

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart WIFI Strip Light Kit

Trade Mark: N/A

Test Model: AC1275-RWF-24LFW-G

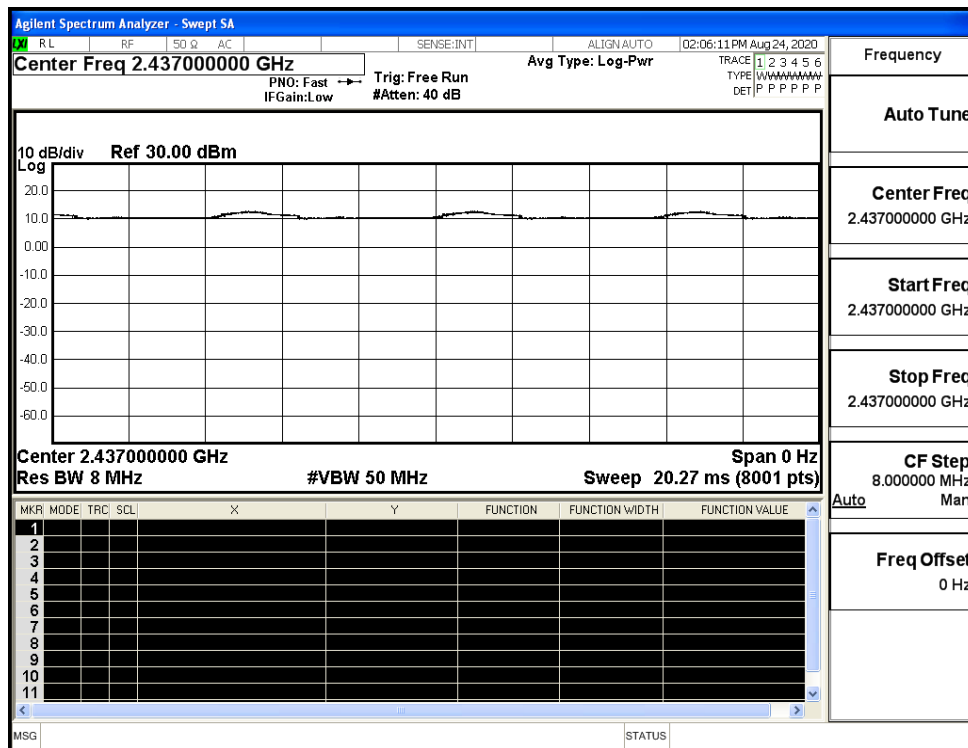
Environmental Conditions

Temperature:	23.7 ° C
Relative Humidity:	53.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

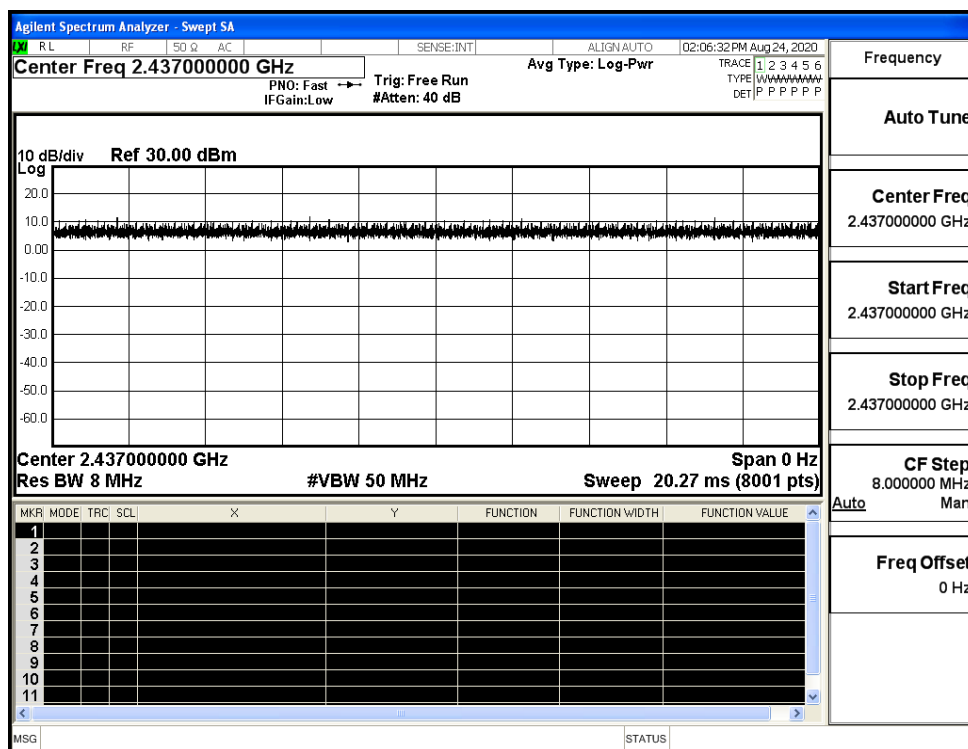
A.1 Duty Cycle

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

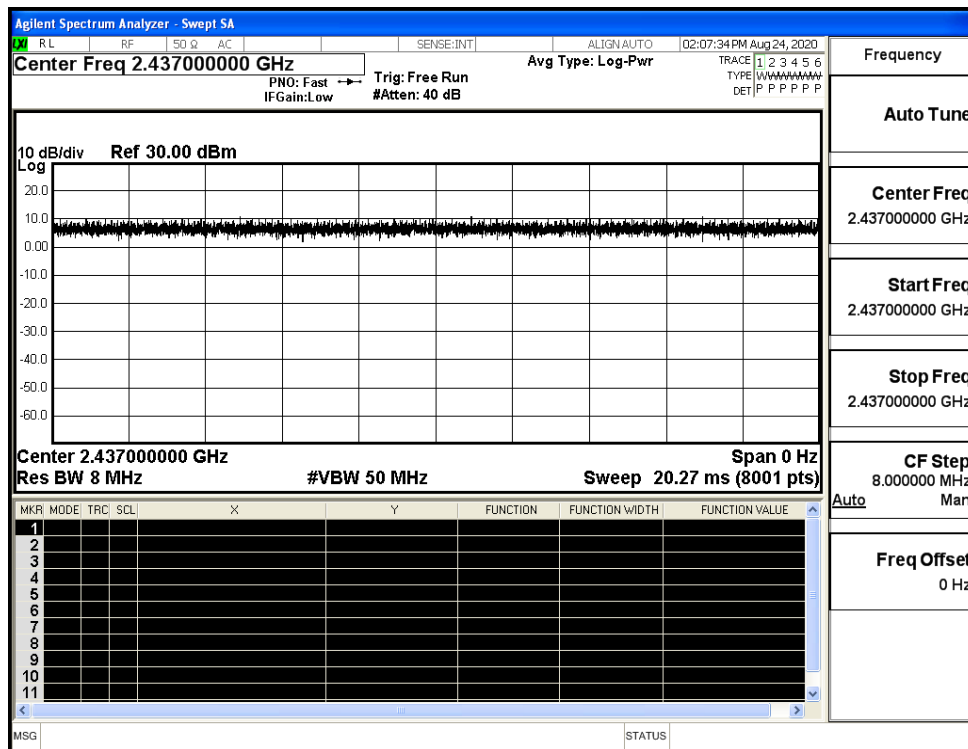
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1

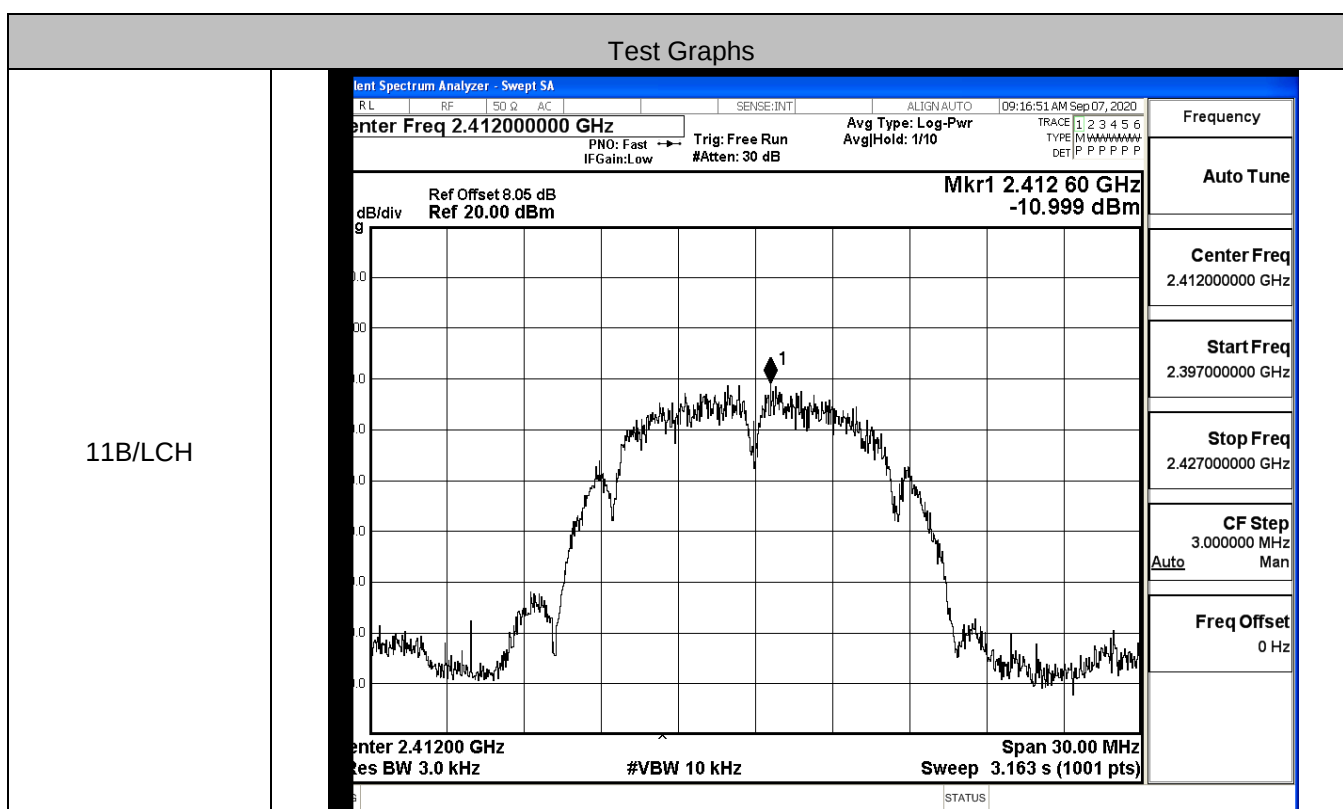


A.2 Maximum Conducted Output Power

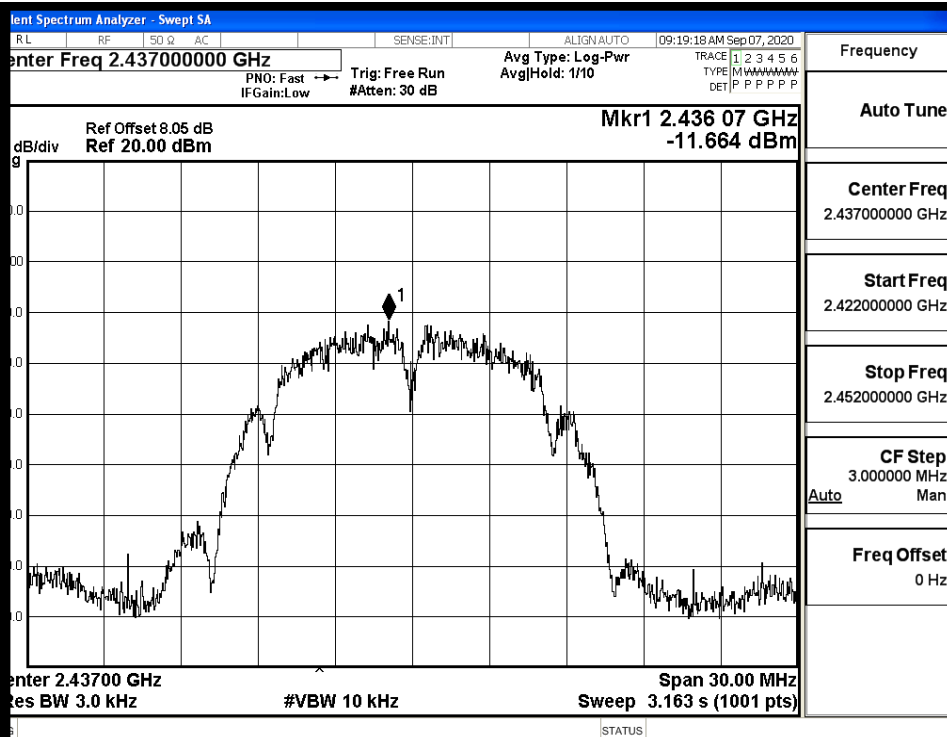
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	14.64	30	PASS
	MCH	14.17	30	PASS
	HCH	14.03	30	PASS
11G	LCH	19.41	30	PASS
	MCH	18.94	30	PASS
	HCH	18.73	30	PASS
11N20SISO	LCH	19.29	30	PASS
	MCH	18.81	30	PASS
	HCH	18.61	30	PASS

A.3 Maximum Power Spectral Density

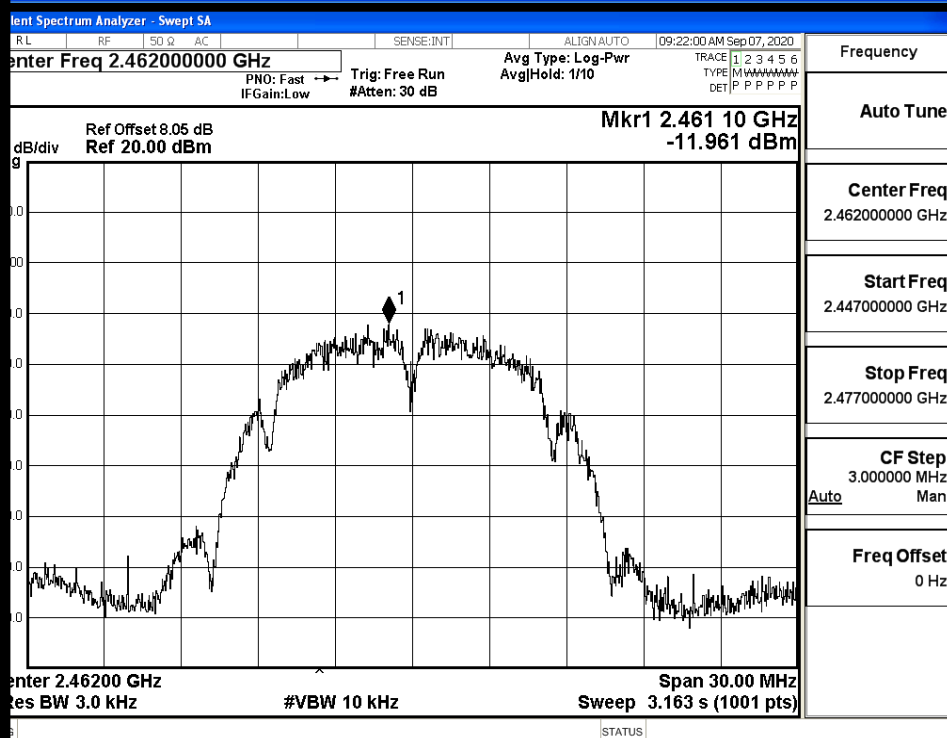
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-10.999	8	PASS
	MCH	-11.664	8	PASS
	HCH	-11.961	8	PASS
11G	LCH	-13.824	8	PASS
	MCH	-14.085	8	PASS
	HCH	-15.305	8	PASS
11N20SISO	LCH	-13.121	8	PASS
	MCH	-13.813	8	PASS
	HCH	-15.683	8	PASS

