Appendix H: Test Data for E-UTRA Band 17

Product Name: 4G Smartphone
Trade Mark: Hello Smart Phones
Test Model: Hello AN6 pro

Environmental Conditions

Temperature:	24.3
Relative Humidity:	52.7
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

H.1 Conducted Output Power

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	22.32	21.61	PASS
		1	12	22.60	21.54	PASS
		1	24	22.77	21.06	PASS
		12	0	22.34	21.70	PASS
		12	6	22.56	21.00	PASS
		12	13	22.15	21.10	PASS
		25	0	22.37	21.73	PASS
	MCH	1	0	22.22	21.49	PASS
		1	12	22.21	21.37	PASS
		1	24	22.55	21.24	PASS
		12	0	22.35	21.25	PASS
		12	6	22.65	21.61	PASS
		12	13	22.52	21.35	PASS
		25	0	22.24	21.78	PASS
	HCH	1	0	22.30	21.60	PASS
		1	12	22.53	21.53	PASS
		1	24	22.12	21.66	PASS
		12	0	22.24	21.49	PASS
		12	6	22.11	21.24	PASS
		12	13	22.69	21.10	PASS
		25	0	22.37	22.14	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	22.42	21.46	PASS
		1	24	22.65	20.92	PASS
		1	49	22.53	21.38	PASS
		25	0	22.77	21.06	PASS
		25	12	22.27	21.67	PASS
		25	25	22.37	21.07	PASS
		50	0	22.67	21.36	PASS
	MCH	1	0	22.81	21.43	PASS
		1	24	22.81	21.49	PASS
		1	49	22.98	21.71	PASS
		25	0	22.96	21.31	PASS
		25	12	22.93	21.56	PASS
		25	25	22.49	20.92	PASS
		50	0	22.23	21.47	PASS
	HCH	1	0	22.91	20.91	PASS
		1	24	22.83	21.01	PASS
		1	49	22.74	21.22	PASS
		25	0	22.26	21.05	PASS
		25	12	22.75	21.18	PASS
		25	25	22.54	21.01	PASS
		50	0	22.23	21.21	PASS

H.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.91	<13	PASS
	MCH	5.05	<13	PASS
	HCH	5.31	<13	PASS
16QAM	LCH	5.68	<13	PASS
	MCH	5.83	<13	PASS
	HCH	6.06	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.05	<13	PASS
	MCH	5.09	<13	PASS
	HCH	5.14	<13	PASS
16QAM	LCH	5.81	<13	PASS
	MCH	5.84	<13	PASS
	HCH	5.92	<13	PASS

Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK
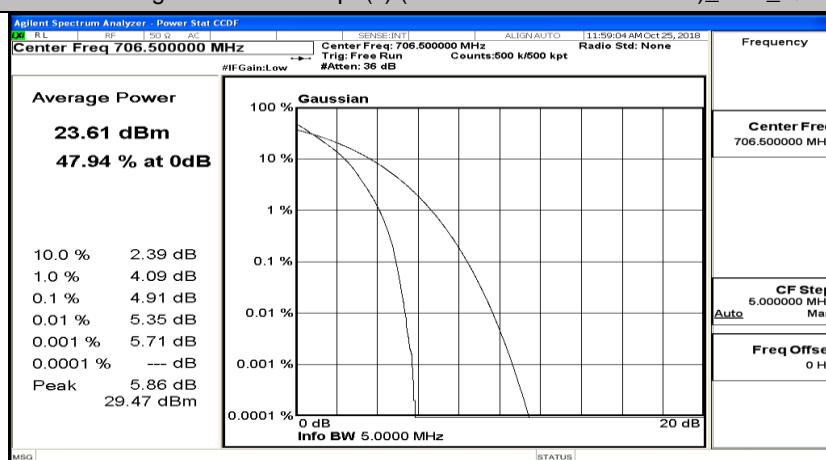
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK
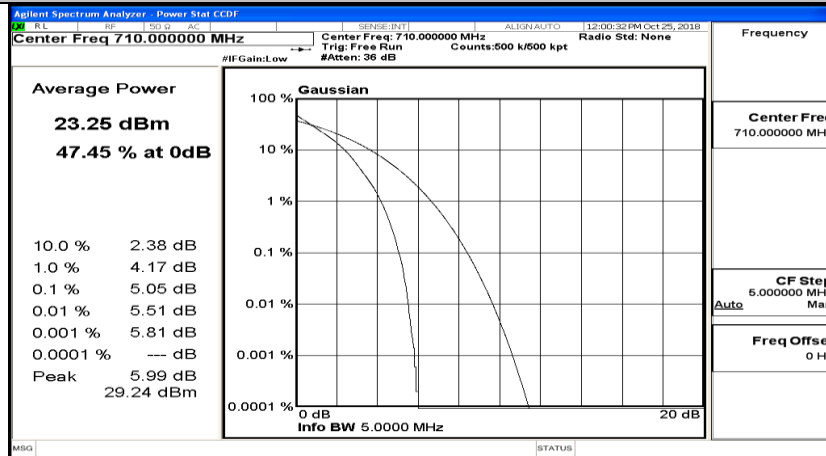
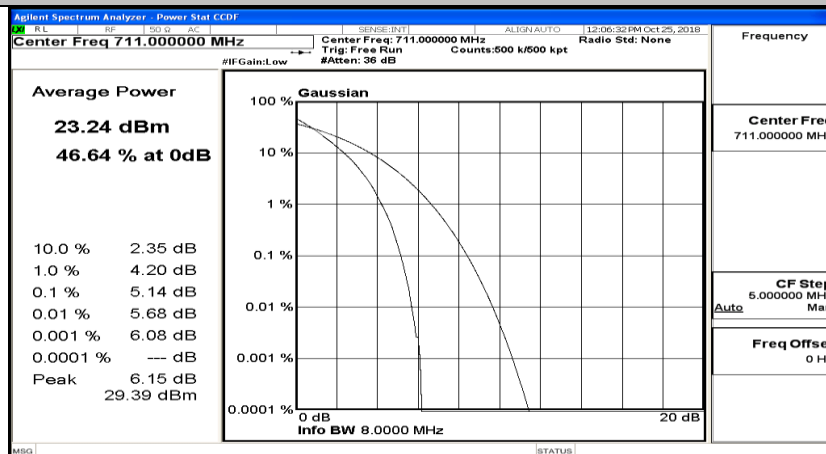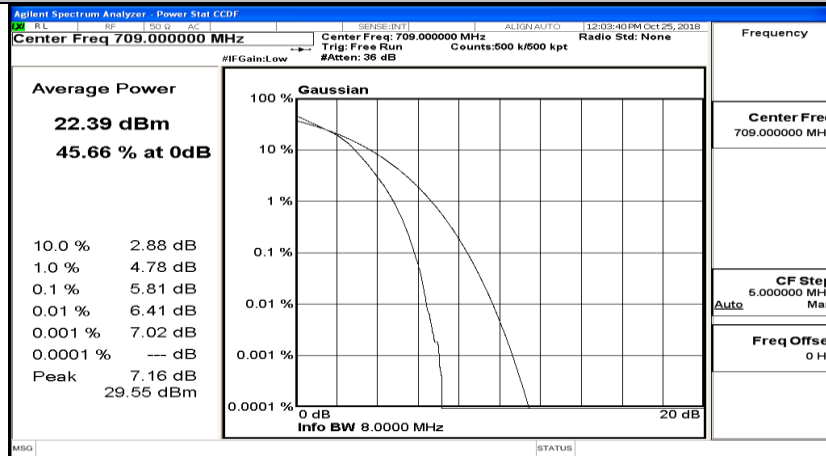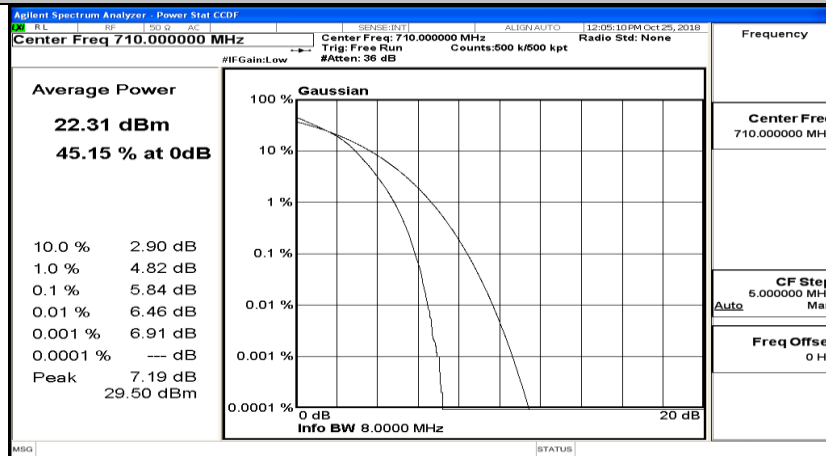| Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK |
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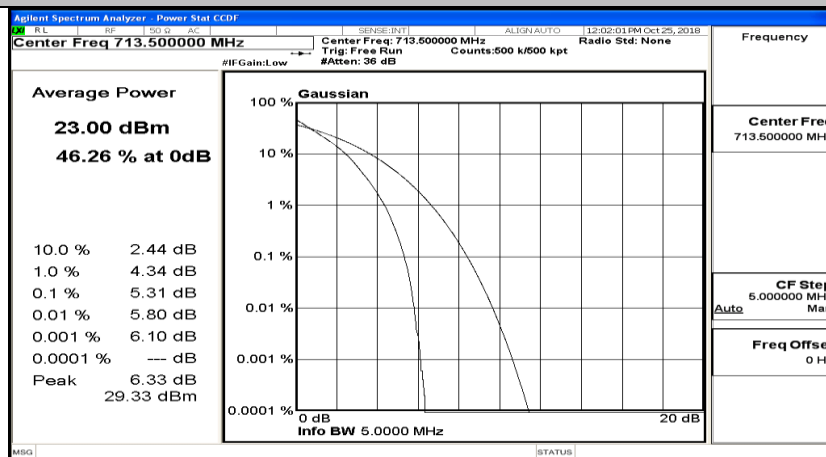
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM
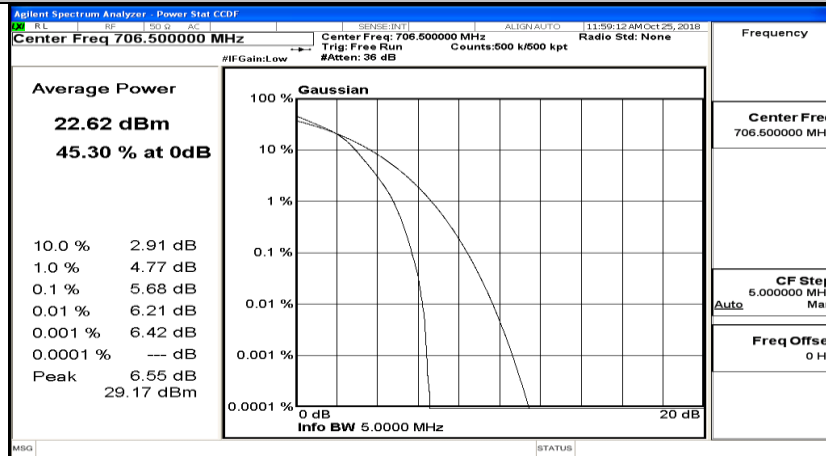
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM
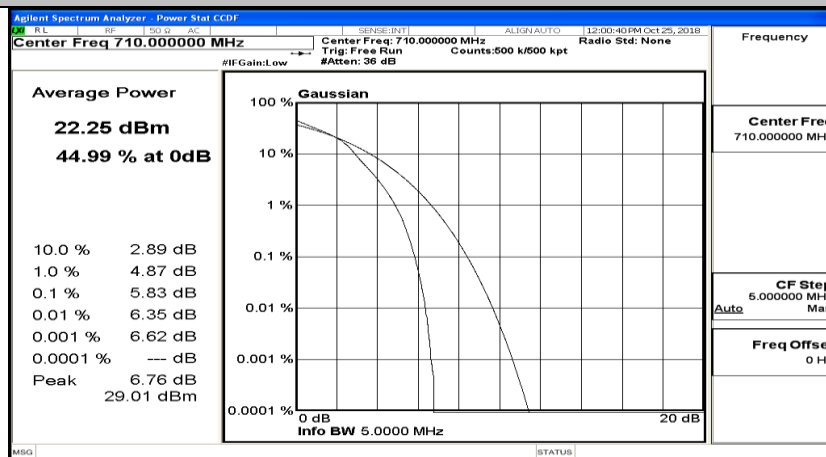
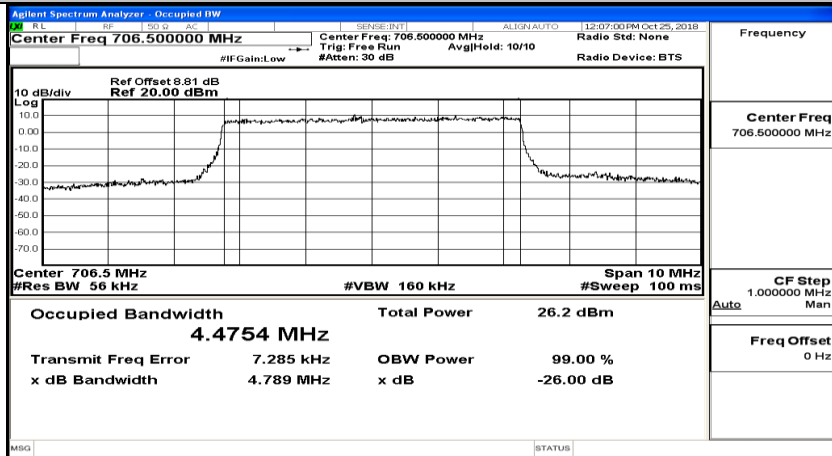| Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM |
|---|
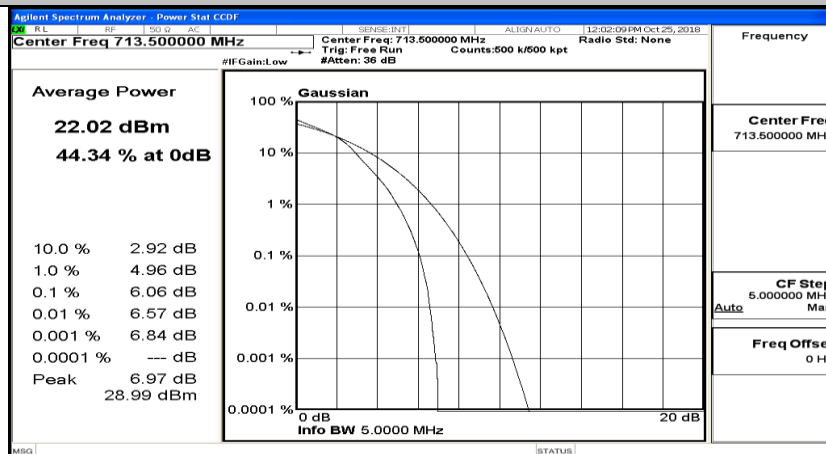
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
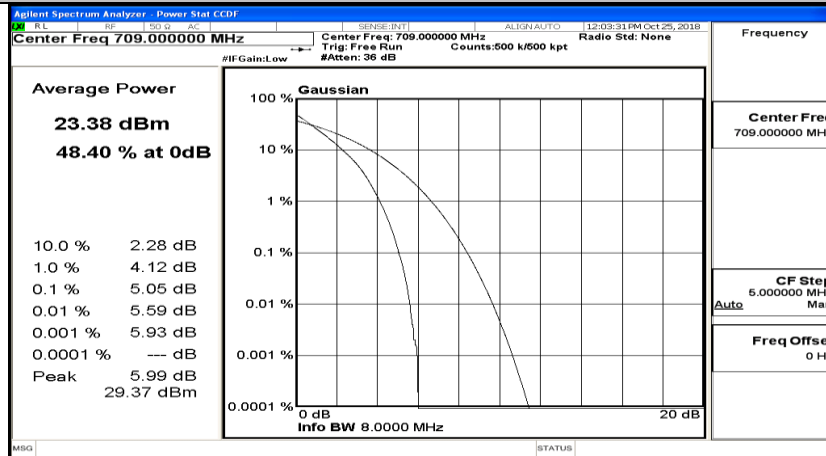
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK
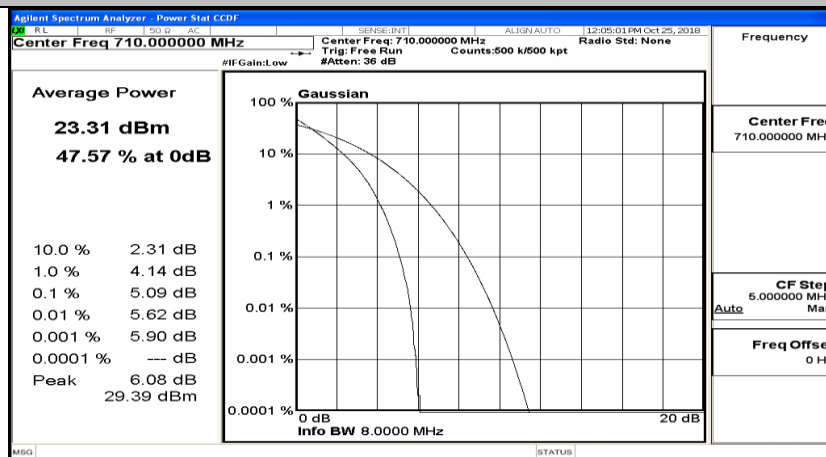
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK

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
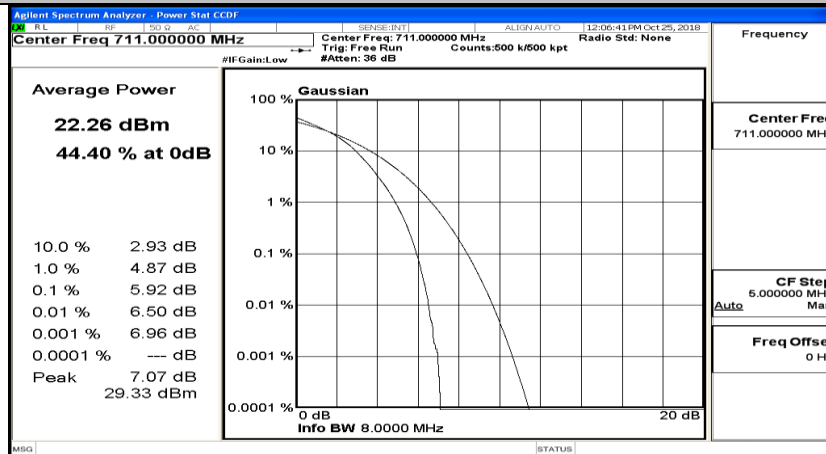
H.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4754	4.789	PASS
	MCH	4.4772	4.806	PASS
	HCH	4.4988	4.850	PASS
16QAM	LCH	4.4818	4.828	PASS
	MCH	4.4783	4.765	PASS
	HCH	4.4851	4.805	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9182	9.452	PASS
	MCH	8.9113	9.430	PASS
	HCH	8.9261	9.417	PASS
16QAM	LCH	8.9106	9.333	PASS
	MCH	8.9033	9.418	PASS
	HCH	8.9258	9.426	PASS

