

Appendix for Band 7

Product Name: 4G Power Socket
Model No: GSMSOCUS4G

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	21.61	PASS
		1	12	21.74	PASS
		1	24	21.72	PASS
		12	0	20.84	PASS
		12	6	20.74	PASS
		12	13	20.81	PASS
		25	0	20.76	PASS
	MCH	1	0	22.79	PASS
		1	12	23.04	PASS
		1	24	22.73	PASS
		12	0	21.87	PASS
		12	6	21.92	PASS
		12	13	21.87	PASS
		25	0	21.83	PASS
	HCH	1	0	23.22	PASS
		1	12	23.26	PASS
		1	24	23.13	PASS
		12	0	22.07	PASS
		12	6	22.03	PASS
		12	13	22.00	PASS
		25	0	22.13	PASS
16QAM	LCH	1	0	20.69	PASS
		1	12	20.55	PASS
		1	24	20.44	PASS
		12	0	20.80	PASS
		12	6	20.74	PASS
		12	13	20.59	PASS
		25	0	20.89	PASS
	MCH	1	0	21.76	PASS
		1	12	22.06	PASS
		1	24	21.65	PASS
		12	0	21.00	PASS
		12	6	21.06	PASS

		12	13	20.73	PASS
		25	0	20.82	PASS
	HCH	1	0	21.33	PASS
		1	12	21.37	PASS
		1	24	21.47	PASS
		12	0	20.93	PASS
		12	6	20.91	PASS
		12	13	20.97	PASS
		25	0	21.00	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.65	PASS
		1	24	21.86	PASS
		1	49	21.68	PASS
		25	0	20.84	PASS
		25	12	20.83	PASS
		25	25	20.74	PASS
		50	0	20.82	PASS
	MCH	1	0	22.67	PASS
		1	24	23.16	PASS
		1	49	22.74	PASS
		25	0	21.94	PASS
		25	12	21.99	PASS
		25	25	21.88	PASS
		50	0	21.85	PASS
	HCH	1	0	23.04	PASS
		1	24	23.43	PASS
		1	49	22.76	PASS
		25	0	21.95	PASS
		25	12	22.23	PASS
		25	25	22.33	PASS
		50	0	22.04	PASS
16QAM	LCH	1	0	21.74	PASS
		1	24	21.29	PASS
		1	49	21.20	PASS
		25	0	20.77	PASS
		25	12	20.88	PASS
		25	25	20.75	PASS
		50	0	20.84	PASS

	MCH	1	0	22.18	PASS
		1	24	22.66	PASS
		1	49	22.32	PASS
		25	0	21.01	PASS
		25	12	21.06	PASS
		25	25	20.88	PASS
		50	0	21.02	PASS
	HCH	1	0	21.90	PASS
		1	24	22.51	PASS
		1	49	21.81	PASS
		25	0	21.10	PASS
		25	12	21.40	PASS
		25	25	21.51	PASS
		50	0	21.13	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.68	PASS
		1	37	21.81	PASS
		1	74	22.05	PASS
		37	0	20.79	PASS
		37	18	20.70	PASS
		37	38	20.70	PASS
		75	0	20.94	PASS
	MCH	1	0	22.50	PASS
		1	37	23.37	PASS
		1	74	22.88	PASS
		37	0	21.90	PASS
		37	18	22.00	PASS
		37	38	21.94	PASS
		75	0	21.87	PASS
	HCH	1	0	23.12	PASS
		1	37	23.48	PASS
		1	74	22.80	PASS
		37	0	22.13	PASS
		37	18	22.24	PASS
		37	38	21.97	PASS
		75	0	22.12	PASS
16QAM	LCH	1	0	21.13	PASS
		1	37	21.25	PASS

		1	74	21.45	PASS
		37	0	20.77	PASS
		37	18	20.77	PASS
		37	38	20.76	PASS
		75	0	20.99	PASS
	MCH	1	0	22.20	PASS
		1	37	22.76	PASS
		1	74	22.48	PASS
		37	0	20.98	PASS
		37	18	21.00	PASS
		37	38	20.86	PASS
		75	0	21.00	PASS
	HCH	1	0	21.99	PASS
		1	37	22.70	PASS
		1	74	22.08	PASS
		37	0	21.19	PASS
		37	18	21.42	PASS
		37	38	21.12	PASS
		75	0	21.03	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.53	PASS
		1	49	21.77	PASS
		1	99	21.75	PASS
		50	0	20.95	PASS
		50	25	20.88	PASS
		50	50	20.89	PASS
		100	0	20.91	PASS
	MCH	1	0	22.30	PASS
		1	49	23.45	PASS
		1	99	22.66	PASS
		50	0	21.77	PASS
		50	25	21.99	PASS
		50	50	21.92	PASS
		100	0	21.91	PASS
	HCH	1	0	23.43	PASS
		1	49	23.41	PASS
		1	99	22.98	PASS
		50	0	22.11	PASS

		50	25	22.19	PASS
		50	50	22.00	PASS
		100	0	22.01	PASS
16QAM	LCH	1	0	20.73	PASS
		1	49	20.45	PASS
		1	99	20.38	PASS
		50	0	20.97	PASS
		50	25	20.73	PASS
		50	50	20.89	PASS
		100	0	20.94	PASS
	MCH	1	0	21.91	PASS
		1	49	22.22	PASS
		1	99	21.77	PASS
		50	0	20.84	PASS
		50	25	20.91	PASS
		50	50	20.89	PASS
		100	0	20.95	PASS
	HCH	1	0	21.65	PASS
		1	49	22.06	PASS
		1	99	21.42	PASS
		50	0	21.18	PASS
		50	25	21.28	PASS
		50	50	21.11	PASS
		100	0	21.20	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	3.51	<13	PASS
		1	12	3.38	<13	PASS
		1	24	3.37	<13	PASS
		12	0	4.34	<13	PASS
		12	6	4.23	<13	PASS
		12	13	4.23	<13	PASS
		25	0	4.66	<13	PASS
	MCH	1	0	3.8	<13	PASS
		1	12	3.64	<13	PASS
		1	24	3.67	<13	PASS
		12	0	4.57	<13	PASS
		12	6	4.43	<13	PASS
		12	13	4.53	<13	PASS
		25	0	4.96	<13	PASS
	HCH	1	0	3.78	<13	PASS
		1	12	3.58	<13	PASS
		1	24	3.63	<13	PASS
		12	0	4.66	<13	PASS
		12	6	4.7	<13	PASS
		12	13	4.76	<13	PASS
		25	0	5.08	<13	PASS
16QAM	LCH	1	0	4.32	<13	PASS
		1	12	4.18	<13	PASS
		1	24	4.25	<13	PASS
		12	0	5.24	<13	PASS
		12	6	5.07	<13	PASS
		12	13	5.16	<13	PASS
		25	0	5.46	<13	PASS
	MCH	1	0	4.54	<13	PASS
		1	12	4.38	<13	PASS
		1	24	4.36	<13	PASS

		12	0	5.51	<13	PASS
		12	6	5.41	<13	PASS
		12	13	5.49	<13	PASS
		25	0	5.81	<13	PASS
	HCH	1	0	4.48	<13	PASS
		1	12	4.44	<13	PASS
		1	24	4.51	<13	PASS
		12	0	5.55	<13	PASS
		12	6	5.44	<13	PASS
		12	13	5.52	<13	PASS
		25	0	5.86	<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	3.44	<13	PASS
		1	24	3.33	<13	PASS
		1	49	3.46	<13	PASS
		25	0	4.21	<13	PASS
		25	12	4.17	<13	PASS
		25	25	4.28	<13	PASS
		50	0	4.71	<13	PASS
	MCH	1	0	3.75	<13	PASS
		1	24	3.55	<13	PASS
		1	49	3.6	<13	PASS
		25	0	4.6	<13	PASS
		25	12	4.44	<13	PASS
		25	25	4.52	<13	PASS
		50	0	5.06	<13	PASS
	HCH	1	0	3.79	<13	PASS
		1	24	3.58	<13	PASS
		1	49	3.7	<13	PASS
		25	0	4.67	<13	PASS
		25	12	4.54	<13	PASS
		25	25	4.54	<13	PASS
		50	0	5.22	<13	PASS
16QAM	LCH	1	0	4	<13	PASS
		1	24	4.02	<13	PASS
		1	49	4.22	<13	PASS
		25	0	5.15	<13	PASS

		25	12	5.04	<13	PASS
		25	25	5.18	<13	PASS
		50	0	5.49	<13	PASS
	MCH	1	0	4.5	<13	PASS
		1	24	4.46	<13	PASS
		1	49	4.35	<13	PASS
		25	0	5.5	<13	PASS
		25	12	5.36	<13	PASS
		25	25	5.45	<13	PASS
		50	0	5.85	<13	PASS
	HCH	1	0	4.6	<13	PASS
		1	24	4.58	<13	PASS
		1	49	4.67	<13	PASS
		25	0	5.61	<13	PASS
		25	12	5.47	<13	PASS
		25	25	5.71	<13	PASS
		50	0	6.01	<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	3.41	<13	PASS
		1	37	3.36	<13	PASS
		1	74	3.56	<13	PASS
		37	0	4.24	<13	PASS
		37	18	4.23	<13	PASS
		37	38	4.46	<13	PASS
		75	0	4.99	<13	PASS
	MCH	1	0	3.77	<13	PASS
		1	37	3.57	<13	PASS
		1	74	3.57	<13	PASS
		37	0	4.64	<13	PASS
		37	18	4.45	<13	PASS
		37	38	4.5	<13	PASS
		75	0	5.13	<13	PASS
	HCH	1	0	3.7	<13	PASS
		1	37	3.55	<13	PASS
		1	74	3.61	<13	PASS
		37	0	4.72	<13	PASS
		37	18	4.59	<13	PASS

		37	38	4.67	<13	PASS
		75	0	5.23	<13	PASS
16QAM	LCH	1	0	4.12	<13	PASS
		1	37	4.04	<13	PASS
		1	74	4.37	<13	PASS
		37	0	5.17	<13	PASS
		37	18	5.1	<13	PASS
		37	38	5.36	<13	PASS
		75	0	5.73	<13	PASS
		75	0	5.73	<13	PASS
	MCH	1	0	4.55	<13	PASS
		1	37	4.26	<13	PASS
		1	74	4.41	<13	PASS
		37	0	5.53	<13	PASS
		37	18	5.36	<13	PASS
		37	38	5.4	<13	PASS
		75	0	5.91	<13	PASS
		75	0	5.91	<13	PASS
	HCH	1	0	4.6	<13	PASS
		1	37	4.38	<13	PASS
		1	74	4.48	<13	PASS
		37	0	5.61	<13	PASS
		37	18	5.47	<13	PASS
		37	38	5.56	<13	PASS
		75	0	6.05	<13	PASS
		75	0	6.05	<13	PASS

Channel Bandwidth: 20 MHz

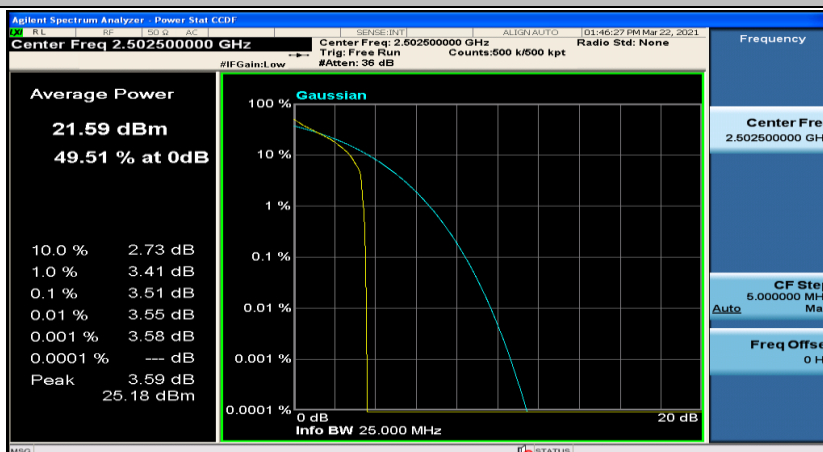
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.44	<13	PASS
		1	49	3.49	<13	PASS
		1	99	3.73	<13	PASS
		50	0	4.29	<13	PASS
		50	25	4.35	<13	PASS
		50	50	4.64	<13	PASS
		100	0	5.02	<13	PASS
		100	0	5.02	<13	PASS
	MCH	1	0	3.78	<13	PASS
		1	49	3.48	<13	PASS
		1	99	3.63	<13	PASS
		50	0	4.64	<13	PASS
		50	25	4.49	<13	PASS
		50	50	4.54	<13	PASS

		100	0	5.06	<13	PASS
	HCH	1	0	3.62	<13	PASS
		1	49	3.63	<13	PASS
		1	99	4.1	<13	PASS
		50	0	4.7	<13	PASS
		50	25	4.64	<13	PASS
		50	50	4.68	<13	PASS
		100	0	5.09	<13	PASS
16QAM	LCH	1	0	4.15	<13	PASS
		1	49	4.3	<13	PASS
		1	99	4.42	<13	PASS
		50	0	5.16	<13	PASS
		50	25	5.25	<13	PASS
		50	50	5.53	<13	PASS
		100	0	5.75	<13	PASS
	MCH	1	0	4.55	<13	PASS
		1	49	4.36	<13	PASS
		1	99	4.38	<13	PASS
		50	0	5.57	<13	PASS
		50	25	5.39	<13	PASS
		50	50	5.47	<13	PASS
		100	0	5.86	<13	PASS
	HCH	1	0	4.52	<13	PASS
		1	49	4.51	<13	PASS
		1	99	4.71	<13	PASS
		50	0	5.65	<13	PASS
		50	25	5.55	<13	PASS
		50	50	5.63	<13	PASS
		100	0	5.93	<13	PASS

