

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Intelligent Visual Ear Pick

Trade Mark: E-enjoy

Test Model: E-enjoy P20

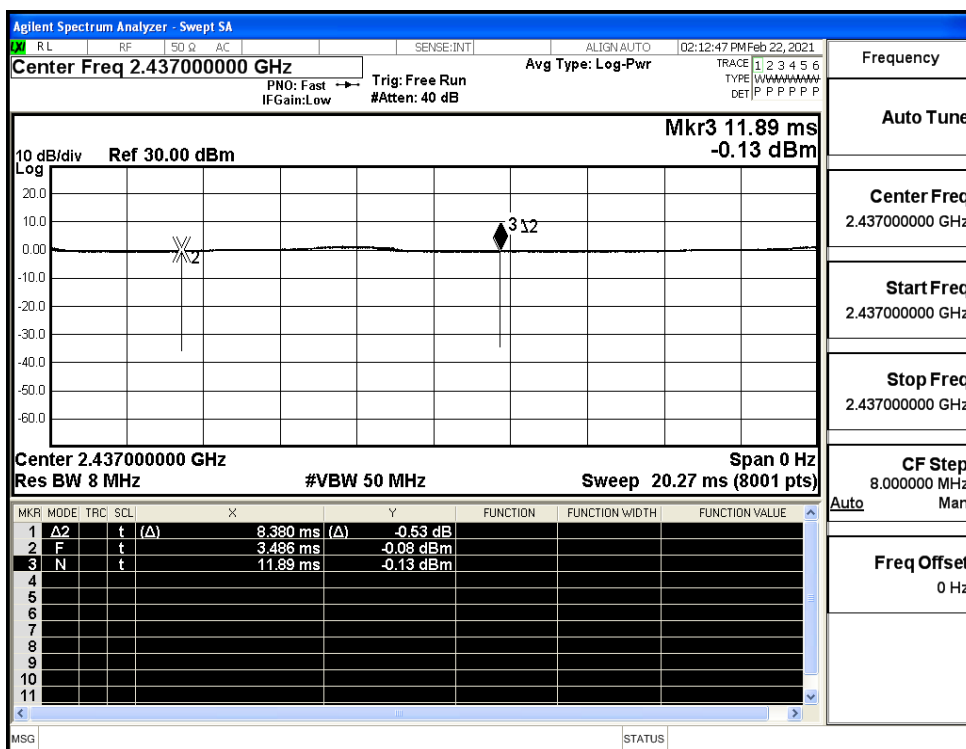
Environmental Conditions

Temperature:	22.6 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

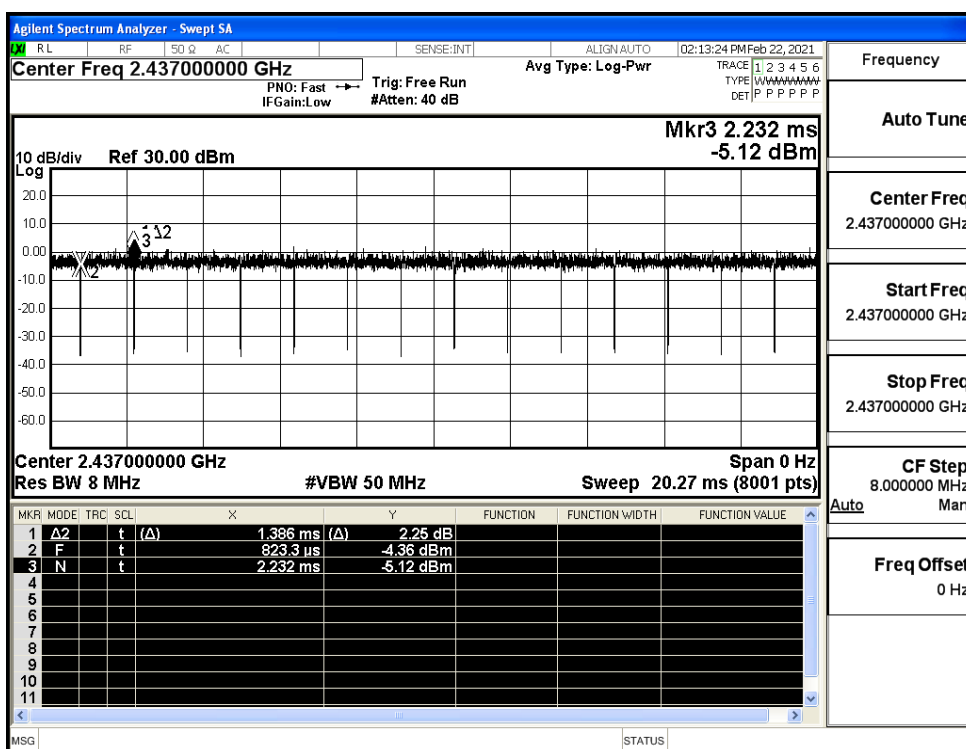
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	1/T Minimum VBW(KHz)	Verdict
11B	2437	Ant1	99.73	0.12	PASS
11G	2437	Ant1	98.38	0.72	PASS
11N20SISO	2437	Ant1	98.27	0.77	PASS
11N40SISO	2437	Ant1	97.69	1.55	PASS

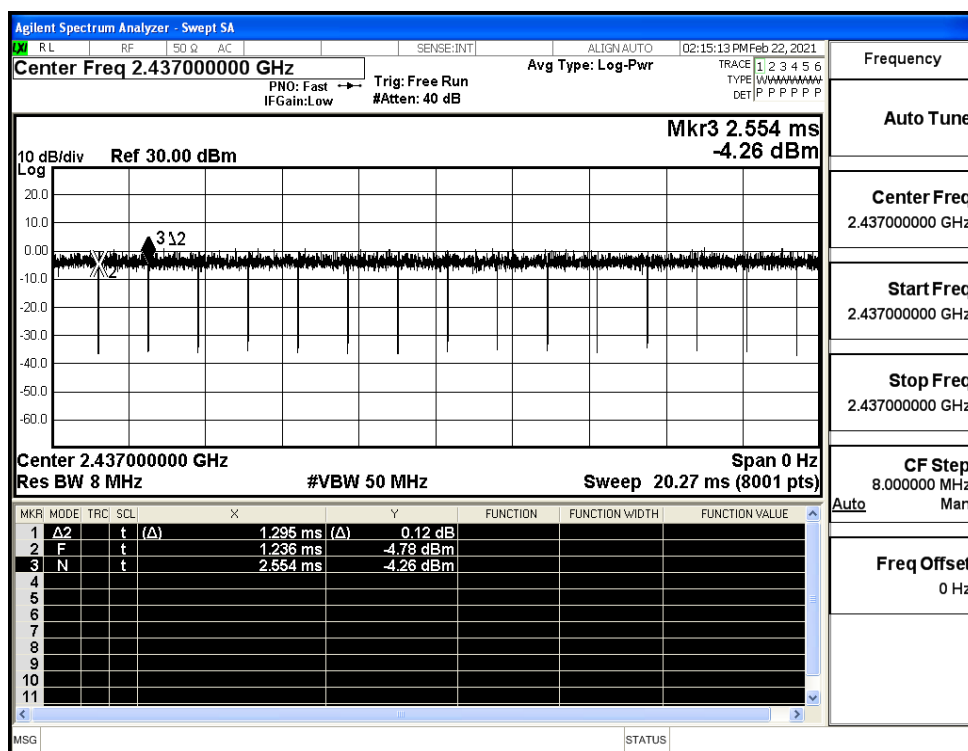
Duty Cycle_11B_2437_Ant1



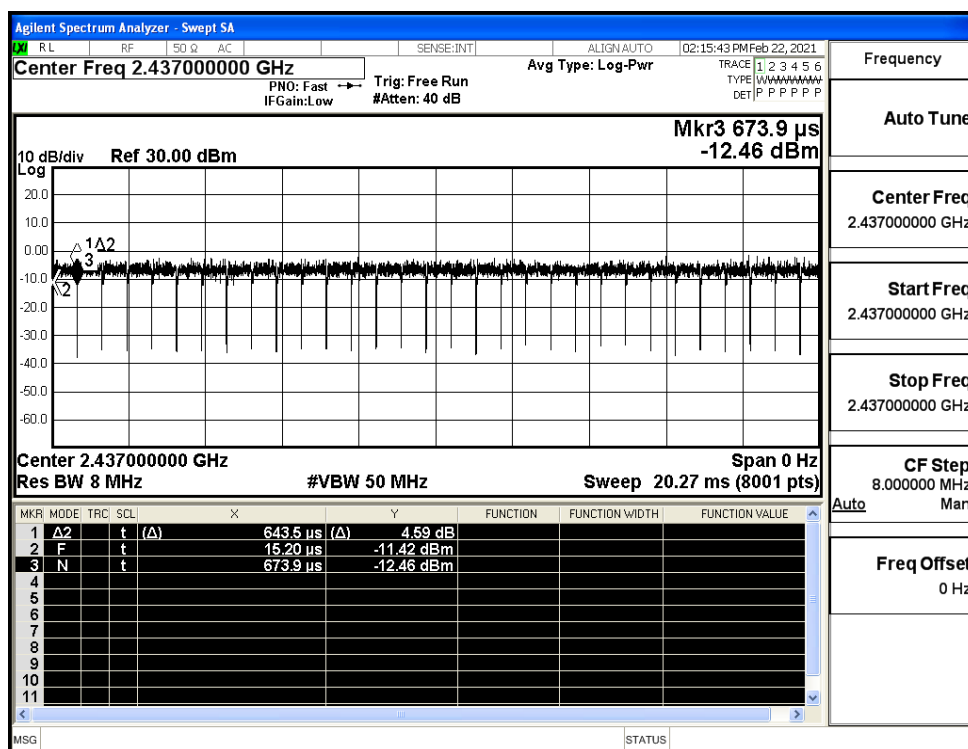
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



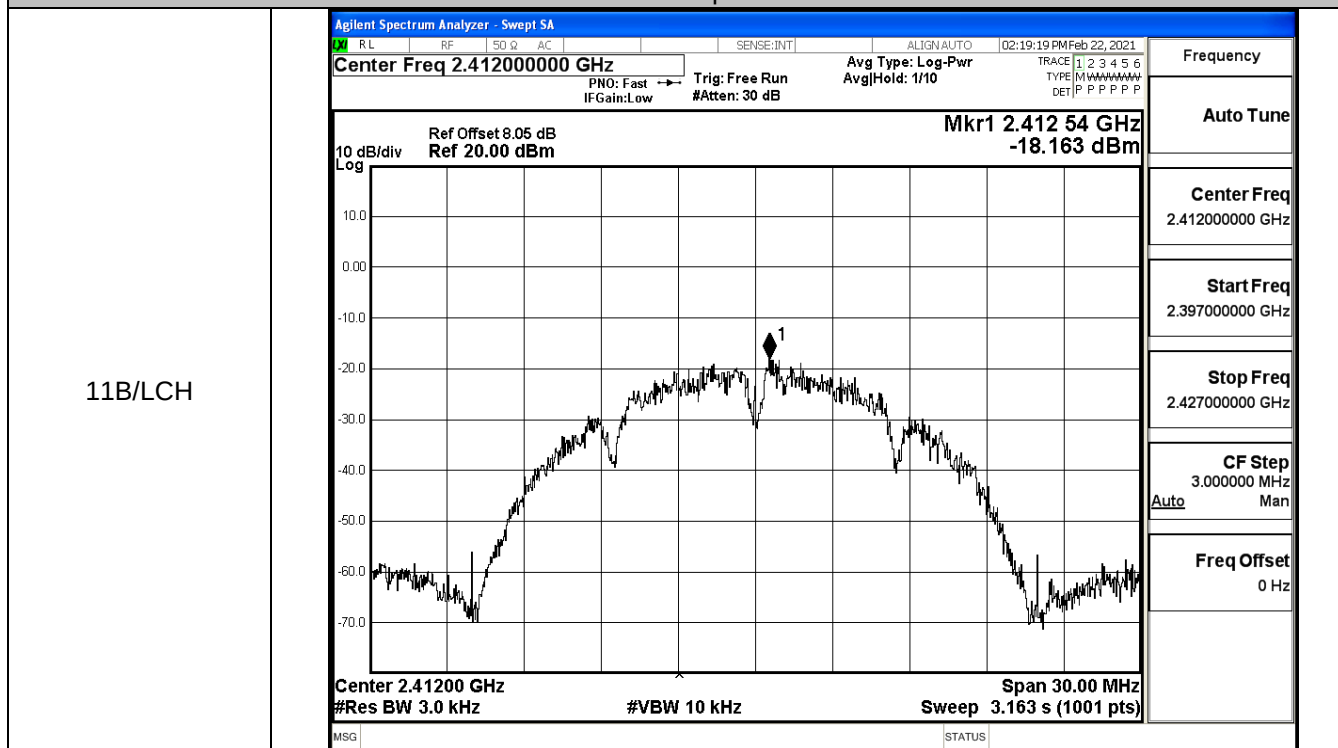
A.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	8.61	30	PASS
	MCH	9.02	30	PASS
	HCH	9.31	30	PASS
11G	LCH	7.71	30	PASS
	MCH	9.17	30	PASS
	HCH	9.43	30	PASS
11N20SISO	LCH	7.27	30	PASS
	MCH	8.73	30	PASS
	HCH	9.31	30	PASS
11N40SISO	LCH	8.75	30	PASS
	MCH	9.47	30	PASS
	HCH	9.49	30	PASS

