Appendix E: Test Data for E-UTRA Band 5

Product Name: Locator
Trade Mark: AROCO
Test Model: Aroco Locator AL312

Environmental Conditions

Temperature:	23.5
Relative Humidity:	53.1
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

E.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.34	21.41	PASS
		1	3	22.45	21.58	PASS
		1	5	22.06	21.31	PASS
		3	0	22.80	21.75	PASS
		3	2	22.33	21.51	PASS
		3	3	22.33	21.42	PASS
		6	0	22.14	21.27	PASS
	MCH	1	0	22.63	21.60	PASS
		1	3	22.68	21.66	PASS
		1	5	22.65	21.70	PASS
		3	0	22.74	21.29	PASS
		3	2	22.26	21.42	PASS
		3	3	22.70	21.80	PASS
		6	0	22.73	21.62	PASS
	HCH	1	0	22.54	21.27	PASS
		1	3	22.12	21.31	PASS
		1	5	22.56	21.40	PASS
		3	0	22.55	21.48	PASS
		3	2	22.64	21.49	PASS
		3	3	22.52	21.50	PASS
		6	0	22.22	21.48	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.17	21.41	PASS
		1	7	22.62	21.67	PASS
		1	14	22.09	21.40	PASS
		8	0	22.20	21.47	PASS
		8	4	22.87	21.33	PASS
		8	7	22.51	21.50	PASS
		15	0	22.39	21.41	PASS
	MCH	1	0	22.16	21.28	PASS
		1	7	22.41	21.52	PASS
		1	14	22.29	21.37	PASS
		8	0	22.66	21.63	PASS
		8	4	22.40	21.50	PASS
		8	7	22.15	21.36	PASS
		15	0	22.50	21.80	PASS
	HCH	1	0	22.30	21.48	PASS
		1	7	22.59	21.65	PASS
		1	14	22.26	21.34	PASS
		8	0	22.73	21.84	PASS
		8	4	22.66	21.62	PASS
		8	7	22.25	21.34	PASS
		15	0	22.40	21.45	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.54	21.71	PASS
		1	12	22.43	21.39	PASS
		1	24	22.32	21.50	PASS
		12	0	22.46	21.49	PASS
		12	6	22.07	21.41	PASS
		12	13	22.35	21.45	PASS
		25	0	22.87	21.41	PASS
	MCH	1	0	22.38	21.54	PASS
		1	12	22.56	21.61	PASS
		1	24	22.79	21.97	PASS
		12	0	22.67	21.72	PASS
		12	6	22.85	21.82	PASS
		12	13	22.50	21.33	PASS
		25	0	22.80	21.91	PASS
	HCH	1	0	22.23	21.43	PASS
		1	12	22.13	21.42	PASS
		1	24	22.69	21.73	PASS
		12	0	22.85	21.77	PASS
		12	6	22.47	21.62	PASS
		12	13	22.17	21.40	PASS
		25	0	22.59	21.58	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.46	21.65	PASS
		1	24	22.99	22.25	PASS
		1	49	23.10	22.36	PASS
		25	0	22.66	21.73	PASS
		25	12	22.72	21.73	PASS
		25	25	22.96	21.88	PASS
		50	0	22.78	22.03	PASS
	MCH	1	0	23.05	22.44	PASS
		1	24	22.80	21.98	PASS
		1	49	23.16	22.36	PASS
		25	0	23.36	22.00	PASS
		25	12	22.81	21.67	PASS
		25	25	22.95	21.71	PASS
		50	0	22.58	21.64	PASS
	HCH	1	0	23.06	21.98	PASS
		1	24	23.17	22.39	PASS
		1	49	23.11	22.04	PASS
		25	0	22.57	21.53	PASS
		25	12	22.89	21.91	PASS
		25	25	23.16	22.06	PASS
		50	0	22.83	21.79	PASS

E.2 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	4.99	<13	PASS
		1	3	4.96	<13	PASS
		1	5	5	<13	PASS
		3	0	5	<13	PASS
		3	2	4.99	<13	PASS
		3	3	4.97	<13	PASS
		6	0	5.52	<13	PASS
	MCH	1	0	5.13	<13	PASS
		1	3	5.19	<13	PASS
		1	5	5.22	<13	PASS
		3	0	5.42	<13	PASS
		3	2	5.37	<13	PASS
		3	3	5.4	<13	PASS
		6	0	5.73	<13	PASS
	HCH	1	0	5.07	<13	PASS
		1	3	4.88	<13	PASS
		1	5	4.98	<13	PASS
		3	0	5.13	<13	PASS
		3	2	5.08	<13	PASS
		3	3	5.11	<13	PASS
		6	0	5.54	<13	PASS
16QAM	LCH	1	0	5.91	<13	PASS
		1	3	5.83	<13	PASS
		1	5	5.87	<13	PASS
		3	0	6.01	<13	PASS
		3	2	5.9	<13	PASS
		3	3	5.77	<13	PASS
		6	0	6.37	<13	PASS
	MCH	1	0	6.32	<13	PASS
		1	3	6.2	<13	PASS
		1	5	6.35	<13	PASS
		3	0	6.4	<13	PASS
		3	2	6.4	<13	PASS
		3	3	6.48	<13	PASS
		6	0	6.73	<13	PASS
	HCH	1	0	6.04	<13	PASS

		1	3	5.79	<13	PASS
		1	5	5.96	<13	PASS
		3	0	5.9	<13	PASS
		3	2	5.84	<13	PASS
		3	3	5.82	<13	PASS
		6	0	6.59	<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	4.91	<13	PASS
		1	7	4.8	<13	PASS
		1	14	4.89	<13	PASS
		8	0	5.47	<13	PASS
		8	4	5.36	<13	PASS
		8	7	5.48	<13	PASS
		15	0	5.38	<13	PASS
	MCH	1	0	5.02	<13	PASS
		1	7	5.01	<13	PASS
		1	14	5.31	<13	PASS
		8	0	5.8	<13	PASS
		8	4	5.86	<13	PASS
		8	7	5.83	<13	PASS
		15	0	5.77	<13	PASS
	HCH	1	0	4.76	<13	PASS
		1	7	4.7	<13	PASS
		1	14	4.83	<13	PASS
		8	0	5.71	<13	PASS
		8	4	5.62	<13	PASS
		8	7	5.65	<13	PASS
		15	0	5.69	<13	PASS
16QAM	LCH	1	0	5.85	<13	PASS
		1	7	5.63	<13	PASS
		1	14	5.55	<13	PASS
		8	0	6.09	<13	PASS
		8	4	6.08	<13	PASS
		8	7	6.12	<13	PASS
		15	0	6.38	<13	PASS
	MCH	1	0	6.19	<13	PASS
		1	7	6.26	<13	PASS
		1	14	6.28	<13	PASS
		8	0	6.46	<13	PASS
		8	4	6.47	<13	PASS
		8	7	6.58	<13	PASS
		15	0	6.69	<13	PASS
	HCH	1	0	5.77	<13	PASS
		1	7	5.74	<13	PASS
		1	14	5.77	<13	PASS
		8	0	6.39	<13	PASS

		8	4	6.27	<13	PASS
		8	7	6.3	<13	PASS
		15	0	6.44	<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	4.71	<13	PASS
		1	12	4.4	<13	PASS
		1	24	4.64	<13	PASS
		12	0	5.32	<13	PASS
		12	6	5.21	<13	PASS
		12	13	5.34	<13	PASS
		25	0	5.42	<13	PASS
	MCH	1	0	4.95	<13	PASS
		1	12	4.9	<13	PASS
		1	24	5.04	<13	PASS
		12	0	5.73	<13	PASS
		12	6	5.68	<13	PASS
		12	13	5.74	<13	PASS
		25	0	5.79	<13	PASS
	HCH	1	0	4.91	<13	PASS
		1	12	4.66	<13	PASS
		1	24	4.76	<13	PASS
		12	0	5.45	<13	PASS
		12	6	5.38	<13	PASS
		12	13	5.43	<13	PASS
		25	0	5.58	<13	PASS
16QAM	LCH	1	0	5.61	<13	PASS
		1	12	5.24	<13	PASS
		1	24	5.48	<13	PASS
		12	0	6.19	<13	PASS
		12	6	6.06	<13	PASS
		12	13	6.2	<13	PASS
		25	0	6.24	<13	PASS
	MCH	1	0	5.9	<13	PASS
		1	12	5.71	<13	PASS
		1	24	6.04	<13	PASS
		12	0	6.61	<13	PASS
		12	6	6.6	<13	PASS
		12	13	6.59	<13	PASS
		25	0	6.51	<13	PASS
	HCH	1	0	5.71	<13	PASS
		1	12	5.33	<13	PASS
		1	24	5.55	<13	PASS
		12	0	6.31	<13	PASS

		12	6	6.26	<13	PASS
		12	13	6.36	<13	PASS
		25	0	6.43	<13	PASS

Channel Bandwidth: 10 MHz

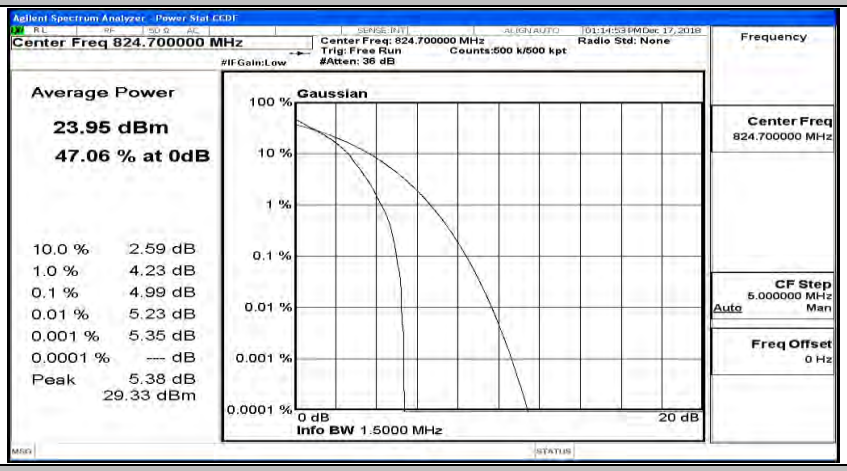
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.89	<13	PASS
		1	24	4.49	<13	PASS
		1	49	5	<13	PASS
		25	0	5.38	<13	PASS
		25	12	5.42	<13	PASS
		25	25	5.55	<13	PASS
		50	0	5.66	<13	PASS
	MCH	1	0	5.21	<13	PASS
		1	24	5.27	<13	PASS
		1	49	5.39	<13	PASS
		25	0	5.77	<13	PASS
		25	12	5.74	<13	PASS
		25	25	5.68	<13	PASS
		50	0	5.74	<13	PASS
	HCH	1	0	5.12	<13	PASS
		1	24	4.83	<13	PASS
		1	49	4.86	<13	PASS
		25	0	5.68	<13	PASS
		25	12	5.65	<13	PASS
		25	25	5.62	<13	PASS
		50	0	5.63	<13	PASS
16QAM	LCH	1	0	5.8	<13	PASS
		1	24	5.4	<13	PASS
		1	49	5.9	<13	PASS
		25	0	6.19	<13	PASS
		25	12	6.31	<13	PASS
		25	25	6.35	<13	PASS
		50	0	6.36	<13	PASS
	MCH	1	0	5.96	<13	PASS
		1	24	6.19	<13	PASS
		1	49	6.3	<13	PASS
		25	0	6.57	<13	PASS
		25	12	6.52	<13	PASS
		25	25	6.49	<13	PASS
		50	0	6.46	<13	PASS
	HCH	1	0	6.09	<13	PASS
		1	24	5.86	<13	PASS
		1	49	5.73	<13	PASS
		25	0	6.47	<13	PASS

		25	12	6.47	<13	PASS
		25	25	6.44	<13	PASS
		50	0	6.39	<13	PASS

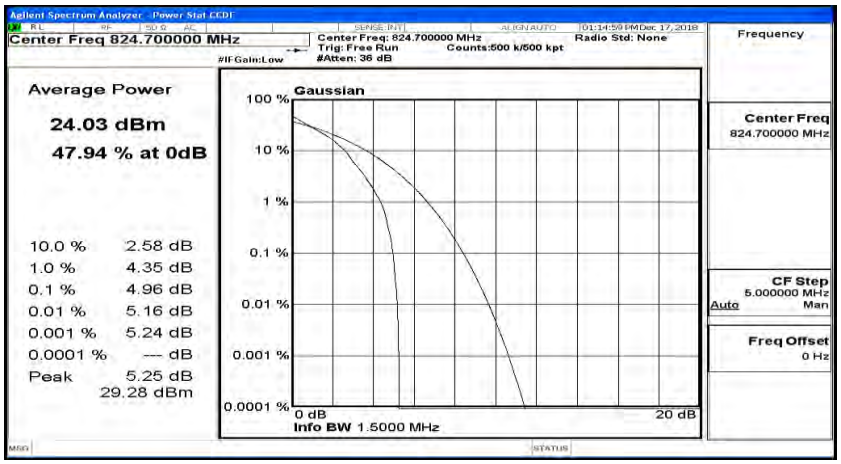
Test Graphs

Channel Bandwidth: 1.4 MHz

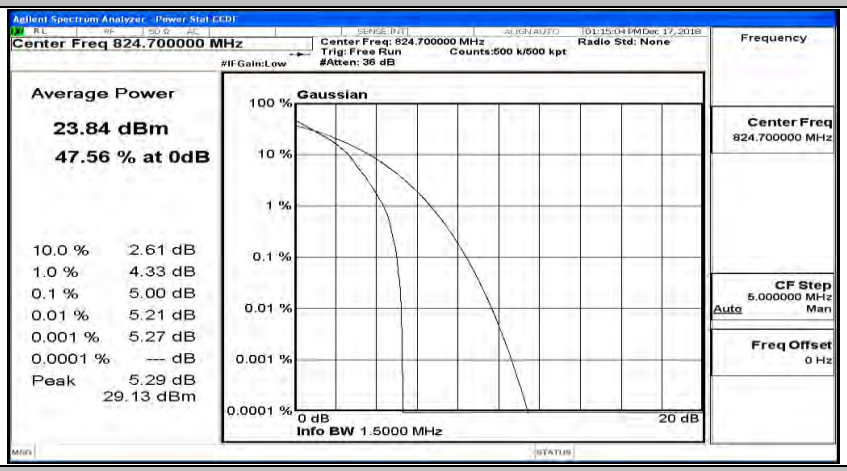
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



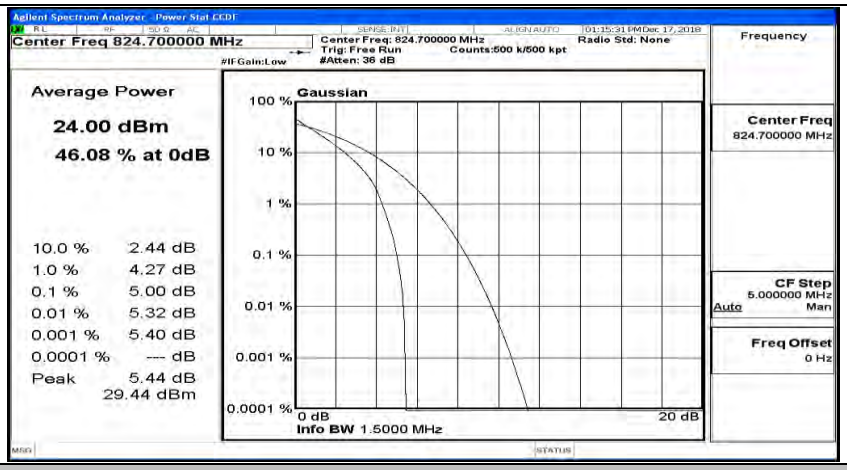
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



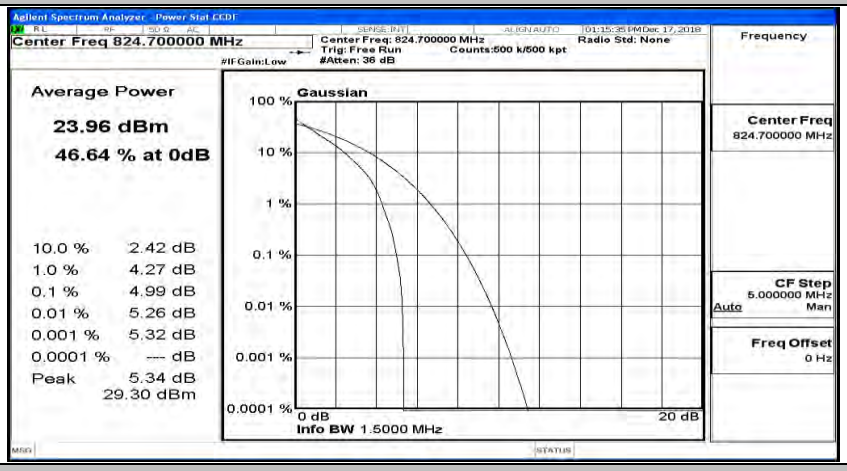
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



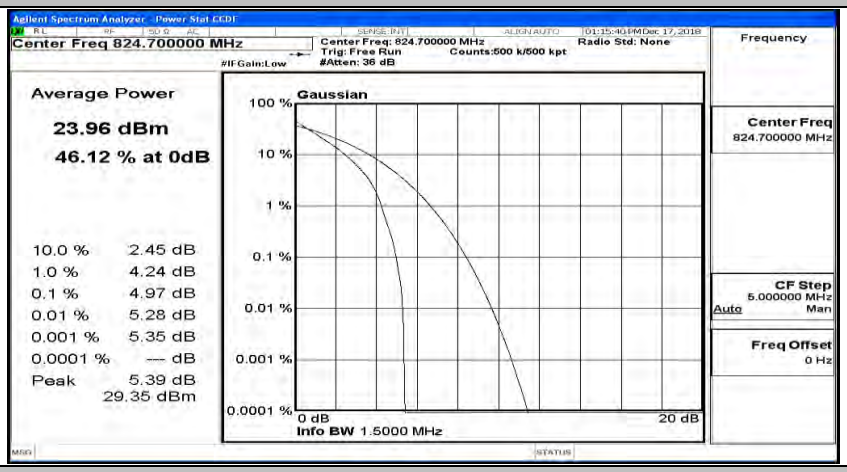
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



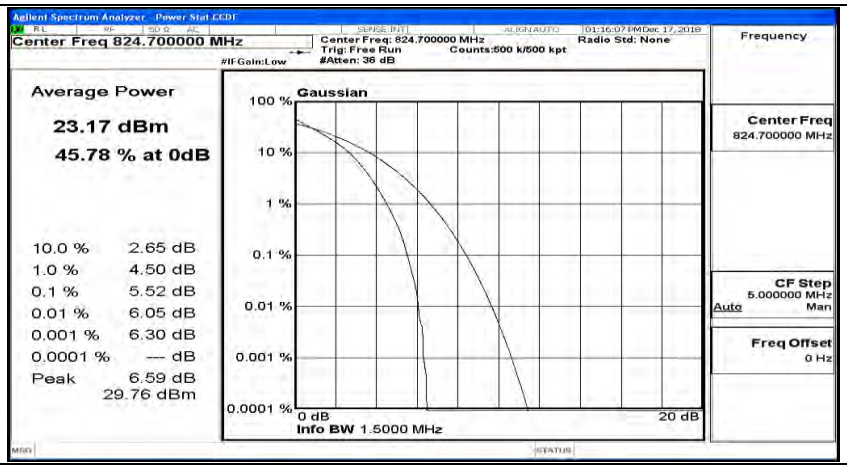
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



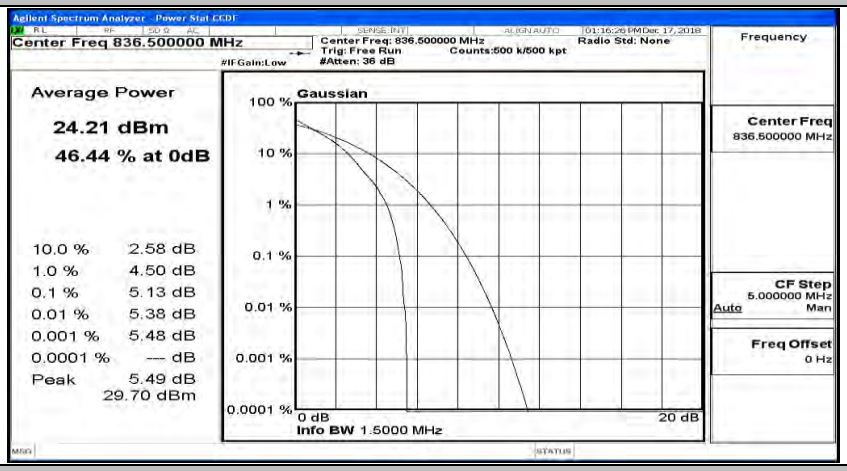
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



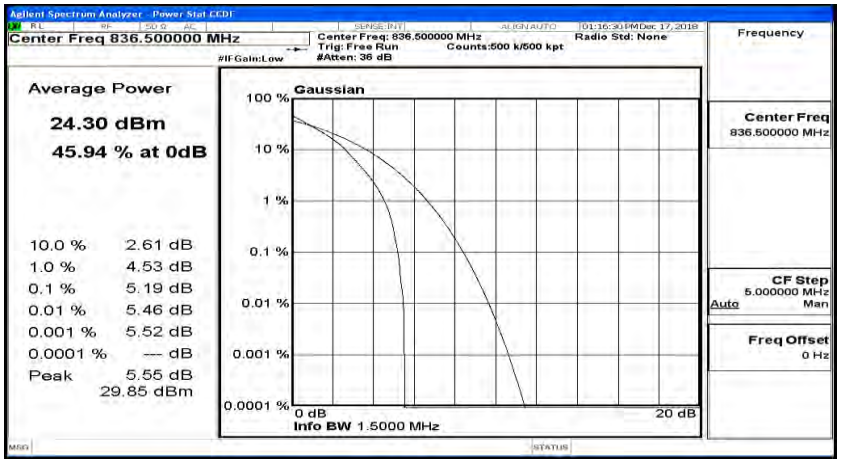
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



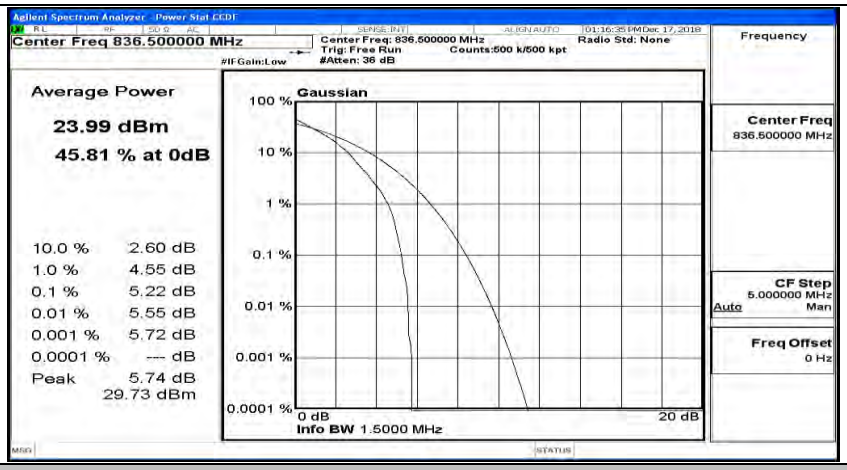
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



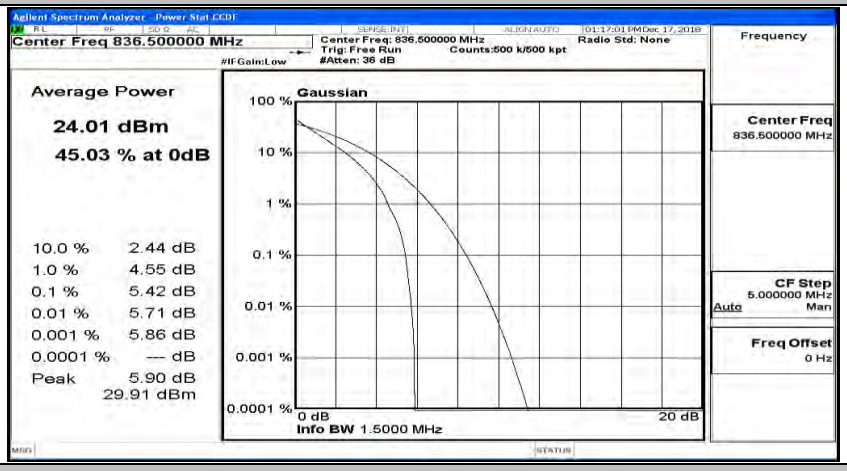
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



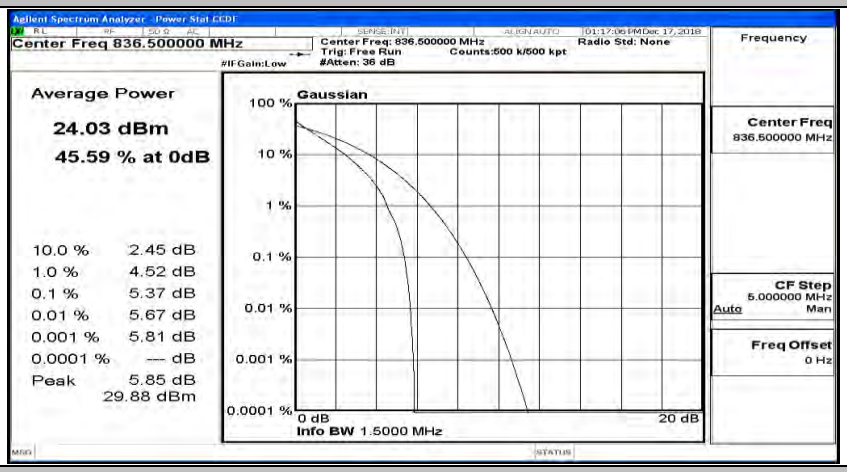
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



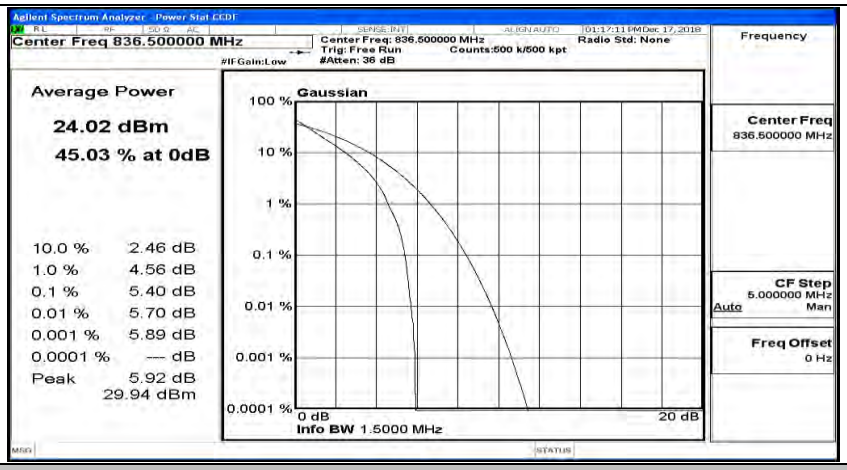
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



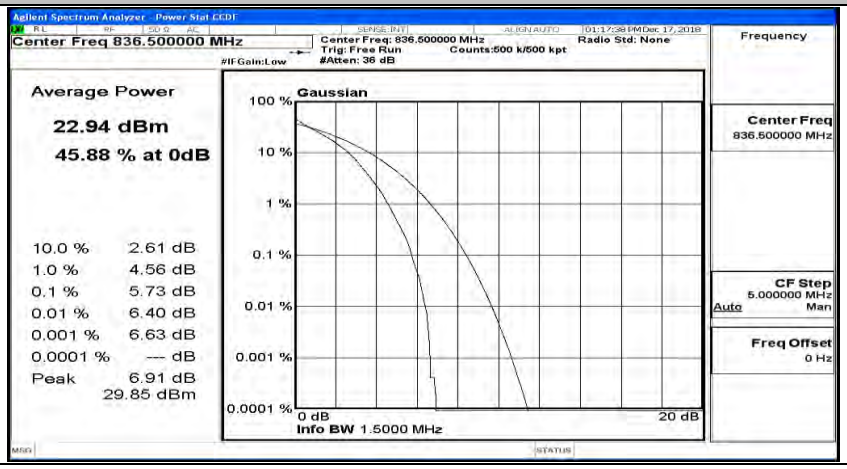
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



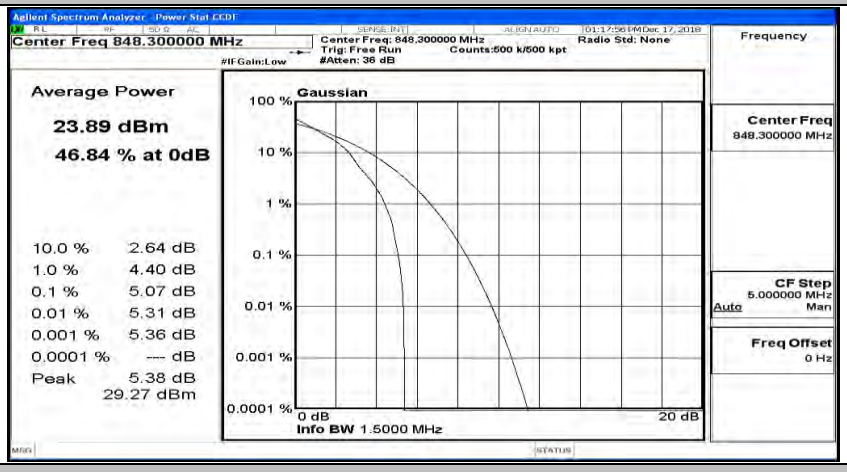
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



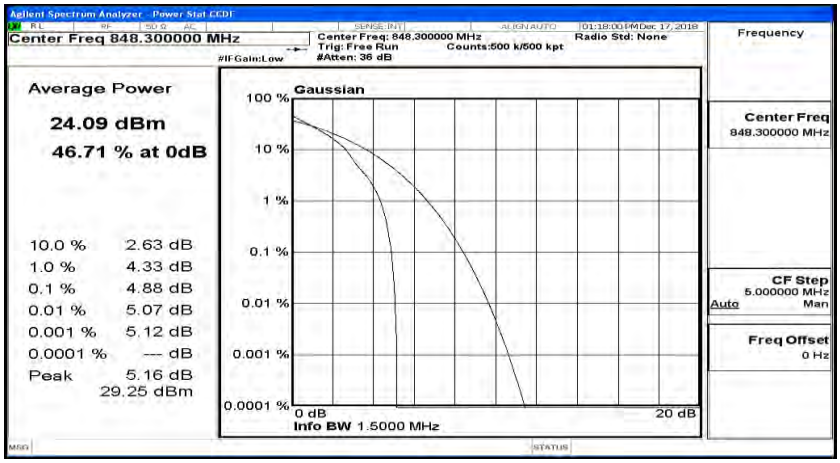
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



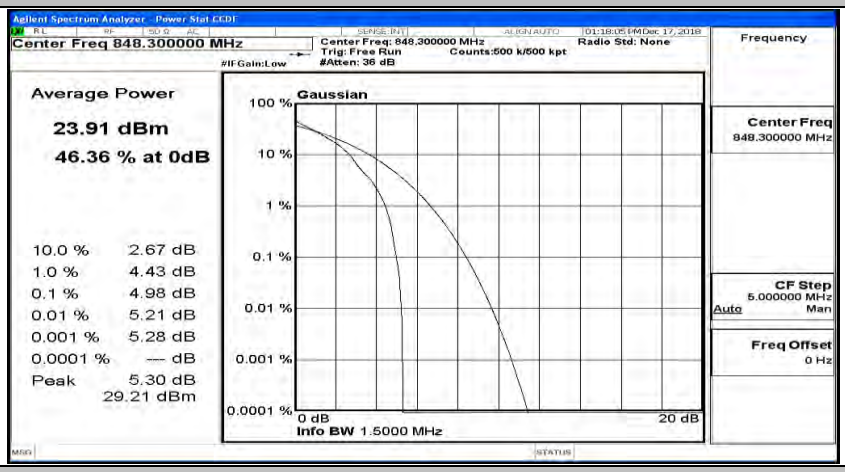
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



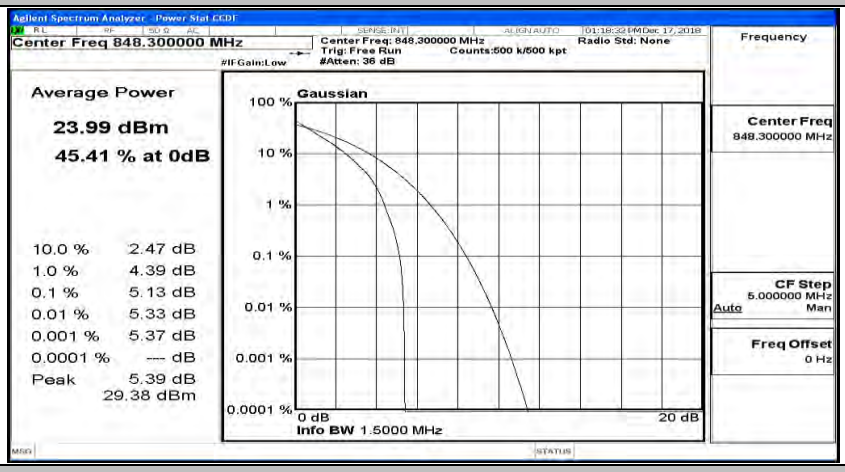
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



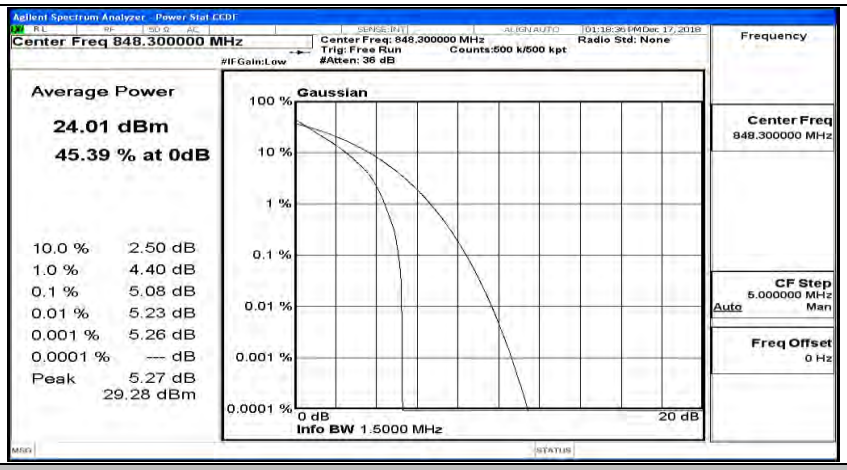
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



