

Appendix for Band 7

Product Name: TD-LTE Smart Phone
Model No: conquest-S16

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	24.81	PASS
		1	12	24.83	PASS
		1	24	24.79	PASS
		12	0	23.74	PASS
		12	6	23.77	PASS
		12	13	23.74	PASS
		25	0	23.72	PASS
	MCH	1	0	24.77	PASS
		1	12	24.81	PASS
		1	24	24.72	PASS
		12	0	23.71	PASS
		12	6	23.77	PASS
		12	13	23.70	PASS
		25	0	23.72	PASS
	HCH	1	0	24.73	PASS
		1	12	24.82	PASS
		1	24	24.80	PASS
		12	0	23.73	PASS
		12	6	23.74	PASS
		12	13	23.70	PASS
		25	0	23.70	PASS
16QAM	LCH	1	0	23.91	PASS
		1	12	24.00	PASS
		1	24	24.00	PASS
		12	0	22.83	PASS
		12	6	22.86	PASS
		12	13	22.86	PASS
		25	0	22.86	PASS
	MCH	1	0	23.87	PASS
		1	12	23.93	PASS
		1	24	23.87	PASS
		12	0	22.86	PASS
		12	6	22.90	PASS

		12	13	22.80	PASS
		25	0	22.78	PASS
	HCH	1	0	23.83	PASS
		1	12	23.91	PASS
		1	24	23.87	PASS
		12	0	22.71	PASS
		12	6	22.78	PASS
		12	13	22.70	PASS
		25	0	22.81	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.75	PASS
		1	24	24.89	PASS
		1	49	24.84	PASS
		25	0	23.76	PASS
		25	12	23.81	PASS
		25	25	23.87	PASS
		50	0	23.85	PASS
	MCH	1	0	24.87	PASS
		1	24	24.83	PASS
		1	49	24.77	PASS
		25	0	23.76	PASS
		25	12	23.75	PASS
		25	25	23.74	PASS
		50	0	23.79	PASS
	HCH	1	0	24.72	PASS
		1	24	24.80	PASS
		1	49	24.82	PASS
		25	0	23.71	PASS
		25	12	23.74	PASS
		25	25	23.72	PASS
		50	0	23.76	PASS
16QAM	LCH	1	0	24.00	PASS
		1	24	24.06	PASS
		1	49	24.05	PASS
		25	0	22.87	PASS
		25	12	22.90	PASS
		25	25	22.92	PASS
		50	0	22.93	PASS

	MCH	1	0	24.07	PASS
		1	24	24.09	PASS
		1	49	24.04	PASS
		25	0	22.84	PASS
		25	12	22.79	PASS
		25	25	22.81	PASS
		50	0	22.88	PASS
	HCH	1	0	23.91	PASS
		1	24	23.97	PASS
		1	49	23.94	PASS
		25	0	22.80	PASS
		25	12	22.80	PASS
		25	25	22.79	PASS
		50	0	22.83	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.79	PASS
		1	37	24.83	PASS
		1	74	24.79	PASS
		37	0	23.81	PASS
		37	18	23.89	PASS
		37	38	23.92	PASS
		75	0	23.92	PASS
	MCH	1	0	24.90	PASS
		1	37	24.86	PASS
		1	74	24.70	PASS
		37	0	23.84	PASS
		37	18	23.87	PASS
		37	38	23.80	PASS
		75	0	23.88	PASS
	HCH	1	0	24.74	PASS
		1	37	24.77	PASS
		1	74	24.74	PASS
		37	0	23.76	PASS
		37	18	23.79	PASS
		37	38	23.79	PASS
		75	0	23.79	PASS
16QAM	LCH	1	0	23.93	PASS
		1	37	24.04	PASS

		1	74	24.01	PASS
		37	0	22.83	PASS
		37	18	22.90	PASS
		37	38	22.90	PASS
		75	0	22.91	PASS
	MCH	1	0	23.96	PASS
		1	37	23.99	PASS
		1	74	23.90	PASS
		37	0	22.86	PASS
		37	18	22.88	PASS
		37	38	22.82	PASS
		75	0	22.85	PASS
	HCH	1	0	23.91	PASS
		1	37	23.91	PASS
		1	74	23.89	PASS
		37	0	22.73	PASS
		37	18	22.80	PASS
		37	38	22.75	PASS
		75	0	22.84	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.79	PASS
		1	49	25.01	PASS
		1	99	24.87	PASS
		50	0	23.79	PASS
		50	25	23.85	PASS
		50	50	23.85	PASS
		100	0	23.81	PASS
	MCH	1	0	24.88	PASS
		1	49	24.98	PASS
		1	99	24.76	PASS
		50	0	23.76	PASS
		50	25	23.84	PASS
		50	50	23.73	PASS
		100	0	23.76	PASS
	HCH	1	0	24.56	PASS
		1	49	24.73	PASS
		1	99	24.65	PASS
		50	0	23.71	PASS

		50	25	23.78	PASS
		50	50	23.72	PASS
		100	0	23.72	PASS
16QAM	LCH	1	0	23.92	PASS
		1	49	24.12	PASS
		1	99	23.94	PASS
		50	0	22.81	PASS
		50	25	22.89	PASS
		50	50	22.87	PASS
		100	0	22.85	PASS
	MCH	1	0	24.06	PASS
		1	49	24.14	PASS
		1	99	23.99	PASS
		50	0	22.86	PASS
		50	25	22.90	PASS
		50	50	22.85	PASS
		100	0	22.77	PASS
	HCH	1	0	23.80	PASS
		1	49	23.94	PASS
		1	99	23.84	PASS
		50	0	22.80	PASS
		50	25	22.86	PASS
		50	50	22.83	PASS
		100	0	22.78	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	3.61	<13	PASS
		1	12	3.64	<13	PASS
		1	24	3.73	<13	PASS
		12	0	4.62	<13	PASS
		12	6	4.57	<13	PASS
		12	13	4.73	<13	PASS
		25	0	4.72	<13	PASS
	MCH	1	0	3.38	<13	PASS
		1	12	3.36	<13	PASS
		1	24	3.46	<13	PASS
		12	0	4.44	<13	PASS
		12	6	4.43	<13	PASS
		12	13	4.53	<13	PASS
		25	0	4.48	<13	PASS
	HCH	1	0	3.75	<13	PASS
		1	12	3.6	<13	PASS
		1	24	3.46	<13	PASS
		12	0	4.67	<13	PASS
		12	6	4.61	<13	PASS
		12	13	4.61	<13	PASS
		25	0	4.62	<13	PASS
16QAM	LCH	1	0	4.61	<13	PASS
		1	12	4.56	<13	PASS
		1	24	4.76	<13	PASS
		12	0	5.53	<13	PASS
		12	6	5.47	<13	PASS
		12	13	5.56	<13	PASS
		25	0	5.59	<13	PASS
	MCH	1	0	4.14	<13	PASS
		1	12	4.23	<13	PASS
		1	24	4.4	<13	PASS
		12	0	5.28	<13	PASS

		12	6	5.29	<13	PASS
		12	13	5.38	<13	PASS
		25	0	5.29	<13	PASS
	HCH	1	0	4.67	<13	PASS
		1	12	4.47	<13	PASS
		1	24	4.41	<13	PASS
		12	0	5.55	<13	PASS
		12	6	5.52	<13	PASS
		12	13	5.54	<13	PASS
		25	0	5.45	<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	3.57	<13	PASS
		1	24	3.61	<13	PASS
		1	49	3.69	<13	PASS
		25	0	4.71	<13	PASS
		25	12	4.75	<13	PASS
		25	25	4.77	<13	PASS
		50	0	4.75	<13	PASS
	MCH	1	0	3.2	<13	PASS
		1	24	3.31	<13	PASS
		1	49	3.44	<13	PASS
		25	0	4.37	<13	PASS
		25	12	4.43	<13	PASS
		25	25	4.5	<13	PASS
		50	0	4.46	<13	PASS
	HCH	1	0	3.68	<13	PASS
		1	24	3.52	<13	PASS
		1	49	3.32	<13	PASS
		25	0	4.61	<13	PASS
		25	12	4.6	<13	PASS
		25	25	4.59	<13	PASS
		50	0	4.64	<13	PASS
16QAM	LCH	1	0	4.47	<13	PASS
		1	24	4.51	<13	PASS
		1	49	4.57	<13	PASS
		25	0	5.6	<13	PASS
		25	12	5.6	<13	PASS

		25	25	5.58	<13	PASS
		50	0	5.58	<13	PASS
	MCH	1	0	4.21	<13	PASS
		1	24	4.35	<13	PASS
		1	49	4.37	<13	PASS
		25	0	5.28	<13	PASS
		25	12	5.34	<13	PASS
		25	25	5.34	<13	PASS
		50	0	5.32	<13	PASS
	HCH	1	0	4.66	<13	PASS
		1	24	4.48	<13	PASS
		1	49	4.36	<13	PASS
		25	0	5.49	<13	PASS
		25	12	5.5	<13	PASS
		25	25	5.49	<13	PASS
		50	0	5.49	<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	3.6	<13	PASS
		1	37	3.65	<13	PASS
		1	74	3.69	<13	PASS
		37	0	4.71	<13	PASS
		37	18	4.71	<13	PASS
		37	38	4.71	<13	PASS
		75	0	5.11	<13	PASS
	MCH	1	0	3.29	<13	PASS
		1	37	3.3	<13	PASS
		1	74	3.69	<13	PASS
		37	0	4.27	<13	PASS
		37	18	4.3	<13	PASS
		37	38	4.47	<13	PASS
		75	0	4.84	<13	PASS
	HCH	1	0	3.7	<13	PASS
		1	37	3.54	<13	PASS
		1	74	3.35	<13	PASS
		37	0	4.61	<13	PASS
		37	18	4.57	<13	PASS
		37	38	4.57	<13	PASS

		75	0	5.01	<13	PASS
16QAM	LCH	1	0	4.53	<13	PASS
		1	37	4.66	<13	PASS
		1	74	4.67	<13	PASS
		37	0	5.61	<13	PASS
		37	18	5.58	<13	PASS
		37	38	5.64	<13	PASS
		75	0	5.84	<13	PASS
	MCH	1	0	4.3	<13	PASS
		1	37	4.39	<13	PASS
		1	74	4.64	<13	PASS
		37	0	5.28	<13	PASS
		37	18	5.27	<13	PASS
		37	38	5.42	<13	PASS
		75	0	5.58	<13	PASS
	HCH	1	0	4.62	<13	PASS
		1	37	4.57	<13	PASS
		1	74	4.49	<13	PASS
		37	0	5.5	<13	PASS
		37	18	5.43	<13	PASS
		37	38	5.47	<13	PASS
		75	0	5.71	<13	PASS

Channel Bandwidth: 20 MHz

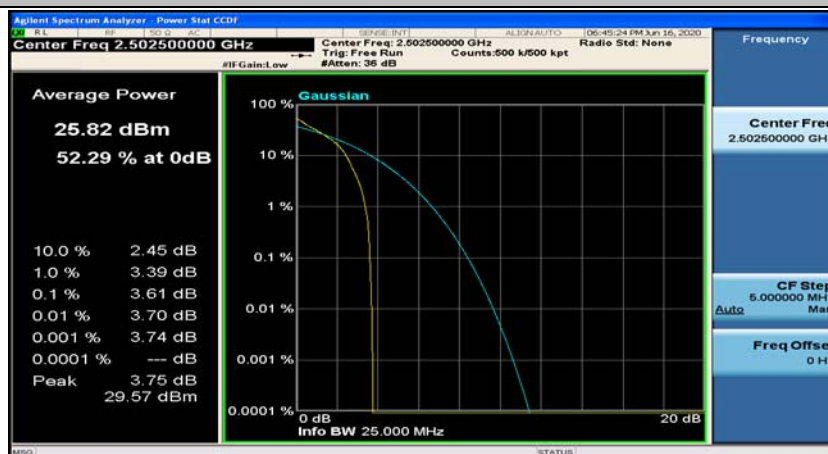
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.65	<13	PASS
		1	49	3.6	<13	PASS
		1	99	3.58	<13	PASS
		50	0	4.82	<13	PASS
		50	25	4.76	<13	PASS
		50	50	4.74	<13	PASS
		100	0	5.09	<13	PASS
	MCH	1	0	3.39	<13	PASS
		1	49	3.37	<13	PASS
		1	99	3.77	<13	PASS
		50	0	4.48	<13	PASS
		50	25	4.42	<13	PASS
		50	50	4.68	<13	PASS
		100	0	4.96	<13	PASS

	HCH	1	0	3.86	<13	PASS
		1	49	3.61	<13	PASS
		1	99	3.53	<13	PASS
		50	0	4.76	<13	PASS
		50	25	4.64	<13	PASS
		50	50	4.72	<13	PASS
		100	0	5.04	<13	PASS
16QAM	LCH	1	0	4.52	<13	PASS
		1	49	4.57	<13	PASS
		1	99	4.44	<13	PASS
		50	0	5.67	<13	PASS
		50	25	5.59	<13	PASS
		50	50	5.59	<13	PASS
		100	0	5.89	<13	PASS
	MCH	1	0	4.32	<13	PASS
		1	49	4.22	<13	PASS
		1	99	4.6	<13	PASS
		50	0	5.33	<13	PASS
		50	25	5.28	<13	PASS
		50	50	5.51	<13	PASS
		100	0	5.72	<13	PASS
	HCH	1	0	4.78	<13	PASS
		1	49	4.55	<13	PASS
		1	99	4.47	<13	PASS
		50	0	5.6	<13	PASS
		50	25	5.5	<13	PASS
		50	50	5.59	<13	PASS
		100	0	5.83	<13	PASS

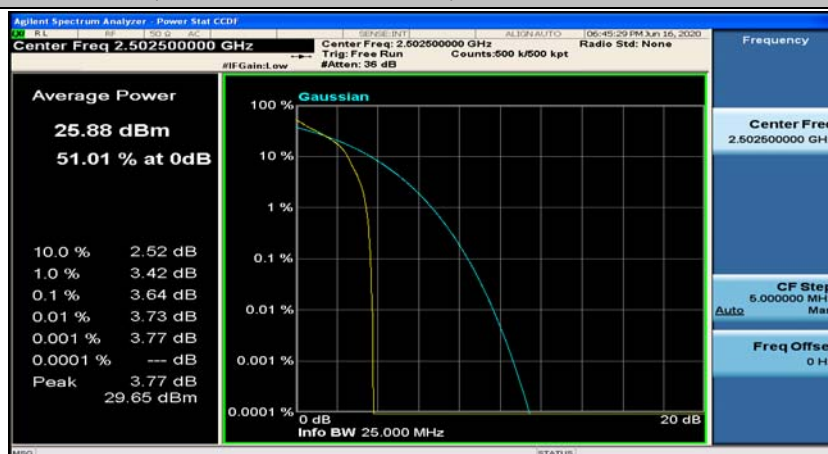
Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



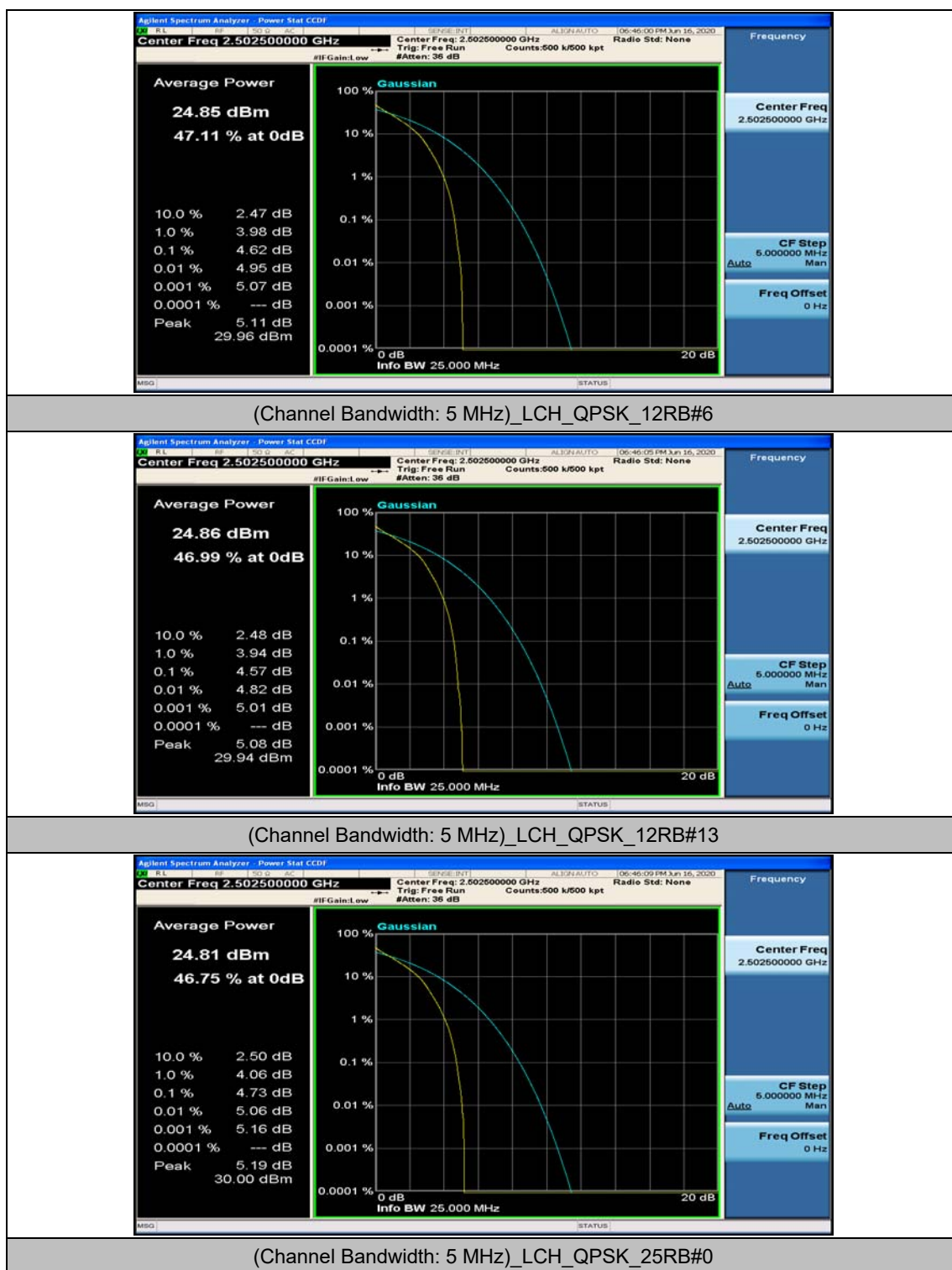
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

