

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Mobile WIFI Socket

Trade Mark: N/A

Test Model: LF01

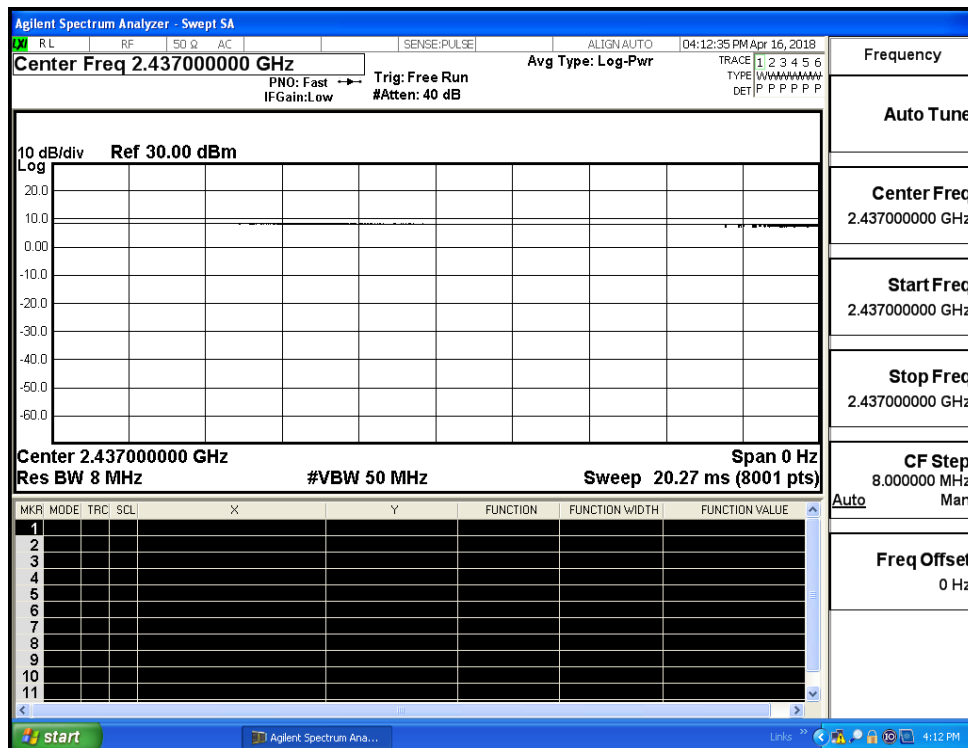
Environmental Conditions

Temperature:	22.3 ° C
Relative Humidity:	51.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Willson.hong
Supervised by:	Jayden.Zhuo

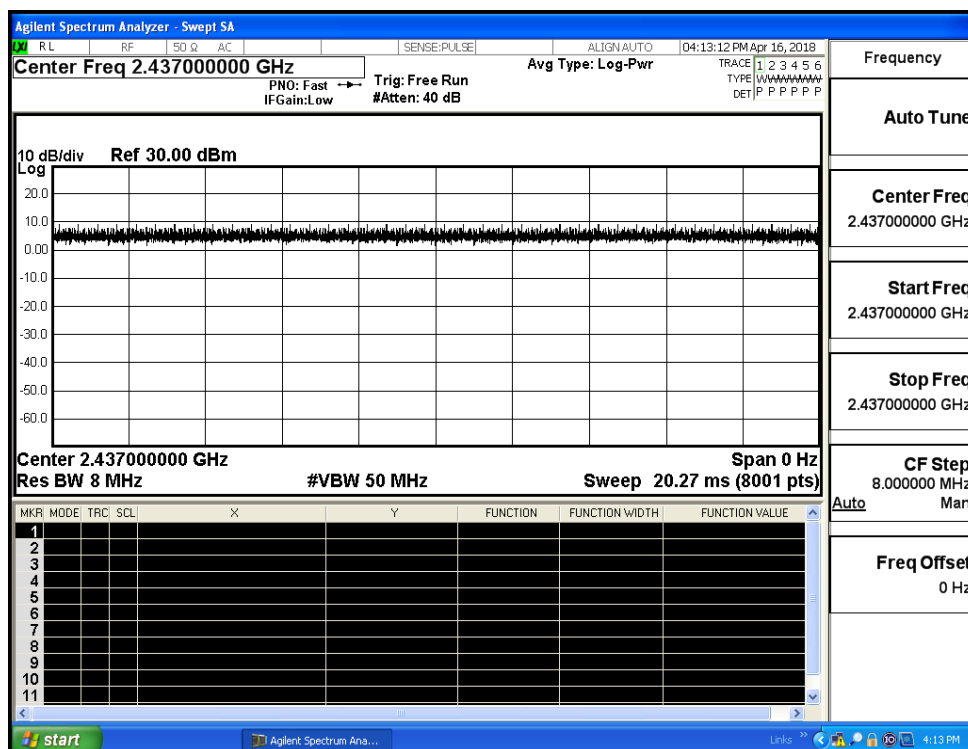
C.1 Duty Cycle

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

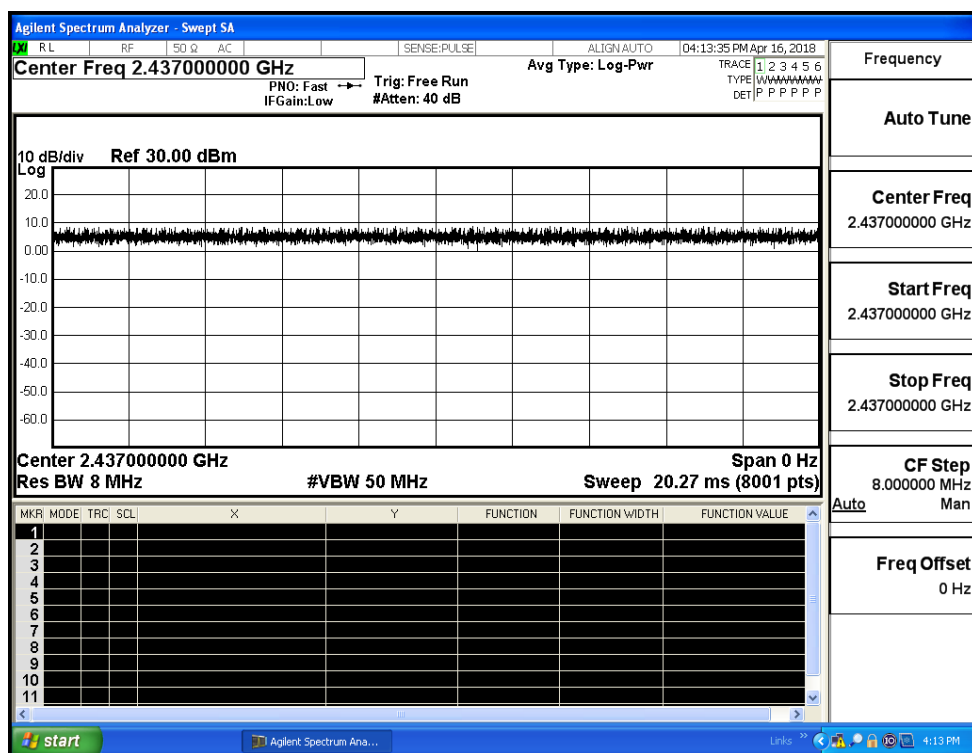
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



C.2 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Calculated.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-0.229	-10.229	8	PASS
	MCH	0.478	-9.522	8	PASS
	HCH	-0.470	-10.47	8	PASS
11G	LCH	-6.165	-16.165	8	PASS
	MCH	-6.085	-16.085	8	PASS
	HCH	-7.260	-17.26	8	PASS
11N20SISO	LCH	-6.603	-16.603	8	PASS
	MCH	-6.478	-16.478	8	PASS
	HCH	-7.667	-17.667	8	PASS