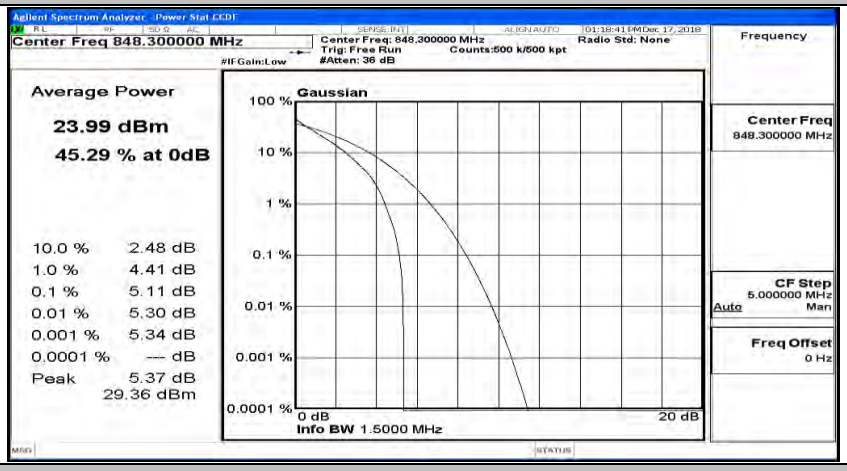
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



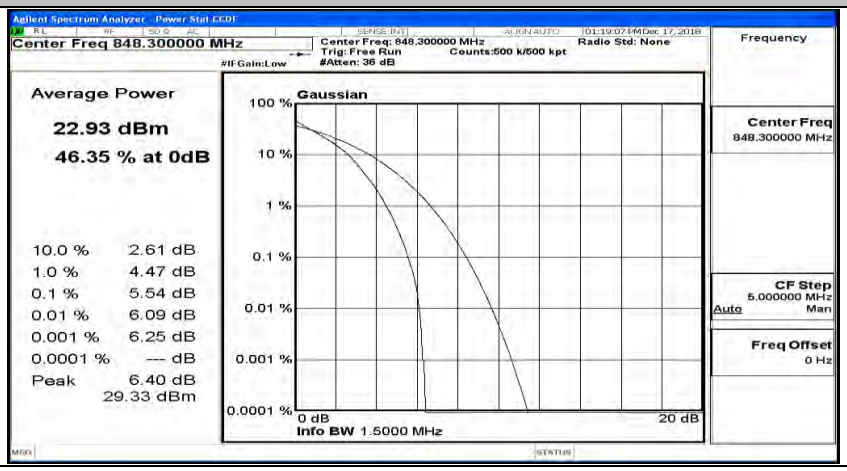
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



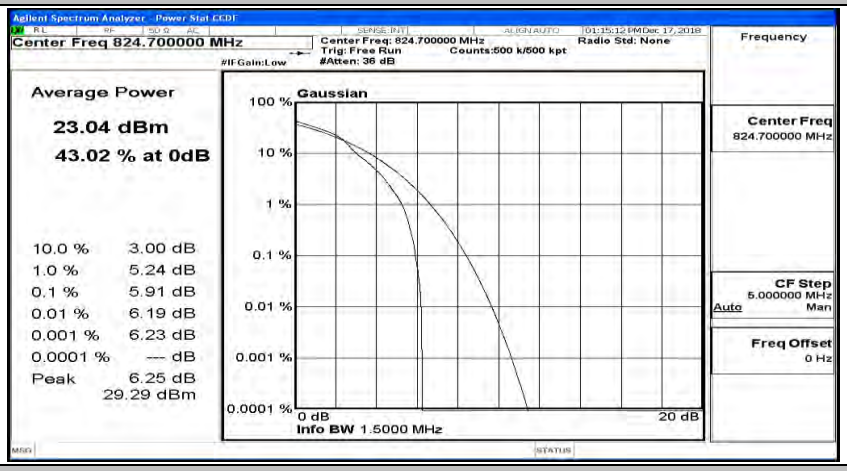
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



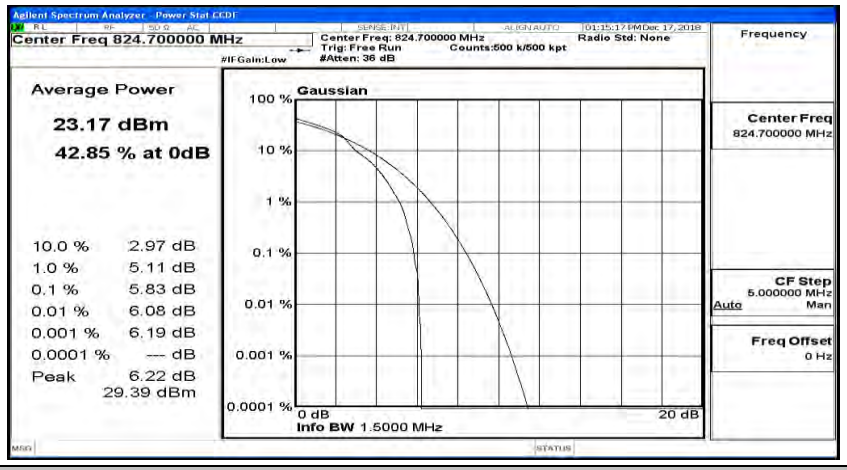
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



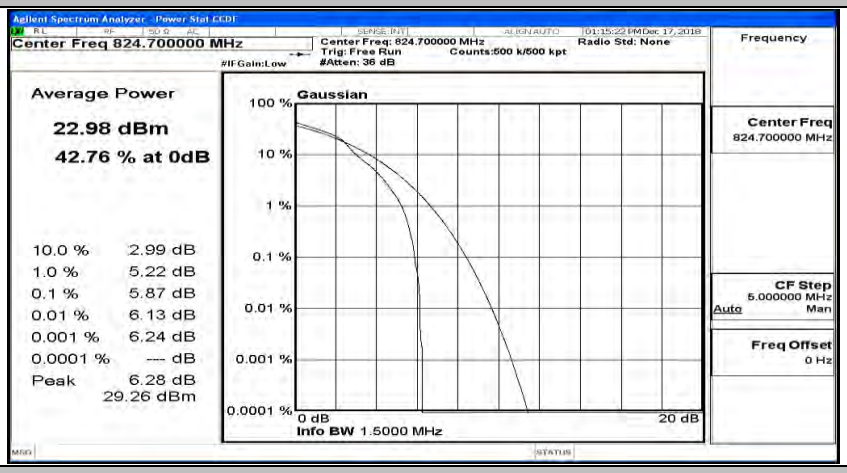
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



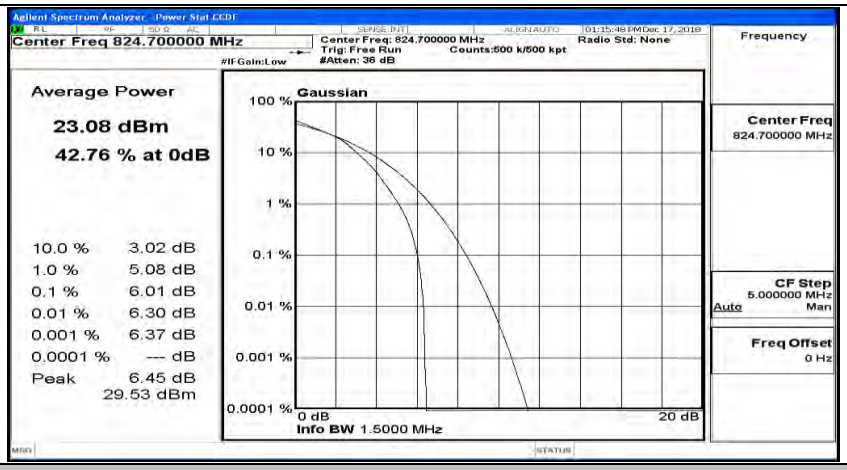
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



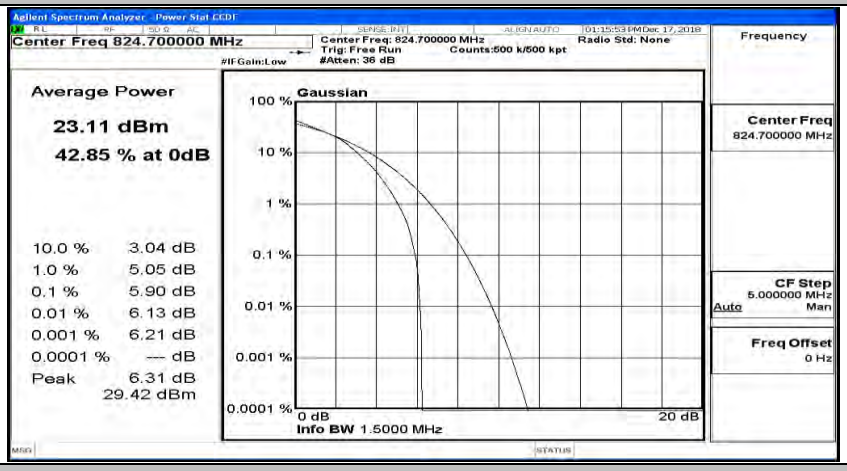
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



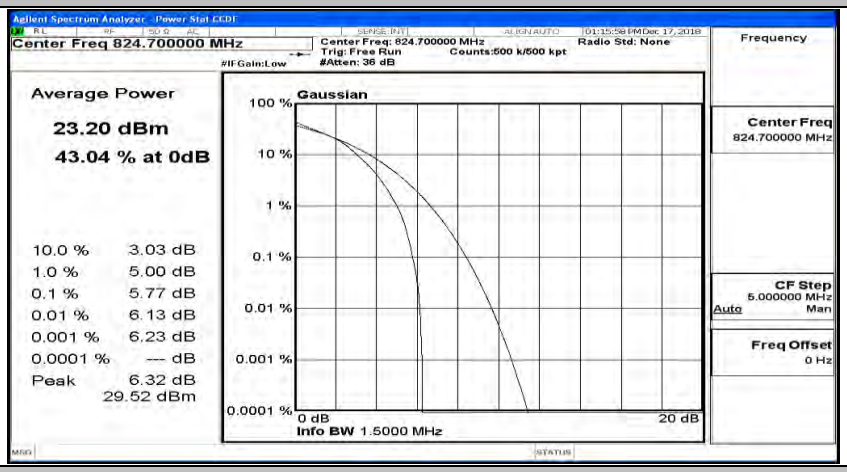
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



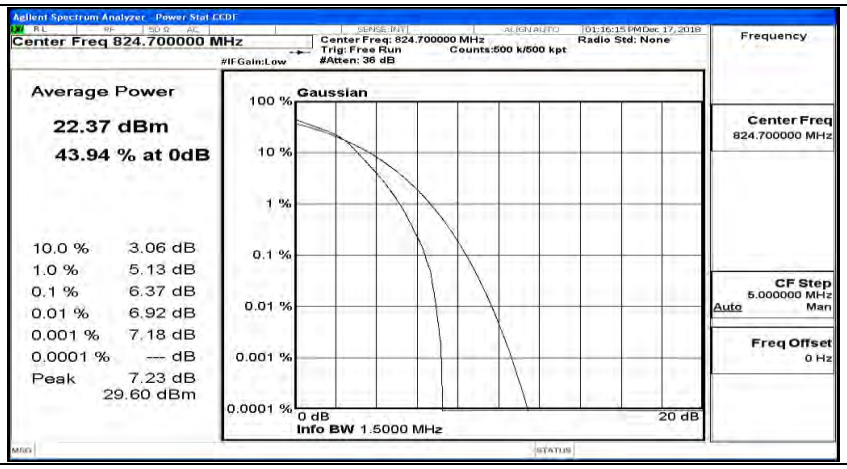
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



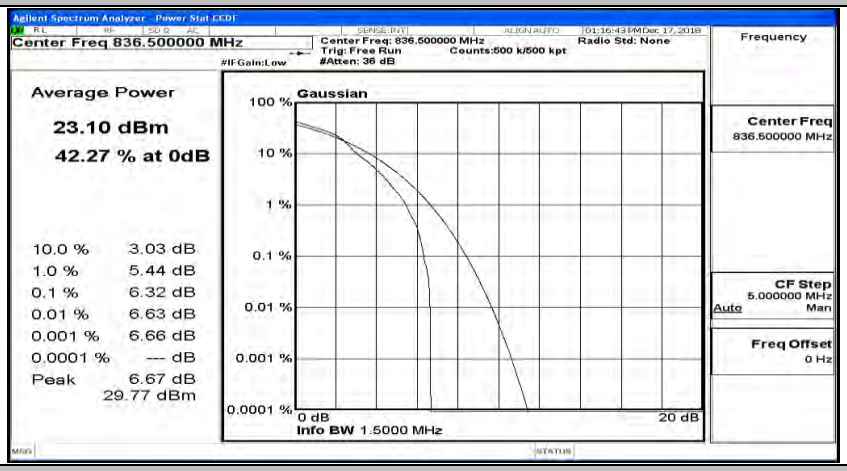
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



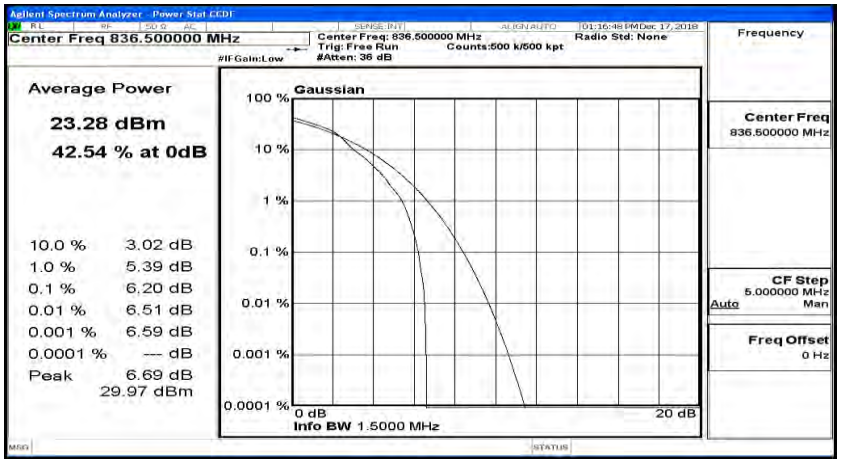
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



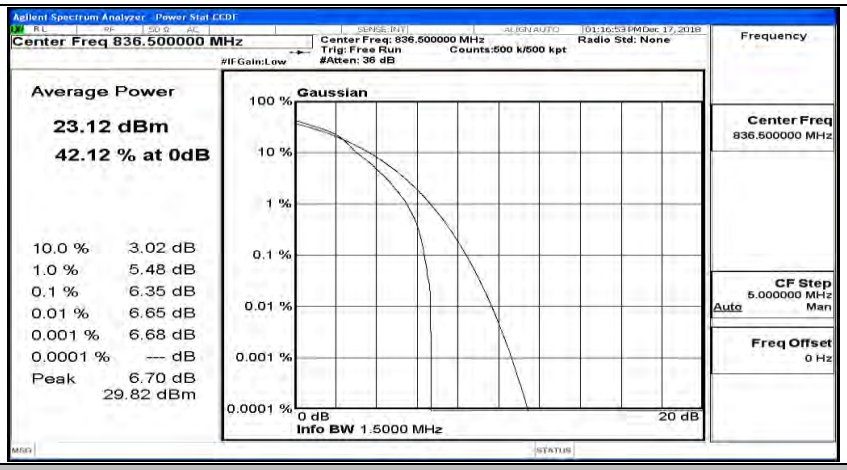
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



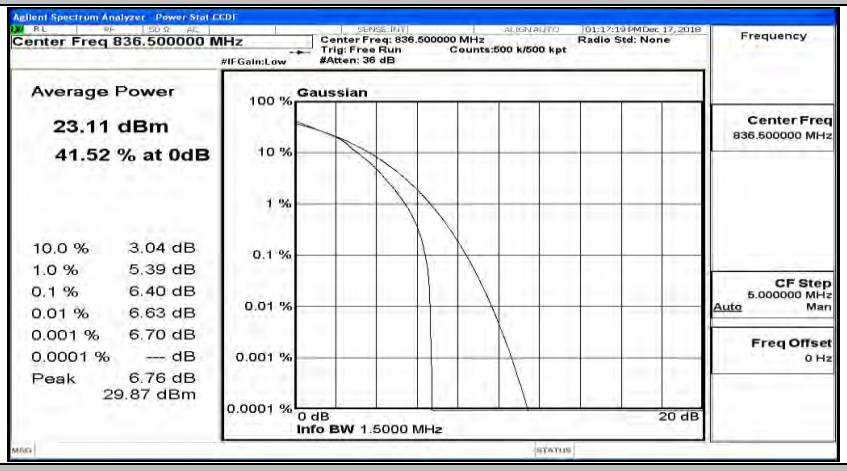
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



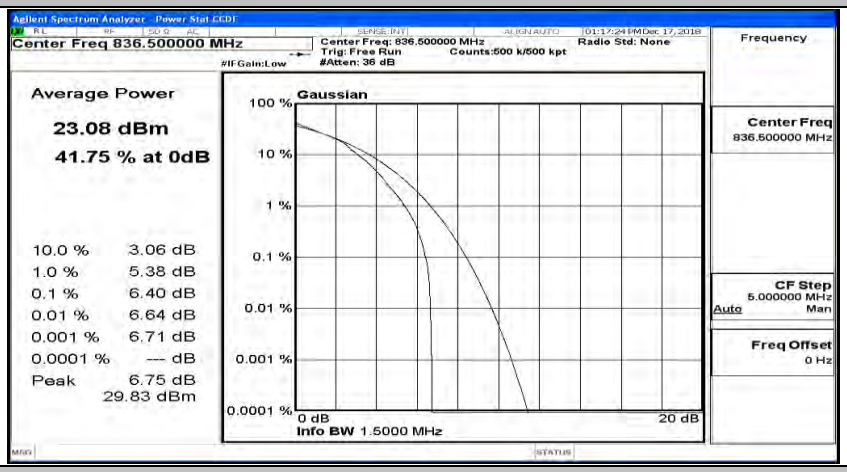
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



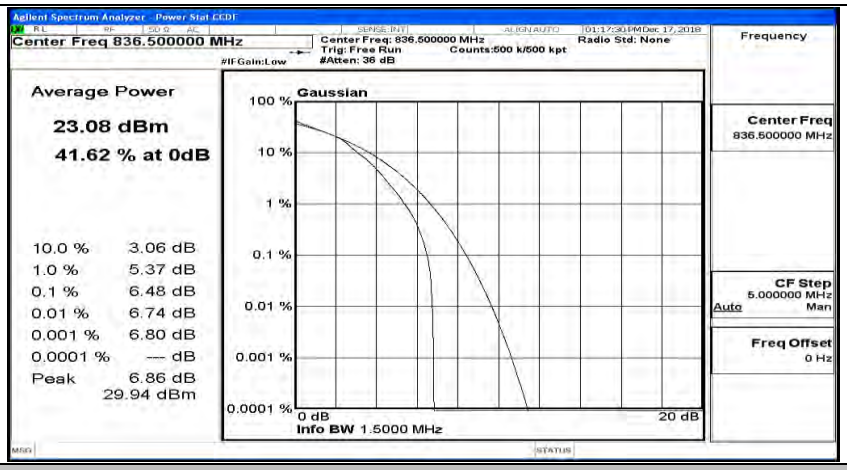
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



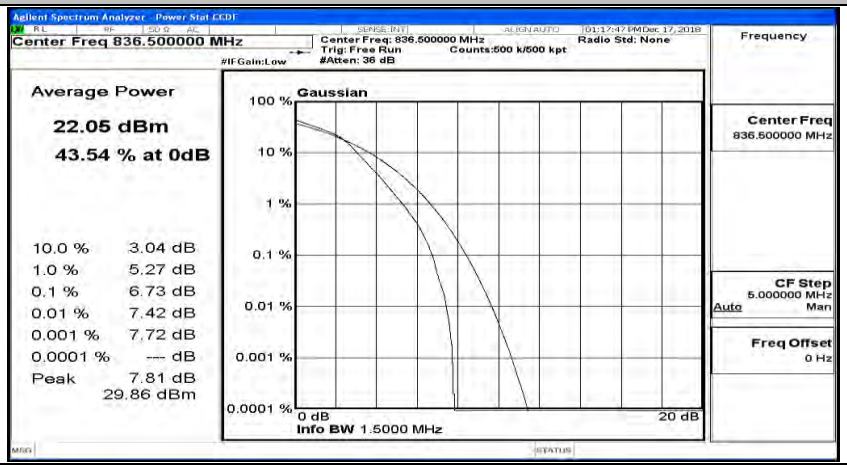
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



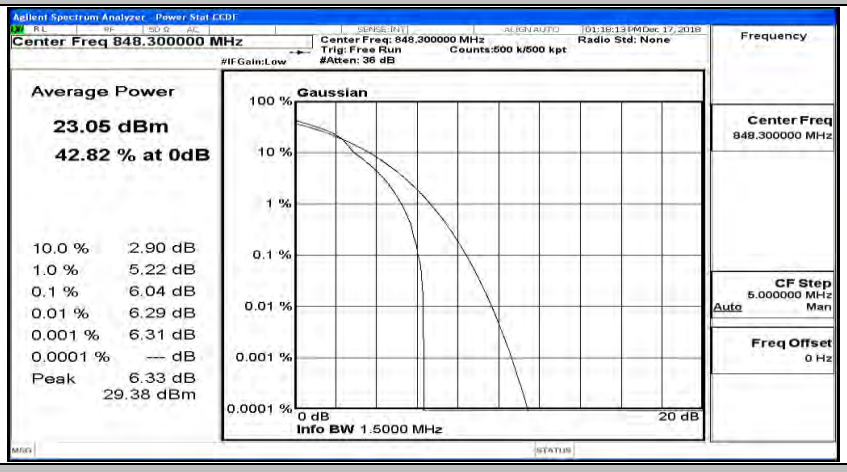
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



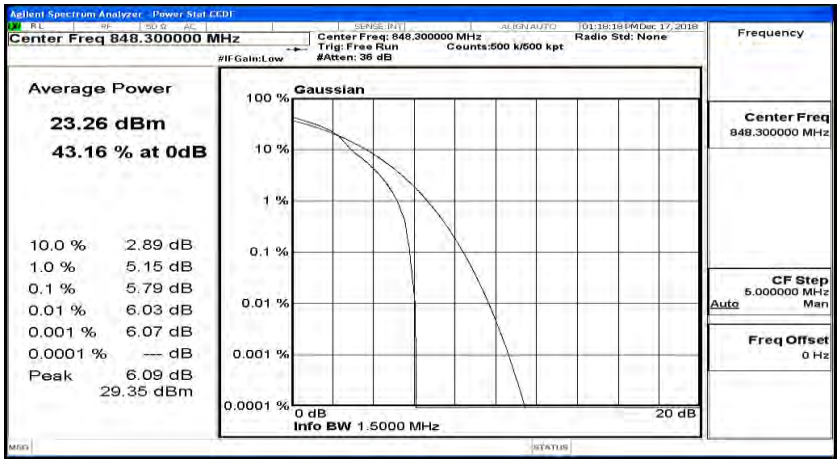
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



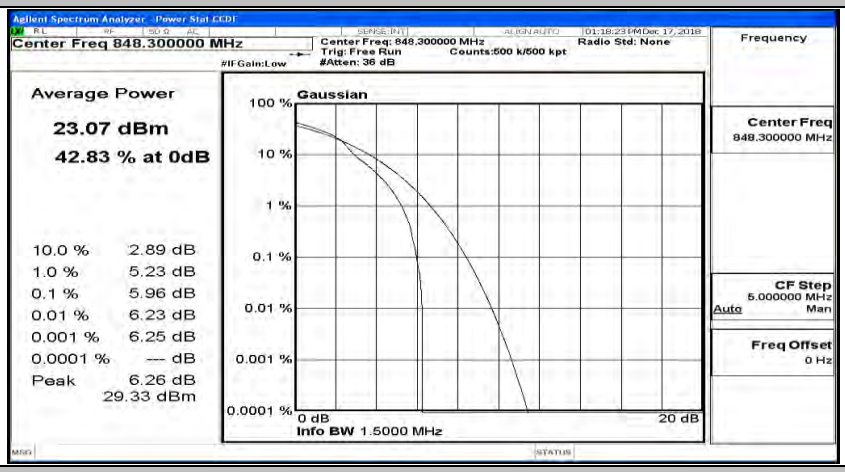
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



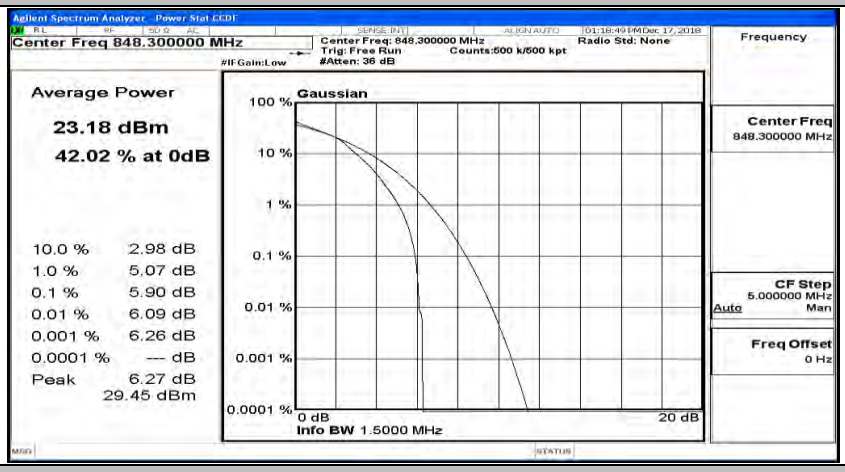
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



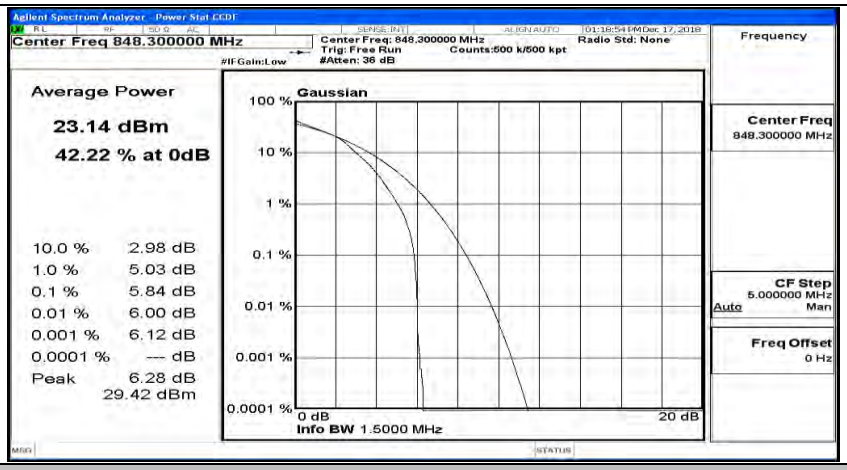
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



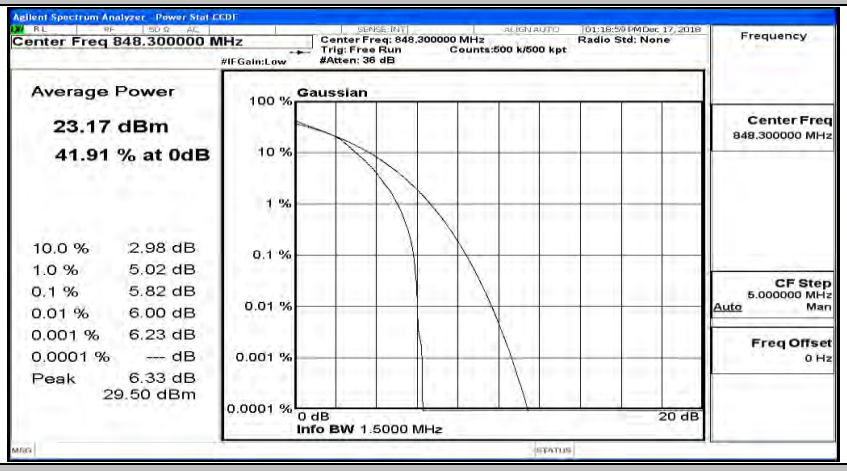
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



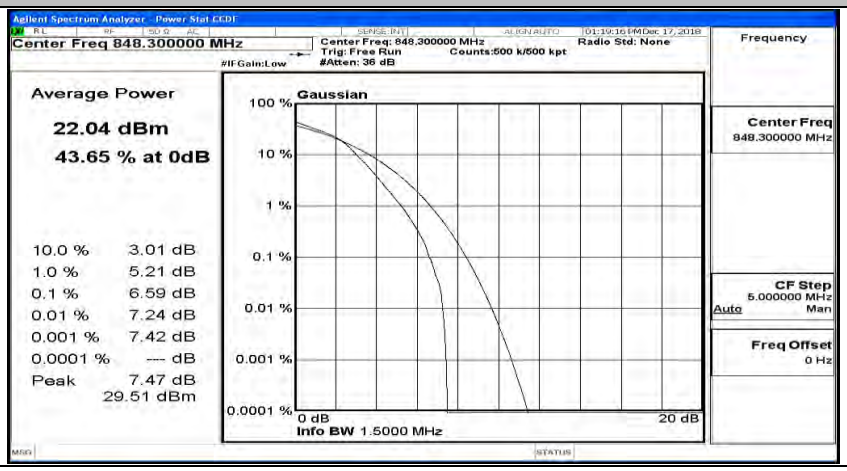
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

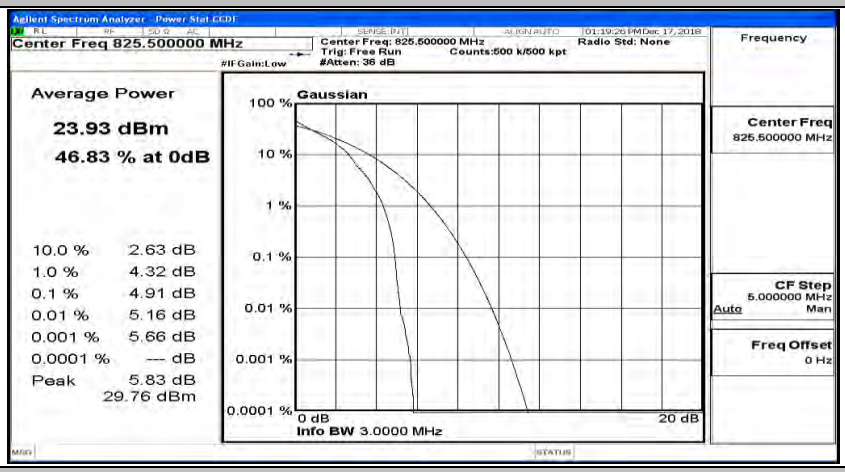


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

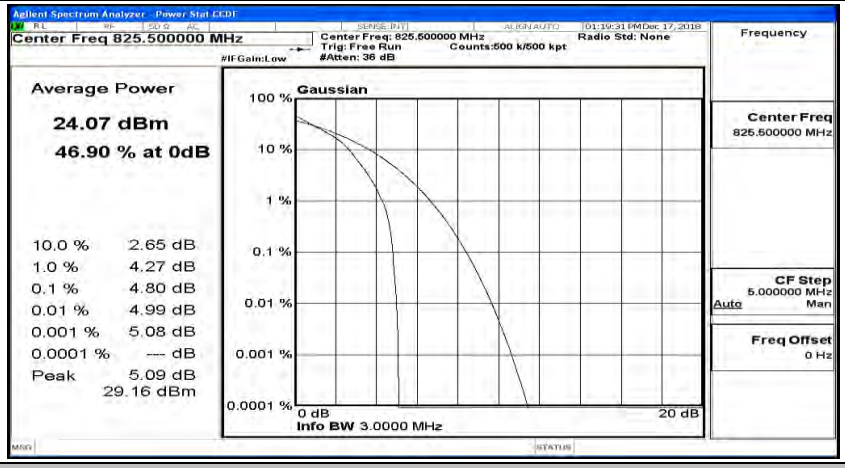


Channel Bandwidth: 3 MHz

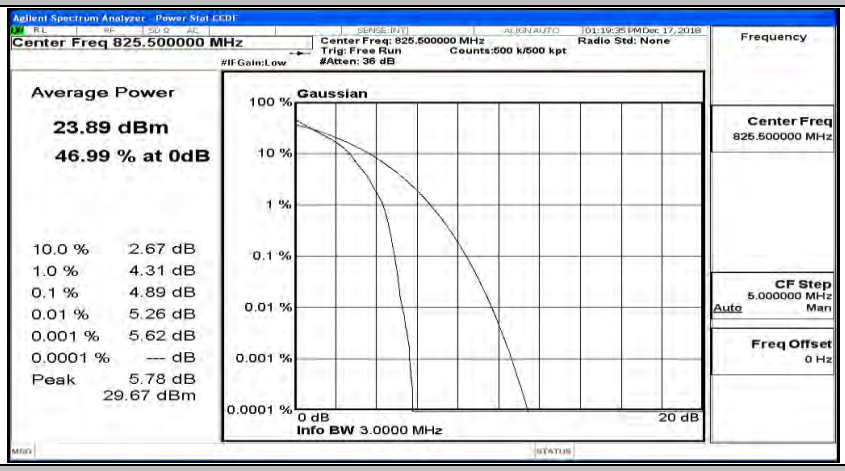
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



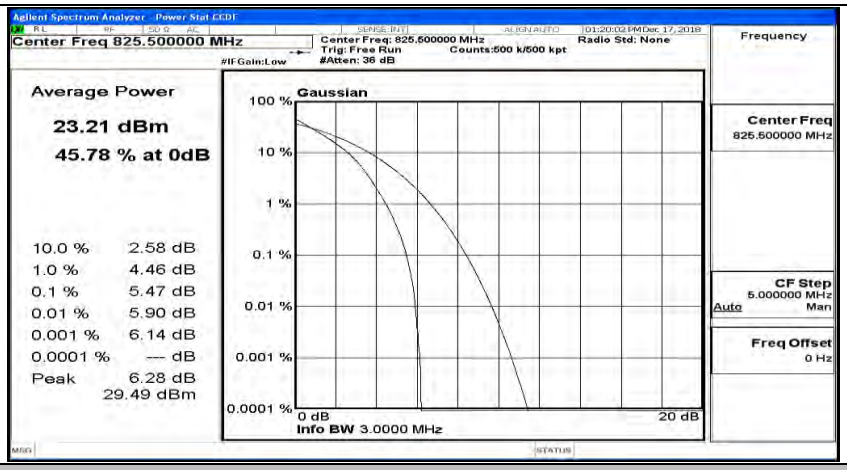
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



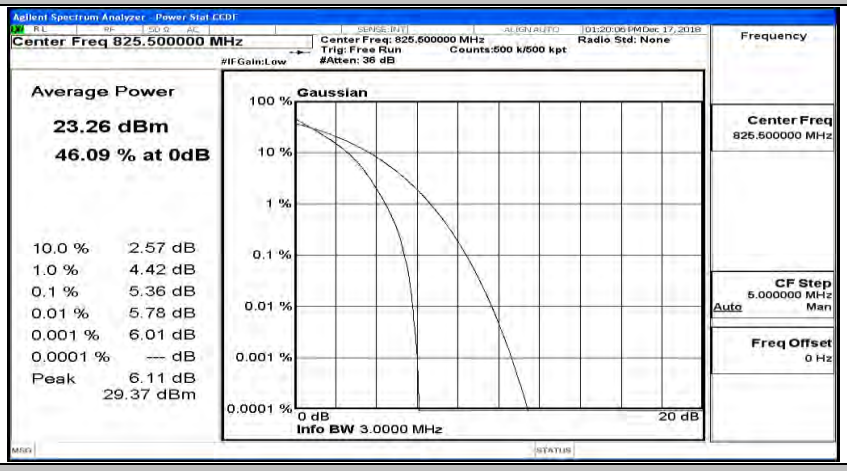
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



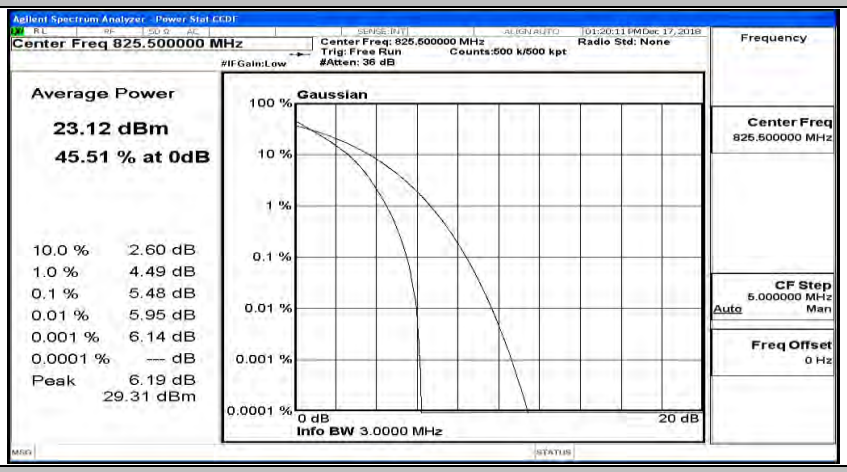
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



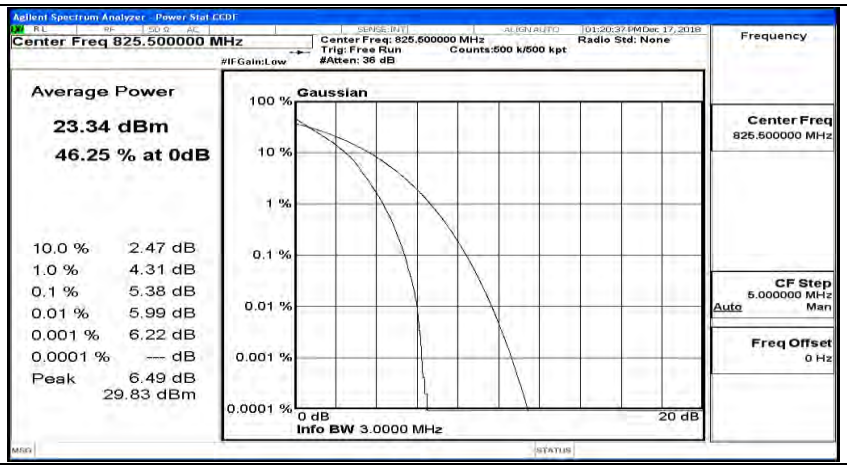
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



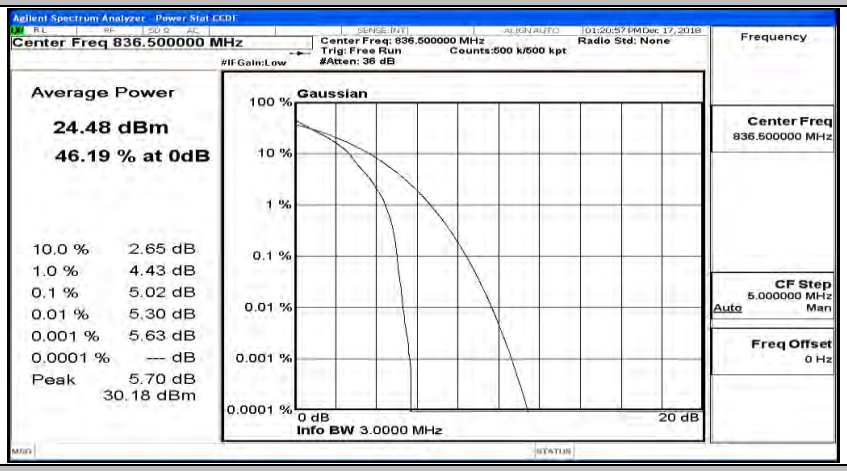
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



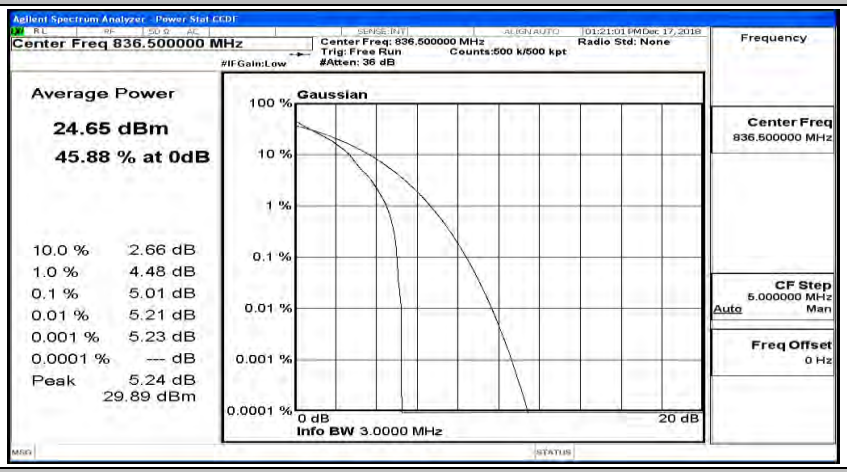
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



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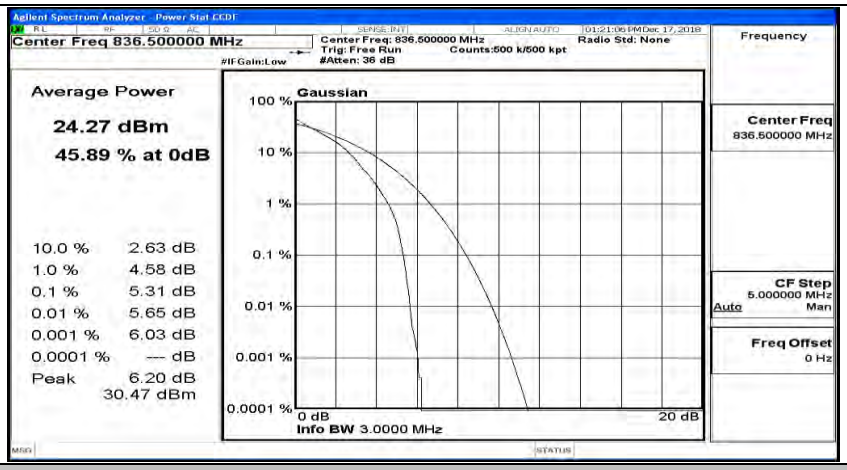
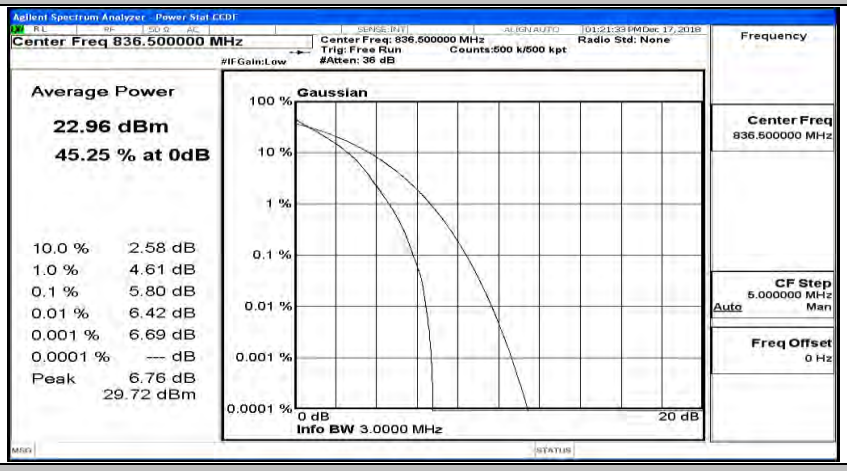
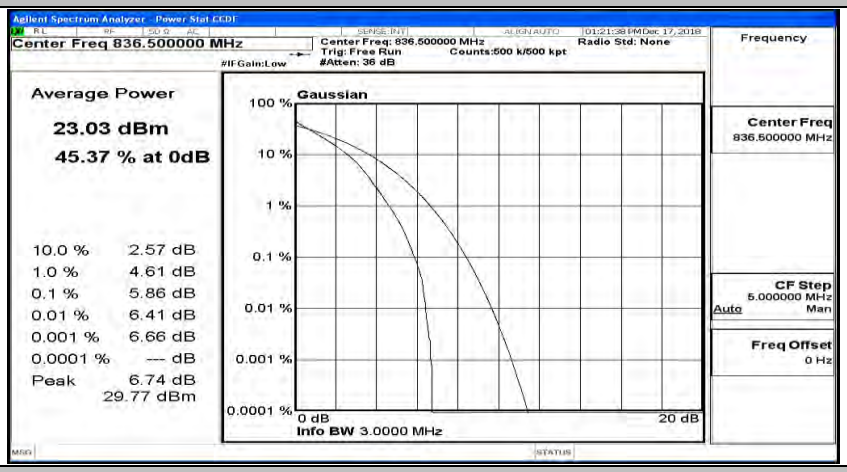


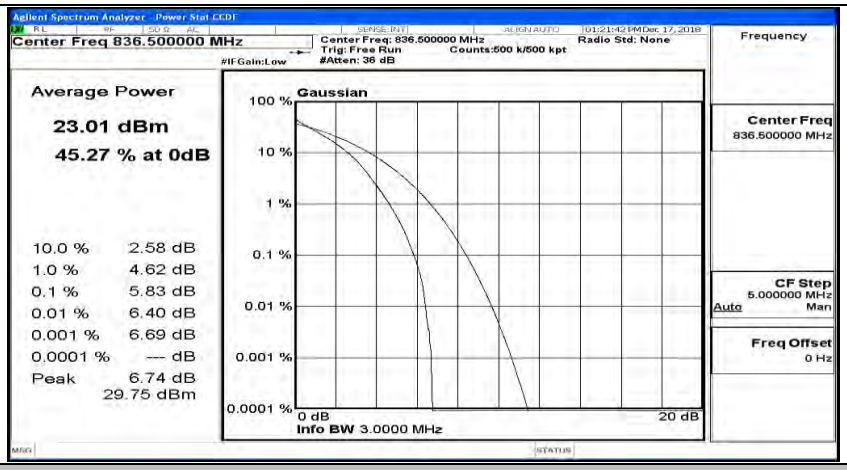
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



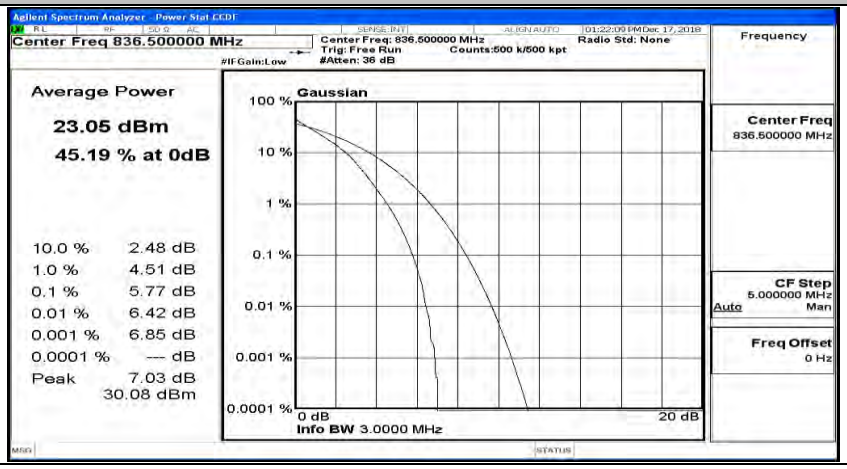
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



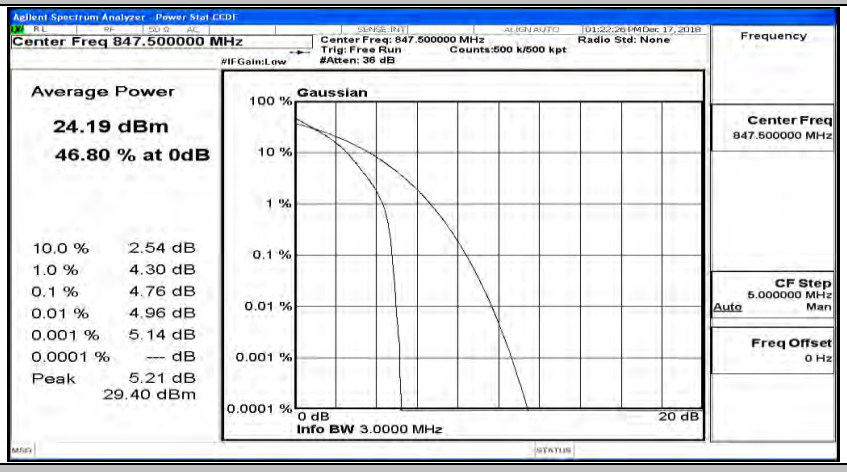
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



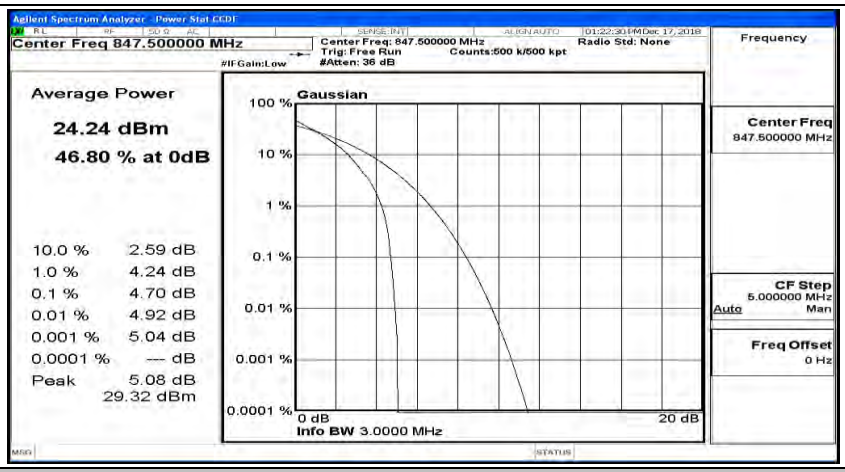
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



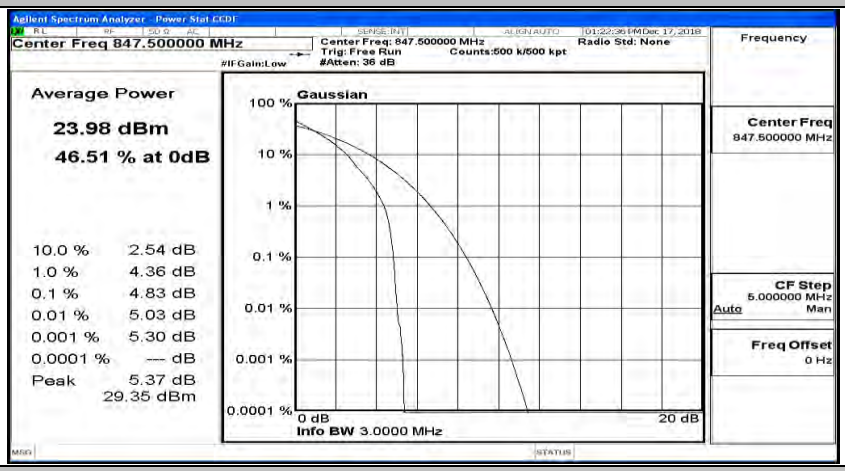
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



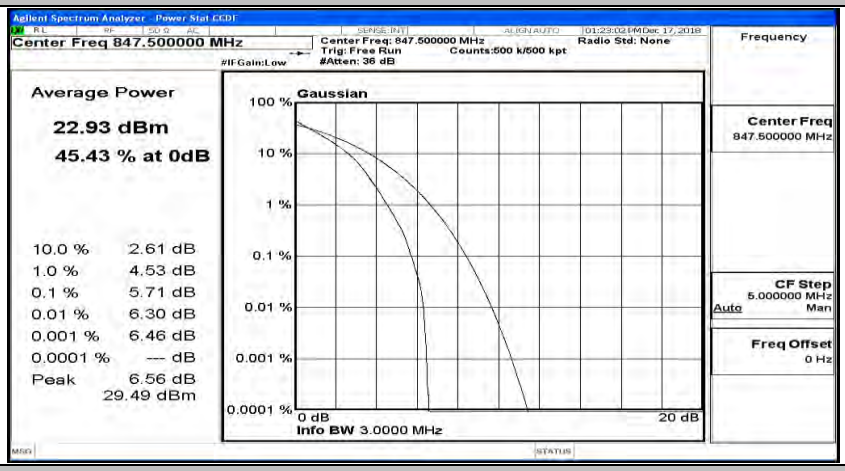
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#7



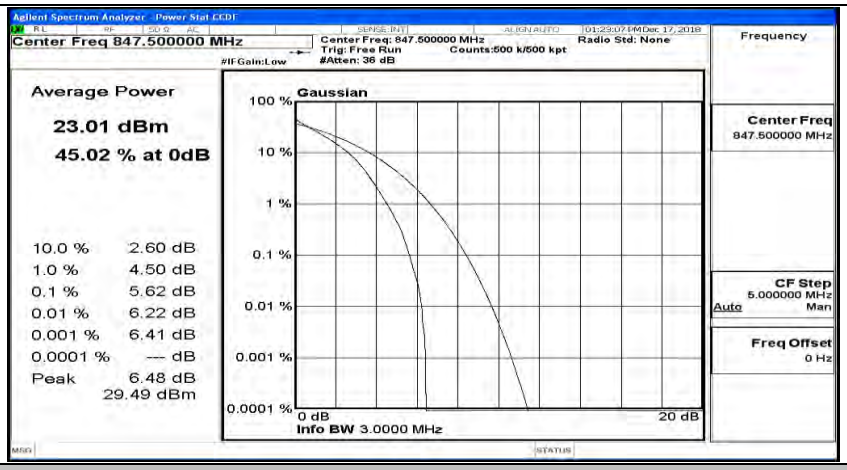
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#14



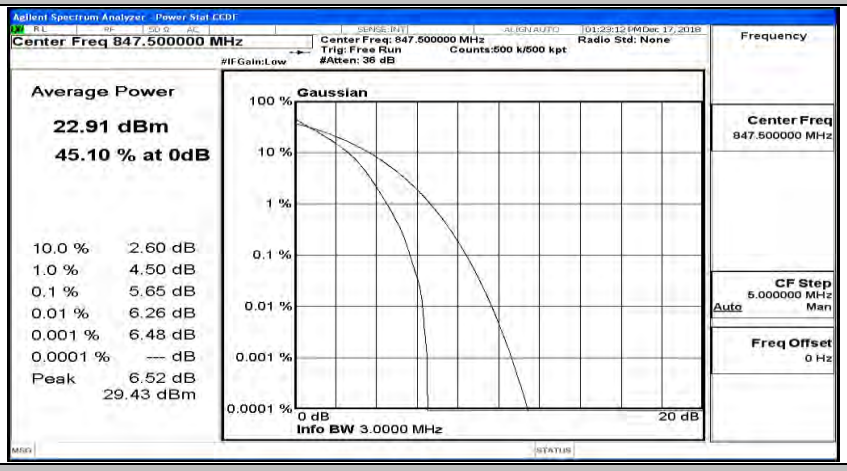
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



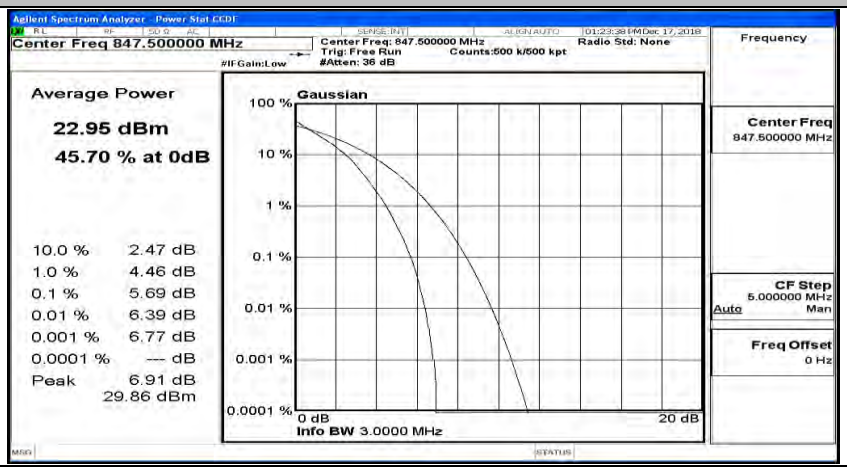
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



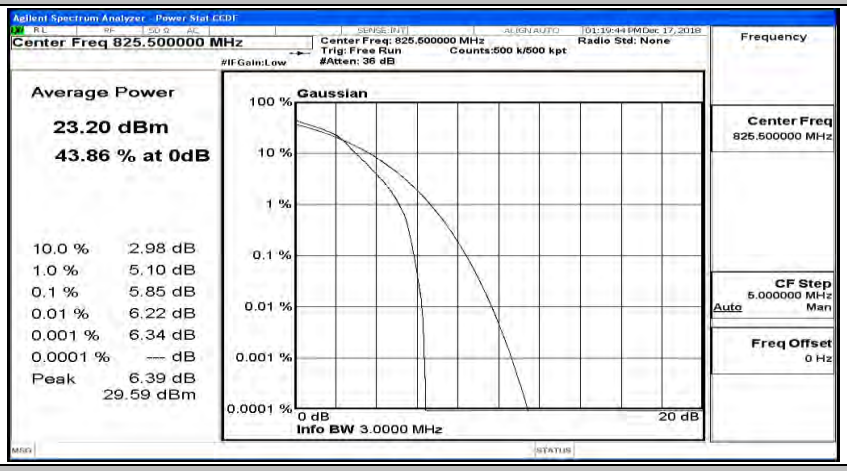
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



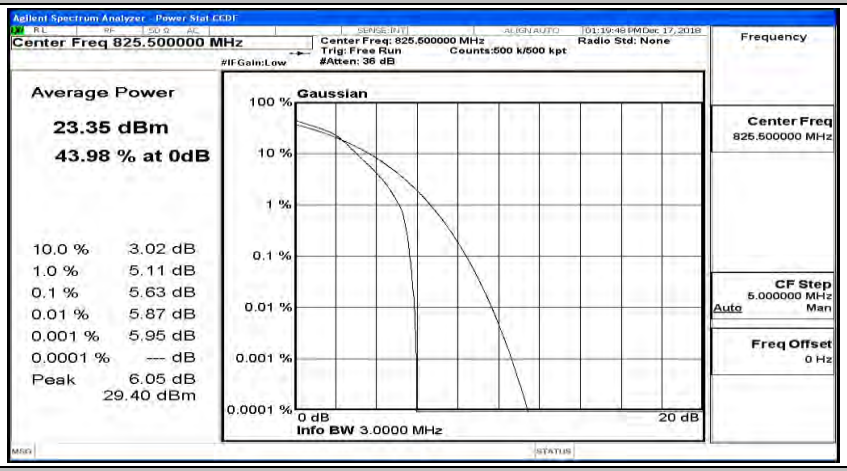
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



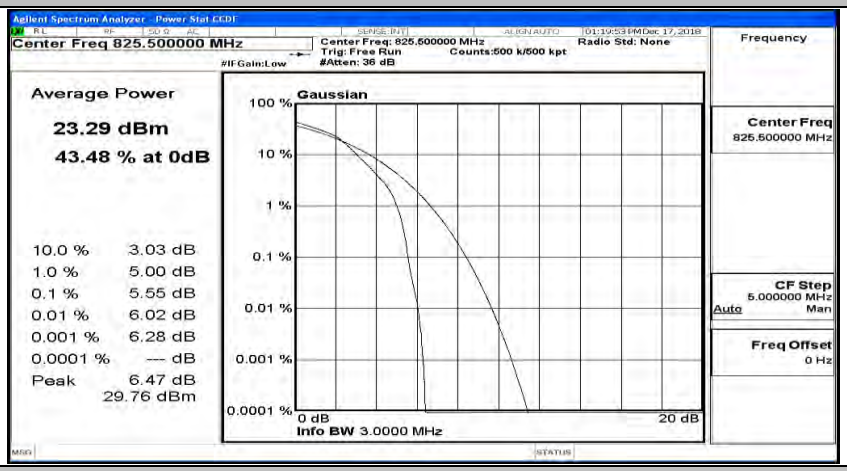
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



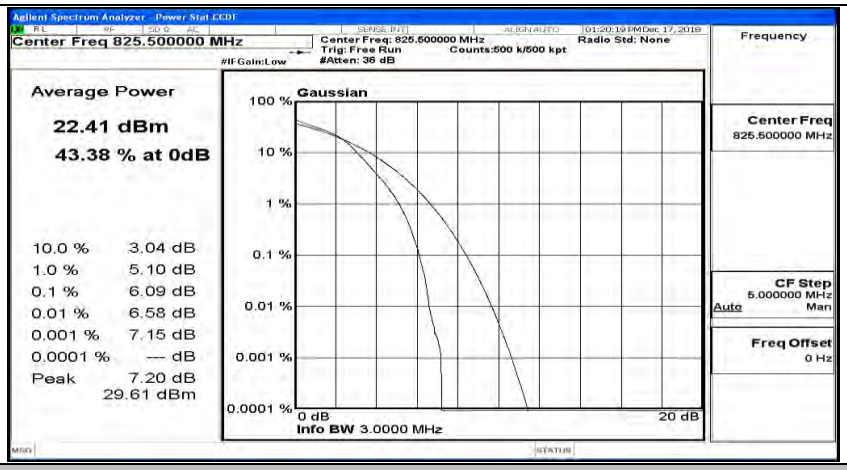
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



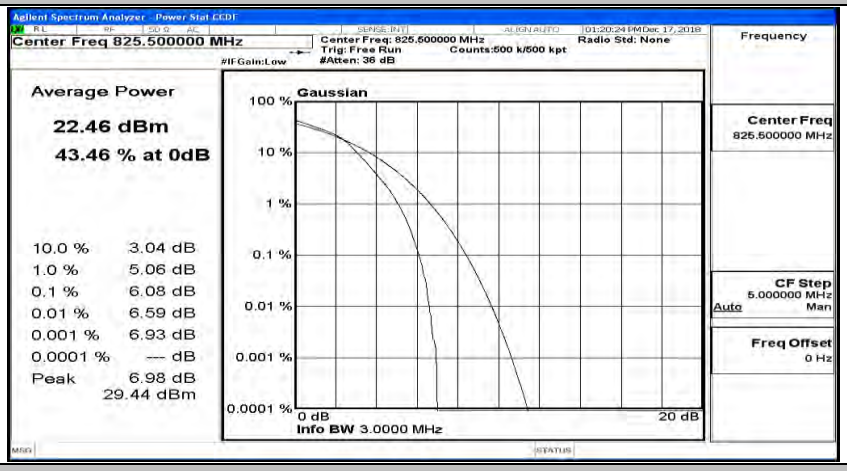
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



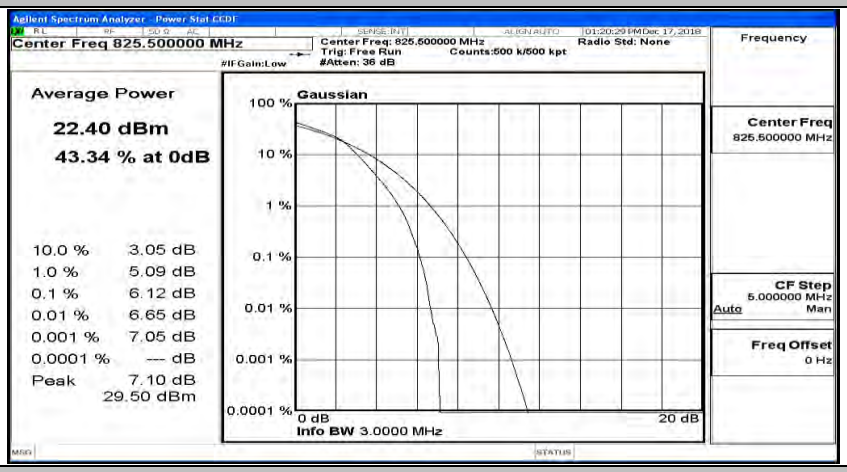
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



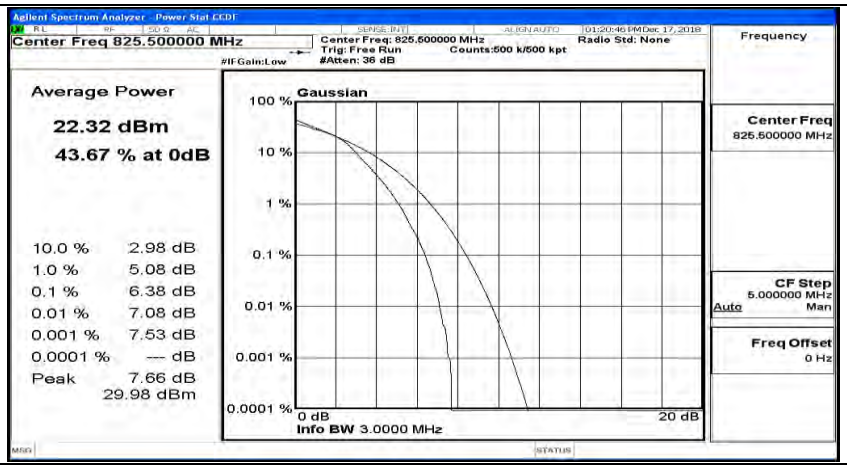
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#4



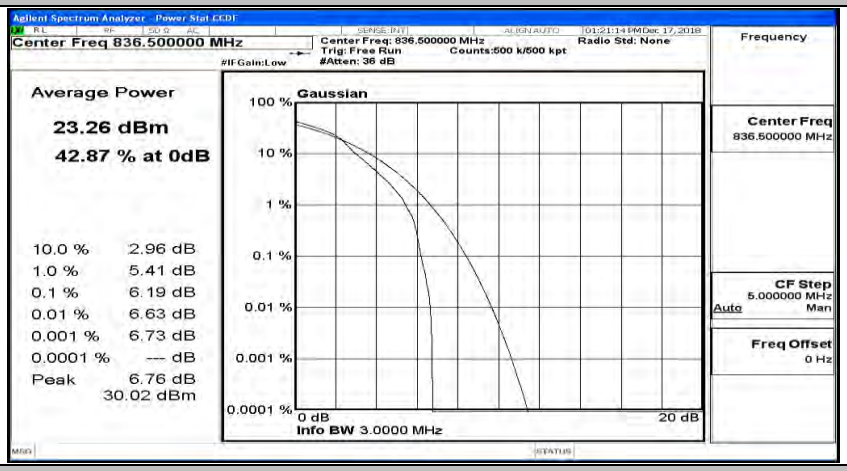
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



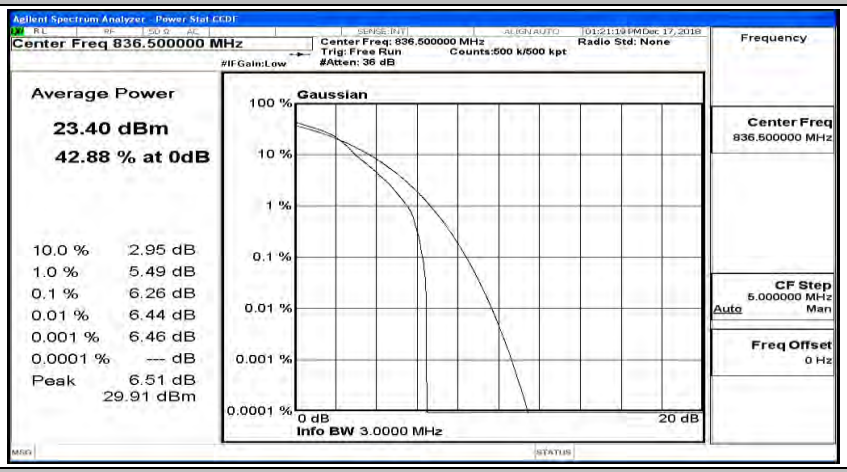
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0



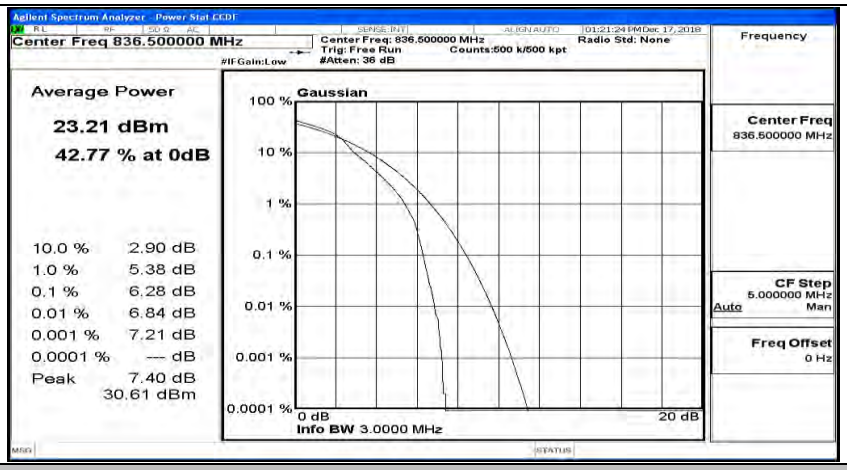
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



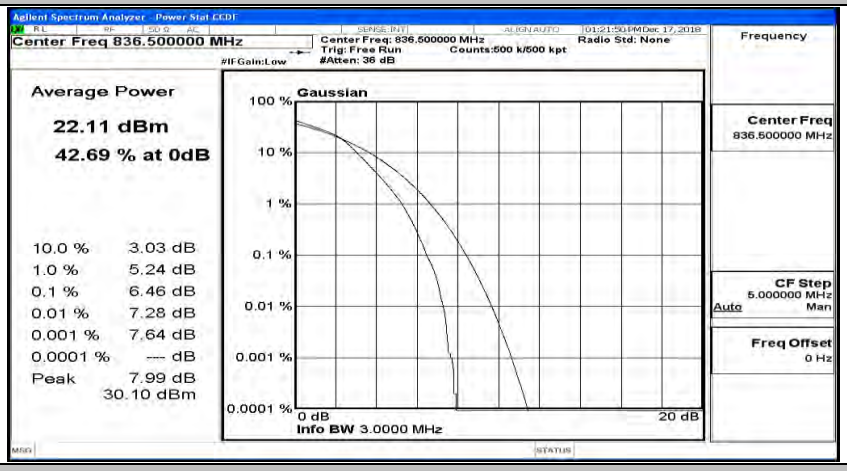
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



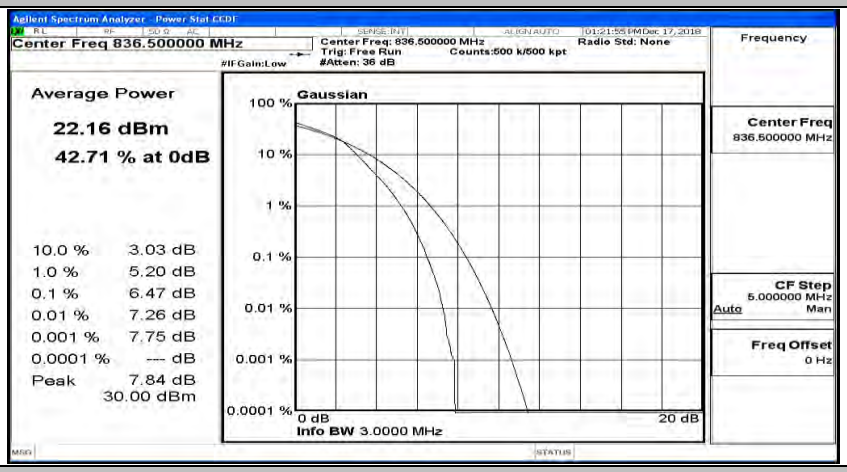
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#14



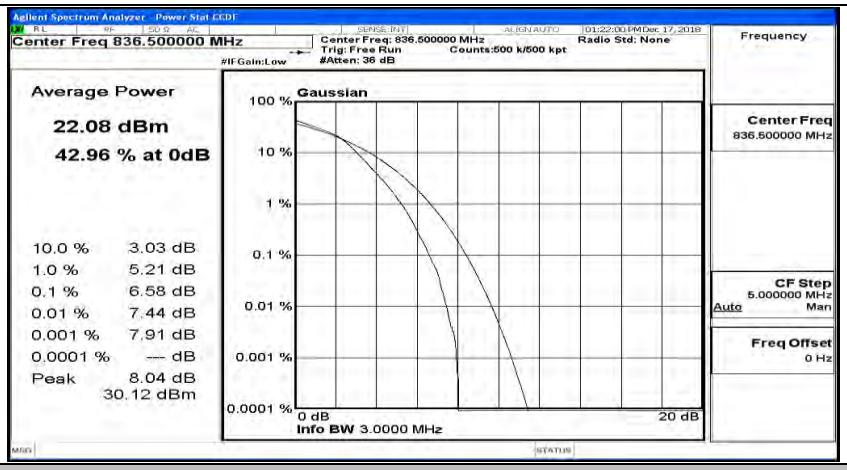
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#0



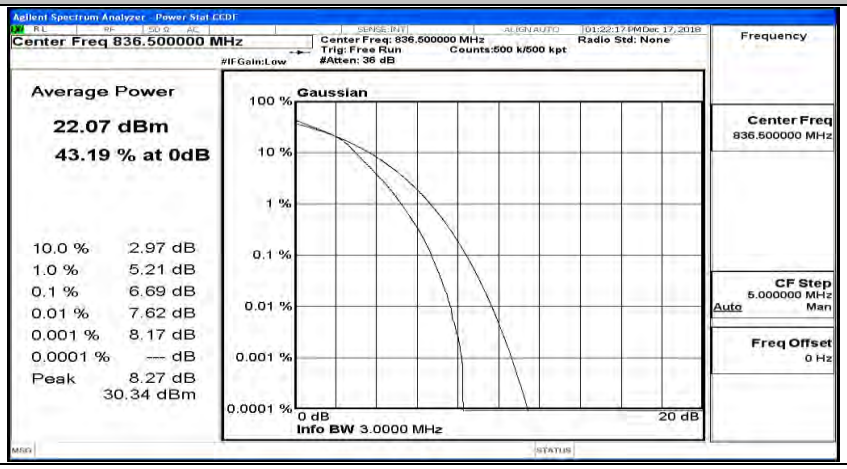
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4



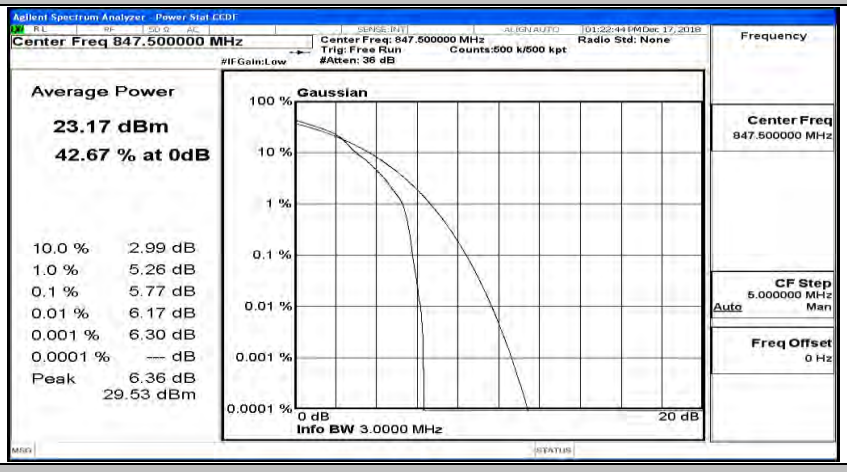
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0



(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0



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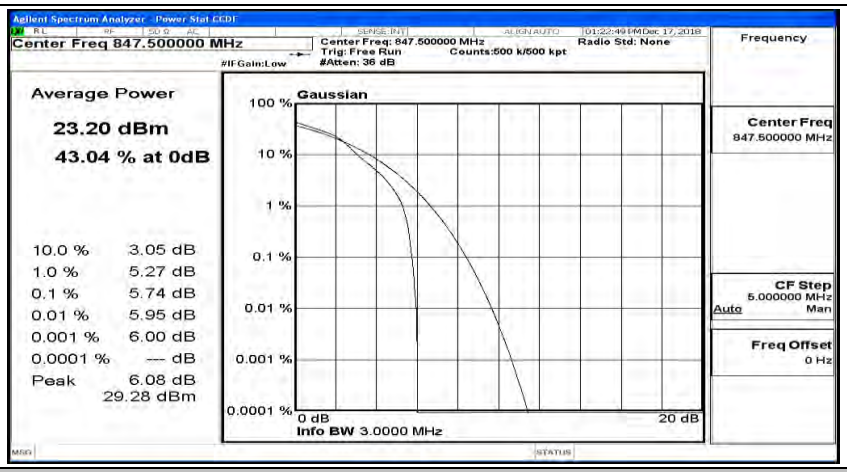
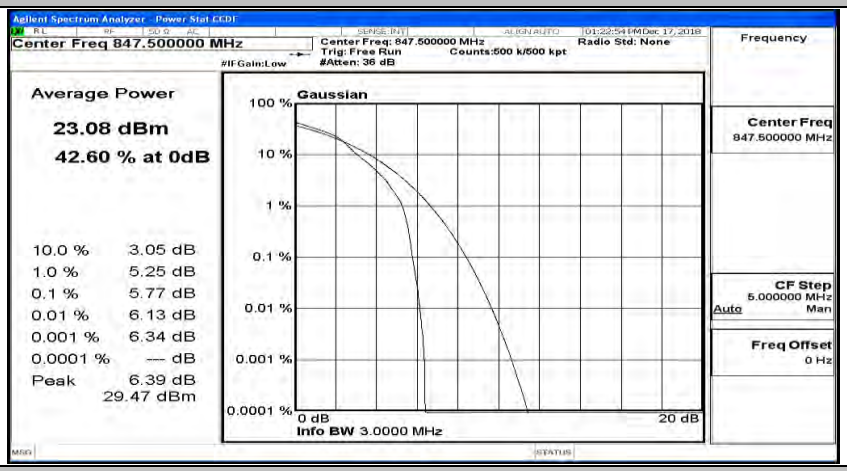
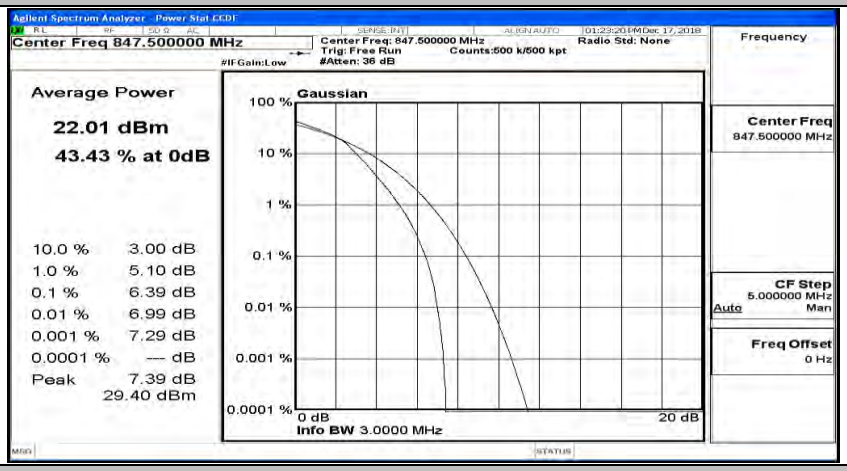


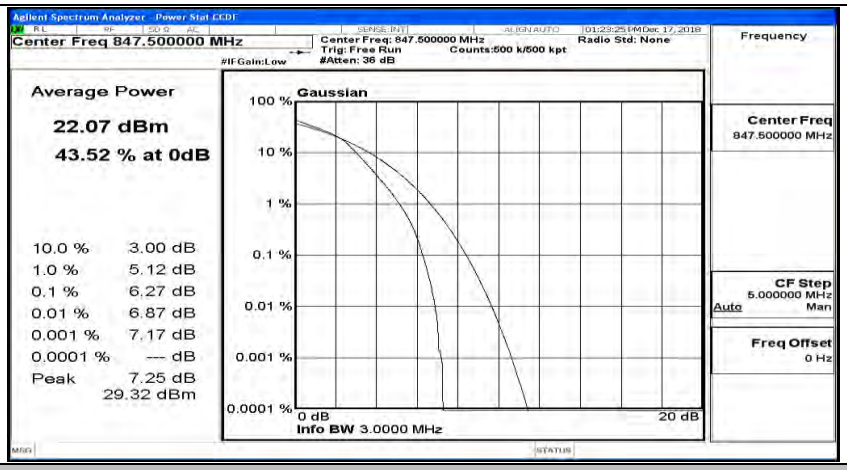
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#14



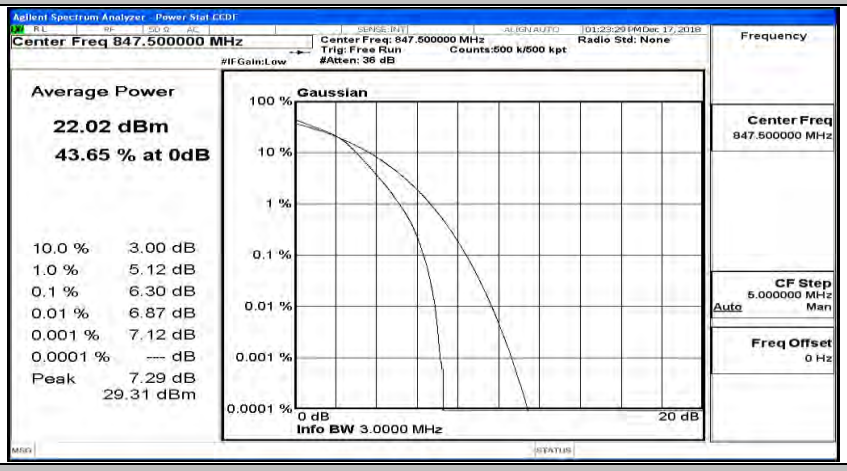
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



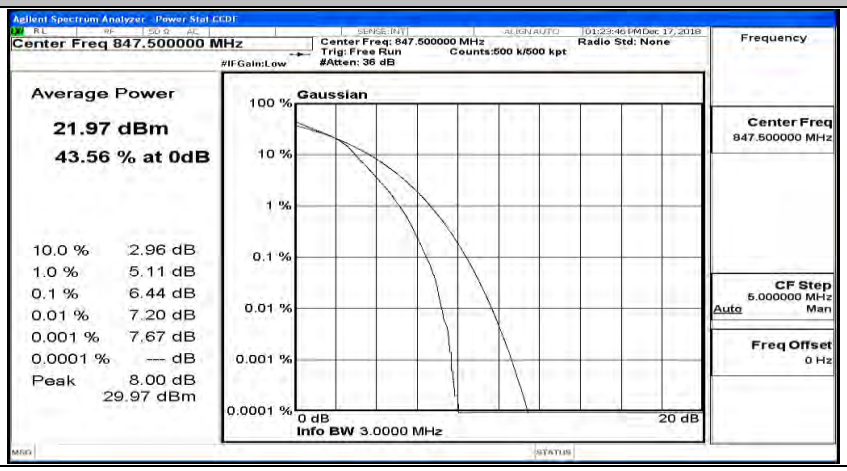
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

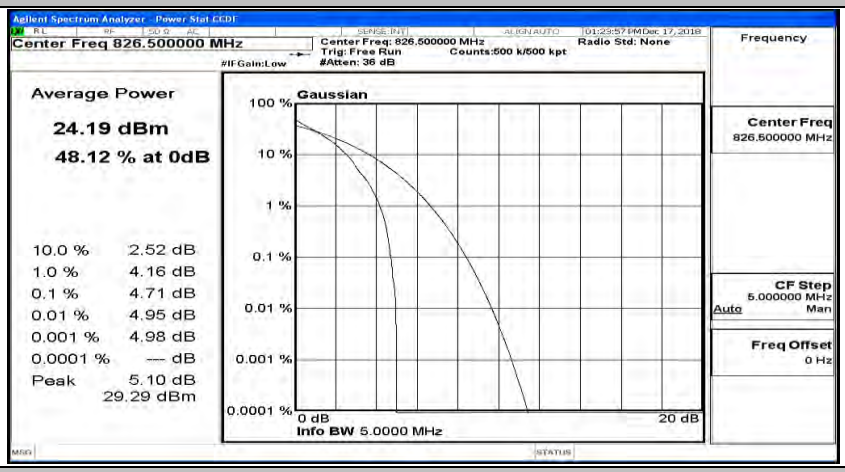


(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

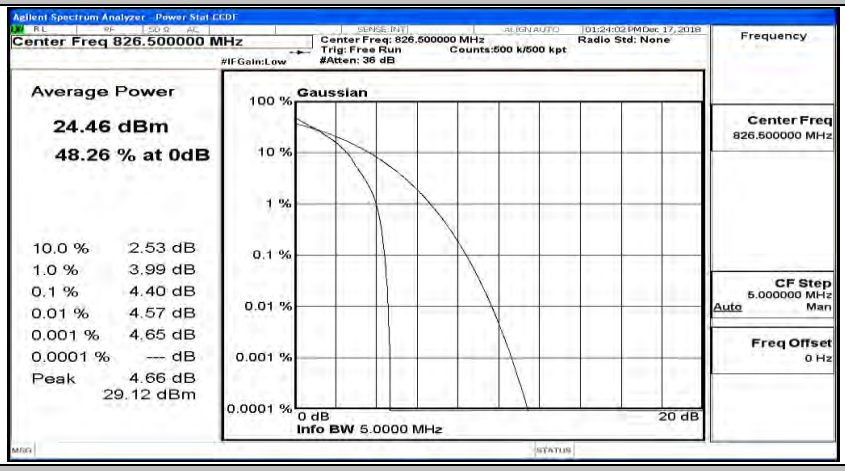


Channel Bandwidth: 5 MHz

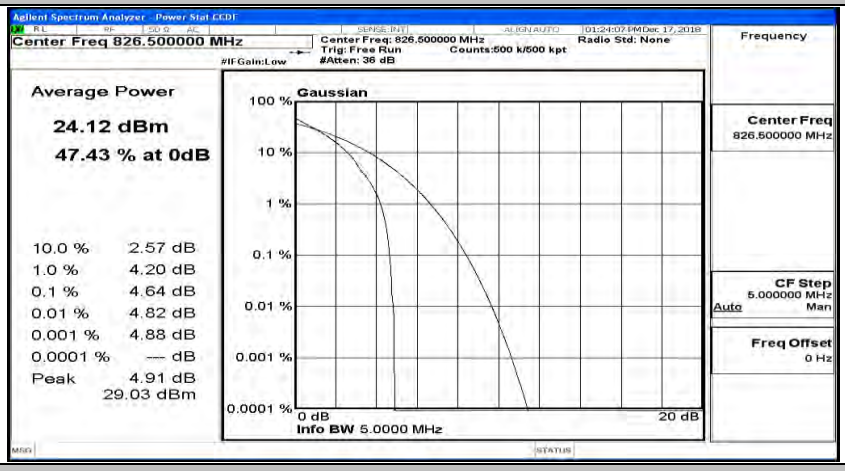
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



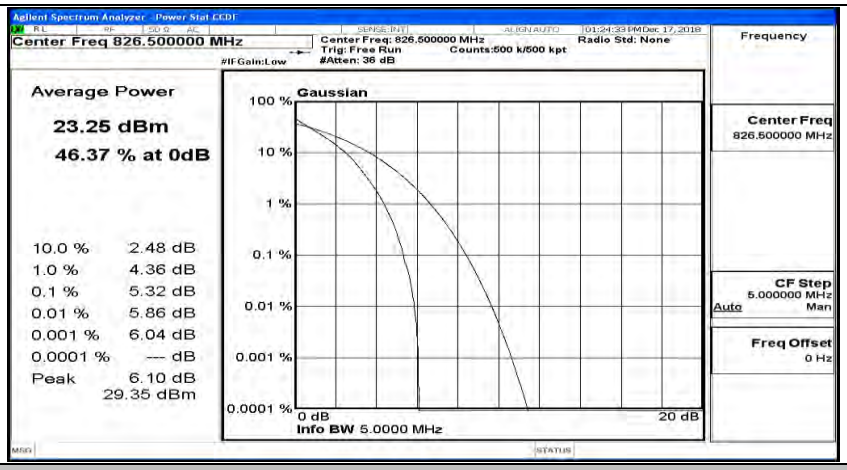
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



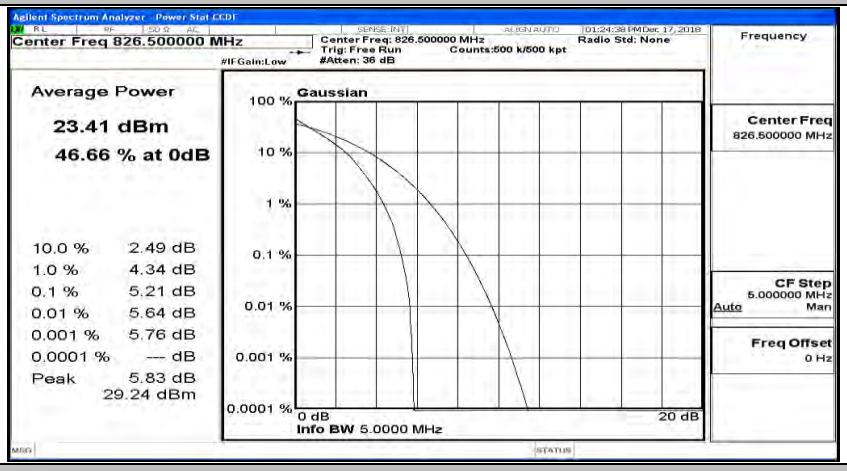
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



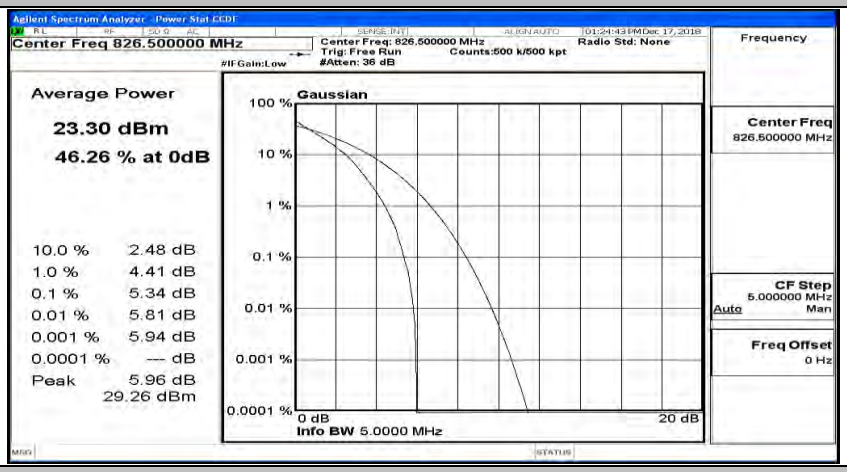
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



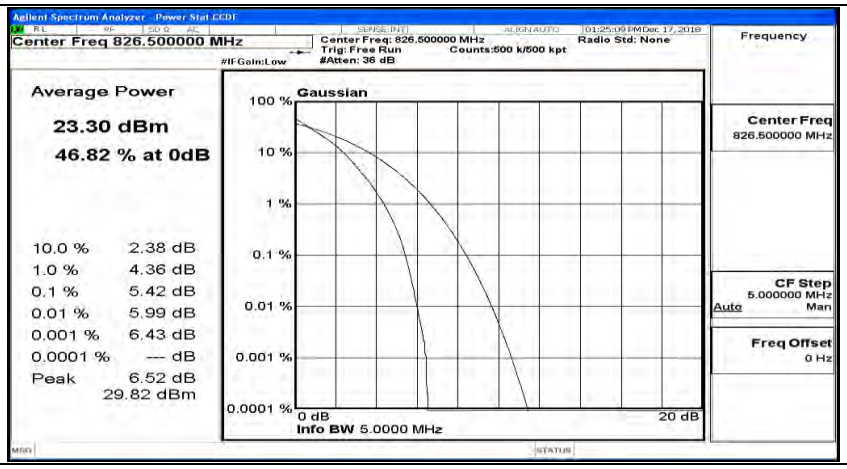
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



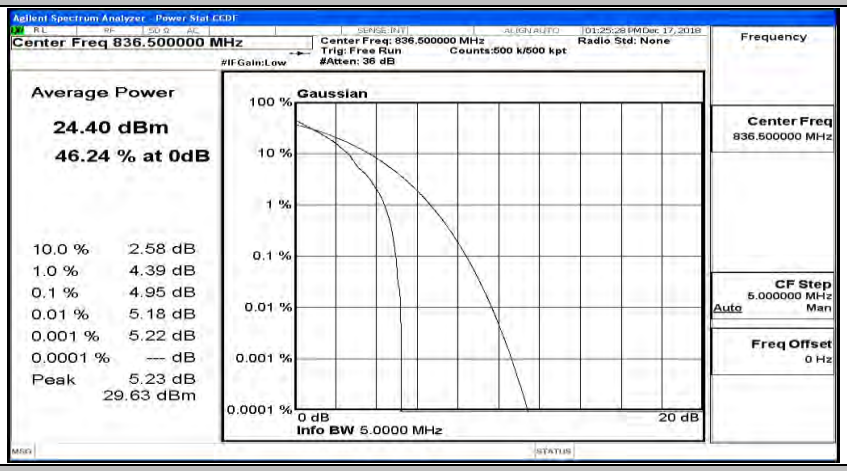
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



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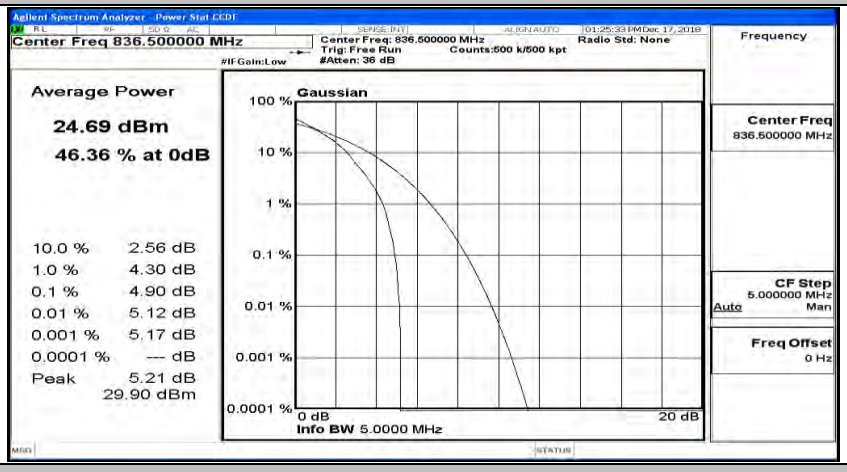
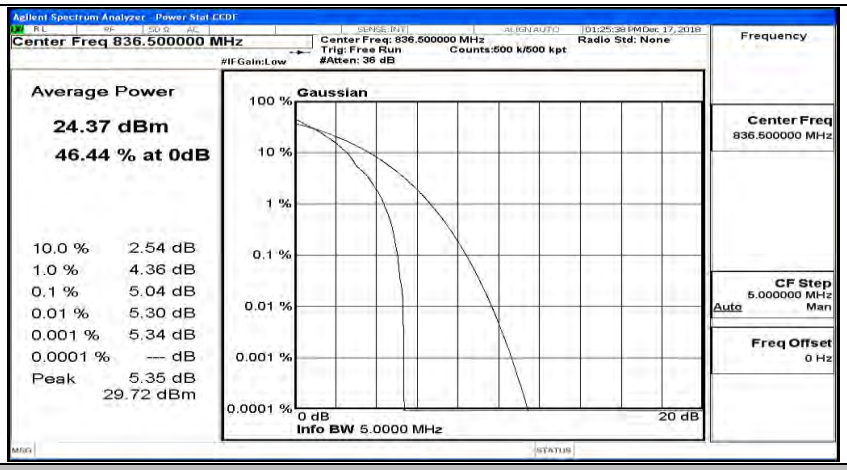
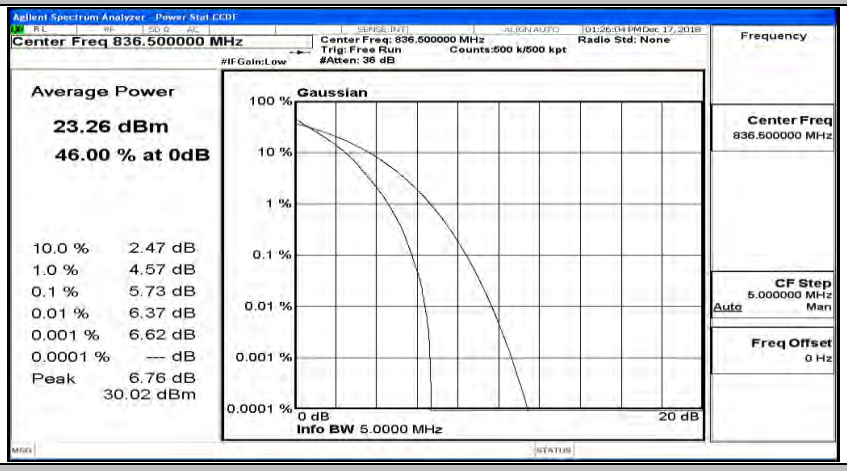


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24



(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



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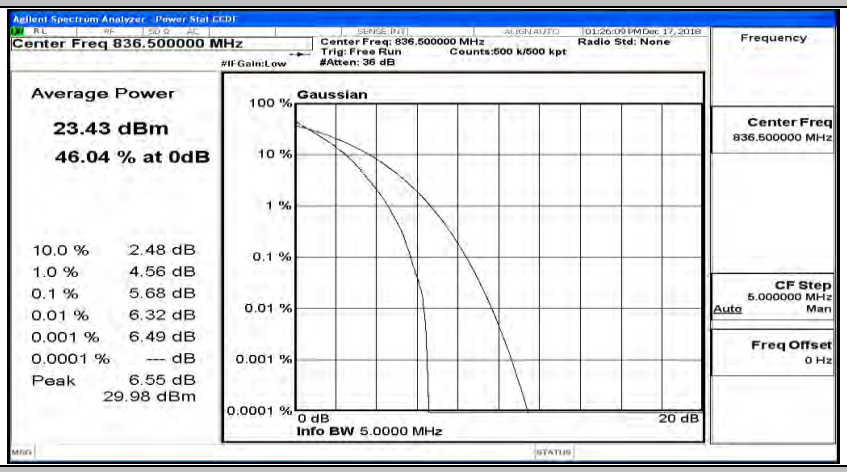
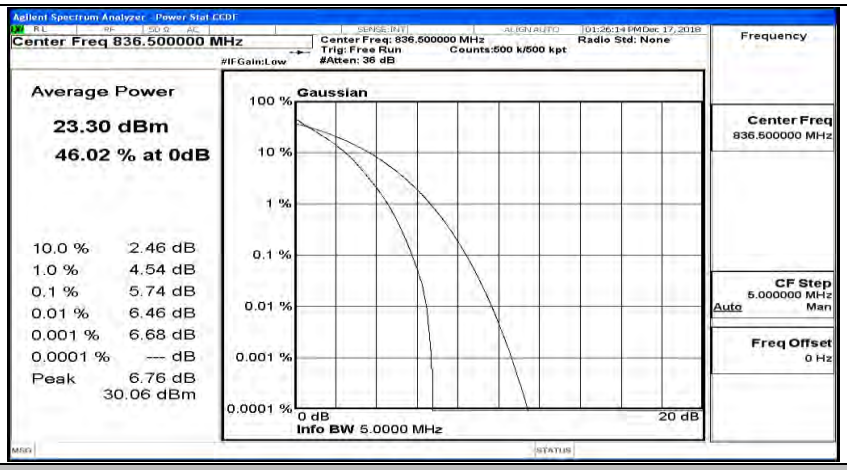
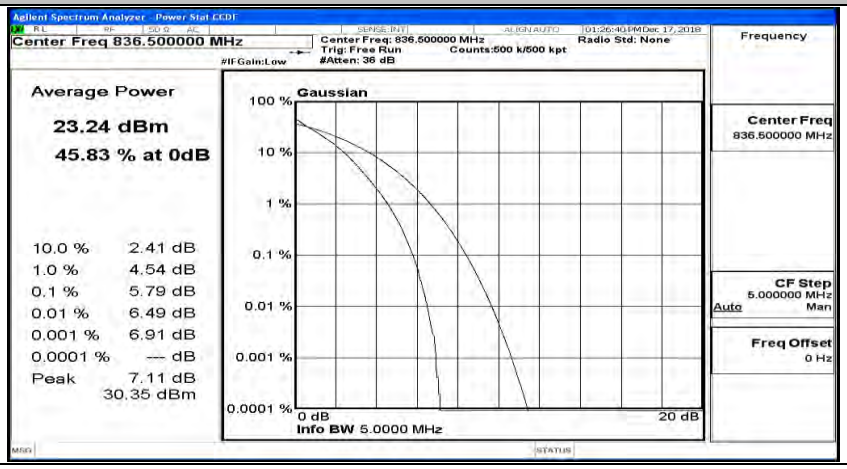


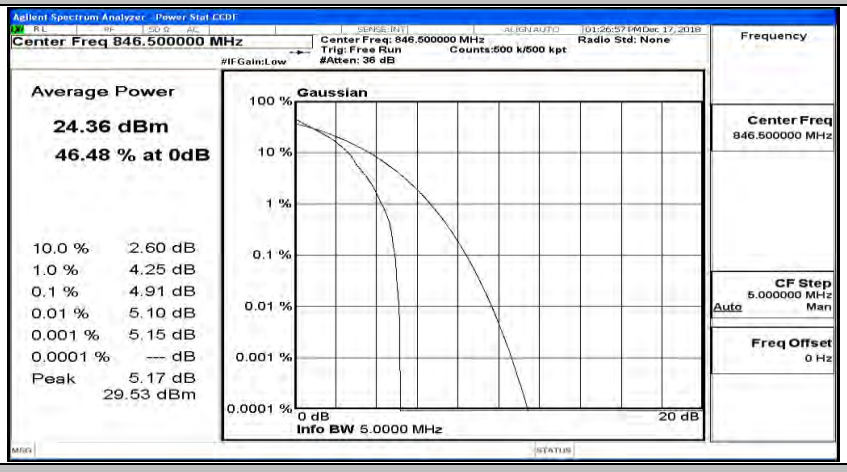
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



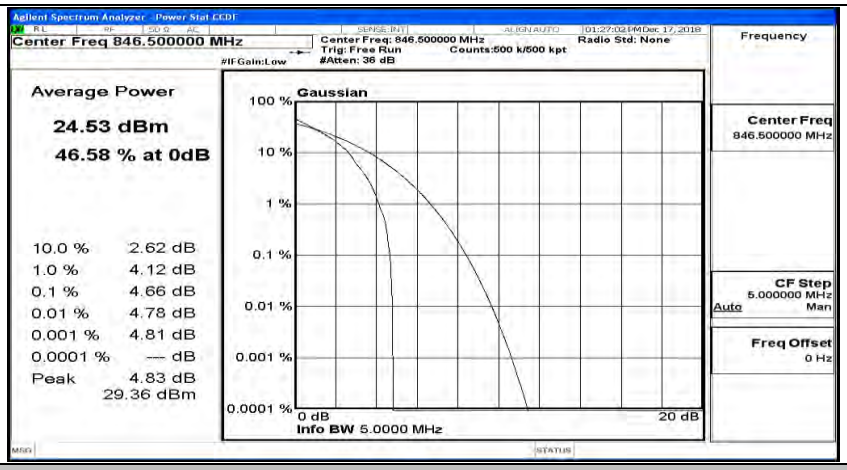
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



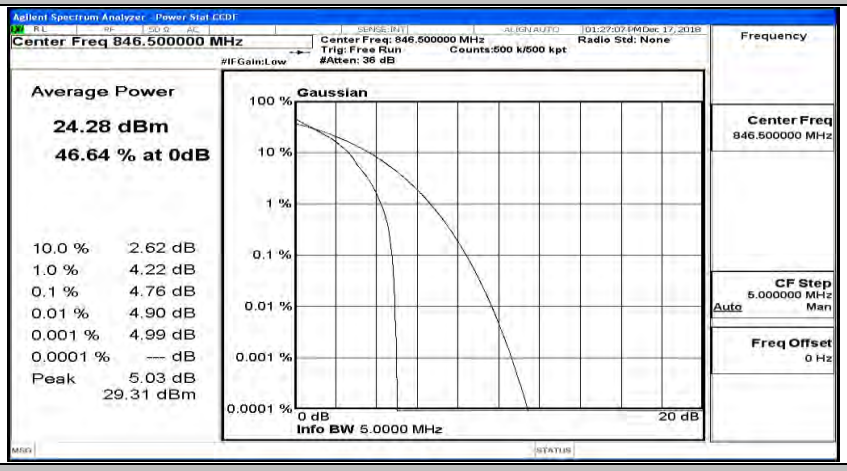
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



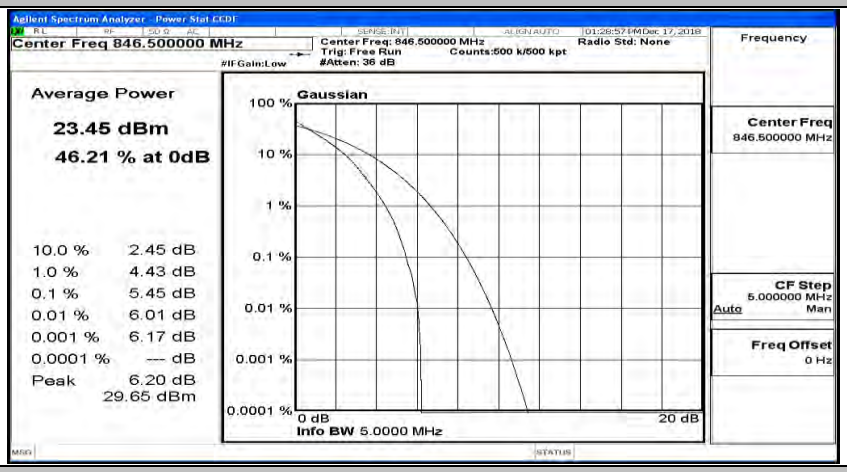
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



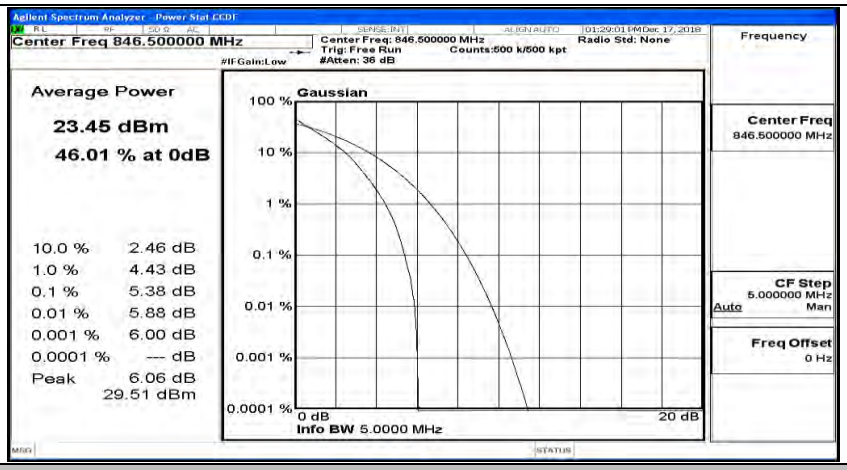
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



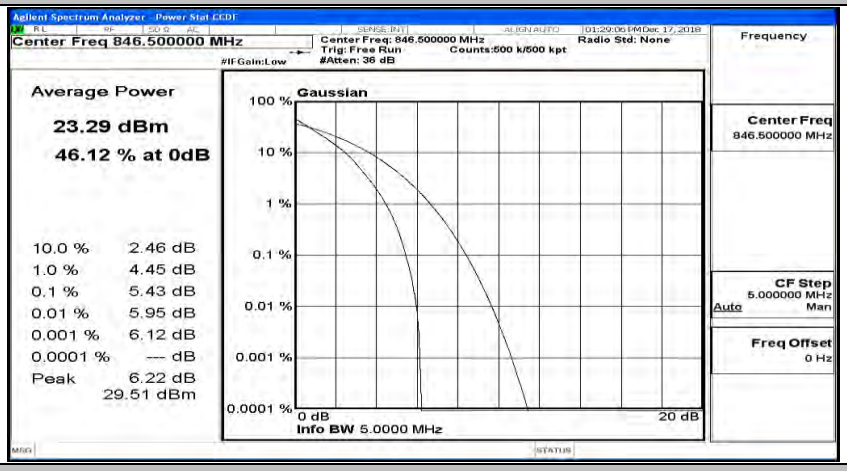
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



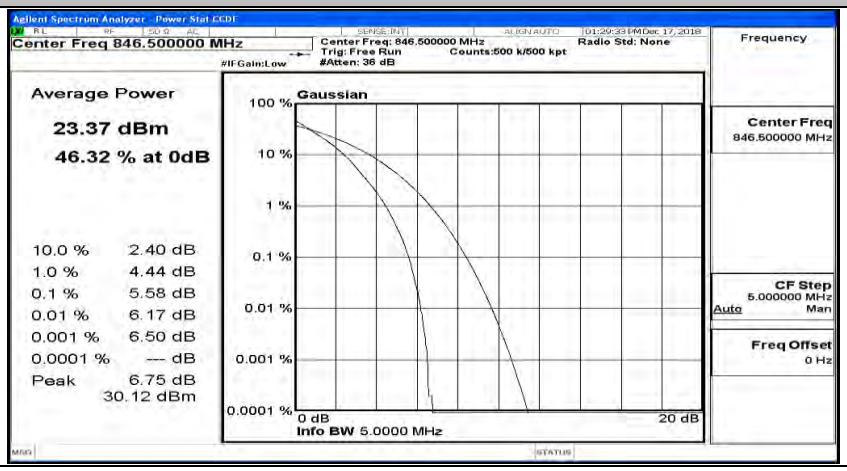
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



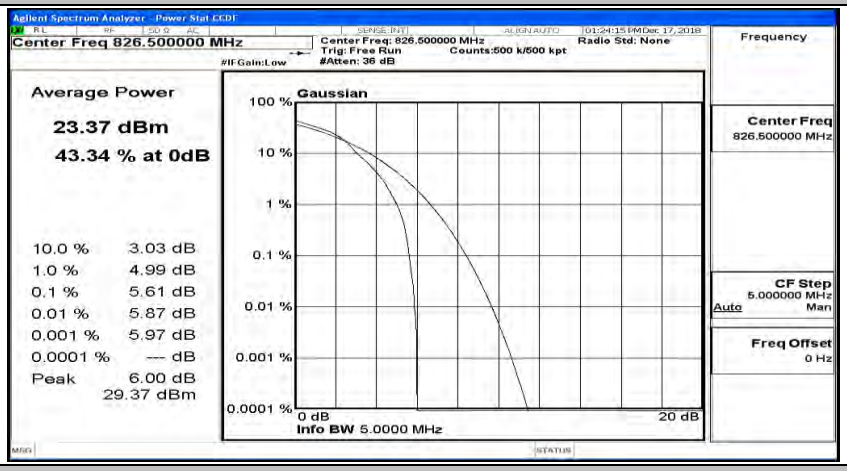
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



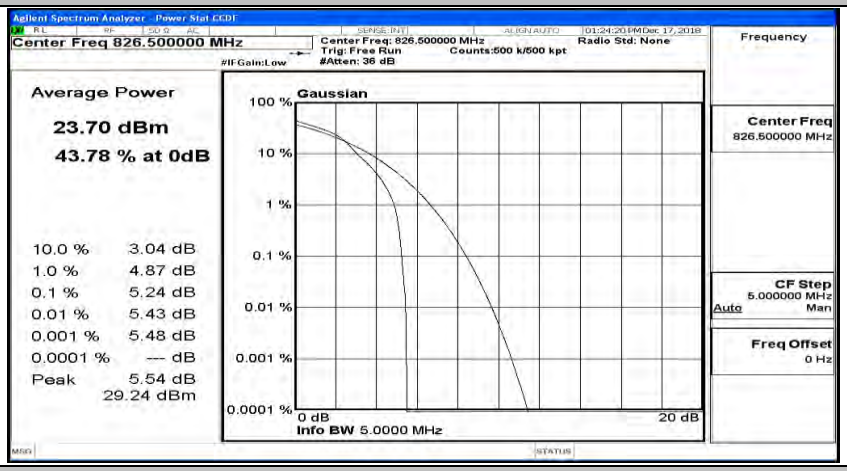
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



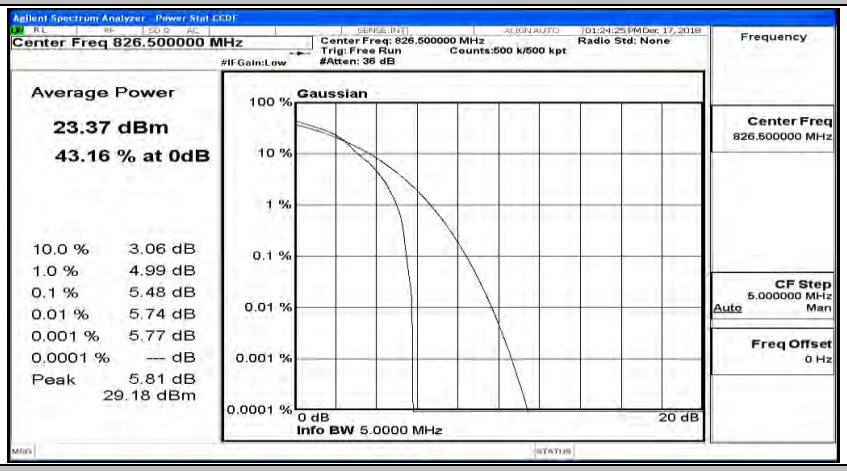
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



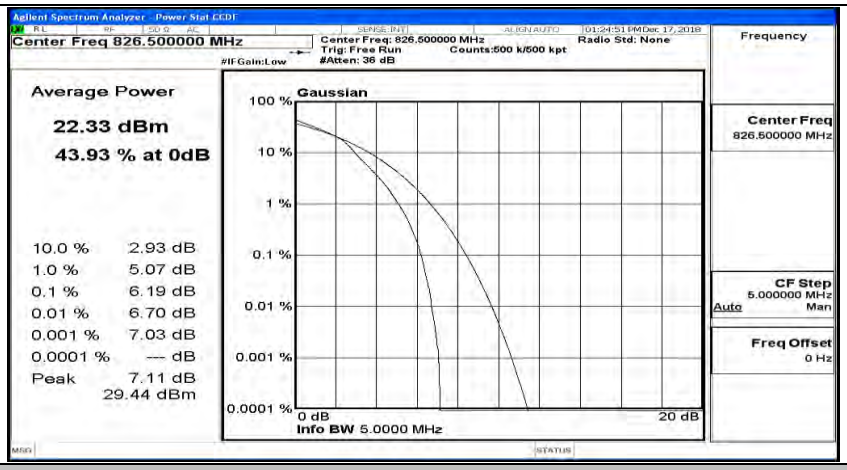
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



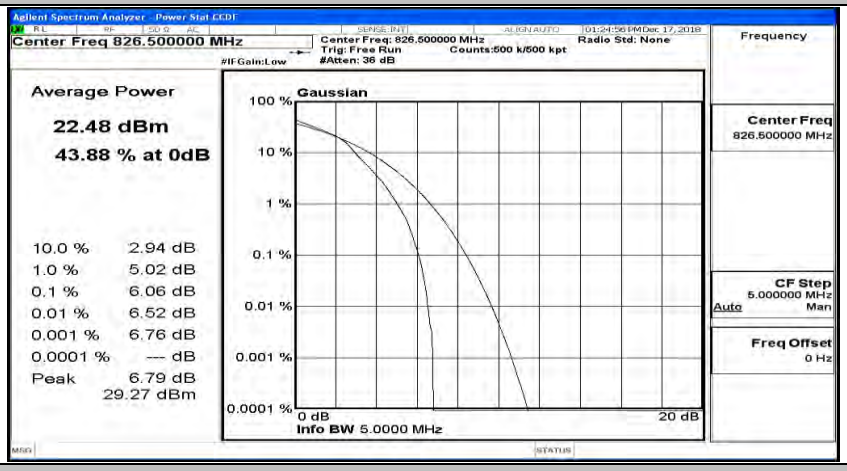
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



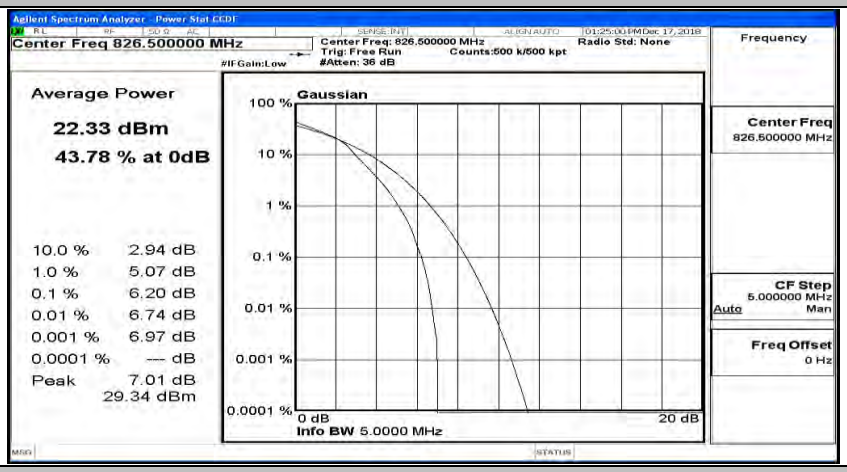
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0



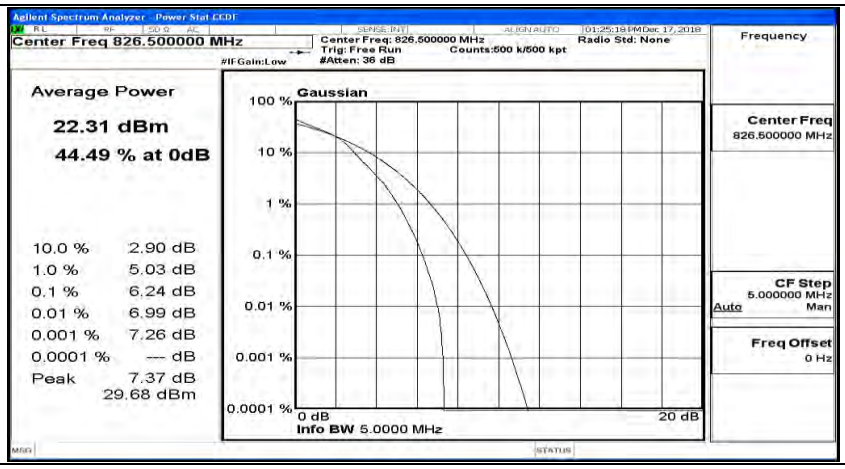
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



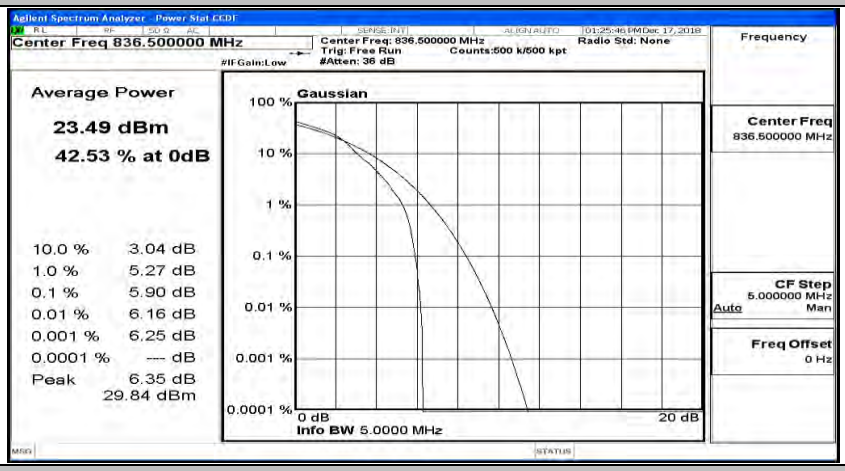
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



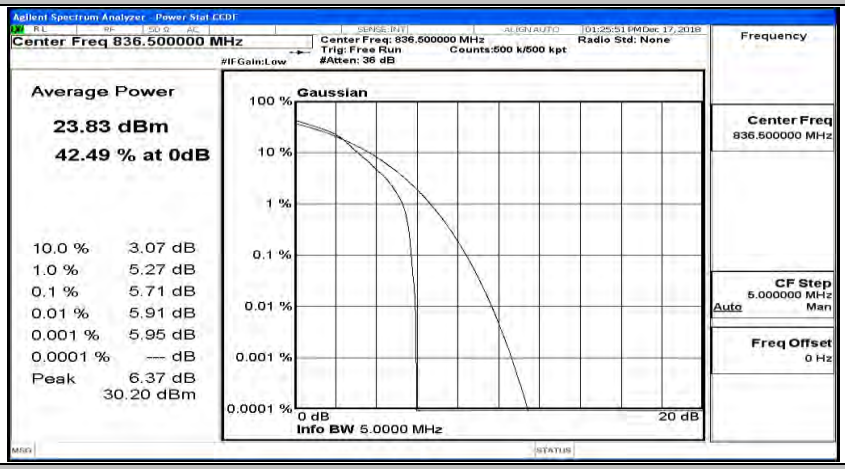
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



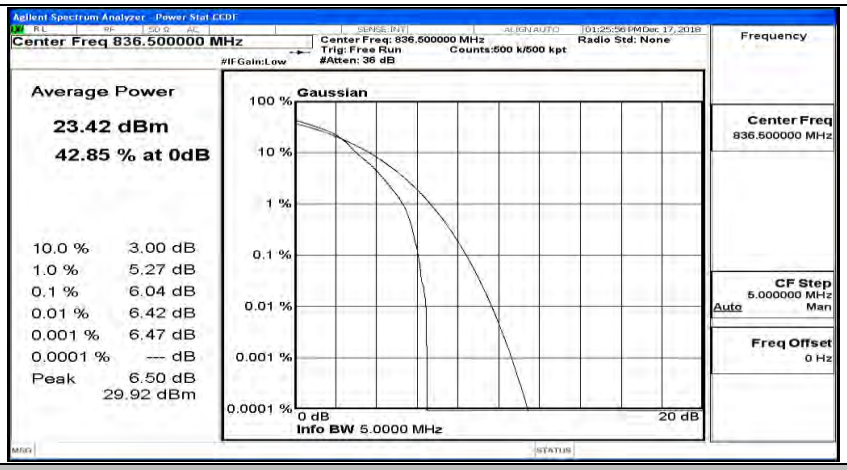
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



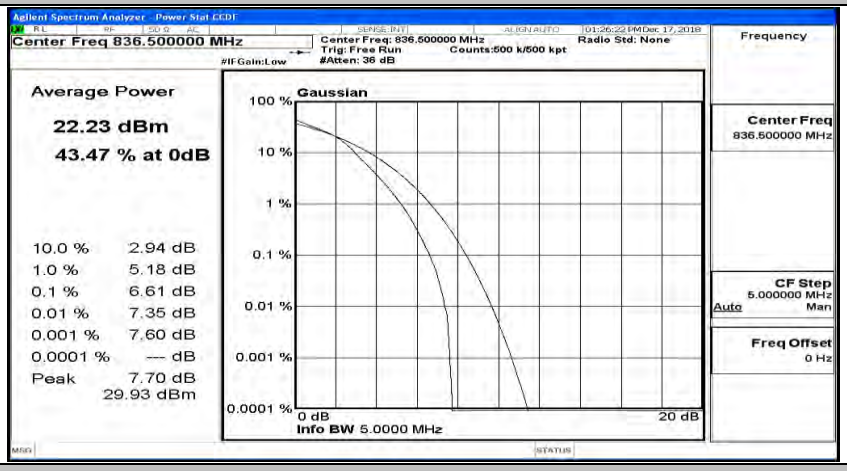
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12



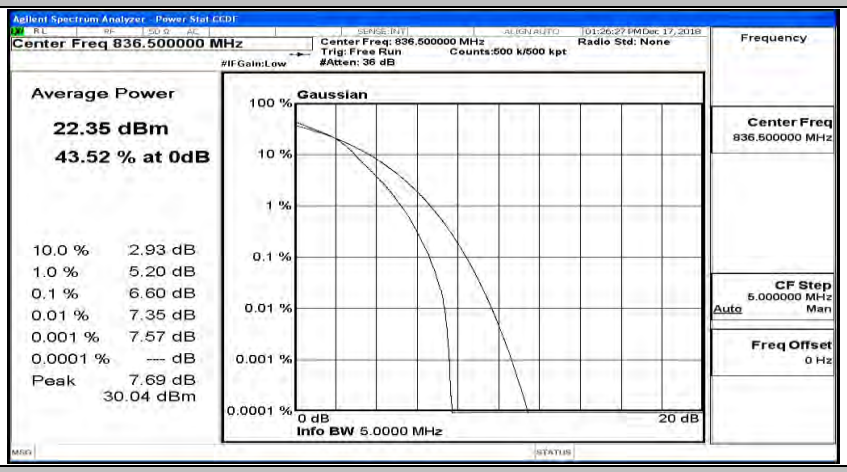
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24



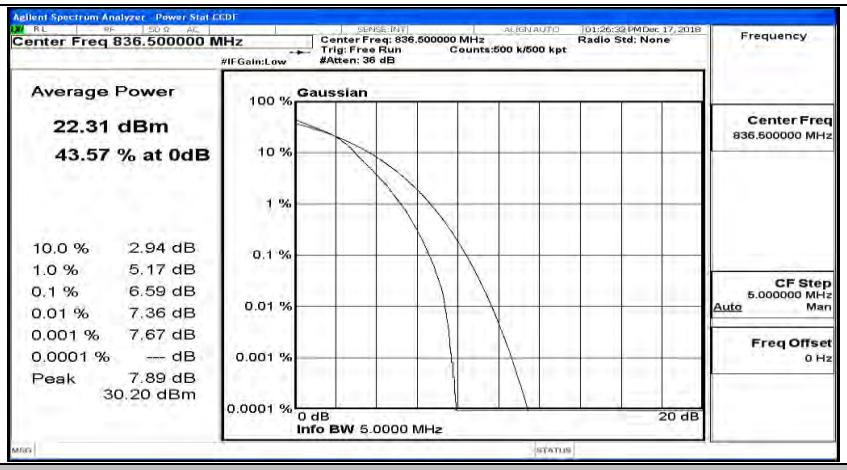
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#0



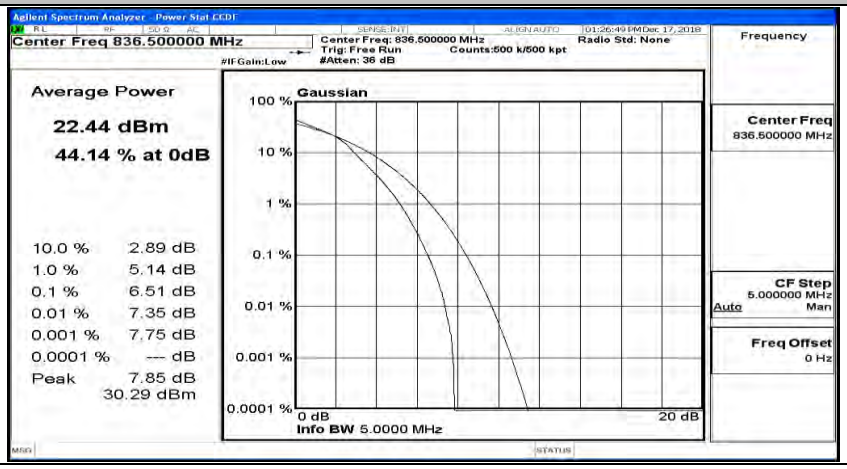
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#6



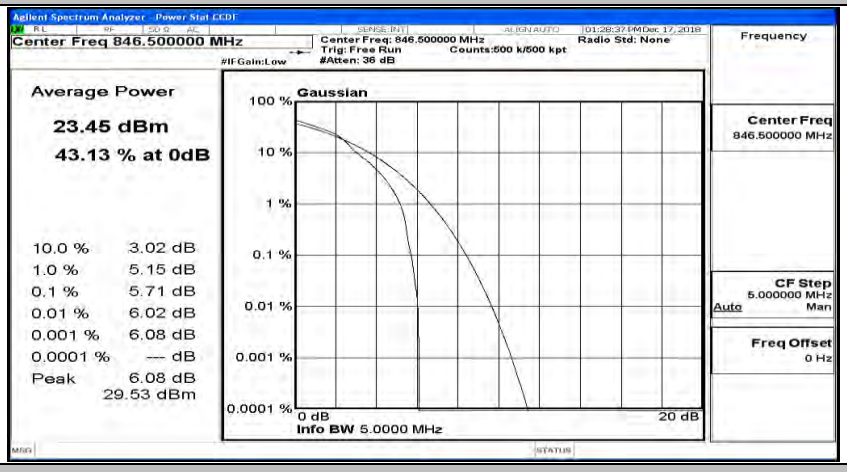
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13



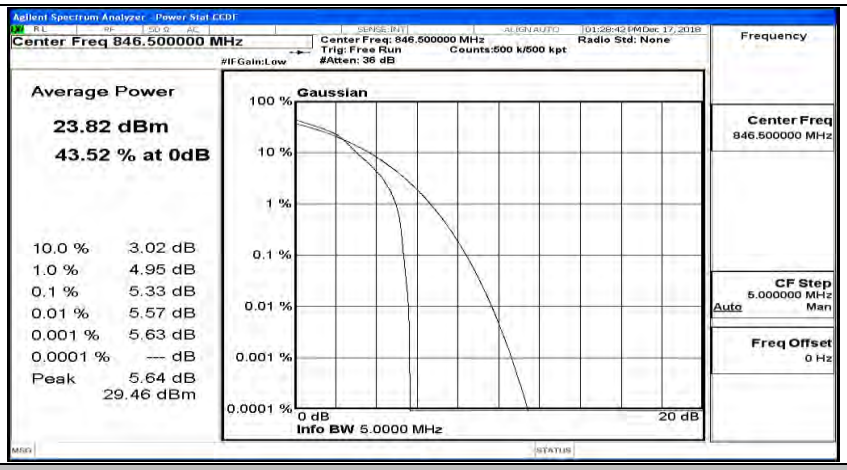
(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0



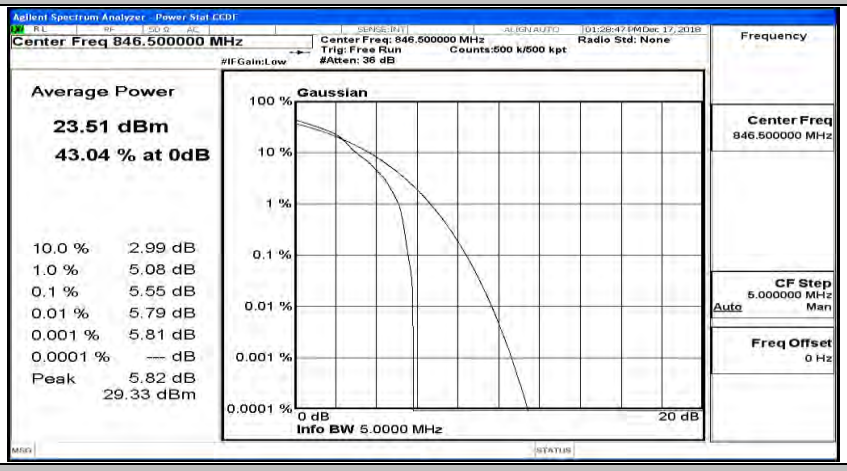
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



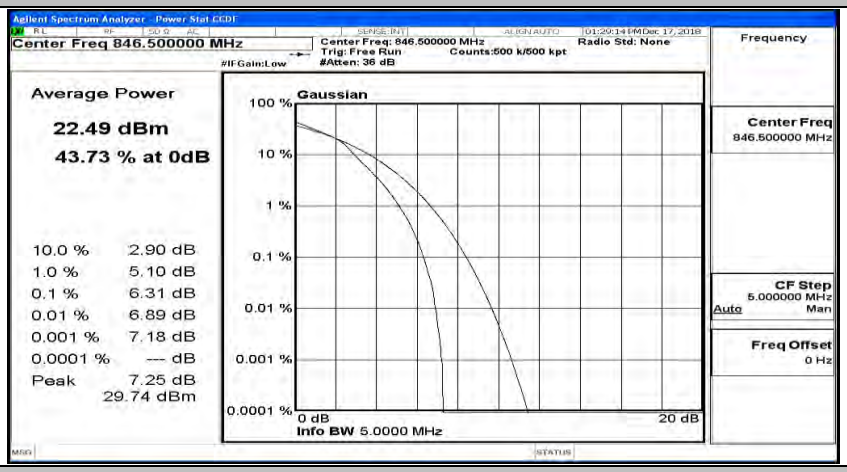
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



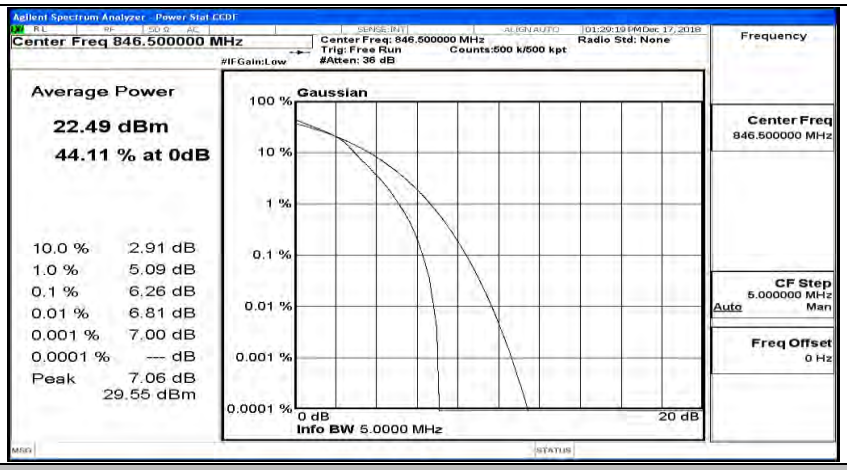
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



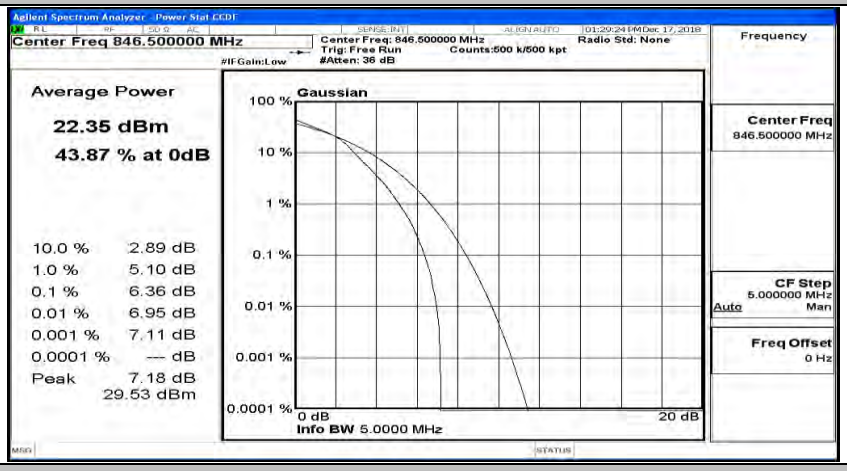
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



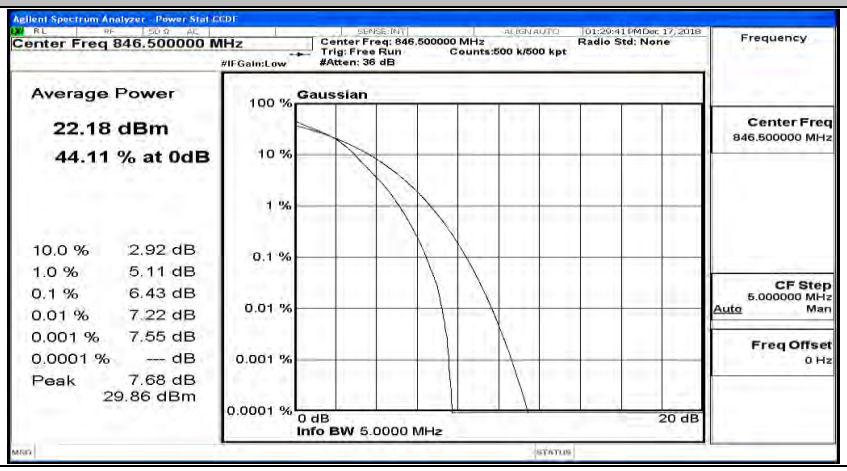
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

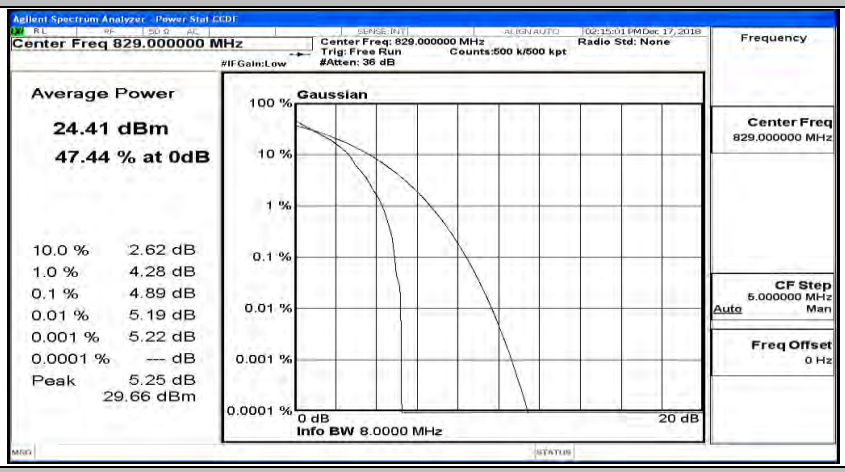


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

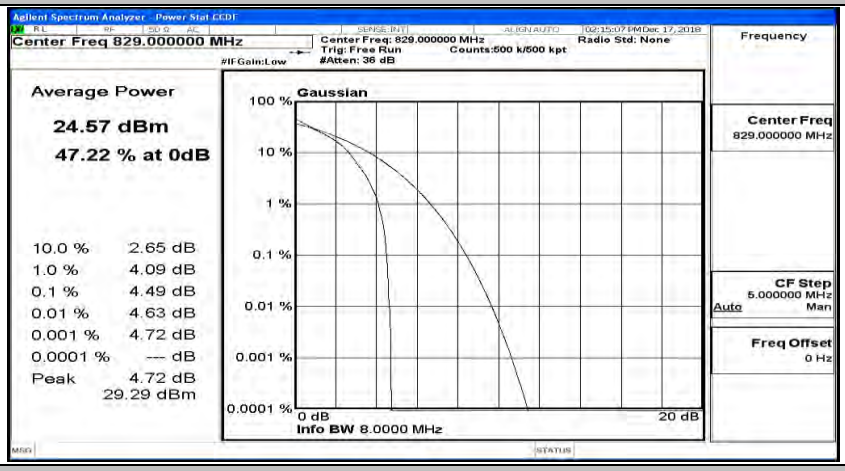


Channel Bandwidth: 10 MHz

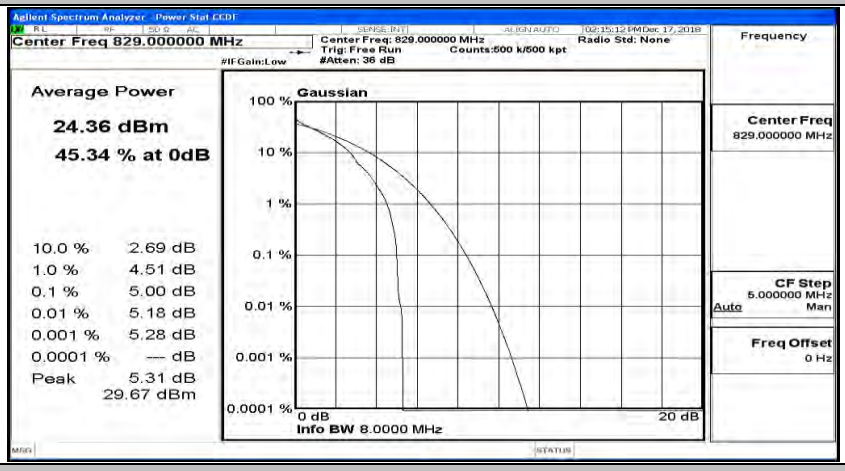
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



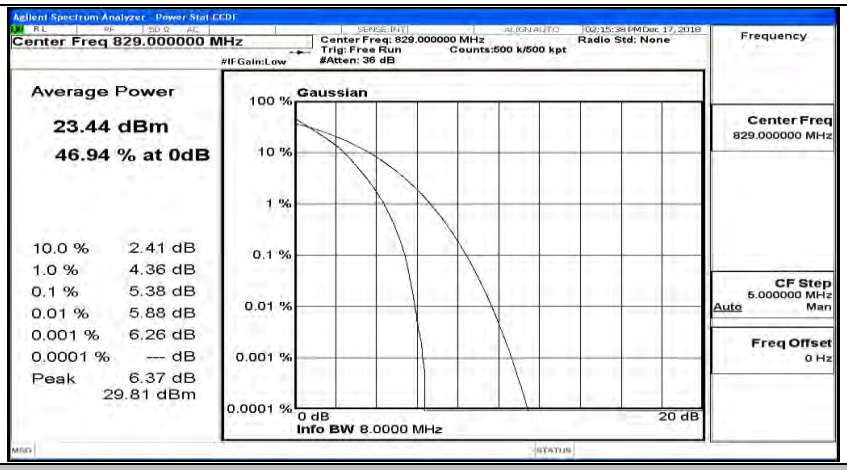
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



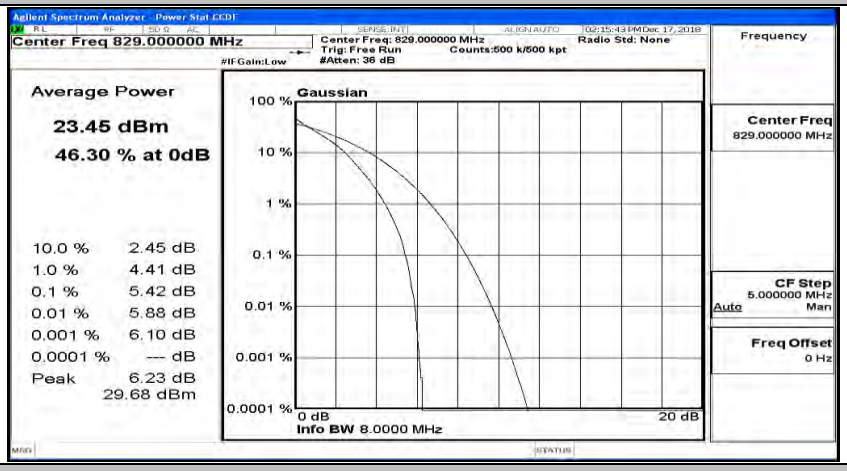
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



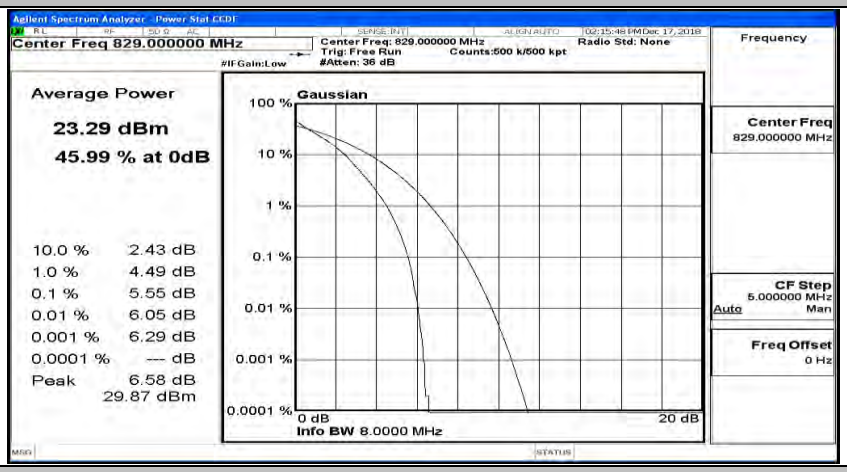
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0



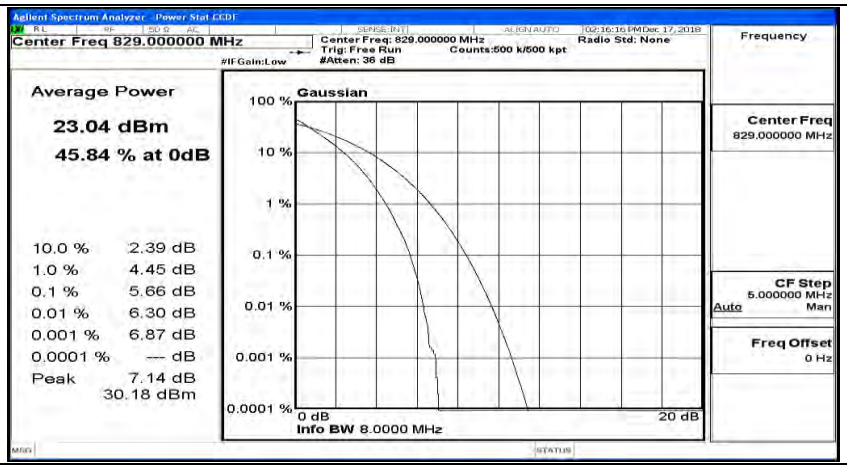
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12



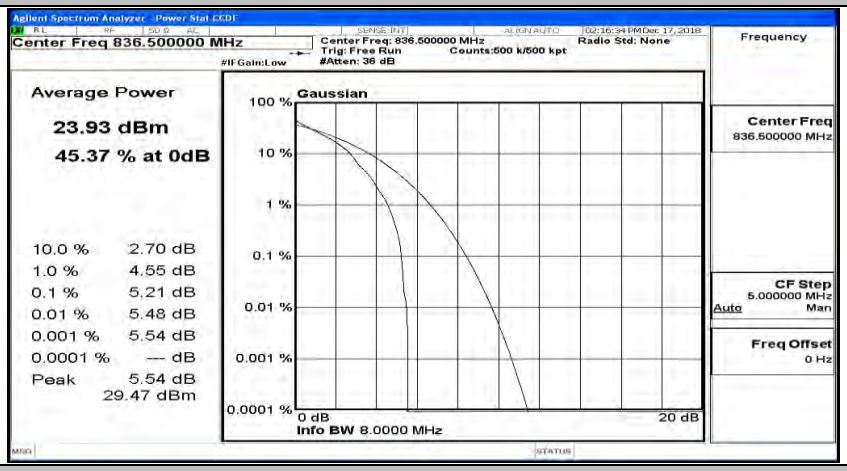
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25



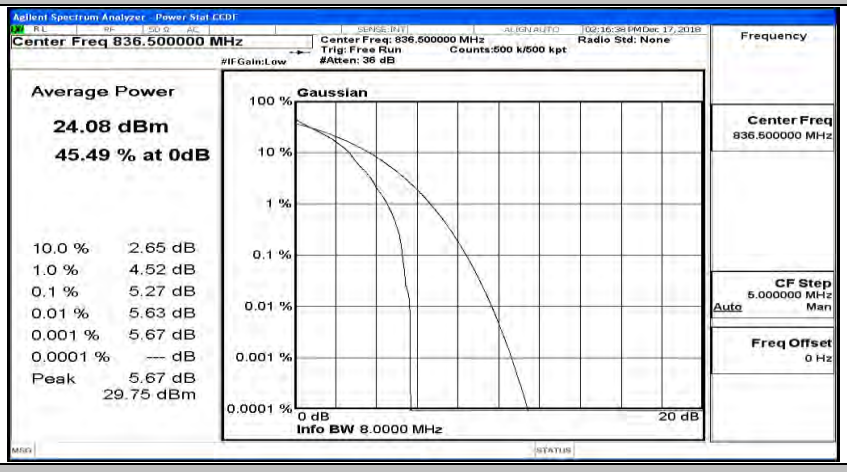
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



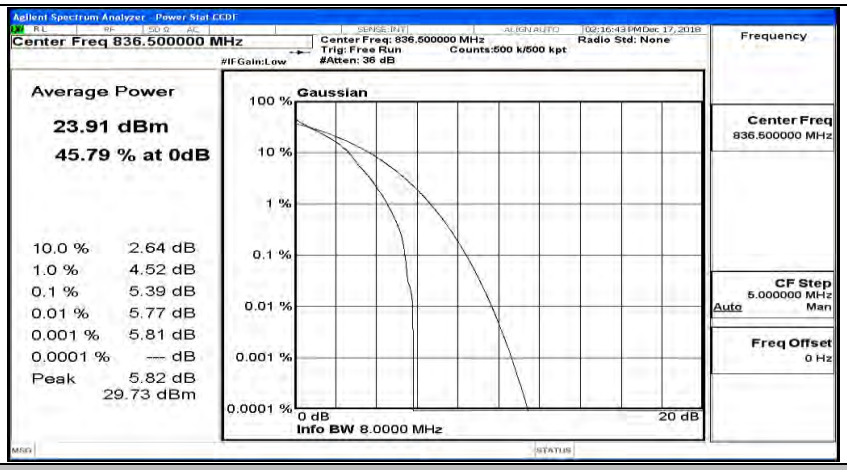
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



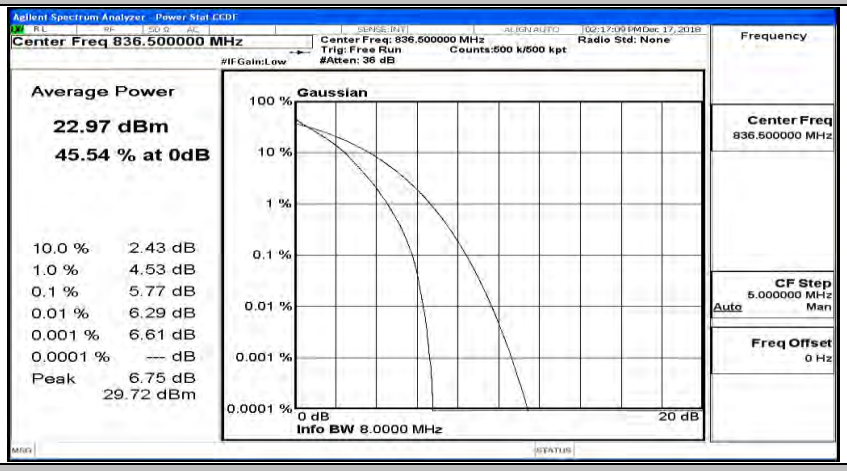
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24



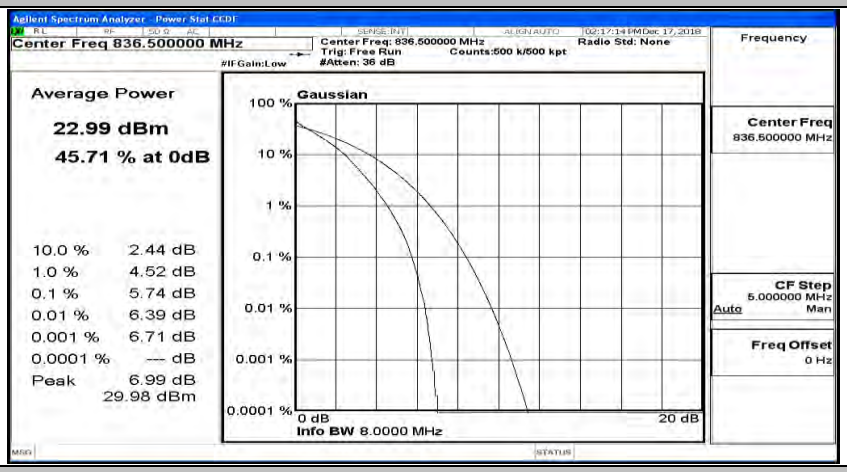
Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49



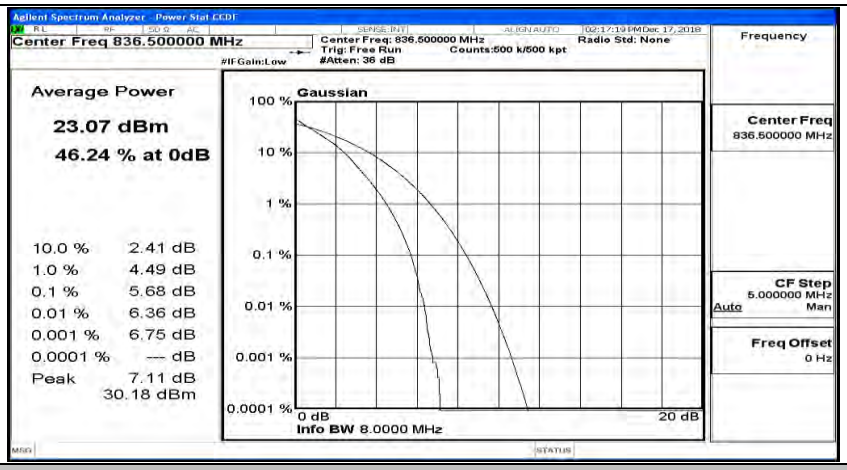
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0



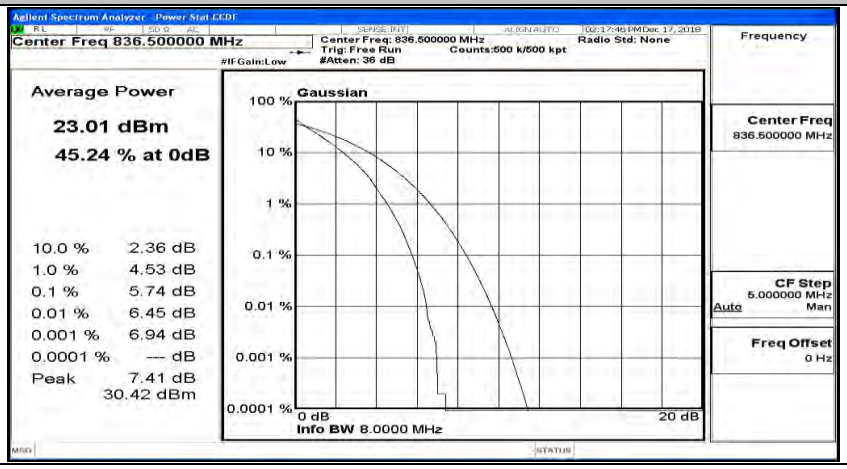
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12



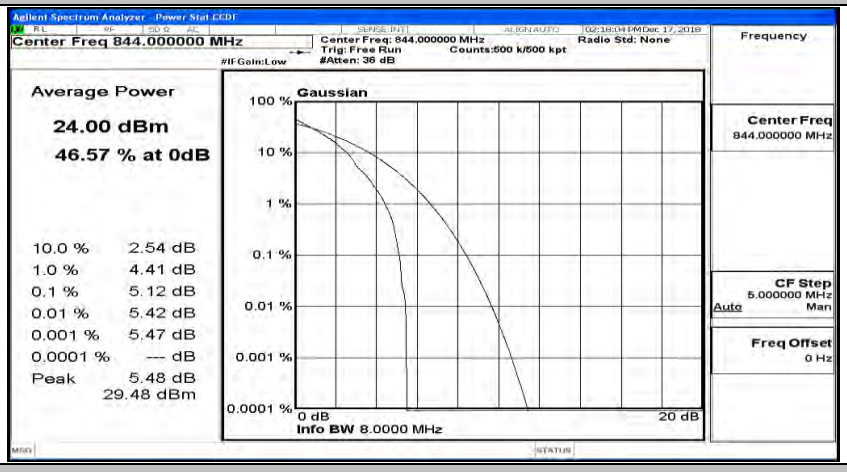
Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25



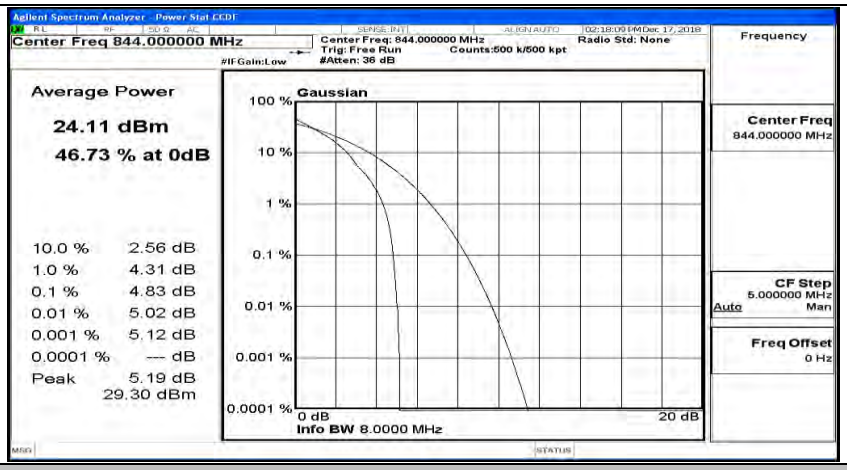
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



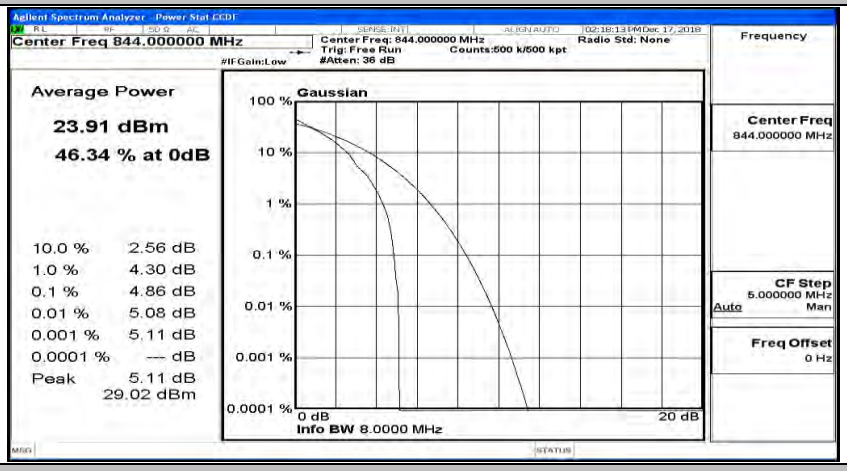
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



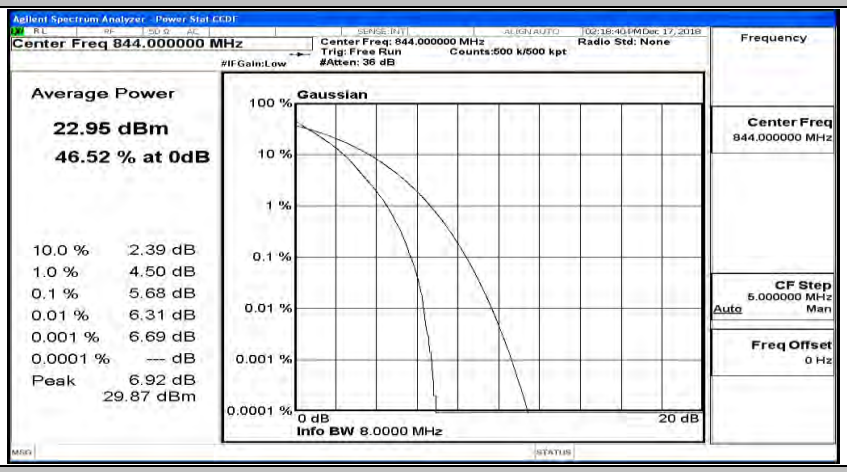
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



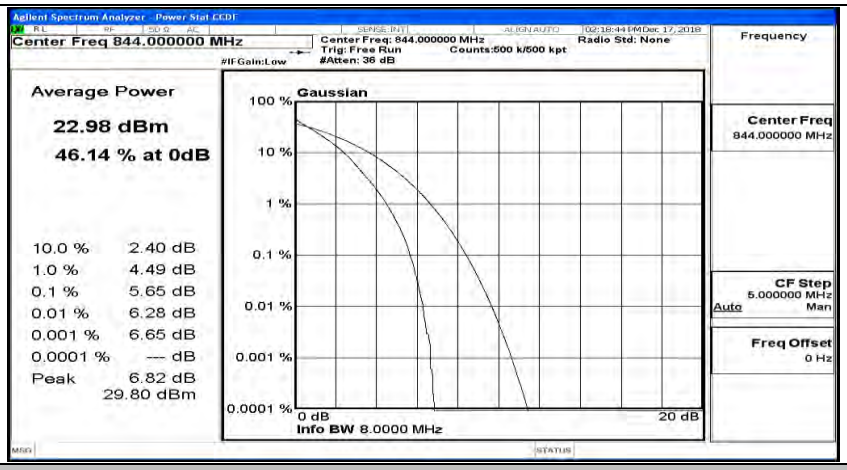
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49



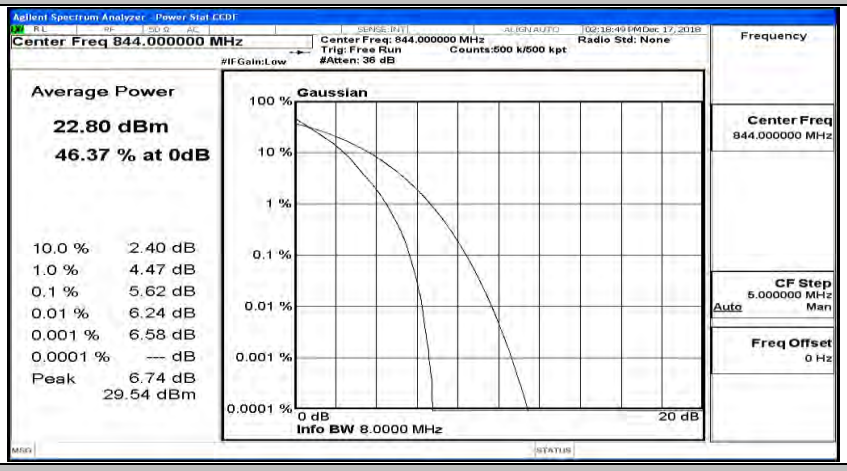
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0



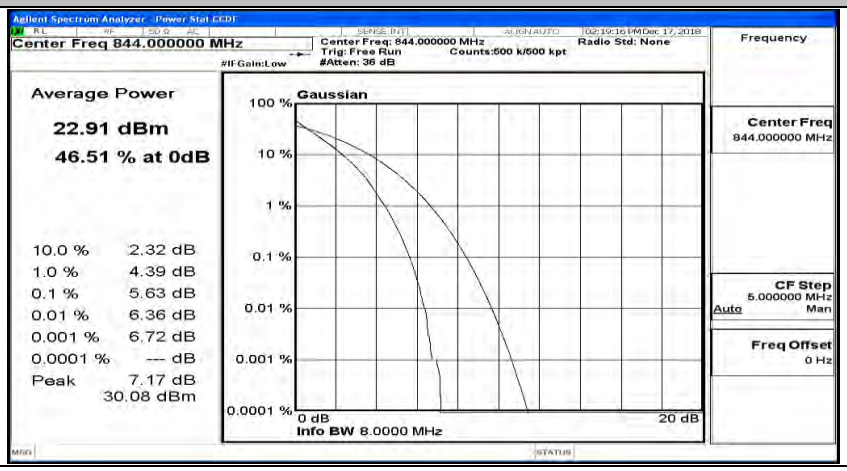
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12



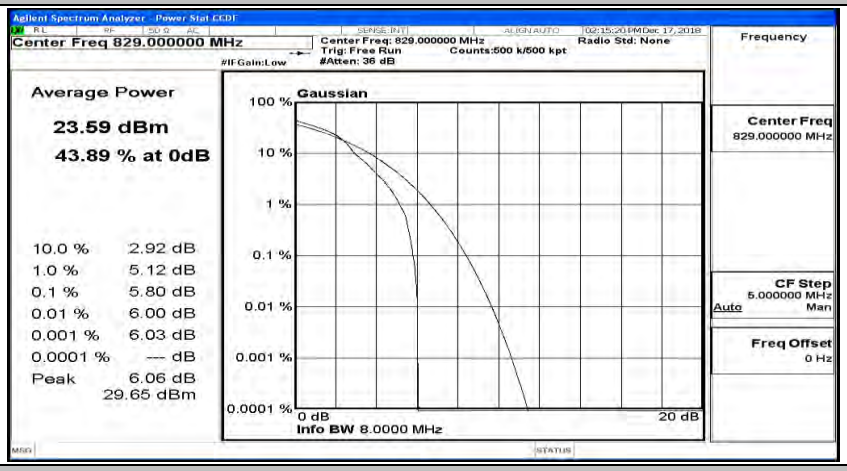
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25



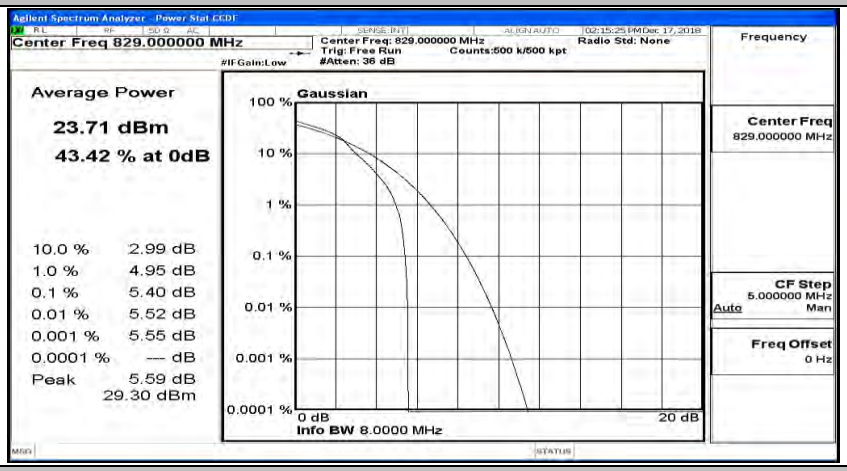
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



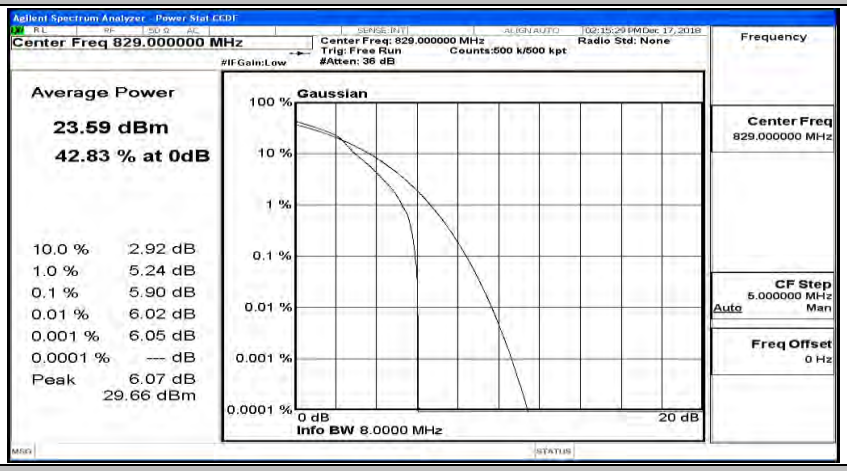
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



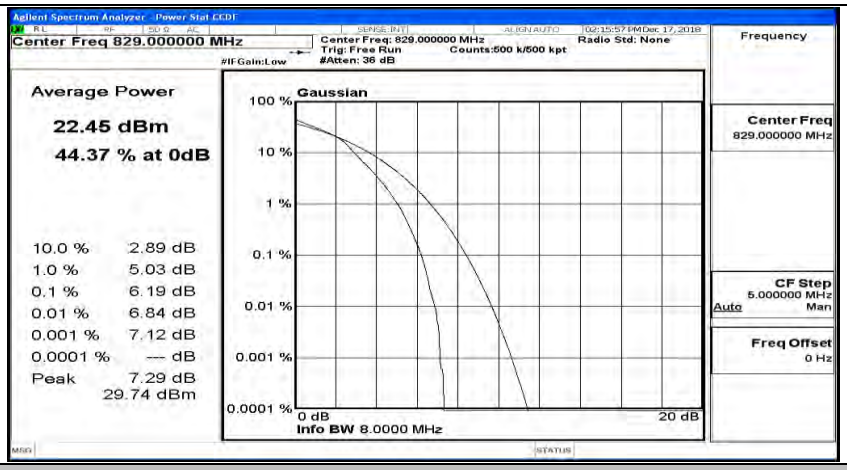
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



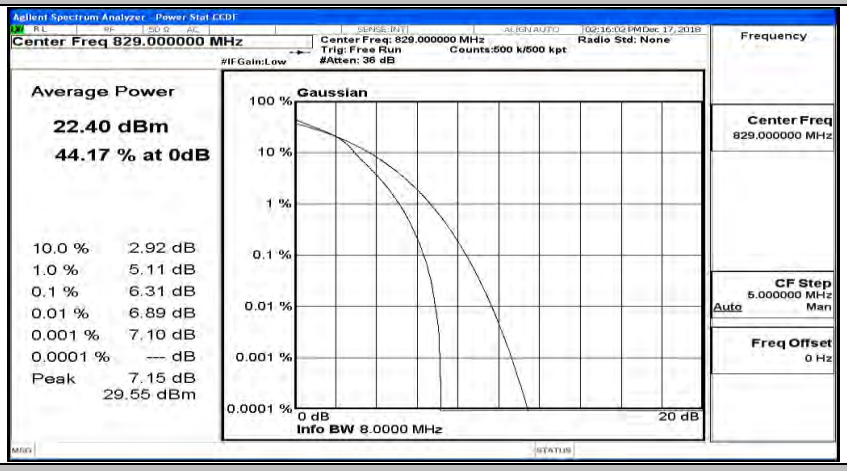
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



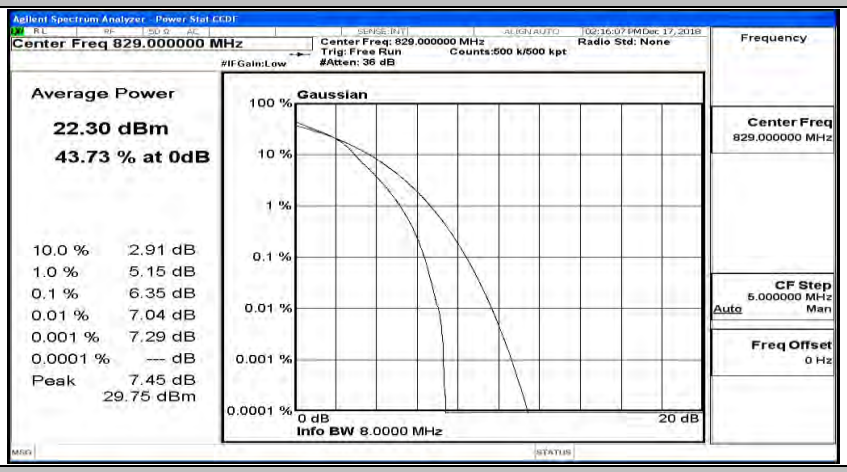
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0



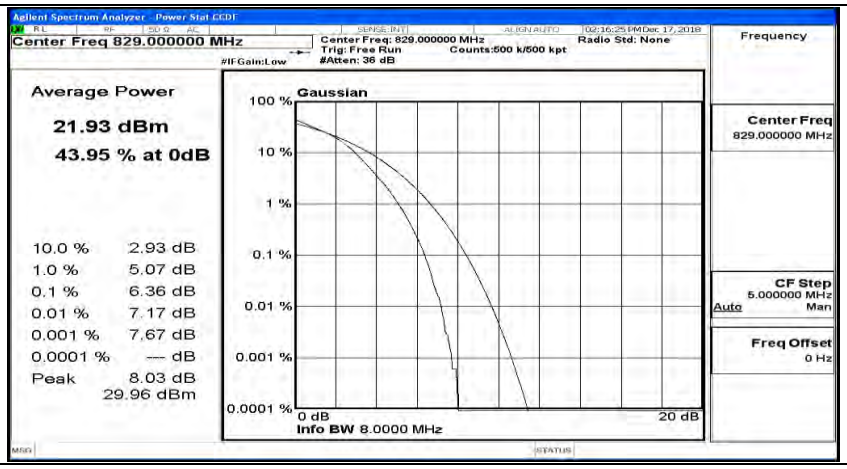
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12



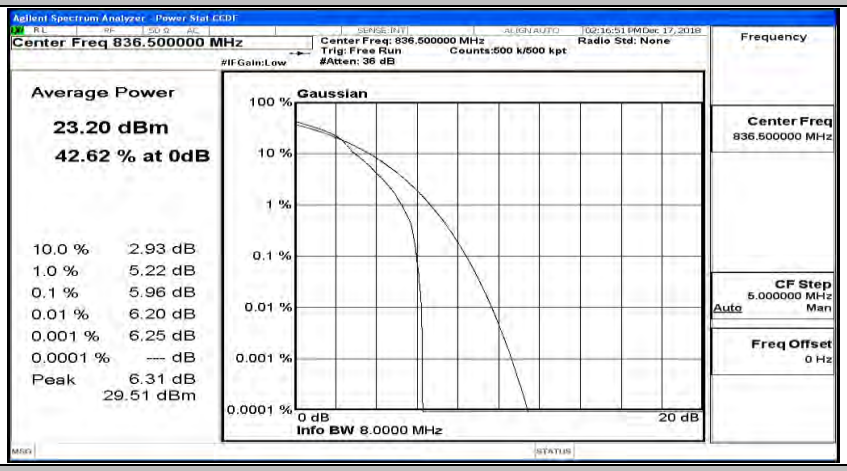
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25



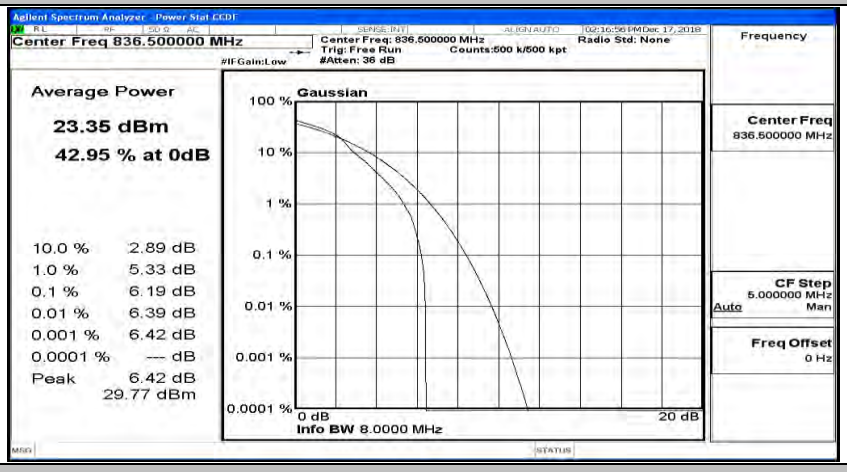
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



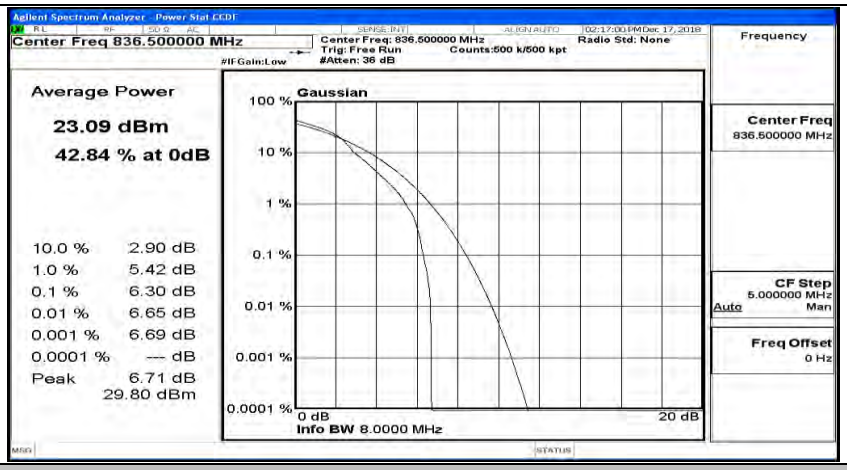
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



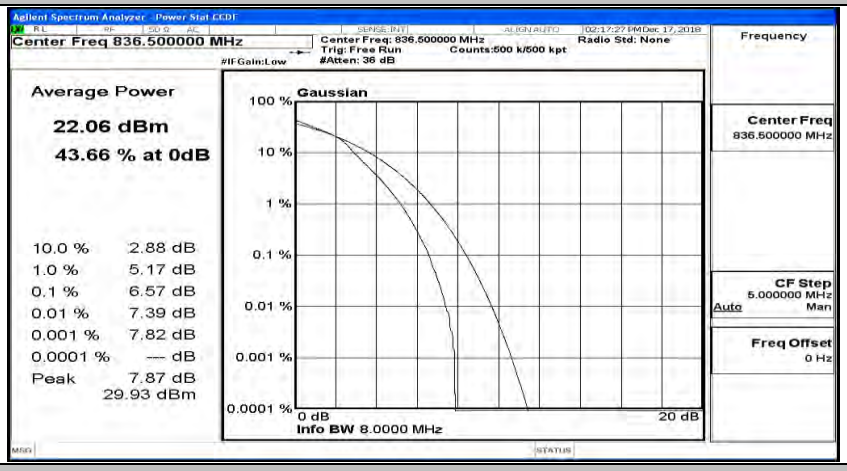
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24



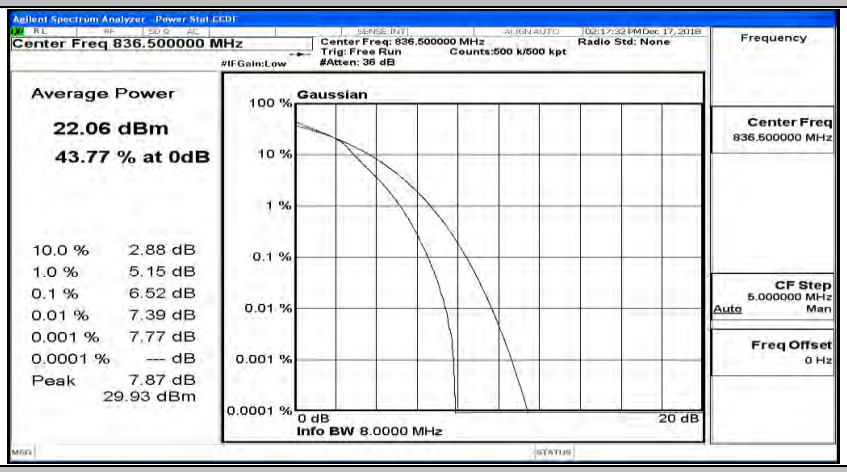
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49



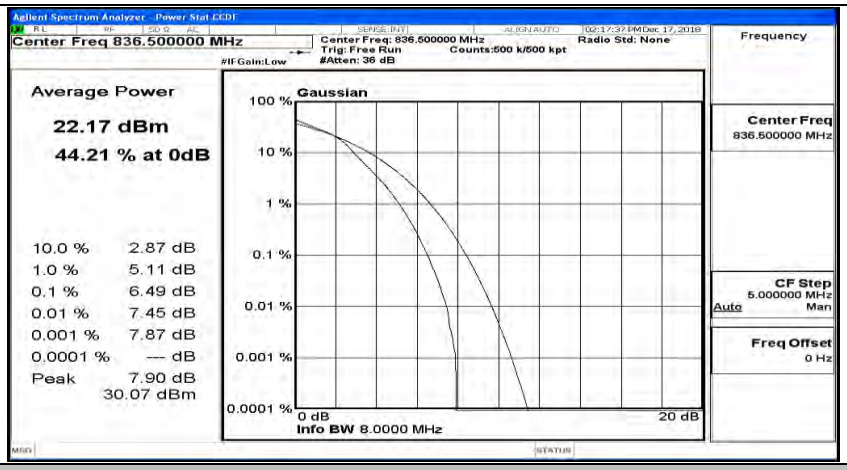
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0



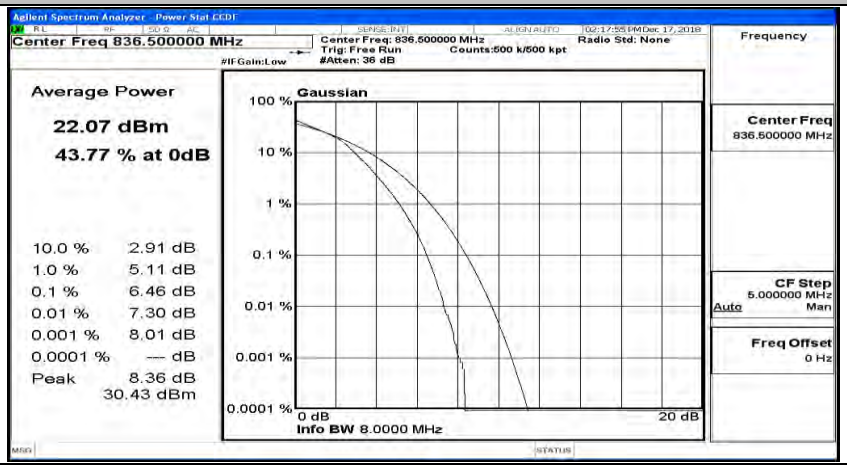
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#12



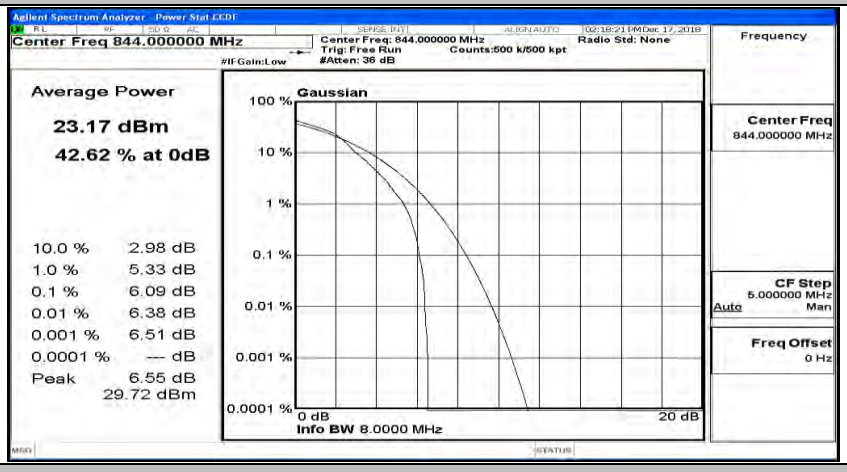
Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25



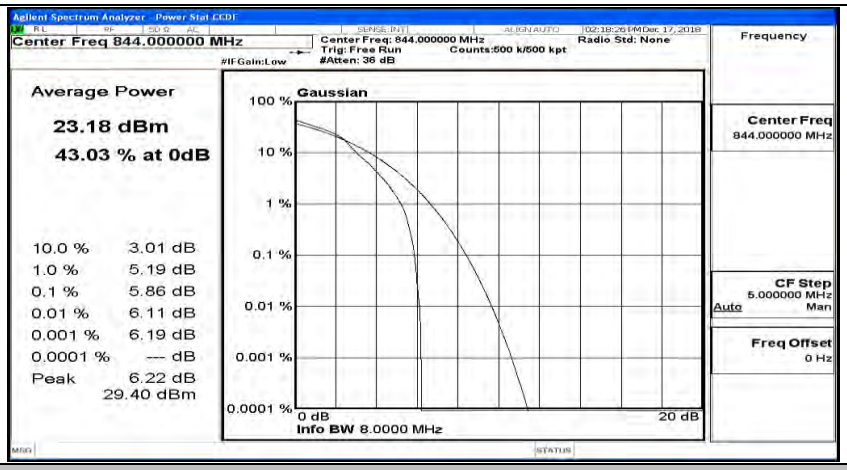
Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



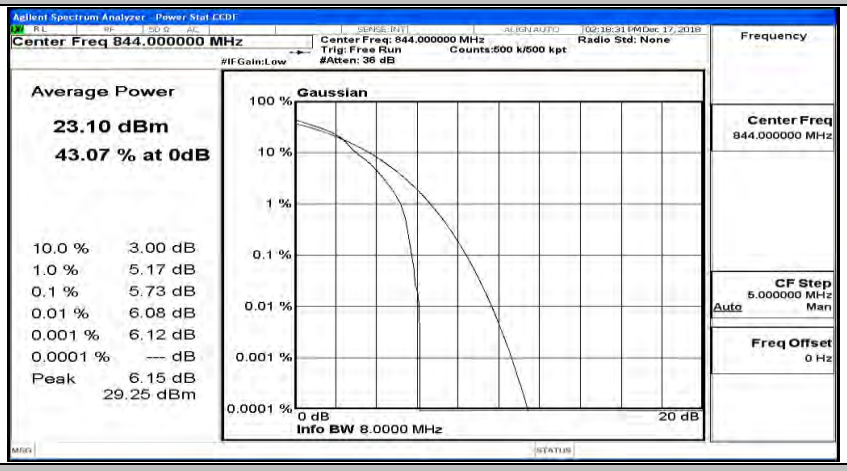
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



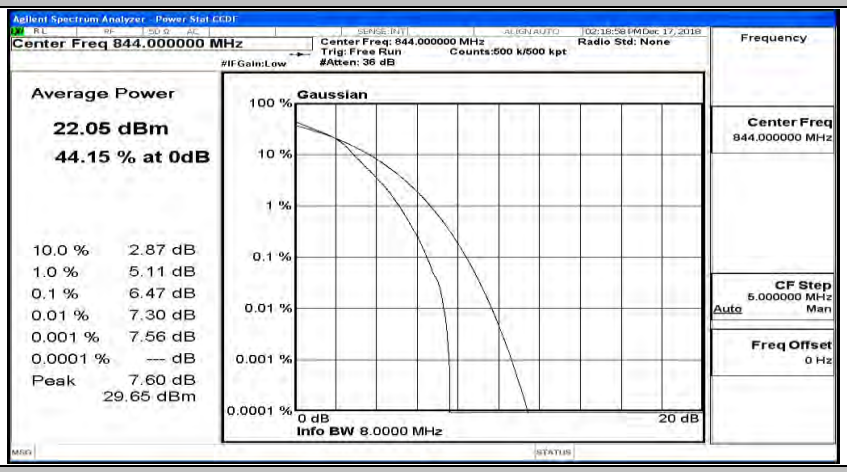
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



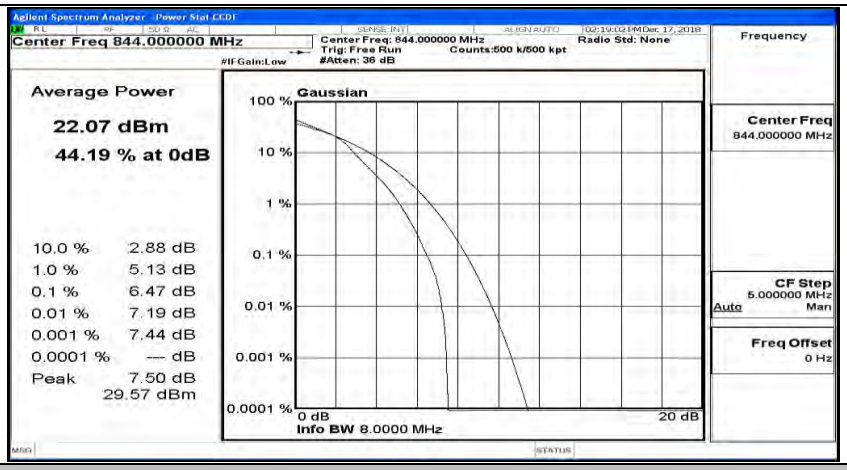
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



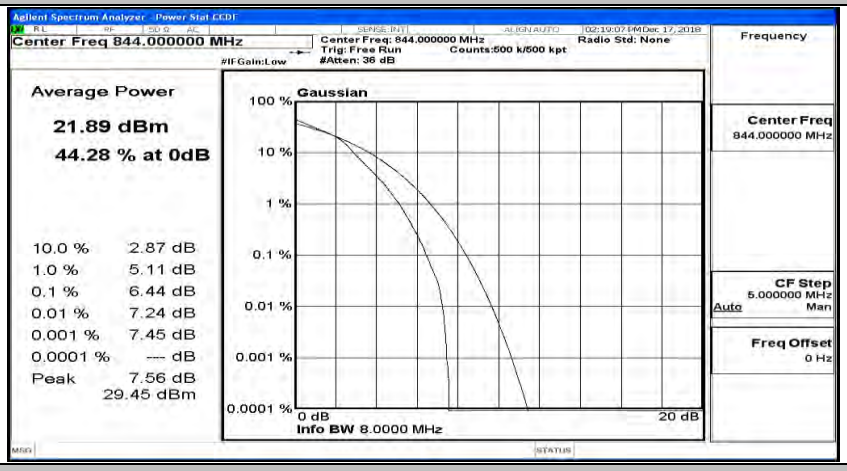
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0



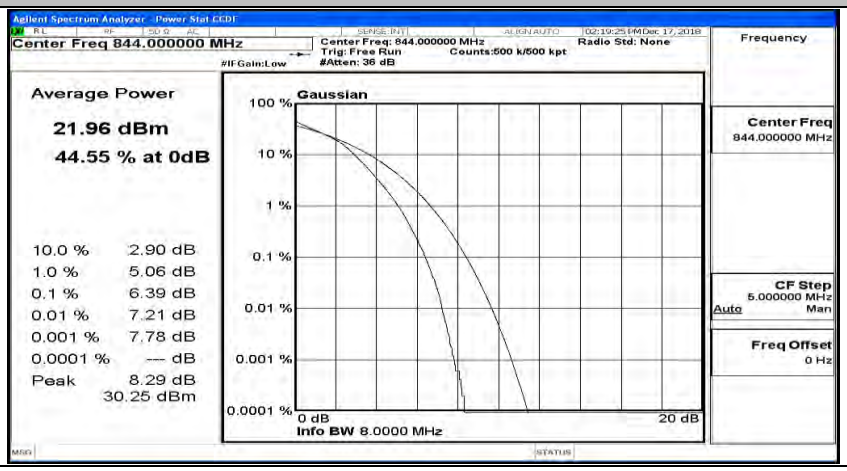
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25



Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0



E.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.22303	0.3535	PASS
		1	3	0.22464	0.3772	PASS
		1	5	0.22286	0.3548	PASS
		3	0	0.55175	0.7219	PASS
		3	2	0.55081	0.7185	PASS
		3	3	0.54795	0.7038	PASS
		6	0	1.0749	1.230	PASS
	MCH	1	0	0.22703	0.3629	PASS
		1	3	0.22993	0.3477	PASS
		1	5	0.23049	0.3421	PASS
		3	0	0.55053	0.7272	PASS
		3	2	0.54972	0.7083	PASS
		3	3	0.55002	0.6989	PASS
		6	0	1.0750	1.216	PASS
	HCH	1	0	0.22480	0.3654	PASS
		1	3	0.22051	0.3354	PASS
		1	5	0.22376	0.3598	PASS
		3	0	0.55113	0.7099	PASS
		3	2	0.54994	0.7004	PASS
		3	3	0.55195	0.7084	PASS
		6	0	1.0775	1.217	PASS
16QAM	LCH	1	0	0.23363	0.3746	PASS
		1	3	0.23402	0.3683	PASS
		1	5	0.24192	0.3703	PASS
		3	0	0.55491	0.7119	PASS
		3	2	0.55439	0.7302	PASS
		3	3	0.55540	0.7224	PASS
		6	0	1.0815	1.232	PASS
	MCH	1	0	0.22449	0.3363	PASS
		1	3	0.23223	0.3645	PASS
		1	5	0.22846	0.3650	PASS
		3	0	0.55549	0.7530	PASS
		3	2	0.55466	0.7115	PASS
		3	3	0.55636	0.7459	PASS

		6	0	1.0770	1.224	PASS
	HCH	1	0	0.22759	0.3723	PASS
		1	3	0.23599	0.4057	PASS
		1	5	0.22606	0.3795	PASS
		3	0	0.55495	0.7401	PASS
		3	2	0.54934	0.7277	PASS
		3	3	0.54985	0.7125	PASS
		6	0	1.0751	1.227	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.25952	0.3910	PASS
		1	7	0.26244	0.4229	PASS
		1	14	0.26496	0.3818	PASS
		8	0	1.4468	1.645	PASS
		8	4	1.4448	1.675	PASS
		8	7	1.4435	1.627	PASS
		15	0	2.6761	2.830	PASS
	MCH	1	0	0.25933	0.3852	PASS
		1	7	0.25891	0.4527	PASS
		1	14	0.25658	0.3955	PASS
		8	0	1.4428	1.607	PASS
		8	4	1.4483	1.661	PASS
		8	7	1.4433	1.624	PASS
		15	0	2.6834	2.834	PASS
	HCH	1	0	0.25830	0.4058	PASS
		1	7	0.25269	0.4206	PASS
		1	14	0.26167	0.4177	PASS
		8	0	1.4445	1.657	PASS
		8	4	1.4467	1.700	PASS
		8	7	1.4508	1.656	PASS
		15	0	2.6778	2.836	PASS
16QAM	LCH	1	0	0.25955	0.4065	PASS
		1	7	0.25820	0.4219	PASS
		1	14	0.26699	0.4182	PASS
		8	0	1.4423	1.637	PASS
		8	4	1.4483	1.676	PASS
		8	7	1.4437	1.654	PASS
		15	0	2.6782	2.841	PASS
	MCH	1	0	0.26529	0.4266	PASS

		1	7	0.26499	0.4379	PASS
		1	14	0.26894	0.3879	PASS
		8	0	1.4480	1.651	PASS
		8	4	1.4490	1.689	PASS
		8	7	1.4428	1.632	PASS
		15	0	2.6772	2.820	PASS
	HCH	1	0	0.25185	0.3909	PASS
		1	7	0.26778	0.4418	PASS
		1	14	0.26099	0.3914	PASS
		8	0	1.4403	1.610	PASS
		8	4	1.4448	1.687	PASS
		8	7	1.4433	1.634	PASS
		15	0	2.6829	2.821	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.34127	0.5416	PASS
		1	12	0.34648	0.5980	PASS
		1	24	0.32498	0.5310	PASS
		12	0	2.1817	2.572	PASS
		12	6	2.1763	2.520	PASS
		12	13	2.1732	2.584	PASS
		25	0	4.4806	4.854	PASS
	MCH	1	0	0.33362	0.5363	PASS
		1	12	0.34942	0.5746	PASS
		1	24	0.34191	0.5658	PASS
		12	0	2.1822	2.629	PASS
		12	6	2.1772	2.538	PASS
		12	13	2.1797	2.543	PASS
		25	0	4.4743	4.887	PASS
	HCH	1	0	0.33411	0.5488	PASS
		1	12	0.36533	0.6160	PASS
		1	24	0.35594	0.5740	PASS
		12	0	2.1759	2.621	PASS
		12	6	2.1749	2.620	PASS
		12	13	2.1793	2.615	PASS
		25	0	4.4752	4.901	PASS
16QAM	LCH	1	0	0.32750	0.5458	PASS
		1	12	0.35282	0.5887	PASS
		1	24	0.36479	0.5774	PASS

		12	0	2.1797	2.590	PASS
		12	6	2.1769	2.569	PASS
		12	13	2.1733	2.563	PASS
		25	0	4.4686	4.844	PASS
	MCH	1	0	0.33062	0.5324	PASS
		1	12	0.34067	0.5646	PASS
		1	24	0.35136	0.5598	PASS
		12	0	2.1769	2.568	PASS
		12	6	2.1760	2.522	PASS
		12	13	2.1754	2.569	PASS
		25	0	4.4803	4.861	PASS
	HCH	1	0	0.36095	0.5969	PASS
		1	12	0.36934	0.6287	PASS
		1	24	0.35508	0.5616	PASS
		12	0	2.1744	2.522	PASS
		12	6	2.1760	2.541	PASS
		12	13	2.1804	2.525	PASS
		25	0	4.4777	4.831	PASS

Channel Bandwidth: 10 MHz

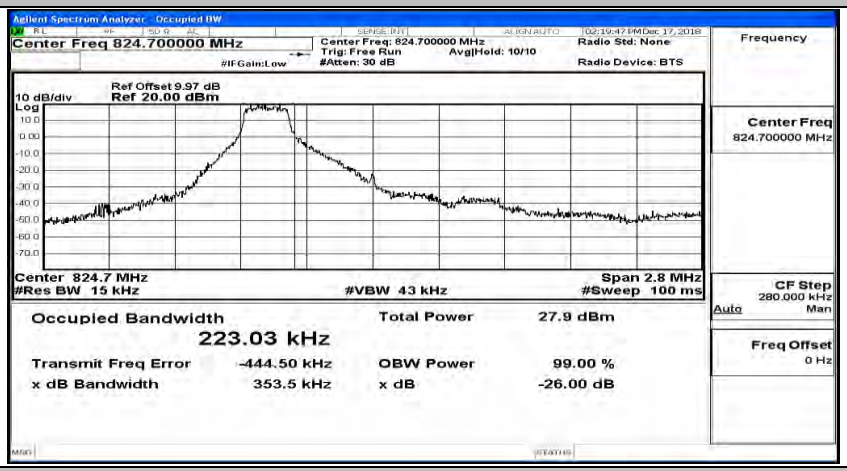
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	1	0	0.44378	0.6581	PASS
		1	25	0.43306	0.6631	PASS
		1	49	0.42388	0.6821	PASS
		25	0	4.5131	4.959	PASS
		25	12	4.5193	5.059	PASS
		25	25	4.5198	5.003	PASS
		50	0	8.9378	9.471	PASS
	MCH	1	0	0.43628	0.6884	PASS
		1	25	0.43918	0.6698	PASS
		1	49	0.42740	0.6758	PASS
		25	0	4.5114	5.071	PASS
		25	12	4.5268	5.097	PASS
		25	25	4.5141	5.049	PASS
		50	0	8.9598	9.502	PASS
	HCH	1	0	0.42779	0.6567	PASS
		1	25	0.44969	0.7492	PASS
		1	49	0.44208	0.6541	PASS
		25	0	4.5047	5.012	PASS
		25	12	4.5045	5.000	PASS
		25	25	4.5044	5.039	PASS

		50	0	8.9196	9.461	PASS
16QAM	LCH	1	0	0.41784	0.6368	PASS
		1	25	0.43597	0.6419	PASS
		1	49	0.45010	0.7067	PASS
		25	0	4.5093	4.984	PASS
		25	12	4.5209	5.044	PASS
		25	25	4.5149	5.031	PASS
		50	0	8.9328	9.493	PASS
	MCH	1	0	0.42250	0.6544	PASS
		1	25	0.41880	0.6130	PASS
		1	49	0.42980	0.6663	PASS
		25	0	4.5067	5.044	PASS
		25	12	4.5163	4.997	PASS
		25	25	4.5245	4.971	PASS
		50	0	8.9506	9.498	PASS
	HCH	1	0	0.47348	0.7417	PASS
		1	25	0.44965	0.6810	PASS
		1	49	0.42834	0.6632	PASS
		25	0	4.5001	5.022	PASS
		25	12	4.5116	5.149	PASS
		25	25	4.5123	5.092	PASS
		50	0	8.9310	9.419	PASS

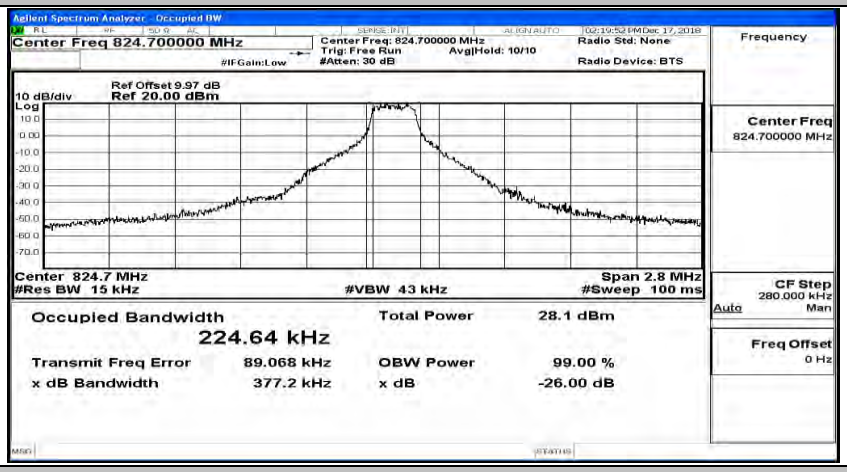
Test Graphs

Channel Bandwidth: 1.4 MHz

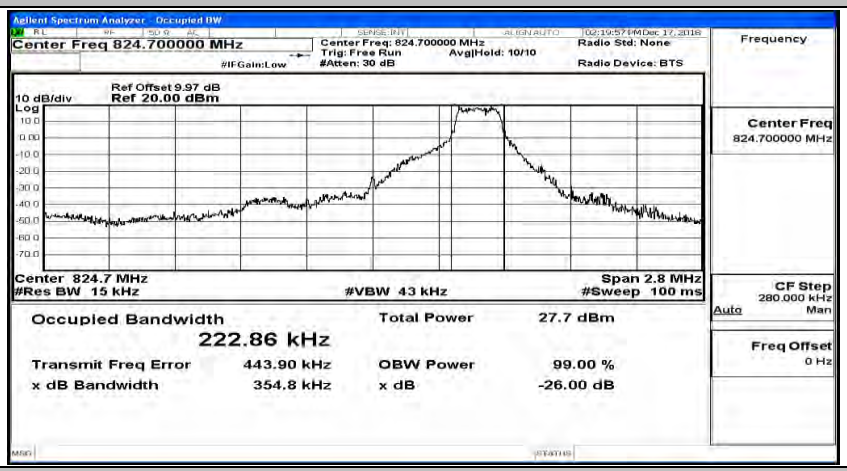
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



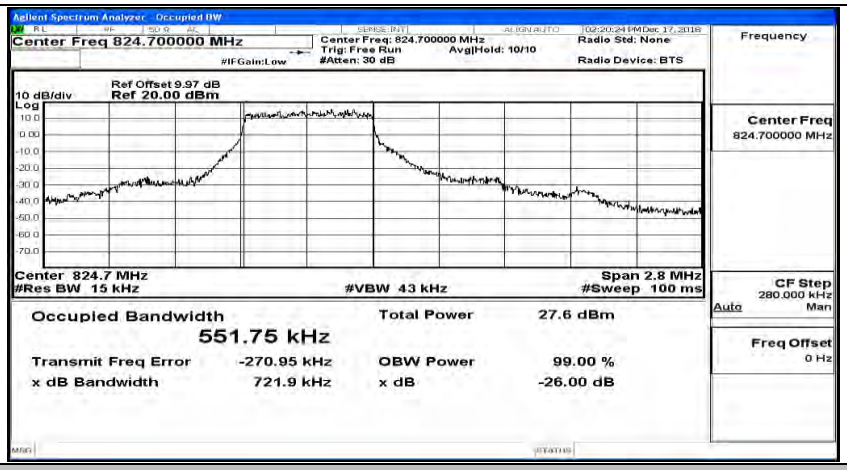
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



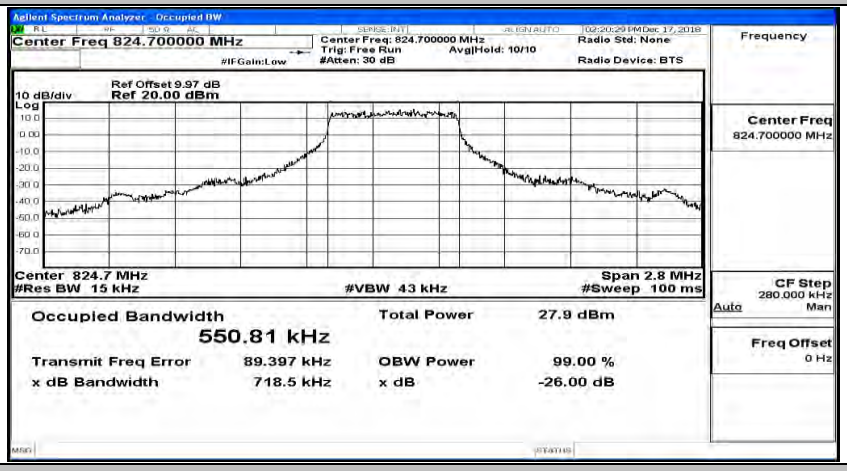
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



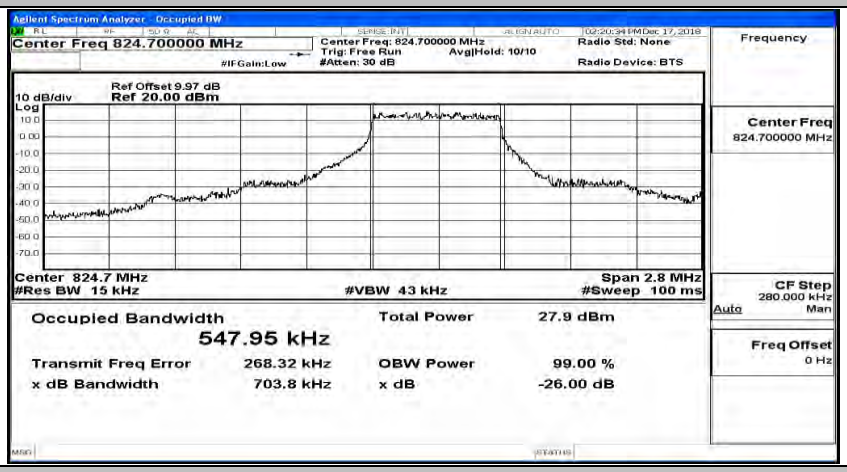
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



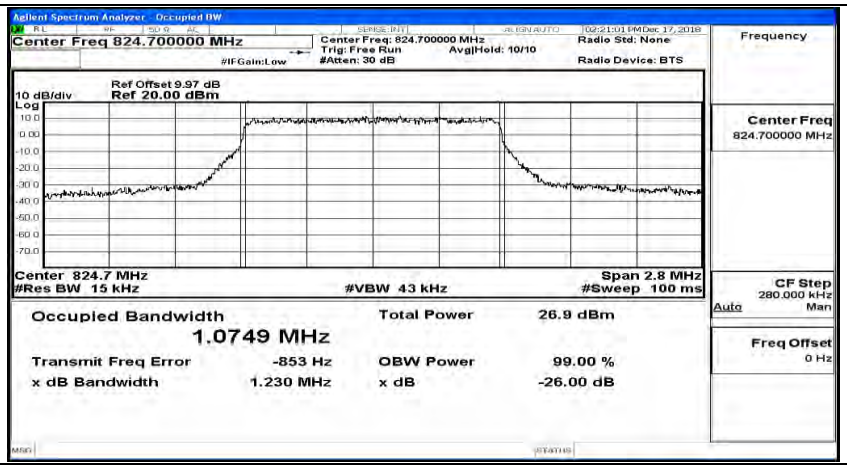
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



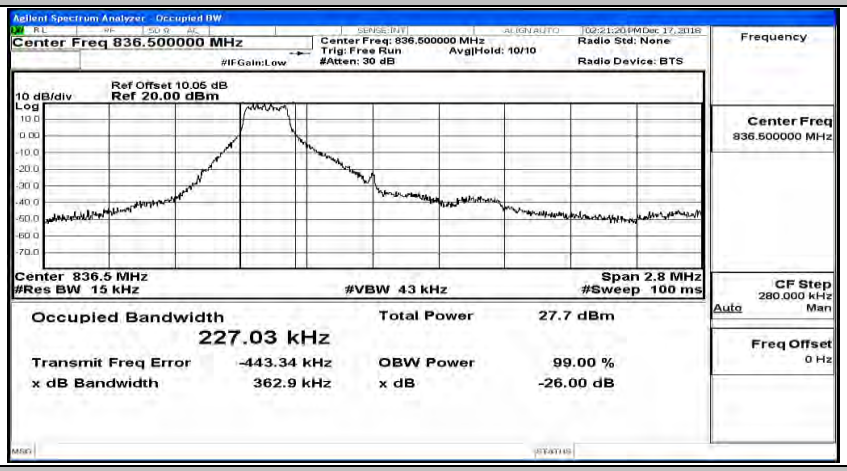
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



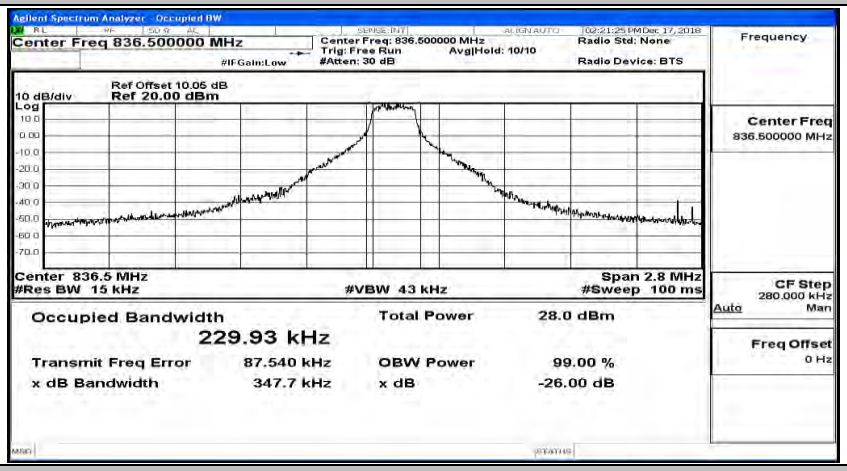
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



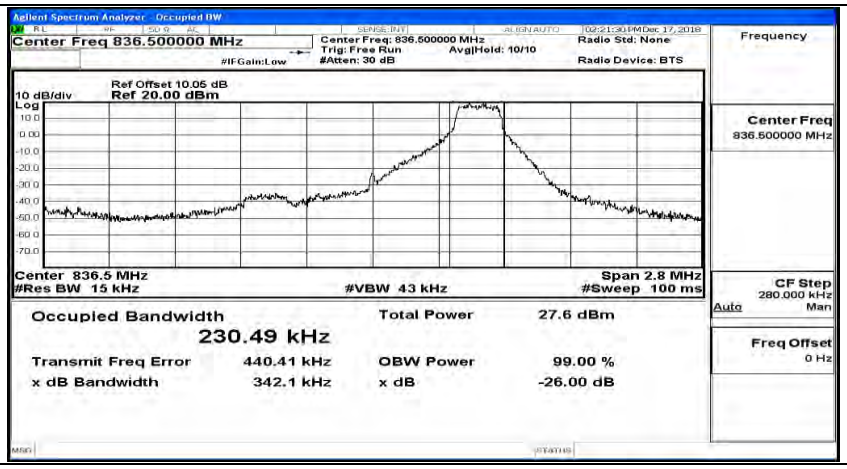
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



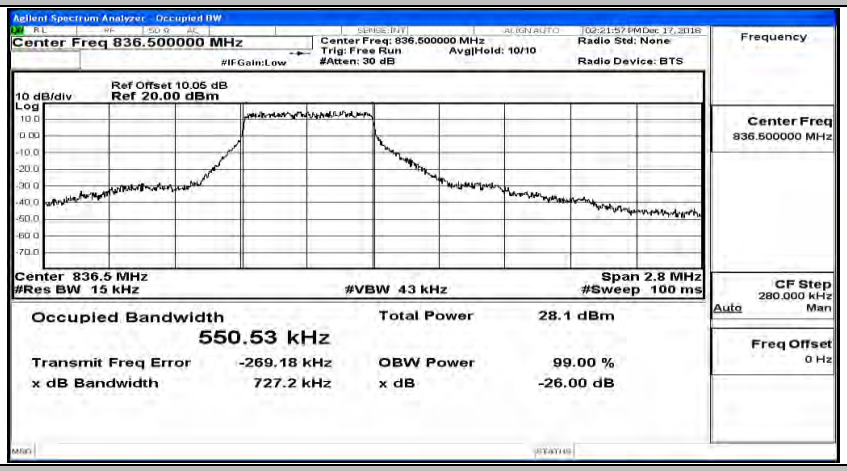
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



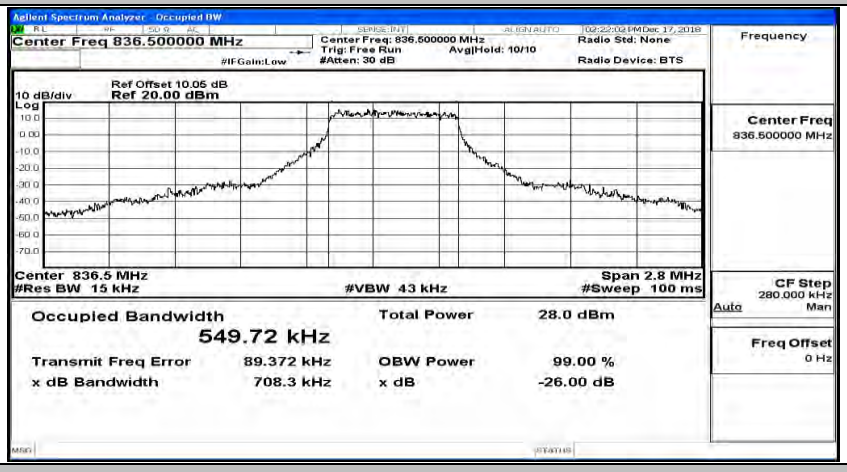
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



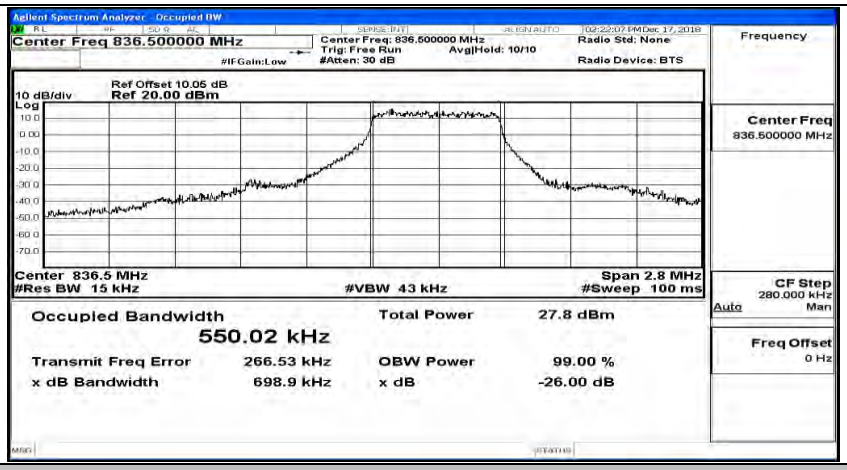
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



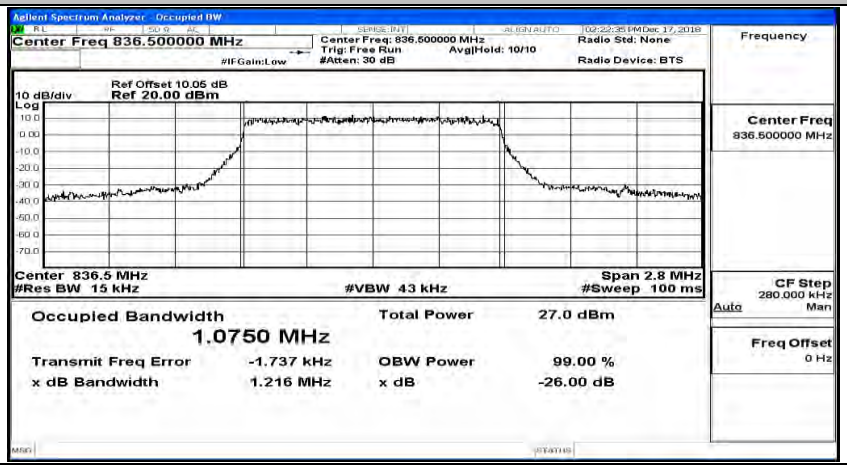
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



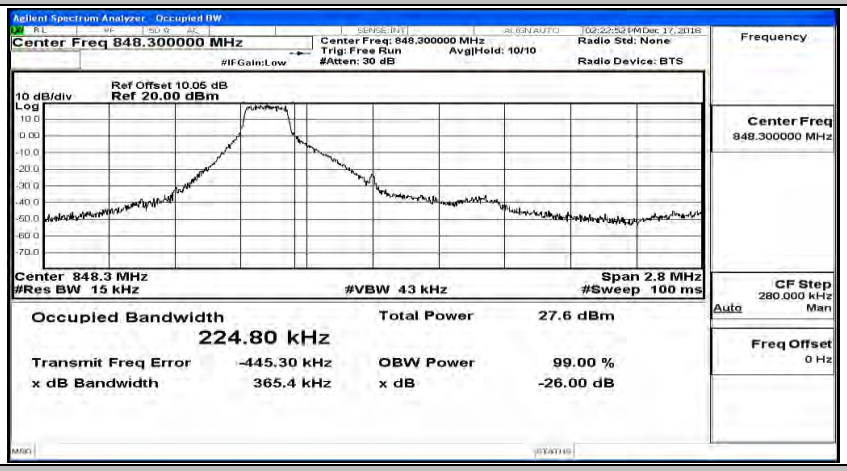
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



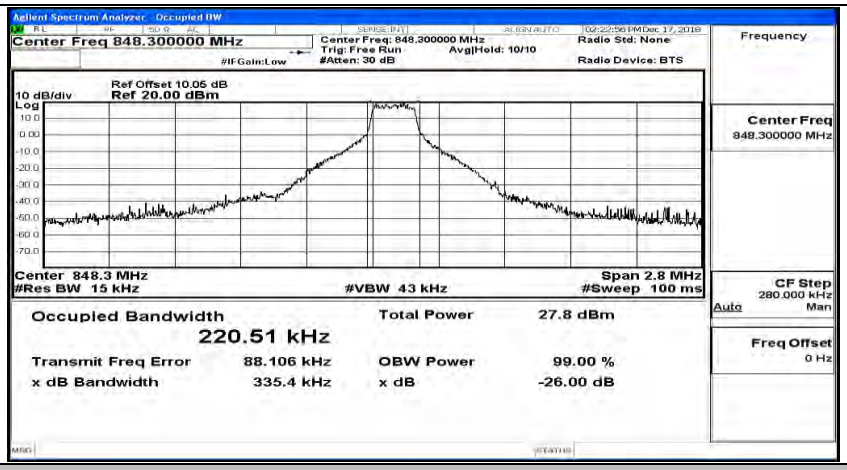
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



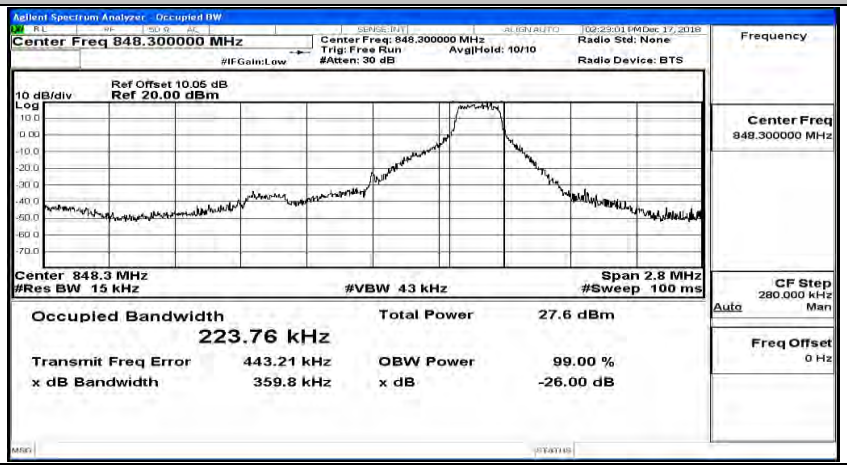
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



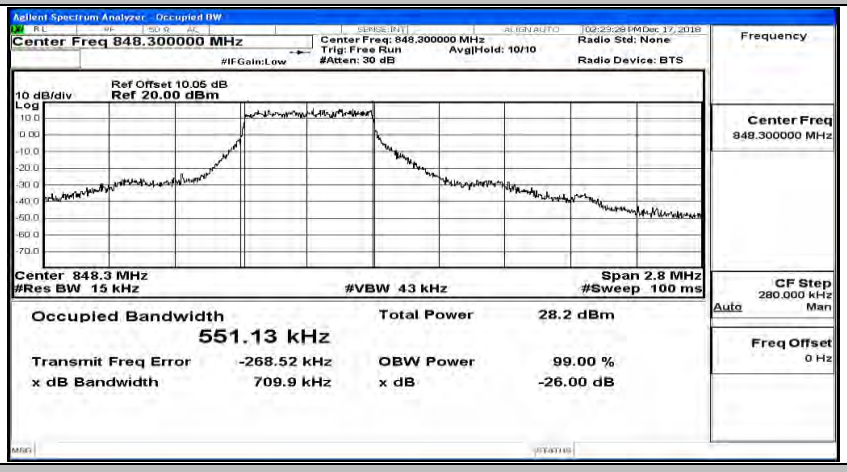
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



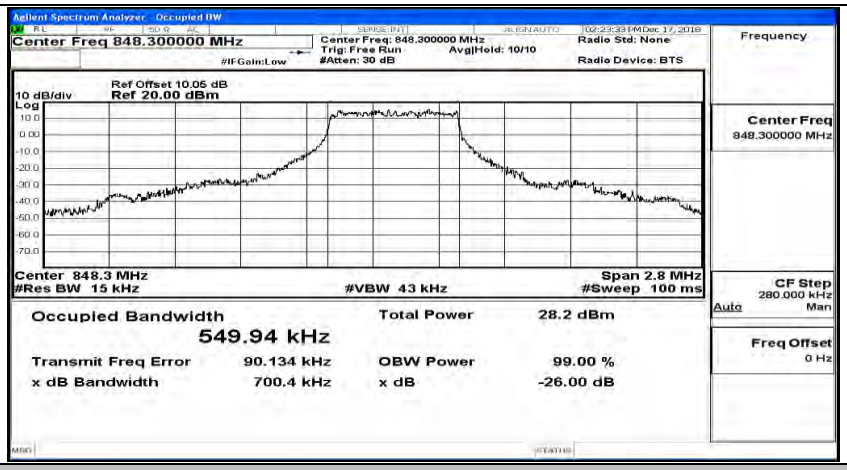
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



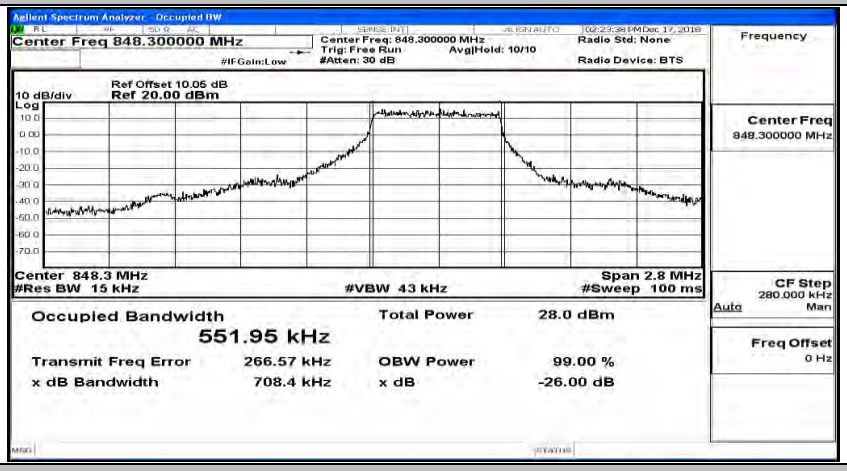
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



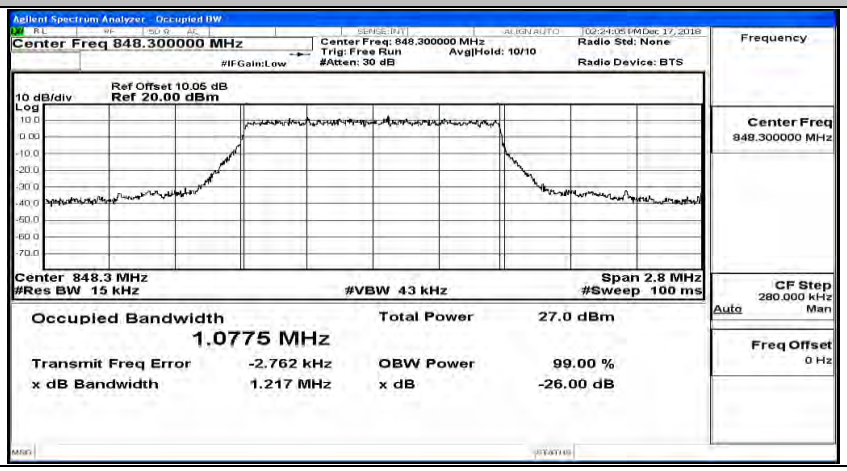
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



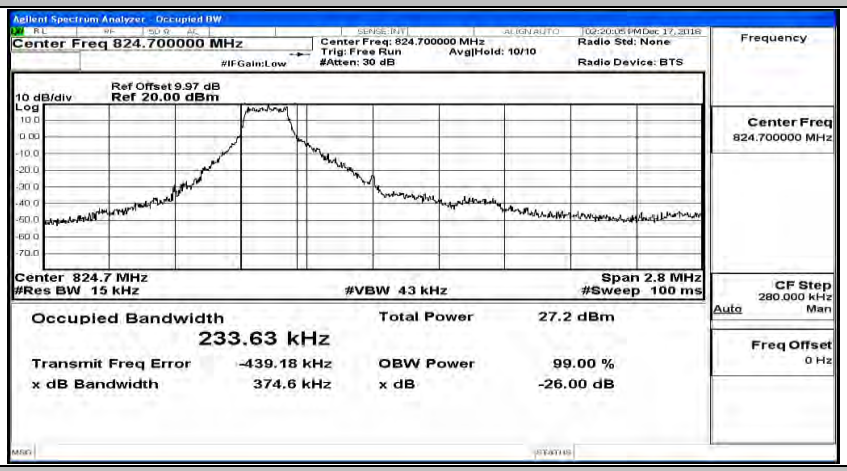
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



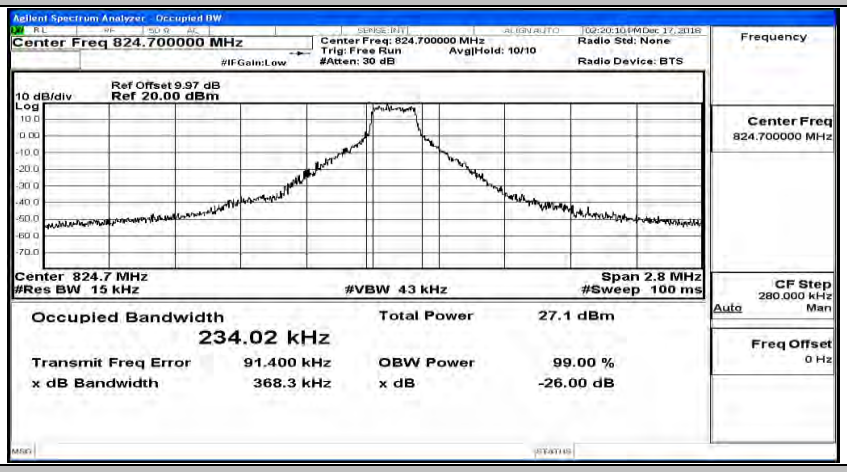
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



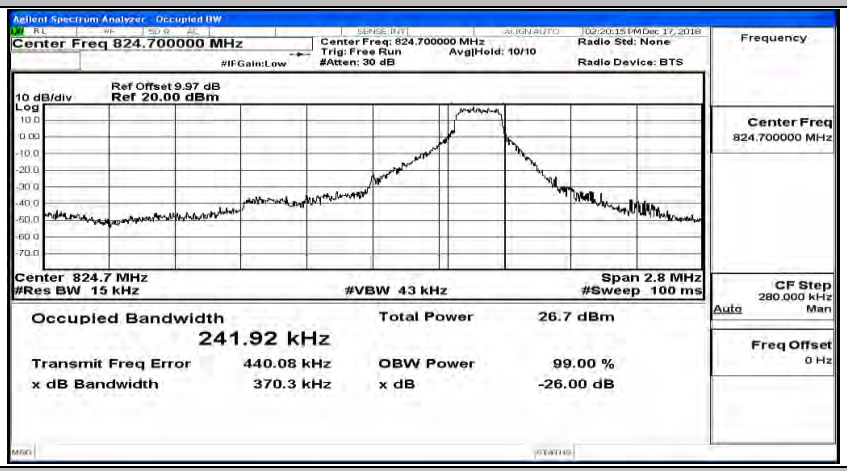
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



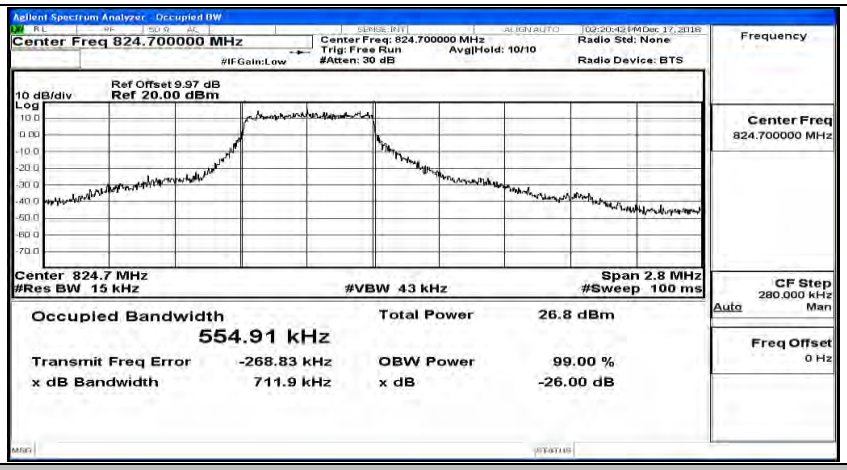
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



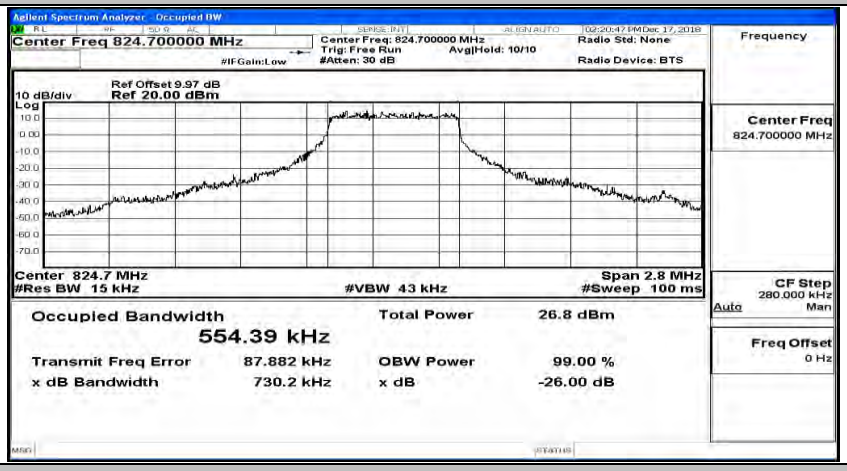
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



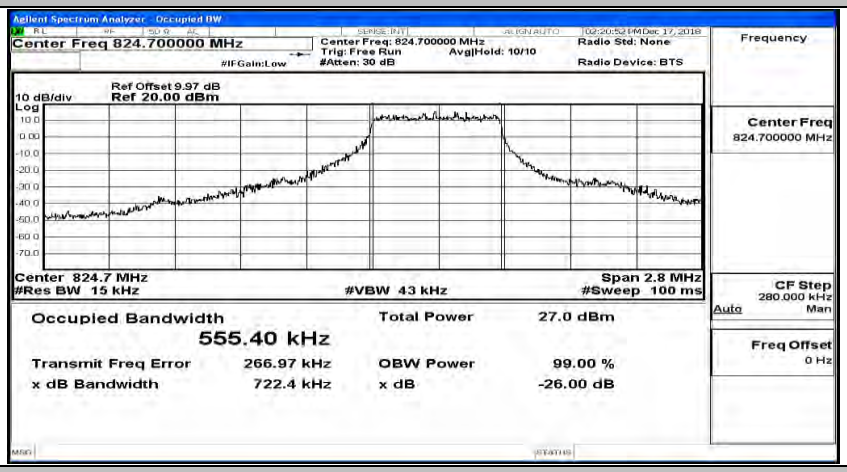
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



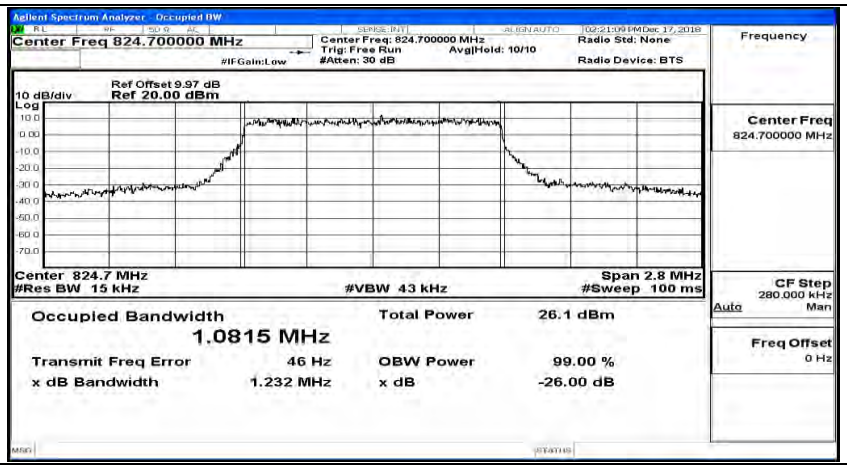
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



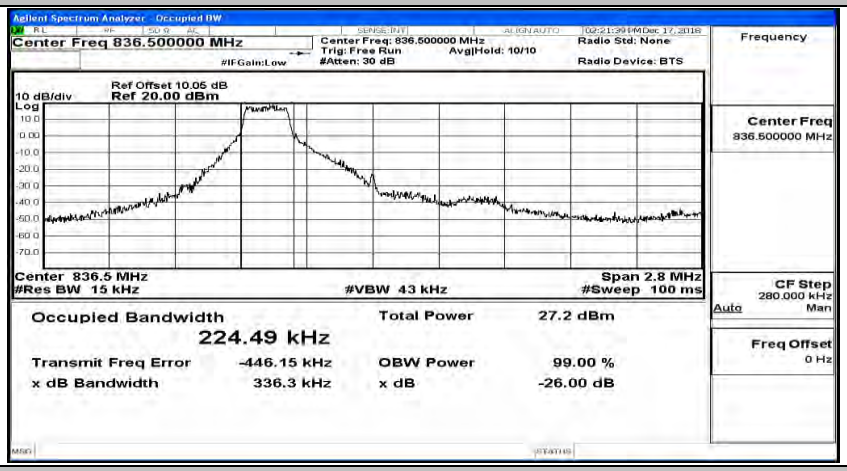
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



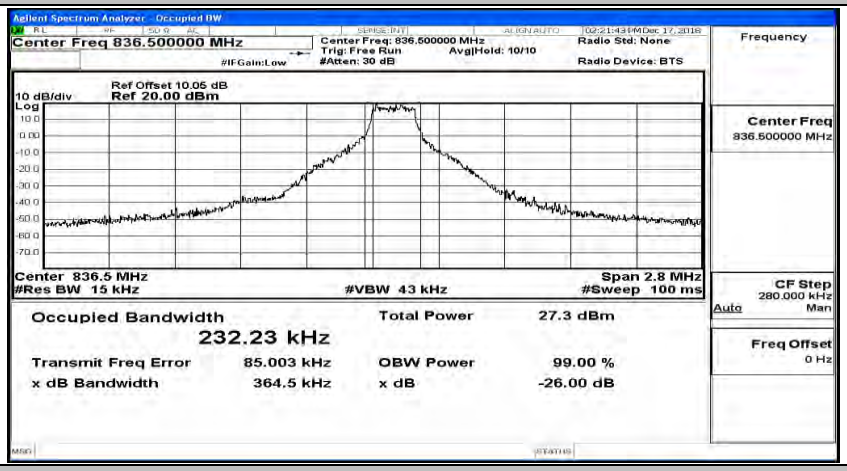
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



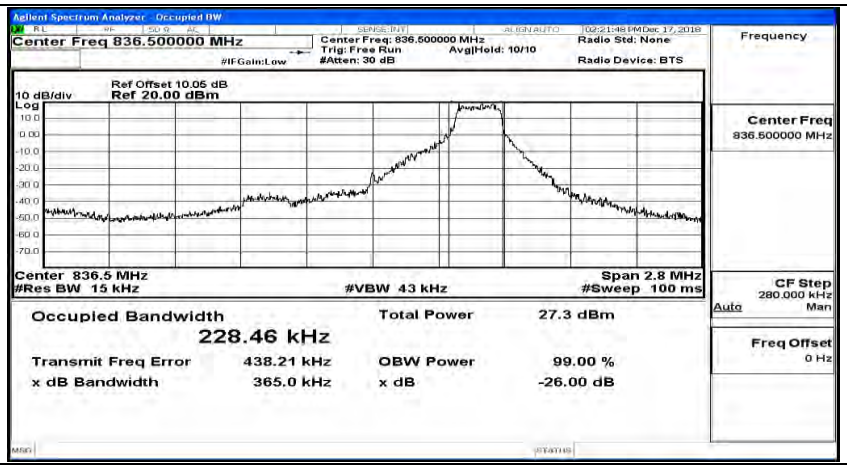
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



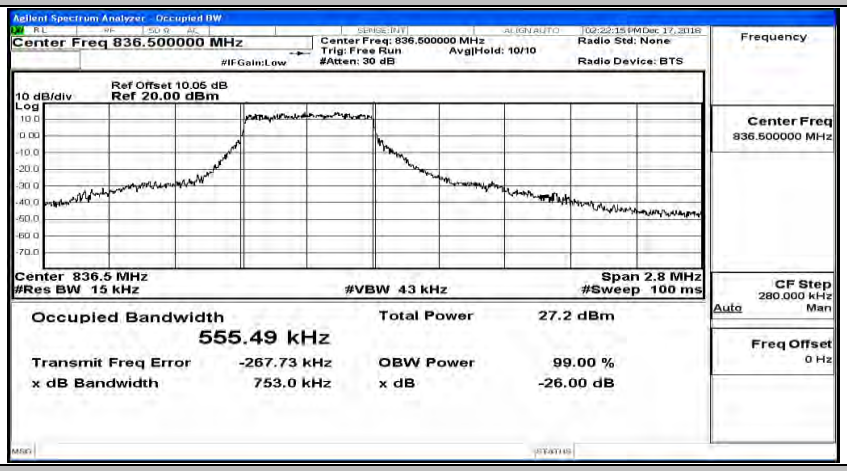
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



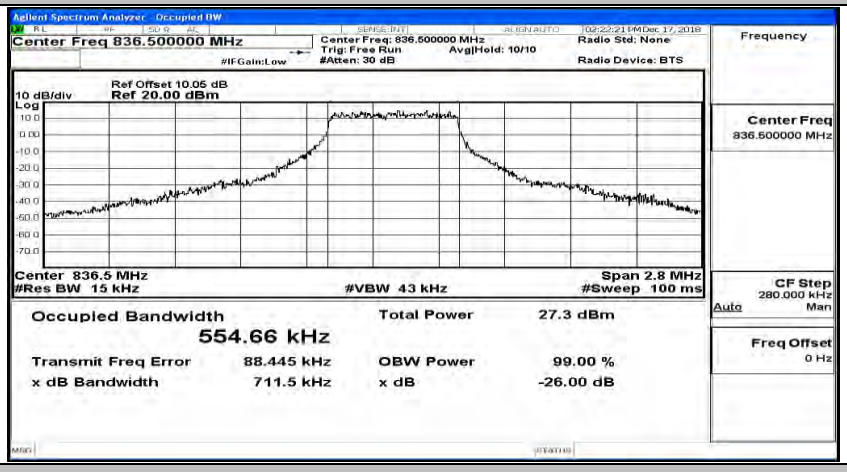
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



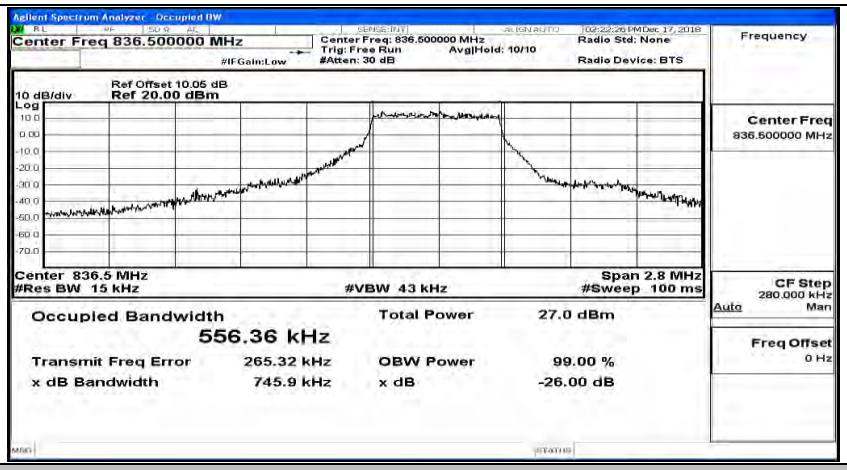
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



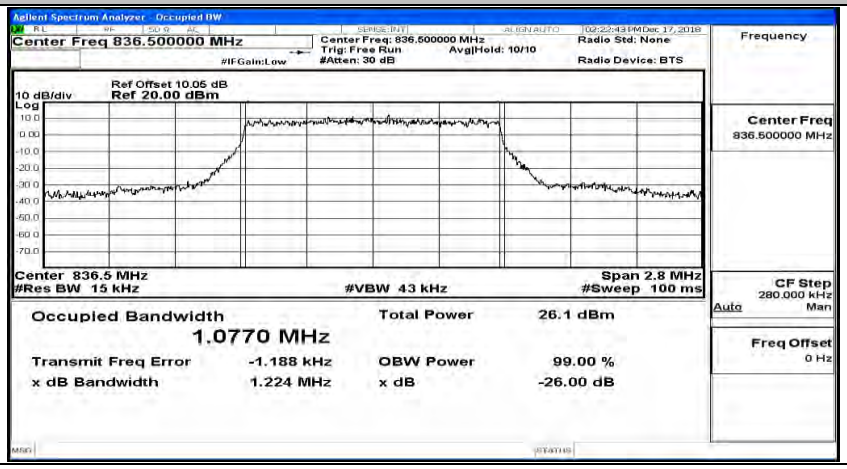
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



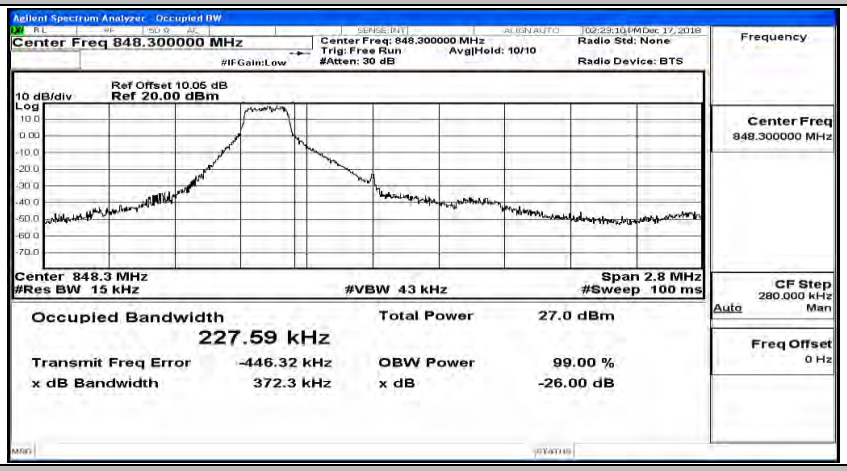
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



(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