
		37	0	21.97	PASS
		37	18	21.97	PASS
		37	38	21.97	PASS
		75	0	21.95	PASS
	HCH	1	0	23.38	PASS
		1	37	23.69	PASS
		1	74	23.46	PASS
		37	0	22.55	PASS
		37	18	22.53	PASS
		37	38	22.63	PASS
		75	0	22.61	PASS
16QAM	LCH	1	0	22.46	PASS
		1	37	22.61	PASS

		1	74	22.31	PASS
		37	0	21.20	PASS
		37	18	21.19	PASS
		37	38	21.18	PASS
		75	0	21.23	PASS
	MCH	1	0	22.21	PASS
		1	37	22.36	PASS
		1	74	22.11	PASS
		37	0	20.93	PASS
		37	18	20.95	PASS
		37	38	20.91	PASS
		75	0	20.94	PASS
	HCH	1	0	22.58	PASS
		1	37	22.80	PASS
		1	74	22.63	PASS
		37	0	21.43	PASS
		37	18	21.46	PASS
		37	38	21.53	PASS
		75	0	21.50	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.86	PASS
		1	49	23.26	PASS
		1	99	22.96	PASS
		50	0	22.18	PASS
		50	25	22.16	PASS
		50	50	22.14	PASS
		100	0	22.15	PASS
	MCH	1	0	22.89	PASS
		1	49	23.06	PASS
		1	99	22.82	PASS
		50	0	21.94	PASS
		50	25	21.96	PASS
		50	50	21.87	PASS
		100	0	21.90	PASS
	HCH	1	0	22.98	PASS
		1	49	23.27	PASS
		1	99	23.14	PASS
		50	0	22.16	PASS

		50	25	22.20	PASS
		50	50	22.20	PASS
		100	0	22.17	PASS
16QAM	LCH	1	0	22.38	PASS
		1	49	22.51	PASS
		1	99	22.21	PASS
		50	0	21.17	PASS
		50	25	21.15	PASS
		50	50	21.13	PASS
		100	0	21.16	PASS
	MCH	1	0	22.24	PASS
		1	49	22.34	PASS
		1	99	22.10	PASS
		50	0	20.94	PASS
		50	25	20.98	PASS
		50	50	20.93	PASS
		100	0	20.91	PASS
	HCH	1	0	22.16	PASS
		1	49	22.29	PASS
		1	99	22.15	PASS
		50	0	21.14	PASS
		50	25	21.21	PASS
		50	50	21.16	PASS
		100	0	21.19	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	10.98	<13	PASS
		1	12	5.91	<13	PASS
		1	24	10.4	<13	PASS
		12	0	7.77	<13	PASS
		12	6	8.5	<13	PASS
		12	13	7.81	<13	PASS
		25	0	11	<13	PASS
	MCH	1	0	7.98	<13	PASS
		1	12	6.83	<13	PASS
		1	24	8.77	<13	PASS
		12	0	7.47	<13	PASS
		12	6	8.14	<13	PASS
		12	13	8.23	<13	PASS
		25	0	10.49	<13	PASS
	HCH	1	0	8.63	<13	PASS
		1	12	6.39	<13	PASS
		1	24	6.11	<13	PASS
		12	0	6.85	<13	PASS
		12	6	8.79	<13	PASS
		12	13	8.49	<13	PASS
		25	0	6.83	<13	PASS
16QAM	LCH	1	0	8.35	<13	PASS
		1	12	9.28	<13	PASS
		1	24	8.05	<13	PASS
		12	0	9.06	<13	PASS
		12	6	10.25	<13	PASS
		12	13	9.55	<13	PASS
		25	0	9.44	<13	PASS
	MCH	1	0	8.68	<13	PASS
		1	12	7.99	<13	PASS
		1	24	11.23	<13	PASS
		12	0	10.13	<13	PASS

		12	6	8.97	<13	PASS
		12	13	8.73	<13	PASS
		25	0	11.42	<13	PASS
	HCH	1	0	7.42	<13	PASS
		1	12	9.52	<13	PASS
		1	24	6.45	<13	PASS
		12	0	9.92	<13	PASS
		12	6	10.61	<13	PASS
		12	13	8.5	<13	PASS
		25	0	8.98	<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	7.64	<13	PASS
		1	24	8.77	<13	PASS
		1	49	9.59	<13	PASS
		25	0	9.34	<13	PASS
		25	12	8.87	<13	PASS
		25	25	9.63	<13	PASS
		50	0	7.61	<13	PASS
	MCH	1	0	9.22	<13	PASS
		1	24	9.75	<13	PASS
		1	49	6.75	<13	PASS
		25	0	9.3	<13	PASS
		25	12	9.91	<13	PASS
		25	25	10	<13	PASS
		50	0	10.38	<13	PASS
	HCH	1	0	9.18	<13	PASS
		1	24	6.36	<13	PASS
		1	49	9.44	<13	PASS
		25	0	7.66	<13	PASS
		25	12	9.3	<13	PASS
		25	25	7.78	<13	PASS
		50	0	9.36	<13	PASS
16QAM	LCH	1	0	7.83	<13	PASS
		1	24	8.53	<13	PASS
		1	49	8.46	<13	PASS
		25	0	9.65	<13	PASS
		25	12	11.22	<13	PASS

		25	25	9.73	<13	PASS
		50	0	8.29	<13	PASS
	MCH	1	0	10.99	<13	PASS
		1	24	9.04	<13	PASS
		1	49	9.88	<13	PASS
		25	0	11.76	<13	PASS
		25	12	8.55	<13	PASS
		25	25	8.66	<13	PASS
		50	0	8.52	<13	PASS
	HCH	1	0	5.89	<13	PASS
		1	24	7.26	<13	PASS
		1	49	6.57	<13	PASS
		25	0	8.63	<13	PASS
		25	12	7.96	<13	PASS
		25	25	10.16	<13	PASS
		50	0	7.75	<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	11.62	<13	PASS
		1	37	9.57	<13	PASS
		1	74	8.55	<13	PASS
		37	0	8.57	<13	PASS
		37	18	9.36	<13	PASS
		37	38	9.31	<13	PASS
		75	0	9.69	<13	PASS
	MCH	1	0	9.9	<13	PASS
		1	37	9.38	<13	PASS
		1	74	7.5	<13	PASS
		37	0	8.75	<13	PASS
		37	18	9.16	<13	PASS
		37	38	9.12	<13	PASS
		75	0	8.07	<13	PASS
	HCH	1	0	9	<13	PASS
		1	37	5.18	<13	PASS
		1	74	6.43	<13	PASS
		37	0	6.1	<13	PASS
		37	18	8.43	<13	PASS
		37	38	7.38	<13	PASS

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		75	0	7.85	<13	PASS
16QAM	LCH	1	0	11.68	<13	PASS
		1	37	9.06	<13	PASS
		1	74	7.1	<13	PASS
		37	0	9.47	<13	PASS
		37	18	9.57	<13	PASS
		37	38	10.98	<13	PASS
		75	0	8.61	<13	PASS
	MCH	1	0	8.04	<13	PASS
		1	37	9.55	<13	PASS
		1	74	8.22	<13	PASS
		37	0	9.74	<13	PASS
		37	18	8.76	<13	PASS
		37	38	8.51	<13	PASS
		75	0	8.88	<13	PASS
	HCH	1	0	9.58	<13	PASS
		1	37	6.77	<13	PASS
		1	74	7.05	<13	PASS
		37	0	11.52	<13	PASS
		37	18	9.11	<13	PASS
		37	38	8.32	<13	PASS
		75	0	7.63	<13	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	10.14	<13	PASS
		1	49	8.06	<13	PASS
		1	99	8.01	<13	PASS
		50	0	8.67	<13	PASS
		50	25	8.13	<13	PASS
		50	50	8.29	<13	PASS
		100	0	8.43	<13	PASS
	MCH	1	0	9.96	<13	PASS
		1	49	7.48	<13	PASS
		1	99	8.88	<13	PASS
		50	0	8.25	<13	PASS
		50	25	9.85	<13	PASS
		50	50	9	<13	PASS
		100	0	12.73	<13	PASS

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	HCH	1	0	8.47	<13	PASS
		1	49	8.44	<13	PASS
		1	99	8.72	<13	PASS
		50	0	7.17	<13	PASS
		50	25	10.03	<13	PASS
		50	50	6.65	<13	PASS
		100	0	8.85	<13	PASS
16QAM	LCH	1	0	8.61	<13	PASS
		1	49	8.17	<13	PASS
		1	99	12.65	<13	PASS
		50	0	10.28	<13	PASS
		50	25	8.47	<13	PASS
		50	50	10.22	<13	PASS
		100	0	9.1	<13	PASS
	MCH	1	0	8.96	<13	PASS
		1	49	11.39	<13	PASS
		1	99	10.1	<13	PASS
		50	0	10.97	<13	PASS
		50	25	9.87	<13	PASS
		50	50	11.63	<13	PASS
		100	0	8.7	<13	PASS
	HCH	1	0	8.92	<13	PASS
		1	49	9.78	<13	PASS
		1	99	10.71	<13	PASS
		50	0	8.59	<13	PASS
		50	25	6.94	<13	PASS
		50	50	8.37	<13	PASS
		100	0	10.68	<13	PASS

Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



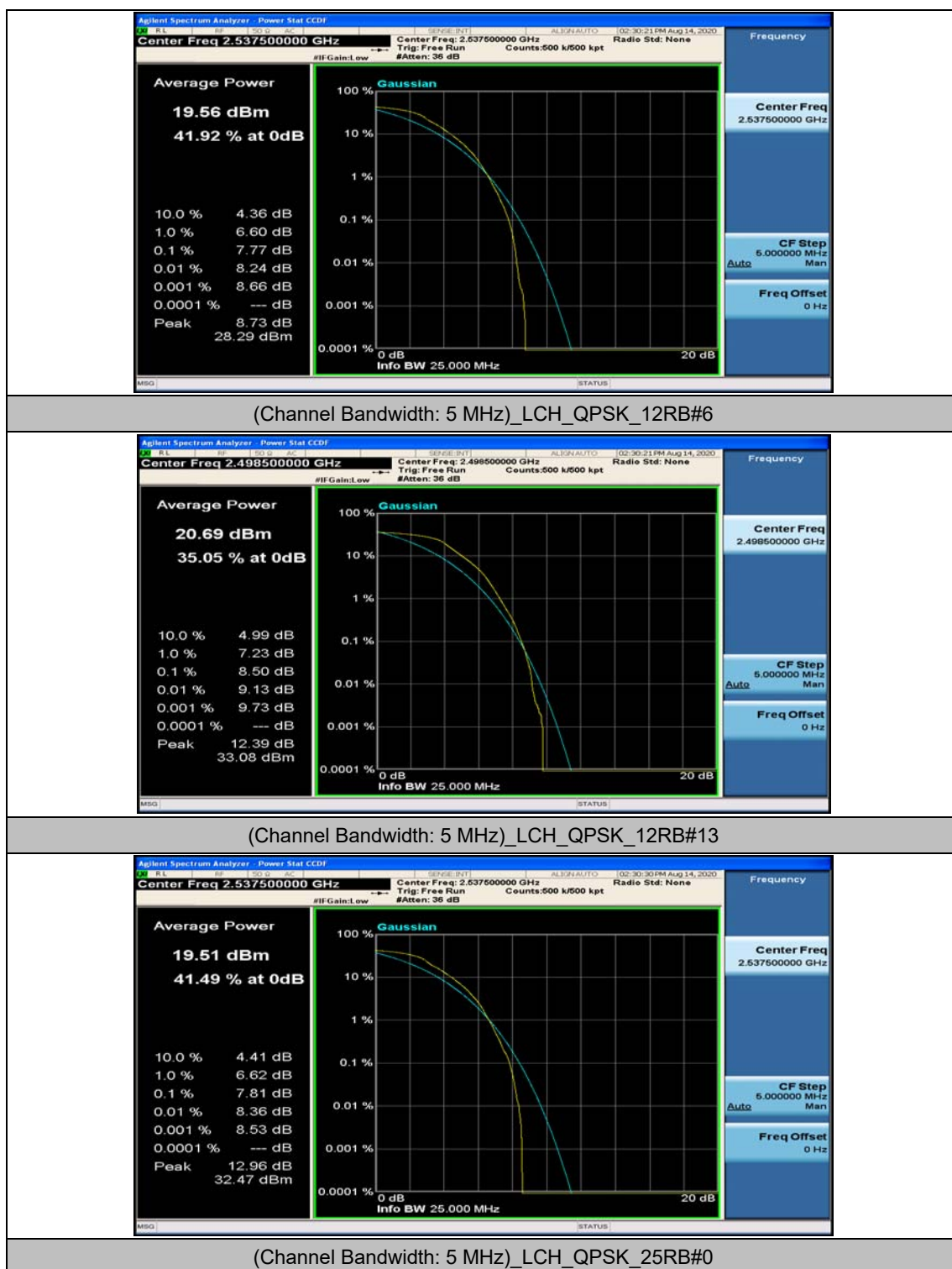
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0





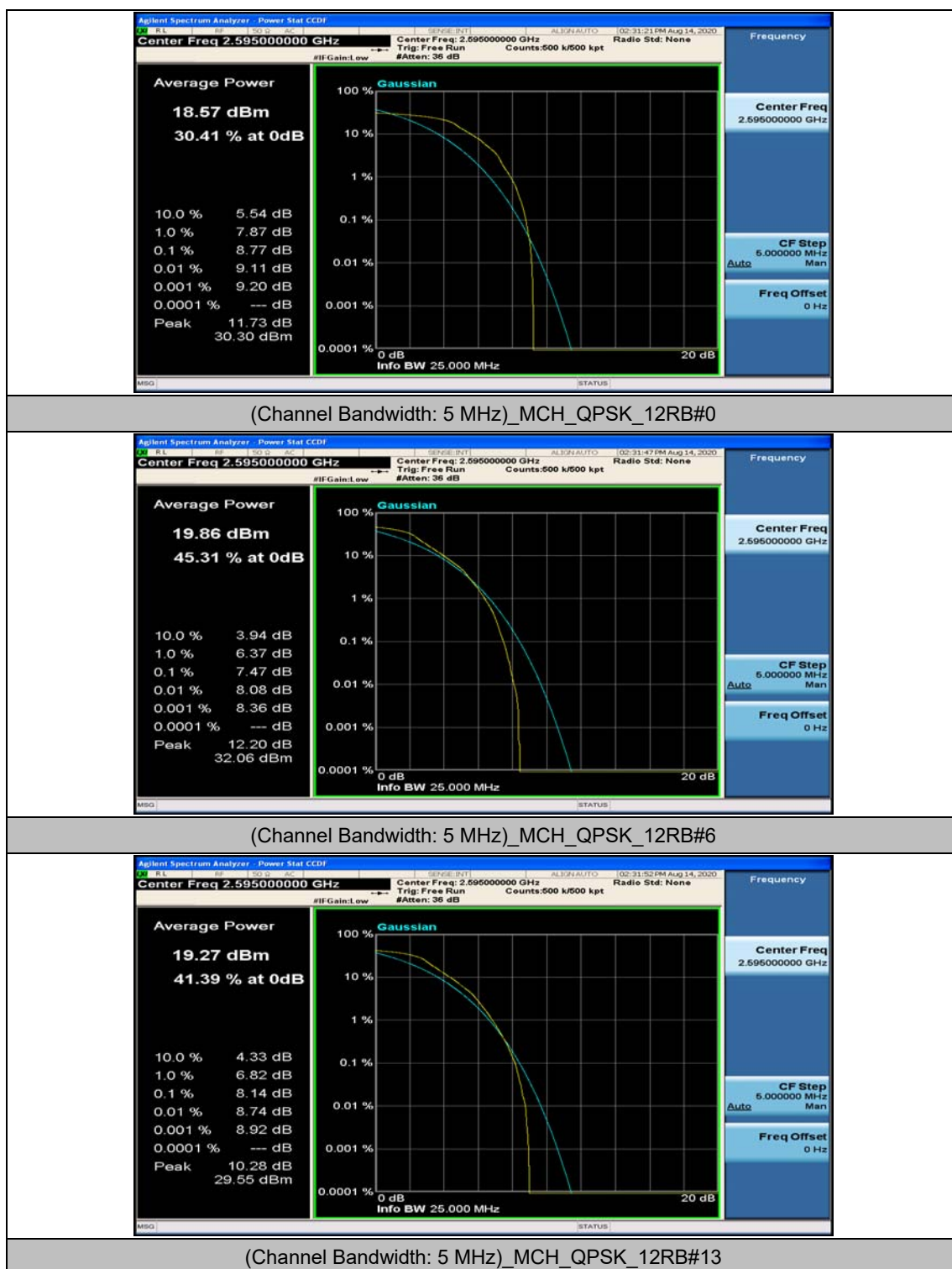
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

