

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	24.29	PASS
		1	3	24.13	PASS
		1	5	24.18	PASS
		3	0	24.17	PASS
		3	2	24.15	PASS
		3	3	24.13	PASS
		6	0	23.17	PASS
	MCH	1	0	23.33	PASS
		1	3	23.22	PASS
		1	5	23.30	PASS
		3	0	23.24	PASS
		3	2	23.19	PASS
		3	3	23.20	PASS
		6	0	22.22	PASS
	HCH	1	0	23.30	PASS
		1	3	23.23	PASS
		1	5	23.30	PASS
		3	0	23.25	PASS
		3	2	23.21	PASS
		3	3	23.22	PASS
		6	0	22.23	PASS
16QAM	LCH	1	0	23.39	PASS
		1	3	23.39	PASS
		1	5	23.27	PASS
		3	0	23.25	PASS
		3	2	23.20	PASS
		3	3	23.20	PASS
		6	0	22.00	PASS
	MCH	1	0	22.42	PASS
		1	3	22.43	PASS
		1	5	22.43	PASS
		3	0	22.27	PASS

		3	2	22.26	PASS
		3	3	22.25	PASS
		6	0	21.00	PASS
HCH		1	0	22.66	PASS
		1	3	22.63	PASS
		1	5	22.62	PASS
		3	0	22.24	PASS
		3	2	22.23	PASS
		3	3	22.27	PASS
		6	0	21.05	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.08	PASS
		1	7	24.06	PASS
		1	14	23.93	PASS
		8	0	23.06	PASS
		8	4	22.99	PASS
		8	7	22.94	PASS
		15	0	23.05	PASS
	MCH	1	0	23.14	PASS
		1	7	23.08	PASS
		1	14	23.08	PASS
		8	0	22.14	PASS
		8	4	22.14	PASS
		8	7	22.12	PASS
		15	0	22.17	PASS
	HCH	1	0	23.33	PASS
		1	7	23.24	PASS
		1	14	23.23	PASS
		8	0	22.28	PASS
		8	4	22.22	PASS
		8	7	22.21	PASS
		15	0	22.20	PASS
16QAM	LCH	1	0	23.33	PASS
		1	7	23.21	PASS
		1	14	23.10	PASS
		8	0	22.05	PASS
		8	4	22.00	PASS
		8	7	21.89	PASS
		15	0	21.91	PASS

		1	0	22.41	PASS
		1	7	22.40	PASS
		1	14	22.32	PASS
		8	0	21.11	PASS
		8	4	21.09	PASS
		8	7	21.09	PASS
		15	0	21.07	PASS
		1	0	22.61	PASS
		1	7	22.54	PASS
		1	14	22.50	PASS
		8	0	21.07	PASS
		8	4	20.99	PASS
		8	7	21.02	PASS
		15	0	21.07	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.25	PASS
		1	12	24.09	PASS
		1	24	23.92	PASS
		12	0	23.12	PASS
		12	6	23.00	PASS
		12	13	22.96	PASS
		25	0	23.03	PASS
	MCH	1	0	23.37	PASS
		1	12	23.17	PASS
		1	24	23.14	PASS
		12	0	22.21	PASS
		12	6	22.16	PASS
		12	13	22.15	PASS
		25	0	22.13	PASS
	HCH	1	0	23.26	PASS
		1	12	23.13	PASS
		1	24	23.10	PASS
		12	0	22.22	PASS
		12	6	22.19	PASS
		12	13	22.17	PASS
		25	0	22.22	PASS
16QAM	LCH	1	0	23.50	PASS
		1	12	23.36	PASS
		1	24	23.23	PASS

		12	0	22.14	PASS
		12	6	22.02	PASS
		12	13	21.97	PASS
		25	0	21.94	PASS
MCH		1	0	22.59	PASS
		1	12	22.57	PASS
		1	24	22.48	PASS
		12	0	21.24	PASS
		12	6	21.15	PASS
		12	13	21.15	PASS
		25	0	21.08	PASS
HCH		1	0	22.37	PASS
		1	12	22.37	PASS
		1	24	22.26	PASS
		12	0	21.14	PASS
		12	6	21.09	PASS
		12	13	21.09	PASS
		25	0	21.14	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.35	PASS
		1	24	23.90	PASS
		1	49	23.64	PASS
		25	0	23.15	PASS
		25	12	22.90	PASS
		25	25	22.77	PASS
		50	0	22.88	PASS
QPSK	MCH	1	0	23.53	PASS
		1	24	23.16	PASS
		1	49	23.20	PASS
		25	0	22.36	PASS
		25	12	22.17	PASS
		25	25	22.18	PASS
		50	0	22.25	PASS
QPSK	HCH	1	0	23.66	PASS
		1	24	23.30	PASS
		1	49	23.34	PASS
		25	0	22.40	PASS
		25	12	22.25	PASS
		25	25	22.25	PASS

		50	0	22.28	PASS
16QAM	LCH	1	0	23.59	PASS
		1	24	23.13	PASS
		1	49	22.91	PASS
		25	0	21.98	PASS
		25	12	21.71	PASS
		25	25	21.63	PASS
		50	0	21.79	PASS
	MCH	1	0	22.83	PASS
		1	24	22.43	PASS
		1	49	22.47	PASS
		25	0	21.23	PASS
		25	12	21.08	PASS
		25	25	21.08	PASS
		50	0	21.13	PASS
		1	0	22.94	PASS
	HCH	1	24	22.57	PASS
		1	49	22.67	PASS
		25	0	21.28	PASS
		25	12	21.11	PASS
		25	25	21.15	PASS
		50	0	21.22	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.30	PASS
		1	37	23.78	PASS
		1	74	23.30	PASS
		37	0	23.08	PASS
		37	18	22.74	PASS
		37	38	22.52	PASS
		75	0	22.72	PASS
	MCH	1	0	23.76	PASS
		1	37	23.09	PASS
		1	74	23.25	PASS
		37	0	22.52	PASS
		37	18	22.27	PASS
		37	38	22.22	PASS
		75	0	22.34	PASS
	HCH	1	0	23.71	PASS

		1	37	23.32	PASS
		1	74	23.31	PASS
		37	0	22.44	PASS
		37	18	22.20	PASS
		37	38	22.25	PASS
		75	0	22.36	PASS
16QAM	LCH	1	0	23.69	PASS
		1	37	23.05	PASS
		1	74	22.61	PASS
		37	0	21.94	PASS
		37	18	21.60	PASS
		37	38	21.35	PASS
		75	0	21.63	PASS
	MCH	1	0	23.14	PASS
		1	37	22.50	PASS
		1	74	22.59	PASS
		37	0	21.39	PASS
		37	18	21.08	PASS
		37	38	21.04	PASS
		75	0	21.16	PASS
	HCH	1	0	23.00	PASS
		1	37	22.58	PASS
		1	74	22.56	PASS
		37	0	21.36	PASS
		37	18	21.18	PASS
		37	38	21.21	PASS
		75	0	21.23	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.48	PASS
		1	49	23.55	PASS
		1	99	23.20	PASS
		50	0	23.07	PASS
		50	25	22.53	PASS
		50	50	22.33	PASS
		100	0	22.71	PASS
	MCH	1	0	23.90	PASS
		1	49	23.16	PASS
		1	99	23.16	PASS

	HCH	50	0	22.47	PASS
		50	25	22.11	PASS
		50	50	22.08	PASS
		100	0	22.27	PASS
		1	0	23.60	PASS
		1	49	23.13	PASS
		1	99	23.11	PASS
		50	0	22.39	PASS
	LCH	50	25	22.13	PASS
		50	50	22.18	PASS
		100	0	22.28	PASS
		1	0	23.70	PASS
		1	49	22.75	PASS
		1	99	22.38	PASS
		50	0	21.89	PASS
		50	25	21.38	PASS
16QAM	MCH	50	50	21.21	PASS
		100	0	21.52	PASS
		1	0	23.05	PASS
		1	49	22.37	PASS
		1	99	22.33	PASS
		50	0	21.31	PASS
		50	25	20.96	PASS
		50	50	20.96	PASS
	HCH	100	0	21.11	PASS
		1	0	22.90	PASS
		1	49	22.43	PASS
		1	99	22.36	PASS
		50	0	21.30	PASS
		50	25	21.09	PASS
		50	50	21.07	PASS
		100	0	21.11	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	5.18	<13	PASS
		1	3	5.21	<13	PASS
		1	5	5.17	<13	PASS
		3	0	4.67	<13	PASS
		3	2	4.65	<13	PASS
		3	3	4.73	<13	PASS
		6	0	5.45	<13	PASS
	MCH	1	0	5.21	<13	PASS
		1	3	5.2	<13	PASS
		1	5	5.0	<13	PASS
		3	0	4.91	<13	PASS
		3	2	4.93	<13	PASS
		3	3	4.94	<13	PASS
		6	0	5.57	<13	PASS
16QAM	LCH	1	0	4.84	<13	PASS
		1	3	4.9	<13	PASS
		1	5	4.88	<13	PASS
		3	0	4.53	<13	PASS
		3	2	4.5	<13	PASS
		3	3	4.54	<13	PASS
		6	0	5.33	<13	PASS
	MCH	1	0	6.05	<13	PASS
		1	3	6.02	<13	PASS
		1	5	6.05	<13	PASS
		3	0	5.79	<13	PASS
		3	2	5.85	<13	PASS
		3	3	5.78	<13	PASS
		6	0	6.37	<13	PASS

		3	3	5.91	<13	PASS
		6	0	6.4	<13	PASS
HCH		1	0	5.9	<13	PASS
		1	3	5.97	<13	PASS
		1	5	5.85	<13	PASS
		3	0	5.53	<13	PASS
		3	2	5.51	<13	PASS
		3	3	5.56	<13	PASS
		6	0	6.27	<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	4.87	<13	PASS
		1	7	5.12	<13	PASS
		1	14	4.93	<13	PASS
		8	0	5.38	<13	PASS
		8	4	5.41	<13	PASS
		8	7	5.37	<13	PASS
		15	0	5.45	<13	PASS
	MCH	1	0	5.03	<13	PASS
		1	7	5.26	<13	PASS
		1	14	5.03	<13	PASS
		8	0	5.44	<13	PASS
		8	4	5.44	<13	PASS
		8	7	5.5	<13	PASS
		15	0	5.53	<13	PASS
	HCH	1	0	4.78	<13	PASS
		1	7	4.84	<13	PASS
		1	14	4.71	<13	PASS
		8	0	5.18	<13	PASS
		8	4	5.21	<13	PASS
		8	7	5.24	<13	PASS
		15	0	5.41	<13	PASS
16QAM	LCH	1	0	5.55	<13	PASS
		1	7	5.96	<13	PASS
		1	14	5.53	<13	PASS
		8	0	6.16	<13	PASS
		8	4	6.24	<13	PASS
		8	7	6.2	<13	PASS

		15	0	6.45	<13	PASS
MCH	1	0		5.5	<13	PASS
	1	7		6.03	<13	PASS
	1	14		5.51	<13	PASS
	8	0		6.23	<13	PASS
	8	4		6.3	<13	PASS
	8	7		6.27	<13	PASS
	15	0		6.54	<13	PASS
HCH	1	0		5.65	<13	PASS
	1	7		5.98	<13	PASS
	1	14		5.58	<13	PASS
	8	0		6	<13	PASS
	8	4		6.22	<13	PASS
	8	7		6.14	<13	PASS
	15	0		6.31	<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	5.09	<13	PASS
		1	12	4.96	<13	PASS
		1	24	5.24	<13	PASS
		12	0	5.25	<13	PASS
		12	6	5.3	<13	PASS
		12	13	5.36	<13	PASS
		25	0	5.44	<13	PASS
QPSK	MCH	1	0	5.25	<13	PASS
		1	12	5.16	<13	PASS
		1	24	5.15	<13	PASS
		12	0	5.37	<13	PASS
		12	6	5.37	<13	PASS
		12	13	5.38	<13	PASS
		25	0	5.44	<13	PASS
QPSK	HCH	1	0	5.11	<13	PASS
		1	12	5.11	<13	PASS
		1	24	5.05	<13	PASS
		12	0	5.28	<13	PASS
		12	6	5.25	<13	PASS
		12	13	5.28	<13	PASS
		25	0	5.38	<13	PASS

16QAM	LCH	1	0	6.01	<13	PASS
		1	12	6.18	<13	PASS
		1	24	6.16	<13	PASS
		12	0	6.14	<13	PASS
		12	6	6.12	<13	PASS
		12	13	6.22	<13	PASS
		25	0	6.32	<13	PASS
	MCH	1	0	6.22	<13	PASS
		1	12	6.24	<13	PASS
		1	24	6.13	<13	PASS
		12	0	6.25	<13	PASS
		12	6	6.24	<13	PASS
		12	13	6.24	<13	PASS
		25	0	6.4	<13	PASS
	HCH	1	0	5.67	<13	PASS
		1	12	5.84	<13	PASS
		1	24	5.71	<13	PASS
		12	0	6.16	<13	PASS
		12	6	6.16	<13	PASS
		12	13	6.17	<13	PASS
		25	0	6.26	<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	4.96	<13	PASS
		1	24	5.2	<13	PASS
		1	49	5.18	<13	PASS
		25	0	5.38	<13	PASS
		25	12	5.44	<13	PASS
		25	25	5.49	<13	PASS
		50	0	5.56	<13	PASS
	MCH	1	0	5.06	<13	PASS
		1	24	5.1	<13	PASS
		1	49	5.14	<13	PASS
		25	0	5.47	<13	PASS
		25	12	5.5	<13	PASS
		25	25	5.48	<13	PASS
		50	0	5.57	<13	PASS
	HCH	1	0	4.95	<13	PASS

		1	24	5.06	<13	PASS
		1	49	4.87	<13	PASS
		25	0	5.26	<13	PASS
		25	12	5.31	<13	PASS
		25	25	5.25	<13	PASS
		50	0	5.51	<13	PASS
16QAM	LCH	1	0	5.78	<13	PASS
		1	24	5.93	<13	PASS
		1	49	5.92	<13	PASS
		25	0	6.27	<13	PASS
		25	12	6.26	<13	PASS
		25	25	6.35	<13	PASS
		50	0	6.29	<13	PASS
	MCH	1	0	5.88	<13	PASS
		1	24	6.03	<13	PASS
		1	49	5.82	<13	PASS
		25	0	6.29	<13	PASS
		25	12	6.31	<13	PASS
		25	25	6.41	<13	PASS
		50	0	6.35	<13	PASS
	HCH	1	0	5.8	<13	PASS
		1	24	6.03	<13	PASS
		1	49	5.78	<13	PASS
		25	0	6.32	<13	PASS
		25	12	6.26	<13	PASS
		25	25	6.27	<13	PASS
		50	0	6.3	<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	9.66	<13	PASS
		1	37	5.15	<13	PASS
		1	74	11.86	<13	PASS
		37	0	4.72	<13	PASS
		37	18	5.51	<13	PASS
		37	38	4.8	<13	PASS
		75	0	4.93	<13	PASS
	MCH	1	0	9.95	<13	PASS
		1	37	5.17	<13	PASS

16QAM		1	74	11.61	<13	PASS
		37	0	4.72	<13	PASS
		37	18	5.56	<13	PASS
		37	38	4.77	<13	PASS
		75	0	4.97	<13	PASS
	HCH	1	0	9.36	<13	PASS
		1	37	5.06	<13	PASS
		1	74	12.11	<13	PASS
		37	0	4.73	<13	PASS
		37	18	5.42	<13	PASS
		37	38	4.69	<13	PASS
		75	0	4.94	<13	PASS
	LCH	1	0	10.25	<13	PASS
		1	37	5.98	<13	PASS
		1	74	12.47	<13	PASS
		37	0	5.96	<13	PASS
		37	18	6.31	<13	PASS
		37	38	6.09	<13	PASS
		75	0	6.25	<13	PASS
	MCH	1	0	9.41	<13	PASS
		1	37	5.79	<13	PASS
		1	74	12.49	<13	PASS
		37	0	6.02	<13	PASS
		37	18	6.29	<13	PASS
		37	38	6.06	<13	PASS
		75	0	6.22	<13	PASS
	HCH	1	0	12.88	<13	PASS
		1	37	6.16	<13	PASS
		1	74	12.4	<13	PASS
		37	0	5.94	<13	PASS
		37	18	6.23	<13	PASS
		37	38	6.04	<13	PASS
		75	0	6.28	<13	PASS

