

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Auroratvbox

Trade Mark:  auroraTM

Test Model: A2

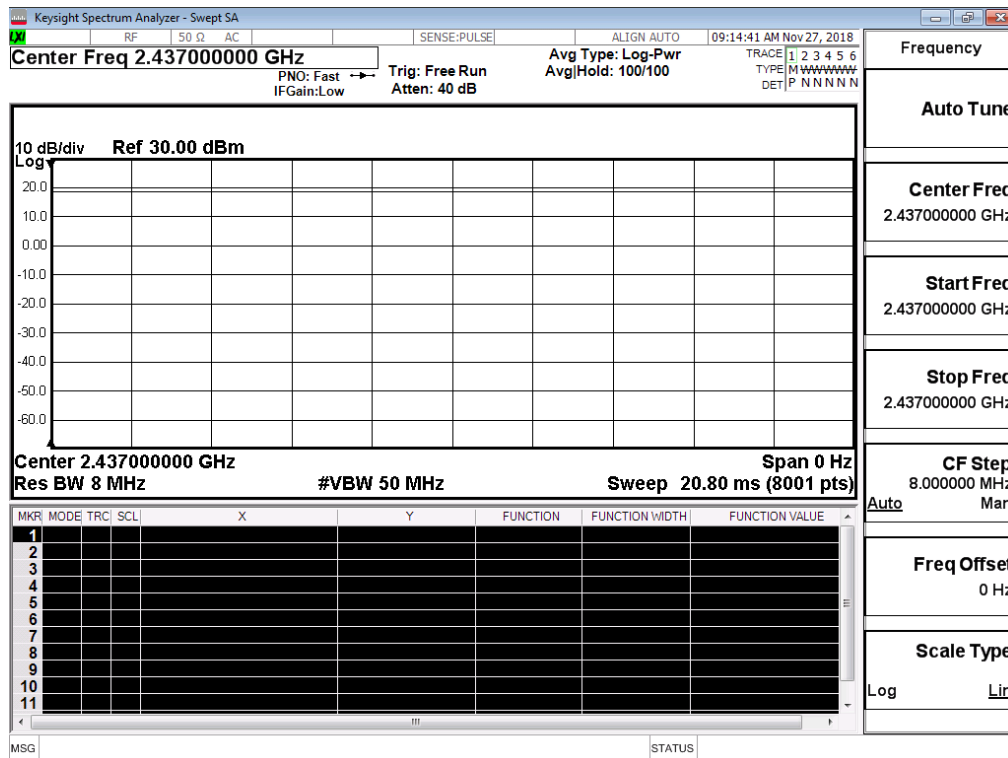
Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

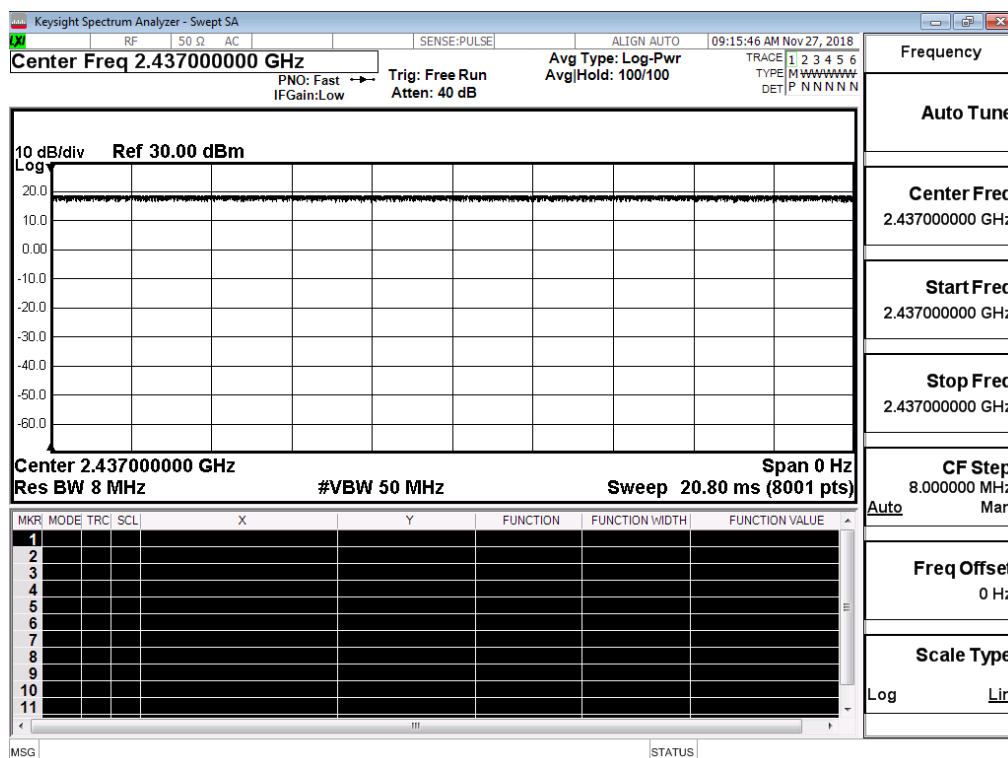
A.1 Duty Cycle

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

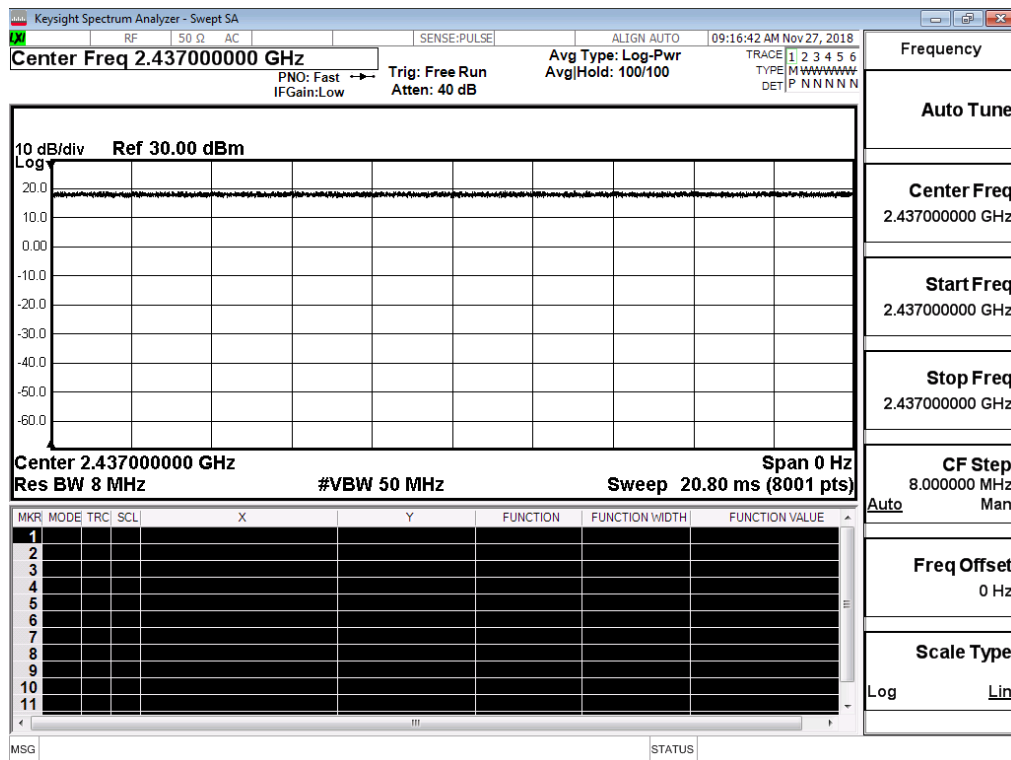
Duty Cycle_11B_2437_Ant1



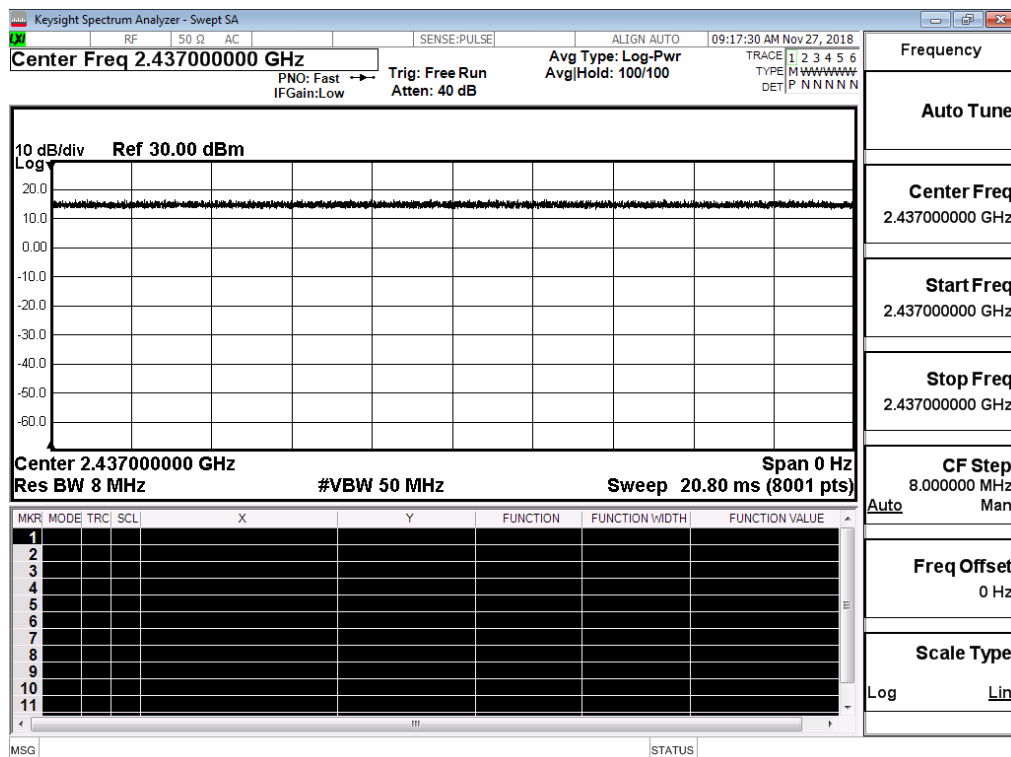
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



A.2 Maximum Conducted Output Power

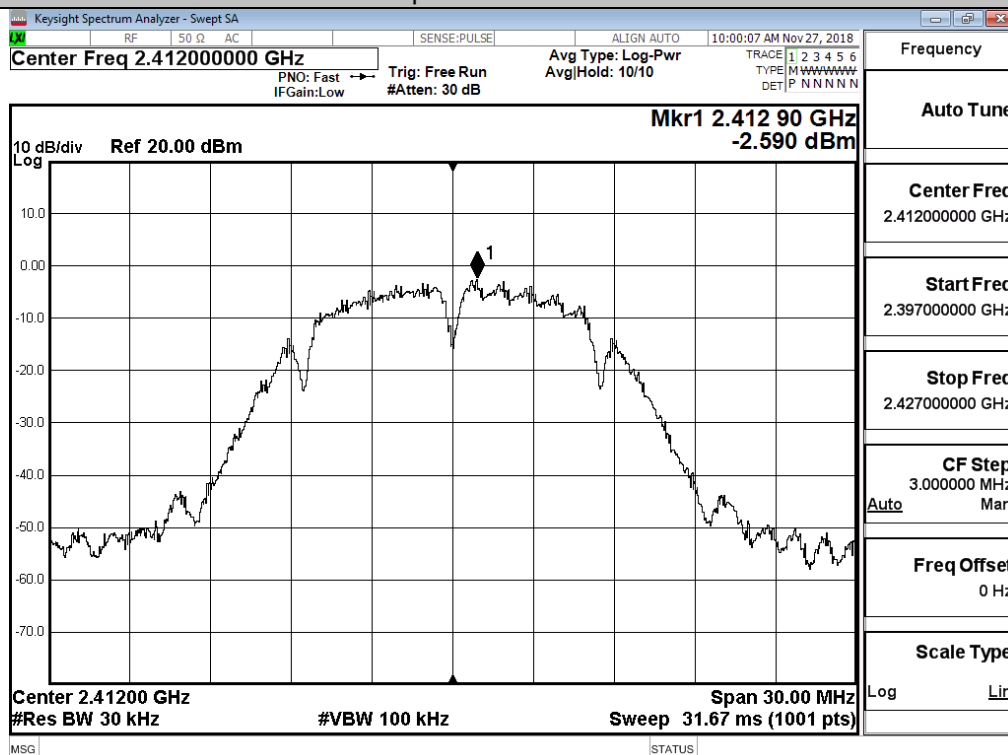
Mode	Channel	Meas. Peak Level [dBm]	Limit [dBm]	Verdict
11B	LCH	16.20	30	PASS
	MCH	15.55	30	PASS
	HCH	15.23	30	PASS
11G	LCH	15.11	30	PASS
	MCH	15.17	30	PASS
	HCH	15.02	30	PASS
11N20SISO	LCH	12.78	30	PASS
	MCH	12.32	30	PASS
	HCH	12.43	30	PASS
11N40SISO	LCH	11.61	30	PASS
	MCH	11.37	30	PASS
	HCH	11.19	30	PASS

A.3 Maximum Power Spectral Density

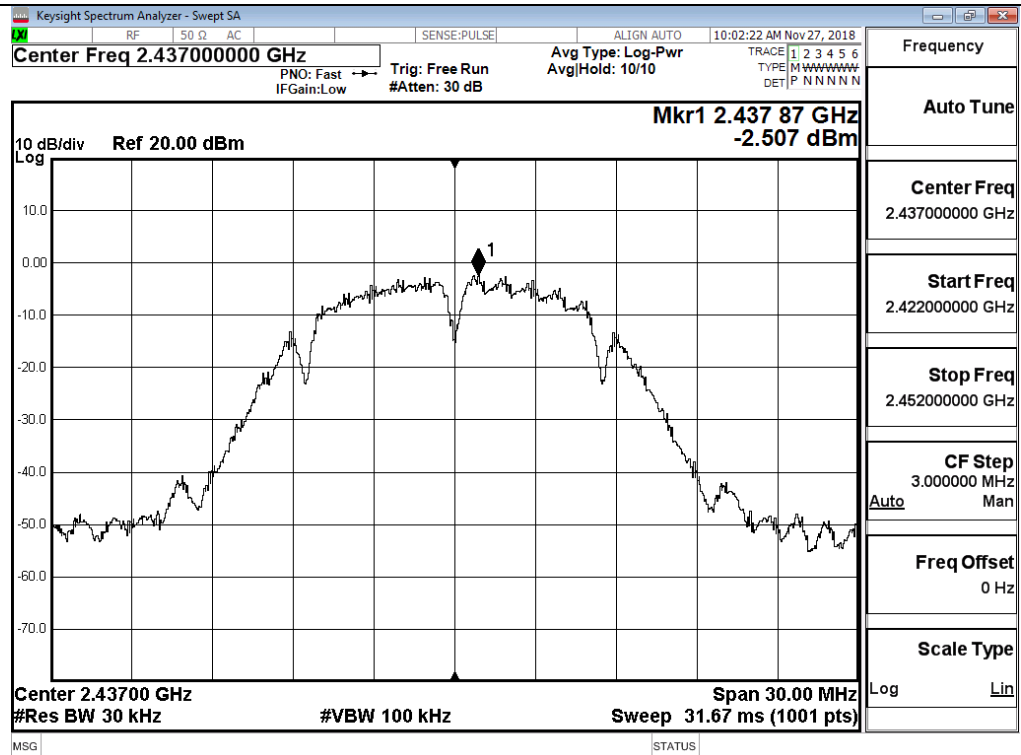
Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-2.590	8	PASS
	MCH	-2.507	8	PASS
	HCH	-3.362	8	PASS
11G	LCH	-7.815	8	PASS
	MCH	-7.268	8	PASS
	HCH	-7.349	8	PASS
11N20SISO	LCH	-8.332	8	PASS
	MCH	-7.943	8	PASS
	HCH	-8.454	8	PASS
11N40SISO	LCH	-13.445	8	PASS
	MCH	-14.263	8	PASS
	HCH	-14.789	8	PASS