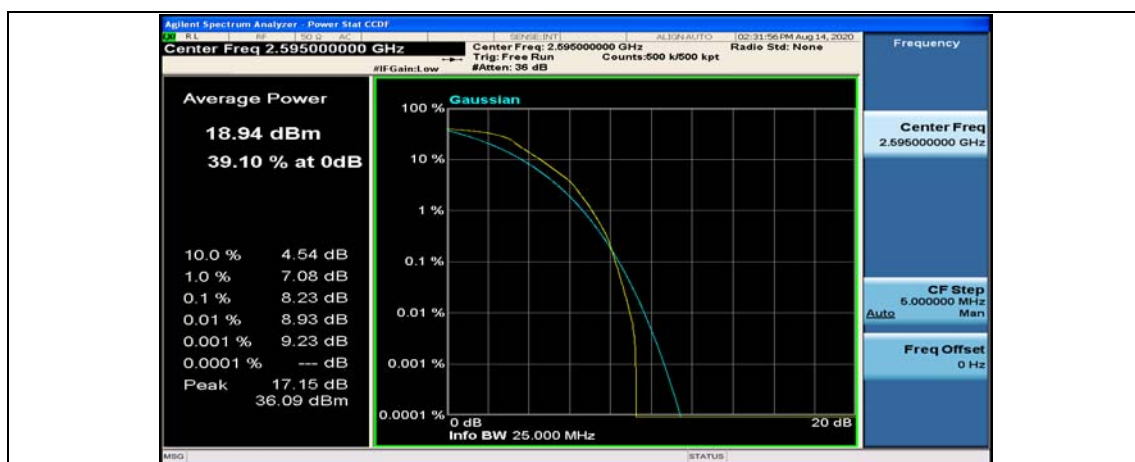


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

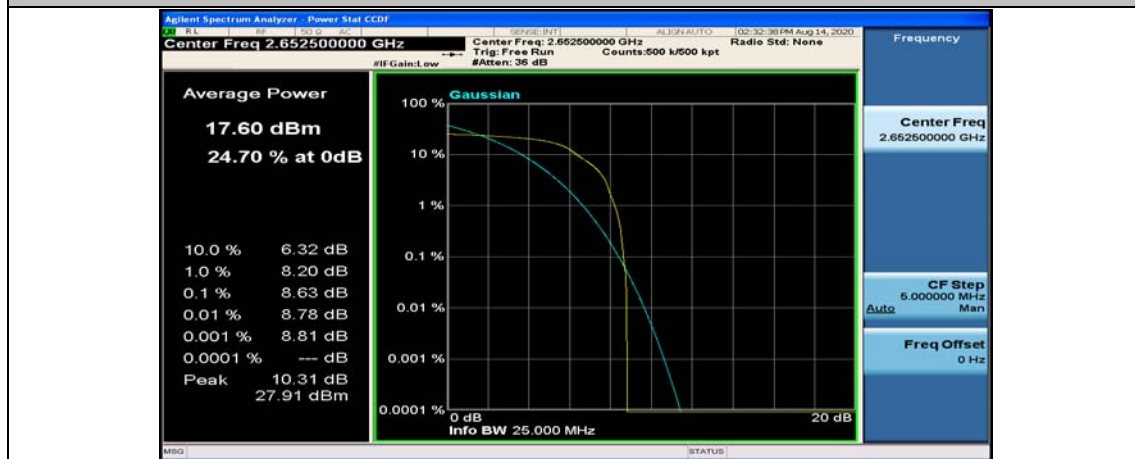




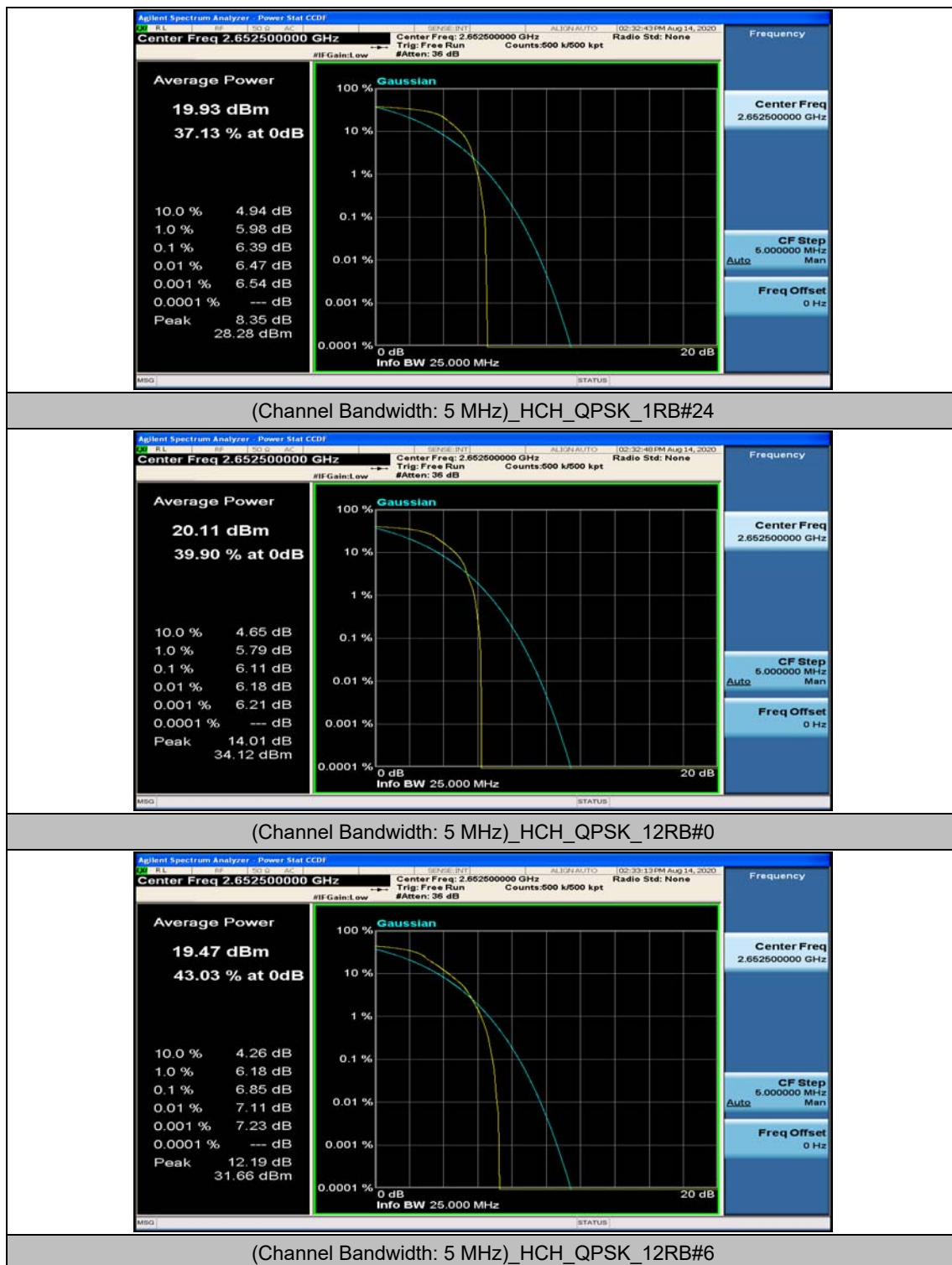
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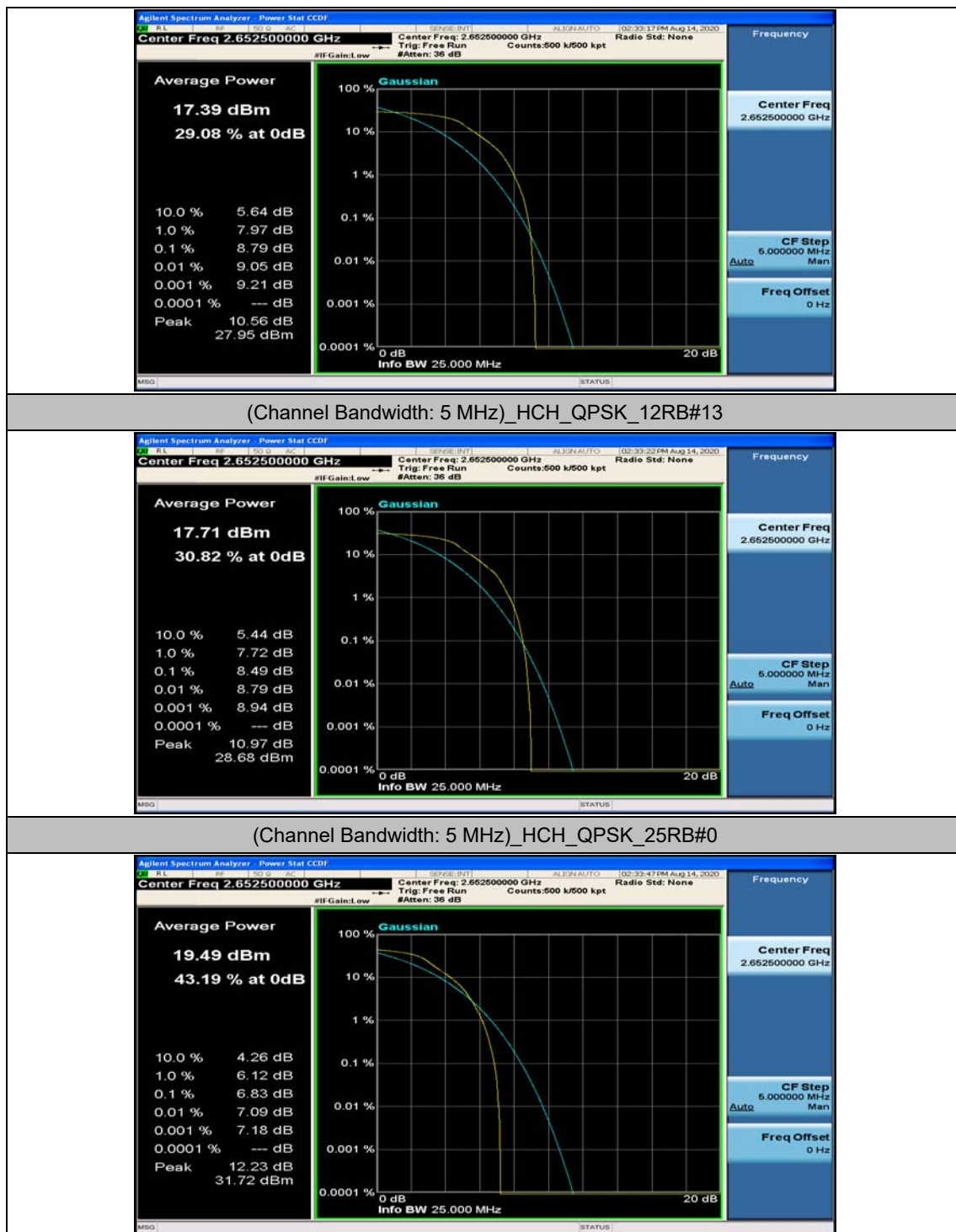


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12





(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



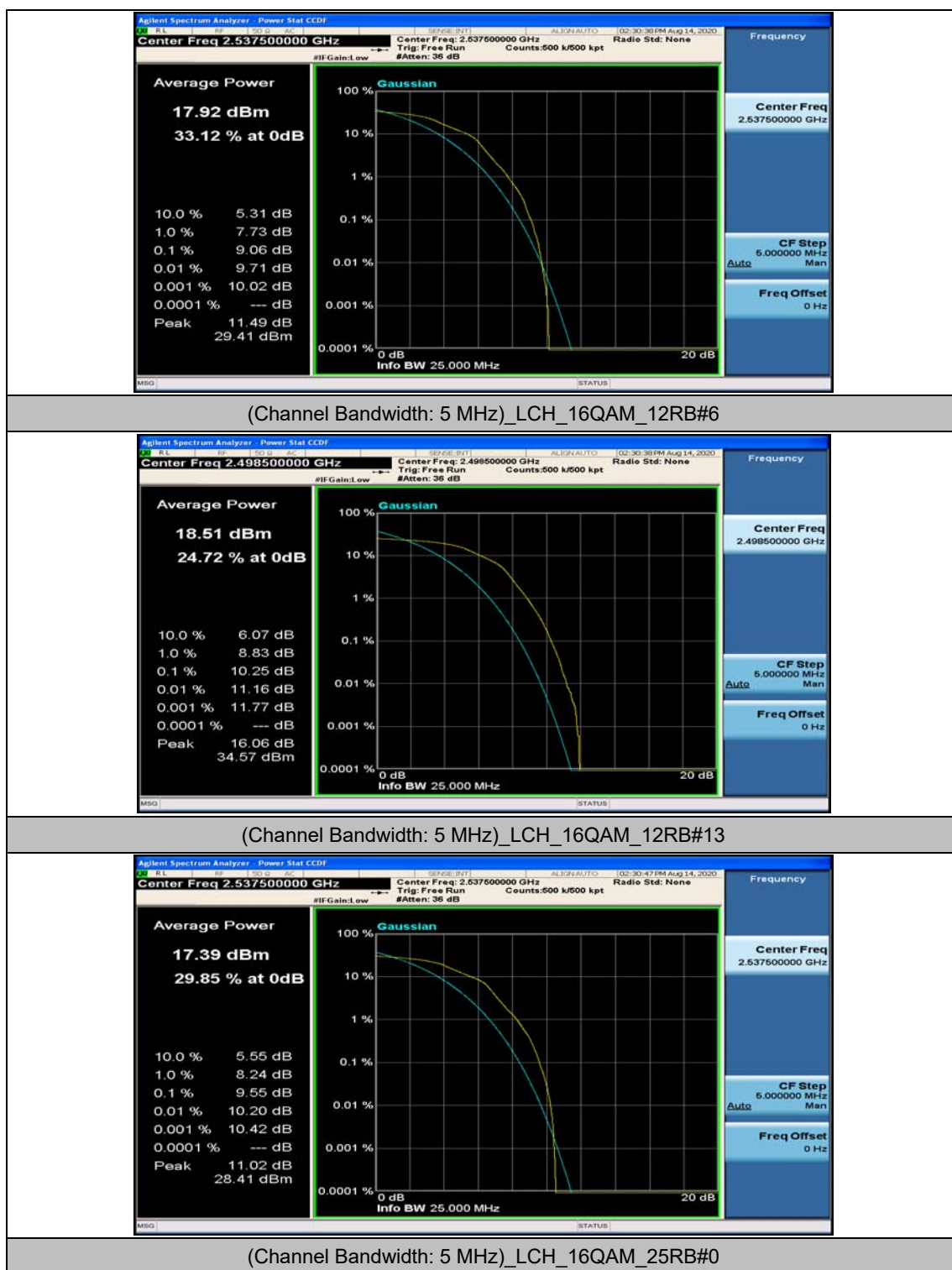
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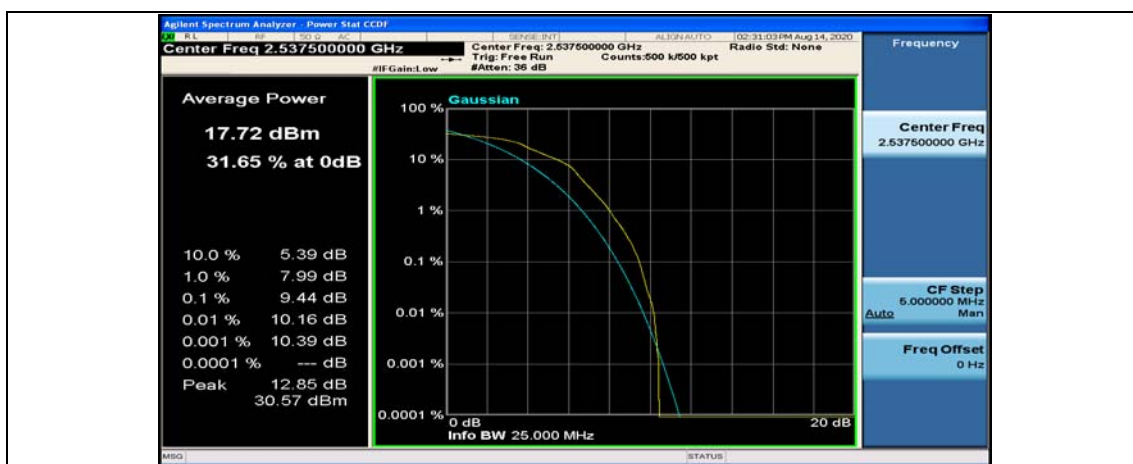


