

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	22.95	PASS
		1	3	23.11	PASS
		1	5	22.93	PASS
		3	0	22.34	PASS
		3	2	22.35	PASS
		3	3	22.39	PASS
		6	0	22.05	PASS
	MCH	1	0	22.85	PASS
		1	3	22.95	PASS
		1	5	22.87	PASS
		3	0	22.36	PASS
		3	2	22.34	PASS
		3	3	22.35	PASS
		6	0	21.86	PASS
16QAM	HCH	1	0	22.78	PASS
		1	3	23.03	PASS
		1	5	22.80	PASS
		3	0	22.38	PASS
		3	2	22.36	PASS
		3	3	22.31	PASS
		6	0	21.86	PASS
	LCH	1	0	22.18	PASS
		1	3	22.30	PASS
		1	5	22.07	PASS
		3	0	22.15	PASS
		3	2	22.07	PASS
		3	3	22.06	PASS
		6	0	21.02	PASS
	MCH	1	0	22.18	PASS
		1	3	22.38	PASS
		1	5	22.28	PASS
		3	0	21.94	PASS
		3	2	21.93	PASS

		3	3	21.93	PASS
		6	0	21.45	PASS
HCH	HCH	1	0	22.03	PASS
		1	3	22.24	PASS
		1	5	22.08	PASS
		3	0	21.94	PASS
		3	2	21.95	PASS
		3	3	21.93	PASS
		6	0	21.05	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.94	PASS
		1	7	22.98	PASS
		1	14	22.87	PASS
		8	0	21.97	PASS
		8	4	21.95	PASS
		8	7	21.93	PASS
		15	0	21.93	PASS
	MCH	1	0	22.91	PASS
		1	7	23.14	PASS
		1	14	22.84	PASS
		8	0	21.86	PASS
		8	4	21.91	PASS
		8	7	21.88	PASS
		15	0	21.85	PASS
	HCH	1	0	22.79	PASS
		1	7	23.09	PASS
		1	14	22.83	PASS
		8	0	21.82	PASS
		8	4	21.84	PASS
		8	7	21.79	PASS
		15	0	21.80	PASS
16QAM	LCH	1	0	22.21	PASS
		1	7	22.35	PASS
		1	14	22.11	PASS
		8	0	21.09	PASS
		8	4	21.10	PASS
		8	7	21.02	PASS
		15	0	20.96	PASS
	MCH	1	0	22.28	PASS

		1	7	22.49	PASS
		1	14	22.26	PASS
		8	0	20.93	PASS
		8	4	20.97	PASS
		8	7	20.93	PASS
		15	0	20.90	PASS
	HCH	1	0	22.03	PASS
		1	7	22.33	PASS
		1	14	22.09	PASS
		8	0	20.85	PASS
		8	4	20.88	PASS
		8	7	20.80	PASS
		15	0	20.87	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.98	PASS
		1	12	23.20	PASS
		1	24	22.86	PASS
		12	0	21.83	PASS
		12	6	21.96	PASS
		12	13	21.91	PASS
		25	0	21.89	PASS
	MCH	1	0	22.84	PASS
		1	12	23.17	PASS
		1	24	22.77	PASS
		12	0	21.85	PASS
		12	6	21.91	PASS
		12	13	21.94	PASS
		25	0	21.93	PASS
	HCH	1	0	22.79	PASS
		1	12	23.15	PASS
		1	24	22.83	PASS
		12	0	21.85	PASS
		12	6	21.91	PASS
		12	13	21.76	PASS
		25	0	21.86	PASS
16QAM	LCH	1	0	22.21	PASS
		1	12	22.42	PASS
		1	24	22.09	PASS
		12	0	20.96	PASS

		12	6	21.04	PASS
		12	13	20.98	PASS
		25	0	20.98	PASS
MCH		1	0	22.12	PASS
		1	12	22.48	PASS
		1	24	22.09	PASS
		12	0	21.01	PASS
		12	6	21.08	PASS
		12	13	21.04	PASS
		25	0	20.98	PASS
HCH		1	0	21.94	PASS
		1	12	22.21	PASS
		1	24	22.02	PASS
		12	0	20.90	PASS
		12	6	20.93	PASS
		12	13	20.78	PASS
		25	0	20.96	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.96	PASS
		1	24	23.02	PASS
		1	49	22.83	PASS
		25	0	21.99	PASS
		25	12	21.89	PASS
		25	25	21.89	PASS
		50	0	21.92	PASS
	MCH	1	0	22.88	PASS
		1	24	23.03	PASS
		1	49	22.78	PASS
		25	0	21.92	PASS
		25	12	21.91	PASS
		25	25	22.04	PASS
		50	0	21.97	PASS
	HCH	1	0	22.76	PASS
		1	24	22.85	PASS
		1	49	22.79	PASS
		25	0	21.87	PASS
		25	12	21.80	PASS
		25	25	21.76	PASS
		50	0	21.77	PASS

16QAM	LCH	1	0	22.20	PASS
		1	24	22.28	PASS
		1	49	22.13	PASS
		25	0	21.00	PASS
		25	12	20.98	PASS
		25	25	20.95	PASS
		50	0	20.97	PASS
	MCH	1	0	22.31	PASS
		1	24	22.43	PASS
		1	49	22.24	PASS
		25	0	21.04	PASS
		25	12	21.02	PASS
		25	25	21.13	PASS
		50	0	21.12	PASS
	HCH	1	0	21.98	PASS
		1	24	22.12	PASS
		1	49	22.07	PASS
		25	0	20.90	PASS
		25	12	20.89	PASS
		25	25	20.84	PASS
		50	0	20.87	PASS

Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.85	PASS
		1	37	23.15	PASS
		1	74	22.80	PASS
		37	0	22.04	PASS
		37	18	22.03	PASS
		37	38	21.84	PASS
		75	0	21.97	PASS
	MCH	1	0	22.79	PASS
		1	37	23.06	PASS
		1	74	22.69	PASS
		37	0	21.92	PASS
		37	18	21.95	PASS
		37	38	21.98	PASS
		75	0	21.96	PASS
	HCH	1	0	22.75	PASS
		1	37	23.01	PASS
		1	74	22.73	PASS

		37	0	21.83	PASS
		37	18	21.92	PASS
		37	38	21.76	PASS
		75	0	21.81	PASS
16QAM	LCH	1	0	22.08	PASS
		1	37	22.34	PASS
		1	74	22.08	PASS
		37	0	21.00	PASS
		37	18	21.00	PASS
		37	38	20.86	PASS
		75	0	20.96	PASS
	MCH	1	0	22.15	PASS
		1	37	22.35	PASS
		1	74	21.94	PASS
		37	0	20.95	PASS
		37	18	21.02	PASS
		37	38	21.01	PASS
		75	0	20.97	PASS
	HCH	1	0	21.97	PASS
		1	37	22.06	PASS
		1	74	21.97	PASS
		37	0	20.79	PASS
		37	18	20.86	PASS
		37	38	20.79	PASS
		75	0	20.85	PASS

Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.92	PASS
		1	49	23.30	PASS
		1	99	22.79	PASS
		50	0	22.44	PASS
		50	25	22.49	PASS
		50	50	22.48	PASS
		100	0	22.34	PASS
	MCH	1	0	22.82	PASS
		1	49	23.10	PASS
		1	99	22.70	PASS
		50	0	21.91	PASS
		50	25	21.95	PASS
		50	50	22.06	PASS

		100	0	22.02	PASS
	HCH	1	0	22.64	PASS
		1	49	23.15	PASS
		1	99	22.58	PASS
		50	0	21.64	PASS
		50	25	21.80	PASS
		50	50	21.66	PASS
		100	0	21.59	PASS
16QAM	LCH	1	0	22.06	PASS
		1	49	22.26	PASS
		1	99	22.00	PASS
		50	0	21.06	PASS
		50	25	20.99	PASS
		50	50	20.85	PASS
		100	0	20.98	PASS
	MCH	1	0	22.14	PASS
		1	49	22.49	PASS
		1	99	22.01	PASS
		50	0	21.04	PASS
		50	25	21.07	PASS
		50	50	21.14	PASS
		100	0	21.08	PASS
	HCH	1	0	22.02	PASS
		1	49	22.16	PASS
		1	99	21.91	PASS
		50	0	20.67	PASS
		50	25	20.86	PASS
		50	50	20.69	PASS
		100	0	20.68	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	<13	PASS
		1	3	3.76	<13	PASS
		1	5	3.97	<13	PASS
		3	0	4.06	<13	PASS
		3	2	4	<13	PASS
		3	3	4.01	<13	PASS
		6	0	4.74	<13	PASS
	MCH	1	0	4.91	<13	PASS
		1	3	4.69	<13	PASS
		1	5	4.8	<13	PASS
		3	0	4.86	<13	PASS
		3	2	4.85	<13	PASS
		3	3	4.88	<13	PASS
		6	0	5.19	<13	PASS
16QAM	LCH	1	0	4.27	<13	PASS
		1	3	4.28	<13	PASS
		1	5	4.47	<13	PASS
		3	0	4.29	<13	PASS
		3	2	4.33	<13	PASS
		3	3	4.35	<13	PASS
		6	0	5.06	<13	PASS
	MCH	1	0	5.01	<13	PASS
		1	3	4.91	<13	PASS
		1	5	5.02	<13	PASS
		3	0	5.02	<13	PASS
		3	2	4.99	<13	PASS
		3	3	5.04	<13	PASS
		6	0	5.67	<13	PASS

		3	2	5.54	<13	PASS
		3	3	5.8	<13	PASS
		6	0	6.11	<13	PASS
HCH		1	0	5.3	<13	PASS
		1	3	5.18	<13	PASS
		1	5	5.32	<13	PASS
		3	0	5.27	<13	PASS
		3	2	5.34	<13	PASS
		3	3	5.37	<13	PASS
		6	0	5.94	<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	4.03	<13	PASS
		1	7	3.9	<13	PASS
		1	14	3.91	<13	PASS
		8	0	4.85	<13	PASS
		8	4	4.79	<13	PASS
		8	7	4.78	<13	PASS
		15	0	4.85	<13	PASS
	MCH	1	0	4.61	<13	PASS
		1	7	4.56	<13	PASS
		1	14	4.64	<13	PASS
		8	0	5.33	<13	PASS
		8	4	5.29	<13	PASS
		8	7	5.3	<13	PASS
		15	0	5.45	<13	PASS
	HCH	1	0	4.08	<13	PASS
		1	7	4.12	<13	PASS
		1	14	4.36	<13	PASS
		8	0	4.95	<13	PASS
		8	4	5.01	<13	PASS
		8	7	5.07	<13	PASS
		15	0	4.97	<13	PASS
16QAM	LCH	1	0	4.93	<13	PASS
		1	7	4.84	<13	PASS
		1	14	4.83	<13	PASS
		8	0	5.59	<13	PASS
		8	4	5.58	<13	PASS

		8	7	5.57	<13	PASS
		15	0	5.78	<13	PASS
MCH		1	0	5.49	<13	PASS
		1	7	5.52	<13	PASS
		1	14	5.53	<13	PASS
		8	0	6	<13	PASS
		8	4	6.02	<13	PASS
		8	7	6.09	<13	PASS
		15	0	6.2	<13	PASS
HCH		1	0	5.04	<13	PASS
		1	7	5.04	<13	PASS
		1	14	5.31	<13	PASS
		8	0	5.9	<13	PASS
		8	4	5.96	<13	PASS
		8	7	6.03	<13	PASS
		15	0	5.82	<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	4.2	<13	PASS
		1	12	3.89	<13	PASS
		1	24	4.05	<13	PASS
		12	0	4.88	<13	PASS
		12	6	4.79	<13	PASS
		12	13	4.8	<13	PASS
		25	0	4.83	<13	PASS
	MCH	1	0	4.87	<13	PASS
		1	12	4.74	<13	PASS
		1	24	4.81	<13	PASS
		12	0	5.24	<13	PASS
		12	6	5.22	<13	PASS
		12	13	5.26	<13	PASS
		25	0	5.38	<13	PASS
	HCH	1	0	3.97	<13	PASS
		1	12	4.02	<13	PASS
		1	24	4.41	<13	PASS
		12	0	4.82	<13	PASS
		12	6	4.89	<13	PASS
		12	13	5.04	<13	PASS

		25	0	4.98	<13	PASS
16QAM	LCH	1	0	4.97	<13	PASS
		1	12	4.7	<13	PASS
		1	24	4.89	<13	PASS
		12	0	5.78	<13	PASS
		12	6	5.71	<13	PASS
		12	13	5.69	<13	PASS
		25	0	5.63	<13	PASS
	MCH	1	0	6	<13	PASS
		1	12	5.75	<13	PASS
		1	24	5.77	<13	PASS
		12	0	6.15	<13	PASS
		12	6	6.09	<13	PASS
		12	13	6.13	<13	PASS
		25	0	6.21	<13	PASS
	HCH	1	0	4.8	<13	PASS
		1	12	4.86	<13	PASS
		1	24	5.21	<13	PASS
		12	0	5.7	<13	PASS
		12	6	5.71	<13	PASS
		12	13	5.92	<13	PASS
		25	0	5.8	<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	4.01	<13	PASS
		1	24	3.77	<13	PASS
		1	49	4.37	<13	PASS
		25	0	4.8	<13	PASS
		25	12	4.78	<13	PASS
		25	25	4.98	<13	PASS
		50	0	4.96	<13	PASS
	MCH	1	0	4.69	<13	PASS
		1	24	4.63	<13	PASS
		1	49	4.54	<13	PASS
		25	0	5.48	<13	PASS
		25	12	5.4	<13	PASS
		25	25	5.33	<13	PASS
		50	0	5.51	<13	PASS

		1	0	3.98	<13	PASS
		1	24	3.83	<13	PASS
		1	49	4.38	<13	PASS
	HCH	25	0	4.7	<13	PASS
		25	12	4.75	<13	PASS
		25	25	4.94	<13	PASS
		50	0	4.92	<13	PASS
16QAM	LCH	1	0	4.88	<13	PASS
		1	24	4.69	<13	PASS
		1	49	5.17	<13	PASS
		25	0	5.63	<13	PASS
		25	12	5.63	<13	PASS
		25	25	5.7	<13	PASS
		50	0	5.75	<13	PASS
	MCH	1	0	5.66	<13	PASS
		1	24	5.57	<13	PASS
		1	49	5.53	<13	PASS
		25	0	6.32	<13	PASS
		25	12	6.2	<13	PASS
		25	25	6.16	<13	PASS
		50	0	6.28	<13	PASS
	HCH	1	0	4.95	<13	PASS
		1	24	4.82	<13	PASS
		1	49	5.25	<13	PASS
		25	0	5.64	<13	PASS
		25	12	5.67	<13	PASS
		25	25	5.86	<13	PASS
		50	0	5.77	<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	4.12	<13	PASS
		1	37	3.92	<13	PASS
		1	74	5.11	<13	PASS
		37	0	4.71	<13	PASS
		37	18	4.87	<13	PASS
		37	38	5.35	<13	PASS
		75	0	5.46	<13	PASS
	MCH	1	0	5.04	<13	PASS

		1	37	4.6	<13	PASS
		1	74	4.61	<13	PASS
		37	0	5.46	<13	PASS
		37	18	5.36	<13	PASS
		37	38	5.34	<13	PASS
		75	0	5.81	<13	PASS
		1	0	4.37	<13	PASS
		1	37	3.77	<13	PASS
		1	74	4.34	<13	PASS
		37	0	4.89	<13	PASS
		37	18	4.75	<13	PASS
		37	38	4.9	<13	PASS
		75	0	5.25	<13	PASS
16QAM	LCH	1	0	4.95	<13	PASS
		1	37	4.83	<13	PASS
		1	74	5.88	<13	PASS
		37	0	5.64	<13	PASS
		37	18	5.75	<13	PASS
		37	38	6.24	<13	PASS
		75	0	6.07	<13	PASS
	MCH	1	0	5.91	<13	PASS
		1	37	5.81	<13	PASS
		1	74	5.59	<13	PASS
		37	0	6.34	<13	PASS
		37	18	6.25	<13	PASS
		37	38	6.23	<13	PASS
		75	0	6.36	<13	PASS
	HCH	1	0	5.29	<13	PASS
		1	37	4.73	<13	PASS
		1	74	5.28	<13	PASS
		37	0	5.73	<13	PASS
		37	18	5.61	<13	PASS
		37	38	5.79	<13	PASS
		75	0	5.93	<13	PASS

