

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	22.88	PASS
		1	3	22.87	PASS
		1	5	22.89	PASS
		3	0	21.96	PASS
		3	2	21.92	PASS
		3	3	21.96	PASS
		6	0	20.90	PASS
	MCH	1	0	22.92	PASS
		1	3	22.89	PASS
		1	5	22.92	PASS
		3	0	21.90	PASS
		3	2	21.92	PASS
		3	3	21.83	PASS
		6	0	20.90	PASS
	HCH	1	0	21.88	PASS
		1	3	21.65	PASS
		1	5	21.83	PASS
		3	0	21.65	PASS
		3	2	21.57	PASS
		3	3	21.59	PASS
		6	0	20.77	PASS
16QAM	LCH	1	0	22.09	PASS
		1	3	22.14	PASS
		1	5	22.11	PASS
		3	0	22.08	PASS
		3	2	22.00	PASS
		3	3	22.02	PASS
		6	0	20.85	PASS
	MCH	1	0	22.12	PASS
		1	3	22.19	PASS
		1	5	22.09	PASS
		3	0	22.10	PASS
		3	2	22.03	PASS

		3	3	22.05	PASS
		6	0	20.85	PASS
HCH	HCH	1	0	21.32	PASS
		1	3	21.16	PASS
		1	5	21.34	PASS
		3	0	20.82	PASS
		3	2	20.78	PASS
		3	3	20.79	PASS
		6	0	20.90	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.81	PASS
		1	7	22.89	PASS
		1	14	22.85	PASS
		8	0	21.91	PASS
		8	4	21.93	PASS
		8	7	21.94	PASS
		15	0	21.92	PASS
	MCH	1	0	22.88	PASS
		1	7	22.73	PASS
		1	14	22.69	PASS
		8	0	21.92	PASS
		8	4	21.90	PASS
		8	7	21.89	PASS
		15	0	21.91	PASS
	HCH	1	0	21.96	PASS
		1	7	21.70	PASS
		1	14	21.61	PASS
		8	0	20.86	PASS
		8	4	20.80	PASS
		8	7	20.74	PASS
		15	0	20.80	PASS
16QAM	LCH	1	0	22.08	PASS
		1	7	22.15	PASS
		1	14	22.10	PASS
		8	0	20.96	PASS
		8	4	20.99	PASS
		8	7	20.96	PASS
		15	0	20.88	PASS
	MCH	1	0	22.16	PASS

		1	7	22.11	PASS
		1	14	22.02	PASS
		8	0	20.98	PASS
		8	4	21.00	PASS
		8	7	20.94	PASS
		15	0	20.88	PASS
HCH		1	0	21.43	PASS
		1	7	21.17	PASS
		1	14	21.14	PASS
		8	0	21.03	PASS
		8	4	20.99	PASS
		8	7	20.98	PASS
		15	0	20.97	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.94	PASS
		1	12	22.75	PASS
		1	24	22.99	PASS
		12	0	22.00	PASS
		12	6	21.99	PASS
		12	13	22.04	PASS
		25	0	21.95	PASS
	MCH	1	0	23.01	PASS
		1	12	22.64	PASS
		1	24	22.82	PASS
		12	0	21.80	PASS
		12	6	21.72	PASS
		12	13	21.79	PASS
		25	0	21.81	PASS
	HCH	1	0	22.44	PASS
		1	12	21.79	PASS
		1	24	21.98	PASS
		12	0	21.13	PASS
		12	6	20.91	PASS
		12	13	20.89	PASS
		25	0	21.03	PASS
16QAM	LCH	1	0	22.32	PASS
		1	12	22.29	PASS
		1	24	22.36	PASS
		12	0	21.11	PASS

		12	6	21.11	PASS
		12	13	21.16	PASS
		25	0	20.97	PASS
MCH		1	0	22.12	PASS
		1	12	22.10	PASS
		1	24	22.17	PASS
		12	0	21.15	PASS
		12	6	21.05	PASS
		12	13	21.05	PASS
		25	0	20.95	PASS
		1	0	21.50	PASS
HCH		1	12	20.99	PASS
		1	24	21.07	PASS
		12	0	20.86	PASS
		12	6	20.68	PASS
		12	13	20.68	PASS
		25	0	20.71	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.91	PASS
		1	24	23.02	PASS
		1	49	22.55	PASS
		25	0	22.01	PASS
		25	12	22.04	PASS
		25	25	22.09	PASS
		50	0	22.06	PASS
	MCH	1	0	22.51	PASS
		1	24	22.80	PASS
		1	49	22.18	PASS
		25	0	21.76	PASS
		25	12	21.80	PASS
		25	25	21.86	PASS
		50	0	21.81	PASS
	HCH	1	0	22.30	PASS
		1	24	22.18	PASS
		1	49	21.96	PASS
		25	0	21.46	PASS
		25	12	21.27	PASS
		25	25	20.96	PASS
		50	0	21.21	PASS

16QAM	LCH	1	0	22.19	PASS
		1	24	22.29	PASS
		1	49	22.00	PASS
		25	0	21.00	PASS
		25	12	21.05	PASS
		25	25	21.08	PASS
		50	0	21.04	PASS
	MCH	1	0	21.94	PASS
		1	24	22.14	PASS
		1	49	21.61	PASS
		25	0	20.97	PASS
		25	12	20.95	PASS
		25	25	20.84	PASS
		50	0	20.92	PASS
	HCH	1	0	21.79	PASS
		1	24	21.71	PASS
		1	49	21.94	PASS
		25	0	20.84	PASS
		25	12	20.79	PASS
		25	25	20.61	PASS
		50	0	20.53	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.92	PASS
		1	37	22.93	PASS
		1	74	22.55	PASS
		37	0	22.09	PASS
		37	18	22.00	PASS
		37	38	21.81	PASS
		75	0	22.02	PASS
	MCH	1	0	22.83	PASS
		1	37	22.64	PASS
		1	74	22.19	PASS
		37	0	21.70	PASS
		37	18	21.63	PASS
		37	38	21.55	PASS
		75	0	21.67	PASS
	HCH	1	0	22.49	PASS
		1	37	22.12	PASS
		1	74	21.73	PASS

		37	0	21.57	PASS
		37	18	21.38	PASS
		37	38	21.00	PASS
		75	0	21.38	PASS
16QAM	LCH	1	0	22.20	PASS
		1	37	22.29	PASS
		1	74	21.94	PASS
		37	0	21.03	PASS
		37	18	21.08	PASS
		37	38	21.05	PASS
		75	0	21.12	PASS
	MCH	1	0	22.21	PASS
		1	37	21.97	PASS
		1	74	21.65	PASS
		37	0	20.84	PASS
		37	18	20.81	PASS
		37	38	20.77	PASS
		75	0	20.81	PASS
	HCH	1	0	21.88	PASS
		1	37	21.57	PASS
		1	74	20.93	PASS
		37	0	20.84	PASS
		37	18	20.75	PASS
		37	38	20.76	PASS
		75	0	20.69	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.04	PASS
		1	49	22.91	PASS
		1	99	22.44	PASS
		50	0	22.39	PASS
		50	25	21.86	PASS
		50	50	21.58	PASS
		100	0	21.89	PASS
	MCH	1	0	23.02	PASS
		1	49	22.76	PASS
		1	99	22.08	PASS
		50	0	21.70	PASS
		50	25	21.63	PASS
		50	50	21.49	PASS

		100	0	21.66	PASS
HCH	LCH	1	0	22.86	PASS
		1	49	22.32	PASS
		1	99	21.93	PASS
		50	0	21.65	PASS
		50	25	21.47	PASS
		50	50	21.11	PASS
		100	0	21.52	PASS
		1	0	22.23	PASS
16QAM	MCH	1	49	22.16	PASS
		1	99	21.60	PASS
		50	0	21.06	PASS
		50	25	21.02	PASS
		50	50	20.79	PASS
		100	0	21.02	PASS
		1	0	22.15	PASS
		1	49	21.99	PASS
	HCH	1	99	21.35	PASS
		50	0	20.88	PASS
		50	25	20.80	PASS
		50	50	20.72	PASS
		100	0	20.83	PASS
		1	0	22.22	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	4.59	<13	PASS
		1	3	4.64	<13	PASS
		1	5	4.73	<13	PASS
		3	0	4.53	<13	PASS
		3	2	4.61	<13	PASS
		3	3	4.62	<13	PASS
		6	0	5.29	<13	PASS
	MCH	1	0	4.74	<13	PASS
		1	3	4.68	<13	PASS
		1	5	4.71	<13	PASS
		3	0	4.83	<13	PASS
		3	2	4.88	<13	PASS
		3	3	4.8	<13	PASS
		6	0	5.39	<13	PASS
16QAM	LCH	1	0	4.2	<13	PASS
		1	3	4.32	<13	PASS
		1	5	4.39	<13	PASS
		3	0	4.34	<13	PASS
		3	2	4.41	<13	PASS
		3	3	4.44	<13	PASS
		6	0	5.02	<13	PASS
	MCH	1	0	5.51	<13	PASS
		1	3	5.44	<13	PASS
		1	5	5.61	<13	PASS
		3	0	5.55	<13	PASS
		3	2	5.68	<13	PASS
		3	3	5.68	<13	PASS
		6	0	5.85	<13	PASS

		3	3	5.89	<13	PASS
		6	0	6.05	<13	PASS
HCH		1	0	5.15	<13	PASS
		1	3	5.27	<13	PASS
		1	5	5.26	<13	PASS
		3	0	5.11	<13	PASS
		3	2	5.12	<13	PASS
		3	3	5.13	<13	PASS
		6	0	5.61	<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	4.53	<13	PASS
		1	7	4.8	<13	PASS
		1	14	4.98	<13	PASS
		8	0	5.26	<13	PASS
		8	4	5.35	<13	PASS
		8	7	5.52	<13	PASS
		15	0	5.4	<13	PASS
	MCH	1	0	4.86	<13	PASS
		1	7	4.9	<13	PASS
		1	14	4.75	<13	PASS
		8	0	5.32	<13	PASS
		8	4	5.39	<13	PASS
		8	7	5.36	<13	PASS
		15	0	5.34	<13	PASS
	HCH	1	0	4.04	<13	PASS
		1	7	4.07	<13	PASS
		1	14	4.29	<13	PASS
		8	0	4.88	<13	PASS
		8	4	4.93	<13	PASS
		8	7	4.99	<13	PASS
		15	0	5.03	<13	PASS
16QAM	LCH	1	0	5.52	<13	PASS
		1	7	5.74	<13	PASS
		1	14	5.8	<13	PASS
		8	0	5.72	<13	PASS
		8	4	5.85	<13	PASS
		8	7	5.94	<13	PASS

		15	0	6.02	<13	PASS
MCH	1	0		5.95	<13	PASS
	1	7		5.7	<13	PASS
	1	14		5.66	<13	PASS
	8	0		5.88	<13	PASS
	8	4		5.87	<13	PASS
	8	7		5.84	<13	PASS
	15	0		6.03	<13	PASS
HCH	1	0		4.87	<13	PASS
	1	7		4.88	<13	PASS
	1	14		5.24	<13	PASS
	8	0		5.38	<13	PASS
	8	4		5.46	<13	PASS
	8	7		5.47	<13	PASS
	15	0		5.54	<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	4.37	<13	PASS
		1	12	4.7	<13	PASS
		1	24	5.05	<13	PASS
		12	0	5.36	<13	PASS
		12	6	5.48	<13	PASS
		12	13	5.61	<13	PASS
		25	0	5.57	<13	PASS
QPSK	MCH	1	0	4.69	<13	PASS
		1	12	4.56	<13	PASS
		1	24	4.5	<13	PASS
		12	0	5.35	<13	PASS
		12	6	5.28	<13	PASS
		12	13	5.28	<13	PASS
		25	0	5.36	<13	PASS
QPSK	HCH	1	0	4.04	<13	PASS
		1	12	4.43	<13	PASS
		1	24	4.64	<13	PASS
		12	0	4.91	<13	PASS
		12	6	5.06	<13	PASS
		12	13	5.24	<13	PASS
		25	0	5.04	<13	PASS

16QAM	LCH	1	0	5.28	<13	PASS
		1	12	5.67	<13	PASS
		1	24	5.89	<13	PASS
		12	0	5.95	<13	PASS
		12	6	6.07	<13	PASS
		12	13	6.28	<13	PASS
		25	0	6.16	<13	PASS
	MCH	1	0	5.44	<13	PASS
		1	12	5.45	<13	PASS
		1	24	5.37	<13	PASS
		12	0	5.87	<13	PASS
		12	6	6	<13	PASS
		12	13	5.91	<13	PASS
		25	0	5.99	<13	PASS
	HCH	1	0	4.82	<13	PASS
		1	12	4.98	<13	PASS
		1	24	5.22	<13	PASS
		12	0	5.47	<13	PASS
		12	6	5.55	<13	PASS
		12	13	5.71	<13	PASS
		25	0	5.53	<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	4.48	<13	PASS
		1	24	5.34	<13	PASS
		1	49	5.61	<13	PASS
		25	0	5.49	<13	PASS
		25	12	5.77	<13	PASS
		25	25	5.86	<13	PASS
		50	0	5.7	<13	PASS
	MCH	1	0	4.95	<13	PASS
		1	24	4.6	<13	PASS
		1	49	4.73	<13	PASS
		25	0	5.36	<13	PASS
		25	12	5.31	<13	PASS
		25	25	5.26	<13	PASS
		50	0	5.31	<13	PASS
	HCH	1	0	4.05	<13	PASS

		1	24	4	<13	PASS
		1	49	4.88	<13	PASS
		25	0	4.9	<13	PASS
		25	12	4.9	<13	PASS
		25	25	5.12	<13	PASS
		50	0	4.95	<13	PASS
16QAM	LCH	1	0	5.42	<13	PASS
		1	24	6.2	<13	PASS
		1	49	6.35	<13	PASS
		25	0	6.19	<13	PASS
		25	12	6.51	<13	PASS
		25	25	6.51	<13	PASS
		50	0	6.3	<13	PASS
	MCH	1	0	5.9	<13	PASS
		1	24	5.57	<13	PASS
		1	49	5.62	<13	PASS
		25	0	5.99	<13	PASS
		25	12	5.88	<13	PASS
		25	25	5.84	<13	PASS
		50	0	5.87	<13	PASS
	HCH	1	0	5.03	<13	PASS
		1	24	4.94	<13	PASS
		1	49	5.61	<13	PASS
		25	0	5.53	<13	PASS
		25	12	5.43	<13	PASS
		25	25	5.64	<13	PASS
		50	0	5.45	<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	4.54	<13	PASS
		1	37	5.54	<13	PASS
		1	74	5.25	<13	PASS
		37	0	5.62	<13	PASS
		37	18	5.83	<13	PASS
		37	38	5.82	<13	PASS
		75	0	6	<13	PASS
	MCH	1	0	5.13	<13	PASS
		1	37	4.77	<13	PASS

		1	74	4.63	<13	PASS
		37	0	5.39	<13	PASS
		37	18	5.22	<13	PASS
		37	38	5.19	<13	PASS
		75	0	5.62	<13	PASS
	HCH	1	0	4.46	<13	PASS
		1	37	4.41	<13	PASS
		1	74	5.04	<13	PASS
		37	0	4.91	<13	PASS
		37	18	4.91	<13	PASS
		37	38	5.07	<13	PASS
		75	0	5.34	<13	PASS
16QAM	LCH	1	0	5.42	<13	PASS
		1	37	6.47	<13	PASS
		1	74	6.18	<13	PASS
		37	0	6.23	<13	PASS
		37	18	6.46	<13	PASS
		37	38	6.54	<13	PASS
		75	0	6.44	<13	PASS
	MCH	1	0	5.98	<13	PASS
		1	37	5.74	<13	PASS
		1	74	5.57	<13	PASS
		37	0	6.01	<13	PASS
		37	18	5.87	<13	PASS
		37	38	5.78	<13	PASS
		75	0	6.04	<13	PASS
	HCH	1	0	5.44	<13	PASS
		1	37	5.13	<13	PASS
		1	74	5.81	<13	PASS
		37	0	5.58	<13	PASS
		37	18	5.48	<13	PASS
		37	38	5.54	<13	PASS
		75	0	5.7	<13	PASS

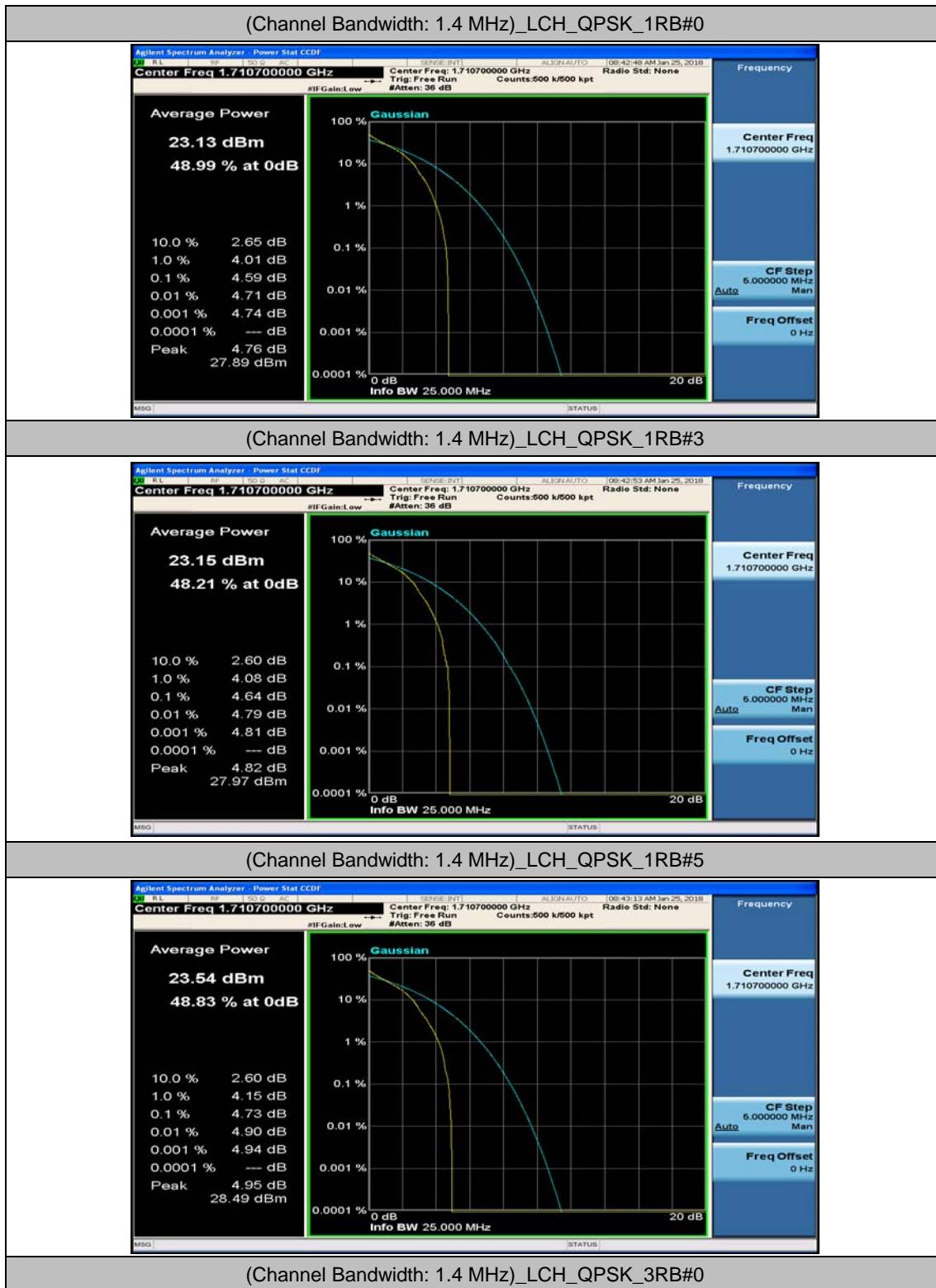
Channel Bandwidth: 20 MHz

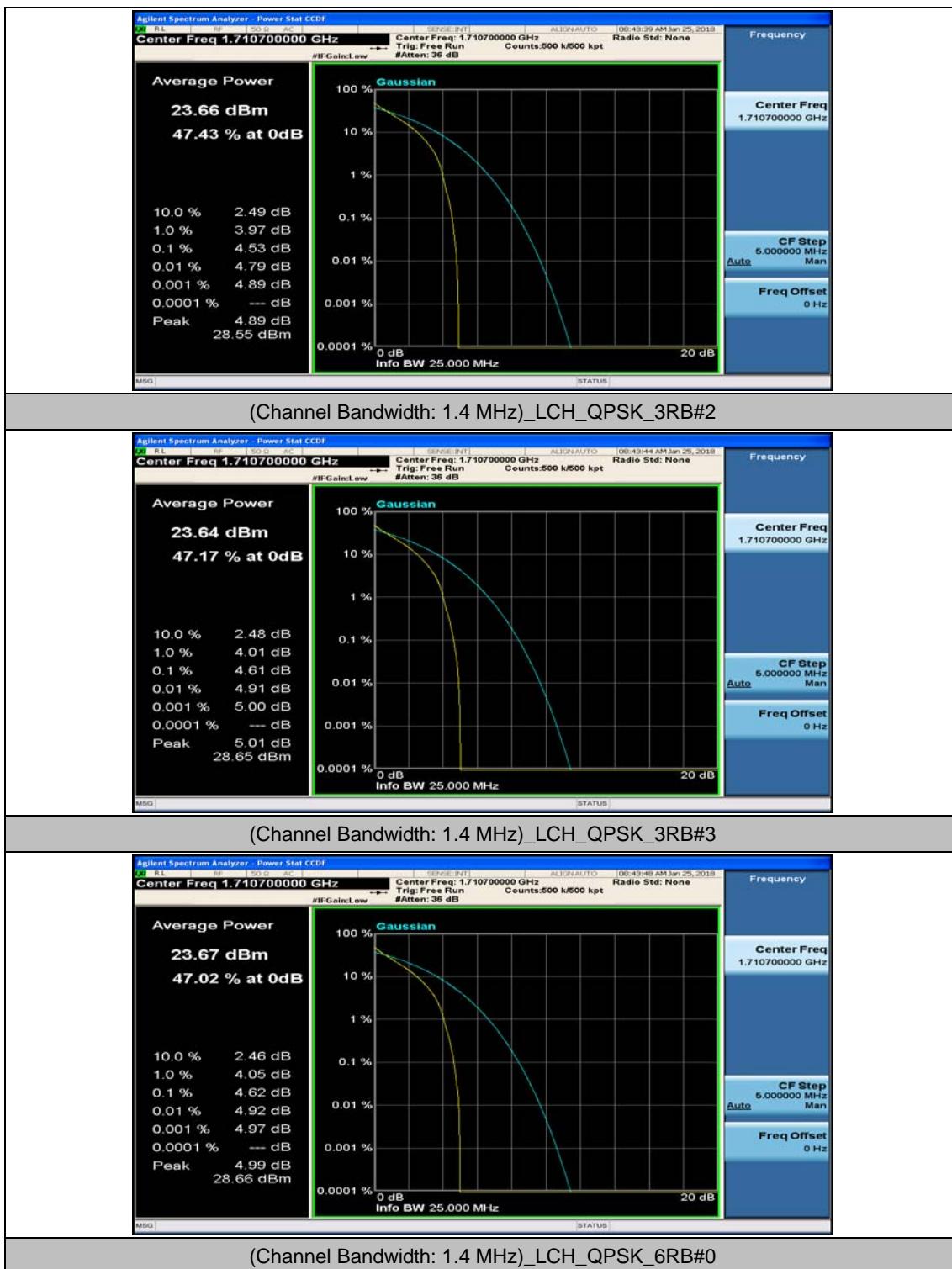
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.47	<13	PASS
		1	49	5.48	<13	PASS
		1	99	4.99	<13	PASS

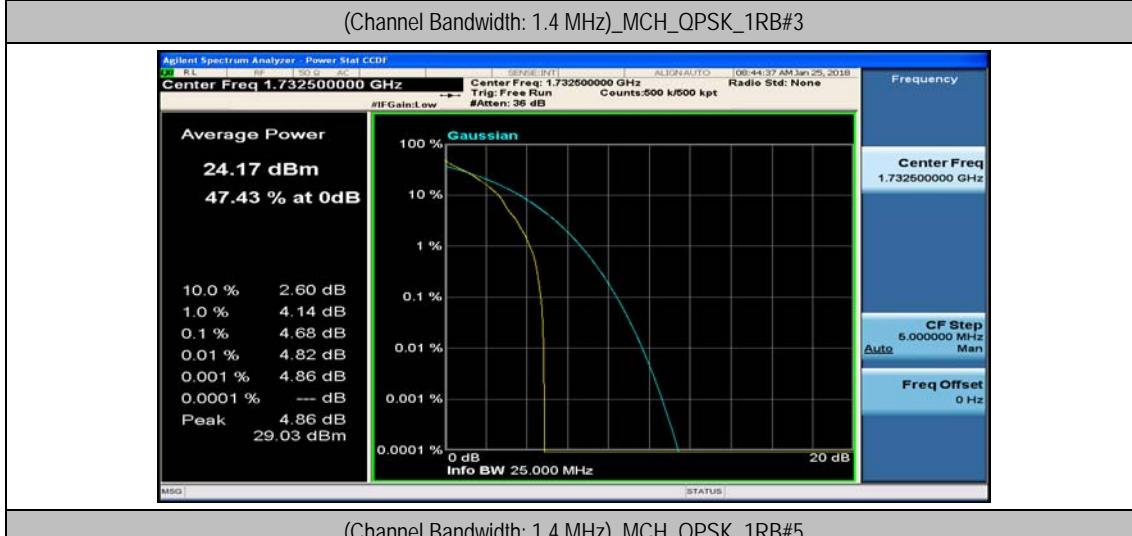
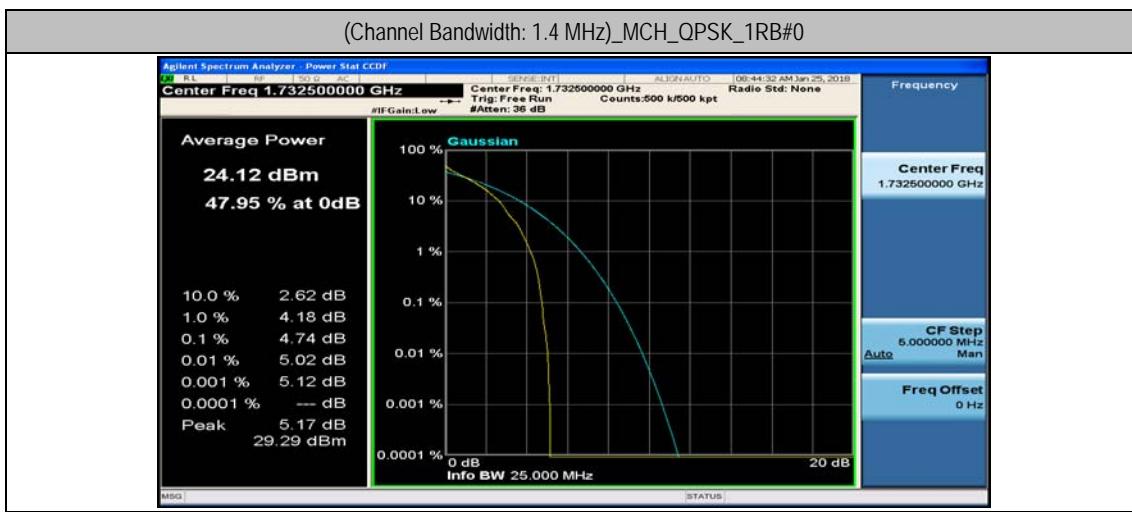
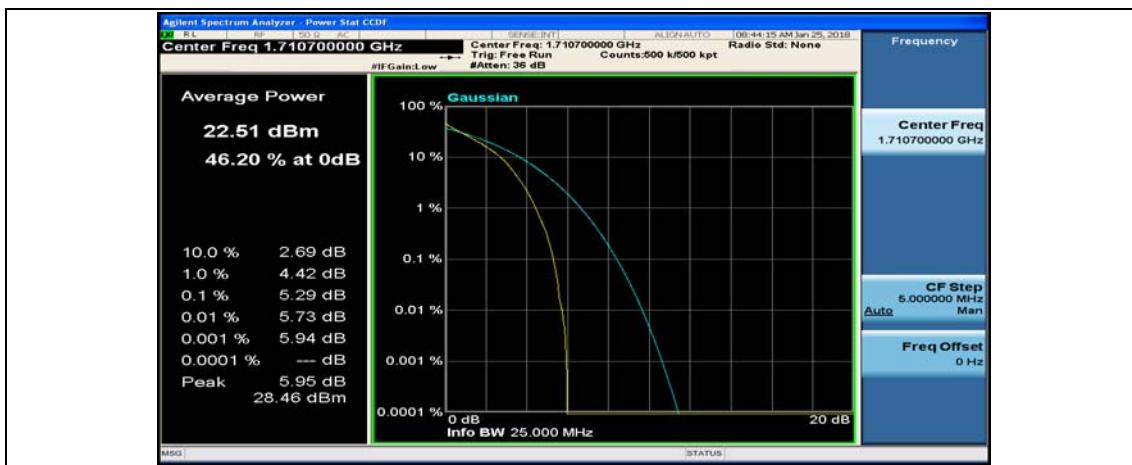
		50	0	5.71	<13	PASS
		50	25	5.87	<13	PASS
		50	50	5.73	<13	PASS
		100	0	5.72	<13	PASS
MCH	MCH	1	0	5.14	<13	PASS
		1	49	4.55	<13	PASS
		1	99	4.68	<13	PASS
		50	0	5.44	<13	PASS
		50	25	5.23	<13	PASS
		50	50	5.27	<13	PASS
		100	0	5.51	<13	PASS
HCH	HCH	1	0	4.66	<13	PASS
		1	49	4.47	<13	PASS
		1	99	5.12	<13	PASS
		50	0	5.16	<13	PASS
		50	25	5.02	<13	PASS
		50	50	5.15	<13	PASS
		100	0	5.32	<13	PASS
LCH	LCH	1	0	5.54	<13	PASS
		1	49	6.17	<13	PASS
		1	99	5.78	<13	PASS
		50	0	6.37	<13	PASS
		50	25	6.49	<13	PASS
		50	50	6.33	<13	PASS
		100	0	6.32	<13	PASS
16QAM	MCH	1	0	6.08	<13	PASS
		1	49	5.41	<13	PASS
		1	99	5.68	<13	PASS
		50	0	6.14	<13	PASS
		50	25	5.89	<13	PASS
		50	50	5.83	<13	PASS
		100	0	6.05	<13	PASS
HCH	HCH	1	0	5.32	<13	PASS
		1	49	5.06	<13	PASS
		1	99	5.76	<13	PASS
		50	0	5.74	<13	PASS
		50	25	5.57	<13	PASS
		50	50	5.63	<13	PASS
		100	0	5.81	<13	PASS

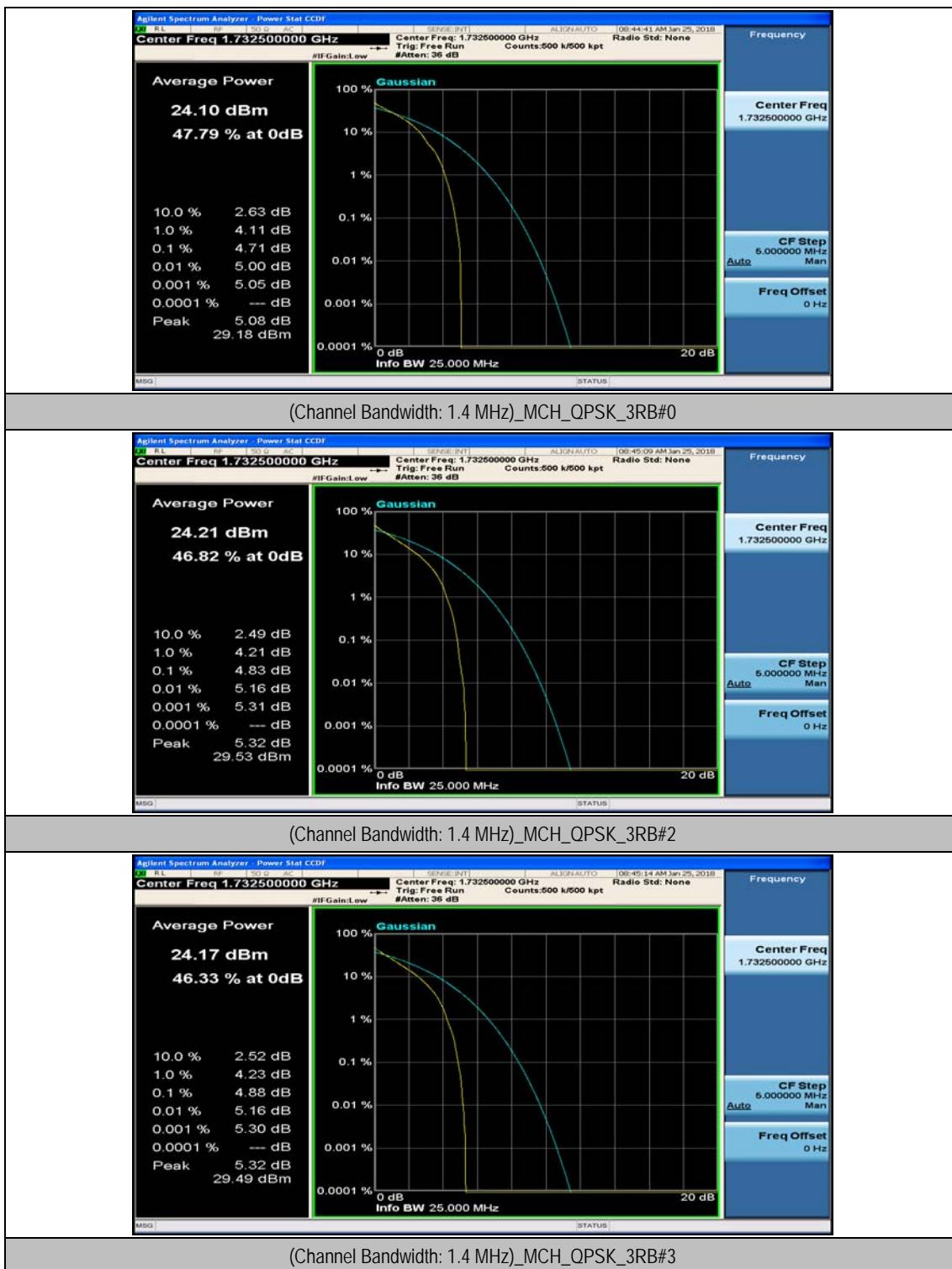
Test Graphs

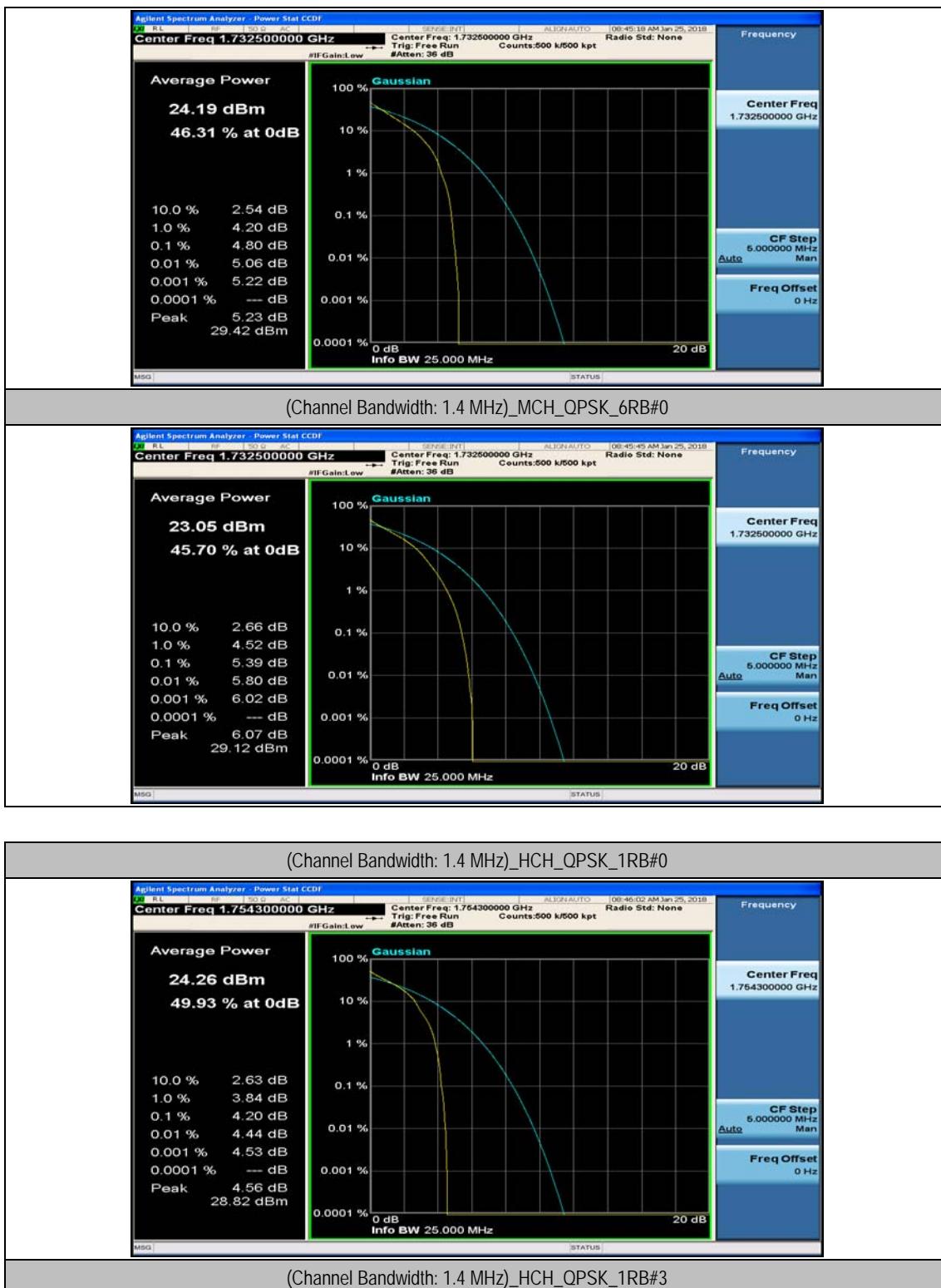
Channel Bandwidth: 1.4 MHz

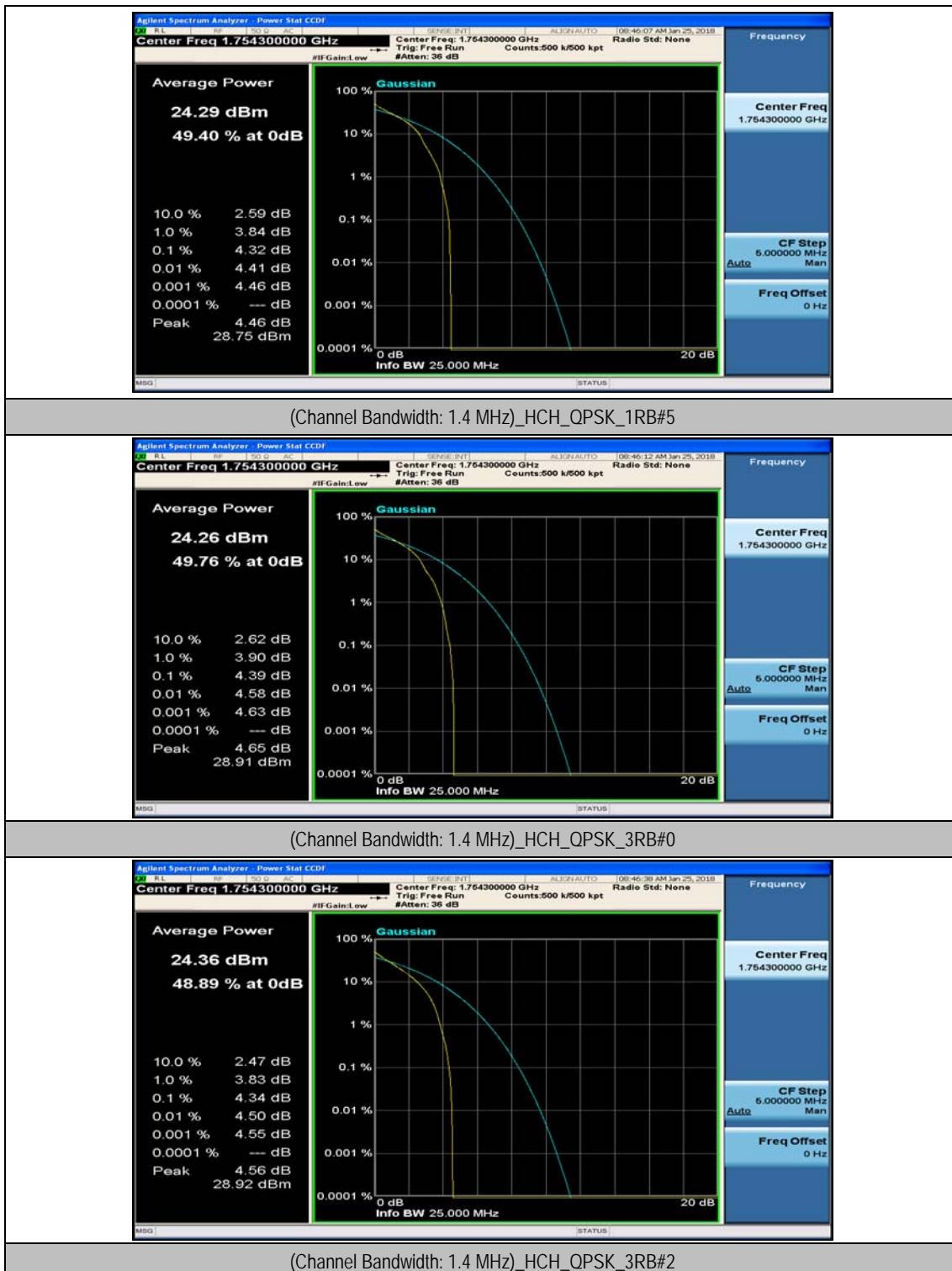


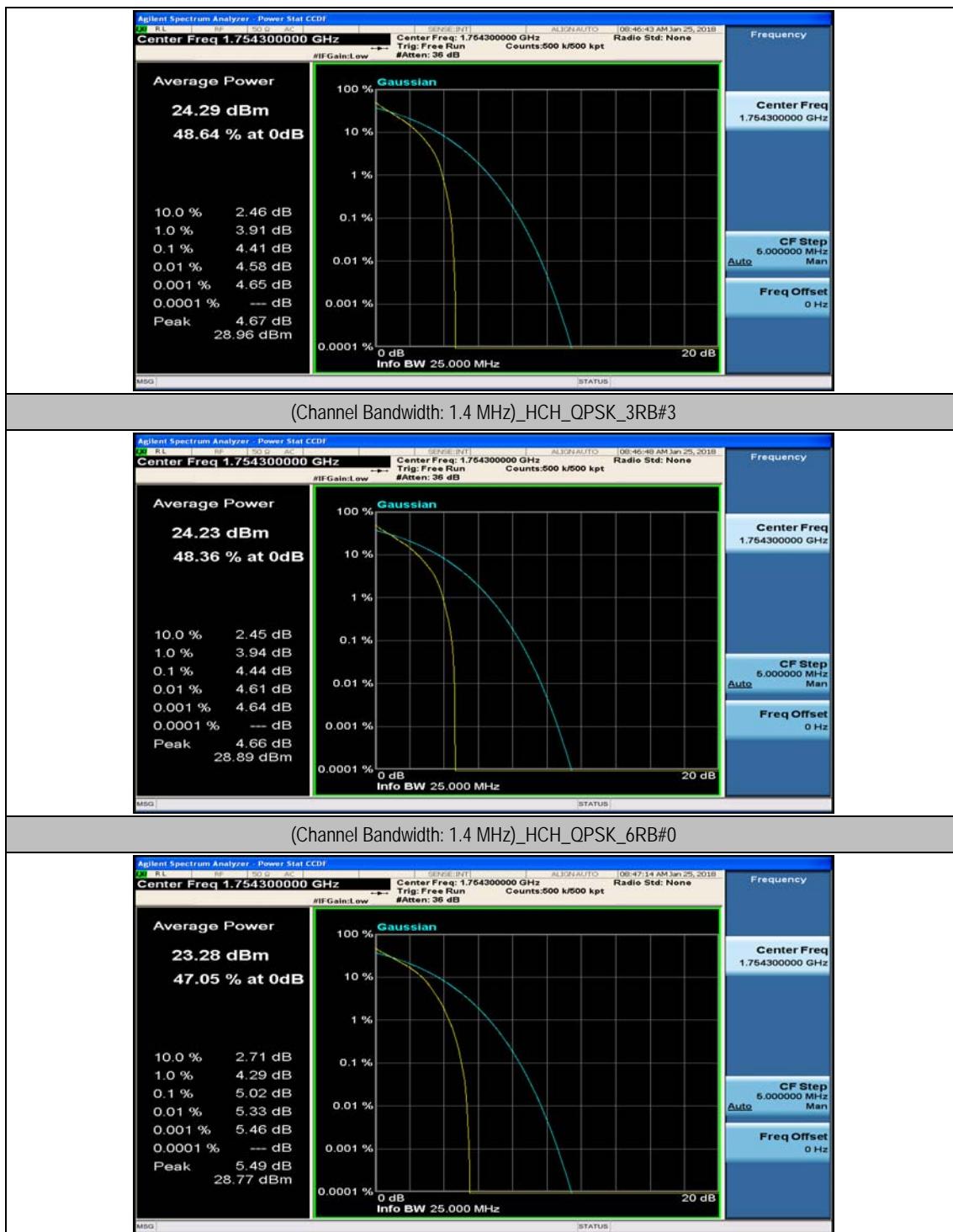


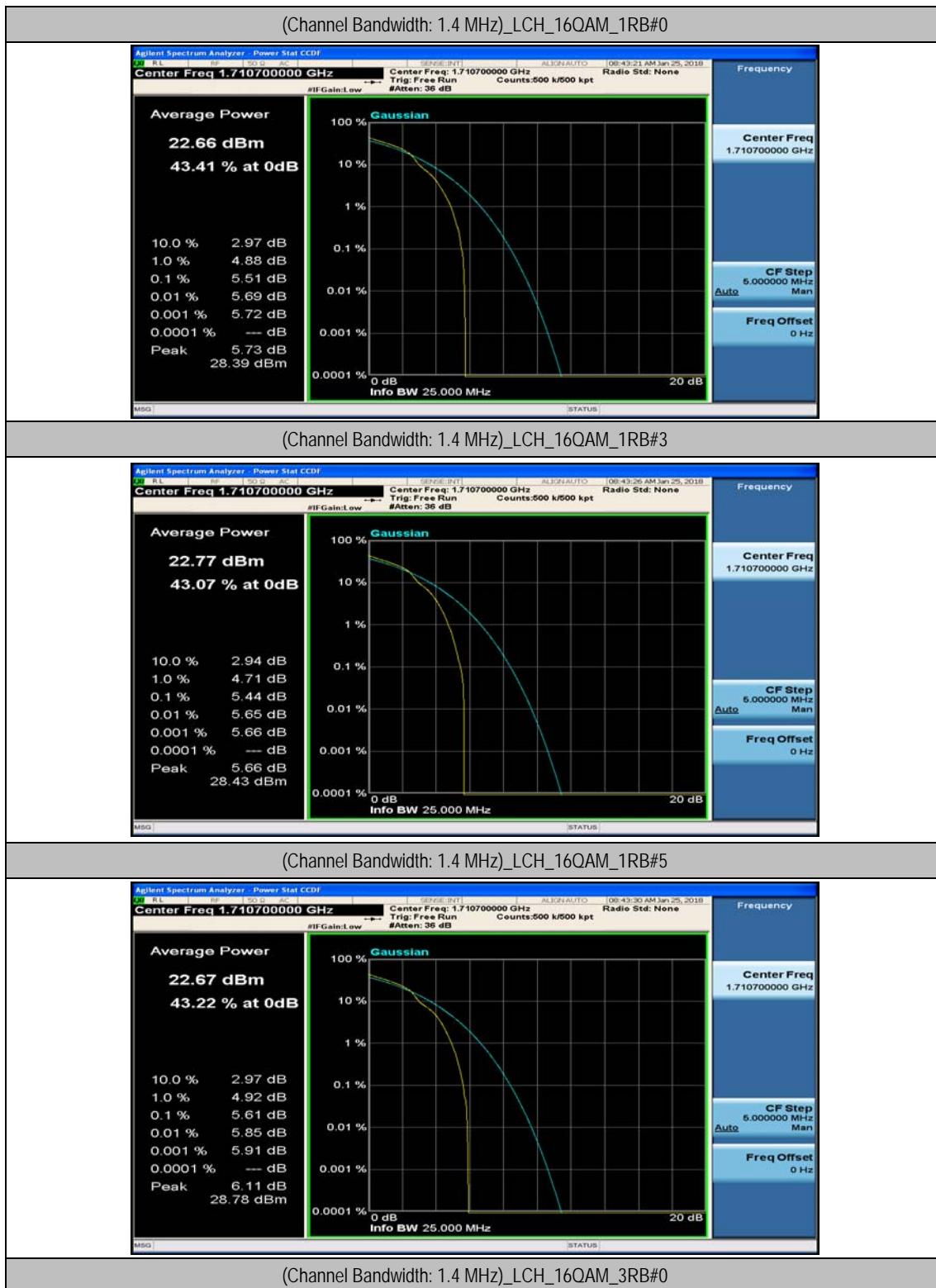


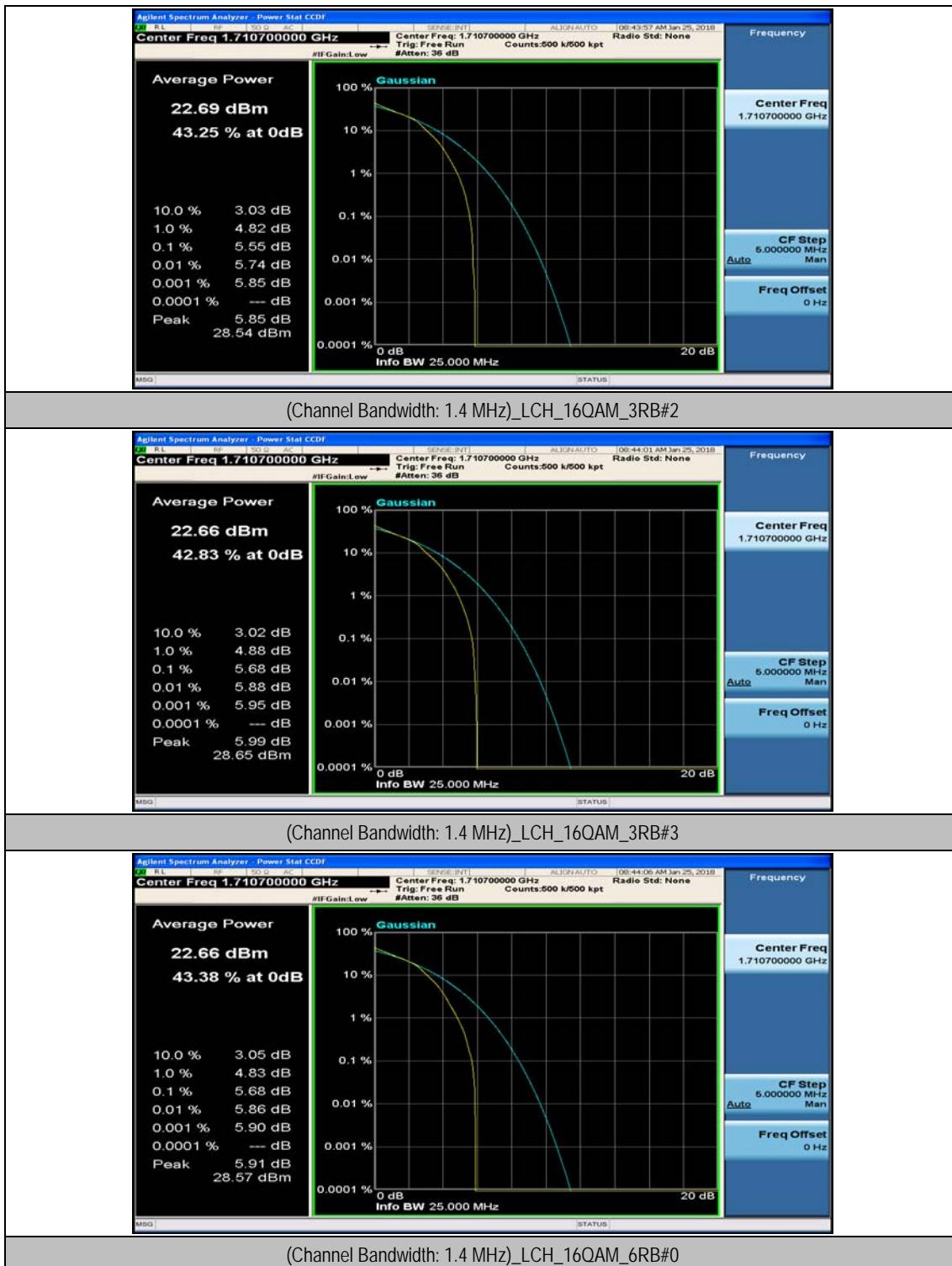


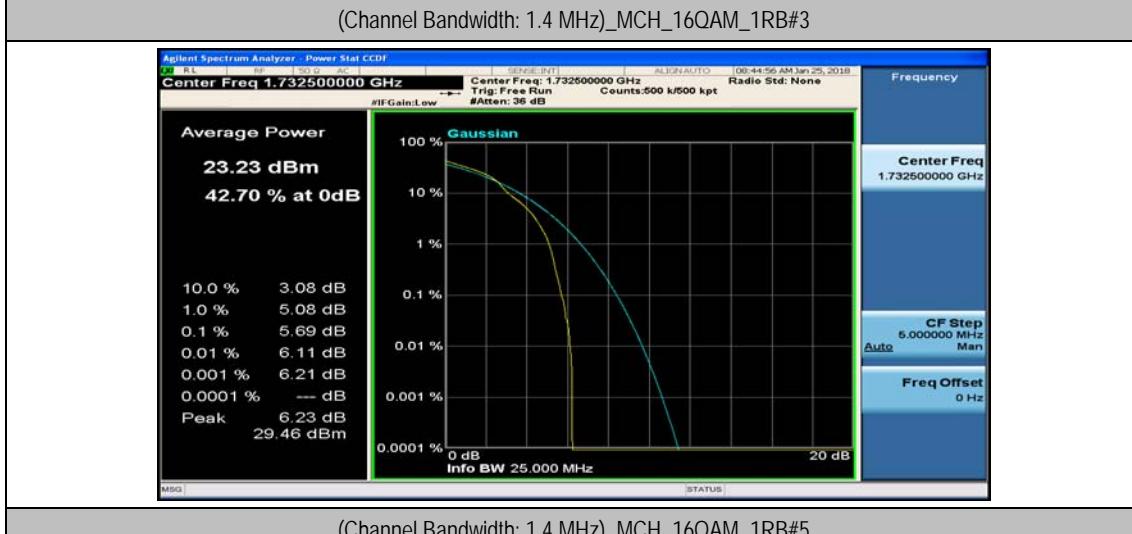
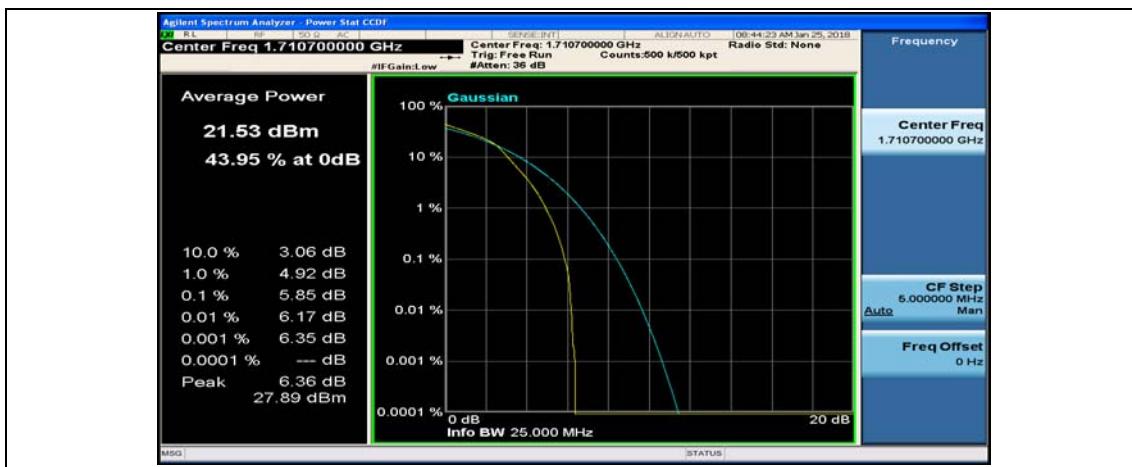


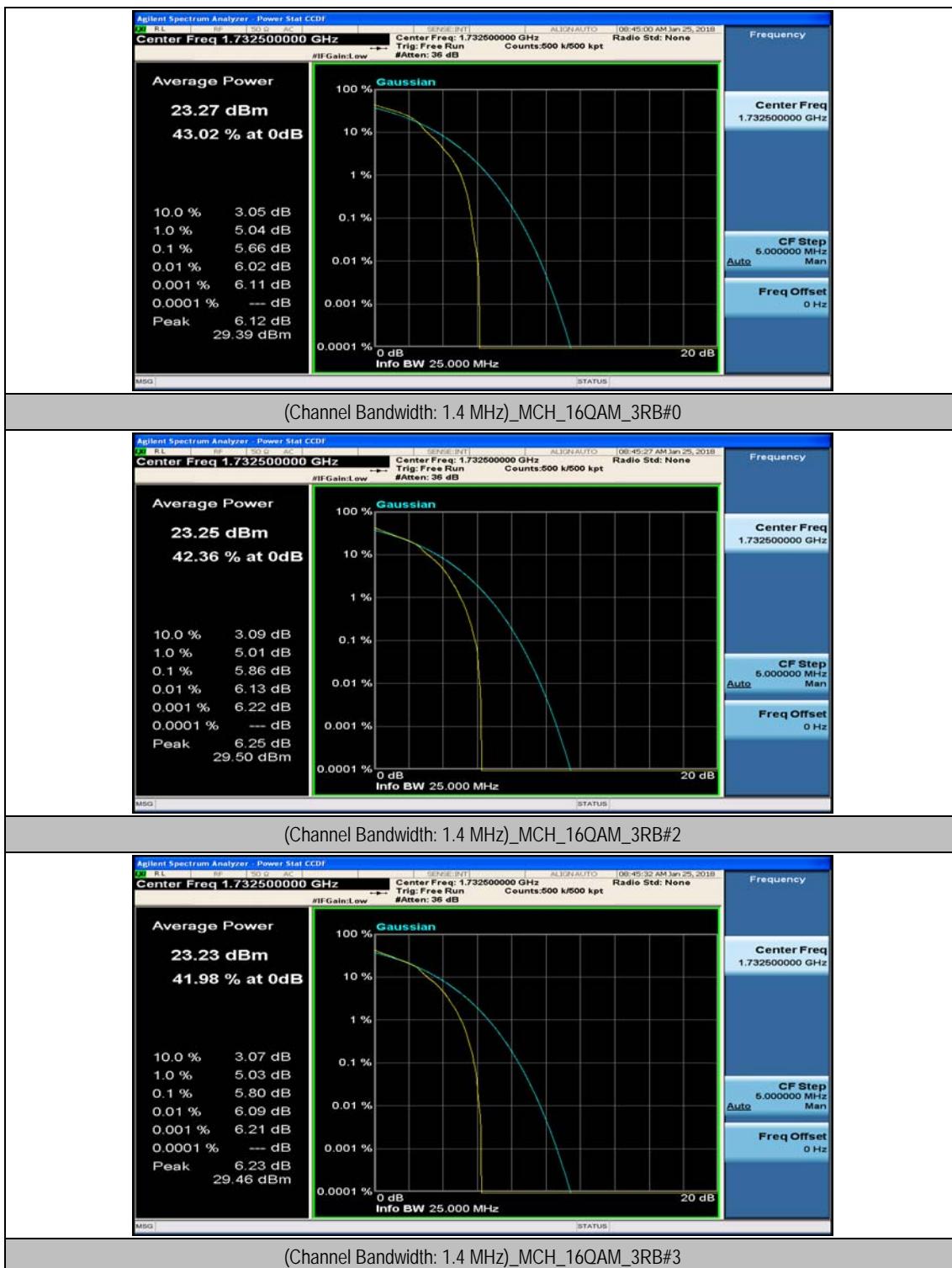


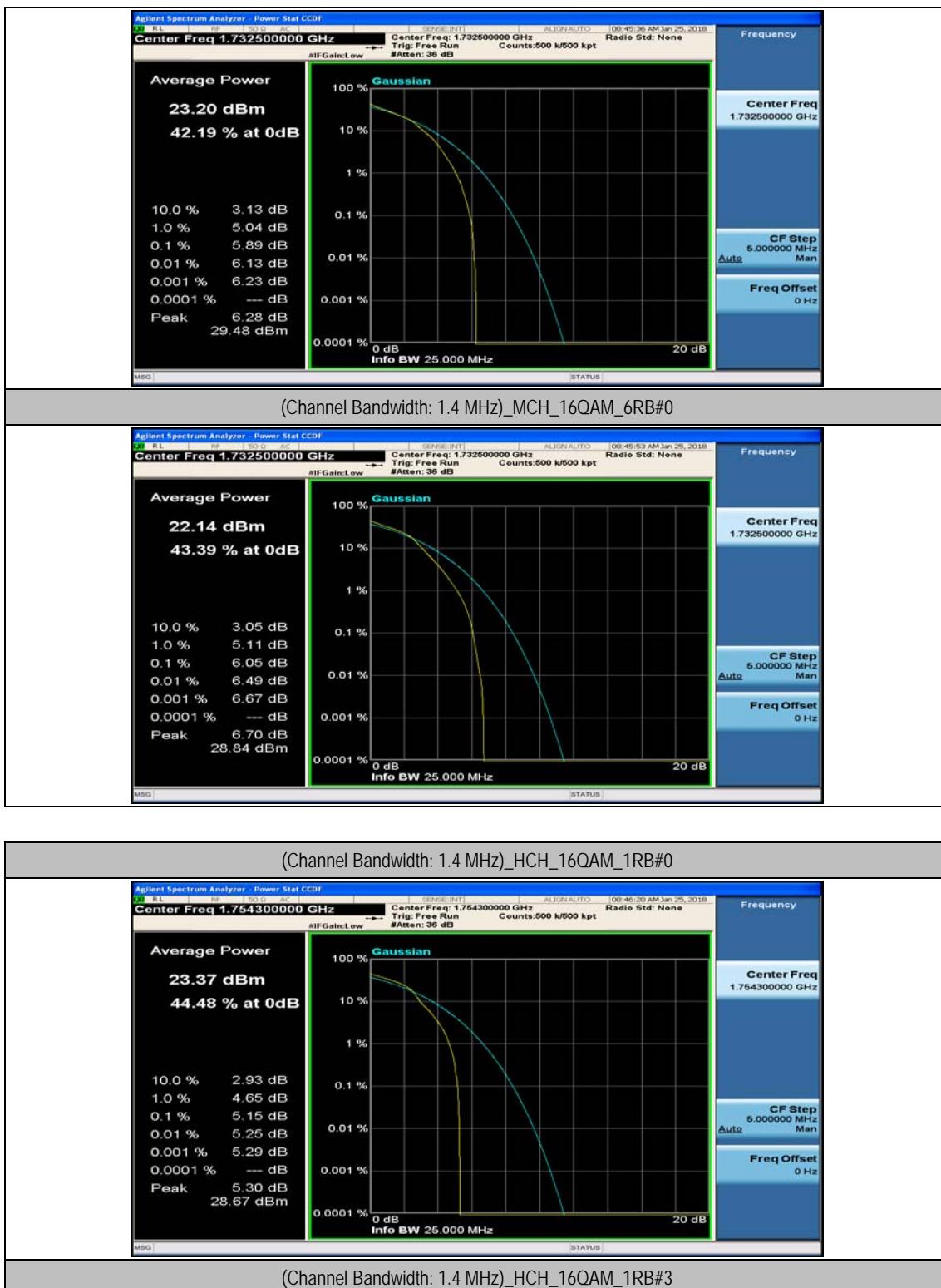


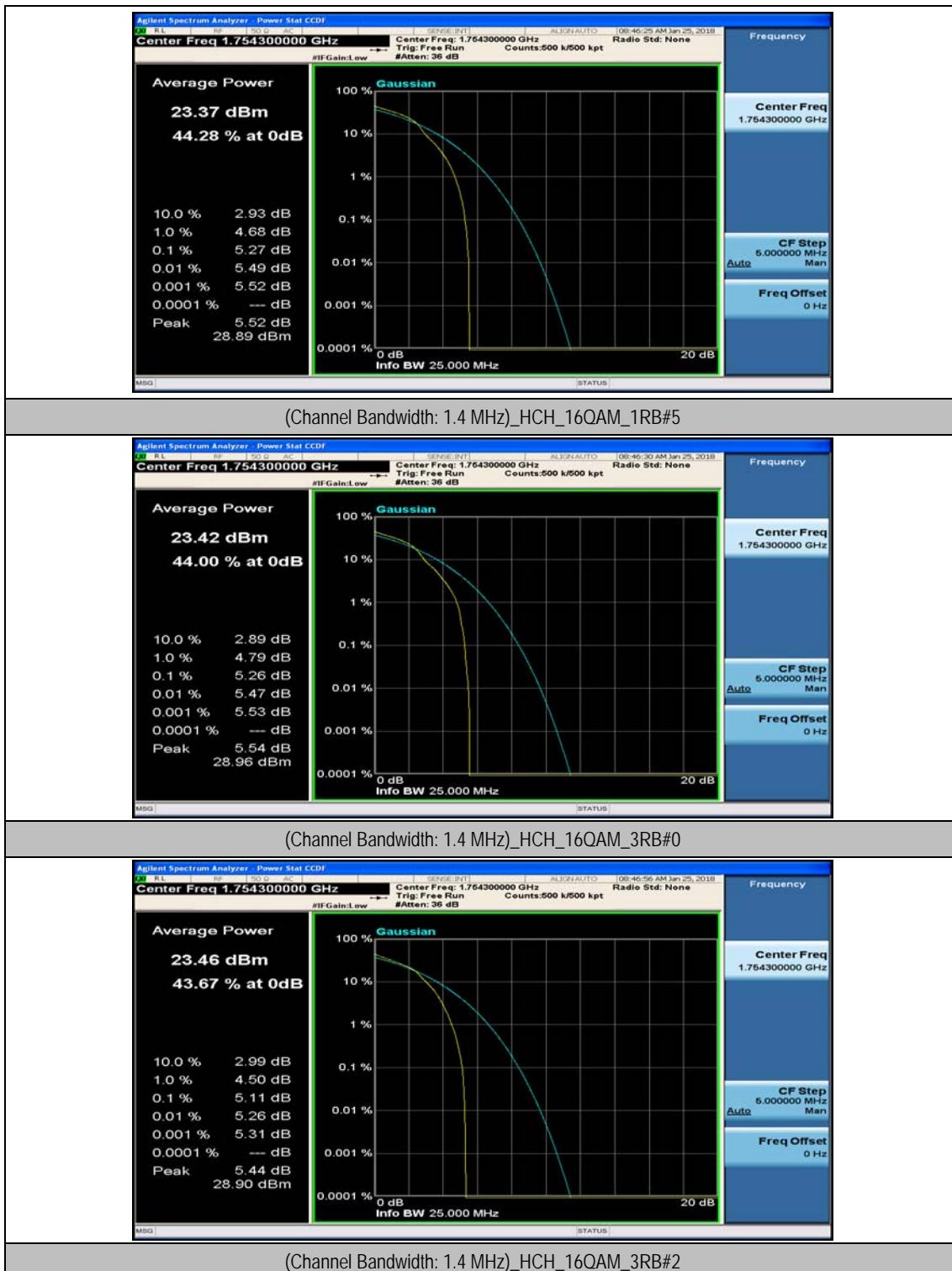


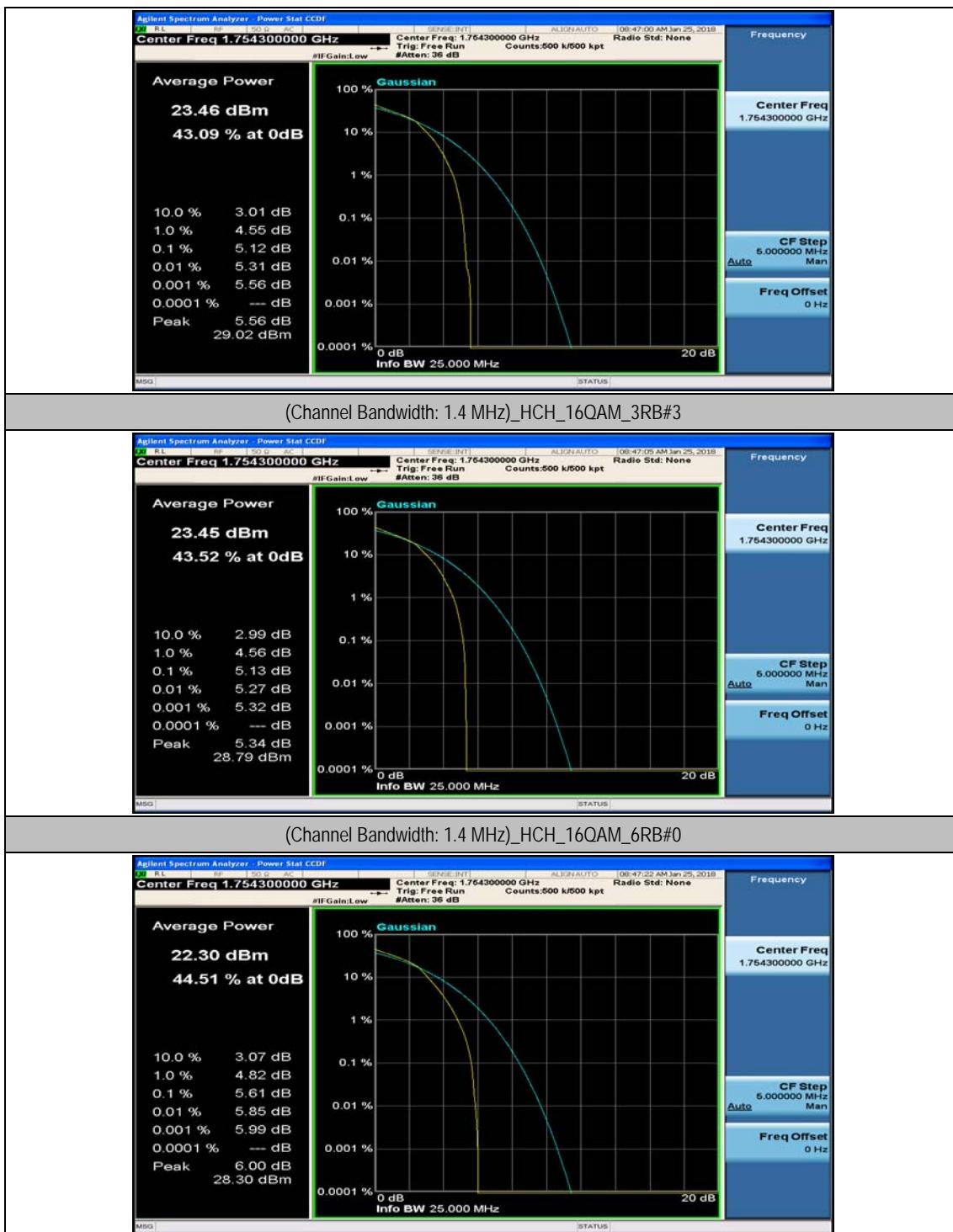




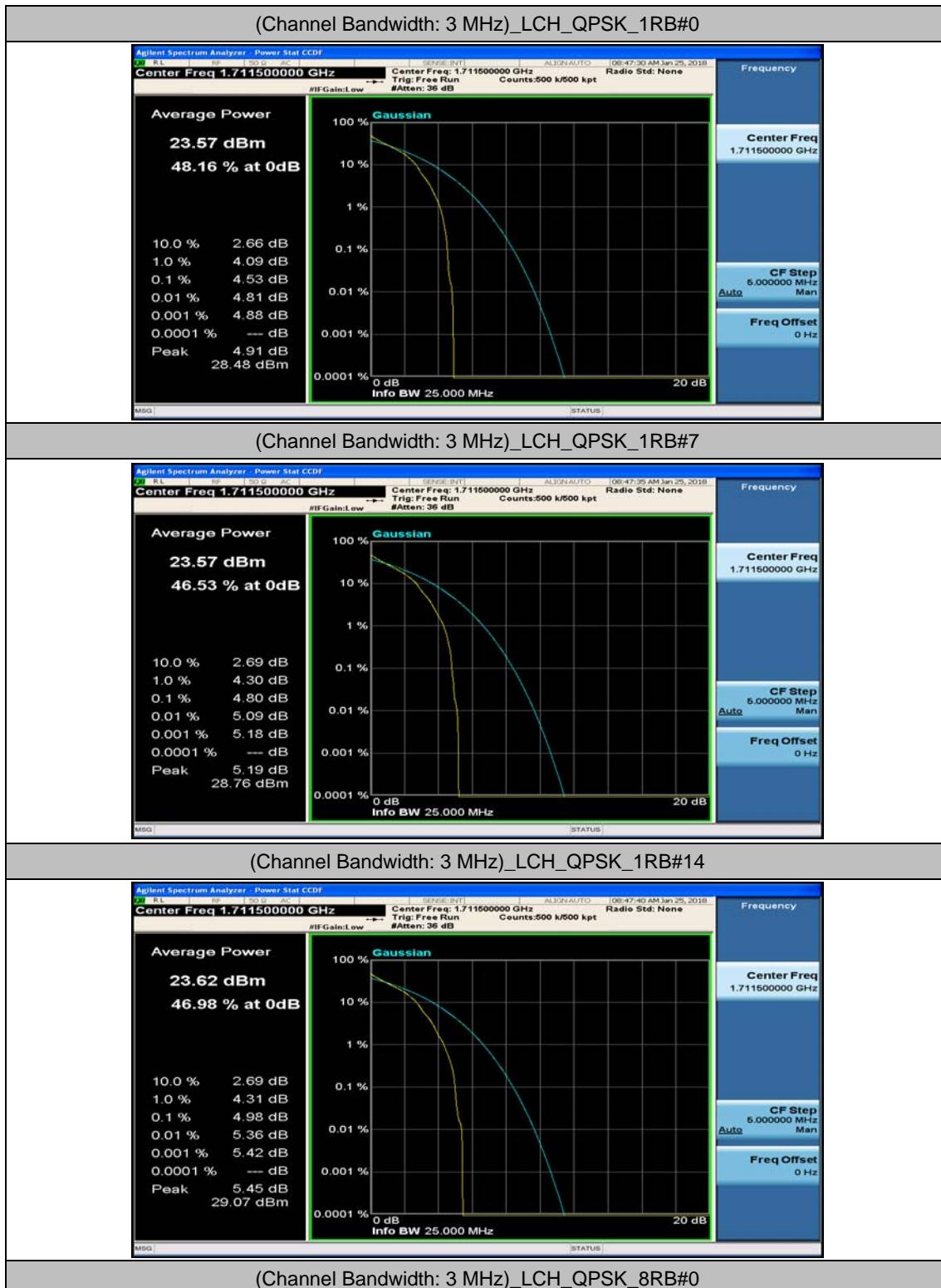


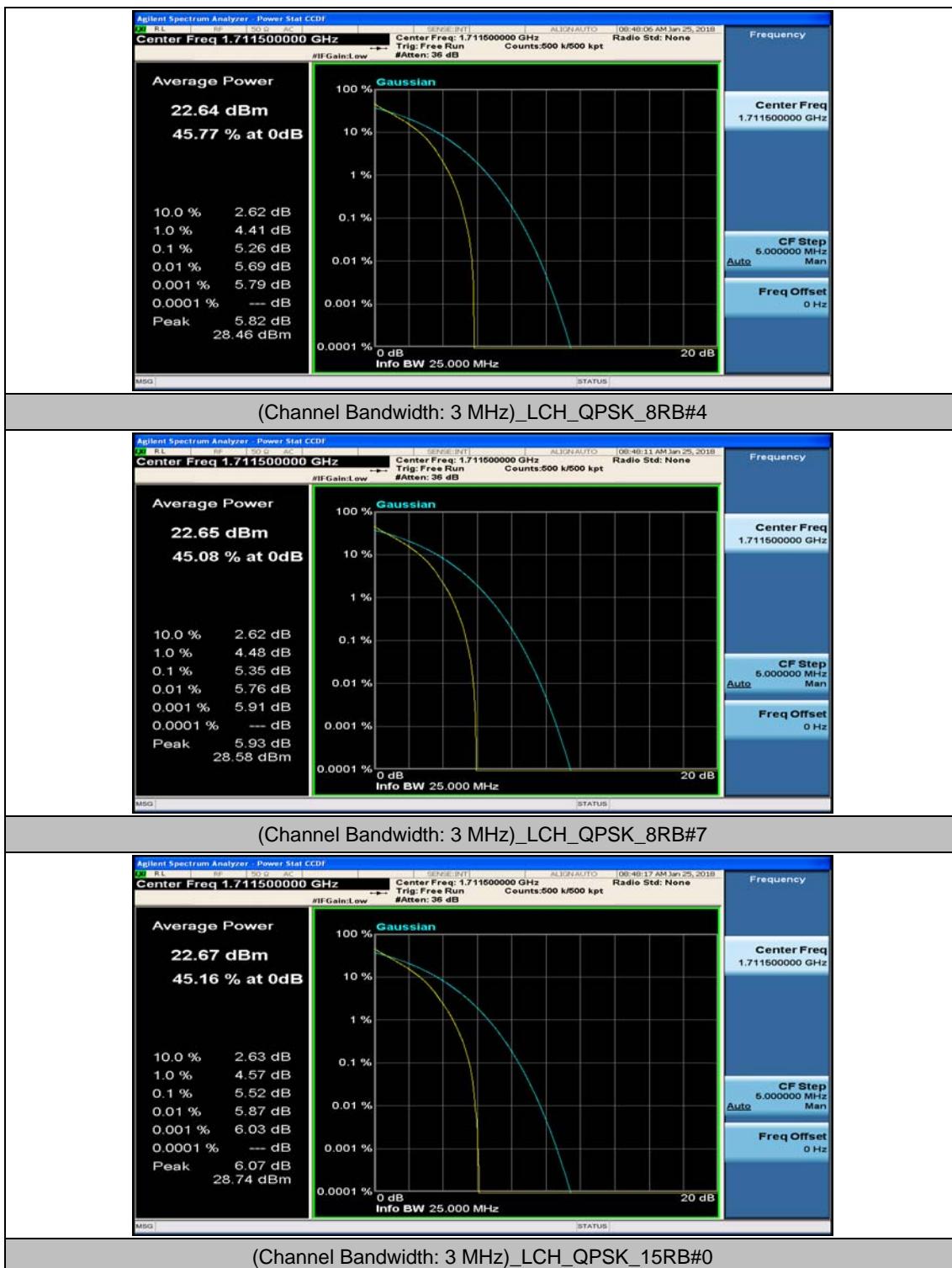


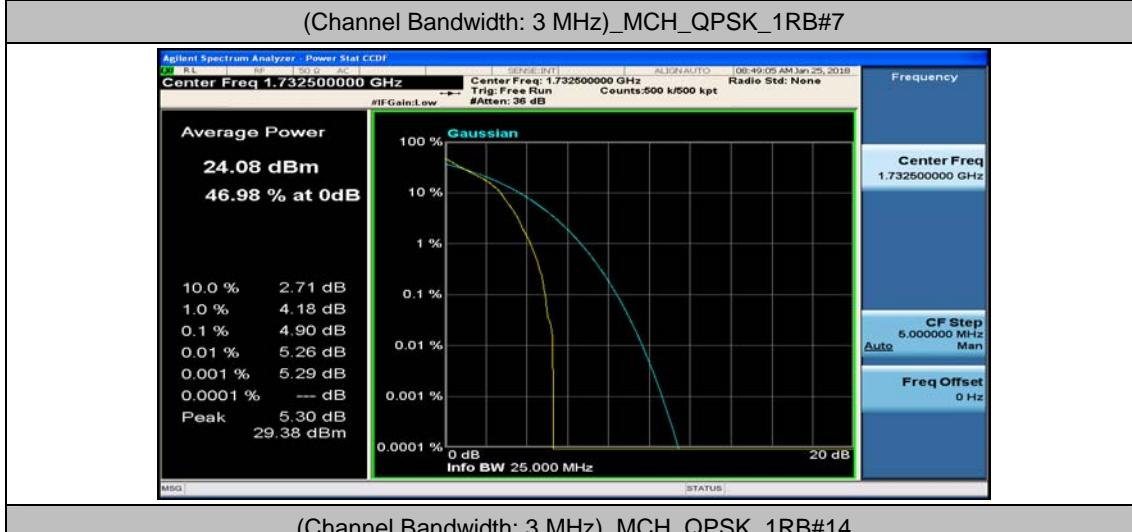
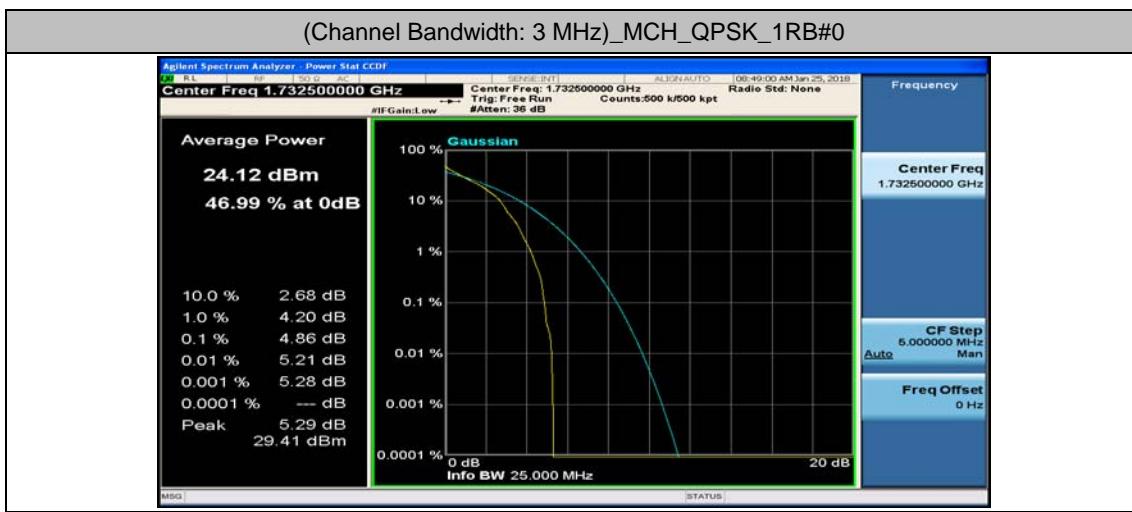
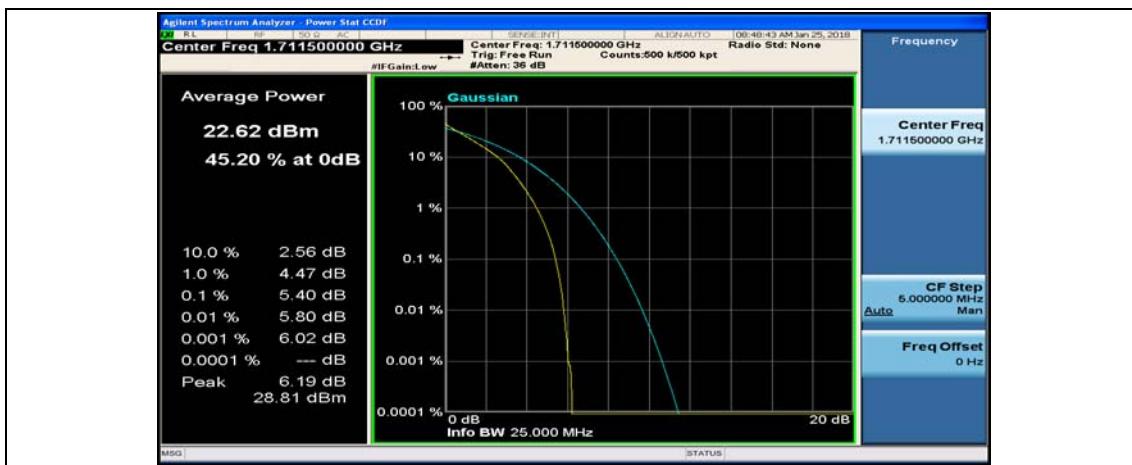


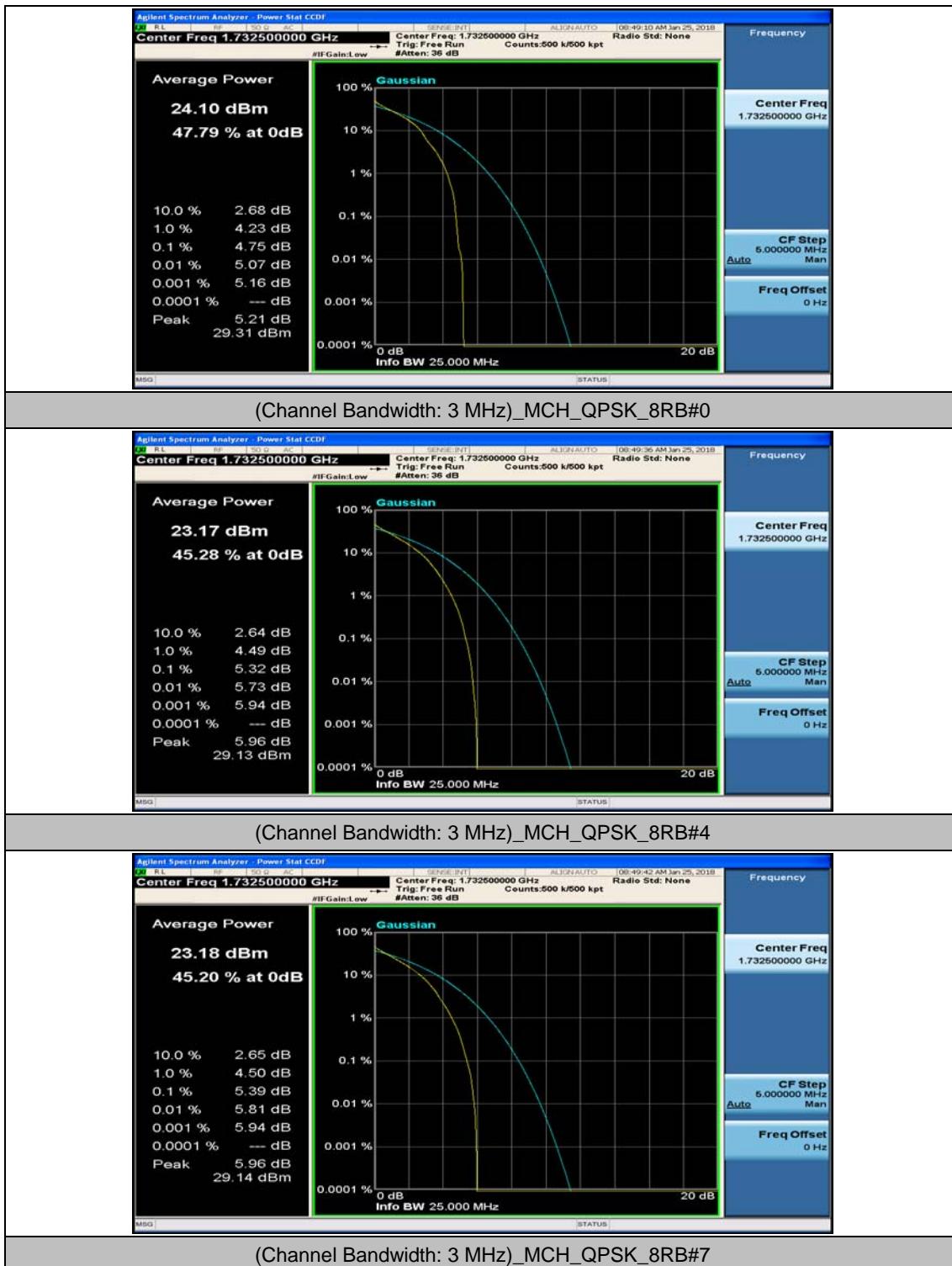


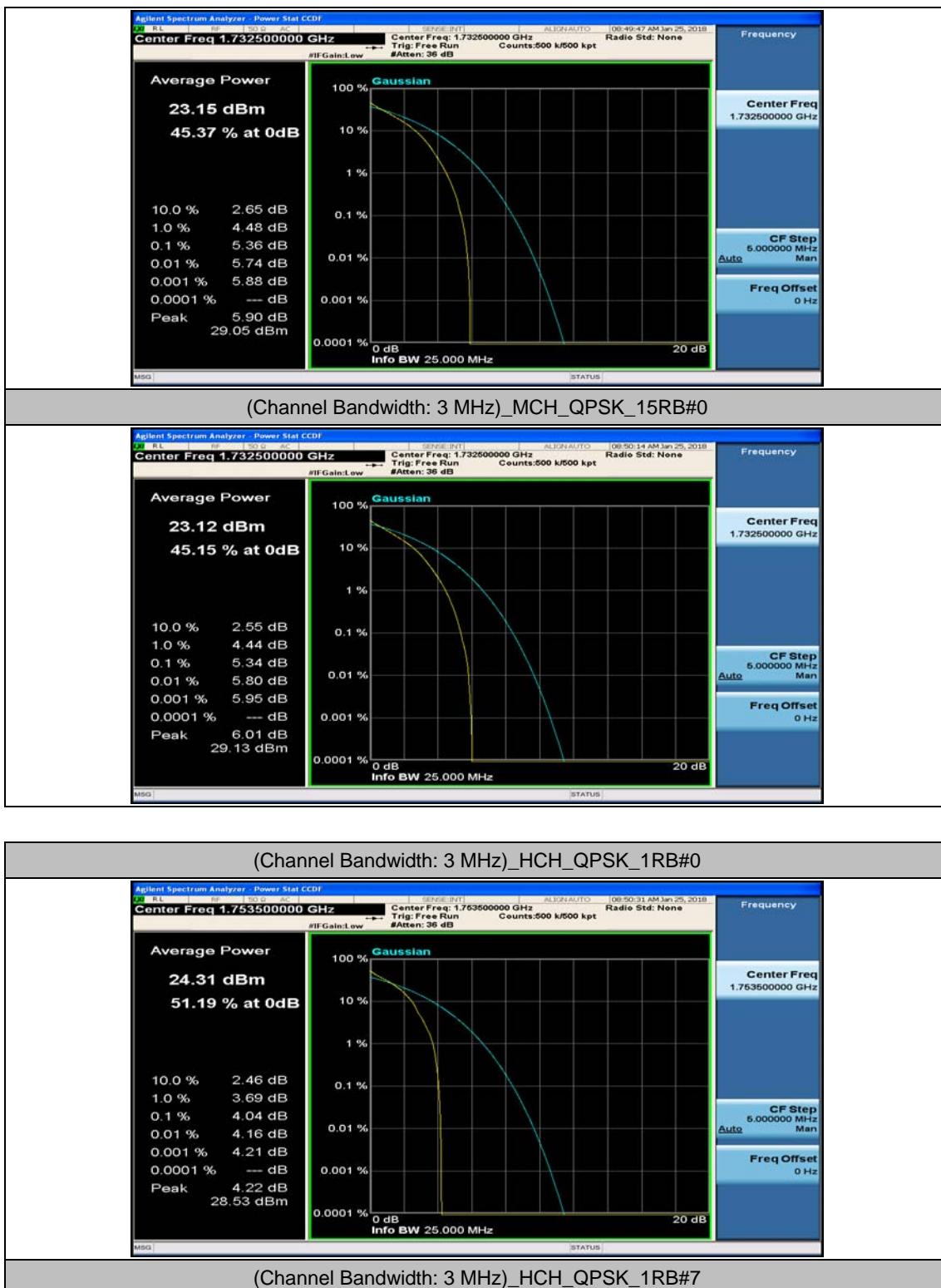
Channel Bandwidth: 3 MHz

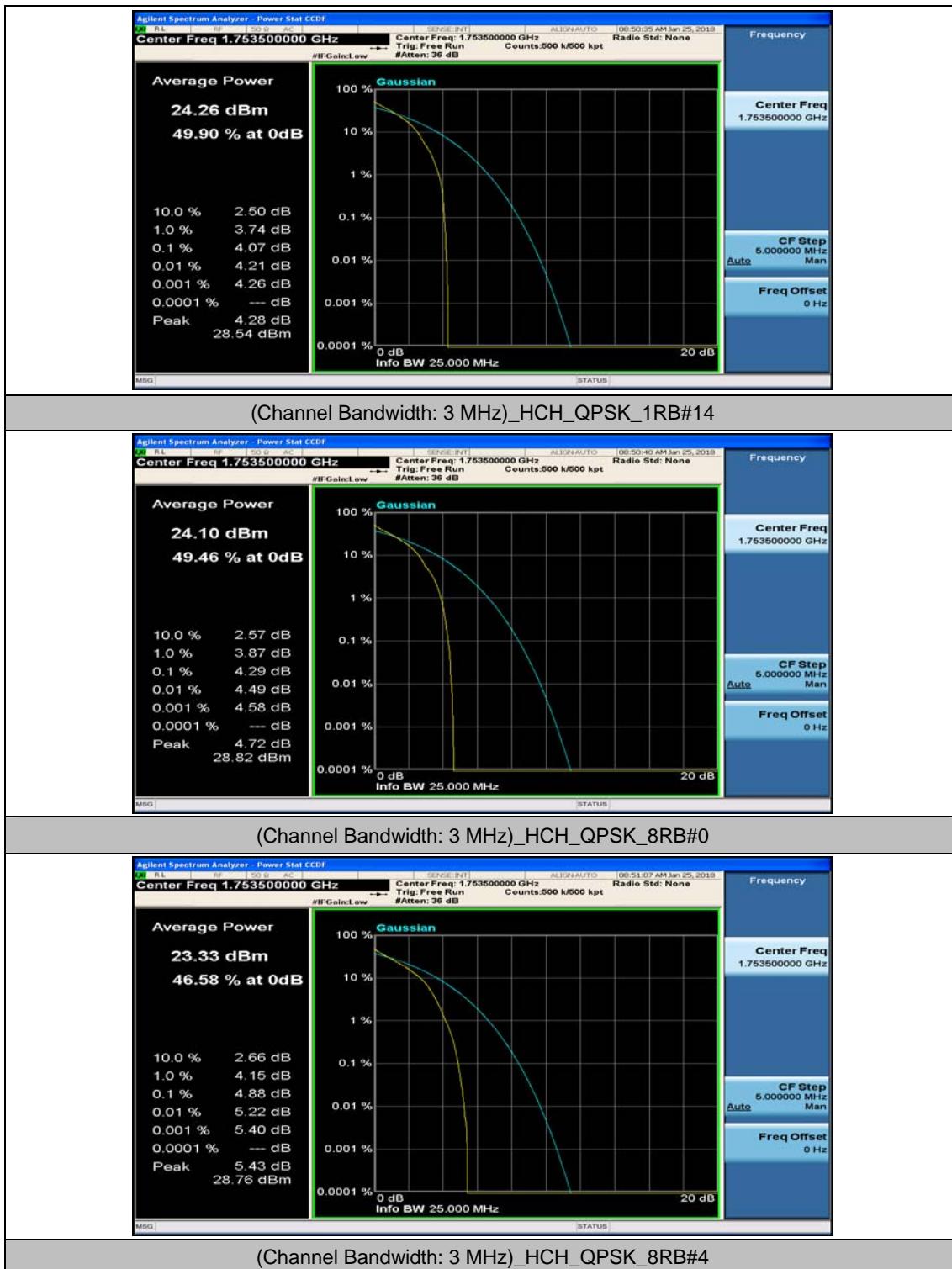


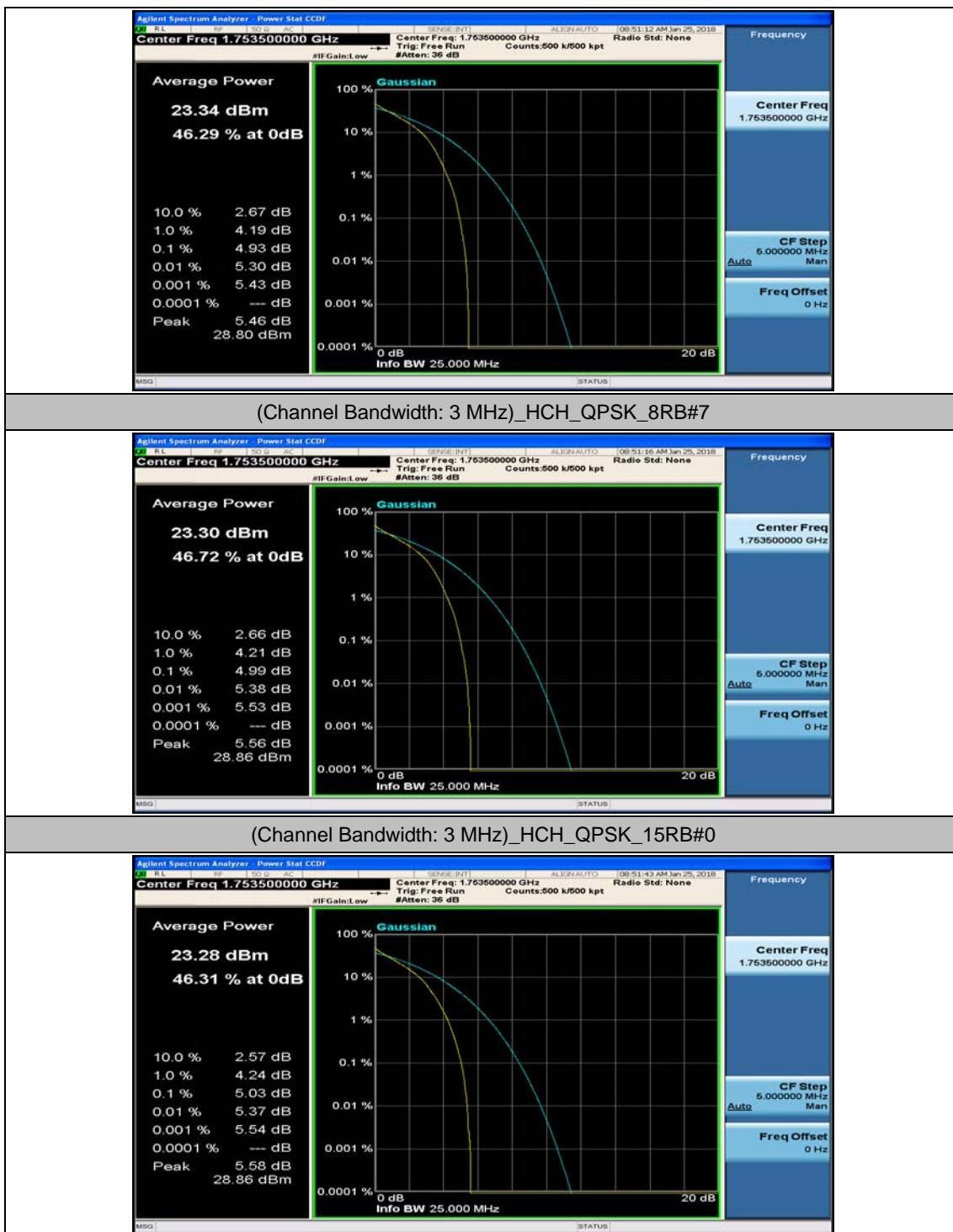


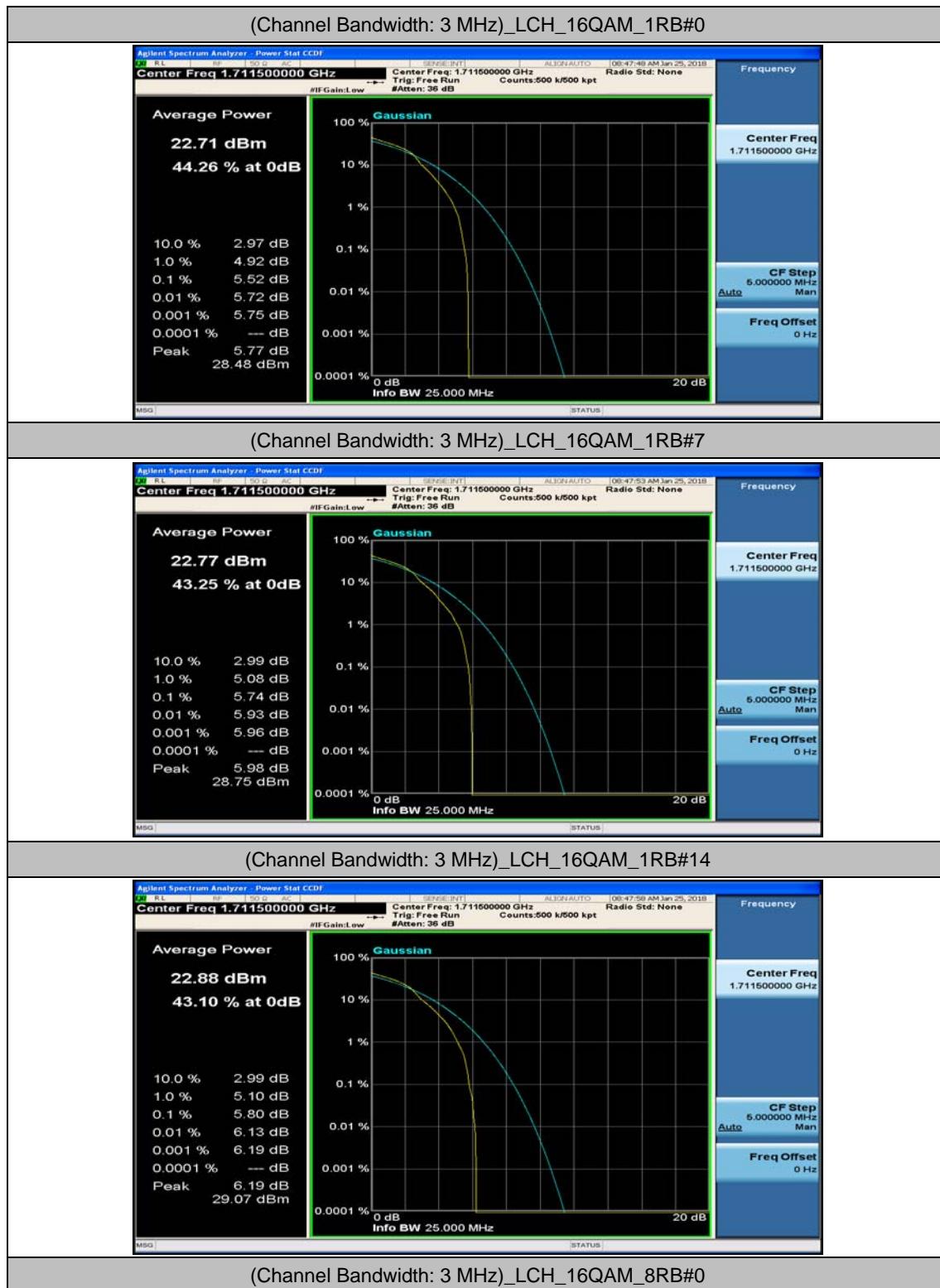


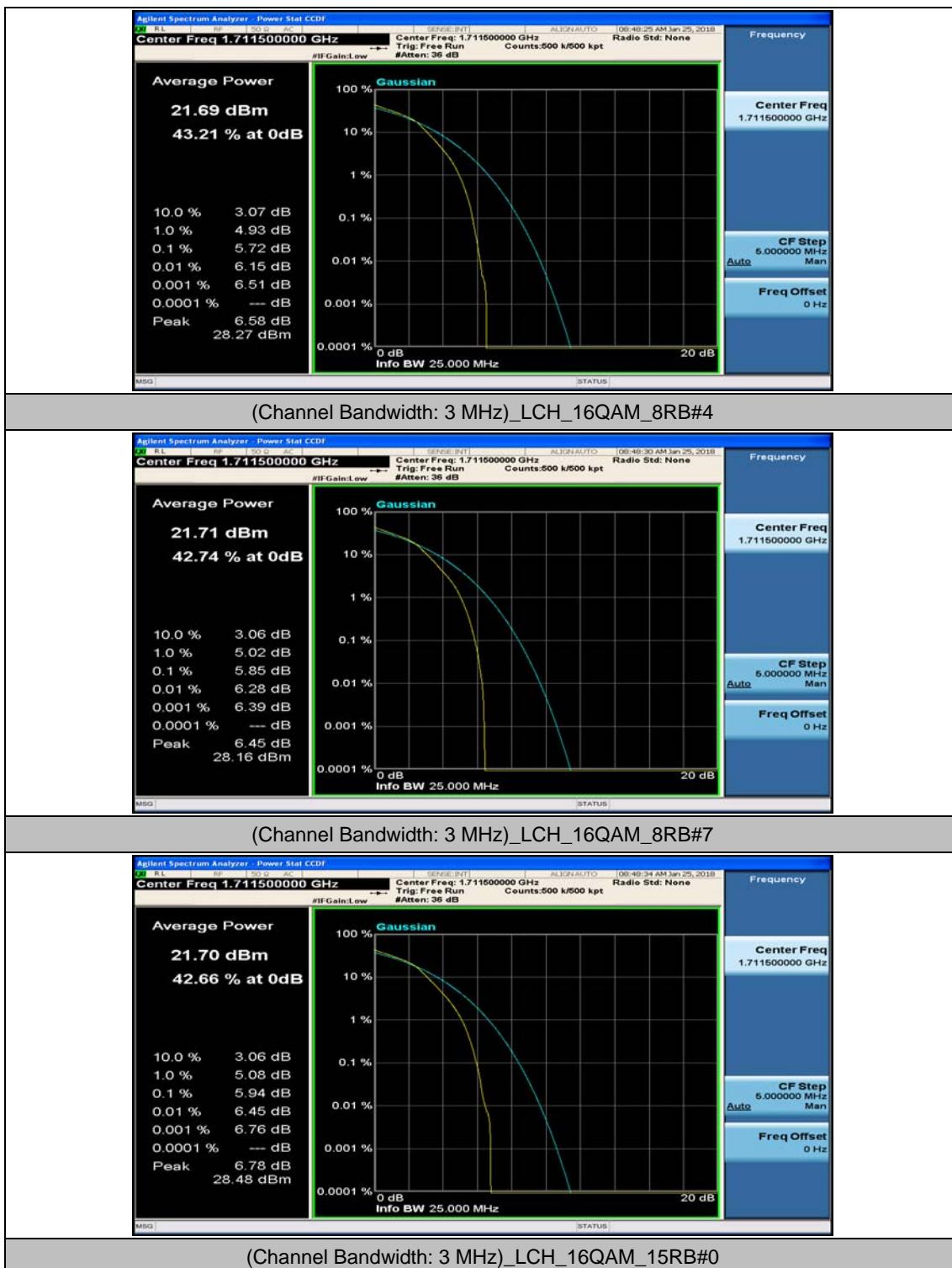


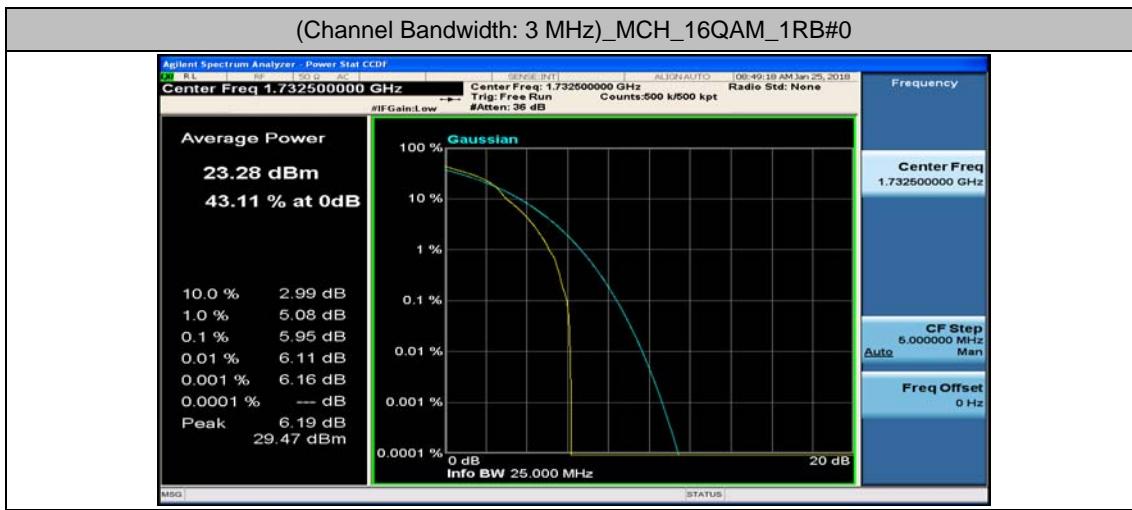
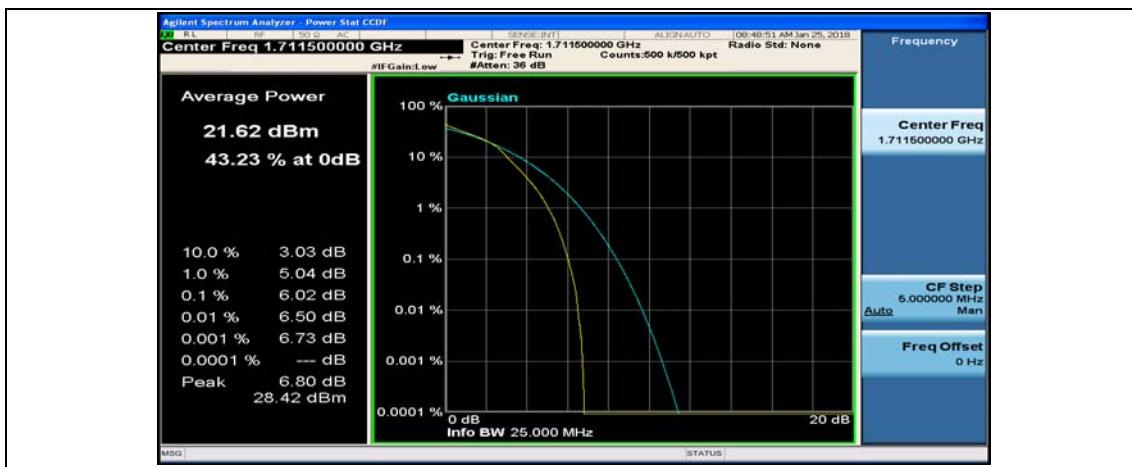




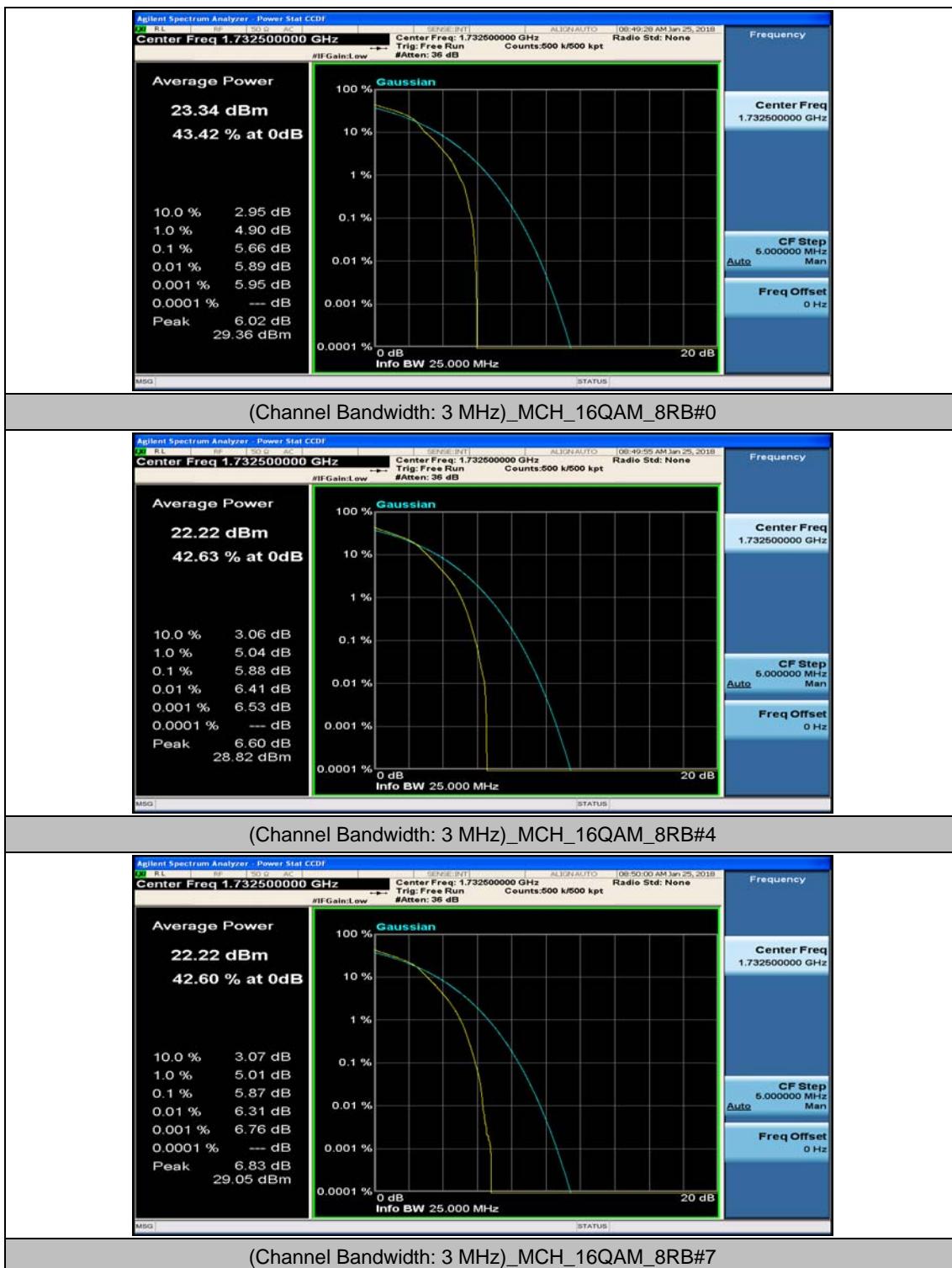


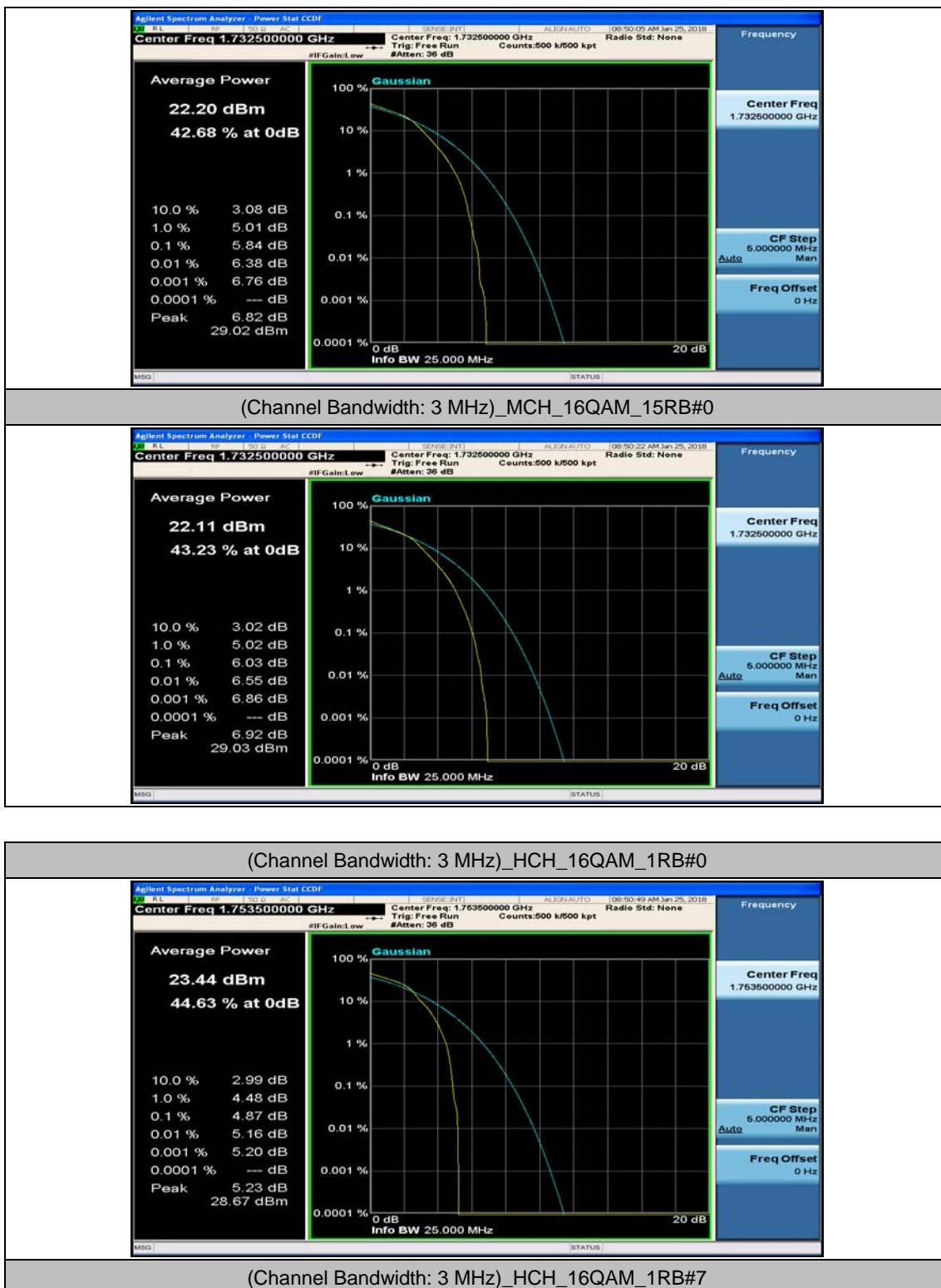


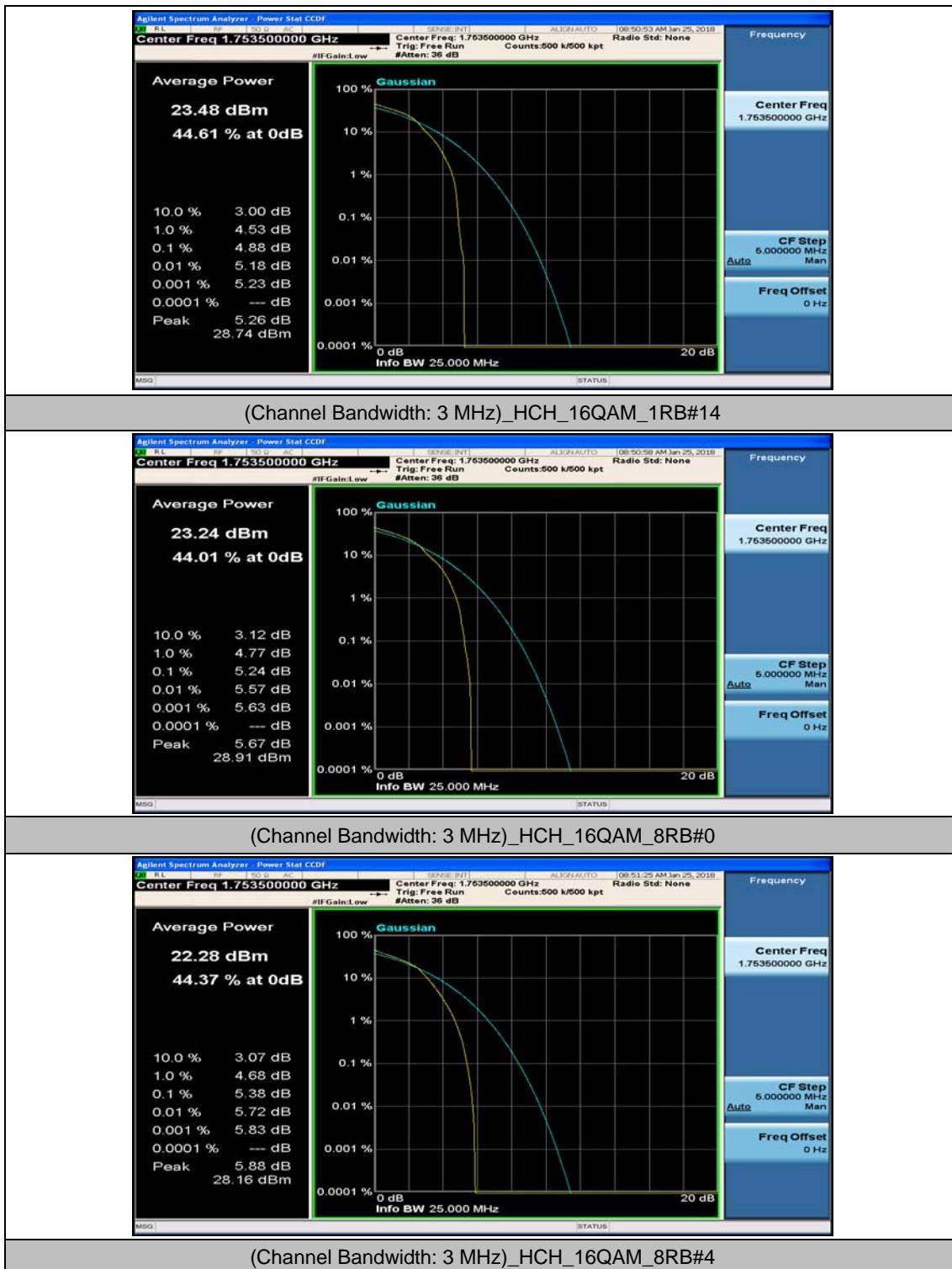


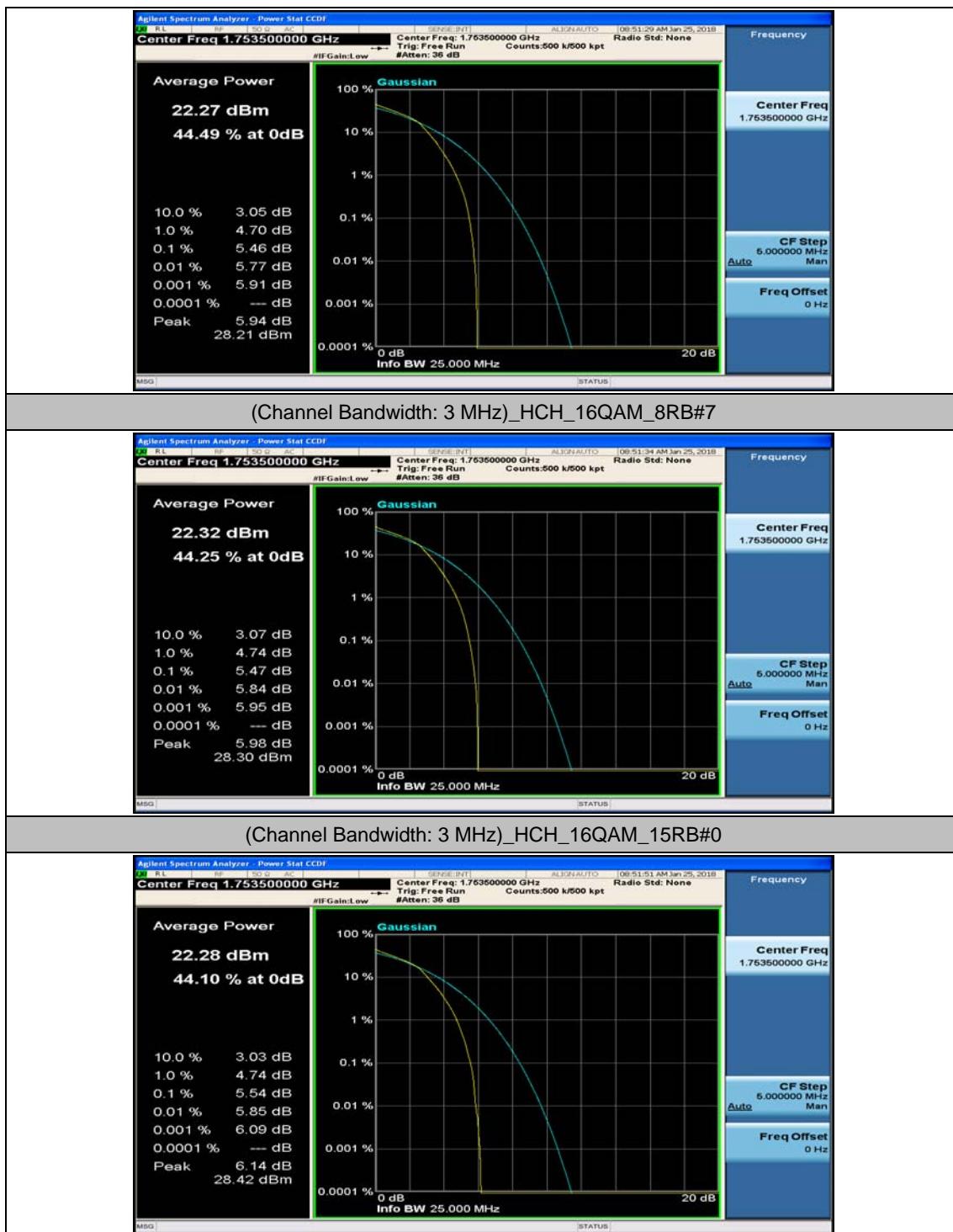


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14

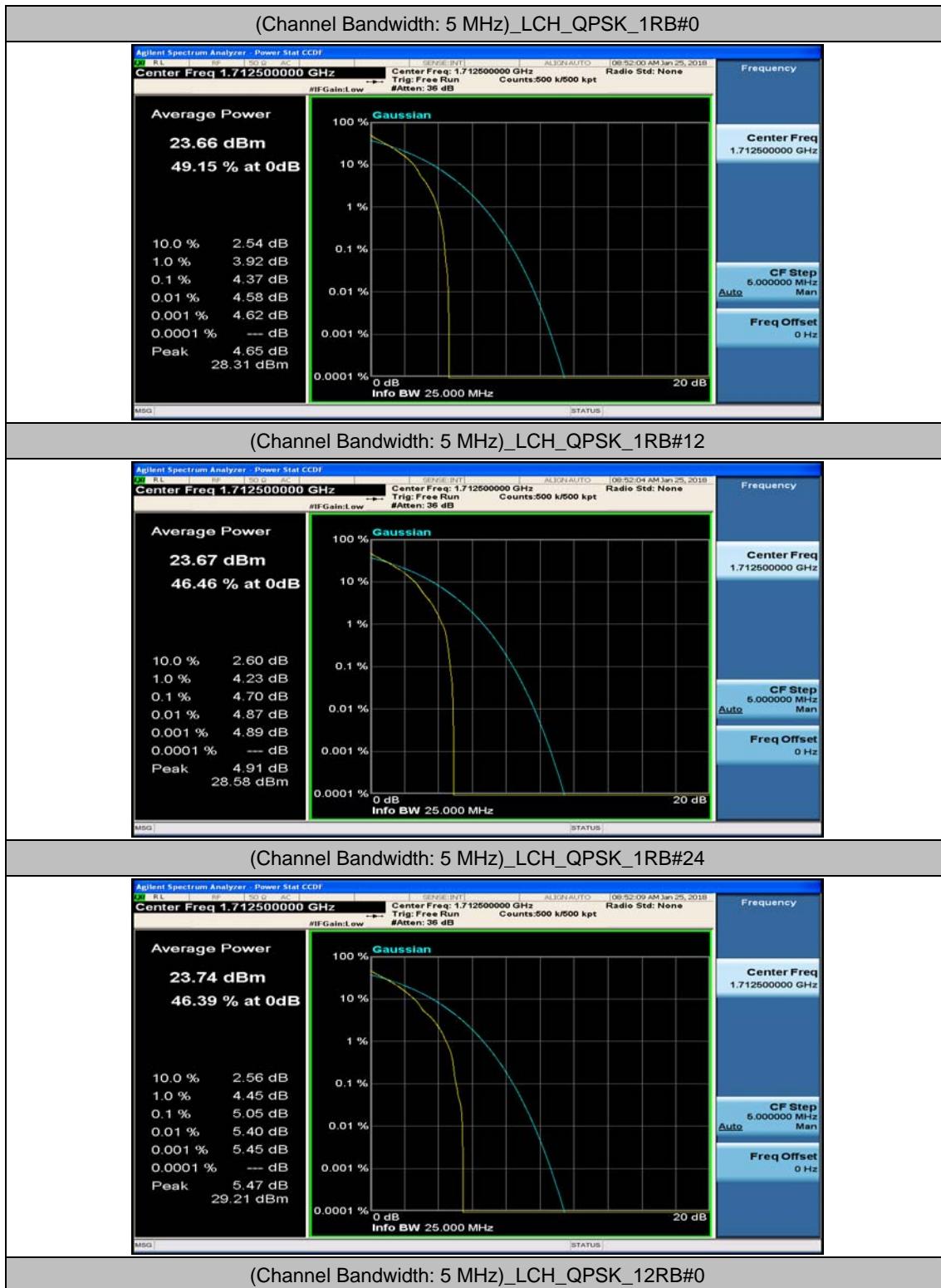


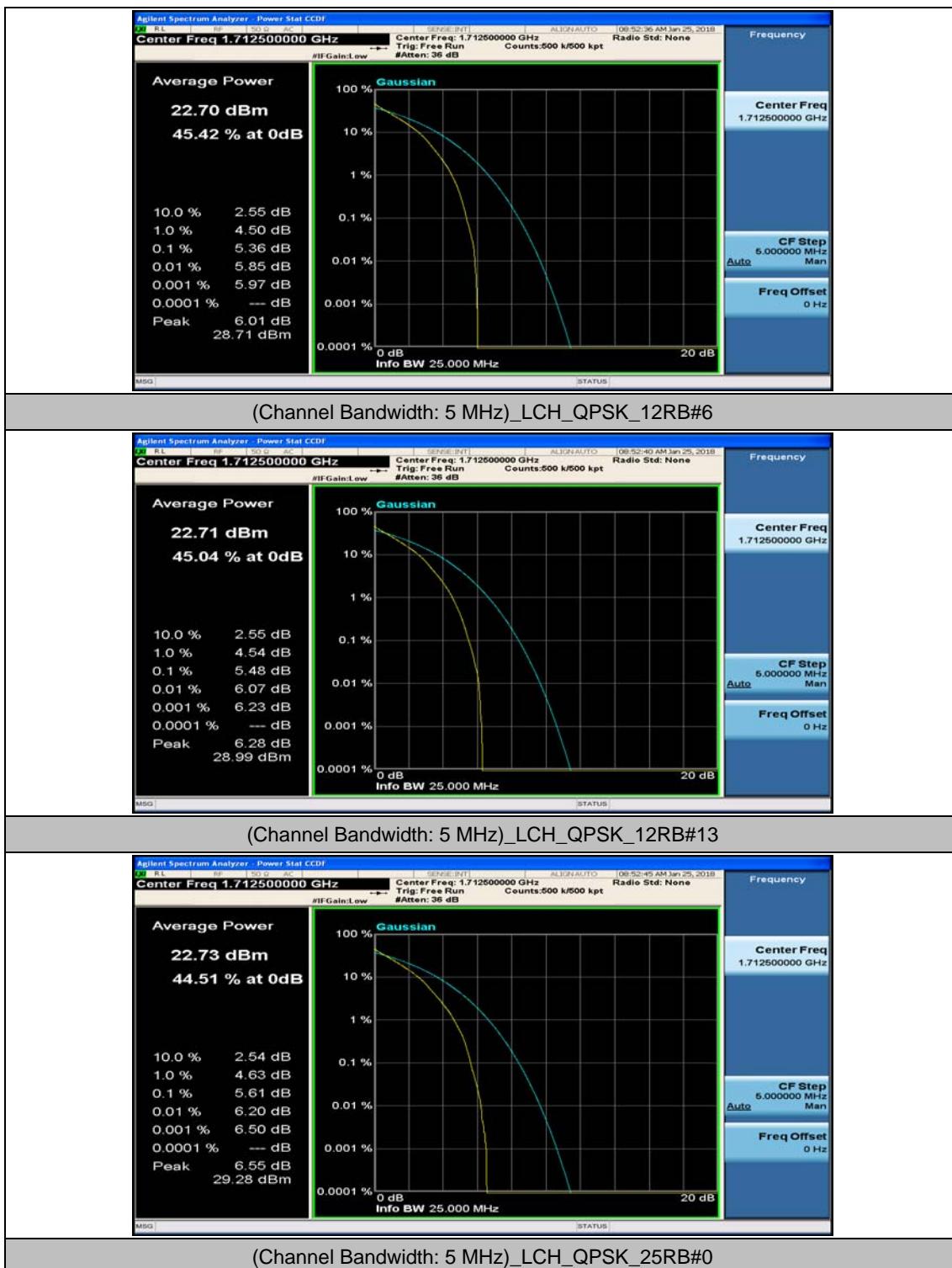


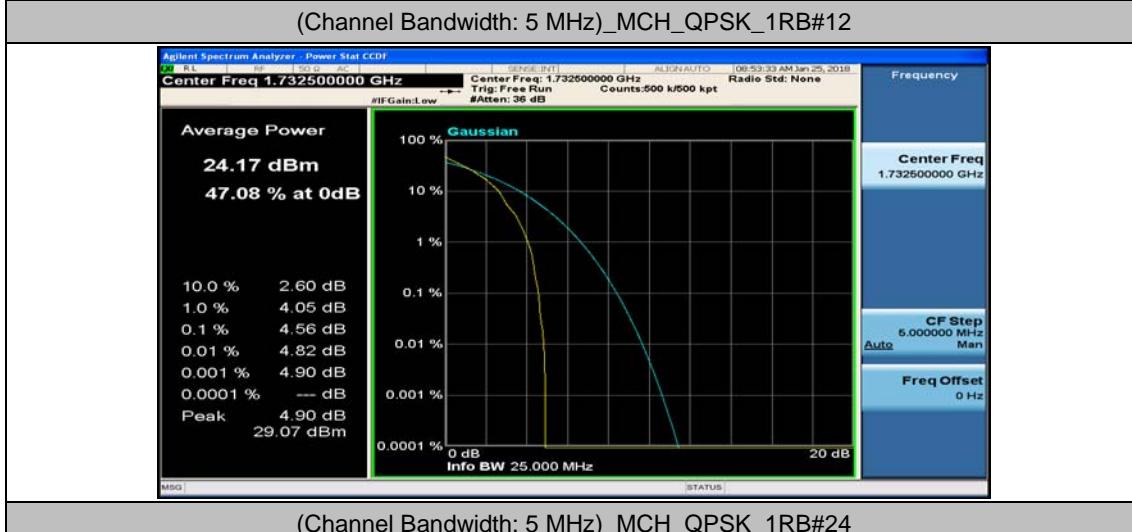
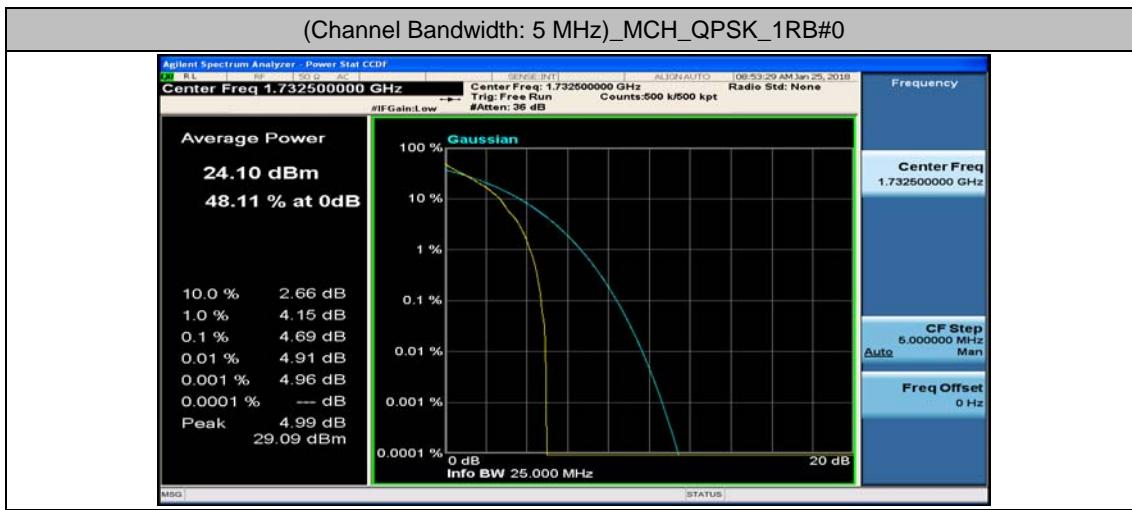
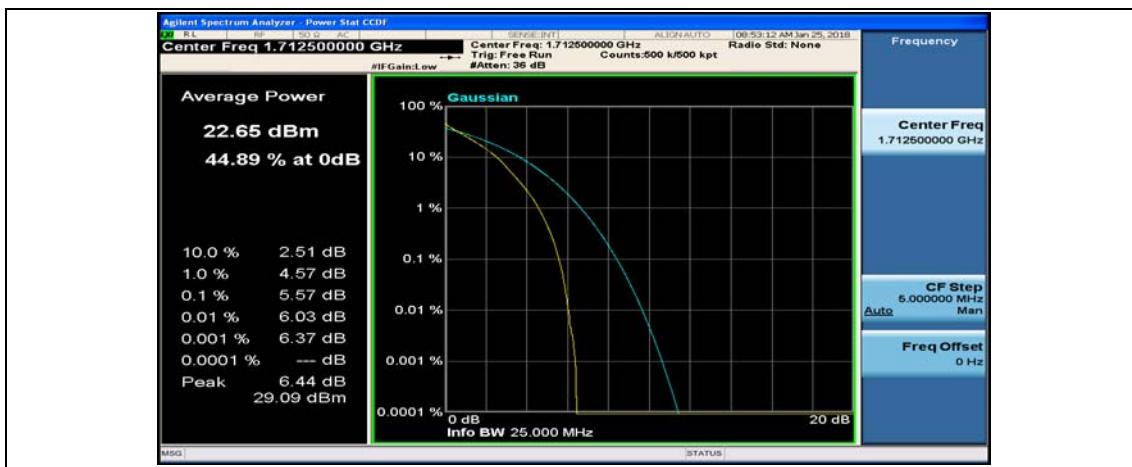




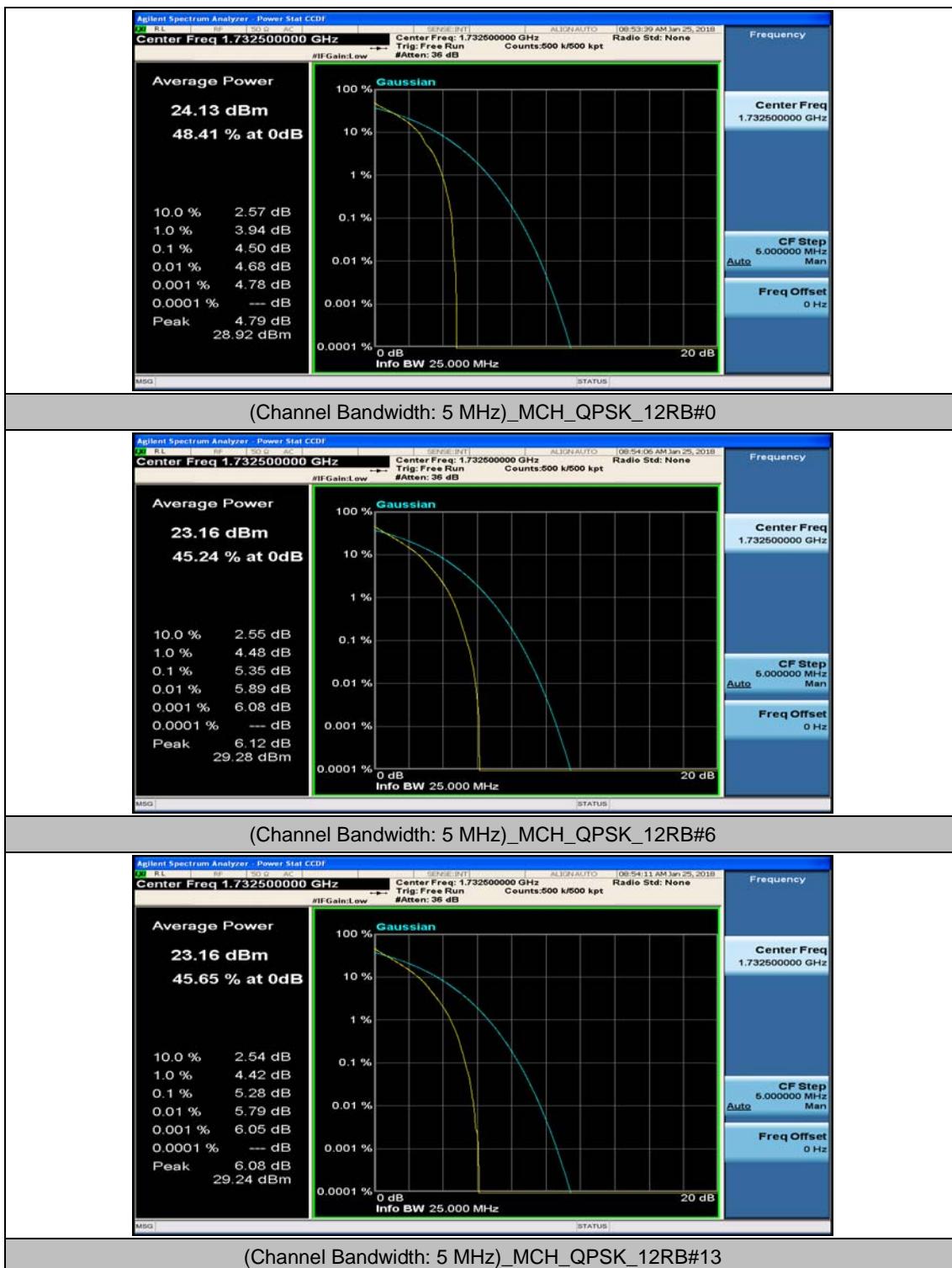
Channel Bandwidth: 5 MHz

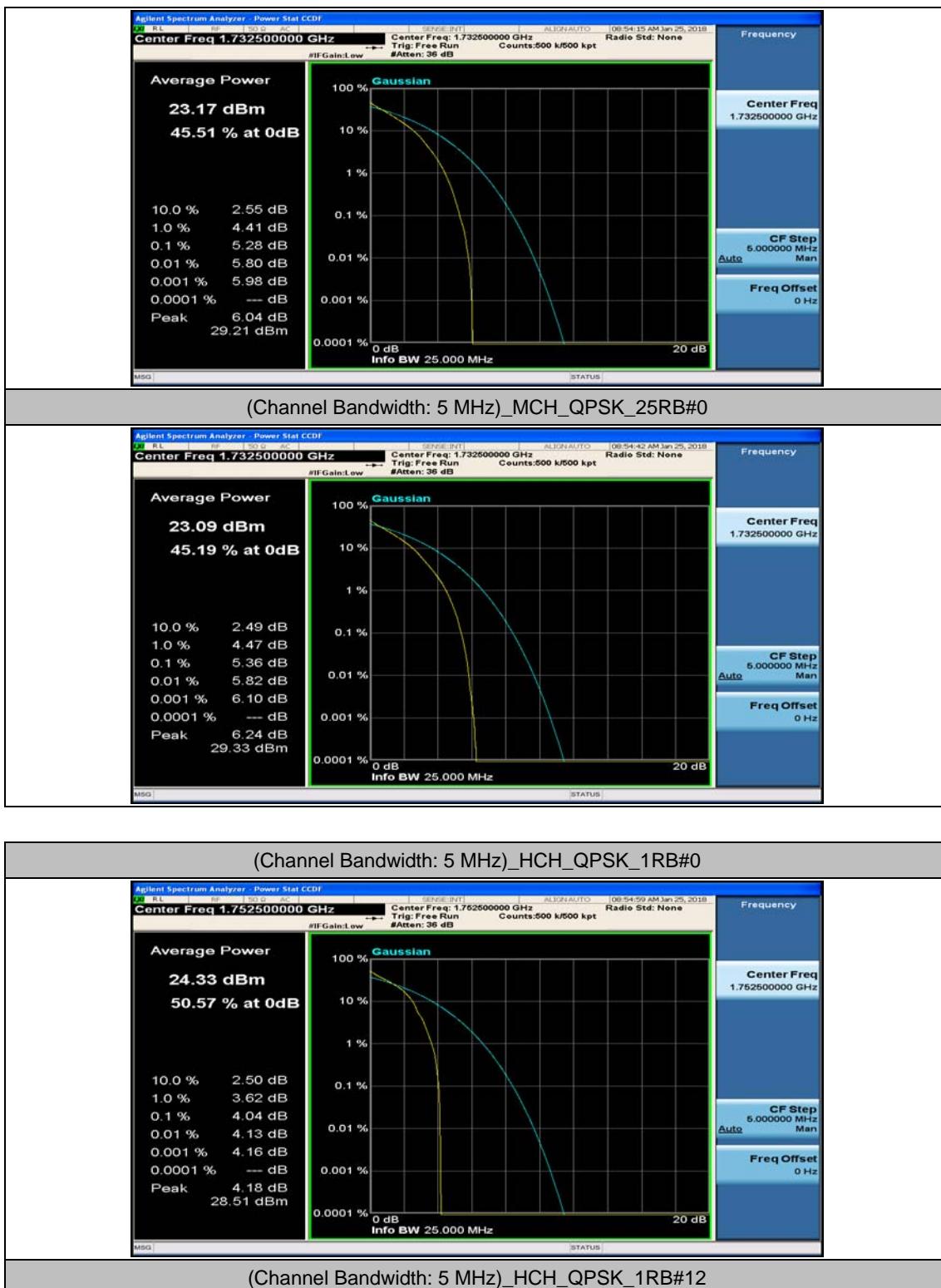


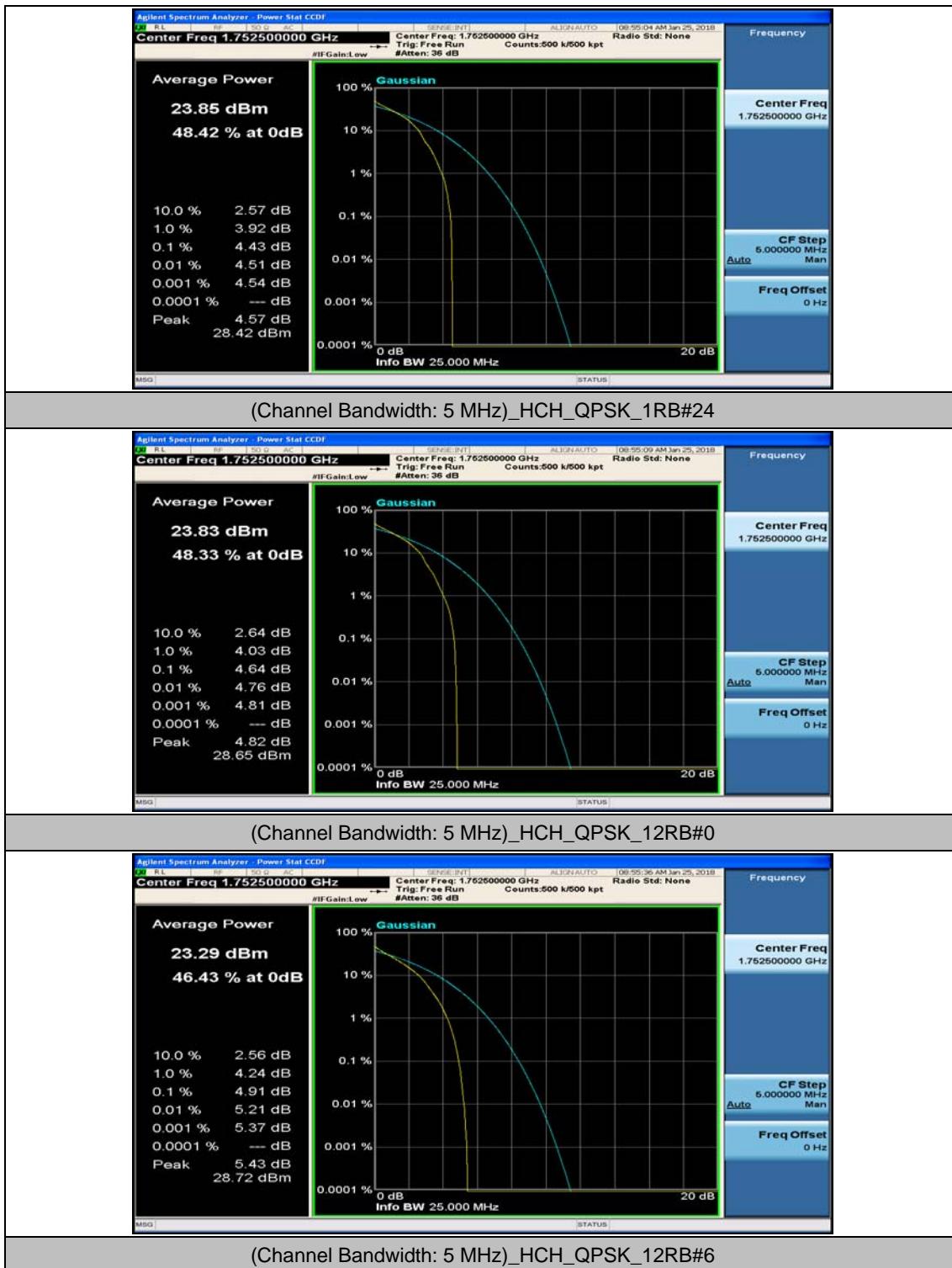


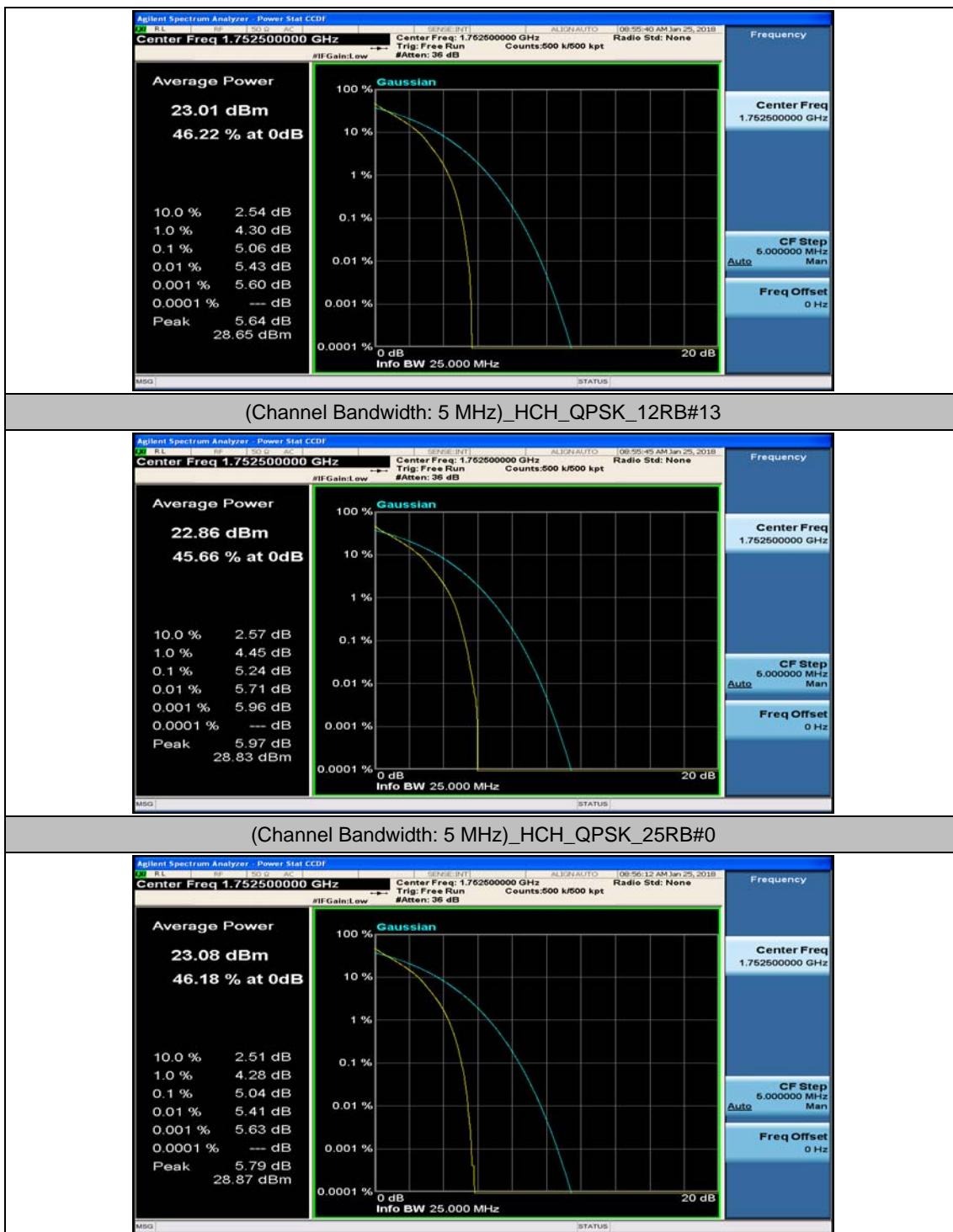


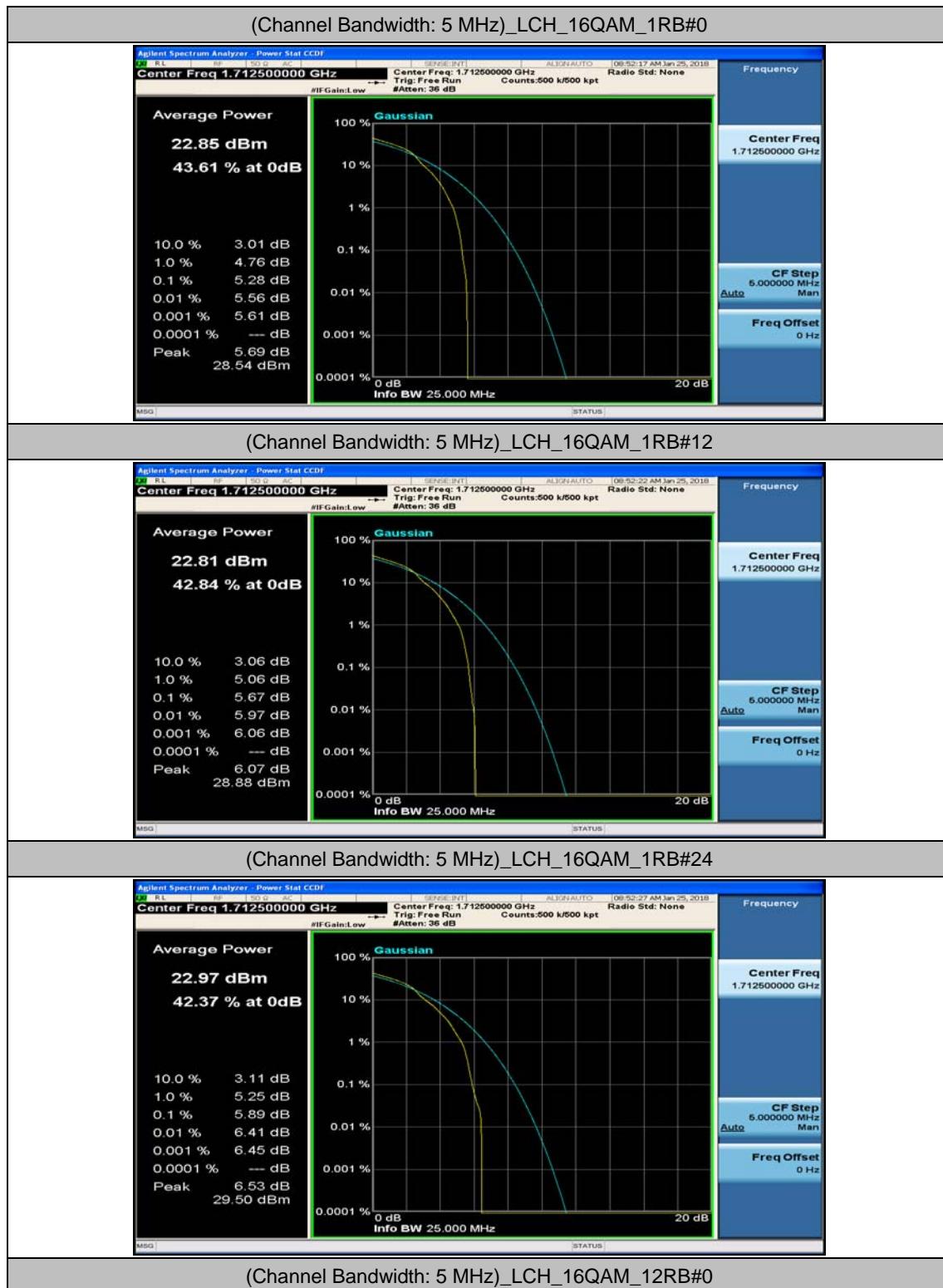
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

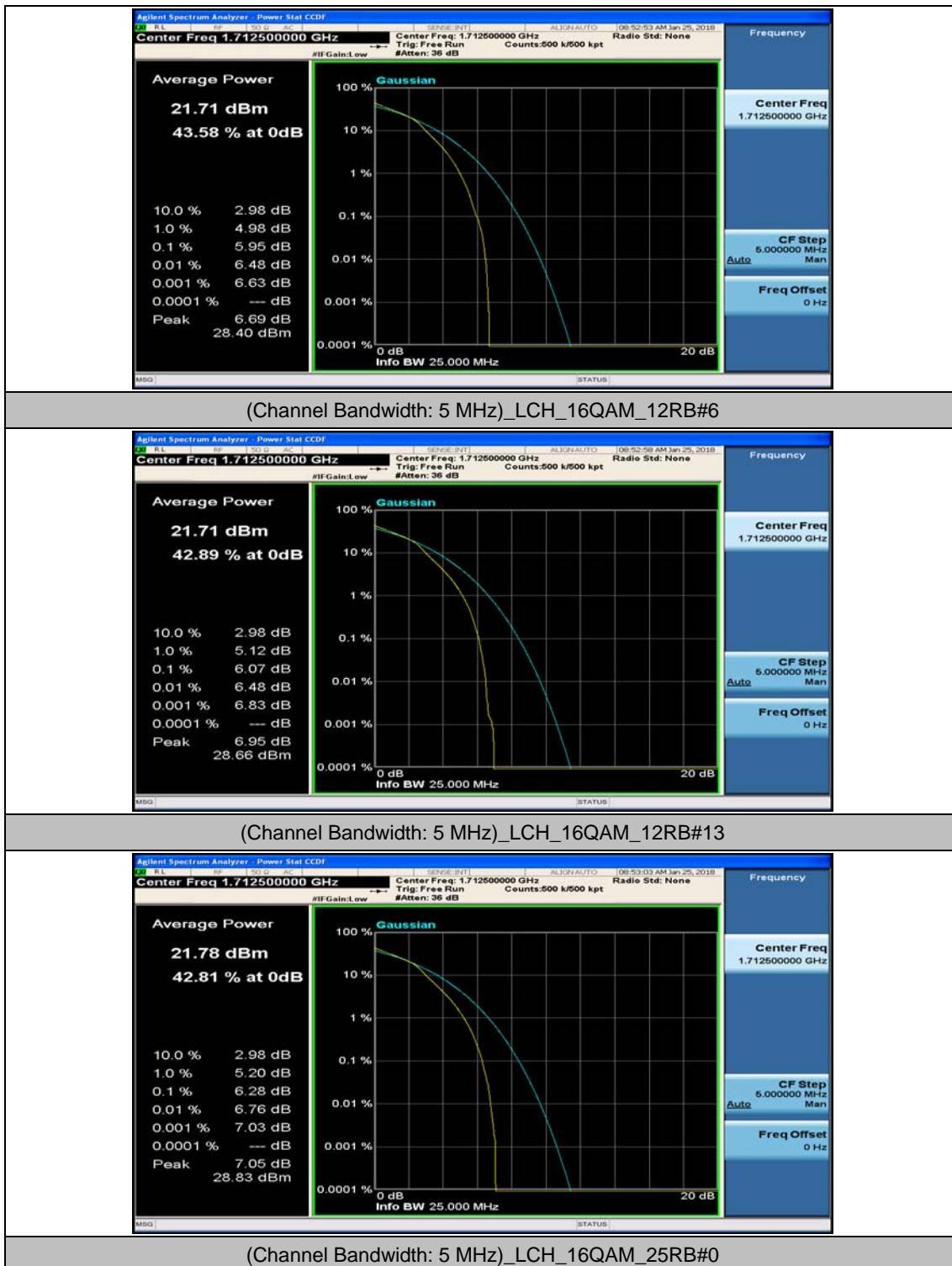


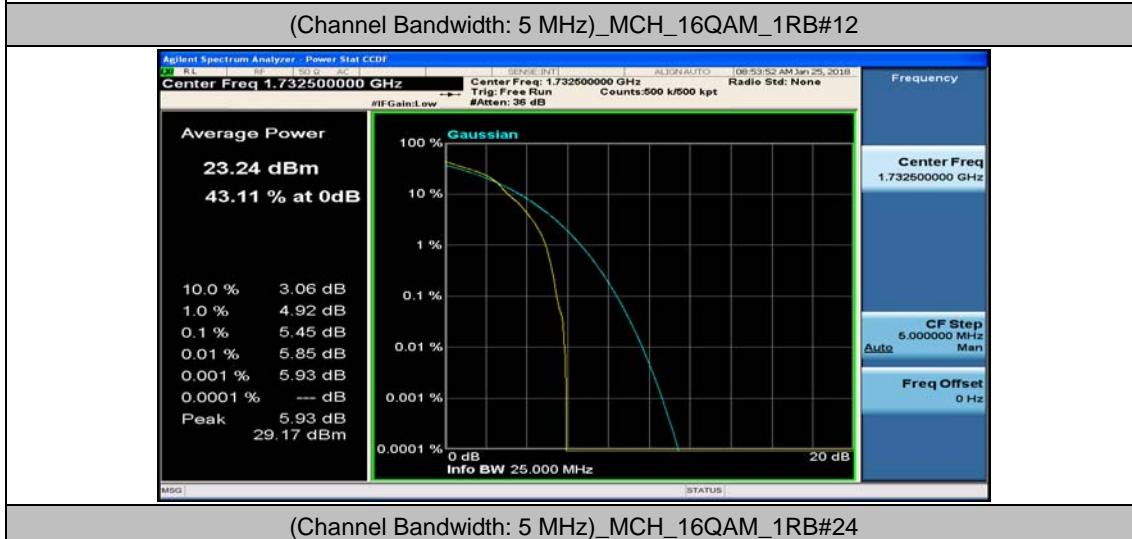
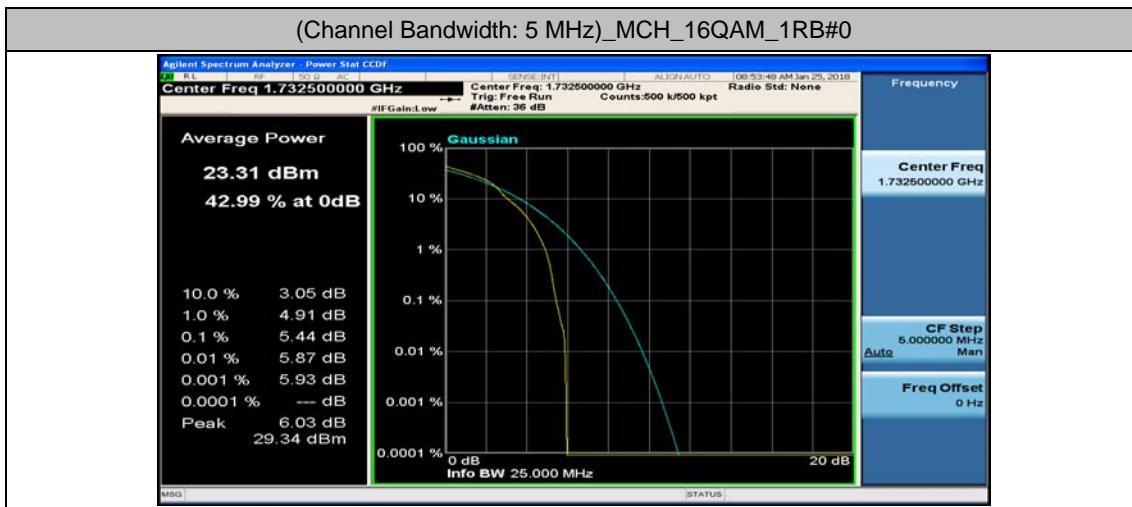
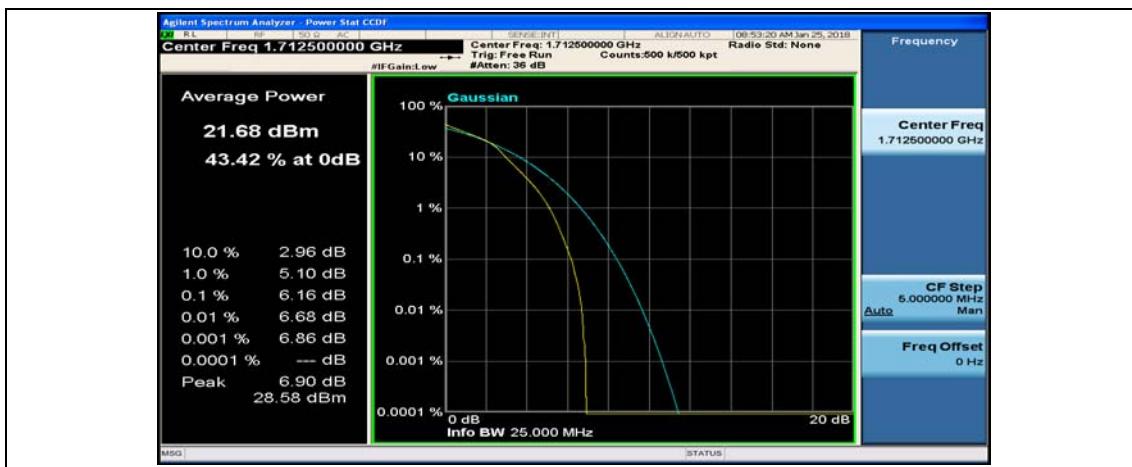












(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

