Appendix for Band 5

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	22.39	PASS
		1	3	22.37	PASS
		1	5	22.41	PASS
		3	0	22.43	PASS
		3	2	22.36	PASS
		3	3	22.42	PASS
		6	0	21.44	PASS
	MCH	1	0	22.79	PASS
		1	3	22.81	PASS
		1	5	22.82	PASS
		3	0	22.36	PASS
		3	2	22.33	PASS
		3	3	22.33	PASS
		6	0	21.81	PASS
	HCH	1	0	23.15	PASS
		1	3	23.14	PASS
		1	5	23.19	PASS
		3	0	22.23	PASS
		3	2	22.21	PASS
		3	3	22.23	PASS
		6	0	22.25	PASS
16QAM	LCH	1	0	21.7	PASS
		1	3	21.74	PASS
		1	5	21.74	PASS
		3	0	21.36	PASS
		3	2	21.34	PASS
		3	3	21.38	PASS
		6	0	21.36	PASS
	MCH	1	0	22.07	PASS
		1	3	22.13	PASS
		1	5	22.1	PASS
		3	0	21.89	PASS

		3	2	21.87	PASS
		3	3	21.92	PASS
		6	0	21.45	PASS
	HCH	1	0	22.43	PASS
		1	3	22.47	PASS
		1	5	22.44	PASS
		3	0	22.37	PASS
		3	2	22.31	PASS
		3	3	22.34	PASS
		6	0	21.24	PASS

Channel Bandwidth: 3 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.31	PASS
		1	7	22.37	PASS
		1	14	22.34	PASS
		8	0	21.41	PASS
		8	4	21.44	PASS
		8	7	21.44	PASS
		15	0	21.39	PASS
	MCH	1	0	22.72	PASS
		1	7	22.83	PASS
		1	14	22.79	PASS
		8	0	21.79	PASS
		8	4	21.83	PASS
		8	7	21.83	PASS
		15	0	21.80	PASS
	HCH	1	0	23.15	PASS
		1	7	23.22	PASS
		1	14	23.19	PASS
		8	0	22.20	PASS
		8	4	22.23	PASS
		8	7	22.24	PASS
		15	0	22.22	PASS
16QAM	LCH	1	0	21.56	PASS
		1	7	21.66	PASS
		1	14	21.65	PASS
		8	0	20.45	PASS
		8	4	20.48	PASS
		8	7	20.46	PASS
		15	0	20.32	PASS

	MCH	1	0	22.15	PASS
		1	7	22.21	PASS
		1	14	22.18	PASS
		8	0	20.81	PASS
		8	4	20.81	PASS
		8	7	20.82	PASS
		15	0	20.78	PASS
	HCH	1	0	22.42	PASS
		1	7	22.50	PASS
		1	14	22.43	PASS
		8	0	21.17	PASS
		8	4	21.20	PASS
		8	7	21.21	PASS
		15	0	21.20	PASS

Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.47	PASS
		1	12	22.52	PASS
		1	24	22.53	PASS
		12	0	21.51	PASS
		12	6	21.52	PASS
		12	13	21.55	PASS
		25	0	21.45	PASS
	MCH	1	0	22.83	PASS
		1	12	22.92	PASS
		1	24	22.88	PASS
		12	0	21.86	PASS
		12	6	21.85	PASS
		12	13	21.92	PASS
		25	0	21.85	PASS
	HCH	1	0	23.21	PASS
		1	12	23.30	PASS
		1	24	23.27	PASS
		12	0	22.23	PASS
		12	6	22.24	PASS
		12	13	22.30	PASS
		25	0	22.22	PASS
16QAM	LCH	1	0	21.69	PASS
		1	12	21.78	PASS
		1	24	21.84	PASS

		12	0	20.51	PASS
		12	6	20.54	PASS
		12	13	20.60	PASS
		25	0	20.42	PASS
	MCH	1	0	22.15	PASS
		1	12	22.22	PASS
		1	24	22.16	PASS
		12	0	20.96	PASS
		12	6	20.95	PASS
		12	13	21.00	PASS
		25	0	20.85	PASS
	HCH	1	0	22.37	PASS
		1	12	22.47	PASS
		1	24	22.46	PASS
		12	0	21.22	PASS
		12	6	21.24	PASS
		12	13	21.26	PASS
		25	0	21.25	PASS

Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.43	PASS
		1	24	23.33	PASS
		1	49	22.68	PASS
		25	0	21.50	PASS
		25	12	21.59	PASS
		25	25	21.68	PASS
		50	0	21.60	PASS
	MCH	1	0	22.70	PASS
		1	24	23.31	PASS
		1	49	22.97	PASS
		25	0	21.80	PASS
		25	12	21.88	PASS
		25	25	21.94	PASS
		50	0	21.86	PASS
	HCH	1	0	23.38	PASS
		1	24	23.11	PASS
		1	49	23.24	PASS
		25	0	22.07	PASS
		25	12	22.44	PASS
		25	25	22.21	PASS