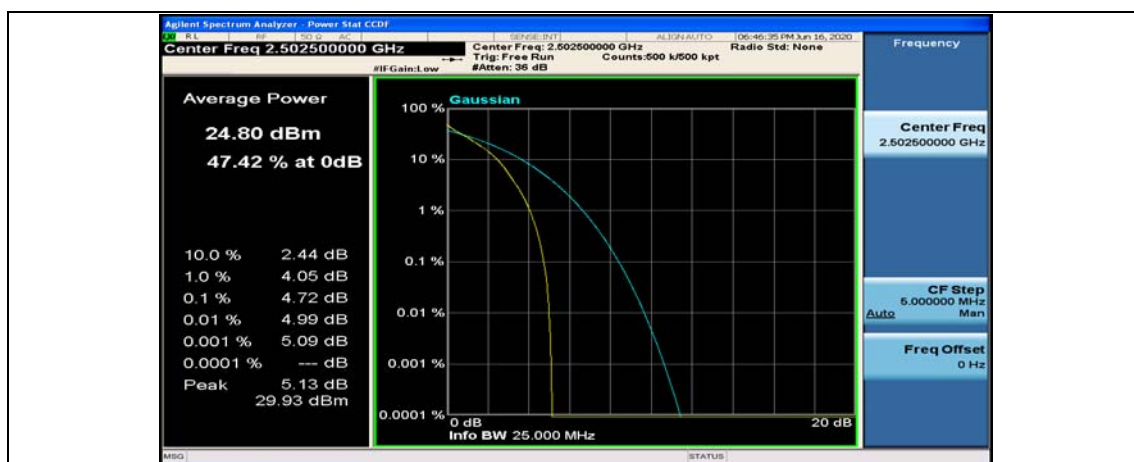


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0

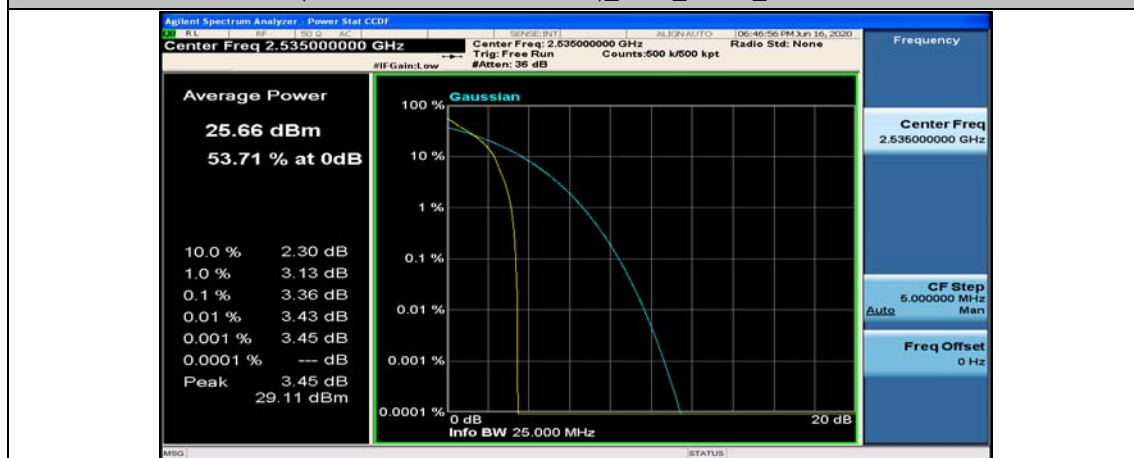




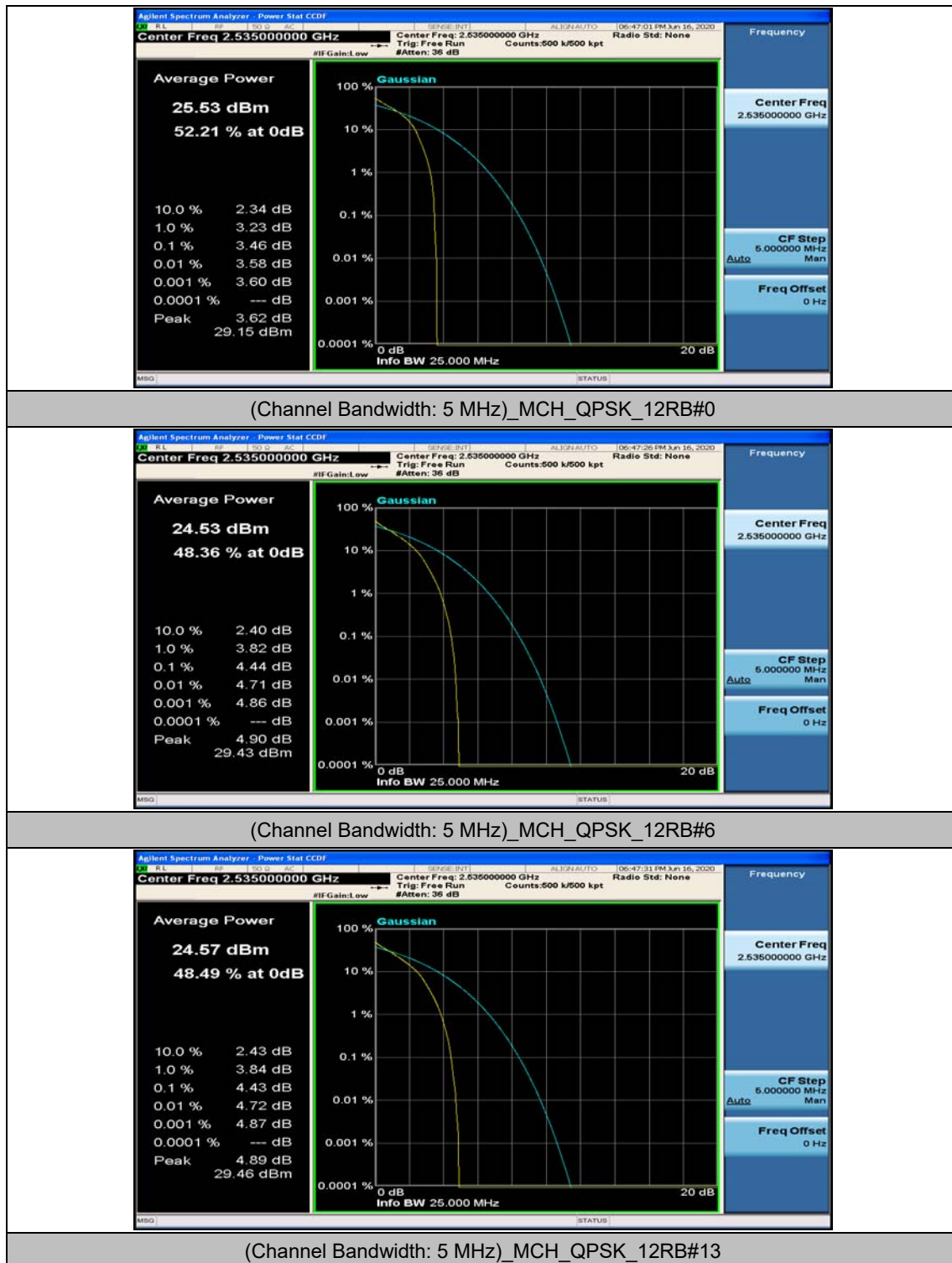
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

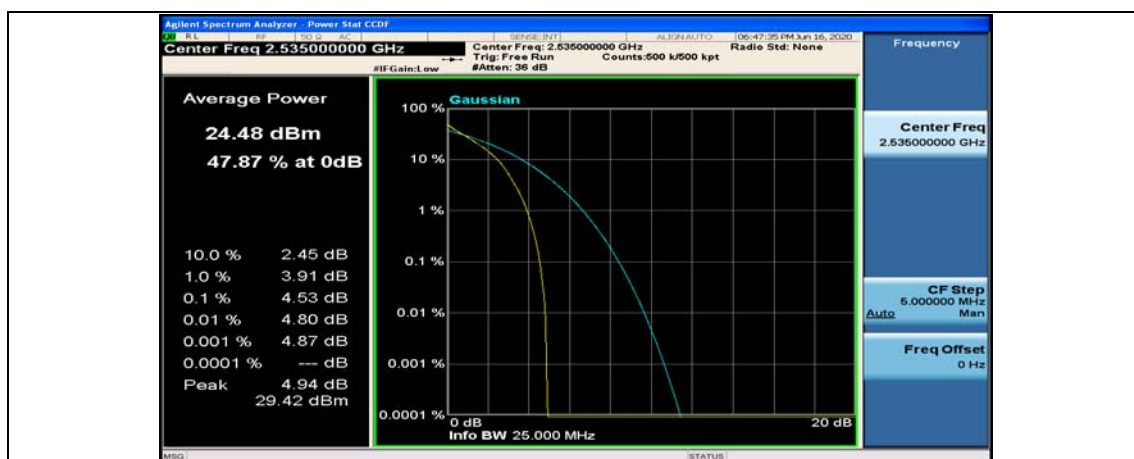


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

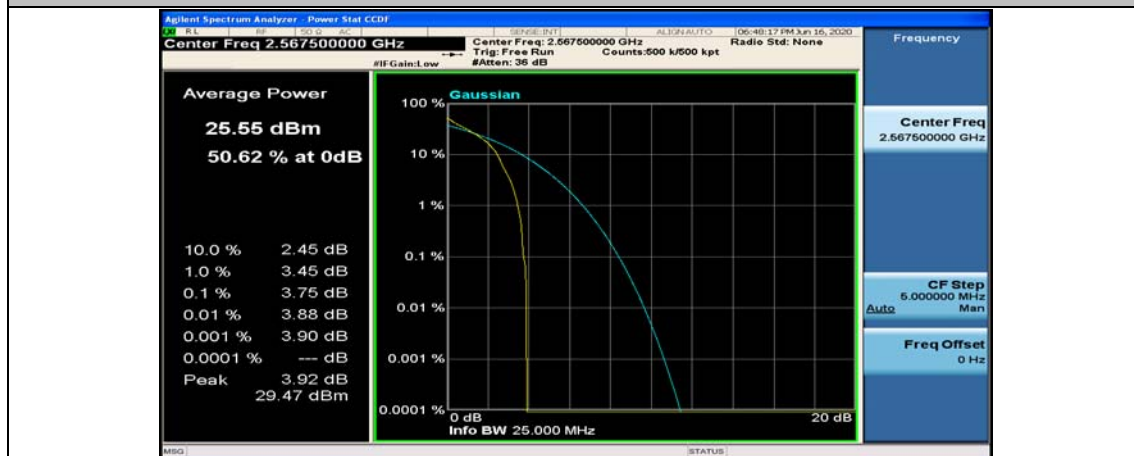




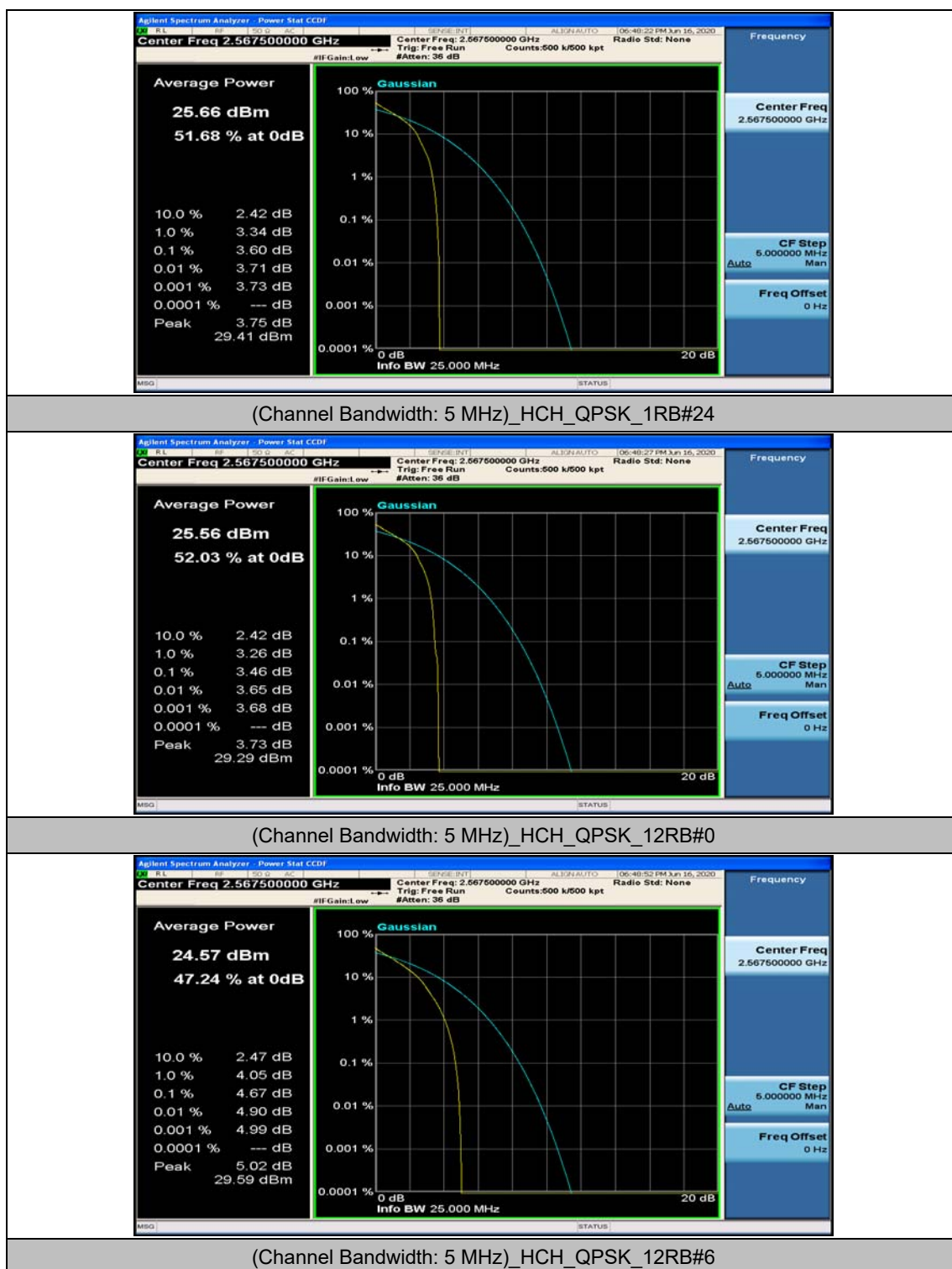
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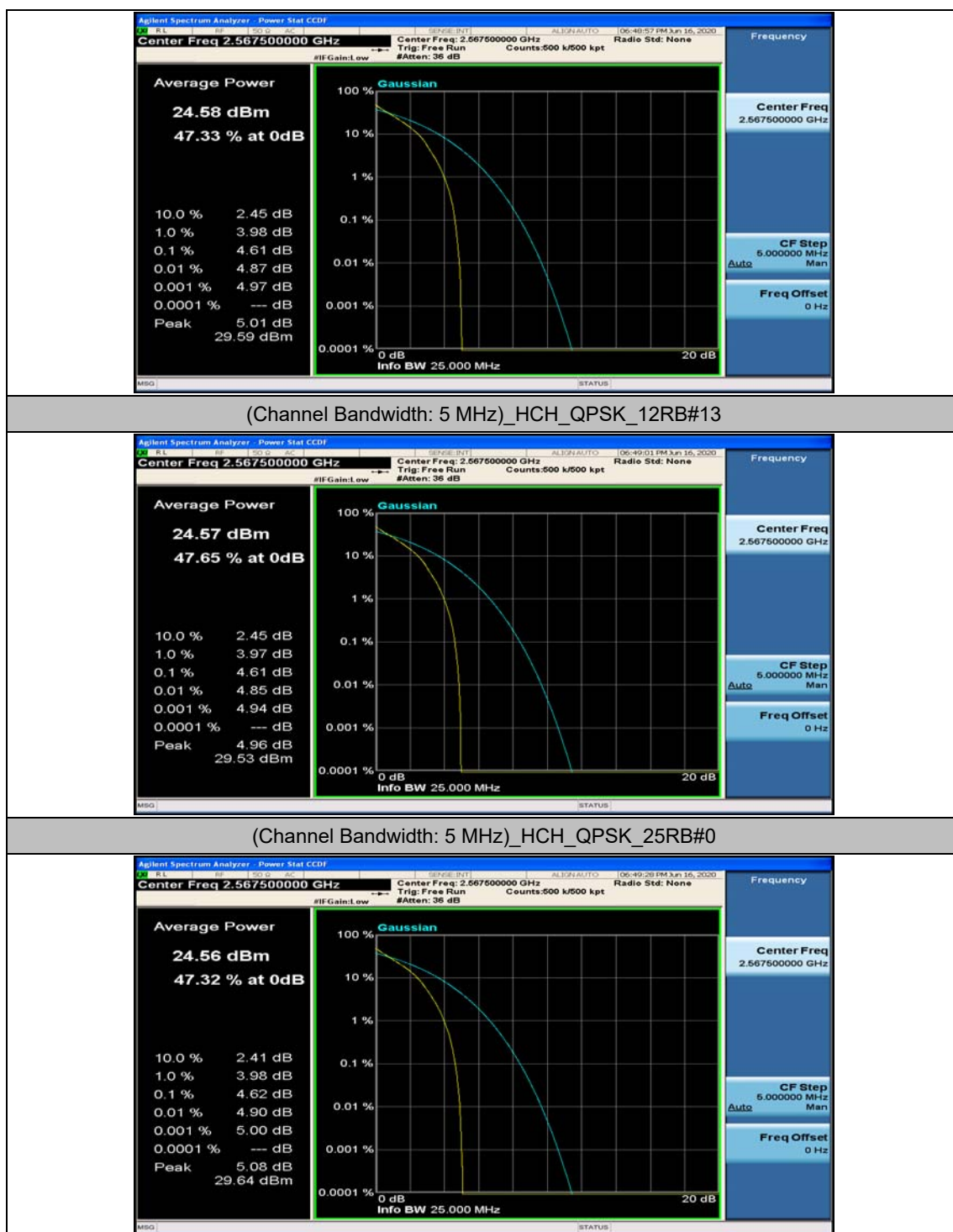


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12





(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



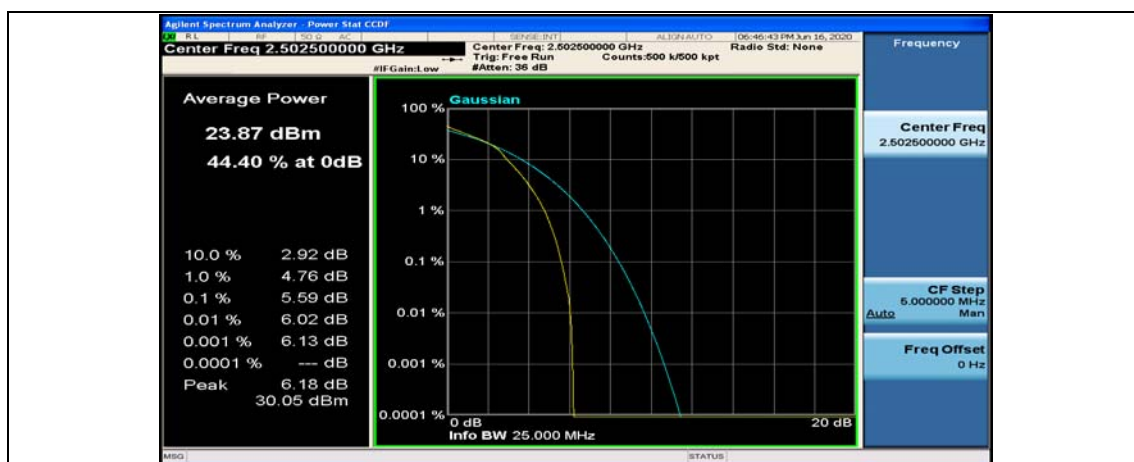
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(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