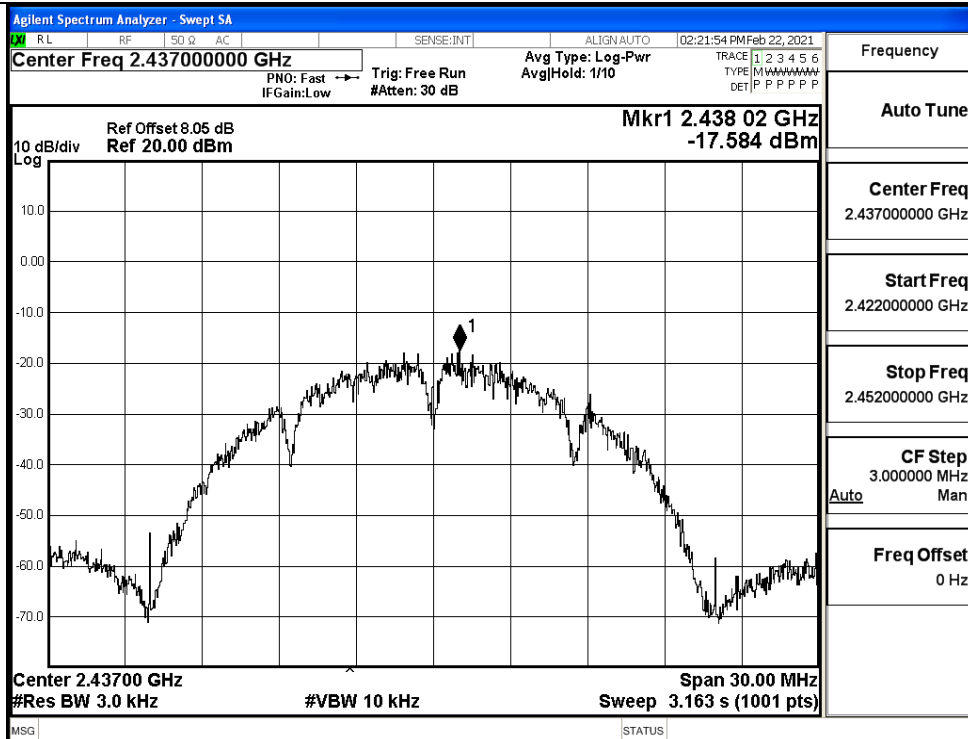
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-18.163	8	PASS
	MCH	-17.584	8	PASS
	HCH	-17.218	8	PASS
11G	LCH	-26.678	8	PASS
	MCH	-24.121	8	PASS
	HCH	-23.671	8	PASS
11N20SISO	LCH	-26.622	8	PASS
	MCH	-24.501	8	PASS
	HCH	-23.075	8	PASS
11N40SISO	LCH	-27.011	8	PASS
	MCH	-26.432	8	PASS
	HCH	-25.573	8	PASS

