

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: smart media player

Trade Mark: ZIDOO

Test Model: Z9S

Environmental Conditions

Temperature:	24.3° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden.Zhuo

C.1 Duty Cycle

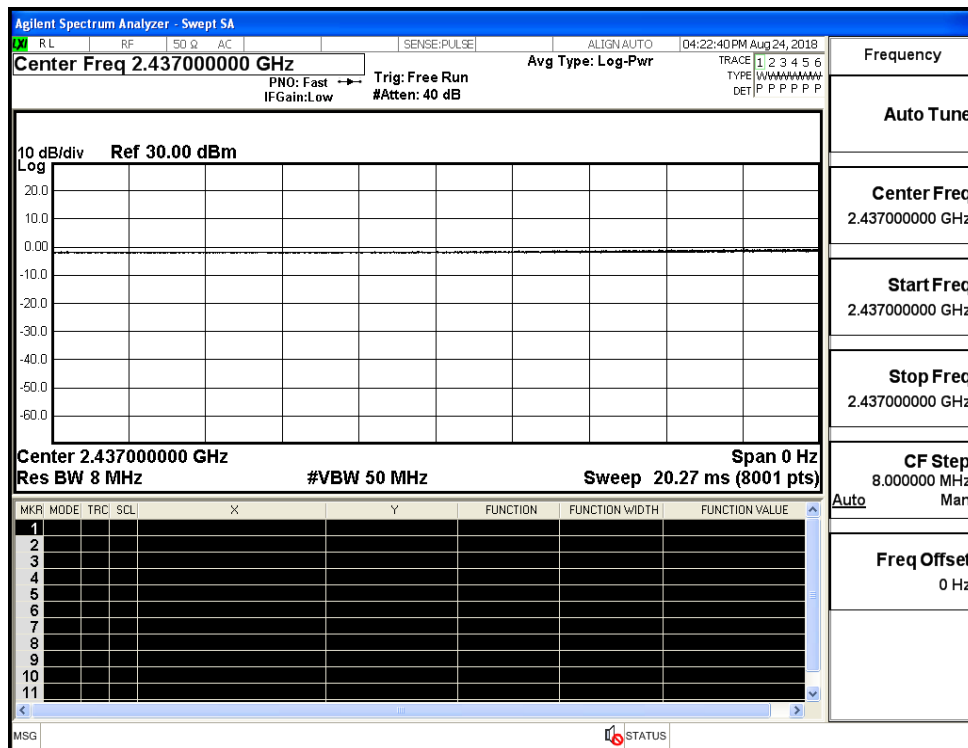
Antenna 0

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

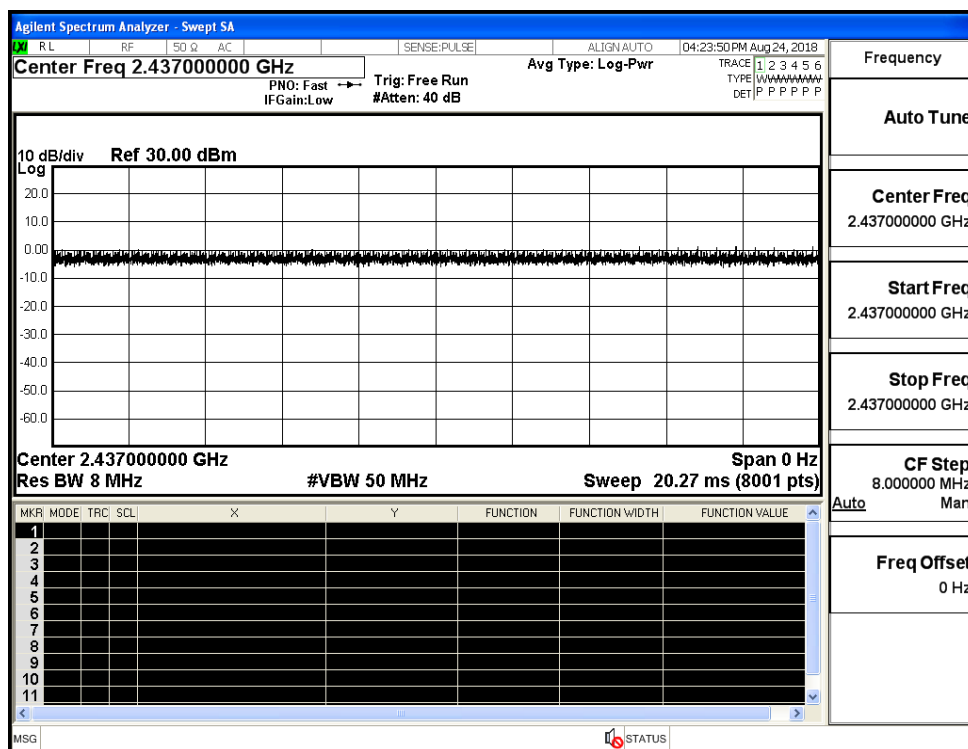
Antenna 1

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

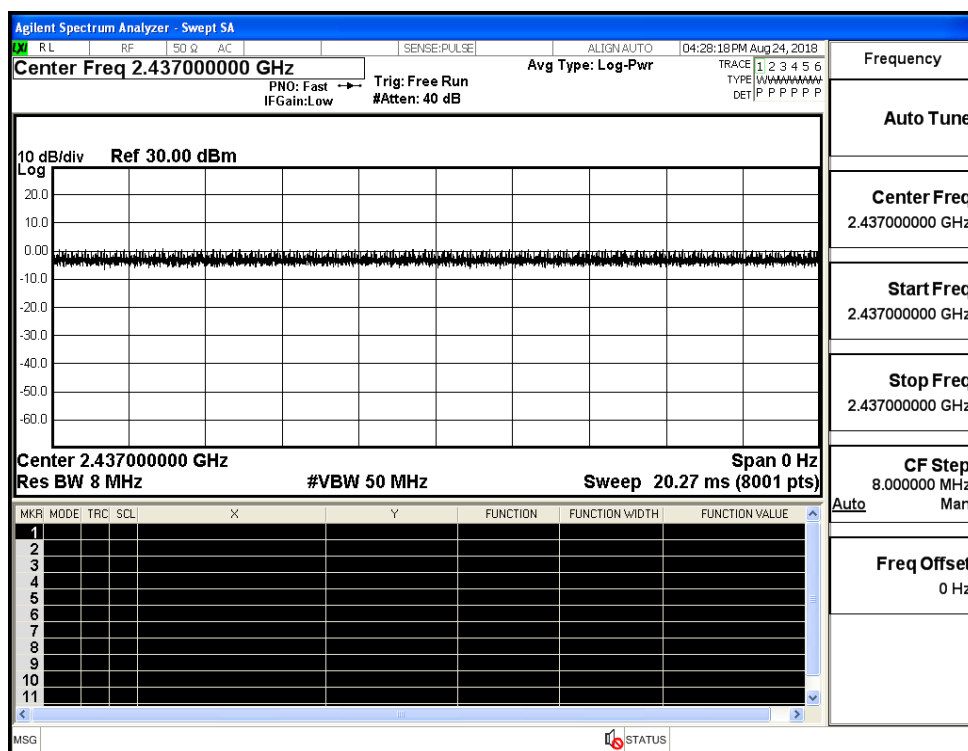
Duty Cycle_11B_2437_Ant0



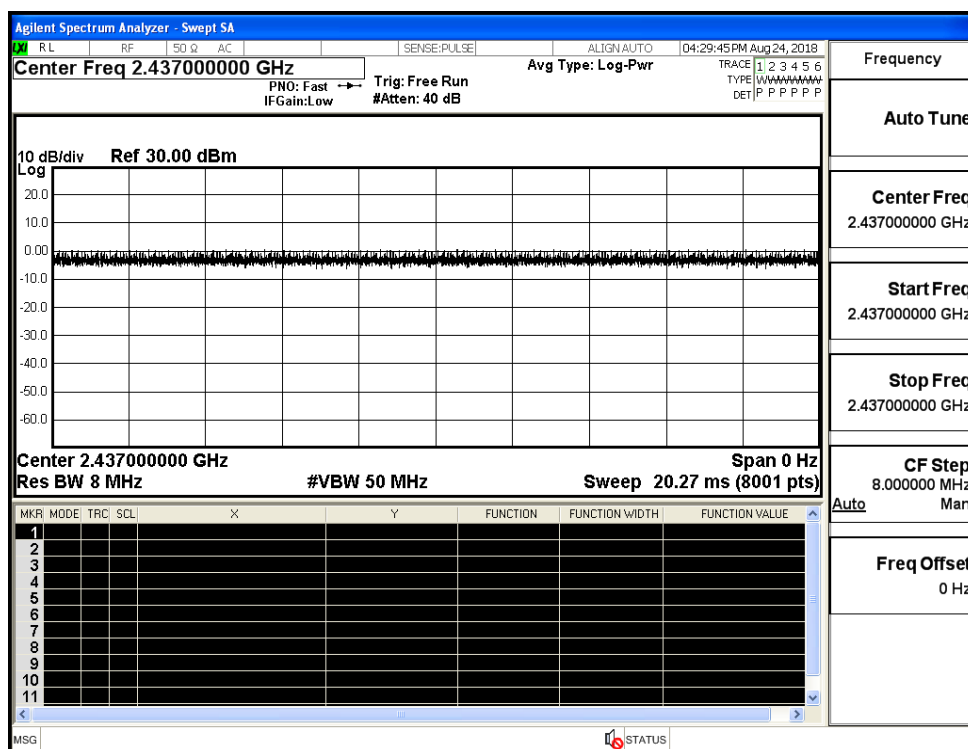
Duty Cycle_11G_2437_Ant0



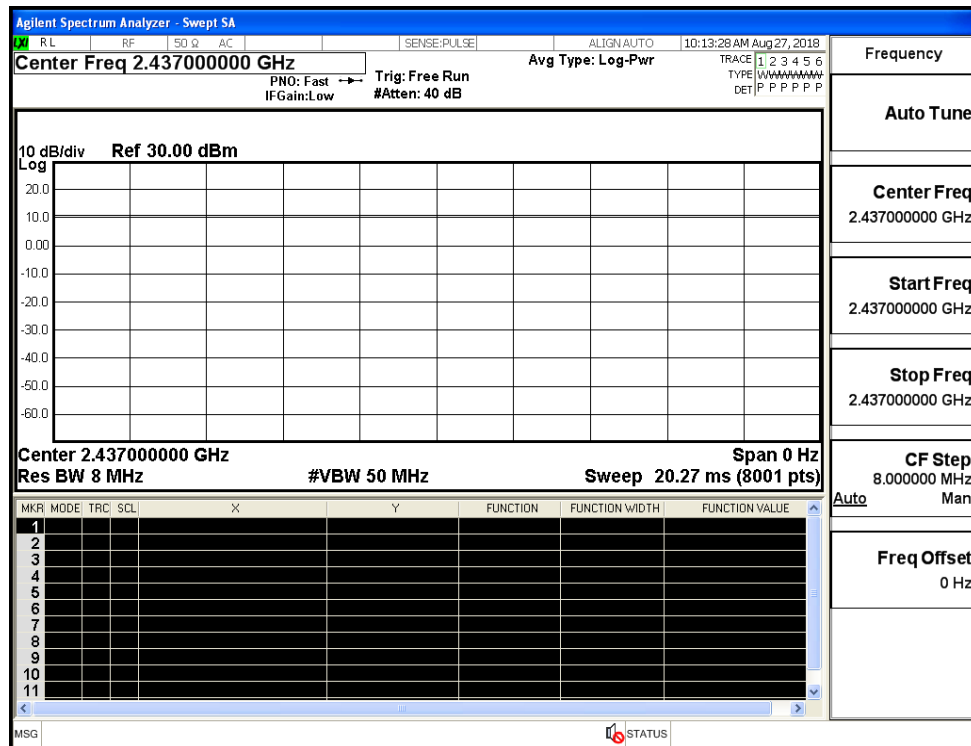
Duty Cycle_11N20SISO_2437_Ant0



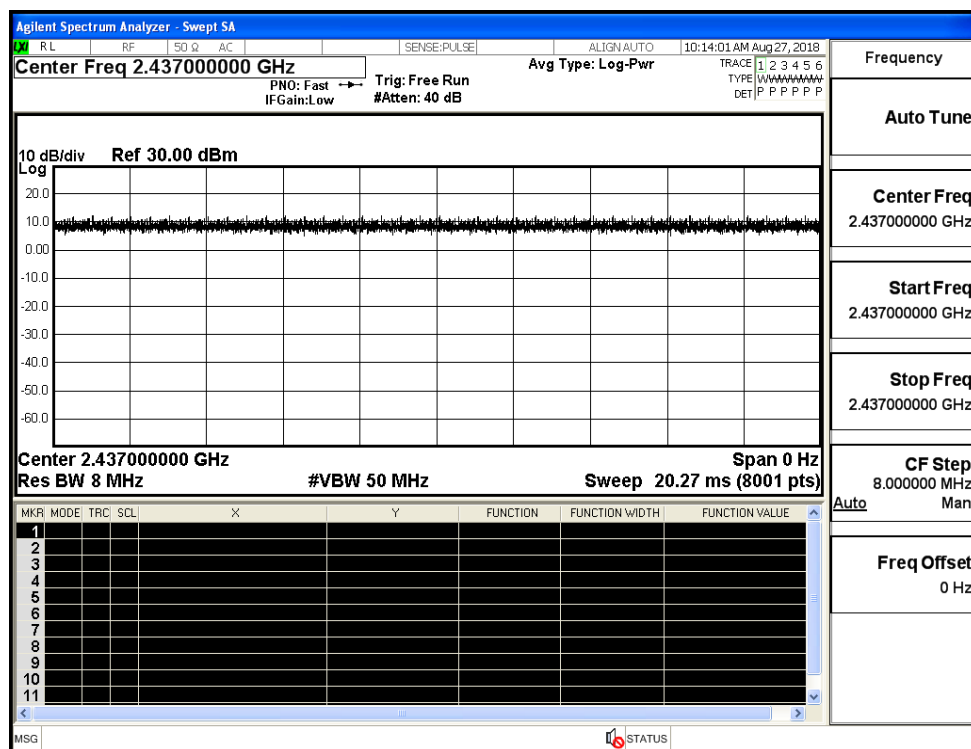
Duty Cycle_11N40SISO_2437_Ant0



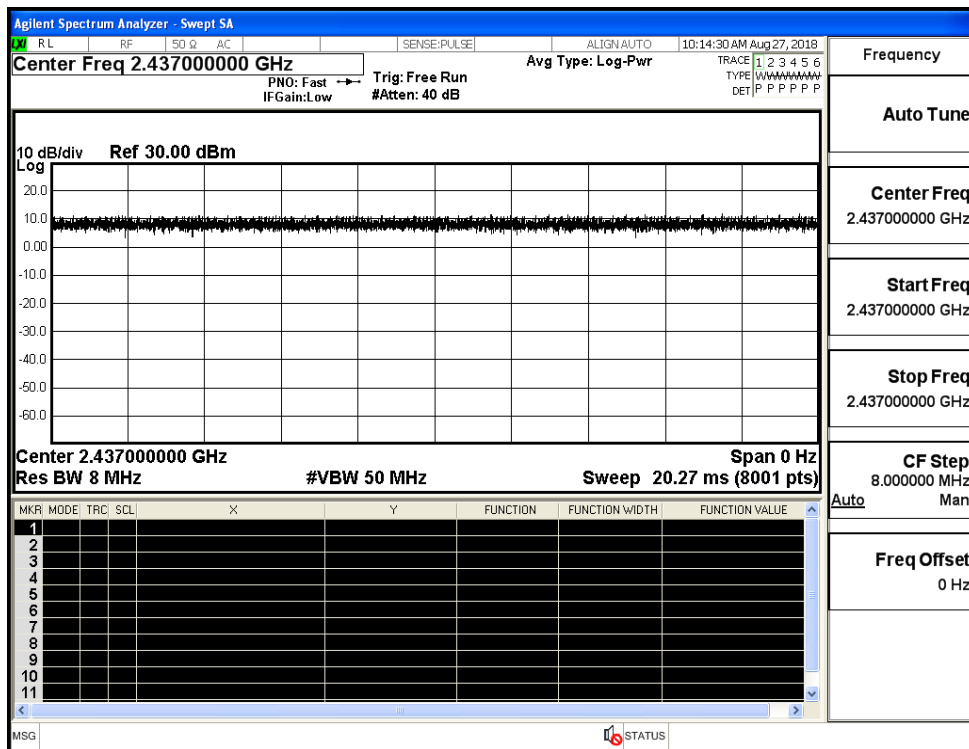
Duty Cycle_11B_2437_Ant0



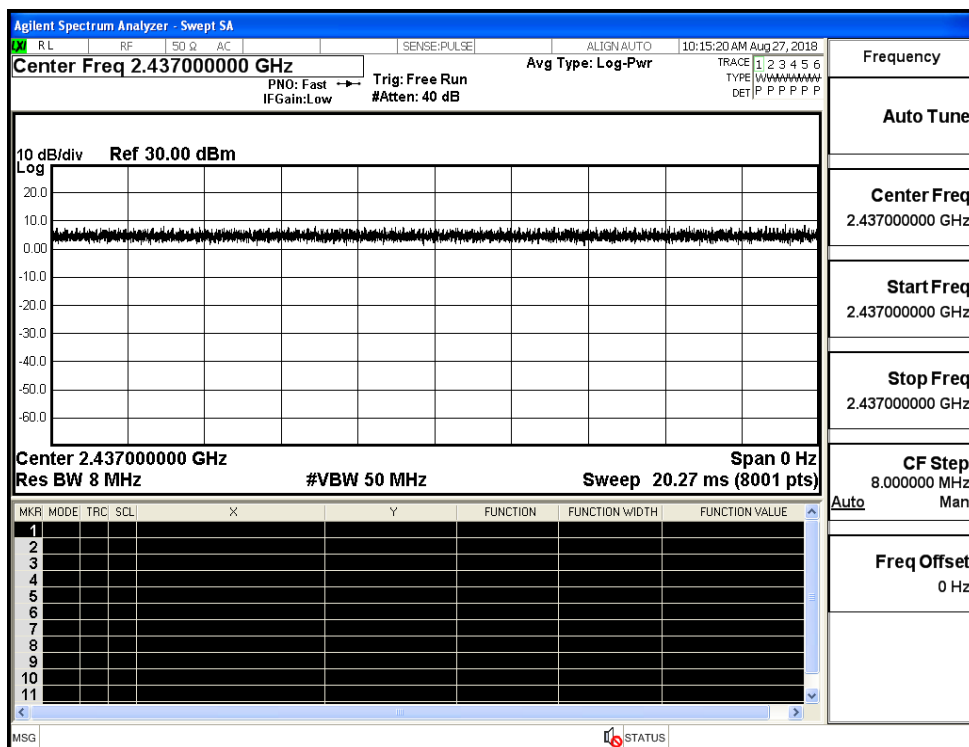
Duty Cycle_11G_2437_Ant0



Duty Cycle_11N20SISO_2437_Ant0



Duty Cycle_11N40SISO_2437_Ant0



C.2 Maximum Conducted Output Peak Power

Antenna 0

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.73	30	PASS
	MCH	17.74	30	PASS
	HCH	17.18	30	PASS
11G	LCH	16.99	30	PASS
	MCH	16.53	30	PASS
	HCH	16.23	30	PASS
11N20SISO	LCH	15.78	30	PASS
	MCH	15.69	30	PASS
	HCH	15.36	30	PASS
11N40SISO	LCH	14.30	30	PASS
	MCH	14.29	30	PASS
	HCH	14.73	30	PASS

Antenna 1

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	17.38	30	PASS
	MCH	17.56	30	PASS
	HCH	17.42	30	PASS
11G	LCH	16.59	30	PASS
	MCH	16.45	30	PASS
	HCH	16.93	30	PASS
11N20SISO	LCH	15.81	30	PASS
	MCH	15.69	30	PASS
	HCH	15.10	30	PASS
11N40SISO	LCH	14.94	30	PASS
	MCH	14.59	30	PASS
	HCH	14.69	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
11N20MIMO	LCH	15.78	15.81	18.81	30	PASS
	MCH	15.69	15.69	18.70	30	PASS
	HCH	15.36	15.10	18.24	30	PASS
11N40MIMO	LCH	14.30	14.94	17.64	30	PASS
	MCH	14.29	14.59	17.45	30	PASS
	HCH	14.73	14.69	17.72	30	PASS

C.3 Maximum Power Spectral Density

Antenna 0

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-10.132	8	PASS
	MCH	-10.136	8	PASS
	HCH	-8.725	8	PASS
11G	LCH	-13.977	8	PASS
	MCH	-14.307	8	PASS
	HCH	-14.669	8	PASS
11N20SISO	LCH	-13.918	8	PASS
	MCH	-13.772	8	PASS
	HCH	-14.151	8	PASS
11N40SISO	LCH	-16.538	8	PASS
	MCH	-17.718	8	PASS
	HCH	-18.195	8	PASS

Antenna 1

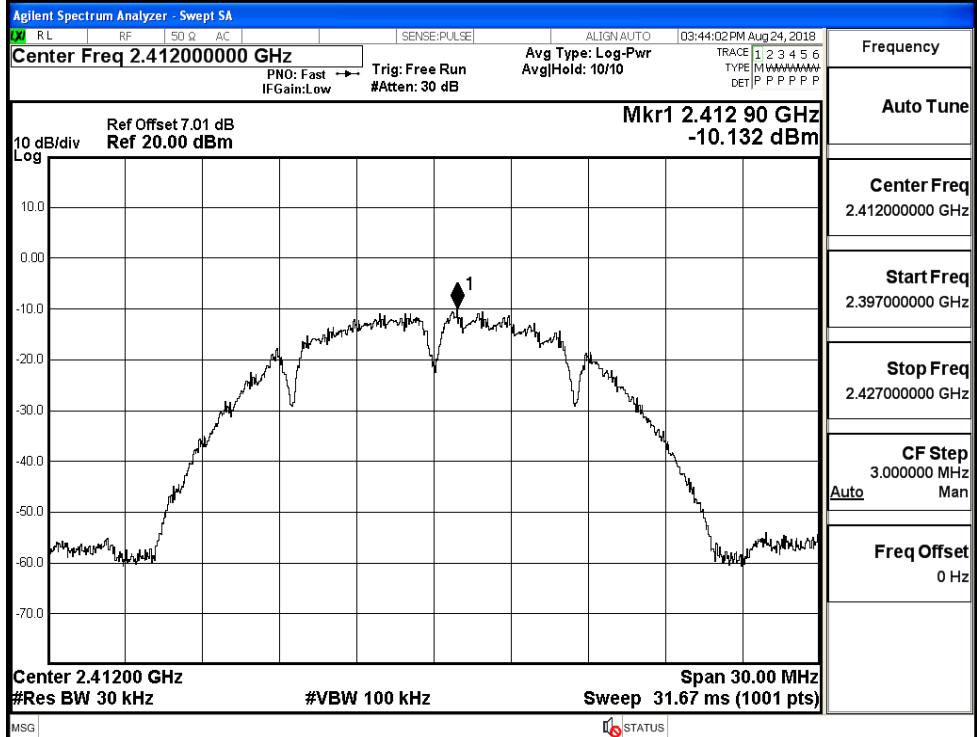
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-5.567	8	PASS
	MCH	-9.721	8	PASS
	HCH	-9.837	8	PASS
11G	LCH	-13.084	8	PASS
	MCH	-13.370	8	PASS
	HCH	-13.955	8	PASS
11N20SISO	LCH	-13.725	8	PASS
	MCH	-10.597	8	PASS
	HCH	-14.323	8	PASS
11N40SISO	LCH	-17.295	8	PASS
	MCH	-17.785	8	PASS
	HCH	-17.373	8	PASS

Antenna 0 + Antenna 1

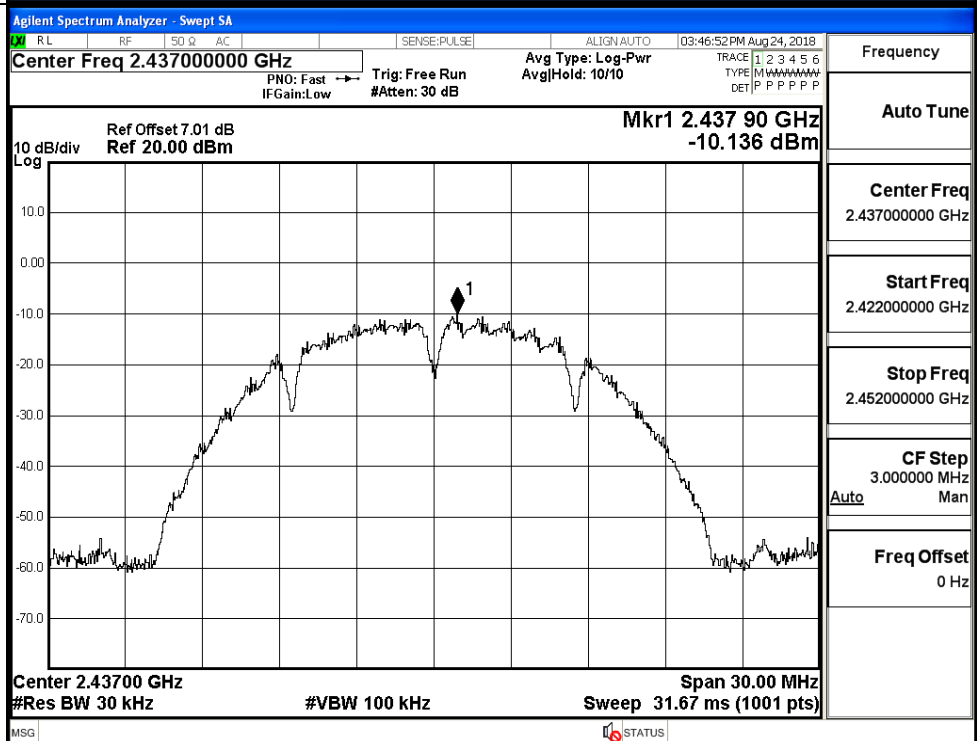
Mode	Channel	Meas.Level at Antenna 0 [dBm/30KHz]	Meas.Level at Antenna 1 [dBm/30Kz]	Sum Antenna 0 and Antenna 1 [dBm/30KHz]	Limit [dBm/30KHz]	Verdict
11N20MIMO	LCH	-13.918	-13.725	-10.810	7.99	PASS
	MCH	-13.772	-10.597	-8.890	7.99	PASS
	HCH	-14.151	-14.323	-11.226	7.99	PASS
11N40MIMO	LCH	-16.538	-17.295	-13.890	7.99	PASS
	MCH	-17.718	-17.785	-14.741	7.99	PASS
	HCH	-18.195	-17.373	-14.754	7.99	PASS

Test Graphs_Ant 0

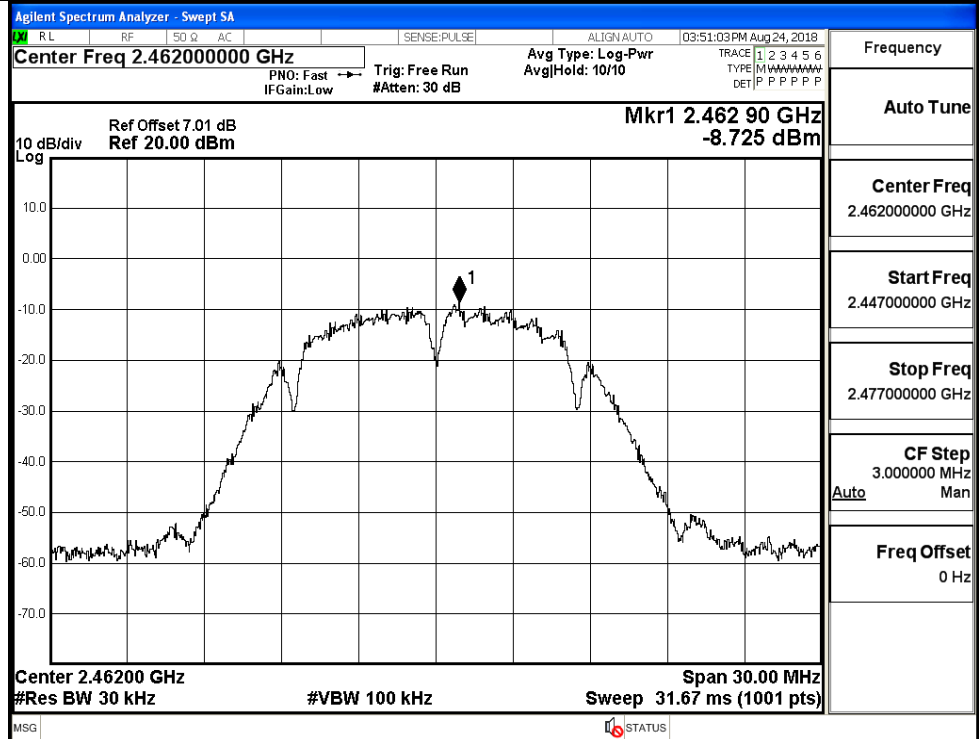
11B/LCH



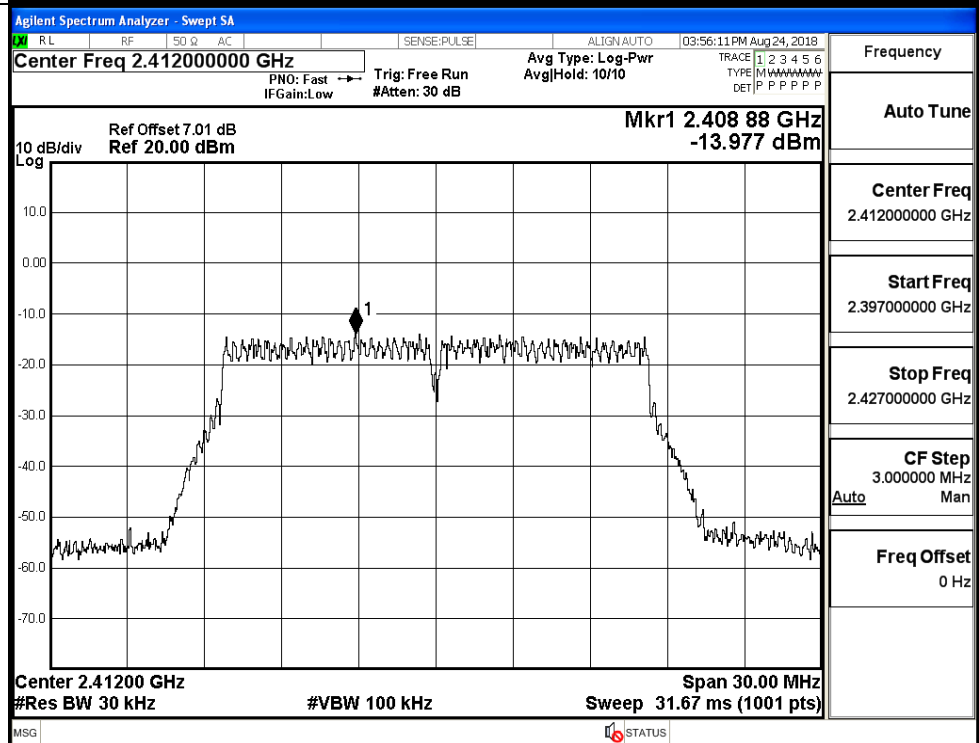
11B/MCH



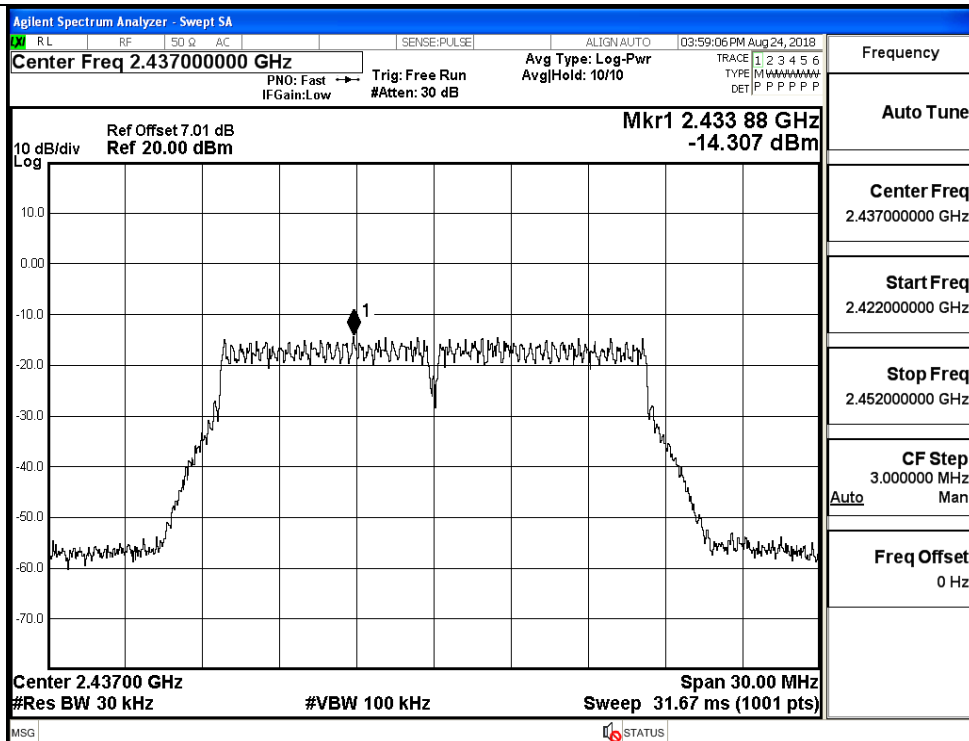
11B/HCH



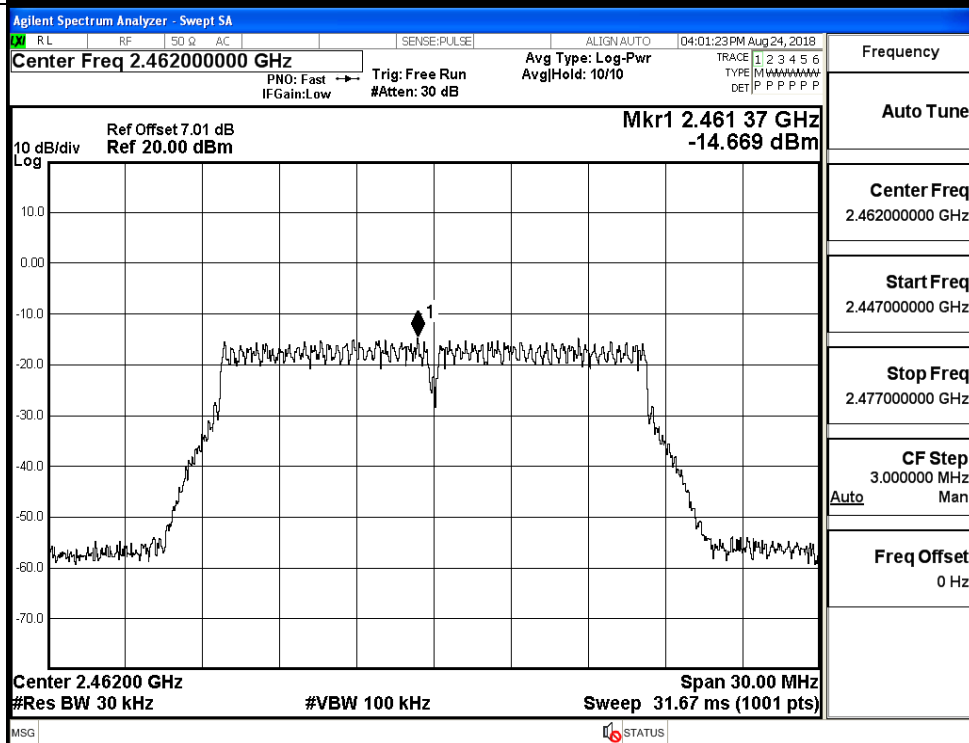
11G/LCH



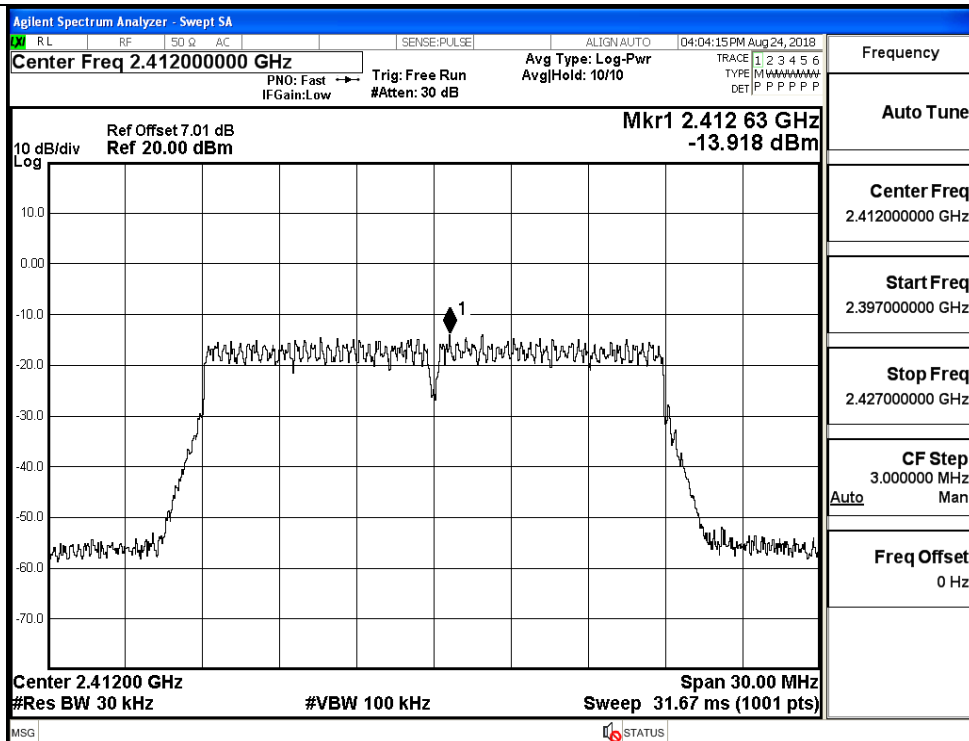
11G/MCH



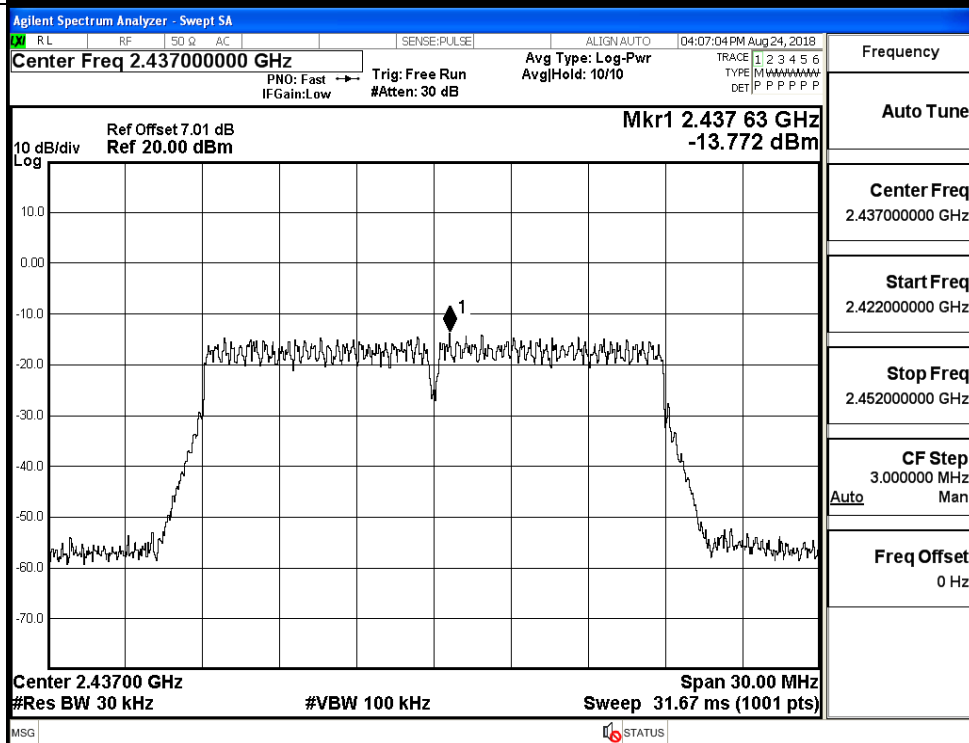
11G/HCH



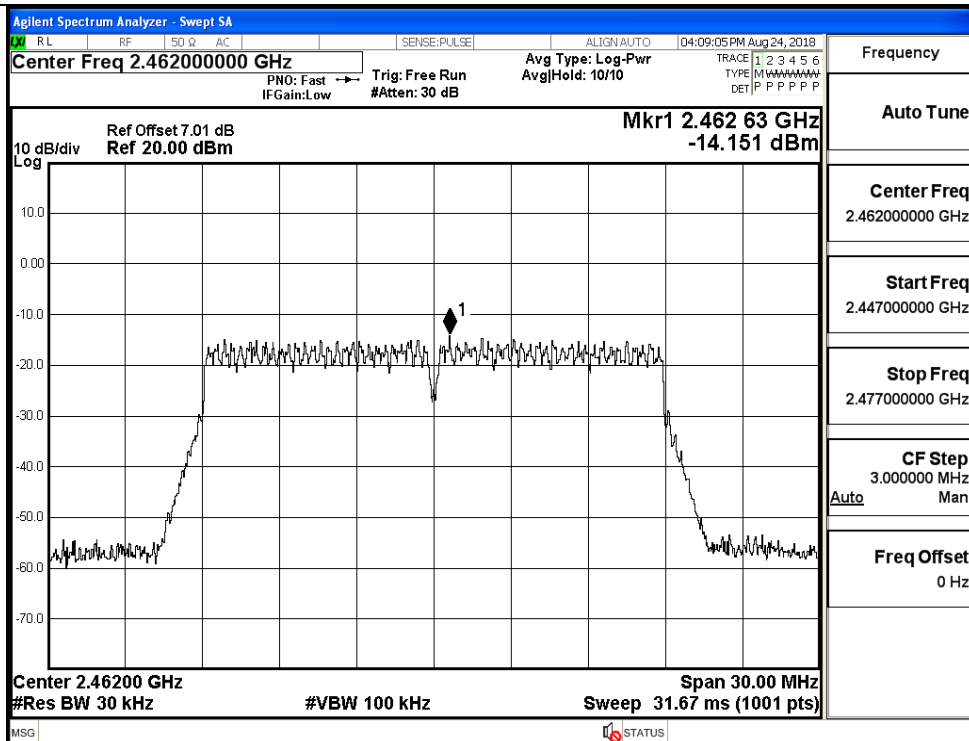
11N20SISO/LCH



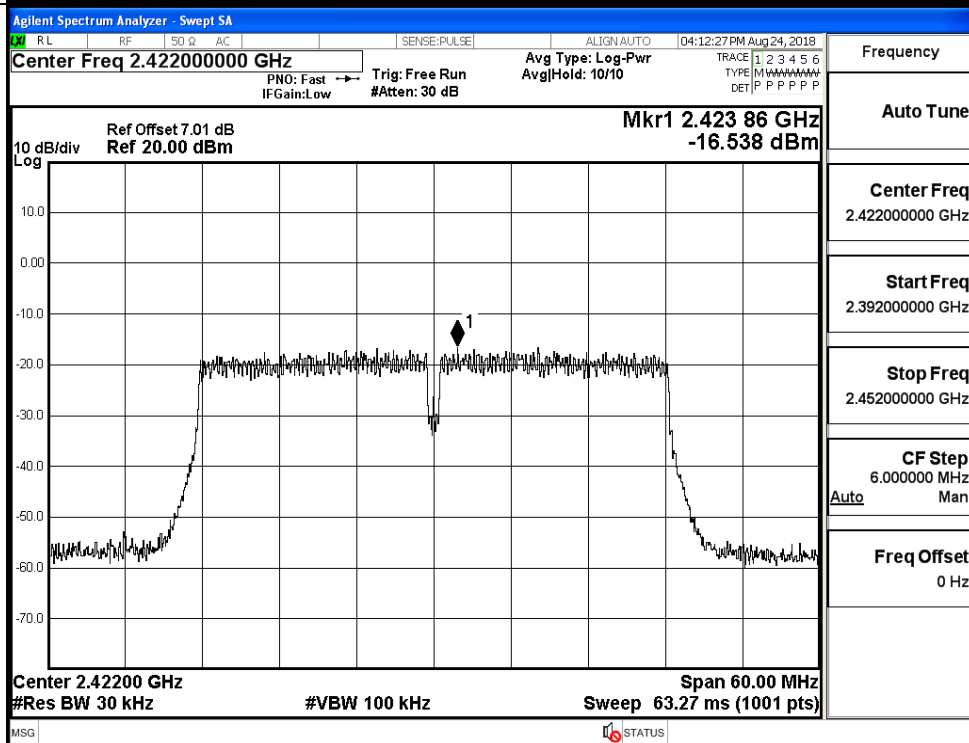
11N20SISO/MCH



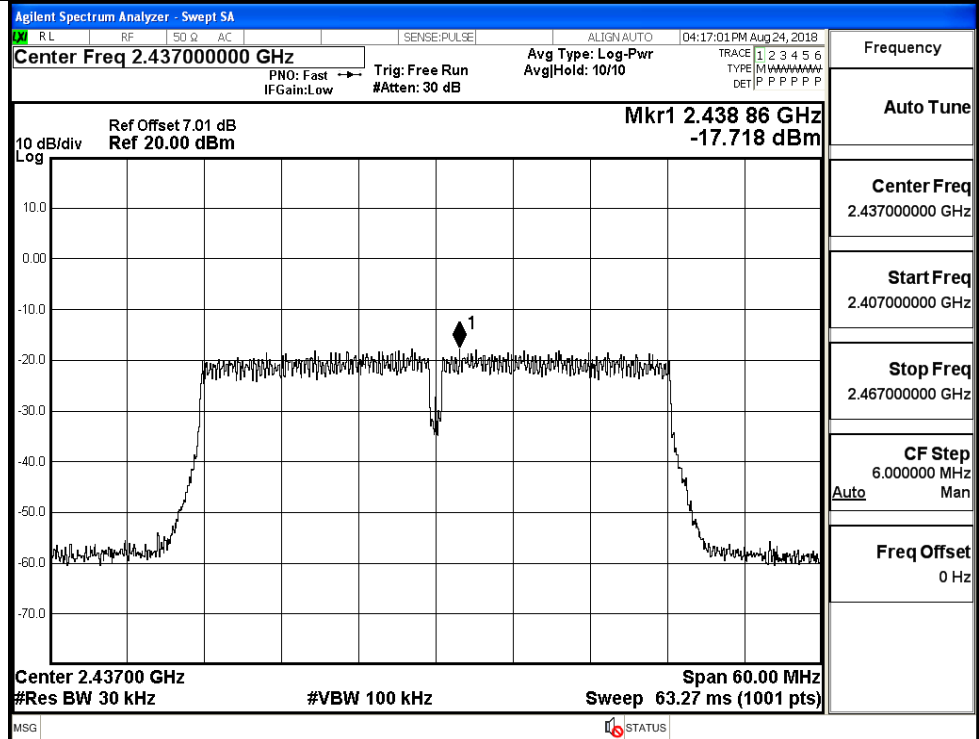
11N20SISO/HCH



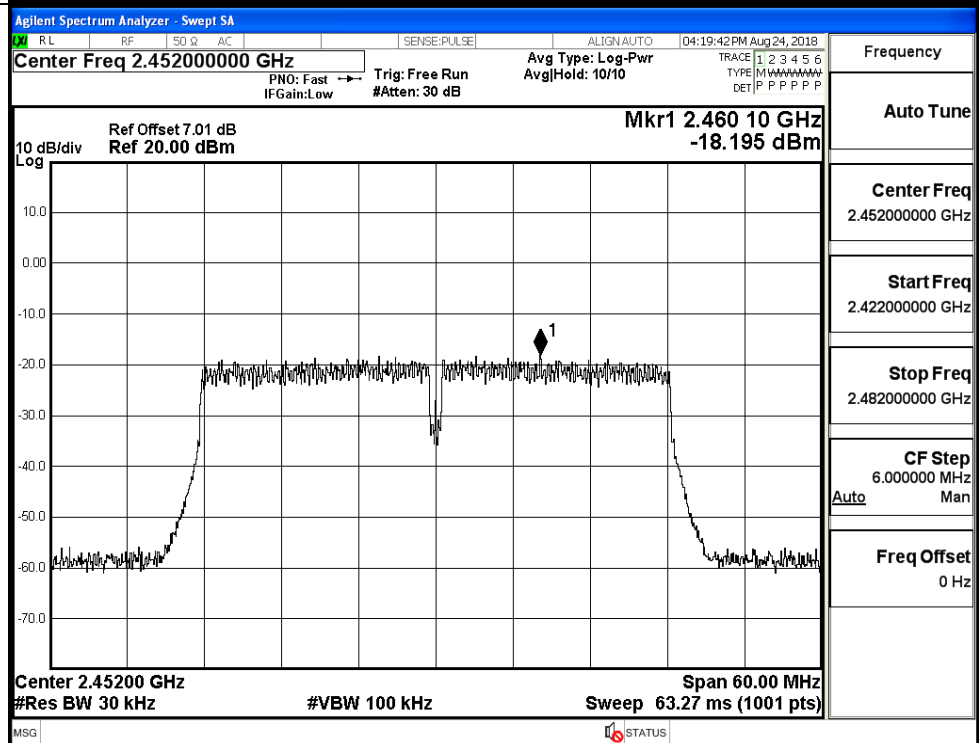
11N40SISO/LCH



11N40SISO/MCH

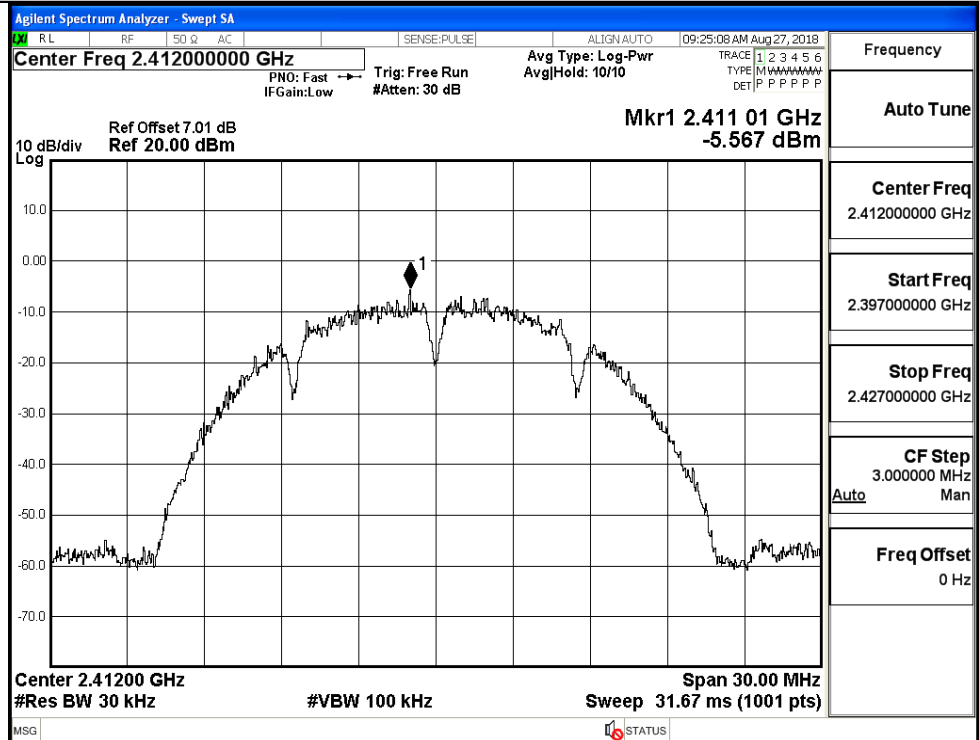


11N40SISO/HCH

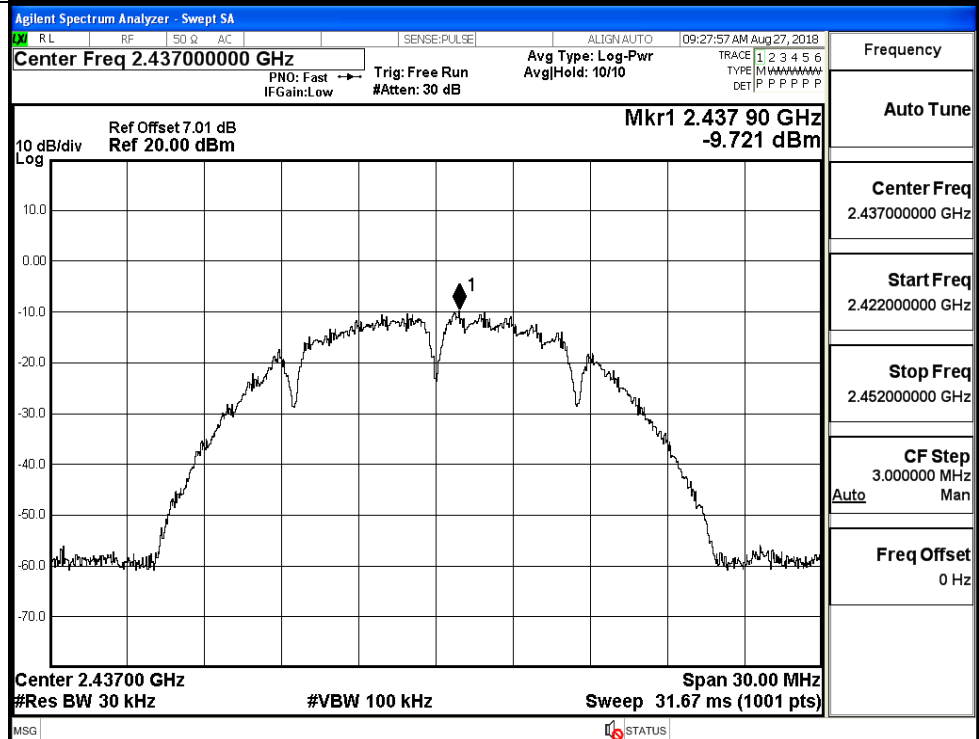


Test Graphs_Ant 1

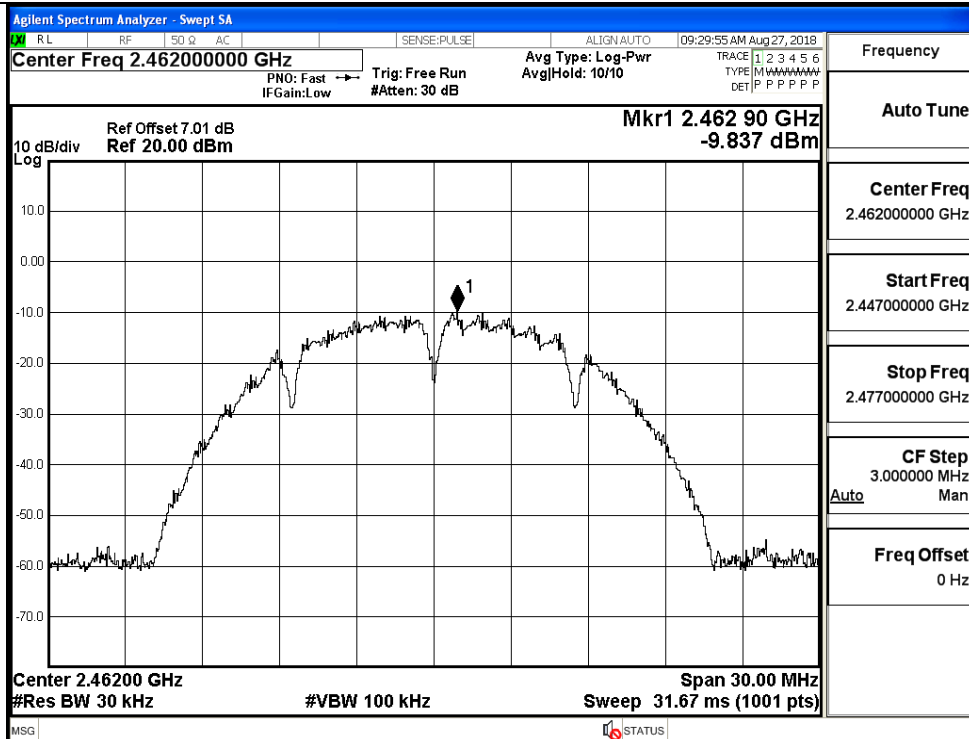
11B/LCH



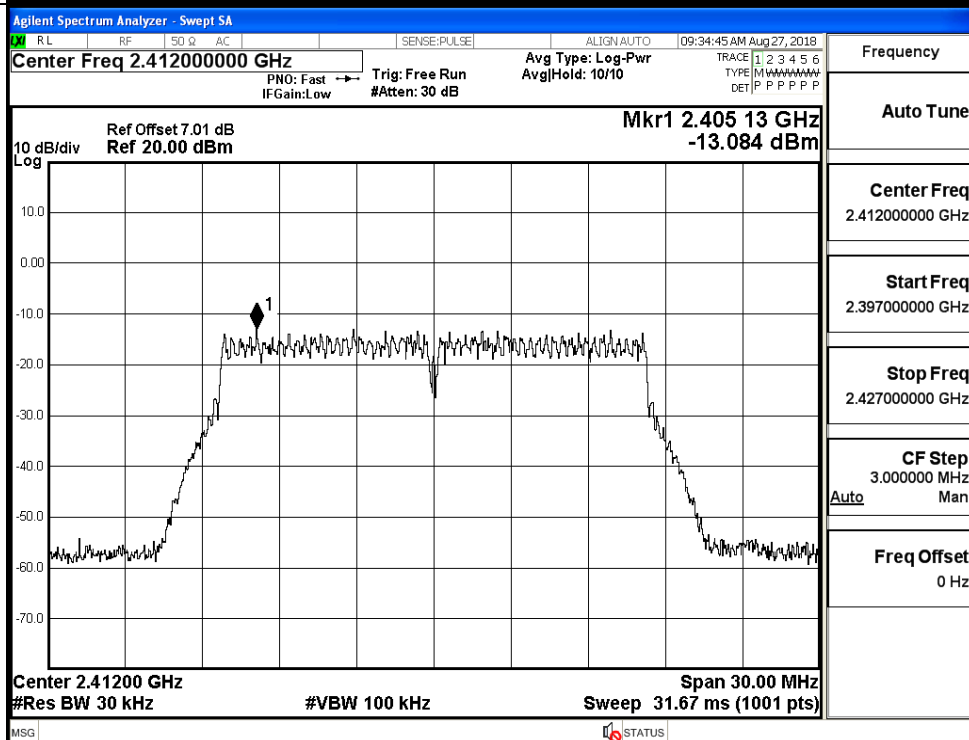
11B/MCH



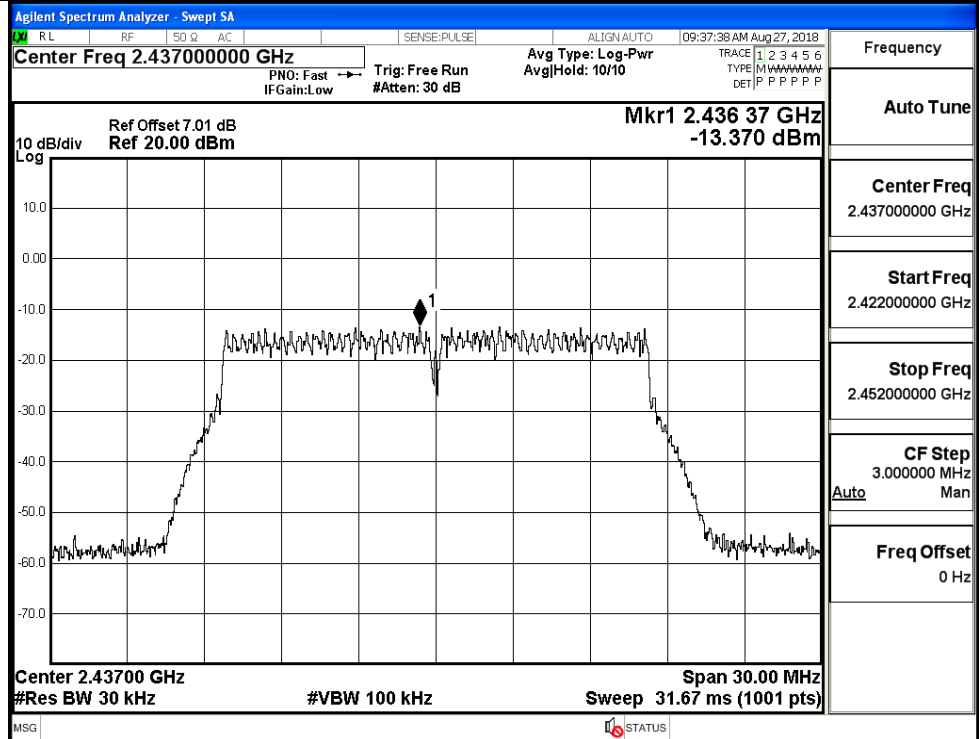
11B/HCH



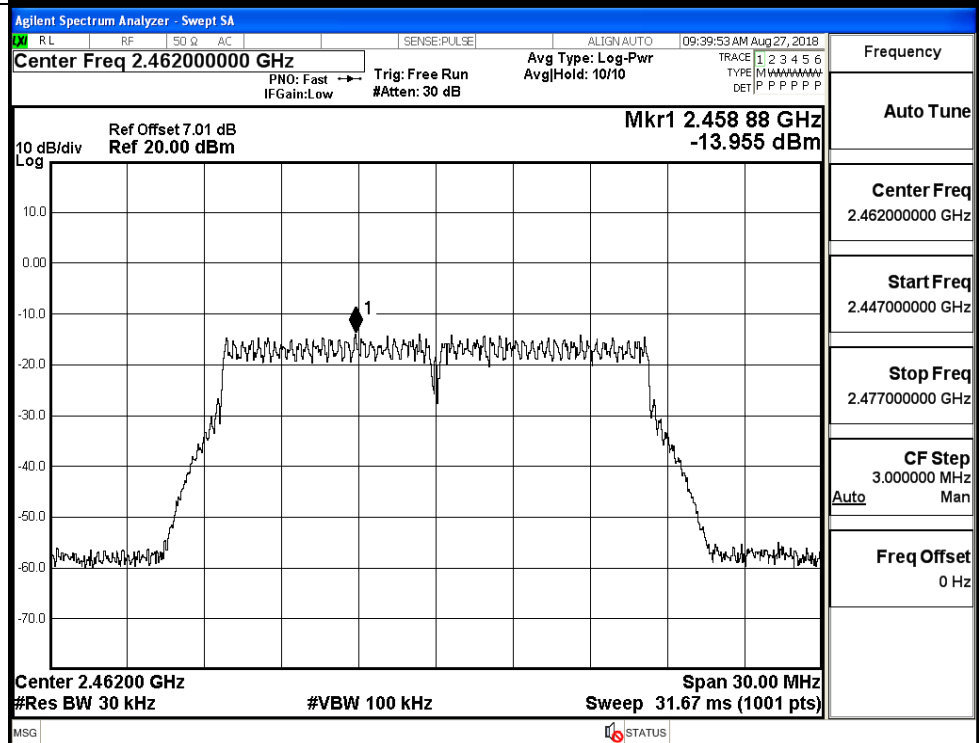
11G/LCH



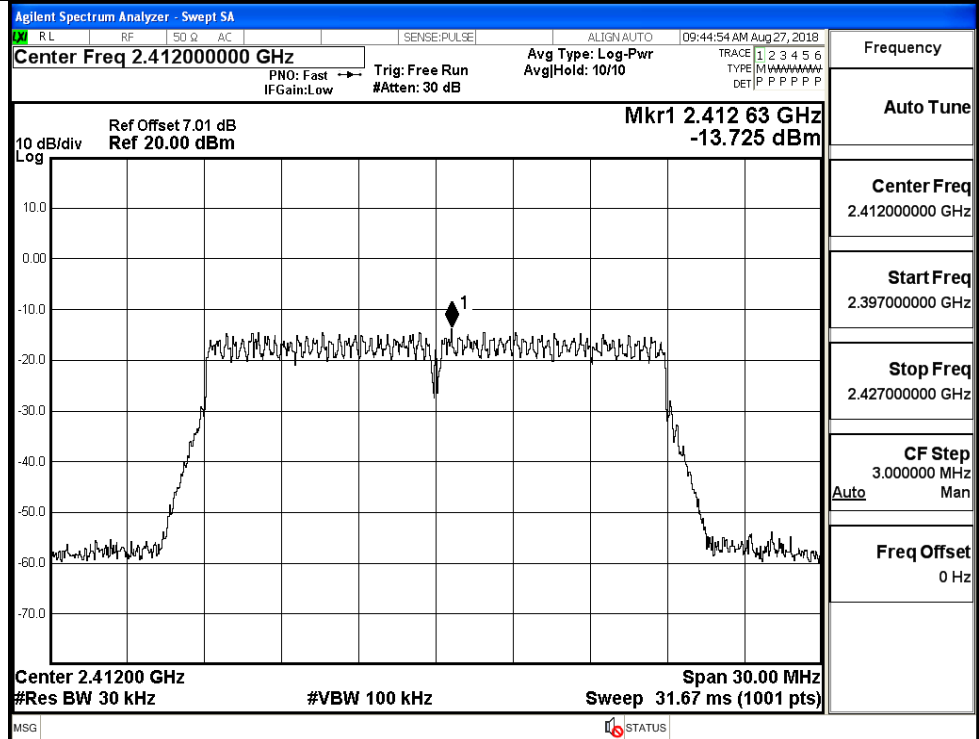
11G/MCH



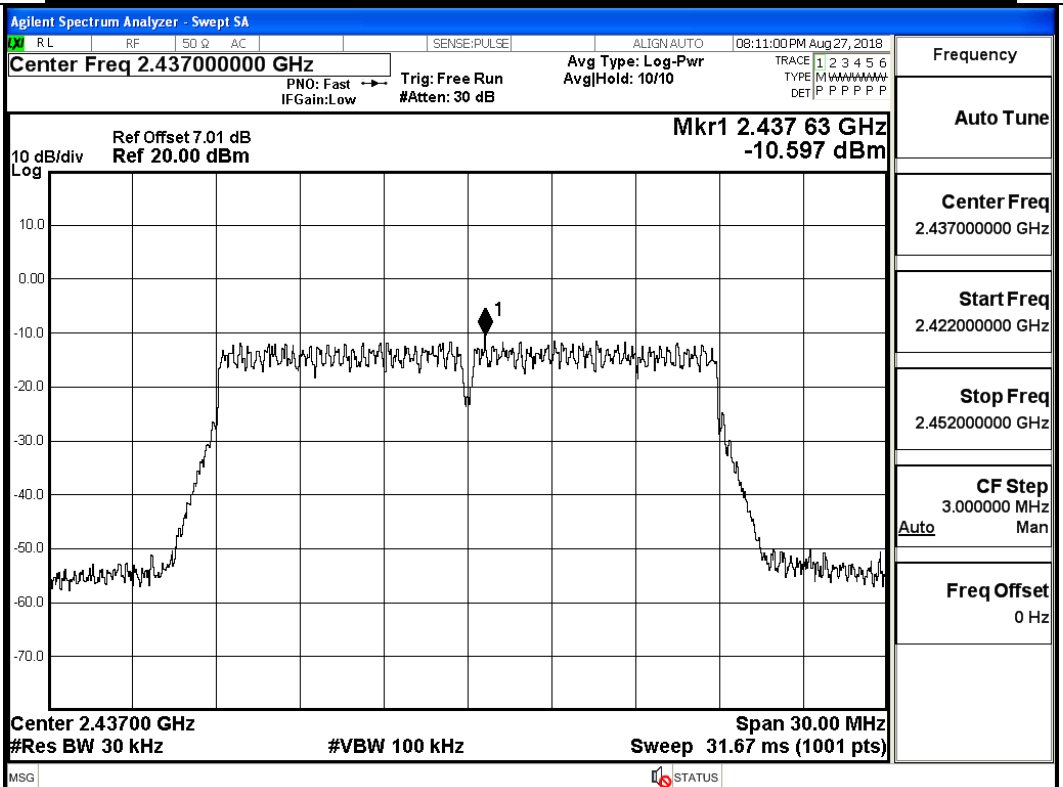
11G/HCH



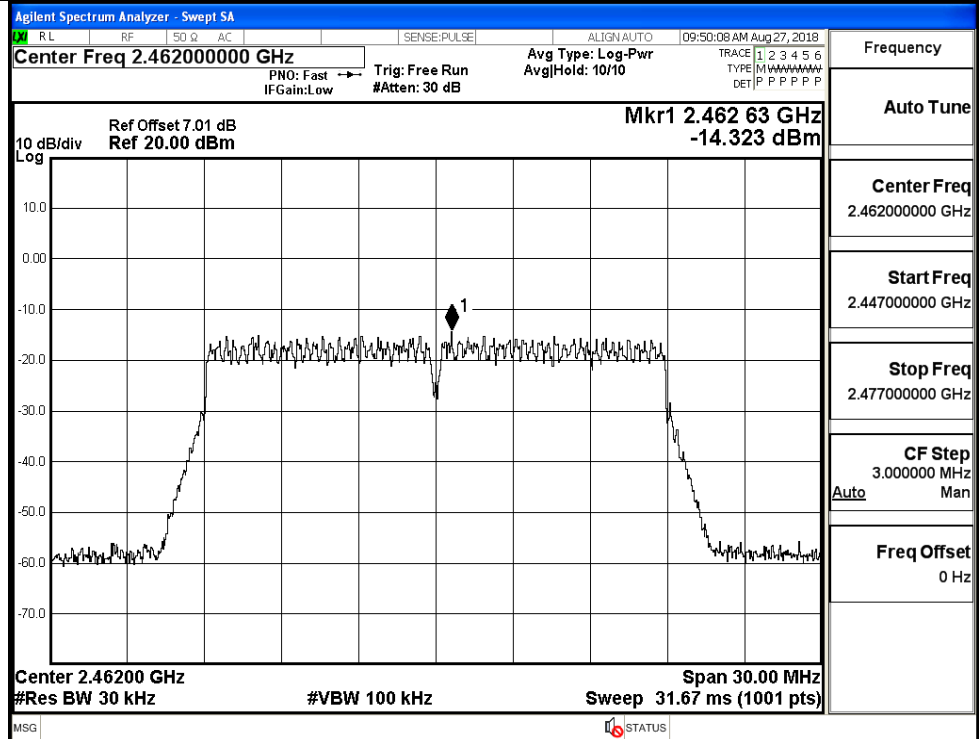
11N20SISO/LCH



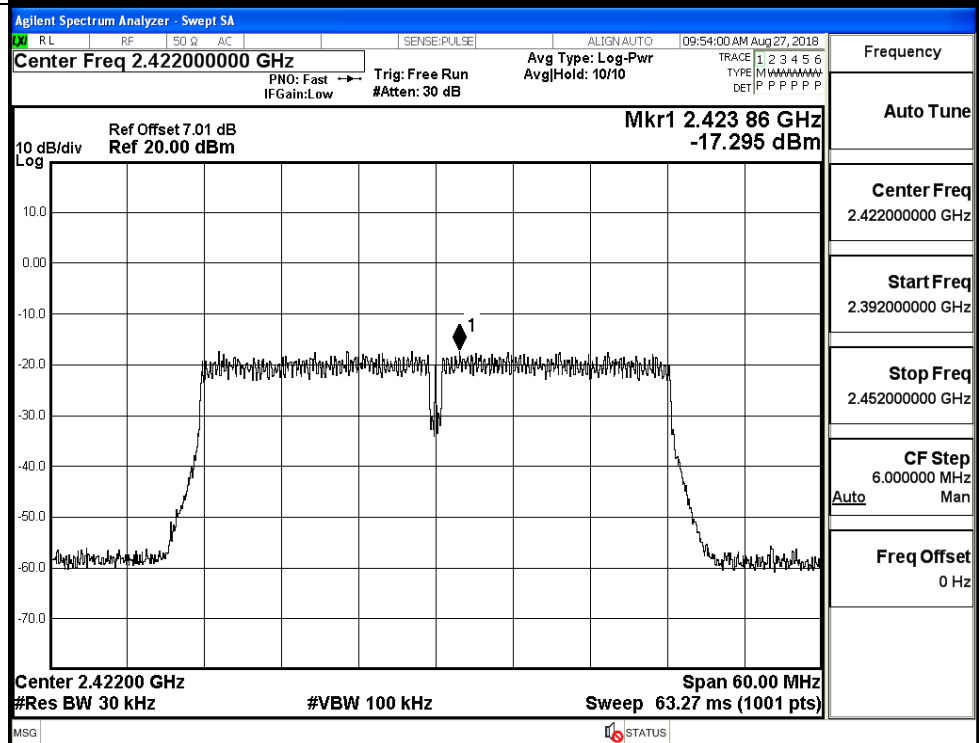
11N20SISO/MCH



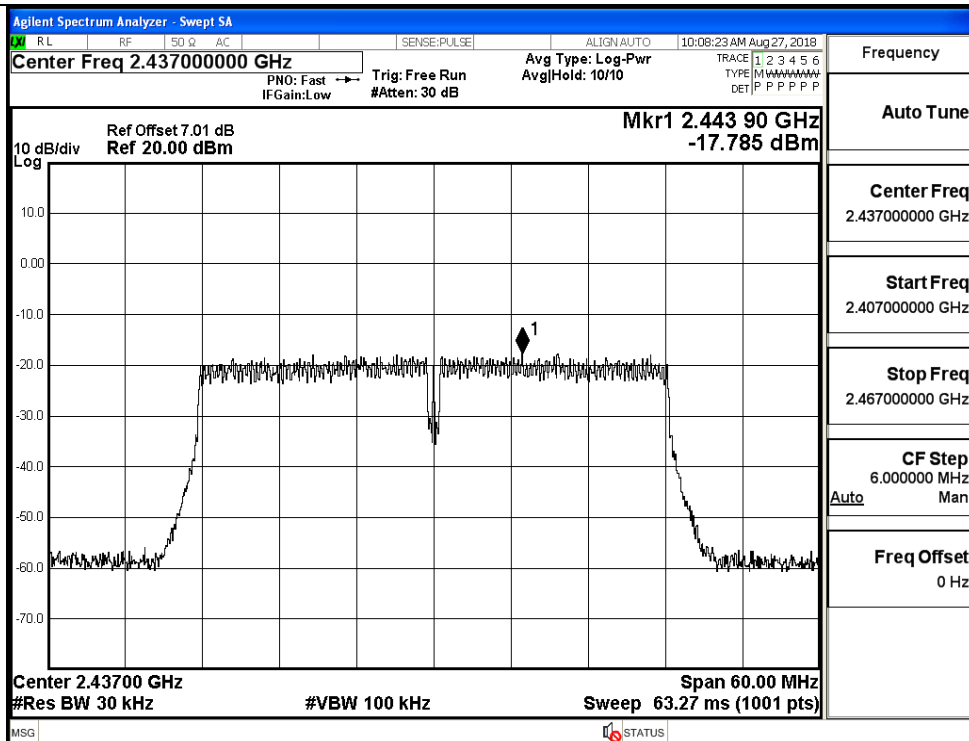
11N20SISO/HCH



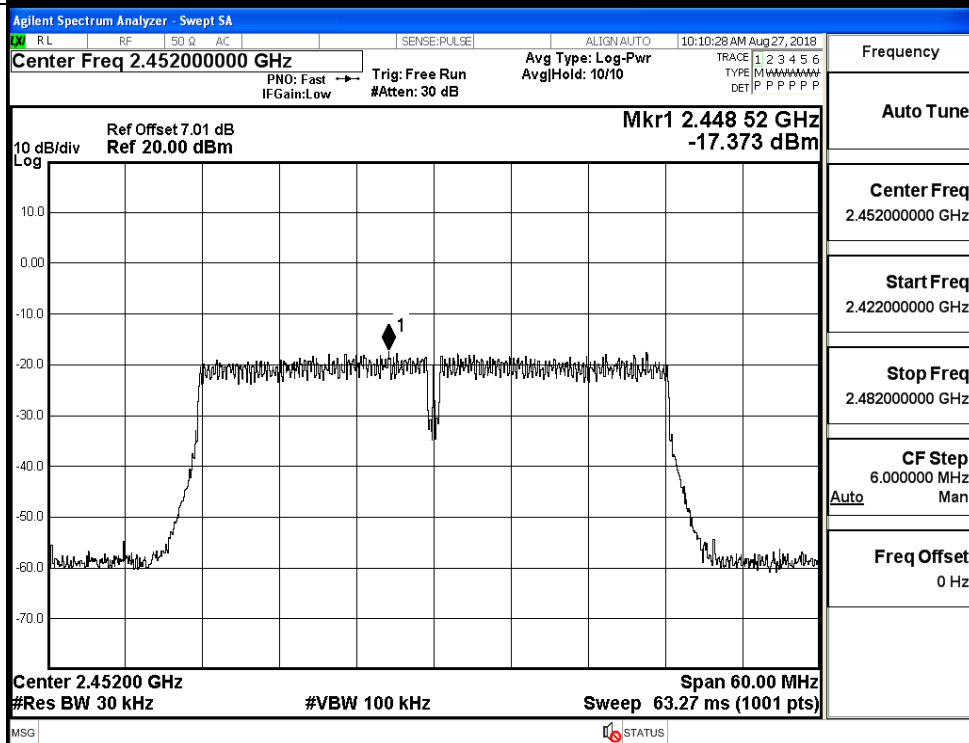
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



C.4 6dB Bandwidth

Antenna 0

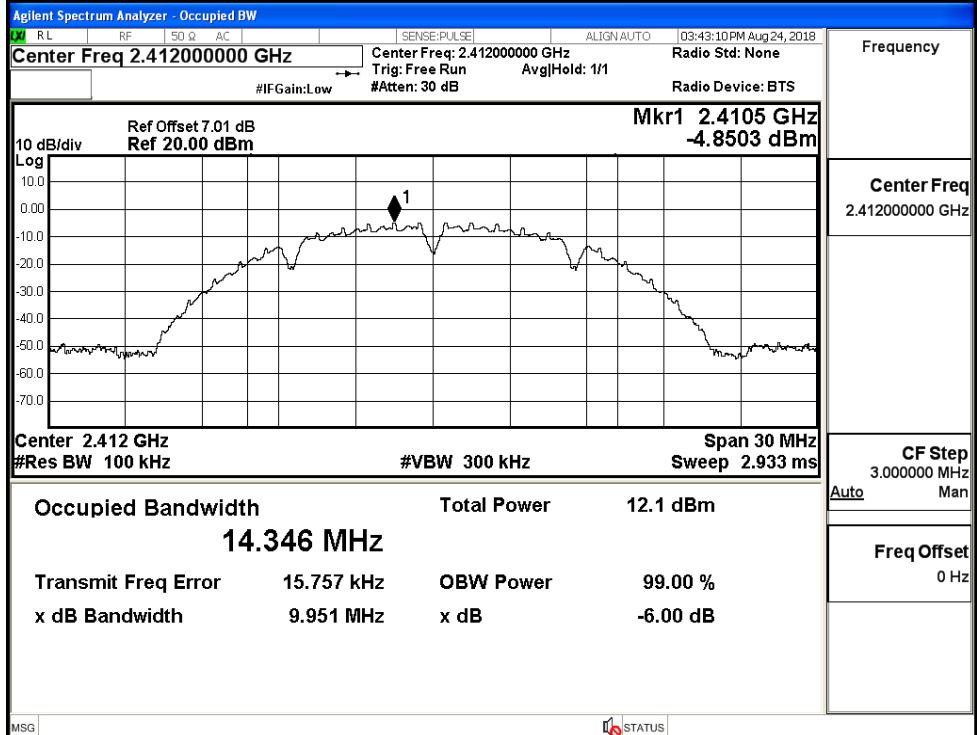
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.951	≥ 0.5	PASS
	MCH	9.990	≥ 0.5	PASS
	HCH	9.152	≥ 0.5	PASS
11G	LCH	16.61	≥ 0.5	PASS
	MCH	16.61	≥ 0.5	PASS
	HCH	16.60	≥ 0.5	PASS
11N20SISO	LCH	17.82	≥ 0.5	PASS
	MCH	17.82	≥ 0.5	PASS
	HCH	17.83	≥ 0.5	PASS
11N40SISO	LCH	36.48	≥ 0.5	PASS
	MCH	36.47	≥ 0.5	PASS
	HCH	36.47	≥ 0.5	PASS

Antenna 1

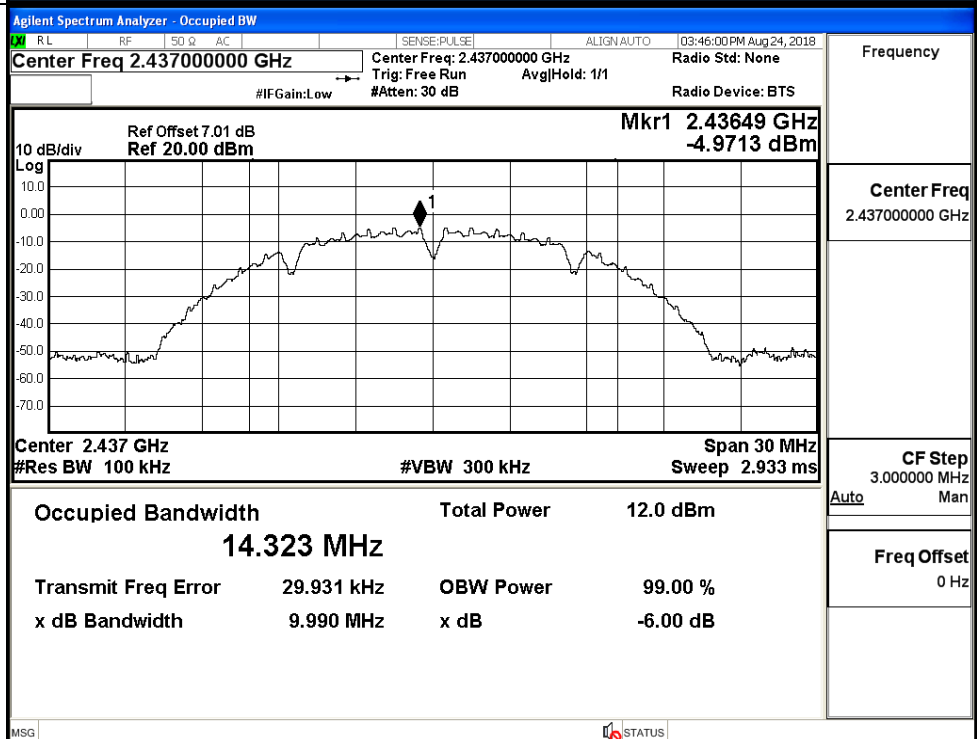
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.09	≥ 0.5	PASS
	MCH	9.986	≥ 0.5	PASS
	HCH	9.986	≥ 0.5	PASS
11G	LCH	16.61	≥ 0.5	PASS
	MCH	16.61	≥ 0.5	PASS
	HCH	16.62	≥ 0.5	PASS
11N20SISO	LCH	17.84	≥ 0.5	PASS
	MCH	17.82	≥ 0.5	PASS
	HCH	17.82	≥ 0.5	PASS
11N40SISO	LCH	36.50	≥ 0.5	PASS
	MCH	36.48	≥ 0.5	PASS
	HCH	36.50	≥ 0.5	PASS

Test Graphs_Ant 0

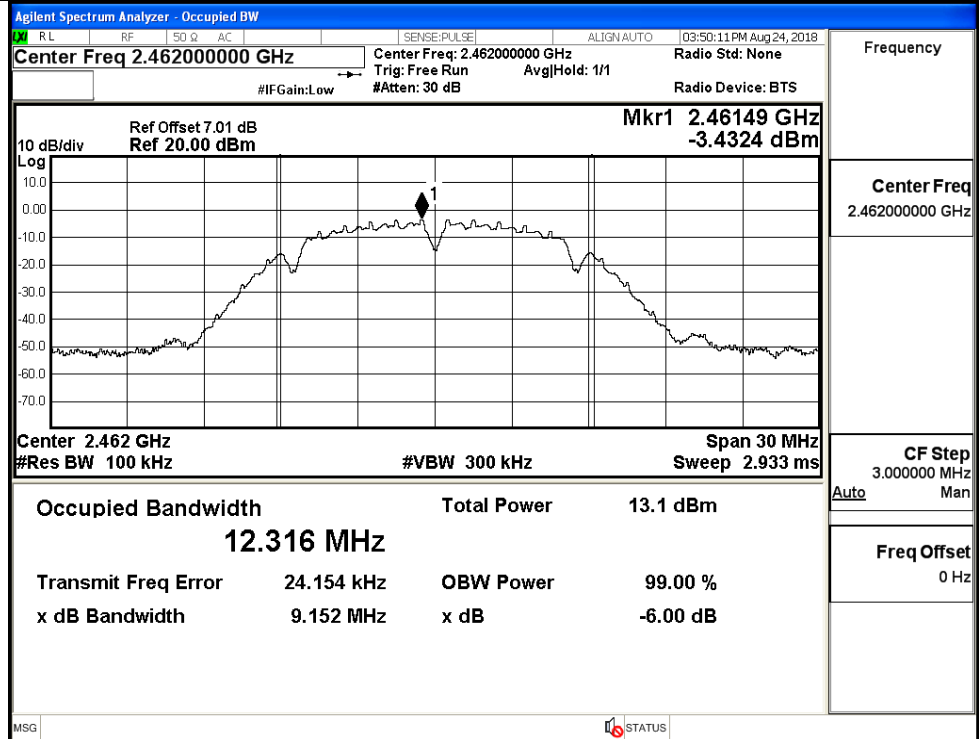
11B/LCH



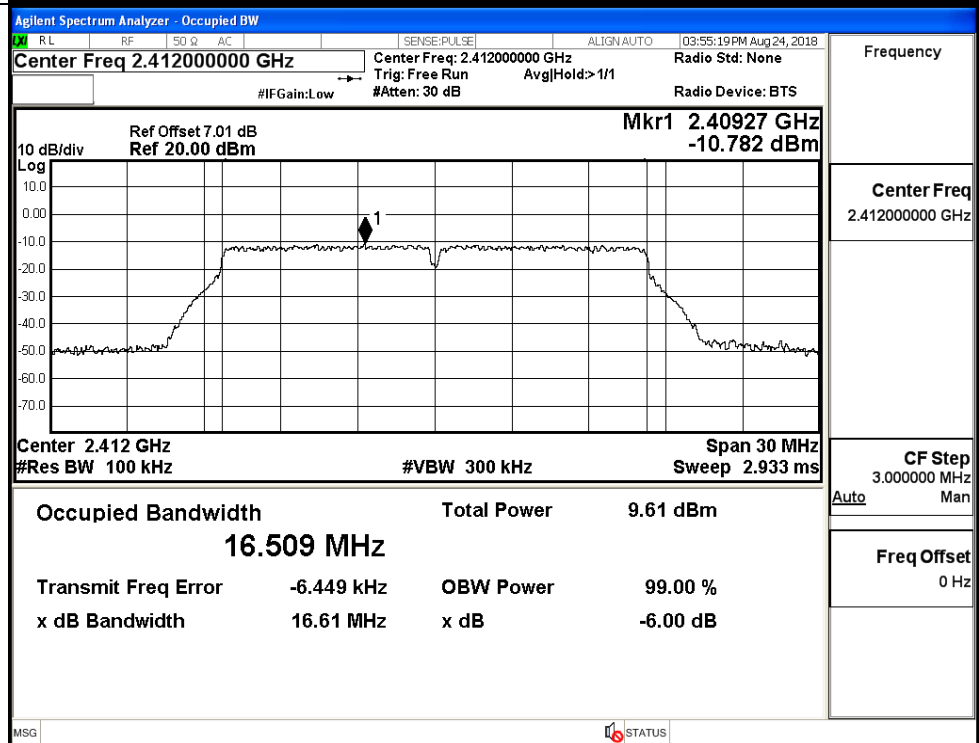
11B/MCH



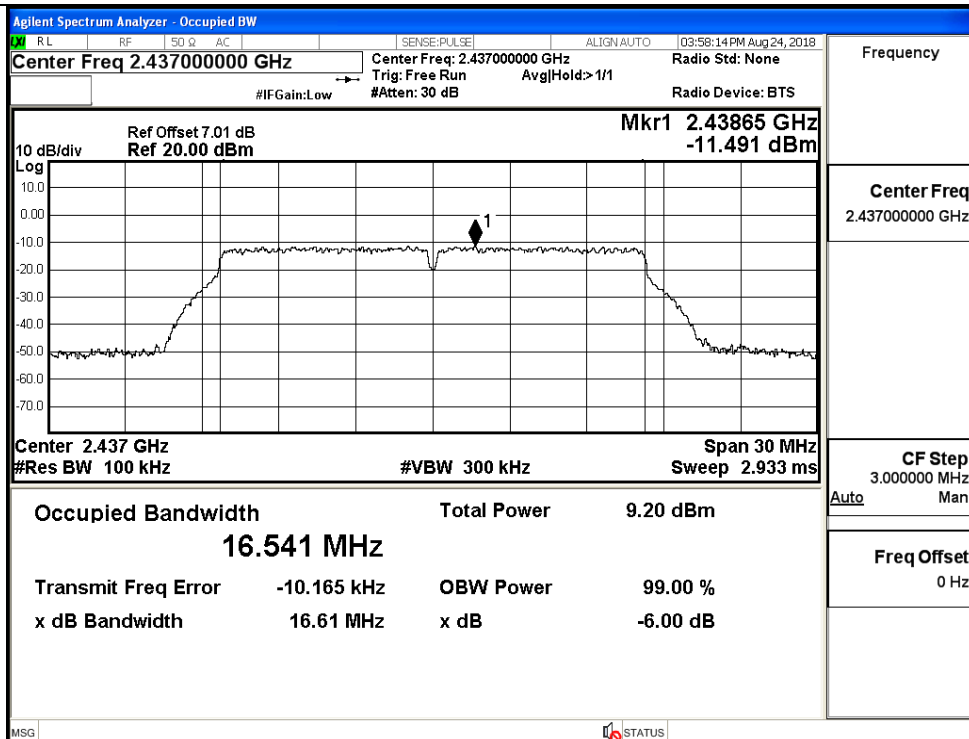
11B/HCH



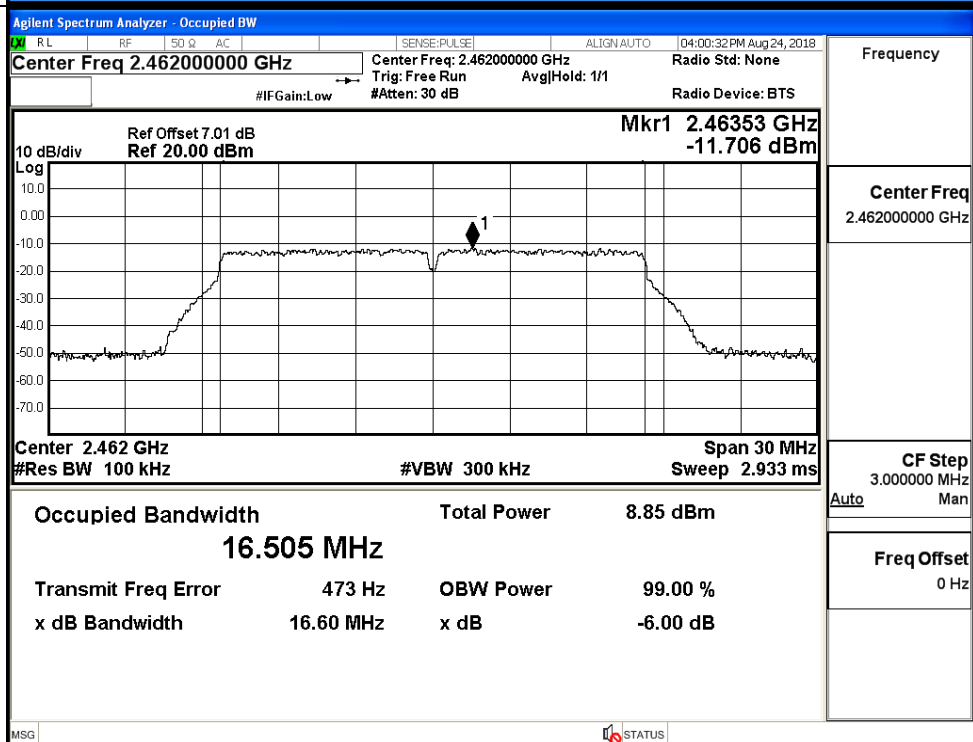
11G/LCH



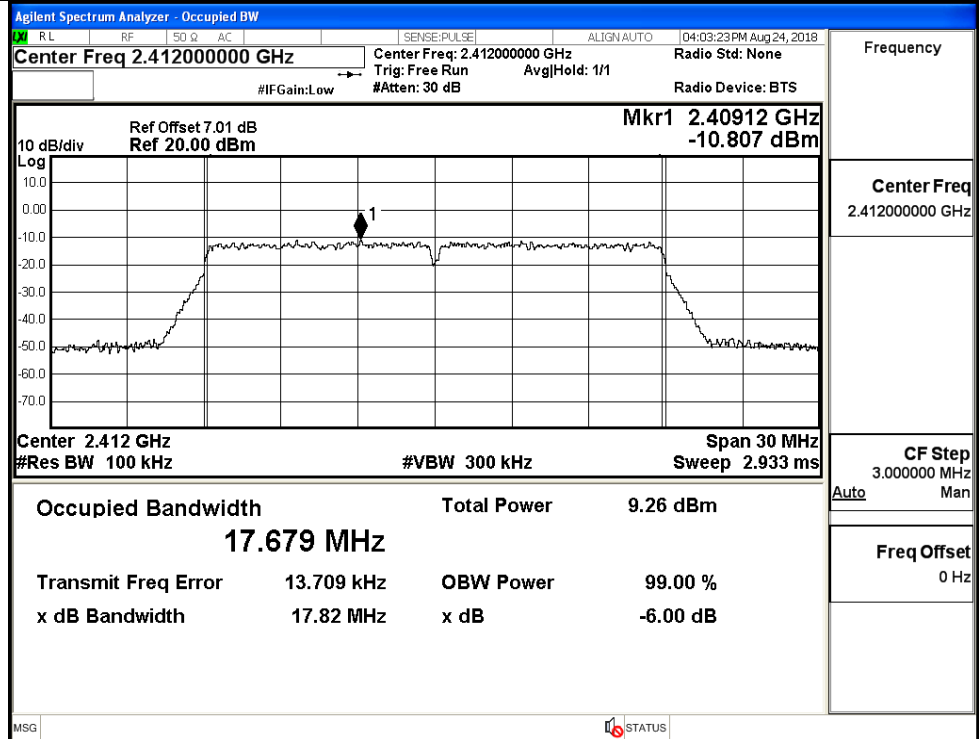
11G/MCH



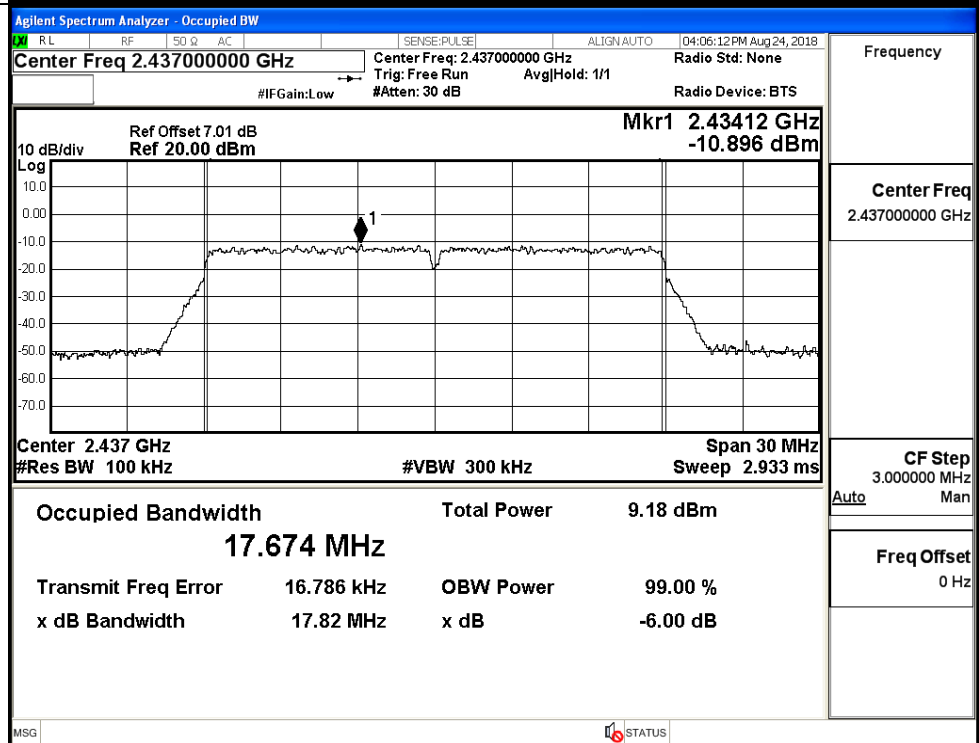
11G/HCH



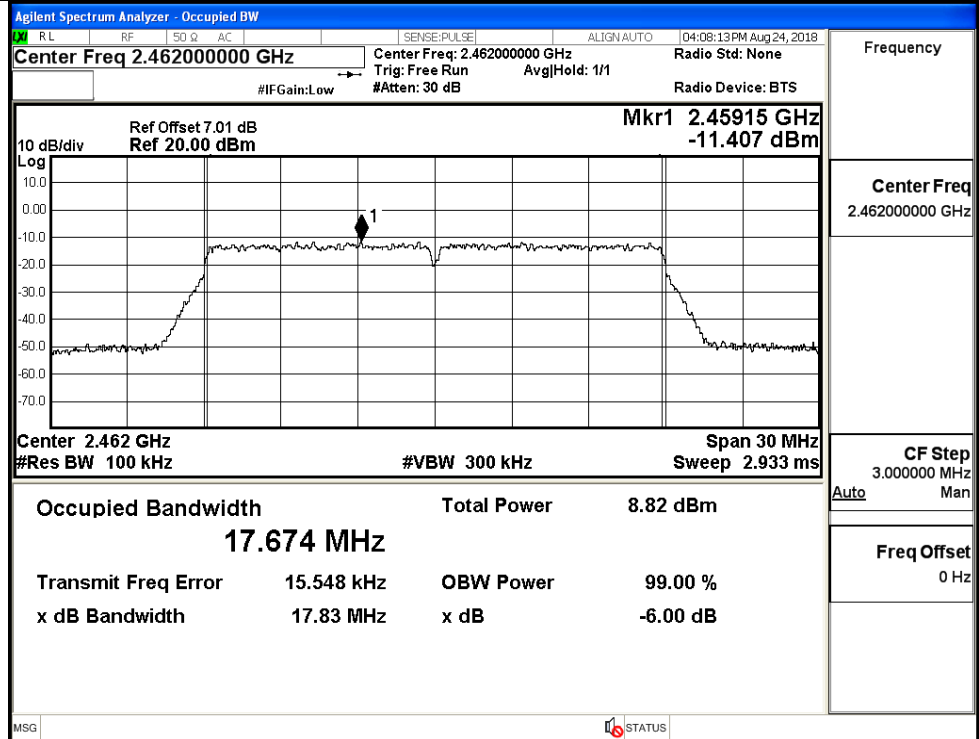
11N20SISO/LCH



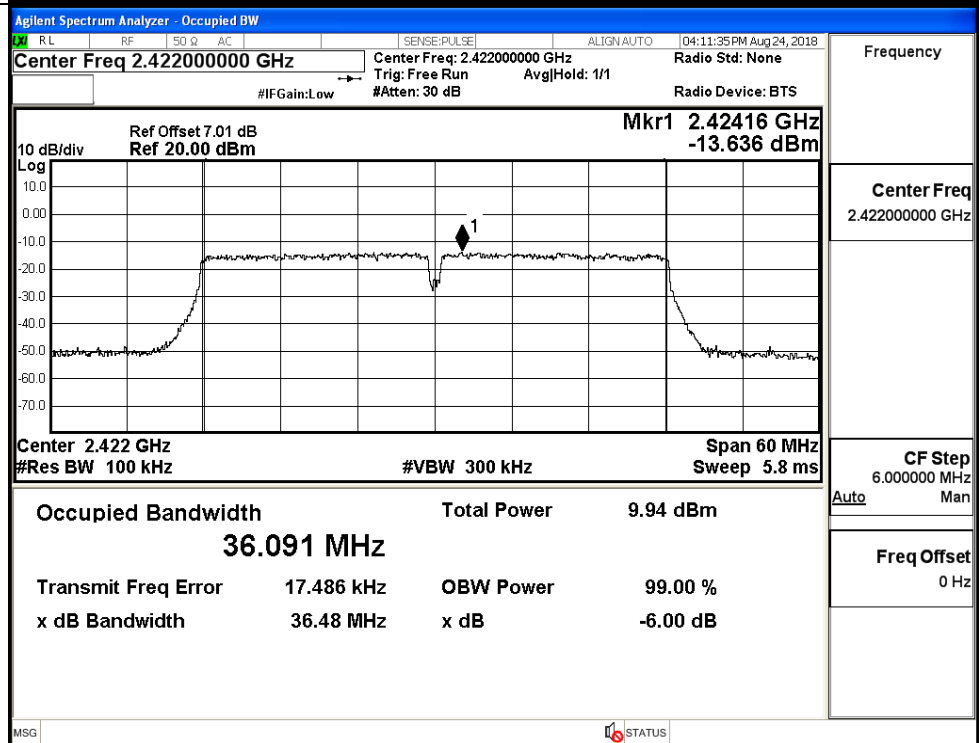
11N20SISO/MCH



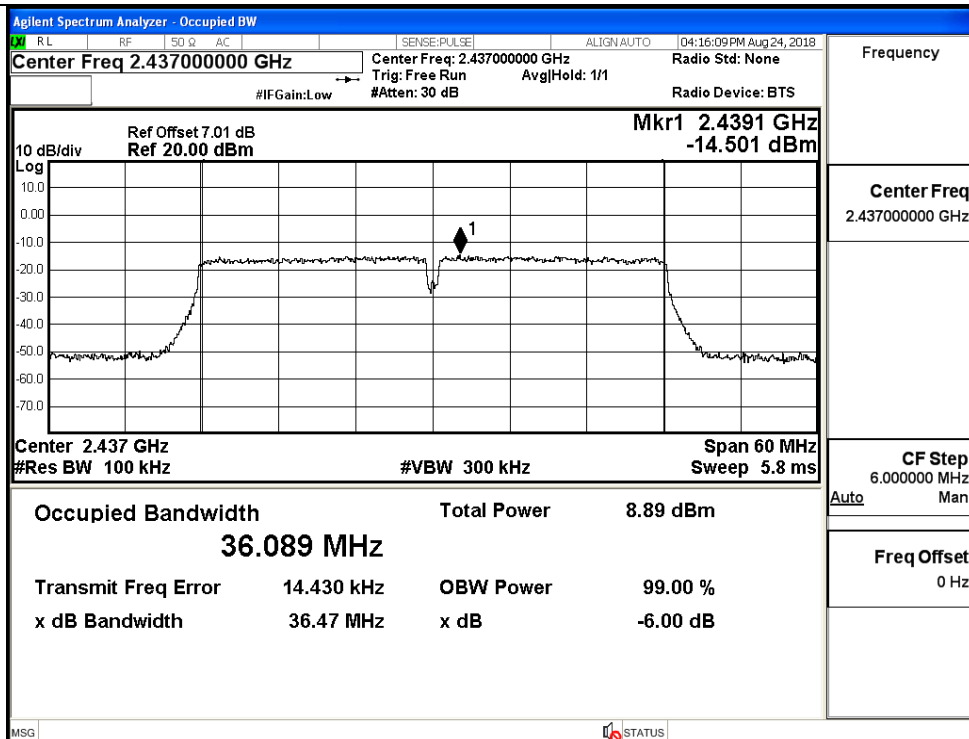
11N20SISO/HCH



11N40SISO/LCH



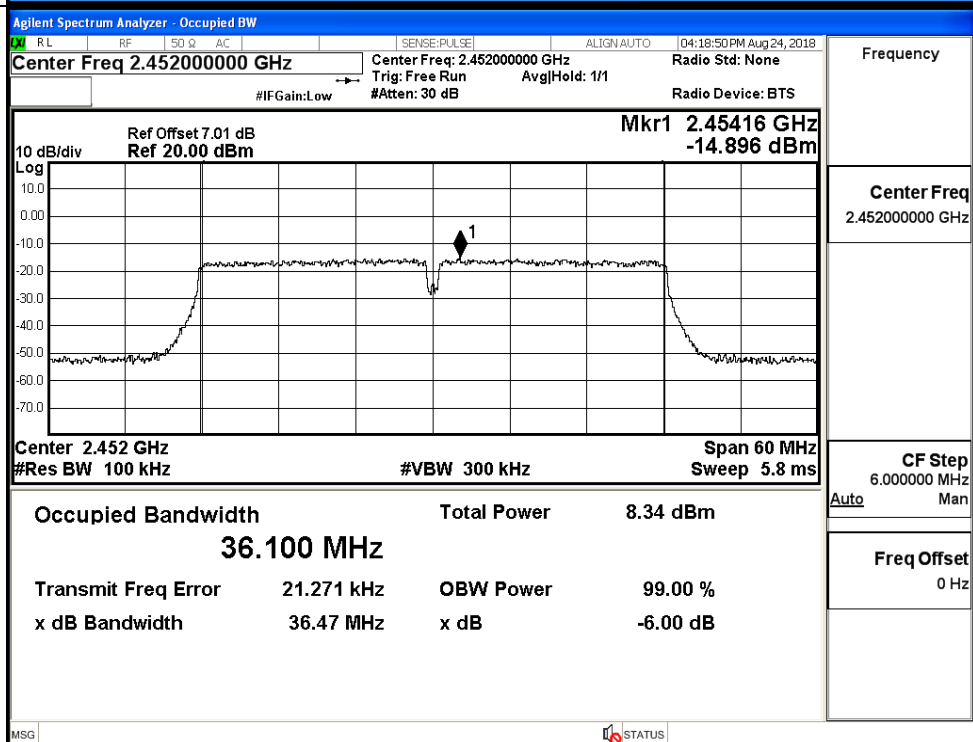
11N40SISO/MCH



Frequency

Center Freq
2.437000000 GHzCF Step
6.000000 MHz
Auto ManFreq Offset
0 Hz

11N40SISO/HCH

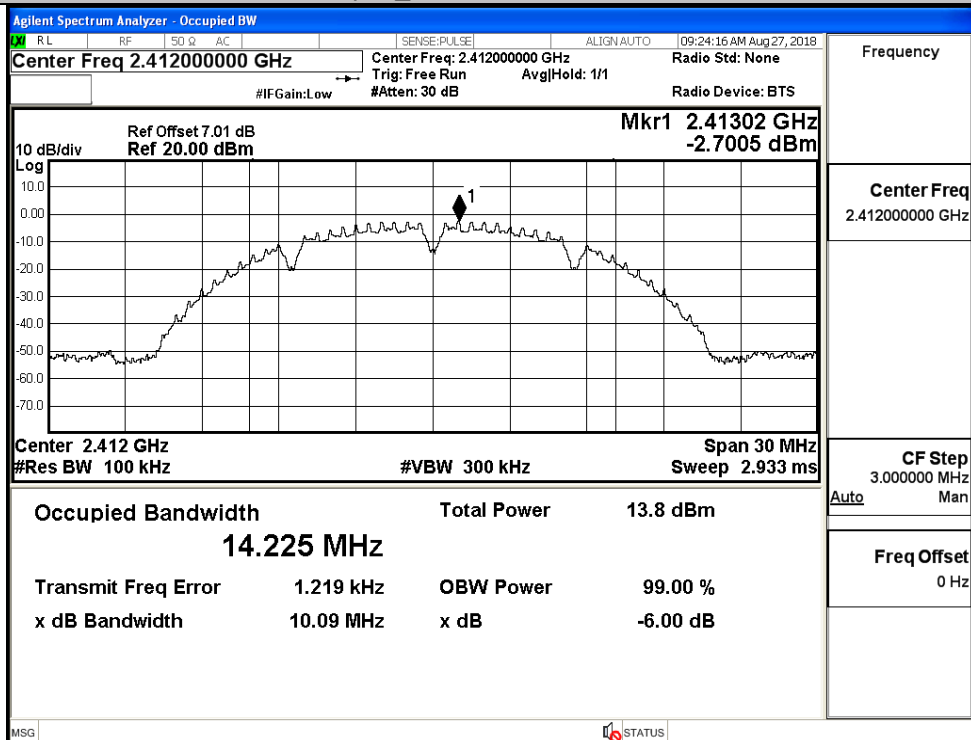


Frequency

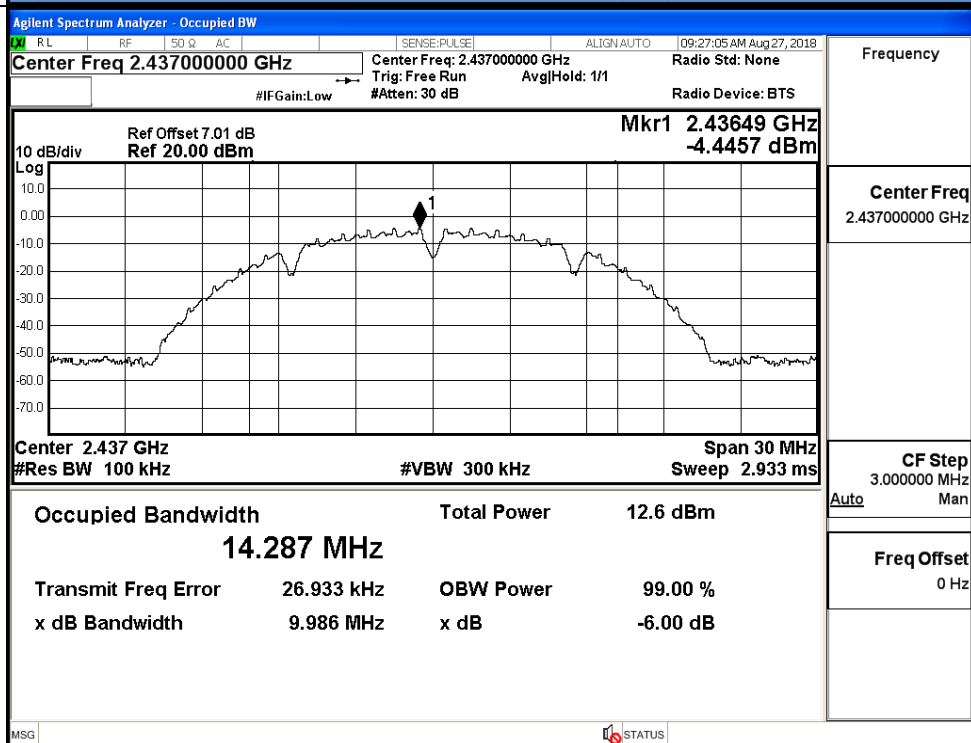
Center Freq
2.452000000 GHzCF Step
6.000000 MHz
Auto ManFreq Offset
0 Hz

Test Graphs_Ant 1

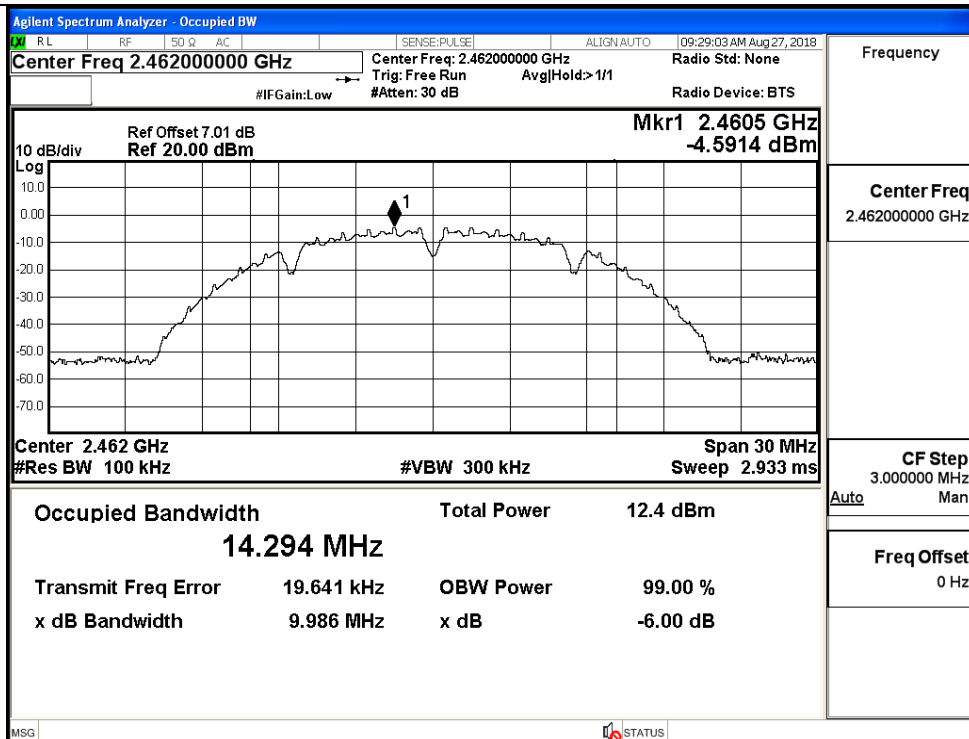
11B/LCH



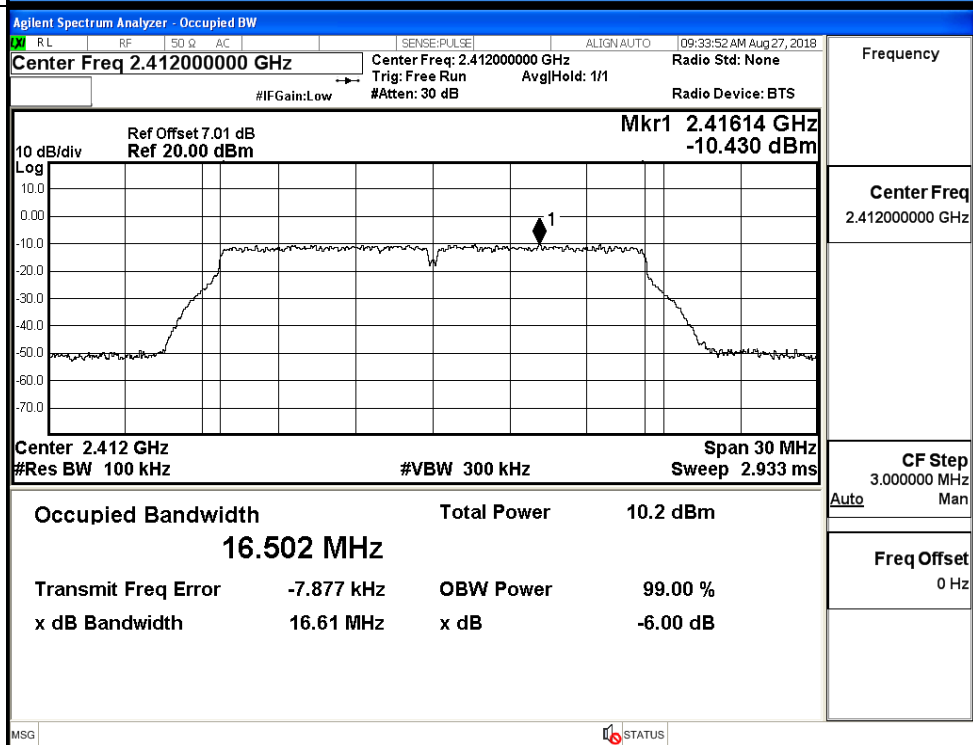
11B/MCH



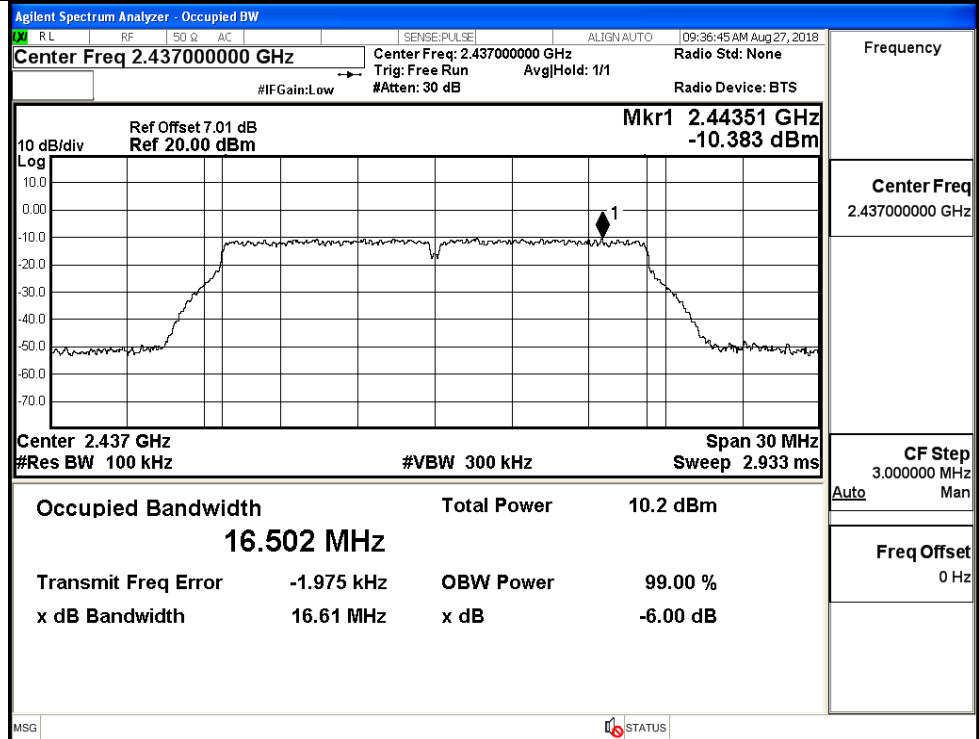
11B/HCH



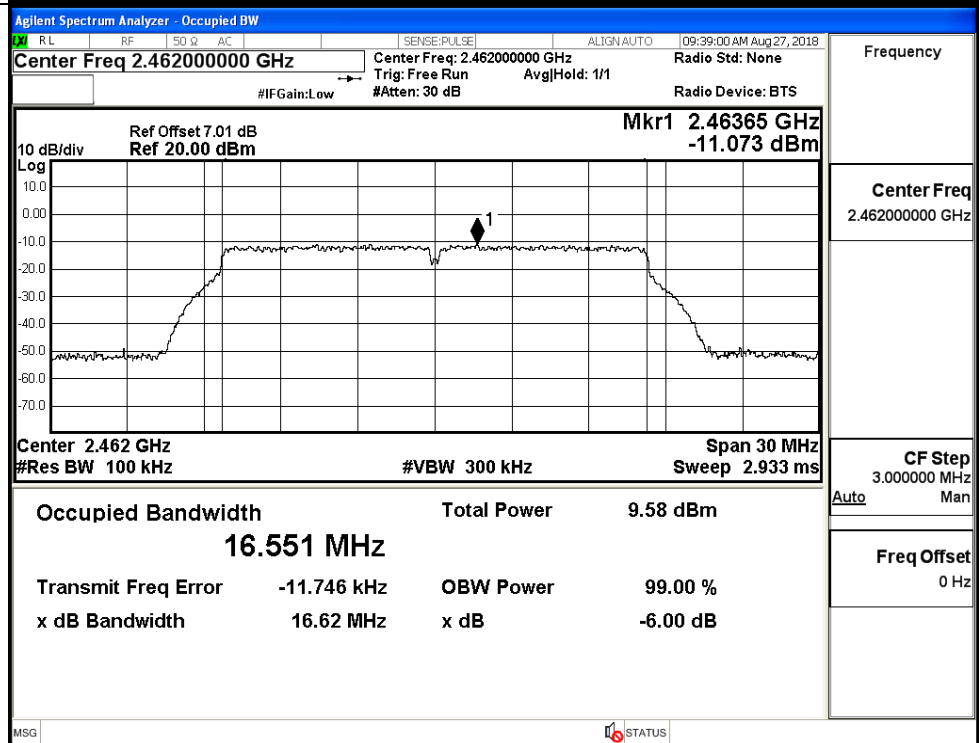
11G/LCH



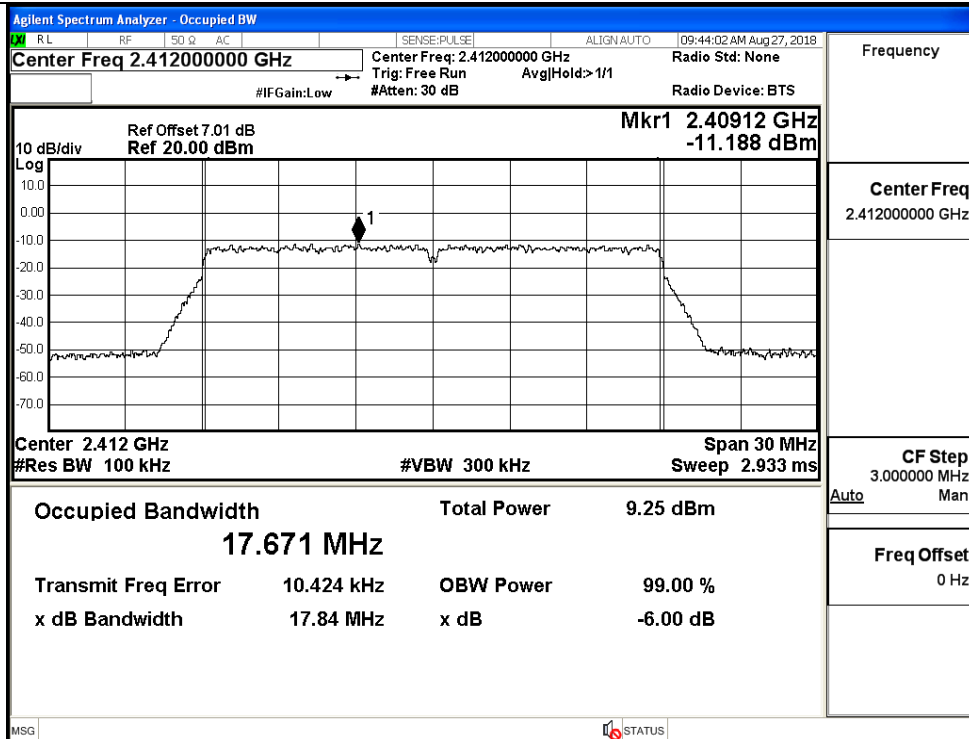
11G/MCH



11G/HCH



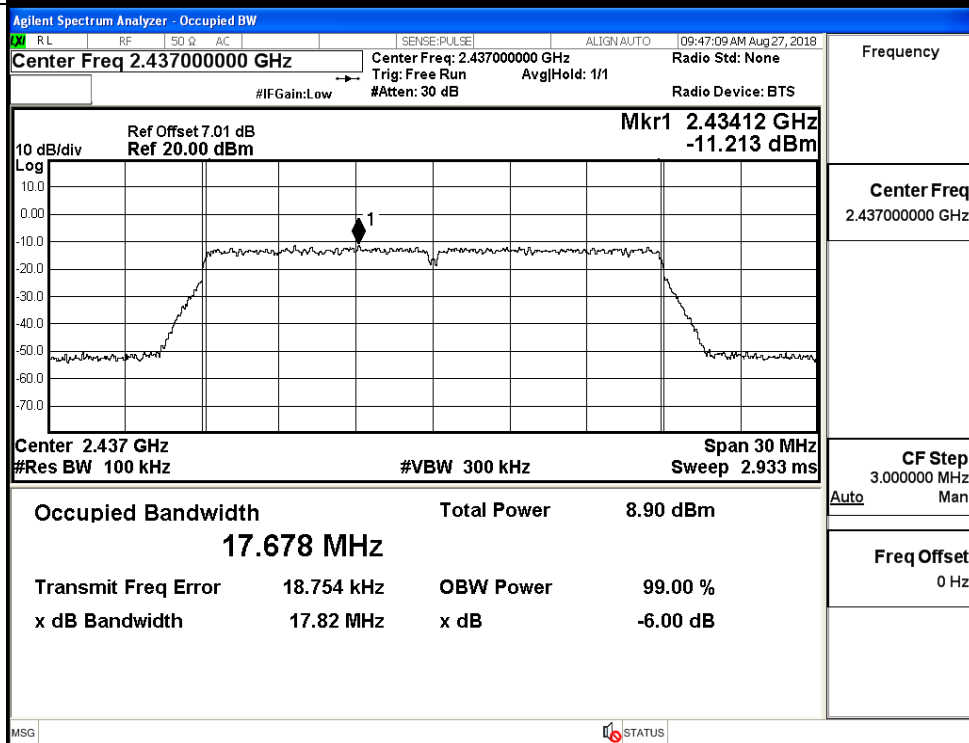
11N20SISO/LCH



Frequency

Center Freq
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3.000000 MHz
Auto ManFreq Offset
0 Hz

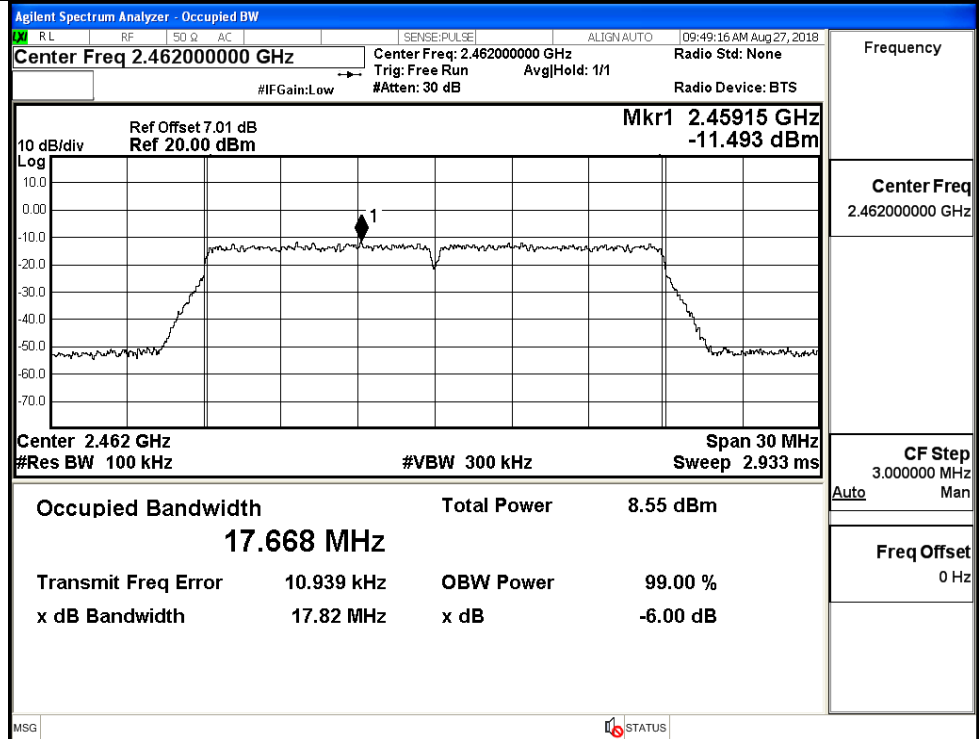
11N20SISO/MCH



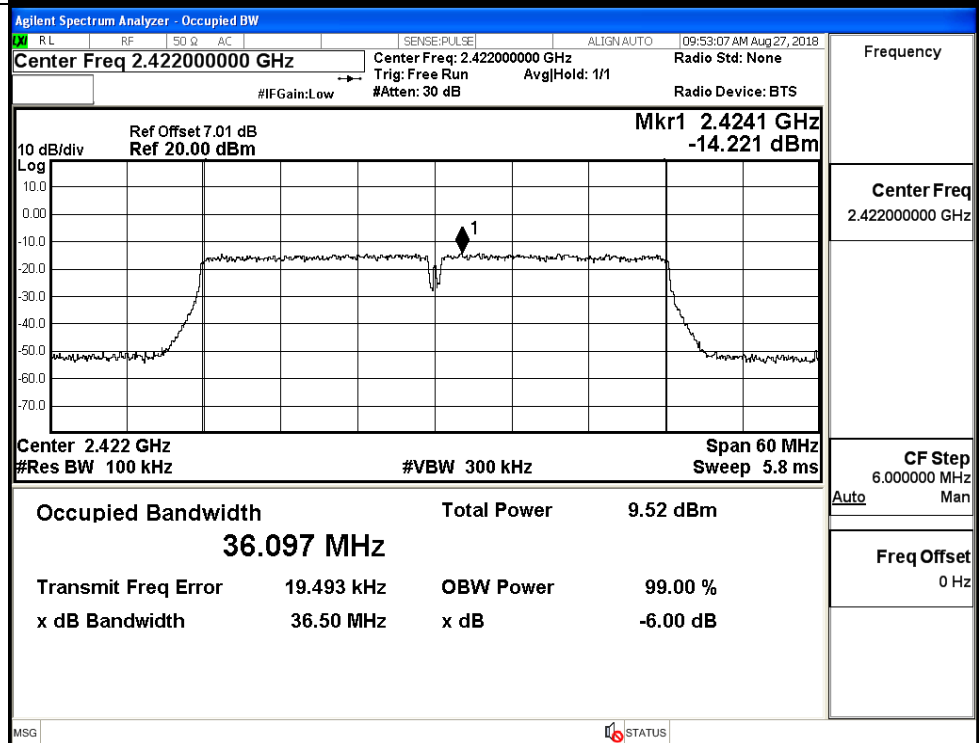
Frequency

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

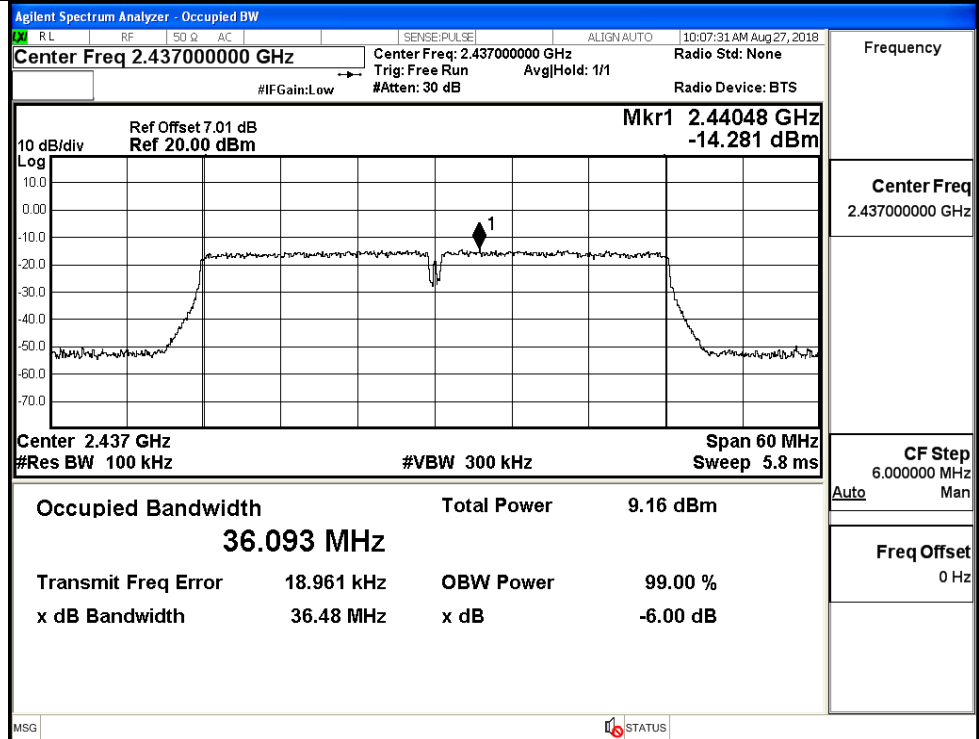
11N20SISO/HCH



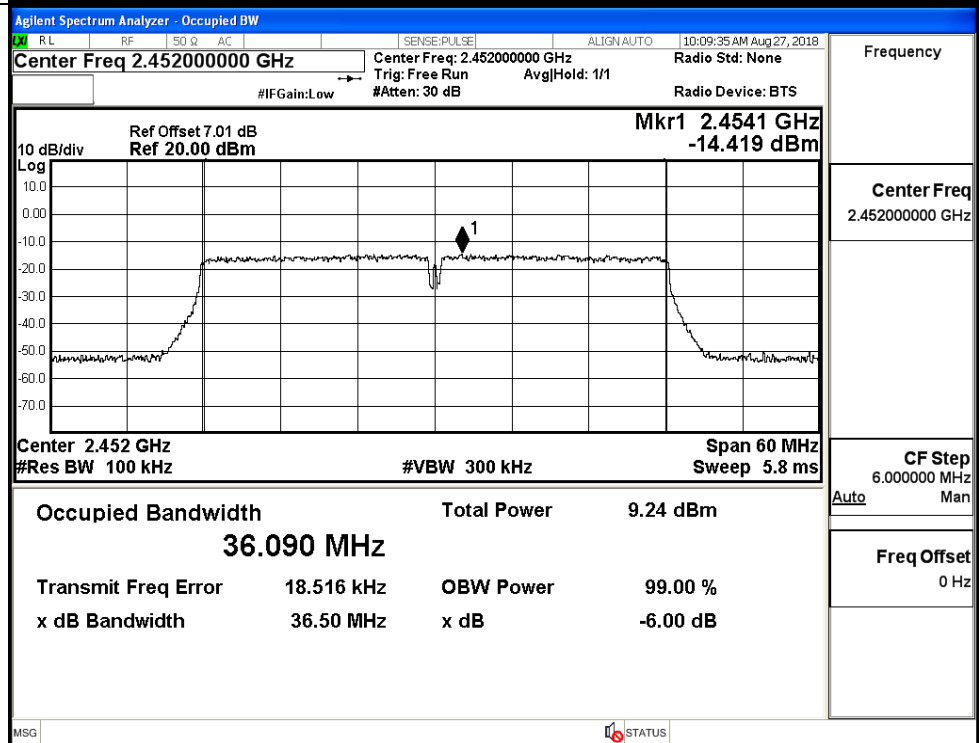
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



C.5 RF Conducted Spurious Emissions

Antenna 0

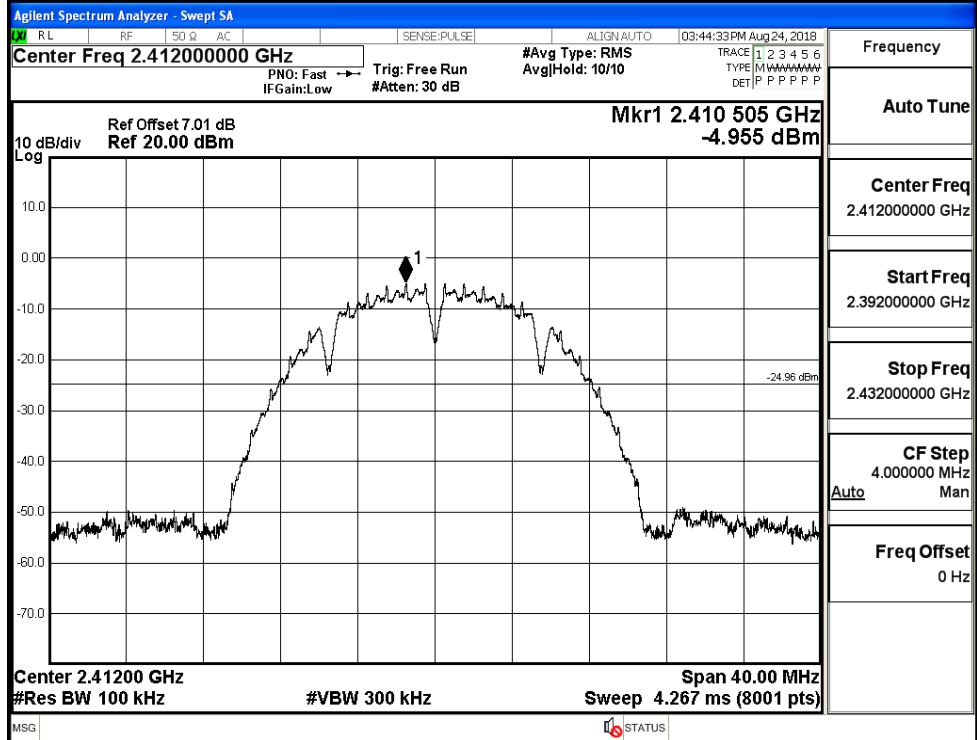
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-4.955	-44.308	-24.955	PASS
	MCH	-5.009	-43.086	-25.009	PASS
	HCH	-3.495	-44.980	-23.495	PASS
11G	LCH	-10.902	-44.130	-30.902	PASS
	MCH	-11.557	-45.248	-31.557	PASS
	HCH	-11.835	-45.084	-31.835	PASS
11N20 SISO	LCH	-11.111	-44.928	-31.111	PASS
	MCH	-11.018	-44.802	-31.018	PASS
	HCH	-11.6	-45.284	-31.600	PASS
11N40 SISO	LCH	-13.973	-43.932	-33.973	PASS
	MCH	-14.986	-44.810	-34.986	PASS
	HCH	-15.659	-44.236	-35.659	PASS

Antenna 1

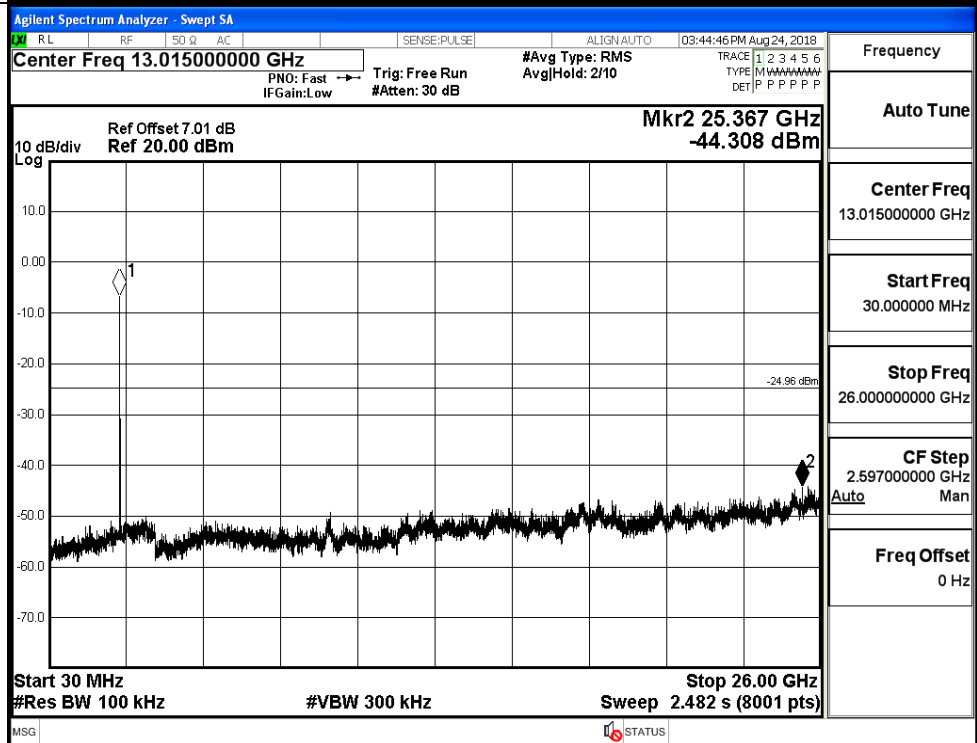
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.101	-46.068	-23.101	PASS
	MCH	-4.538	-44.294	-24.538	PASS
	HCH	-4.655	-45.458	-24.655	PASS
11G	LCH	-10.477	-44.516	-30.477	PASS
	MCH	-10.458	-45.032	-30.458	PASS
	HCH	-11.178	-45.129	-31.178	PASS
11N20 SISO	LCH	-11.391	-44.873	-31.391	PASS
	MCH	-8.353	-45.730	-34.300	PASS
	HCH	-11.438	-44.525	-31.438	PASS
11N40 SISO	LCH	-14.154	-45.494	-34.154	PASS
	MCH	-14.910	-44.666	-34.910	PASS
	HCH	-14.635	-44.551	-34.635	PASS

11B_LCH Graphs Ant 0

Pref/11B/LCH

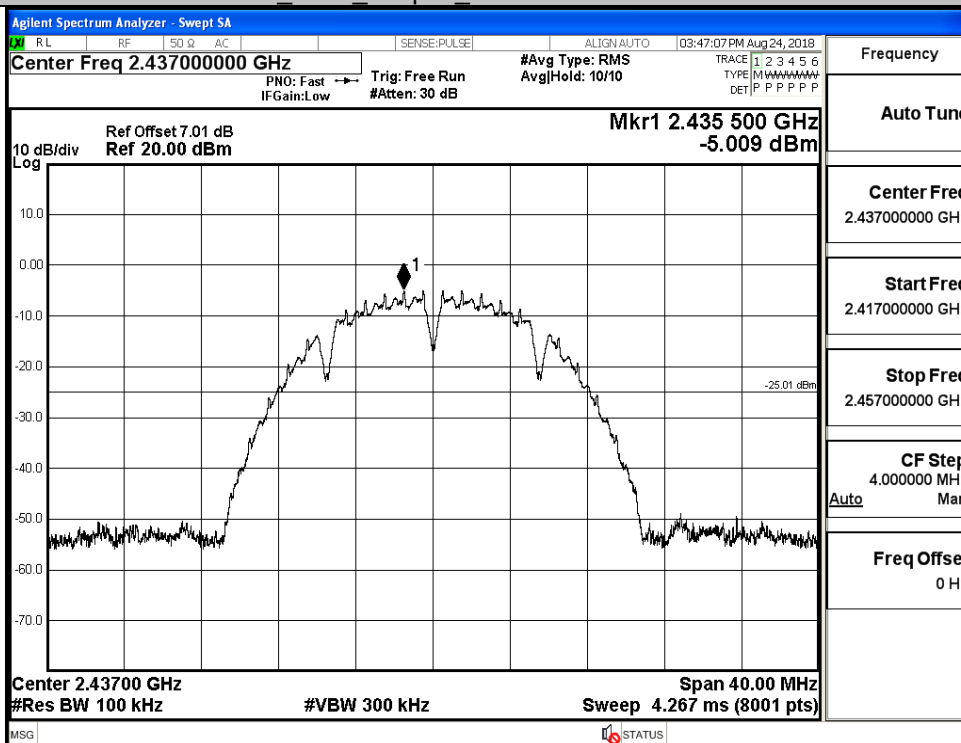


Puw/11B/LCH

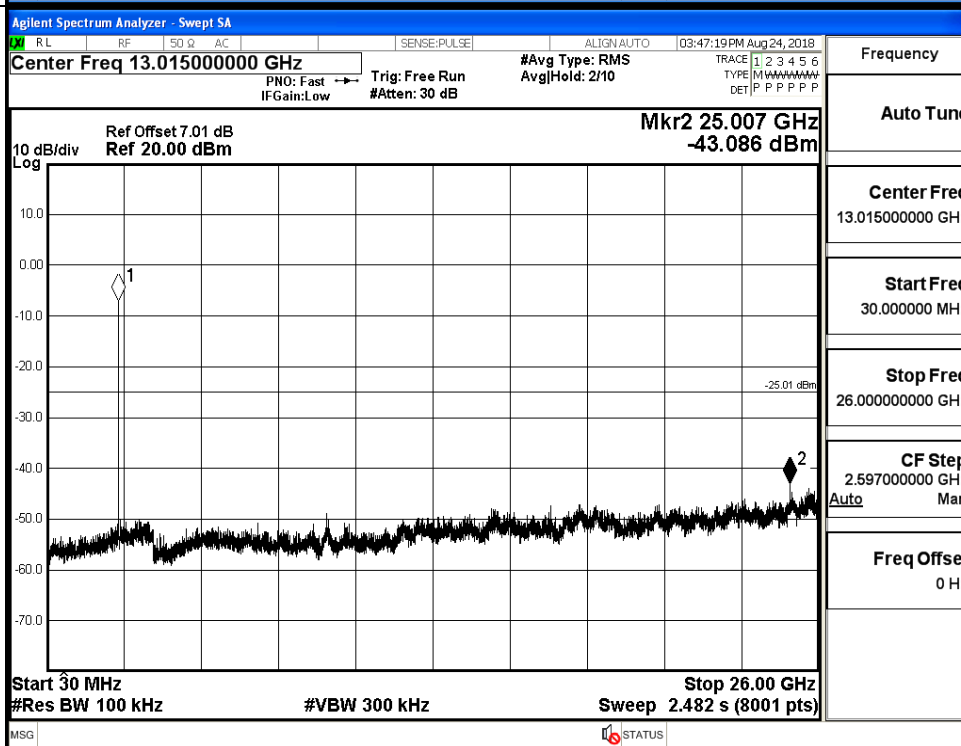


11B MCH Graphs Ant 0

Pref/11B/MCH

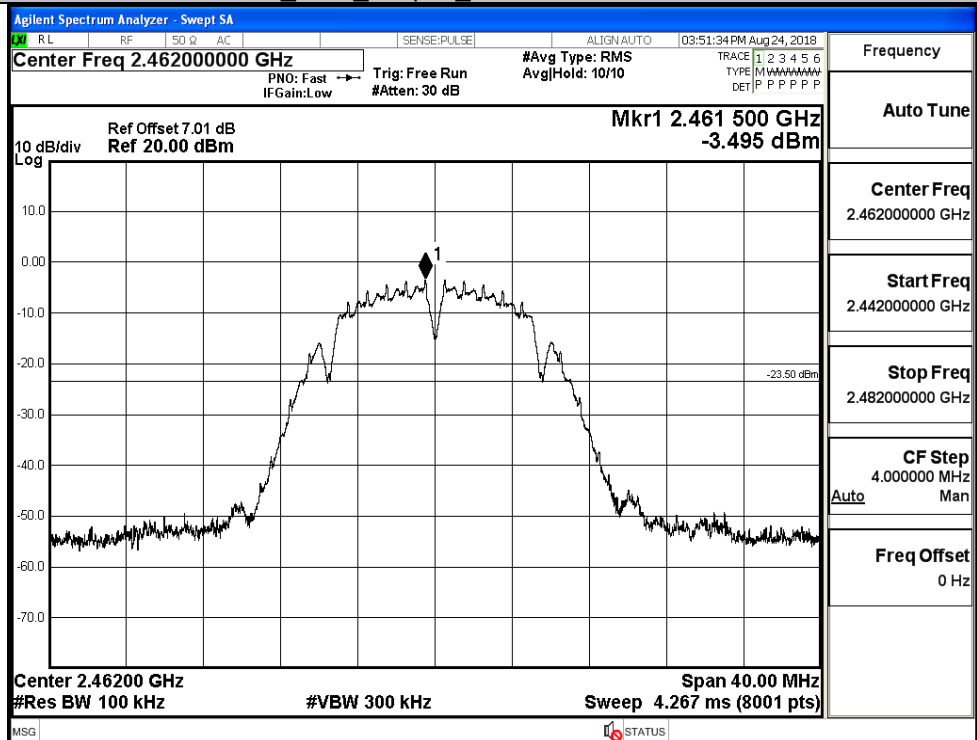


Puw/11B/MCH

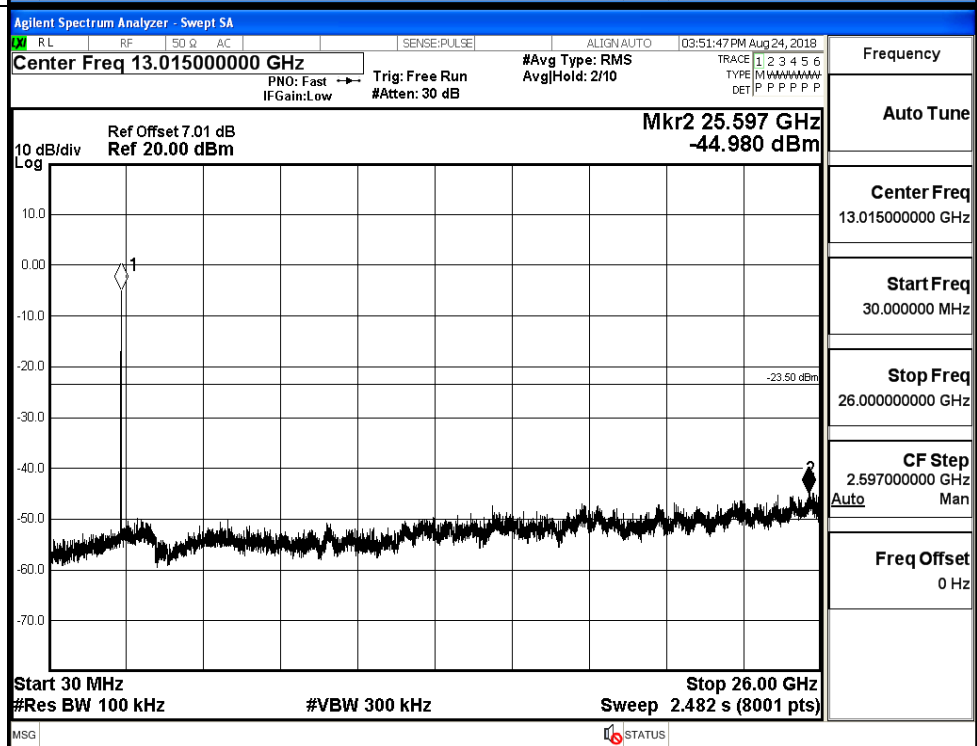


11B_HCH Graphs_Ant 0

Pref/11B/HCH

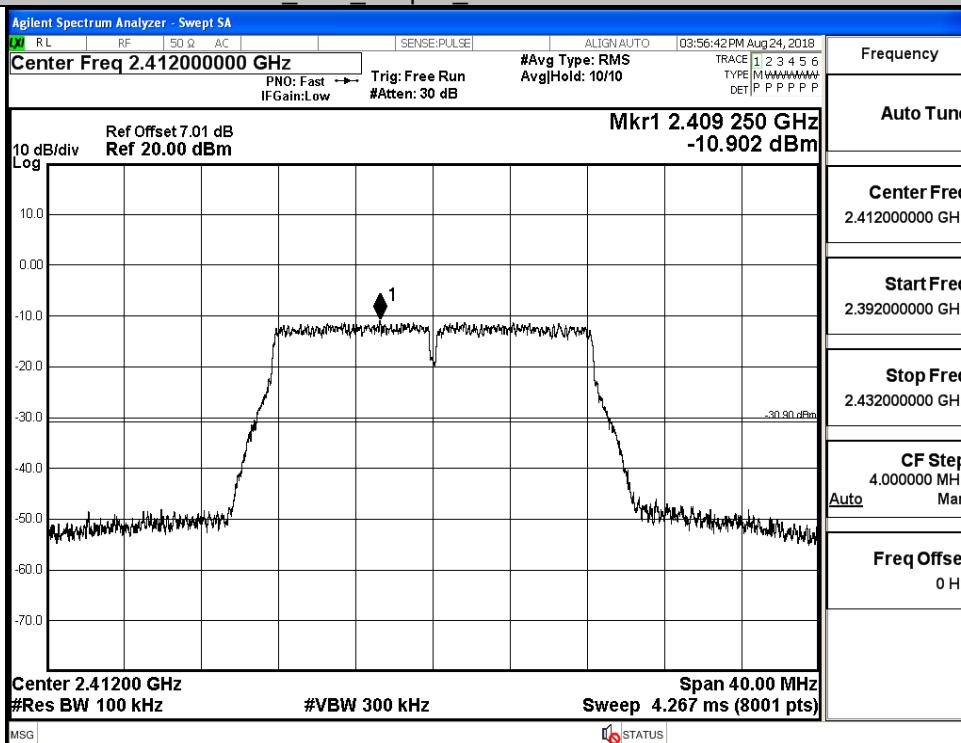


Puw/11B/HCH

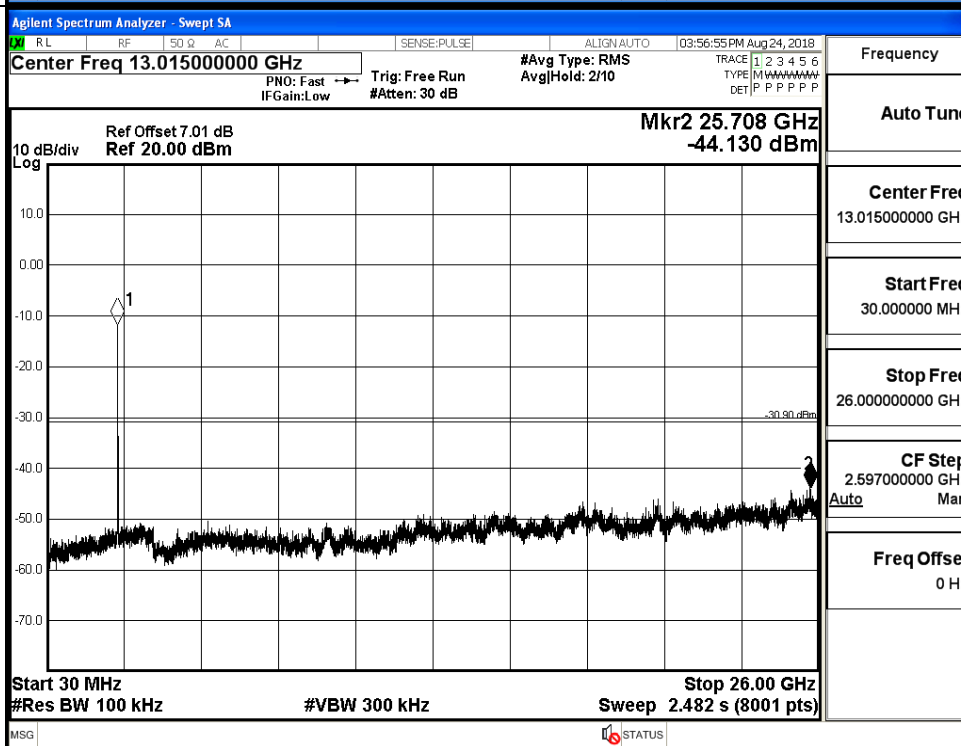


11G LCH Graphs Ant 0

Pref/11G/LCH

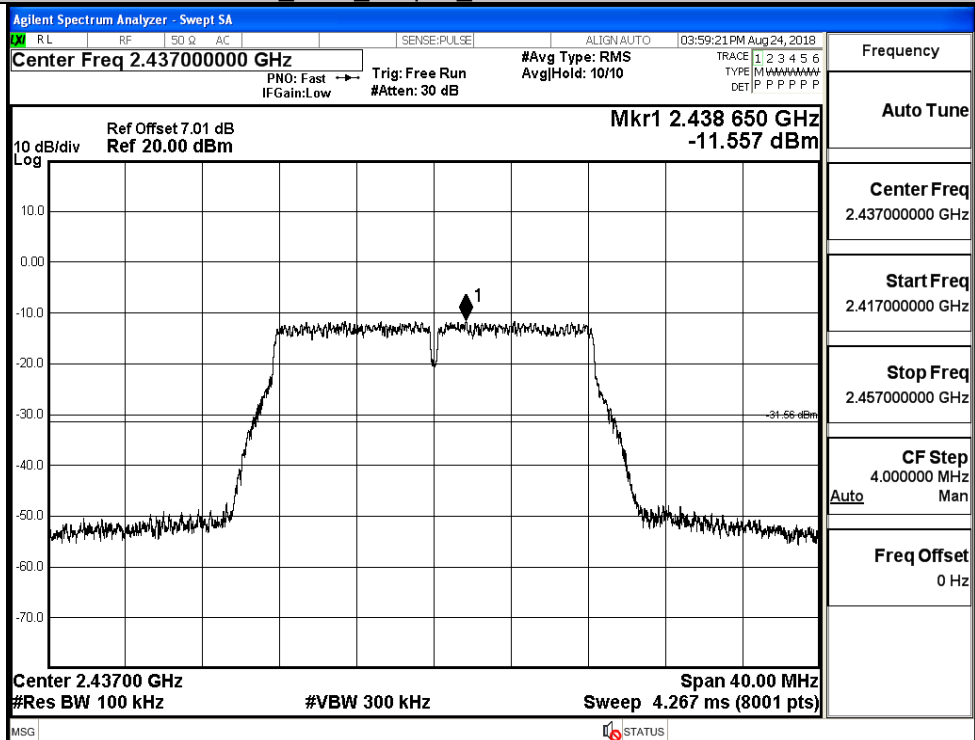


Puw/11G/LCH

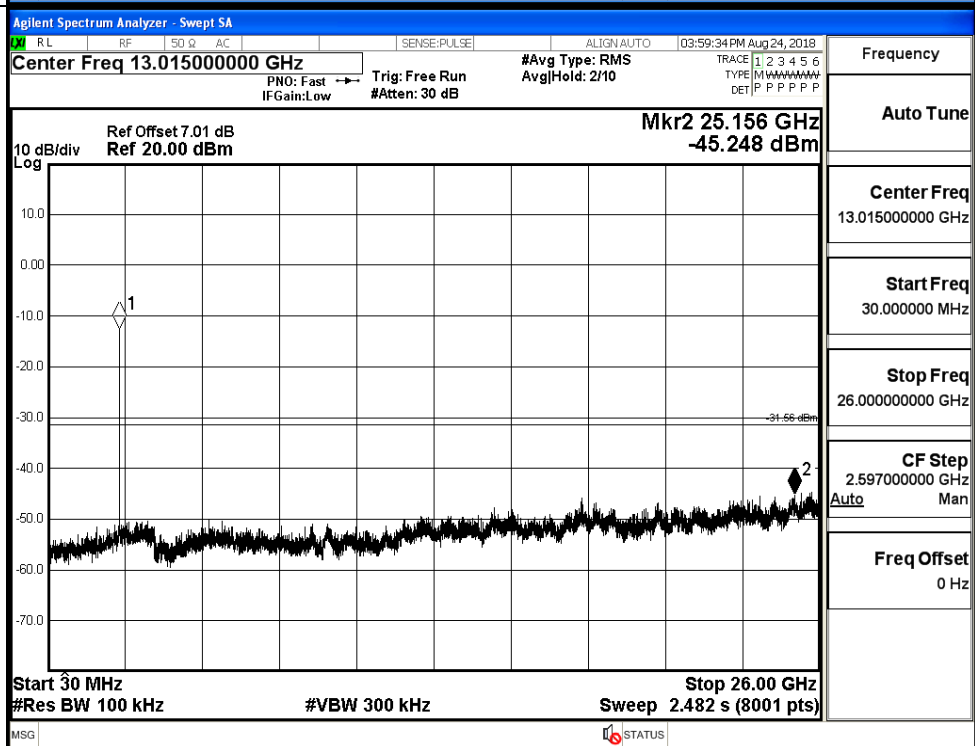


11G_MCH_Graphs_Ant 0

Pref/11G/MCH

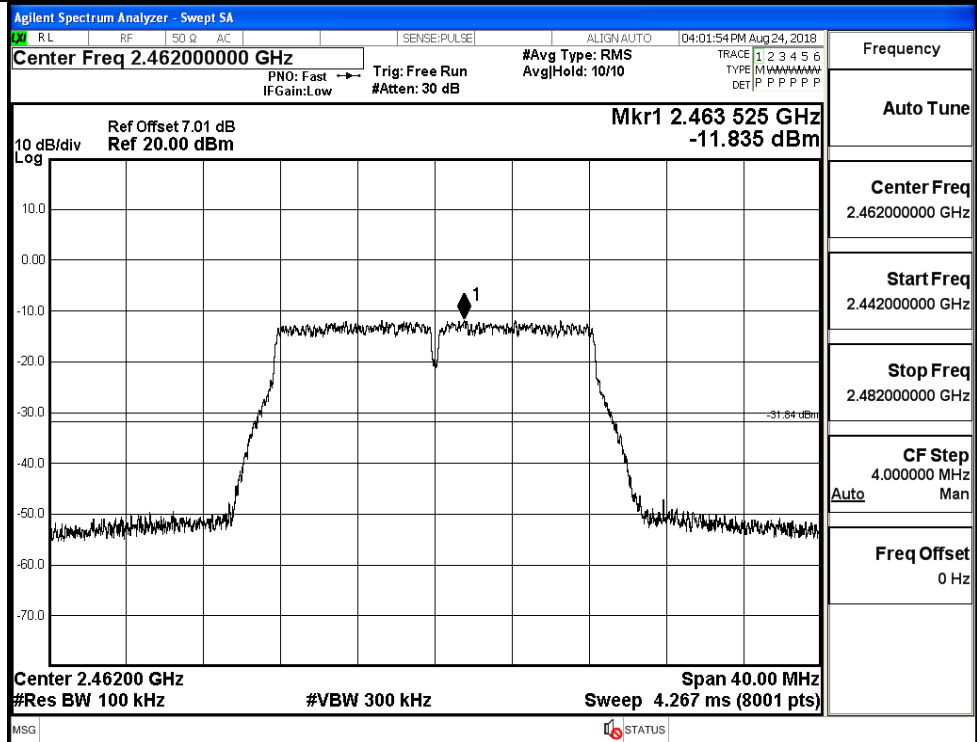


Puw/11G/MCH

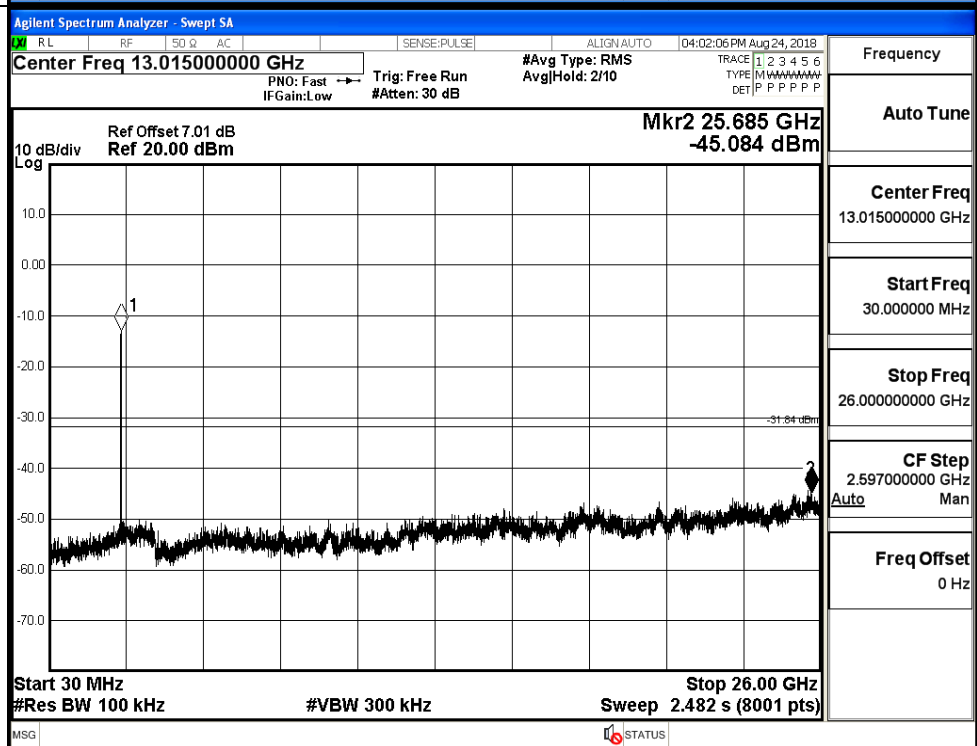


11G HCH Graphs Ant 0

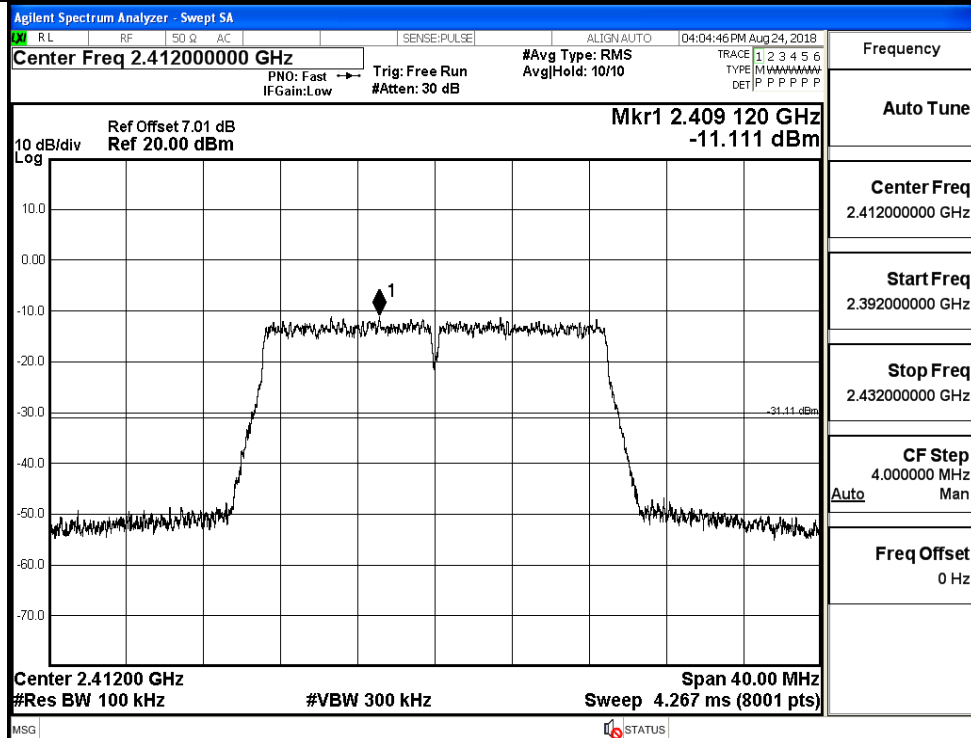
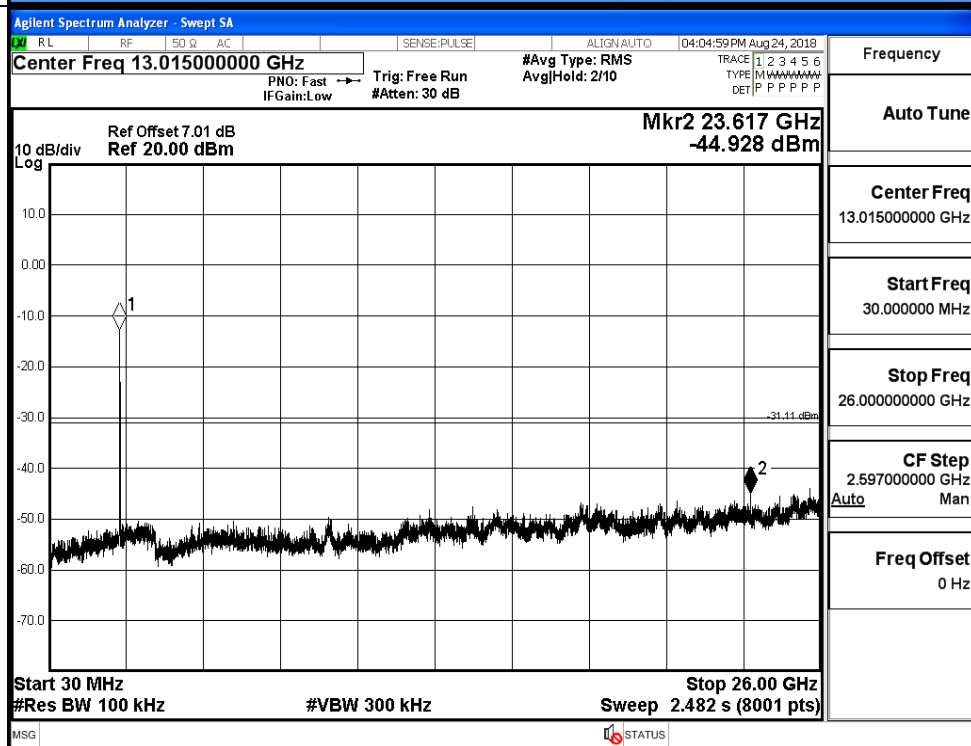
Pref/11G/HCH



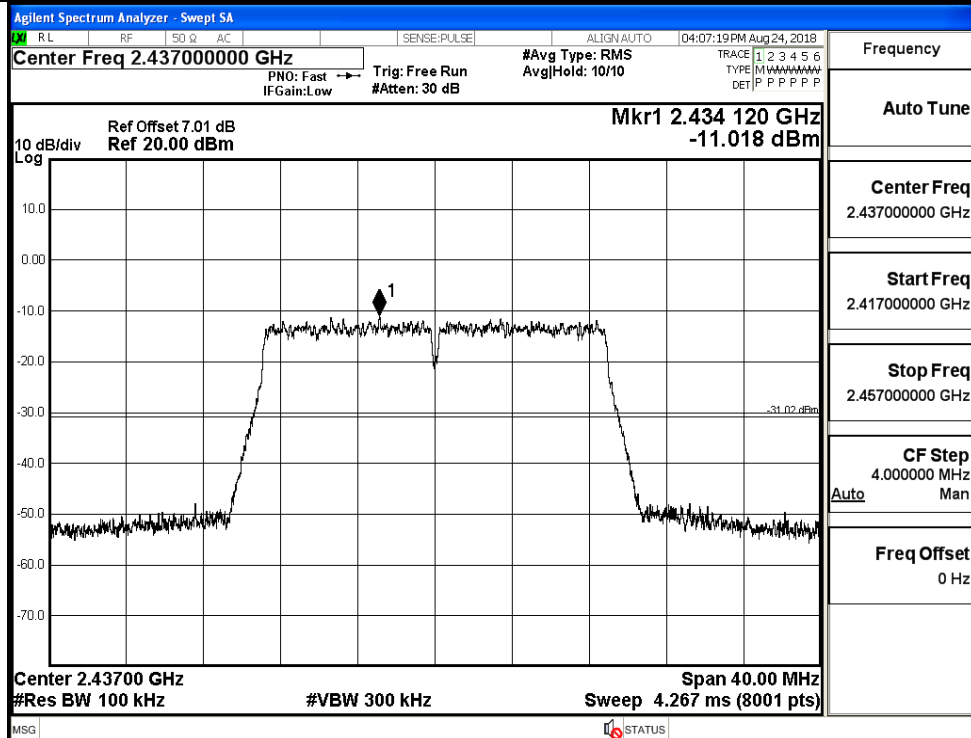
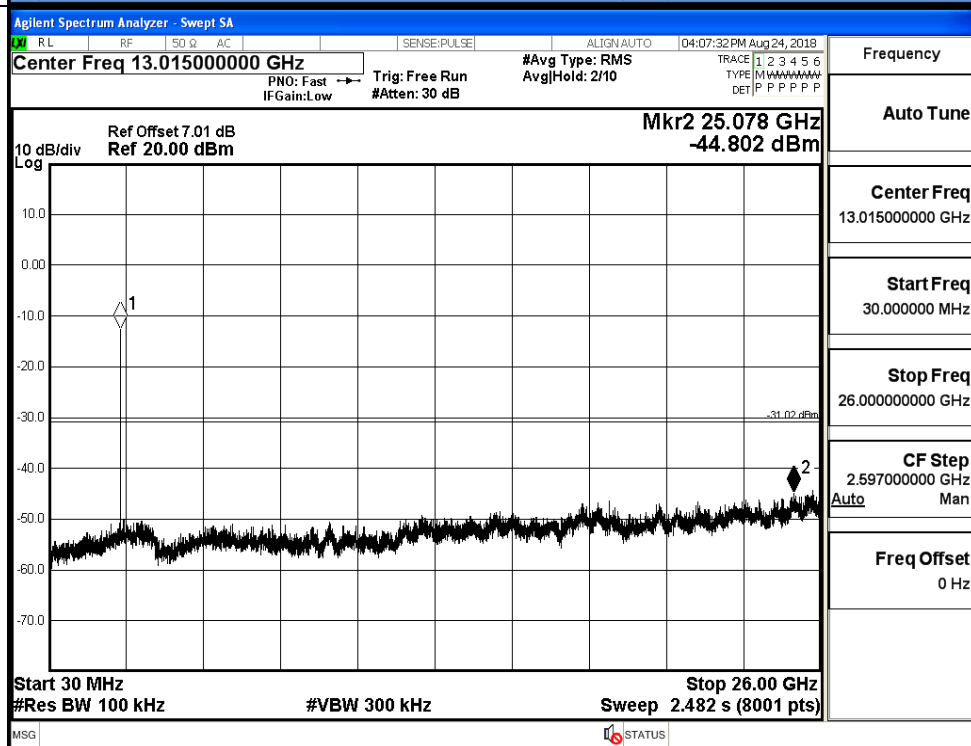
Puw/11G/HCH



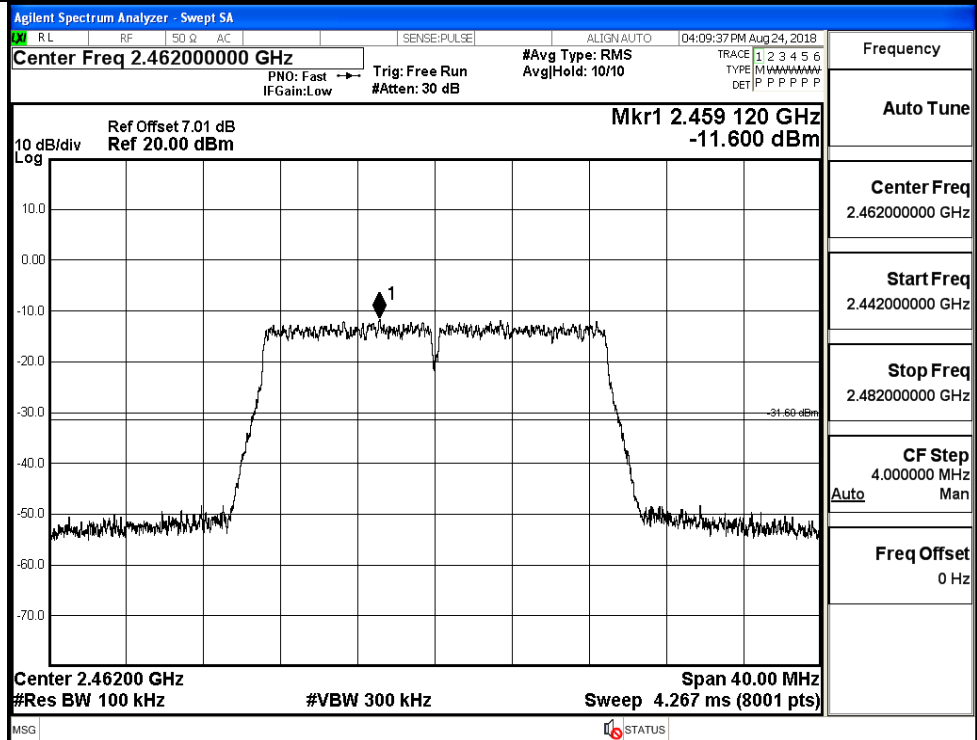
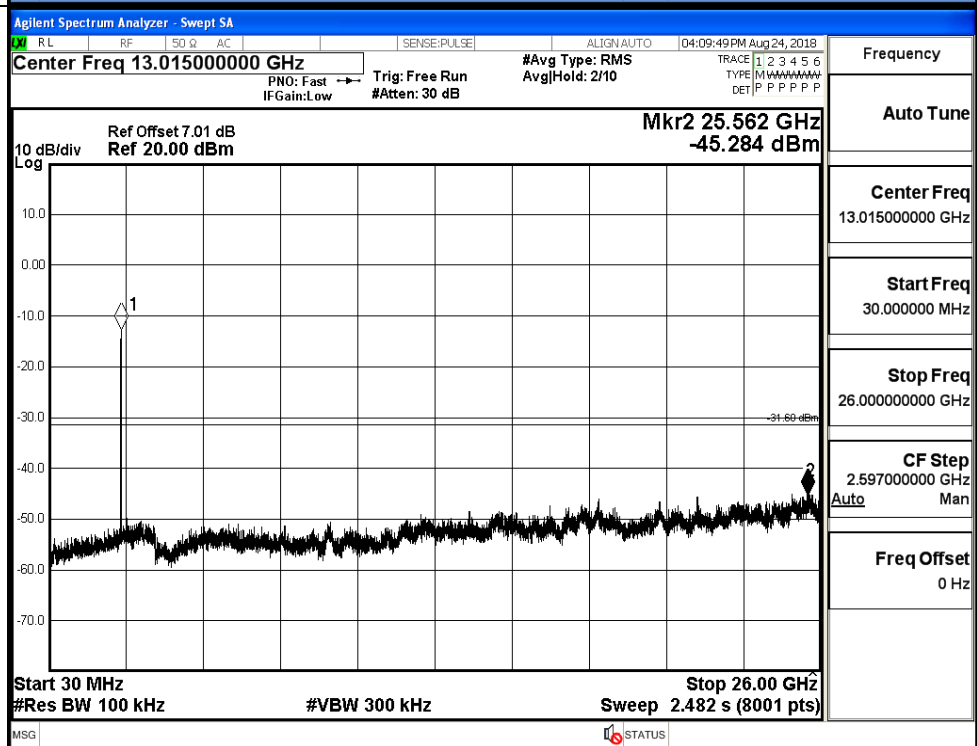
11N20SISO_LCH Graphs Ant 0

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

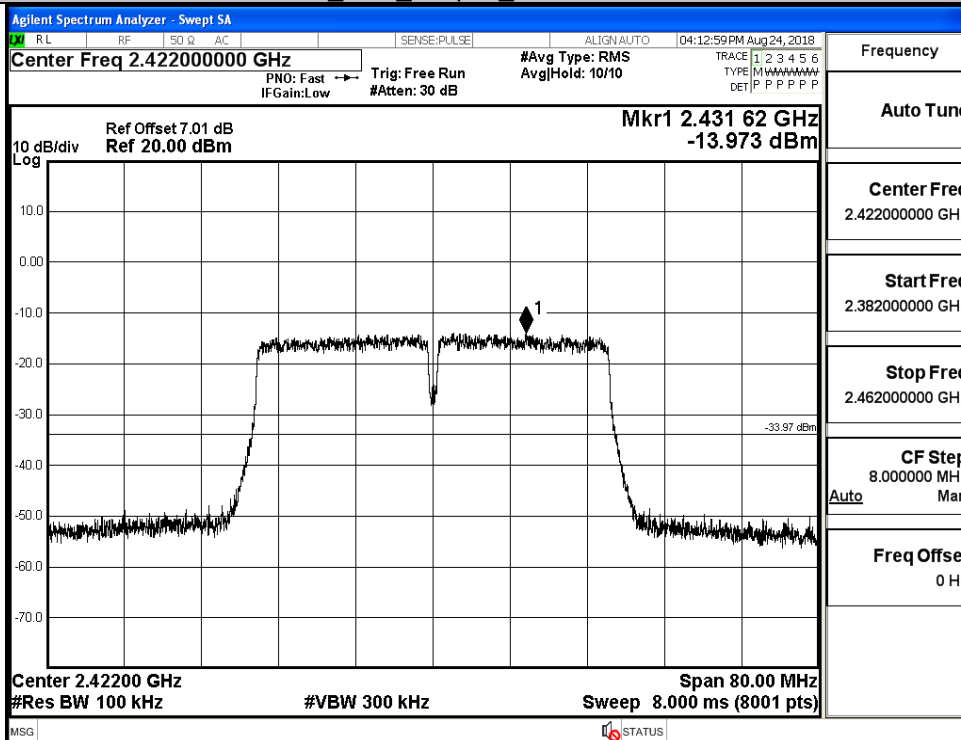
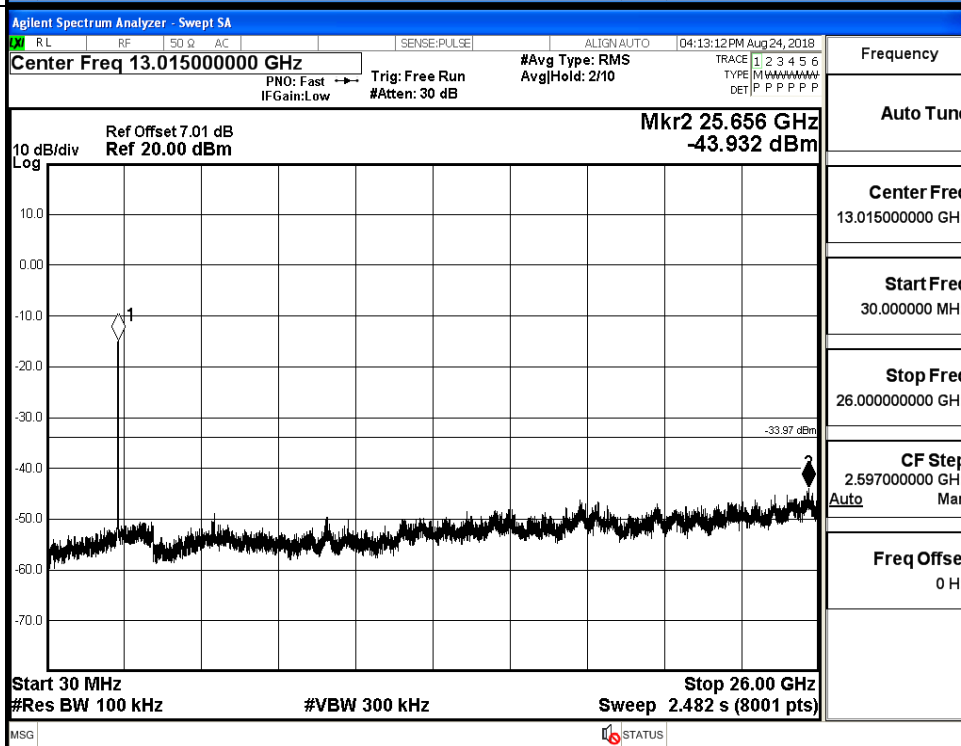
11N20SISO MCH Graphs Ant 0

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

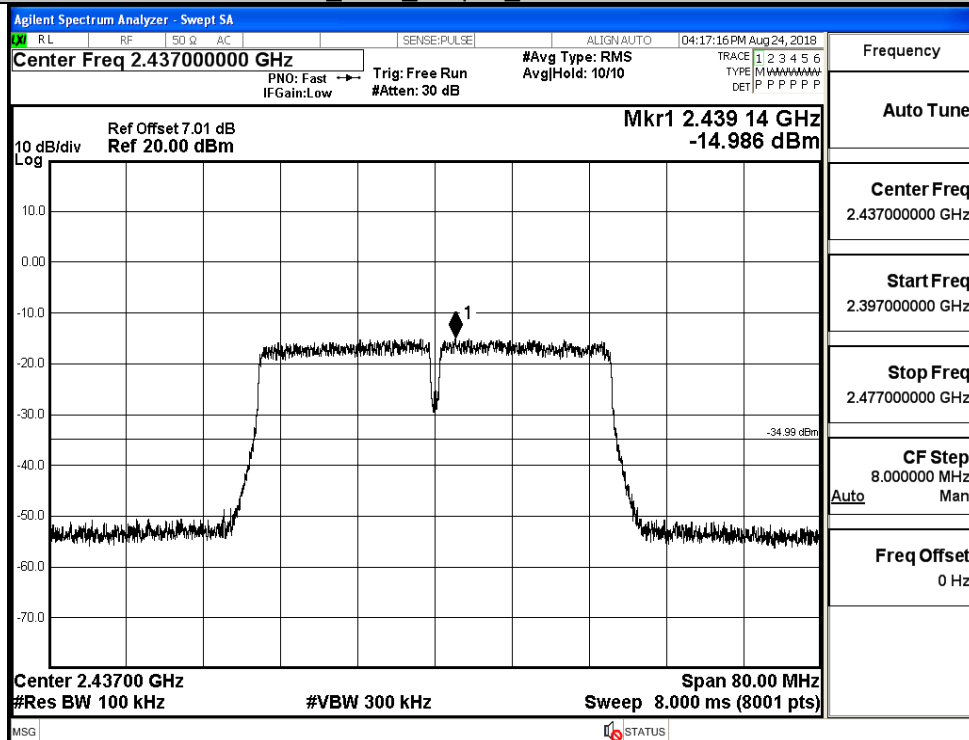
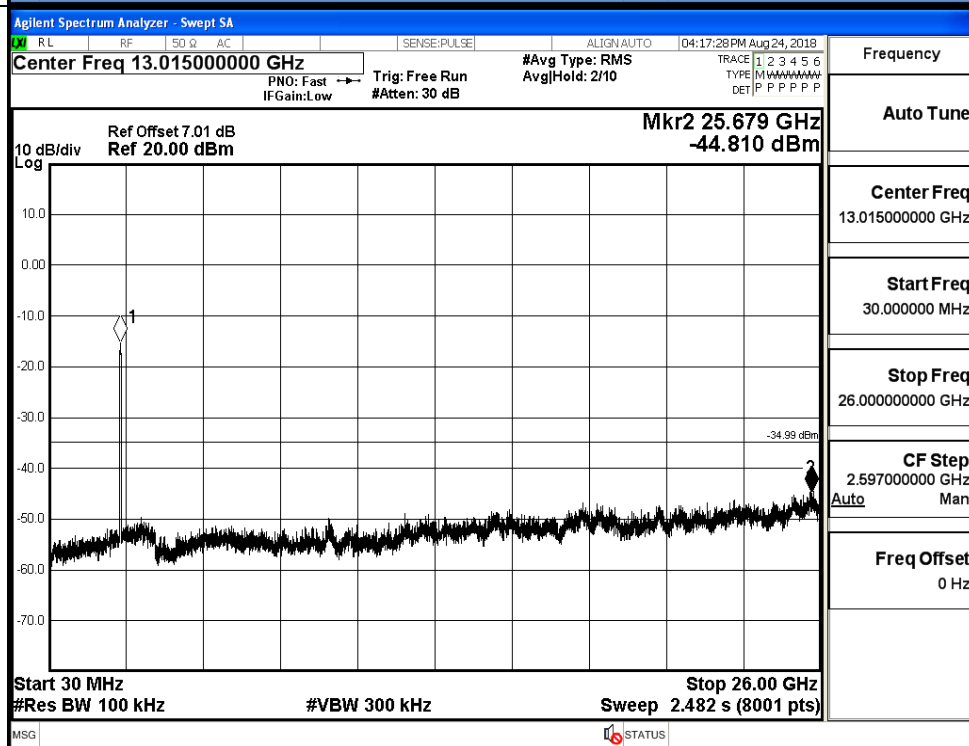
11N20SISO_HCH Graphs_Ant 0

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

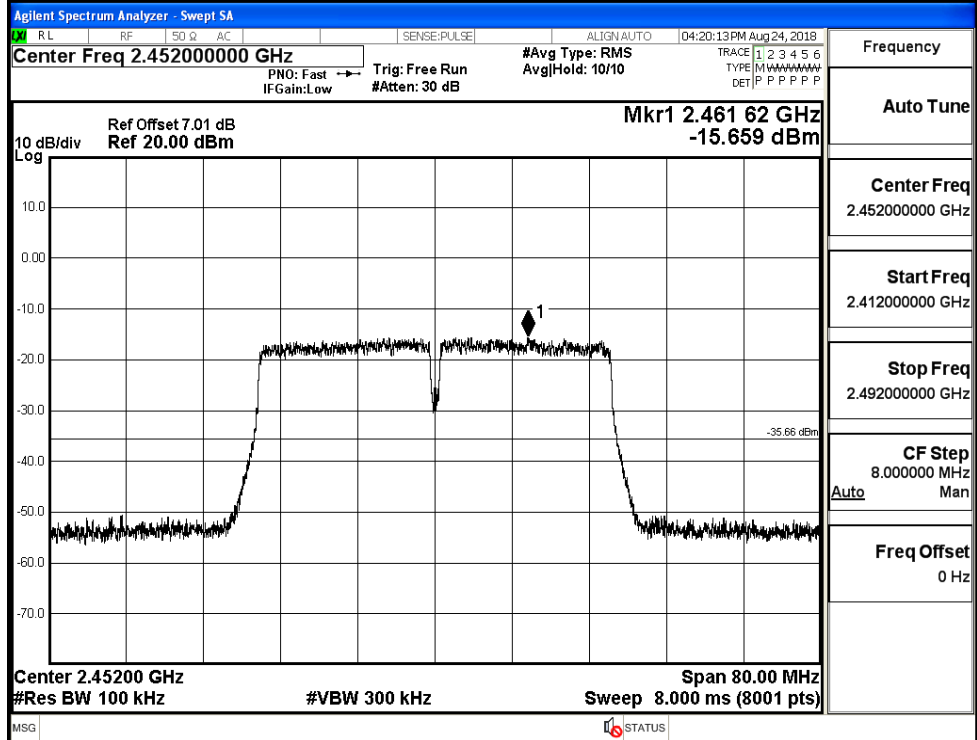
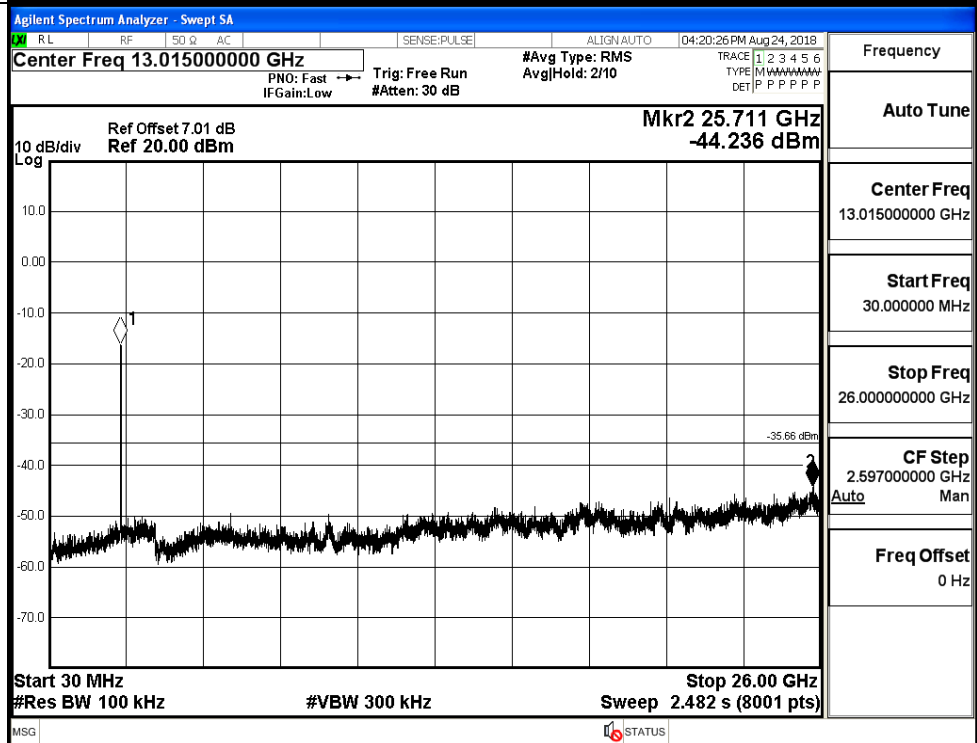
11N40SISO_LCH Graphs Ant 0

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

11N40SISO MCH Graphs Ant 0

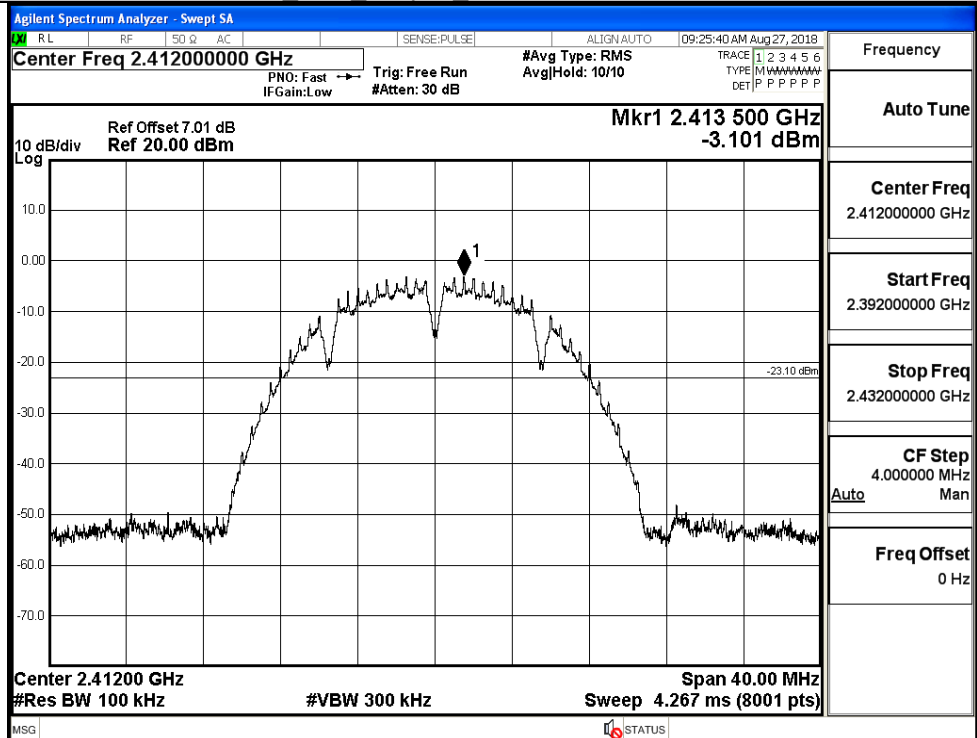
Pref/11N40
SISO/MCHPuw/11N40
SISO/MCH

11N40SISO_HCH Graphs_Ant 0

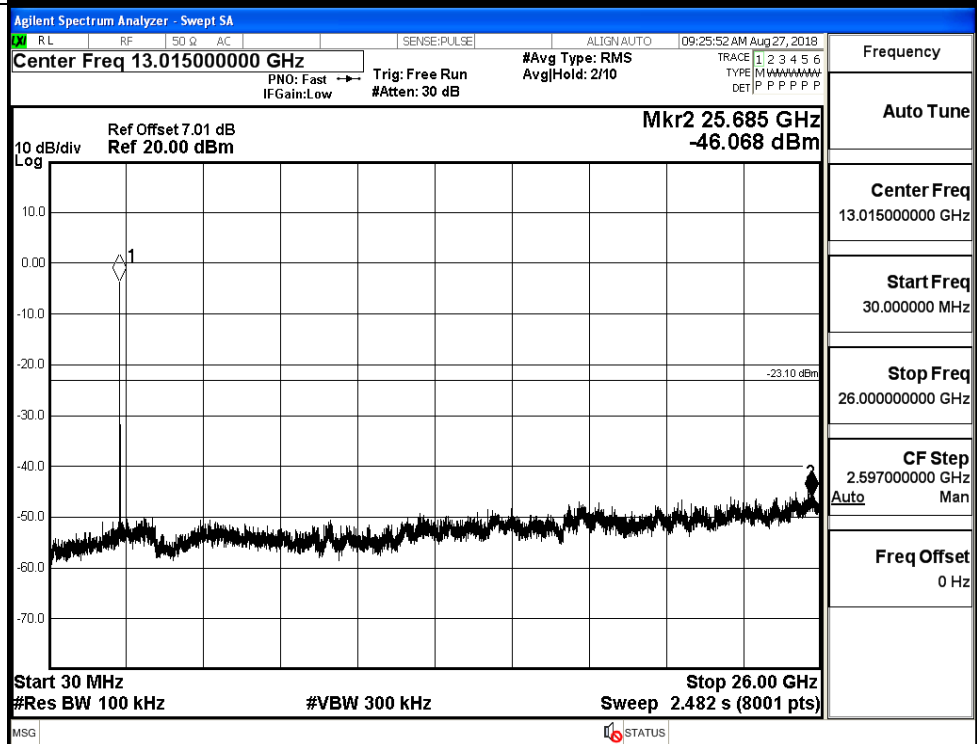
Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

11B LCH Graphs Ant 1

Pref/11B/LCH

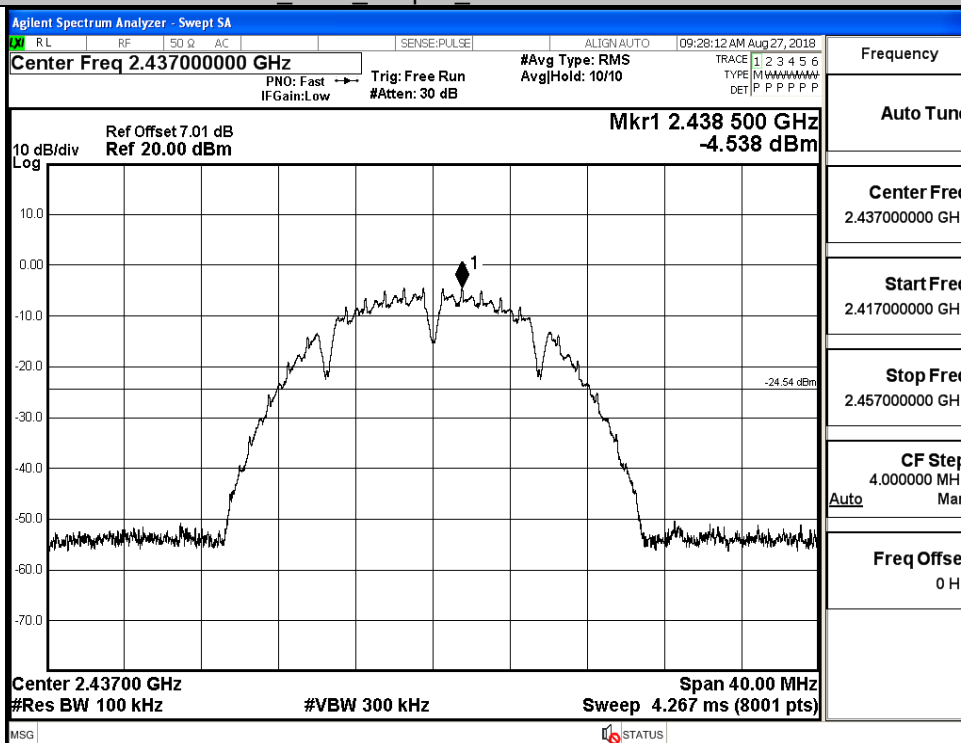


Puw/11B/LCH

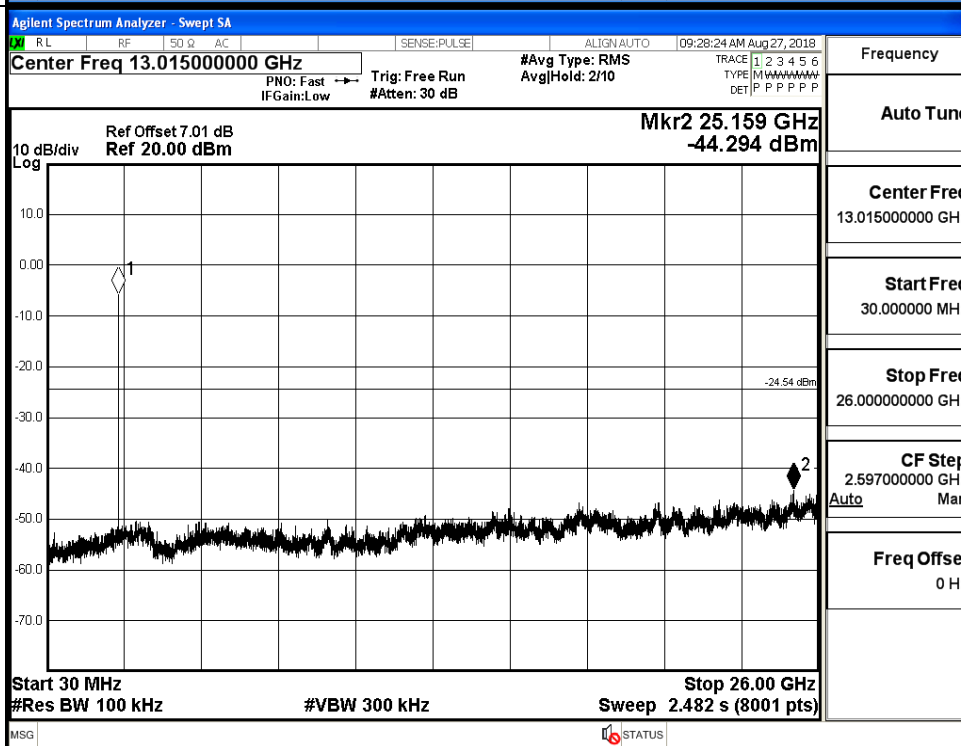


11B MCH Graphs Ant 1

Pref/11B/MCH

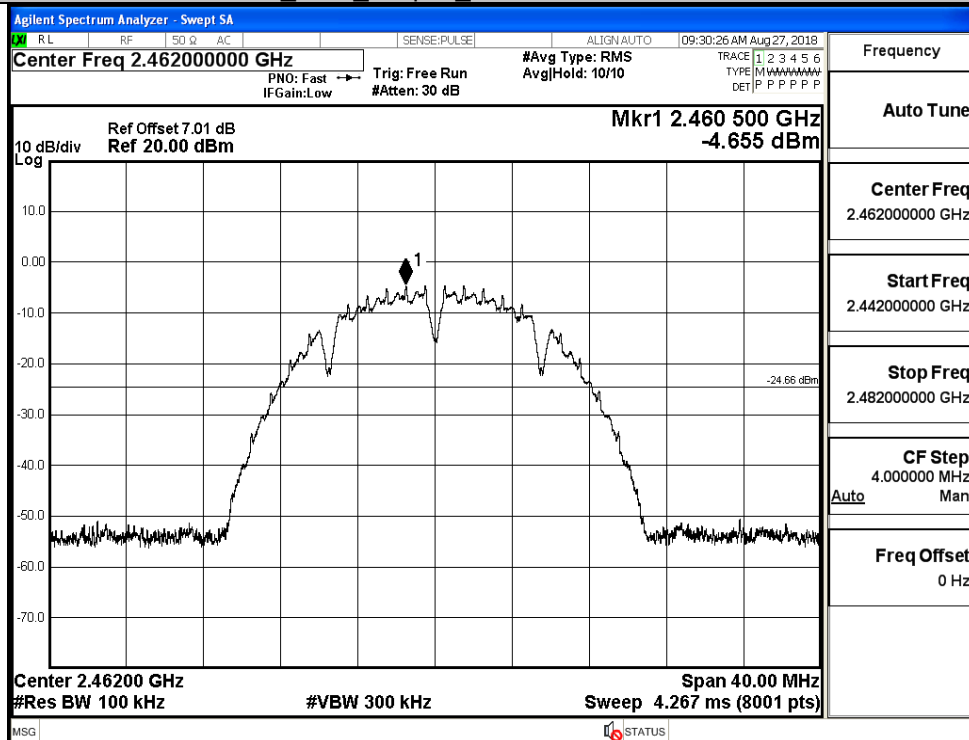


Puw/11B/MCH



11B HCH Graphs Ant 1

Pref/11B/HCH



Puw/11B/HCH