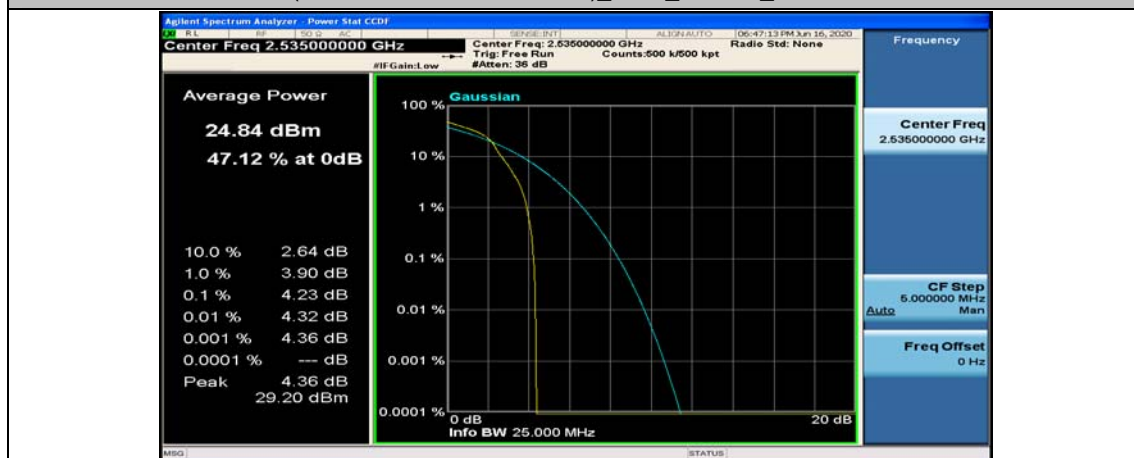
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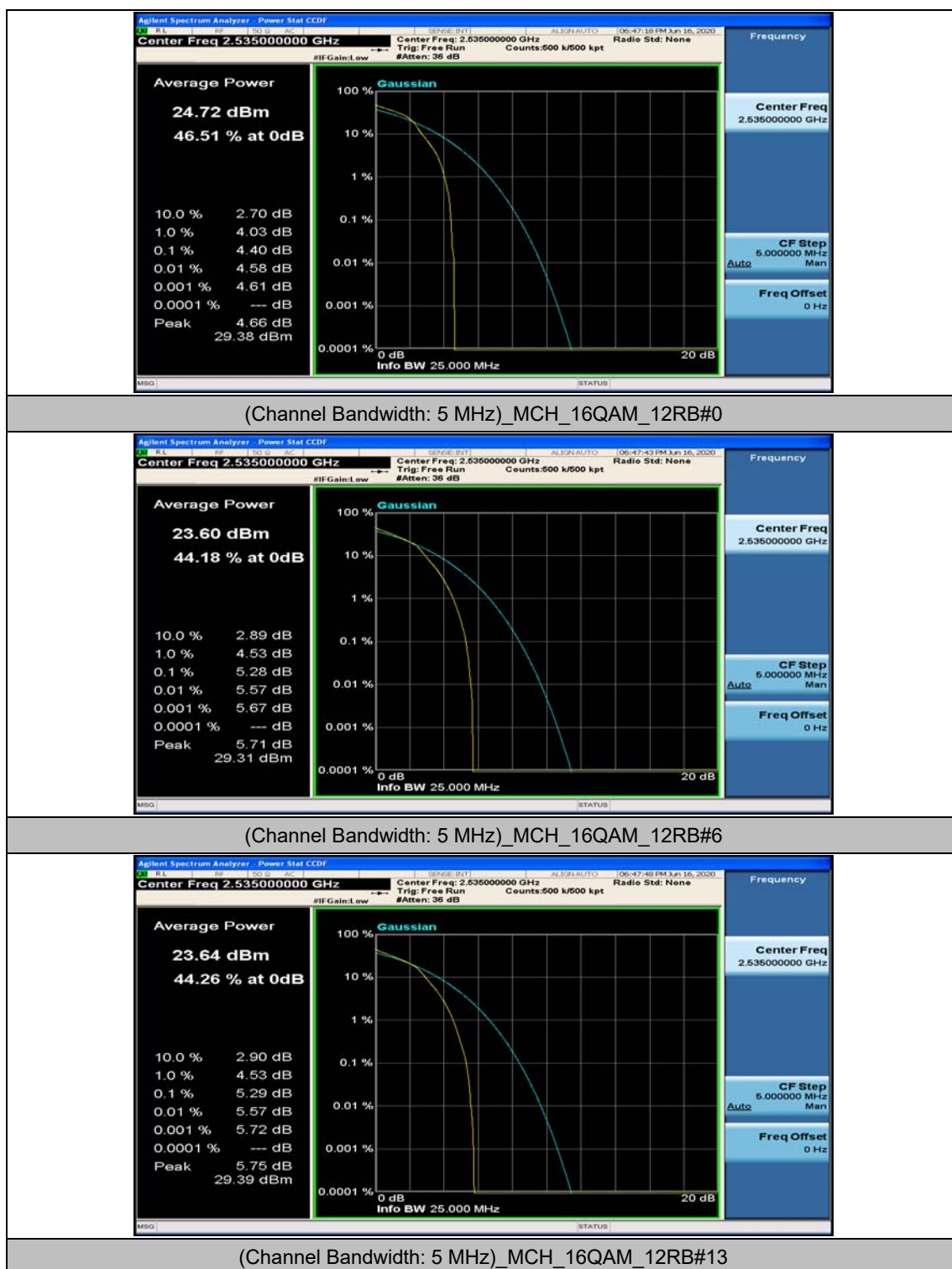
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

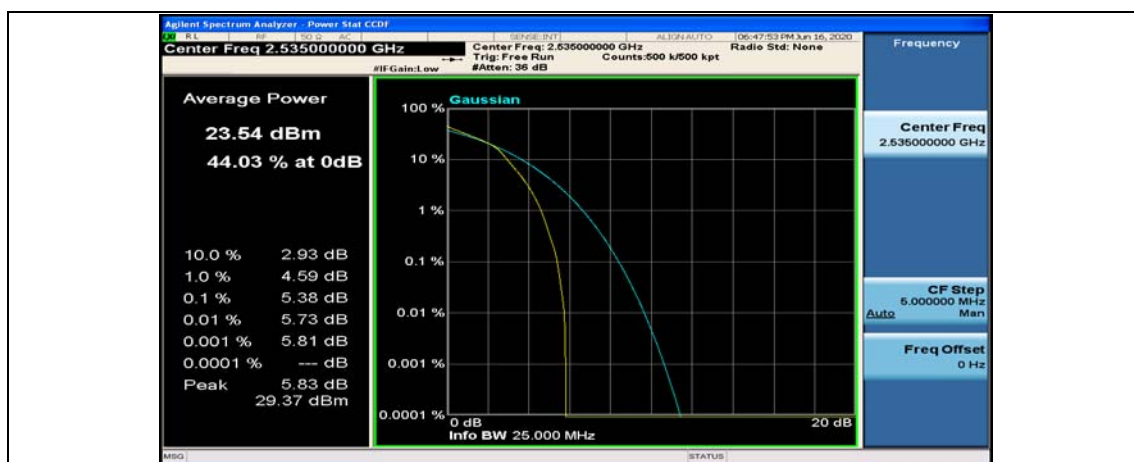


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

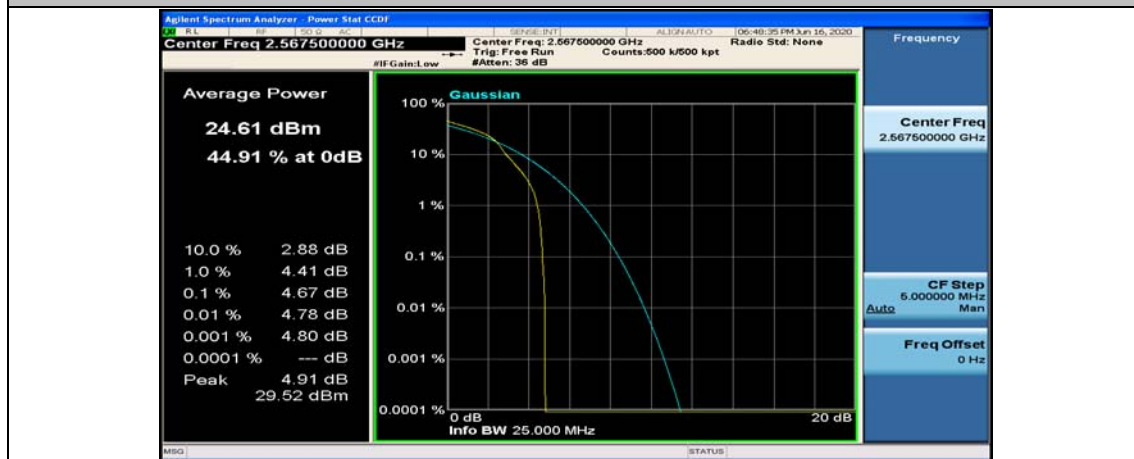




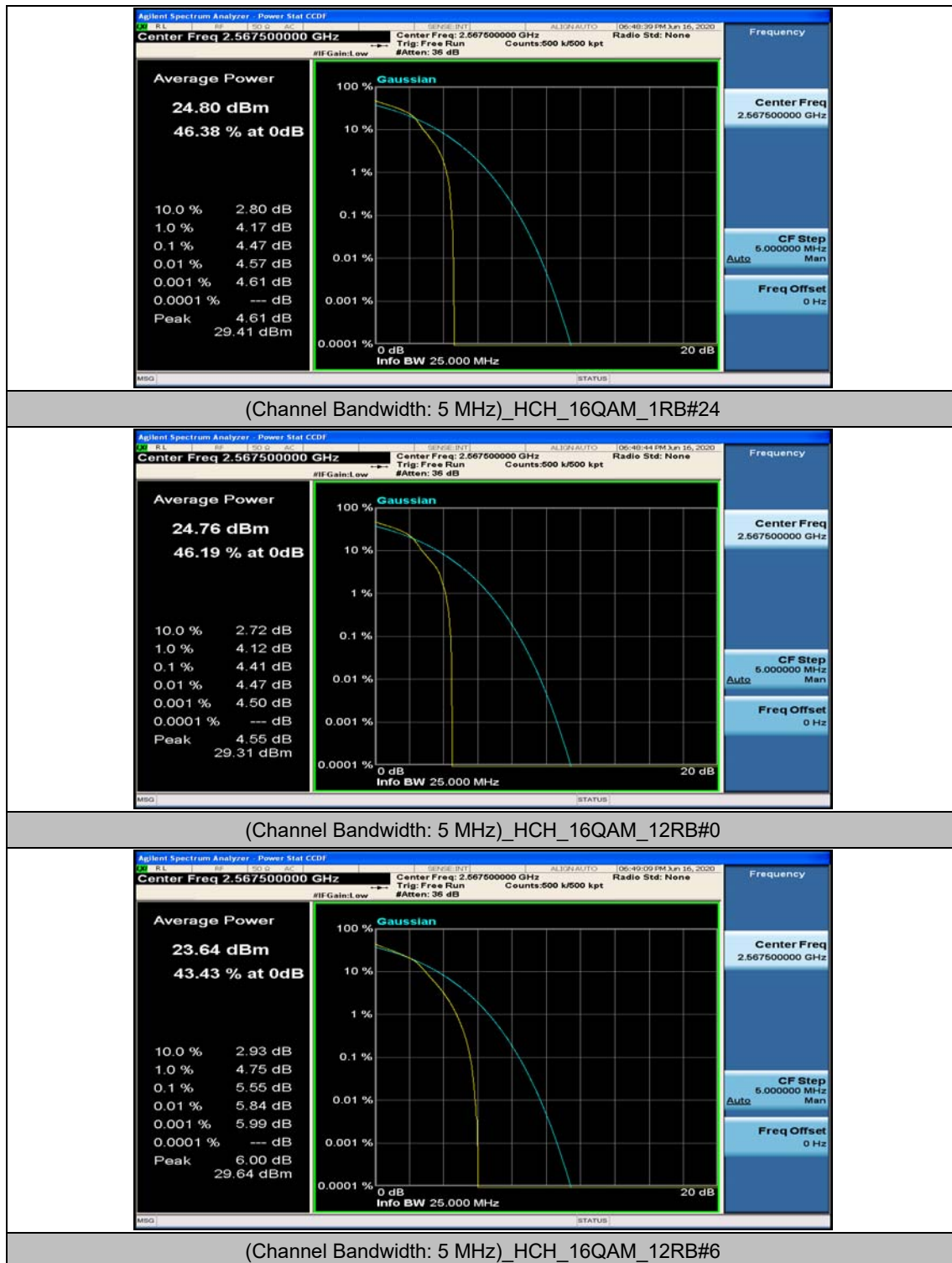
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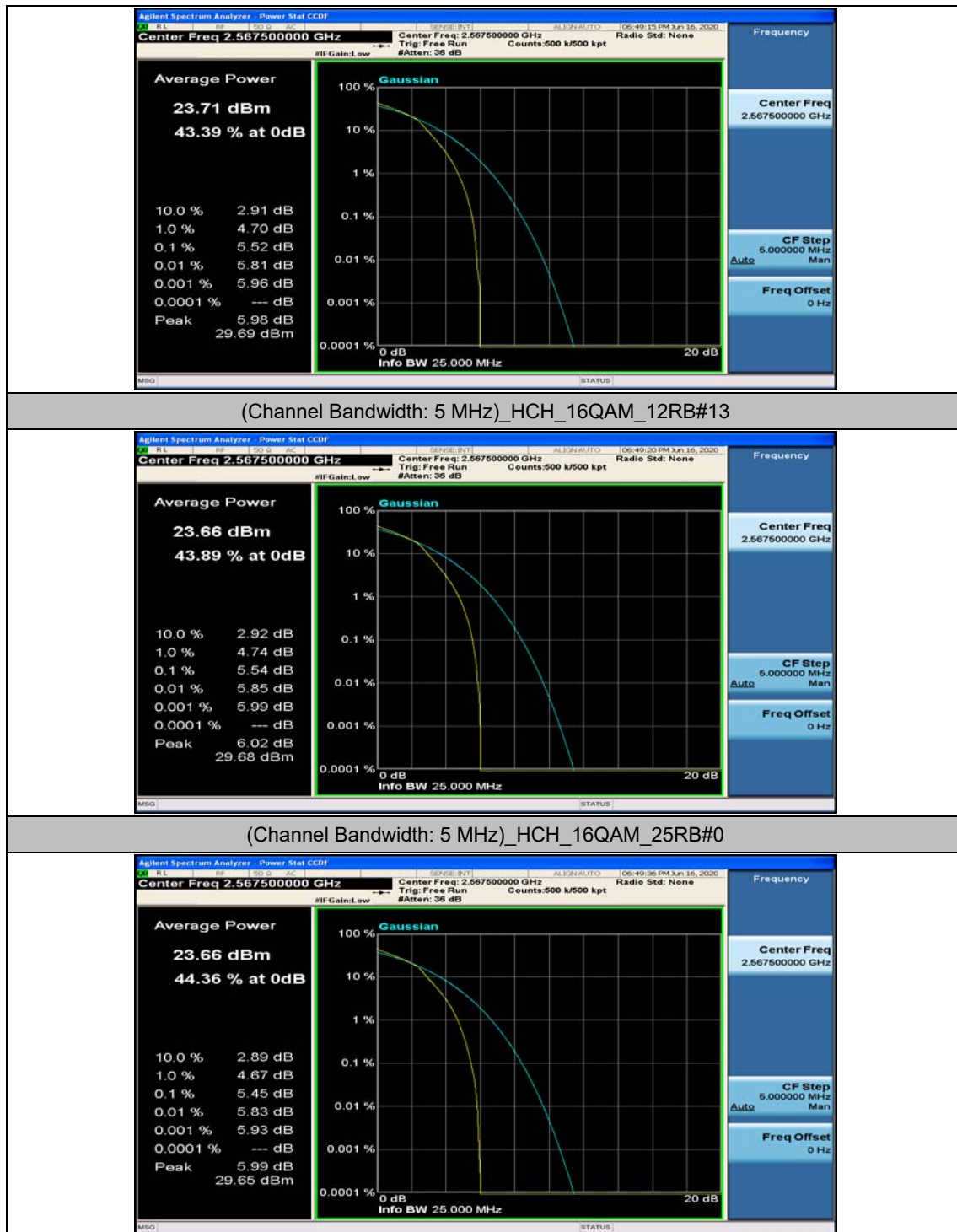


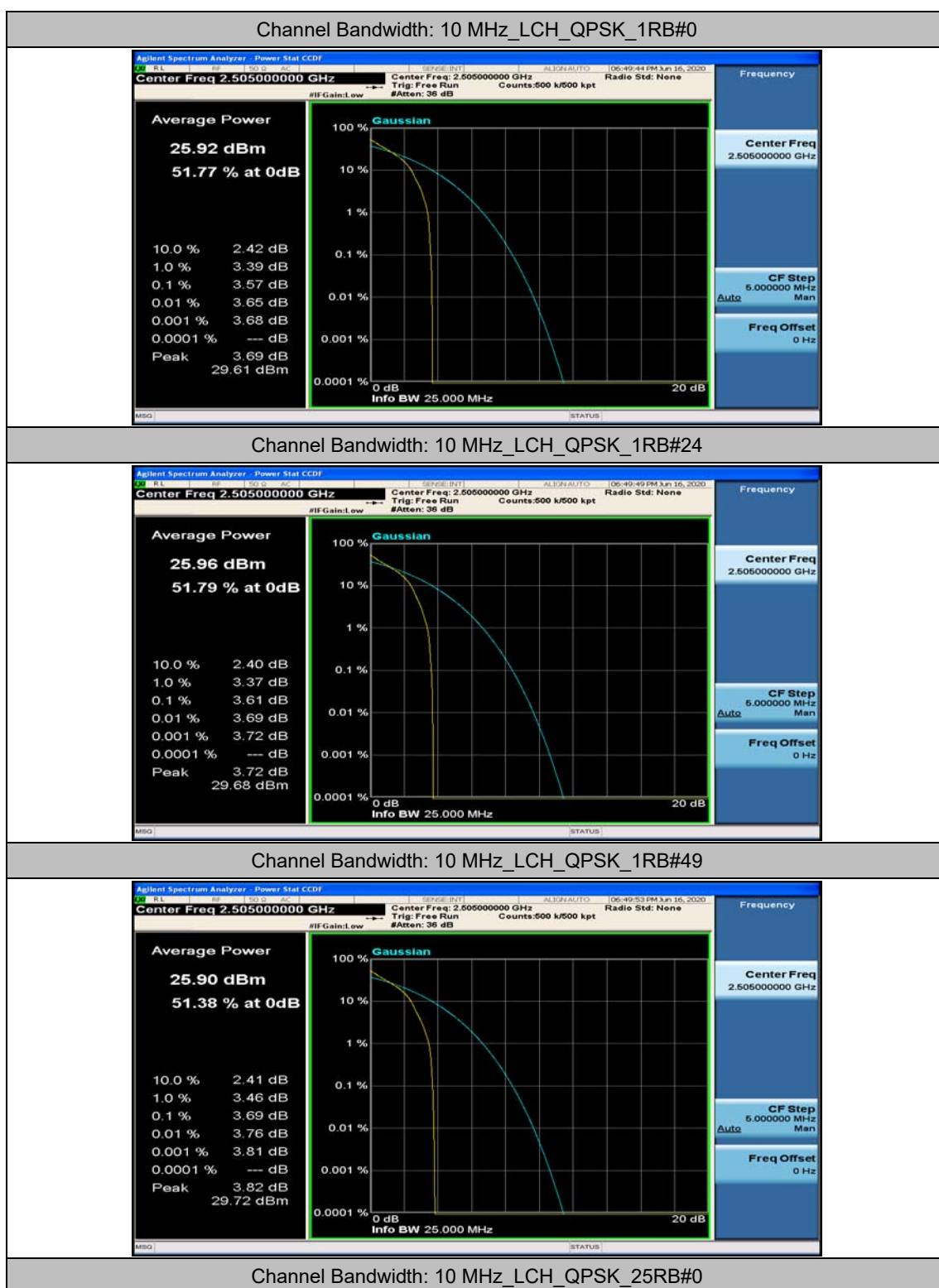
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

