

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: wireless HDMI sender

Trade Mark: TEVII/Diamond Multimedia

Test Model: G200TX

Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

A.1 Duty Cycle

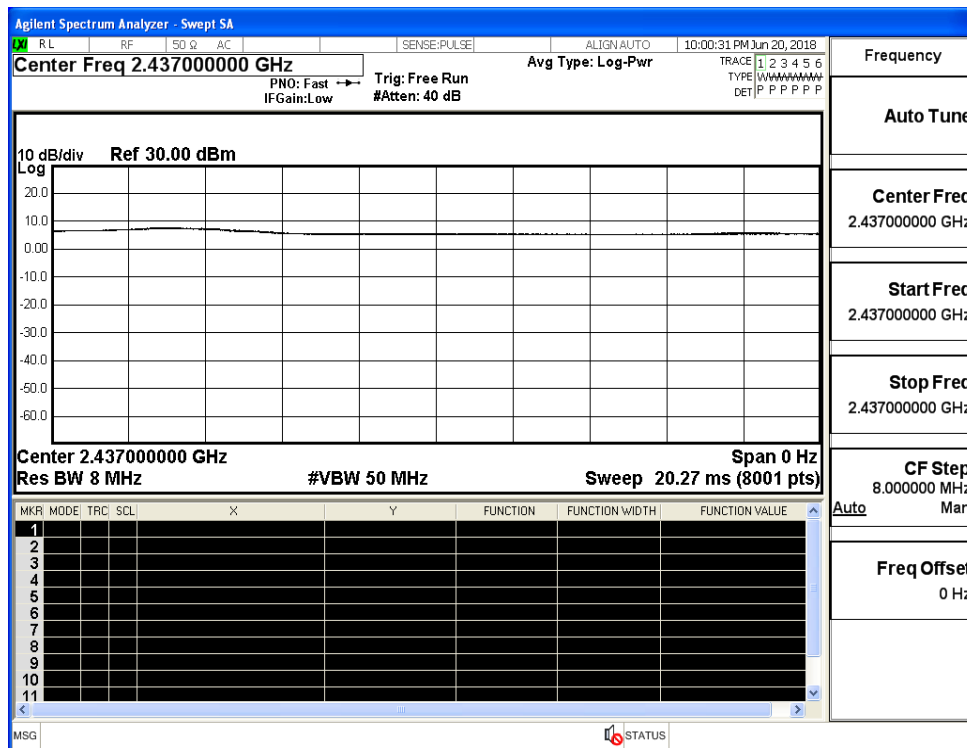
Antenna 0

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS

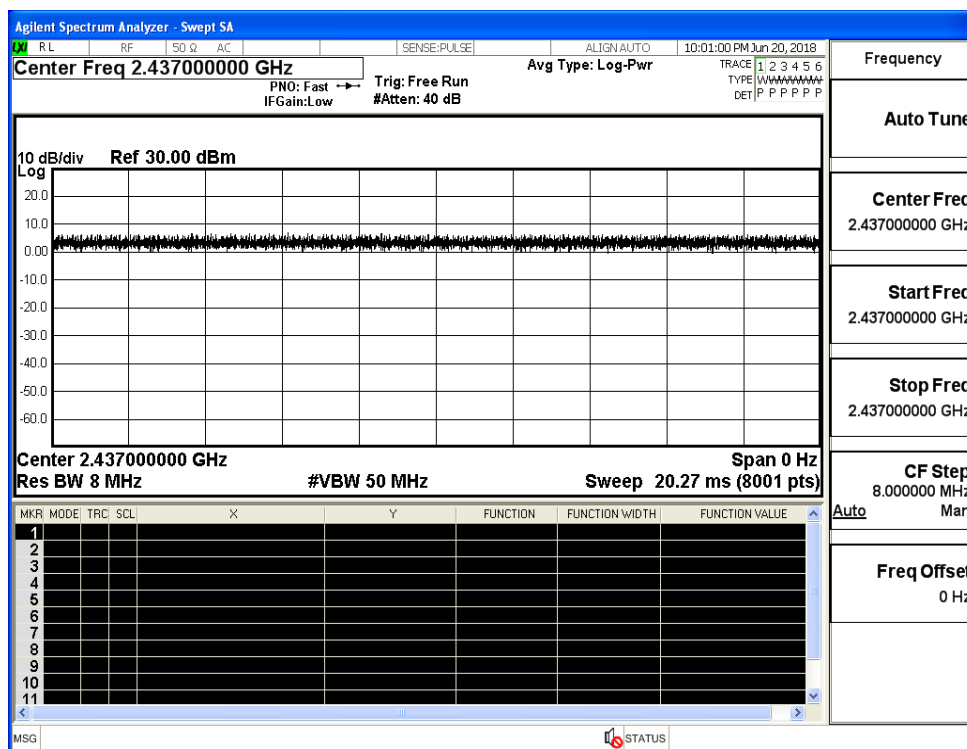
Antenna 1

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS

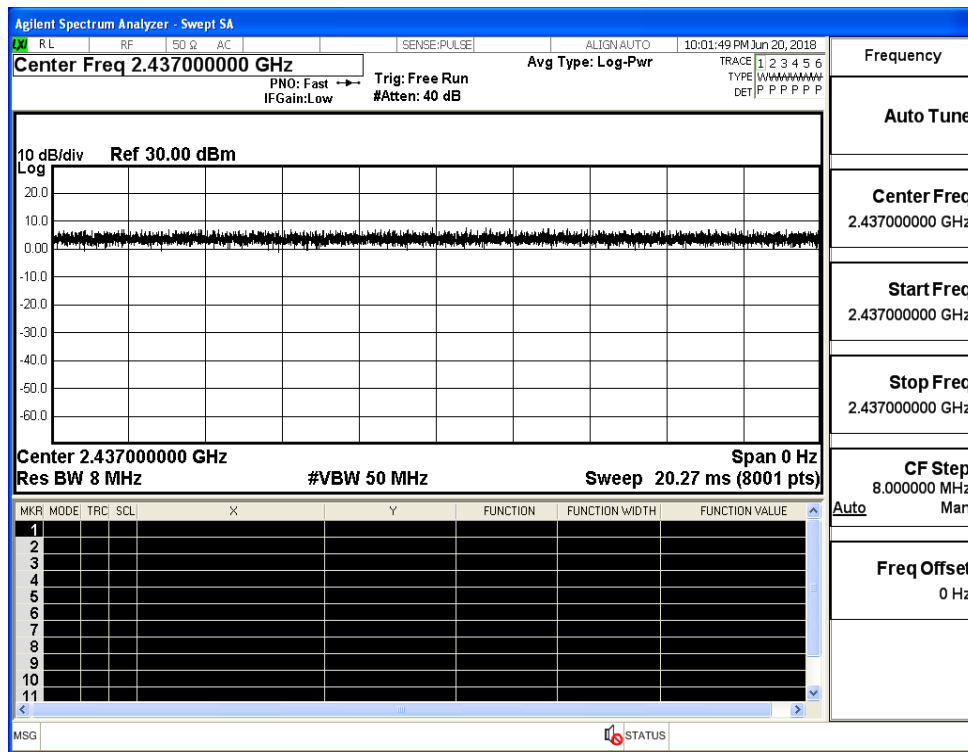
Duty Cycle_11B_2437_Ant0



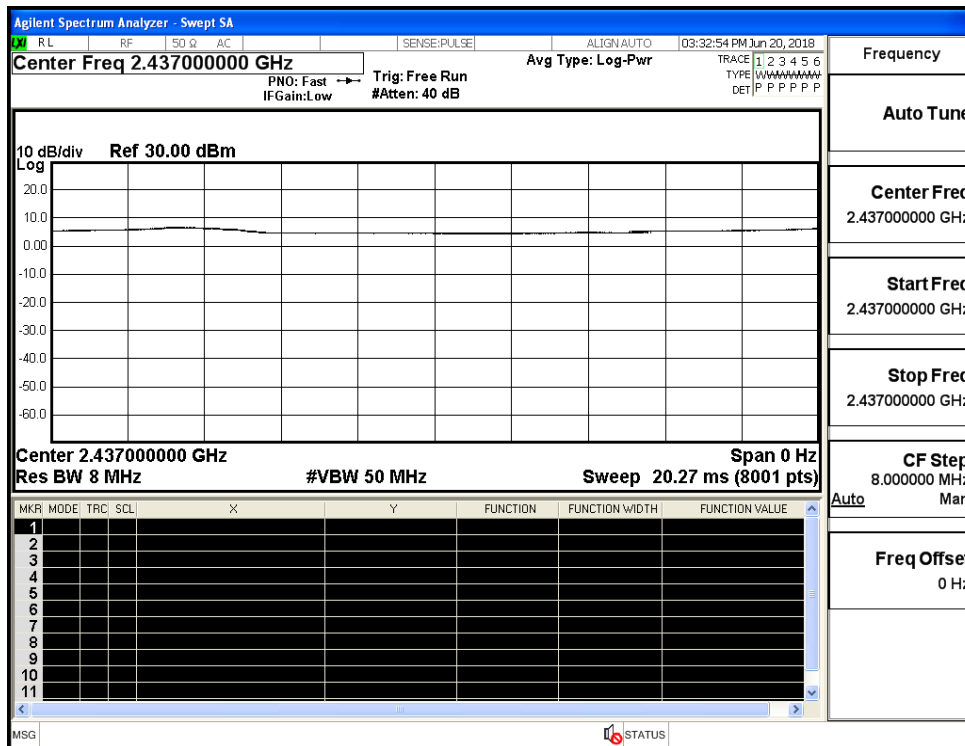
Duty Cycle_11G_2437_Ant0



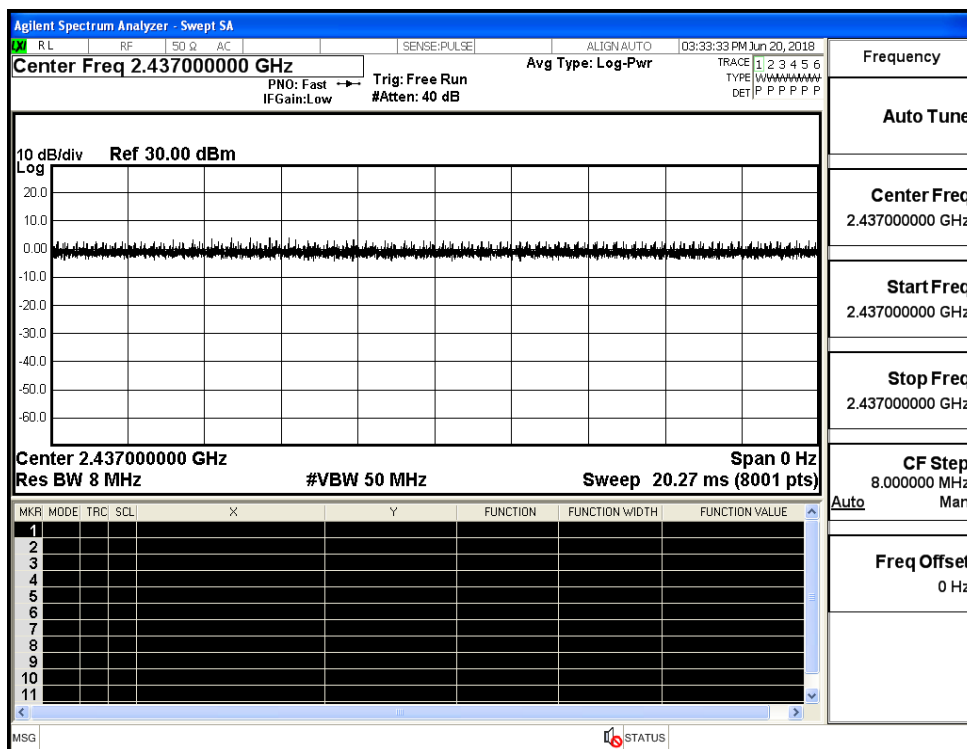
Duty Cycle_11N20SISO_2437_Ant0



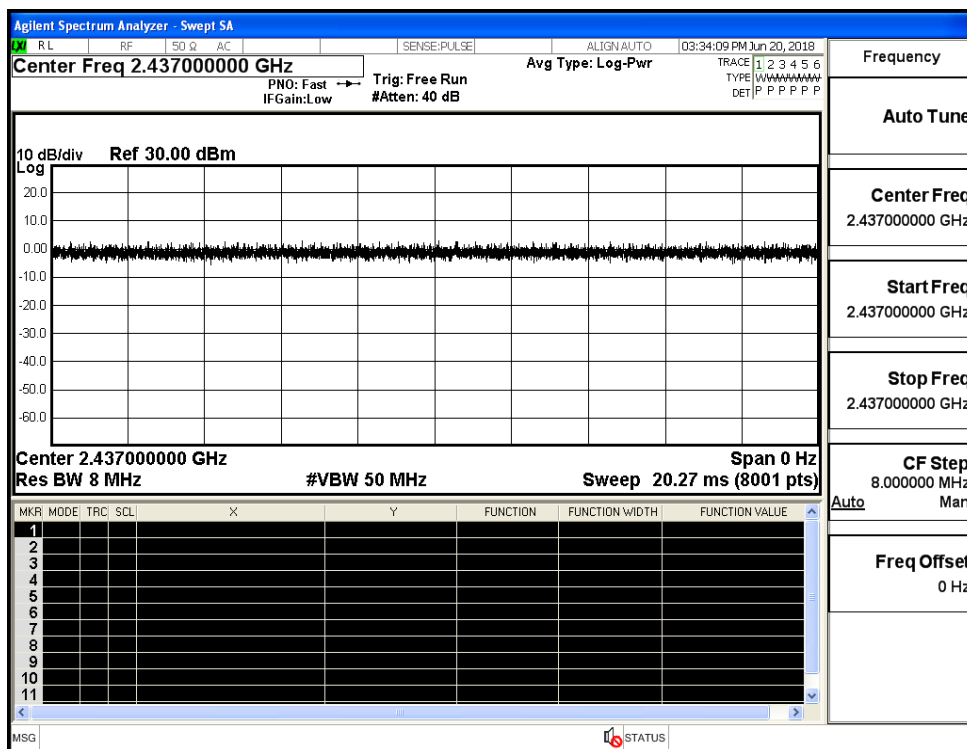
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



A.2 Maximum Conducted Peak Output Power

Antenna 0

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.52	30	PASS
	MCH	17.69	30	PASS
	HCH	17.71	30	PASS
11G	LCH	15.32	30	PASS
	MCH	15.48	30	PASS
	HCH	15.69	30	PASS
11N20SISO	LCH	15.52	30	PASS
	MCH	15.09	30	PASS
	HCH	15.31	30	PASS

Antenna 1

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.45	30	PASS
	MCH	17.32	30	PASS
	HCH	17.81	30	PASS
11G	LCH	15.26	30	PASS
	MCH	15.71	30	PASS
	HCH	15.69	30	PASS
11N20SISO	LCH	15.48	30	PASS
	MCH	15.32	30	PASS
	HCH	15.49	30	PASS

Antenna 0 + Antenna 1

Mode	Channel	Meas.Level at Antenna 0 [dBm]	Meas.Level at Antenna 1 [dBm]	Sum Antenna 0 and Antenna 1 [dBm]	Limit [dBm]	Verdict
11N20SISO	LCH	15.52	15.48	18.51	30	PASS
	MCH	15.09	15.32	18.22	30	PASS
	HCH	15.31	15.49	18.41	30	PASS

A.3 Maximum Power Spectral Density

Antenna 0

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-5.842	8	PASS
	MCH	-6.523	8	PASS
	HCH	-6.773	8	PASS
11G	LCH	-11.215	8	PASS
	MCH	-12.393	8	PASS
	HCH	-13.507	8	PASS
11N20SISO	LCH	-11.585	8	PASS
	MCH	-11.273	8	PASS
	HCH	-12.451	8	PASS

Antenna 1

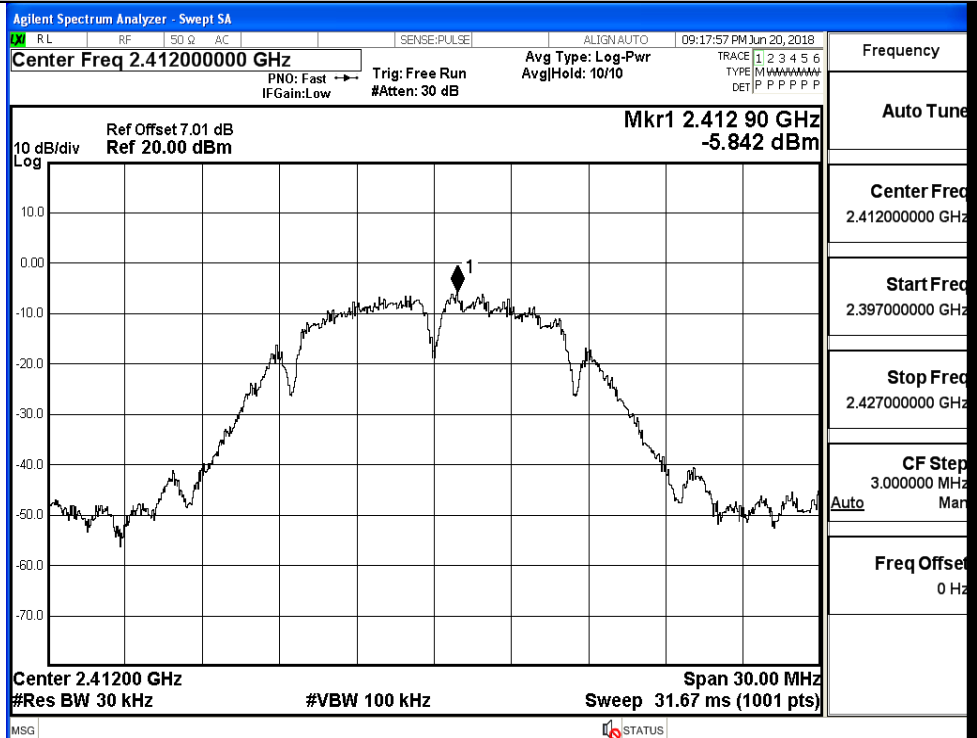
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-6.245	8	PASS
	MCH	-6.542	8	PASS
	HCH	-7.154	8	PASS
11G	LCH	-12.587	8	PASS
	MCH	-13.927	8	PASS
	HCH	-13.960	8	PASS
11N20SISO	LCH	-12.682	8	PASS
	MCH	-14.094	8	PASS
	HCH	-14.099	8	PASS

Antenna 0 + Antenna 1

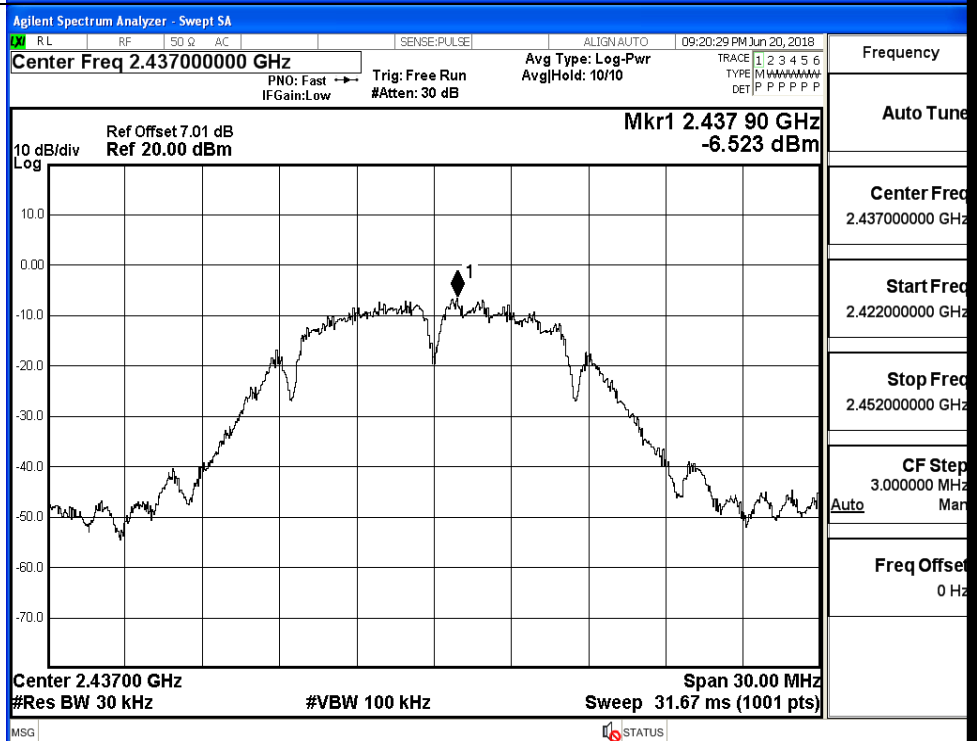
Mode	Channel	Meas.Level at Antenna 0 [dBm/30KHz]	Meas.Level at Antenna 1 [dBm/30KHz]	Sum Antenna 0 and Antenna 1 [dBm/30KHz]	Limit [dBm/30KHz]	Verdict
11N20SISO	LCH	-11.585	-12.682	-9.089	8	PASS
	MCH	-11.273	-14.094	-9.448	8	PASS
	HCH	-12.451	-14.099	-10.187	8	PASS

Test Graphs_Ant0

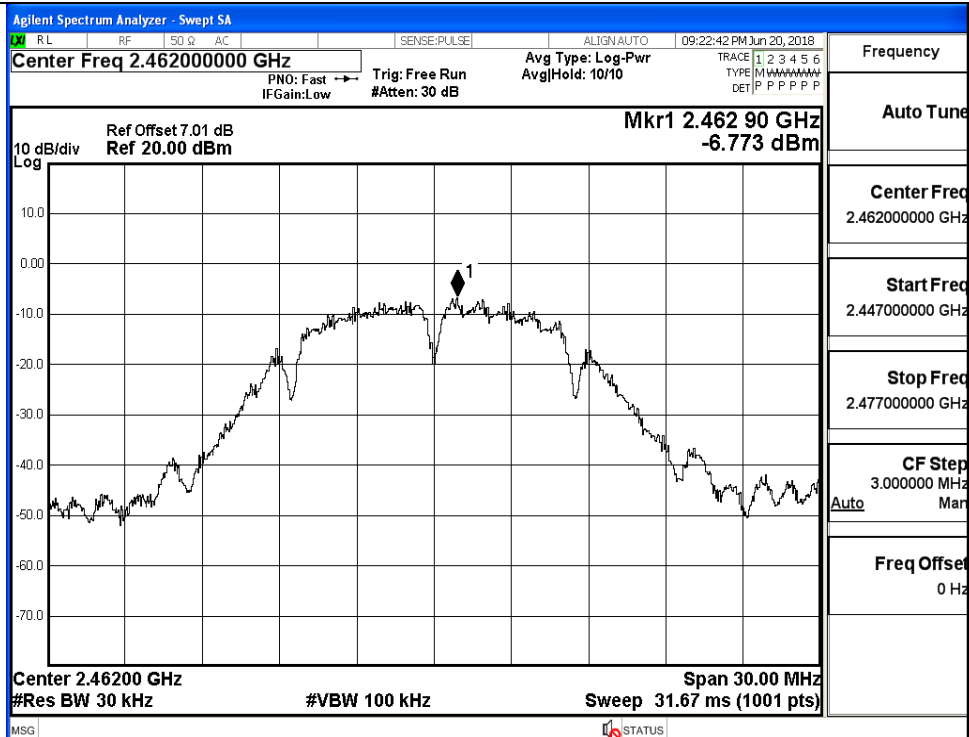
11B/LCH



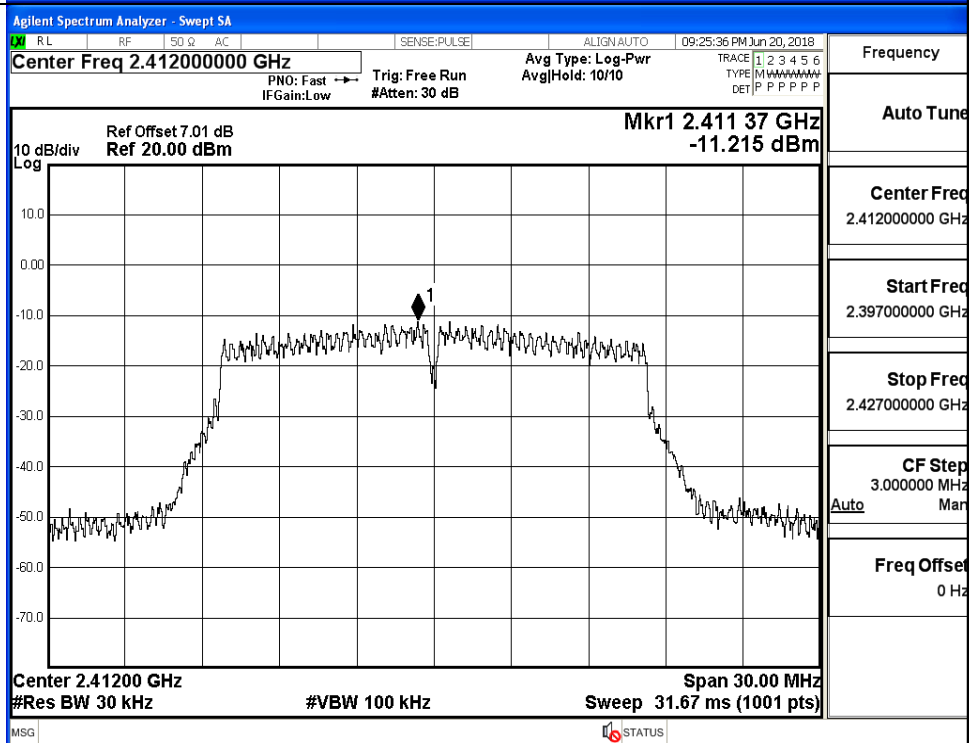
11B/MCH



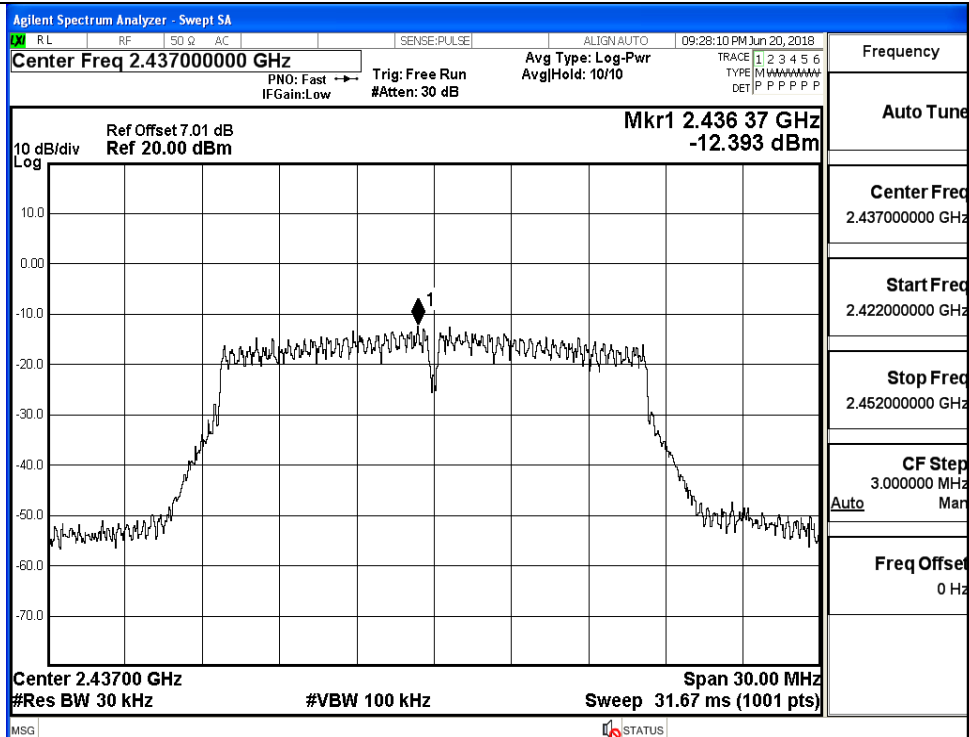
11B/HCH



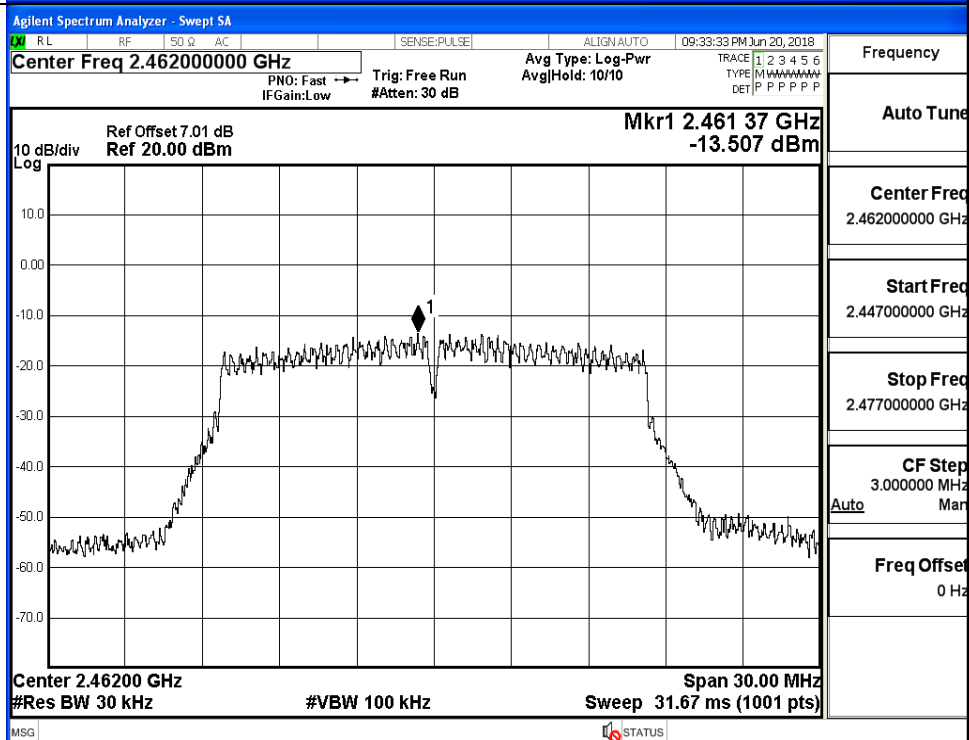
11G/LCH



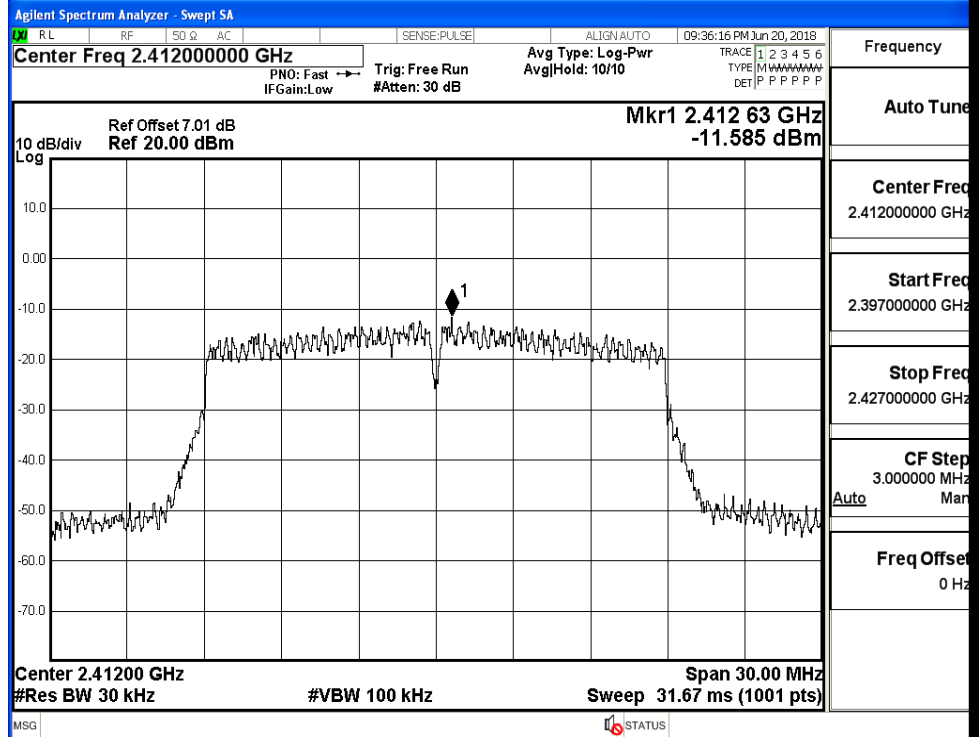
11G/MCH



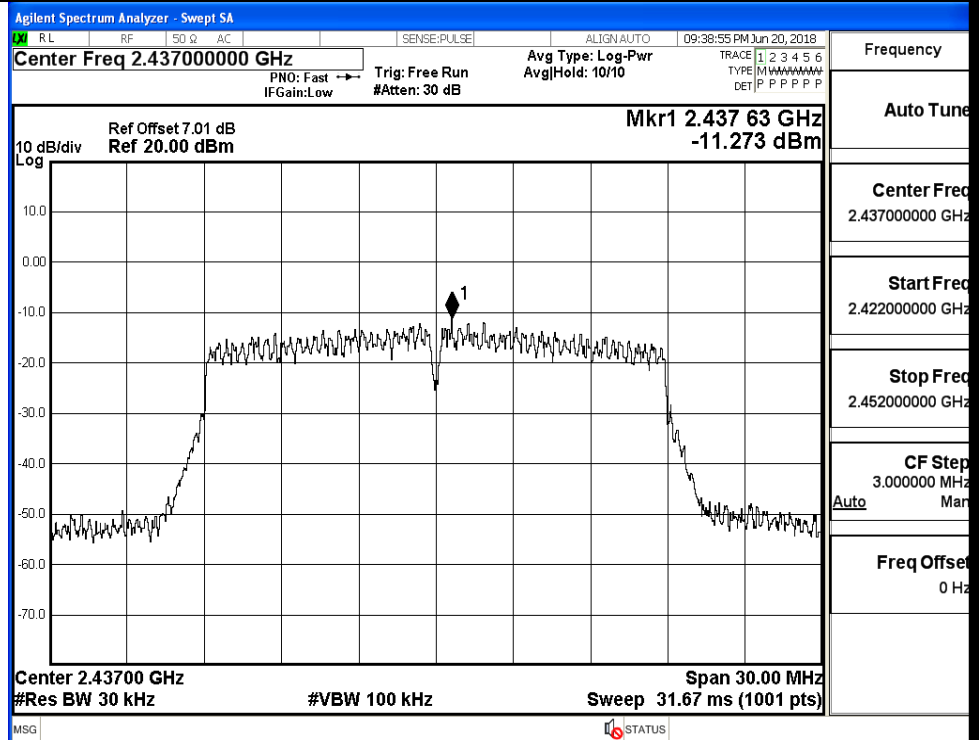
11G/HCH



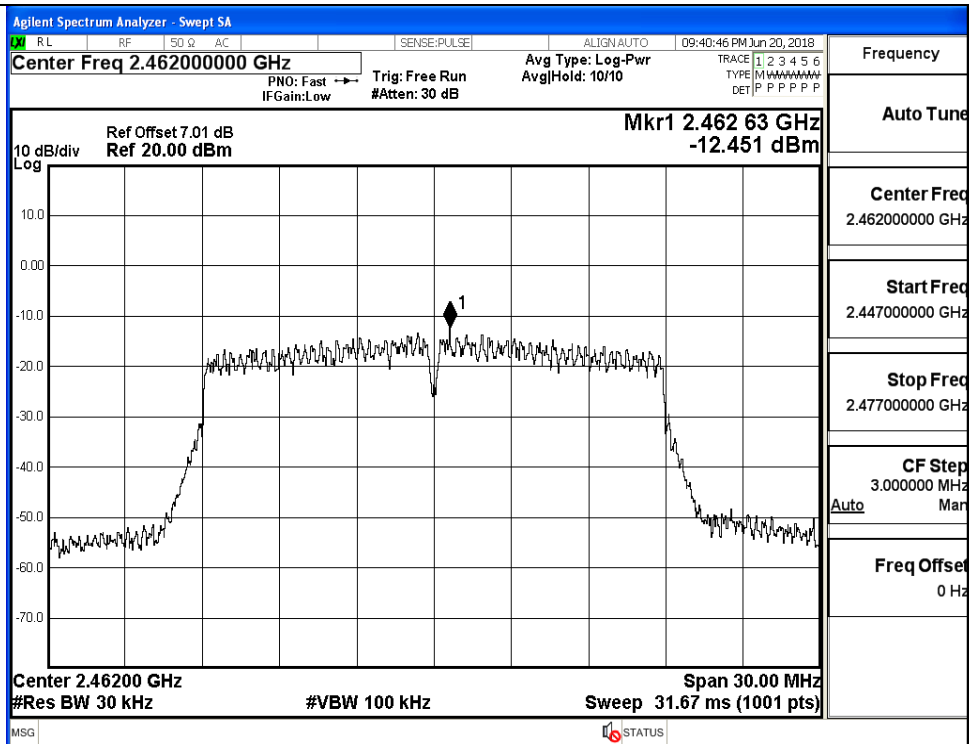
11N20SISO/LCH



11N20SISO/MCH

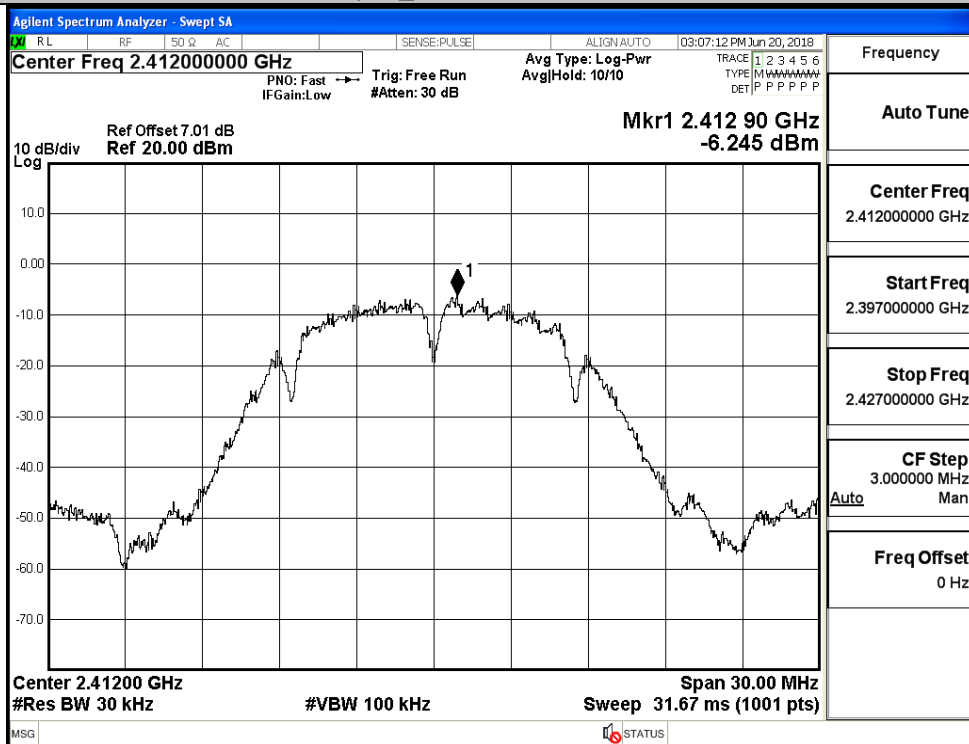


11N20SISO/HCH

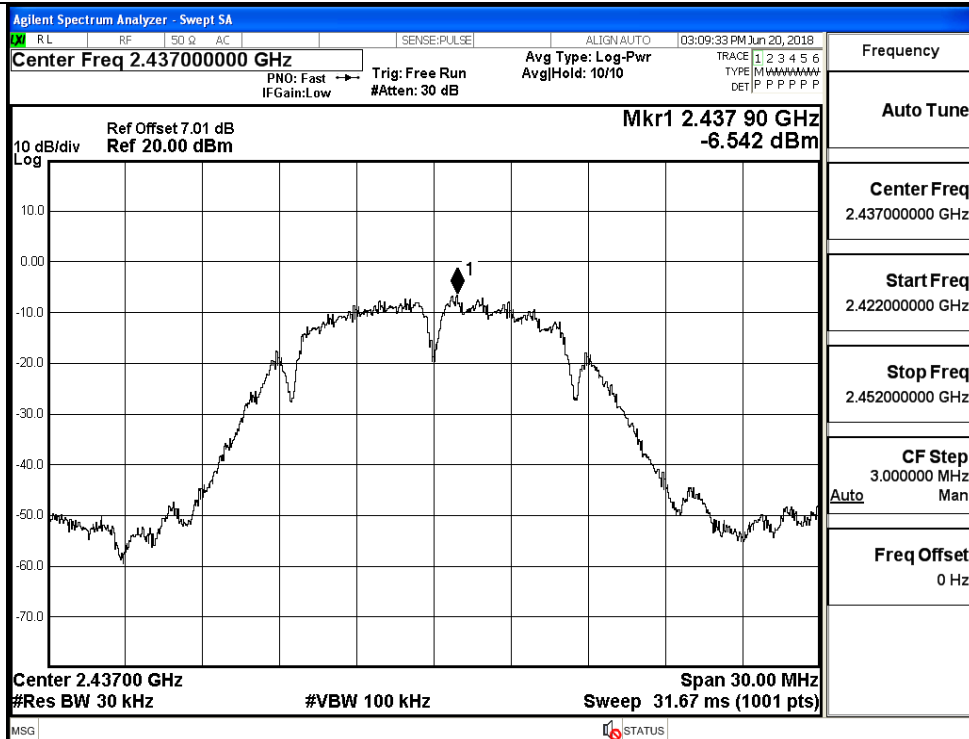


Test Graphs_Ant1

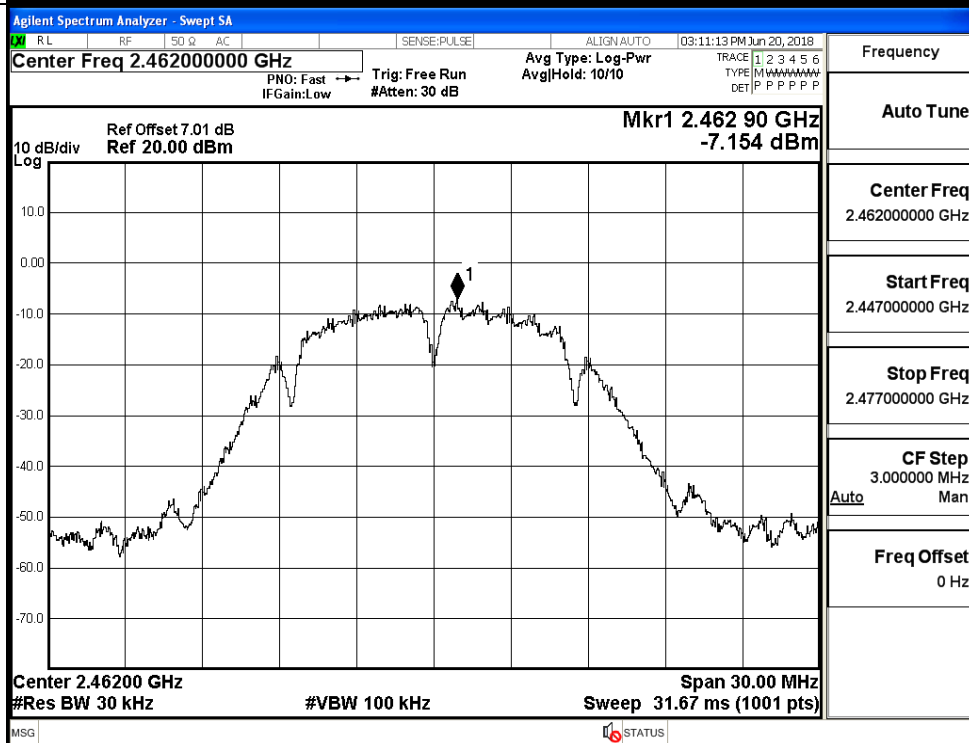
11B/LCH



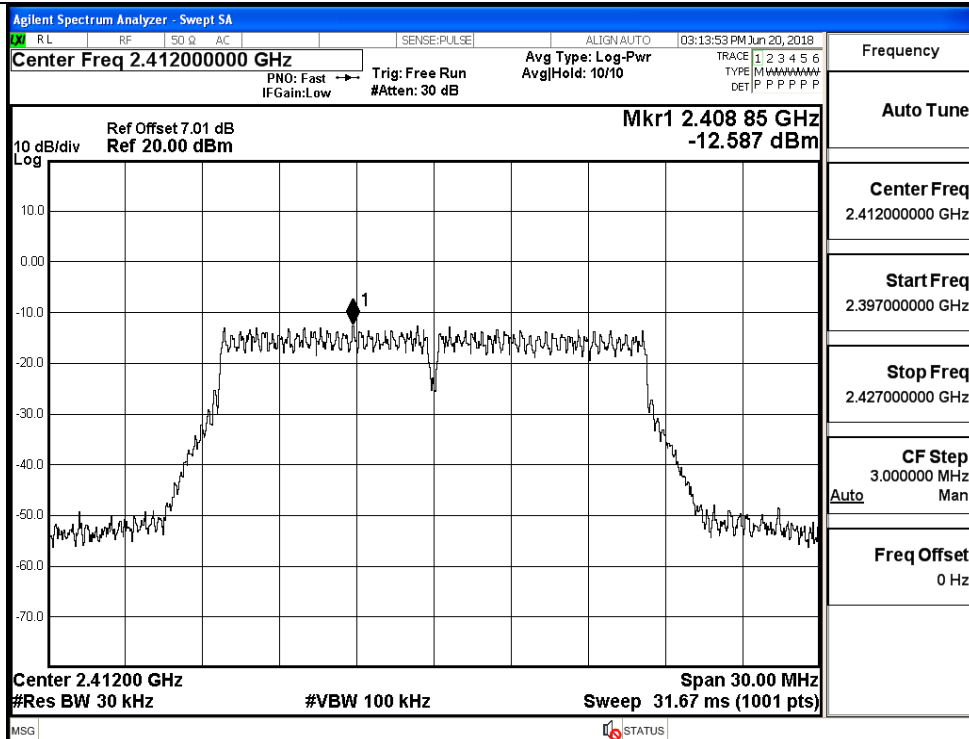
11B/MCH



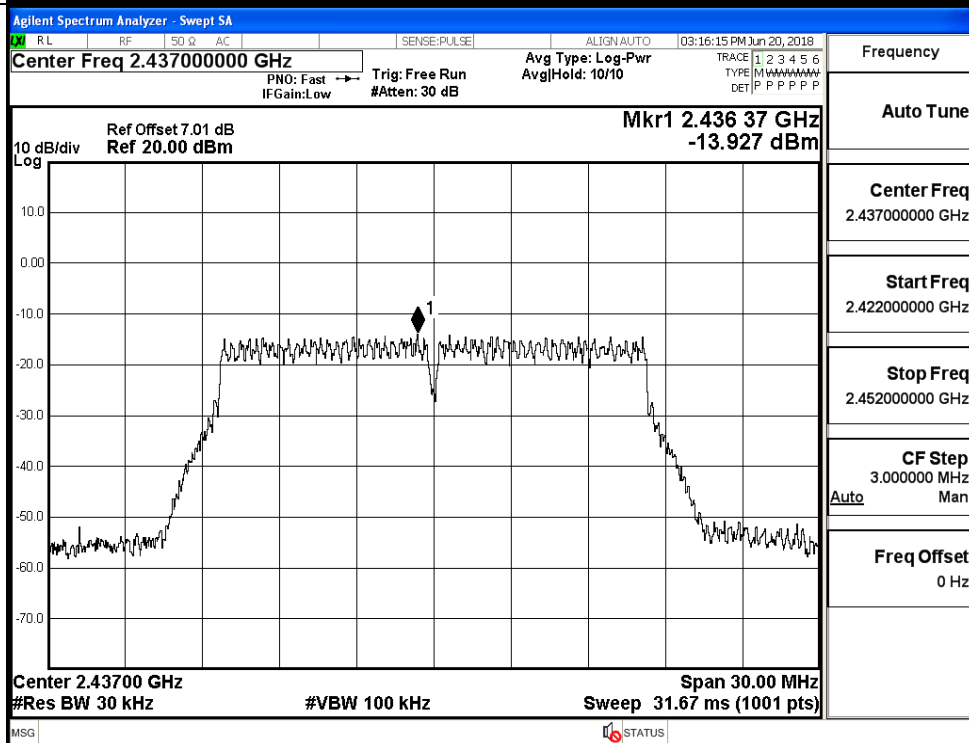
11B/HCH



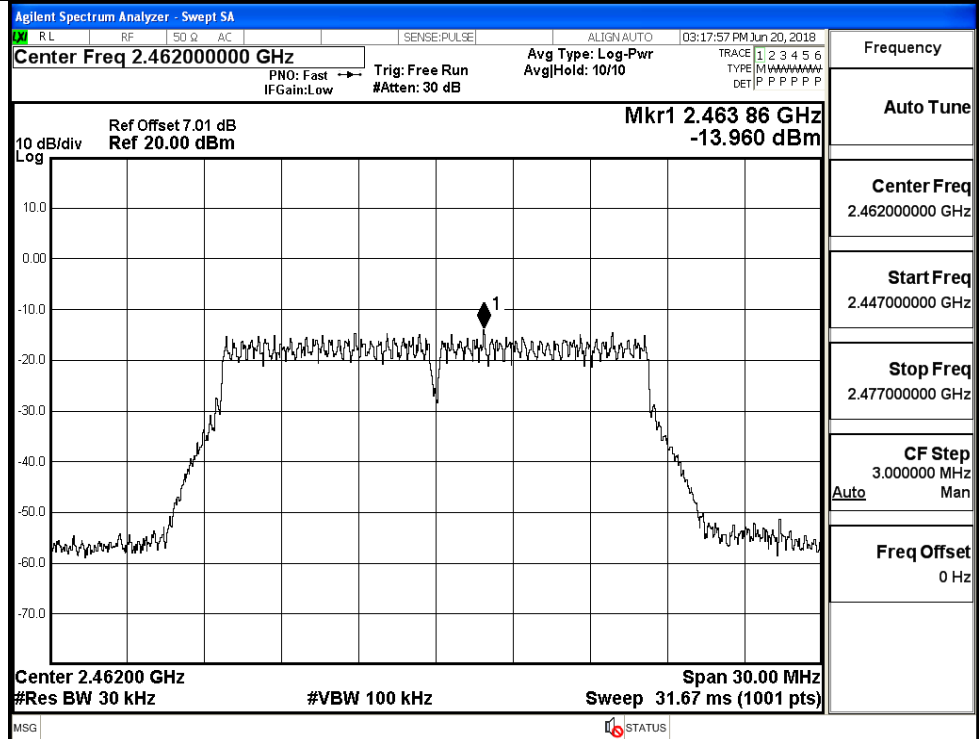
11G/LCH



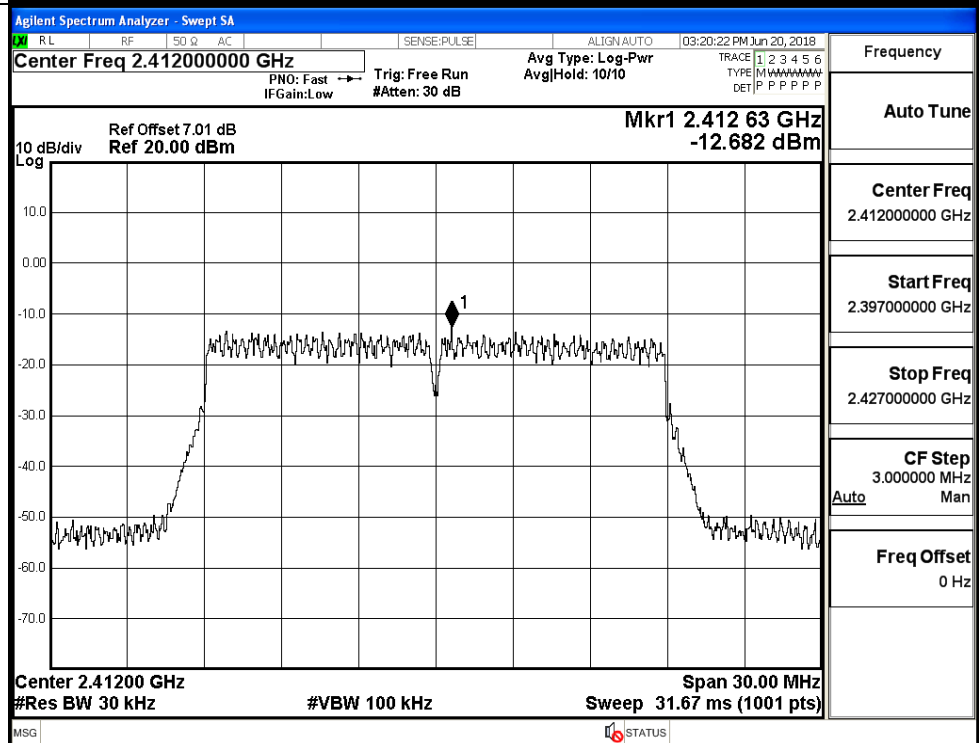
11G/MCH



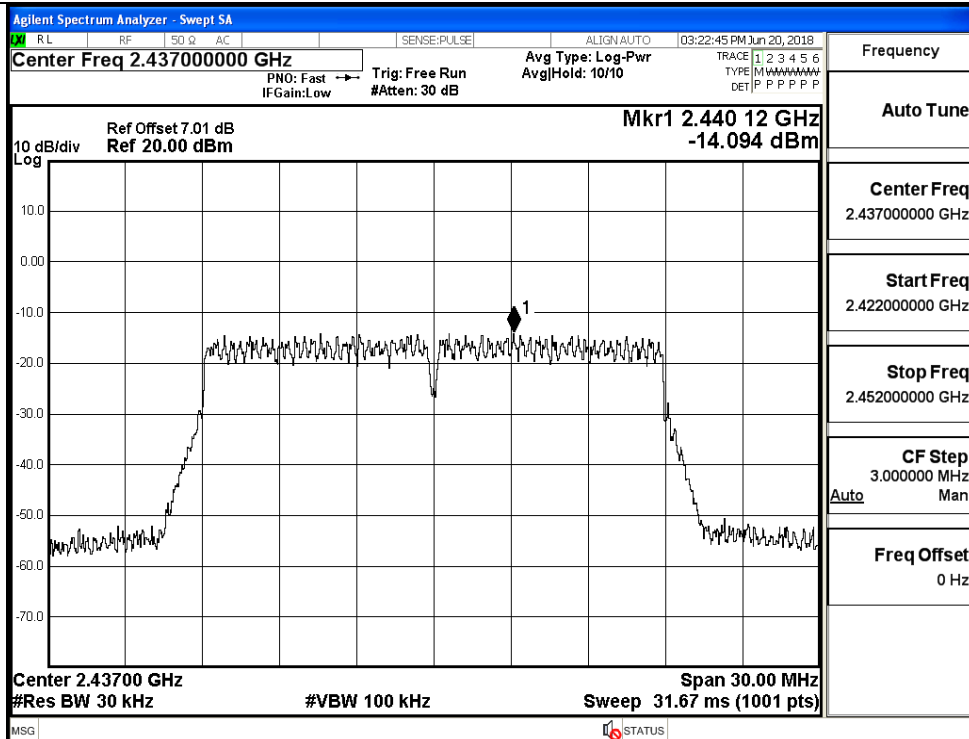
11G/HCH



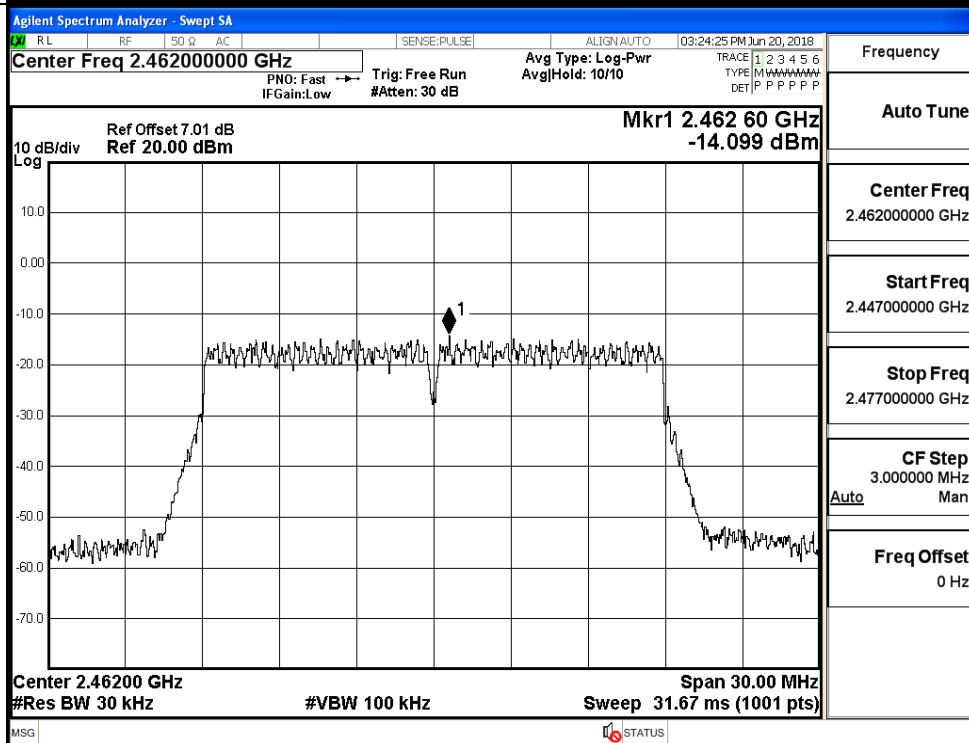
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH



A.4 6dB Bandwidth

Antenna 0

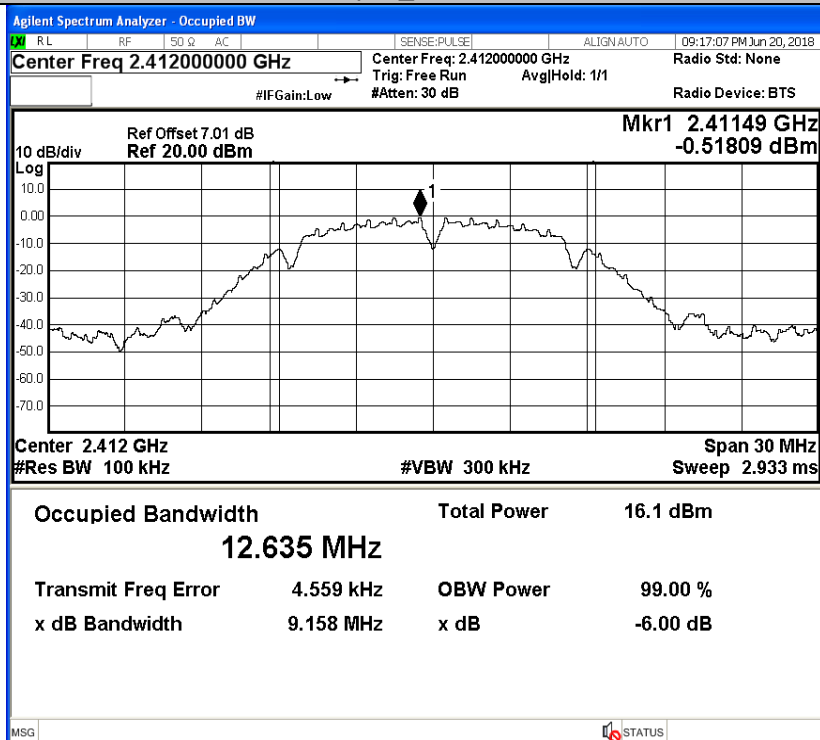
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.158	≥ 0.5	PASS
	MCH	9.161	≥ 0.5	PASS
	HCH	9.167	≥ 0.5	PASS
11G	LCH	16.400	≥ 0.5	PASS
	MCH	16.400	≥ 0.5	PASS
	HCH	16.430	≥ 0.5	PASS
11N20SISO	LCH	17.620	≥ 0.5	PASS
	MCH	17.640	≥ 0.5	PASS
	HCH	17.610	≥ 0.5	PASS

Antenna 1

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.153	≥ 0.5	PASS
	MCH	9.154	≥ 0.5	PASS
	HCH	9.153	≥ 0.5	PASS
11G	LCH	16.610	≥ 0.5	PASS
	MCH	16.620	≥ 0.5	PASS
	HCH	16.620	≥ 0.5	PASS
11N20SISO	LCH	17.830	≥ 0.5	PASS
	MCH	17.790	≥ 0.5	PASS
	HCH	17.830	≥ 0.5	PASS