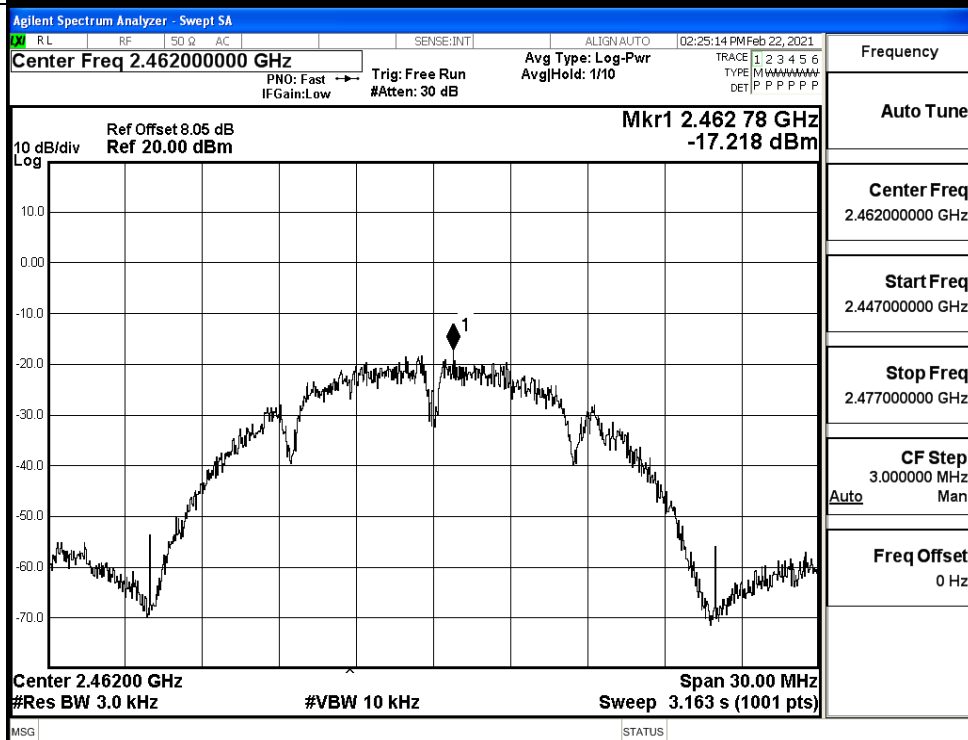
Test Graphs



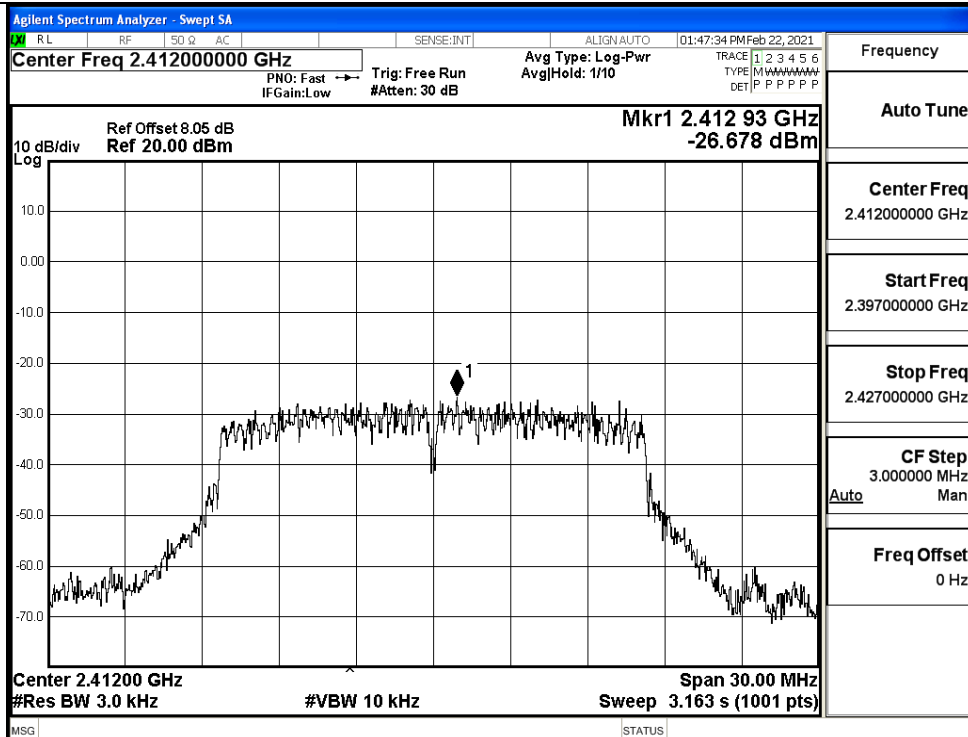
11B/MCH



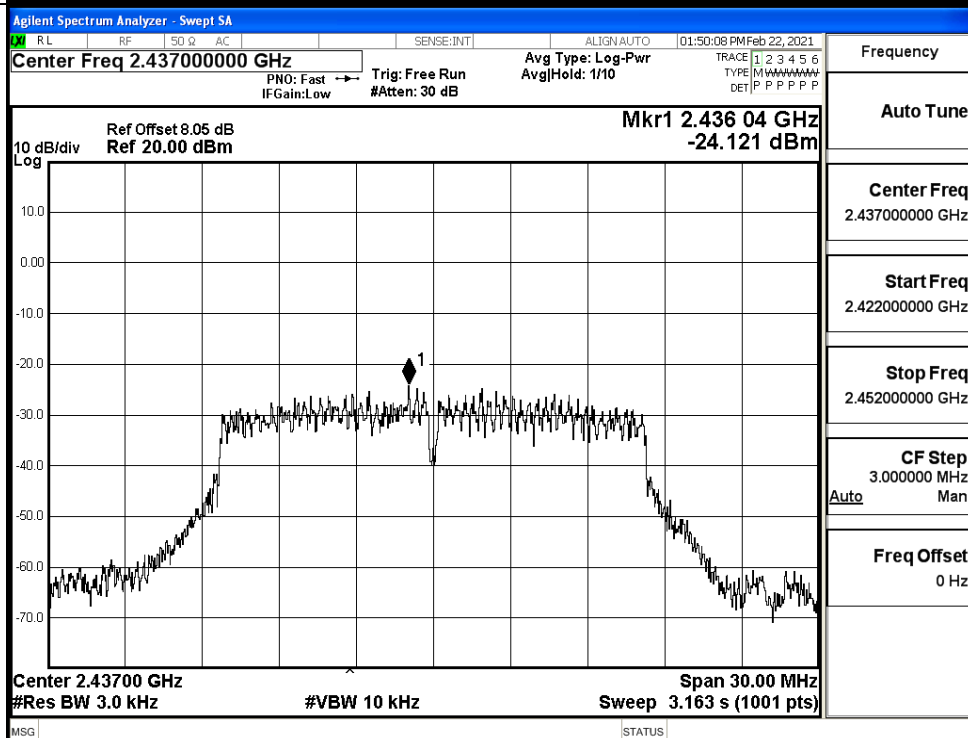
11B/HCH



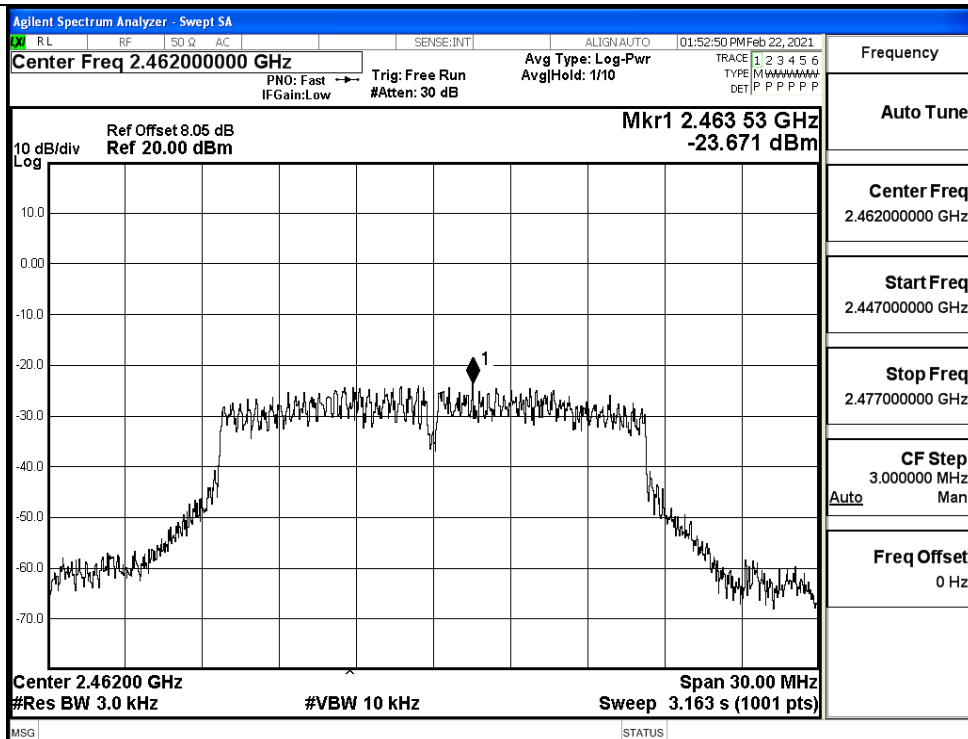
11G/LCH



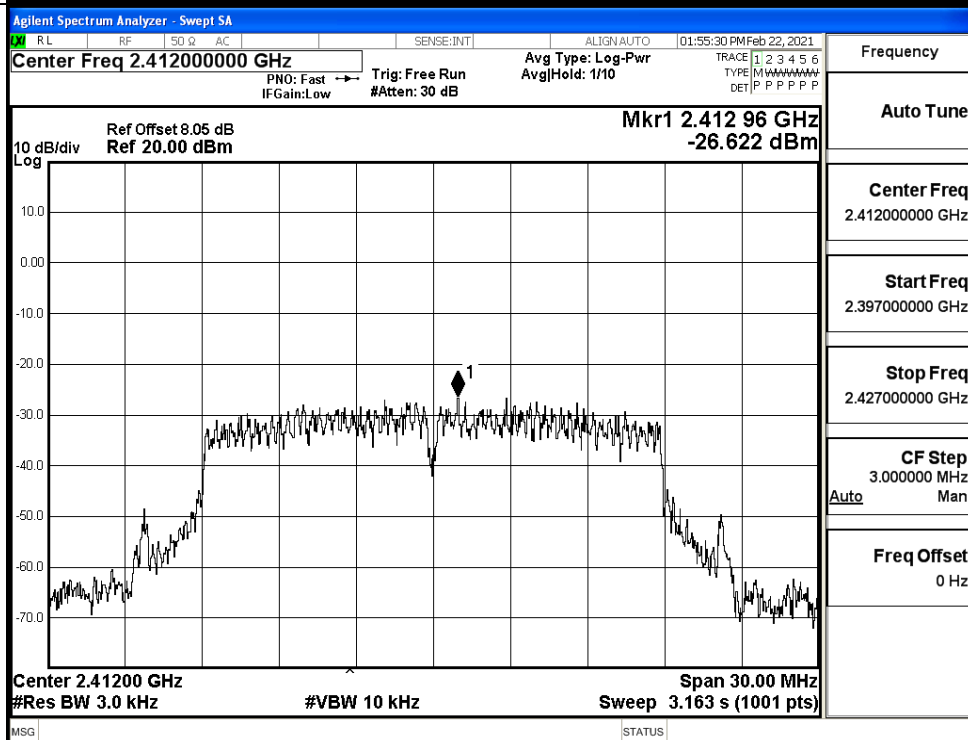
11G/MCH

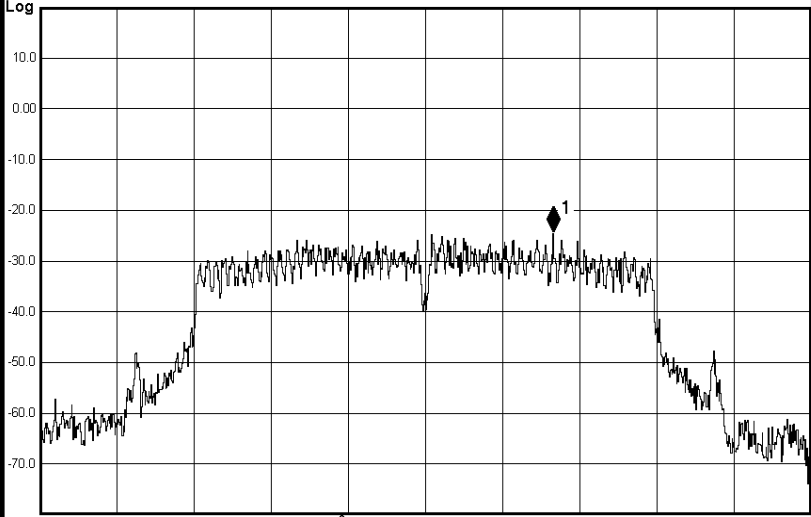
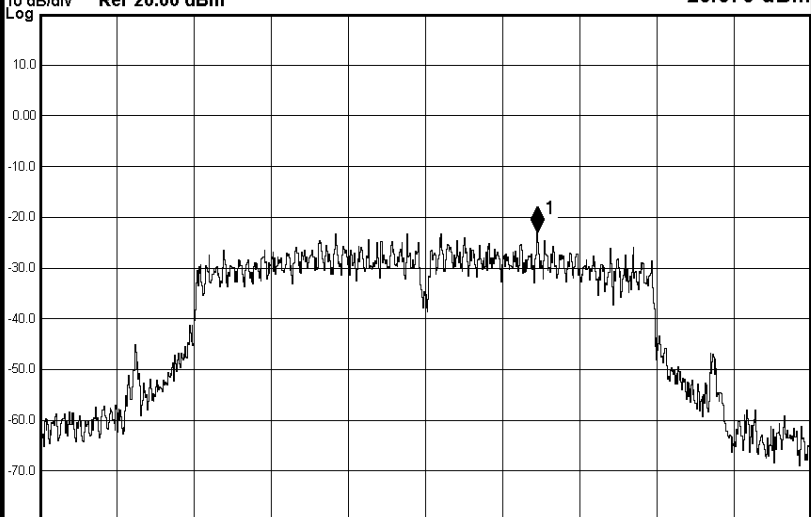


11G/HCH

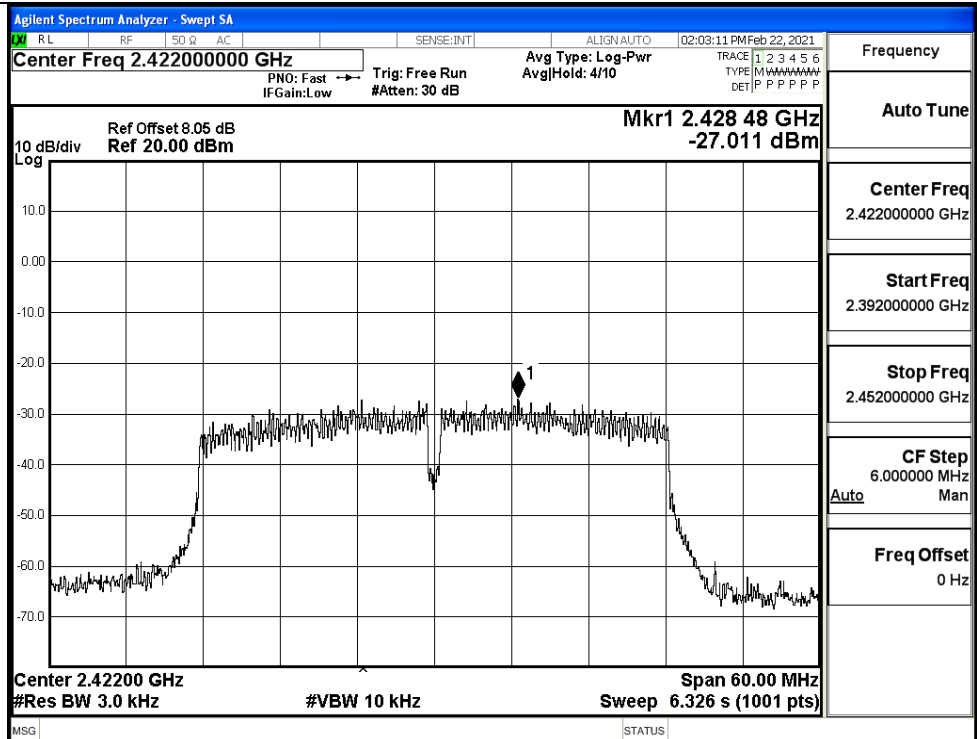


11N20SISO/LCH

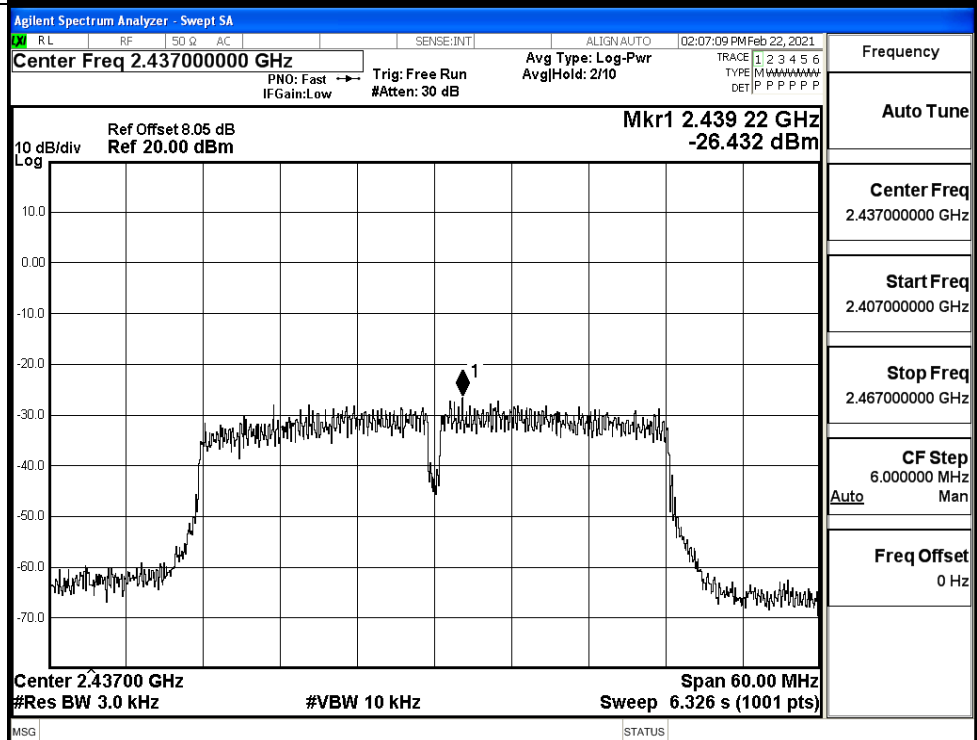


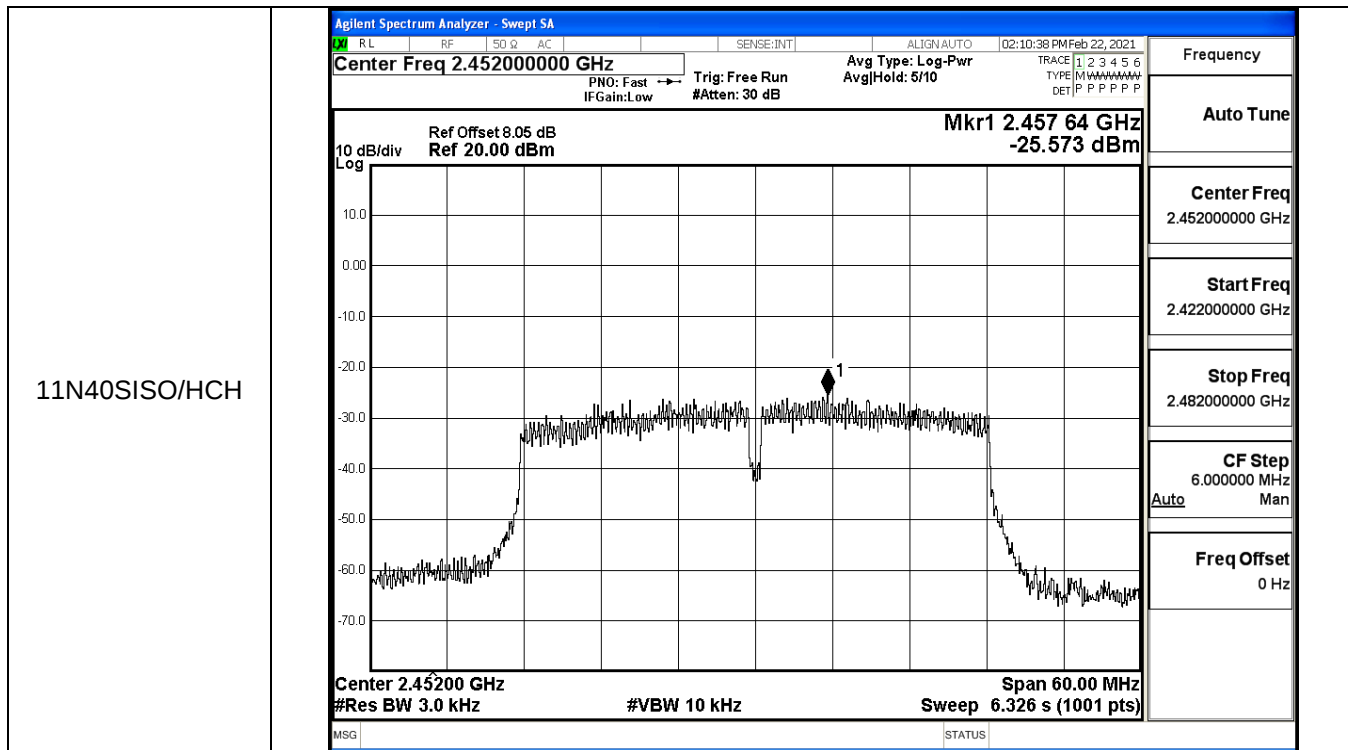
11N20SISO/MCH	Agilent Spectrum Analyzer - Swept SA RL RF SO Q AC SENSE:INT ALIGN: AUTO 01:58:11 PM Feb 22, 2021 Center Freq 2.437000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 1/10 Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.441 98 GHz -24.501 dBm 10 dB/div Log  Center 2.43700 GHz Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.422000000 GHz Stop Freq 2.452000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/HCH	Agilent Spectrum Analyzer - Swept SA RL RF SO Q AC SENSE:INT ALIGN: AUTO 02:00:02 PM Feb 22, 2021 Center Freq 2.462000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 1/10 Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.466 35 GHz -23.075 dBm 10 dB/div Log  Center 2.46200 GHz Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) MSG STATUS Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.447000000 GHz Stop Freq 2.477000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz

11N40SISO/LCH



11N40SISO/MCH



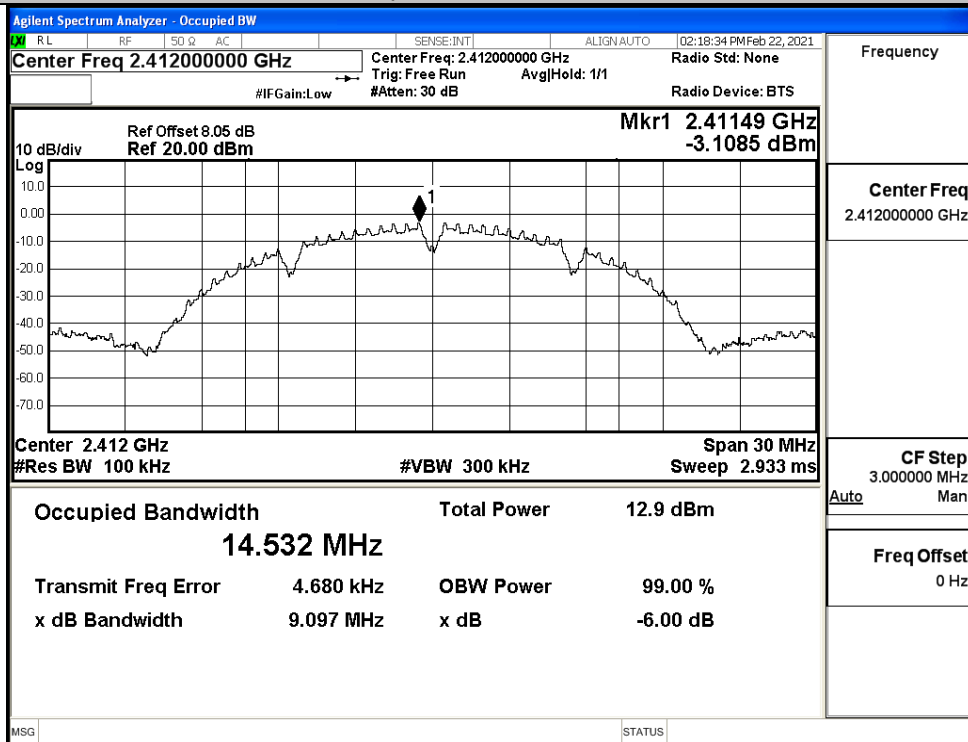


A.4 6dB Bandwidth

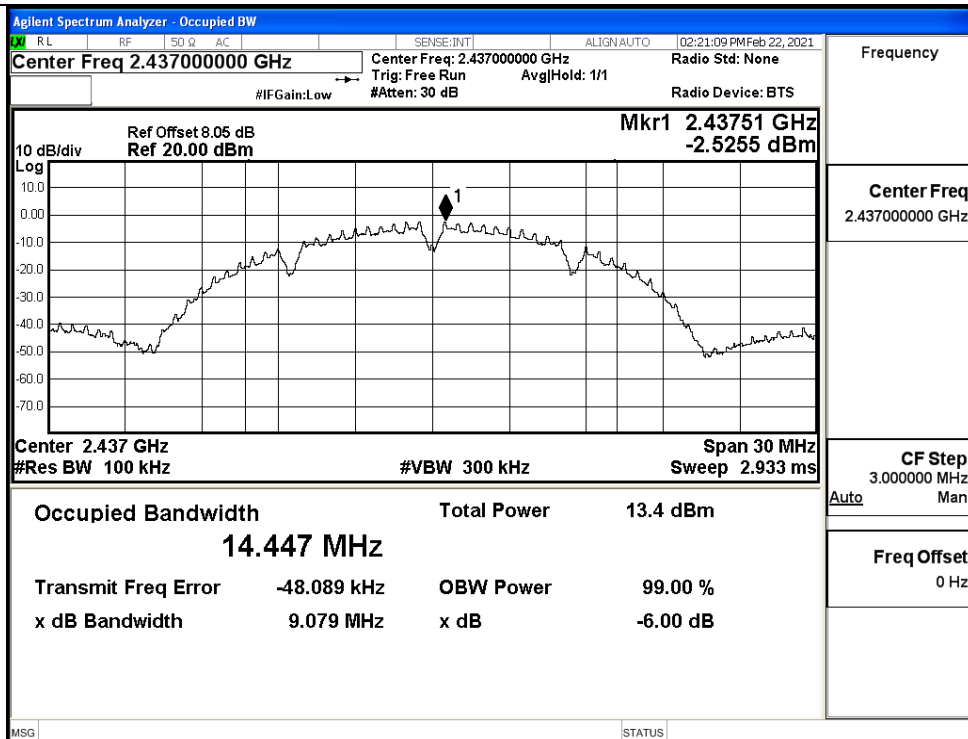
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.097	≥ 0.5	PASS
	MCH	9.079	≥ 0.5	PASS
	HCH	9.091	≥ 0.5	PASS
11G	LCH	15.35	≥ 0.5	PASS
	MCH	15.49	≥ 0.5	PASS
	HCH	15.11	≥ 0.5	PASS
11N20SISO	LCH	15.14	≥ 0.5	PASS
	MCH	15.12	≥ 0.5	PASS
	HCH	15.47	≥ 0.5	PASS
11N40SISO	LCH	35.36	≥ 0.5	PASS
	MCH	35.21	≥ 0.5	PASS
	HCH	35.32	≥ 0.5	PASS