Test Graphs

11B/LCH



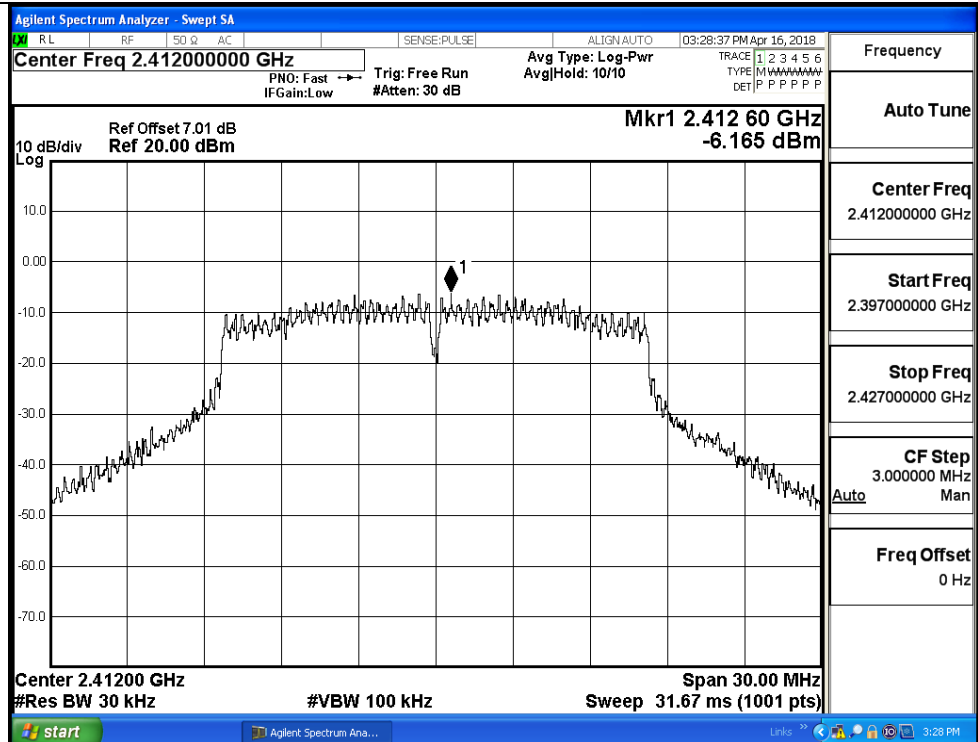
11B/MCH



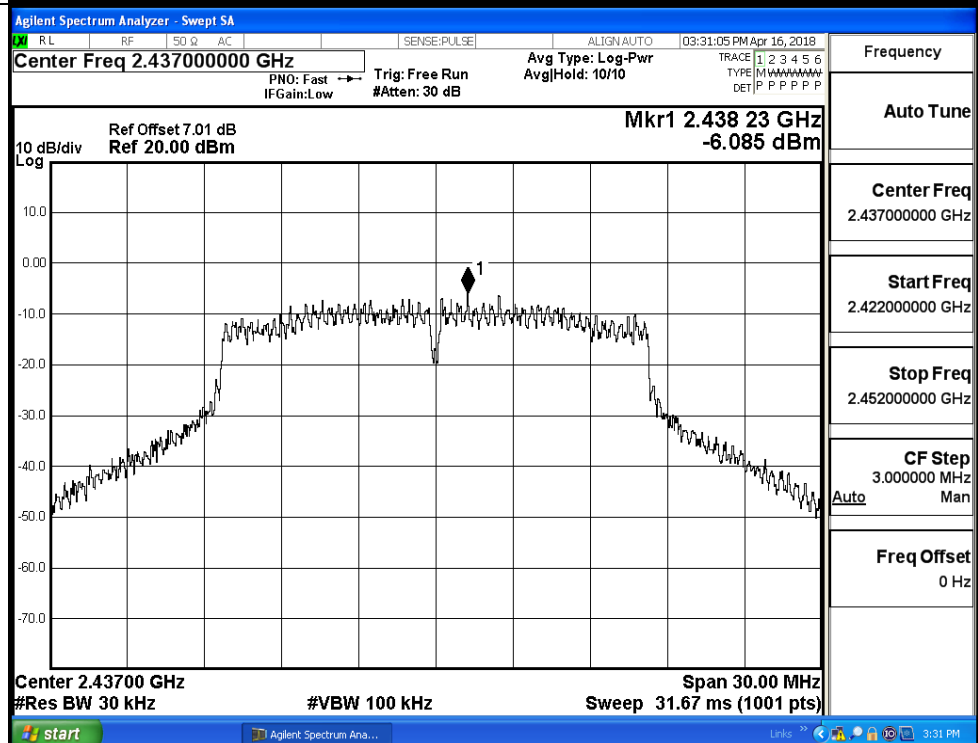
11B/HCH



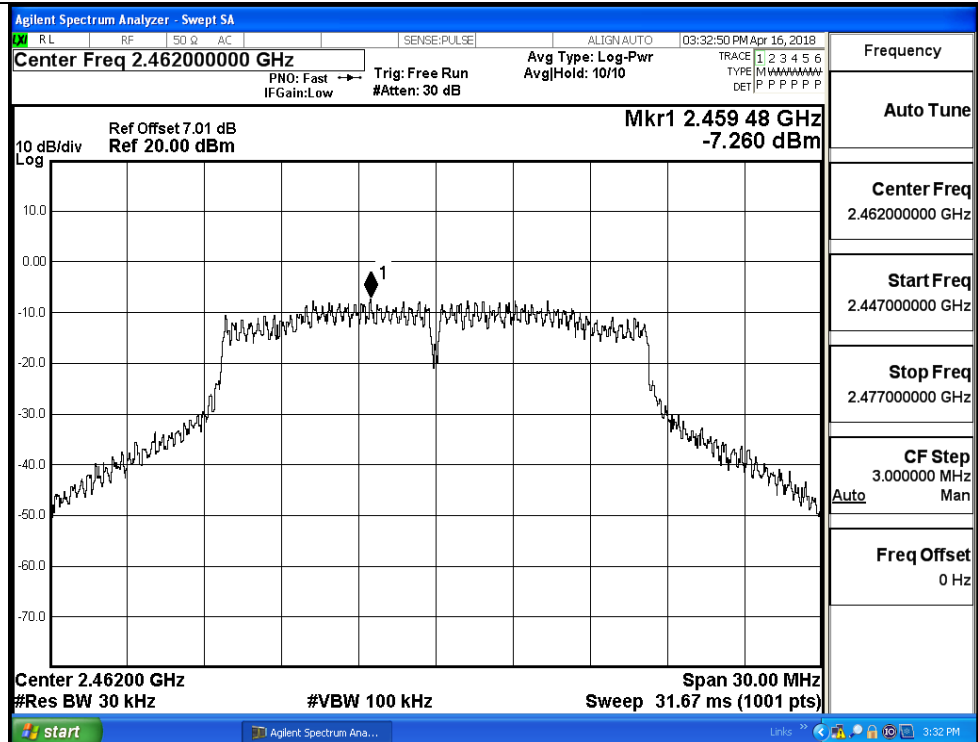
11G/LCH



11G/MCH



11G/HCH



Frequency

Auto Tune

Center Freq

2.46200000 GHz

Start Freq

2.447000000 GHz

Stop Freq

2.477000000 GHz

CF Step

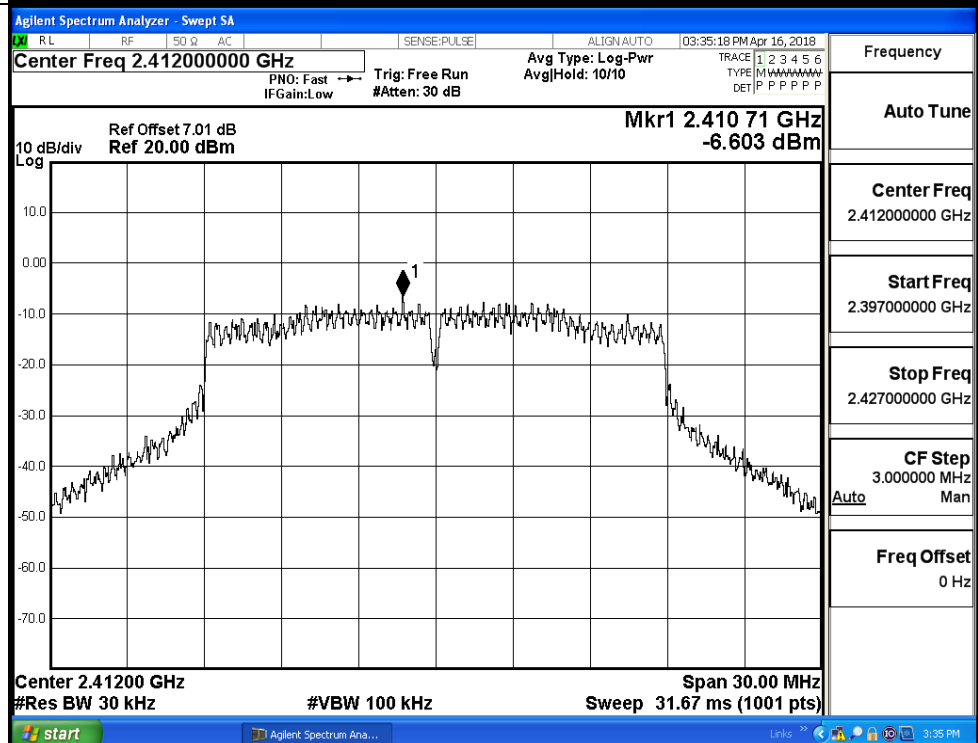
3.000000 MHz

Auto Man

Freq Offset

0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq

2.41200000 GHz

Start Freq

2.397000000 GHz

Stop Freq

2.427000000 GHz

CF Step

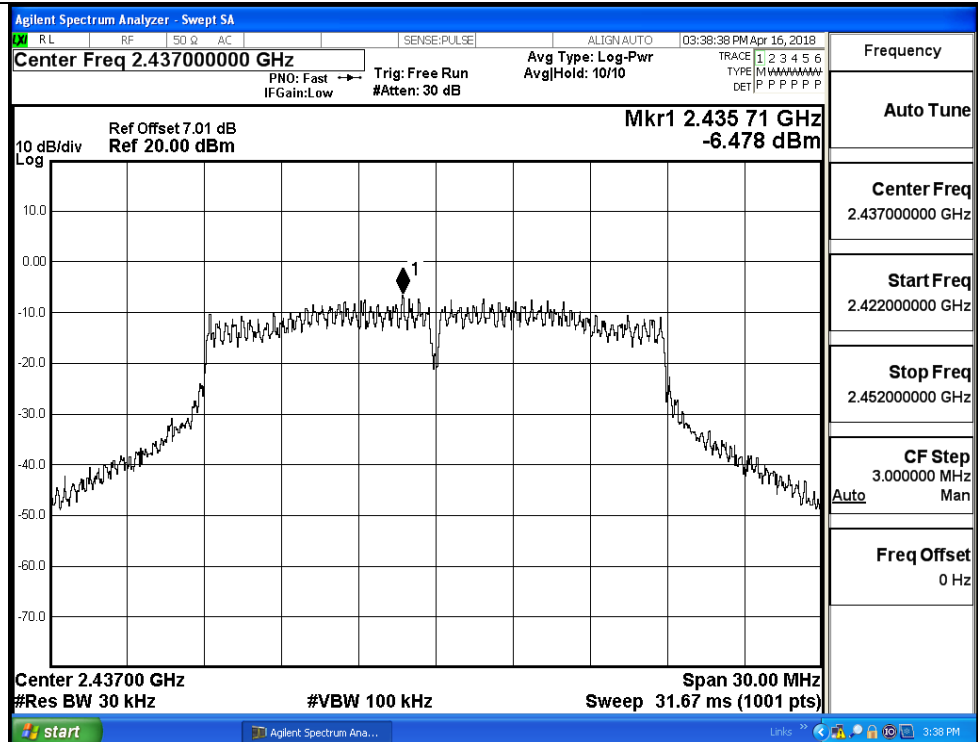
3.000000 MHz

Auto Man

Freq Offset

0 Hz

11N20SISO/MCH

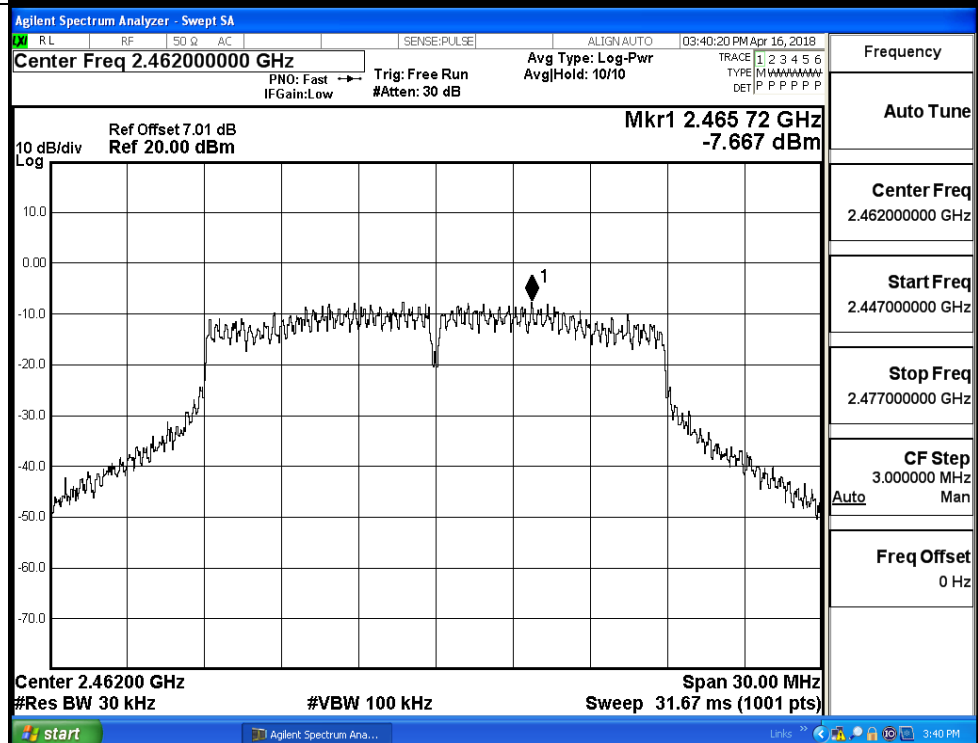


Frequency

Auto Tune

Center Freq
2.437000000 GHzStart Freq
2.422000000 GHzStop Freq
2.452000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/HCH



Frequency

Auto Tune

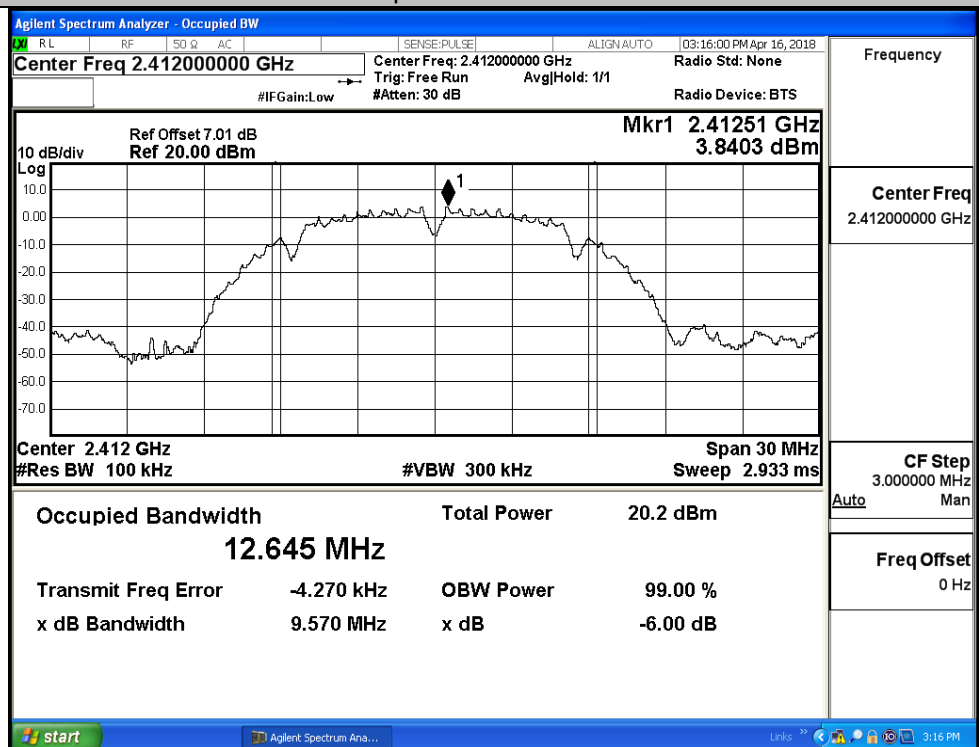
Center Freq
2.462000000 GHzStart Freq
2.447000000 GHzStop Freq
2.477000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

C.3 6dB Bandwidth

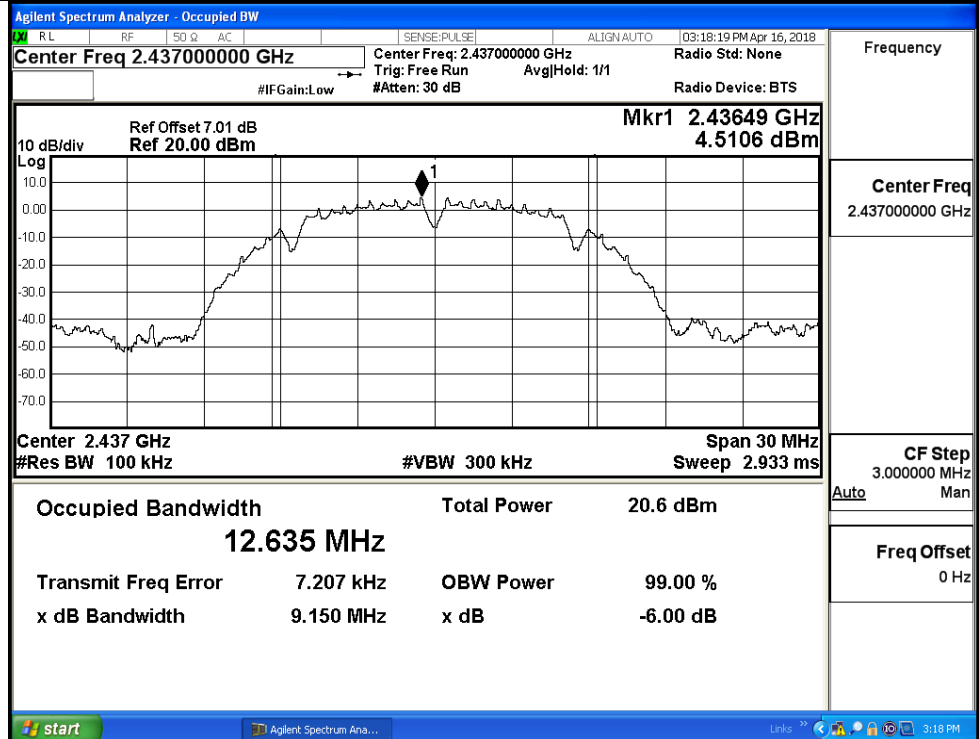
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.570	≥ 0.5	PASS
	MCH	9.150	≥ 0.5	PASS
	HCH	9.135	≥ 0.5	PASS
11G	LCH	15.15	≥ 0.5	PASS
	MCH	15.11	≥ 0.5	PASS
	HCH	15.03	≥ 0.5	PASS
11N20SISO	LCH	15.15	≥ 0.5	PASS
	MCH	15.09	≥ 0.5	PASS
	HCH	15.10	≥ 0.5	PASS

Test Graphs

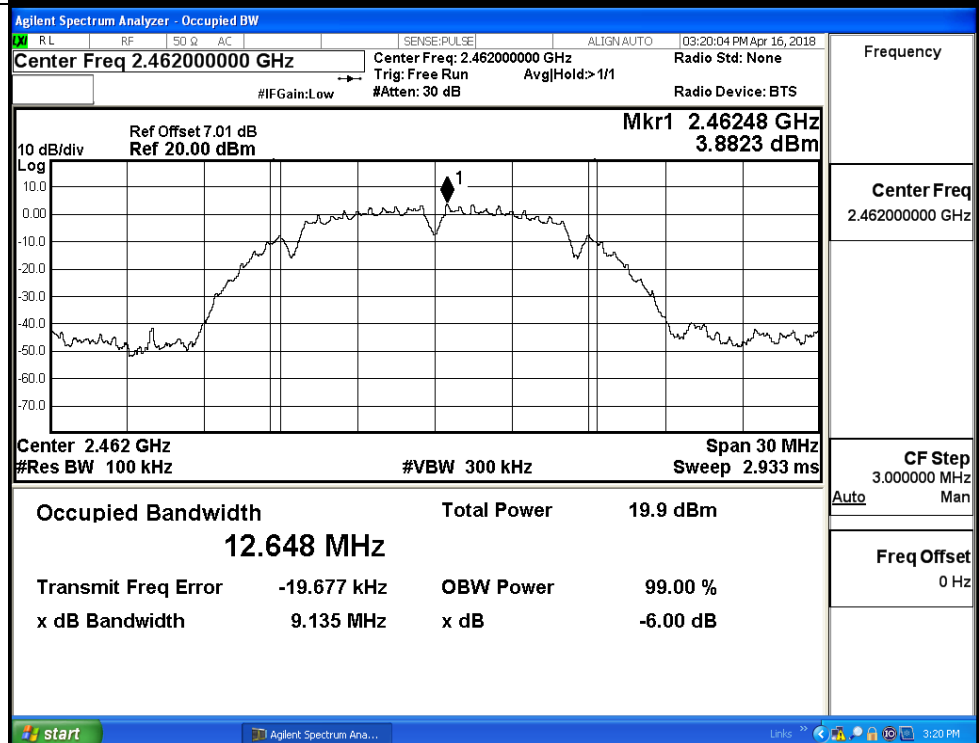
11B/LCH



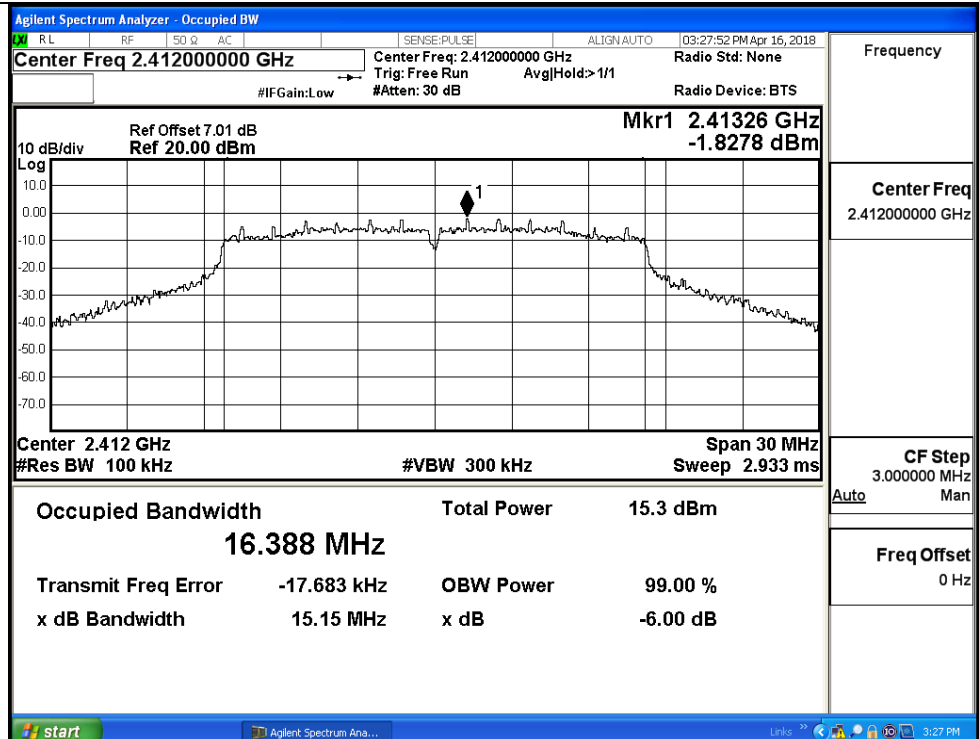
11B/MCH



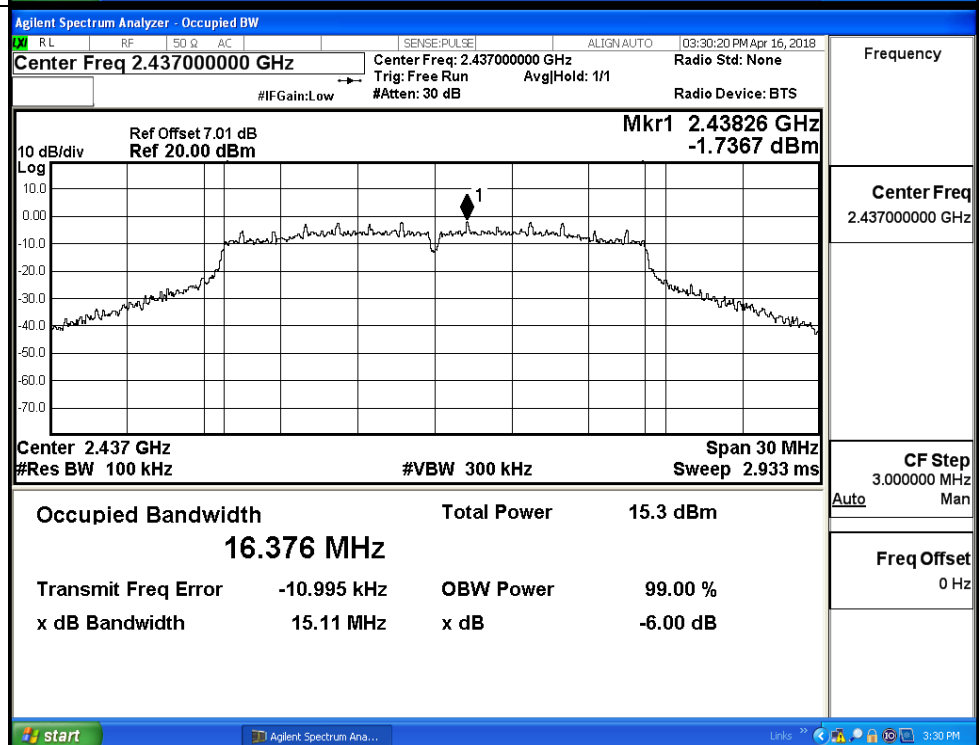
11B/HCH



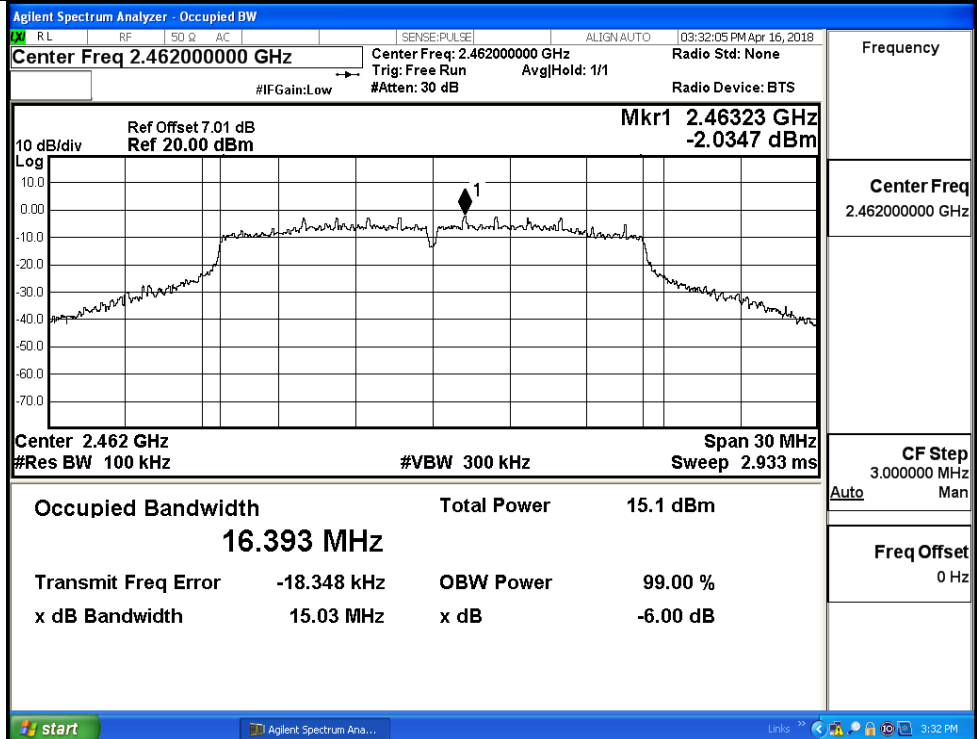
11G/LCH



11G/MCH



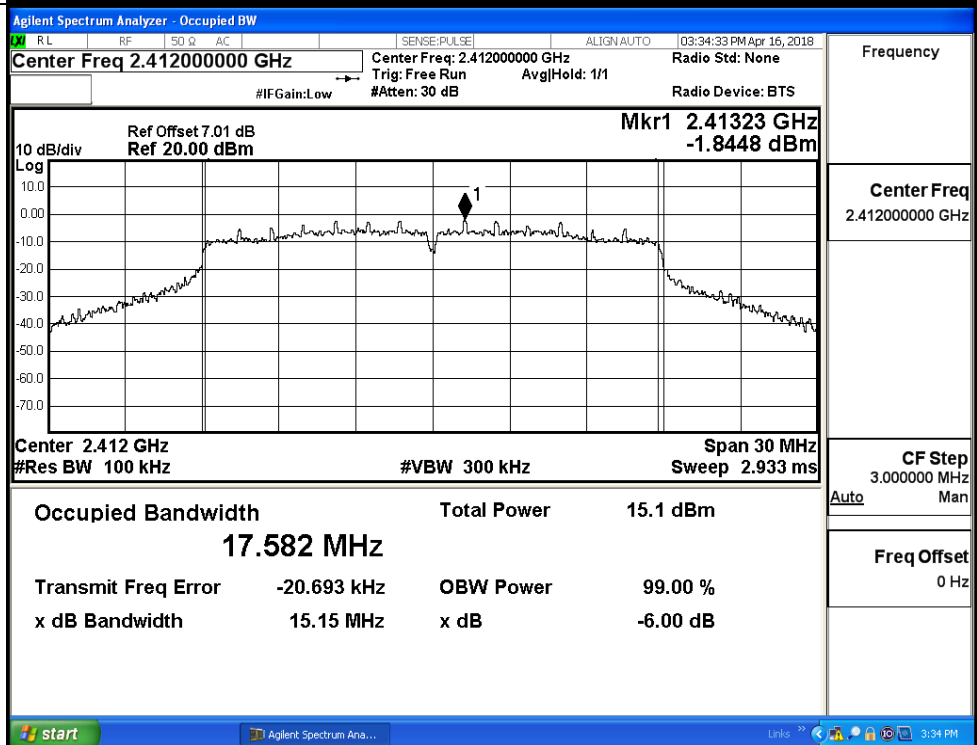
11G/HCH



Frequency

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

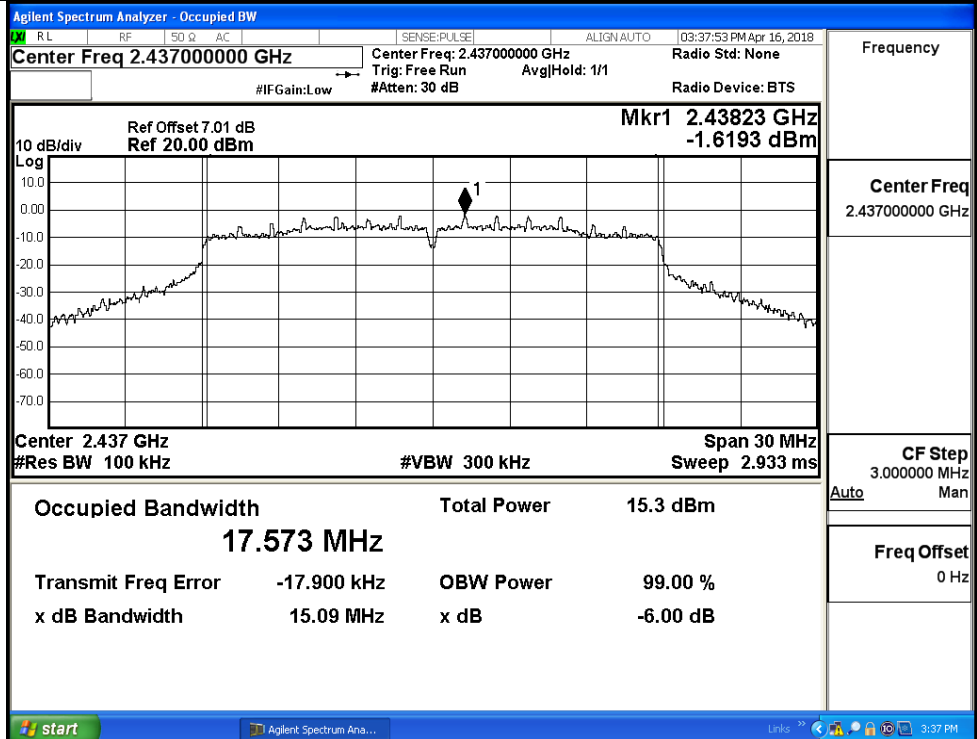
11N20SISO/LCH



Frequency

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

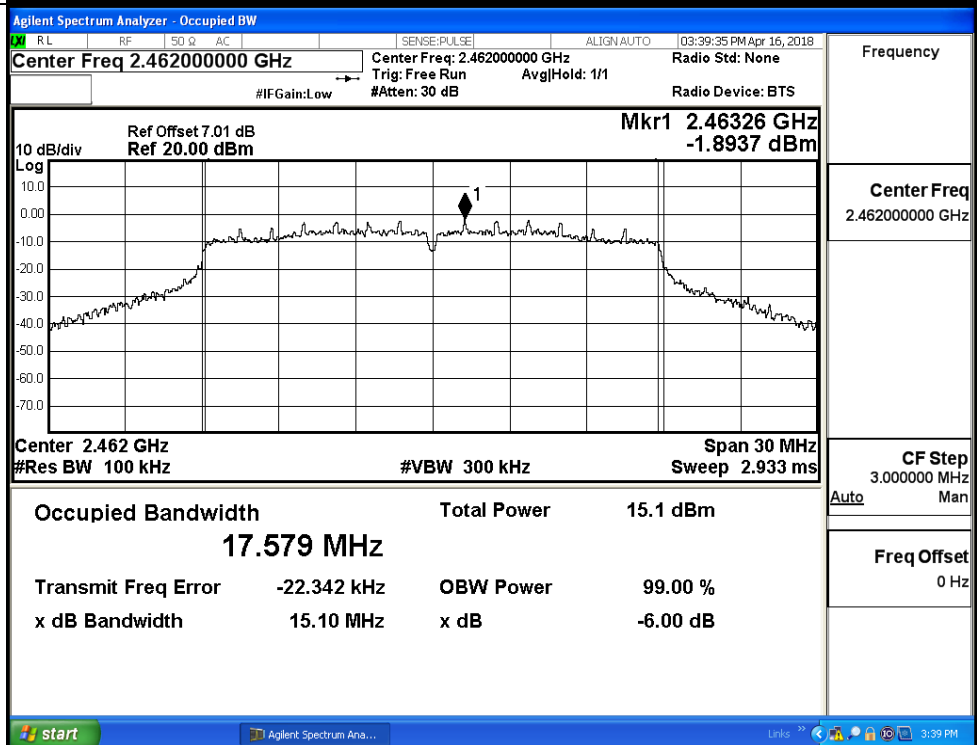
11N20SISO/MCH



Frequency

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

11N20SISO/HCH



Frequency

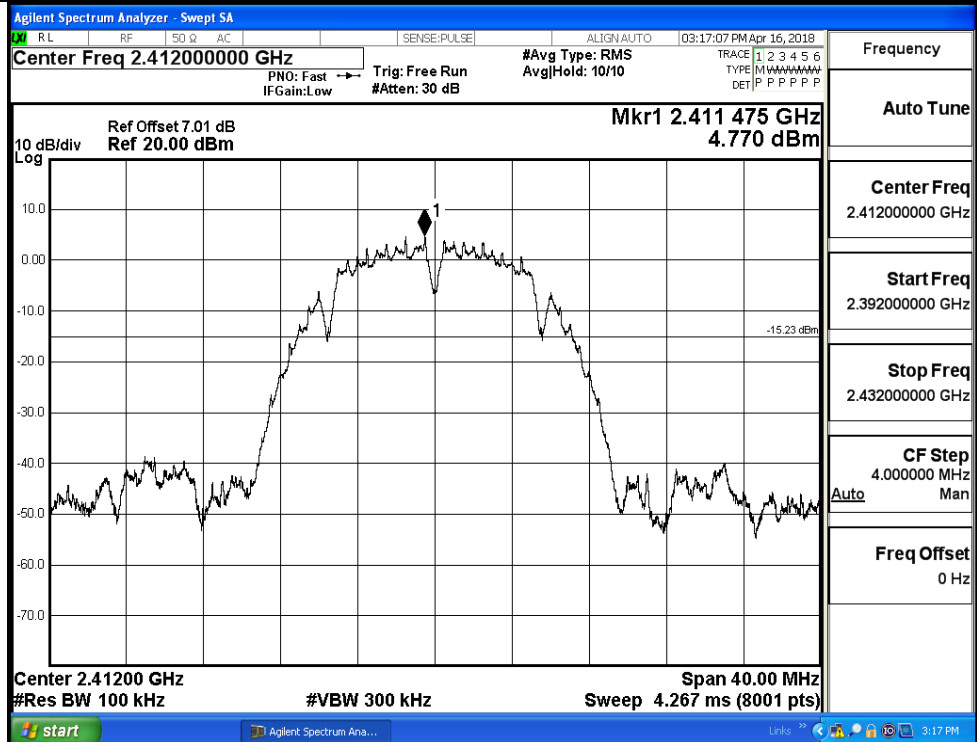
Center Freq
2.462000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

C.4 RF Conducted Spurious Emissions

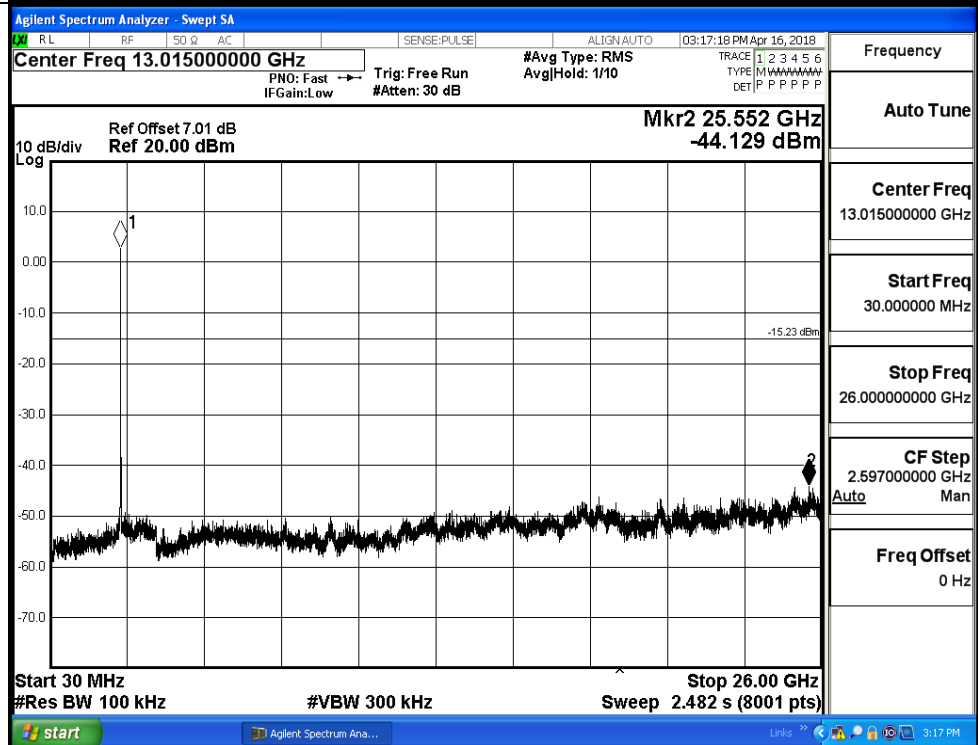
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.77	-44.129	-15.230	PASS
	MCH	4.298	-45.069	-15.702	PASS
	HCH	4.456	-44.179	-15.544	PASS
11G	LCH	-1.041	-44.976	-21.041	PASS
	MCH	-1.474	-44.576	-21.474	PASS
	HCH	-1.714	-44.905	-21.714	PASS
11N20 SISO	LCH	-2.19	-44.044	-22.190	PASS
	MCH	-1.808	-44.815	-21.808	PASS
	HCH	-1.576	-44.884	-21.576	PASS