		50	0	22.16	PASS
16QAM	LCH	1	0	21.70	PASS
		1	24	21.89	PASS
		1	49	22.04	PASS
		25	0	20.50	PASS
		25	12	20.60	PASS
		25	25	20.69	PASS
		50	0	20.58	PASS
	MCH	1	0	22.14	PASS
		1	24	22.26	PASS
		1	49	22.36	PASS
		25	0	20.84	PASS
		25	12	20.90	PASS
		25	25	20.94	PASS
		50	0	20.89	PASS
	HCH	1	0	22.29	PASS
		1	24	22.39	PASS
		1	49	22.50	PASS
		25	0	21.03	PASS
		25	12	21.12	PASS
		25	25	21.21	PASS
		50	0	21.15	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	<13	PASS
		1	3	4.39	<13	PASS
		1	5	4.45	<13	PASS
		3	0	4.37	<13	PASS
		3	2	4.49	<13	PASS
		3	3	4.48	<13	PASS
		6	0	5.04	<13	PASS
	MCH	1	0	5.45	<13	PASS
		1	3	5.23	<13	PASS
		1	5	5.12	<13	PASS
		3	0	5.21	<13	PASS
		3	2	5.2	<13	PASS
		3	3	5.1	<13	PASS
		6	0	5.69	<13	PASS
	HCH	1	0	4.94	<13	PASS
		1	3	4.88	<13	PASS
		1	5	4.56	<13	PASS
		3	0	5.01	<13	PASS
		3	2	4.93	<13	PASS
		3	3	4.88	<13	PASS
		6	0	5.44	<13	PASS
16QAM	LCH	1	0	5.24	<13	PASS
		1	3	5.29	<13	PASS
		1	5	5.42	<13	PASS
		3	0	5.38	<13	PASS
		3	2	5.4	<13	PASS
		3	3	5.47	<13	PASS
		6	0	5.79	<13	PASS
	MCH	1	0	6.21	<13	PASS
		1	3	6.11	<13	PASS
		1	5	6.02	<13	PASS
		3	0	6.17	<13	PASS

		3	2	6.26	<13	PASS
		3	3	6.12	<13	PASS
		6	0	6.58	<13	PASS
	HCH	1	0	5.99	<13	PASS
		1	3	5.74	<13	PASS
		1	5	5.71	<13	PASS
		3	0	5.8	<13	PASS
		3	2	5.68	<13	PASS
		3	3	5.63	<13	PASS
		6	0	6.44	<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	4.36	<13	PASS
		1	7	4.68	<13	PASS
		1	14	4.94	<13	PASS
		8	0	5.16	<13	PASS
		8	4	5.32	<13	PASS
		8	7	5.34	<13	PASS
		15	0	5.28	<13	PASS
	MCH	1	0	5.35	<13	PASS
		1	7	4.96	<13	PASS
		1	14	4.77	<13	PASS
		8	0	5.84	<13	PASS
		8	4	5.67	<13	PASS
		8	7	5.61	<13	PASS
		15	0	5.83	<13	PASS
	HCH	1	0	5.06	<13	PASS
		1	7	5.22	<13	PASS
		1	14	4.72	<13	PASS
		8	0	5.77	<13	PASS
		8	4	5.81	<13	PASS
		8	7	5.69	<13	PASS
		15	0	5.71	<13	PASS
16QAM	LCH	1	0	5.32	<13	PASS
		1	7	5.56	<13	PASS
		1	14	5.83	<13	PASS
		8	0	5.71	<13	PASS
		8	4	5.92	<13	PASS

		8	7	6.02	<13	PASS
		15	0	6.27	<13	PASS
	MCH	1	0	6.3	<13	PASS
		1	7	5.93	<13	PASS
		1	14	5.74	<13	PASS
		8	0	6.57	<13	PASS
		8	4	6.45	<13	PASS
		8	7	6.22	<13	PASS
		15	0	6.49	<13	PASS
	HCH	1	0	6.06	<13	PASS
		1	7	6.11	<13	PASS
		1	14	5.76	<13	PASS
		8	0	6.65	<13	PASS
		8	4	6.76	<13	PASS
		8	7	6.65	<13	PASS
		15	0	6.54	<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	4.52	<13	PASS
		1	12	4.95	<13	PASS
		1	24	5.66	<13	PASS
		12	0	5.24	<13	PASS
		12	6	5.46	<13	PASS
		12	13	5.79	<13	PASS
		25	0	5.57	<13	PASS
	MCH	1	0	5.61	<13	PASS
		1	12	5.27	<13	PASS
		1	24	4.67	<13	PASS
		12	0	5.76	<13	PASS
		12	6	5.57	<13	PASS
		12	13	5.41	<13	PASS
		25	0	5.77	<13	PASS
	HCH	1	0	4.87	<13	PASS
		1	12	5.08	<13	PASS
		1	24	4.68	<13	PASS
		12	0	5.71	<13	PASS
		12	6	5.95	<13	PASS
		12	13	5.73	<13	PASS

		25	0	5.81	<13	PASS
16QAM	LCH	1	0	5.39	<13	PASS
		1	12	5.67	<13	PASS
		1	24	6.37	<13	PASS
		12	0	6.08	<13	PASS
		12	6	6.23	<13	PASS
		12	13	6.56	<13	PASS
		25	0	6.19	<13	PASS
	MCH	1	0	6.66	<13	PASS
		1	12	6.13	<13	PASS
		1	24	5.62	<13	PASS
		12	0	6.62	<13	PASS
		12	6	6.39	<13	PASS
		12	13	6.3	<13	PASS
		25	0	6.5	<13	PASS
	HCH	1	0	5.91	<13	PASS
		1	12	5.96	<13	PASS
		1	24	5.77	<13	PASS
		12	0	6.53	<13	PASS
		12	6	6.31	<13	PASS
		12	13	6.47	<13	PASS
		25	0	6.42	<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	4.44	<13	PASS
		1	24	5.37	<13	PASS
		1	49	5.82	<13	PASS
		25	0	5.49	<13	PASS
		25	12	5.99	<13	PASS
		25	25	6.23	<13	PASS
		50	0	5.9	<13	PASS
	MCH	1	0	5.61	<13	PASS
		1	24	5.09	<13	PASS
		1	49	4.54	<13	PASS
		25	0	5.99	<13	PASS
		25	12	5.74	<13	PASS
		25	25	5.41	<13	PASS
		50	0	5.73	<13	PASS