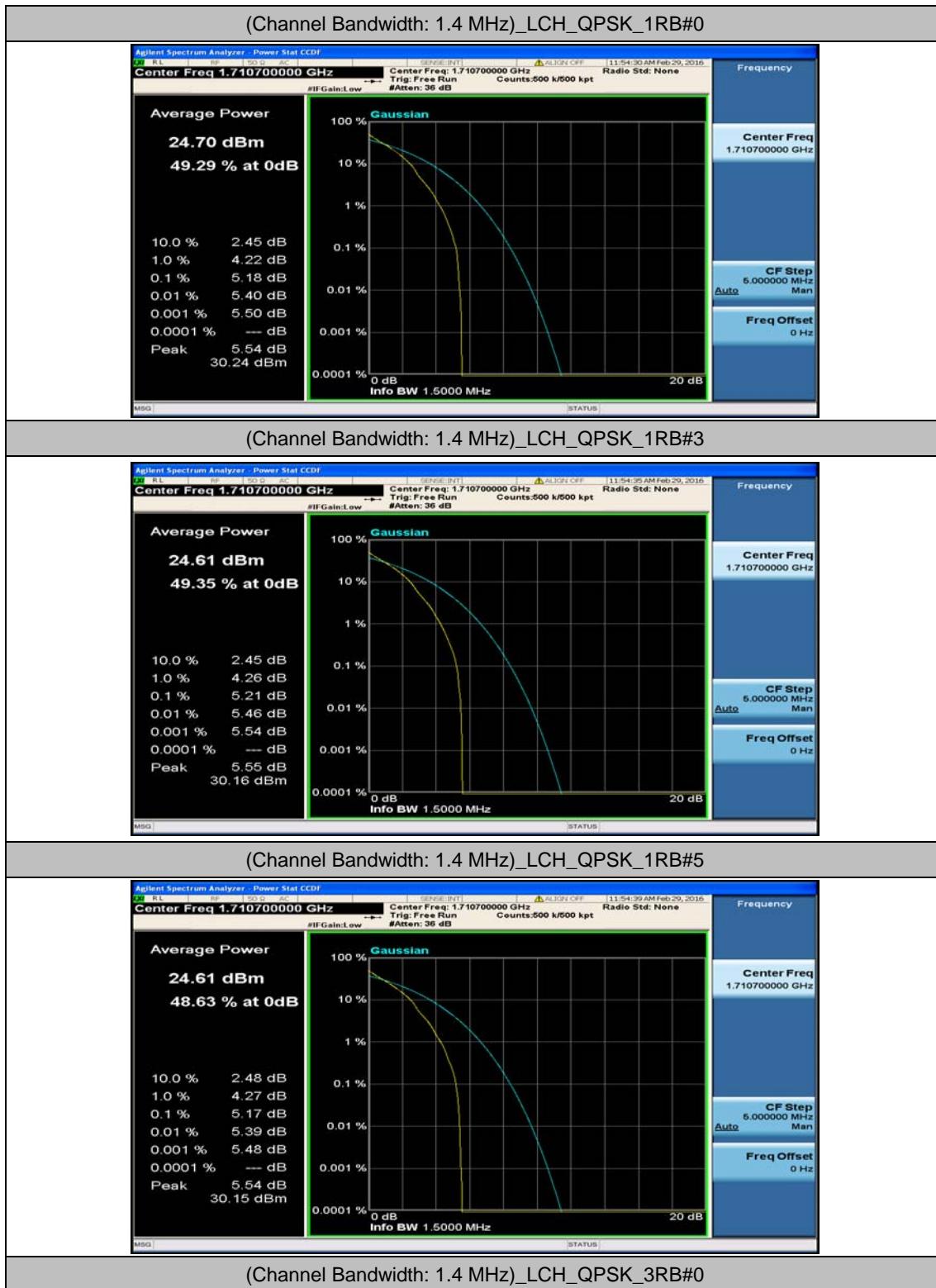
Channel Bandwidth: 20 MHz

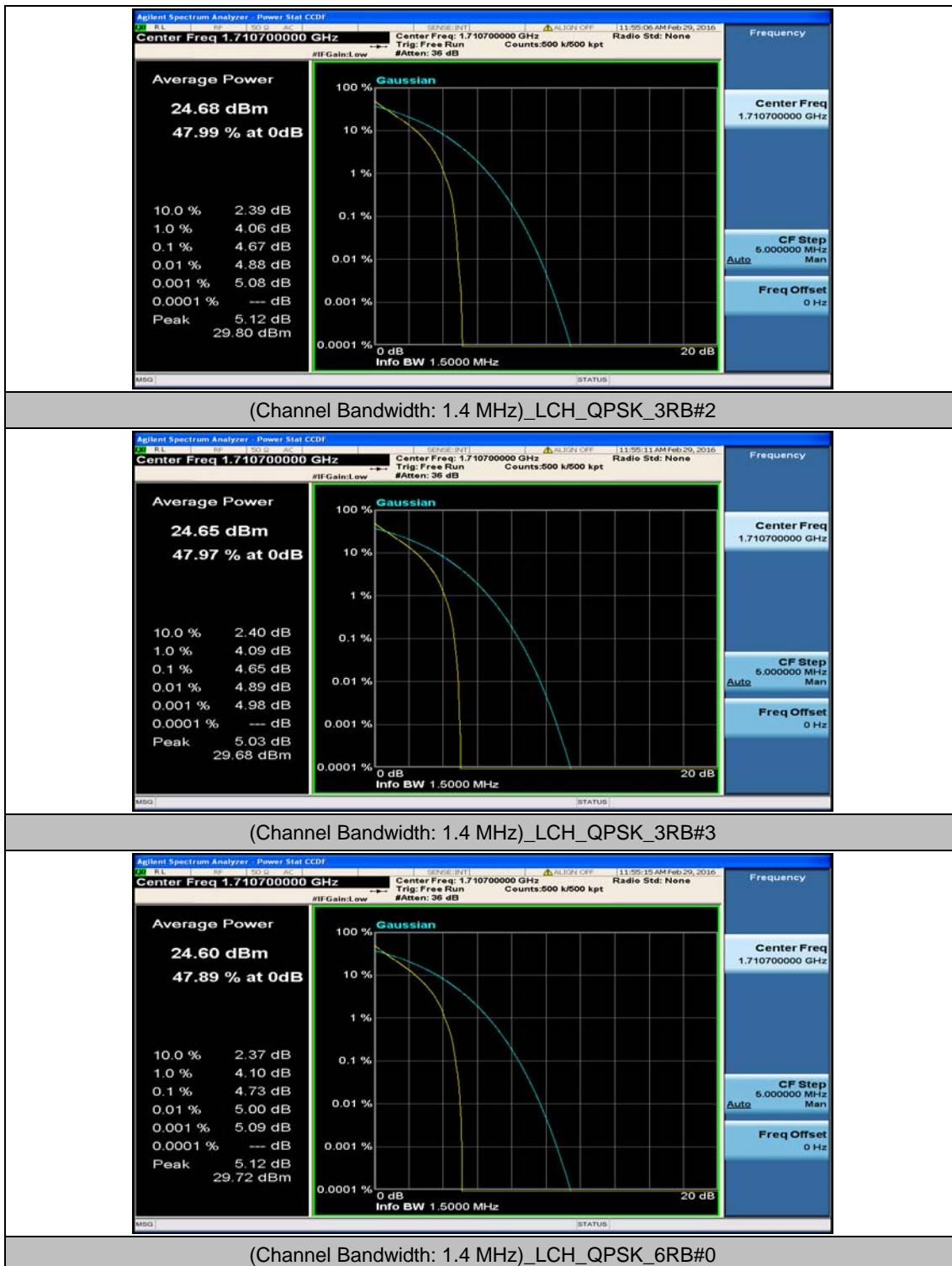
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	6.5	<13	PASS
		1	49	4.93	<13	PASS
		1	99	6.86	<13	PASS

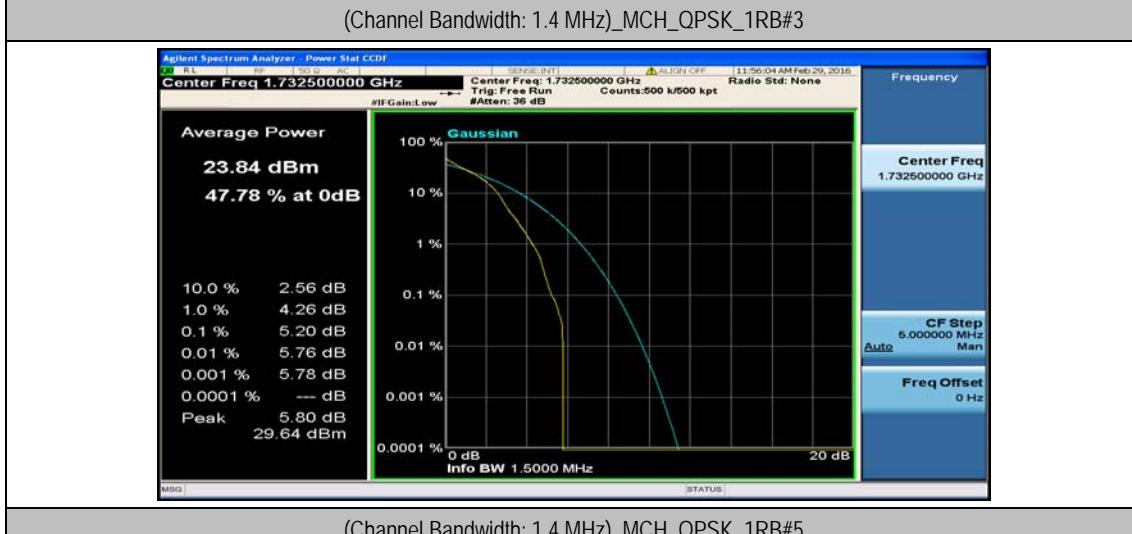
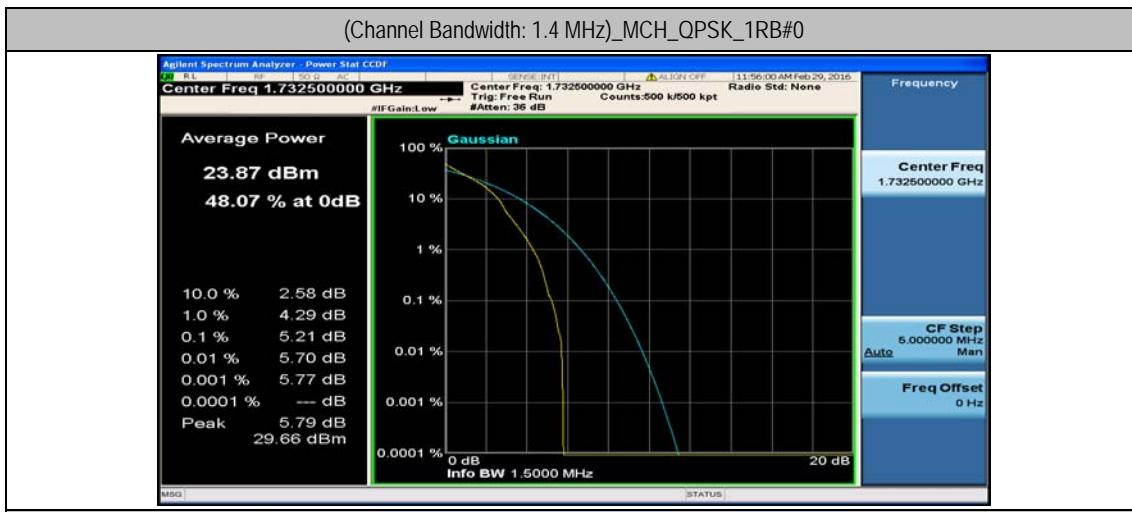
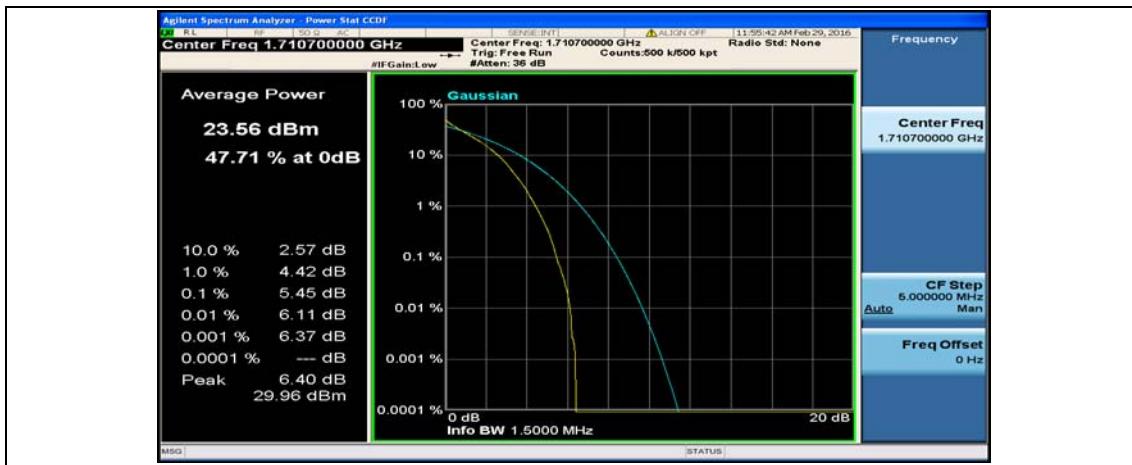
		50	0	5.53	<13	PASS
		50	25	5.59	<13	PASS
		50	50	5.77	<13	PASS
		100	0	5.68	<13	PASS
MCH	MCH	1	0	7.02	<13	PASS
		1	49	5.03	<13	PASS
		1	99	6.62	<13	PASS
		50	0	5.5	<13	PASS
		50	25	5.62	<13	PASS
		50	50	5.75	<13	PASS
		100	0	5.72	<13	PASS
		1	0	6.69	<13	PASS
HCH	HCH	1	49	4.94	<13	PASS
		1	99	7.87	<13	PASS
		50	0	5.48	<13	PASS
		50	25	5.52	<13	PASS
		50	50	5.8	<13	PASS
		100	0	5.75	<13	PASS
		1	0	6.87	<13	PASS
		1	49	5.74	<13	PASS
16QAM	LCH	1	99	6.96	<13	PASS
		50	0	6.52	<13	PASS
		50	25	6.33	<13	PASS
		50	50	6.69	<13	PASS
		100	0	6.8	<13	PASS
	MCH	1	0	7.54	<13	PASS
		1	49	5.83	<13	PASS
		1	99	7.18	<13	PASS
		50	0	6.54	<13	PASS
		50	25	6.31	<13	PASS
		50	50	6.68	<13	PASS
		100	0	6.81	<13	PASS
	HCH	1	0	6.73	<13	PASS
		1	49	5.77	<13	PASS
		1	99	6.98	<13	PASS
		50	0	6.59	<13	PASS
		50	25	6.32	<13	PASS
		50	50	6.69	<13	PASS
		100	0	6.66	<13	PASS