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

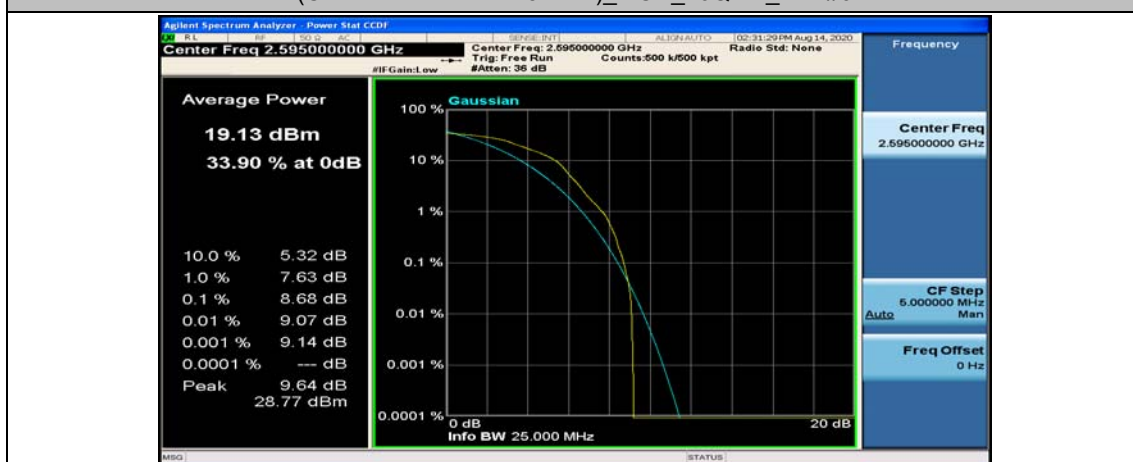


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0





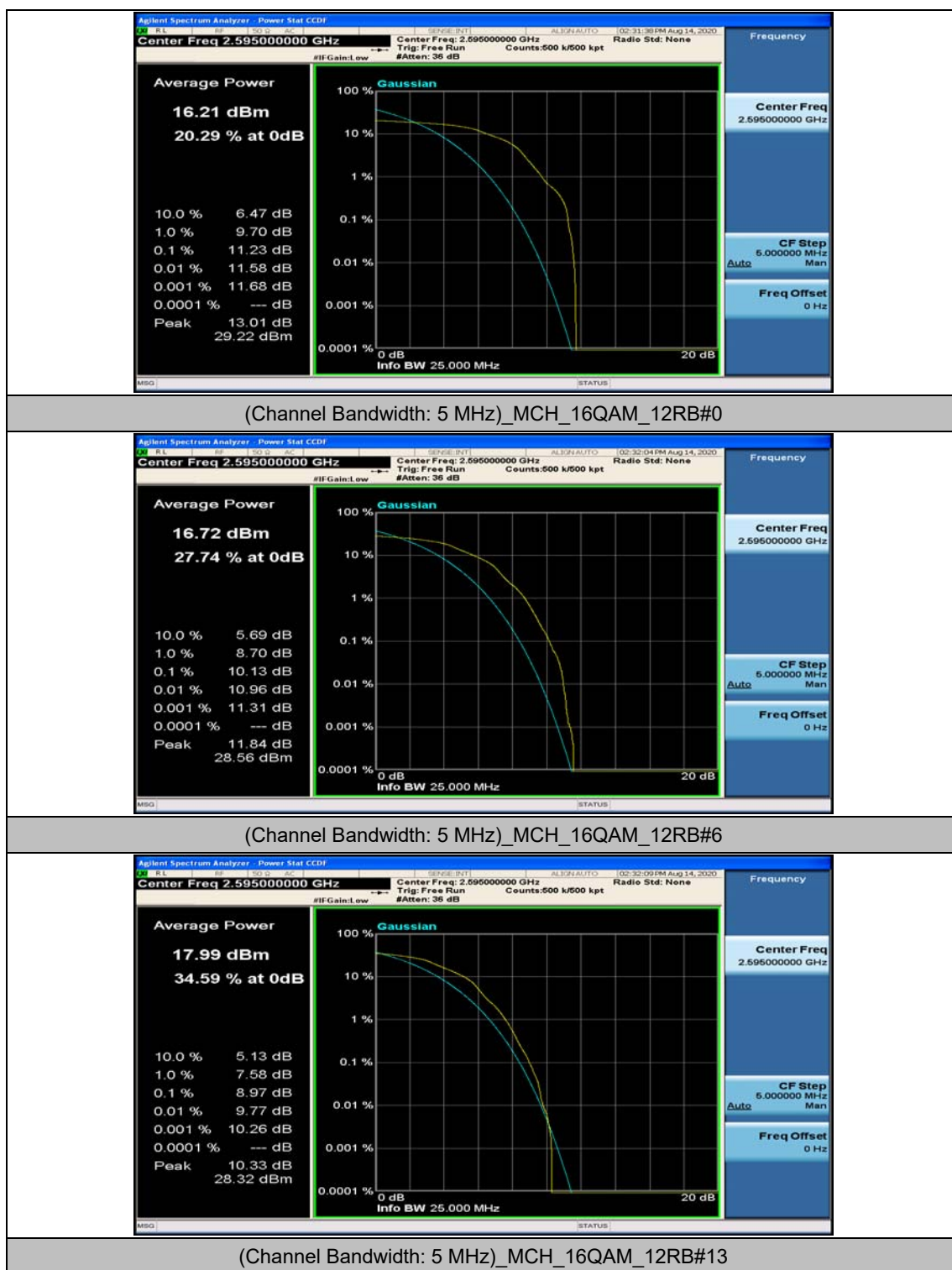
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

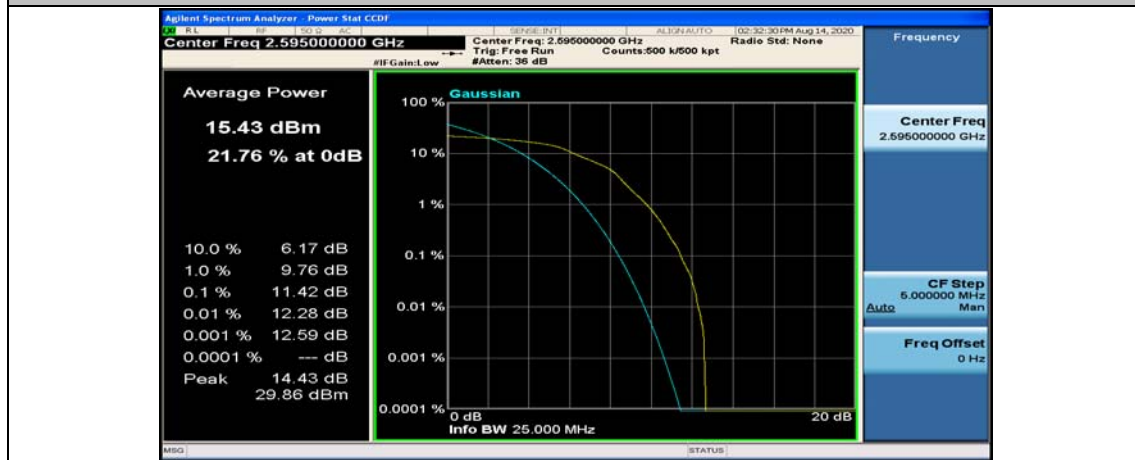


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24





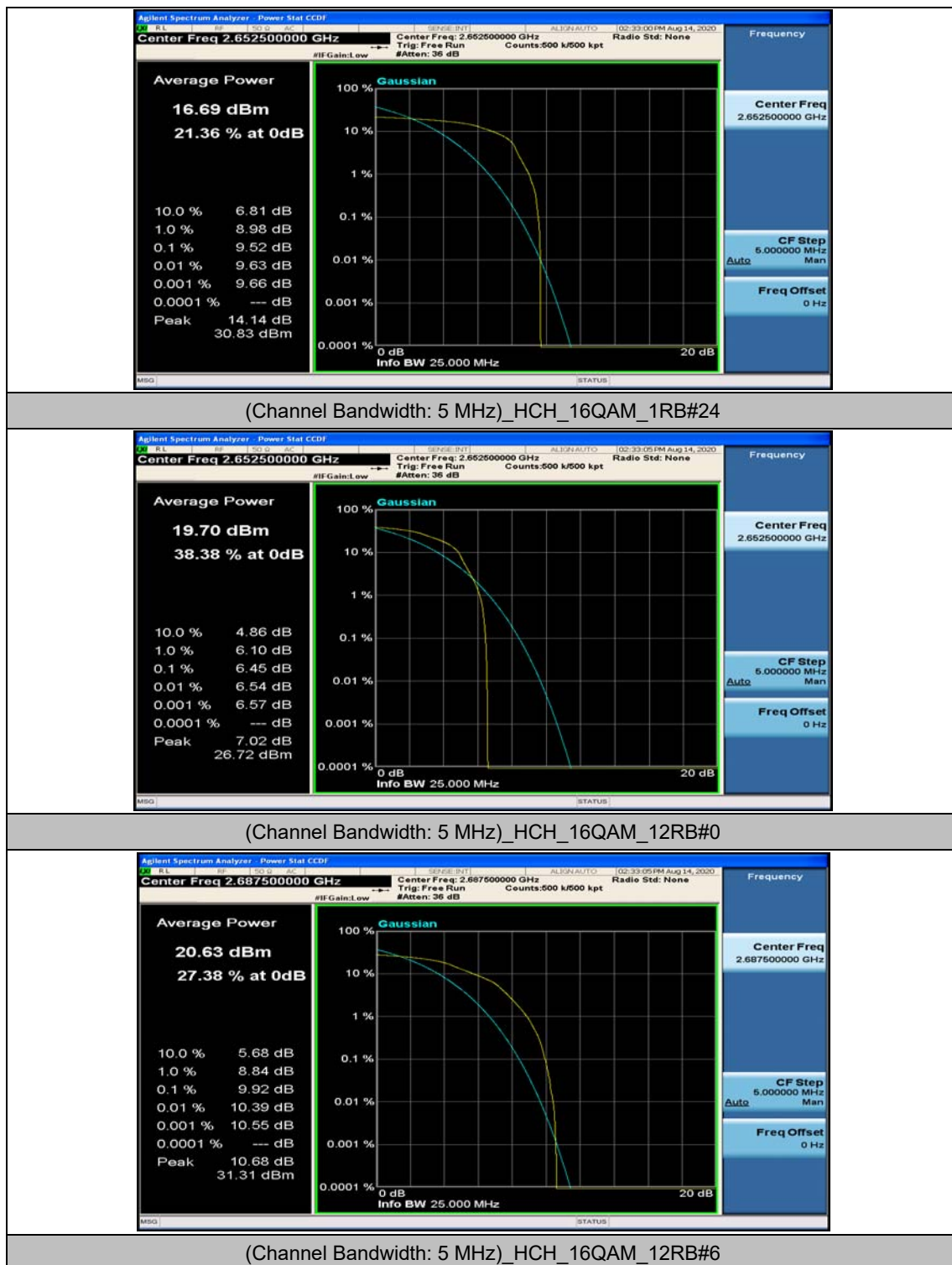
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

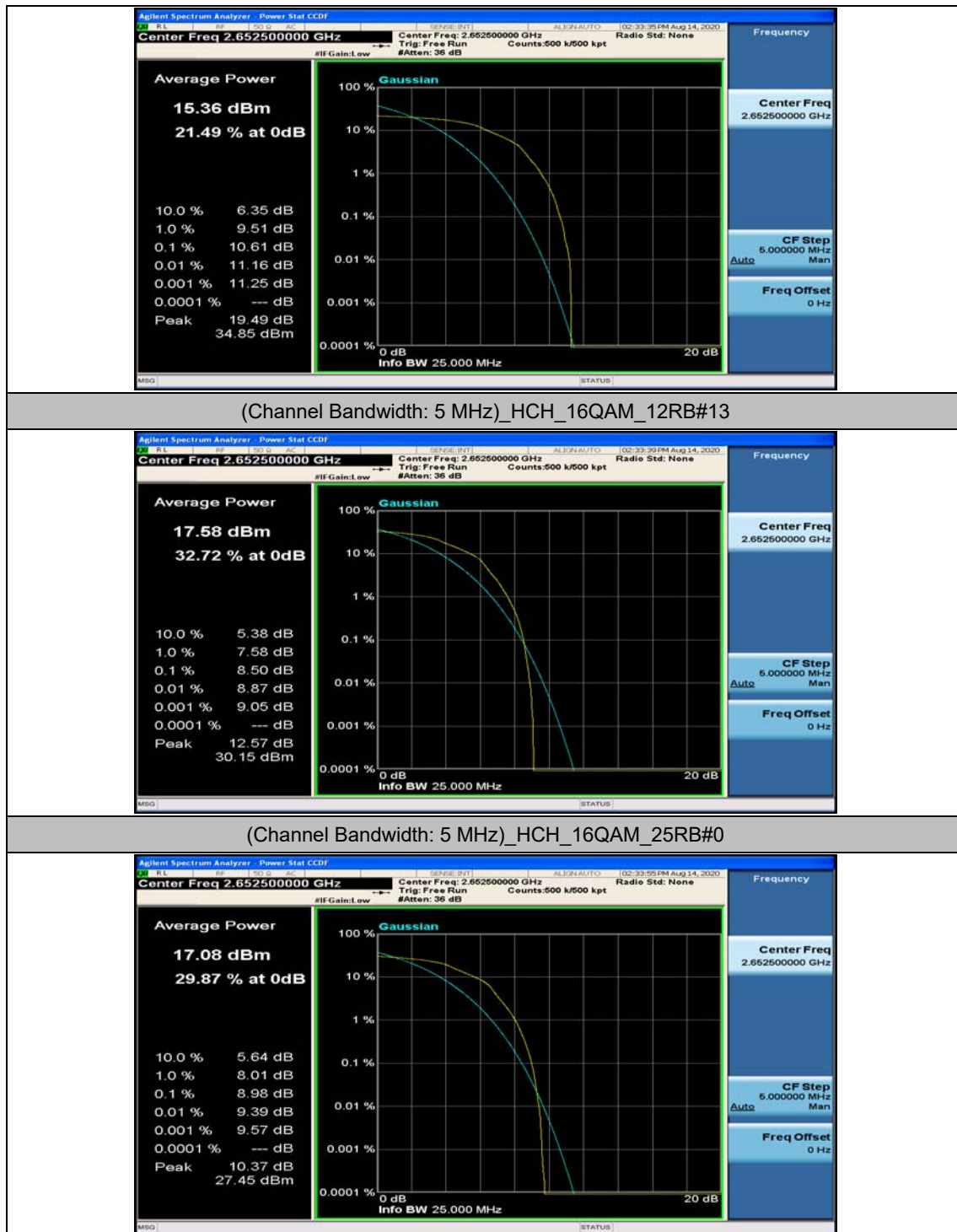


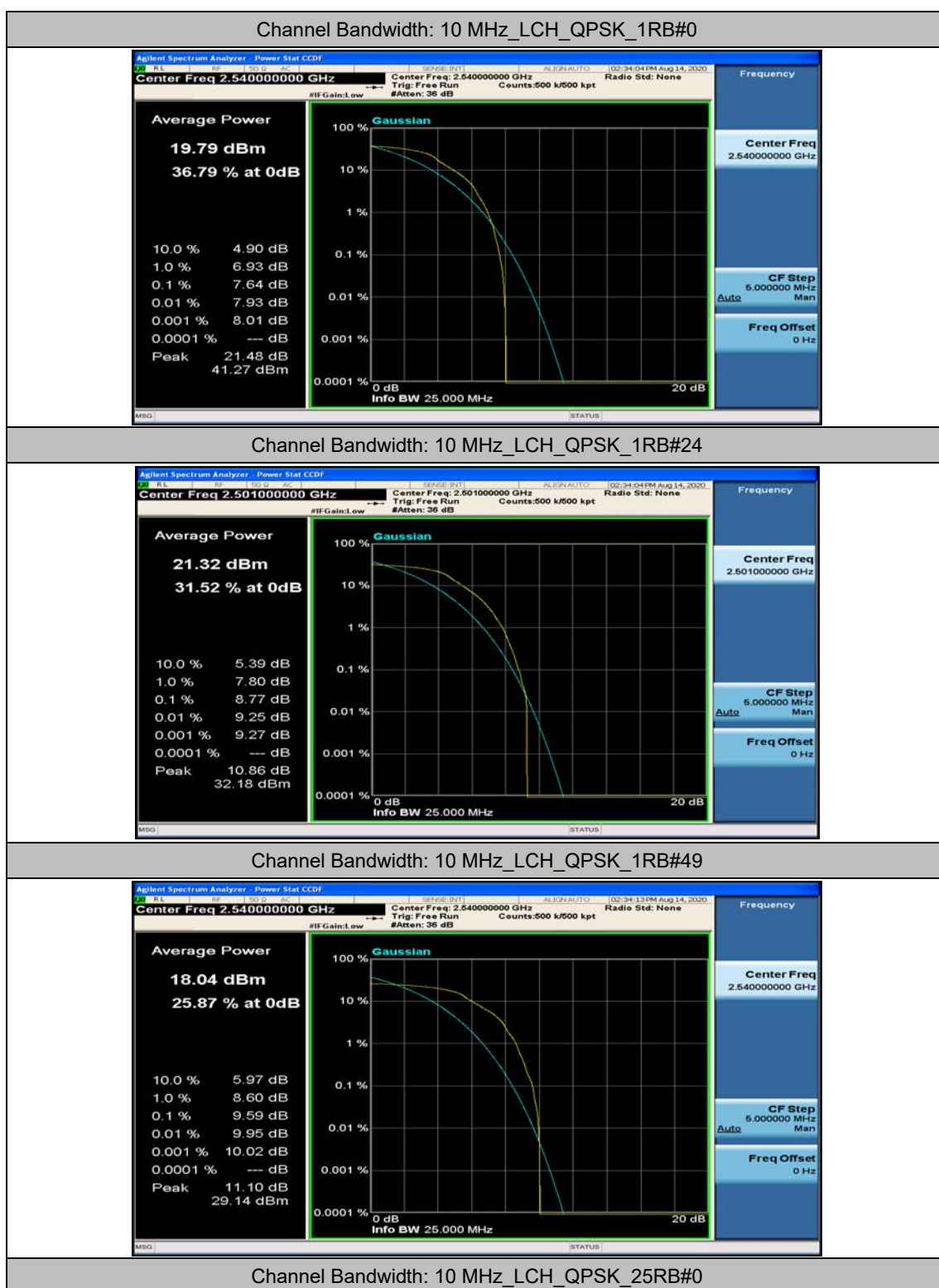
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

