Appendix F: Test Data for E-UTRA Band 5

Product Name: 4G PHONE
Test Model: BSCUS01

Environmental Conditions

Temperature:	24.9 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

F.1 Conducted Output Power

<SIM1>

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	23.52	22.74	PASS
		1	3	23.54	22.79	PASS
		1	5	23.38	22.70	PASS
		3	0	23.46	22.74	PASS
		3	2	23.52	22.80	PASS
		3	3	23.42	22.77	PASS
		6	0	23.50	22.35	PASS
	MCH	1	0	23.50	22.78	PASS
		1	3	23.42	22.88	PASS
		1	5	23.32	22.83	PASS
		3	0	23.50	22.87	PASS
		3	2	23.54	22.63	PASS
		3	3	23.43	22.69	PASS
		6	0	23.46	22.30	PASS
	HCH	1	0	23.35	22.77	PASS
		1	3	23.31	22.87	PASS
		1	5	23.32	22.70	PASS
		3	0	23.23	22.12	PASS
		3	2	23.24	21.93	PASS
		3	3	23.21	21.99	PASS
		6	0	23.22	22.05	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.38	22.31	PASS
		1	7	23.41	22.32	PASS
		1	14	23.47	22.18	PASS
		8	0	23.49	22.32	PASS
		8	4	23.48	22.32	PASS
		8	7	23.37	22.41	PASS
		15	0	23.46	22.39	PASS
	MCH	1	0	23.51	22.48	PASS
		1	7	23.32	22.51	PASS
		1	14	23.35	22.49	PASS
		8	0	23.43	22.09	PASS
		8	4	23.55	22.32	PASS
		8	7	23.44	22.34	PASS
		15	0	23.51	22.50	PASS
	HCH	1	0	23.32	22.55	PASS
		1	7	23.40	22.53	PASS
		1	14	23.36	22.47	PASS
		8	0	23.33	22.17	PASS
		8	4	23.31	22.16	PASS
		8	7	23.26	22.20	PASS
		15	0	23.26	22.24	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	23.49	22.48	PASS
		1	12	23.46	22.47	PASS
		1	24	23.51	22.49	PASS
		12	0	23.53	22.47	PASS
		12	6	23.40	22.53	PASS
		12	13	23.52	22.51	PASS
		25	0	23.54	22.51	PASS
	MCH	1	0	23.56	22.43	PASS
		1	12	23.46	22.50	PASS
		1	24	23.42	22.29	PASS
		12	0	23.52	22.49	PASS
		12	6	23.60	22.66	PASS
		12	13	23.57	22.69	PASS
		25	0	23.56	22.62	PASS
	HCH	1	0	23.23	22.79	PASS
		1	12	23.26	22.70	PASS
		1	24	23.22	22.57	PASS
		12	0	23.38	22.00	PASS
		12	6	23.32	22.38	PASS
		12	13	23.26	22.27	PASS
		25	0	23.30	22.45	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	23.48	22.40	PASS
		1	24	23.50	22.40	PASS
		1	49	23.51	22.43	PASS
		25	0	23.50	22.50	PASS
		25	12	23.56	22.43	PASS
		25	25	23.31	22.23	PASS
		50	0	23.58	22.49	PASS
	MCH	1	0	23.55	22.07	PASS
		1	24	23.39	22.41	PASS
		1	49	23.29	21.93	PASS
		25	0	23.60	22.26	PASS
		25	12	23.61	22.45	PASS
		25	25	23.44	22.18	PASS
		50	0	23.61	22.52	PASS
	HCH	1	0	23.43	22.96	PASS
		1	24	23.19	22.80	PASS
		1	49	23.16	22.70	PASS
		25	0	23.14	22.14	PASS
		25	12	23.27	22.11	PASS
		25	25	23.42	22.38	PASS
		50	0	23.29	22.19	PASS

\<SIM2\>

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.35	22.63	PASS
		1	3	23.37	22.71	PASS
		1	5	23.21	22.59	PASS
		3	0	23.37	22.57	PASS
		3	2	23.44	22.63	PASS
		3	3	23.26	22.69	PASS
		6	0	23.37	22.18	PASS
	MCH	1	0	23.39	22.71	PASS
		1	3	23.30	22.76	PASS
		1	5	23.18	22.67	PASS
		3	0	23.37	22.72	PASS
		3	2	23.37	22.52	PASS
		3	3	23.30	22.56	PASS
		6	0	23.33	22.17	PASS
	HCH	1	0	23.27	22.65	PASS
		1	3	23.17	22.77	PASS
		1	5	23.20	22.57	PASS
		3	0	23.13	22.01	PASS
		3	2	23.09	21.78	PASS
		3	3	23.09	21.89	PASS
		6	0	23.08	21.89	PASS

Table title: **Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)**

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.26	22.14	PASS
		1	7	23.28	22.19	PASS
		1	14	23.31	22.11	PASS
		8	0	23.39	22.16	PASS
		8	4	23.32	22.16	PASS
		8	7	23.27	22.26	PASS
		15	0	23.36	22.22	PASS
	MCH	1	0	23.43	22.39	PASS
		1	7	23.20	22.38	PASS
		1	14	23.20	22.37	PASS
		8	0	23.27	21.95	PASS
		8	4	23.41	22.18	PASS
		8	7	23.34	22.24	PASS
		15	0	23.39	22.41	PASS
	HCH	1	0	23.19	22.43	PASS
		1	7	23.26	22.45	PASS
		1	14	23.29	22.34	PASS
		8	0	23.26	22.01	PASS
		8	4	23.23	22.00	PASS
		8	7	23.11	22.07	PASS
		15	0	23.16	22.13	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	23.42	22.32	PASS
		1	12	23.37	22.38	PASS
		1	24	23.44	22.34	PASS
		12	0	23.46	22.38	PASS
		12	6	23.30	22.38	PASS
		12	13	23.40	22.39	PASS
		25	0	23.45	22.39	PASS
	MCH	1	0	23.49	22.32	PASS
		1	12	23.30	22.37	PASS
		1	24	23.32	22.16	PASS
		12	0	23.38	22.36	PASS
		12	6	23.51	22.49	PASS
		12	13	23.44	22.61	PASS
		25	0	23.43	22.50	PASS
	HCH	1	0	23.07	22.71	PASS
		1	12	23.10	22.60	PASS
		1	24	23.12	22.46	PASS
		12	0	23.29	21.89	PASS
		12	6	23.21	22.29	PASS
		12	13	23.10	22.11	PASS
		25	0	23.18	22.34	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	23.36	22.28	PASS
		1	24	23.39	22.32	PASS
		1	49	23.43	22.28	PASS
		25	0	23.39	22.40	PASS
		25	12	23.45	22.29	PASS
		25	25	23.22	22.14	PASS
		50	0	23.45	22.35	PASS
	MCH	1	0	23.40	21.95	PASS
		1	24	23.22	22.28	PASS
		1	49	23.19	21.77	PASS
		25	0	23.46	22.19	PASS
		25	12	23.48	22.35	PASS
		25	25	23.29	22.02	PASS
		50	0	23.51	22.45	PASS
	HCH	1	0	23.32	22.83	PASS
		1	24	23.04	22.64	PASS
		1	49	23.07	22.56	PASS
		25	0	22.97	22.04	PASS
		25	12	23.12	21.99	PASS
		25	25	23.34	22.23	PASS
		50	0	23.20	22.11	PASS

F.2 Peak-to-Average Ratio

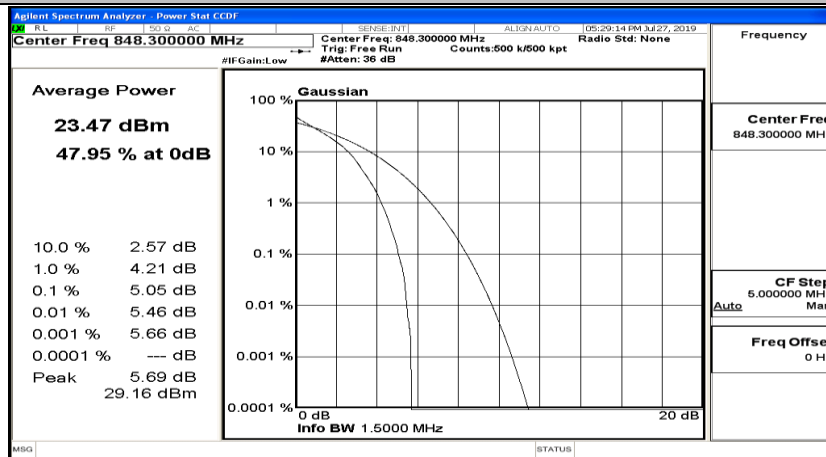| Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.14	<13	PASS
	MCH	5.53	<13	PASS
	HCH	5.05	<13	PASS
16QAM	LCH	6.07	<13	PASS
	MCH	6.49	<13	PASS
	HCH	6.07	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.28	<13	PASS
	MCH	5.57	<13	PASS
	HCH	5.28	<13	PASS
16QAM	LCH	6.24	<13	PASS
	MCH	6.64	<13	PASS
	HCH	6.13	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.26	<13	PASS
	MCH	5.53	<13	PASS
	HCH	5.23	<13	PASS
16QAM	LCH	6.17	<13	PASS
	MCH	6.35	<13	PASS
	HCH	6.05	<13	PASS

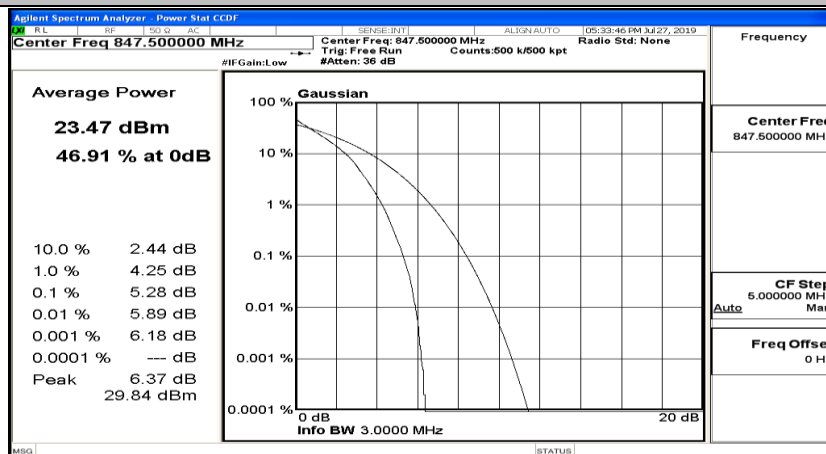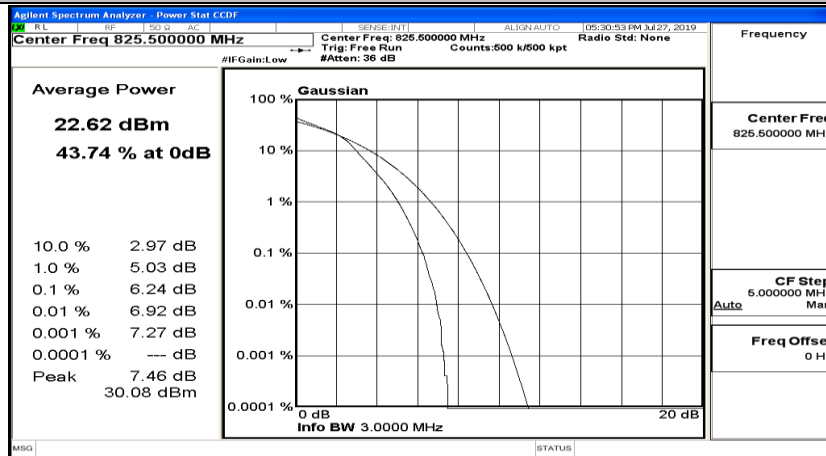| Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.53	<13	PASS
	MCH	5.54	<13	PASS
	HCH	5.49	<13	PASS
16QAM	LCH	6.24	<13	PASS
	MCH	6.3	<13	PASS
	HCH	6.31	<13	PASS

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK

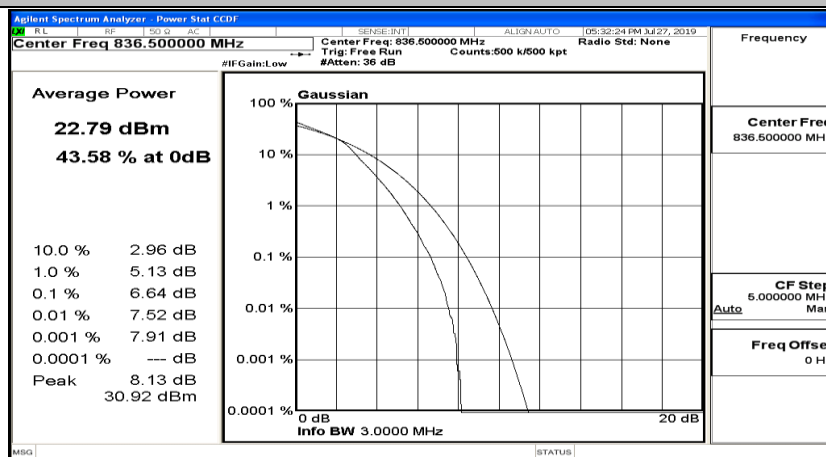Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK

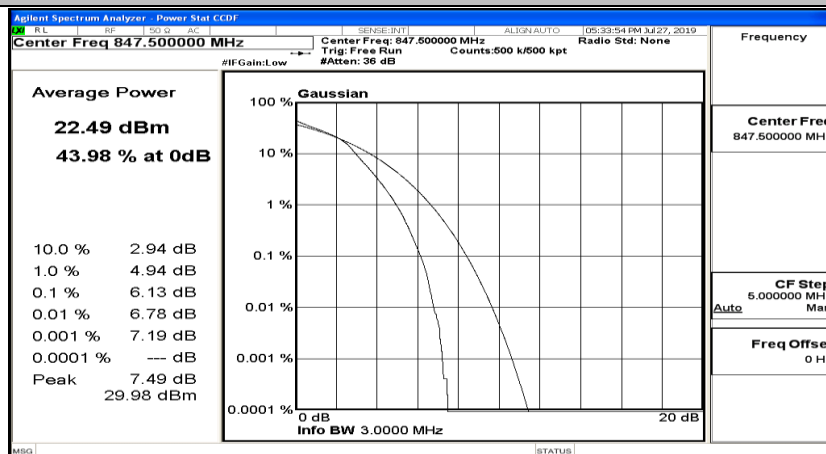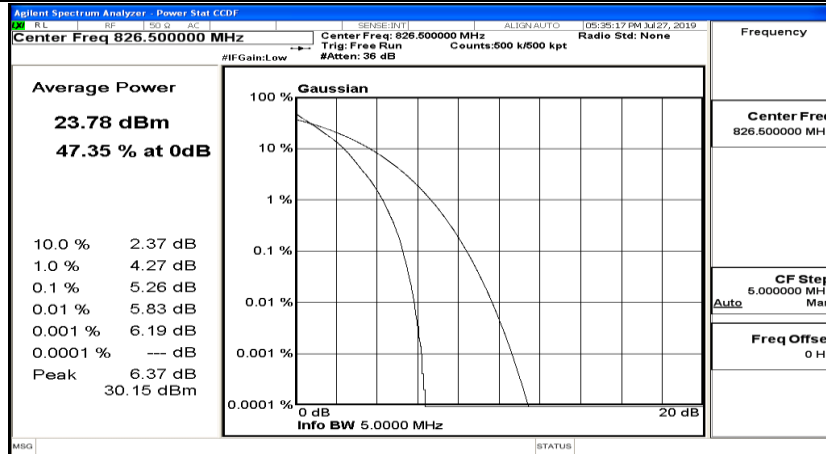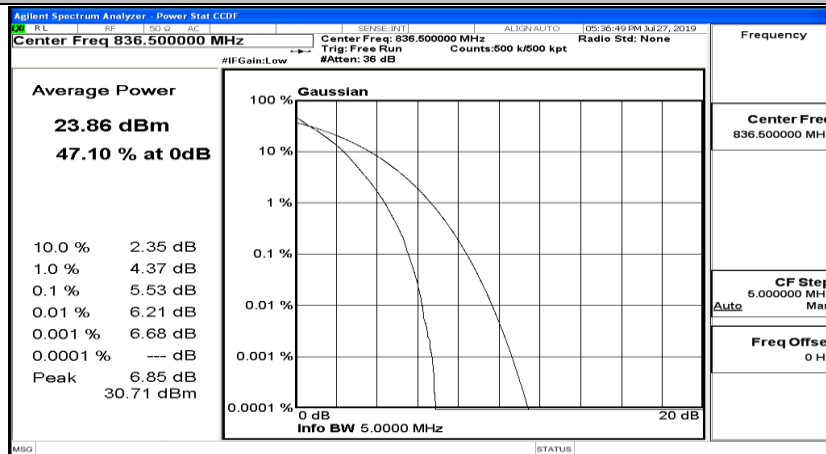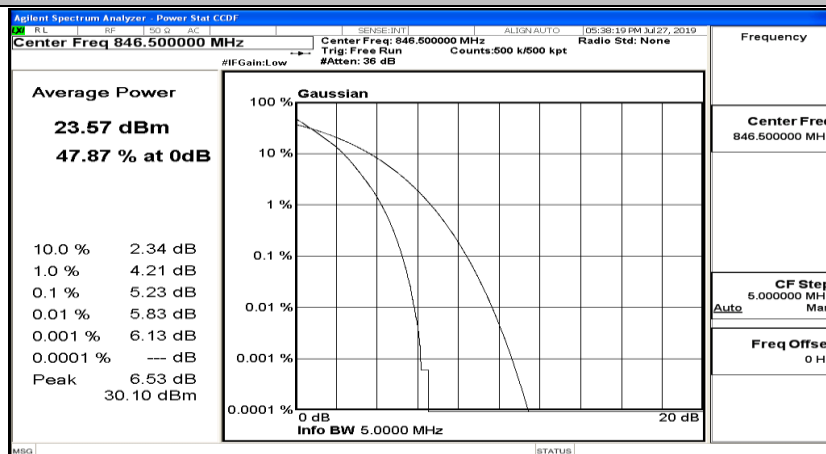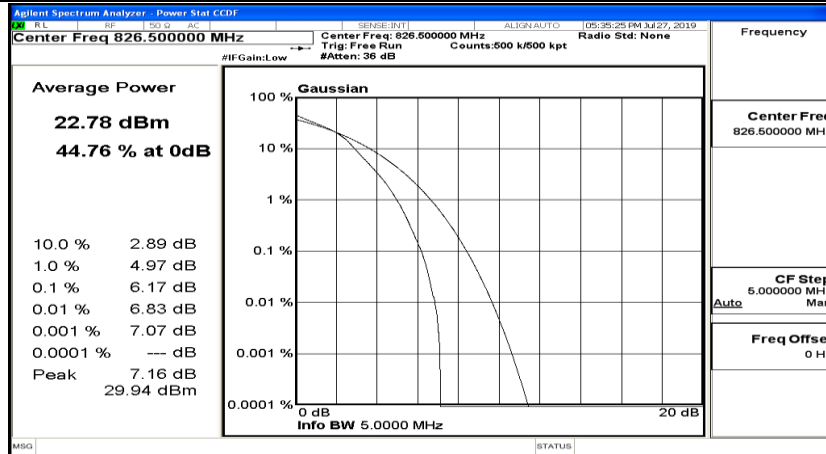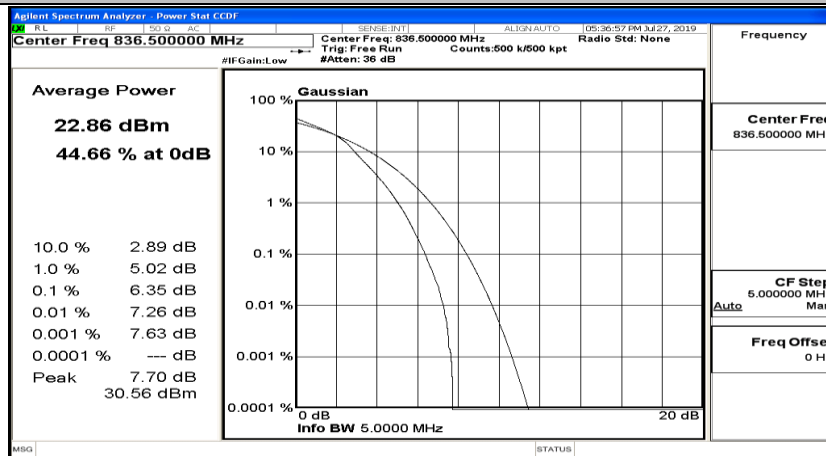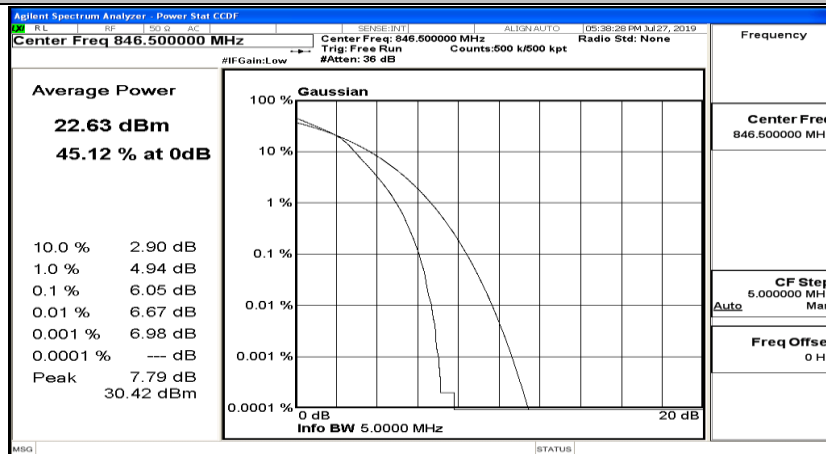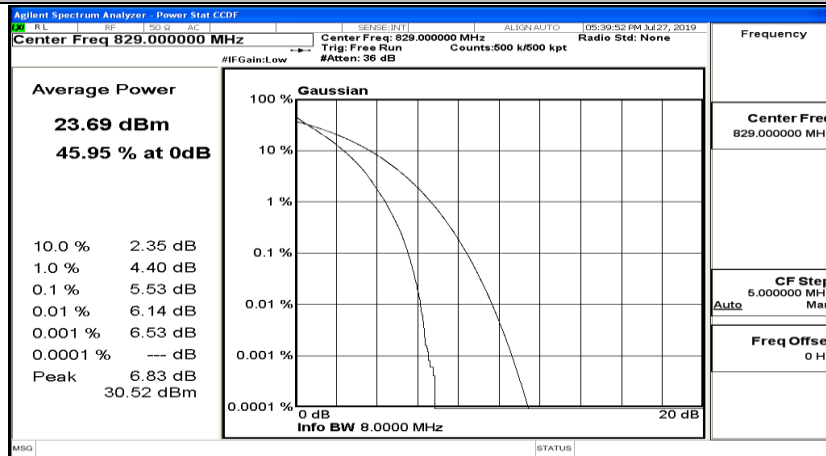Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM

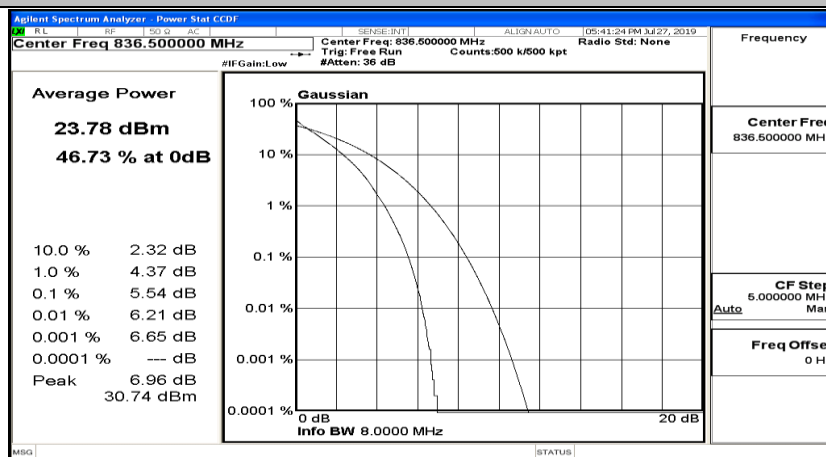| Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM |
|---|

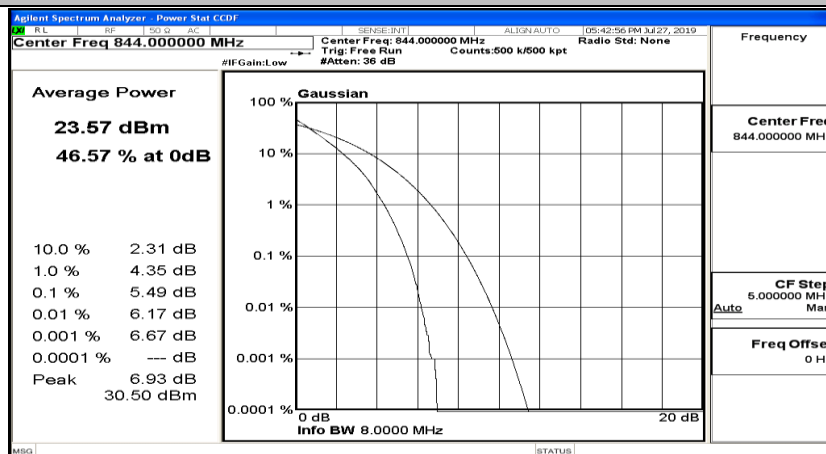| Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM |
|---|

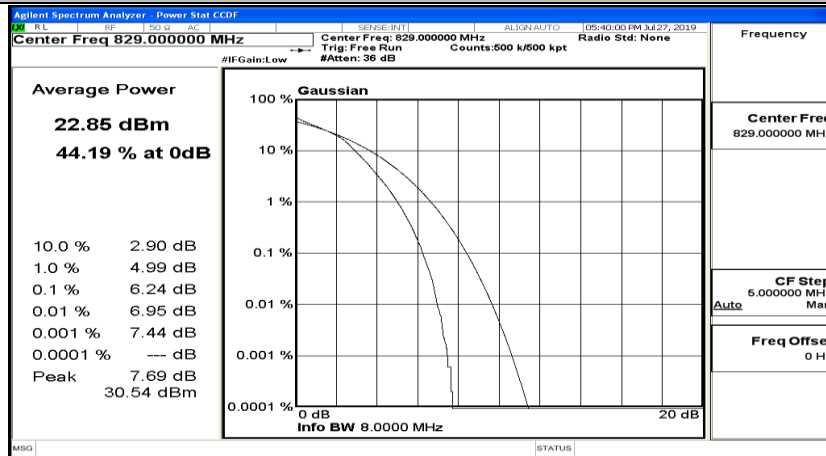| Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK |
|---|

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

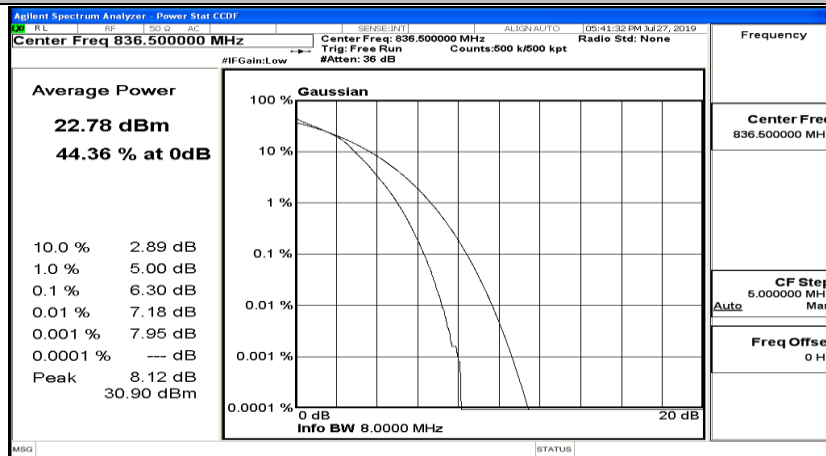| Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK |
|---|

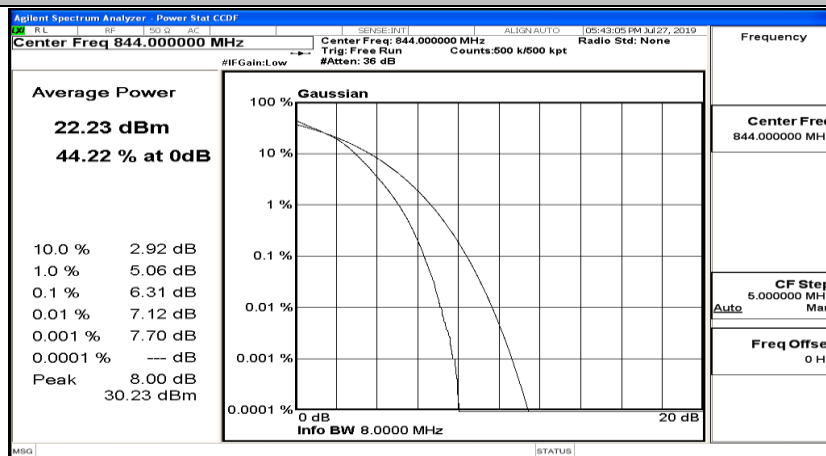| Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK |
|---|

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Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK

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Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

F.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	1.0734	1.212	PASS
	MCH	1.0776	1.231	PASS
	HCH	1.0765	1.239	PASS
16QAM	LCH	1.0768	1.230	PASS
	MCH	1.0766	1.236	PASS
	HCH	1.0808	1.241	PASS

EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	2.6753	2.825	PASS
	MCH	2.6802	2.815	PASS
	HCH	2.6802	2.841	PASS
16QAM	LCH	2.6809	2.816	PASS
	MCH	2.6795	2.832	PASS
	HCH	2.6822	2.850	PASS

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4817	4.876	PASS
	MCH	4.4686	4.820	PASS
	HCH	4.4774	4.881	PASS
16QAM	LCH	4.4749	4.870	PASS
	MCH	4.4629	4.870	PASS
	HCH	4.4913	4.873	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9672	9.535	PASS
	MCH	8.9232	9.465	PASS
	HCH	8.9582	9.488	PASS
16QAM	LCH	8.9622	9.563	PASS
	MCH	8.9086	9.396	PASS
	HCH	8.9478	9.516	PASS

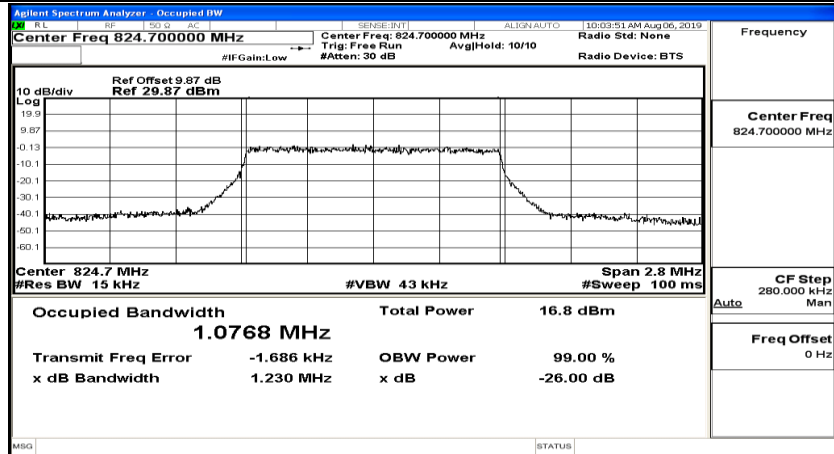| EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK |
|---|

EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_QPSK

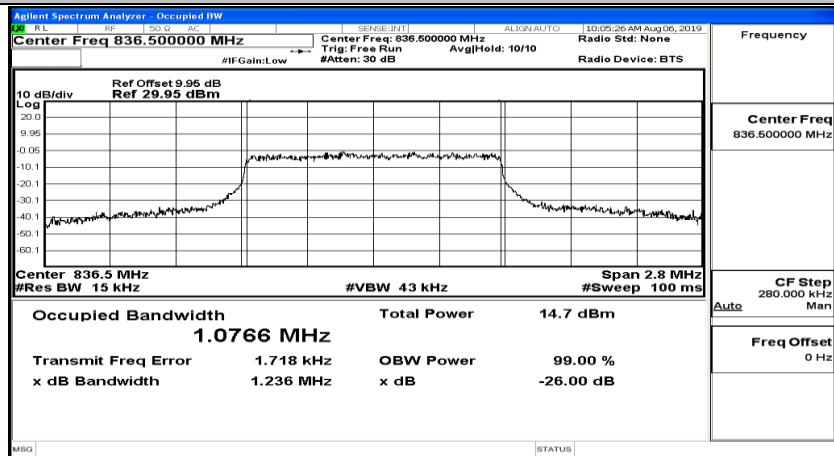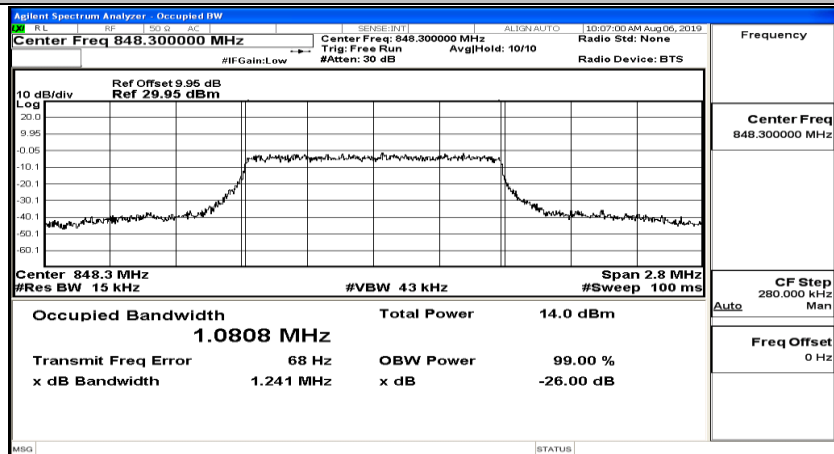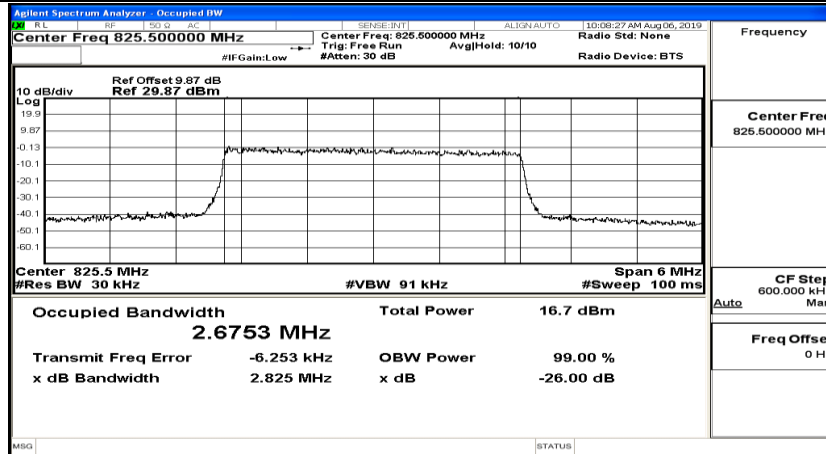| EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK |
|---|

EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM

EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_MCH_16QAM

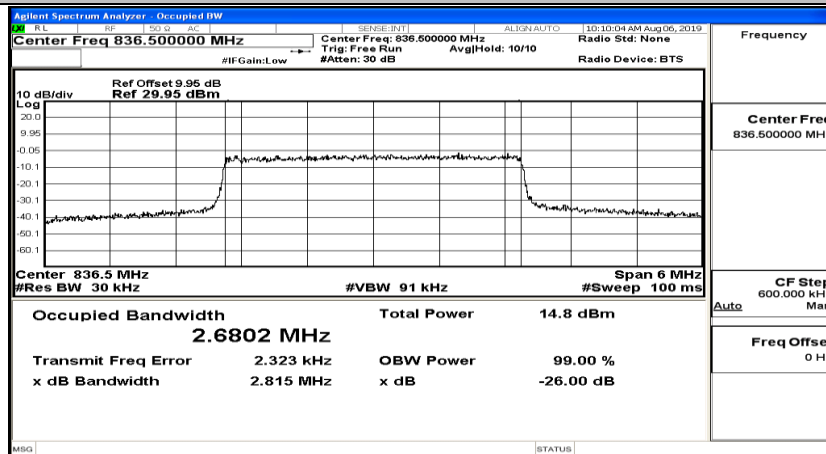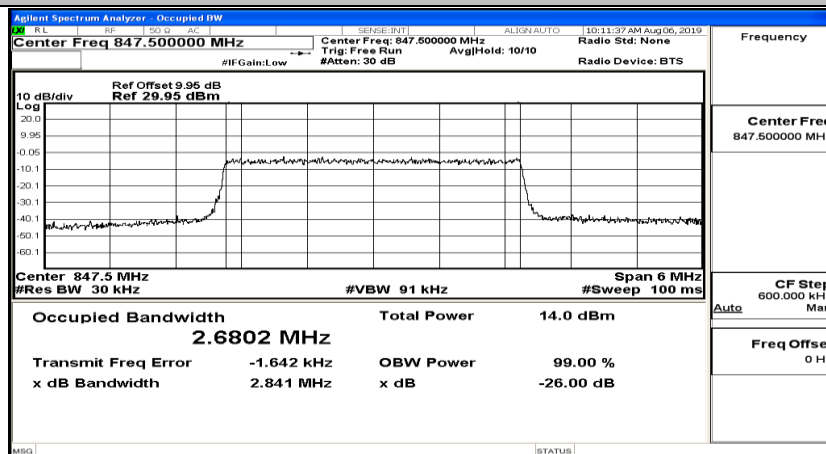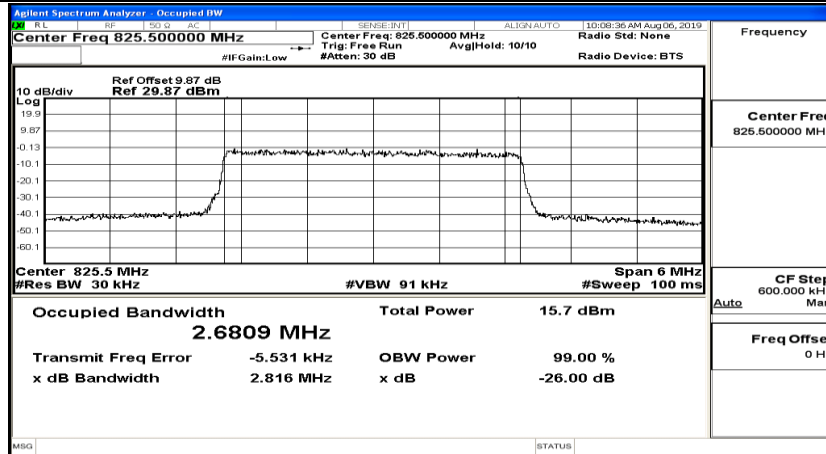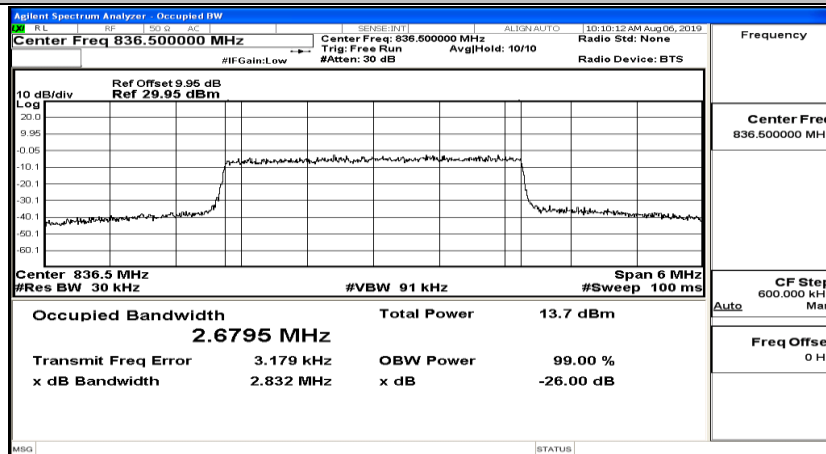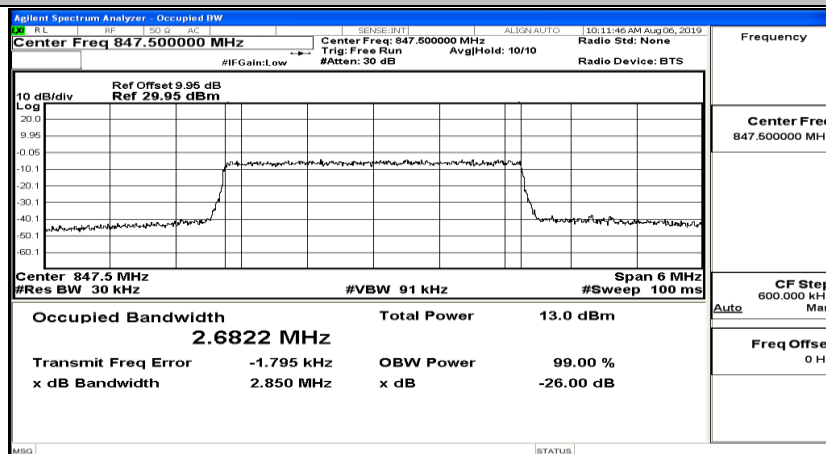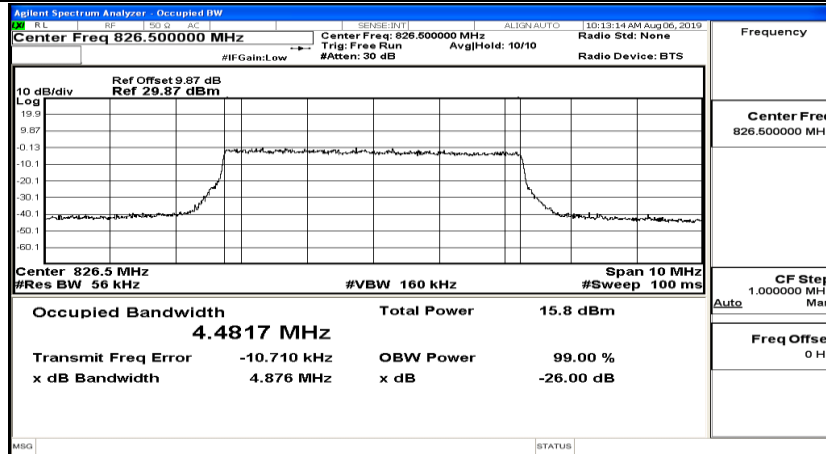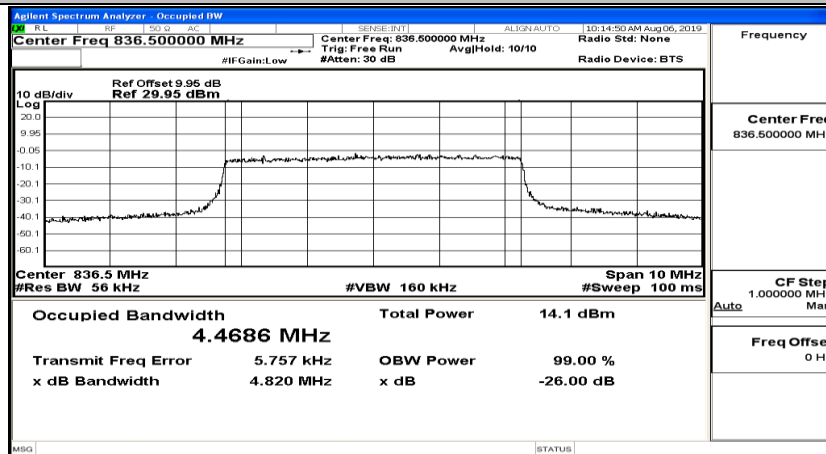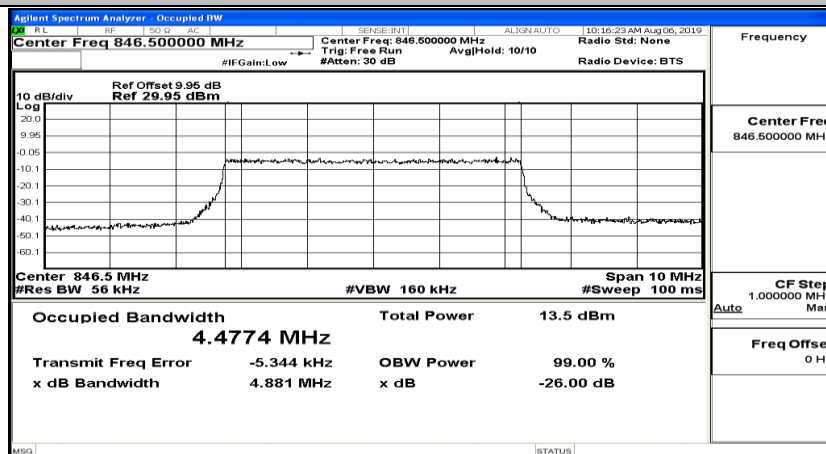EBW & OBW Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM
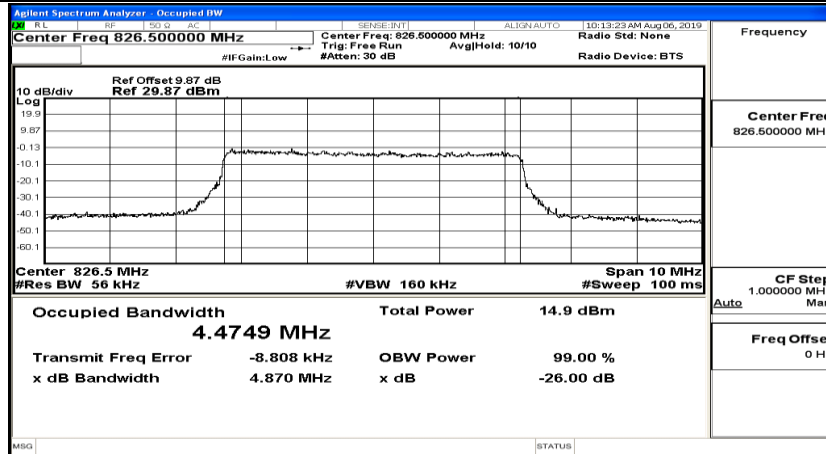
EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK

EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_QPSK

EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK

EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM

EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_MCH_16QAM

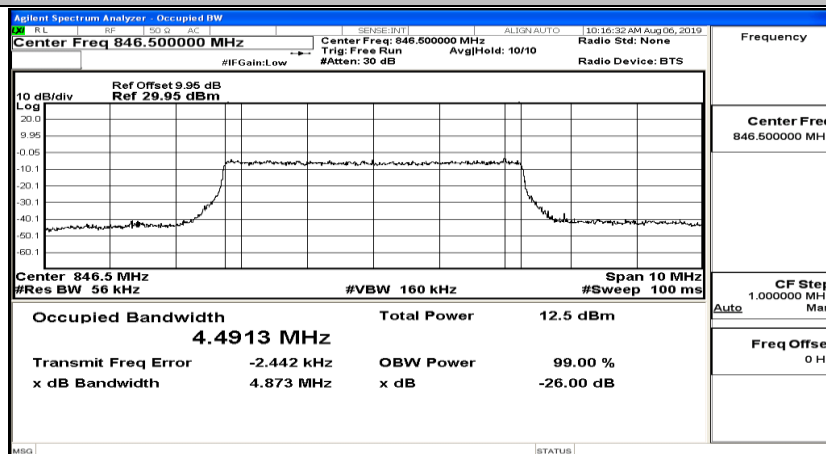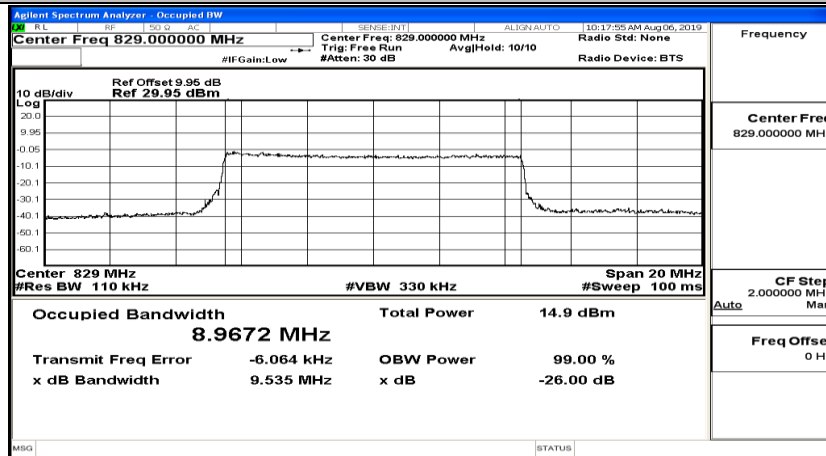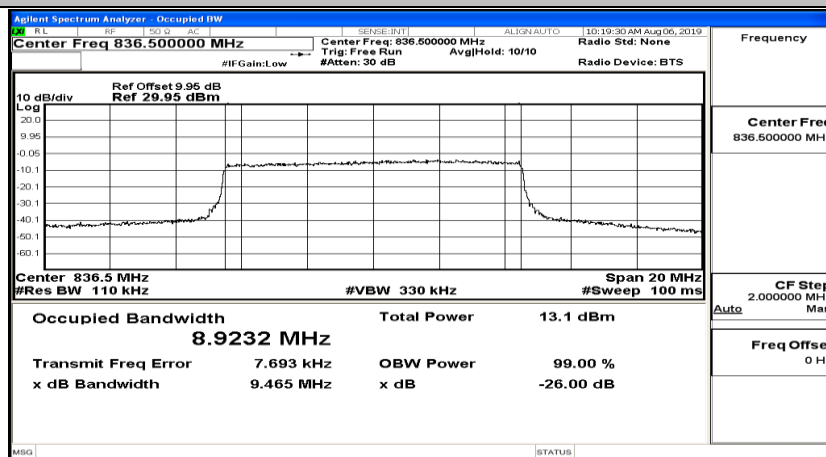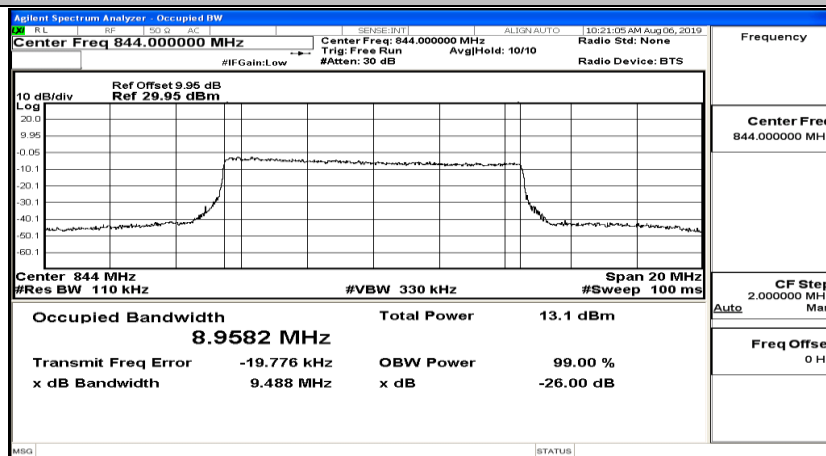| EBW & OBW Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM |
|---|