Test Graphs_Ant0

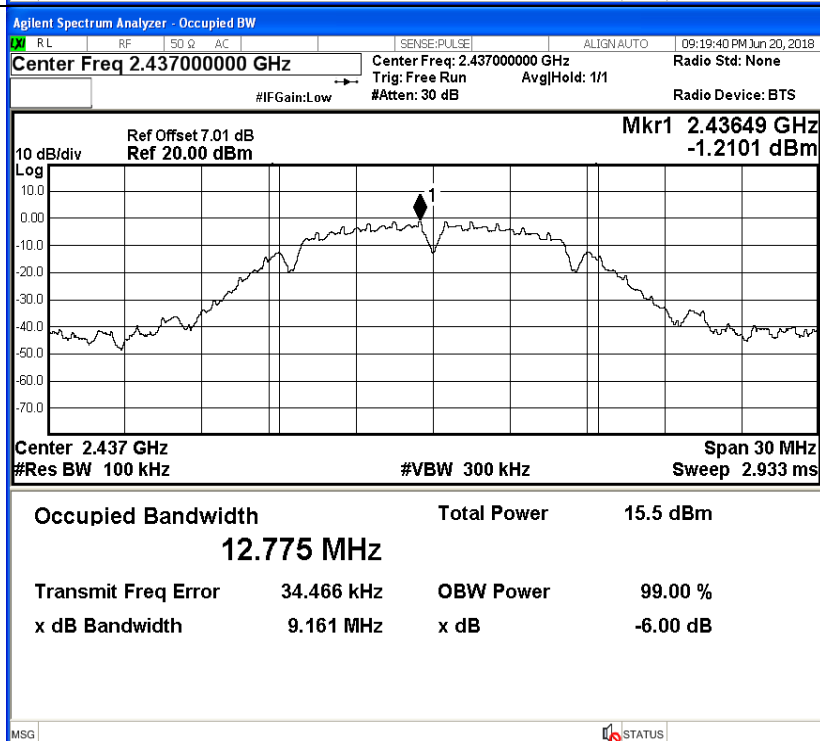
11B/LCH



Frequency

Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

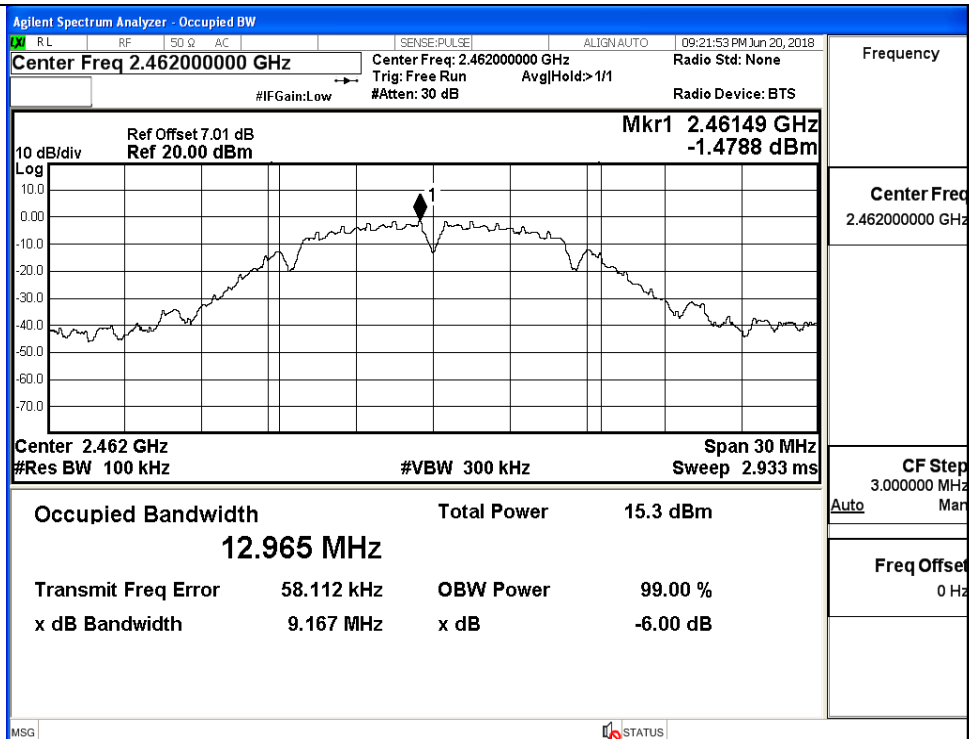
11B/MCH



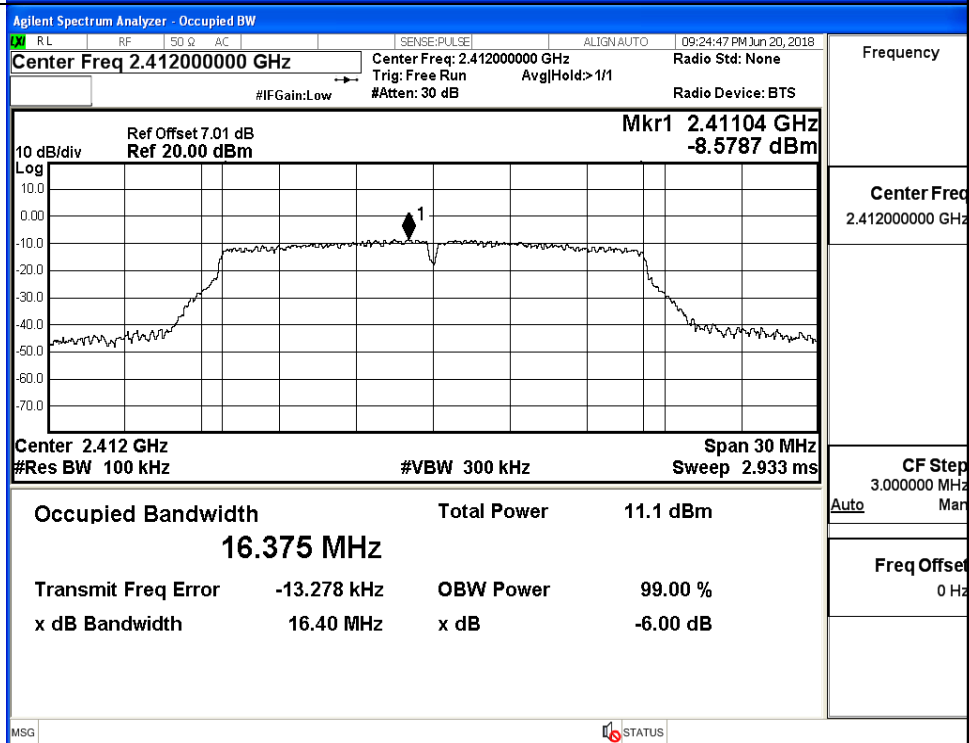
Frequency

Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

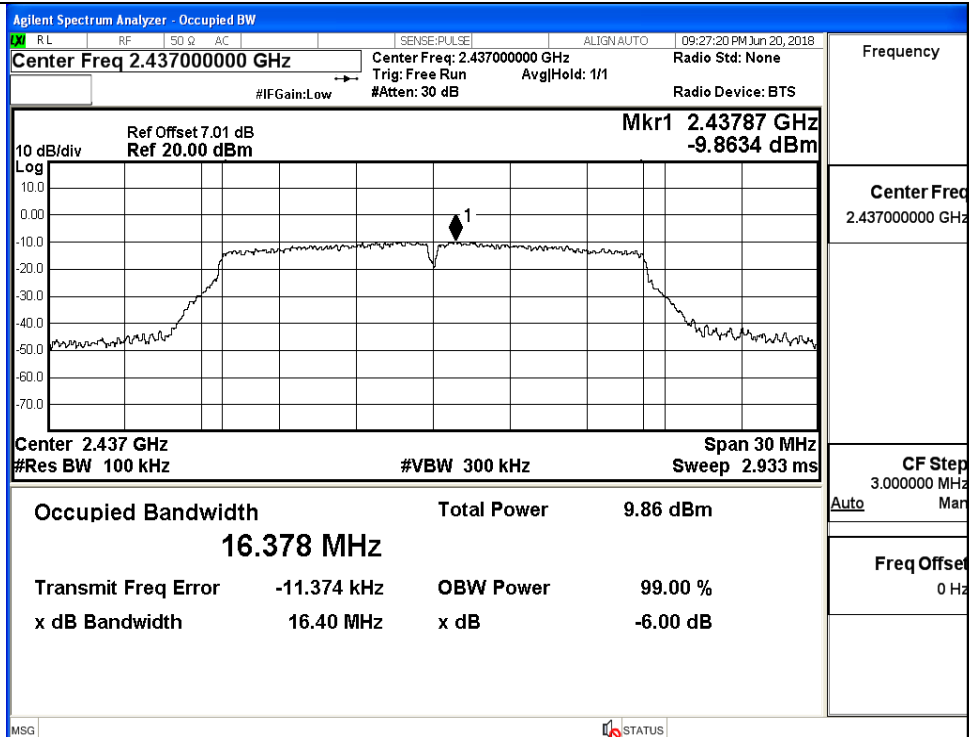
11B/HCH



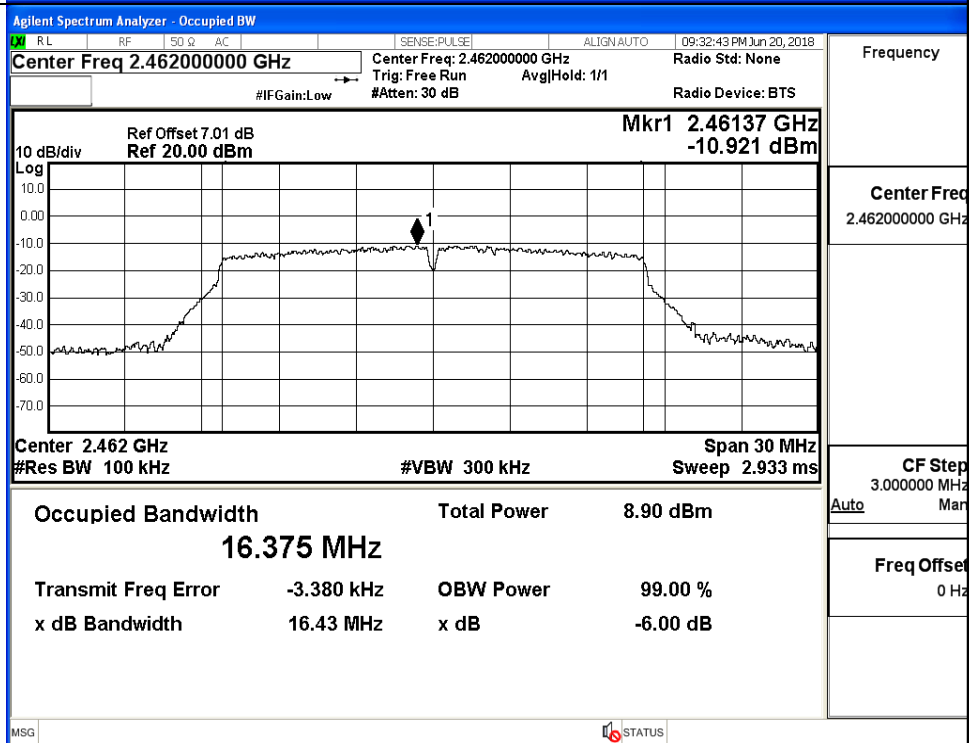
11G/LCH



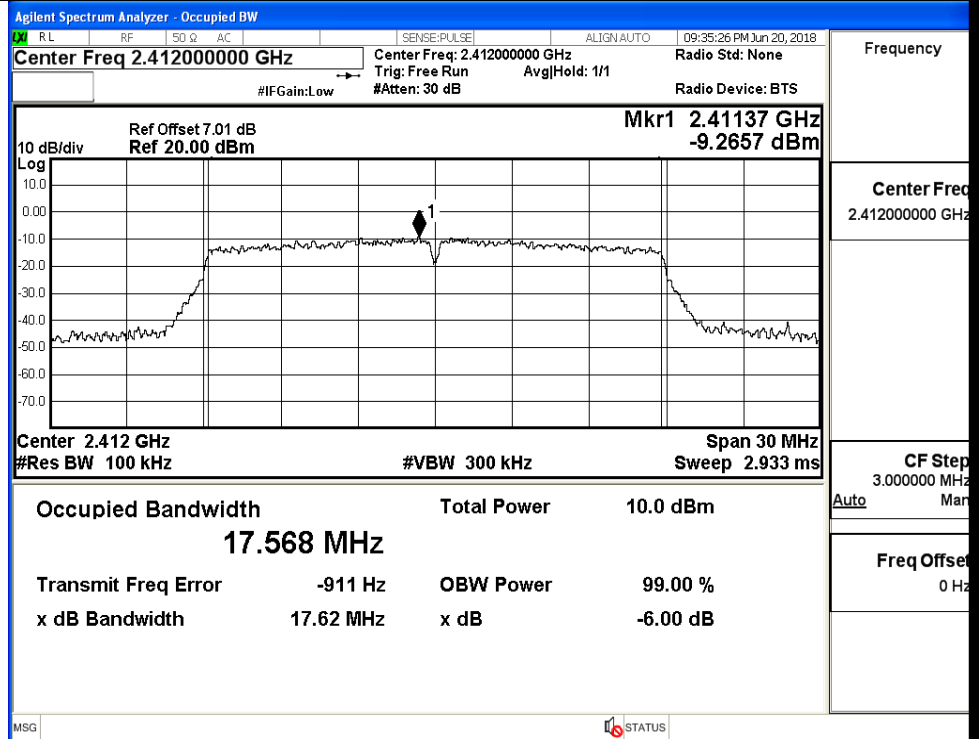
11G/MCH



11G/HCH



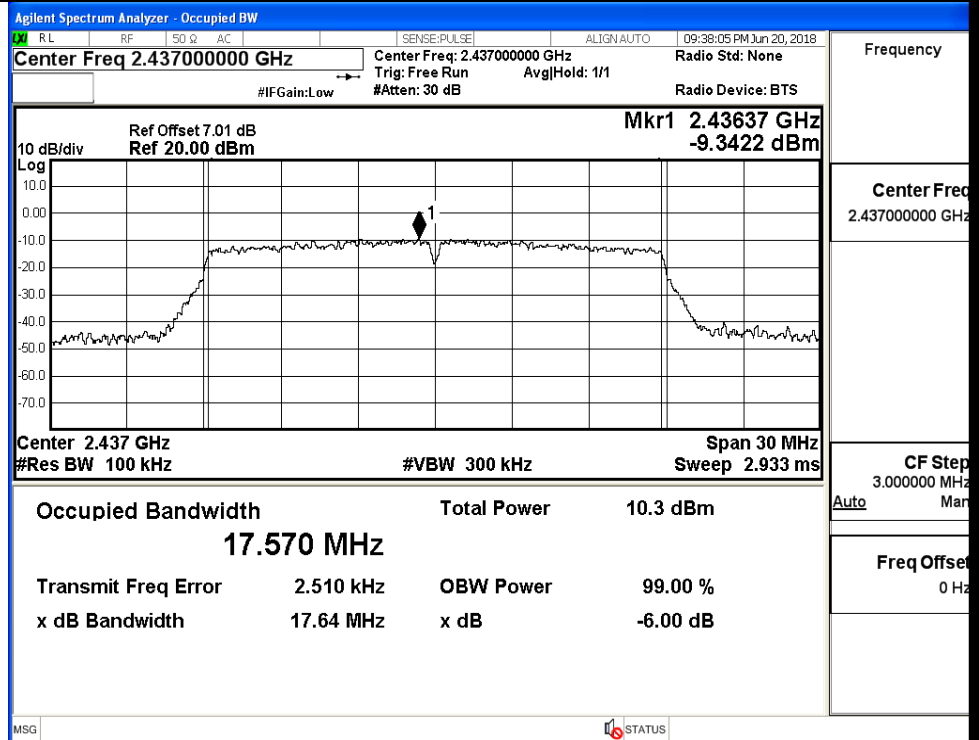
11N20SISO/LCH



Frequency

Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

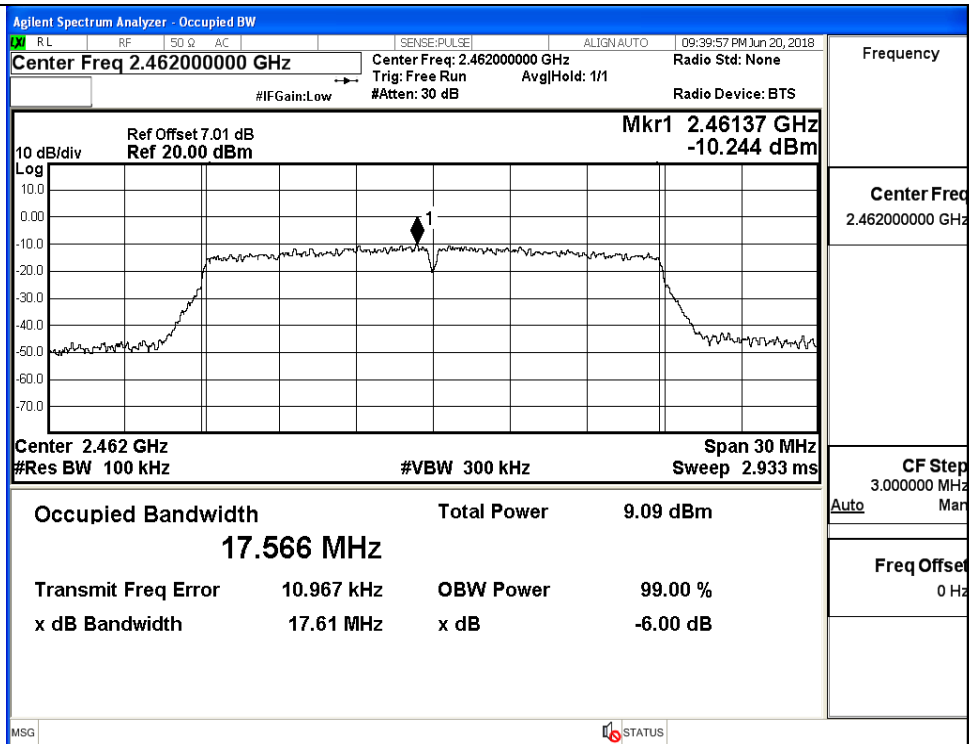
11N20SISO/MCH



Frequency

Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/HCH

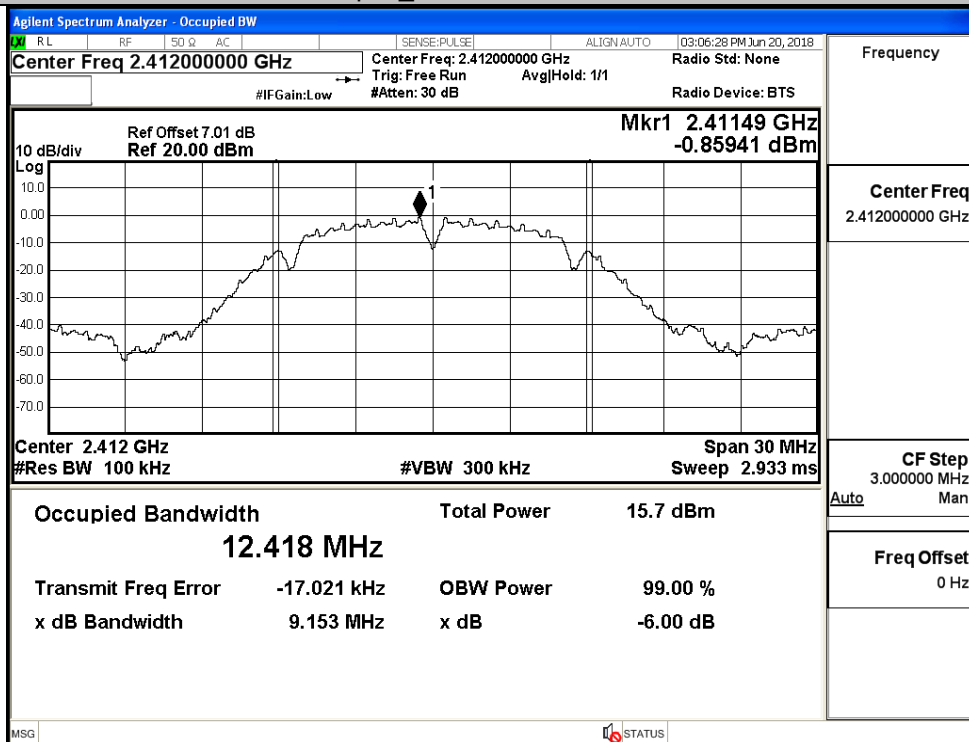


Frequency

Center Freq
2.462000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

Test Graphs_Ant1

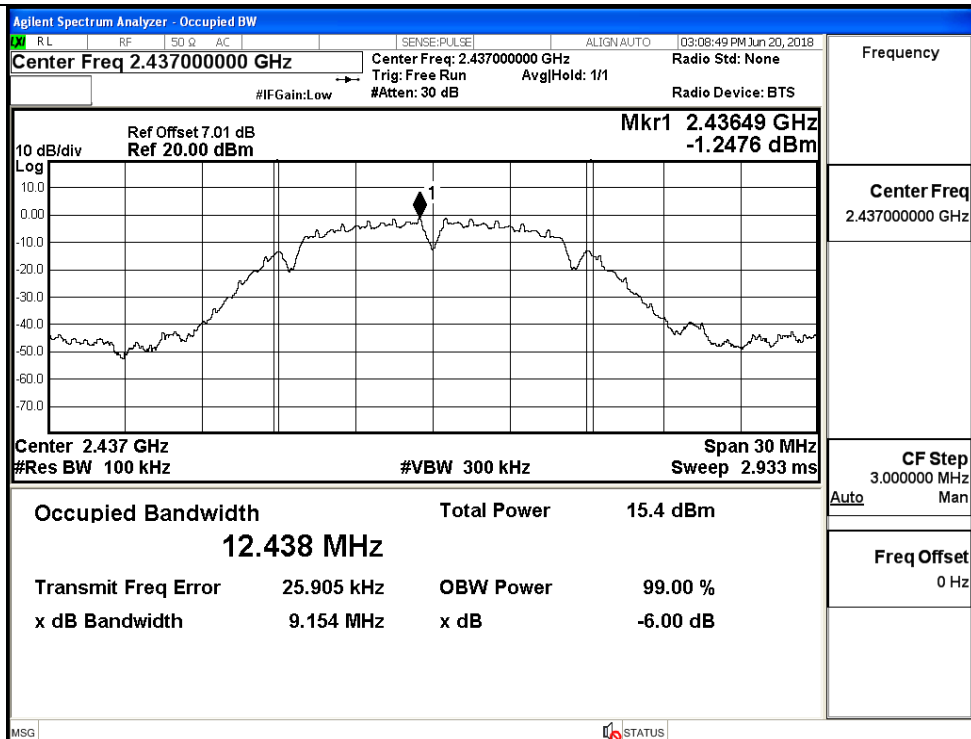
11B/LCH



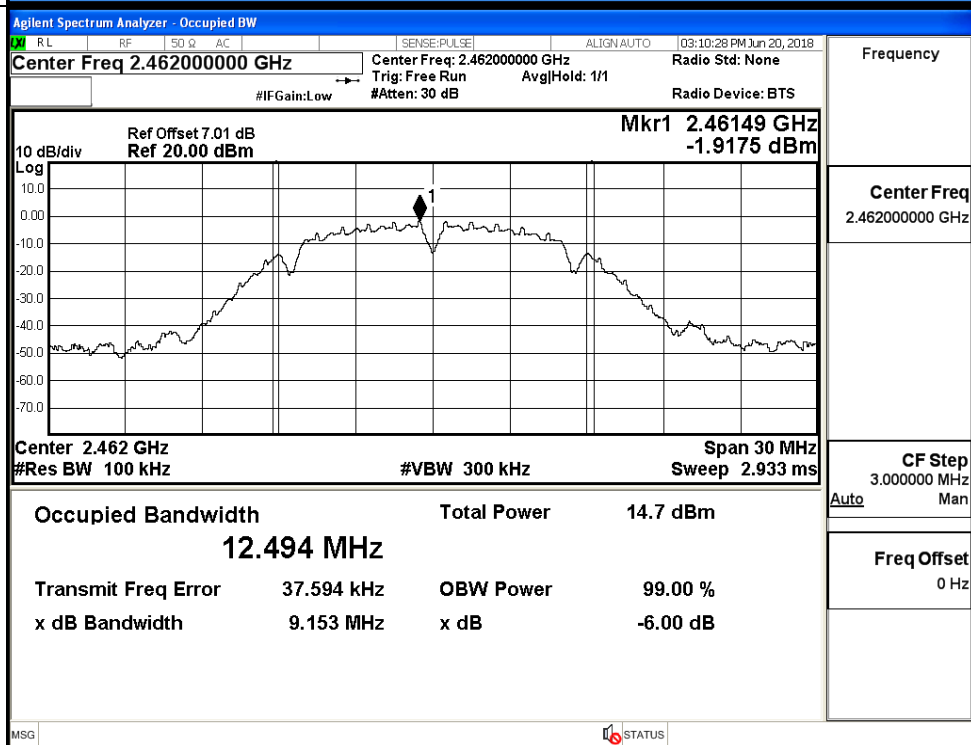
Frequency

Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

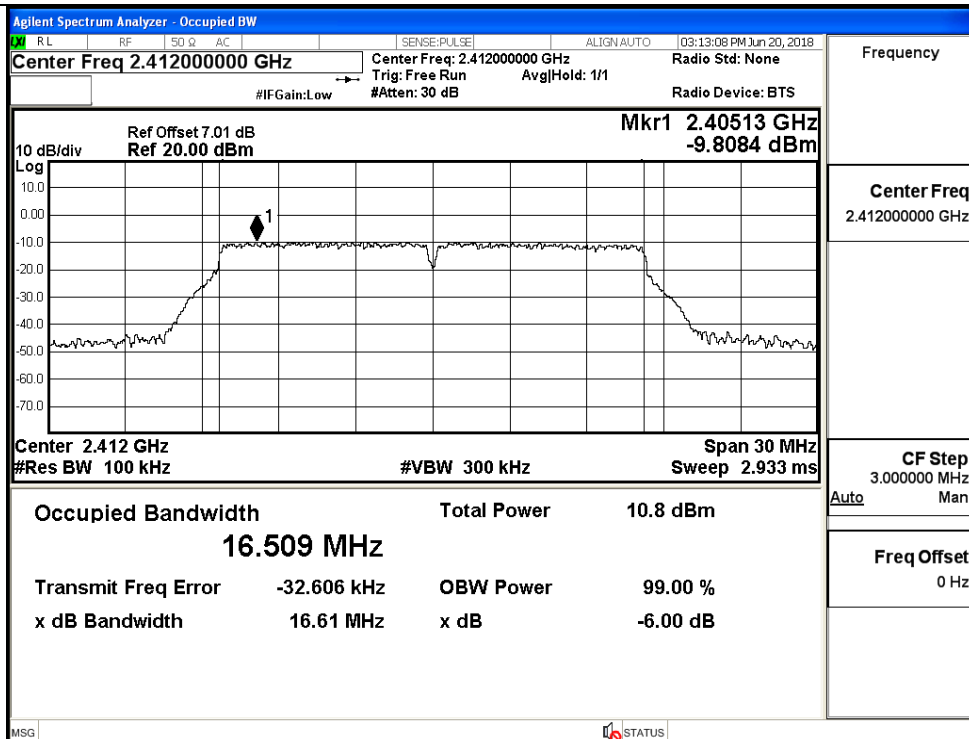
11B/MCH



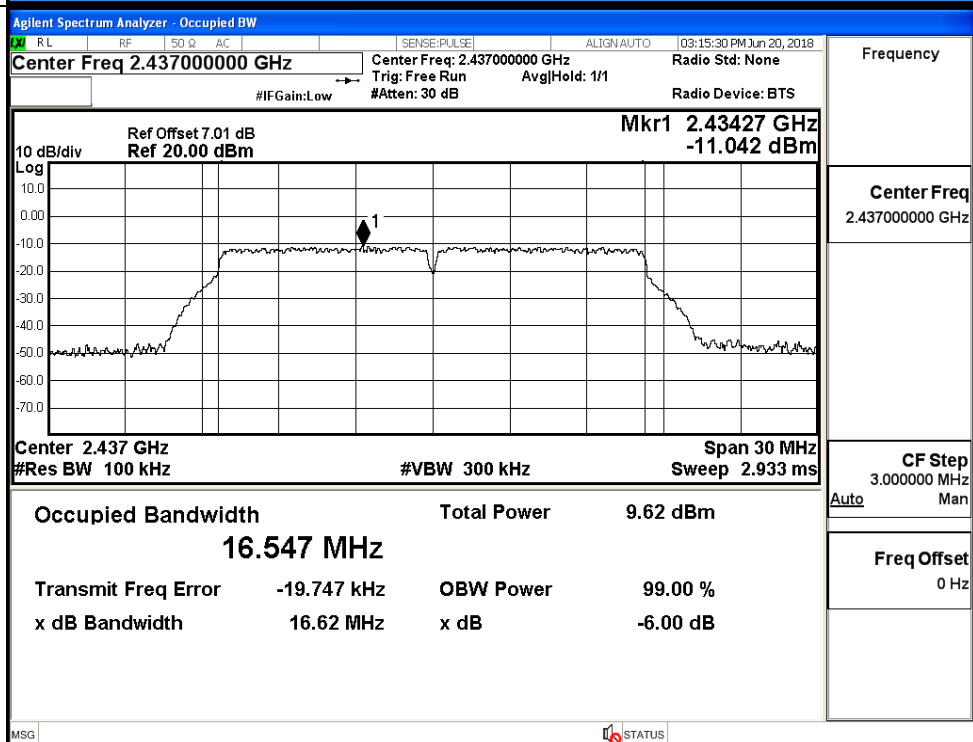
11B/HCH



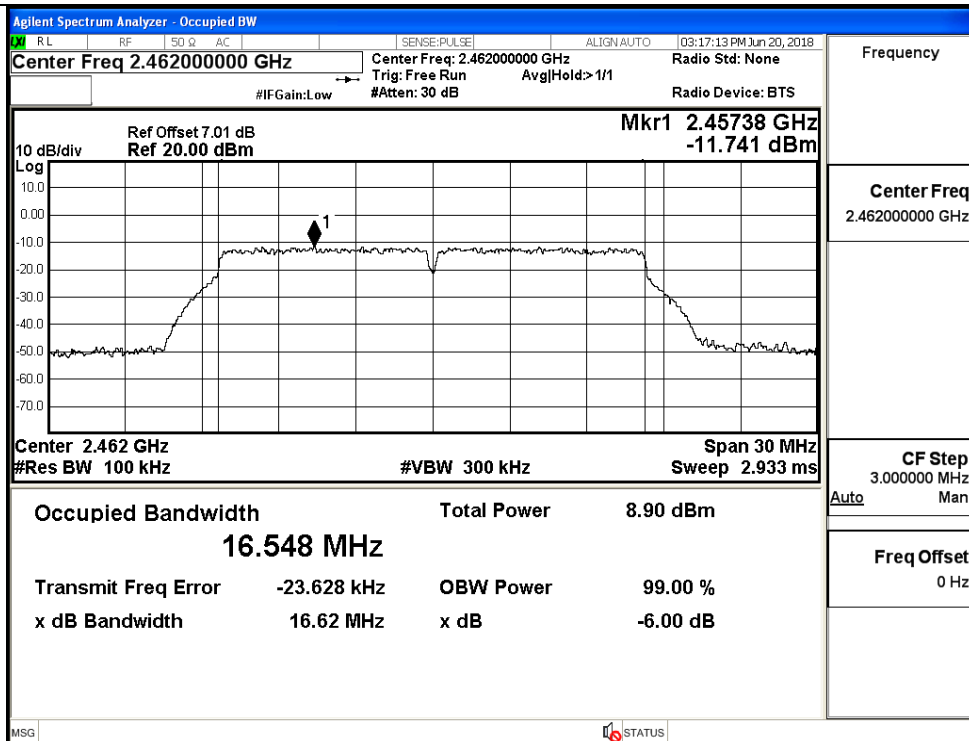
11G/LCH



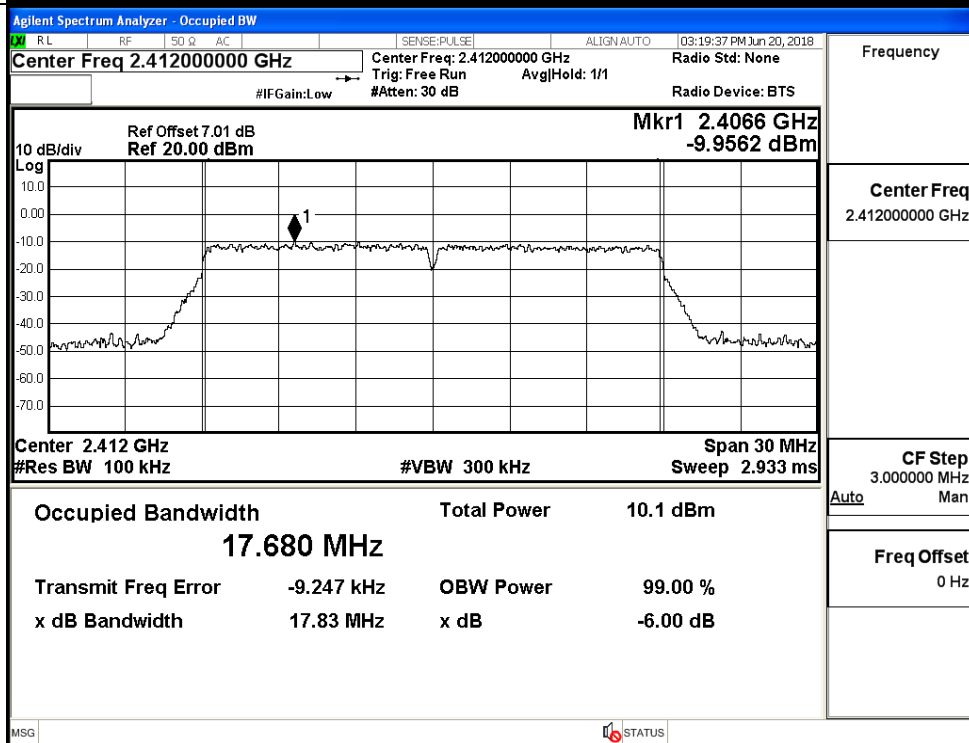
11G/MCH



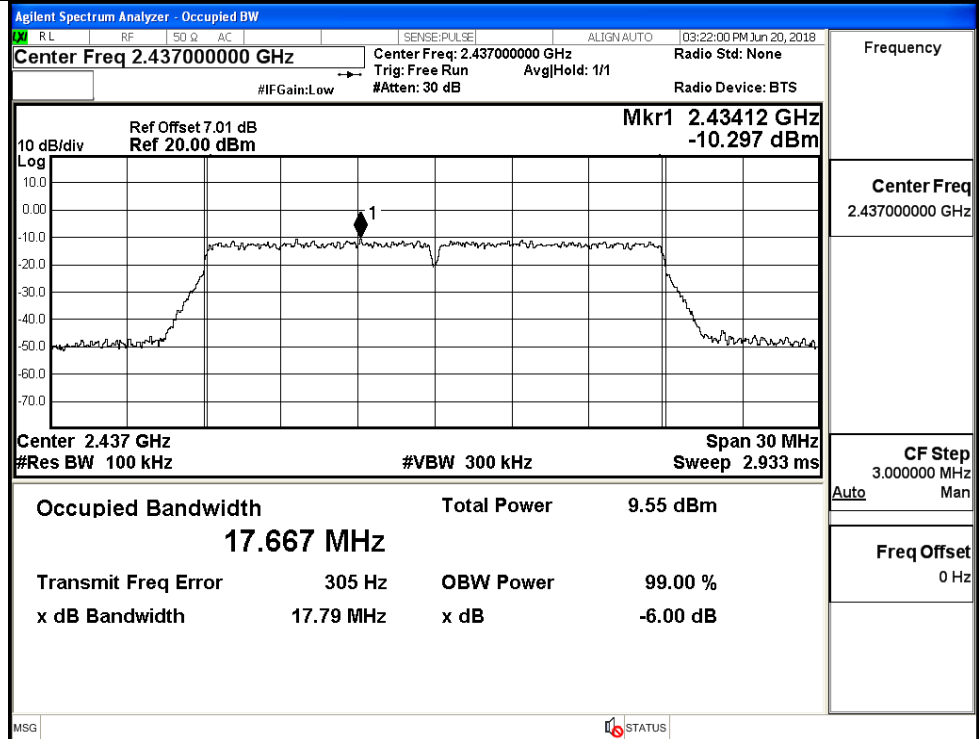
11G/HCH



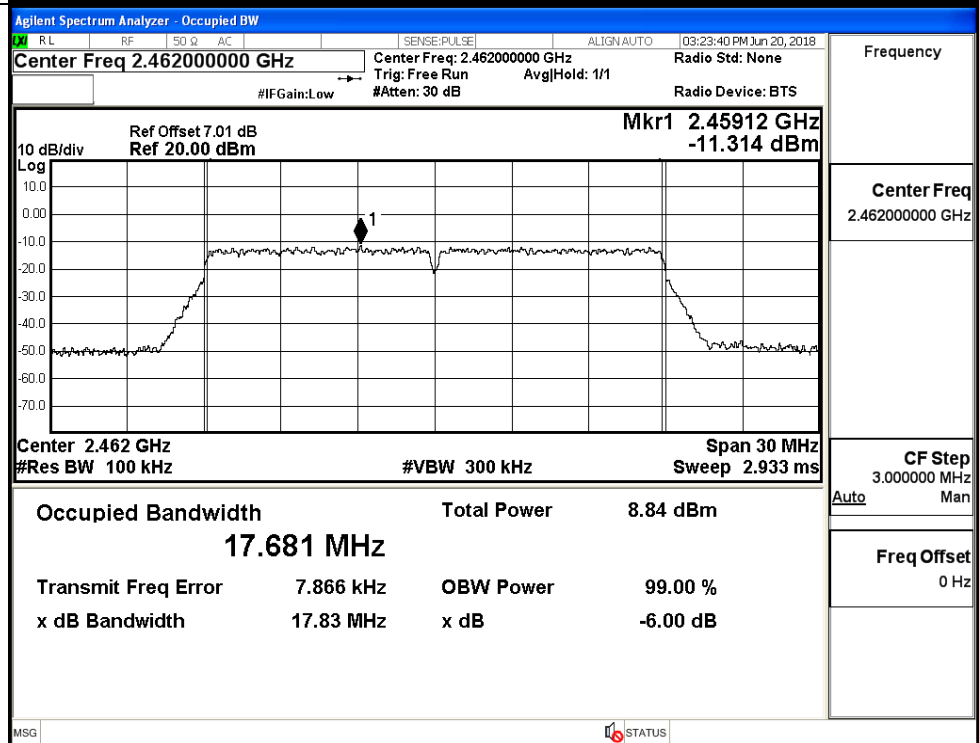
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH



A.5 RF Conducted Spurious Emissions

Antenna 0

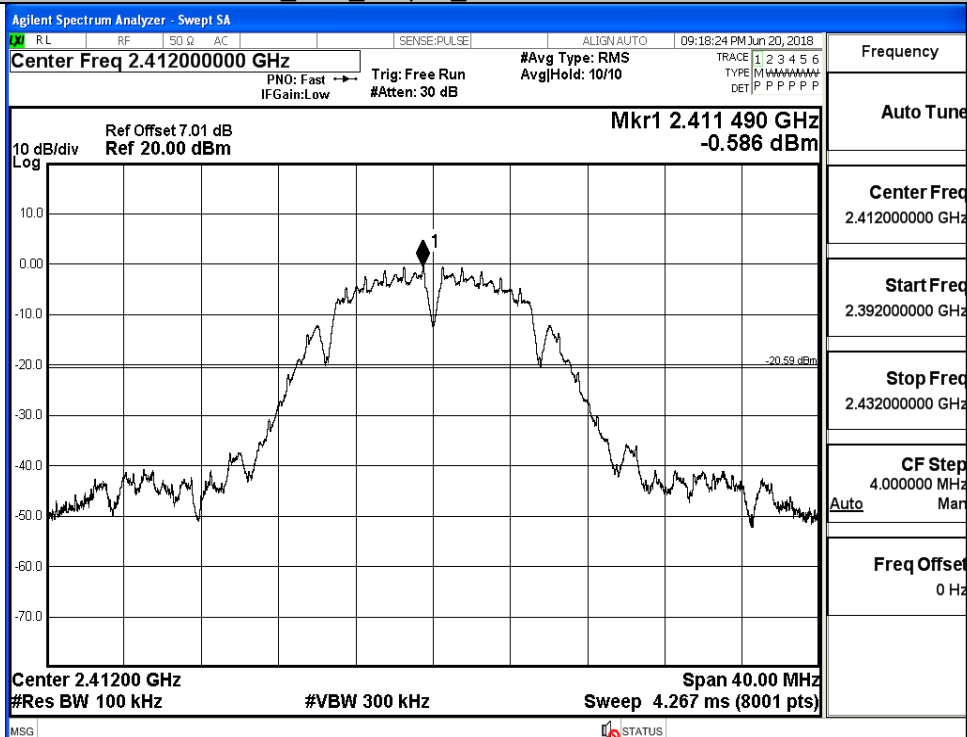
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.586	-44.960	-20.586	PASS
	MCH	-1.252	-44.222	-21.252	PASS
	HCH	-1.538	-43.475	-21.538	PASS
11G	LCH	-8.555	-44.697	-28.555	PASS
	MCH	-9.979	-44.186	-29.979	PASS
	HCH	-10.976	-43.067	-30.976	PASS
11N20 SISO	LCH	-9.607	-32.646	-29.607	PASS
	MCH	-9.348	-43.883	-29.348	PASS
	HCH	-10.324	-45.207	-30.324	PASS

Antenna 1

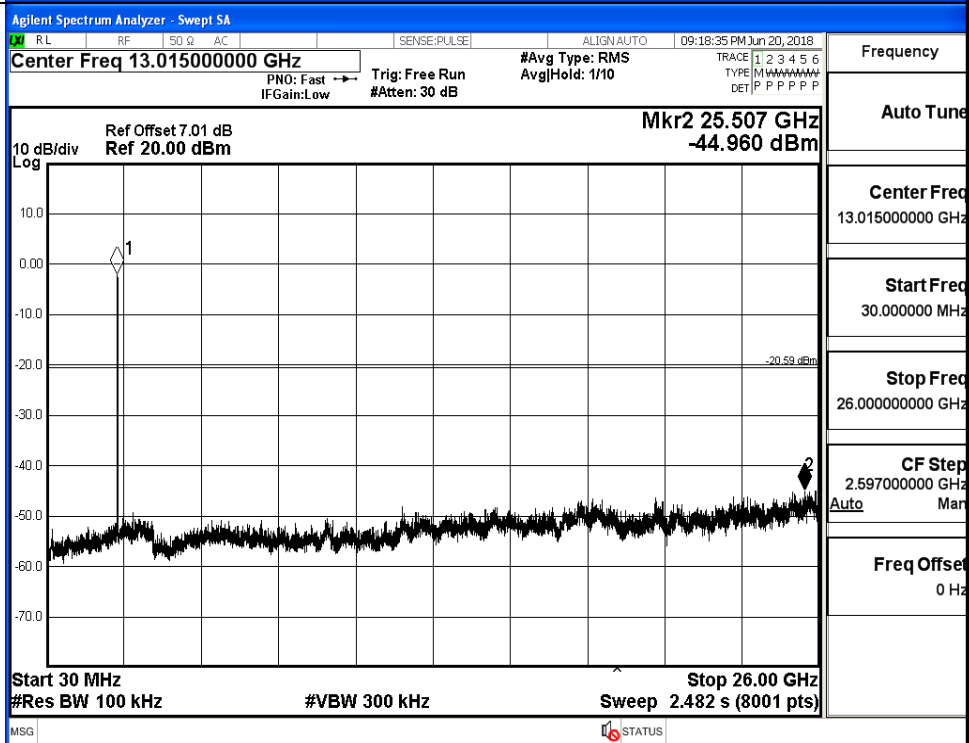
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.955	-45.120	-20.955	PASS
	MCH	-1.288	-44.360	-21.288	PASS
	HCH	-1.967	-45.595	-21.967	PASS
11G	LCH	-9.806	-43.939	-29.806	PASS
	MCH	-10.909	-44.707	-30.909	PASS
	HCH	-11.862	-44.296	-31.862	PASS
11N20 SISO	LCH	-10.275	-44.610	-30.275	PASS
	MCH	-10.752	-44.709	-30.752	PASS
	HCH	-11.283	-44.630	-31.283	PASS

11B_LCH Graphs_Ant0

Pref/11B/LCH

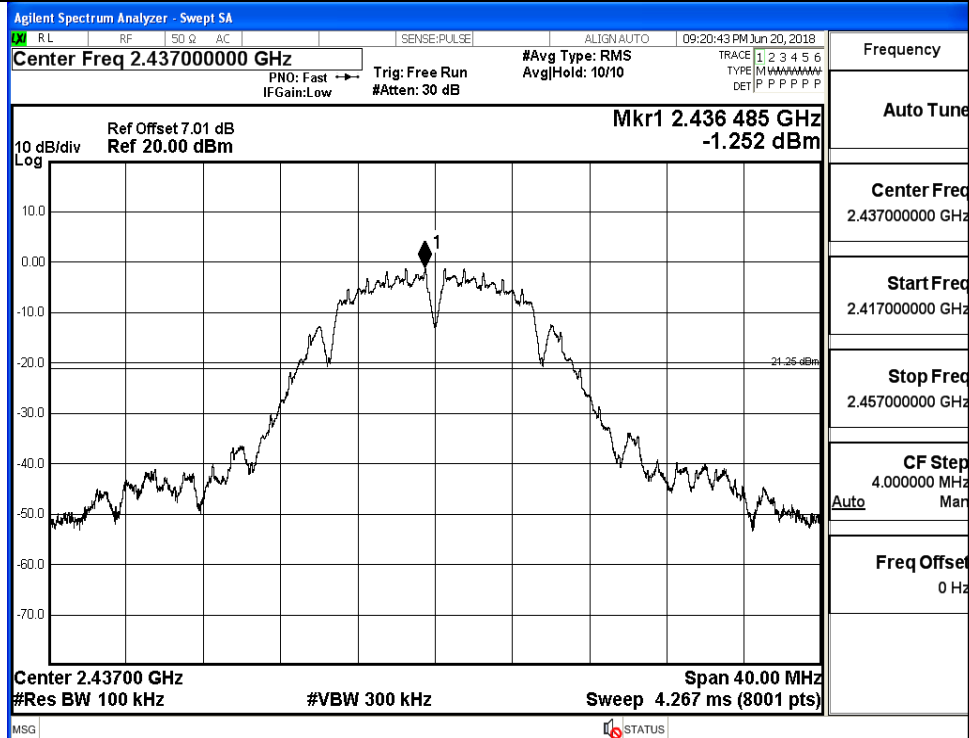


Puw/11B/LCH

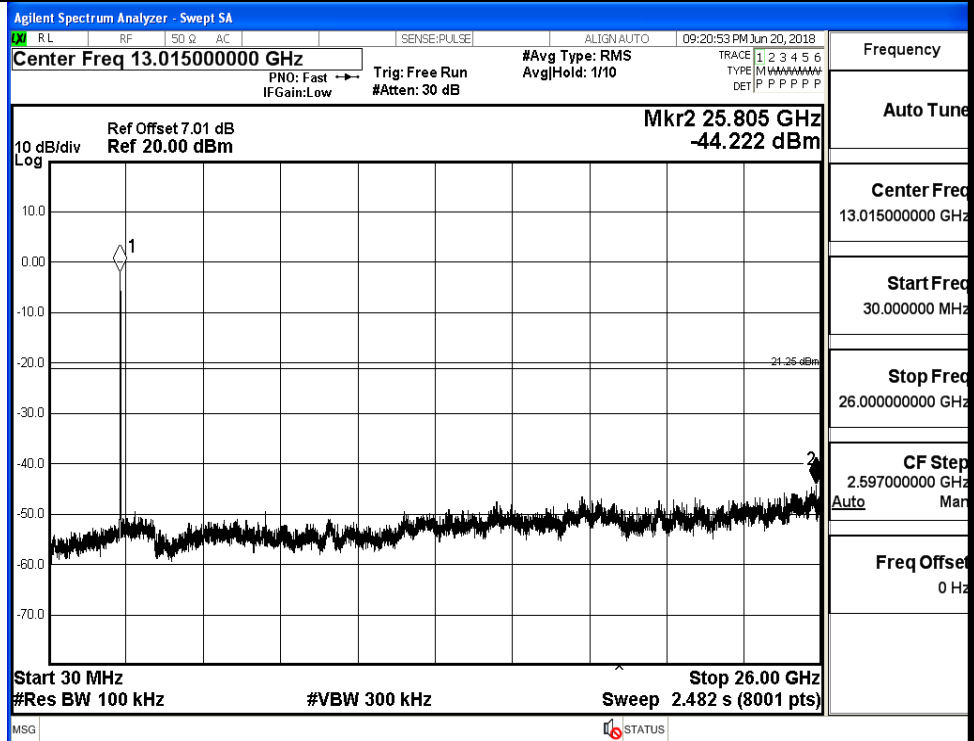


11B_MCH_Graphs_Ant0

Pref/11B/MCH

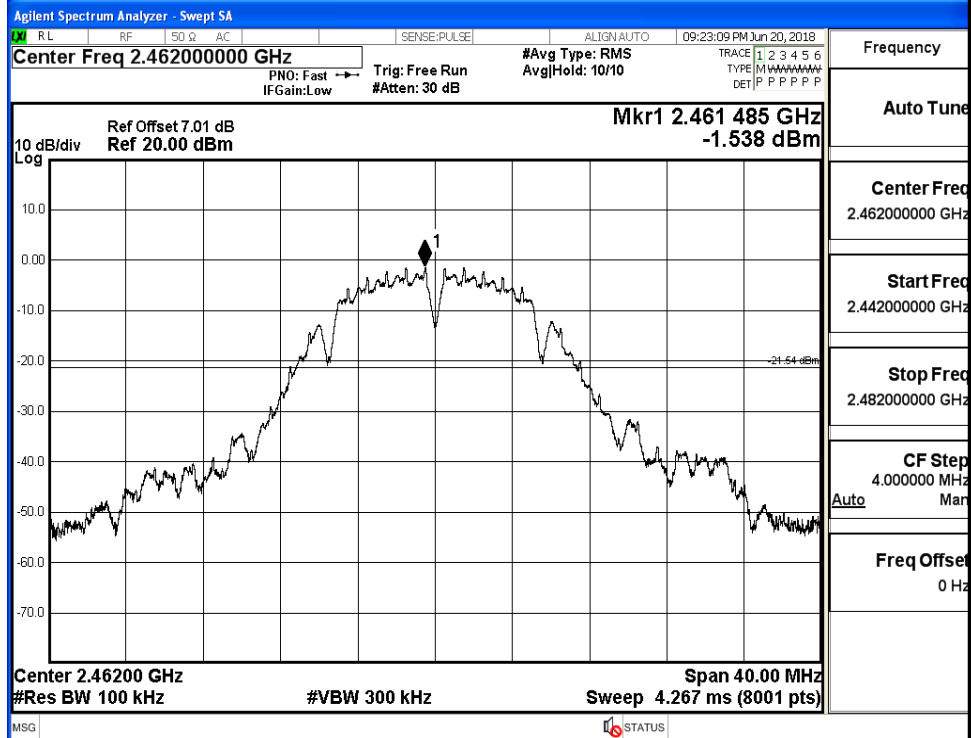


Puw/11B/MCH

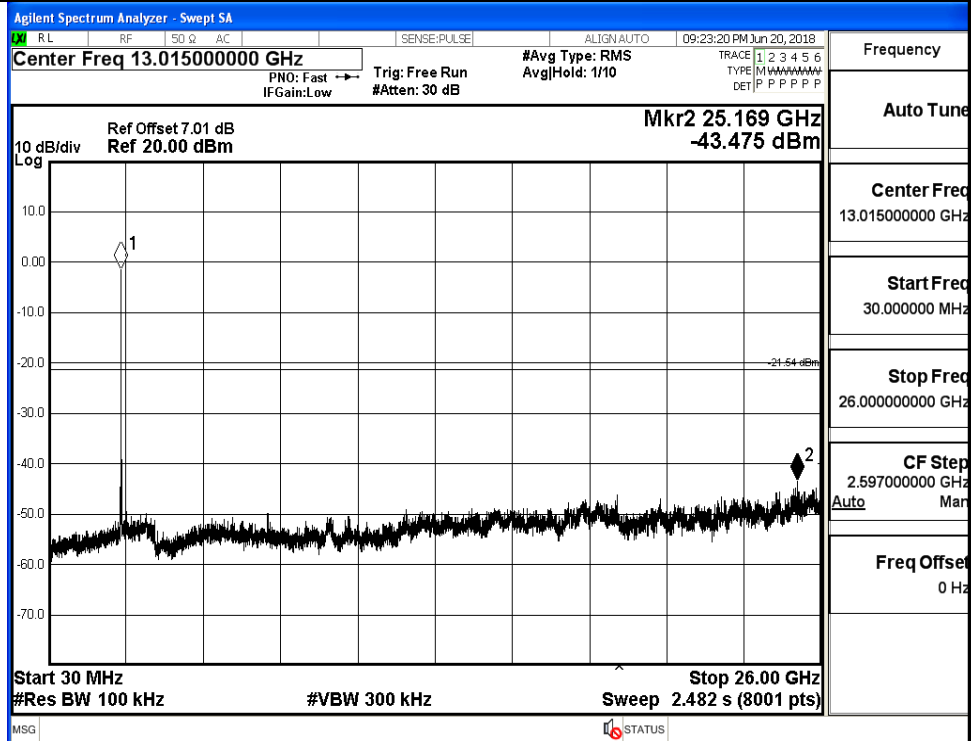


11B_HCH_Graphs_Ant0

Pref/11B/HCH

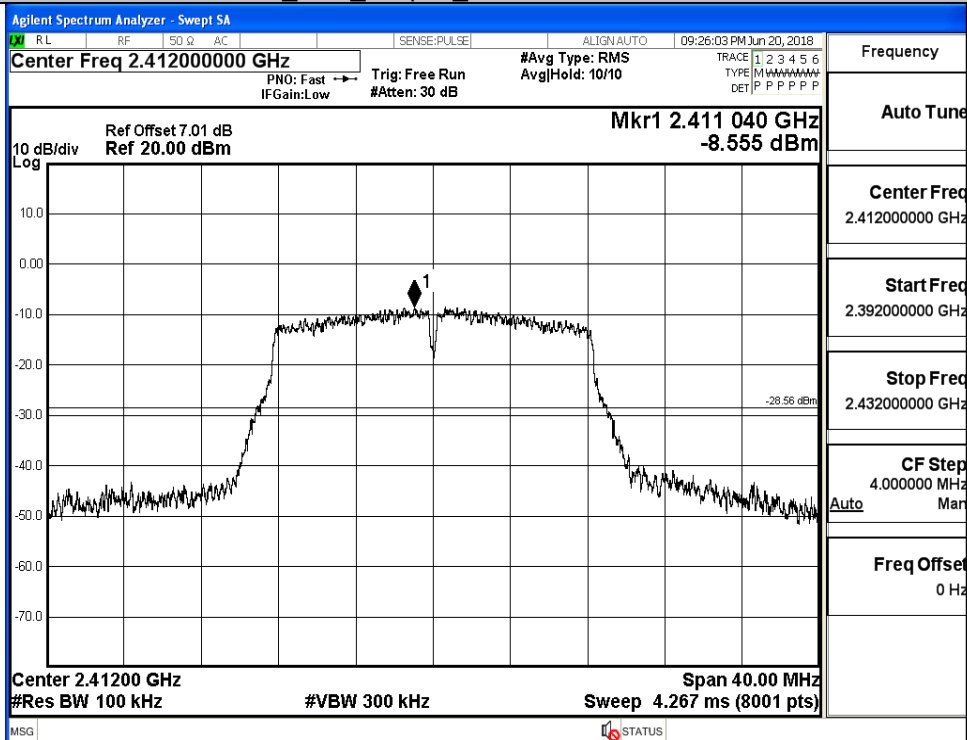


Puw/11B/HCH

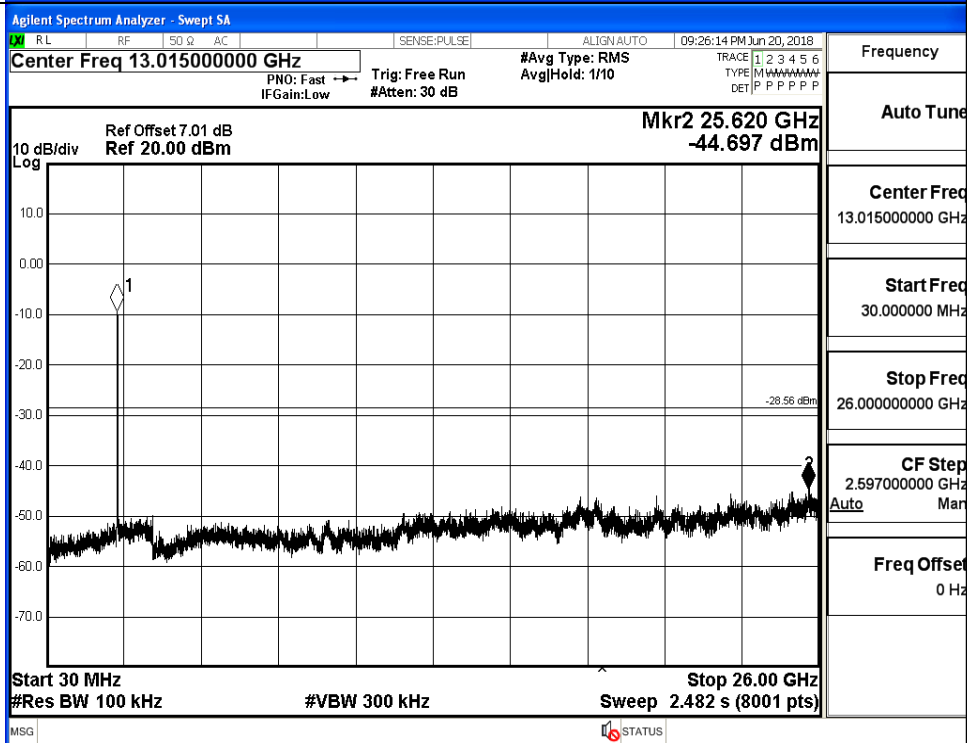


11G_LCH Graphs_Ant0

Pref/11G/LCH

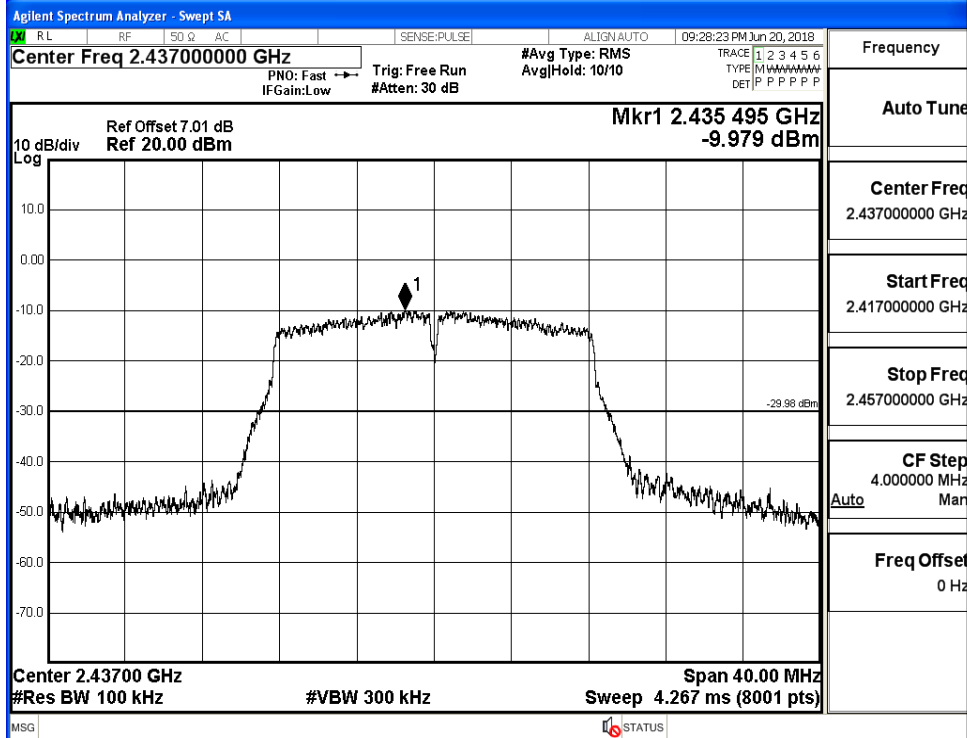


Puw/11G/LCH

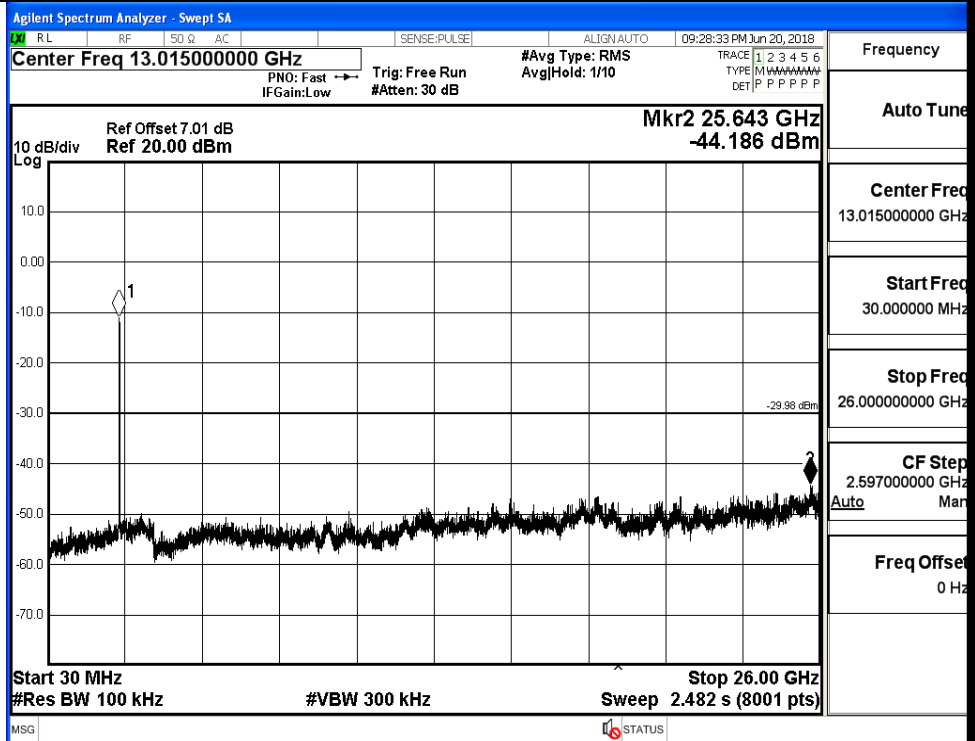


11G_MCH_Graphs_Ant0

Pref/11G/MCH

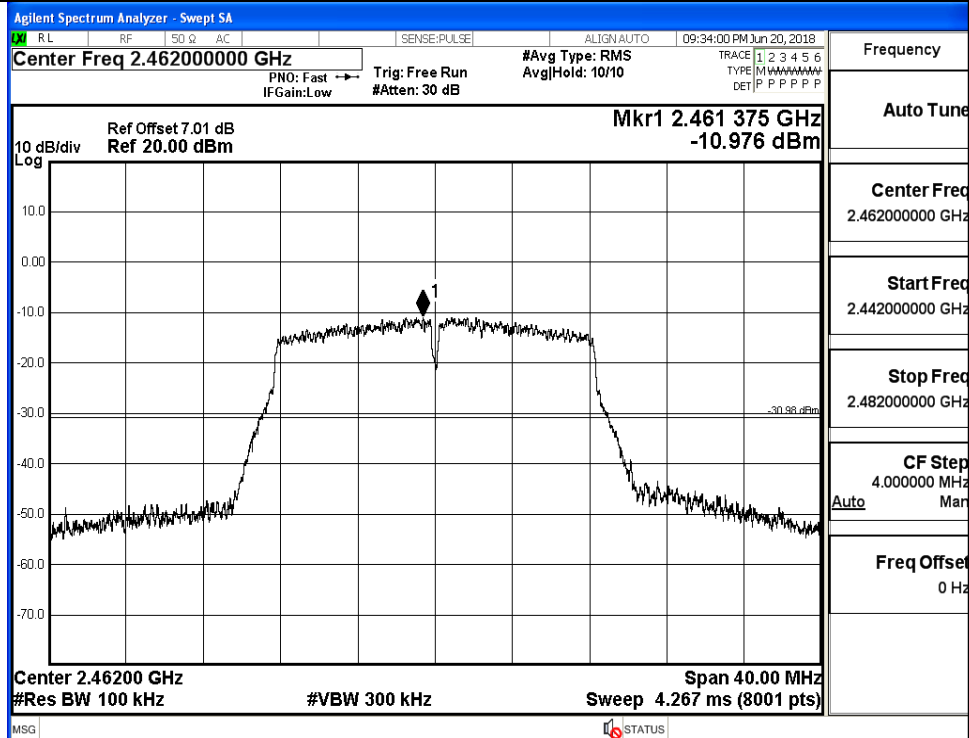


Puw/11G/MCH

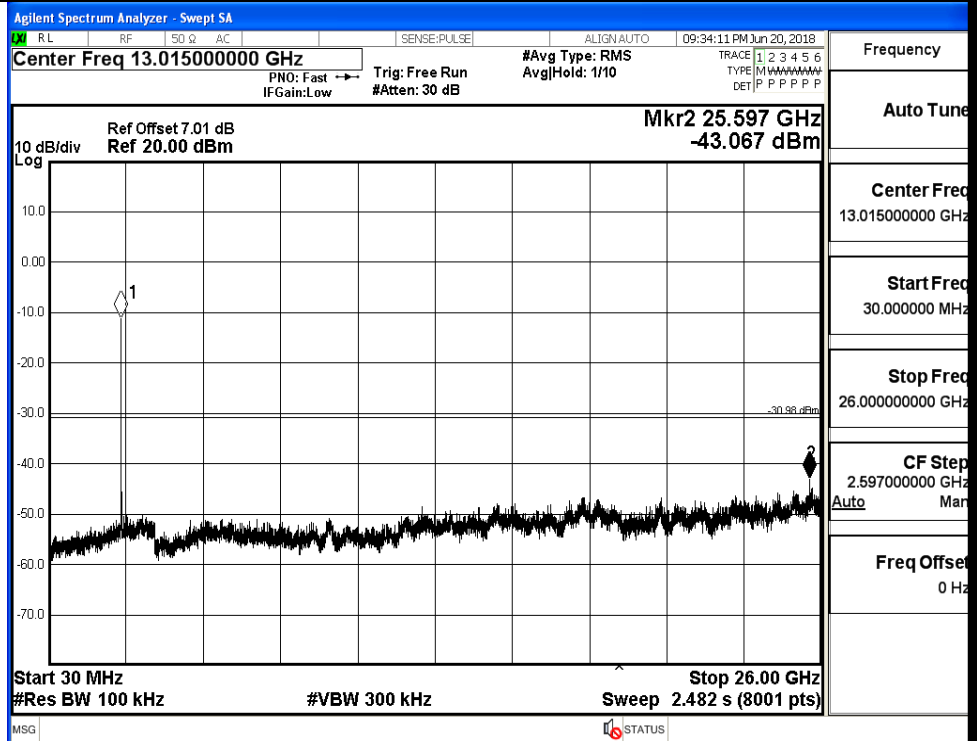


11G_HCH_Graphs_Ant0

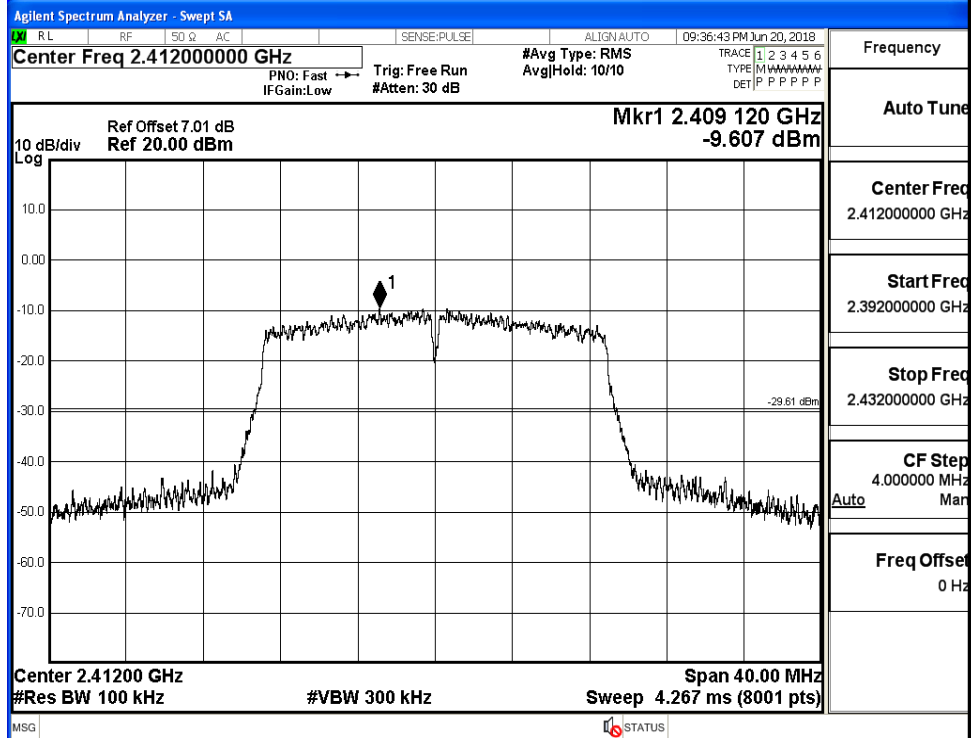
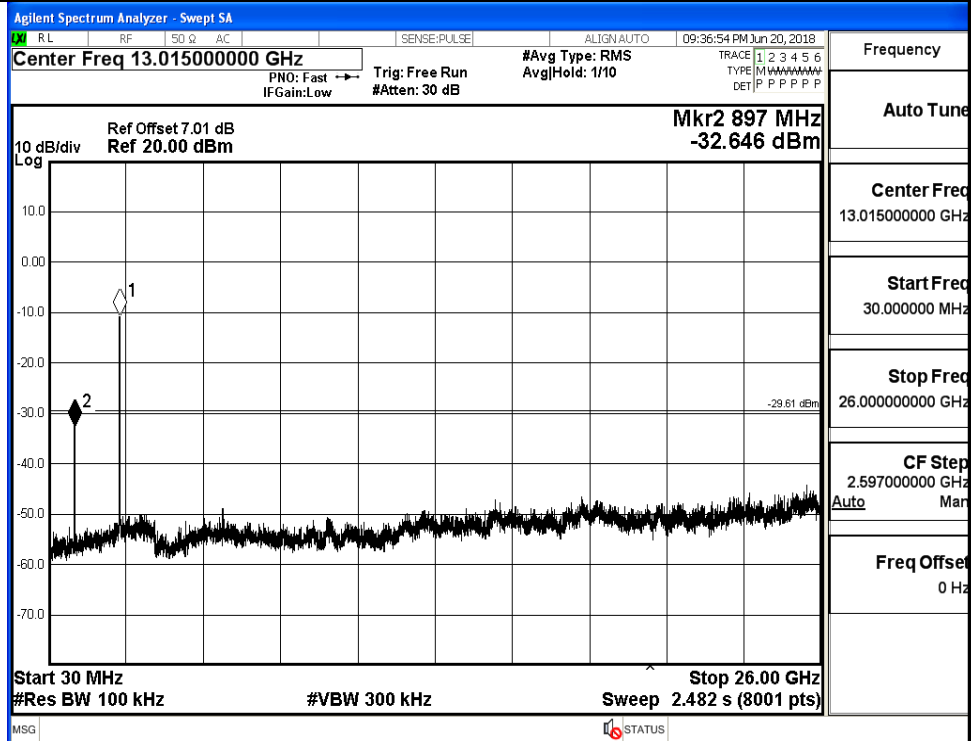
Pref/11G/HCH



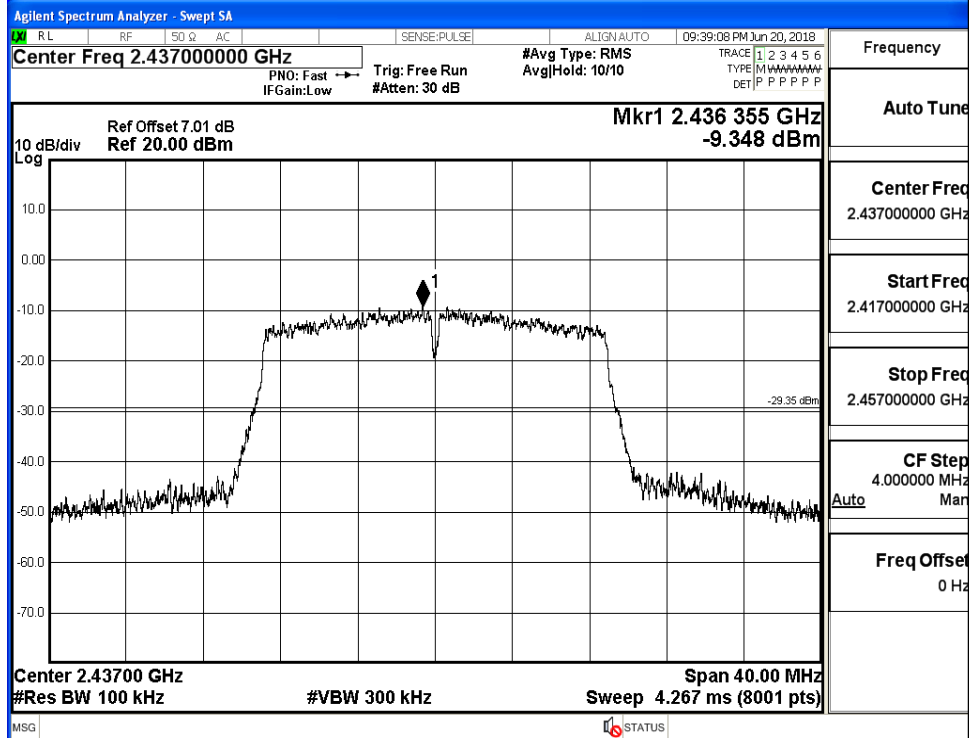
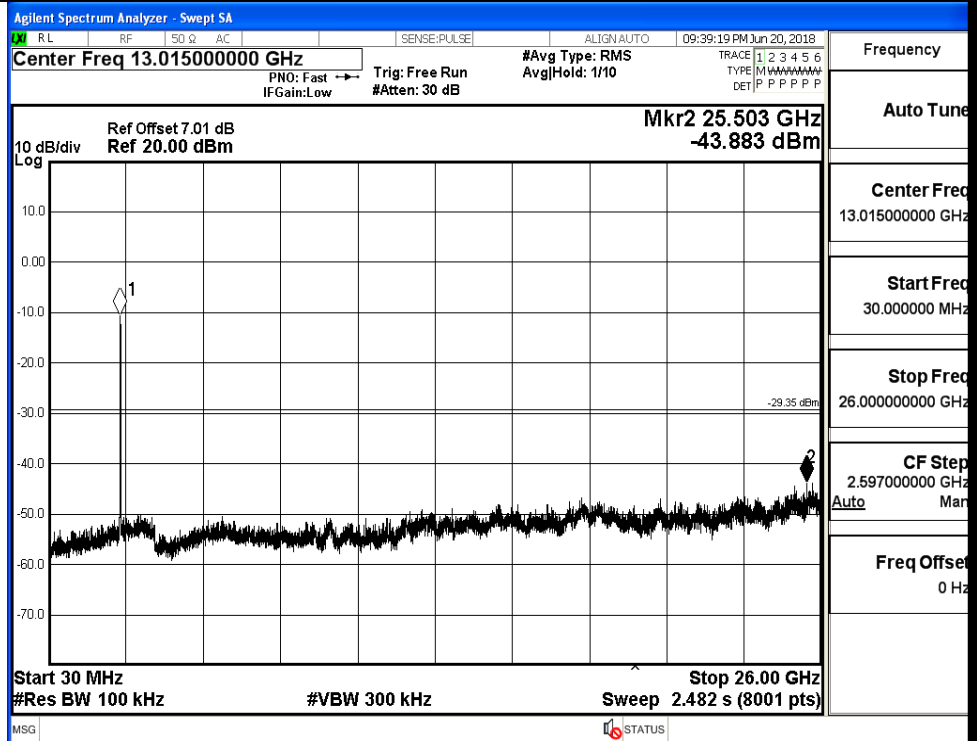
Puw/11G/HCH



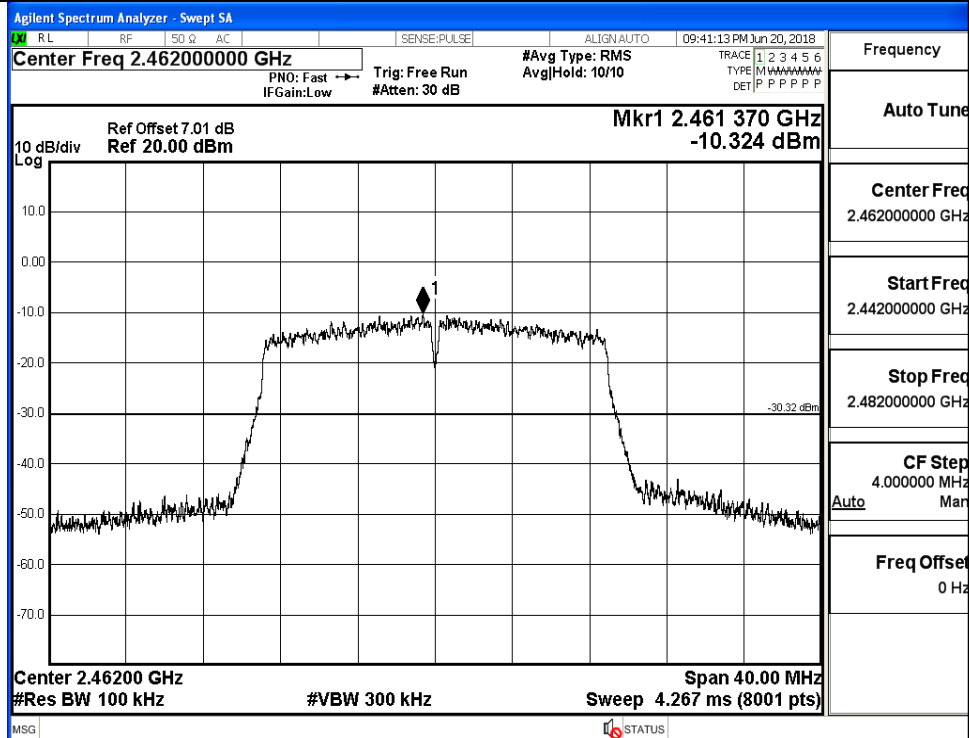
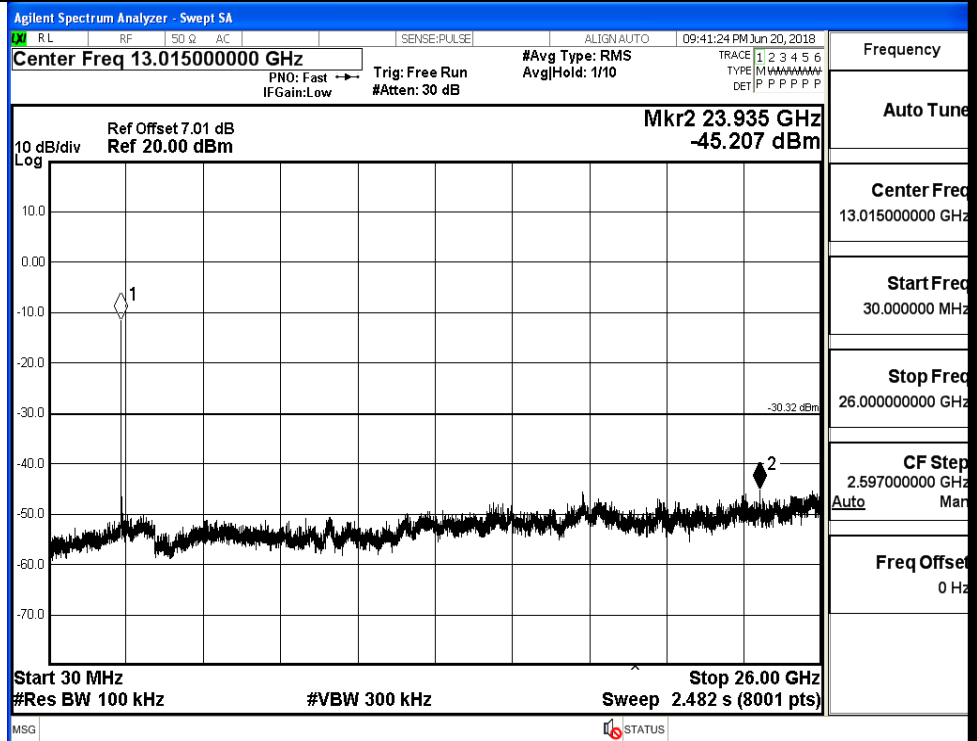
11N20SISO_LCH Graphs_Ant0

Pref/11N20SIS
O/LCHPuw/11N20
SISO/LCH

11N20SISO_MCH_Graphs_Ant0

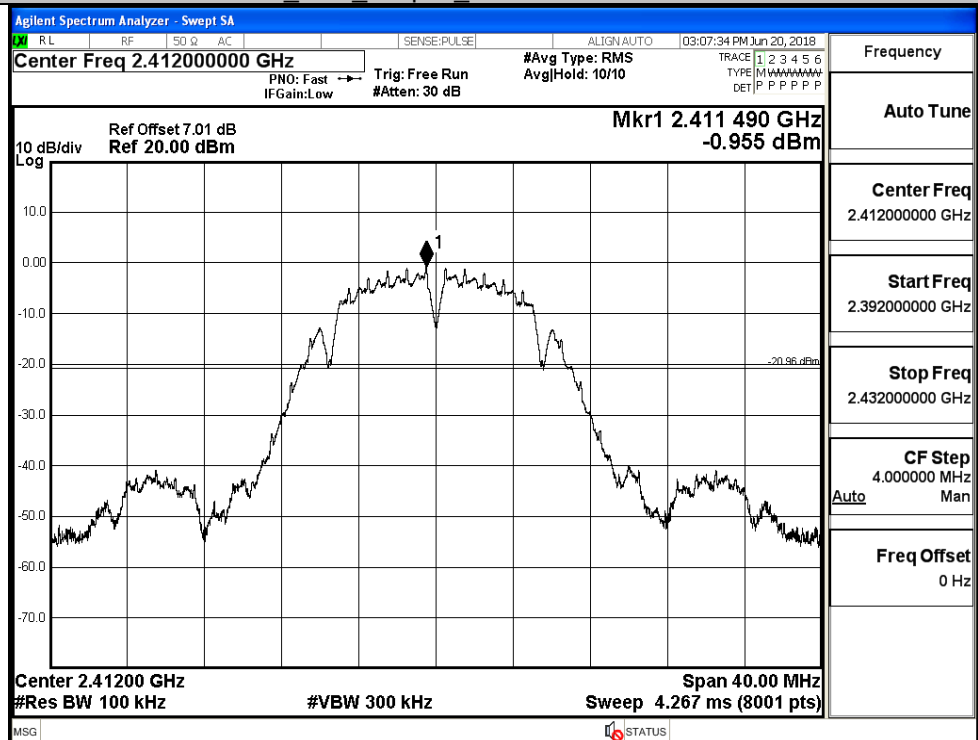
Pref/11N20
SISO/MCHPuw/11N20
SISO/MCH

11N20SISO_HCH_Graphs_Ant0

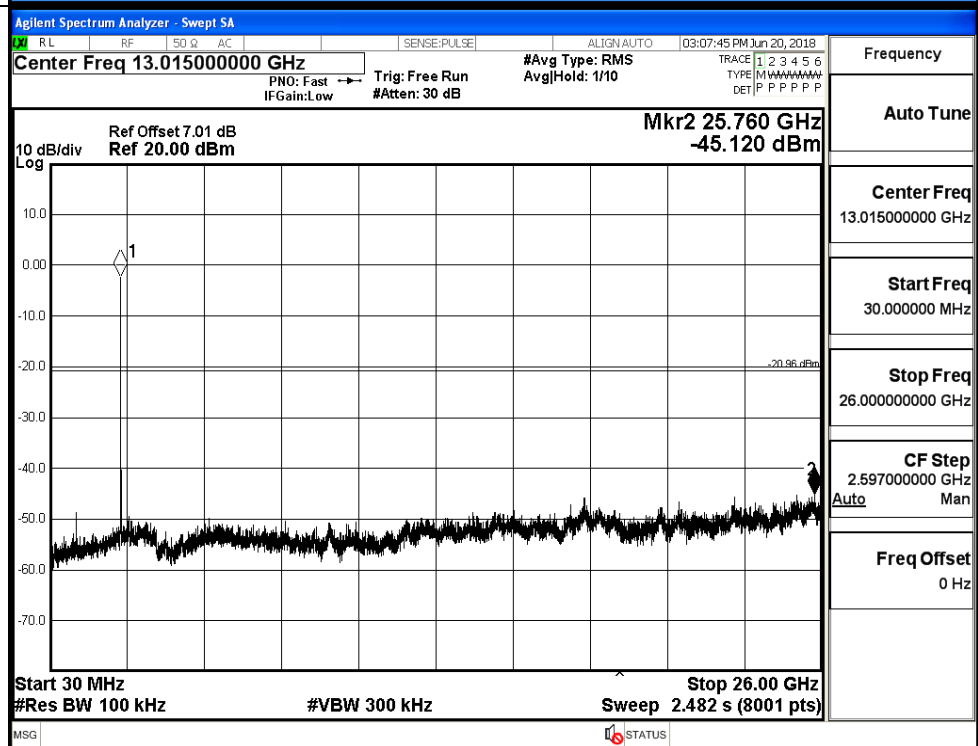
Pref/11N20
SISO/HCHPuw/11N20
SISO/HCH

11B LCH Graphs_Ant1

Pref/11B/LCH

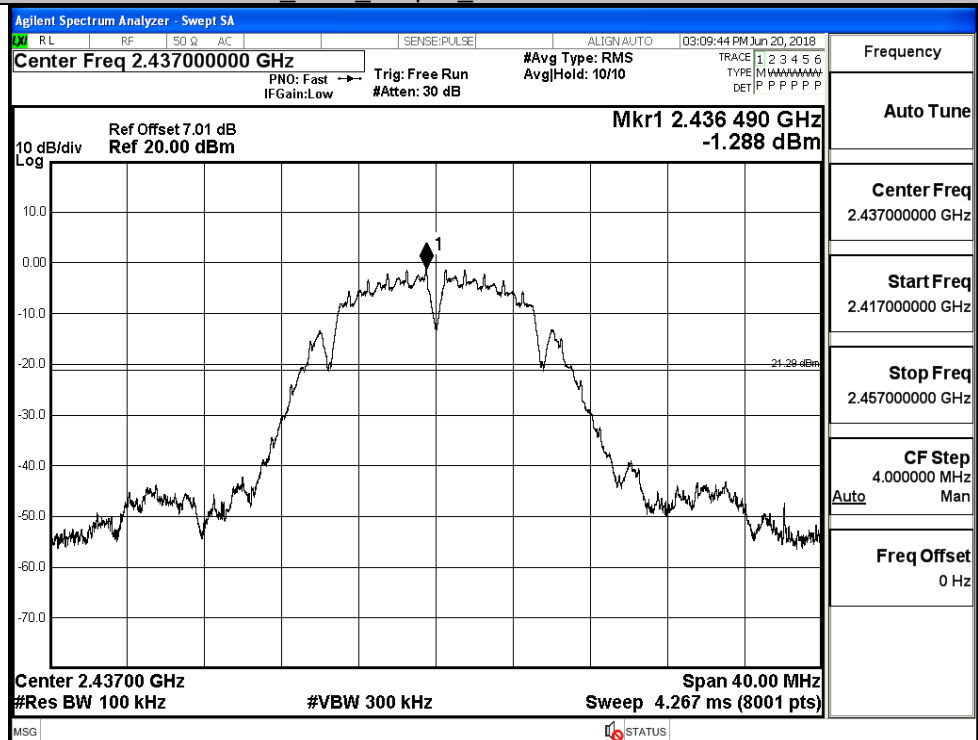


Puw/11B/LCH

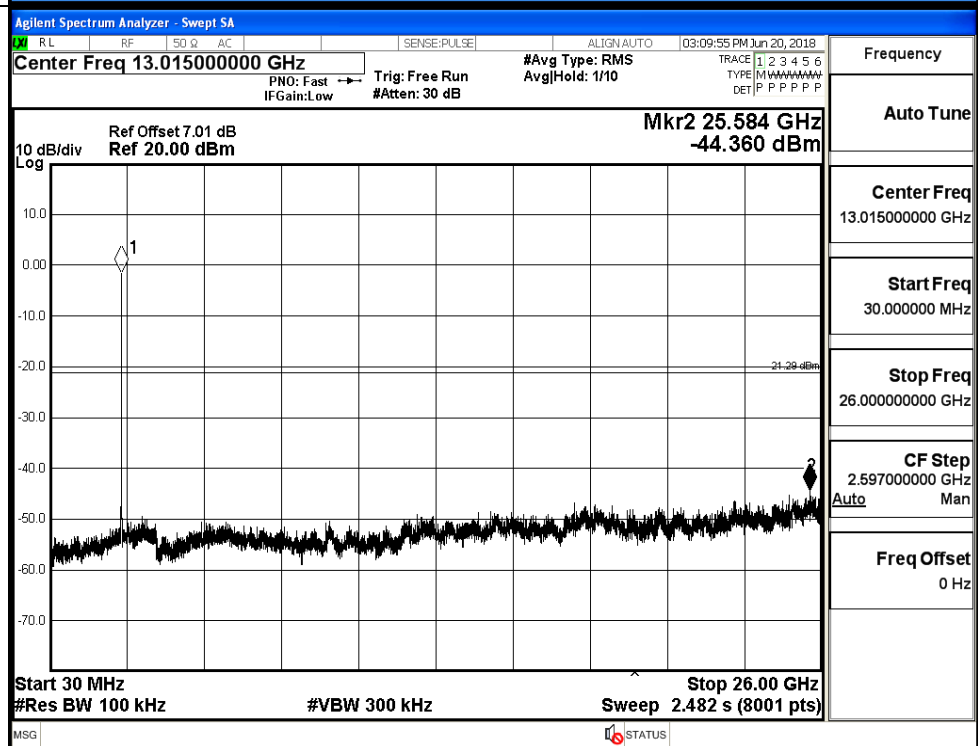


11B MCH Graphs_Ant1

Pref/11B/MCH

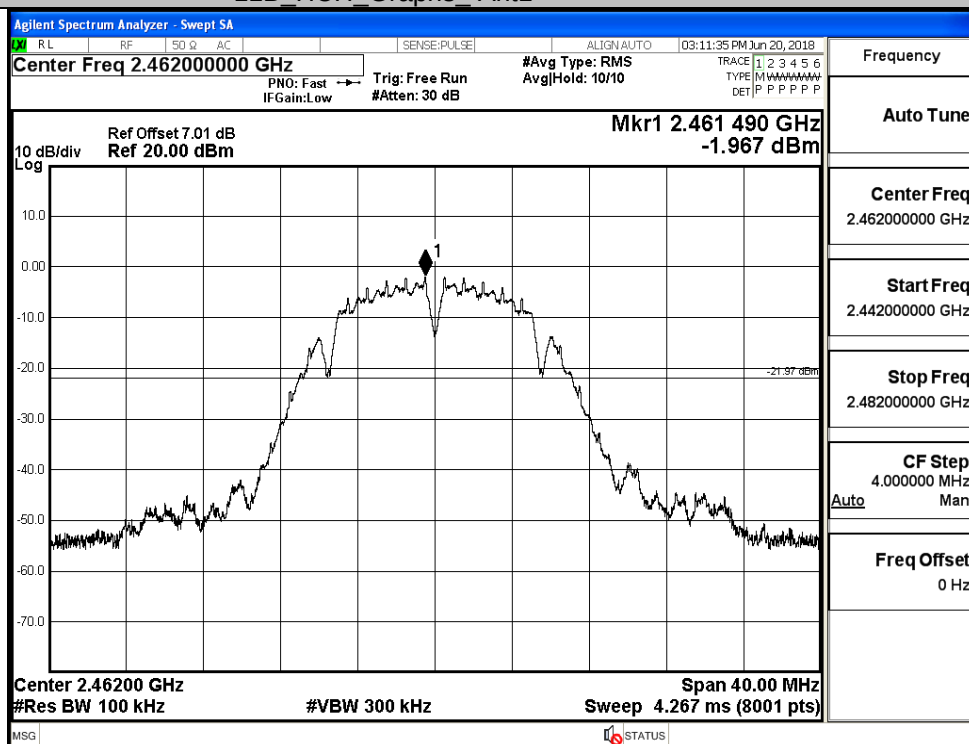


Puw/11B/MCH

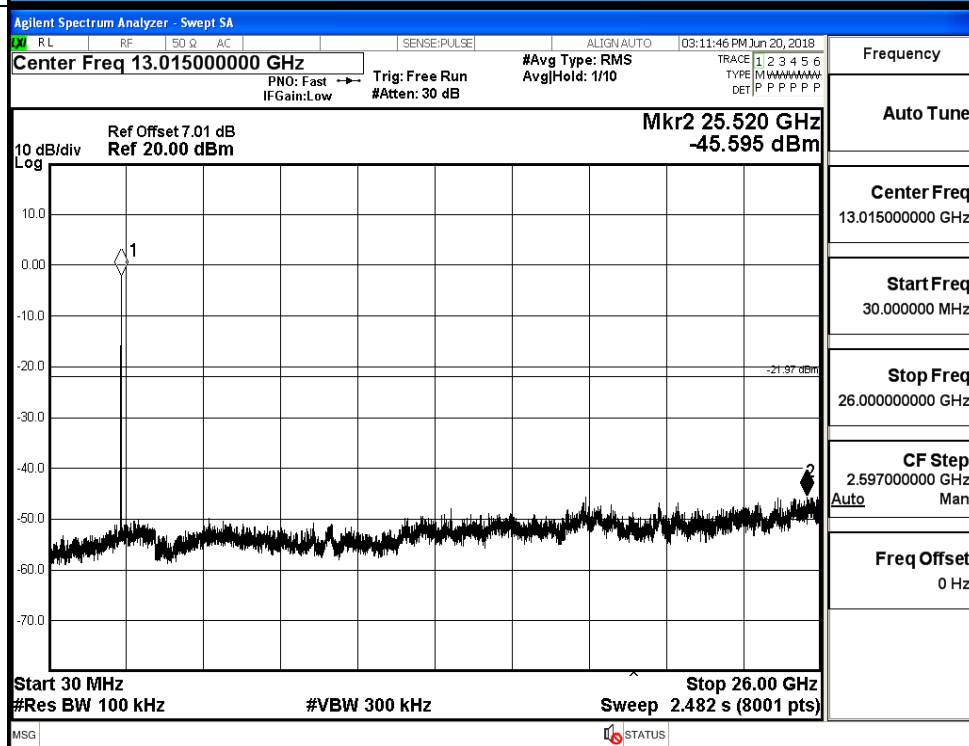


11B_HCH_Graphs_Ant1

Pref/11B/HCH

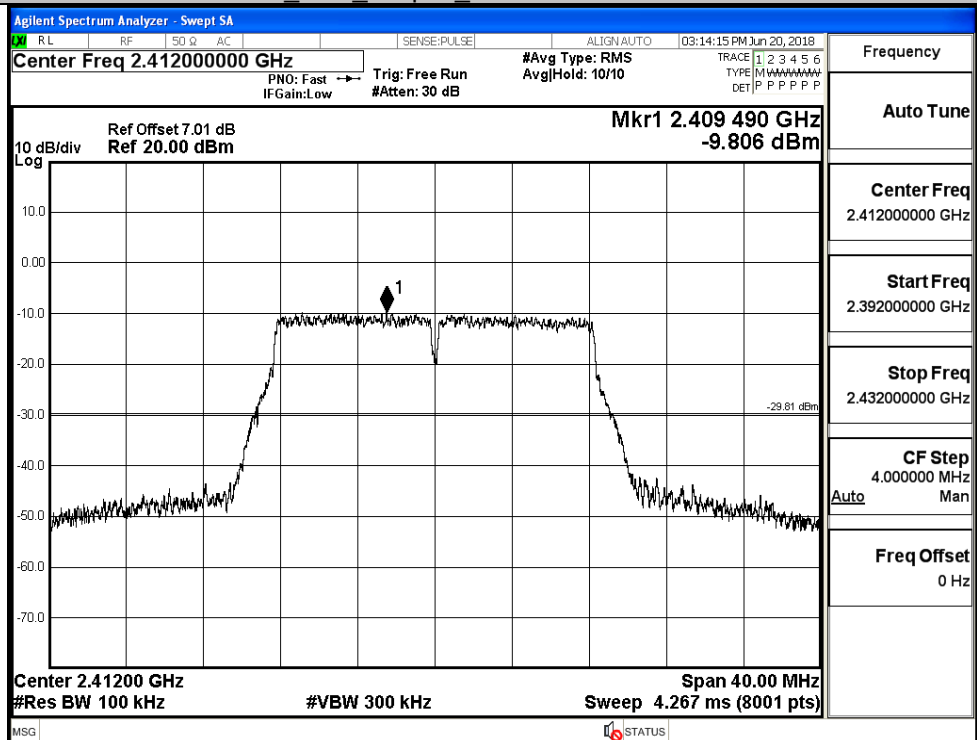


Puw/11B/HCH

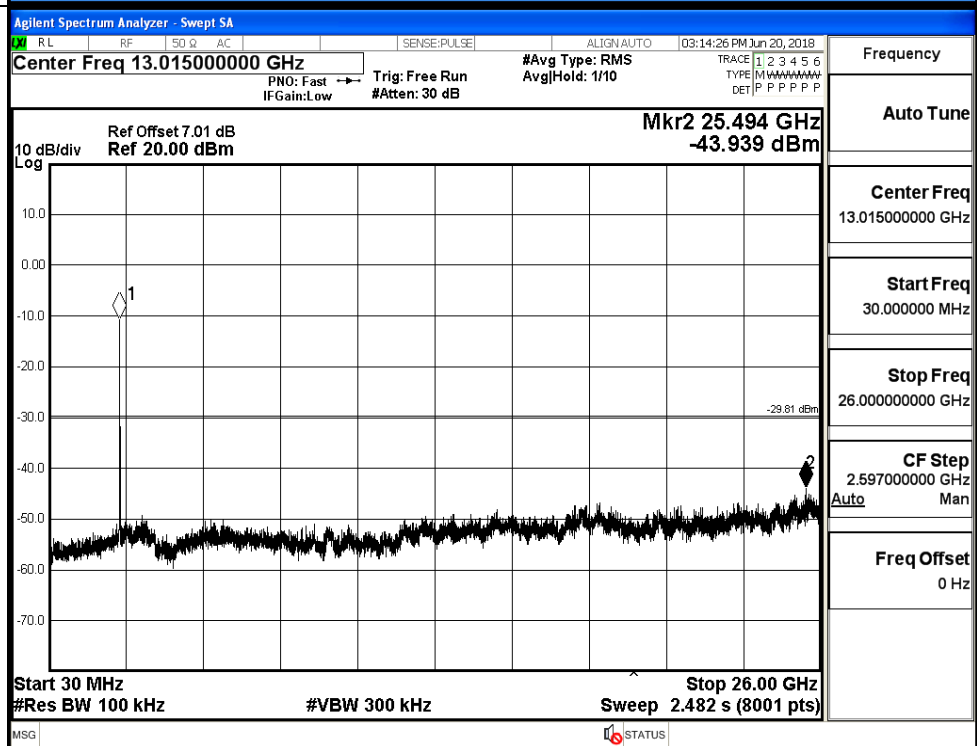


11G LCH Graphs_Ant1

Pref/11G/LCH

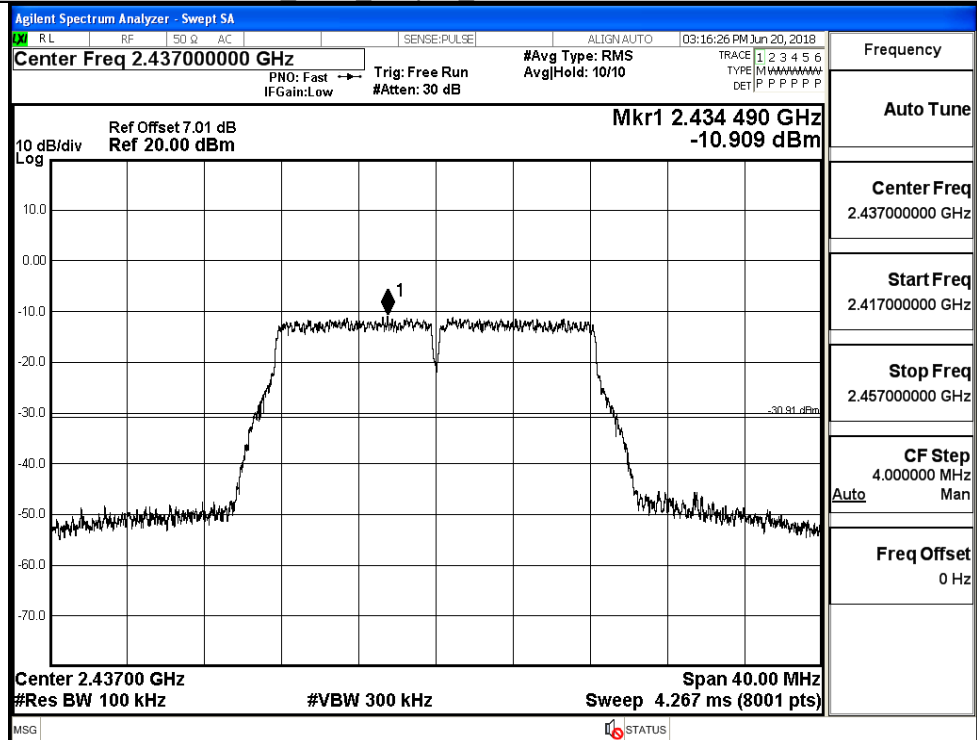


Puw/11G/LCH

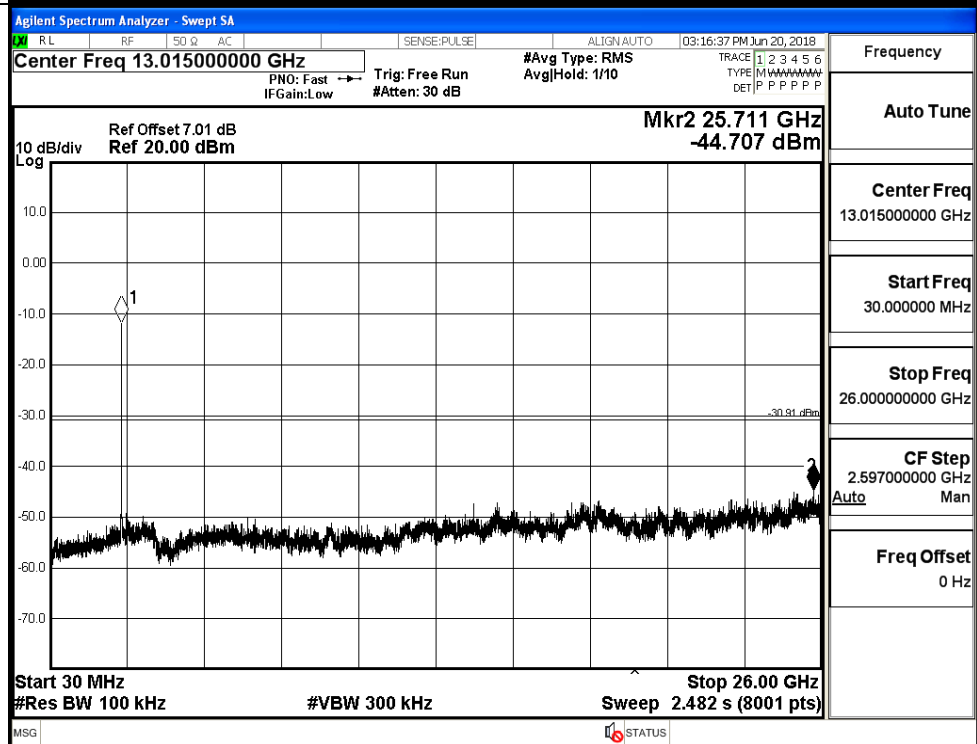


11G MCH Graphs_Ant1

Pref/11G/MCH

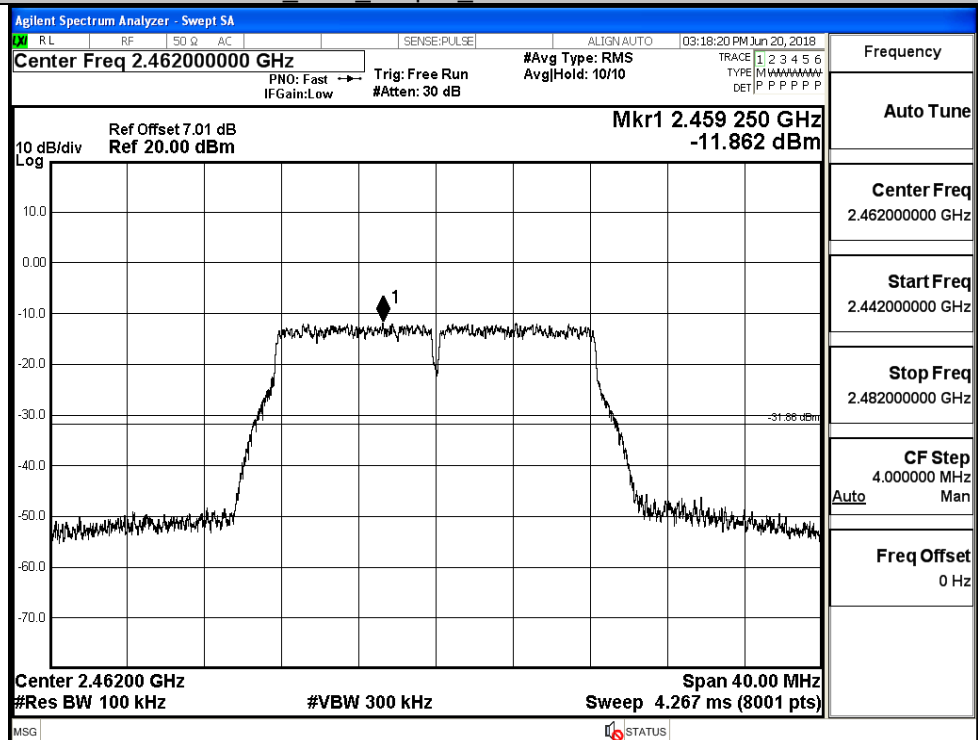


Puw/11G/MCH

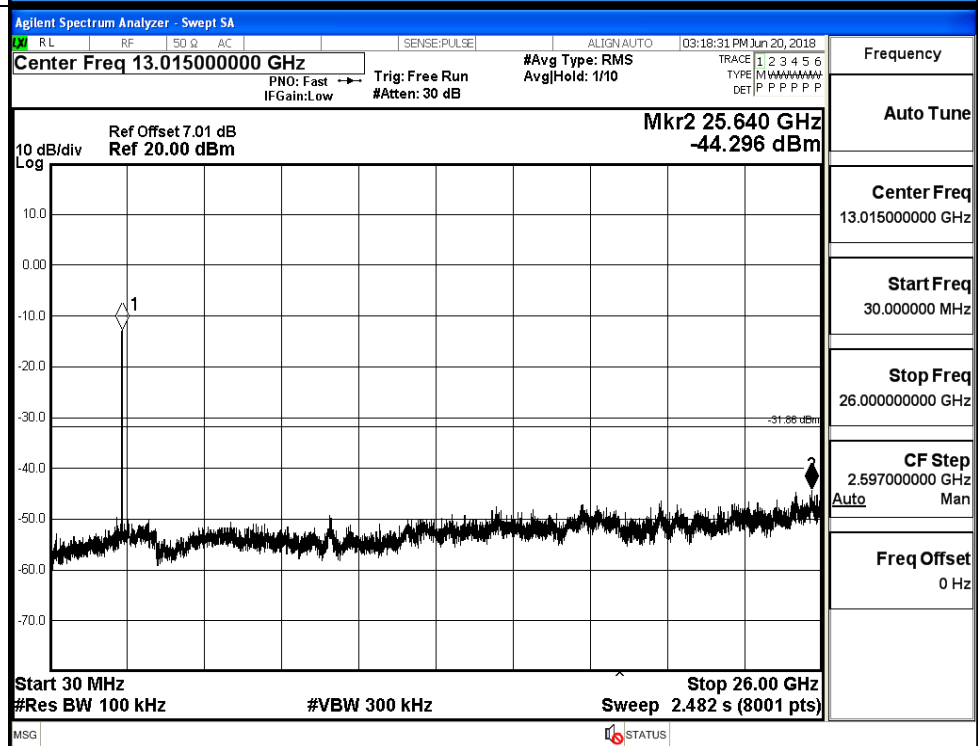


11G HCH Graphs_Ant1

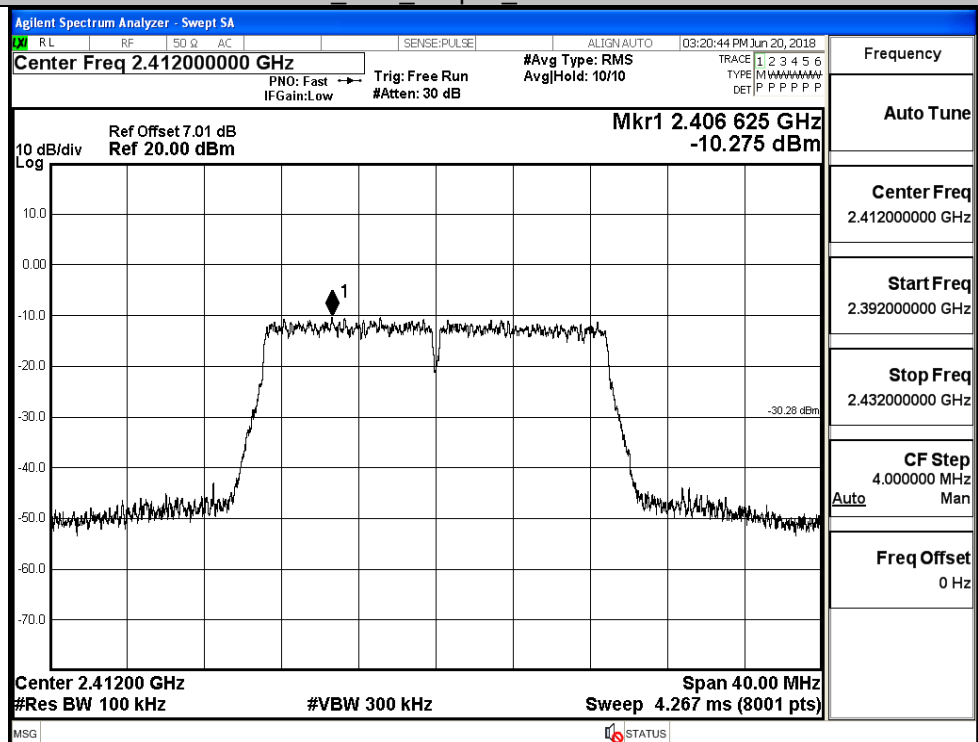
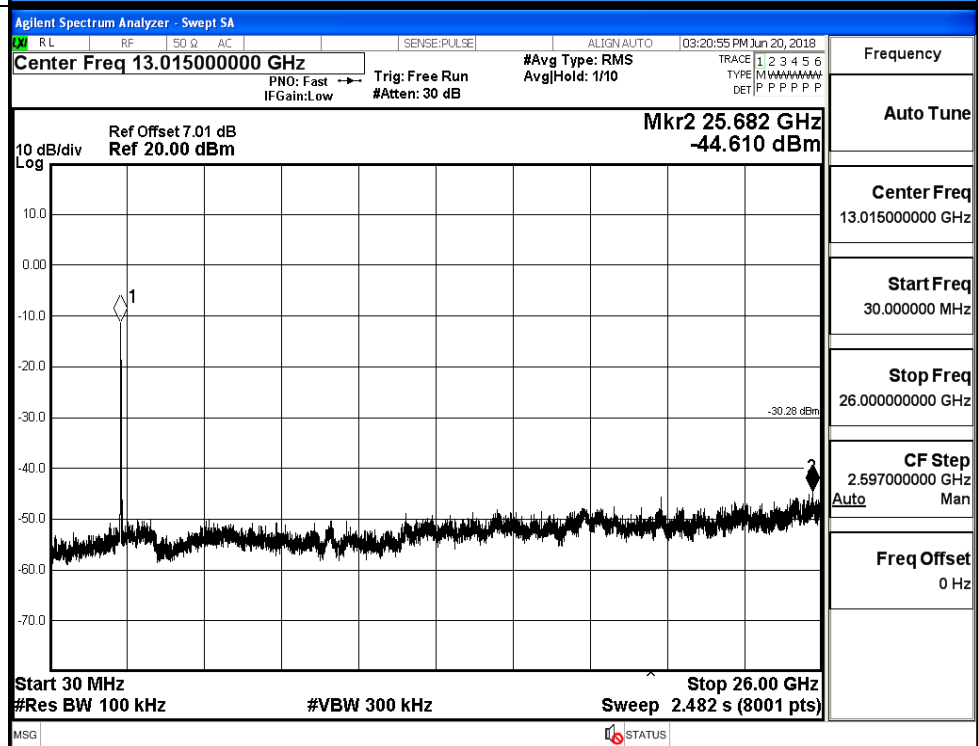
Pref/11G/HCH



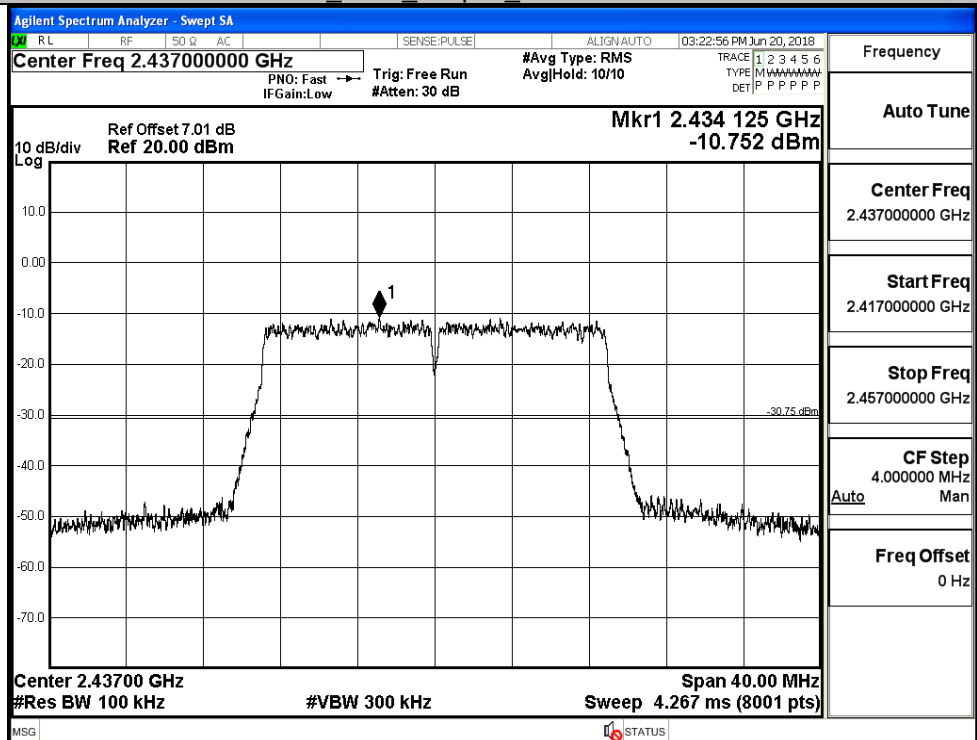
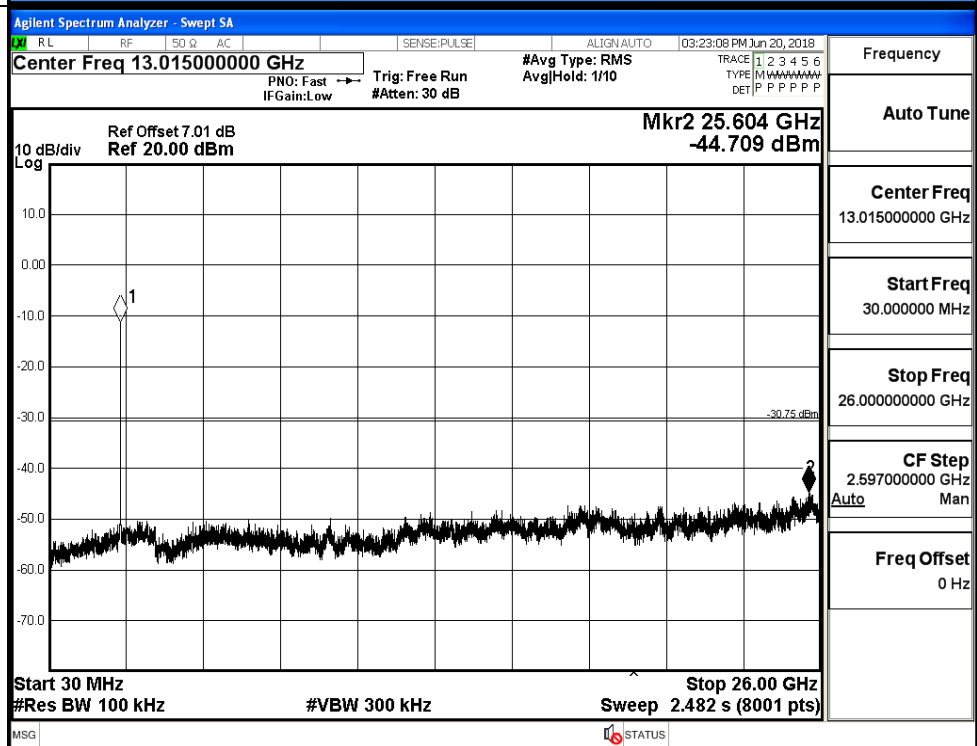
Puw/11G/HCH



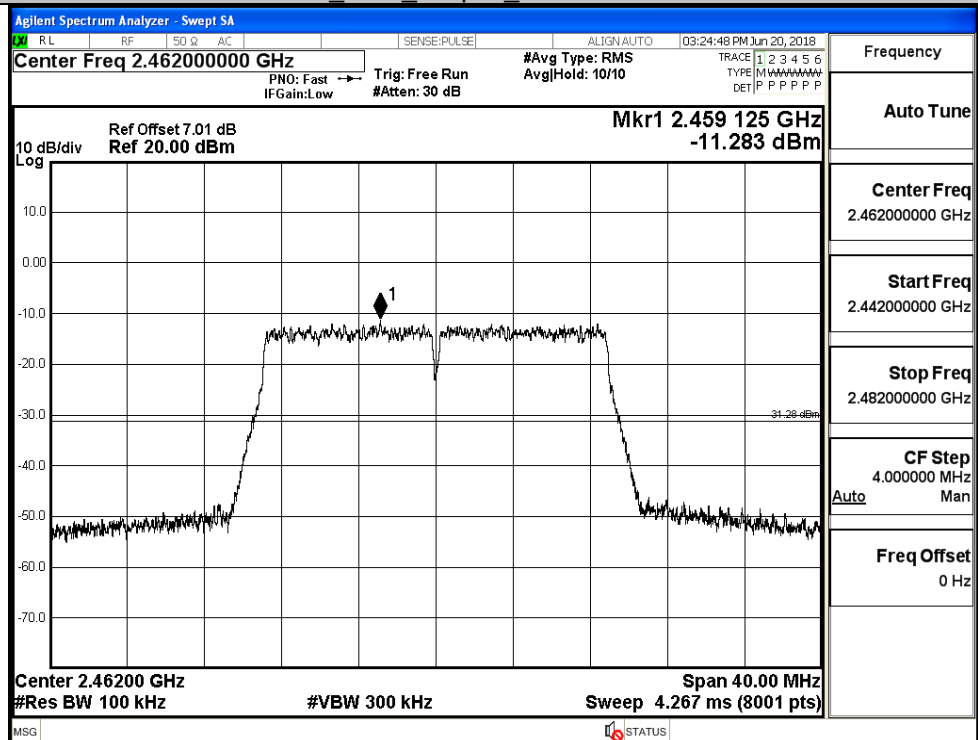
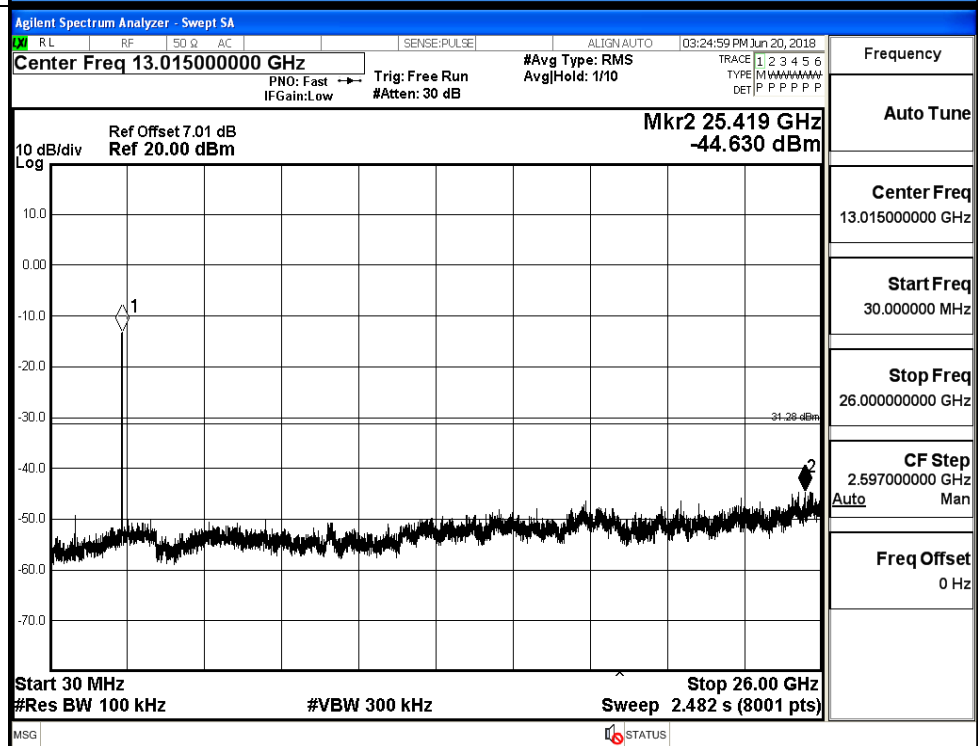
11N20SISO LCH Graphs_Ant1

Pref/11N20SIS
O/LCHPuw/11N20
SISO/LCH

11N20SISO_MCH Graphs_Ant1

Pref/11N20
SISO/MCHPuw/11N20
SISO/MCH

11N20SISO_HCH Graphs_Ant1

Pref/11N20
SISO/HCHPuw/11N20
SISO/HCH

A.6 Band-edge for RF Conducted Emissions

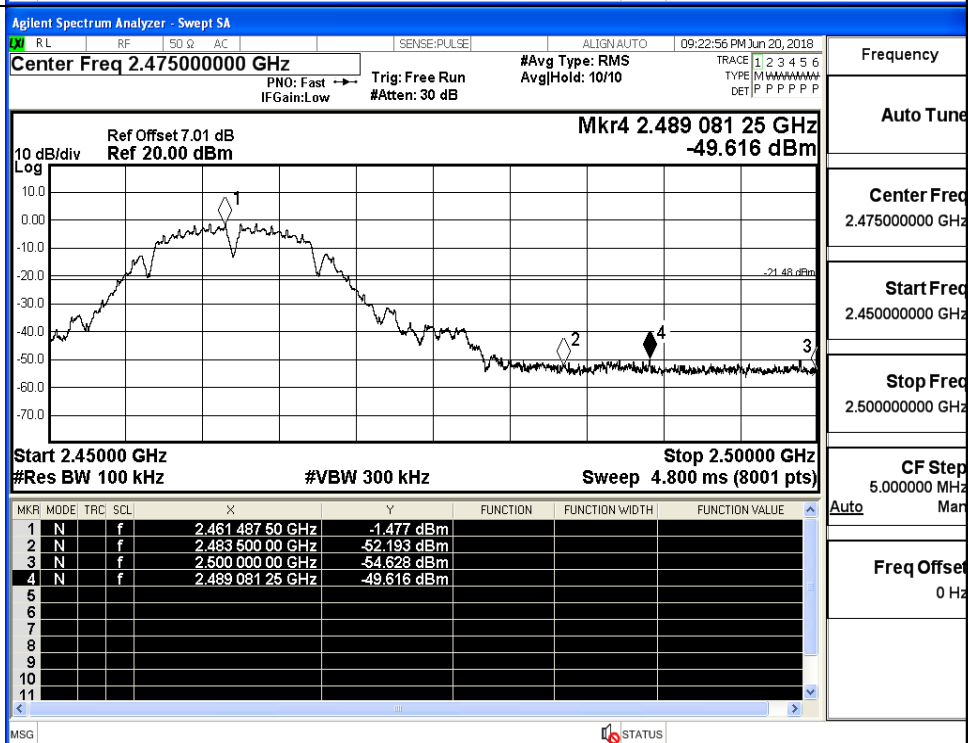
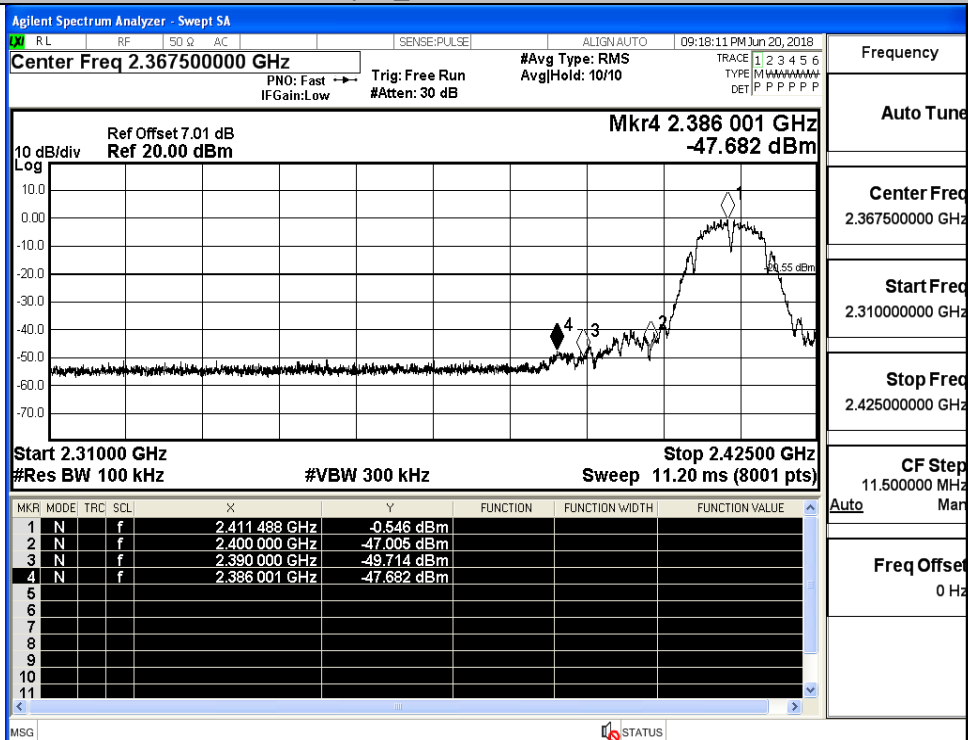
Antenna 0

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.546	-47.682	-20.55	PASS
	HCH	-1.477	-49.616	-21.48	PASS
11G	LCH	-8.576	-46.629	-28.58	PASS
	HCH	-10.962	-50.805	-30.96	PASS
11N20SISO	LCH	-9.601	-49.145	-29.6	PASS
	HCH	-10.349	-50.565	-30.35	PASS

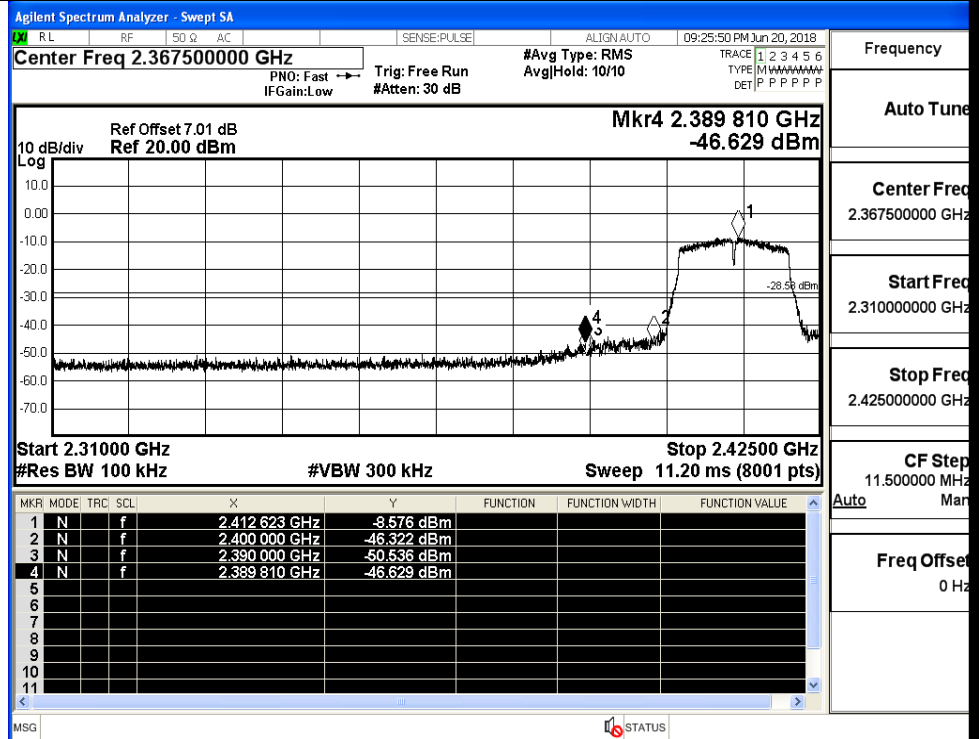
Antenna 1

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-0.882	-50.222	-20.88	PASS
	HCH	-1.876	-50.963	-21.88	PASS
11G	LCH	-9.756	-48.513	-29.76	PASS
	HCH	-11.919	-49.953	-31.92	PASS
11N20SISO	LCH	-10.001	-49.007	-30	PASS
	HCH	-11.256	-49.988	-31.26	PASS

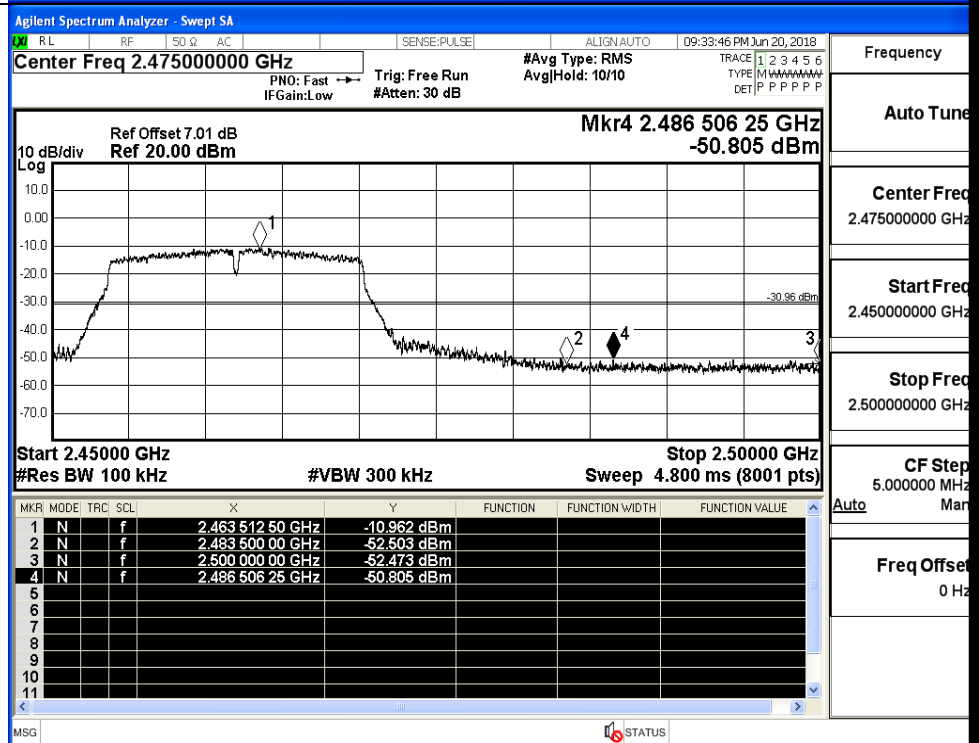
Test Graphs_Ant0



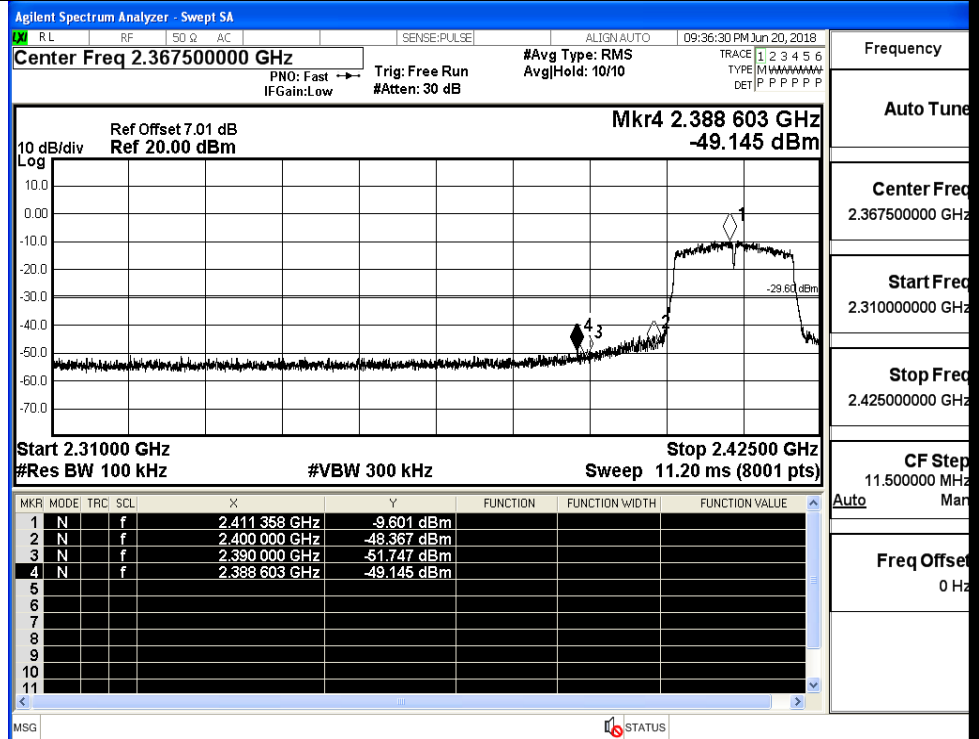
11G/LCH



11G/HCH



11N20SISO/LCH

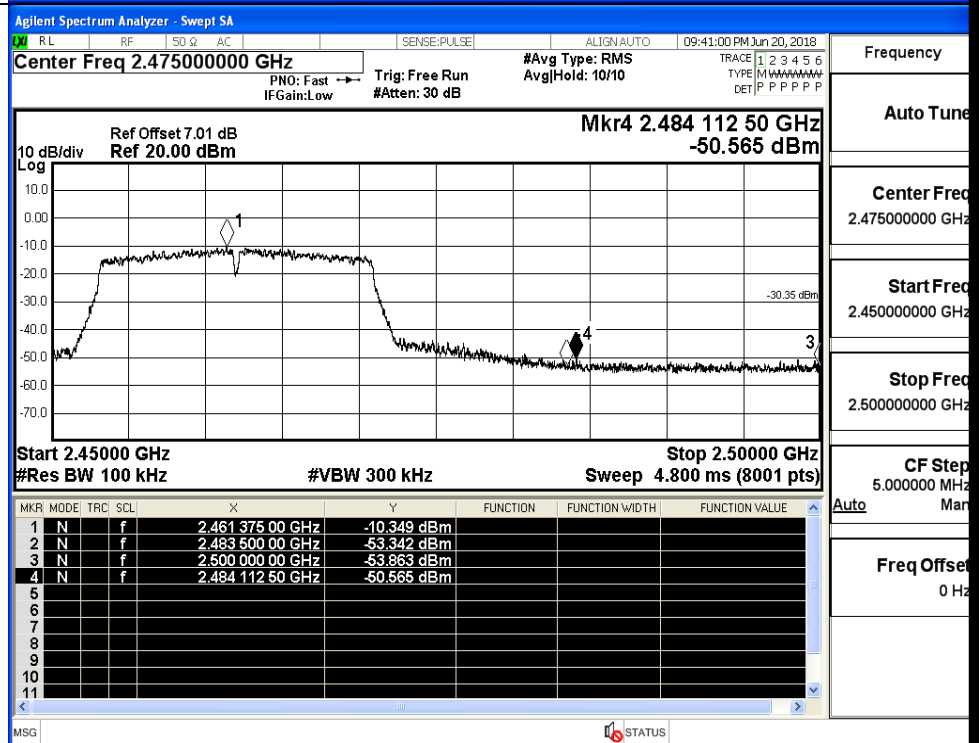


Frequency

Auto Tune

Center Freq
2.367500000 GHzStart Freq
2.310000000 GHzStop Freq
2.425000000 GHzCF Step
11.500000 MHzFreq Offset
0 Hz

11N20SISO/HCH



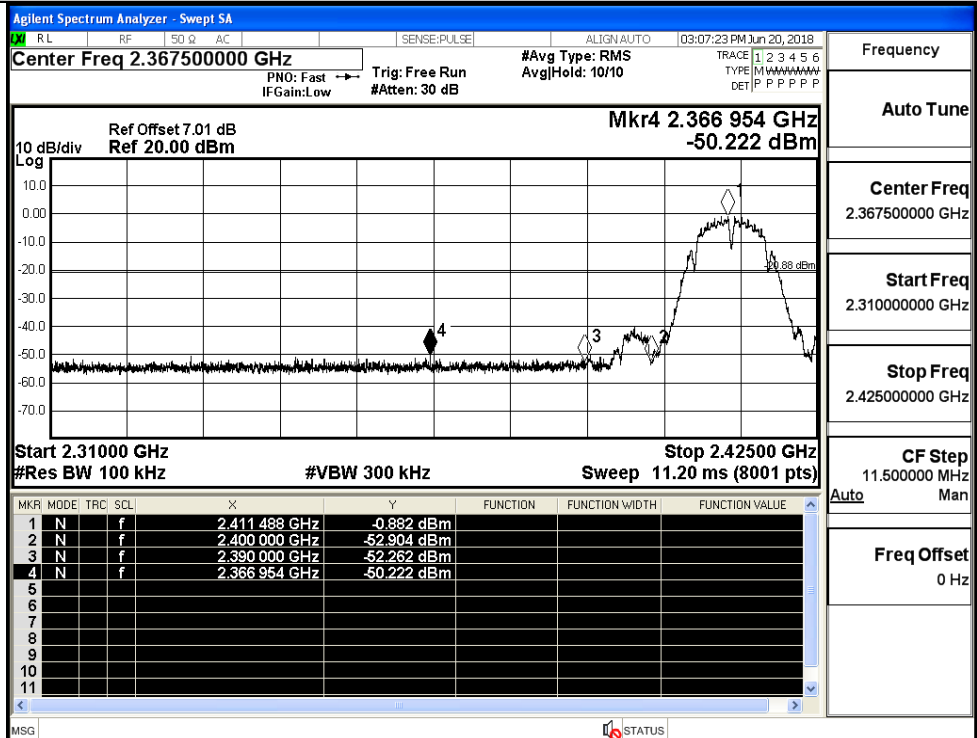
Frequency

Auto Tune

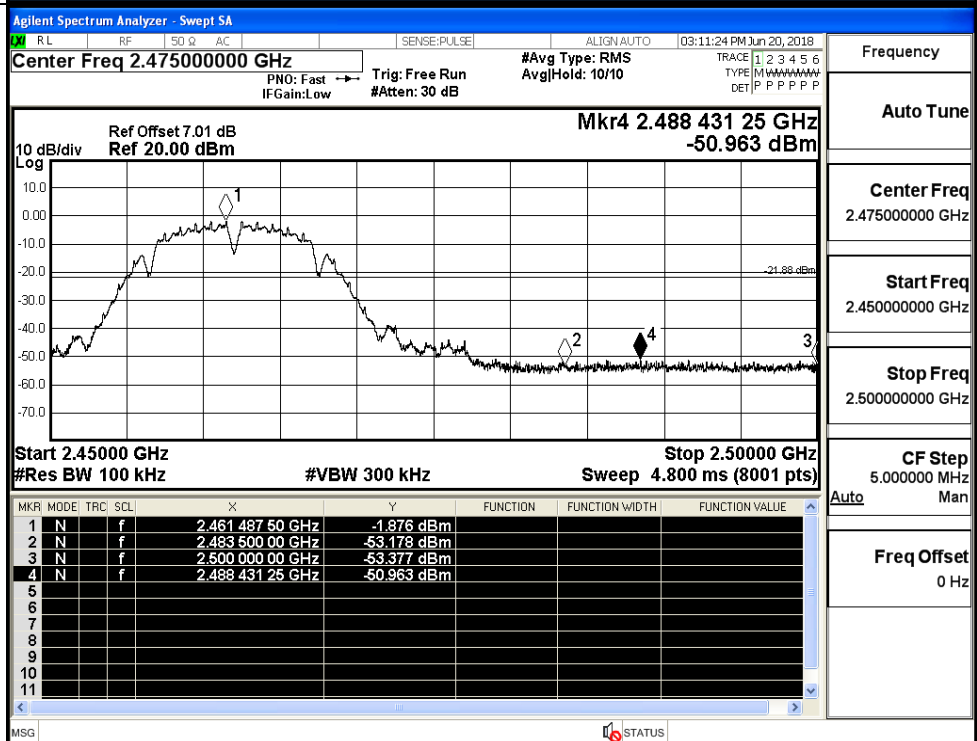
Center Freq
2.475000000 GHzStart Freq
2.450000000 GHzStop Freq
2.500000000 GHzCF Step
5.000000 MHzFreq Offset
0 Hz

Test Graphs_ Ant1

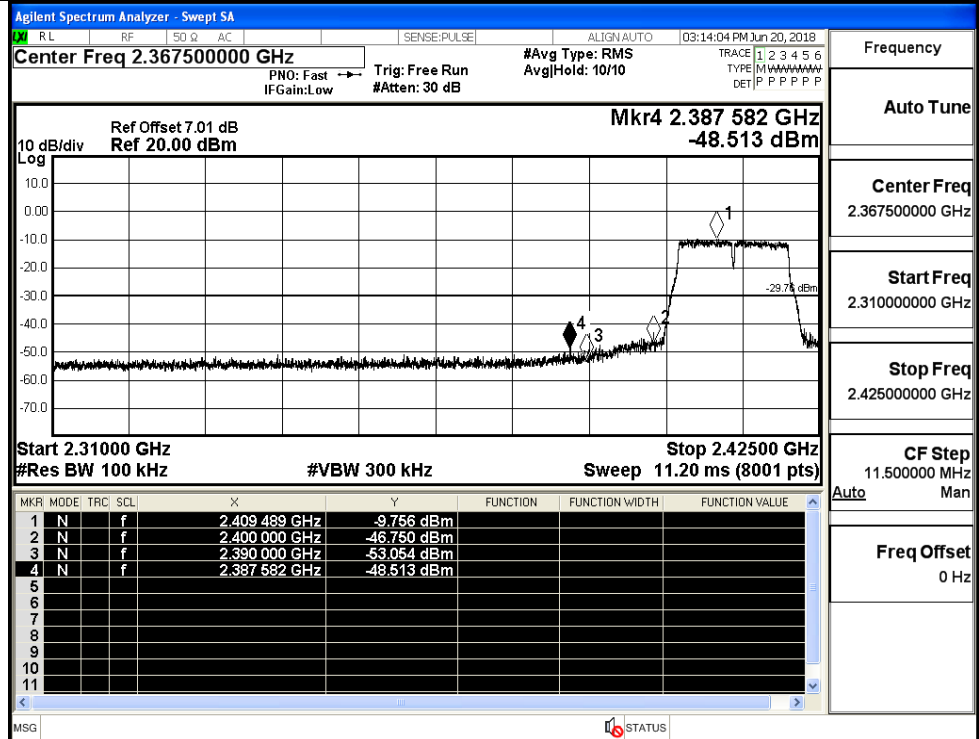
11B/LCH



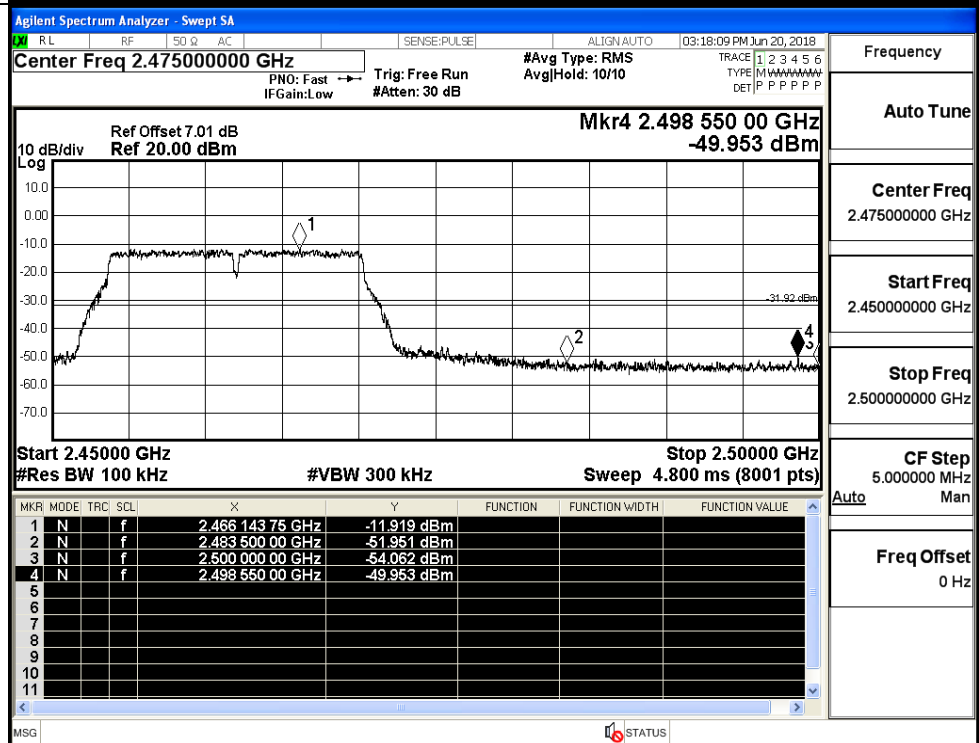
11B/HCH



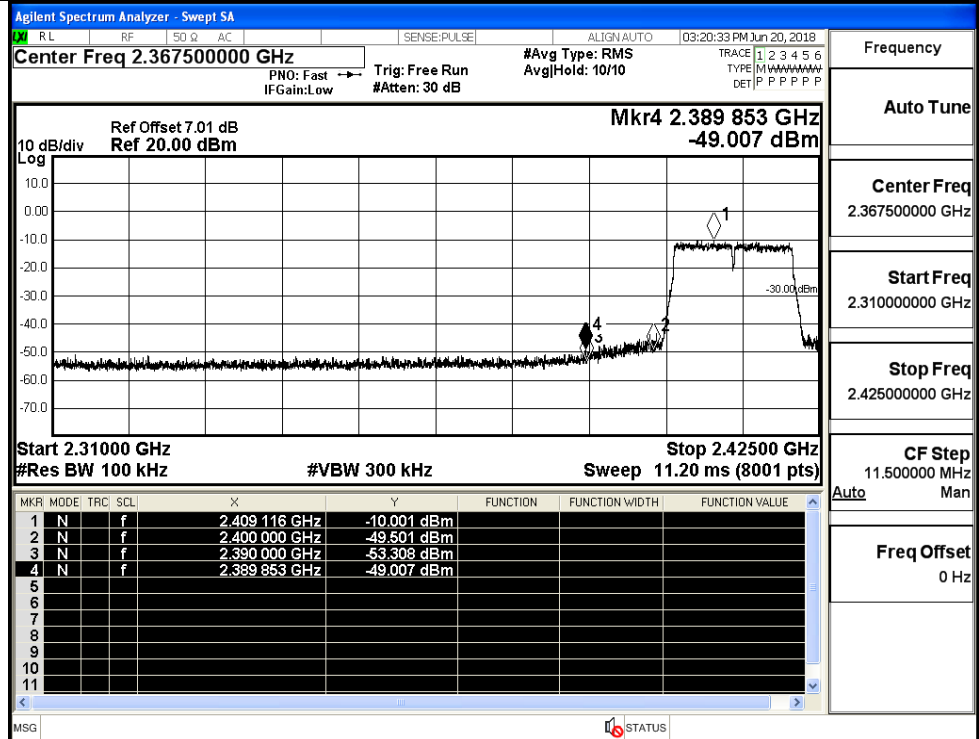
11G/LCH



11G/HCH



11N20SISO/LCH



Frequency

Auto Tune

Center Freq

2.367500000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.425000000 GHz

CF Step

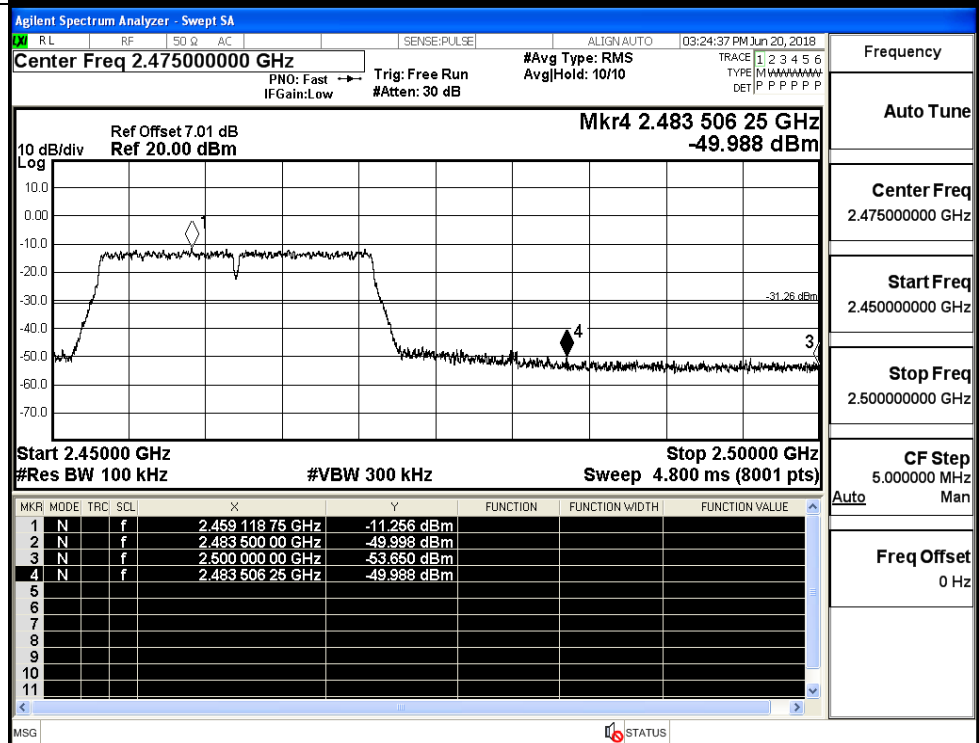
11.500000 MHz

Auto

Freq Offset

0 Hz

11N20SISO/HCH



Frequency

Auto Tune

Center Freq

2.475000000 GHz

Start Freq

2.450000000 GHz

Stop Freq

2.500000000 GHz

CF Step

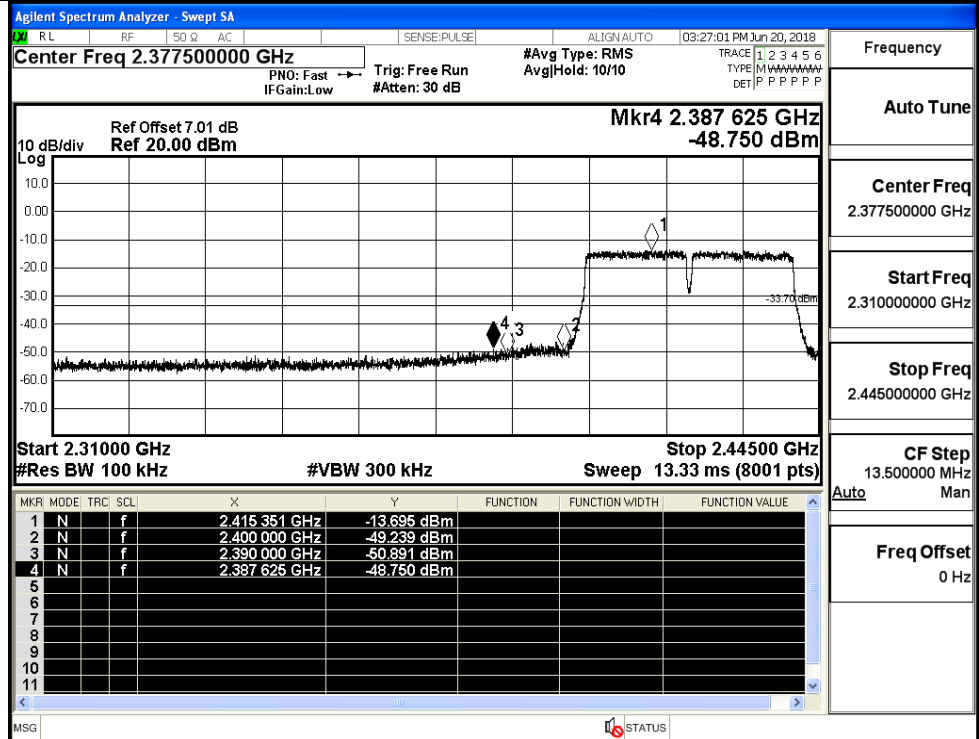
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Auto

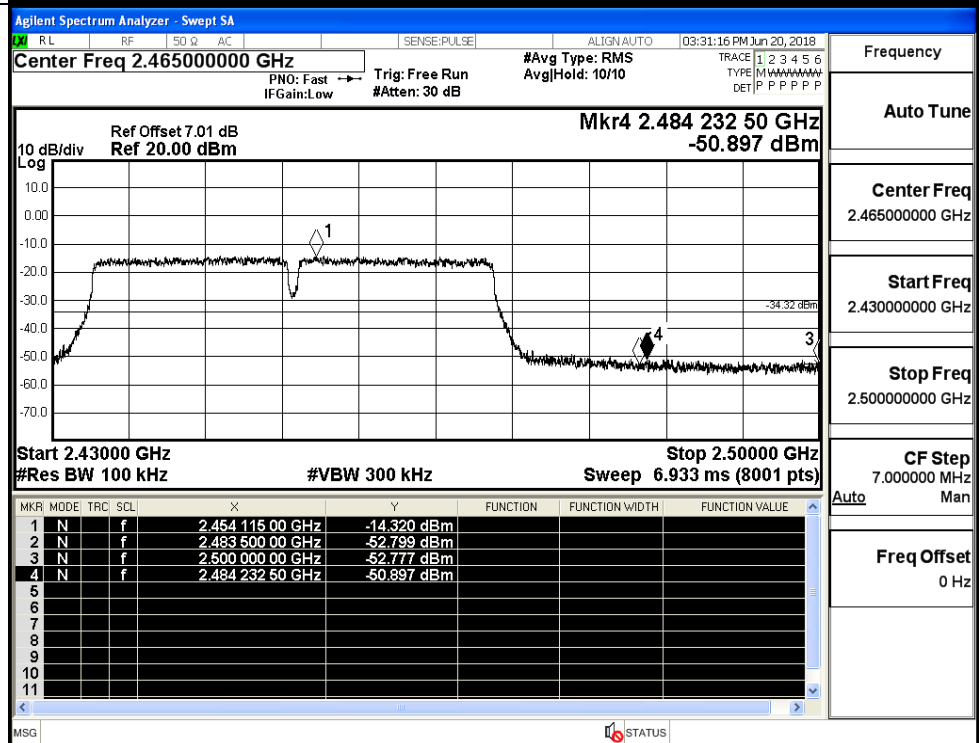
Freq Offset

0 Hz

11N40SISO/LCH



11N40SISO/HCH



A.7 Restrict-band band-edge measurements

Antenna 0

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant0	2310.0	-42.672	2.000	0	54.556	PEAK	74	PASS
	2412	Ant0	2310.0	-54.824	2.000	0	42.404	AV	54	PASS
	2412	Ant0	2390.0	-39.757	2.000	0	57.471	PEAK	74	PASS
	2412	Ant0	2390.0	-48.642	2.000	0	48.586	AV	54	PASS
	2462	Ant0	2483.5	-43.498	2.000	0	53.730	PEAK	74	PASS
	2462	Ant0	2483.5	-53.877	2.000	0	43.351	AV	54	PASS
	2462	Ant0	2500.0	-43.043	2.000	0	54.185	PEAK	74	PASS
	2462	Ant0	2500.0	-54.103	2.000	0	43.125	AV	54	PASS
11G	2412	Ant0	2310.0	-44.702	2.000	0	52.526	PEAK	74	PASS
	2412	Ant0	2310.0	-54.843	2.000	0	42.385	AV	54	PASS
	2412	Ant0	2390.0	-34.474	2.000	0	62.754	PEAK	74	PASS
	2412	Ant0	2390.0	-50.709	2.000	0	46.519	AV	54	PASS
	2462	Ant0	2483.5	-44.190	2.000	0	53.038	PEAK	74	PASS
	2462	Ant0	2483.5	-53.471	2.000	0	43.757	AV	54	PASS
	2462	Ant0	2500.0	-43.203	2.000	0	54.025	PEAK	74	PASS
	2462	Ant0	2500.0	-54.081	2.000	0	43.147	AV	54	PASS
11N20 SISO	2412	Ant0	2310.0	-45.639	2.000	0	51.589	PEAK	74	PASS
	2412	Ant0	2310.0	-54.838	2.000	0	42.390	AV	54	PASS
	2412	Ant0	2390.0	-38.530	2.000	0	58.698	PEAK	74	PASS
	2412	Ant0	2390.0	-52.779	2.000	0	44.449	AV	54	PASS
	2462	Ant0	2483.5	-42.638	2.000	0	54.590	PEAK	74	PASS
	2462	Ant0	2483.5	-53.385	2.000	0	43.843	AV	54	PASS
	2462	Ant0	2500.0	-44.186	2.000	0	53.042	PEAK	74	PASS
	2462	Ant0	2500.0	-54.072	2.000	0	43.156	AV	54	PASS

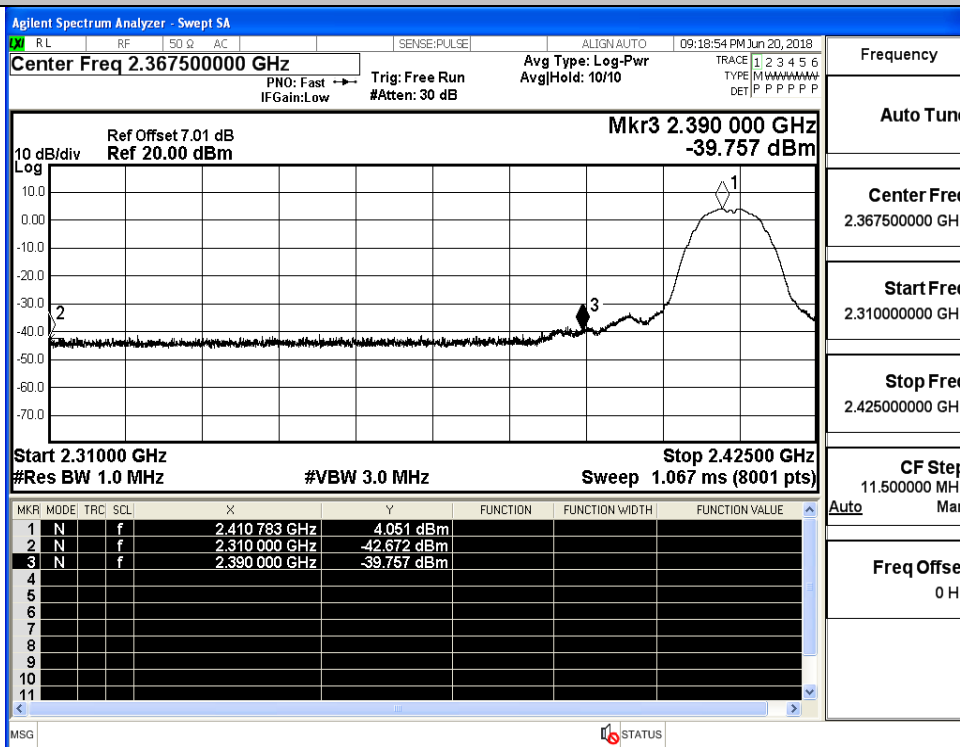
Antenna 1

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-45.114	2.000	0	52.114	PEAK	74	PASS
	2412	Ant1	2310.0	-54.922	2.000	0	42.306	AV	54	PASS
	2412	Ant1	2390.0	-40.836	2.000	0	56.392	PEAK	74	PASS
	2412	Ant1	2390.0	-54.403	2.000	0	42.825	AV	54	PASS
	2462	Ant1	2483.5	-43.111	2.000	0	54.117	PEAK	74	PASS
	2462	Ant1	2483.5	-53.962	2.000	0	43.266	AV	54	PASS
	2462	Ant1	2500.0	-43.335	2.000	0	53.893	PEAK	74	PASS
	2462	Ant1	2500.0	-54.144	2.000	0	43.084	AV	54	PASS
11G	2412	Ant1	2310.0	-45.586	2.000	0	51.642	PEAK	74	PASS
	2412	Ant1	2310.0	-54.907	2.000	0	42.321	AV	54	PASS
	2412	Ant1	2390.0	-45.015	2.000	0	52.213	PEAK	74	PASS
	2412	Ant1	2390.0	-52.303	2.000	0	44.925	AV	54	PASS
	2462	Ant1	2483.5	-42.524	2.000	0	54.704	PEAK	74	PASS
	2462	Ant1	2483.5	-53.706	2.000	0	43.522	AV	54	PASS
	2462	Ant1	2500.0	-43.811	2.000	0	53.417	PEAK	74	PASS
	2462	Ant1	2500.0	-54.032	2.000	0	43.196	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.370	2.000	0	52.858	PEAK	74	PASS
	2412	Ant1	2310.0	-54.877	2.000	0	42.351	AV	54	PASS
	2412	Ant1	2390.0	-41.267	2.000	0	55.961	PEAK	74	PASS
	2412	Ant1	2390.0	-53.255	2.000	0	43.973	AV	54	PASS
	2462	Ant1	2483.5	-43.781	2.000	0	53.447	PEAK	74	PASS
	2462	Ant1	2483.5	-53.463	2.000	0	43.765	AV	54	PASS
	2462	Ant1	2500.0	-42.893	2.000	0	54.335	PEAK	74	PASS
	2462	Ant1	2500.0	-53.981	2.000	0	43.247	AV	54	PASS

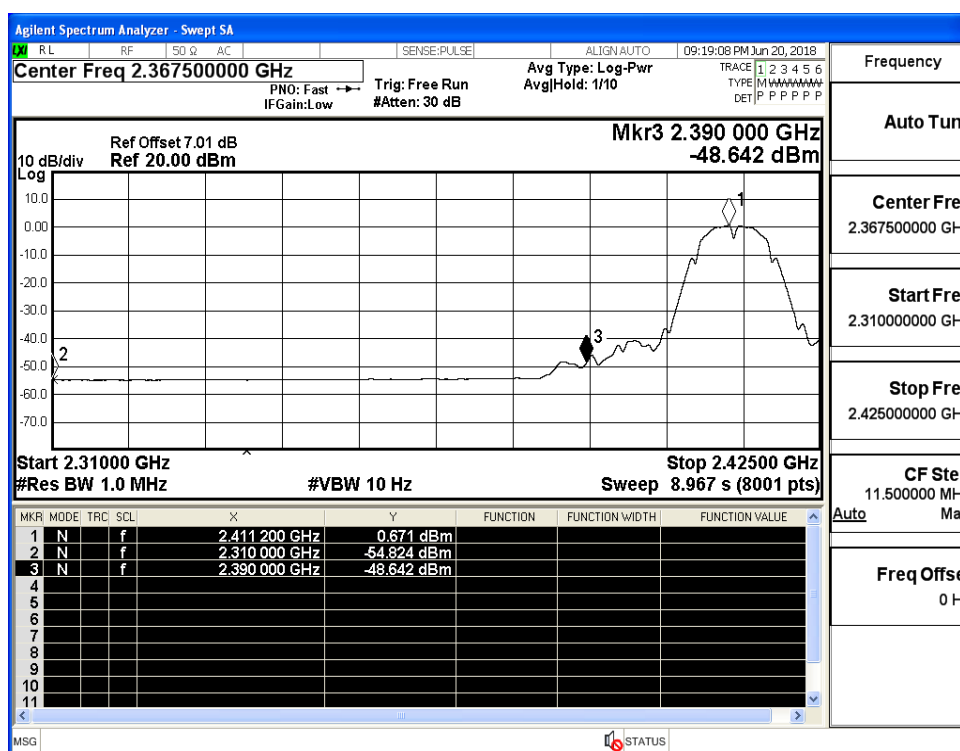
Antenna 0 + Antenna 1

Test Mode	Test Channel	Freq.	Power [dBm]			Directional Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
			Ant0	Ant1	Sum						
11N20 SISO	2412	2310.0	-45.639	-44.370	-41.948	2.000	0	55.280	PEAK	74	PASS
	2412	2310.0	-54.838	-54.877	-51.847	2.000	0	45.381	AV	54	PASS
	2412	2390.0	-38.530	-41.267	-36.676	2.000	0	60.552	PEAK	74	PASS
	2412	2390.0	-52.779	-53.255	-50.000	2.000	0	47.228	AV	54	PASS
	2462	2483.5	-42.638	-43.781	-40.162	2.000	0	57.066	PEAK	74	PASS
	2462	2483.5	-53.385	-53.463	-50.414	2.000	0	46.814	AV	54	PASS
	2462	2500.0	-44.186	-42.893	-40.481	2.000	0	56.747	PEAK	74	PASS
	2462	2500.0	-54.072	-53.981	-51.016	2.000	0	46.212	AV	54	PASS

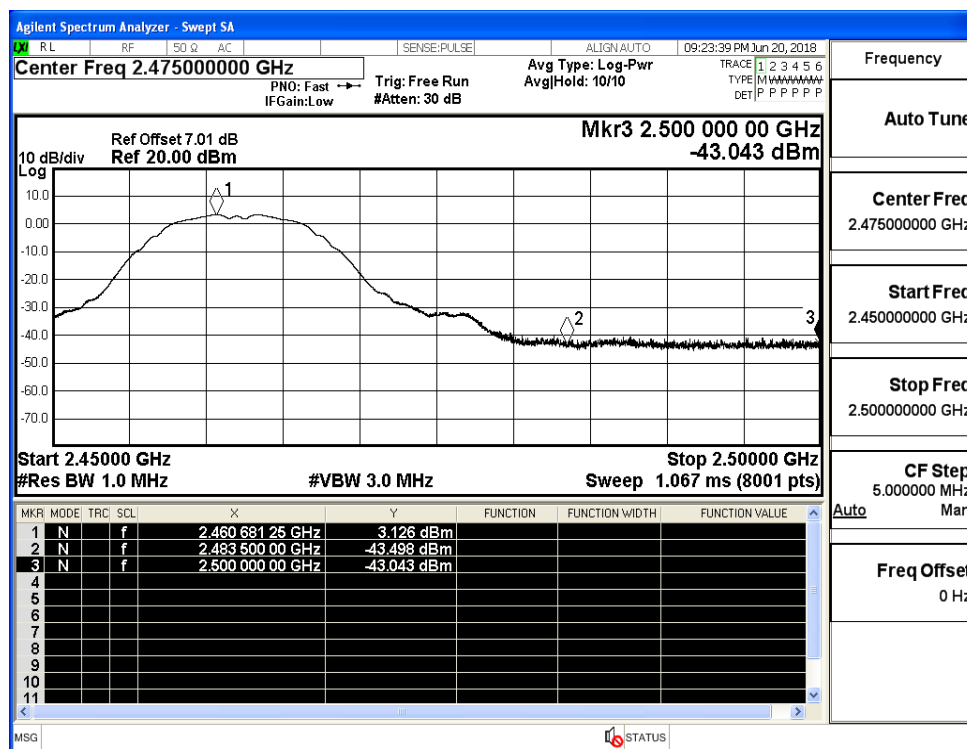
Restrict-band band-edge measurements_11B_2412_Ant0_PEAK



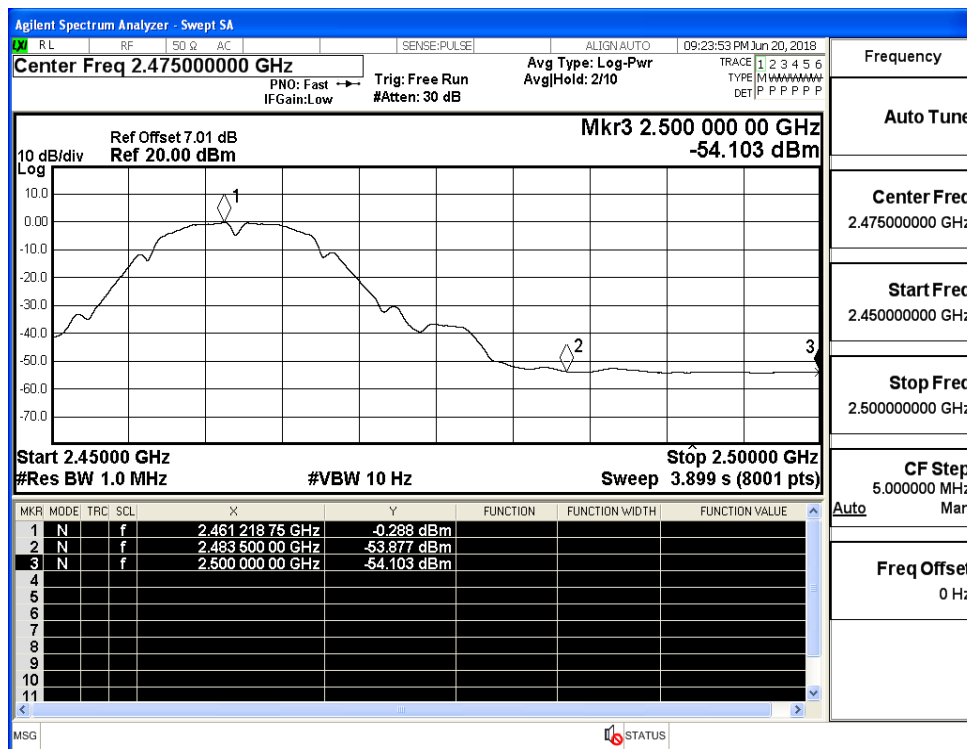
Restrict-band band-edge measurements_11B_2412_Ant0_AV



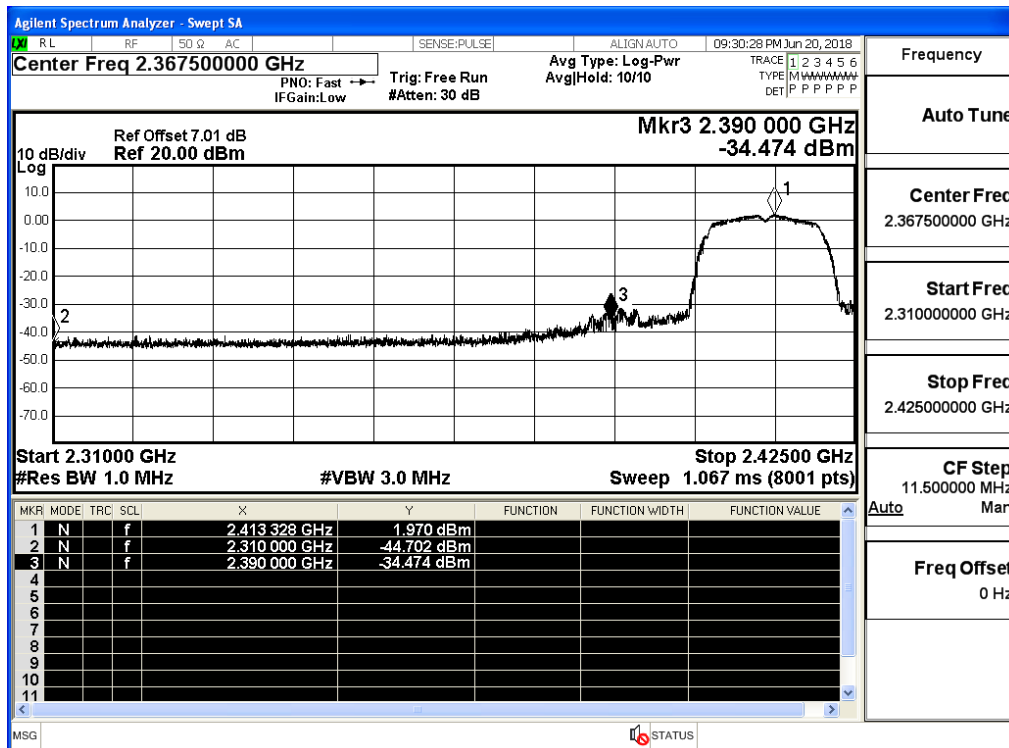
Restrict-band band-edge measurements_11B_2462_Ant0_PEAK



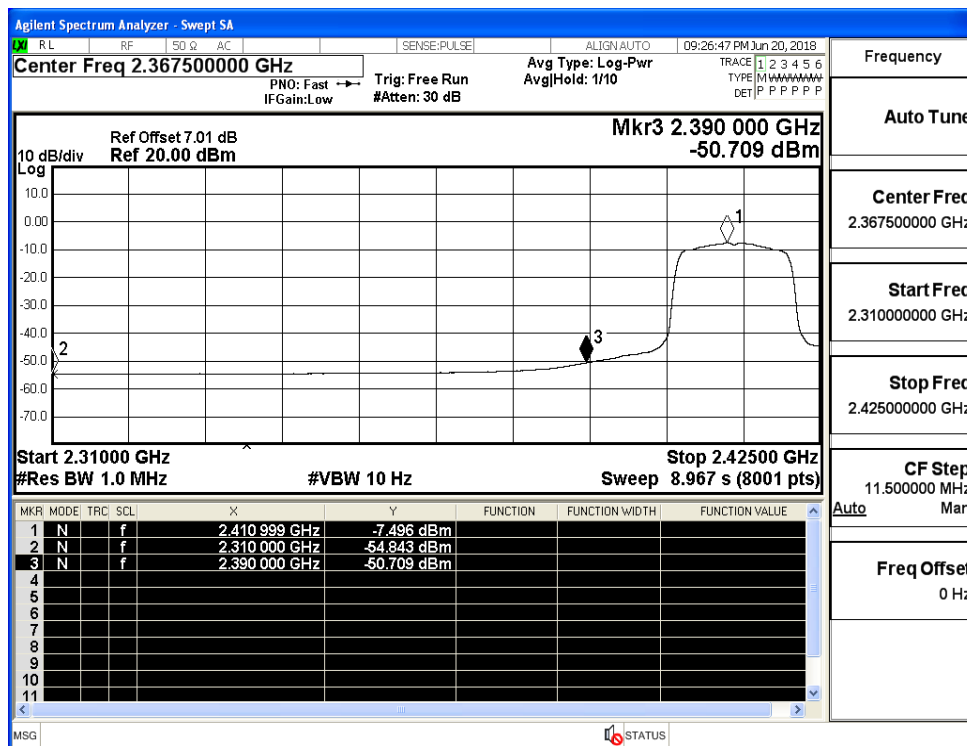
Restrict-band band-edge measurements_11B_2462_Ant0_AV



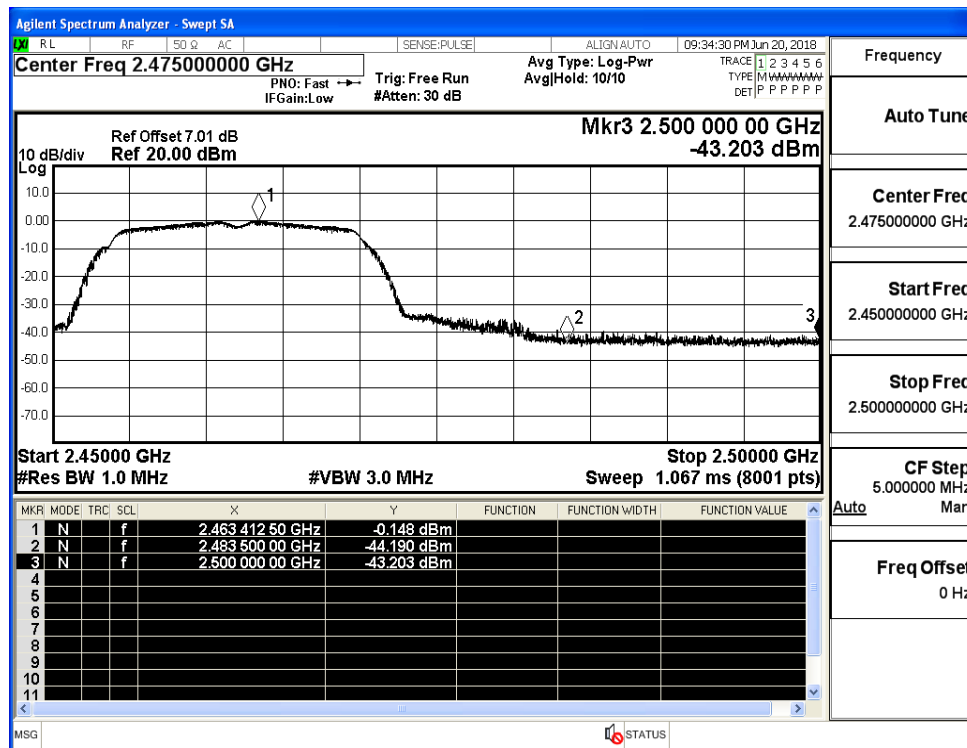
Restrict-band band-edge measurements_11G_2412_Ant0_PEAK



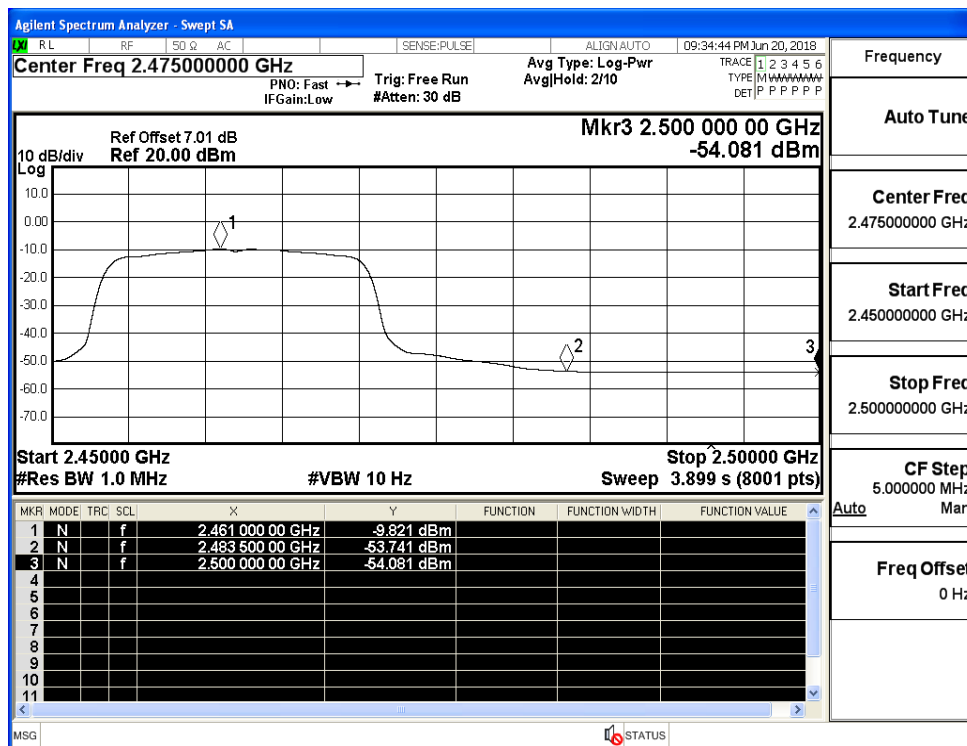
Restrict-band band-edge measurements_11G_2412_Ant0_AV



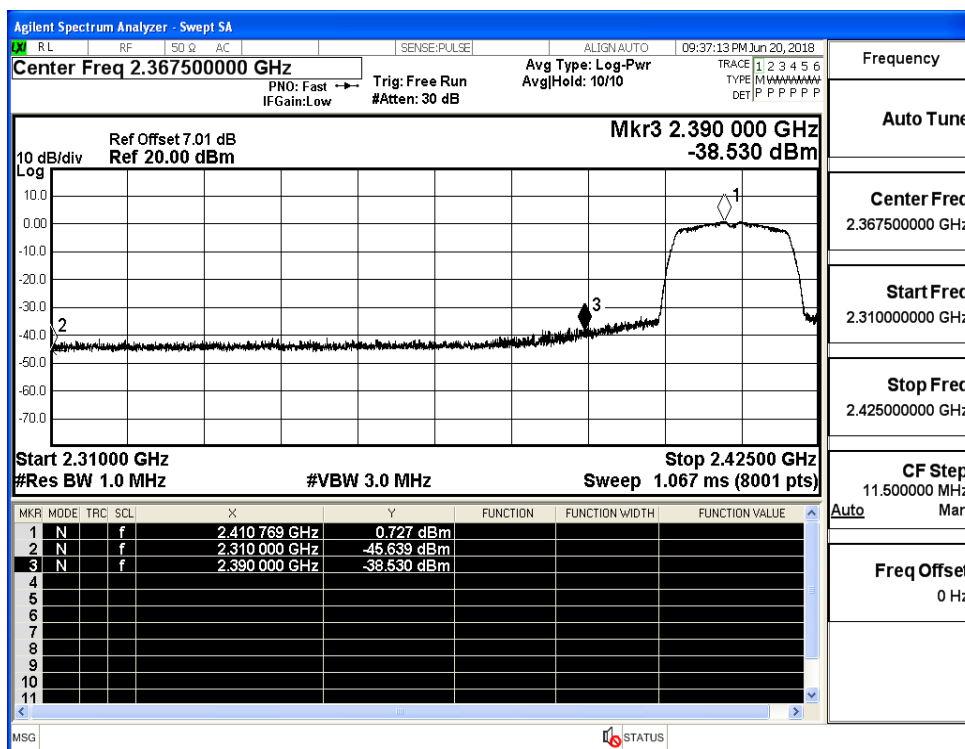
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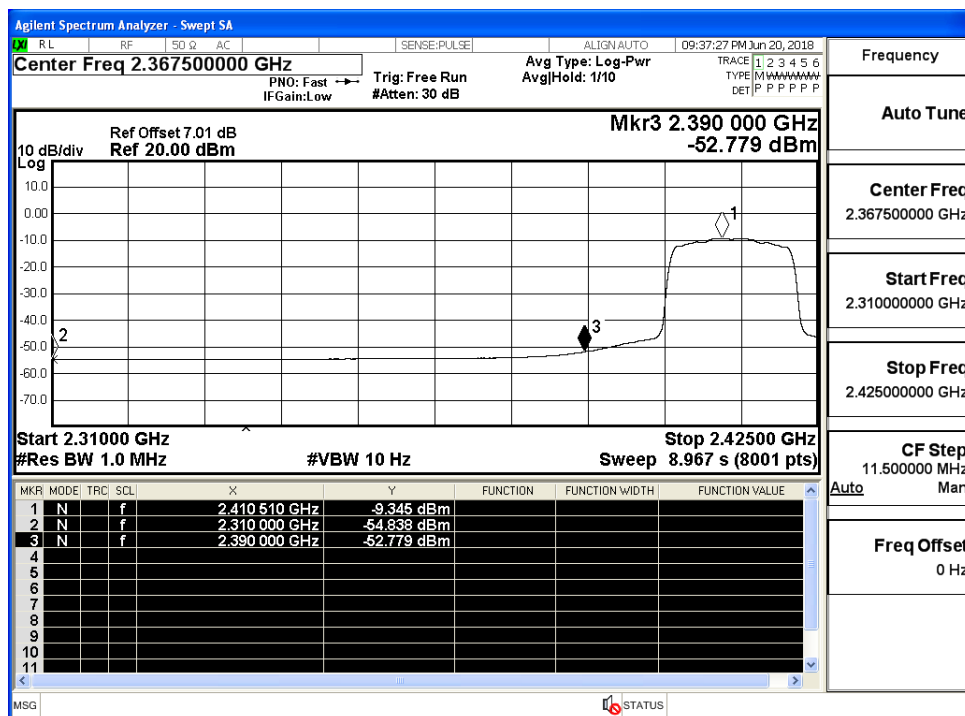
Restrict-band band-edge measurements_11G_2462_Ant0_AV



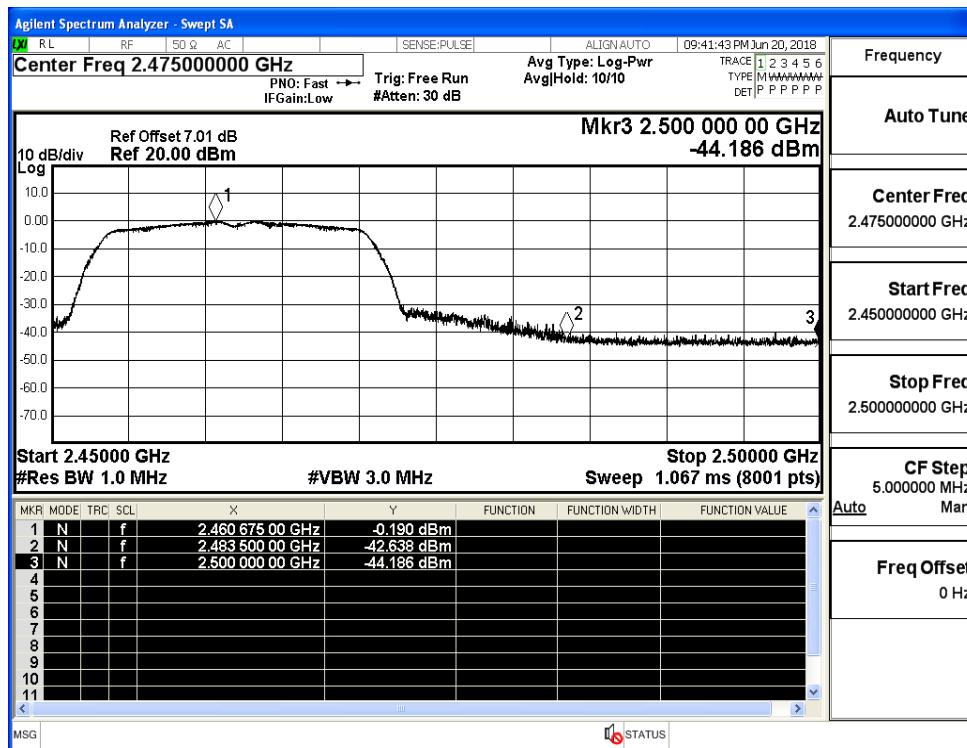
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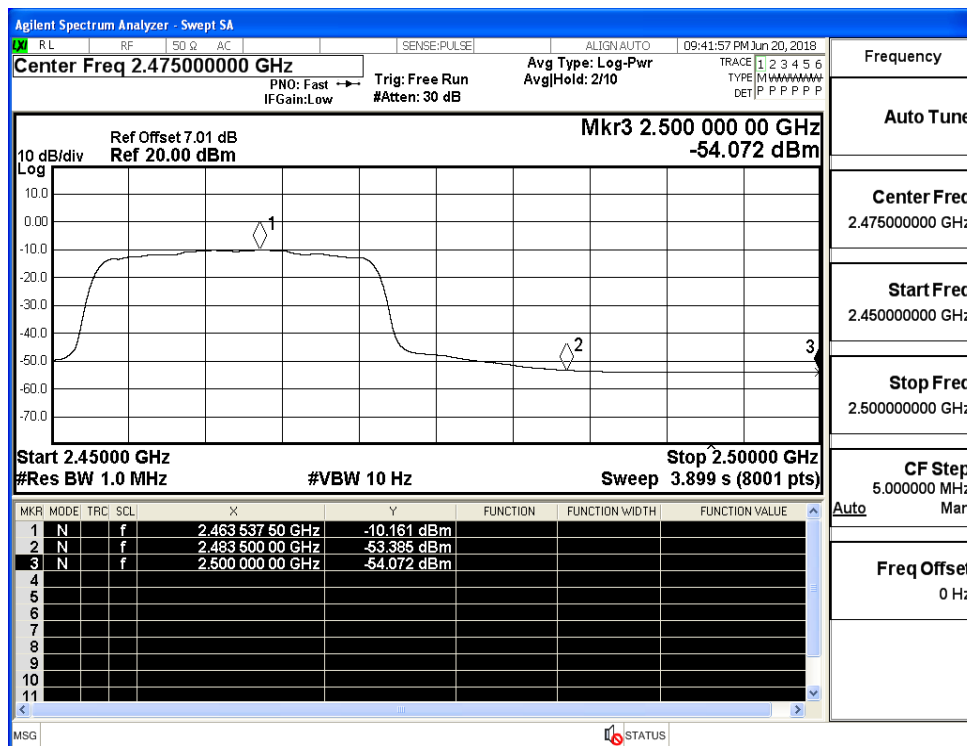
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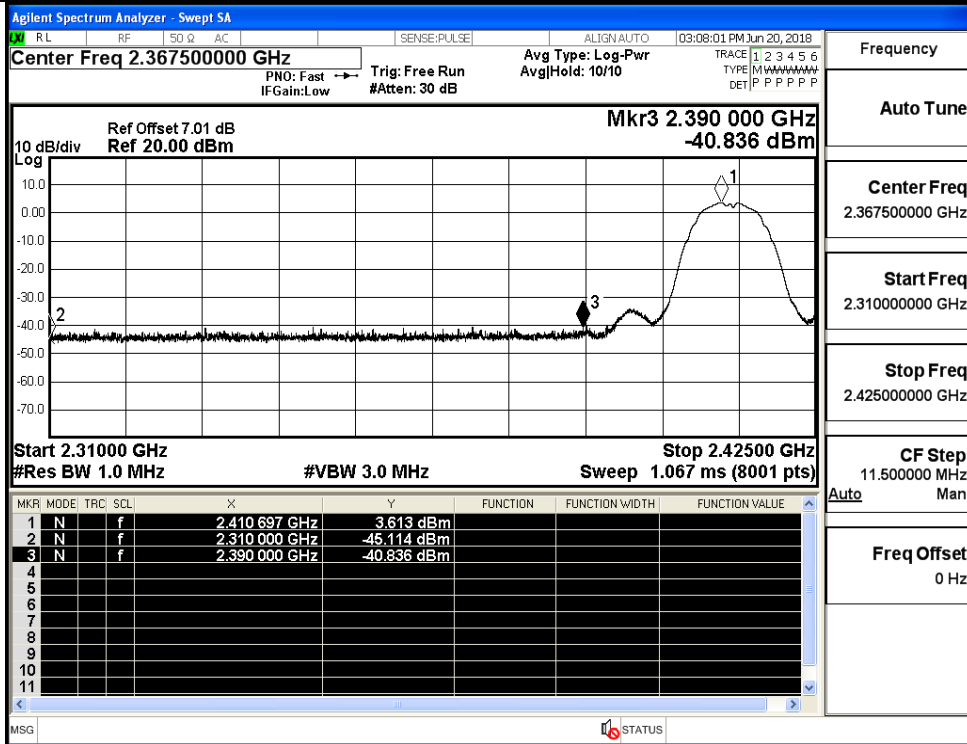
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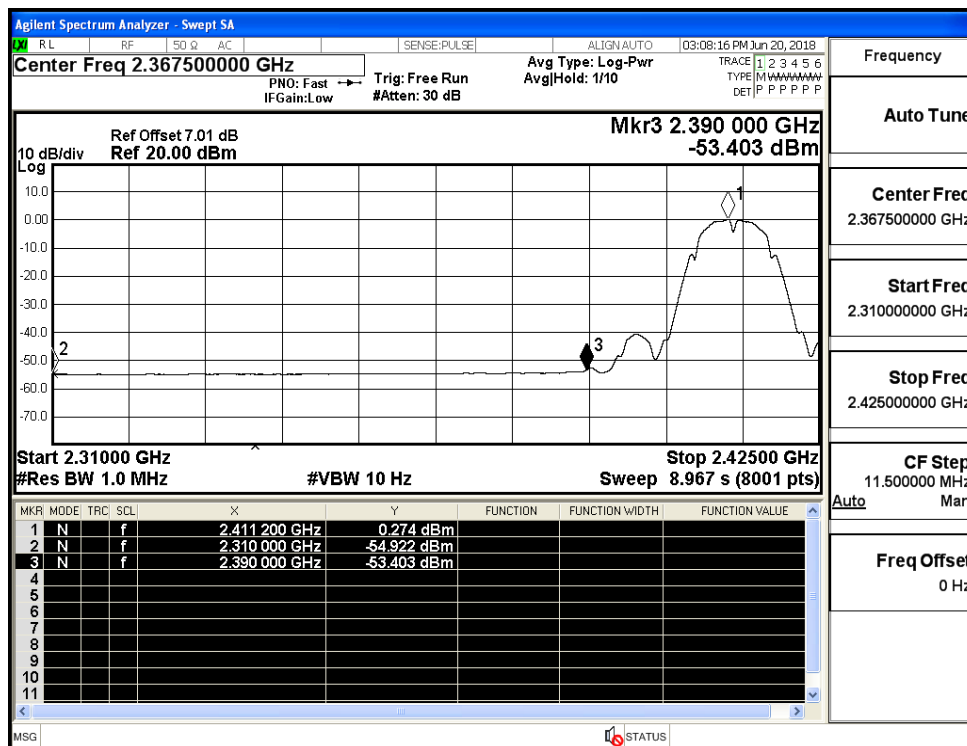
Restrict-band band-edge measurements_11N20SISO_2462_Ant0_AV



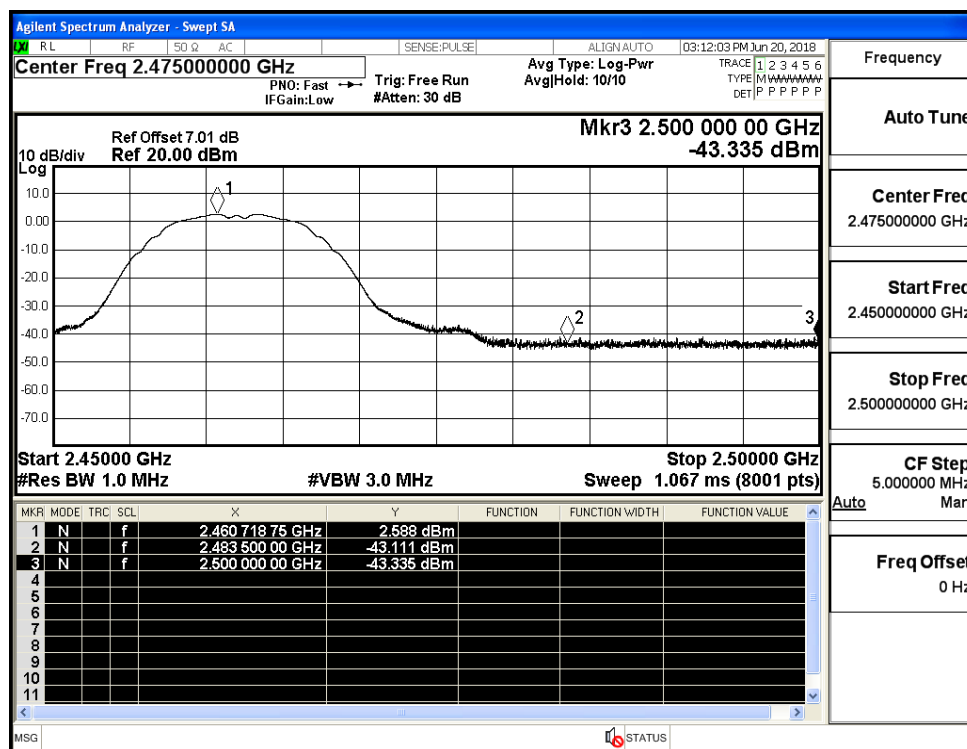
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



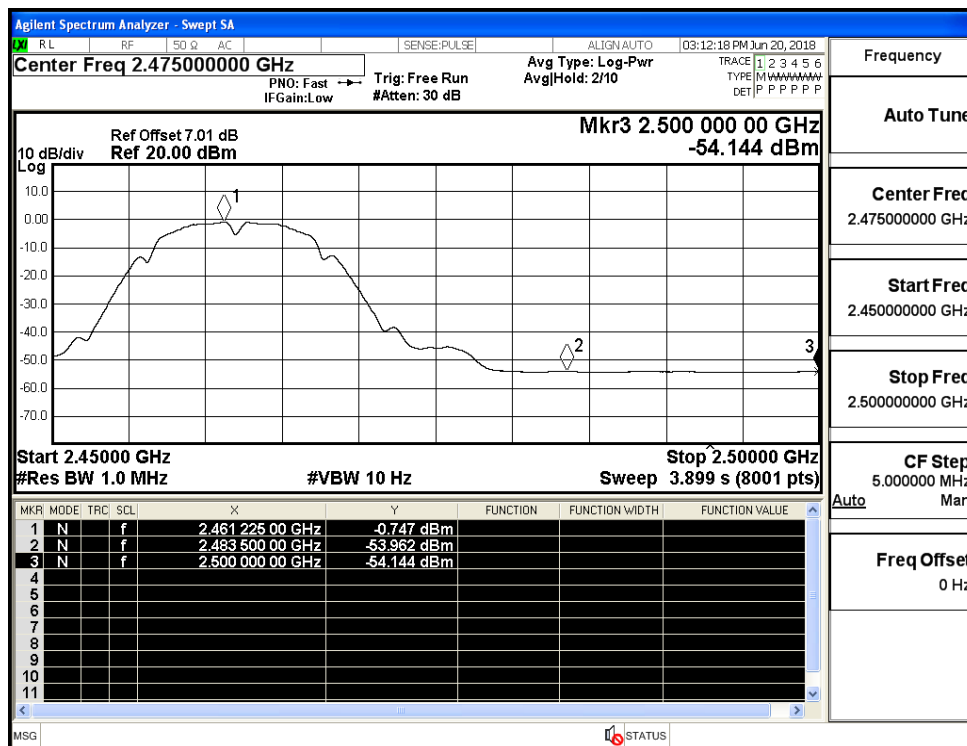
Restrict-band band-edge measurements_11B_2412_Ant1_AV



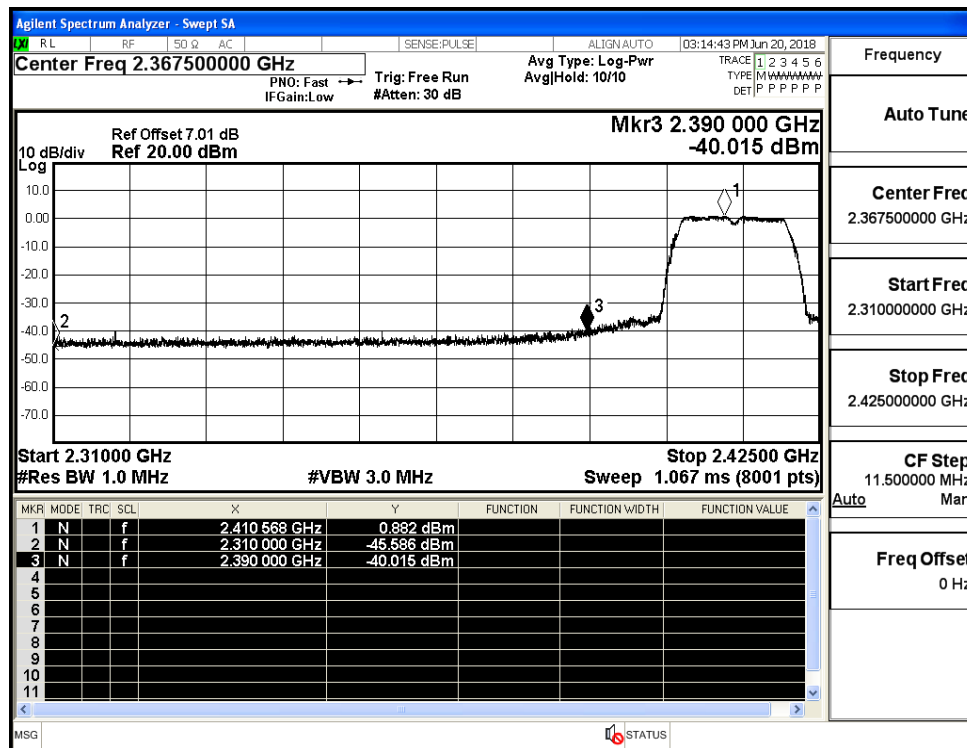
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



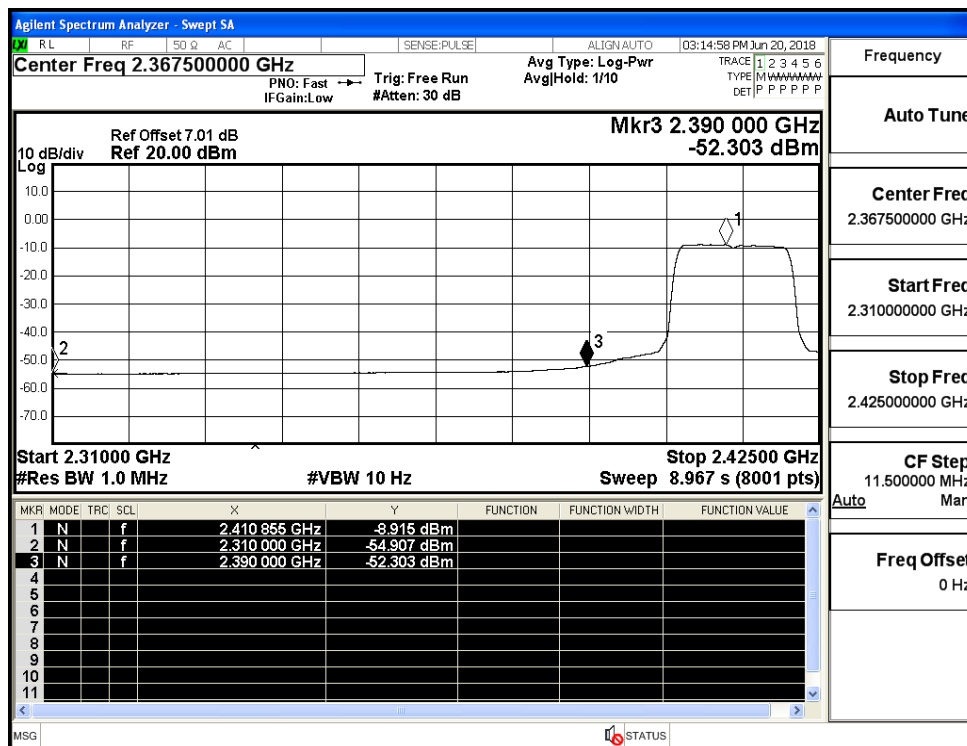
Restrict-band band-edge measurements_11B_2462_Ant1_AV



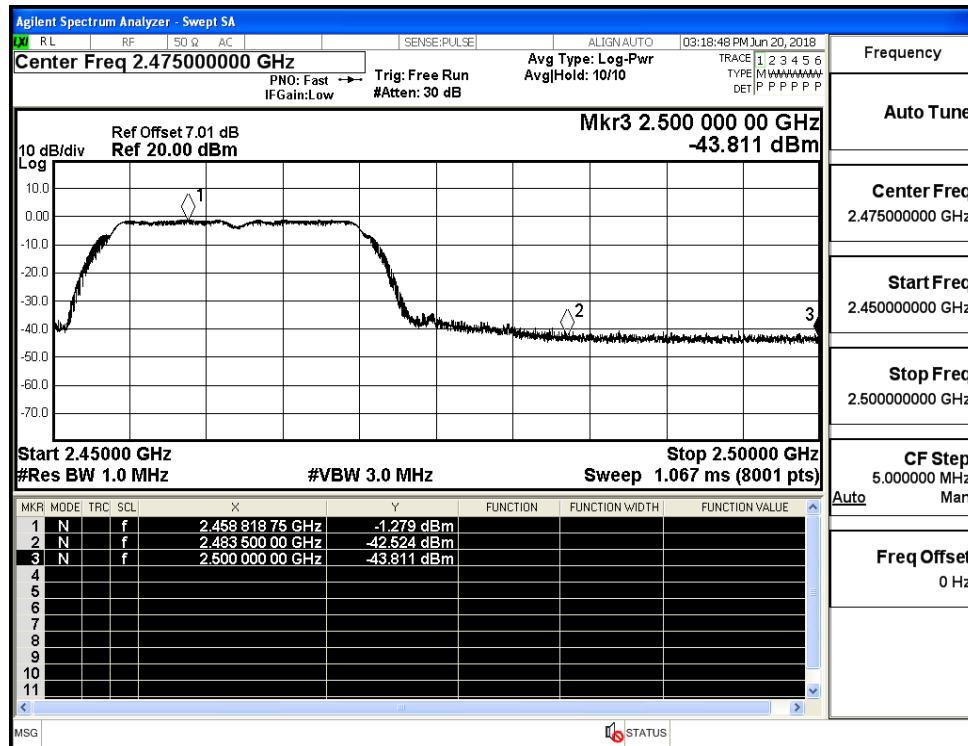
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



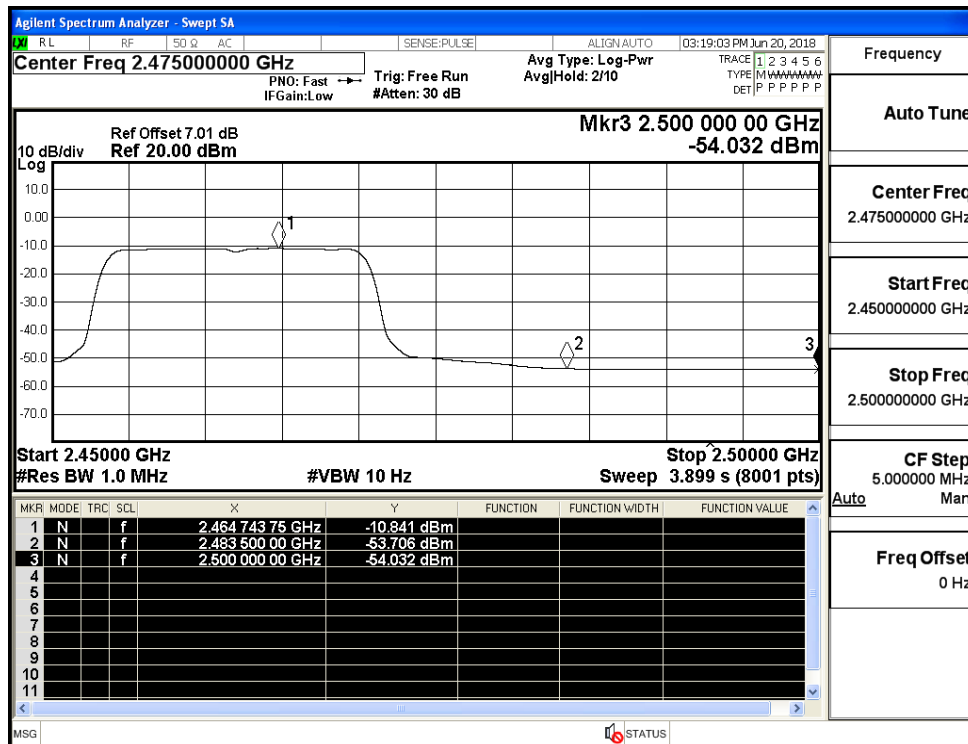
Restrict-band band-edge measurements_11G_2412_Ant1_AV



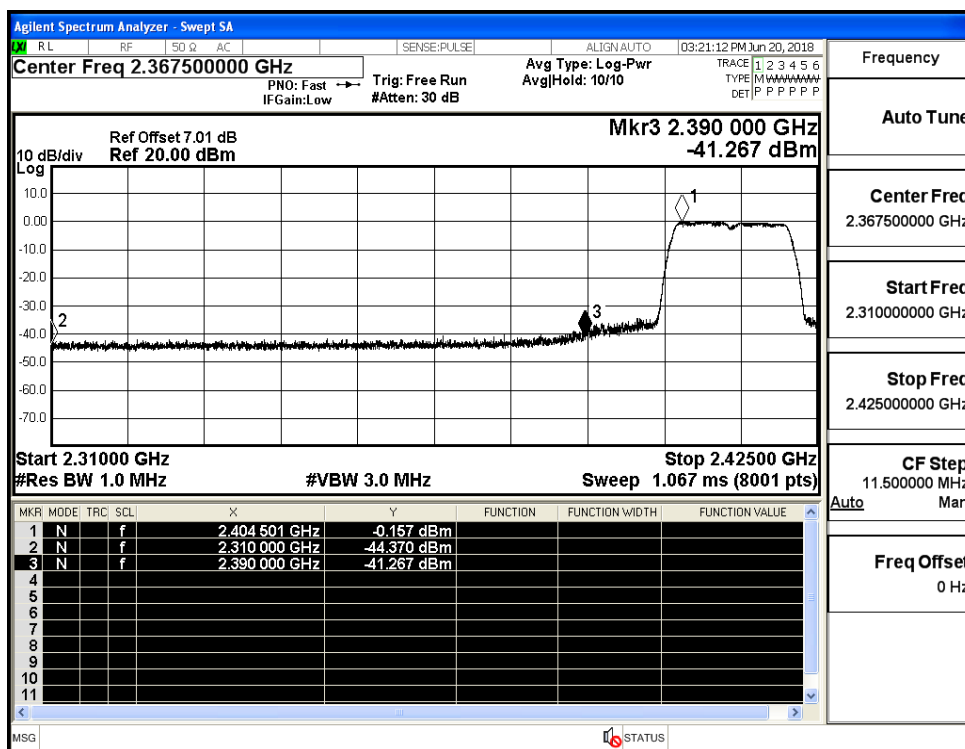
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



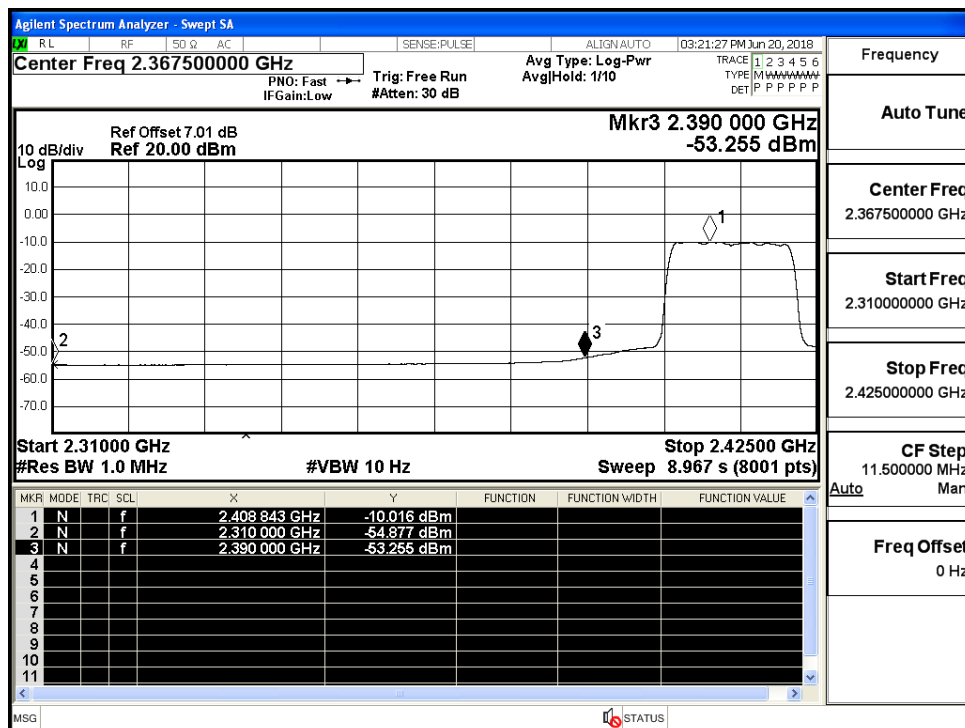
Restrict-band band-edge measurements_11G_2462_Ant1_AV



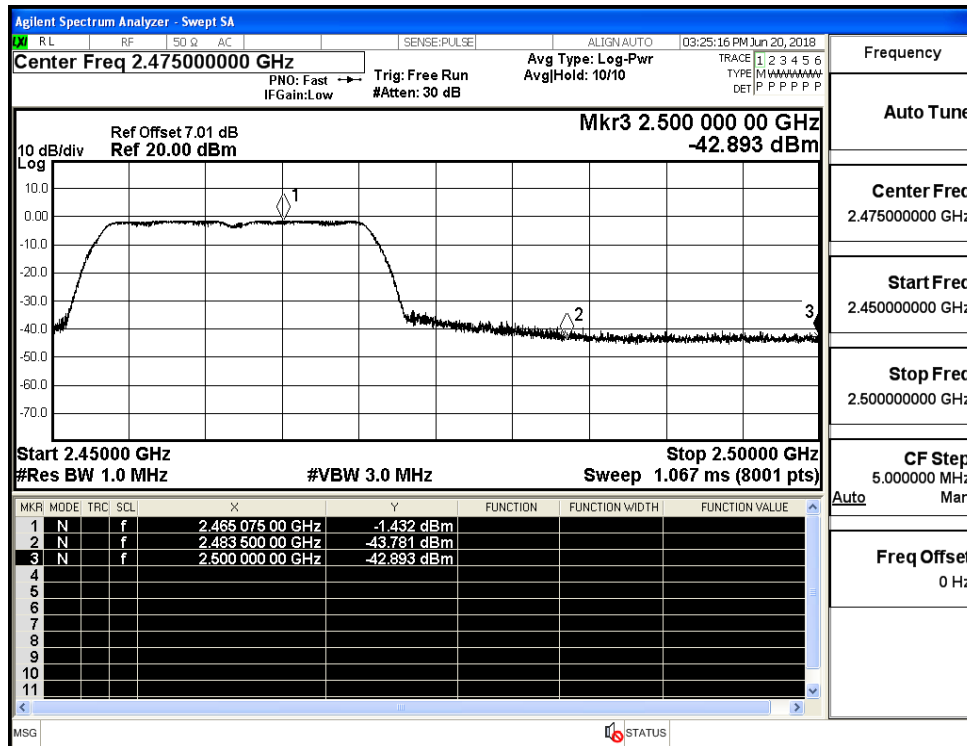
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_PEAK



Restrict-band band-edge measurements_11N20SISO_2462_Ant1_AV