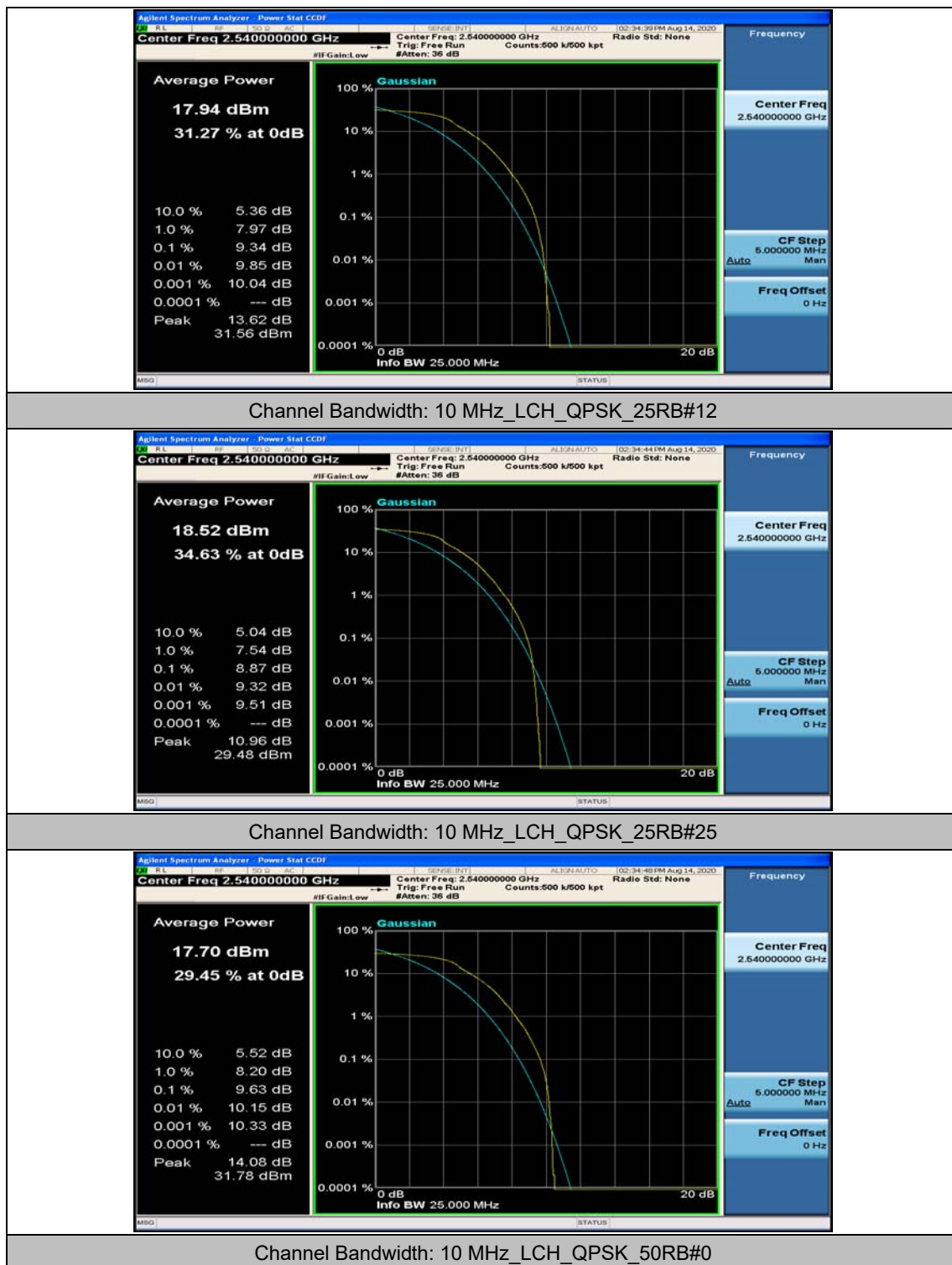


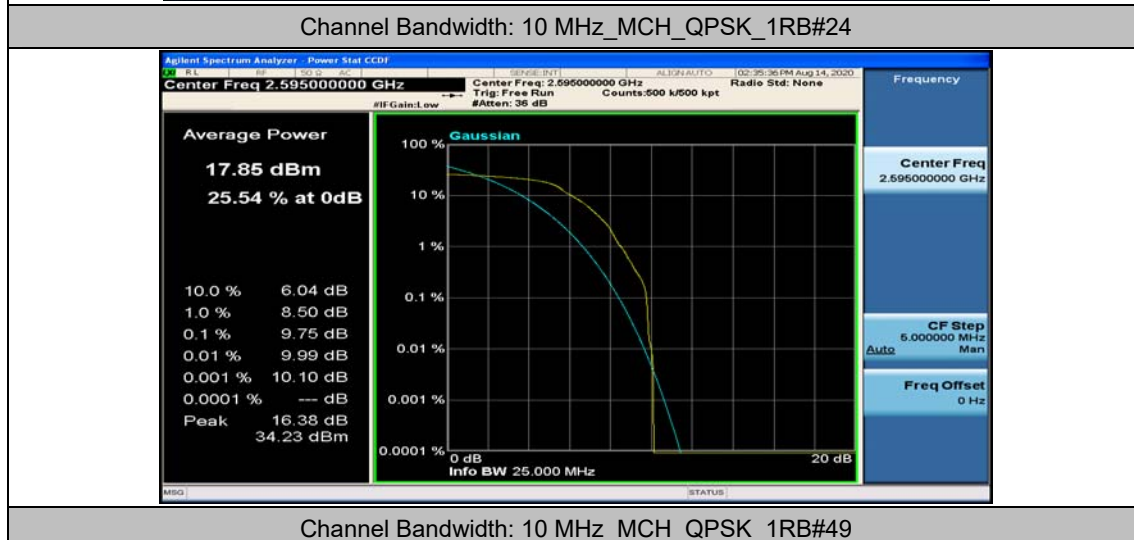
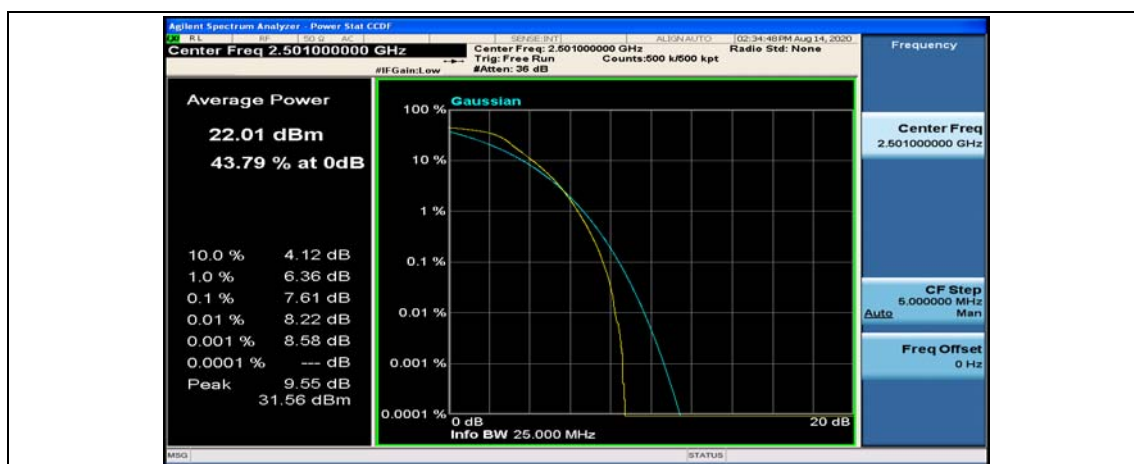
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

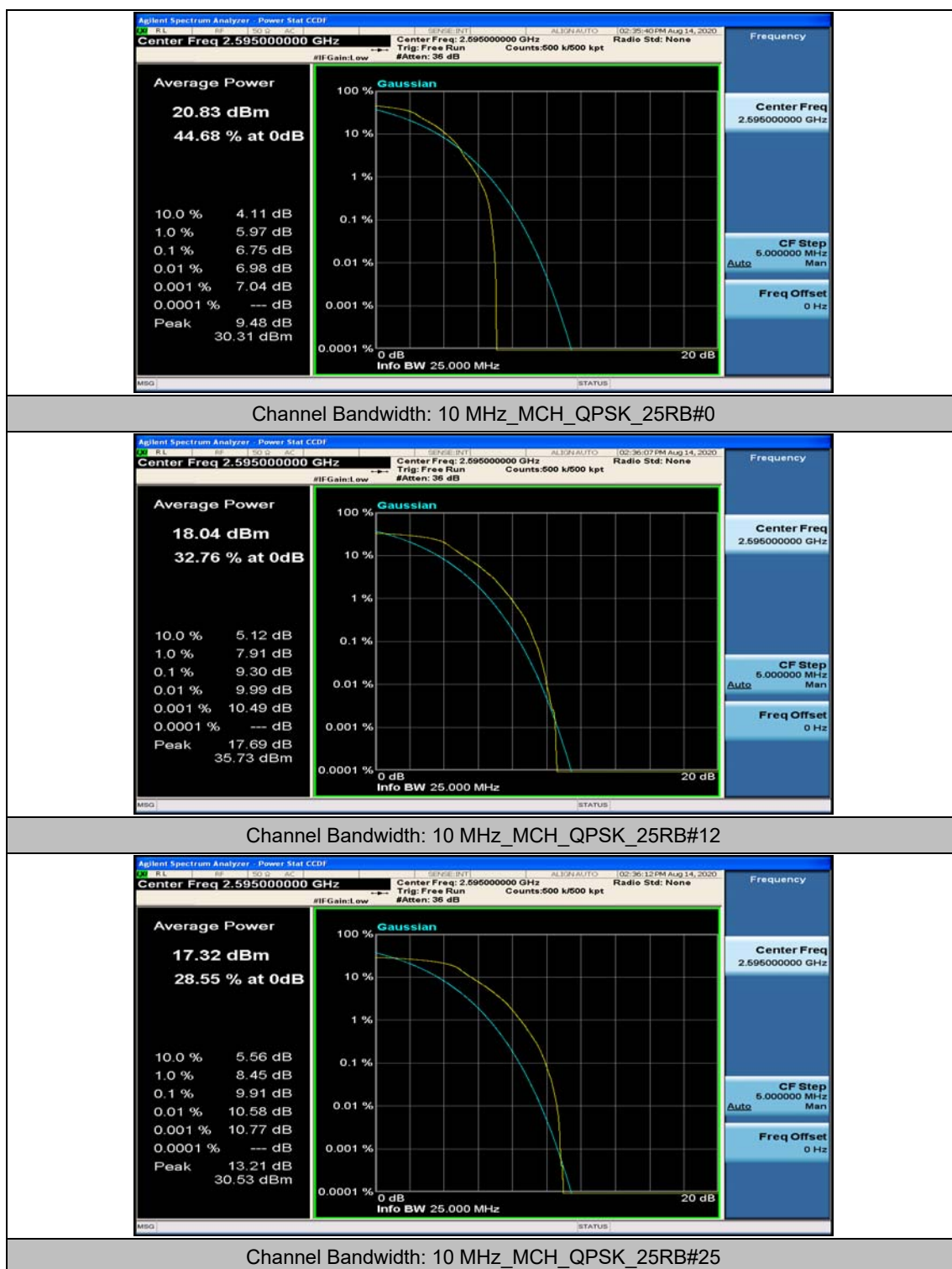


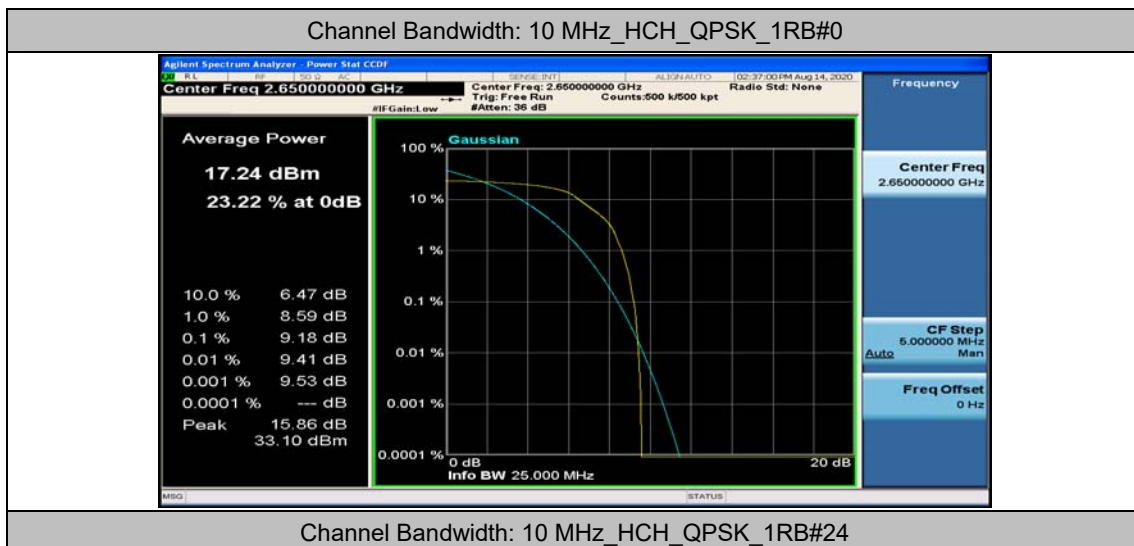


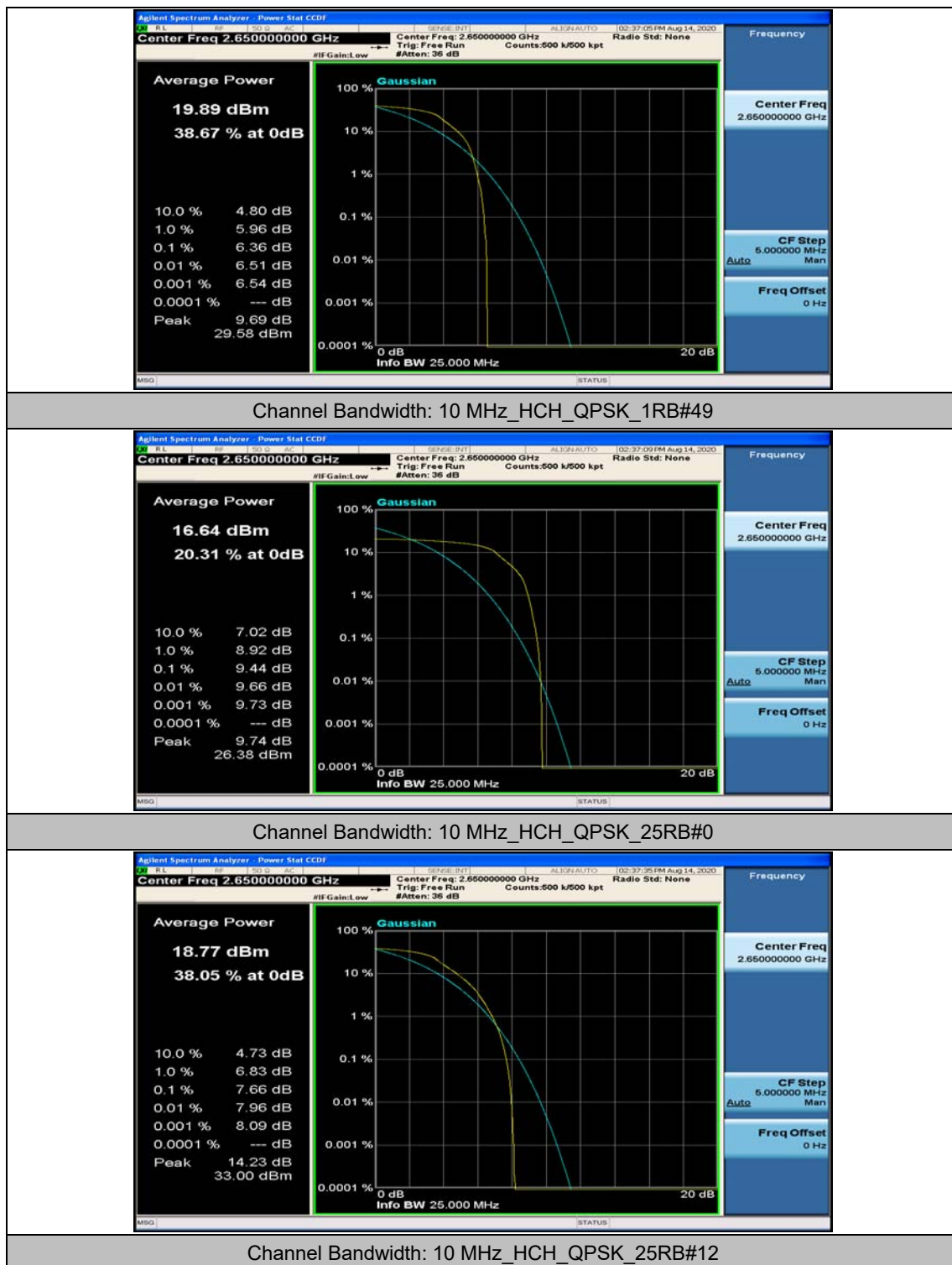
Channel Bandwidth: 10 MHz

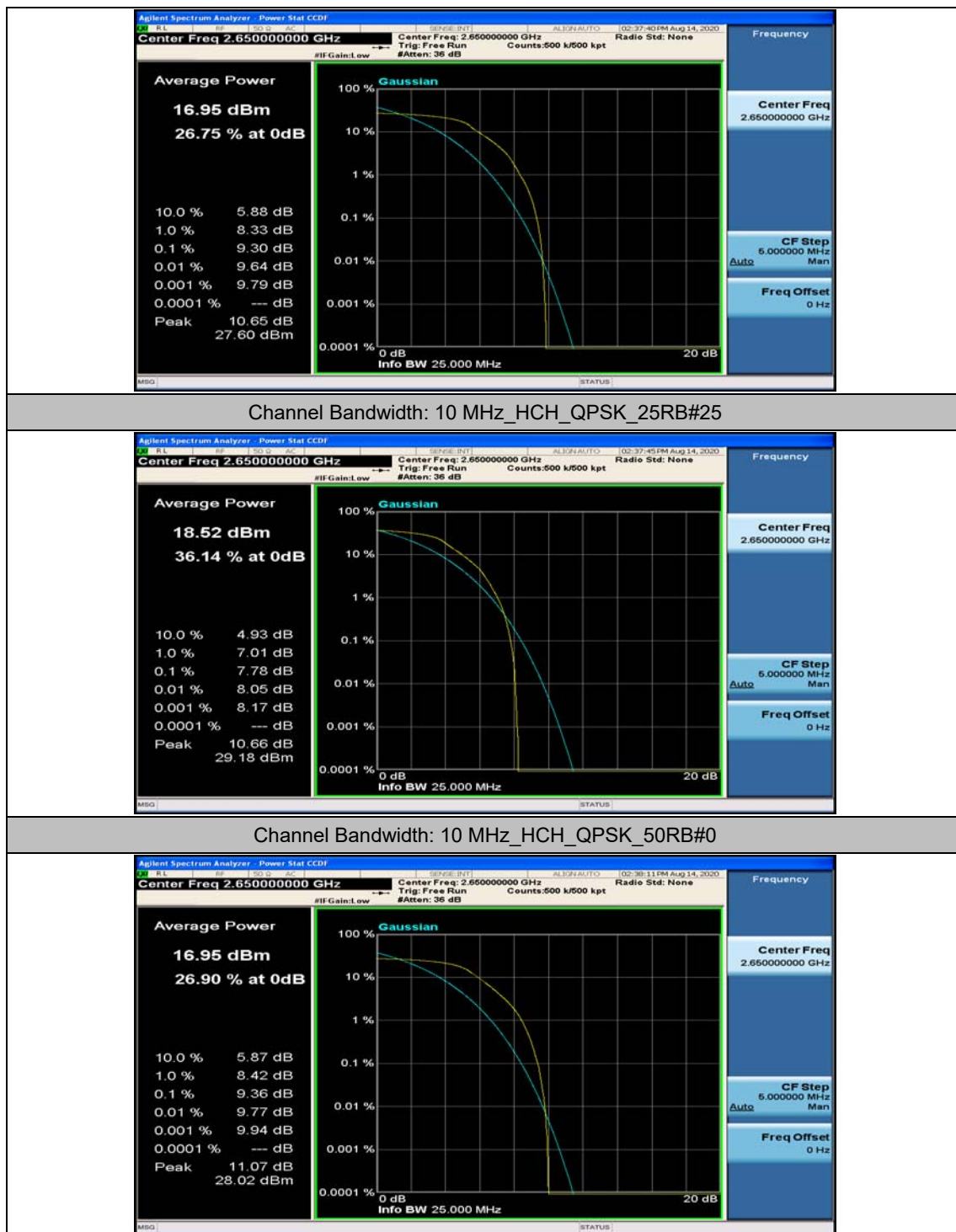












Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



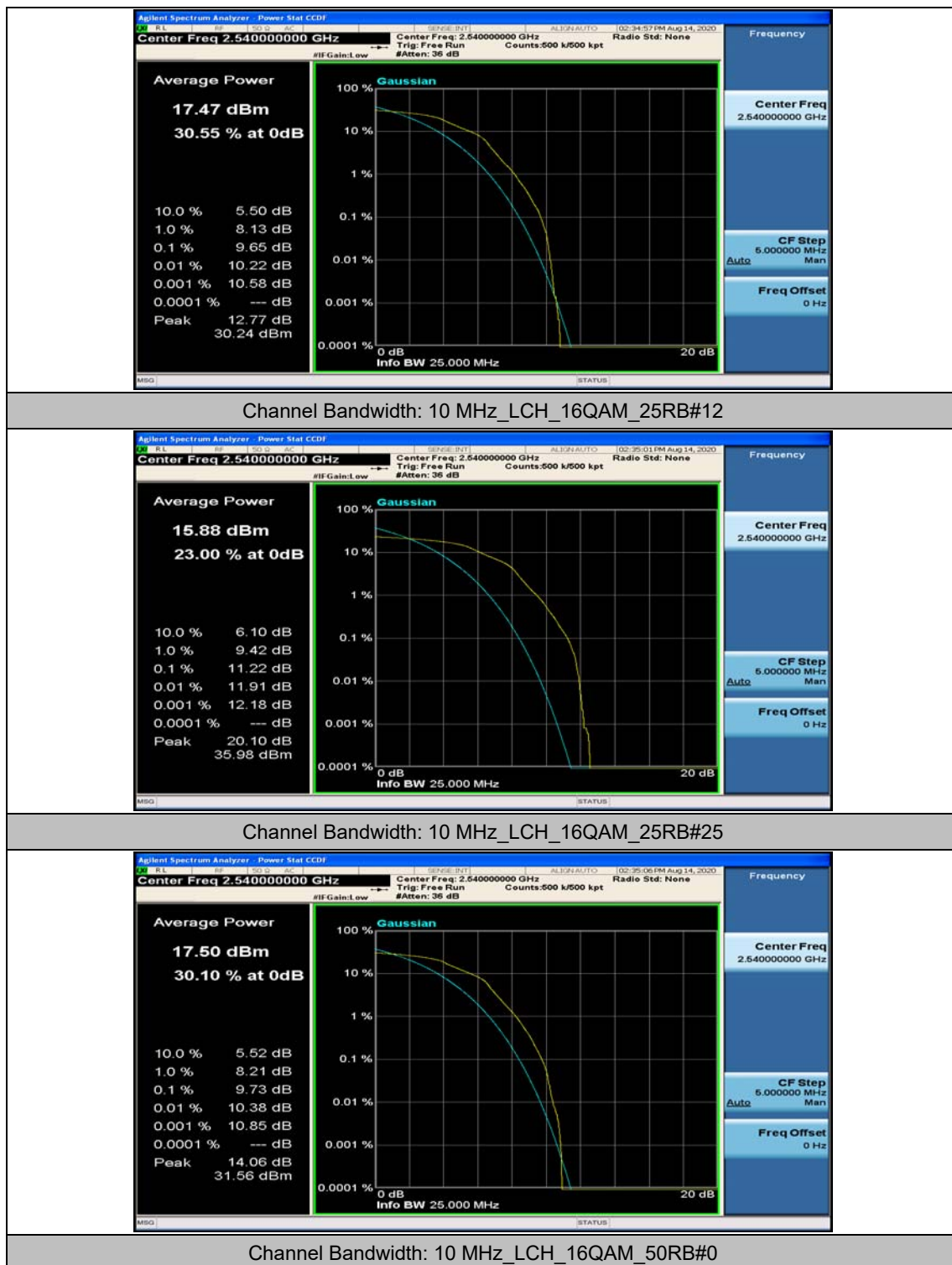
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

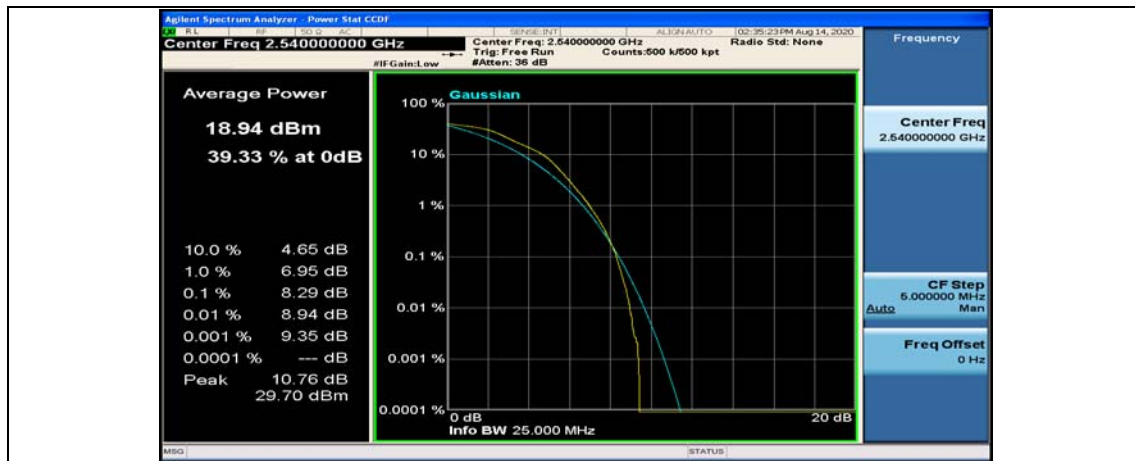


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0





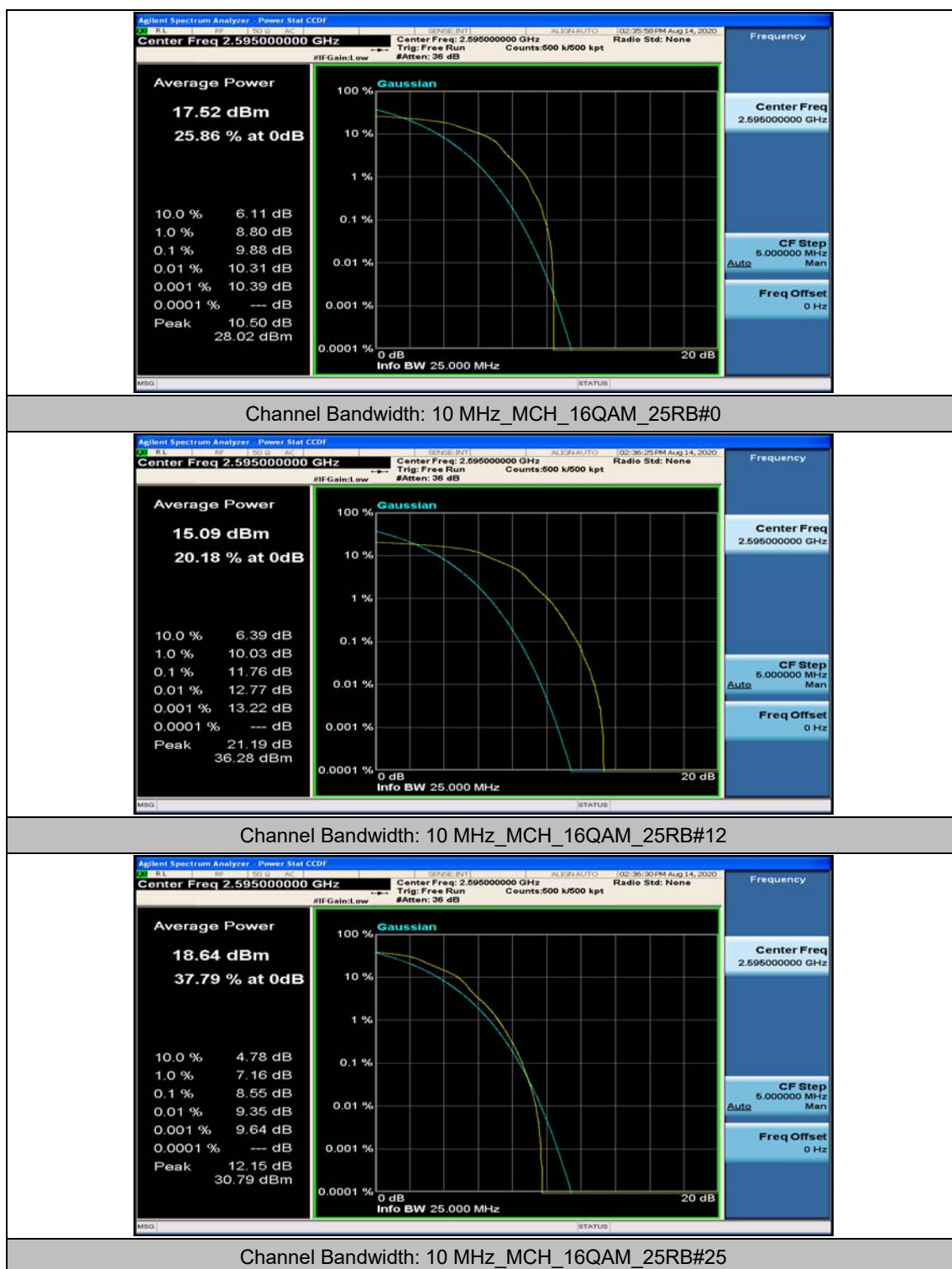
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

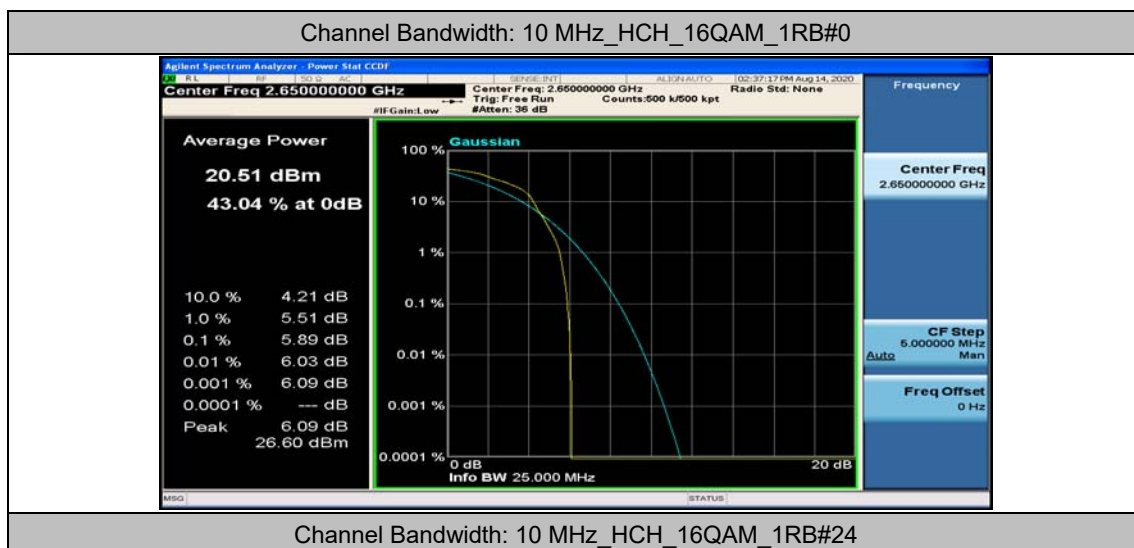


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

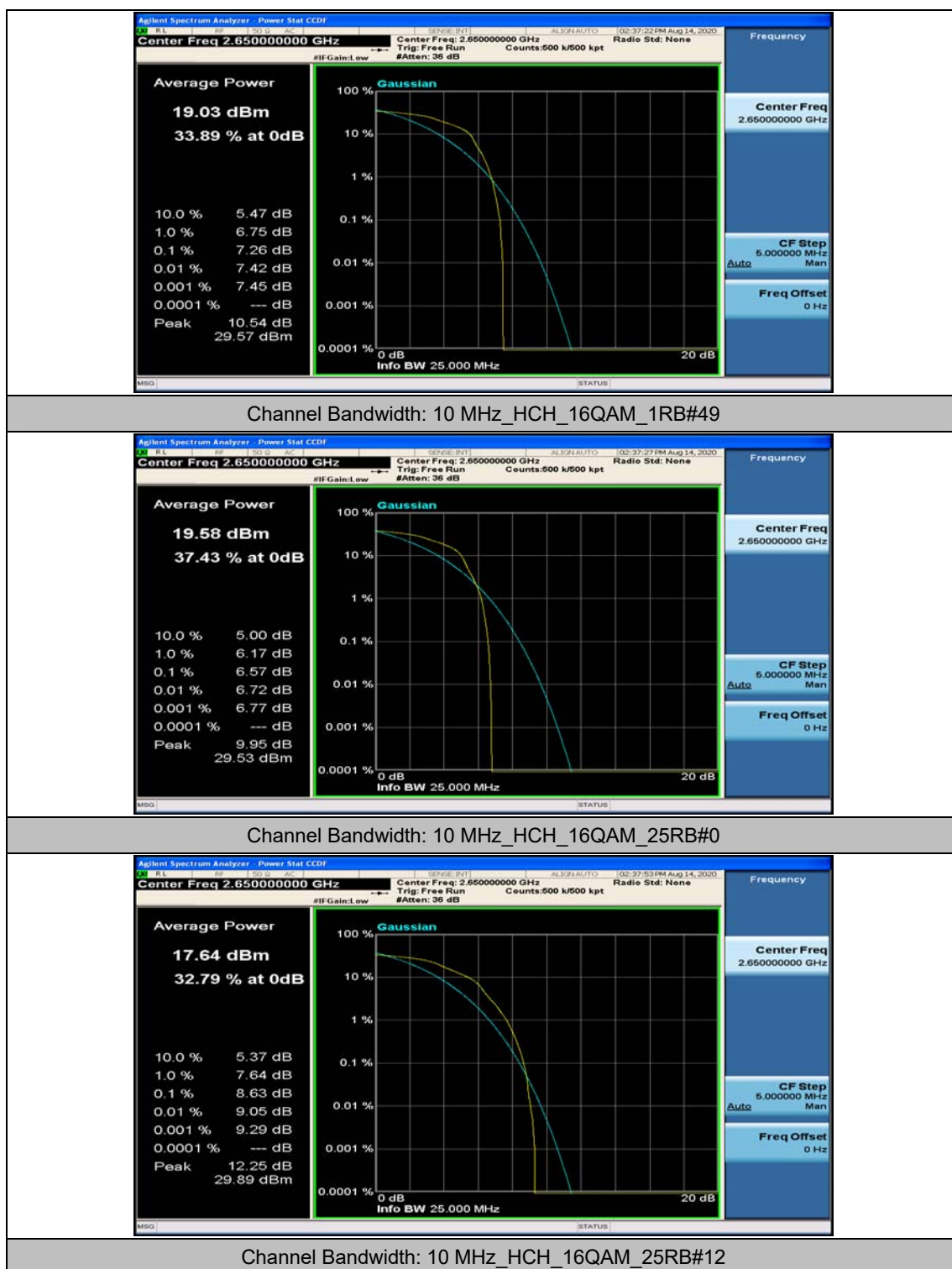


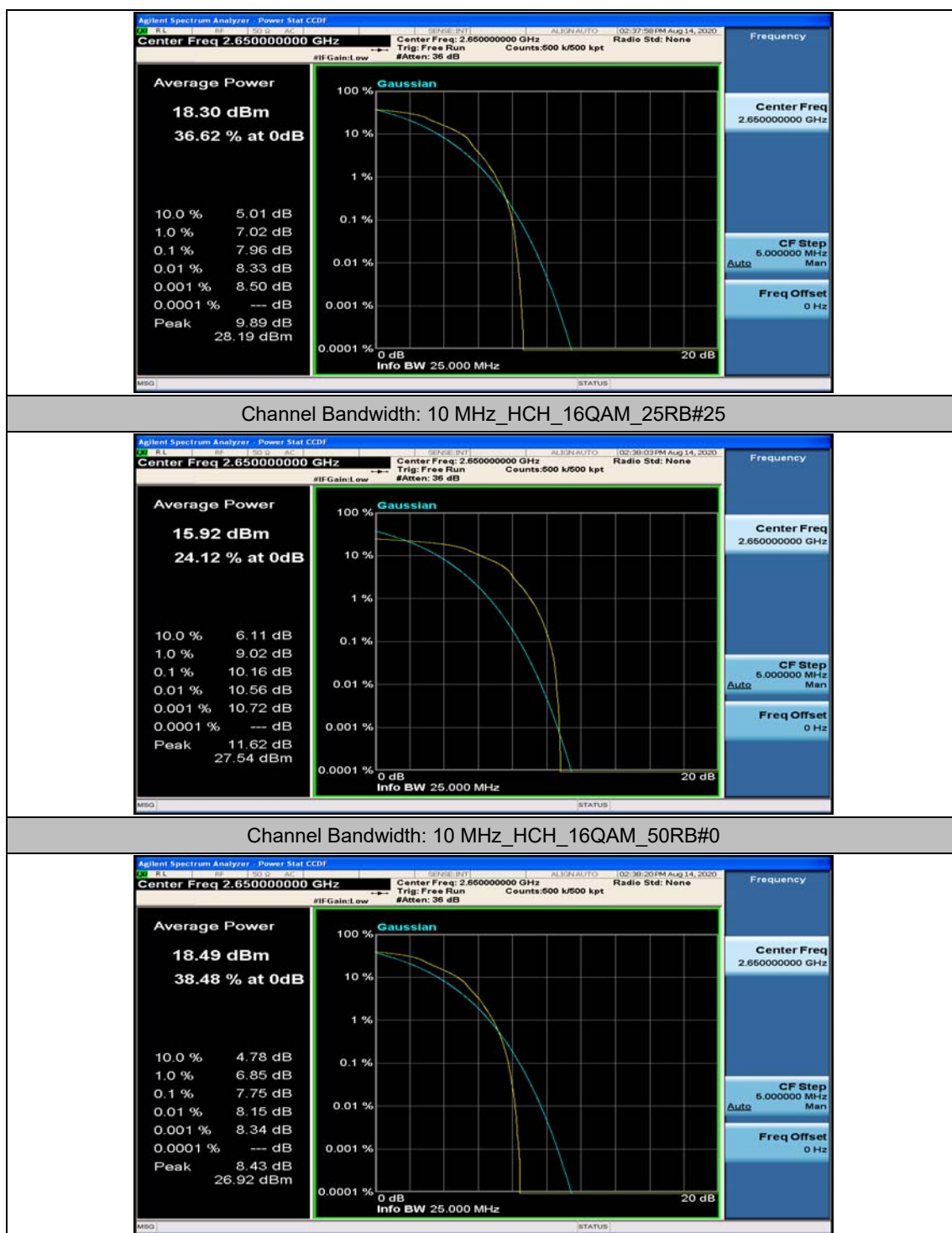
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49





Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



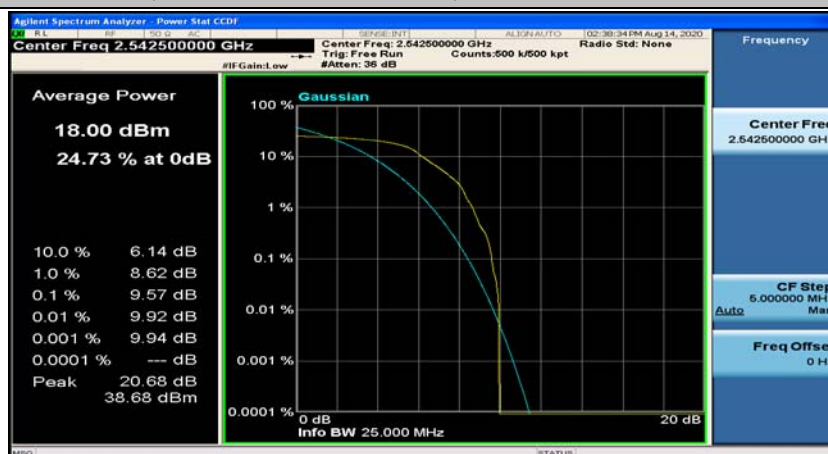


Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0



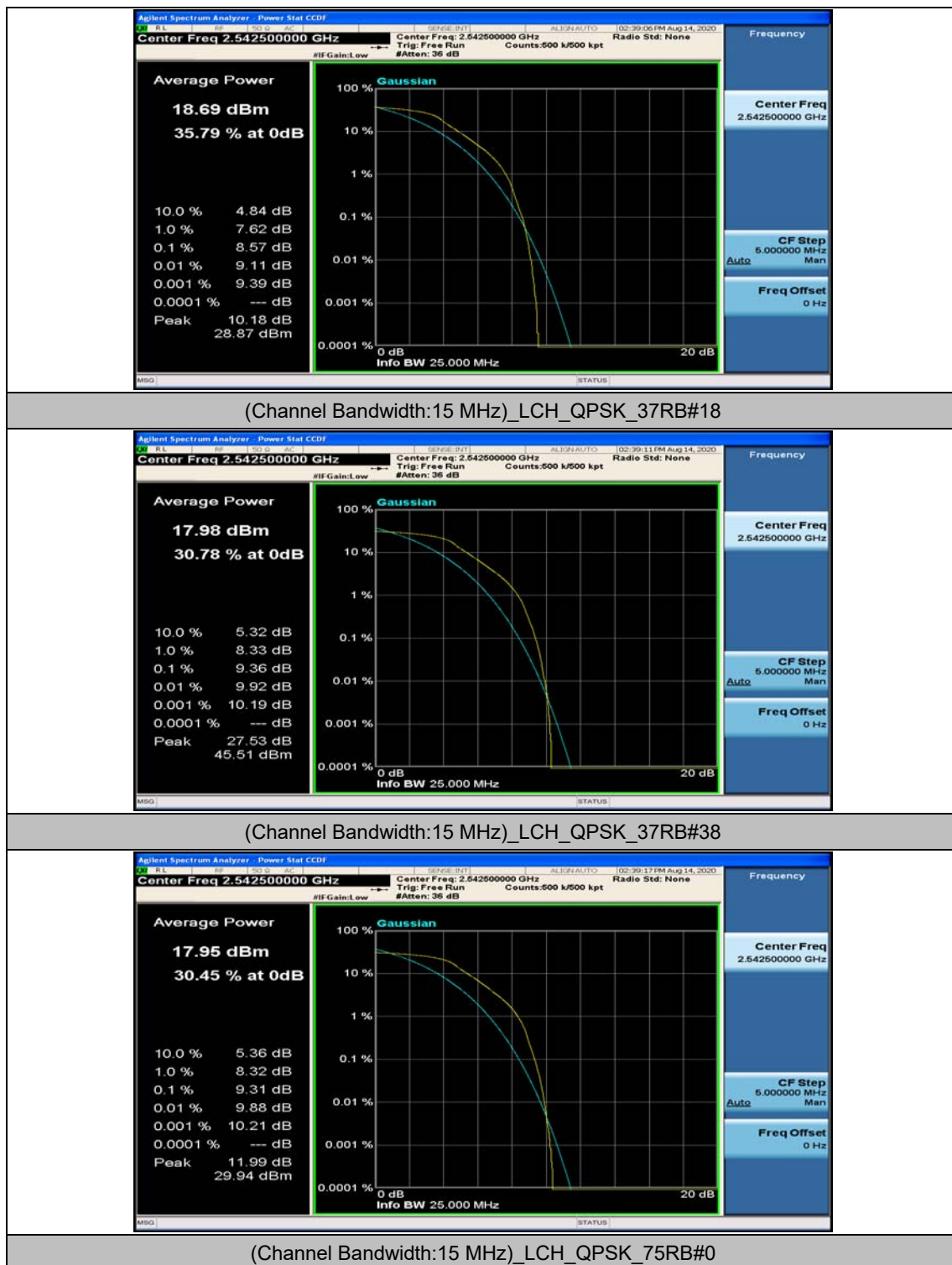
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37



(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74



(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#0

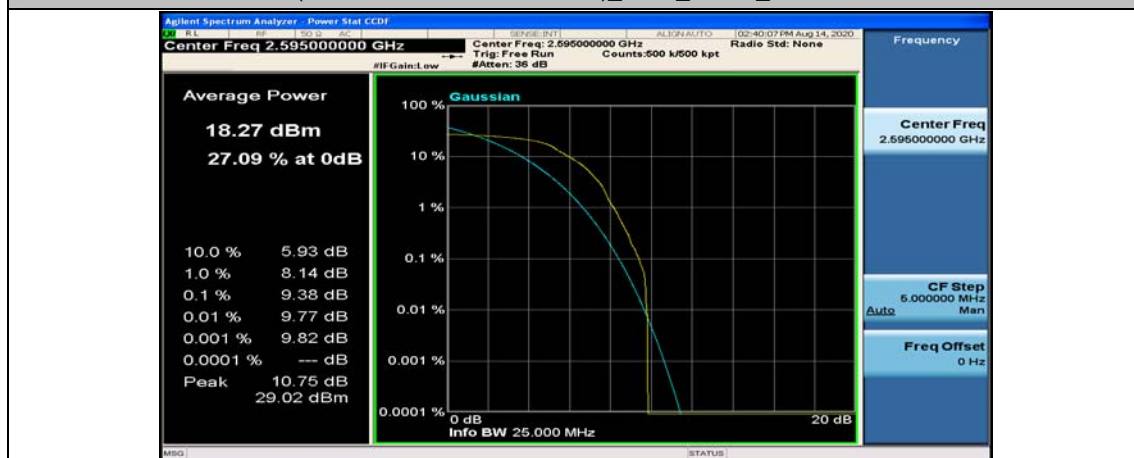




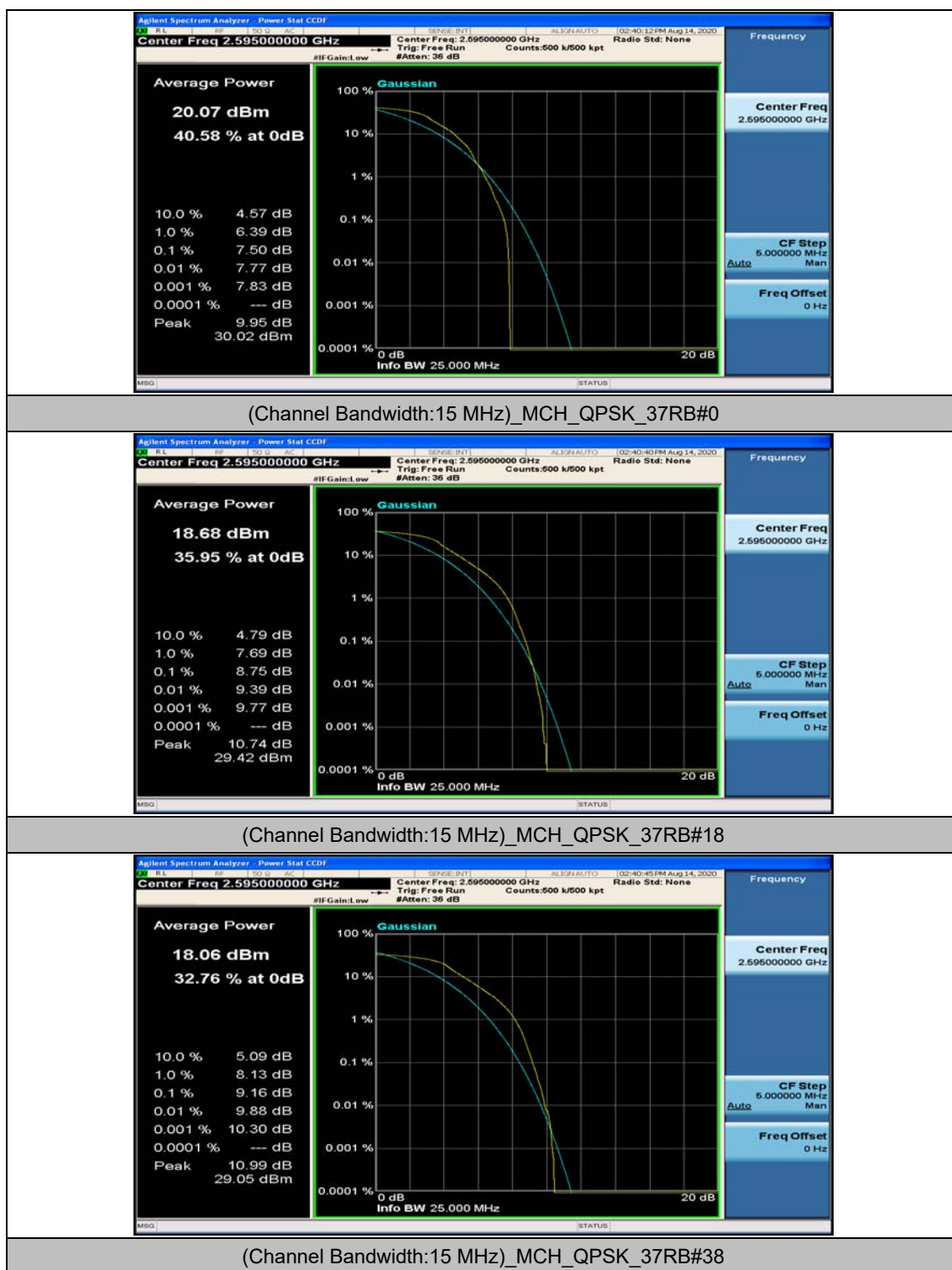
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