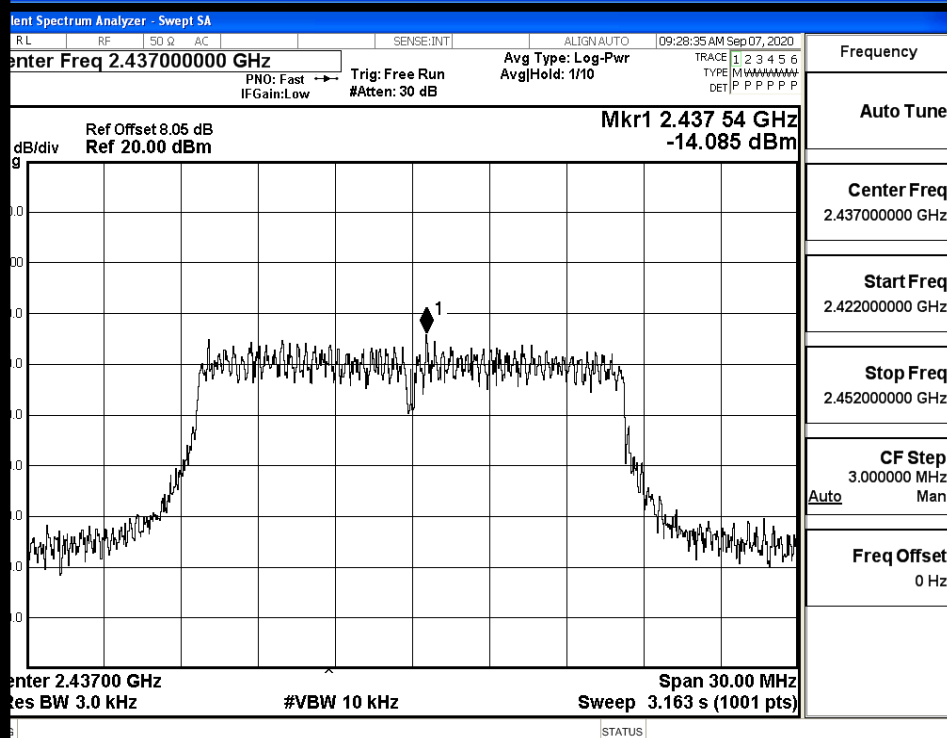
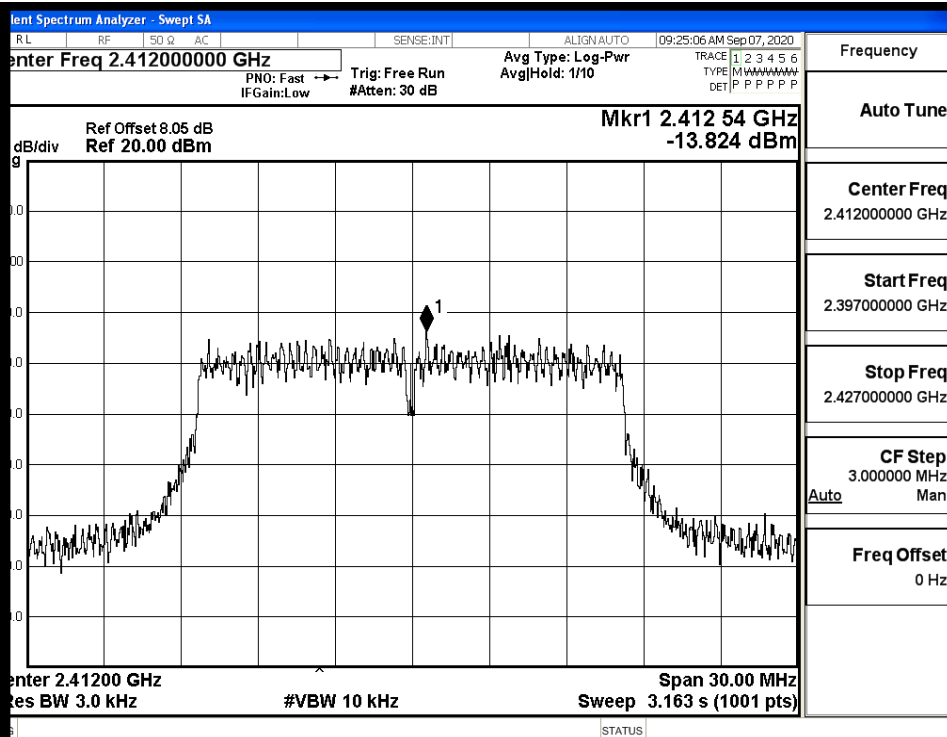


11B/MCH

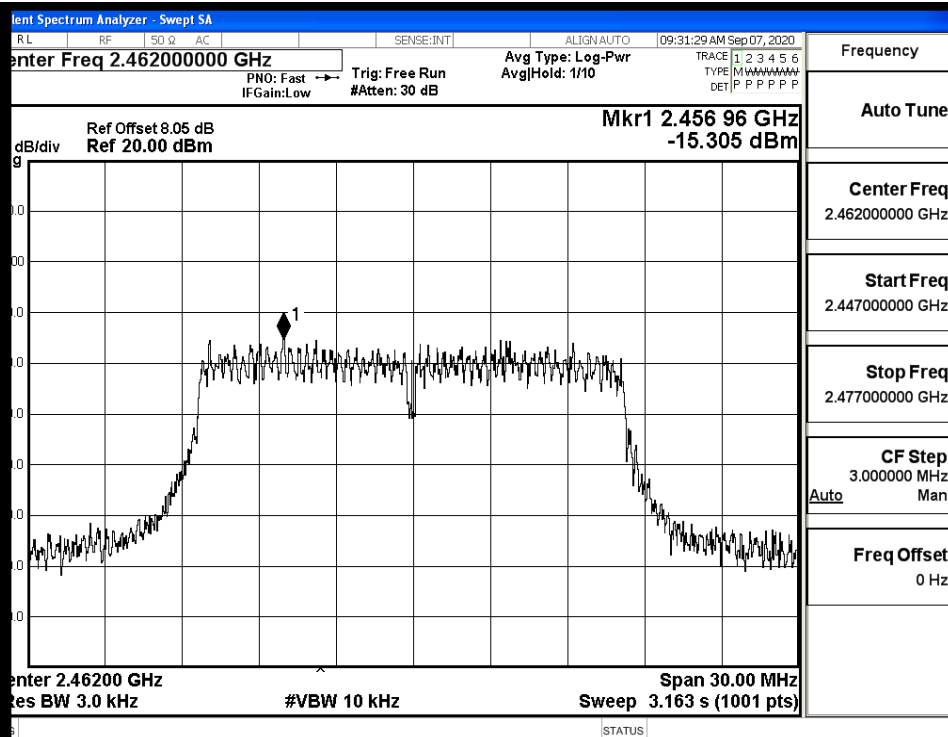


11B/HCH

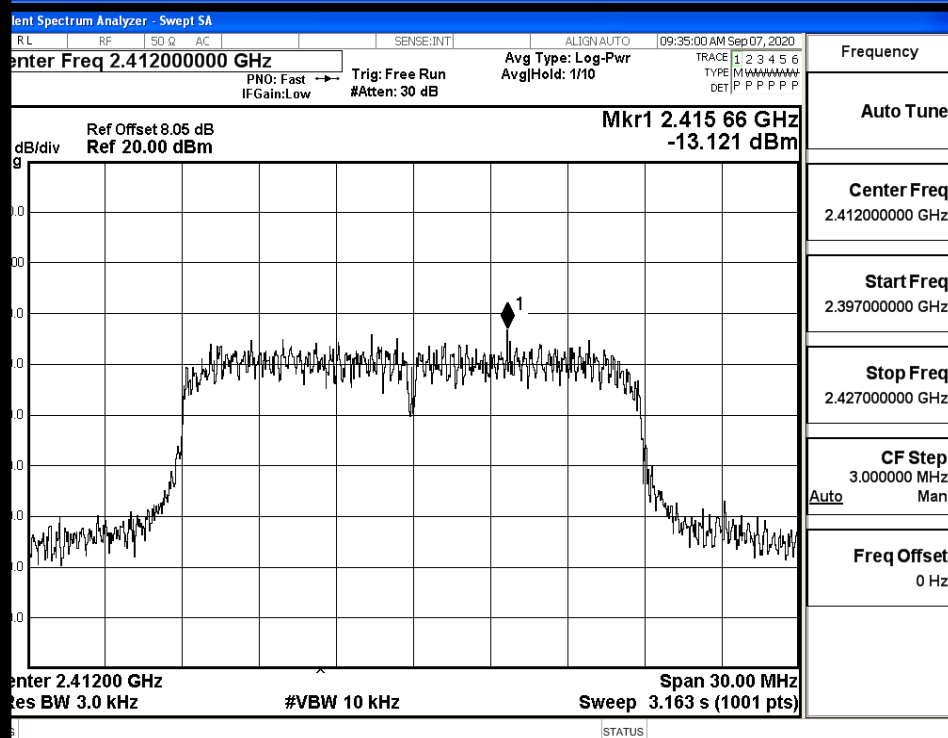


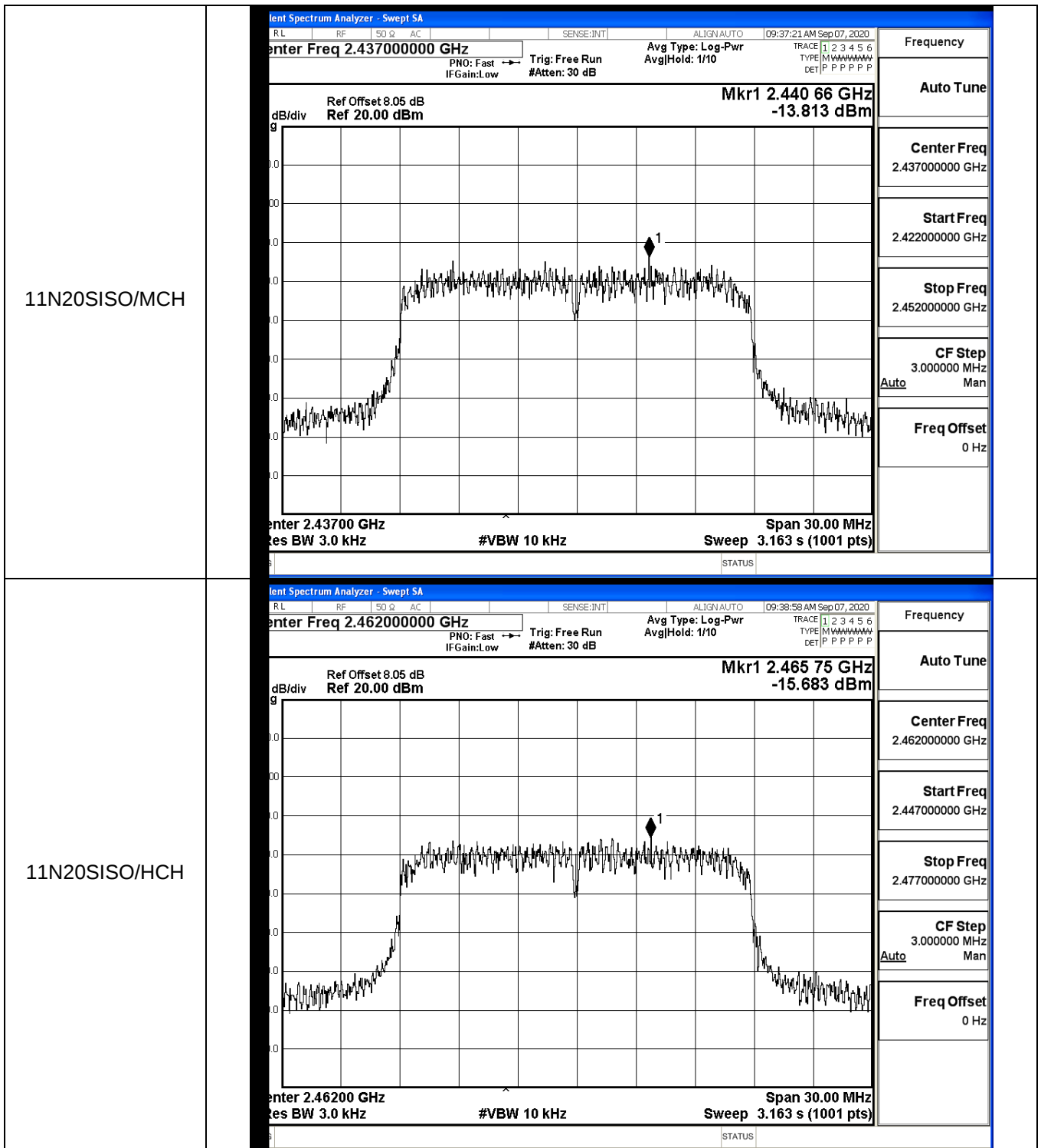


11G/HCH



11N20SISO/LCH

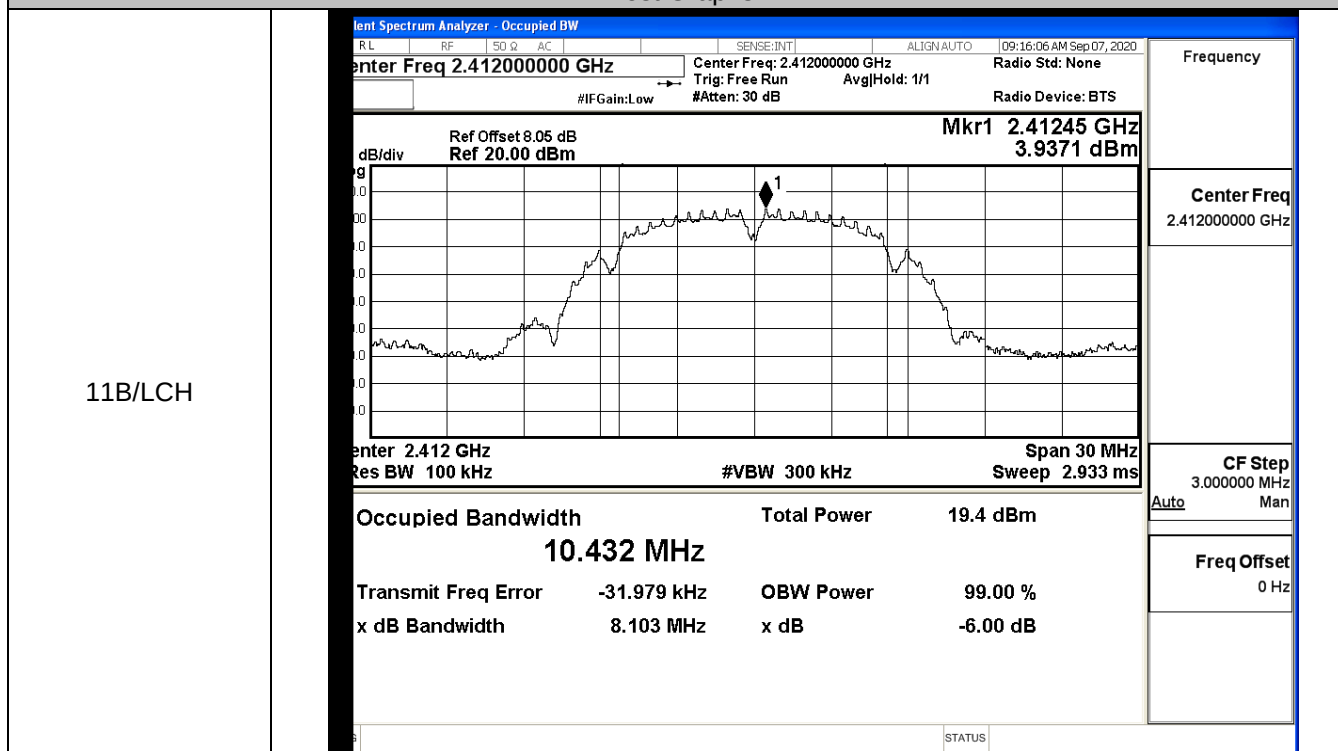




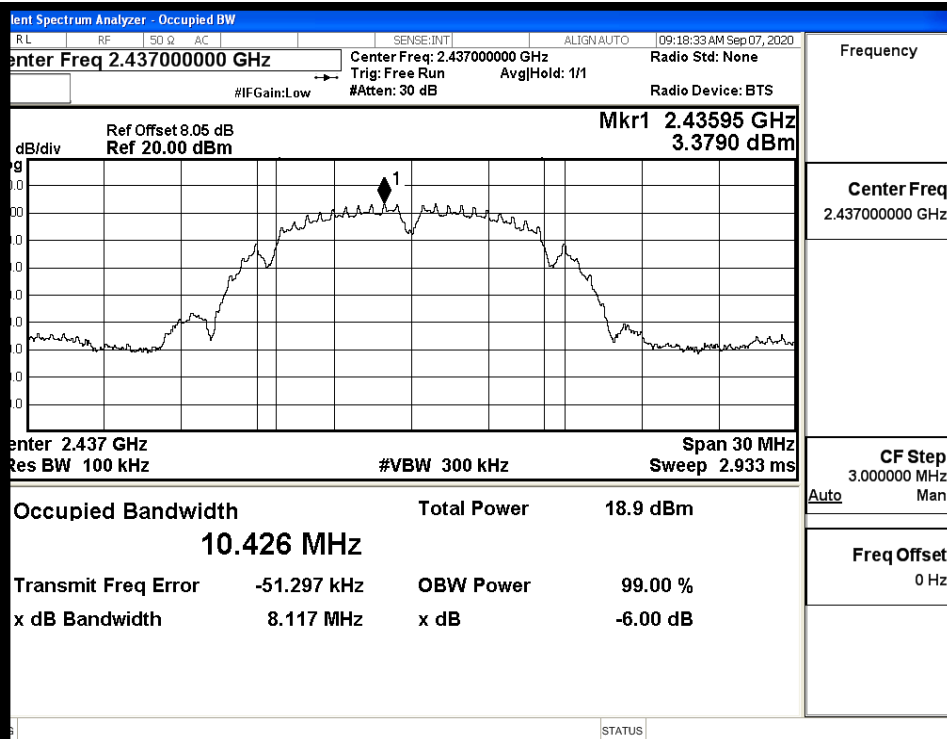
A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.103	≥ 0.5	PASS
	MCH	8.117	≥ 0.5	PASS
	HCH	8.109	≥ 0.5	PASS
11G	LCH	15.80	≥ 0.5	PASS
	MCH	15.82	≥ 0.5	PASS
	HCH	15.80	≥ 0.5	PASS
11N20SISO	LCH	15.69	≥ 0.5	PASS
	MCH	15.71	≥ 0.5	PASS
	HCH	15.79	≥ 0.5	PASS

