

## 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	21.85	PASS
		1	3	22.09	PASS
		1	5	22.10	PASS
		3	0	21.80	PASS
		3	2	21.97	PASS
		3	3	21.81	PASS
		6	0	21.03	PASS
	MCH	1	0	21.66	PASS
		1	3	21.59	PASS
		1	5	21.61	PASS
		3	0	21.70	PASS
		3	2	21.73	PASS
		3	3	21.66	PASS
		6	0	20.81	PASS
	HCH	1	0	22.07	PASS
		1	3	22.10	PASS
		1	5	22.03	PASS
		3	0	22.19	PASS
		3	2	22.14	PASS
		3	3	22.06	PASS
		6	0	21.29	PASS
16QAM	LCH	1	0	21.15	PASS
		1	3	21.08	PASS
		1	5	21.00	PASS
		3	0	20.86	PASS
		3	2	21.06	PASS
		3	3	21.26	PASS
		6	0	20.11	PASS
	MCH	1	0	21.11	PASS
		1	3	21.09	PASS
		1	5	21.04	PASS
		3	0	20.69	PASS
		3	2	20.88	PASS

	HCH	3	3	20.90	PASS
		6	0	19.76	PASS
		1	0	20.94	PASS
		1	3	20.98	PASS
		1	5	20.96	PASS
		3	0	21.25	PASS
		3	2	21.24	PASS
		3	3	21.16	PASS
		6	0	20.42	PASS

### Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.89	PASS
		1	7	22.36	PASS
		1	14	22.05	PASS
		8	0	21.05	PASS
		8	4	21.05	PASS
		8	7	21.02	PASS
		15	0	20.98	PASS
	MCH	1	0	21.74	PASS
		1	7	21.52	PASS
		1	14	21.52	PASS
		8	0	20.86	PASS
		8	4	20.76	PASS
		8	7	20.69	PASS
		15	0	20.84	PASS
	HCH	1	0	21.85	PASS
		1	7	22.03	PASS
		1	14	22.01	PASS
		8	0	21.10	PASS
		8	4	21.11	PASS
		8	7	21.17	PASS
		15	0	21.08	PASS
16QAM	LCH	1	0	21.34	PASS
		1	7	21.59	PASS
		1	14	21.21	PASS
		8	0	19.80	PASS
		8	4	20.12	PASS
		8	7	19.99	PASS
		15	0	19.98	PASS
	MCH	1	0	21.45	PASS

		1	7	21.07	PASS
		1	14	20.82	PASS
		8	0	20.17	PASS
		8	4	20.17	PASS
		8	7	20.05	PASS
		15	0	19.70	PASS
	HCH	1	0	21.21	PASS
		1	7	21.46	PASS
		1	14	21.48	PASS
		8	0	20.19	PASS
		8	4	20.21	PASS
		8	7	20.11	PASS
		15	0	20.19	PASS

### Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.78	PASS
		1	12	22.36	PASS
		1	24	22.17	PASS
		12	0	21.04	PASS
		12	6	21.04	PASS
		12	13	21.03	PASS
		25	0	20.98	PASS
	MCH	1	0	21.59	PASS
		1	12	21.52	PASS
		1	24	21.42	PASS
		12	0	20.83	PASS
		12	6	20.76	PASS
		12	13	20.66	PASS
		25	0	20.81	PASS
	HCH	1	0	22.24	PASS
		1	12	22.37	PASS
		1	24	22.19	PASS
		12	0	21.13	PASS
		12	6	21.20	PASS
		12	13	21.16	PASS
		25	0	21.24	PASS
16QAM	LCH	1	0	21.05	PASS
		1	12	21.38	PASS
		1	24	21.43	PASS
		12	0	20.08	PASS

		12	6	20.25	PASS
		12	13	20.16	PASS
		25	0	20.12	PASS
MCH		1	0	21.14	PASS
		1	12	21.03	PASS
		1	24	20.89	PASS
		12	0	19.85	PASS
		12	6	19.78	PASS
		12	13	19.77	PASS
		25	0	19.86	PASS
		1	0	21.13	PASS
HCH		1	12	21.50	PASS
		1	24	20.79	PASS
		12	0	20.42	PASS
		12	6	20.54	PASS
		12	13	20.47	PASS
		25	0	20.26	PASS

### Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.88	PASS
		1	24	22.54	PASS
		1	49	21.81	PASS
		25	0	21.00	PASS
		25	12	21.16	PASS
		25	25	21.10	PASS
		50	0	20.99	PASS
	MCH	1	0	21.82	PASS
		1	24	21.60	PASS
		1	49	21.34	PASS
		25	0	20.78	PASS
		25	12	20.70	PASS
		25	25	20.59	PASS
		50	0	20.81	PASS
	HCH	1	0	21.70	PASS
		1	24	22.40	PASS
		1	49	21.89	PASS
		25	0	20.87	PASS
		25	12	21.27	PASS
		25	25	21.20	PASS
		50	0	21.03	PASS

16QAM	LCH	1	0	21.16	PASS
		1	24	22.02	PASS
		1	49	21.31	PASS
		25	0	19.99	PASS
		25	12	20.18	PASS
		25	25	20.12	PASS
		50	0	20.01	PASS
	MCH	1	0	21.66	PASS
		1	24	21.35	PASS
		1	49	20.85	PASS
		25	0	19.86	PASS
		25	12	19.73	PASS
		25	25	19.56	PASS
		50	0	19.88	PASS
	HCH	1	0	21.03	PASS
		1	24	22.10	PASS
		1	49	21.54	PASS
		25	0	19.90	PASS
		25	12	20.29	PASS
		25	25	20.16	PASS
		50	0	20.02	PASS

### Channel Bandwidth: 15 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.84	PASS
		1	37	22.66	PASS
		1	74	21.71	PASS
		37	0	21.01	PASS
		37	18	21.20	PASS
		37	38	21.00	PASS
		75	0	21.01	PASS
	MCH	1	0	21.82	PASS
		1	37	21.52	PASS
		1	74	21.41	PASS
		37	0	20.89	PASS
		37	18	20.73	PASS
		37	38	20.63	PASS
		75	0	20.76	PASS
	HCH	1	0	21.63	PASS
		1	37	22.67	PASS
		1	74	22.01	PASS

		37	0	20.83	PASS
		37	18	21.09	PASS
		37	38	21.26	PASS
		75	0	20.83	PASS
16QAM	LCH	1	0	21.11	PASS
		1	37	22.27	PASS
		1	74	21.19	PASS
		37	0	19.81	PASS
		37	18	20.20	PASS
		37	38	20.06	PASS
		75	0	20.06	PASS
	MCH	1	0	21.73	PASS
		1	37	21.02	PASS
		1	74	20.77	PASS
		37	0	19.88	PASS
		37	18	19.72	PASS
		37	38	19.57	PASS
		75	0	19.85	PASS
	HCH	1	0	21.34	PASS
		1	37	22.01	PASS
		1	74	21.74	PASS
		37	0	19.59	PASS
		37	18	20.20	PASS
		37	38	20.27	PASS
		75	0	20.01	PASS

### Channel Bandwidth: 20 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	21.73	PASS
		1	49	22.40	PASS
		1	99	21.29	PASS
		50	0	21.01	PASS
		50	25	21.19	PASS
		50	50	20.81	PASS
		100	0	21.00	PASS
	MCH	1	0	21.88	PASS
		1	49	21.45	PASS
		1	99	21.33	PASS
		50	0	20.87	PASS
		50	25	20.68	PASS
		50	50	20.61	PASS

		100	0	20.80	PASS
	HCH	1	0	21.55	PASS
		1	49	22.41	PASS
		1	99	22.39	PASS
		50	0	20.85	PASS
		50	25	21.14	PASS
		50	50	21.15	PASS
		100	0	21.05	PASS
	LCH	1	0	20.47	PASS
		1	49	21.18	PASS
		1	99	19.97	PASS
		50	0	19.80	PASS
		50	25	20.26	PASS
		50	50	19.85	PASS
		100	0	20.03	PASS
	MCH	1	0	20.84	PASS
		1	49	20.13	PASS
		1	99	19.81	PASS
		50	0	19.79	PASS
		50	25	19.65	PASS
		50	50	19.53	PASS
		100	0	19.76	PASS
	HCH	1	0	20.23	PASS
		1	49	21.00	PASS
		1	99	21.19	PASS
		50	0	19.80	PASS
		50	25	20.22	PASS
		50	50	20.15	PASS
		100	0	20.00	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	4.84	<13	PASS
		1	3	4.74	<13	PASS
		1	5	4.84	<13	PASS
		3	0	4.98	<13	PASS
		3	2	4.86	<13	PASS
		3	3	4.97	<13	PASS
		6	0	5.48	<13	PASS
	MCH	1	0	4.33	<13	PASS
		1	3	4.31	<13	PASS
		1	5	4.34	<13	PASS
		3	0	4.43	<13	PASS
		3	2	4.40	<13	PASS
		3	3	4.46	<13	PASS
		6	0	4.91	<13	PASS
16QAM	LCH	1	0	3.67	<13	PASS
		1	3	3.53	<13	PASS
		1	5	3.56	<13	PASS
		3	0	3.71	<13	PASS
		3	2	3.60	<13	PASS
		3	3	3.58	<13	PASS
		6	0	4.19	<13	PASS
	MCH	1	0	5.74	<13	PASS
		1	3	5.64	<13	PASS
		1	5	5.7	<13	PASS
		3	0	5.95	<13	PASS
		3	2	5.84	<13	PASS
		3	3	5.94	<13	PASS
		6	0	6.38	<13	PASS

		3	3	5.29	<13	PASS
		6	0	5.87	<13	PASS
HCH		1	0	4.38	<13	PASS
		1	3	4.47	<13	PASS
		1	5	4.55	<13	PASS
		3	0	4.43	<13	PASS
		3	2	4.39	<13	PASS
		3	3	4.42	<13	PASS
		6	0	5.00	<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	4.75	<13	PASS
		1	7	4.59	<13	PASS
		1	14	4.74	<13	PASS
		8	0	5.09	<13	PASS
		8	4	5.06	<13	PASS
		8	7	5.18	<13	PASS
		15	0	5.29	<13	PASS
	MCH	1	0	3.87	<13	PASS
		1	7	3.90	<13	PASS
		1	14	4.24	<13	PASS
		8	0	4.23	<13	PASS
		8	4	4.34	<13	PASS
		8	7	4.42	<13	PASS
		15	0	4.21	<13	PASS
	HCH	1	0	2.98	<13	PASS
		1	7	2.64	<13	PASS
		1	14	8.31	<13	PASS
		8	0	4.23	<13	PASS
		8	4	4.16	<13	PASS
		8	7	4.17	<13	PASS
		15	0	4.33	<13	PASS
16QAM	LCH	1	0	5.44	<13	PASS
		1	7	5.41	<13	PASS
		1	14	5.39	<13	PASS
		8	0	5.99	<13	PASS
		8	4	6.00	<13	PASS
		8	7	6.06	<13	PASS

		15	0	6.28	<13	PASS
MCH	1	0		4.39	<13	PASS
	1	7		4.39	<13	PASS
	1	14		4.95	<13	PASS
	8	0		5.03	<13	PASS
	8	4		5.05	<13	PASS
	8	7		5.11	<13	PASS
	15	0		5.12	<13	PASS
HCH	1	0		4.33	<13	PASS
	1	7		4.39	<13	PASS
	1	14		4.36	<13	PASS
	8	0		5.05	<13	PASS
	8	4		4.96	<13	PASS
	8	7		5.03	<13	PASS
	15	0		5.32	<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	3.14	<13	PASS
		1	12	3.13	<13	PASS
		1	24	4.05	<13	PASS
		12	0	4.55	<13	PASS
		12	6	4.36	<13	PASS
		12	13	4.47	<13	PASS
		25	0	4.67	<13	PASS
QPSK	MCH	1	0	4.00	<13	PASS
		1	12	3.70	<13	PASS
		1	24	3.59	<13	PASS
		12	0	4.47	<13	PASS
		12	6	4.29	<13	PASS
		12	13	4.26	<13	PASS
		25	0	4.59	<13	PASS
QPSK	HCH	1	0	3.68	<13	PASS
		1	12	3.61	<13	PASS
		1	24	3.32	<13	PASS
		12	0	4.31	<13	PASS
		12	6	4.22	<13	PASS
		12	13	4.15	<13	PASS
		25	0	4.45	<13	PASS

16QAM	LCH	1	0	3.97	<13	PASS
		1	12	4.26	<13	PASS
		1	24	4.93	<13	PASS
		12	0	5.18	<13	PASS
		12	6	5.26	<13	PASS
		12	13	5.40	<13	PASS
		25	0	5.54	<13	PASS
	MCH	1	0	4.89	<13	PASS
		1	12	4.56	<13	PASS
		1	24	4.49	<13	PASS
		12	0	5.37	<13	PASS
		12	6	5.16	<13	PASS
		12	13	5.14	<13	PASS
		25	0	5.42	<13	PASS
	HCH	1	0	4.39	<13	PASS
		1	12	4.53	<13	PASS
		1	24	4.53	<13	PASS
		12	0	5.22	<13	PASS
		12	6	5.12	<13	PASS
		12	13	5.11	<13	PASS
		25	0	5.32	<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	3.16	<13	PASS
		1	24	3.97	<13	PASS
		1	49	4.48	<13	PASS
		25	0	4.53	<13	PASS
		25	12	4.77	<13	PASS
		25	25	4.79	<13	PASS
		50	0	5.01	<13	PASS
	MCH	1	0	4.29	<13	PASS
		1	24	3.71	<13	PASS
		1	49	3.43	<13	PASS
		25	0	4.59	<13	PASS
		25	12	4.35	<13	PASS
		25	25	4.26	<13	PASS
		50	0	4.66	<13	PASS
	HCH	1	0	3.56	<13	PASS

		1	24	3.74	<13	PASS
		1	49	3.53	<13	PASS
		25	0	4.35	<13	PASS
		25	12	4.31	<13	PASS
		25	25	4.3	<13	PASS
		50	0	4.54	<13	PASS
16QAM	LCH	1	0	4.37	<13	PASS
		1	24	4.85	<13	PASS
		1	49	5.34	<13	PASS
		25	0	5.38	<13	PASS
		25	12	5.62	<13	PASS
		25	25	5.73	<13	PASS
		50	0	5.78	<13	PASS
	MCH	1	0	4.99	<13	PASS
		1	24	4.27	<13	PASS
		1	49	4.42	<13	PASS
		25	0	5.51	<13	PASS
		25	12	5.26	<13	PASS
		25	25	5.13	<13	PASS
		50	0	5.52	<13	PASS
	HCH	1	0	4.69	<13	PASS
		1	24	4.50	<13	PASS
		1	49	4.52	<13	PASS
		25	0	5.24	<13	PASS
		25	12	5.20	<13	PASS
		25	25	5.21	<13	PASS
		50	0	5.36	<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	3.26	<13	PASS
		1	37	4.29	<13	PASS
		1	74	4.60	<13	PASS
		37	0	4.66	<13	PASS
		37	18	4.92	<13	PASS
		37	38	5.03	<13	PASS
		75	0	5.43	<13	PASS
	MCH	1	0	4.42	<13	PASS
		1	37	3.46	<13	PASS

16QAM		1	74	3.53	<13	PASS
		37	0	4.69	<13	PASS
		37	18	4.35	<13	PASS
		37	38	4.20	<13	PASS
		75	0	4.79	<13	PASS
	HCH	1	0	3.57	<13	PASS
		1	37	3.54	<13	PASS
		1	74	3.53	<13	PASS
		37	0	4.32	<13	PASS
		37	18	4.24	<13	PASS
		37	38	4.36	<13	PASS
		75	0	4.75	<13	PASS
	LCH	1	0	4.55	<13	PASS
		1	37	5.13	<13	PASS
		1	74	5.47	<13	PASS
		37	0	5.57	<13	PASS
		37	18	5.65	<13	PASS
		37	38	5.93	<13	PASS
		75	0	6.18	<13	PASS
	MCH	1	0	4.92	<13	PASS
		1	37	4.21	<13	PASS
		1	74	4.28	<13	PASS
		37	0	5.62	<13	PASS
		37	18	5.28	<13	PASS
		37	38	5.12	<13	PASS
		75	0	5.60	<13	PASS
	HCH	1	0	4.53	<13	PASS
		1	37	4.43	<13	PASS
		1	74	4.38	<13	PASS
		37	0	5.19	<13	PASS
		37	18	5.13	<13	PASS
		37	38	5.26	<13	PASS
		75	0	5.55	<13	PASS

