

Appendix for Band 4

Appendix A: Conducted Output Power Data

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	23.59	/	PASS
		1	3	23.40	/	PASS
		1	5	23.94	/	PASS
		3	0	22.31	/	PASS
		3	2	22.39	/	PASS
		3	3	22.72	/	PASS
		6	0	22.53	/	PASS
	MCH	1	0	23.74	/	PASS
		1	3	23.59	/	PASS
		1	5	23.76	/	PASS
		3	0	22.78	/	PASS
		3	2	22.65	/	PASS
		3	3	22.66	/	PASS
		6	0	22.76	/	PASS
16QAM	LCH	1	0	23.80	/	PASS
		1	3	23.37	/	PASS
		1	5	23.03	/	PASS
		3	0	22.62	/	PASS
		3	2	22.36	/	PASS
		3	3	22.19	/	PASS
		6	0	22.41	/	PASS
	MCH	1	0	22.79	/	PASS
		1	3	22.63	/	PASS
		1	5	23.27	/	PASS
		3	0	21.35	/	PASS
		3	2	21.43	/	PASS
		3	3	21.78	/	PASS
		6	0	21.59	/	PASS

		3	0	21.79	/	PASS
		3	2	21.71	/	PASS
		3	3	21.75	/	PASS
		6	0	21.78	/	PASS
HCH		1	0	23.19	/	PASS
		1	3	22.78	/	PASS
		1	5	22.50	/	PASS
		3	0	21.76	/	PASS
		3	2	21.53	/	PASS
		3	3	21.35	/	PASS
		6	0	21.50	/	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	23.85	/	PASS
		1	7	23.64	/	PASS
		1	14	23.58	/	PASS
		8	0	22.98	/	PASS
		8	4	22.85	/	PASS
		8	7	22.79	/	PASS
		15	0	22.89	/	PASS
	MCH	1	0	23.88	/	PASS
		1	7	23.97	/	PASS
		1	14	23.94	/	PASS
		8	0	23.03	/	PASS
		8	4	23.03	/	PASS
		8	7	23.06	/	PASS
		15	0	23.03	/	PASS
	HCH	1	0	23.48	/	PASS
		1	7	23.24	/	PASS
		1	14	23.23	/	PASS
		8	0	22.48	/	PASS
		8	4	22.38	/	PASS
		8	7	22.38	/	PASS
		15	0	22.40	/	PASS
16QAM	LCH	1	0	23.13	/	PASS
		1	7	23.04	/	PASS
		1	14	22.94	/	PASS
		8	0	22.05	/	PASS
		8	4	22.02	/	PASS

		8	7	21.95	/	PASS
		15	0	21.93	/	PASS
MCH		1	0	23.15	/	PASS
		1	7	23.26	/	PASS
		1	14	23.20	/	PASS
		8	0	22.10	/	PASS
		8	4	22.08	/	PASS
		8	7	22.10	/	PASS
		15	0	22.00	/	PASS
HCH		1	0	22.89	/	PASS
		1	7	22.71	/	PASS
		1	14	22.70	/	PASS
		8	0	21.59	/	PASS
		8	4	21.50	/	PASS
		8	7	21.50	/	PASS
		15	0	21.53	/	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	23.88	/	PASS
		1	12	23.17	/	PASS
		1	24	23.49	/	PASS
		12	0	22.56	/	PASS
		12	6	22.30	/	PASS
		12	13	22.28	/	PASS
		25	0	22.39	/	PASS
	MCH	1	0	24.02	/	PASS
		1	12	23.61	/	PASS
		1	24	23.97	/	PASS
		12	0	22.97	/	PASS
		12	6	22.76	/	PASS
		12	13	22.80	/	PASS
		25	0	22.84	/	PASS
	HCH	1	0	23.48	/	PASS
		1	12	22.79	/	PASS
		1	24	23.07	/	PASS
		12	0	22.11	/	PASS
		12	6	21.91	/	PASS
		12	13	21.91	/	PASS
		25	0	22.02	/	PASS

16QAM	LCH	1	0	23.31	/	PASS
		1	12	22.60	/	PASS
		1	24	22.96	/	PASS
		12	0	21.75	/	PASS
		12	6	21.51	/	PASS
		12	13	21.50	/	PASS
		25	0	21.49	/	PASS
	MCH	1	0	23.39	/	PASS
		1	12	23.05	/	PASS
		1	24	23.44	/	PASS
		12	0	22.14	/	PASS
		12	6	21.98	/	PASS
		12	13	22.03	/	PASS
		25	0	21.94	/	PASS
	HCH	1	0	22.57	/	PASS
		1	12	21.87	/	PASS
		1	24	22.20	/	PASS
		12	0	21.29	/	PASS
		12	6	21.07	/	PASS
		12	13	21.06	/	PASS
		25	0	21.14	/	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	23.27	/	PASS
		1	24	22.99	/	PASS
		1	49	23.09	/	PASS
		25	0	22.27	/	PASS
		25	12	22.11	/	PASS
		25	25	22.13	/	PASS
		50	0	22.21	/	PASS
	MCH	1	0	23.57	/	PASS
		1	24	23.50	/	PASS
		1	49	23.39	/	PASS
		25	0	22.77	/	PASS
		25	12	22.67	/	PASS
		25	25	22.61	/	PASS
		50	0	22.72	/	PASS
	HCH	1	0	23.33	/	PASS
		1	24	22.96	/	PASS

		1	49	22.60	/	PASS
		25	0	22.32	/	PASS
		25	12	22.06	/	PASS
		25	25	21.89	/	PASS
		50	0	22.12	/	PASS
16QAM	LCH	1	0	22.60	/	PASS
		1	24	22.36	/	PASS
		1	49	22.46	/	PASS
		25	0	21.35	/	PASS
		25	12	21.20	/	PASS
		25	25	21.21	/	PASS
		50	0	21.27	/	PASS
	MCH	1	0	22.95	/	PASS
		1	24	22.86	/	PASS
		1	49	22.80	/	PASS
		25	0	21.86	/	PASS
		25	12	21.76	/	PASS
		25	25	21.71	/	PASS
		50	0	21.78	/	PASS
	HCH	1	0	22.78	/	PASS
		1	24	22.45	/	PASS
		1	49	22.09	/	PASS
		25	0	21.44	/	PASS
		25	12	21.22	/	PASS
		25	25	21.04	/	PASS
		50	0	21.28	/	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	23.50	/	PASS
		1	37	23.08	/	PASS
		1	74	23.72	/	PASS
		37	0	22.30	/	PASS
		37	18	22.22	/	PASS
		37	38	22.49	/	PASS
		75	0	22.37	/	PASS
	MCH	1	0	23.81	/	PASS
		1	37	23.56	/	PASS
		1	74	23.71	/	PASS
		37	0	22.84	/	PASS

		37	18	22.74	/	PASS
		37	38	22.73	/	PASS
		75	0	22.79	/	PASS
16QAM	HCH	1	0	23.70	/	PASS
		1	37	23.15	/	PASS
		1	74	22.97	/	PASS
		37	0	22.59	/	PASS
		37	18	22.36	/	PASS
		37	38	22.12	/	PASS
		75	0	22.36	/	PASS
		1	0	22.81	/	PASS
16QAM	LCH	1	37	22.43	/	PASS
		1	74	23.08	/	PASS
		37	0	21.35	/	PASS
		37	18	21.28	/	PASS
		37	38	21.55	/	PASS
		75	0	21.44	/	PASS
	MCH	1	0	23.16	/	PASS
		1	37	22.90	/	PASS
		1	74	23.12	/	PASS
		37	0	21.91	/	PASS
		37	18	21.83	/	PASS
		37	38	21.82	/	PASS
		75	0	21.89	/	PASS
16QAM	HCH	1	0	23.09	/	PASS
		1	37	22.53	/	PASS
		1	74	22.35	/	PASS
		37	0	21.71	/	PASS
		37	18	21.48	/	PASS
		37	38	21.28	/	PASS
		75	0	21.45	/	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	23.98	/	PASS
		1	49	23.94	/	PASS
		1	99	24.03	/	PASS
		50	0	23.88	/	PASS
		50	25	23.82	/	PASS
		50	50	23.80	/	PASS

		100	0	23.02	/	PASS
MCH	HCH	1	0	23.97	/	PASS
		1	49	24.00	/	PASS
		1	99	23.98	/	PASS
		50	0	24.01	/	PASS
		50	25	24.01	/	PASS
		50	50	24.02	/	PASS
		100	0	23.01	/	PASS
LCH	MCH	1	0	23.33	/	PASS
		1	49	23.15	/	PASS
		1	99	23.25	/	PASS
		50	0	23.23	/	PASS
		50	25	23.14	/	PASS
		50	50	23.19	/	PASS
		100	0	22.34	/	PASS
16QAM	HCH	1	0	23.12	/	PASS
		1	49	23.19	/	PASS
		1	99	23.16	/	PASS
		50	0	23.09	/	PASS
		50	25	23.03	/	PASS
		50	50	23.03	/	PASS
		100	0	21.99	/	PASS
MCH	HCH	1	0	23.20	/	PASS
		1	49	23.30	/	PASS
		1	99	23.20	/	PASS
		50	0	23.10	/	PASS
		50	25	23.06	/	PASS
		50	50	23.11	/	PASS
		100	0	22.01	/	PASS
HCH	HCH	1	0	22.77	/	PASS
		1	49	22.65	/	PASS
		1	99	22.71	/	PASS
		50	0	22.33	/	PASS
		50	25	22.29	/	PASS
		50	50	22.33	/	PASS
		100	0	21.42	/	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	3.53	<13	PASS
		1	3	3.7	<13	PASS
		1	5	3.69	<13	PASS
		3	0	3.97	<13	PASS
		3	2	3.97	<13	PASS
		3	3	3.98	<13	PASS
		6	0	5.09	<13	PASS
	MCH	1	0	3.8	<13	PASS
		1	3	3.75	<13	PASS
		1	5	3.78	<13	PASS
		3	0	4.11	<13	PASS
		3	2	4.02	<13	PASS
		3	3	4.01	<13	PASS
		6	0	5.18	<13	PASS
16QAM	LCH	1	0	4	<13	PASS
		1	3	4.07	<13	PASS
		1	5	4	<13	PASS
		3	0	4.43	<13	PASS
		3	2	4.37	<13	PASS
		3	3	4.35	<13	PASS
		6	0	5.23	<13	PASS
	MCH	1	0	4.46	<13	PASS
		1	3	4.58	<13	PASS
		1	5	4.53	<13	PASS
		3	0	4.78	<13	PASS
		3	2	4.78	<13	PASS
		3	3	4.79	<13	PASS
		6	0	5.85	<13	PASS

		3	2	4.95	<13	PASS
		3	3	4.93	<13	PASS
		6	0	6.04	<13	PASS
HCH		1	0	4.85	<13	PASS
		1	3	4.92	<13	PASS
		1	5	4.84	<13	PASS
		3	0	5.11	<13	PASS
		3	2	5.07	<13	PASS
		3	3	5.05	<13	PASS
		6	0	6.02	<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	3.55	<13	PASS
		1	7	3.81	<13	PASS
		1	14	3.92	<13	PASS
		8	0	4.91	<13	PASS
		8	4	5.04	<13	PASS
		8	7	5.06	<13	PASS
		15	0	5.26	<13	PASS
	MCH	1	0	3.86	<13	PASS
		1	7	3.83	<13	PASS
		1	14	3.84	<13	PASS
		8	0	5.11	<13	PASS
		8	4	5.1	<13	PASS
		8	7	5.02	<13	PASS
		15	0	5.3	<13	PASS
	HCH	1	0	3.95	<13	PASS
		1	7	4.01	<13	PASS
		1	14	4.02	<13	PASS
		8	0	5.22	<13	PASS
		8	4	5.18	<13	PASS
		8	7	5.22	<13	PASS
		15	0	5.42	<13	PASS
16QAM	LCH	1	0	4.39	<13	PASS
		1	7	4.55	<13	PASS
		1	14	4.74	<13	PASS
		8	0	5.68	<13	PASS
		8	4	5.7	<13	PASS

		8	7	5.78	<13	PASS
		15	0	6.17	<13	PASS
MCH	1	0	4.76	<13	PASS	
	1	7	4.71	<13	PASS	
	1	14	4.7	<13	PASS	
	8	0	5.79	<13	PASS	
	8	4	5.79	<13	PASS	
	8	7	5.81	<13	PASS	
	15	0	6.21	<13	PASS	
HCH	1	0	4.77	<13	PASS	
	1	7	4.89	<13	PASS	
	1	14	4.83	<13	PASS	
	8	0	5.8	<13	PASS	
	8	4	5.85	<13	PASS	
	8	7	5.9	<13	PASS	
	15	0	6.17	<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	3.52	<13	PASS
		1	12	4.21	<13	PASS
		1	24	4.11	<13	PASS
		12	0	5.22	<13	PASS
		12	6	5.3	<13	PASS
		12	13	5.41	<13	PASS
		25	0	5.52	<13	PASS
	MCH	1	0	3.68	<13	PASS
		1	12	4.04	<13	PASS
		1	24	3.83	<13	PASS
		12	0	5.1	<13	PASS
		12	6	5.15	<13	PASS
		12	13	5.17	<13	PASS
		25	0	5.42	<13	PASS
	HCH	1	0	3.97	<13	PASS
		1	12	4.4	<13	PASS
		1	24	4.12	<13	PASS
		12	0	5.35	<13	PASS
		12	6	5.37	<13	PASS
		12	13	5.39	<13	PASS

		25	0	5.54	<13	PASS
16QAM	LCH	1	0	4.37	<13	PASS
		1	12	4.99	<13	PASS
		1	24	4.89	<13	PASS
		12	0	6.01	<13	PASS
		12	6	6.12	<13	PASS
		12	13	6.19	<13	PASS
		25	0	6.27	<13	PASS
	MCH	1	0	4.57	<13	PASS
		1	12	4.84	<13	PASS
		1	24	4.66	<13	PASS
		12	0	5.91	<13	PASS
		12	6	5.95	<13	PASS
		12	13	6.01	<13	PASS
		25	0	6.2	<13	PASS
	HCH	1	0	4.61	<13	PASS
		1	12	5.08	<13	PASS
		1	24	4.68	<13	PASS
		12	0	6.28	<13	PASS
		12	6	6.21	<13	PASS
		12	13	6.22	<13	PASS
		25	0	6.27	<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	3.97	<13	PASS
		1	24	4.39	<13	PASS
		1	49	4.39	<13	PASS
		25	0	5.41	<13	PASS
		25	12	5.49	<13	PASS
		25	25	5.49	<13	PASS
		50	0	5.58	<13	PASS
	MCH	1	0	4.07	<13	PASS
		1	24	4.11	<13	PASS
		1	49	4.14	<13	PASS
		25	0	5.29	<13	PASS
		25	12	5.31	<13	PASS
		25	25	5.33	<13	PASS
		50	0	5.45	<13	PASS

		1	0	4.1	<13	PASS
	HCH	1	24	4.31	<13	PASS
		1	49	4.36	<13	PASS
		25	0	5.4	<13	PASS
		25	12	5.43	<13	PASS
		25	25	5.47	<13	PASS
		50	0	5.57	<13	PASS
		1	0	4.76	<13	PASS
	LCH	1	24	5.25	<13	PASS
		1	49	5.2	<13	PASS
		25	0	6.22	<13	PASS
		25	12	6.26	<13	PASS
		25	25	6.31	<13	PASS
		50	0	6.27	<13	PASS
		1	0	4.89	<13	PASS
	MCH	1	24	4.95	<13	PASS
		1	49	4.97	<13	PASS
		25	0	6.11	<13	PASS
		25	12	6.15	<13	PASS
		25	25	6.1	<13	PASS
		50	0	6.15	<13	PASS
		1	0	4.96	<13	PASS
	HCH	1	24	5.12	<13	PASS
		1	49	5.25	<13	PASS
		25	0	6.19	<13	PASS
		25	12	6.22	<13	PASS
		25	25	6.24	<13	PASS
		50	0	6.27	<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	9.17	<13	PASS
		1	37	4.37	<13	PASS
		1	74	8.62	<13	PASS
		37	0	4.74	<13	PASS
		37	18	5.52	<13	PASS
		37	38	4.81	<13	PASS
		75	0	5	<13	PASS
	MCH	1	0	9.34	<13	PASS

		1	37	4.09	<13	PASS
		1	74	8.75	<13	PASS
		37	0	4.66	<13	PASS
		37	18	5.36	<13	PASS
		37	38	4.78	<13	PASS
		75	0	4.97	<13	PASS
		1	0	9.24	<13	PASS
		1	37	4.3	<13	PASS
		1	74	8.45	<13	PASS
		37	0	4.84	<13	PASS
		37	18	6.66	<13	PASS
		37	38	4.66	<13	PASS
		75	0	5	<13	PASS
16QAM	LCH	1	0	9.38	<13	PASS
		1	37	5.22	<13	PASS
		1	74	9.25	<13	PASS
		37	0	5.97	<13	PASS
		37	18	6.3	<13	PASS
		37	38	6.07	<13	PASS
		75	0	6.25	<13	PASS
	MCH	1	0	9.28	<13	PASS
		1	37	4.97	<13	PASS
		1	74	9.4	<13	PASS
		37	0	5.9	<13	PASS
		37	18	6.14	<13	PASS
		37	38	6	<13	PASS
		75	0	6.22	<13	PASS
	HCH	1	0	9.18	<13	PASS
		1	37	5.1	<13	PASS
		1	74	9.21	<13	PASS
		37	0	6.08	<13	PASS
		37	18	6.31	<13	PASS
		37	38	6.01	<13	PASS
		75	0	6.5	<13	PASS