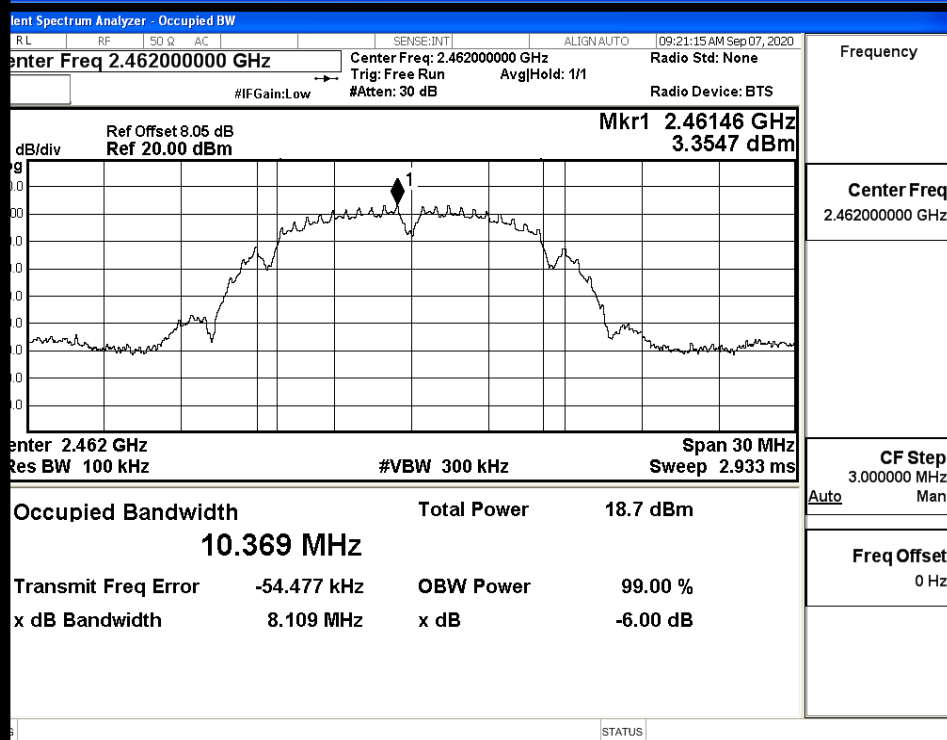
Test Graphs



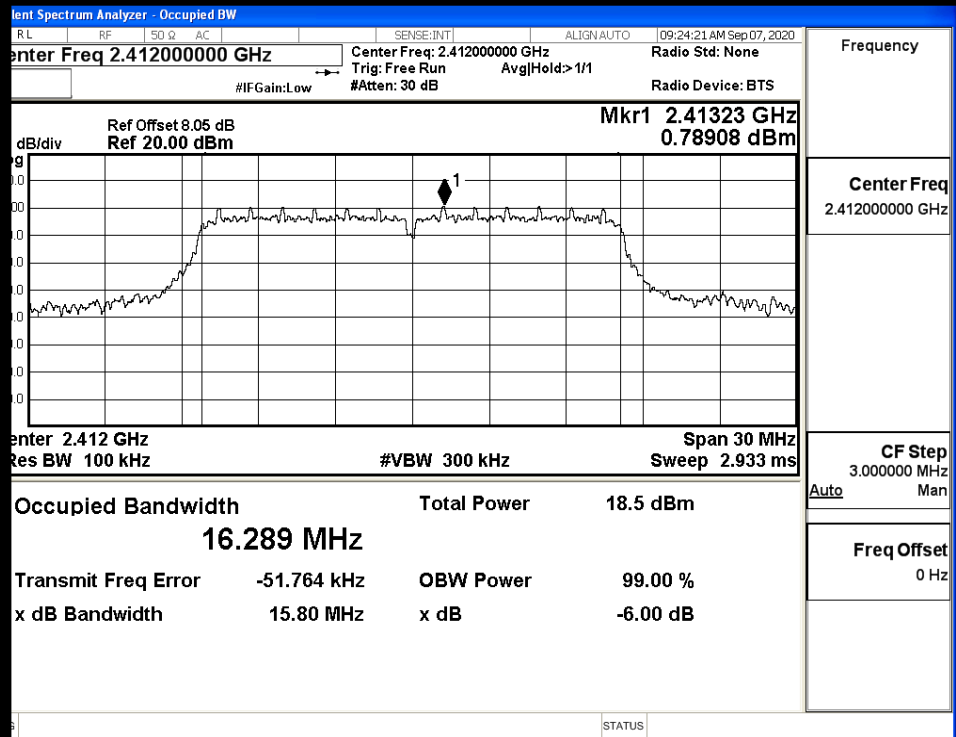
11B/MCH



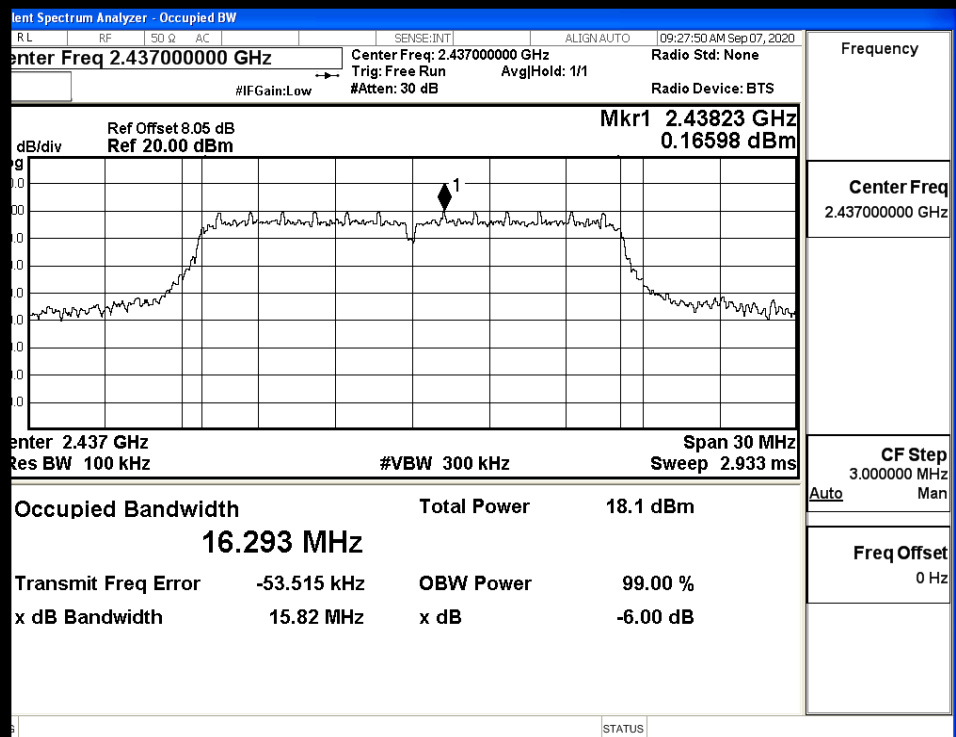
11B/HCH



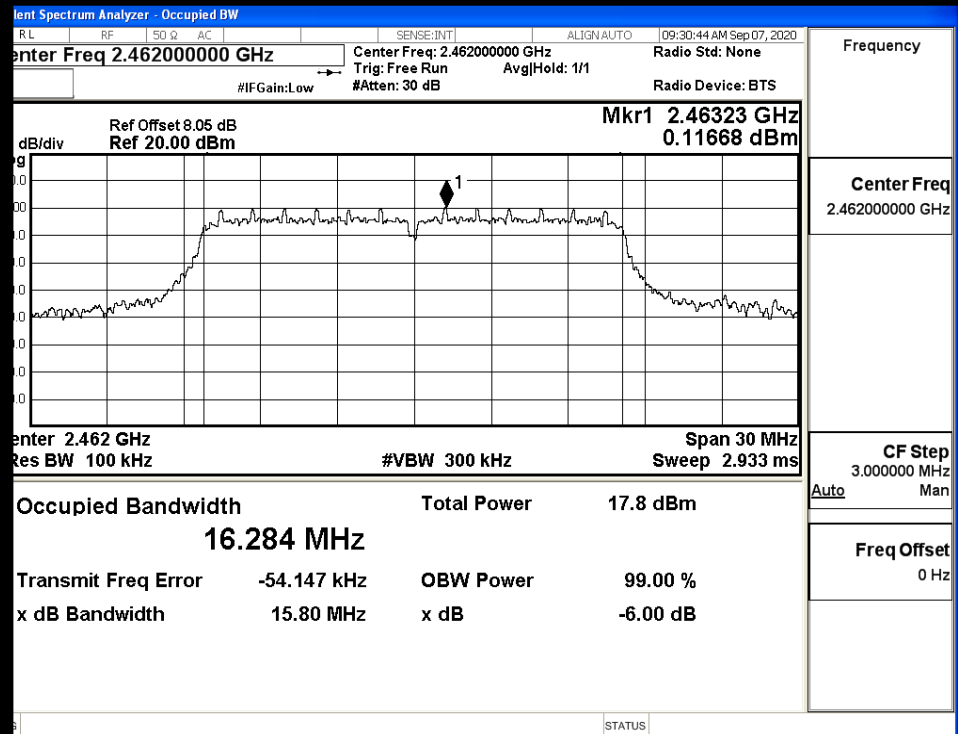
11G/LCH



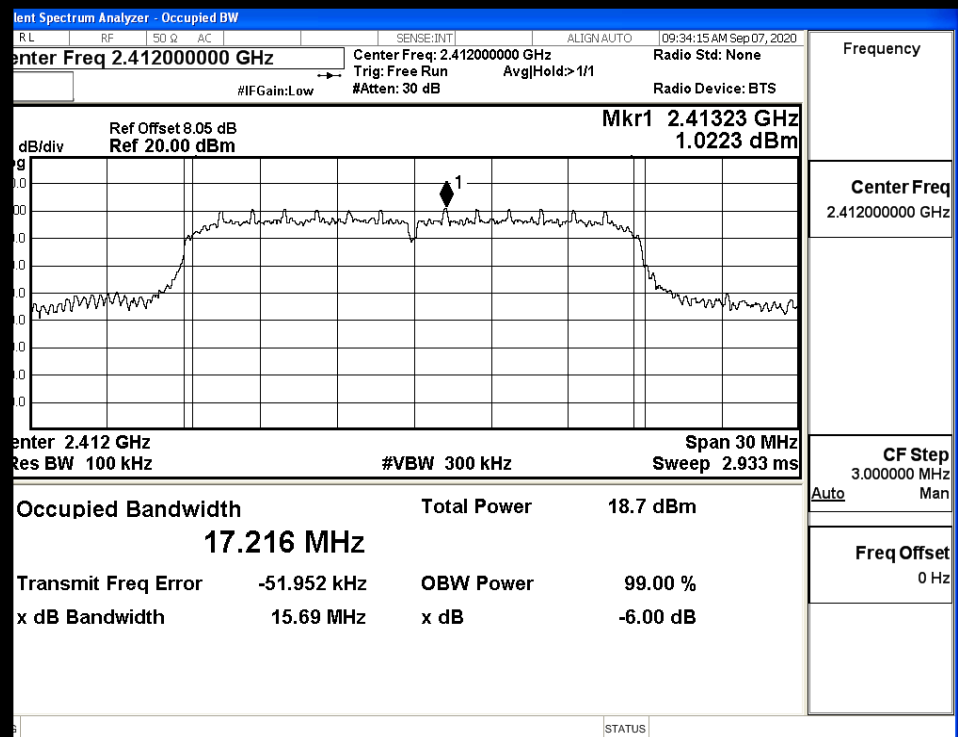
11G/MCH

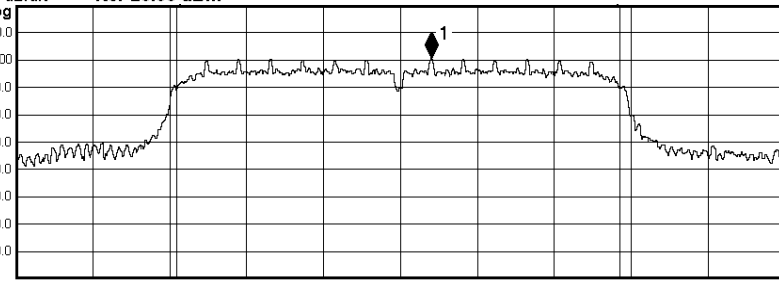


11G/HCH



11N20SISO/LCH



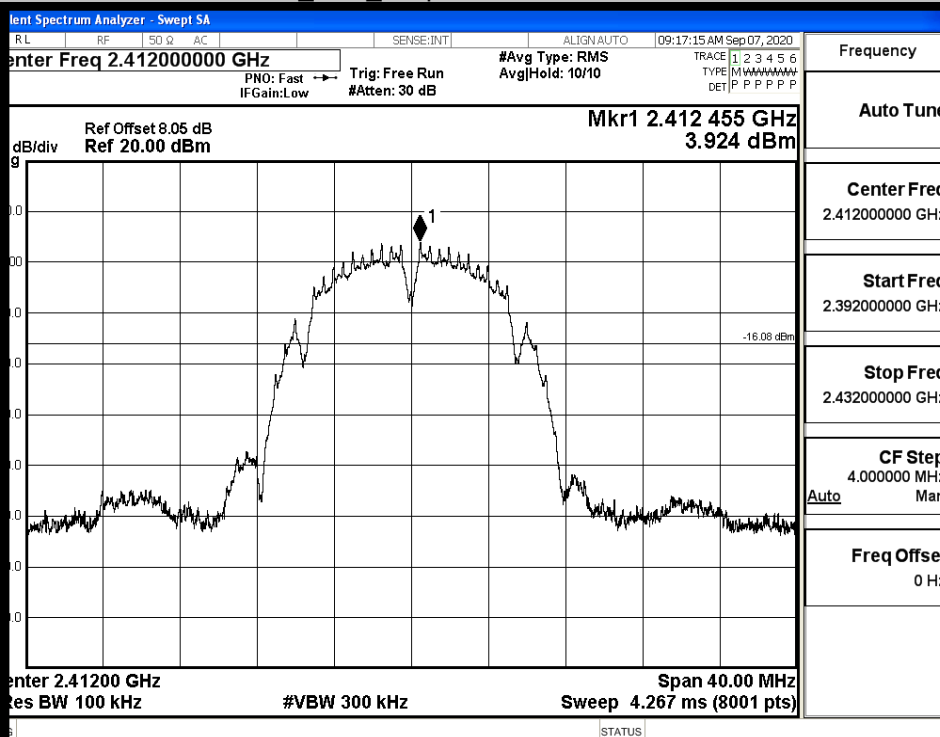
11N20SISO/MCH	ent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC SENSE:INT ALIGN AUTO 09:36:37 AM Sep 07, 2020 Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None Trig: Free Run Avg Hold: 1/1 #IFGain:Low #Atten: 30 dB Radio Device: BTS Ref Offset 8.05 dB Mkr1 2.4382 GHz Ref 20.00 dBm 0.50449 dBm  Center 2.437 GHz Span 30 MHz Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms Occupied Bandwidth Total Power 18.2 dBm 17.223 MHz Transmit Freq Error -56.922 kHz OBW Power 99.00 % x dB Bandwidth 15.71 MHz x dB -6.00 dB STATUS Frequency Center Freq 2.437000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
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A.5 RF Conducted Spurious Emissions

