

Appendix for Band 4

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	24.48	PASS
		1	3	24.44	PASS
		1	5	24.47	PASS
		3	0	23.42	PASS
		3	2	23.39	PASS
		3	3	23.4	PASS
		6	0	23.48	PASS
	MCH	1	0	24.43	PASS
		1	3	24.40	PASS
		1	5	24.44	PASS
		3	0	23.44	PASS
		3	2	23.38	PASS
		3	3	23.38	PASS
		6	0	23.43	PASS
16QAM	HCH	1	0	24.07	PASS
		1	3	24.01	PASS
		1	5	24.06	PASS
		3	0	23.95	PASS
		3	2	23.92	PASS
		3	3	23.92	PASS
		6	0	22.97	PASS
	LCH	1	0	23.57	PASS
		1	3	23.61	PASS
		1	5	23.59	PASS
		3	0	23.51	PASS
		3	2	23.44	PASS
		3	3	23.45	PASS
		6	0	22.37	PASS
	MCH	1	0	23.56	PASS
		1	3	23.61	PASS
		1	5	23.59	PASS
		3	0	23.37	PASS

		3	2	23.32	PASS
		3	3	23.35	PASS
		6	0	22.46	PASS
HCH	HCH	1	0	23.09	PASS
		1	3	23.11	PASS
		1	5	23.08	PASS
		3	0	22.99	PASS
		3	2	22.94	PASS
		3	3	22.93	PASS
		6	0	21.89	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.39	PASS
		1	7	24.43	PASS
		1	14	24.41	PASS
		8	0	23.47	PASS
		8	4	23.48	PASS
		8	7	23.47	PASS
		15	0	23.45	PASS
	MCH	1	0	24.44	PASS
		1	7	24.48	PASS
		1	14	24.40	PASS
		8	0	23.40	PASS
		8	4	23.41	PASS
		8	7	23.41	PASS
		15	0	23.34	PASS
	HCH	1	0	24.03	PASS
		1	7	23.97	PASS
		1	14	23.93	PASS
		8	0	23.00	PASS
		8	4	22.98	PASS
		8	7	22.98	PASS
		15	0	22.97	PASS
16QAM	LCH	1	0	23.55	PASS
		1	7	23.60	PASS
		1	14	23.58	PASS
		8	0	22.48	PASS
		8	4	22.52	PASS
		8	7	22.48	PASS
		15	0	22.37	PASS

	MCH	1	0	23.61	PASS
		1	7	23.64	PASS
		1	14	23.61	PASS
		8	0	22.37	PASS
		8	4	22.34	PASS
		8	7	22.36	PASS
		15	0	22.31	PASS
	HCH	1	0	23.21	PASS
		1	7	23.17	PASS
		1	14	23.08	PASS
		8	0	21.94	PASS
		8	4	21.90	PASS
		8	7	21.91	PASS
		15	0	21.96	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.53	PASS
		1	12	24.52	PASS
		1	24	24.45	PASS
		12	0	23.49	PASS
		12	6	23.48	PASS
		12	13	23.48	PASS
		25	0	23.44	PASS
	MCH	1	0	24.51	PASS
		1	12	24.47	PASS
		1	24	24.43	PASS
		12	0	23.41	PASS
		12	6	23.42	PASS
		12	13	23.40	PASS
		25	0	23.35	PASS
	HCH	1	0	24.23	PASS
		1	12	24.13	PASS
		1	24	24.04	PASS
		12	0	23.10	PASS
		12	6	23.07	PASS
		12	13	23.03	PASS
		25	0	23.00	PASS
16QAM	LCH	1	0	23.65	PASS
		1	12	23.68	PASS
		1	24	23.60	PASS

		12	0	22.49	PASS
		12	6	22.47	PASS
		12	13	22.46	PASS
		25	0	22.39	PASS
MCH	MCH	1	0	23.61	PASS
		1	12	23.61	PASS
		1	24	23.55	PASS
		12	0	22.48	PASS
		12	6	22.47	PASS
		12	13	22.47	PASS
		25	0	22.34	PASS
HCH	HCH	1	0	23.35	PASS
		1	12	23.24	PASS
		1	24	23.13	PASS
		12	0	22.09	PASS
		12	6	22.06	PASS
		12	13	22.01	PASS
		25	0	22.03	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.40	PASS
		1	24	24.50	PASS
		1	49	24.47	PASS
		25	0	23.46	PASS
		25	12	23.48	PASS
		25	25	23.44	PASS
		50	0	23.45	PASS
QPSK	MCH	1	0	24.50	PASS
		1	24	24.50	PASS
		1	49	24.05	PASS
		25	0	23.39	PASS
		25	12	23.38	PASS
		25	25	23.36	PASS
		50	0	23.34	PASS
QPSK	HCH	1	0	23.98	PASS
		1	24	24.17	PASS
		1	49	23.99	PASS
		25	0	23.16	PASS
		25	12	23.11	PASS
		25	25	23.02	PASS

		50	0	23.09	PASS
16QAM	LCH	1	0	23.68	PASS
		1	24	23.64	PASS
		1	49	23.61	PASS
		25	0	22.42	PASS
		25	12	22.42	PASS
		25	25	22.40	PASS
		50	0	22.40	PASS
	MCH	1	0	23.72	PASS
		1	24	23.73	PASS
		1	49	23.60	PASS
		25	0	22.38	PASS
		25	12	22.37	PASS
		25	25	22.35	PASS
		50	0	22.36	PASS
	HCH	1	0	23.30	PASS
		1	24	23.38	PASS
		1	49	23.16	PASS
		25	0	22.16	PASS
		25	12	22.09	PASS
		25	25	22.02	PASS
		50	0	22.13	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.55	PASS
		1	37	24.49	PASS
		1	74	24.46	PASS
		37	0	23.59	PASS
		37	18	23.58	PASS
		37	38	23.59	PASS
		75	0	23.58	PASS
	MCH	1	0	24.57	PASS
		1	37	24.49	PASS
		1	74	24.16	PASS
		37	0	23.50	PASS
		37	18	23.50	PASS
		37	38	23.46	PASS
		75	0	23.48	PASS
	HCH	1	0	23.71	PASS
		1	37	24.12	PASS

		1	74	24.02	PASS
		37	0	23.10	PASS
		37	18	23.27	PASS
		37	38	23.16	PASS
		75	0	23.24	PASS
16QAM	LCH	1	0	23.72	PASS
		1	37	23.66	PASS
		1	74	23.55	PASS
		37	0	22.50	PASS
		37	18	22.48	PASS
		37	38	22.49	PASS
		75	0	22.49	PASS
	MCH	1	0	23.68	PASS
		1	37	23.65	PASS
		1	74	23.49	PASS
		37	0	22.46	PASS
		37	18	22.46	PASS
		37	38	22.42	PASS
		75	0	22.42	PASS
	HCH	1	0	23.06	PASS
		1	37	23.44	PASS
		1	74	23.18	PASS
		37	0	22.16	PASS
		37	18	22.21	PASS
		37	38	22.13	PASS
		75	0	22.21	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.67	PASS
		1	49	24.59	PASS
		1	99	24.58	PASS
		50	0	23.95	PASS
		50	25	23.98	PASS
		50	50	23.88	PASS
		100	0	23.46	PASS
	MCH	1	0	24.66	PASS
		1	49	24.57	PASS
		1	99	24.00	PASS
		50	0	23.41	PASS
		50	25	23.37	PASS

		50	50	23.32	PASS
		100	0	23.37	PASS
	HCH	1	0	23.97	PASS
		1	49	23.96	PASS
		1	99	24.02	PASS
		50	0	22.99	PASS
		50	25	23.15	PASS
16QAM	LCH	50	50	23.11	PASS
		100	0	23.24	PASS
	MCH	1	0	23.79	PASS
		1	49	23.71	PASS
		1	99	23.64	PASS
		50	0	22.42	PASS
		50	25	22.39	PASS
	HCH	50	50	22.34	PASS
		100	0	22.39	PASS
	HCH	1	0	23.77	PASS
		1	49	23.71	PASS
		1	99	23.44	PASS
		50	0	22.44	PASS
		50	25	22.40	PASS
	MCH	50	50	22.35	PASS
		100	0	22.36	PASS
	HCH	1	0	23.35	PASS
		1	49	23.35	PASS
		1	99	23.16	PASS
		50	0	22.09	PASS
		50	25	22.21	PASS
	LCH	50	50	22.12	PASS
		100	0	22.23	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	3.94	<13	PASS
		1	3	3.92	<13	PASS
		1	5	3.9	<13	PASS
		3	0	4.29	<13	PASS
		3	2	4.29	<13	PASS
		3	3	4.28	<13	PASS
		6	0	4.69	<13	PASS
	MCH	1	0	3.89	<13	PASS
		1	3	3.93	<13	PASS
		1	5	3.86	<13	PASS
		3	0	4.11	<13	PASS
		3	2	4.18	<13	PASS
		3	3	4.17	<13	PASS
		6	0	4.56	<13	PASS
16QAM	LCH	1	0	3.64	<13	PASS
		1	3	3.61	<13	PASS
		1	5	3.51	<13	PASS
		3	0	3.86	<13	PASS
		3	2	3.84	<13	PASS
		3	3	3.72	<13	PASS
		6	0	4.58	<13	PASS
	MCH	1	0	4.72	<13	PASS
		1	3	4.67	<13	PASS
		1	5	4.81	<13	PASS
		3	0	5.07	<13	PASS
		3	2	5.18	<13	PASS
		3	3	5.17	<13	PASS
		6	0	5.64	<13	PASS

		3	2	4.86	<13	PASS
		3	3	4.99	<13	PASS
		6	0	5.36	<13	PASS
HCH		1	0	4.74	<13	PASS
		1	3	4.68	<13	PASS
		1	5	4.75	<13	PASS
		3	0	4.78	<13	PASS
		3	2	4.95	<13	PASS
		3	3	4.81	<13	PASS
		6	0	5.46	<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	4.09	<13	PASS
		1	7	4.16	<13	PASS
		1	14	4.08	<13	PASS
		8	0	4.79	<13	PASS
		8	4	4.85	<13	PASS
		8	7	4.81	<13	PASS
		15	0	4.83	<13	PASS
	MCH	1	0	3.72	<13	PASS
		1	7	3.71	<13	PASS
		1	14	3.75	<13	PASS
		8	0	4.54	<13	PASS
		8	4	4.57	<13	PASS
		8	7	4.64	<13	PASS
		15	0	4.67	<13	PASS
	HCH	1	0	3.92	<13	PASS
		1	7	3.77	<13	PASS
		1	14	3.63	<13	PASS
		8	0	4.67	<13	PASS
		8	4	4.67	<13	PASS
		8	7	4.52	<13	PASS
		15	0	4.56	<13	PASS
16QAM	LCH	1	0	4.8	<13	PASS
		1	7	4.82	<13	PASS
		1	14	4.79	<13	PASS
		8	0	5.49	<13	PASS
		8	4	5.5	<13	PASS

		8	7	5.48	<13	PASS
		15	0	5.75	<13	PASS
MCH		1	0	4.54	<13	PASS
		1	7	4.51	<13	PASS
		1	14	4.7	<13	PASS
		8	0	5.29	<13	PASS
		8	4	5.36	<13	PASS
		8	7	5.29	<13	PASS
		15	0	5.49	<13	PASS
HCH		1	0	4.76	<13	PASS
		1	7	4.71	<13	PASS
		1	14	4.46	<13	PASS
		8	0	5.69	<13	PASS
		8	4	5.58	<13	PASS
		8	7	5.51	<13	PASS
		15	0	5.44	<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	4.12	<13	PASS
		1	12	4.09	<13	PASS
		1	24	4.07	<13	PASS
		12	0	4.8	<13	PASS
		12	6	4.81	<13	PASS
		12	13	4.87	<13	PASS
		25	0	4.85	<13	PASS
	MCH	1	0	3.61	<13	PASS
		1	12	3.94	<13	PASS
		1	24	3.84	<13	PASS
		12	0	4.51	<13	PASS
		12	6	4.5	<13	PASS
		12	13	4.57	<13	PASS
		25	0	4.65	<13	PASS
	HCH	1	0	3.91	<13	PASS
		1	12	3.72	<13	PASS
		1	24	3.52	<13	PASS
		12	0	4.93	<13	PASS
		12	6	4.7	<13	PASS
		12	13	4.58	<13	PASS

		25	0	4.82	<13	PASS
16QAM	LCH	1	0	4.76	<13	PASS
		1	12	4.89	<13	PASS
		1	24	4.77	<13	PASS
		12	0	5.71	<13	PASS
		12	6	5.69	<13	PASS
		12	13	5.71	<13	PASS
		25	0	5.62	<13	PASS
	MCH	1	0	4.68	<13	PASS
		1	12	4.88	<13	PASS
		1	24	4.9	<13	PASS
		12	0	5.3	<13	PASS
		12	6	5.36	<13	PASS
		12	13	5.33	<13	PASS
		25	0	5.47	<13	PASS
	HCH	1	0	4.9	<13	PASS
		1	12	4.64	<13	PASS
		1	24	4.57	<13	PASS
		12	0	5.8	<13	PASS
		12	6	5.56	<13	PASS
		12	13	5.35	<13	PASS
		25	0	5.6	<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	3.98	<13	PASS
		1	24	3.9	<13	PASS
		1	49	3.86	<13	PASS
		25	0	4.84	<13	PASS
		25	12	4.76	<13	PASS
		25	25	4.7	<13	PASS
		50	0	4.77	<13	PASS
	MCH	1	0	3.54	<13	PASS
		1	24	3.64	<13	PASS
		1	49	3.95	<13	PASS
		25	0	4.6	<13	PASS
		25	12	4.6	<13	PASS
		25	25	4.67	<13	PASS
		50	0	4.65	<13	PASS

		1	0	4.32	<13	PASS
	HCH	1	24	4.05	<13	PASS
		1	49	3.52	<13	PASS
		25	0	4.99	<13	PASS
		25	12	4.91	<13	PASS
		25	25	4.71	<13	PASS
		50	0	4.91	<13	PASS
		1	0	4.85	<13	PASS
	LCH	1	24	4.83	<13	PASS
		1	49	4.52	<13	PASS
		25	0	5.73	<13	PASS
		25	12	5.64	<13	PASS
		25	25	5.62	<13	PASS
		50	0	5.59	<13	PASS
		1	0	4.46	<13	PASS
	MCH	1	24	4.51	<13	PASS
		1	49	4.66	<13	PASS
		25	0	5.45	<13	PASS
		25	12	5.46	<13	PASS
		25	25	5.52	<13	PASS
		50	0	5.46	<13	PASS
		1	0	5.05	<13	PASS
	HCH	1	24	4.82	<13	PASS
		1	49	4.43	<13	PASS
		25	0	5.91	<13	PASS
		25	12	5.89	<13	PASS
		25	25	5.66	<13	PASS
		50	0	5.8	<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	3.93	<13	PASS
		1	37	3.85	<13	PASS
		1	74	3.64	<13	PASS
		37	0	4.7	<13	PASS
		37	18	4.65	<13	PASS
		37	38	4.58	<13	PASS
		75	0	5.08	<13	PASS
	MCH	1	0	3.51	<13	PASS

		1	37	3.87	<13	PASS
		1	74	4.25	<13	PASS
		37	0	4.49	<13	PASS
		37	18	4.52	<13	PASS
		37	38	4.62	<13	PASS
		75	0	4.99	<13	PASS
		1	0	4.4	<13	PASS
		1	37	4.19	<13	PASS
		1	74	3.57	<13	PASS
		37	0	5.01	<13	PASS
		37	18	5.05	<13	PASS
		37	38	4.8	<13	PASS
		75	0	5.32	<13	PASS
		1	0	4.62	<13	PASS
		1	37	4.68	<13	PASS
16QAM	LCH	1	74	4.75	<13	PASS
		37	0	5.58	<13	PASS
		37	18	5.56	<13	PASS
		37	38	5.47	<13	PASS
		75	0	5.77	<13	PASS
	MCH	1	0	4.76	<13	PASS
		1	37	4.95	<13	PASS
		1	74	5.11	<13	PASS
		37	0	5.35	<13	PASS
		37	18	5.41	<13	PASS
		37	38	5.46	<13	PASS
		75	0	5.65	<13	PASS
	HCH	1	0	4.98	<13	PASS
		1	37	4.99	<13	PASS
		1	74	4.51	<13	PASS
		37	0	5.76	<13	PASS
		37	18	5.82	<13	PASS
		37	38	5.7	<13	PASS
		75	0	5.92	<13	PASS

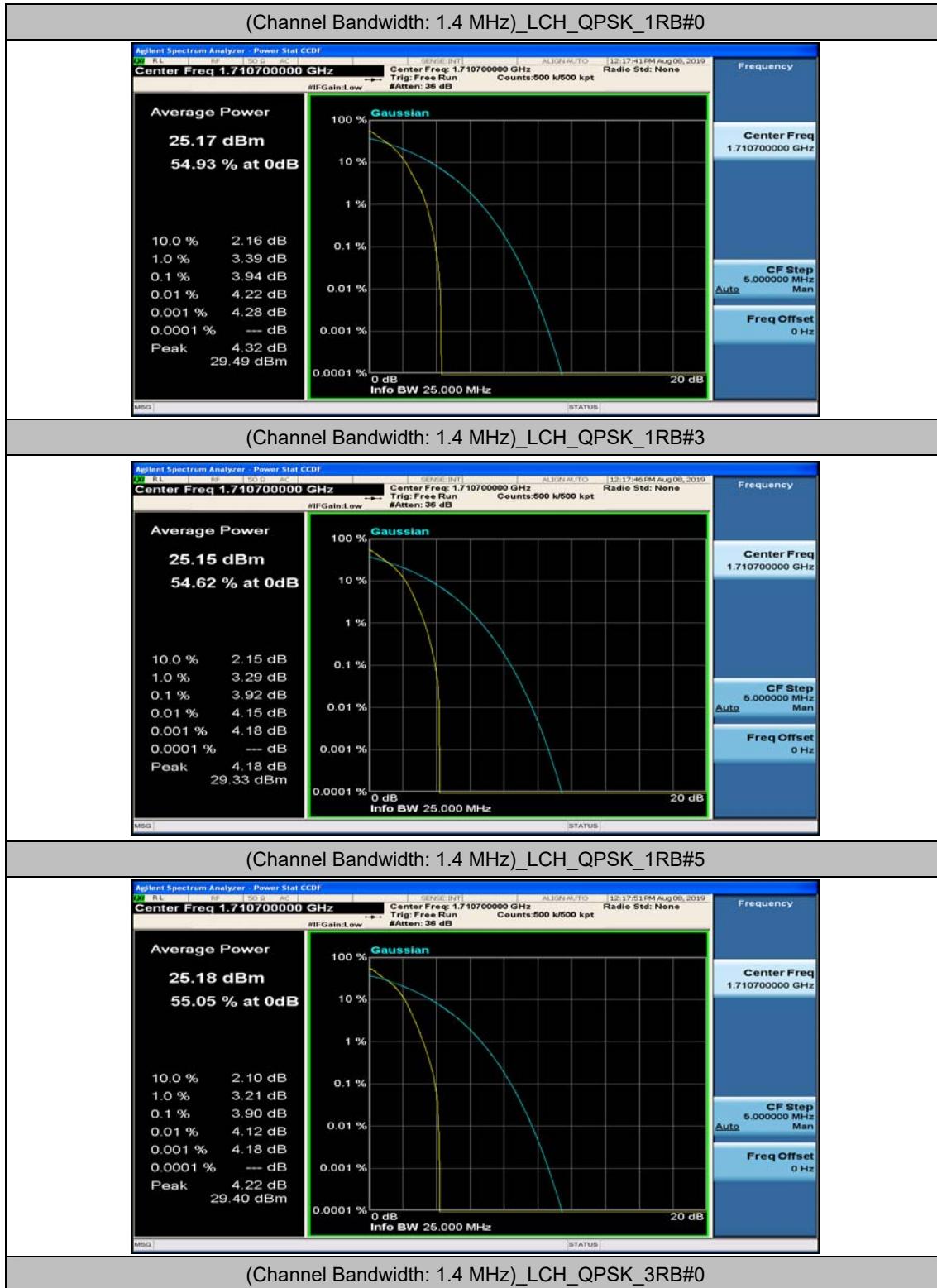
Channel Bandwidth: 20 MHz

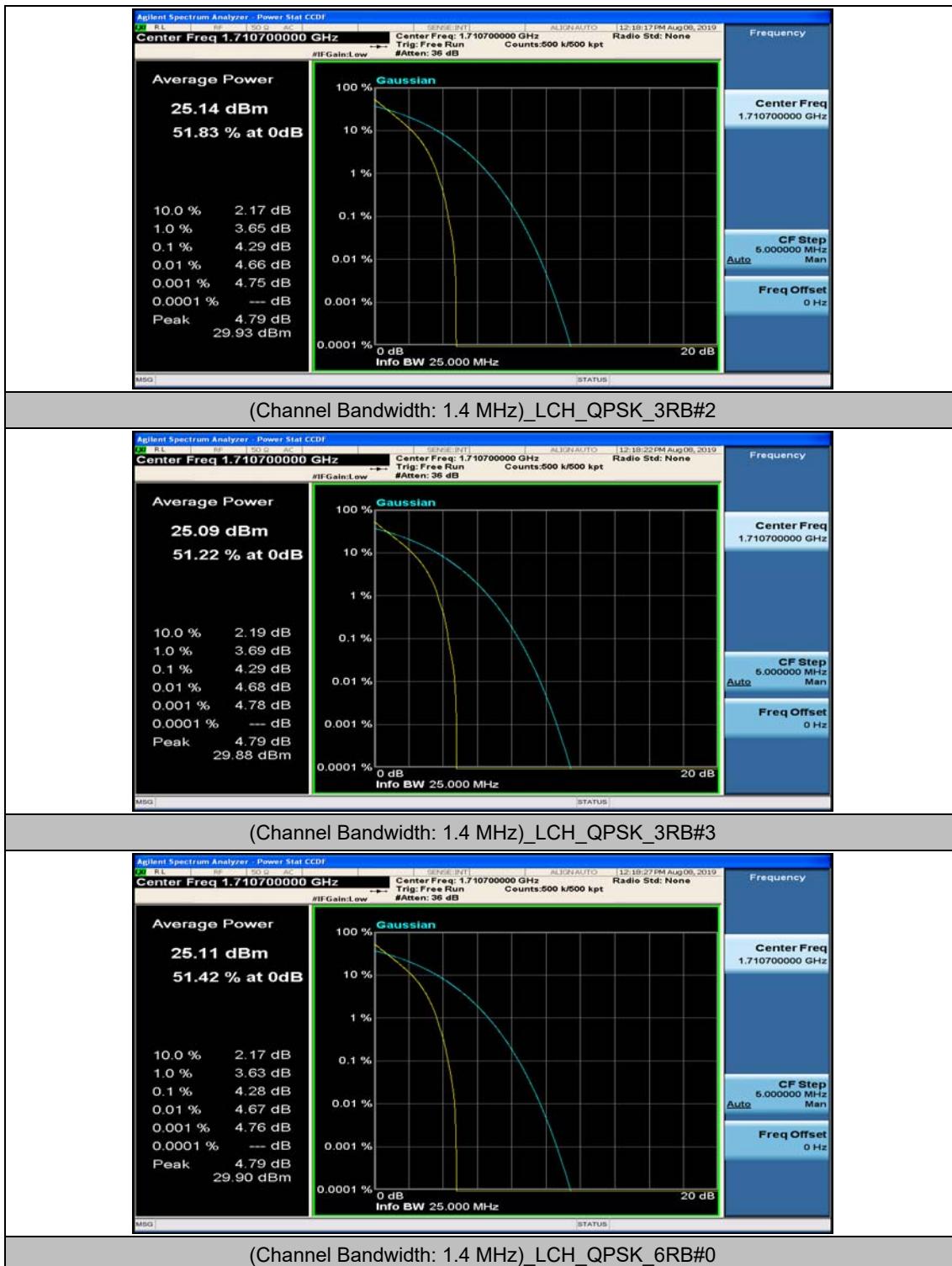
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.79	<13	PASS
		1	49	3.62	<13	PASS

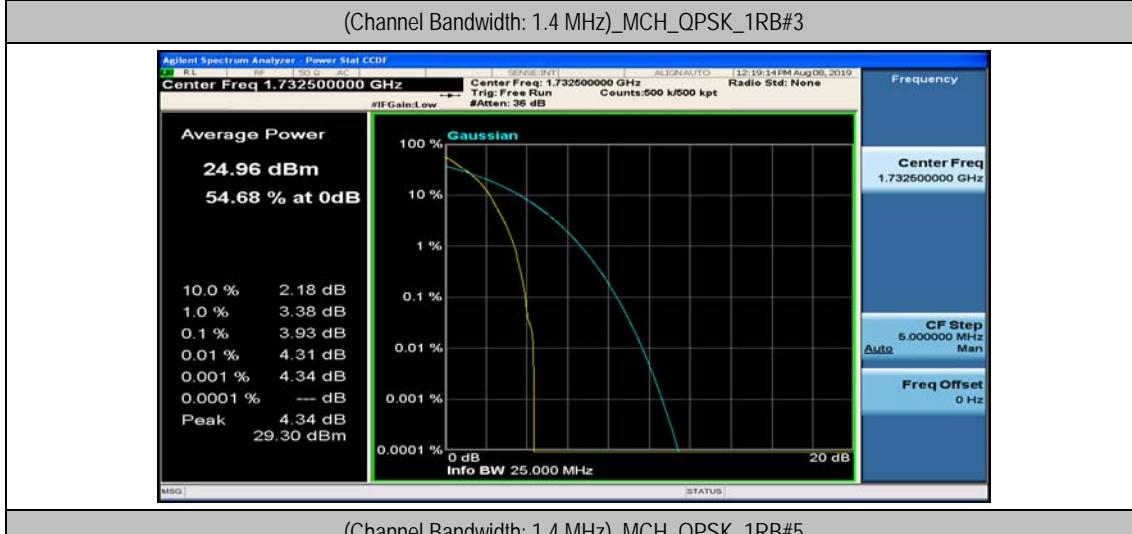
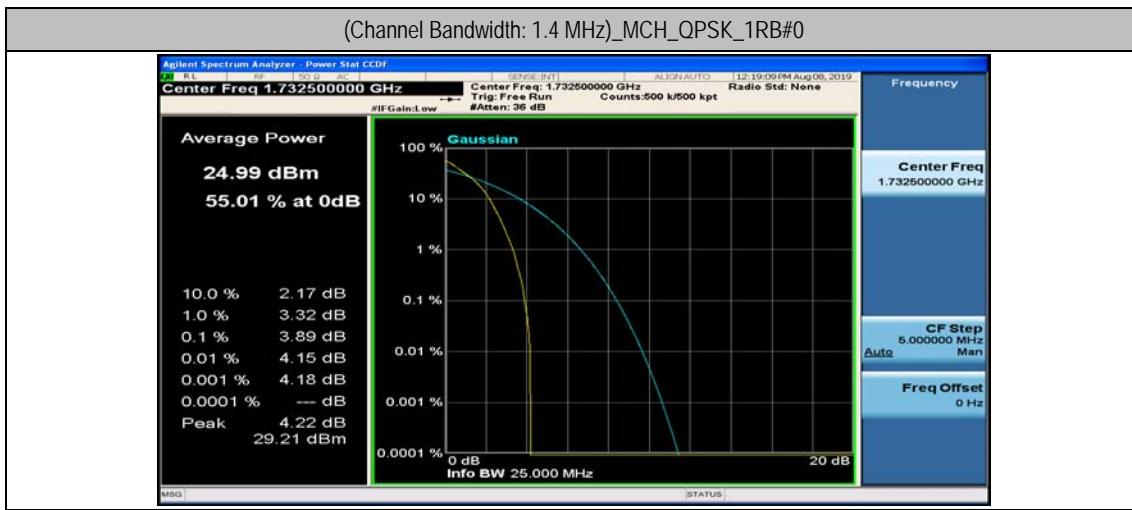
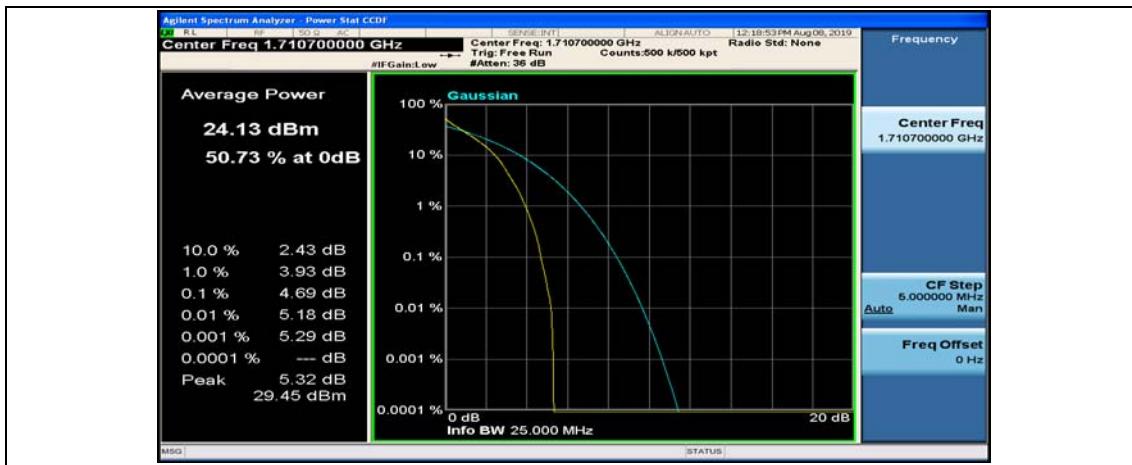
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		50	0	4.81	<13	PASS
		50	25	4.66	<13	PASS
		50	50	4.66	<13	PASS
		100	0	5.09	<13	PASS
	MCH	1	0	3.7	<13	PASS
		1	49	3.82	<13	PASS
		1	99	4.27	<13	PASS
		50	0	4.66	<13	PASS
		50	25	4.61	<13	PASS
		50	50	4.79	<13	PASS
		100	0	5.05	<13	PASS
	HCH	1	0	4.19	<13	PASS
		1	49	4.35	<13	PASS
		1	99	3.55	<13	PASS
		50	0	5.1	<13	PASS
		50	25	5.06	<13	PASS
		50	50	4.96	<13	PASS
		100	0	5.25	<13	PASS
	LCH	1	0	4.68	<13	PASS
		1	49	4.43	<13	PASS
		1	99	4.55	<13	PASS
		50	0	5.64	<13	PASS
		50	25	5.49	<13	PASS
		50	50	5.51	<13	PASS
		100	0	5.8	<13	PASS
	MCH	1	0	4.52	<13	PASS
		1	49	4.62	<13	PASS
		1	99	4.98	<13	PASS
		50	0	5.48	<13	PASS
		50	25	5.42	<13	PASS
		50	50	5.54	<13	PASS
		100	0	5.75	<13	PASS
	HCH	1	0	5.1	<13	PASS
		1	49	5.24	<13	PASS
		1	99	4.66	<13	PASS
		50	0	5.84	<13	PASS
		50	25	5.87	<13	PASS
		50	50	5.8	<13	PASS
		100	0	6	<13	PASS

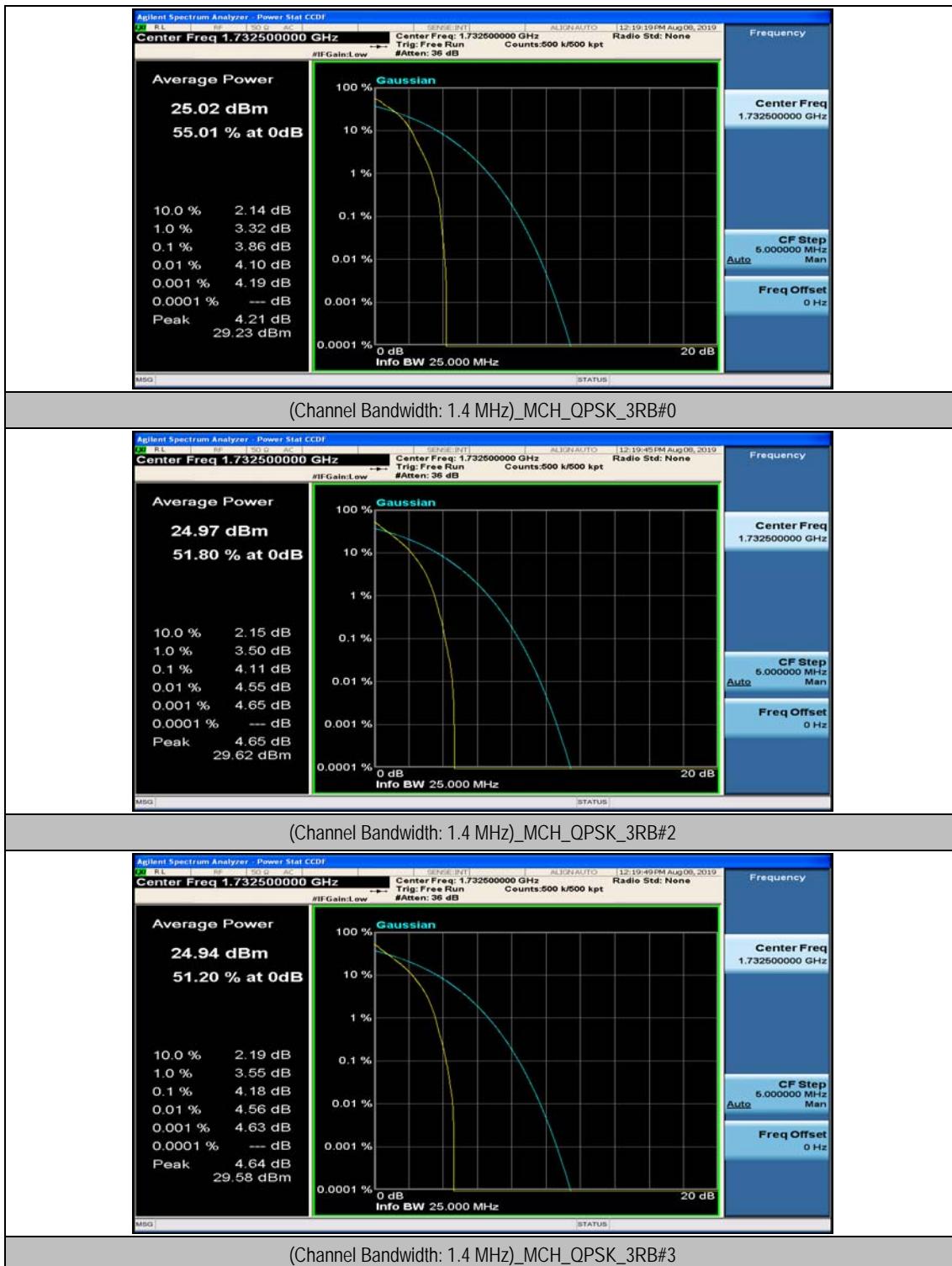
Test Graphs

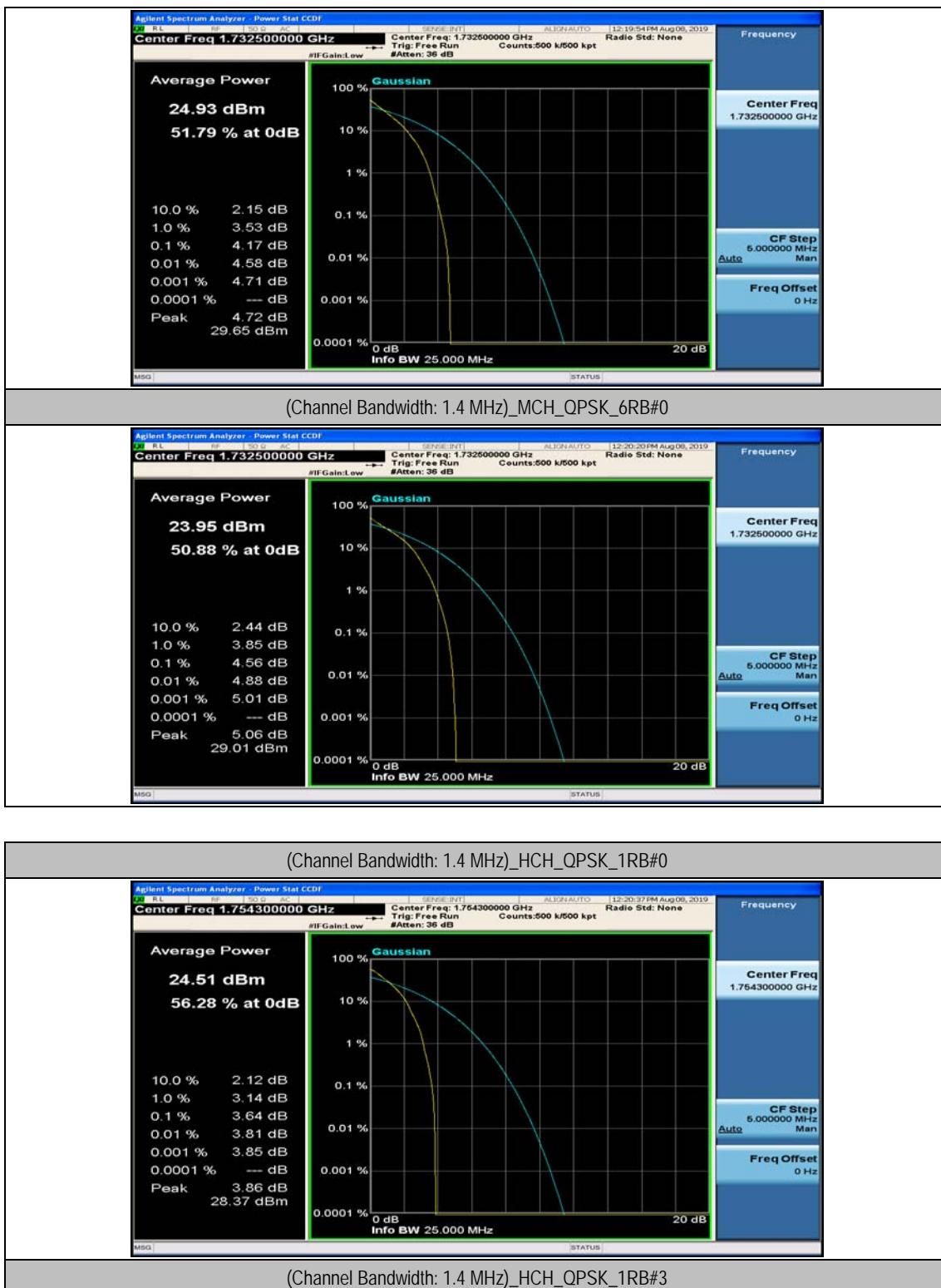
Channel Bandwidth: 1.4 MHz

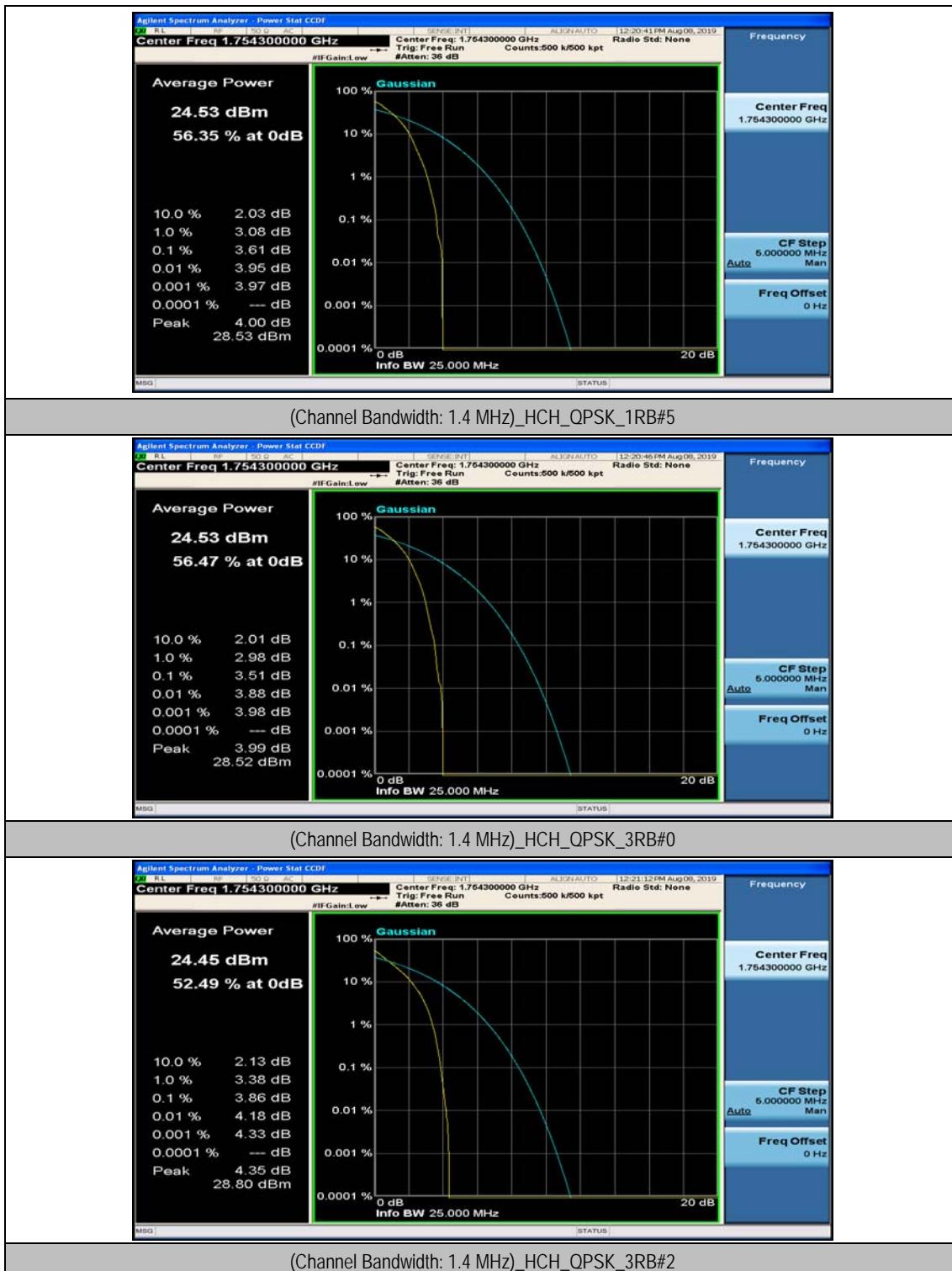


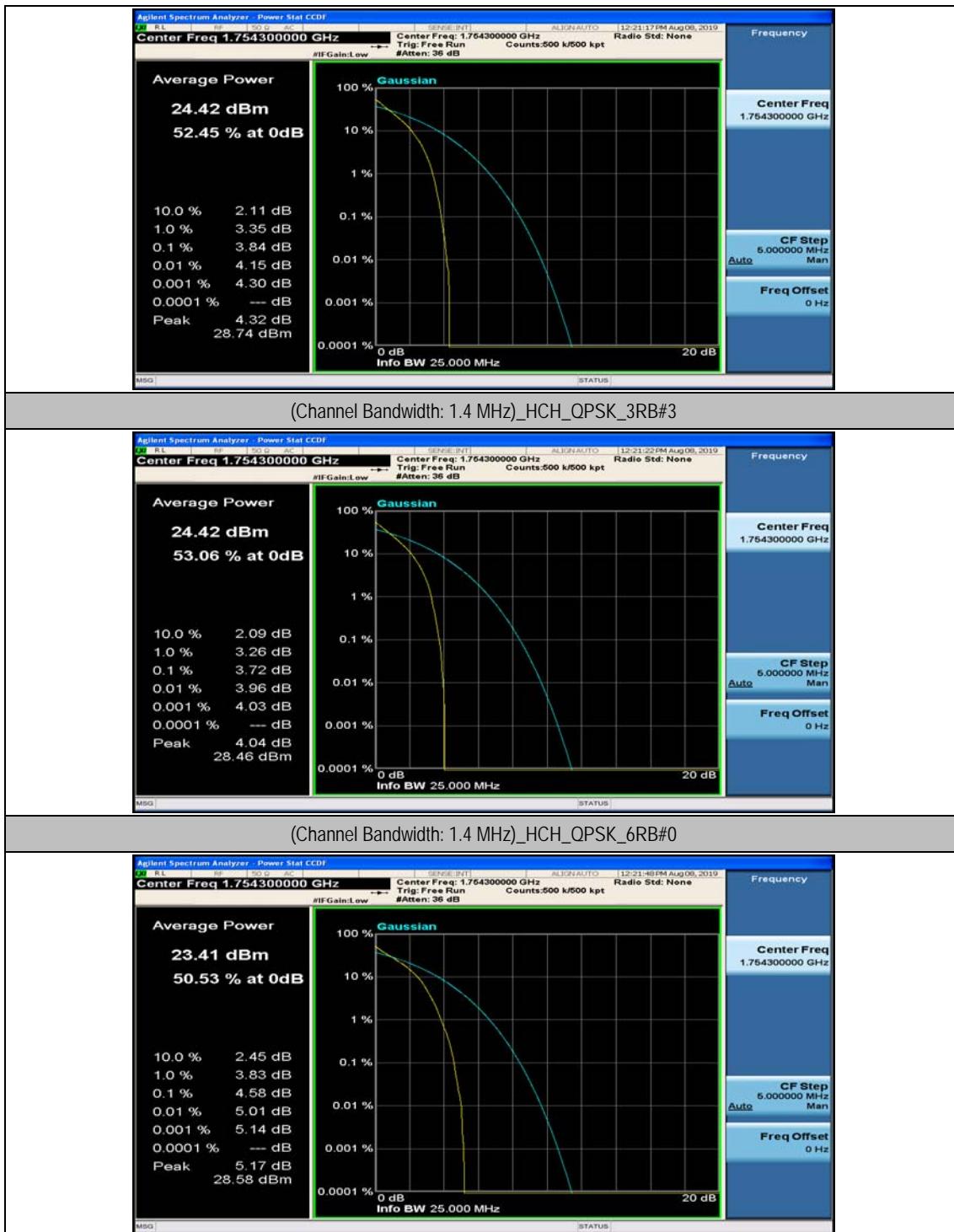


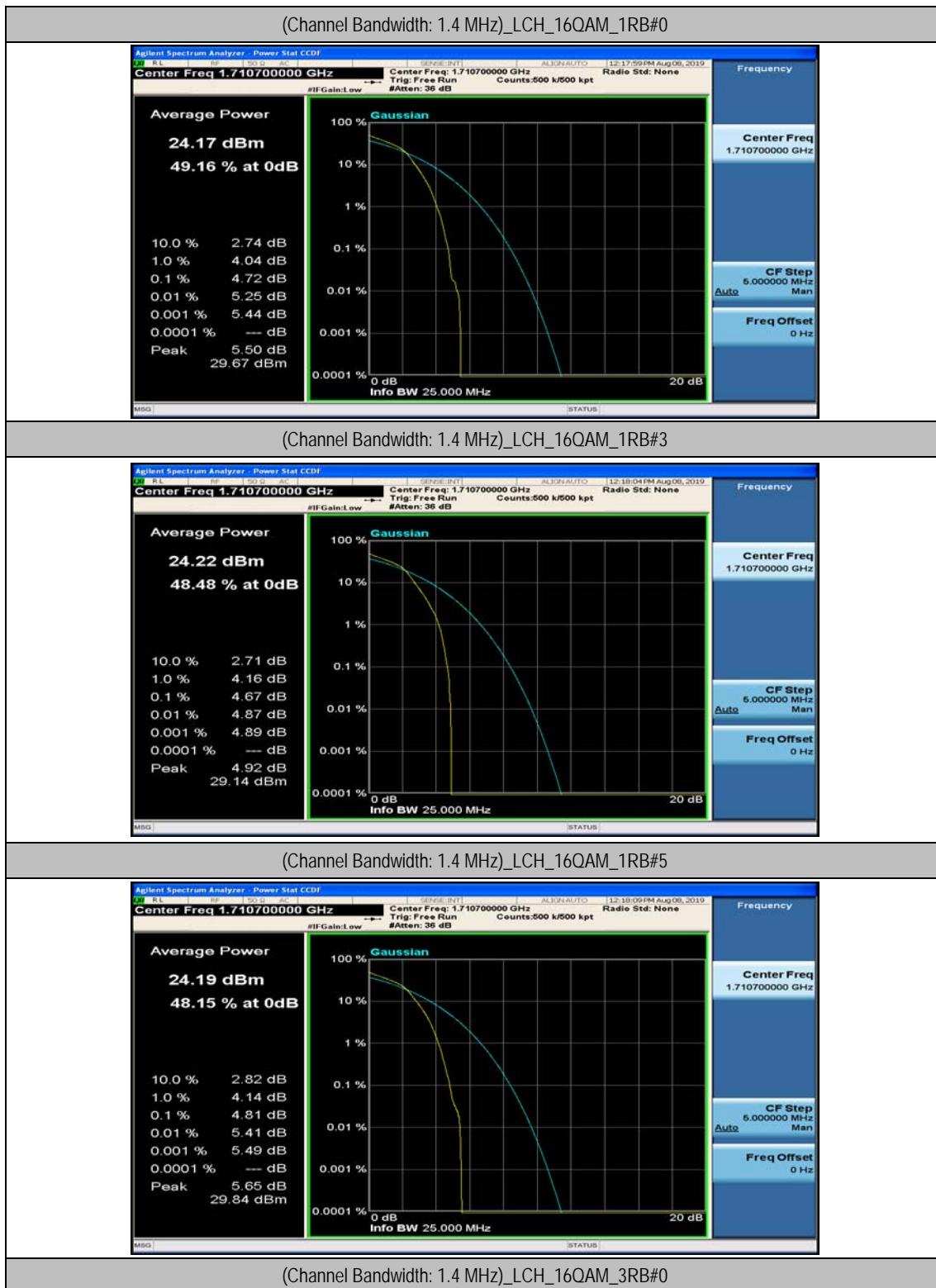


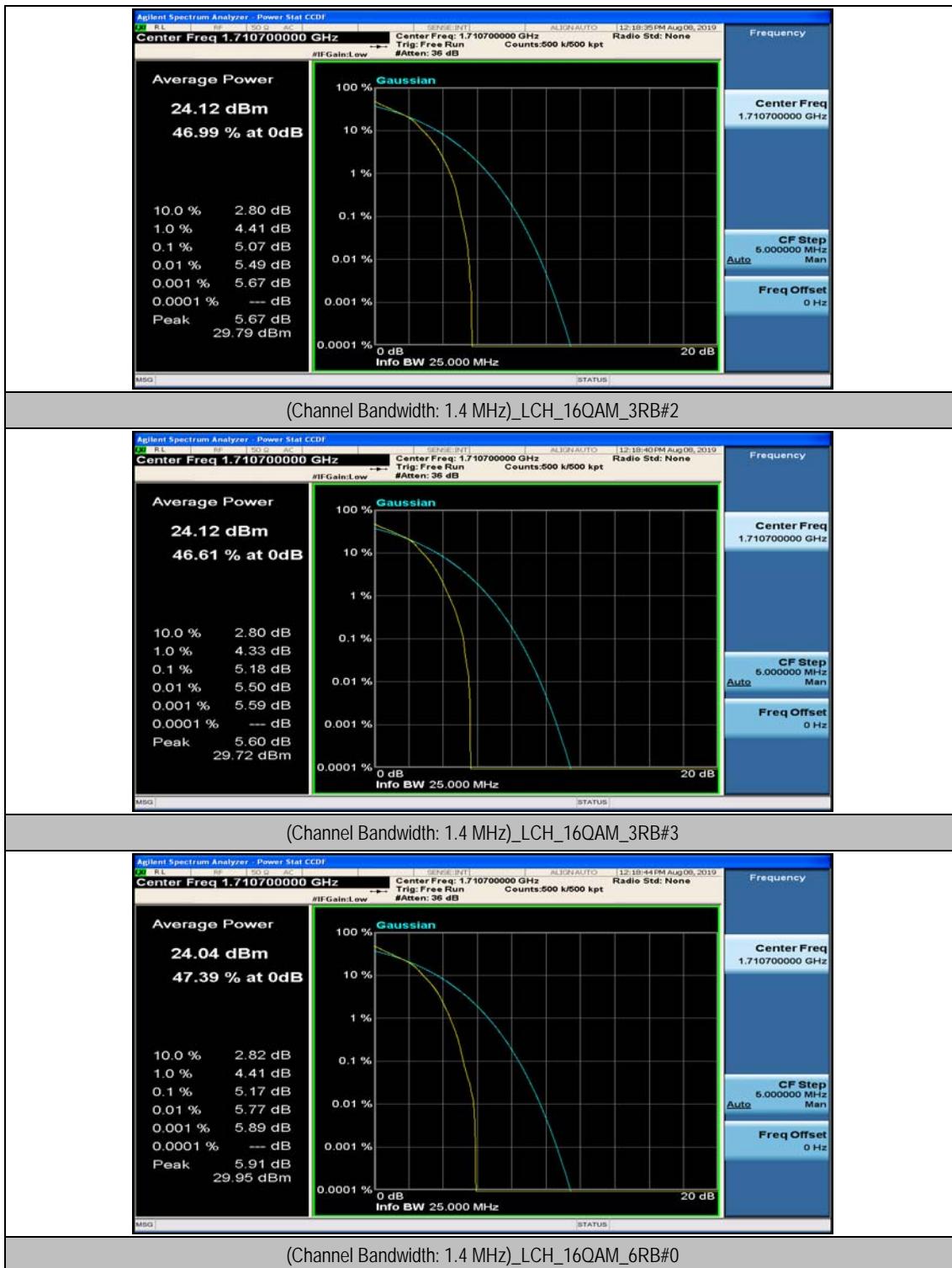


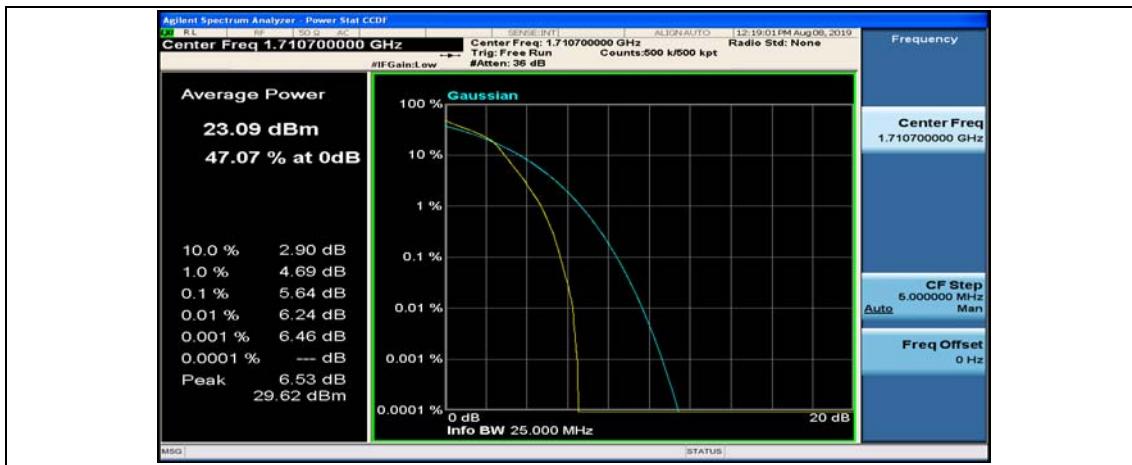


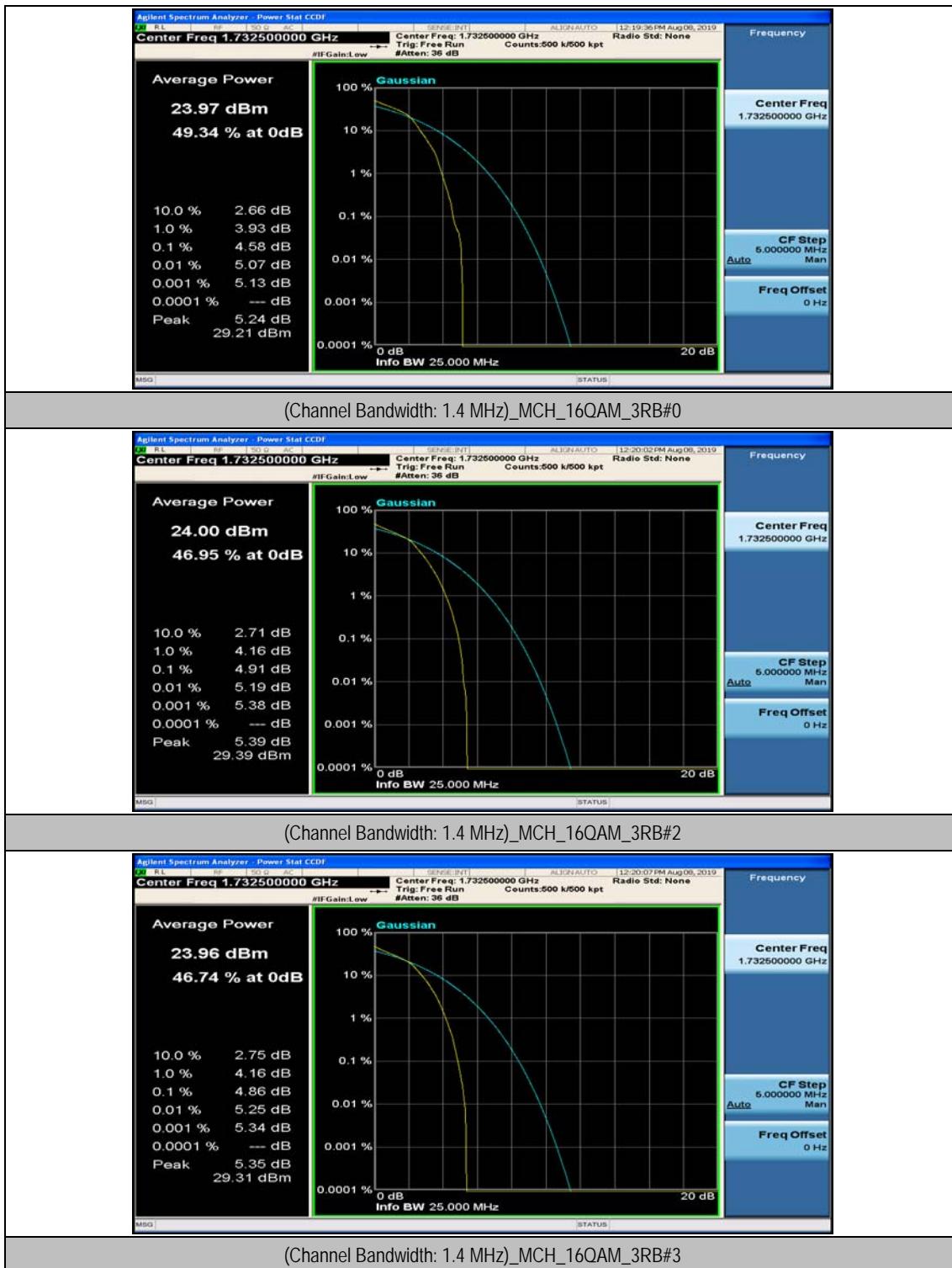


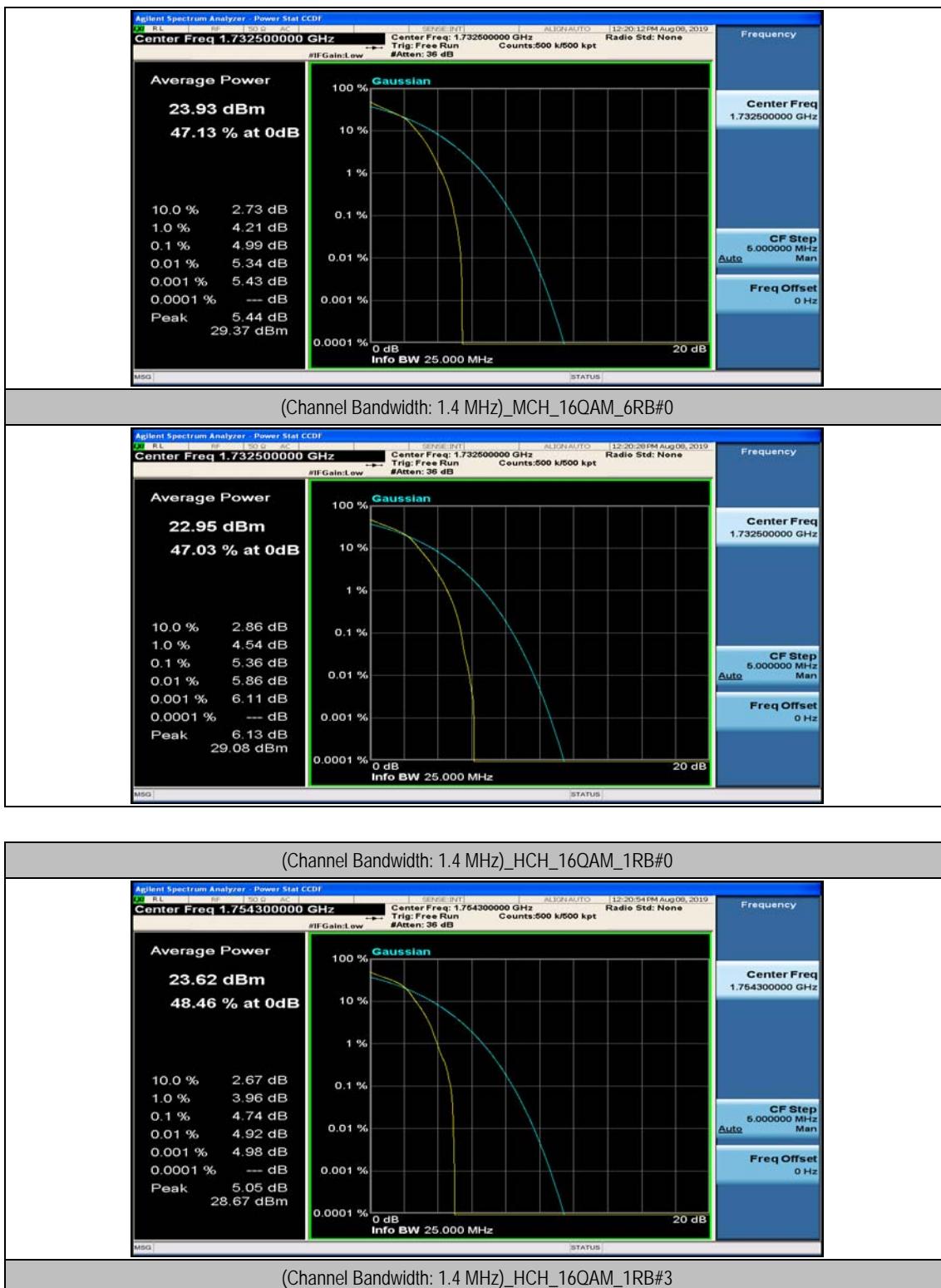


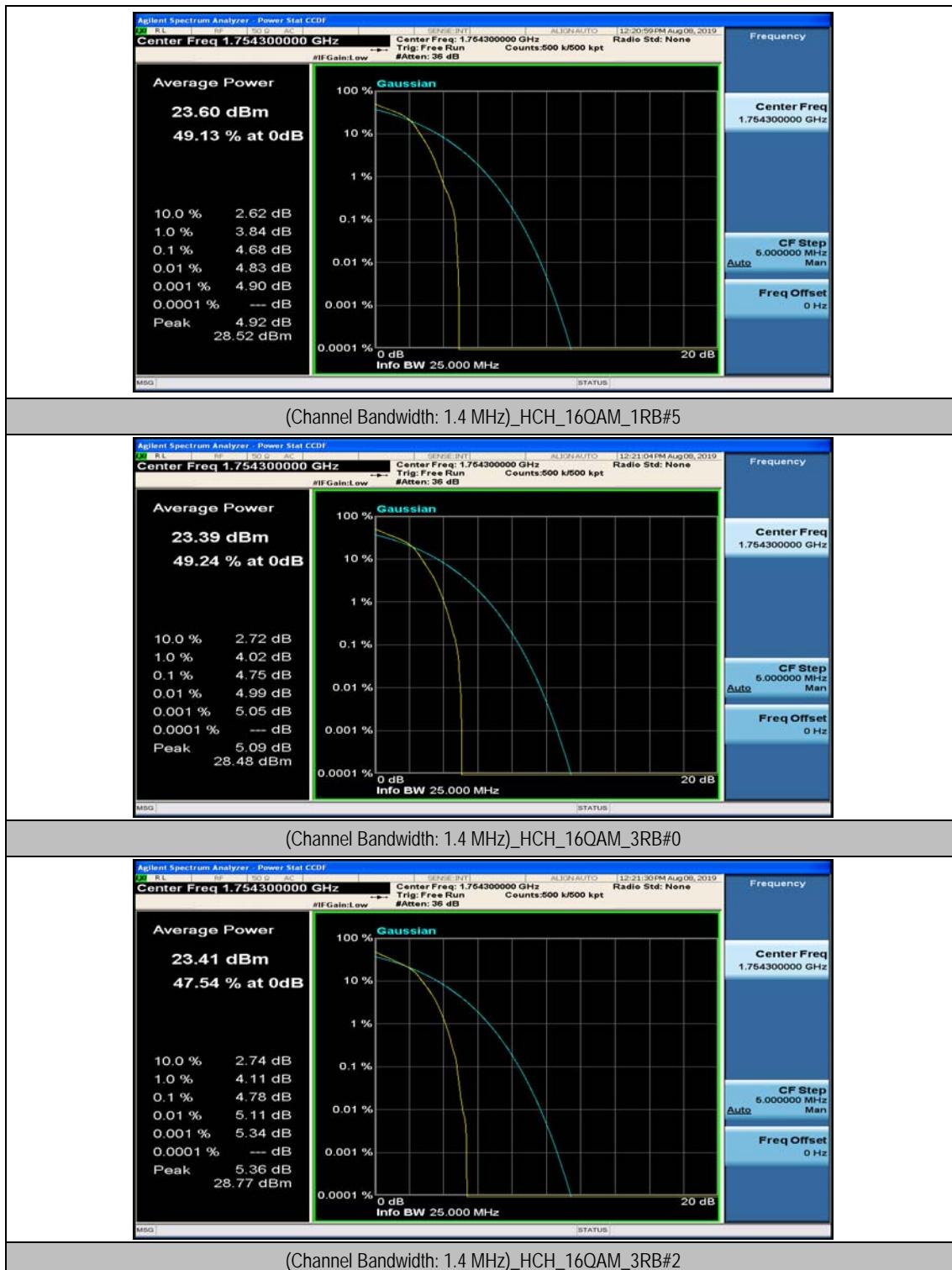


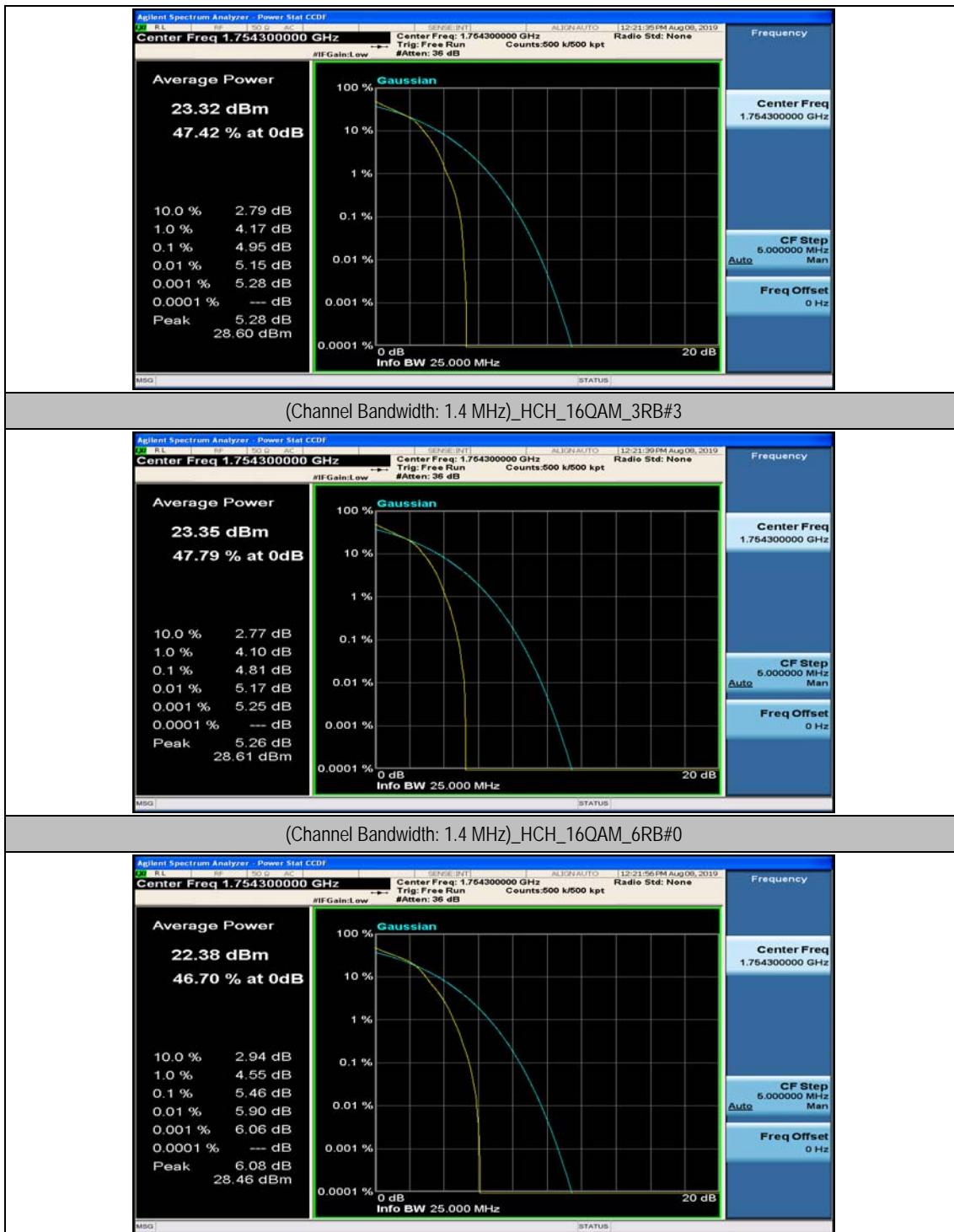




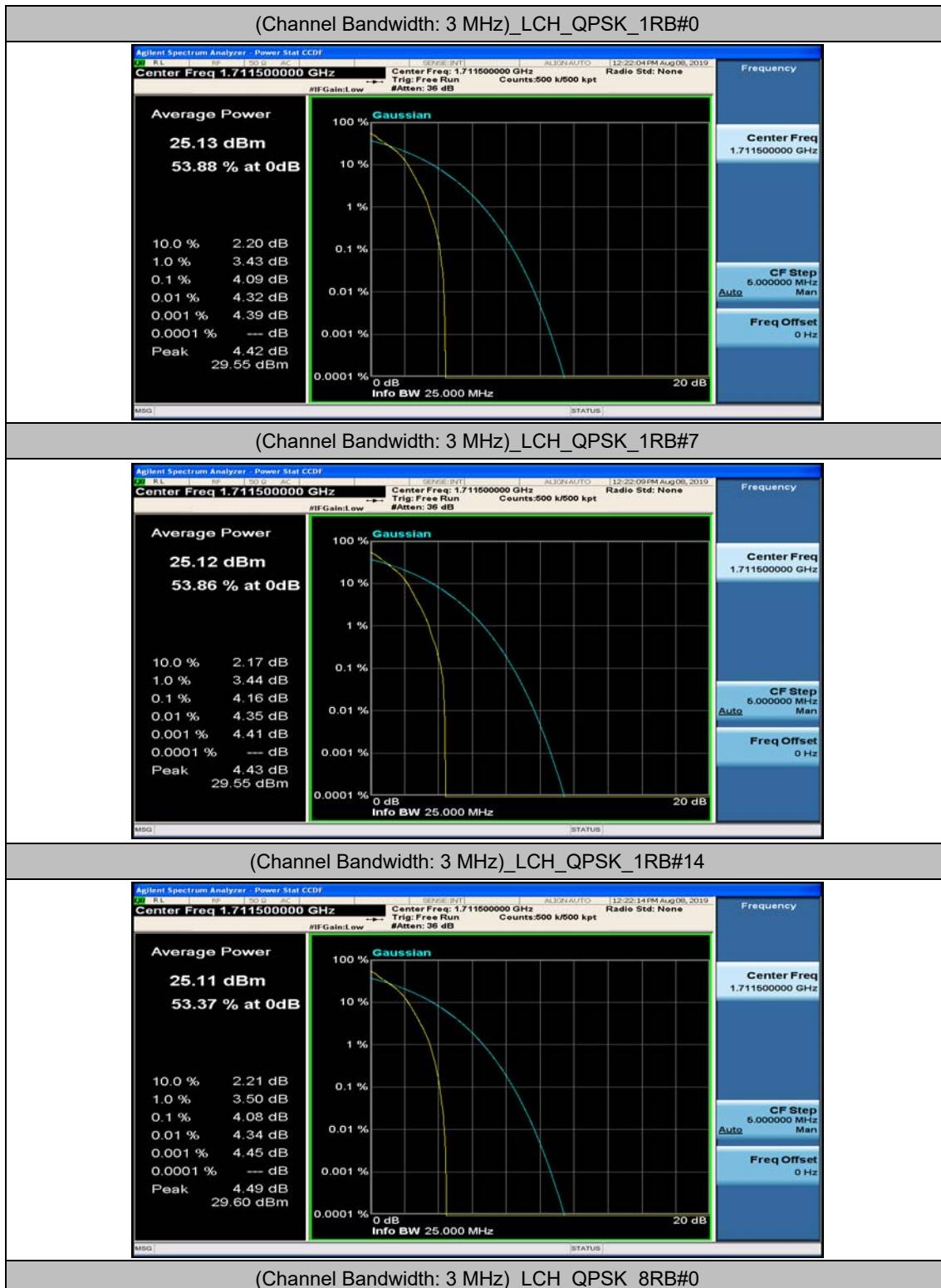


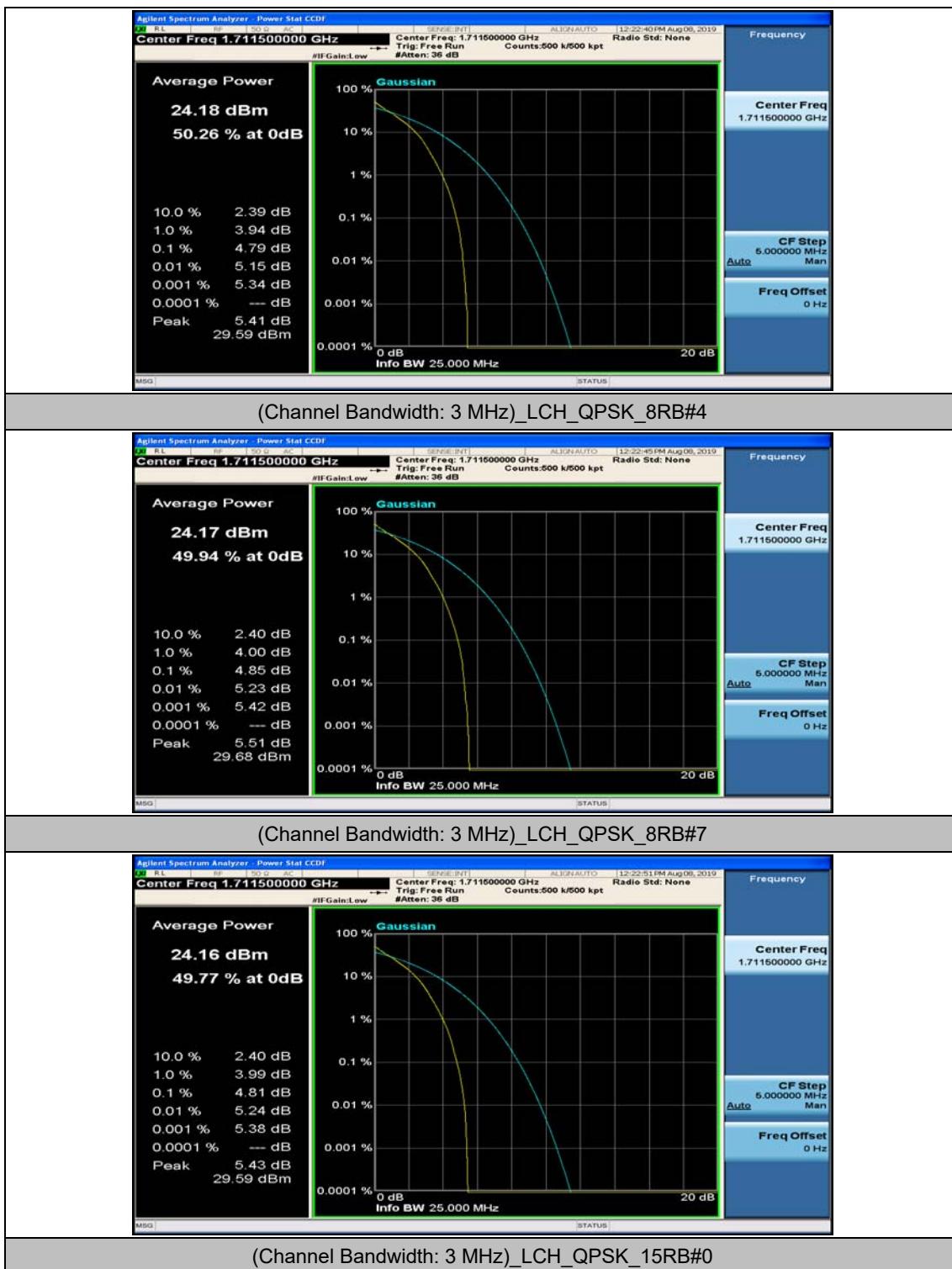


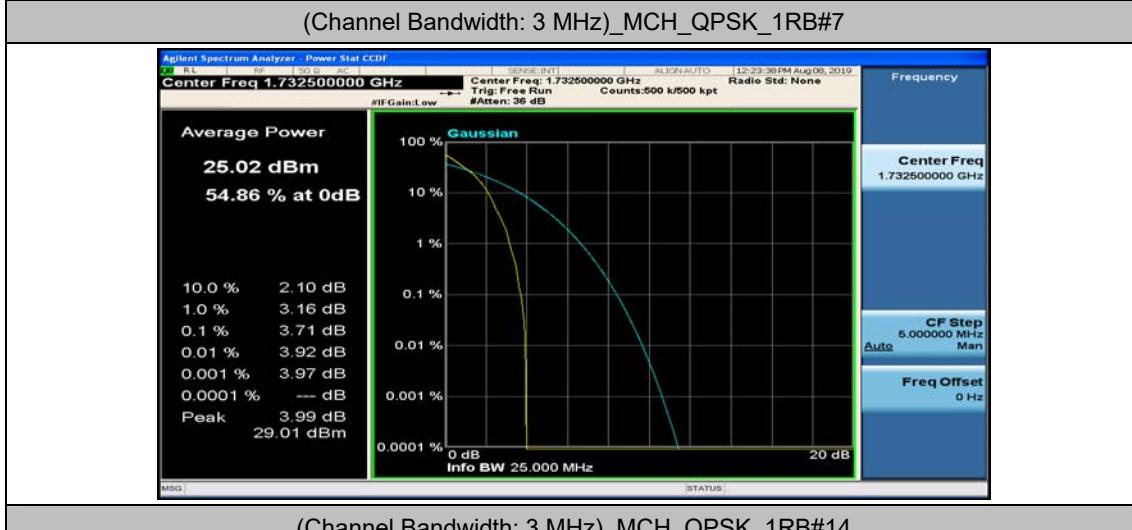
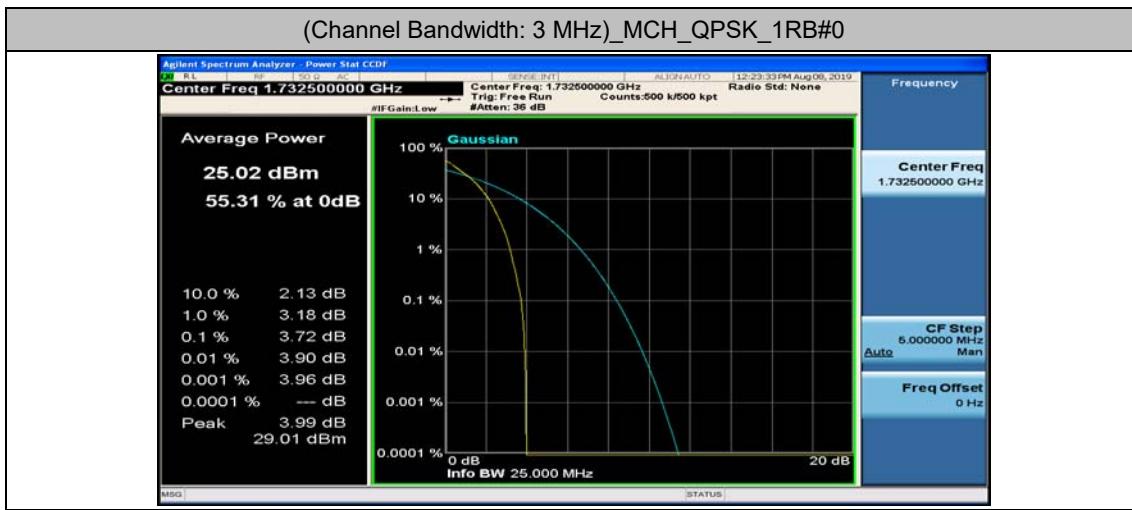
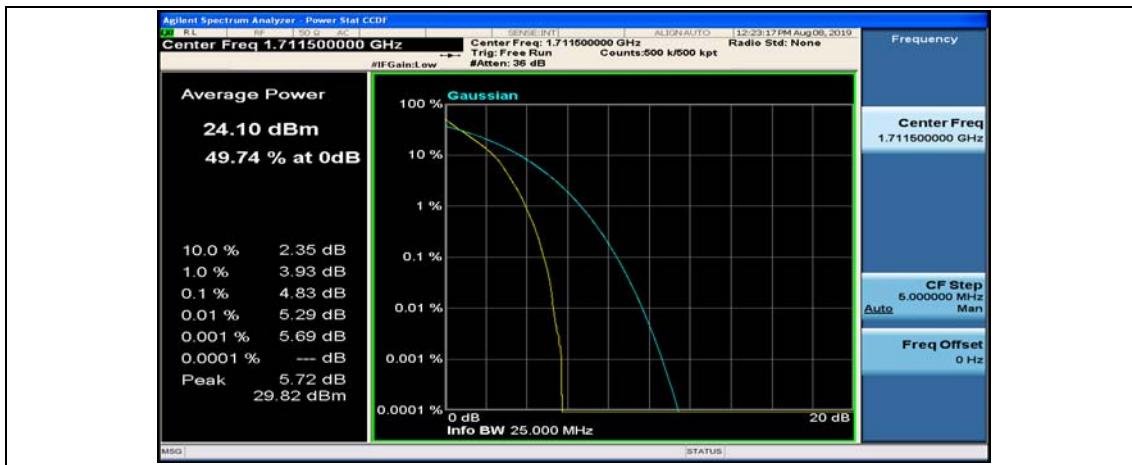




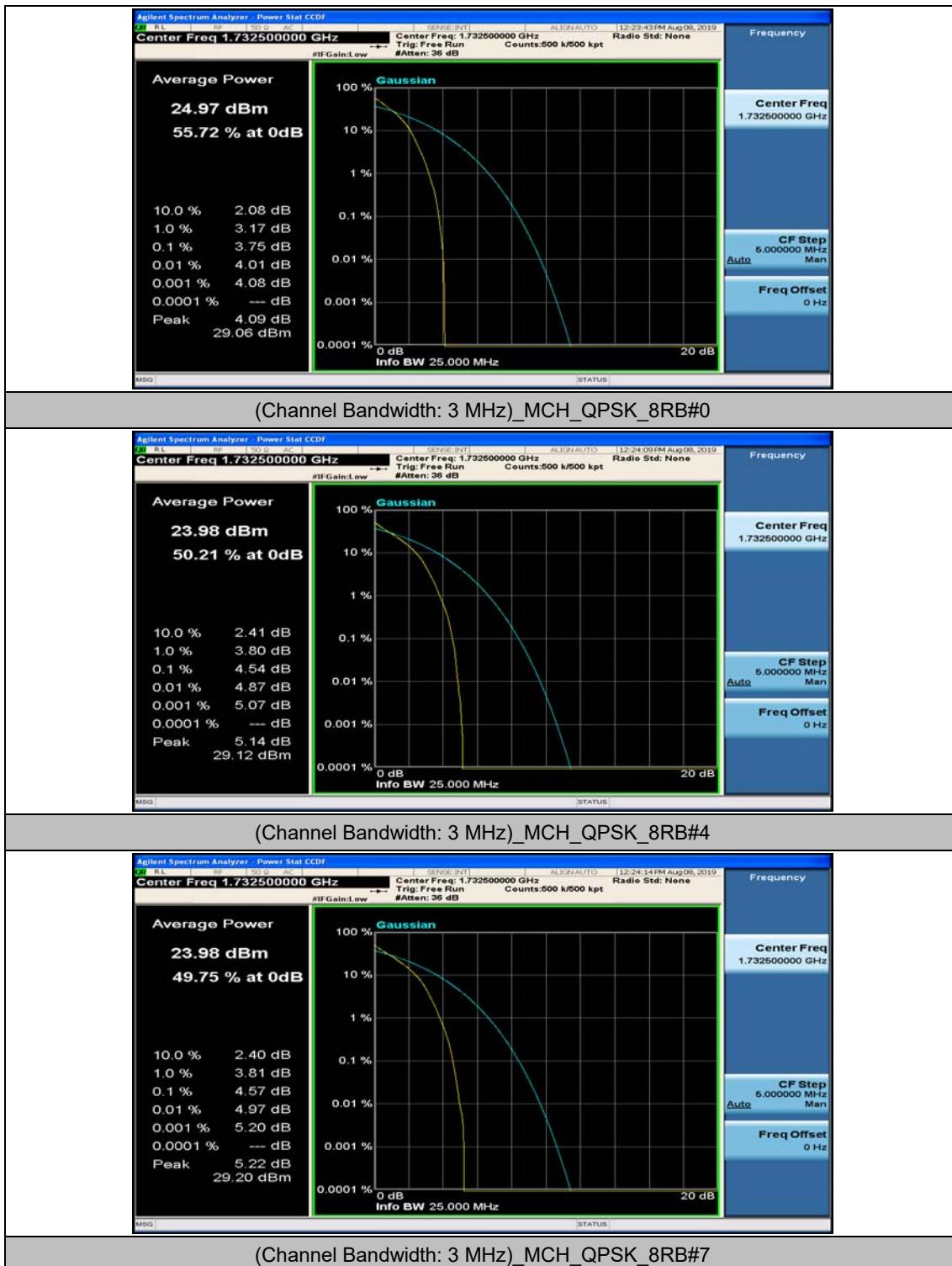
Channel Bandwidth: 3 MHz

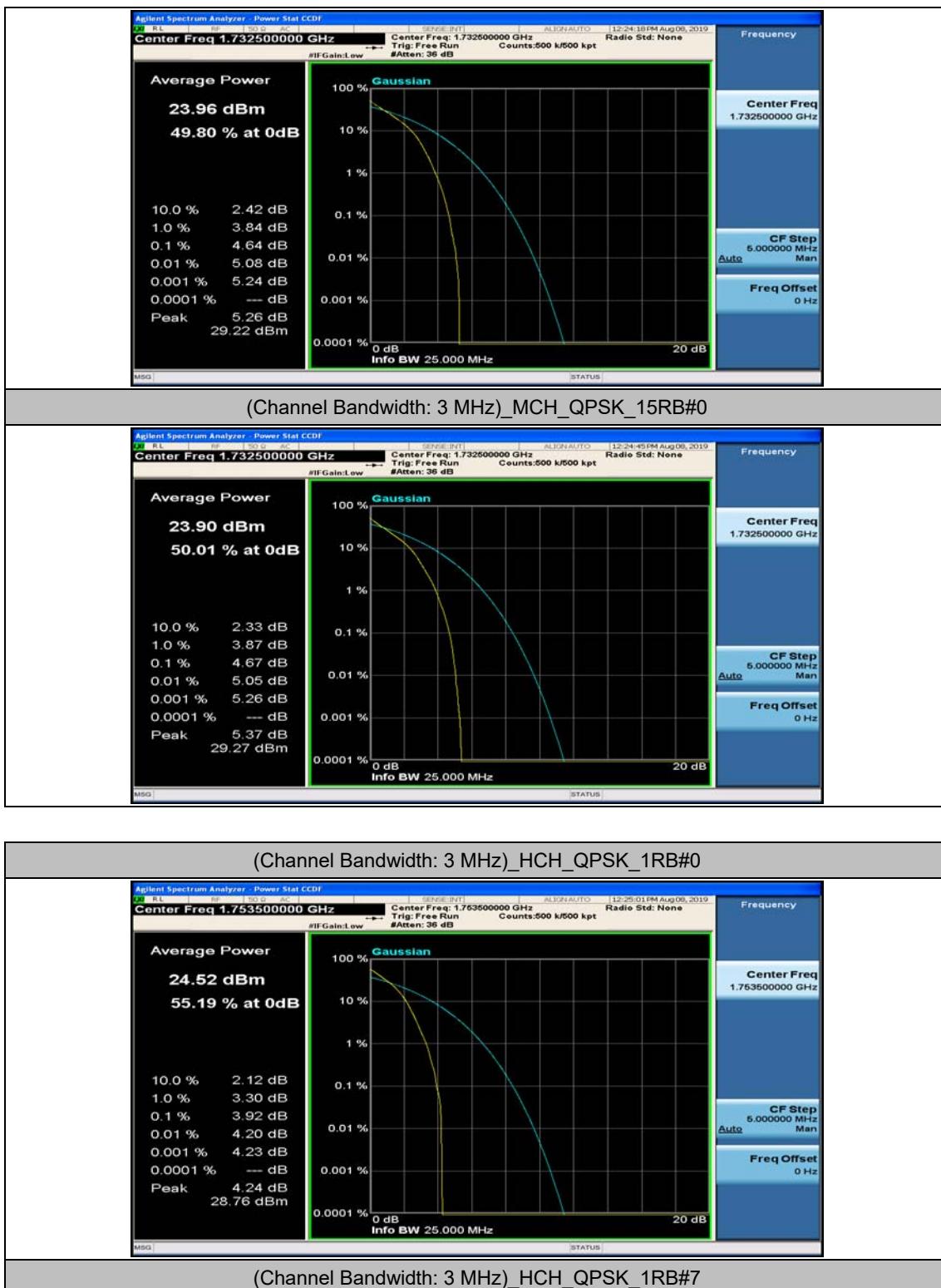


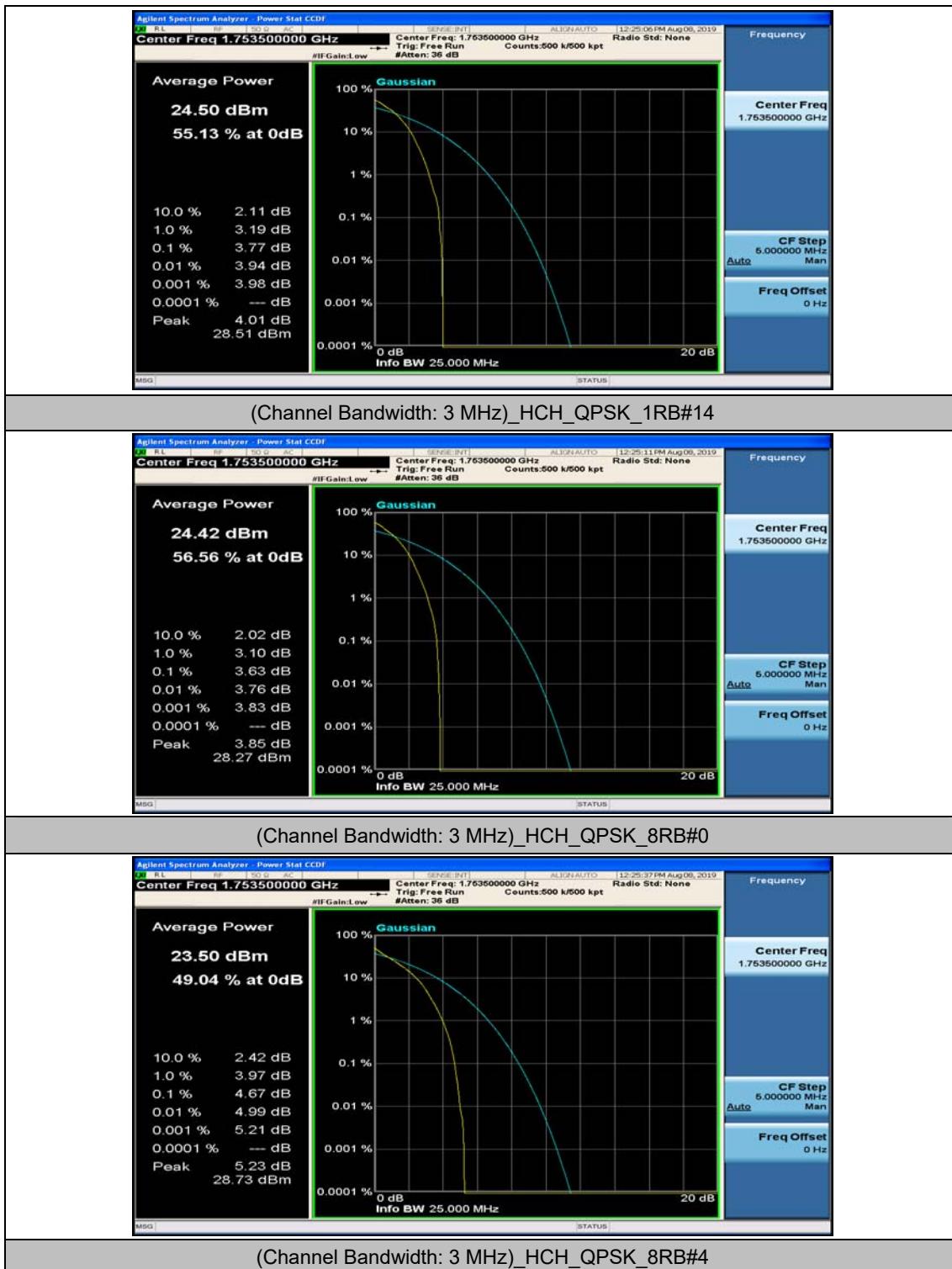


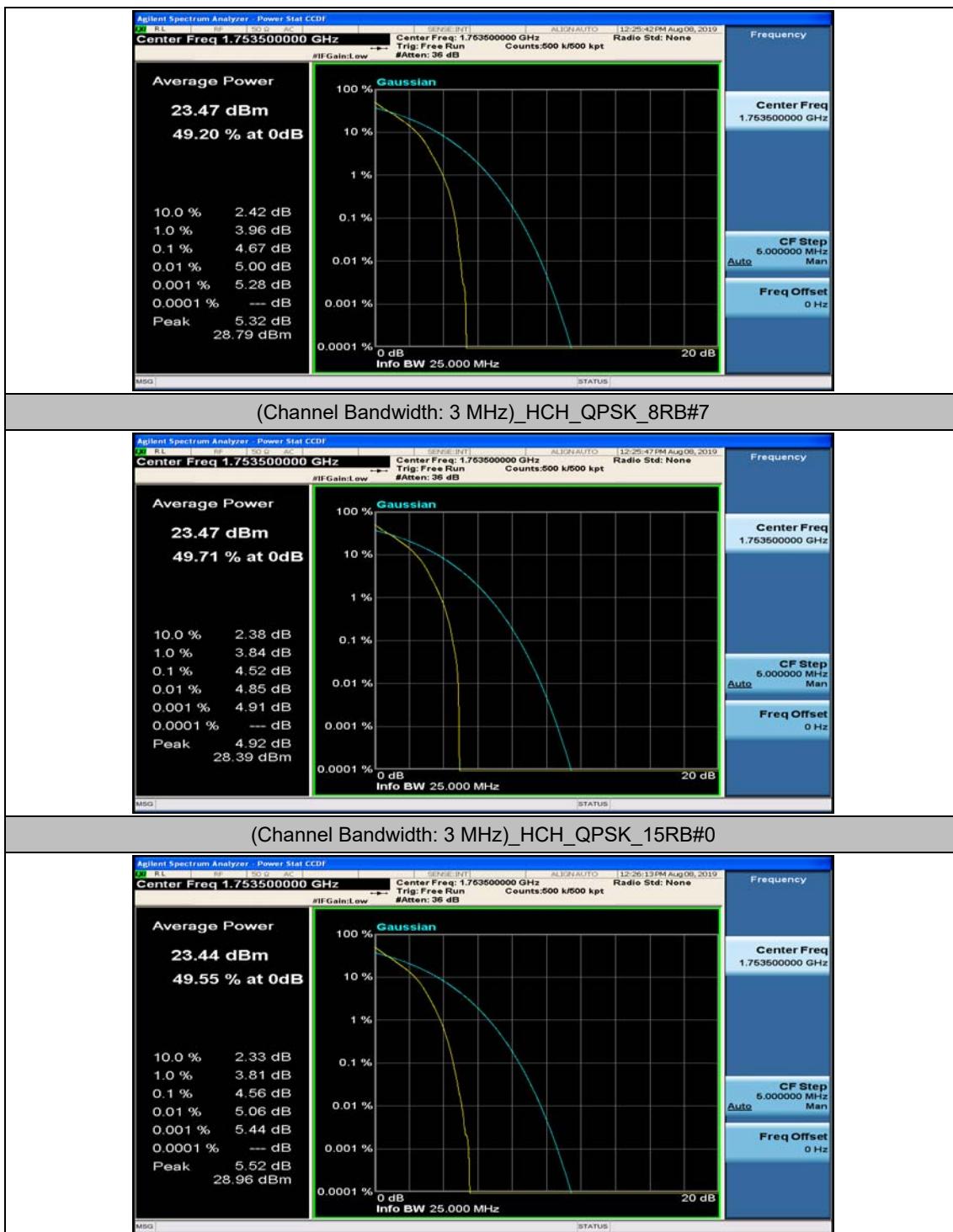


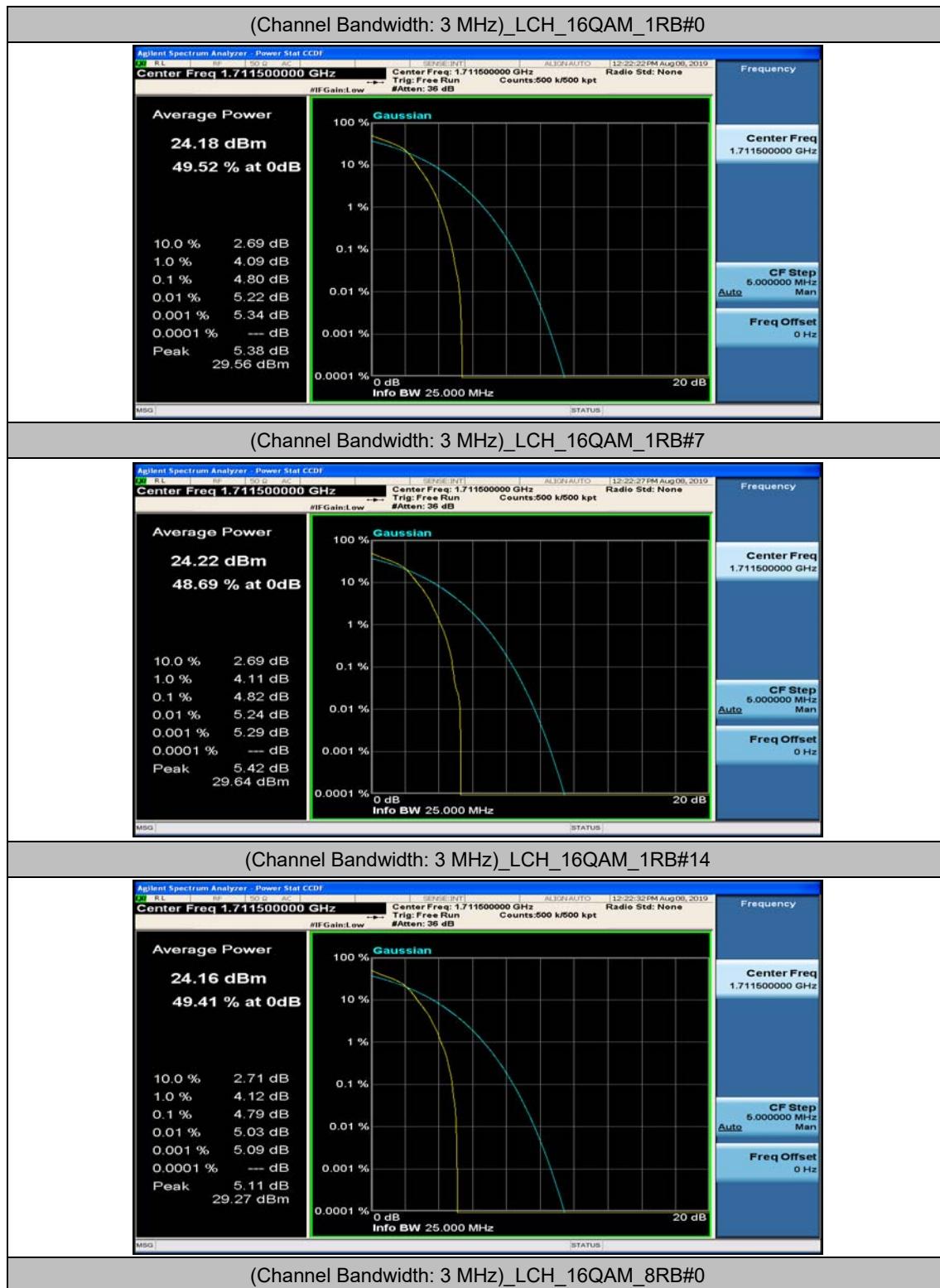
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

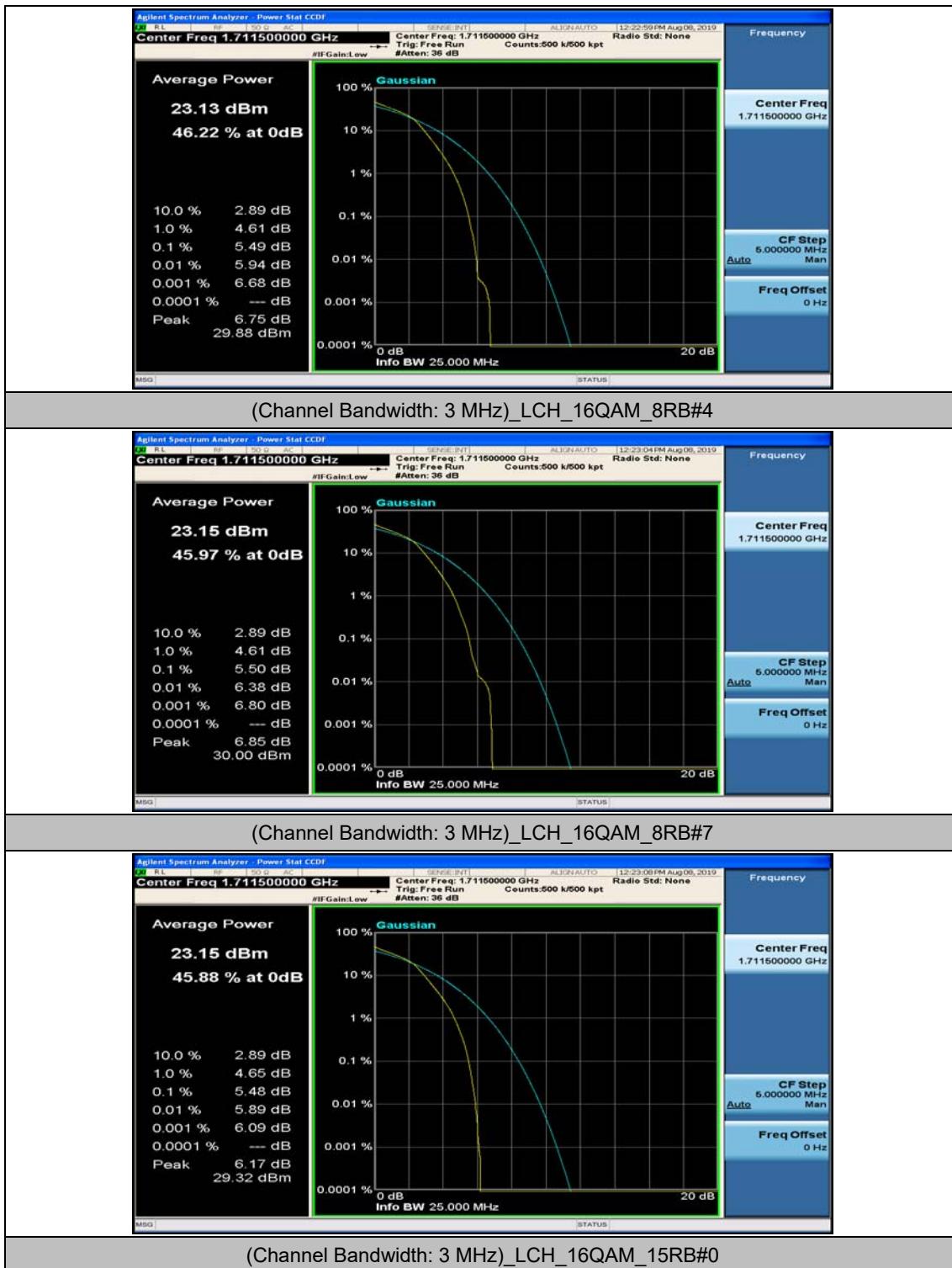


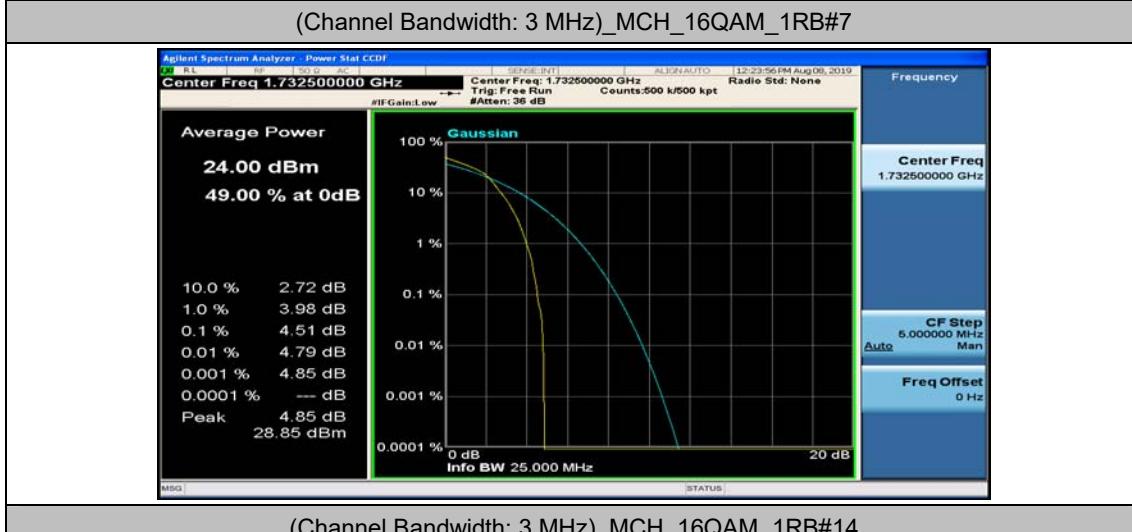
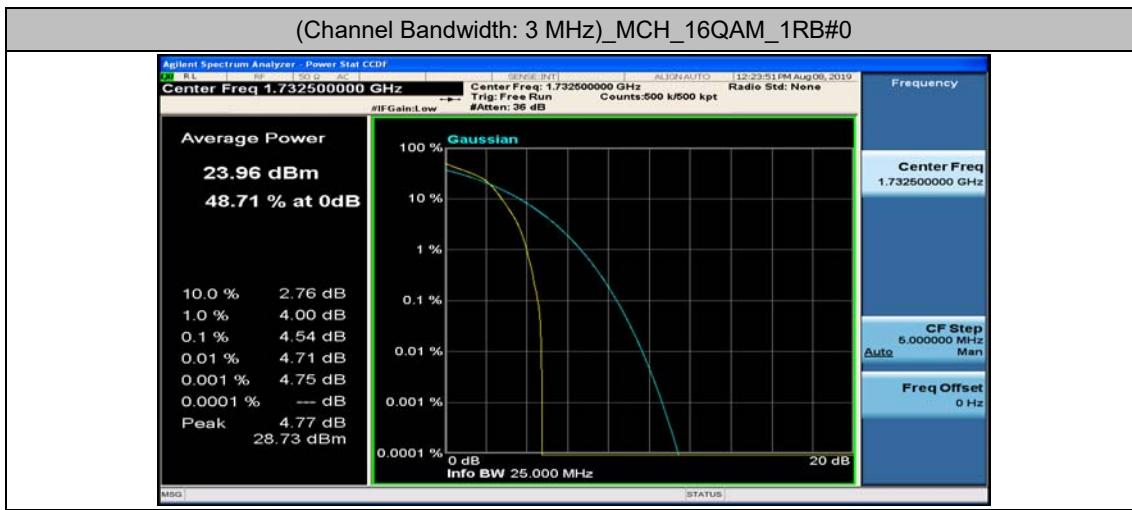
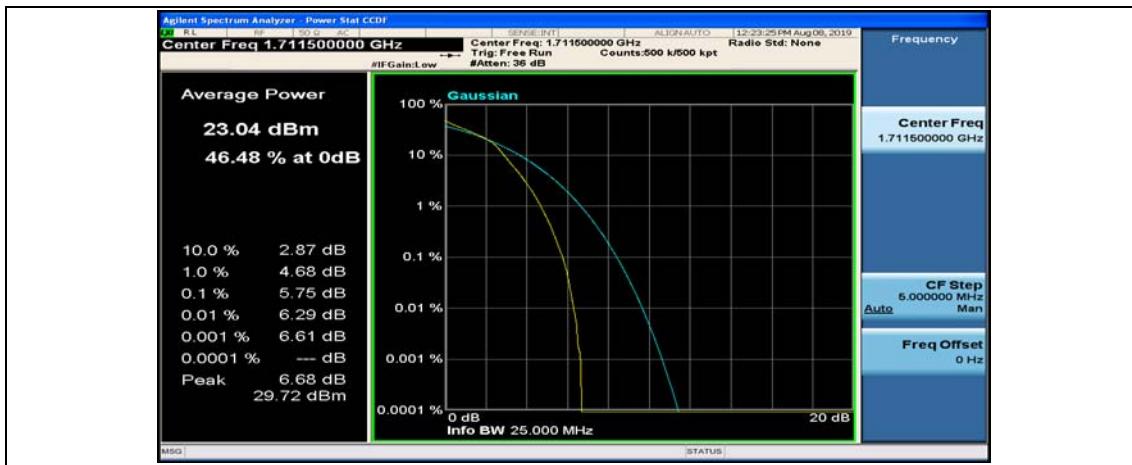




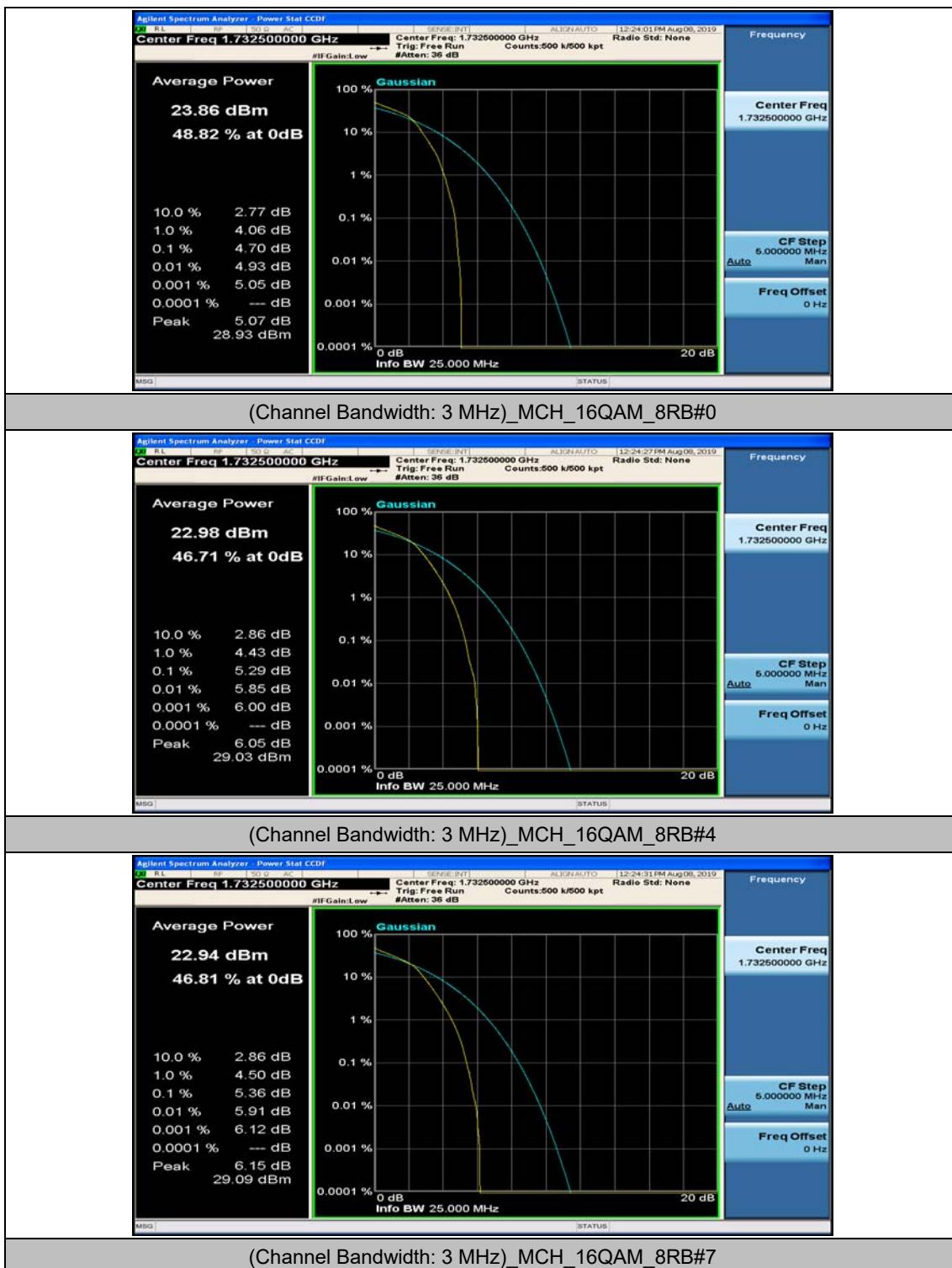


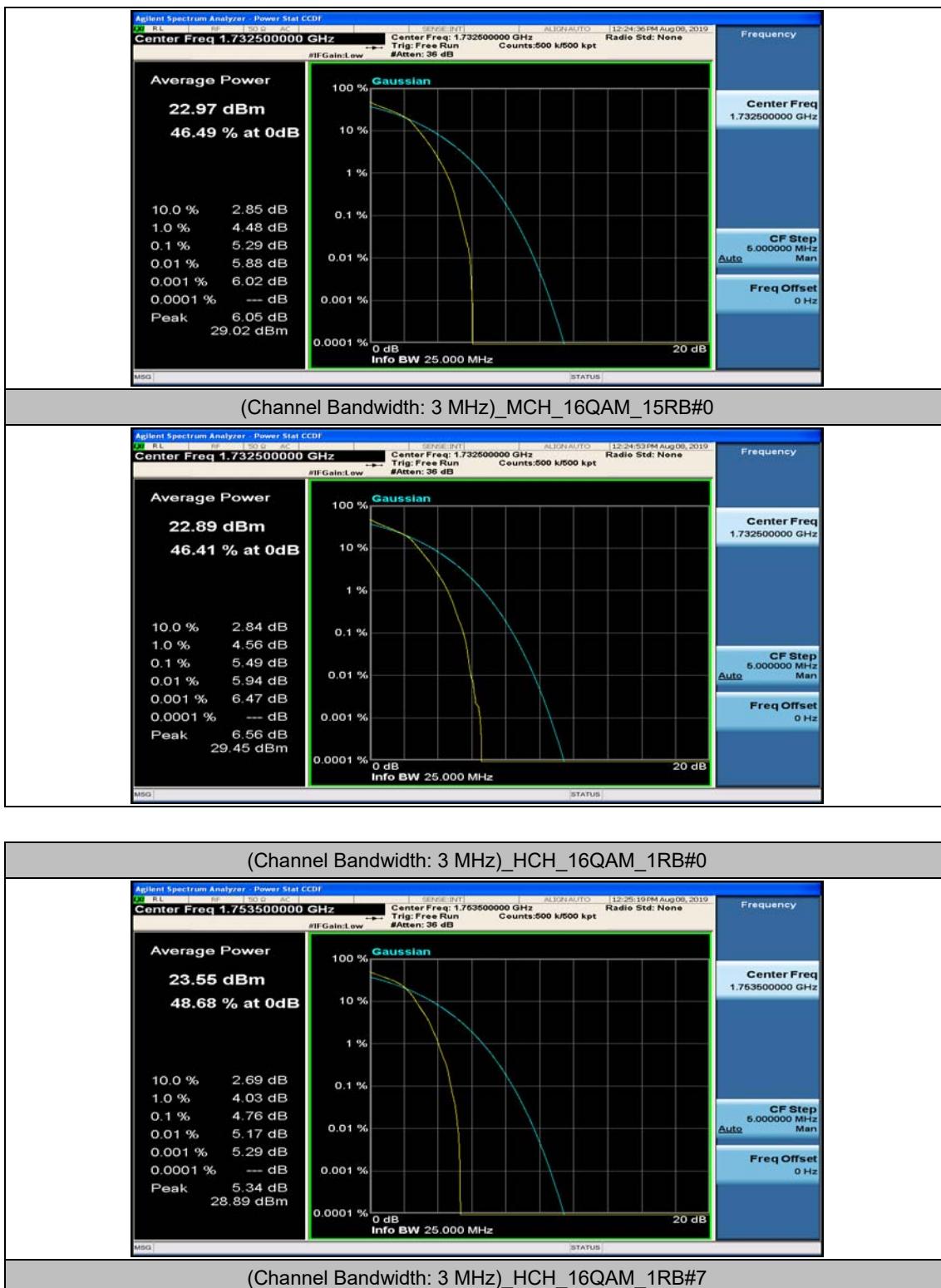


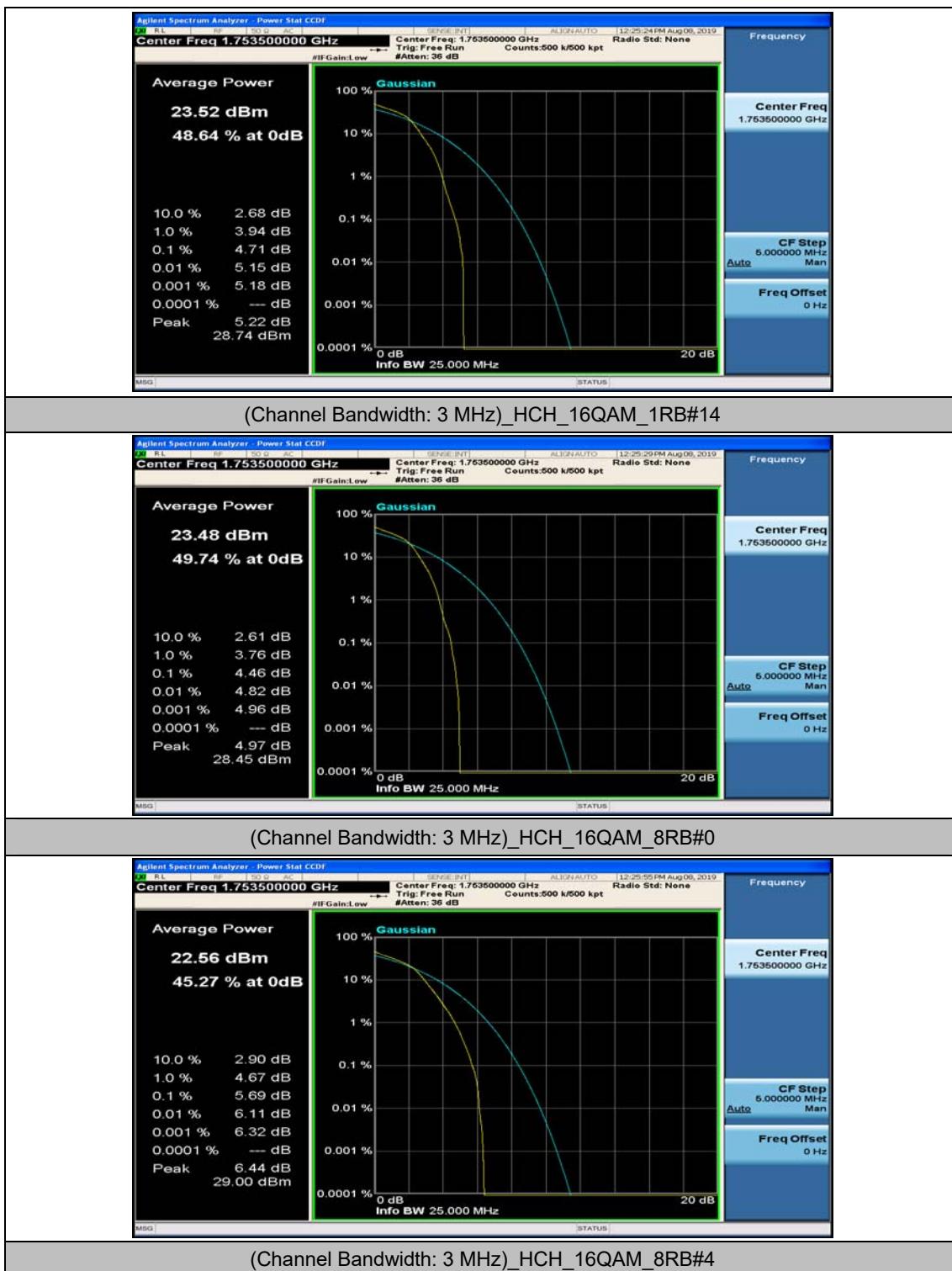


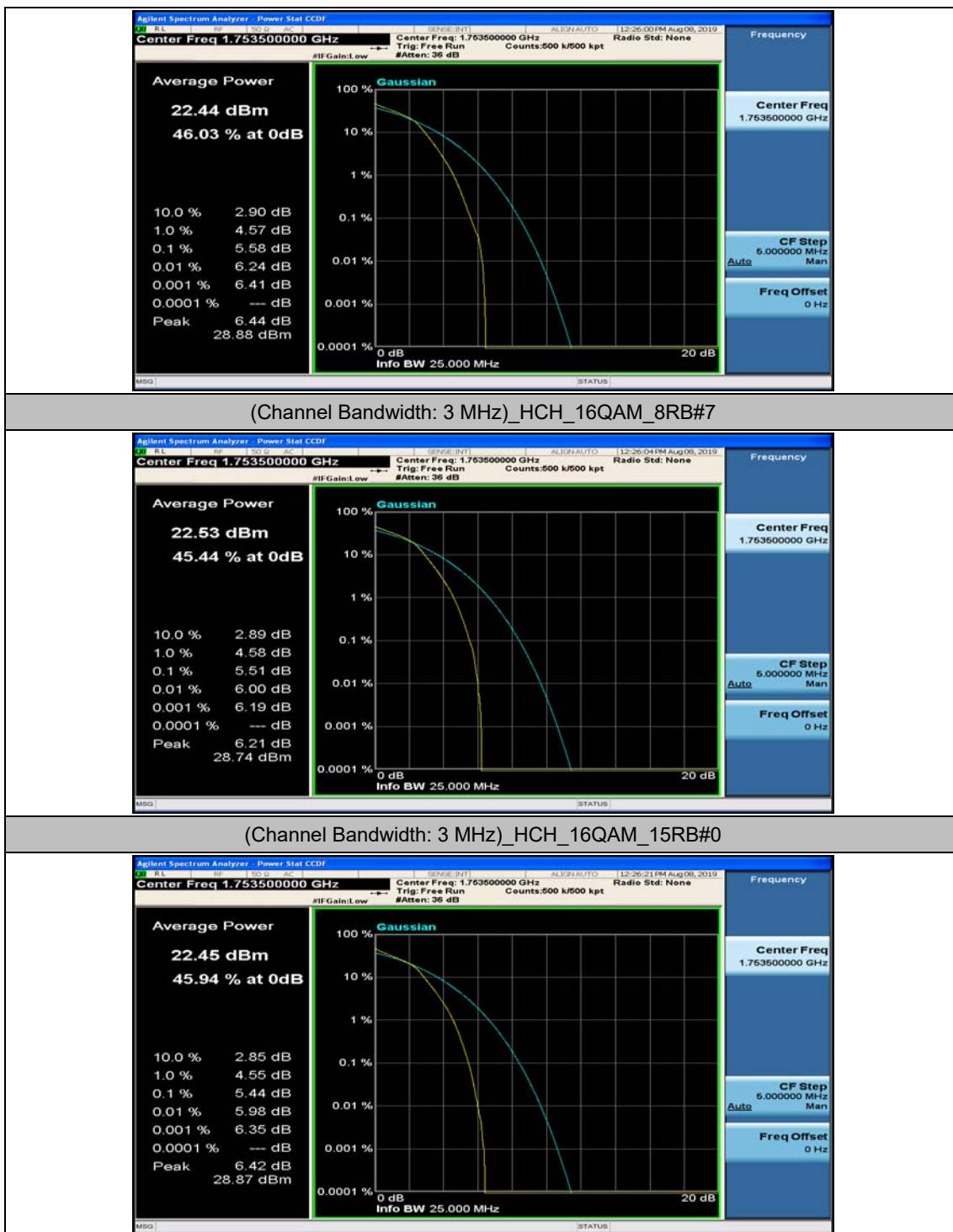


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

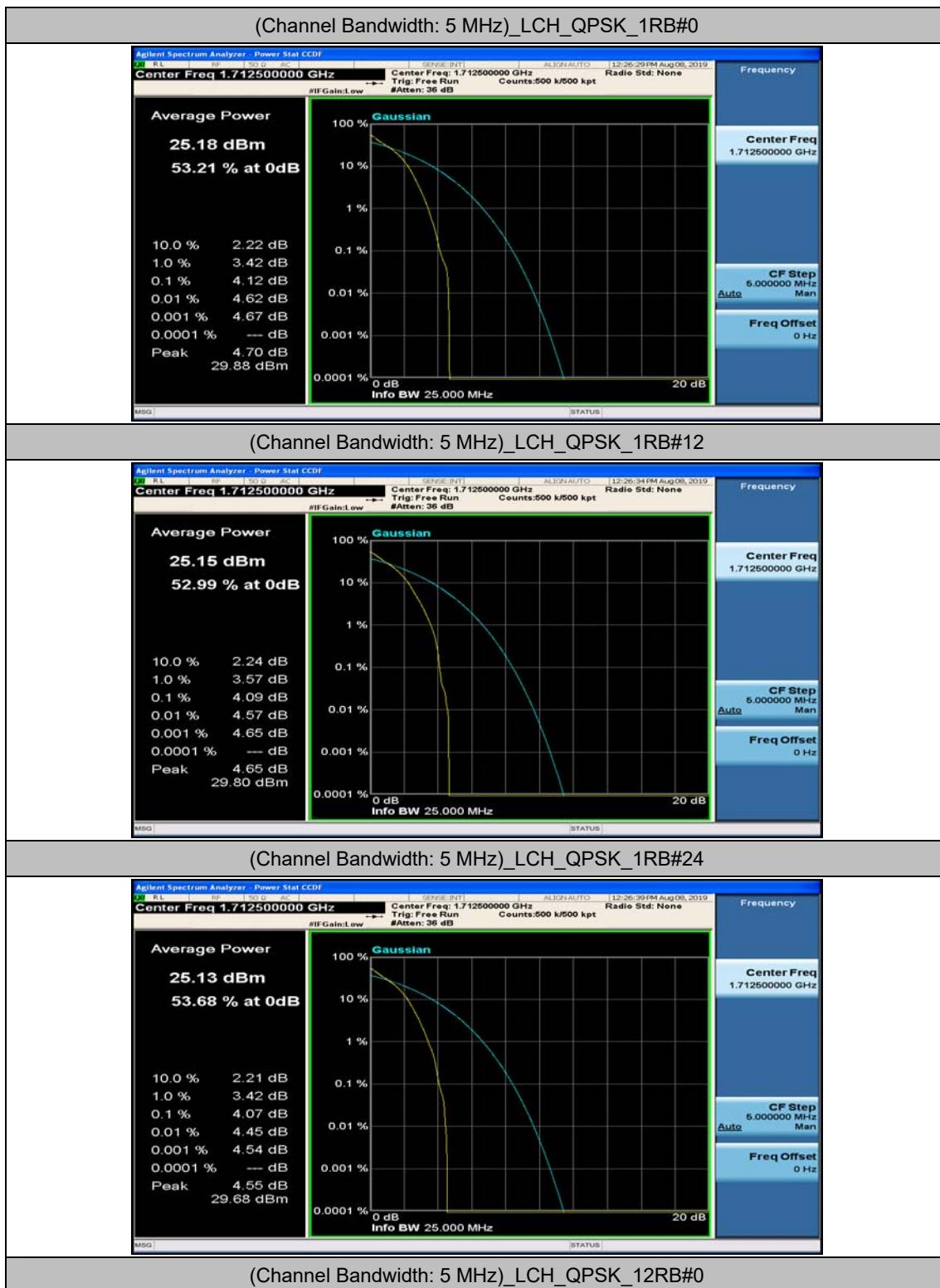


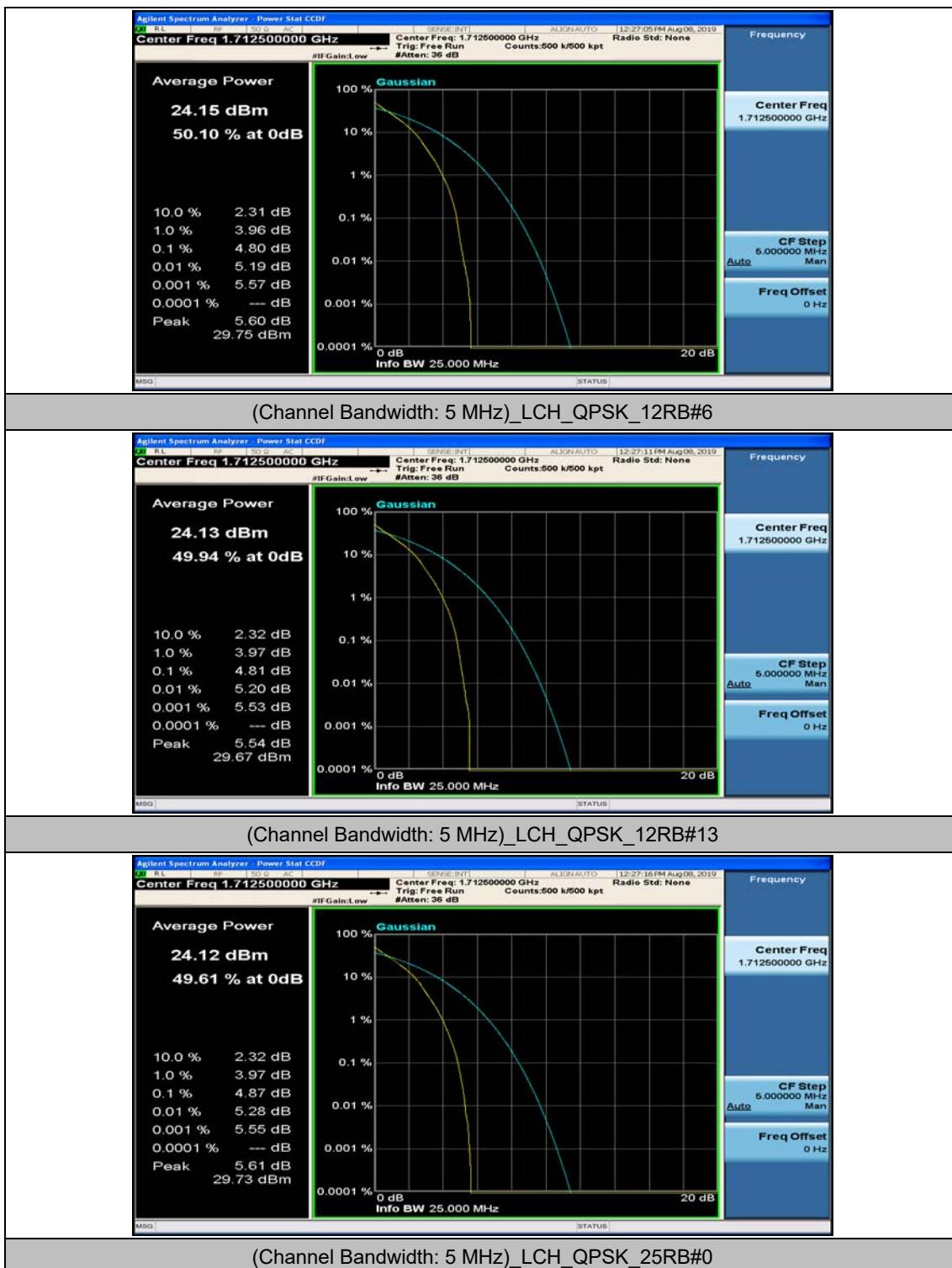


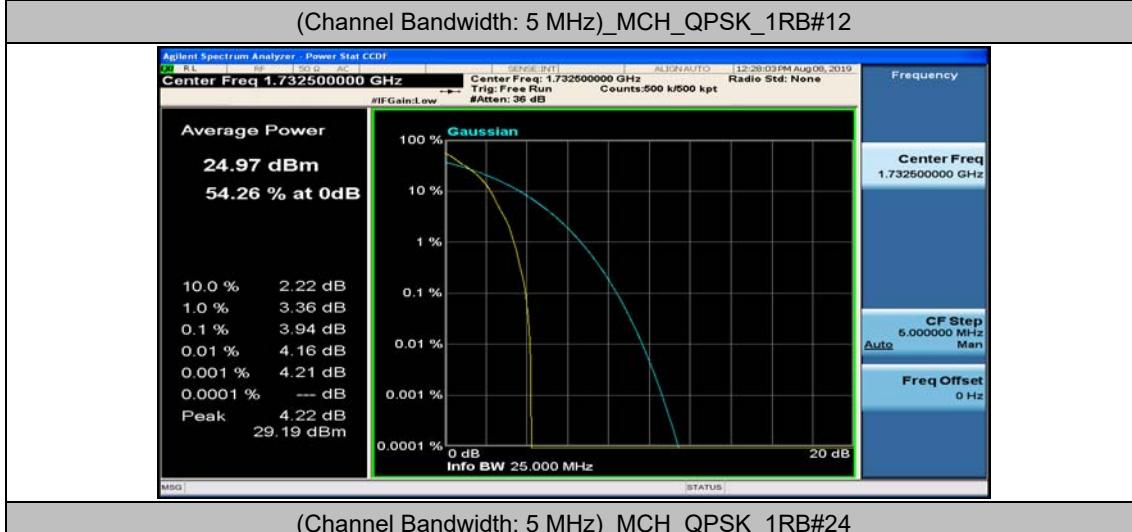
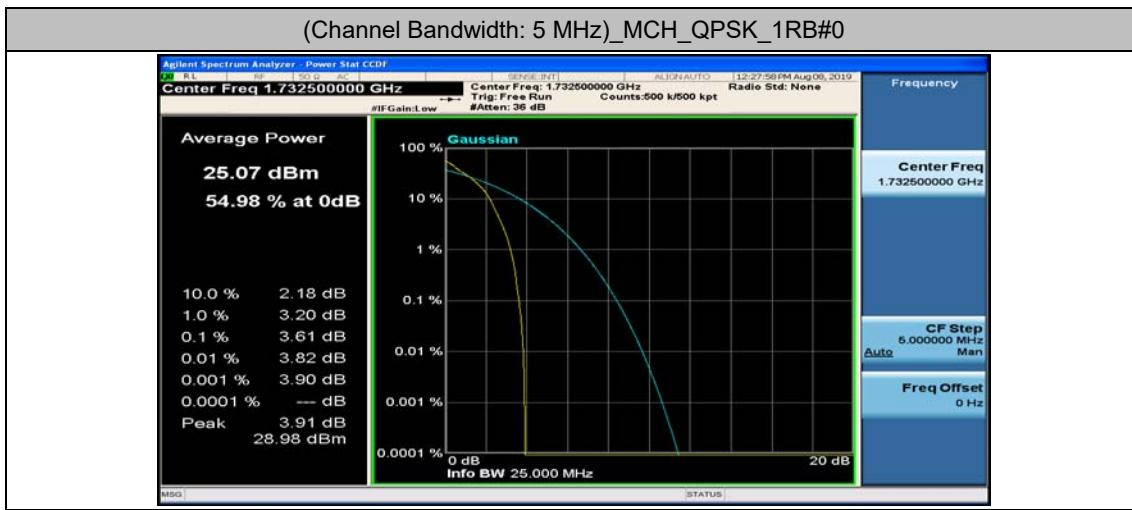
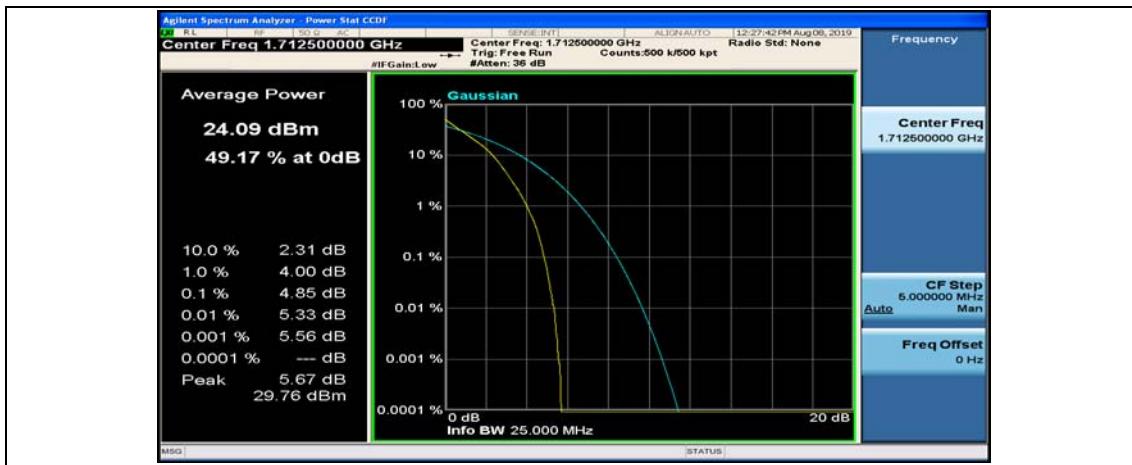




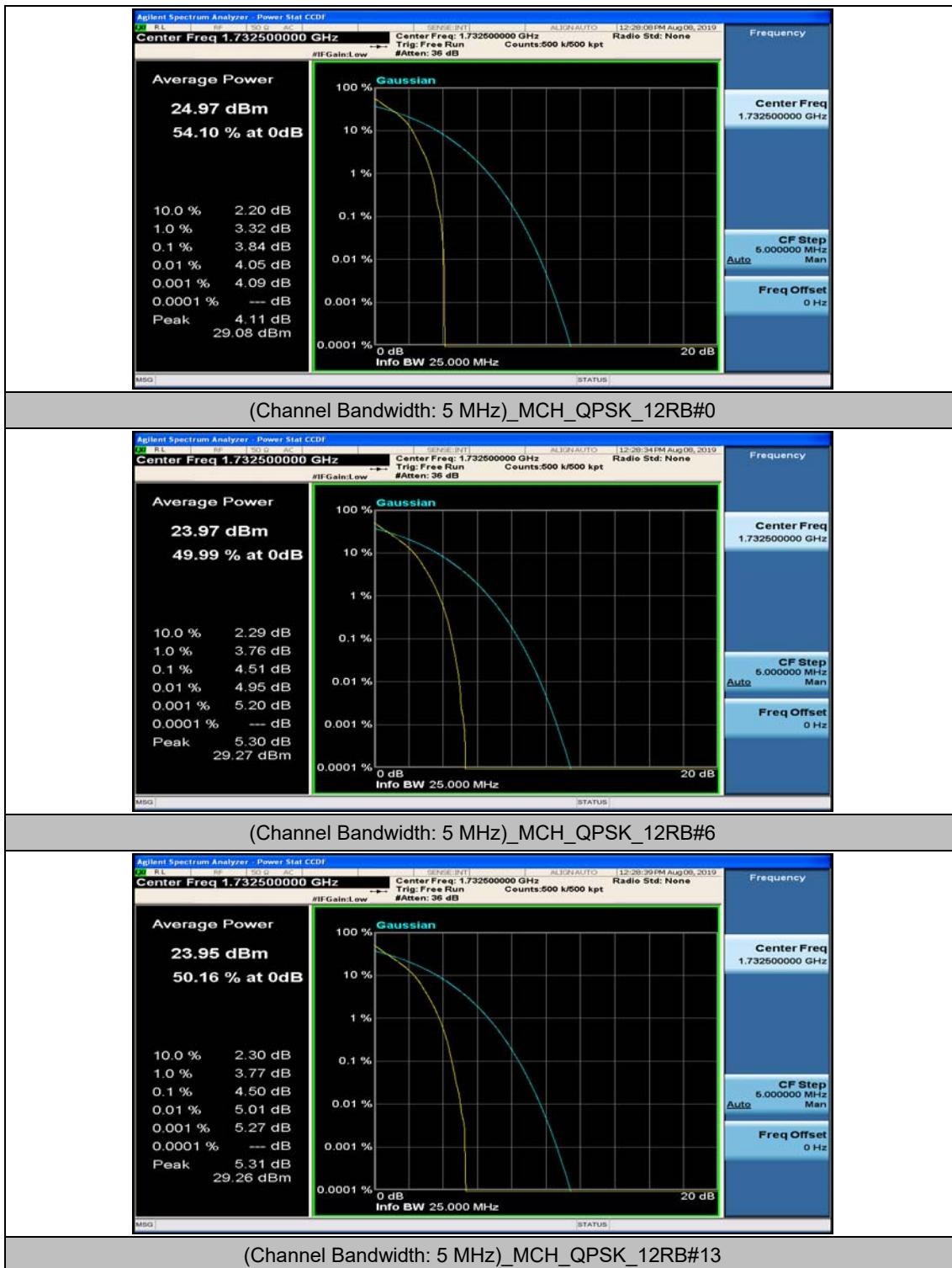
Channel Bandwidth: 5 MHz

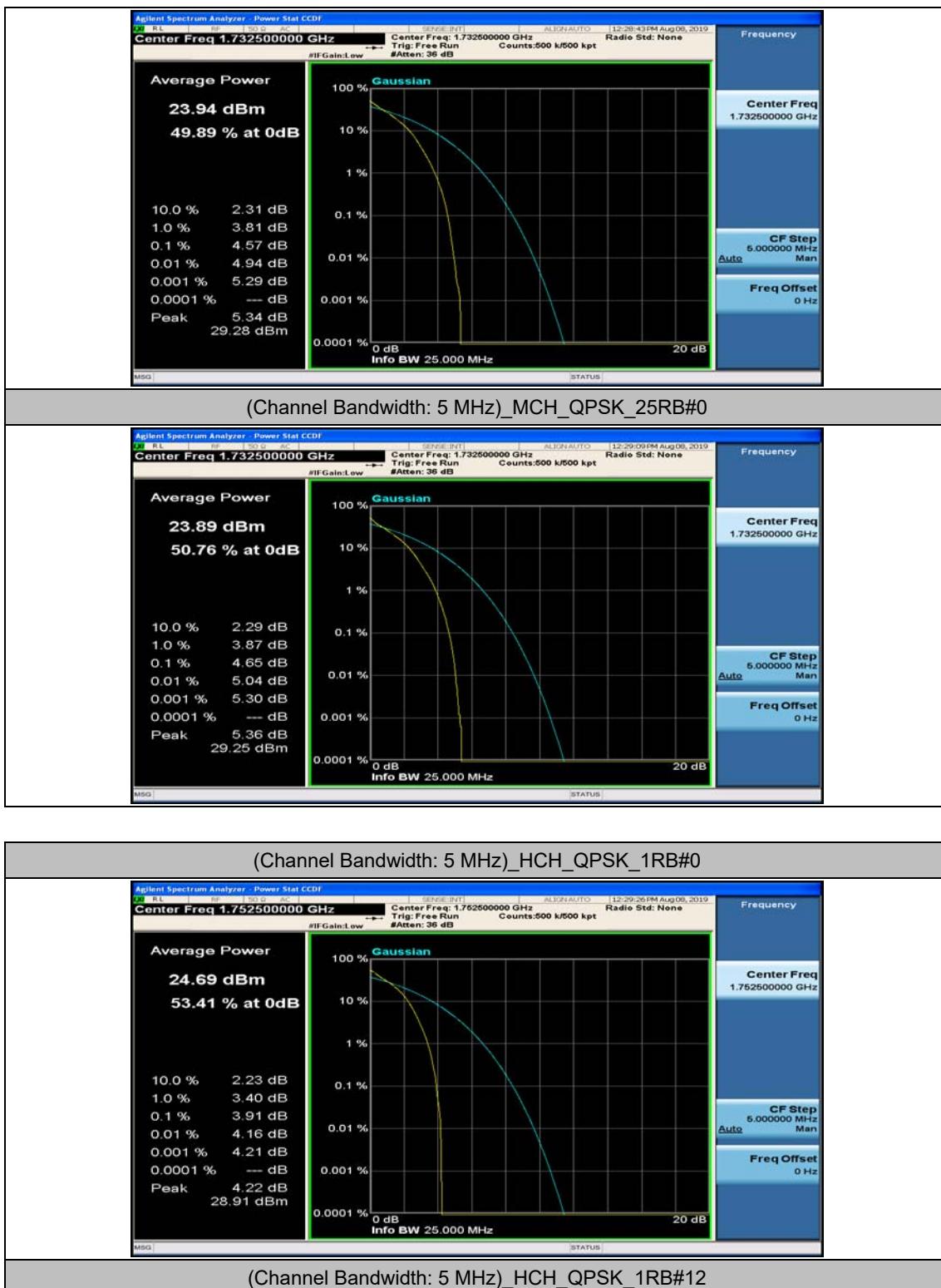


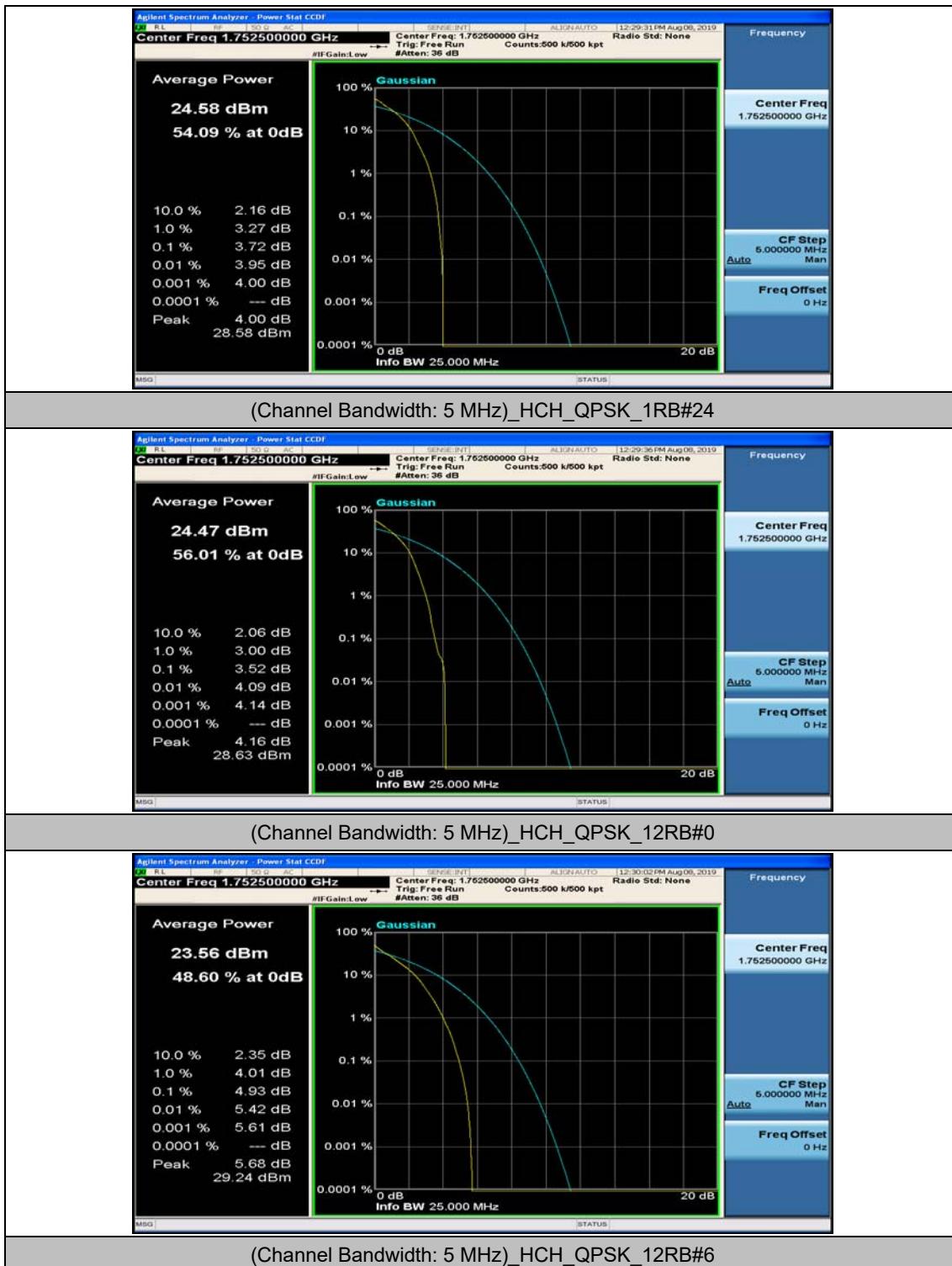


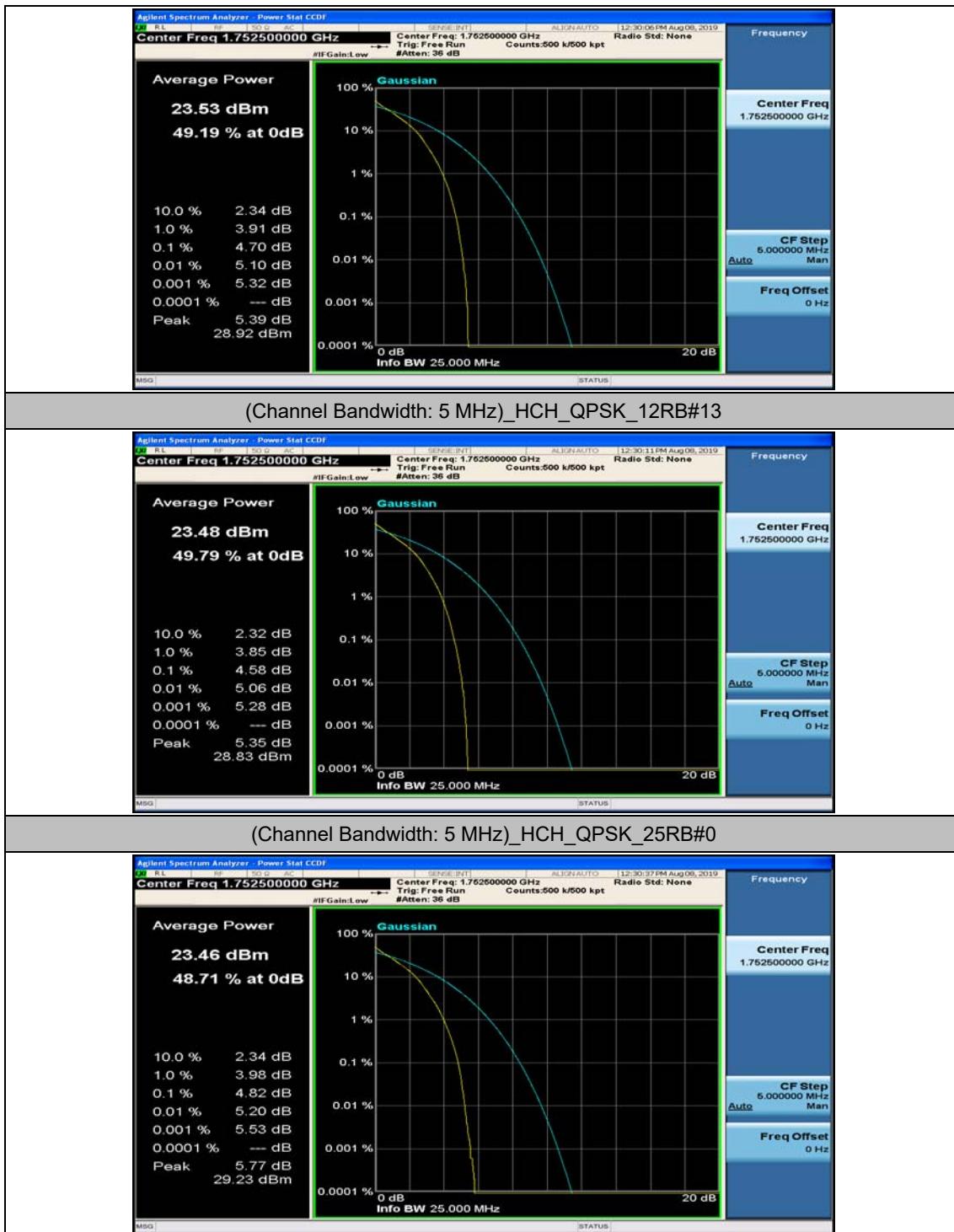


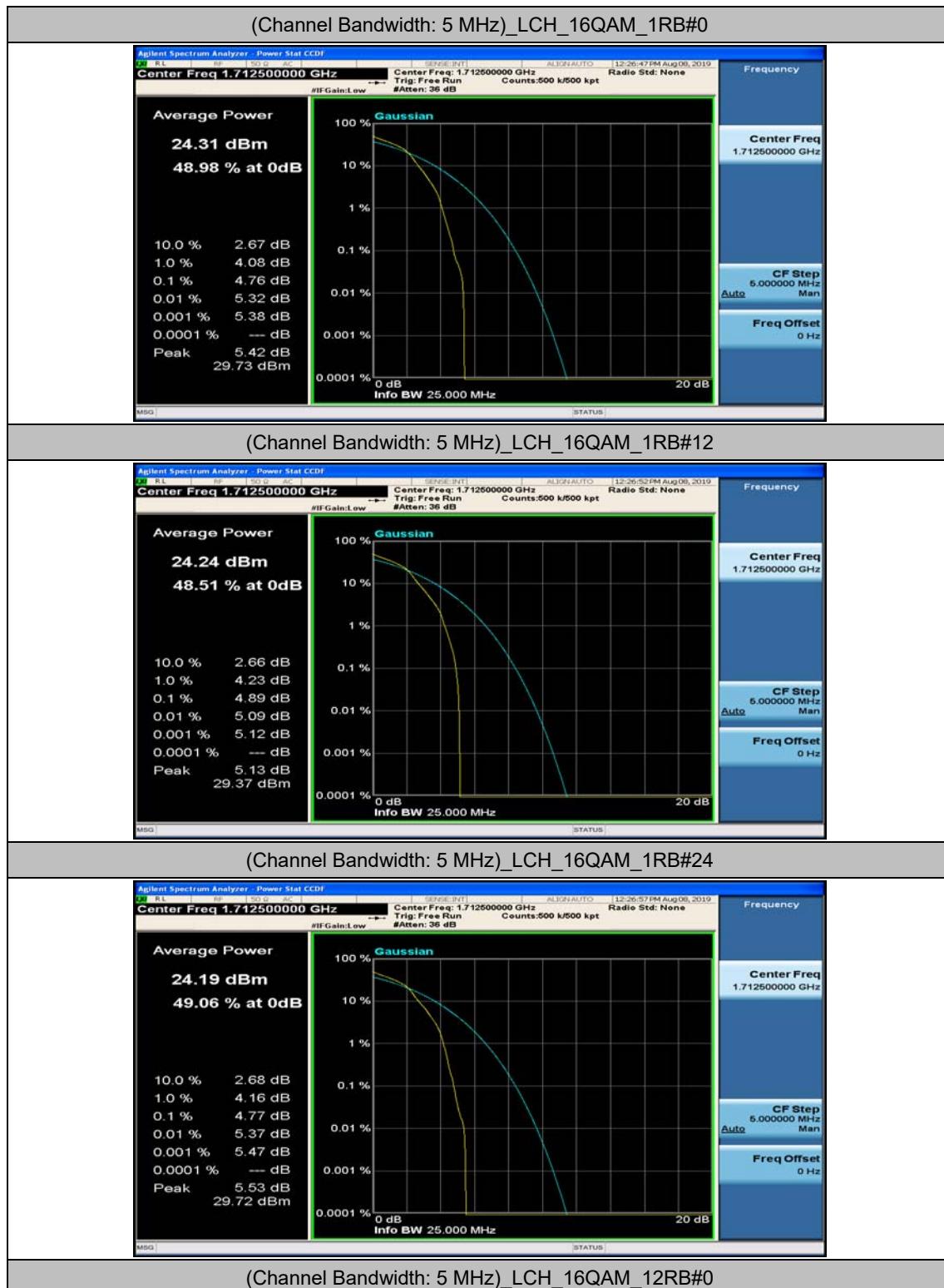
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