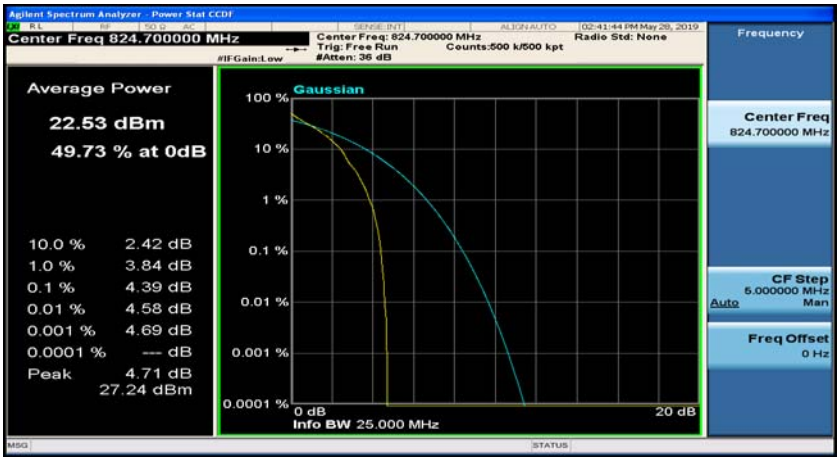
	HCH	1	0	4.37	<13	PASS
		1	24	4.75	<13	PASS
		1	49	4.88	<13	PASS
		25	0	5.21	<13	PASS
		25	12	5.47	<13	PASS
		25	25	5.67	<13	PASS
		50	0	5.58	<13	PASS
16QAM	LCH	1	0	5.2	<13	PASS
		1	24	6.36	<13	PASS
		1	49	6.81	<13	PASS
		25	0	6.34	<13	PASS
		25	12	6.73	<13	PASS
		25	25	6.99	<13	PASS
		50	0	6.53	<13	PASS
	MCH	1	0	6.68	<13	PASS
		1	24	5.88	<13	PASS
		1	49	5.32	<13	PASS
		25	0	6.77	<13	PASS
		25	12	6.52	<13	PASS
		25	25	6.2	<13	PASS
		50	0	6.46	<13	PASS
	HCH	1	0	5.55	<13	PASS
		1	24	5.86	<13	PASS
		1	49	5.9	<13	PASS
		25	0	6.16	<13	PASS
		25	12	6.41	<13	PASS
		25	25	6.54	<13	PASS
		50	0	6.28	<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

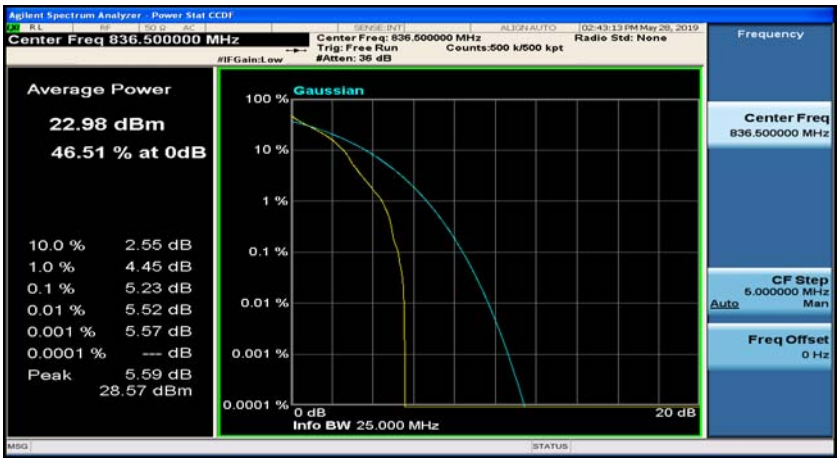
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2

(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

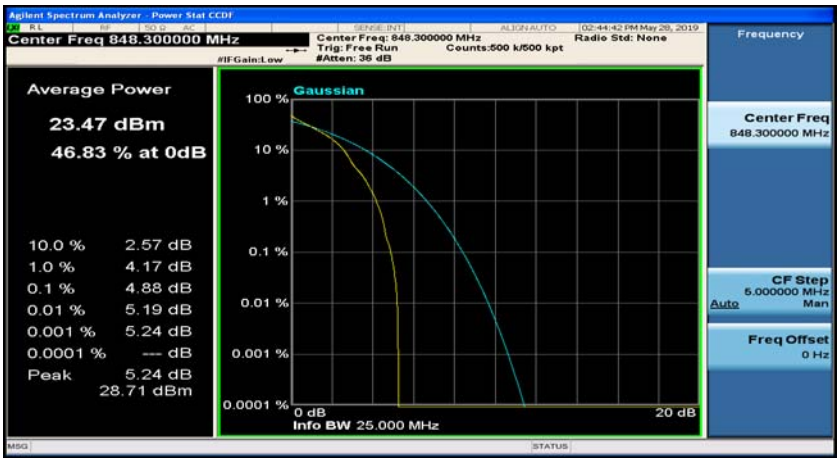
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2

(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

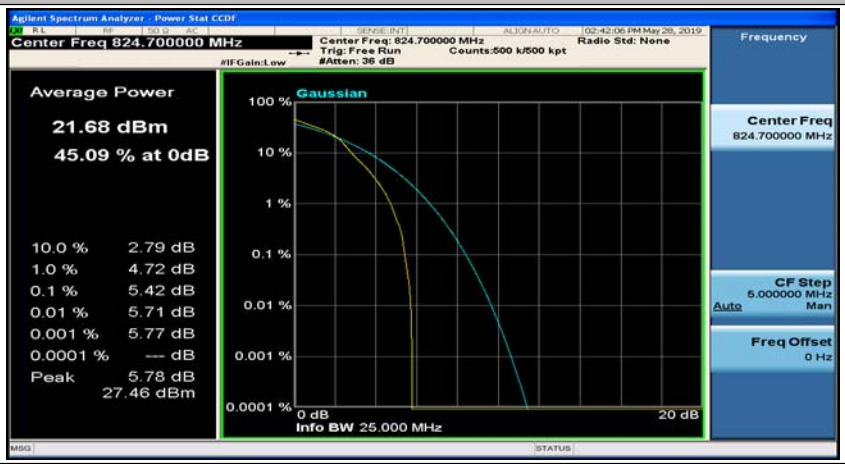
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0

