Appendix A: Average Output Power Data

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.69	PASS
		1	2	22.91	PASS
		1	5	22.83	PASS
		3	0	22.8	PASS
		3	1	22.88	PASS
		3	3	22.85	PASS
		6	0	21.83	PASS
	MCH	1	0	22.51	PASS
		1	2	22.43	PASS
		1	5	22.44	PASS
		3	0	22.38	PASS
		3	1	22.36	PASS
		3	3	22.34	PASS
		6	0	21.25	PASS
	HCH	1	0	22.53	PASS
		1	2	22.55	PASS
		1	5	22.49	PASS
		3	0	22.47	PASS
		3	1	22.5	PASS
		3	3	22.5	PASS
		6	0	21.35	PASS
16QAM	LCH	1	0	21.93	PASS
		1	2	22.1	PASS
		1	5	22.12	PASS
		3	0	21.89	PASS
		3	1	22	PASS
		3	3	22.01	PASS
		6	0	20.91	PASS
	MCH	1	0	21.66	PASS
		1	2	21.62	PASS
		1	5	21.7	PASS
		3	0	21.51	PASS
		3	1	21.42	PASS

		3	3	21.44	PASS
		6	0	20.88	PASS
	HCH	1	0	21.68	PASS
		1	2	21.76	PASS
		1	5	21.91	PASS
		3	0	21.62	PASS
		3	1	21.58	PASS
		3	3	21.59	PASS
		6	0	20.87	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.77	PASS
		1	7	22.88	PASS
		1	14	22.8	PASS
		8	0	21.81	PASS
		8	3	21.79	PASS
		8	7	21.83	PASS
		15	0	21.81	PASS
	MCH	1	0	22.4	PASS
		1	7	22.42	PASS
		1	14	22.32	PASS
		8	0	21.34	PASS
		8	3	21.41	PASS
		8	7	21.36	PASS
		15	0	21.4	PASS
	HCH	1	0	22.43	PASS
		1	7	22.61	PASS
		1	14	22.47	PASS
		8	0	21.44	PASS
		8	3	21.48	PASS
		8	7	21.49	PASS
		15	0	21.46	PASS
16QAM	LCH	1	0	21.98	PASS
		1	7	22.12	PASS
		1	14	22.03	PASS
		8	0	20.81	PASS
		8	3	20.82	PASS

		8	7	20.85	PASS
		15	0	20.72	PASS
	MCH	1	0	21.59	PASS
		1	7	21.73	PASS
		1	14	21.56	PASS
		8	0	20.37	PASS
		8	3	20.43	PASS
		8	7	20.45	PASS
		15	0	20.37	PASS
	HCH	1	0	21.66	PASS
		1	7	21.94	PASS
		1	14	21.69	PASS
		8	0	20.46	PASS
		8	3	20.48	PASS
		8	7	20.51	PASS
		15	0	20.39	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.76	PASS
		1	12	22.66	PASS
		1	24	22.66	PASS
		12	0	21.86	PASS
		12	6	21.91	PASS
		12	13	21.7	PASS
		25	0	21.71	PASS
	MCH	1	0	22.41	PASS
		1	12	22.23	PASS
		1	24	22.31	PASS
		12	0	21.21	PASS
		12	6	21.4	PASS
		12	13	21.22	PASS
		25	0	21.3	PASS
	HCH	1	0	22.44	PASS
		1	12	22.35	PASS
		1	24	22.48	PASS
		12	0	21.34	PASS
		12	6	21.42	PASS
		12	13	21.38	PASS

		25	0	21.4	PASS
16QAM	LCH	1	0	21.89	PASS
		1	12	21.88	PASS
		1	24	21.75	PASS
		12	0	20.86	PASS
		12	6	20.86	PASS
		12	13	20.72	PASS
		25	0	20.73	PASS
	MCH	1	0	21.86	PASS
		1	12	21.56	PASS
		1	24	21.87	PASS
		12	0	20.22	PASS
		12	6	20.39	PASS
		12	13	20.26	PASS
		25	0	20.28	PASS
	HCH	1	0	21.84	PASS
		1	12	21.75	PASS
		1	24	21.97	PASS
		12	0	20.4	PASS
		12	6	20.46	PASS
		12	13	20.45	PASS
		25	0	20.44	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.77	PASS
		1	24	22.61	PASS
		1	49	22.55	PASS
		25	0	21.68	PASS
		25	12	21.6	PASS
		25	25	21.49	PASS
		50	0	21.62	PASS
	MCH	1	0	22.45	PASS
		1	24	22.35	PASS
		1	49	22.28	PASS
		25	0	21.35	PASS
		25	12	21.38	PASS
		25	25	21.25	PASS
		50	0	21.38	PASS

	HCH	1	0	22.42	PASS
		1	24	22.47	PASS
		1	49	22.5	PASS
		25	0	21.38	PASS
		25	12	21.37	PASS
		25	25	21.43	PASS
		50	0	21.44	PASS
16QAM	LCH	1	0	21.84	PASS
		1	24	21.88	PASS
		1	49	21.7	PASS
		25	0	20.7	PASS
		25	12	20.61	PASS
		25	25	20.54	PASS
		50	0	20.64	PASS
	MCH	1	0	21.72	PASS
		1	24	21.54	PASS
		1	49	21.45	PASS
		25	0	20.34	PASS
		25	12	20.41	PASS
		25	25	20.29	PASS
		50	0	20.37	PASS
	HCH	1	0	21.59	PASS
		1	24	21.6	PASS
		1	49	21.69	PASS
		25	0	20.41	PASS
		25	12	20.35	PASS
		25	25	20.43	PASS
		50	0	20.38	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.79	PASS
		1	37	22.67	PASS
		1	74	22.65	PASS
		36	0	21.6	PASS
		36	19	21.68	PASS
		36	39	21.41	PASS
		75	0	21.67	PASS
	MCH	1	0	22.39	PASS

		1	37	22.25	PASS
		1	74	22.33	PASS
		36	0	21.11	PASS
		36	19	21.37	PASS
		36	39	21.18	PASS
		75	0	21.3	PASS
	HCH	1	0	22.36	PASS
		1	37	22.34	PASS
		1	74	22.28	PASS
		36	0	21.27	PASS
		36	19	21.35	PASS
		36	39	21.33	PASS
		75	0	21.39	PASS
16QAM	LCH	1	0	21.92	PASS
		1	37	21.9	PASS
		1	74	21.61	PASS
		36	0	20.66	PASS
		36	19	20.69	PASS
		36	39	20.52	PASS
		75	0	20.71	PASS
	MCH	1	0	21.64	PASS
		1	37	21.58	PASS
		1	74	21.49	PASS
		36	0	20.38	PASS
		36	19	20.36	PASS
		36	39	20.35	PASS
		75	0	20.32	PASS
	HCH	1	0	21.8	PASS
		1	37	21.63	PASS
		1	74	21.37	PASS
		36	0	20.4	PASS
		36	19	20.39	PASS
		36	39	20.39	PASS
		75	0	20.46	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	MCH	1	0	4.87	<13	PASS
16QAM	MCH	1	0	5.61	<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	MCH	1	0	4.74	<13	PASS
16QAM	MCH	1	0	5.52	<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	MCH	1	0	4.69	<13	PASS
16QAM	MCH	1	0	5.65	<13	PASS

Channel Bandwidth: 10 MHz

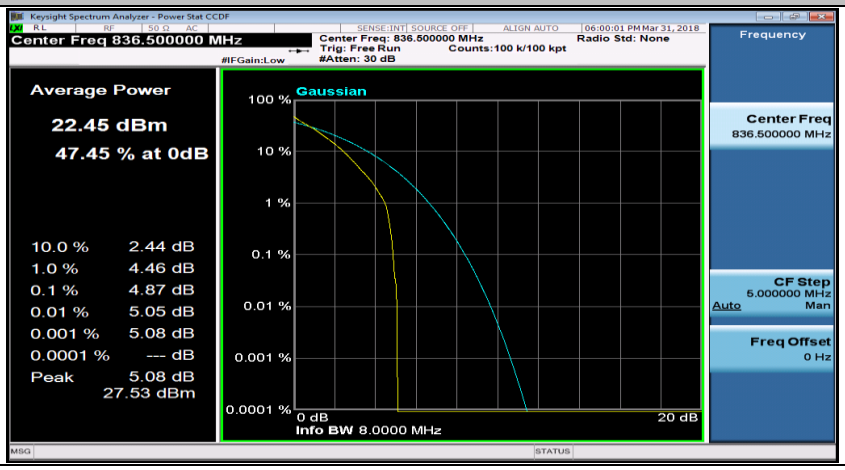
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	4.93	<13	PASS
16QAM	MCH	1	0	5.86	<13	PASS

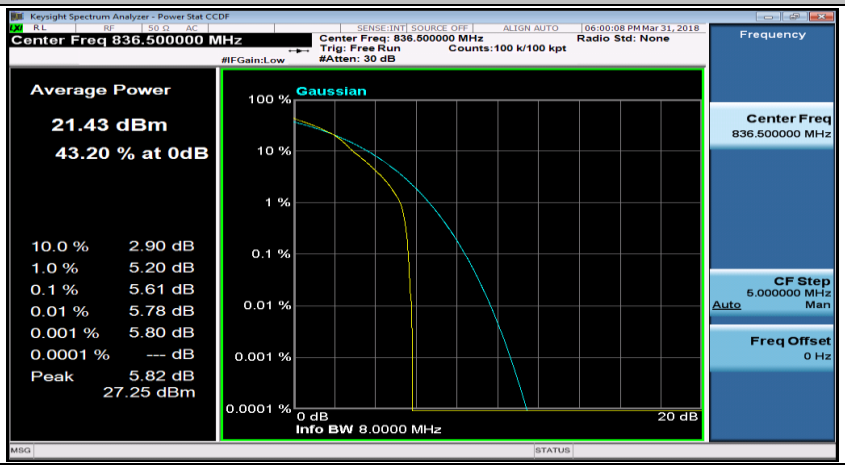
Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	4.69	<13	PASS
16QAM	MCH	1	0	4.10	<13	PASS

Test Graphs

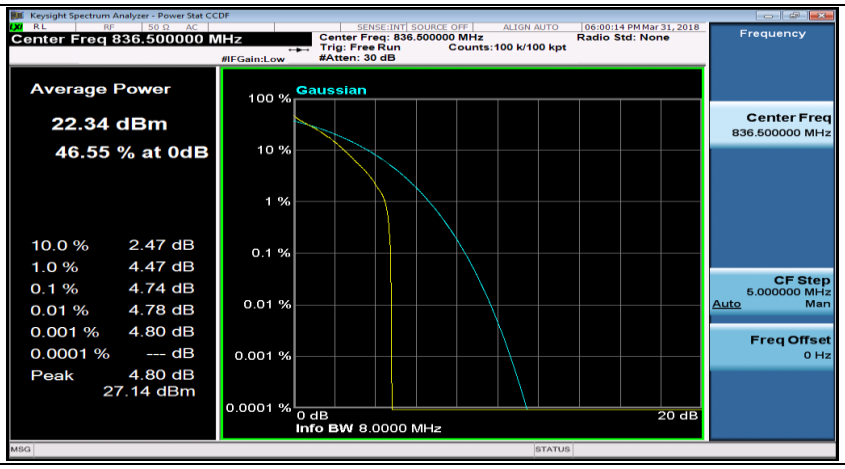
Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0


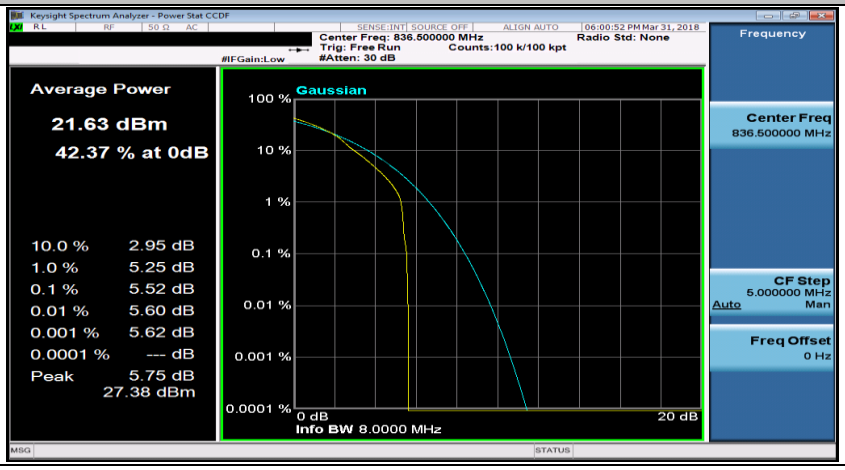
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0


Channel Bandwidth: 3 MHz

(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

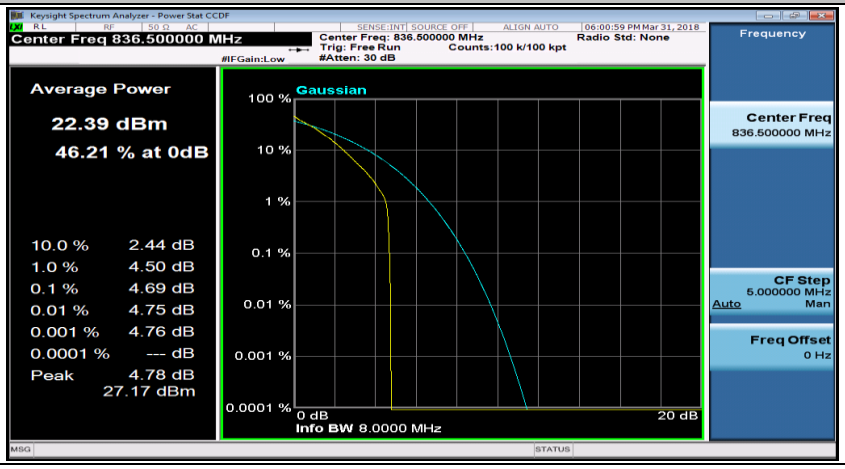


(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0

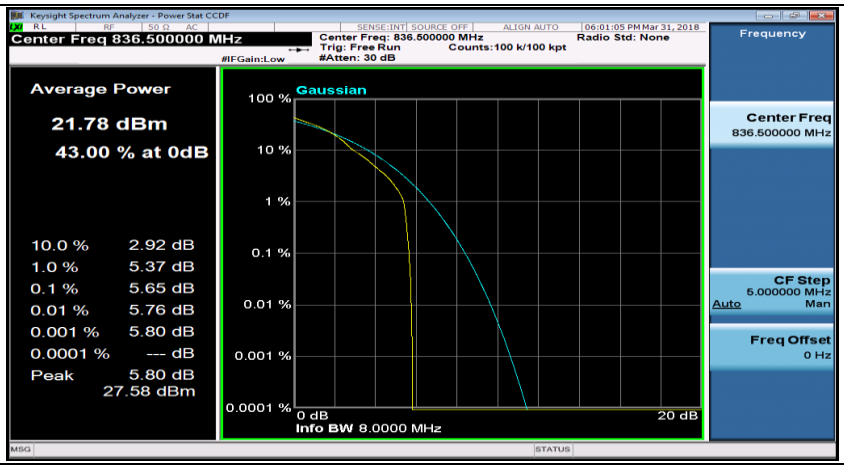


Channel Bandwidth: 5 MHz

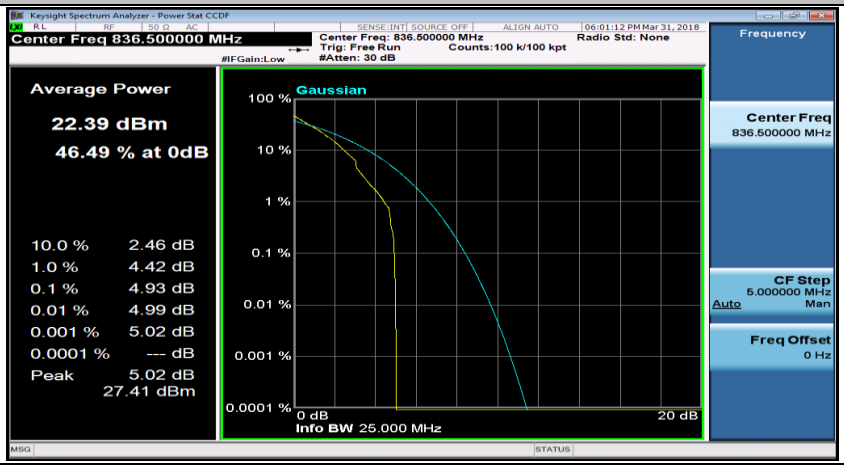
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



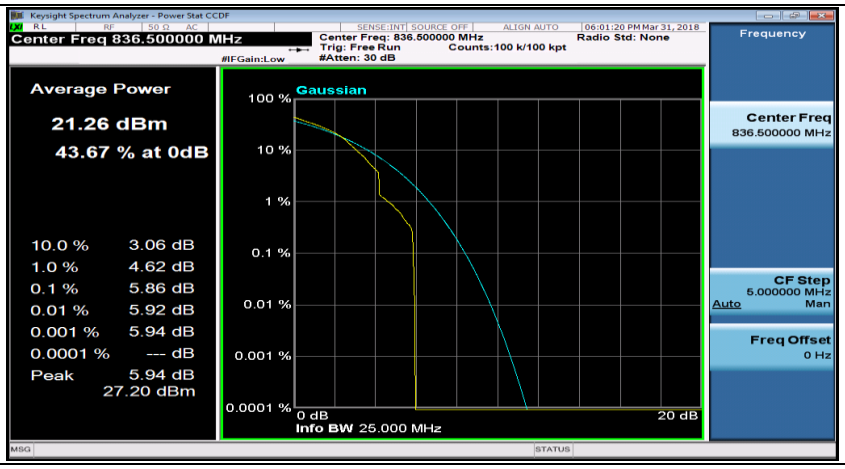
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0



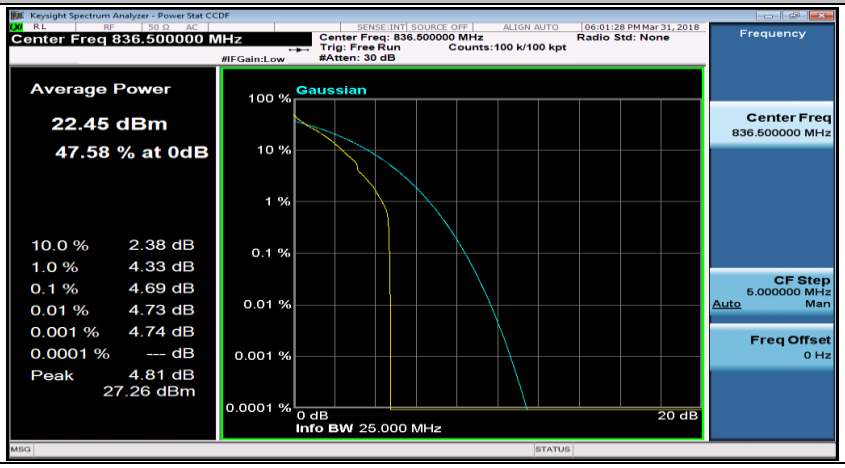
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0


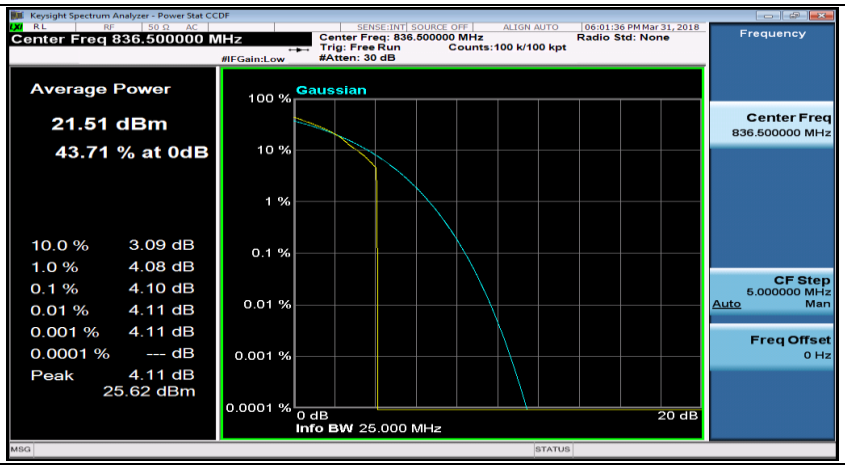
Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0


(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0


Keysight Spectrum Analyzer - Power Stat CCDF
Center Freq 836.500000 MHz
Center Freq: 836.500000 MHz
Trig: Free Run
#Atten: 30 dB
Counts:100 k/100 kpt
Radio Std: None
#IFGain:Low
Frequency
Average Power
21.51 dBm
43.71 % at 0dB
10.0 % 3.09 dB
1.0 % 4.08 dB
0.1 % 4.10 dB
0.01 % 4.11 dB
0.001 % 4.11 dB
0.0001 % --- dB
Peak 4.11 dB
25.62 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
Center Freq
836.500000 MHz
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Appendix C: 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	6	0	1.0746	1.195	PASS
	MCH	6	0	1.0752	1.194	PASS
	HCH	6	0	1.0757	1.196	PASS
16QAM	LCH	6	0	1.0771	1.198	PASS
	MCH	6	0	1.0761	1.201	PASS
	HCH	6	0	1.0766	1.196	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	15	0	2.6872	2.908	PASS
	MCH	15	0	2.6895	2.882	PASS
	HCH	15	0	2.6885	2.923	PASS
16QAM	LCH	15	0	2.6846	2.886	PASS
	MCH	15	0	2.6877	2.892	PASS
	HCH	15	0	2.6876	2.900	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4708	4.768	PASS
	MCH	25	0	4.4761	4.799	PASS
	HCH	25	0	4.4770	4.768	PASS

16QAM	LCH	25	0	4.4807	4.811	PASS
	MCH	25	0	4.4861	4.825	PASS
	HCH	25	0	4.4960	4.794	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9270	9.442	PASS
	MCH	50	0	8.9446	9.382	PASS
	HCH	50	0	8.9130	9.358	PASS
16QAM	LCH	50	0	8.9391	9.364	PASS
	MCH	50	0	8.9580	9.440	PASS
	HCH	50	0	8.9101	9.377	PASS

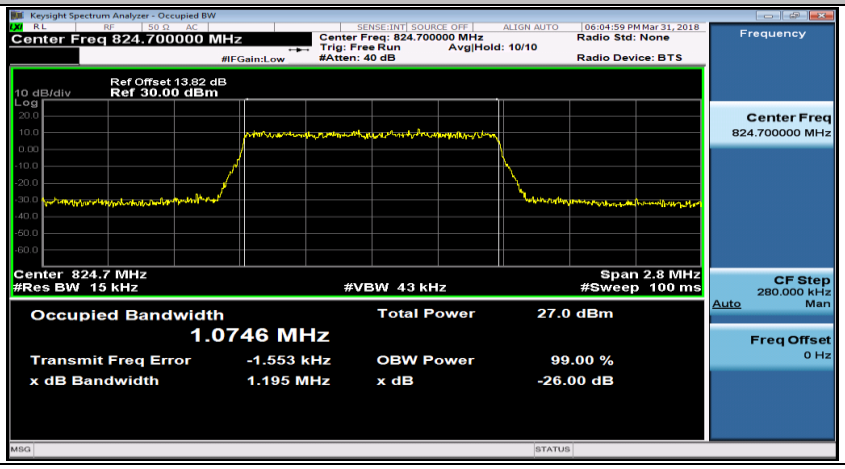
Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	75	0	13.463	14.02	PASS
	MCH	75	0	13.424	14.03	PASS
	HCH	75	0	13.347	13.96	PASS
16QAM	LCH	75	0	13.445	14.06	PASS
	MCH	75	0	13.425	14.00	PASS
	HCH	75	0	13.344	13.91	PASS

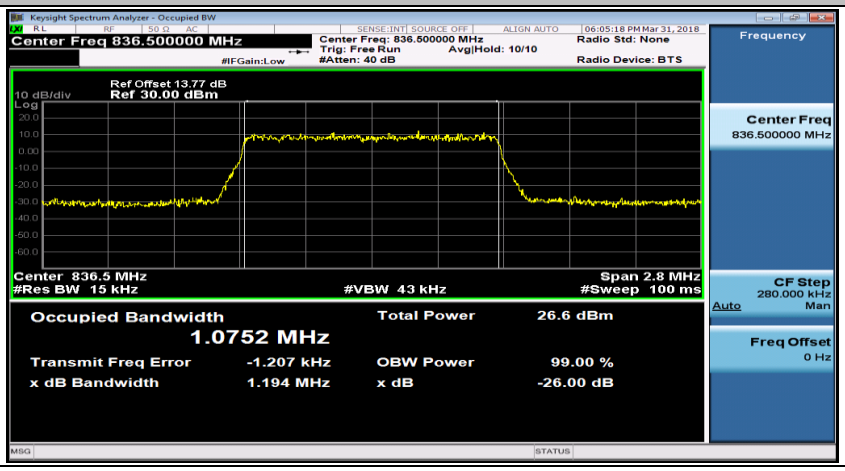
Test Graphs

Channel Bandwidth: 1.4 MHz

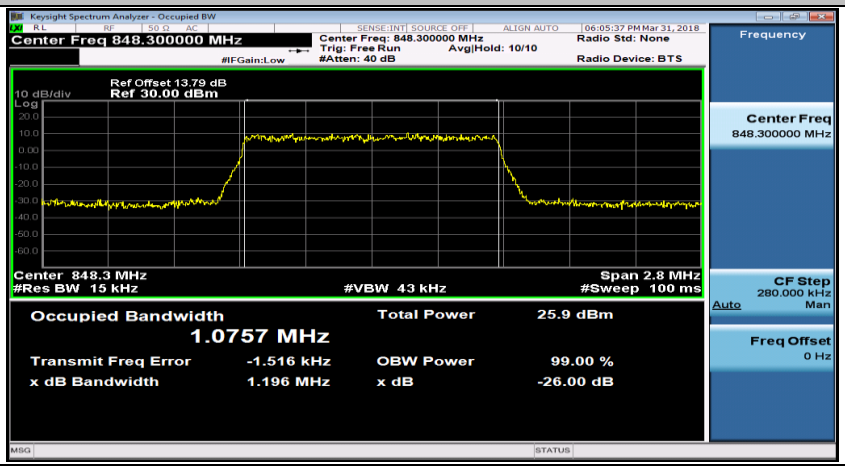
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

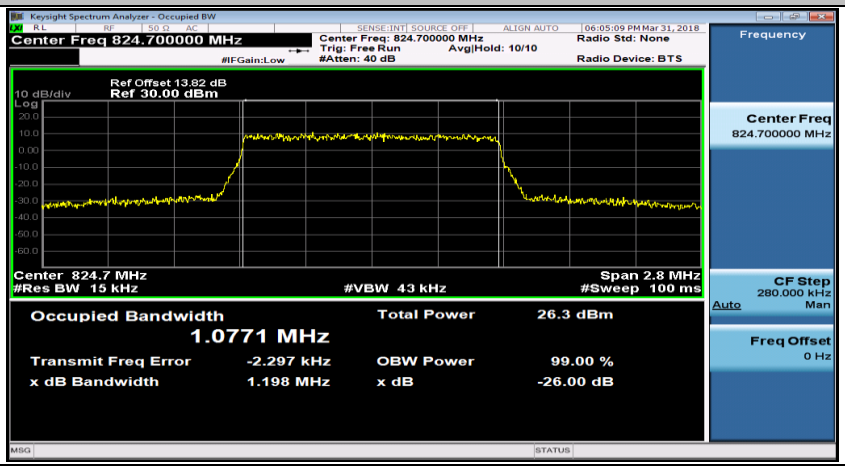


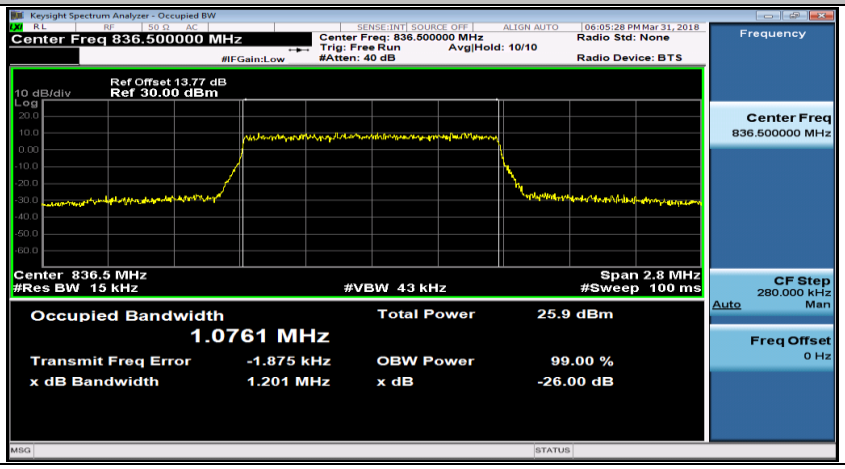
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0

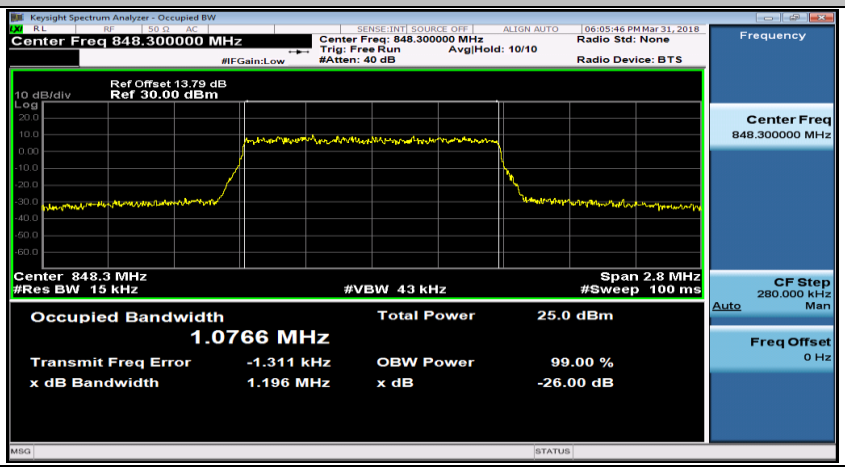


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



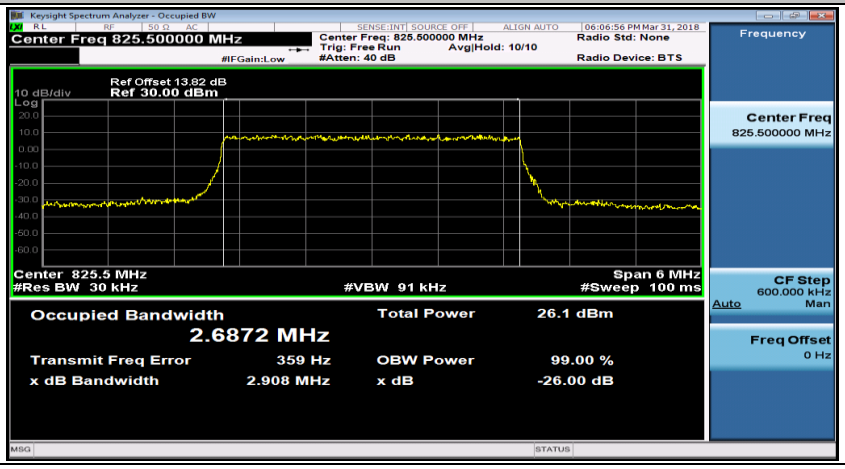
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0


(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0


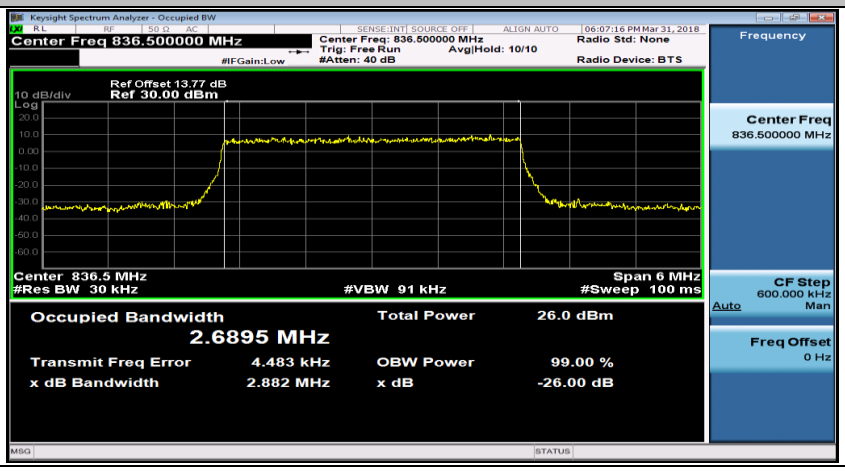
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0


Channel Bandwidth: 3 MHz

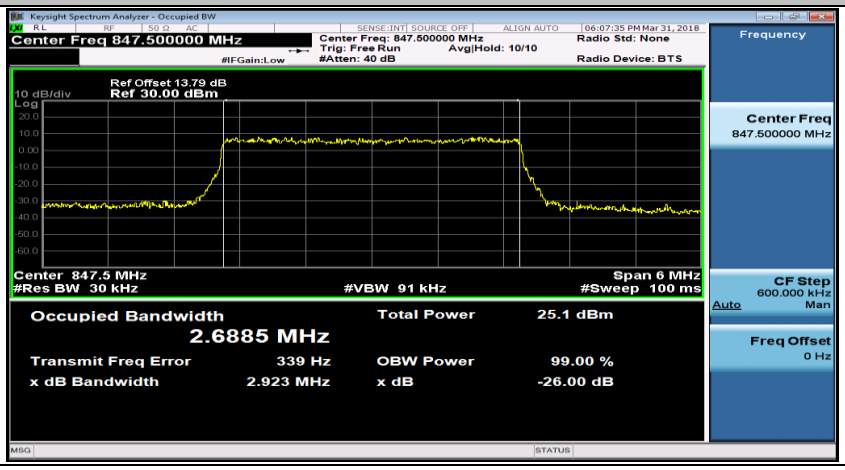
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

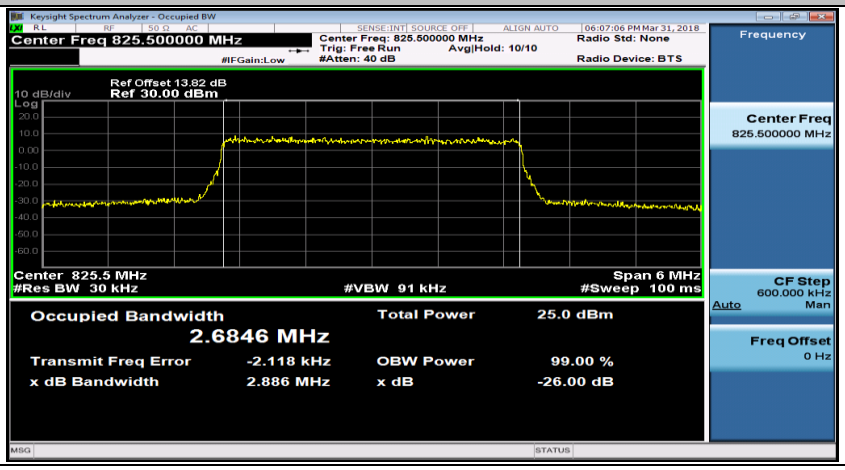


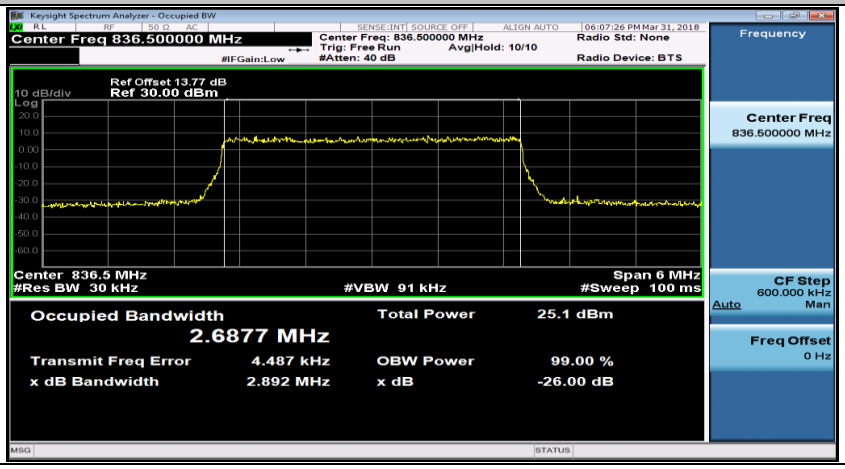
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0

