Appendix for Band 12

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	23.93	PASS
		1	3	23.97	PASS
		1	5	23.89	PASS
		3	0	22.94	PASS
		3	2	22.91	PASS
		3	3	22.94	PASS
		6	0	21.98	PASS
	MCH	1	0	23.5	PASS
		1	3	23.52	PASS
		1	5	23.45	PASS
		3	0	22.53	PASS
		3	2	22.85	PASS
		3	3	22.98	PASS
		6	0	21.51	PASS
	HCH	1	0	23.15	PASS
		1	3	23.18	PASS
		1	5	23.12	PASS
		3	0	22.72	PASS
		3	2	22.66	PASS
		3	3	22.86	PASS
		6	0	21.98	PASS
16QAM	LCH	1	0	23.08	PASS
		1	3	23.21	PASS
		1	5	23.1	PASS
		3	0	23.03	PASS
		3	2	22.97	PASS
		3	3	23.01	PASS
		6	0	21.92	PASS
	MCH	1	0	22.74	PASS
		1	3	22.76	PASS
		1	5	22.68	PASS

		3	0	22.42	PASS
		3	2	22.37	PASS
		3	3	22.41	PASS
		6	0	21.38	PASS
	HCH	1	0	22.38	PASS
		1	3	22.48	PASS
		1	5	22.3	PASS
		3	0	22.22	PASS
		3	2	22.16	PASS
		3	3	22.19	PASS
		6	0	21.27	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.85	PASS
		1	7	23.94	PASS
		1	14	23.77	PASS
		8	0	23.02	PASS
		8	4	22.97	PASS
		8	7	22.96	PASS
		15	0	22.93	PASS
	MCH	1	0	23.53	PASS
		1	7	23.54	PASS
		1	14	23.36	PASS
		8	0	22.57	PASS
		8	4	22.54	PASS
		8	7	22.51	PASS
		15	0	22.44	PASS
	HCH	1	0	23.19	PASS
		1	7	23.23	PASS
		1	14	23.08	PASS
		8	0	22.23	PASS
		8	4	22.19	PASS
		8	7	22.2	PASS
		15	0	22.17	PASS
16QAM	LCH	1	0	23.09	PASS
		1	7	23.21	PASS
		1	14	23.03	PASS
		8	0	22.03	PASS
		8	4	22.02	PASS
		8	7	21.98	PASS

		15	0	21.89	PASS
	MCH	1	0	22.8	PASS
		1	7	22.79	PASS
		1	14	22.63	PASS
		8	0	21.52	PASS
		8	4	21.46	PASS
		8	7	21.43	PASS
		15	0	21.42	PASS
	HCH	1	0	22.43	PASS
		1	7	22.49	PASS
		1	14	22.27	PASS
		8	0	21.16	PASS
		8	4	21.12	PASS
		8	7	21.13	PASS
		15	0	21.16	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.89	PASS
		1	12	23.94	PASS
		1	24	23.76	PASS
		12	0	23.01	PASS
		12	6	22.93	PASS
		12	13	22.85	PASS
		25	0	22.9	PASS
	MCH	1	0	23.71	PASS
		1	12	23.61	PASS
		1	24	23.39	PASS
		12	0	22.59	PASS
		12	6	22.53	PASS
		12	13	22.47	PASS
		25	0	22.47	PASS
	HCH	1	0	23.39	PASS
		1	12	23.38	PASS
		1	24	23.19	PASS
		12	0	22.3	PASS
		12	6	22.27	PASS
		12	13	22.23	PASS
		25	0	22.24	PASS
16QAM	LCH	1	0	23.19	PASS
		1	12	23.27	PASS

		1	24	22.98	PASS
		12	0	22.05	PASS
		12	6	21.98	PASS
		12	13	21.89	PASS
		25	0	21.87	PASS
	MCH	1	0	22.87	PASS
		1	12	22.74	PASS
		1	24	22.58	PASS
		12	0	21.68	PASS
		12	6	21.59	PASS
		12	13	21.55	PASS
		25	0	21.46	PASS
	HCH	1	0	22.53	PASS
		1	12	22.56	PASS
		1	24	22.34	PASS
		12	0	21.31	PASS
		12	6	21.26	PASS
		12	13	21.22	PASS
		25	0	21.26	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	24.02	PASS
		1	24	23.7	PASS
		1	49	23.41	PASS
		25	0	23.37	PASS
		25	12	22.75	PASS
		25	25	22.58	PASS
		50	0	23.11	PASS
	MCH	1	0	23.8	PASS
		1	24	23.51	PASS
		1	49	23.26	PASS
		25	0	22.93	PASS
		25	12	22.85	PASS
		25	25	22.87	PASS
		50	0	22.9	PASS
	HCH	1	0	23.88	PASS
		1	24	23.34	PASS
		1	49	23.16	PASS
		25	0	22.95	PASS
		25	12	22.32	PASS

		25	25	22.24	PASS
		50	0	22.93	PASS
16QAM	LCH	1	0	23.19	PASS
		1	24	22.97	PASS
		1	49	22.59	PASS
		25	0	21.89	PASS
		25	12	21.72	PASS
		25	25	21.56	PASS
		50	0	21.71	PASS
	MCH	1	0	23.16	PASS
		1	24	22.77	PASS
		1	49	22.65	PASS
		25	0	21.64	PASS
		25	12	21.51	PASS
		25	25	21.38	PASS
		50	0	21.55	PASS
	HCH	1	0	22.75	PASS
		1	24	22.59	PASS
		1	49	22.37	PASS
		25	0	21.42	PASS
		25	12	21.3	PASS
		25	25	21.21	PASS
		50	0	21.36	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	Limit	Verdict
		Size	Offset	(dB)	(dB)	
QPSK	LCH	1	0	3.87	<13	PASS
		1	3	3.92	<13	PASS
		1	5	3.9	<13	PASS
		3	0	3.61	<13	PASS
		3	2	3.59	<13	PASS
		3	3	3.61	<13	PASS
		6	0	4.55	<13	PASS
	MCH	1	0	3.57	<13	PASS
		1	3	3.42	<13	PASS
		1	5	3.41	<13	PASS
		3	0	3.39	<13	PASS
		3	2	3.41	<13	PASS
		3	3	3.34	<13	PASS
		6	0	4.23	<13	PASS
	HCH	1	0	4.06	<13	PASS
		1	3	3.90	<13	PASS
		1	5	3.80	<13	PASS
		3	0	3.74	<13	PASS
		3	2	3.69	<13	PASS
		3	3	3.63	<13	PASS
		6	0	4.61	<13	PASS
16QAM	LCH	1	0	4.86	<13	PASS
		1	3	4.81	<13	PASS
		1	5	4.79	<13	PASS
		3	0	4.64	<13	PASS
		3	2	4.65	<13	PASS
		3	3	4.60	<13	PASS
		6	0	5.45	<13	PASS
	MCH	1	0	4.63	<13	PASS
		1	3	4.52	<13	PASS
		1	5	4.54	<13	PASS
		3	0	4.33	<13	PASS
		3	2	4.40	<13	PASS

		3	3	4.42	<13	PASS
		6	0	5.23	<13	PASS
		1	0	5.14	<13	PASS
		1	3	4.90	<13	PASS
		1	5	4.87	<13	PASS
	HCH	3	0	4.64	<13	PASS
		3	2	4.53	<13	PASS
		3	3	4.54	<13	PASS
		6	0	5.50	<13	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	3.91	<13	PASS
		1	7	3.93	<13	PASS
		1	14	4.03	<13	PASS
		8	0	4.61	<13	PASS
		8	4	4.66	<13	PASS
		8	7	4.64	<13	PASS
		15	0	4.75	<13	PASS
	MCH	1	0	3.74	<13	PASS
		1	7	3.46	<13	PASS
		1	14	3.44	<13	PASS
		8	0	4.41	<13	PASS
		8	4	4.26	<13	PASS
		8	7	4.30	<13	PASS
		15	0	4.48	<13	PASS
	HCH	1	0	4.01	<13	PASS
		1	7	4.04	<13	PASS
		1	14	4.00	<13	PASS
		8	0	4.68	<13	PASS
		8	4	4.74	<13	PASS
		8	7	4.67	<13	PASS
		15	0	4.80	<13	PASS
16QAM	LCH	1	0	4.86	<13	PASS
		1	7	4.87	<13	PASS
		1	14	4.95	<13	PASS
		8	0	5.41	<13	PASS
		8	4	5.52	<13	PASS
		8	7	5.43	<13	PASS

		15	0	5.63	<13	PASS
	MCH	1	0	4.73	<13	PASS
		1	7	4.62	<13	PASS
		1	14	4.42	<13	PASS
		8	0	5.21	<13	PASS
		8	4	5.2	<13	PASS
		8	7	5.04	<13	PASS
		15	0	5.38	<13	PASS
	HCH	1	0	4.84	<13	PASS
		1	7	5.15	<13	PASS
		1	14	4.85	<13	PASS
		8	0	5.61	<13	PASS
		8	4	5.74	<13	PASS
		8	7	5.68	<13	PASS
		15	0	5.67	<13	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	3.97	<13	PASS
		1	12	4.05	<13	PASS
		1	24	4.23	<13	PASS
		12	0	4.71	<13	PASS
		12	6	4.7	<13	PASS
		12	13	4.78	<13	PASS
		25	0	4.86	<13	PASS
	MCH	1	0	3.91	<13	PASS
		1	12	3.59	<13	PASS
		1	24	3.56	<13	PASS
		12	0	4.47	<13	PASS
		12	6	4.38	<13	PASS
		12	13	4.32	<13	PASS
		25	0	4.59	<13	PASS
	HCH	1	0	3.59	<13	PASS
		1	12	3.92	<13	PASS
		1	24	3.9	<13	PASS
		12	0	4.58	<13	PASS
		12	6	4.77	<13	PASS
		12	13	4.75	<13	PASS
		25	0	4.85	<13	PASS

16QAM	LCH	1	0	4.78	<13	PASS
		1	12	4.91	<13	PASS
		1	24	4.93	<13	PASS
		12	0	5.58	<13	PASS
		12	6	5.65	<13	PASS
		12	13	5.7	<13	PASS
		25	0	5.64	<13	PASS
	MCH	1	0	4.89	<13	PASS
		1	12	4.53	<13	PASS
		1	24	4.53	<13	PASS
		12	0	5.36	<13	PASS
		12	6	5.28	<13	PASS
		12	13	5.16	<13	PASS
		25	0	5.47	<13	PASS
	HCH	1	0	4.33	<13	PASS
		1	12	4.73	<13	PASS
		1	24	4.69	<13	PASS
		12	0	5.39	<13	PASS
		12	6	5.58	<13	PASS
		12	13	5.66	<13	PASS
		25	0	5.69	<13	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
		Size	Offset	[dB]	[dB]	
QPSK	LCH	1	0	3.91	<13	PASS
		1	24	4.06	<13	PASS
		1	49	3.6	<13	PASS
		25	0	4.81	<13	PASS
		25	12	4.87	<13	PASS
		25	25	4.64	<13	PASS
		50	0	4.81	<13	PASS
	MCH	1	0	3.8	<13	PASS
		1	24	3.44	<13	PASS
		1	49	3.52	<13	PASS
		25	0	4.7	<13	PASS
		25	12	4.57	<13	PASS
		25	25	4.47	<13	PASS
		50	0	4.79	<13	PASS
	HCH	1	0	3.7	<13	PASS

		1	24	3.5	<13	PASS
		1	49	3.79	<13	PASS
		25	0	4.39	<13	PASS
		25	12	4.49	<13	PASS
		25	25	4.77	<13	PASS
		50	0	4.82	<13	PASS
16QAM	LCH	1	0	4.86	<13	PASS
		1	24	4.99	<13	PASS
		1	49	4.5	<13	PASS
		25	0	5.71	<13	PASS
		25	12	5.77	<13	PASS
		25	25	5.52	<13	PASS
		50	0	5.64	<13	PASS
	MCH	1	0	4.87	<13	PASS
		1	24	4.47	<13	PASS
		1	49	4.55	<13	PASS
		25	0	5.59	<13	PASS
		25	12	5.45	<13	PASS
		25	25	5.34	<13	PASS
		50	0	5.59	<13	PASS
	HCH	1	0	4.61	<13	PASS
		1	24	4.5	<13	PASS
		1	49	4.9	<13	PASS
		25	0	5.32	<13	PASS
		25	12	5.41	<13	PASS
		25	25	5.66	<13	PASS
		50	0	5.65	<13	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0 |
|---|
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3 |
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5 |
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0 |
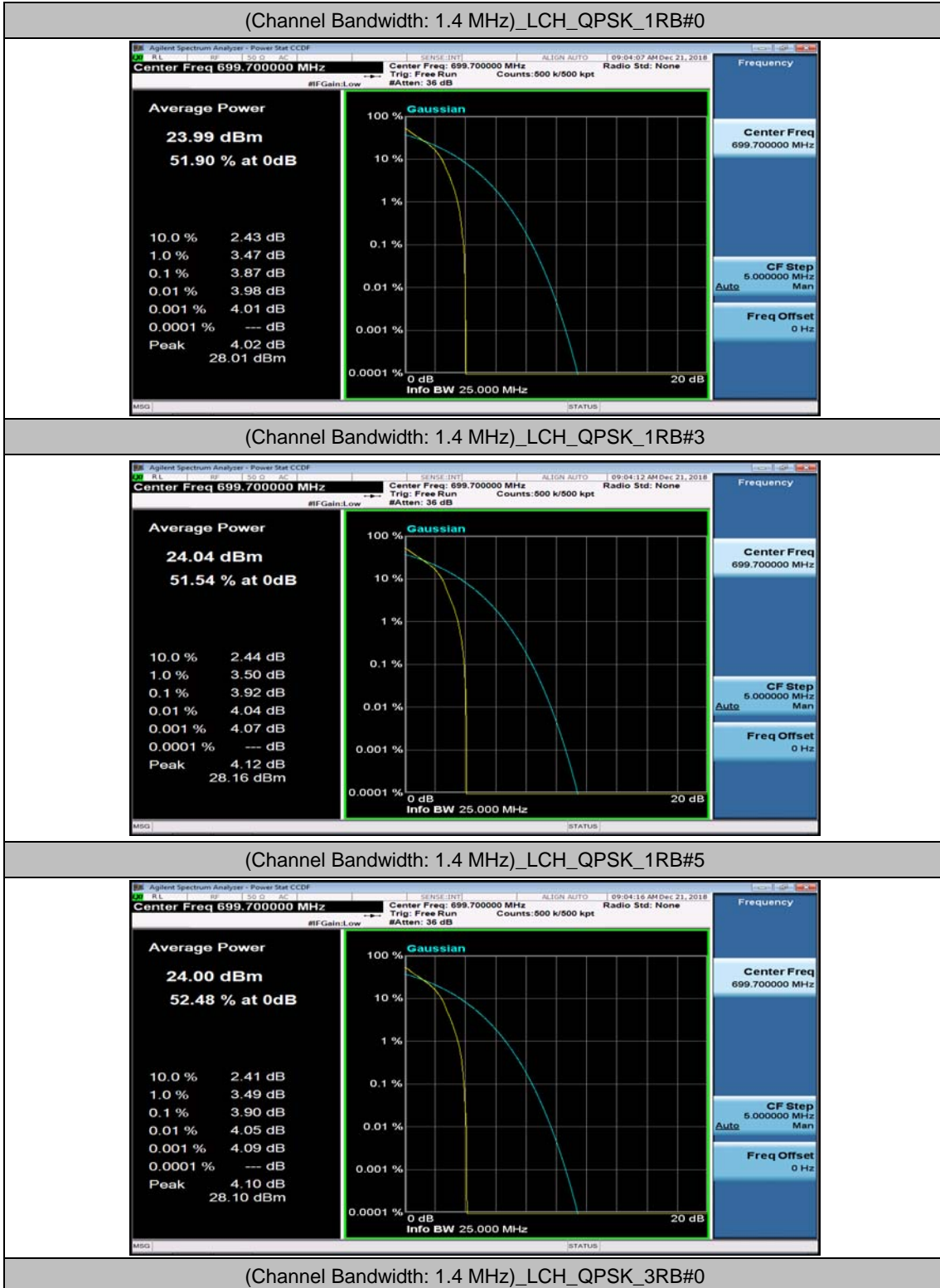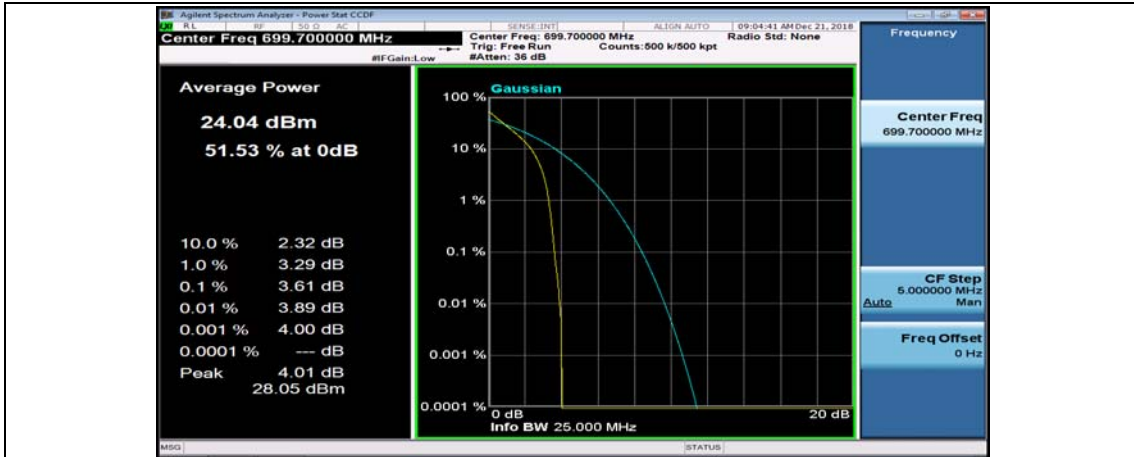
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2
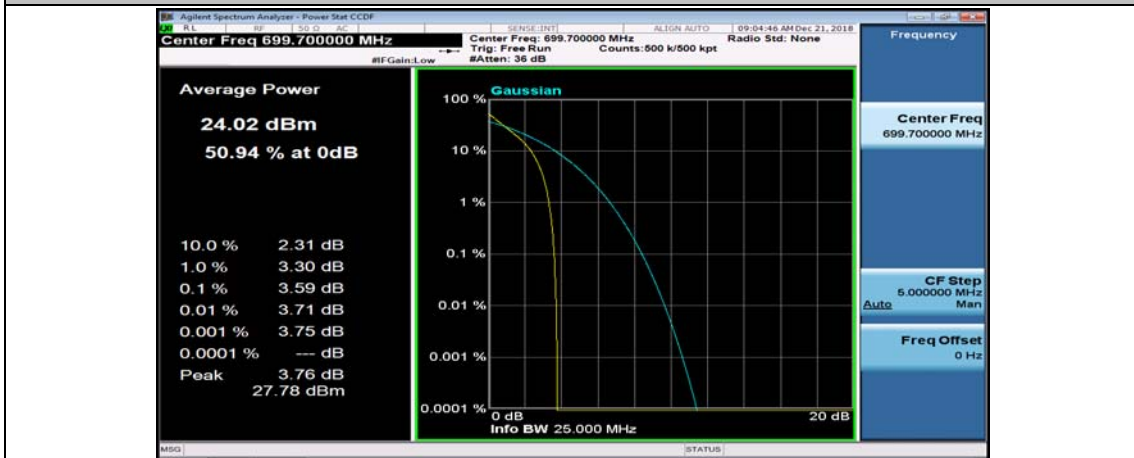
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3
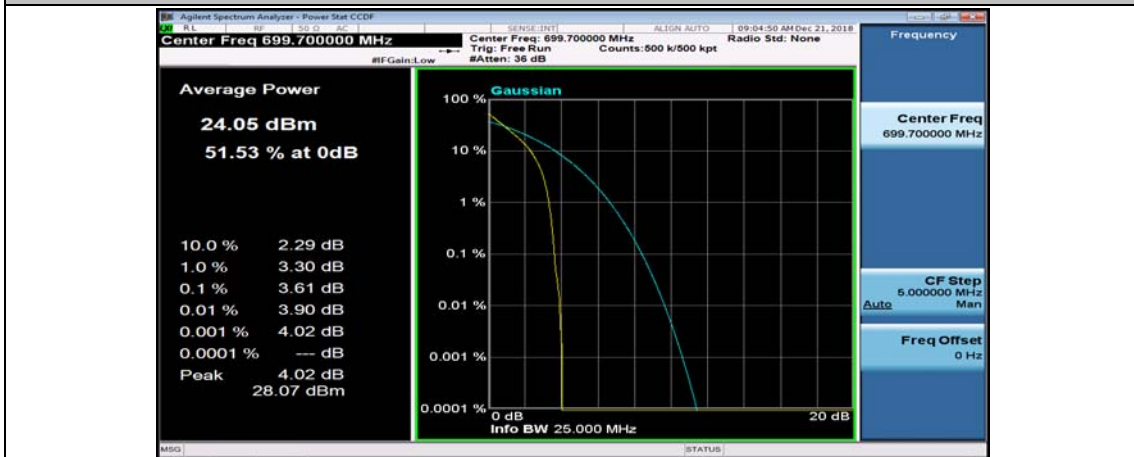
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0
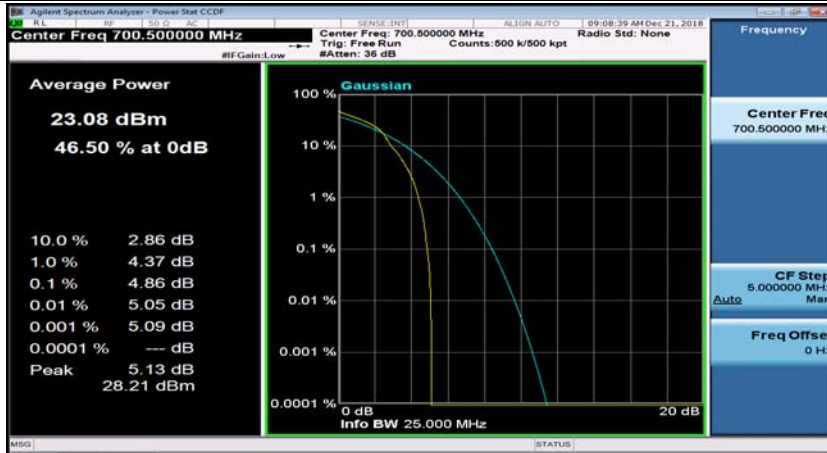
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0
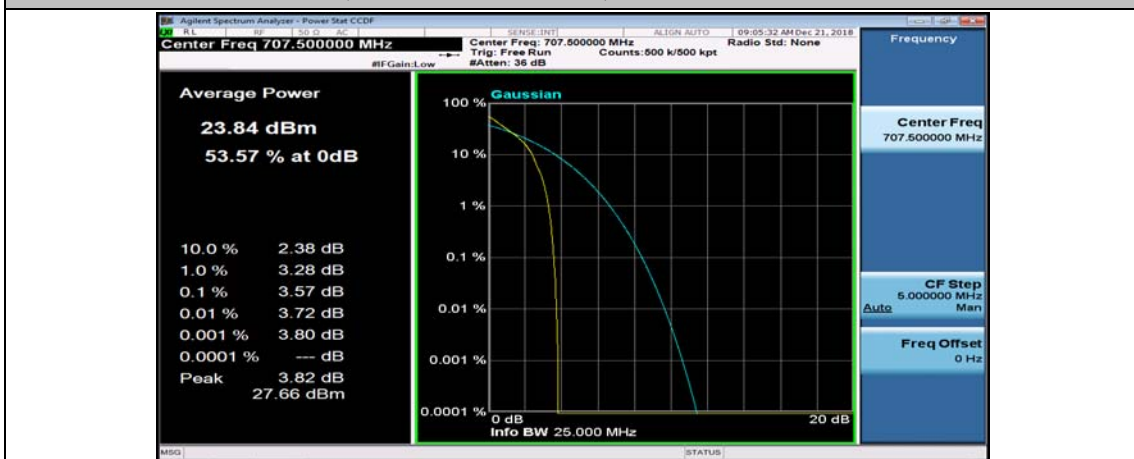
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3
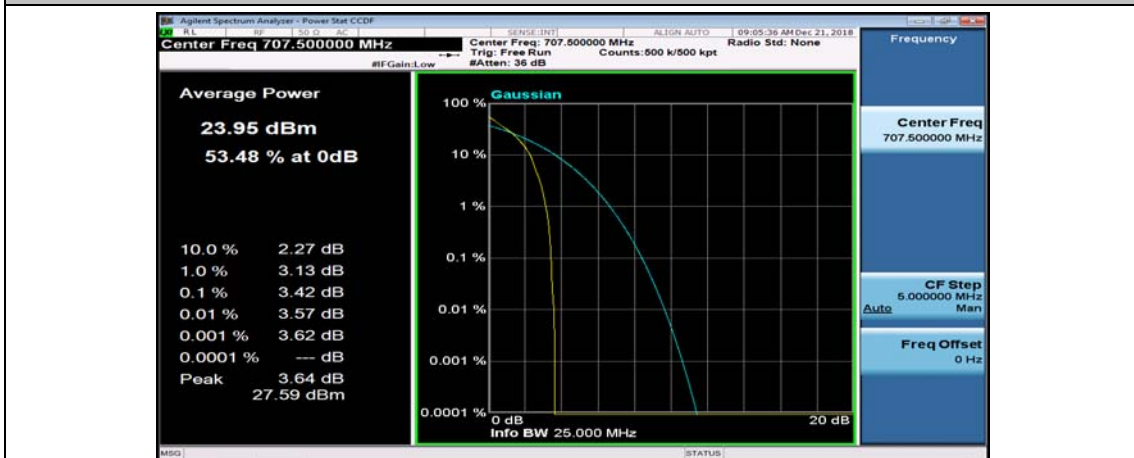
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5
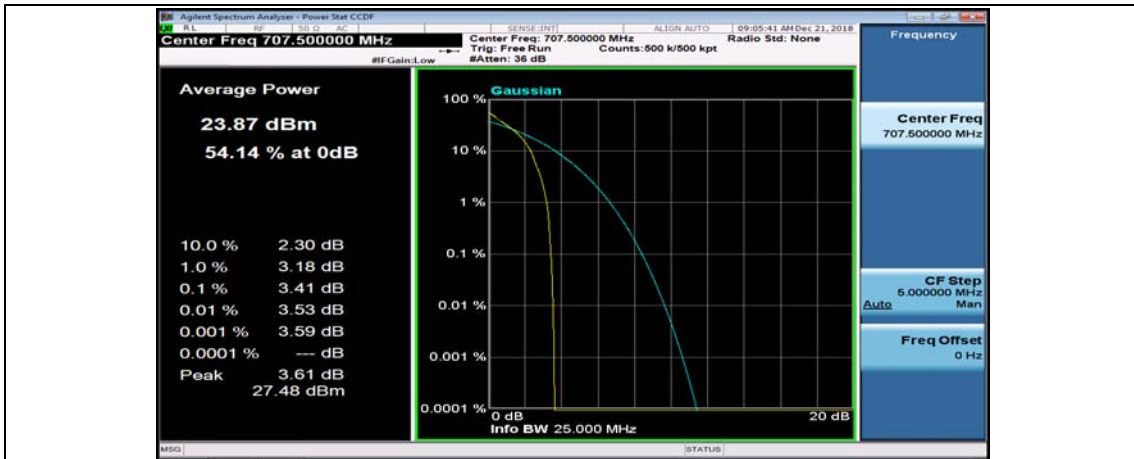
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0
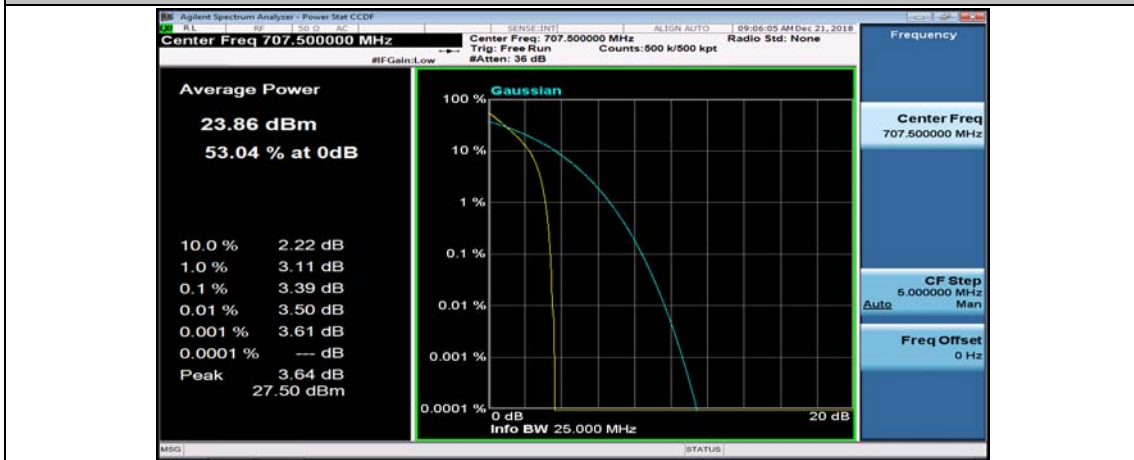
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2
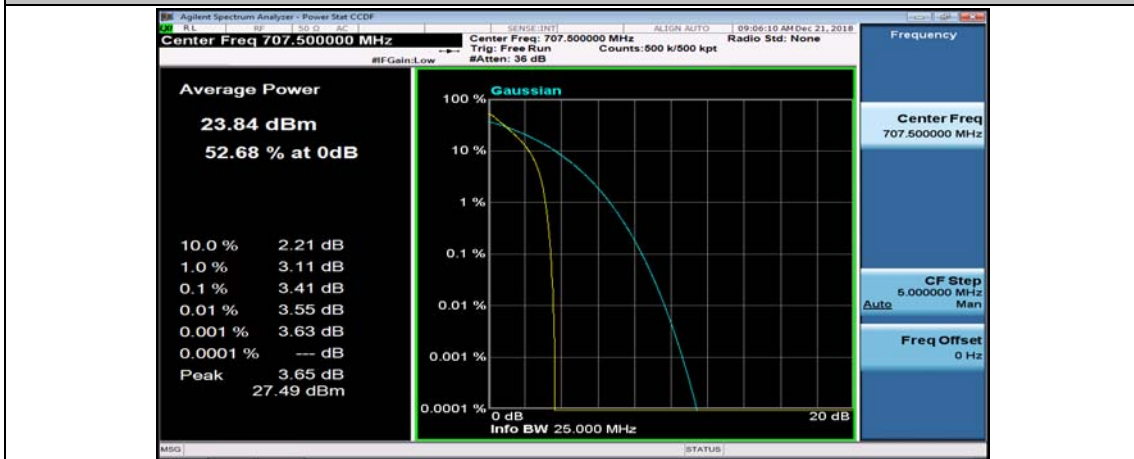
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3
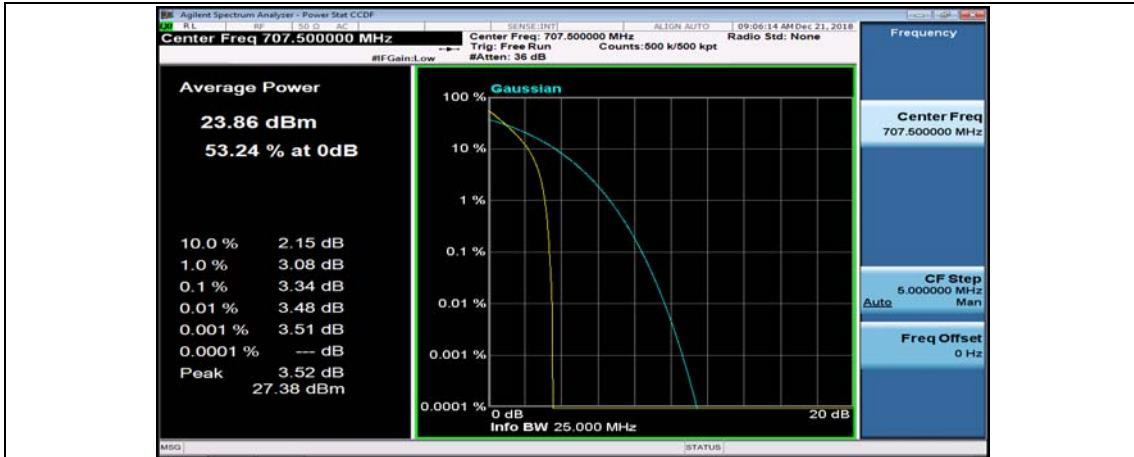
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0
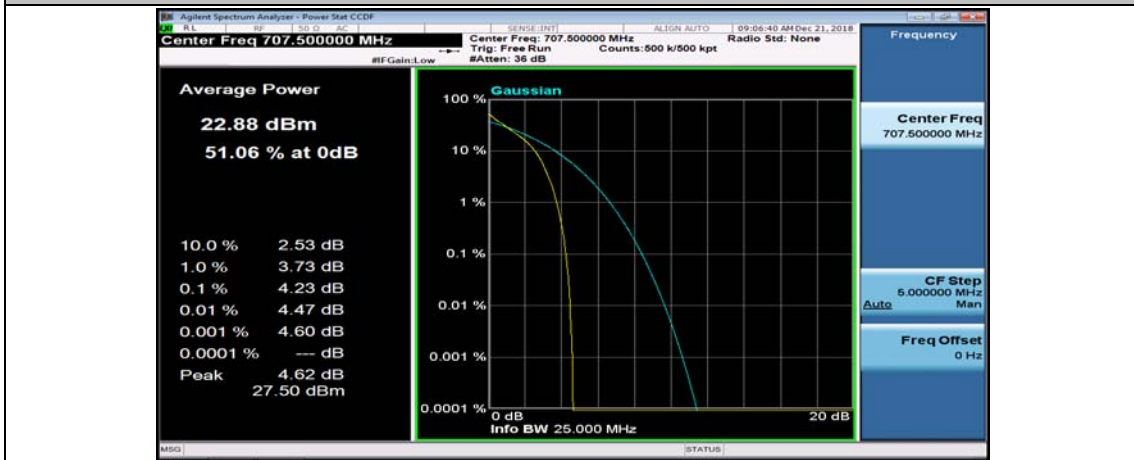
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0
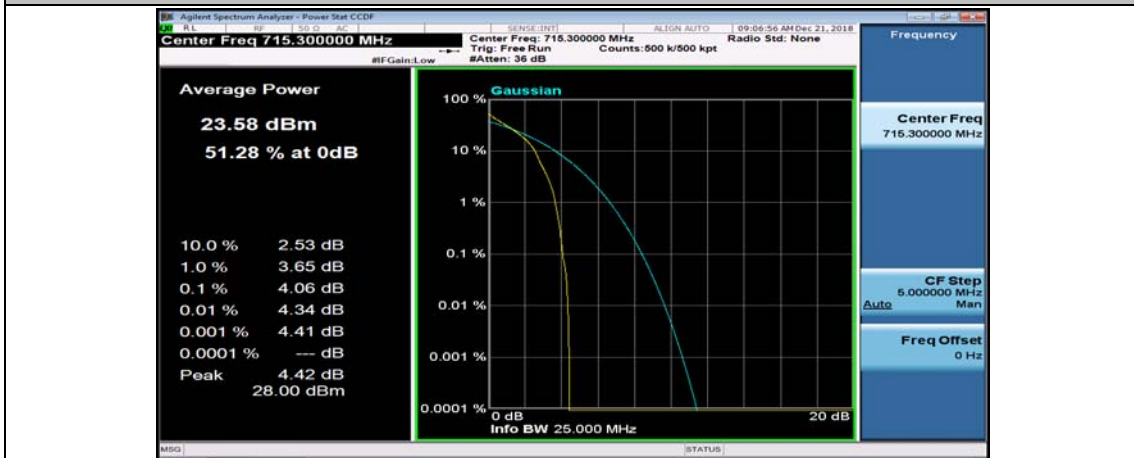
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3
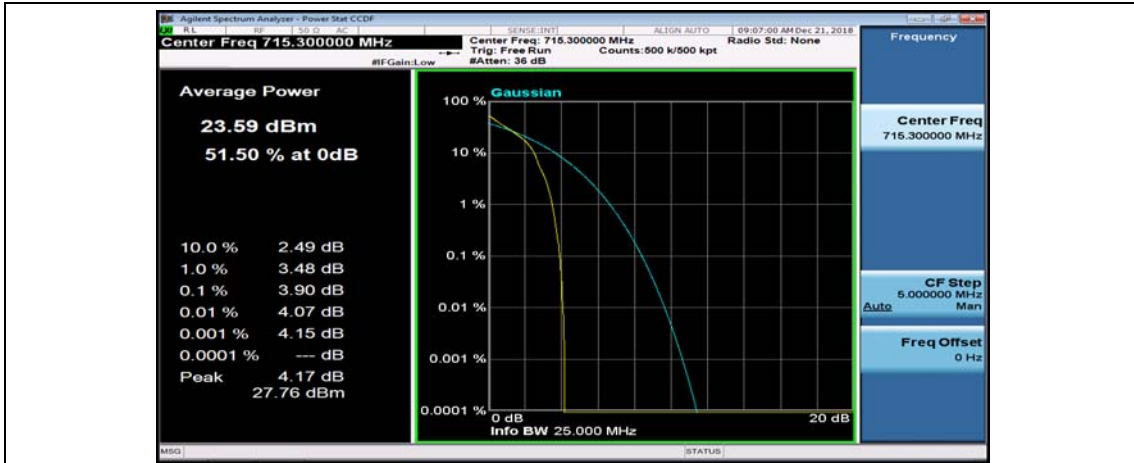
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5
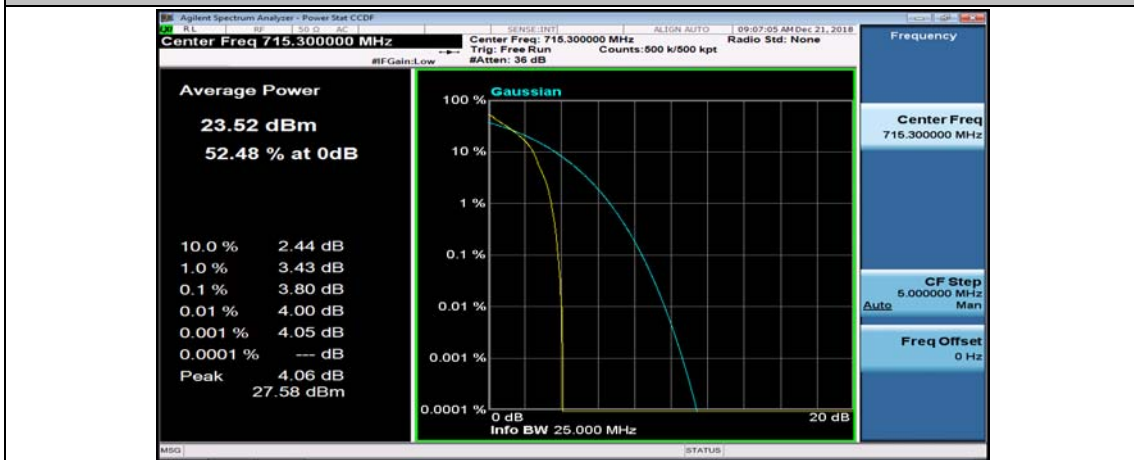
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3
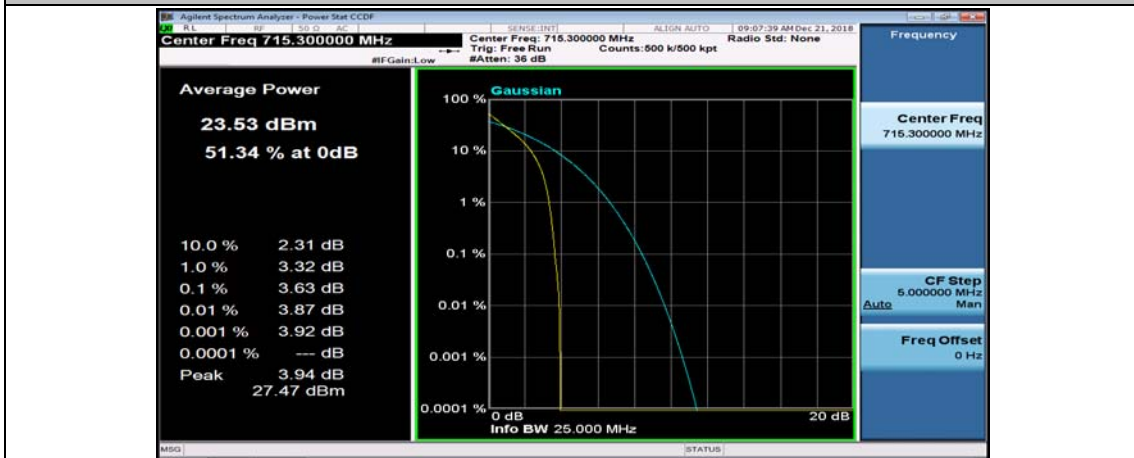
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0
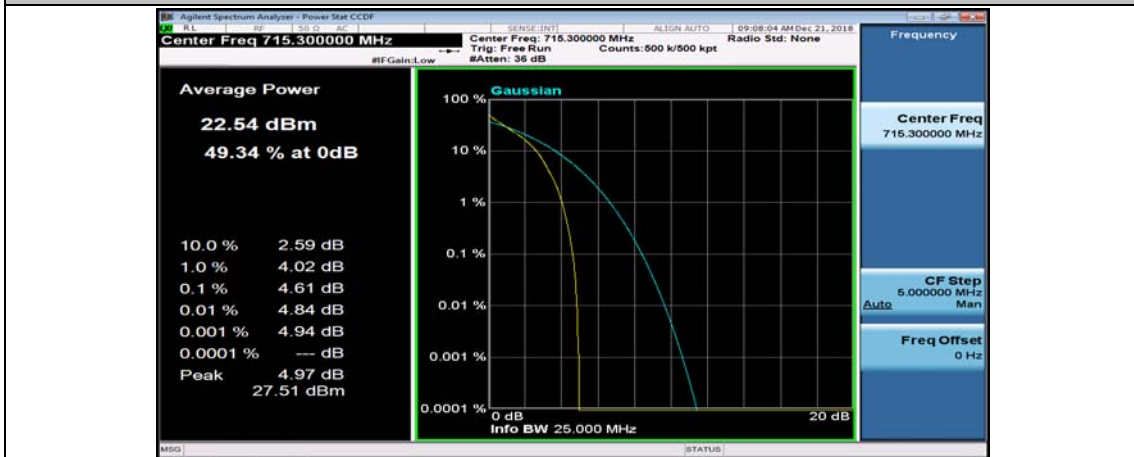
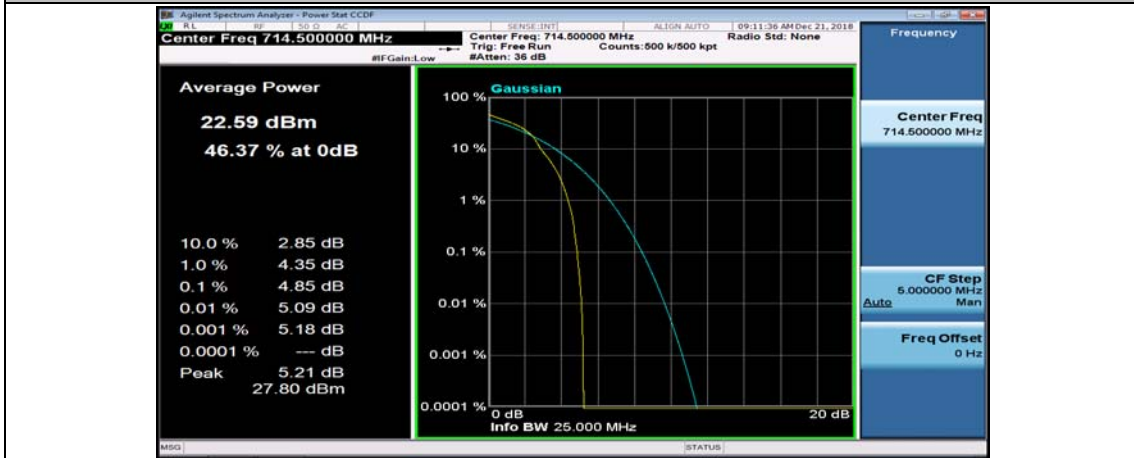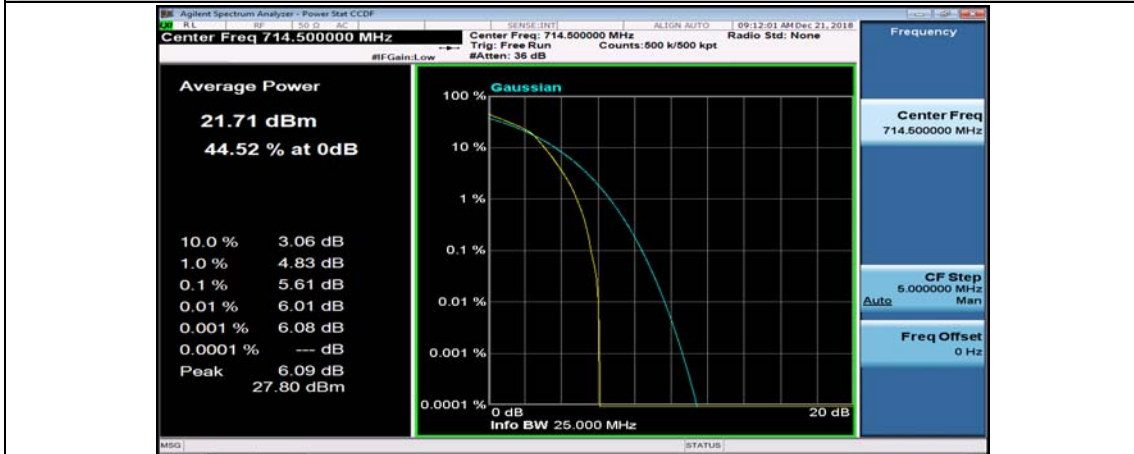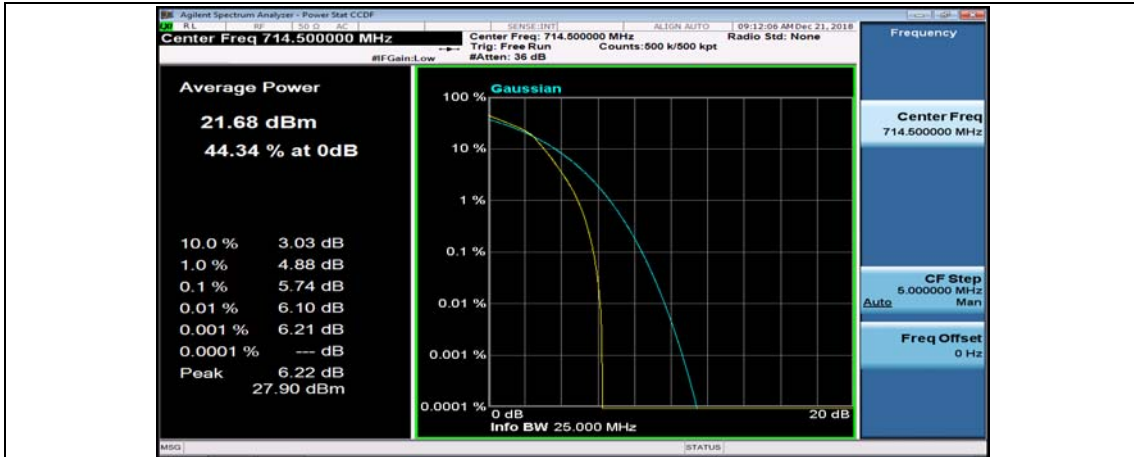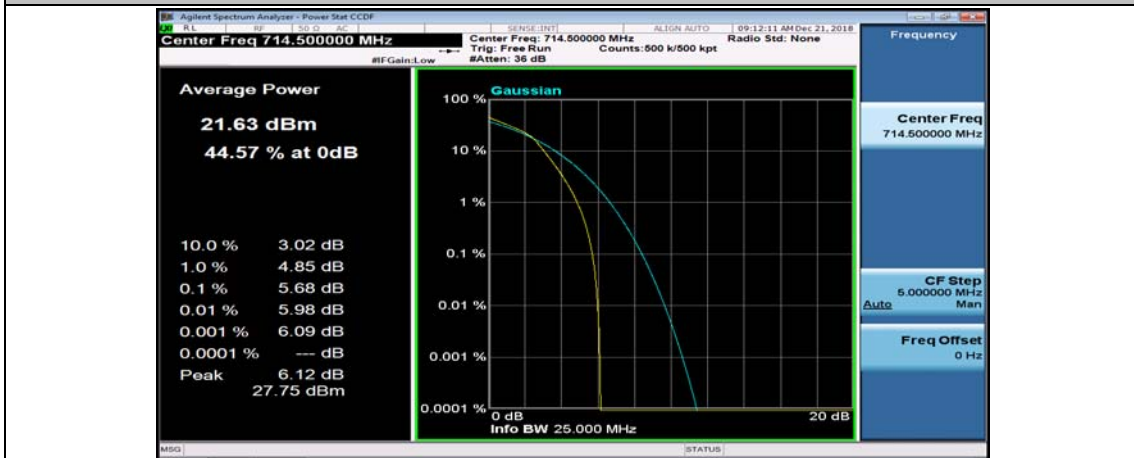| (Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0 |
|---|
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3 |
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5 |
| |
| (Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0 |
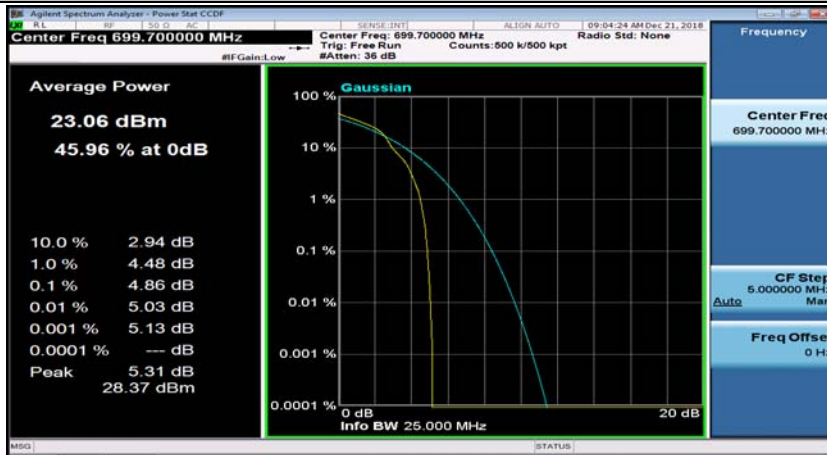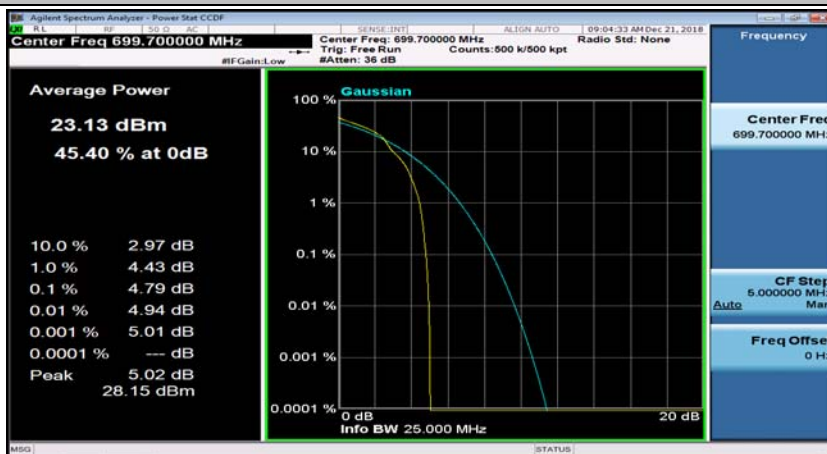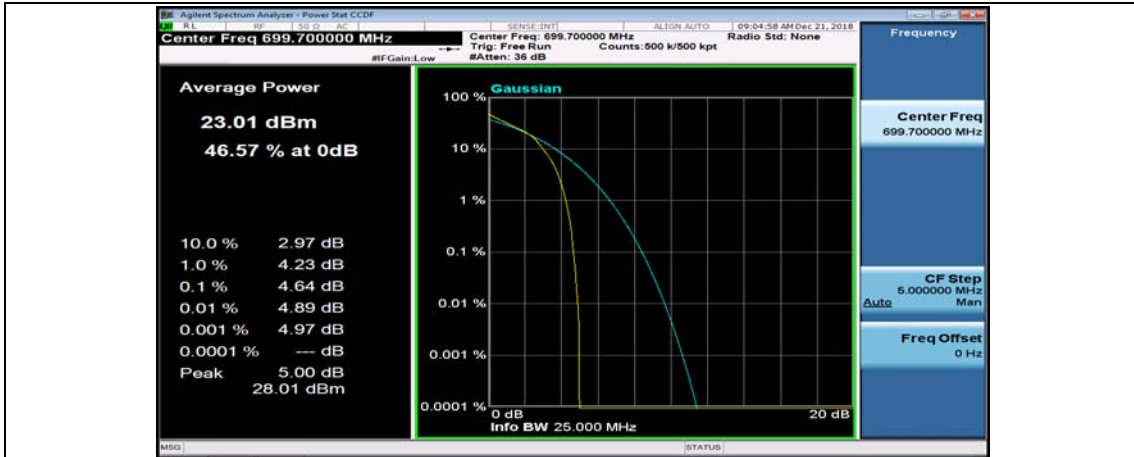
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2
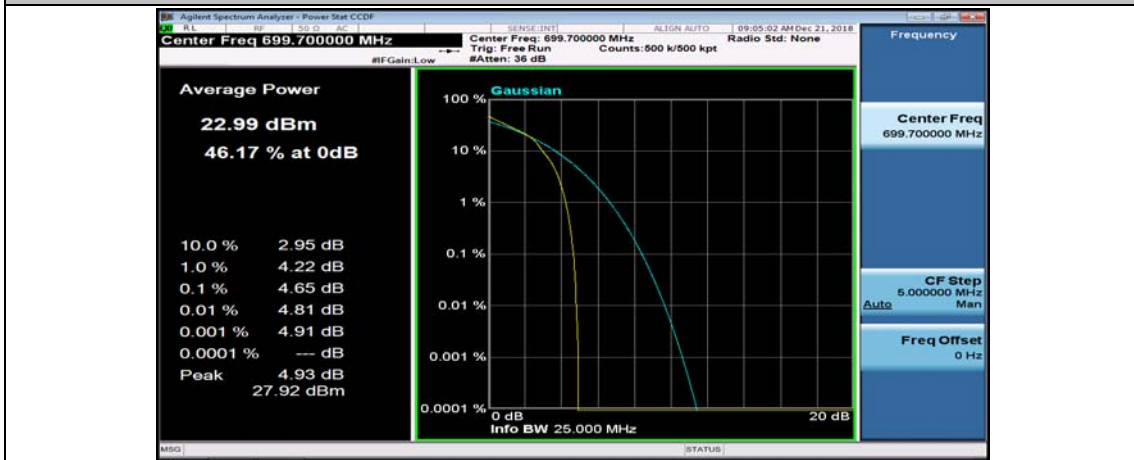
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0
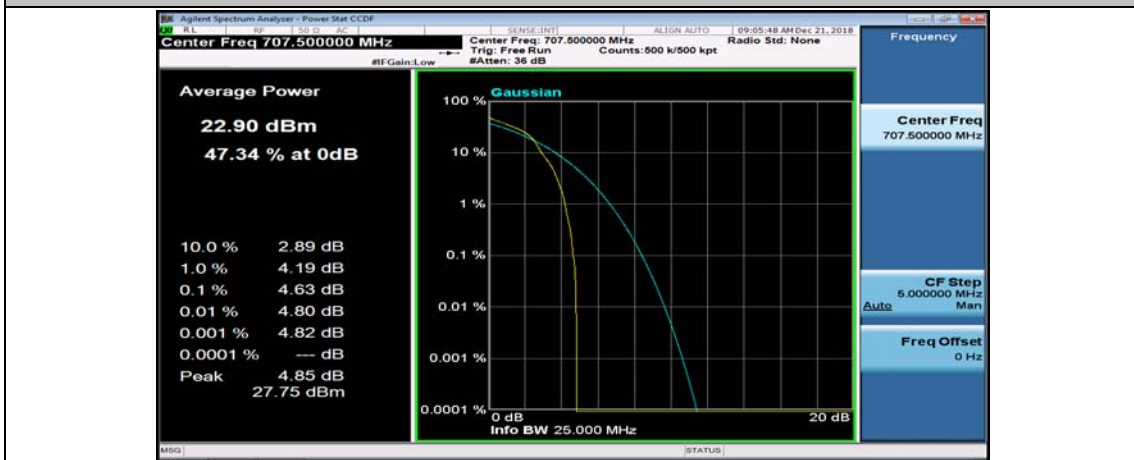
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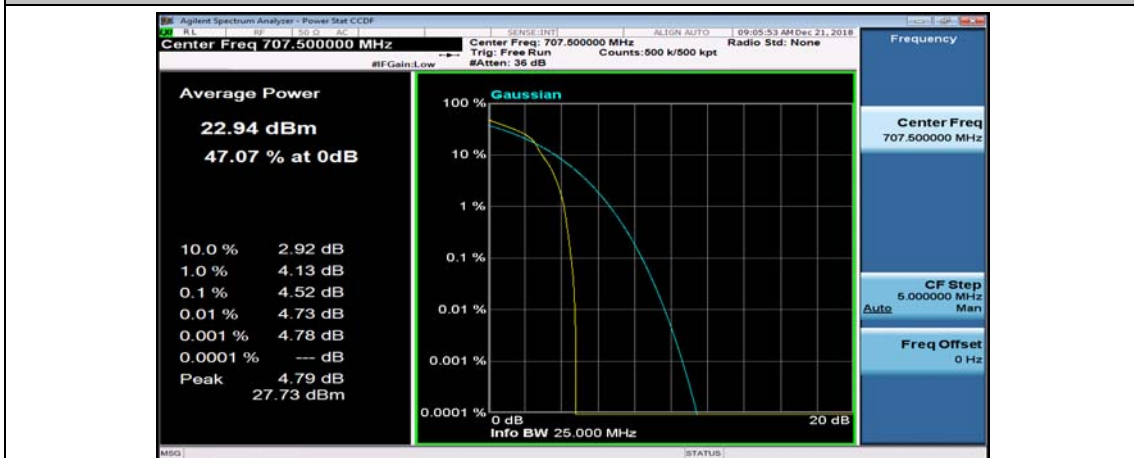
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5
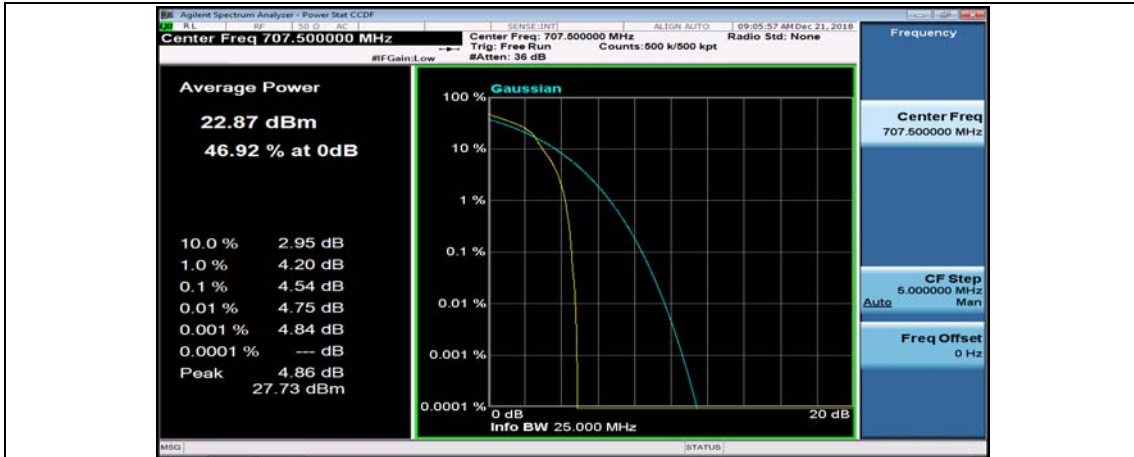
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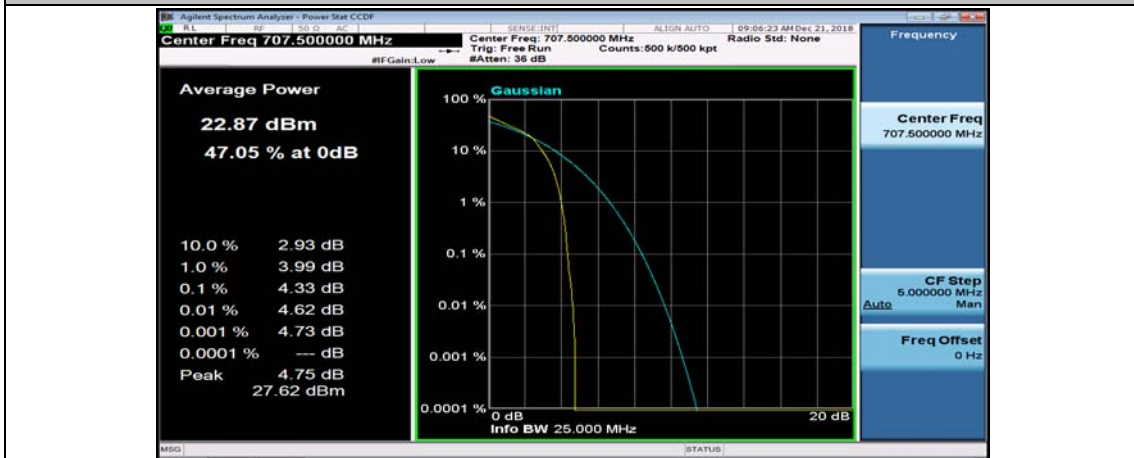
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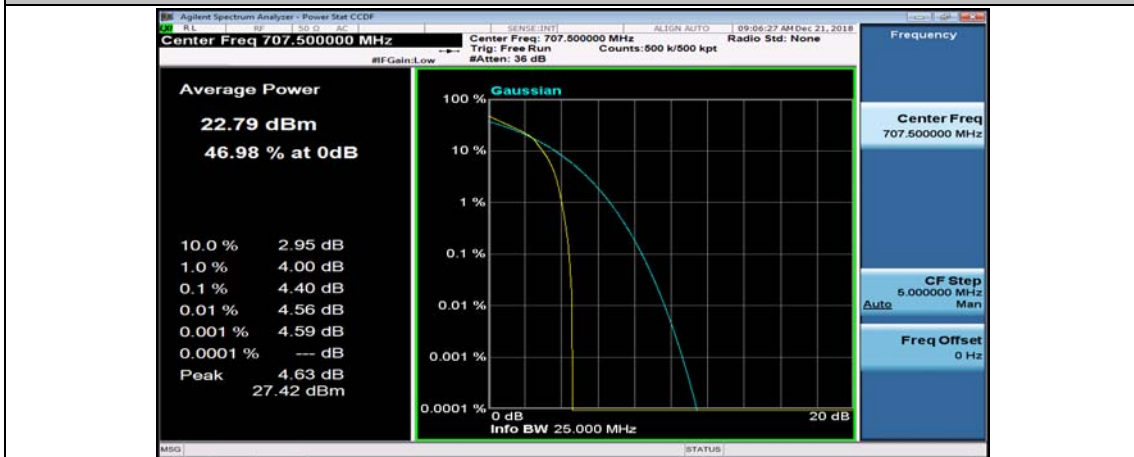
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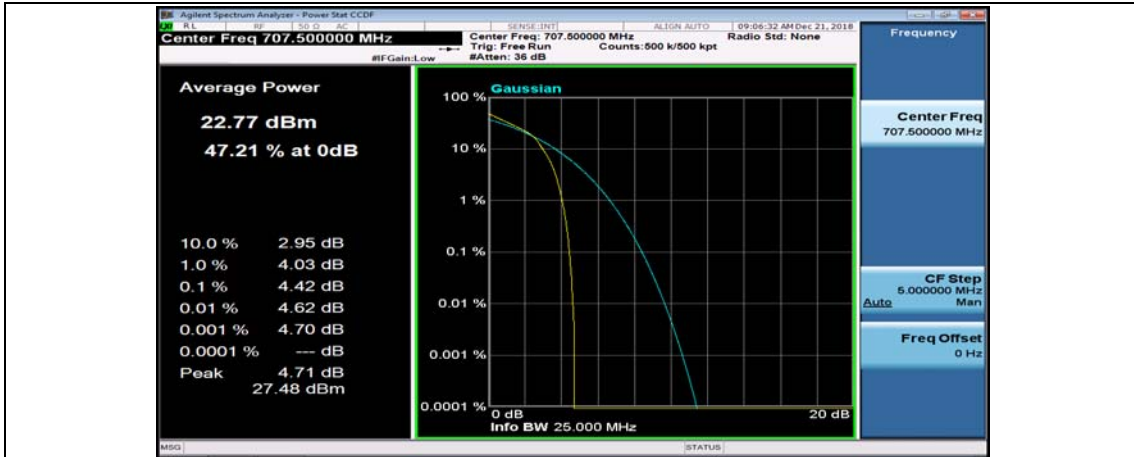
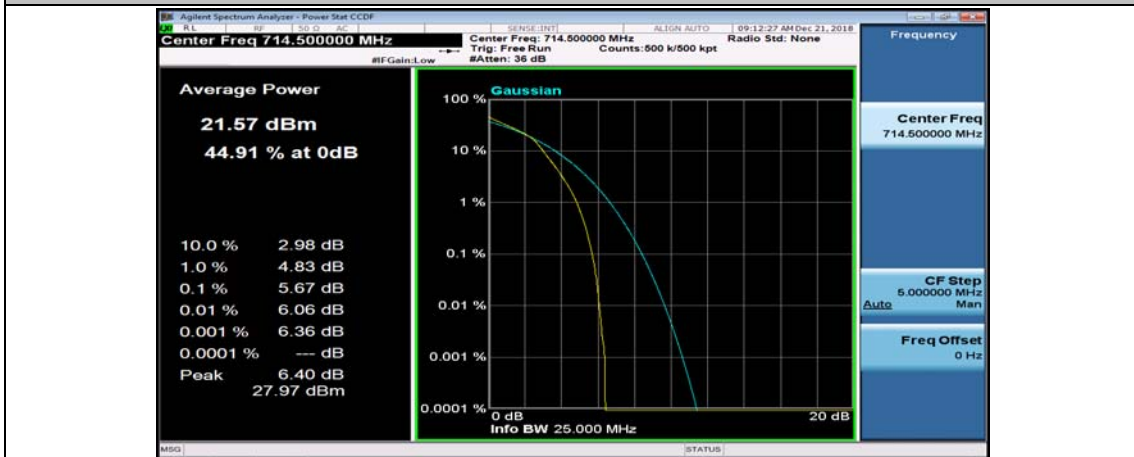(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0
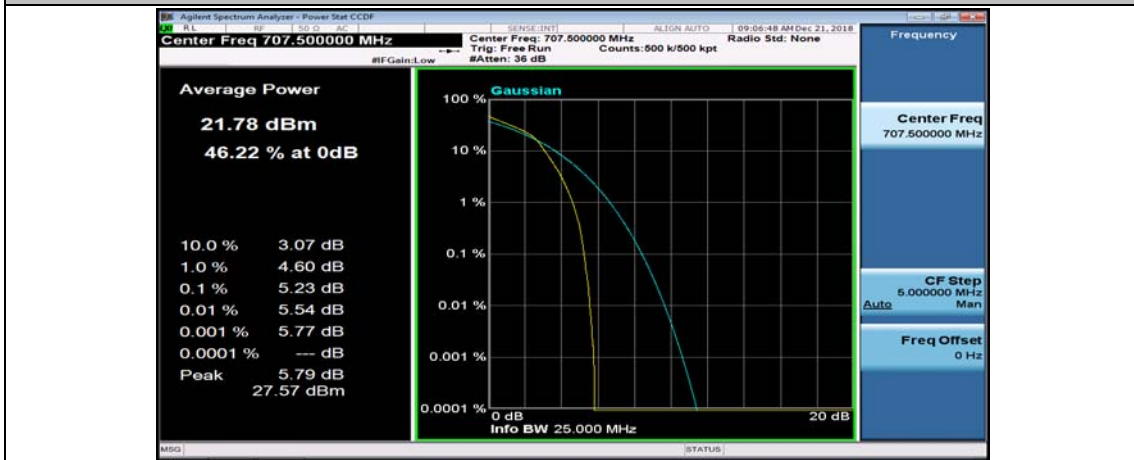
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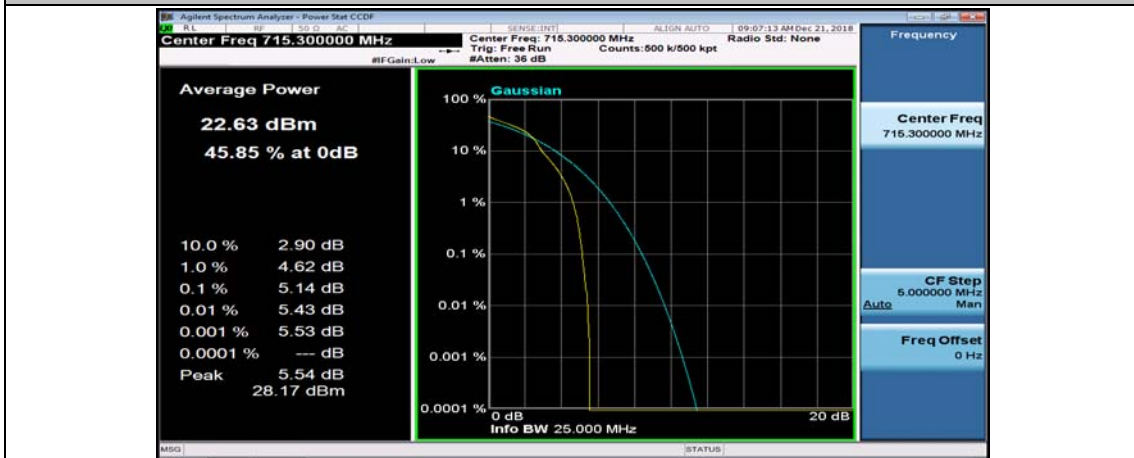
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(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5
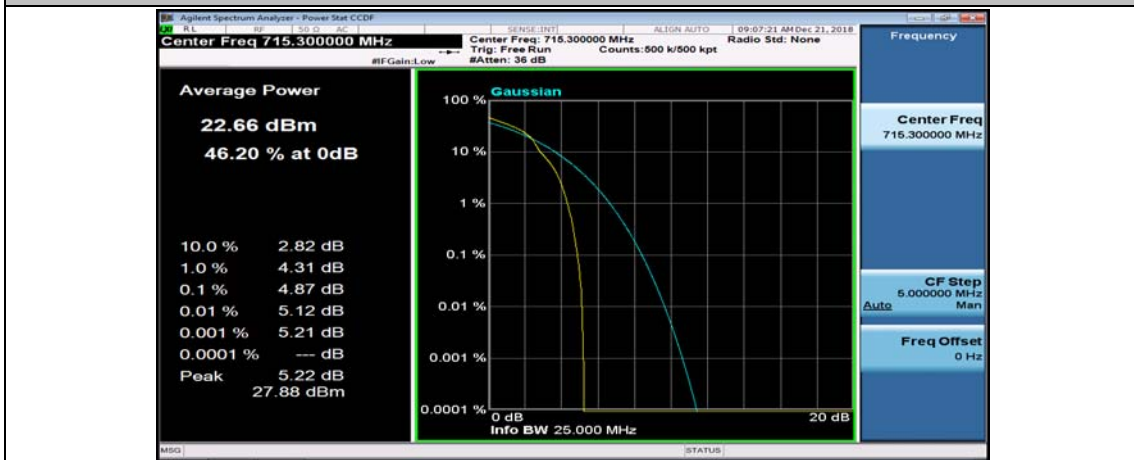
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(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2
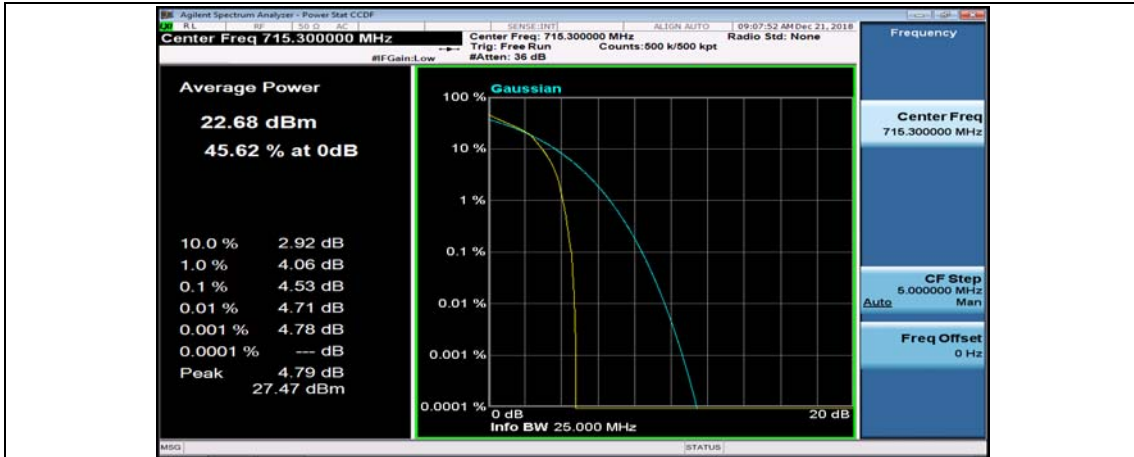
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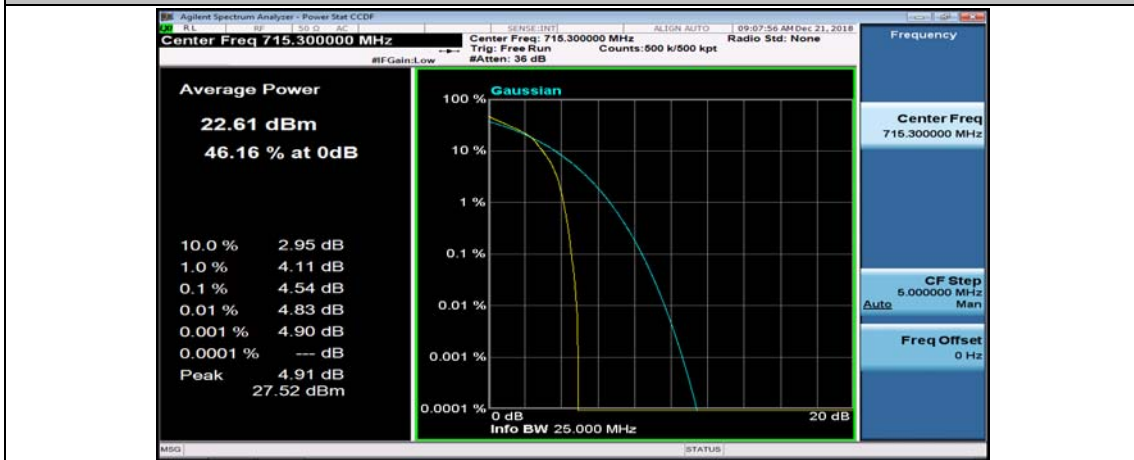
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

Channel Bandwidth: 3 MHz

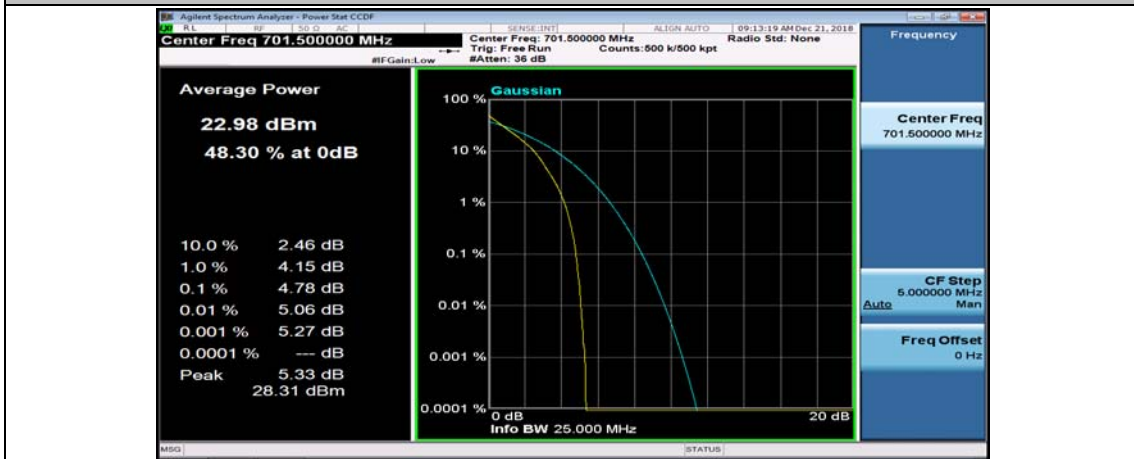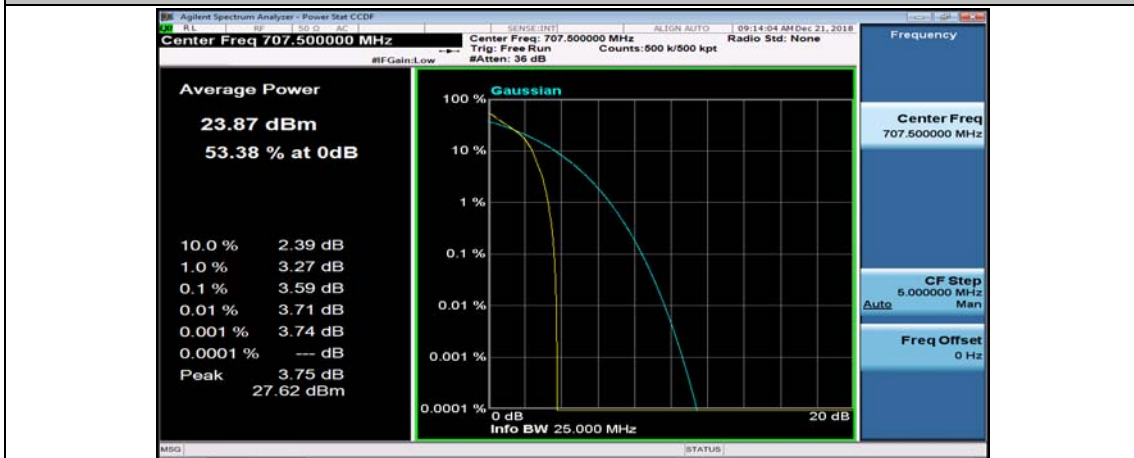| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0 |
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| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7 |
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14 |
| |
| (Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0 |
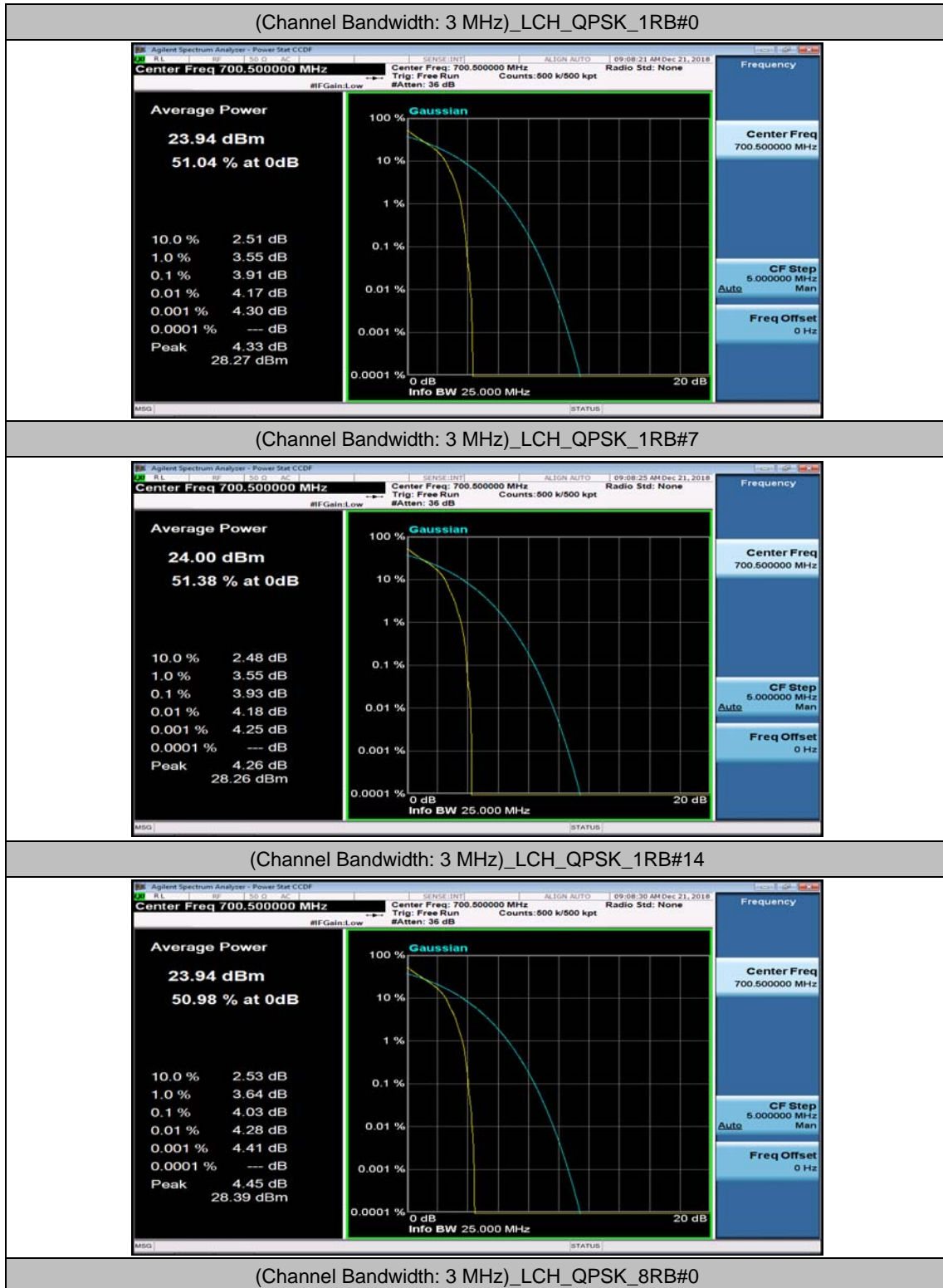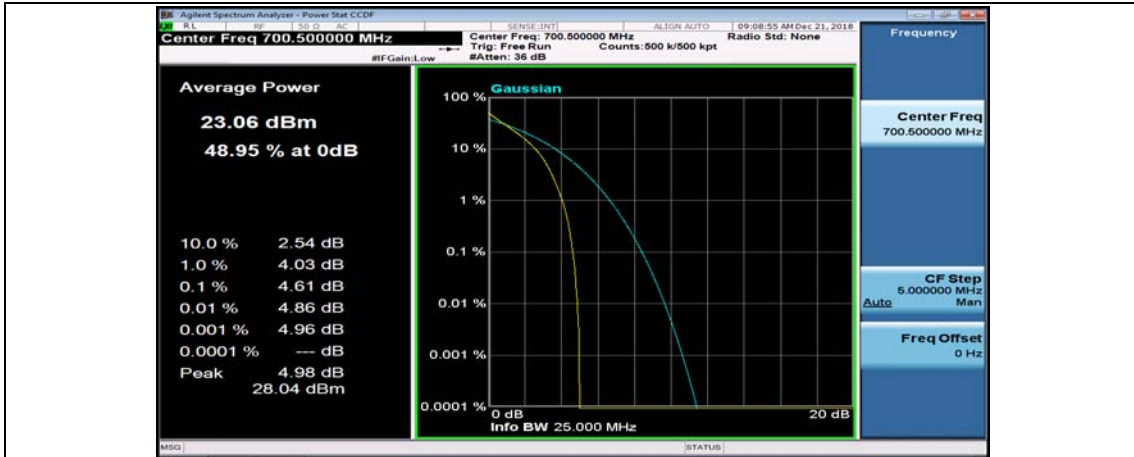
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4
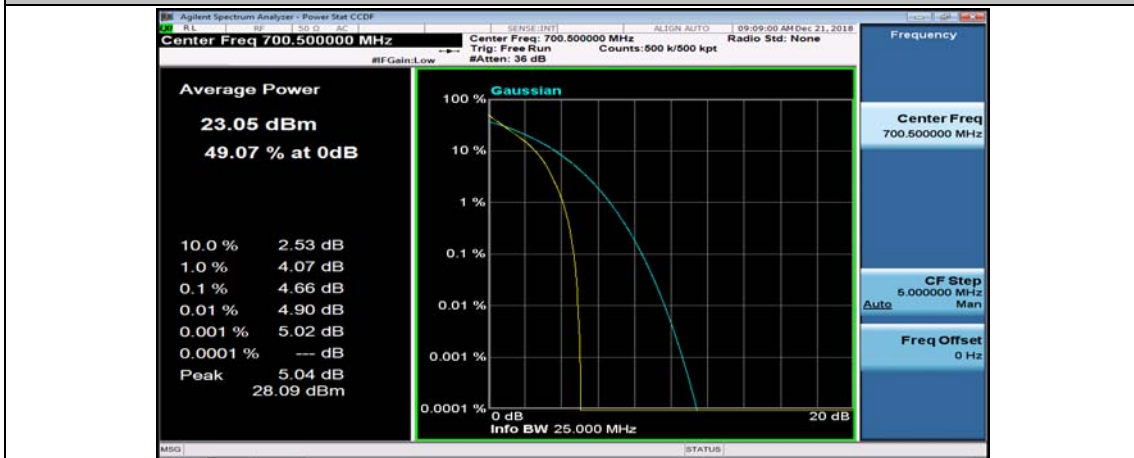
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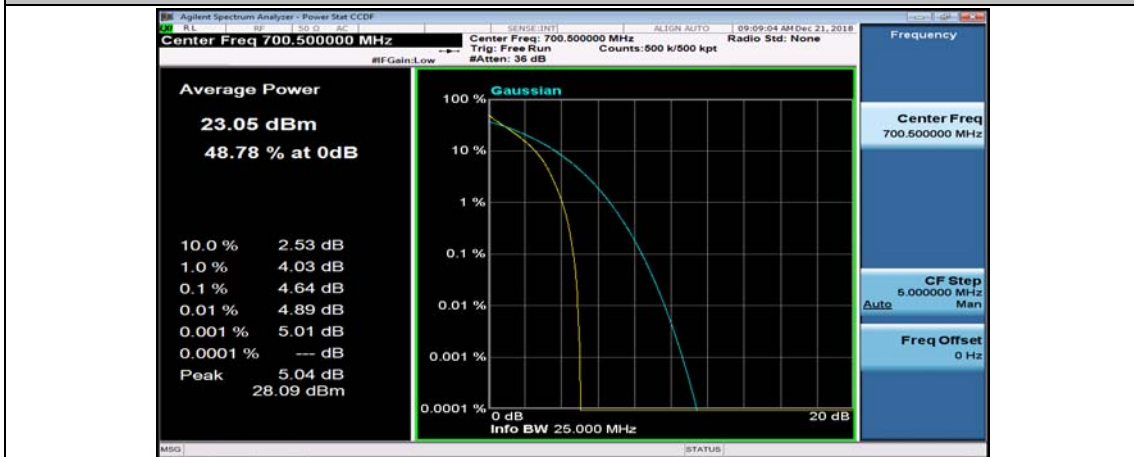
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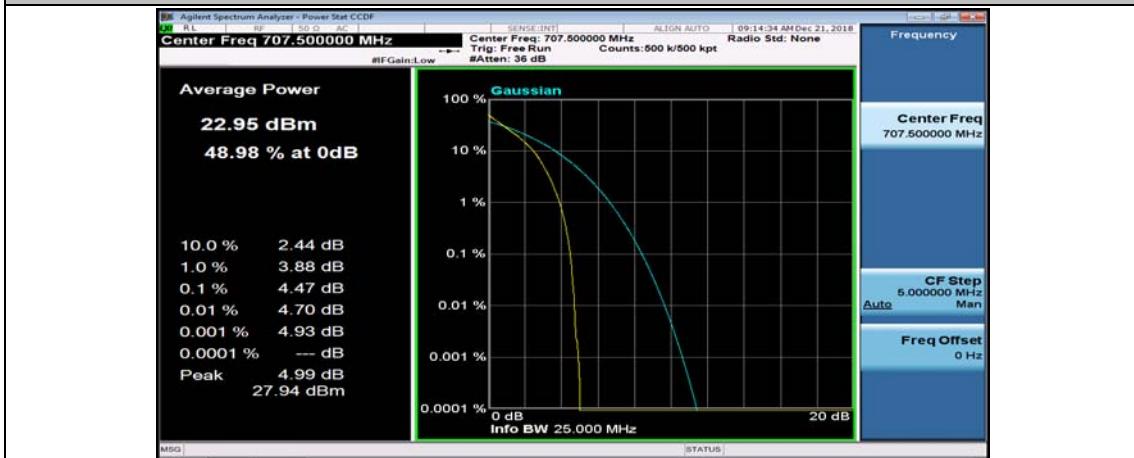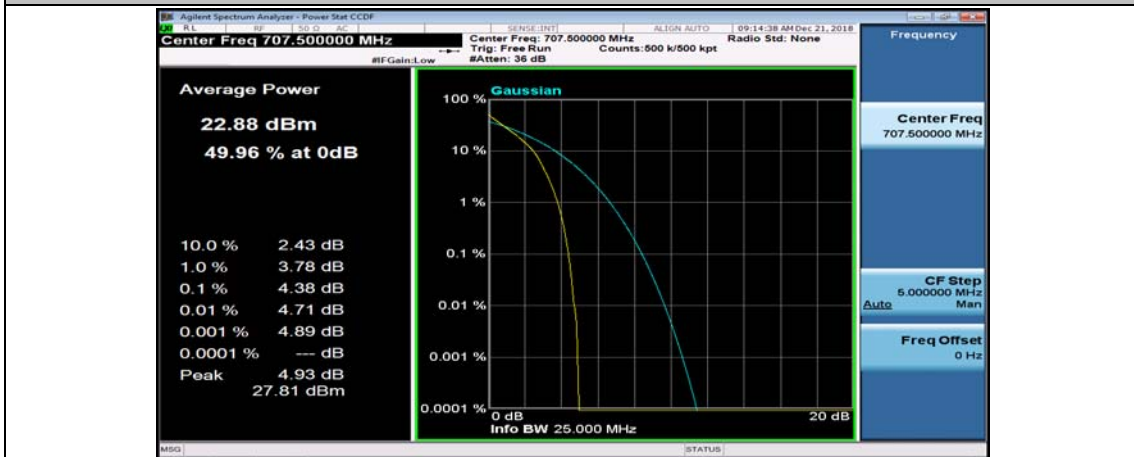
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0
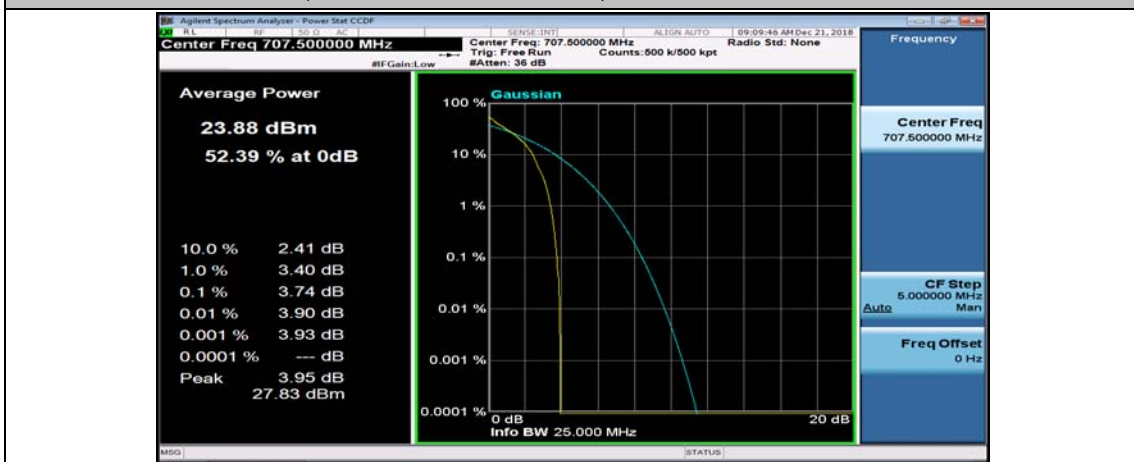
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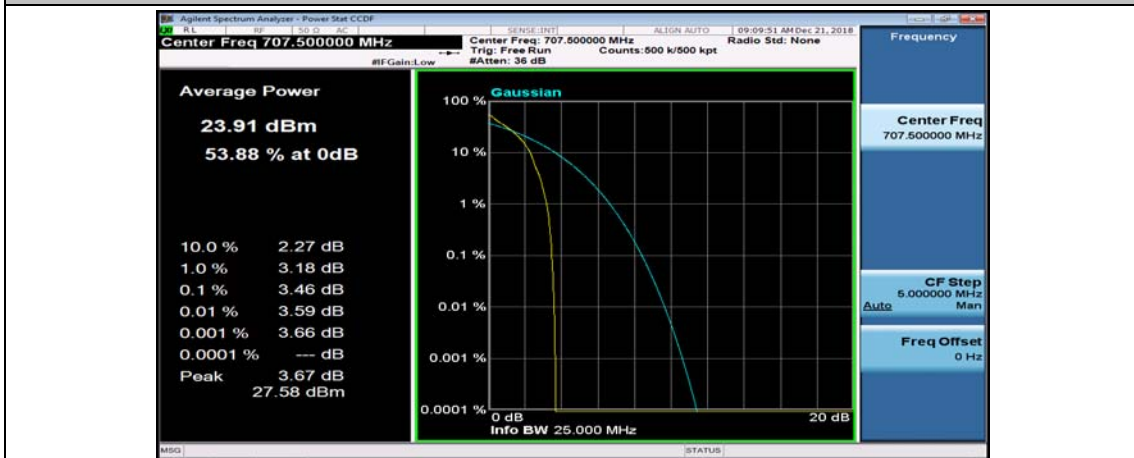
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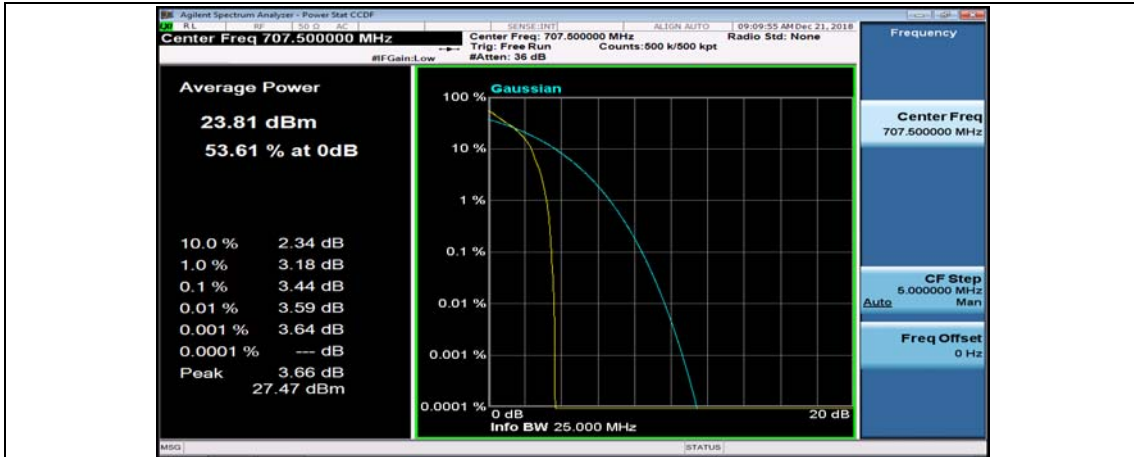
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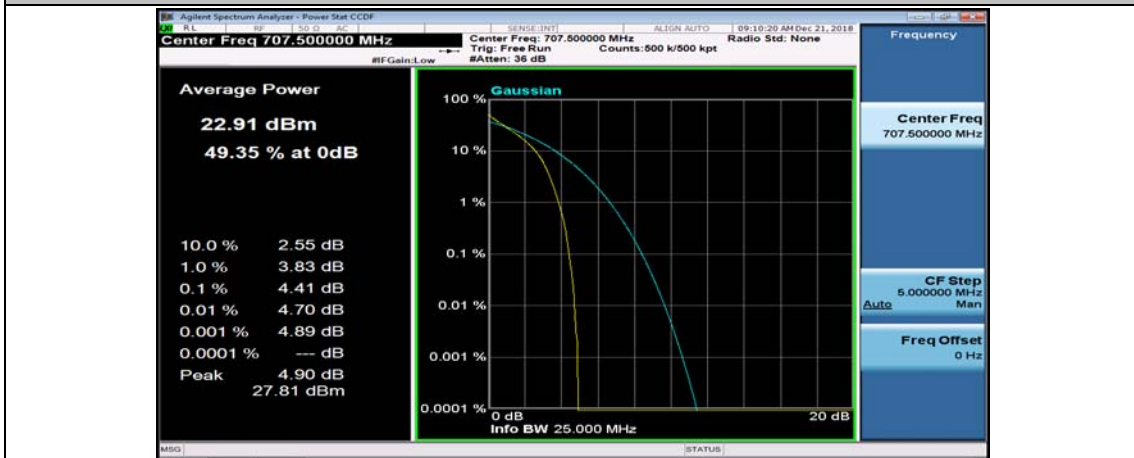
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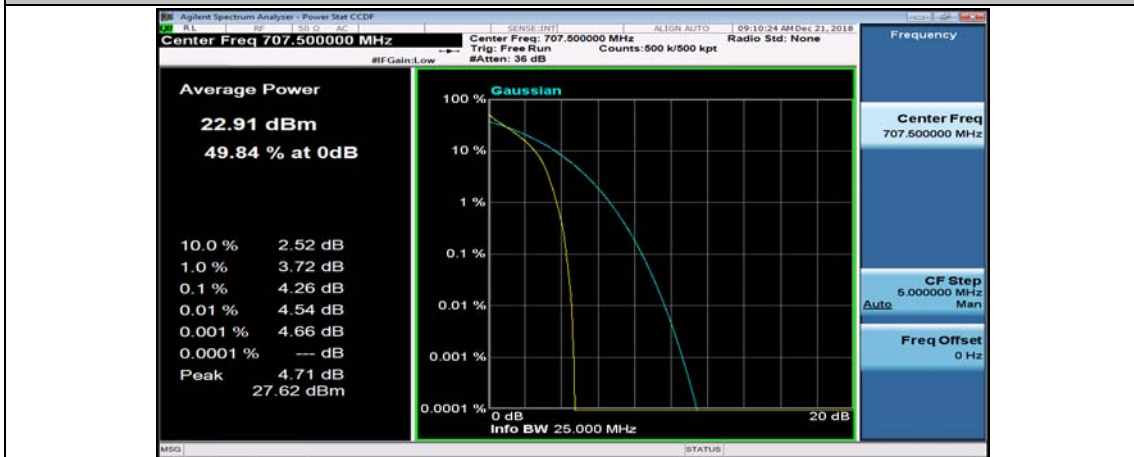
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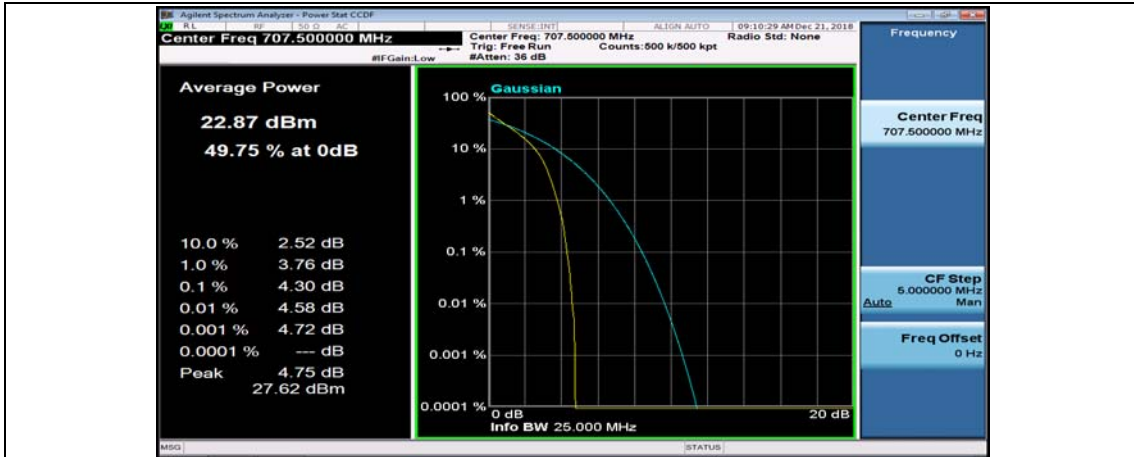
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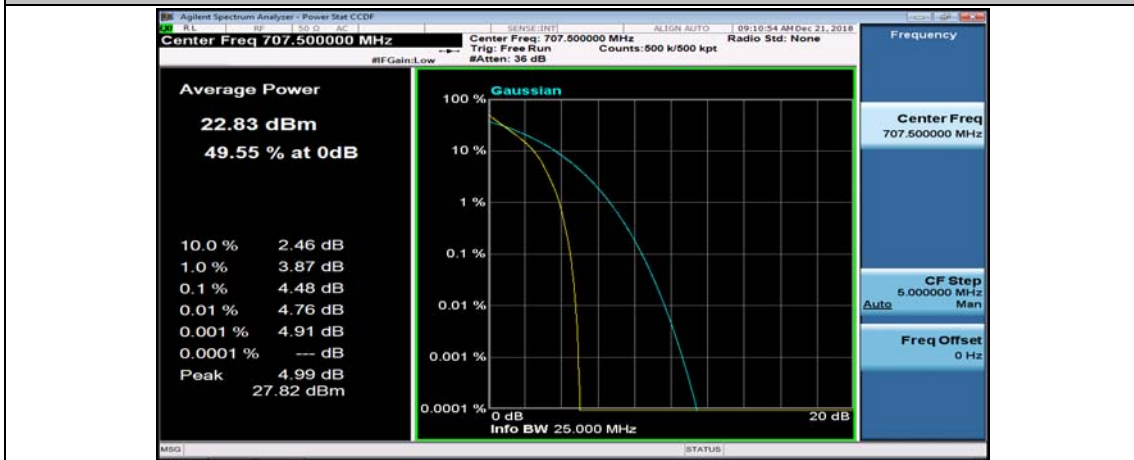
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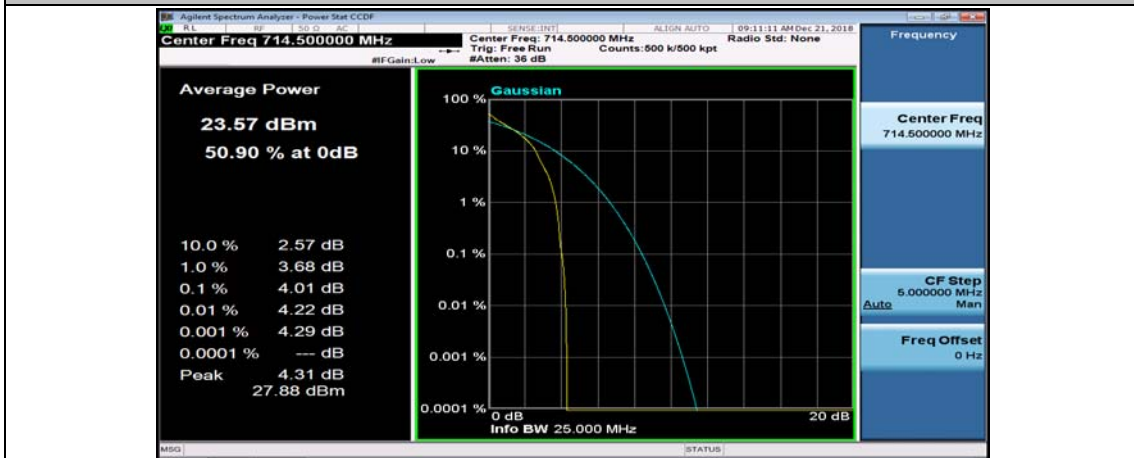
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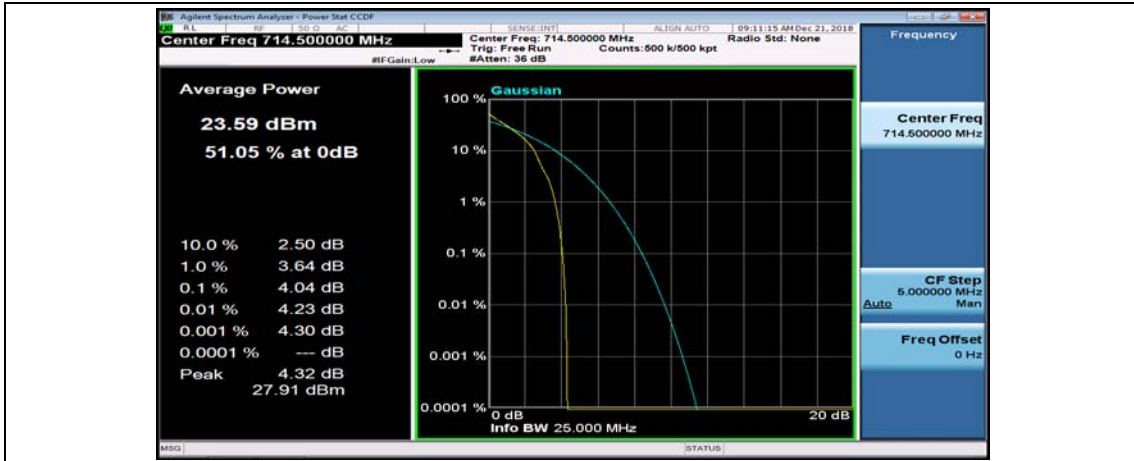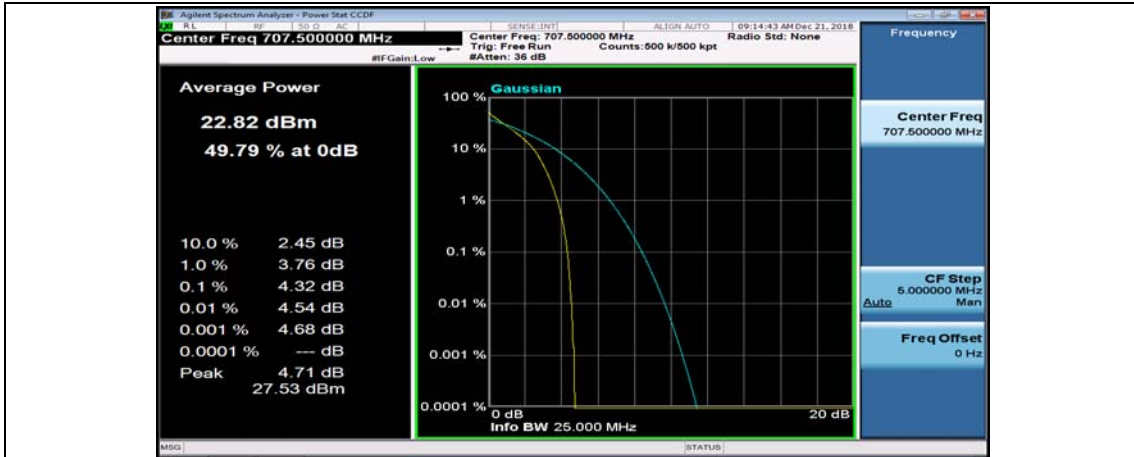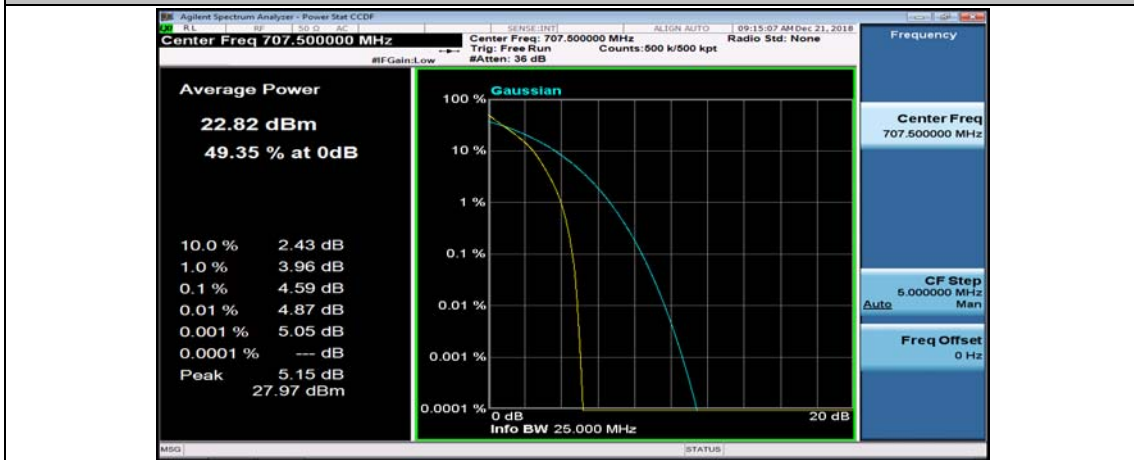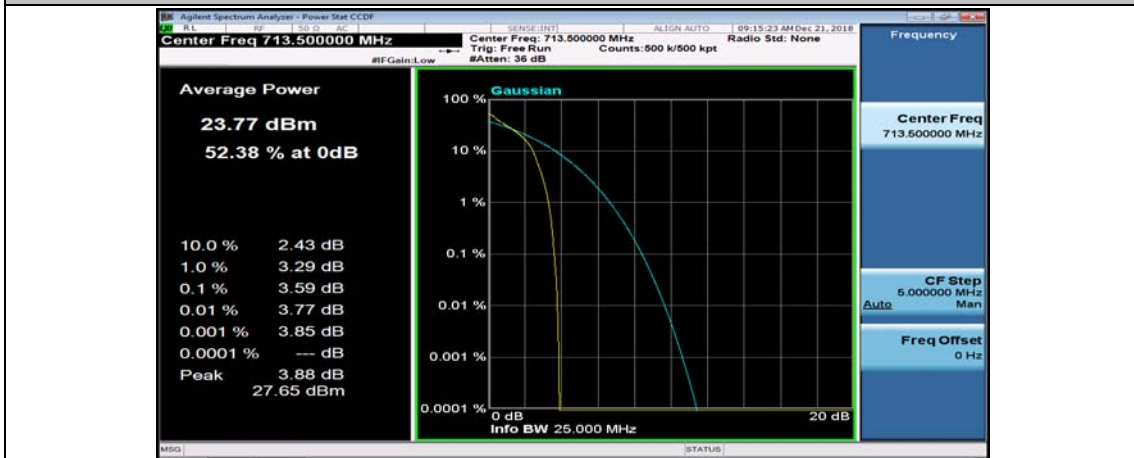
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14
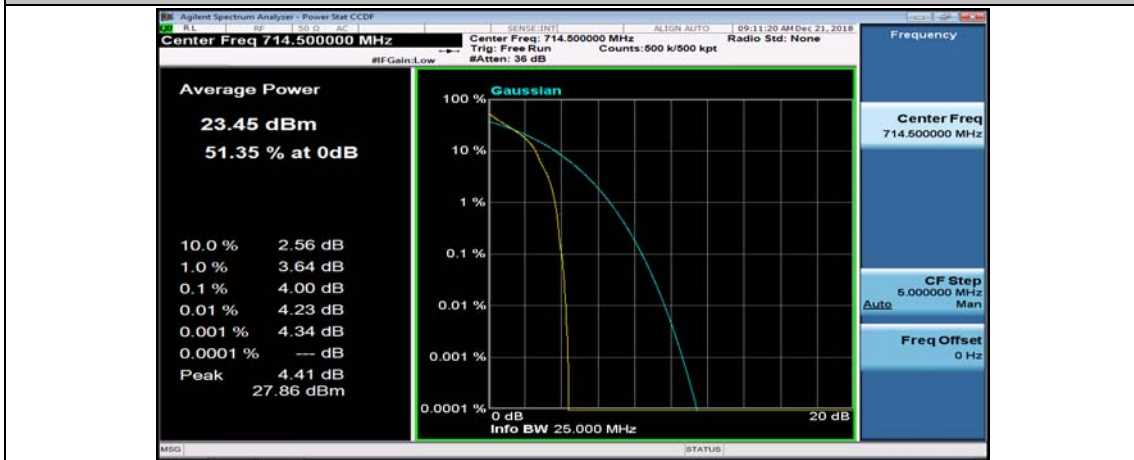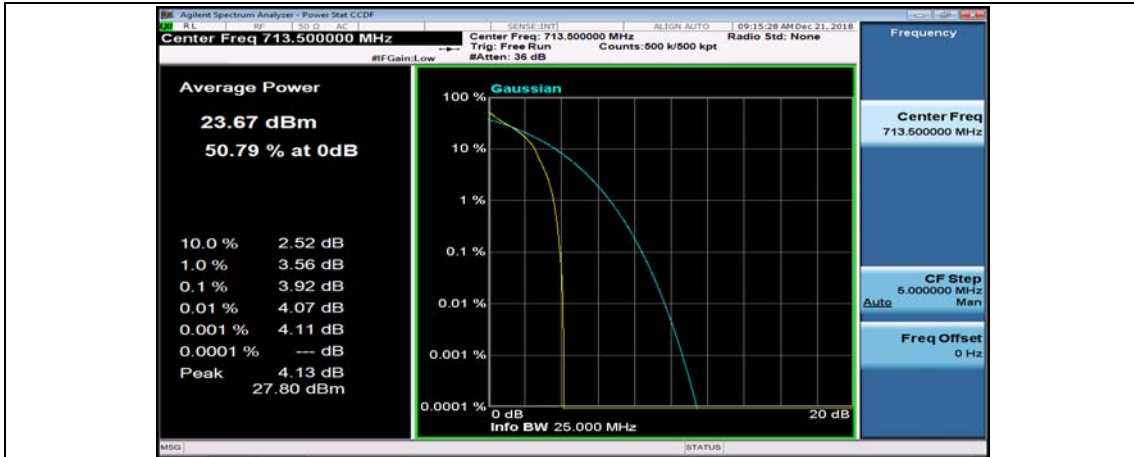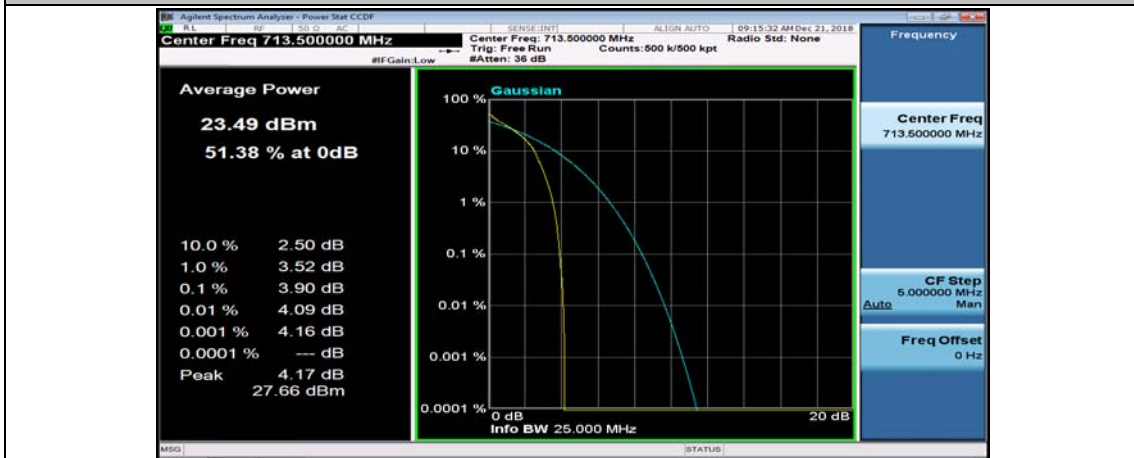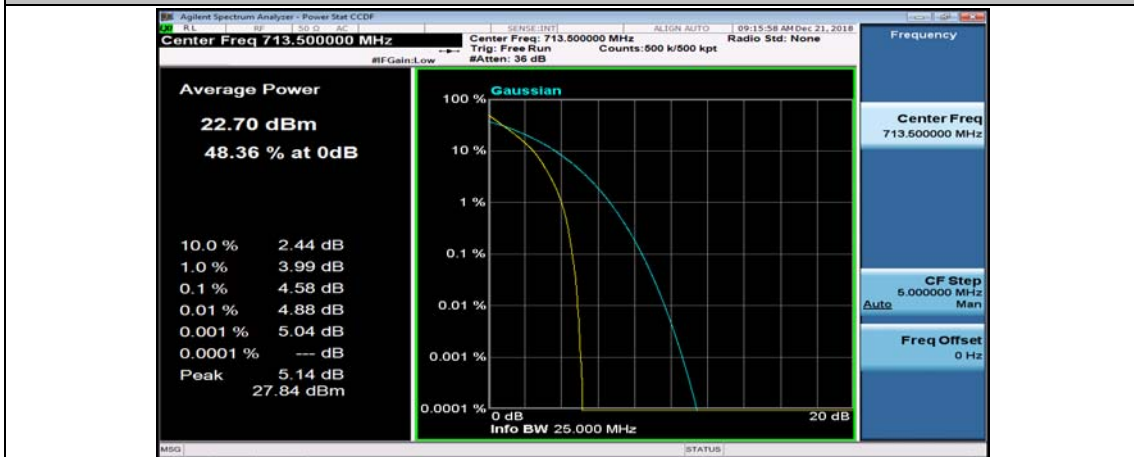