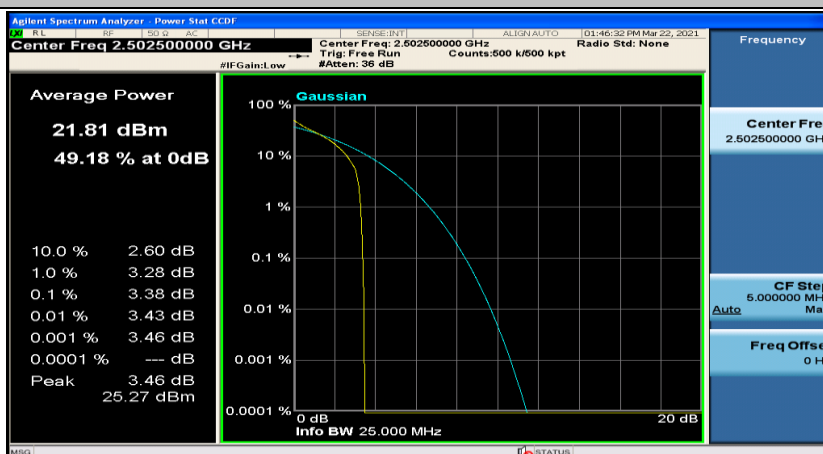
Test Graphs

Channel Bandwidth: 5 MHz

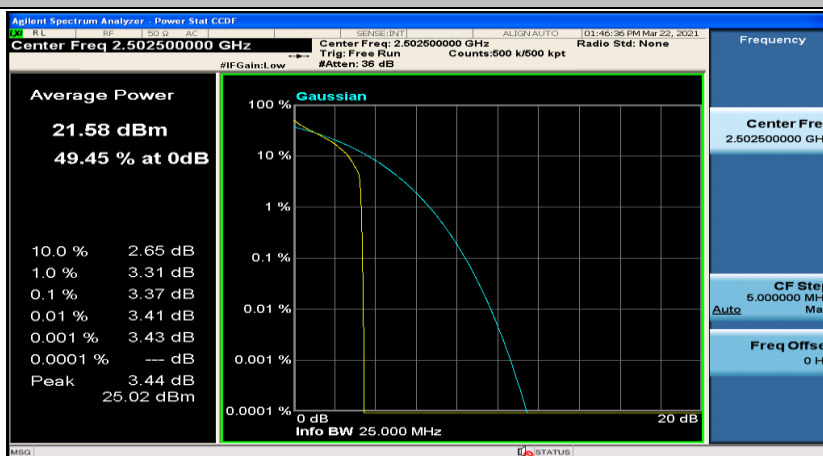
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



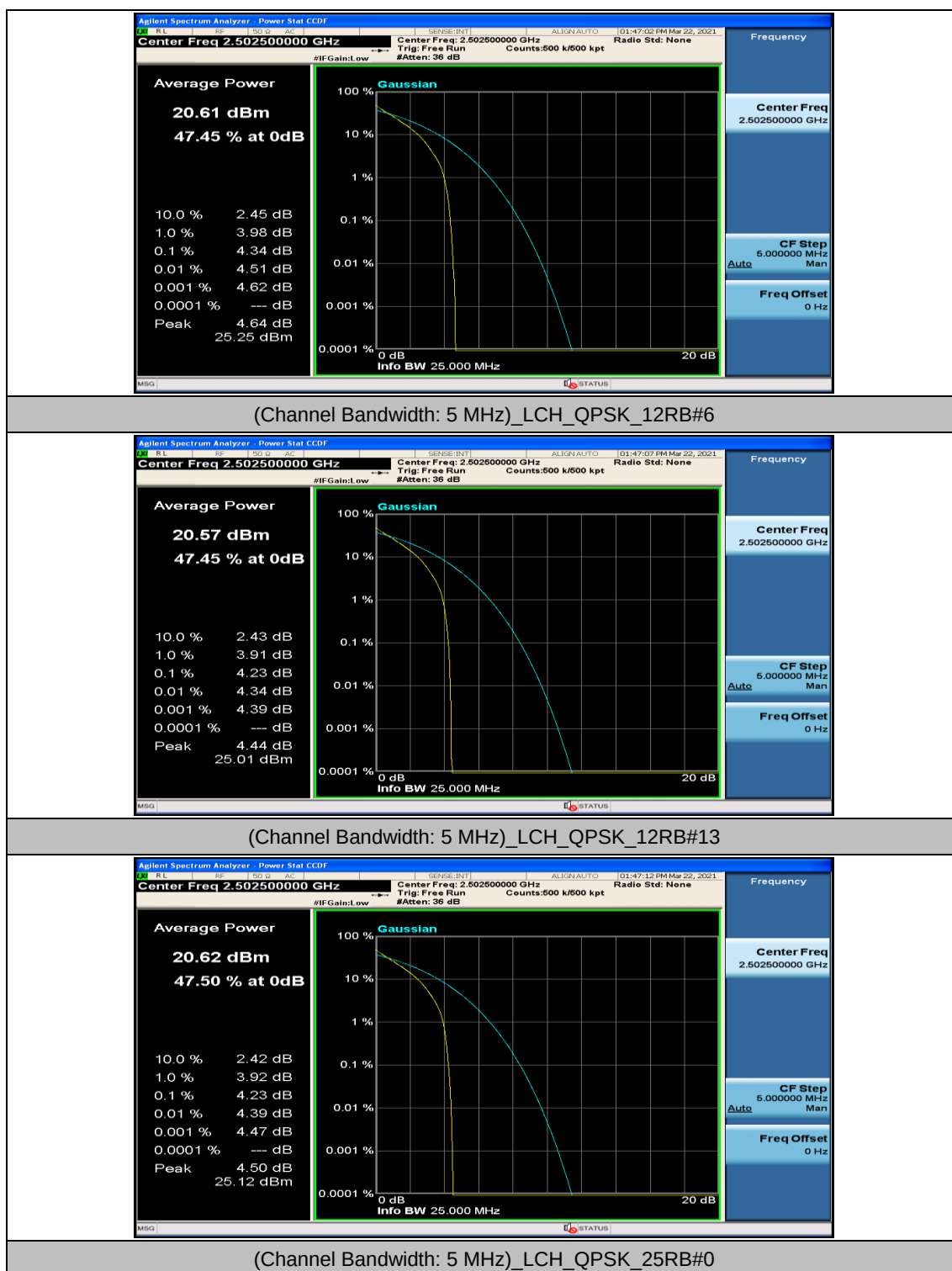
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

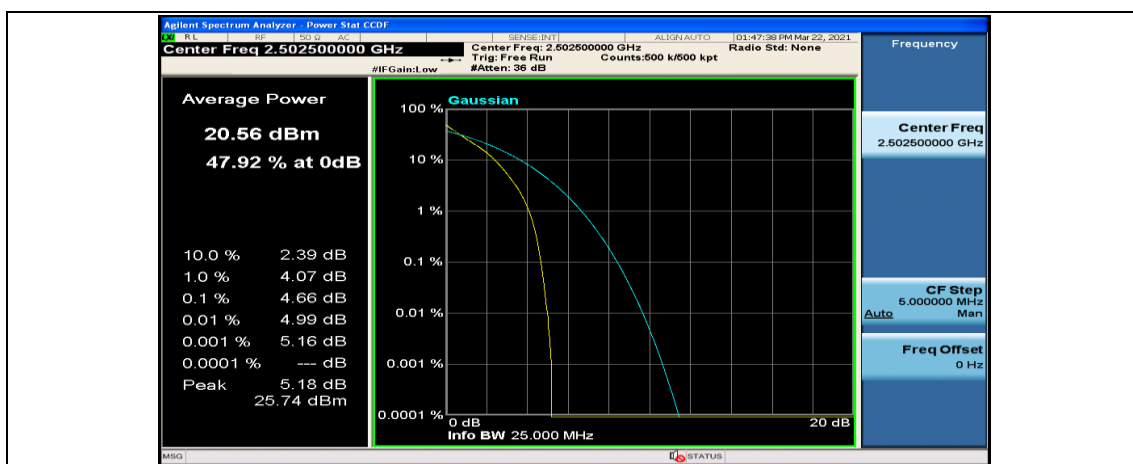


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

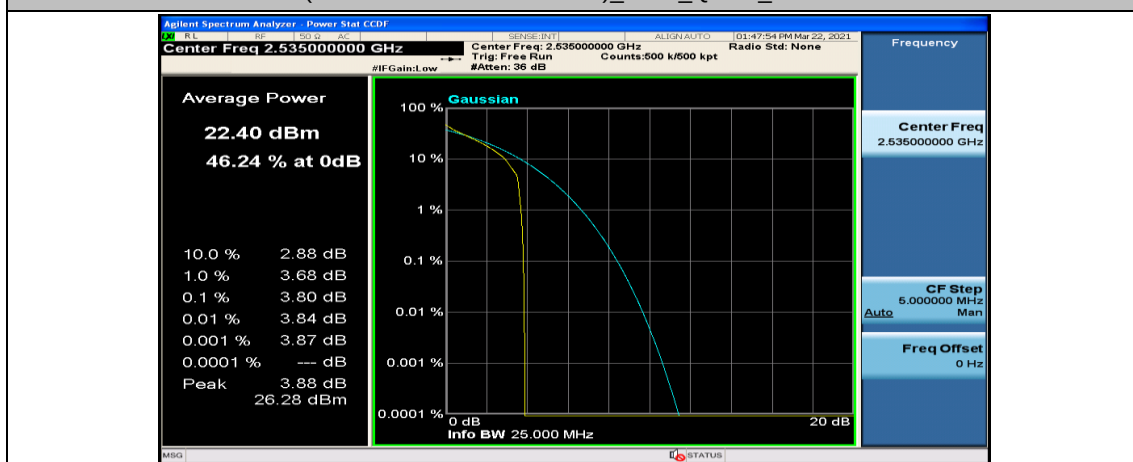


(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0

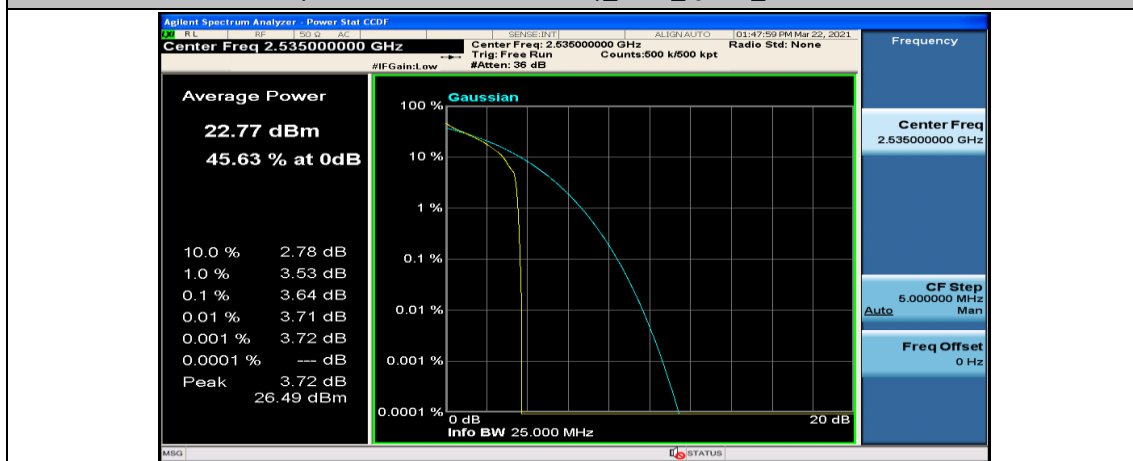




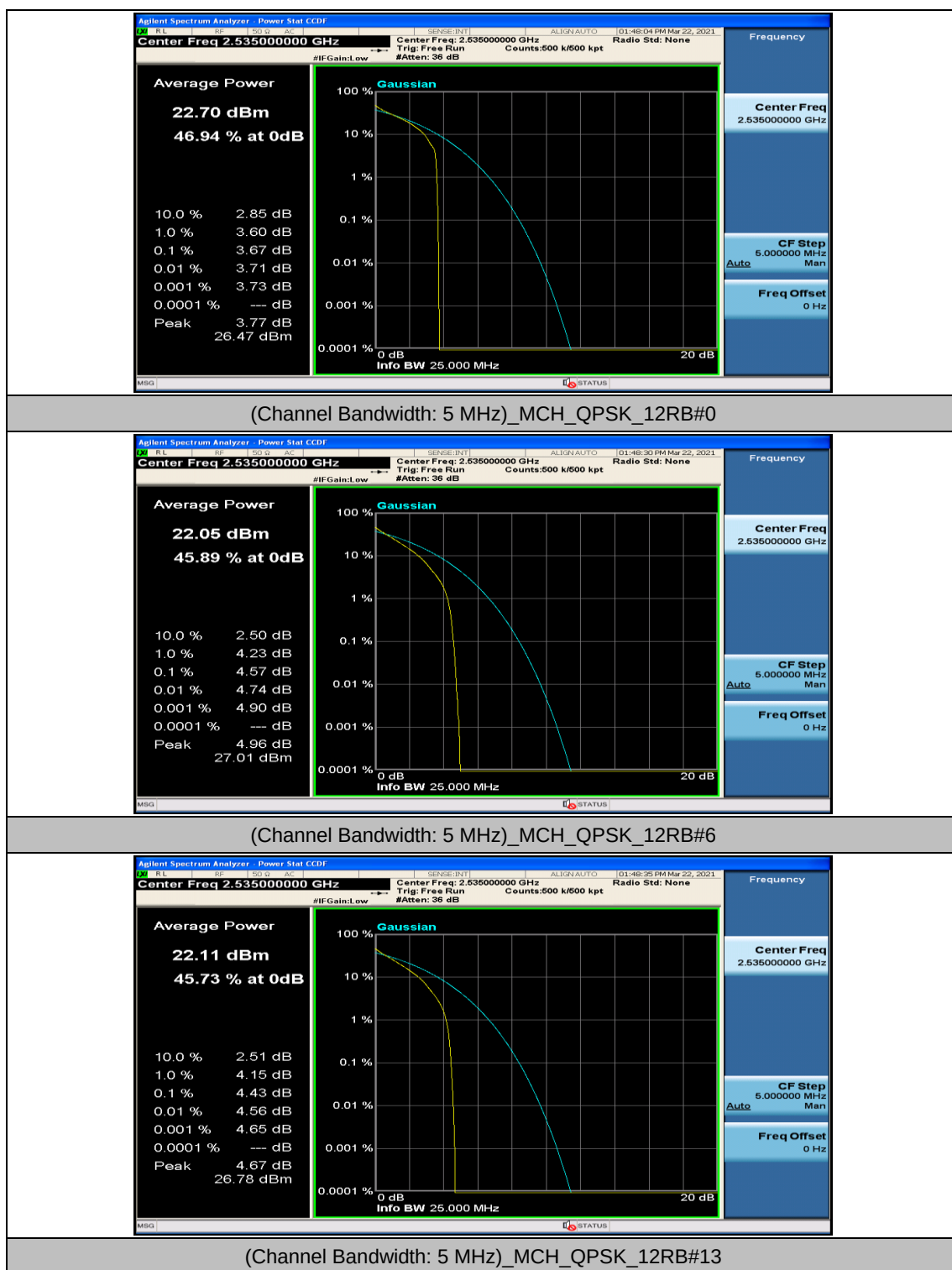
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