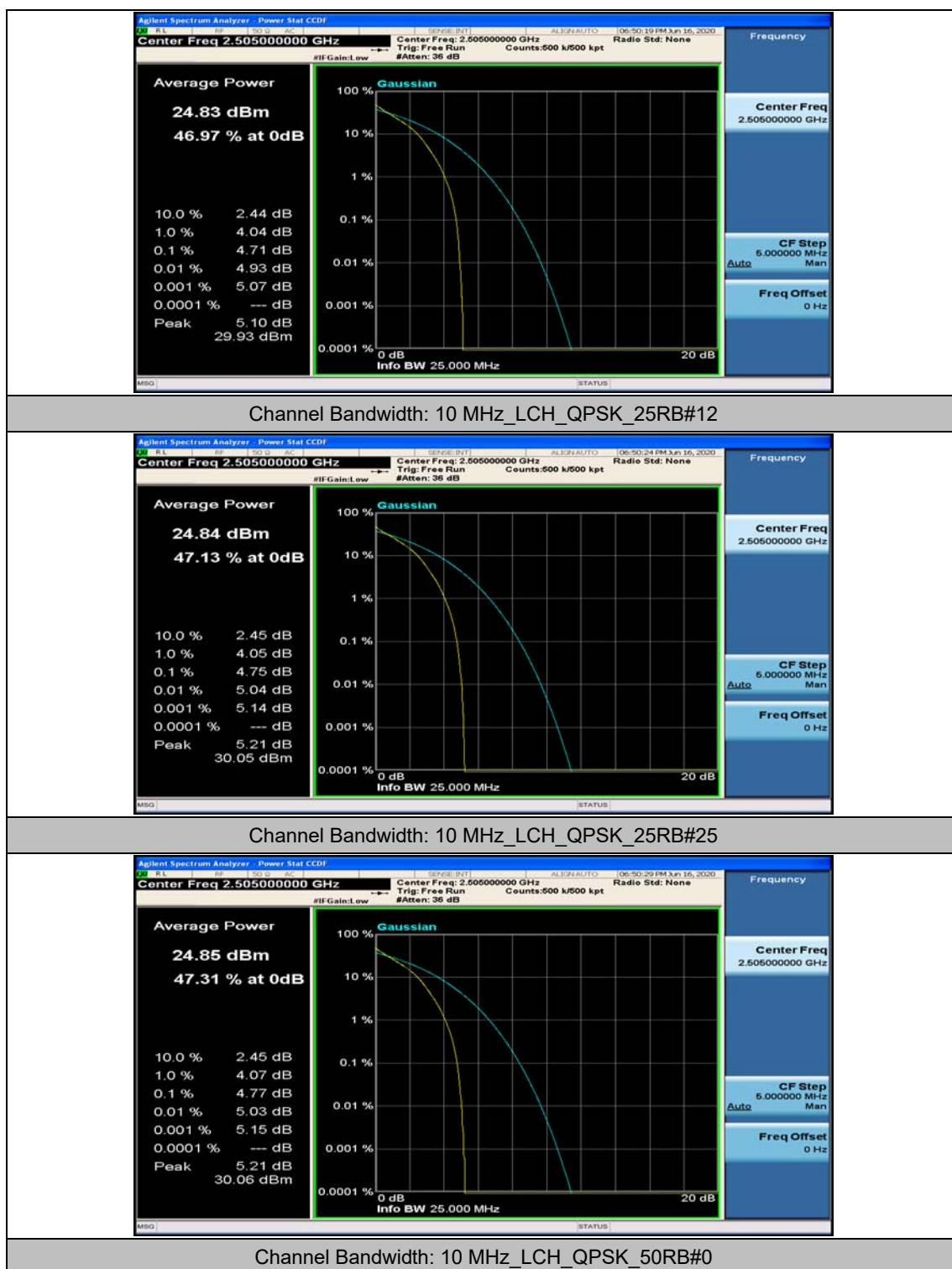


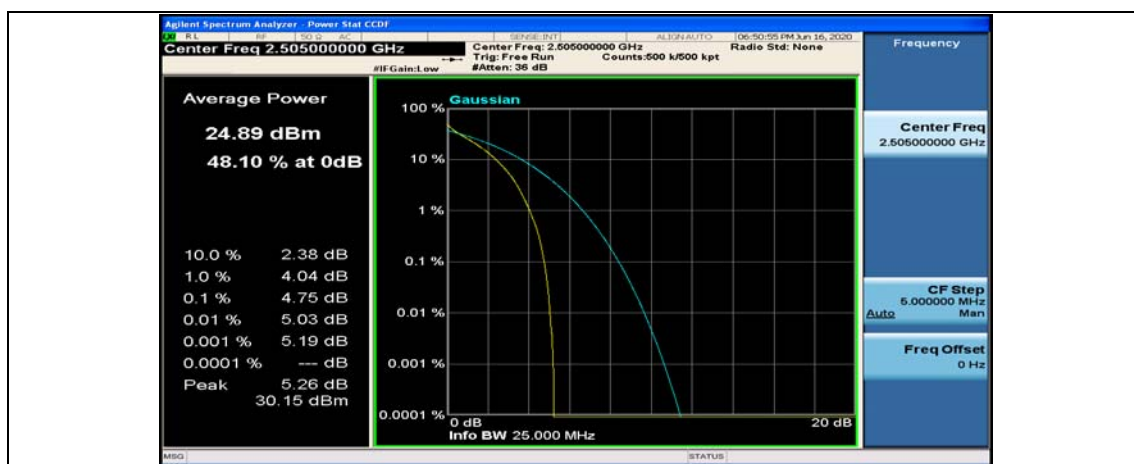
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12





Channel Bandwidth: 10 MHz

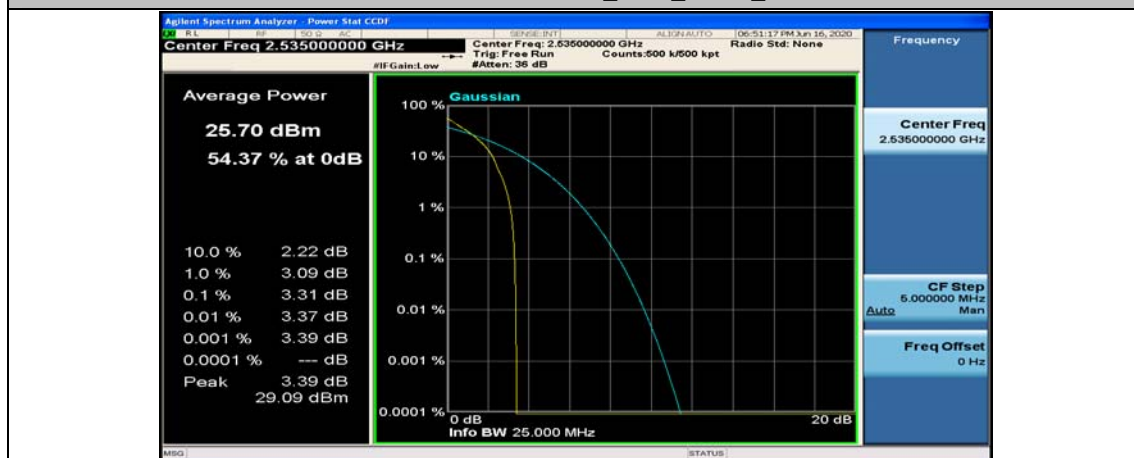




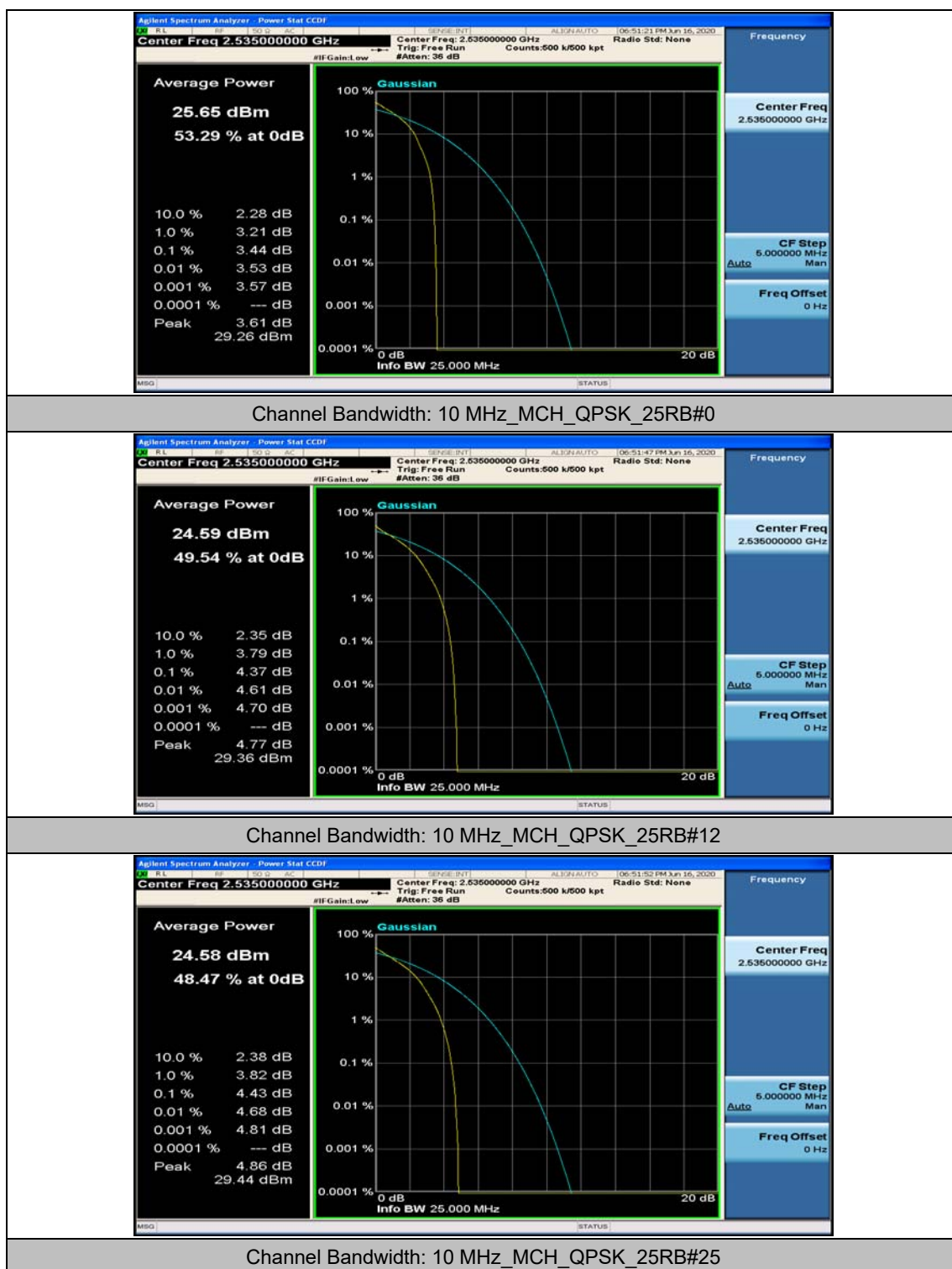
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

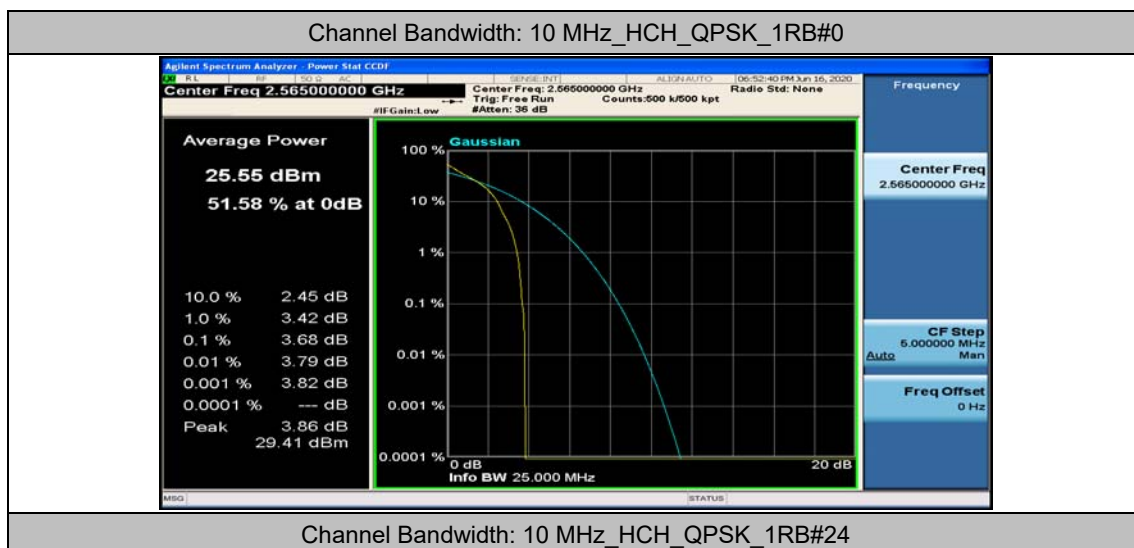
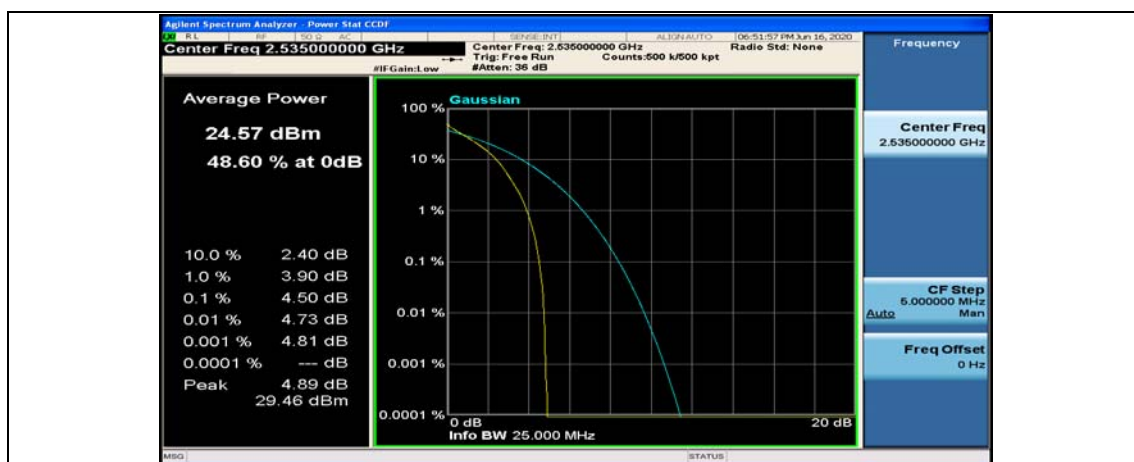


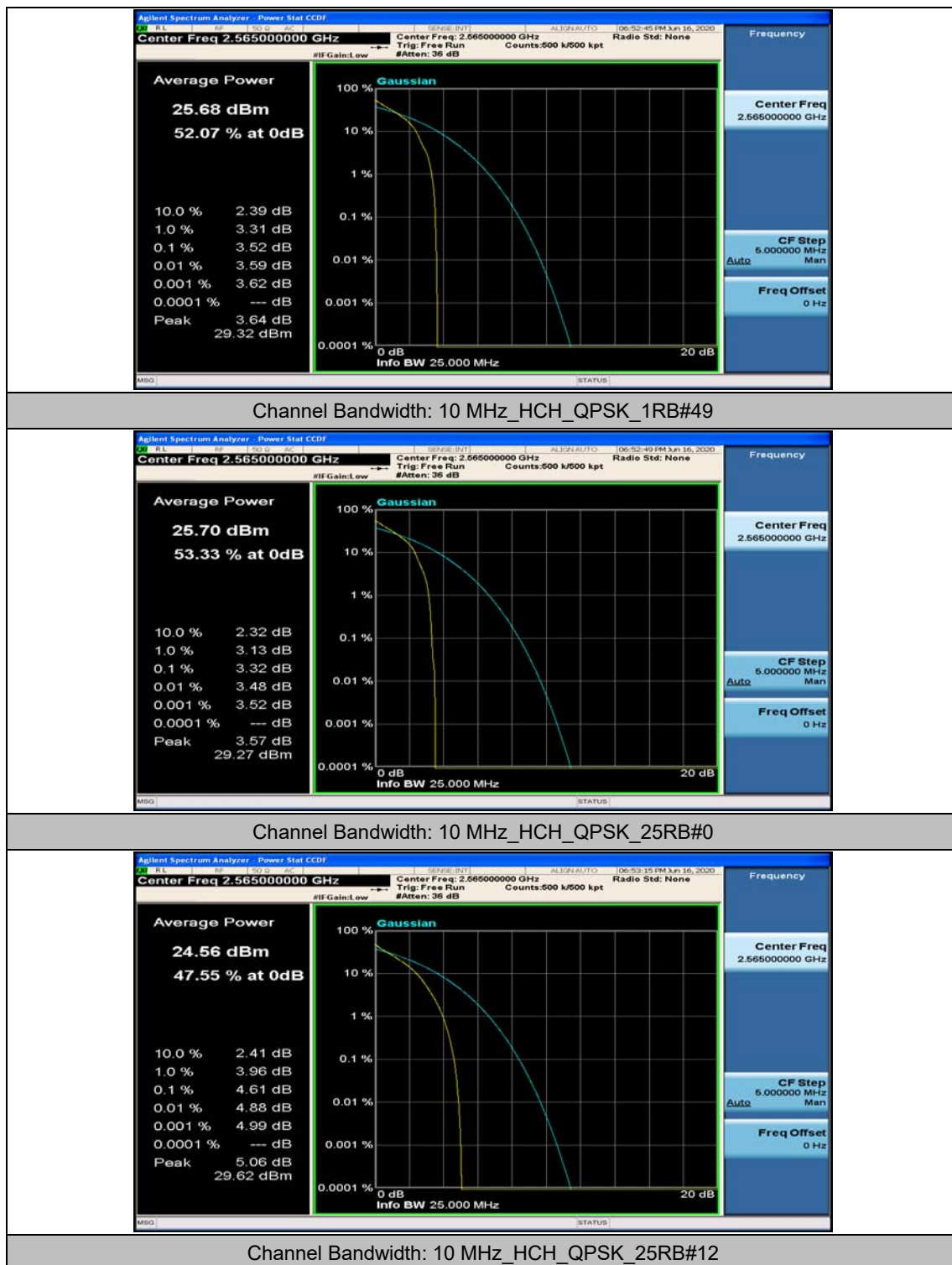
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