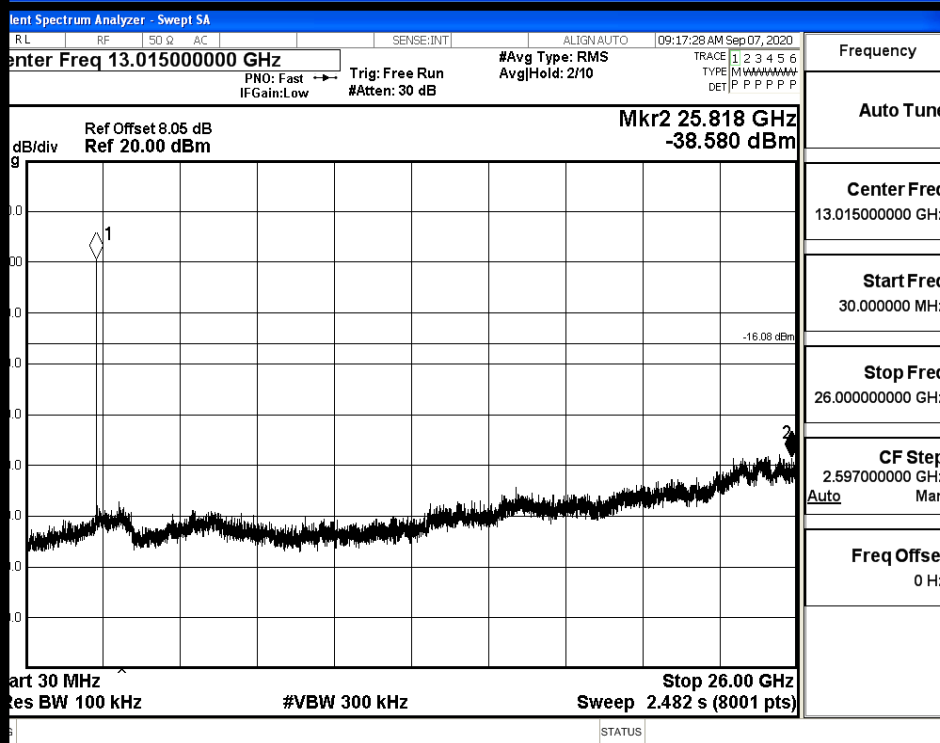
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.924	-38.580	-16.076	PASS
	MCH	2.964	-37.852	-17.036	PASS
	HCH	2.846	-37.786	-17.154	PASS
11G	LCH	0.868	-38.442	-19.132	PASS
	MCH	0.031	-37.772	-19.969	PASS
	HCH	0.016	-37.507	-19.984	PASS
11N20 SISO	LCH	1.014	-38.235	-18.986	PASS
	MCH	0.455	-38.200	-19.545	PASS
	HCH	0.002	-37.328	-19.998	PASS