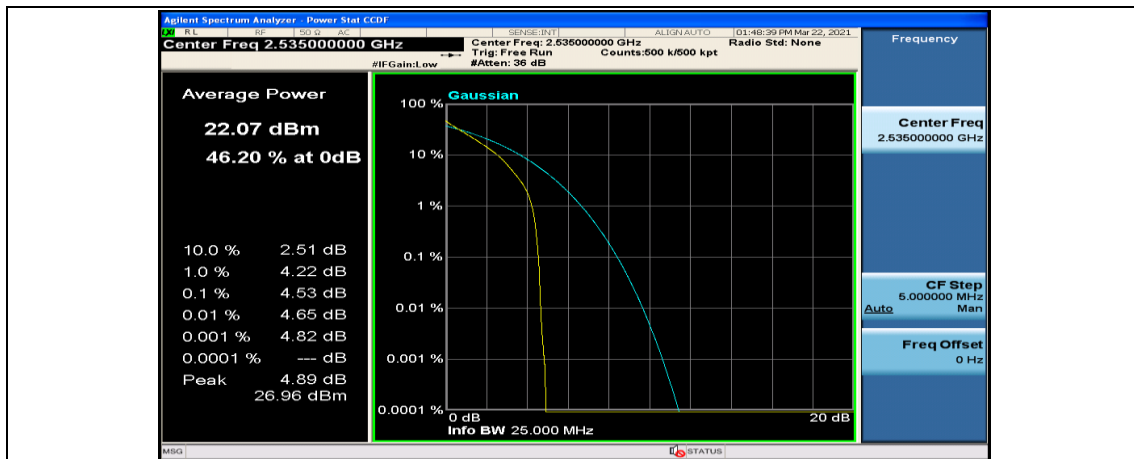


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

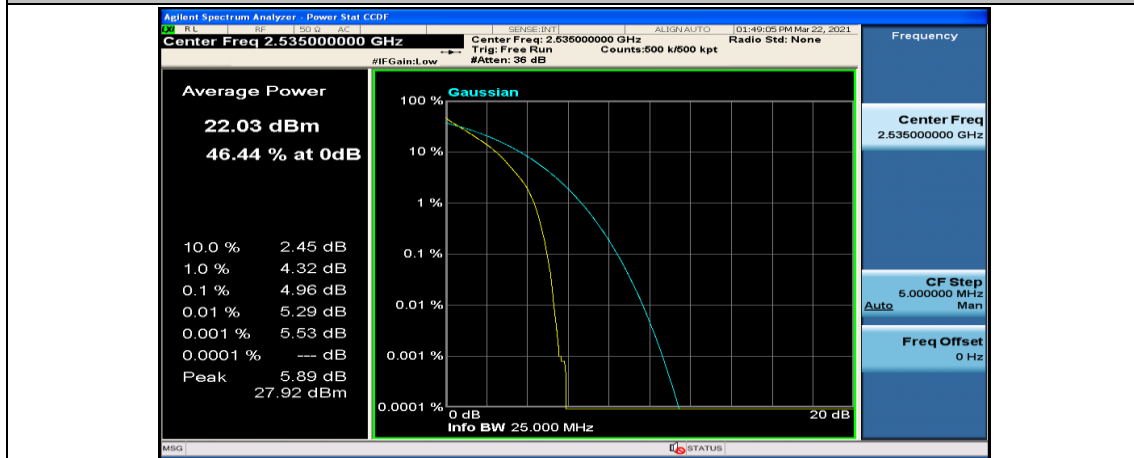


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

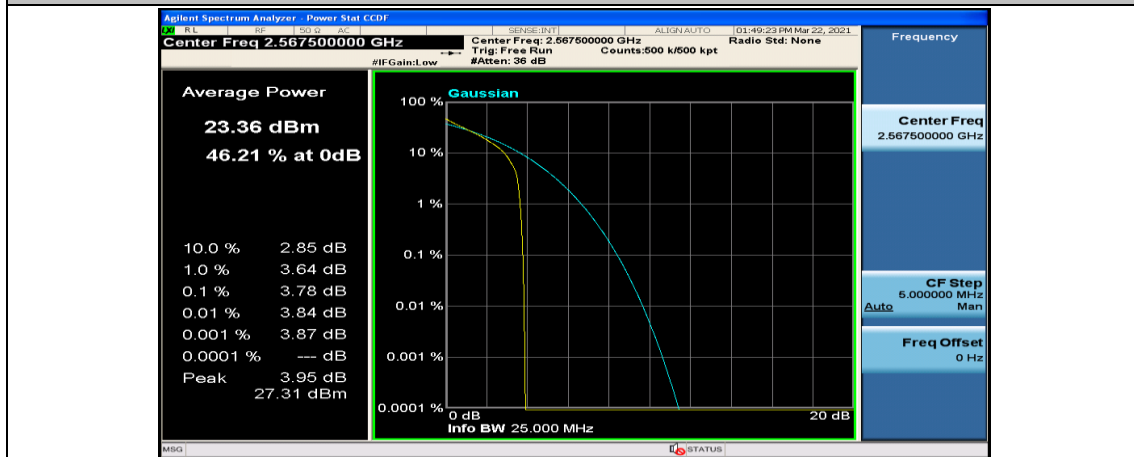




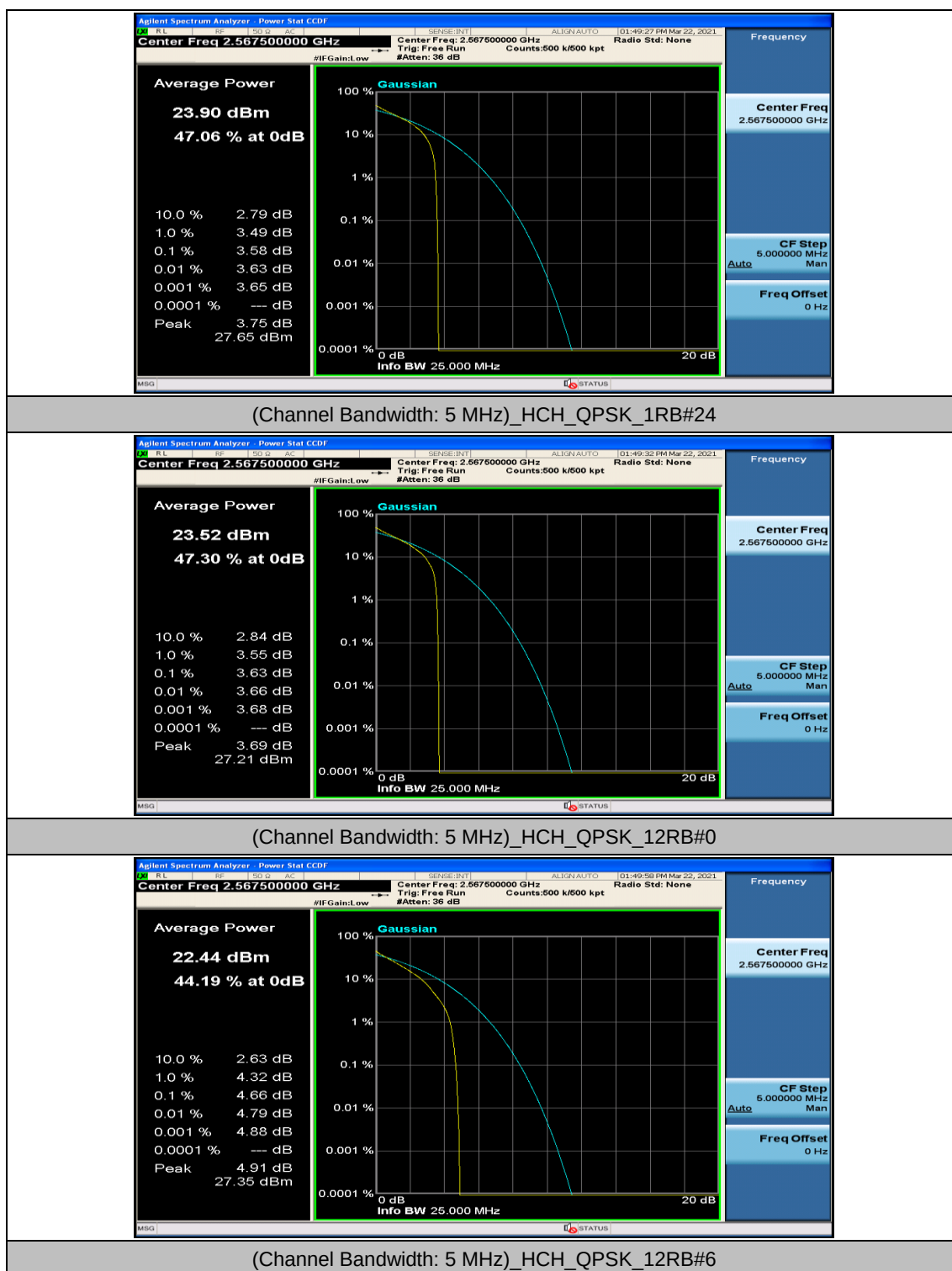
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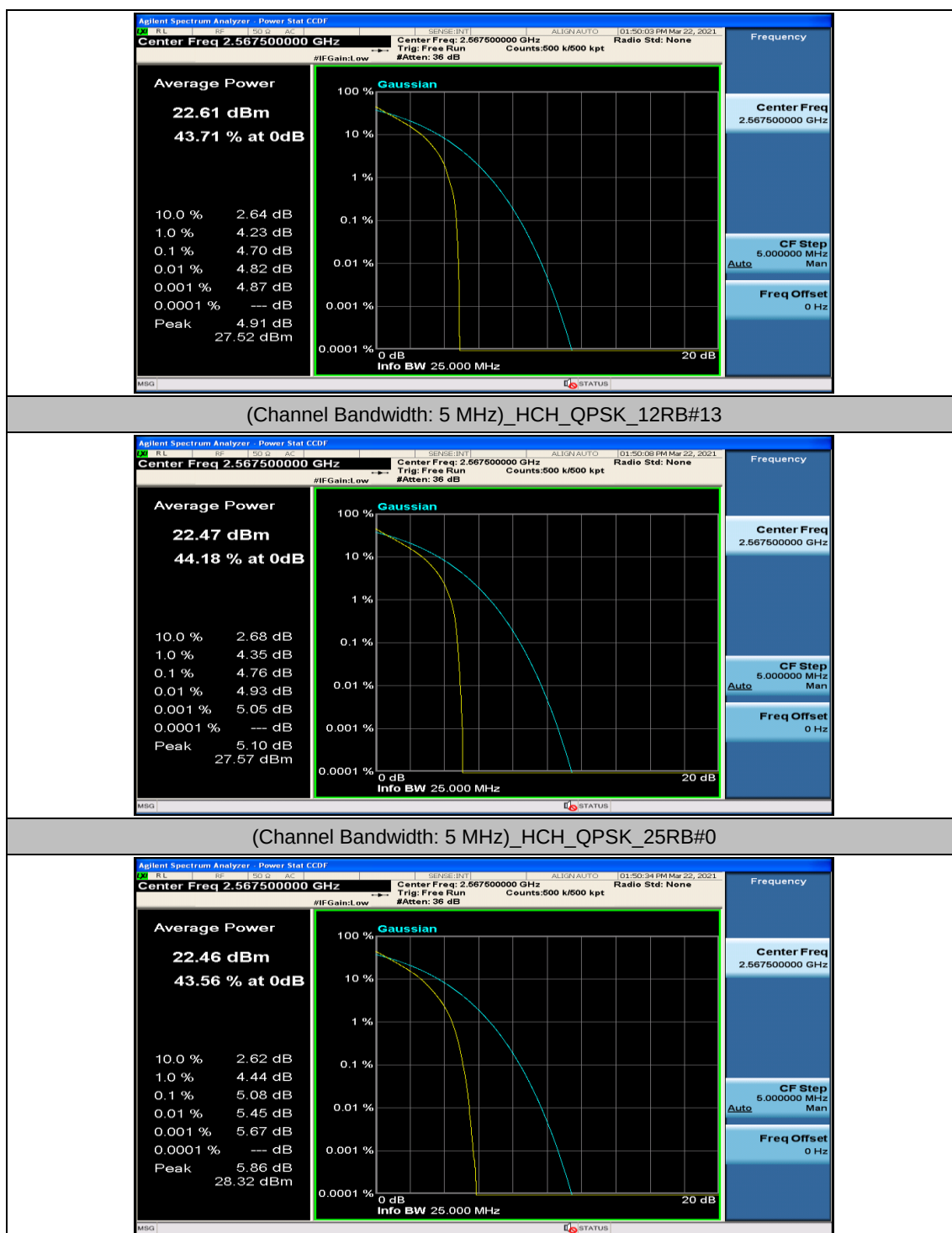