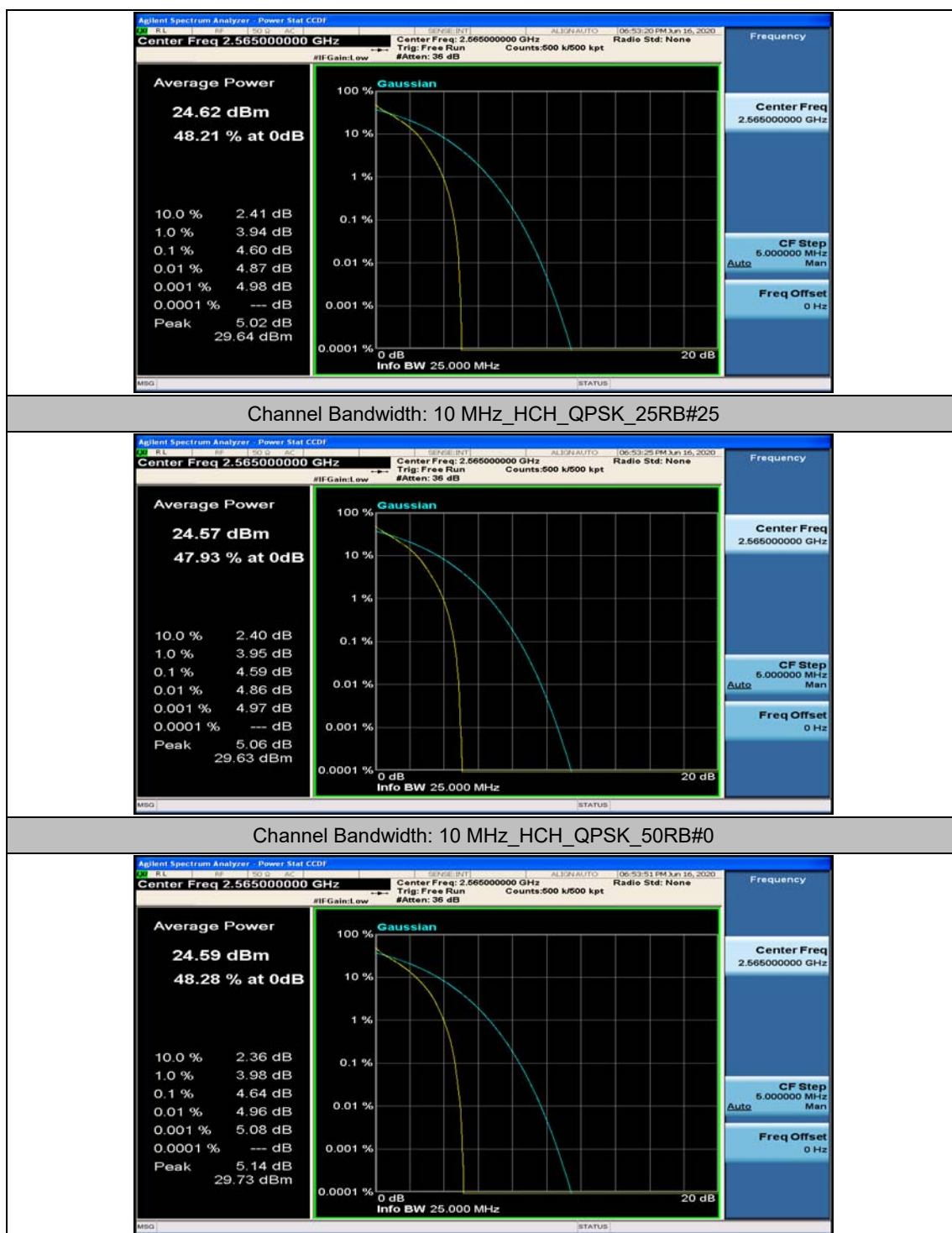


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

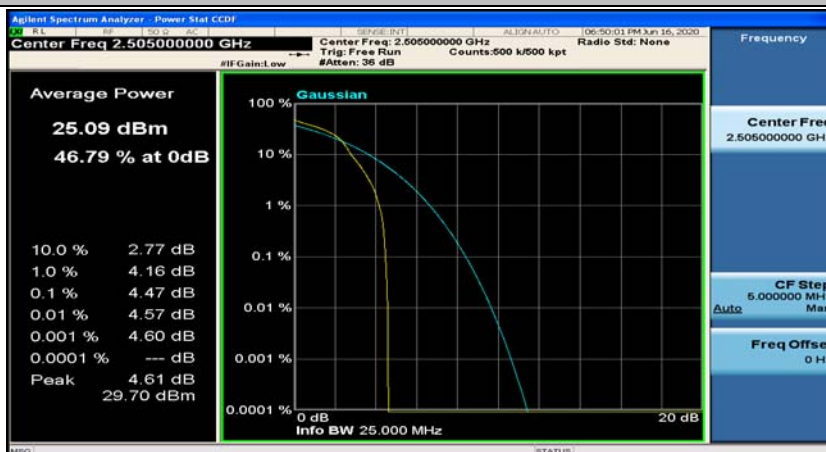








Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



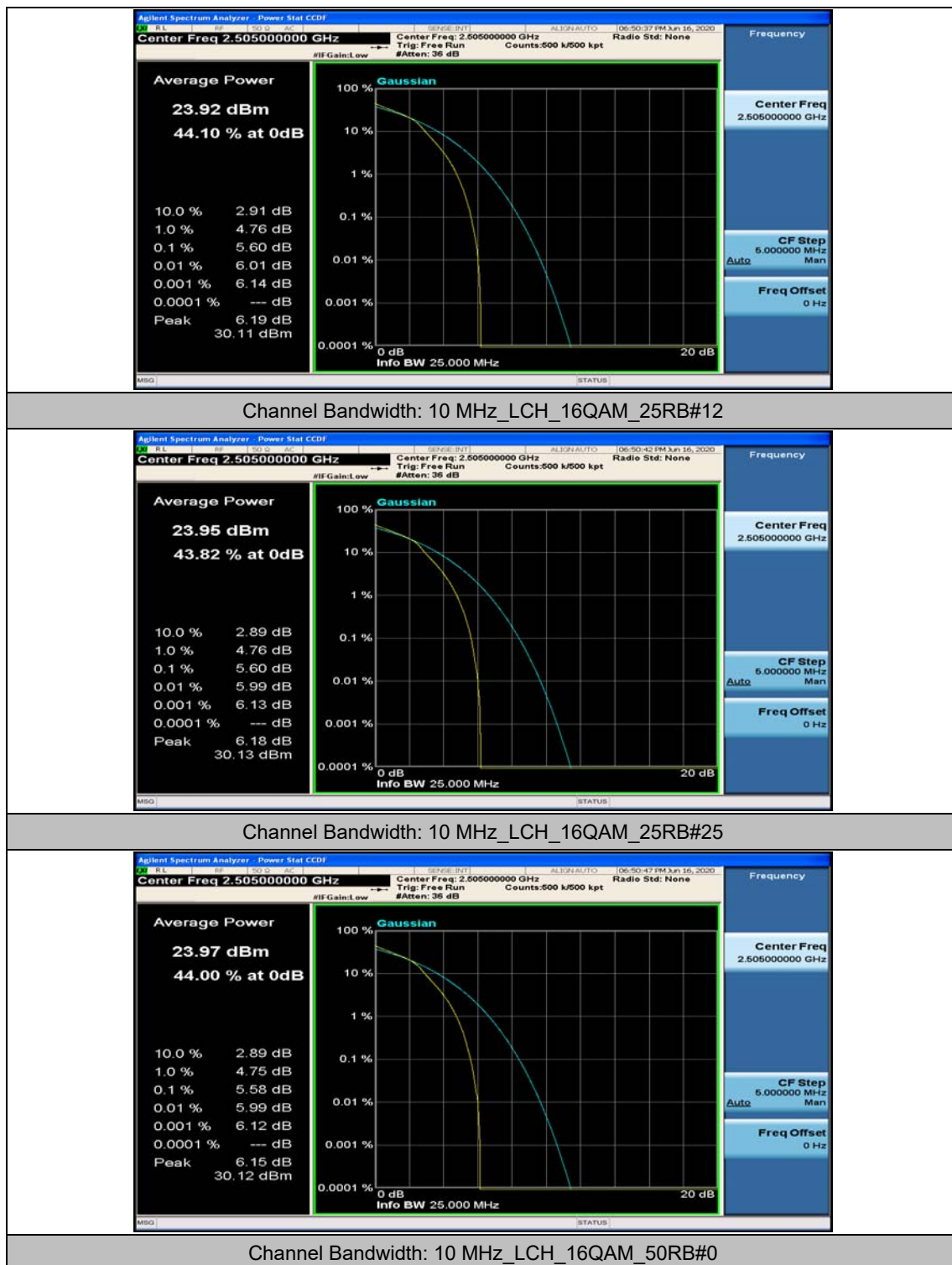
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

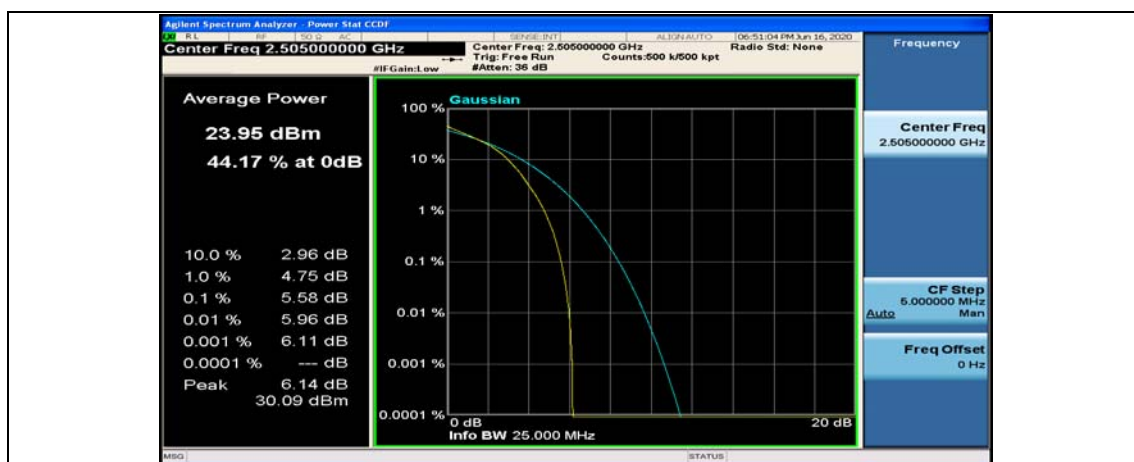


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

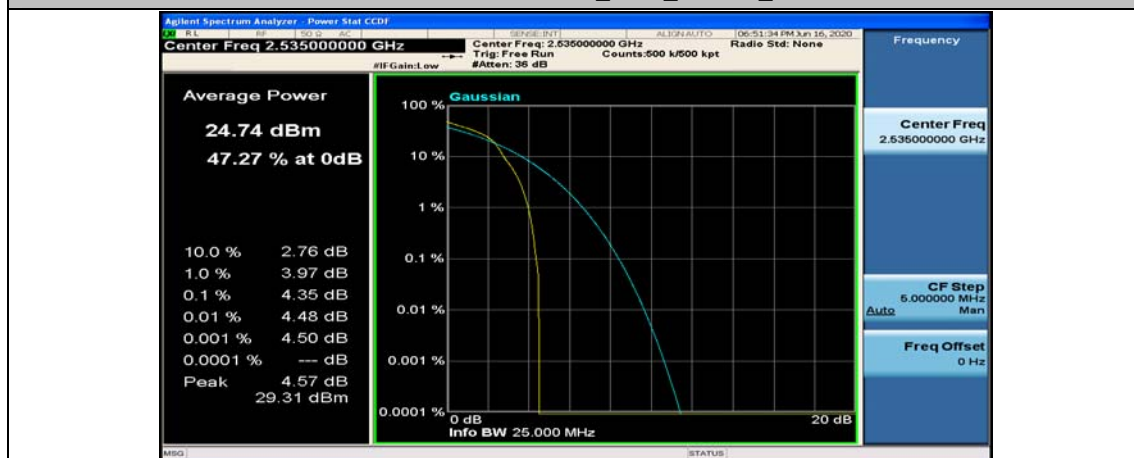




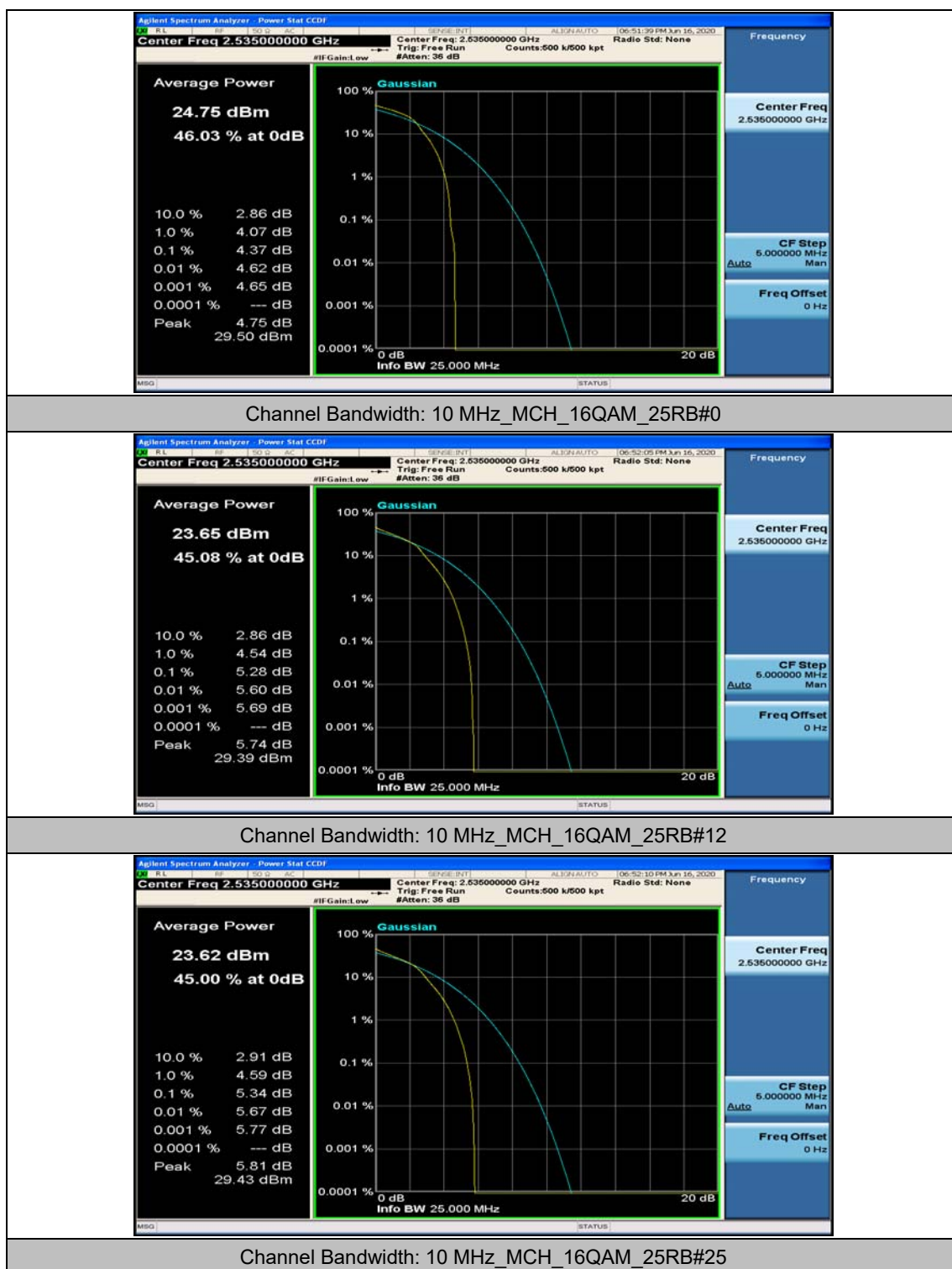
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

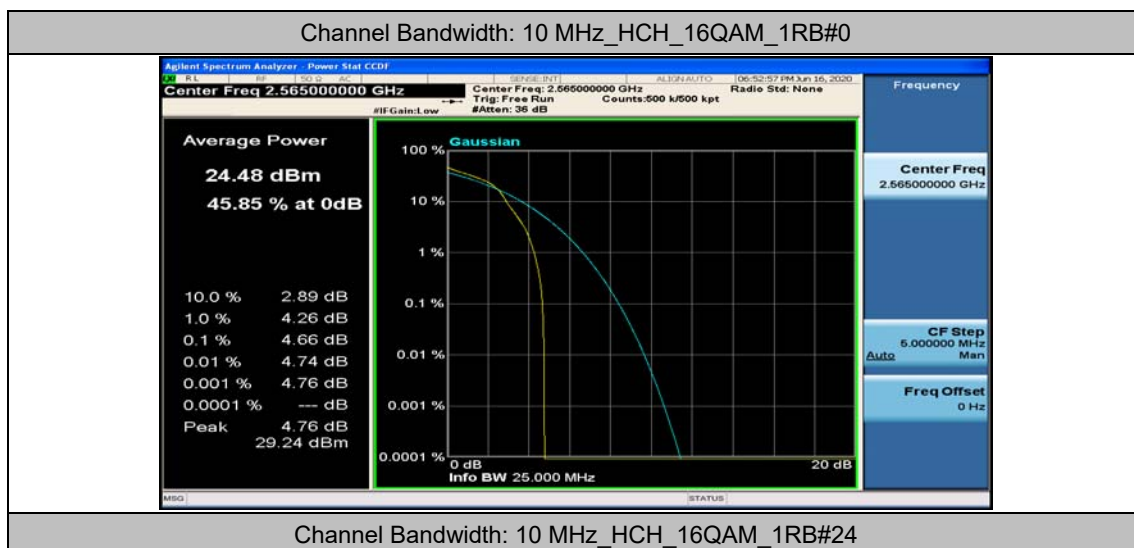
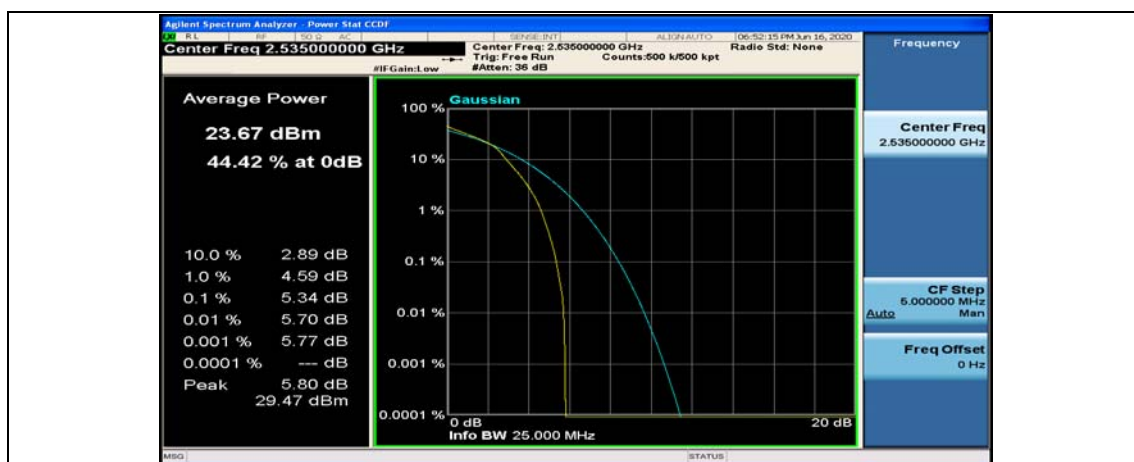