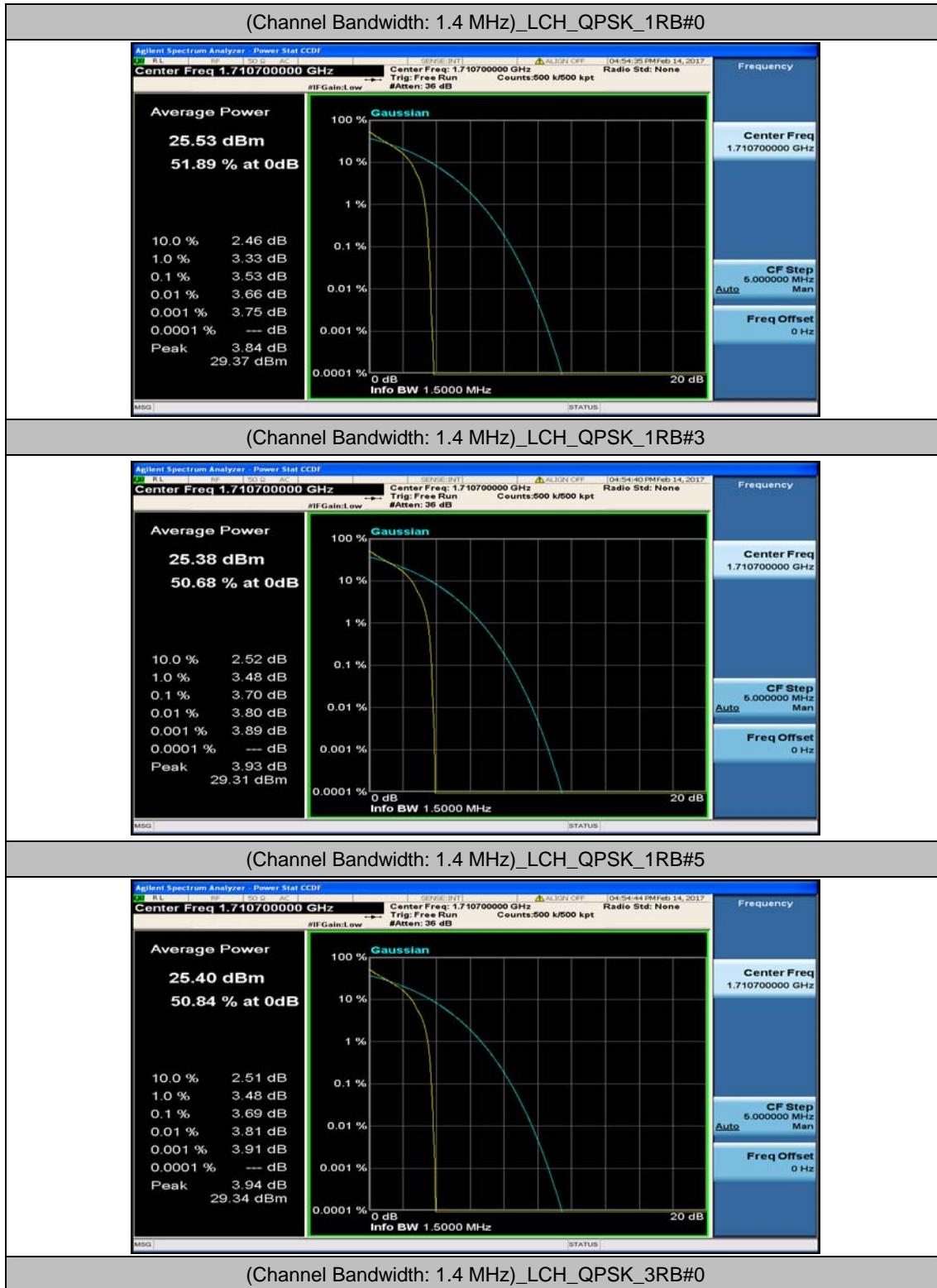
Channel Bandwidth: 20 MHz

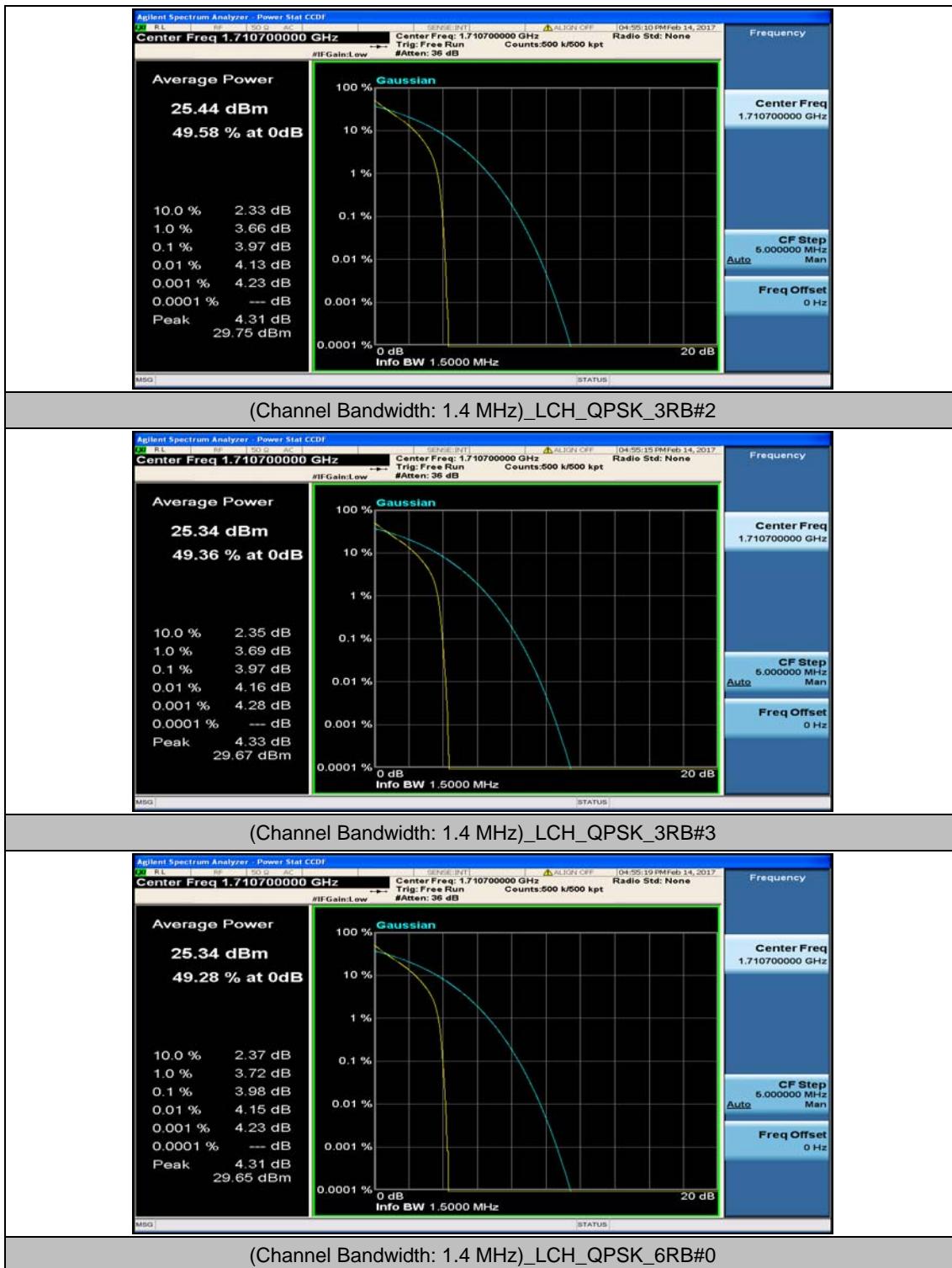
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	8.46	<13	PASS
		1	49	3.99	<13	PASS

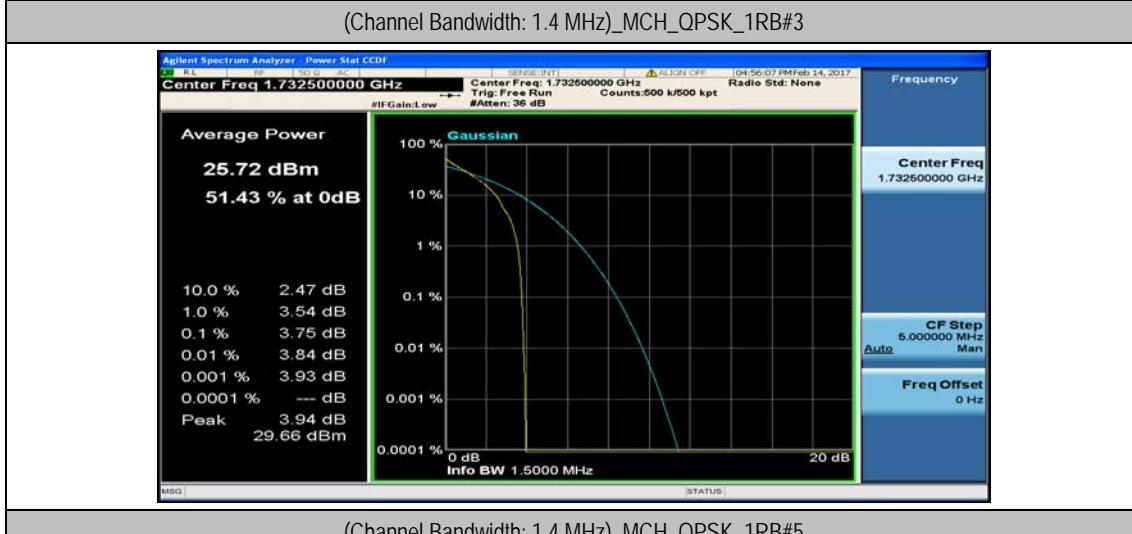
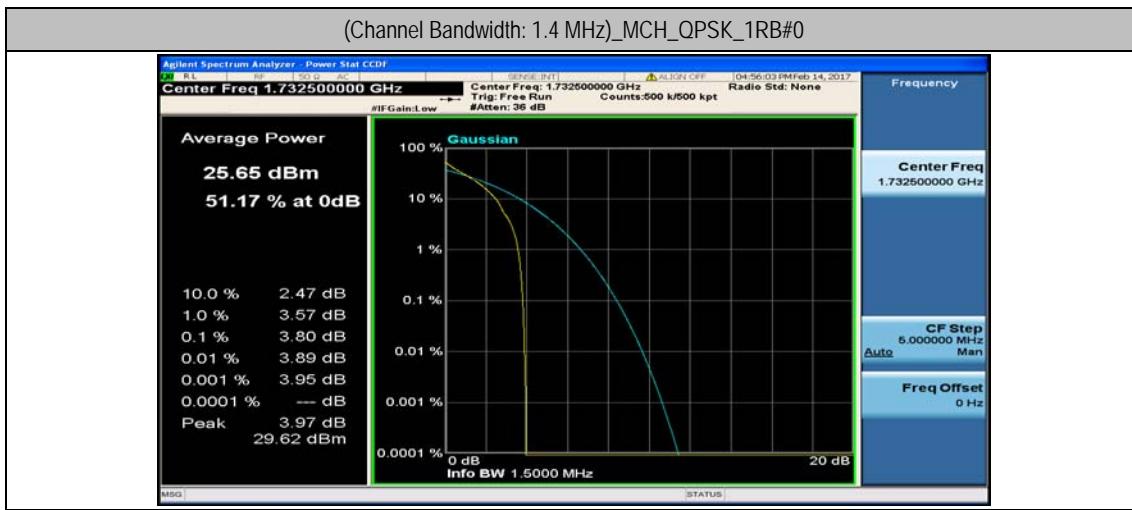
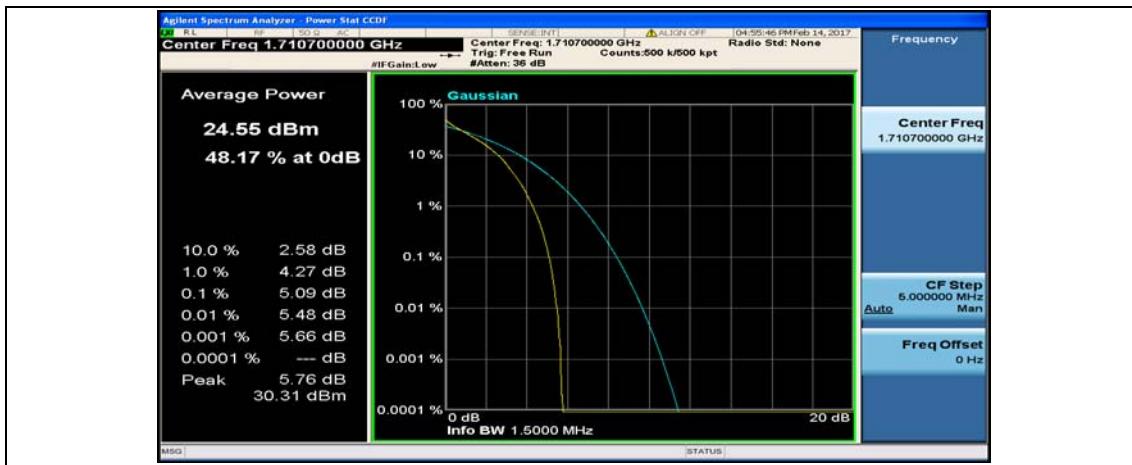
		1	99	8.51	<13	PASS
		50	0	5.58	<13	PASS
		50	25	5.41	<13	PASS
		50	50	5.87	<13	PASS
		100	0	5.7	<13	PASS
	MCH	1	0	8.21	<13	PASS
		1	49	4.58	<13	PASS
		1	99	8.32	<13	PASS
		50	0	5.52	<13	PASS
		50	25	5.48	<13	PASS
		50	50	5.78	<13	PASS
		100	0	5.71	<13	PASS
	HCH	1	0	8.86	<13	PASS
		1	49	4.21	<13	PASS
		1	99	8.73	<13	PASS
		50	0	5.51	<13	PASS
		50	25	5.5	<13	PASS
		50	50	5.81	<13	PASS
		100	0	5.73	<13	PASS
16QAM	LCH	1	0	8.46	<13	PASS
		1	49	5.16	<13	PASS
		1	99	8.45	<13	PASS
		50	0	6.53	<13	PASS
		50	25	6.29	<13	PASS
		50	50	6.6	<13	PASS
		100	0	6.74	<13	PASS
	MCH	1	0	8.32	<13	PASS
		1	49	5.45	<13	PASS
		1	99	8.35	<13	PASS
		50	0	6.5	<13	PASS
		50	25	6.19	<13	PASS
		50	50	6.61	<13	PASS
		100	0	6.77	<13	PASS
	HCH	1	0	9.12	<13	PASS
		1	49	4.9	<13	PASS
		1	99	9.4	<13	PASS
		50	0	6.51	<13	PASS
		50	25	6.19	<13	PASS
		50	50	6.6	<13	PASS
		100	0	6.67	<13	PASS