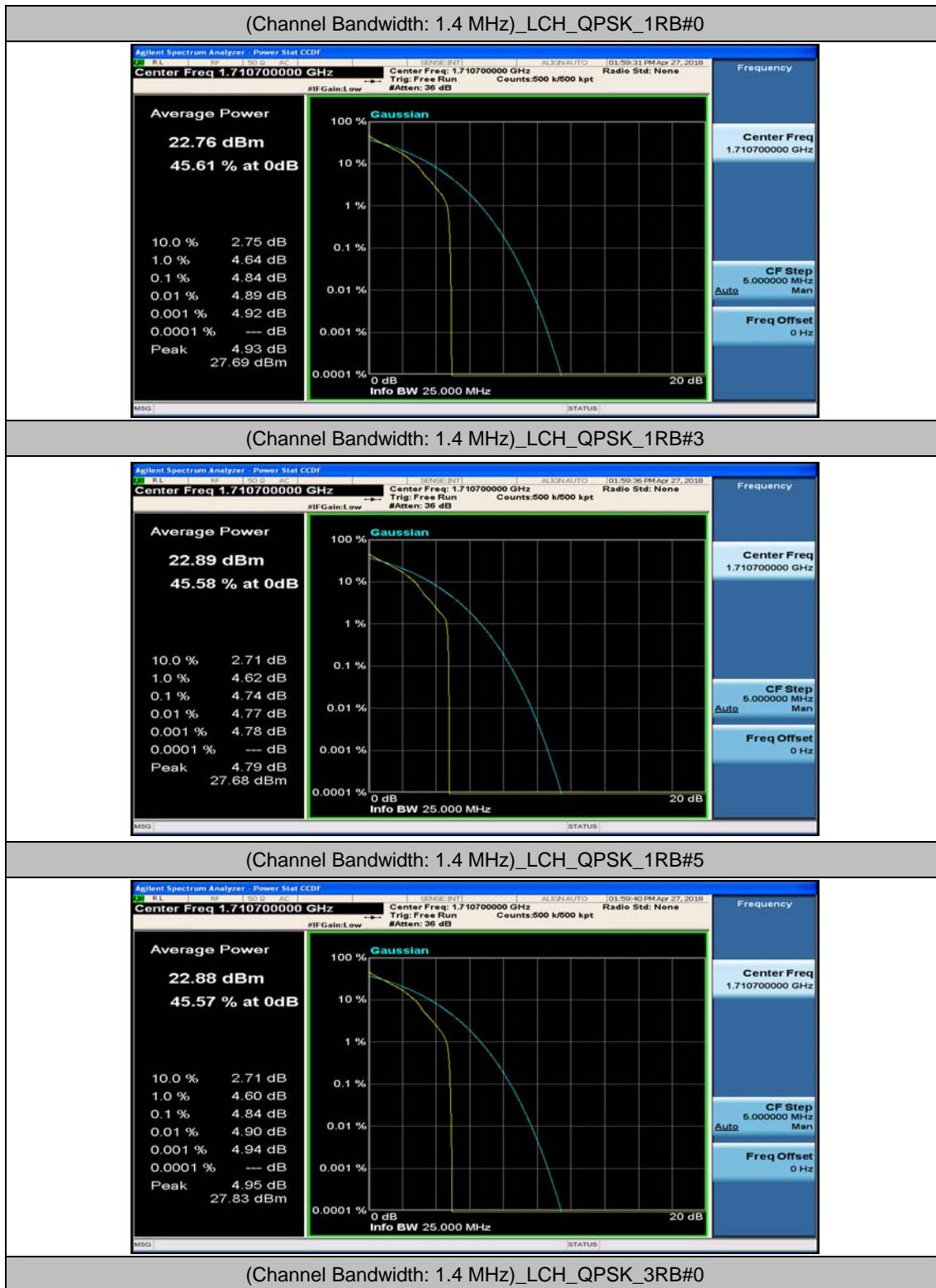
### Channel Bandwidth: 20 MHz

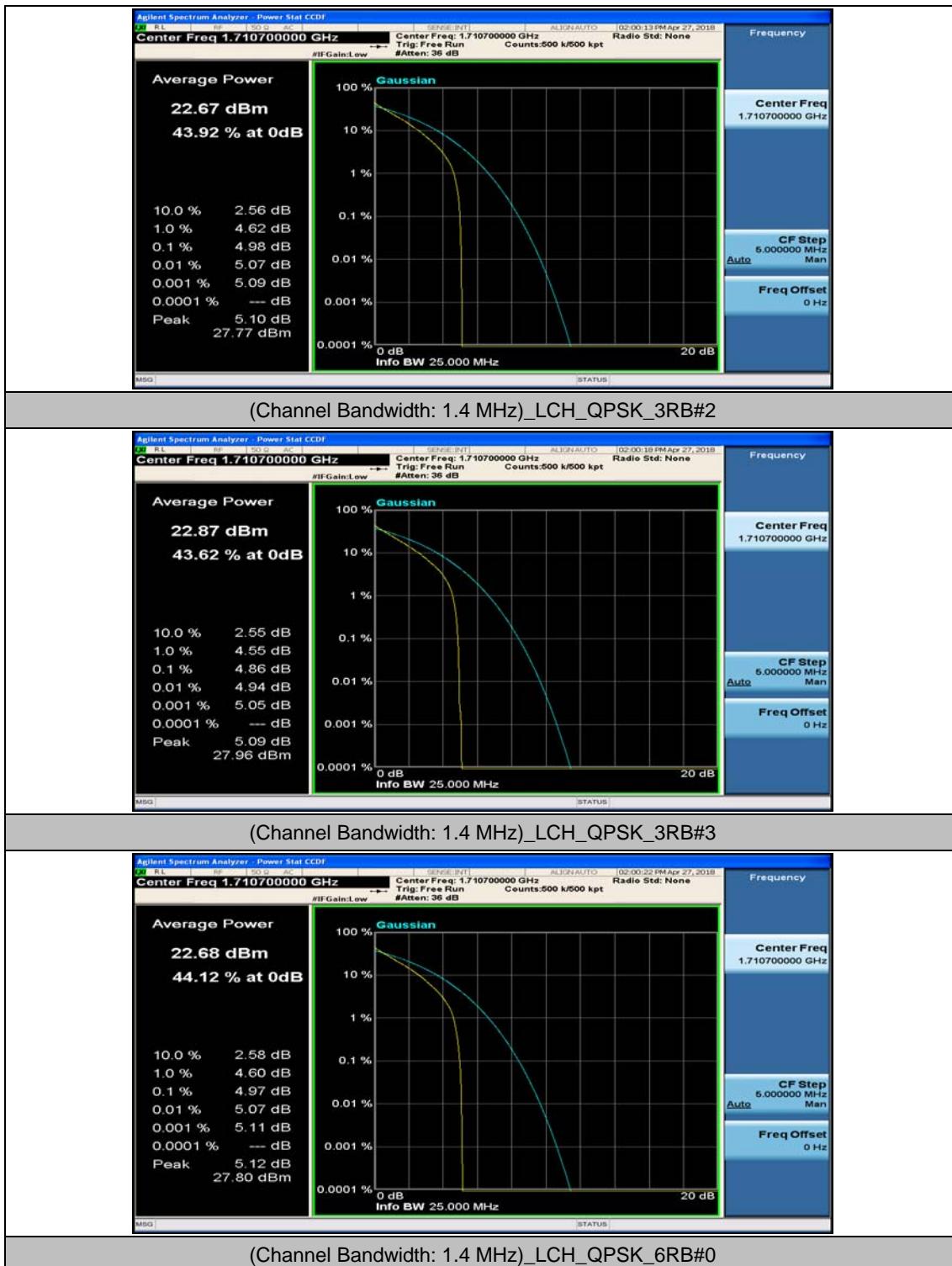
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	3.28	<13	PASS
		1	49	4.46	<13	PASS
		1	99	4.51	<13	PASS

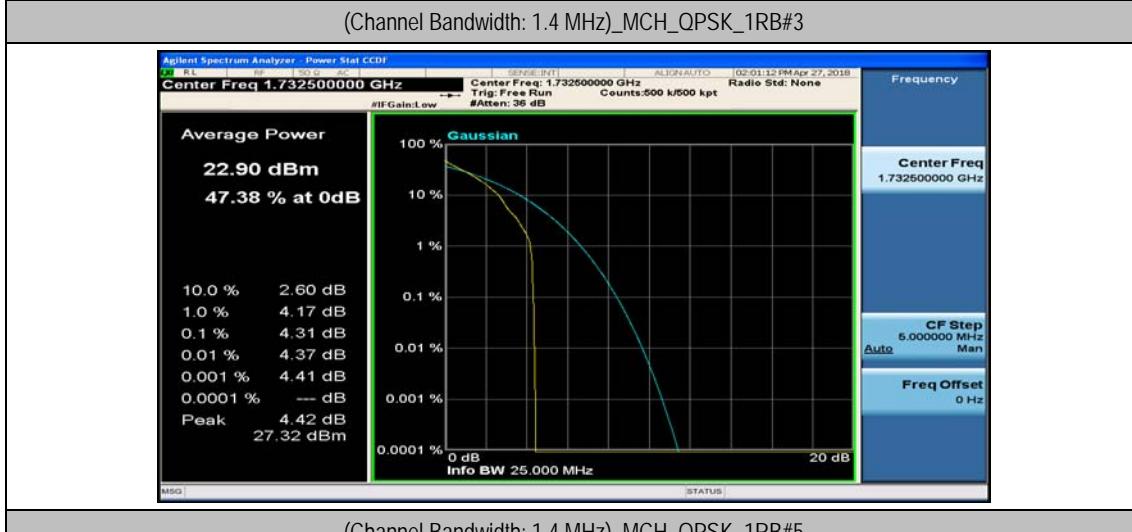
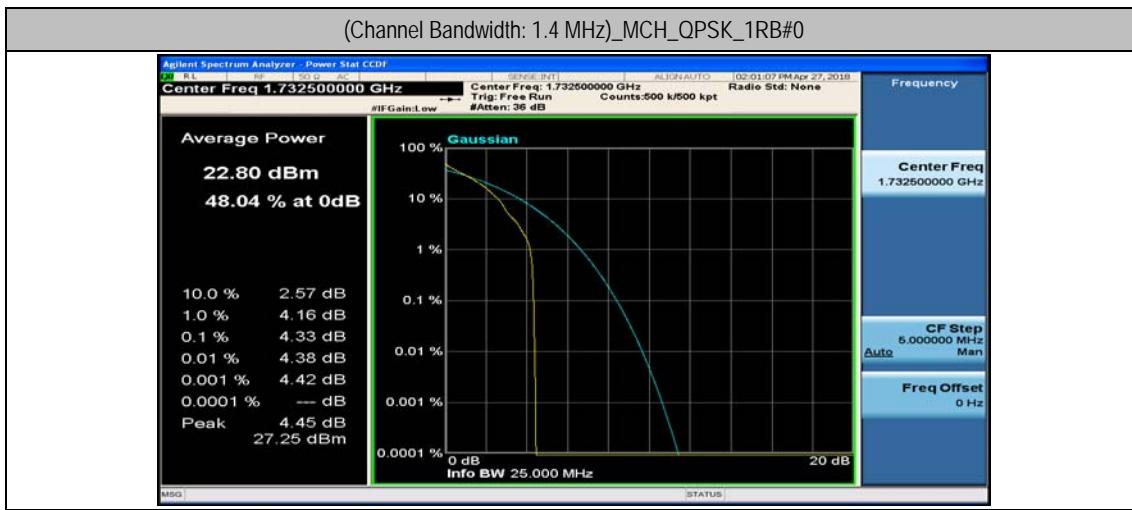
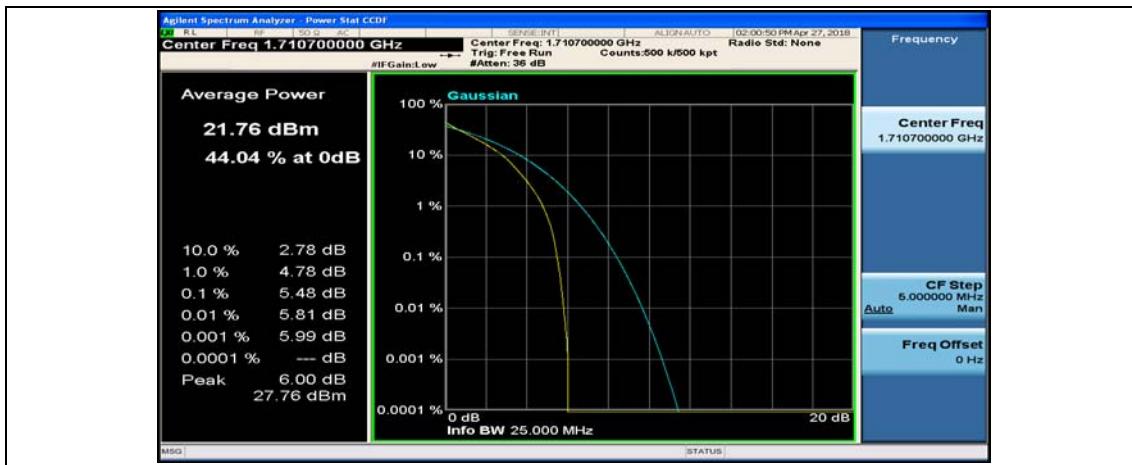
		50	0	4.79	<13	PASS
		50	25	4.93	<13	PASS
		50	50	5.07	<13	PASS
		100	0	5.32	<13	PASS
	MCH	1	0	4.43	<13	PASS
		1	49	3.46	<13	PASS
		1	99	3.74	<13	PASS
		50	0	4.71	<13	PASS
	HCH	50	25	4.39	<13	PASS
		50	50	4.30	<13	PASS
		100	0	4.74	<13	PASS
		1	0	3.49	<13	PASS
	LCH	1	49	3.57	<13	PASS
		1	99	3.33	<13	PASS
		50	0	4.26	<13	PASS
		50	25	4.21	<13	PASS
	16QAM	50	50	4.50	<13	PASS
		100	0	4.81	<13	PASS
		1	0	4.96	<13	PASS
		1	49	5.30	<13	PASS
	MCH	1	99	5.24	<13	PASS
		50	0	5.71	<13	PASS
		50	25	5.86	<13	PASS
		50	50	5.98	<13	PASS
	HCH	100	0	6.24	<13	PASS
		1	0	5.19	<13	PASS
		1	49	4.57	<13	PASS
		1	99	4.57	<13	PASS
		50	0	5.63	<13	PASS
		50	25	5.28	<13	PASS
		50	50	5.19	<13	PASS
		100	0	5.62	<13	PASS
		1	0	4.43	<13	PASS
		1	49	4.56	<13	PASS
		1	99	4.59	<13	PASS
		50	0	5.12	<13	PASS
		50	25	5.12	<13	PASS
		50	50	5.33	<13	PASS
		100	0	5.54	<13	PASS