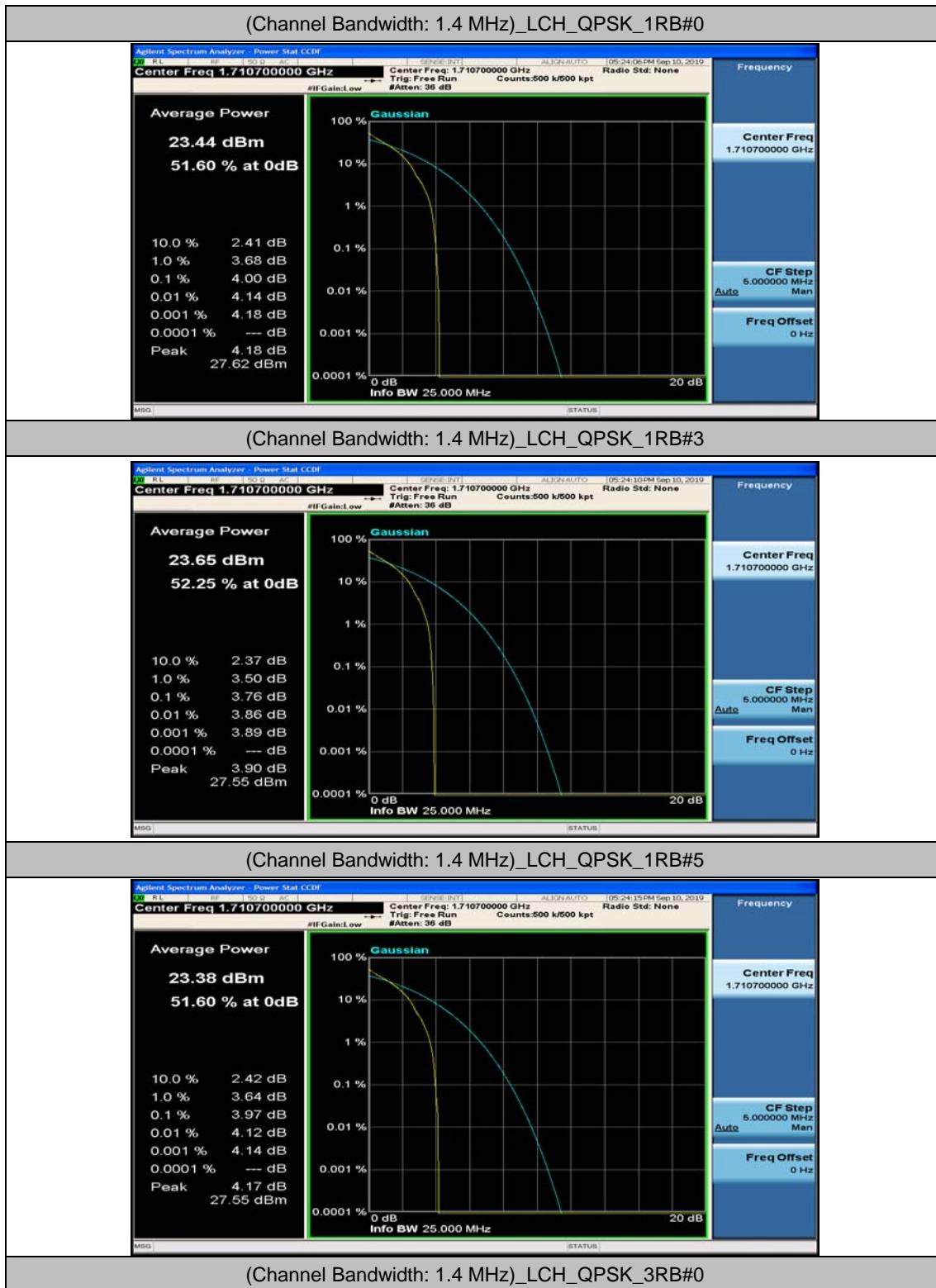
Channel Bandwidth: 20 MHz

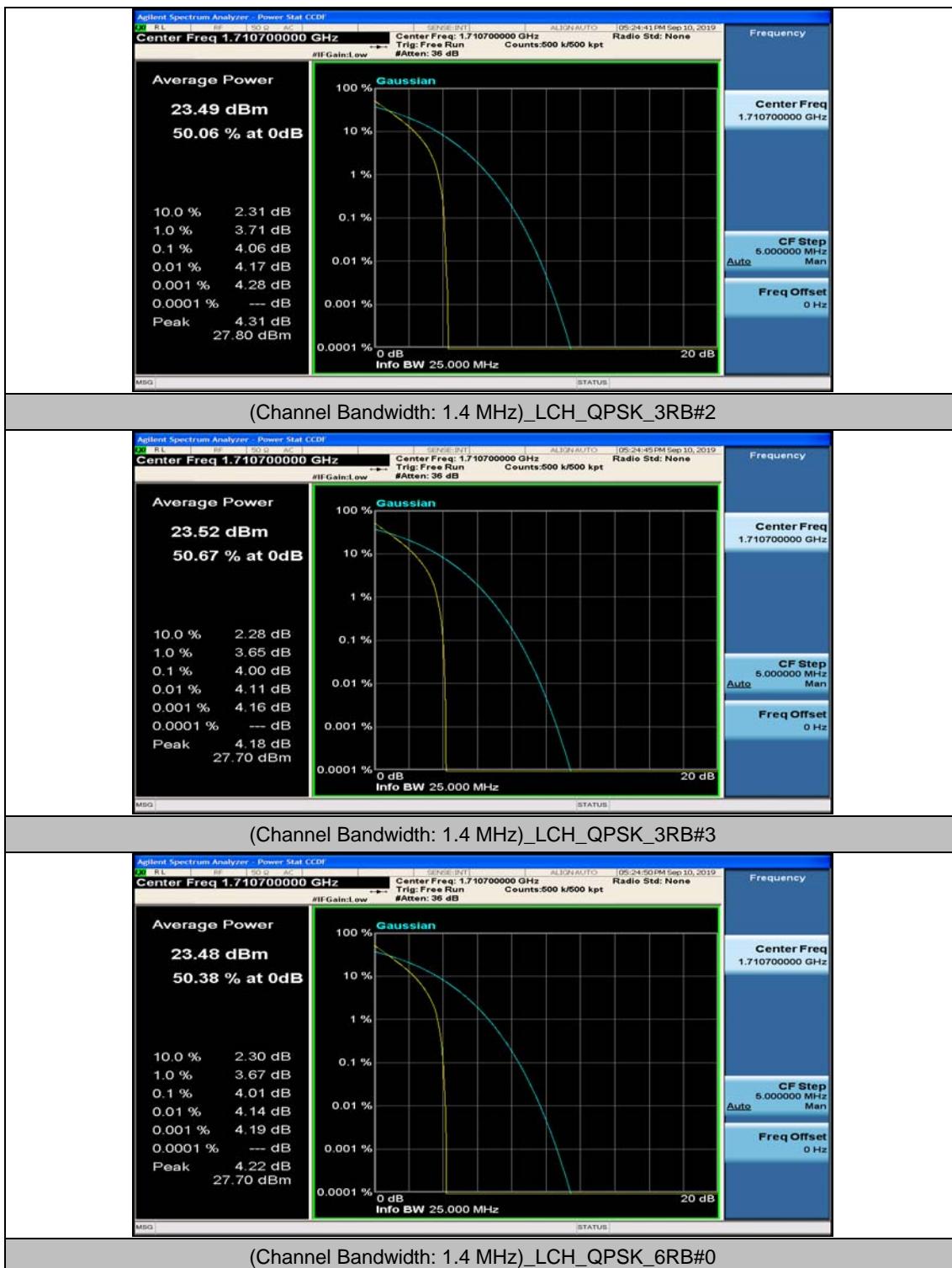
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.12	<13	PASS
		1	49	4.29	<13	PASS

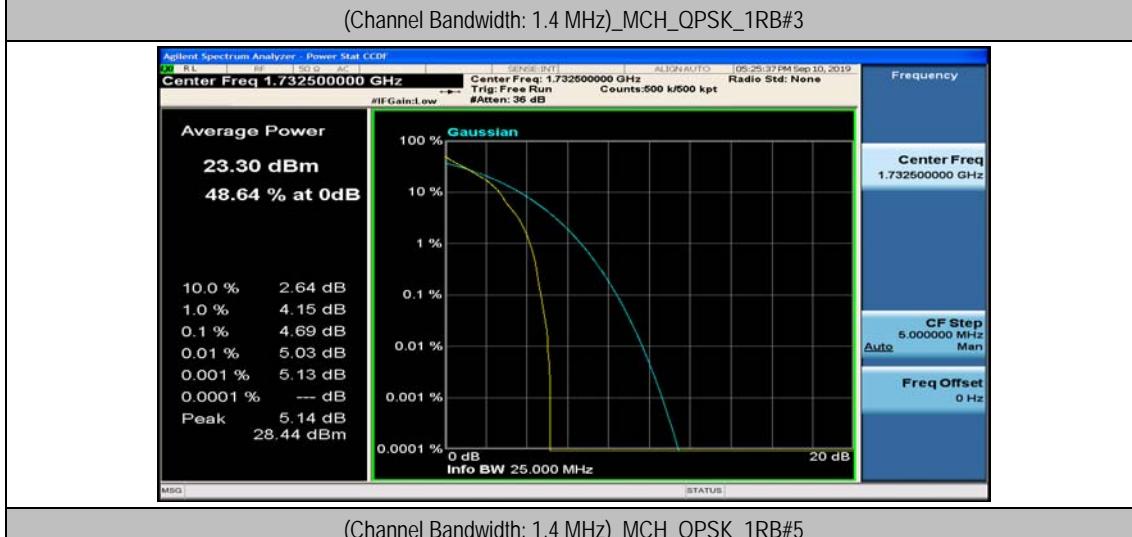
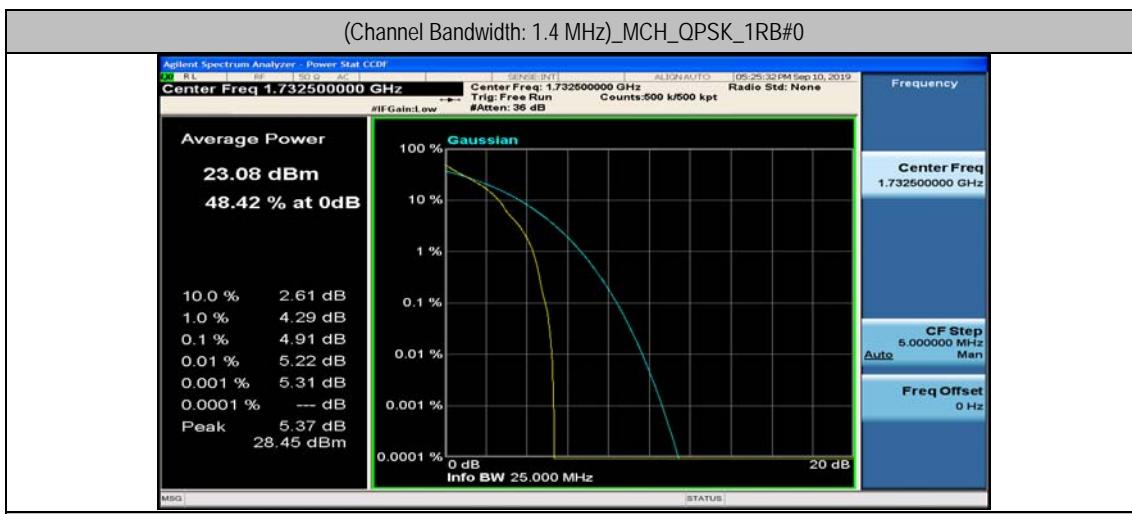
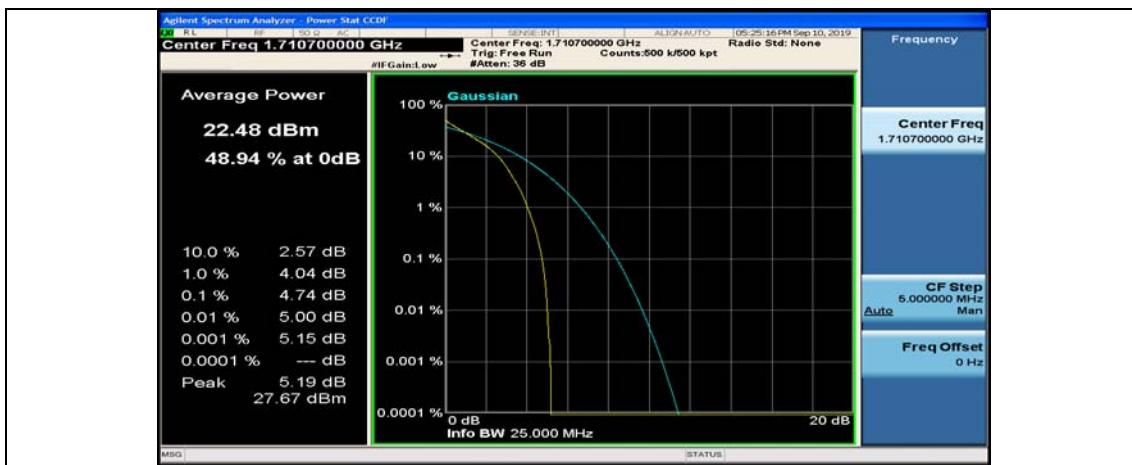
		1	99	4.83	<13	PASS
		50	0	4.96	<13	PASS
		50	25	5.31	<13	PASS
		50	50	5.65	<13	PASS
		100	0	5.49	<13	PASS
	MCH	1	0	5.13	<13	PASS
		1	49	4.79	<13	PASS
		1	99	4.53	<13	PASS
		50	0	5.54	<13	PASS
		50	25	5.47	<13	PASS
		50	50	5.31	<13	PASS
		100	0	5.68	<13	PASS
16QAM	HCH	1	0	4.82	<13	PASS
		1	49	3.96	<13	PASS
		1	99	4.45	<13	PASS
		50	0	5.22	<13	PASS
		50	25	4.92	<13	PASS
		50	50	4.98	<13	PASS
		100	0	5.23	<13	PASS
	LCH	1	0	4.93	<13	PASS
		1	49	5.09	<13	PASS
		1	99	5.74	<13	PASS
		50	0	5.78	<13	PASS
		50	25	6.04	<13	PASS
		50	50	6.41	<13	PASS
		100	0	6.18	<13	PASS
	MCH	1	0	5.72	<13	PASS
		1	49	5.47	<13	PASS
		1	99	5.18	<13	PASS
		50	0	6.28	<13	PASS
		50	25	6.24	<13	PASS
		50	50	6.14	<13	PASS
		100	0	6.4	<13	PASS
	HCH	1	0	5.89	<13	PASS
		1	49	4.87	<13	PASS
		1	99	5.35	<13	PASS
		50	0	6.03	<13	PASS
		50	25	5.74	<13	PASS
		50	50	5.85	<13	PASS
		100	0	6.04	<13	PASS