Test Graphs

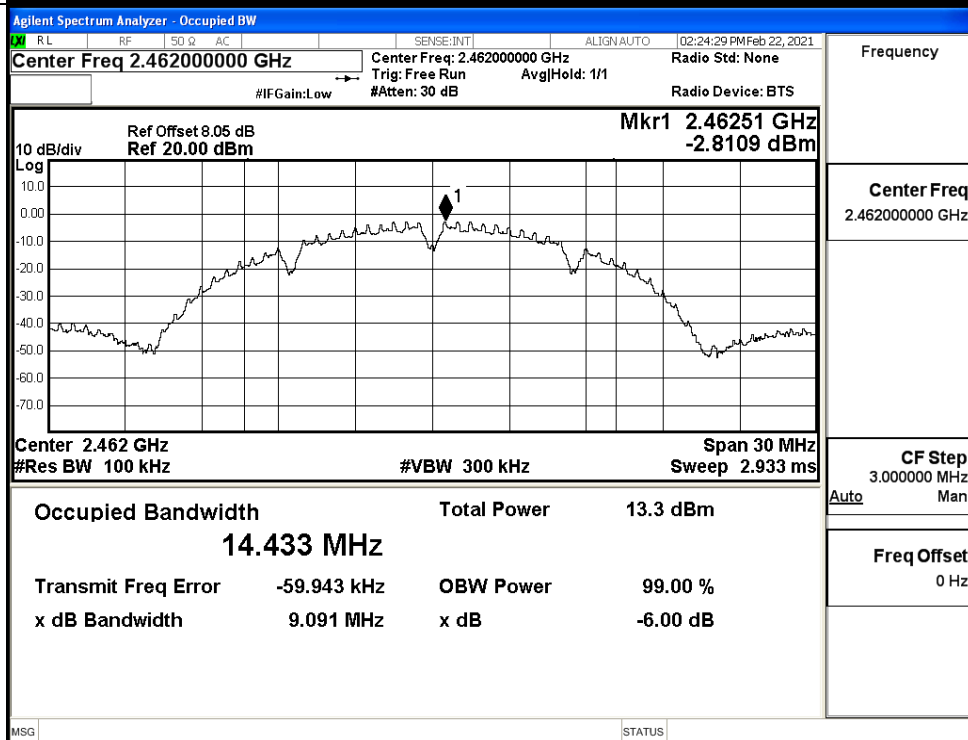
11B/LCH



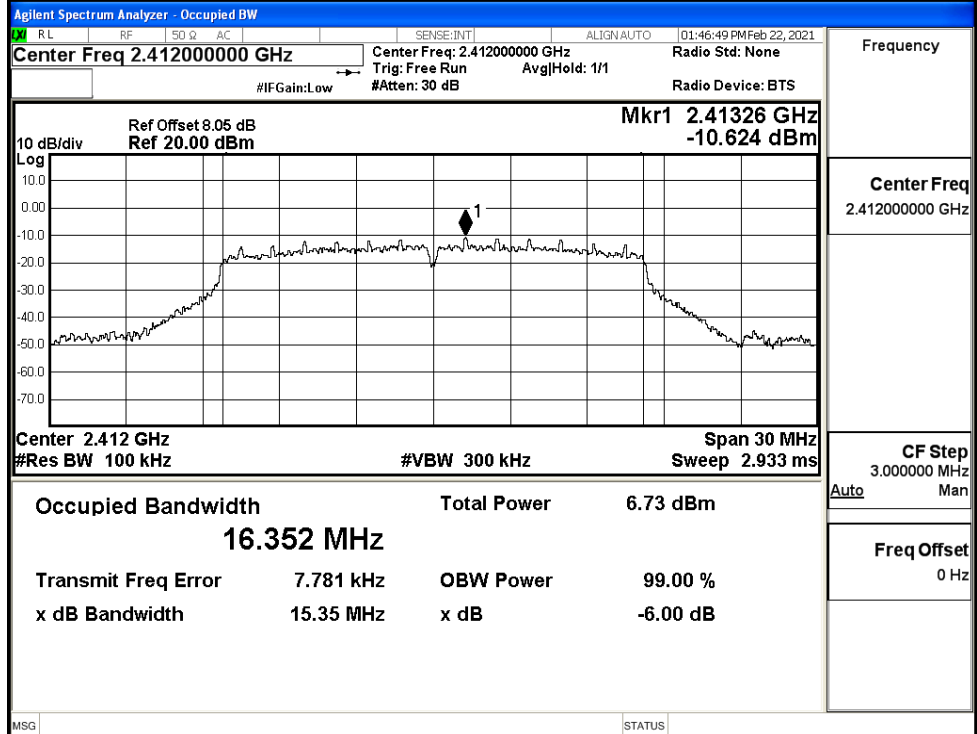
11B/MCH



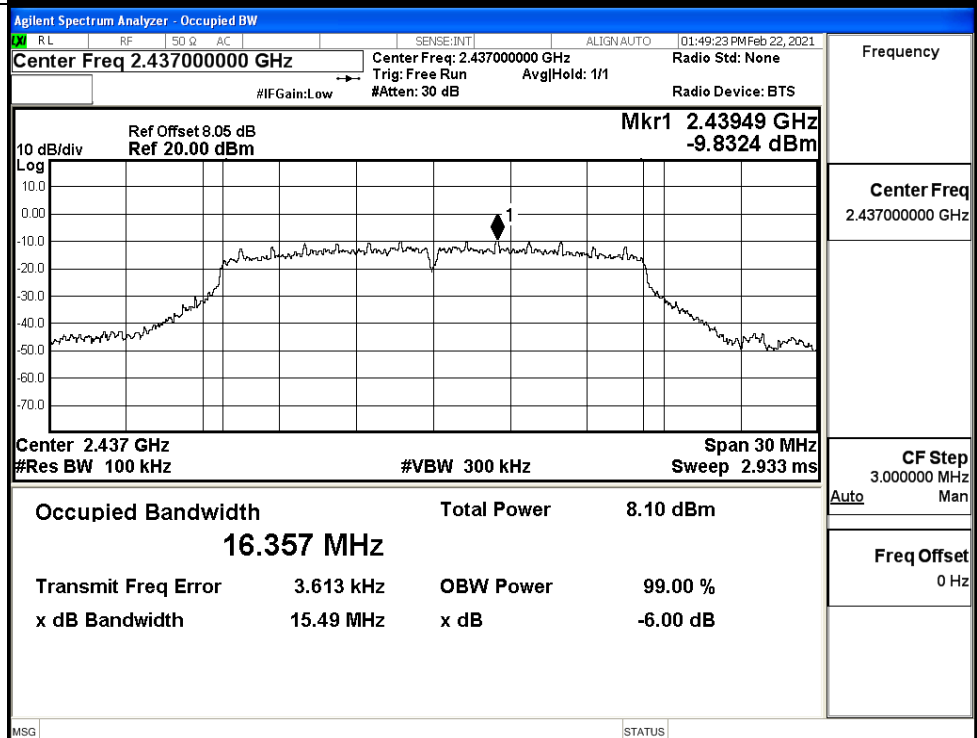
11B/HCH



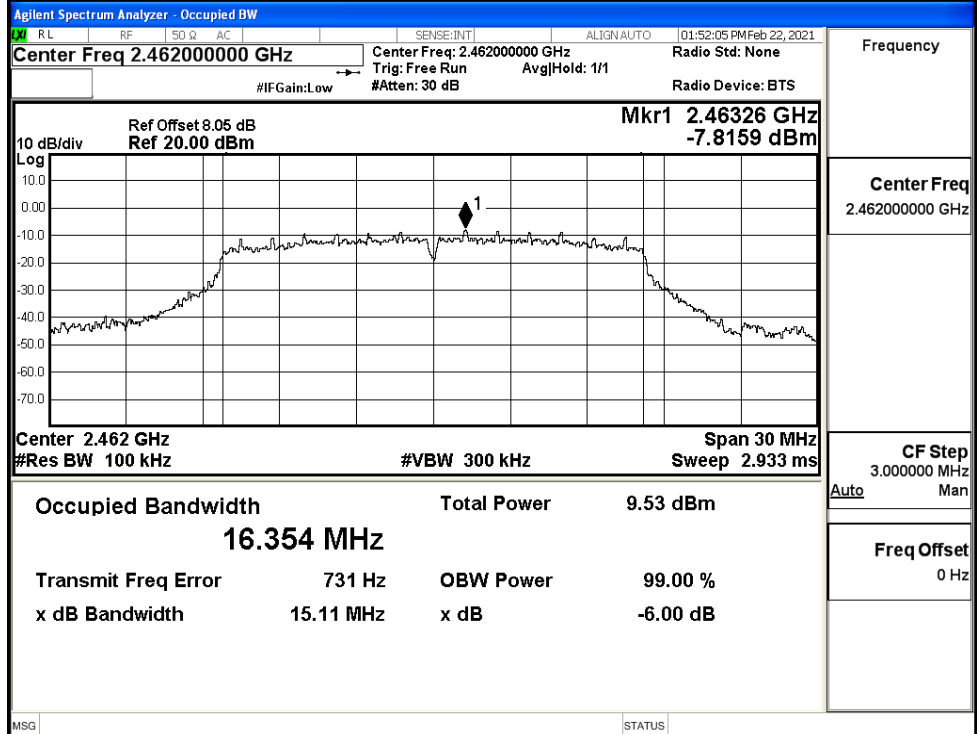
11G/LCH



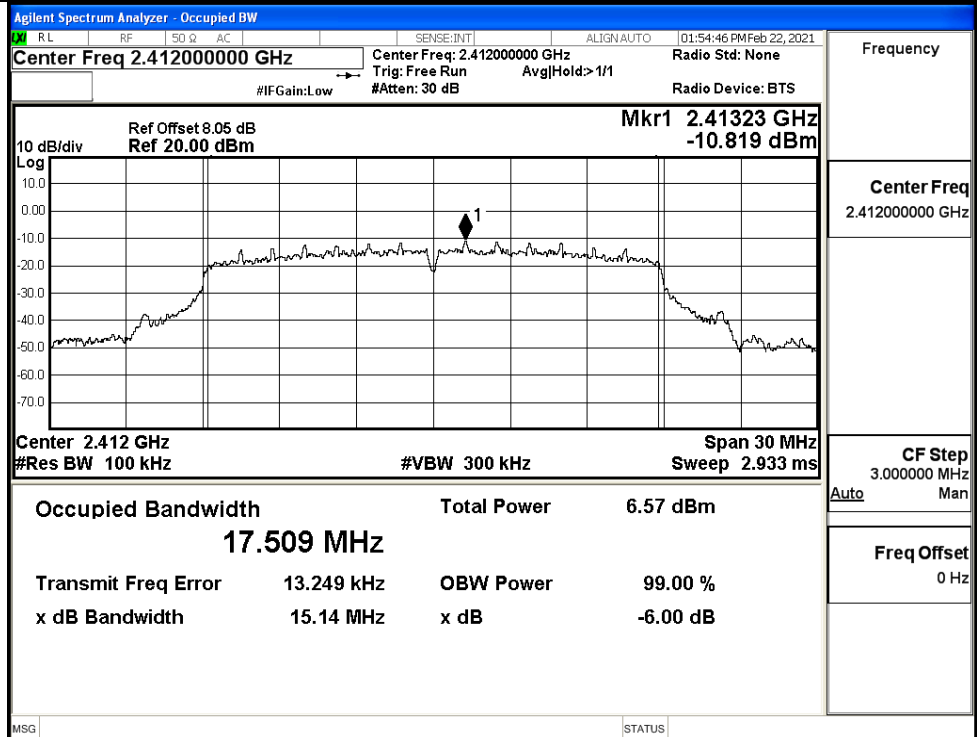
11G/MCH



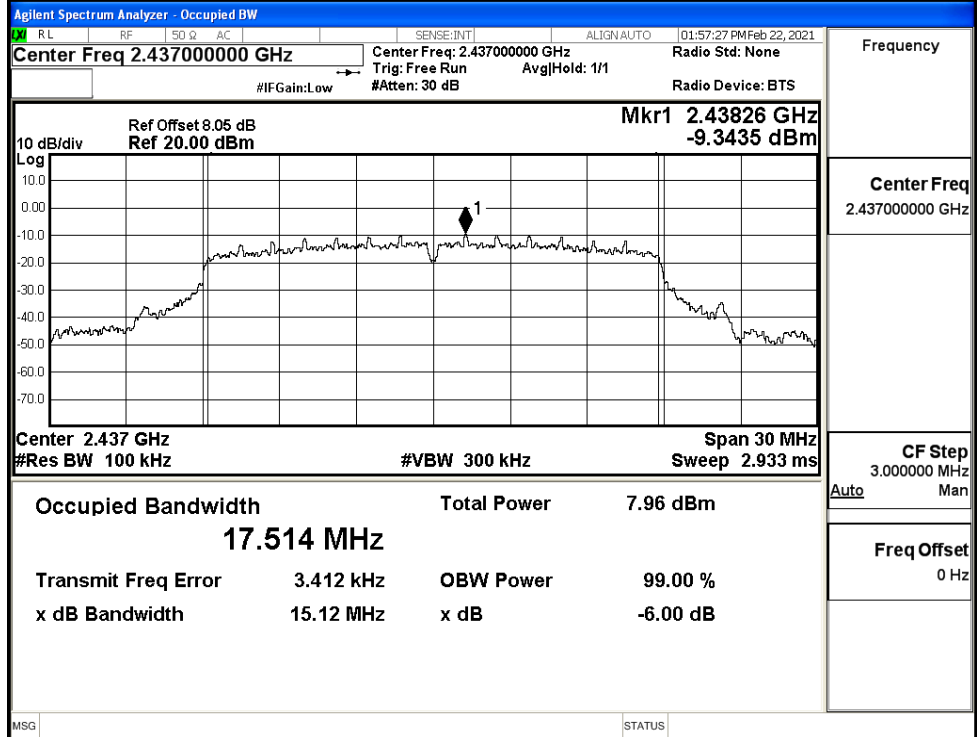
11G/HCH



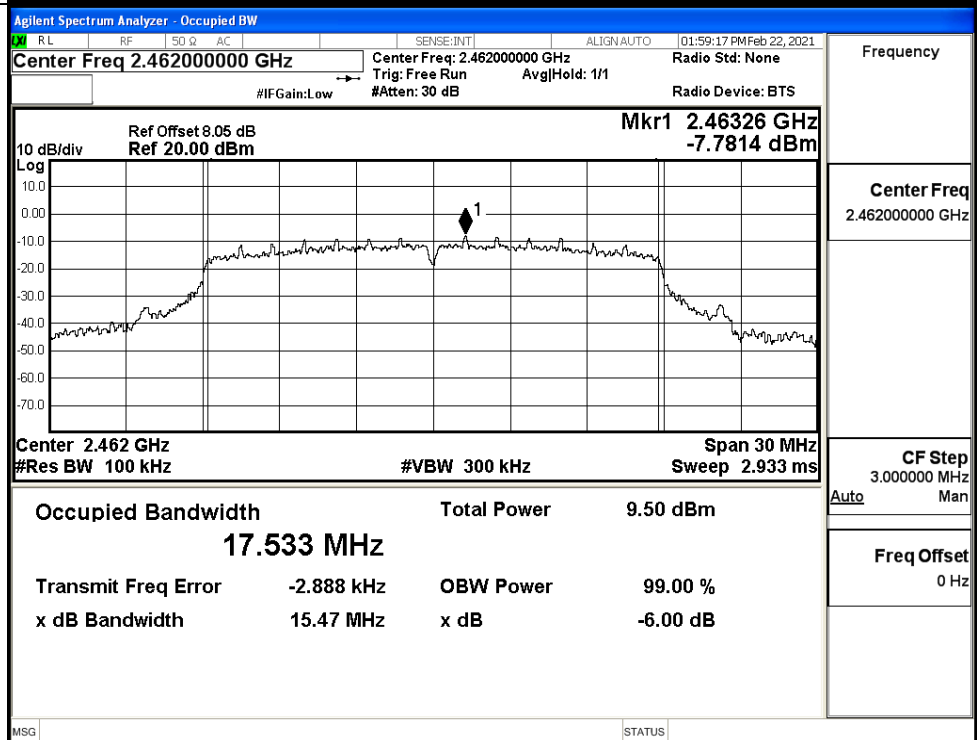
11N20SISO/LCH



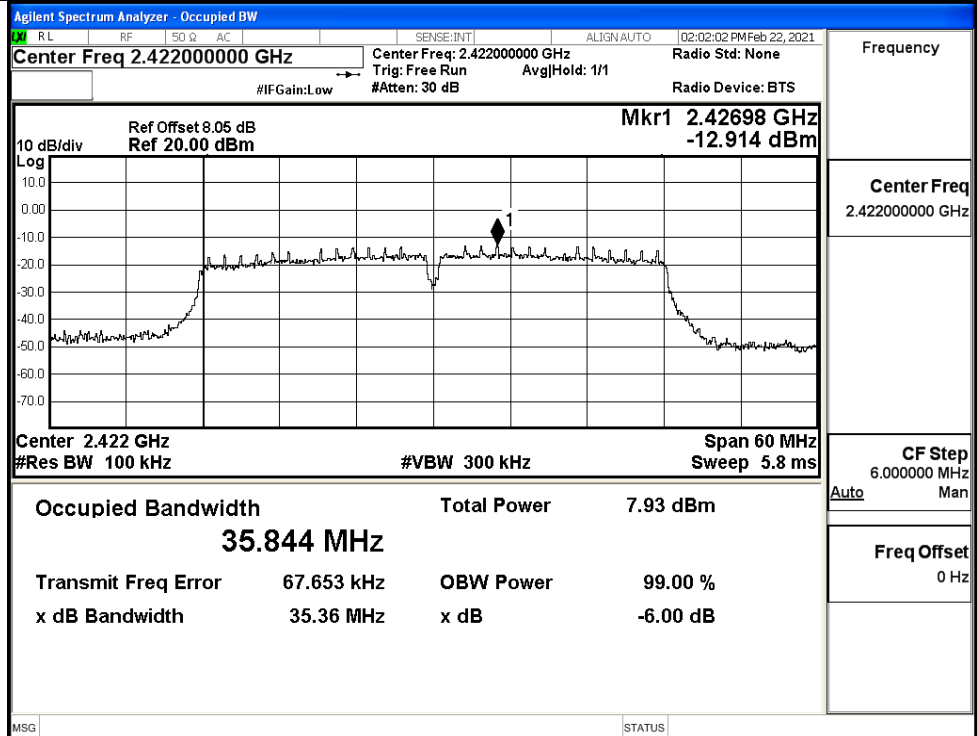
11N20SISO/MCH



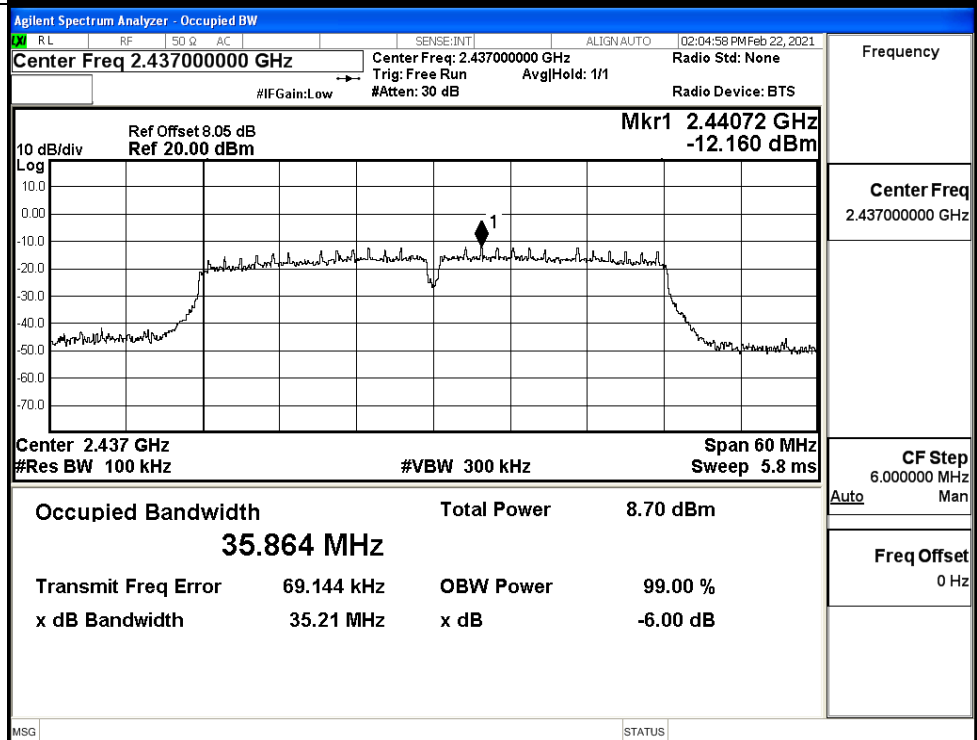
11N20SISO/HCH

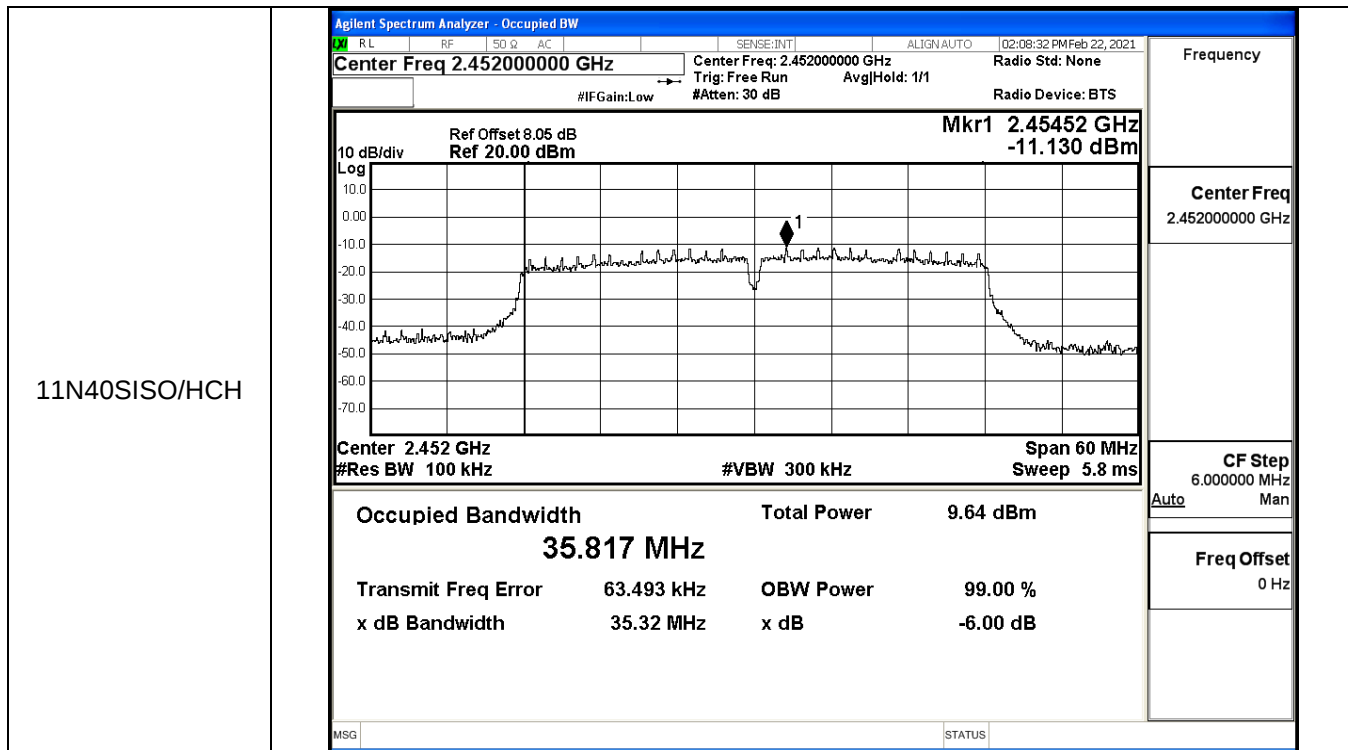


11N40SISO/LCH



11N40SISO/MCH