Test Graphs

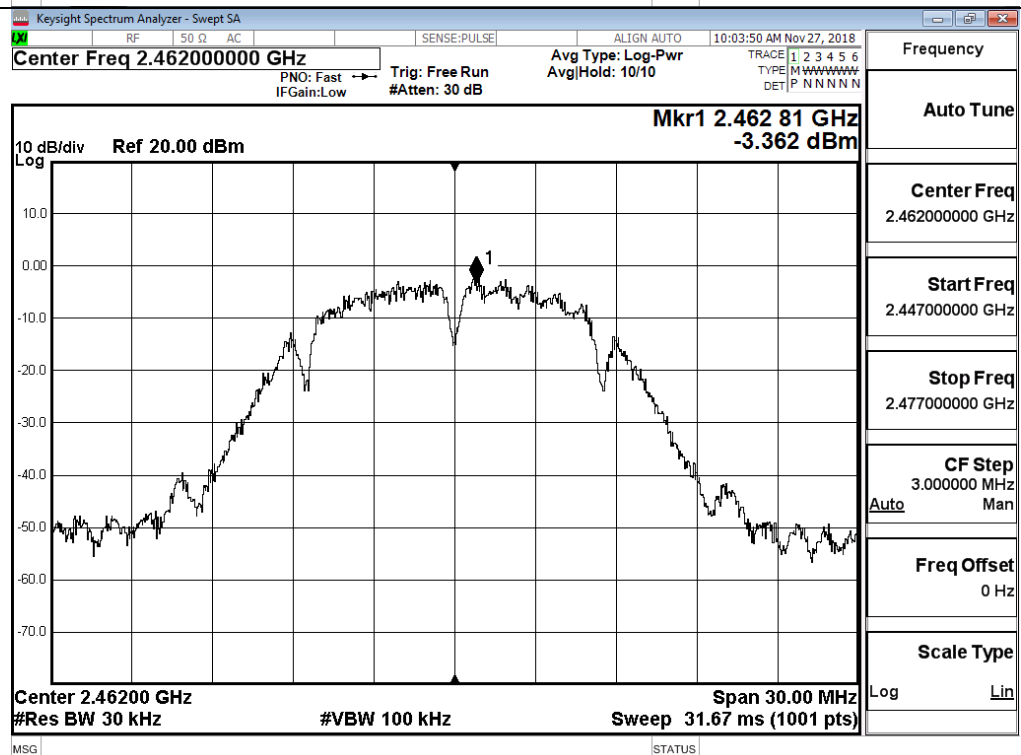
11B/LCH



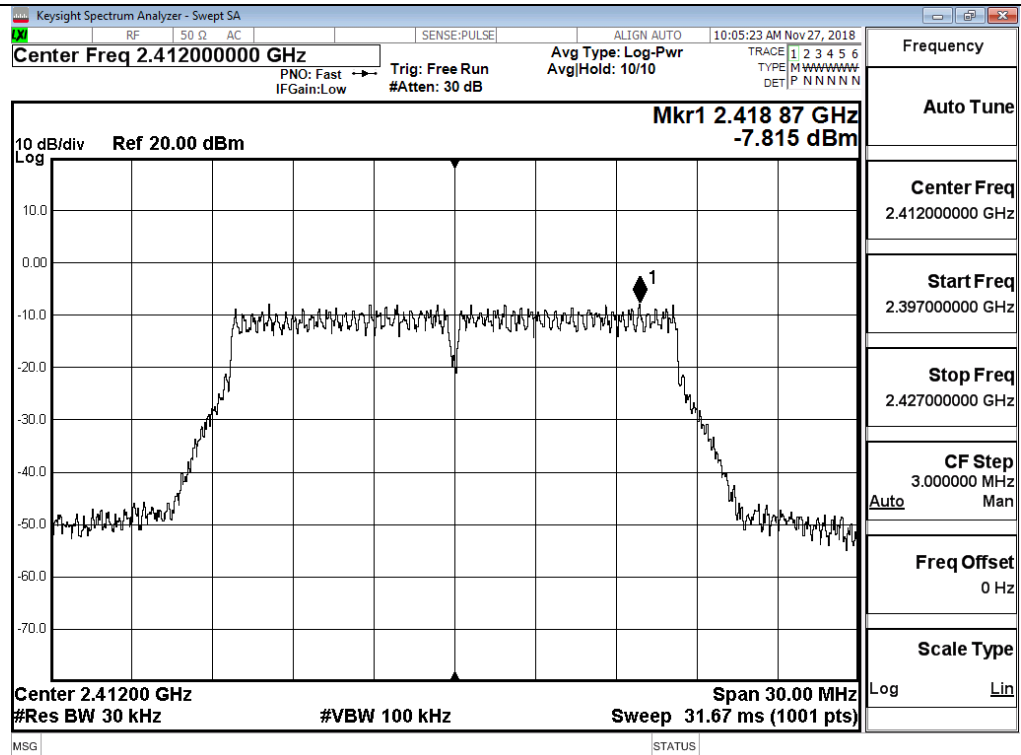
11B/MCH



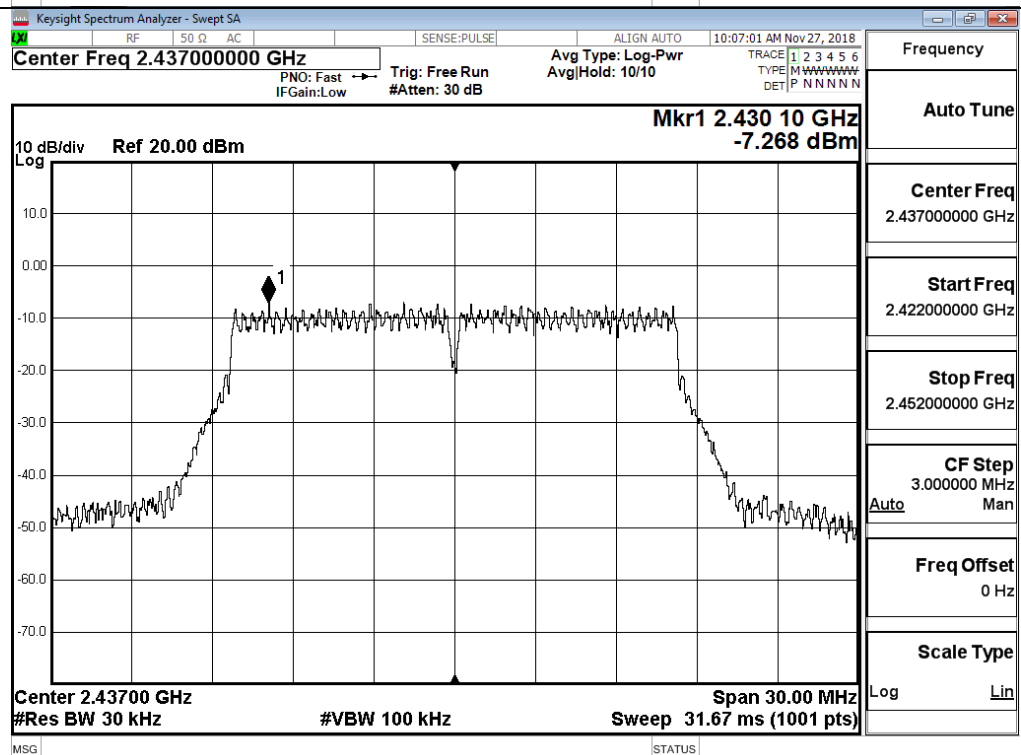
11B/HCH



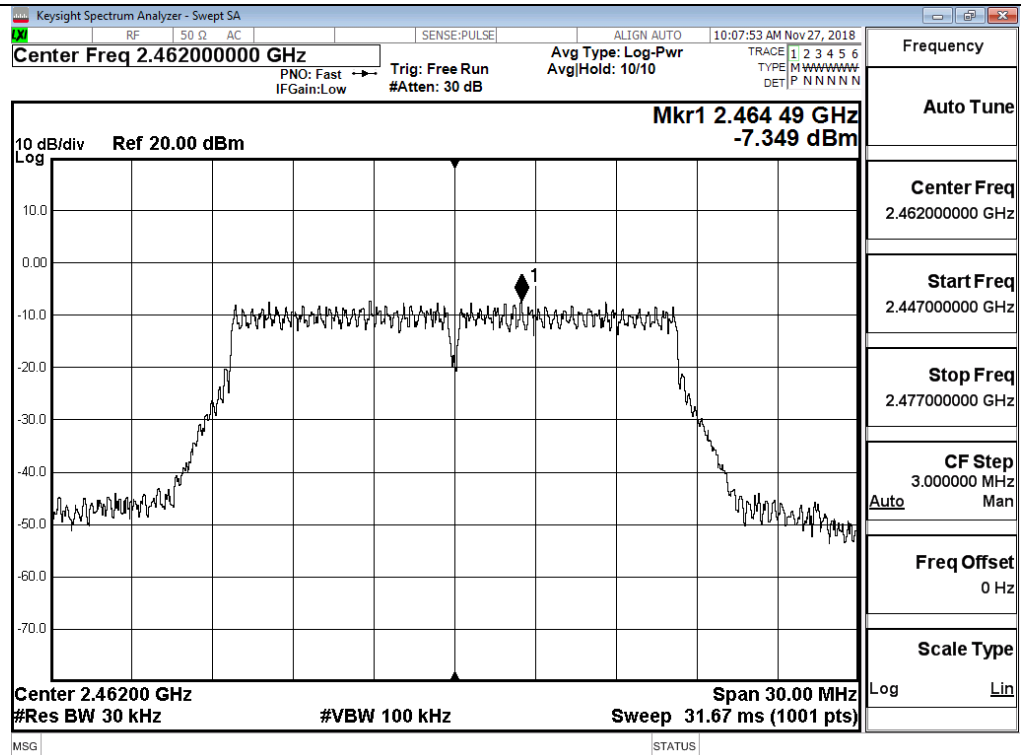
11G/LCH



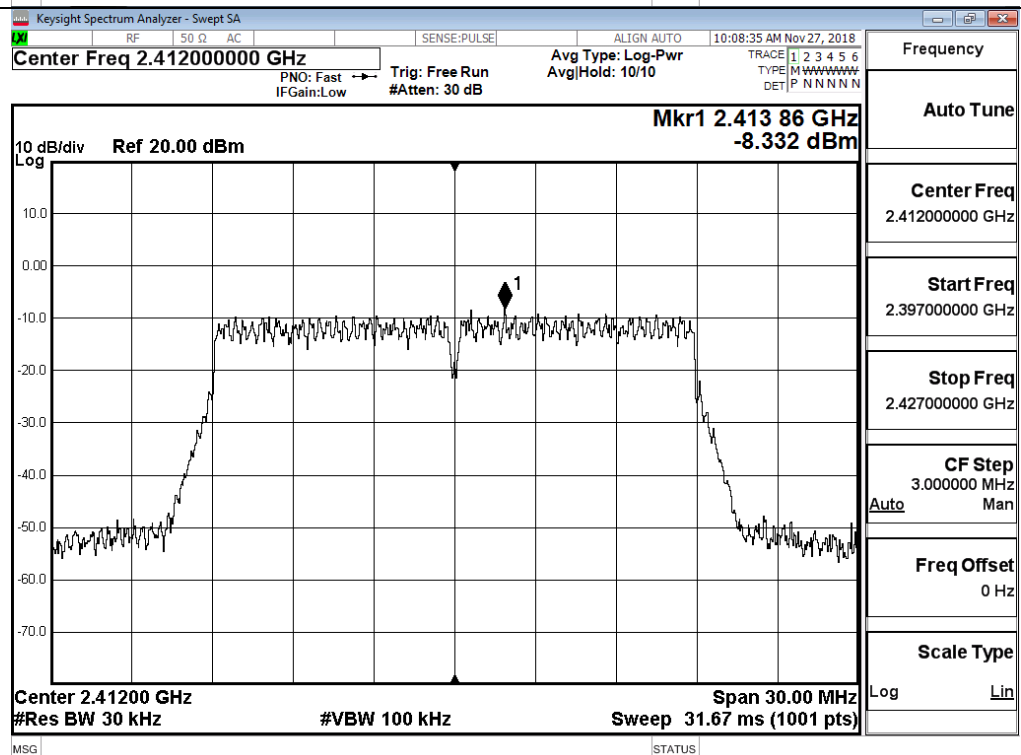
11G/MCH



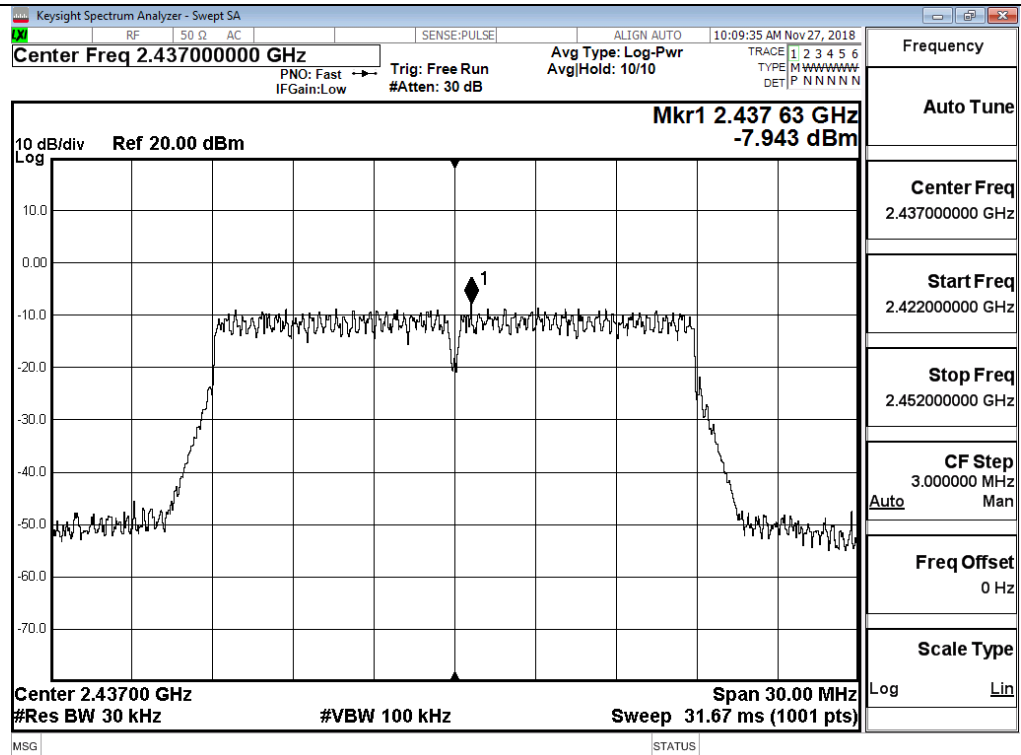
11G/HCH



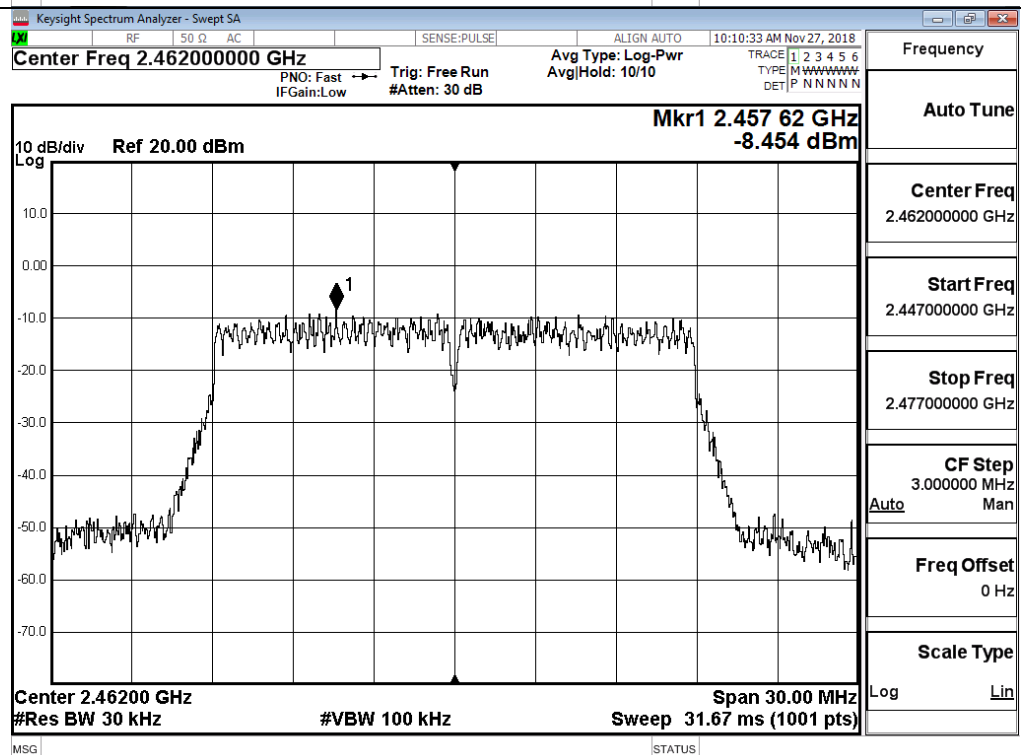
11N20SISO/LCH



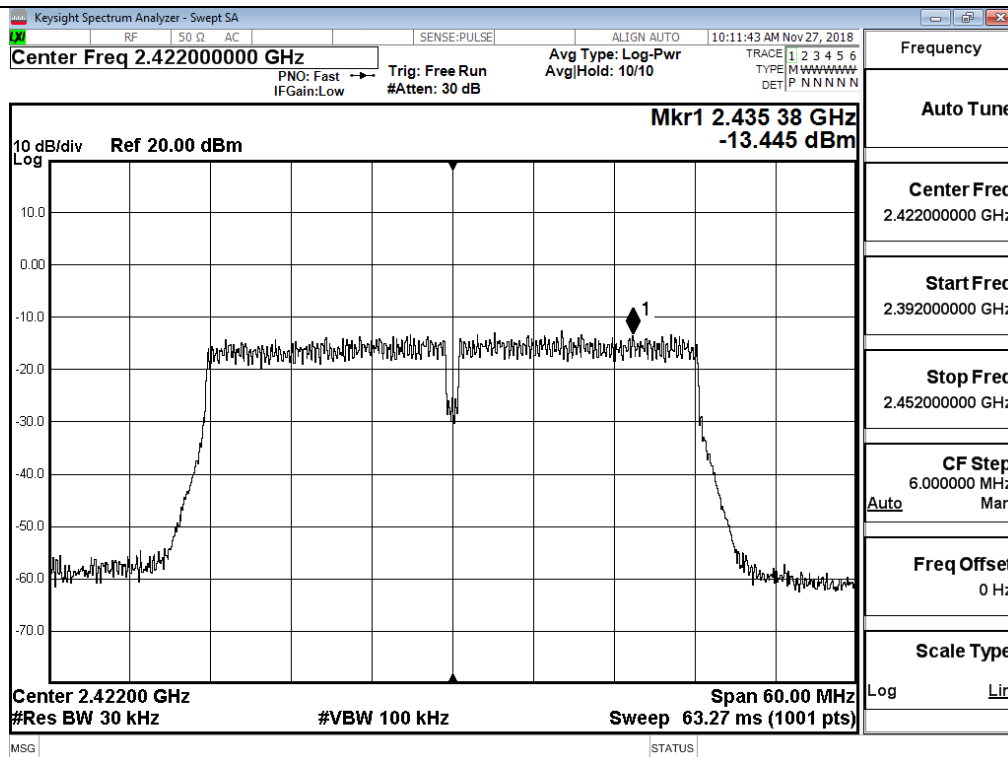
11N20SISO/MCH



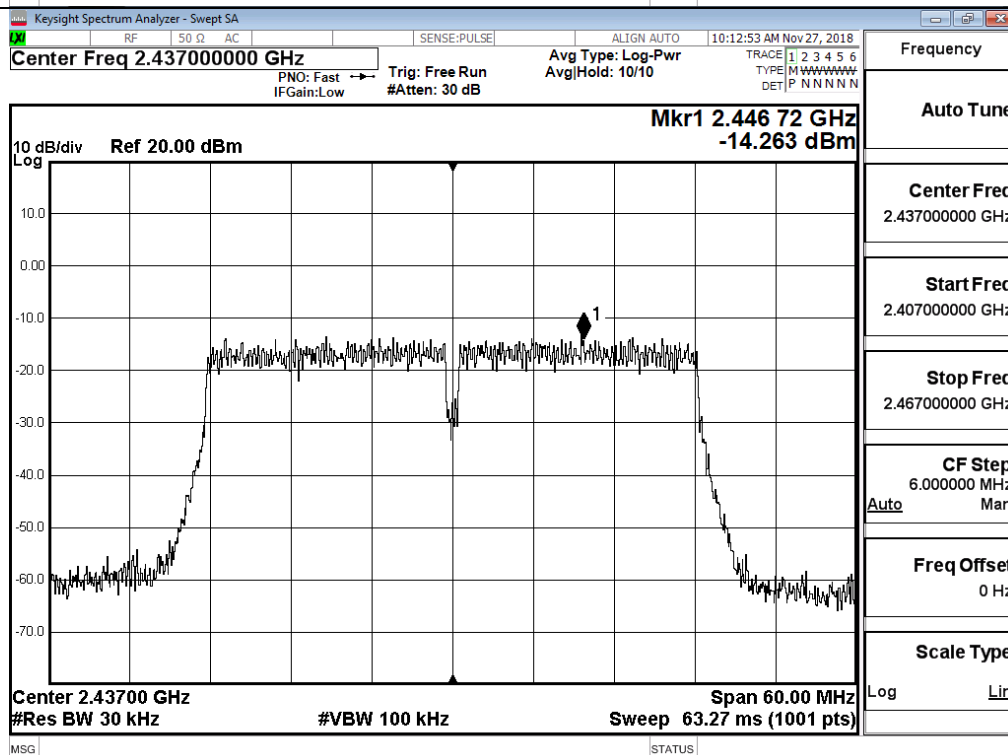
11N20SISO/HCH



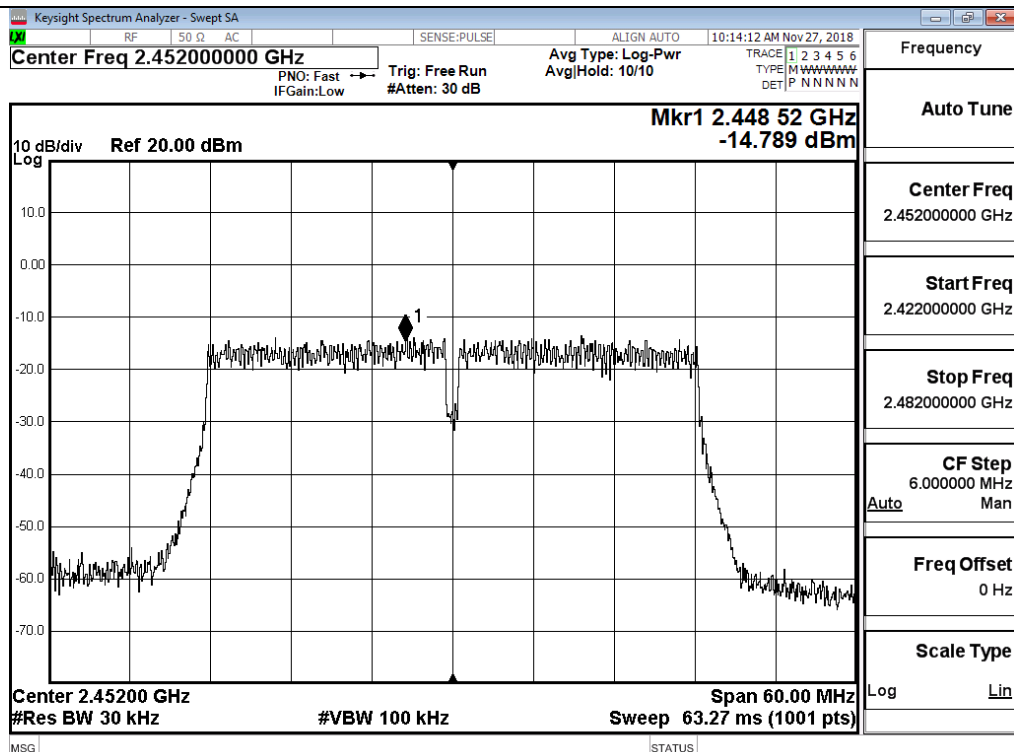
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

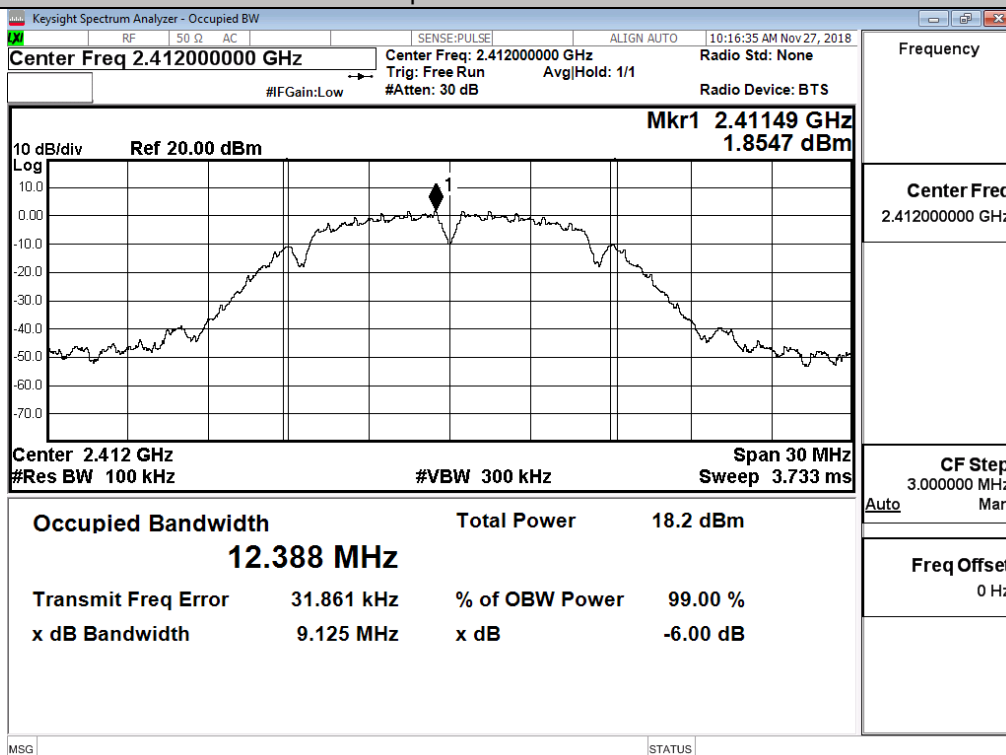


A.4 6dB Bandwidth

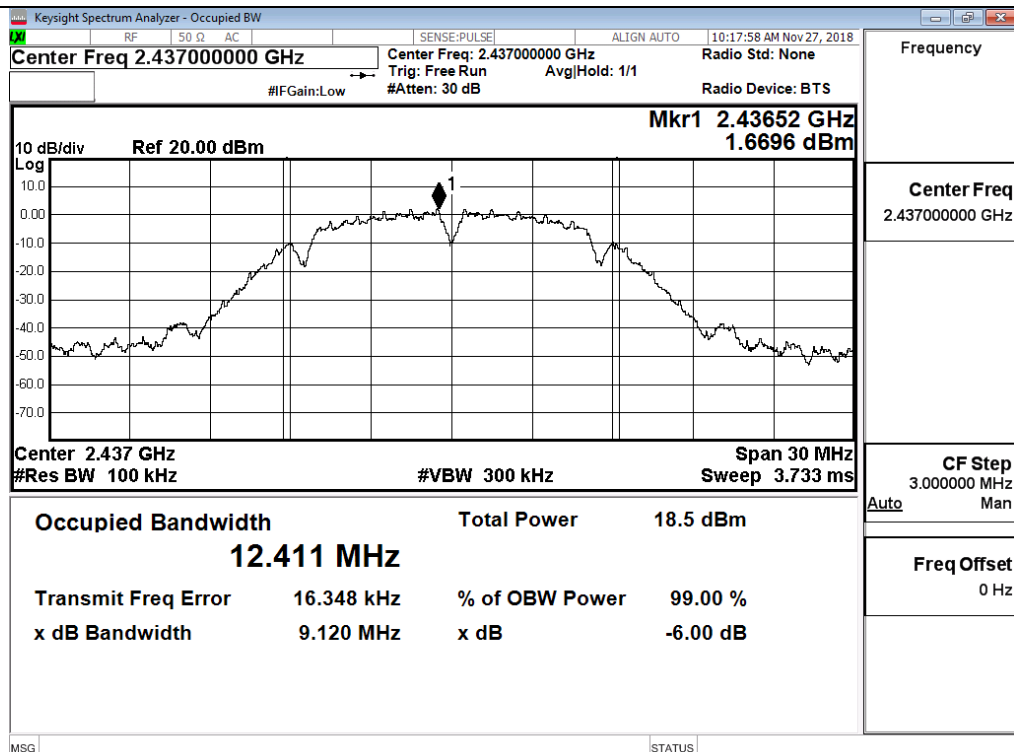
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.125	≥ 0.5	PASS
	MCH	9.120	≥ 0.5	PASS
	HCH	9.131	≥ 0.5	PASS
11G	LCH	16.39	≥ 0.5	PASS
	MCH	16.36	≥ 0.5	PASS
	HCH	16.37	≥ 0.5	PASS
11N20SISO	LCH	17.80	≥ 0.5	PASS
	MCH	17.79	≥ 0.5	PASS
	HCH	17.79	≥ 0.5	PASS
11N40SISO	LCH	36.50	≥ 0.5	PASS
	MCH	36.50	≥ 0.5	PASS
	HCH	36.48	≥ 0.5	PASS