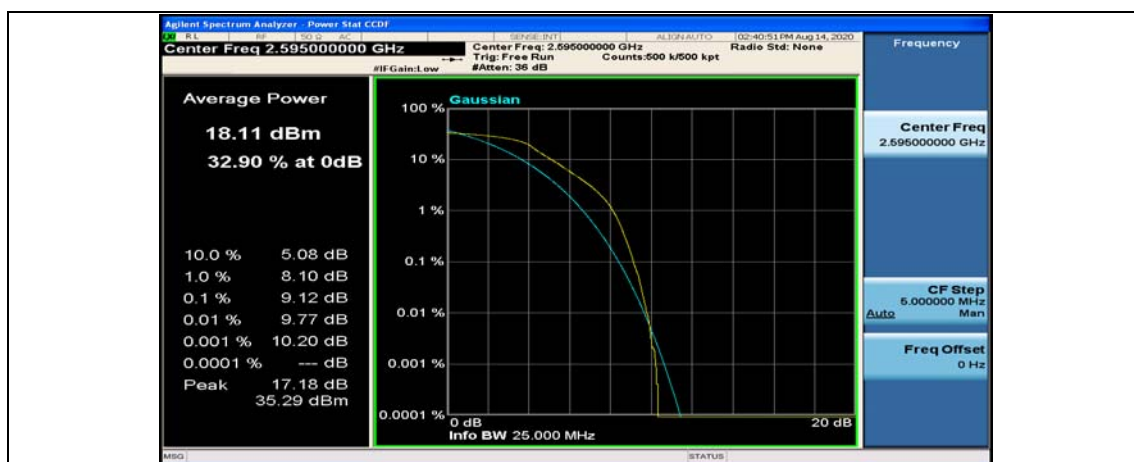


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37



(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74

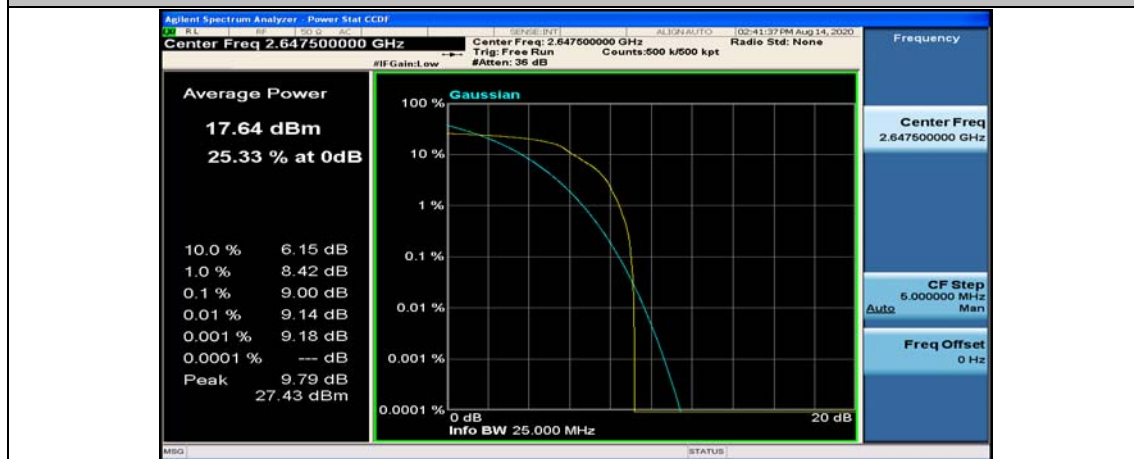




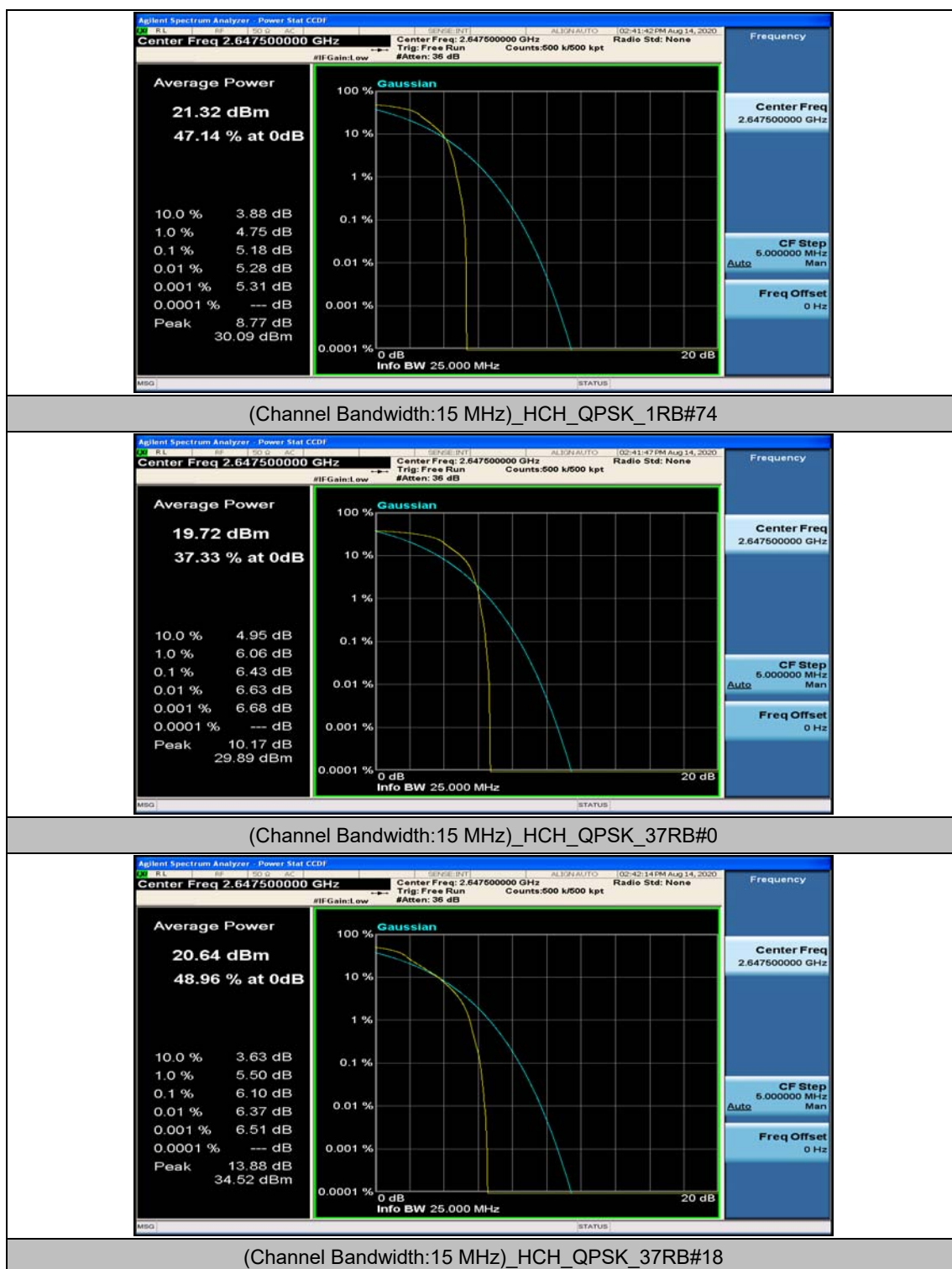
(Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0

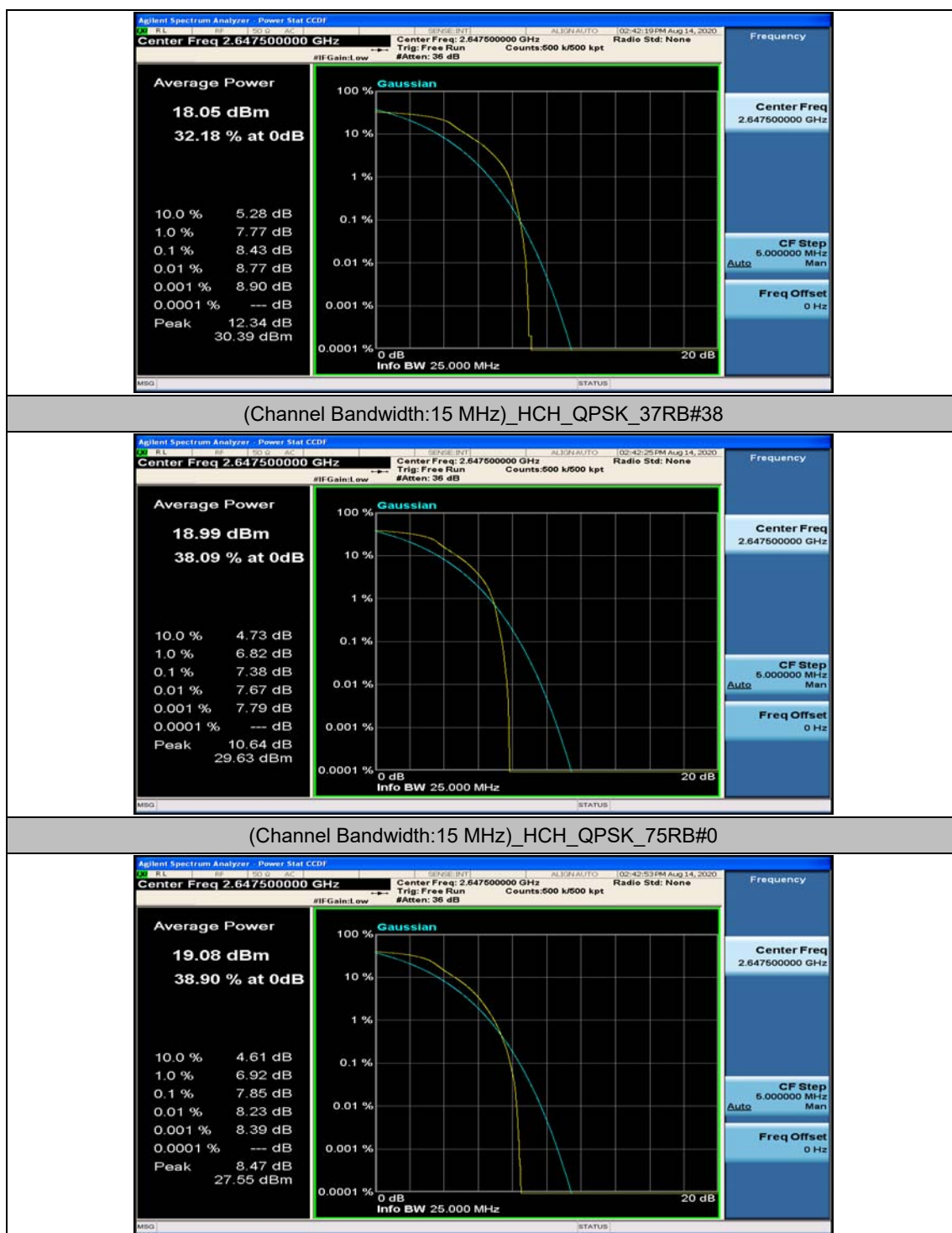


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37





(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0



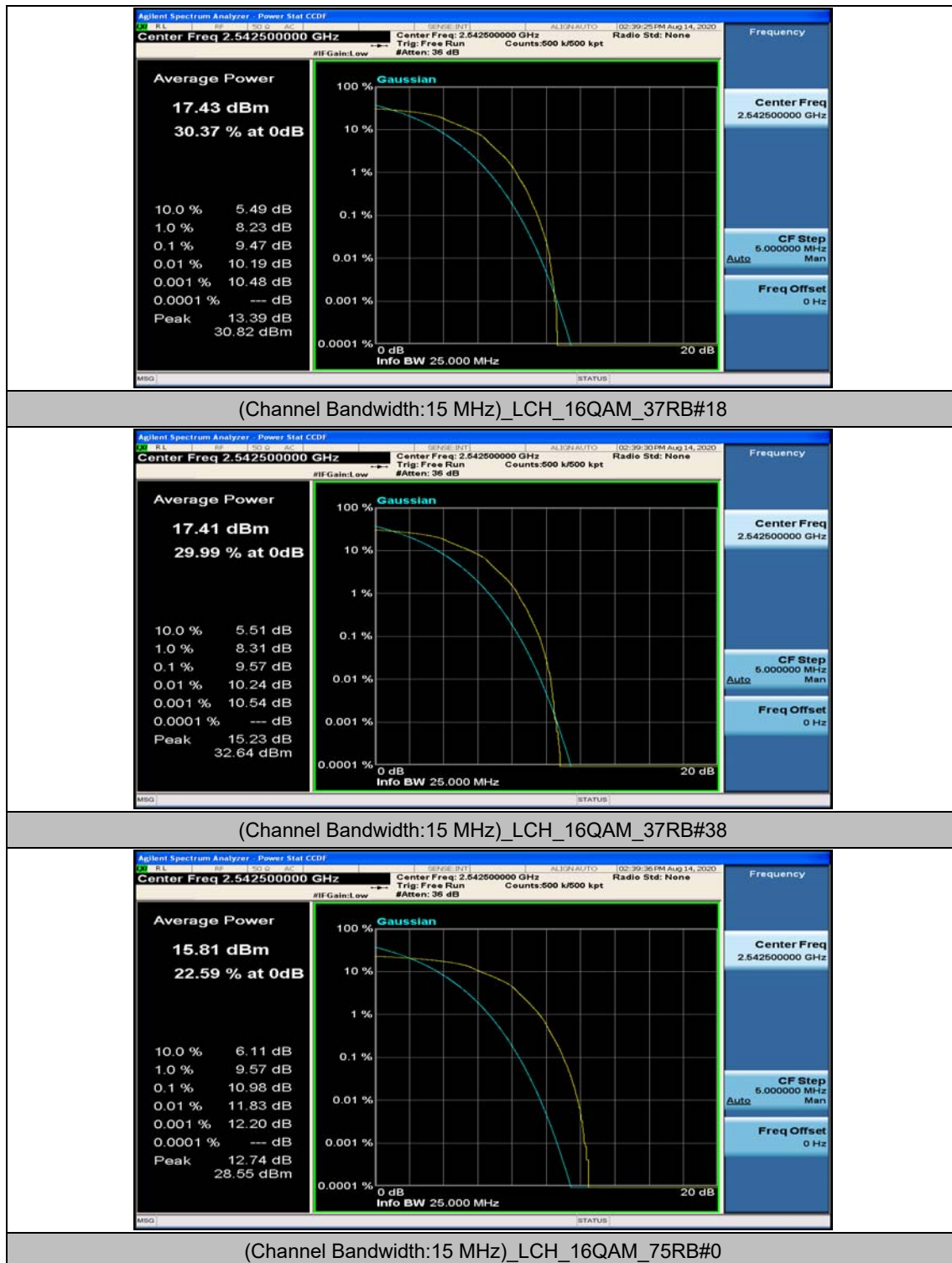
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37