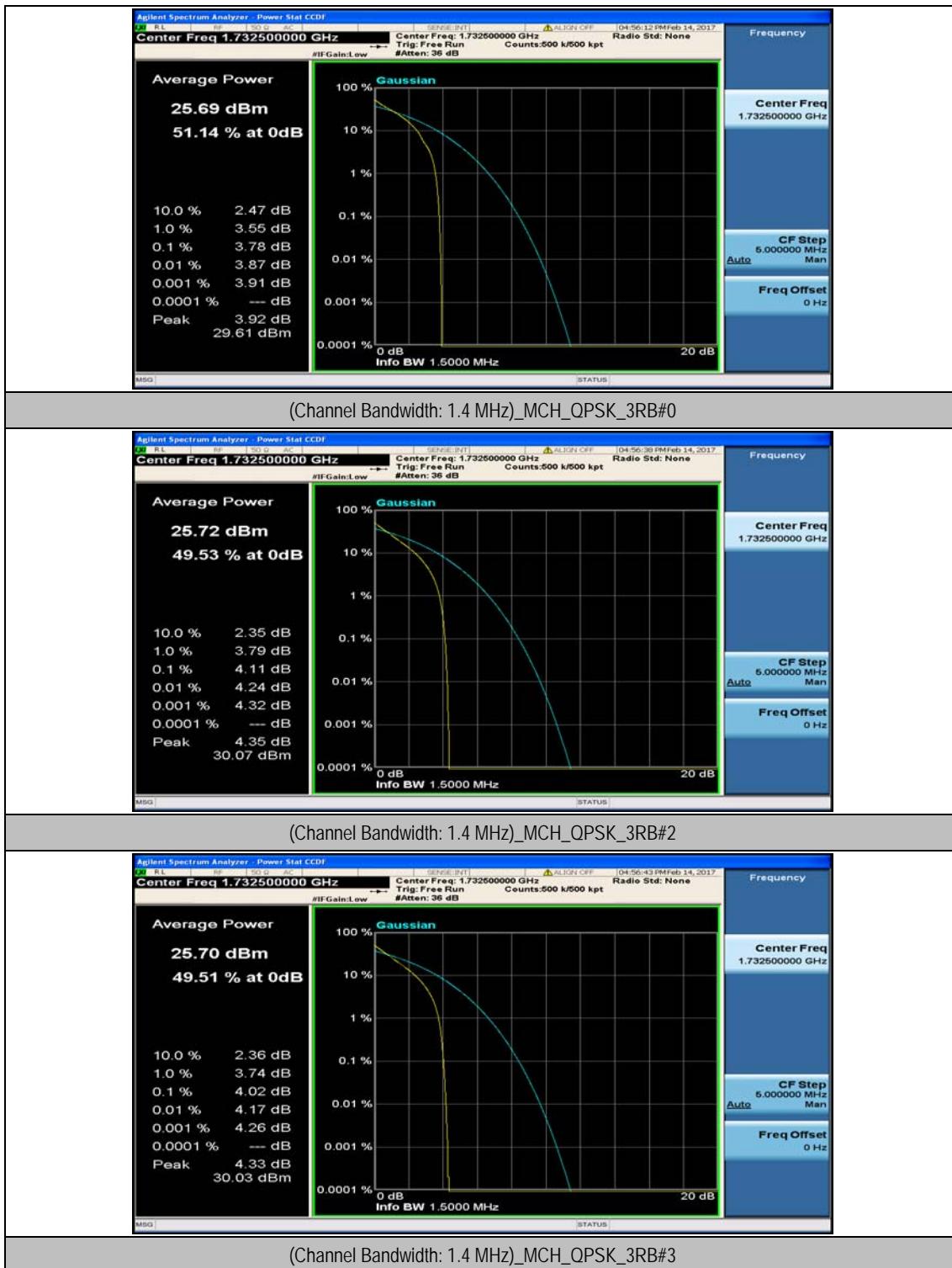
Test Graphs

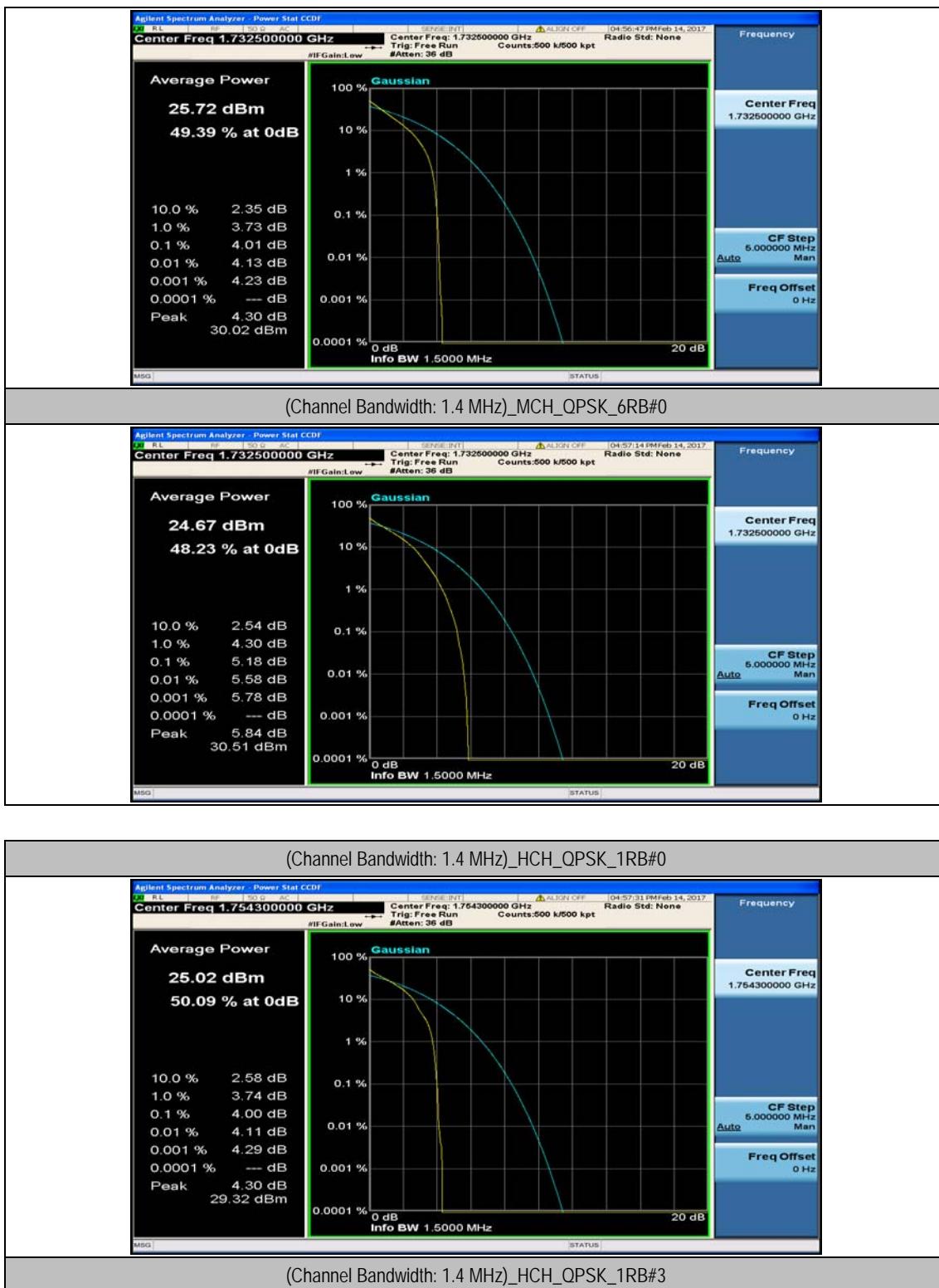
Channel Bandwidth: 1.4 MHz

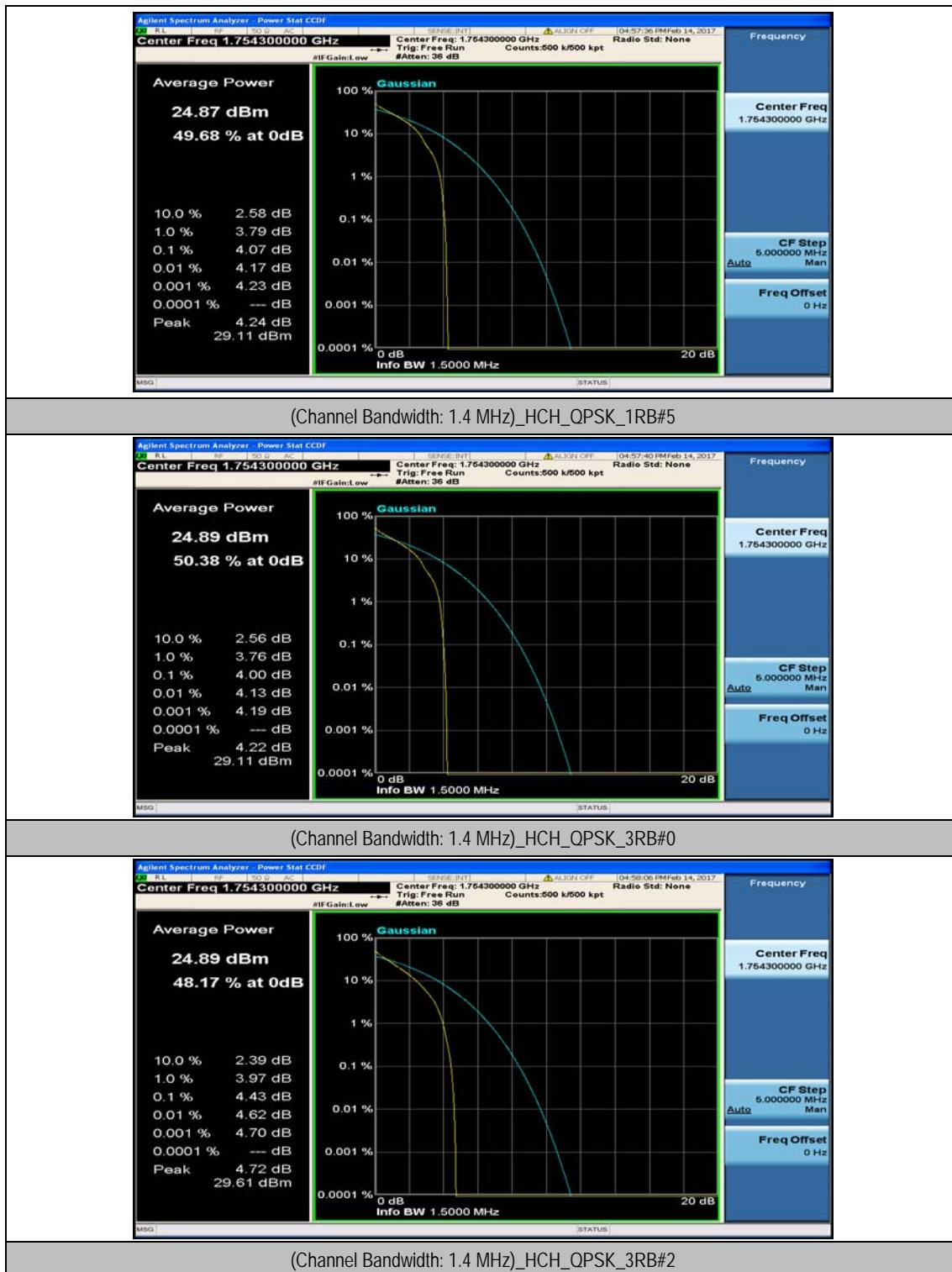


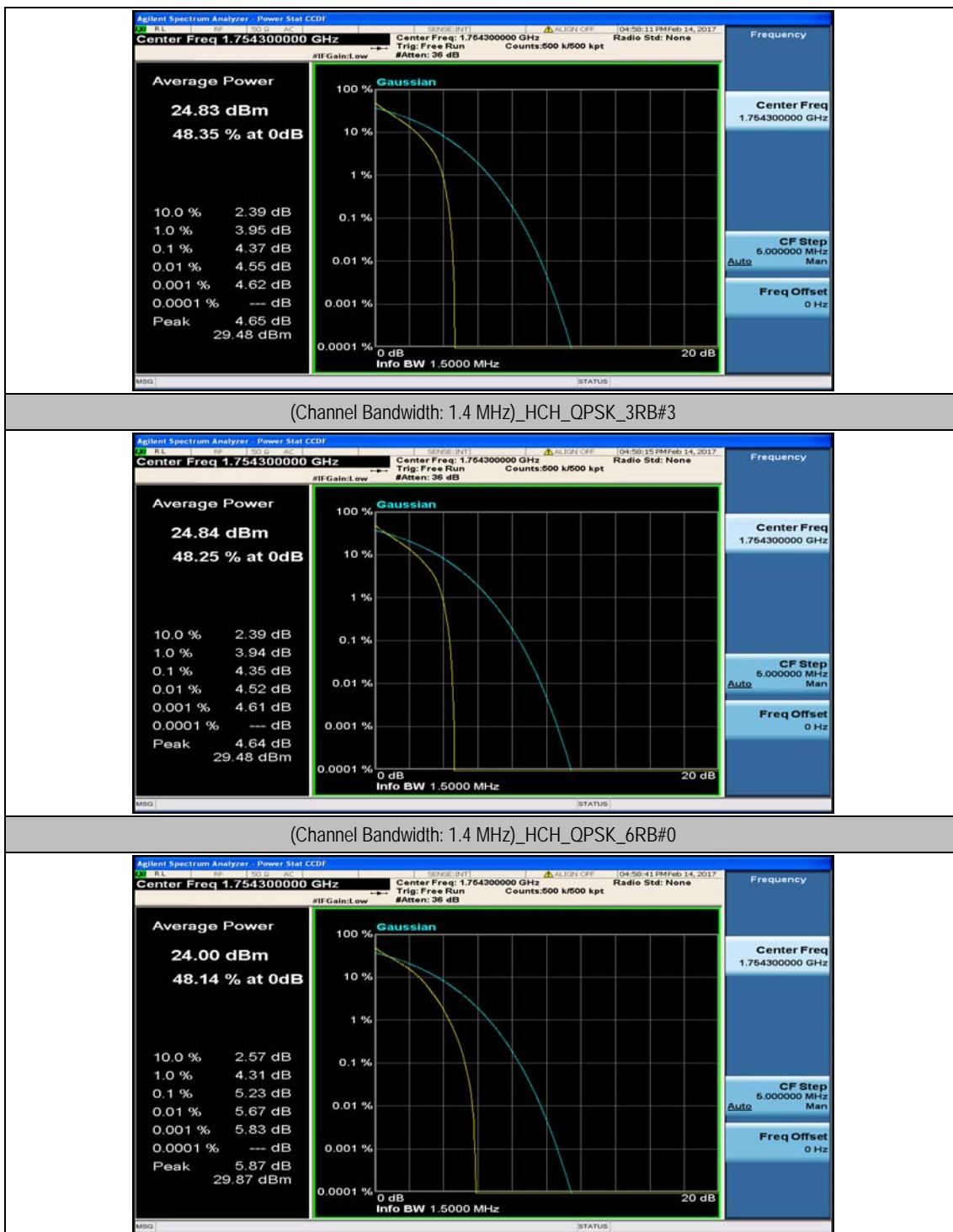


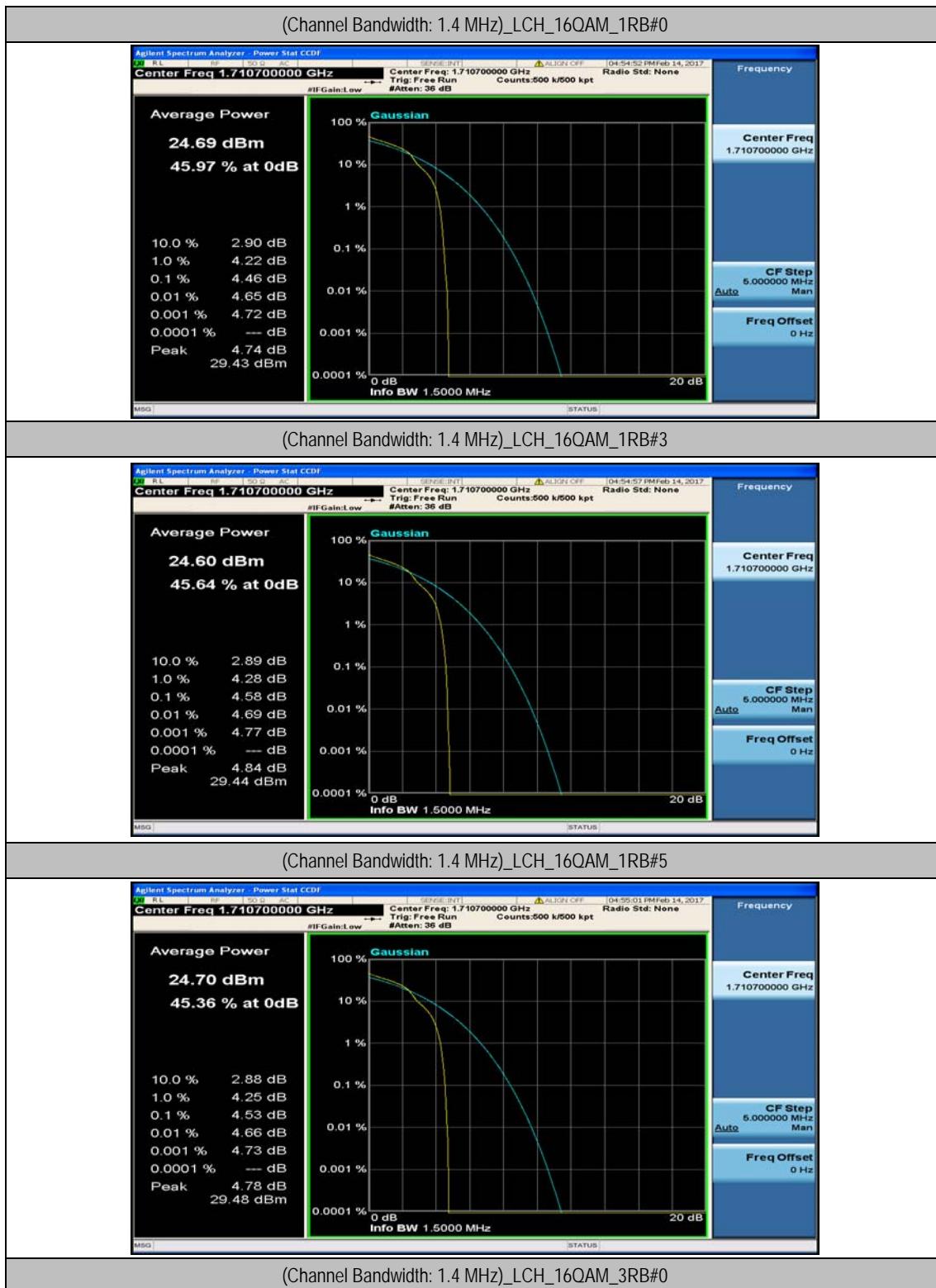


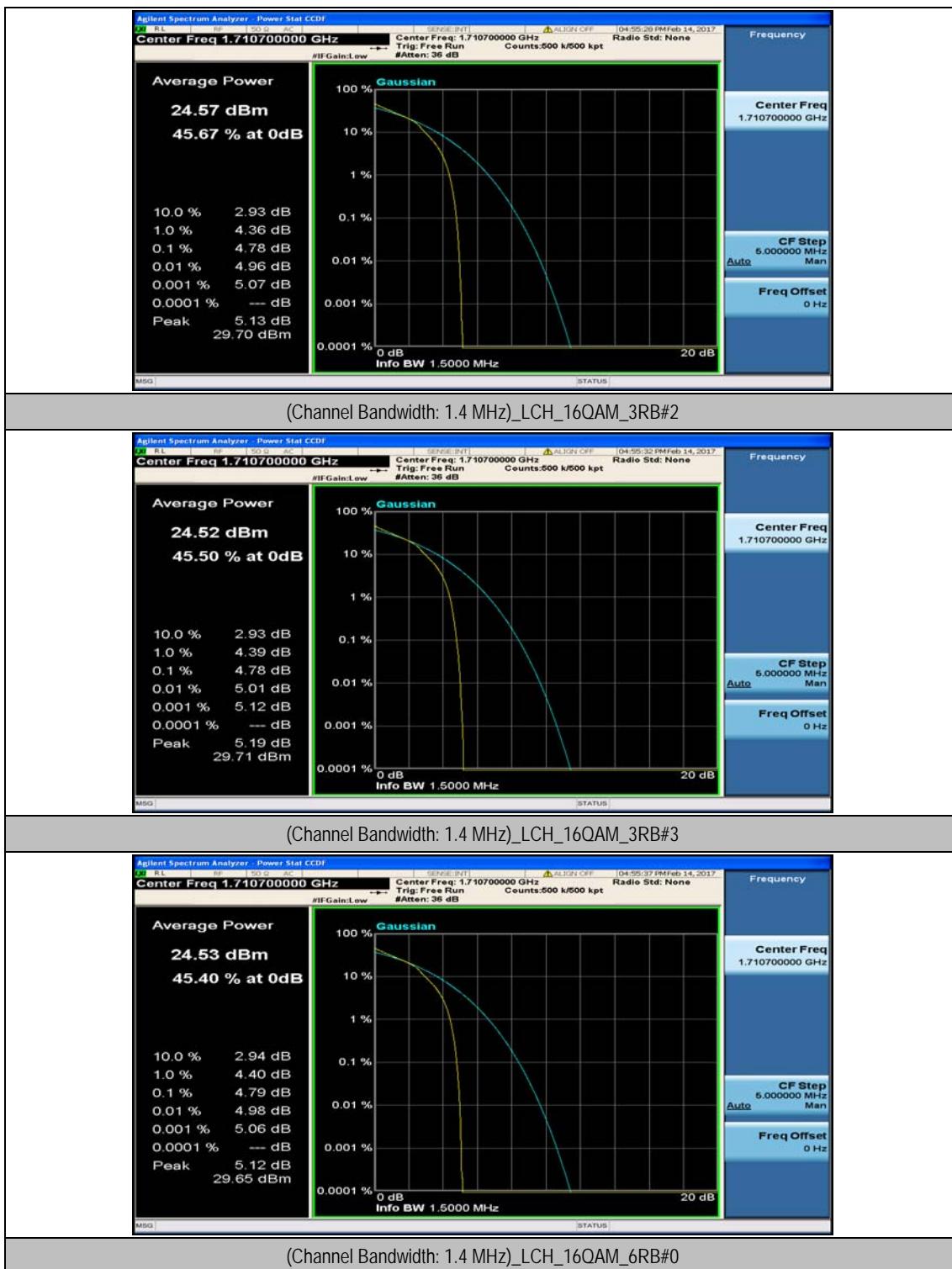


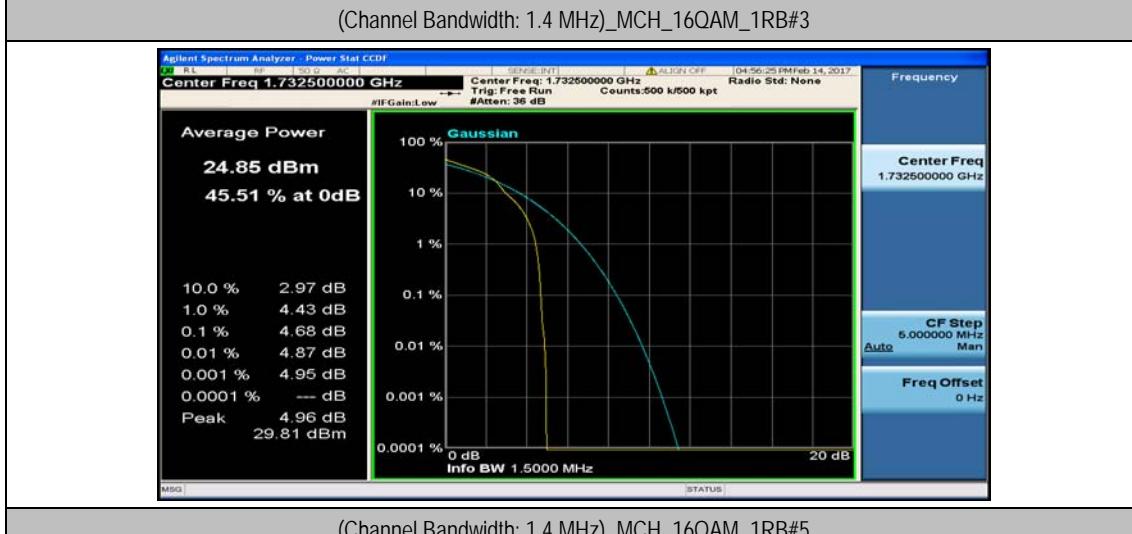
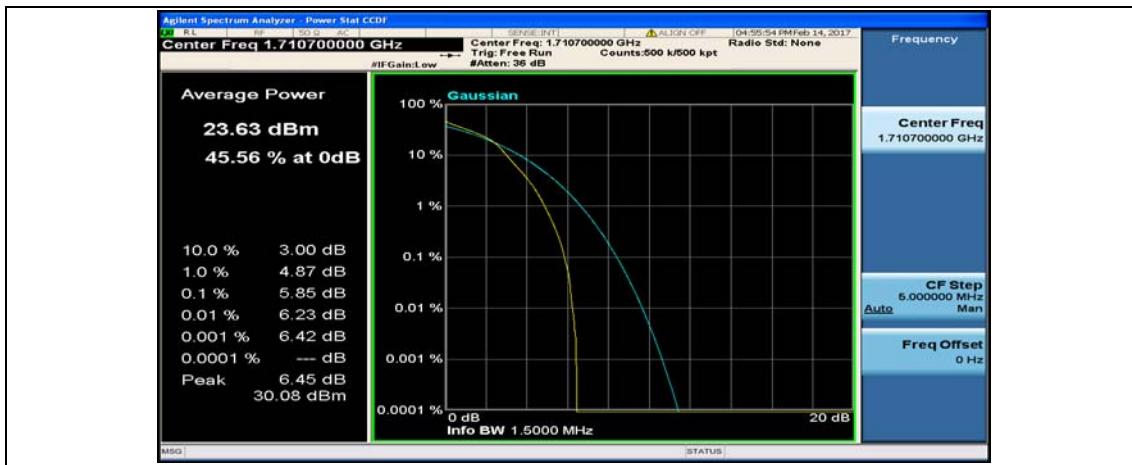


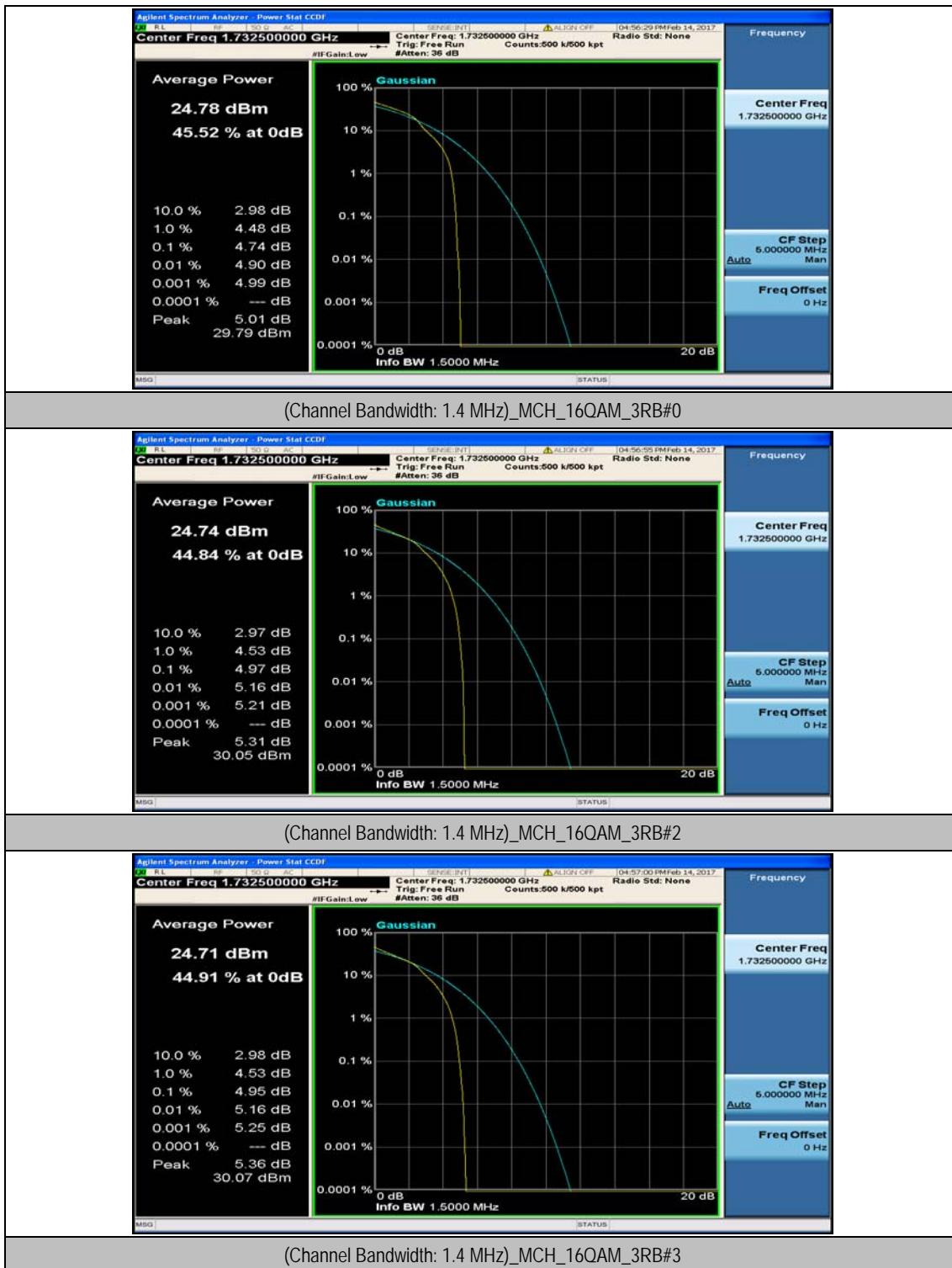


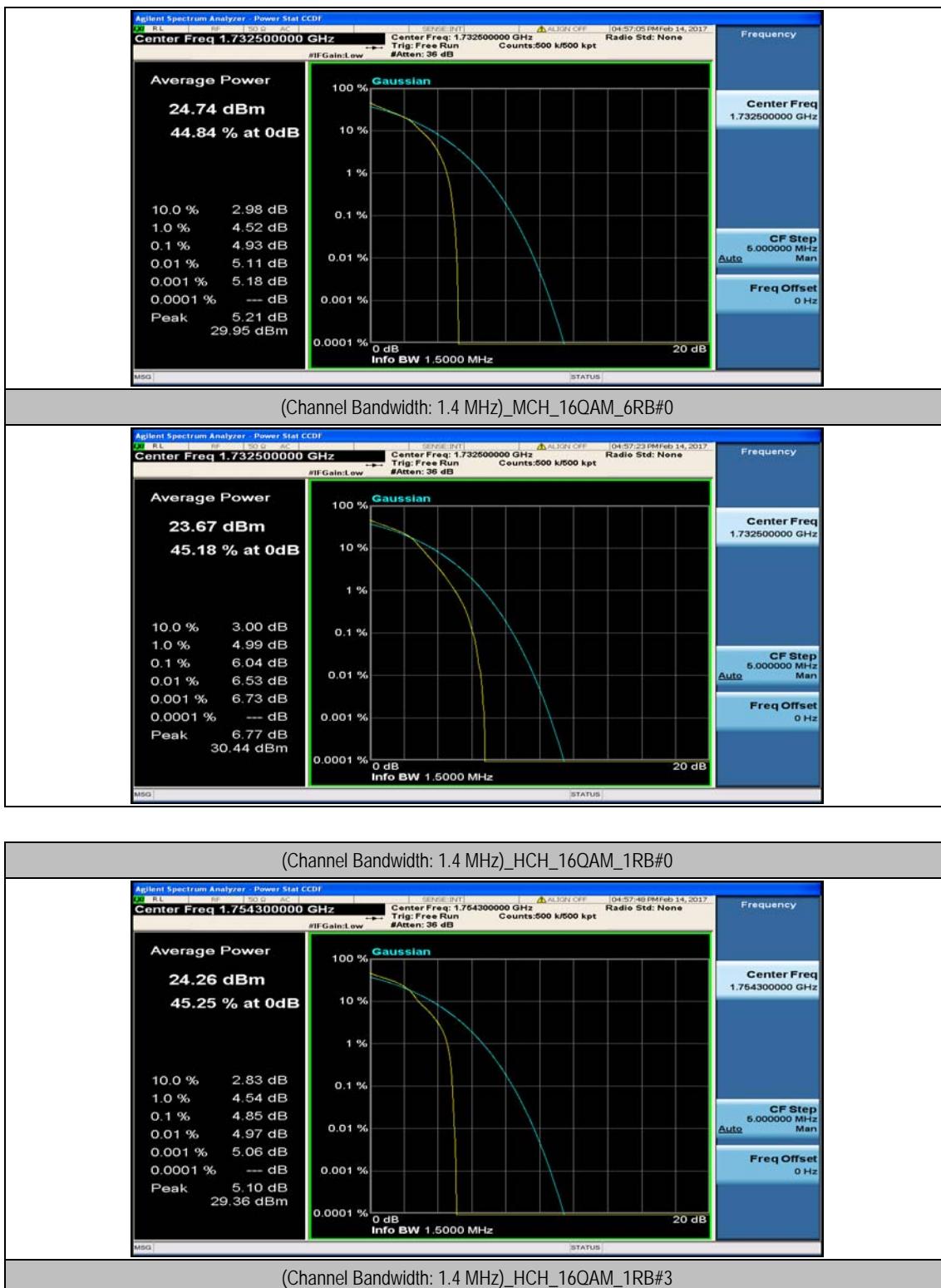


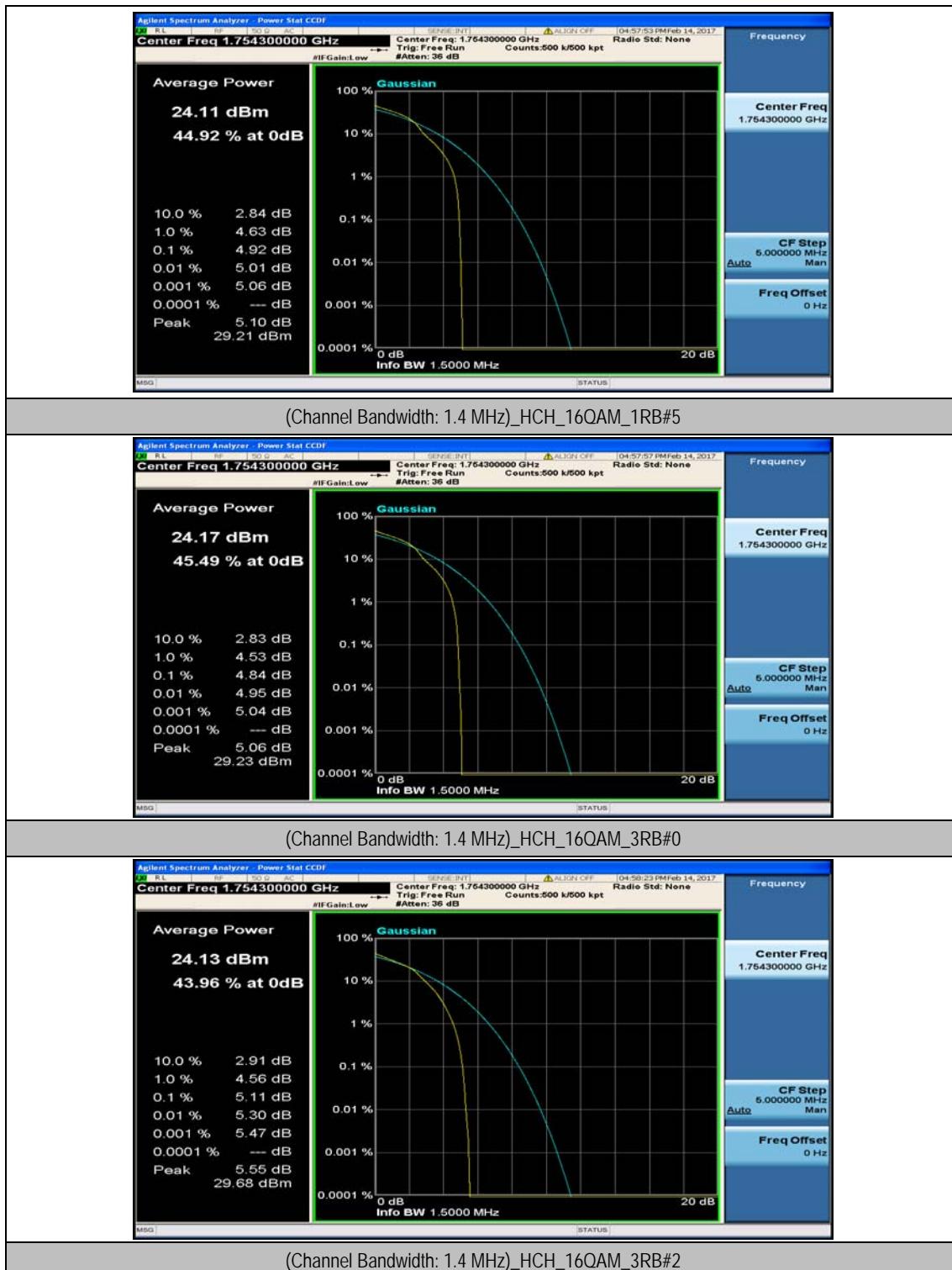


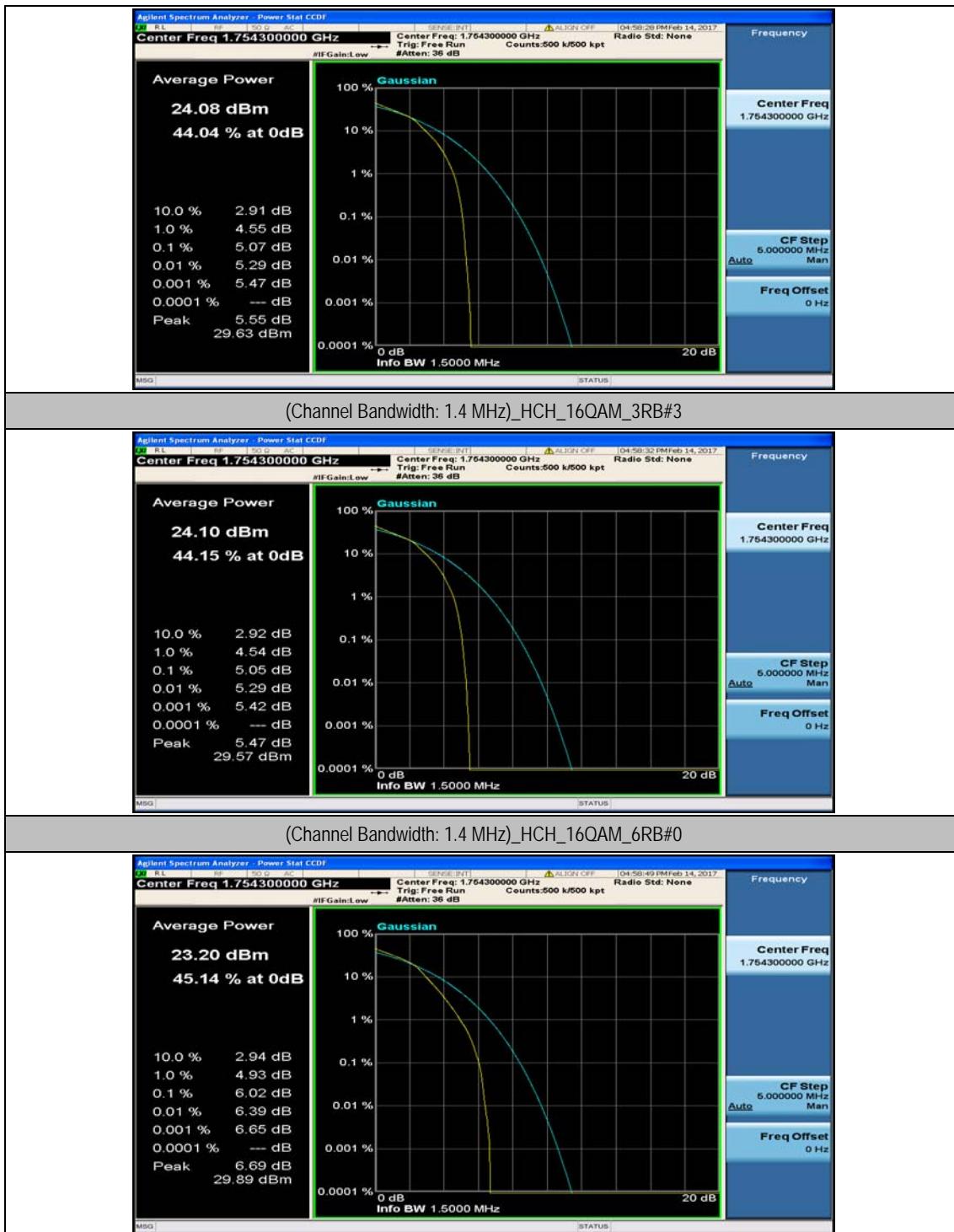