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

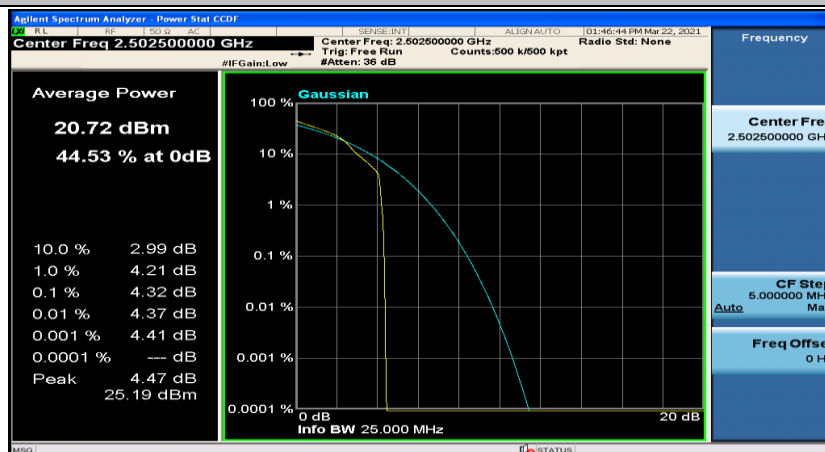


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

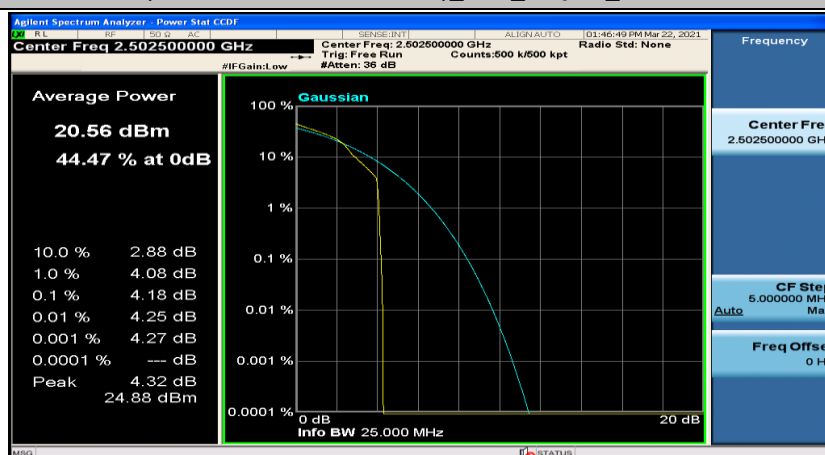




(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



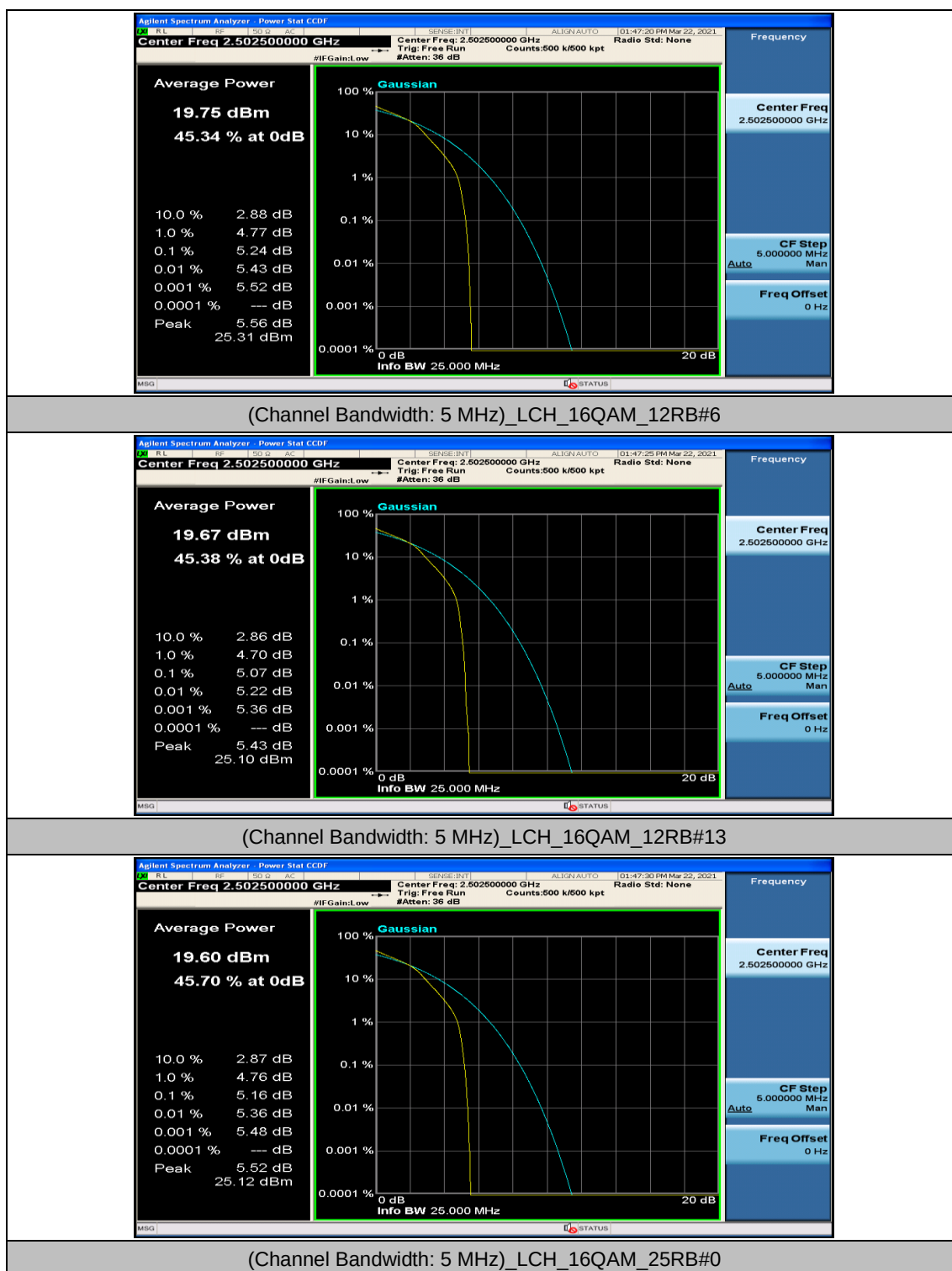
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

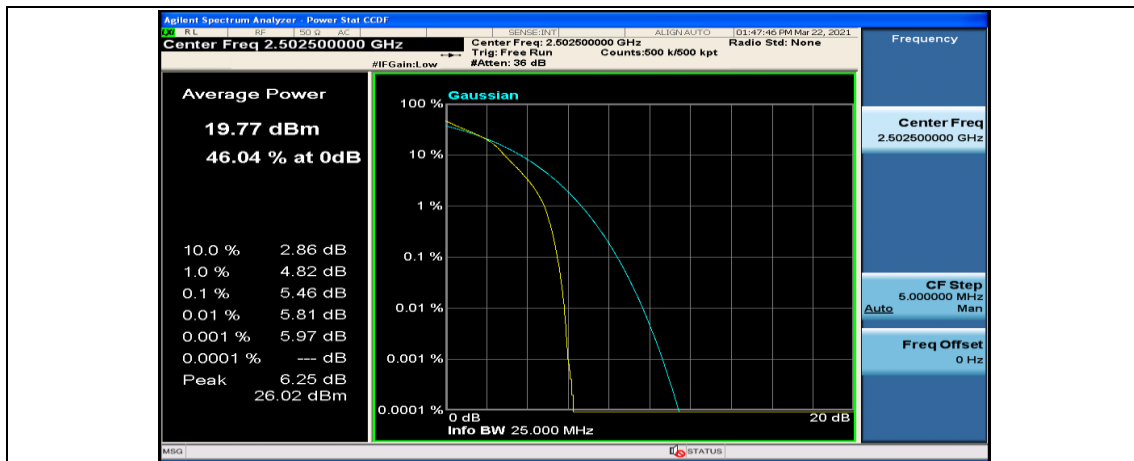


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

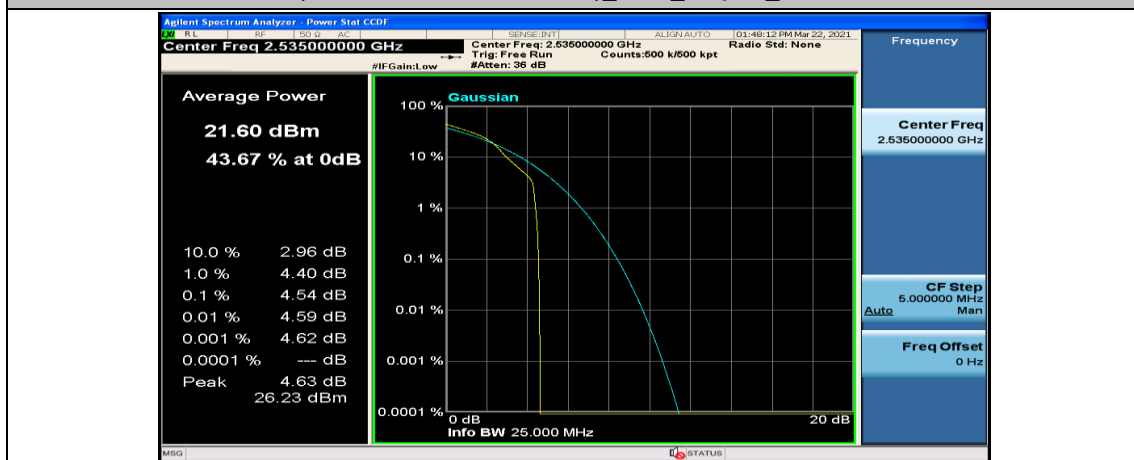


(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

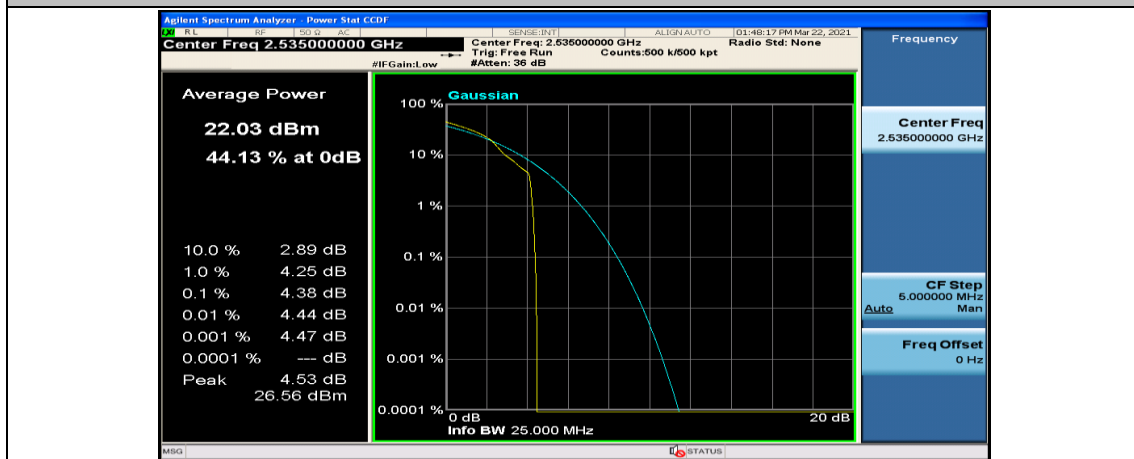




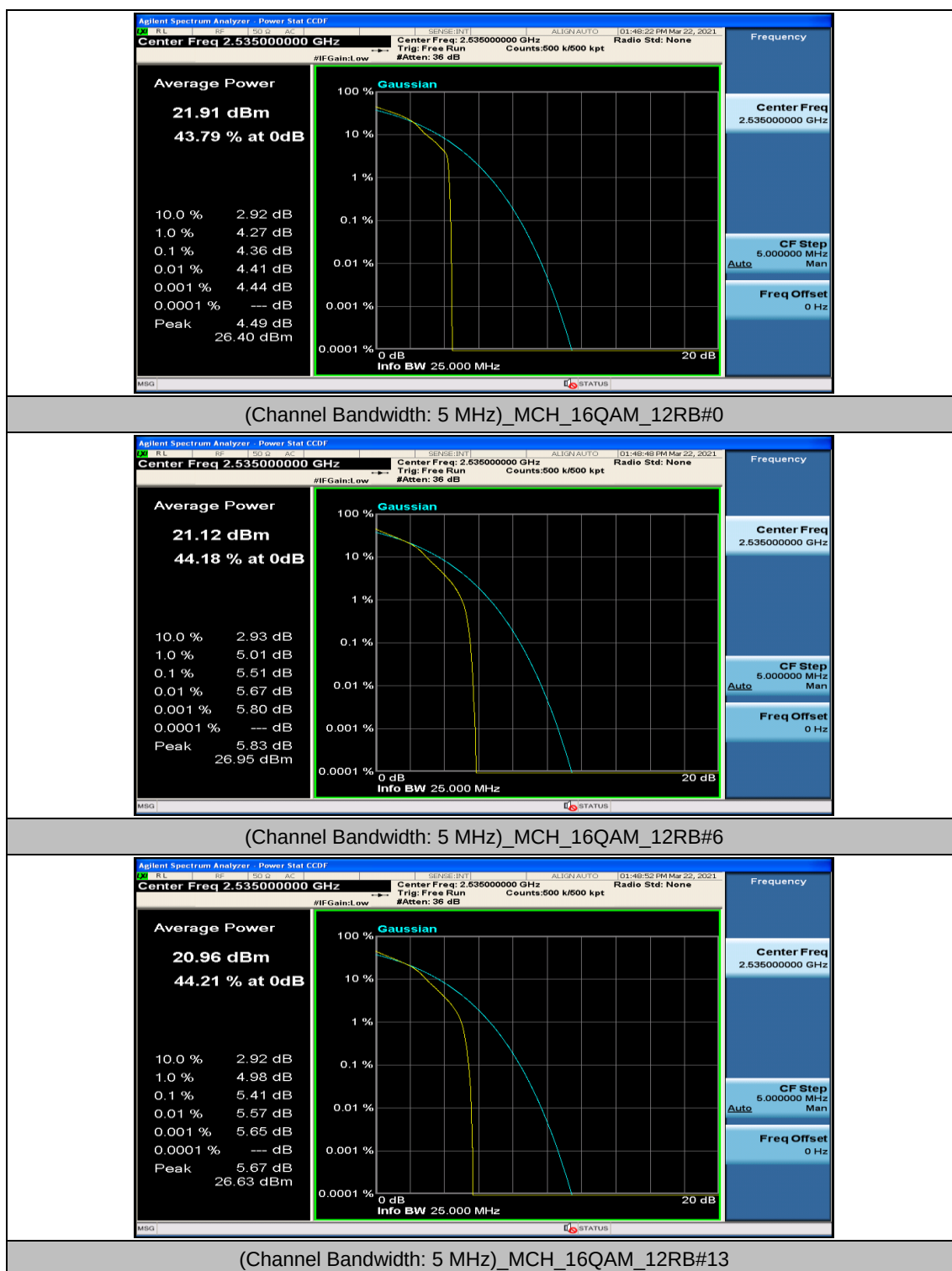
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