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

Occupied Bandwidth		Total Power	15.8 dBm
4.4817 MHz			
Transmit Freq Error	-10.710 kHz	OBW Power	99.00 %
x dB Bandwidth	4.876 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK

Occupied Bandwidth		Total Power	14.1 dBm
4.4686 MHz			
Transmit Freq Error	5.757 kHz	OBW Power	99.00 %
x dB Bandwidth	4.820 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK

Occupied Bandwidth		Total Power	13.5 dBm
4.4774 MHz			
Transmit Freq Error	-5.344 kHz	OBW Power	99.00 %
x dB Bandwidth	4.881 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM

Occupied Bandwidth		Total Power	14.9 dBm
	4.4749 MHz		
Transmit Freq Error	-8.808 kHz	OBW Power	99.00 %
x dB Bandwidth	4.870 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM

Occupied Bandwidth		Total Power	13.0 dBm
	4.4629 MHz		
Transmit Freq Error	3.499 kHz	OBW Power	99.00 %
x dB Bandwidth	4.870 MHz	x dB	-26.00 dB

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

Occupied Bandwidth		Total Power	12.5 dBm
	4.4913 MHz		
Transmit Freq Error	-2.442 kHz	OBW Power	99.00 %
x dB Bandwidth	4.873 MHz	x dB	-26.00 dB

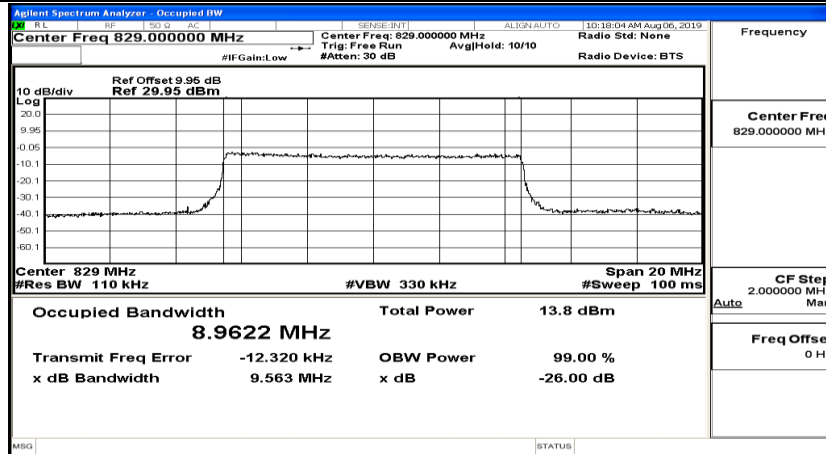| EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK |
|---|

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK

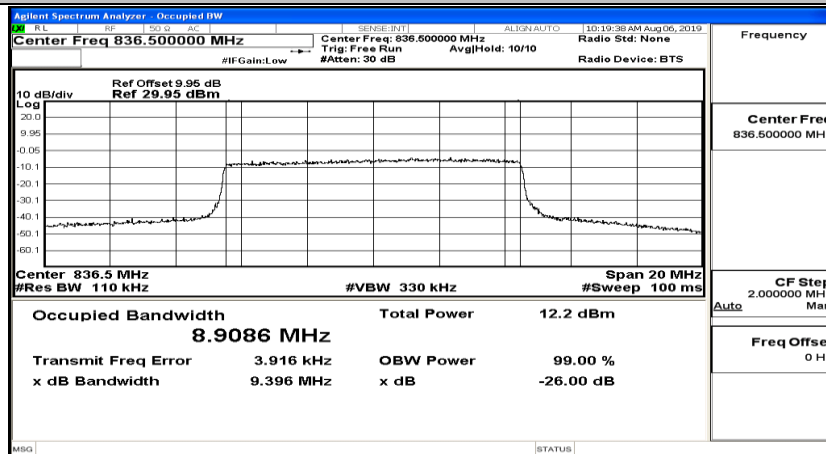

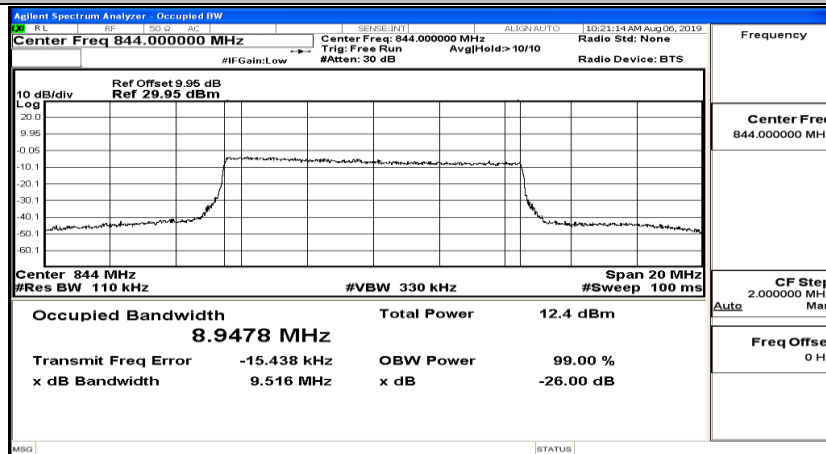| EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK |
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EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

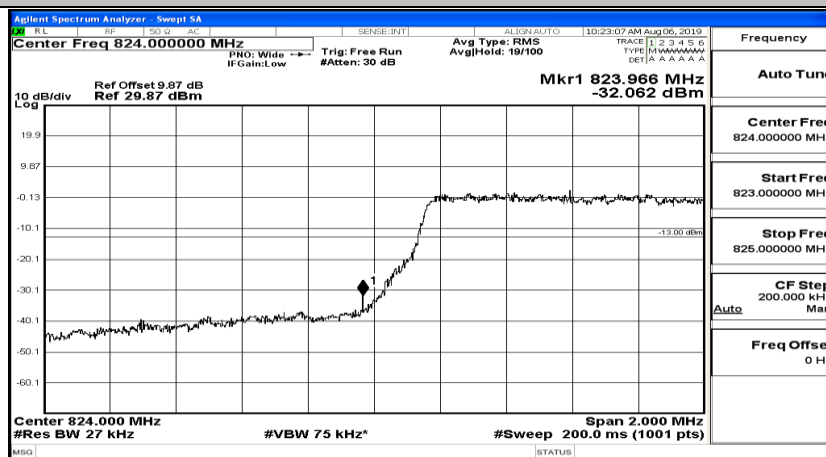| EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM |
|---|