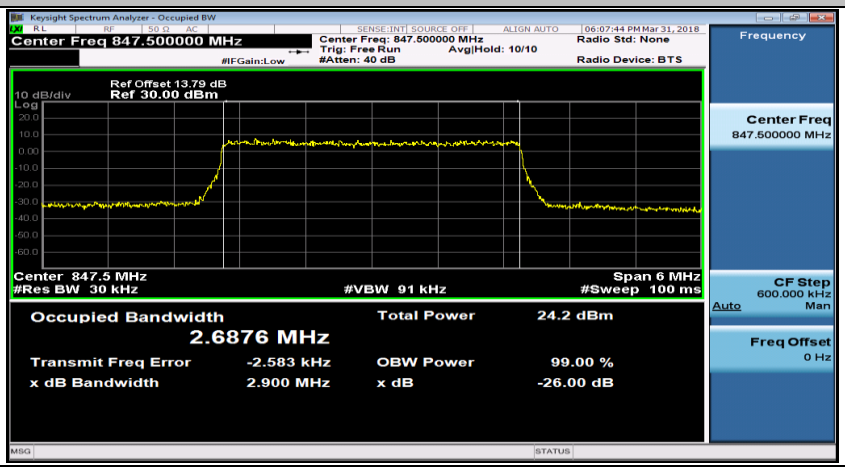


(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



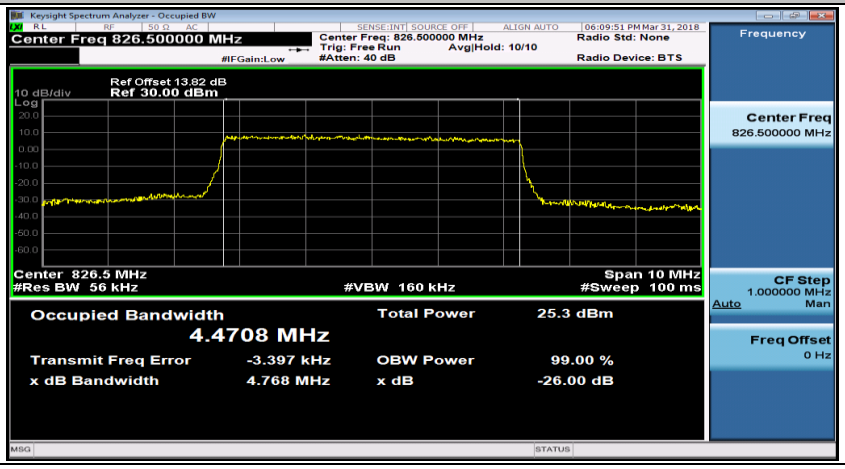
(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0


(Channel Bandwidth: 3 MHz)_MCH_16QAM_15RB#0


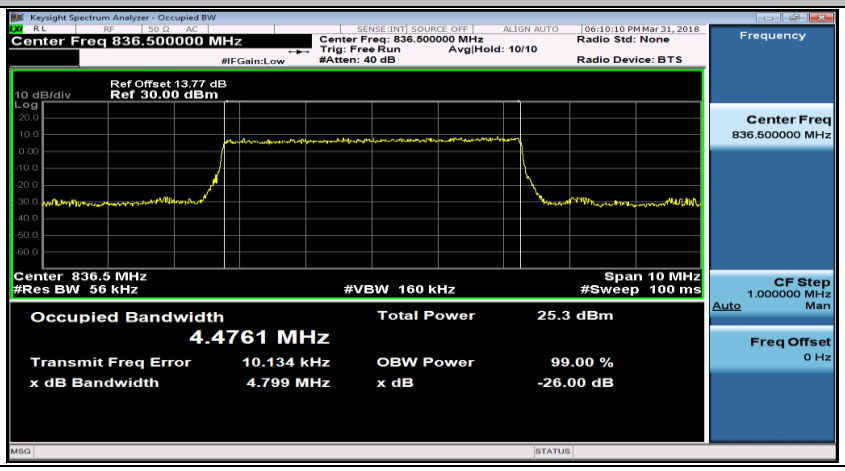
(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0


Channel Bandwidth: 5 MHz

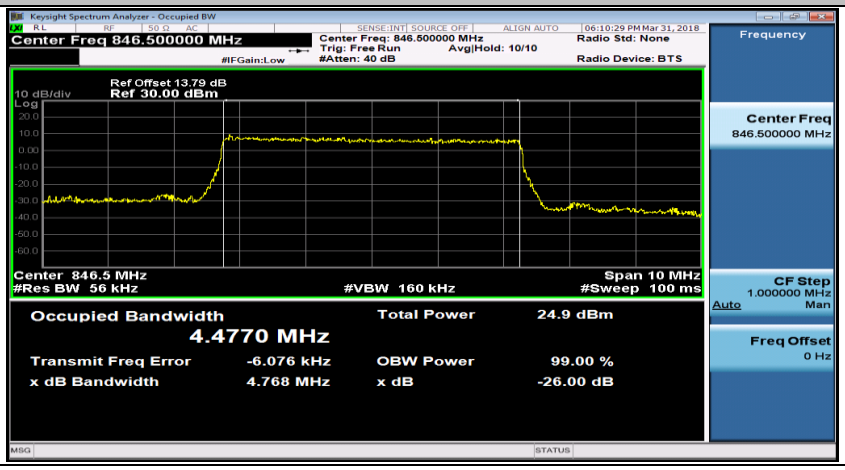
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



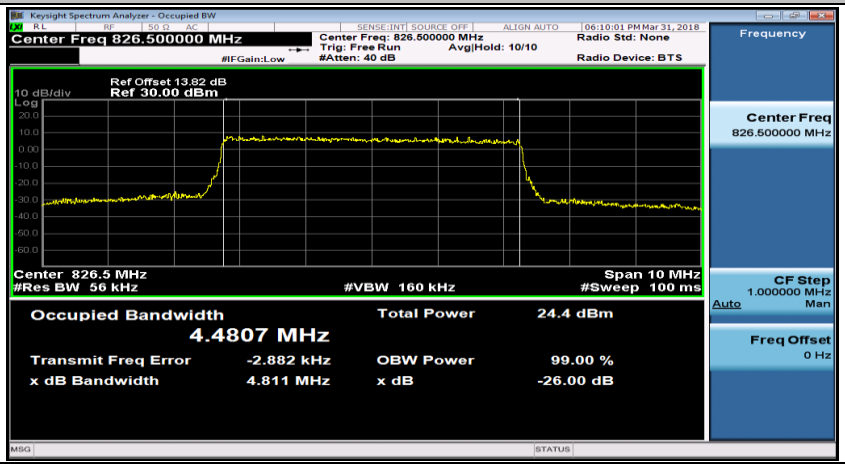
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



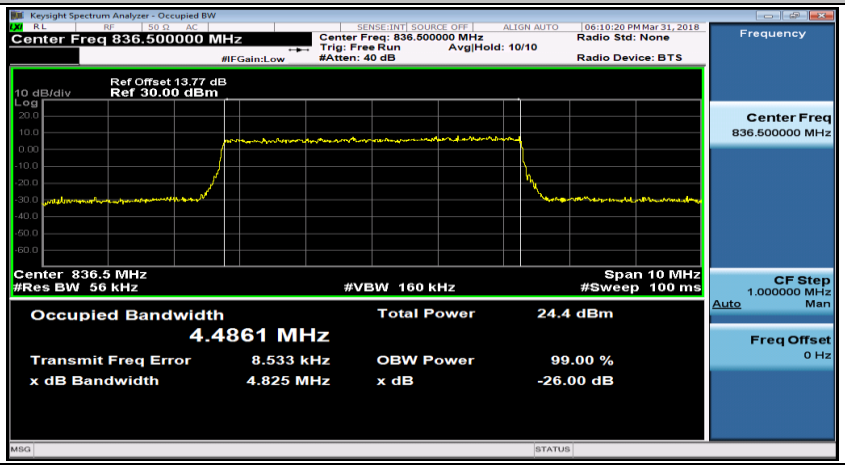
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



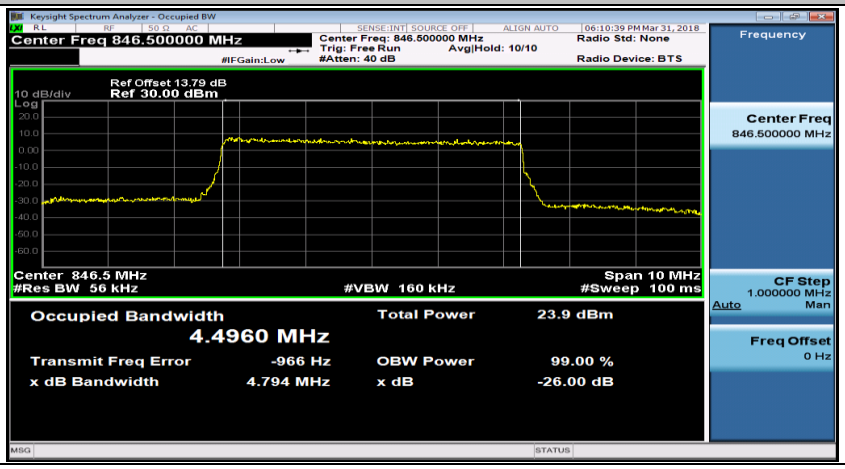
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