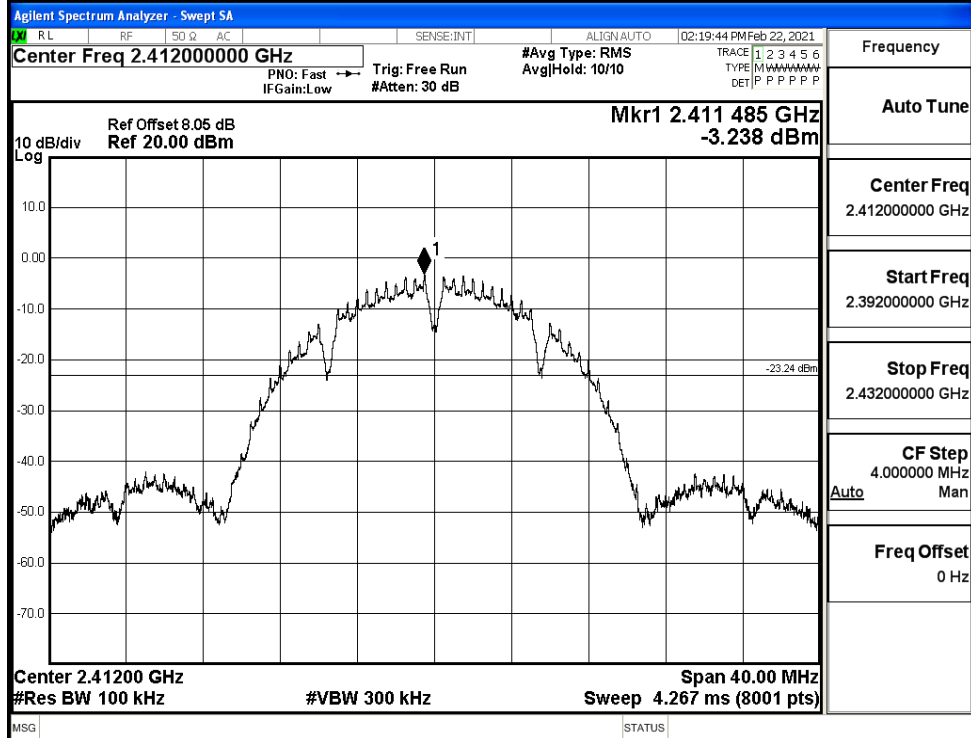


A.5 RF Conducted Spurious Emissions

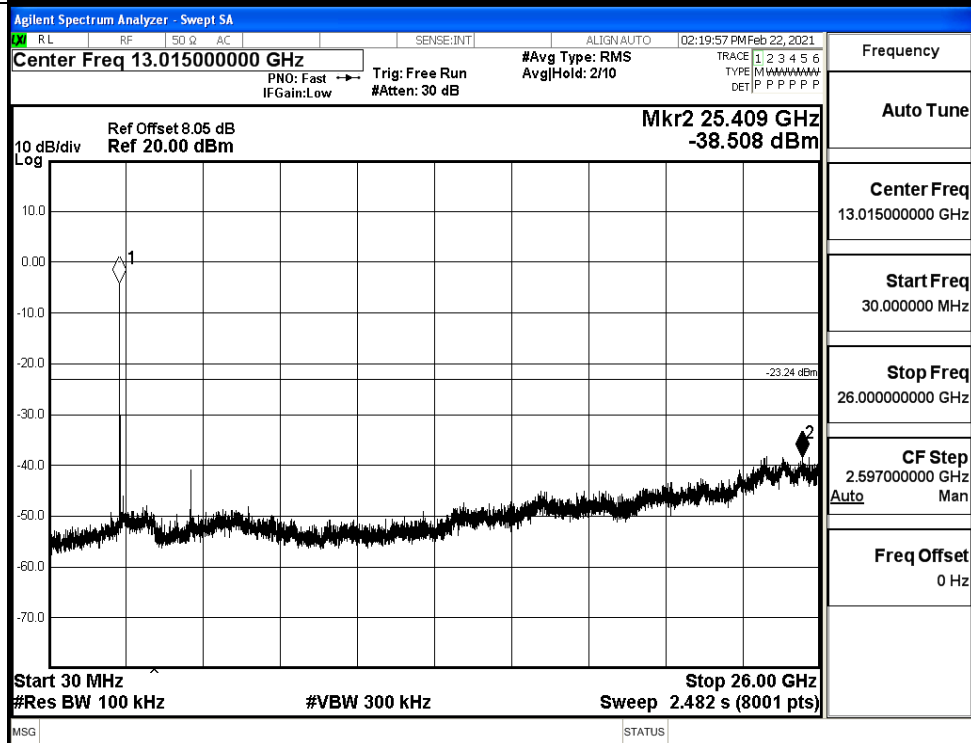
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.238	-38.508	-23.238	PASS
	MCH	-3.06	-36.701	-23.060	PASS
	HCH	-3.021	-37.179	-23.021	PASS
11G	LCH	-11.478	-37.211	-31.478	PASS
	MCH	-9.323	-37.847	-29.323	PASS
	HCH	-7.867	-36.374	-27.867	PASS
11N20 SISO	LCH	-10.859	-38.075	-30.859	PASS
	MCH	-9.853	-38.605	-29.853	PASS
	HCH	-8.157	-38.321	-28.157	PASS
11N40 SISO	LCH	-12.968	-38.210	-32.968	PASS
	MCH	-12.447	-38.306	-32.447	PASS
	HCH	-11.177	-37.964	-31.177	PASS