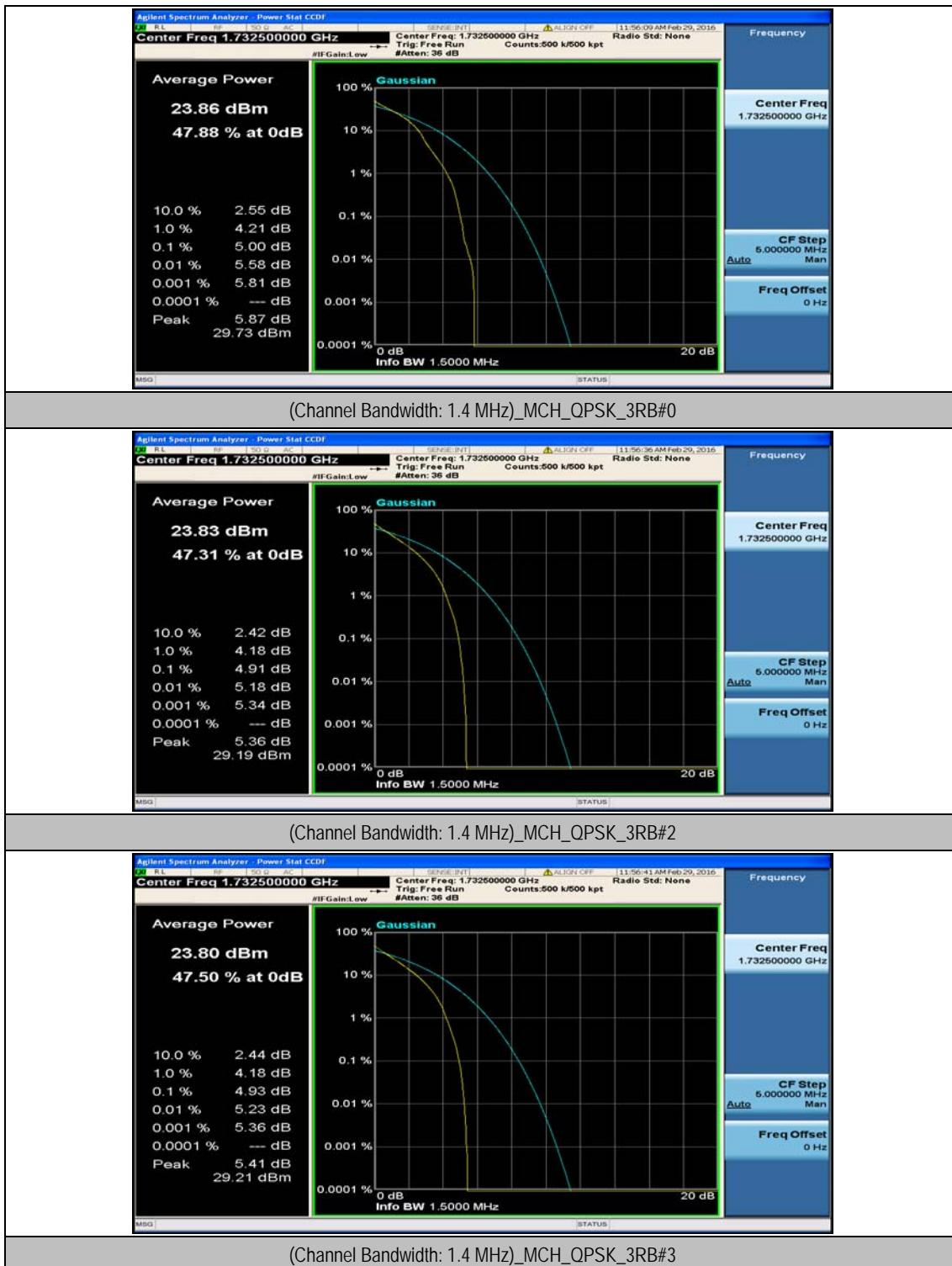
Test Graphs

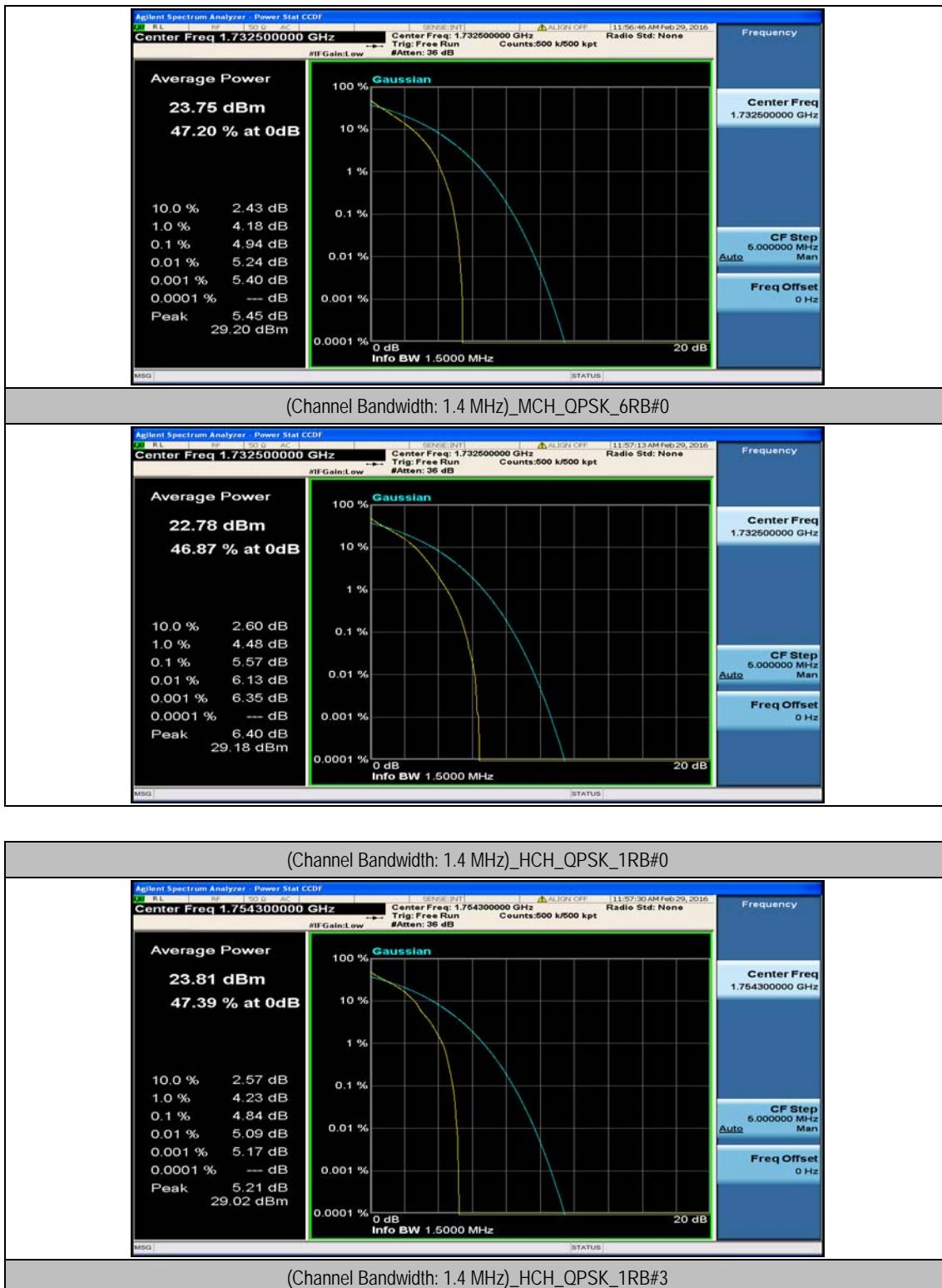
Channel Bandwidth: 1.4 MHz

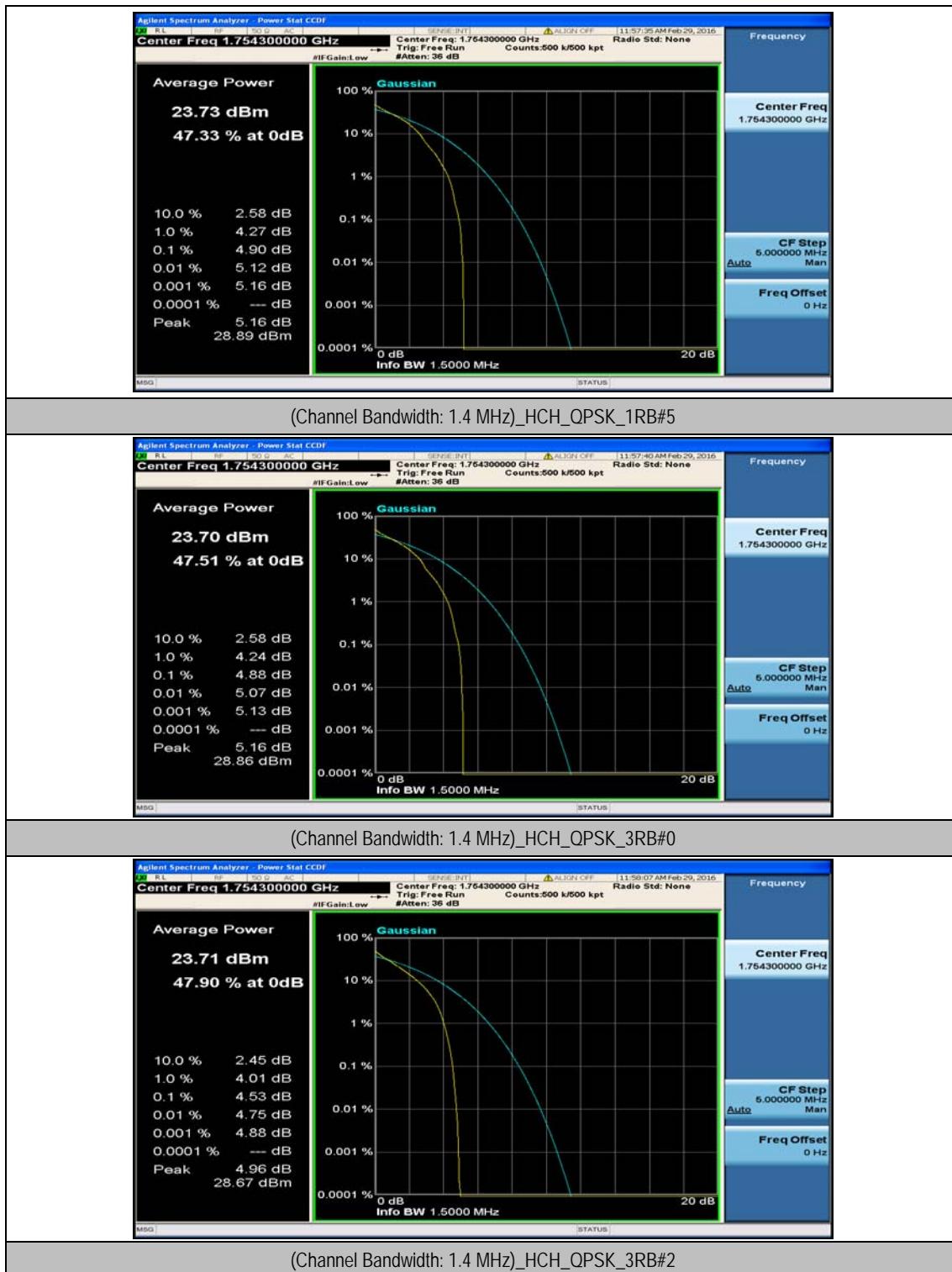


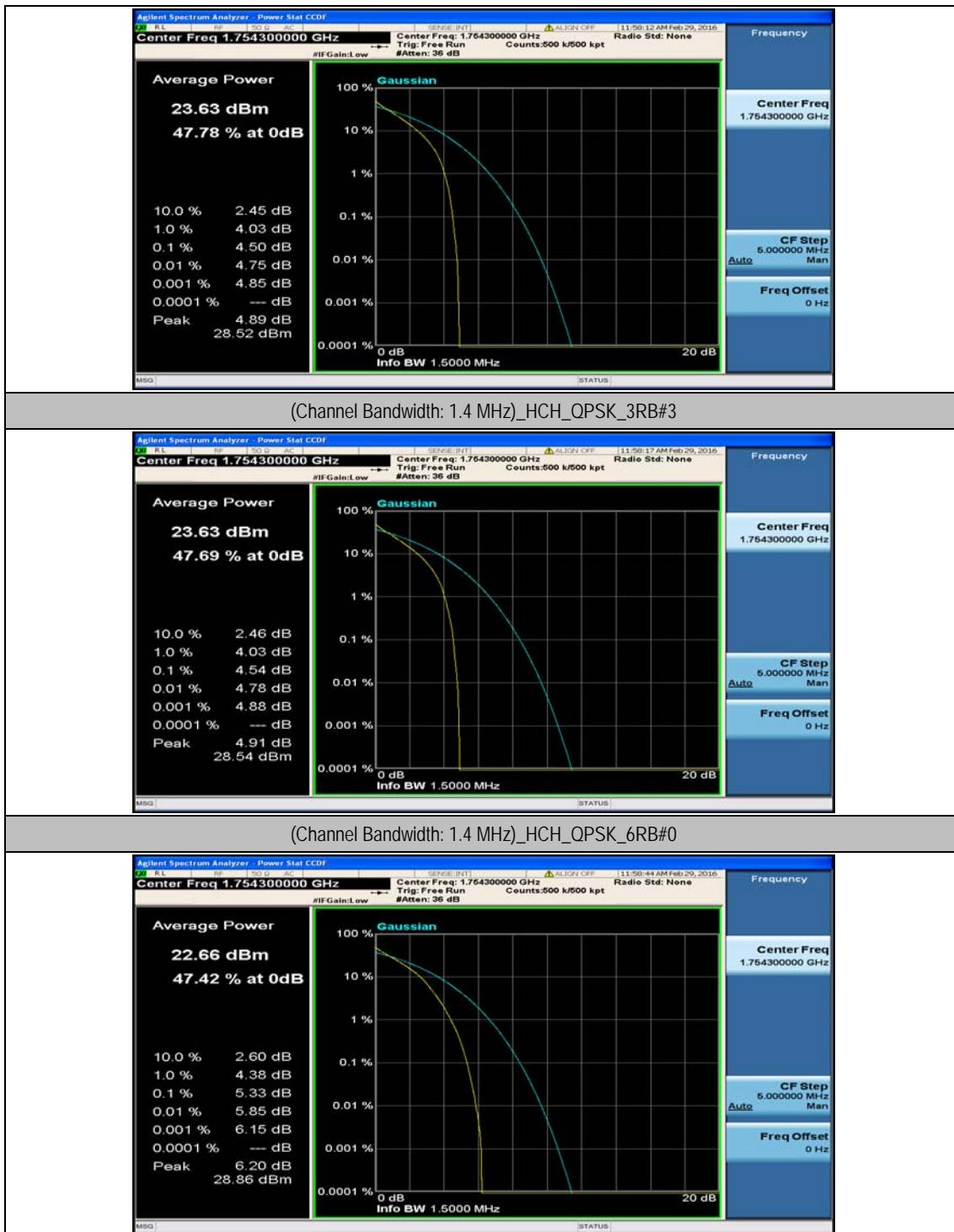


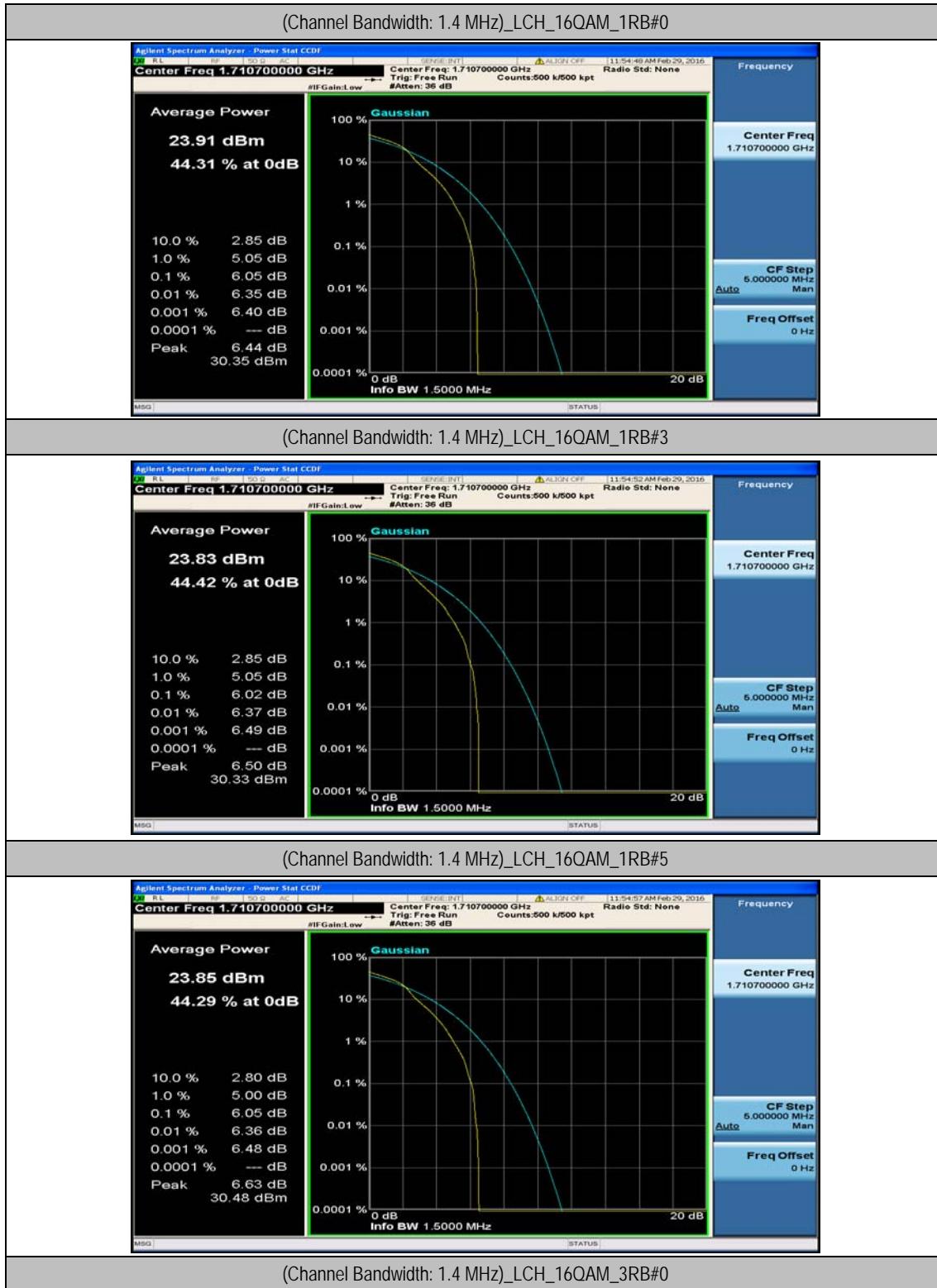


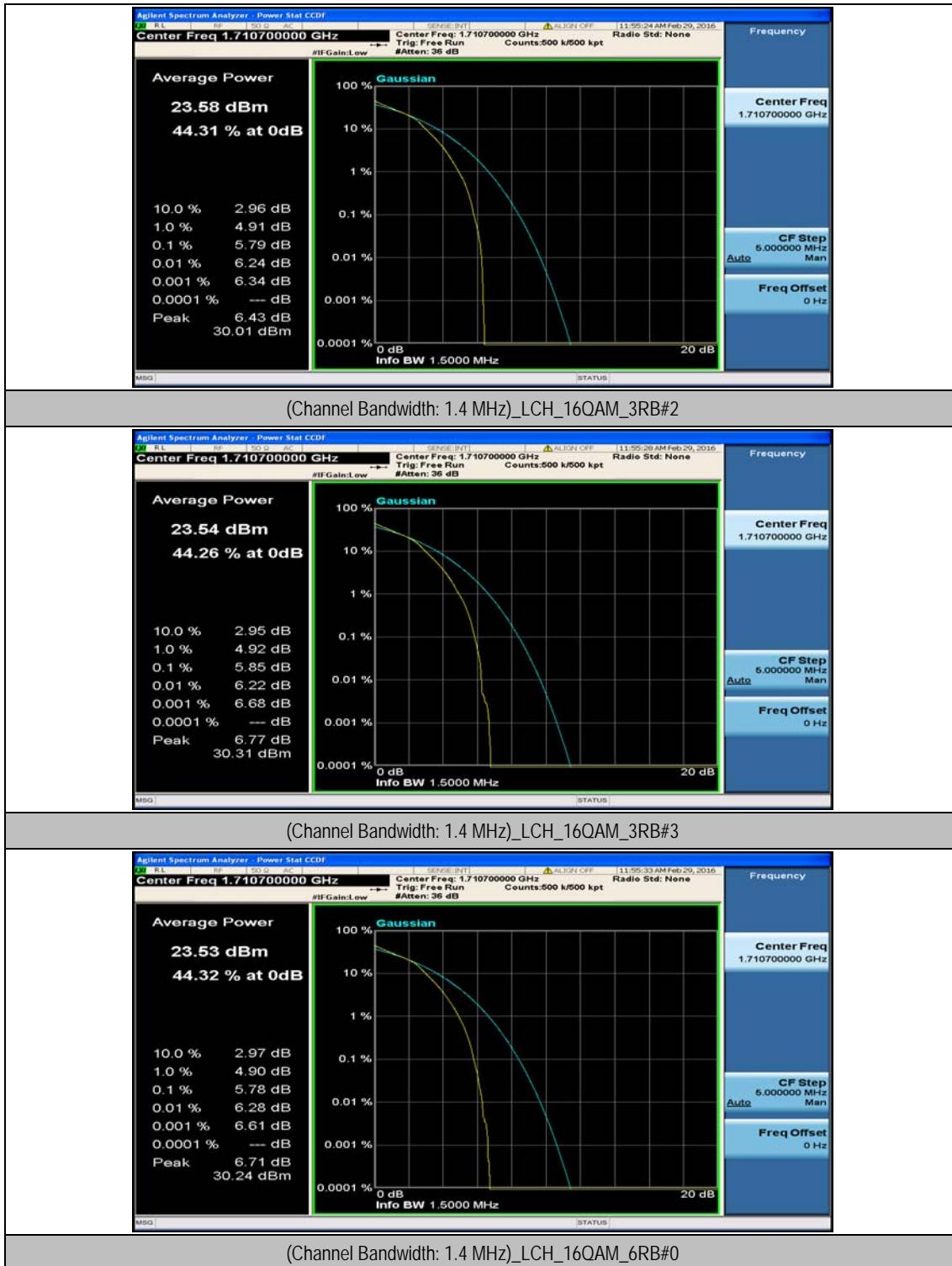


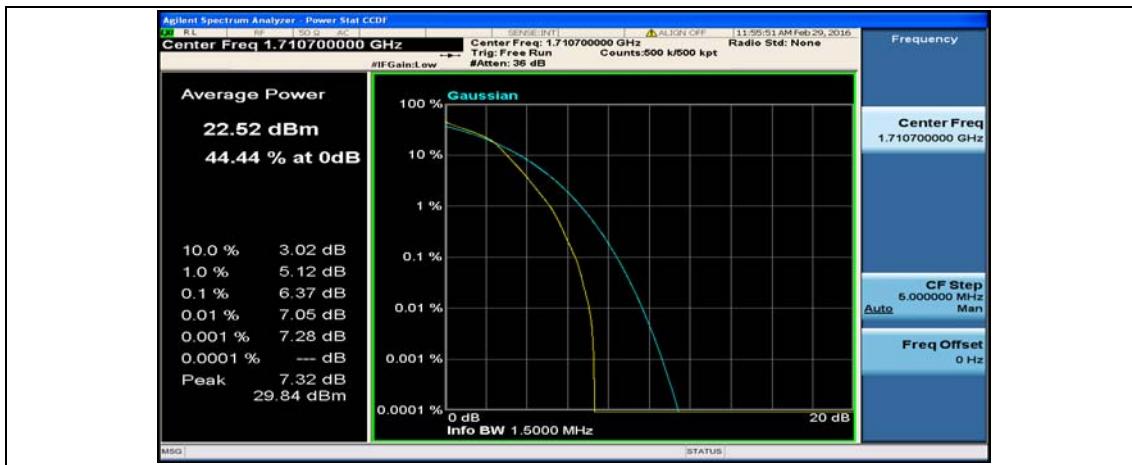


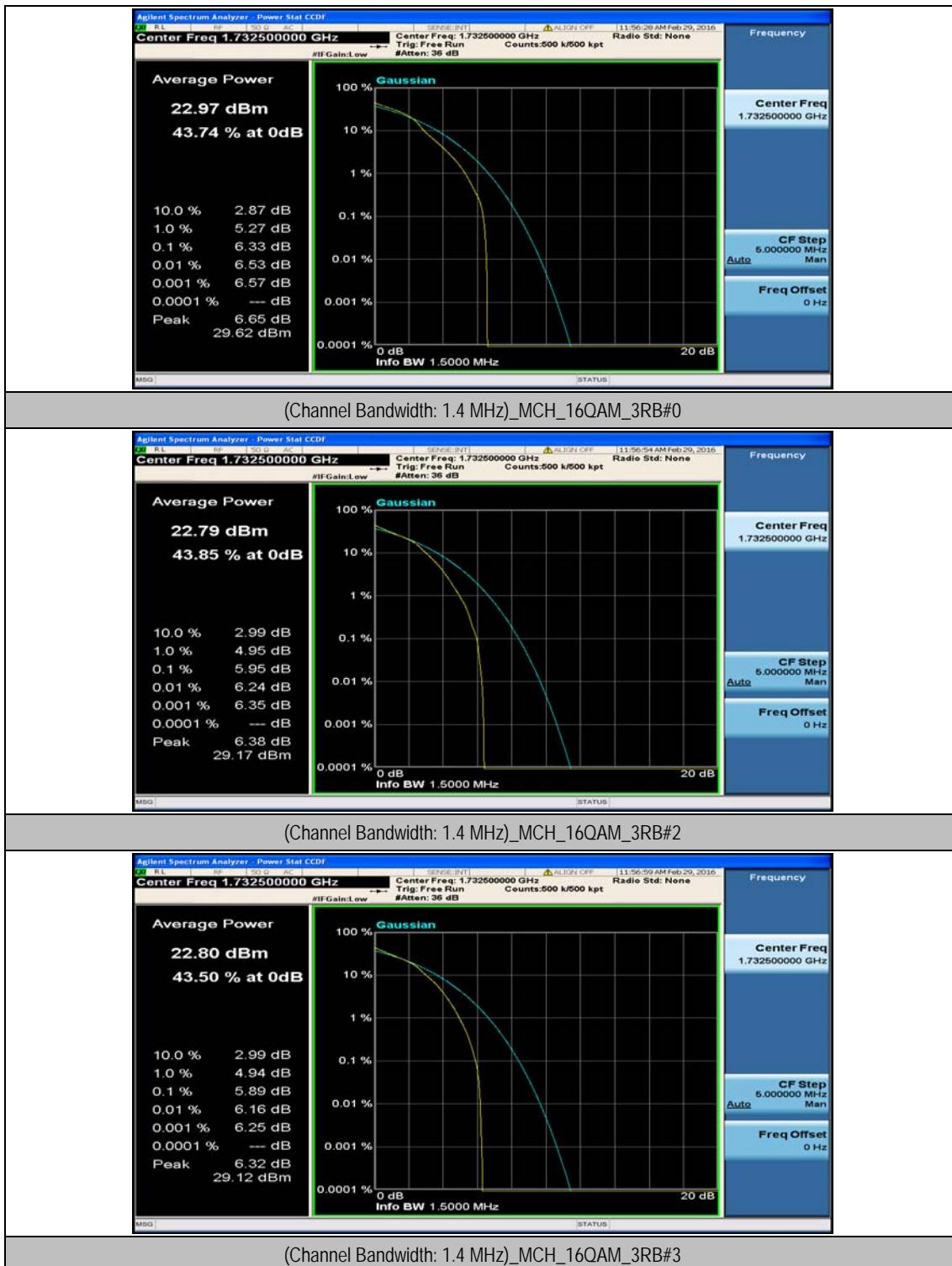


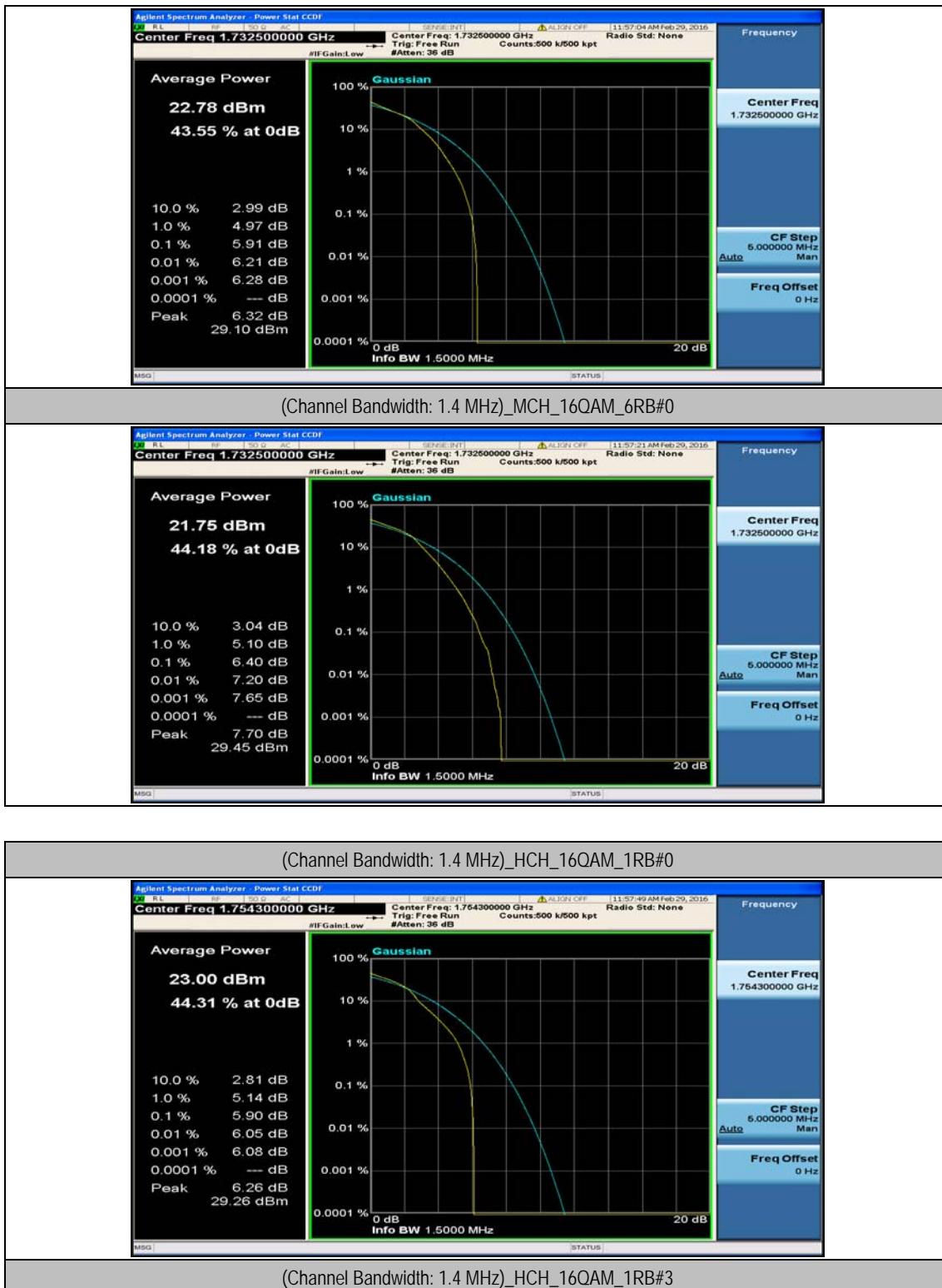


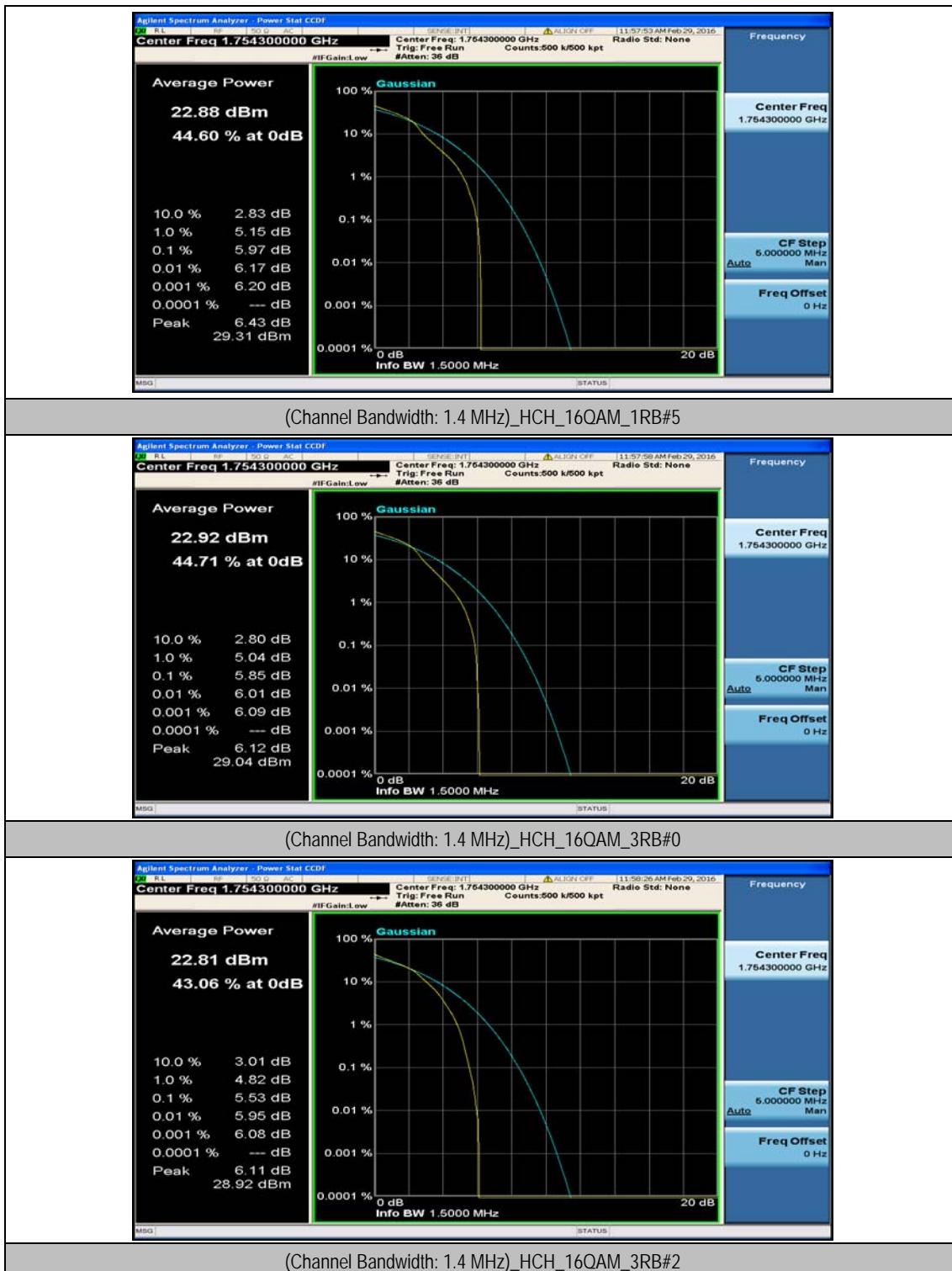