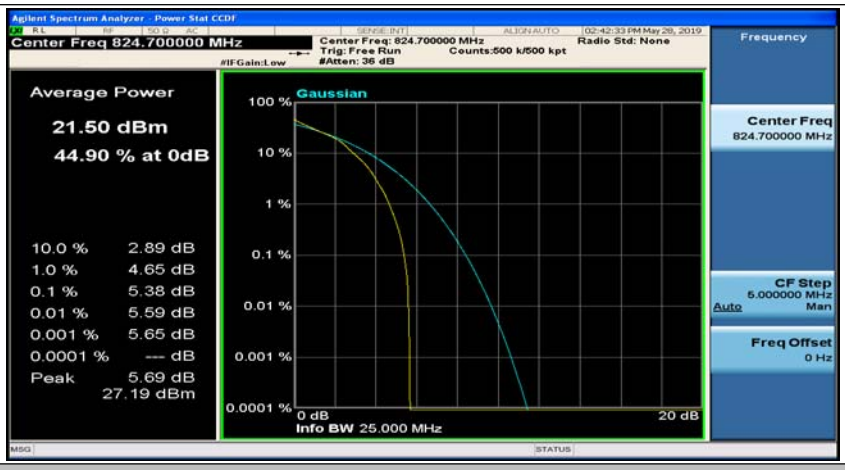
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3

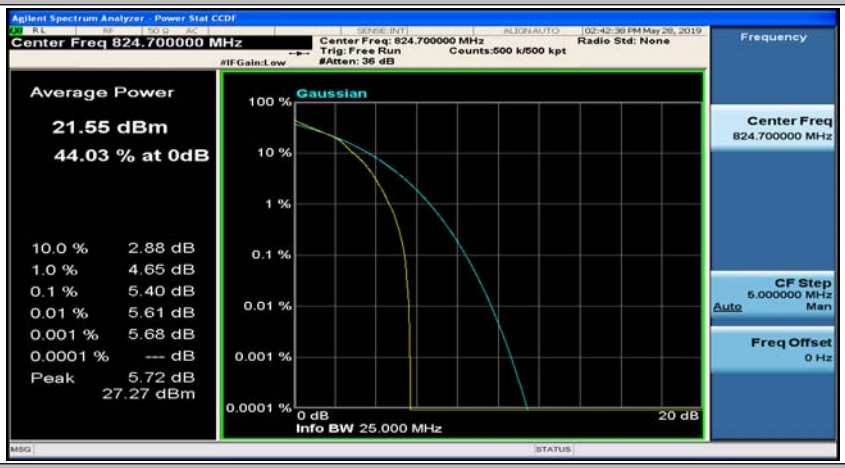
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



(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

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0

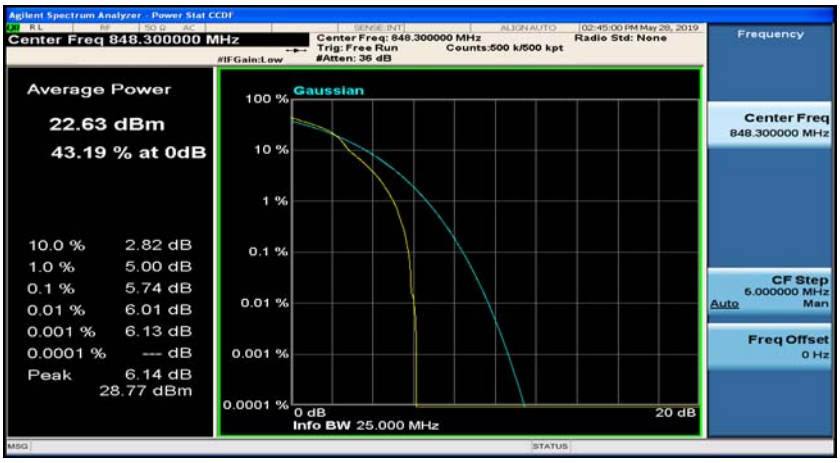
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3

(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0

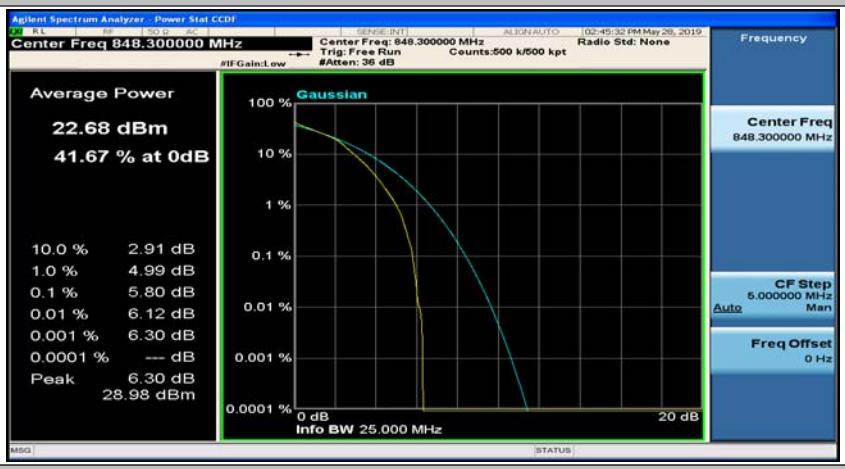
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3