11B LCH Graphs

Pref/11B/LCH

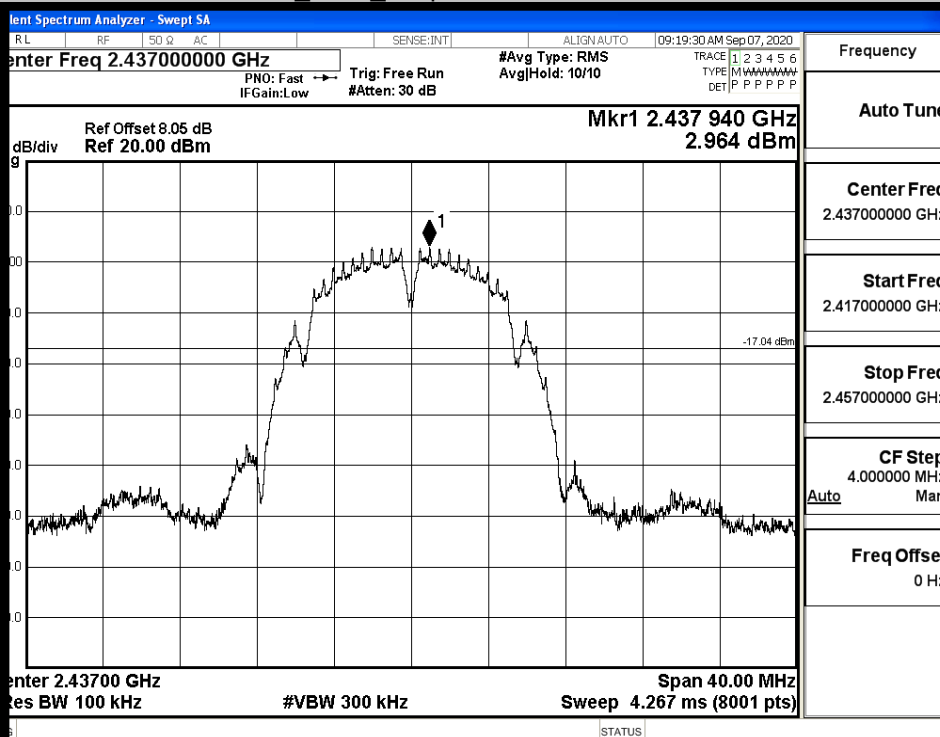


Puw/11B/LCH

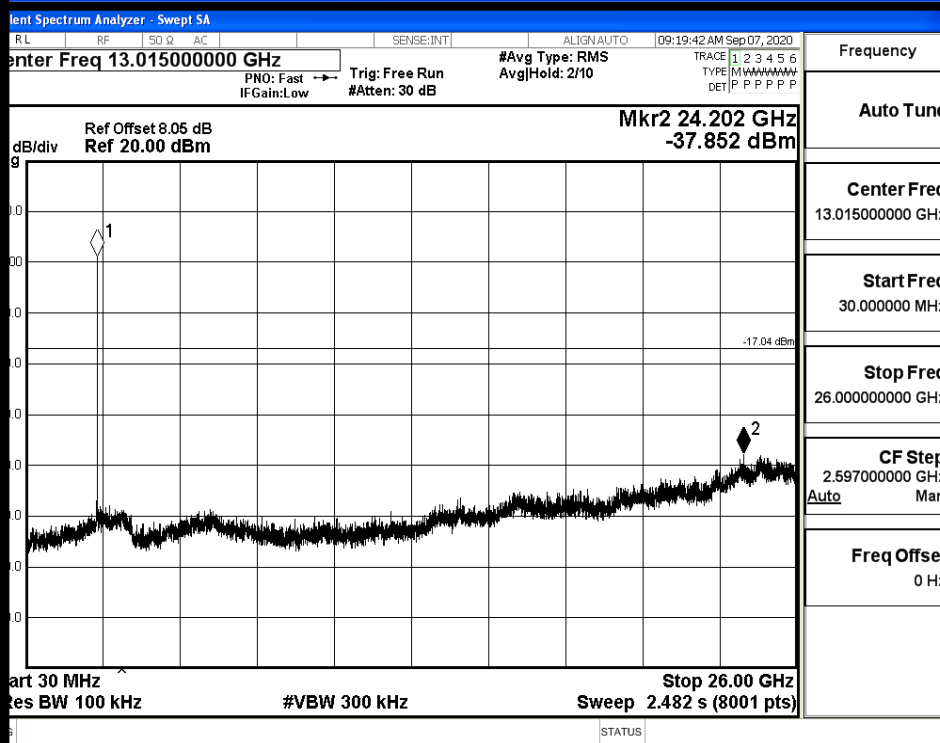


11B MCH Graphs

Pref/11B/MCH

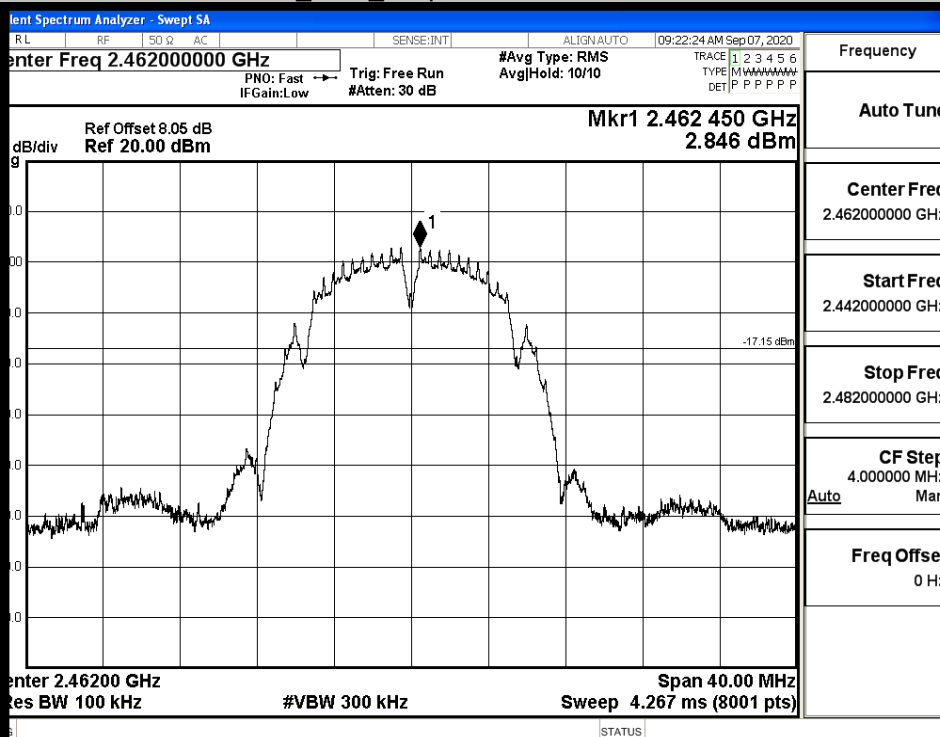


Puw/11B/MCH

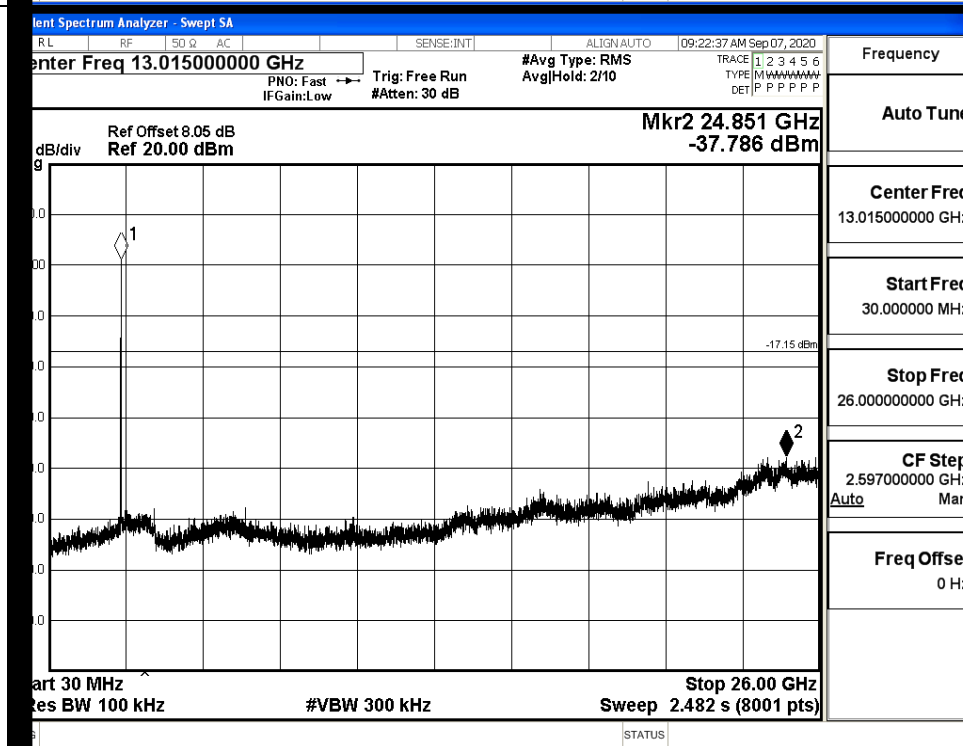


11B_HCH_Graphs

Pref/11B/HCH

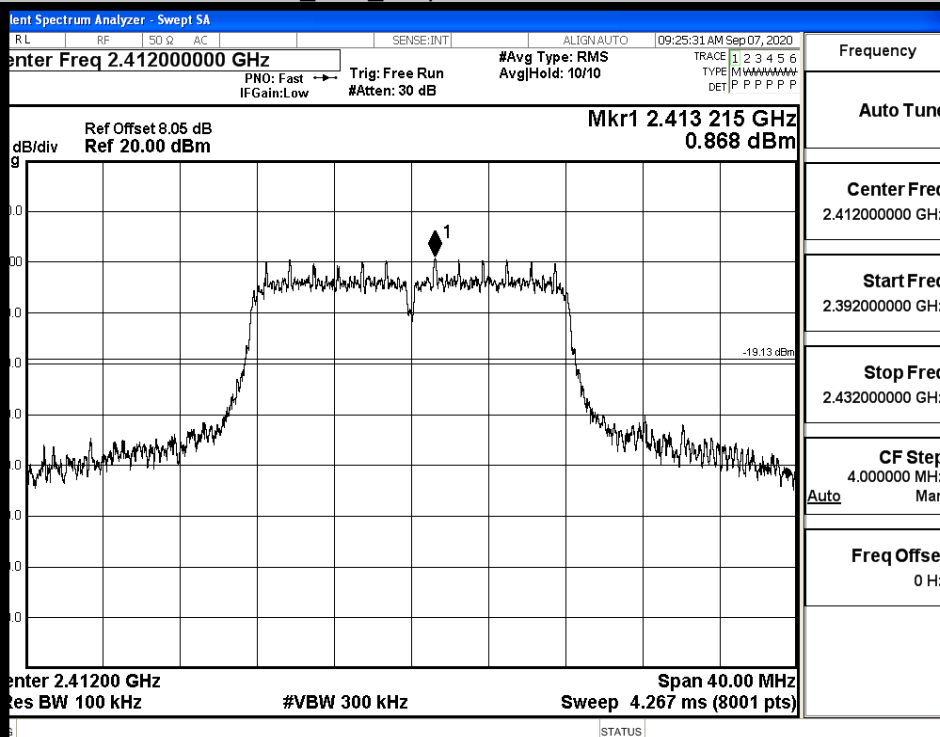


Puw/11B/HCH

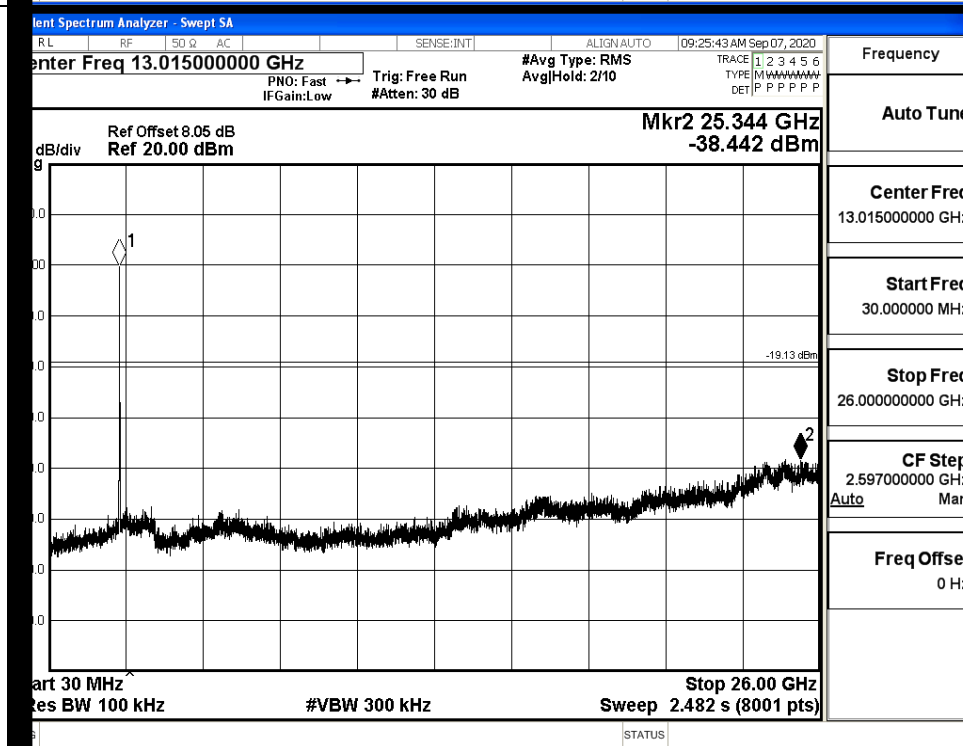


11G LCH Graphs

Pref/11G/LCH

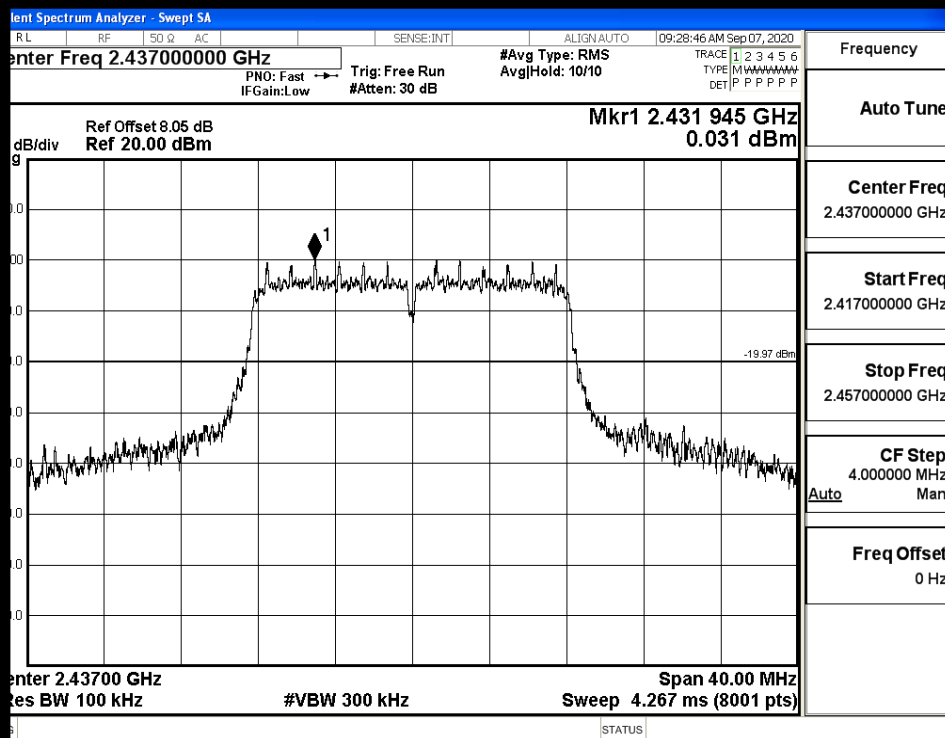


Puw/11G/LCH

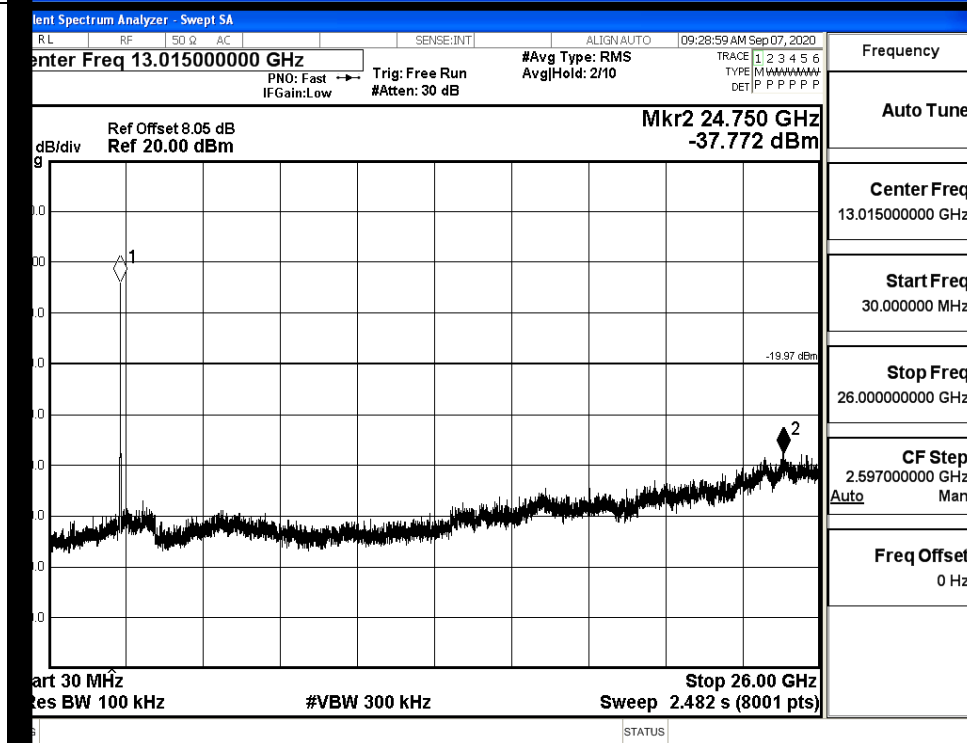


11G_MCH_Graphs

Pref/11G/MCH

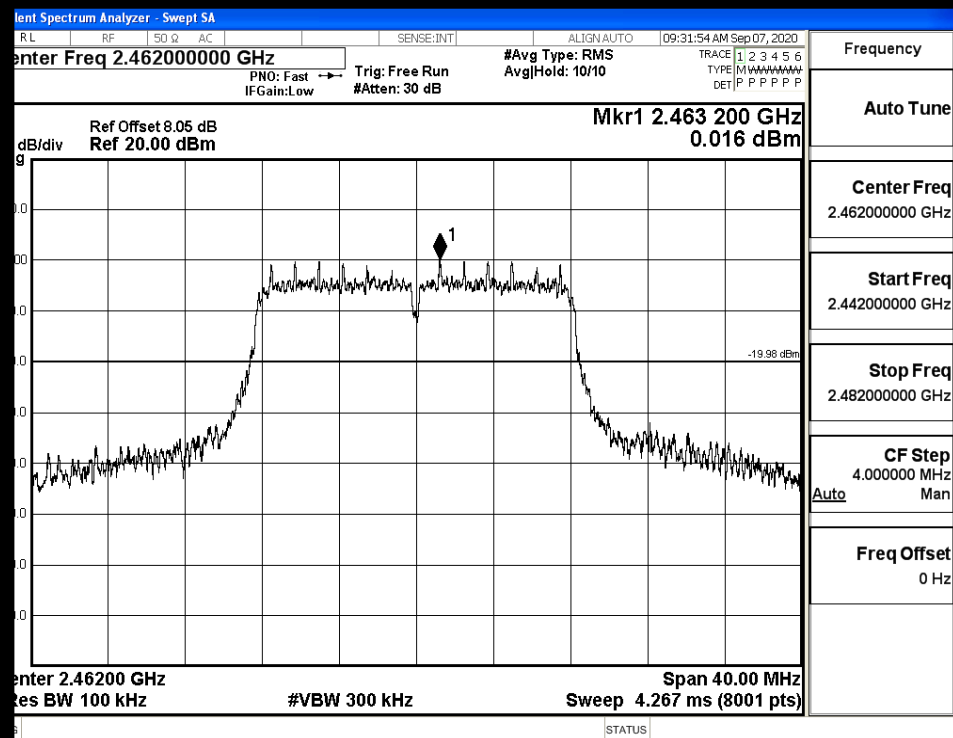


Puw/11G/MCH

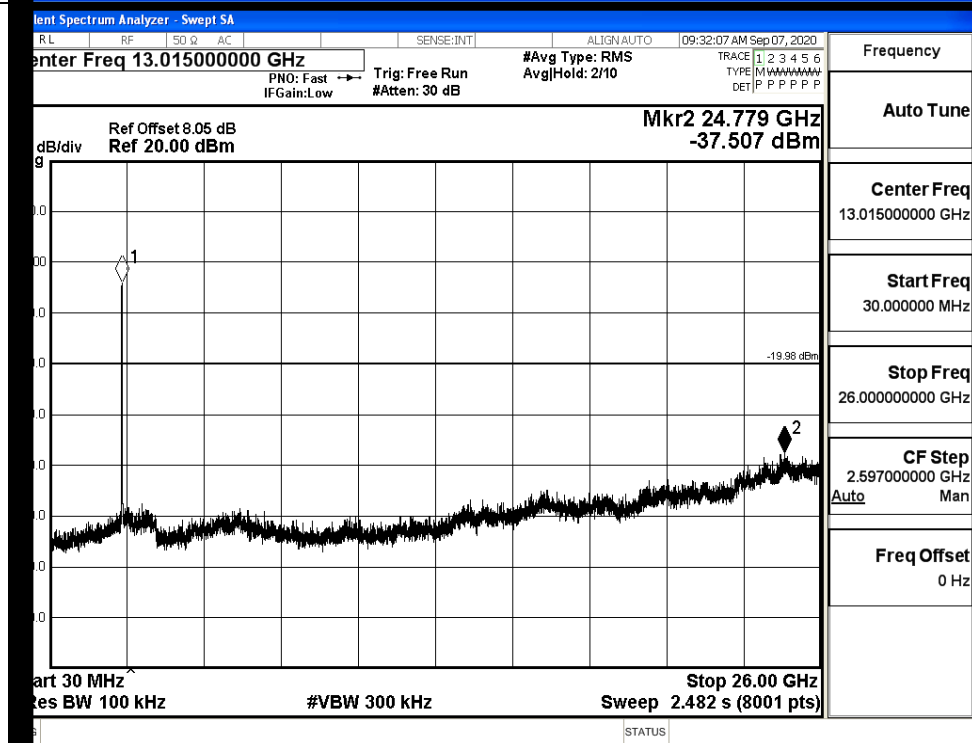


11G HCH Graphs

Pref/11G/HCH

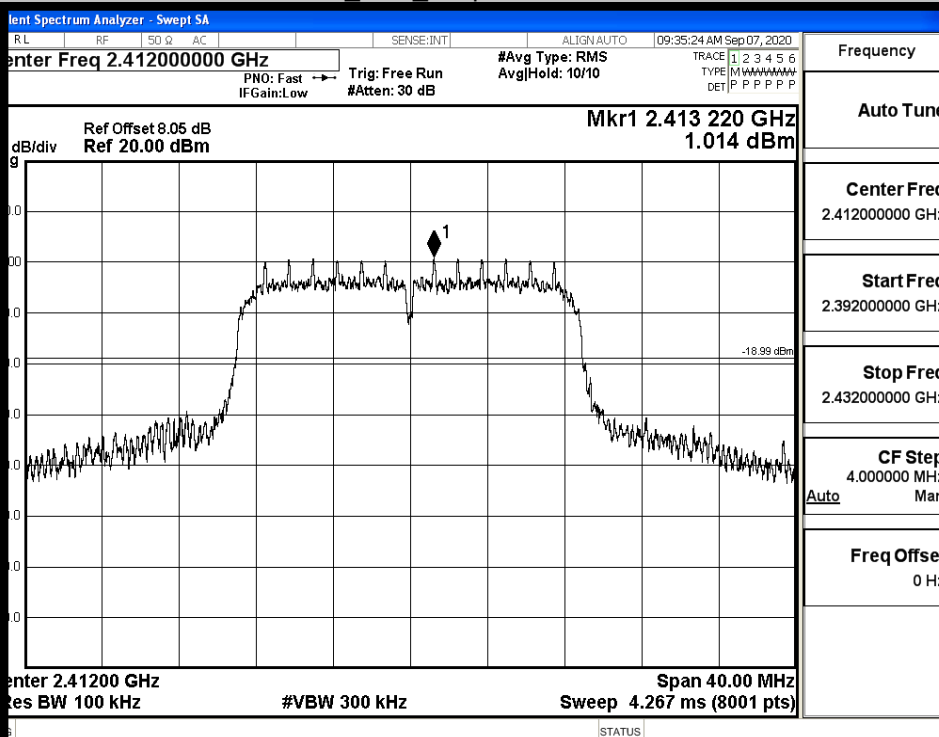


Puw/11G/HCH

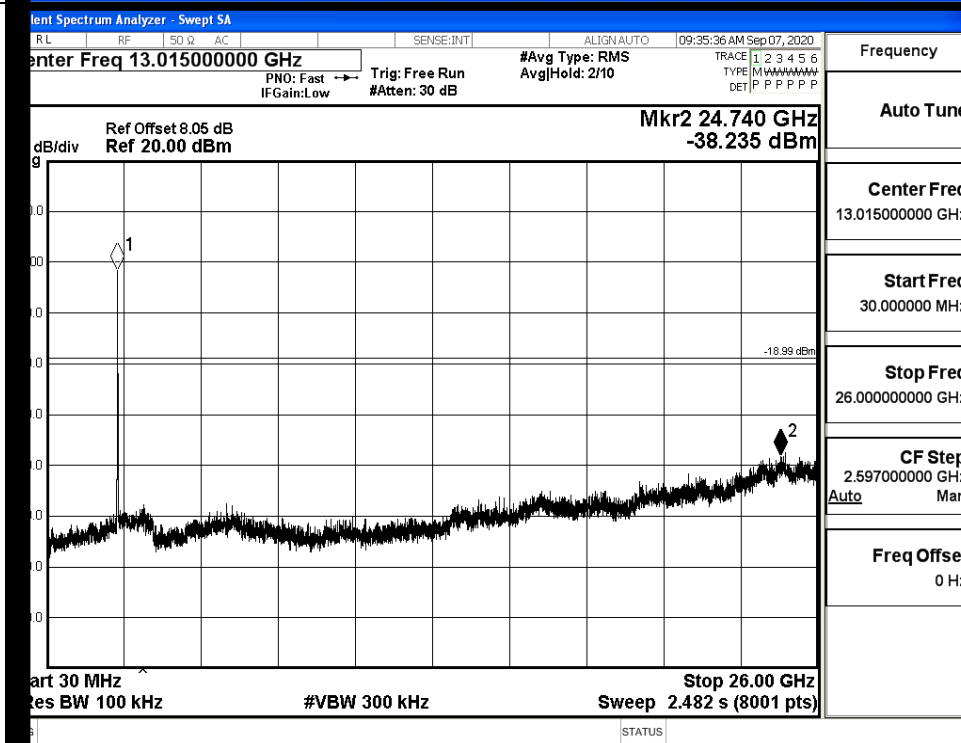


11N20SISO LCH Graphs

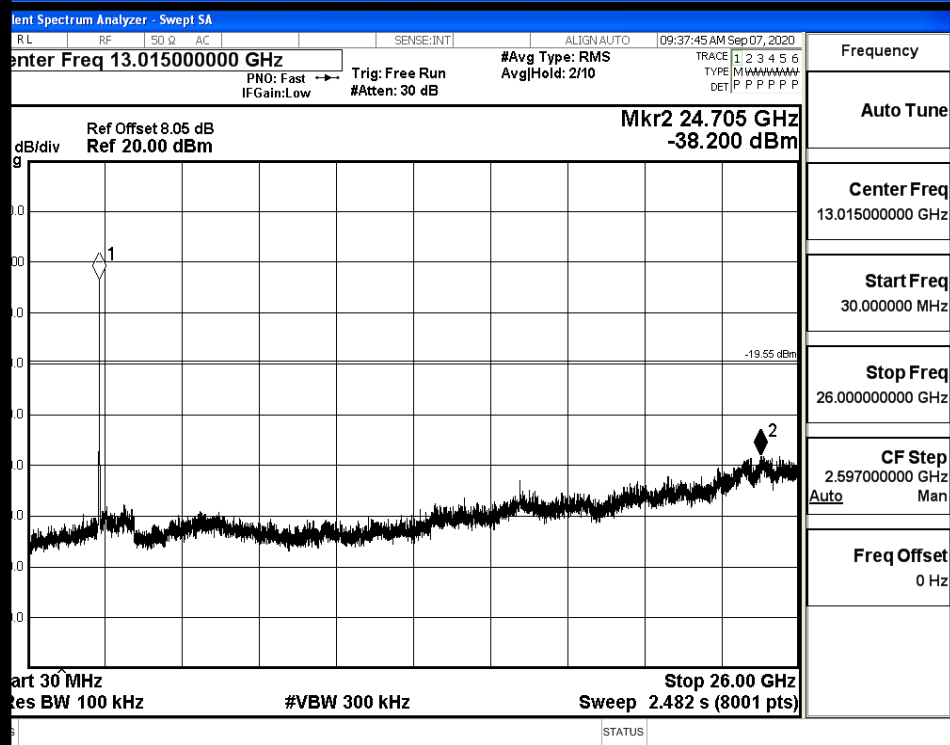
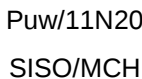
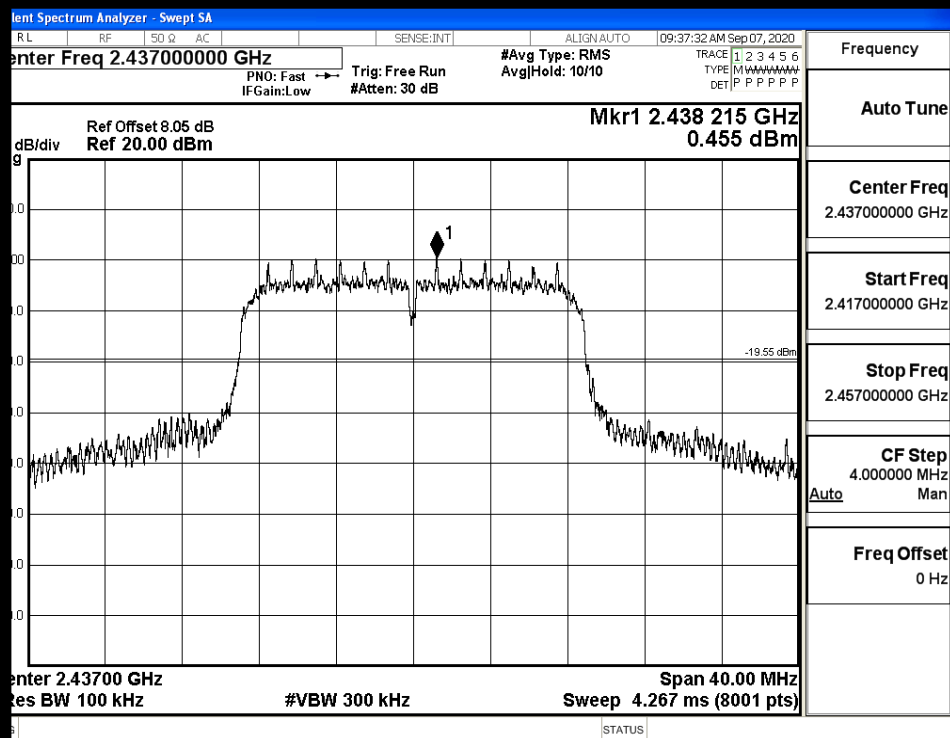
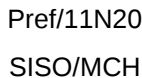
Pref/11N20SIS
O/LCH