11B LCH Graphs

Pref/11B/LCH

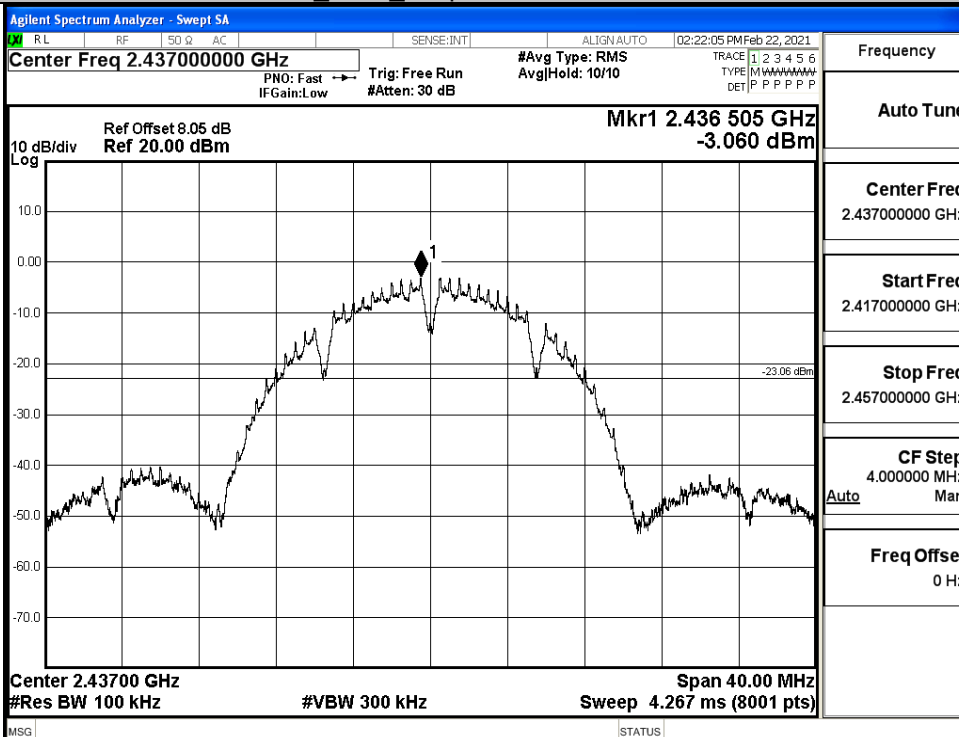


Puw/11B/LCH

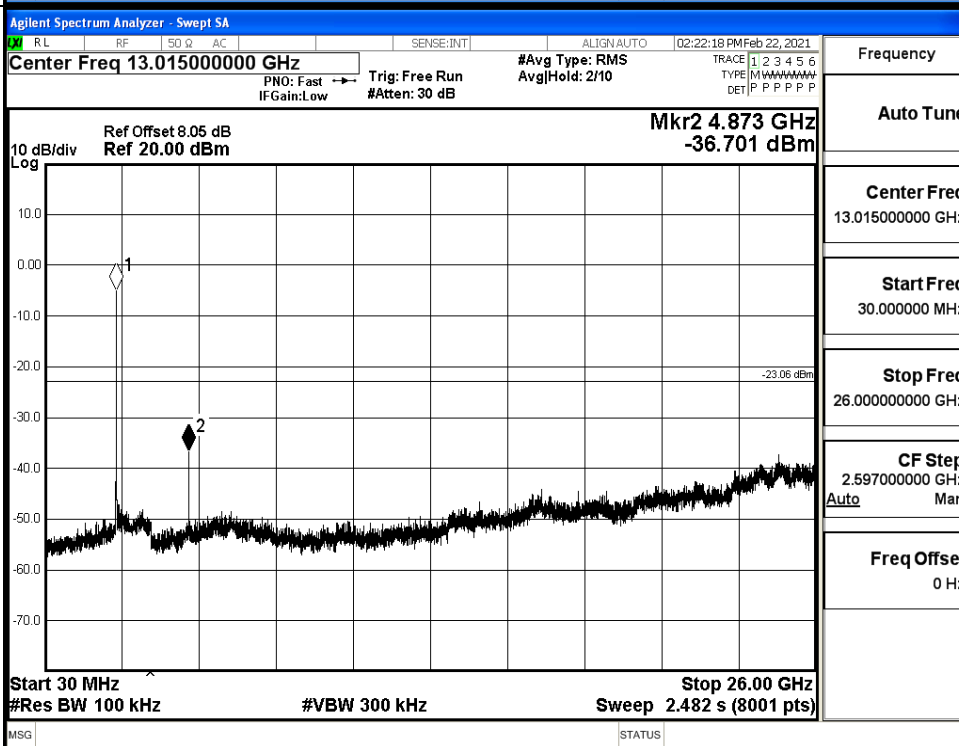


11B MCH Graphs

Pref/11B/MCH

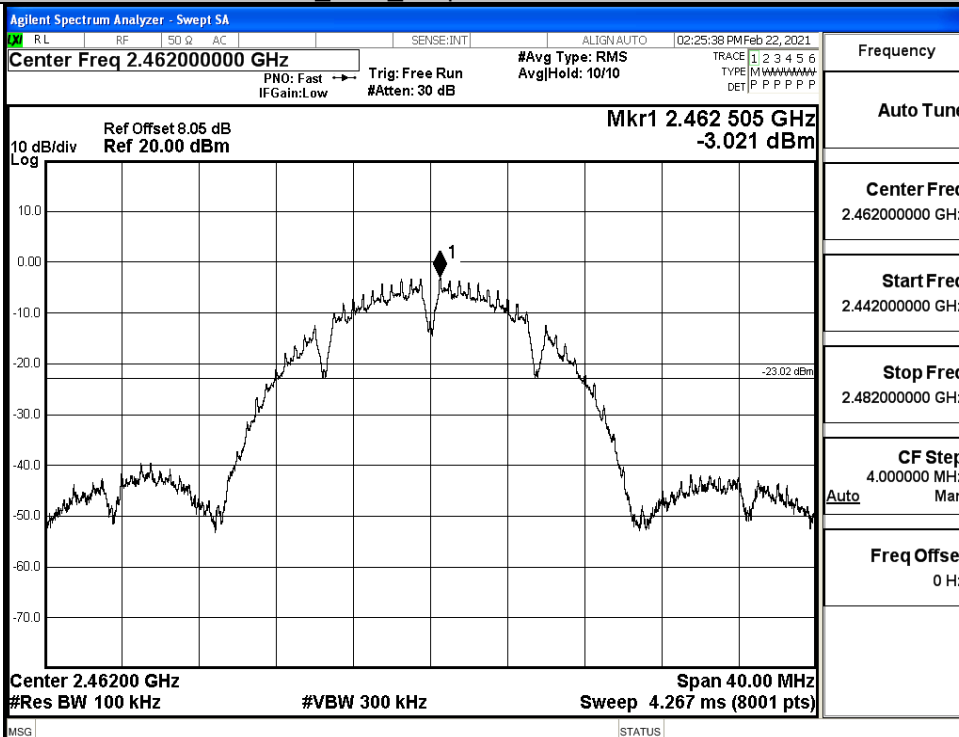


Puw/11B/MCH

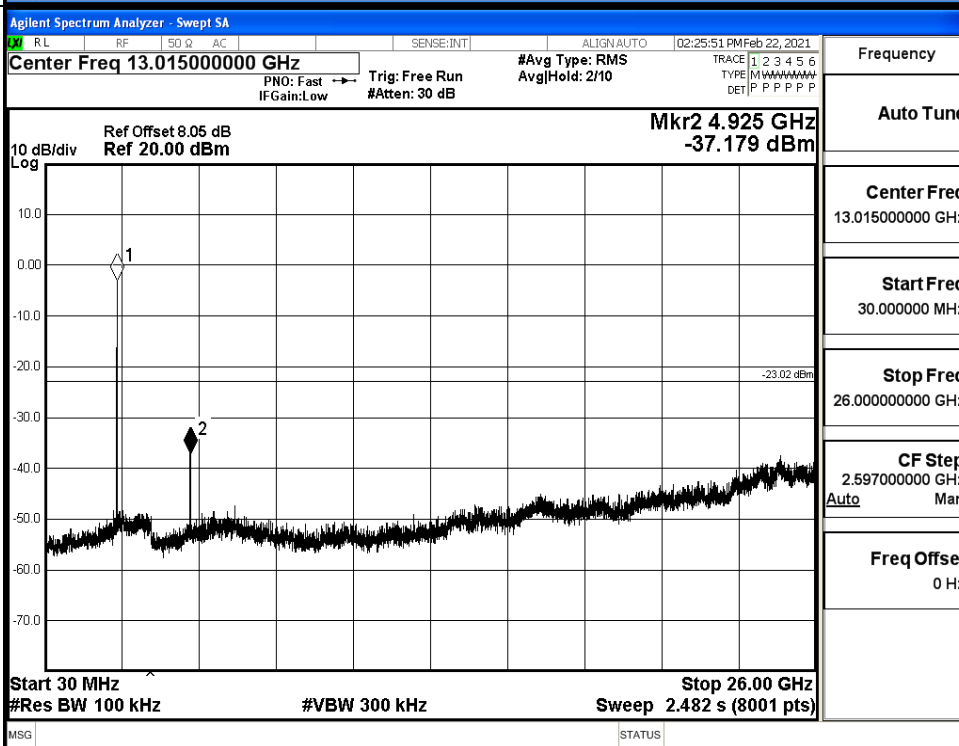


11B HCH Graphs

Pref/11B/HCH

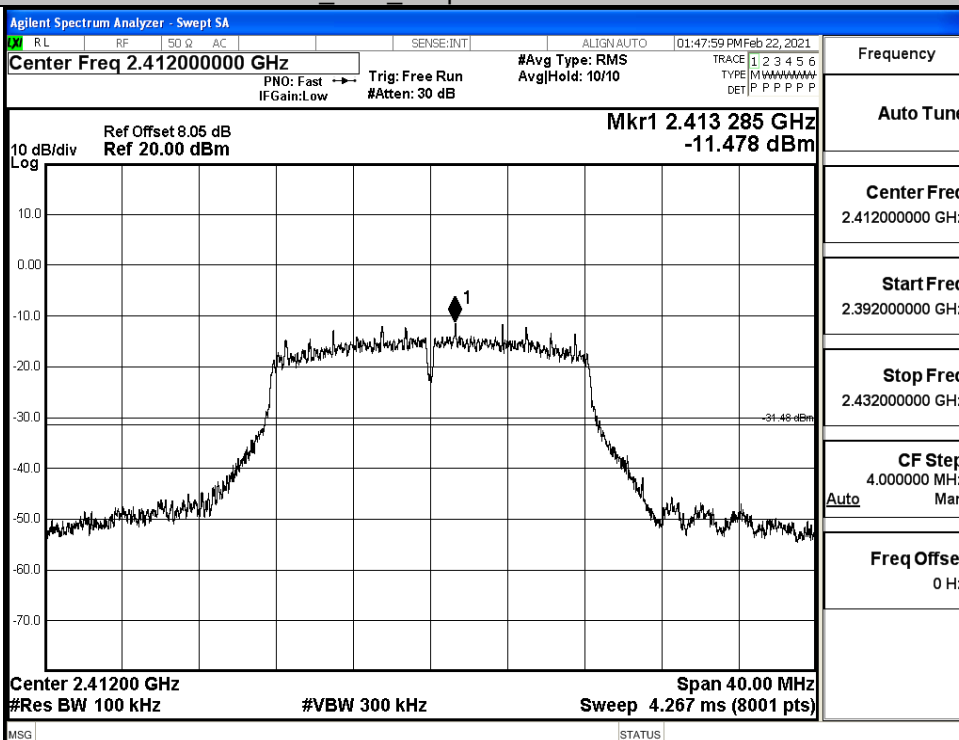


Puw/11B/HCH

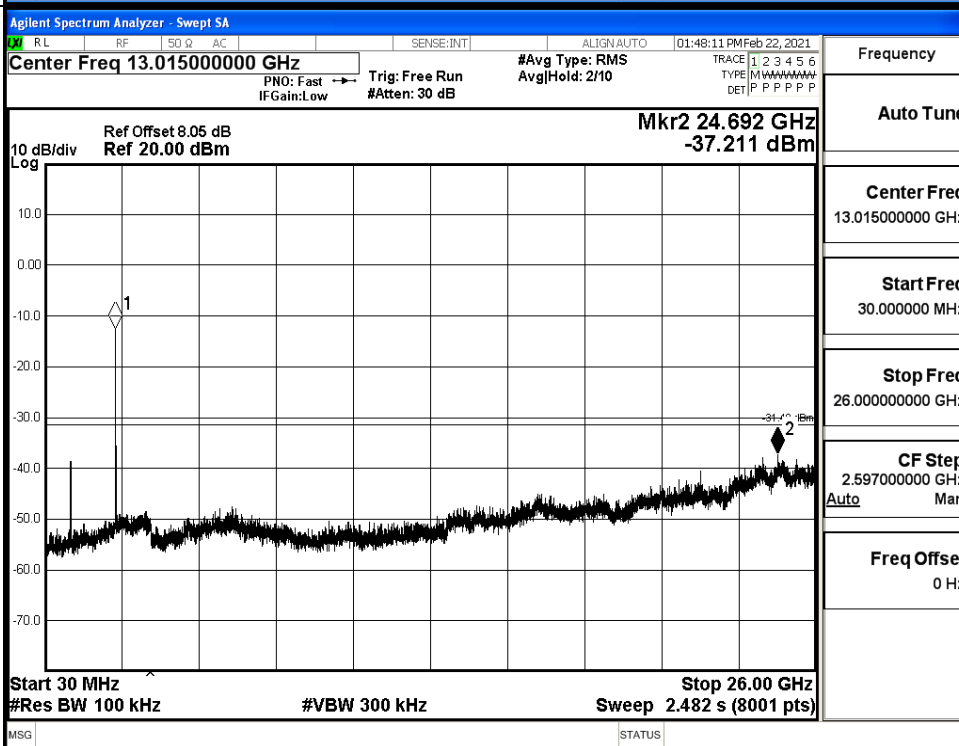


11G LCH Graphs

Pref/11G/LCH