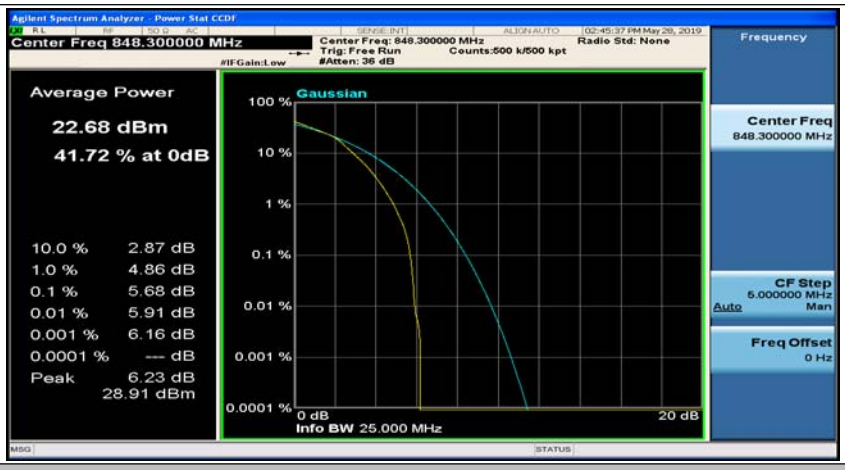


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5

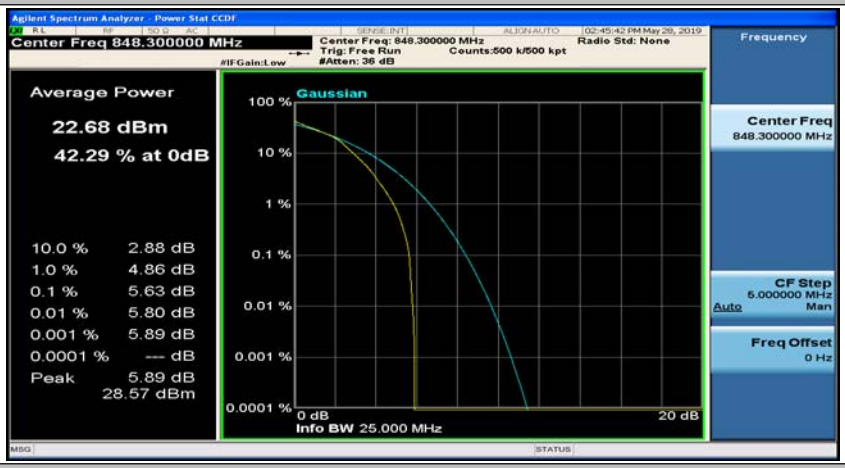
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

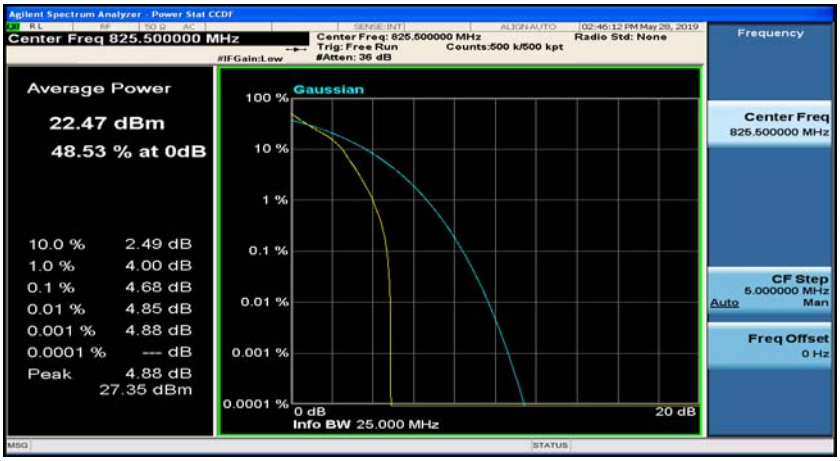


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14

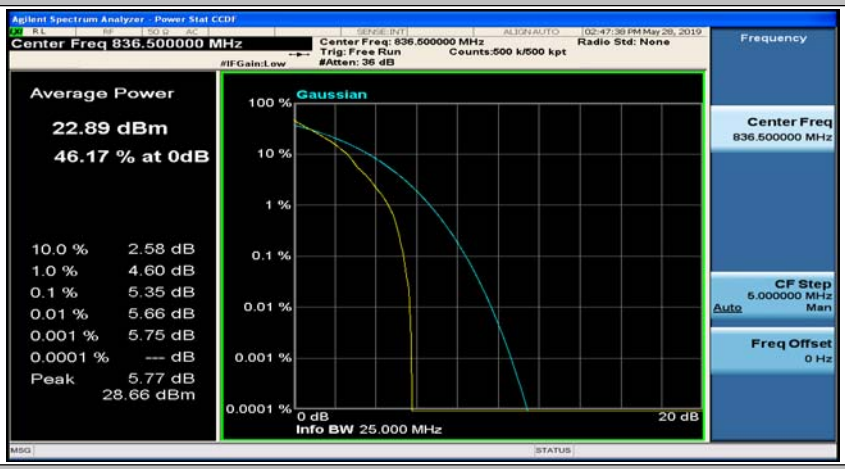
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4