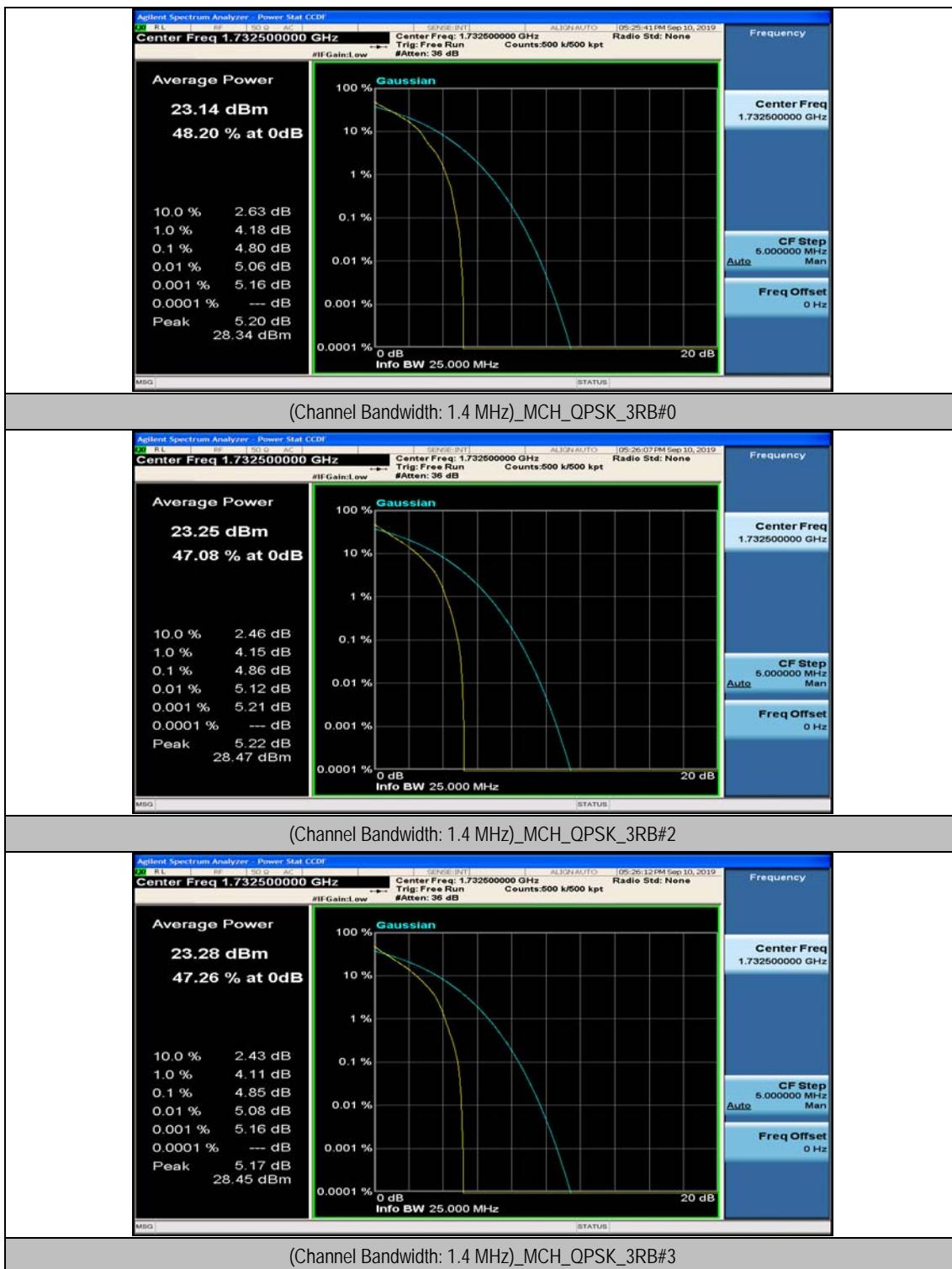
Test Graphs

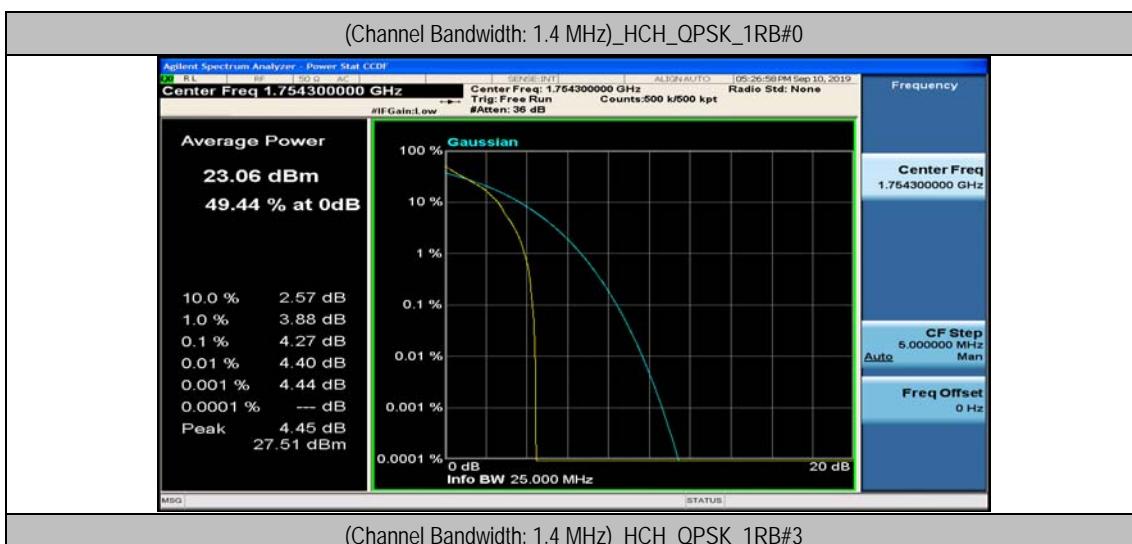
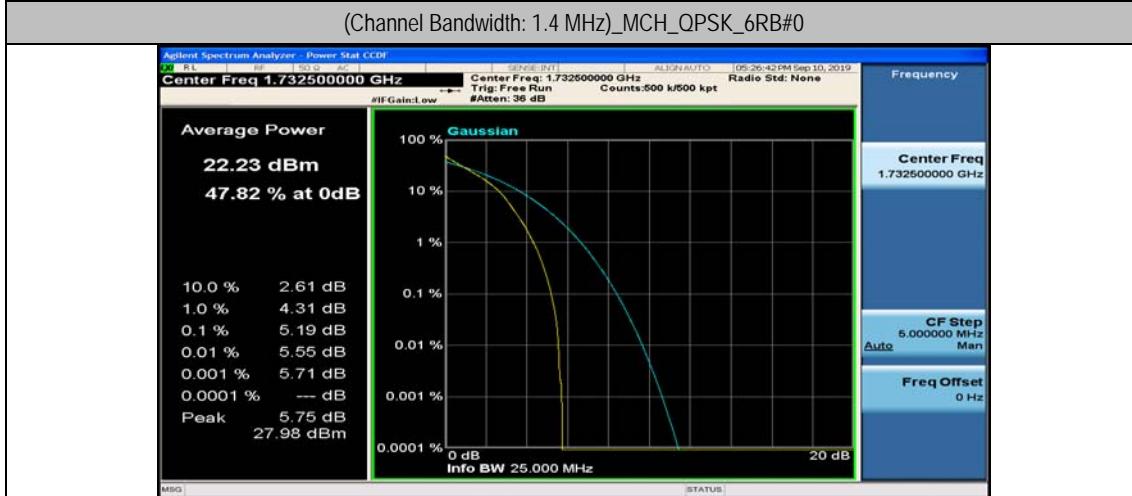
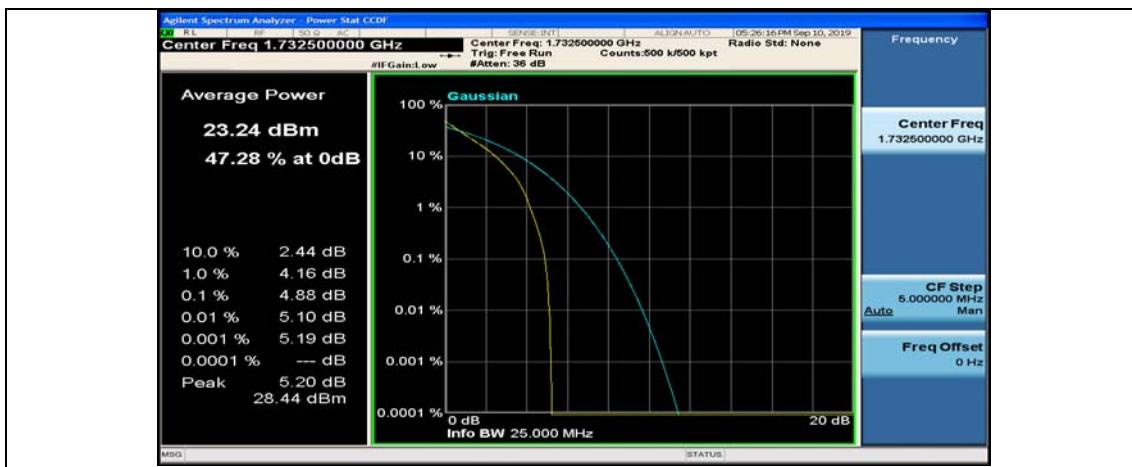
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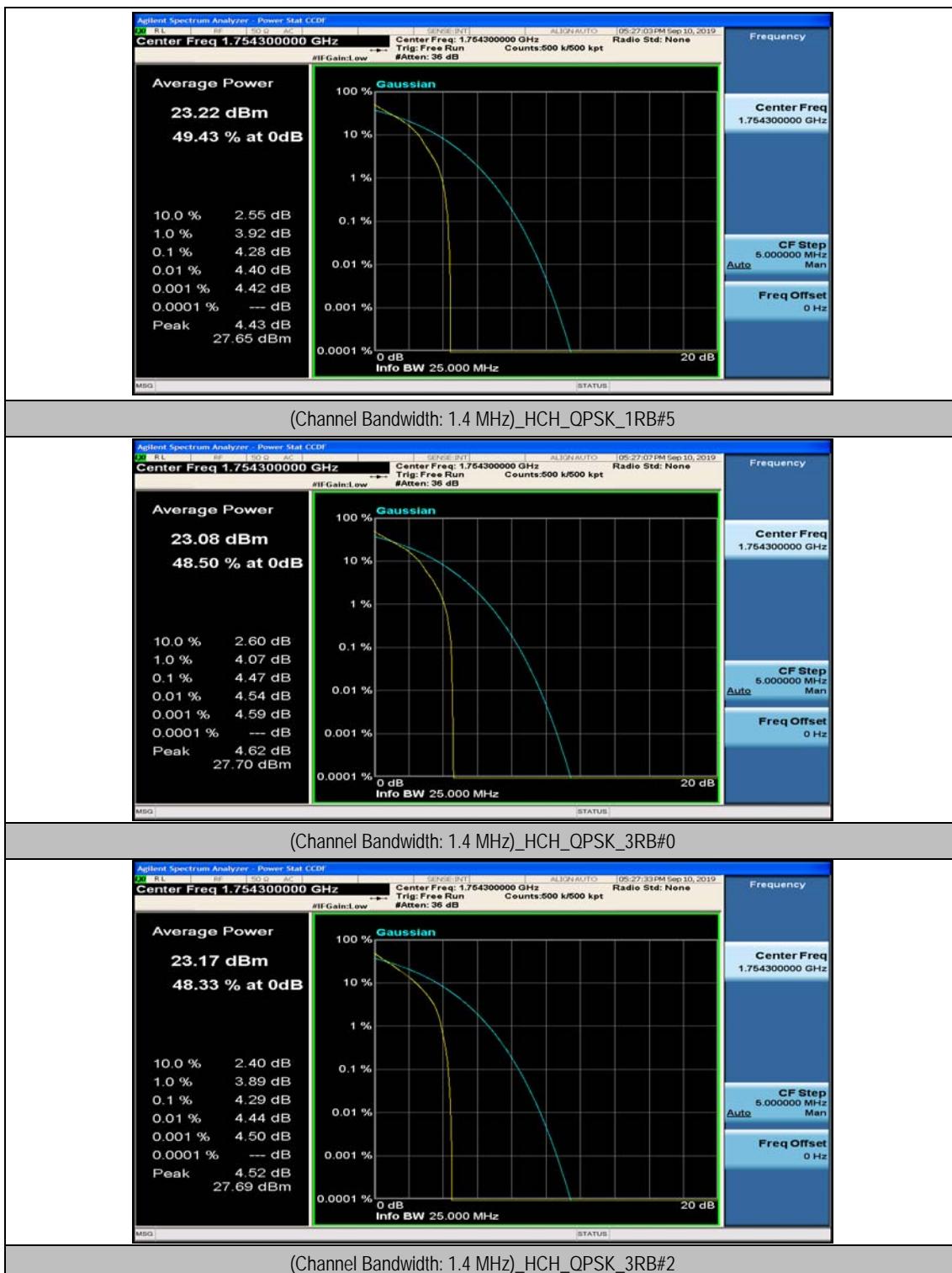