11B LCH Graphs

Pref/11B/LCH

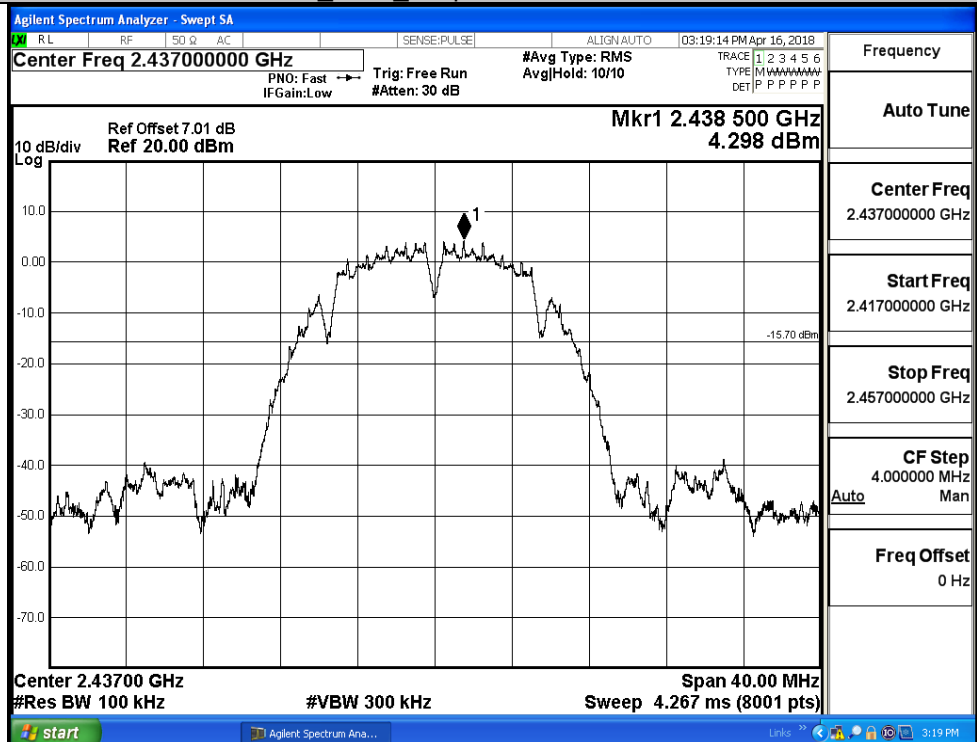


Puw/11B/LCH

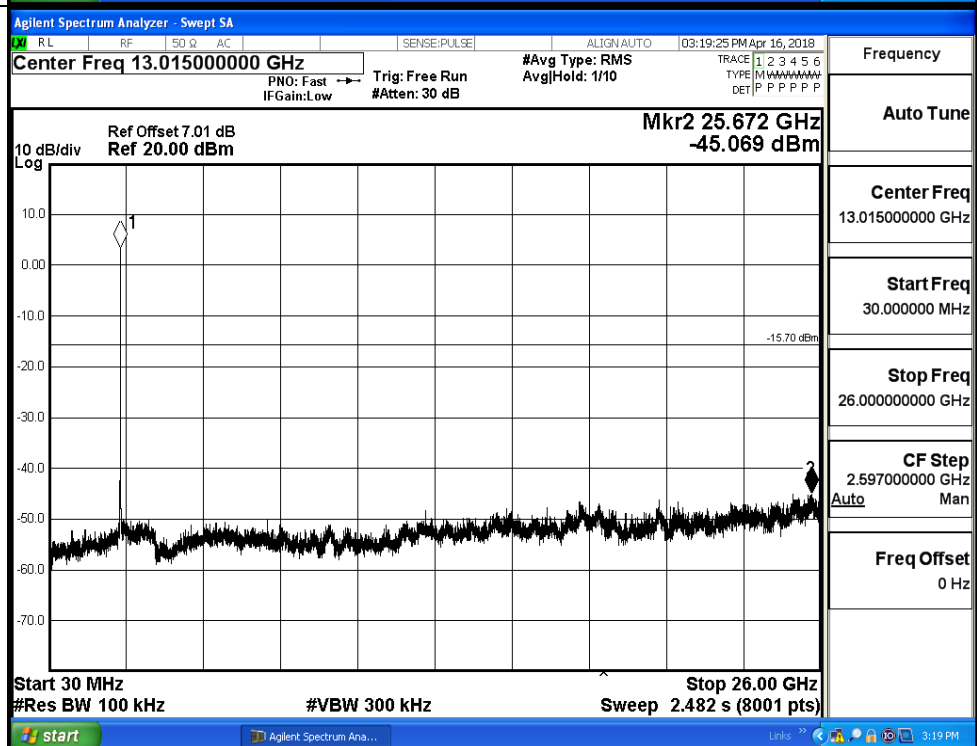


11B MCH Graphs

Pref/11B/MCH

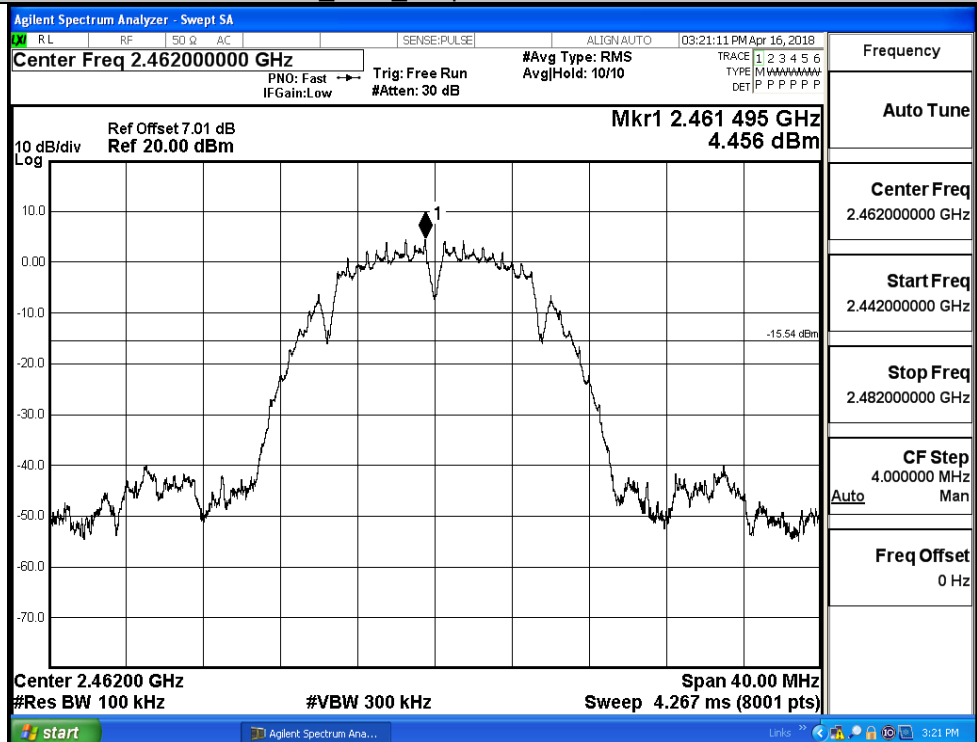


Puw/11B/MCH

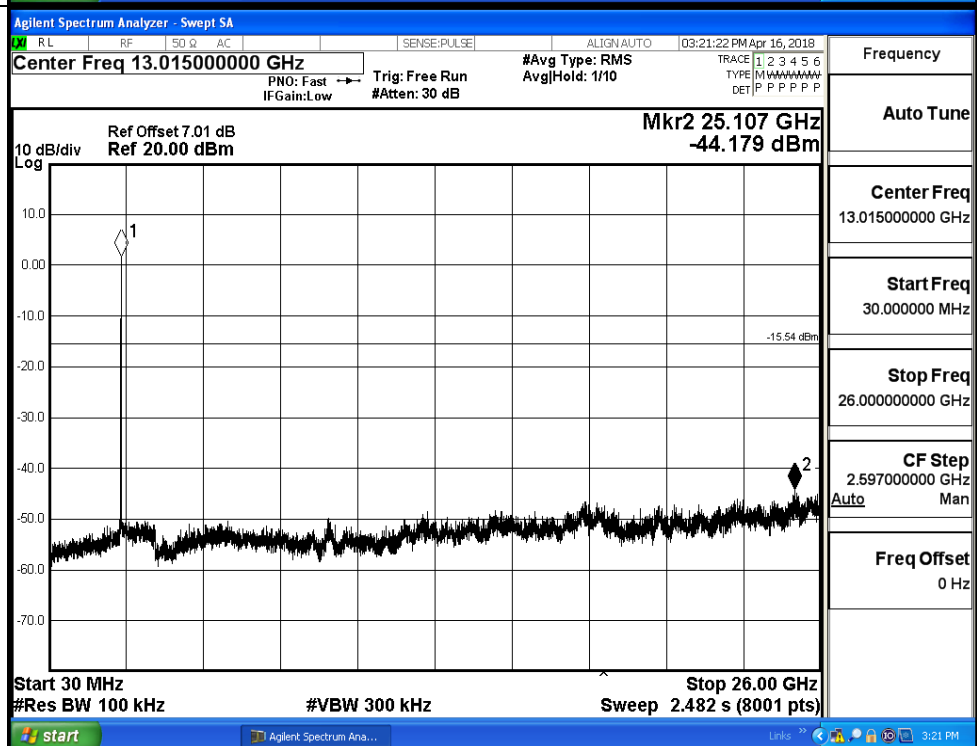


11B HCH Graphs

Pref/11B/HCH

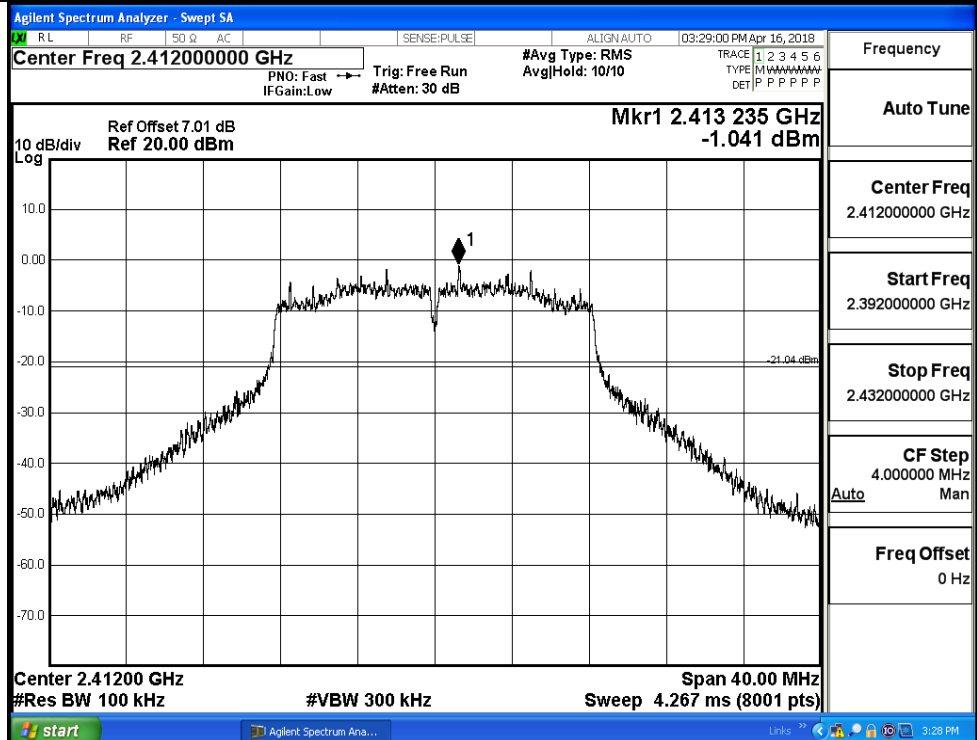


Puw/11B/HCH

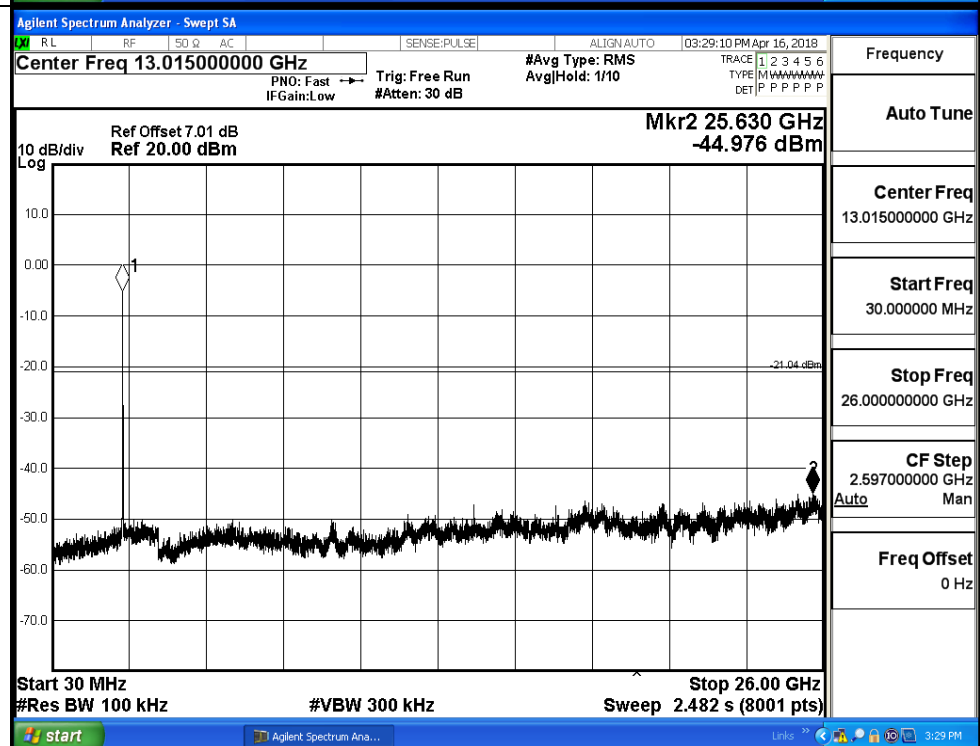


11G LCH Graphs

Pref/11G/LCH

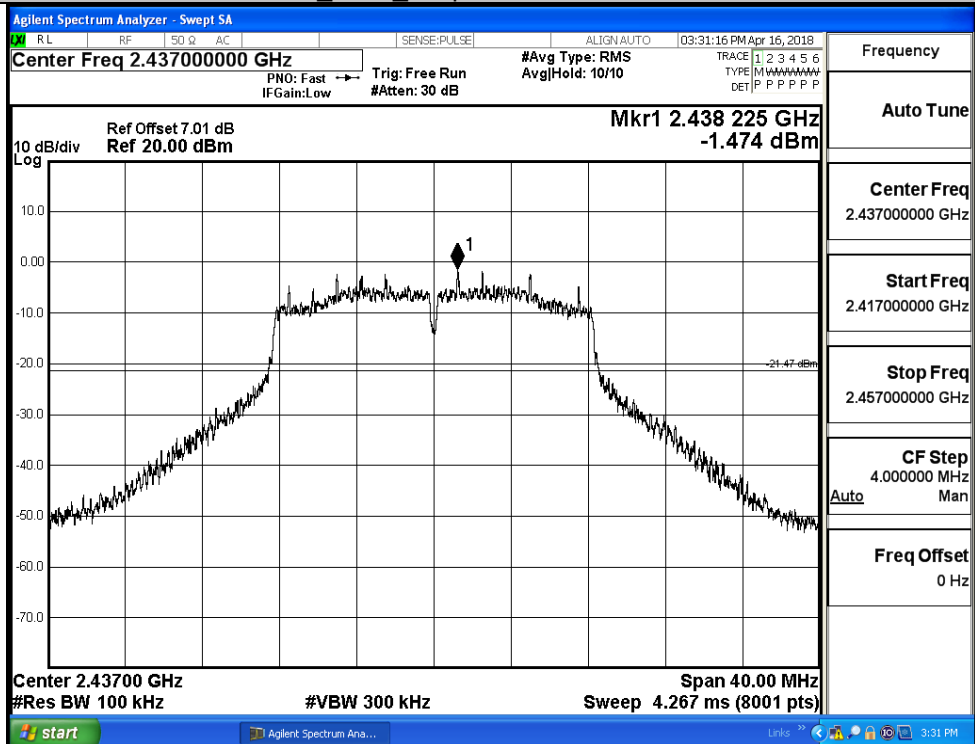


Puw/11G/LCH

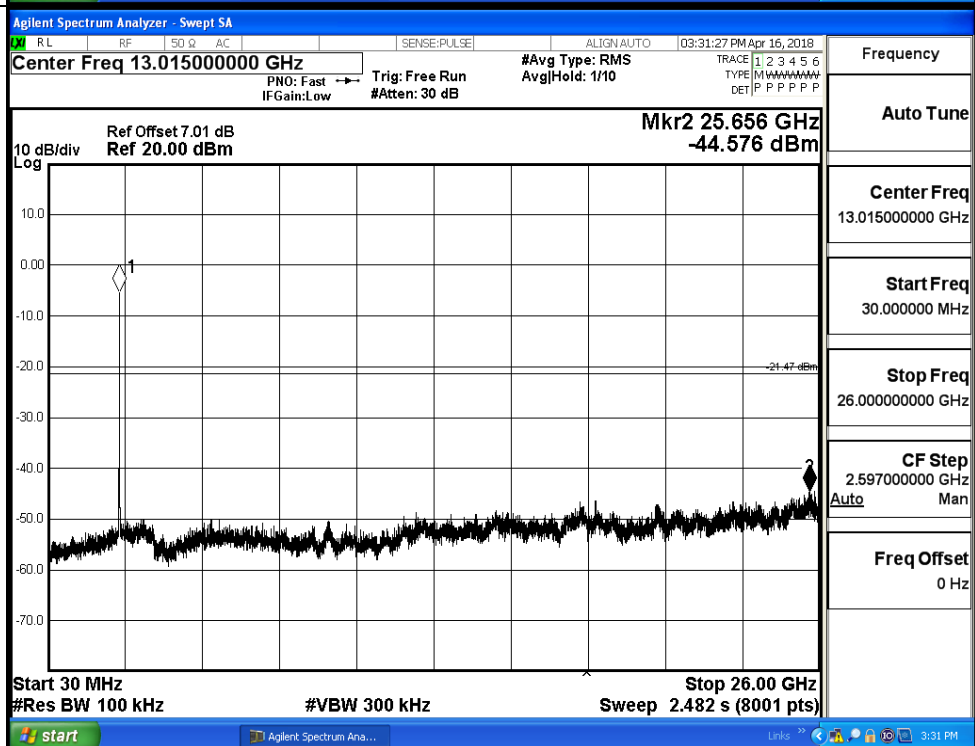


11G MCH Graphs

Pref/11G/MCH

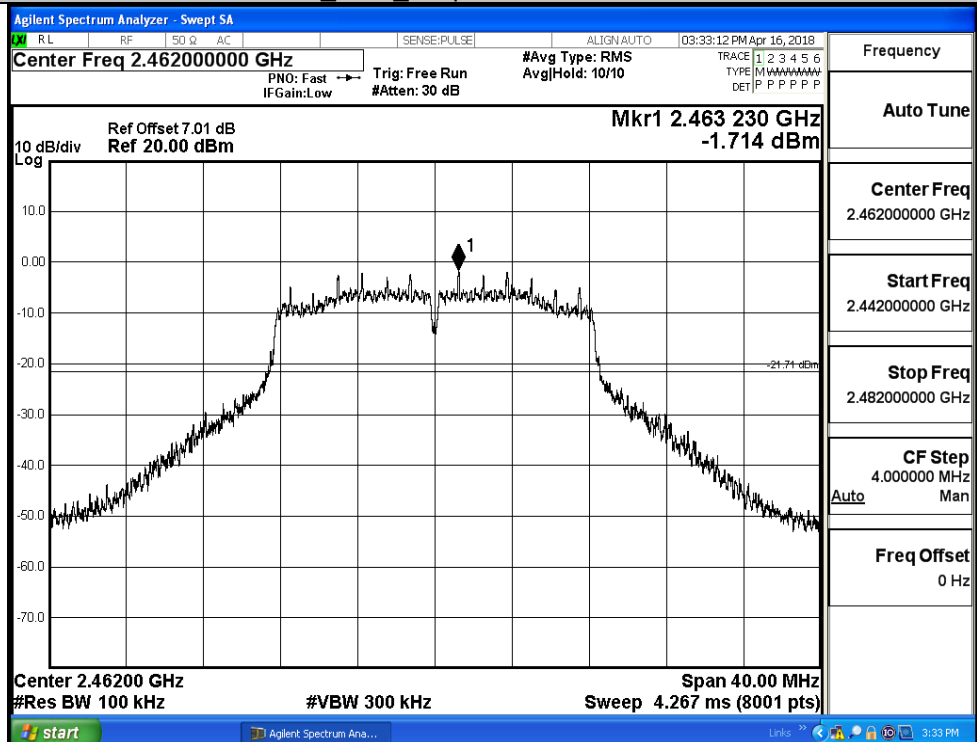


Puw/11G/MCH

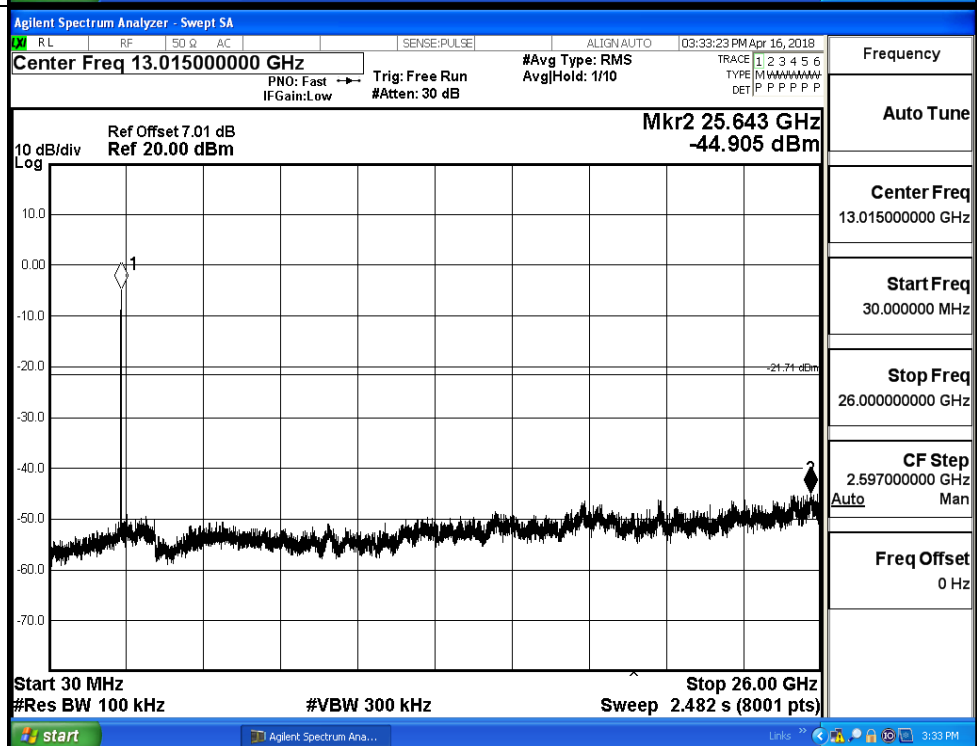


11G HCH Graphs

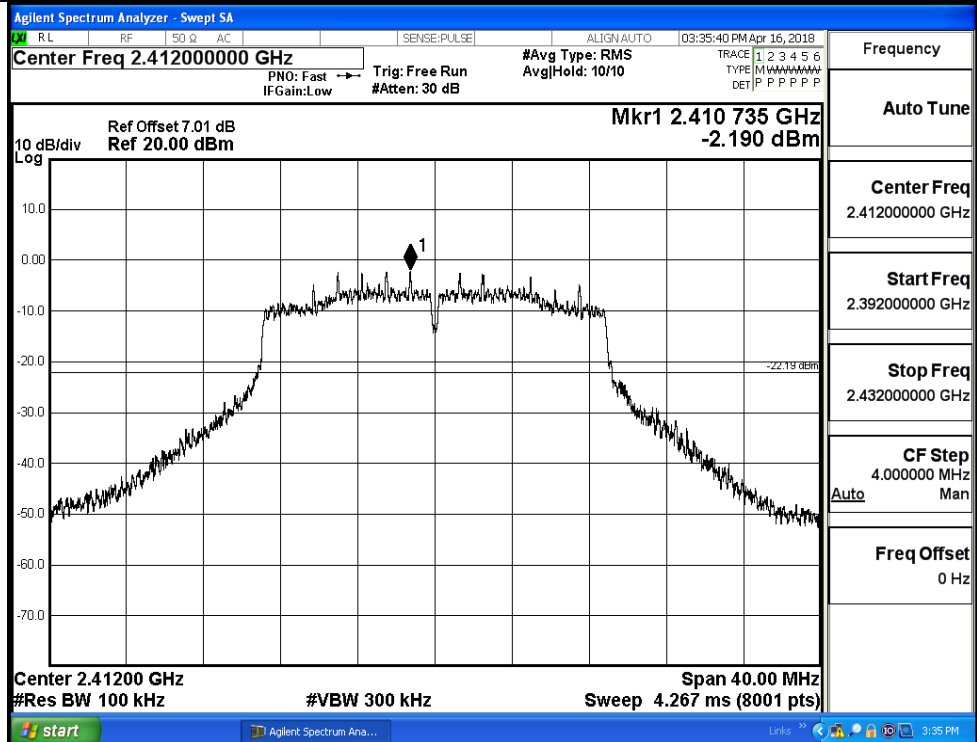
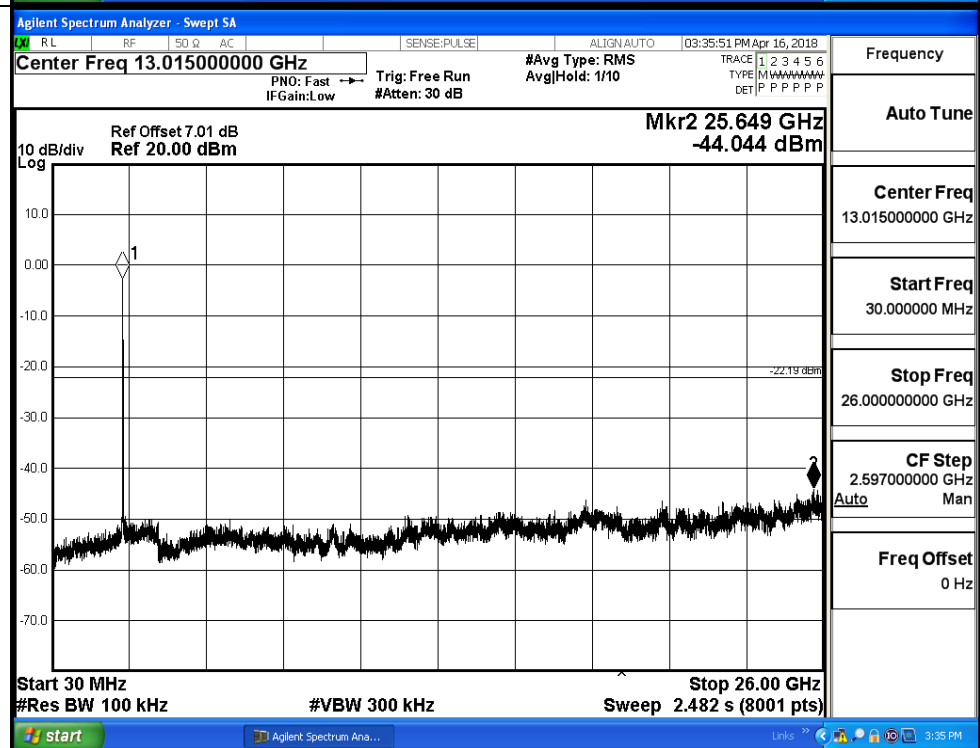
Pref/11G/HCH



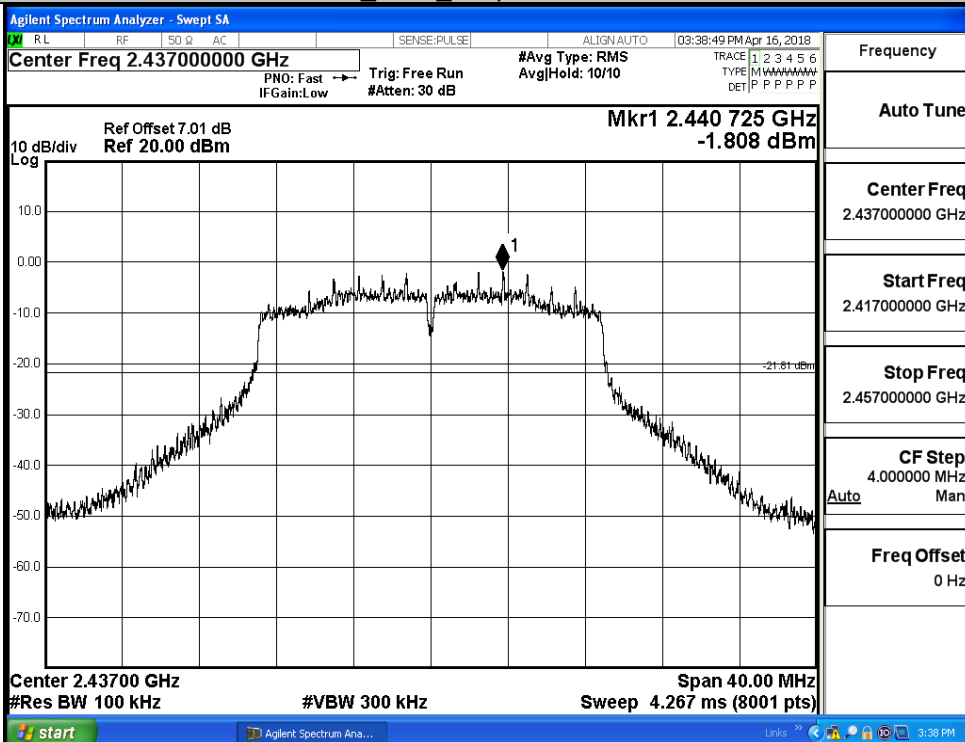
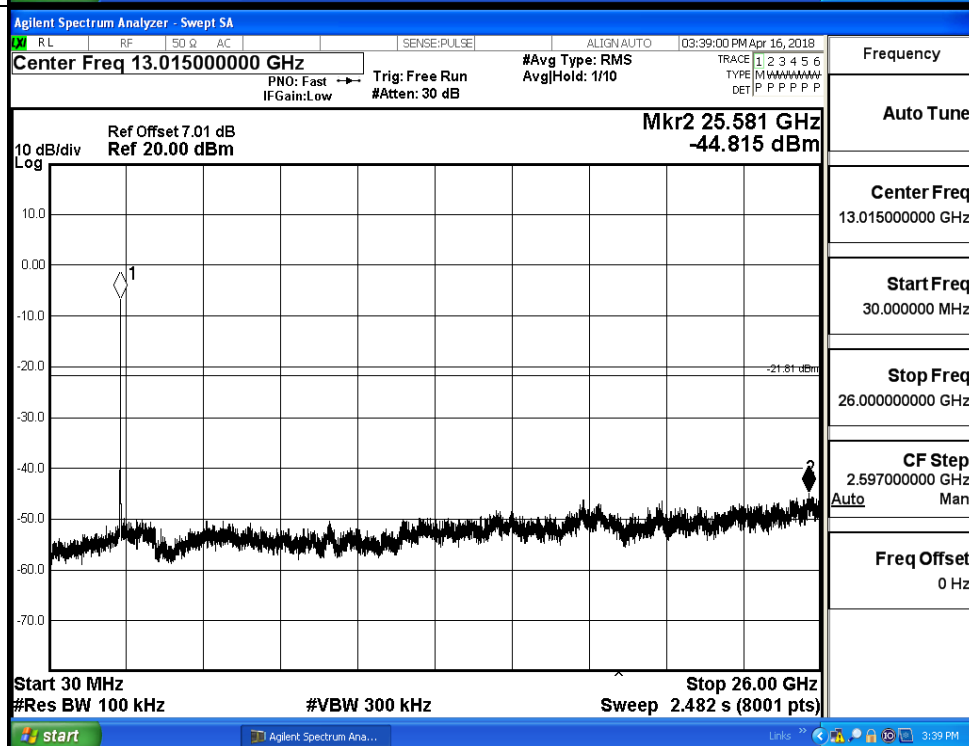
Puw/11G/HCH



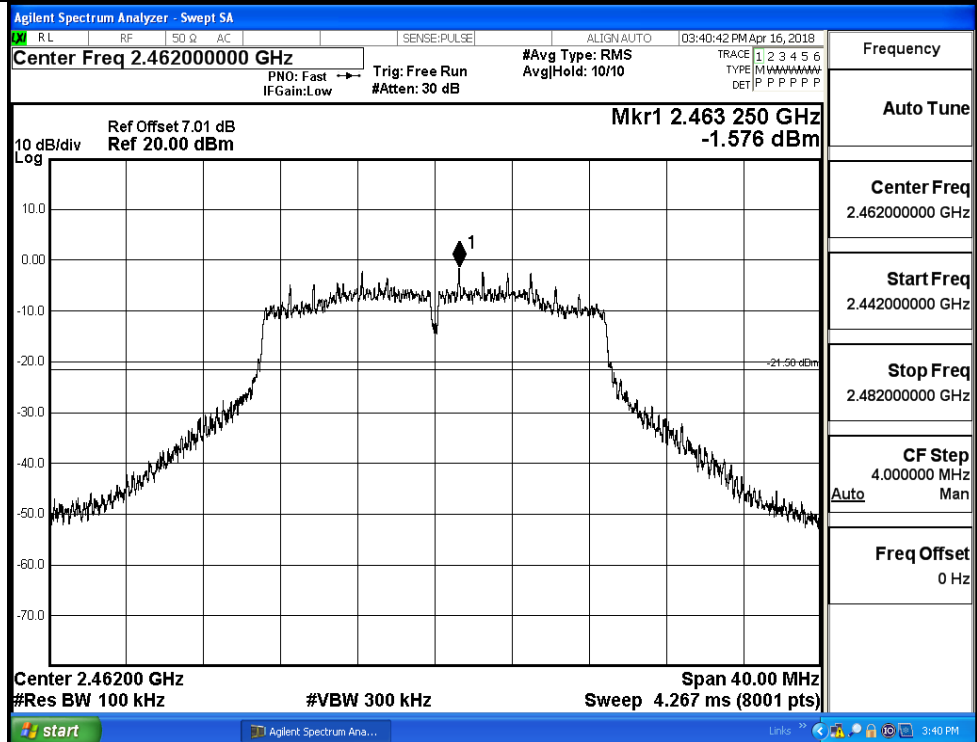
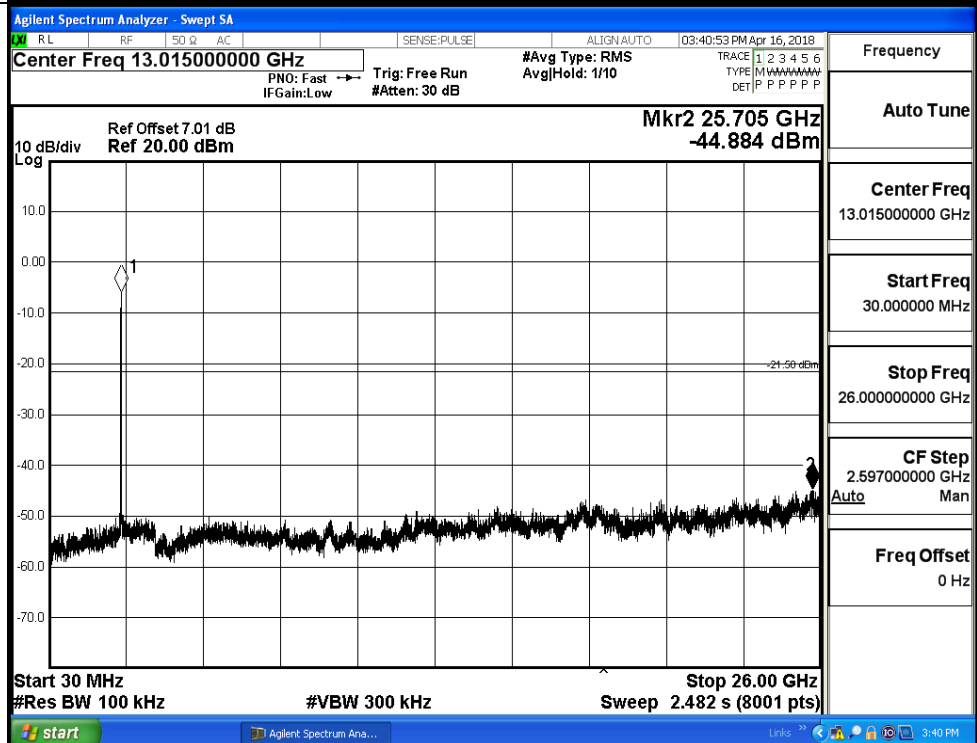
11N20SISO LCH Graphs

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

11N20SISO_MCH_Graphs

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

11N20SISO HCH Graphs

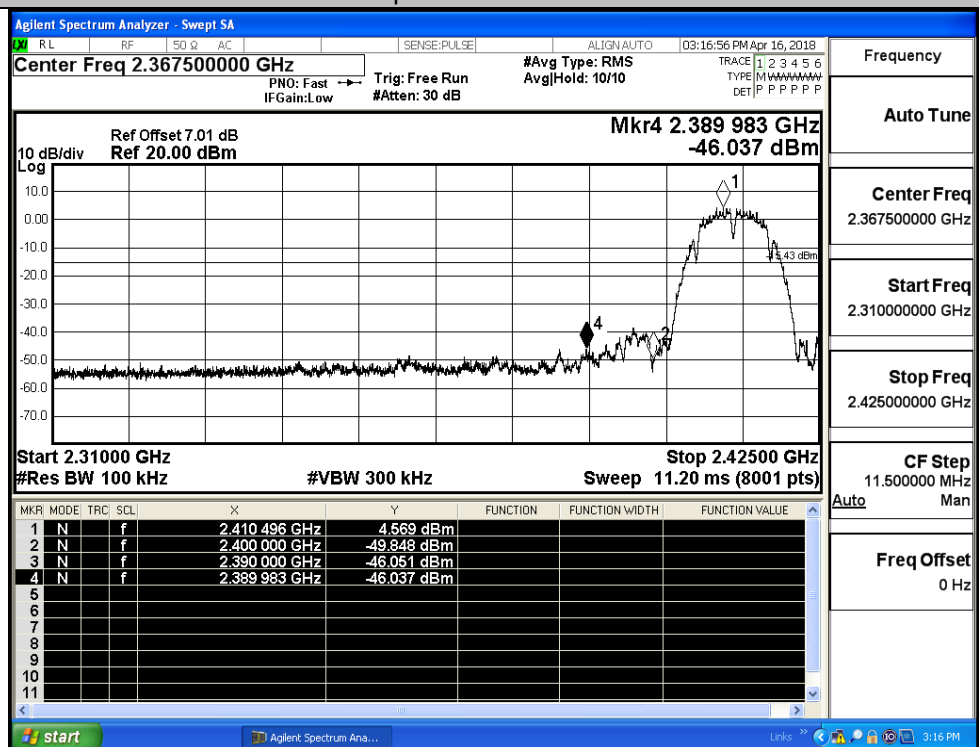
Pref/11N20
SISO/HCHPuw/11N20
SISO/HCH

C.5 Band-edge for RF Conducted Emissions

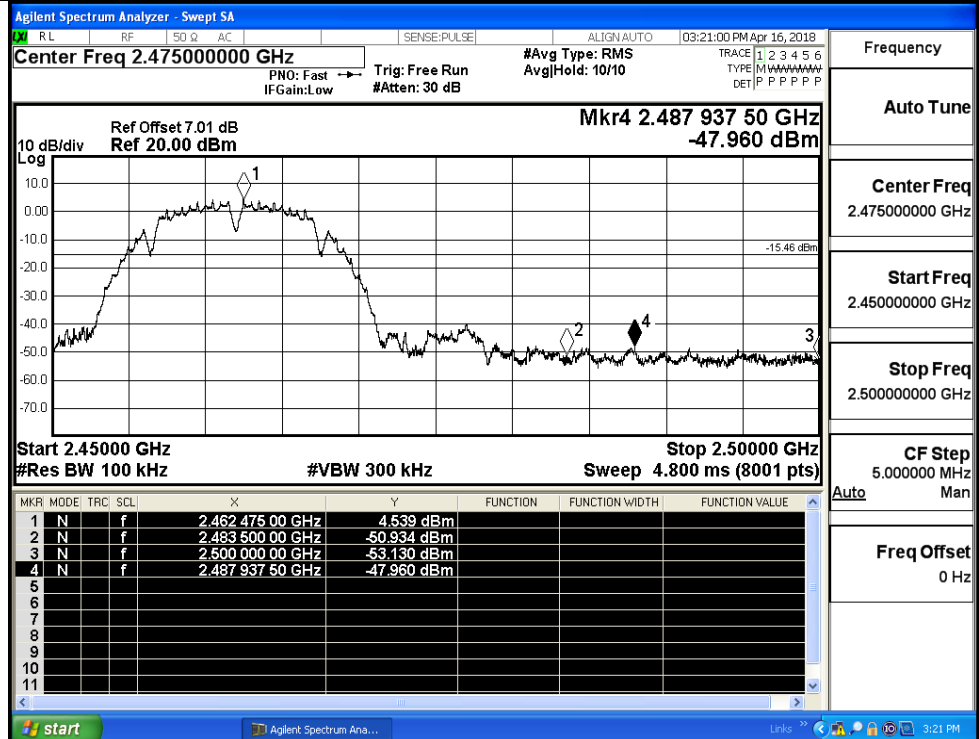
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.569	-46.037	-15.43	PASS
	HCH	4.539	-47.960	-15.46	PASS
11G	LCH	-1.302	-49.038	-21.3	PASS
	HCH	-1.970	-49.411	-21.97	PASS
11N20SISO	LCH	-1.664	-48.661	-21.66	PASS
	HCH	-1.852	-48.329	-21.85	PASS

Test Graphs

11B/LCH



11B/HCH



Frequency

Auto Tune

Center Freq

2.475000000 GHz

Start Freq

2.450000000 GHz

Stop Freq

2.500000000 GHz

CF Step

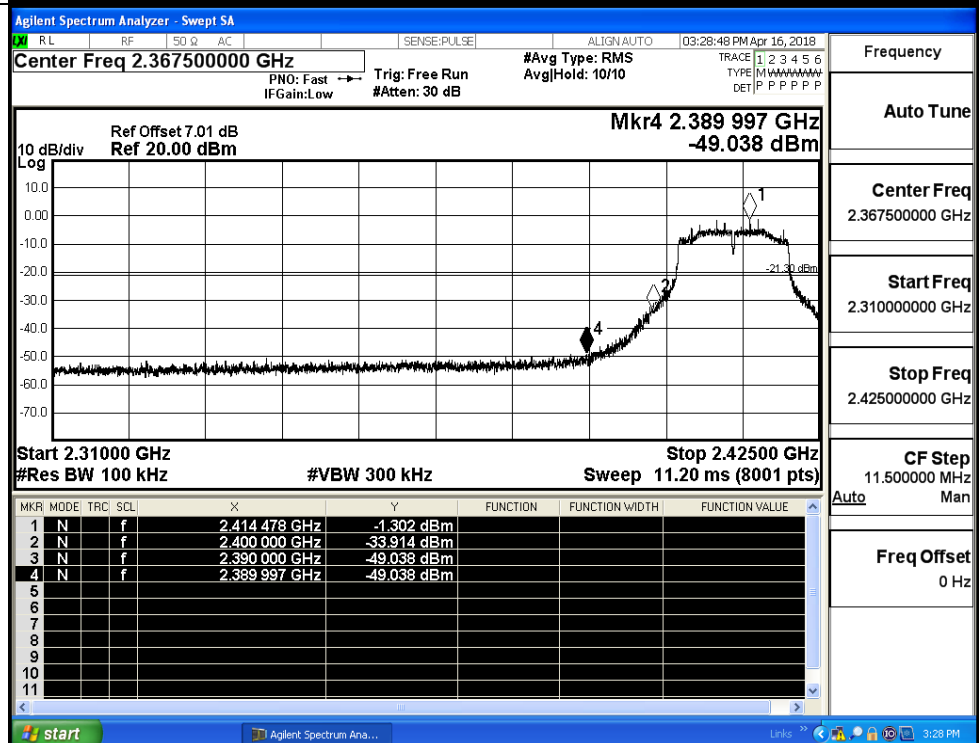
5.000000 MHz

Auto

Freq Offset

0 Hz

11G/LCH



Frequency

Auto Tune

Center Freq

2.367500000 GHz

Start Freq

2.310000000 GHz

Stop Freq

2.425000000 GHz

CF Step

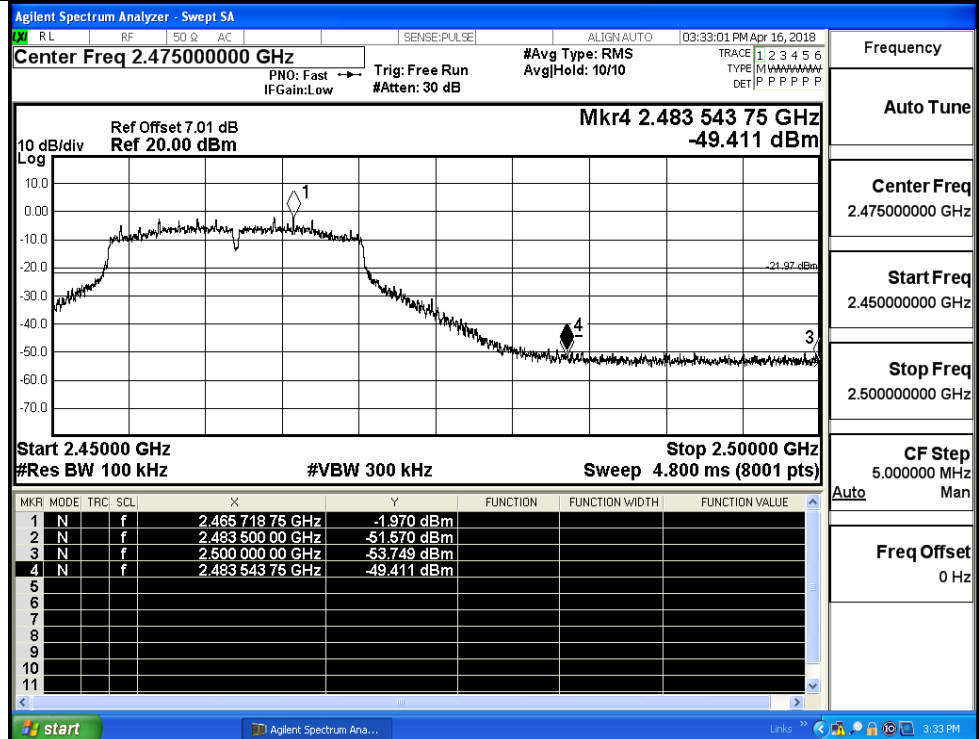
11.500000 MHz

Auto

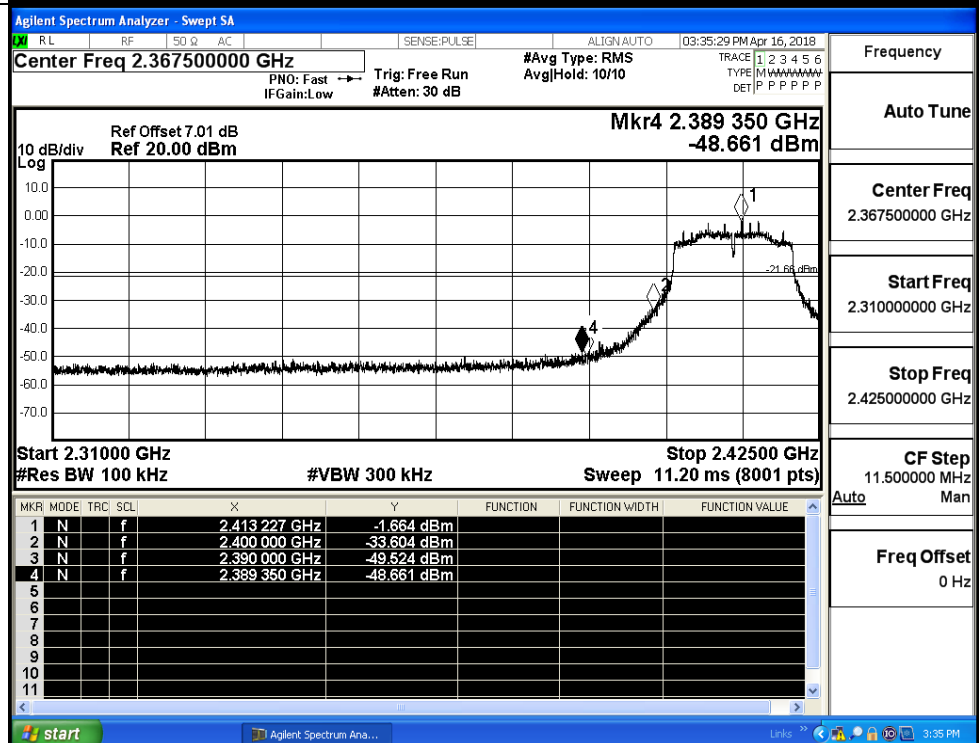
Freq Offset

0 Hz

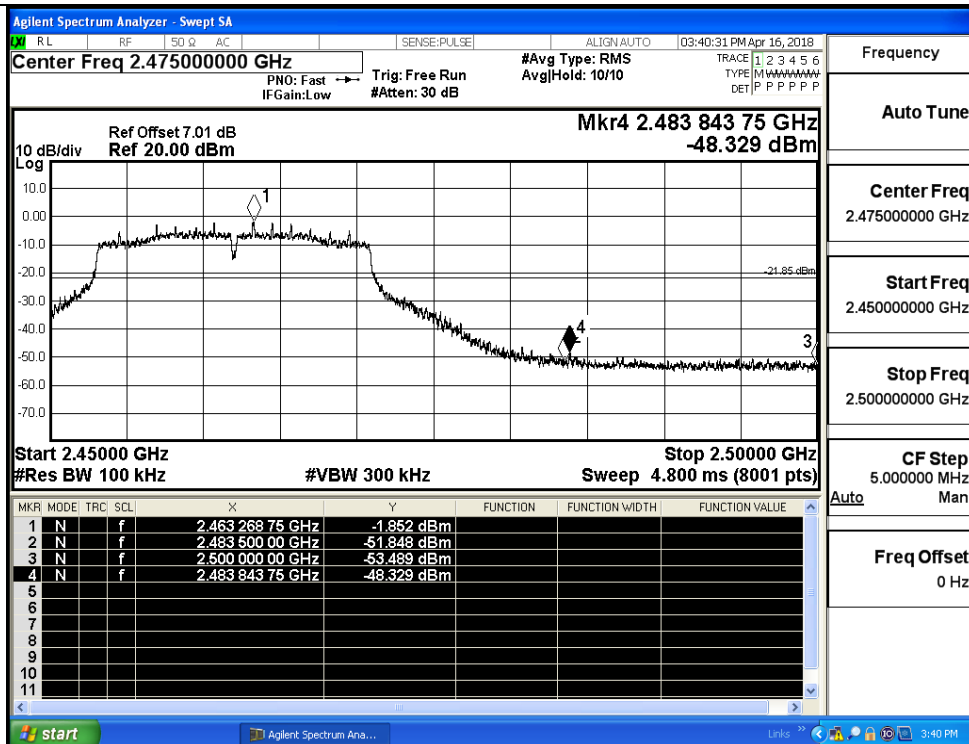
11G/HCH



11N20SISO/LCH



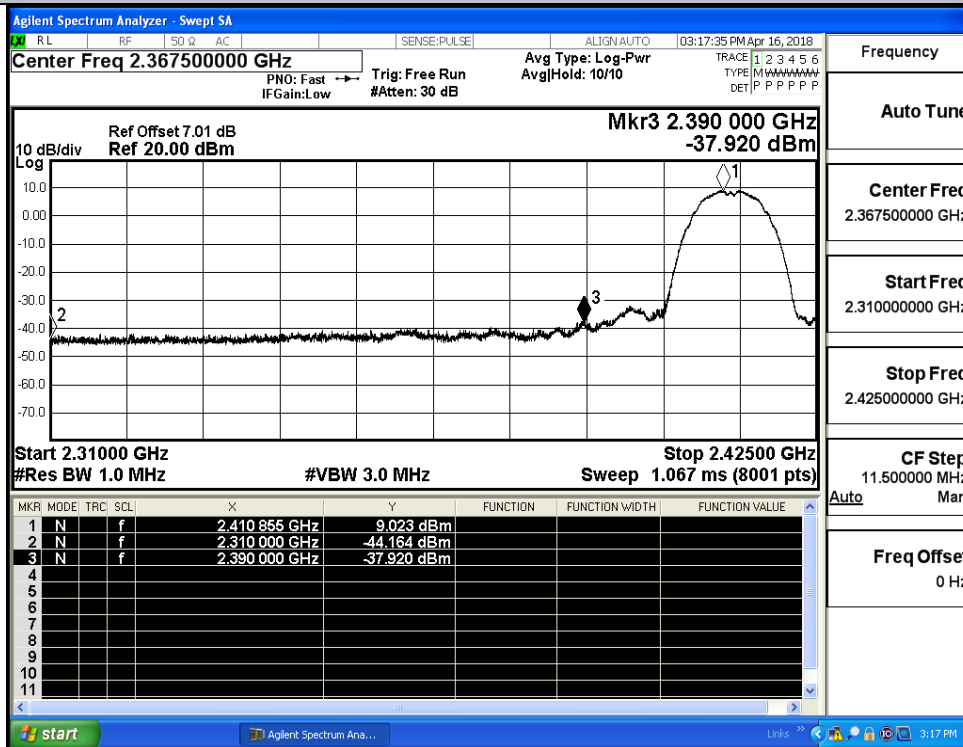
11N20SISO/HCH



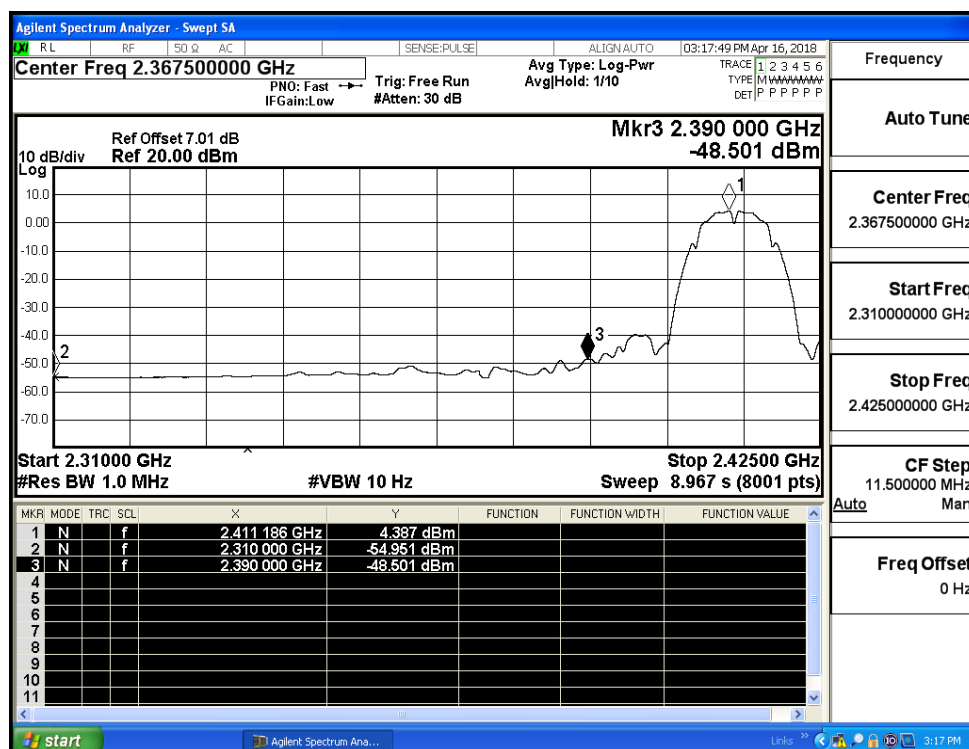
C.6 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-44.16	2.0	0	53.10	PEAK	74	PASS
	2412	Ant1	2310.0	-54.95	2.0	0	42.31	AV	54	PASS
	2412	Ant1	2390.0	-37.92	2.0	0	59.34	PEAK	74	PASS
	2412	Ant1	2390.0	-48.50	2.0	0	48.76	AV	54	PASS
	2462	Ant1	2483.5	-41.83	2.0	0	55.43	PEAK	74	PASS
	2462	Ant1	2483.5	-52.80	2.0	0	44.46	AV	54	PASS
	2462	Ant1	2500.0	-42.50	2.0	0	54.76	PEAK	74	PASS
	2462	Ant1	2500.0	-53.26	2.0	0	44.00	AV	54	PASS
11G	2412	Ant1	2310.0	-43.88	2.0	0	53.38	PEAK	74	PASS
	2412	Ant1	2310.0	-55.02	2.0	0	42.24	AV	54	PASS
	2412	Ant1	2390.0	-38.54	2.0	0	58.72	PEAK	74	PASS
	2412	Ant1	2390.0	-51.10	2.0	0	46.16	AV	54	PASS
	2462	Ant1	2483.5	-42.01	2.0	0	55.25	PEAK	74	PASS
	2462	Ant1	2483.5	-52.48	2.0	0	44.78	AV	54	PASS
	2462	Ant1	2500.0	-44.11	2.0	0	53.15	PEAK	74	PASS
	2462	Ant1	2500.0	-53.47	2.0	0	43.79	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-45.40	2.0	0	51.86	PEAK	74	PASS
	2412	Ant1	2310.0	-55.00	2.0	0	42.26	AV	54	PASS
	2412	Ant1	2390.0	-39.41	2.0	0	57.85	PEAK	74	PASS
	2412	Ant1	2390.0	-51.05	2.0	0	46.21	AV	54	PASS
	2462	Ant1	2483.5	-41.49	2.0	0	55.77	PEAK	74	PASS
	2462	Ant1	2483.5	-51.93	2.0	0	45.33	AV	54	PASS
	2462	Ant1	2500.0	-42.34	2.0	0	54.92	PEAK	74	PASS
	2462	Ant1	2500.0	-53.55	2.0	0	43.71	AV	54	PASS

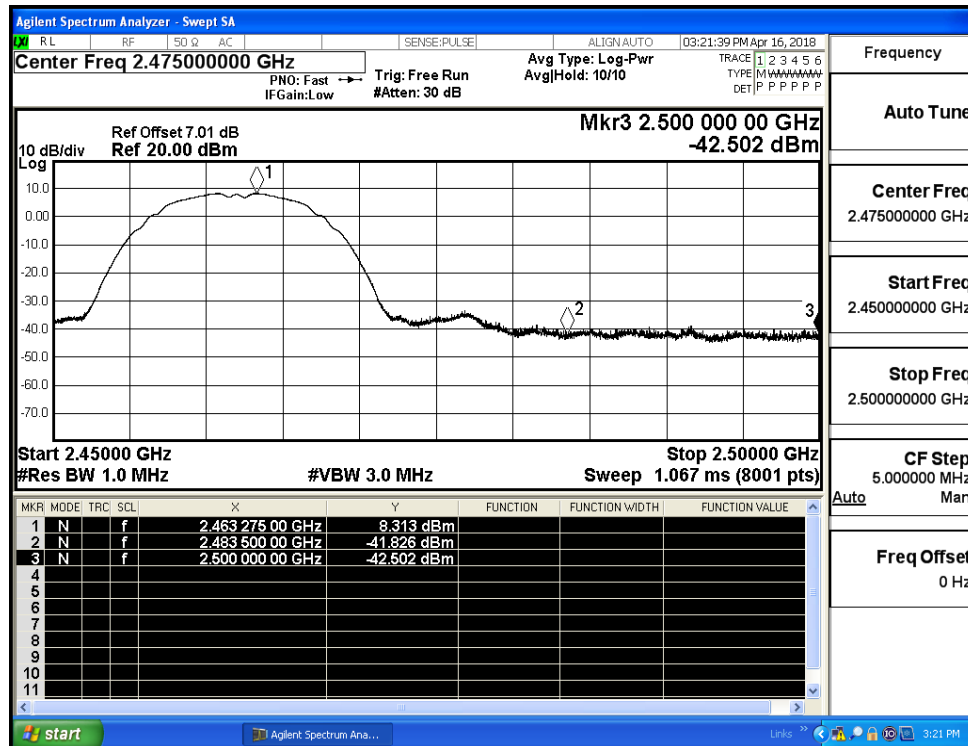
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



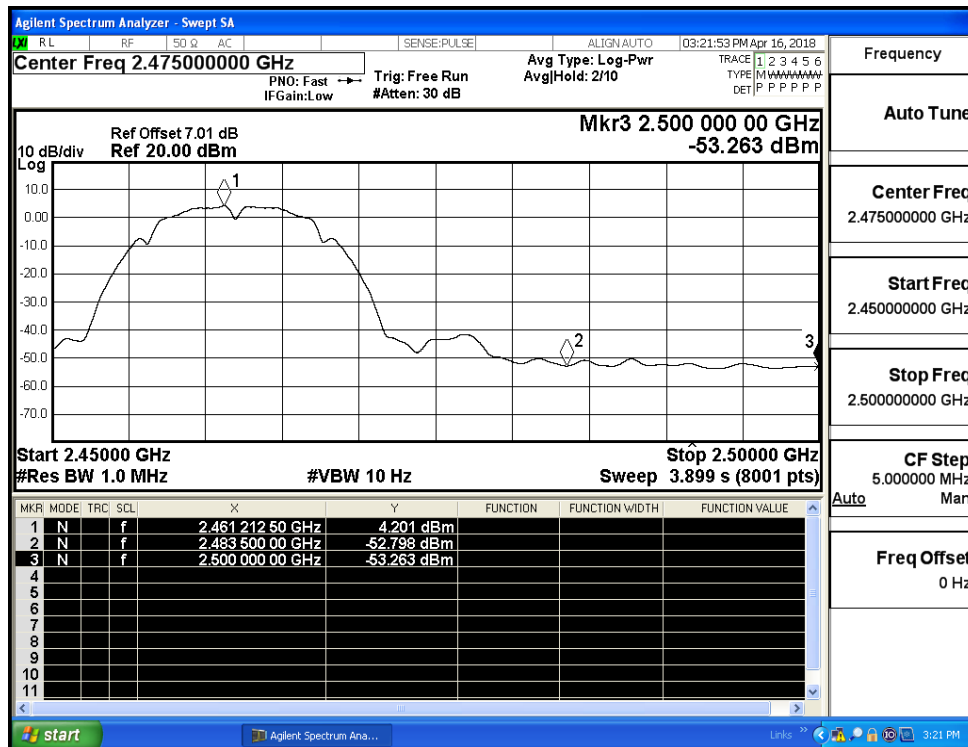
Restrict-band band-edge measurements_11B_2412_Ant1_AV



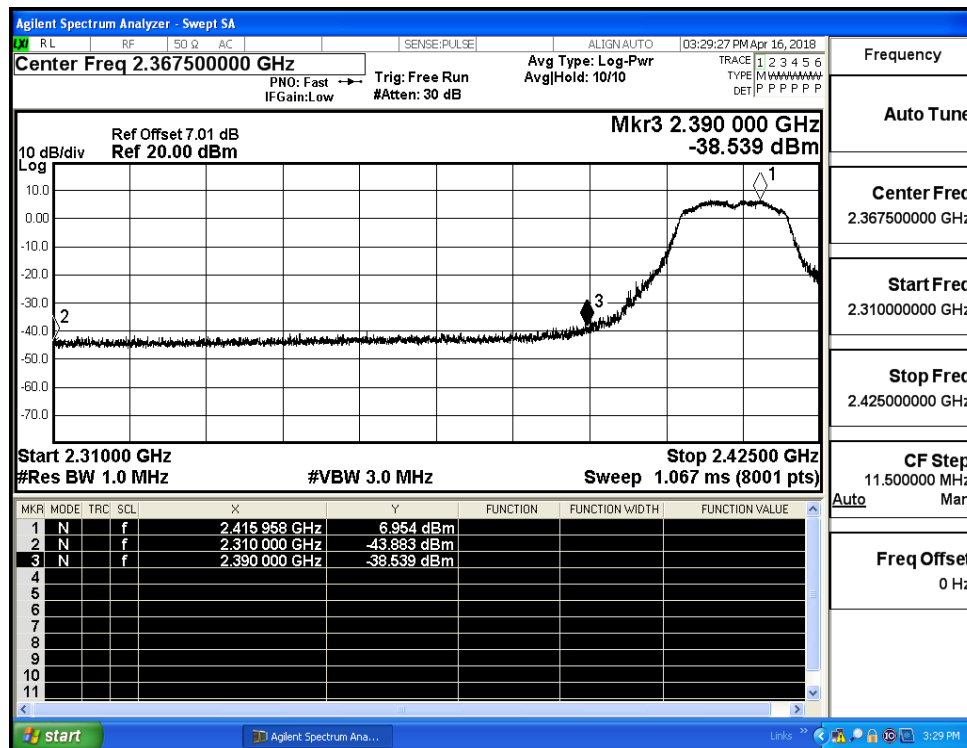
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



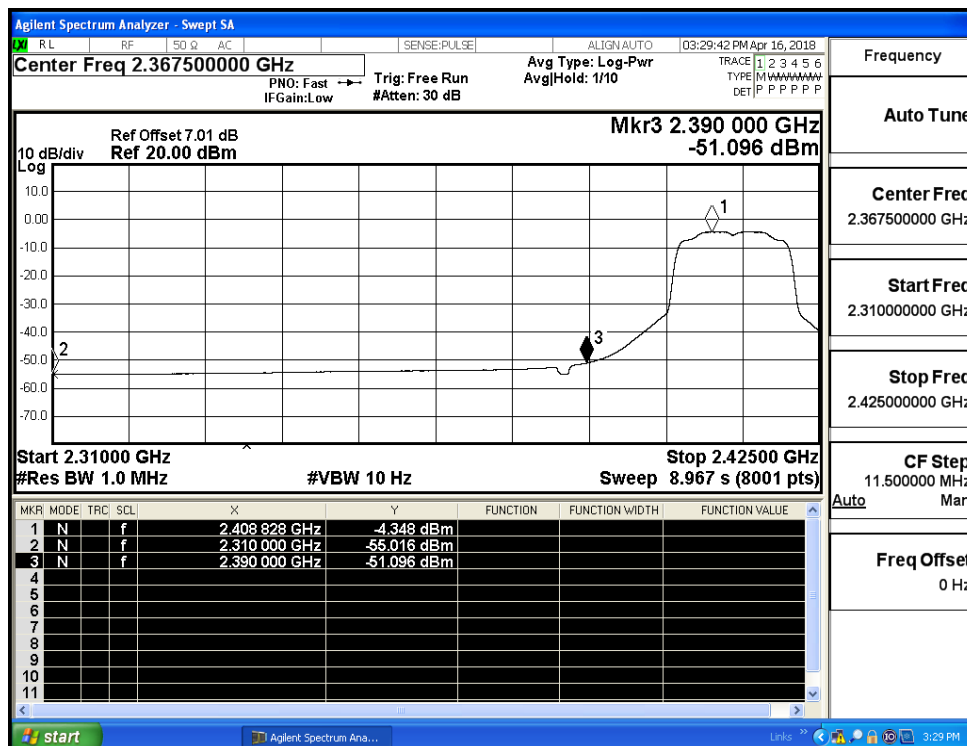
Restrict-band band-edge measurements_11B_2462_Ant1_AV



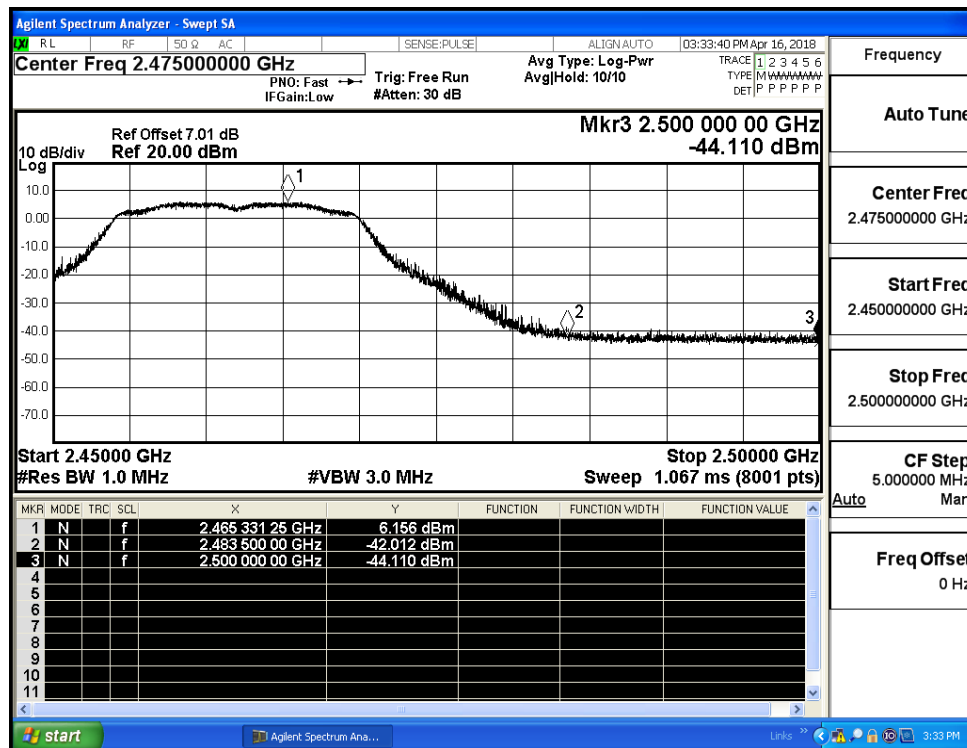
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



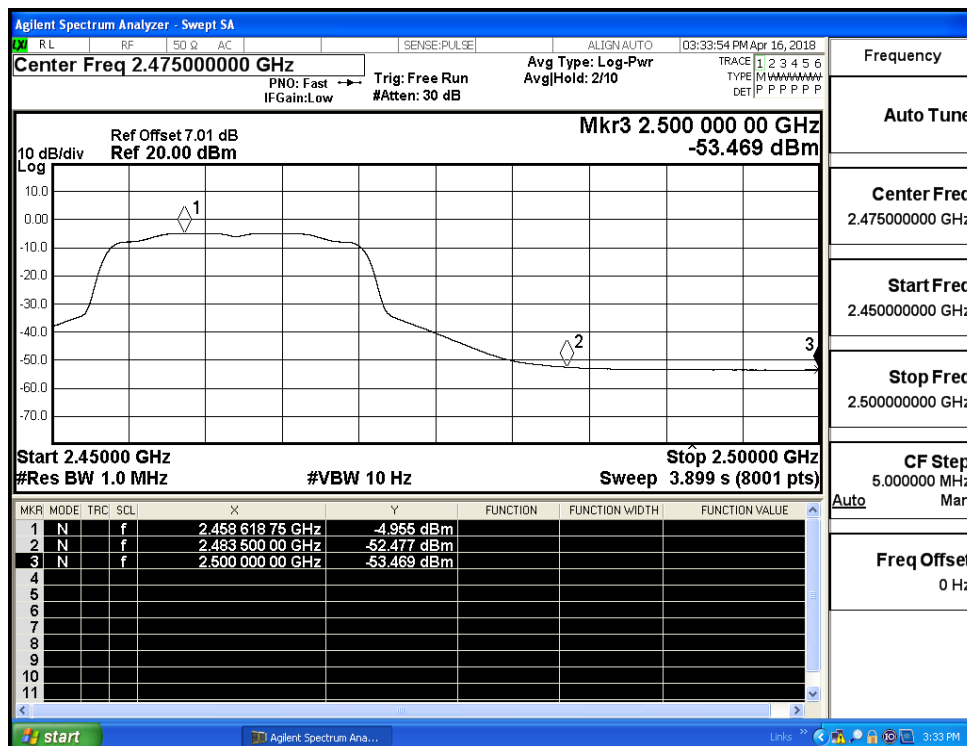
Restrict-band band-edge measurements_11G_2412_Ant1_AV



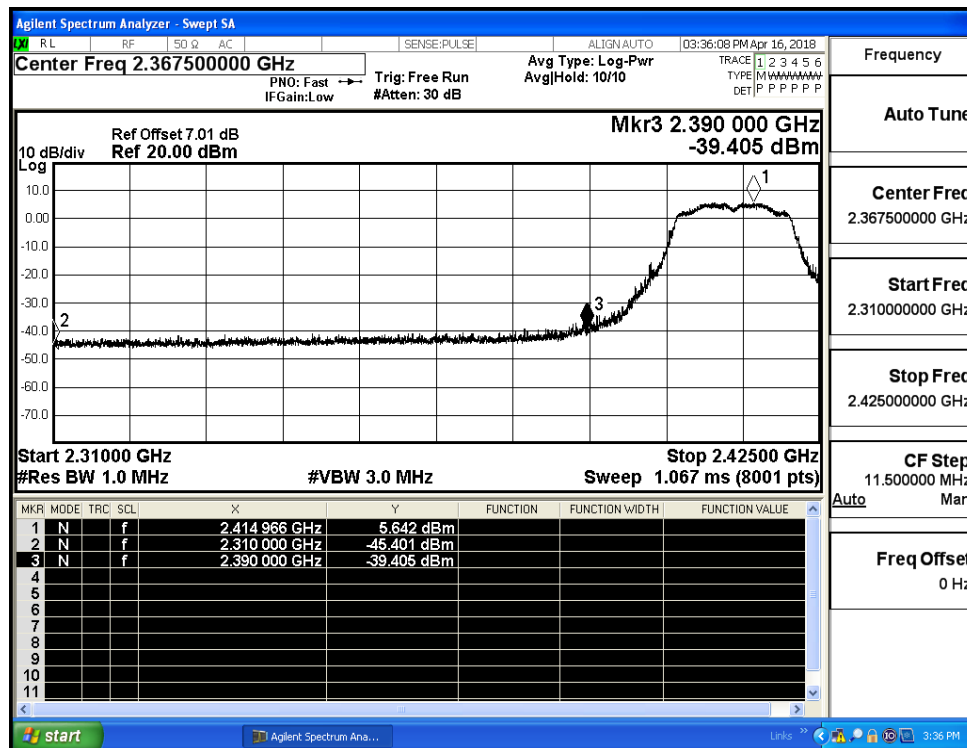
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



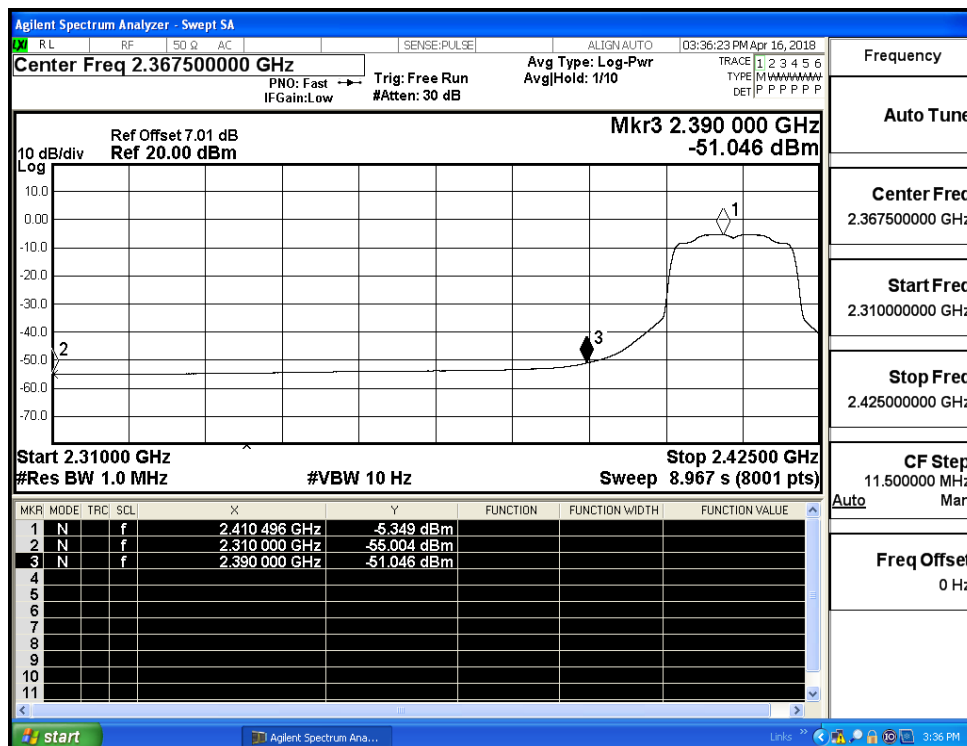
Restrict-band band-edge measurements_11G_2462_Ant1_AV



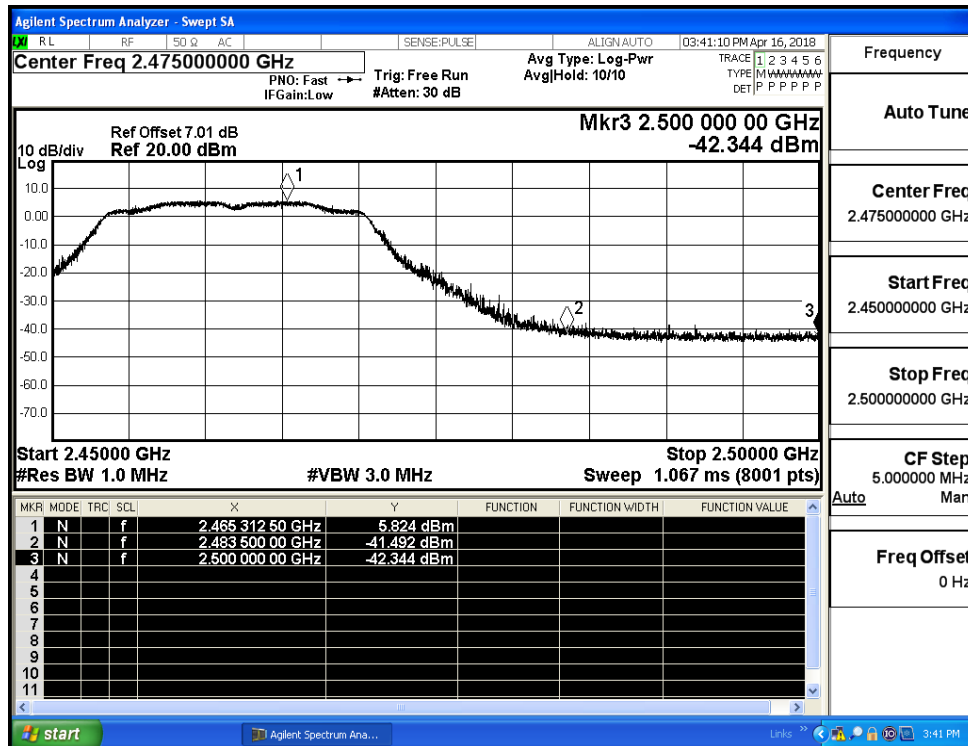
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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