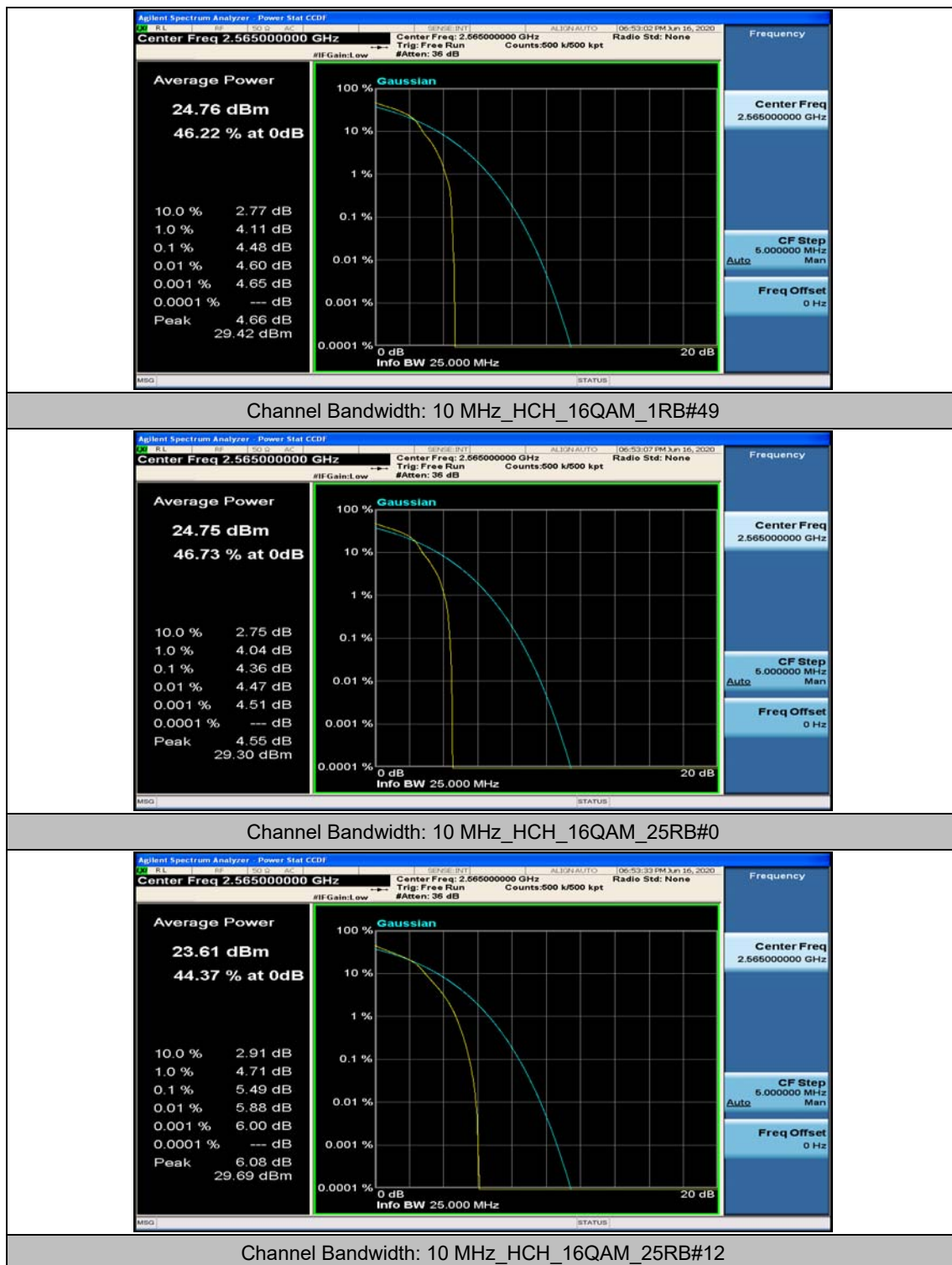
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

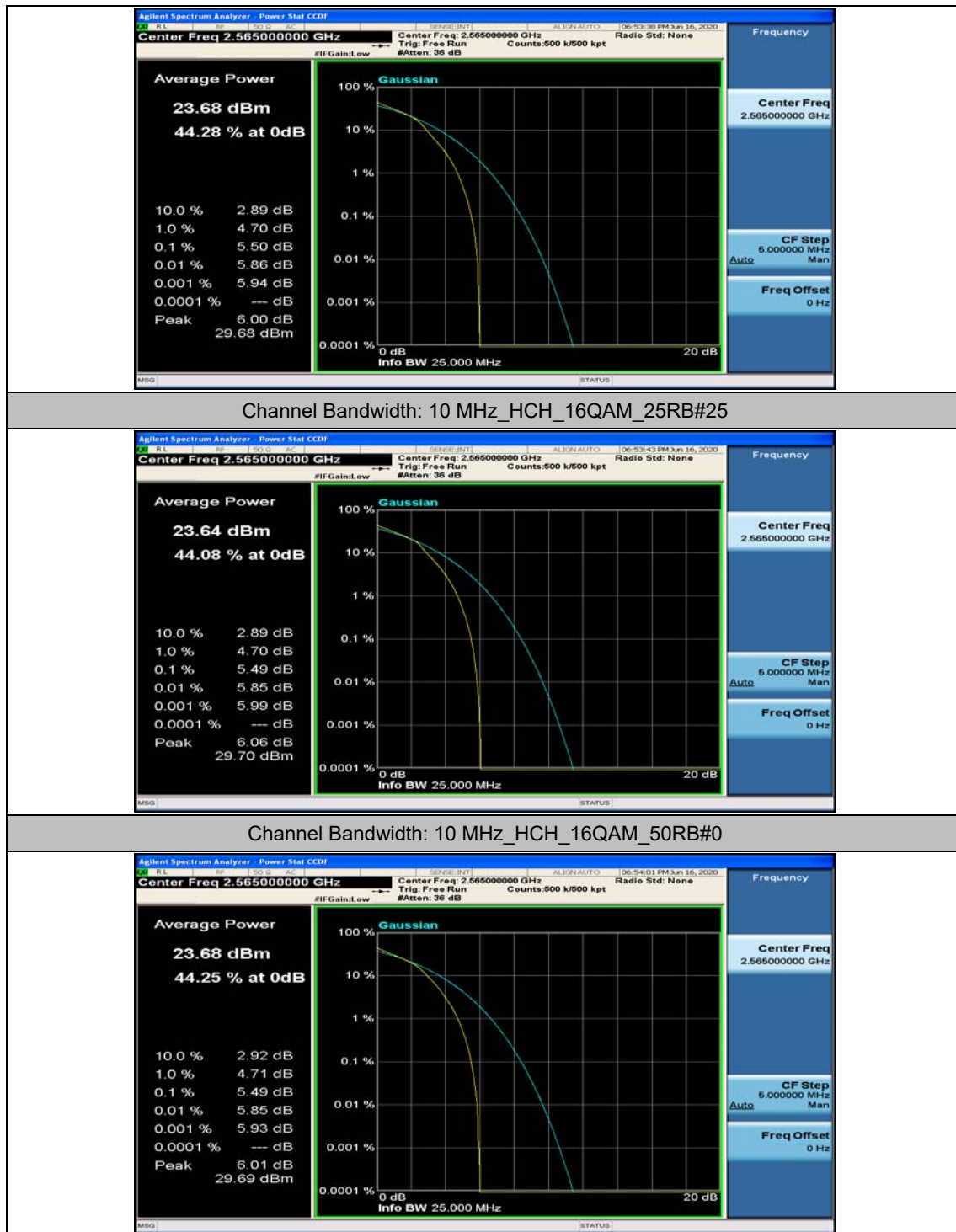


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49









Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0



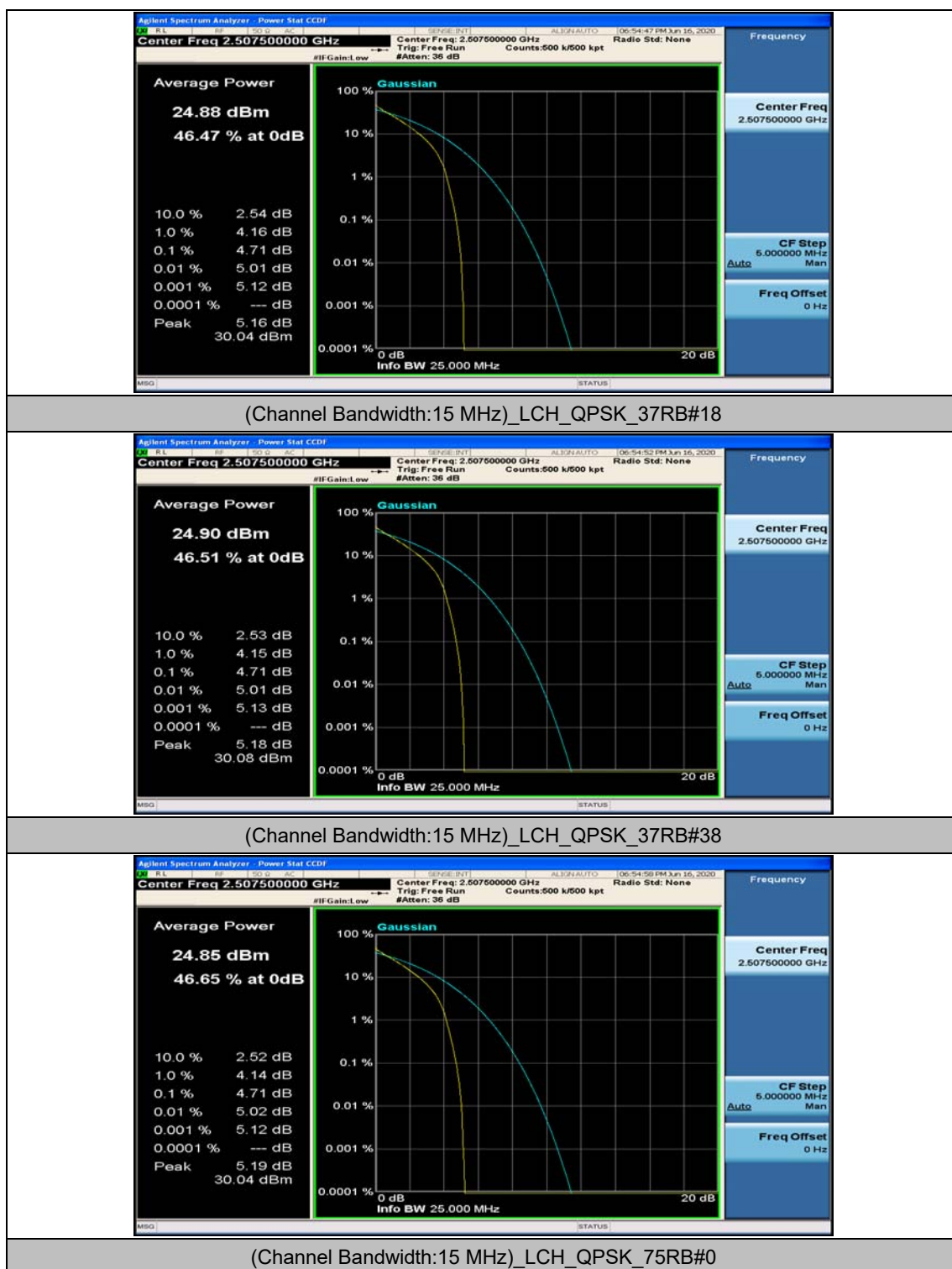
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37

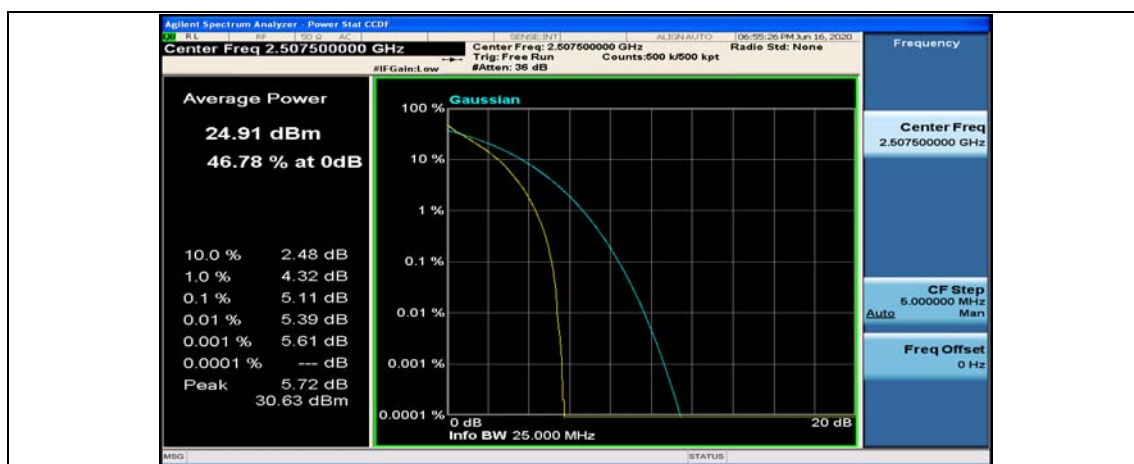


(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74



(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#0

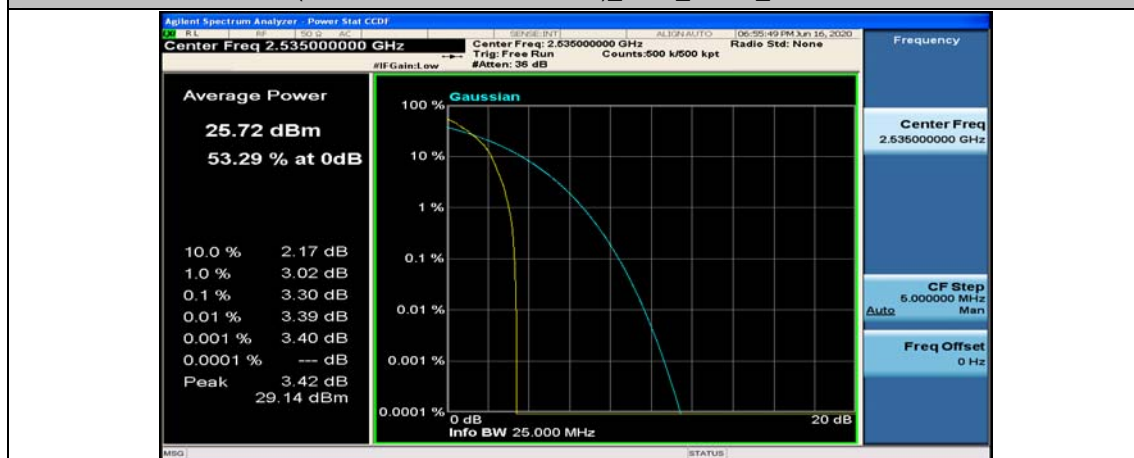




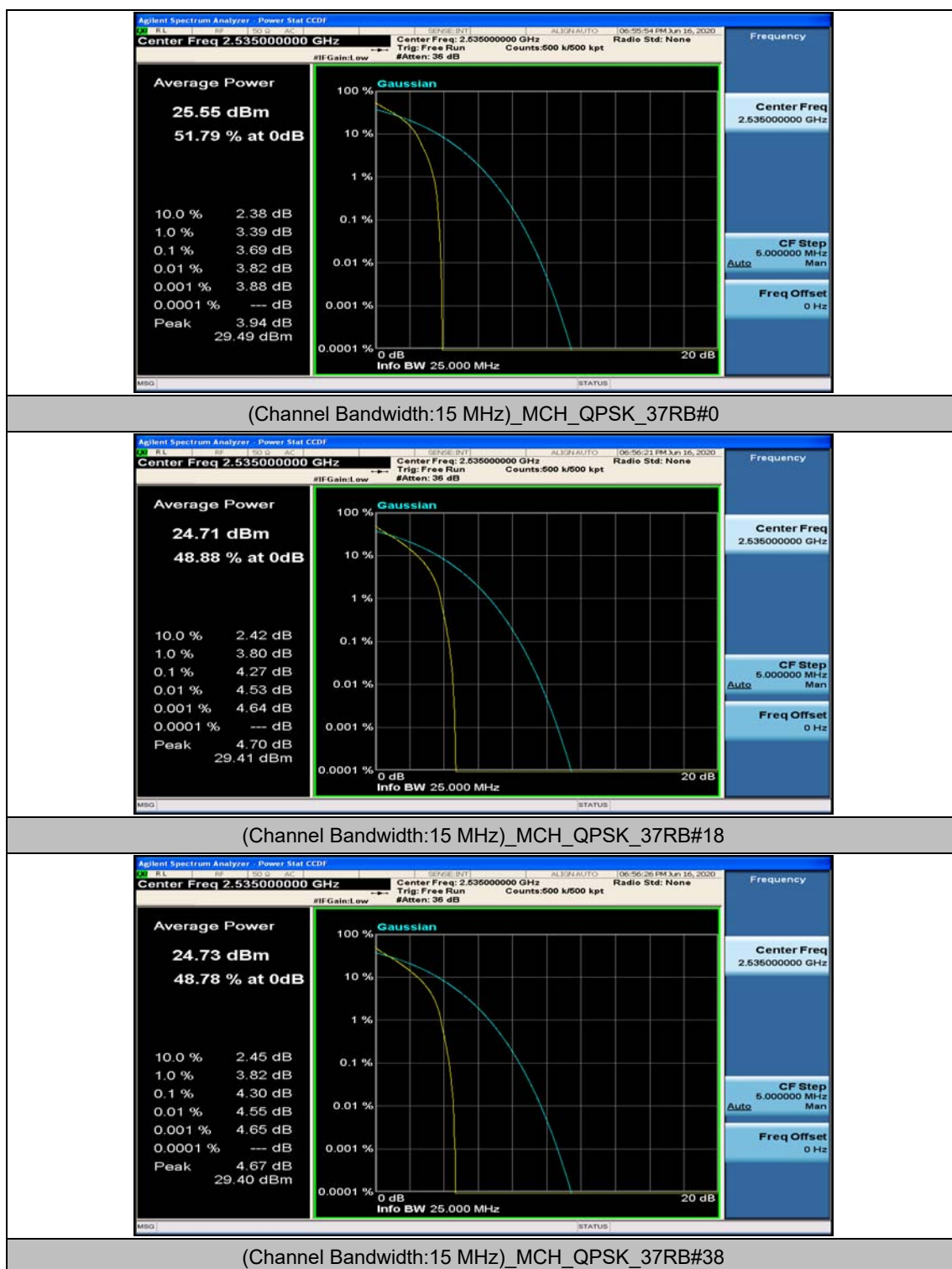
(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