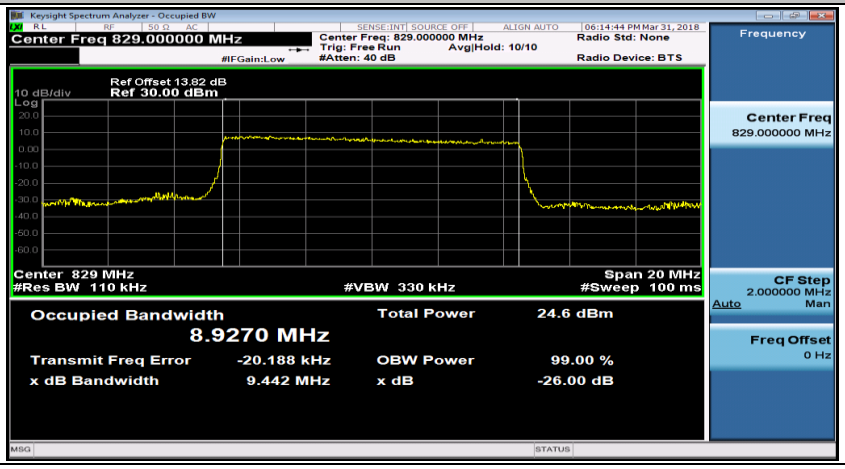


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

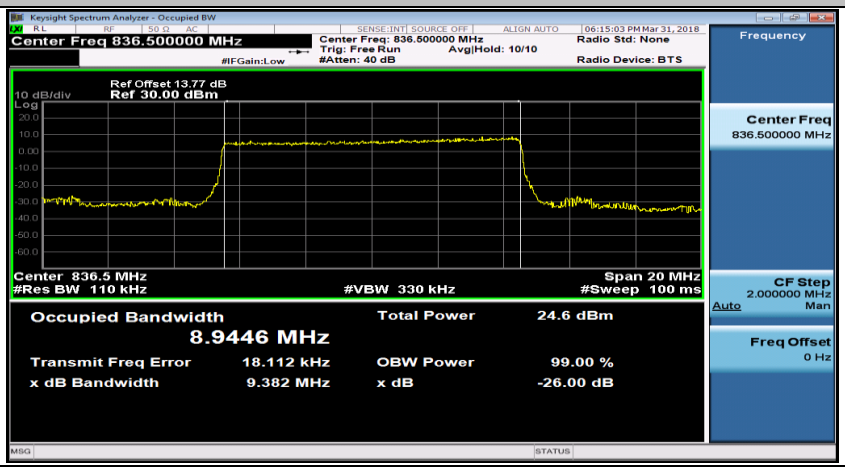


Channel Bandwidth: 10 MHz

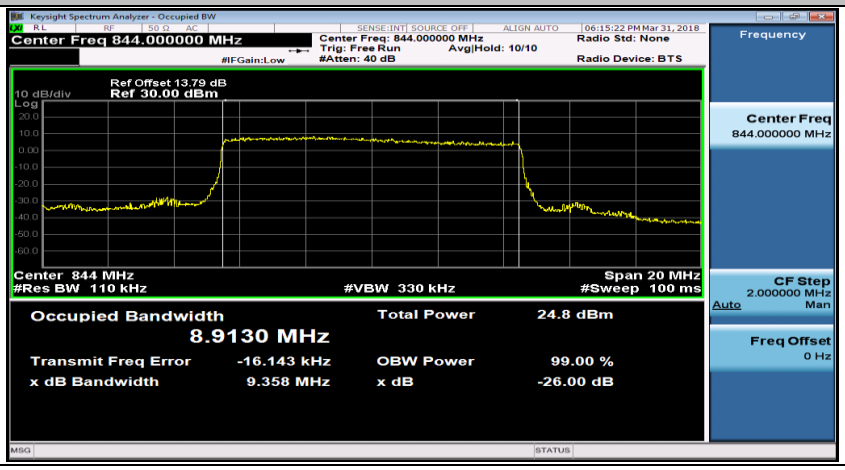
(Channel Bandwidth: 10 MHz)_LCH_QPSK_50RB#0



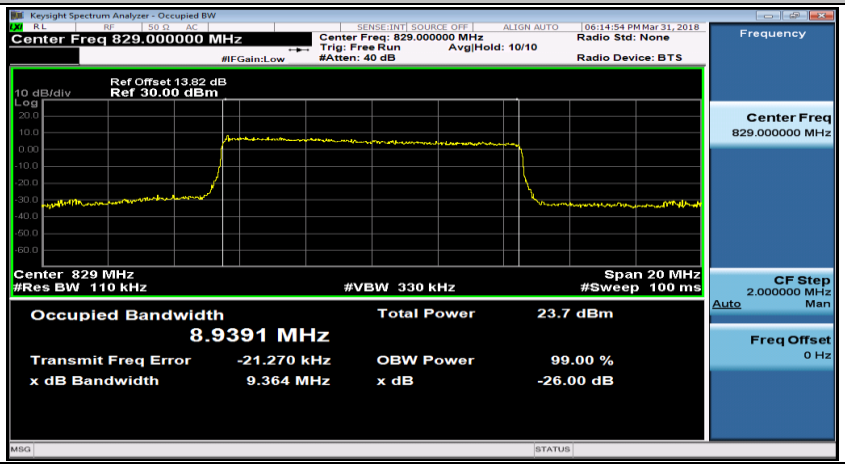
(Channel Bandwidth: 10 MHz)_MCH_QPSK_50RB#0



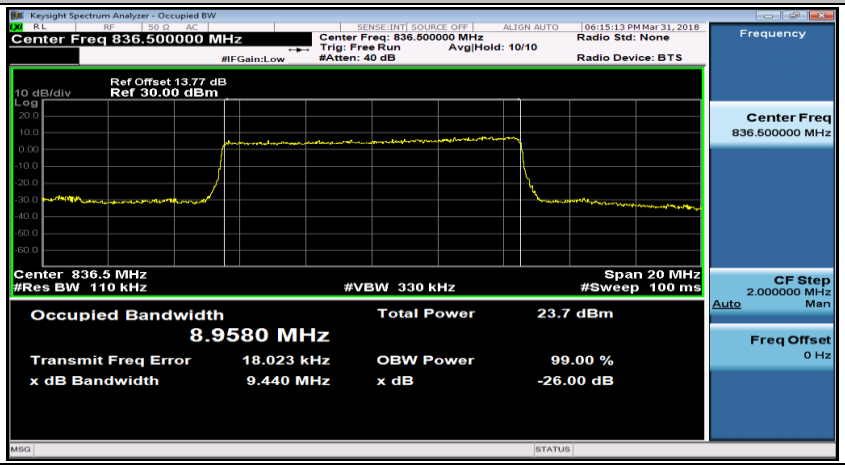
(Channel Bandwidth: 10 MHz)_HCH_QPSK_50RB#0



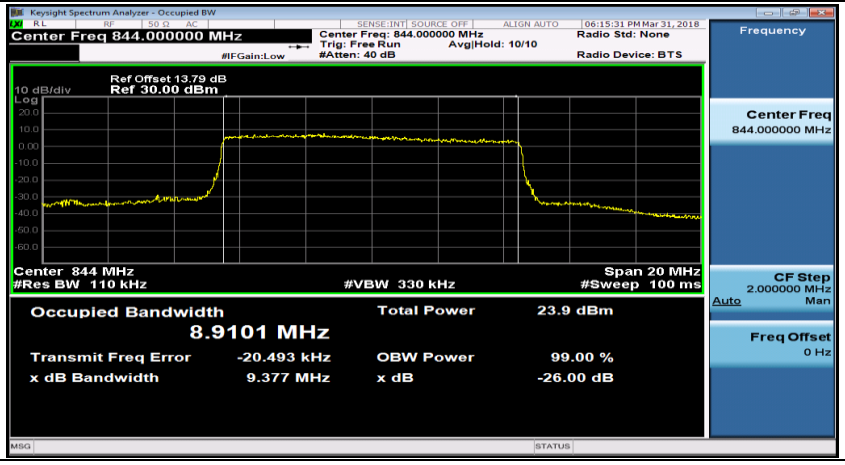
(Channel Bandwidth: 10 MHz)_LCH_16QAM_50RB#0