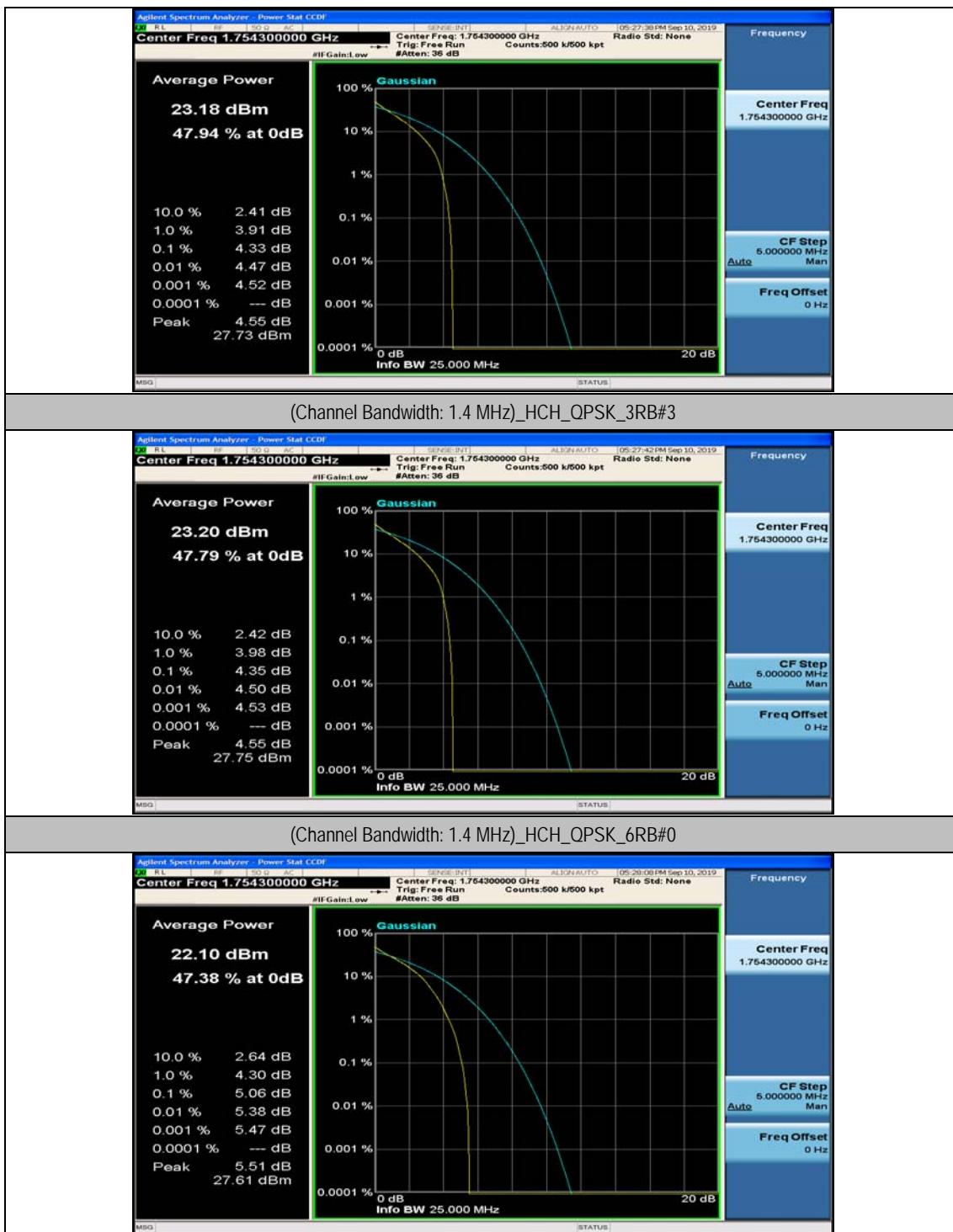


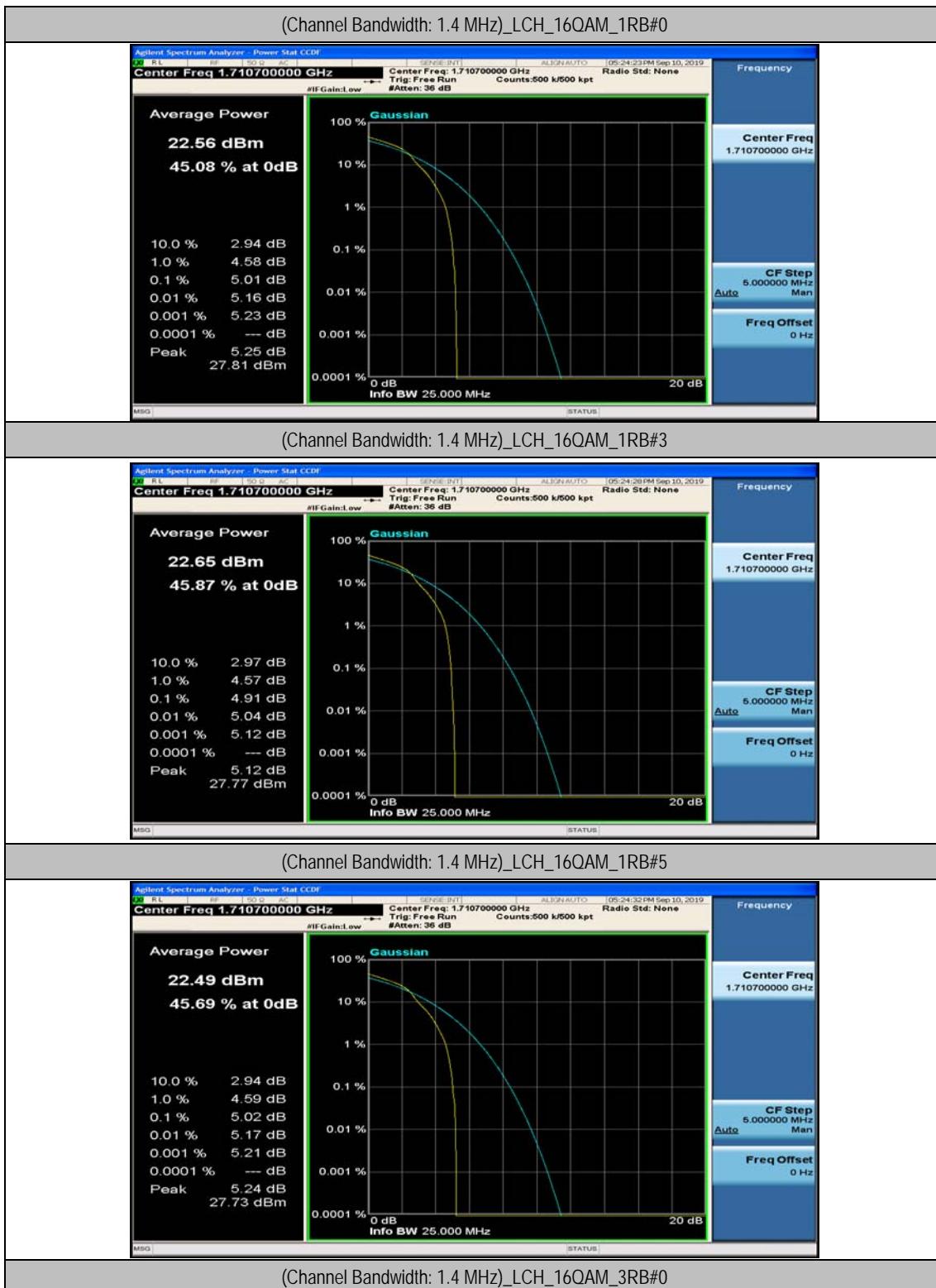


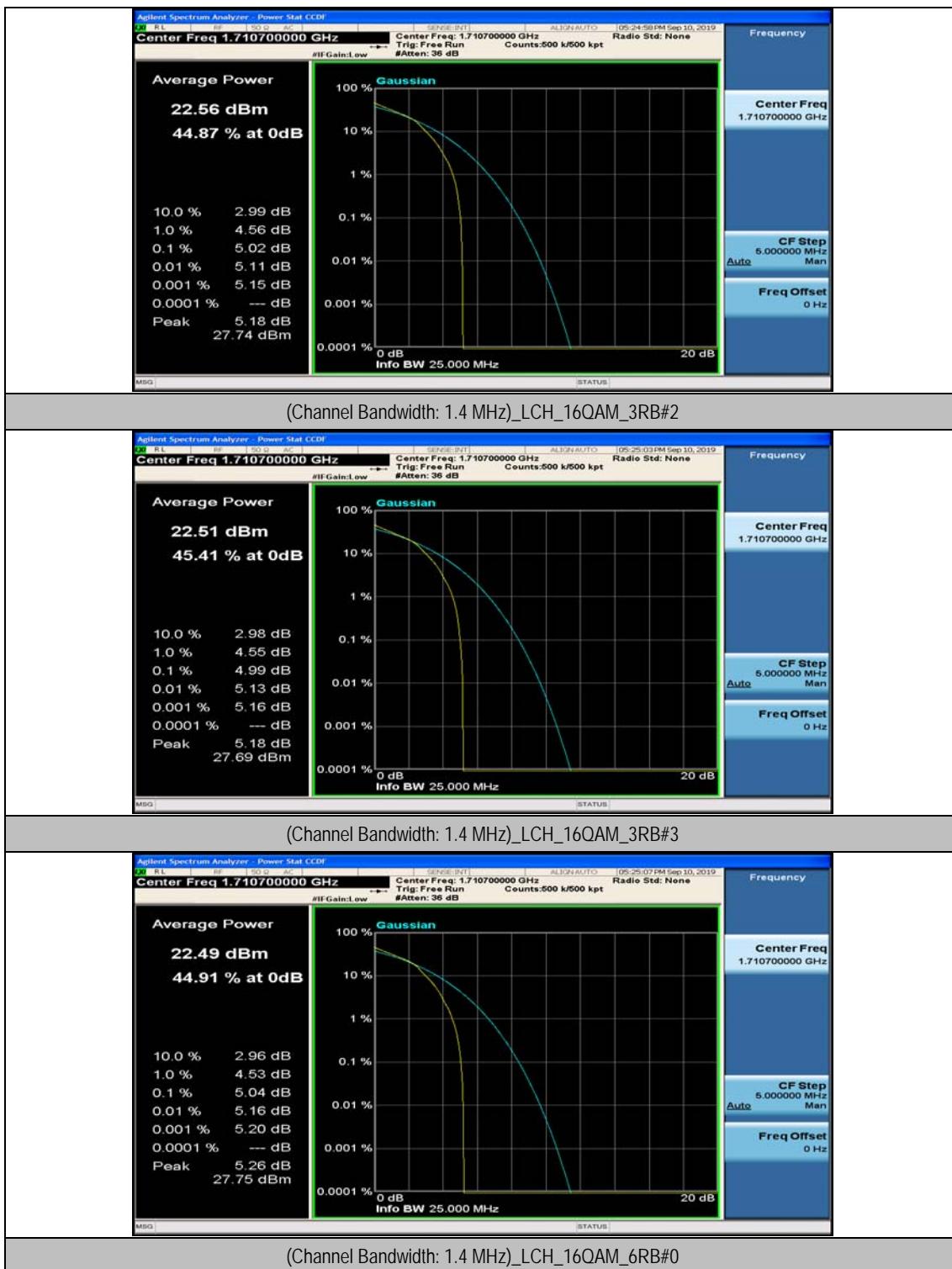


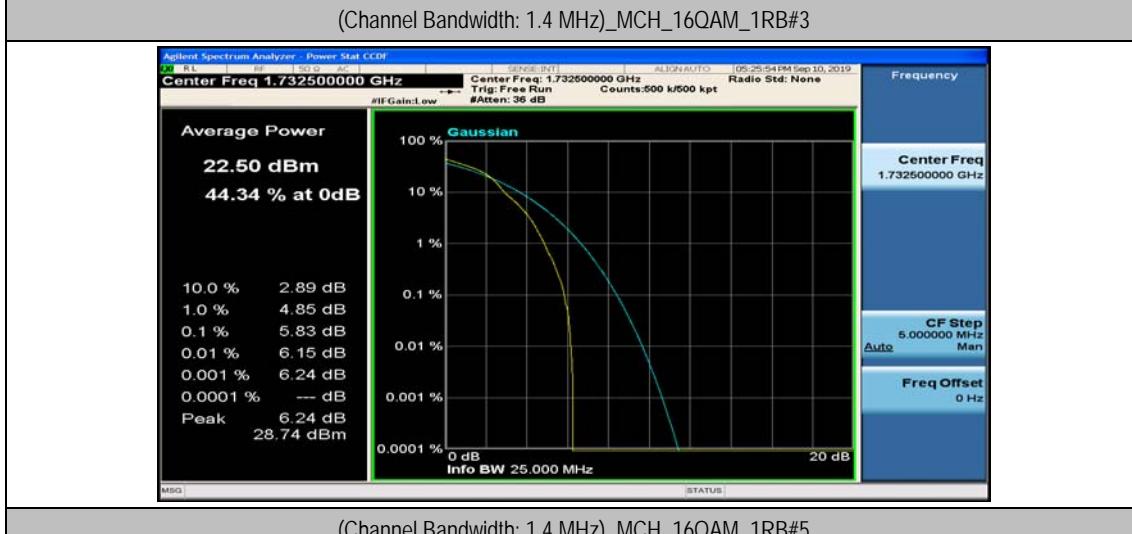
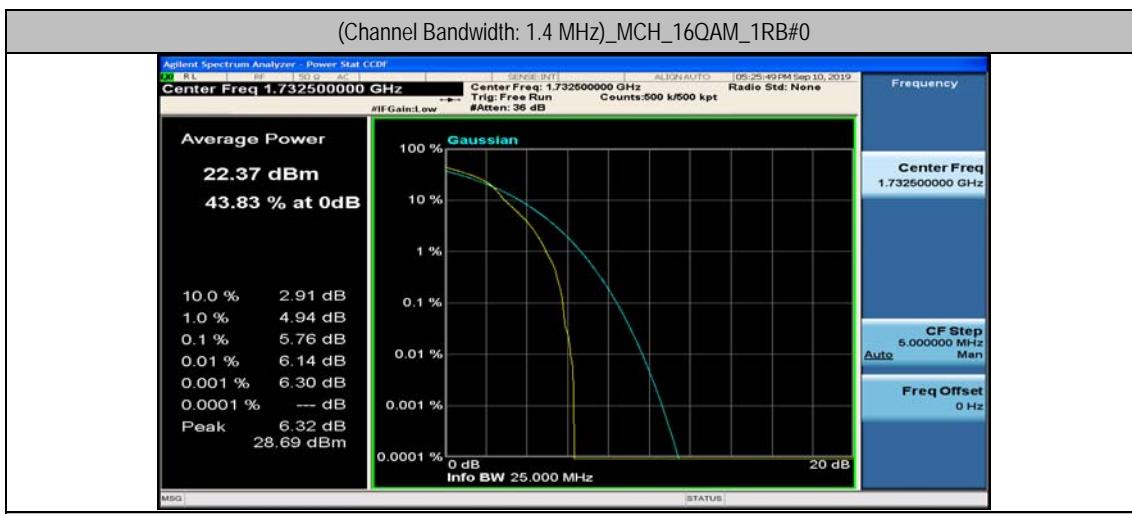
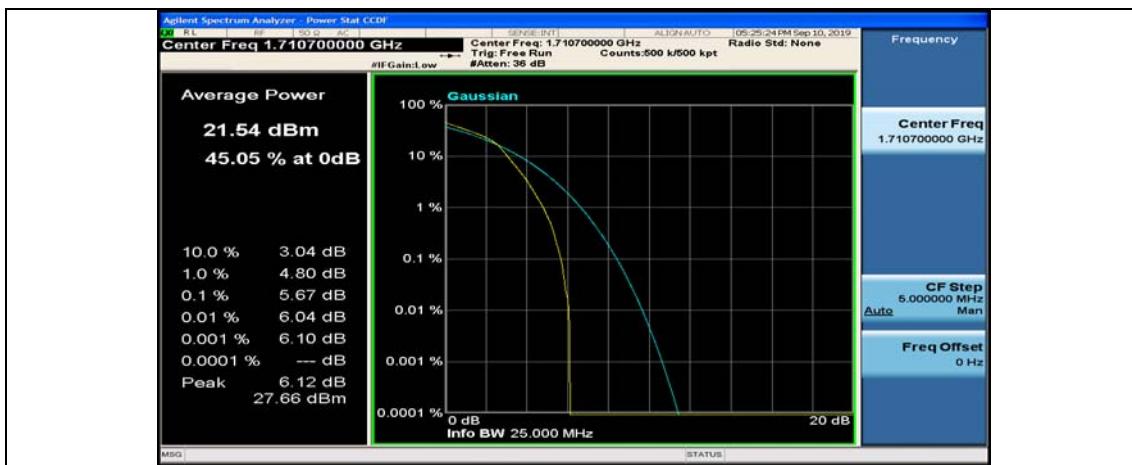


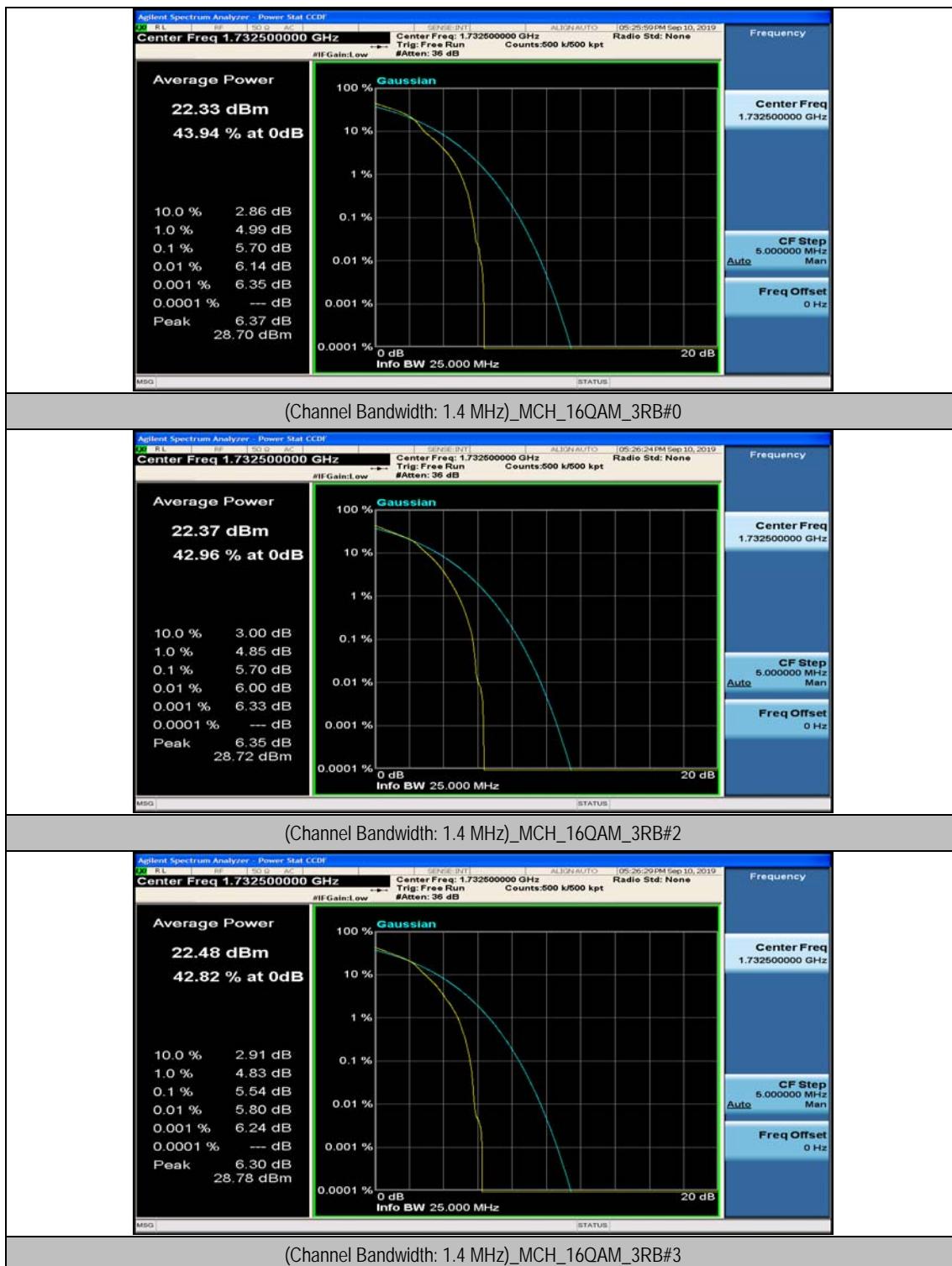


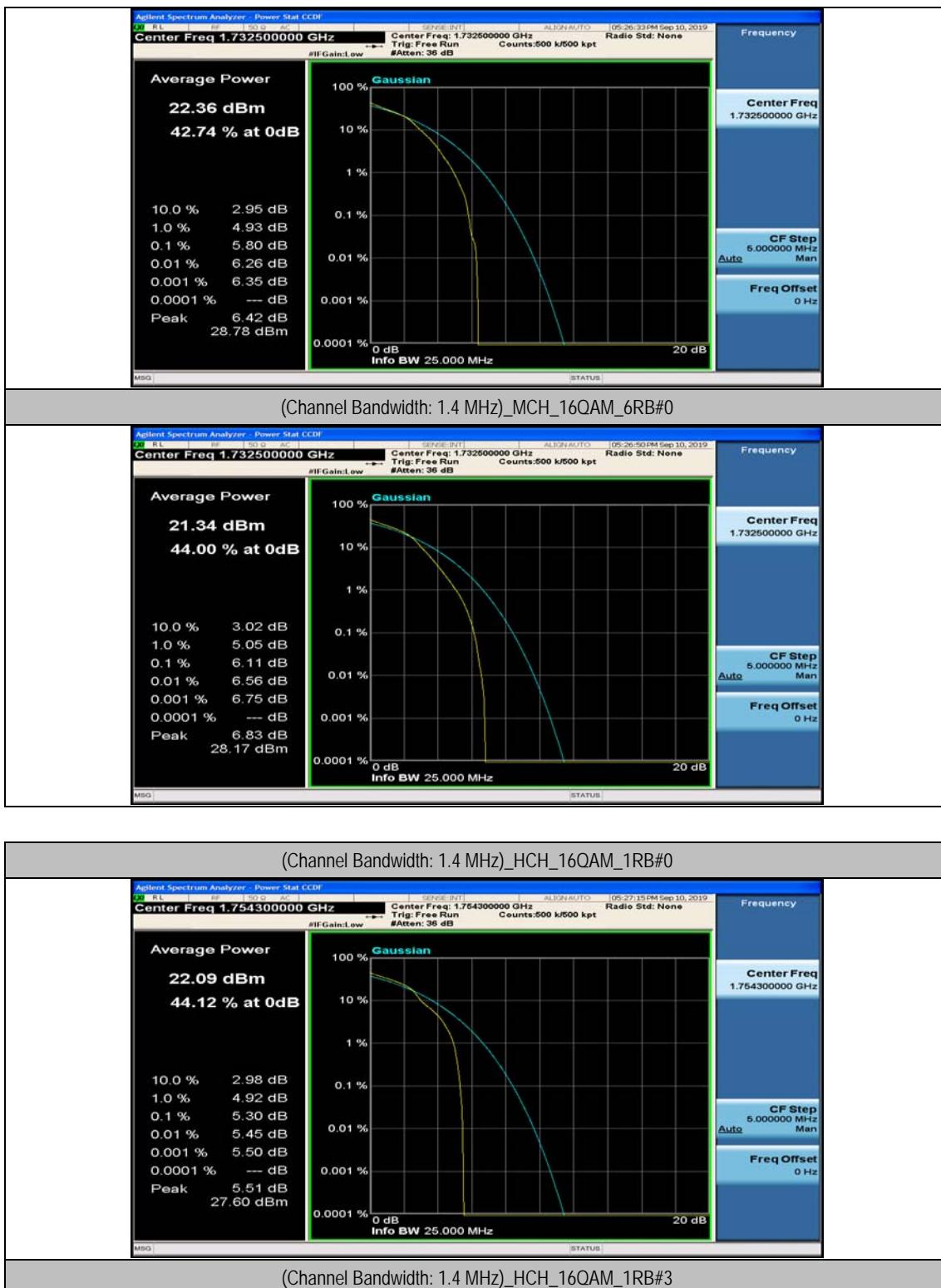


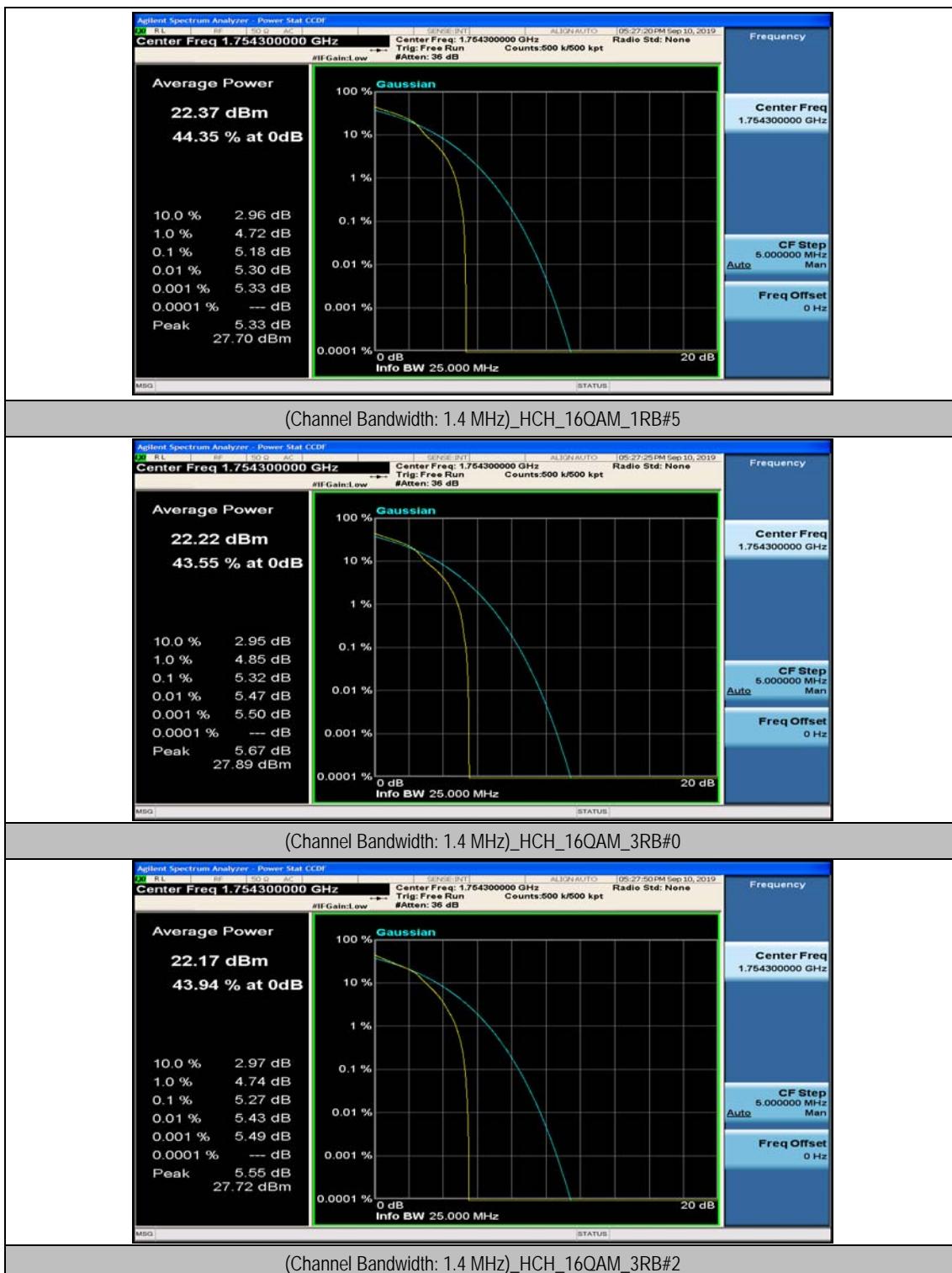


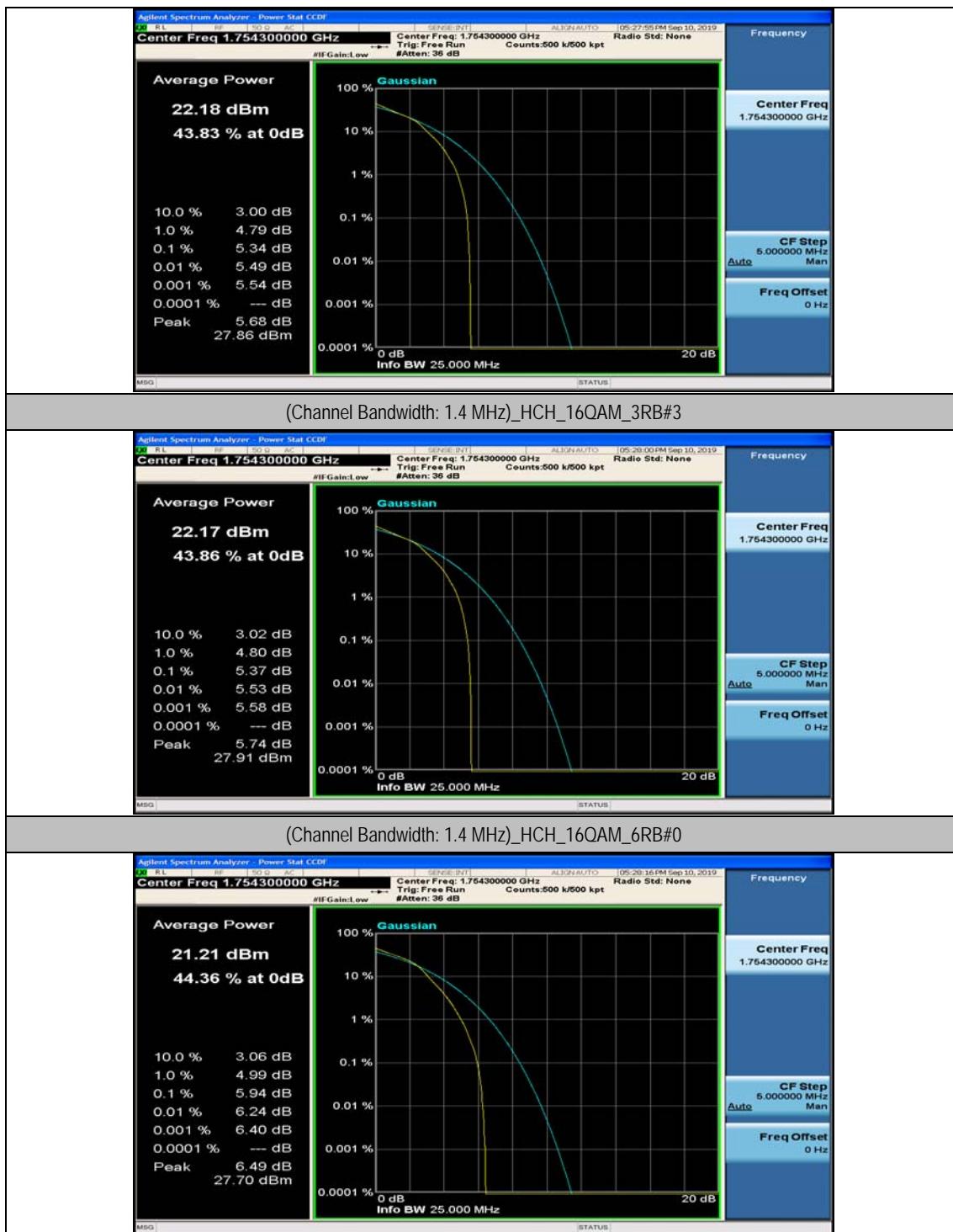




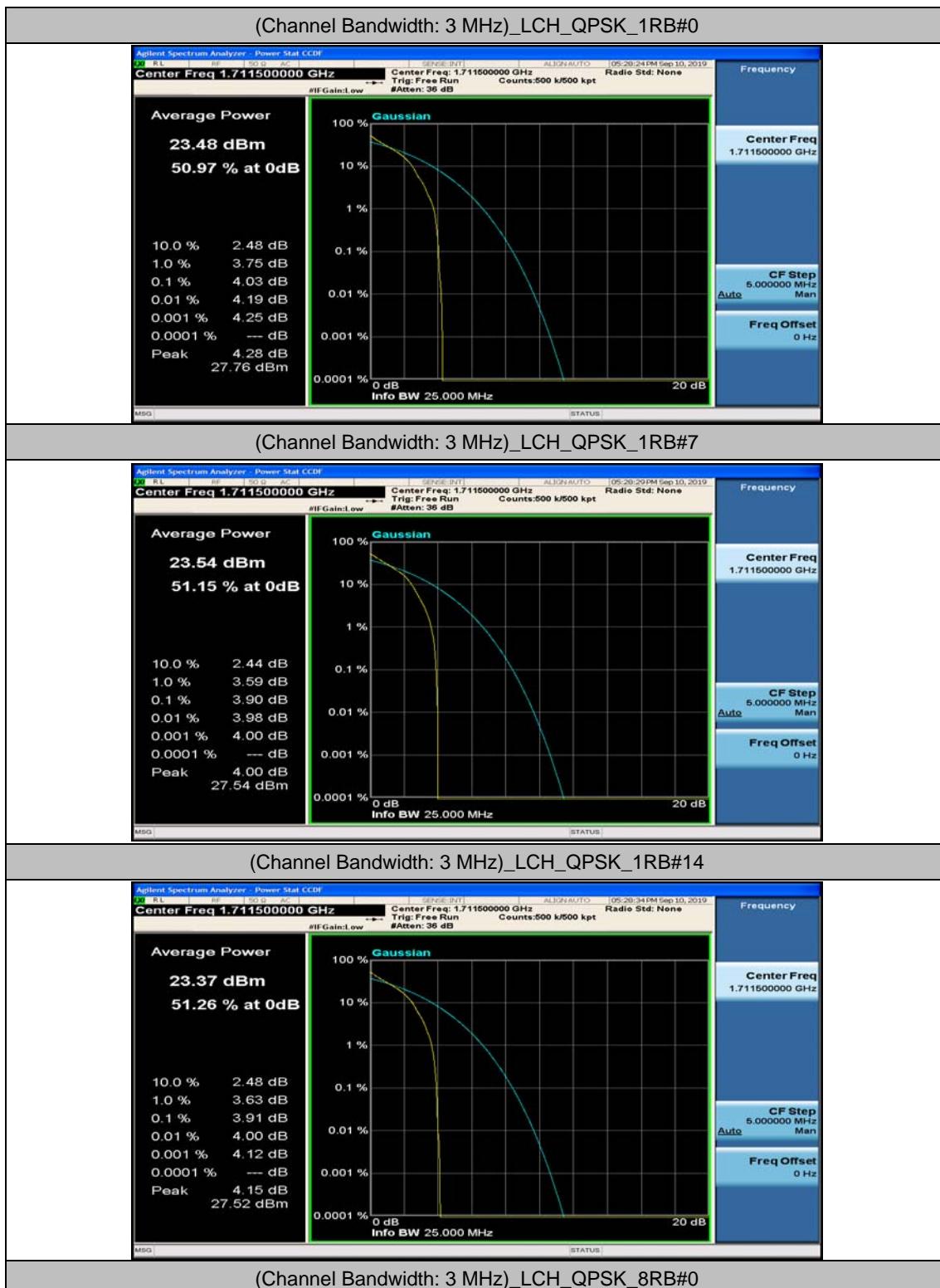


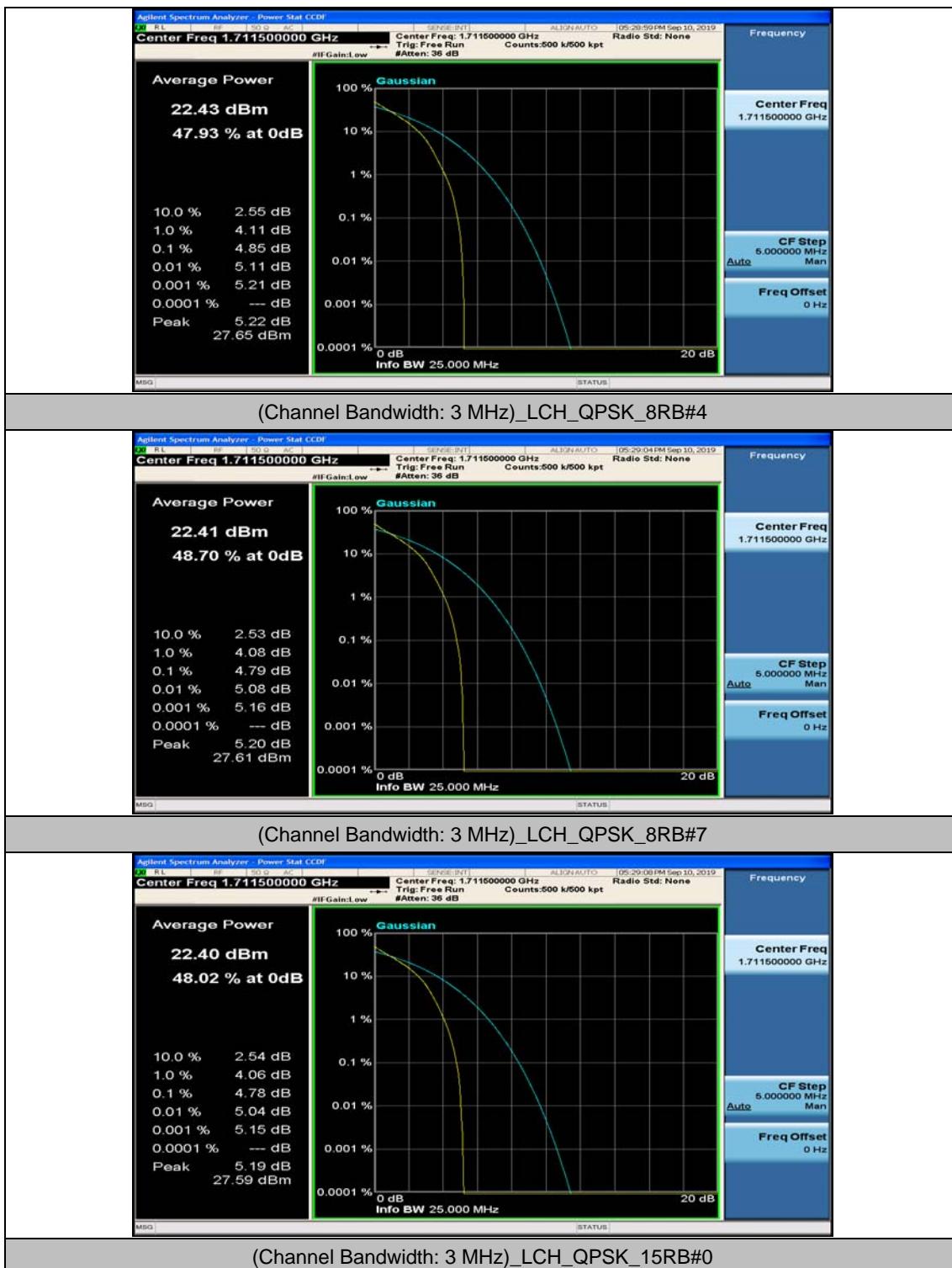


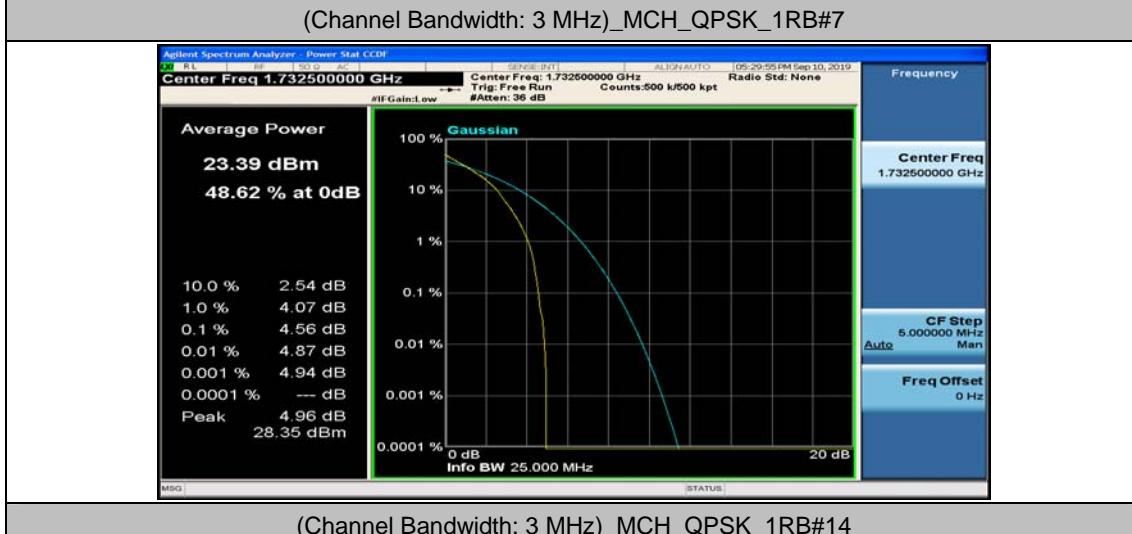
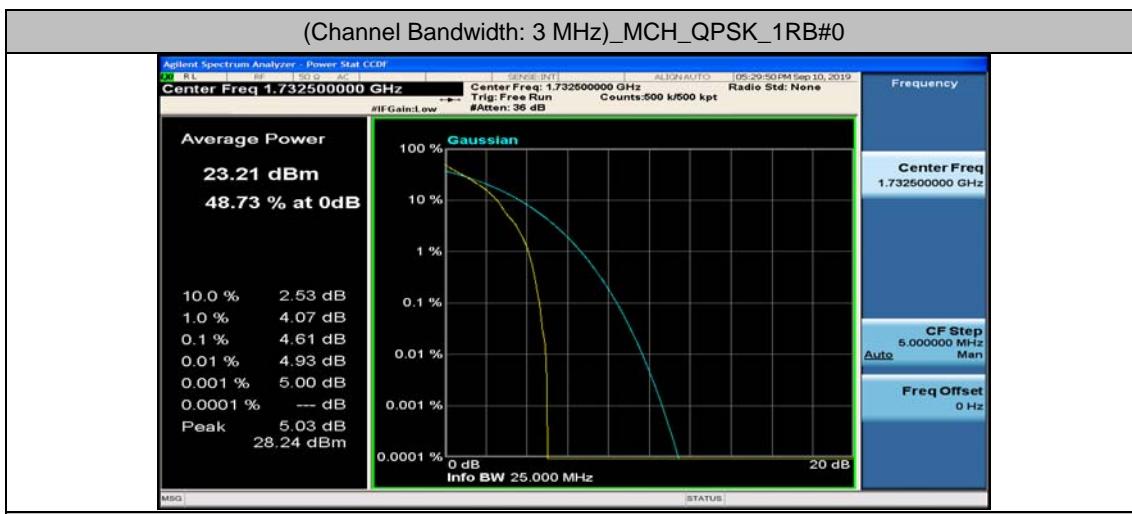
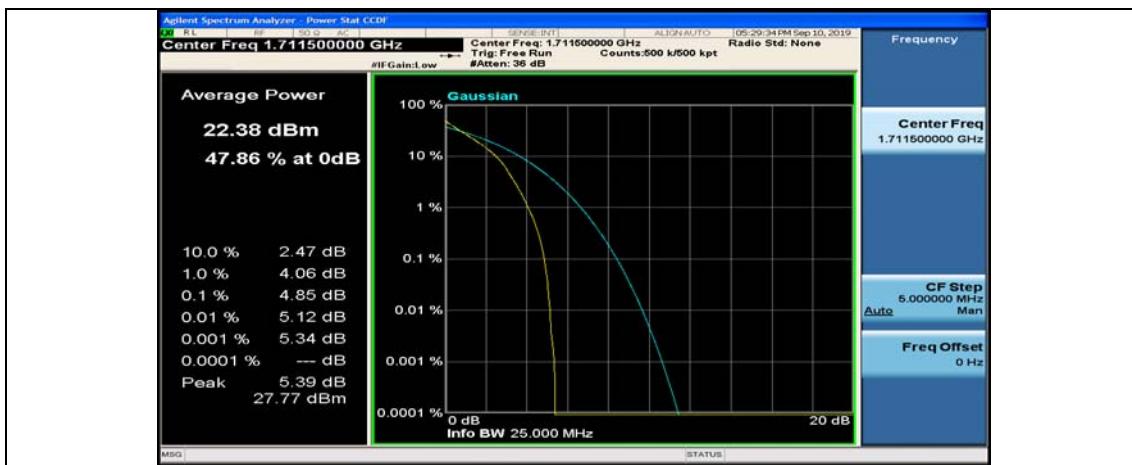




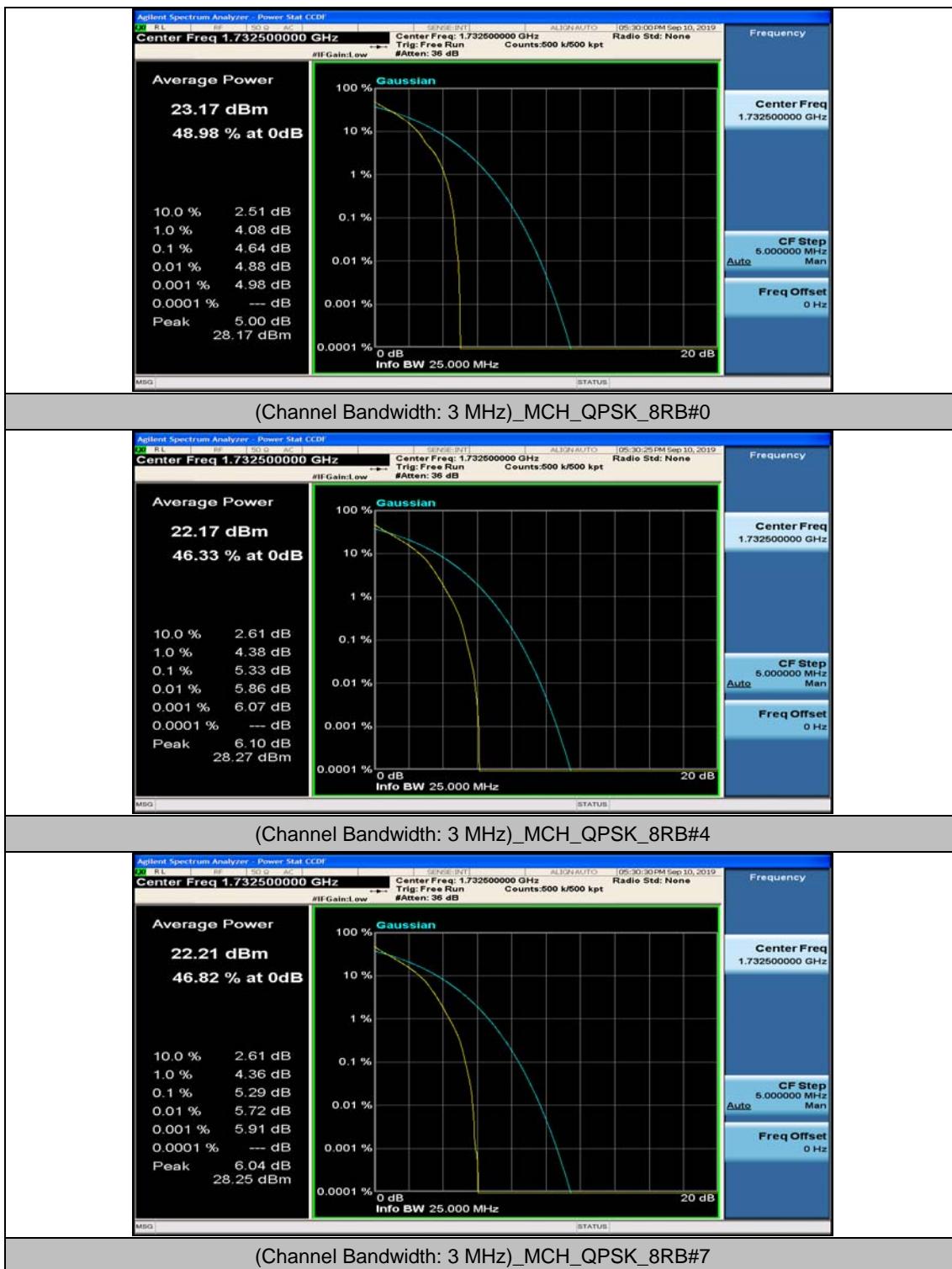
Channel Bandwidth: 3 MHz

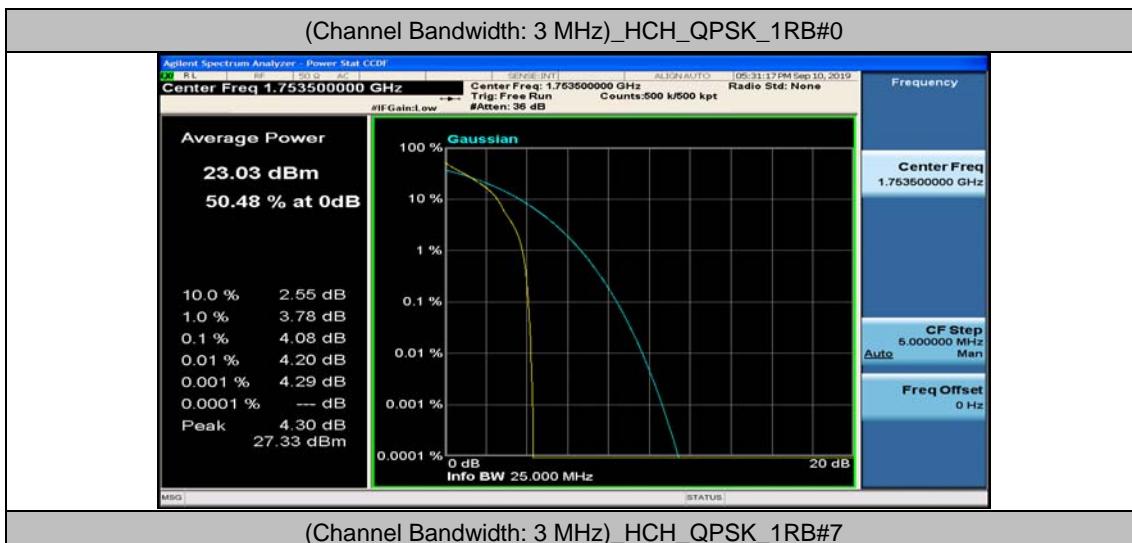
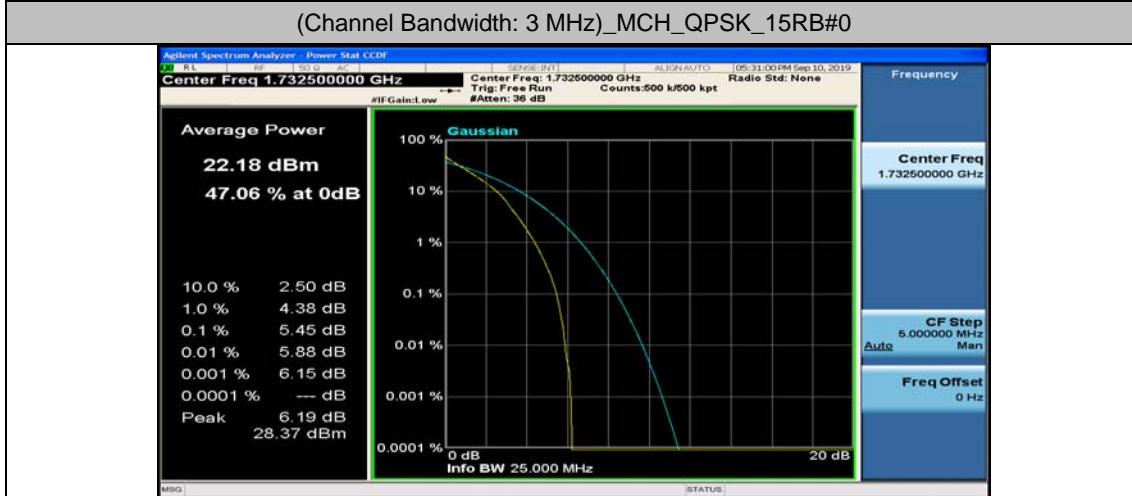
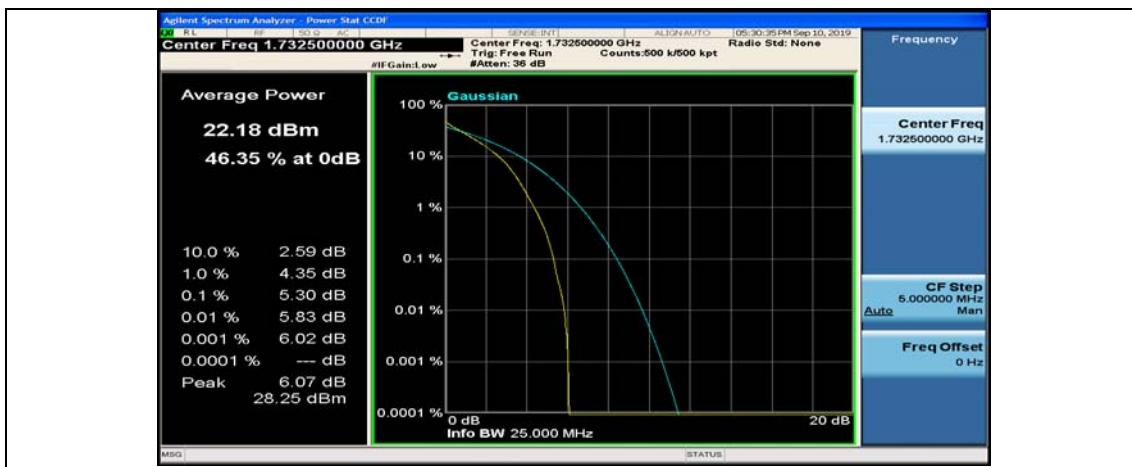


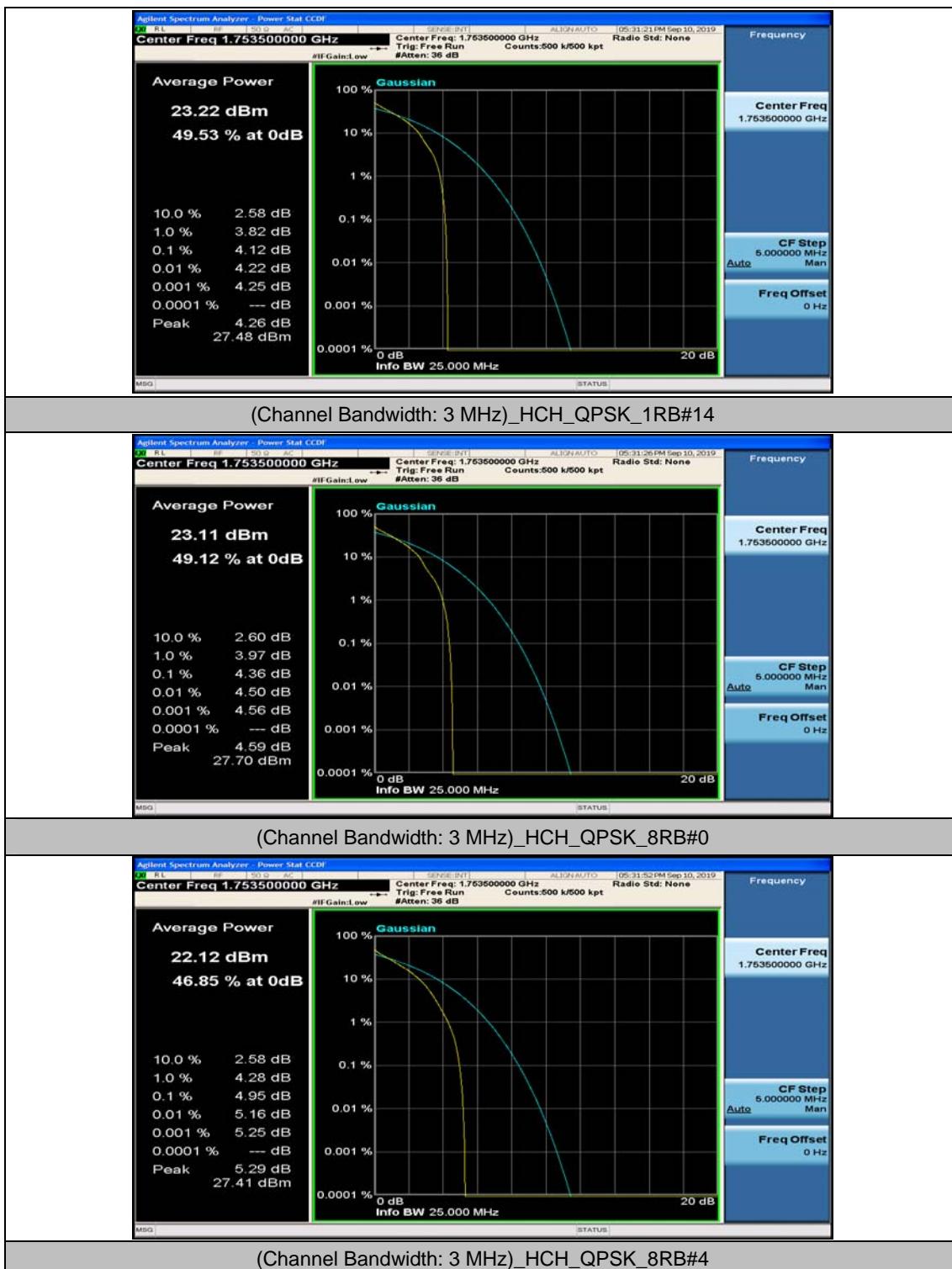


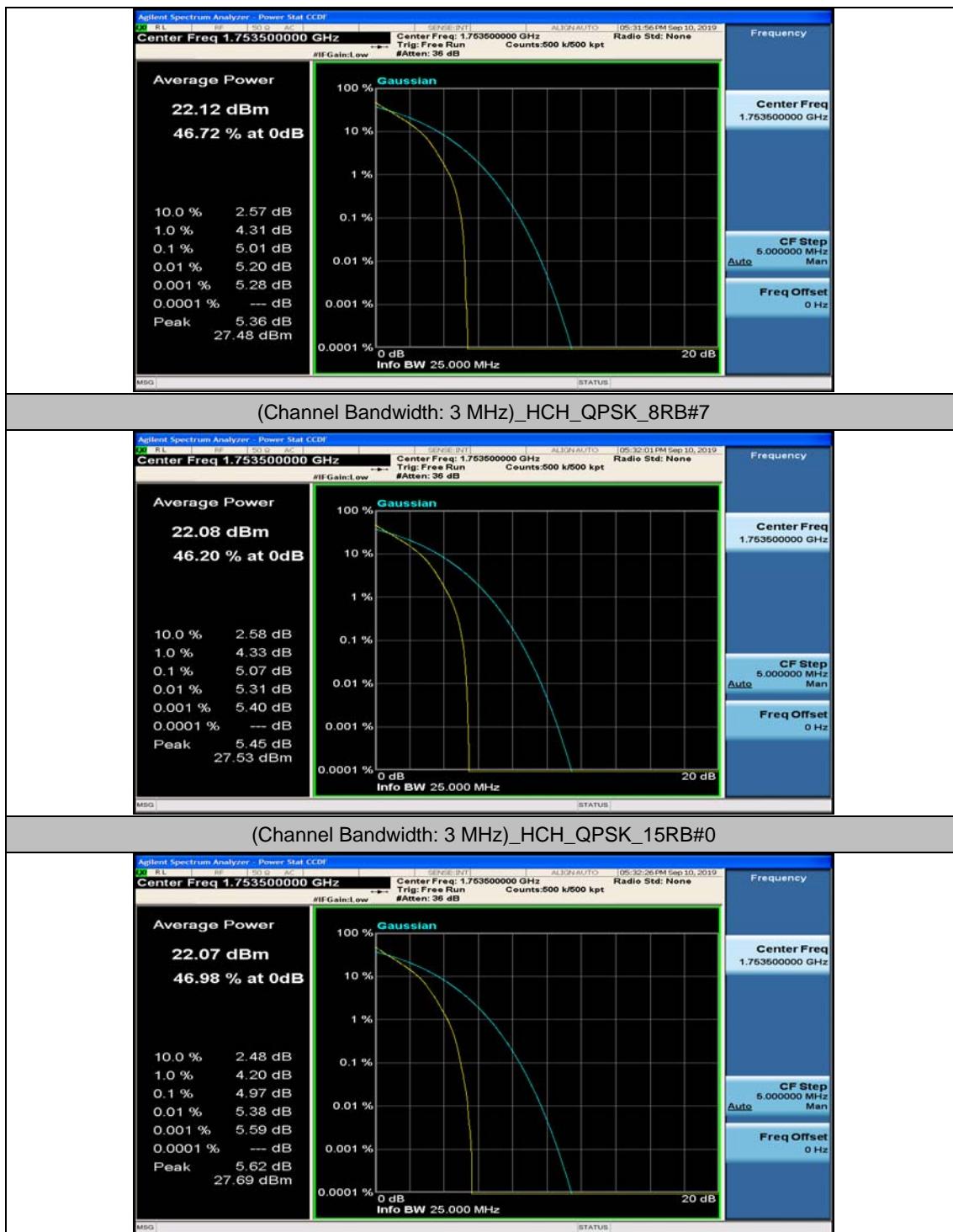


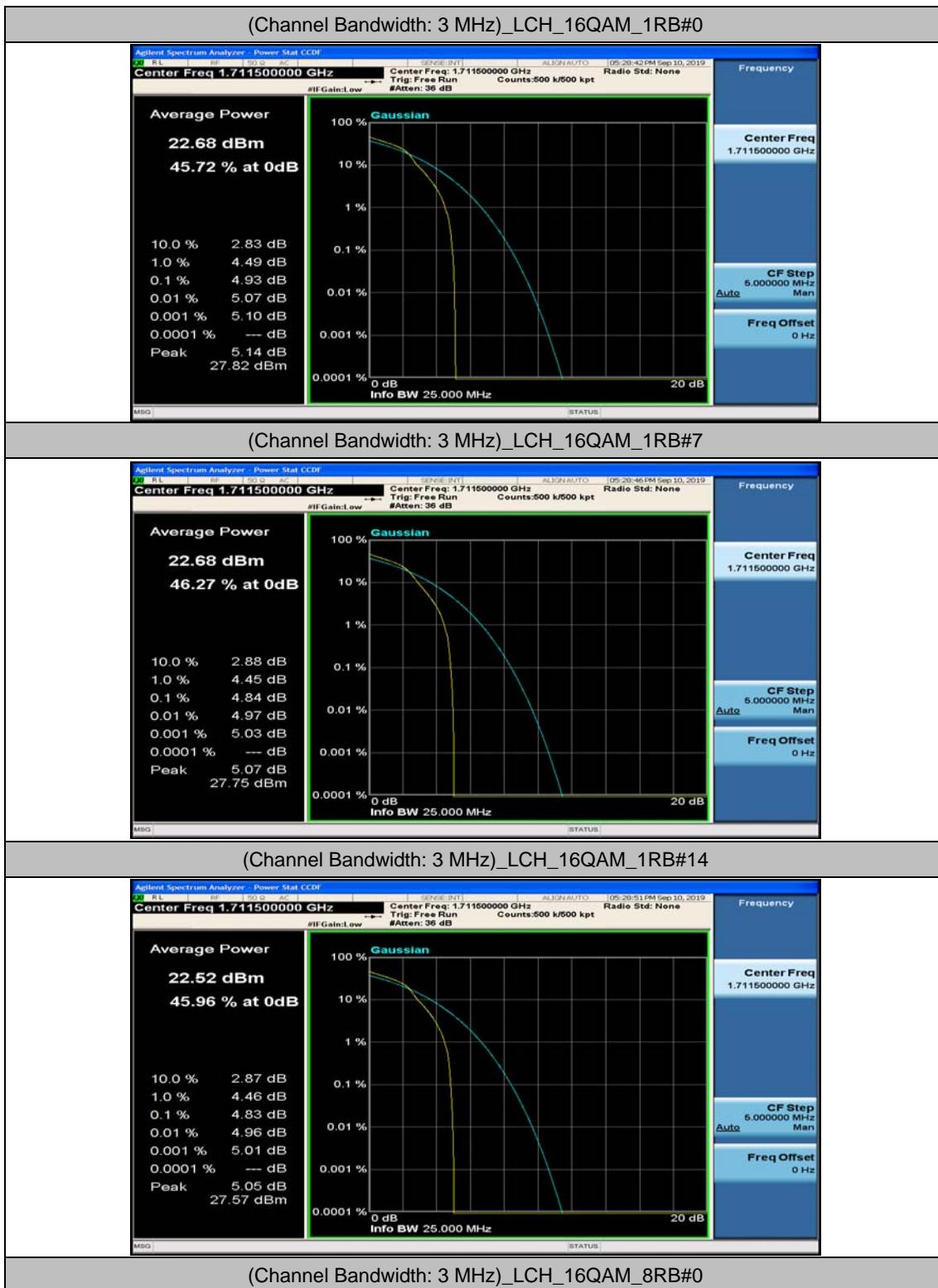
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14

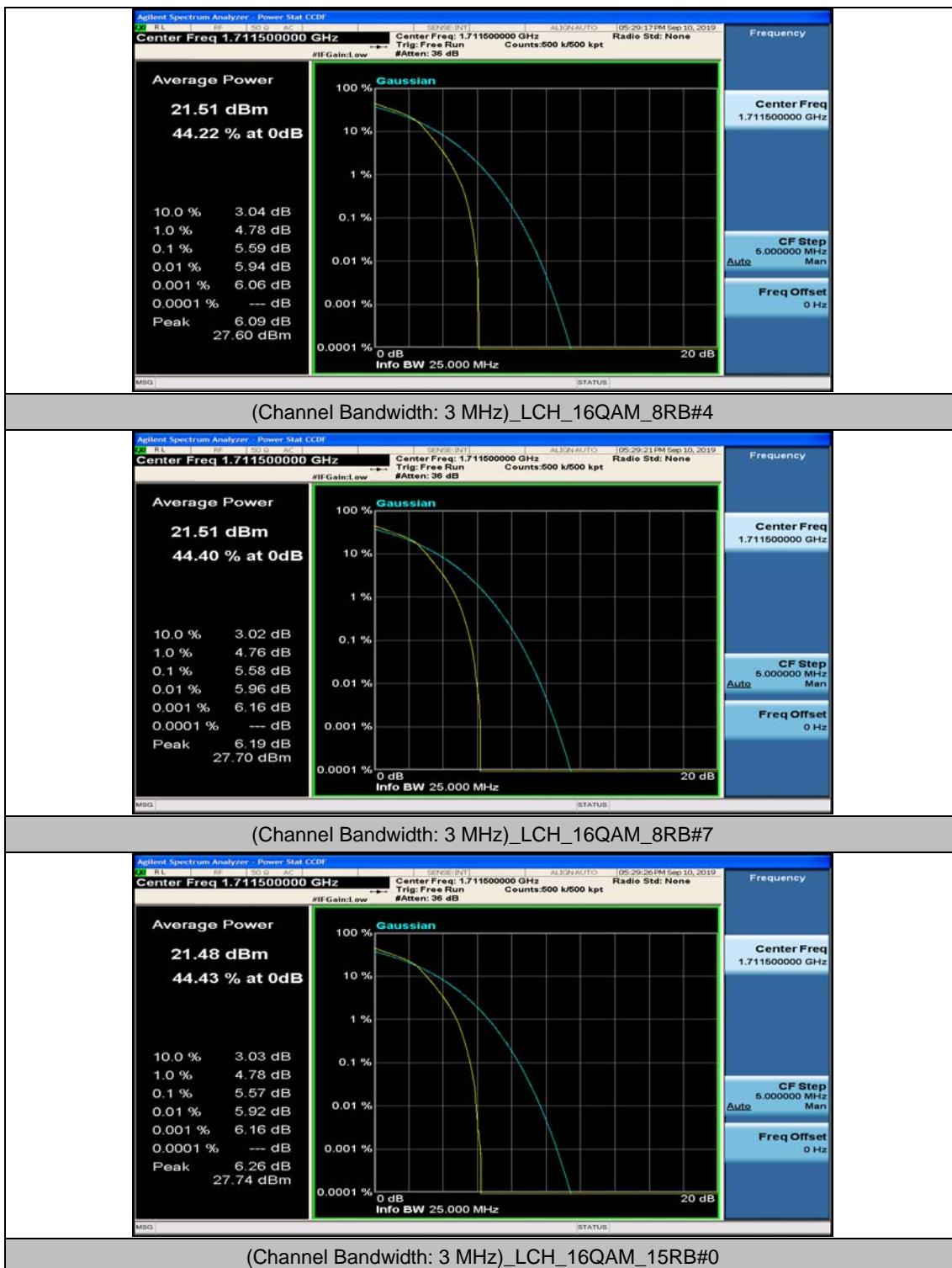


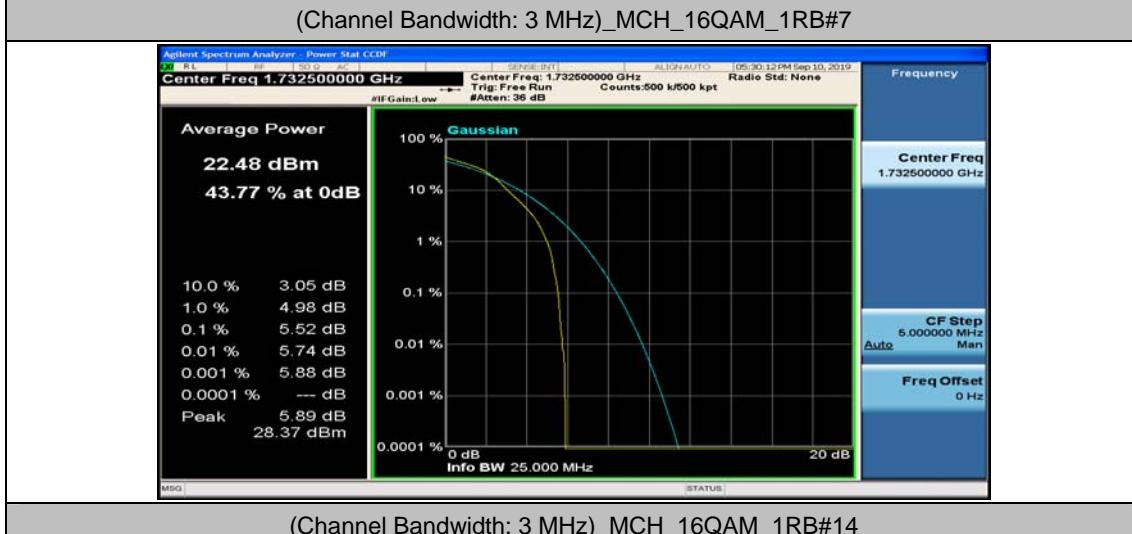
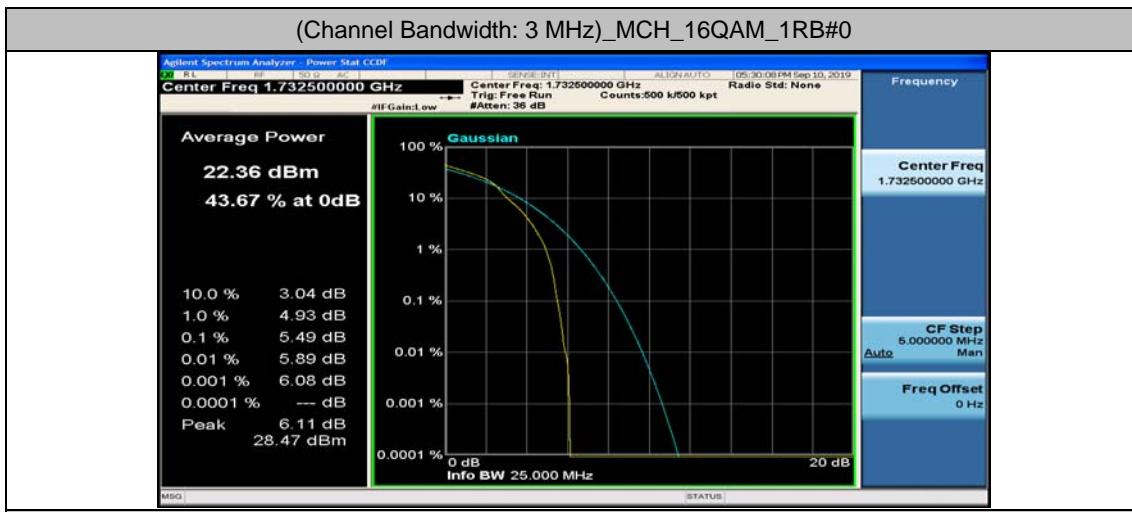
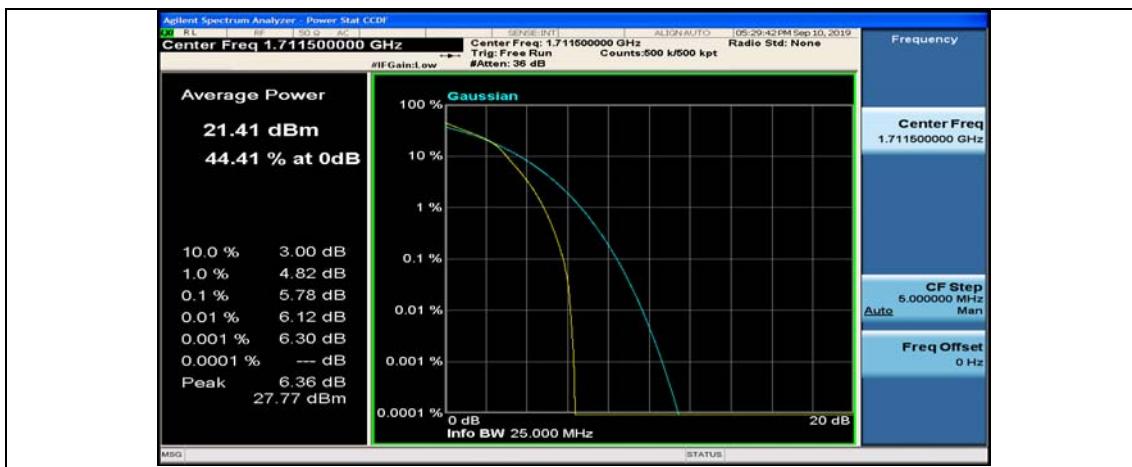


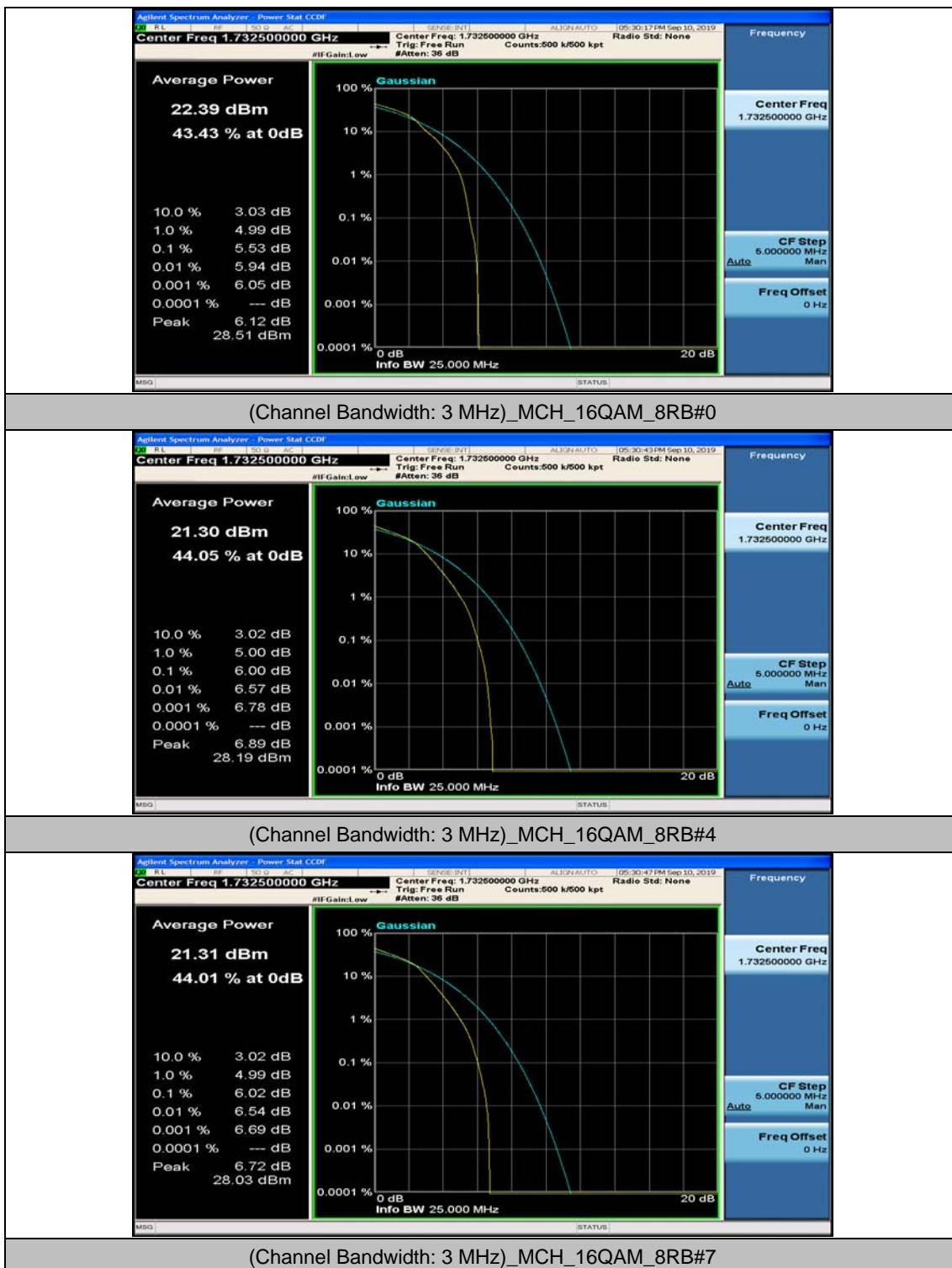


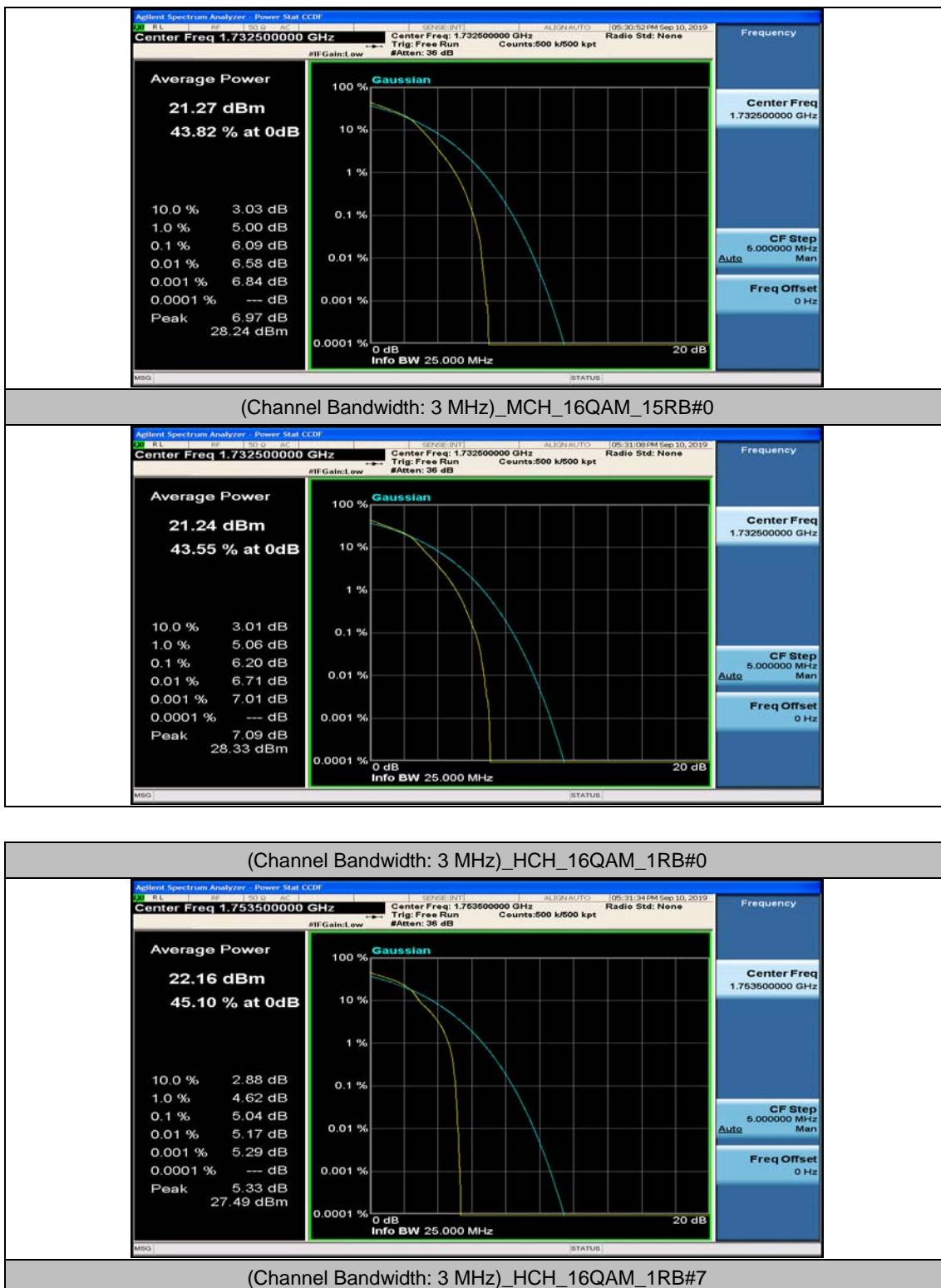


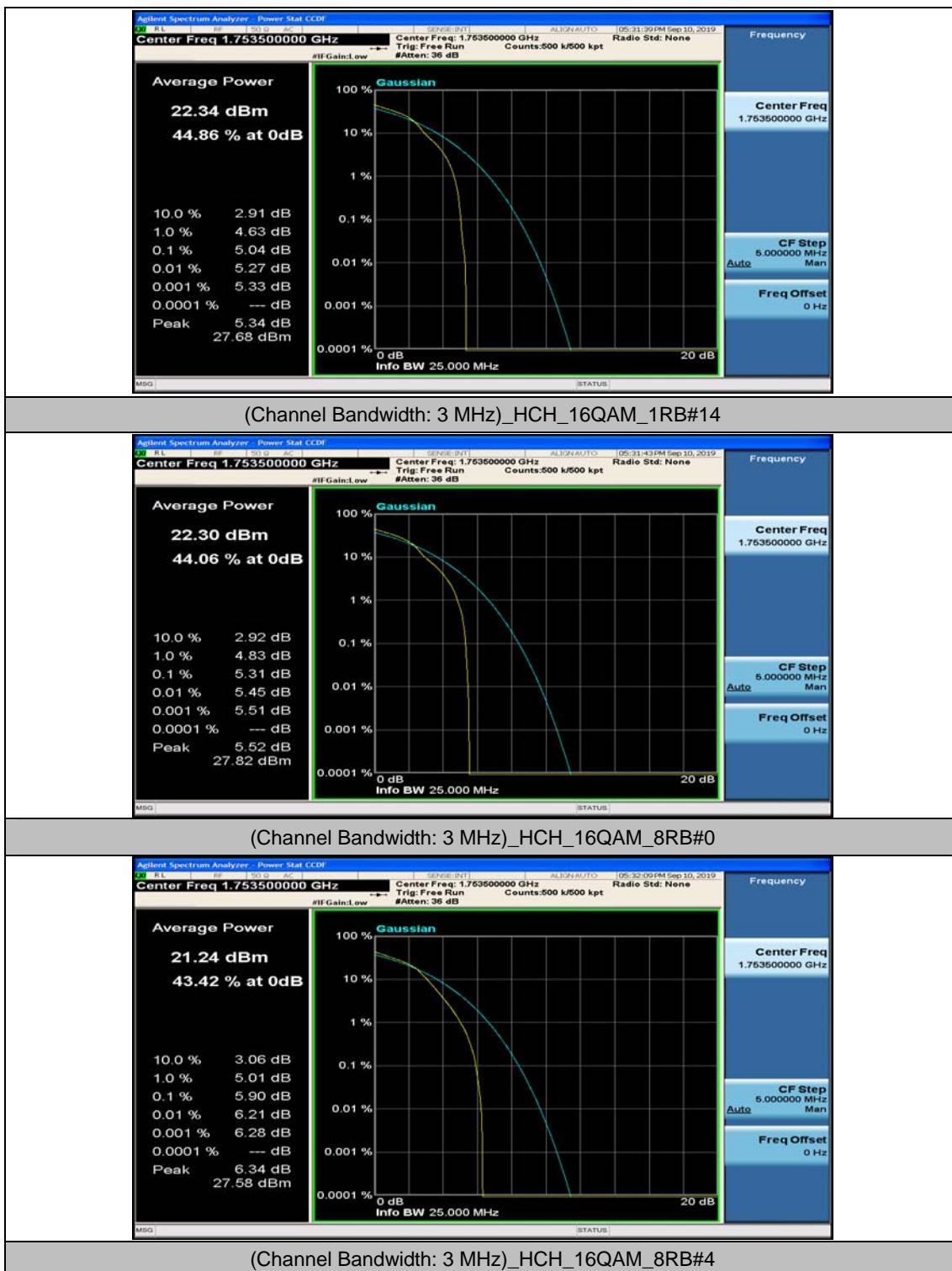


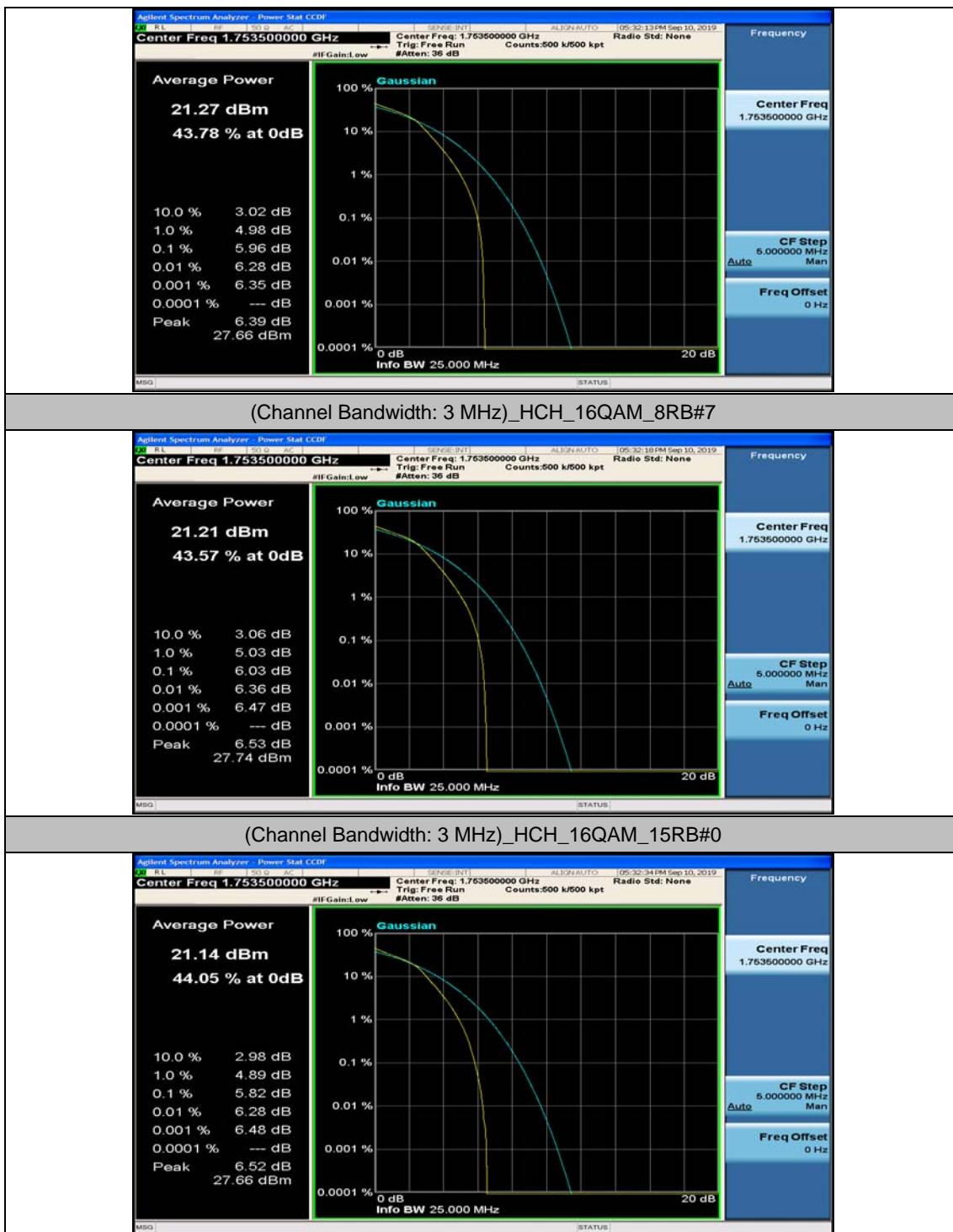












Channel Bandwidth: 5 MHz