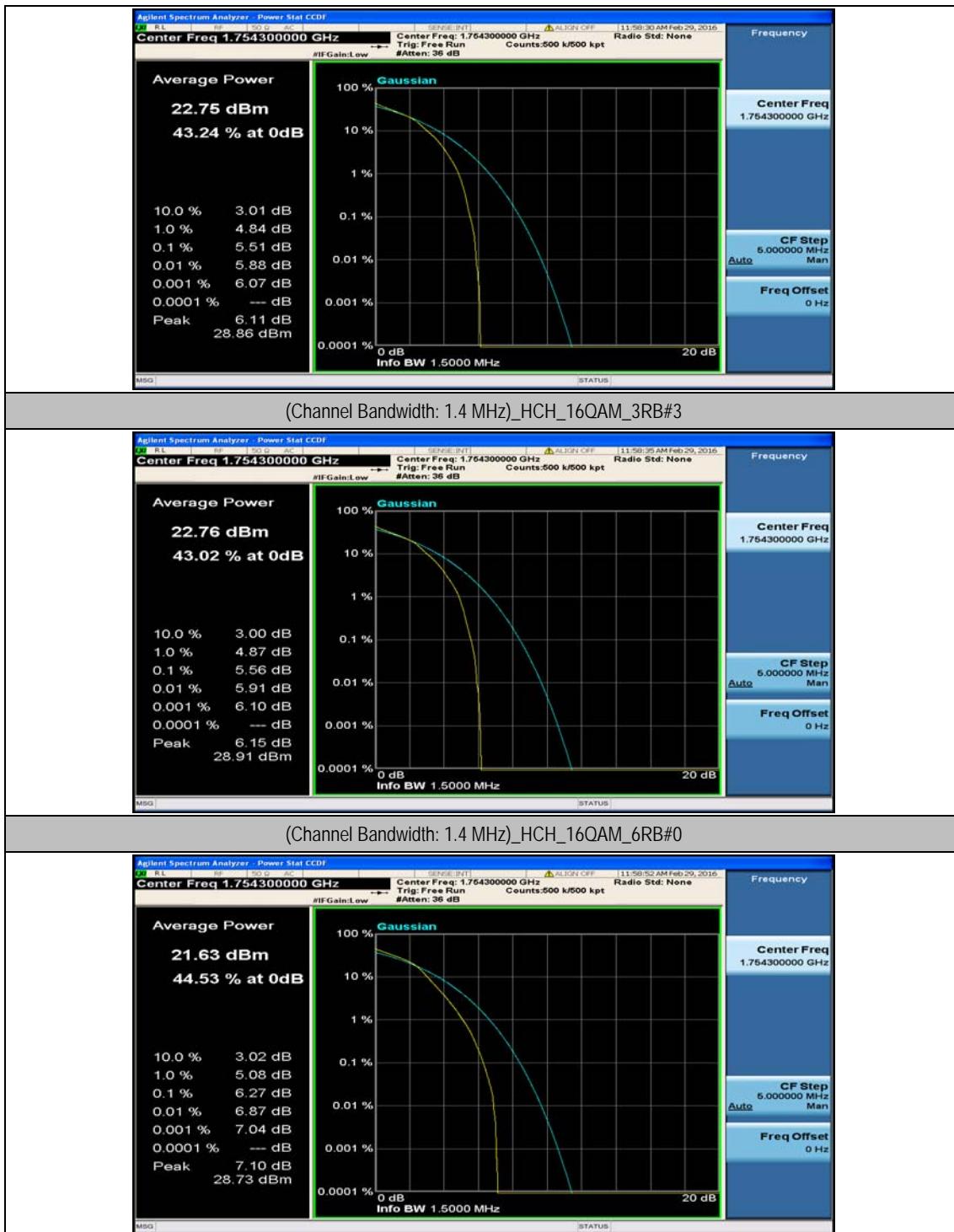




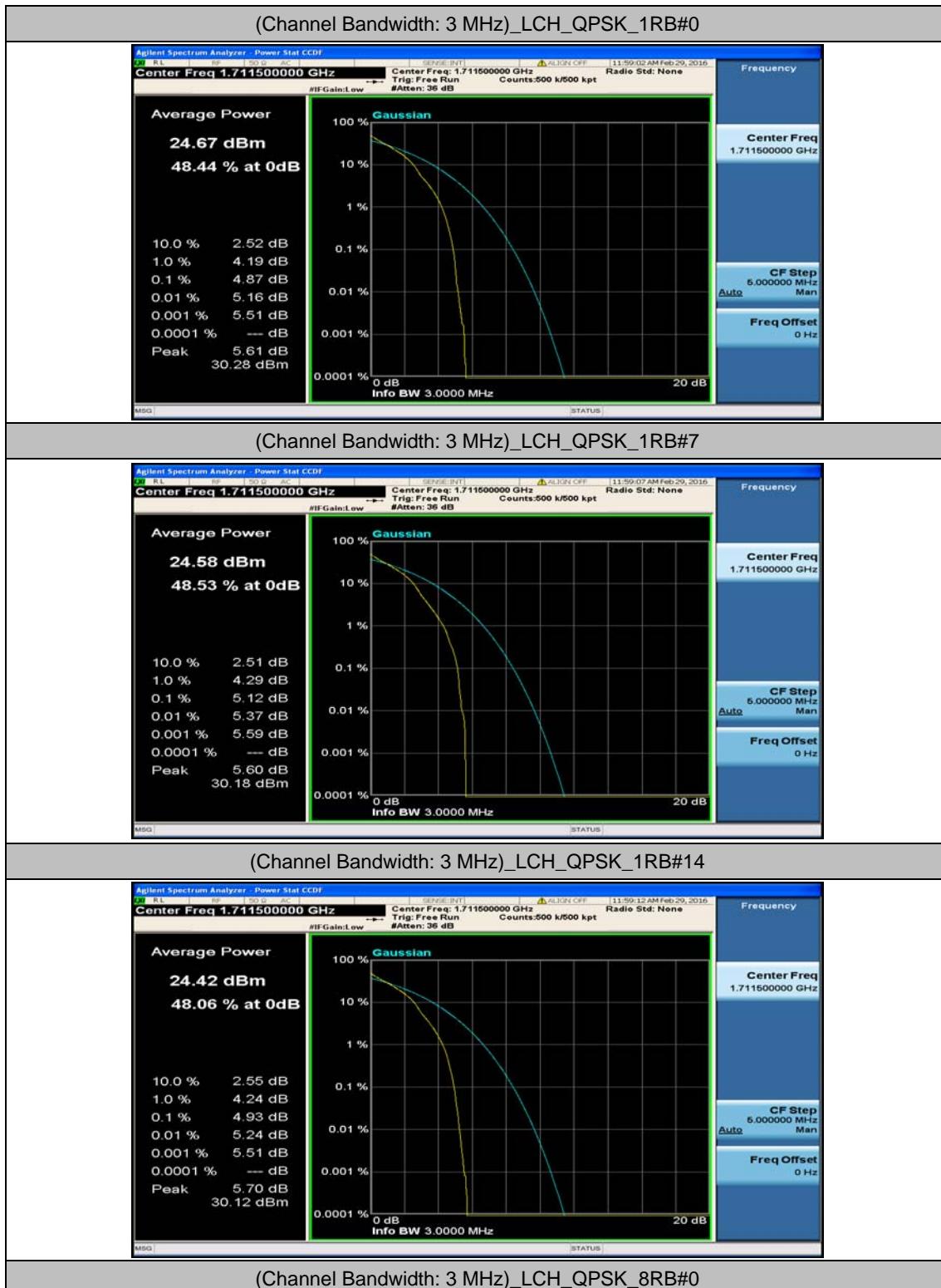


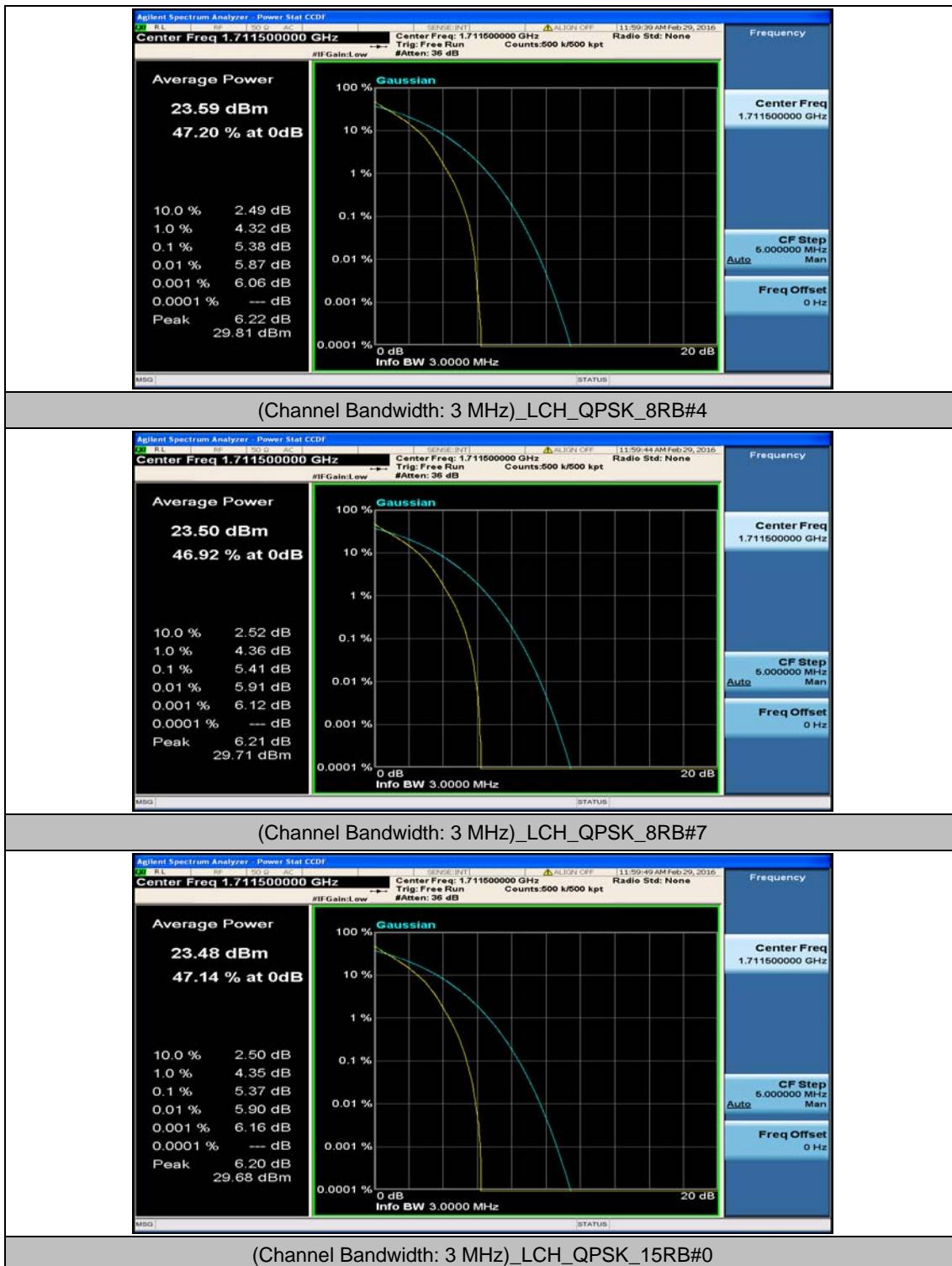


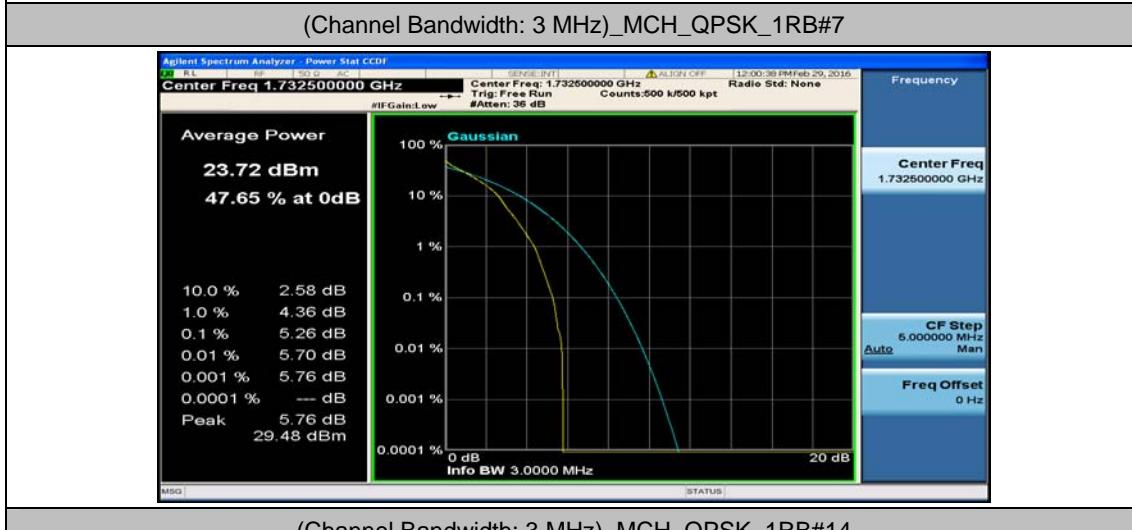
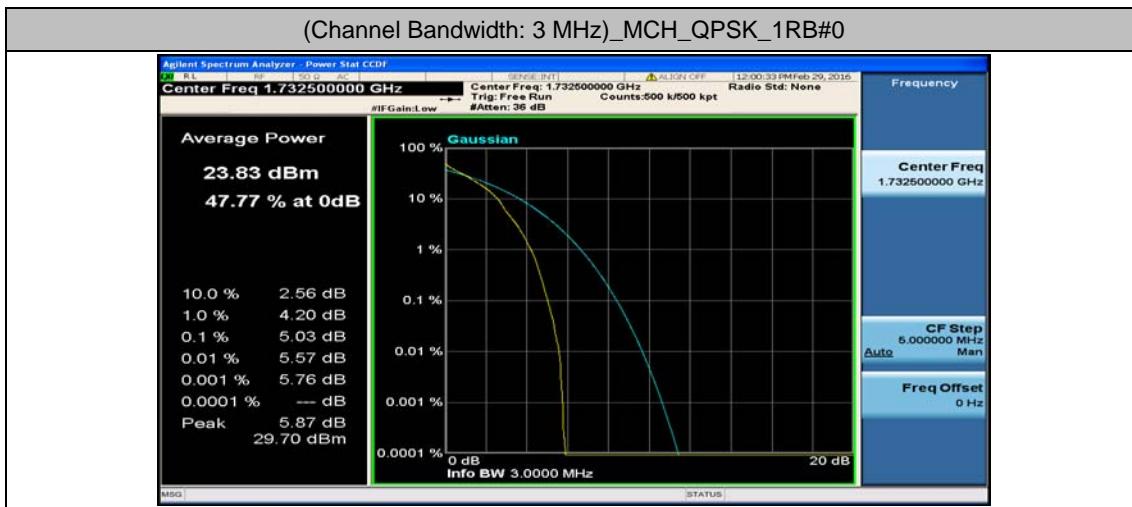
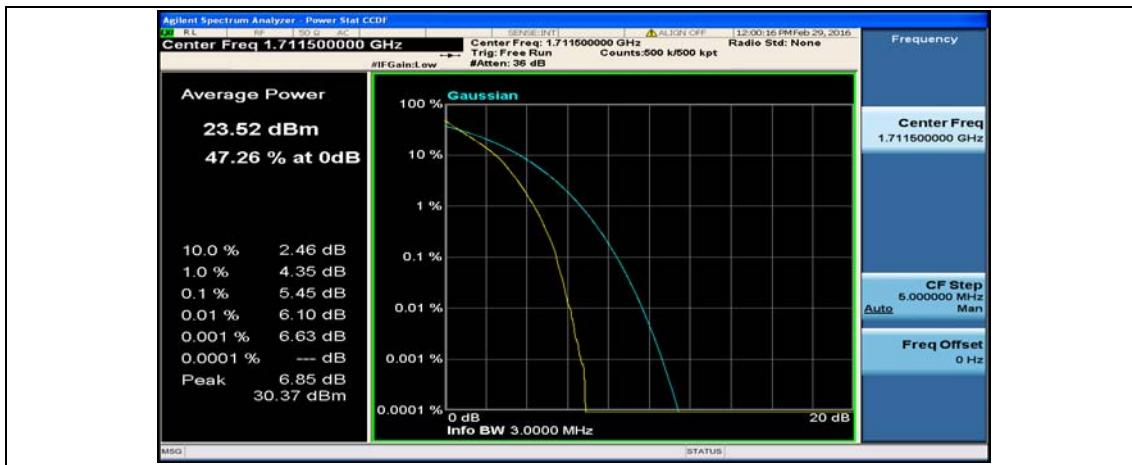