Test Graphs

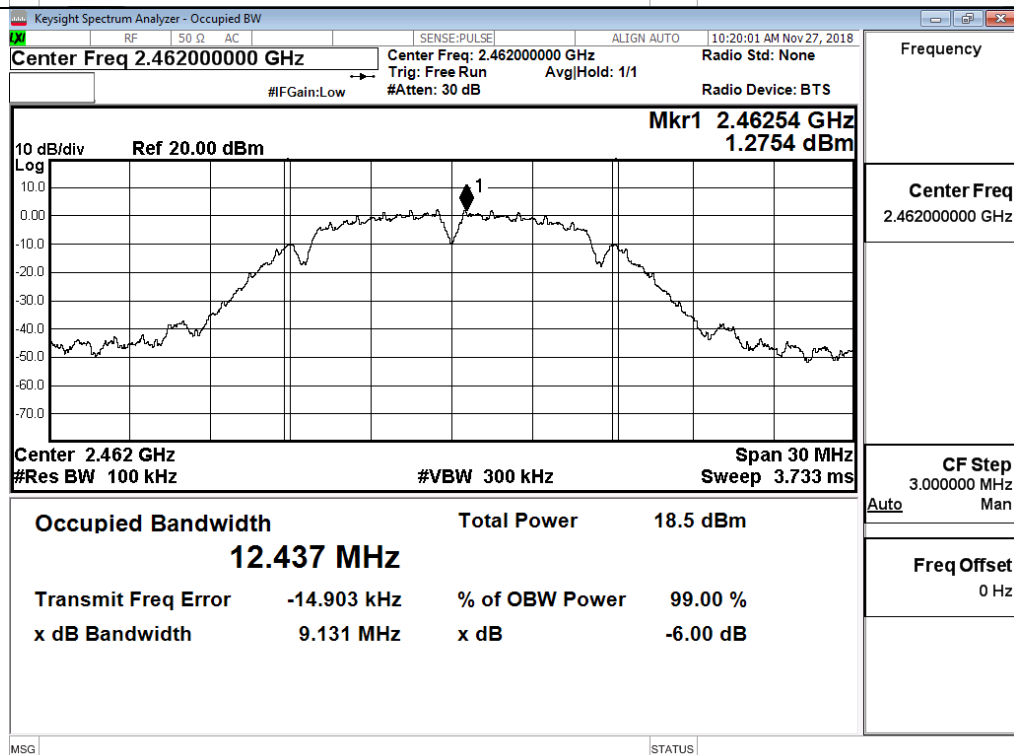
11B/LCH



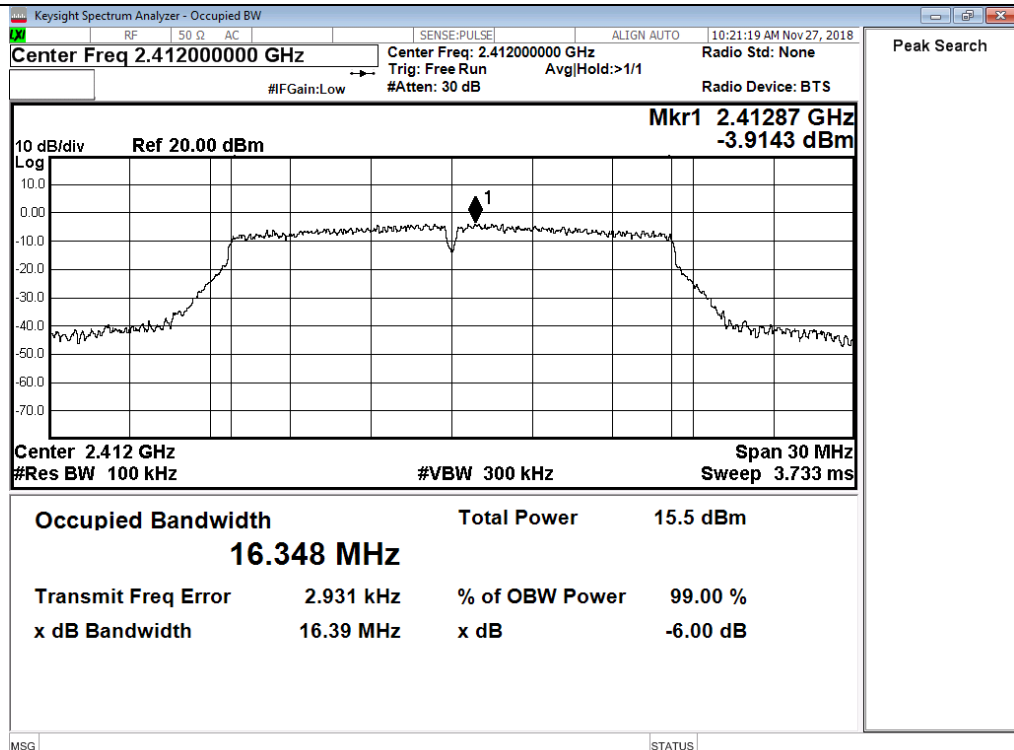
11B/MCH



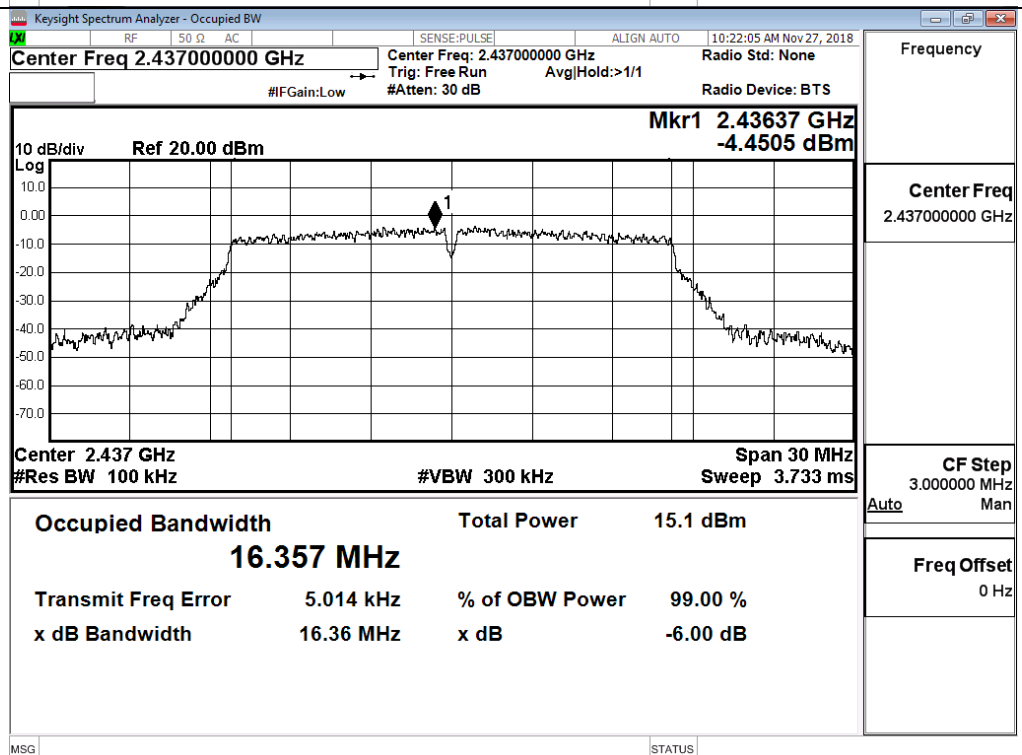
11B/HCH



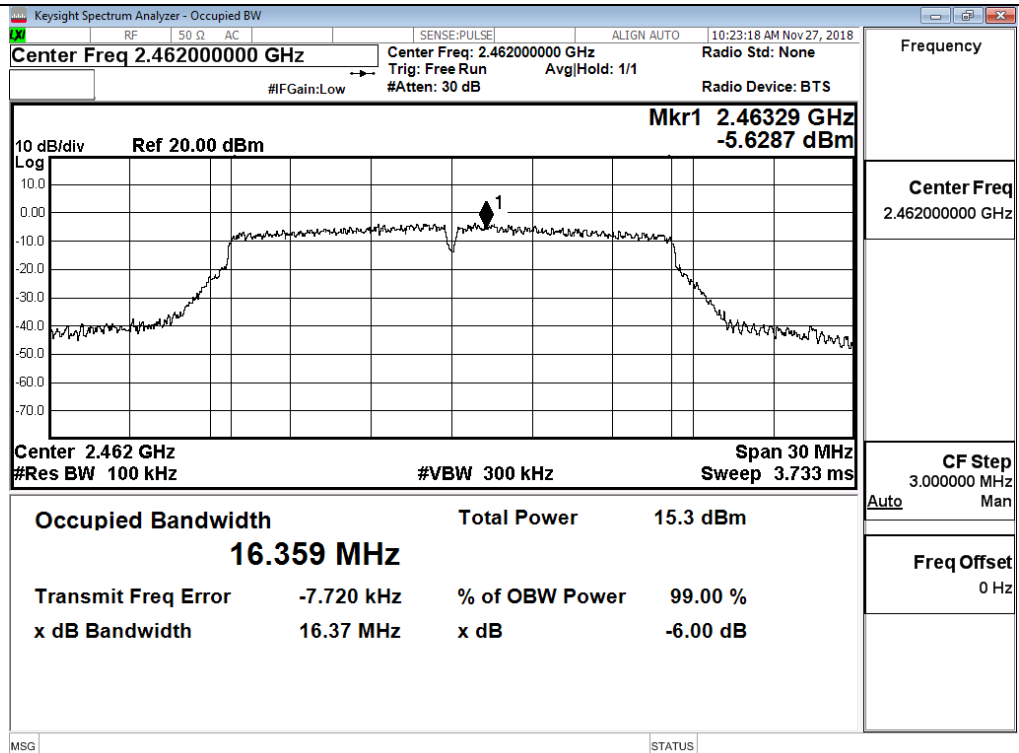
11G/LCH



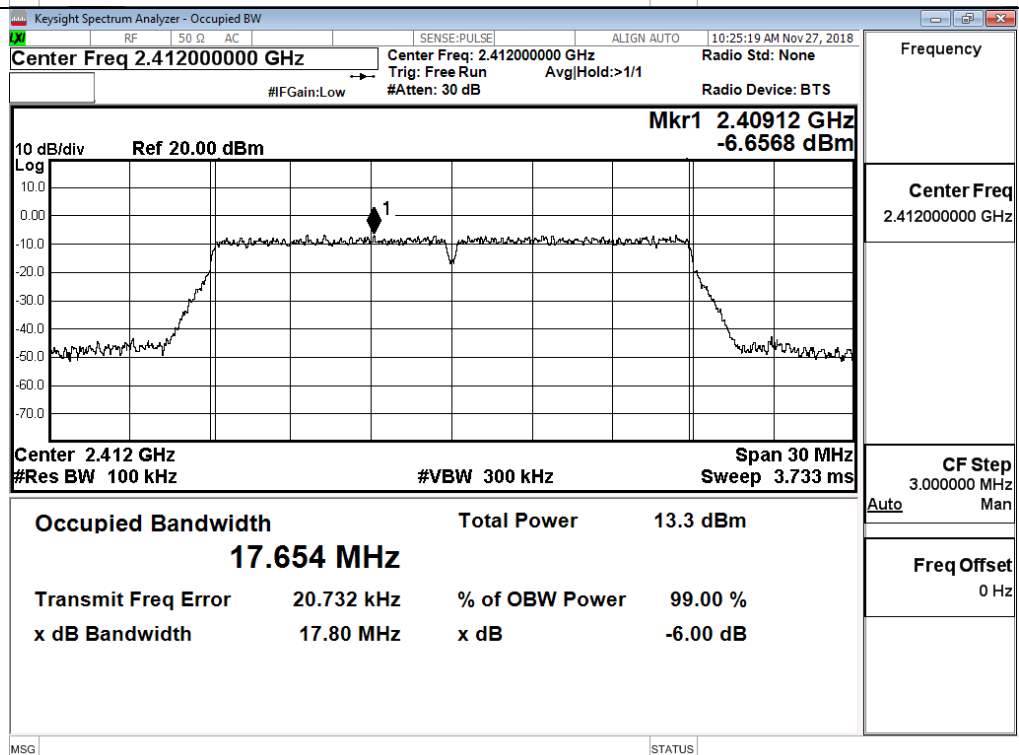
11G/MCH



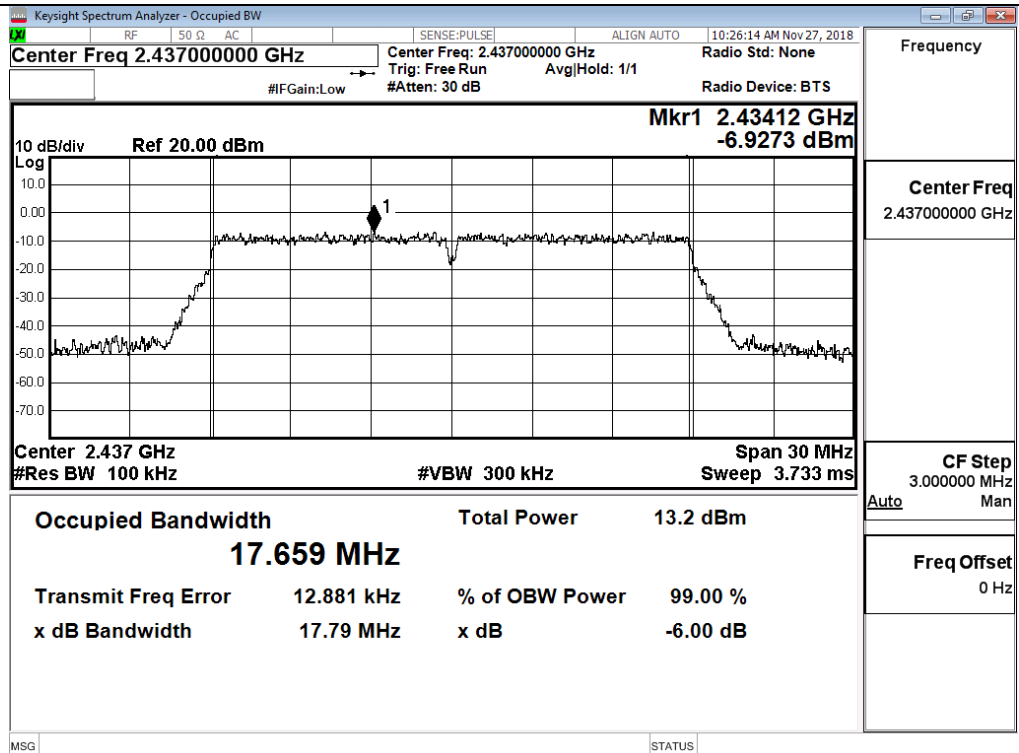
11G/HCH



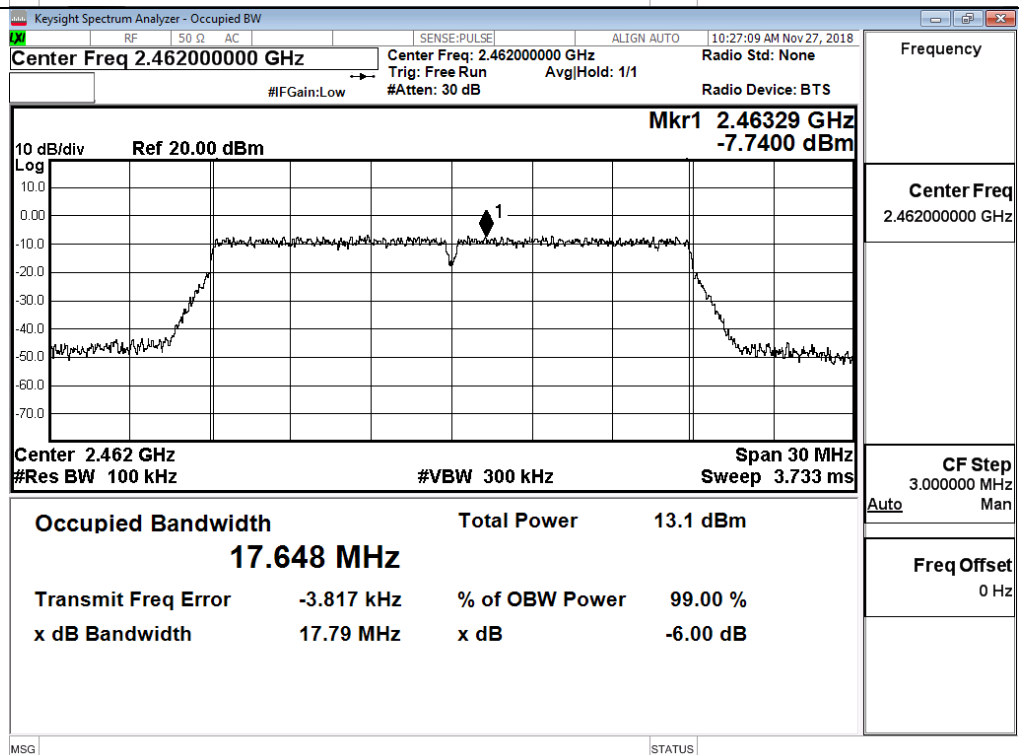
11N20SISO/LCH



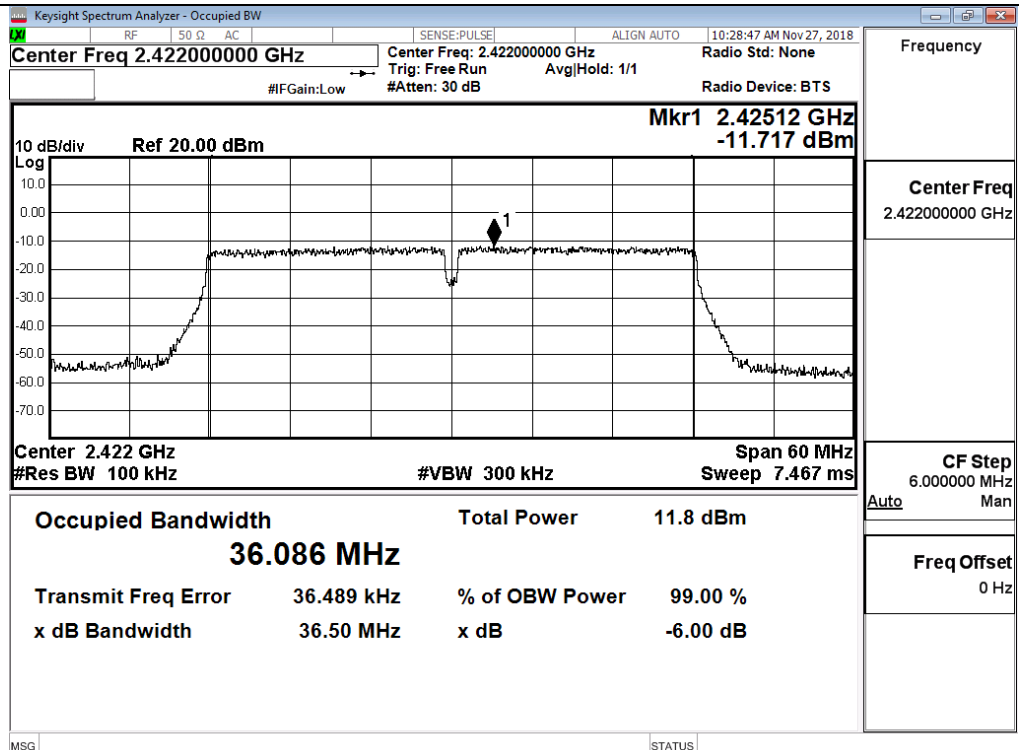
11N20SISO/MCH



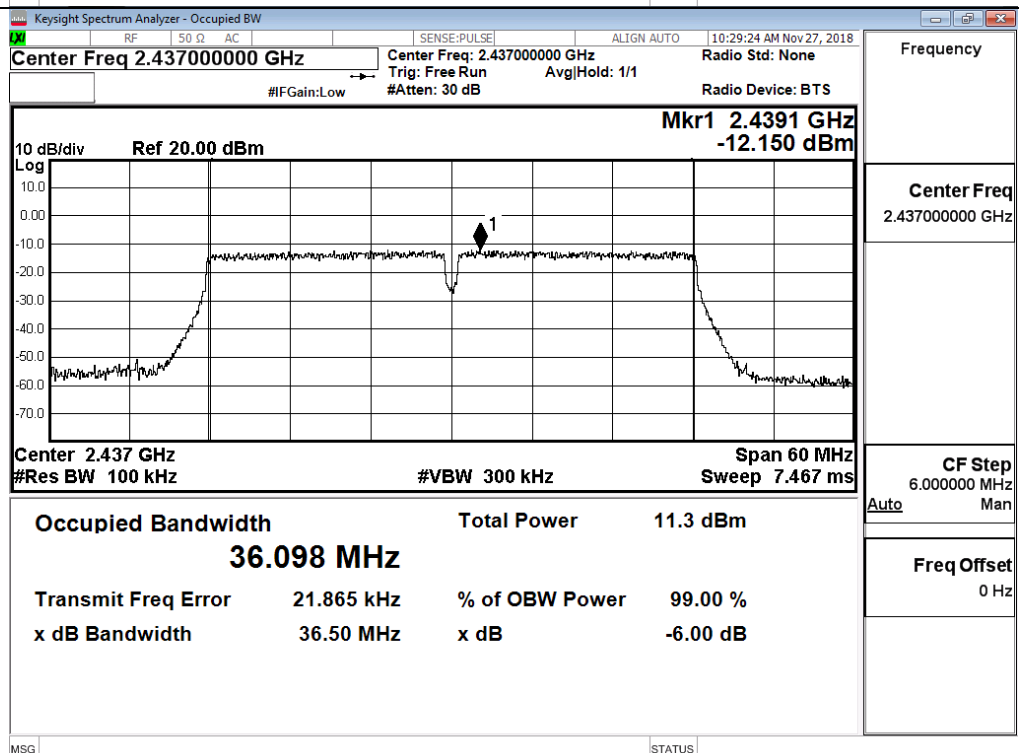
11N20SISO/HCH



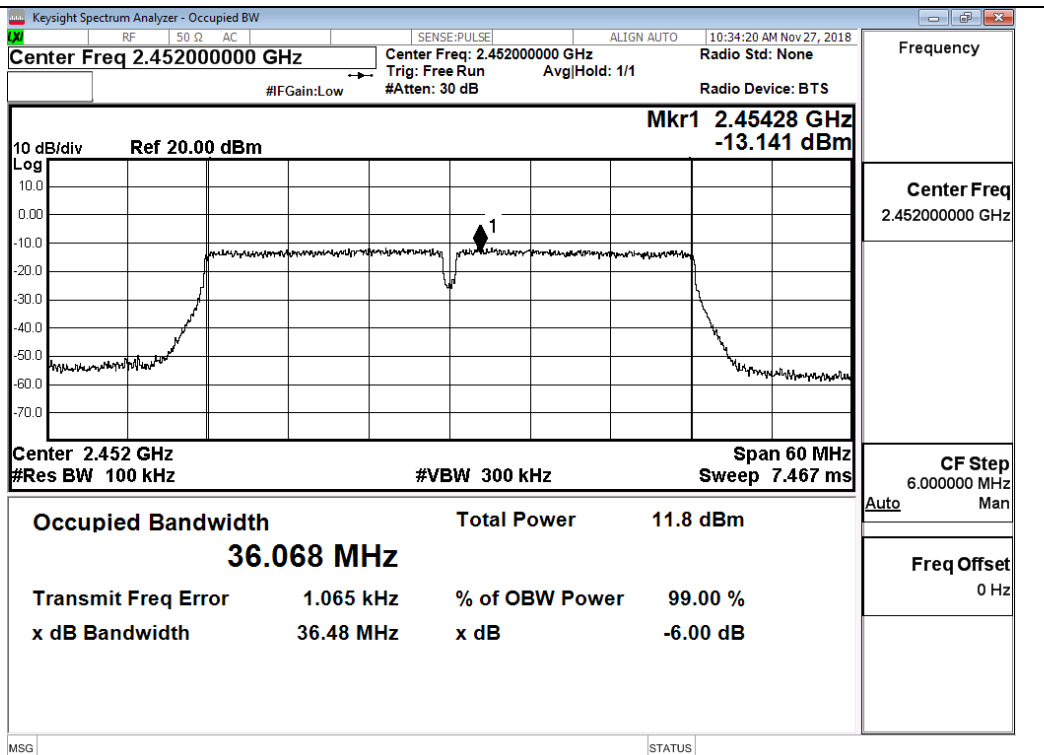
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