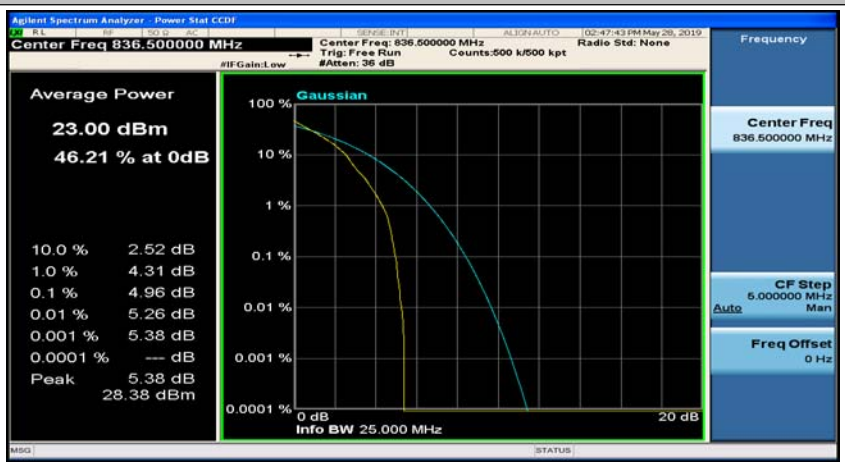
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

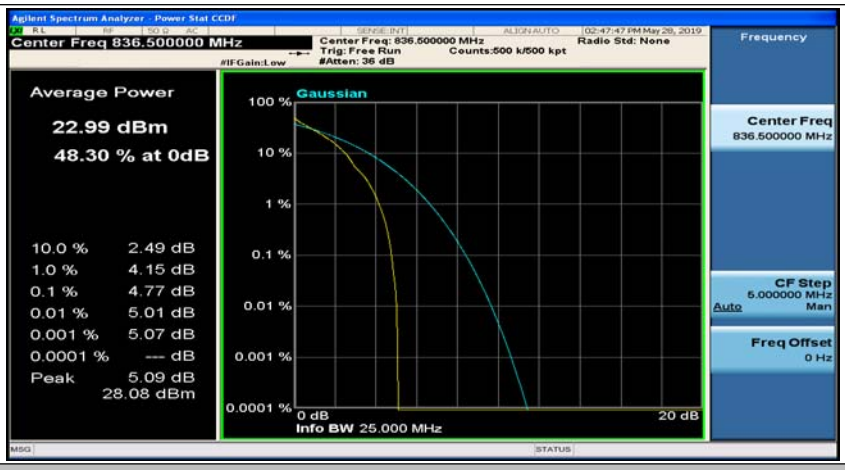
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



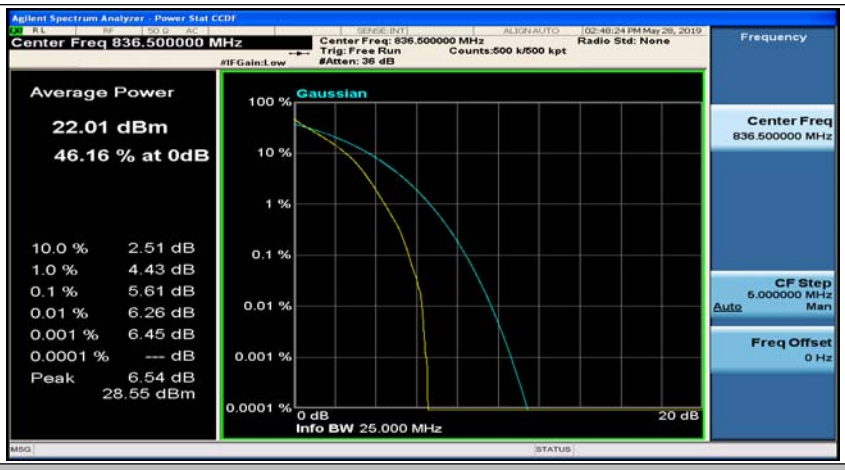
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4

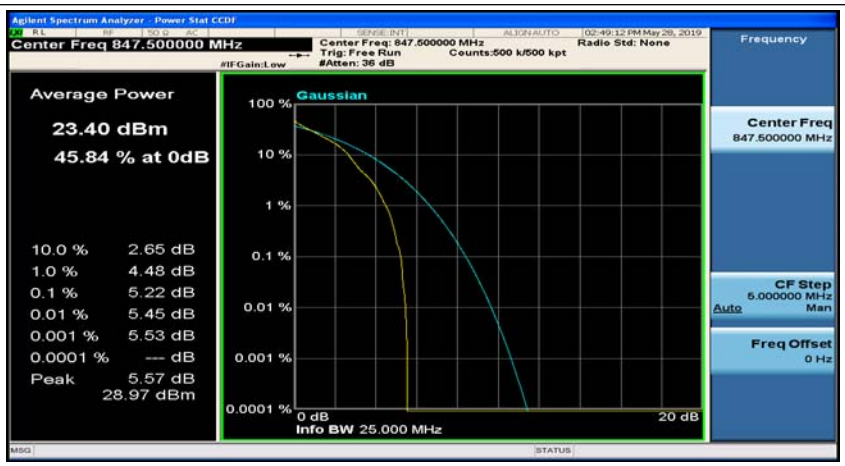
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4