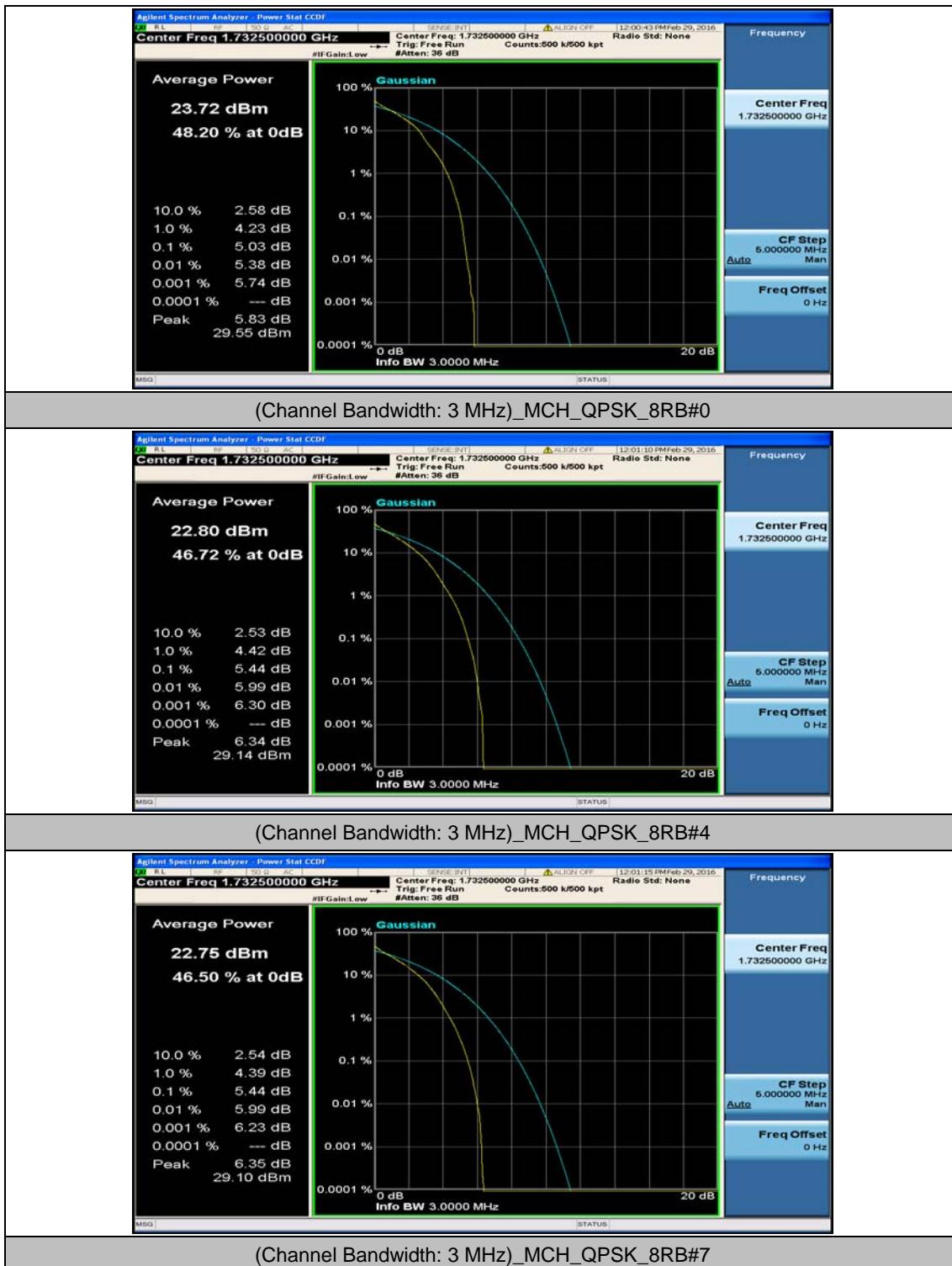
Channel Bandwidth: 3 MHz

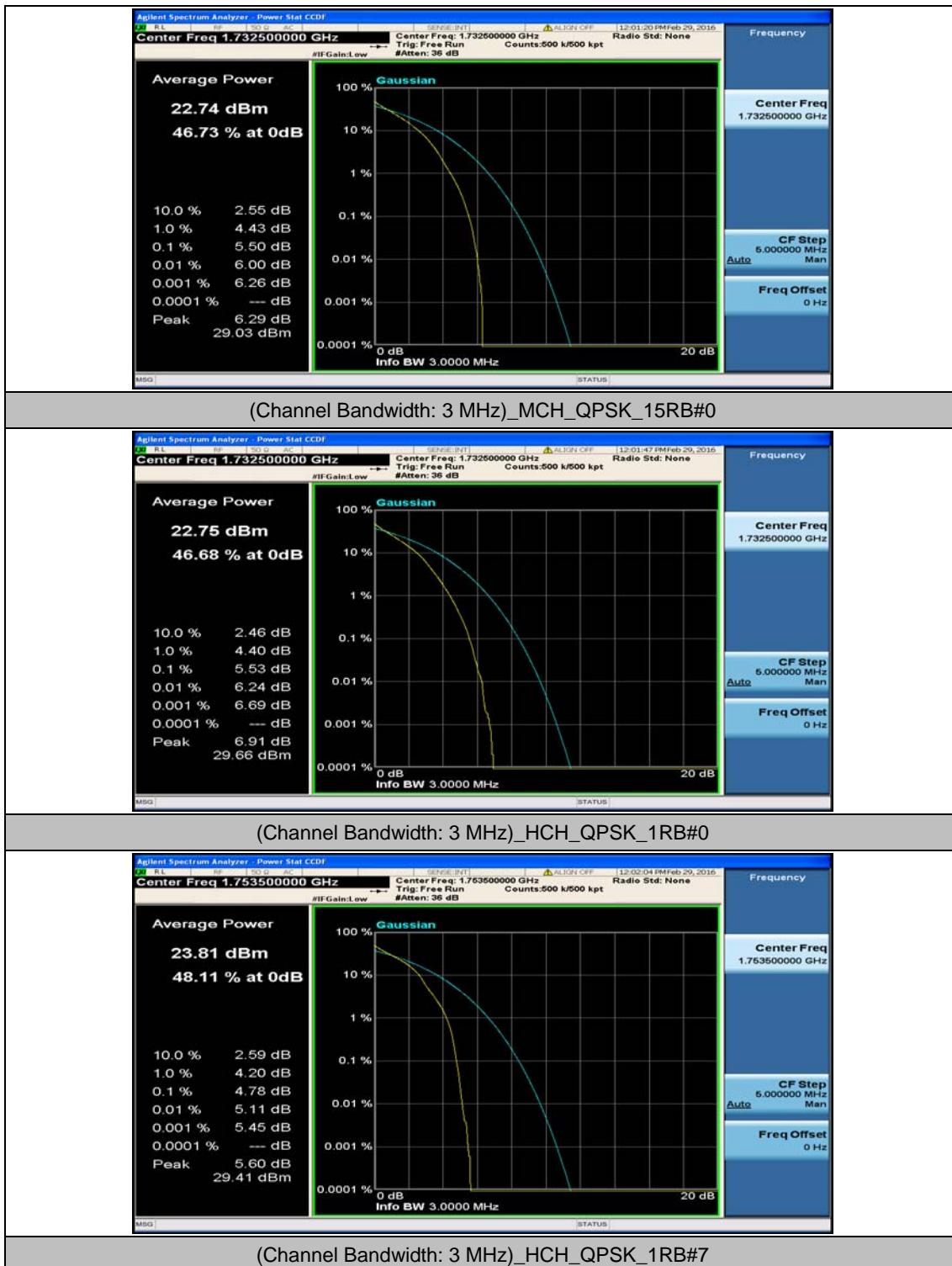


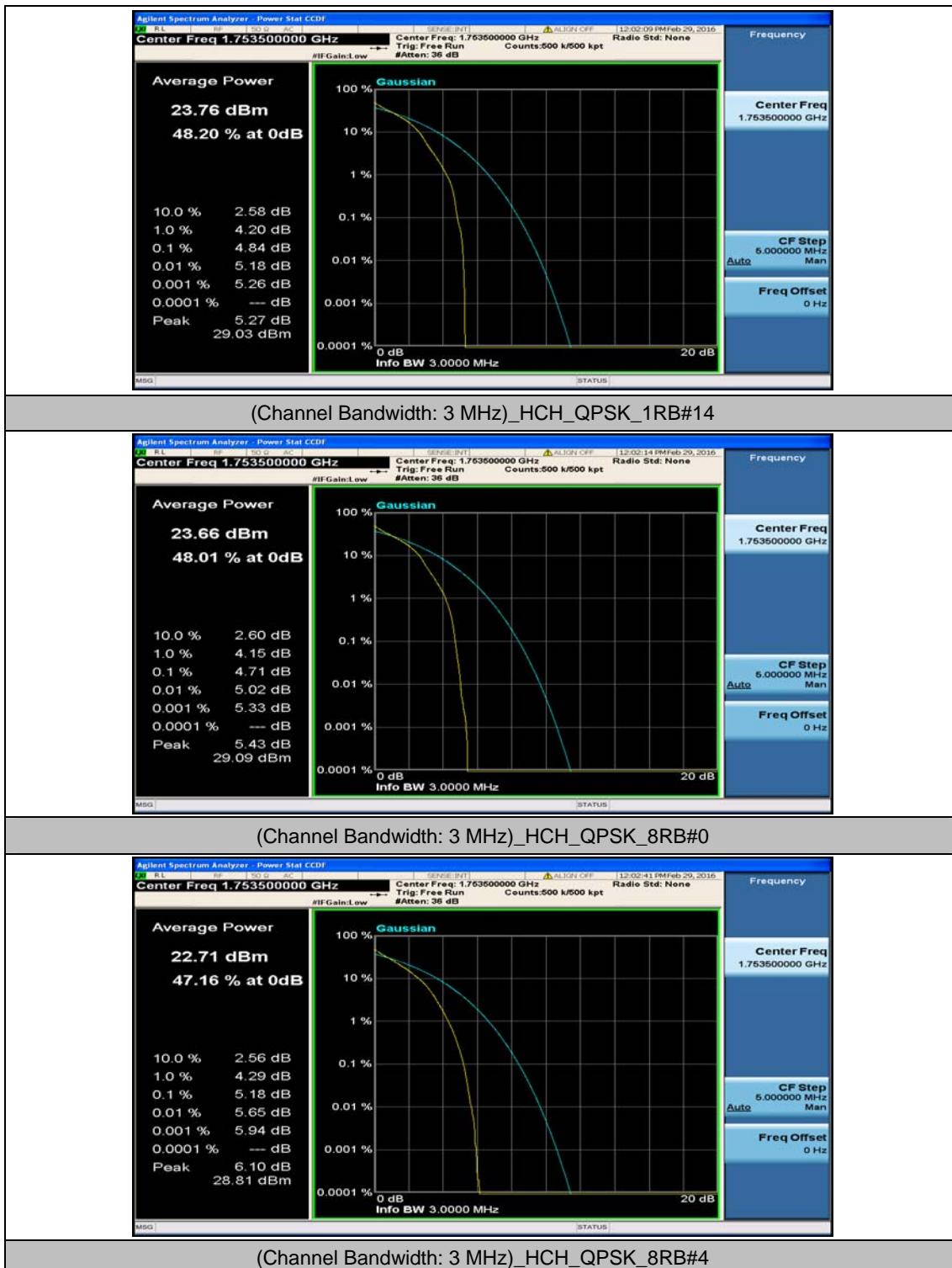


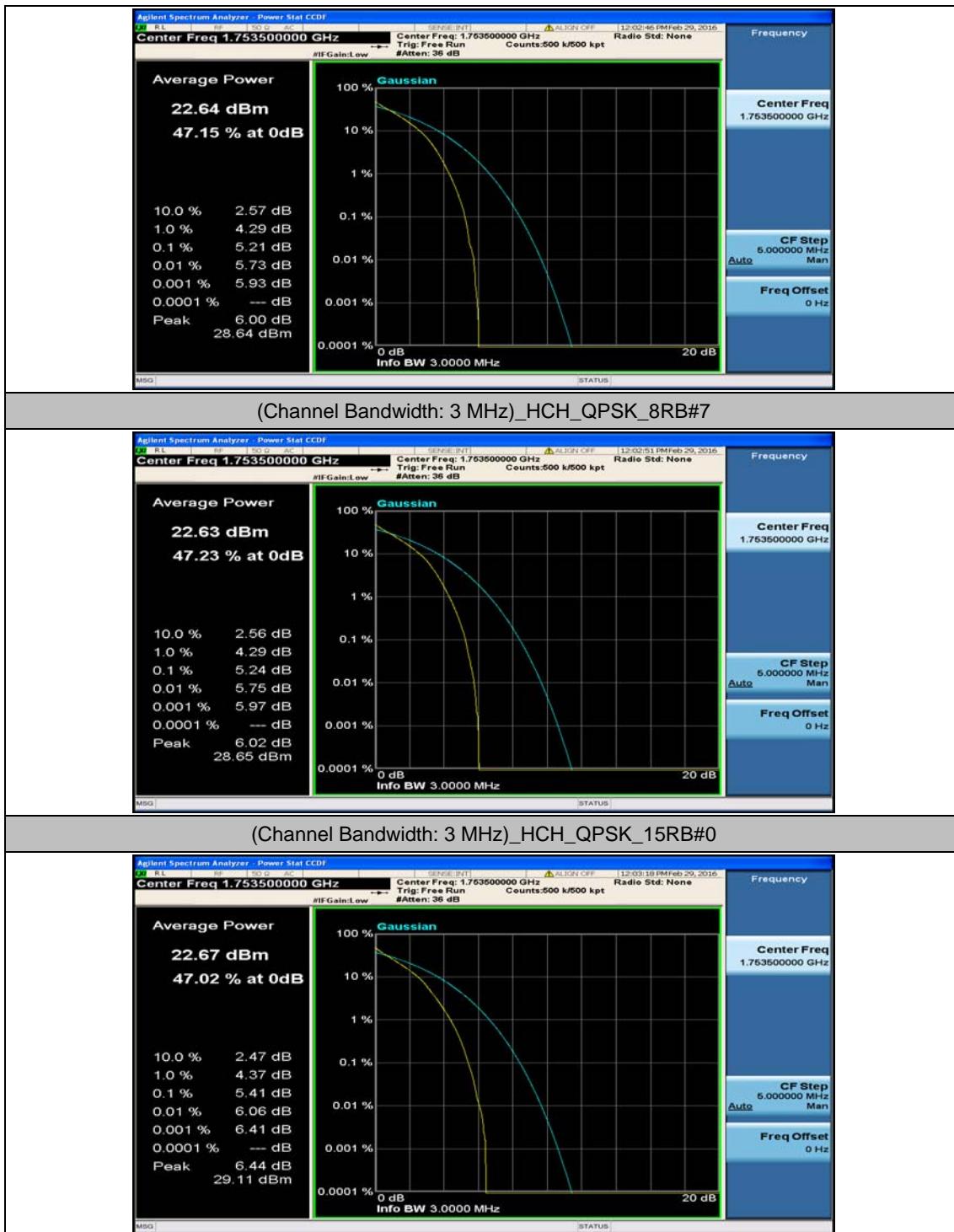


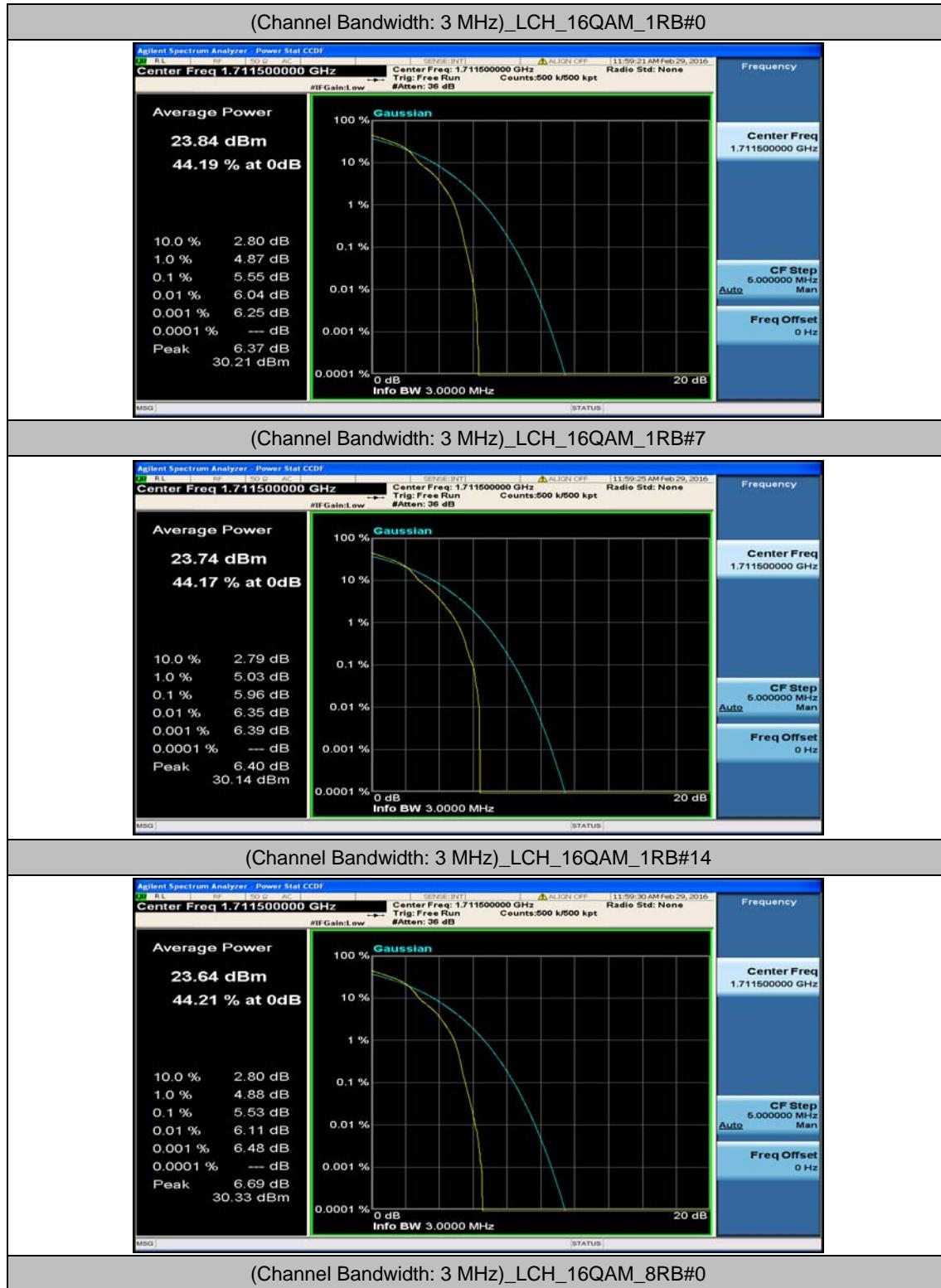
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

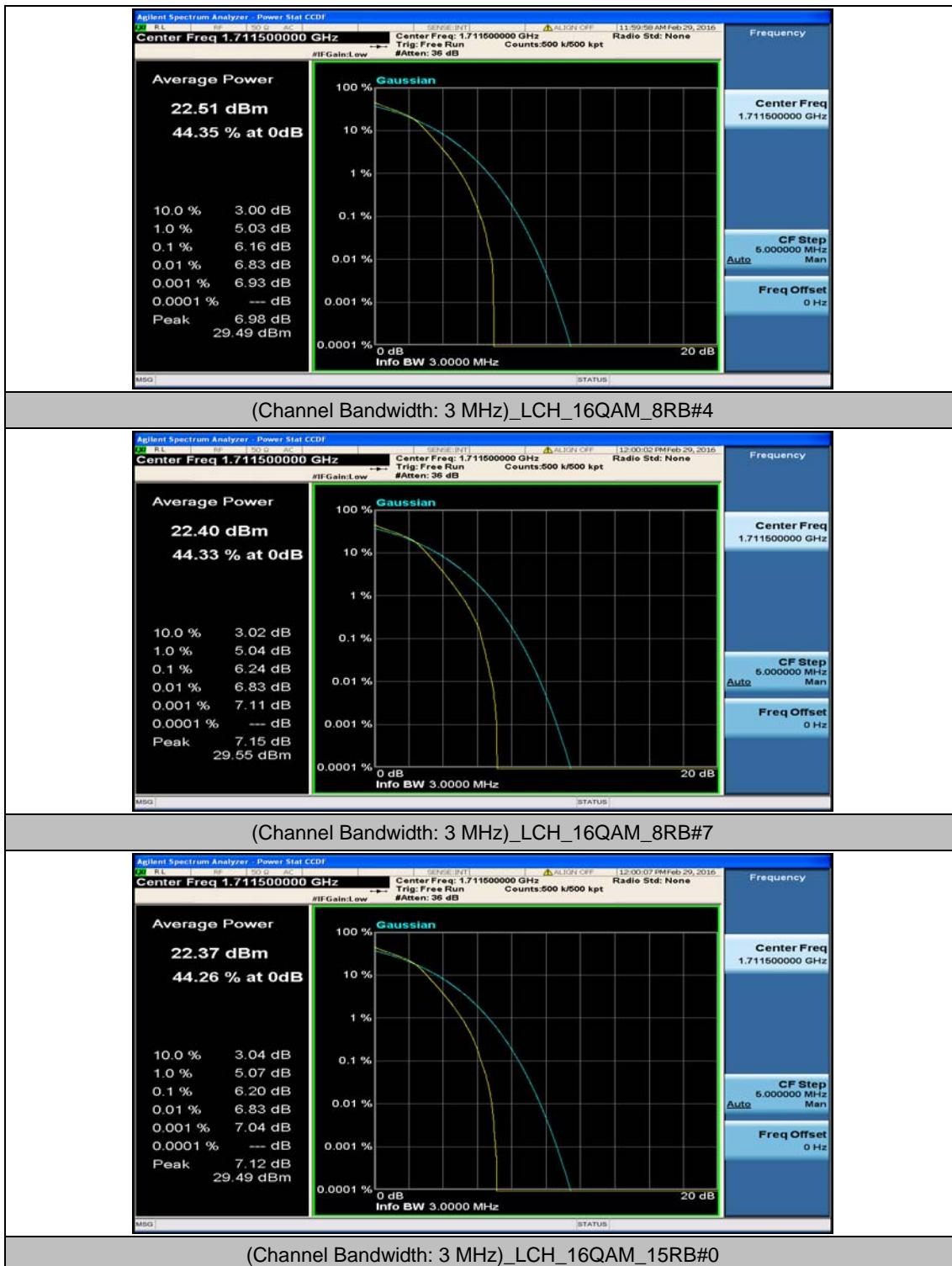


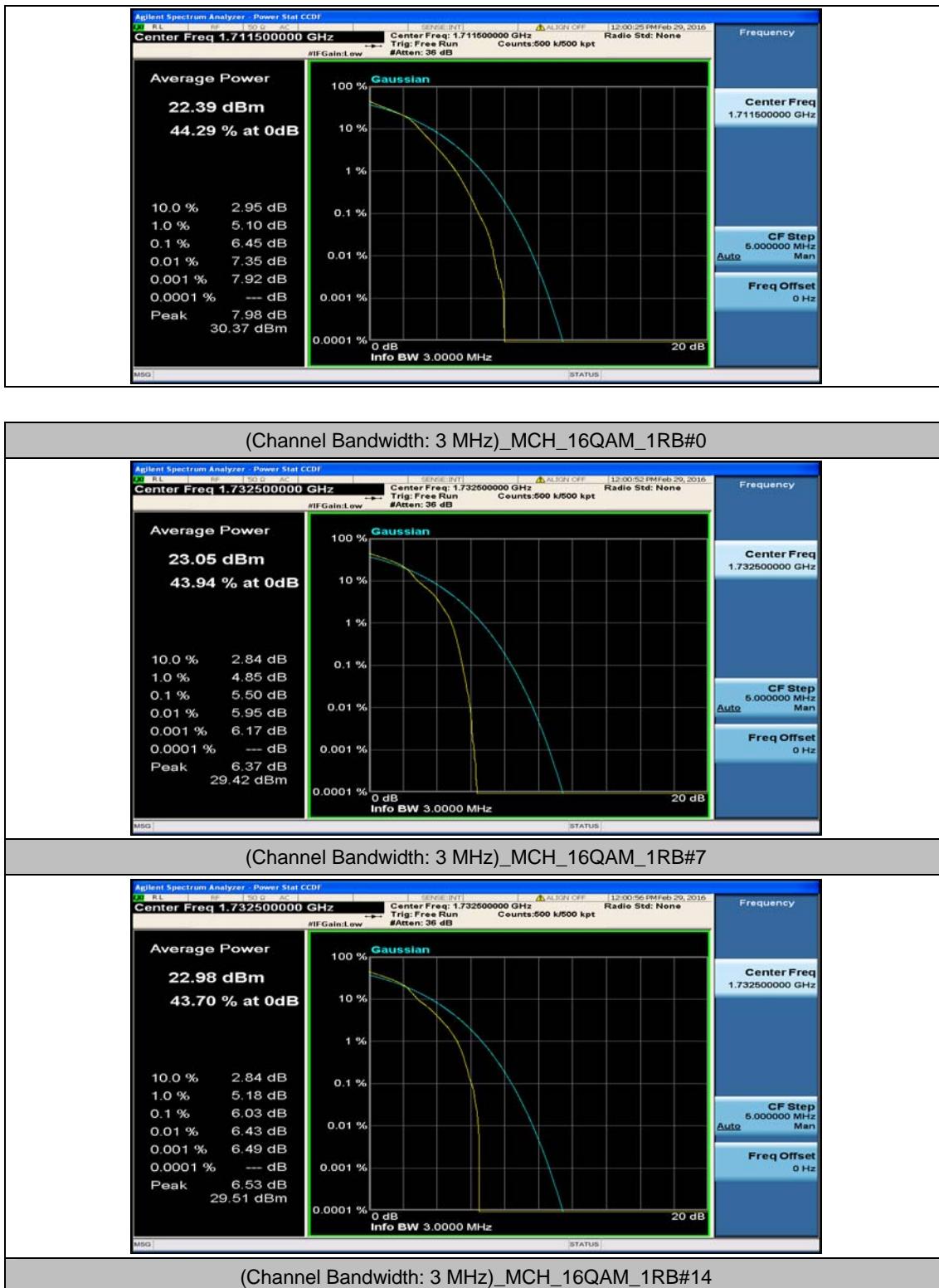


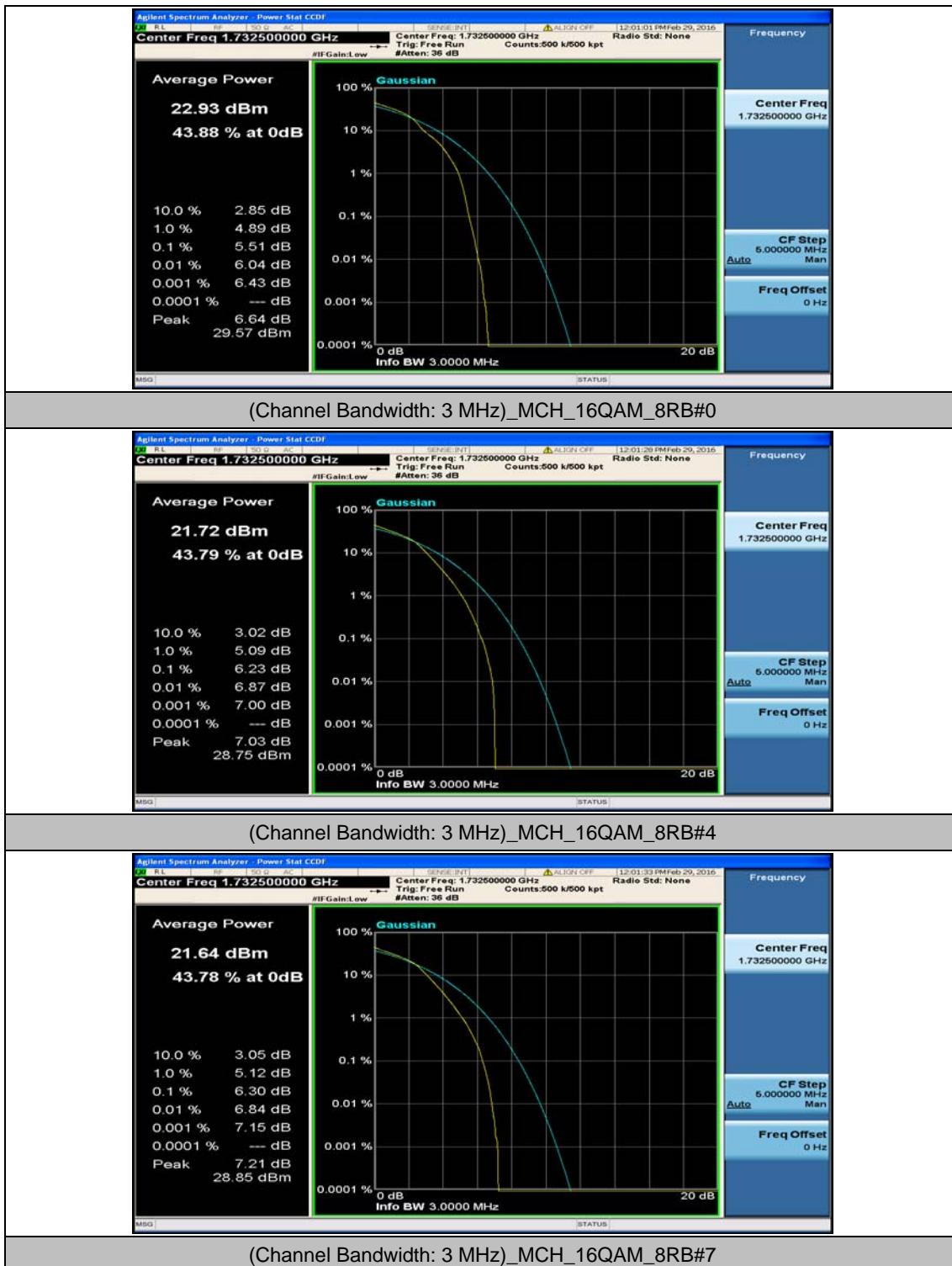


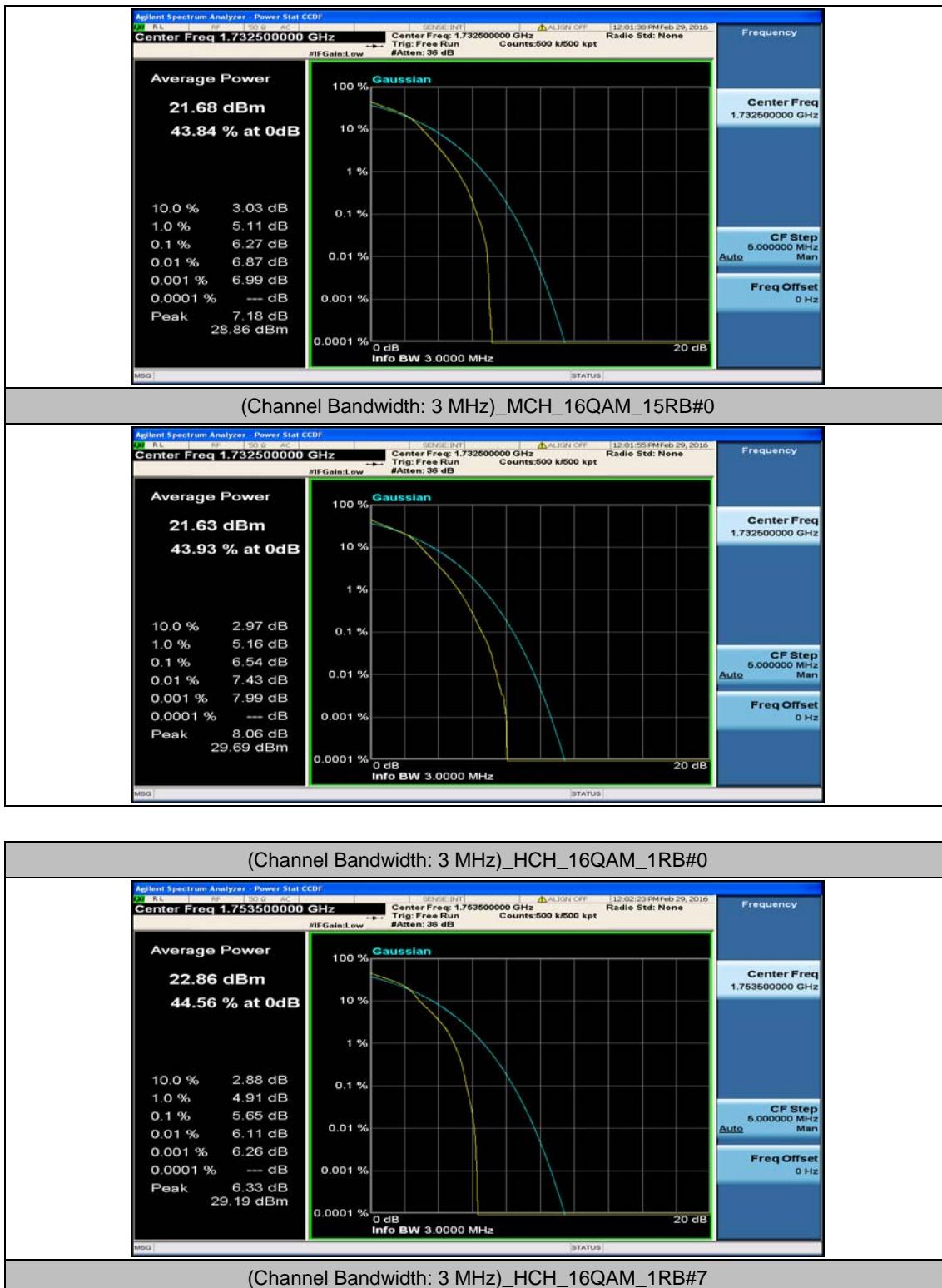


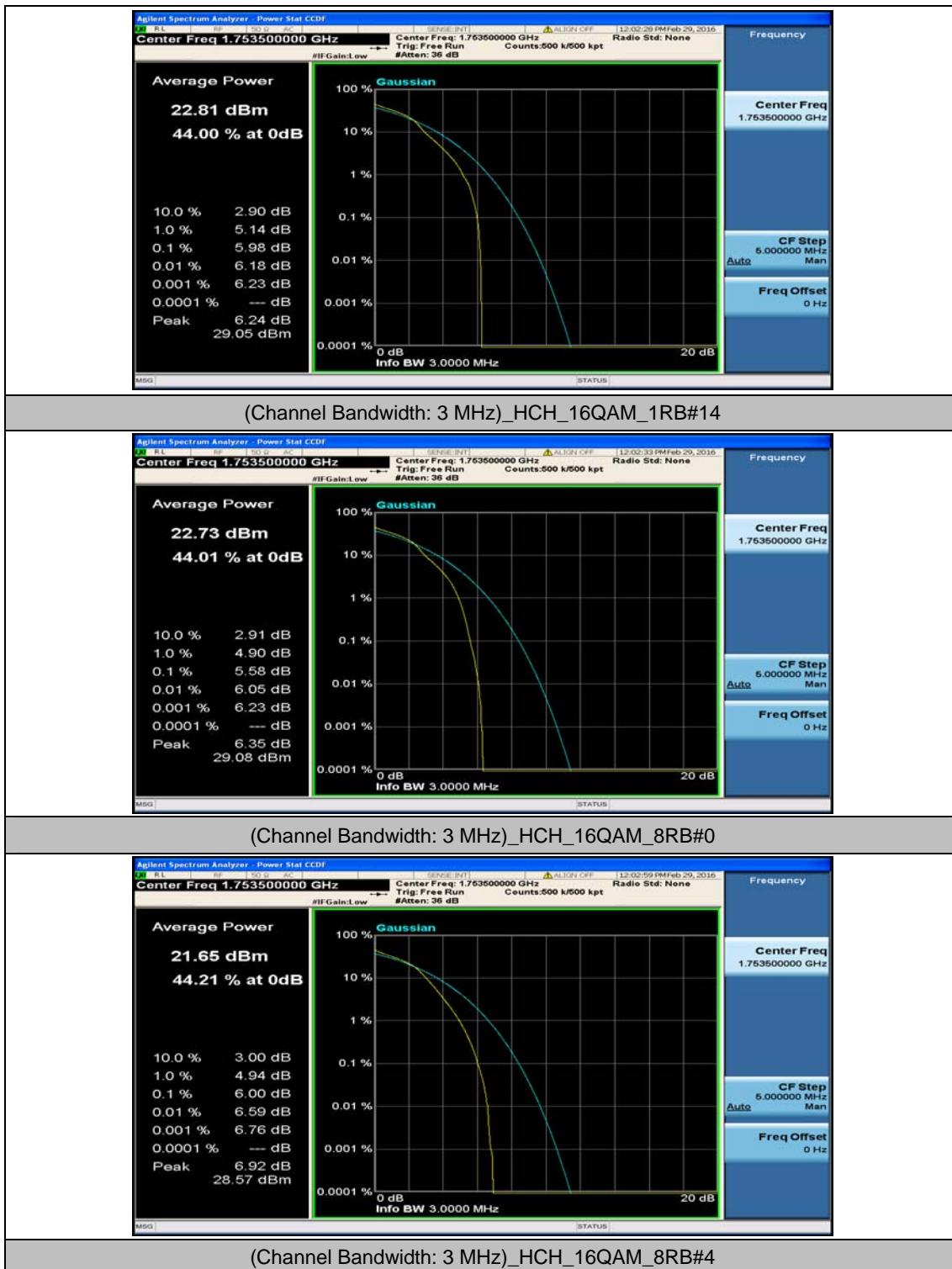


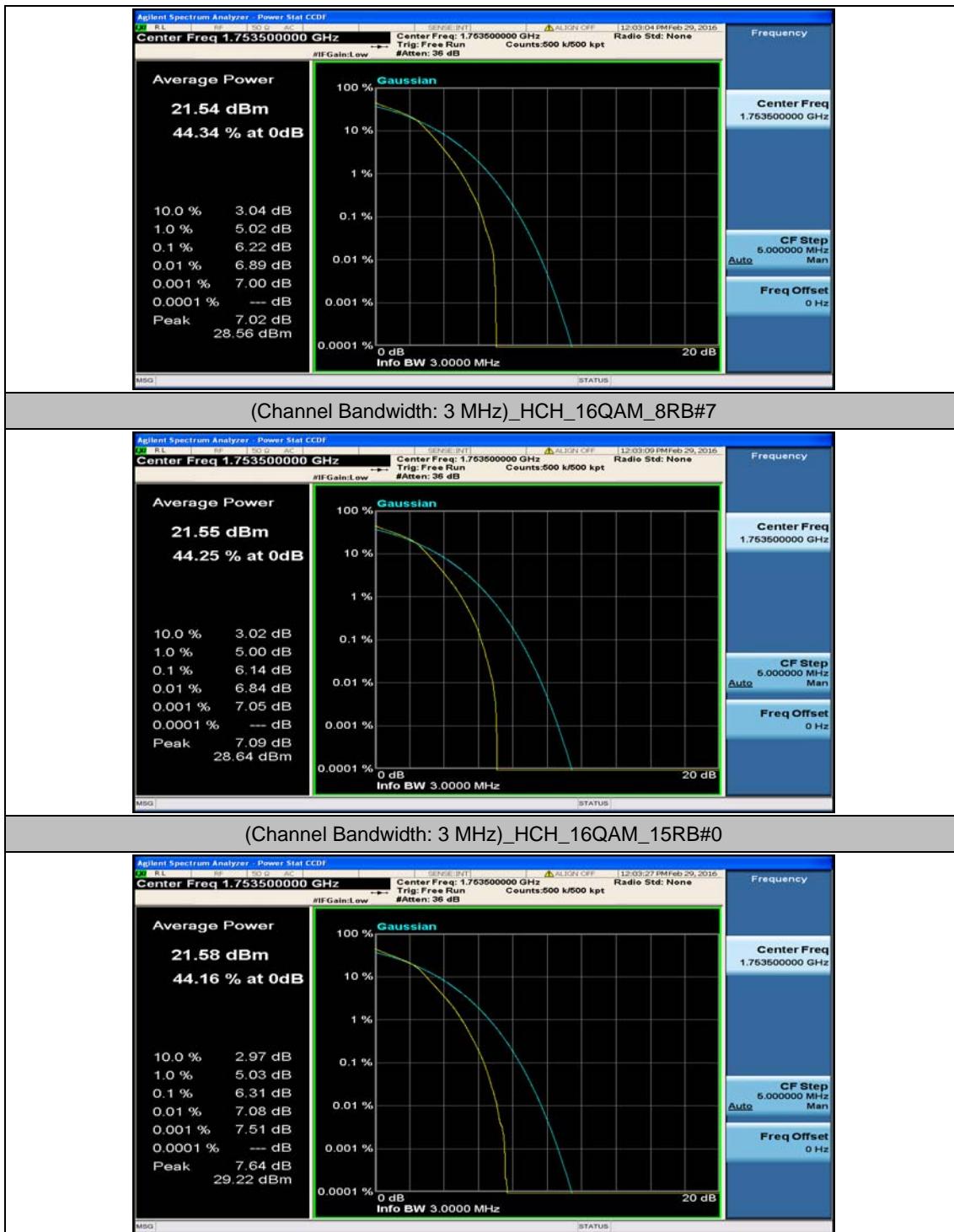




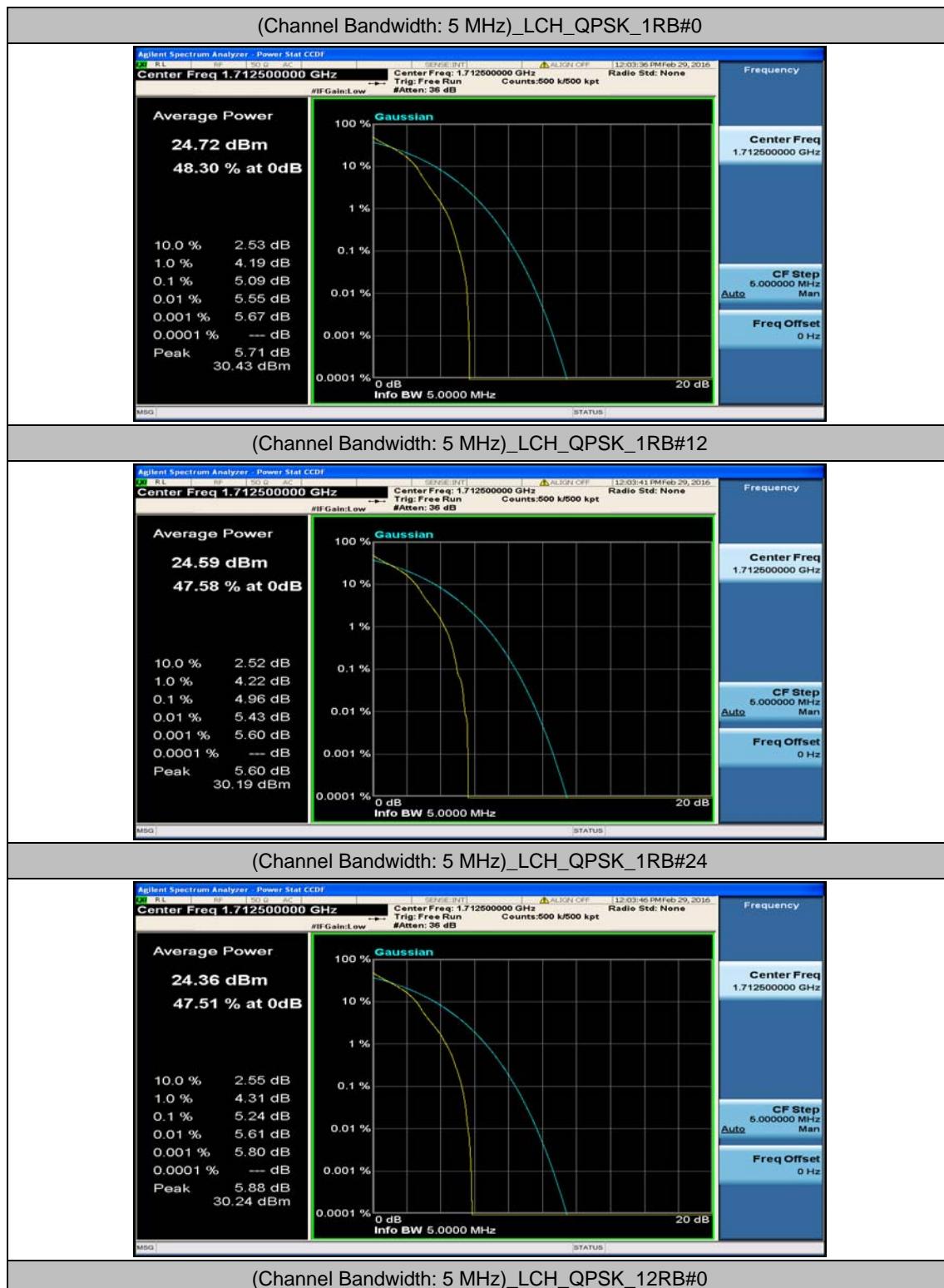


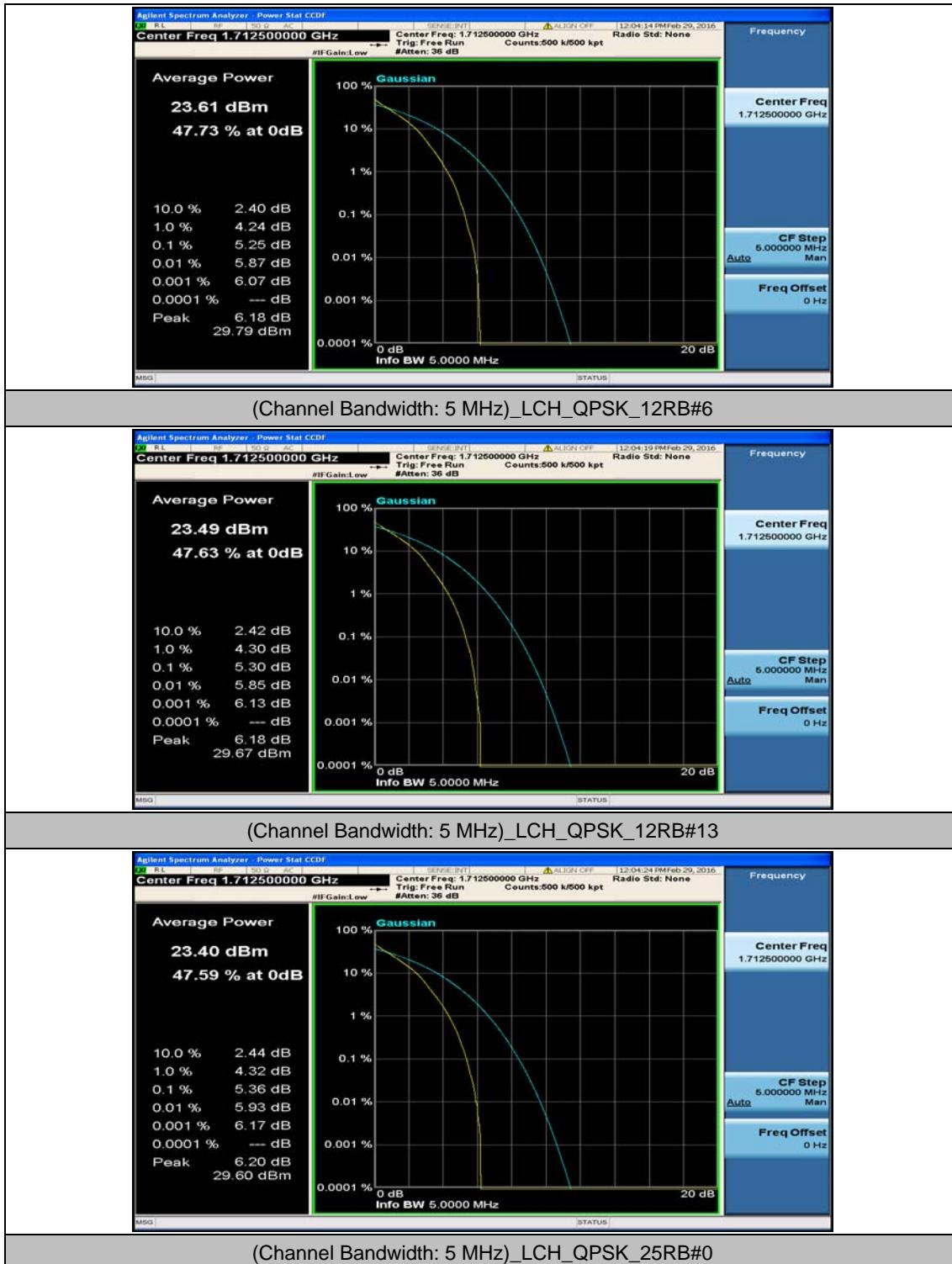


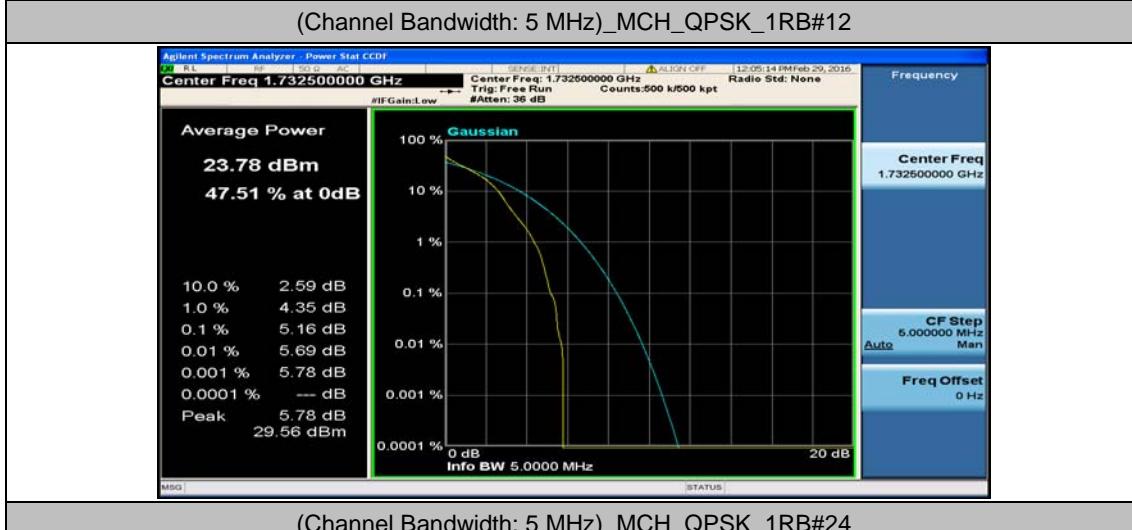
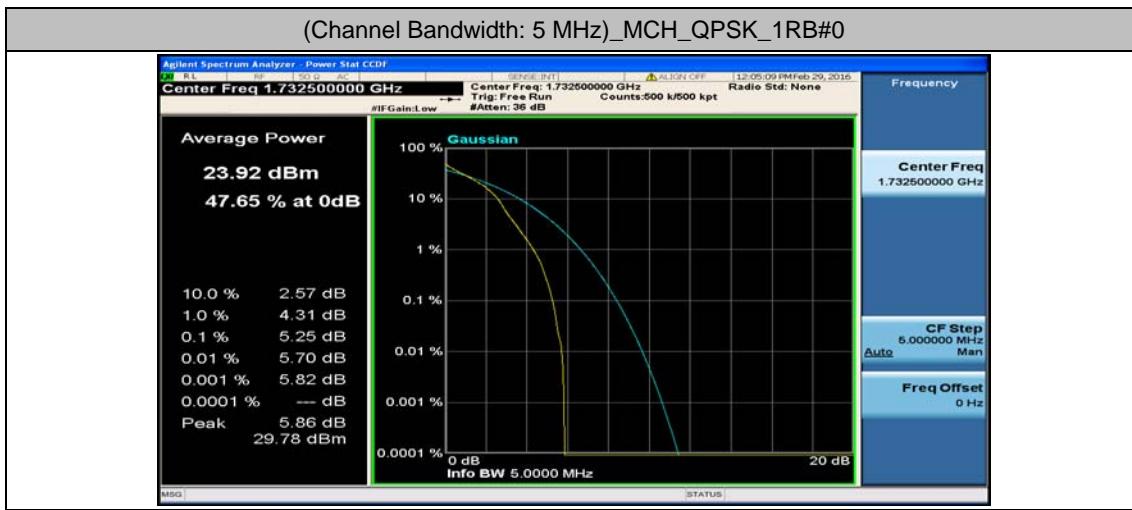
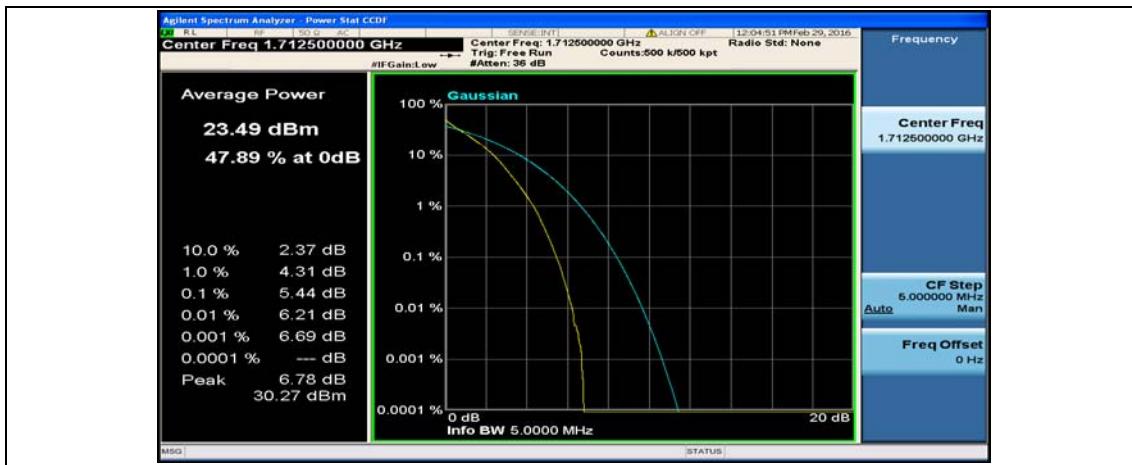




Channel Bandwidth: 5 MHz







(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