Puw/11N20
SISO/LCH

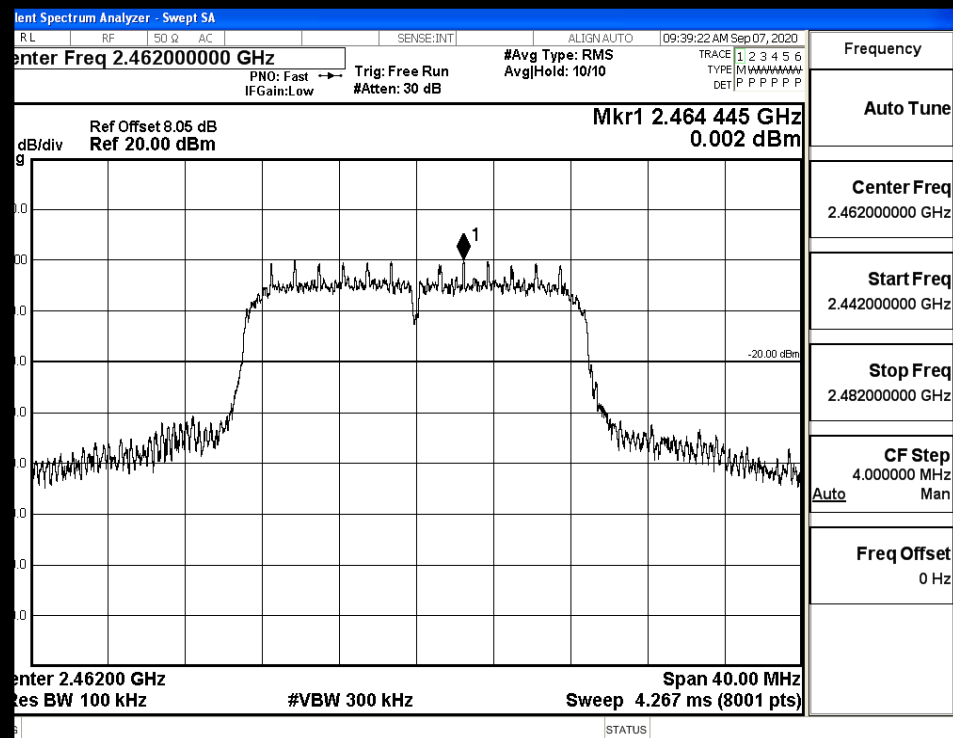


11N20SISO_MCH_Graphs

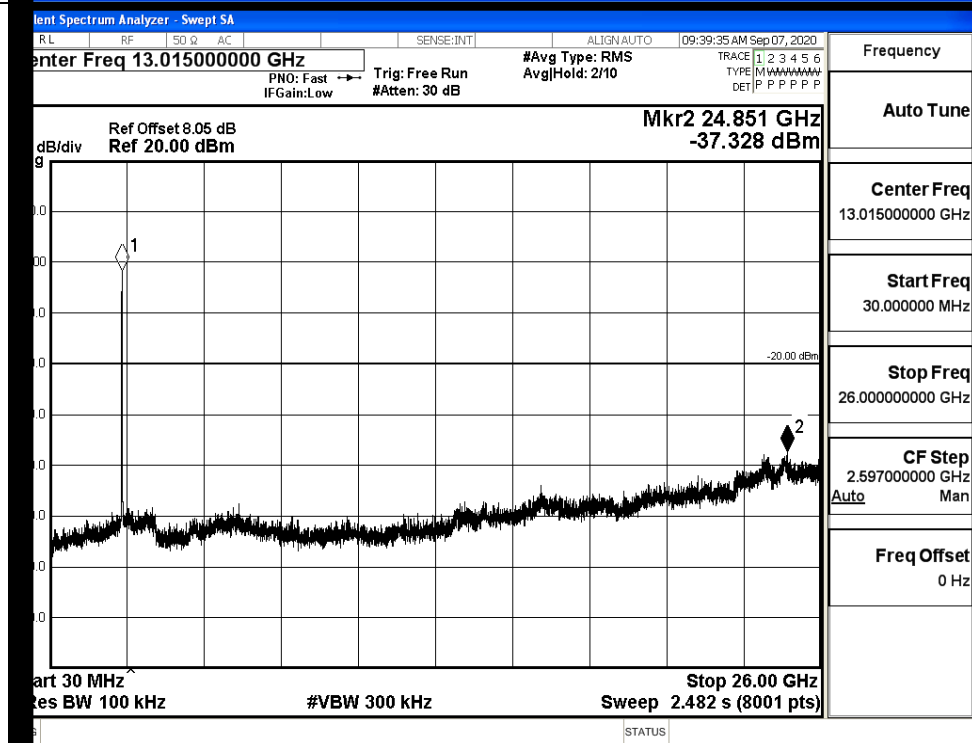


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH



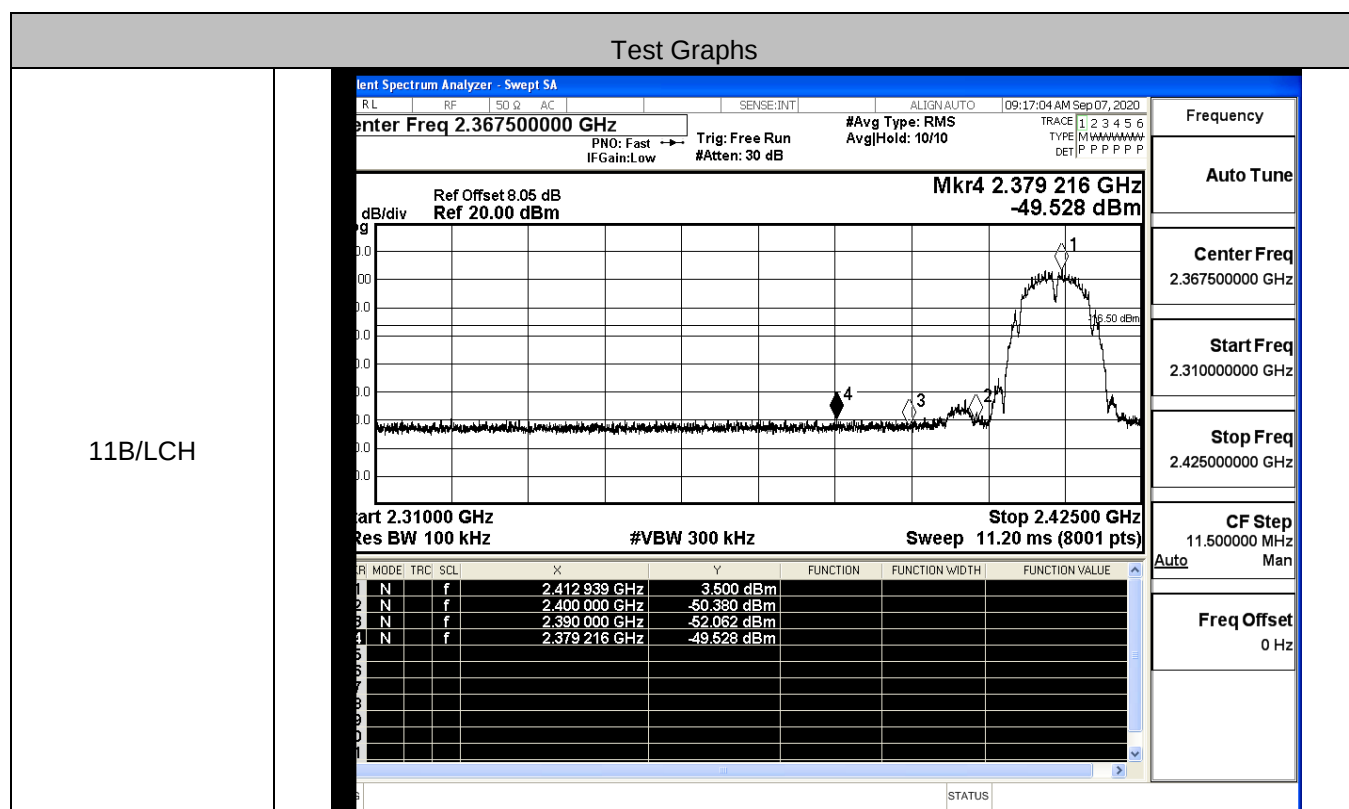
Puw/11N20
SISO/HCH



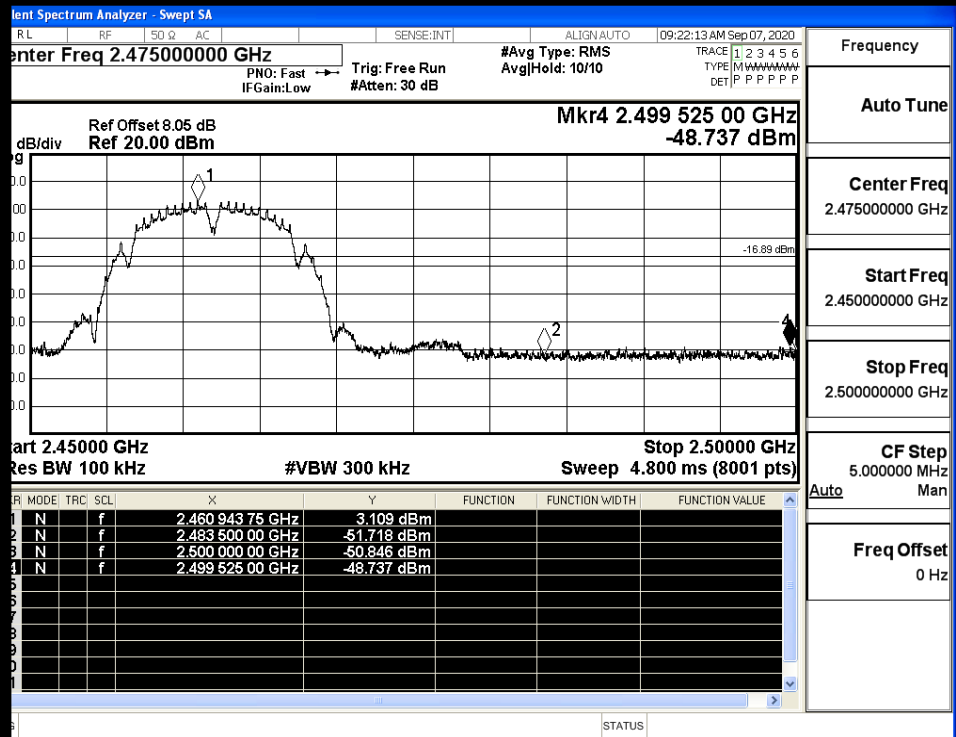
A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	3.500	-49.528	-16.5	PASS
	HCH	3.109	-48.737	-16.89	PASS
11G	LCH	0.552	-41.596	-19.45	PASS
	HCH	0.157	-41.967	-19.84	PASS
11N20SISO	LCH	1.108	-40.141	-18.89	PASS
	HCH	0.225	-42.554	-19.78	PASS

