

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: BASE STATION

Trade Mark: N/A

Test Model: WVODB1

Environmental Conditions

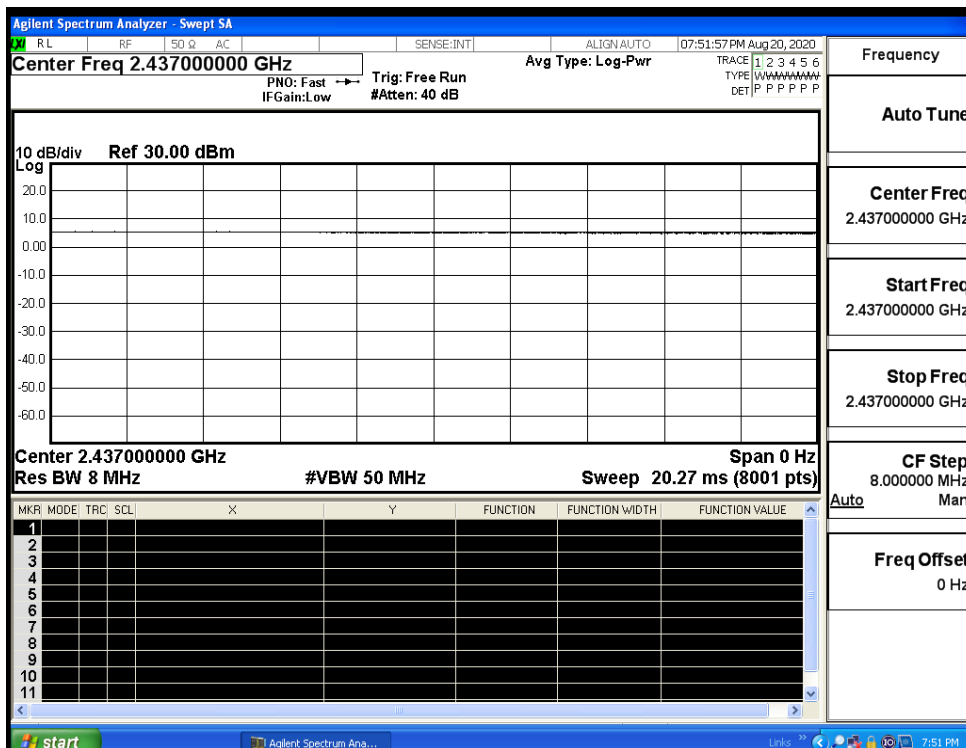
Temperature:	23.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

A.1 Duty Cycle

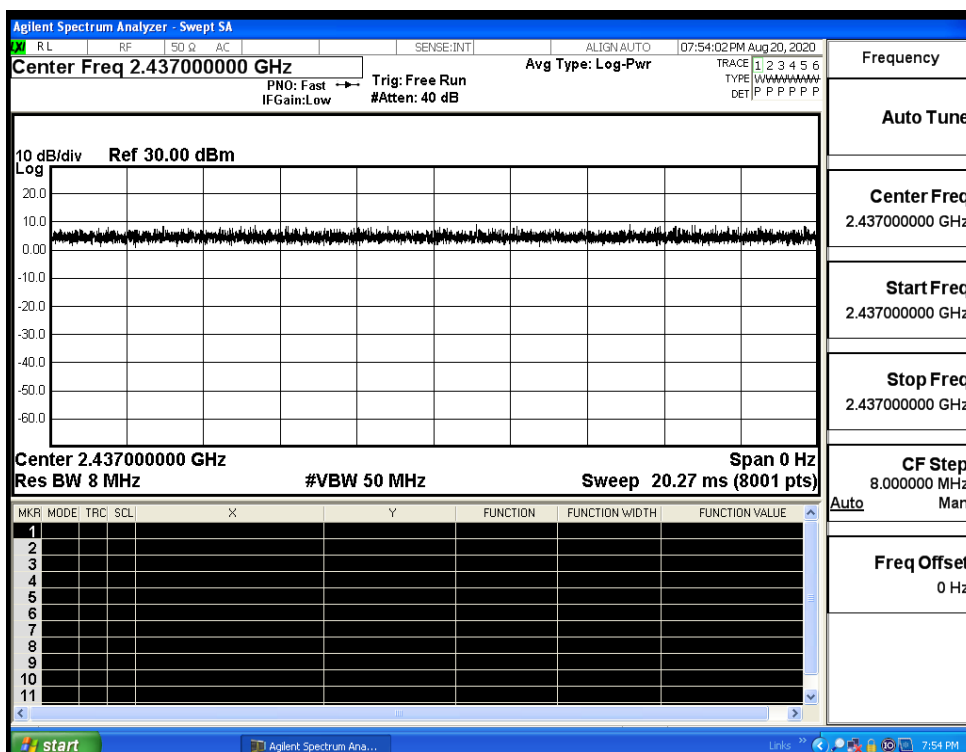
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20SISO	2437	Ant0	100	PASS
11N40SISO	2437	Ant0	100	PASS

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

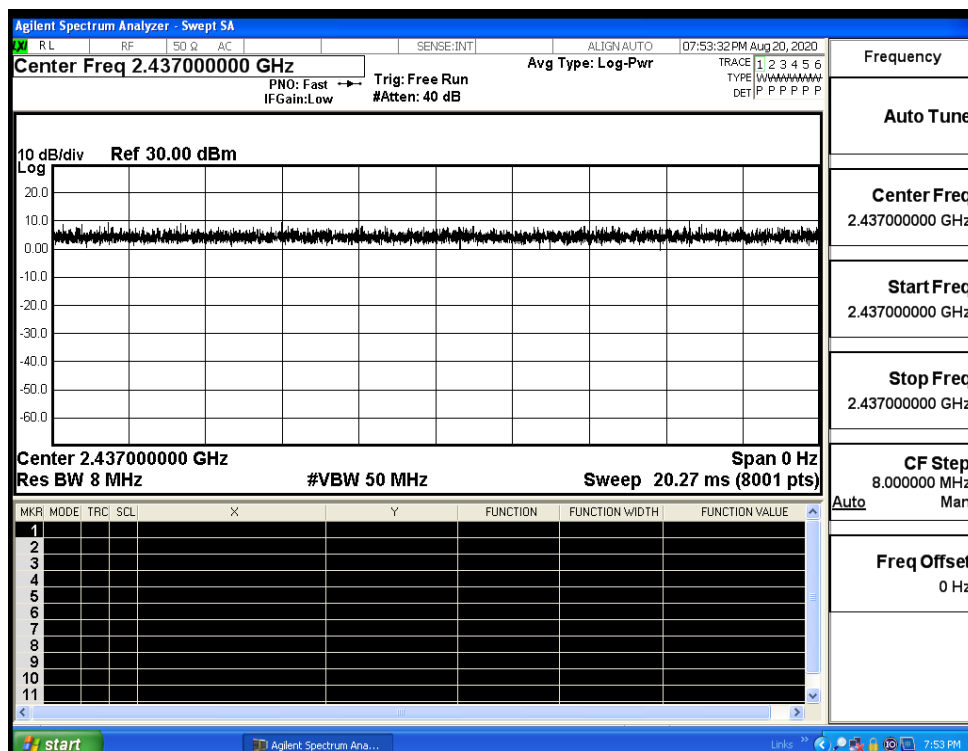
Duty Cycle_11B_2437_Ant0



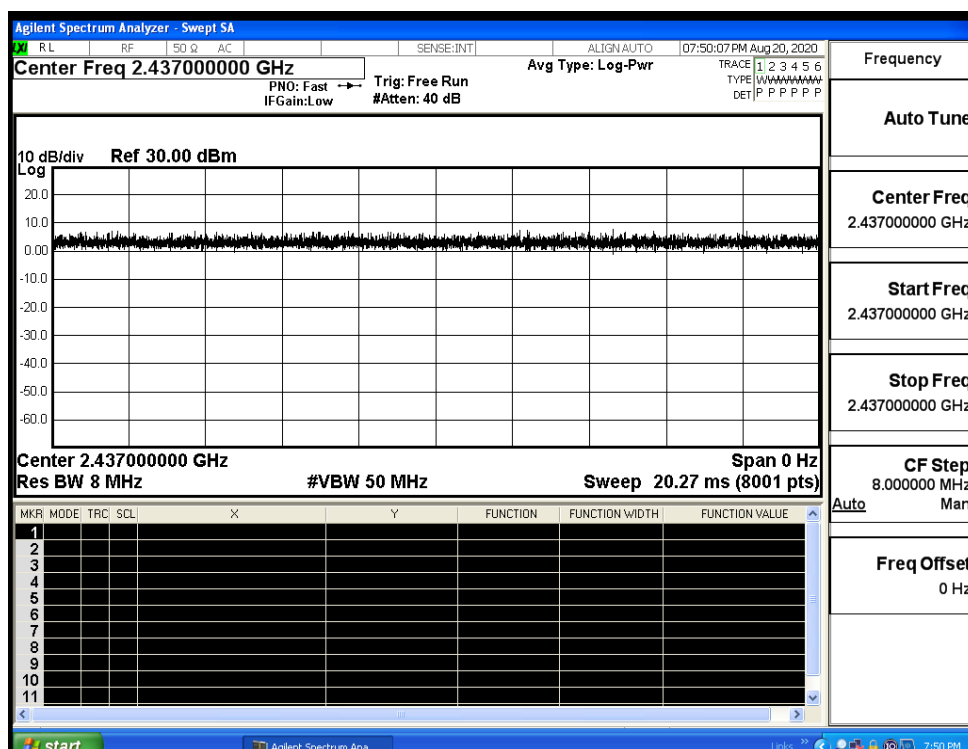
Duty Cycle_11G_2437_Ant0



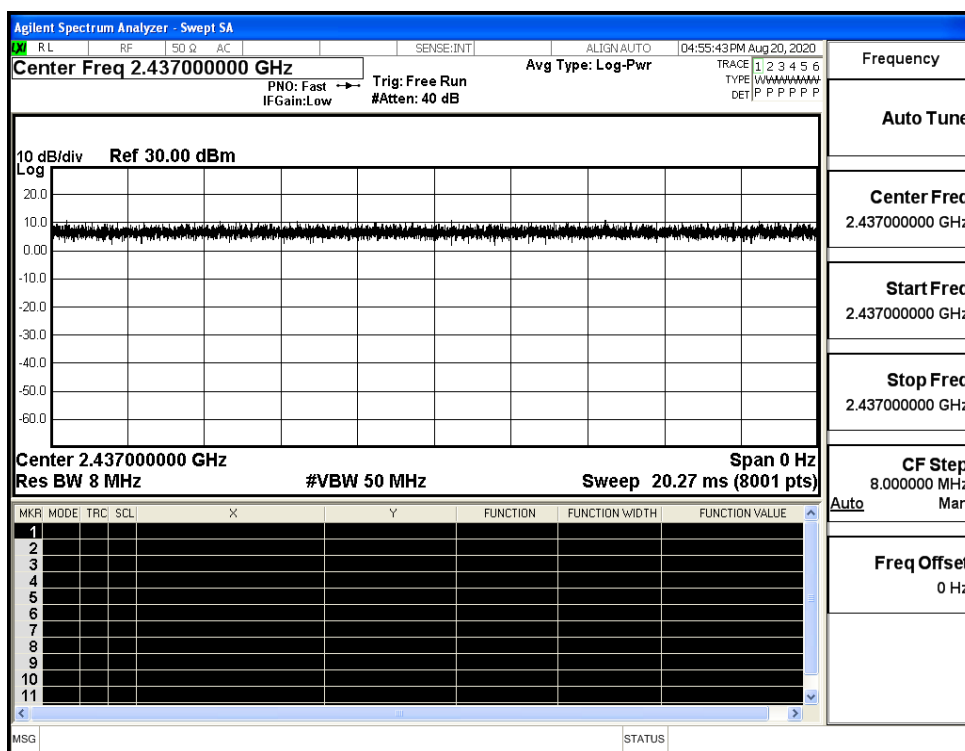
Duty Cycle_11N20SISO_2437_Ant0



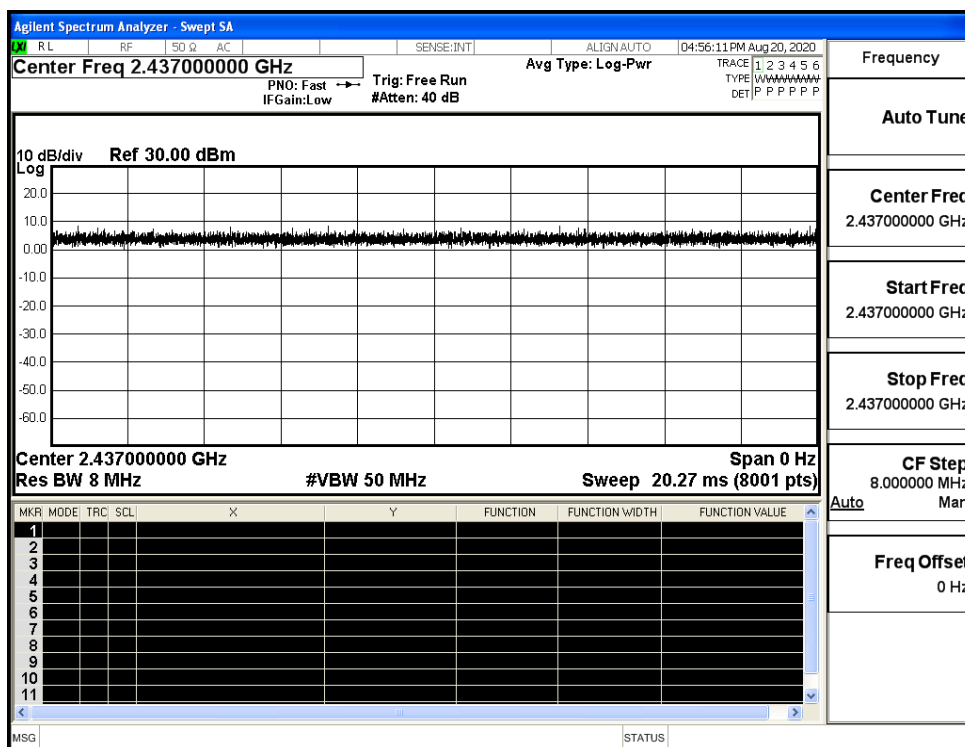
Duty Cycle_11N40SISO_2437_Ant0



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

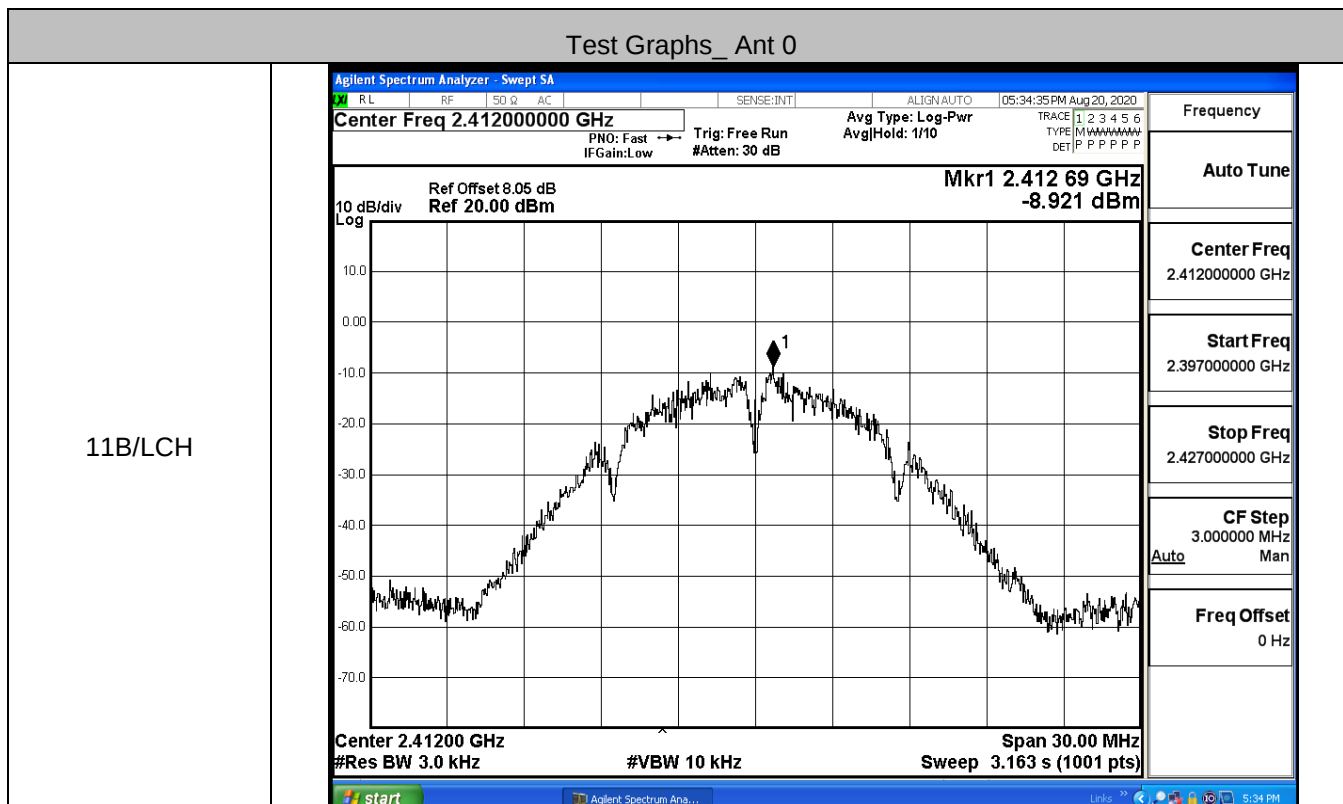


A.2 Maximum Conducted Output Power

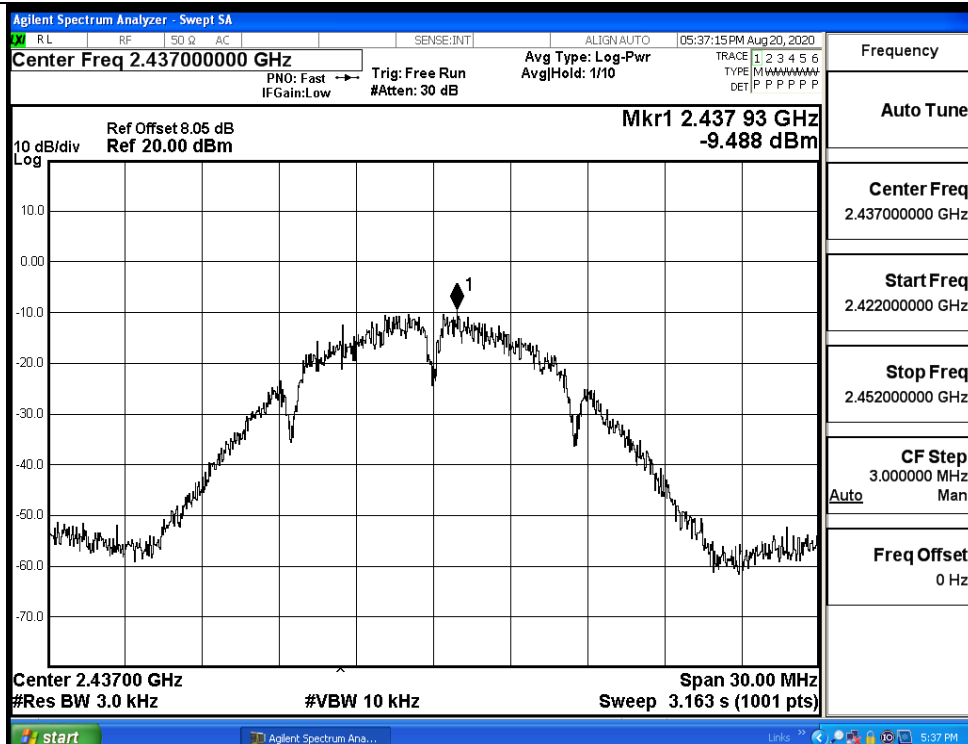
Mode	Channel	Peak Power [dBm]			Limit [dBm]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	16.15	18.42	/	30	PASS
	MCH	16.27	18.88	/	30	PASS
	HCH	16.45	19.53	/	30	PASS
11G	LCH	21.72	18.6	/	30	PASS
	MCH	21.97	19.57	/	30	PASS
	HCH	22.36	20.54	/	30	PASS
11N20	LCH	21.71	19.36	23.70	30	PASS
	MCH	22.10	20.07	24.21	30	PASS
	HCH	22.47	20.9	24.77	30	PASS
11N40	LCH	18.82	19.94	22.43	30	PASS
	MCH	20.01	20.35	23.19	30	PASS
	HCH	21.04	20.83	23.95	30	PASS

A.3 Maximum Power Spectral Density

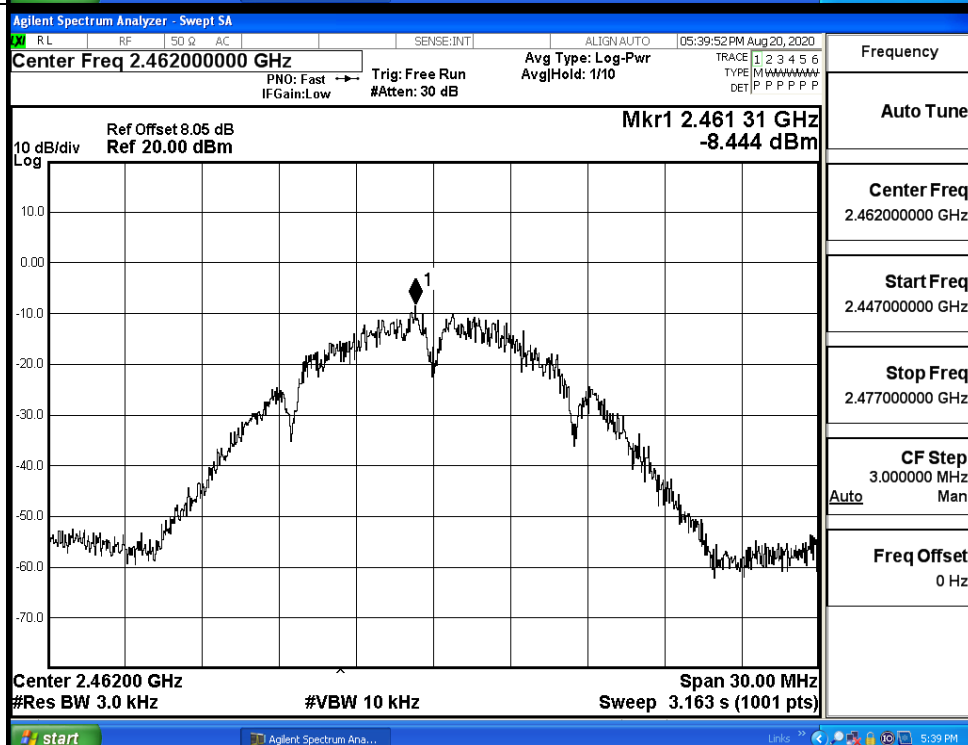
Mode	Channel	Meas.Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	-8.921	-14.627	/	8	PASS
	MCH	-9.488	-14.054	/	8	PASS
	HCH	-8.444	-13.398	/	8	PASS
11G	LCH	-12.732	-17.055	/	8	PASS
	MCH	-11.853	-16.875	/	8	PASS
	HCH	-12.361	-15.816	/	8	PASS
11N20	LCH	-12.672	-17.182	-11.356	8	PASS
	MCH	-12.233	-16.490	-10.849	8	PASS
	HCH	-10.569	-15.418	-9.339	8	PASS
11N40	LCH	-16.775	-18.982	-14.729	8	PASS
	MCH	-17.179	-17.607	-14.377	8	PASS
	HCH	-15.900	-16.500	-13.179	8	PASS

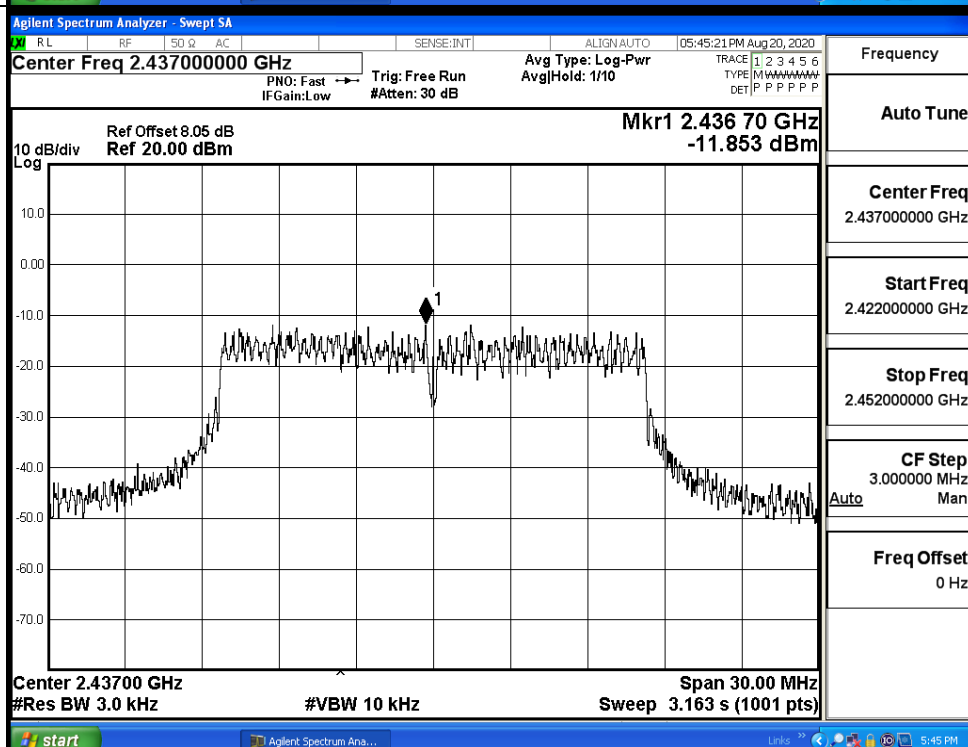
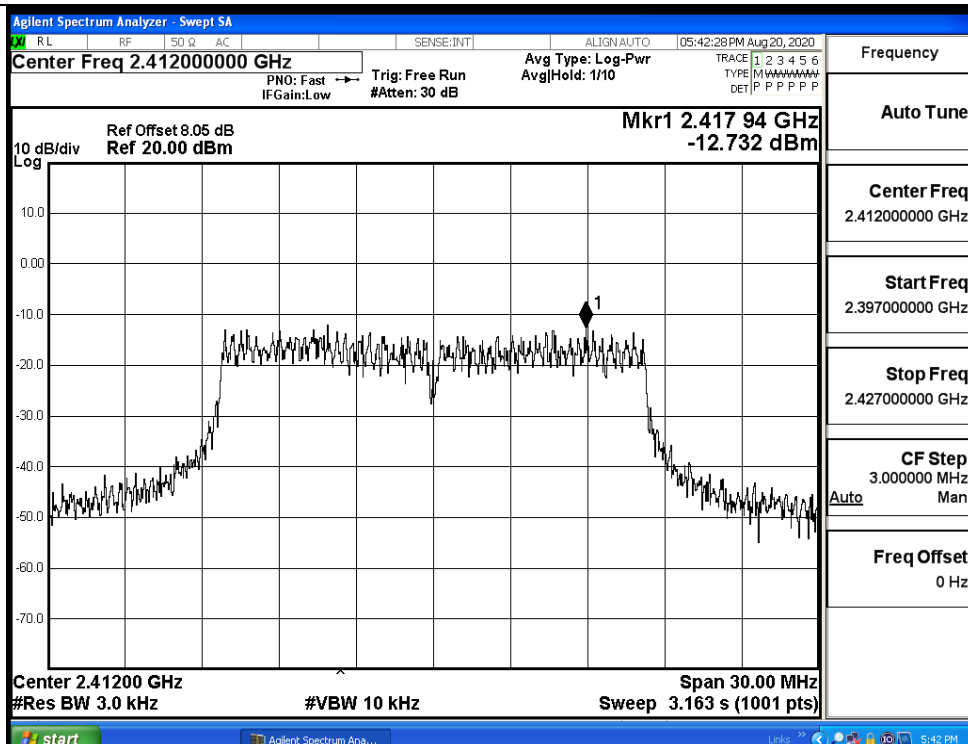


11B/MCH

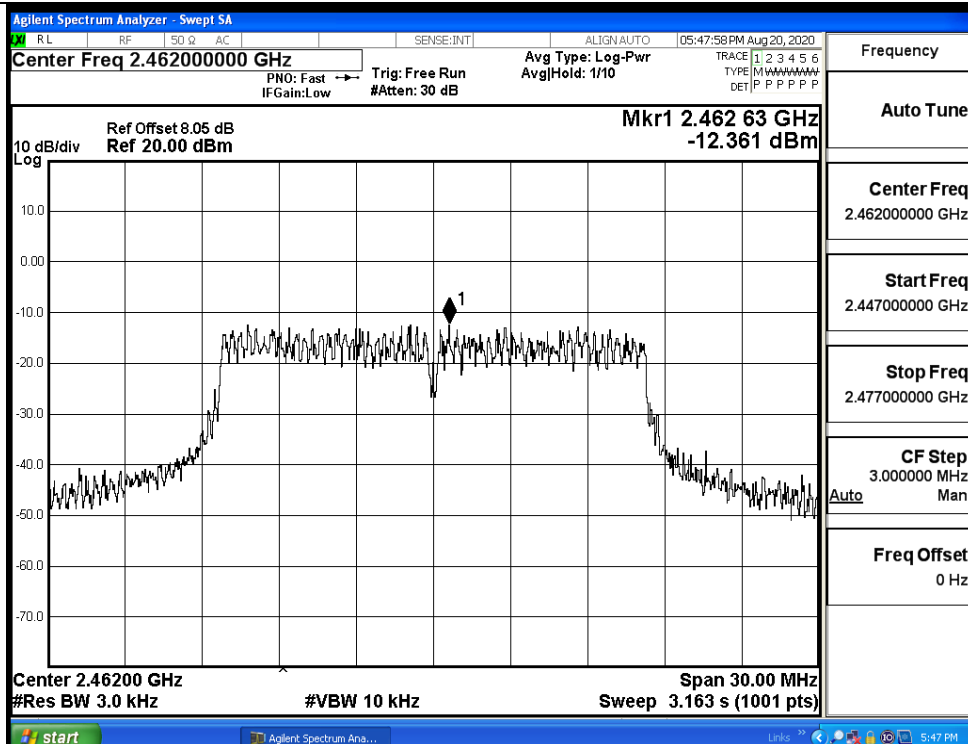


11B/HCH





11G/HCH



Frequency

Auto Tune

Center Freq
2.46200000 GHz

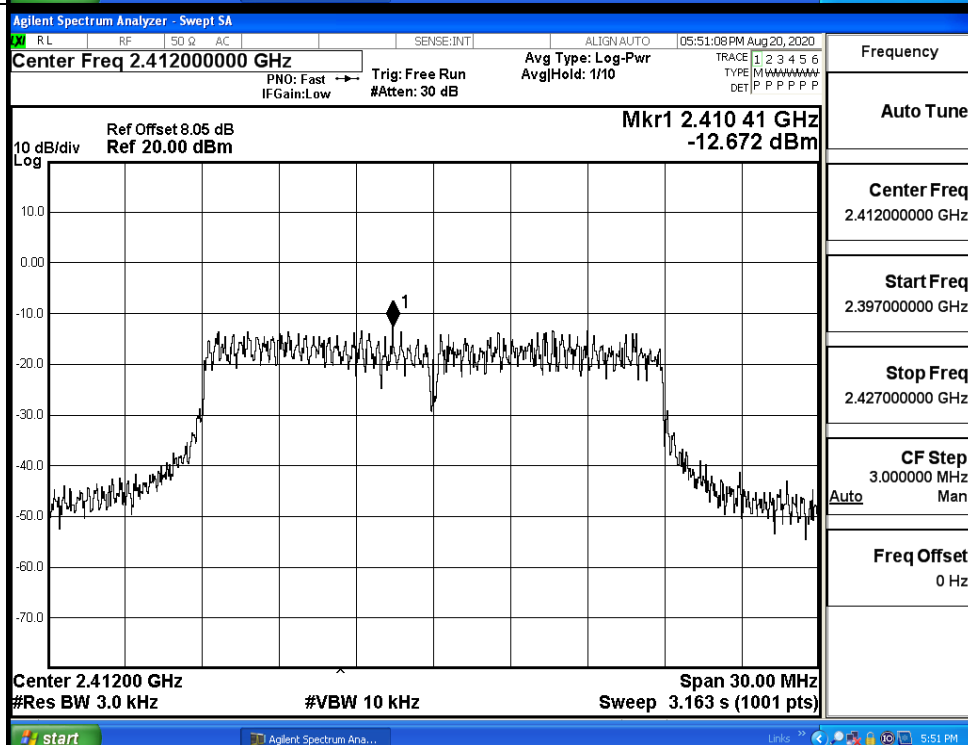
Start Freq
2.447000000 GHz

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

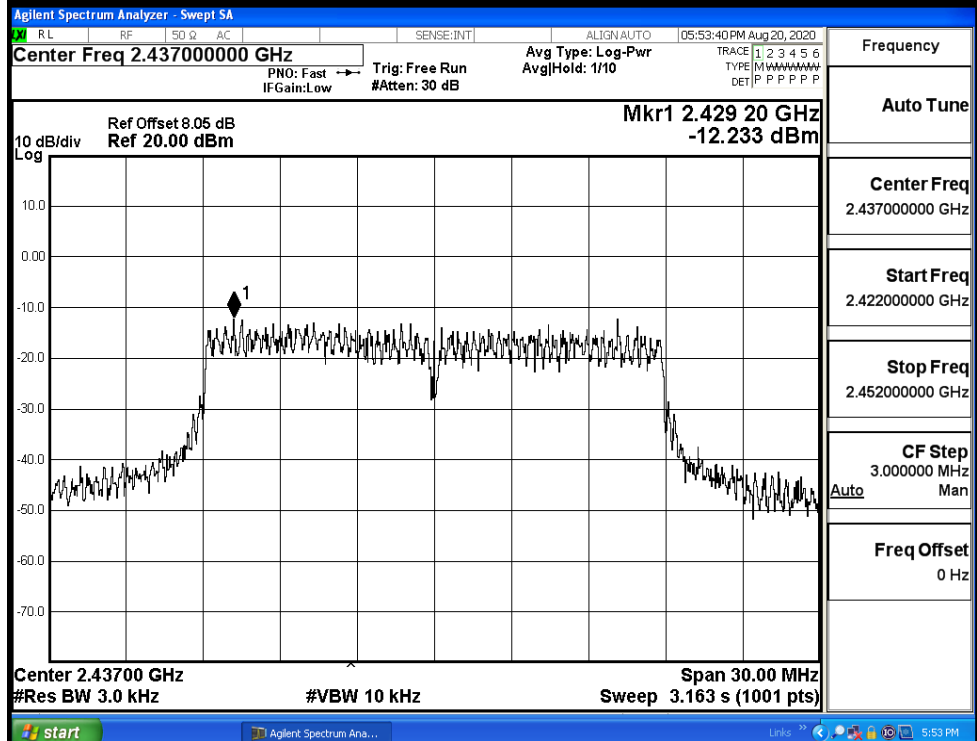
Start Freq
2.397000000 GHz

Stop Freq
2.427000000 GHz

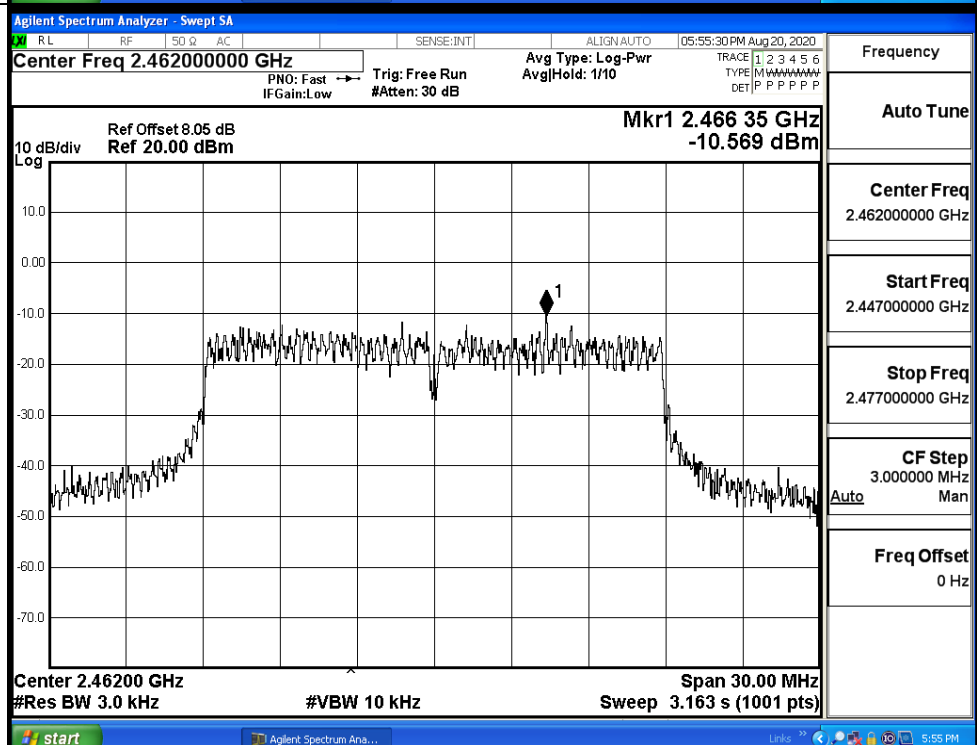
CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

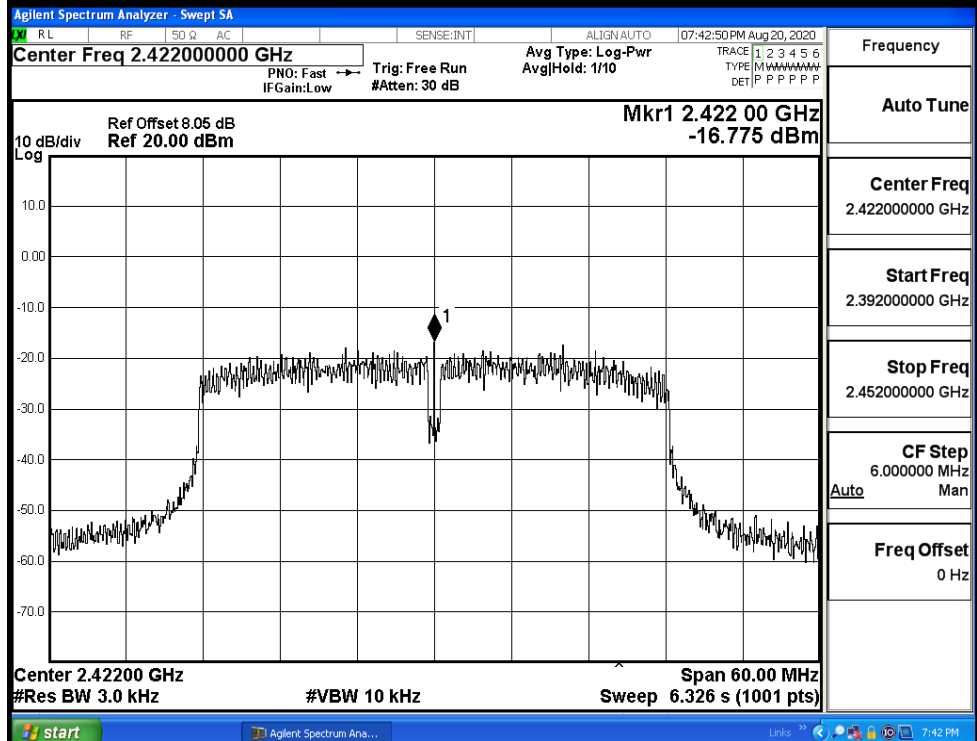
11N20SISO/MCH



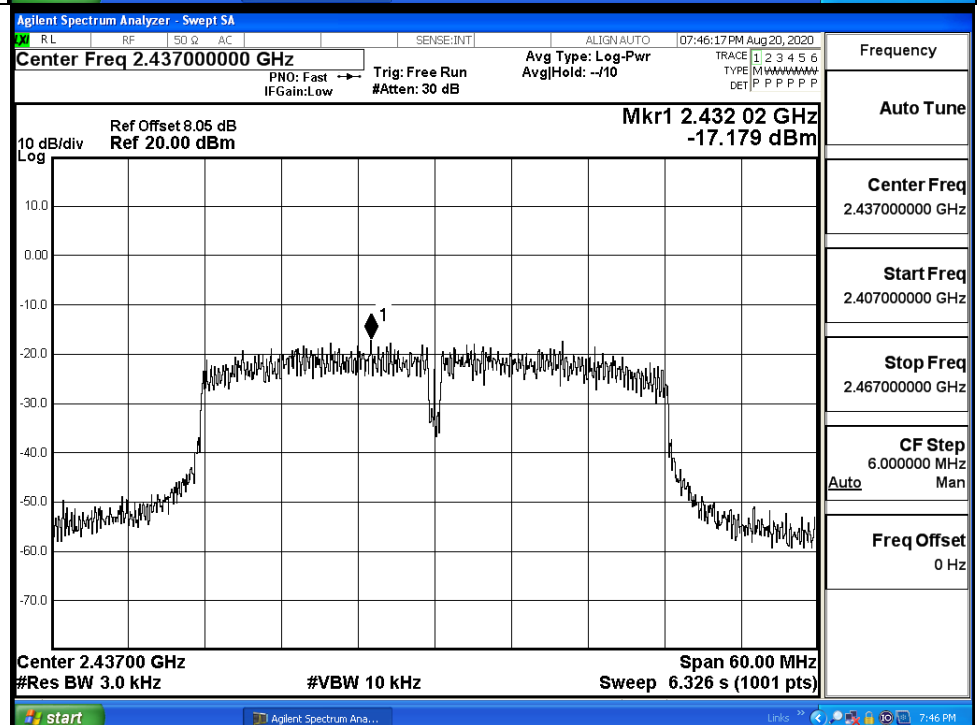
11N20SISO/HCH



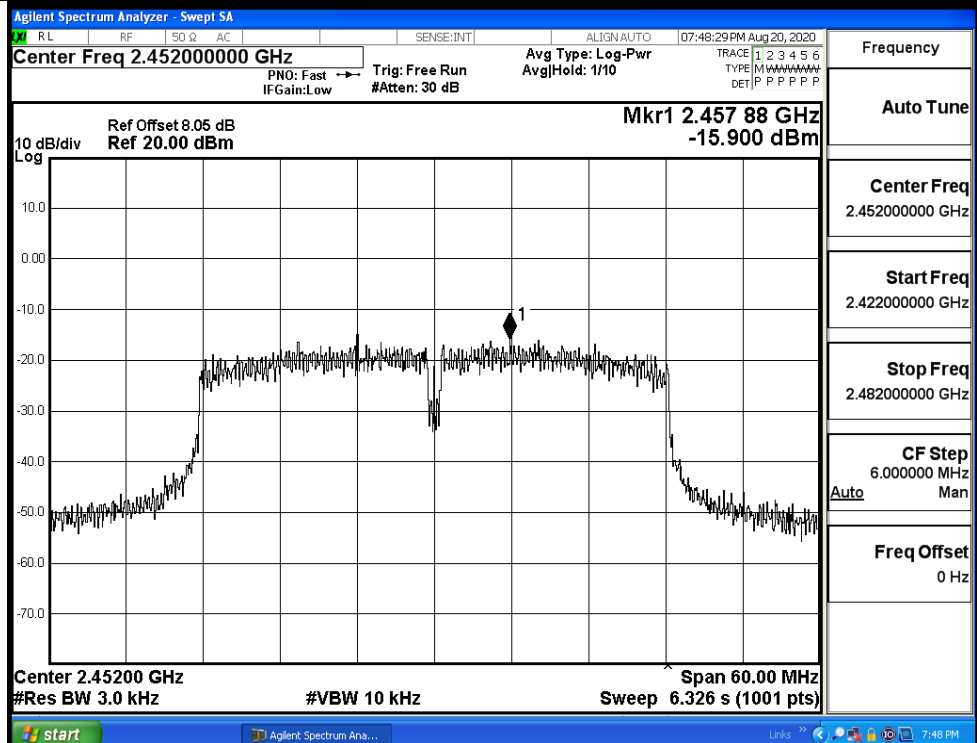
11N40SISO/LCH



11N40SISO/MCH

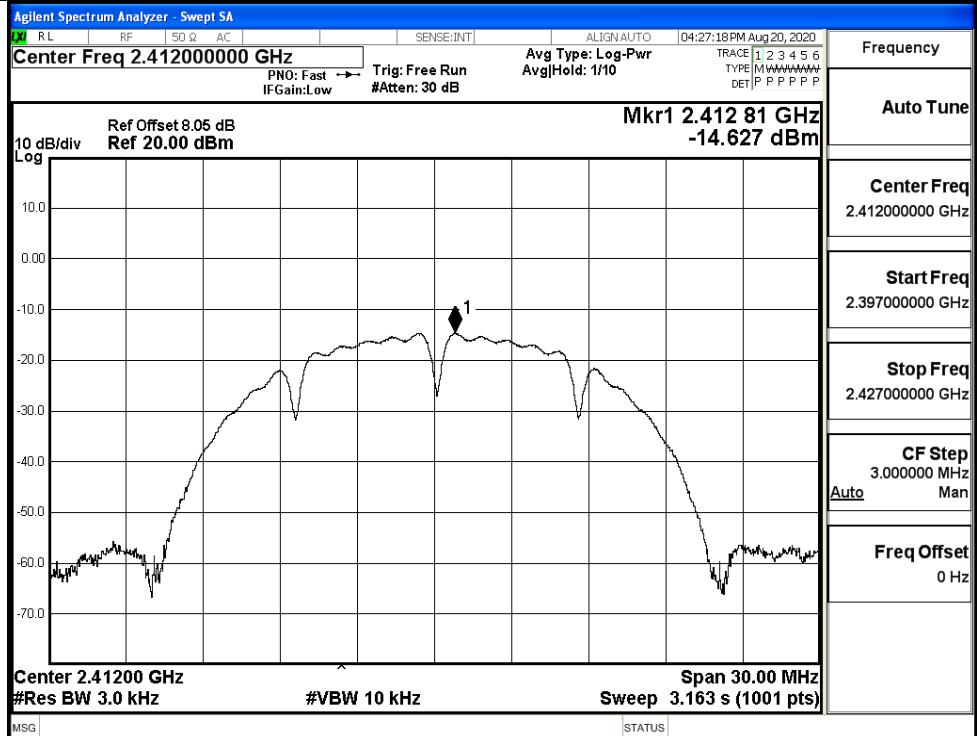


11N40SISO/HCH

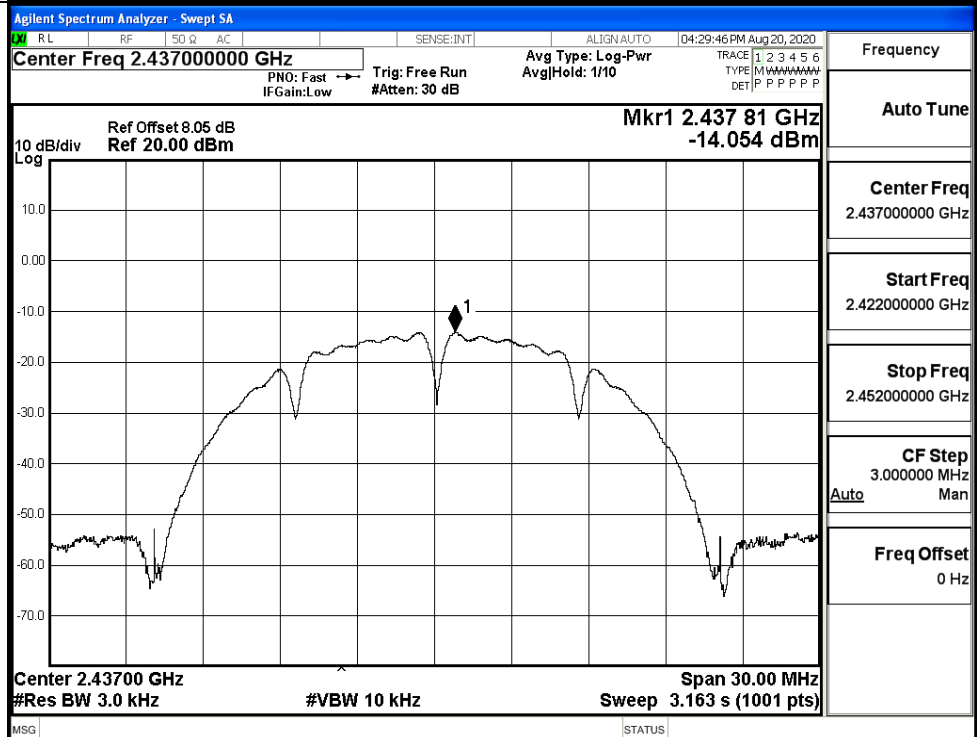


Test Graphs_ Ant 1

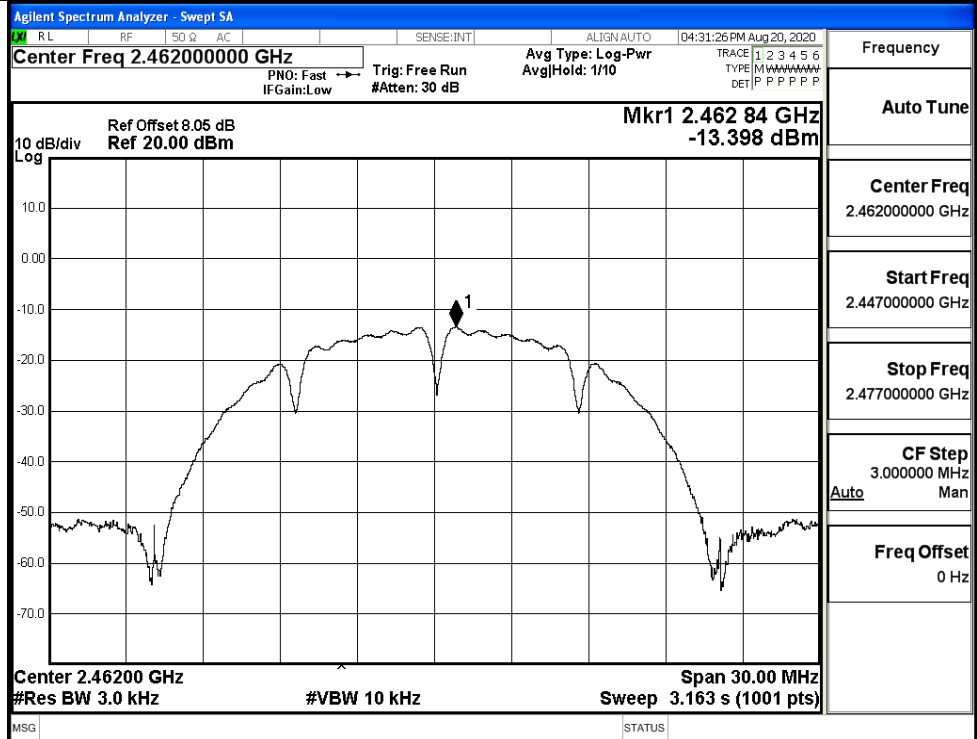
11B/LCH



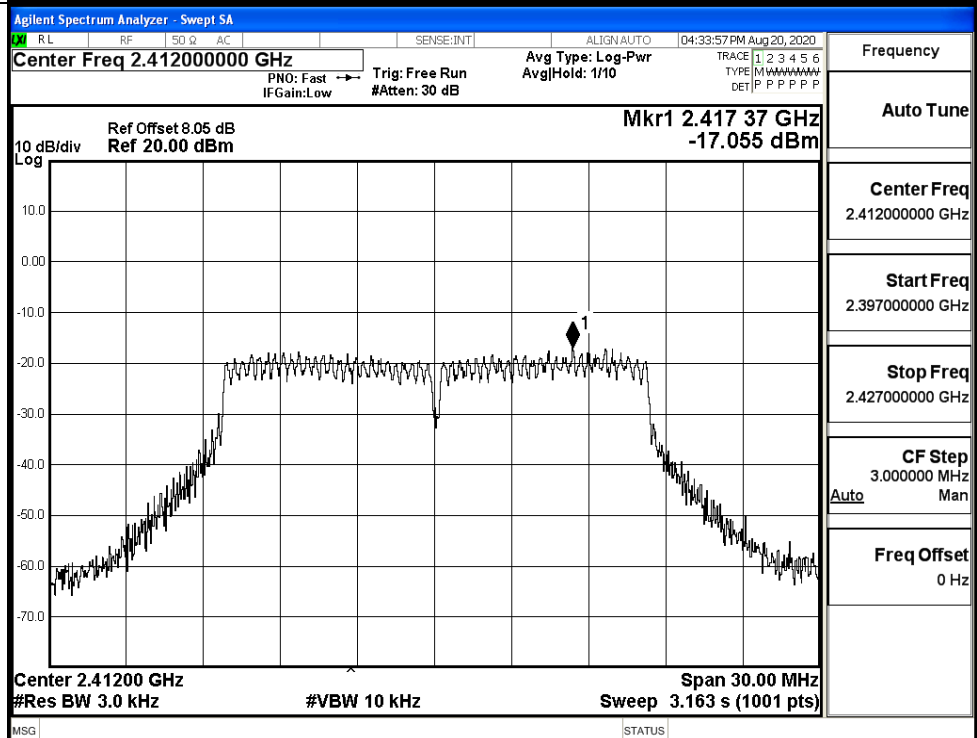
11B/MCH



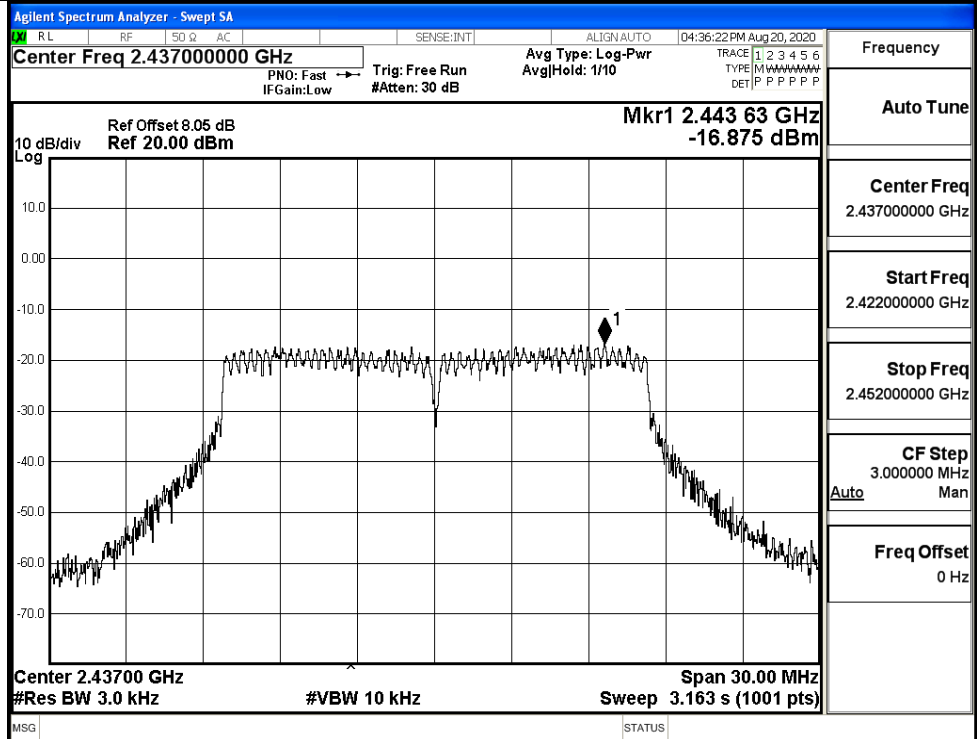
11B/HCH



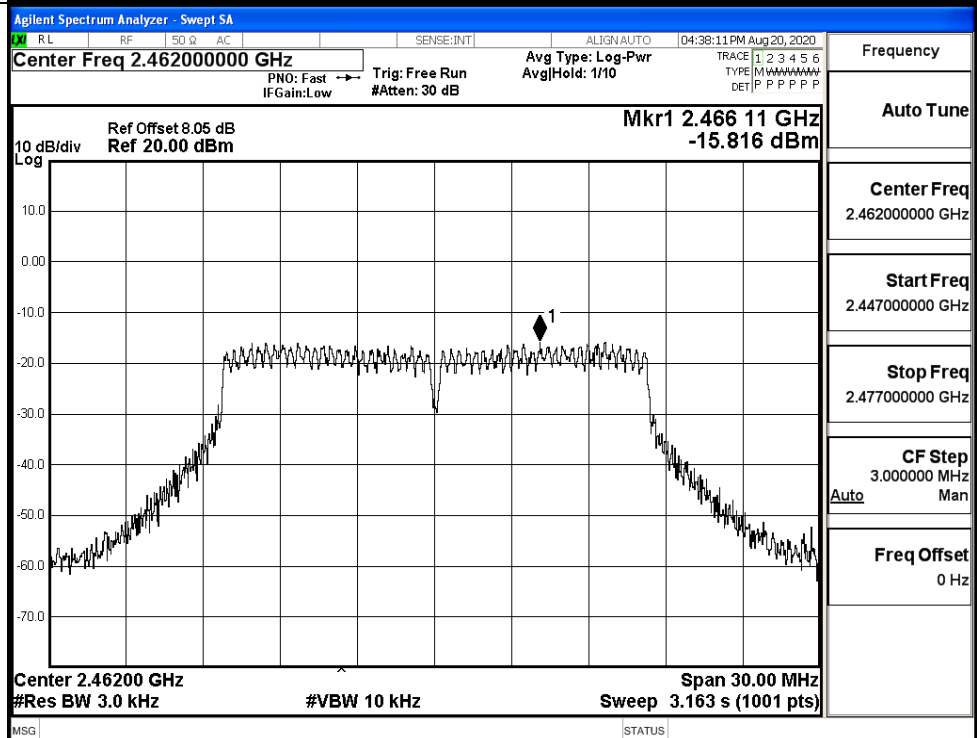
11G/LCH



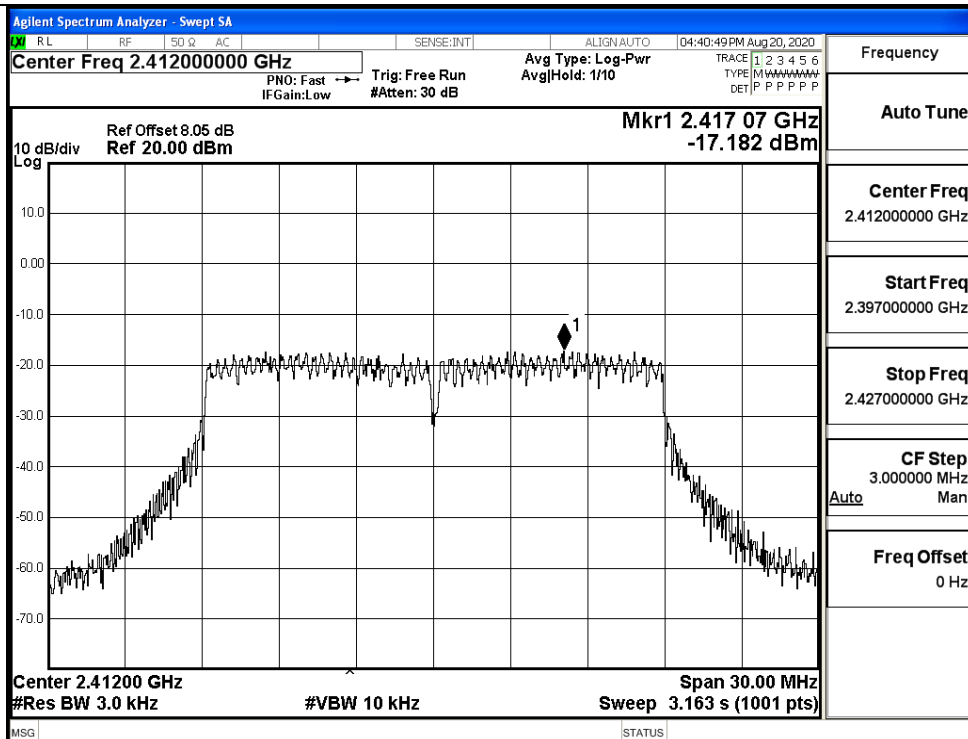
11G/MCH



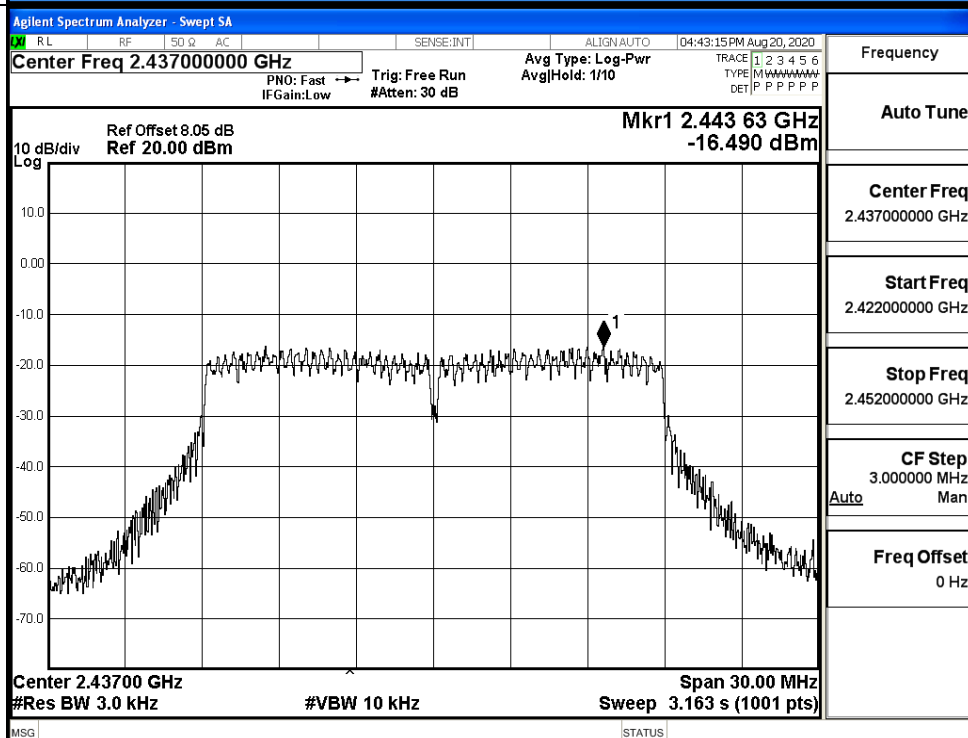
11G/HCH



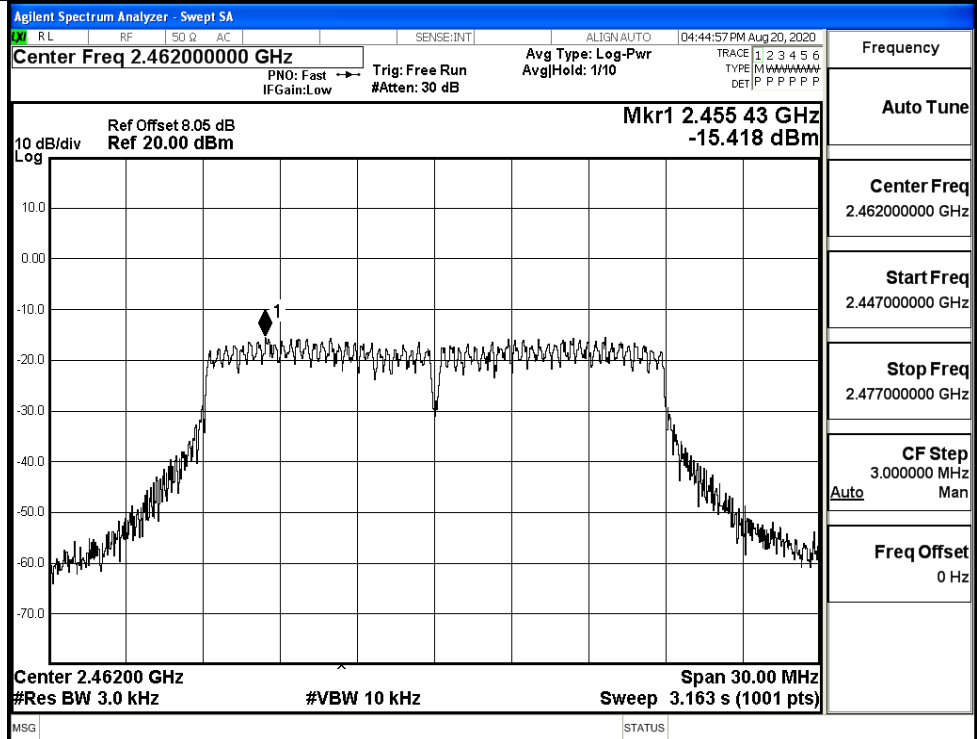
11N20SISO/LCH



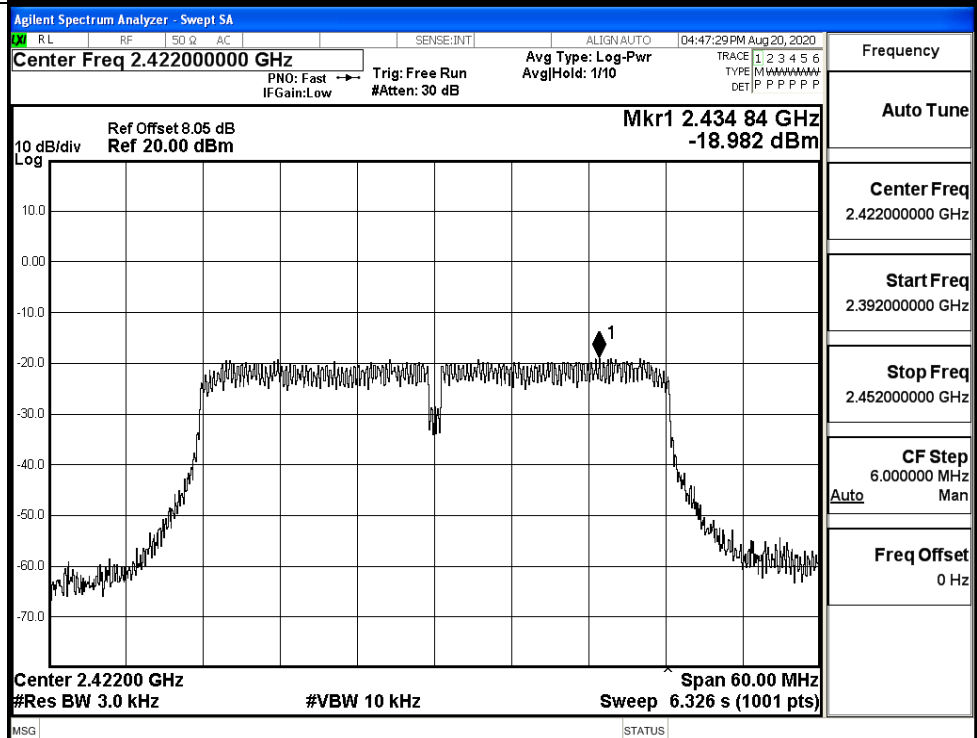
11N20SISO/MCH



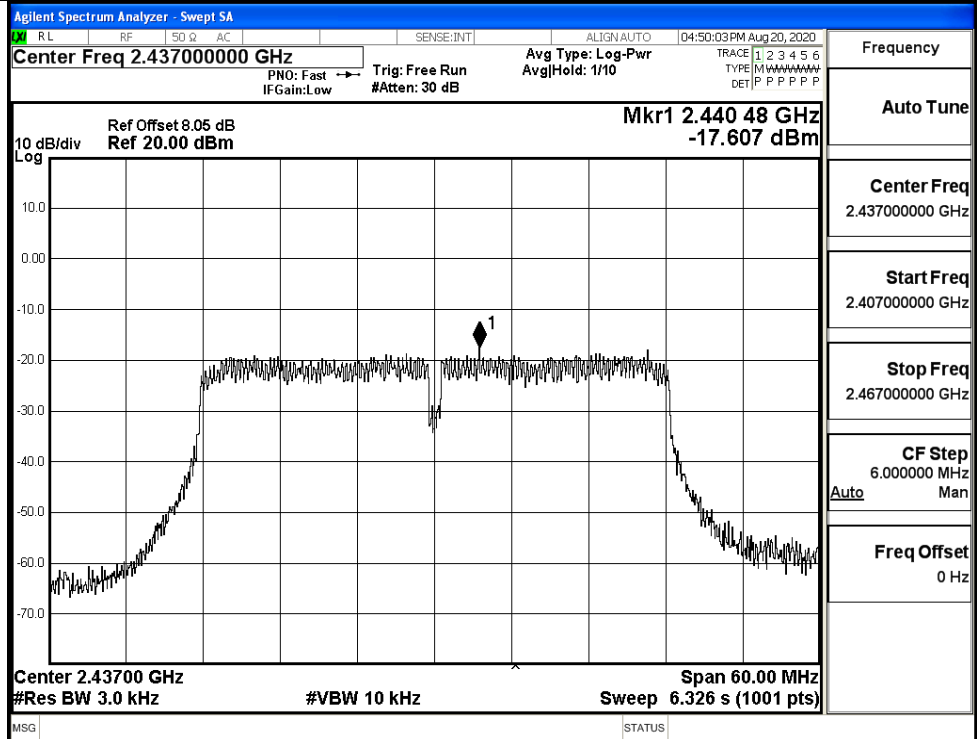
11N20SISO/HCH



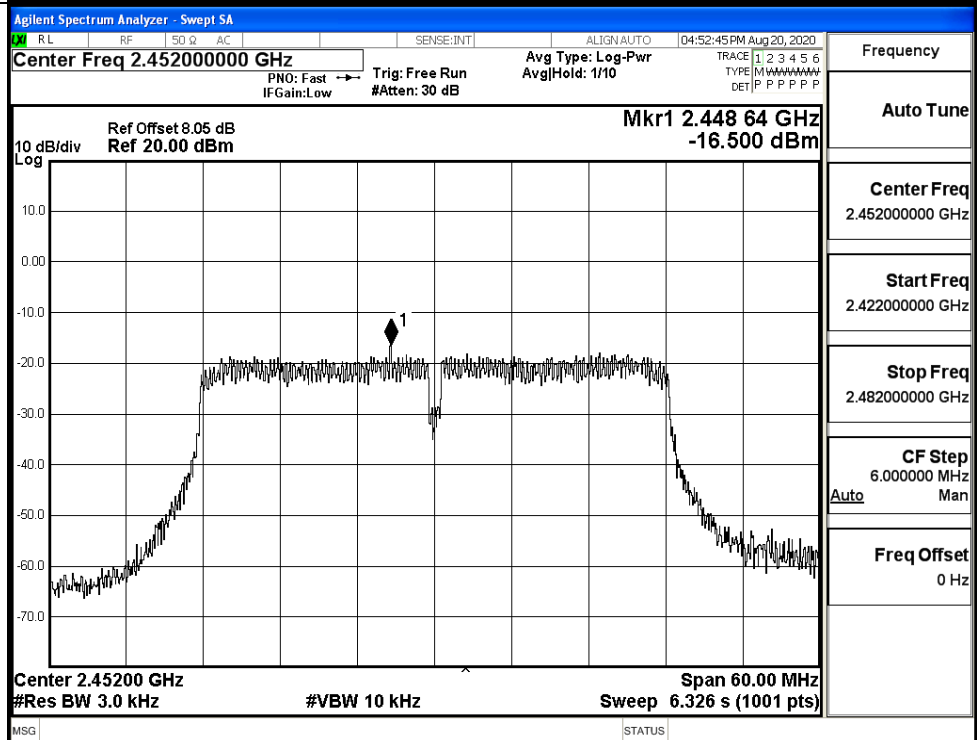
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

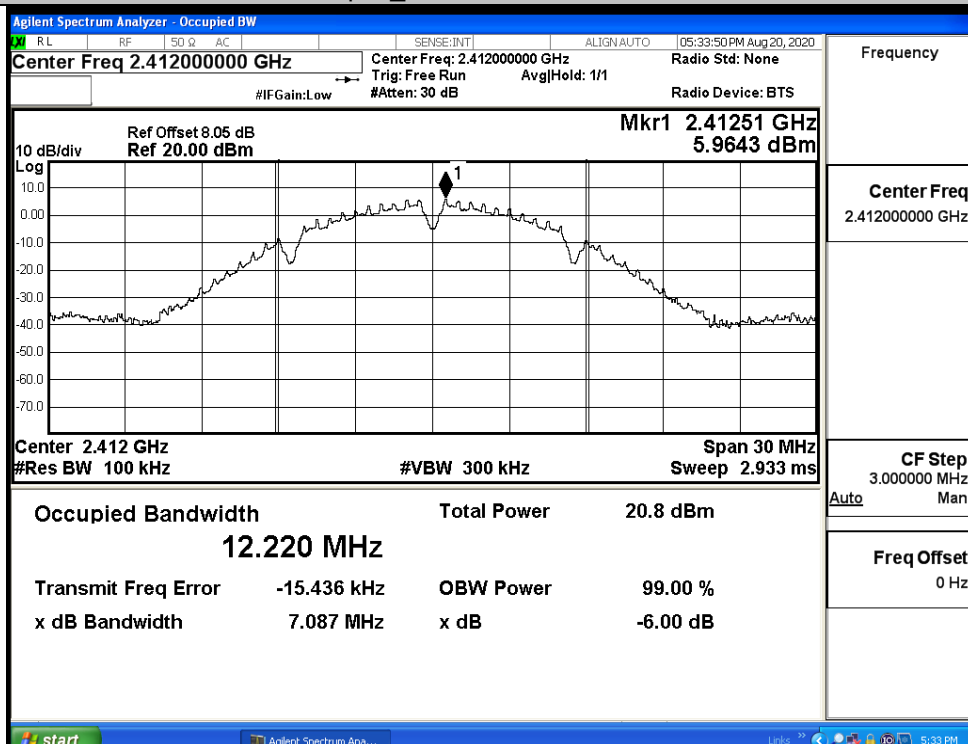


A.4 6dB Bandwidth

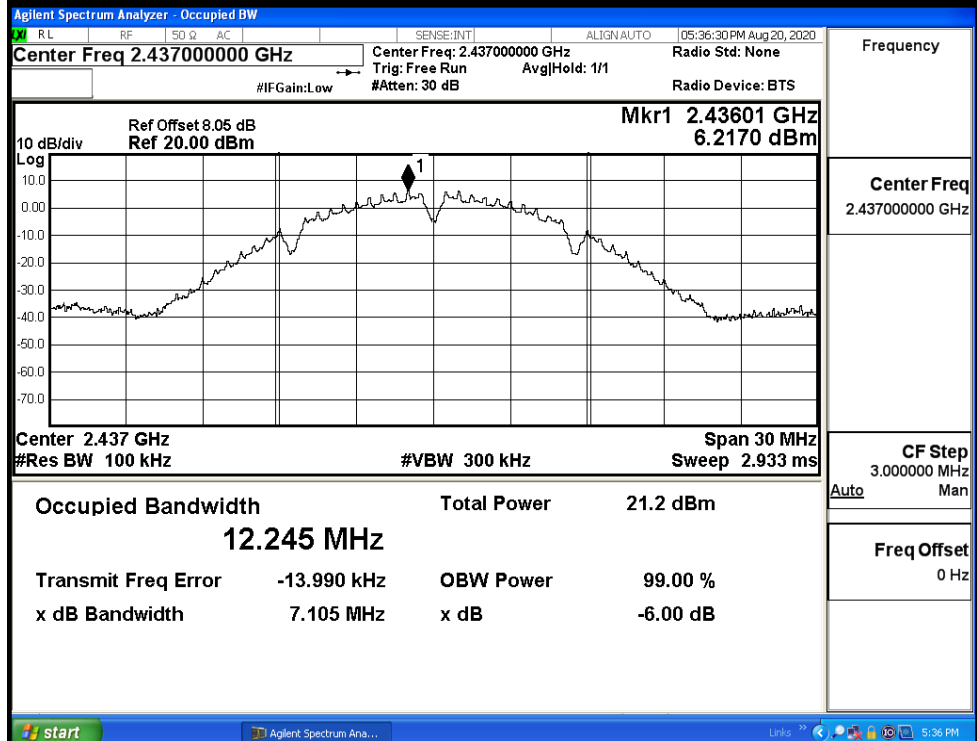
Mode	Channel	6dB Bandwidth [MHz]		Limit [MHz]	Verdict
		Ant 0	Ant 1		
11B	LCH	7.087	10.14	≥ 0.5	PASS
	MCH	7.105	10.14	≥ 0.5	PASS
	HCH	7.090	10.14	≥ 0.5	PASS
11G	LCH	16.36	16.56	≥ 0.5	PASS
	MCH	16.34	16.56	≥ 0.5	PASS
	HCH	16.37	16.56	≥ 0.5	PASS
11N20SISO	LCH	17.56	17.76	≥ 0.5	PASS
	MCH	17.55	17.69	≥ 0.5	PASS
	HCH	17.55	17.71	≥ 0.5	PASS
11N40SISO	LCH	36.36	36.47	≥ 0.5	PASS
	MCH	36.37	36.46	≥ 0.5	PASS
	HCH	36.35	36.48	≥ 0.5	PASS

Test Graphs_ Ant 0

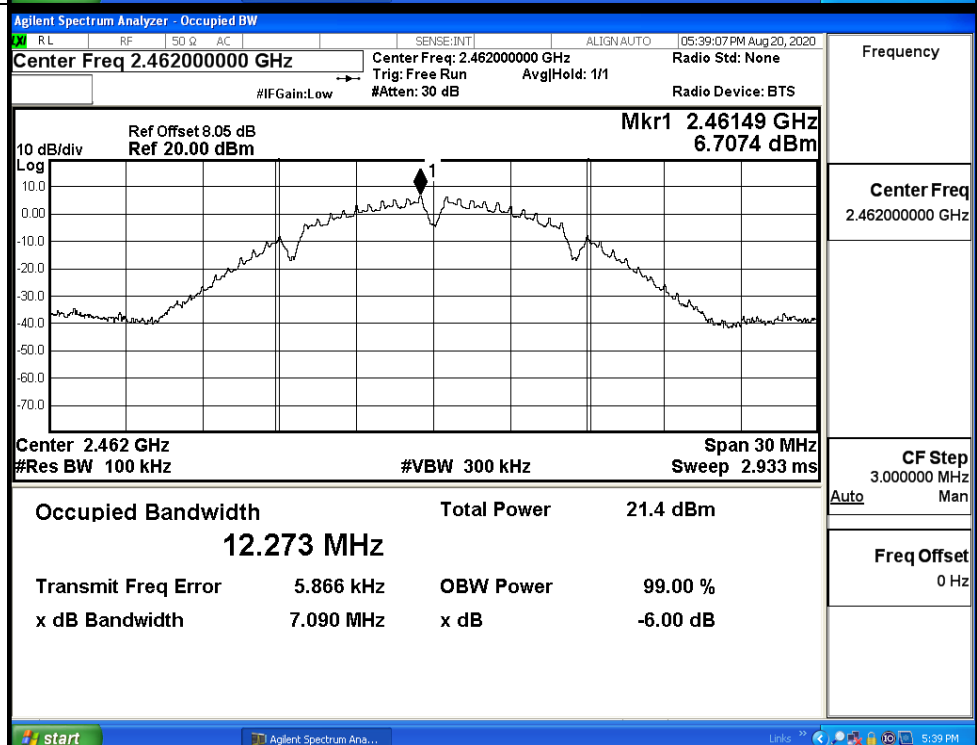
11B/LCH



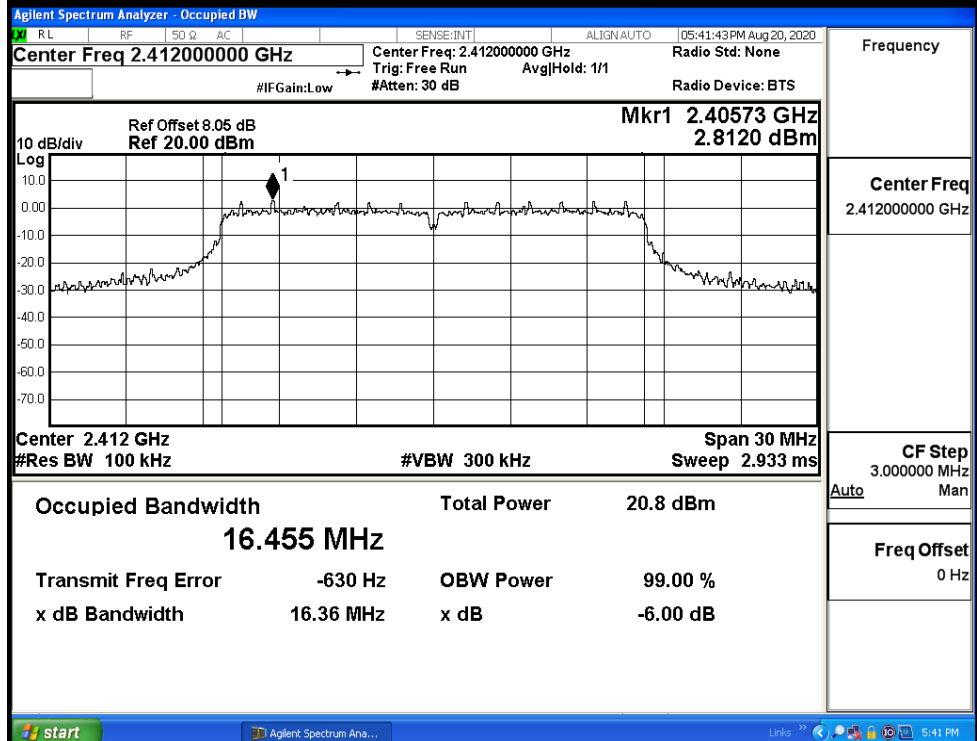
11B/MCH



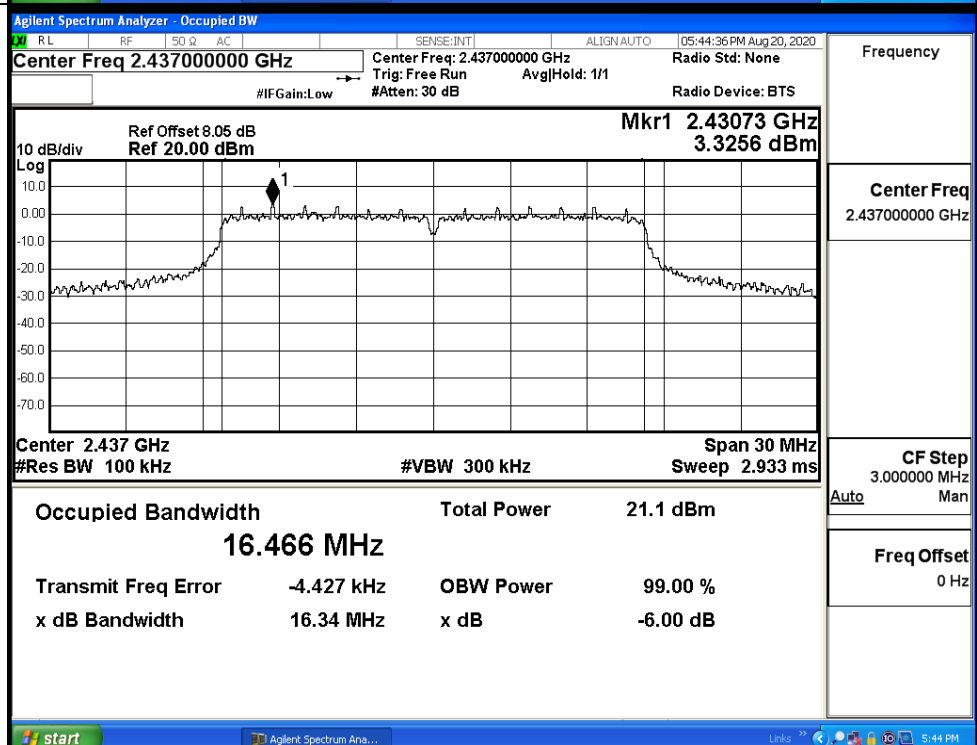
11B/HCH



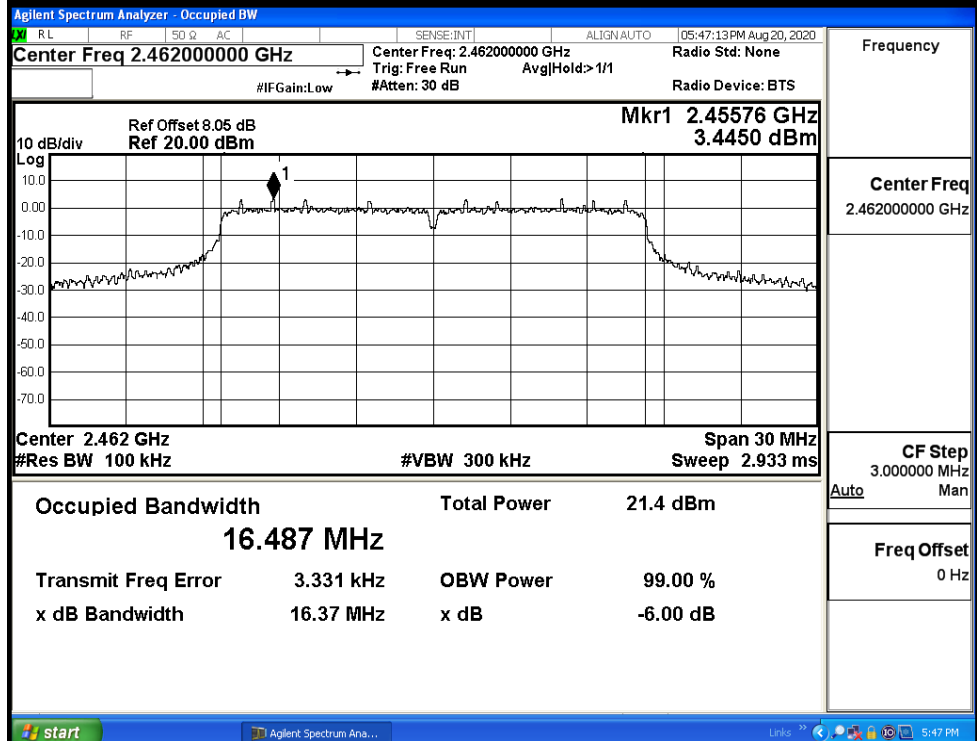
11G/LCH



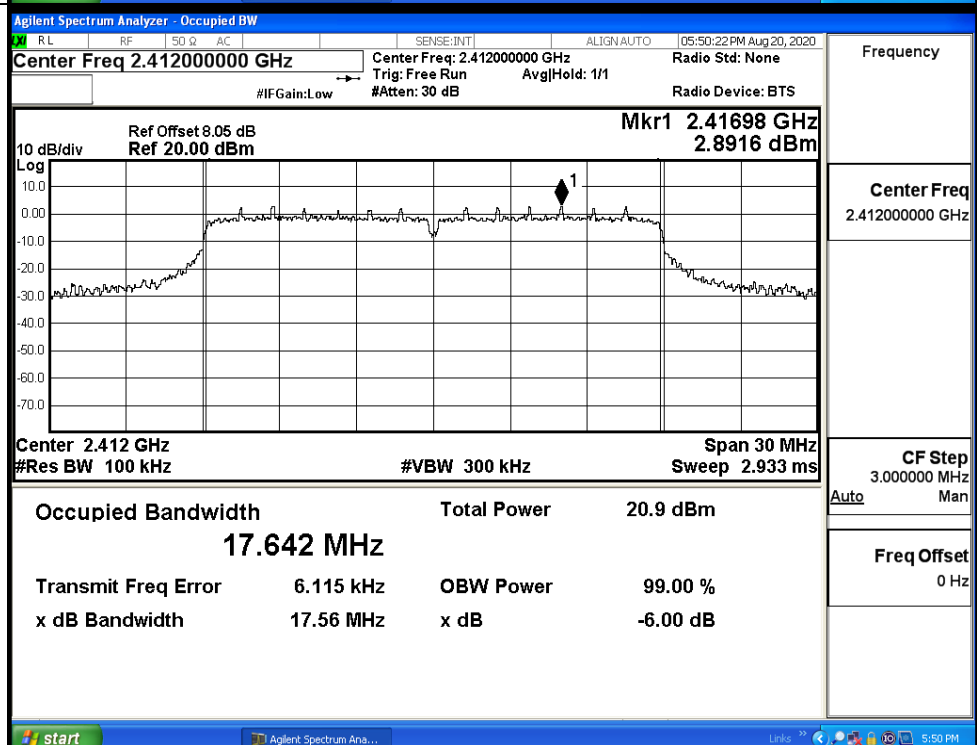
11G/MCH



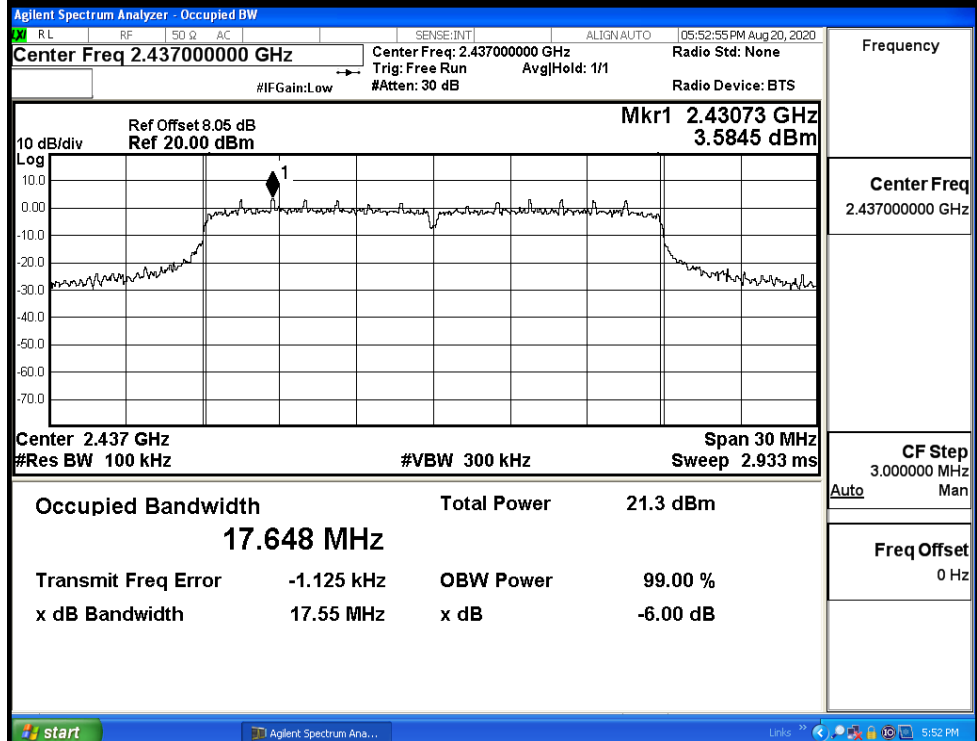
11G/HCH



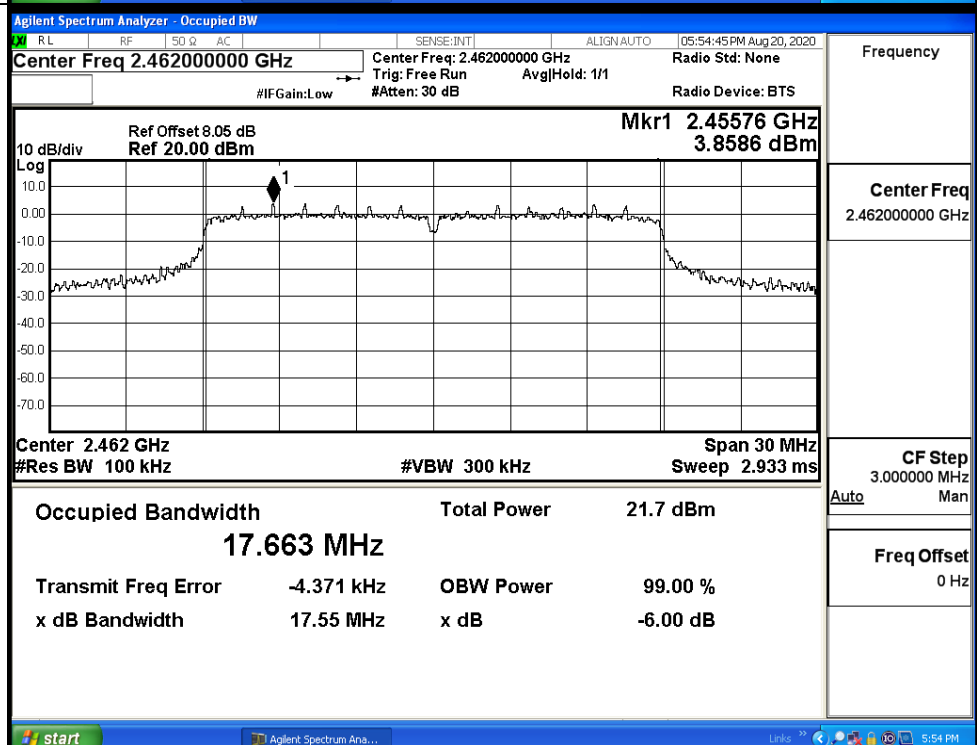
11N20SISO/LCH



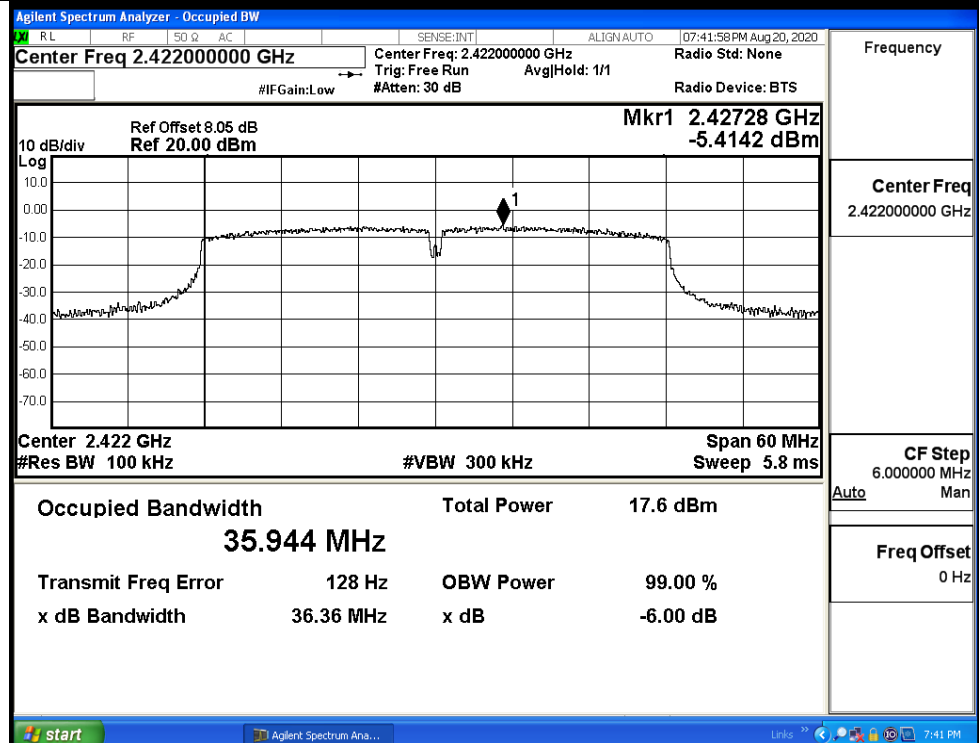
11N20SISO/MCH



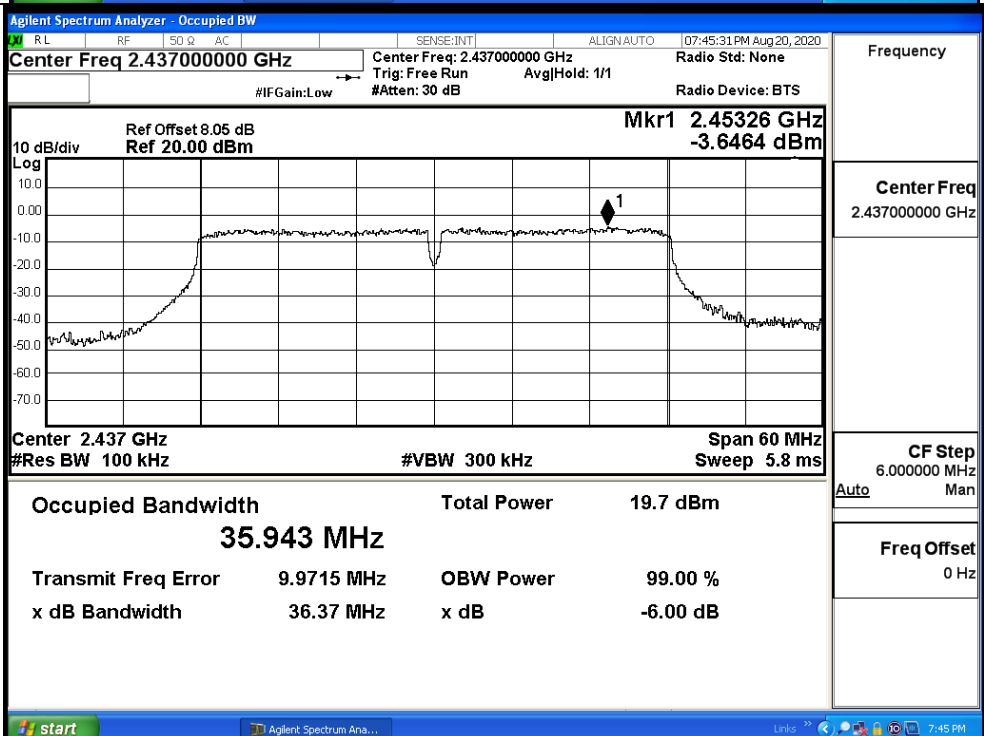
11N20SISO/HCH



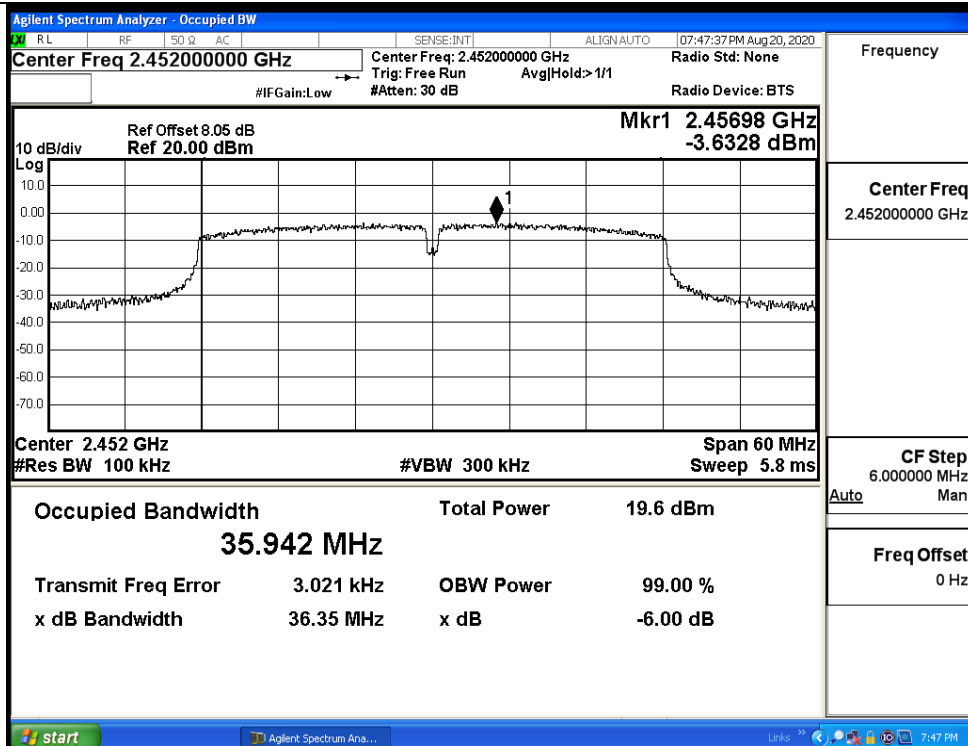
11N40SISO/LCH



11N40SISO/MCH

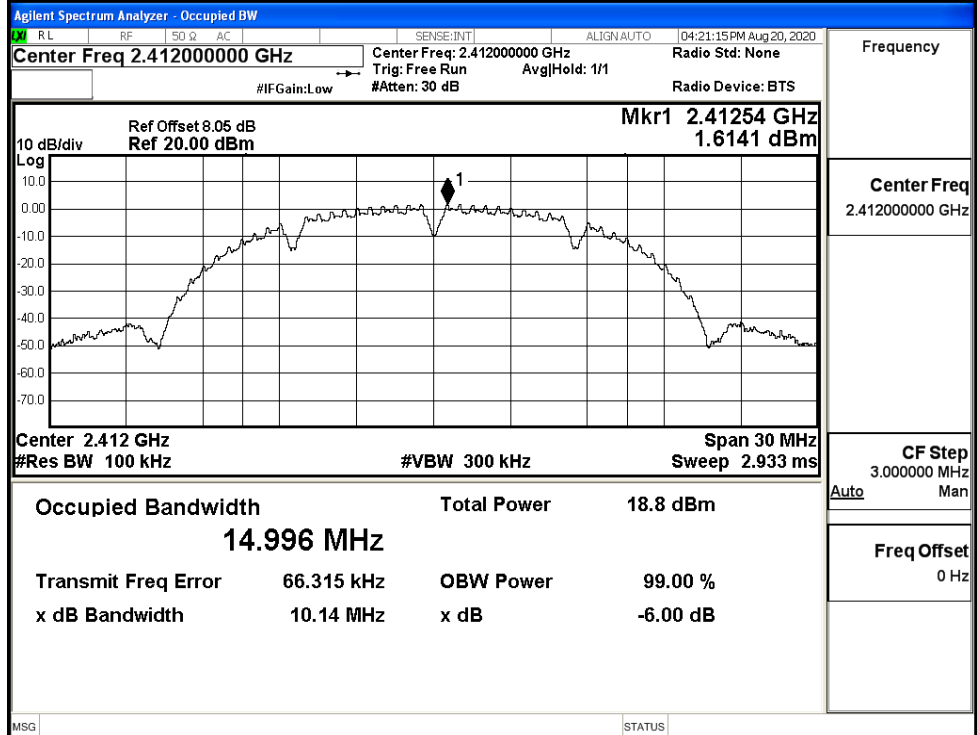


11N40SISO/HCH

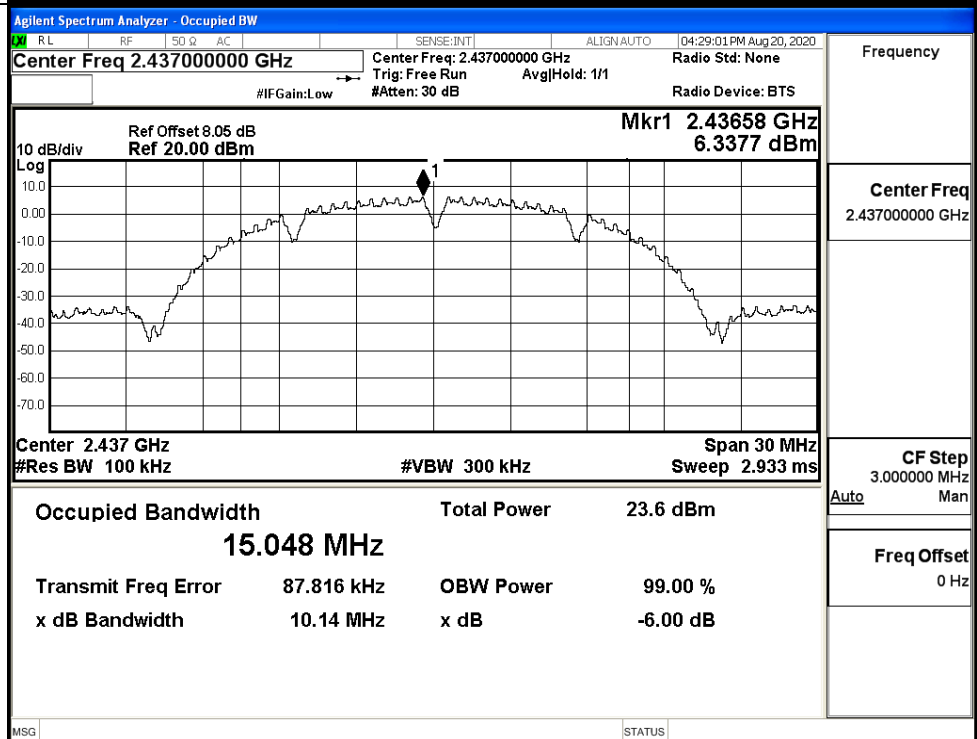


Test Graphs_Ant 1

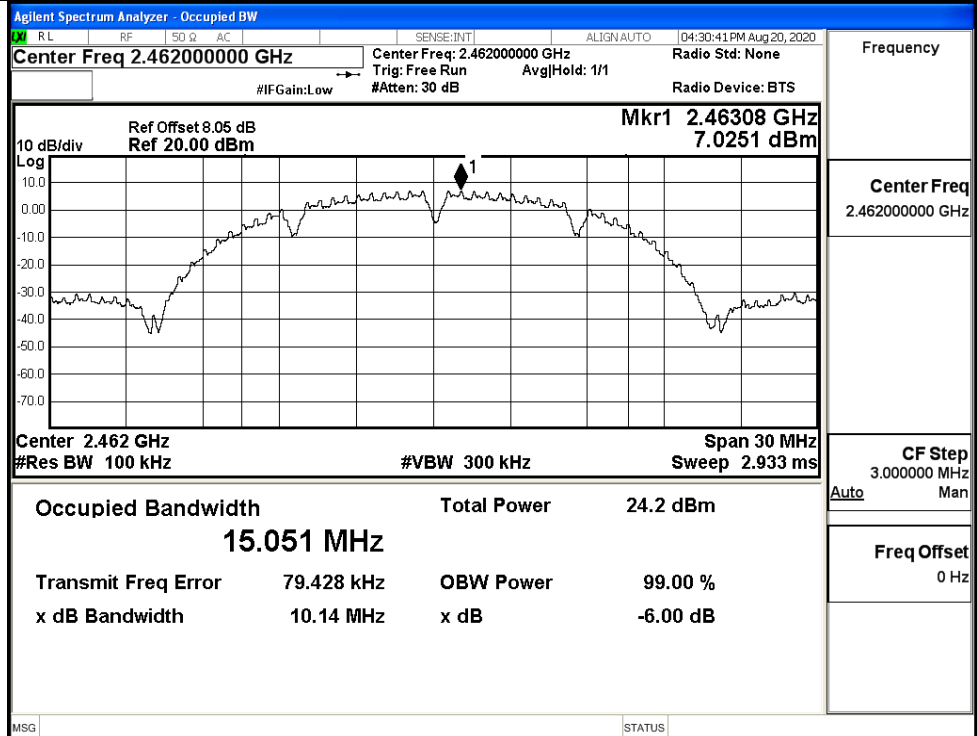
11B/LCH



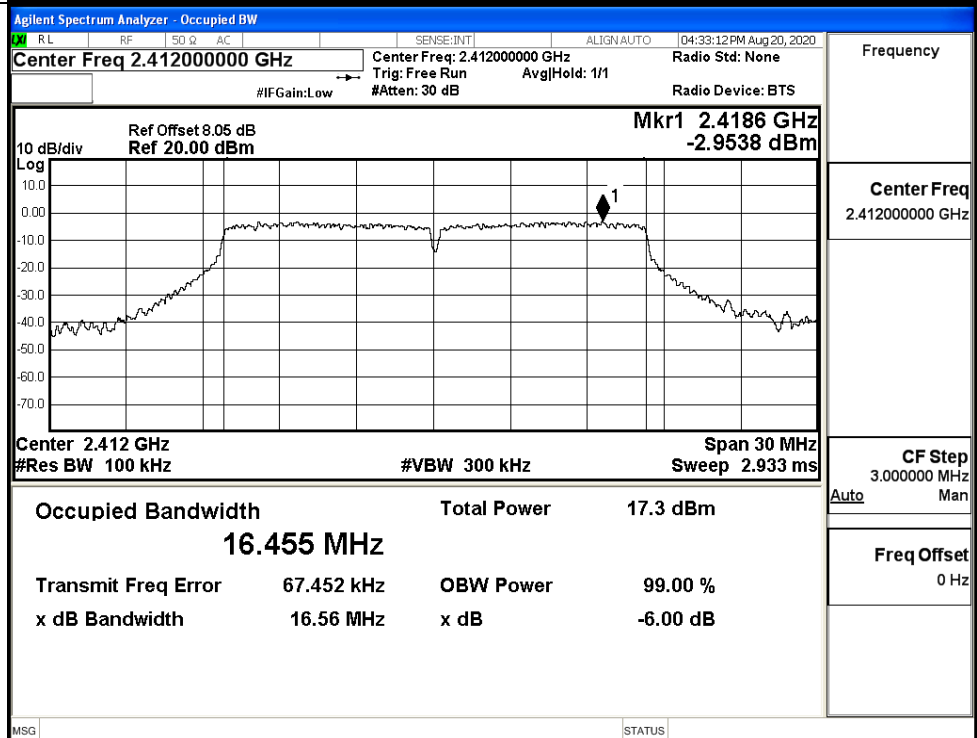
11B/MCH



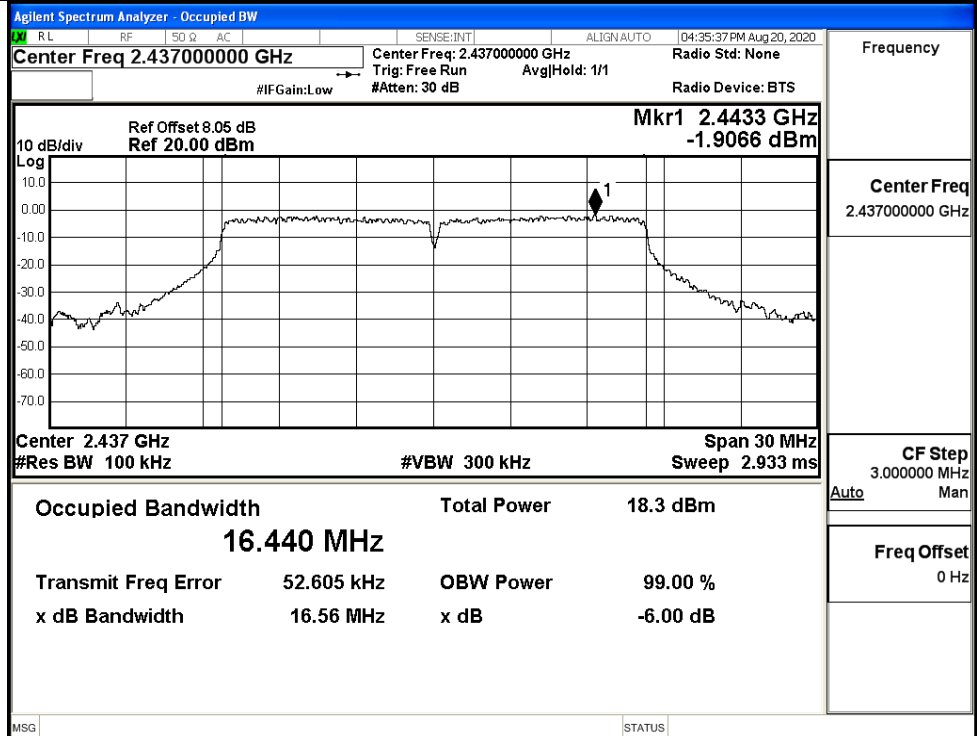
11B/HCH



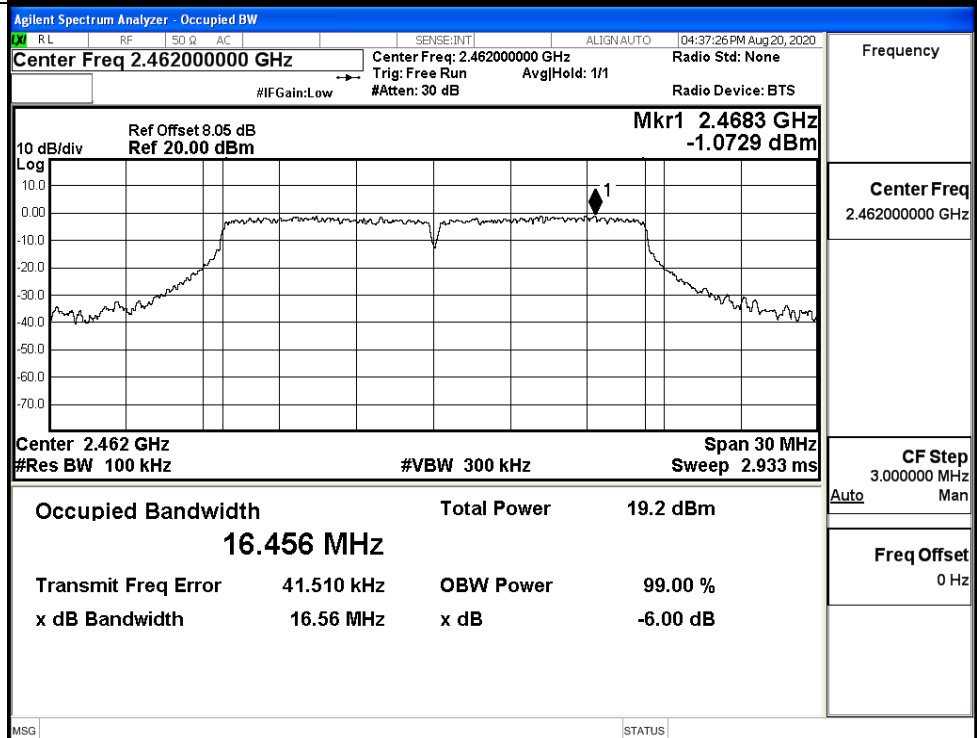
11G/LCH



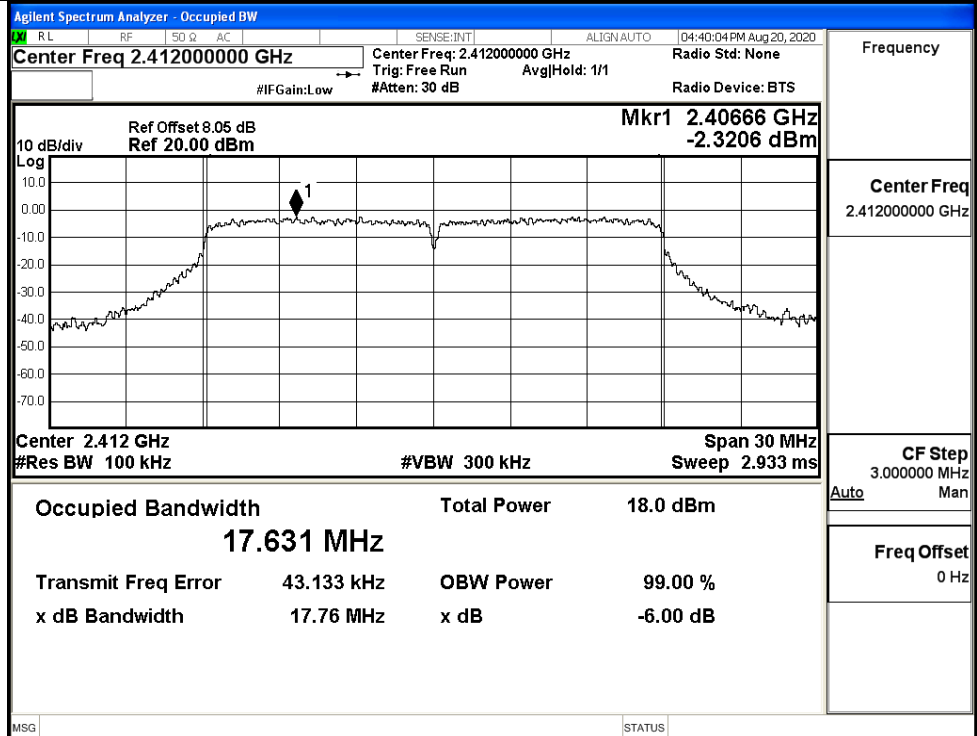
11G/MCH



11G/HCH



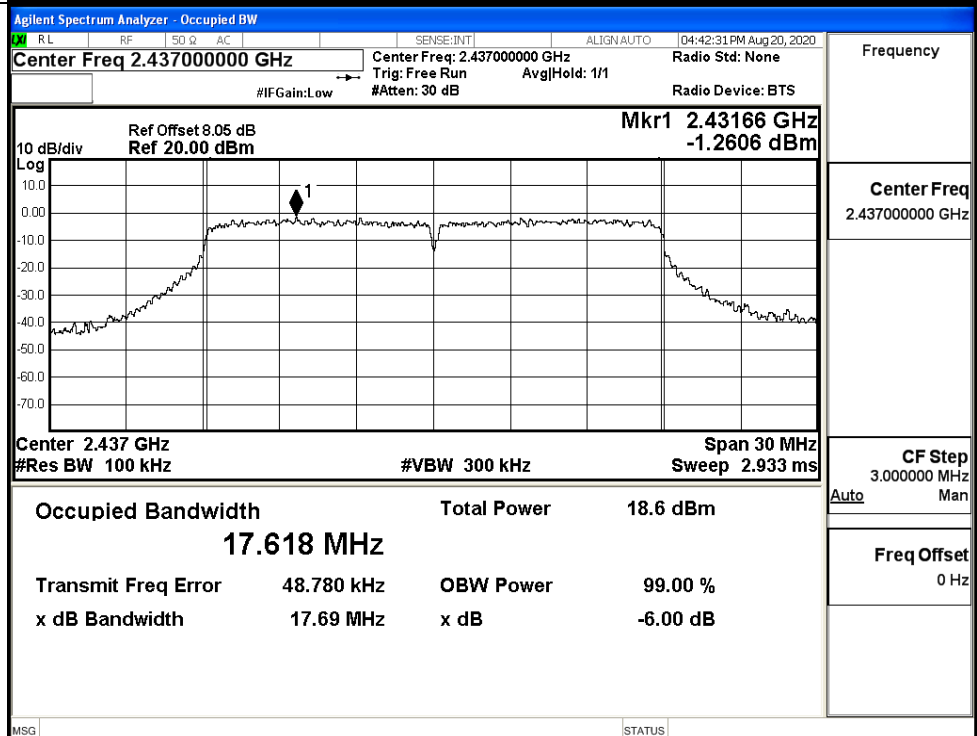
11N20SISO/LCH



Frequency

Center Freq
2.41200000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

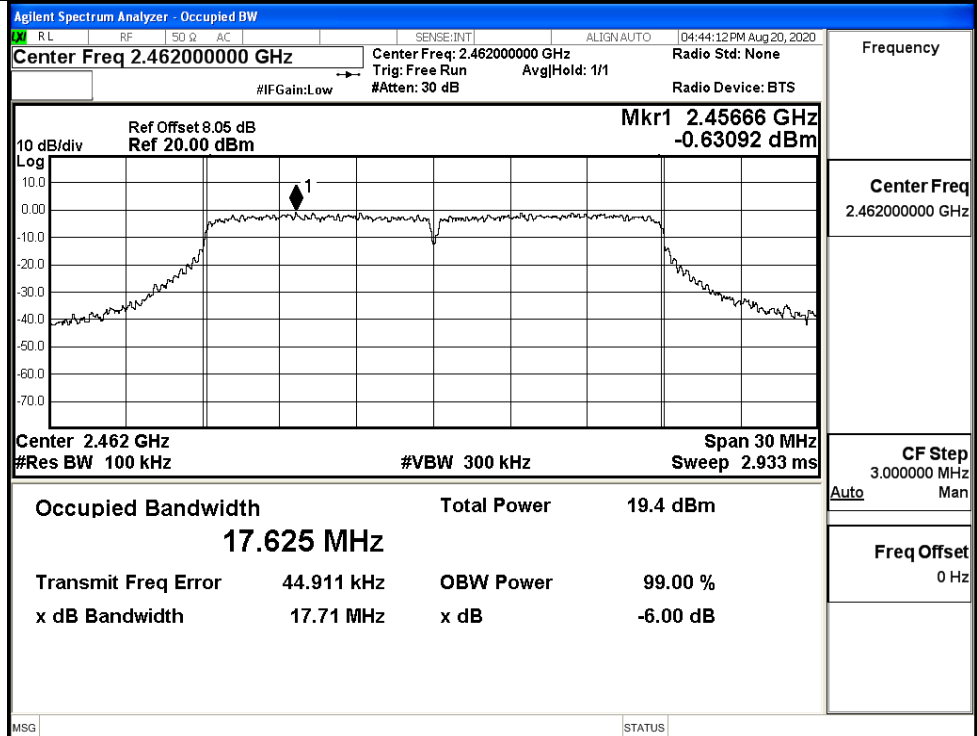
11N20SISO/MCH



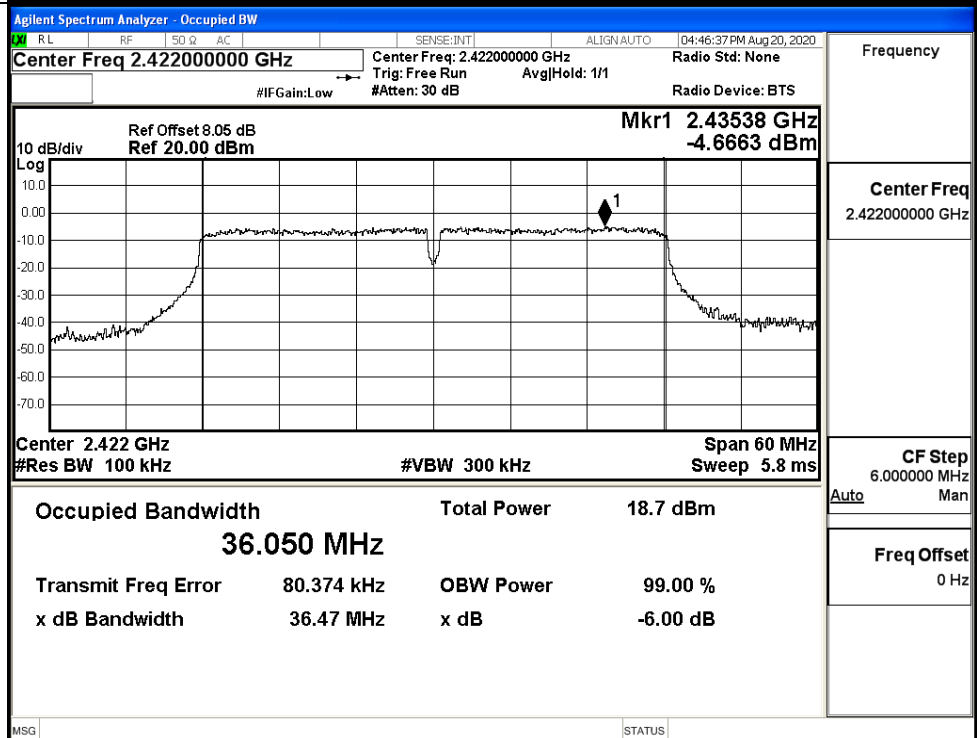
Frequency

Center Freq
2.43700000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

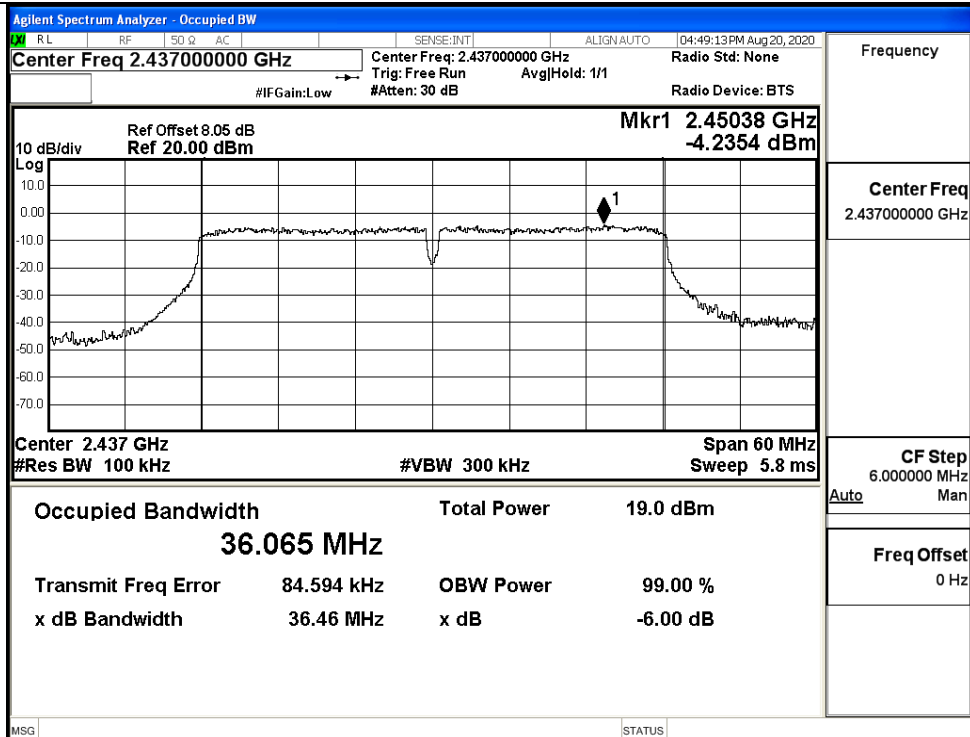
11N20SISO/HCH



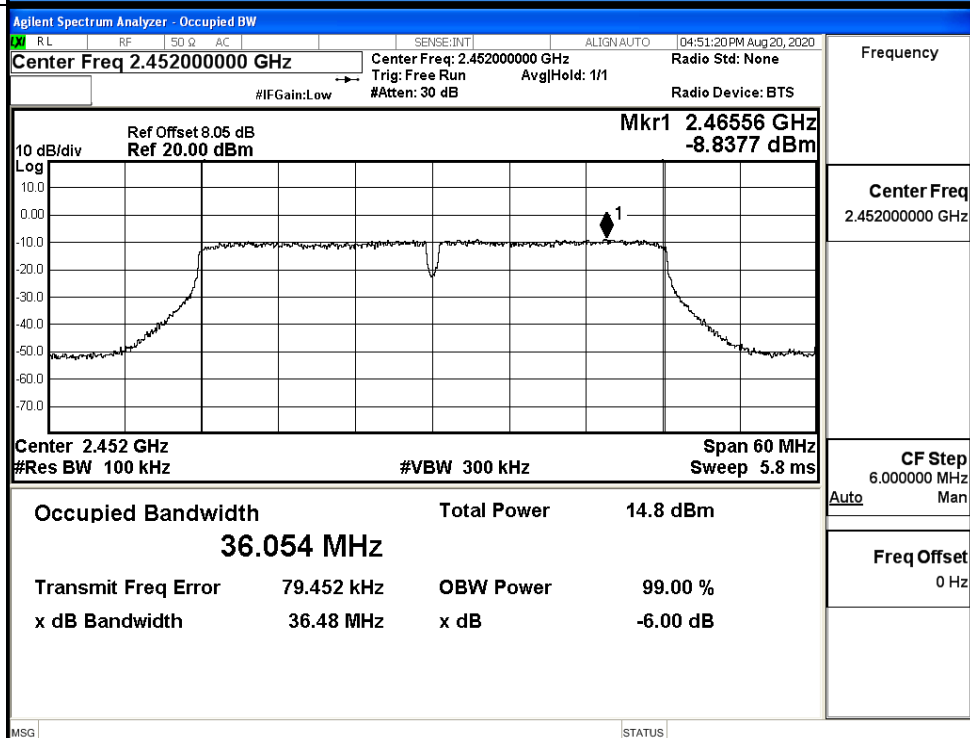
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



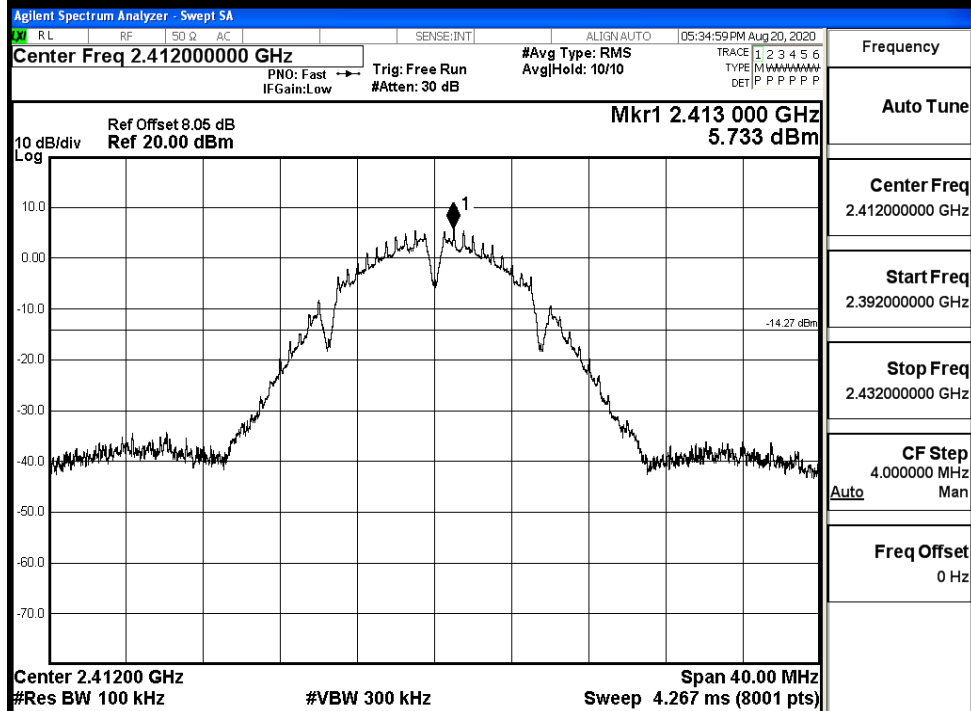
A.5 RF Conducted Spurious Emissions

Ant 0

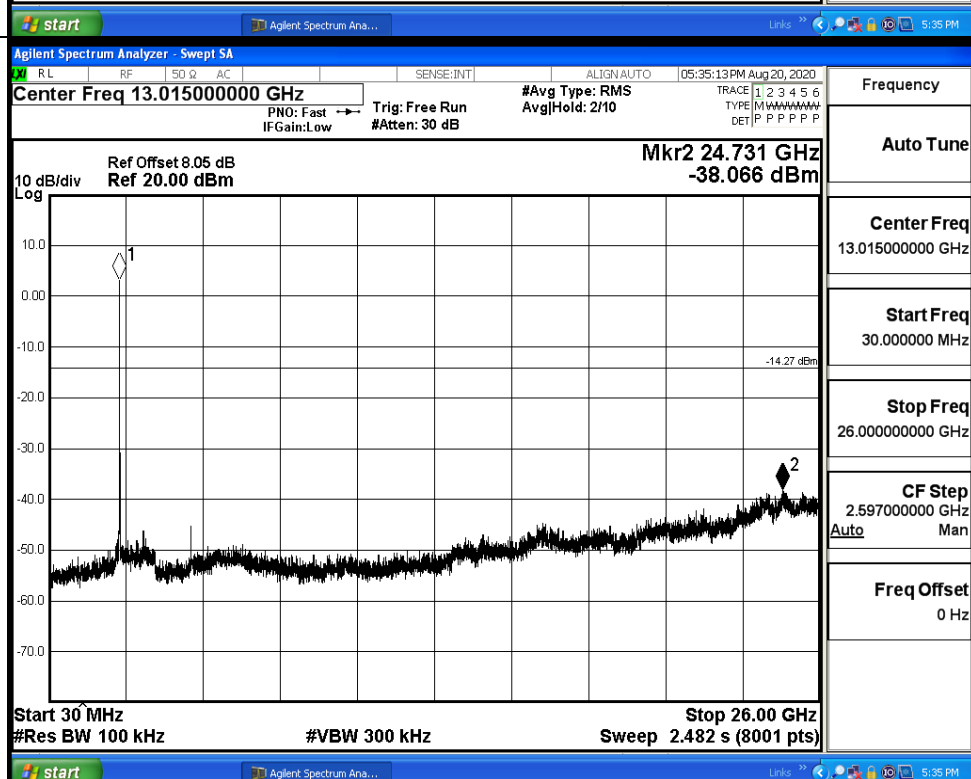
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.733	-38.066	-14.267	PASS
	MCH	5.639	-37.660	-14.361	PASS
	HCH	5.899	-38.036	-14.101	PASS
11G	LCH	2.544	-38.258	-17.456	PASS
	MCH	3.102	-38.668	-16.898	PASS
	HCH	3.422	-37.915	-16.578	PASS
11N20 SISO	LCH	2.878	-38.016	-17.122	PASS
	MCH	3.128	-38.398	-16.872	PASS
	HCH	3.696	-38.645	-16.304	PASS
11N40 SISO	LCH	-5.99	-38.096	-25.990	PASS
	MCH	-5.222	-36.315	-25.222	PASS
	HCH	-3.768	-37.727	-23.768	PASS

11B_LCH_Graphs_Ant 0

Pref/11B/LCH

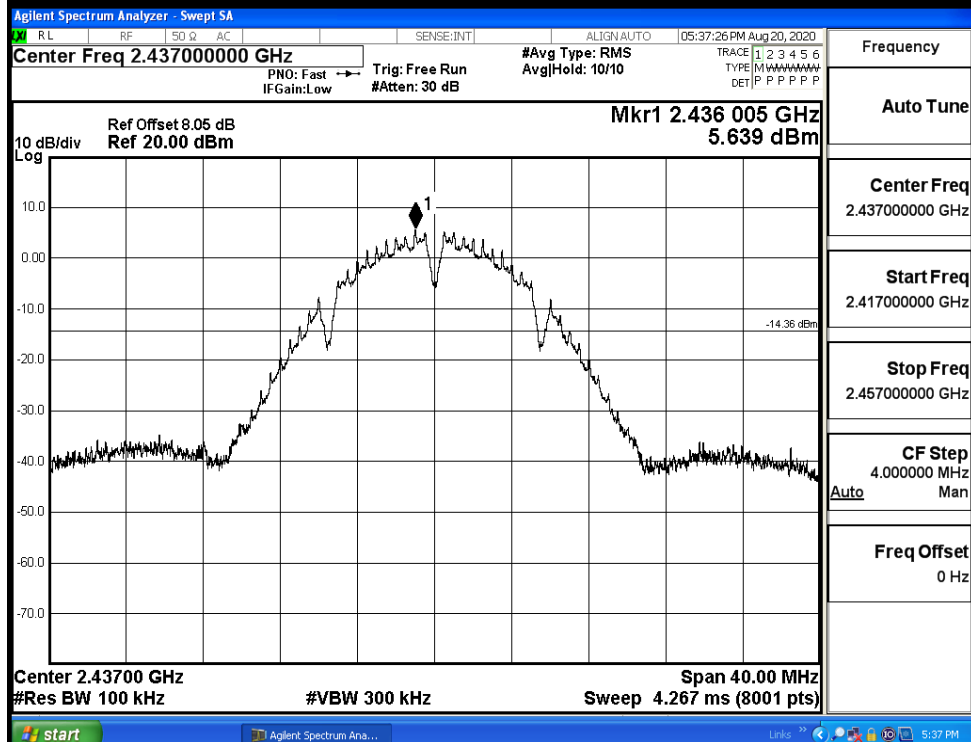


Puw/11B/LCH

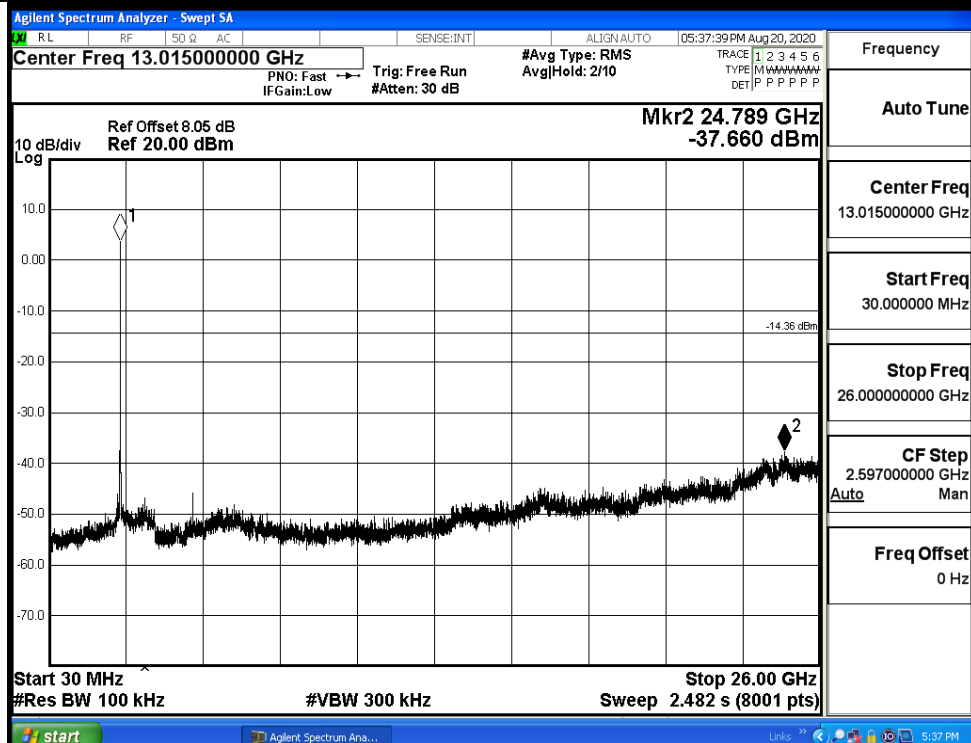


11B MCH Graphs

Pref/11B/MCH

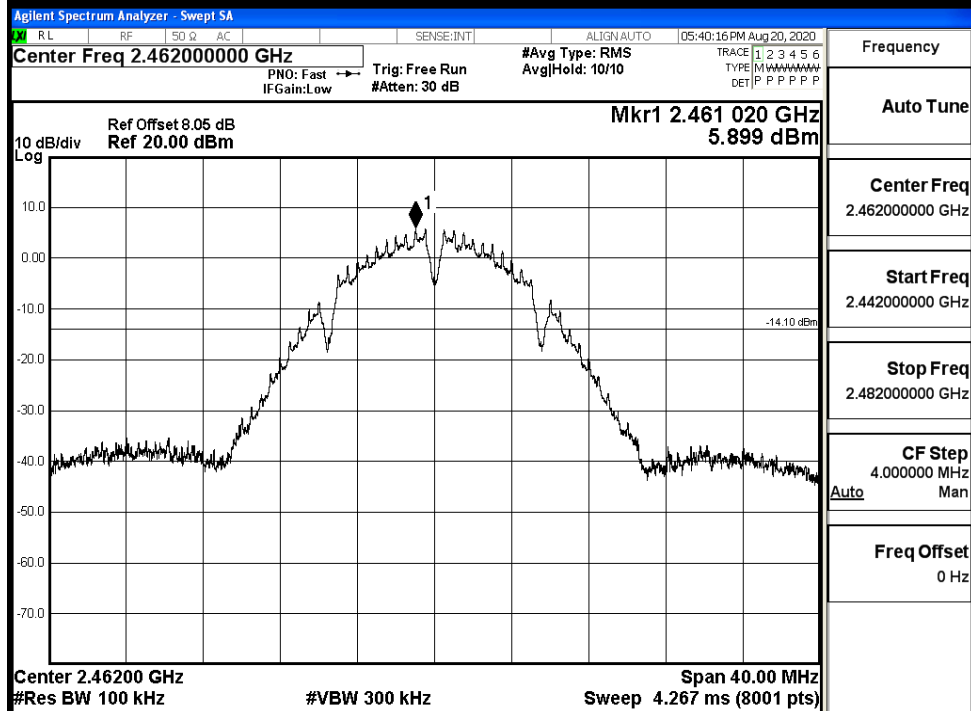


Puw/11B/MCH

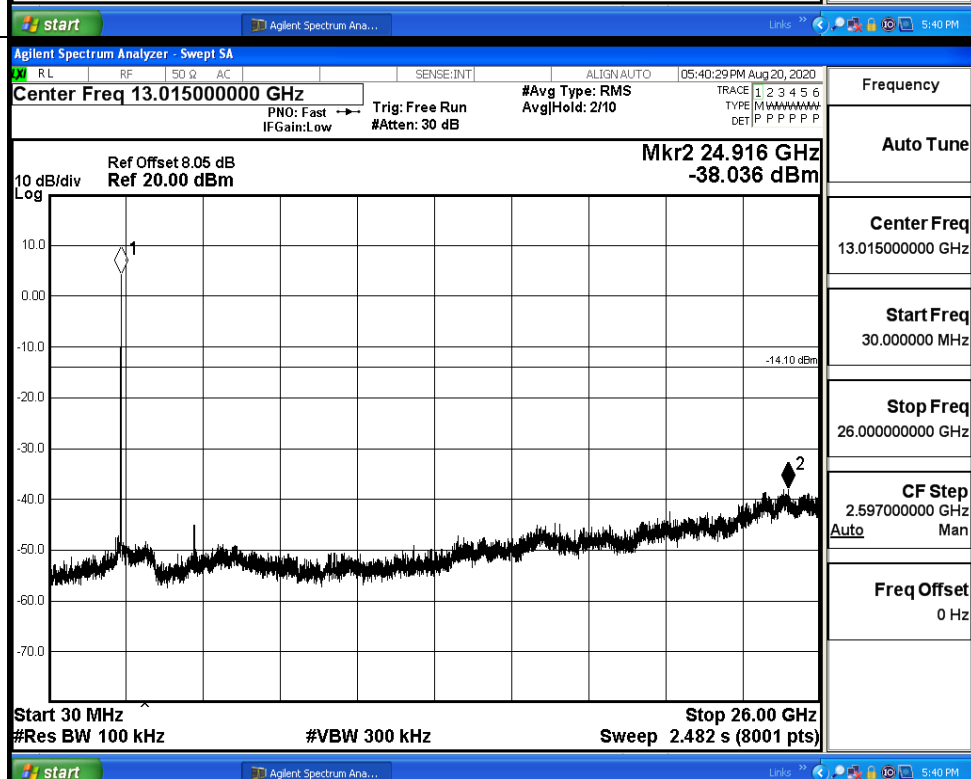


11B HCH Graphs

Pref/11B/HCH

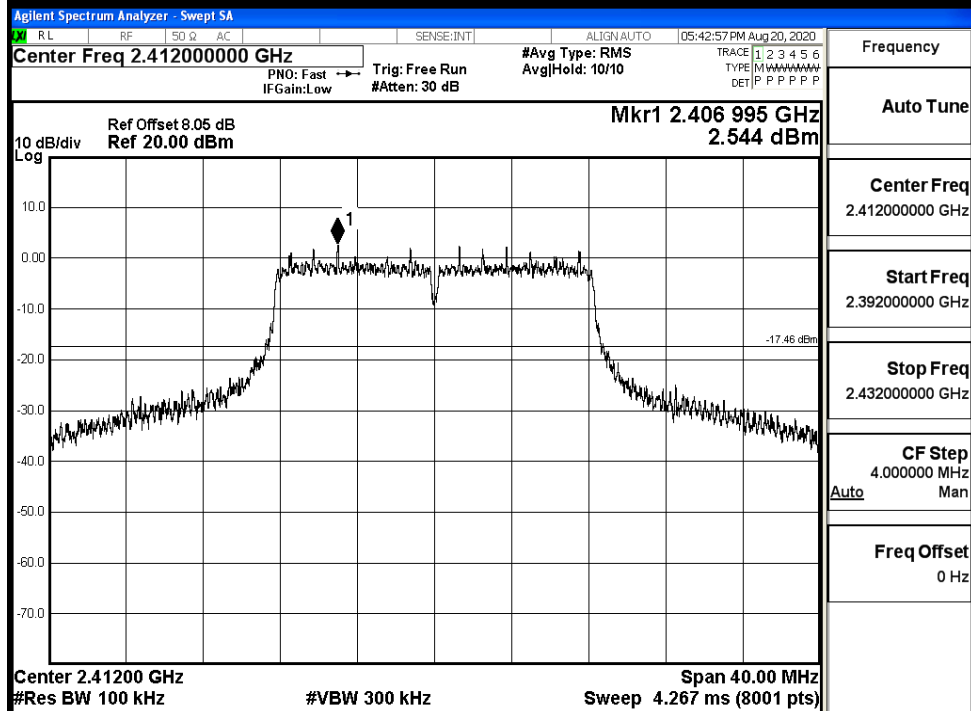


Puw/11B/HCH

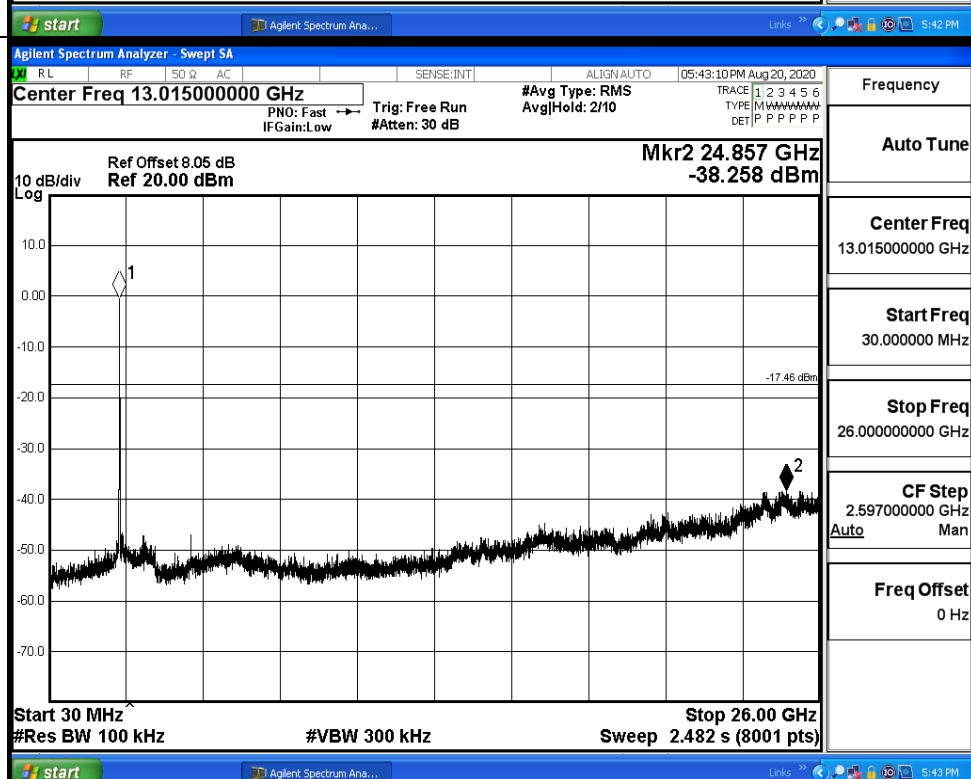


11G LCH Graphs

Pref/11G/LCH

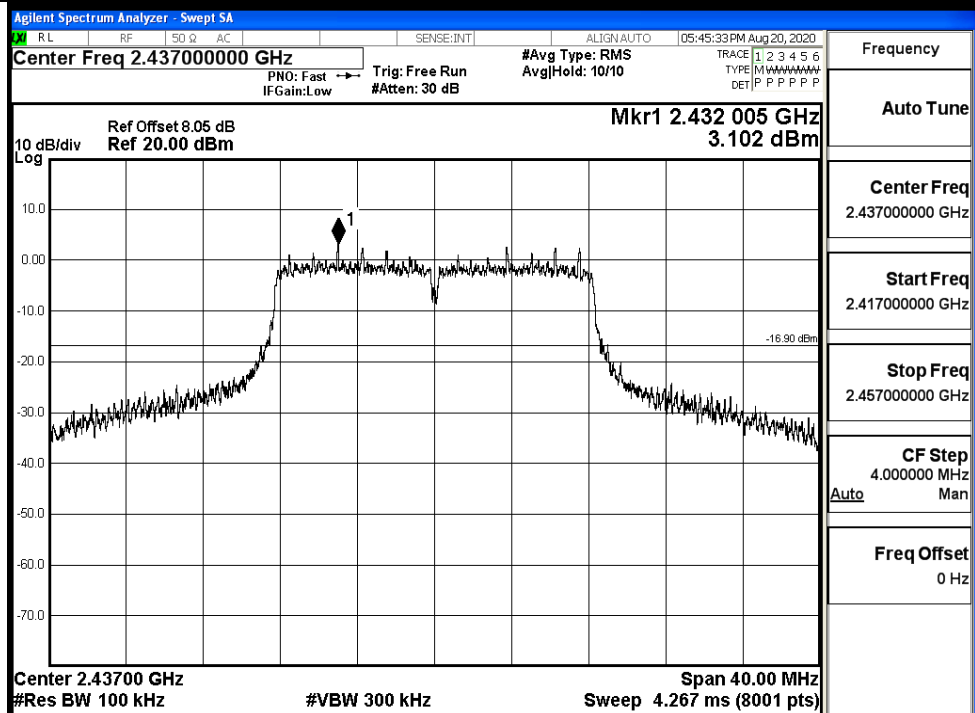


Puw/11G/LCH

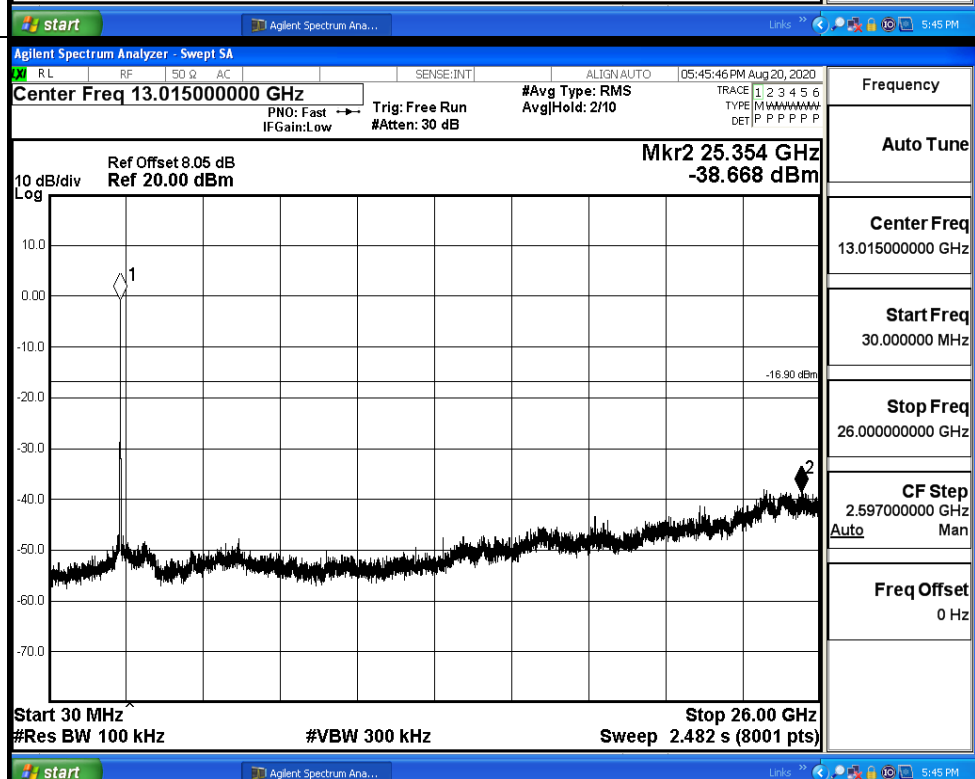


11G_MCH_Graphs

Pref/11G/MCH

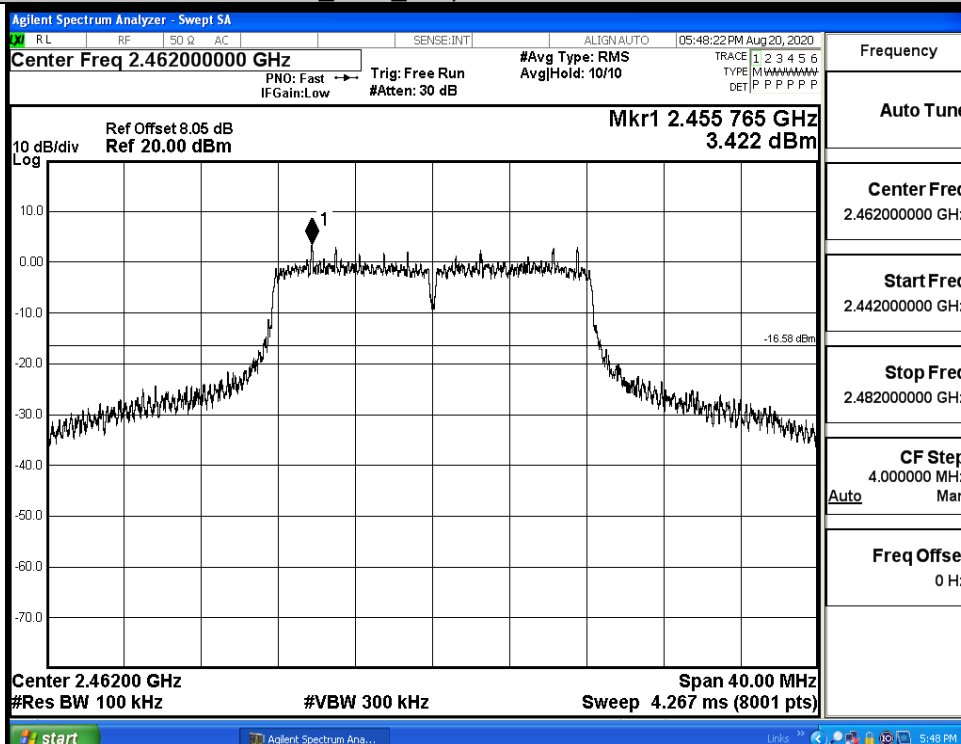


Puw/11G/MCH

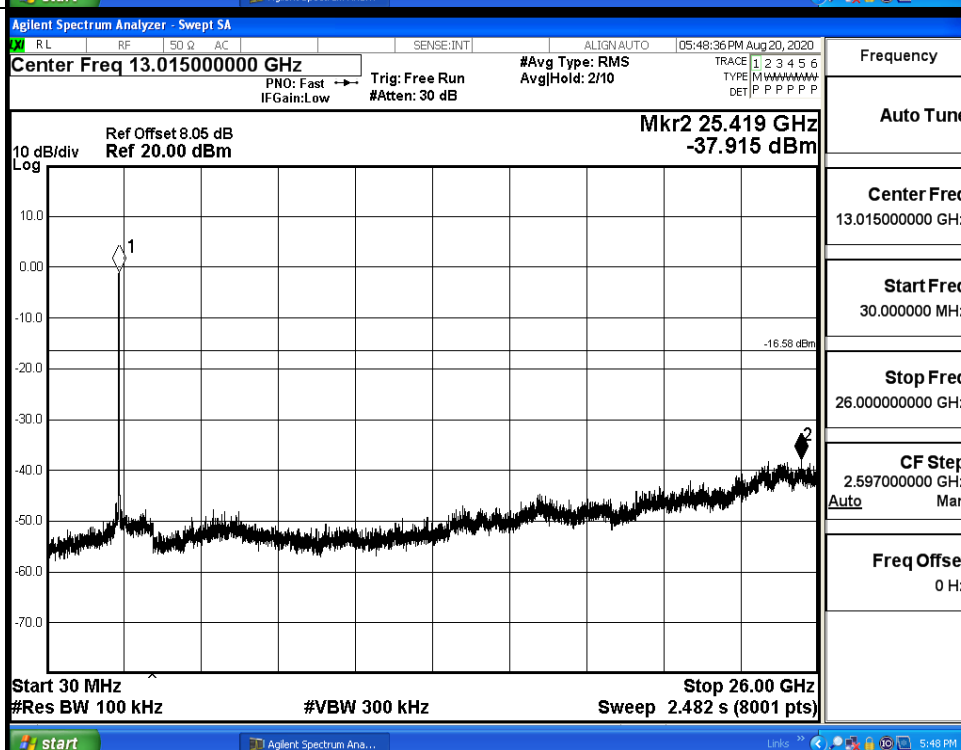


11G HCH Graphs

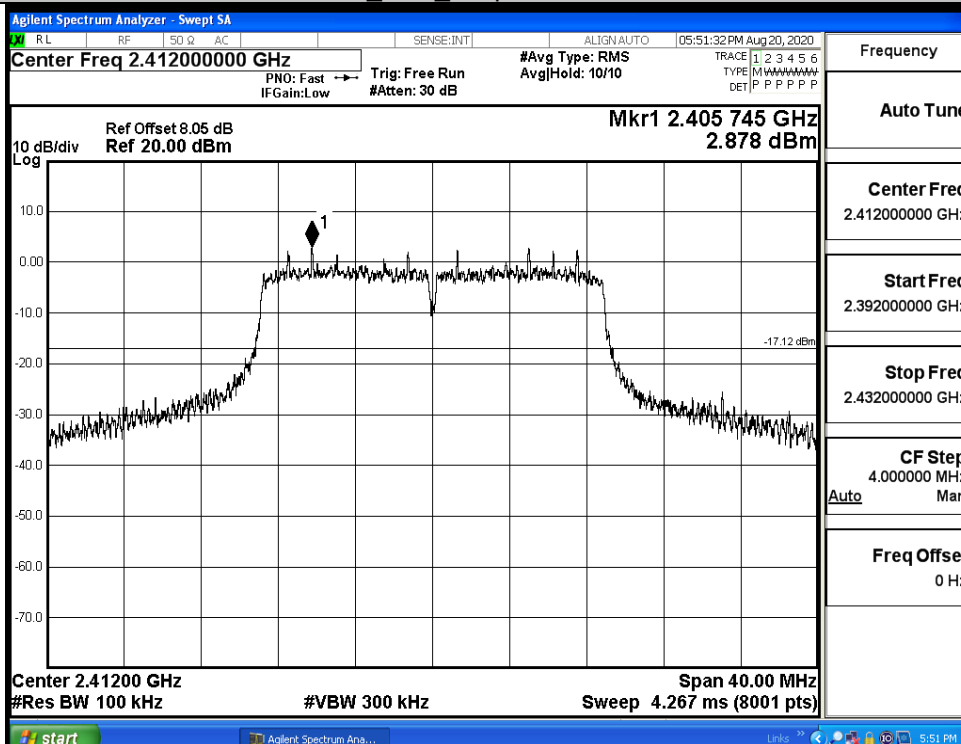
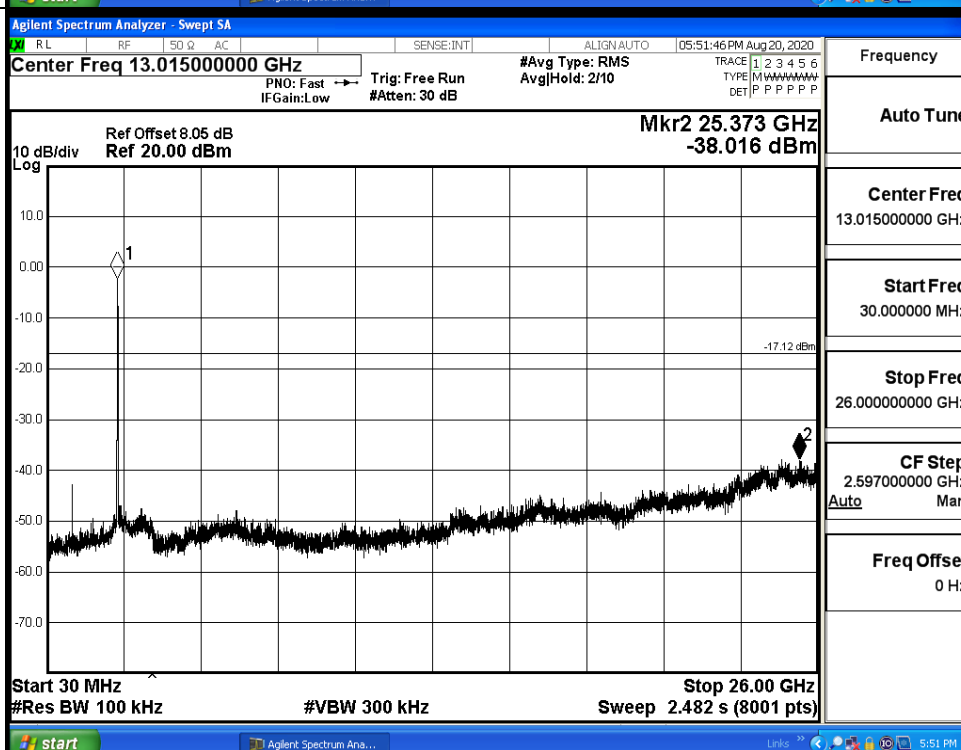
Pref/11G/HCH



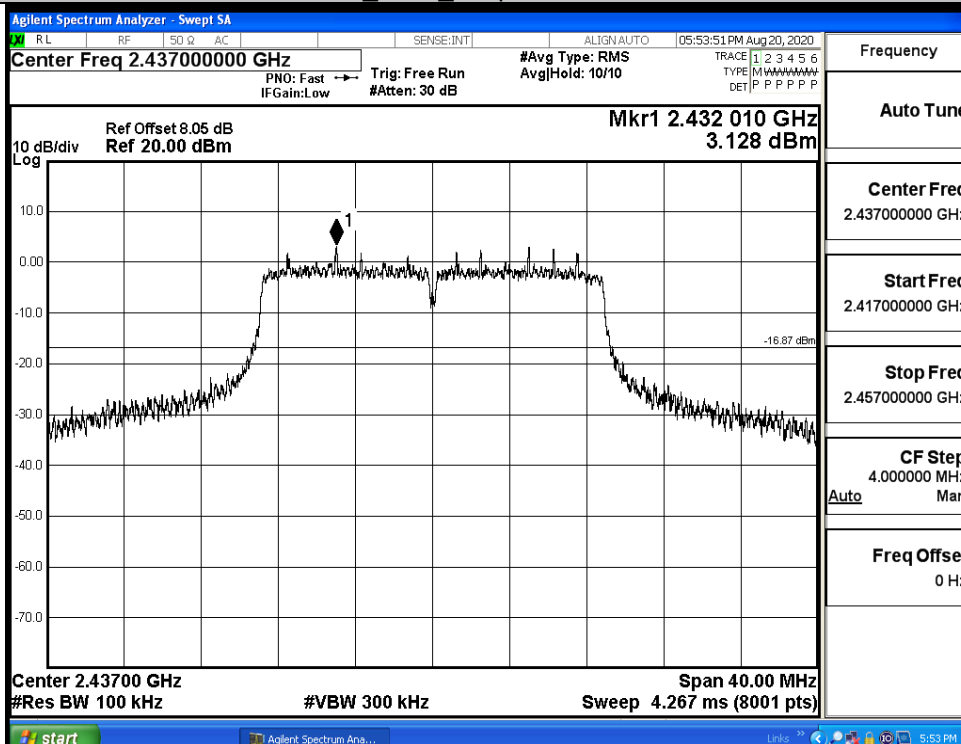
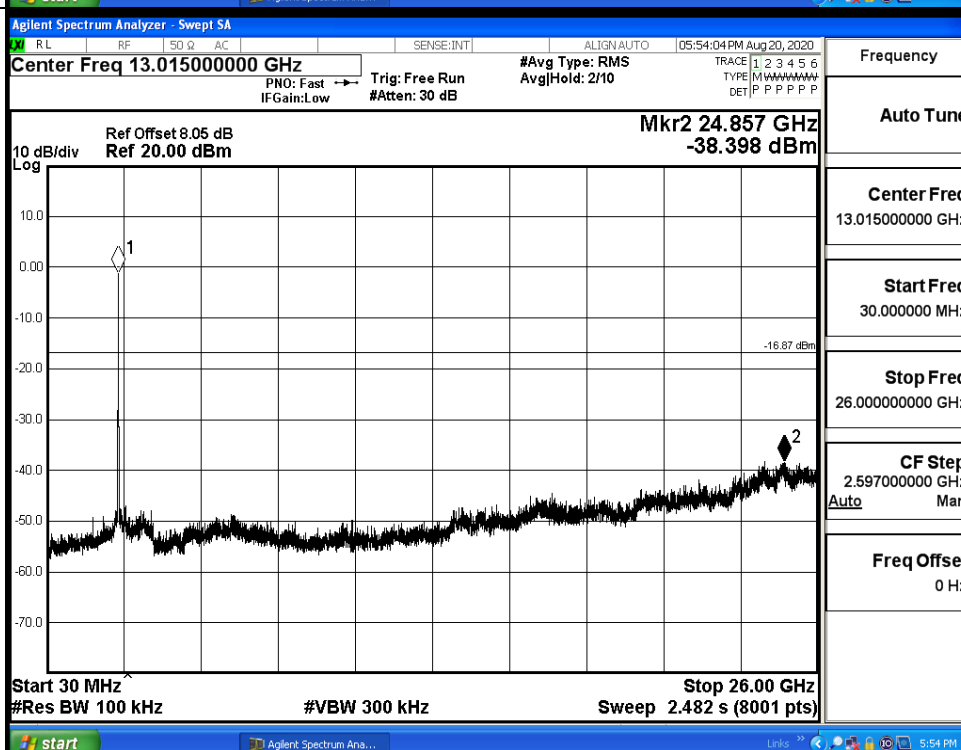
Puw/11G/HCH



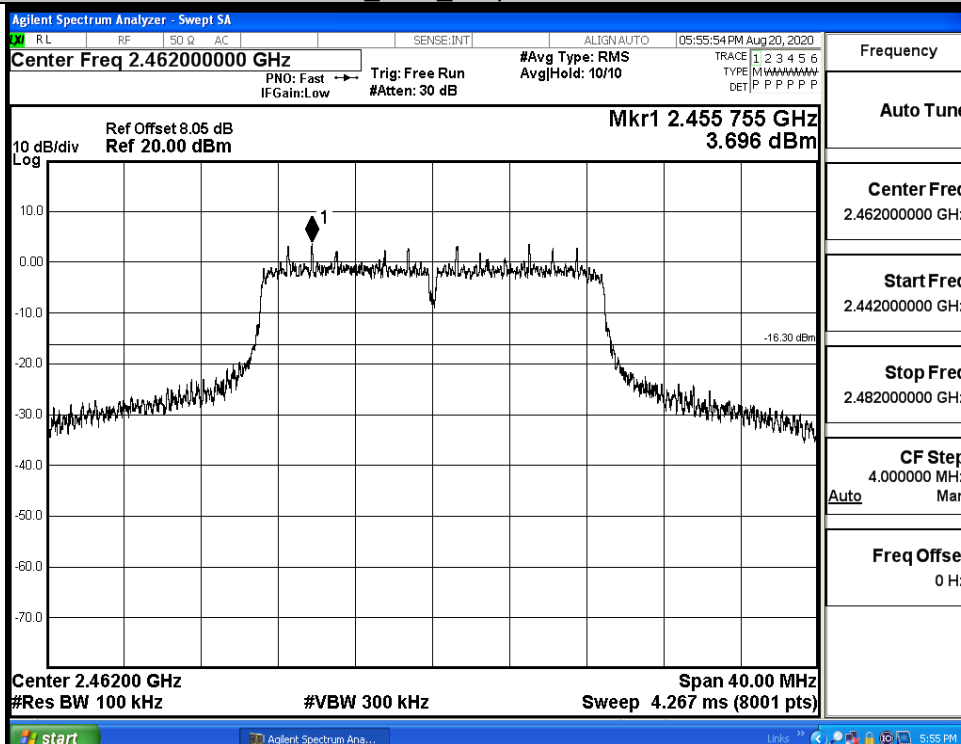
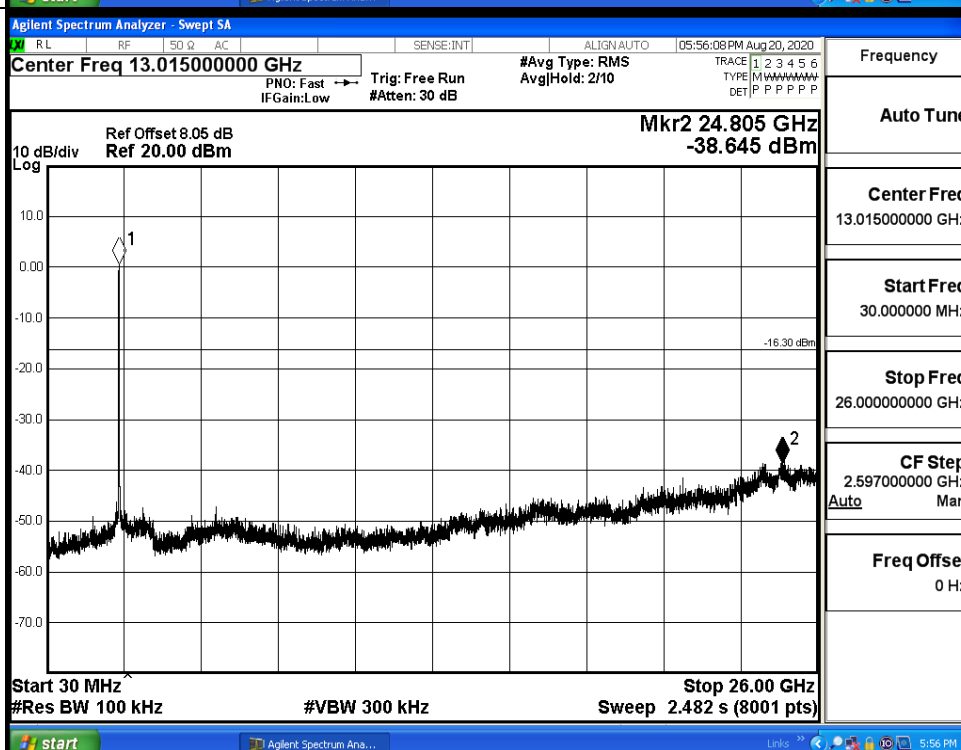
11N20SISO LCH Graphs

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

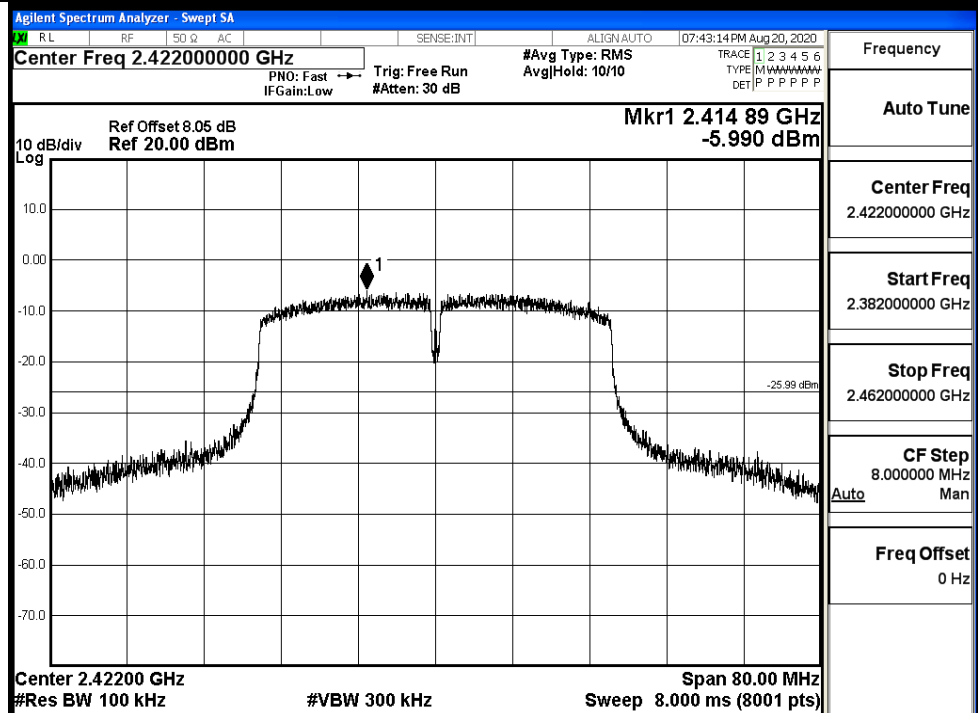
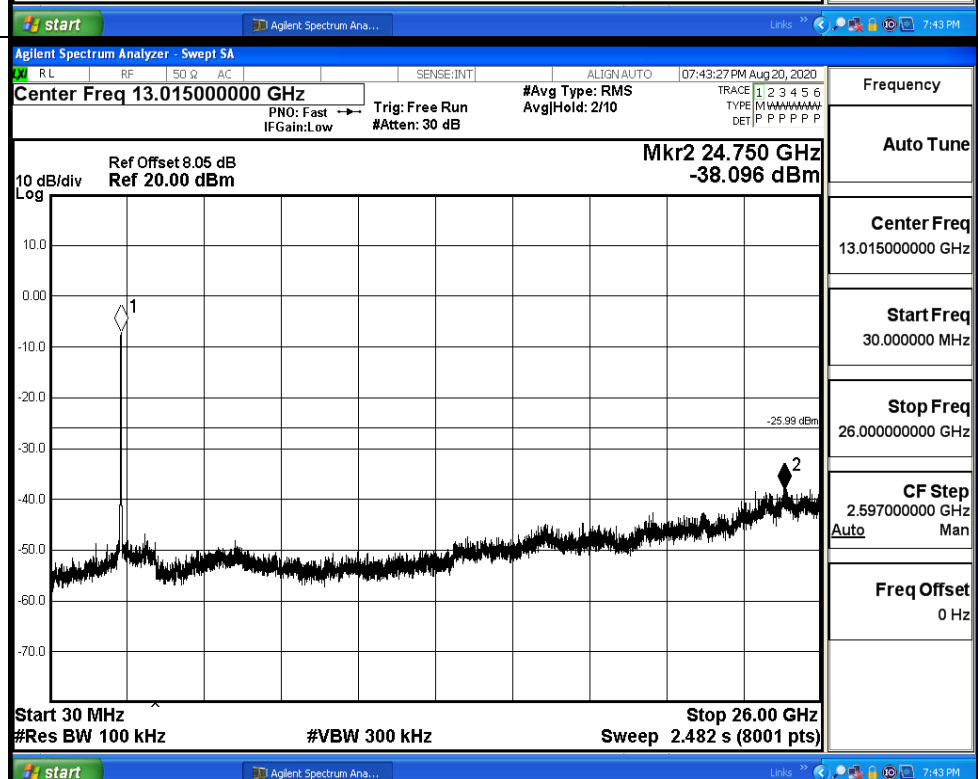
11N20SISO_MCH_Graphs

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

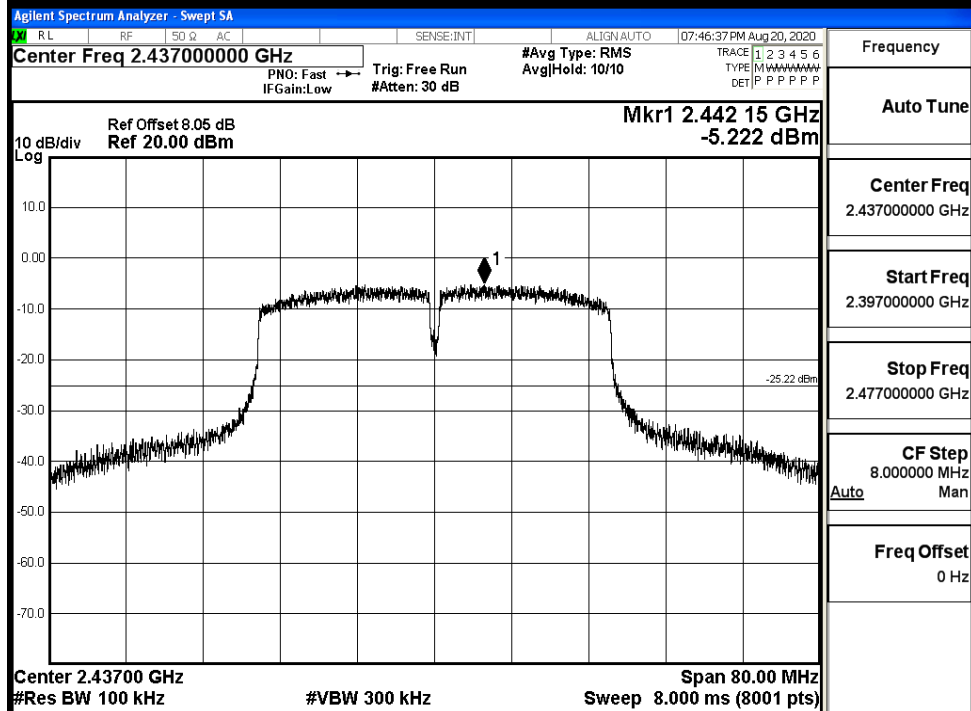
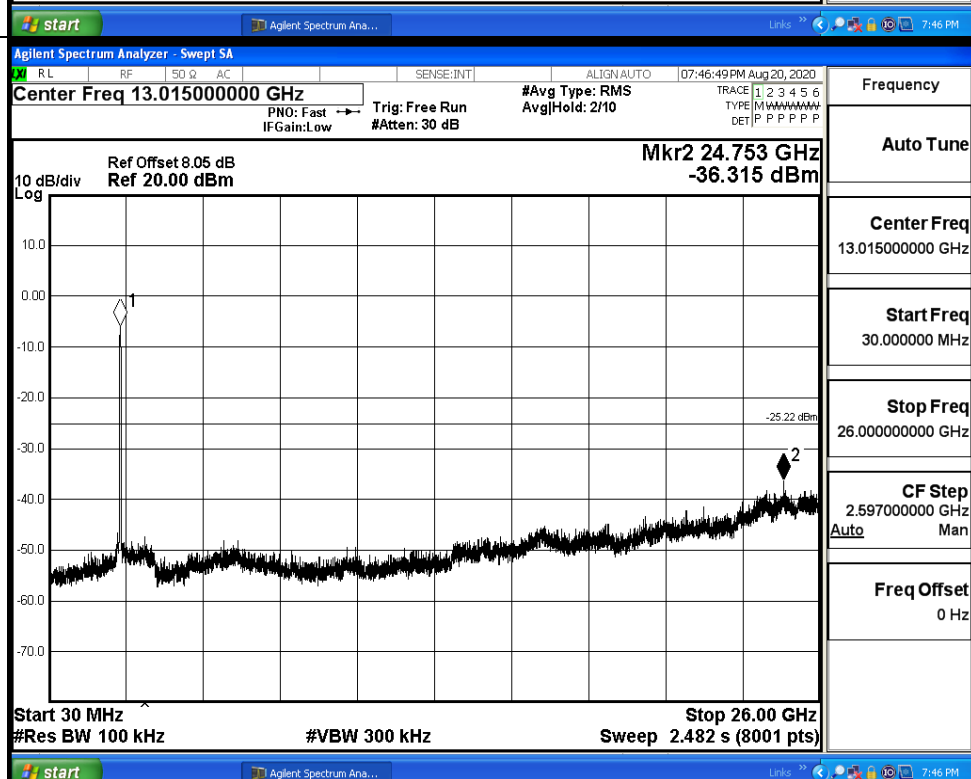
11N20SISO HCH Graphs

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

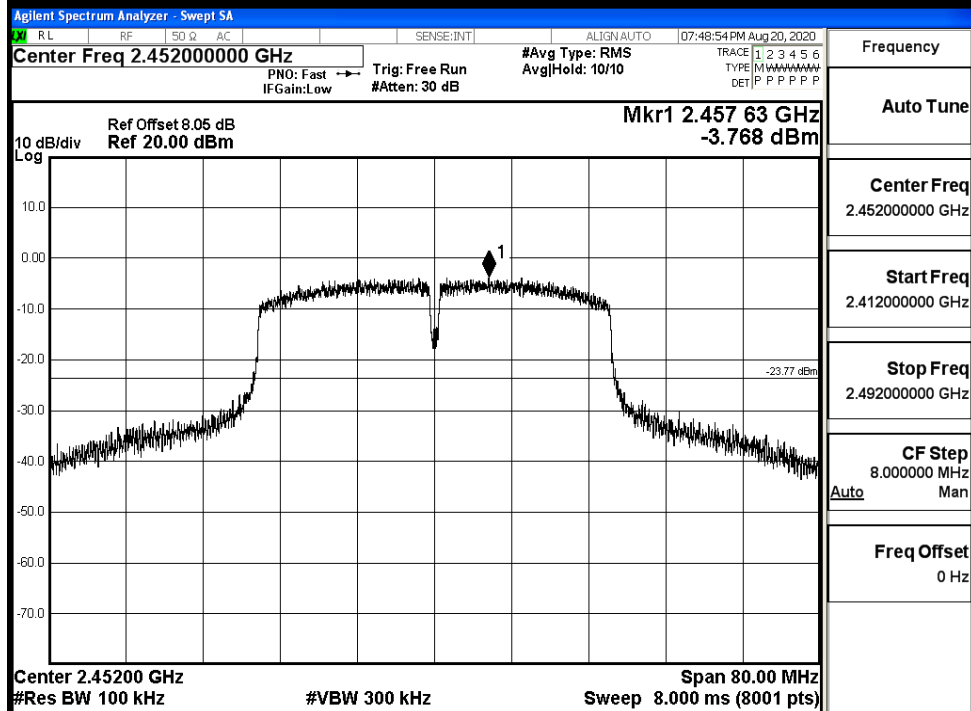
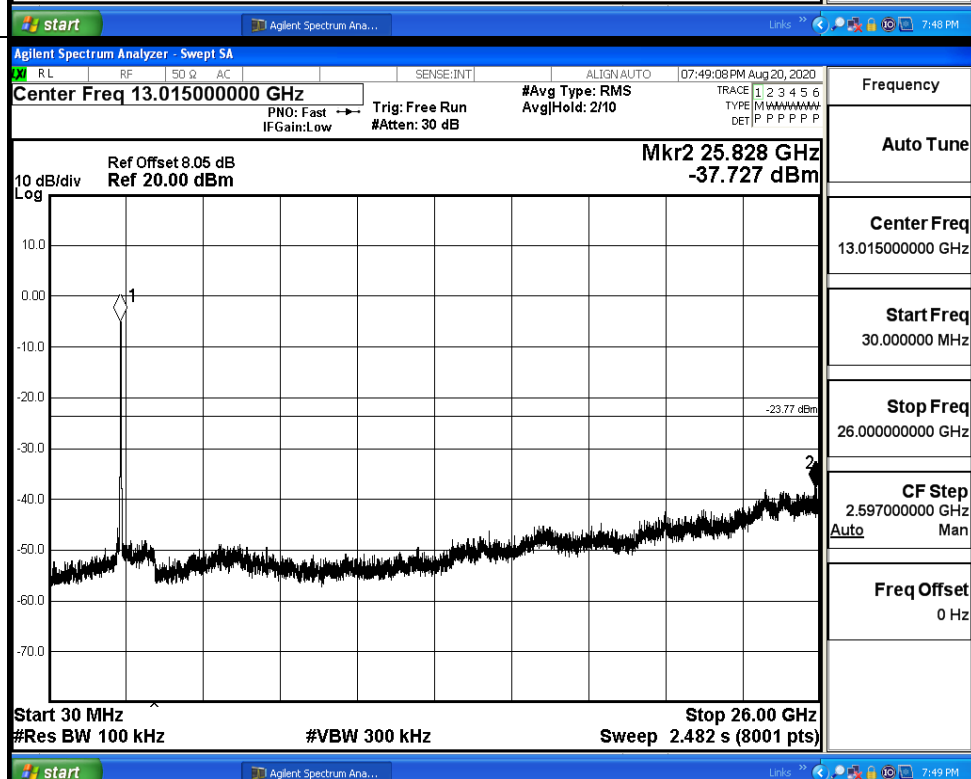
11N40SISO LCH Graphs

Pref/11N40
SISO/LCHPuw/11N40
SISO/LCH

11N40SISO_MCH_Graphs

Pref/11N40
SISO/MCHPuw/11N40
SISO/MCH

11N40SISO HCH Graphs

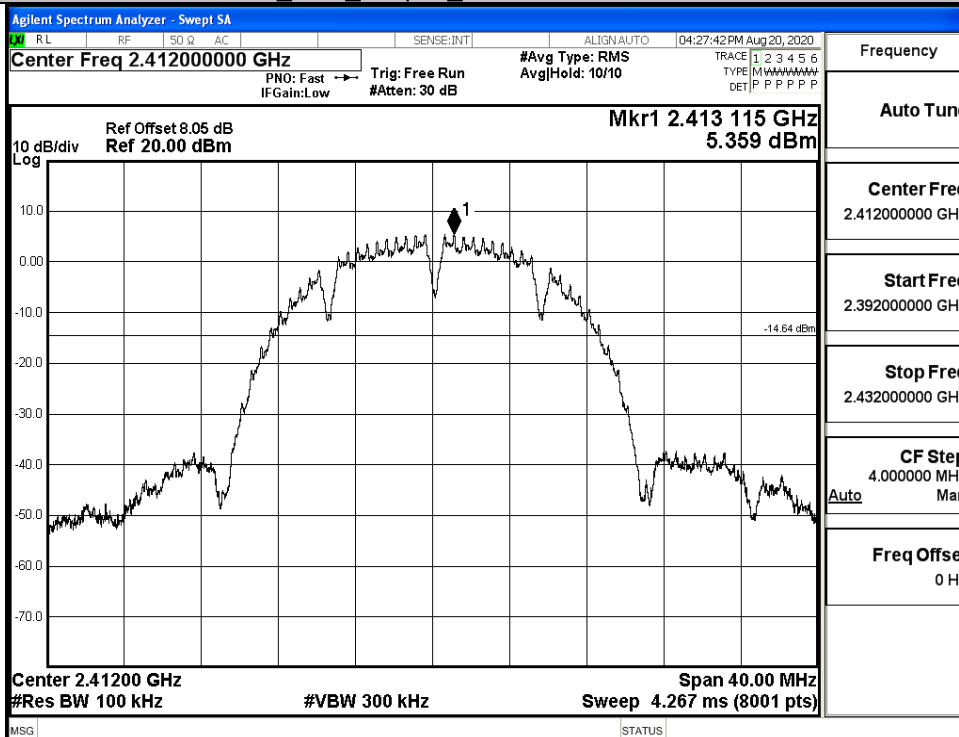
Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

Ant 1

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.359	-37.712	-14.641	PASS
	MCH	5.891	-37.464	-14.109	PASS
	HCH	6.578	-38.263	-13.422	PASS
11G	LCH	-3.031	-37.521	-23.031	PASS
	MCH	-2.218	-38.228	-22.218	PASS
	HCH	-1.13	-38.133	-21.130	PASS
11N20 SISO	LCH	-2.516	-37.038	-22.516	PASS
	MCH	-2.066	-38.506	-22.066	PASS
	HCH	-0.946	-38.390	-20.946	PASS
11N40 SISO	LCH	-4.97	-37.939	-24.970	PASS
	MCH	-4.322	-38.046	-24.322	PASS
	HCH	-4.185	-38.045	-24.185	PASS

11B_LCH_Graphs_Ant 1

Pref/11B/LCH



Puw/11B/LCH