(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7

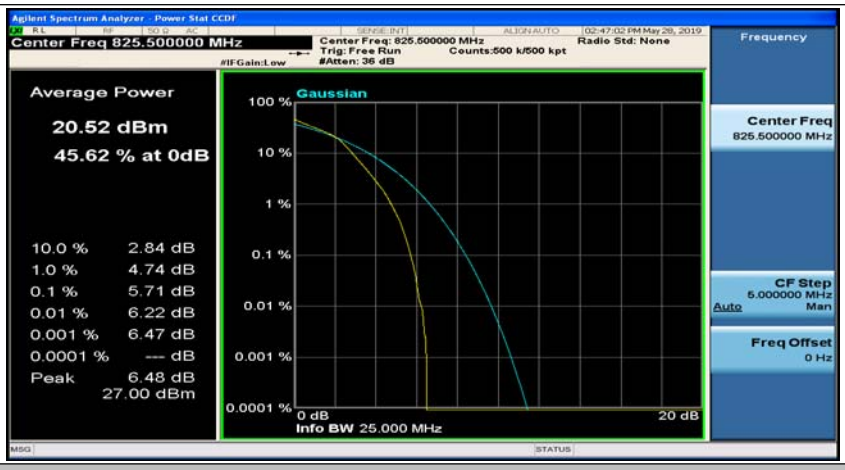
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0

(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



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7

(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

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4

(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7

(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0

(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

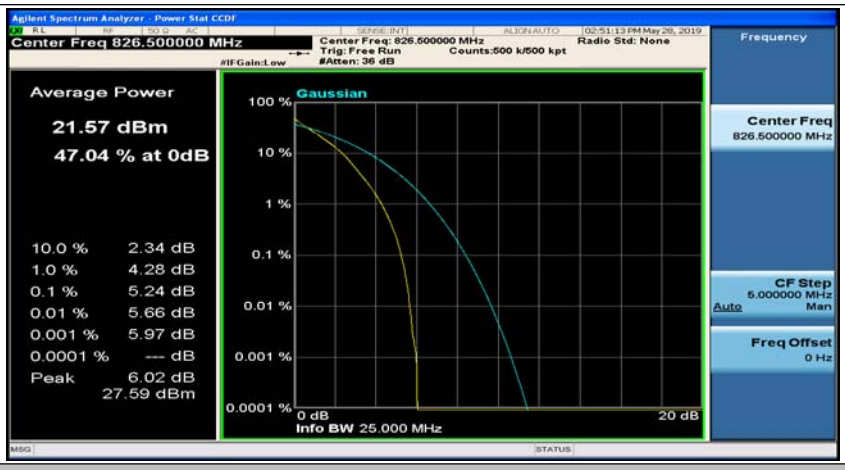
Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

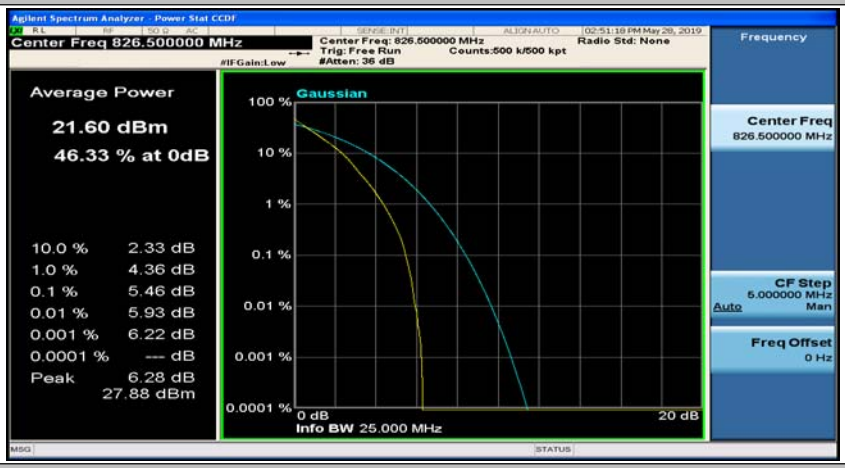
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

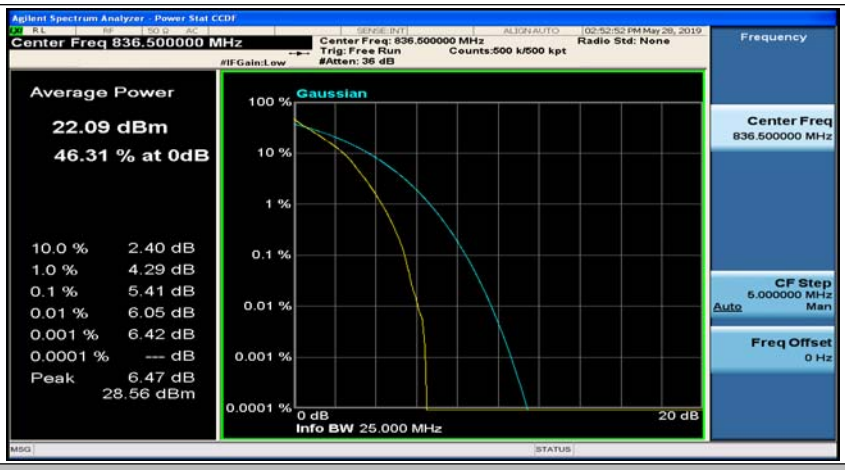
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#6

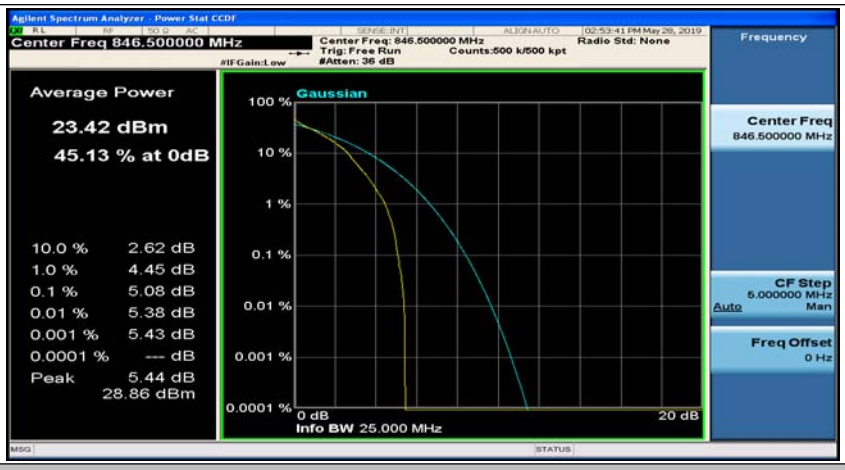
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