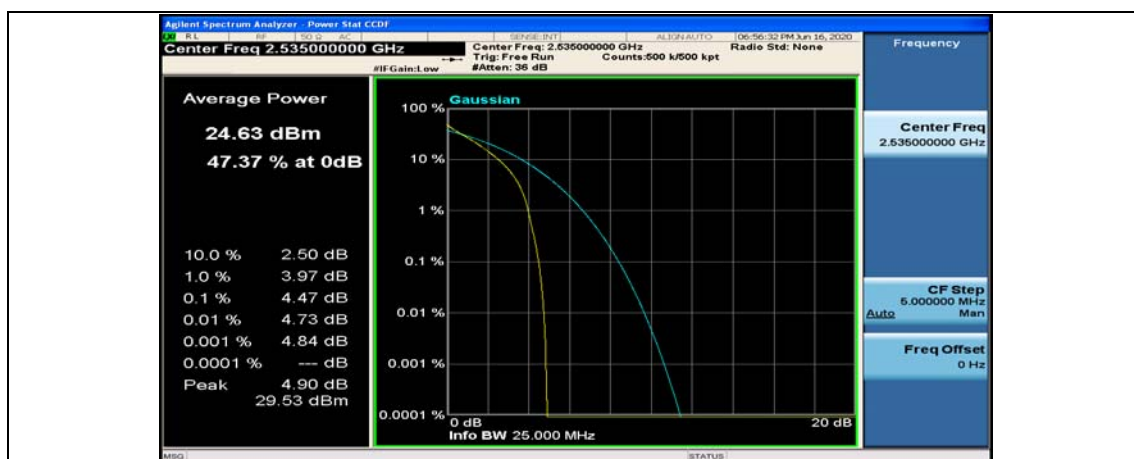


(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37



(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74

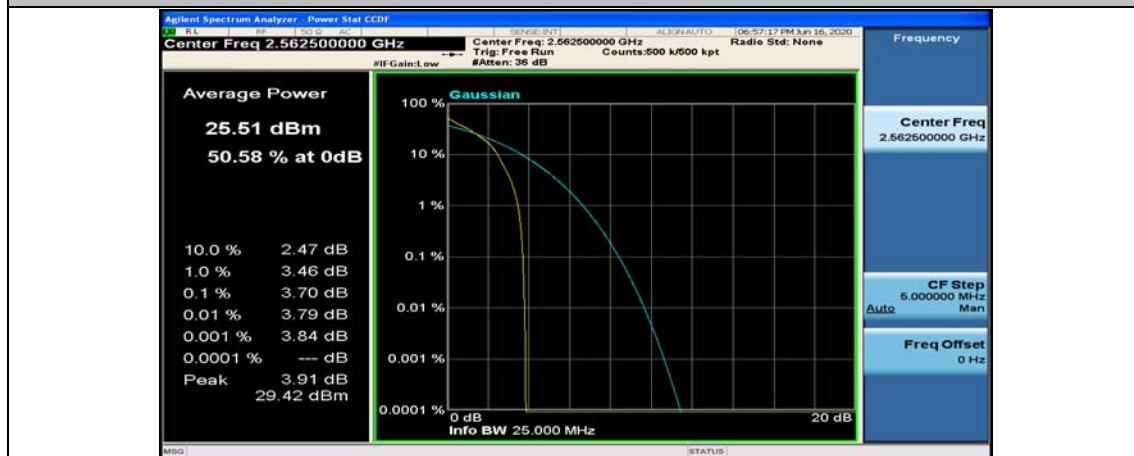




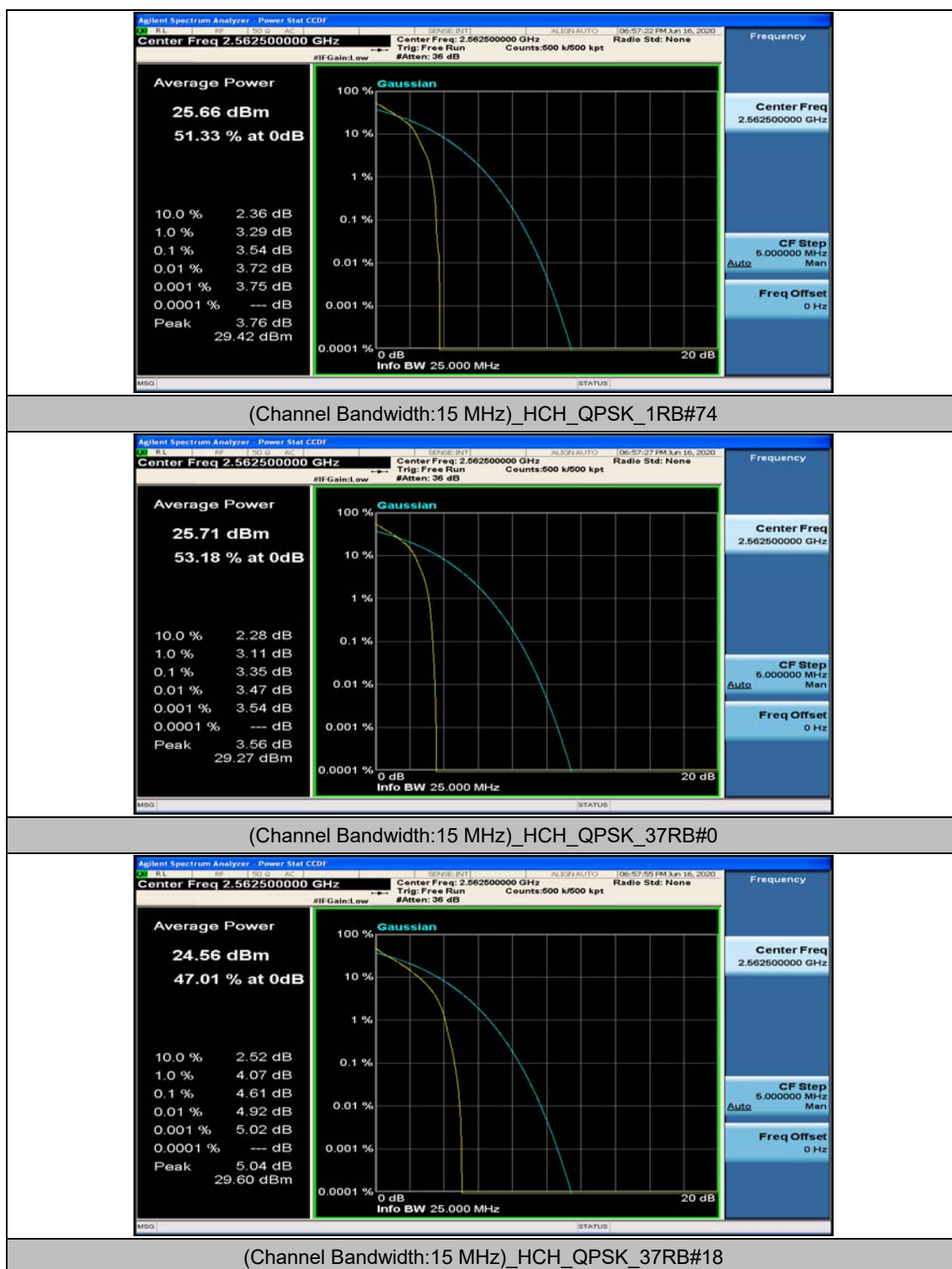
(Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0

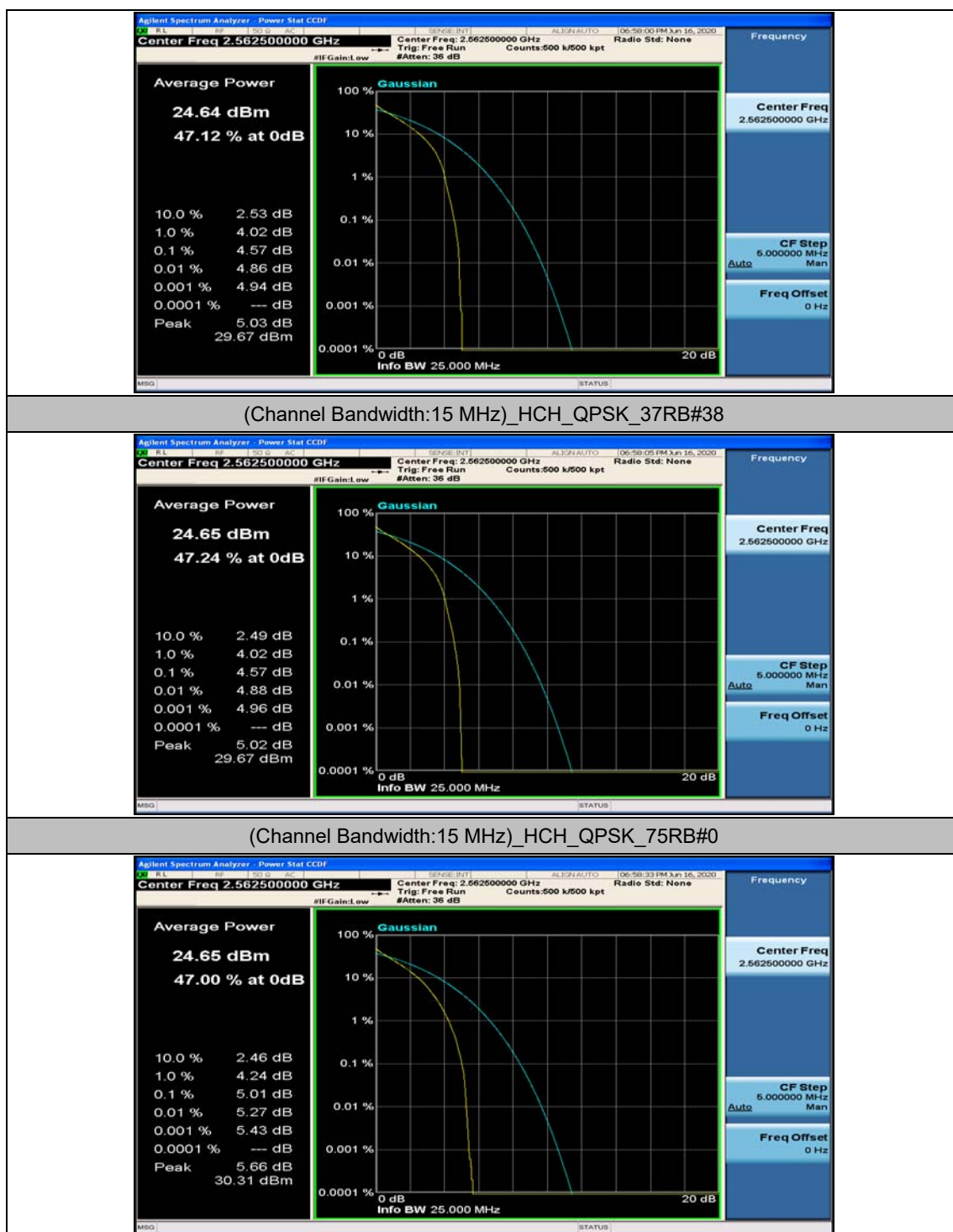


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

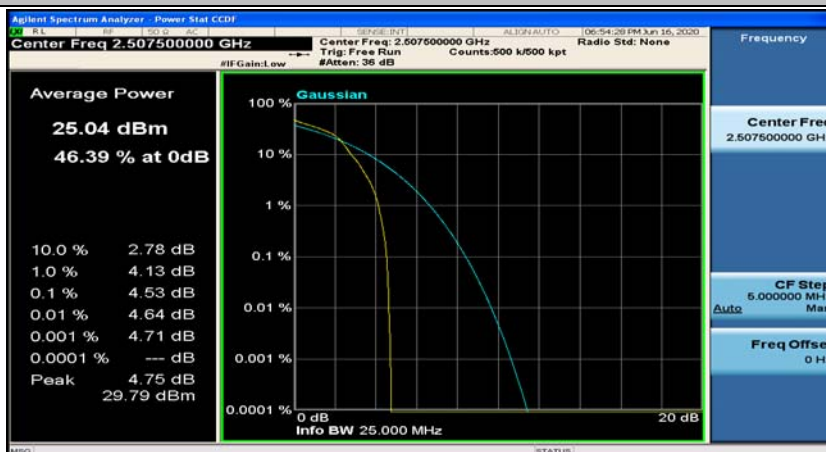


(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37





(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0



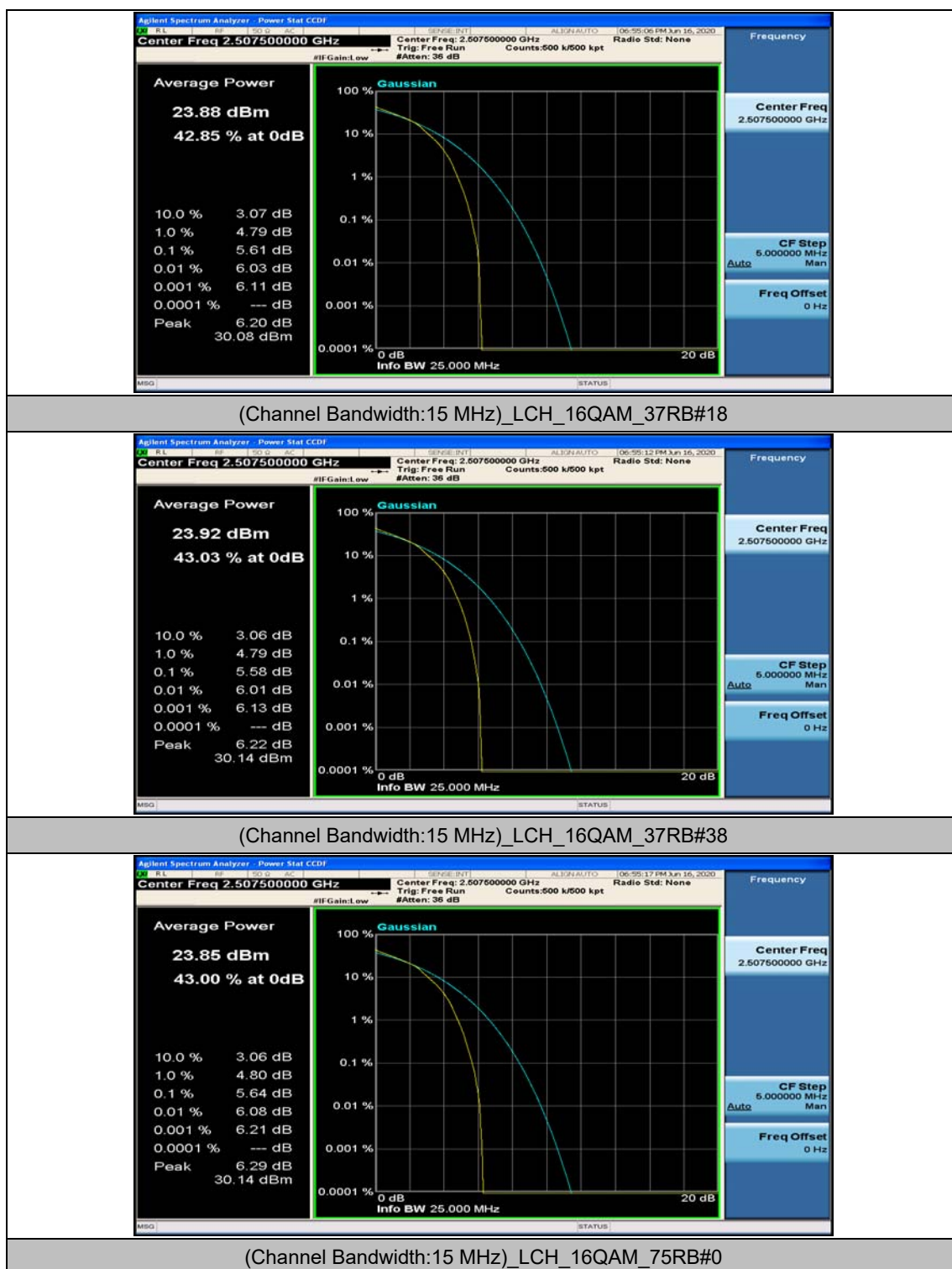
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