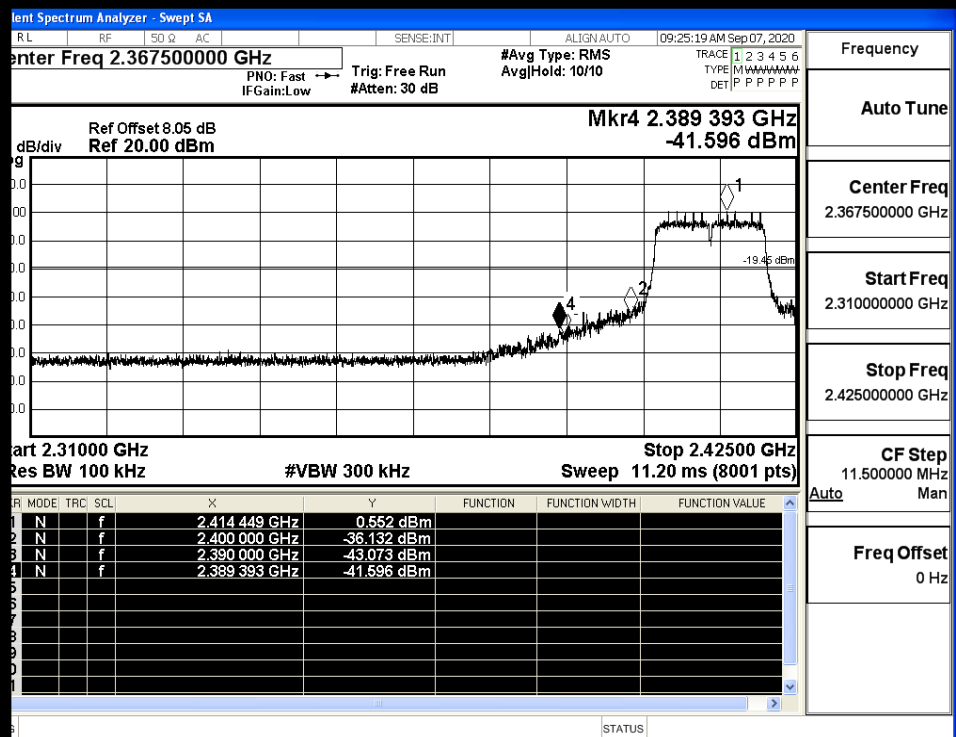
Test Graphs



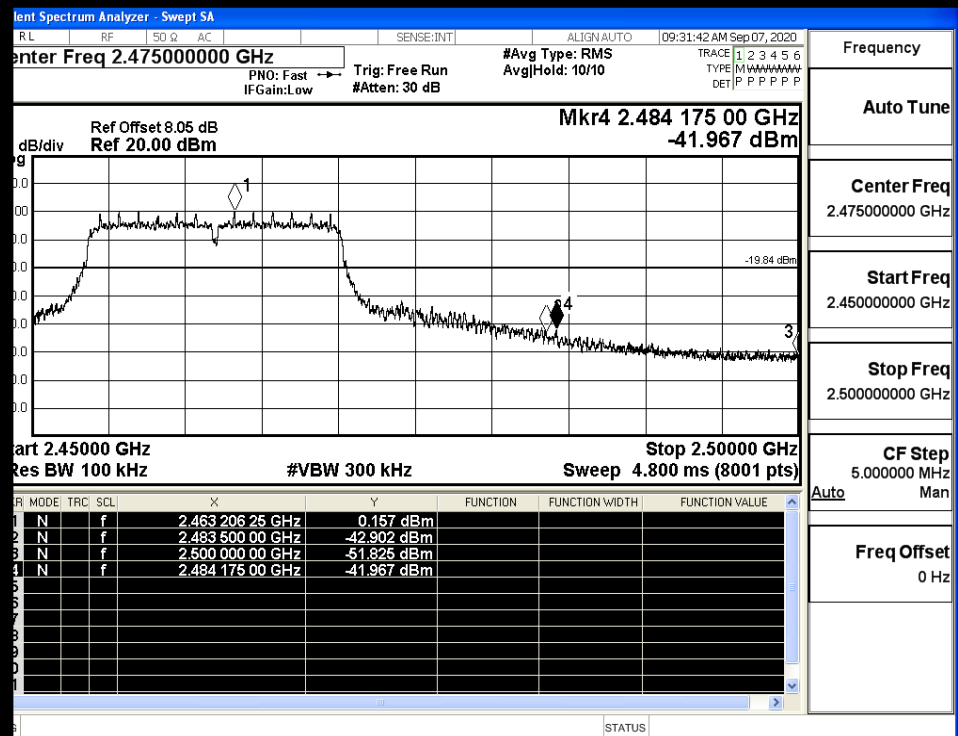
11B/HCH



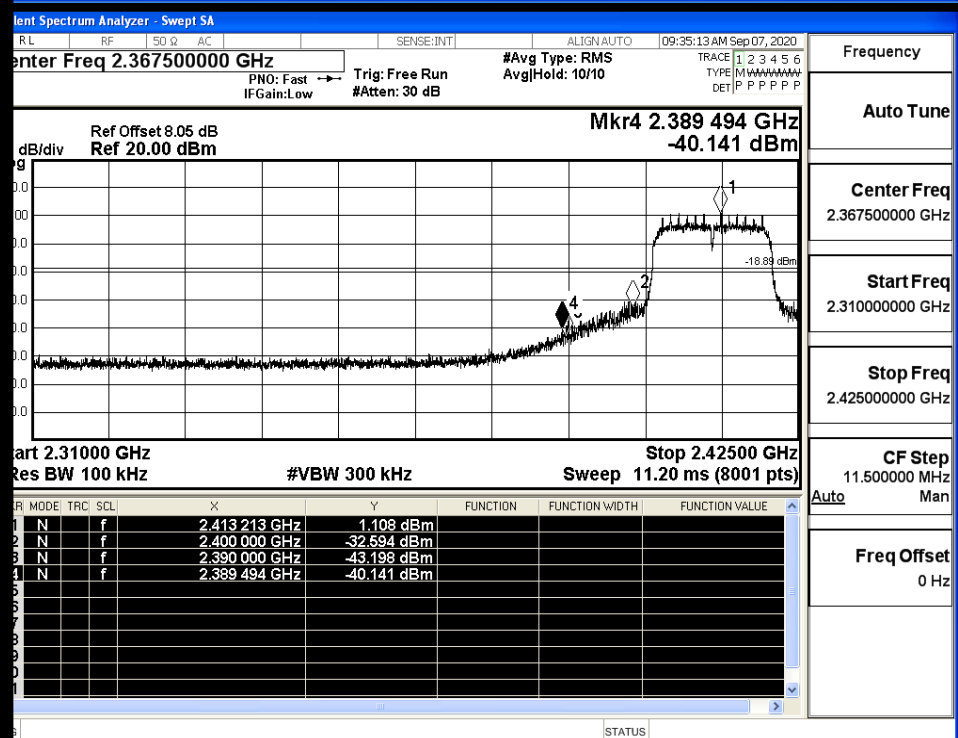
11G/LCH



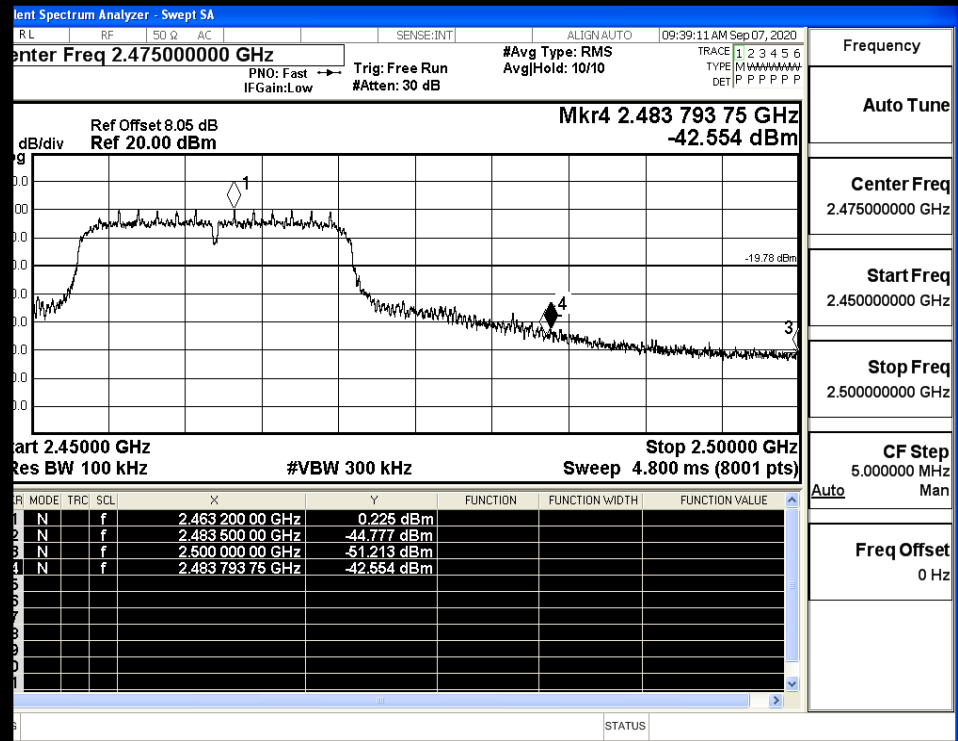
11G/HCH



11N20SISO/LCH



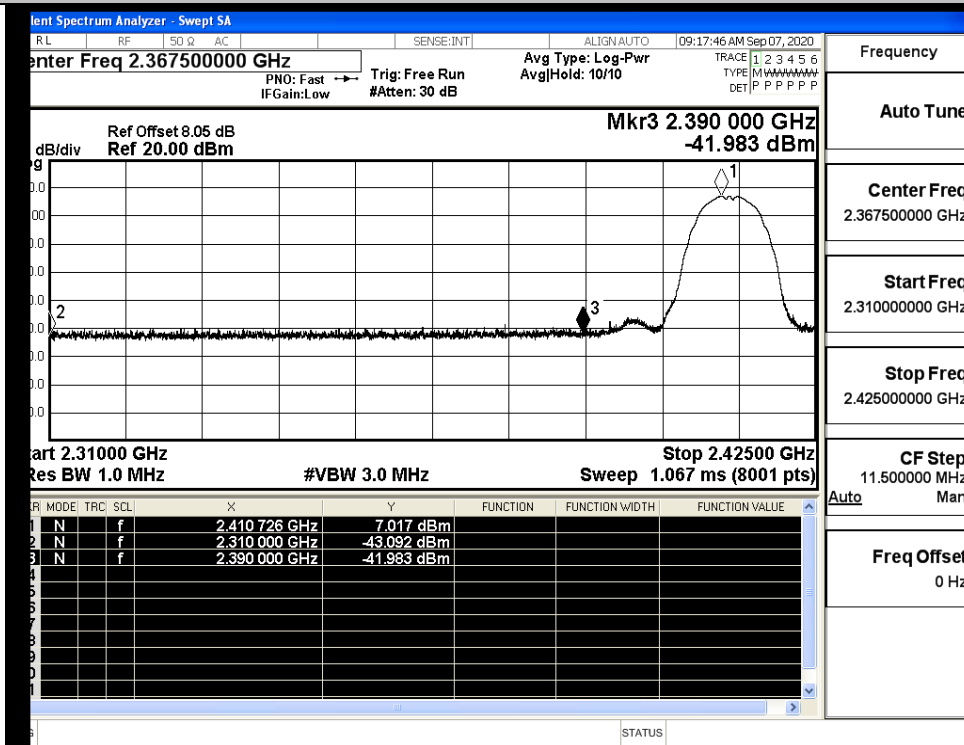
11N20SISO/HCH



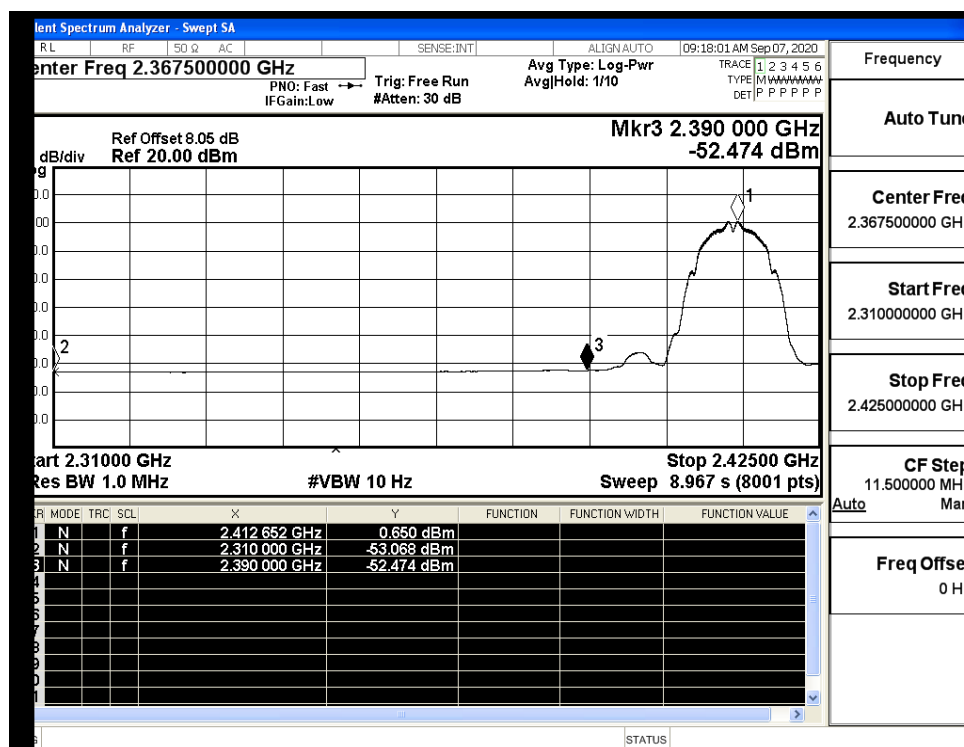
A.7 Restrict-band band-edge measurements

Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.09	2.5	0	54.67	PEAK	74	PASS
	2412	Ant1	2310.0	-53.07	2.5	0	44.69	AV	54	PASS
	2412	Ant1	2390.0	-41.98	2.5	0	55.78	PEAK	74	PASS
	2412	Ant1	2390.0	-52.47	2.5	0	45.29	AV	54	PASS
	2462	Ant1	2483.5	-41.15	2.5	0	56.61	PEAK	74	PASS
	2462	Ant1	2483.5	-52.29	2.5	0	45.47	AV	54	PASS
	2462	Ant1	2500.0	-41.23	2.5	0	56.53	PEAK	74	PASS
	2462	Ant1	2500.0	-52.11	2.5	0	45.65	AV	54	PASS
11G	2412	Ant1	2310.0	-41.84	2.5	0	55.92	PEAK	74	PASS
	2412	Ant1	2310.0	-53.08	2.5	0	44.68	AV	54	PASS
	2412	Ant1	2390.0	-28.19	2.5	0	69.57	PEAK	74	PASS
	2412	Ant1	2390.0	-46.46	2.5	0	51.3	AV	54	PASS
	2462	Ant1	2483.5	-30.29	2.5	0	67.47	PEAK	74	PASS
	2462	Ant1	2483.5	-47.29	2.5	0	50.47	AV	54	PASS
	2462	Ant1	2500.0	-41.11	2.5	0	56.65	PEAK	74	PASS
	2462	Ant1	2500.0	-52.07	2.5	0	45.69	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.62	2.5	0	55.14	PEAK	74	PASS
	2412	Ant1	2310.0	-53.05	2.5	0	44.71	AV	54	PASS
	2412	Ant1	2390.0	-30.40	2.5	0	67.36	PEAK	74	PASS
	2412	Ant1	2390.0	-46.39	2.5	0	51.37	AV	54	PASS
	2462	Ant1	2483.5	-28.04	2.5	0	69.72	PEAK	74	PASS
	2462	Ant1	2483.5	-47.02	2.5	0	50.74	AV	54	PASS
	2462	Ant1	2500.0	-41.66	2.5	0	56.1	PEAK	74	PASS
	2462	Ant1	2500.0	-51.99	2.5	0	45.77	AV	54	PASS

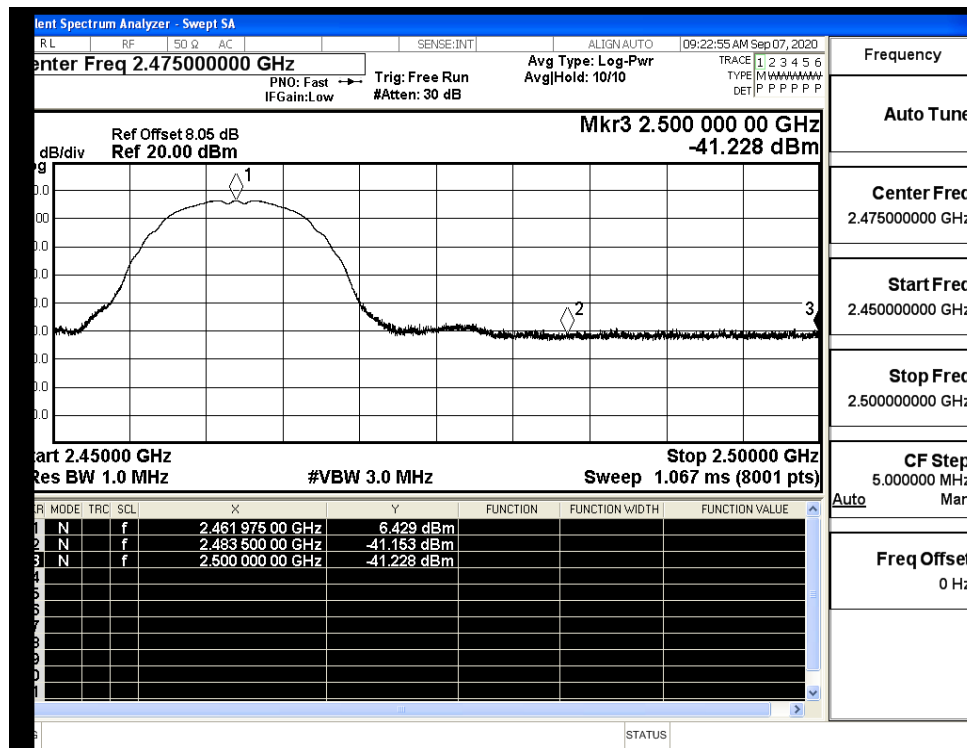
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



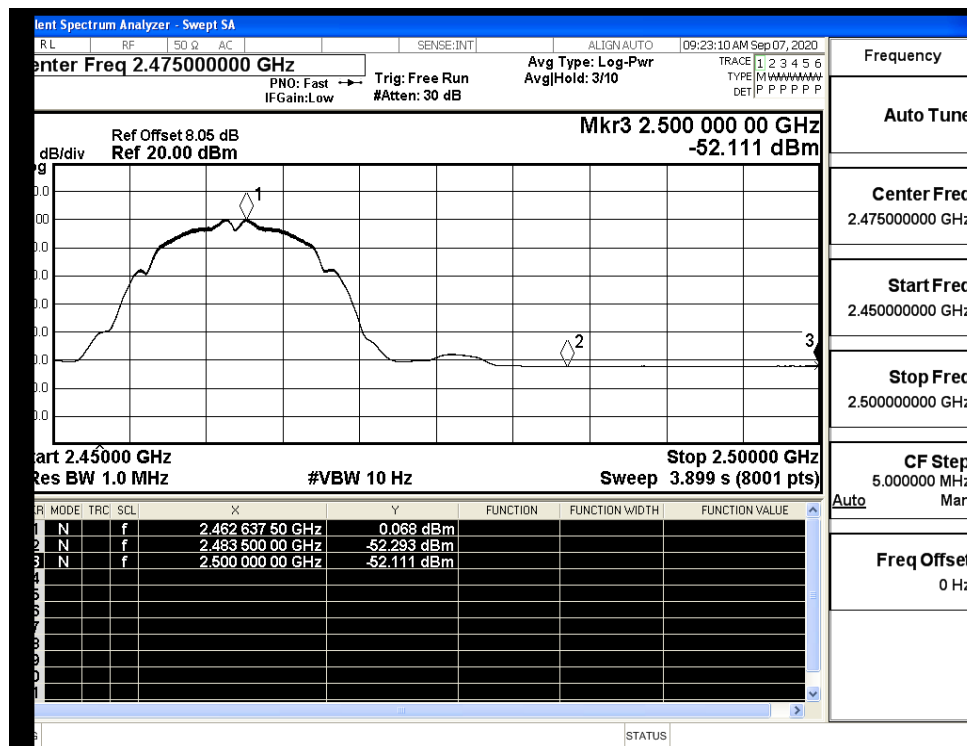
Restrict-band band-edge measurements_11B_2412_Ant1_AV



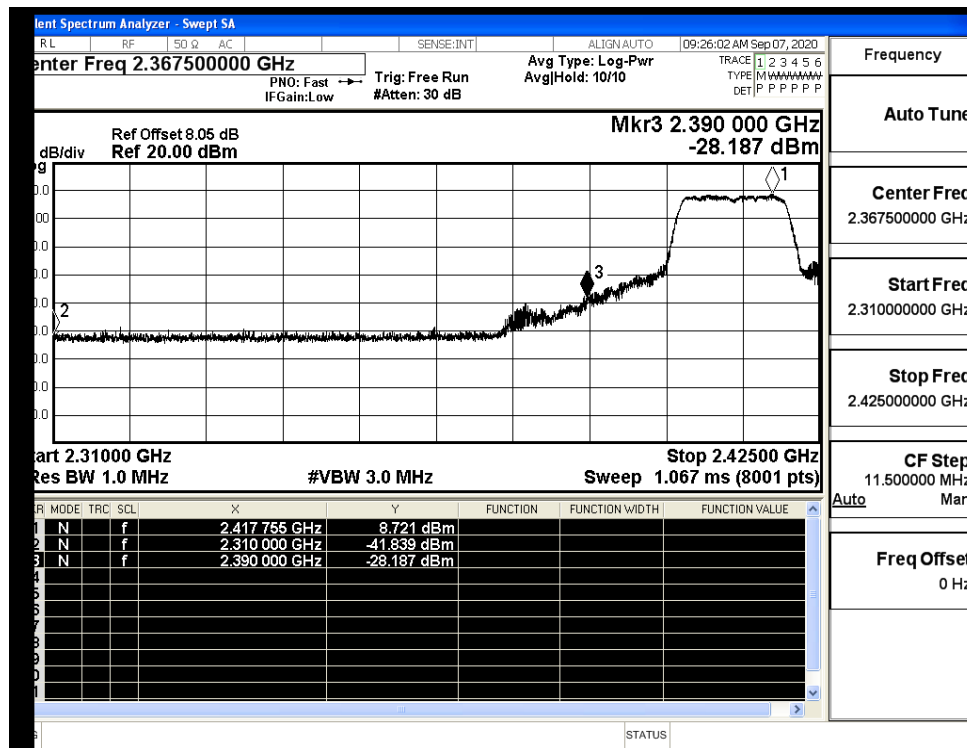
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



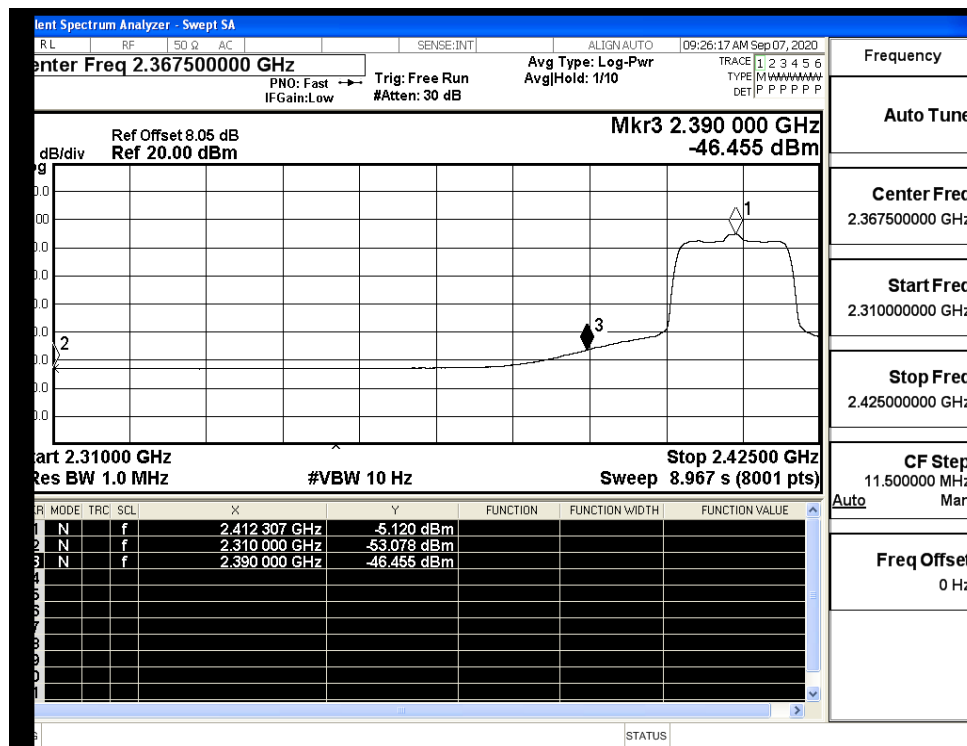
Restrict-band band-edge measurements_11B_2462_Ant1_AV



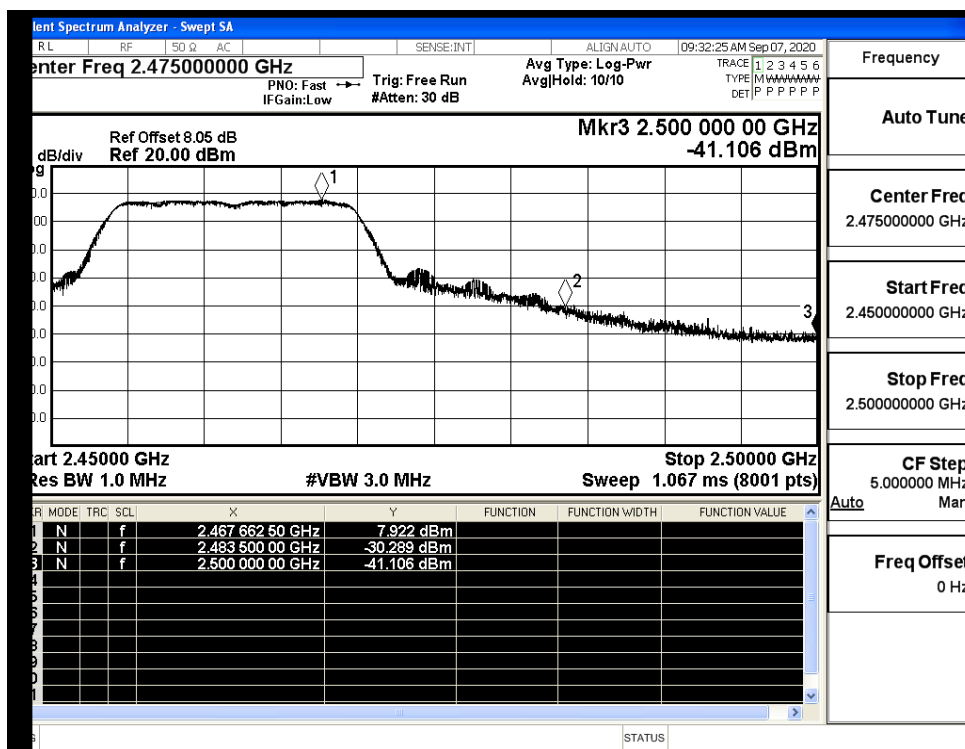
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



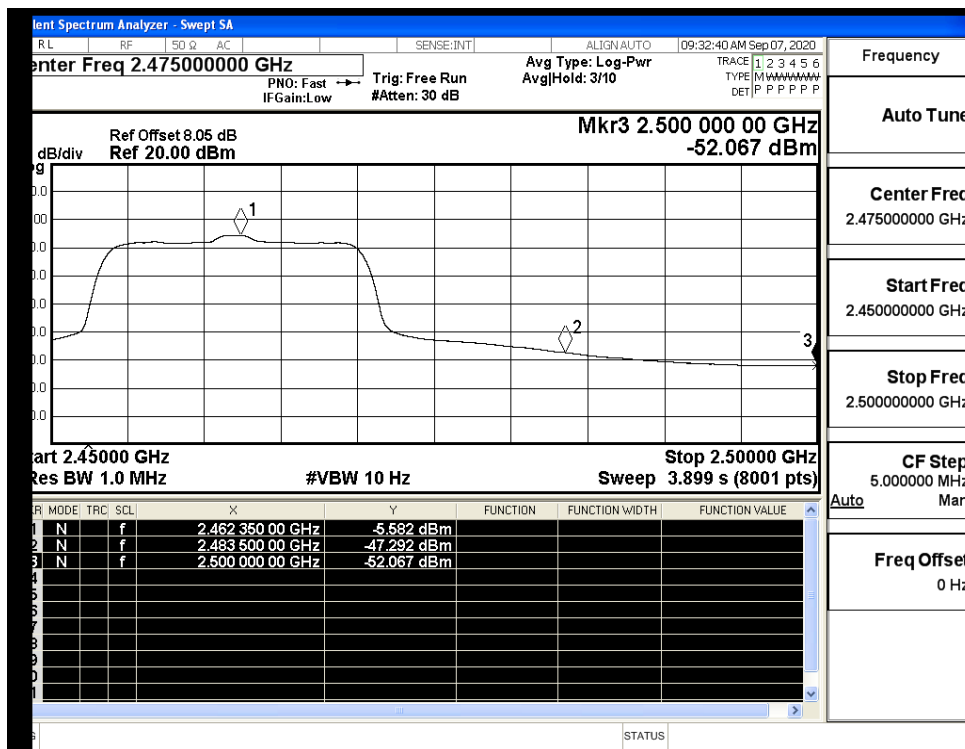
Restrict-band band-edge measurements_11G_2412_Ant1_AV



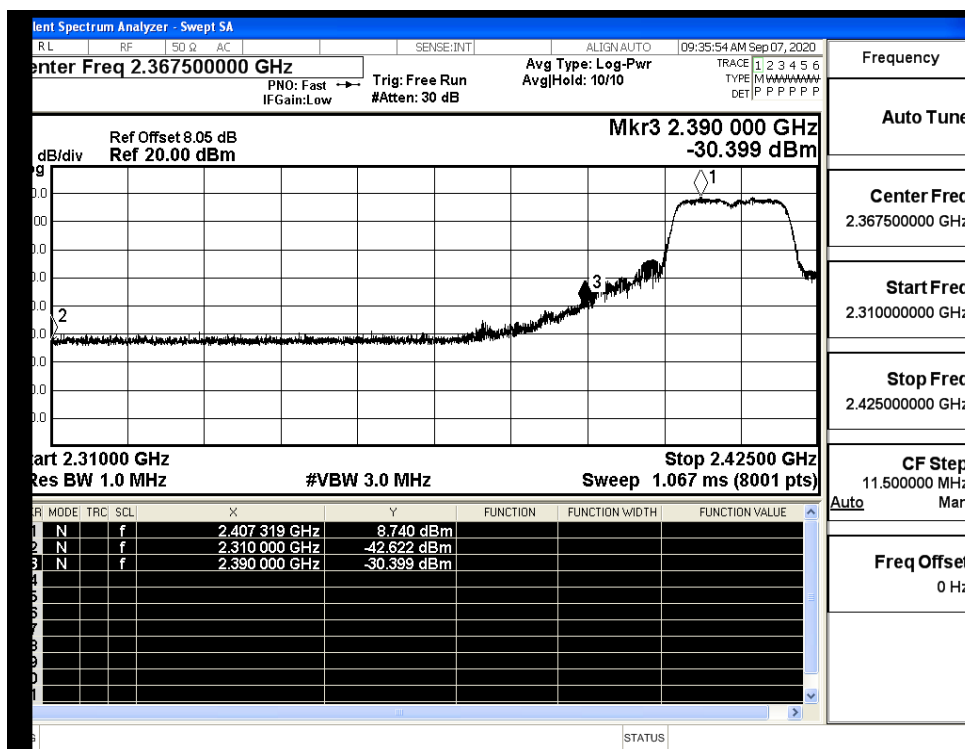
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



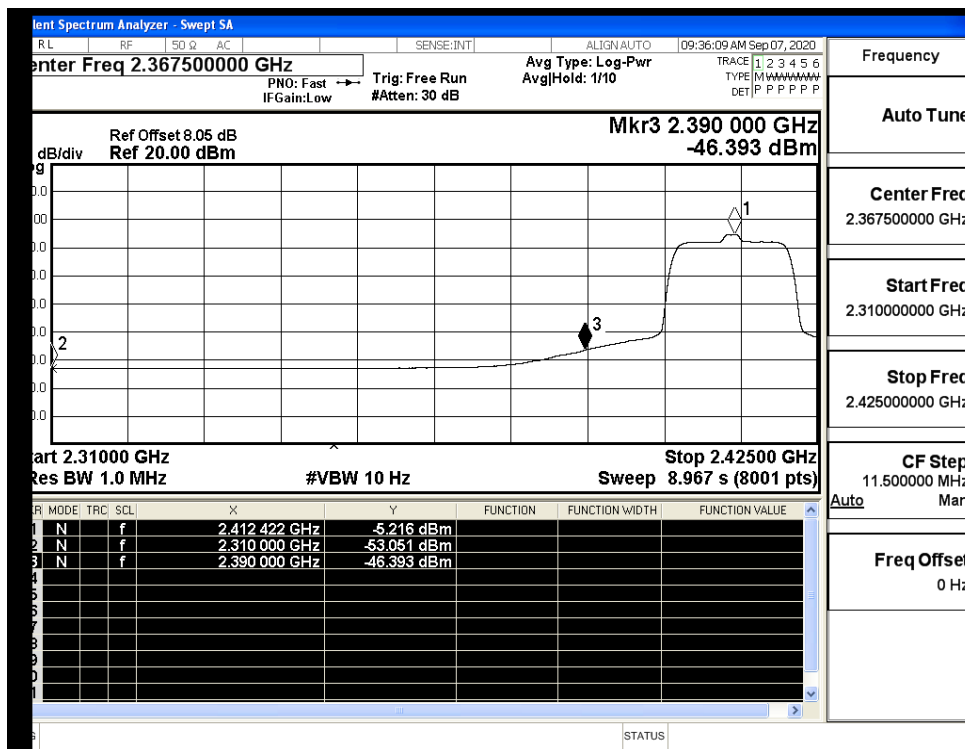
Restrict-band band-edge measurements_11G_2462_Ant1_AV



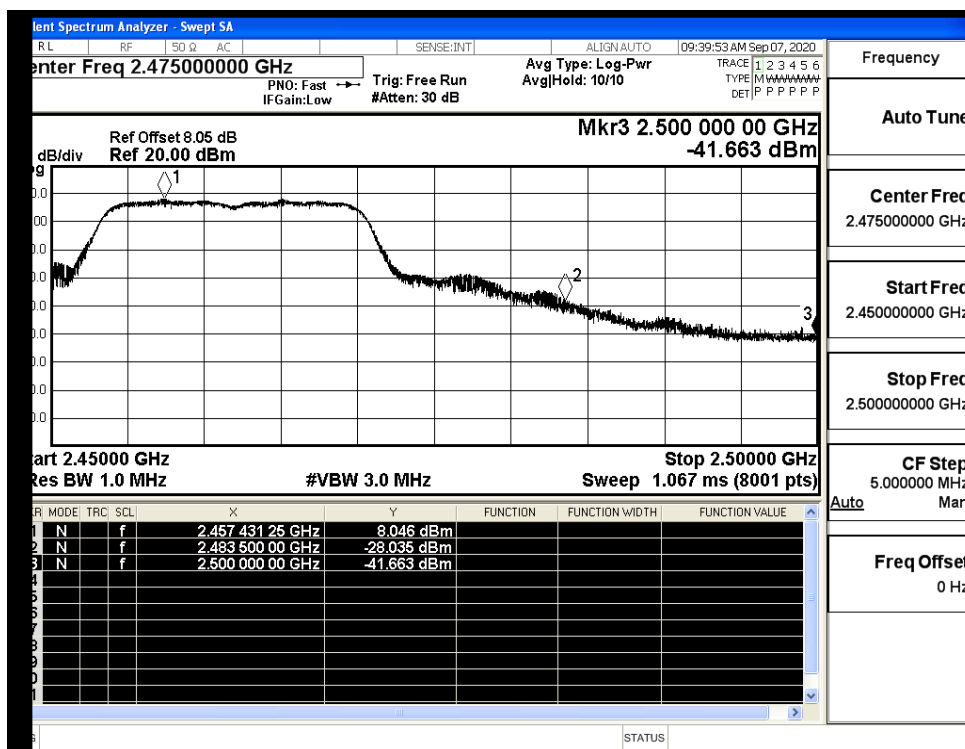
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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