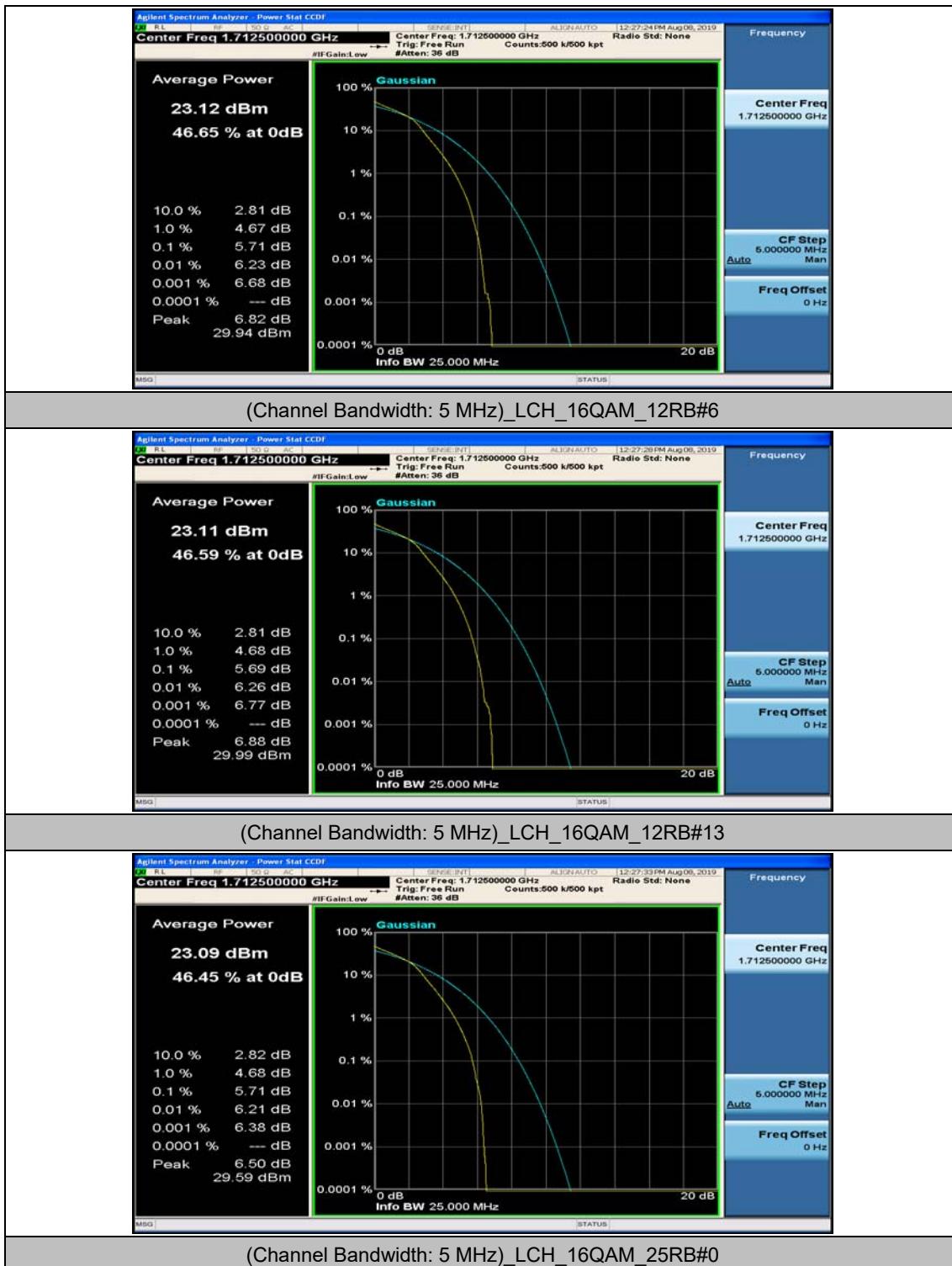


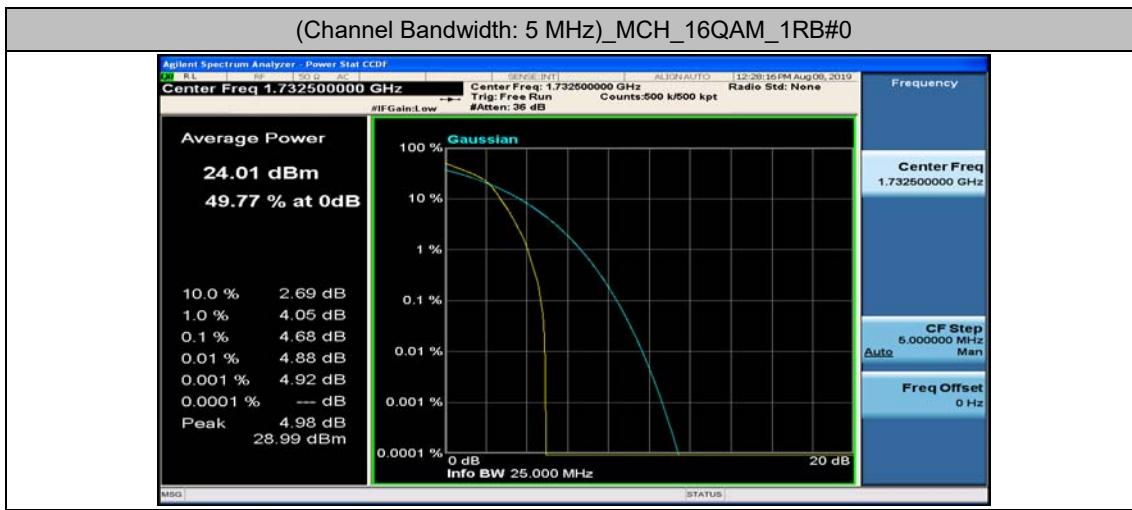
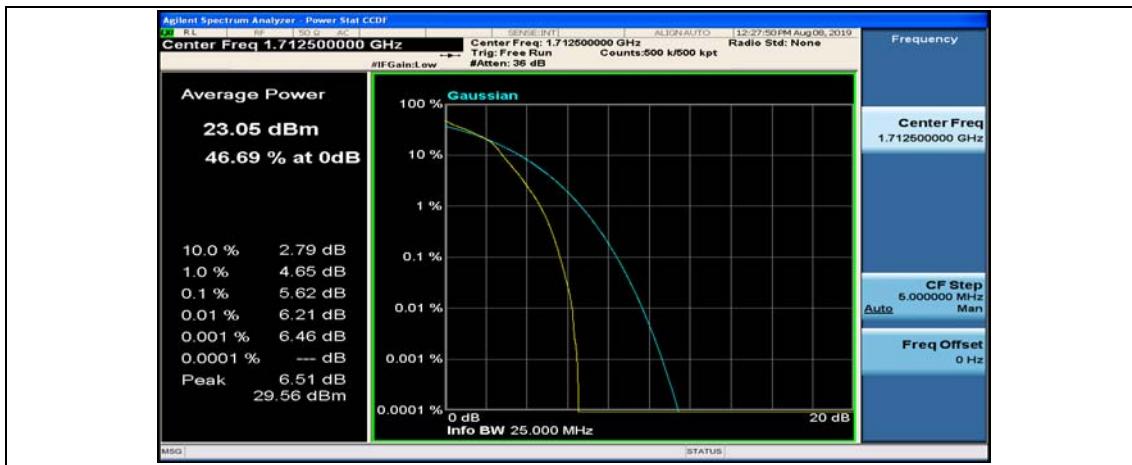




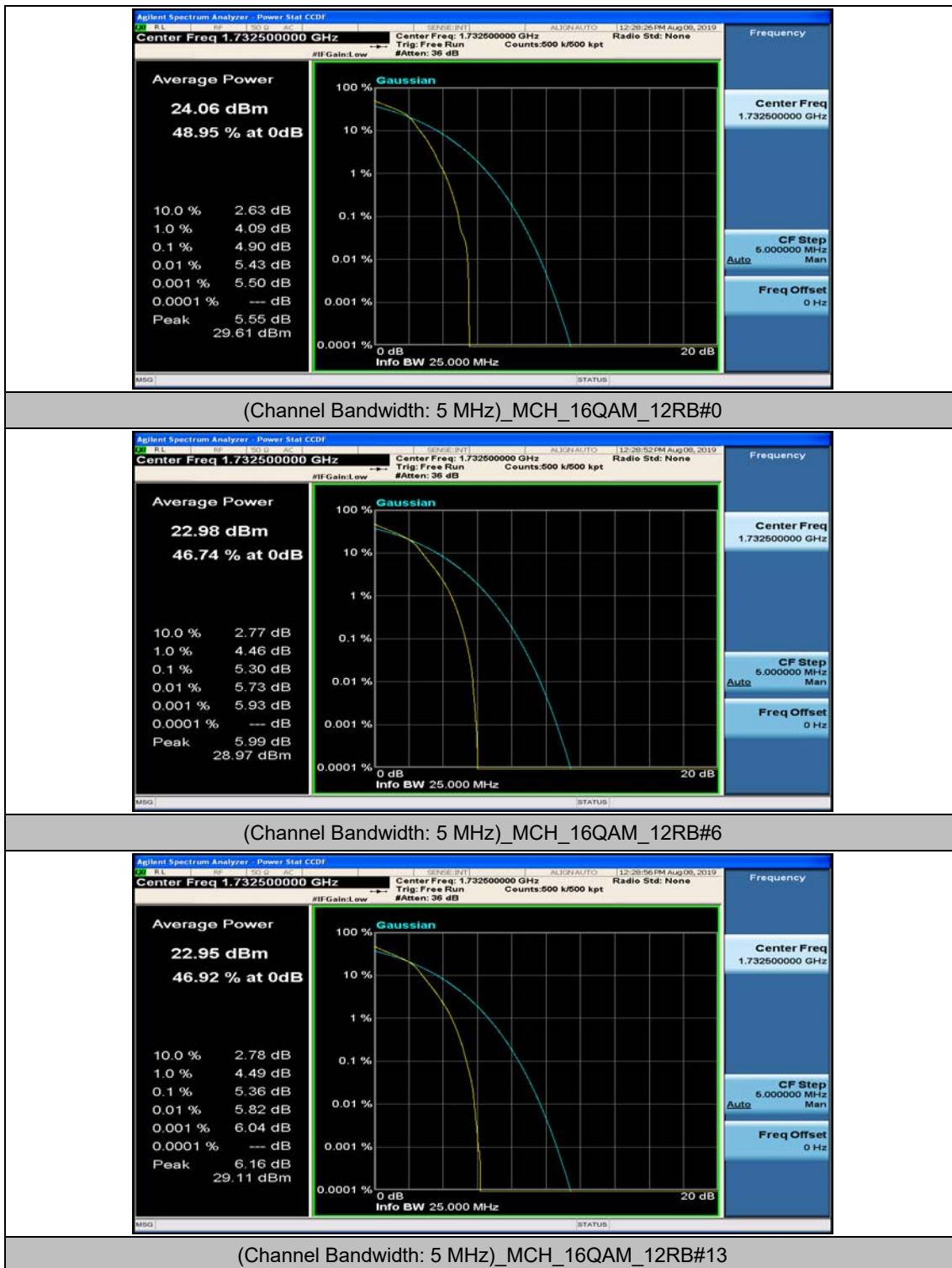


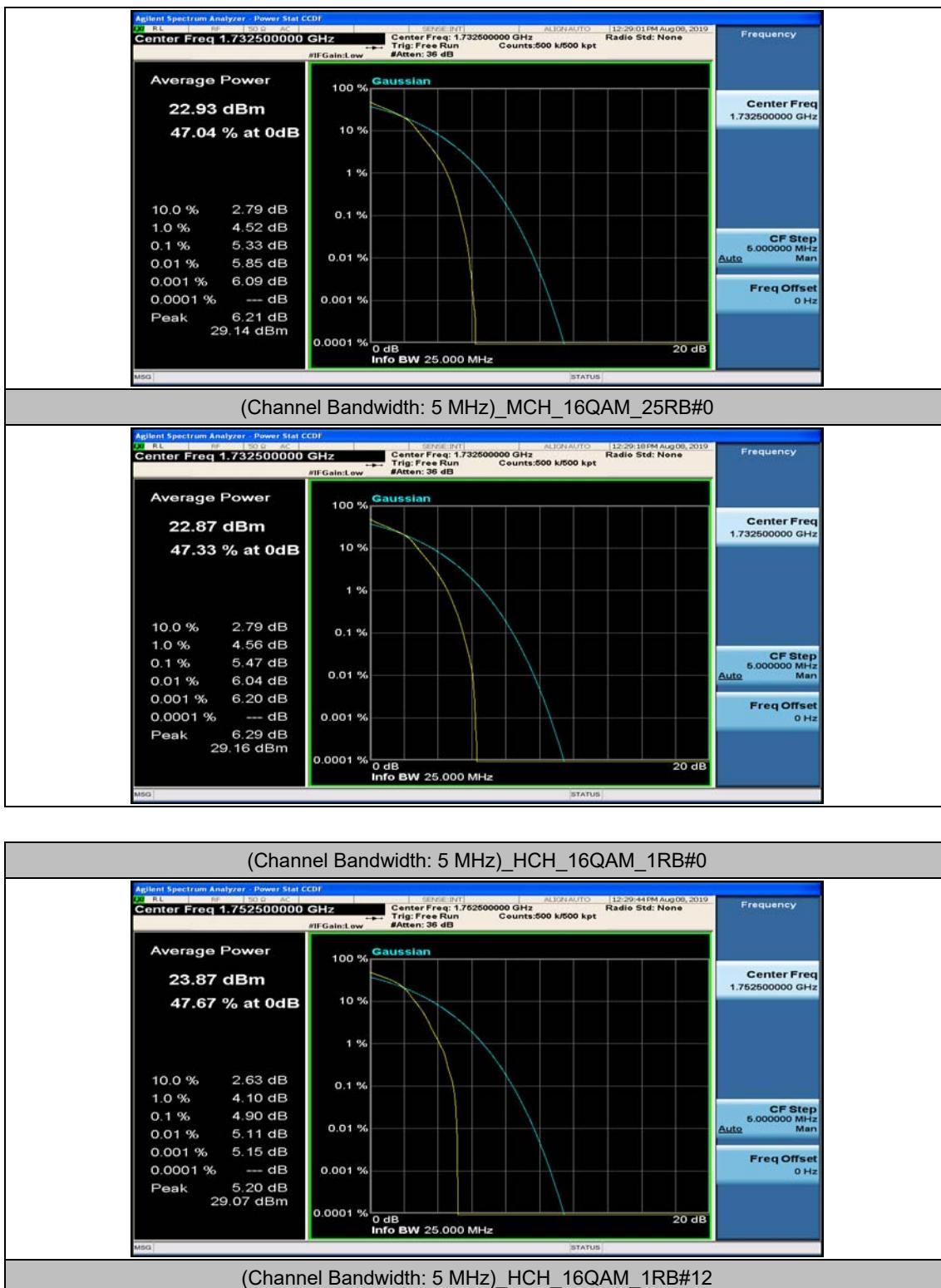


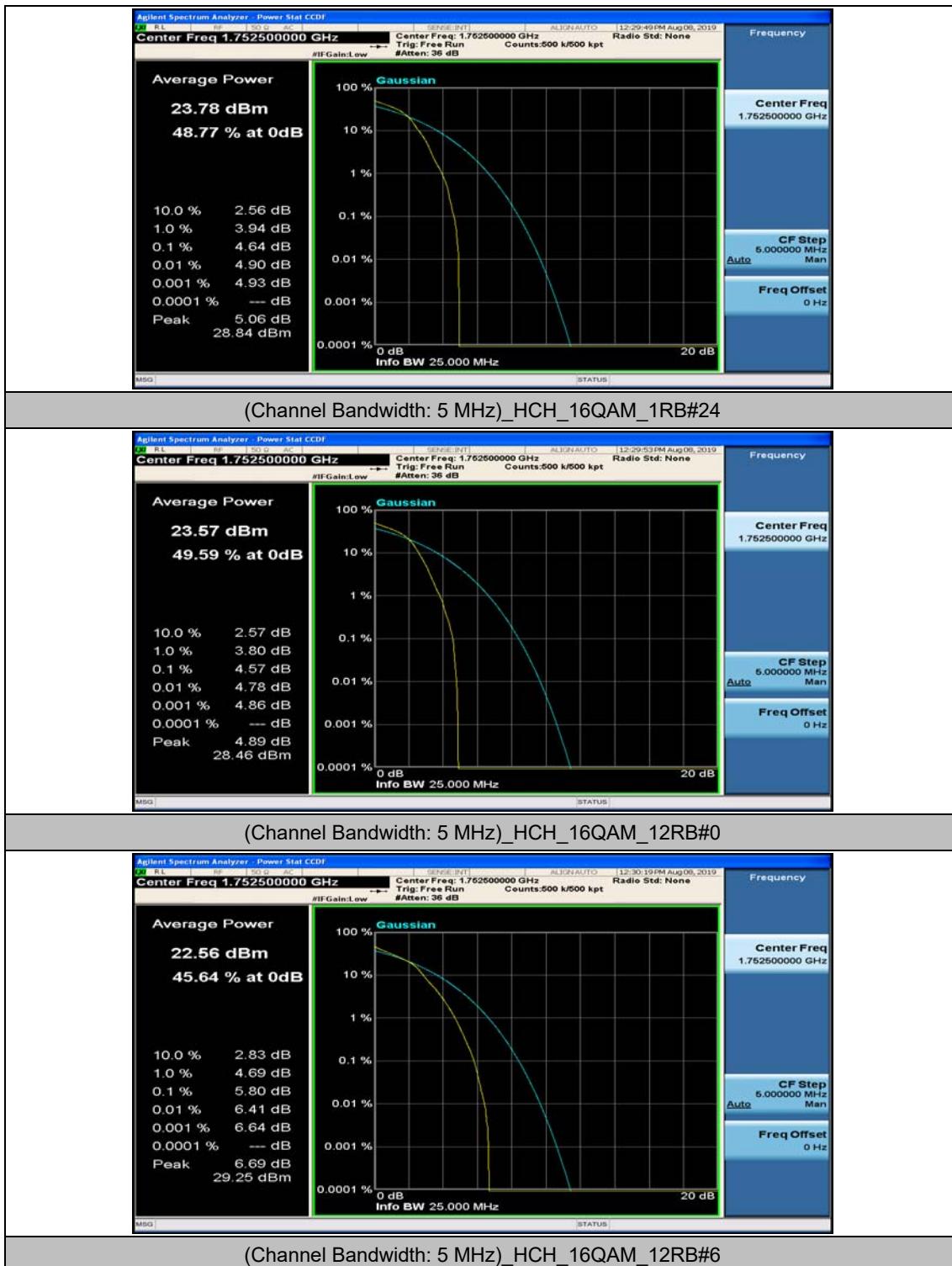


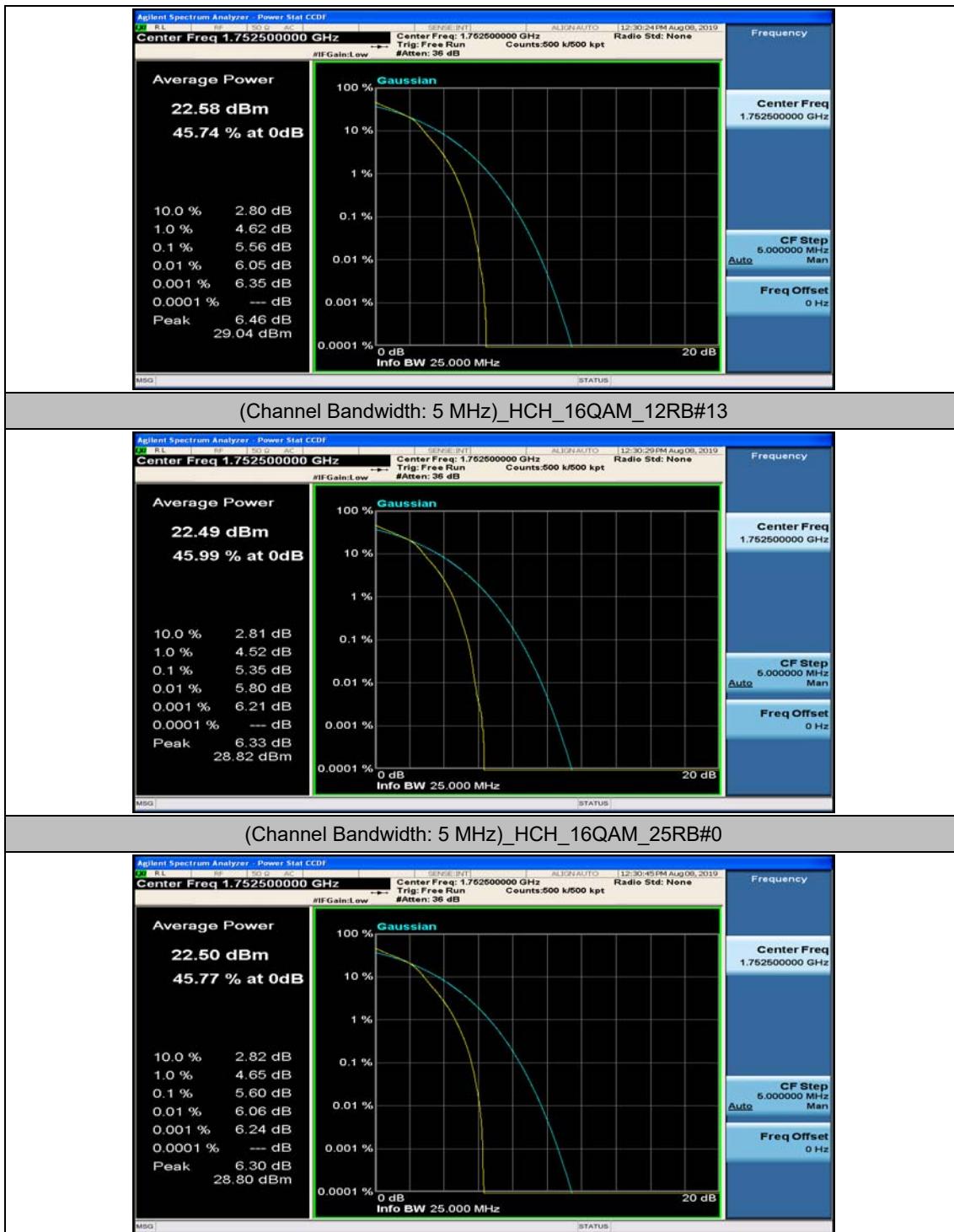


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24









Channel Bandwidth: 10 MHz