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

EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK
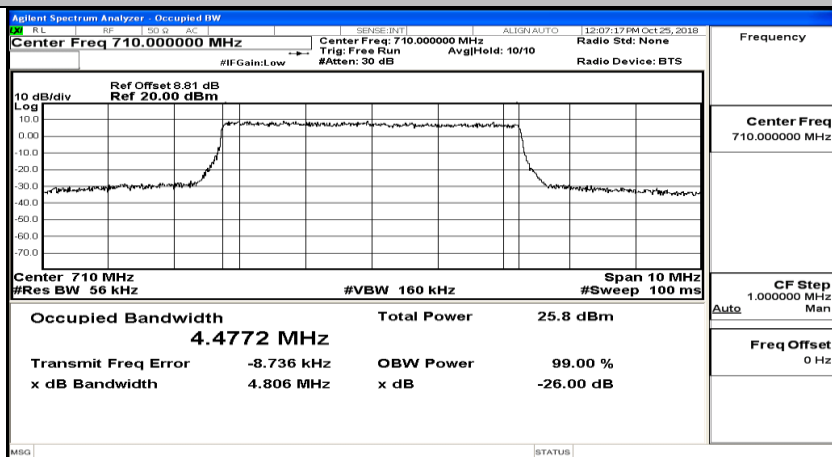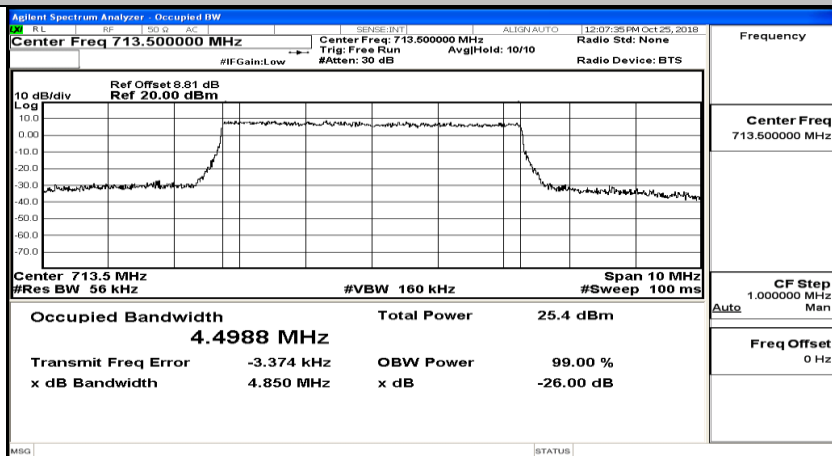
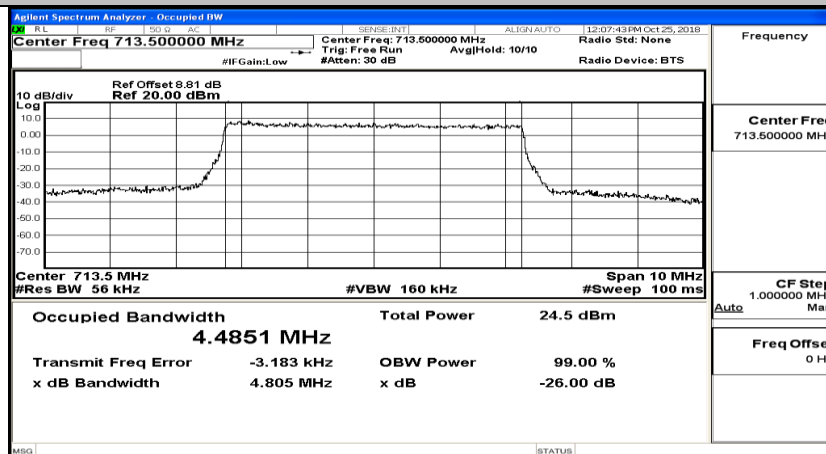| EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK |
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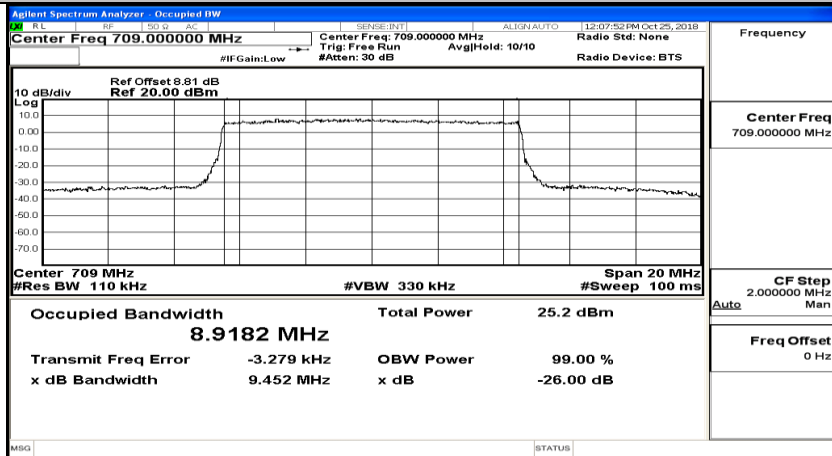| EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM |
|---|
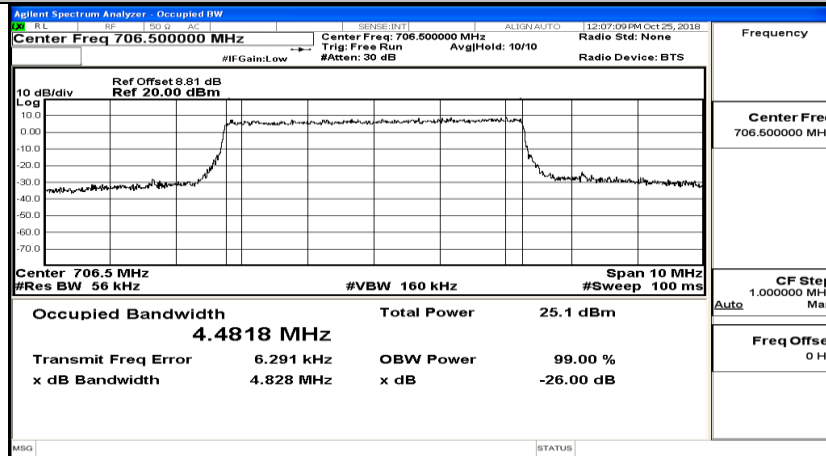
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM
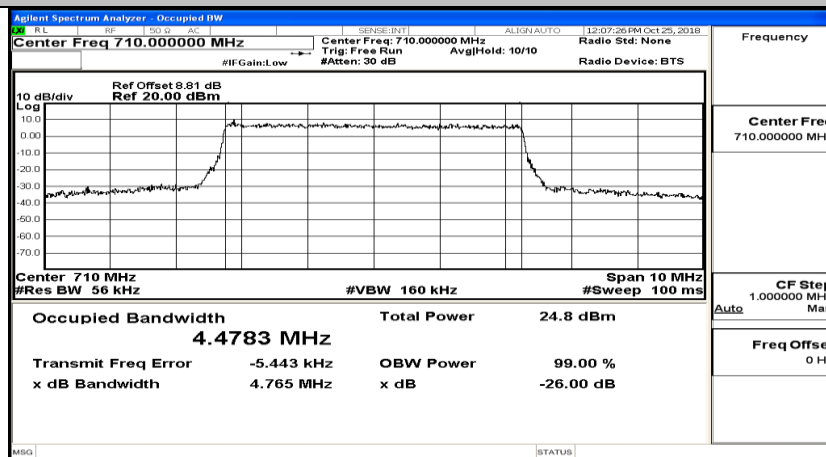
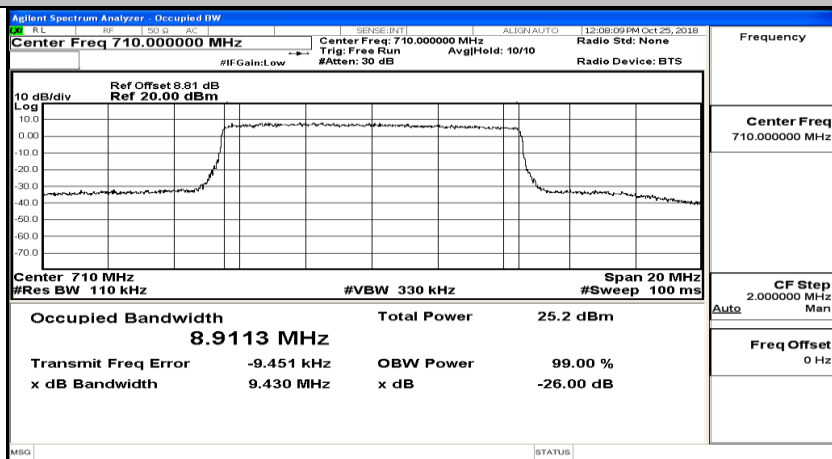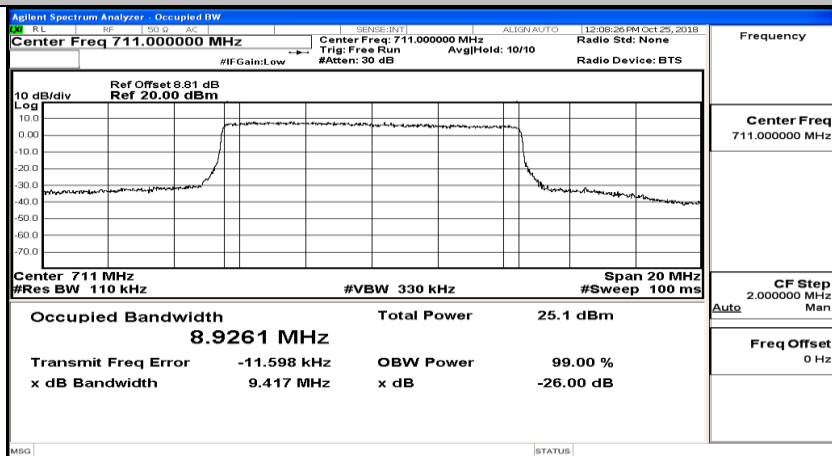| EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM |
|---|