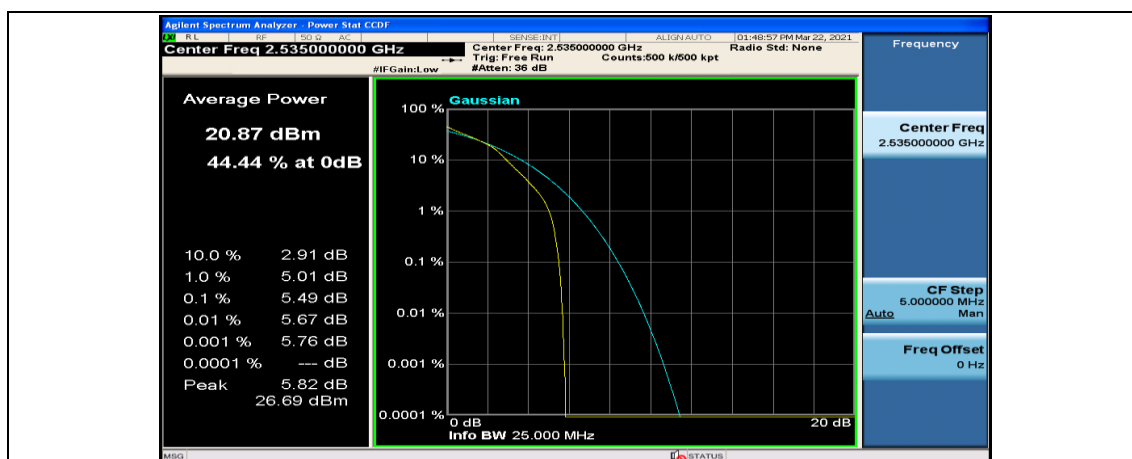


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

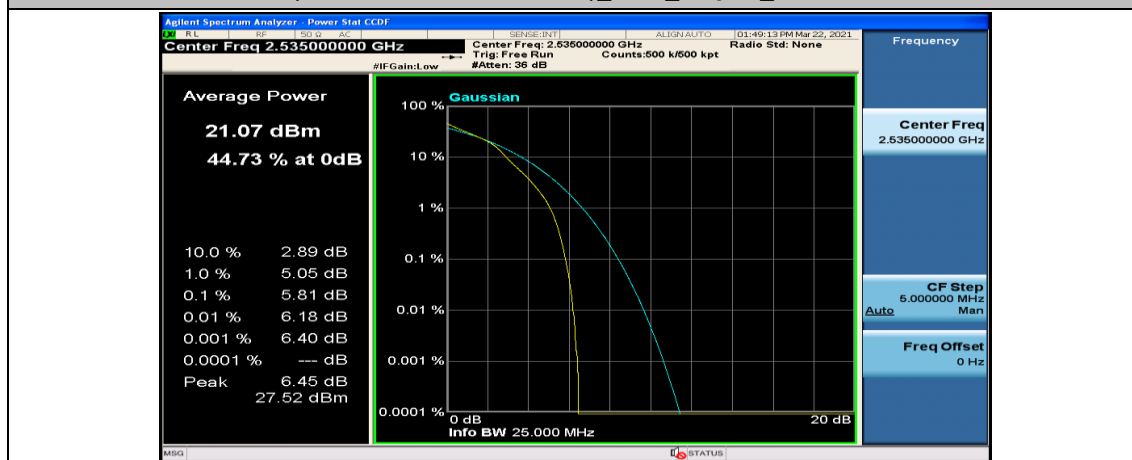


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

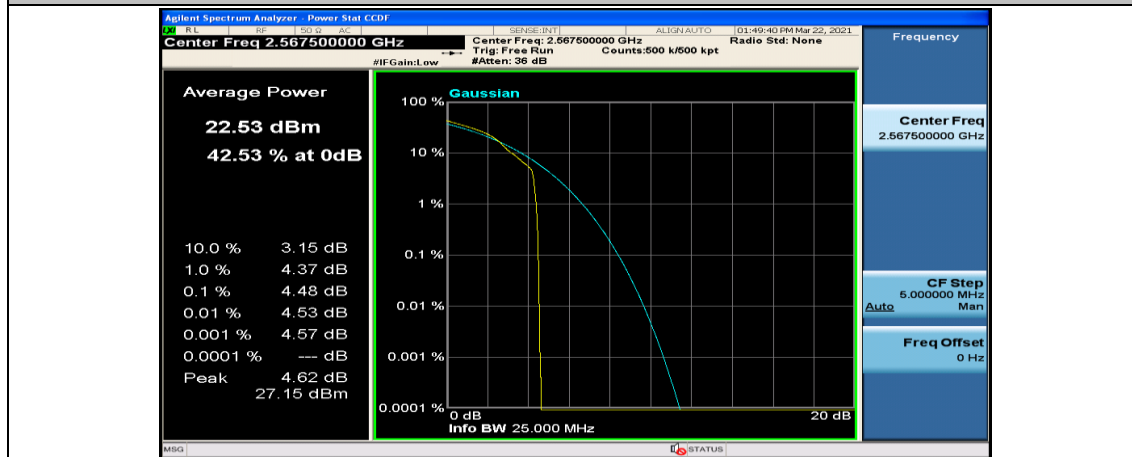




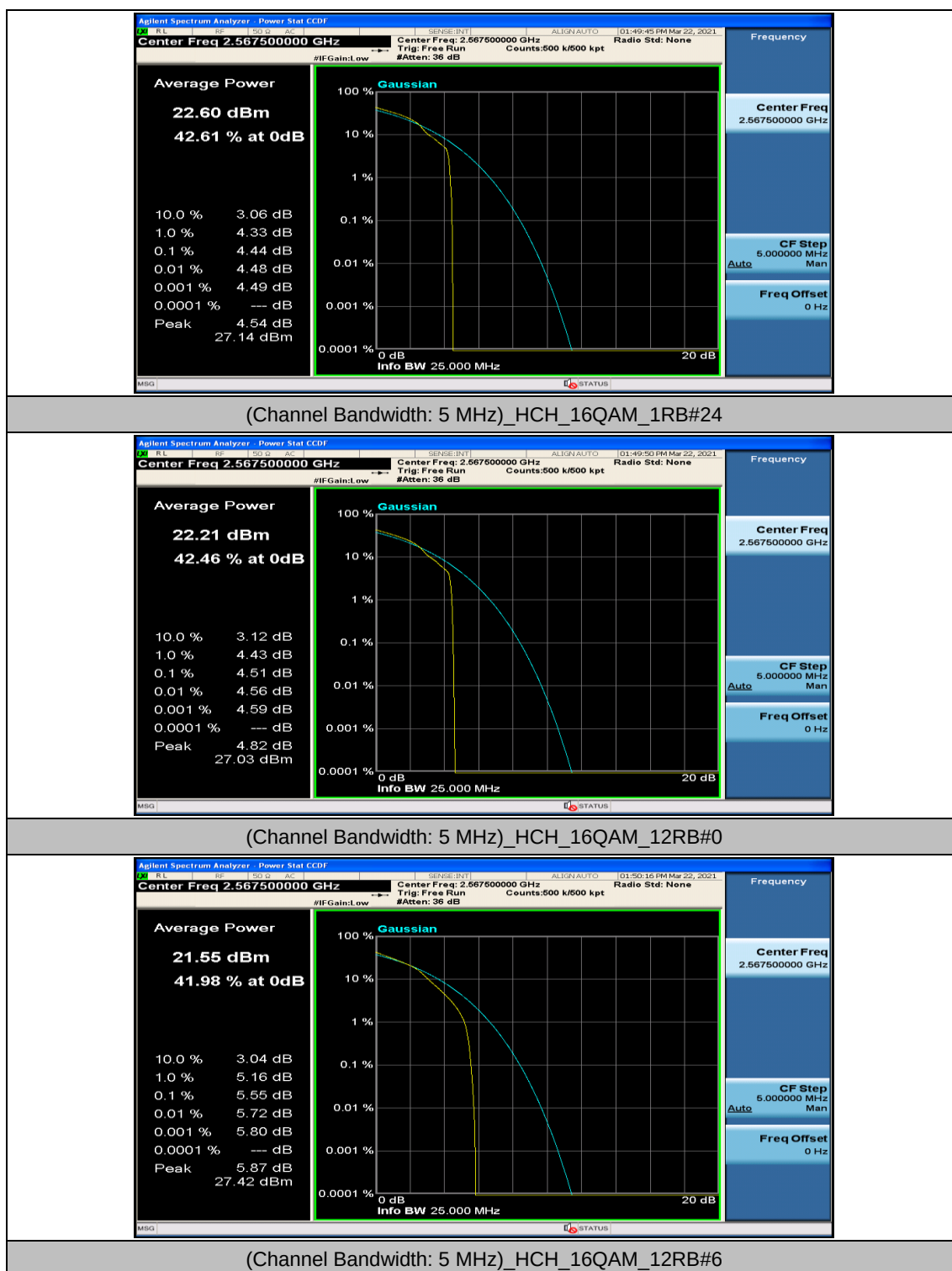
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