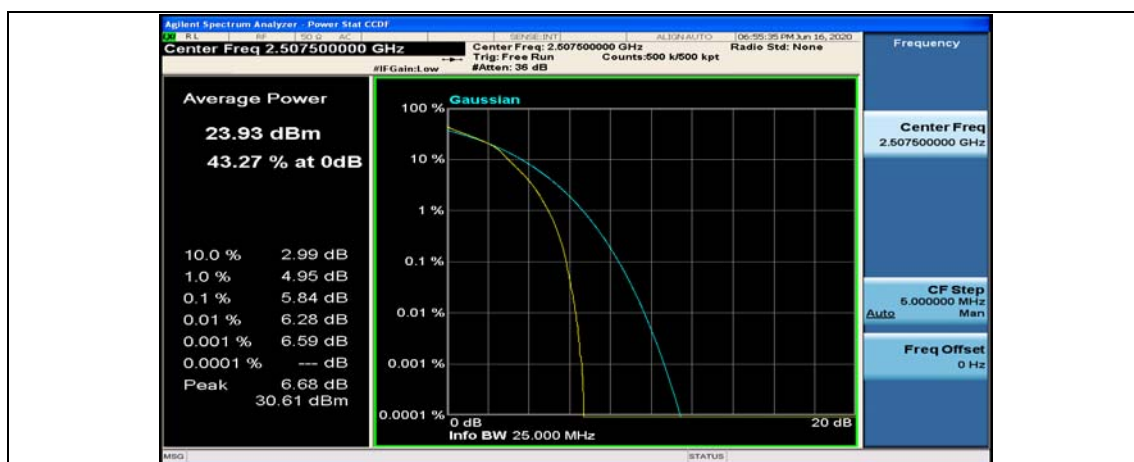


(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74



(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#0

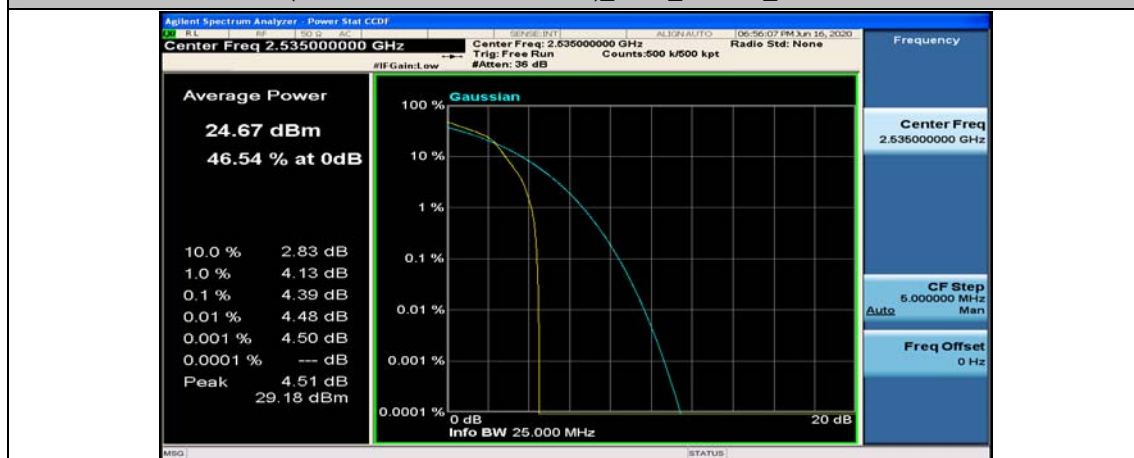




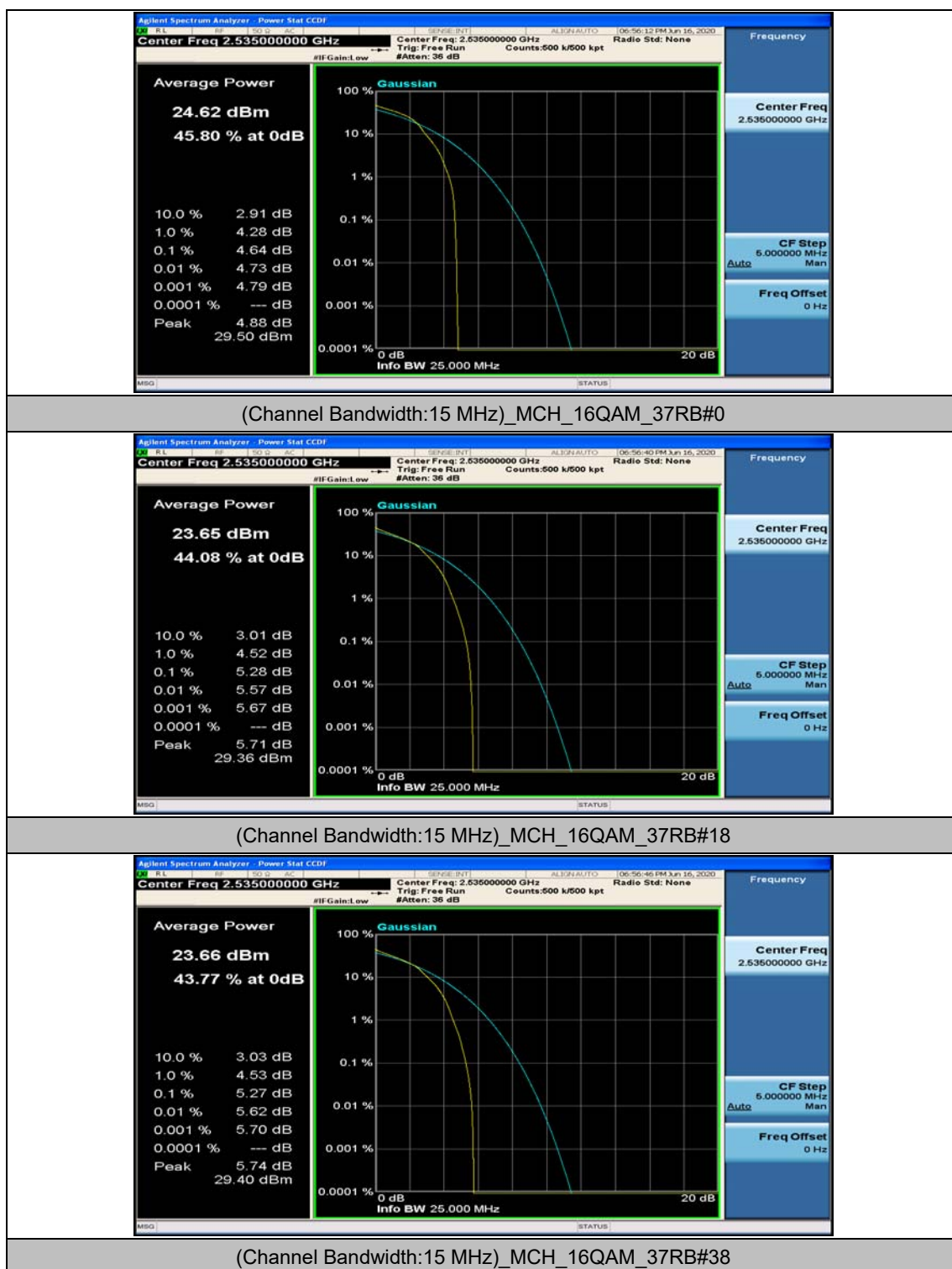
(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0

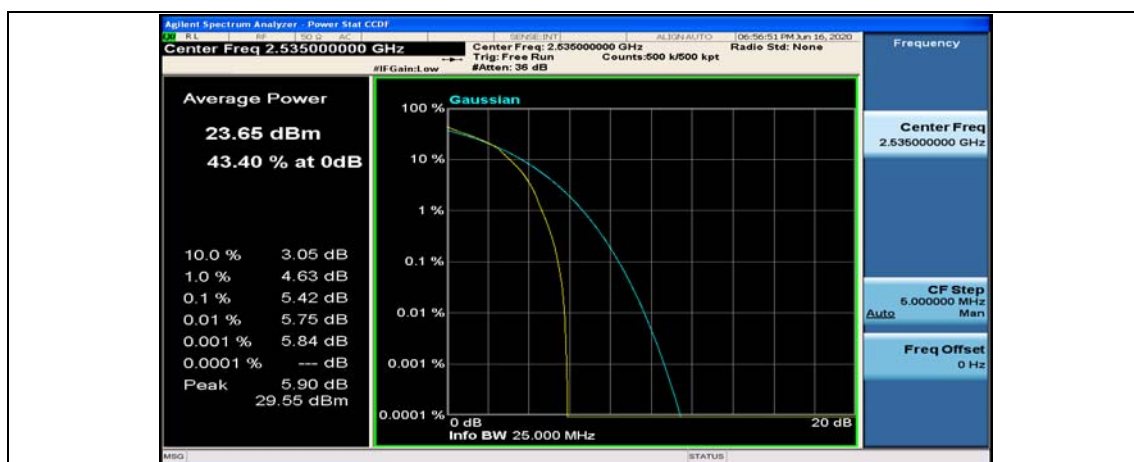


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

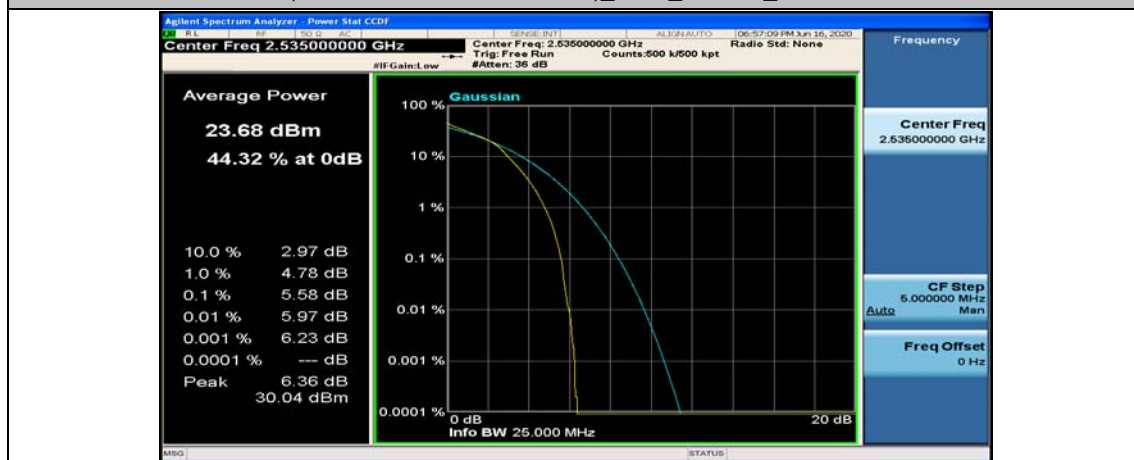


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74

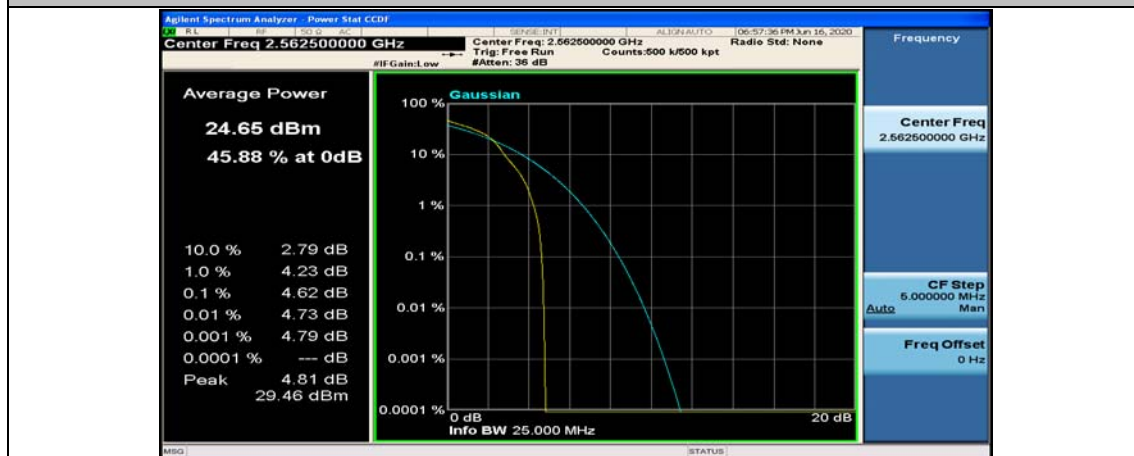




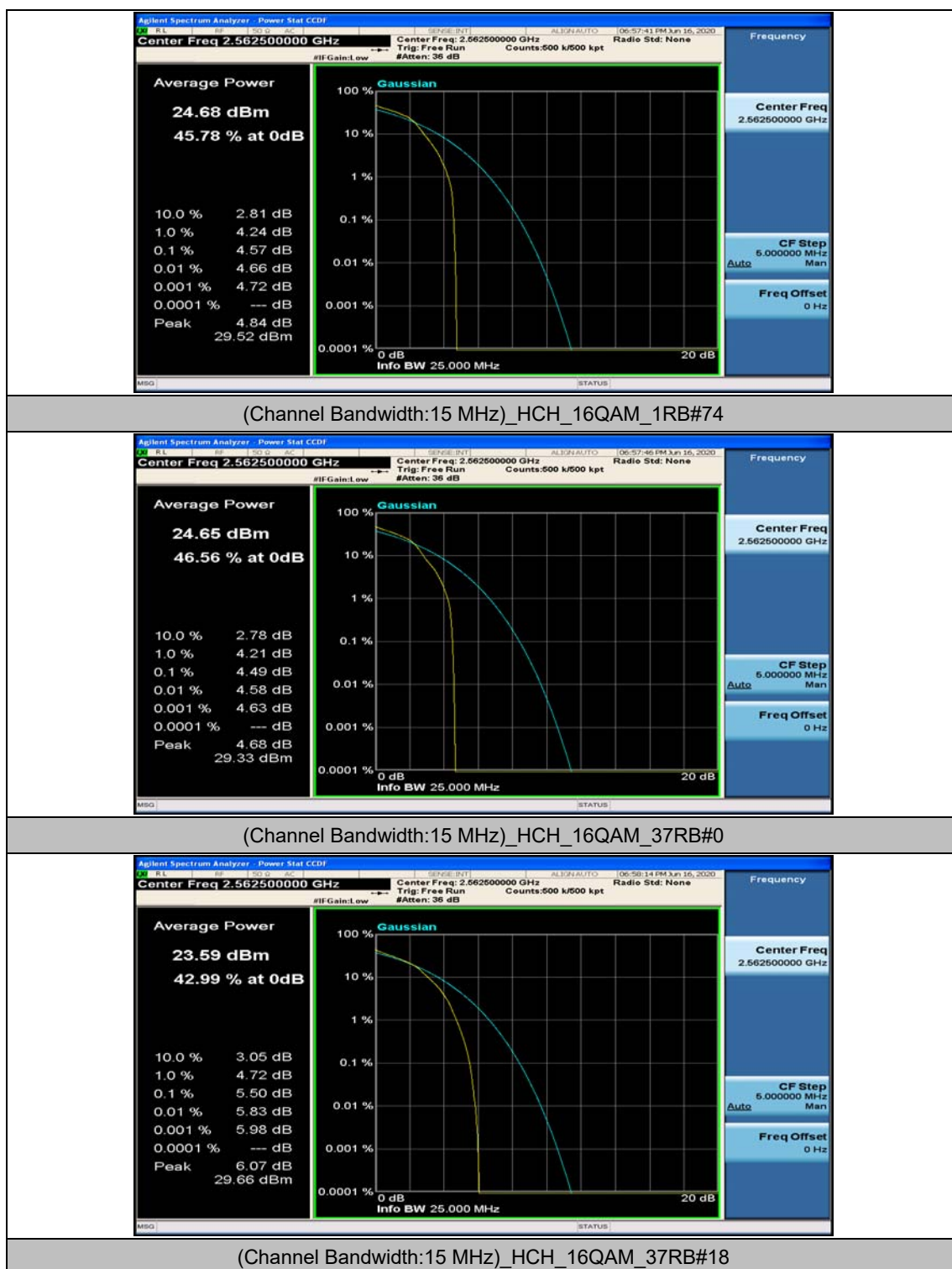
(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0

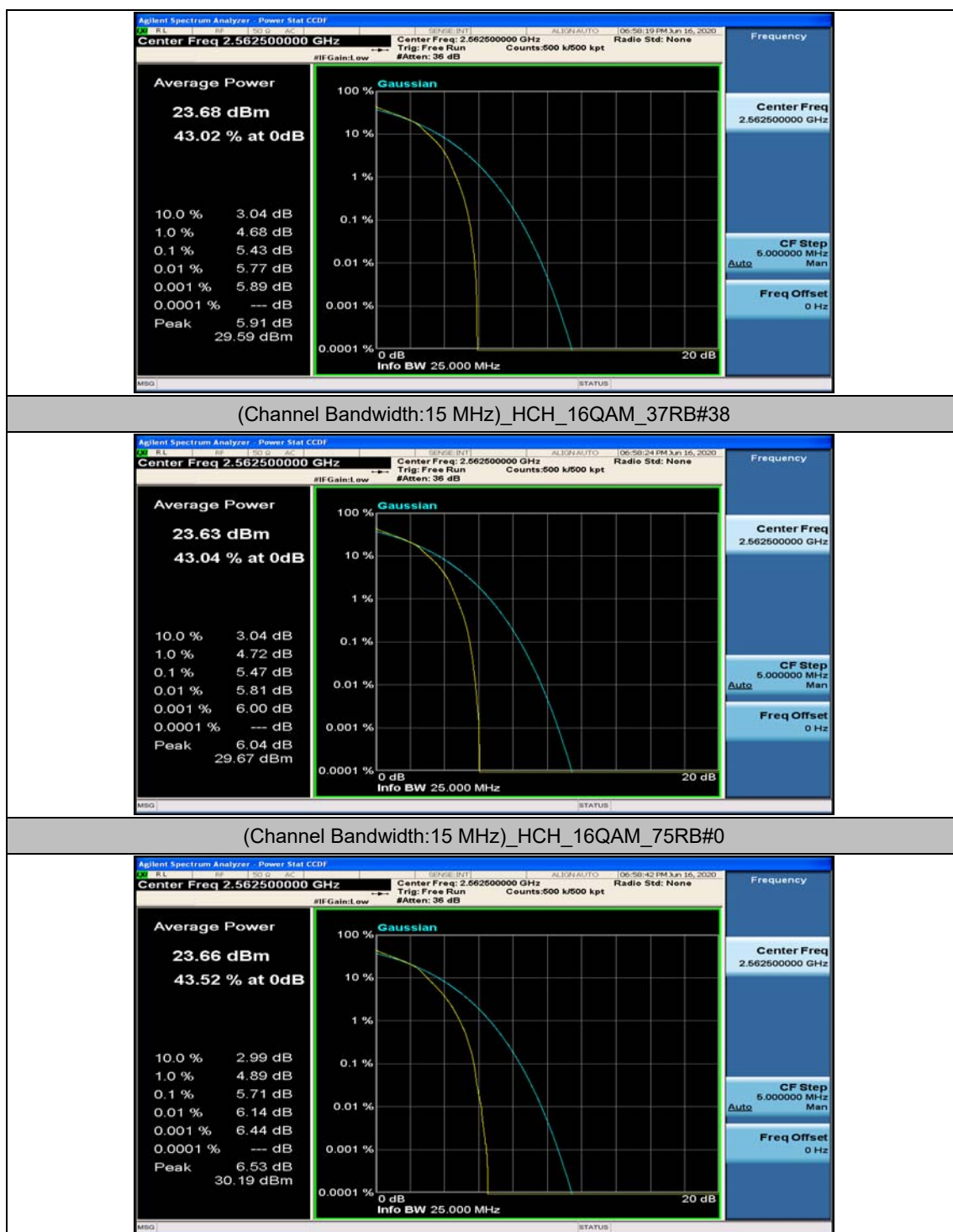


(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0



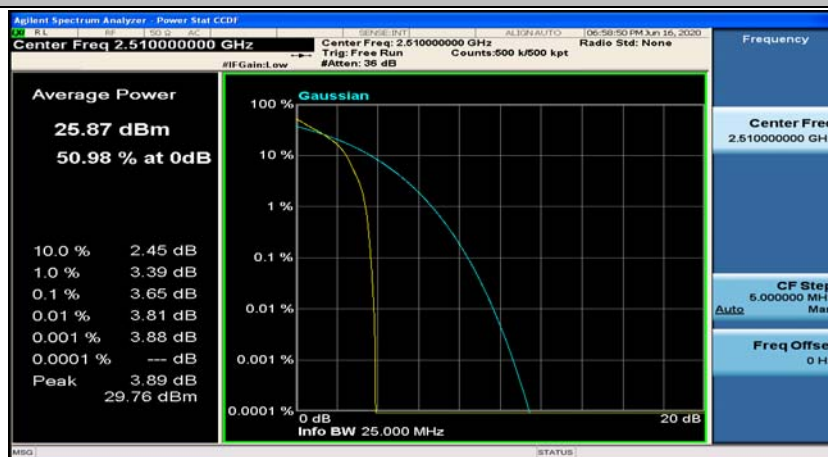
(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37



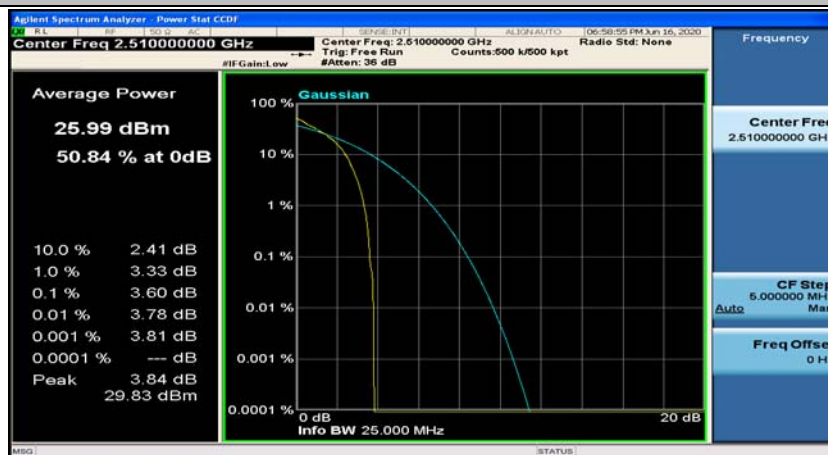


Channel Bandwidth: 20 MHz

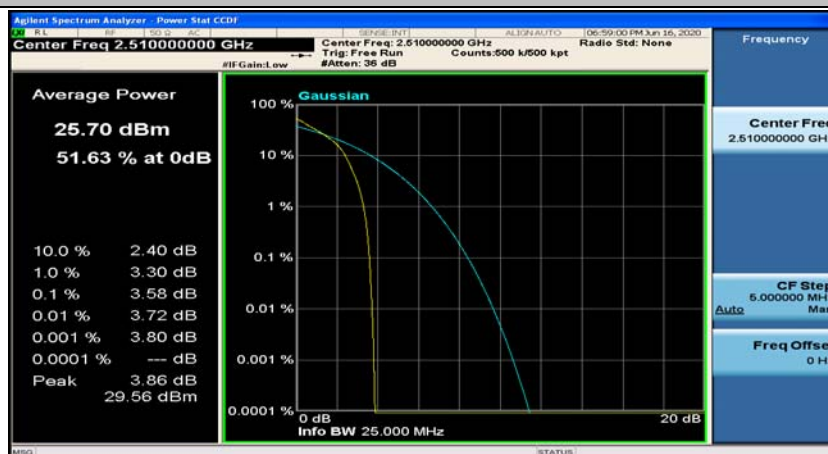
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49



(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99



(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#0