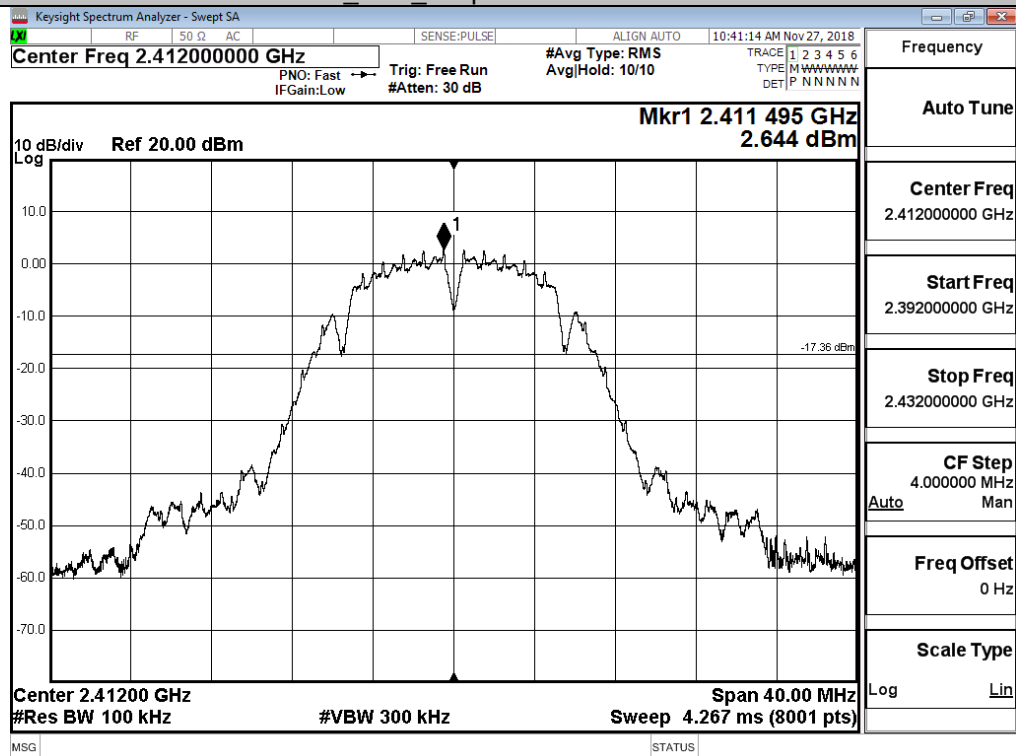


A.5 RF Conducted Spurious Emissions

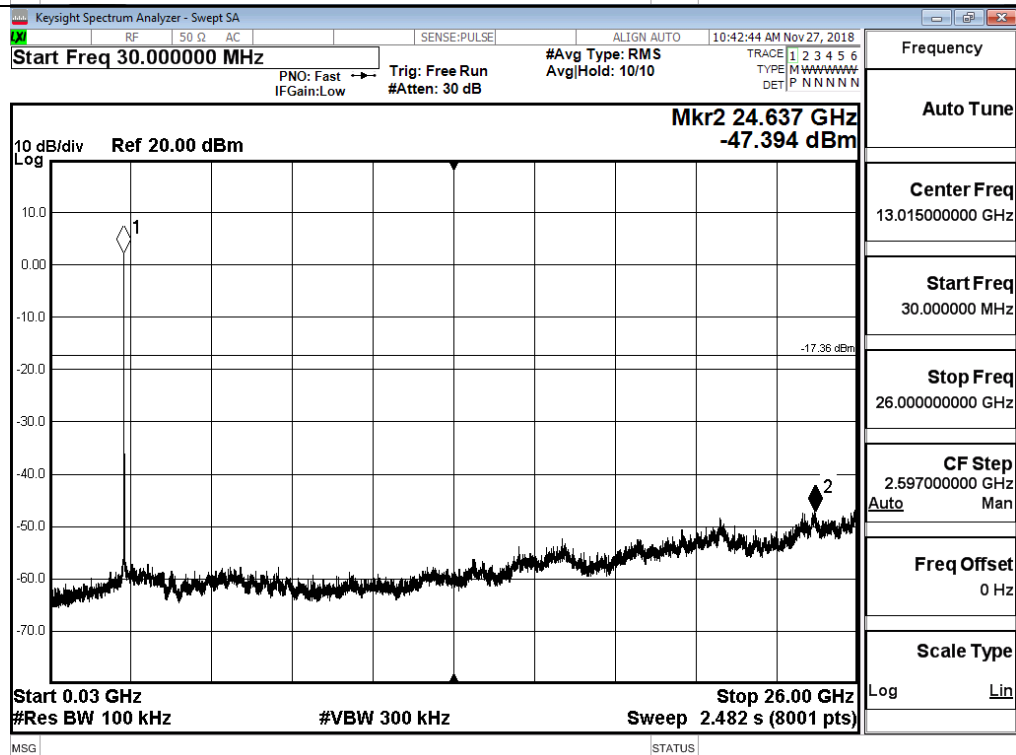
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.644	-47.394	-17.36	PASS
	MCH	2.101	-48.356	-17.90	PASS
	HCH	1.763	-49.320	-18.24	PASS
11G	LCH	-3.108	-47.745	-23.11	PASS
	MCH	-4.877	-46.870	-24.88	PASS
	HCH	-4.749	-48.139	-24.75	PASS
11N20SISO	LCH	-5.943	-48.023	-25.94	PASS
	MCH	-6.684	-47.68	-26.68	PASS
	HCH	-7.328	-46.948	-27.33	PASS
11N40SISO	LCH	-9.925	-47.475	-29.93	PASS
	MCH	-9.899	-47.055	-29.90	PASS
	HCH	-10.280	-46.932	-30.28	PASS

11B LCH Graphs

Pref/11B/LCH

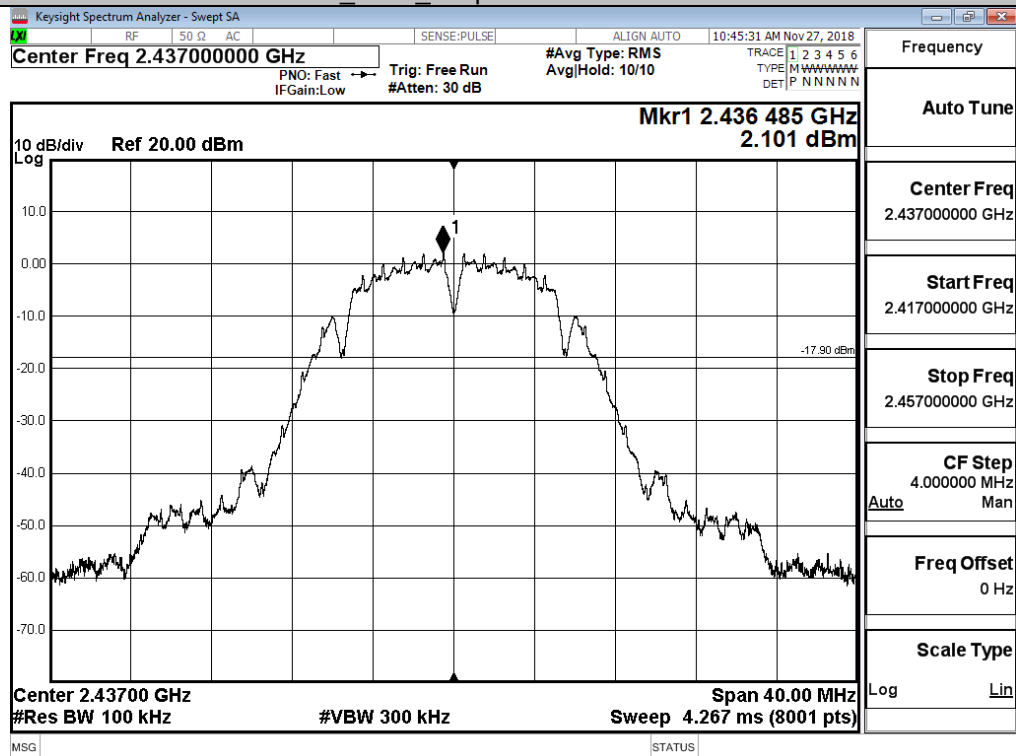


Puw/11B/LCH

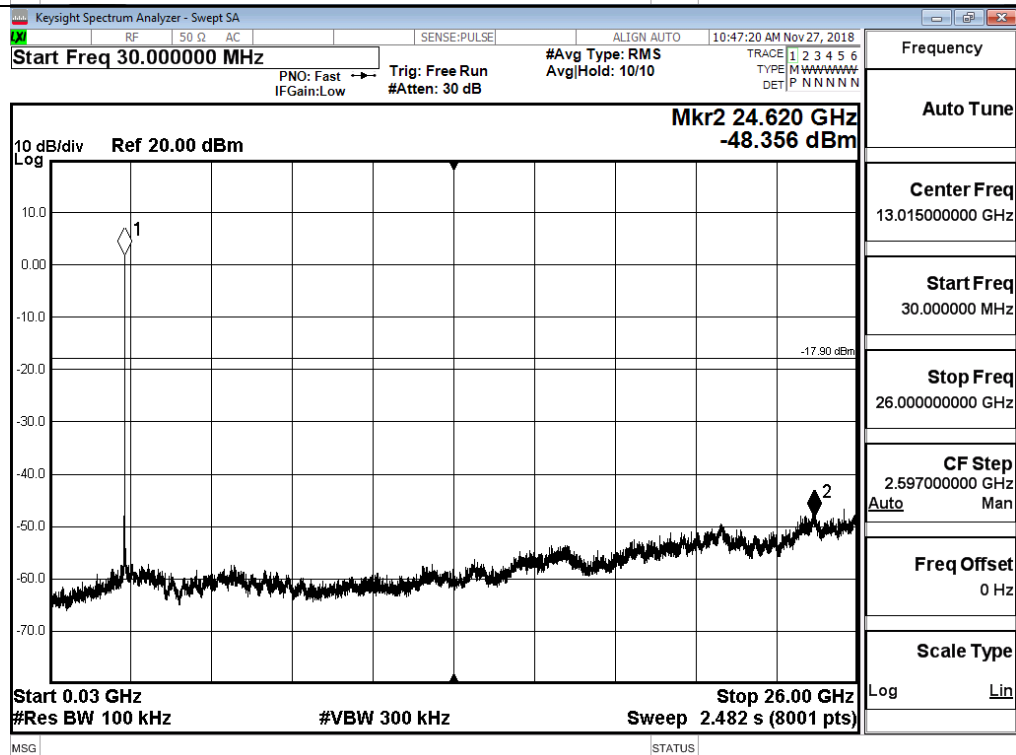


11B MCH Graphs

Pref/11B/MCH

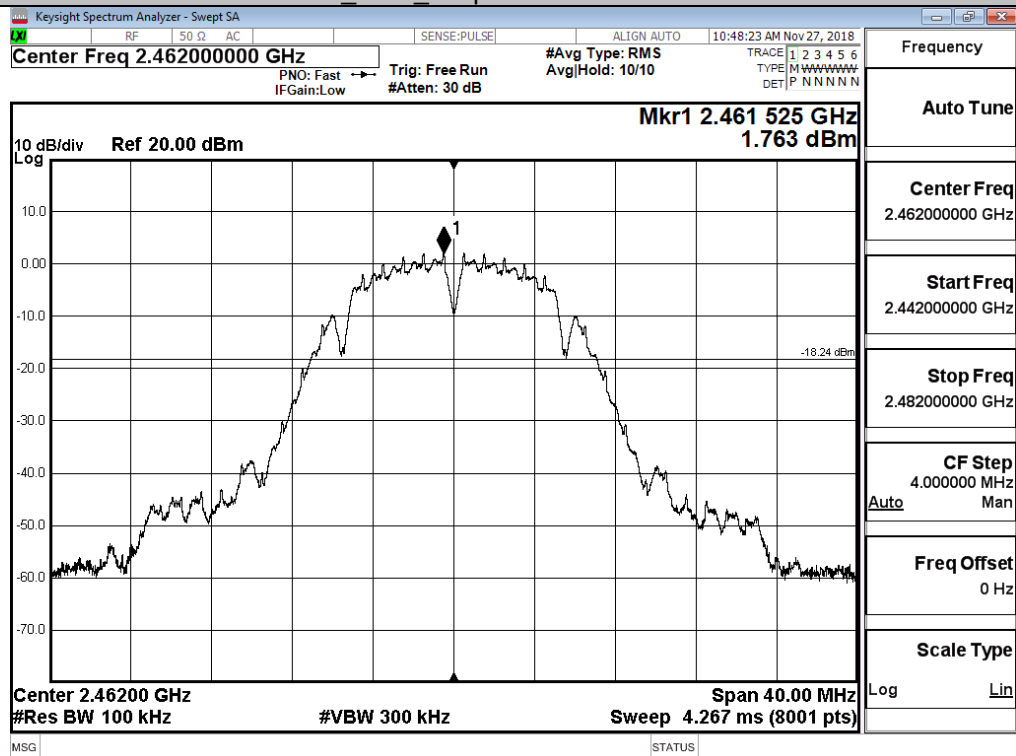


Puw/11B/MCH

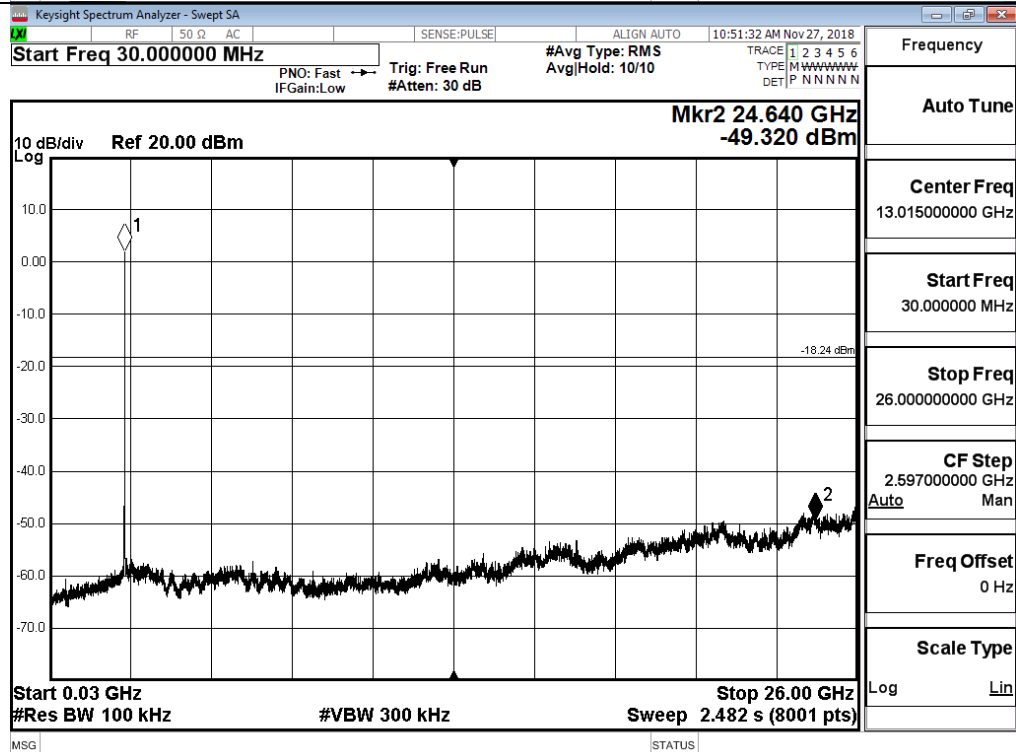


11B HCH Graphs

Pref/11B/HCH

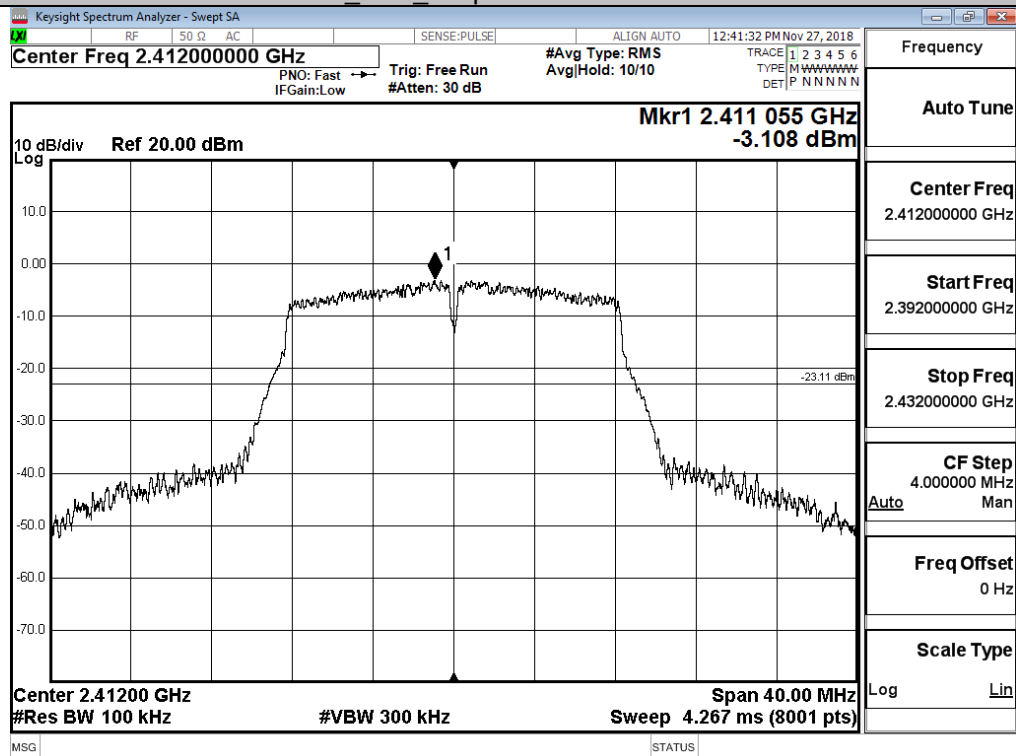


Puw/11B/HCH

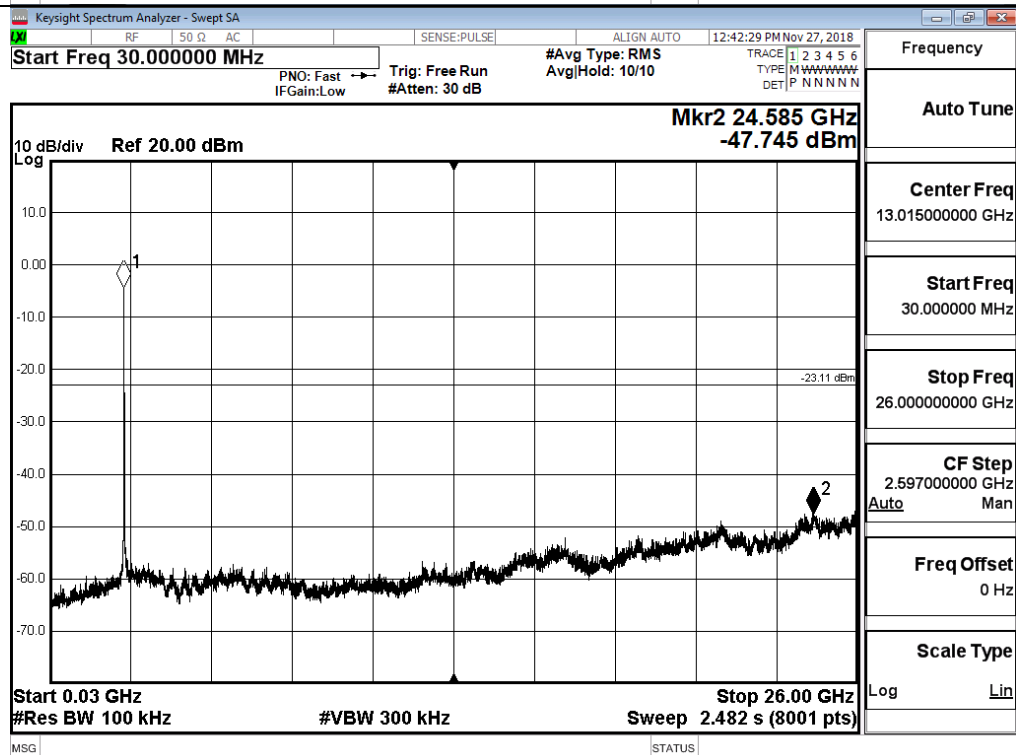


11G LCH Graphs

Pref/11G/LCH

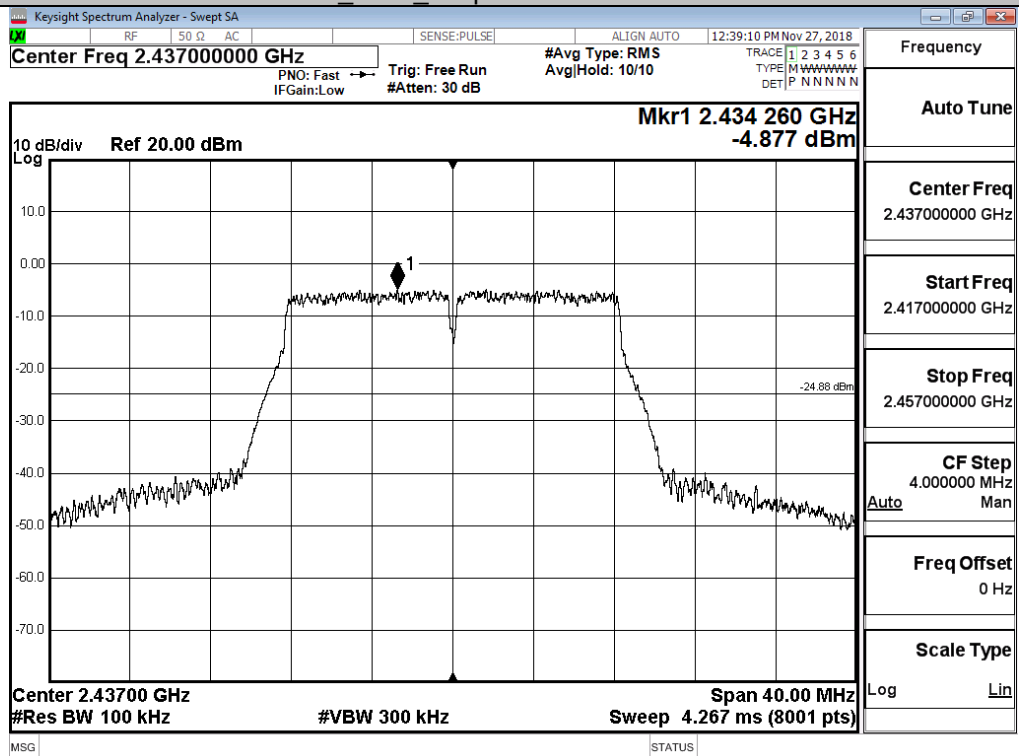


Puw/11G/LCH

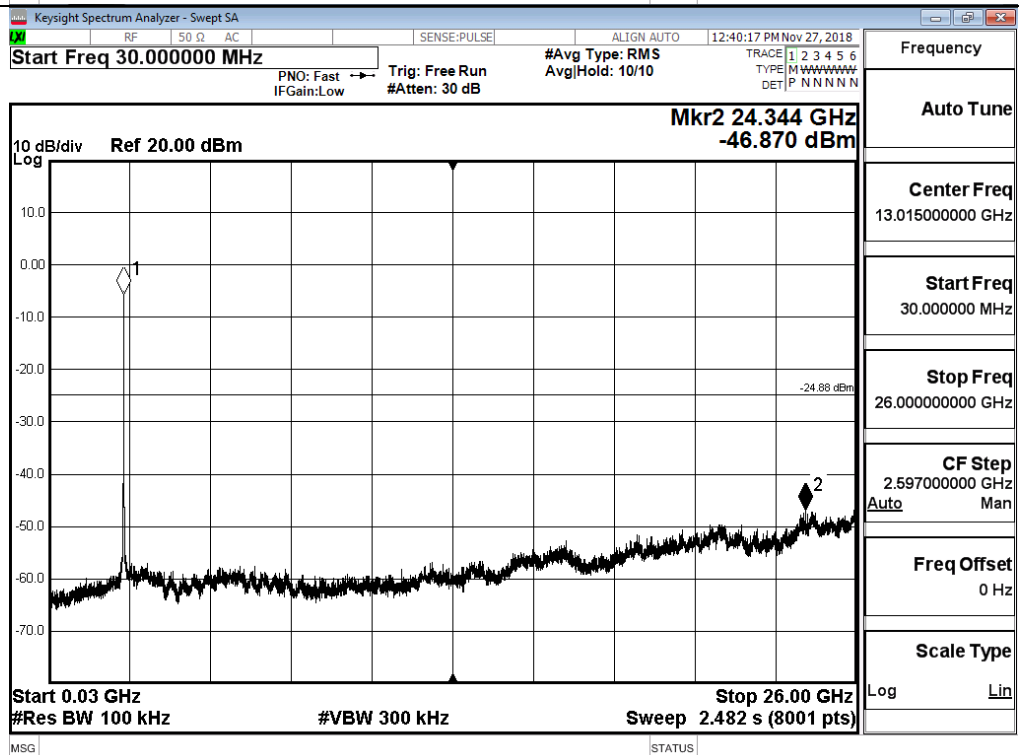


11G MCH Graphs

Pref/11G/MCH

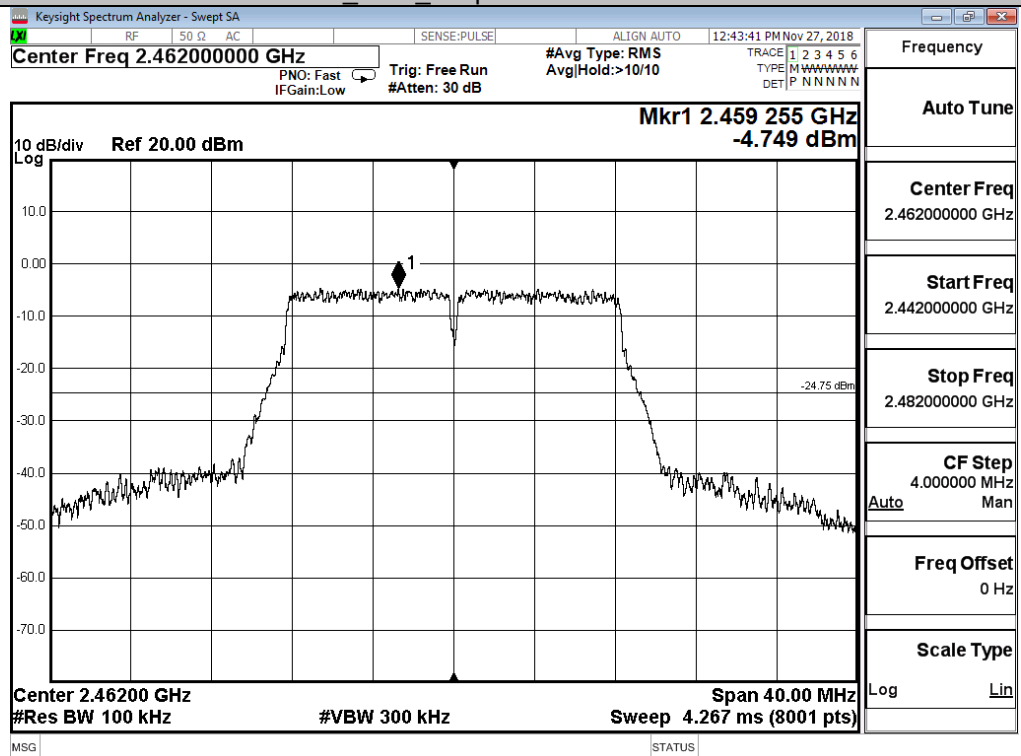


Puw/11G/MCH

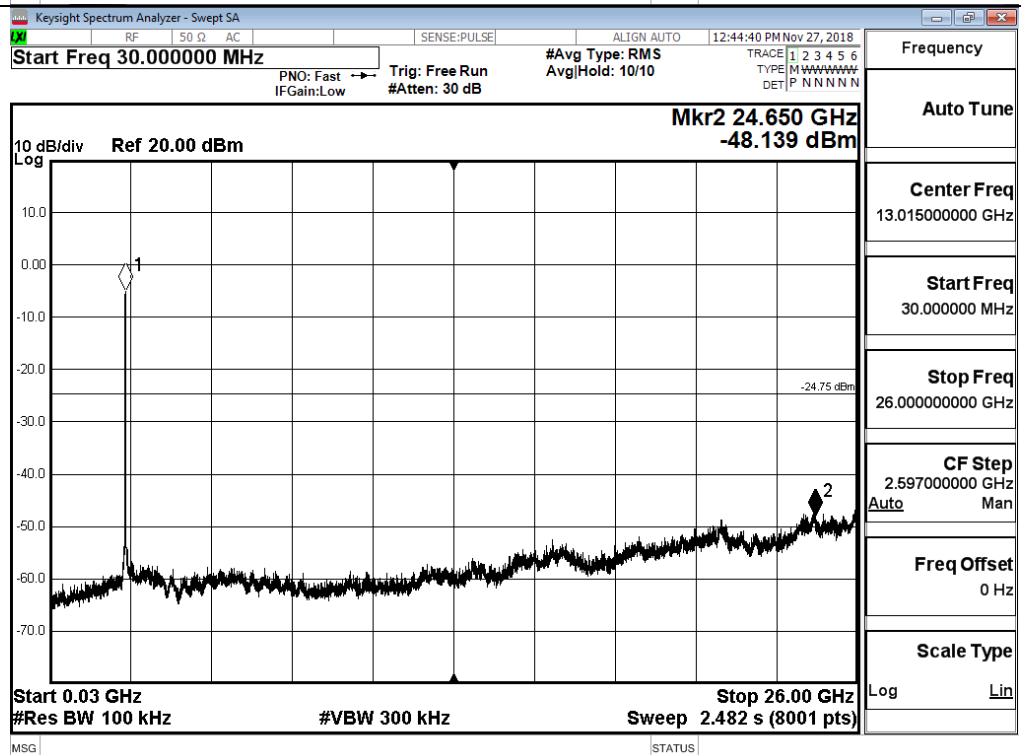


11G HCH Graphs

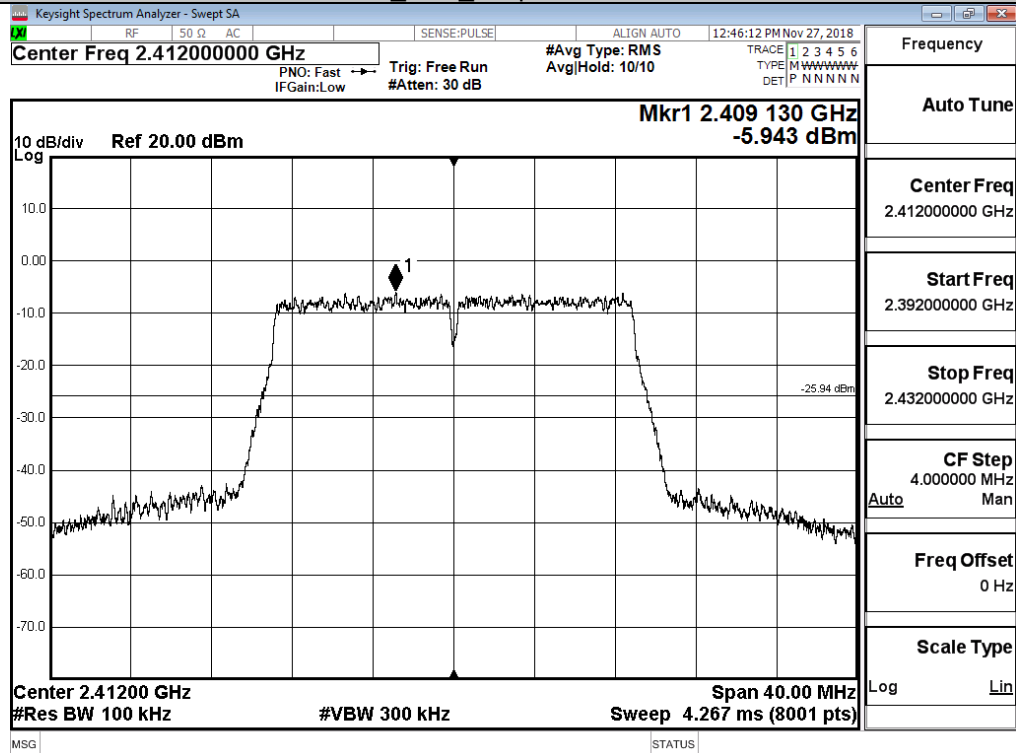
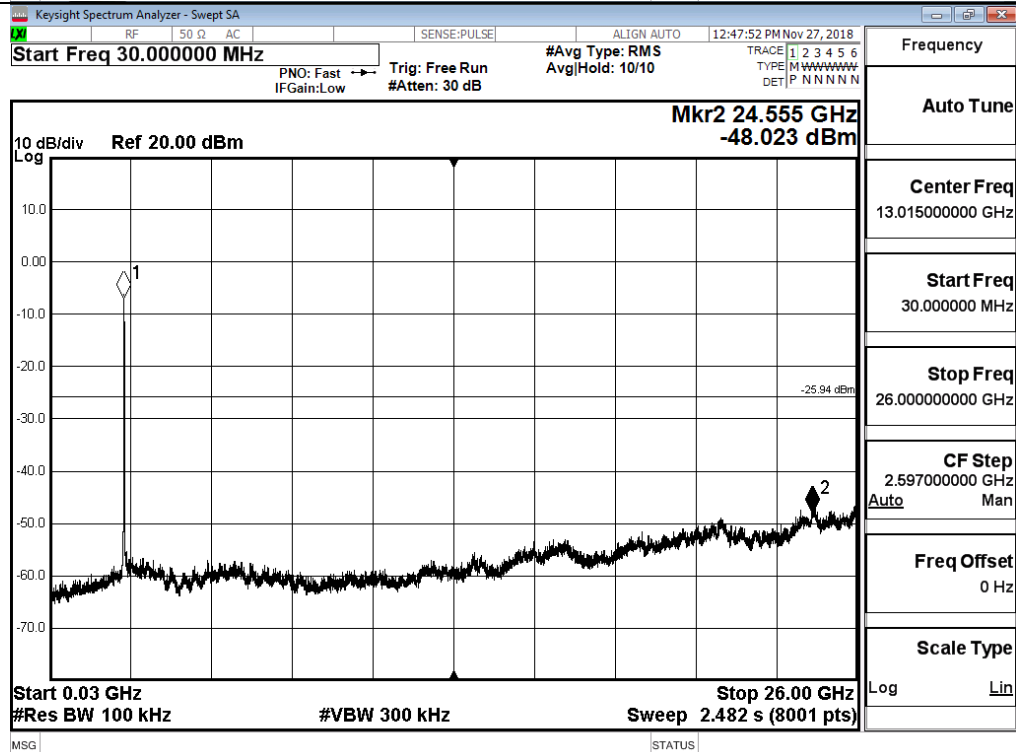
Pref/11G/HCH



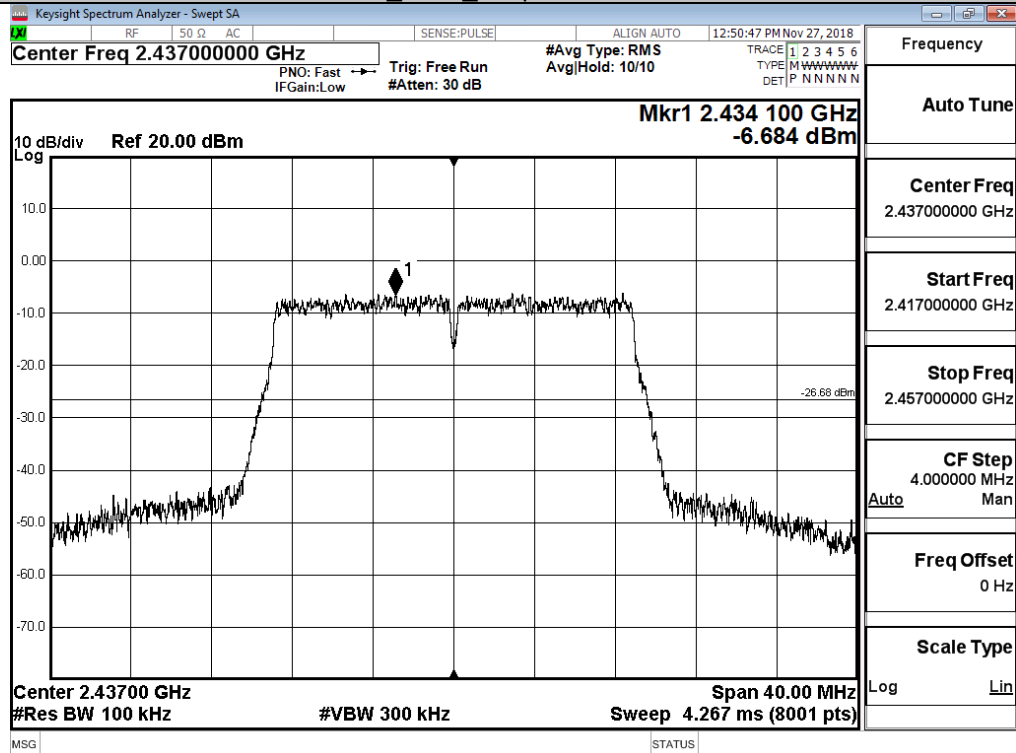
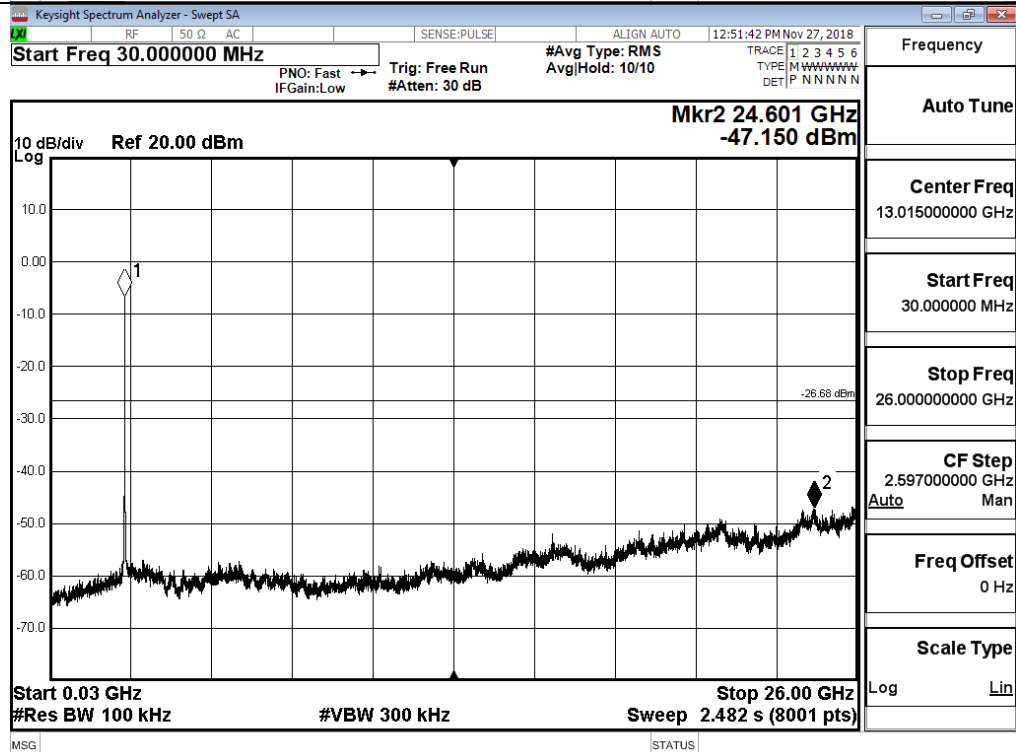
Puw/11G/HCH



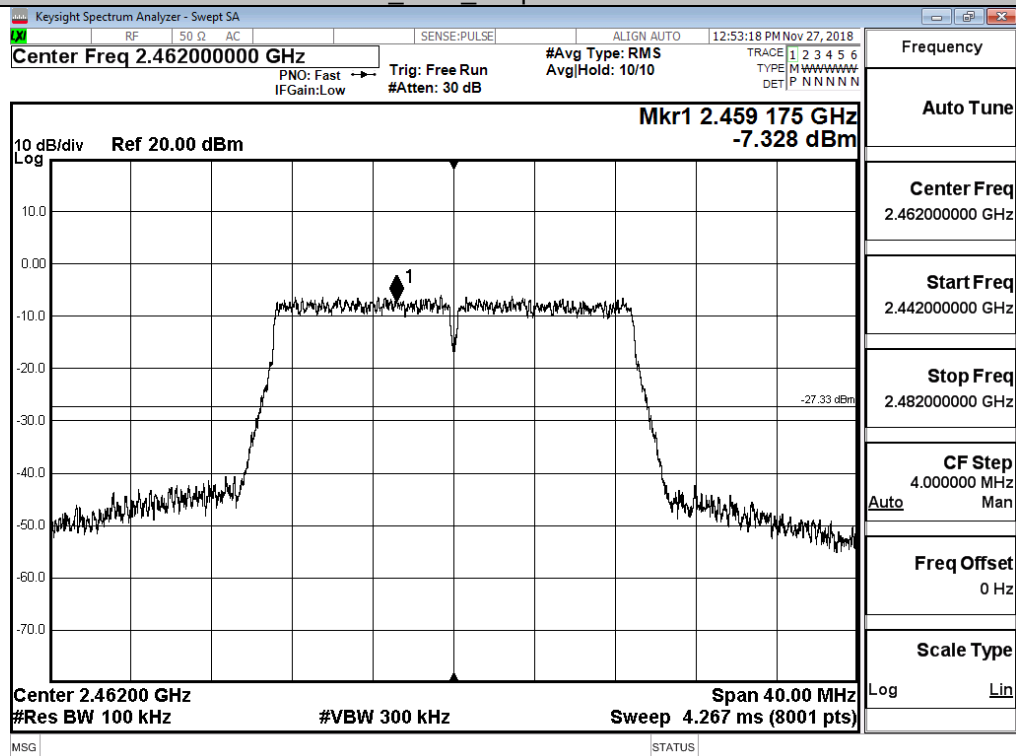
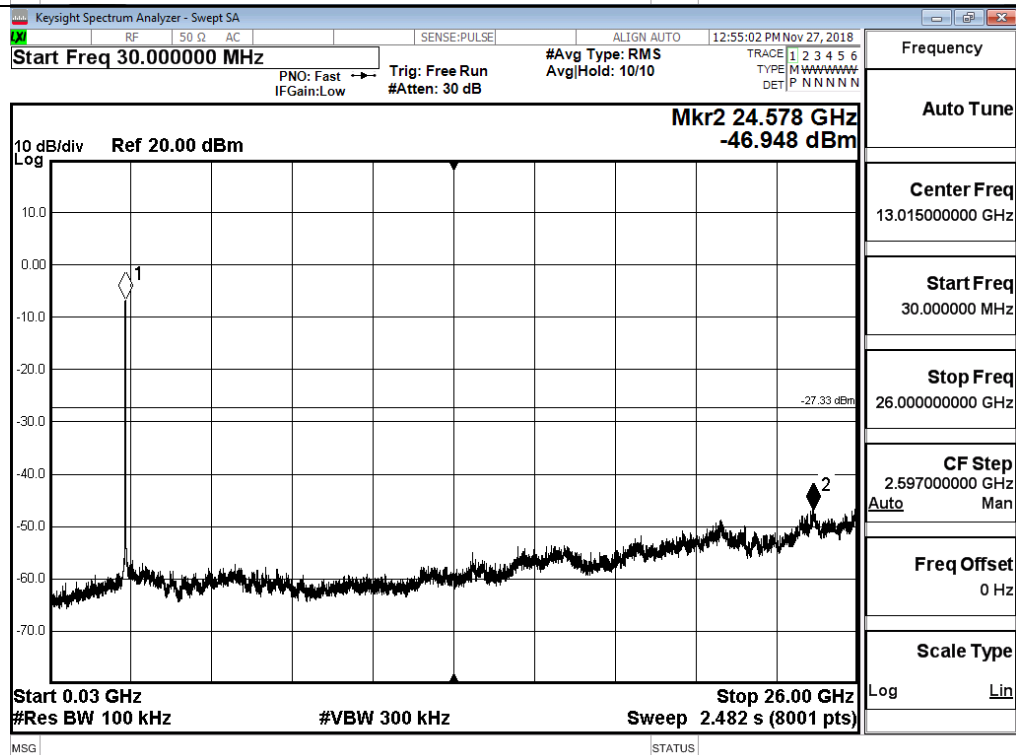
11N20SISO LCH Graphs

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

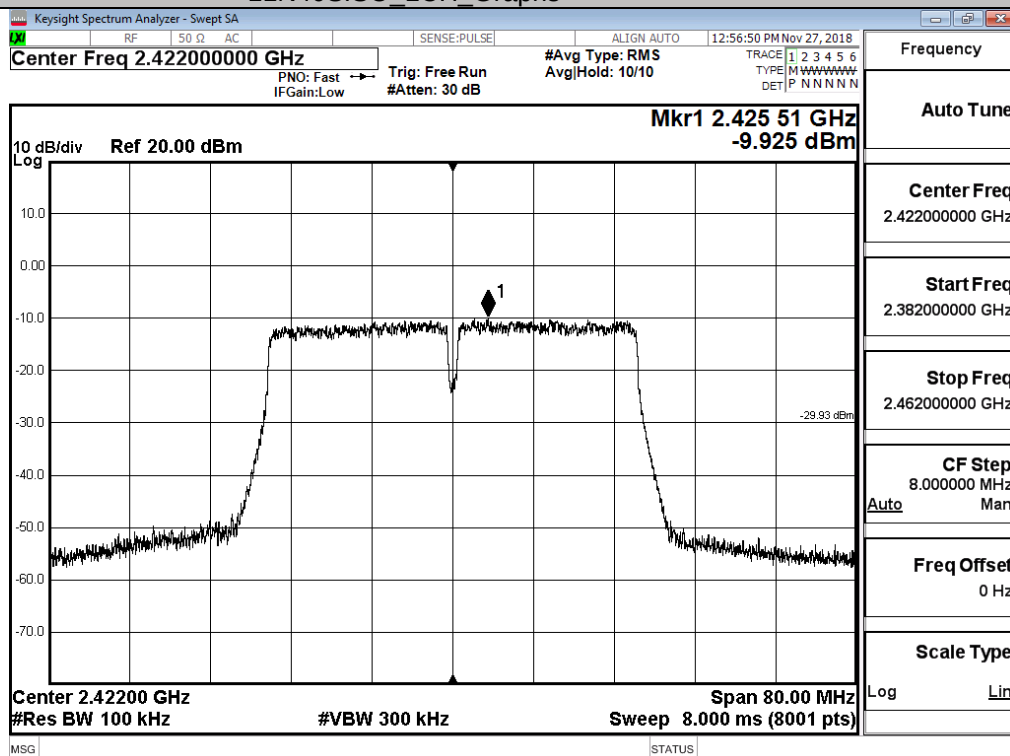
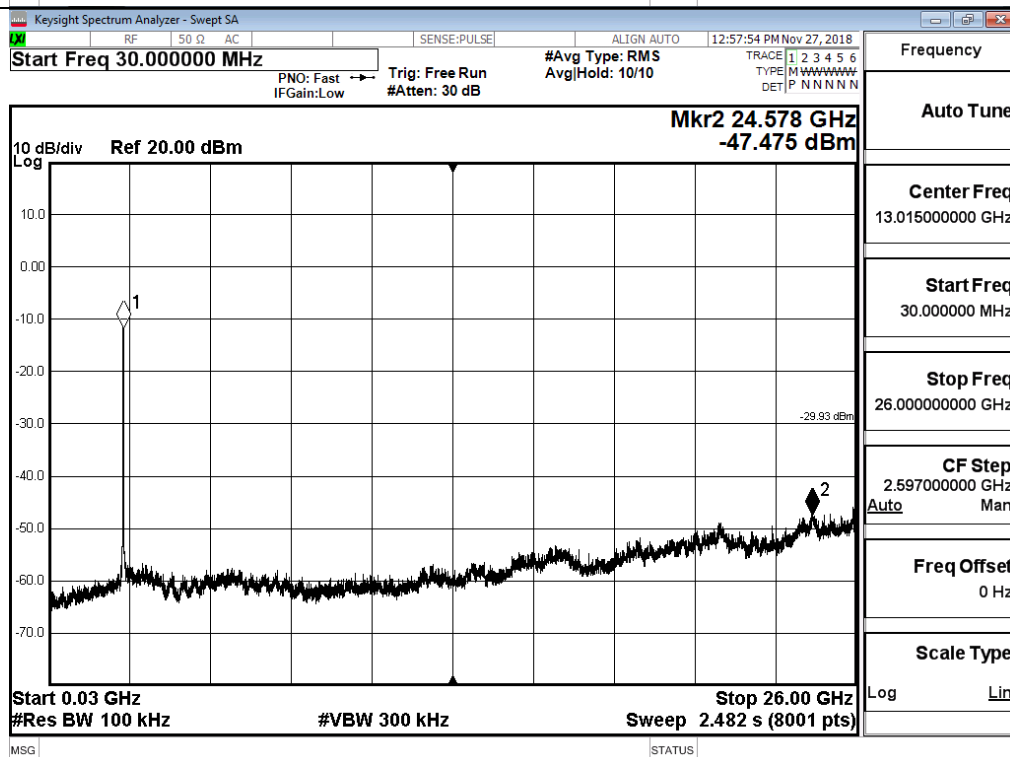
11N20SISO_MCH_Graphs

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

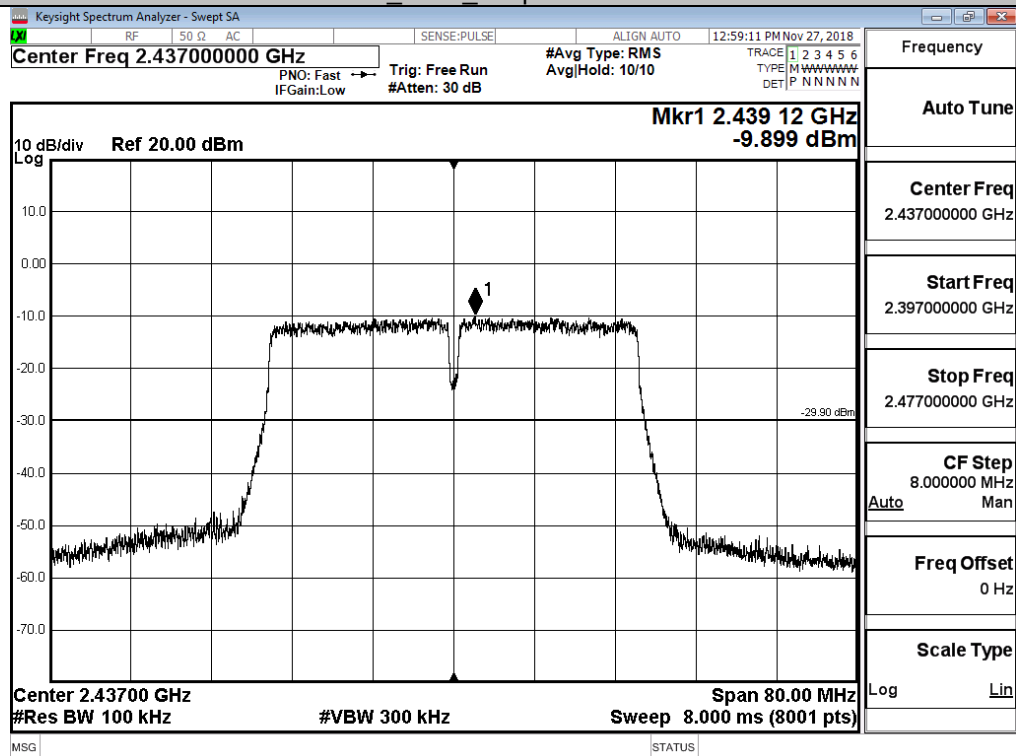
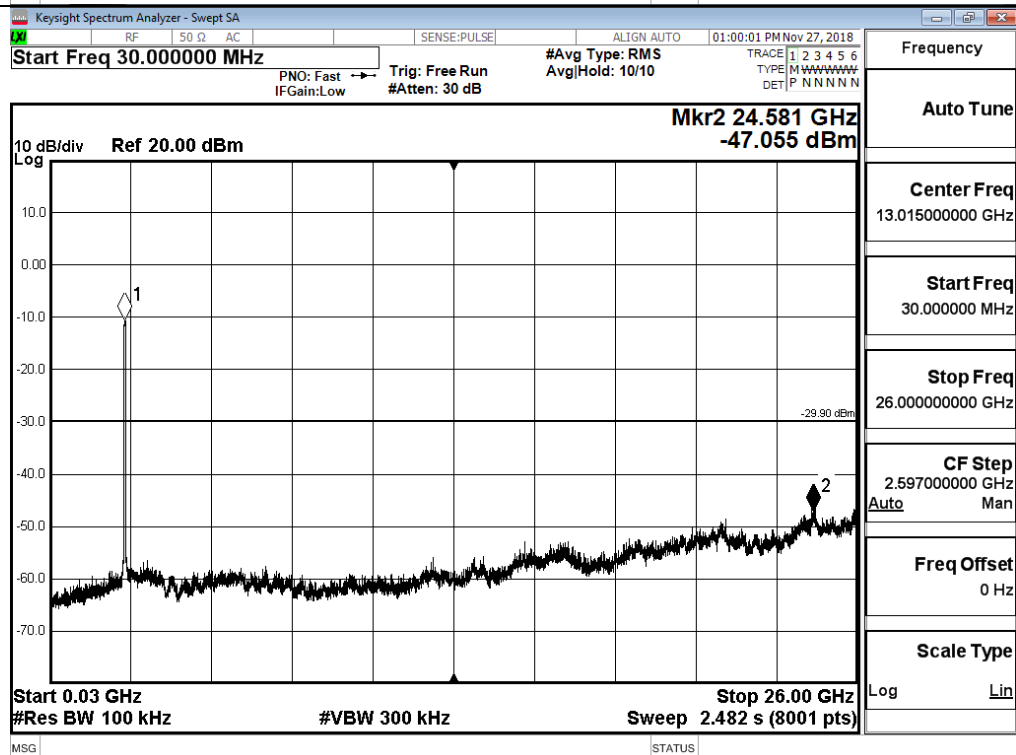
11N20SISO_HCH_Graphs

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

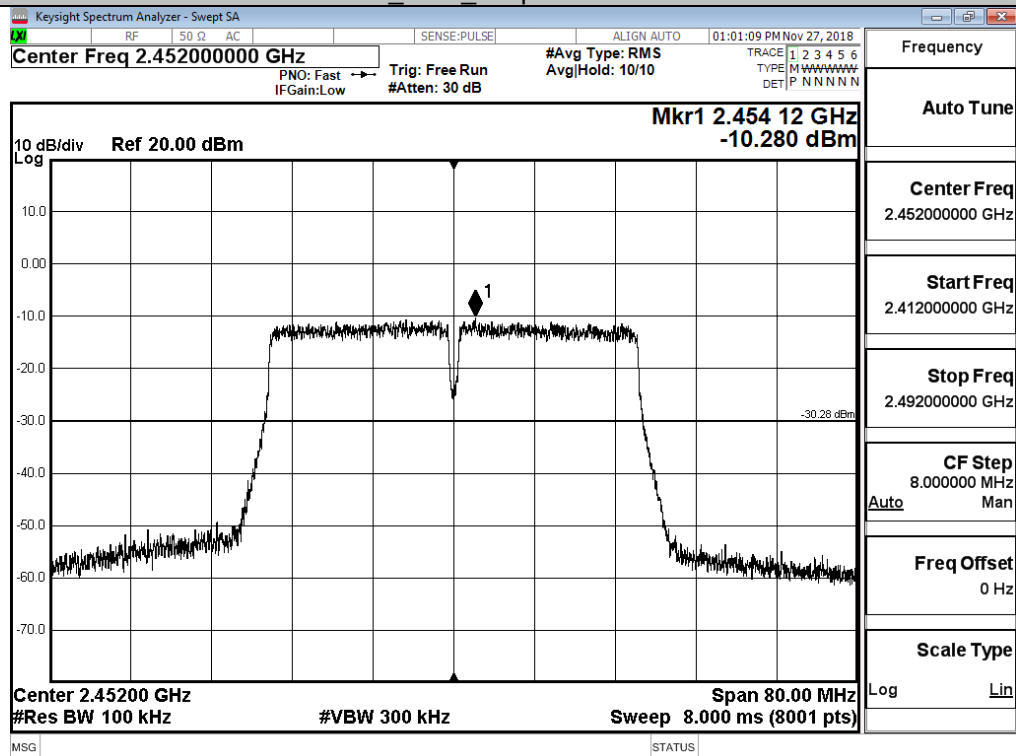
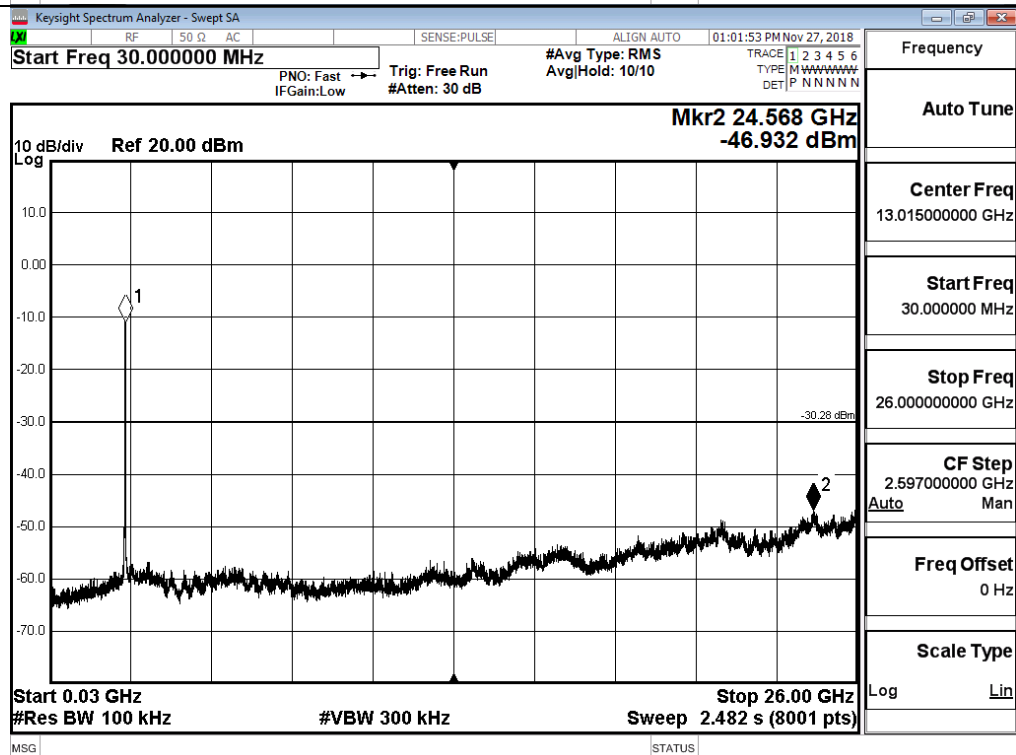
11N40SISO LCH Graphs

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

11N40SISO_MCH_Graphs

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

11N40SISO_HCH_Graphs

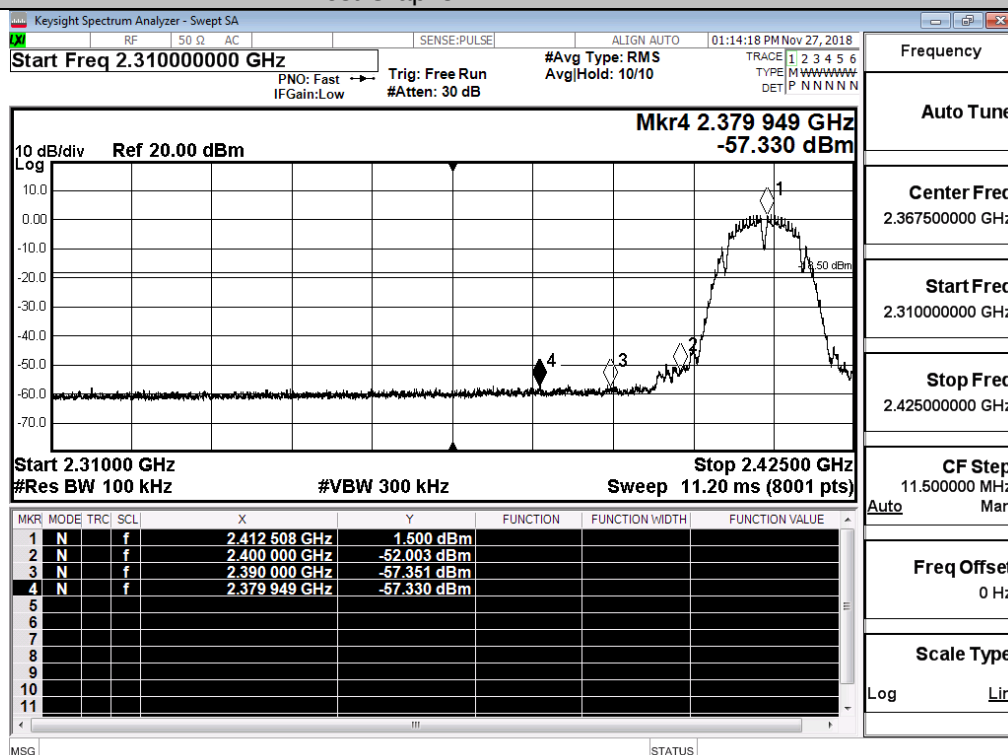
Pref/11N40
SISO/HCHPuw/11N40
SISO/HCH

A.6 Band-edge for RF Conducted Emissions

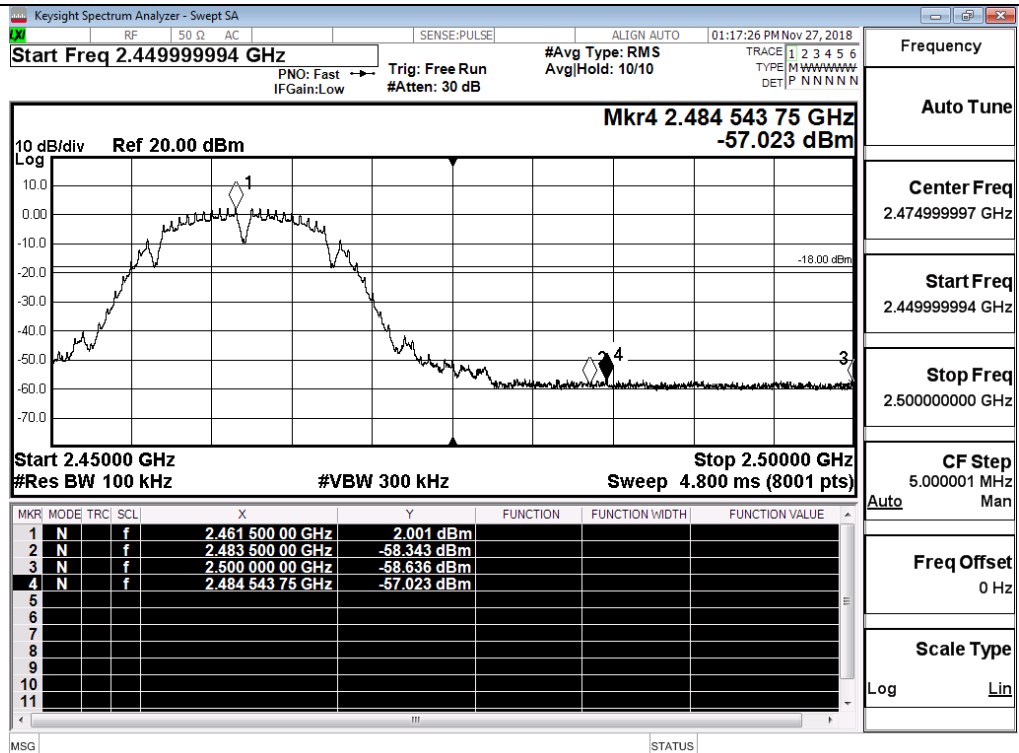
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.500	-57.330	-18.50	PASS
	HCH	2.001	-57.023	-18.00	PASS
11G	LCH	-2.969	-56.882	-22.97	PASS
	HCH	-1.558	-52.997	-21.56	PASS
11N20SISO	LCH	-5.871	-58.054	-25.87	PASS
	HCH	-5.609	-54.813	-25.61	PASS
11N40SISO	LCH	-9.855	-58.529	-29.86	PASS
	HCH	-9.831	-55.374	-29.83	PASS

Test Graphs

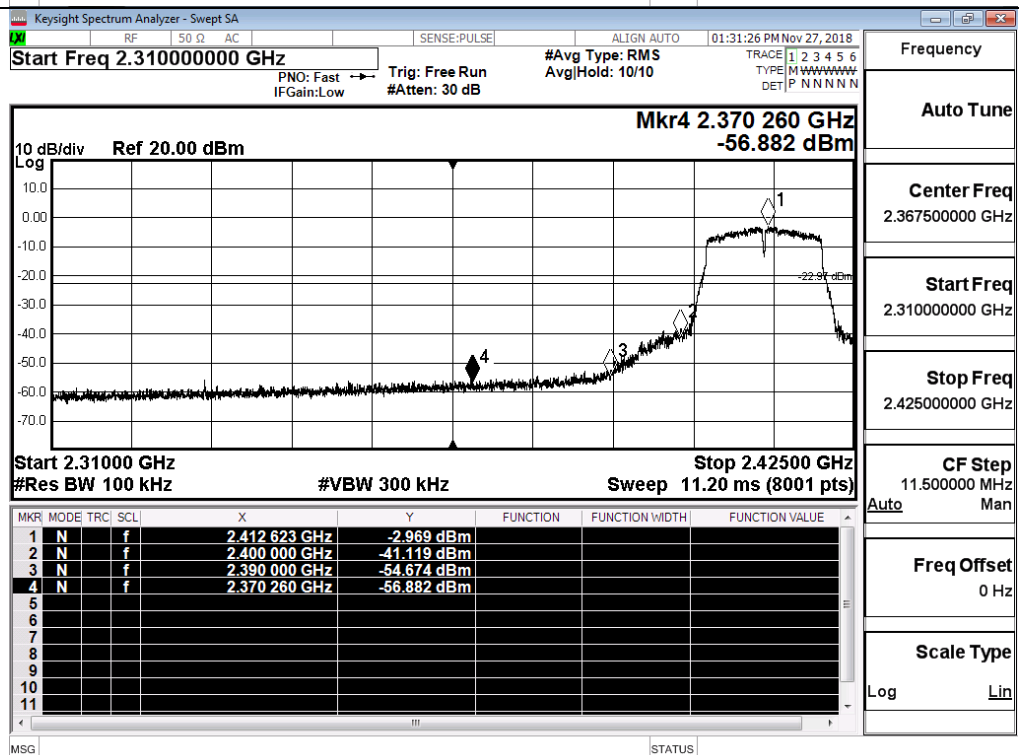
11B/LCH



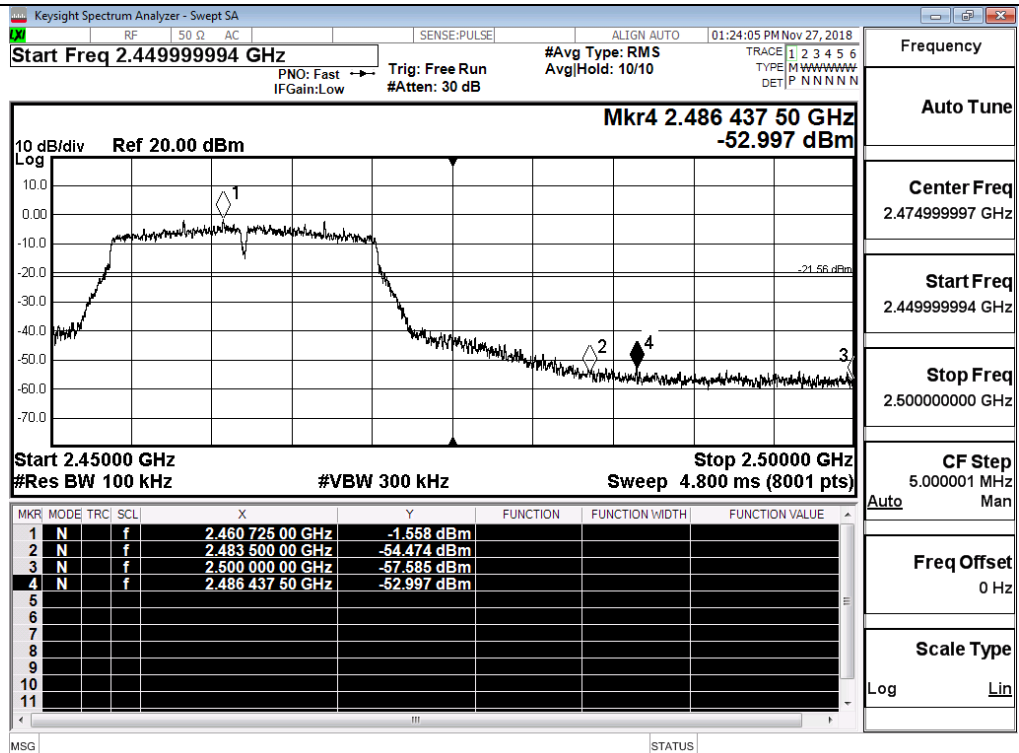
11B/HCH



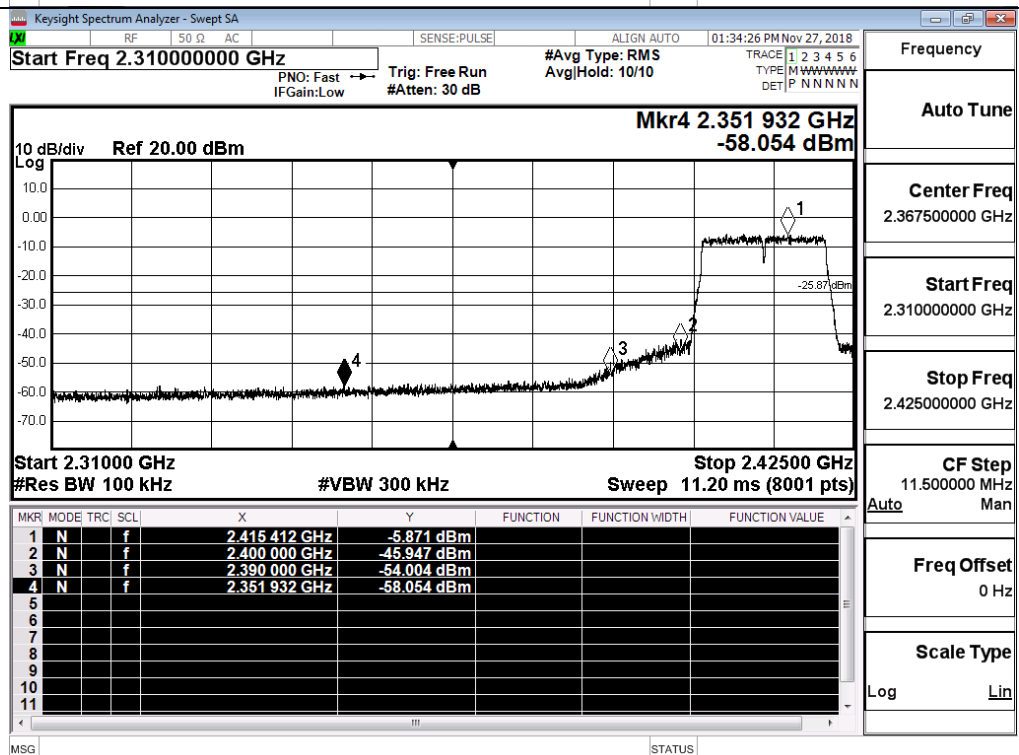
11G/LCH



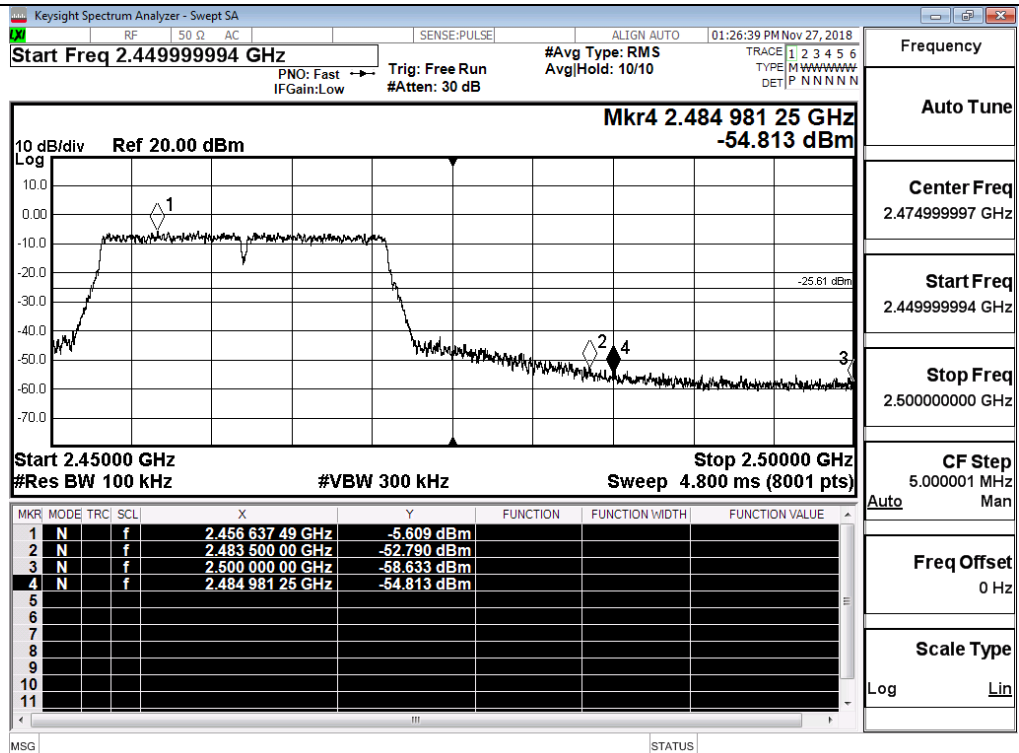
11G/HCH



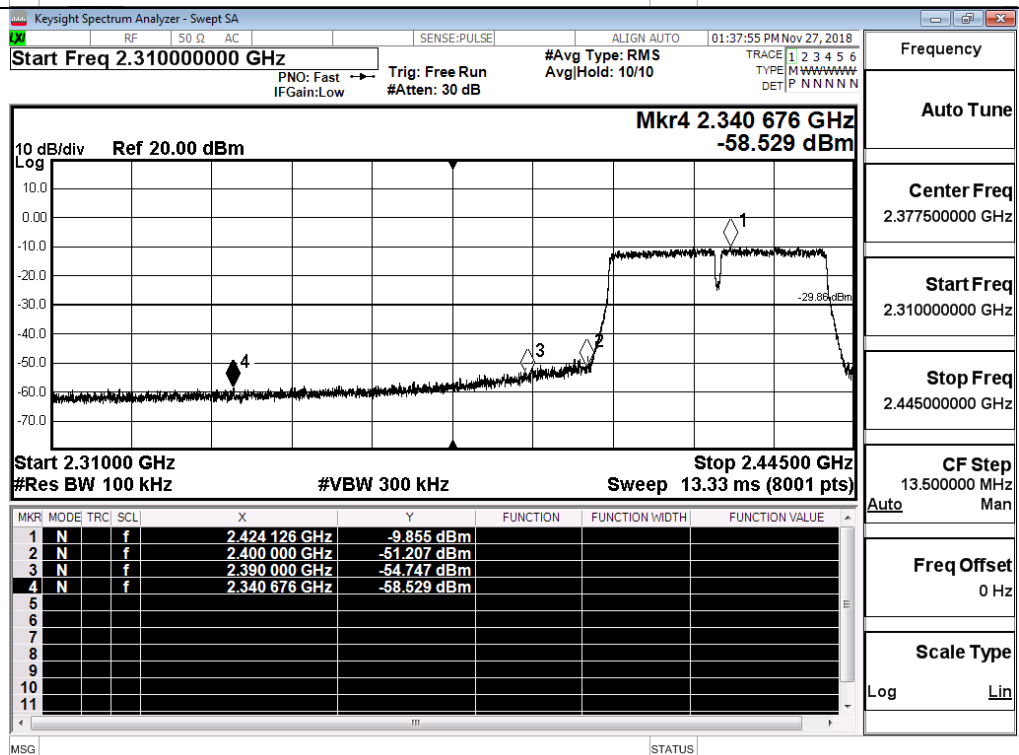
11N20SISO/LCH



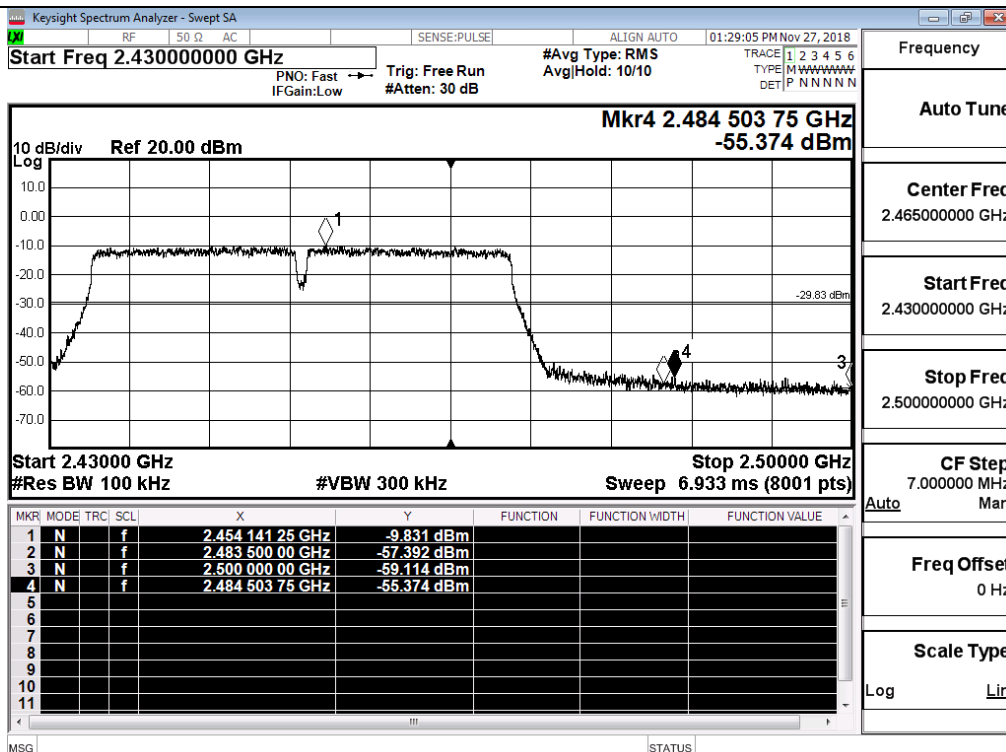
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH

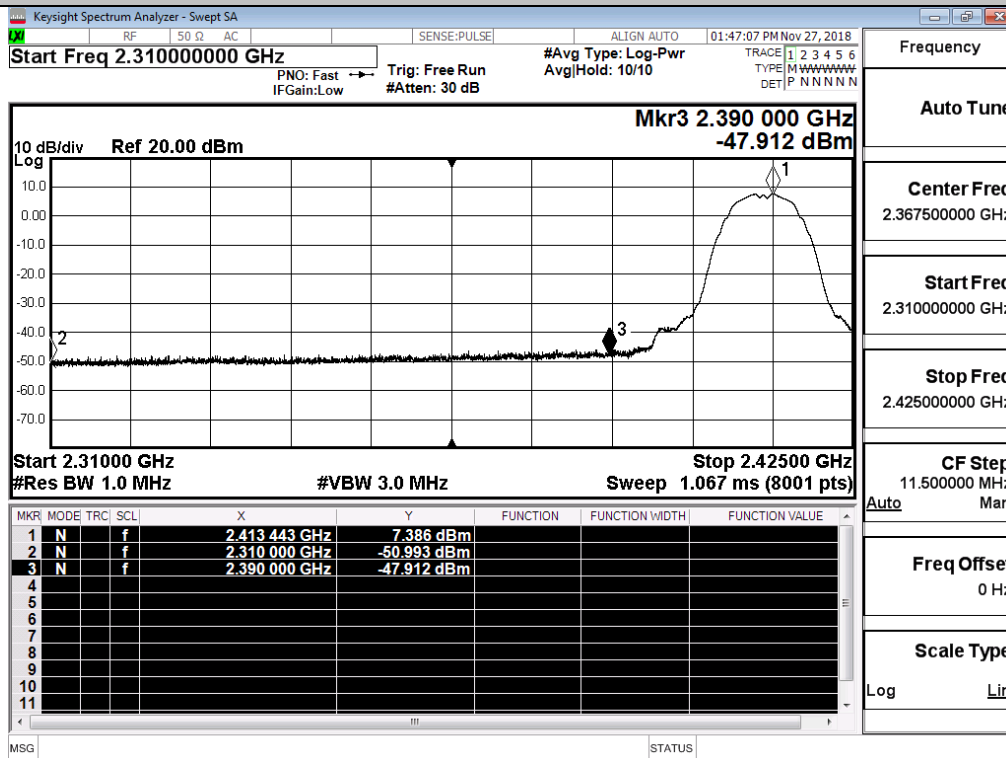


A.7 Restrict-band band-edge measurements

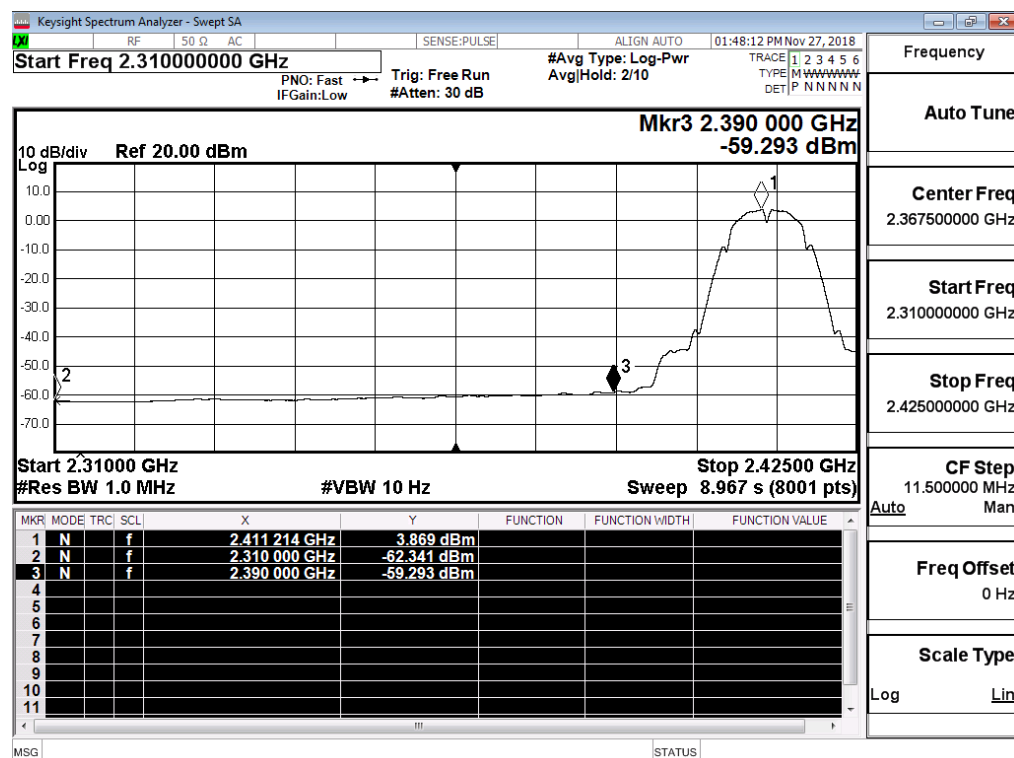
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-50.993	2.5	0	46.735	PEAK	74	PASS
	2412	Ant1	2310.0	-62.341	2.5	0	35.387	AV	54	PASS
	2412	Ant1	2390.0	-47.912	2.5	0	49.816	PEAK	74	PASS
	2412	Ant1	2390.0	-59.293	2.5	0	38.435	AV	54	PASS
	2462	Ant1	2483.5	-47.702	2.5	0	50.026	PEAK	74	PASS
	2462	Ant1	2483.5	-58.525	2.5	0	39.203	AV	54	PASS
	2462	Ant1	2500.0	-48.326	2.5	0	49.402	PEAK	74	PASS
	2462	Ant1	2500.0	-59.833	2.5	0	37.895	AV	54	PASS
11G	2412	Ant1	2310.0	-52.531	2.5	0	45.197	PEAK	74	PASS
	2412	Ant1	2310.0	-62.063	2.5	0	35.665	AV	54	PASS
	2412	Ant1	2390.0	-41.271	2.5	0	56.457	PEAK	74	PASS
	2412	Ant1	2390.0	-53.307	2.5	0	44.421	AV	54	PASS
	2462	Ant1	2483.5	-39.812	2.5	0	57.916	PEAK	74	PASS
	2462	Ant1	2483.5	-52.804	2.5	0	44.924	AV	54	PASS
	2462	Ant1	2500.0	-45.796	2.5	0	51.932	PEAK	74	PASS
	2462	Ant1	2500.0	-56.554	2.5	0	41.174	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-50.232	2.5	0	47.496	PEAK	74	PASS
	2412	Ant1	2310.0	-62.130	2.5	0	35.598	AV	54	PASS
	2412	Ant1	2390.0	-41.472	2.5	0	56.256	PEAK	74	PASS
	2412	Ant1	2390.0	-53.749	2.5	0	43.979	AV	54	PASS
	2462	Ant1	2483.5	-38.789	2.5	0	58.939	PEAK	74	PASS
	2462	Ant1	2483.5	-55.124	2.5	0	42.604	AV	54	PASS
	2462	Ant1	2500.0	-48.762	2.5	0	48.966	PEAK	74	PASS
	2462	Ant1	2500.0	-58.603	2.5	0	39.125	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-52.207	2.5	0	45.521	PEAK	74	PASS
	2422	Ant1	2310.0	-62.413	2.5	0	35.315	AV	54	PASS

	2422	Ant1	2390.0	-43.971	2.5	0	53.757	PEAK	74	PASS
	2422	Ant1	2390.0	-55.002	2.5	0	42.726	AV	54	PASS
	2452	Ant1	2483.5	-44.794	2.5	0	52.934	PEAK	74	PASS
	2452	Ant1	2483.5	-56.718	2.5	0	41.010	AV	54	PASS
	2452	Ant1	2500.0	-47.078	2.5	0	50.650	PEAK	74	PASS
	2452	Ant1	2500.0	-58.697	2.5	0	39.031	AV	54	PASS