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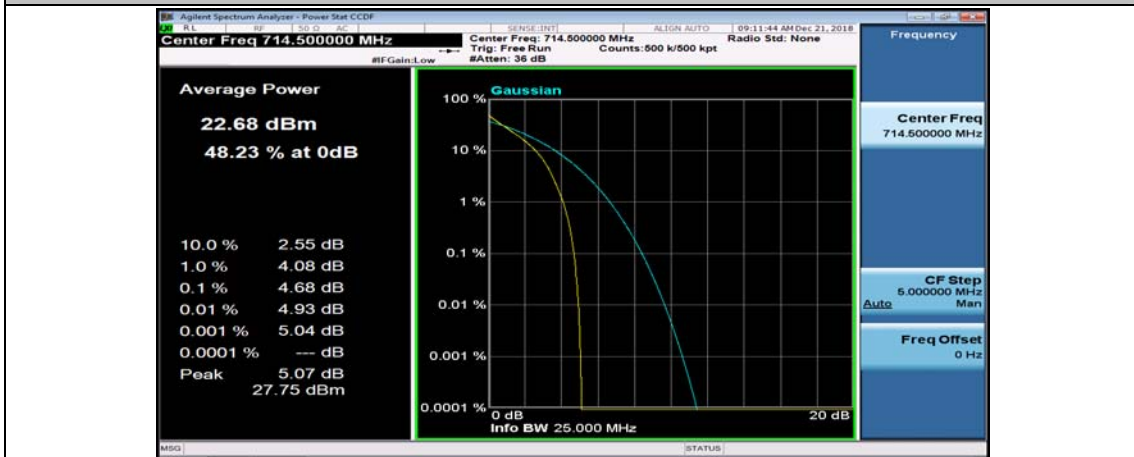
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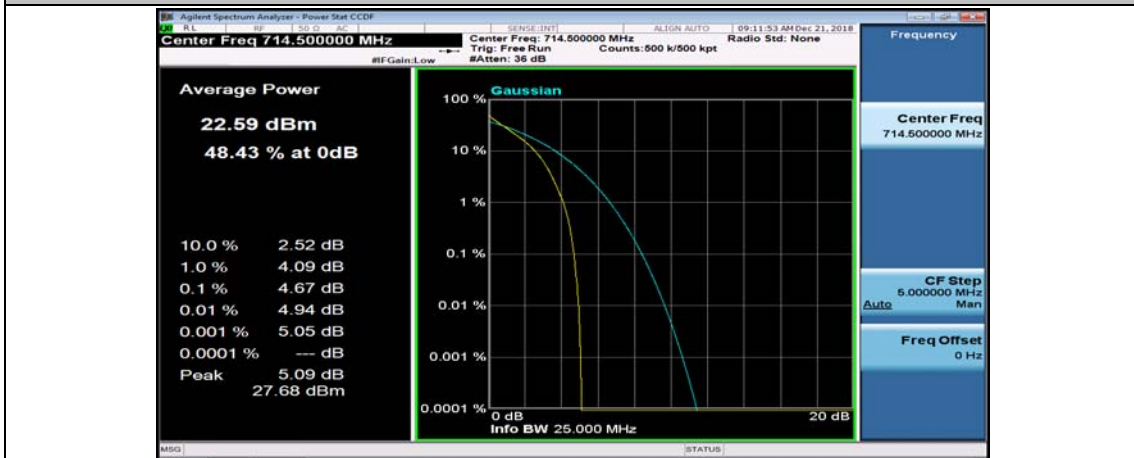
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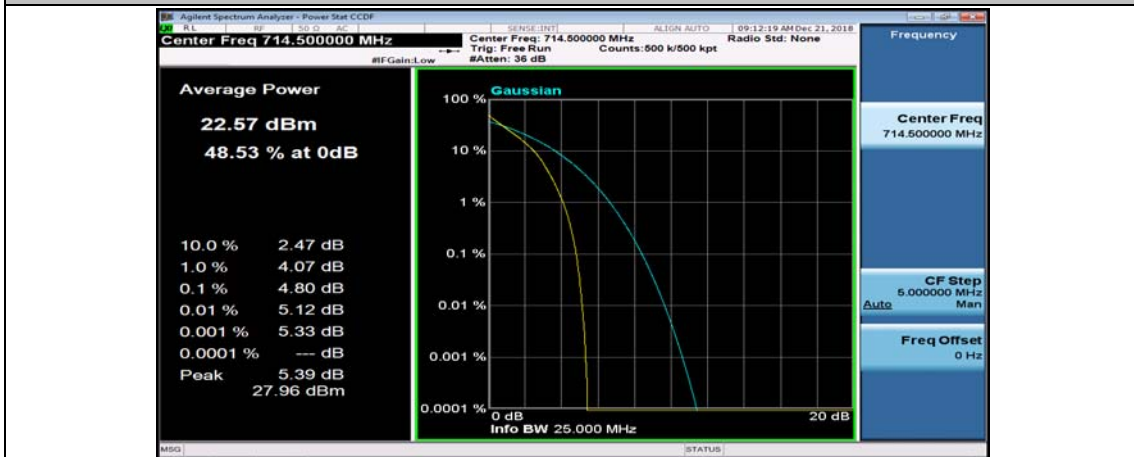
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0
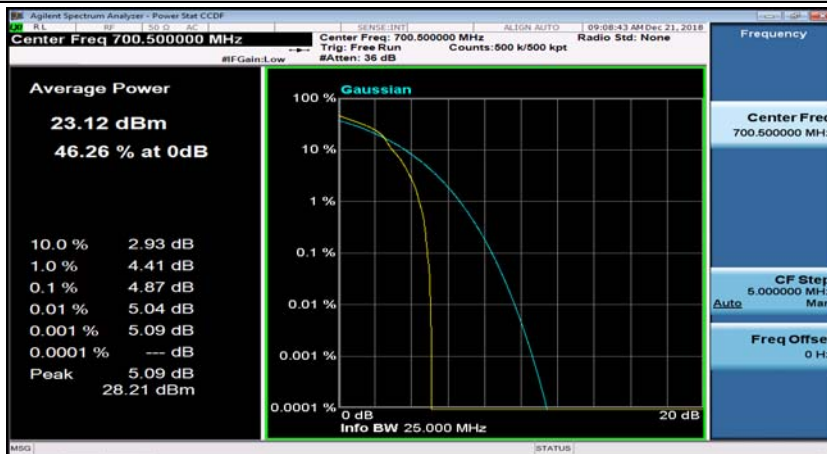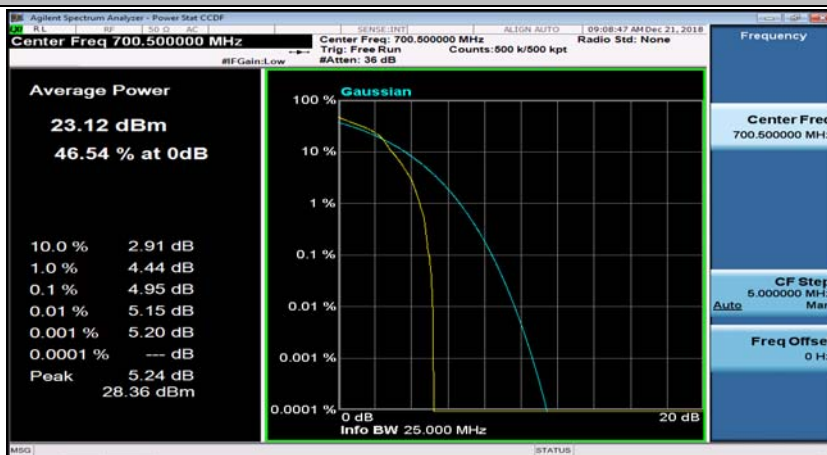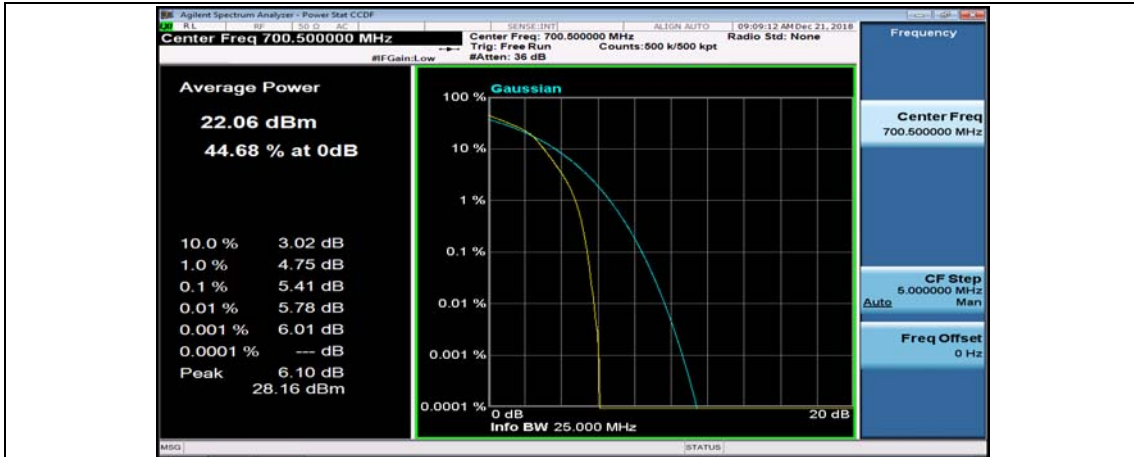
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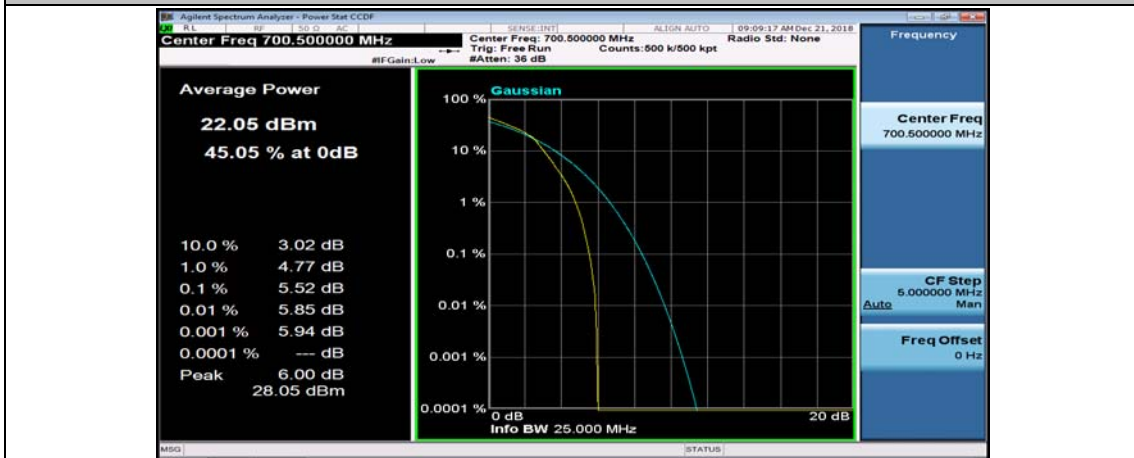
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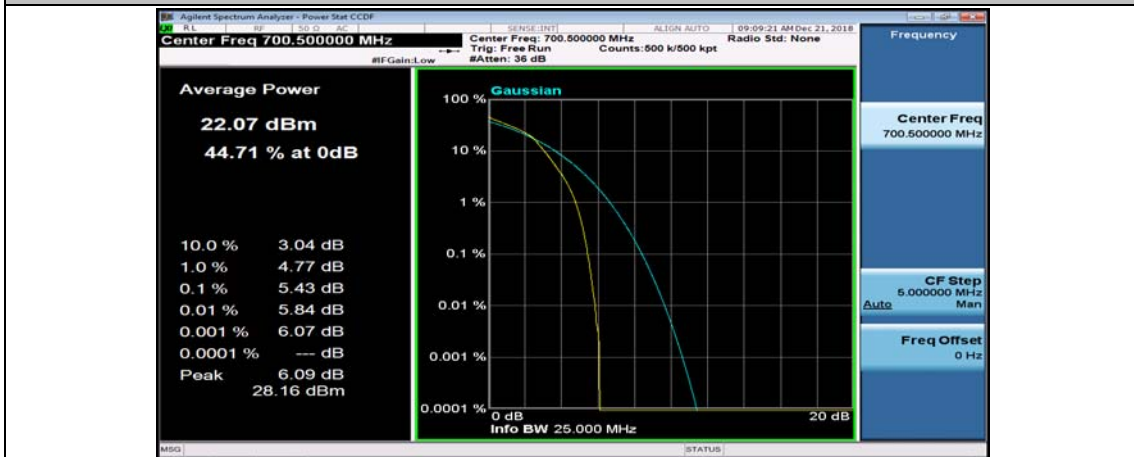
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7

(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14
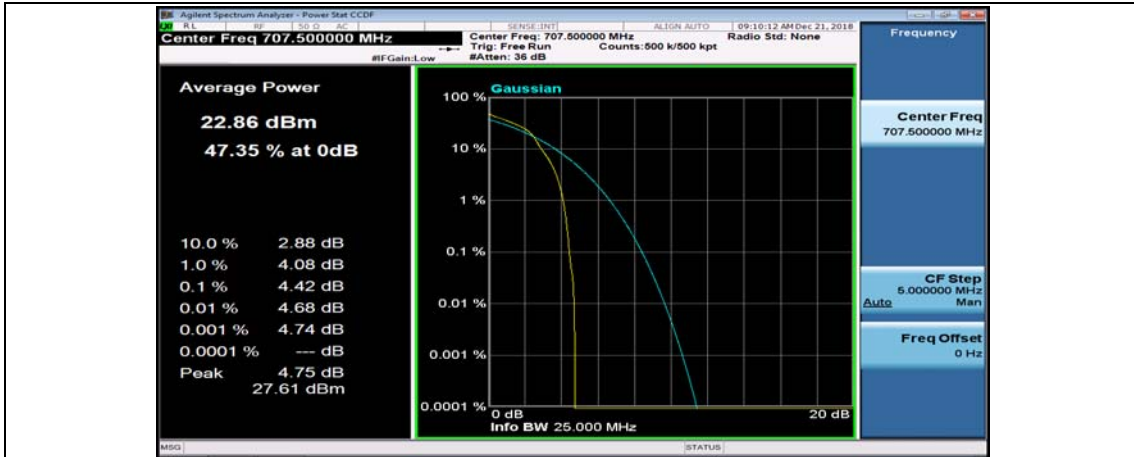
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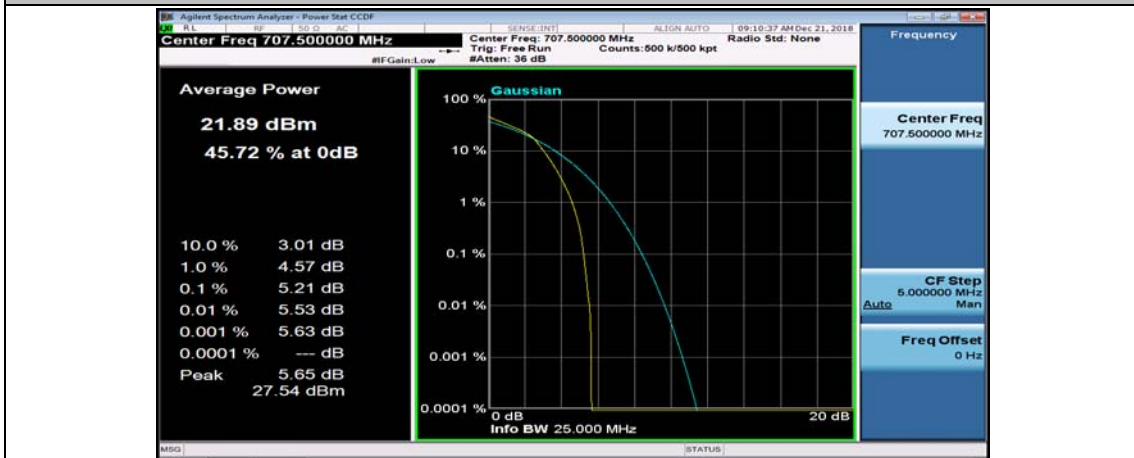
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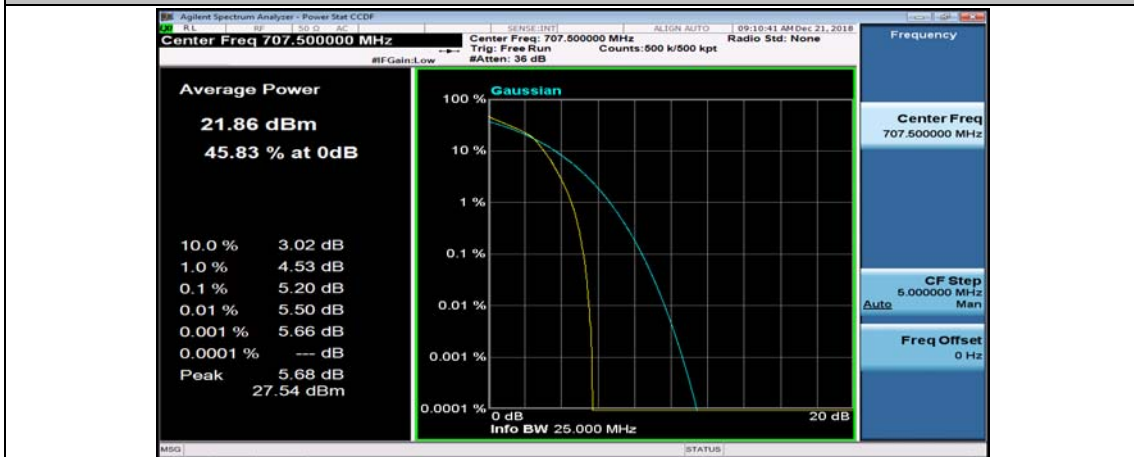
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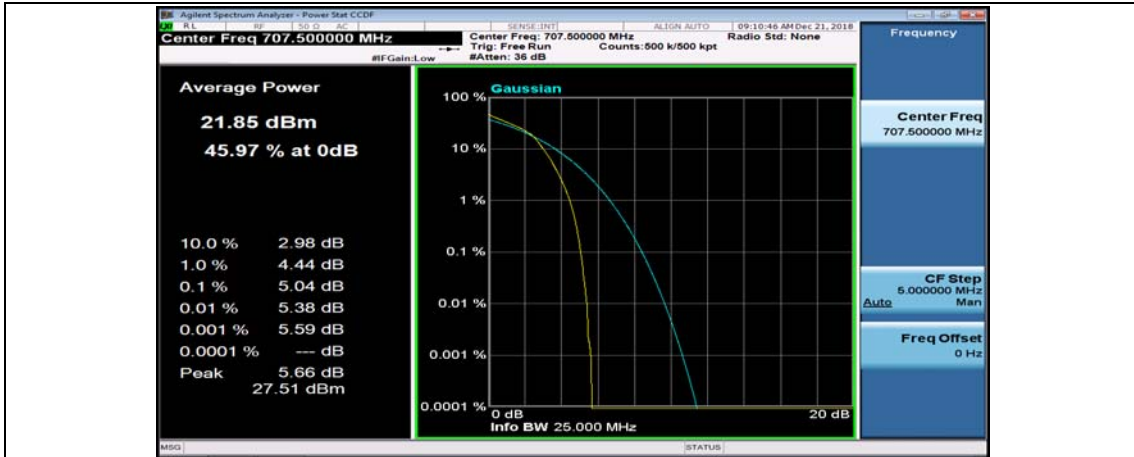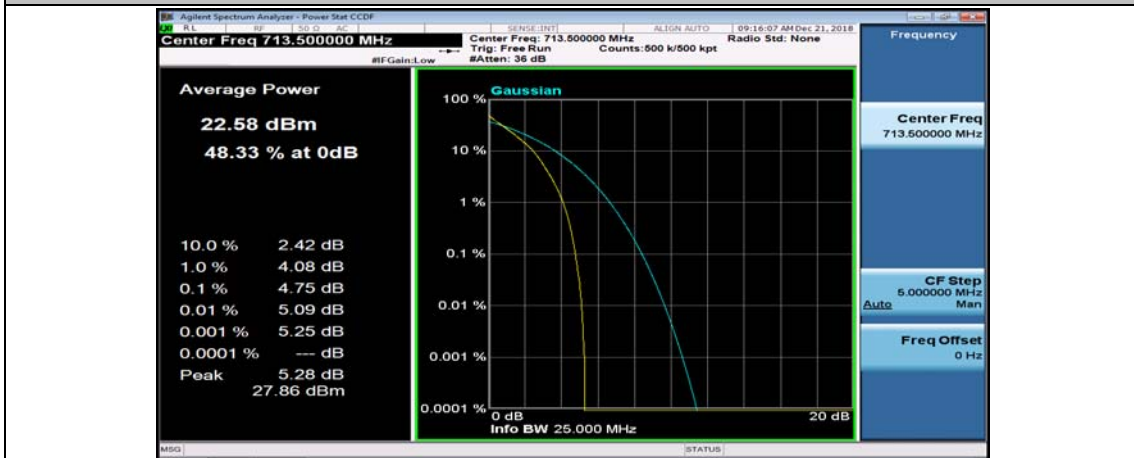
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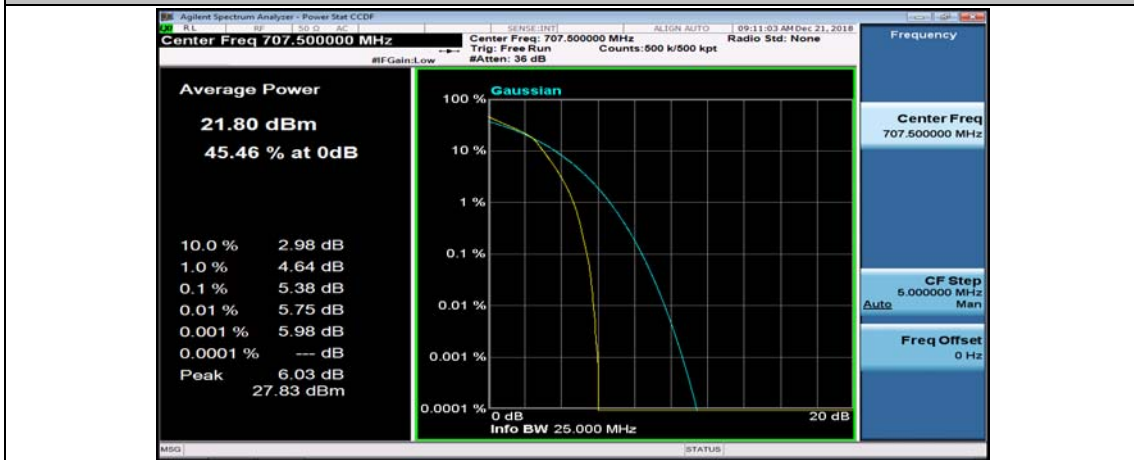
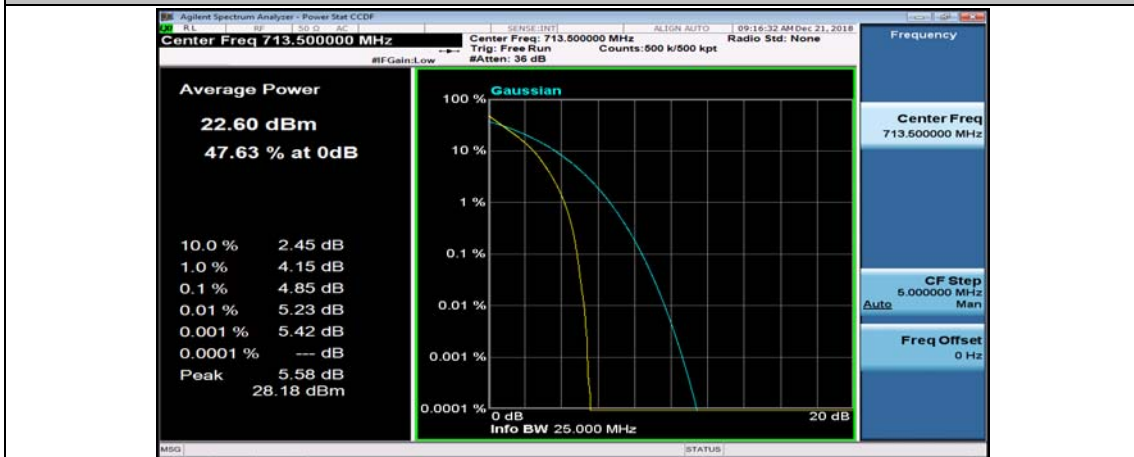(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0
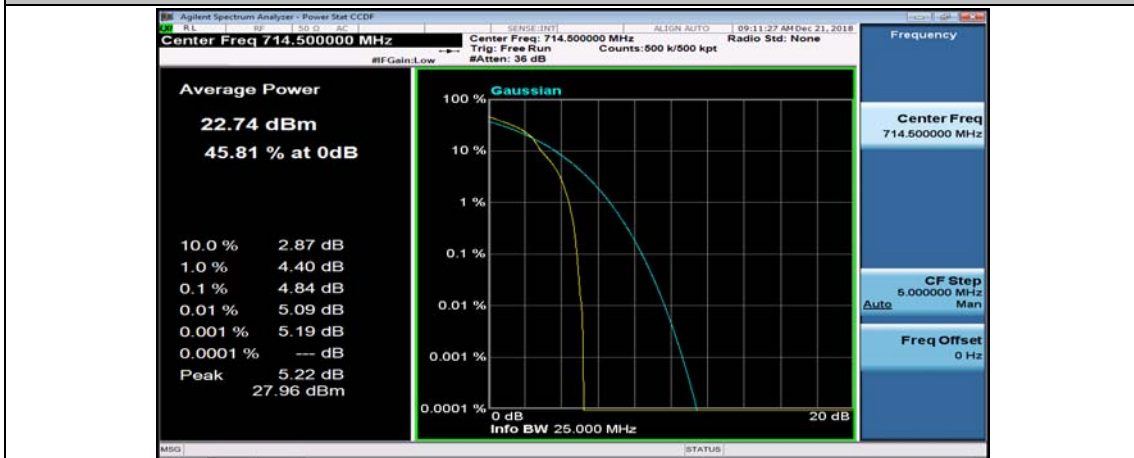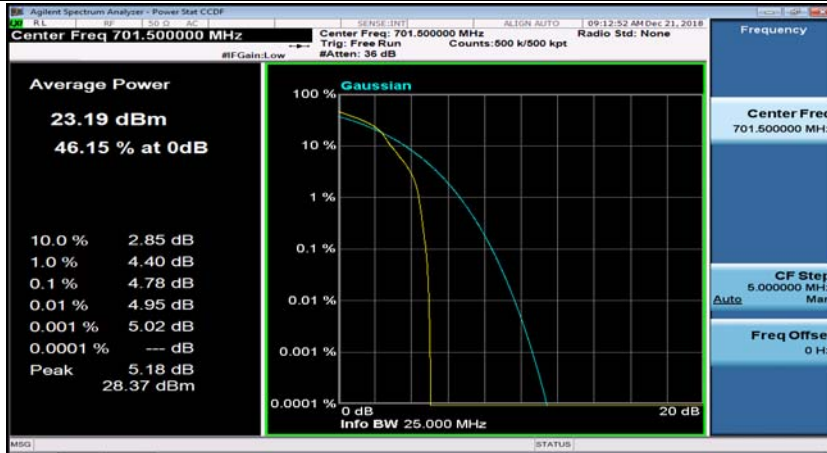

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7

(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0
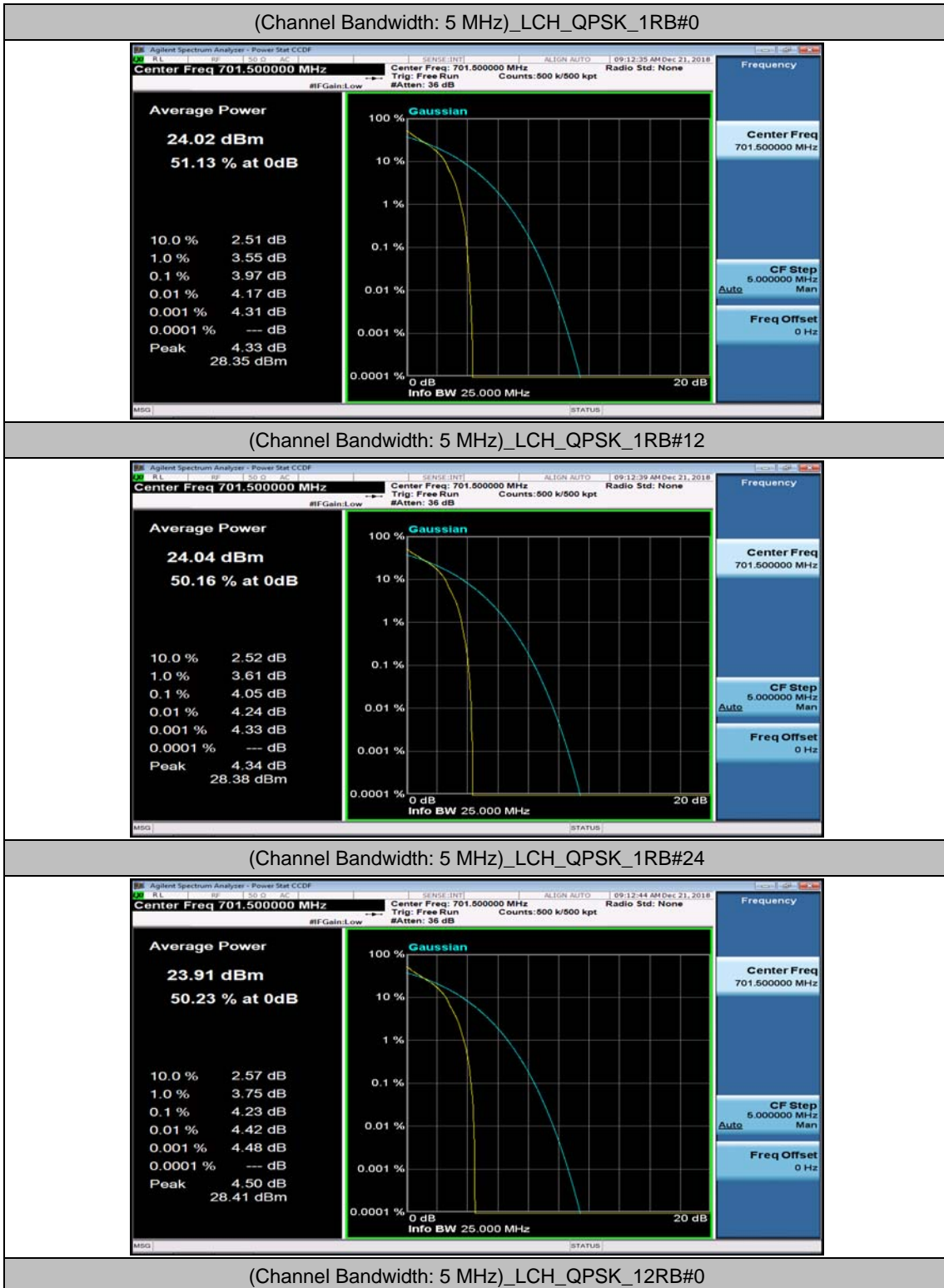
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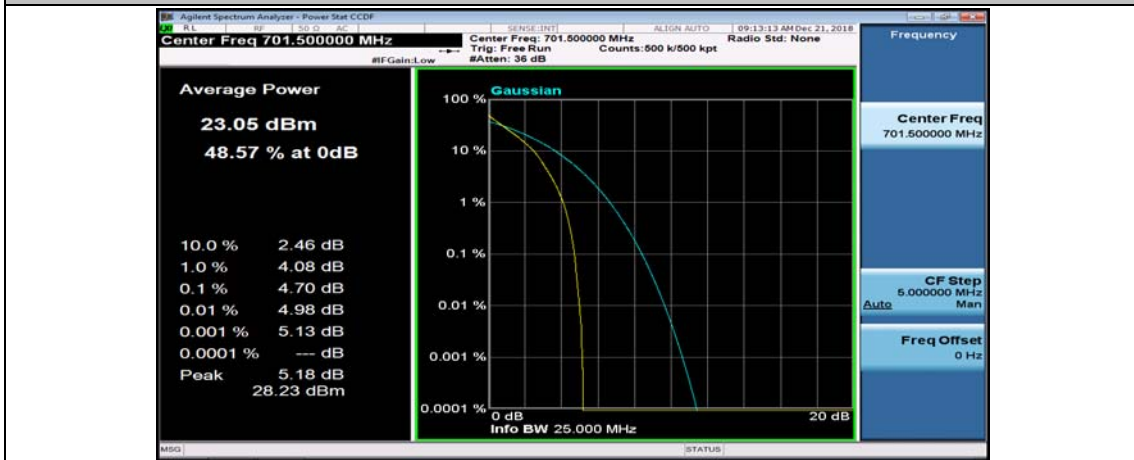
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

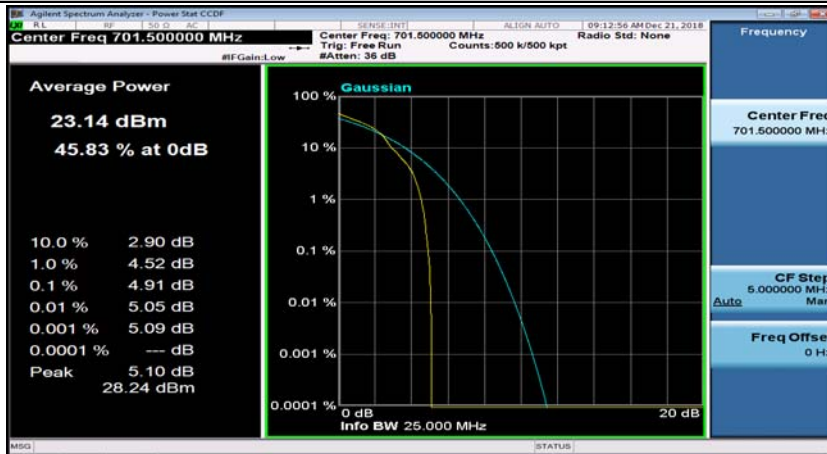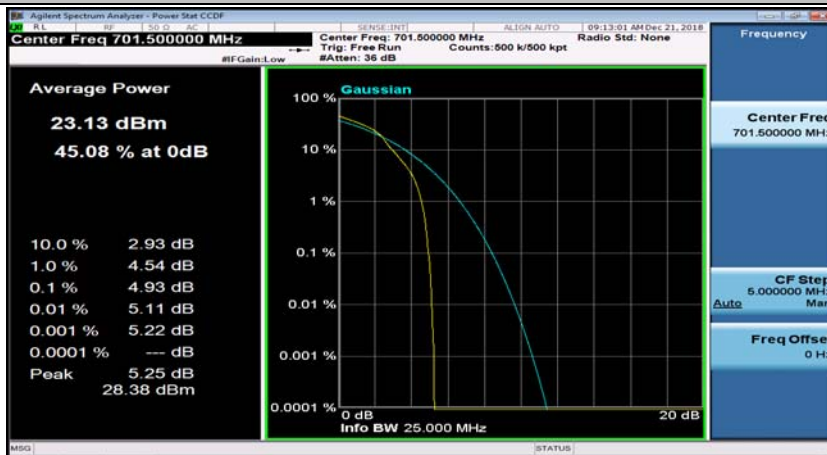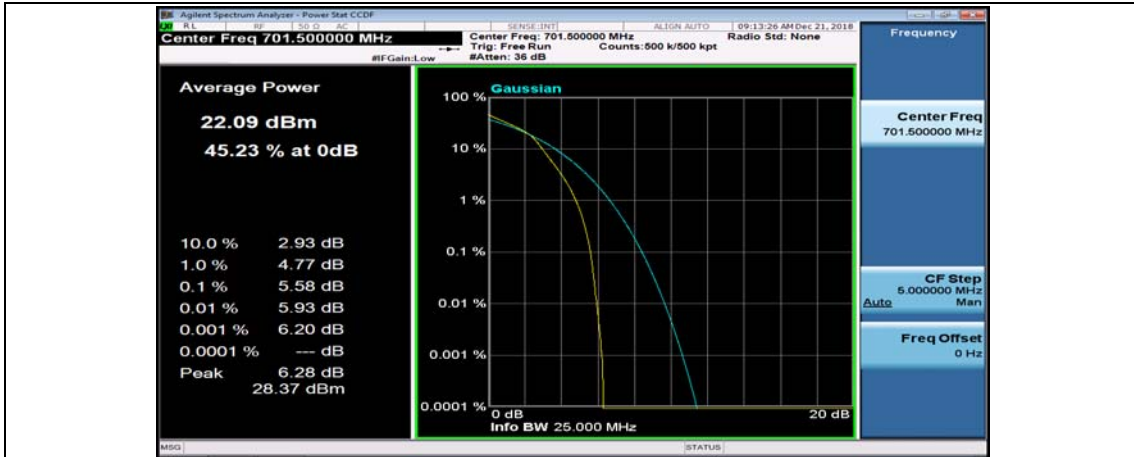(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

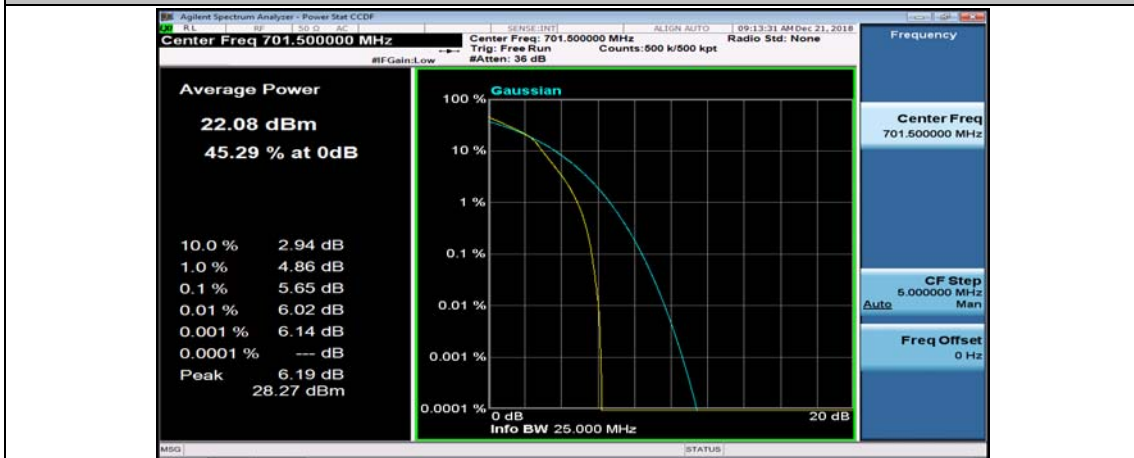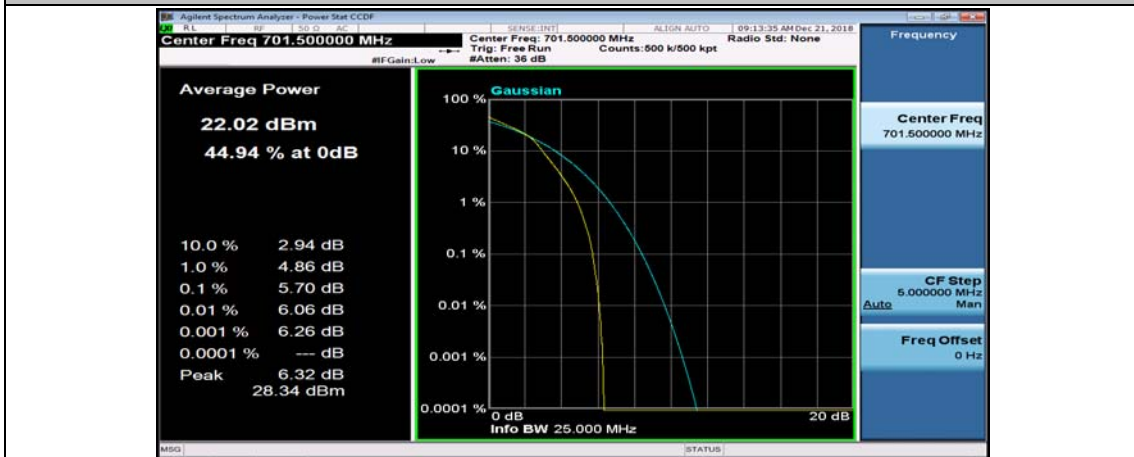| (Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24 |
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(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0
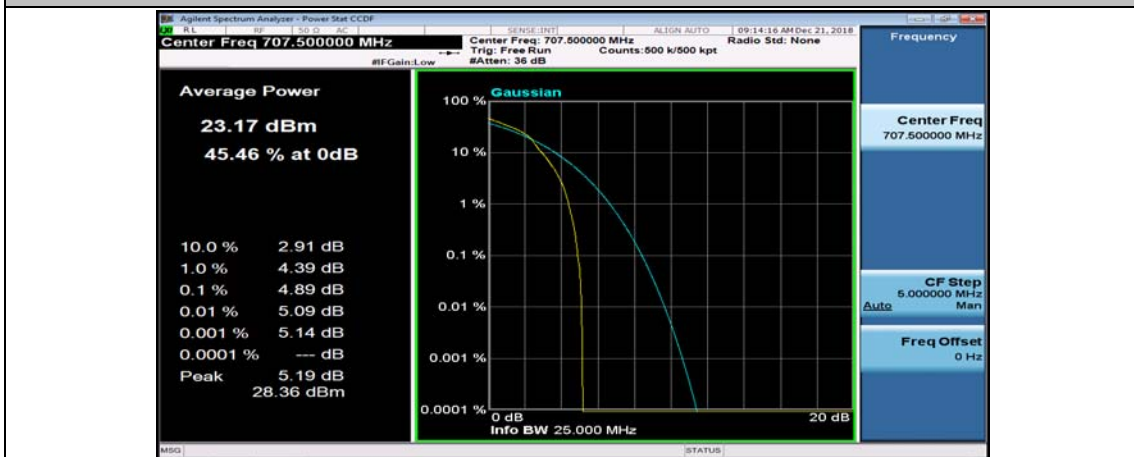

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6
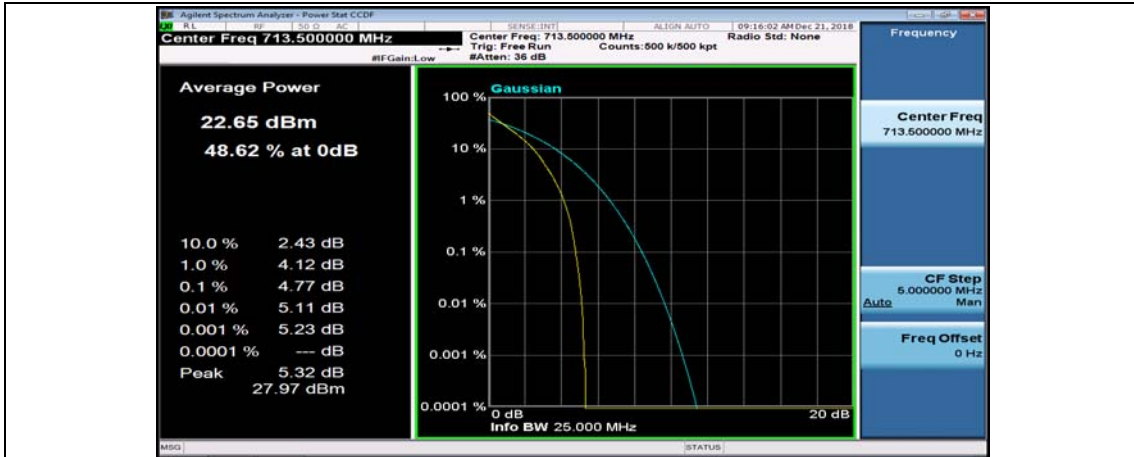
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13
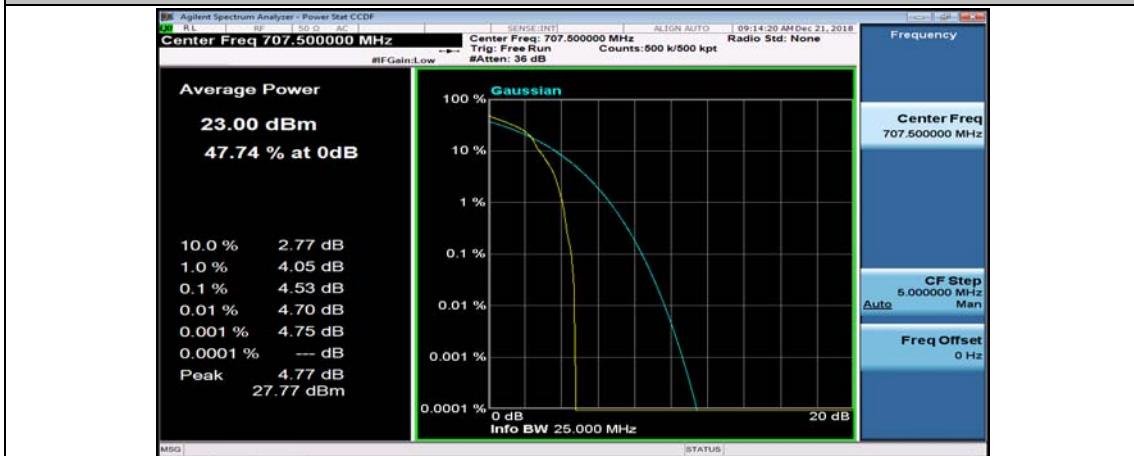

(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0
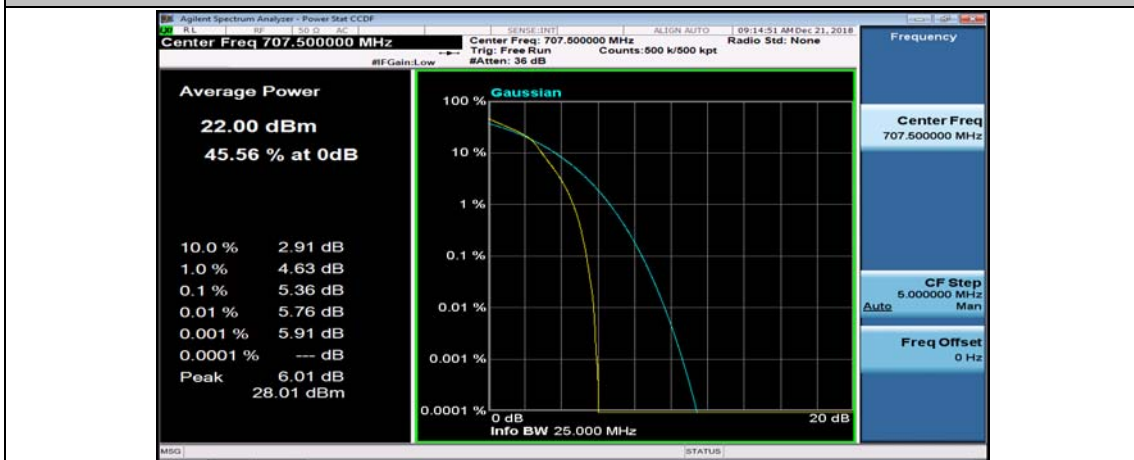
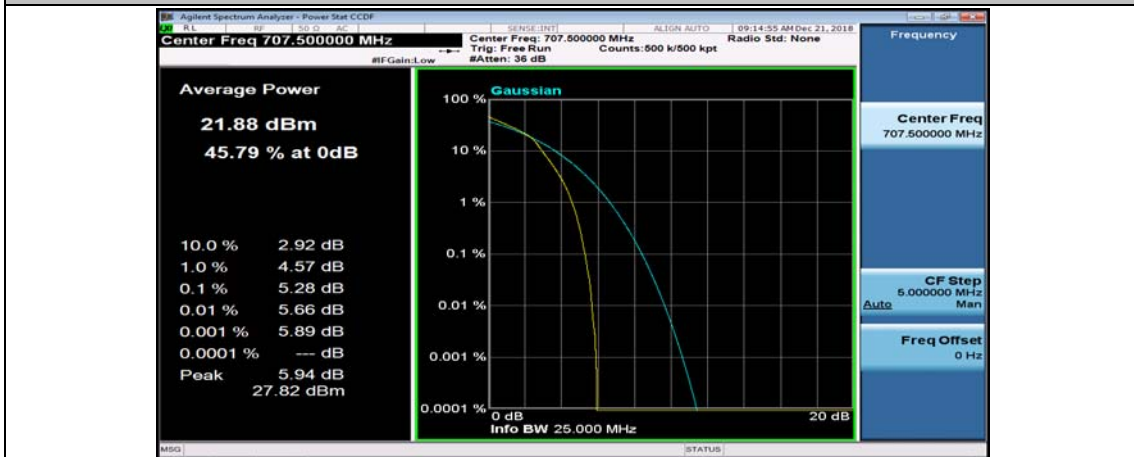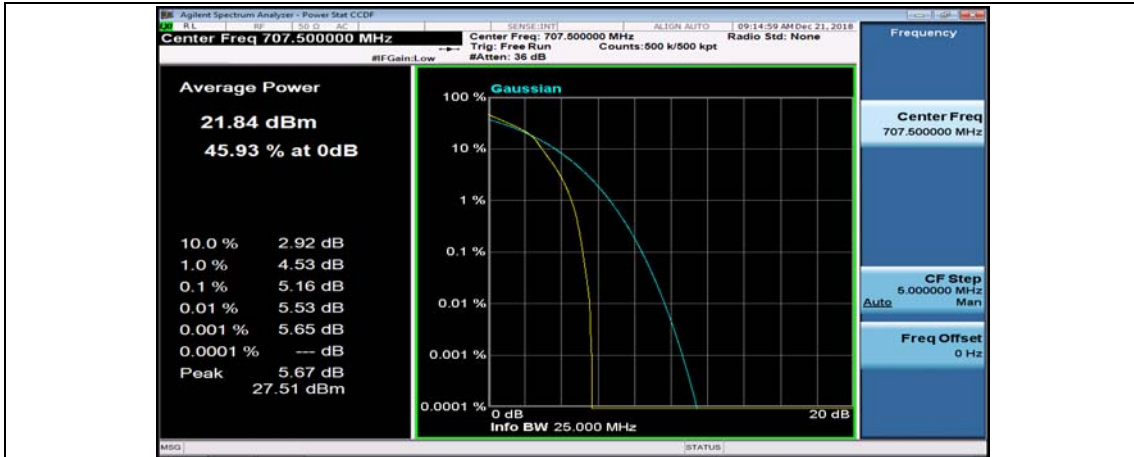| (Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0 |
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| (Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12 |
| |
| (Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24 |

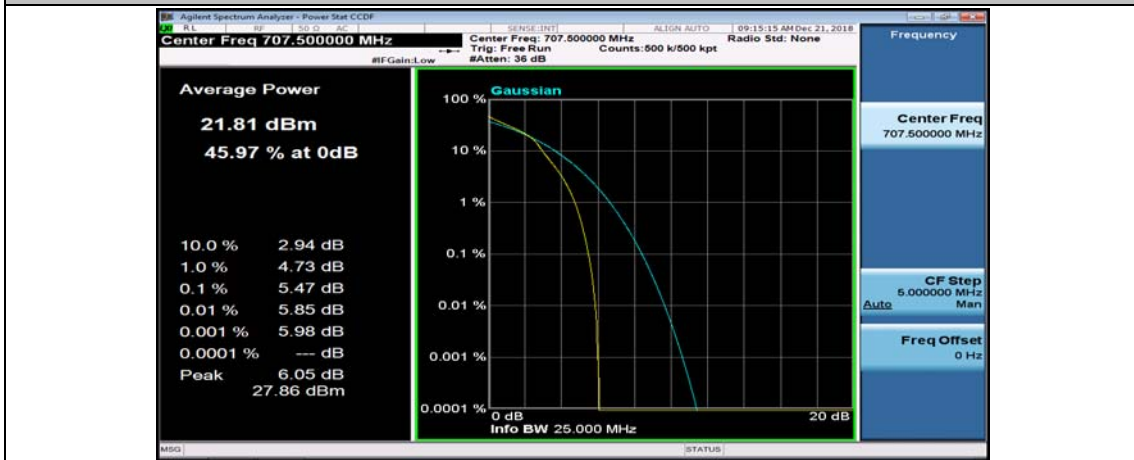(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0

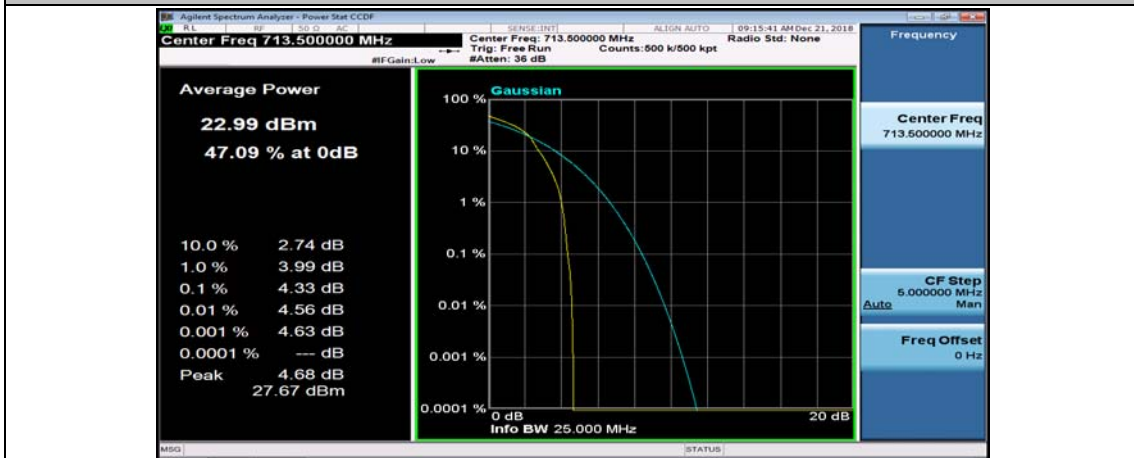(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12