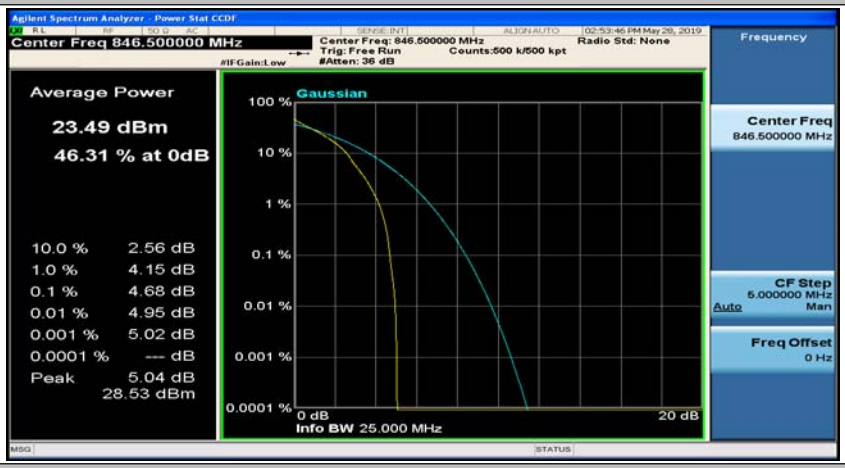
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

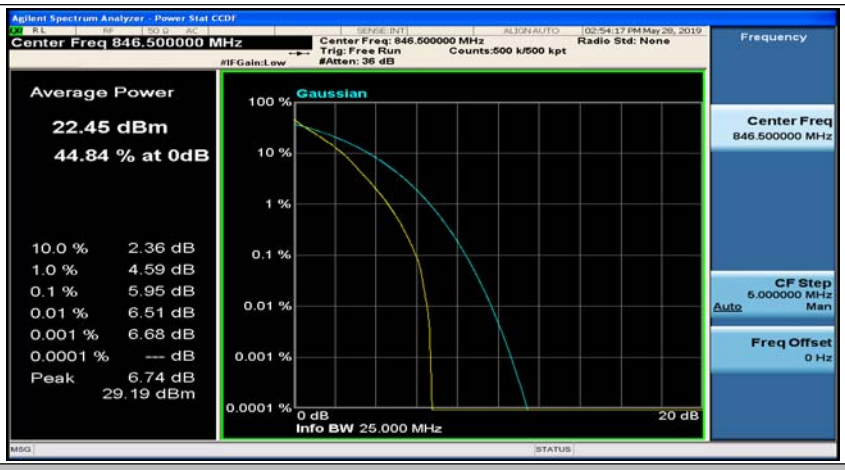


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

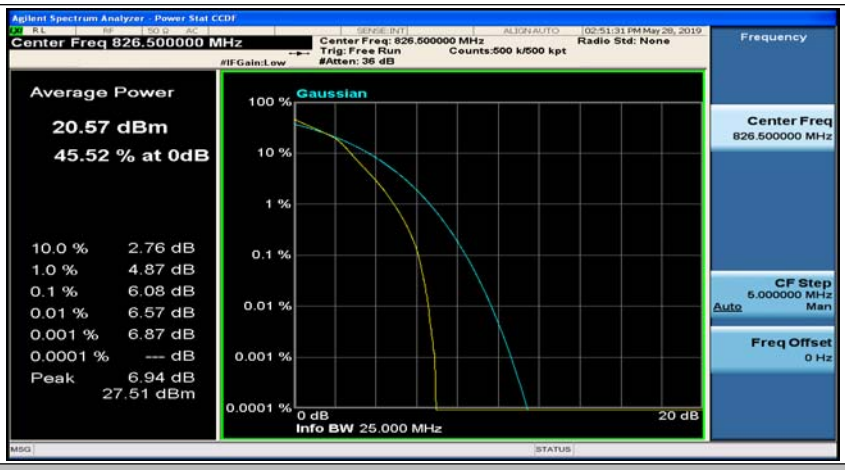
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(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

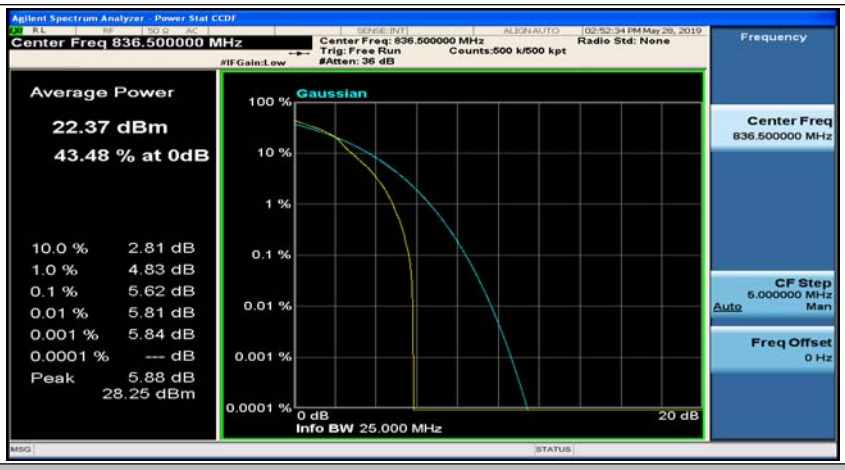
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

(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