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

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

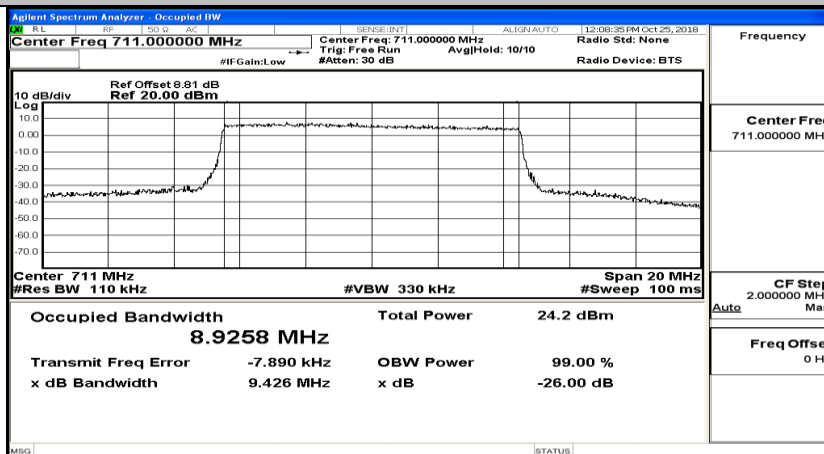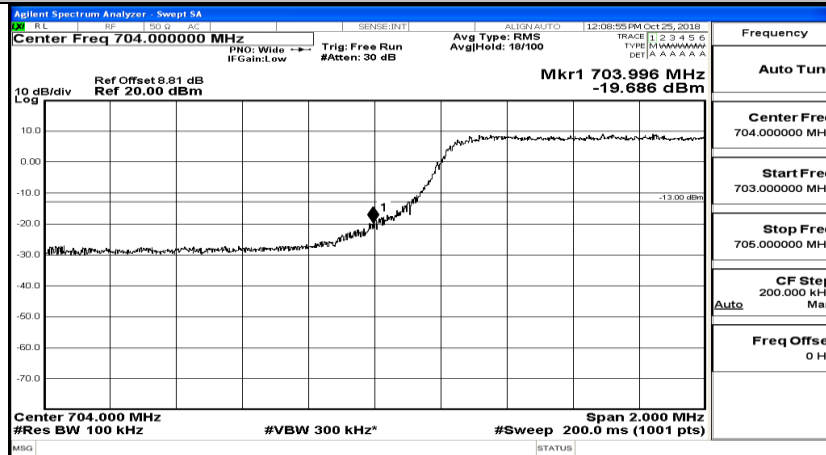| EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK |
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EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM
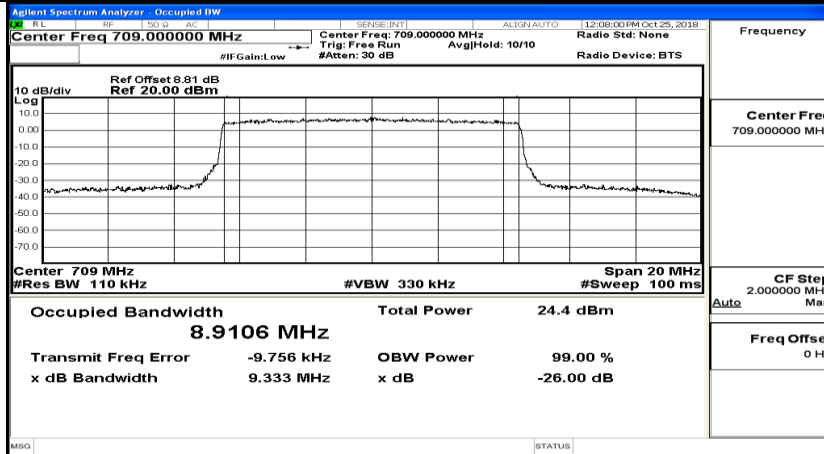
Occupied Bandwidth		Total Power	24.4 dBm
8.9106 MHz			
Transmit Freq Error	-9.756 kHz	OBW Power	99.00 %
x dB Bandwidth	9.333 MHz	x dB	-26.00 dB

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

Occupied Bandwidth		Total Power	24.2 dBm
8.9033 MHz			
Transmit Freq Error	-3.401 kHz	OBW Power	99.00 %
x dB Bandwidth	9.418 MHz	x dB	-26.00 dB

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

Occupied Bandwidth		Total Power	24.2 dBm
8.9258 MHz			
Transmit Freq Error	-7.890 kHz	OBW Power	99.00 %
x dB Bandwidth	9.426 MHz	x dB	-26.00 dB
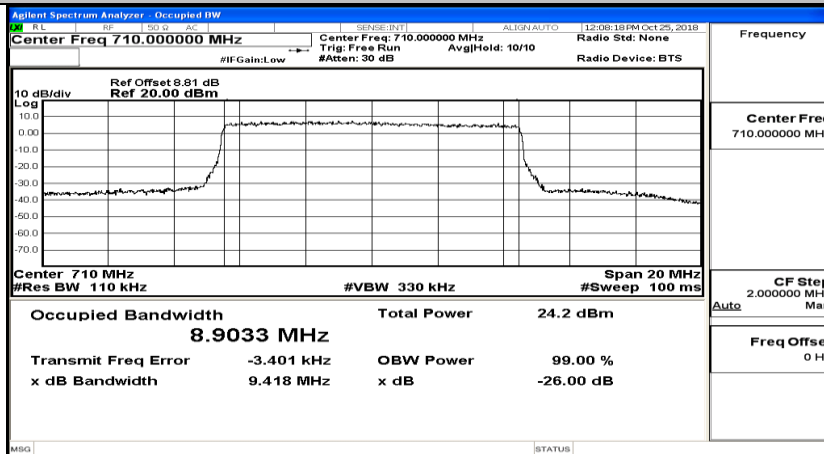
H.4 Band Edge

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

Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK
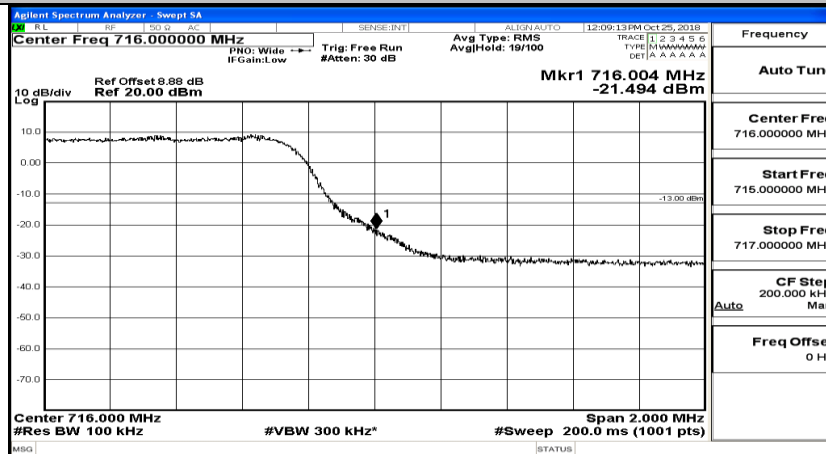
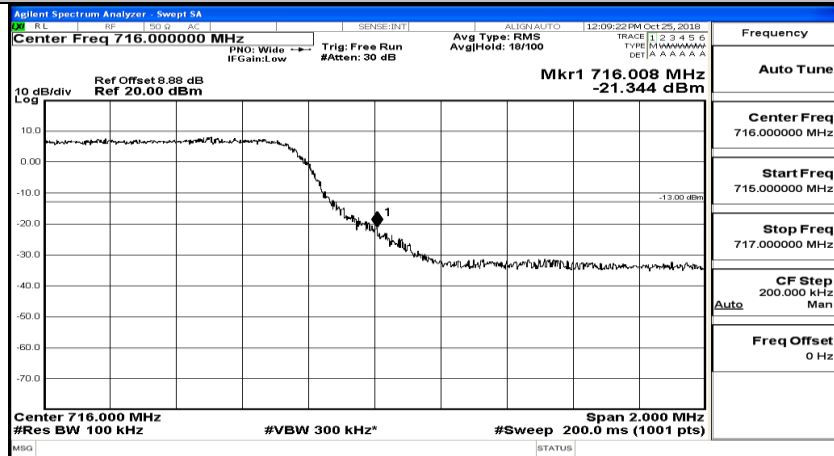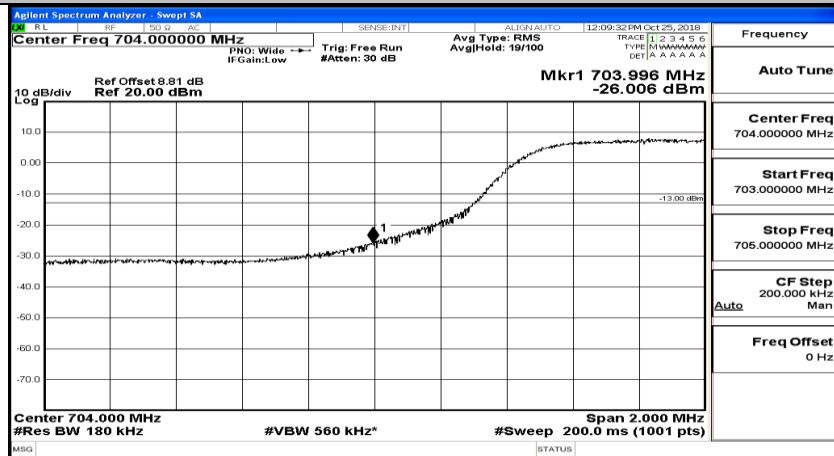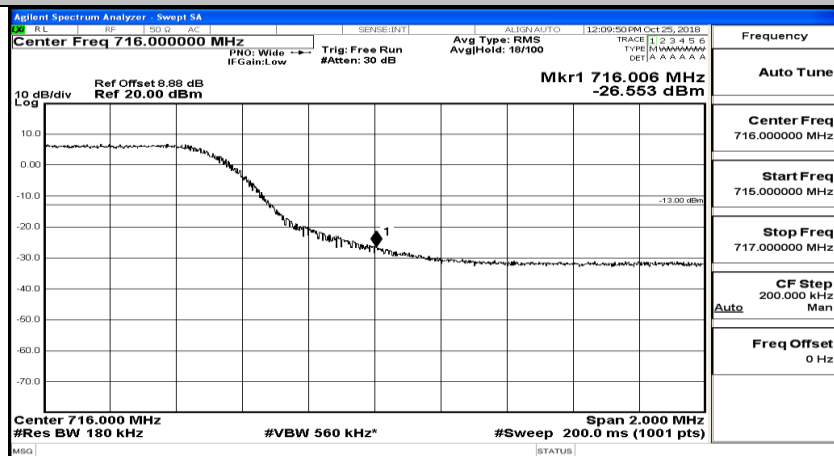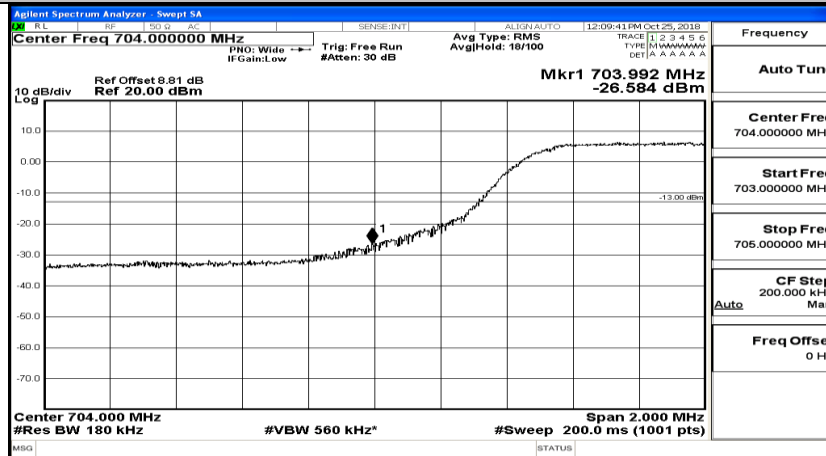| Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM |
|---|
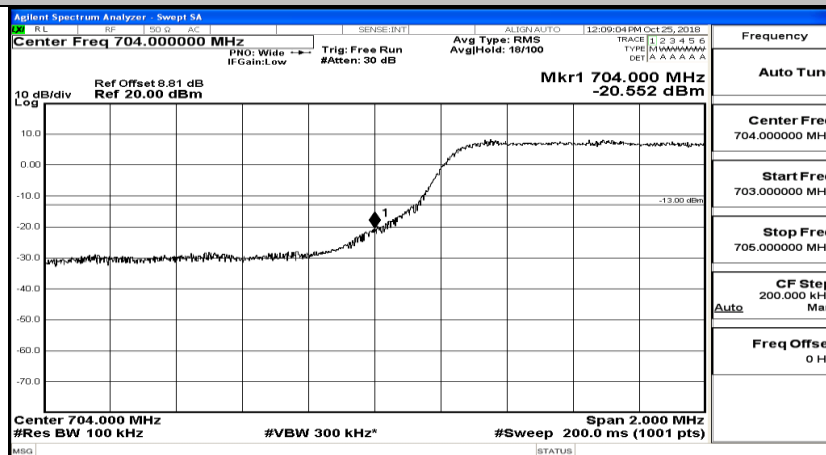
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK
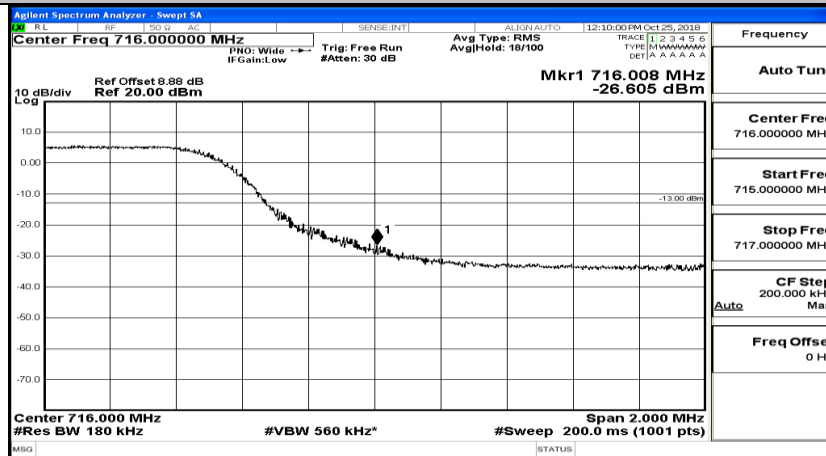

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

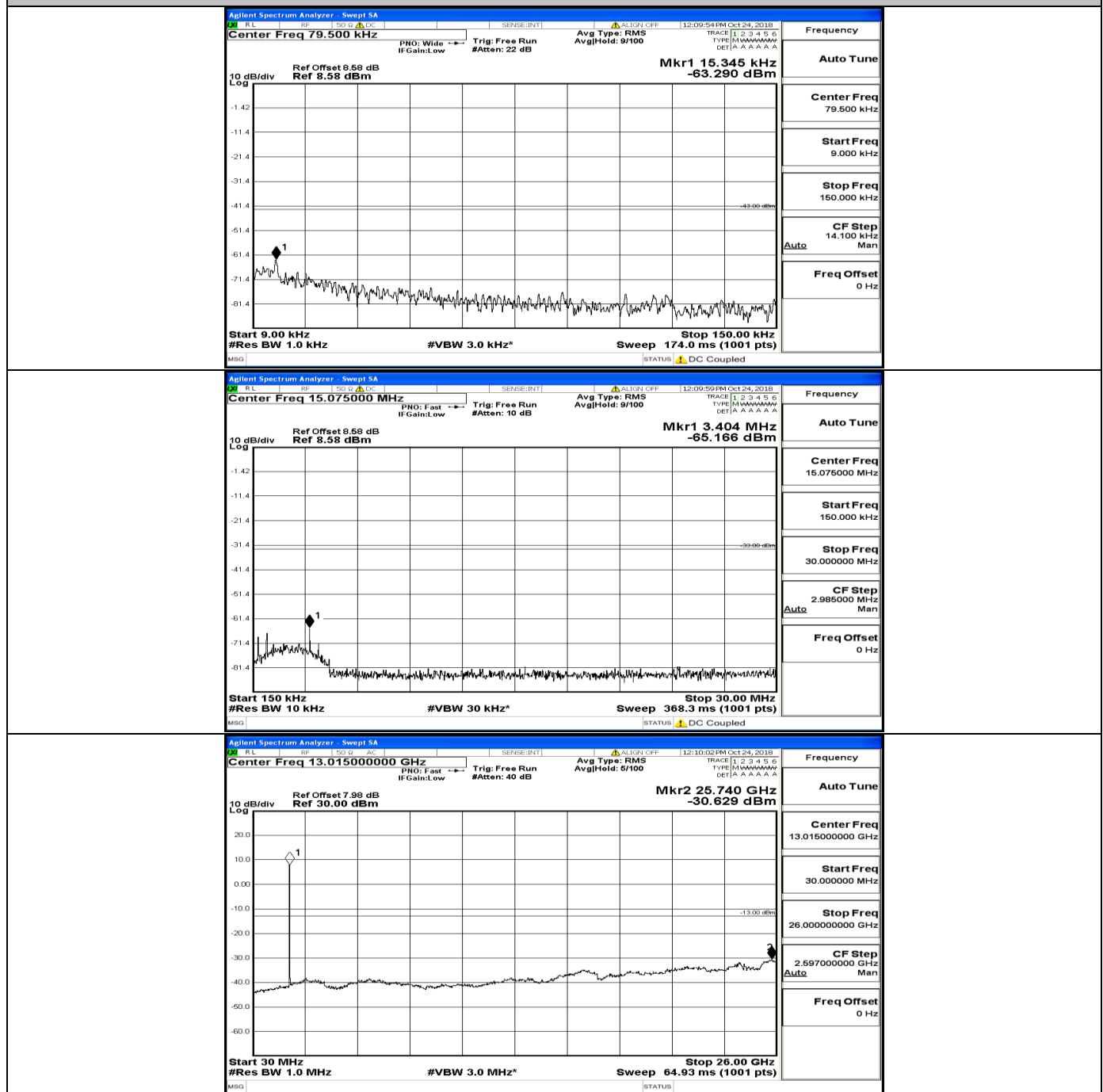| Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM |
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H.5 Conducted Spurious Emission

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

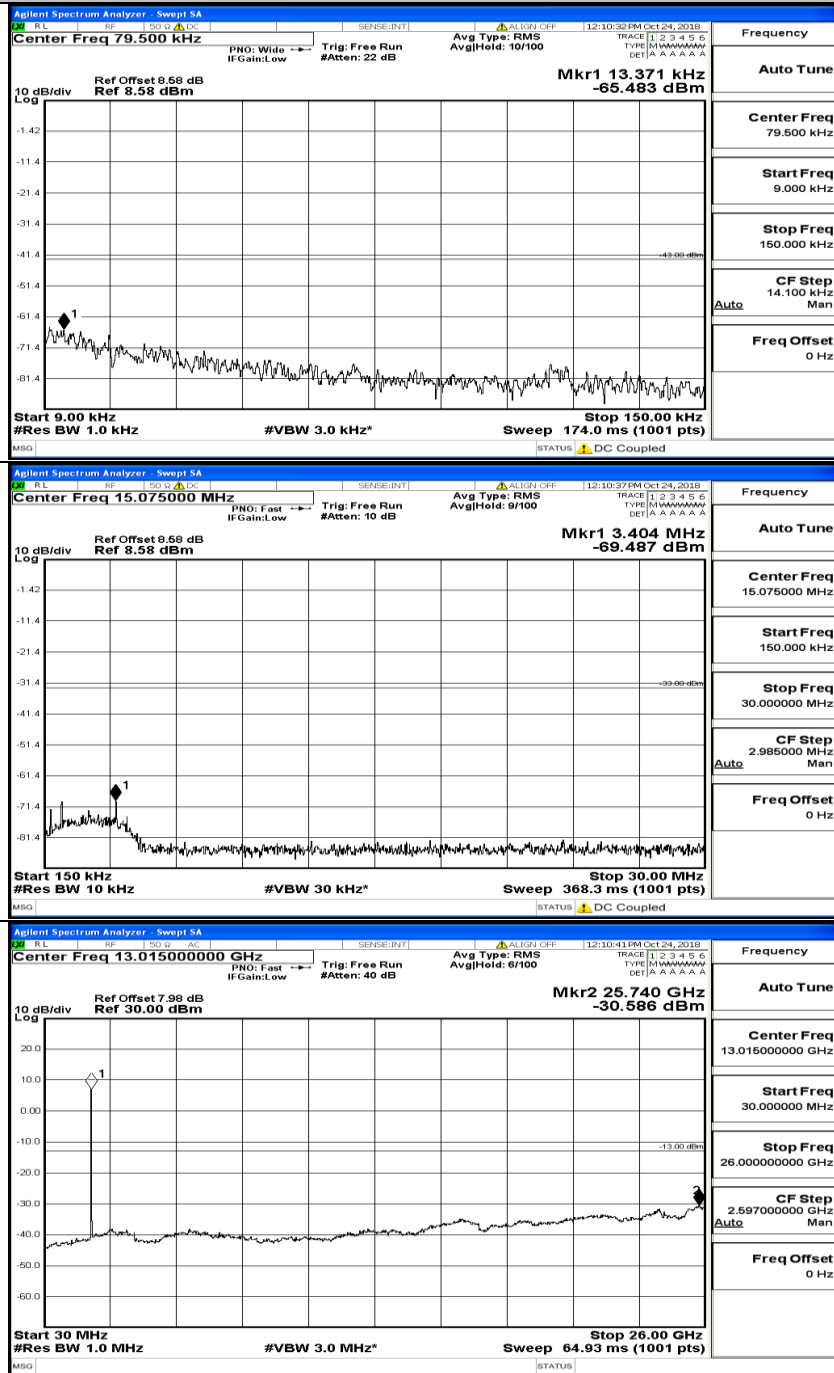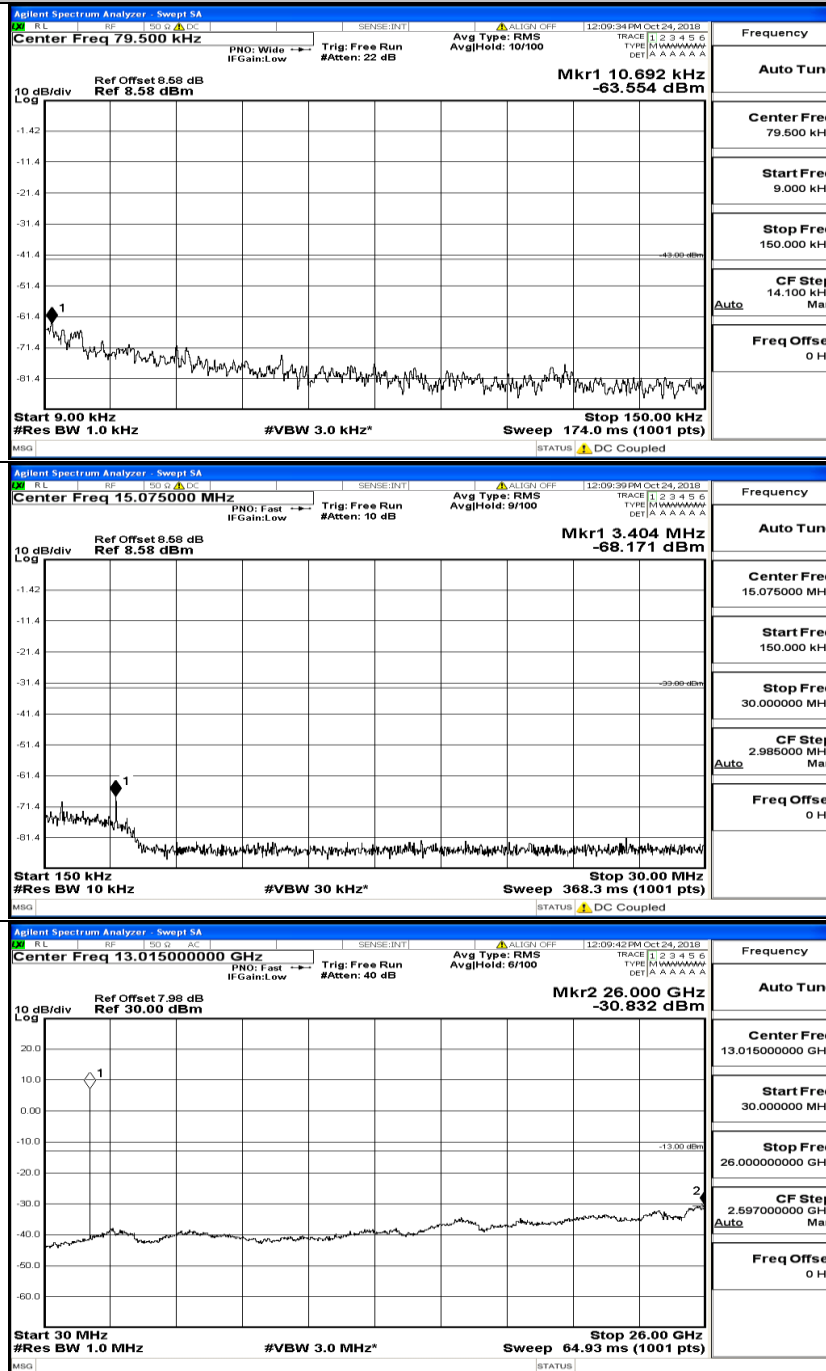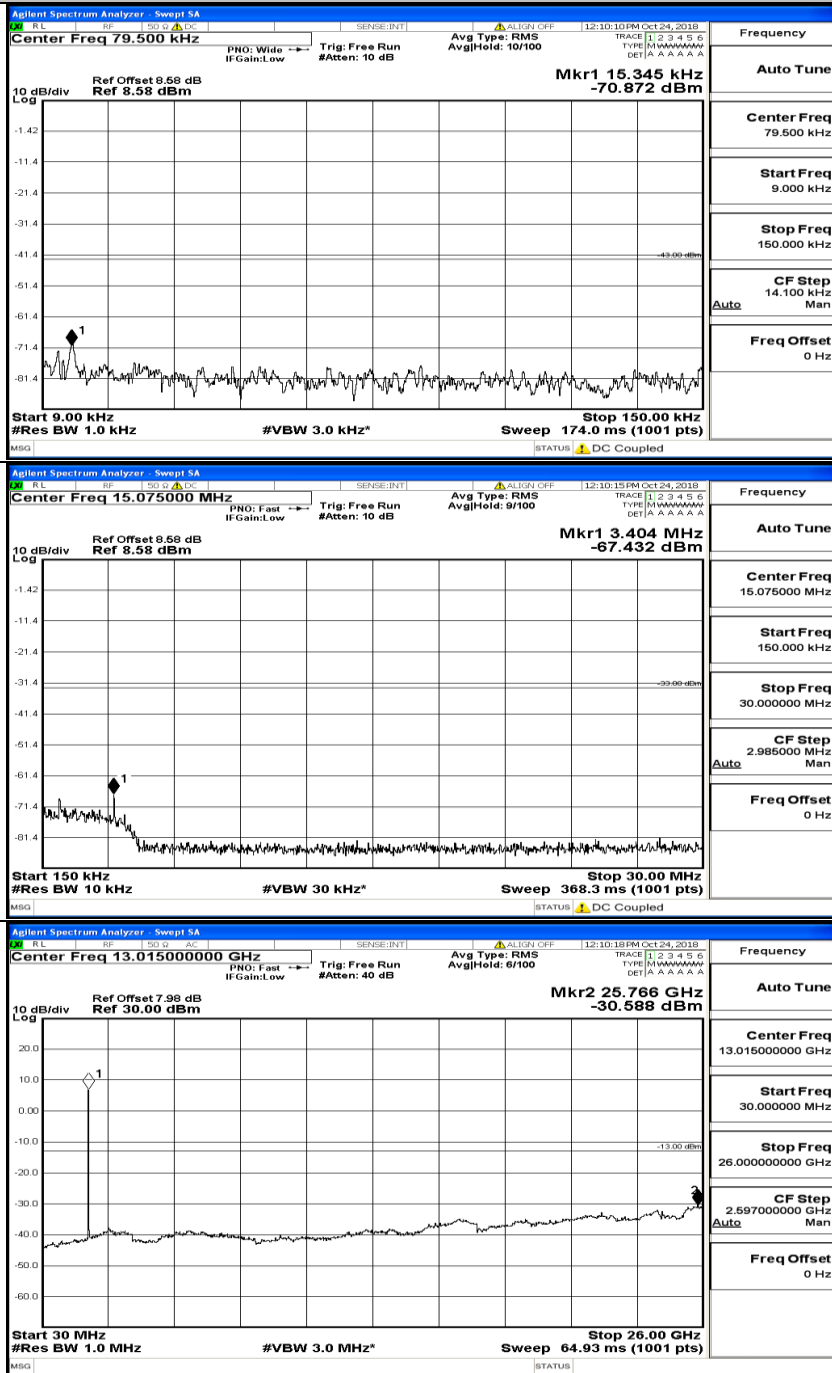| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK |
| --- |

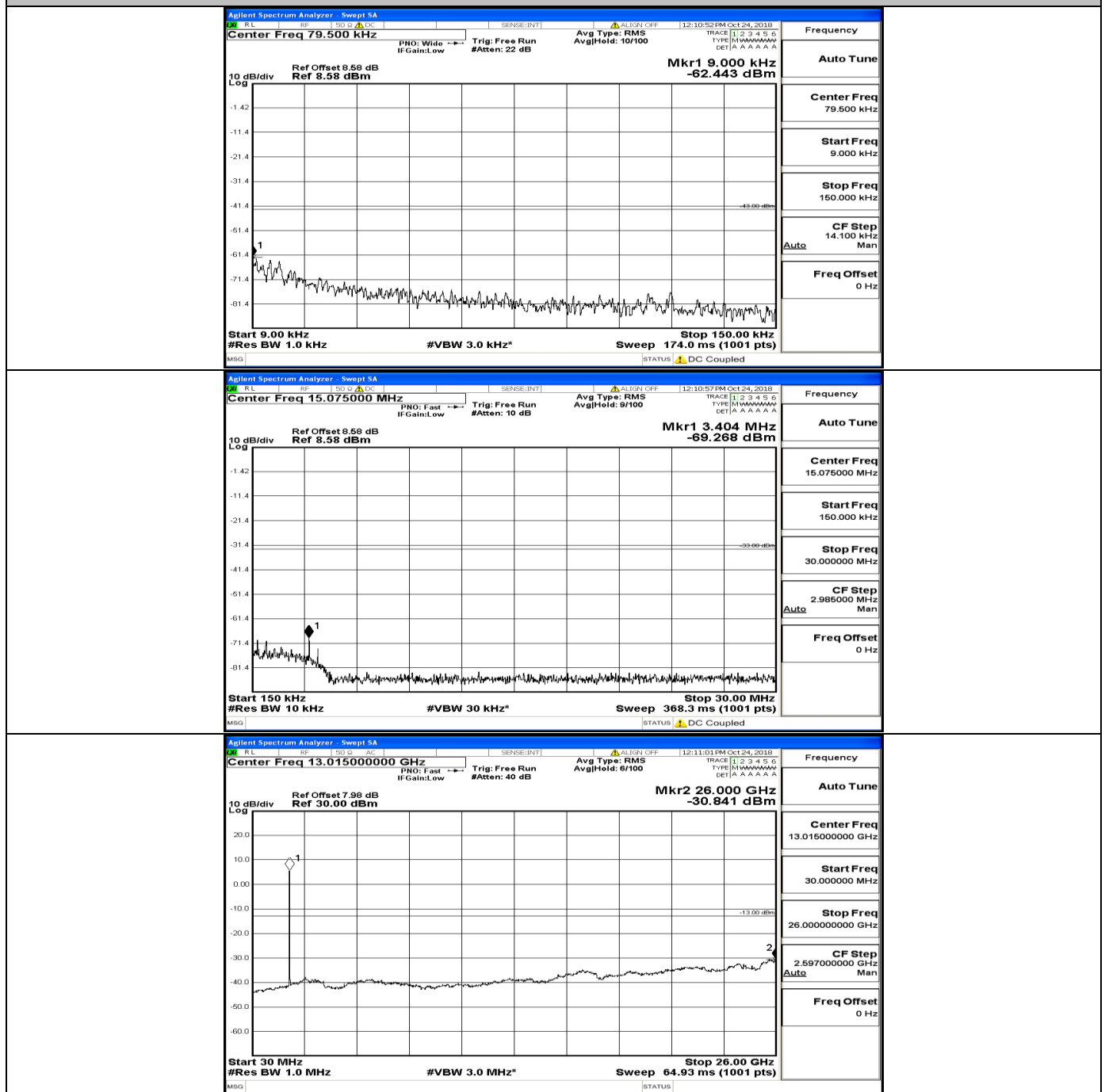## CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK

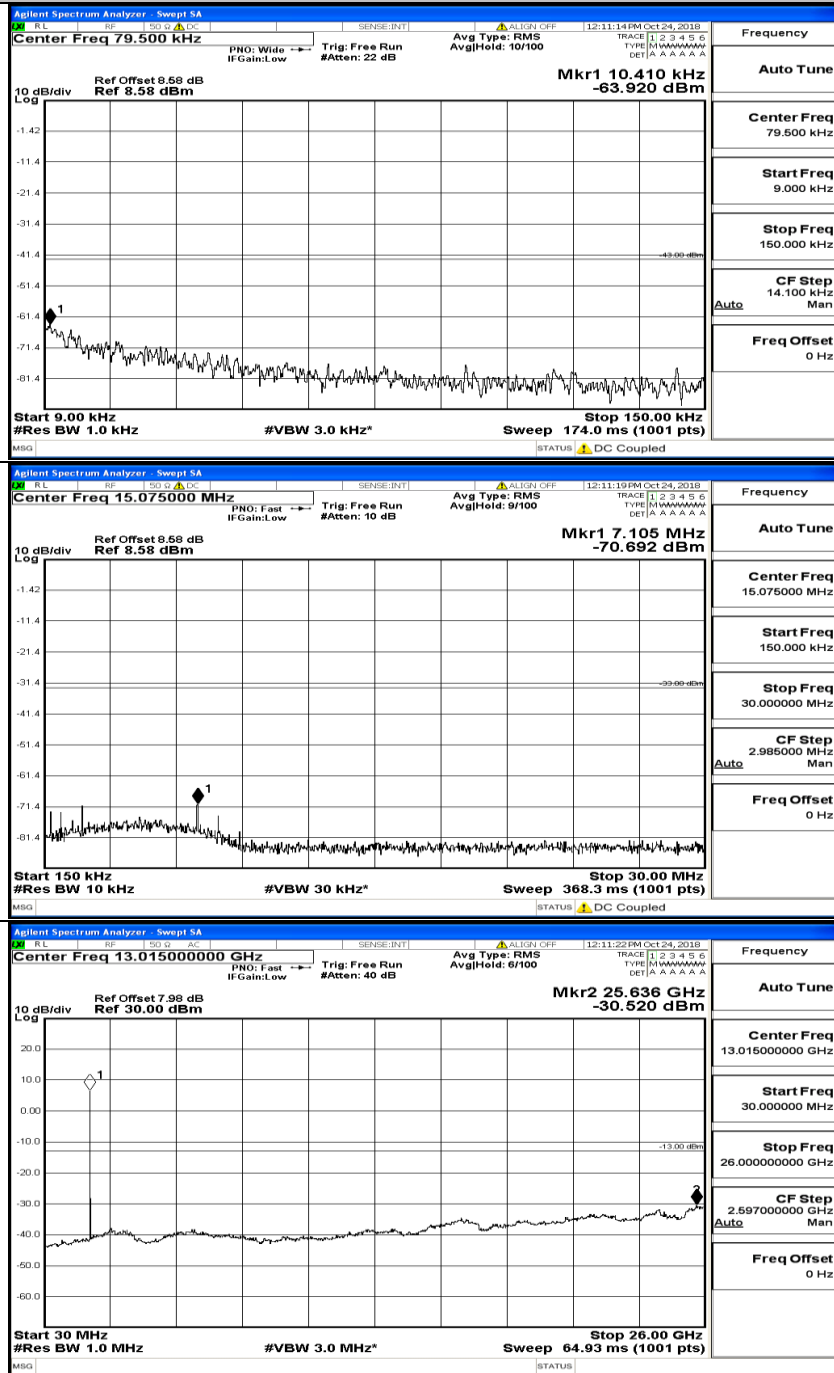| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM |
| --- |

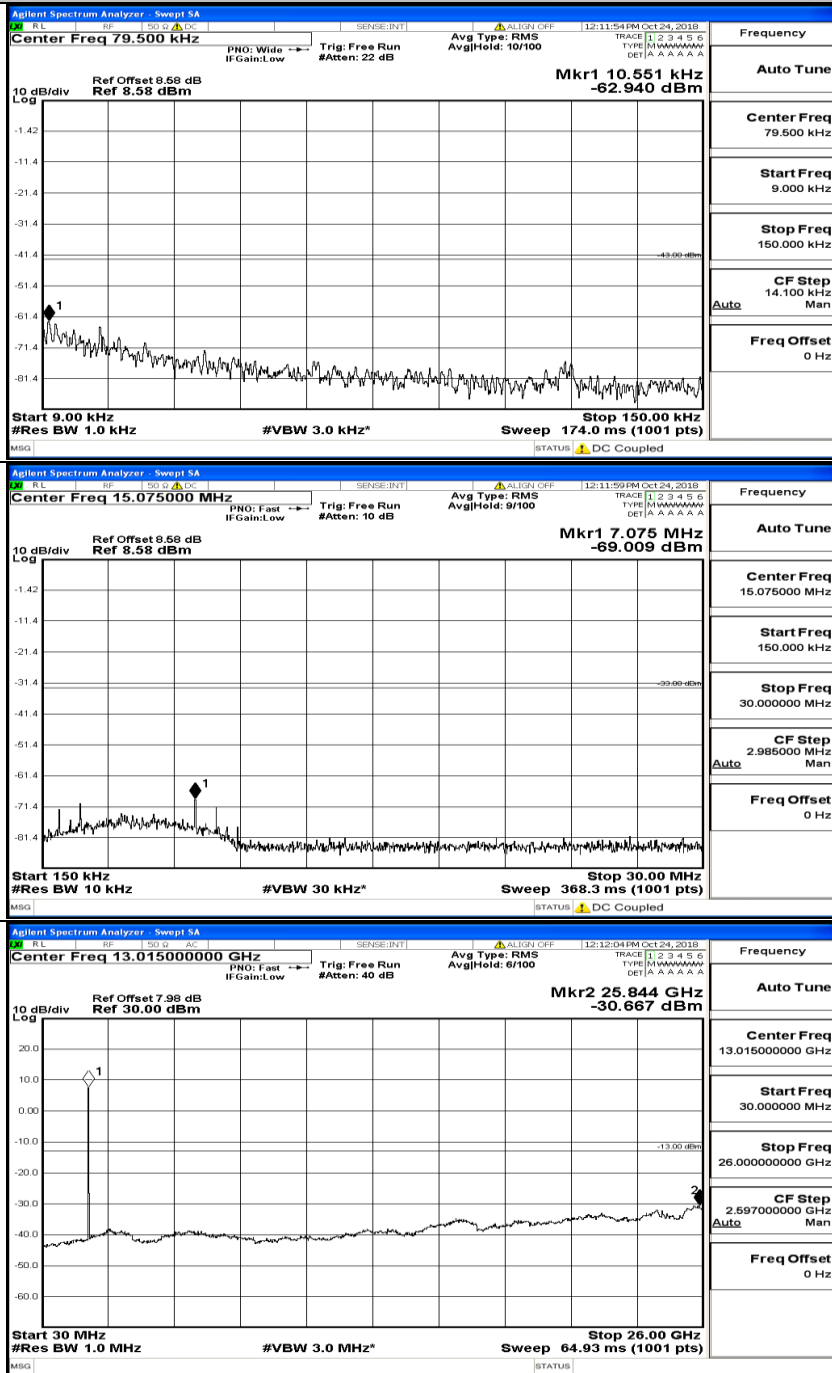## CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM

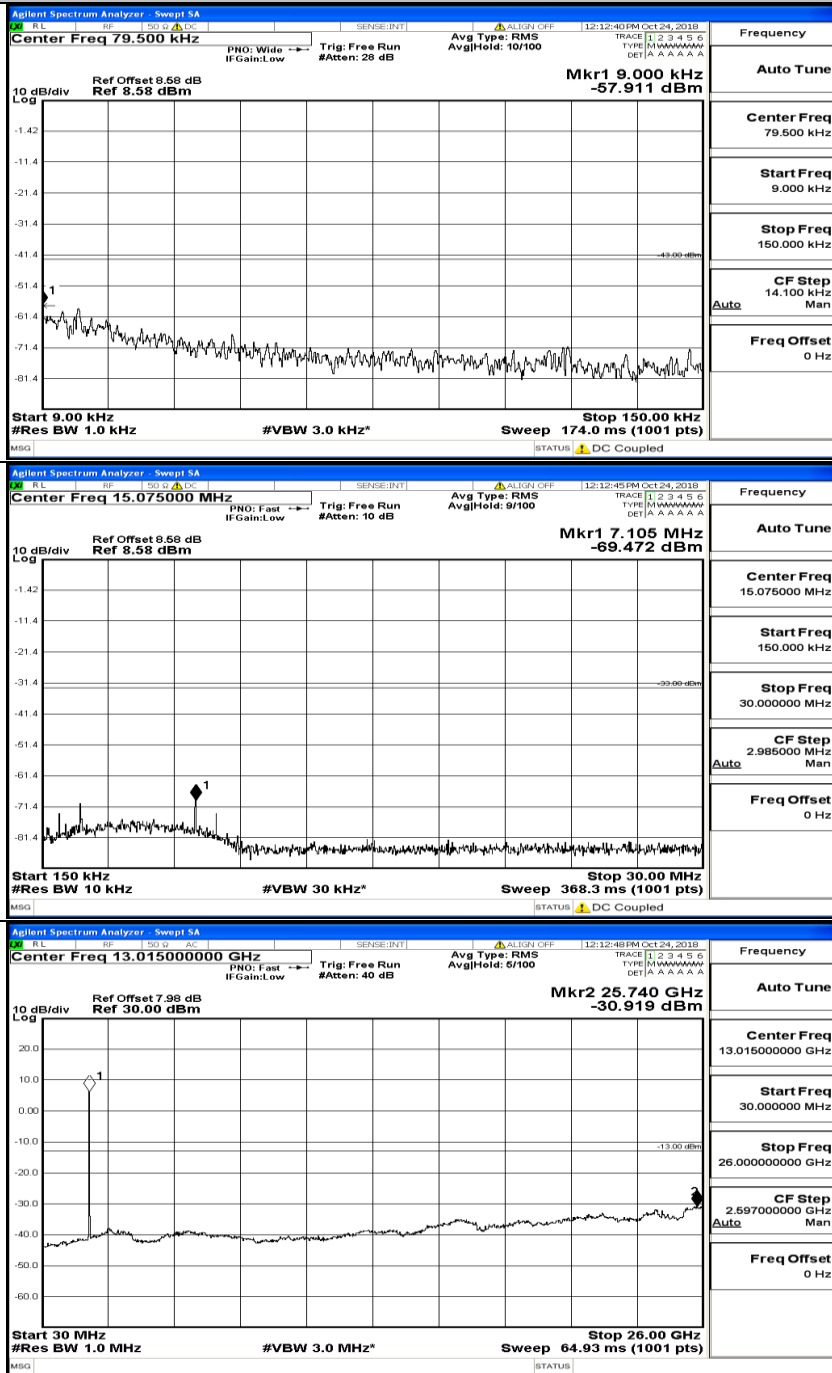## CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM

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CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK

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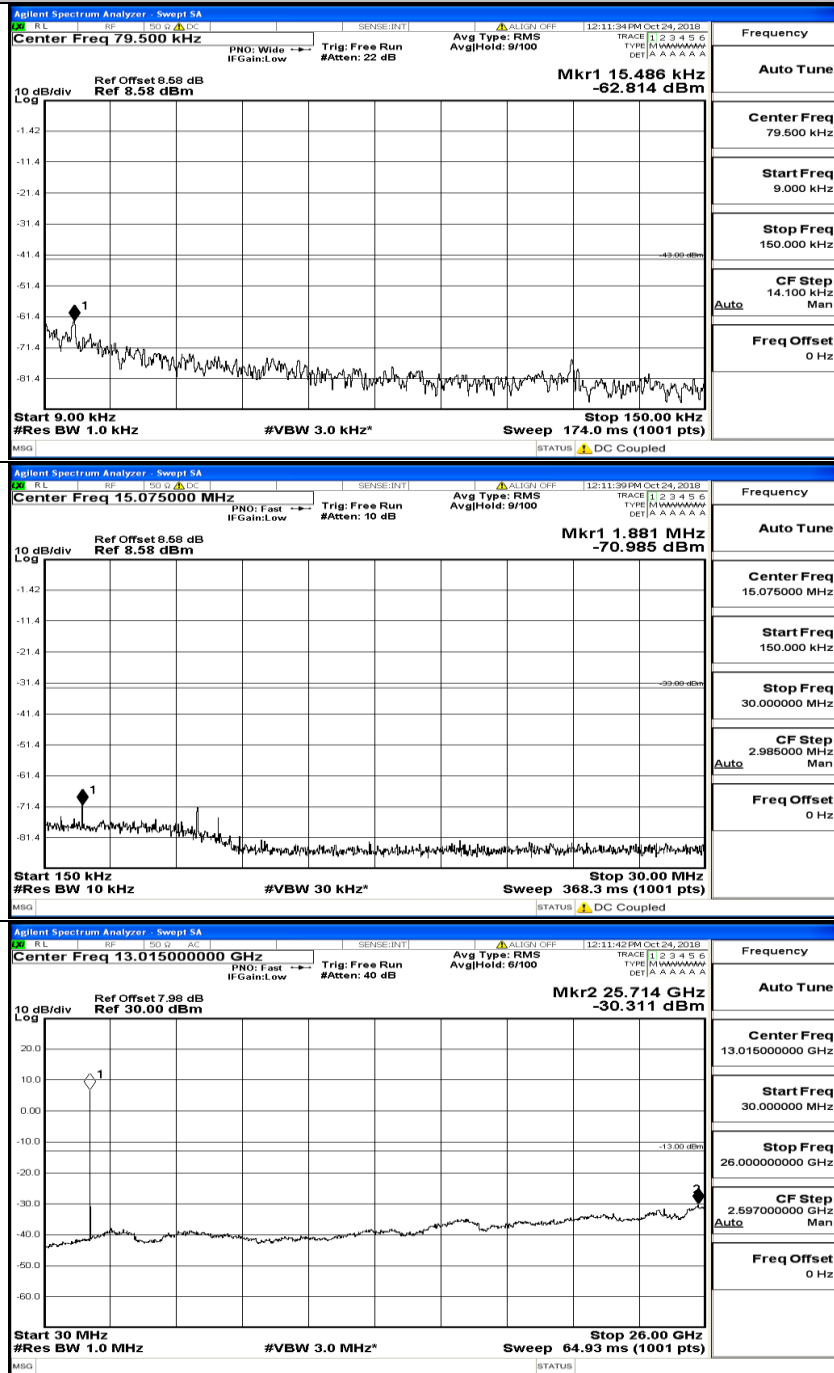## CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK

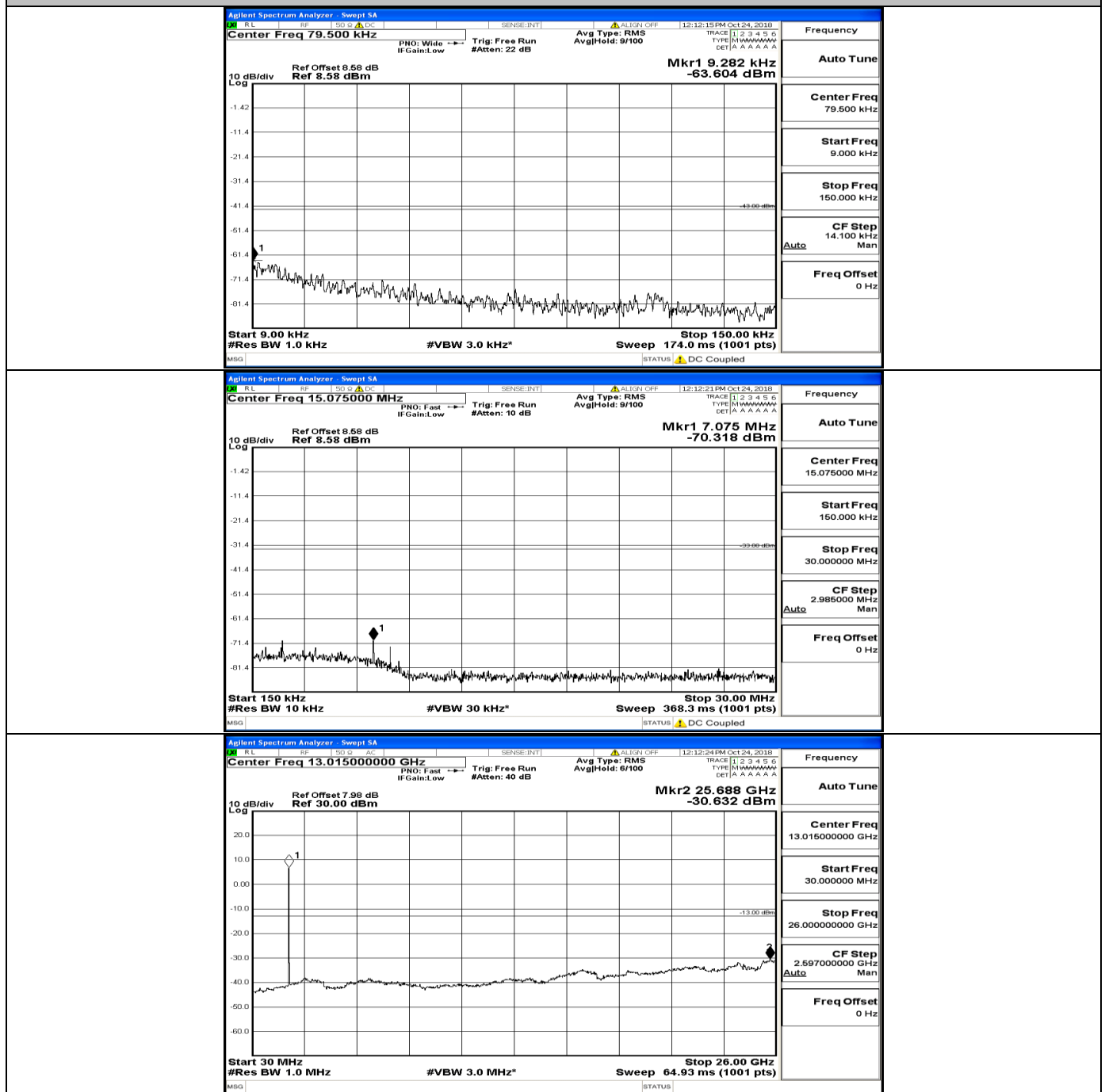| CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK |
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CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM