

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smartphone

Trade Mark: NSPRE

Test Model: NX-20PRO1

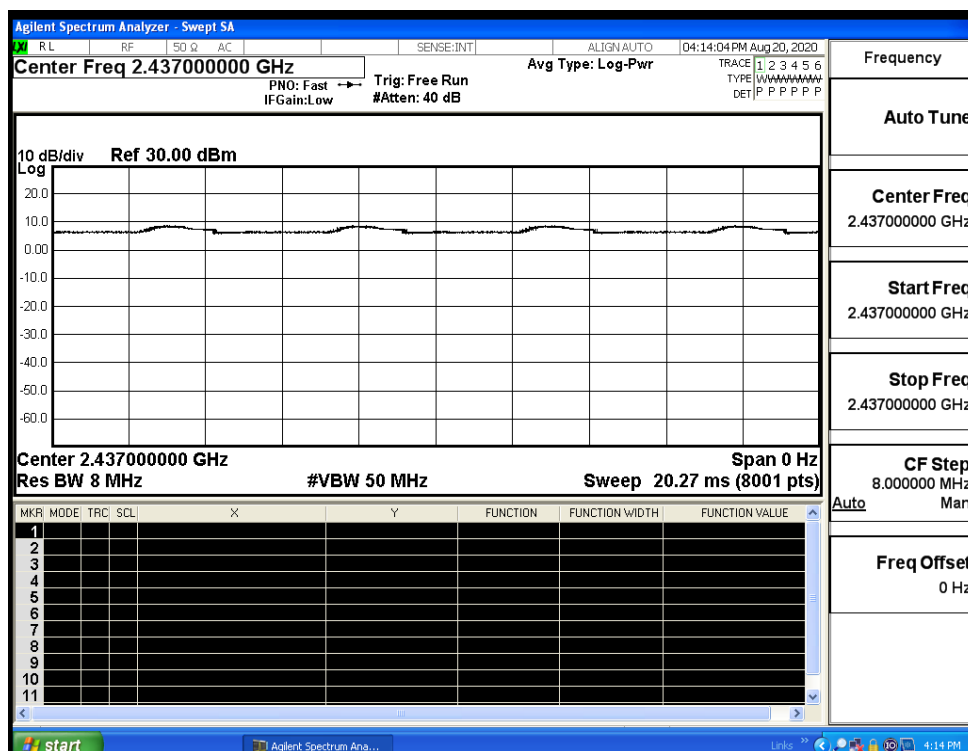
Environmental Conditions

Temperature:	23.9° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

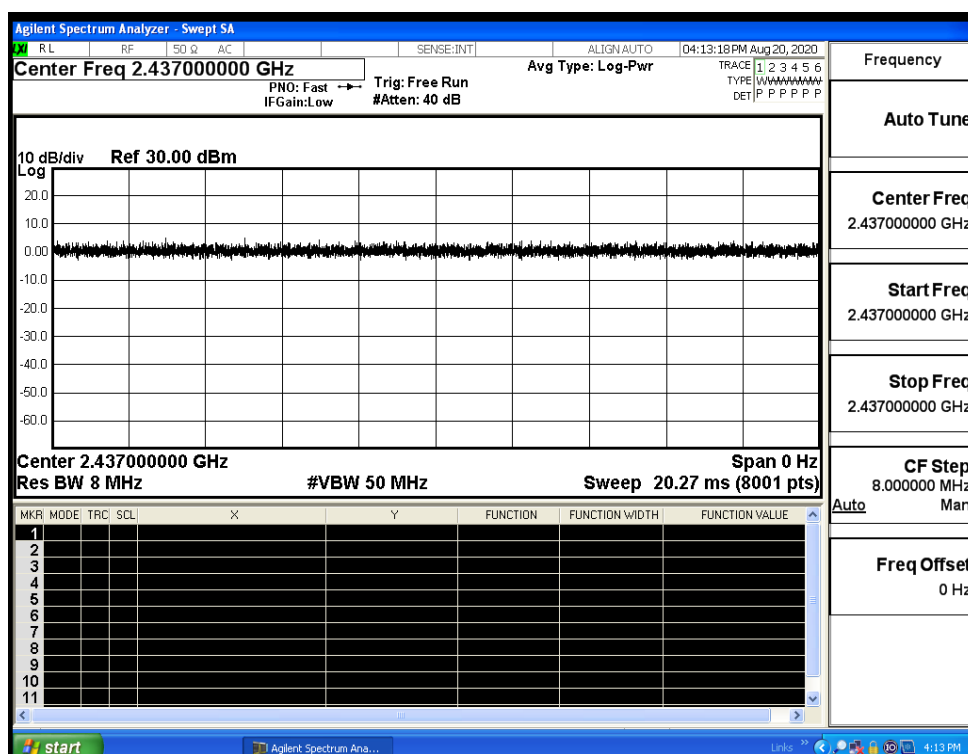
C.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20	2437	Ant1	100	PASS

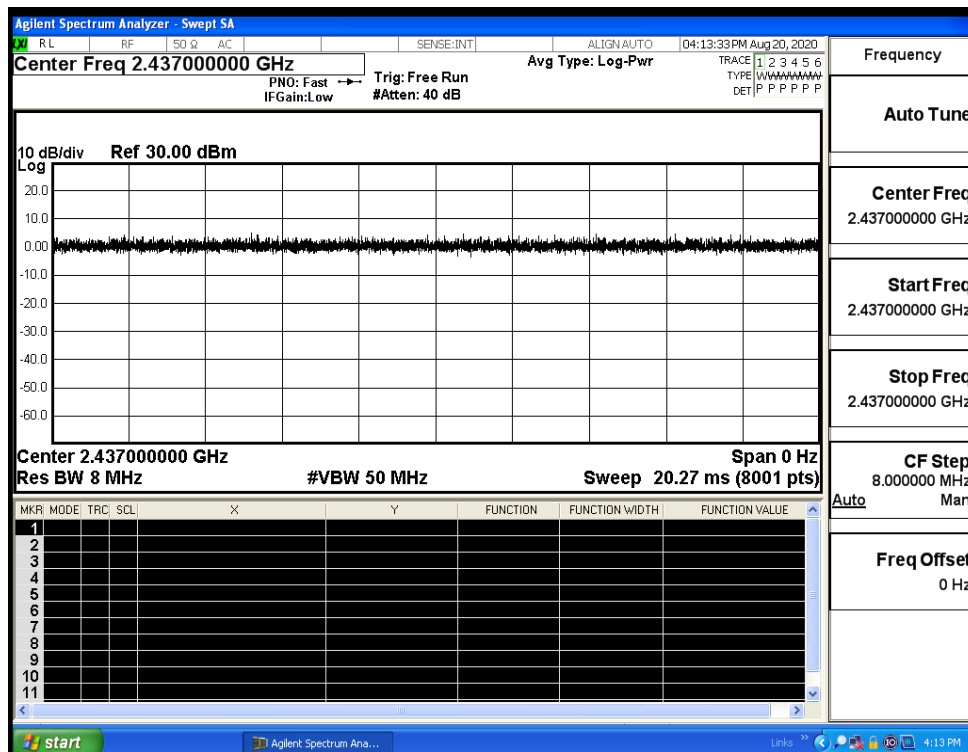
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20_2437_Ant1



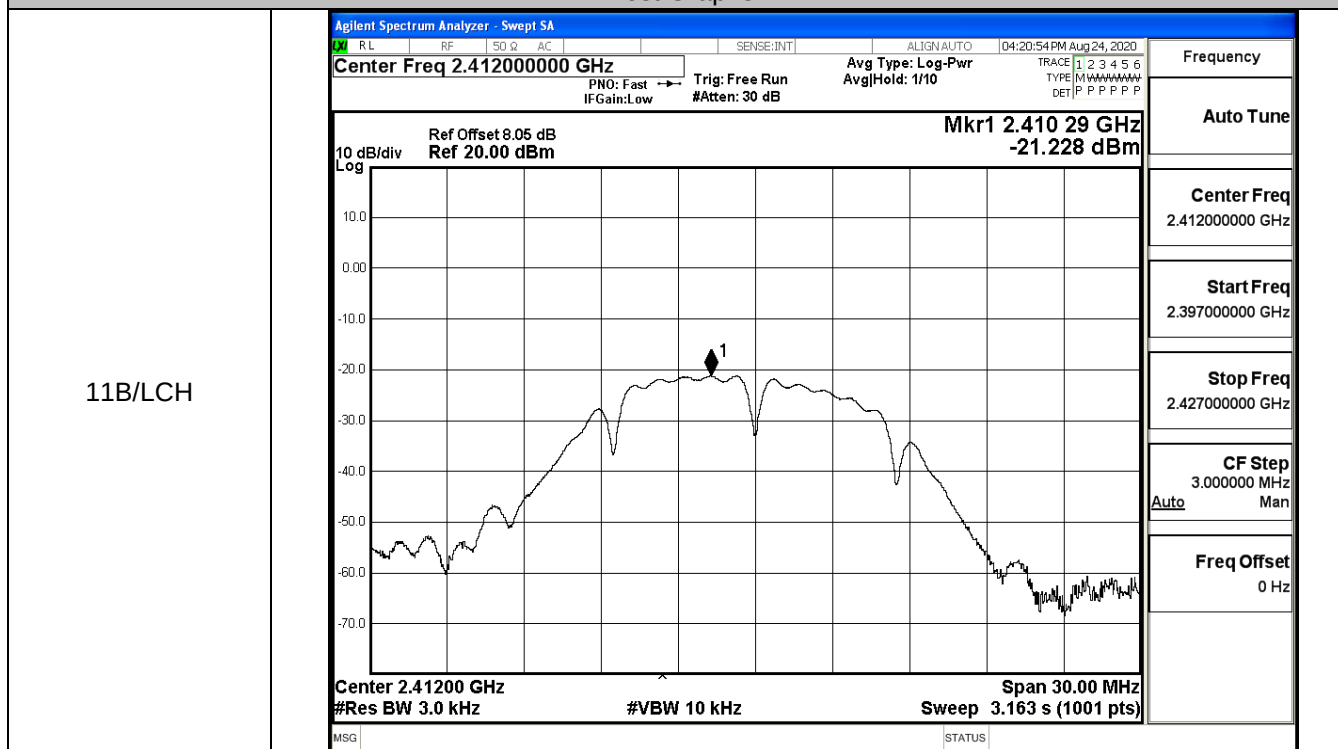
C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	10.57	30	PASS
	MCH	10.30	30	PASS
	HCH	10.62	30	PASS
11G	LCH	12.15	30	PASS
	MCH	11.75	30	PASS
	HCH	13.36	30	PASS
11N20	LCH	12.92	30	PASS
	MCH	11.86	30	PASS
	HCH	13.00	30	PASS

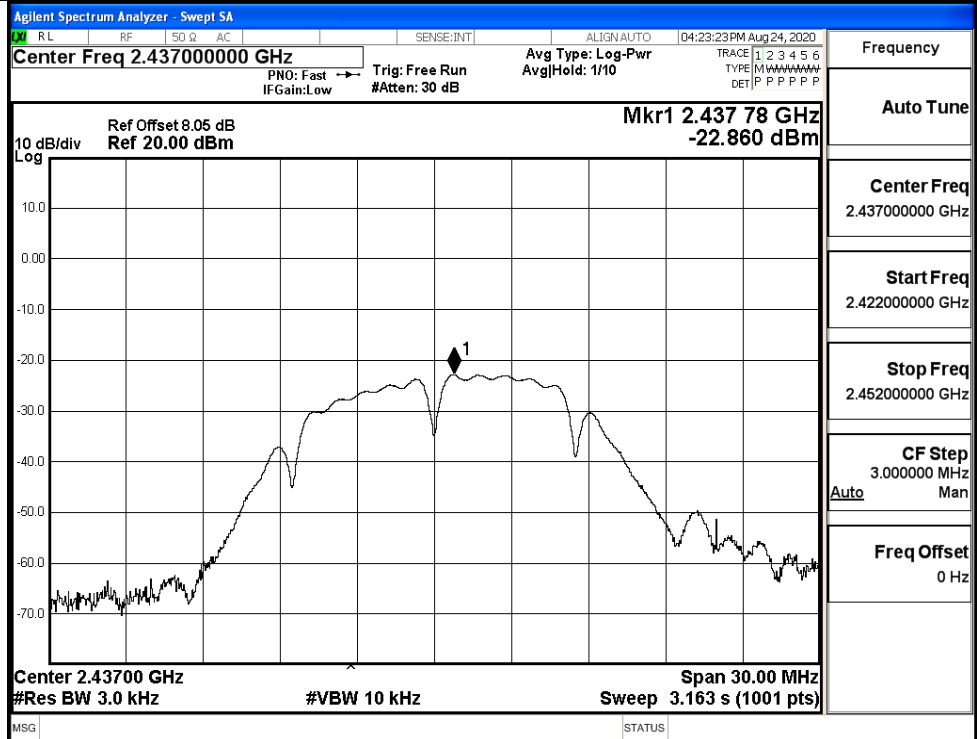
C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-21.228	8	PASS
	MCH	-22.860	8	PASS
	HCH	-21.276	8	PASS
11G	LCH	-20.425	8	PASS
	MCH	-20.704	8	PASS
	HCH	-19.596	8	PASS
11N20	LCH	-18.615	8	PASS
	MCH	-20.061	8	PASS
	HCH	-18.474	8	PASS

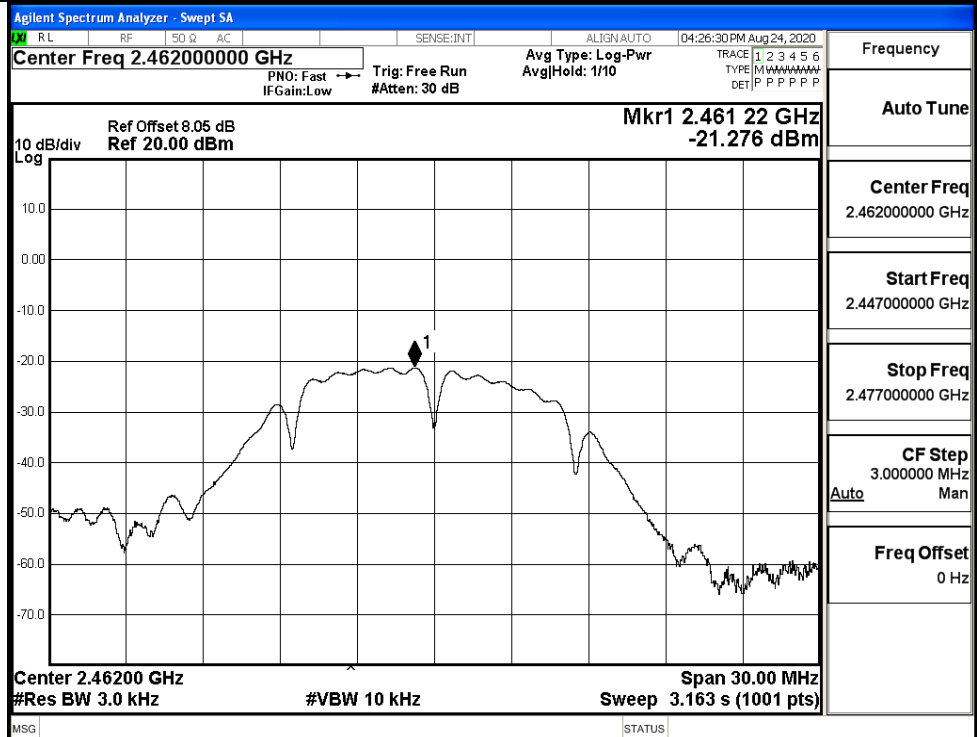
Test Graphs



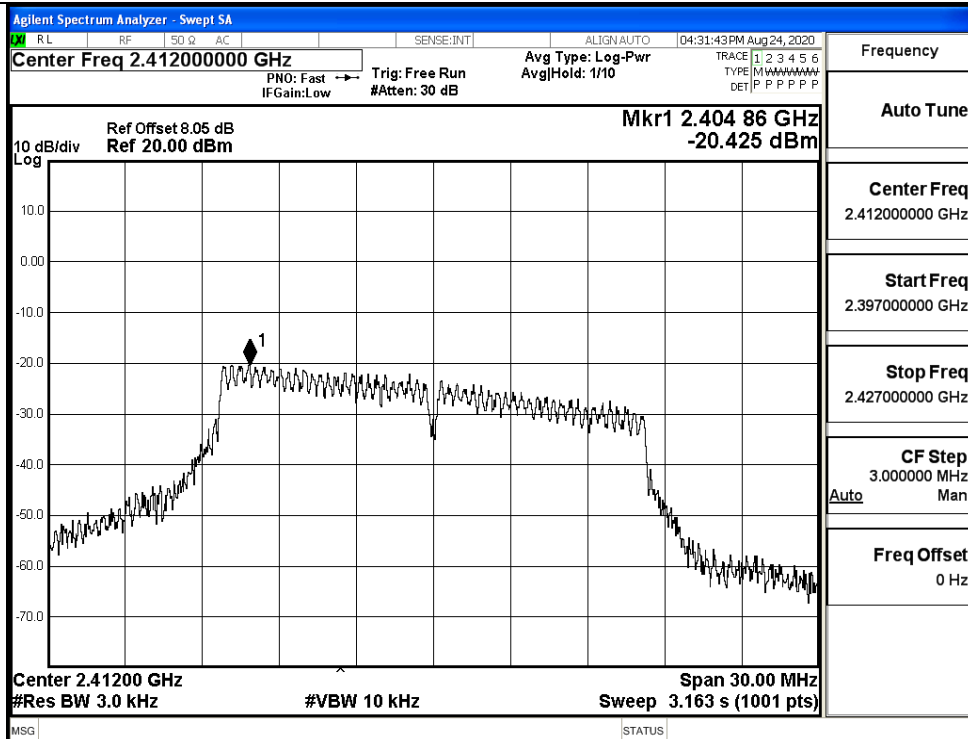
11B/MCH



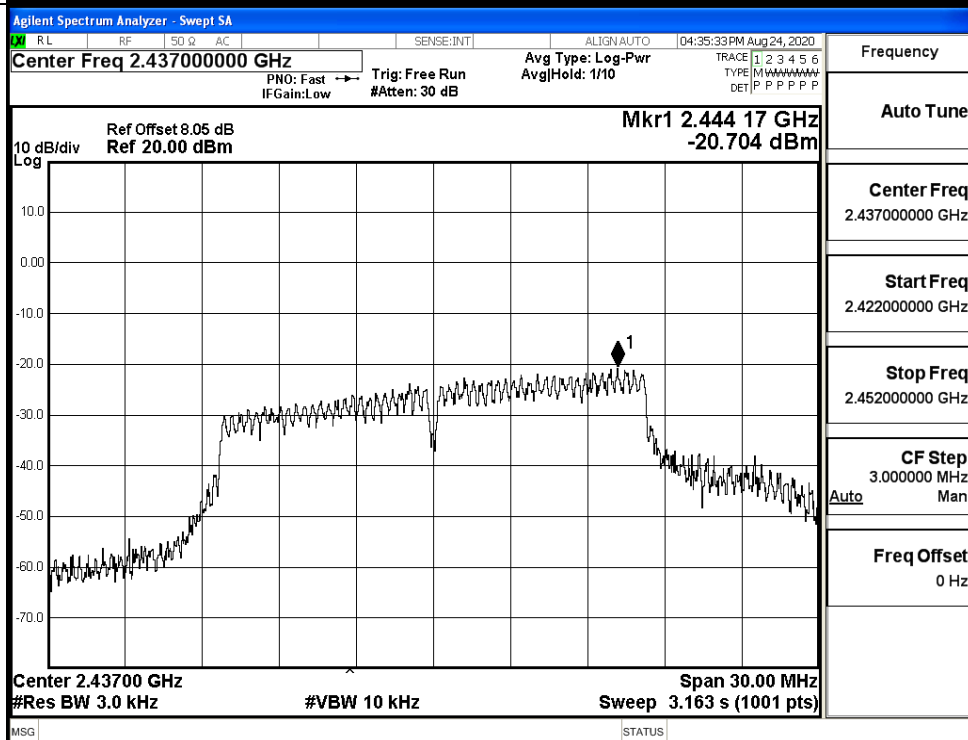
11B/HCH



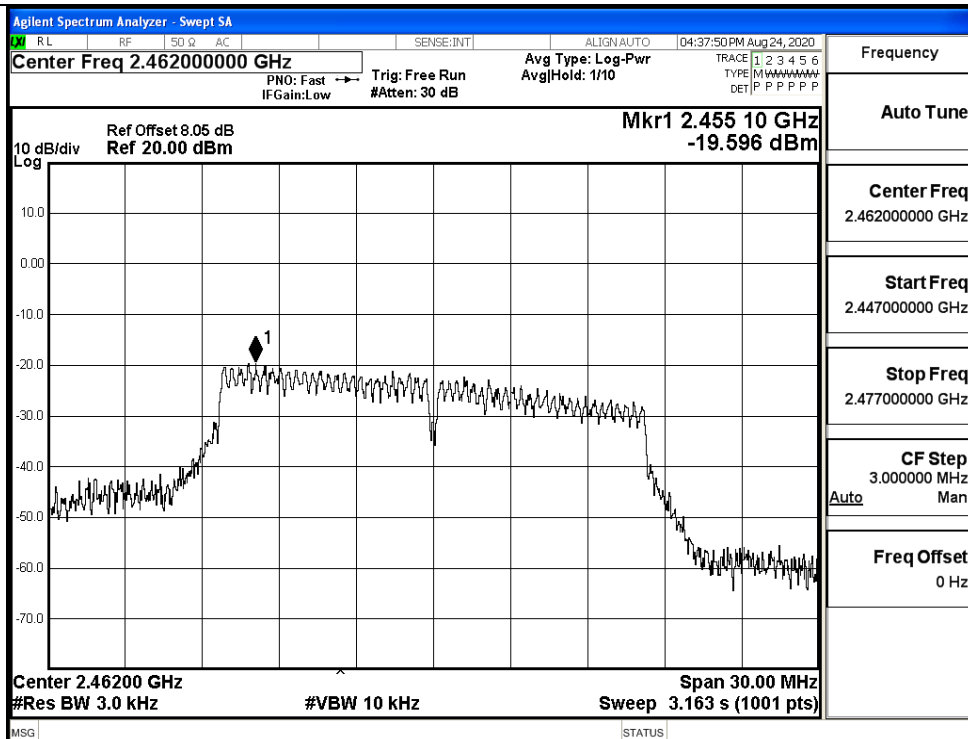
11G/LCH



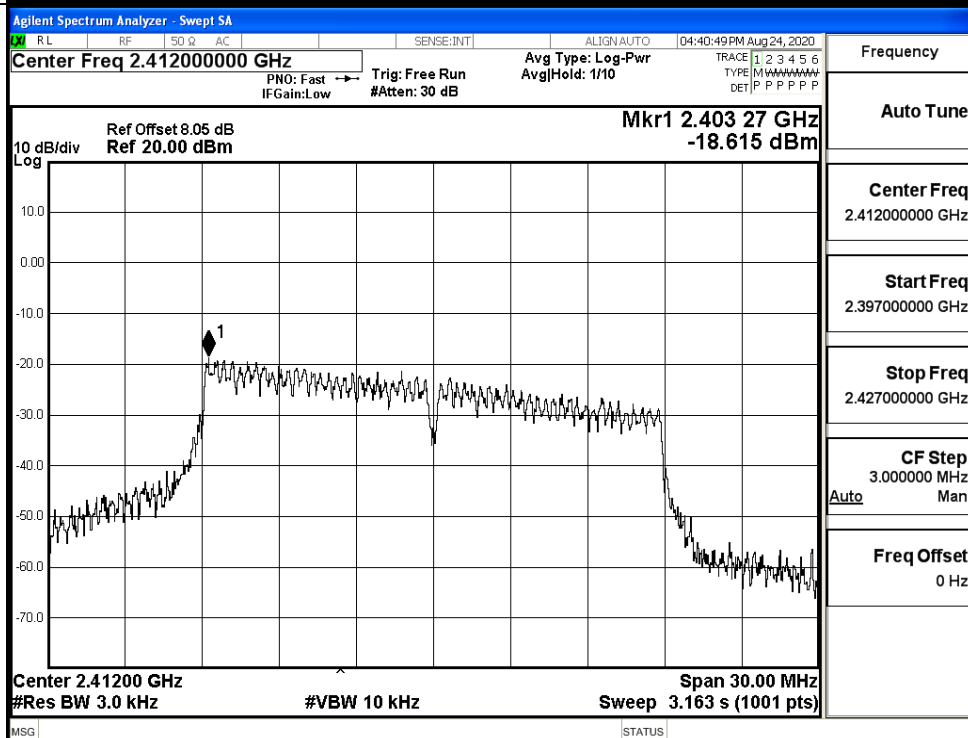
11G/MCH



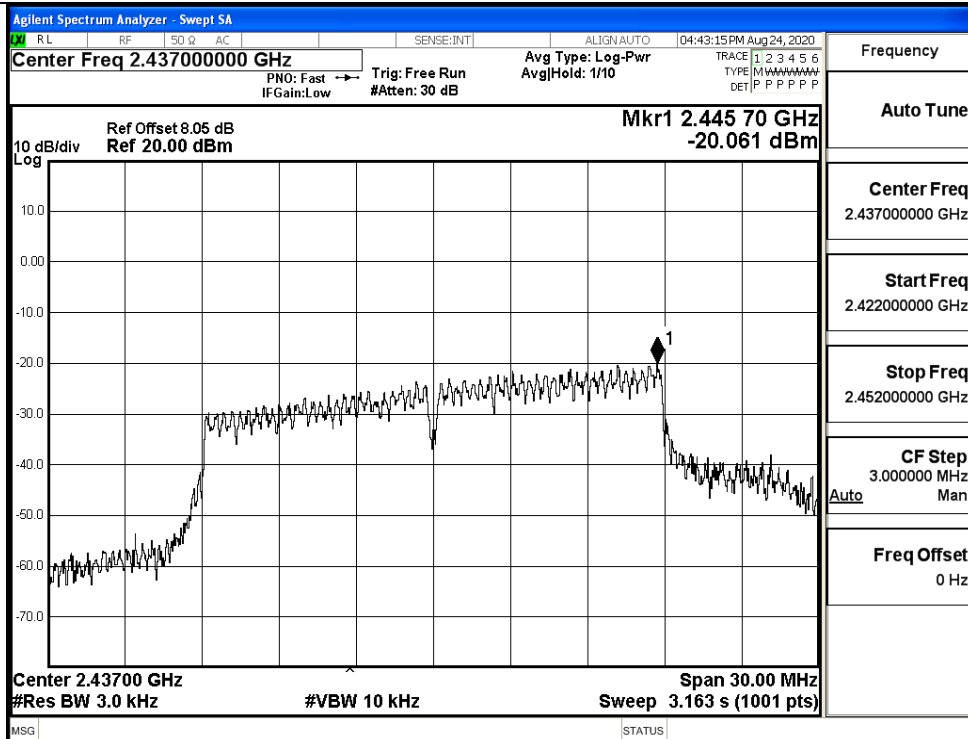
11G/HCH



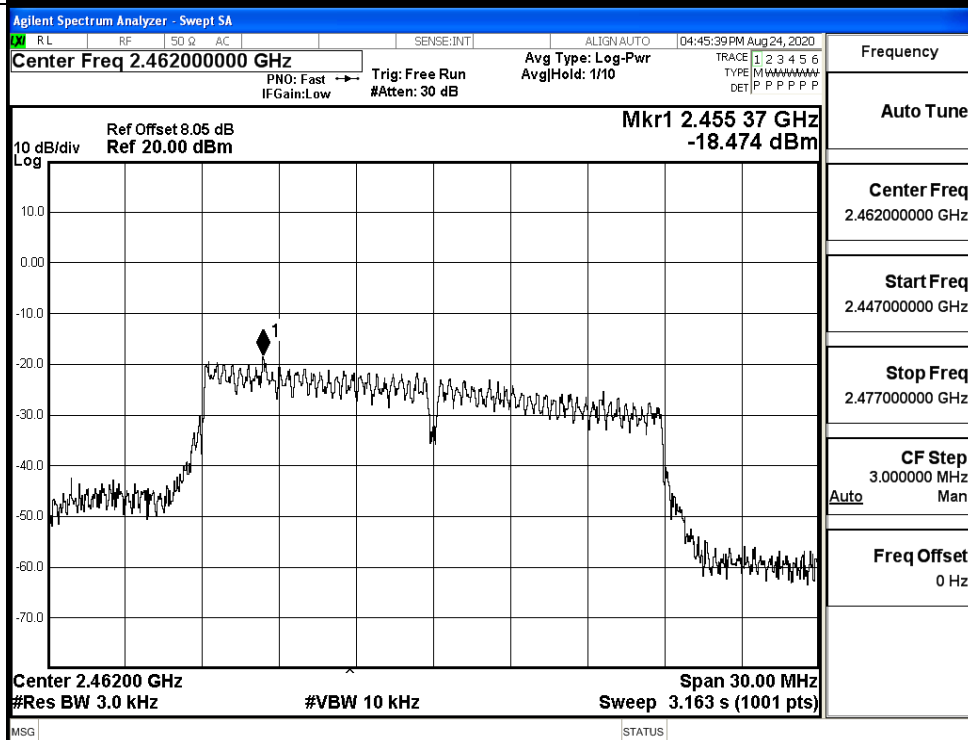
11N20/LCH



11N20/MCH



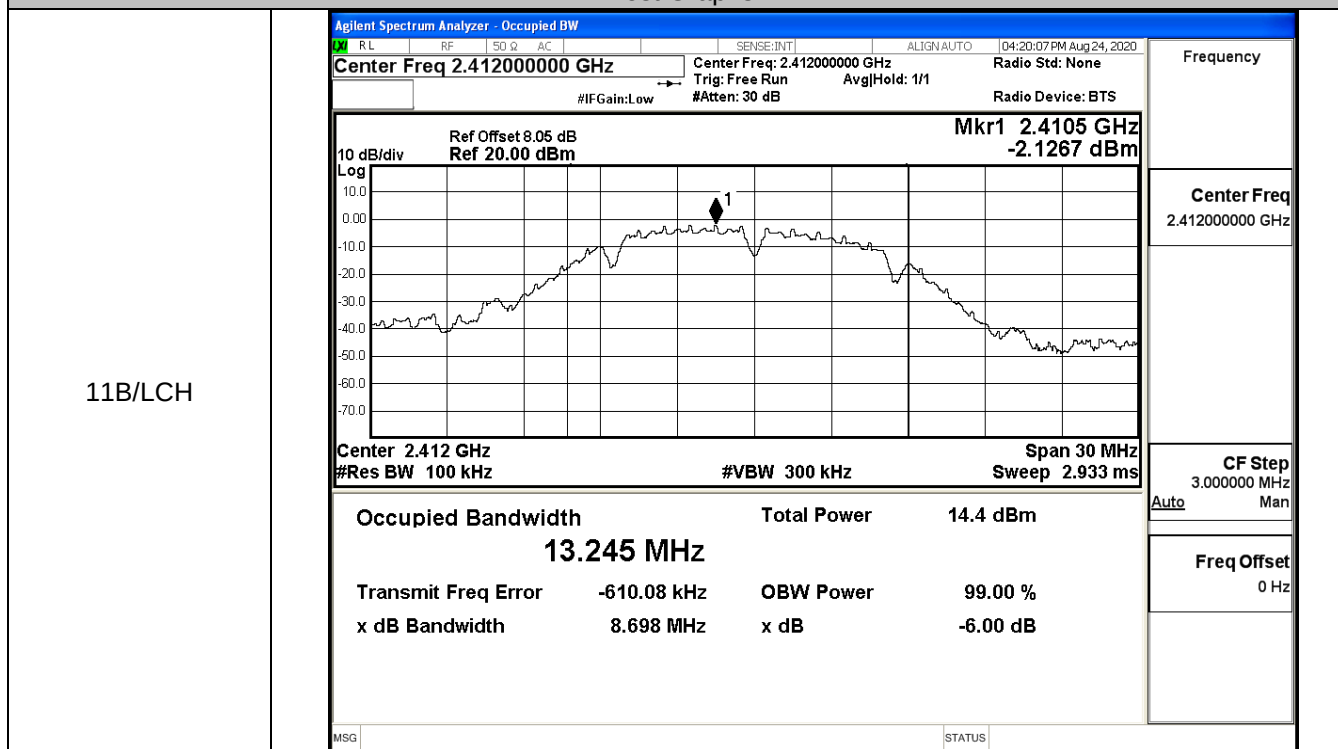
11N20/HCH



C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.698	≥ 0.5	PASS
	MCH	8.694	≥ 0.5	PASS
	HCH	8.684	≥ 0.5	PASS
11G	LCH	11.49	≥ 0.5	PASS
	MCH	11.67	≥ 0.5	PASS
	HCH	13.60	≥ 0.5	PASS
11N20	LCH	12.73	≥ 0.5	PASS
	MCH	11.87	≥ 0.5	PASS
	HCH	12.74	≥ 0.5	PASS

Test Graphs



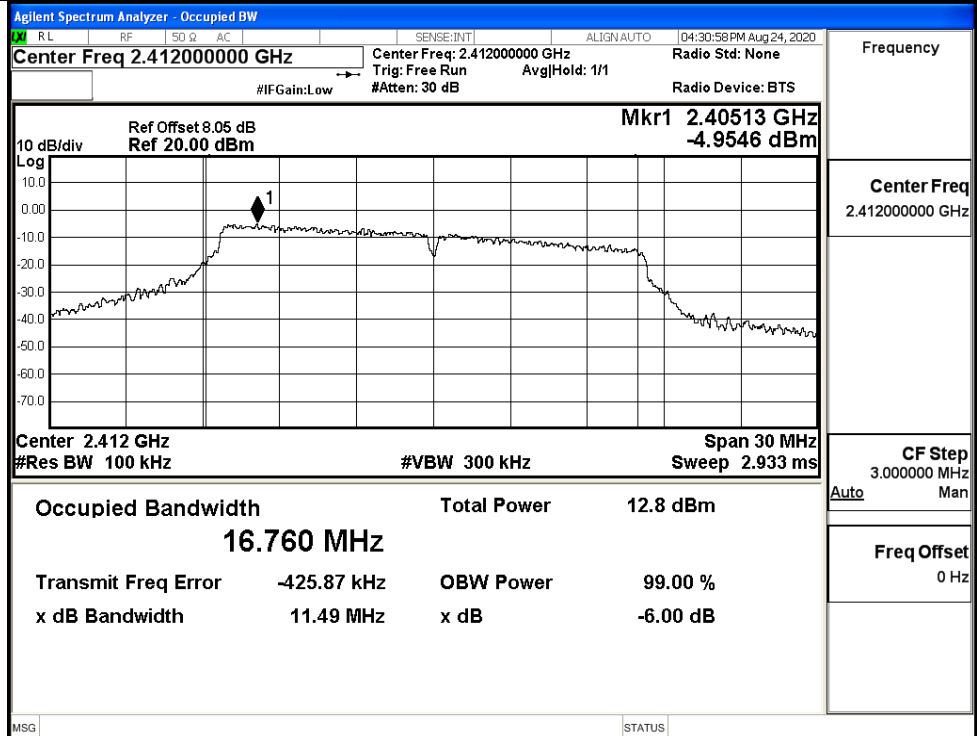
11B/MCH



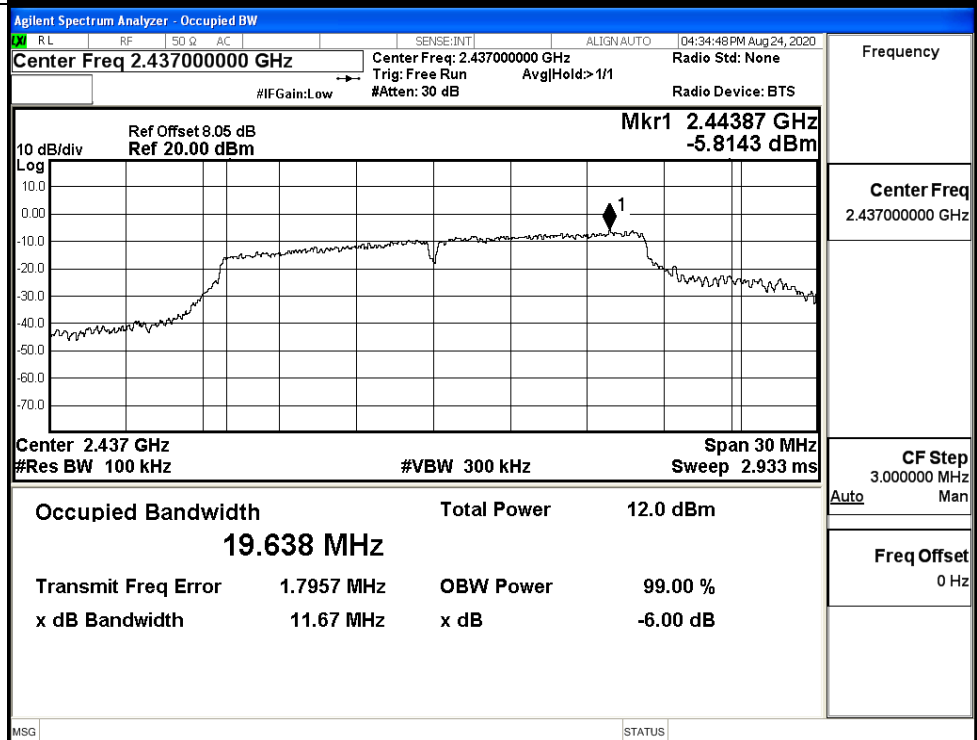
11B/HCH



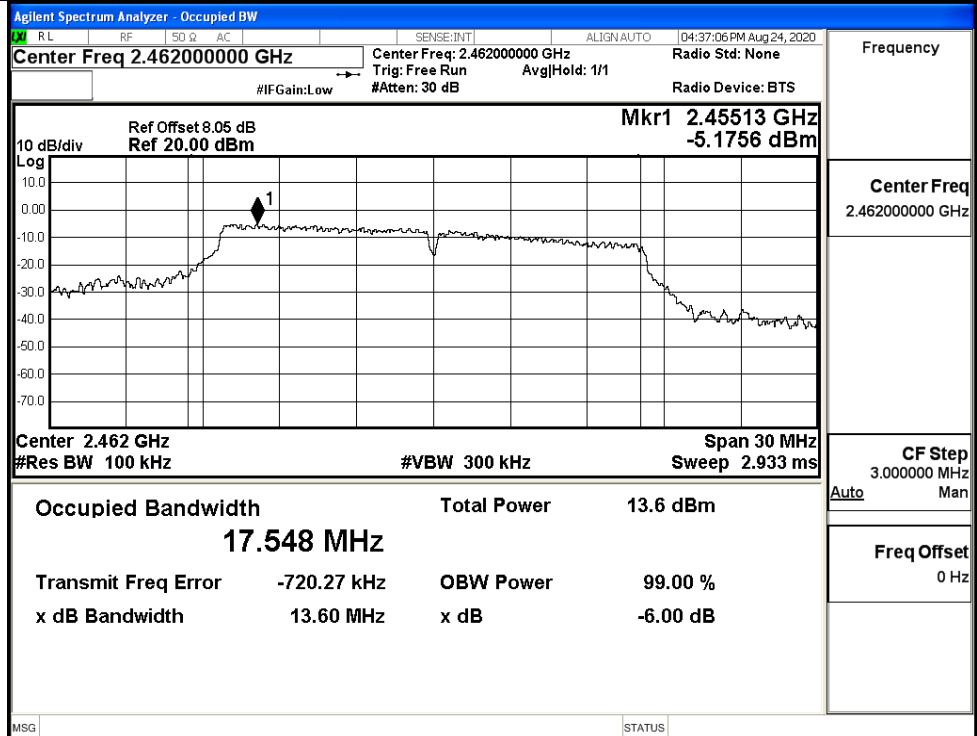
11G/LCH



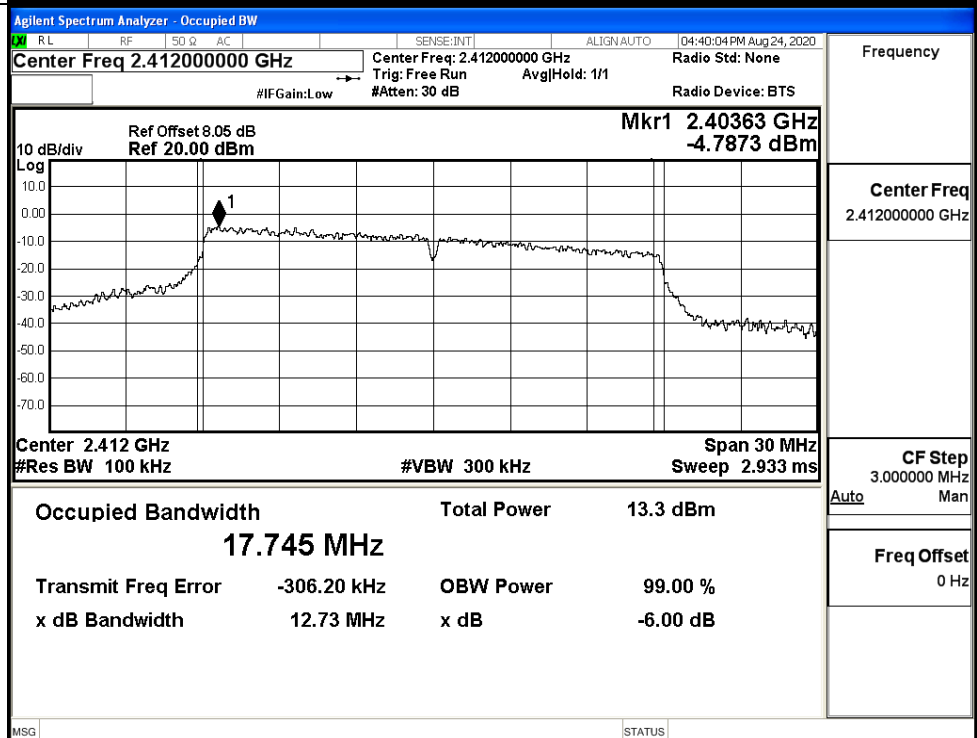
11G/MCH



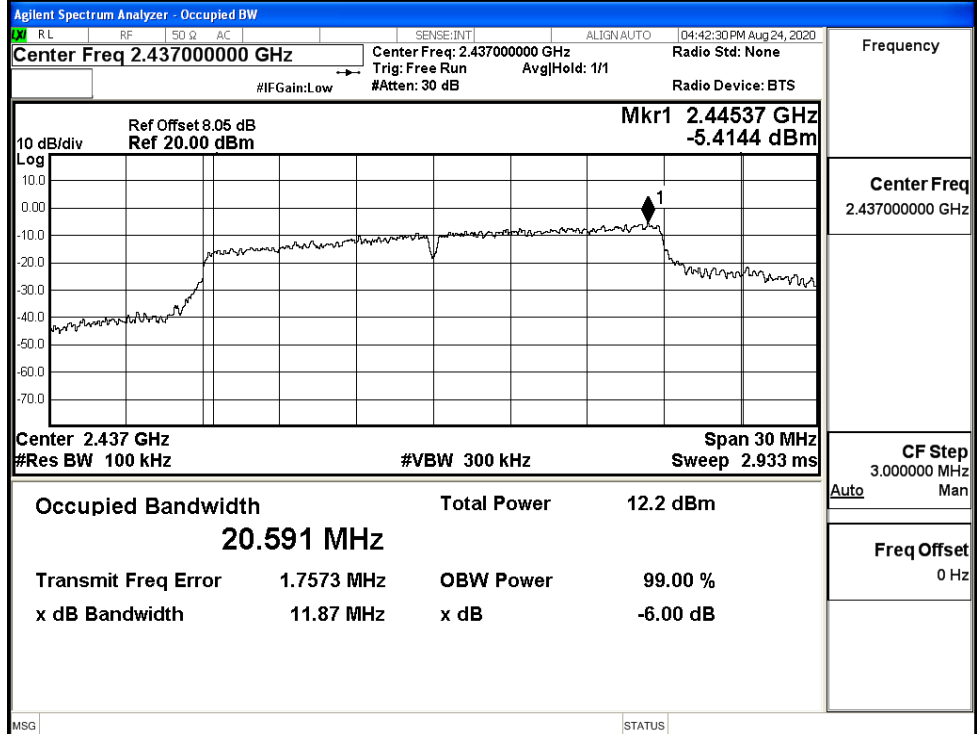
11G/HCH



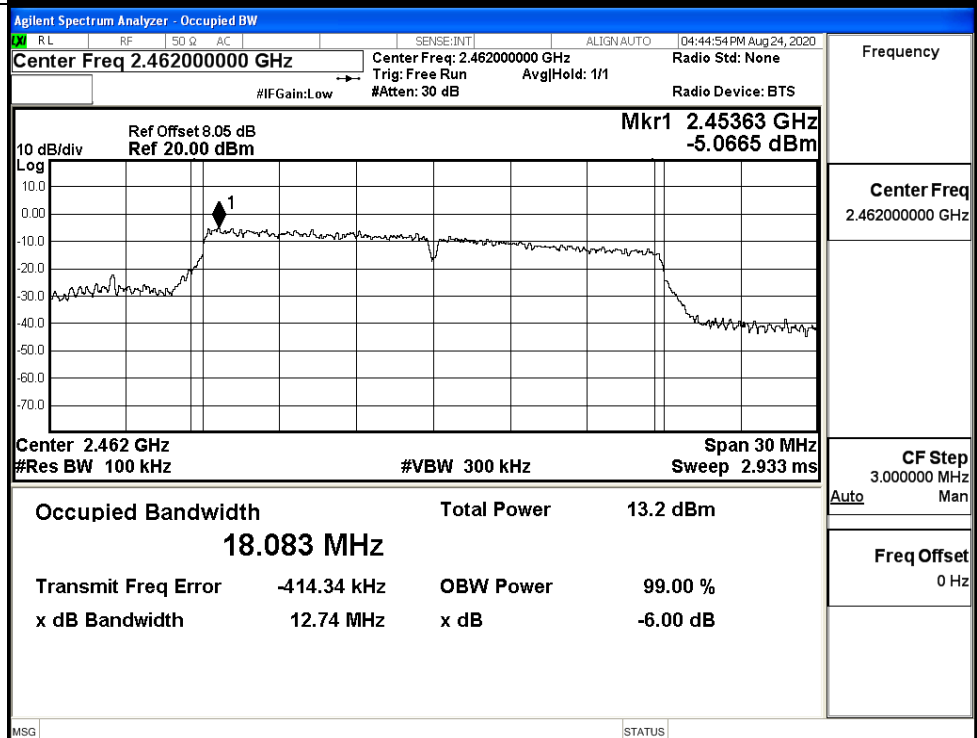
11N20/LCH



11N20/MCH



11N20/HCH

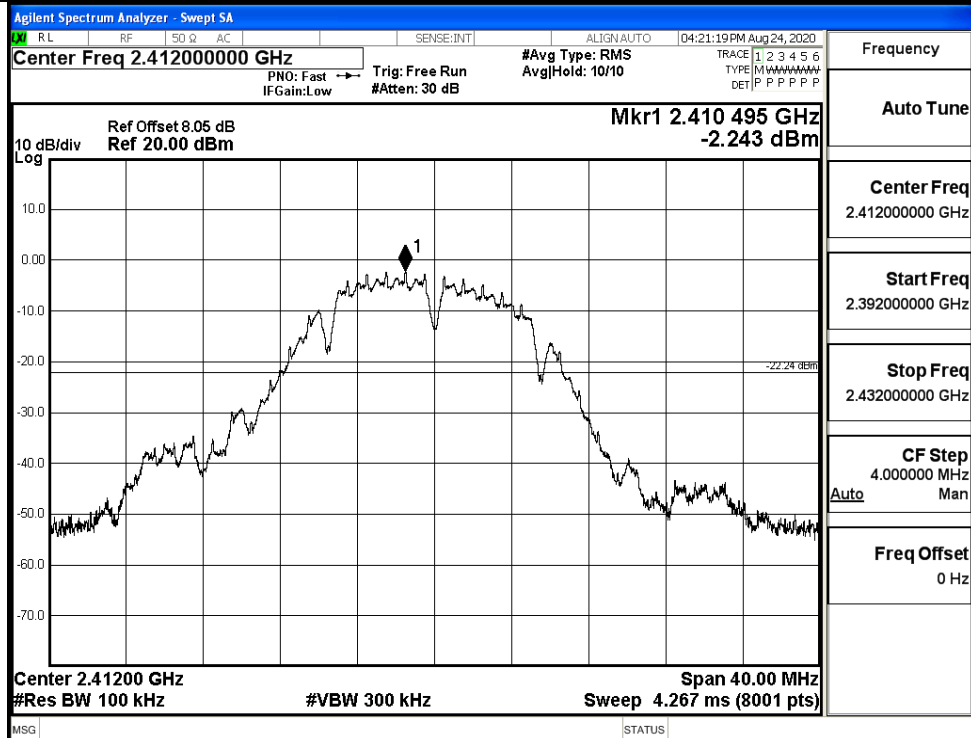


C.5 RF Conducted Spurious Emissions

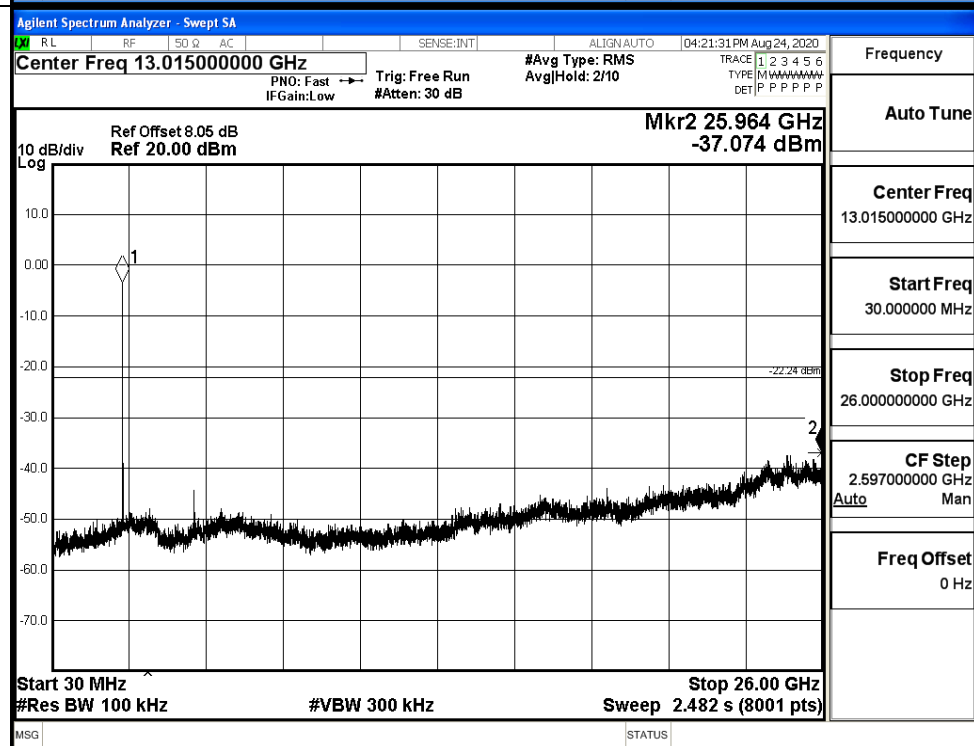
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.243	-37.074	-22.243	PASS
	MCH	-3.946	-37.915	-23.946	PASS
	HCH	-2.368	-38.290	-22.368	PASS
11G	LCH	-5.444	-38.388	-25.444	PASS
	MCH	-6.052	-37.801	-26.052	PASS
	HCH	-5.483	-37.624	-25.483	PASS
11N20	LCH	-4.861	-38.377	-24.861	PASS
	MCH	-5.925	-38.616	-25.925	PASS
	HCH	-5.473	-38.916	-25.473	PASS

11B LCH Graphs

Pref/11B/LCH

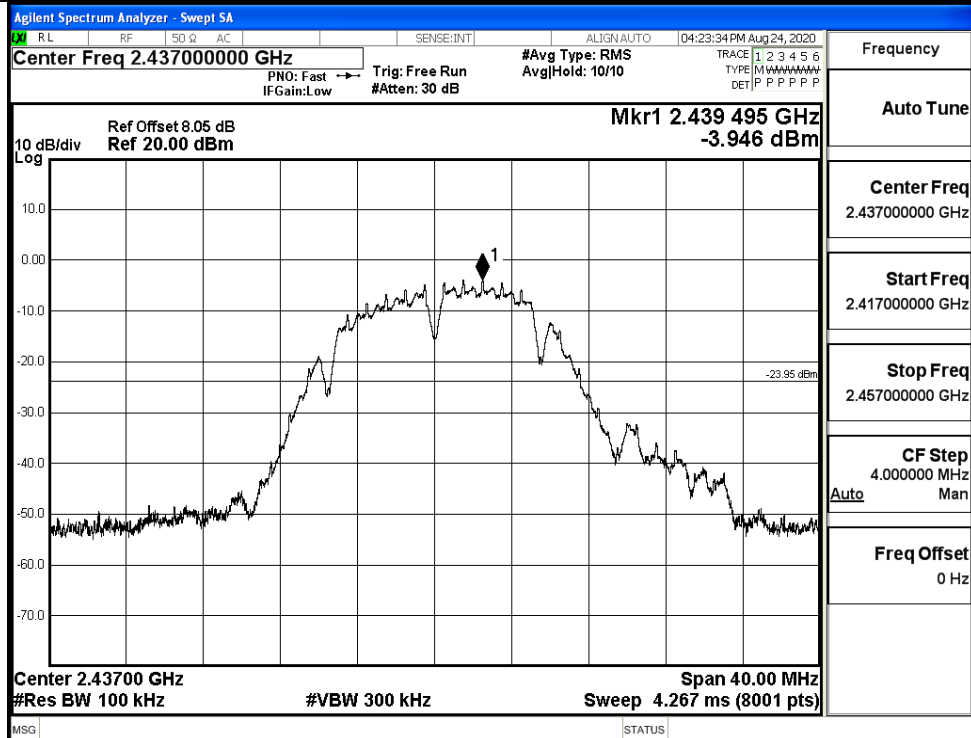


Puw/11B/LCH

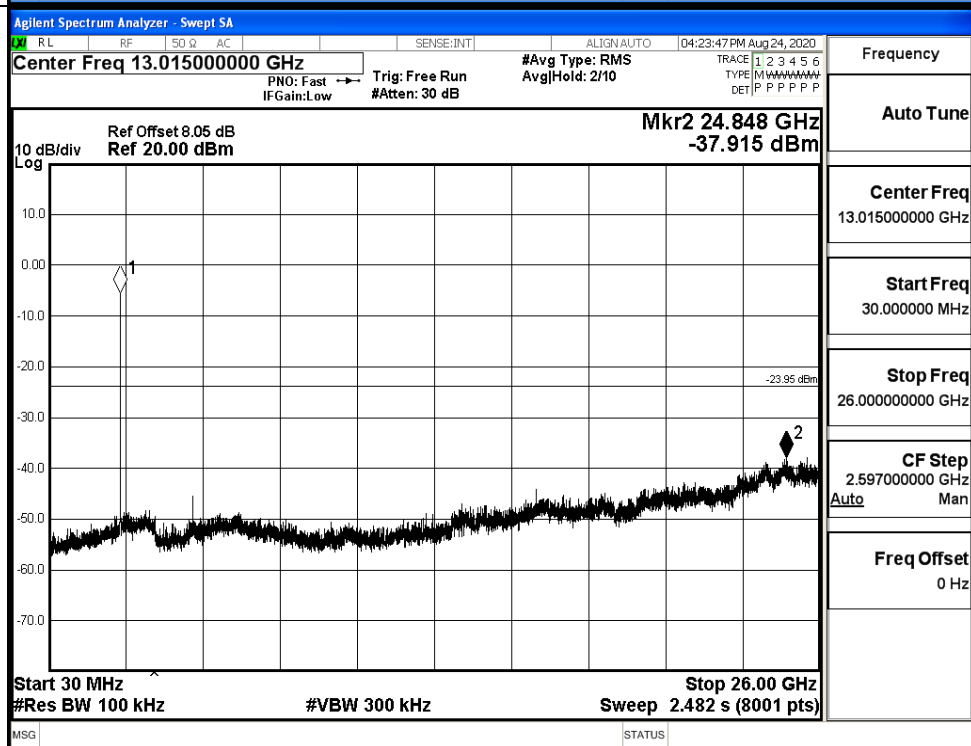


11B MCH Graphs

Pref/11B/MCH

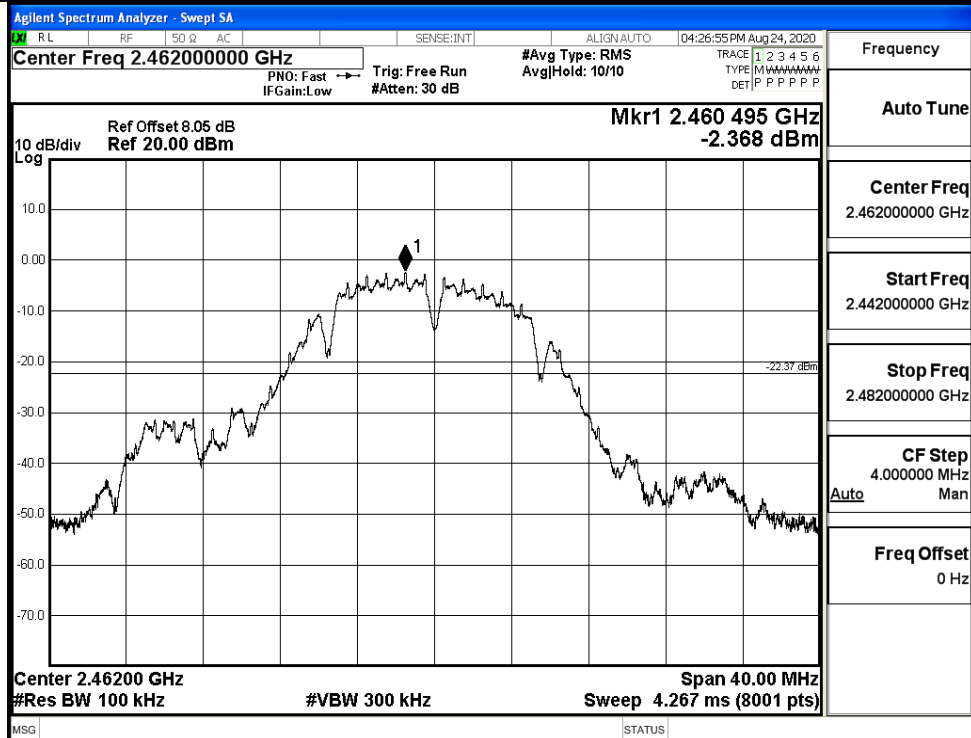


Puw/11B/MCH



11B HCH Graphs

Pref/11B/HCH

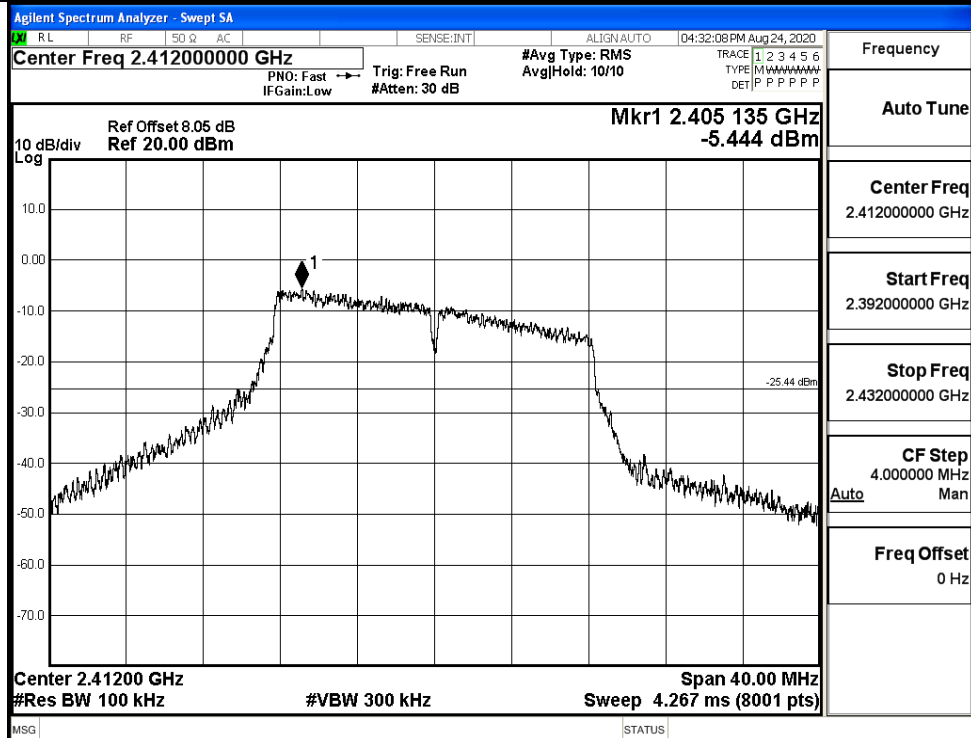


Puw/11B/HCH

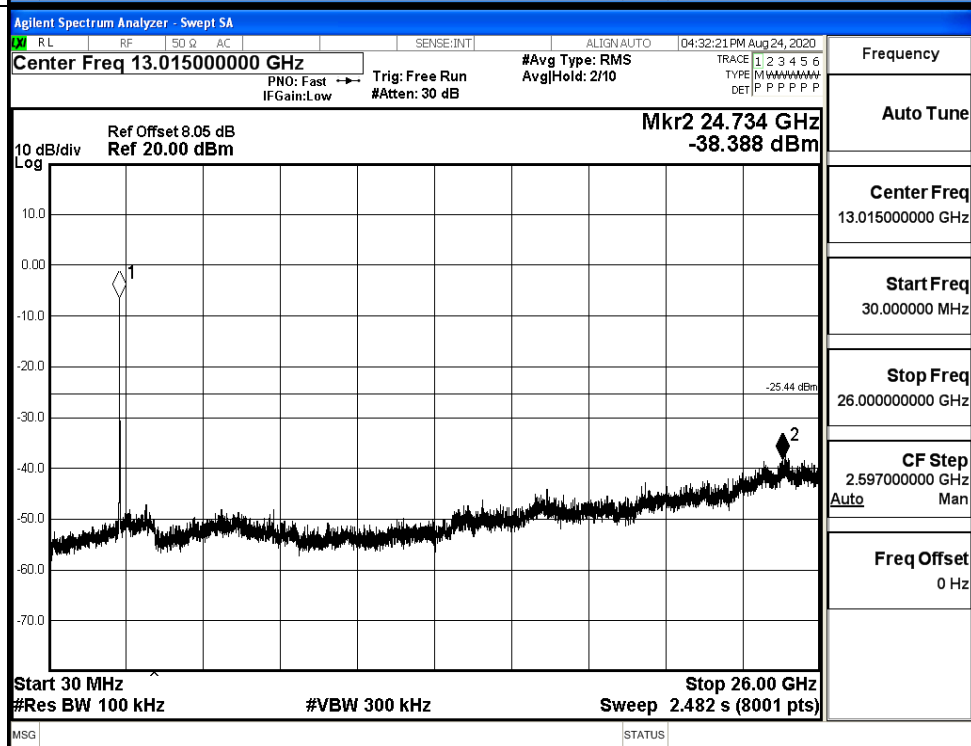


11G_LCH_Graphs

Pref/11G/LCH

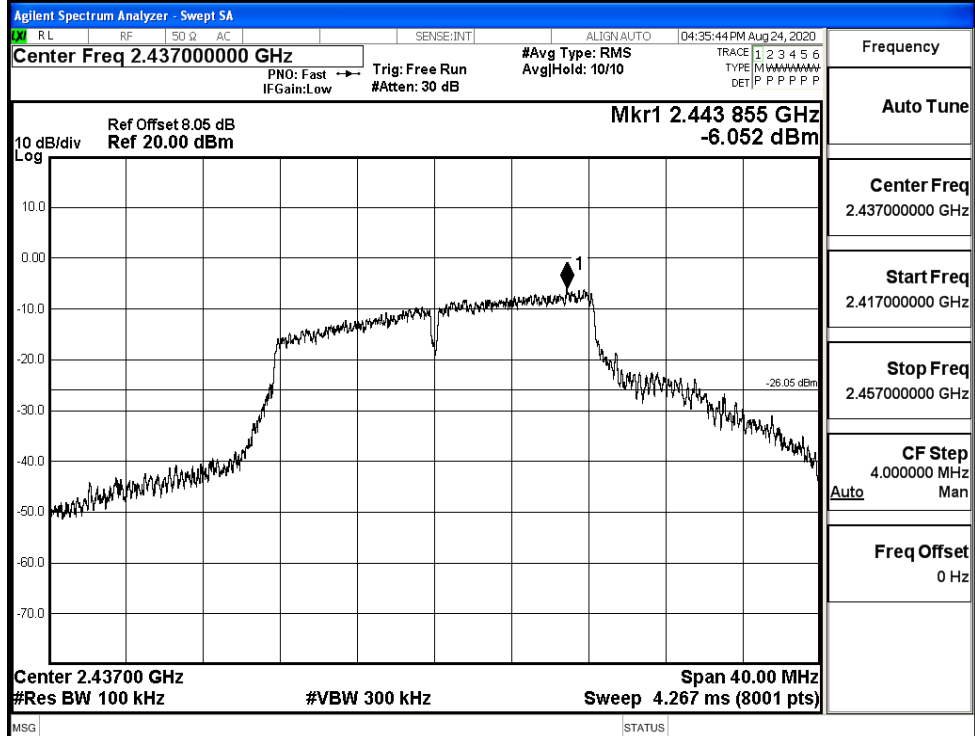


Puw/11G/LCH

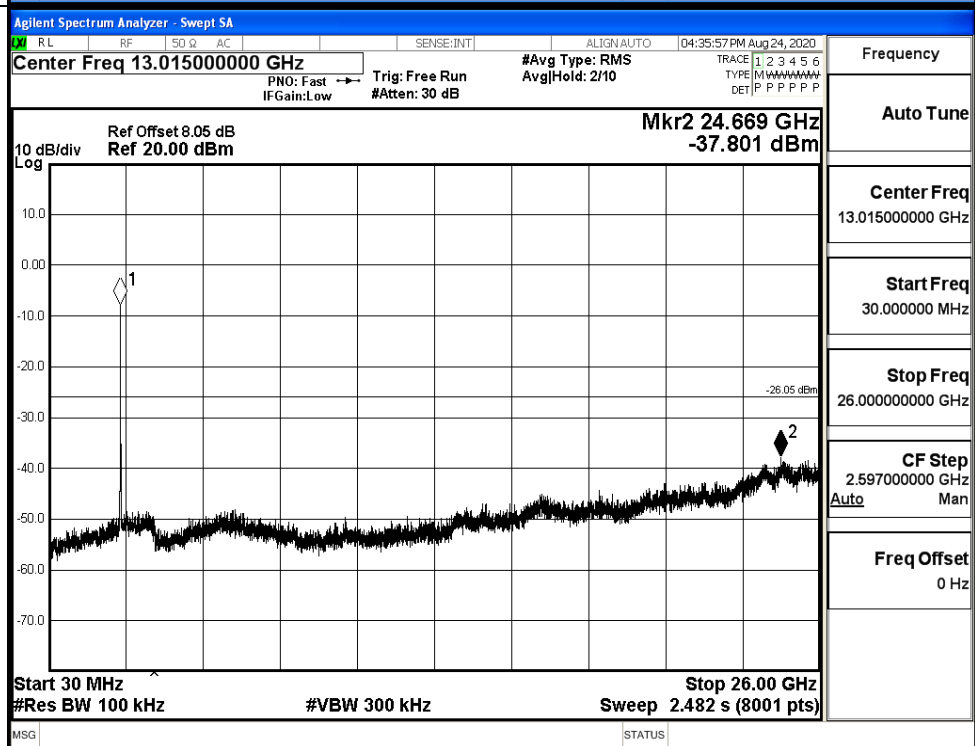


11G MCH Graphs

Pref/11G/MCH

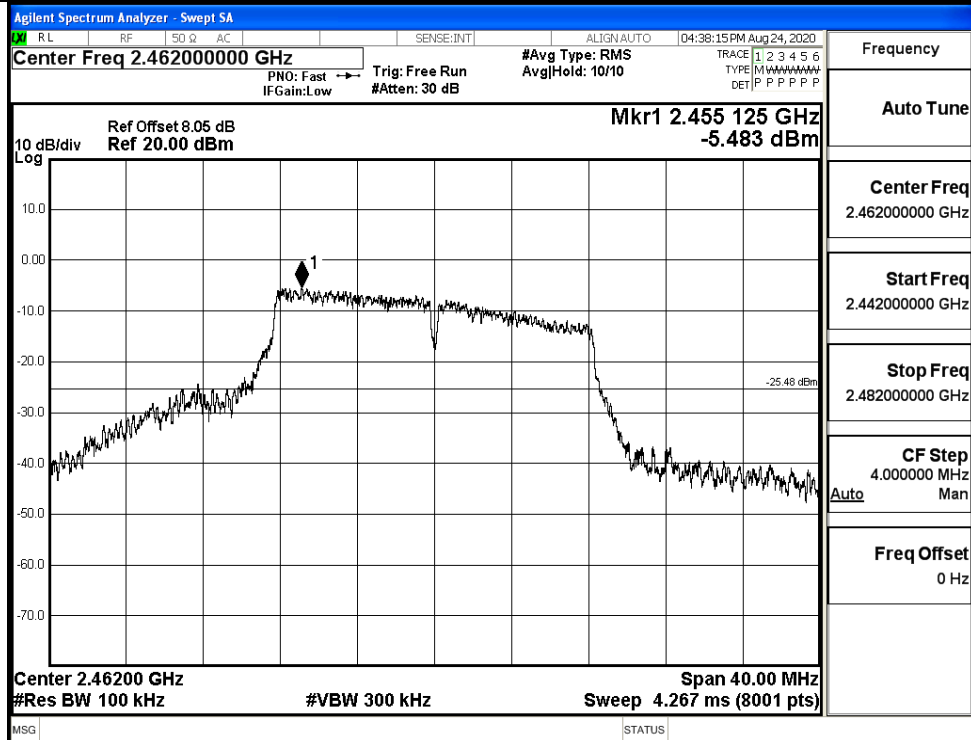


Puw/11G/MCH

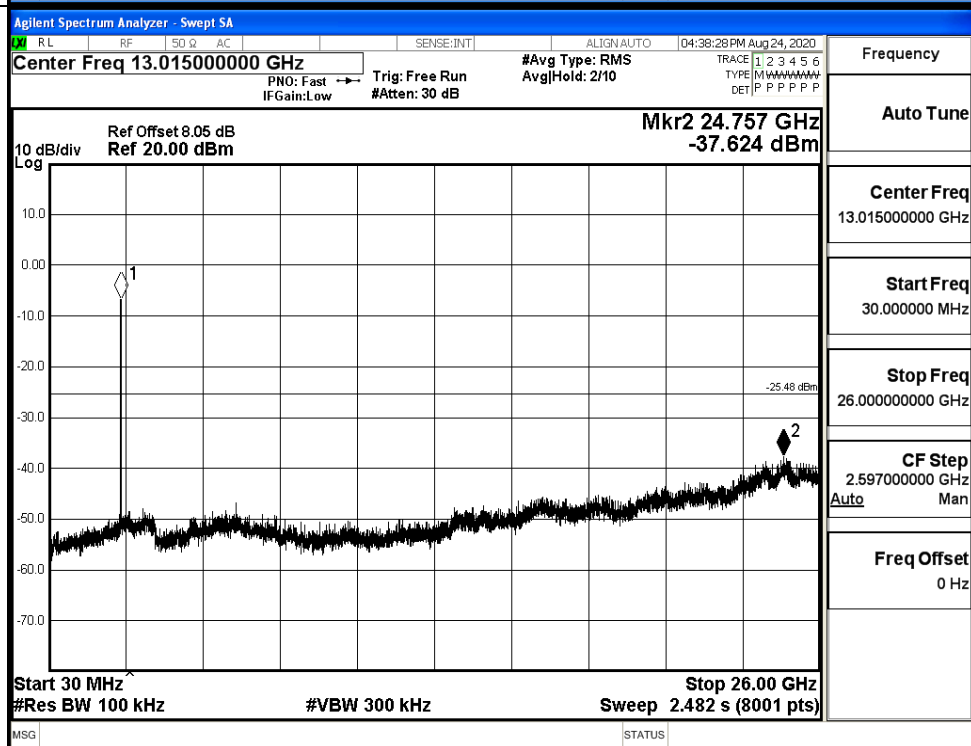


11G HCH Graphs

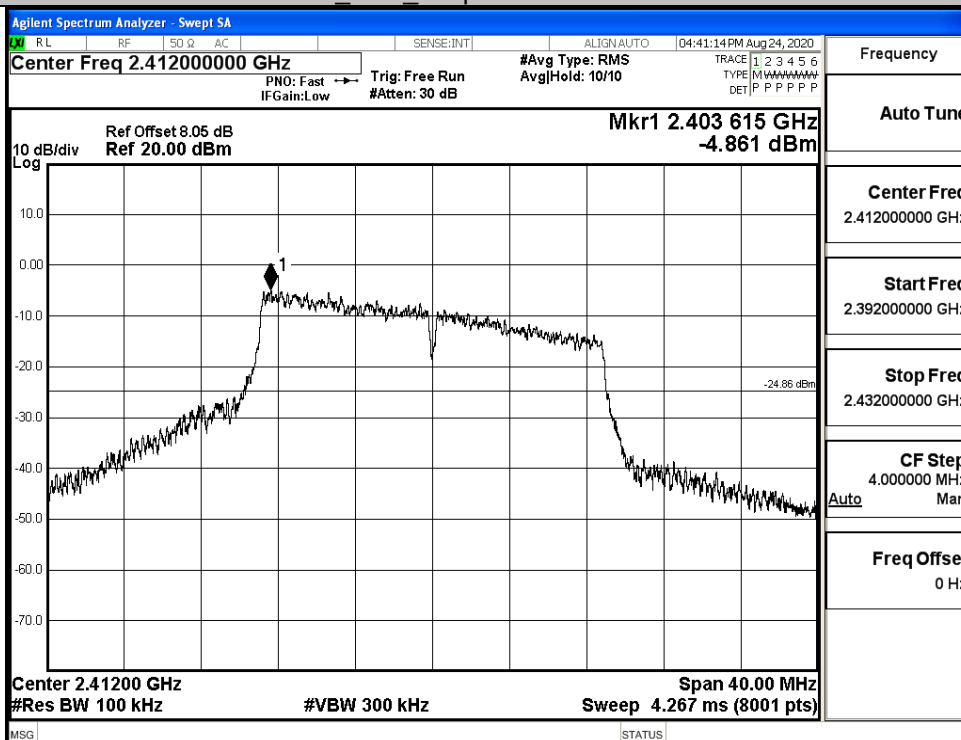
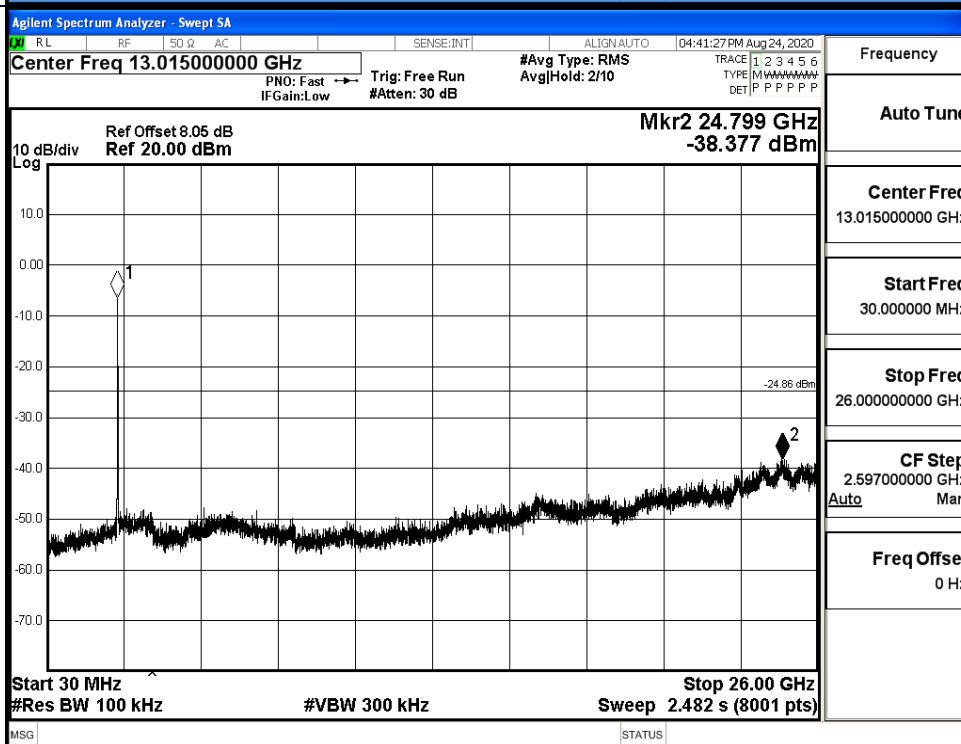
Pref/11G/HCH



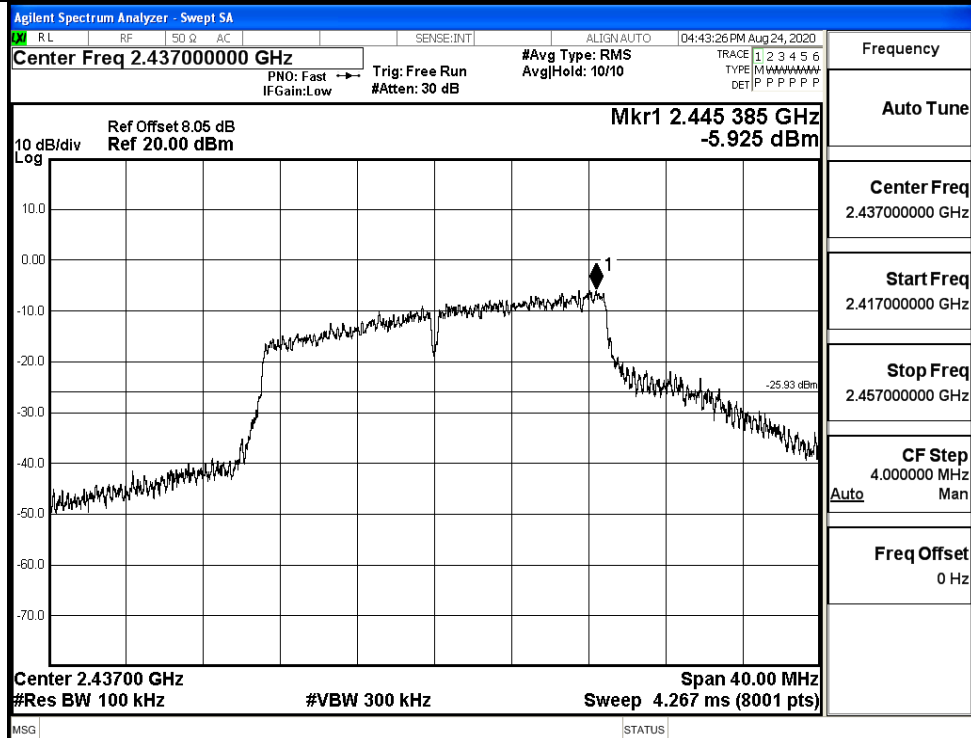
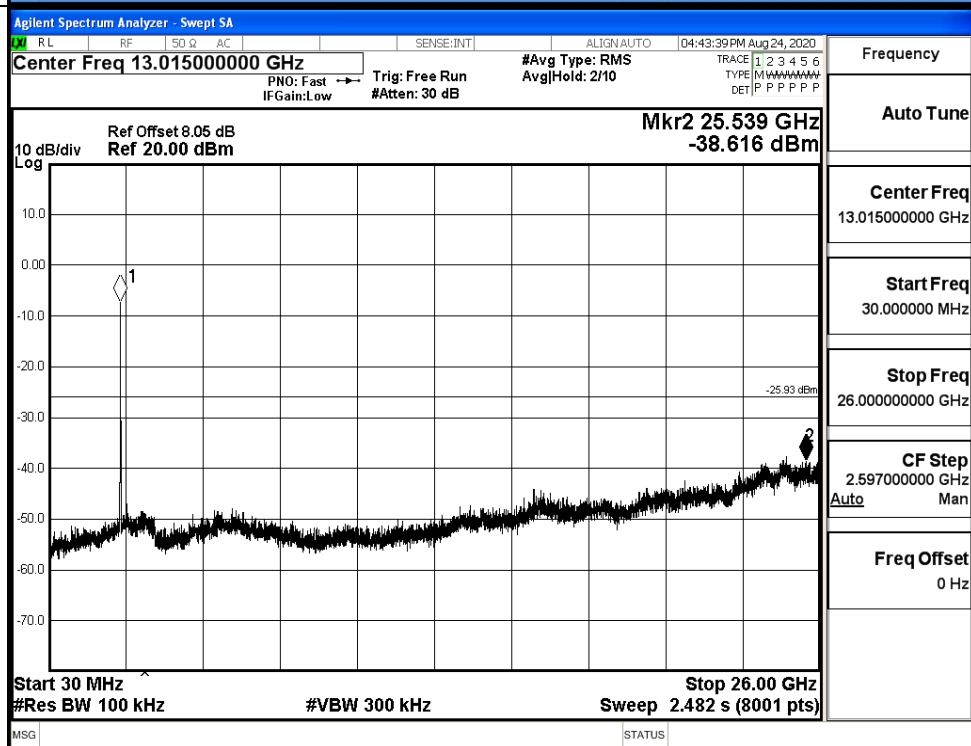
Puw/11G/HCH



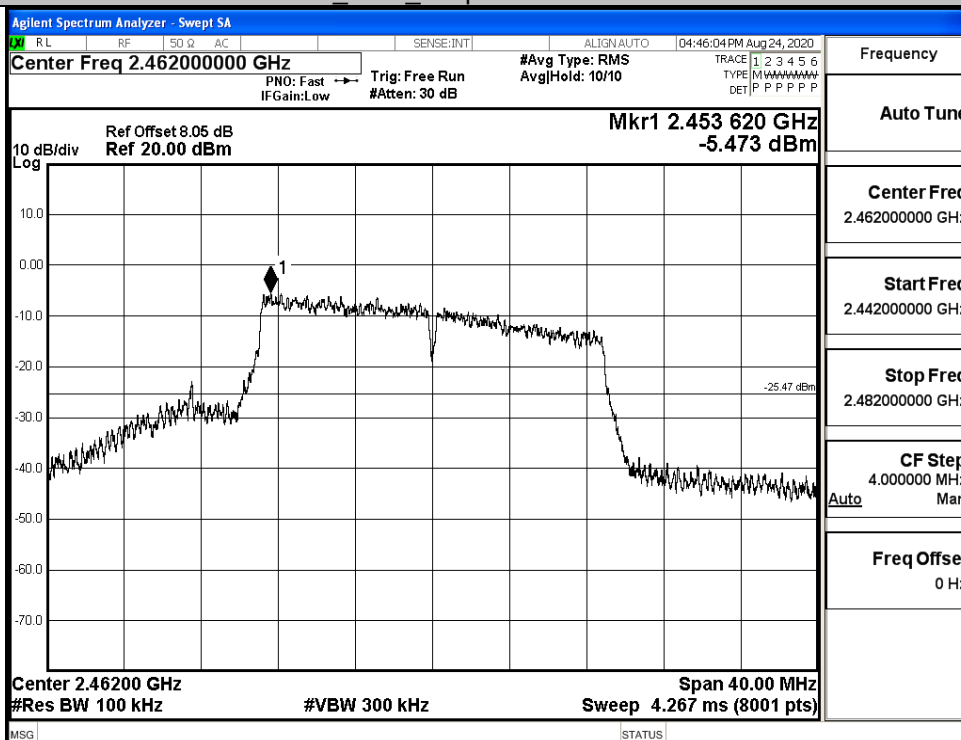
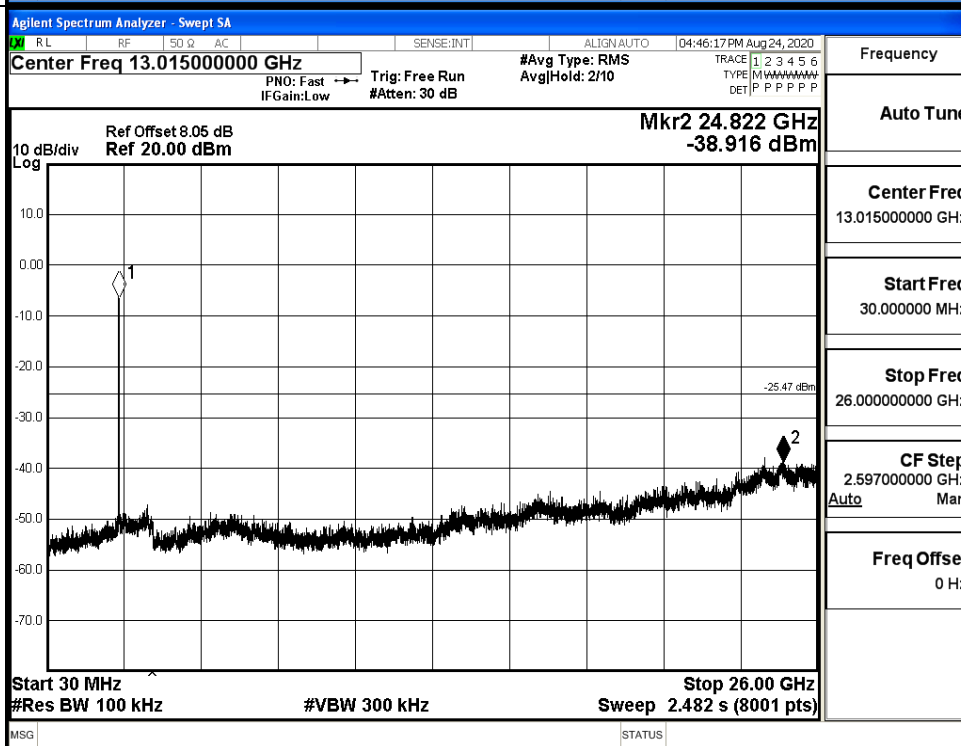
11N20 LCH Graphs

Pref/11N20
/LCHPuw/11N20
/LCH

11N20 MCH Graphs

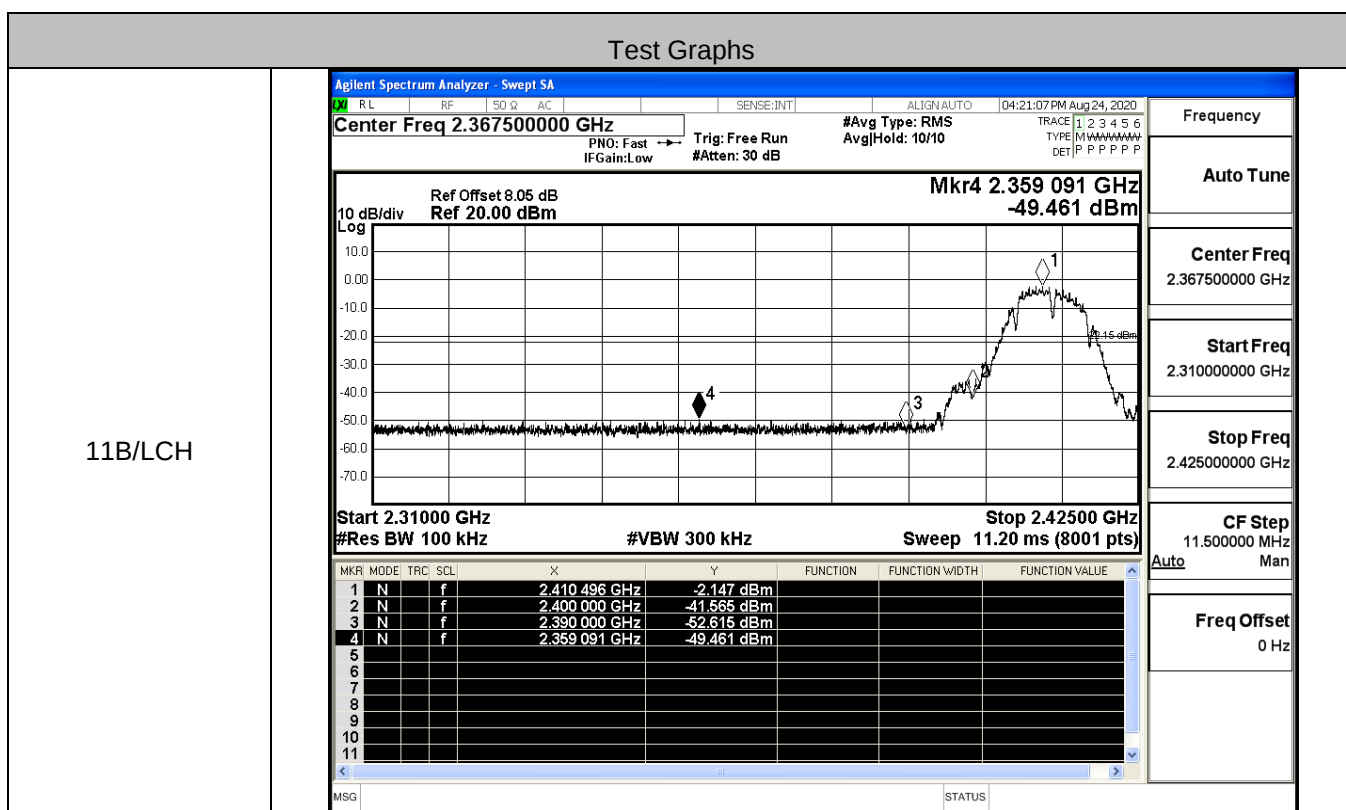
Pref/11N20
/MCHPuw/11N20
/MCH

11N20 HCH Graphs

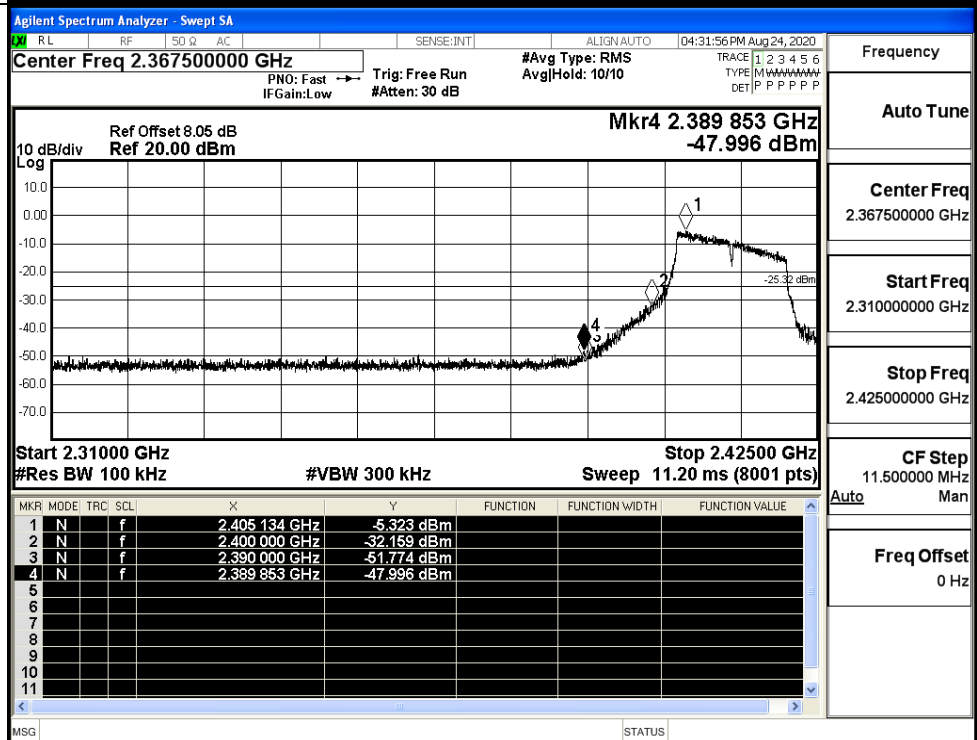
Pref/11N20
/HCHPuw/11N20
/HCH

C.6 Band-edge for RF Conducted Emissions

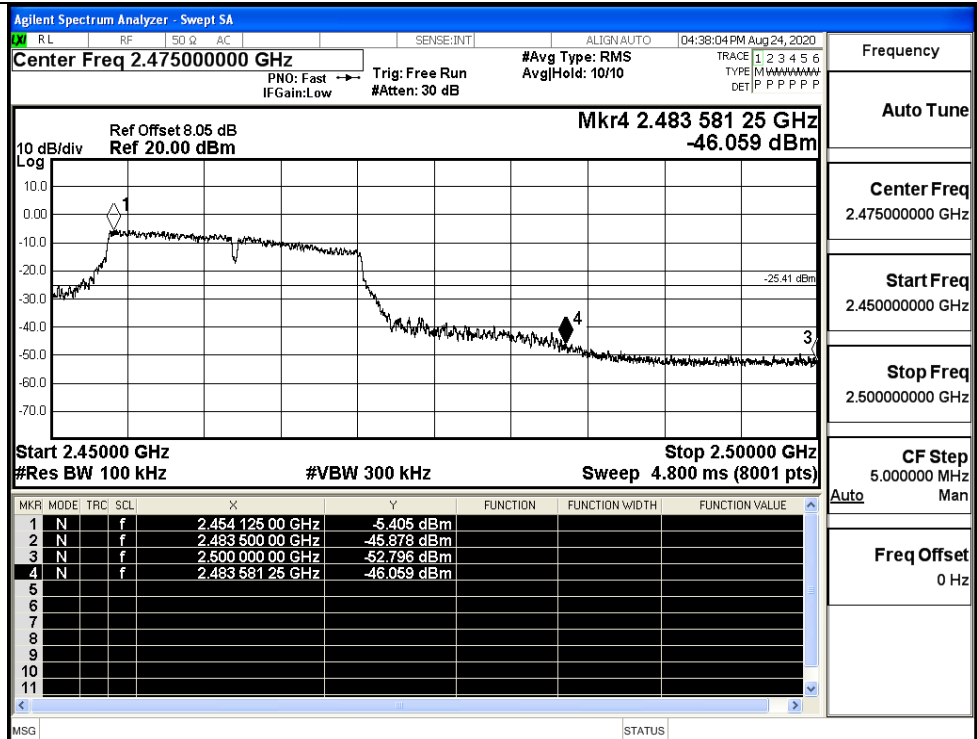
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-2.147	-49.461	-22.15	PASS
	HCH	-2.275	-48.608	-22.28	PASS
11G	LCH	-5.323	-47.996	-25.32	PASS
	HCH	-5.405	-46.059	-25.41	PASS
11N20	LCH	-4.671	-43.965	-24.67	PASS
	HCH	-5.426	-45.437	-25.43	PASS



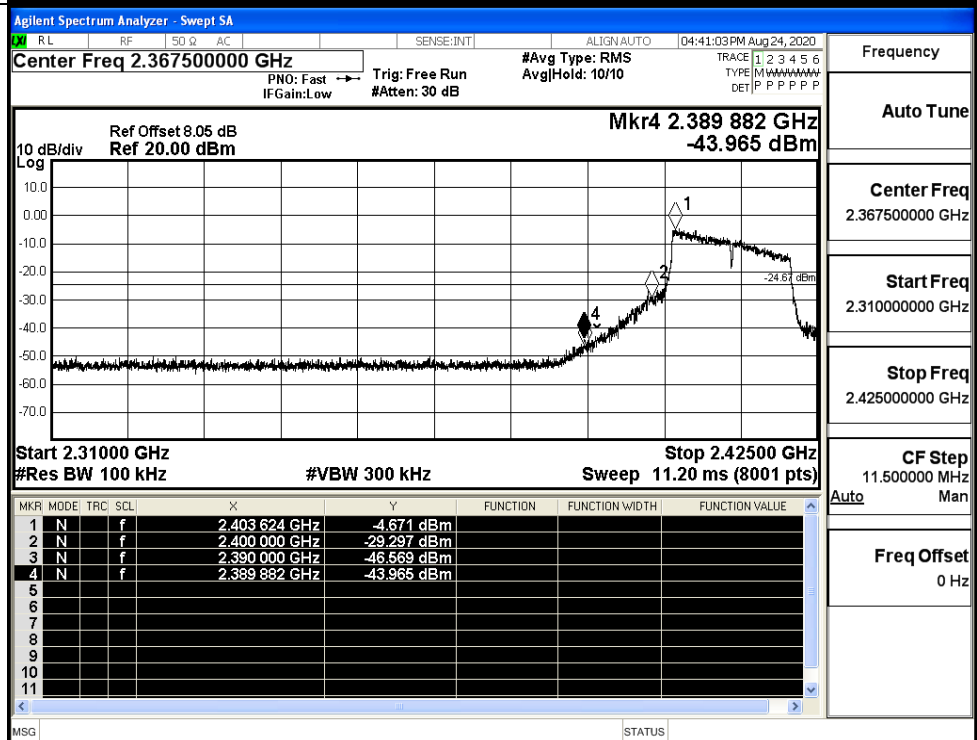
11G/LCH



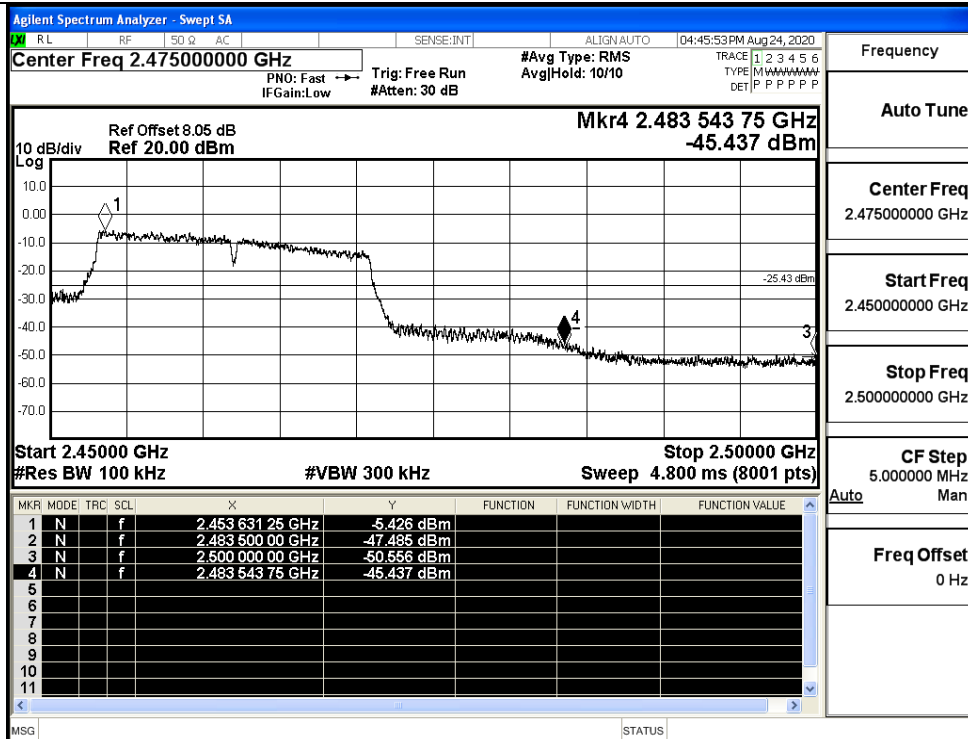
11G/HCH



11N20/LCH



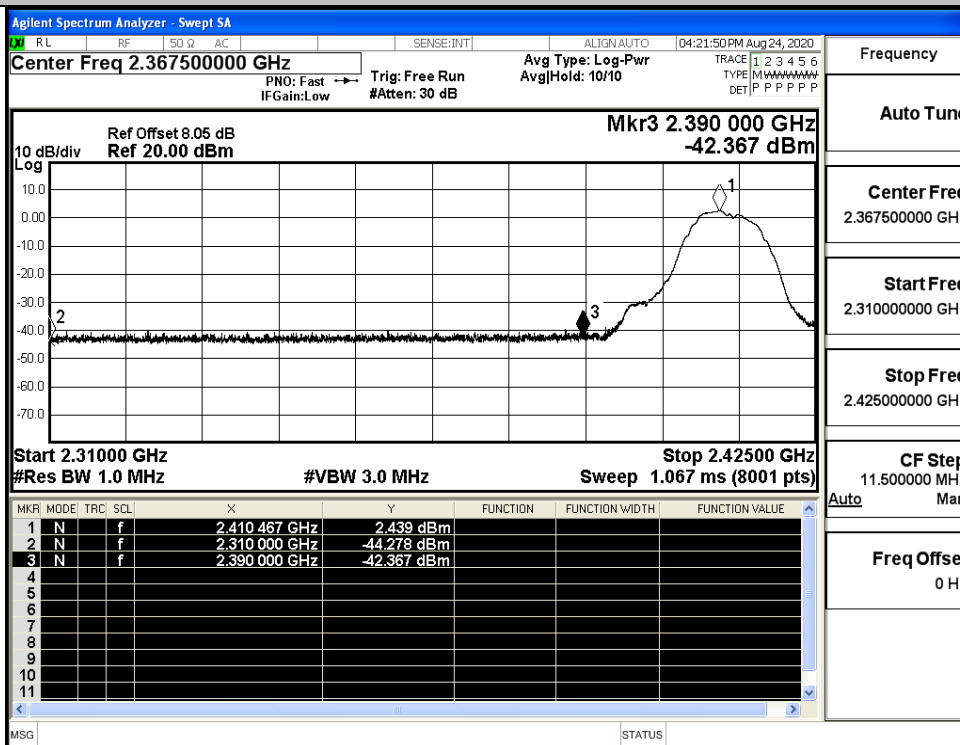
11N20/HCH



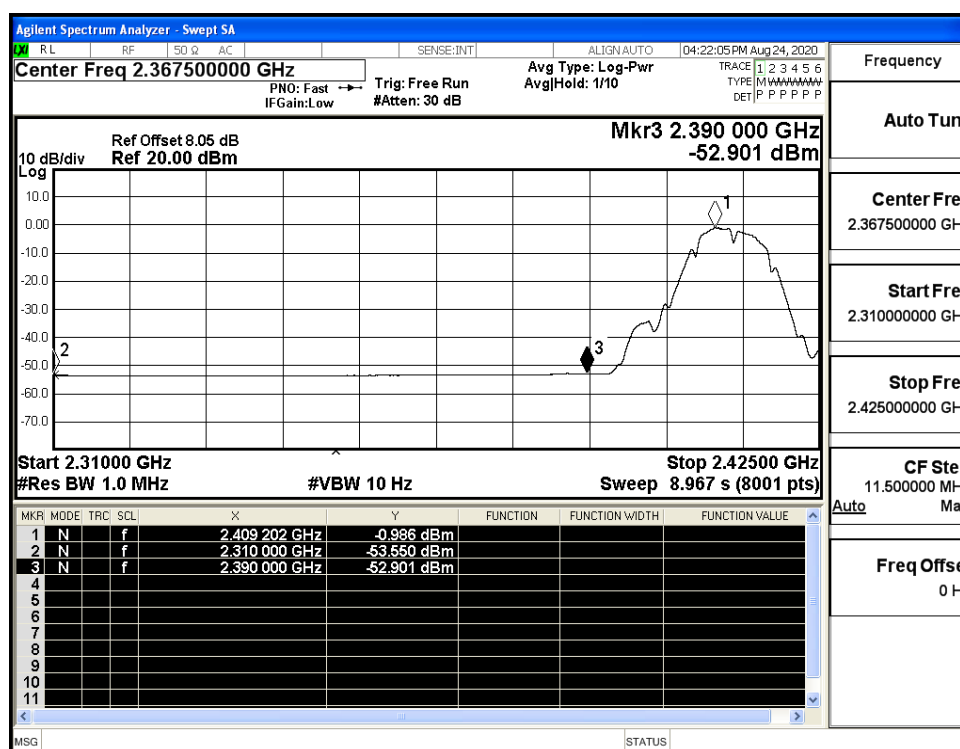
C.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-44.28	2.0	0	52.95	PEAK	74	PASS
	2412	Ant1	2310.0	-53.55	2.0	0	43.68	AV	54	PASS
	2412	Ant1	2390.0	-42.37	2.0	0	54.86	PEAK	74	PASS
	2412	Ant1	2390.0	-52.90	2.0	0	44.33	AV	54	PASS
	2462	Ant1	2483.5	-42.31	2.0	0	54.92	PEAK	74	PASS
	2462	Ant1	2483.5	-52.57	2.0	0	44.66	AV	54	PASS
	2462	Ant1	2500.0	-43.38	2.0	0	53.85	PEAK	74	PASS
	2462	Ant1	2500.0	-52.59	2.0	0	44.64	AV	54	PASS
11G	2412	Ant1	2310.0	-42.04	2.0	0	55.19	PEAK	74	PASS
	2412	Ant1	2310.0	-53.57	2.0	0	43.66	AV	54	PASS
	2412	Ant1	2390.0	-38.55	2.0	0	58.68	PEAK	74	PASS
	2412	Ant1	2390.0	-51.04	2.0	0	46.19	AV	54	PASS
	2462	Ant1	2483.5	-35.70	2.0	0	61.53	PEAK	74	PASS
	2462	Ant1	2483.5	-47.90	2.0	0	49.33	AV	54	PASS
	2462	Ant1	2500.0	-42.07	2.0	0	55.16	PEAK	74	PASS
	2462	Ant1	2500.0	-52.59	2.0	0	44.64	AV	54	PASS
11N20	2412	Ant1	2310.0	-41.97	2.0	0	55.26	PEAK	74	PASS
	2412	Ant1	2310.0	-53.57	2.0	0	43.66	AV	54	PASS
	2412	Ant1	2390.0	-30.03	2.0	0	67.20	PEAK	74	PASS
	2412	Ant1	2390.0	-48.65	2.0	0	48.58	AV	54	PASS
	2462	Ant1	2483.5	-33.66	2.0	0	63.57	PEAK	74	PASS
	2462	Ant1	2483.5	-47.53	2.0	0	49.70	AV	54	PASS
	2462	Ant1	2500.0	-42.58	2.0	0	54.65	PEAK	74	PASS
	2462	Ant1	2500.0	-52.62	2.0	0	44.61	AV	54	PASS

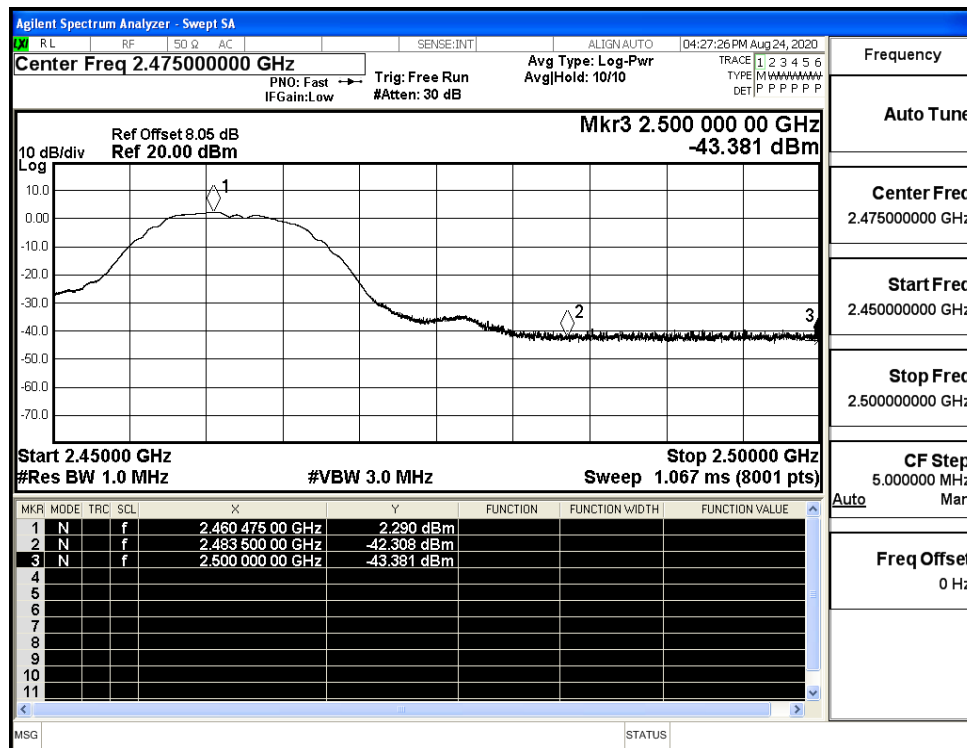
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



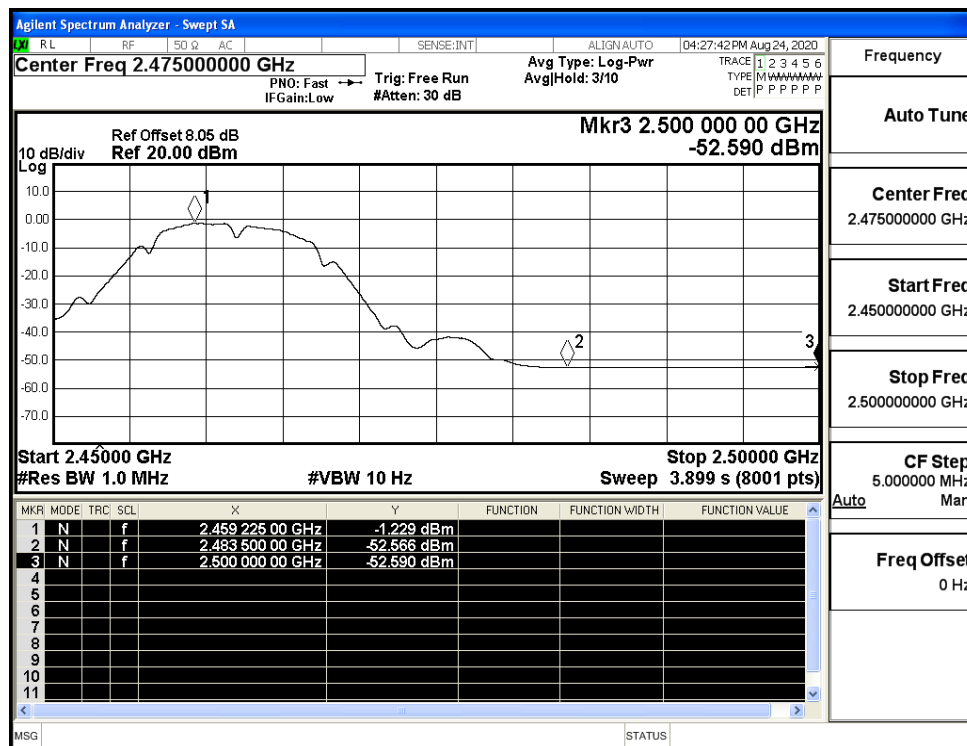
Restrict-band band-edge measurements_11B_2412_Ant1_AV



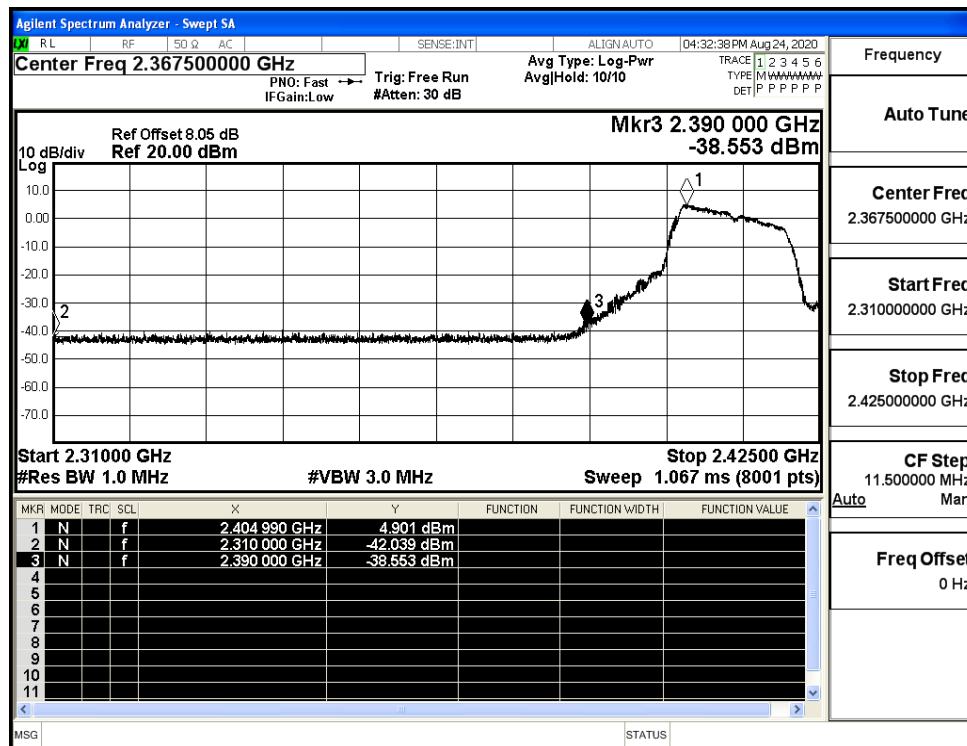
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



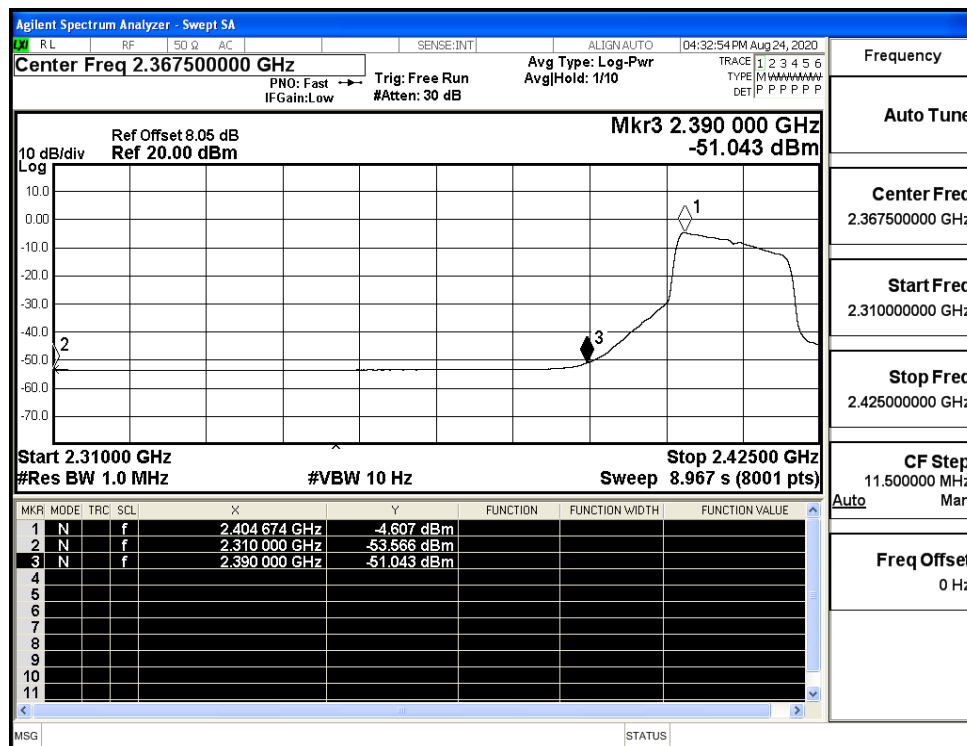
Restrict-band band-edge measurements_11B_2462_Ant1_AV



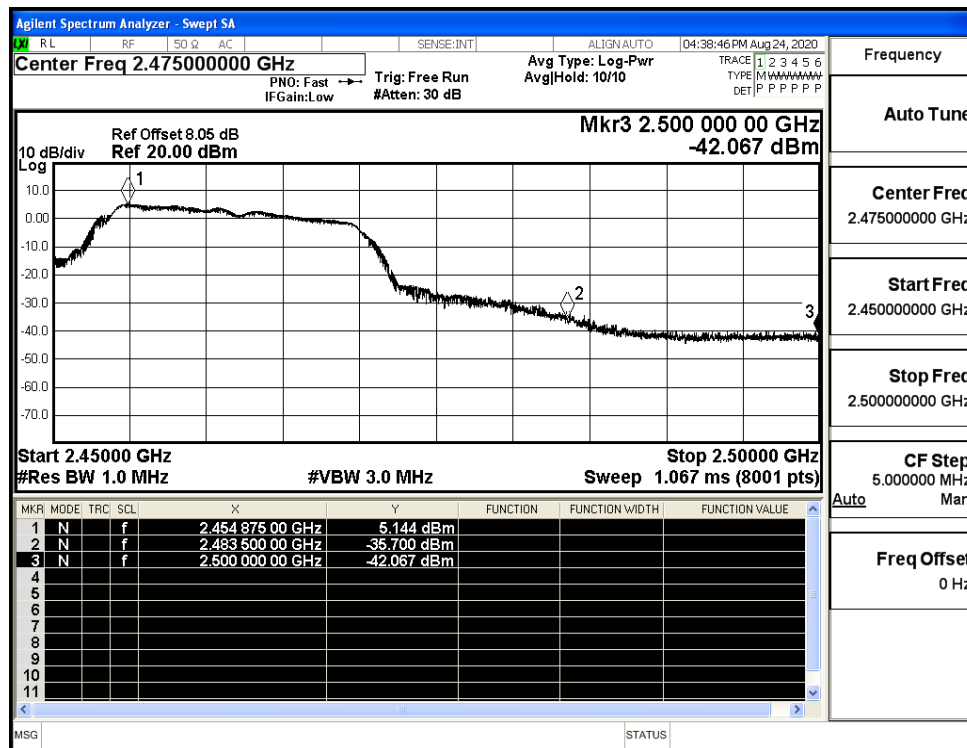
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



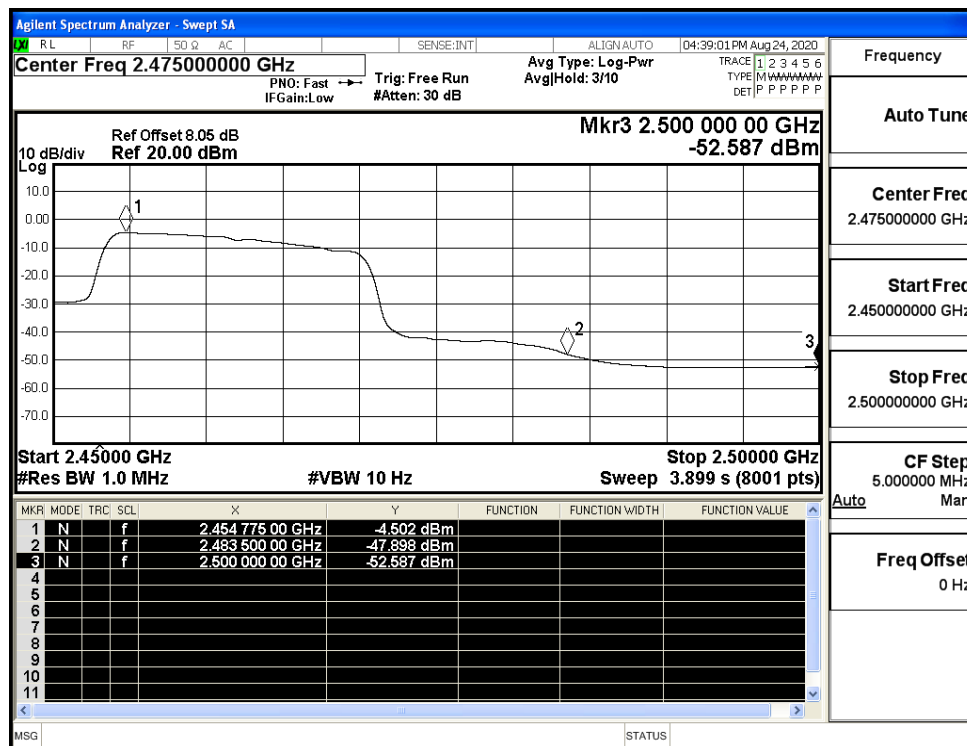
Restrict-band band-edge measurements_11G_2412_Ant1_AV



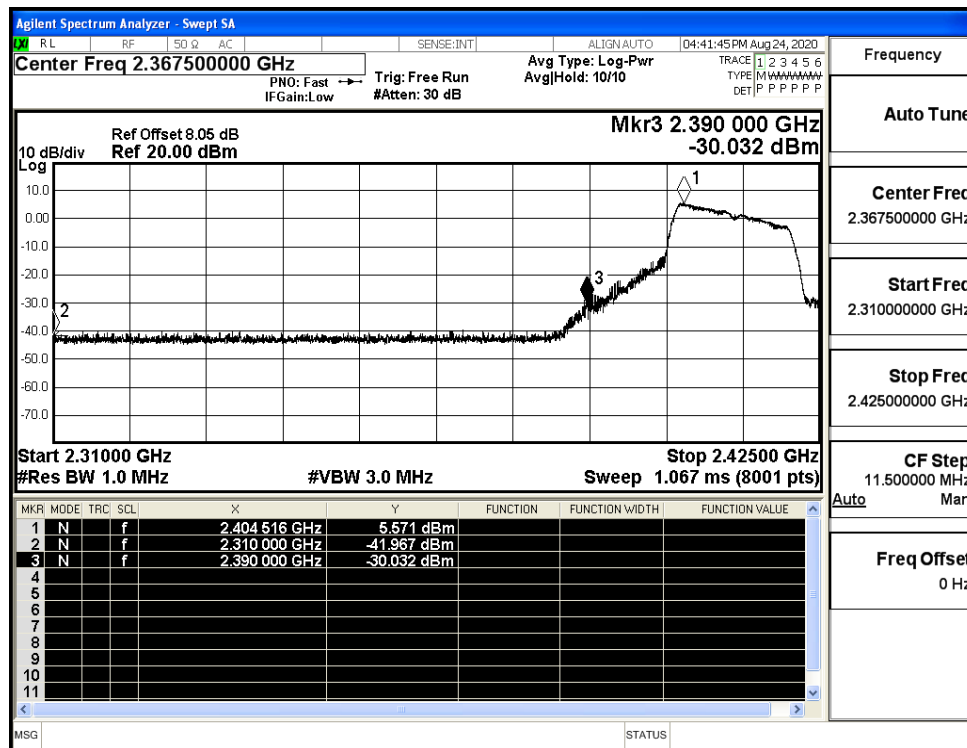
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



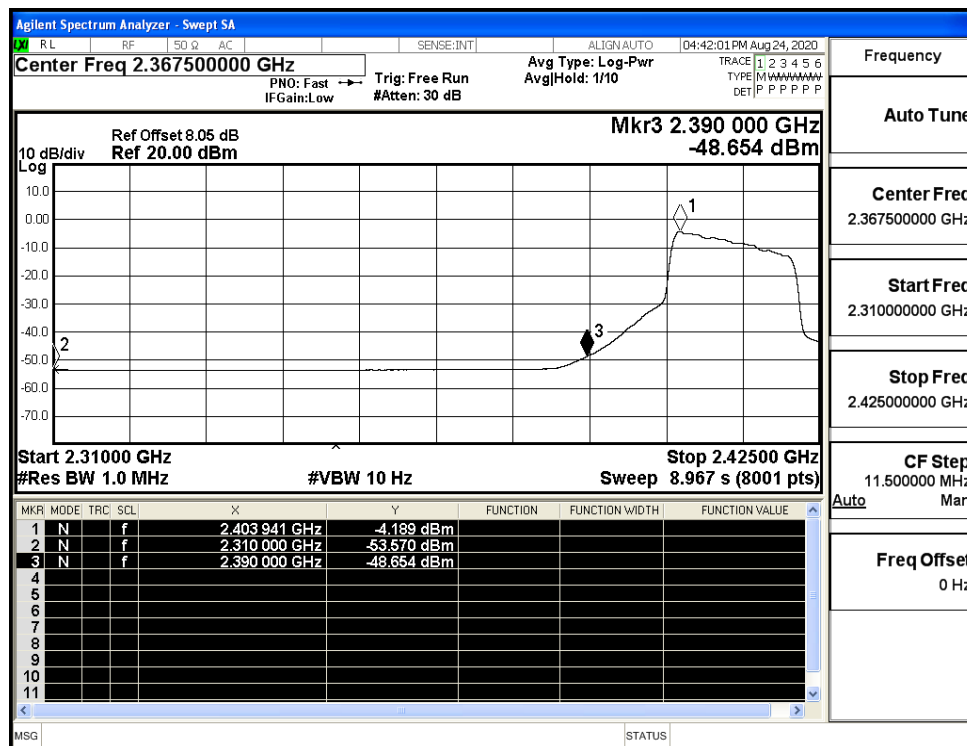
Restrict-band band-edge measurements_11G_2462_Ant1_AV

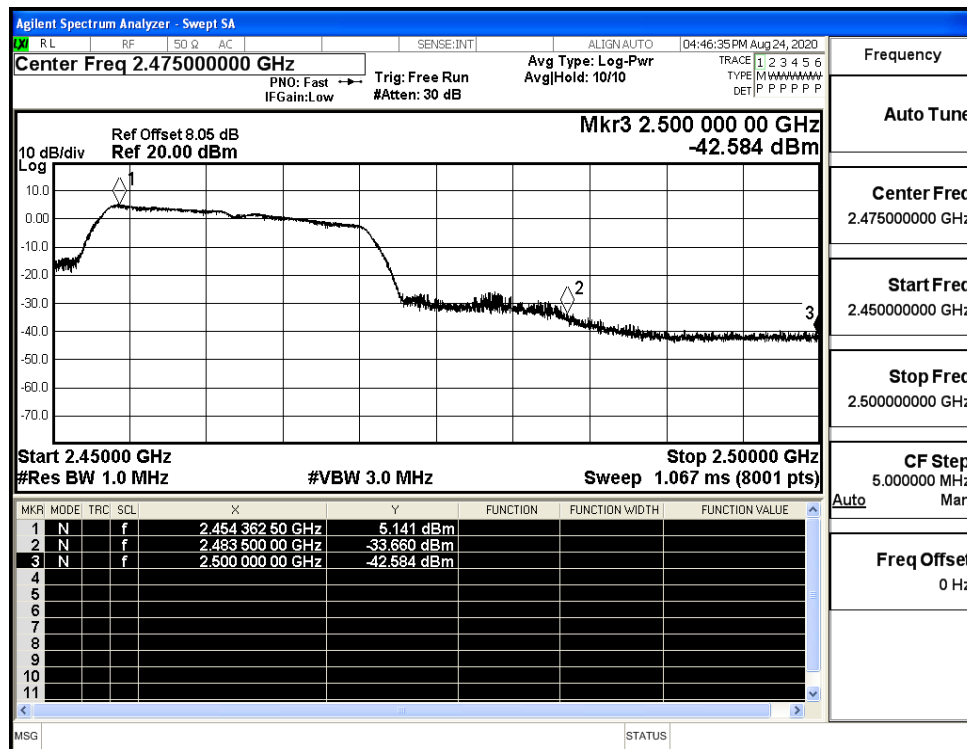


Restrict-band band-edge measurements_11N20_2412_Ant1_PEAK



Restrict-band band-edge measurements_11N20SISO_2412_Ant1_AV





Restrict-band band-edge measurements_11N20_2462_Ant1_AV