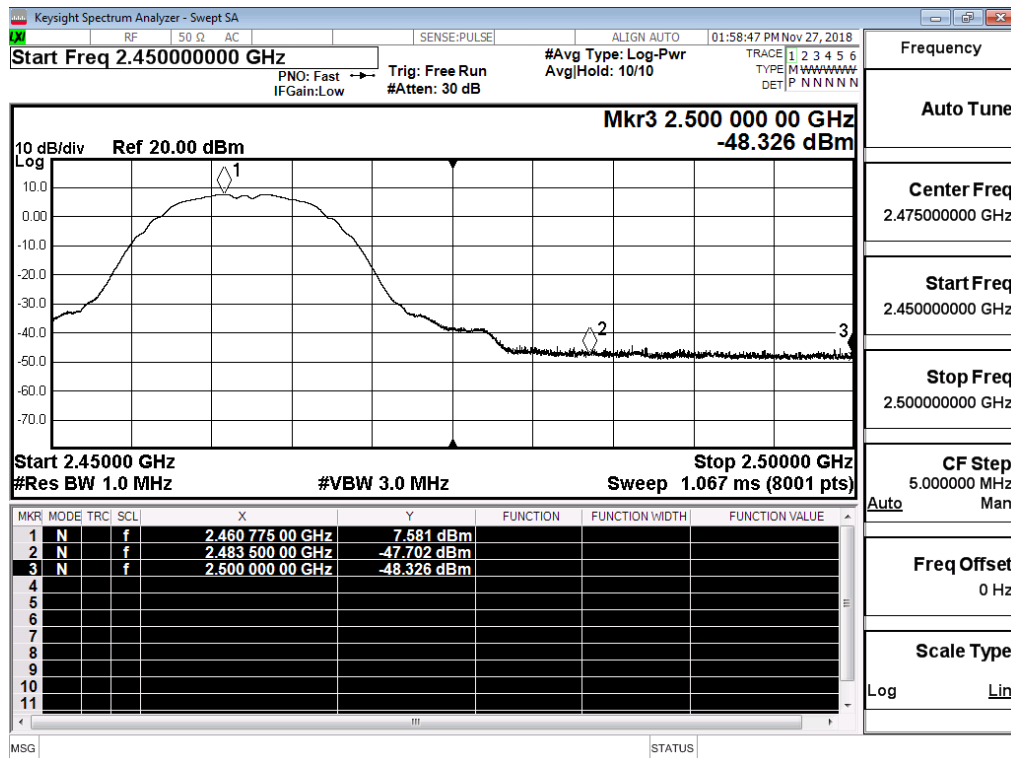
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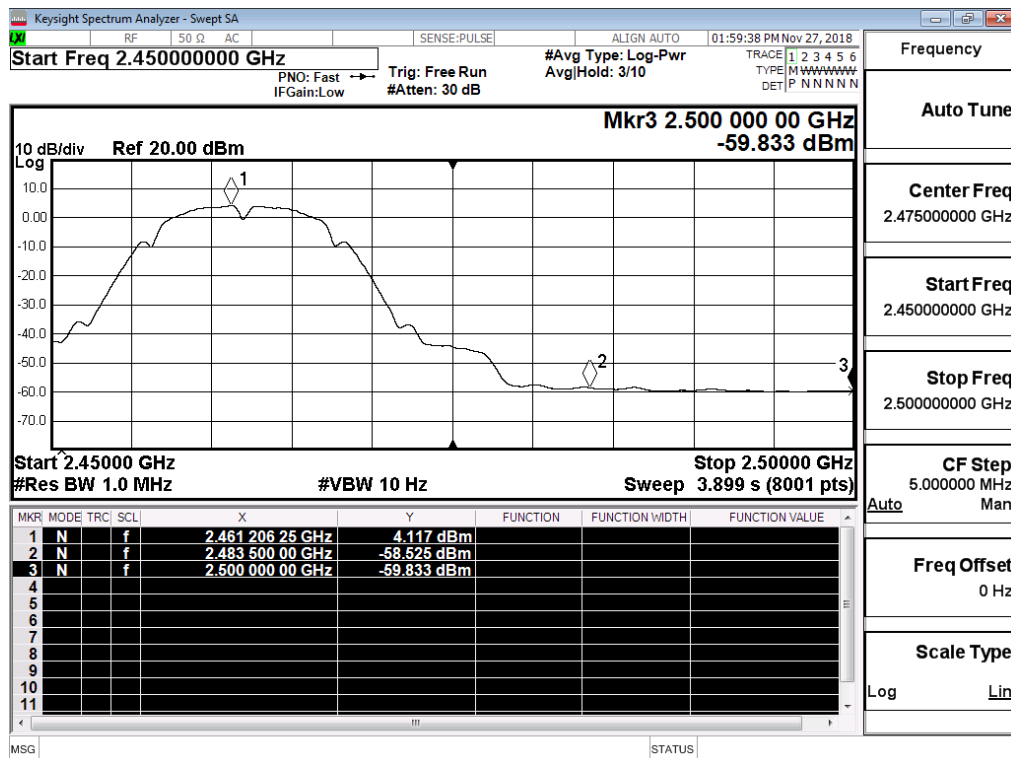
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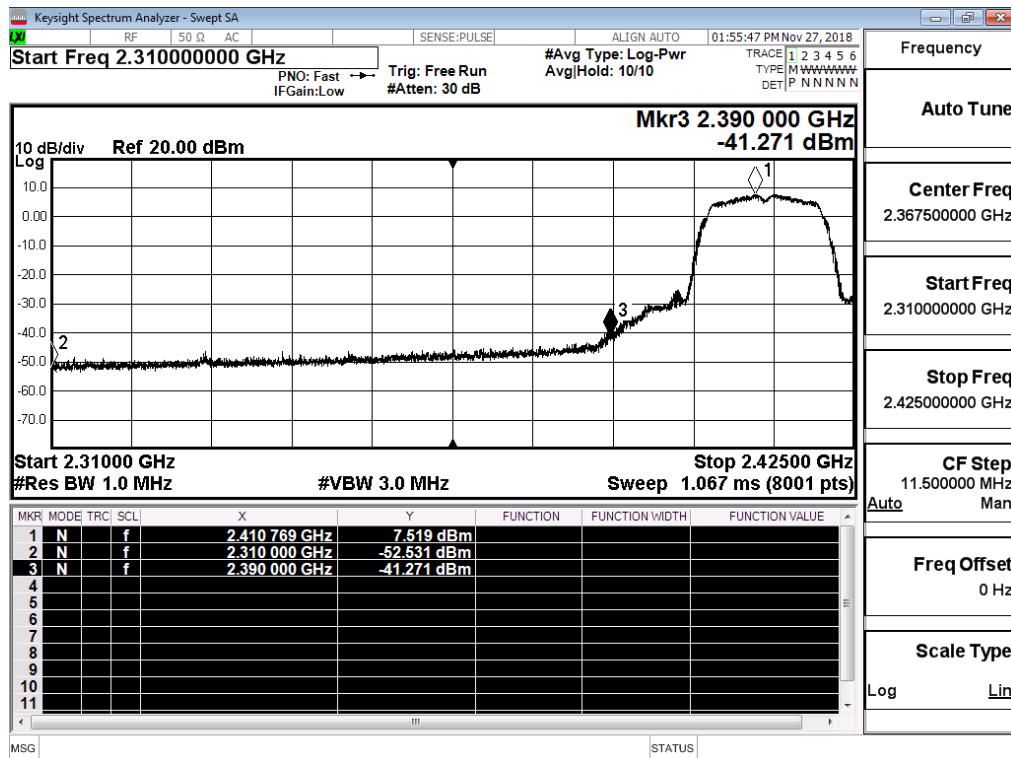
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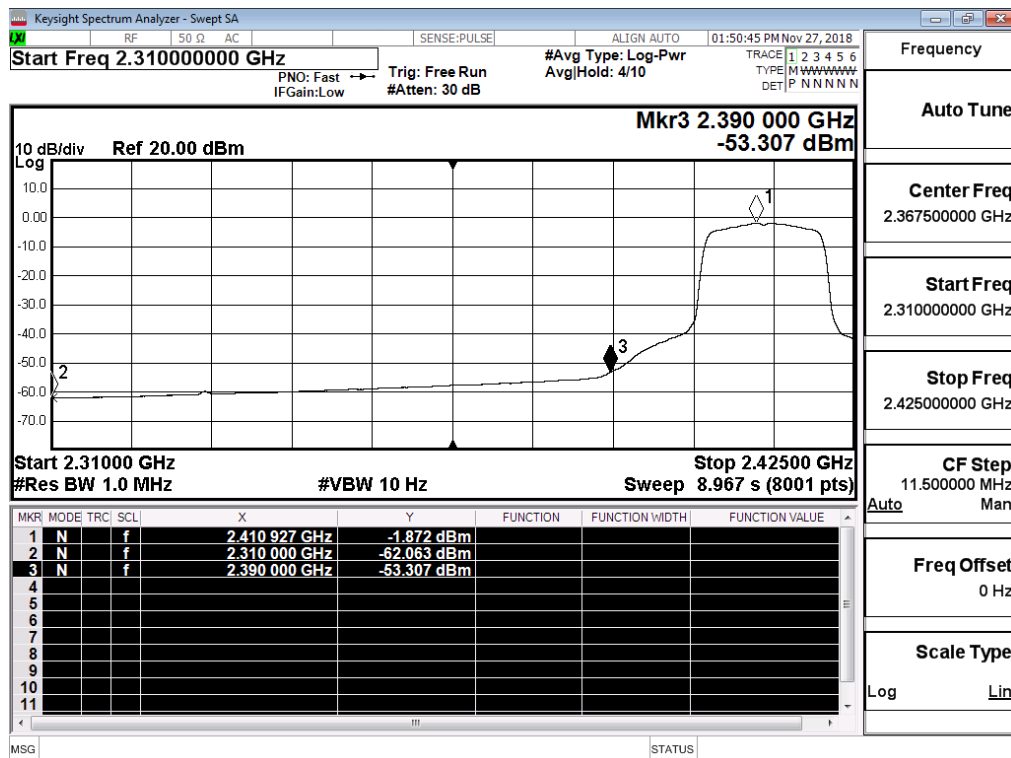
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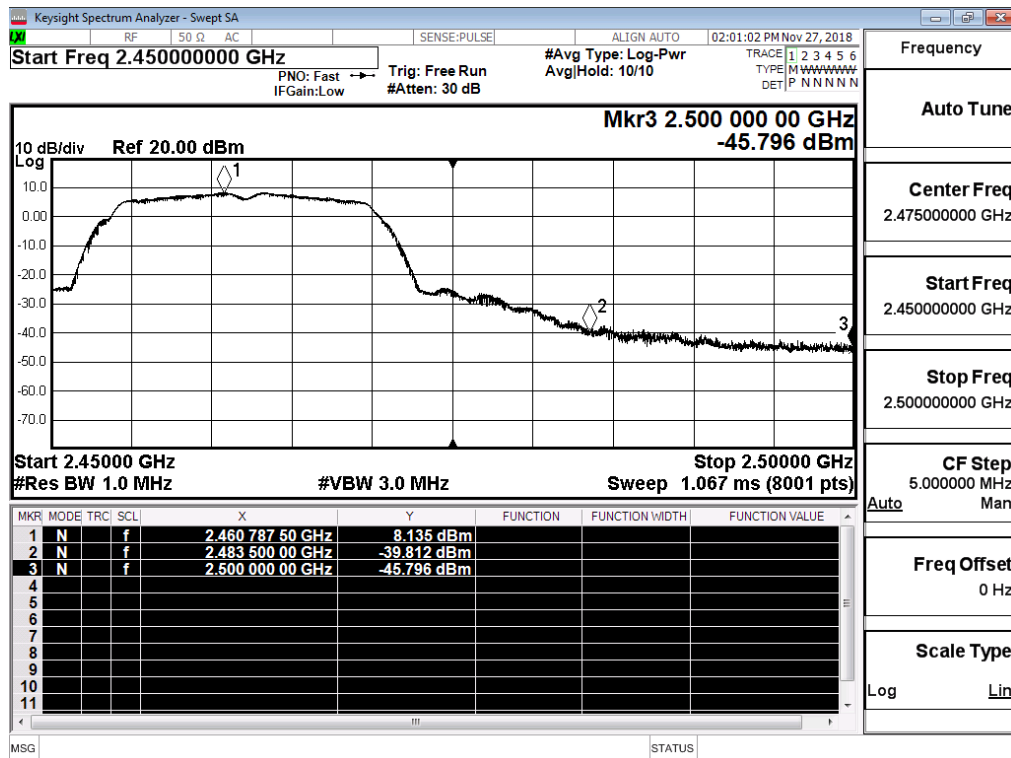
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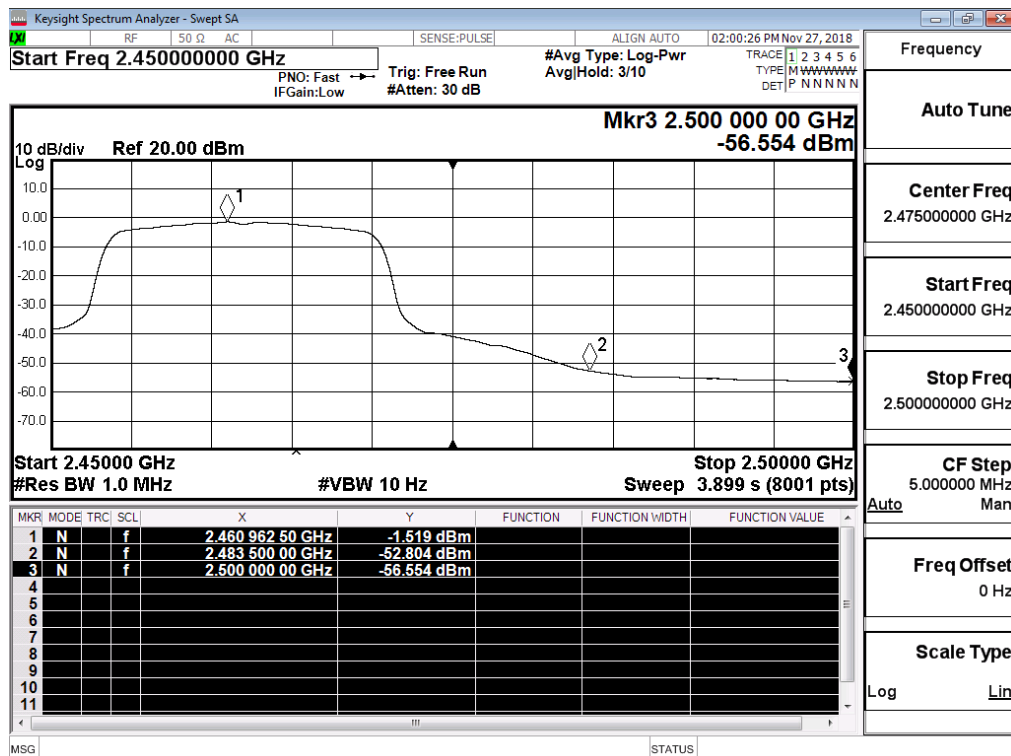
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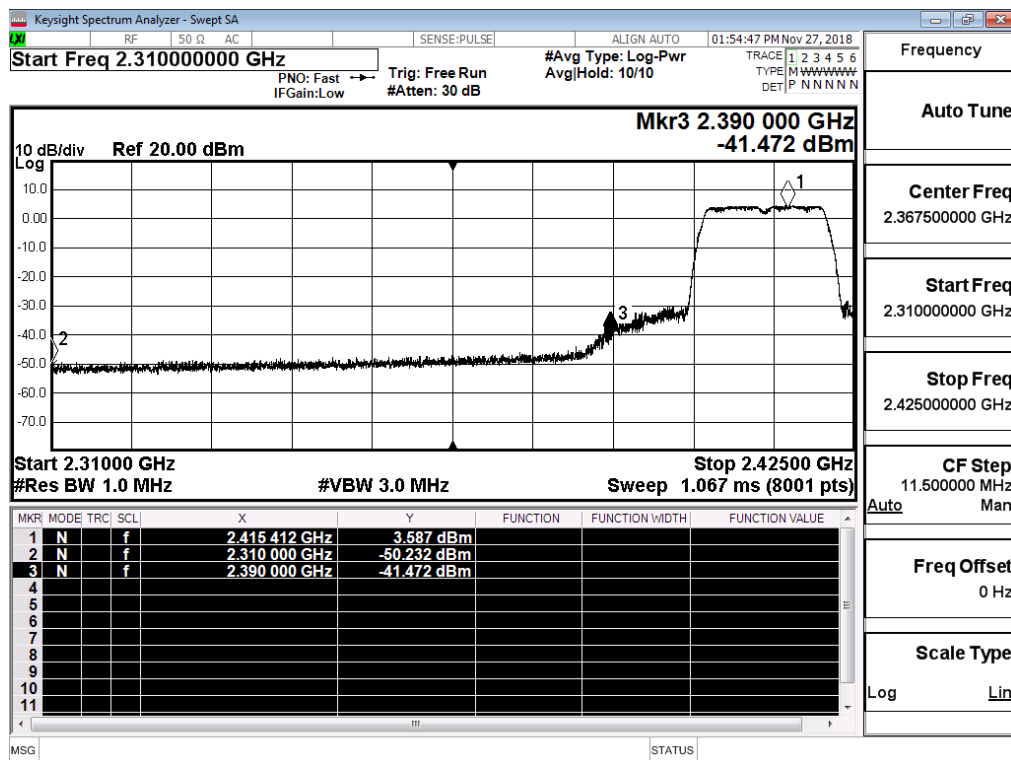
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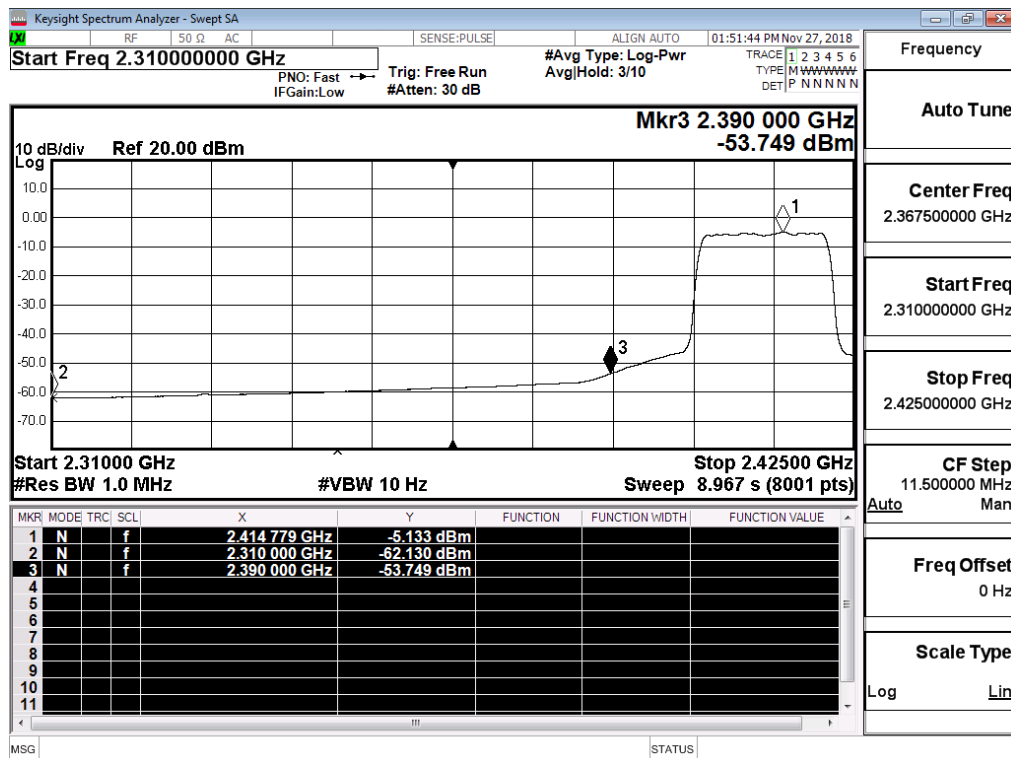
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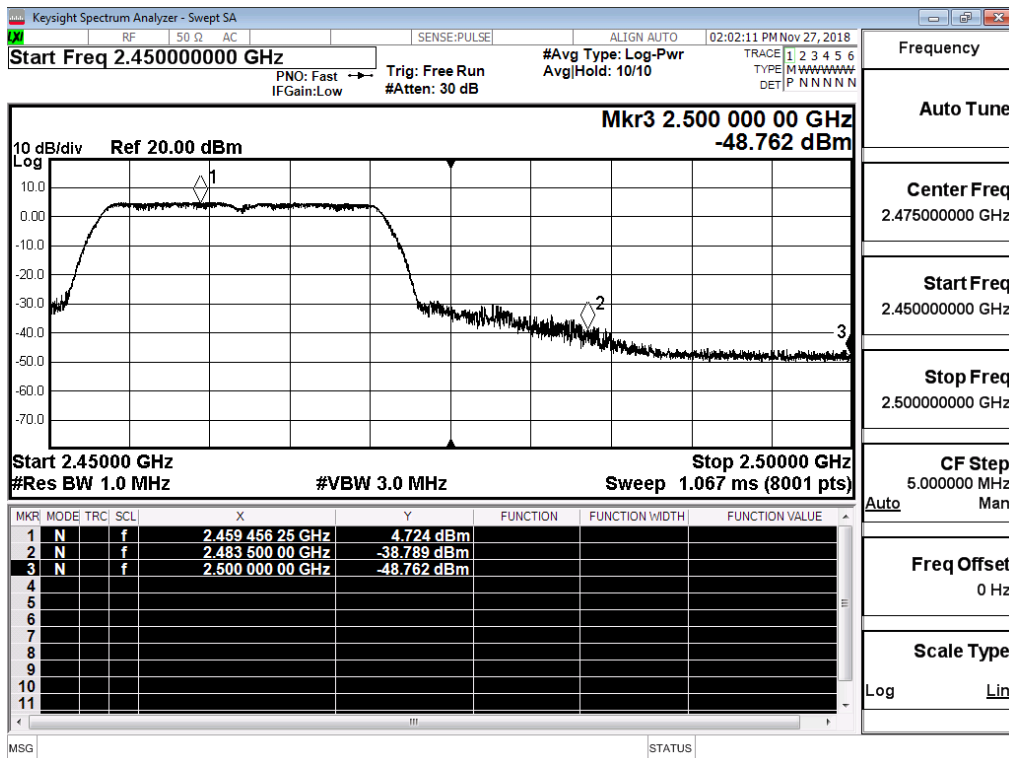
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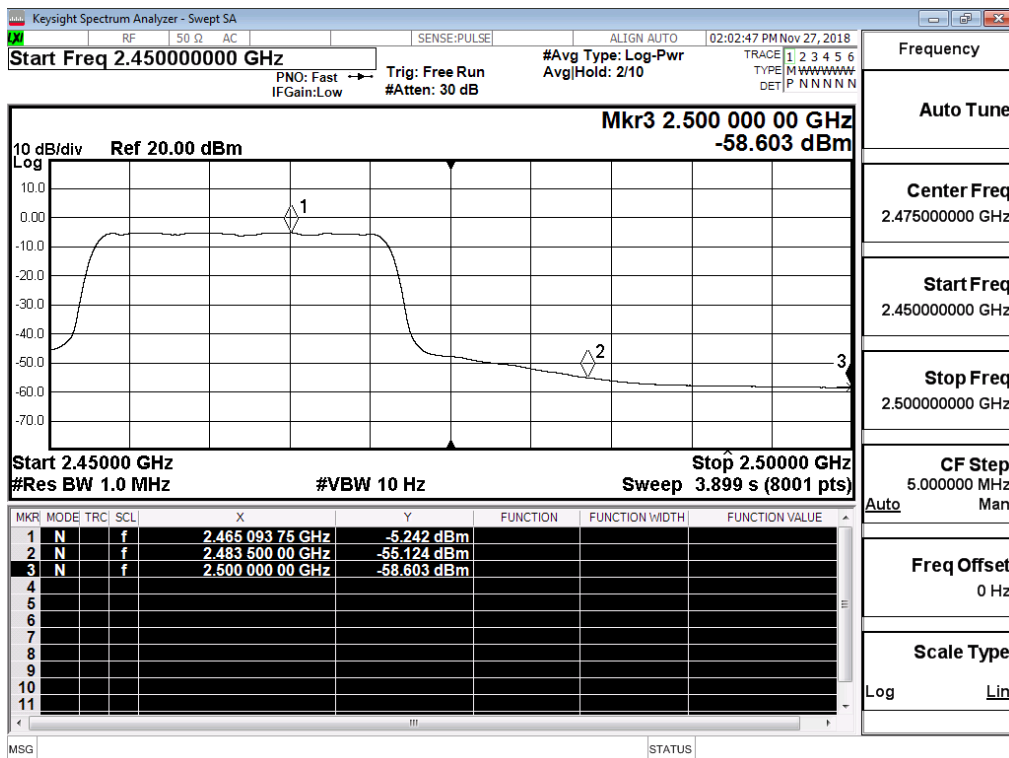
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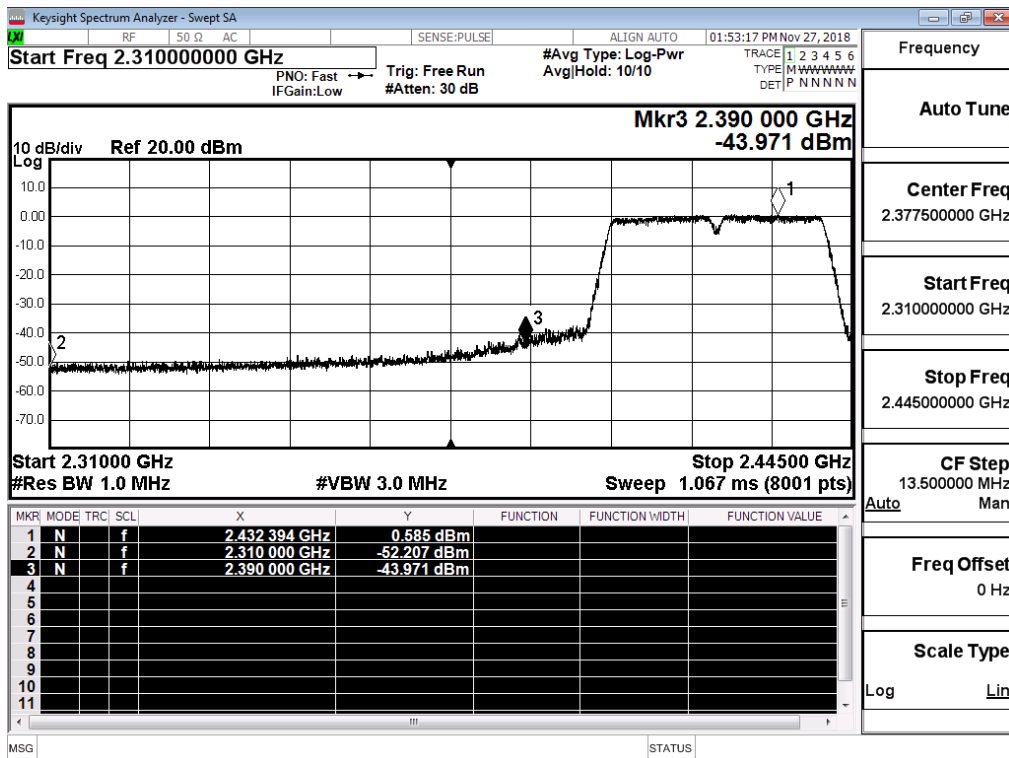
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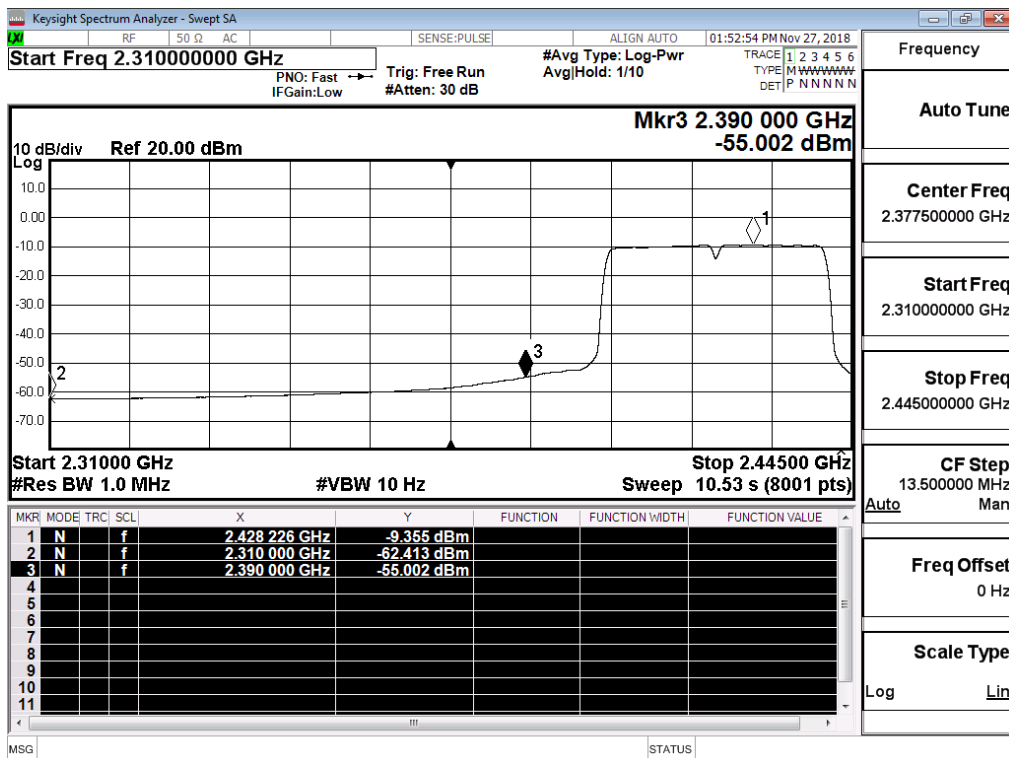
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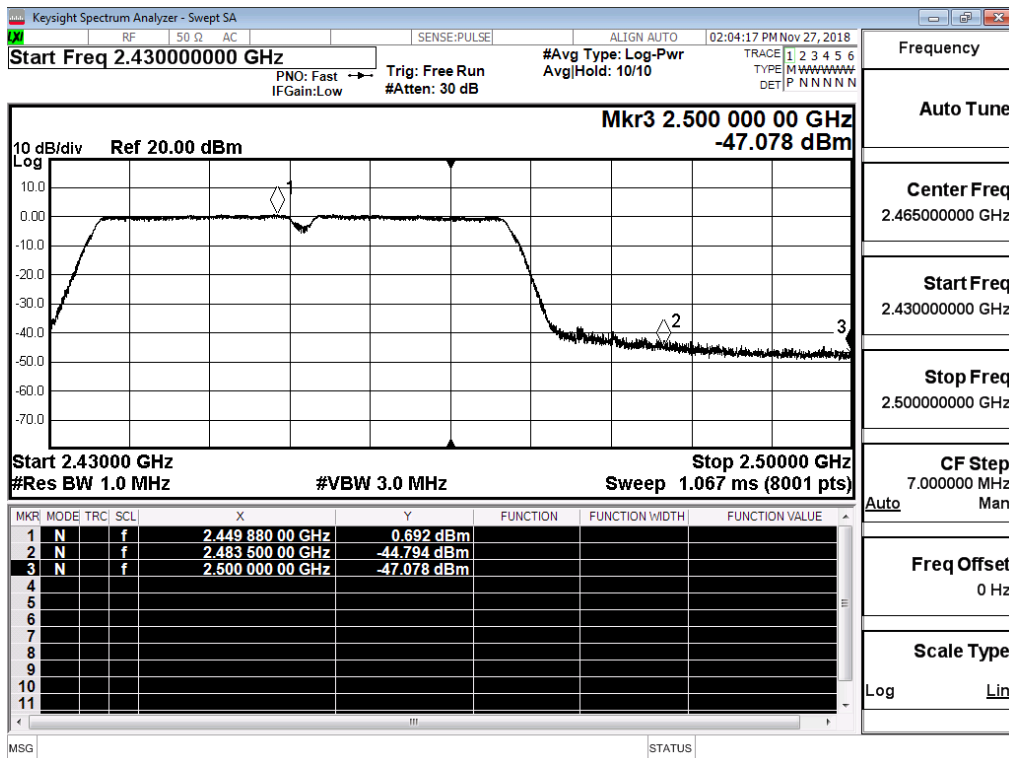
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Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