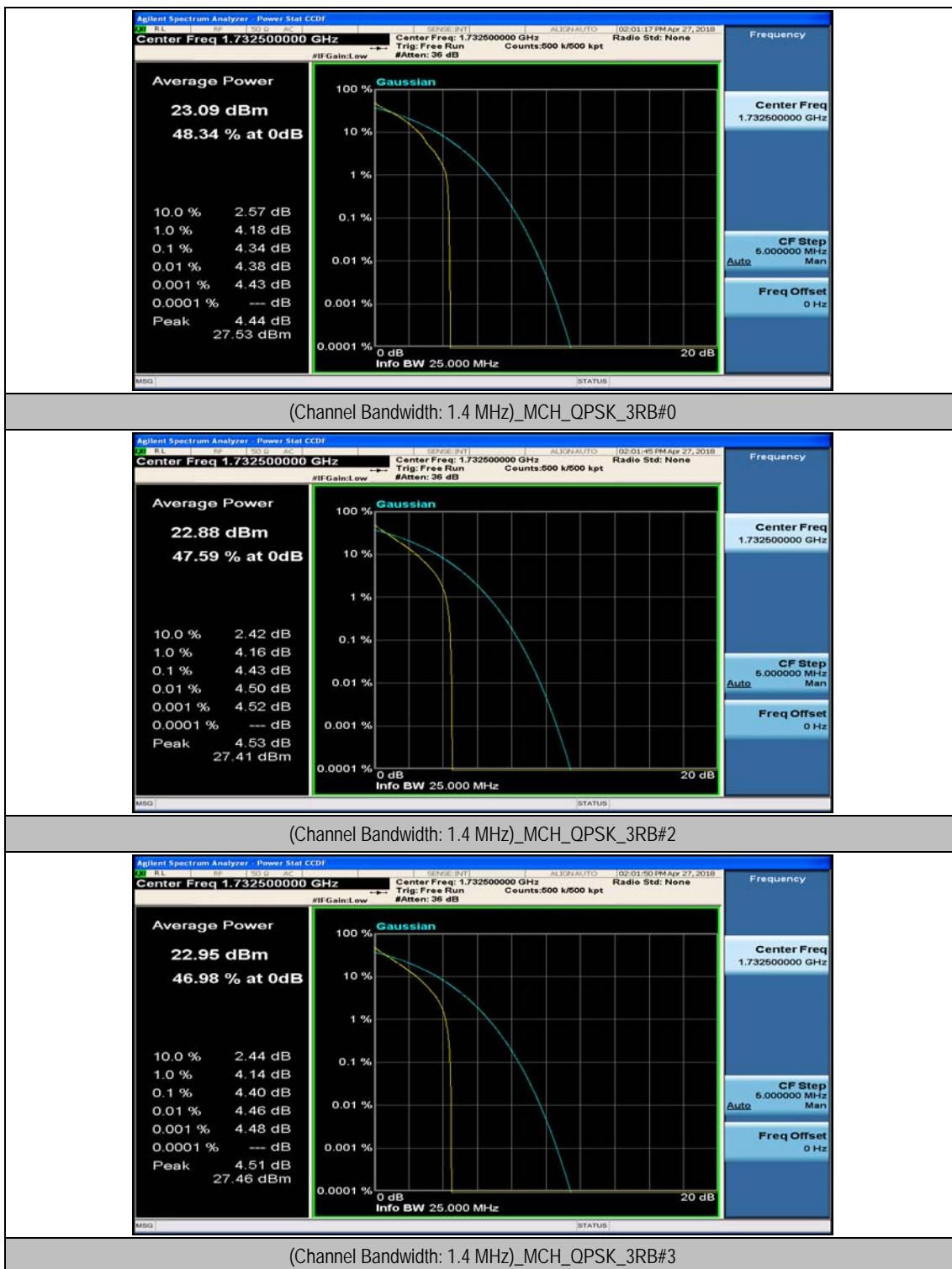
## Test Graphs

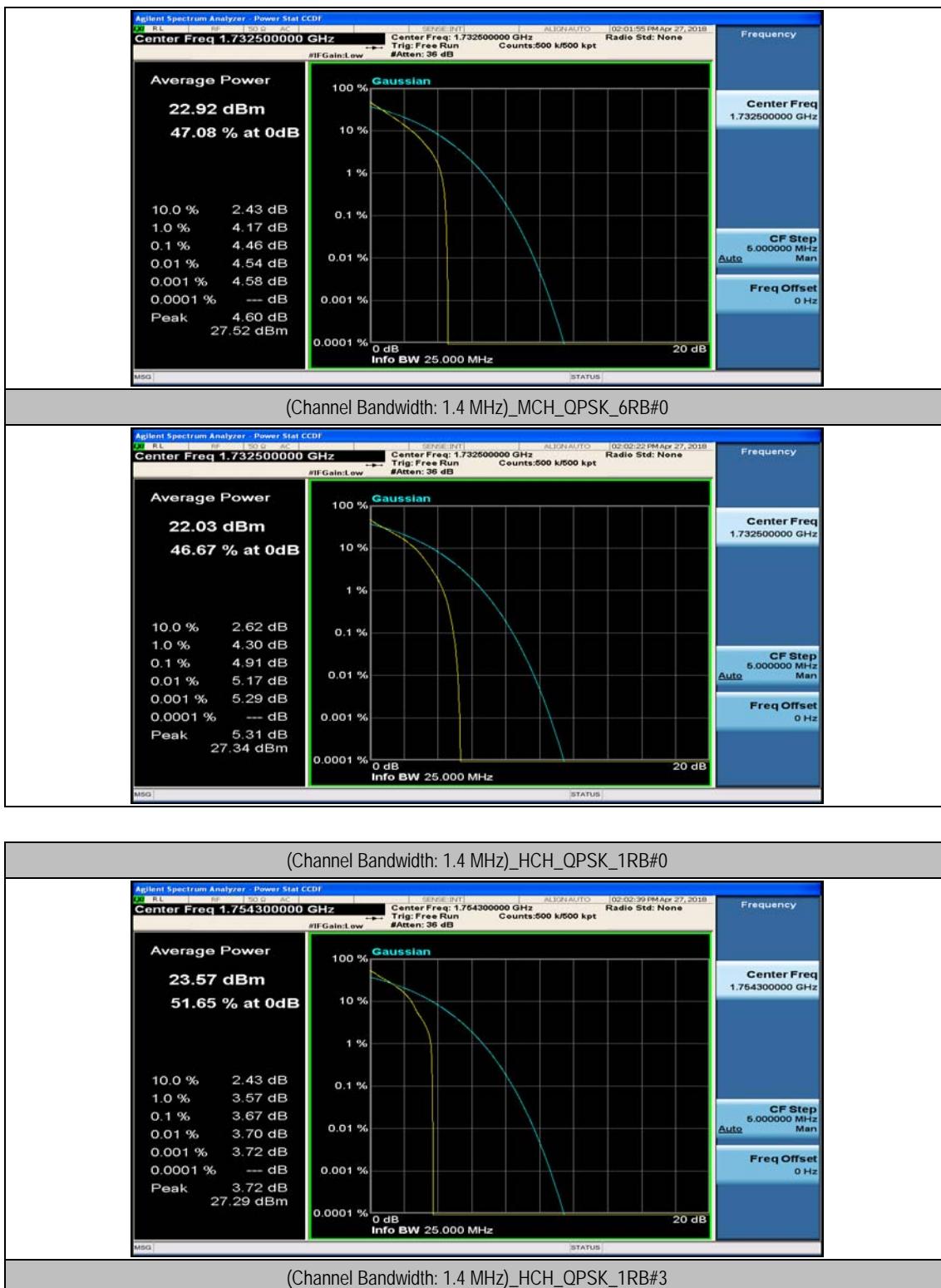
### Channel Bandwidth: 1.4 MHz

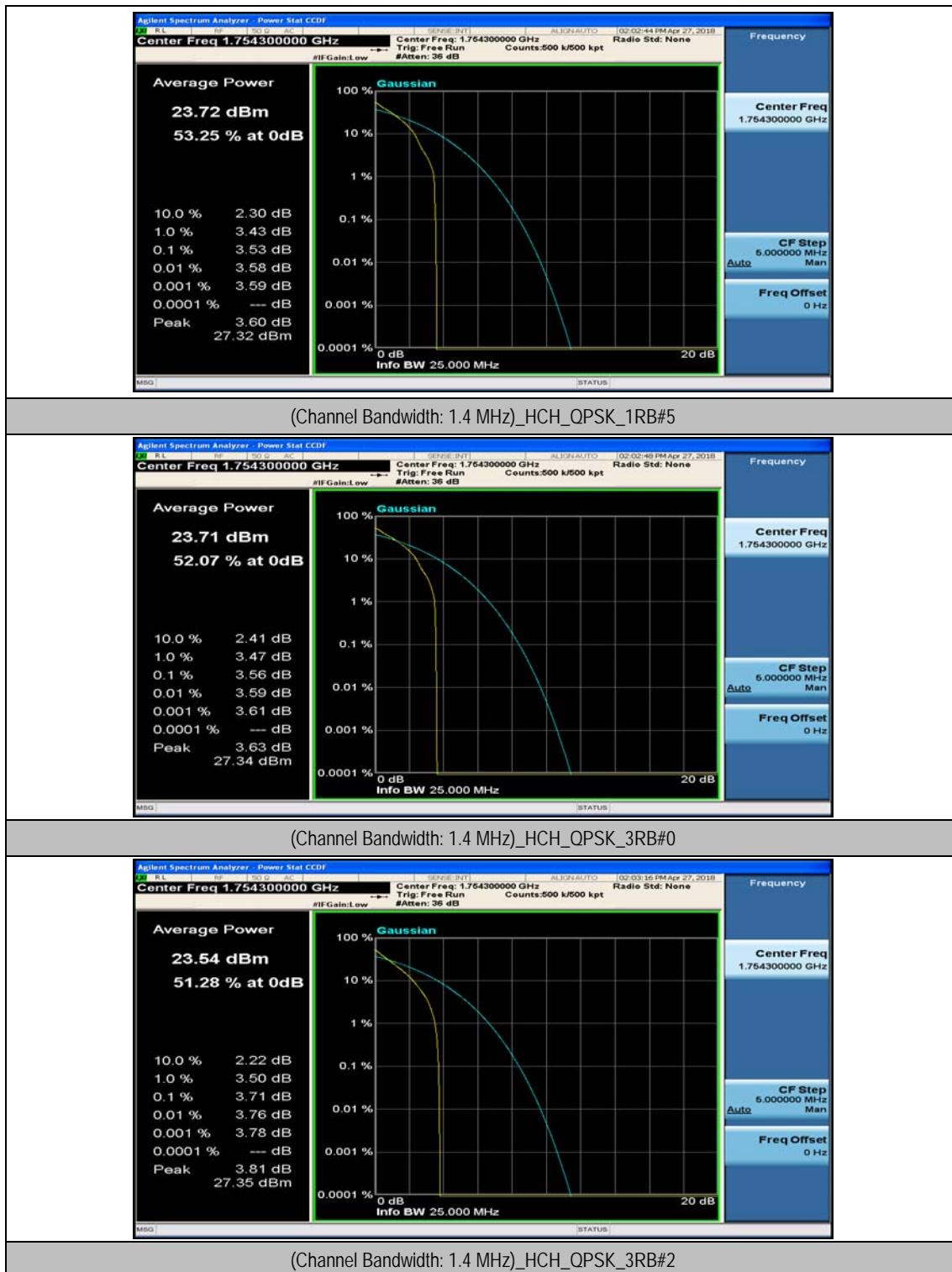


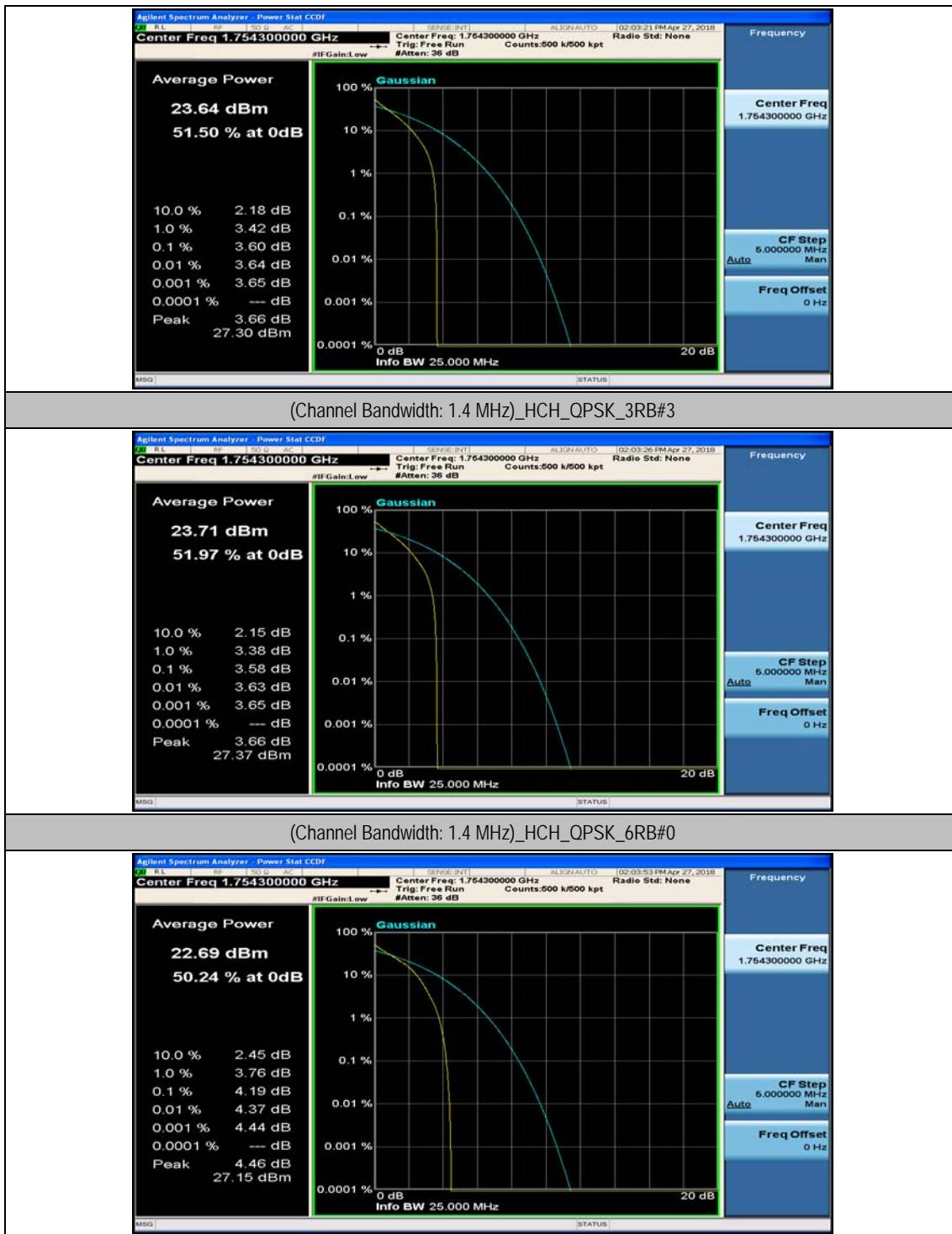


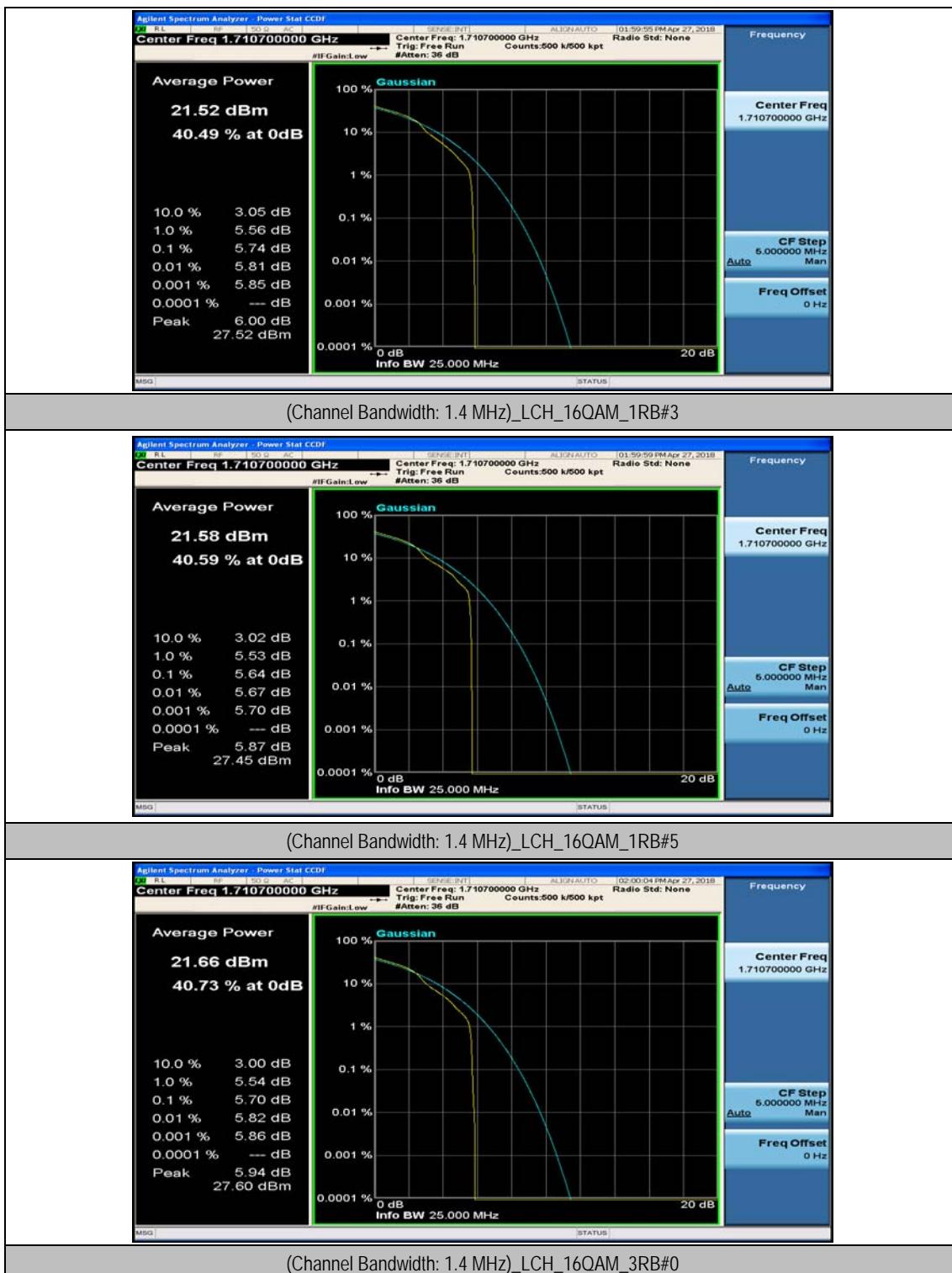


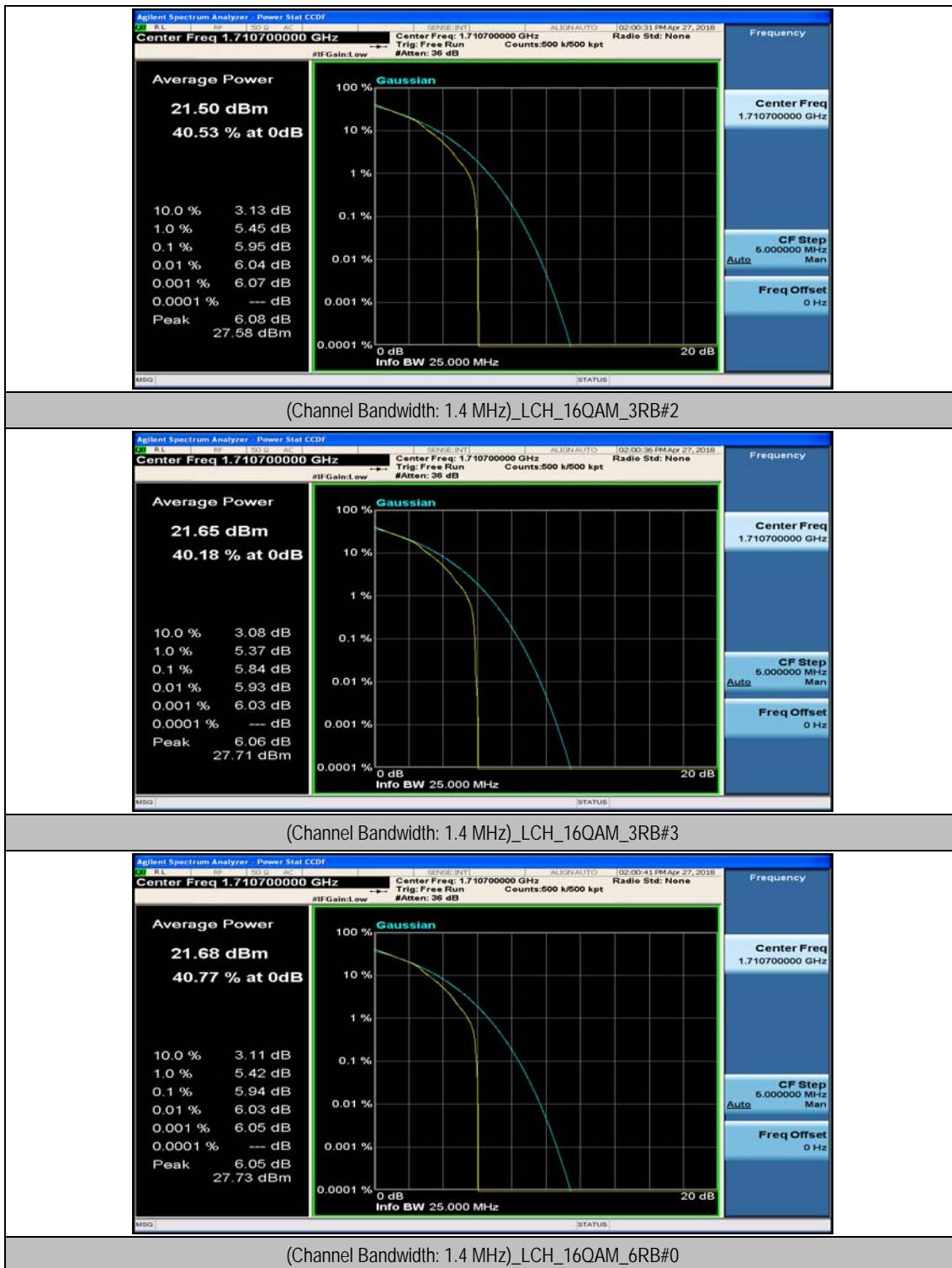


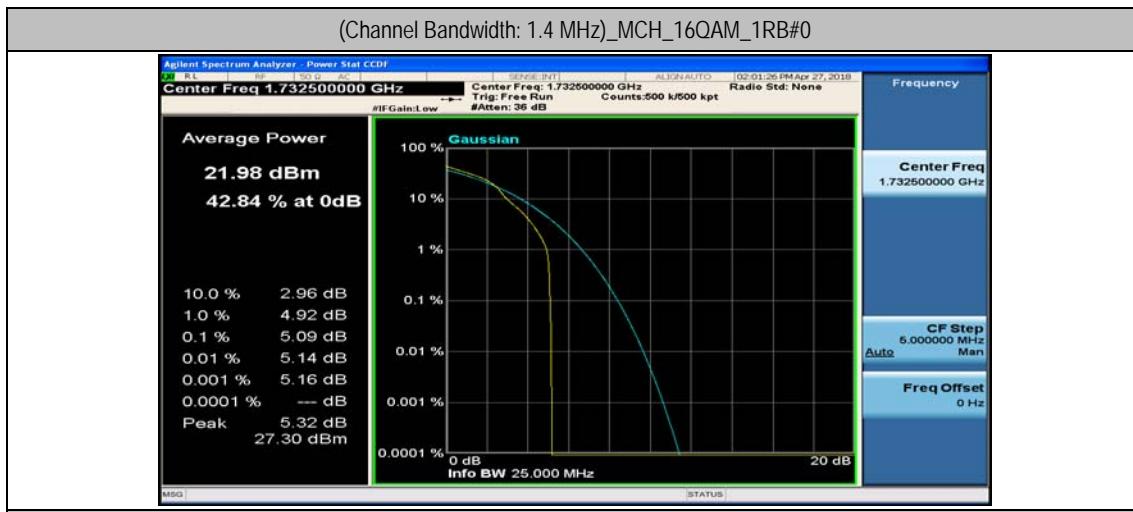
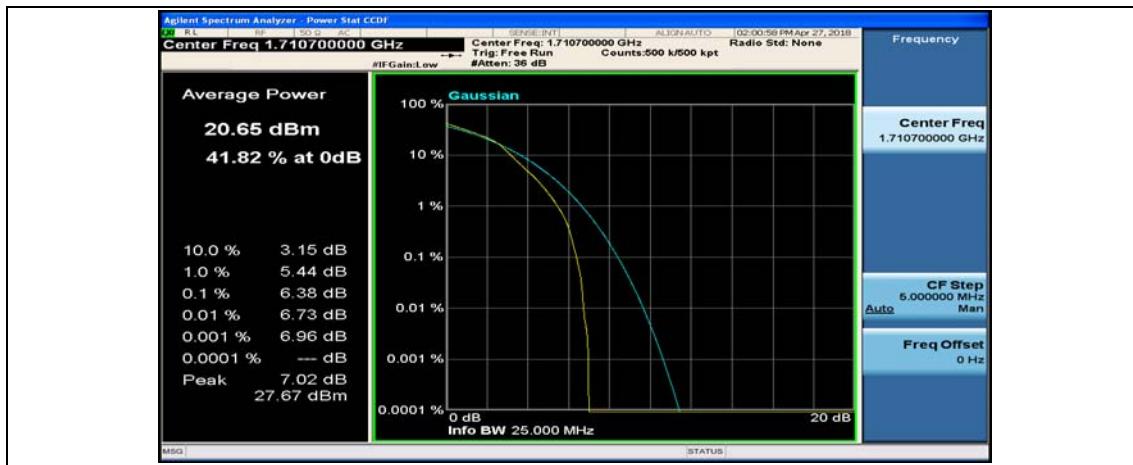


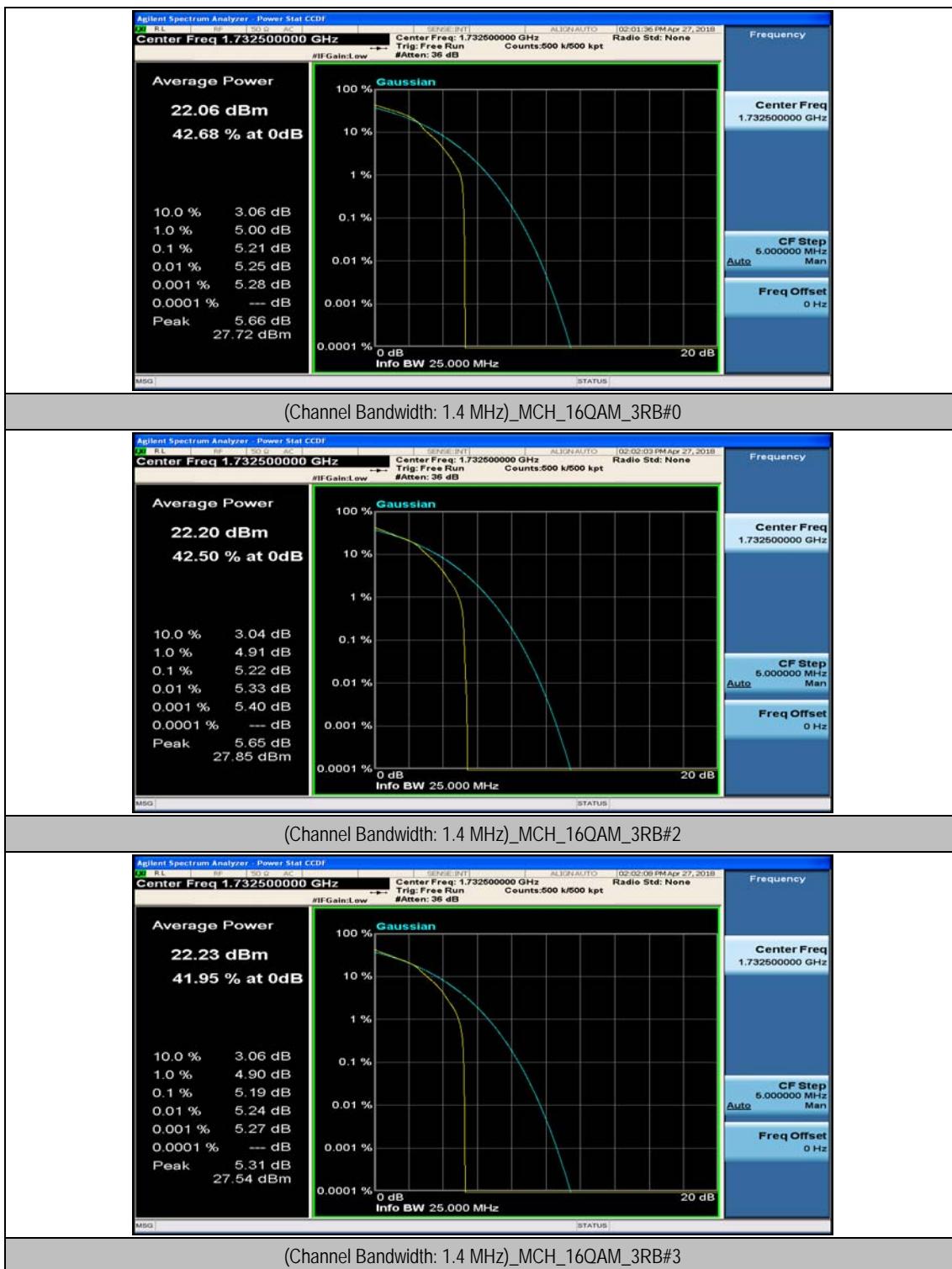


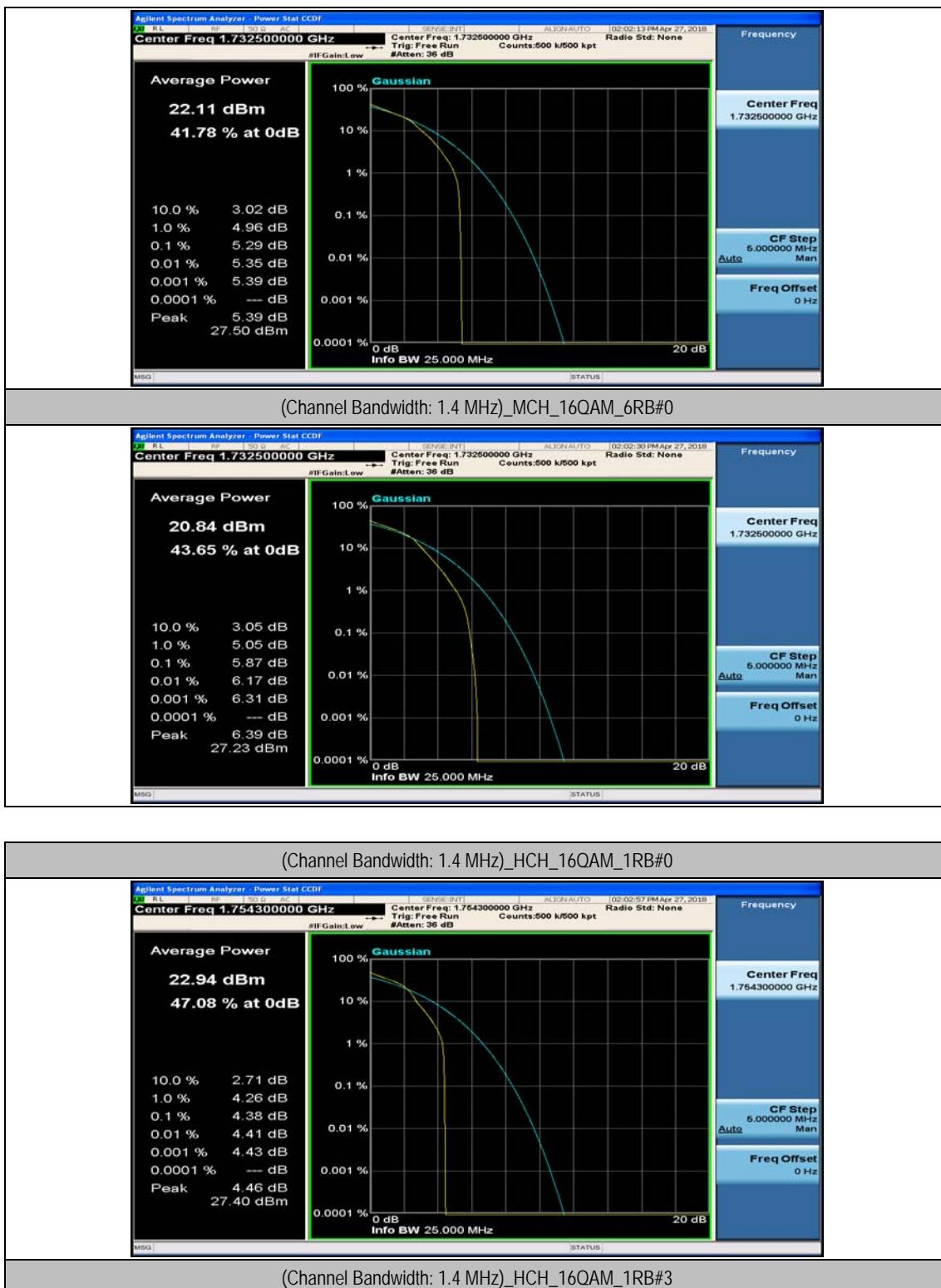


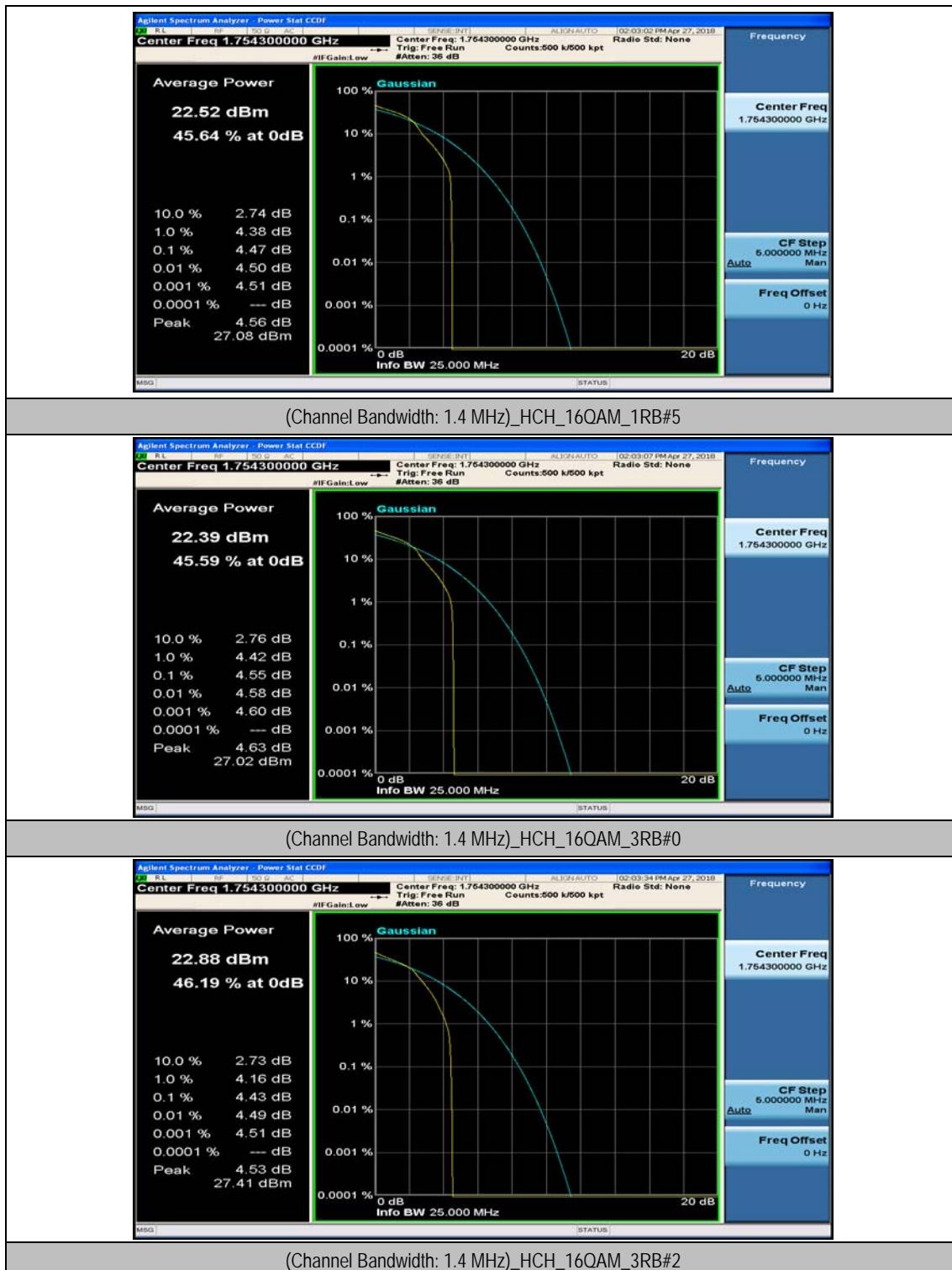


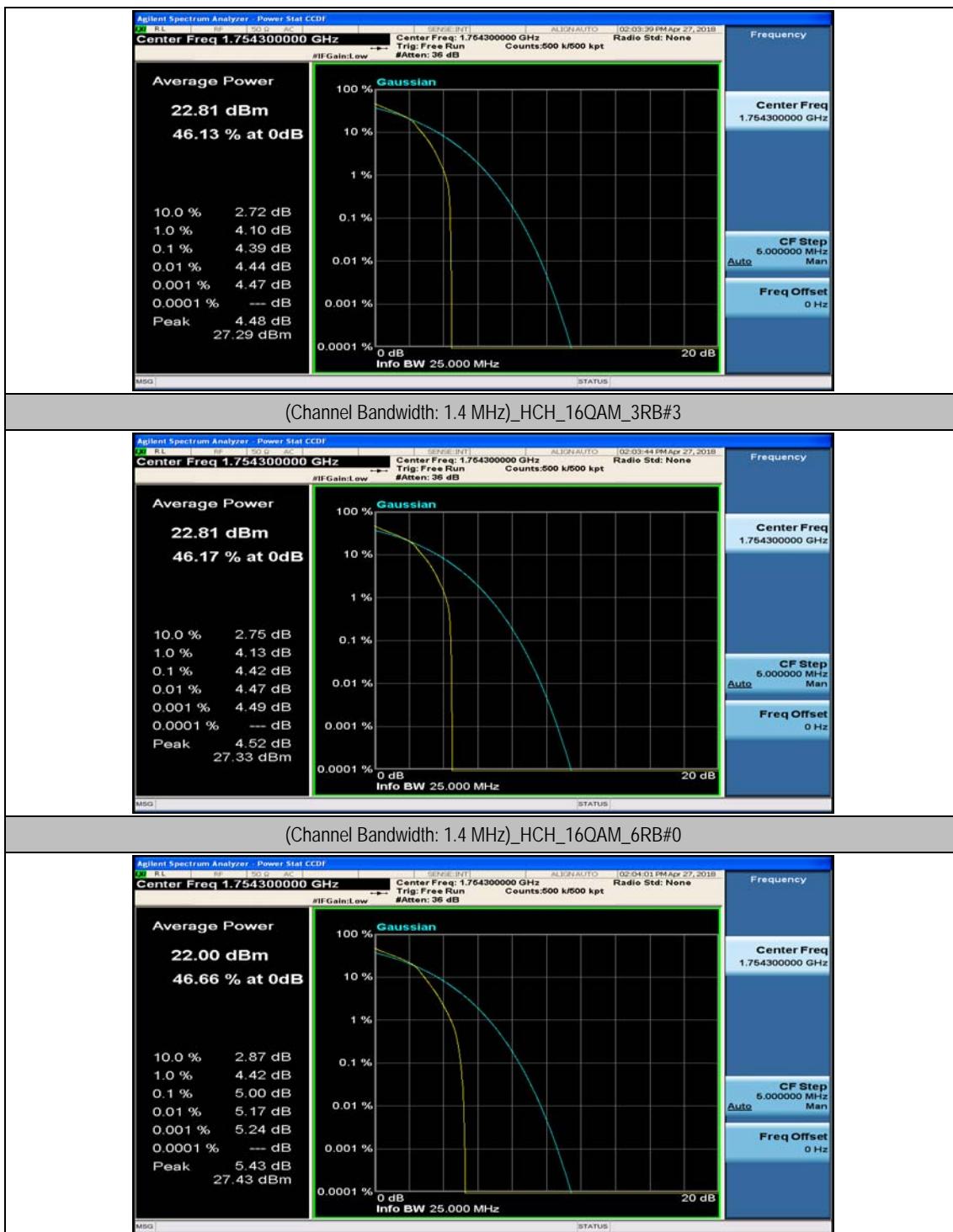




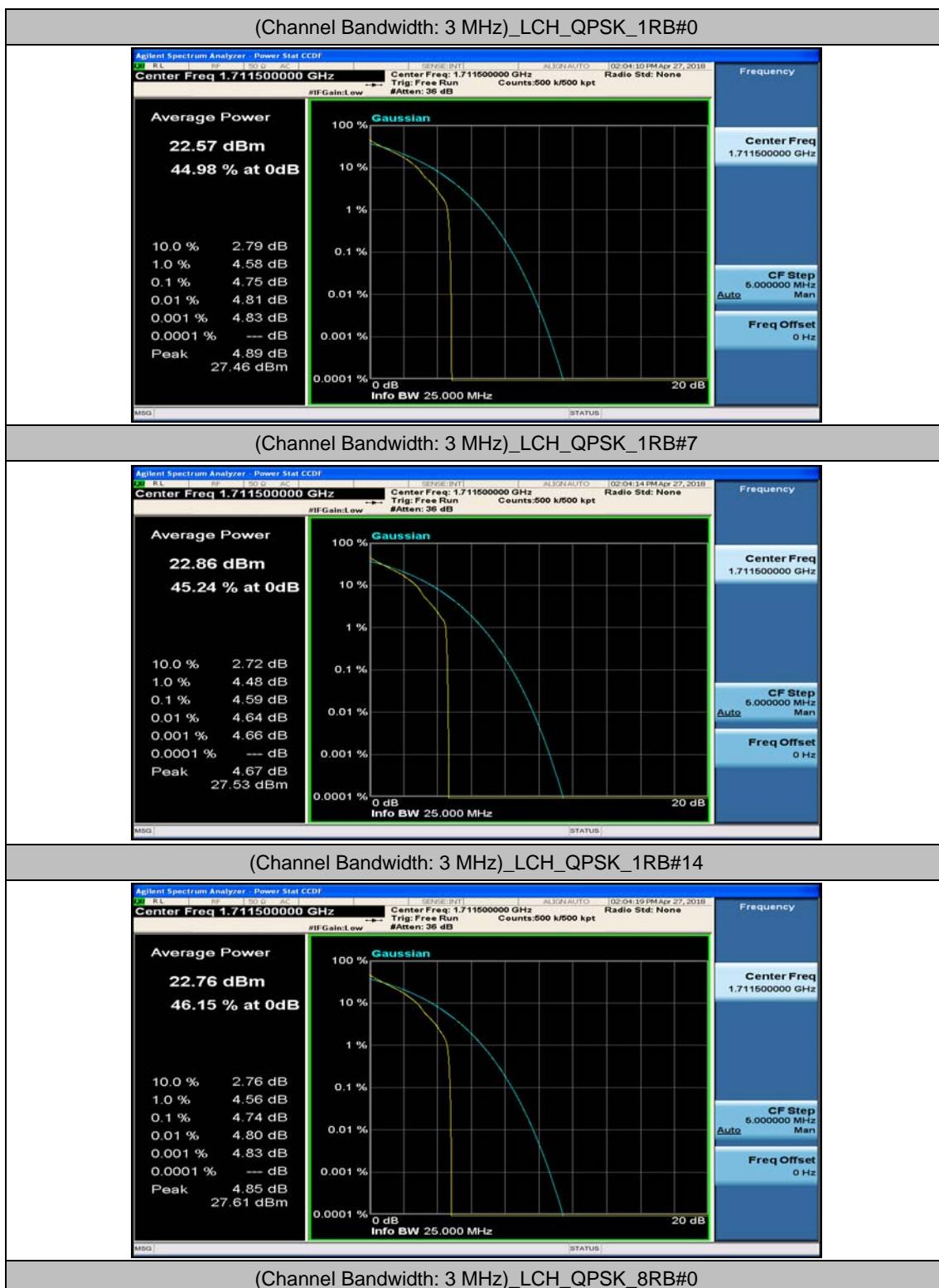


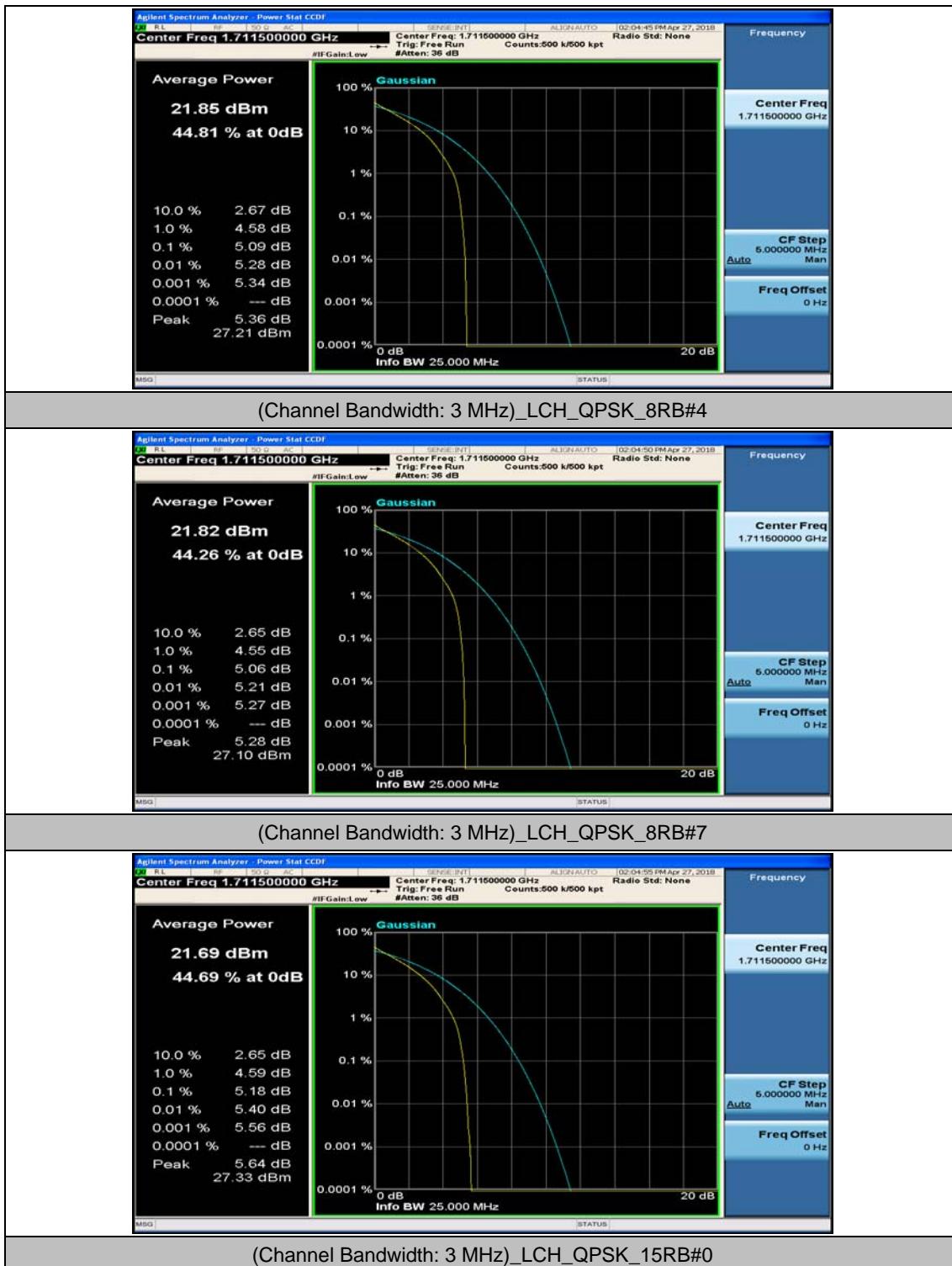


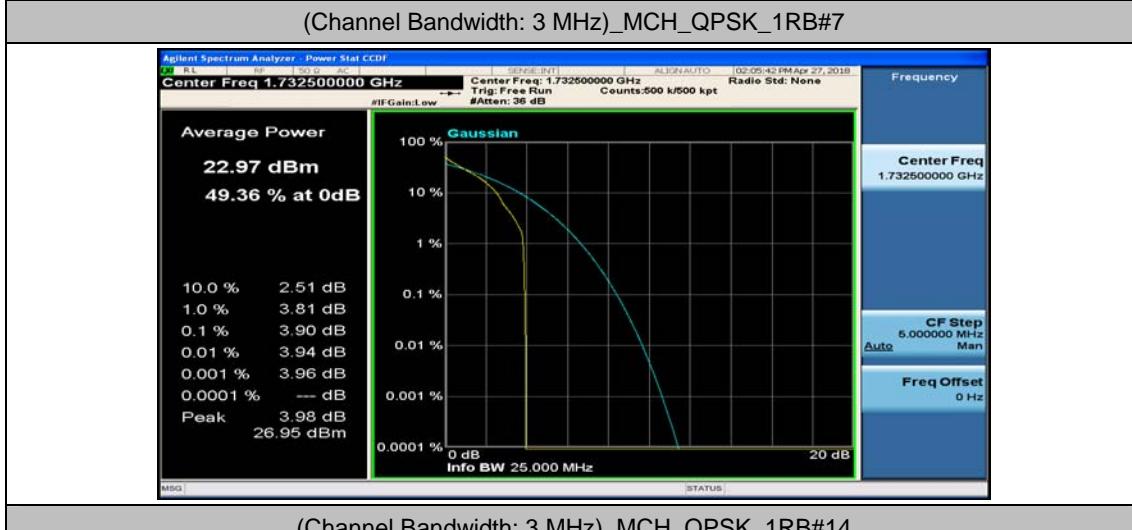
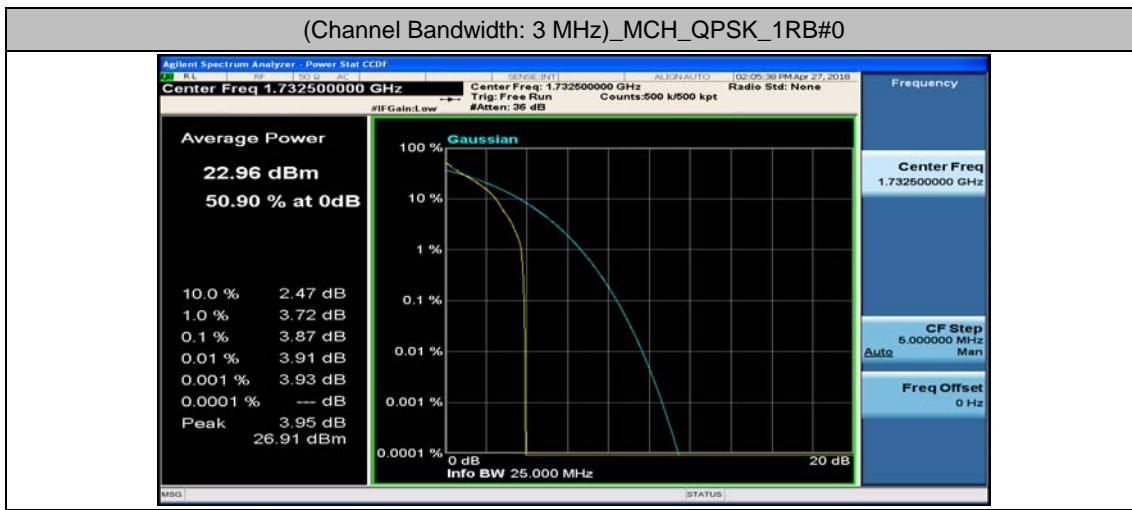
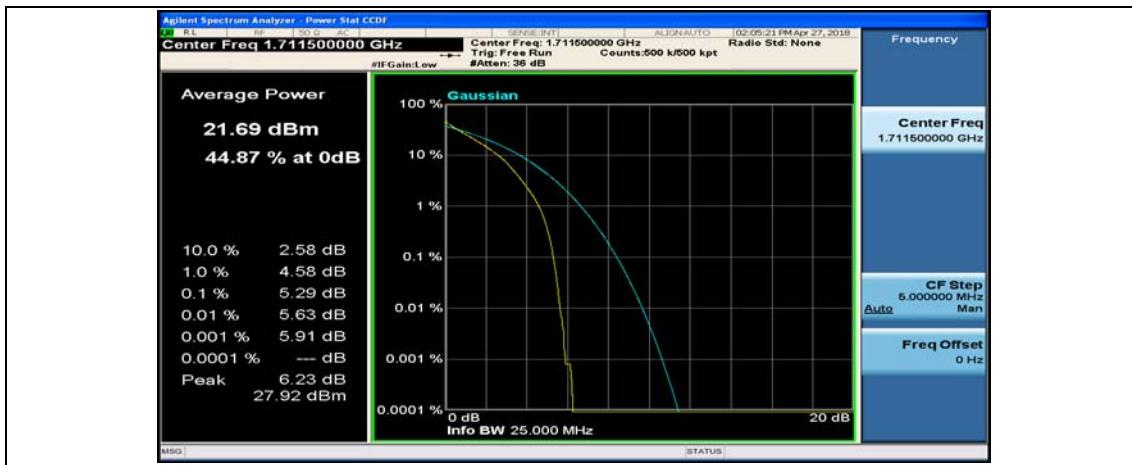


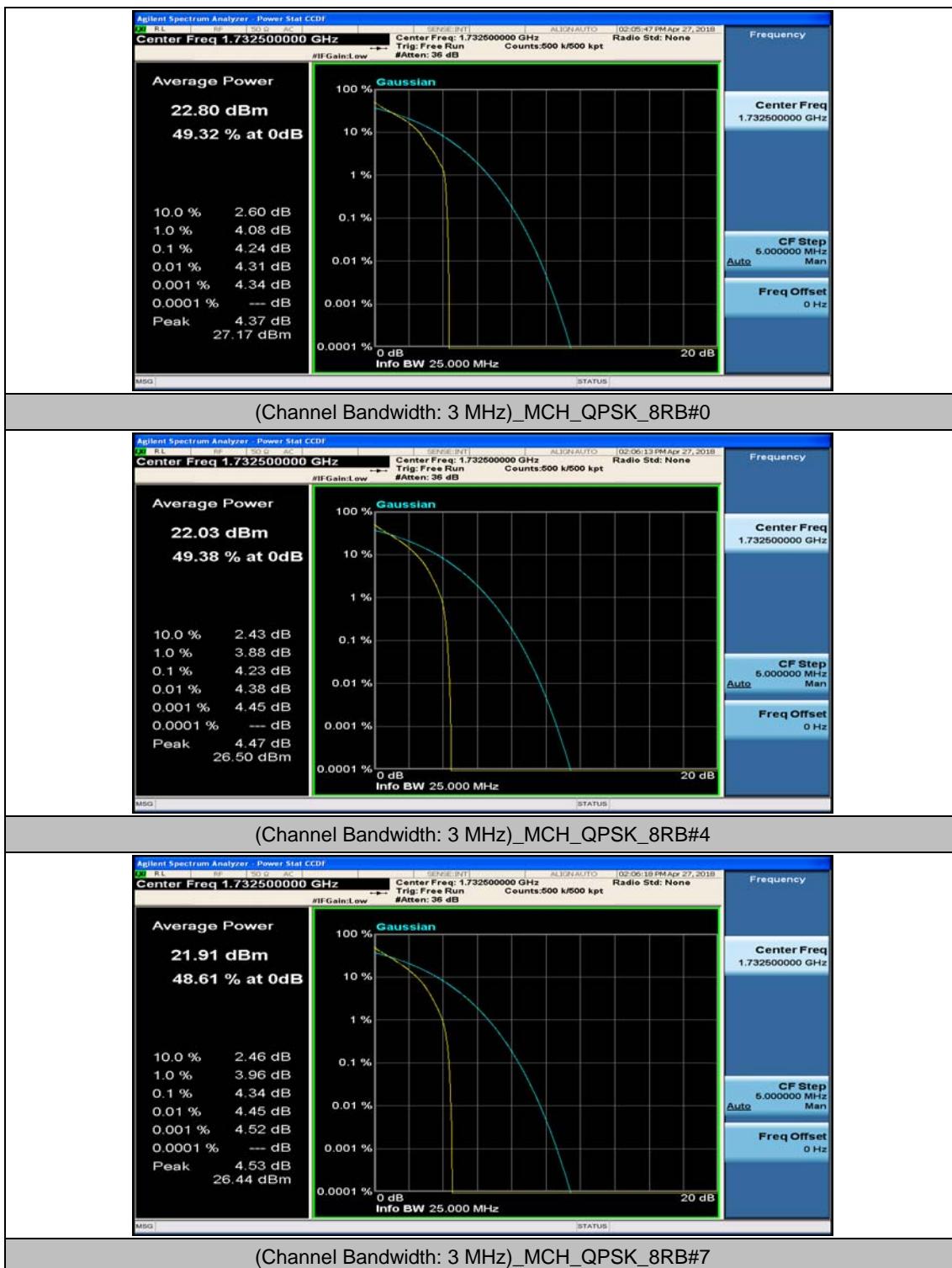


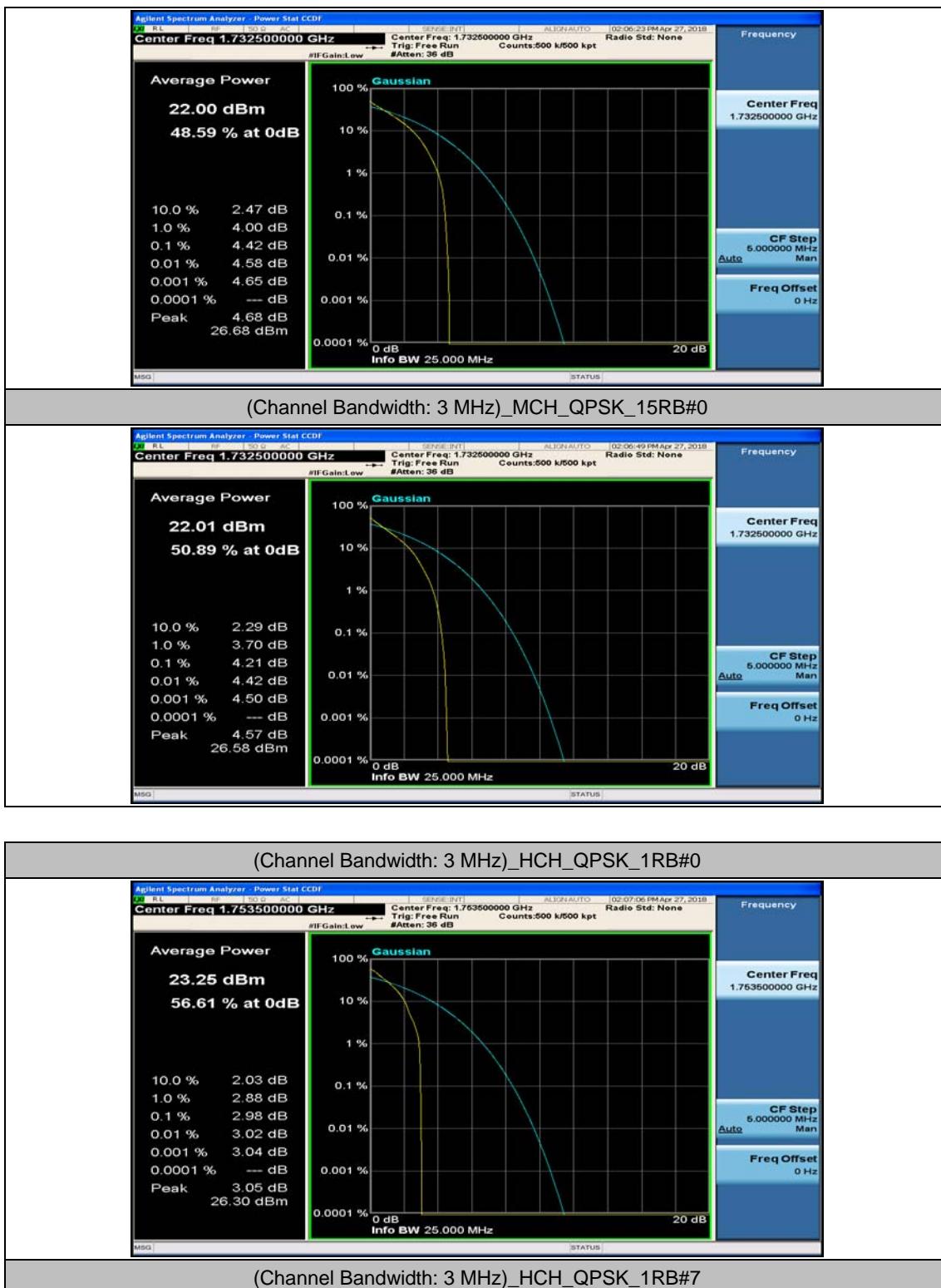
## Channel Bandwidth: 3 MHz

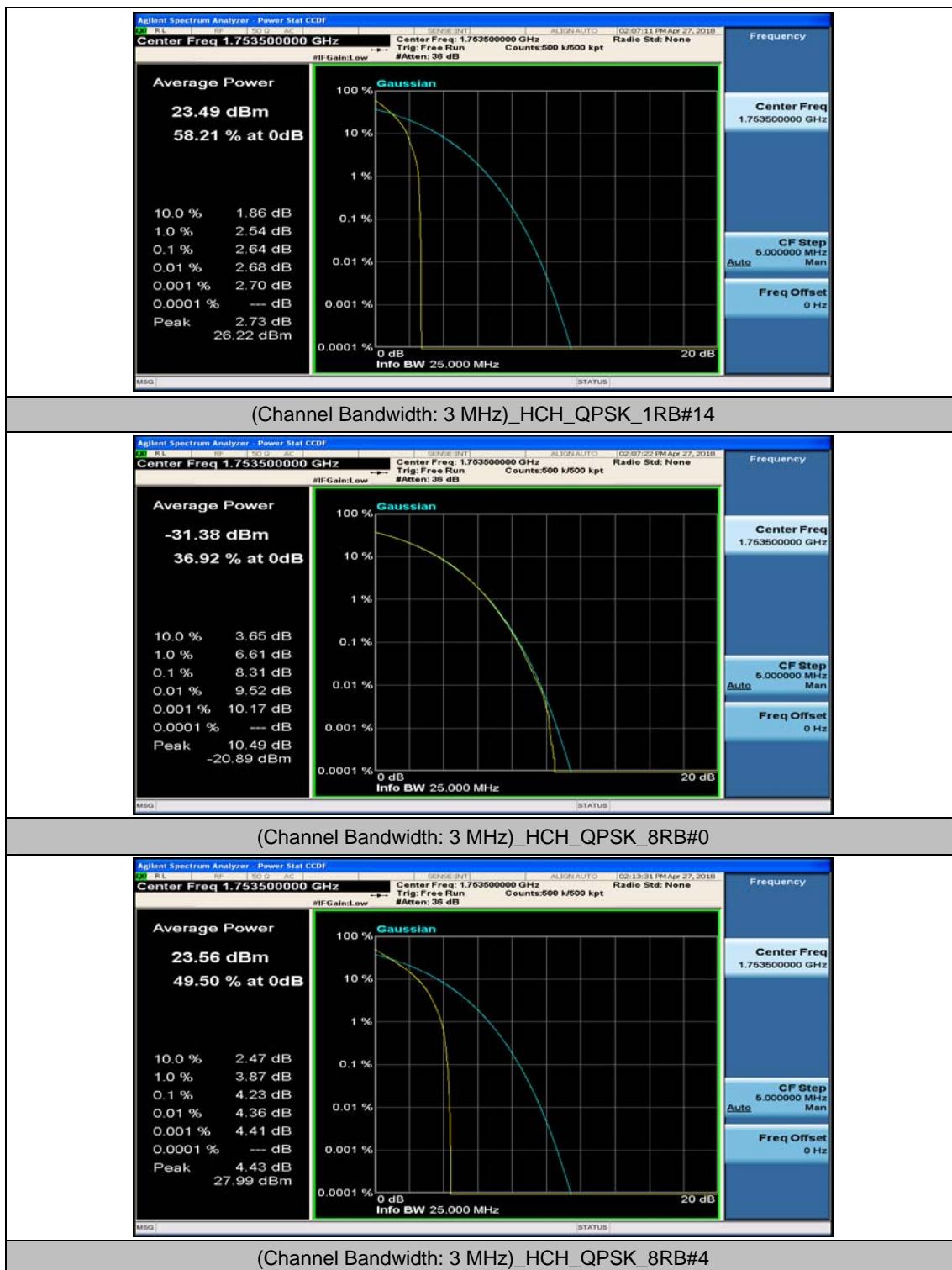


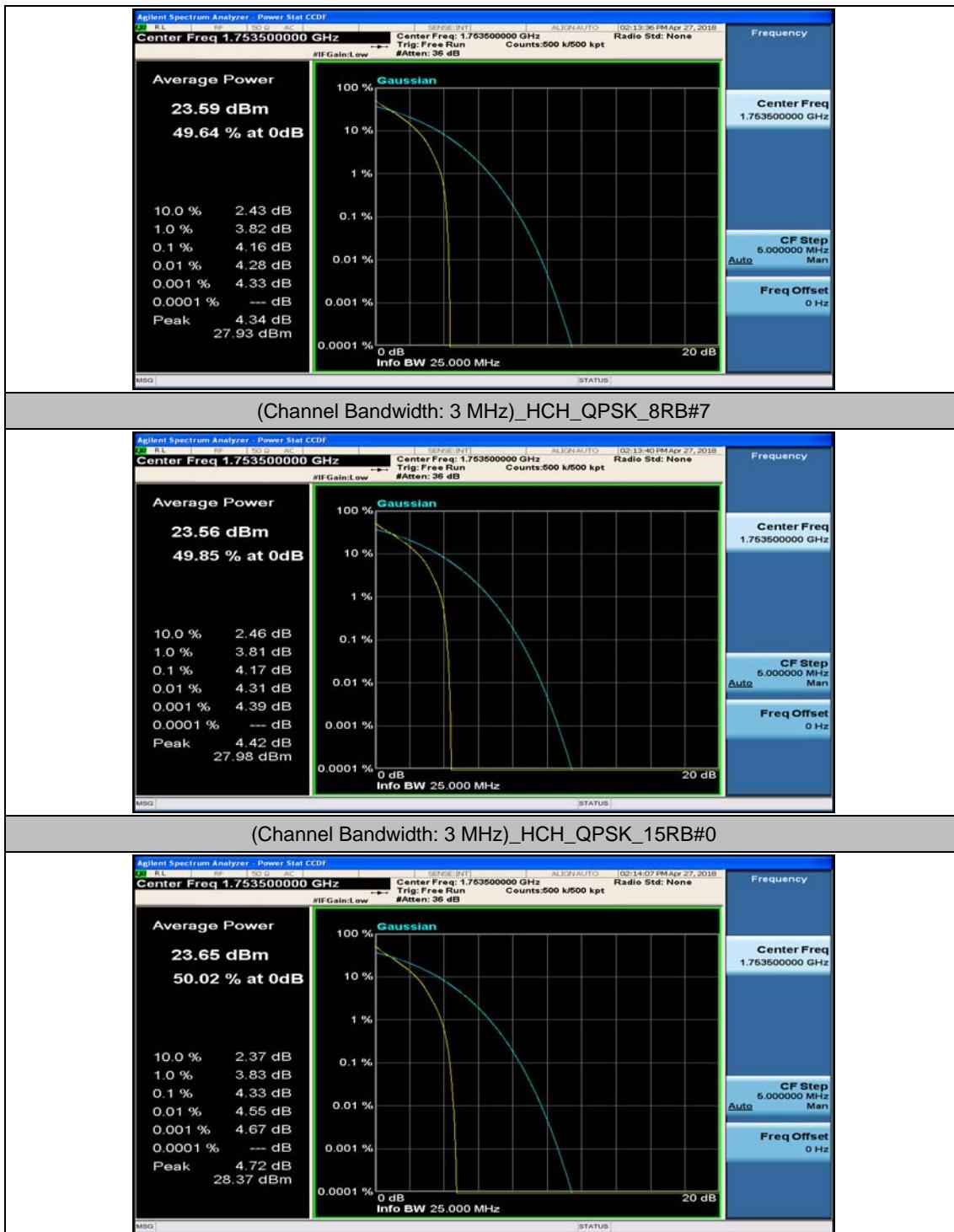


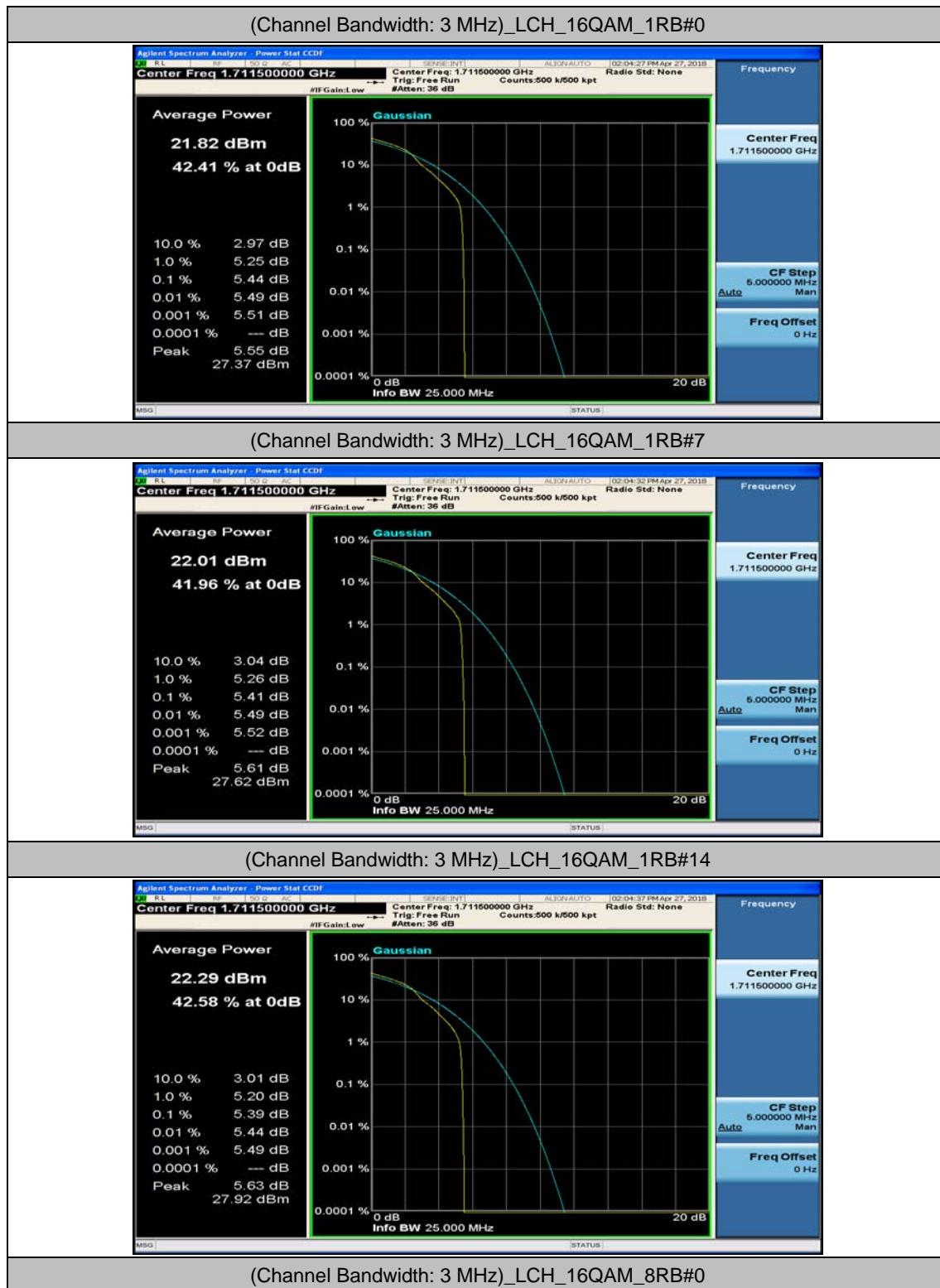


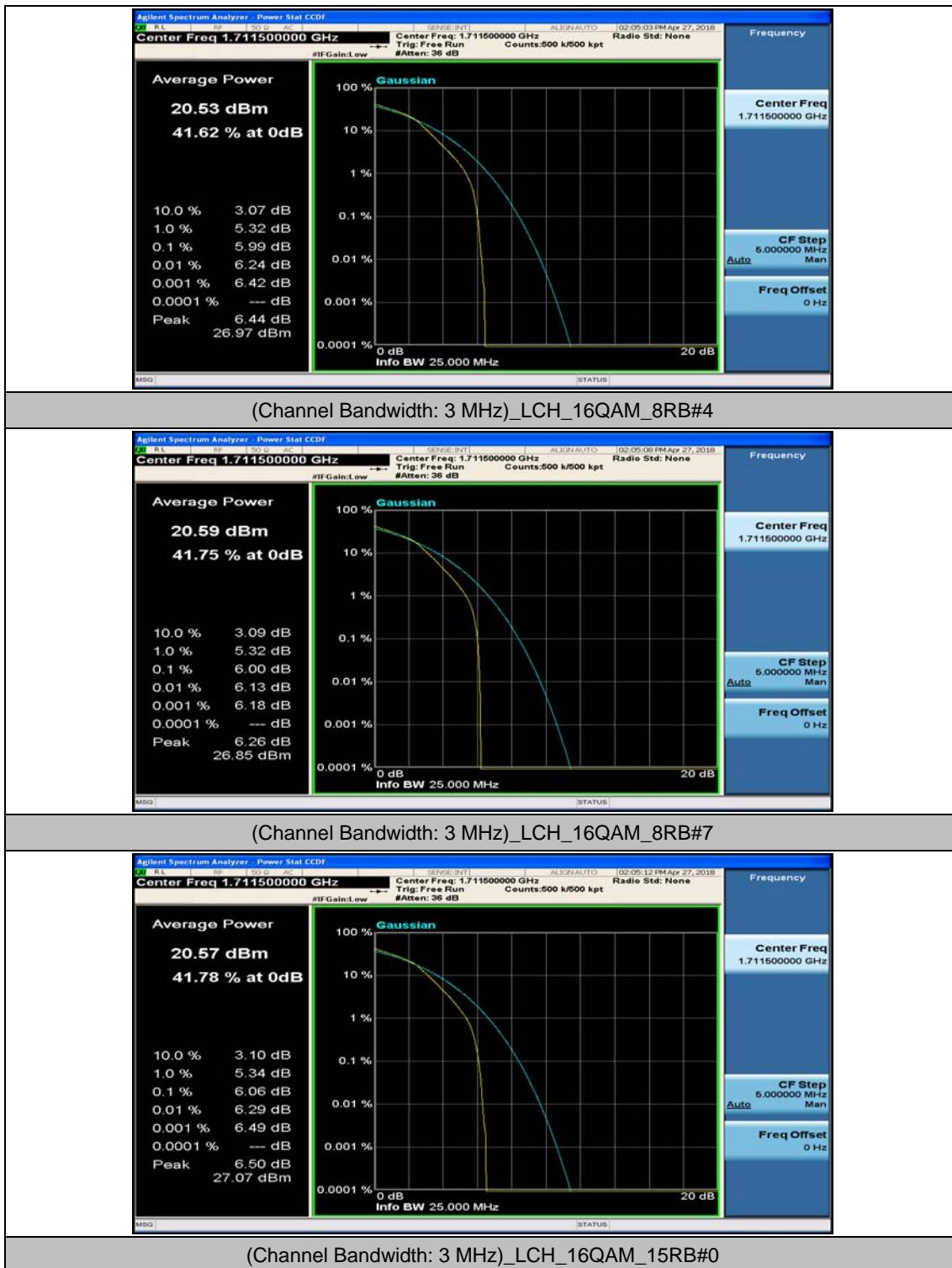


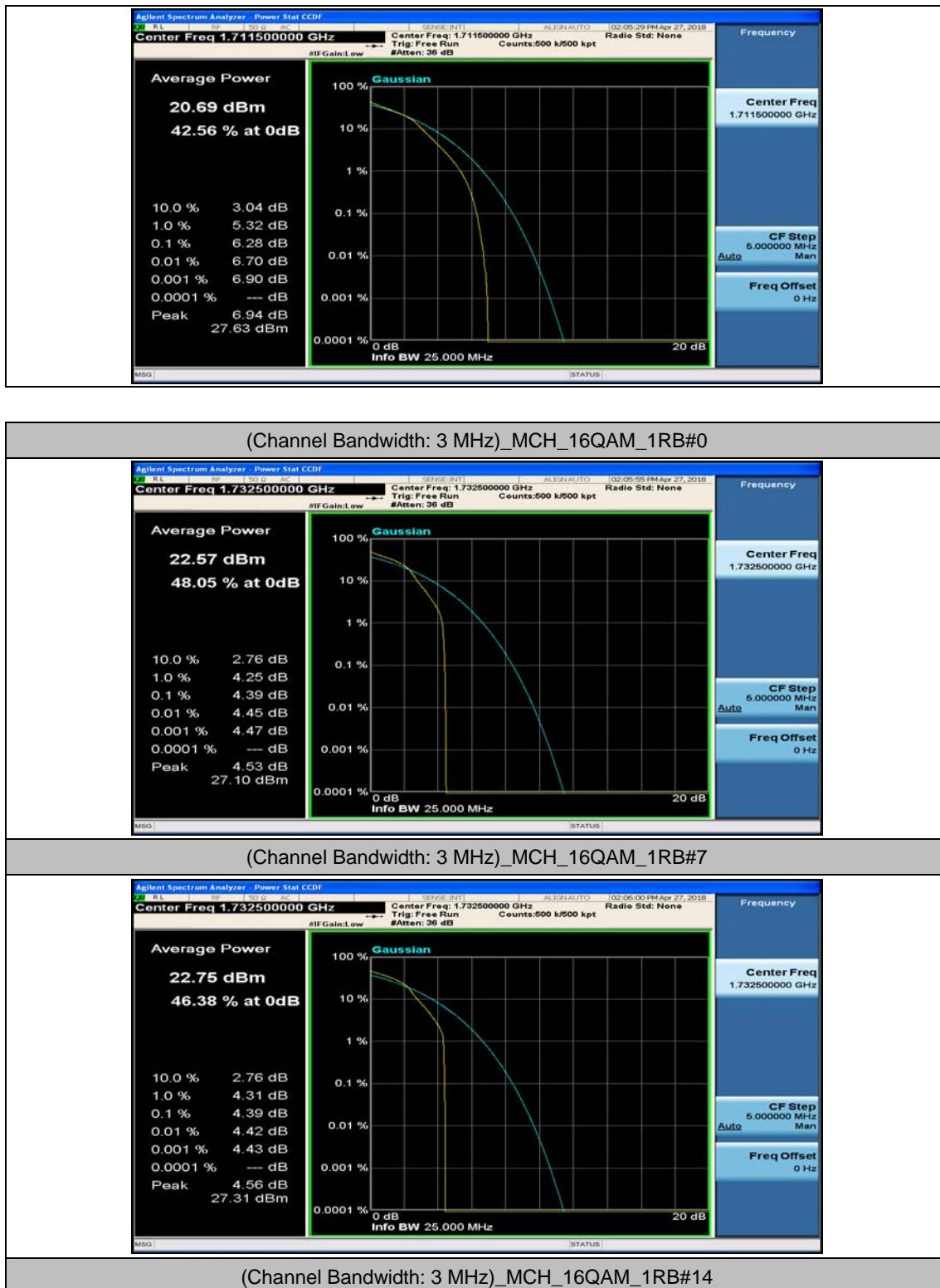


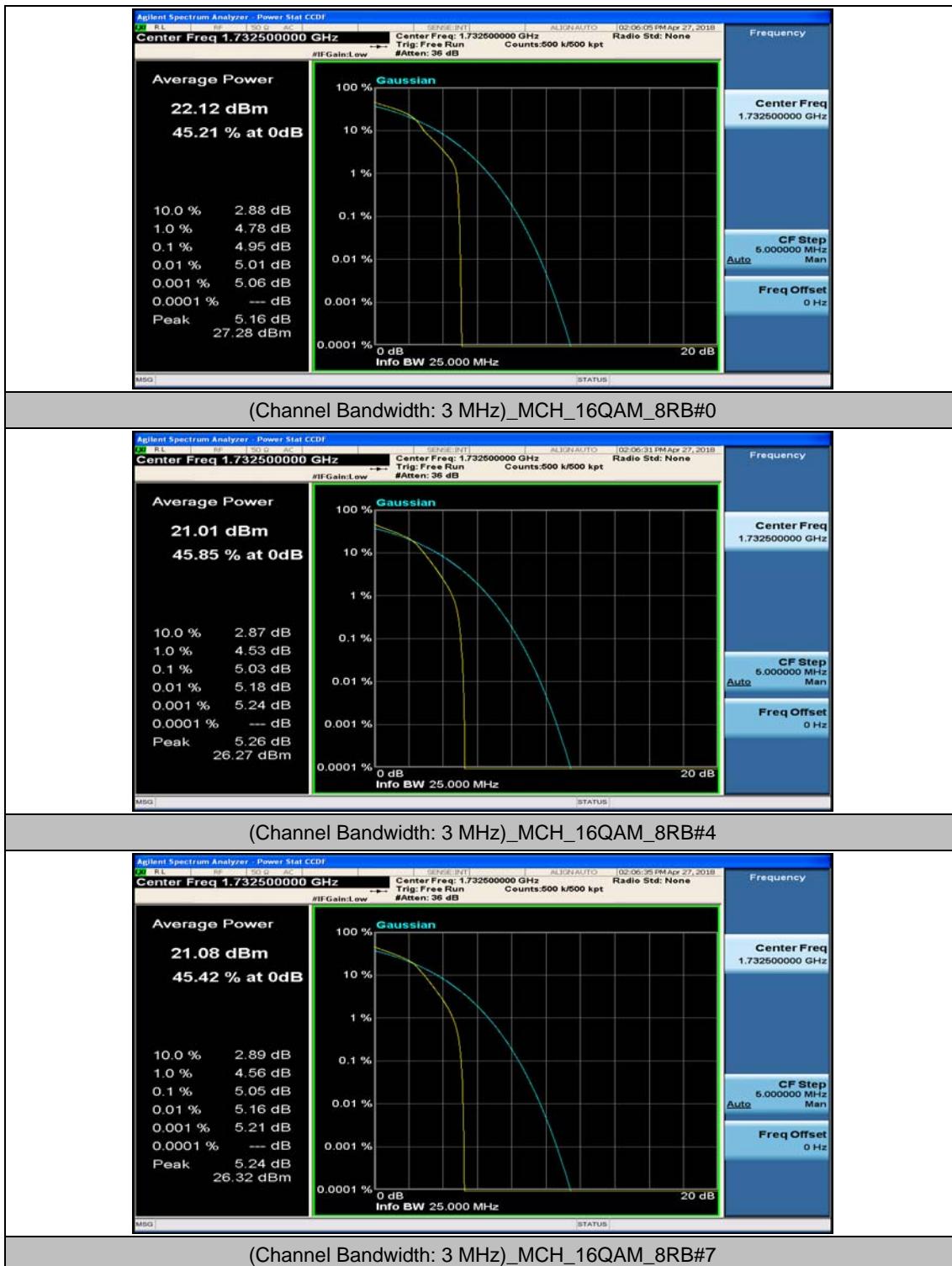


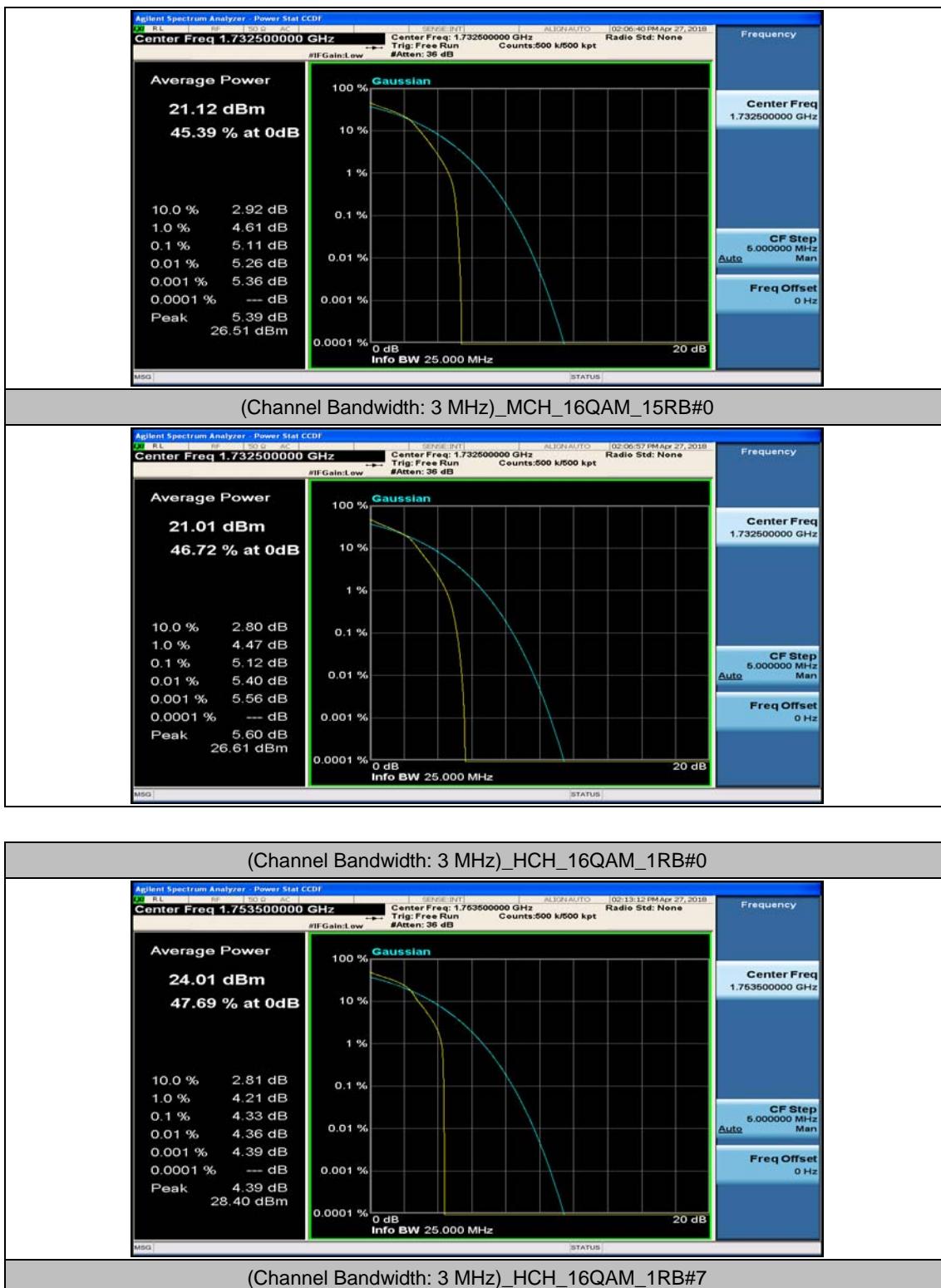


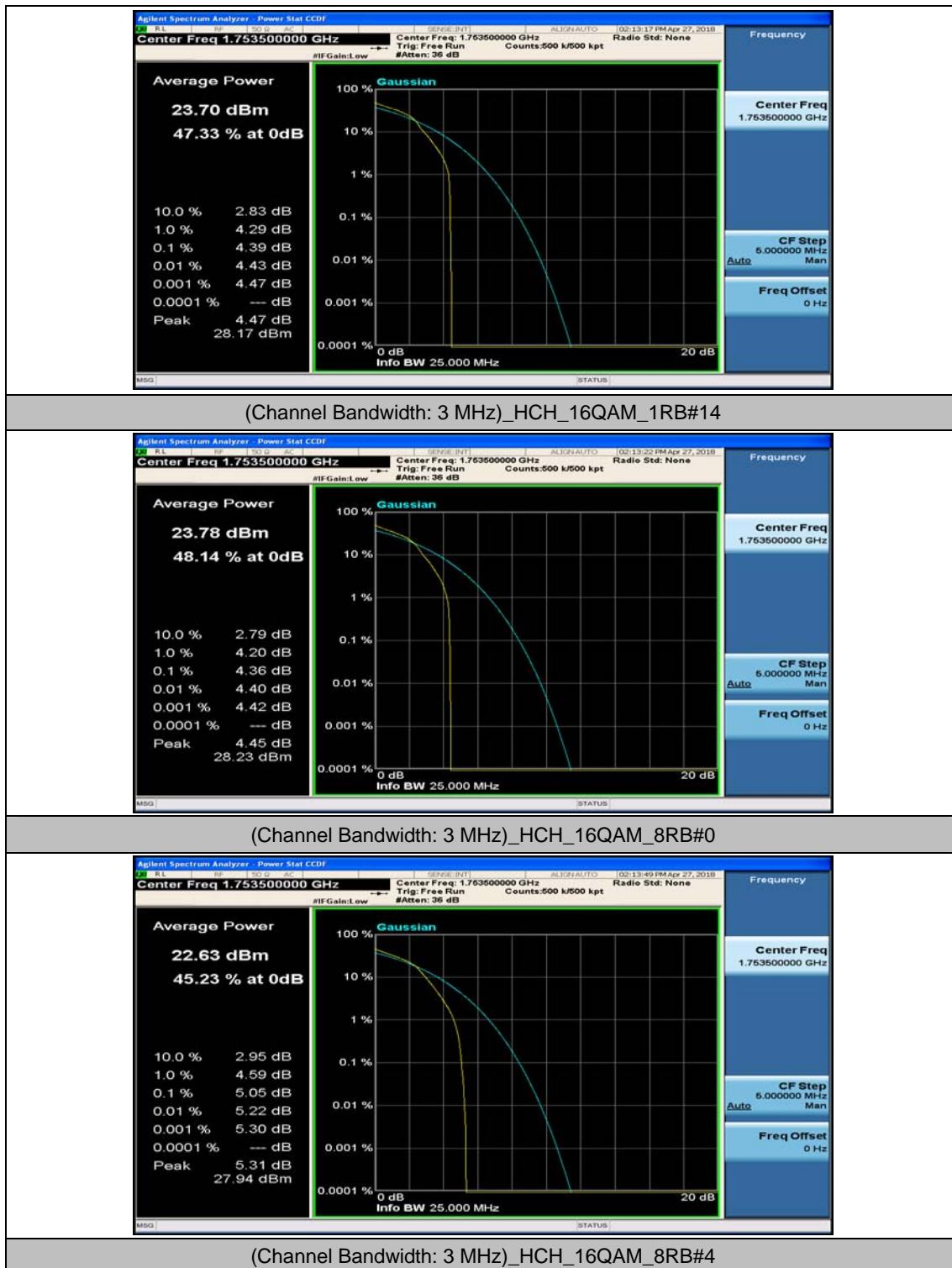


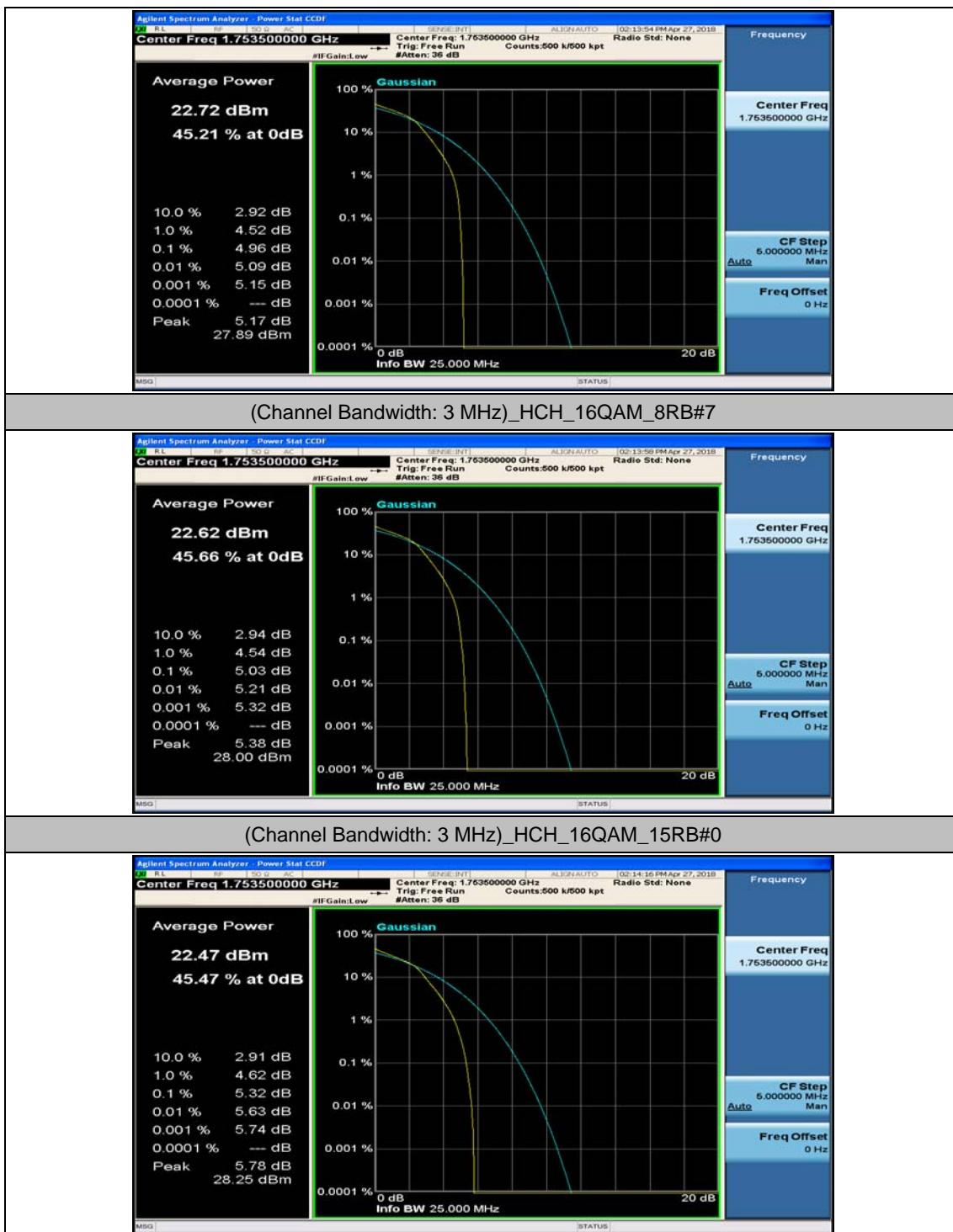




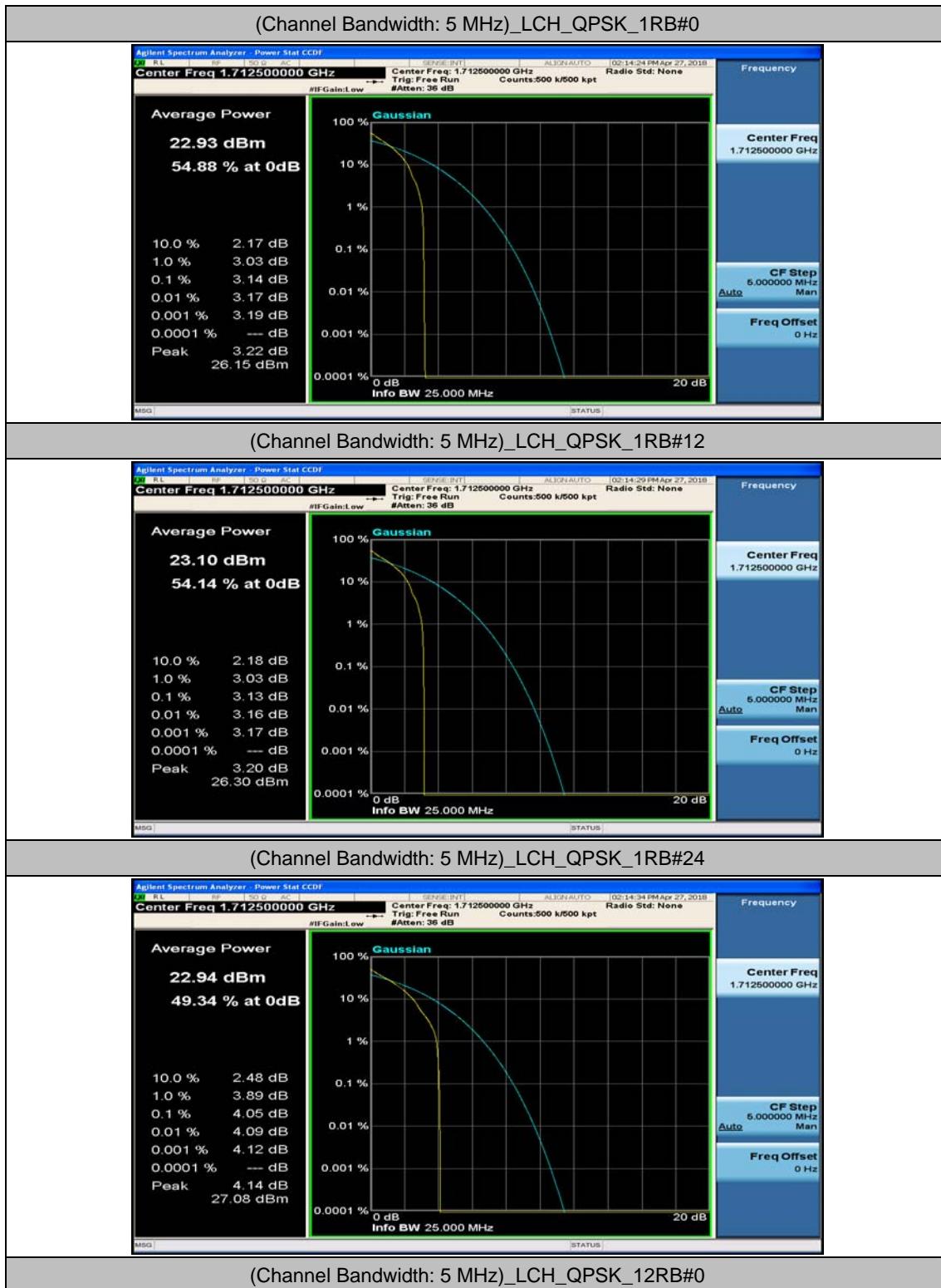


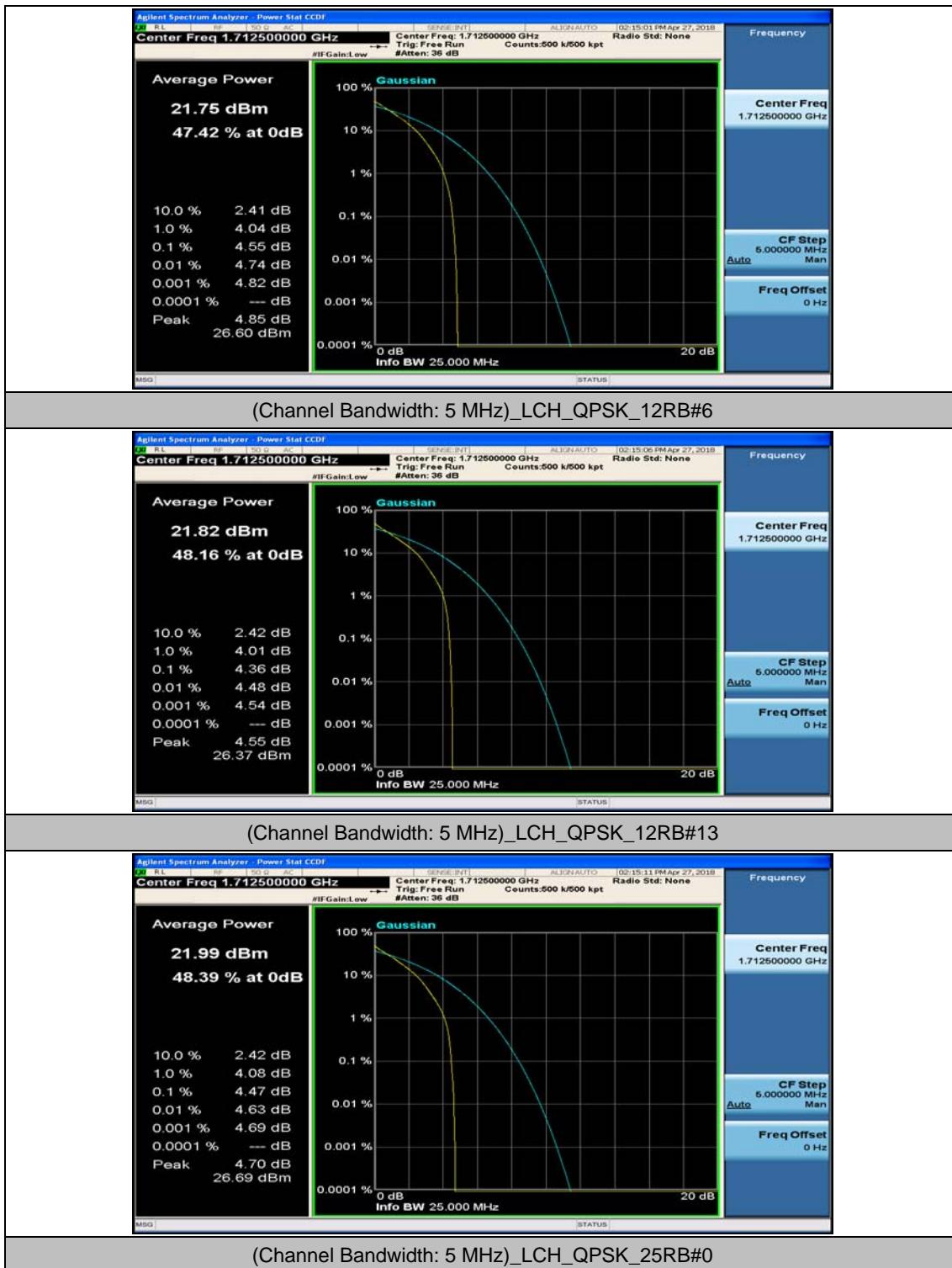


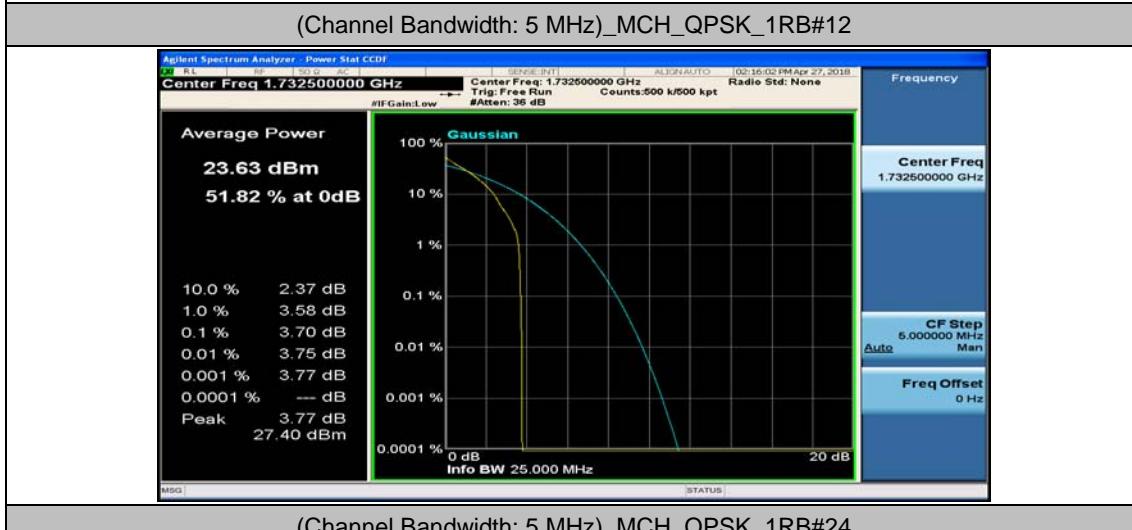
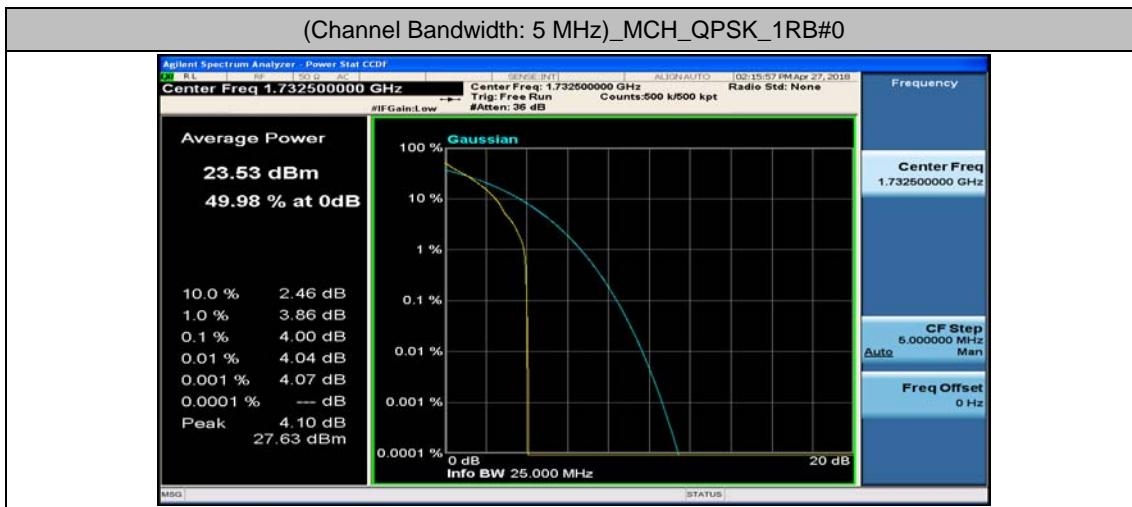
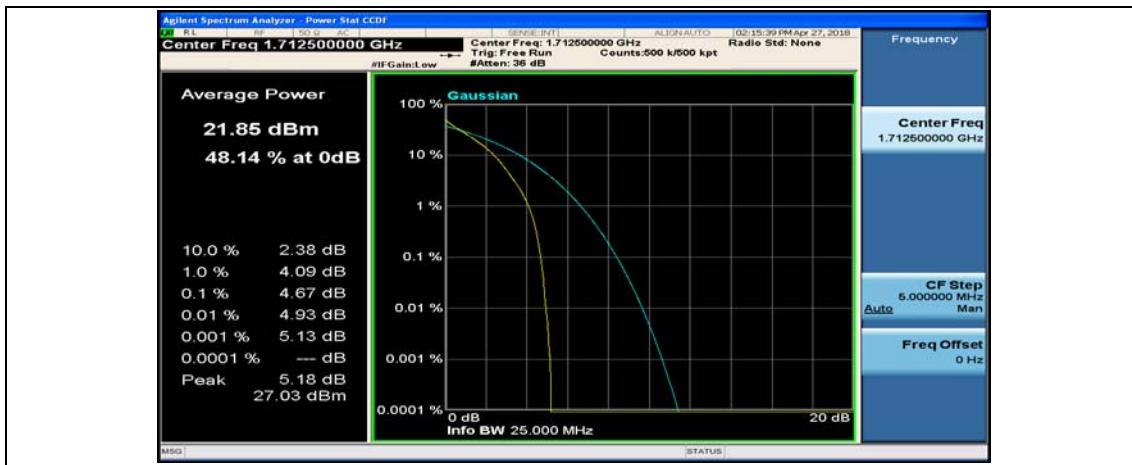




## Channel Bandwidth: 5 MHz







(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24