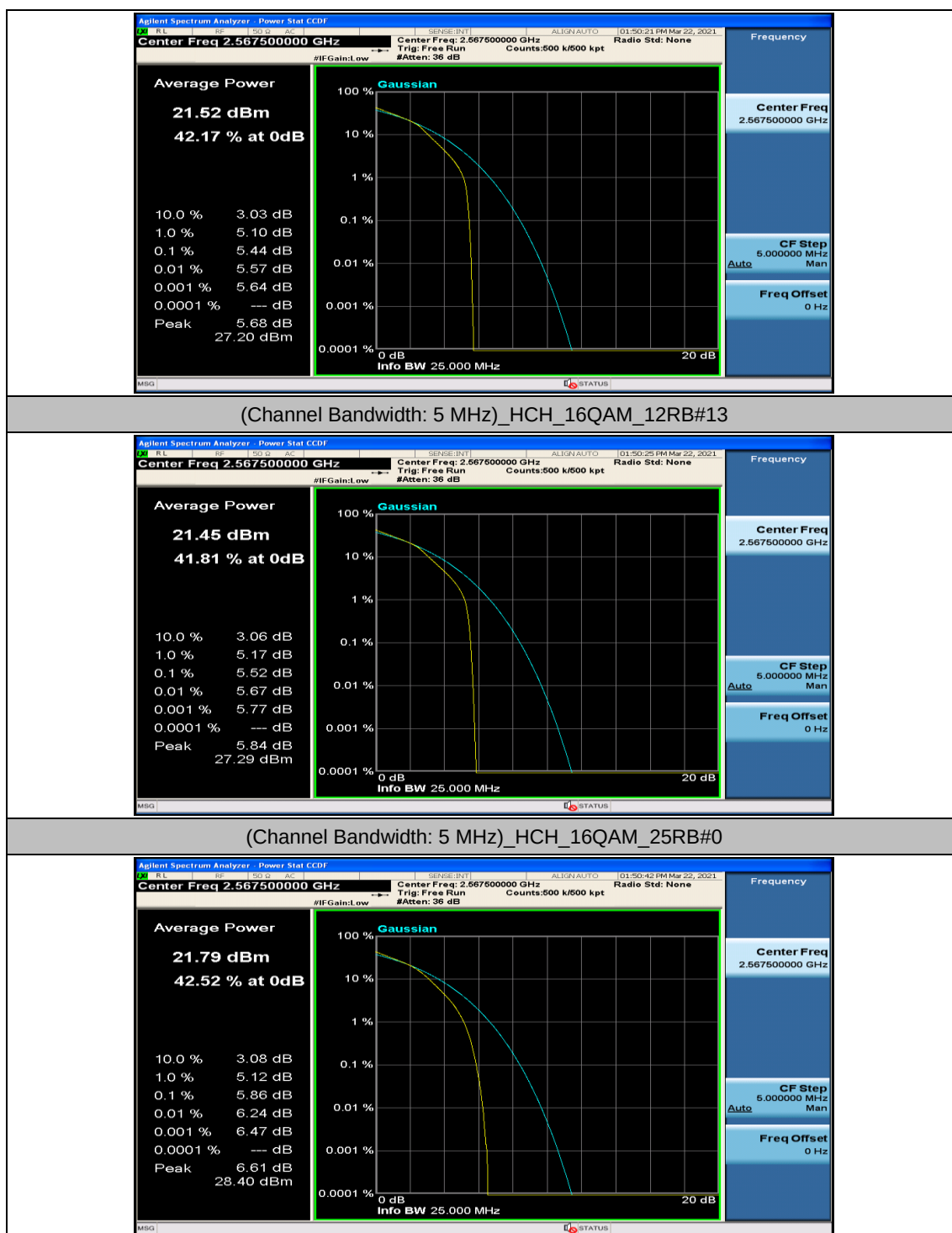


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

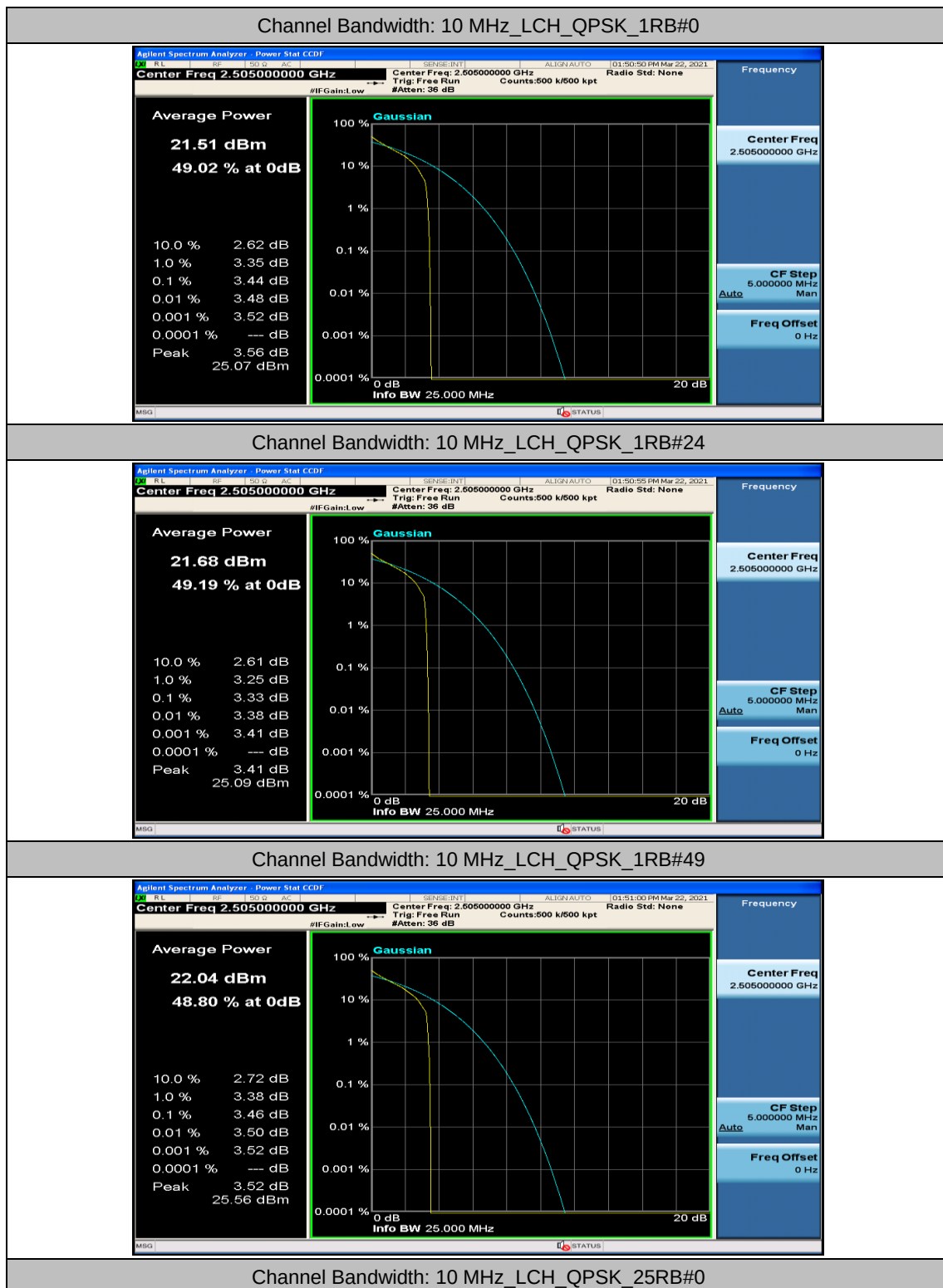


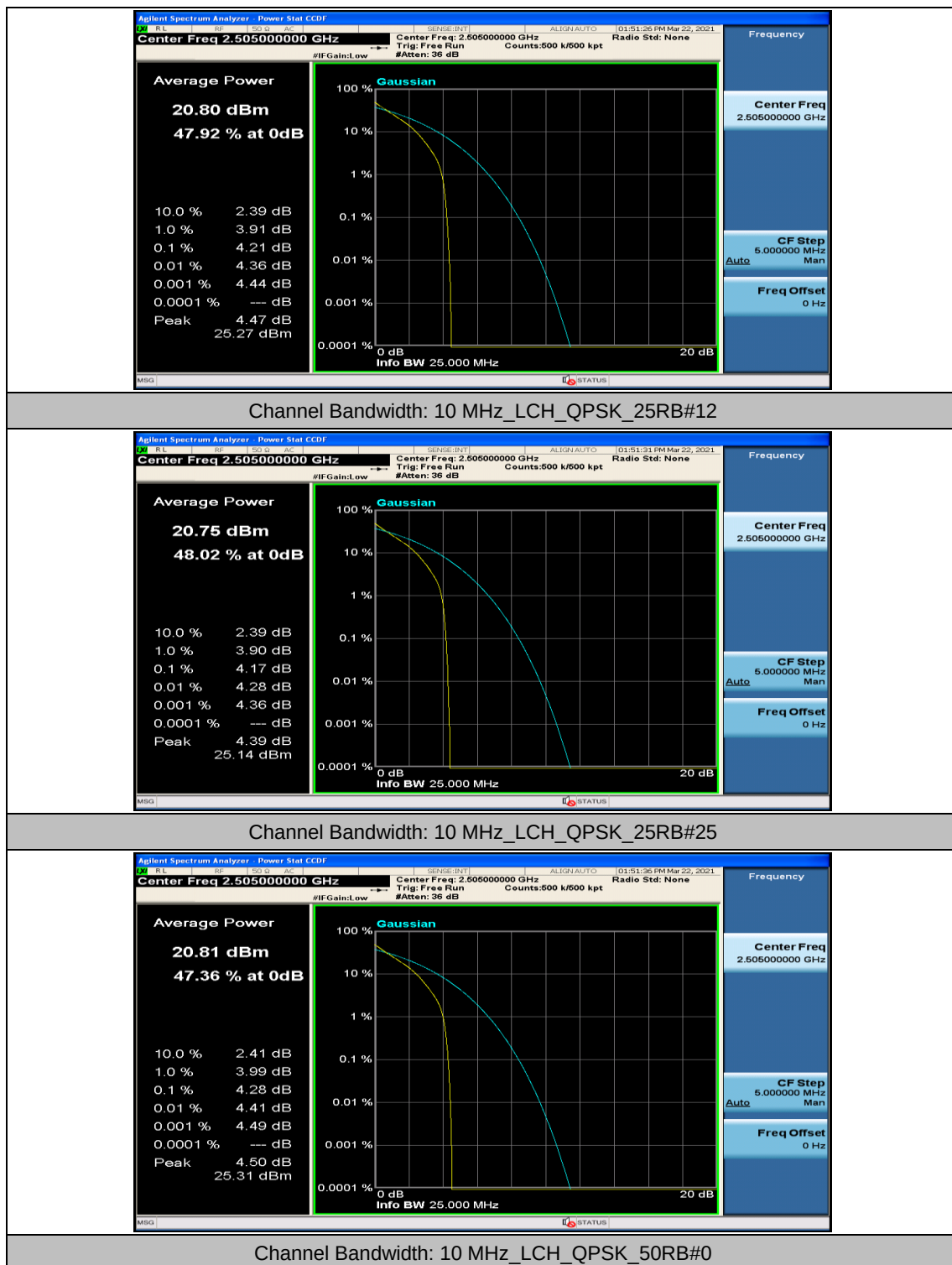
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12

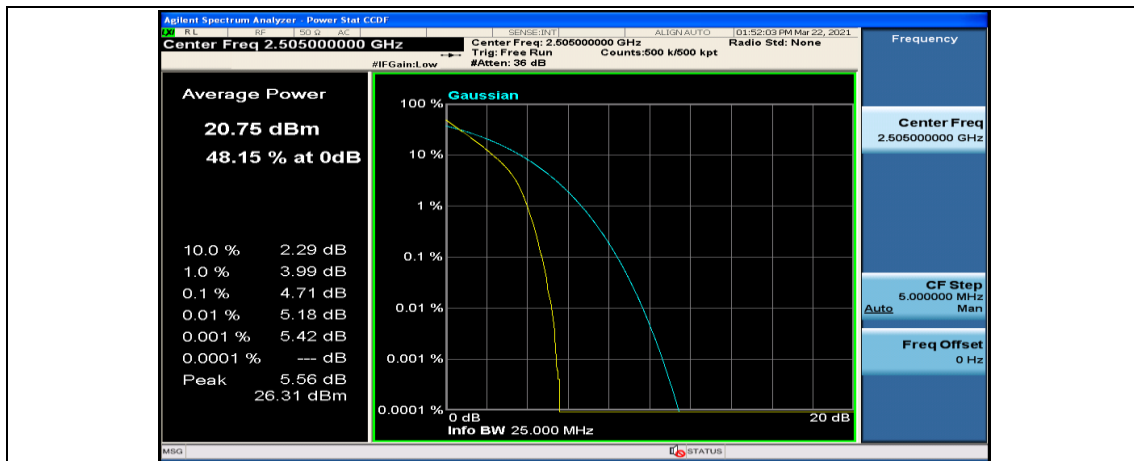




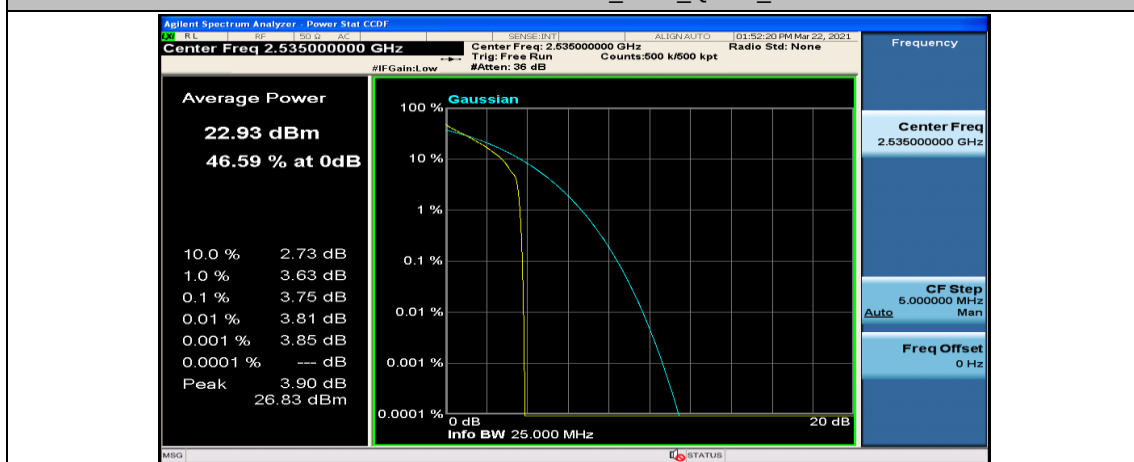
Channel Bandwidth: 10 MHz



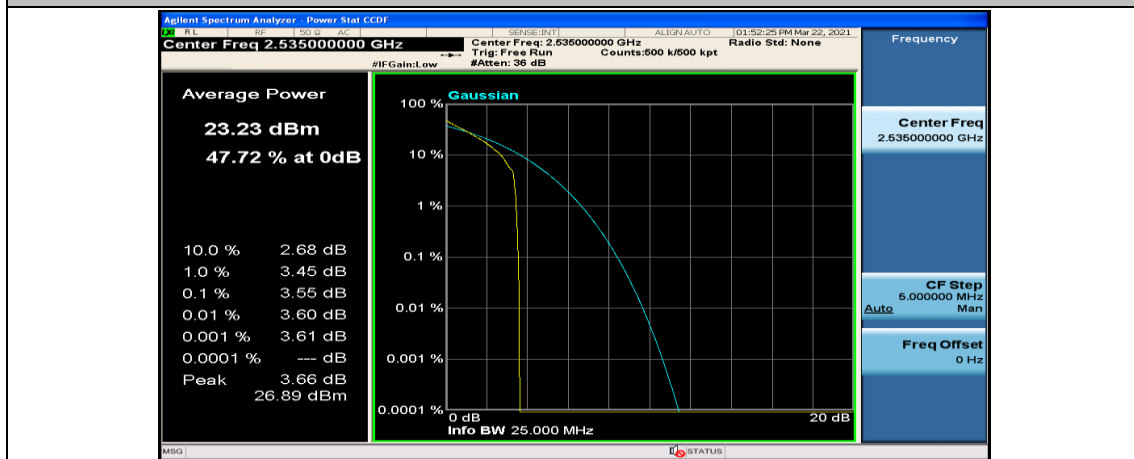




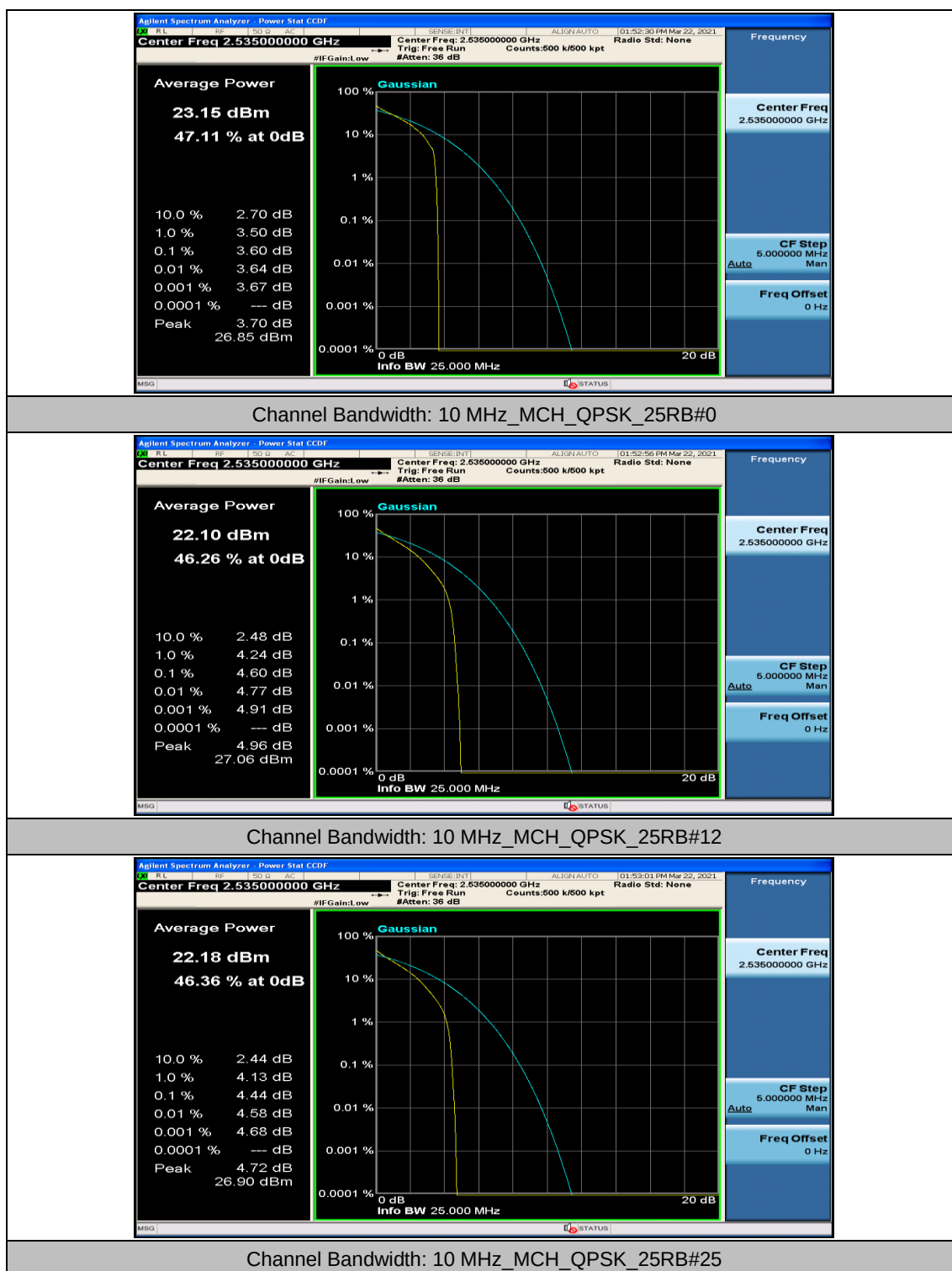
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

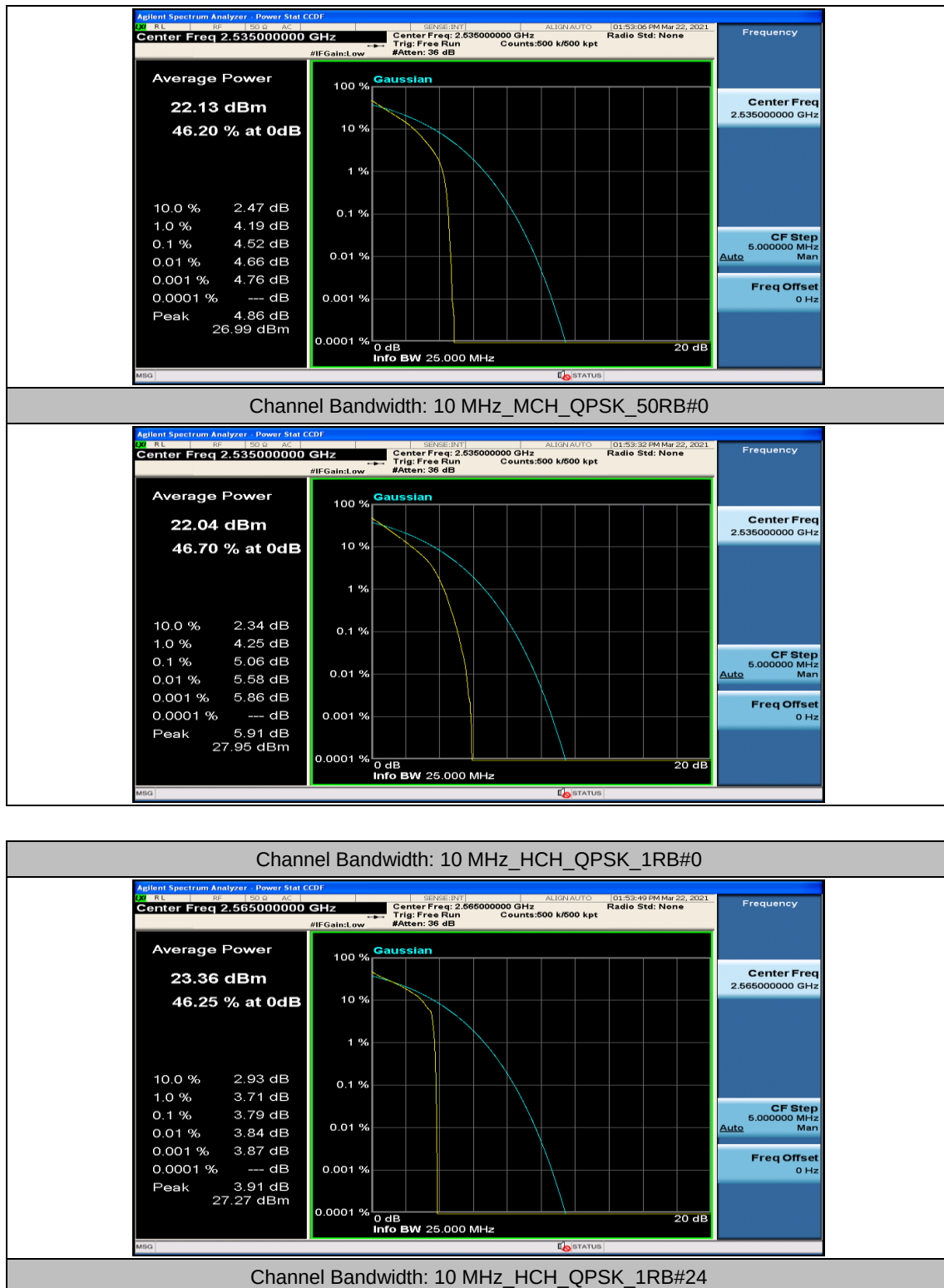


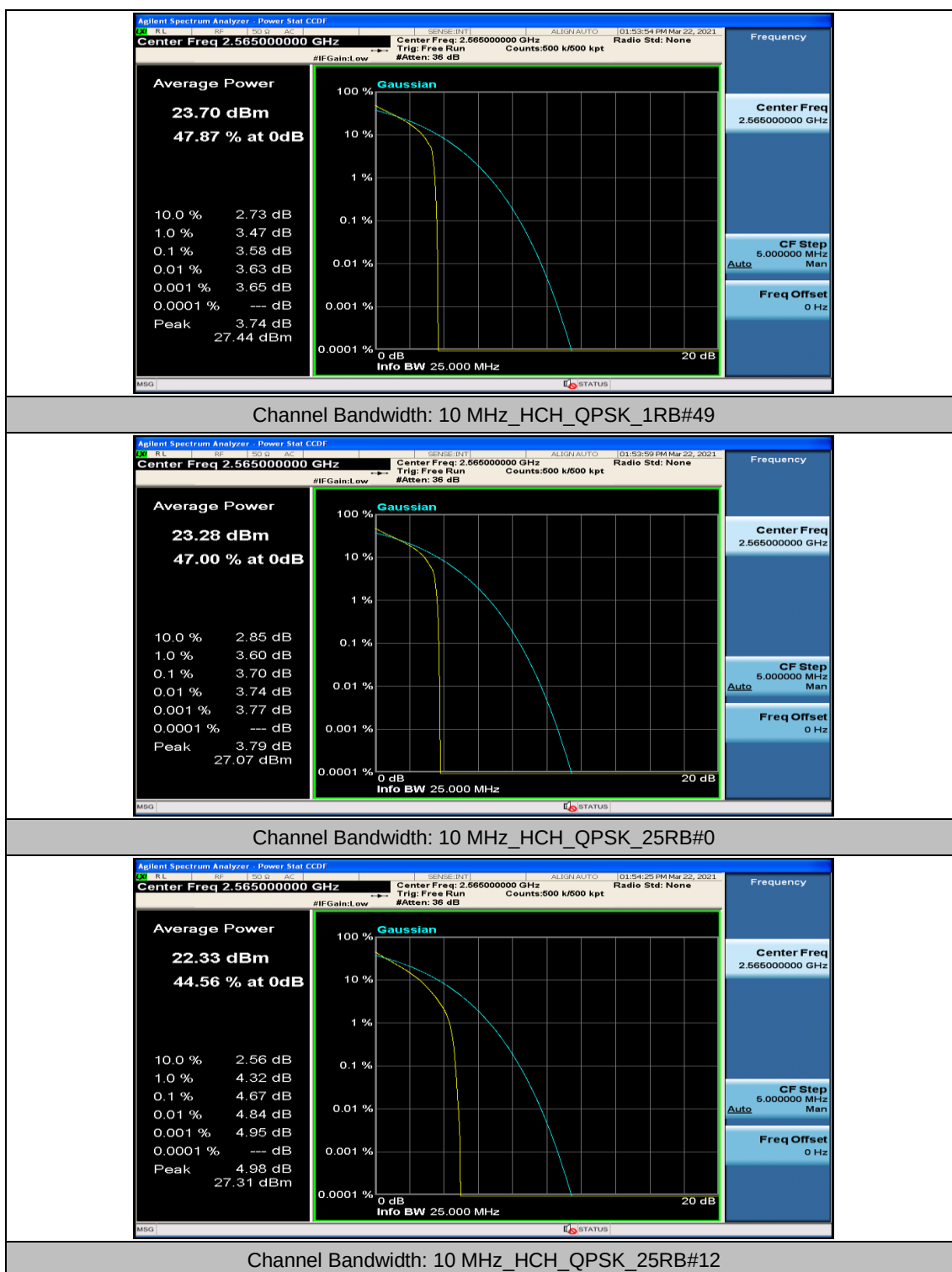
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

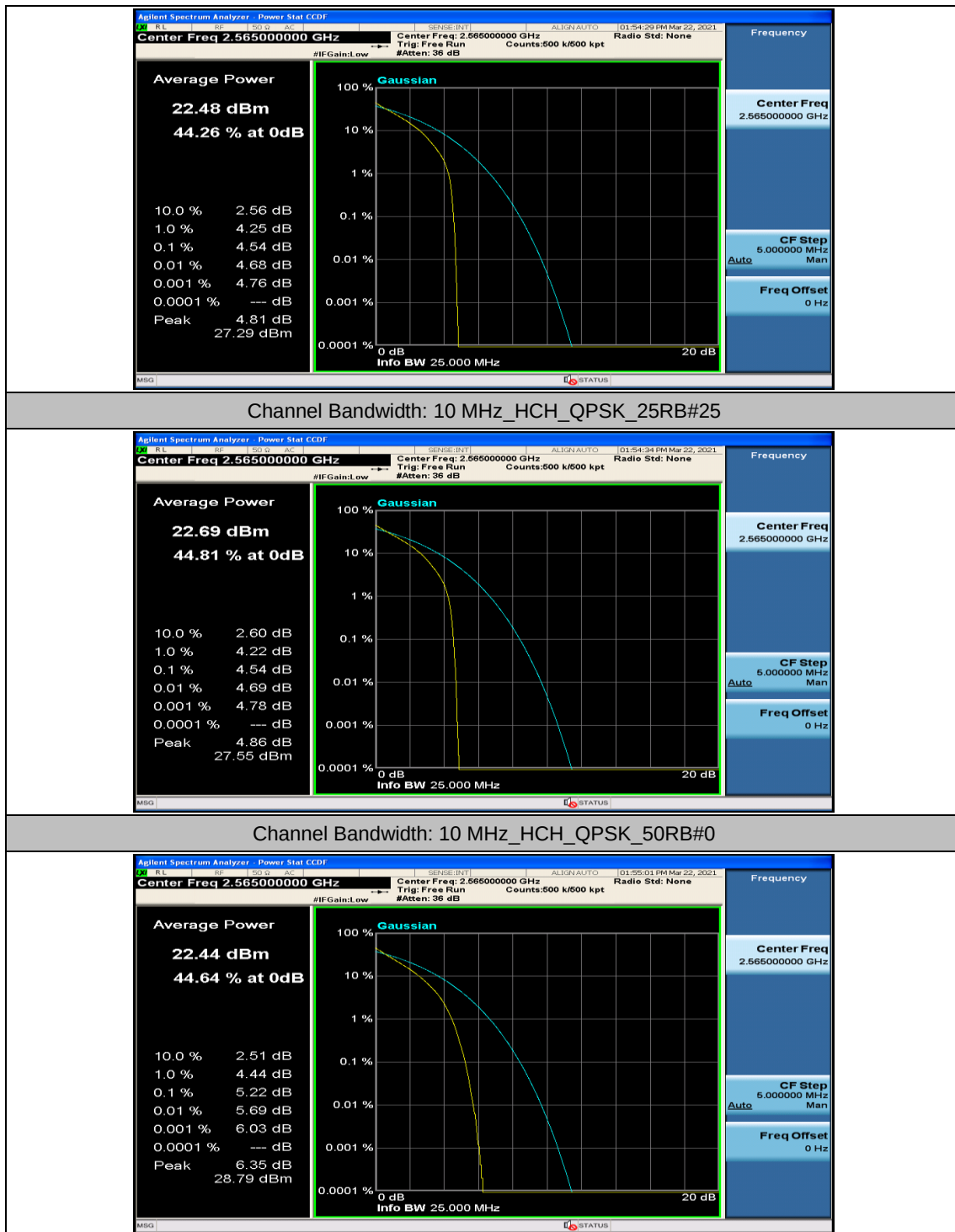


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

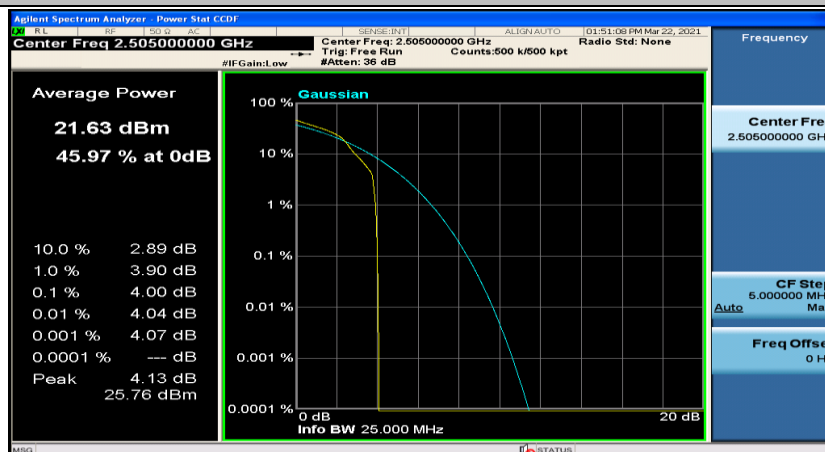




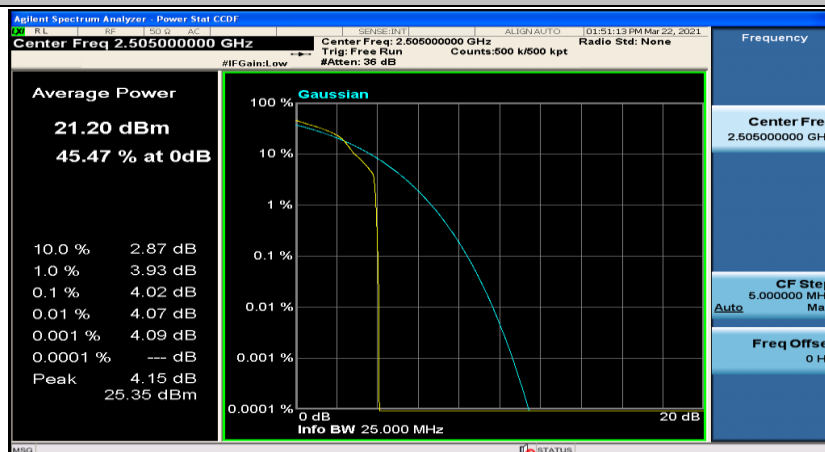




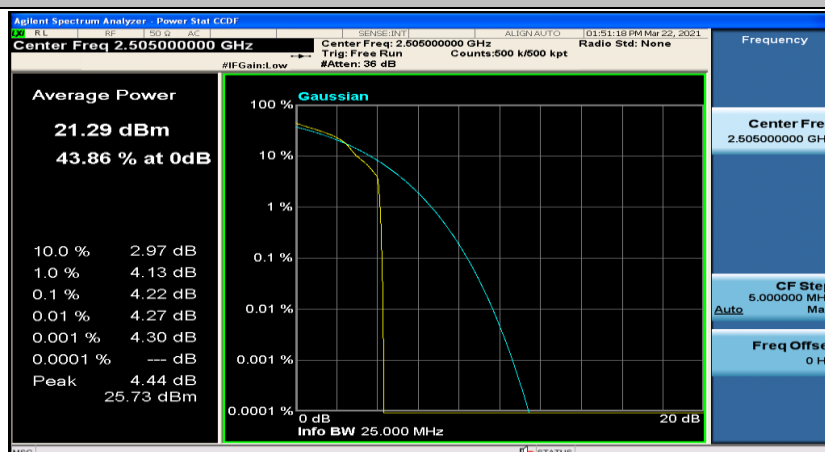
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



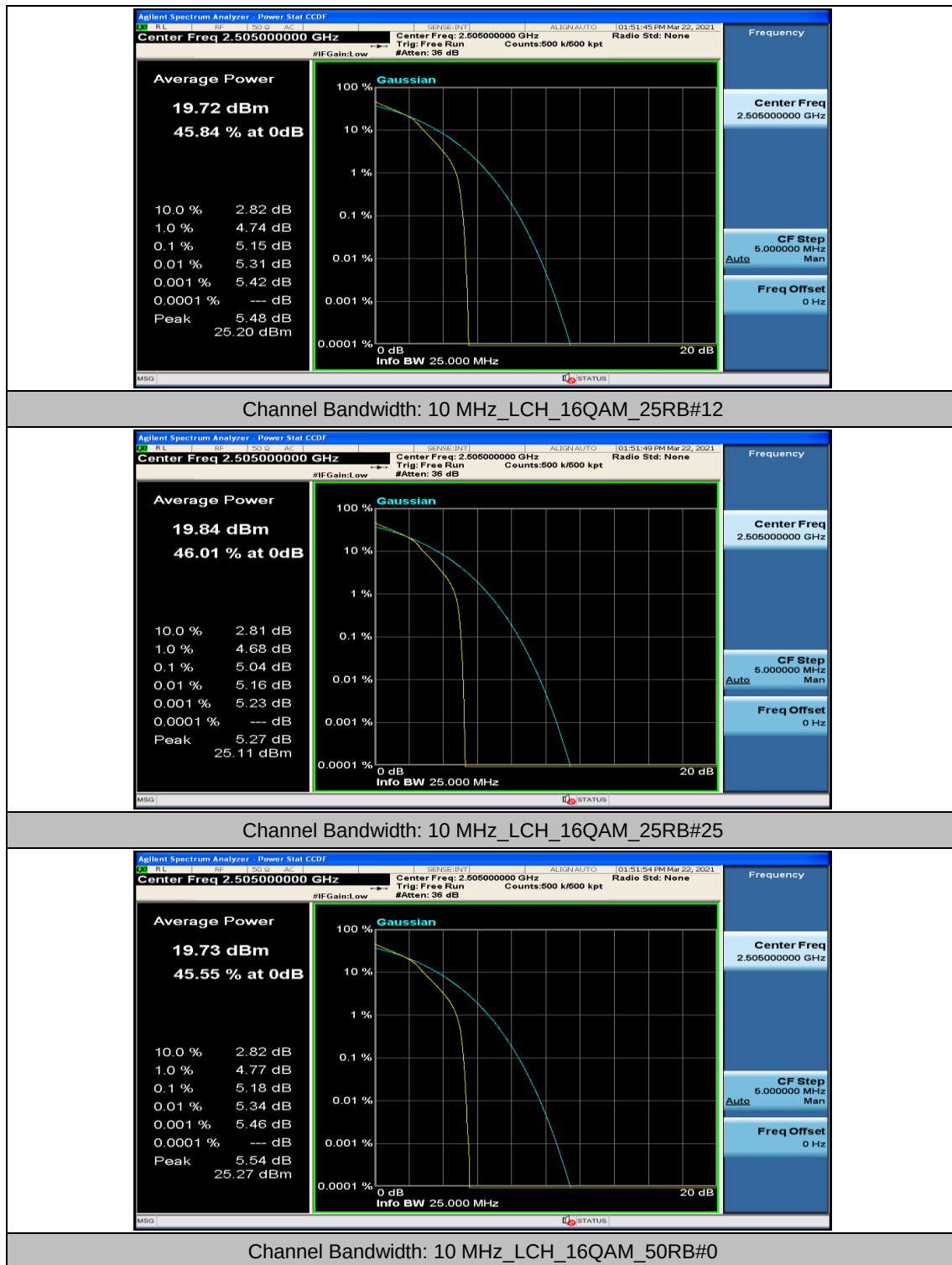
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

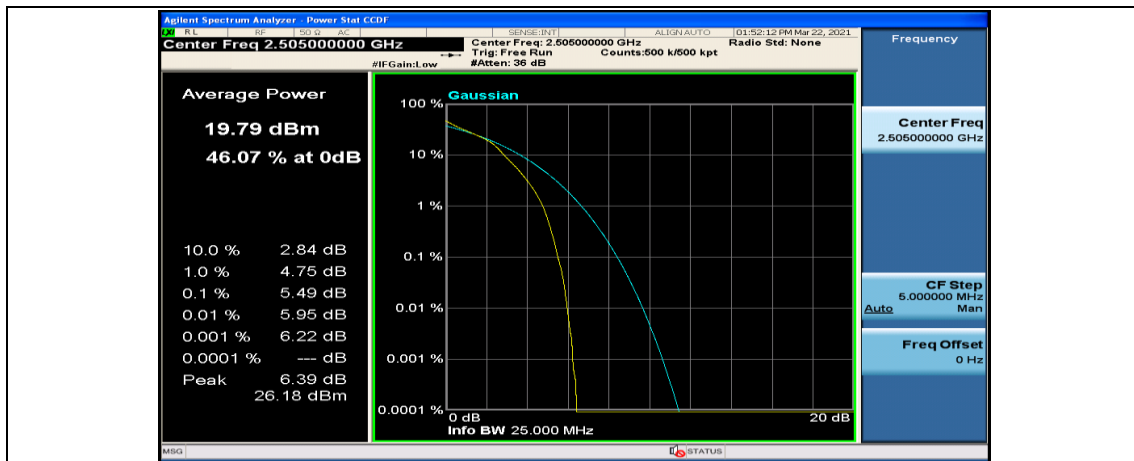


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

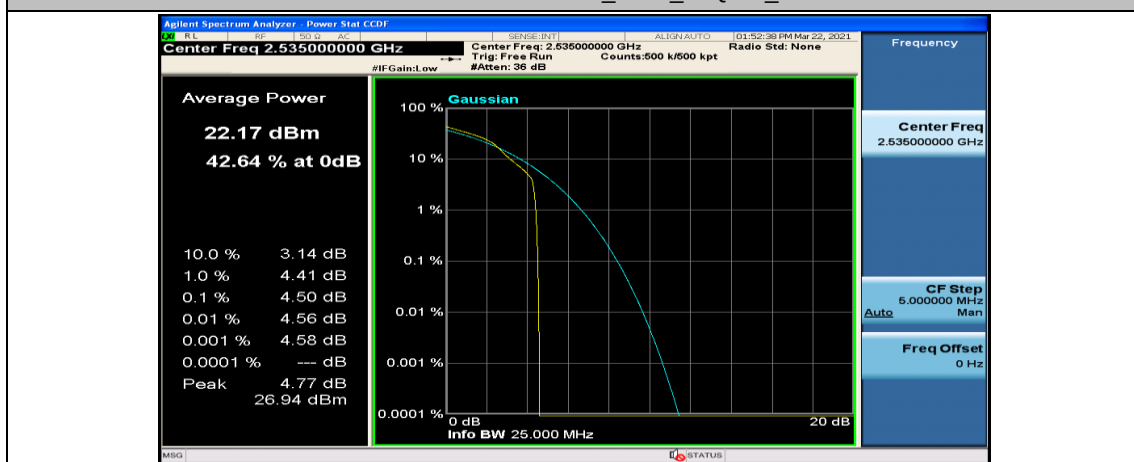


Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

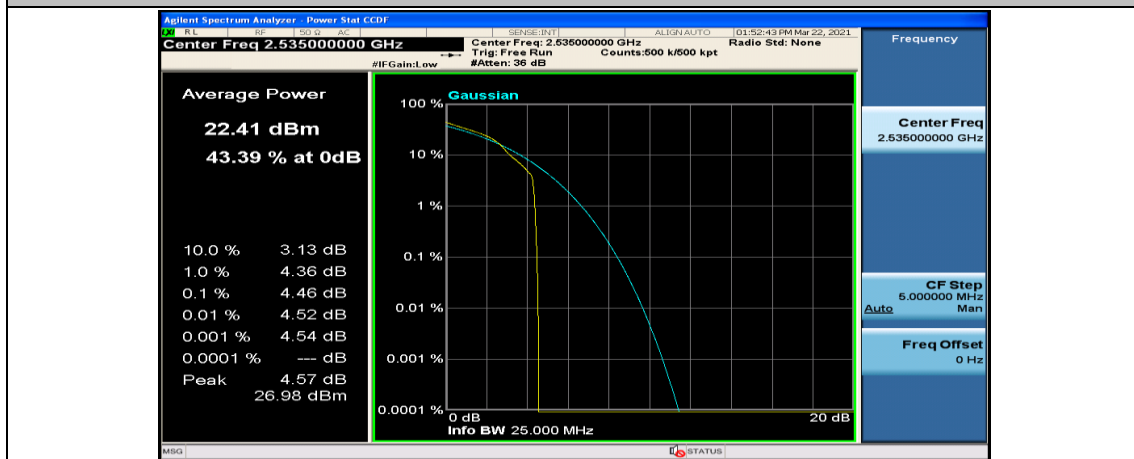




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

