

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Set top box

Trade Mark: N/A

Test Model: J5S

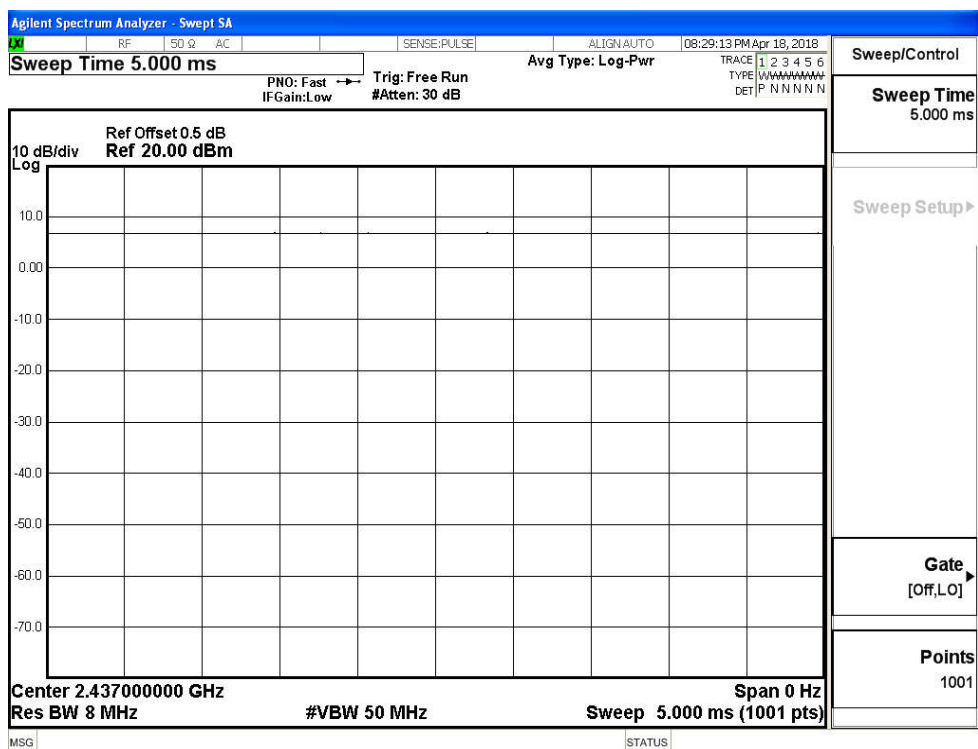
Environmental Conditions

Temperature:	24.1° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden Zhuo

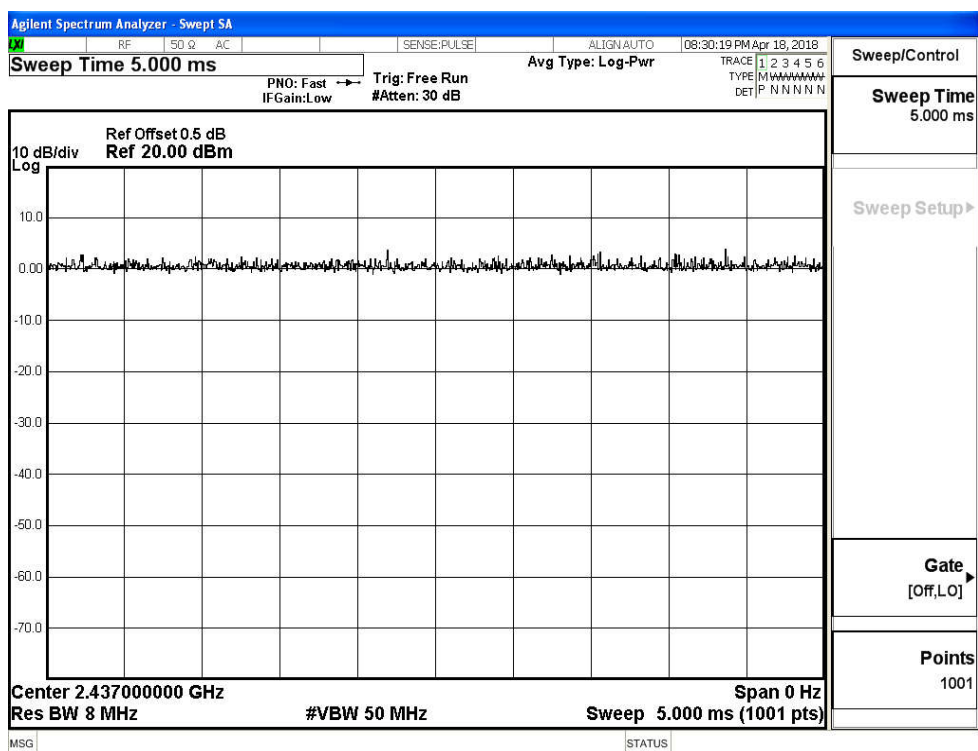
C.1 Duty Cycle

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

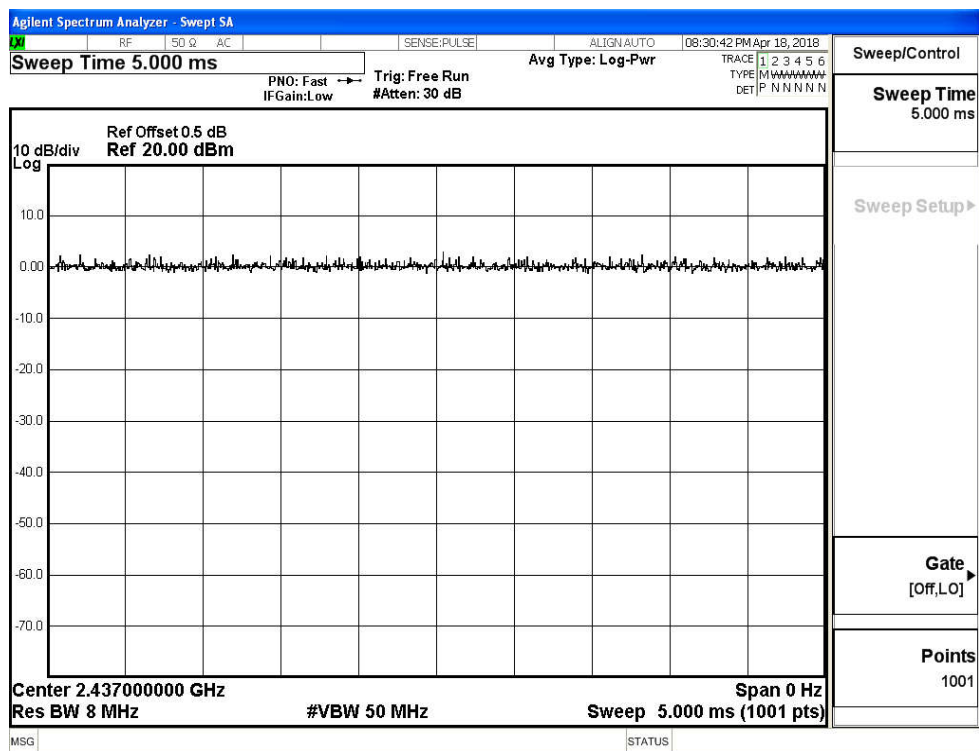
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



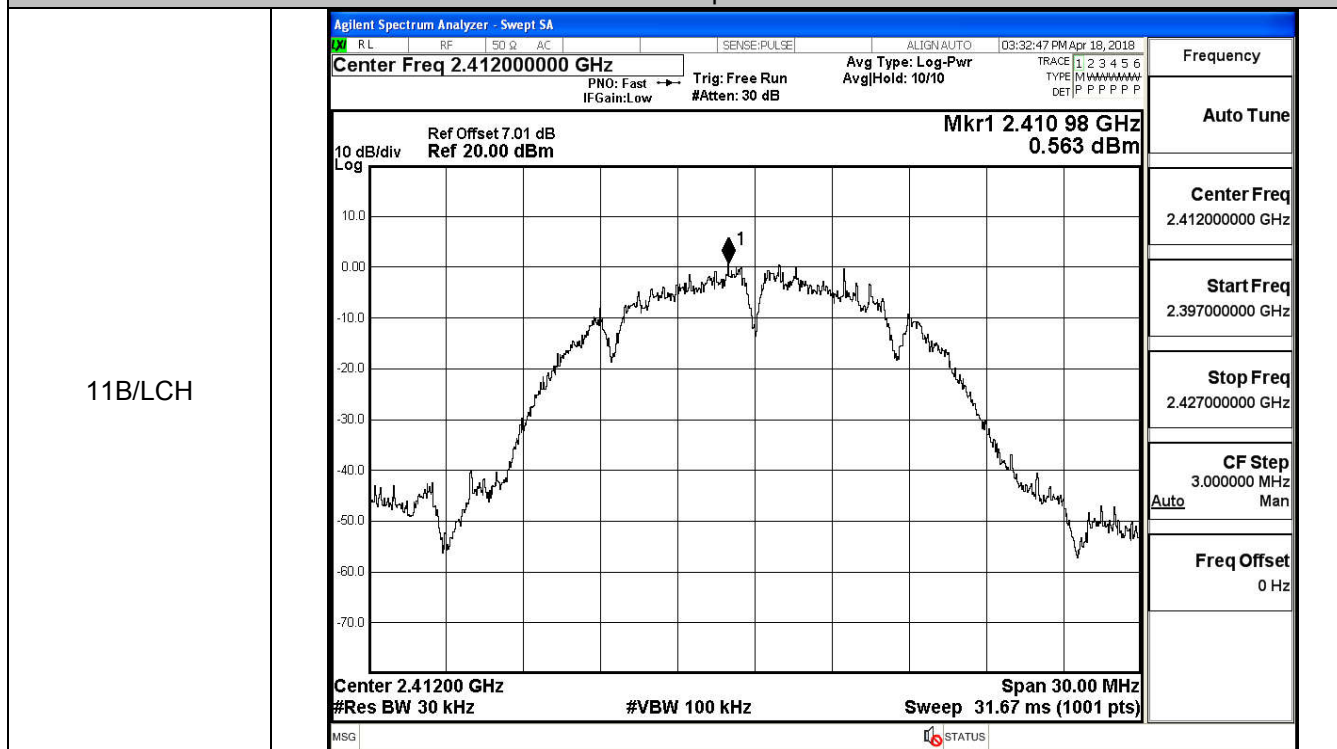
C.2 Maximum Peak Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	16.62	30	PASS
	MCH	16.53	30	PASS
	HCH	16.69	30	PASS
11G	LCH	16.52	30	PASS
	MCH	16.00	30	PASS
	HCH	16.31	30	PASS
11N20SISO	LCH	16.43	30	PASS
	MCH	16.00	30	PASS
	HCH	16.26	30	PASS

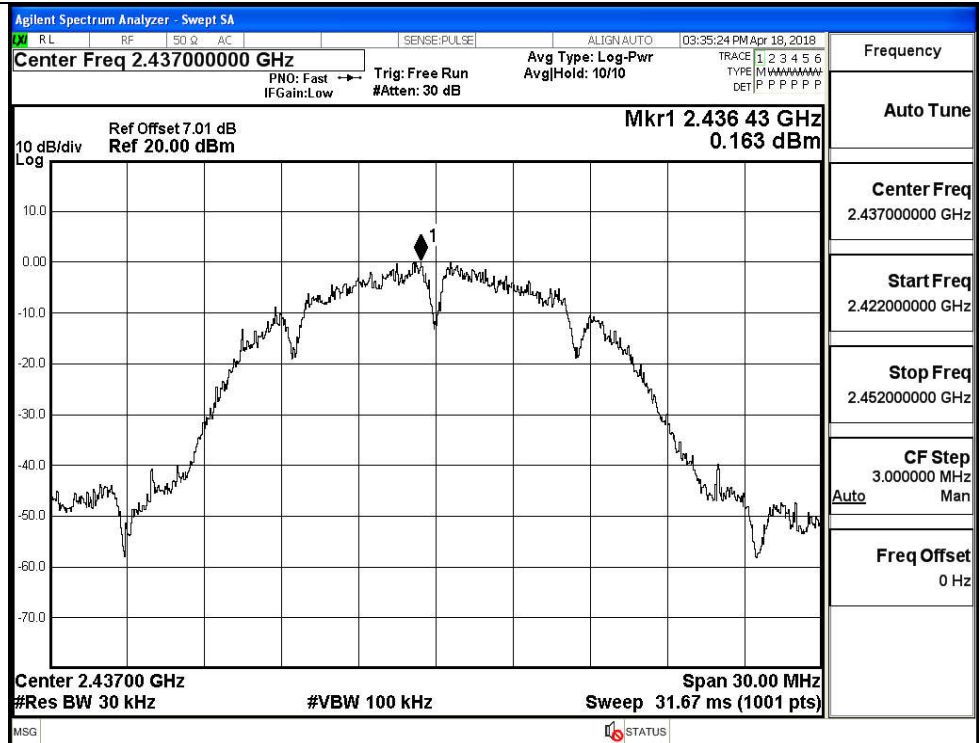
C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	0.563	8	PASS
	MCH	0.163	8	PASS
	HCH	1.067	8	PASS
11G	LCH	-3.271	8	PASS
	MCH	-3.173	8	PASS
	HCH	-2.788	8	PASS
11N20SISO	LCH	-3.759	8	PASS
	MCH	-4.320	8	PASS
	HCH	-4.209	8	PASS

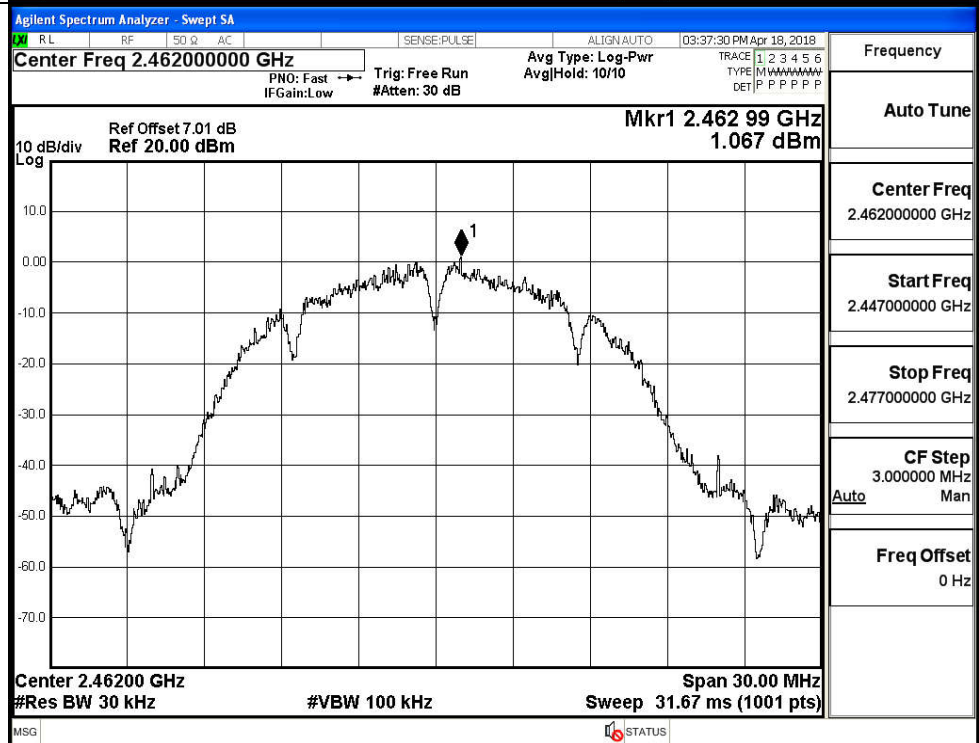
Test Graphs



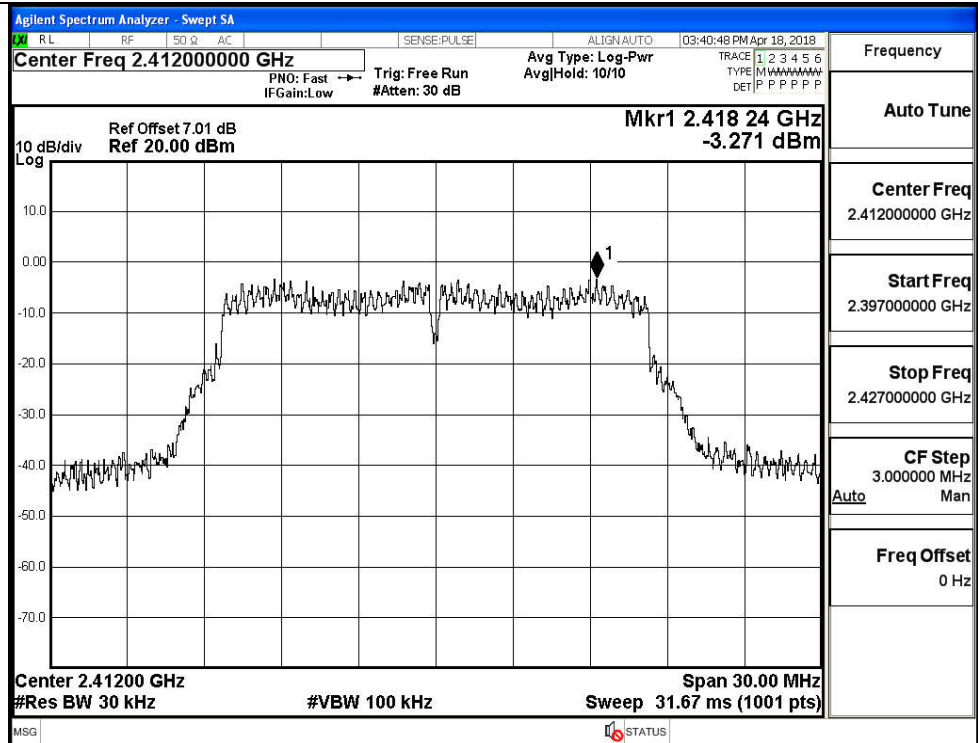
11B/MCH



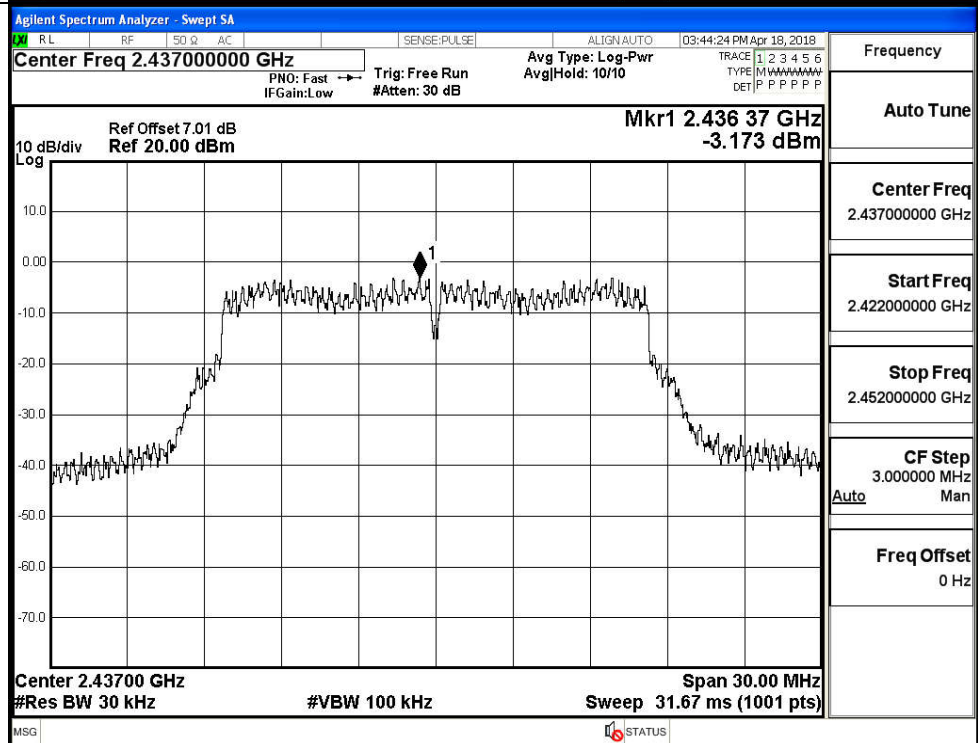
11B/HCH



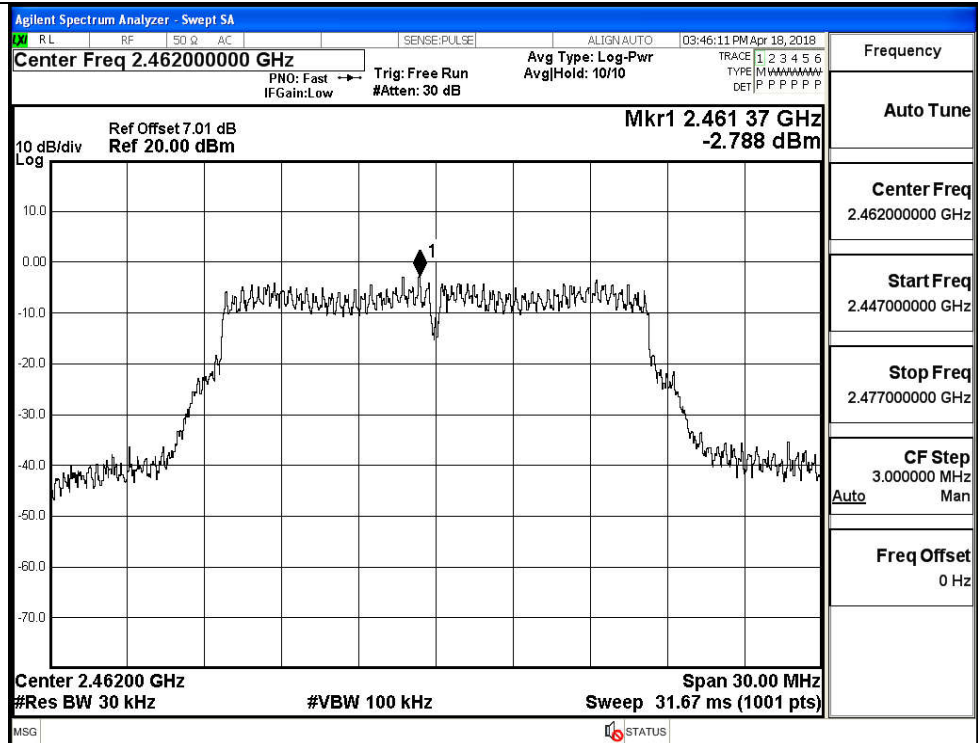
11G/LCH



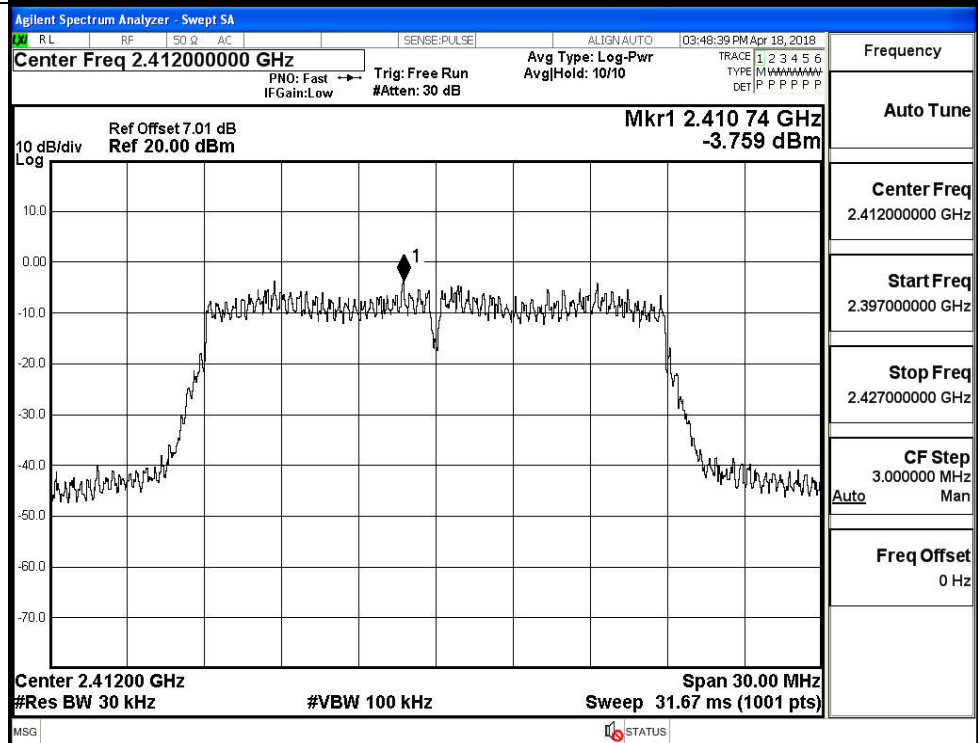
11G/MCH



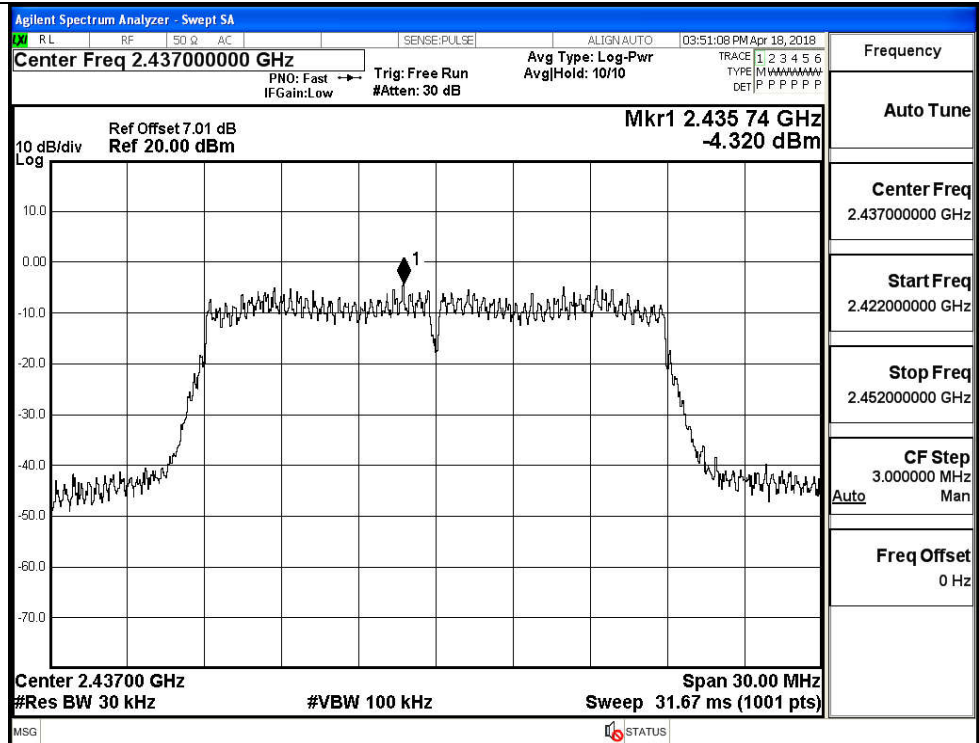
11G/HCH



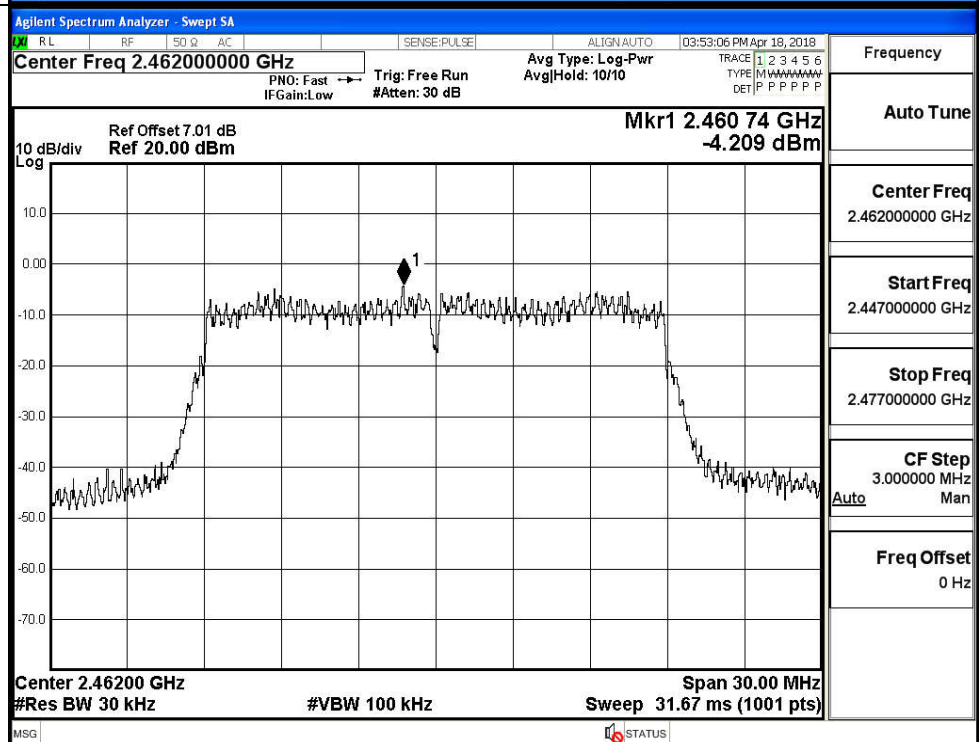
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

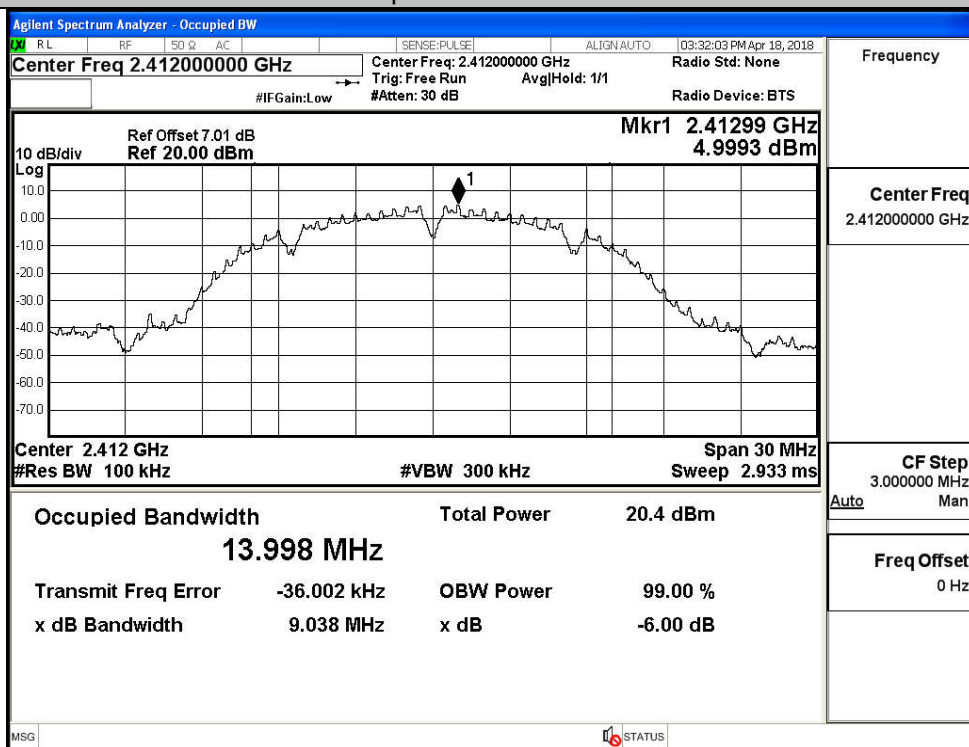


C.4 6dB Bandwidth

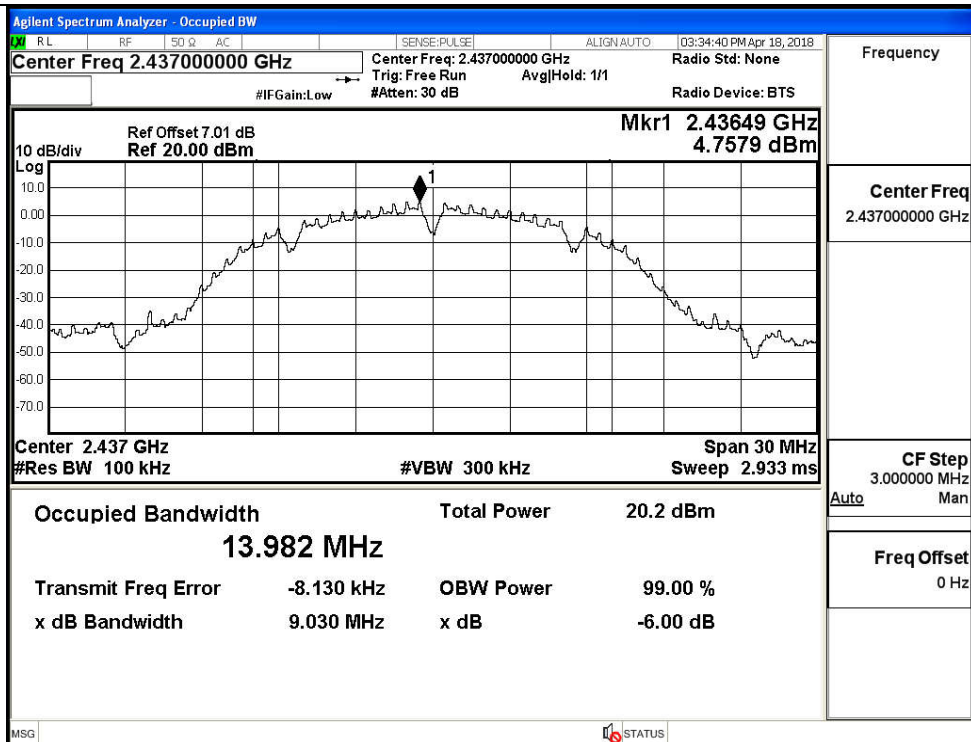
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.038	≥ 0.5	PASS
	MCH	9.030	≥ 0.5	PASS
	HCH	9.076	≥ 0.5	PASS
11G	LCH	16.04	≥ 0.5	PASS
	MCH	15.57	≥ 0.5	PASS
	HCH	16.05	≥ 0.5	PASS
11N20SISO	LCH	17.53	≥ 0.5	PASS
	MCH	17.55	≥ 0.5	PASS
	HCH	16.70	≥ 0.5	PASS

Test Graphs

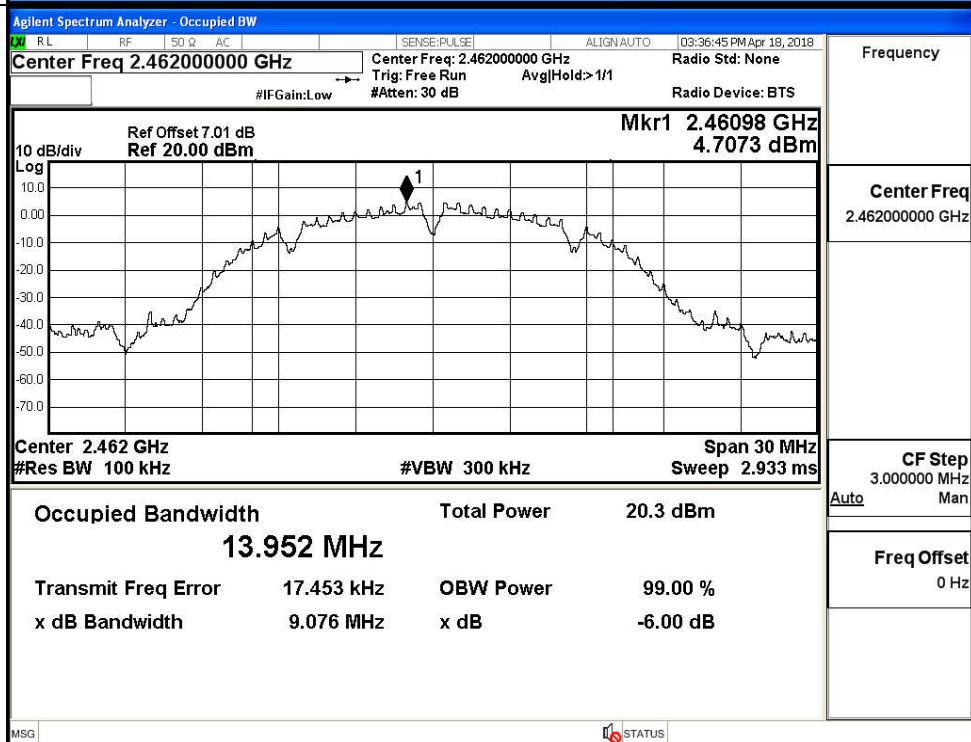
11B/LCH



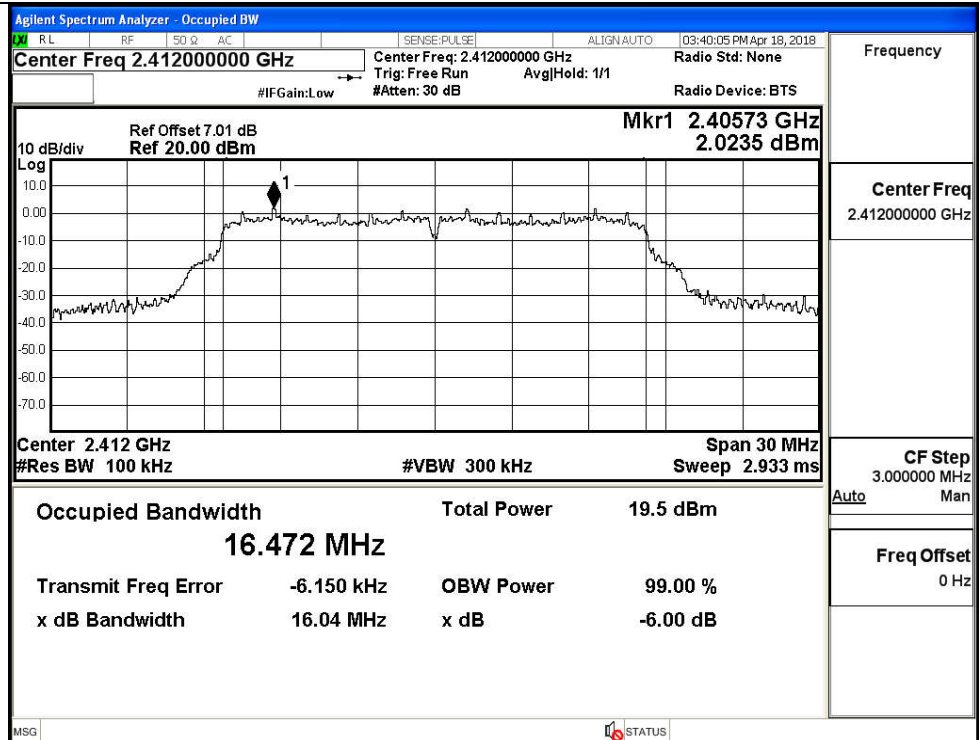
11B/MCH



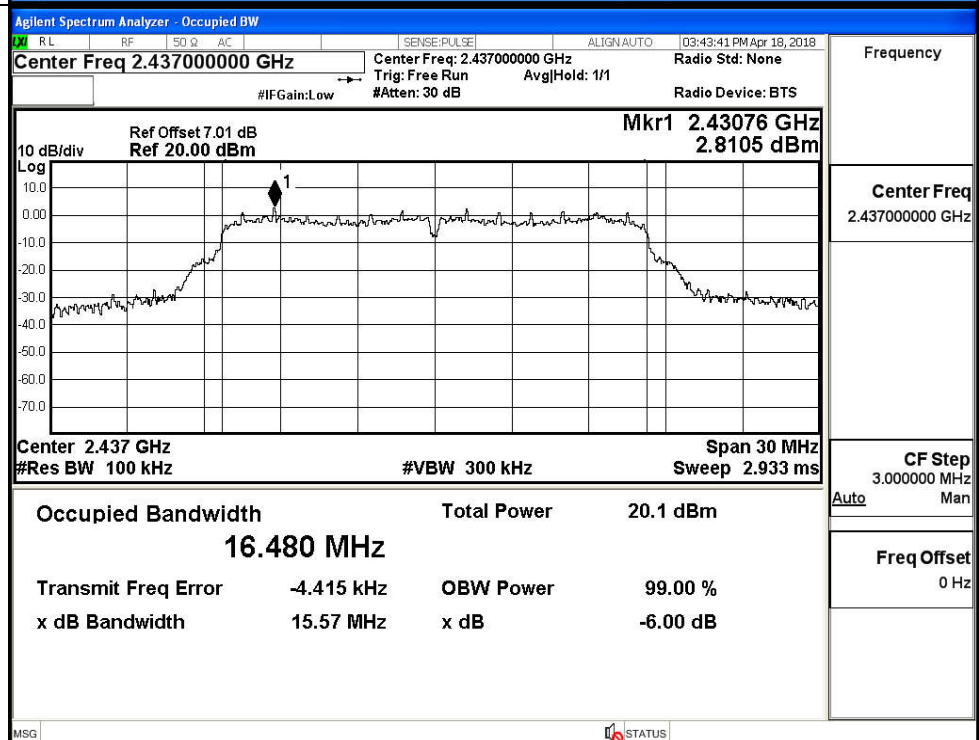
11B/HCH



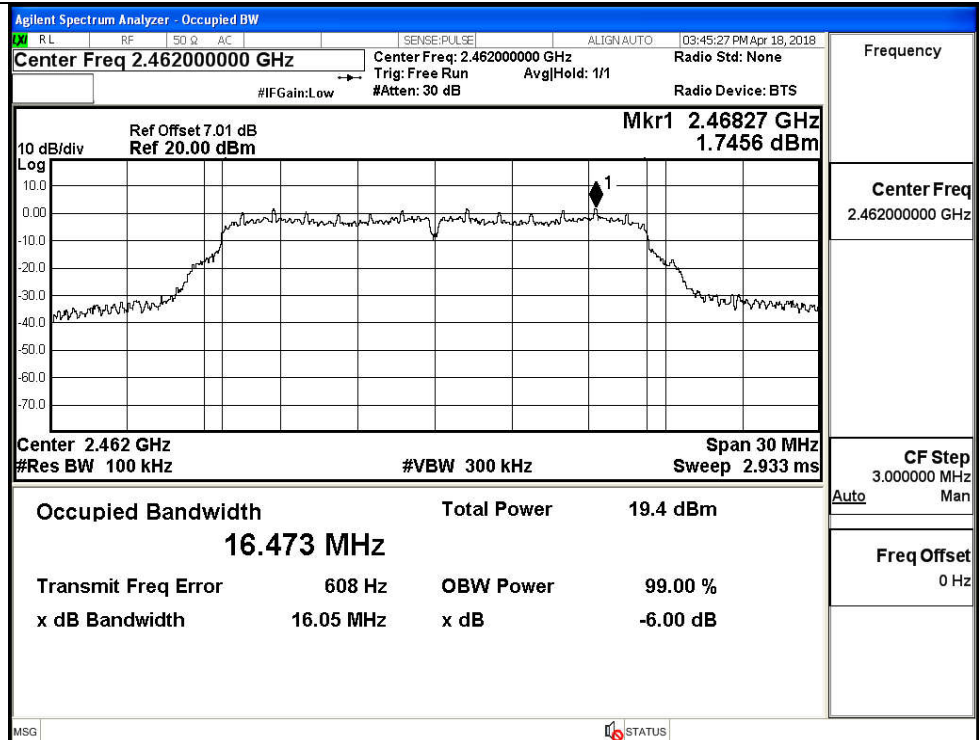
11G/LCH



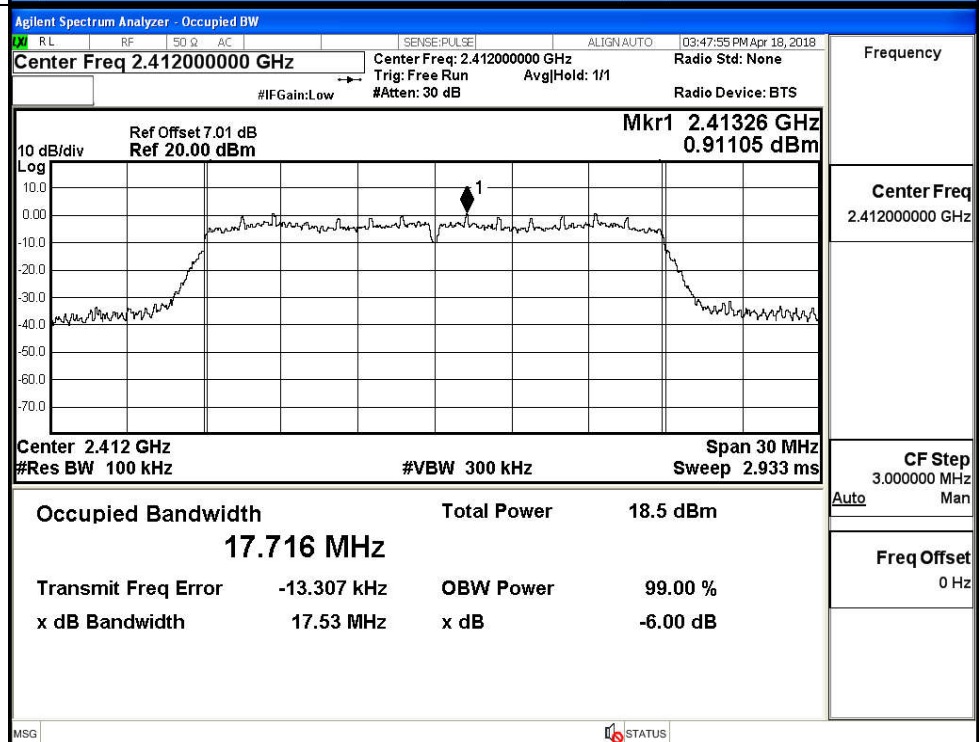
11G/MCH



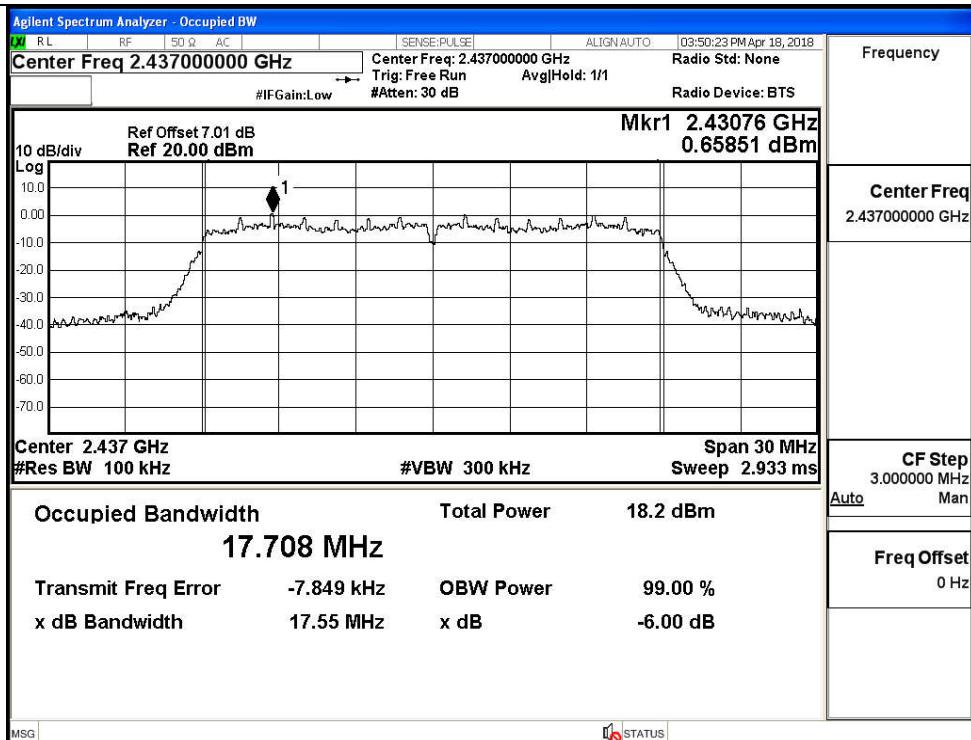
11G/HCH



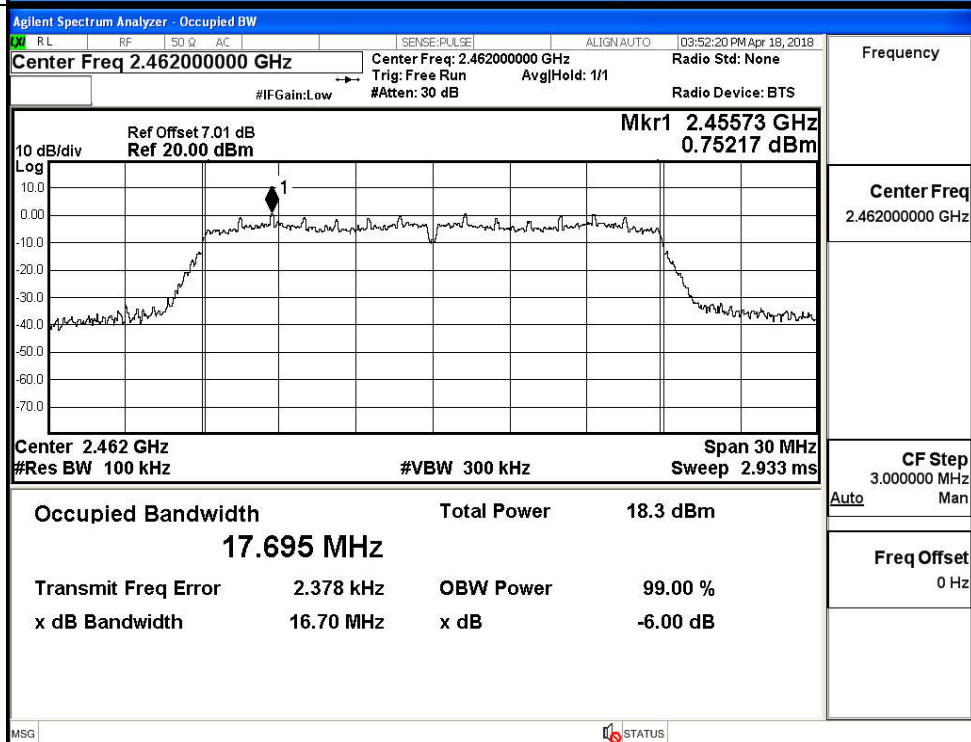
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

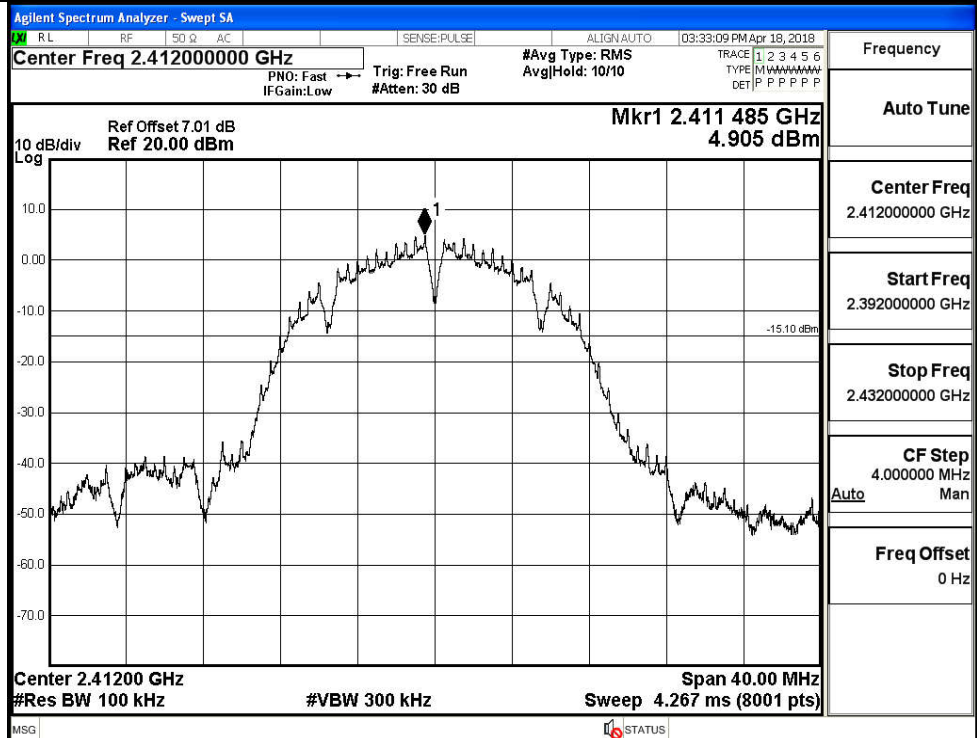


C.5 RF Conducted Spurious Emissions

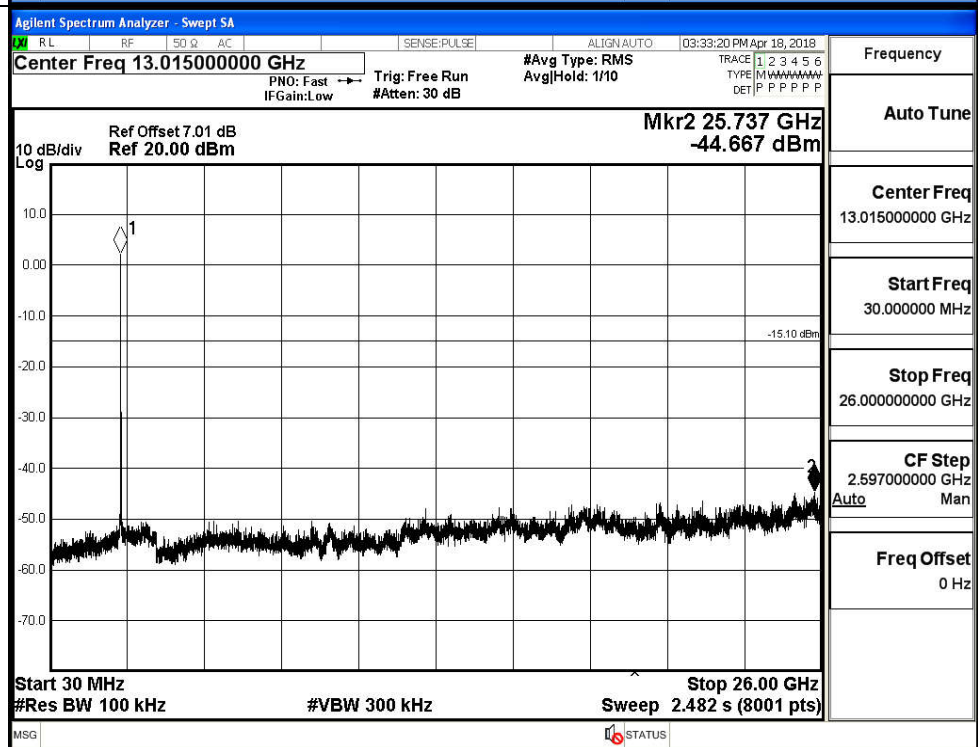
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.905	-44.667	-15.095	PASS
	MCH	4.619	-45.608	-15.381	PASS
	HCH	4.843	-45.515	-15.157	PASS
11G	LCH	2.441	-45.425	-17.559	PASS
	MCH	2.152	-45.293	-17.848	PASS
	HCH	1.601	-44.111	-18.399	PASS
11N20 SISO	LCH	0.279	-44.944	-19.721	PASS
	MCH	0.387	-45.246	-19.613	PASS
	HCH	0.42	-44.397	-19.580	PASS

11B LCH Graphs

Pref/11B/LCH

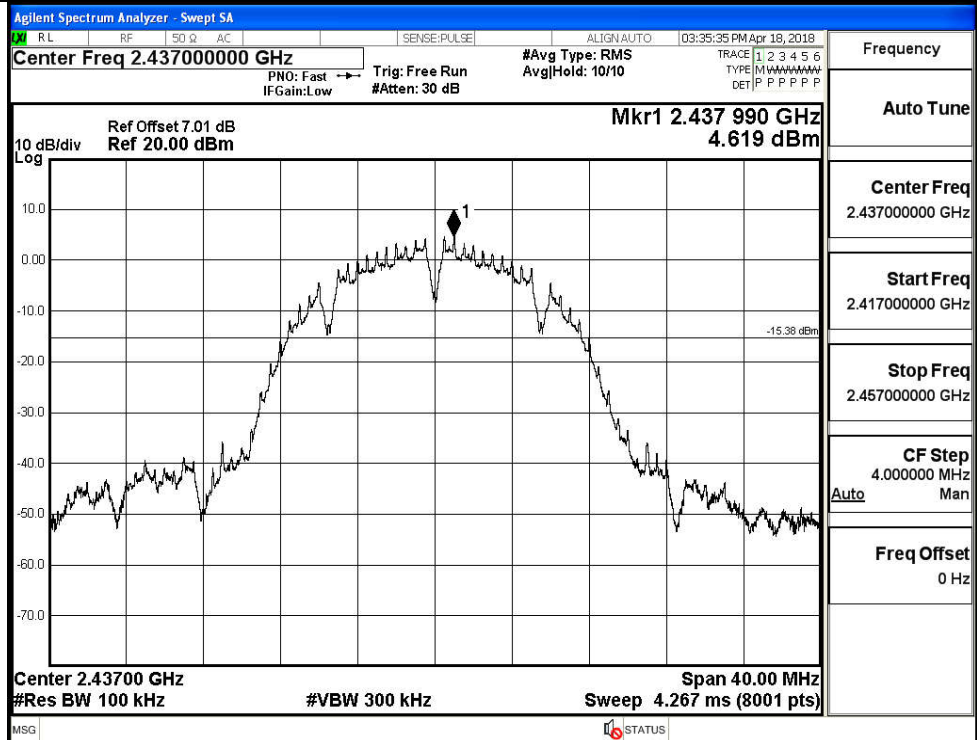


Puw/11B/LCH

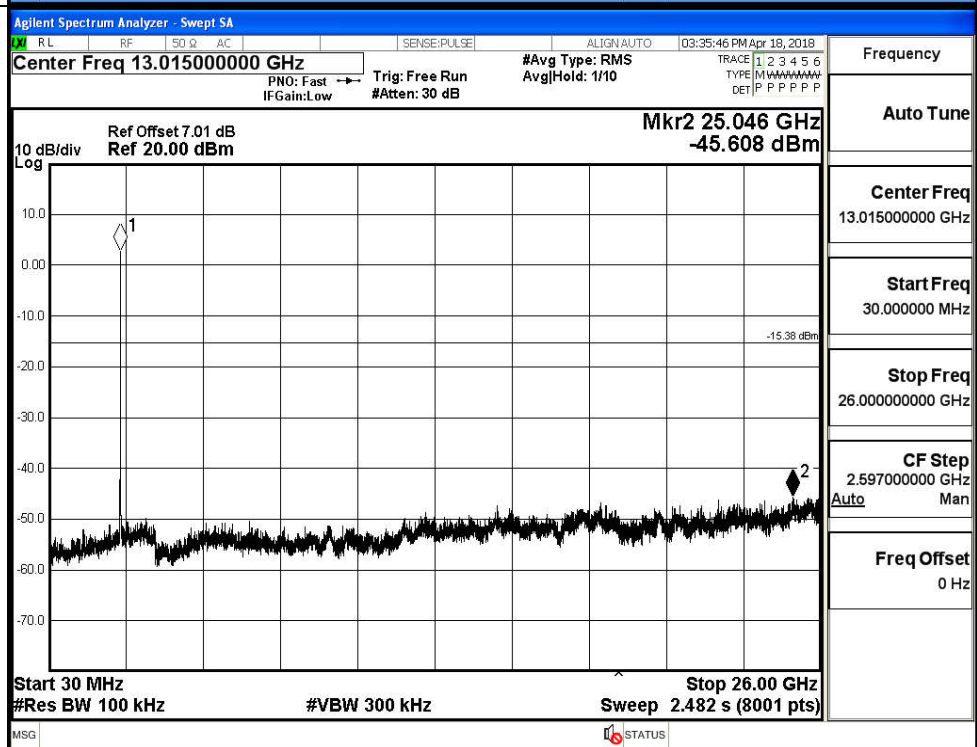


11B_MCH_Graphs

Pref/11B/MCH

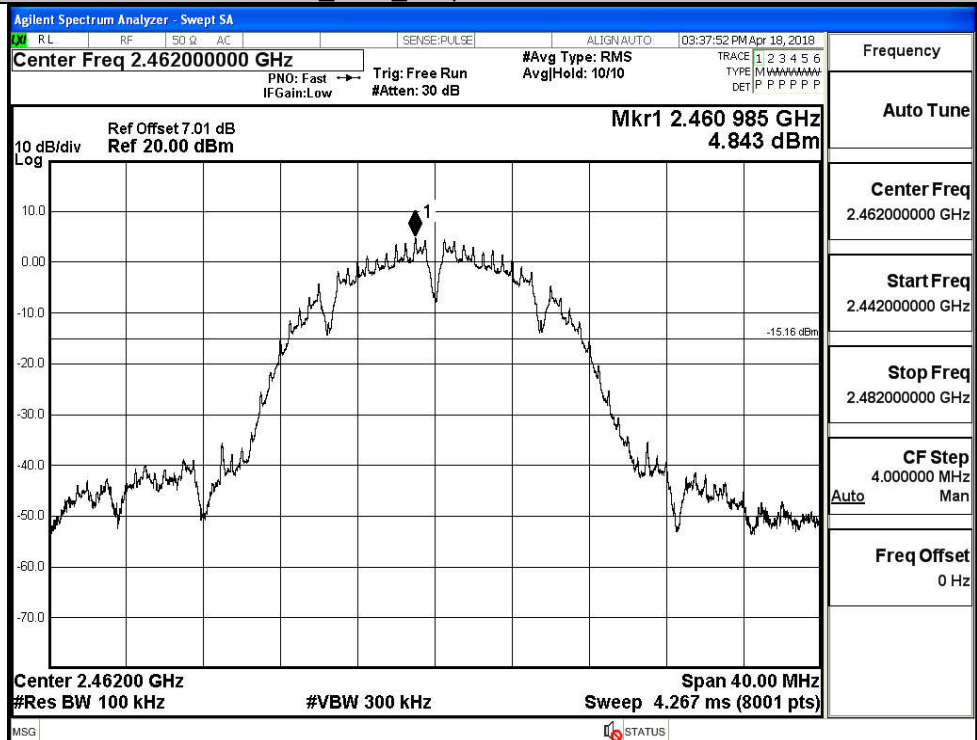


Puw/11B/MCH

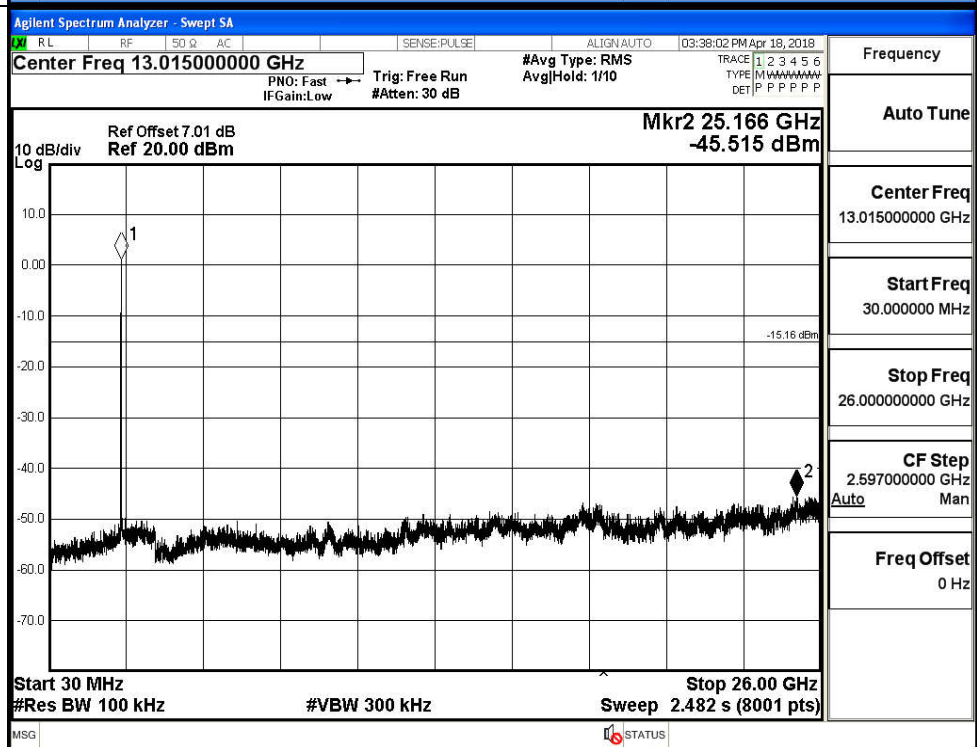


11B HCH Graphs

Pref/11B/HCH

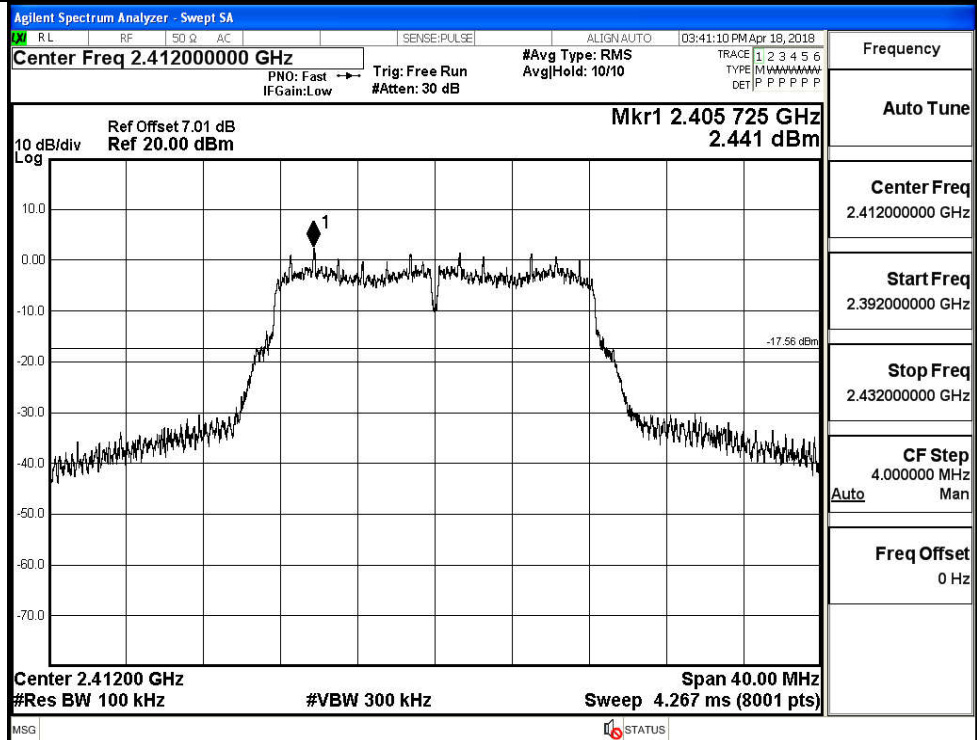


Puw/11B/HCH

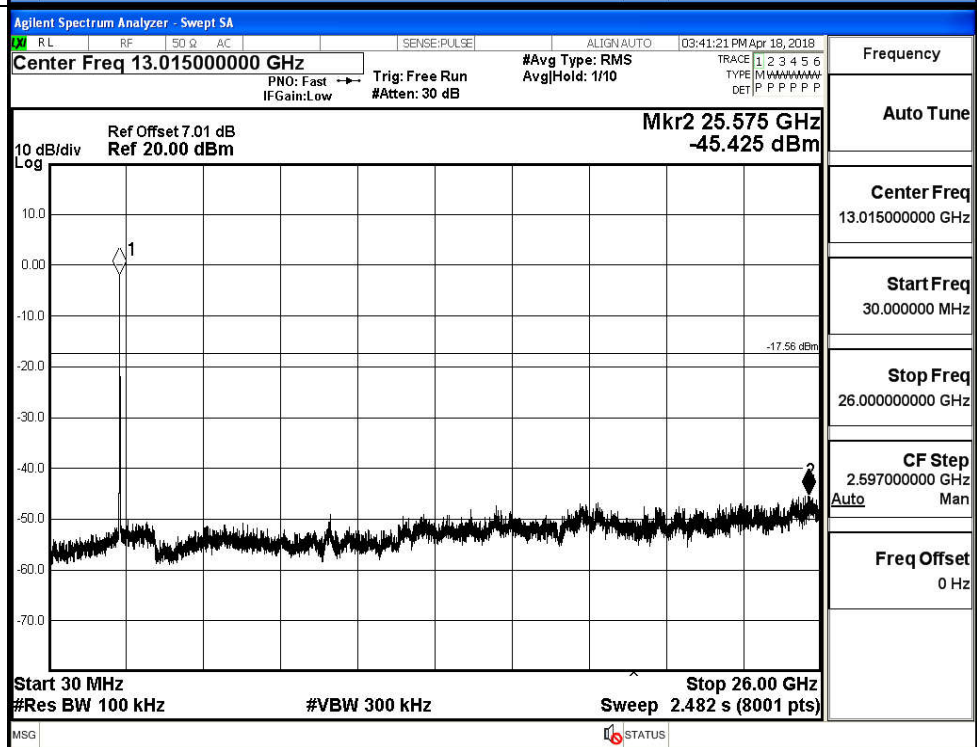


11G_LCH_Graphs

Pref/11G/LCH

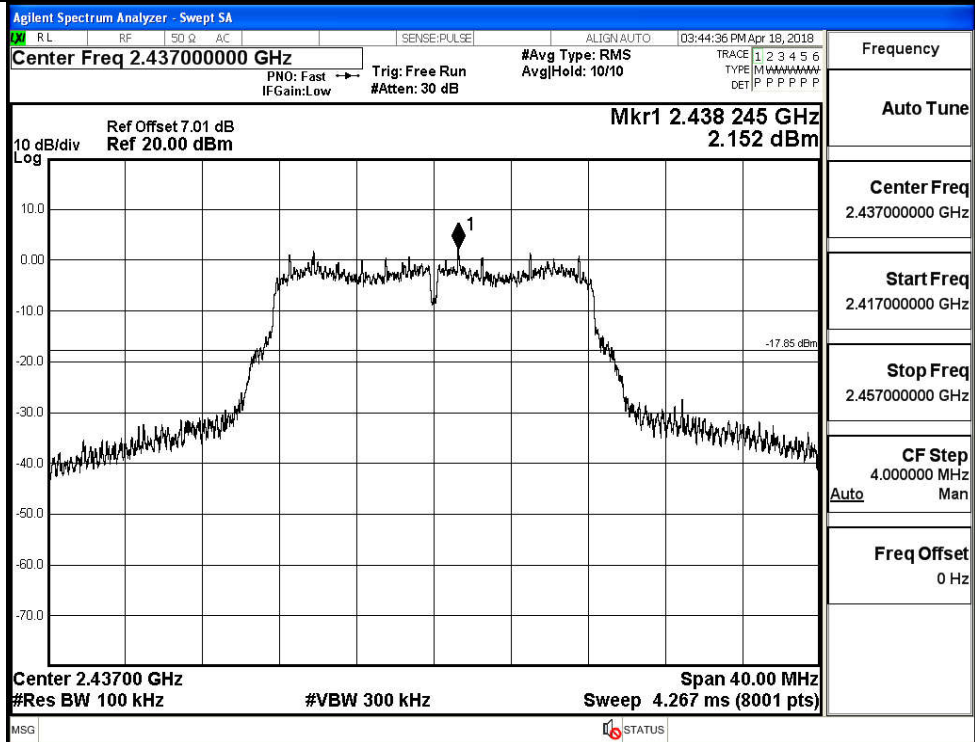


Puw/11G/LCH

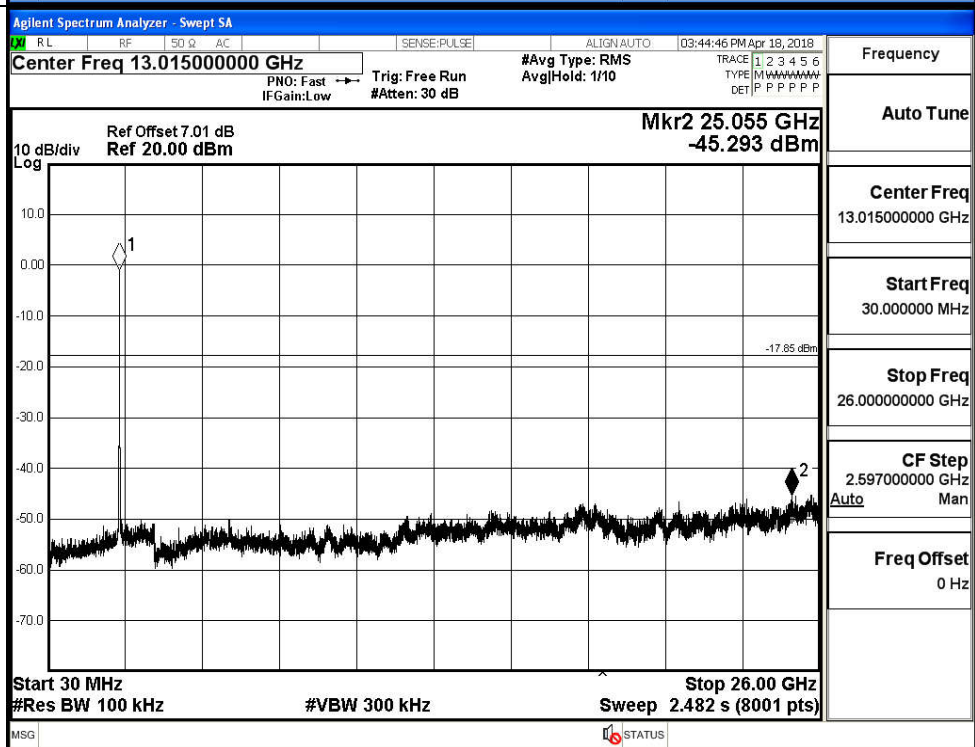


11G_MCH_Graphs

Pref/11G/MCH

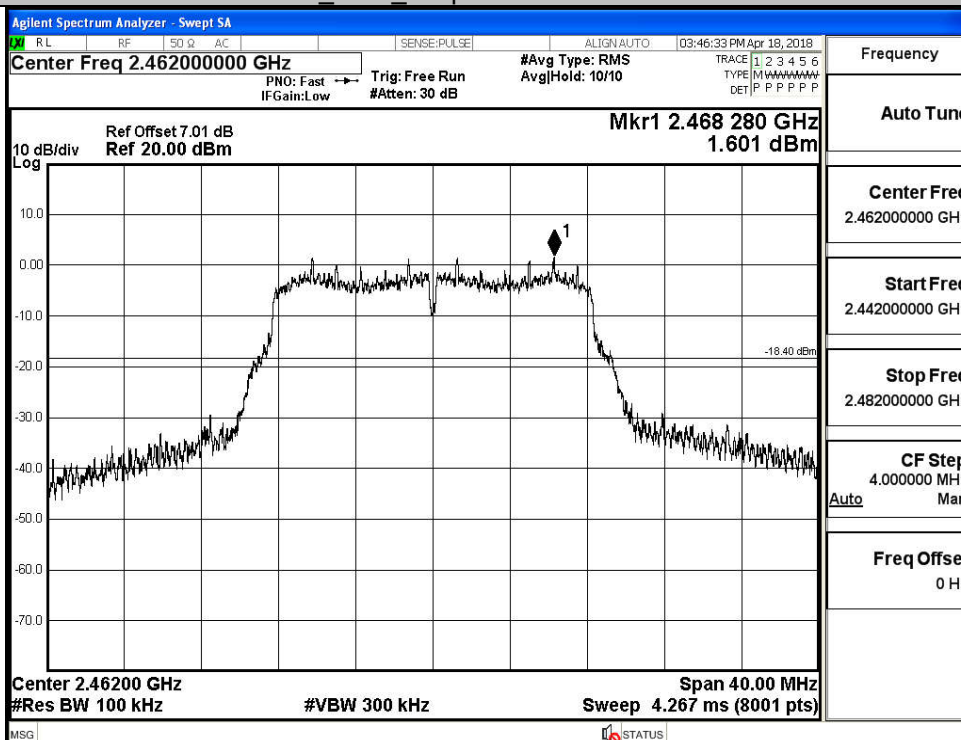


Puw/11G/MCH

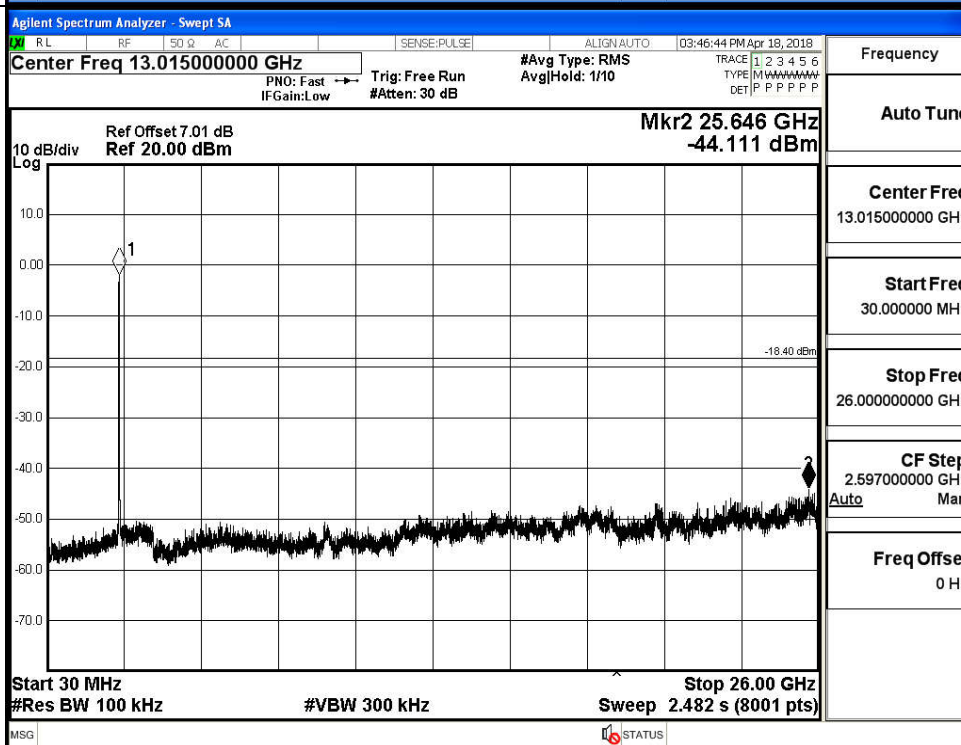


11G HCH Graphs

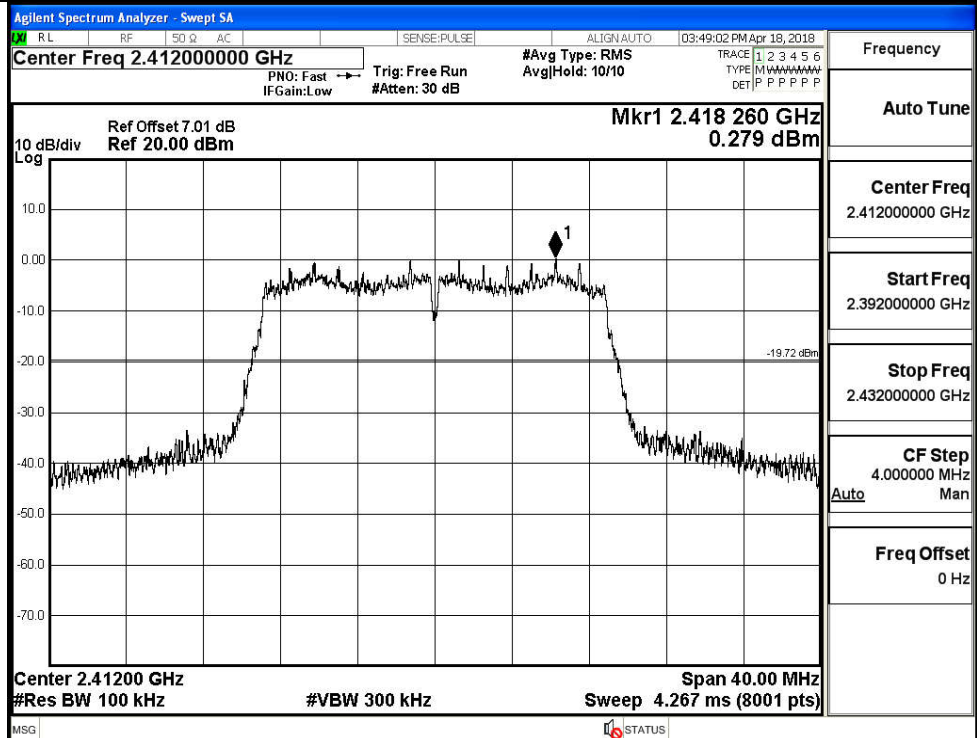
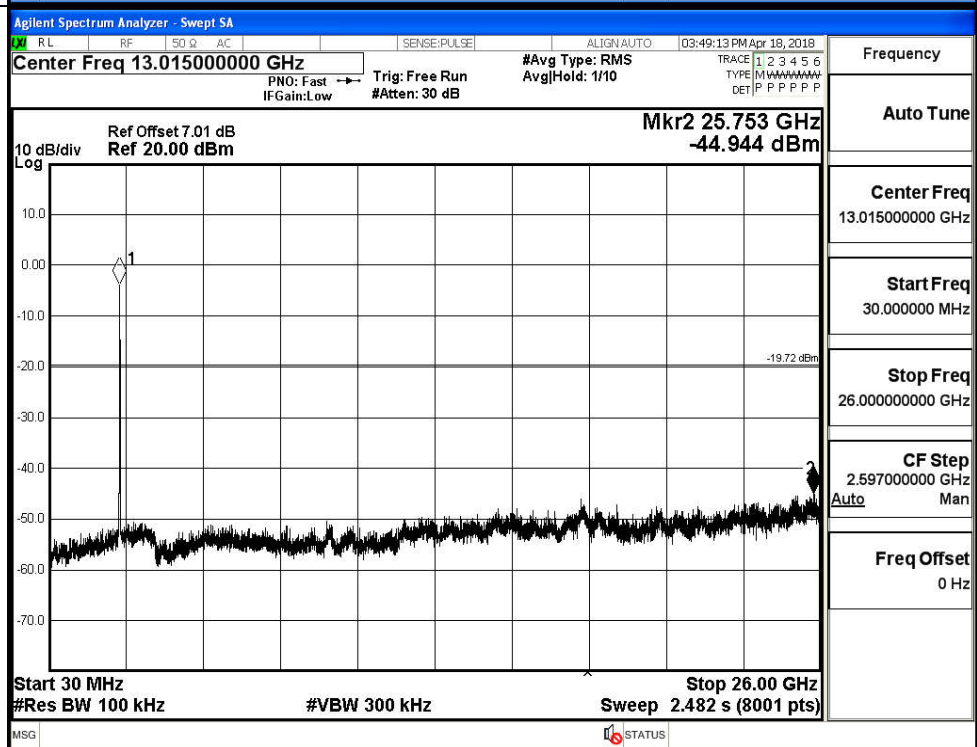
Pref/11G/HCH



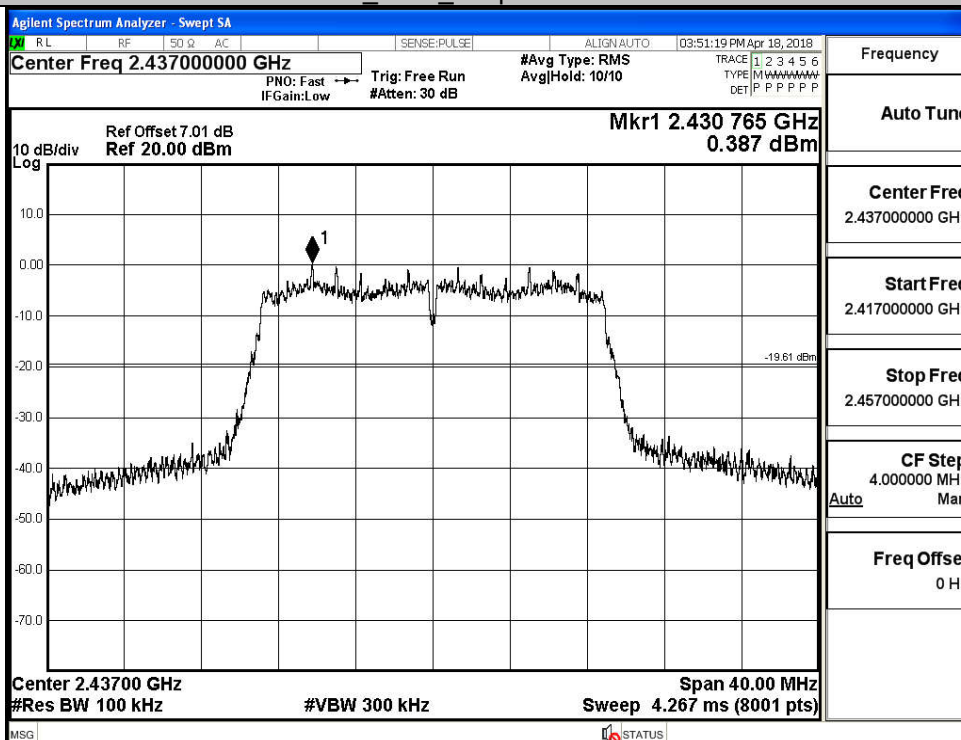
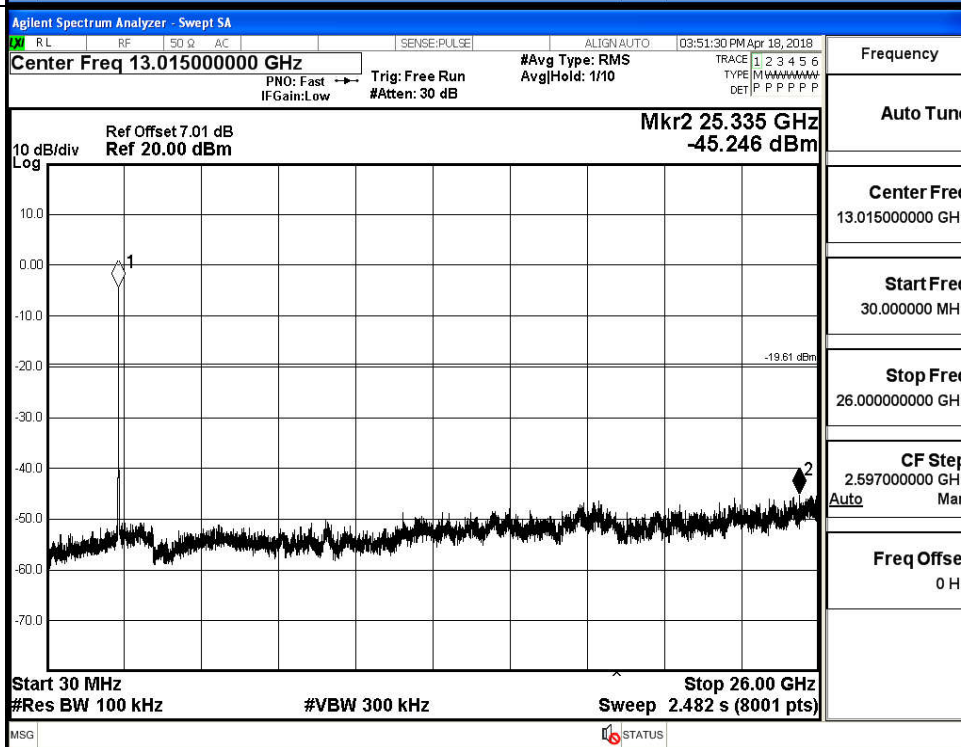
Puw/11G/HCH



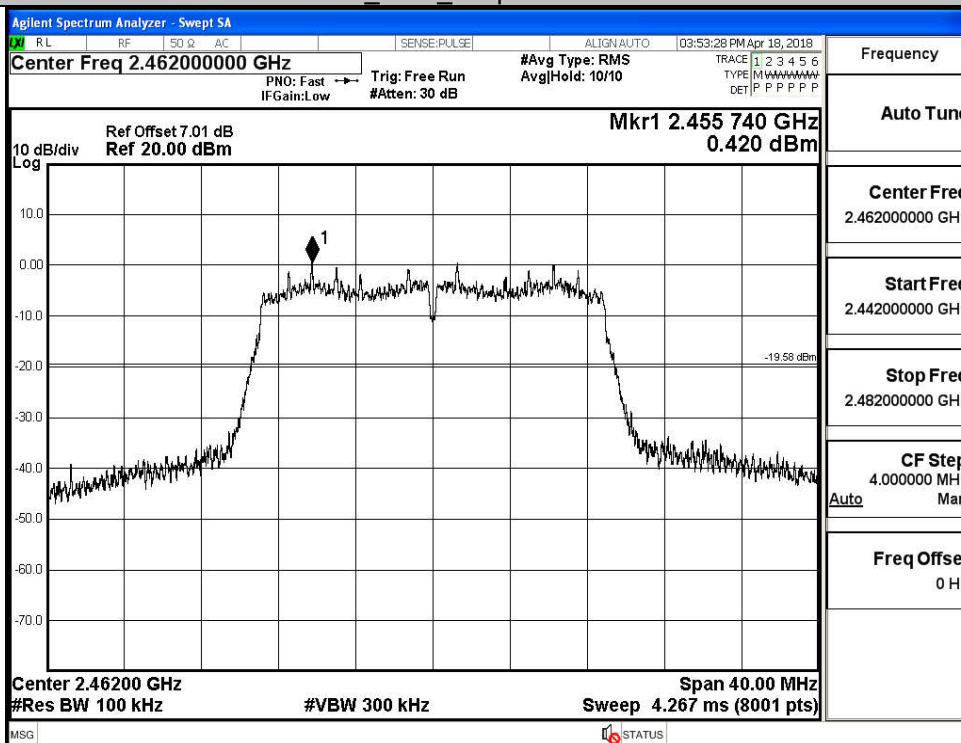
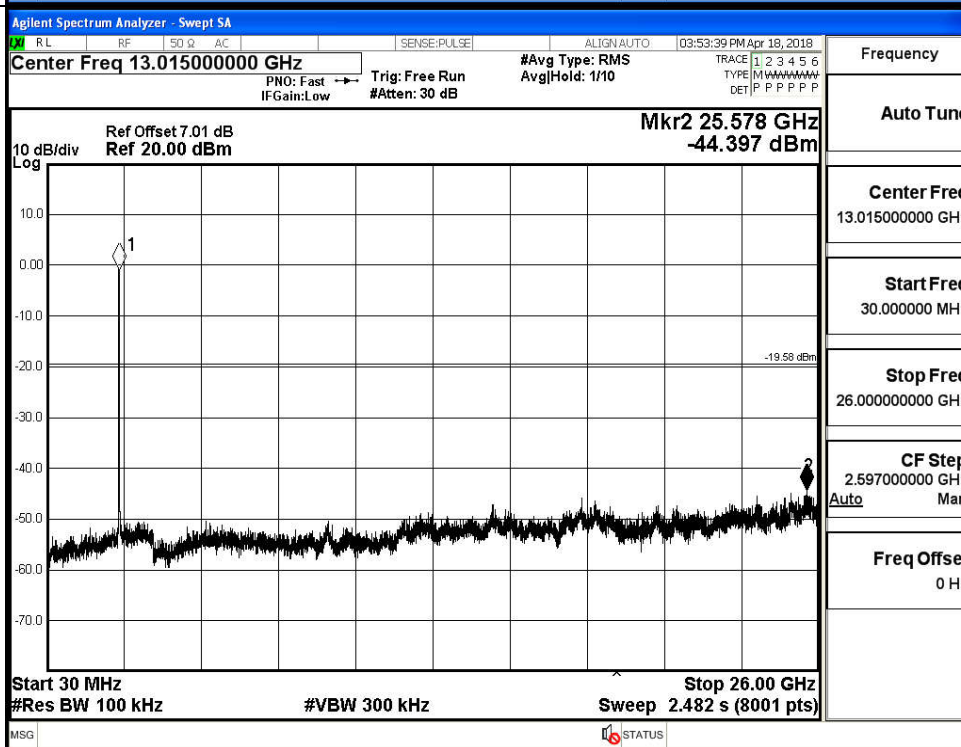
11N20SISO LCH_Graphs

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

11N20SISO_MCH_Graphs

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

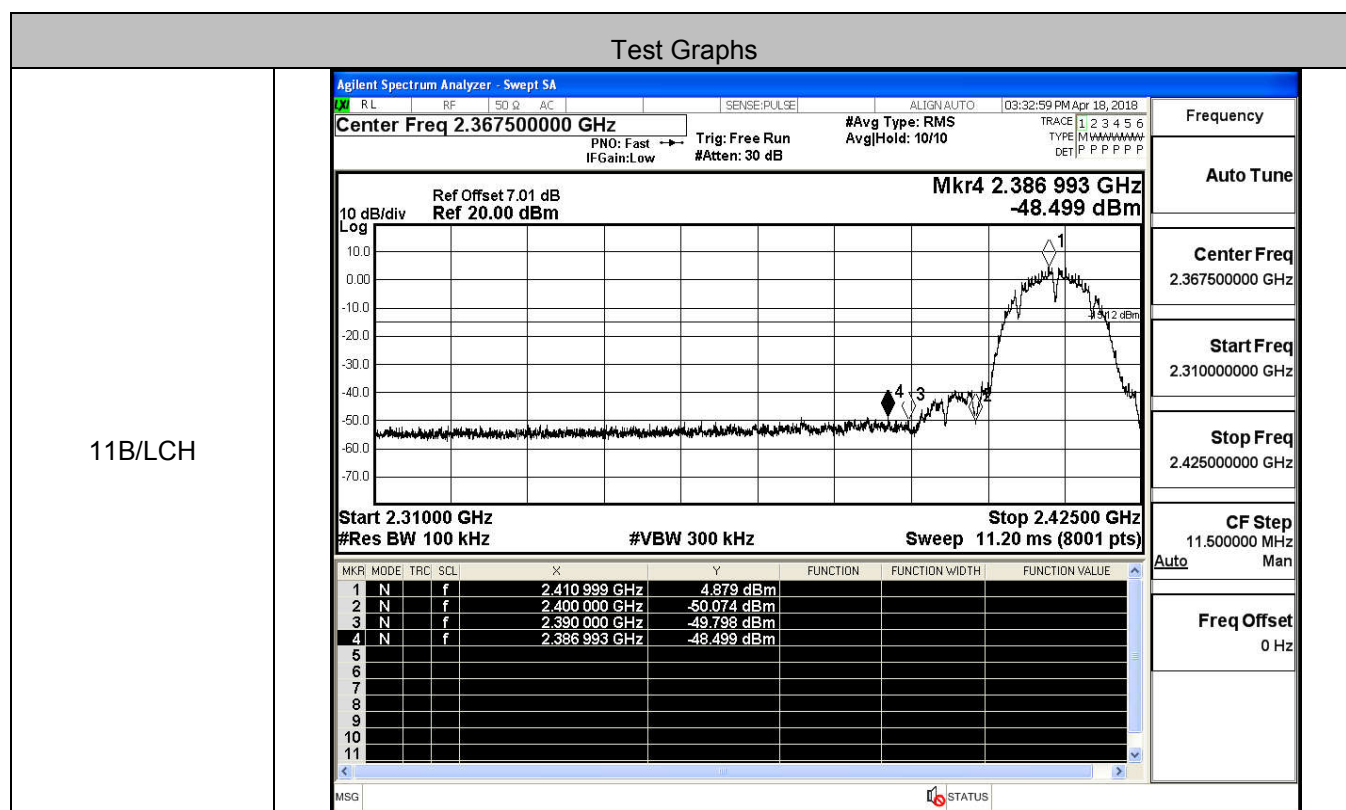
11N20SISO_HCH_Graphs

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

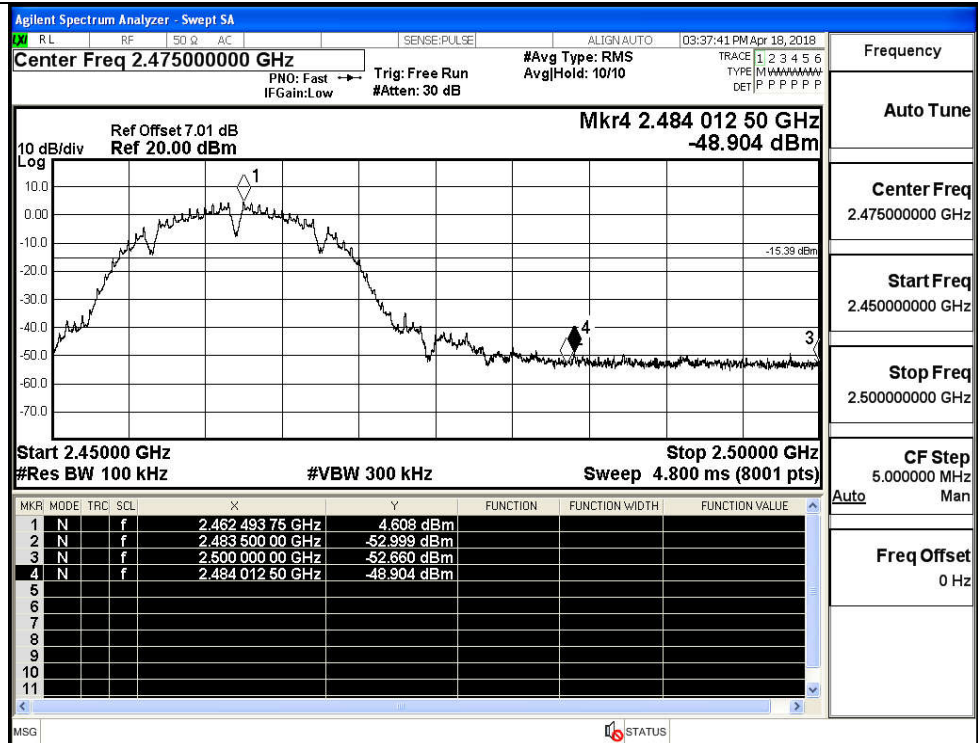
C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.879	-48.499	-15.12	PASS
	HCH	4.608	-48.904	-15.39	PASS
11G	LCH	2.197	-42.346	-17.8	PASS
	HCH	2.073	-38.485	-17.93	PASS
11N20SISO	LCH	0.810	-43.332	-19.19	PASS
	HCH	0.344	-39.963	-19.66	PASS

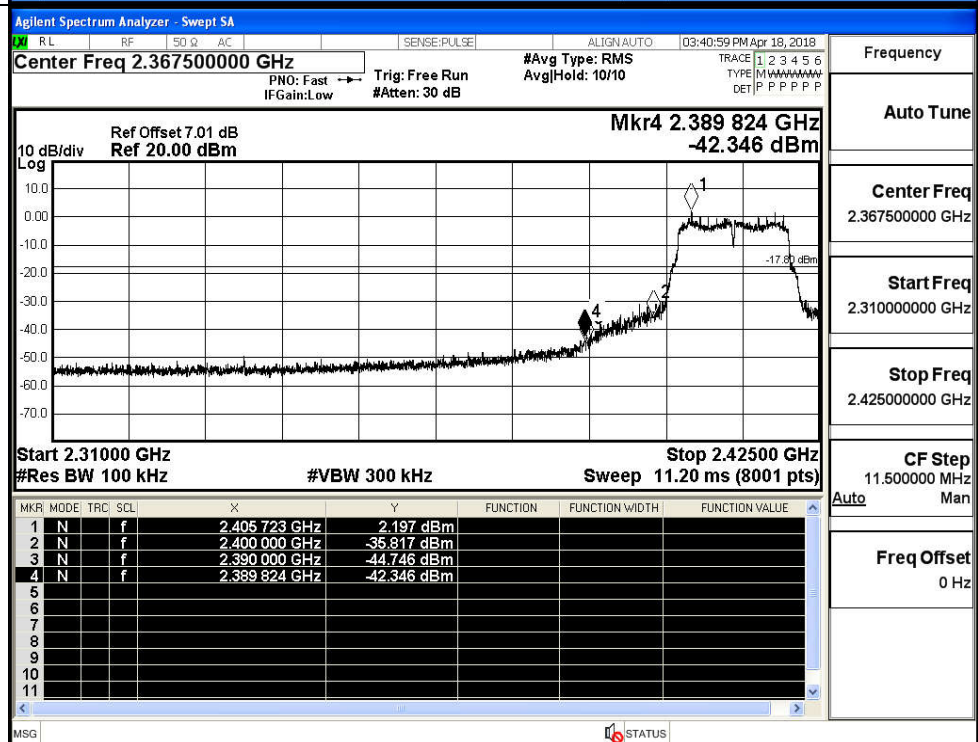
Test Graphs



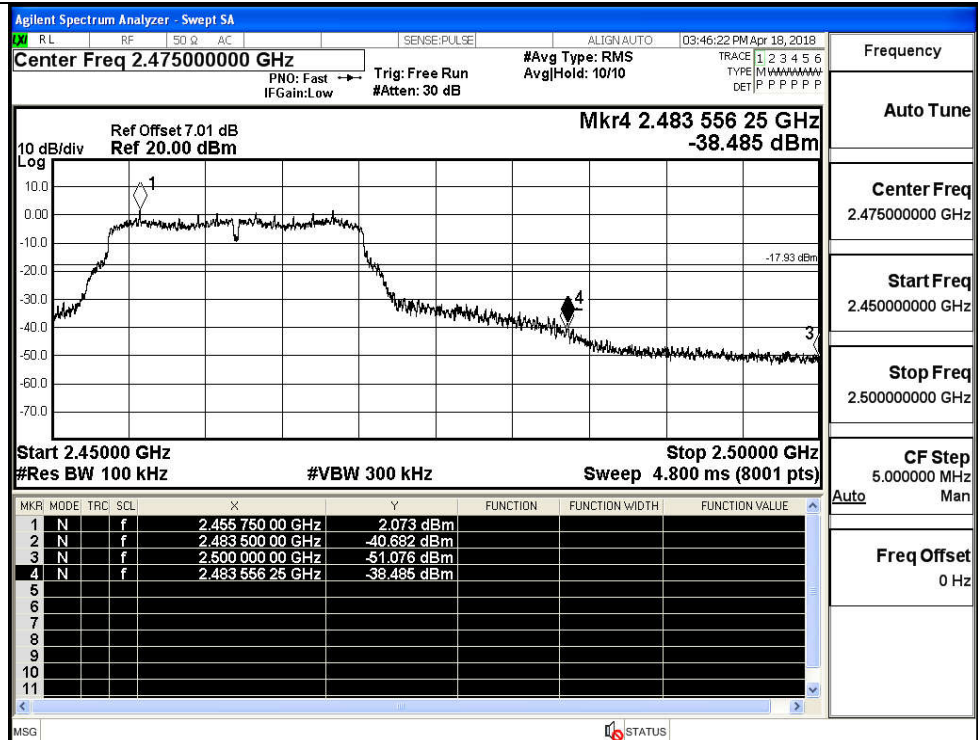
11B/HCH



11G/LCH



11G/HCH



11N20SISO/LCH