(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74



(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#0





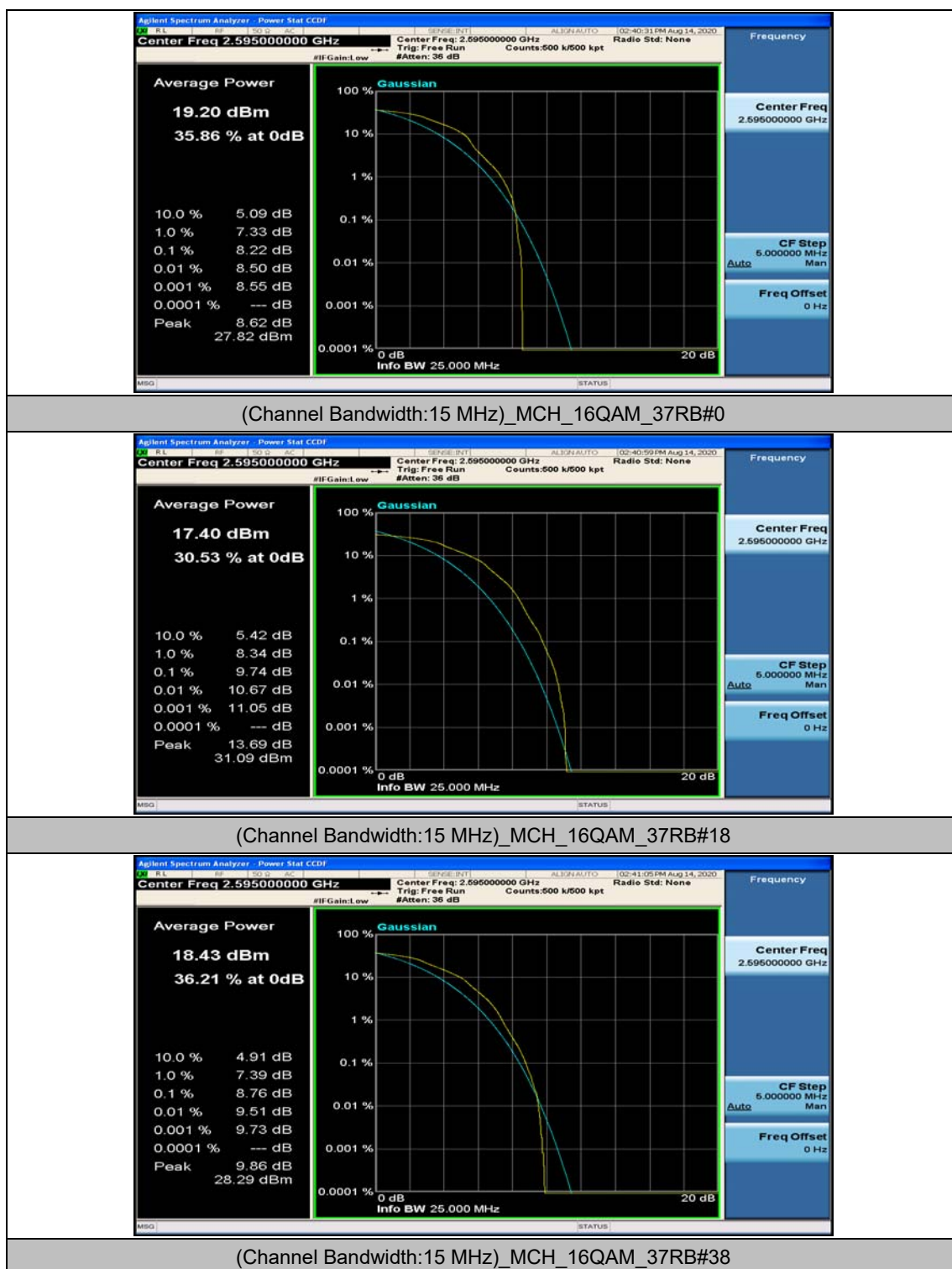
(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

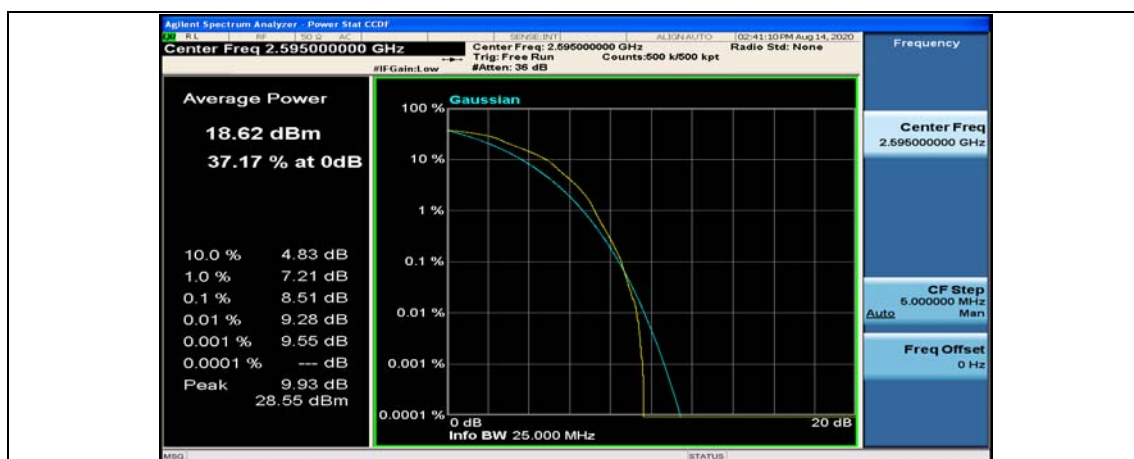


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37



(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74

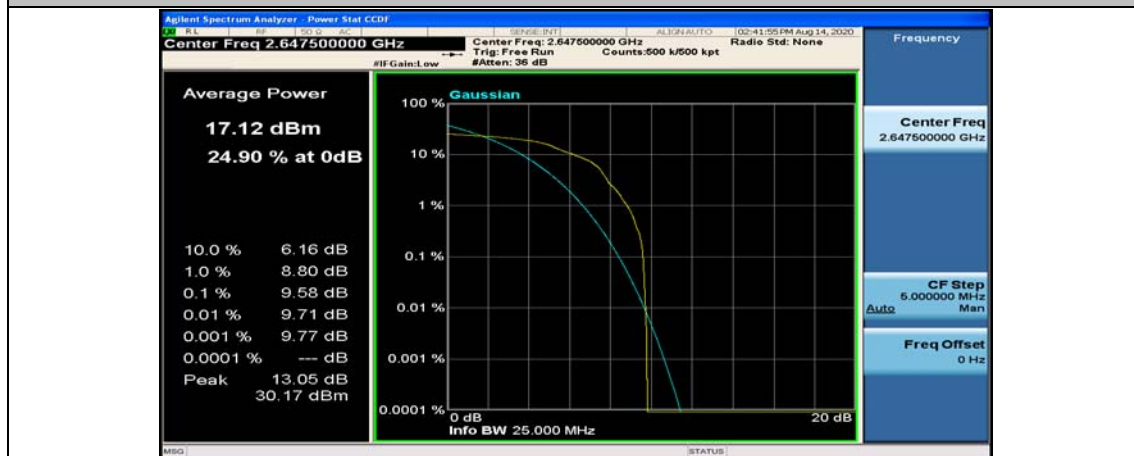




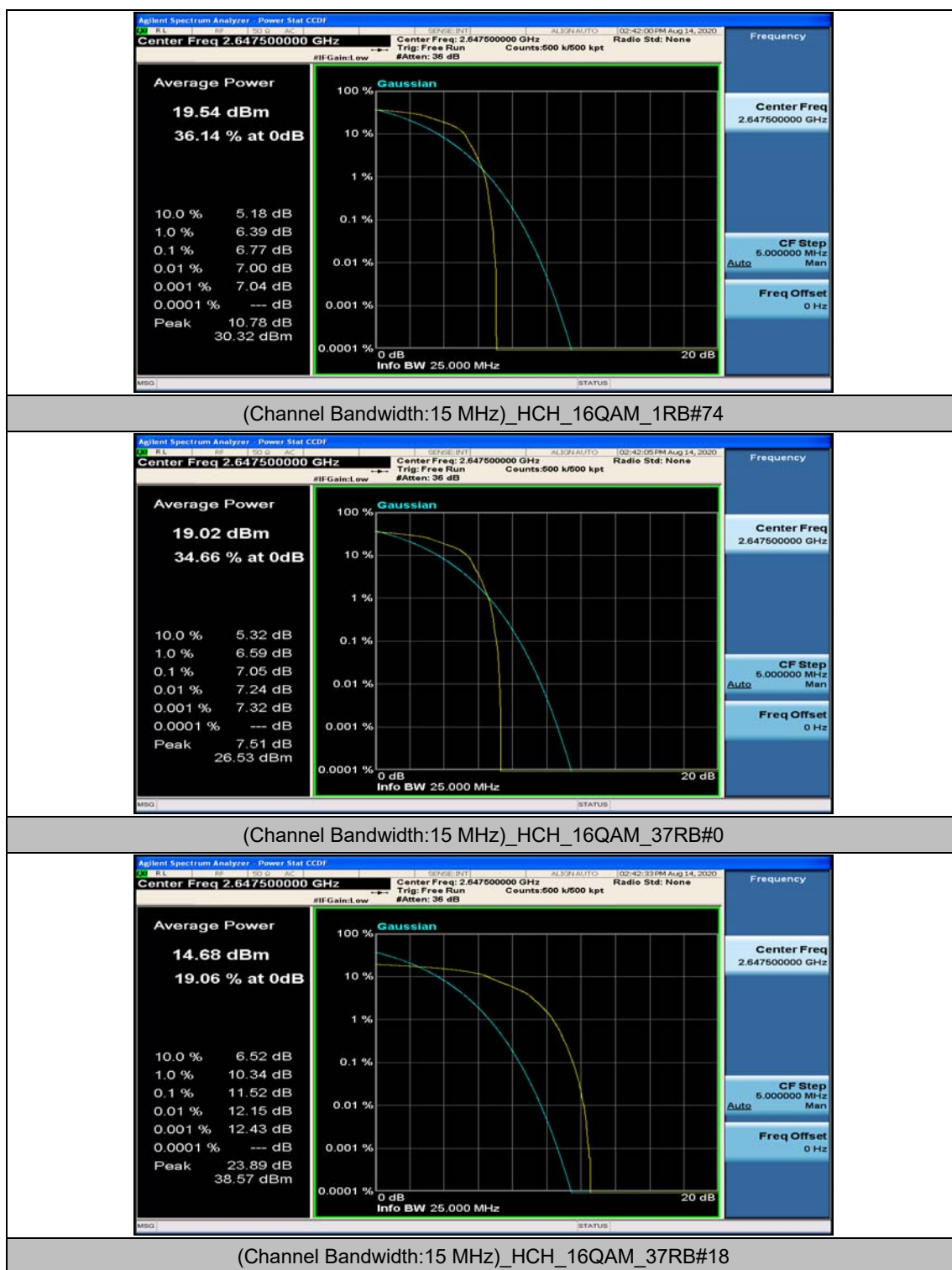
(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0

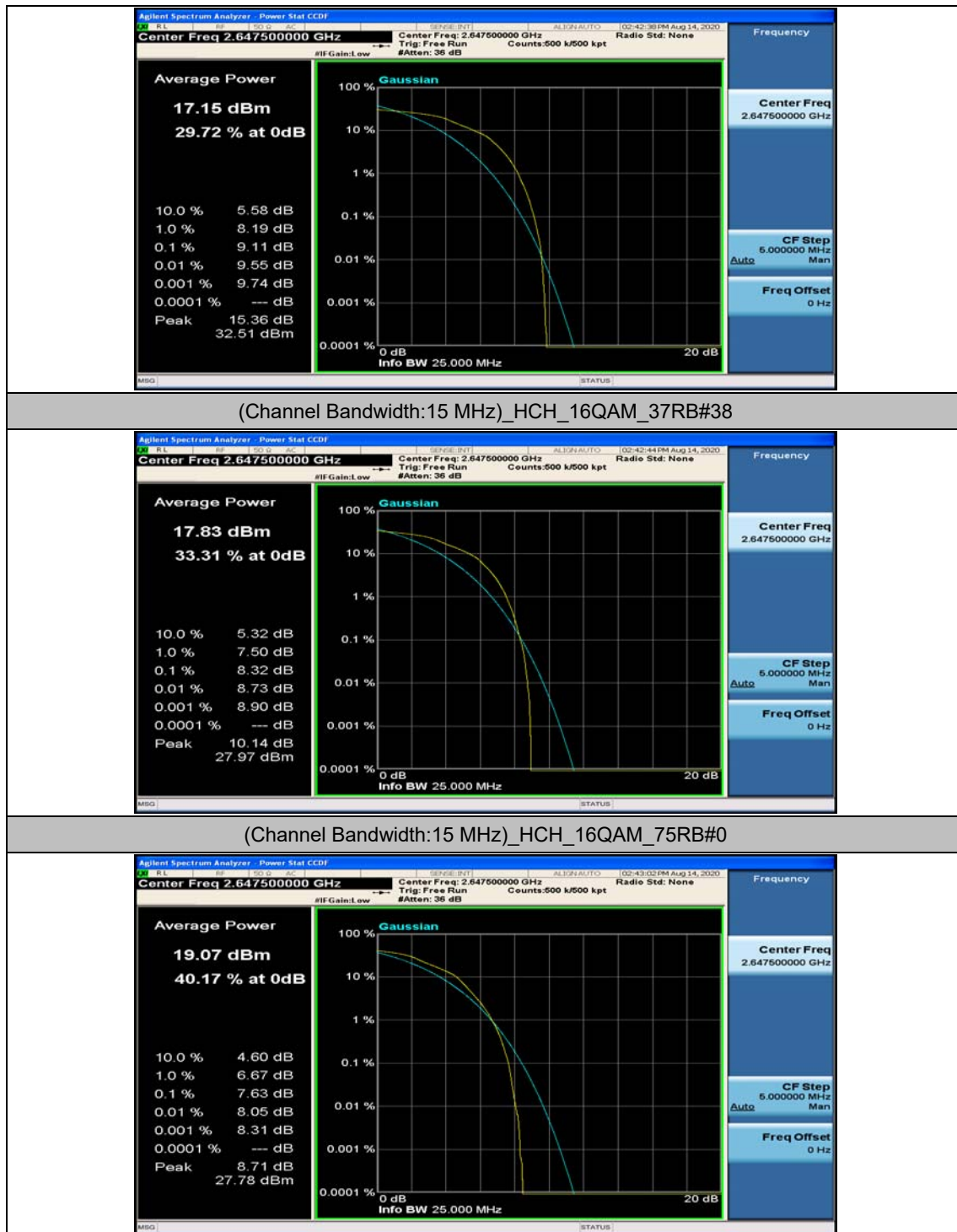


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0



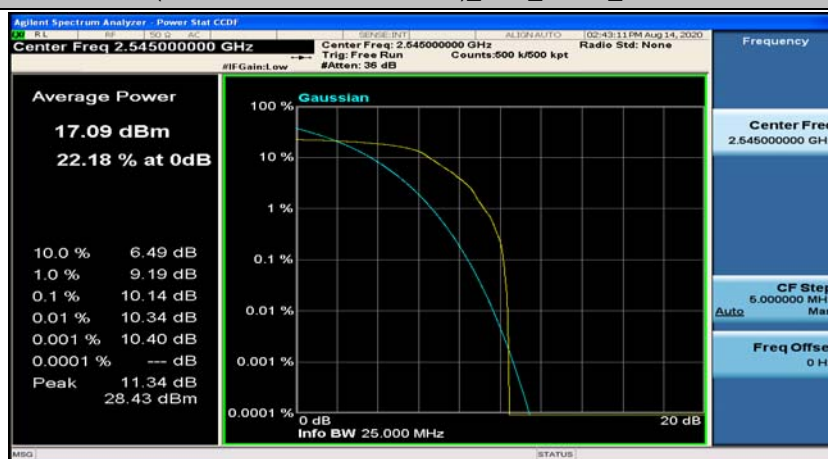
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37



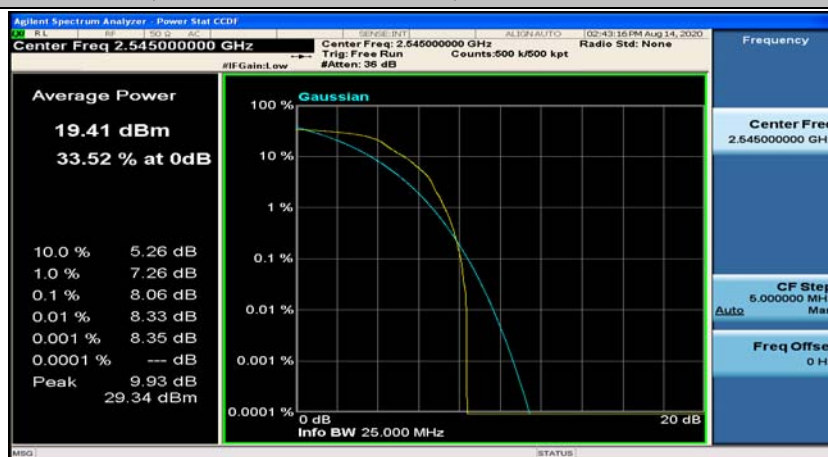


Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49



(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99



(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#0