F.4 Band Edge

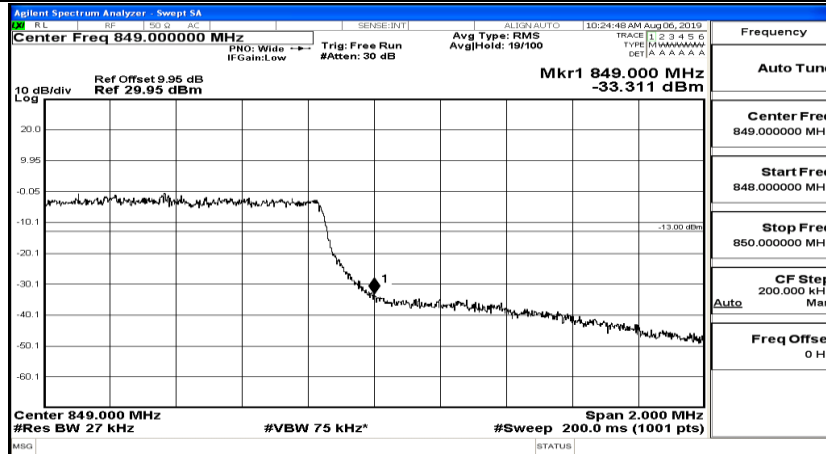| Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_QPSK |
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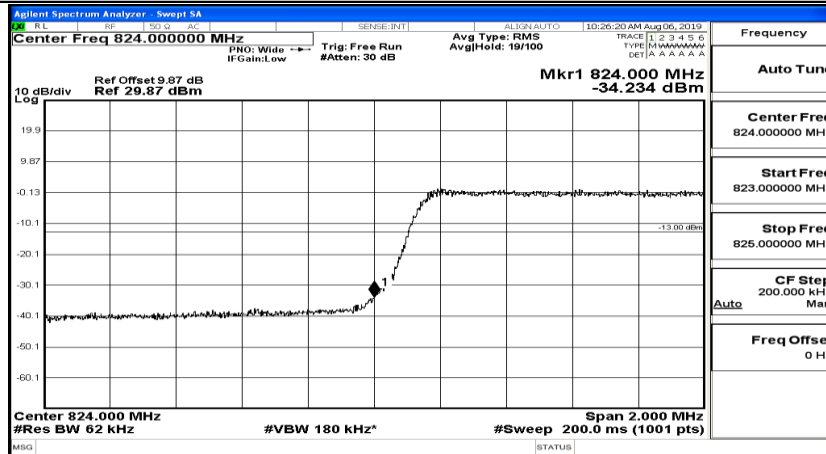| Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_QPSK |
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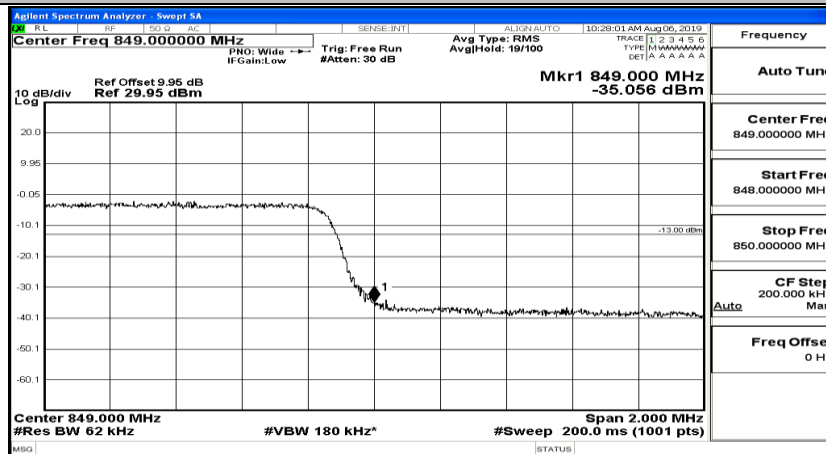| Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_LCH_16QAM |
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Band Edge Test Graph(s) (Channel Bandwidth: 1.4 MHz)_HCH_16QAM
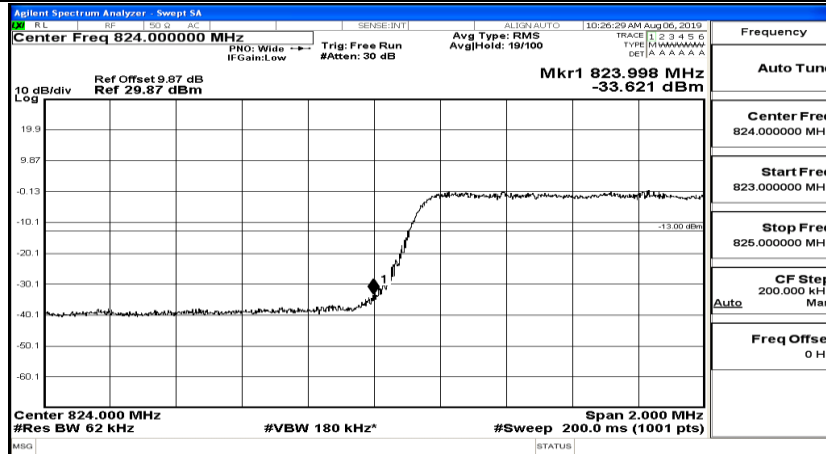

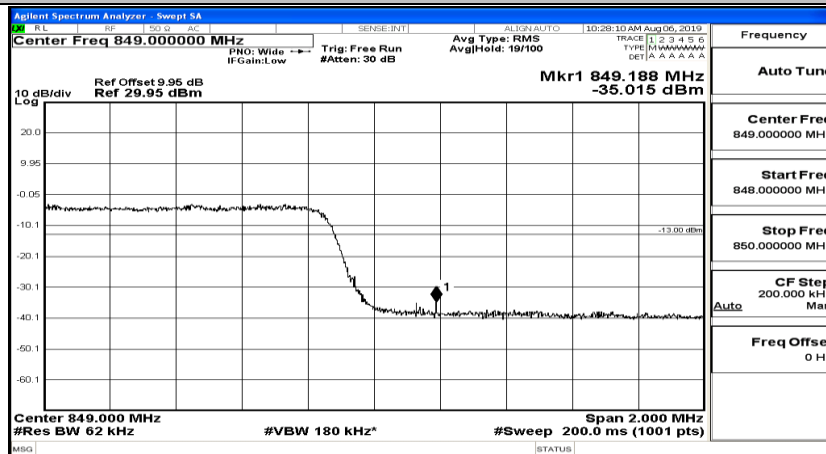## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_QPSK

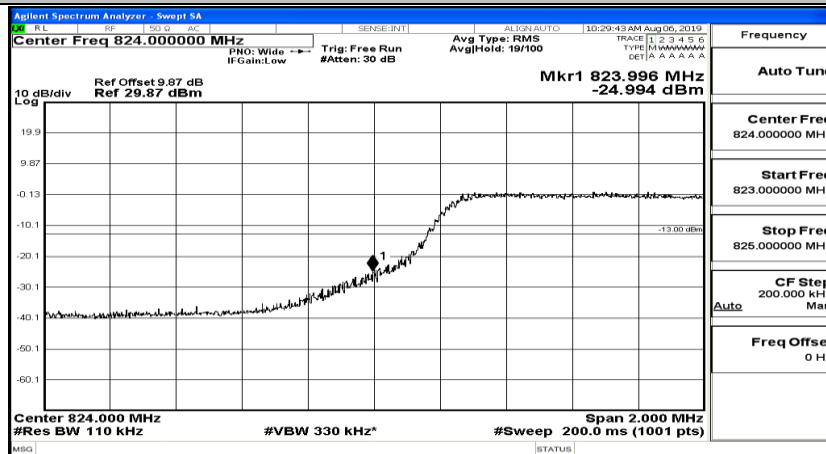## Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_QPSK

Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_LCH_16QAM
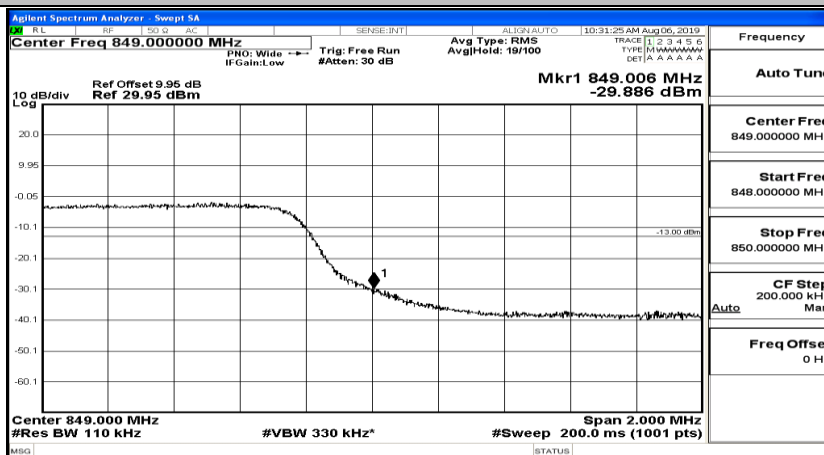

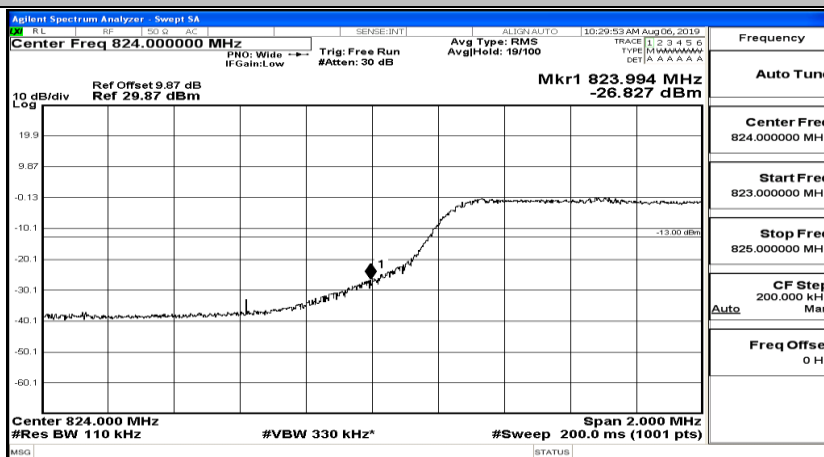Band Edge Test Graph(s) (Channel Bandwidth: 3 MHz)_HCH_16QAM

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM