

Appendix H: Test Data for E-UTRA Band 13

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

H.1 Conducted Output Power

<SIM1>

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.26	22.22	PASS
		1	12	23.29	22.25	PASS
		1	24	23.34	22.27	PASS
		12	0	23.21	22.23	PASS
		12	6	23.25	22.50	PASS
		12	13	23.35	22.39	PASS
		25	0	23.33	22.45	PASS
	MCH	1	0	23.43	22.70	PASS
		1	12	23.37	22.85	PASS
		1	24	23.47	22.74	PASS
		12	0	23.35	22.32	PASS
		12	6	23.34	22.40	PASS
		12	13	23.33	22.17	PASS
		25	0	23.45	22.51	PASS
	HCH	1	0	23.45	22.28	PASS
		1	12	23.43	22.34	PASS
		1	24	23.39	22.32	PASS
		12	0	23.34	22.21	PASS
		12	6	23.36	22.24	PASS
		12	13	23.39	22.35	PASS
		25	0	23.40	22.09	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	23.27	22.04	PASS
		1	24	23.38	22.20	PASS
		1	49	23.40	22.17	PASS
		25	0	23.32	22.26	PASS
		25	12	23.47	22.30	PASS
		25	25	23.47	22.05	PASS
		50	0	23.47	22.39	PASS
	MCH	1	0	23.26	22.01	PASS
		1	24	23.37	22.19	PASS
		1	49	23.43	22.14	PASS
		25	0	23.25	22.23	PASS
		25	12	23.42	22.33	PASS
		25	25	23.42	22.01	PASS
		50	0	23.47	22.38	PASS
	HCH	1	0	23.25	22.03	PASS
		1	24	23.37	22.18	PASS
		1	49	23.41	22.10	PASS
		25	0	23.30	22.22	PASS
		25	12	23.45	22.38	PASS
		25	25	23.46	22.03	PASS
		50	0	23.41	22.38	PASS

<SIM2>

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	23.13	22.09	PASS
		1	12	23.18	22.10	PASS
		1	24	23.20	22.13	PASS
		12	0	23.11	22.06	PASS
		12	6	23.11	22.41	PASS
		12	13	23.22	22.24	PASS
		25	0	23.22	22.29	PASS
	MCH	1	0	23.35	22.58	PASS
		1	12	23.22	22.76	PASS
		1	24	23.39	22.62	PASS
		12	0	23.27	22.21	PASS
		12	6	23.22	22.26	PASS
		12	13	23.26	22.07	PASS
		25	0	23.28	22.42	PASS
	HCH	1	0	23.31	22.16	PASS
		1	12	23.26	22.18	PASS
		1	24	23.30	22.24	PASS
		12	0	23.22	22.12	PASS
		12	6	23.24	22.07	PASS
		12	13	23.24	22.21	PASS
		25	0	23.32	22.01	PASS

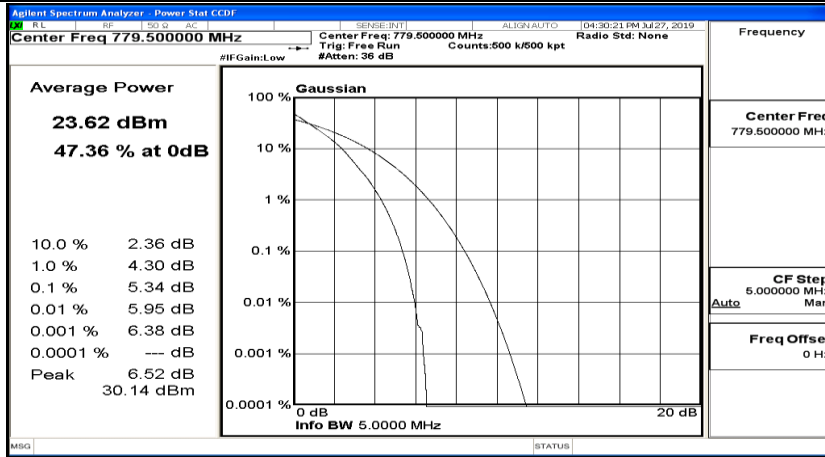
Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.12	21.93	PASS
		1	24	23.22	22.08	PASS
		1	49	23.28	22.06	PASS
		25	0	23.15	22.12	PASS
		25	12	23.37	22.16	PASS
		25	25	23.37	21.96	PASS
		50	0	23.34	22.25	PASS
	MCH	1	0	23.13	21.85	PASS
		1	24	23.22	22.03	PASS
		1	49	23.35	21.98	PASS
		25	0	23.14	22.12	PASS
		25	12	23.29	22.21	PASS
		25	25	23.27	21.89	PASS
		50	0	23.33	22.27	PASS
	HCH	1	0	23.17	21.95	PASS
		1	24	23.24	22.01	PASS
		1	49	23.25	22.01	PASS
		25	0	23.15	22.06	PASS
		25	12	23.29	22.25	PASS
		25	25	23.29	21.89	PASS
		50	0	23.32	22.21	PASS

H.2 Peak-to-Average Ratio

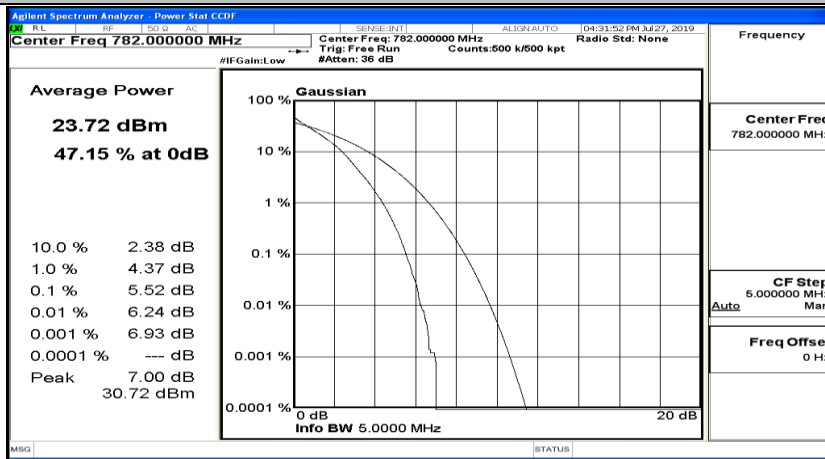
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.34	<13	PASS
	MCH	5.52	<13	PASS
	HCH	5.23	<13	PASS
16QAM	LCH	6.24	<13	PASS
	MCH	6.32	<13	PASS
	HCH	6.16	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.43	<13	PASS
	MCH	5.42	<13	PASS
	HCH	5.41	<13	PASS
16QAM	LCH	6.18	<13	PASS
	MCH	6.19	<13	PASS
	HCH	6.16	<13	PASS

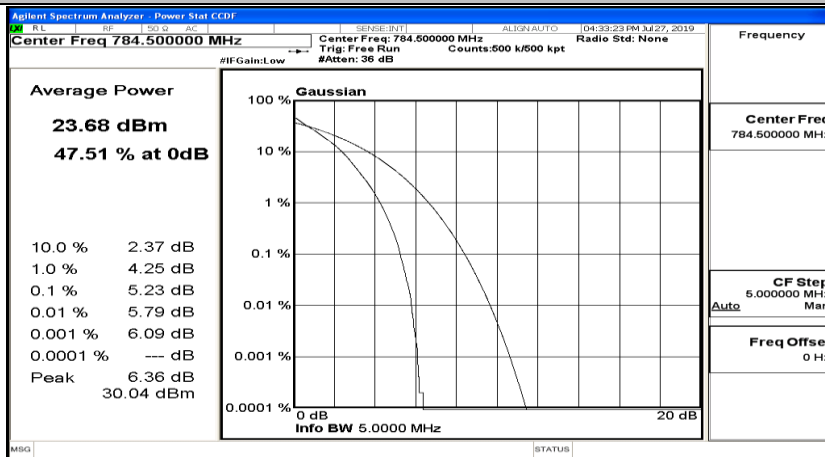
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



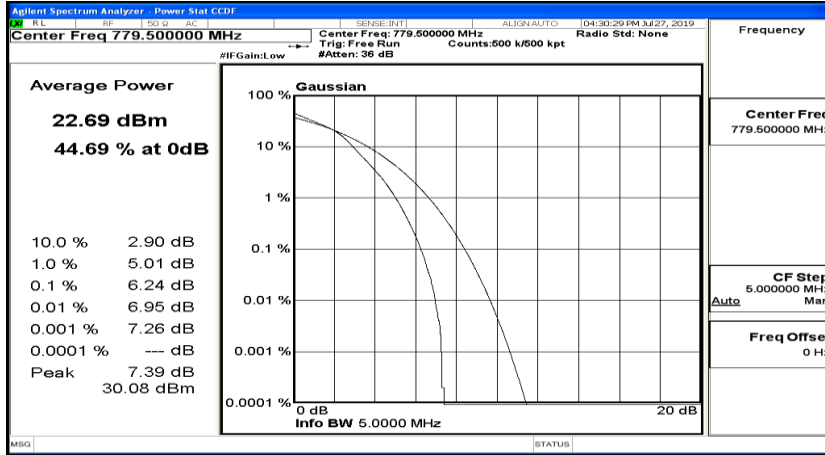
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



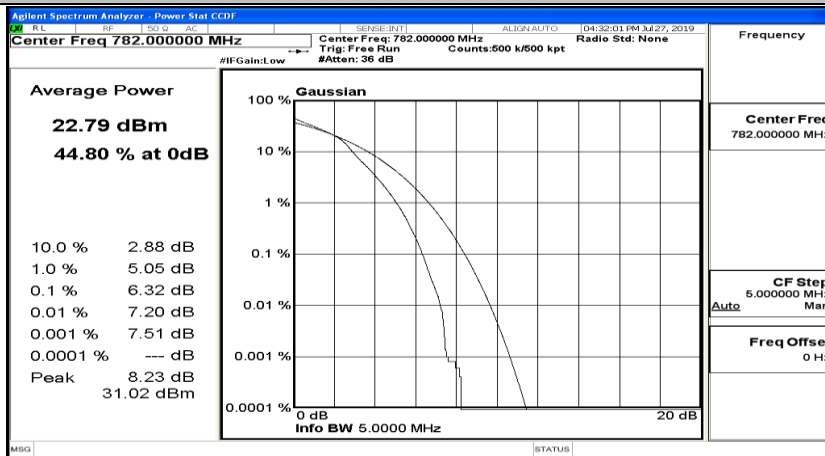
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



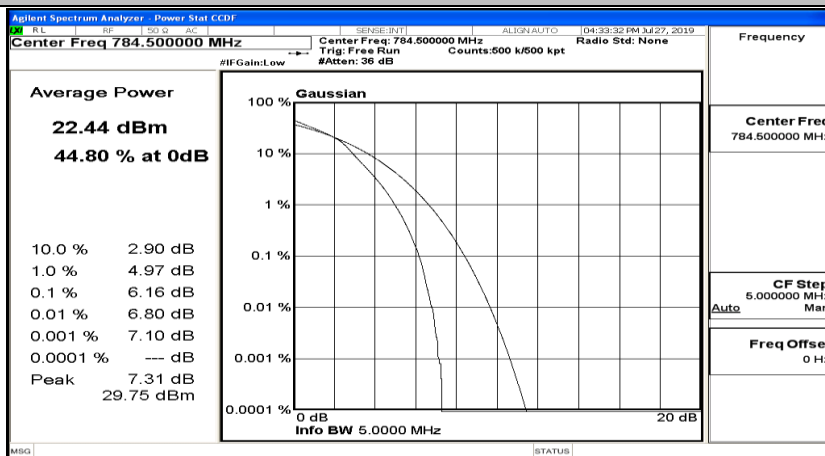
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



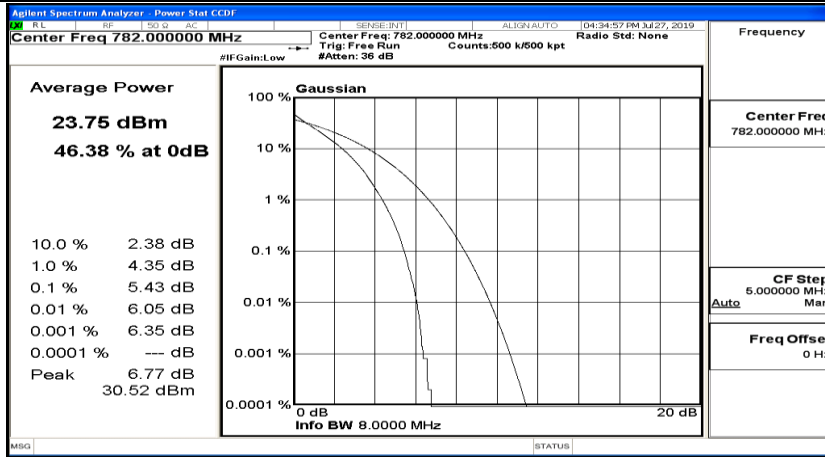
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



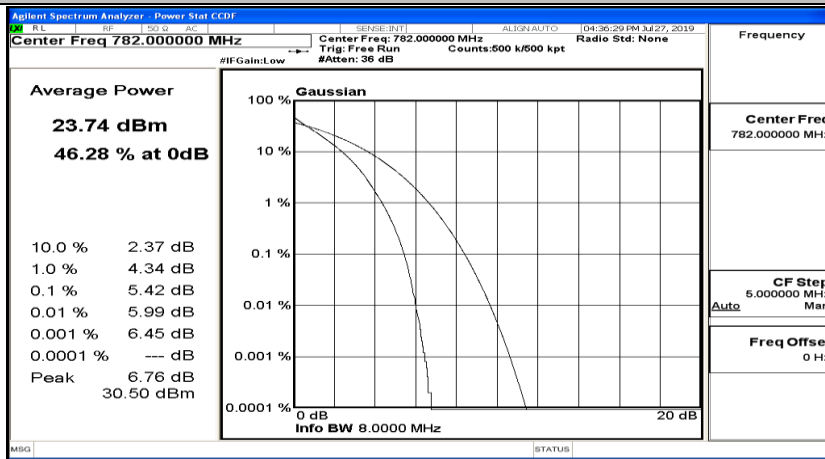
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



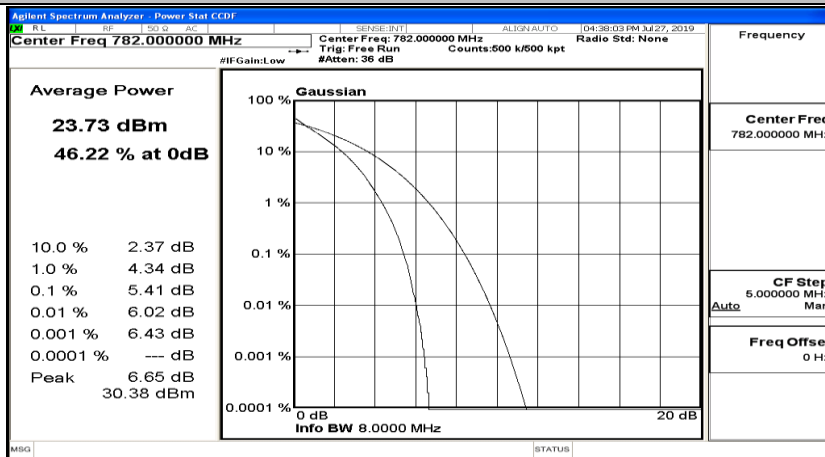
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_QPSK



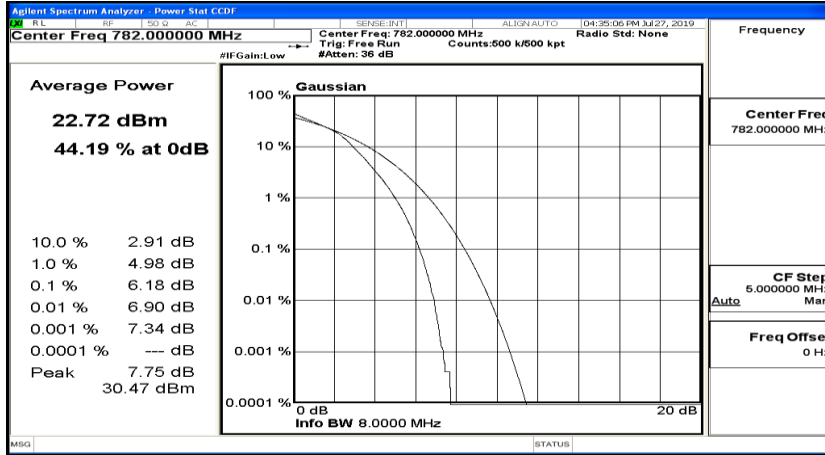
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) MCH_QPSK



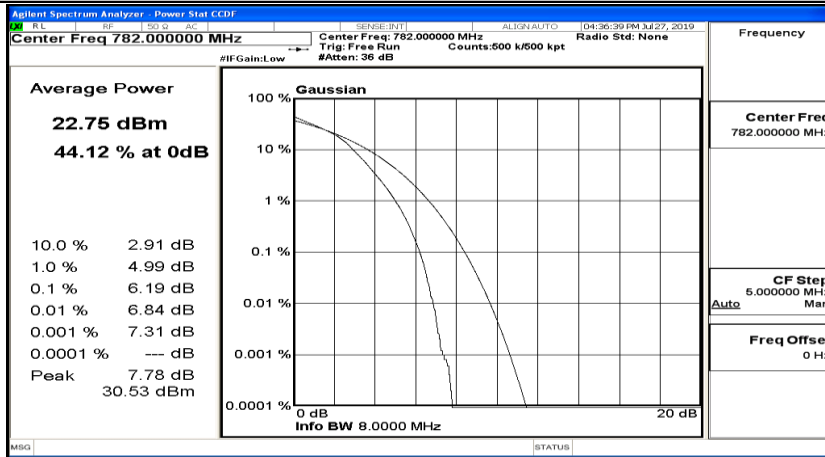
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) HCH_QPSK



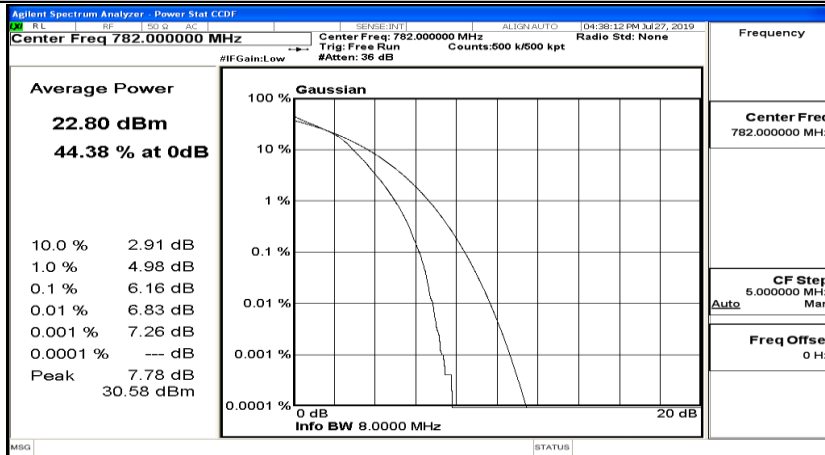
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

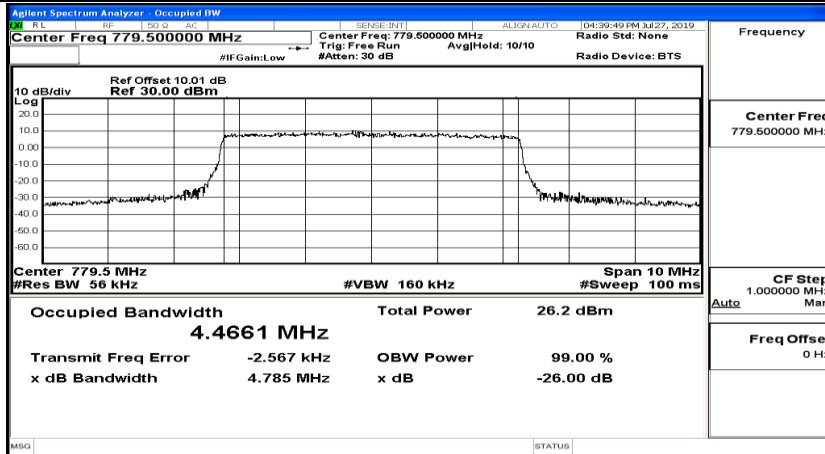


H.3 26dB Bandwidth and Occupied Bandwidth

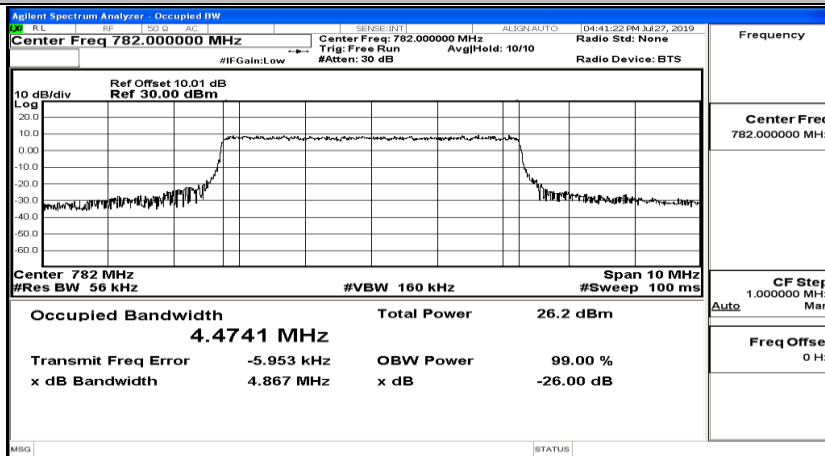
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4661	4.785	PASS
	MCH	4.4741	4.867	PASS
	HCH	4.4704	4.790	PASS
16QAM	LCH	4.4695	4.823	PASS
	MCH	4.4789	4.885	PASS
	HCH	4.4711	5.006	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9490	9.572	PASS
	MCH	8.9629	9.494	PASS
	HCH	8.9460	9.591	PASS
16QAM	LCH	8.9505	9.546	PASS
	MCH	8.9506	9.575	PASS
	HCH	8.9452	9.508	PASS

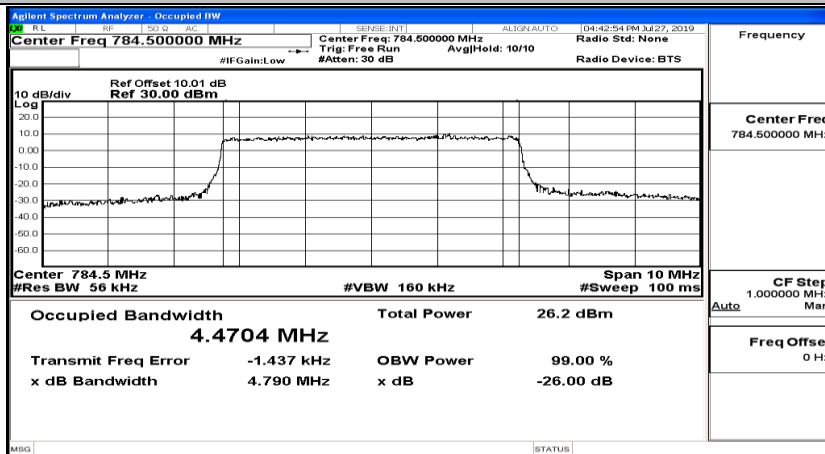
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



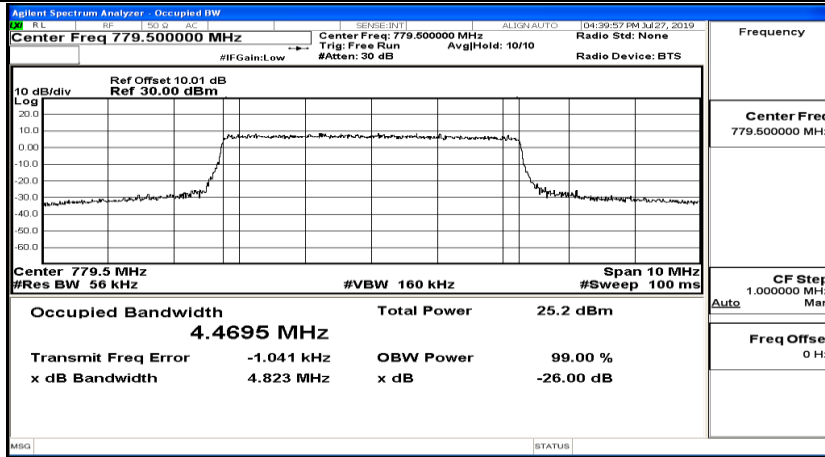
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



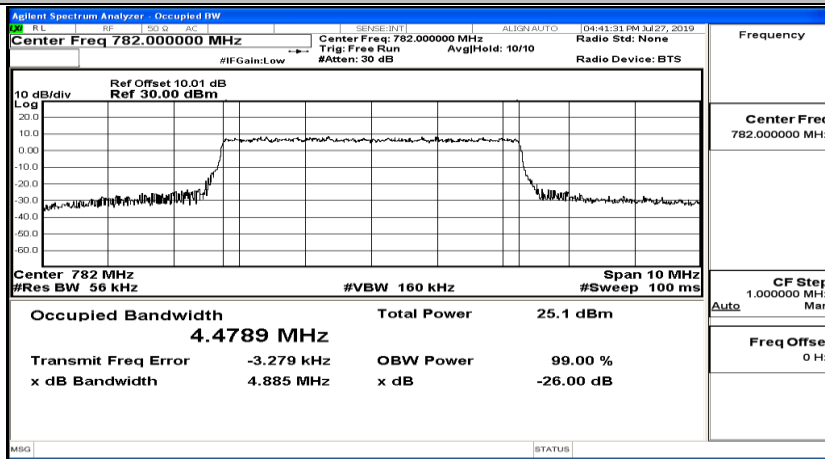
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



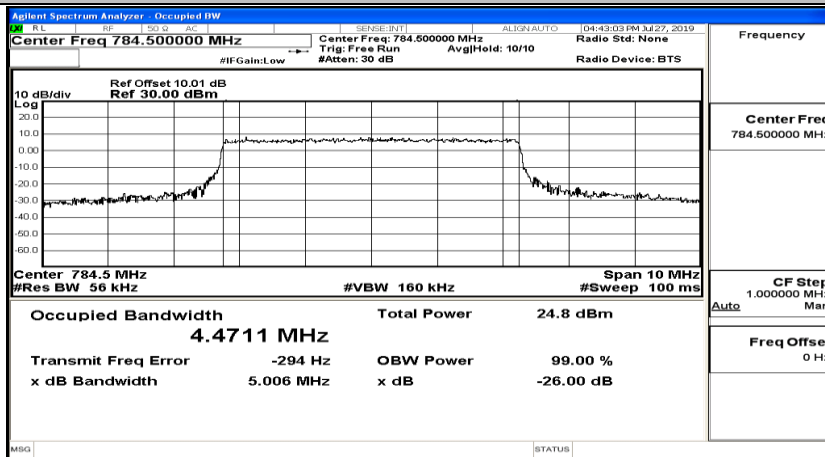
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



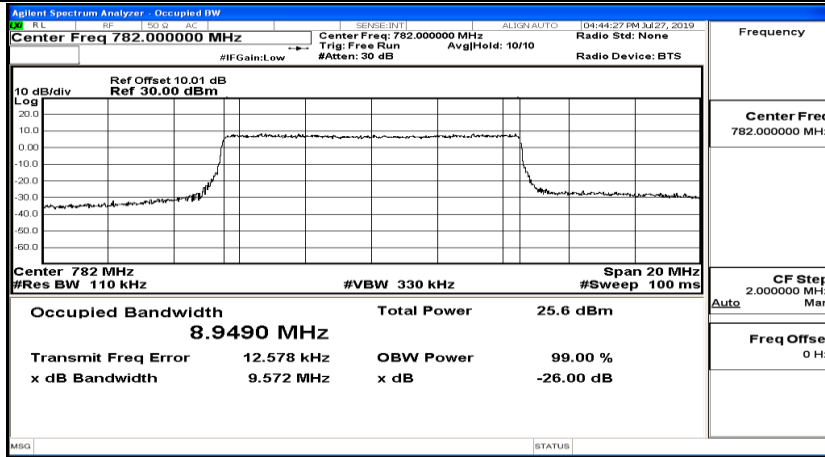
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



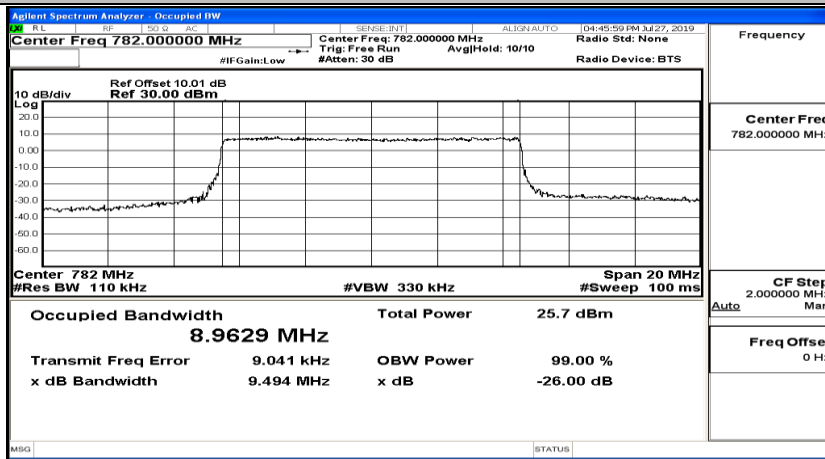
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



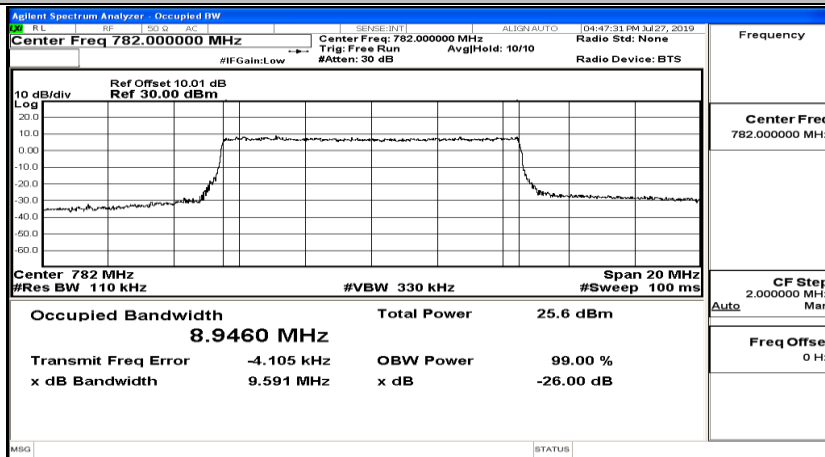
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



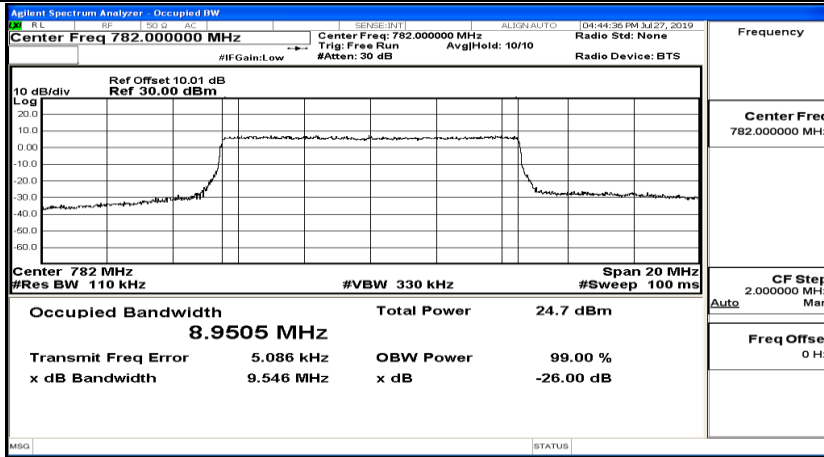
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



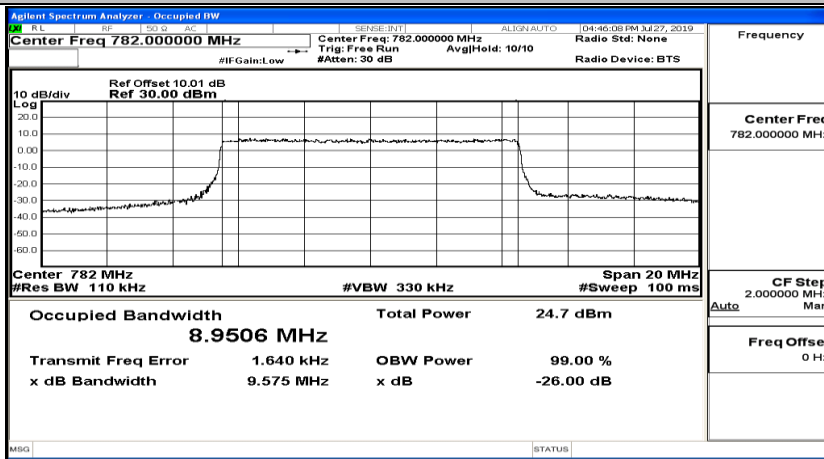
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



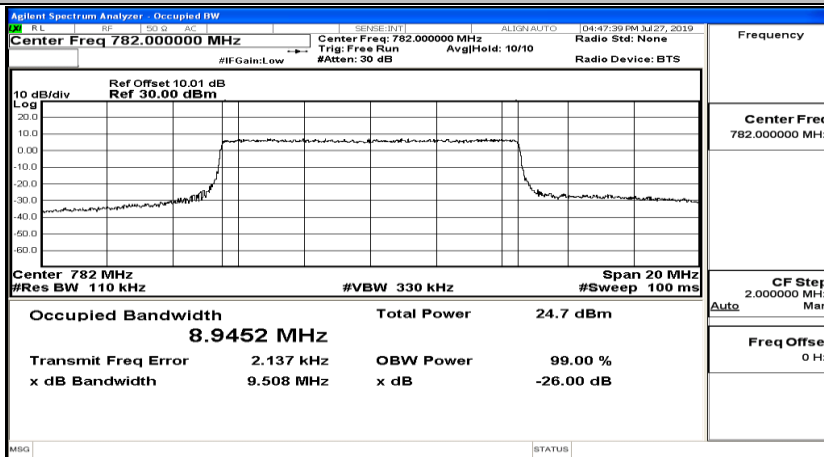
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



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

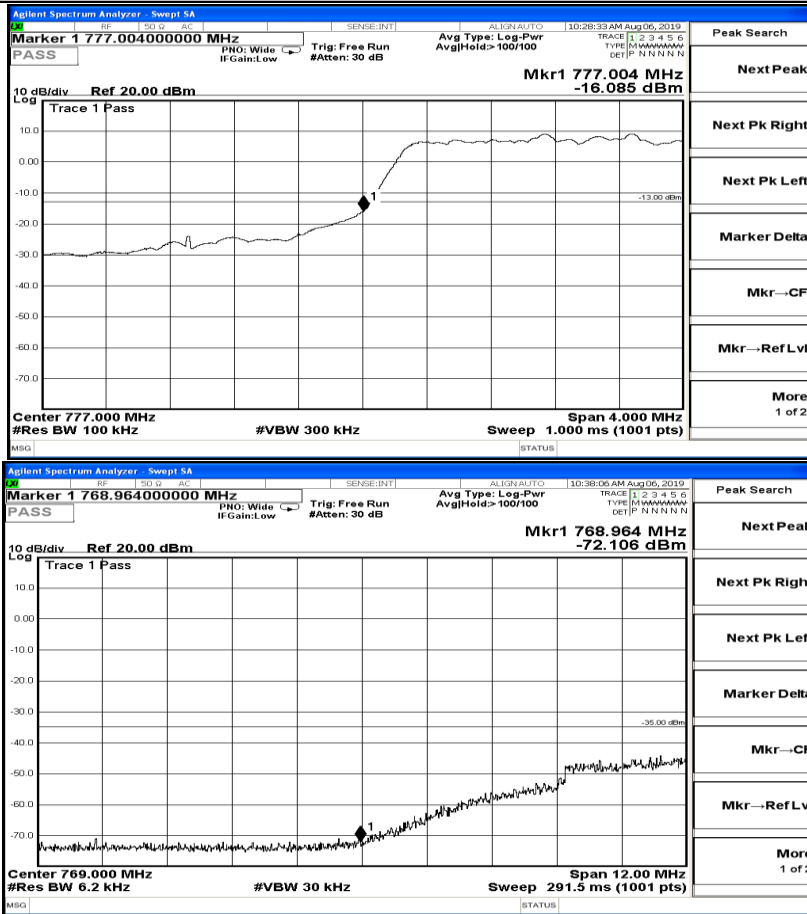


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

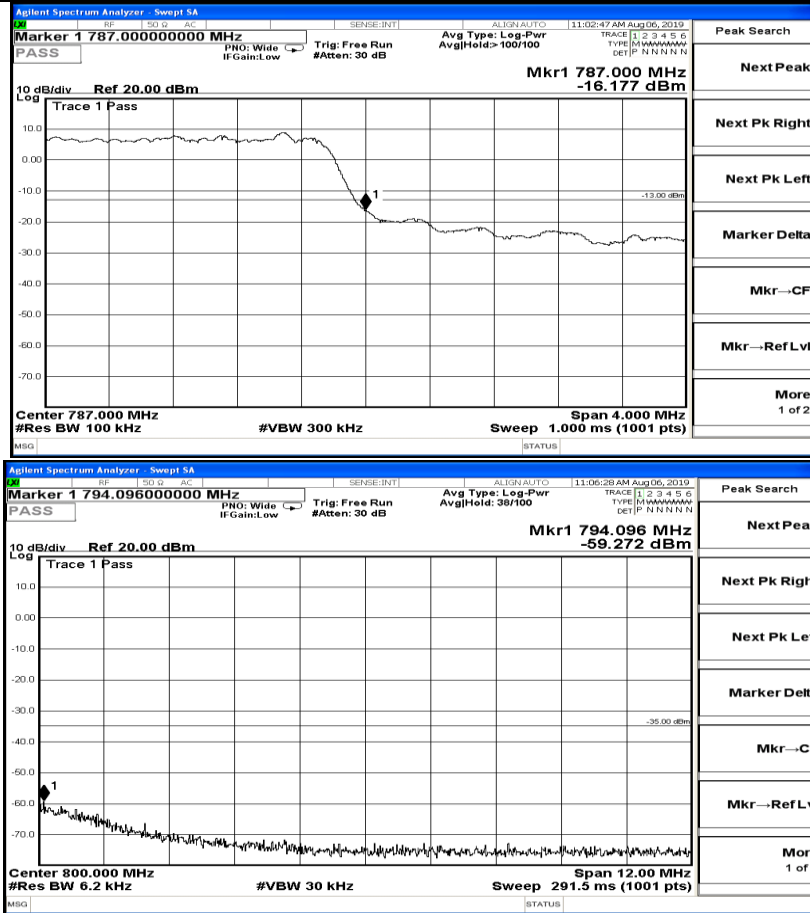


H.4 Band Edge

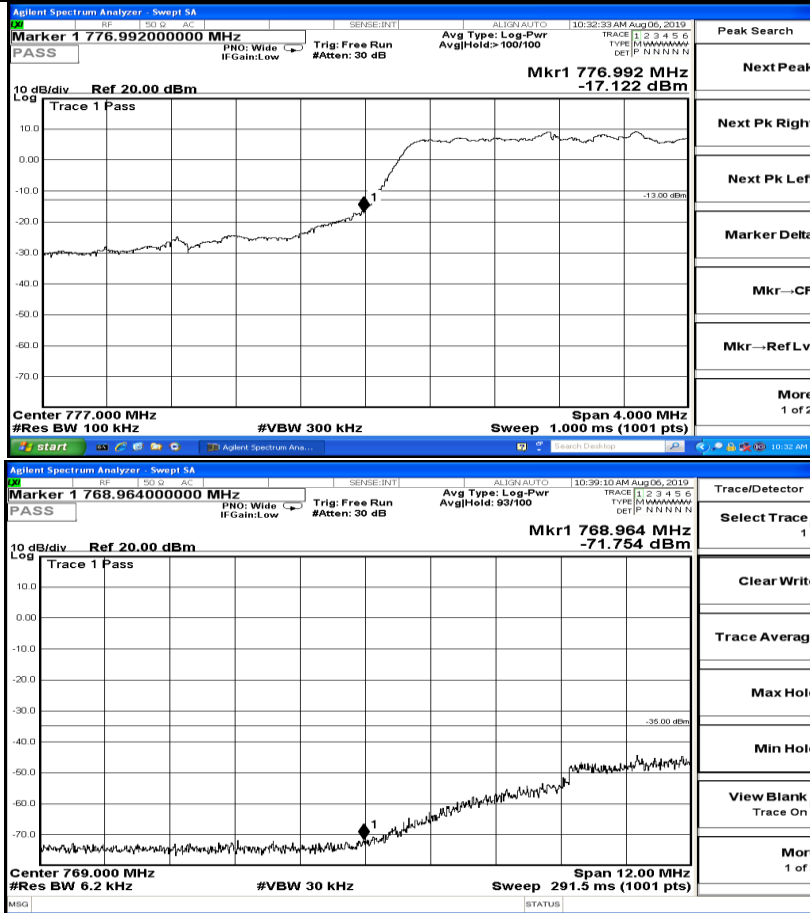
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



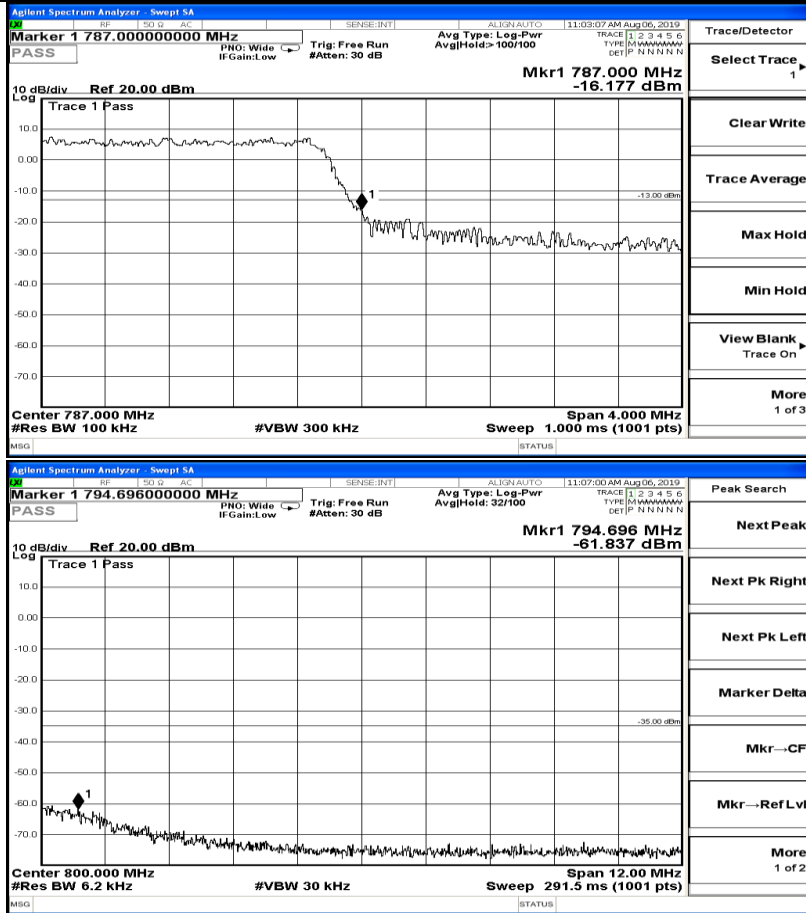
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



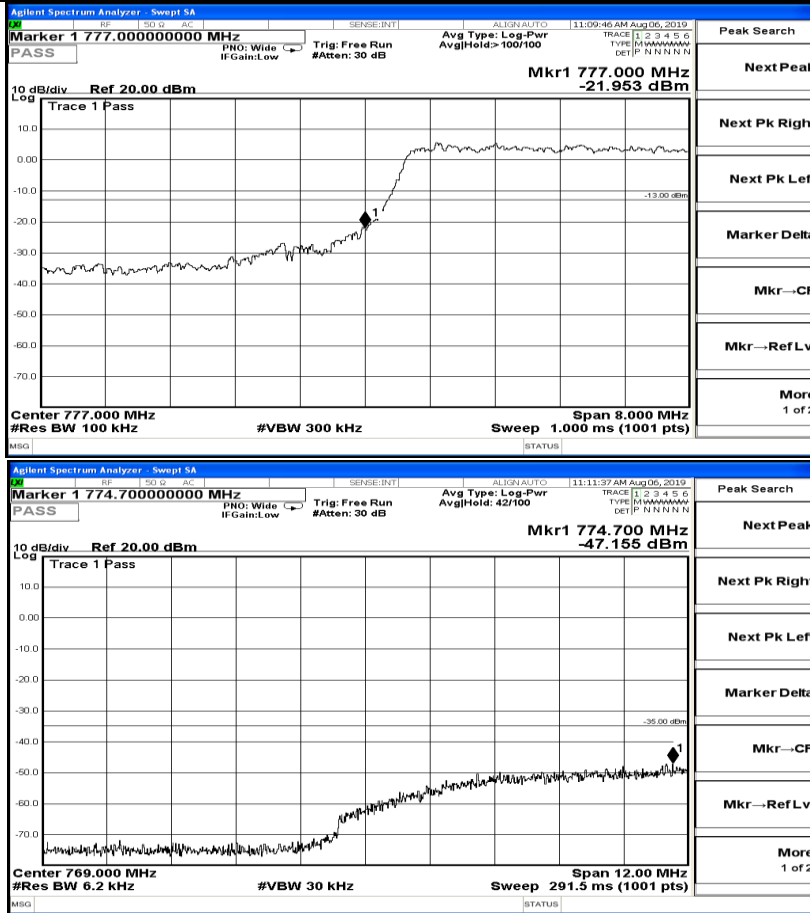
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



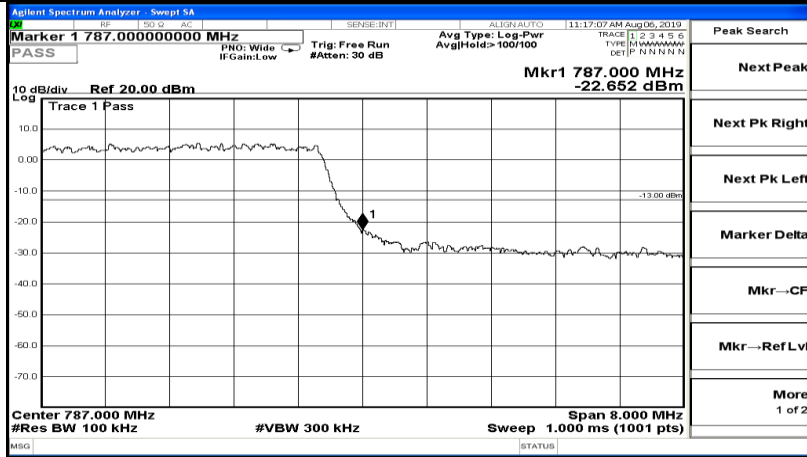
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



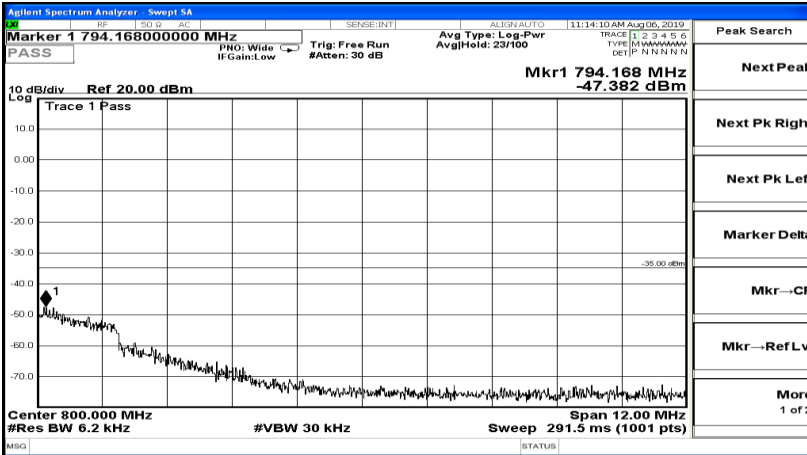
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



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

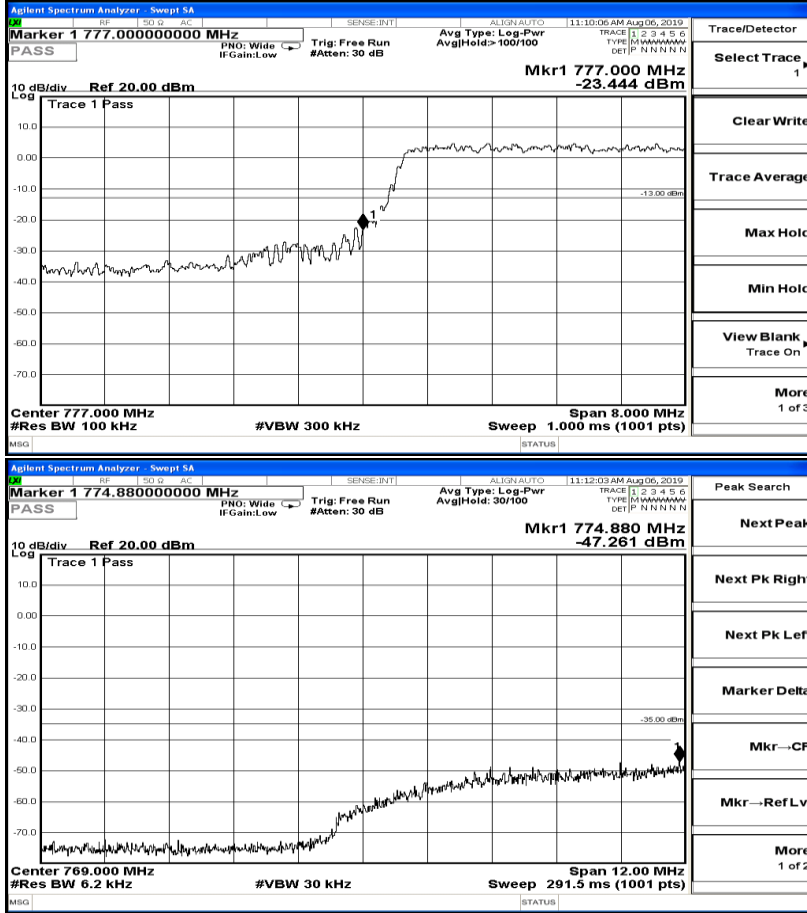


- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More 1 of 2

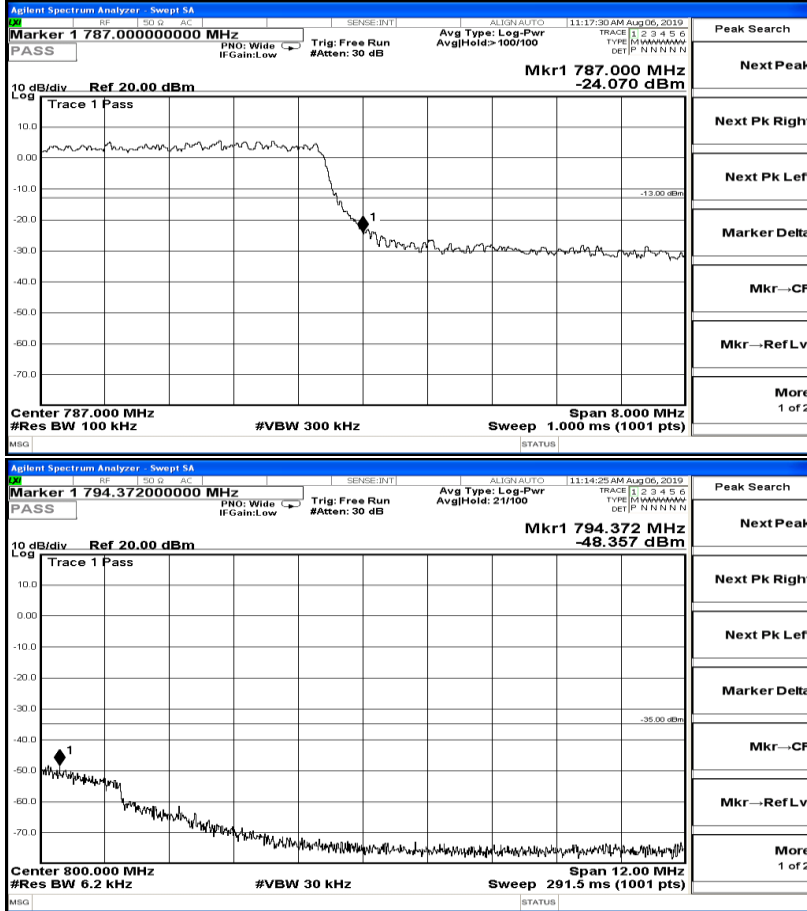


- Peak Search
- Next Peak
- Next Pk Right
- Next Pk Left
- Marker Delta
- Mkr→CF
- Mkr→Ref Lvl
- More 1 of 2

Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_16QAM

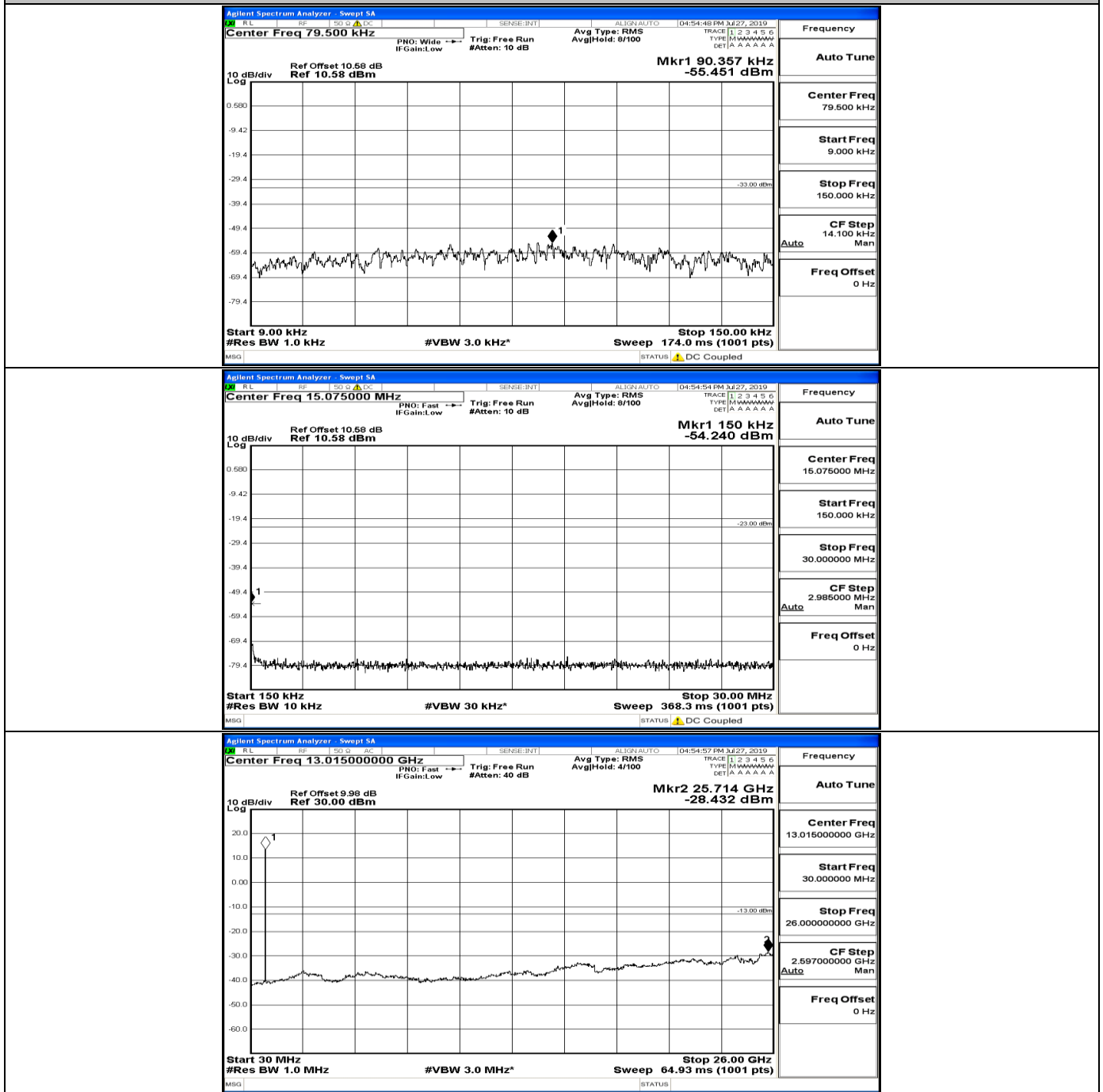


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

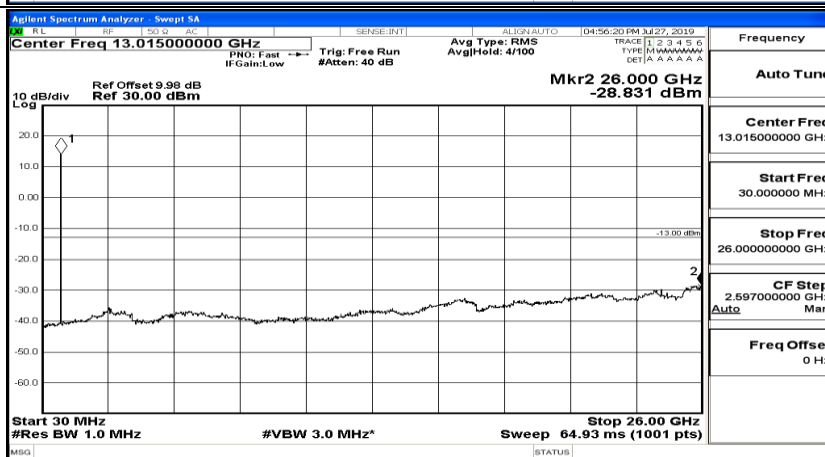
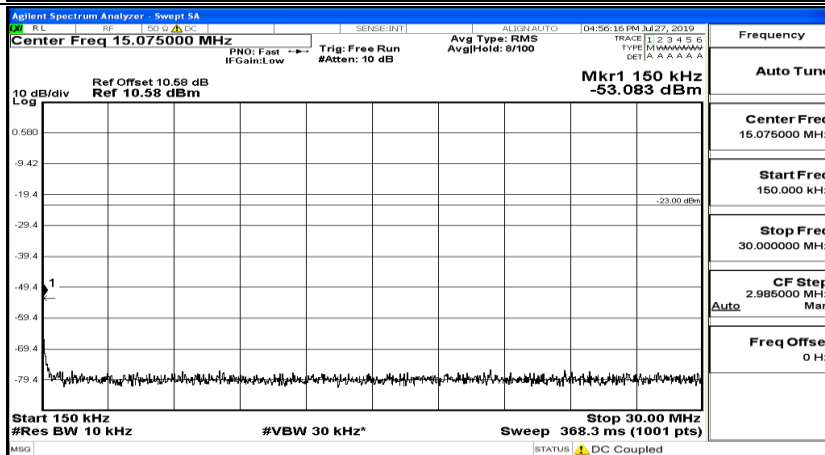
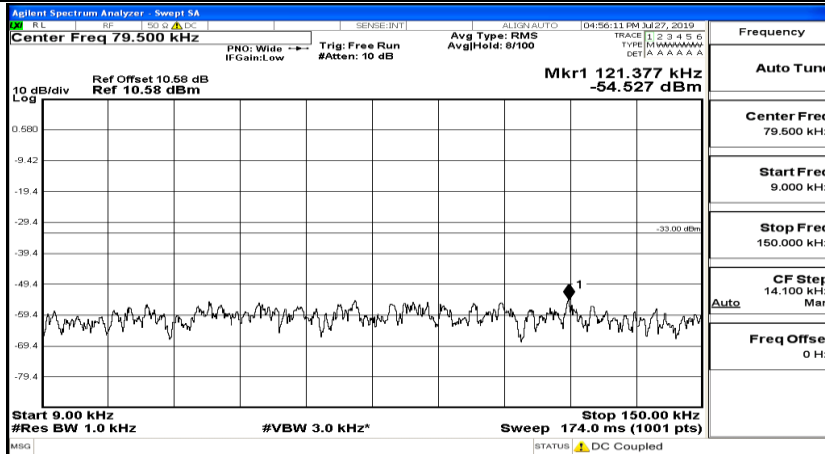


H.5 Conducted Spurious Emission

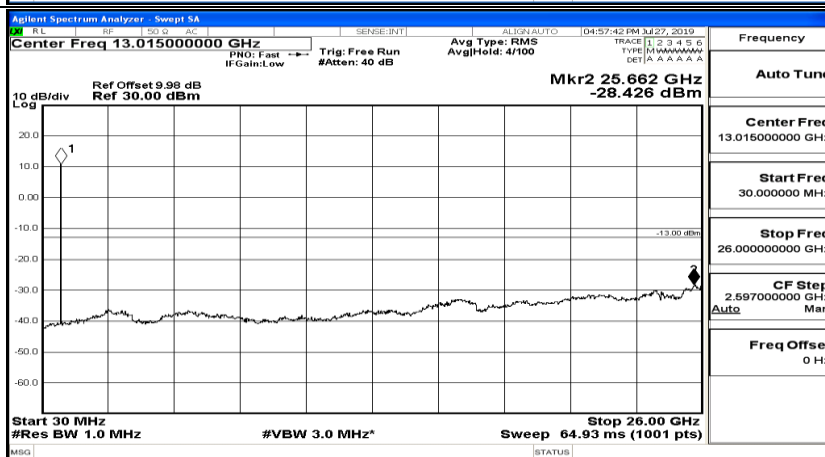
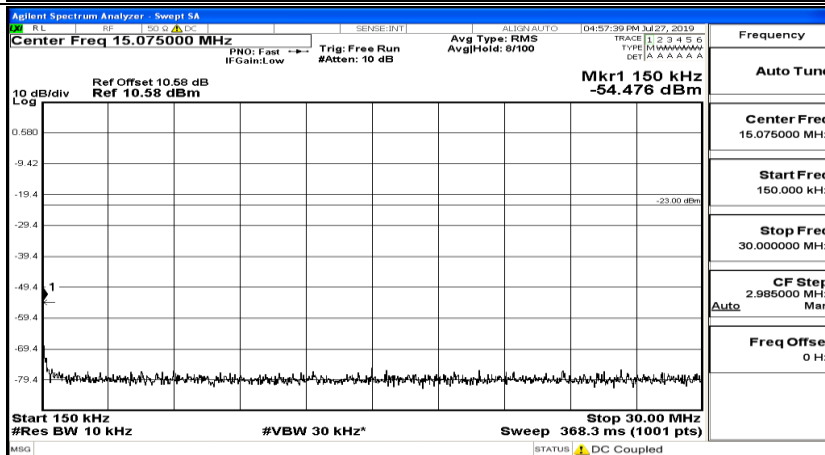
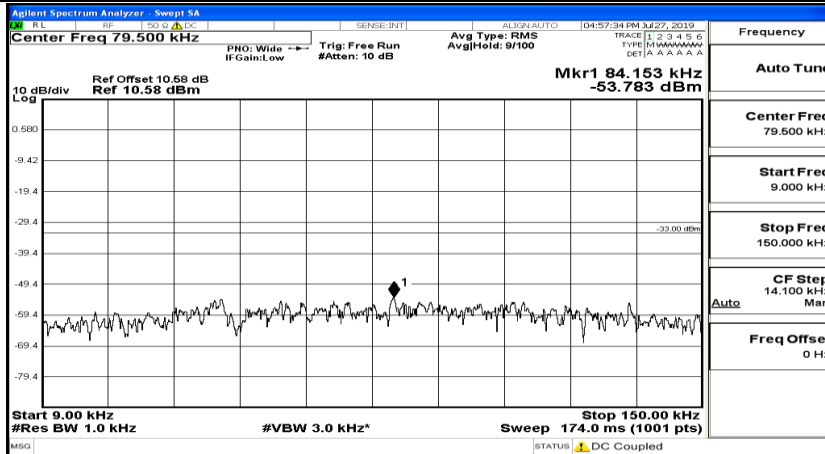
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



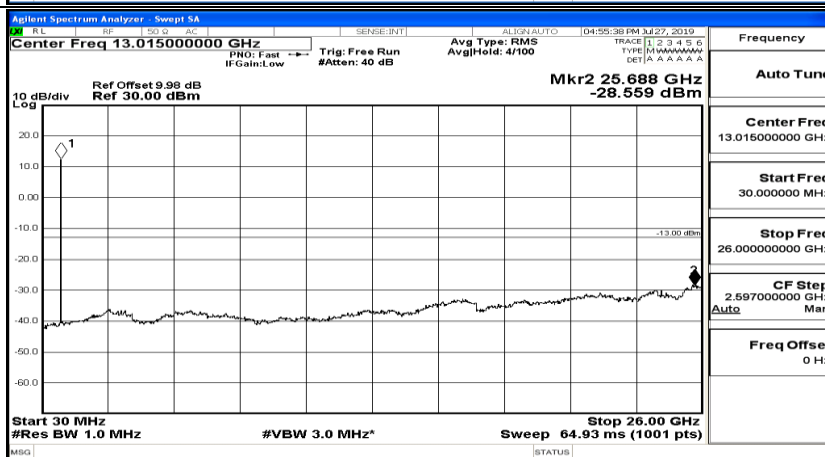
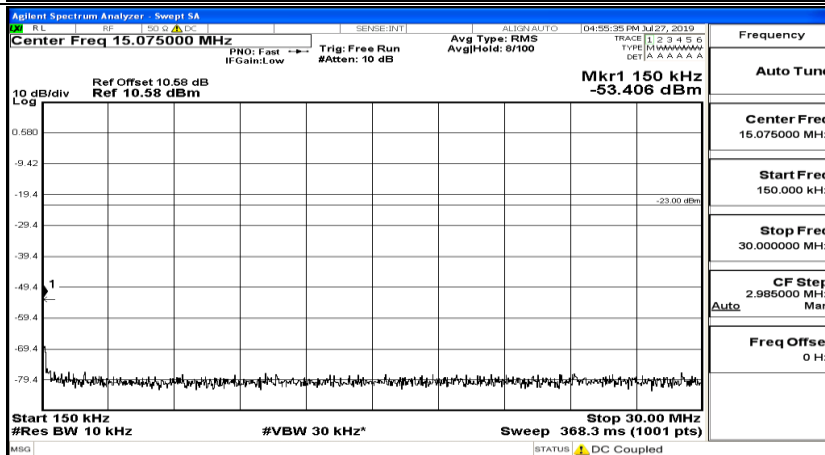
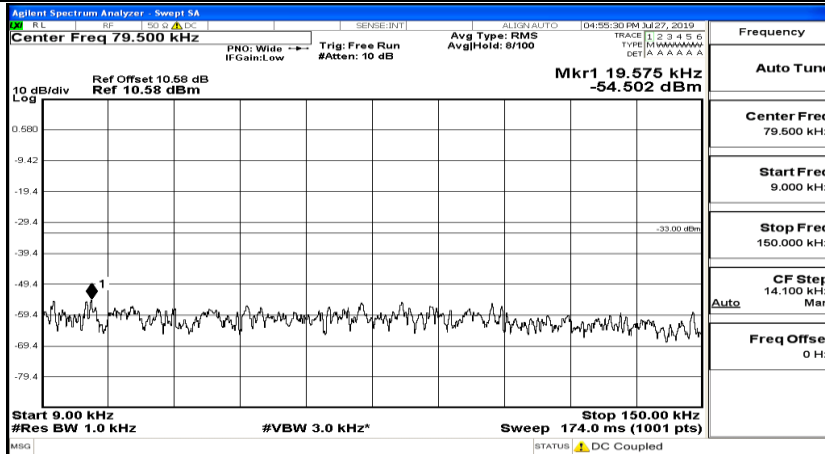
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



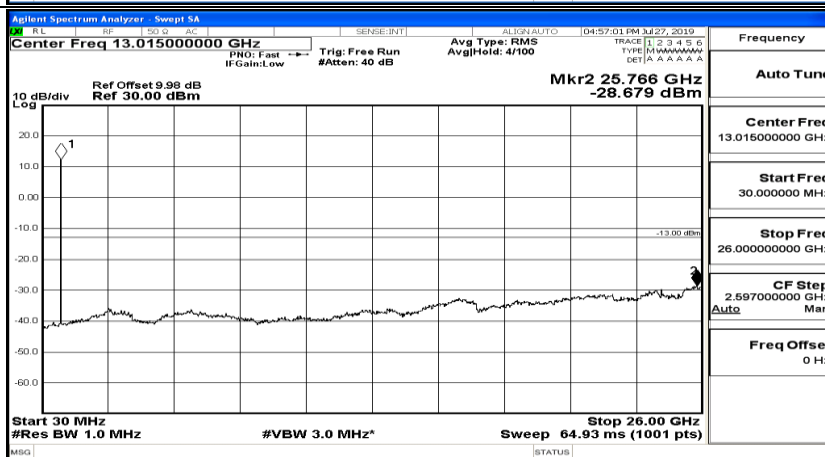
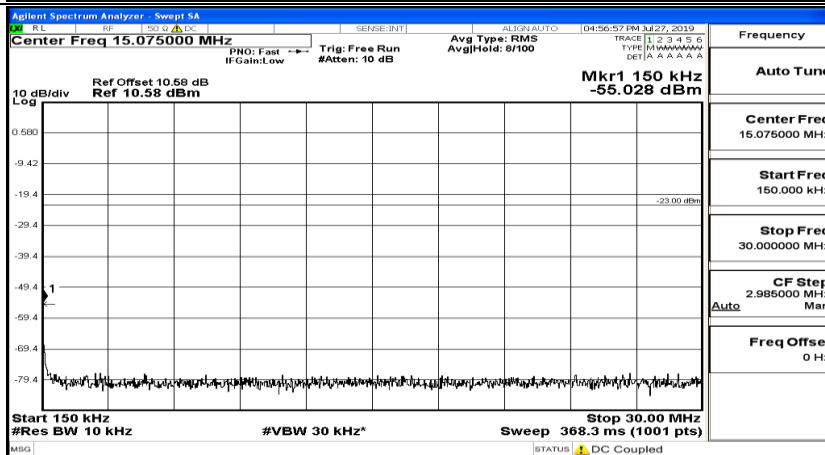
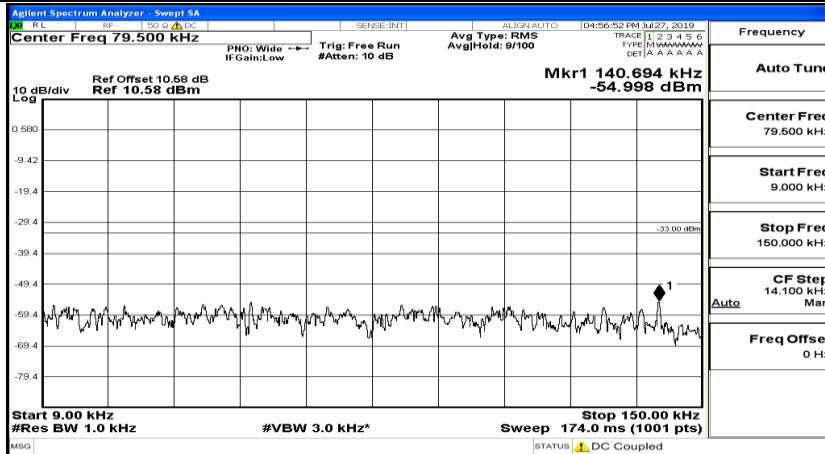
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



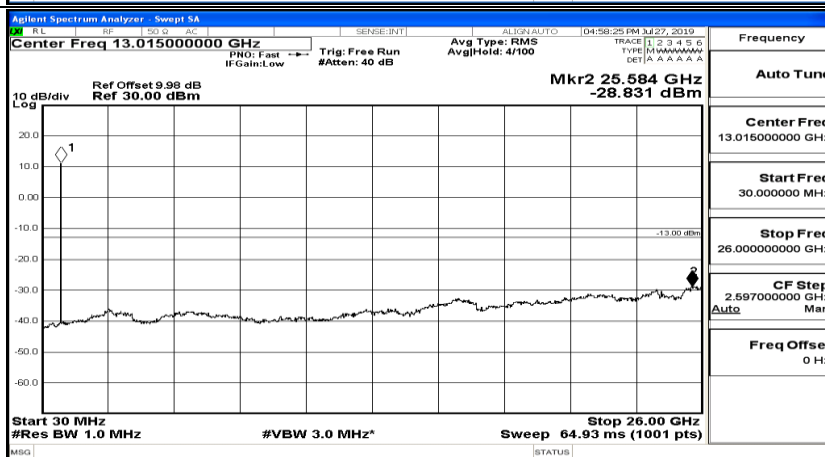
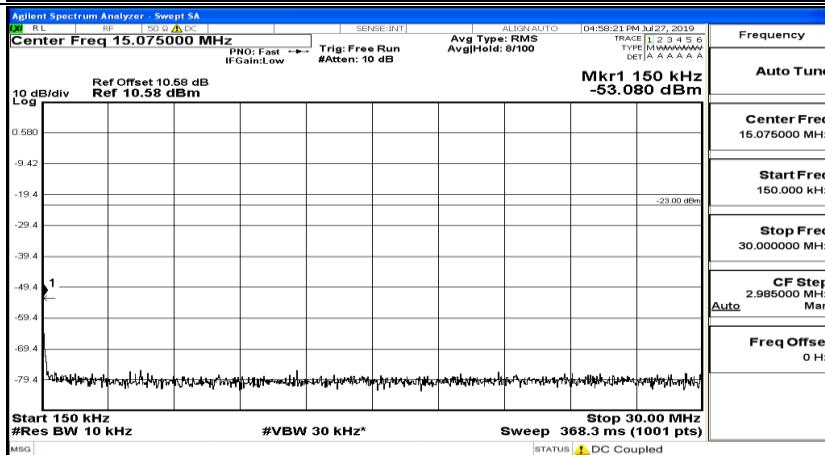
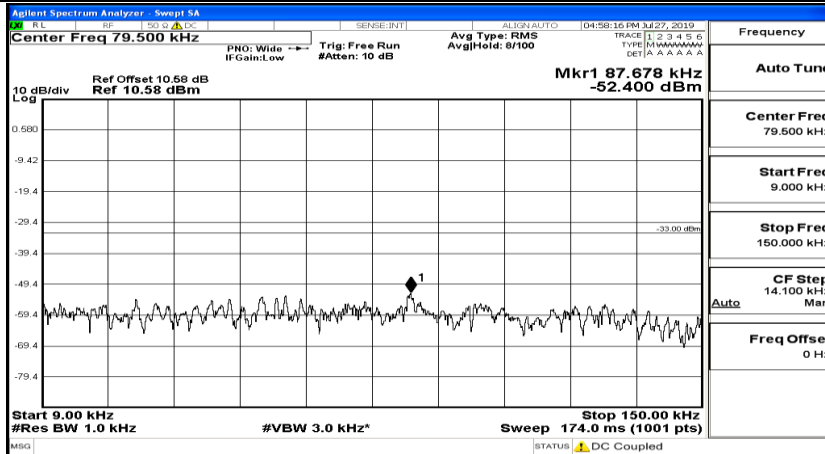
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



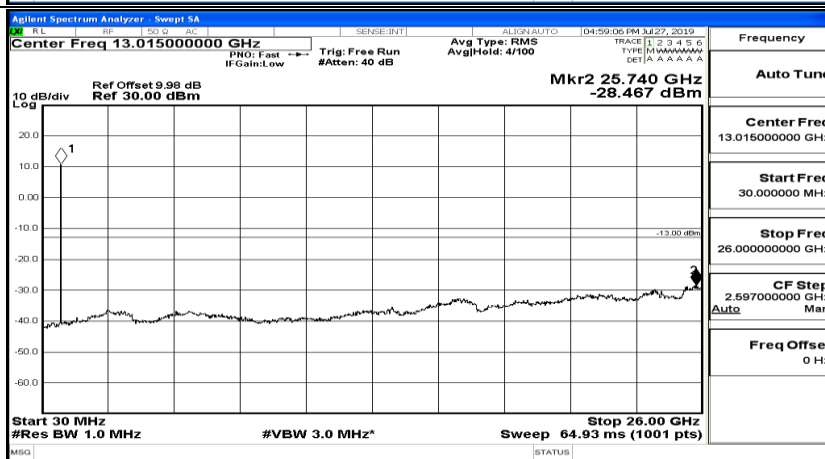
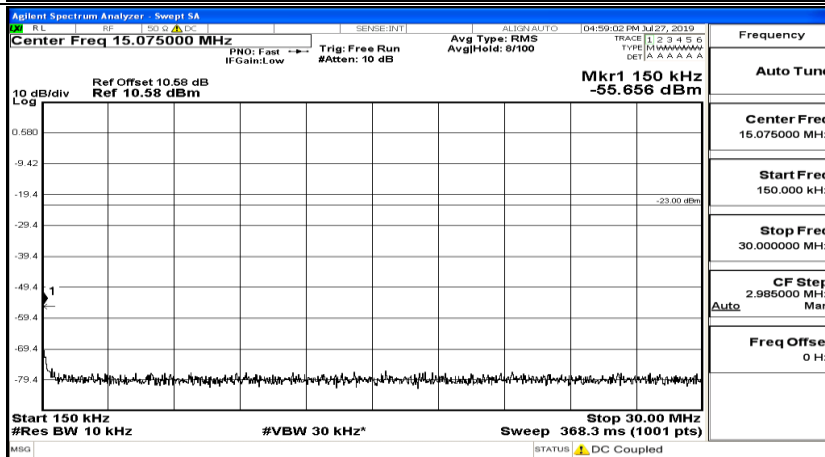
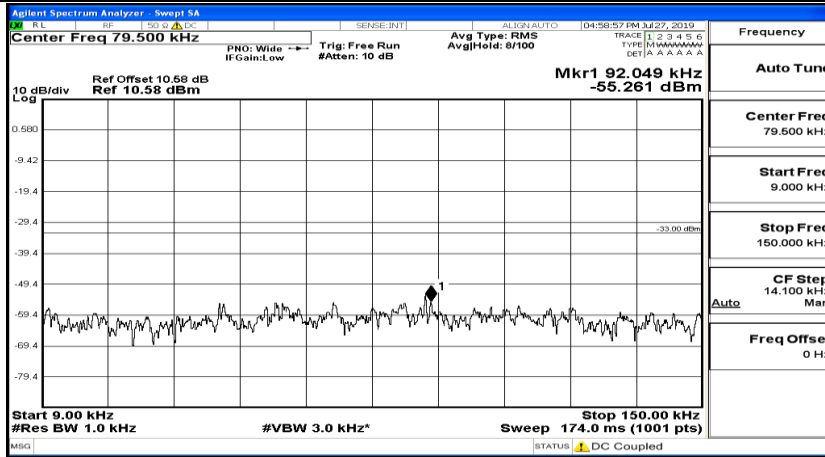
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



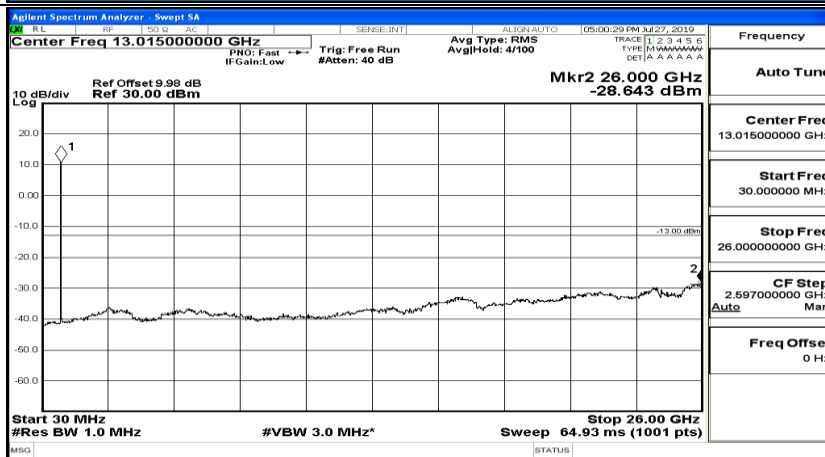
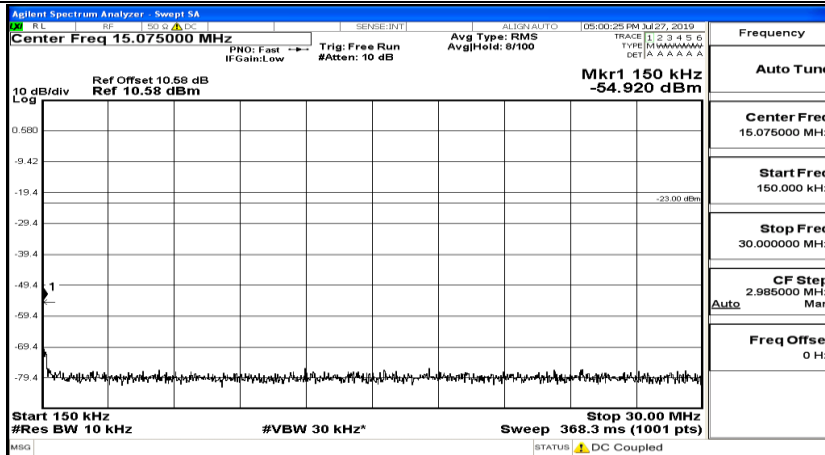
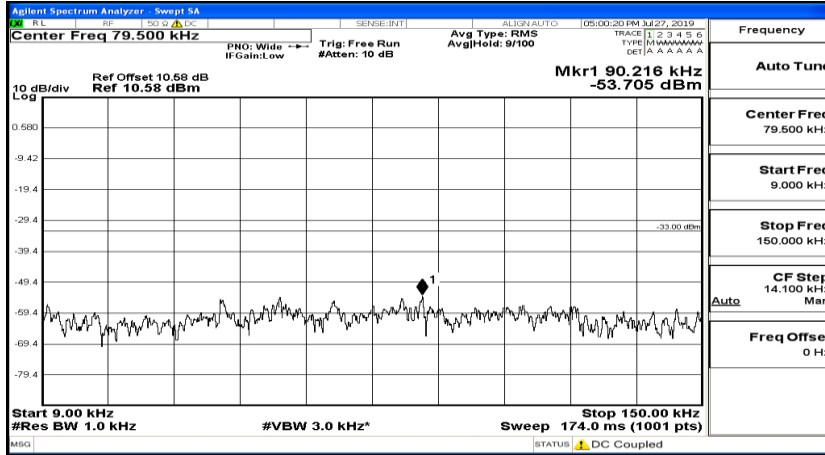
CSE Test Graph(s) (Channel Bandwidth: 5 MHz) _HCH_16QAM



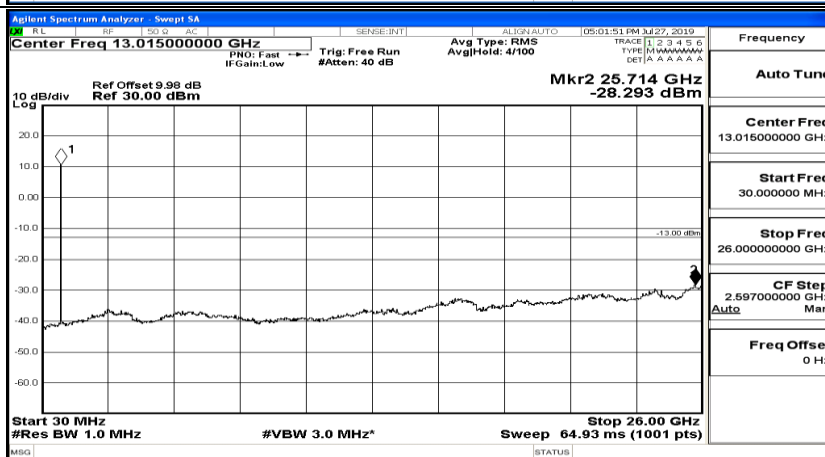
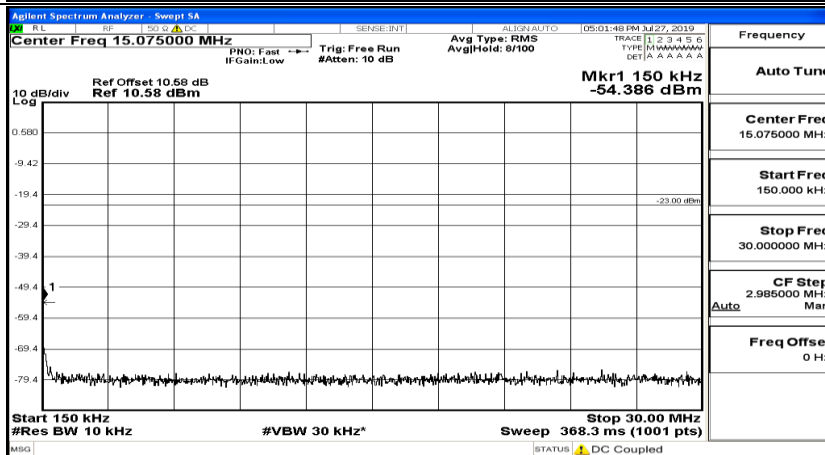
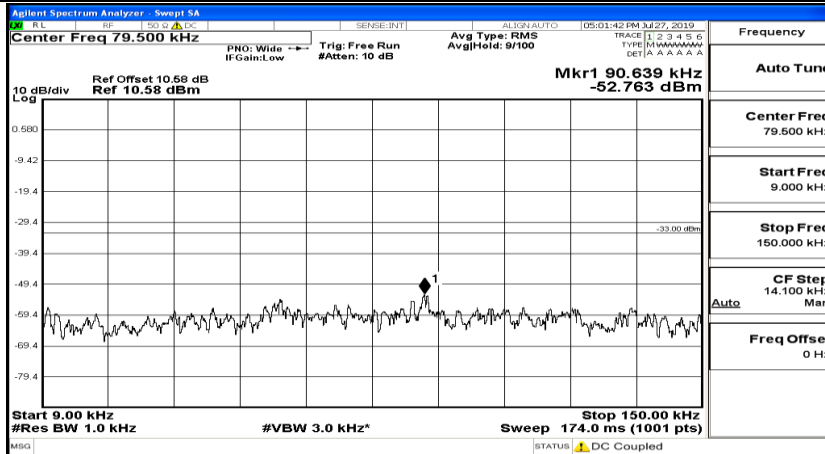
CSE Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_QPSK



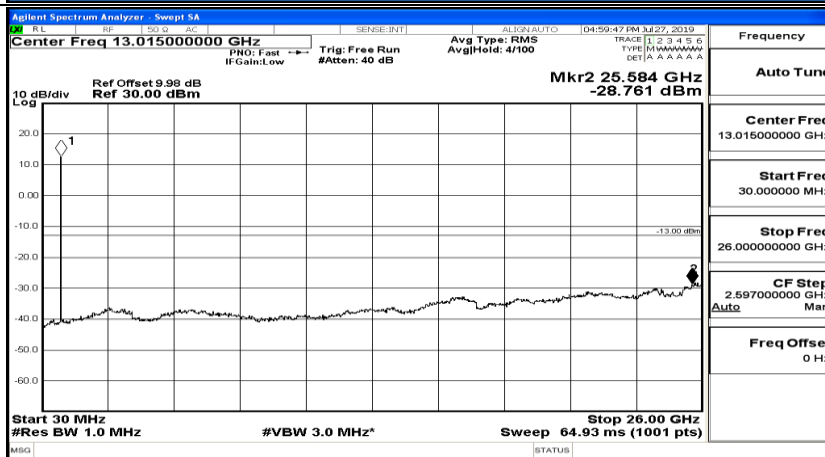
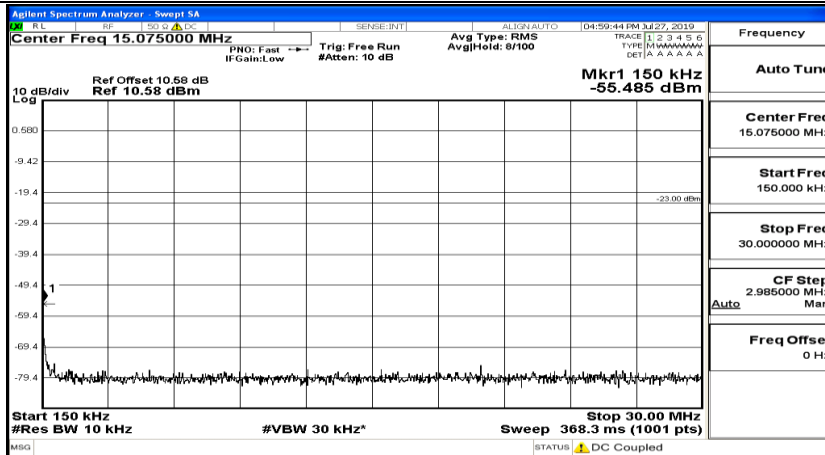
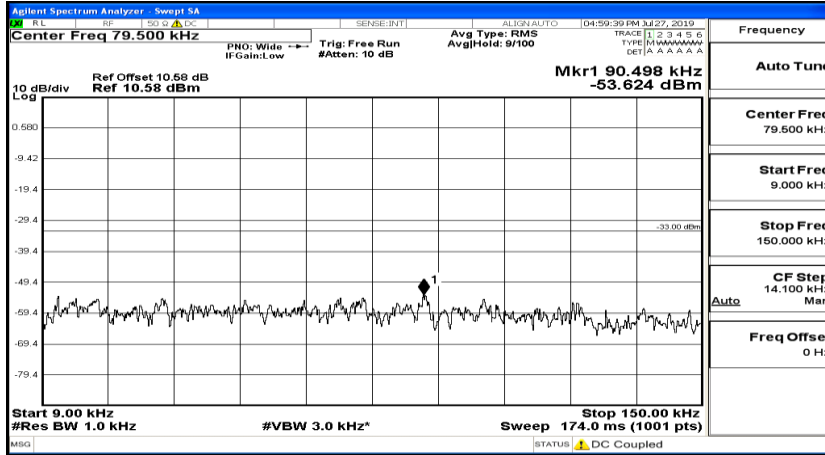
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



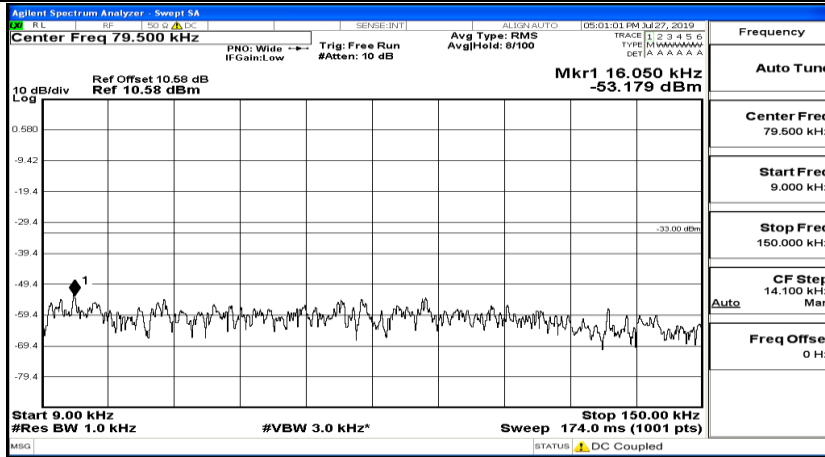
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



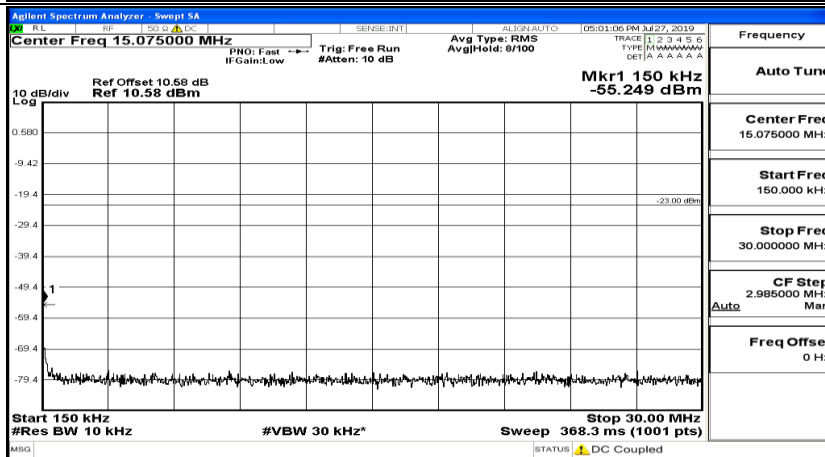
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



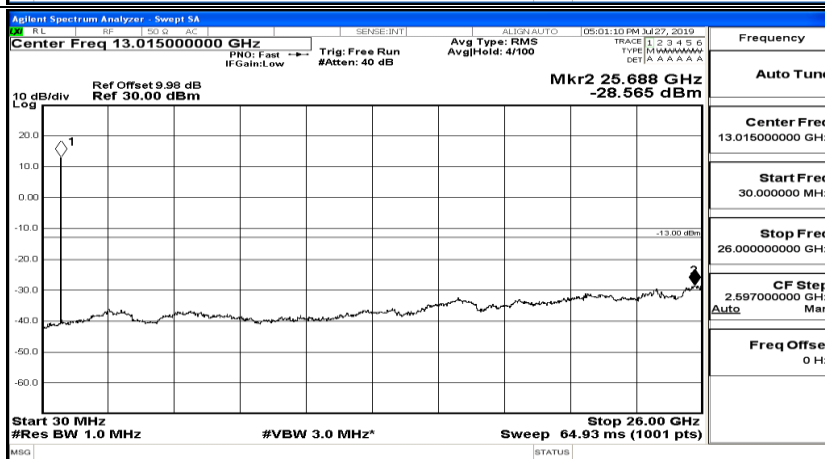
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



Frequency
Auto Tune
Center Freq 79.500 kHz
Start Freq 9.000 kHz
Stop Freq 150.000 kHz
CF Step 14.100 kHz Man
Freq Offset 0 Hz



Frequency
Auto Tune
Center Freq 15.075000 MHz
Start Freq 150.000 kHz
Stop Freq 30.000000 MHz
CF Step 2.985000 MHz Man
Freq Offset 0 Hz



Frequency
Auto Tune
Center Freq 13.015000000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.000000000 GHz
CF Step 2.597000000 GHz Man
Freq Offset 0 Hz

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