(Channel Bandwidth: 10 MHz)_MCH_16QAM_50RB#0

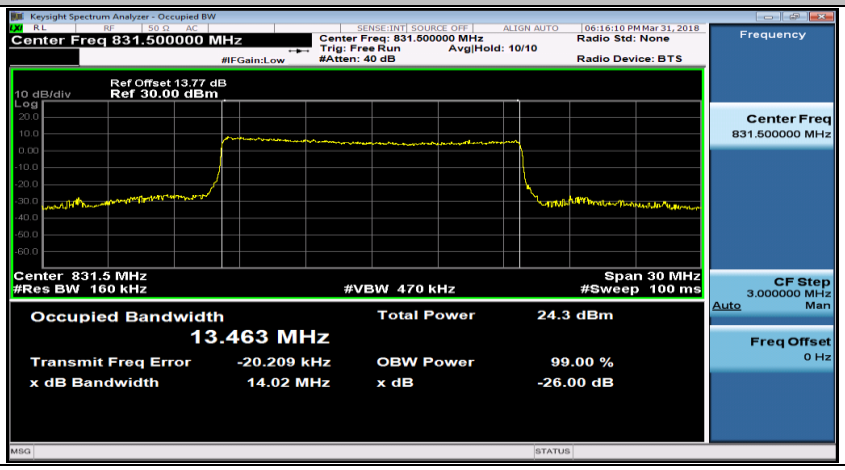


(Channel Bandwidth: 10 MHz)_HCH_16QAM_50RB#0

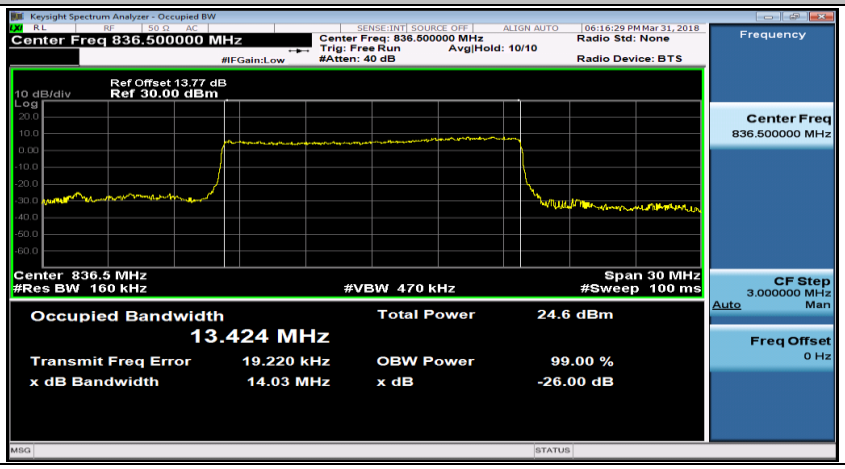


Channel Bandwidth: 15 MHz

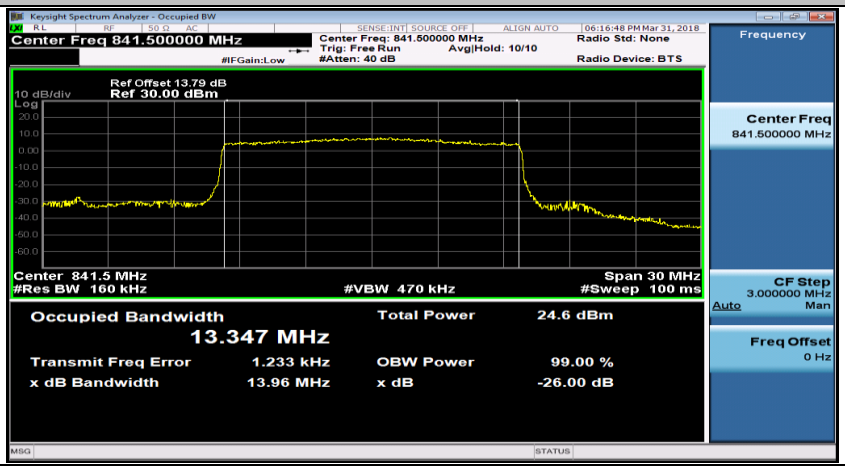
(Channel Bandwidth: 15 MHz)_LCH_QPSK_75RB#0



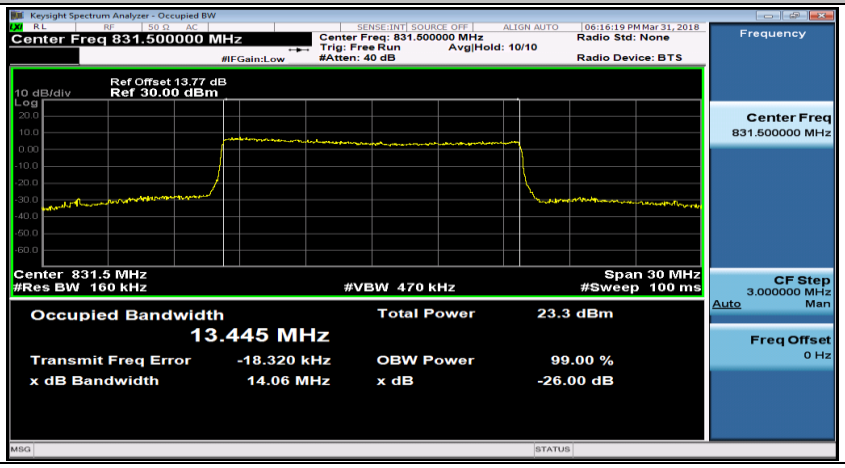
(Channel Bandwidth: 15 MHz)_MCH_QPSK_75RB#0



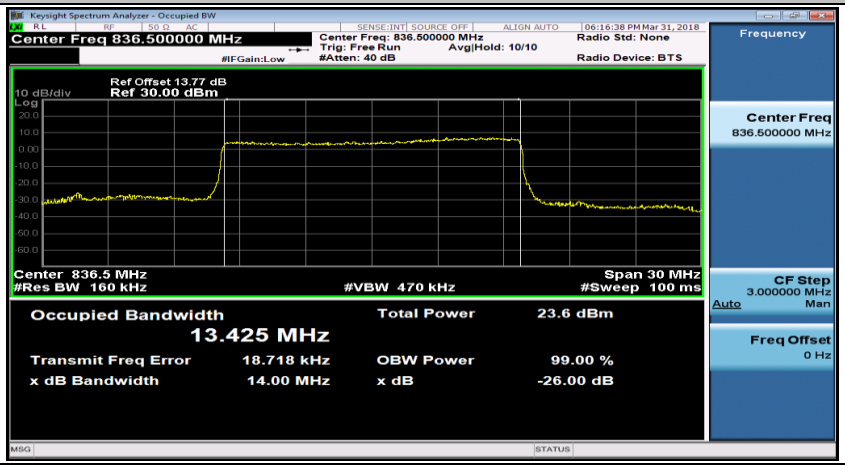
(Channel Bandwidth: 15 MHz)_HCH_QPSK_75RB#0



(Channel Bandwidth: 15 MHz)_LCH_16QAM_75RB#0



(Channel Bandwidth: 15 MHz)_MCH_16QAM_75RB#0



(Channel Bandwidth: 15 MHz)_HCH_16QAM_75RB#0