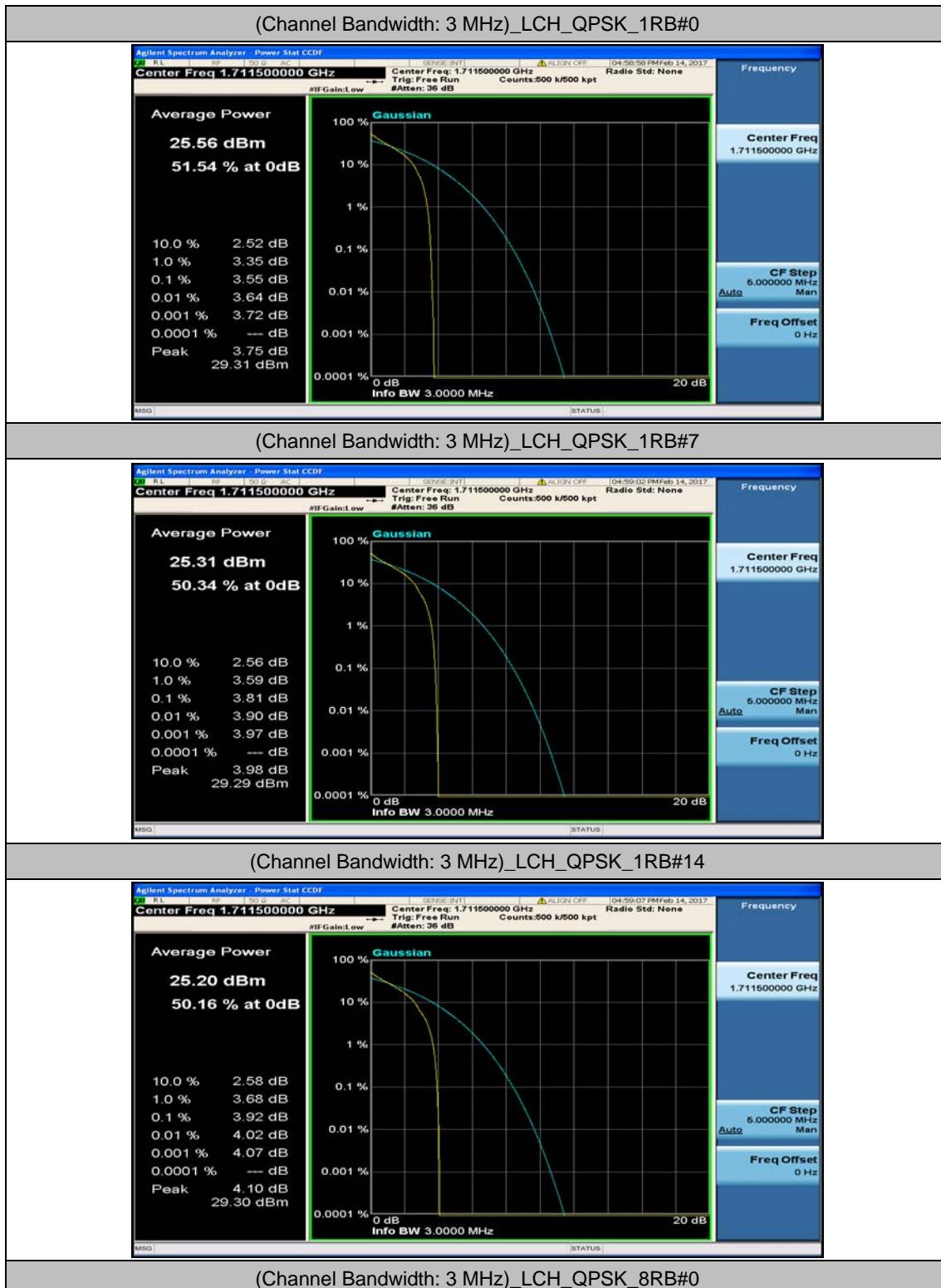


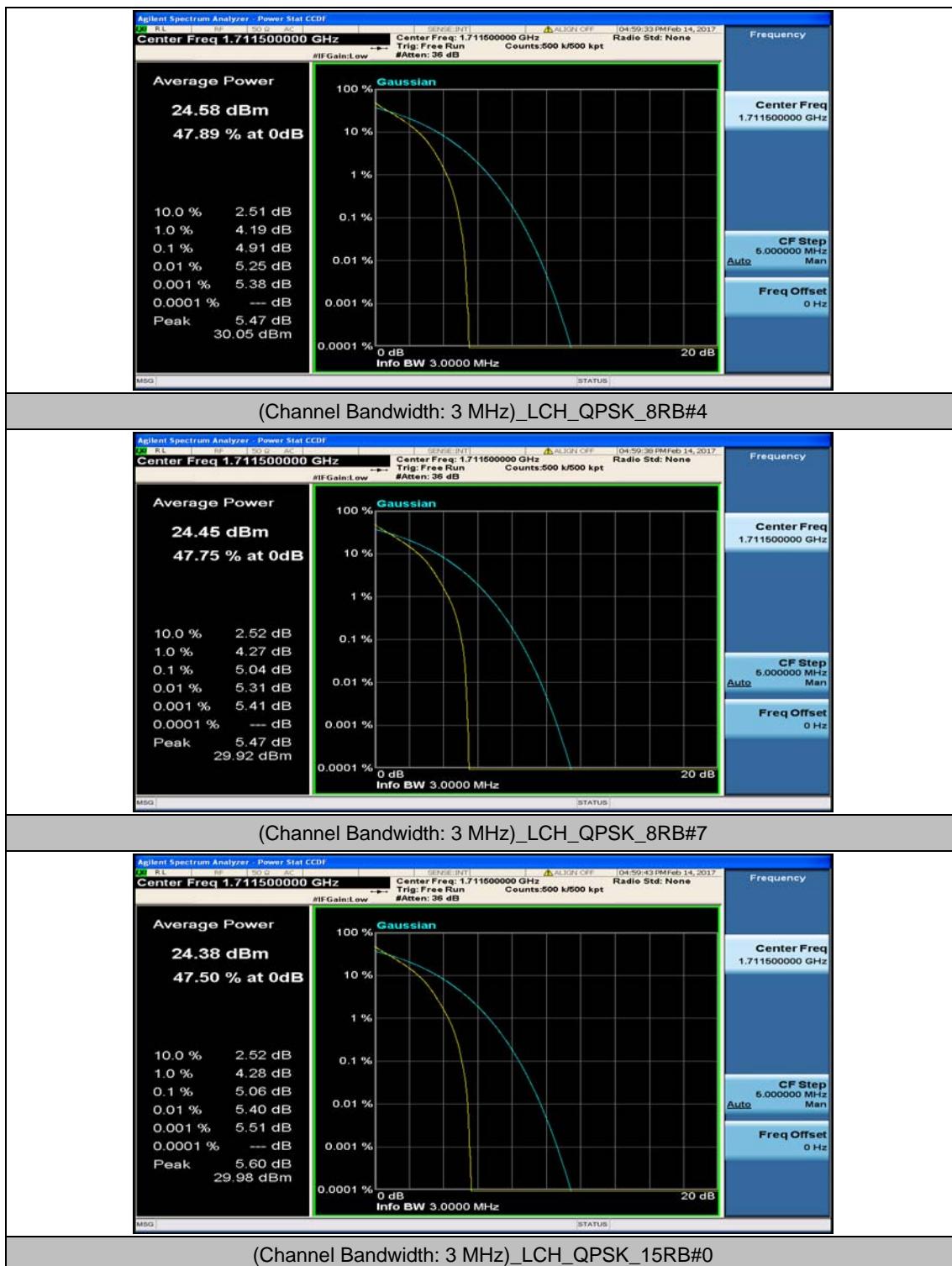


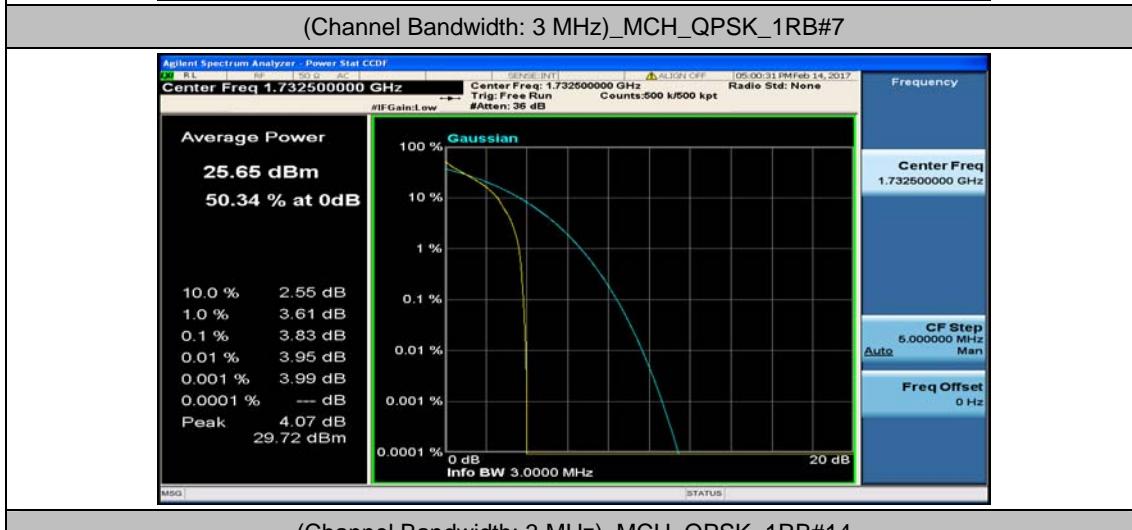
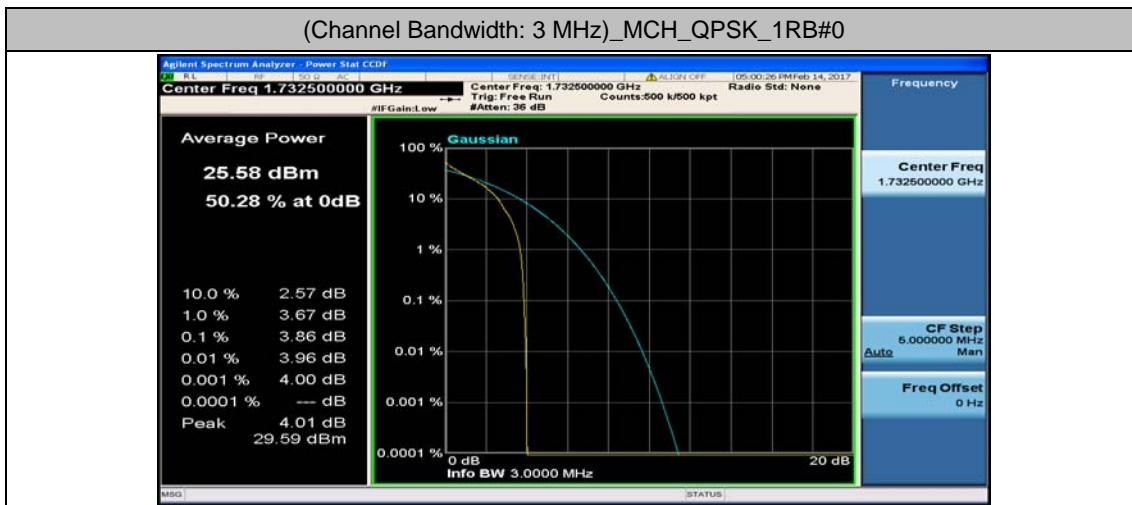
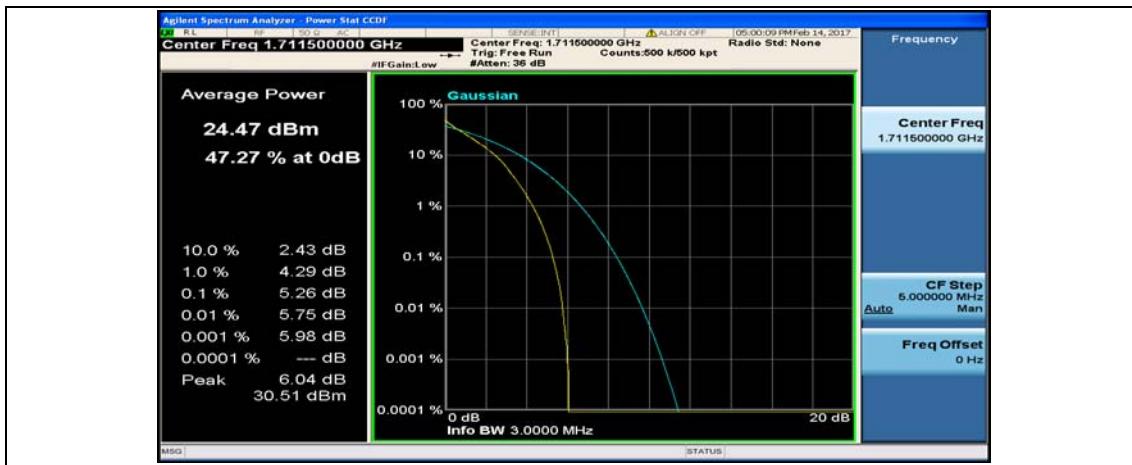


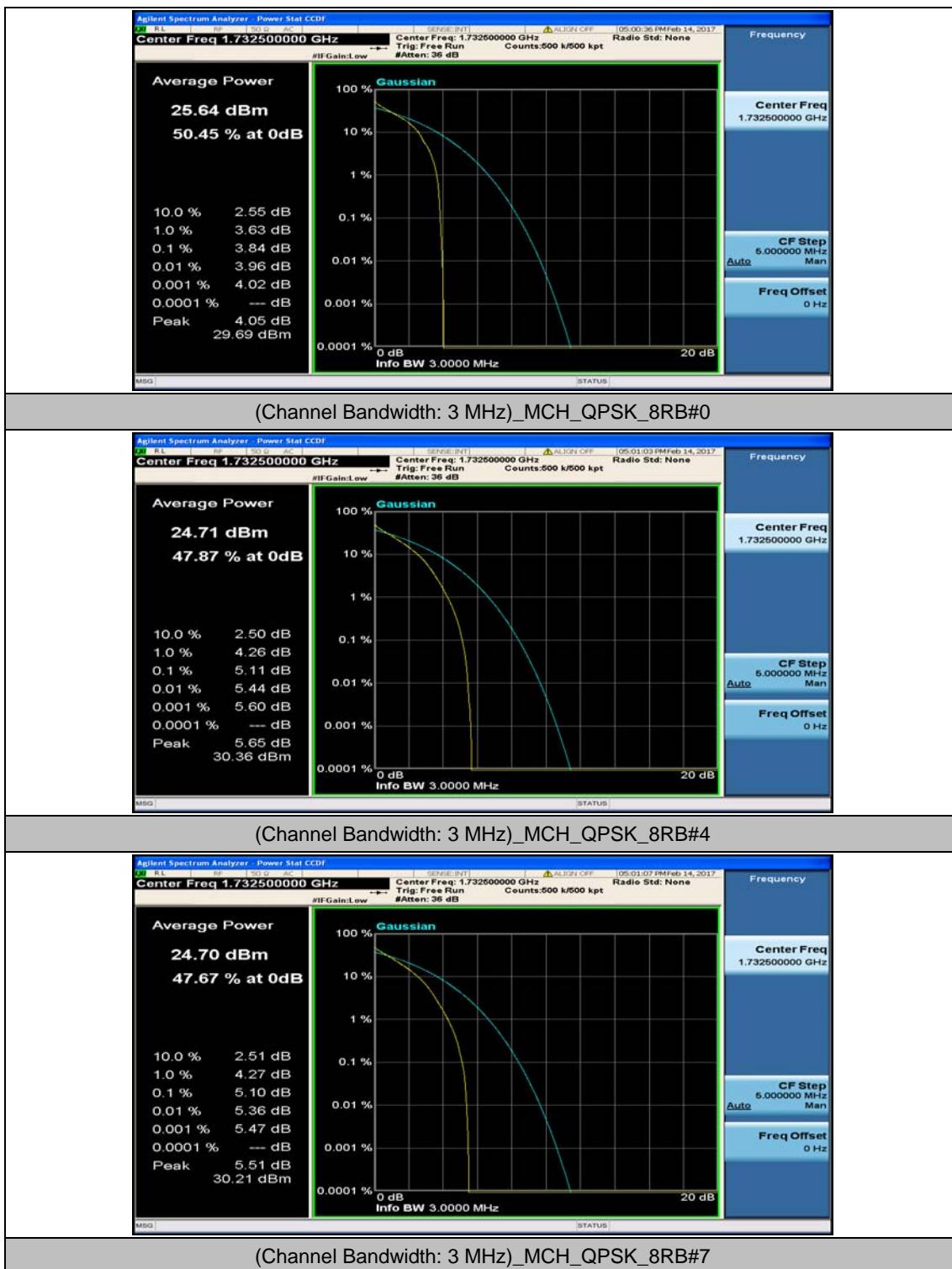


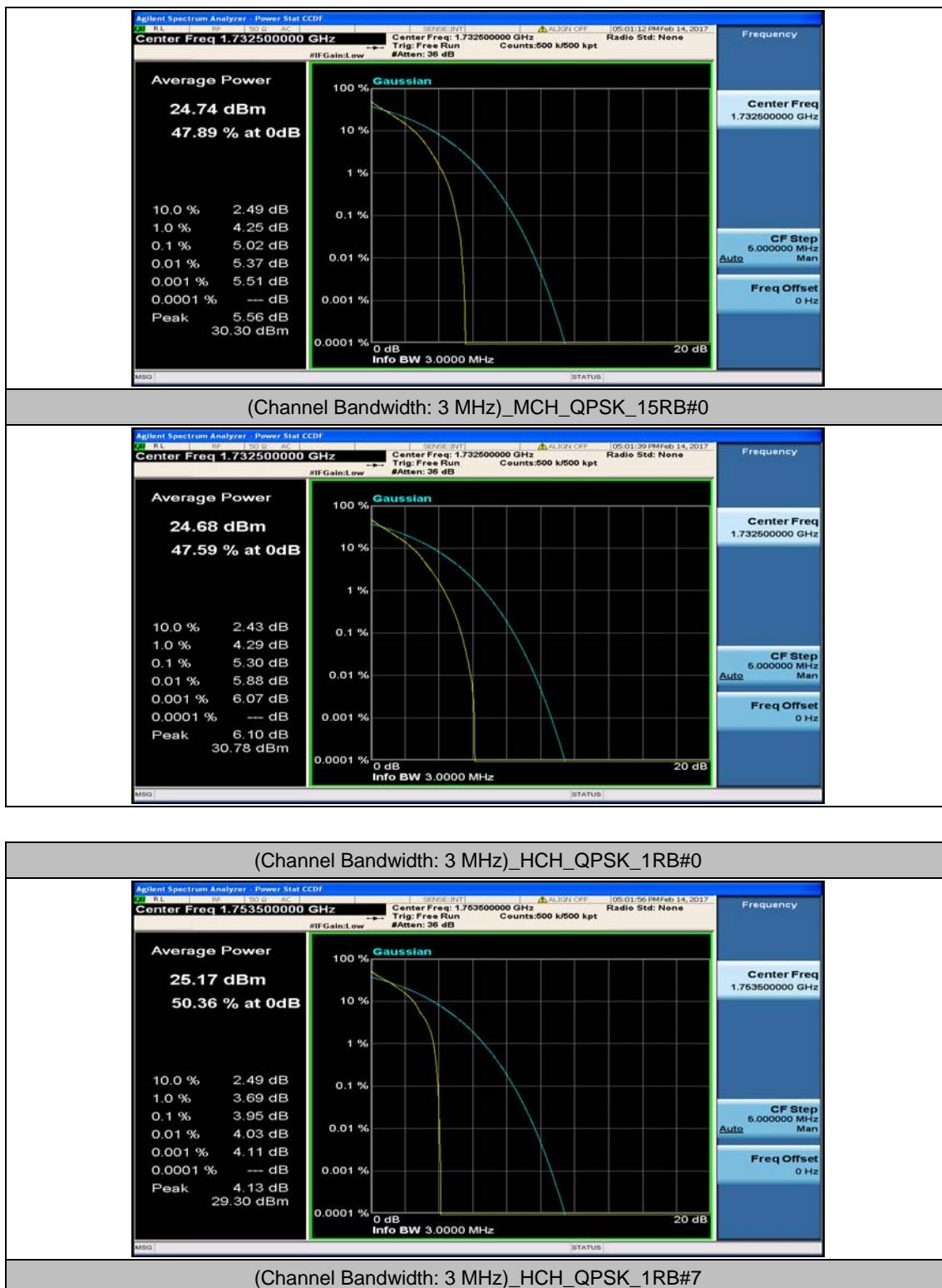
Channel Bandwidth: 3 MHz

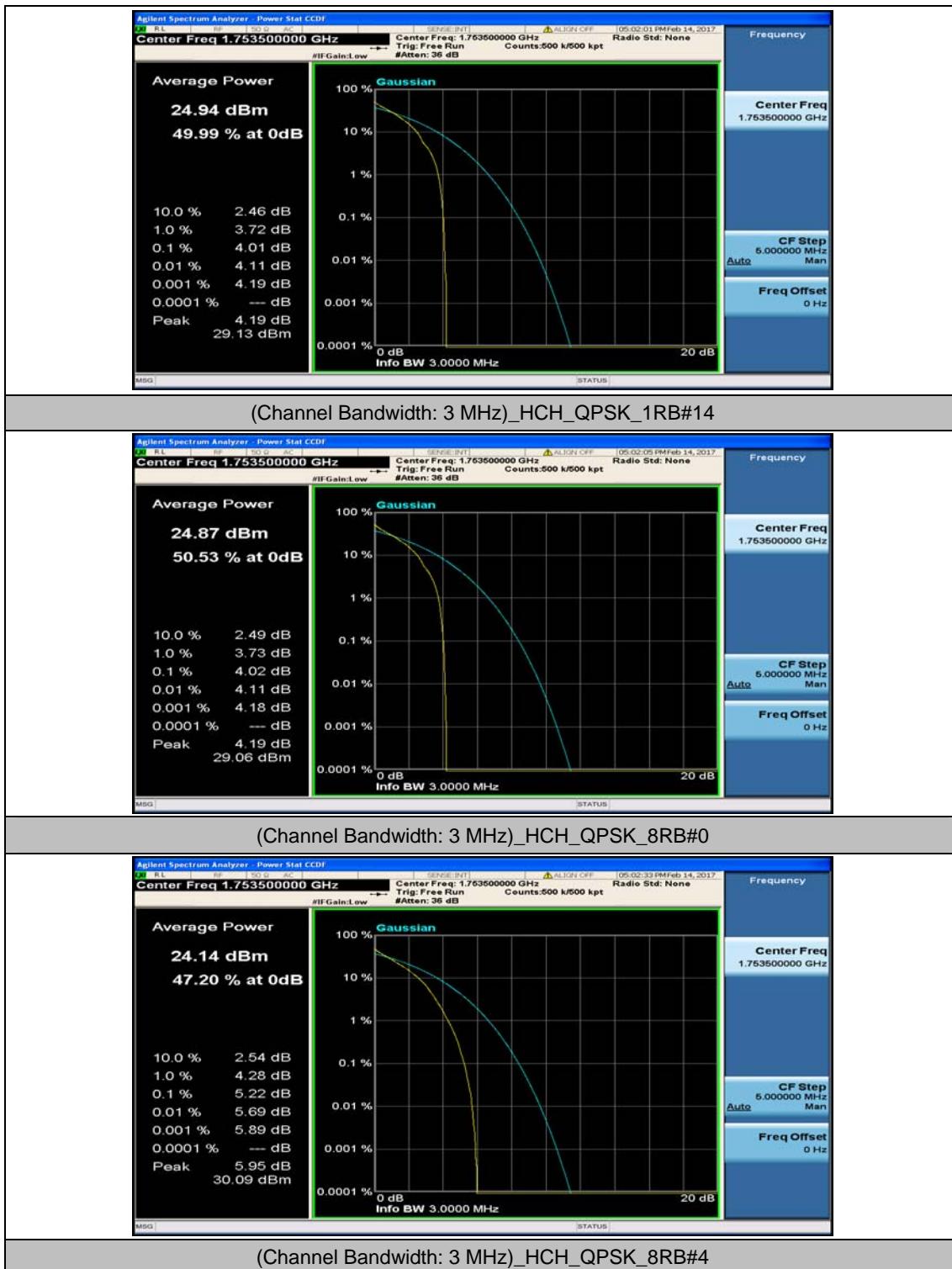


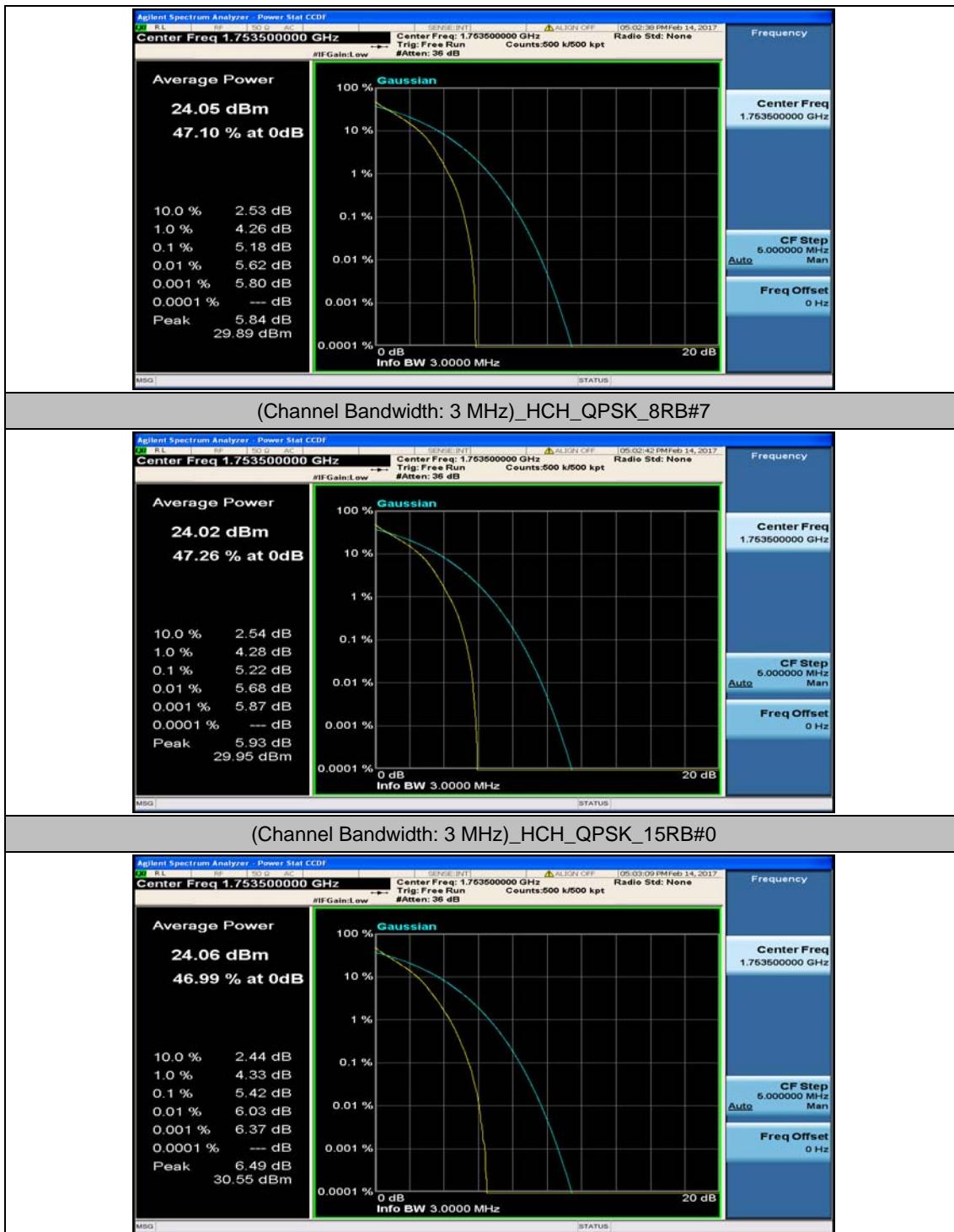


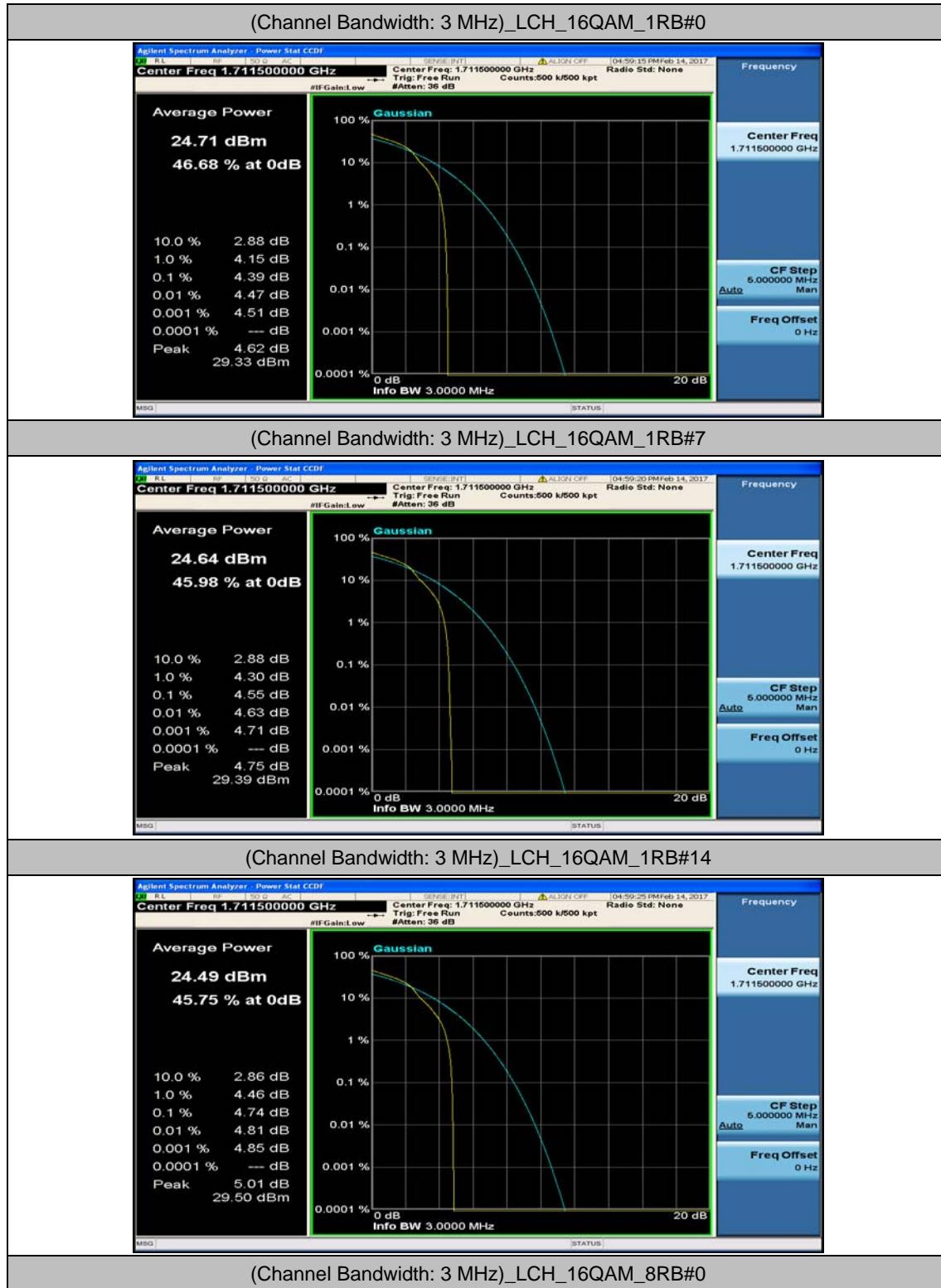


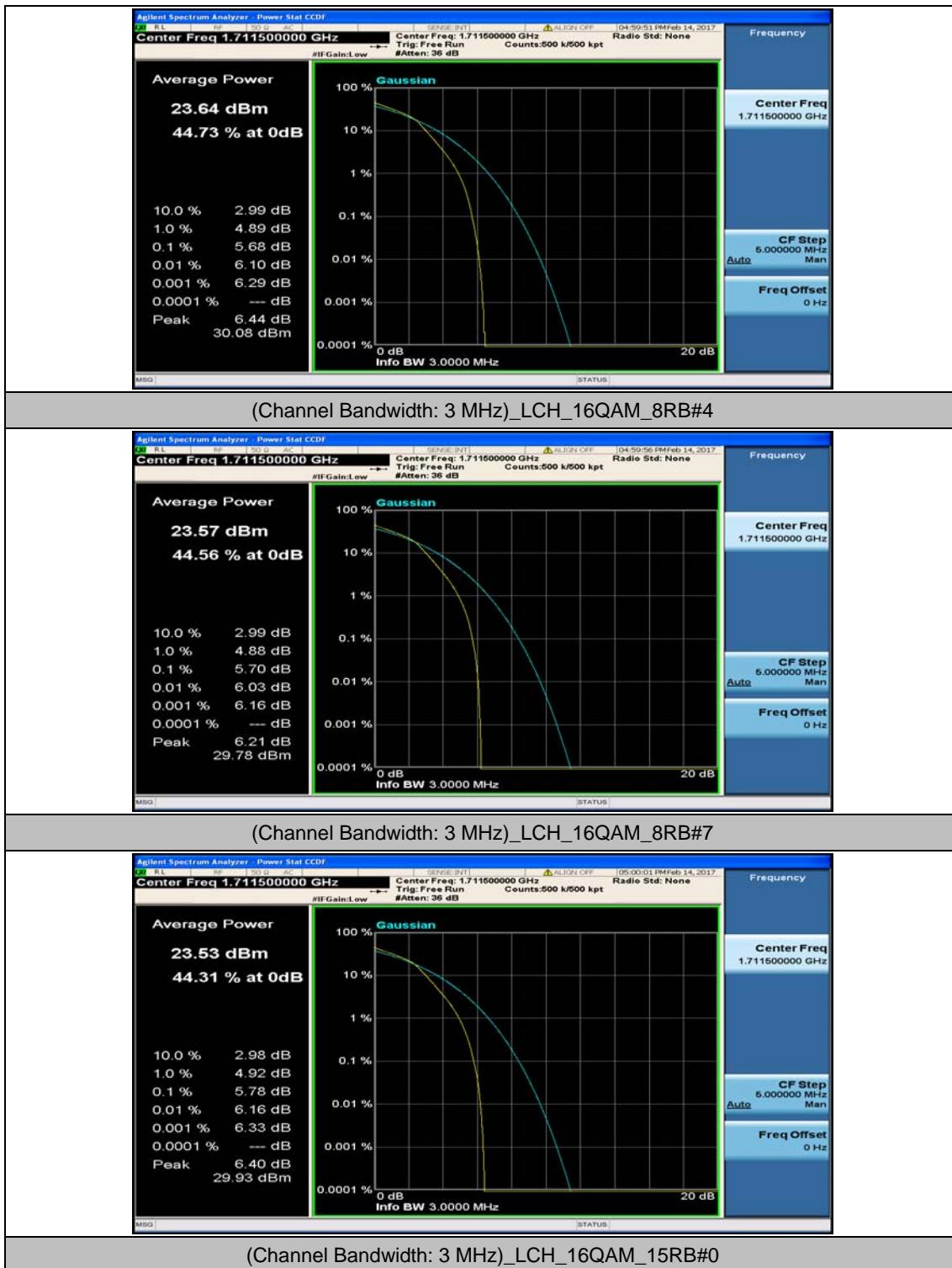


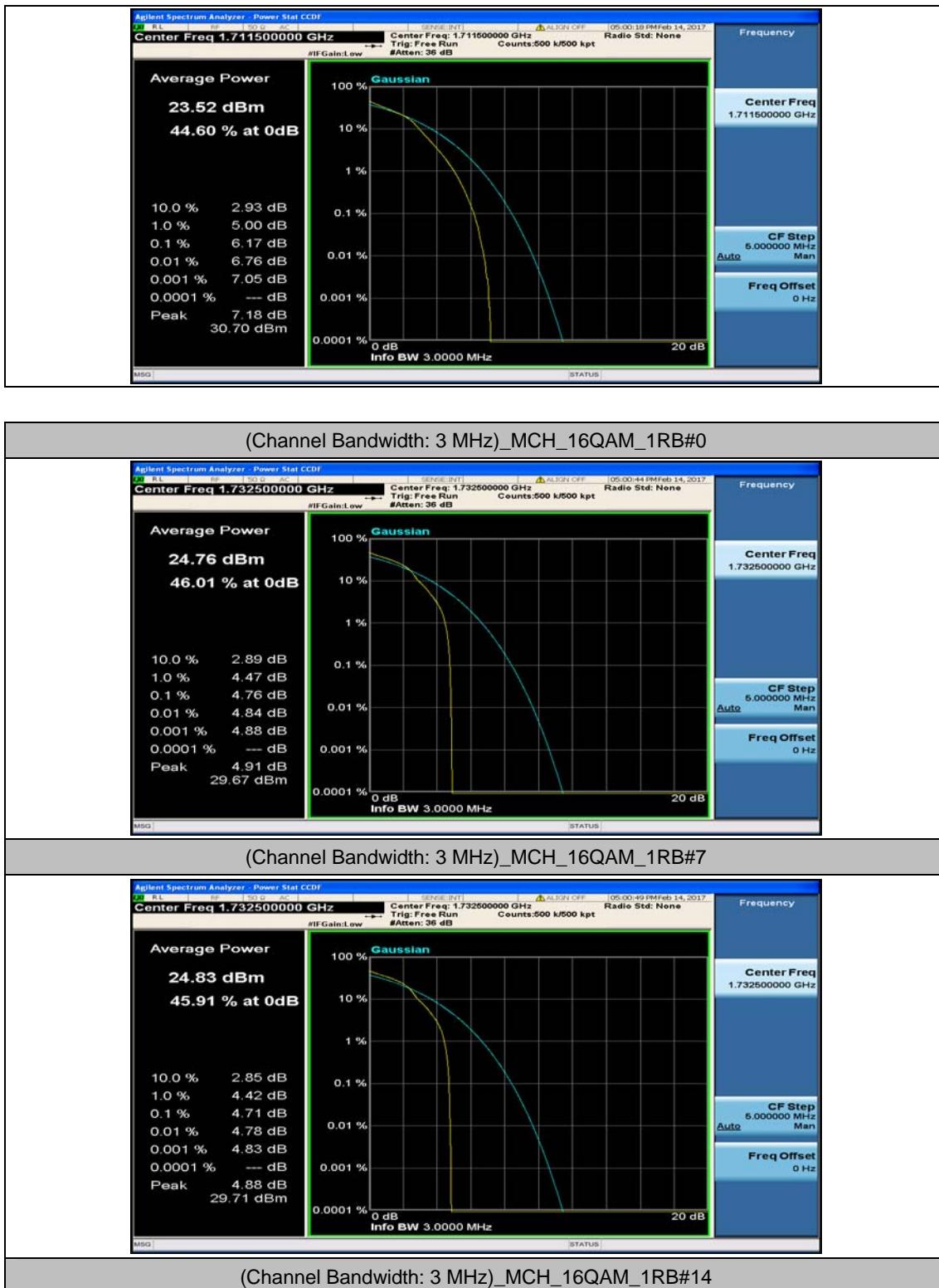


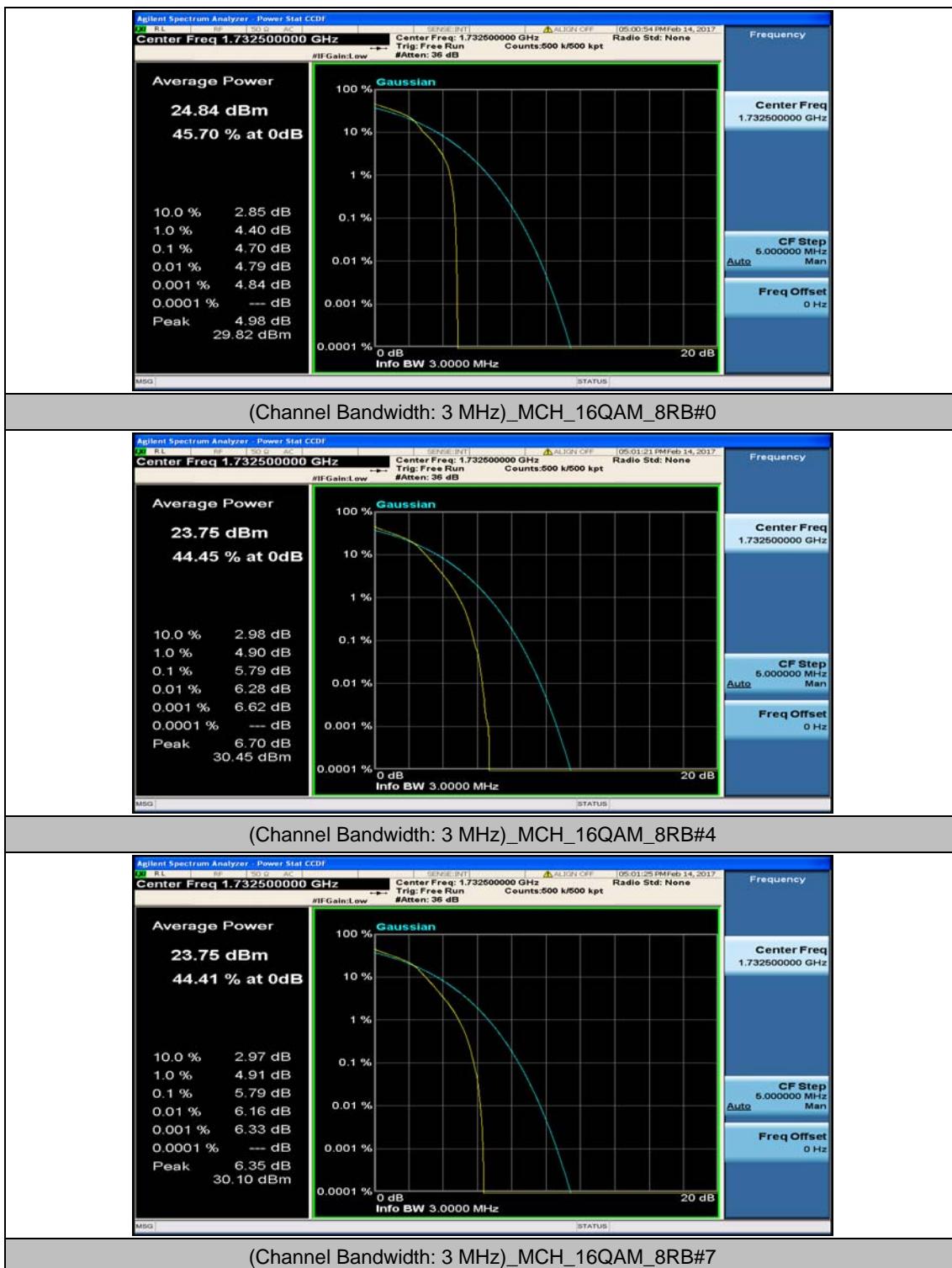


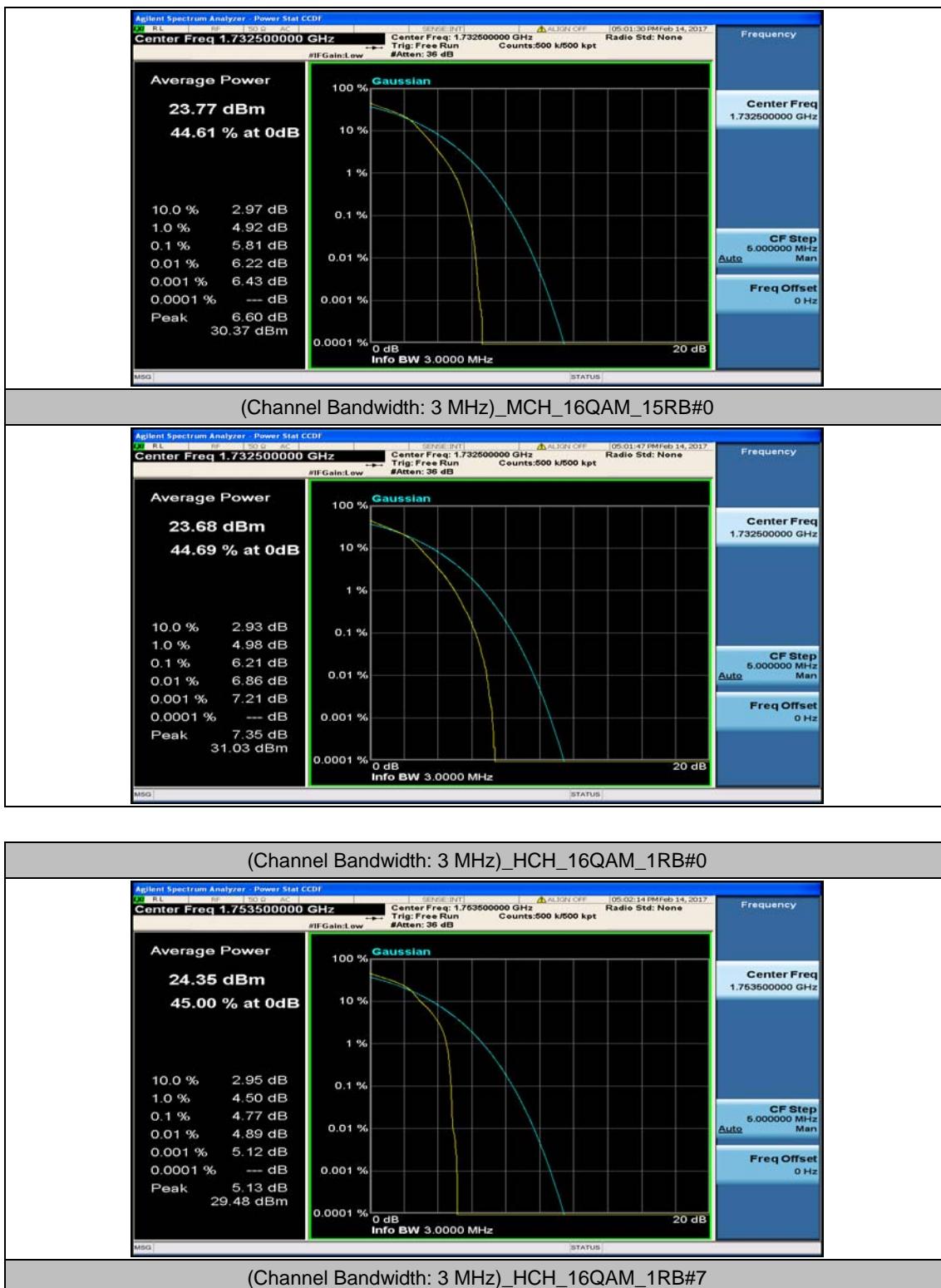


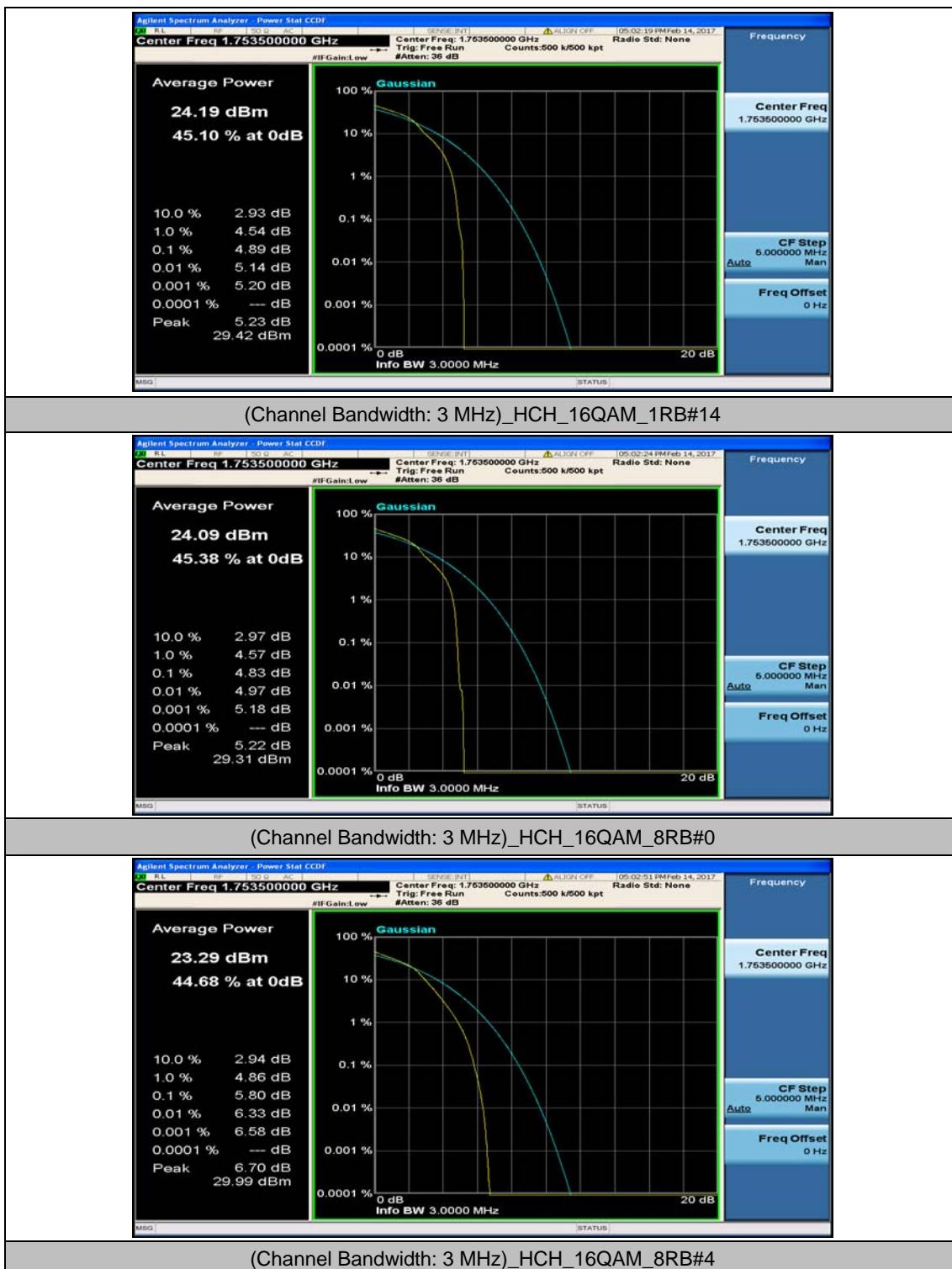


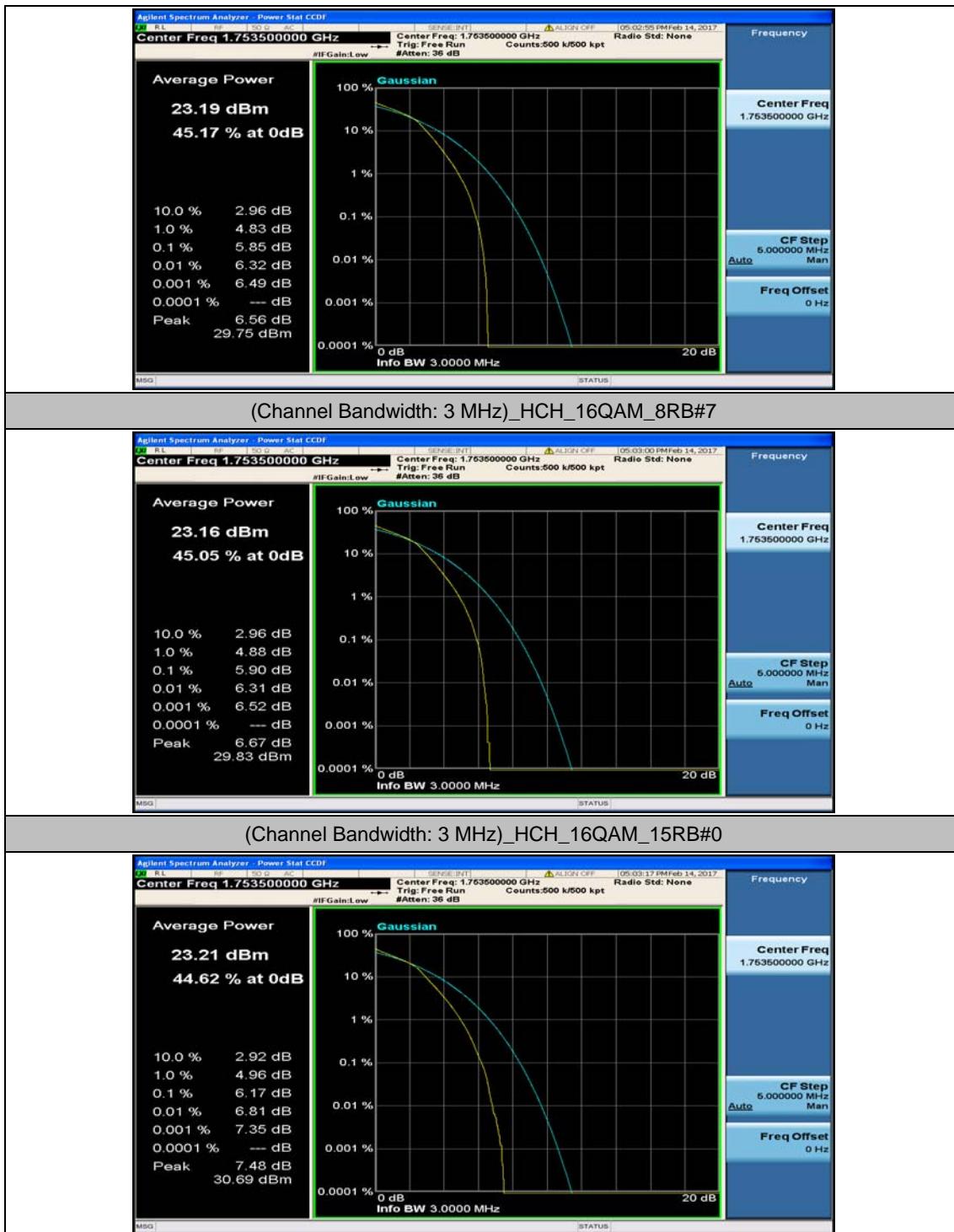




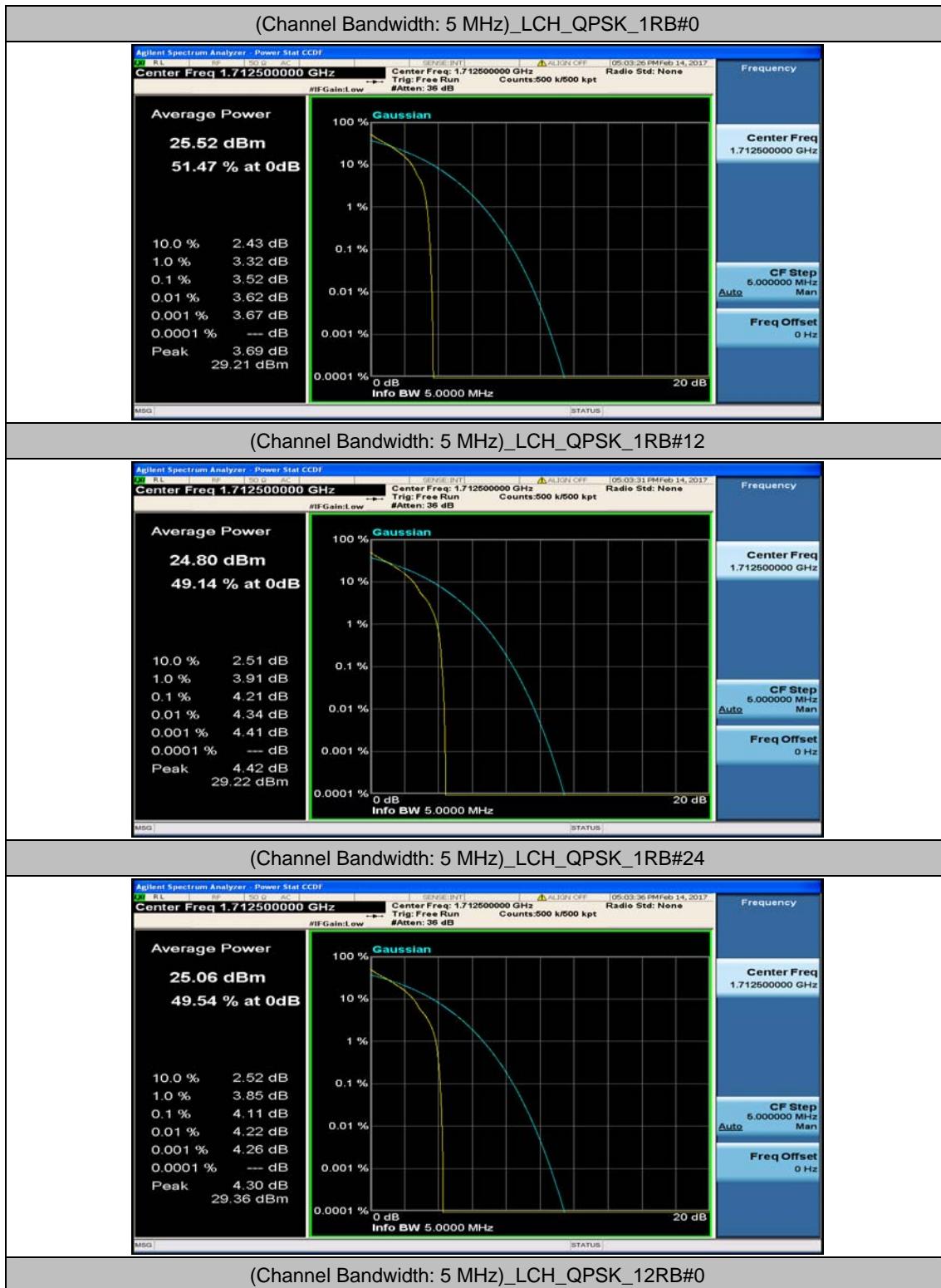


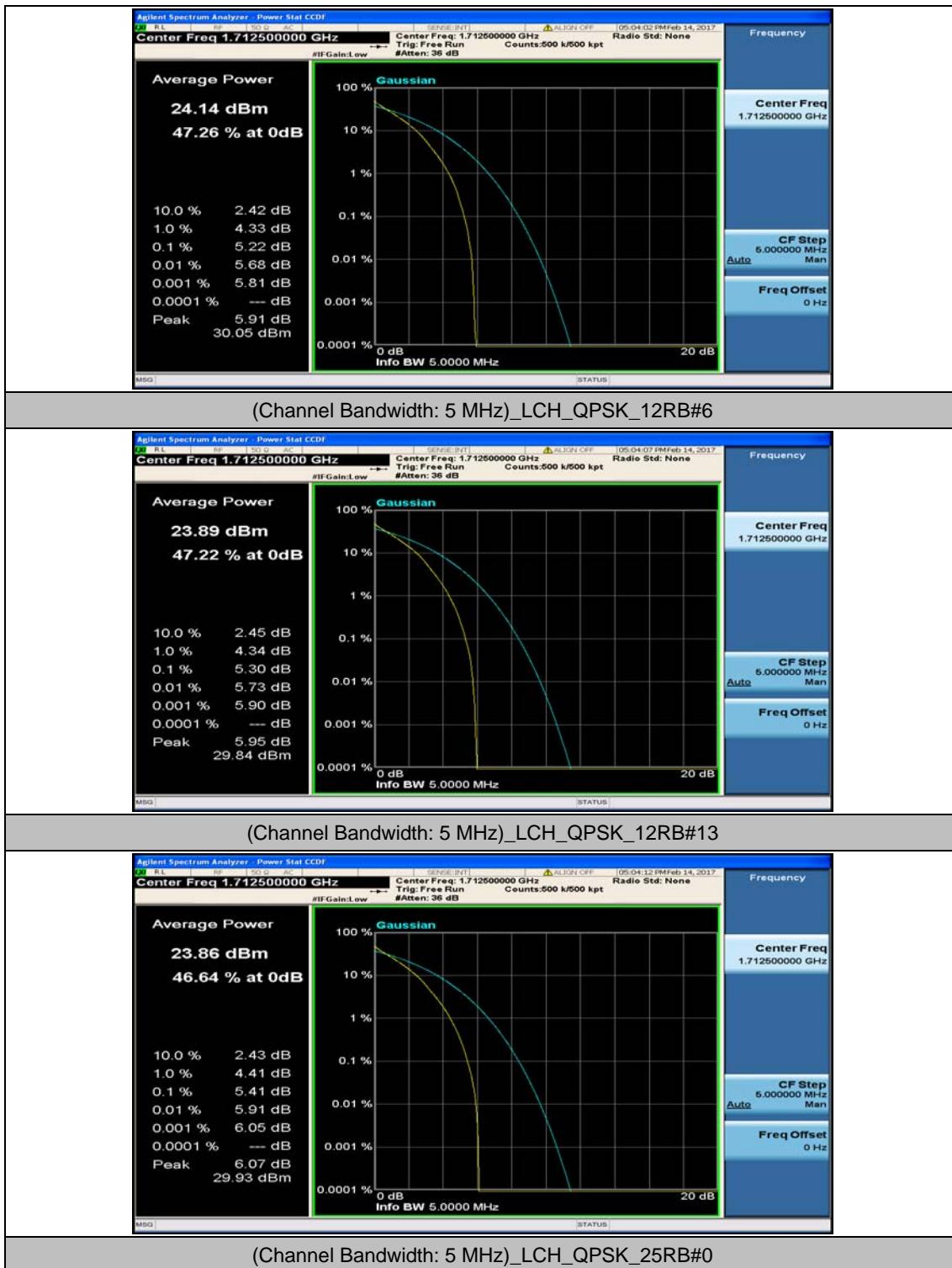


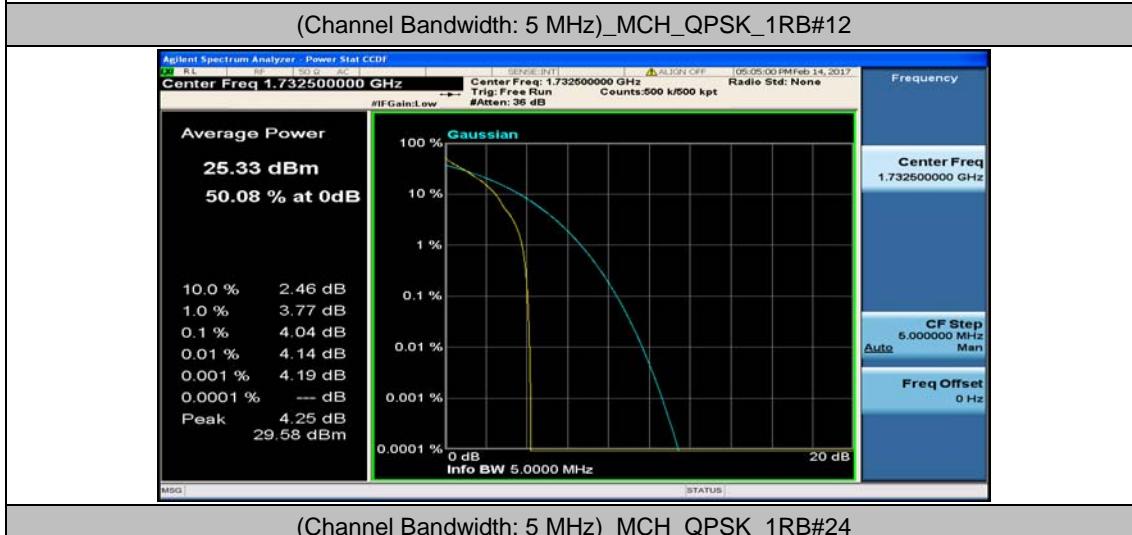
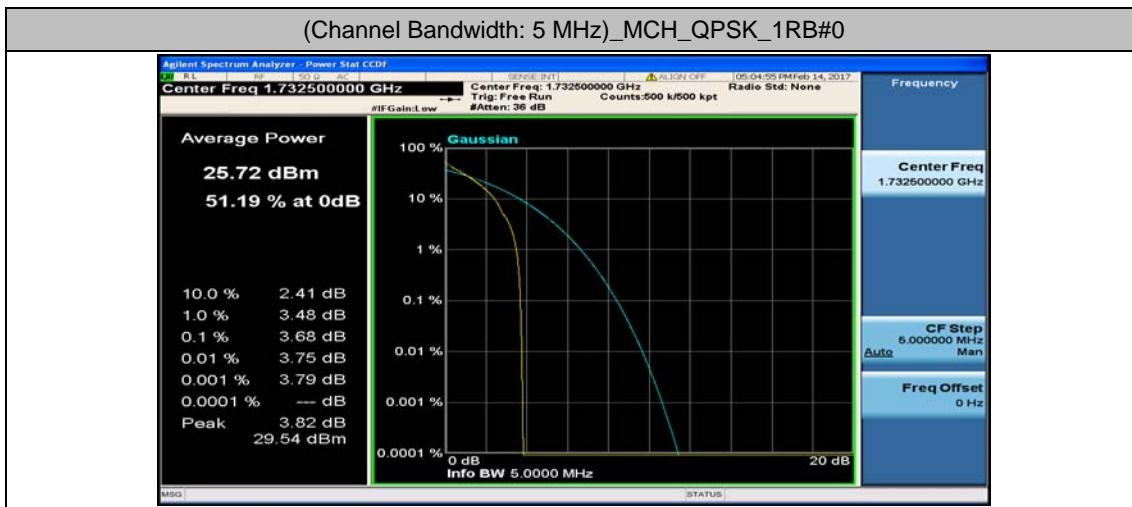
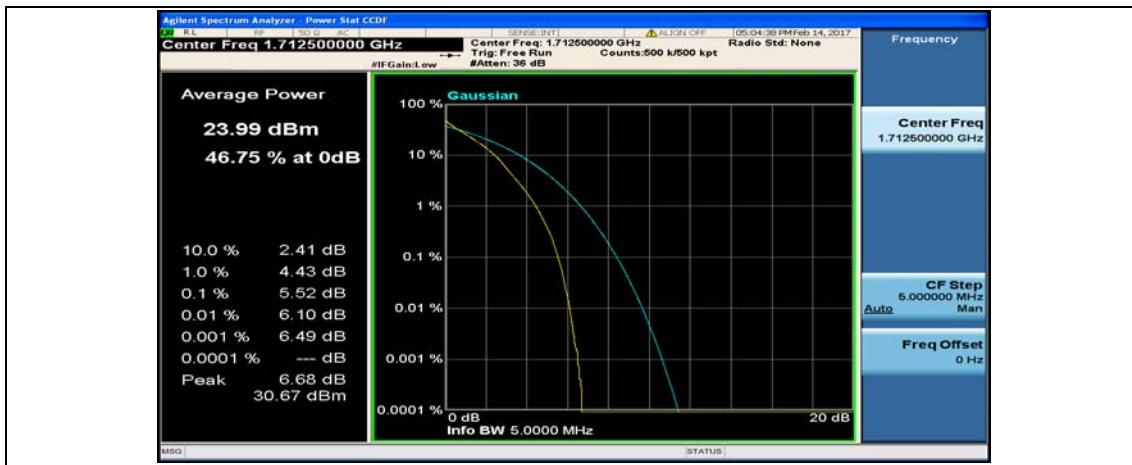




Channel Bandwidth: 5 MHz







(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