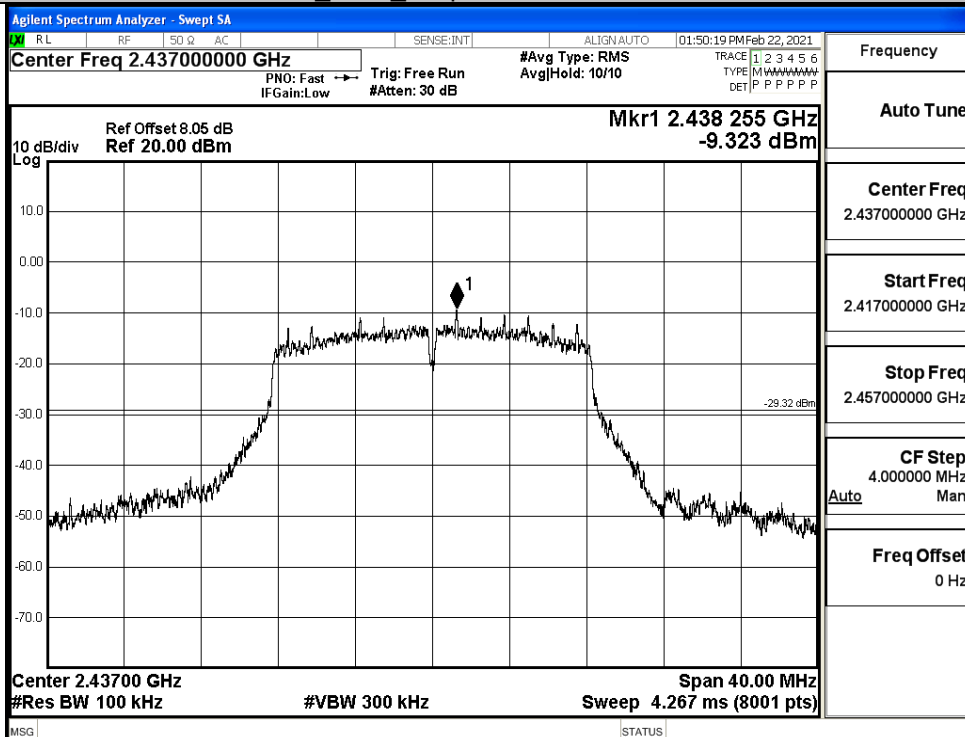


Puw/11G/LCH

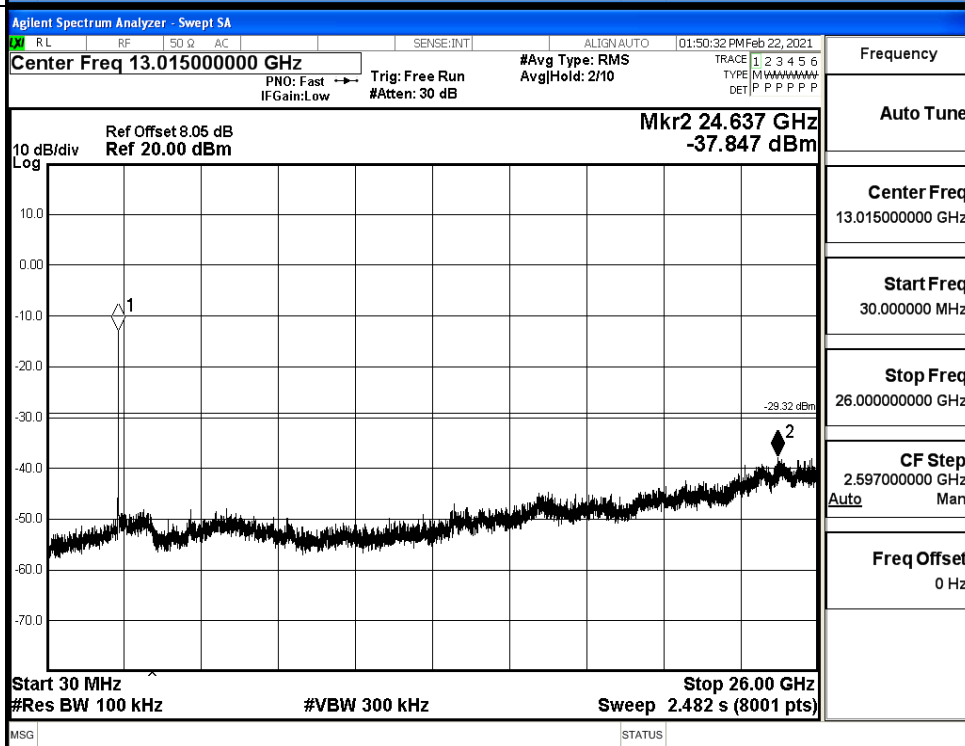


11G MCH Graphs

Pref/11G/MCH

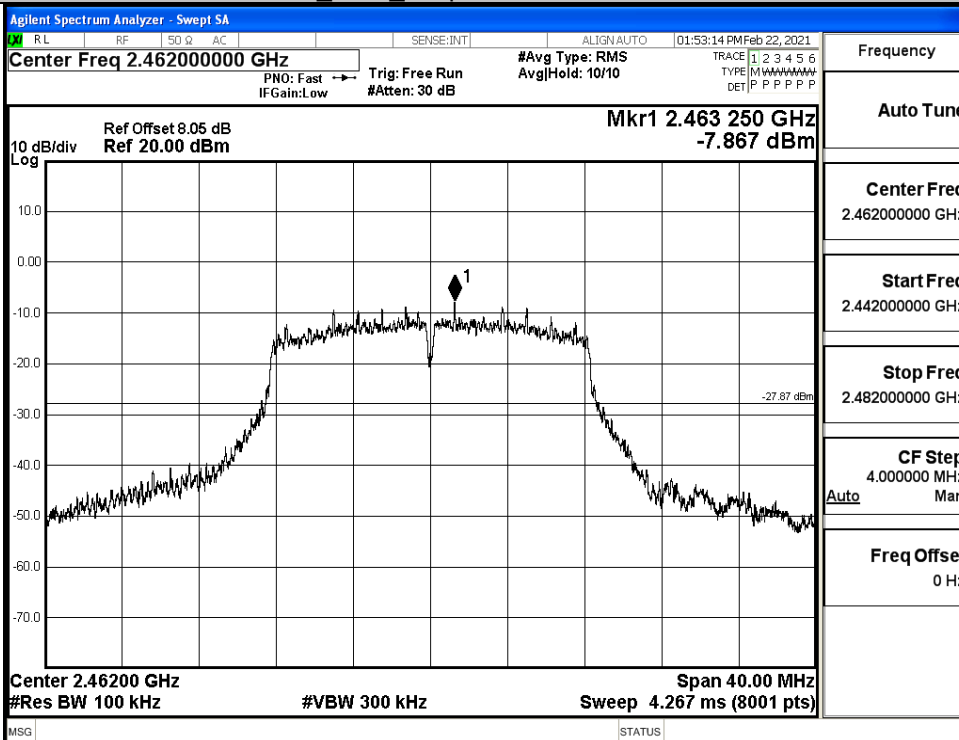


Puw/11G/MCH

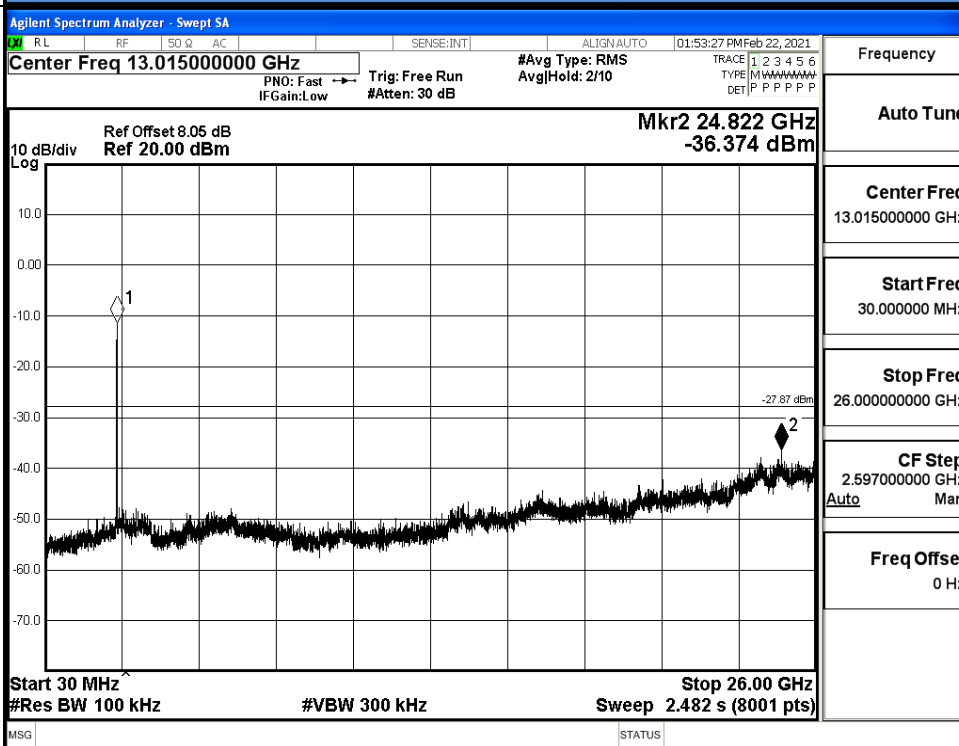


11G HCH Graphs

Pref/11G/HCH

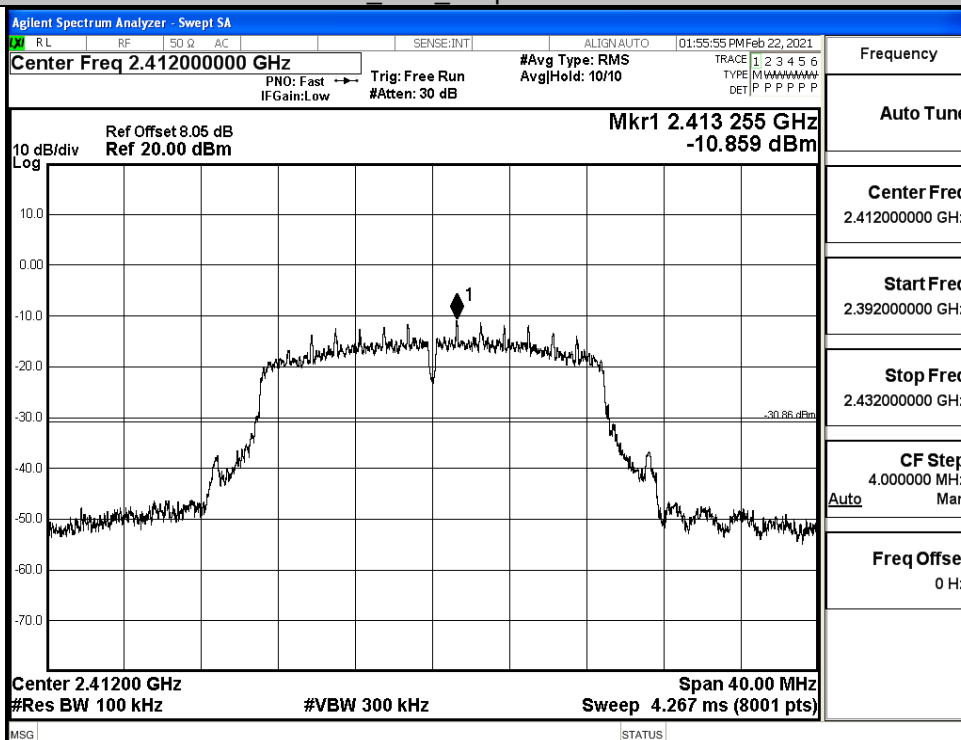


Puw/11G/HCH

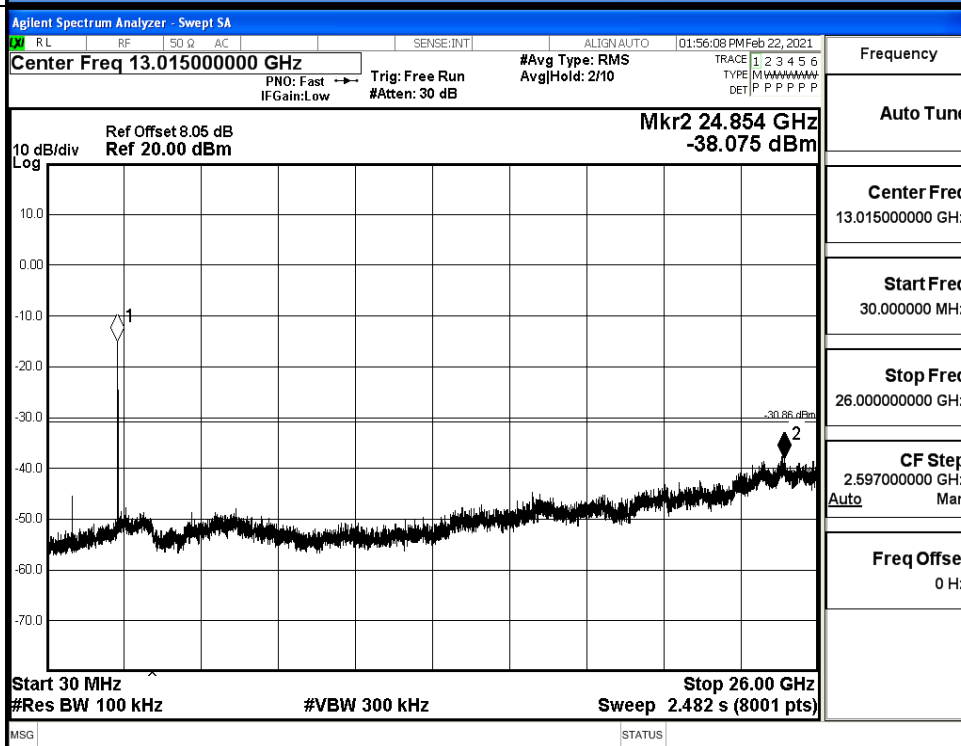


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

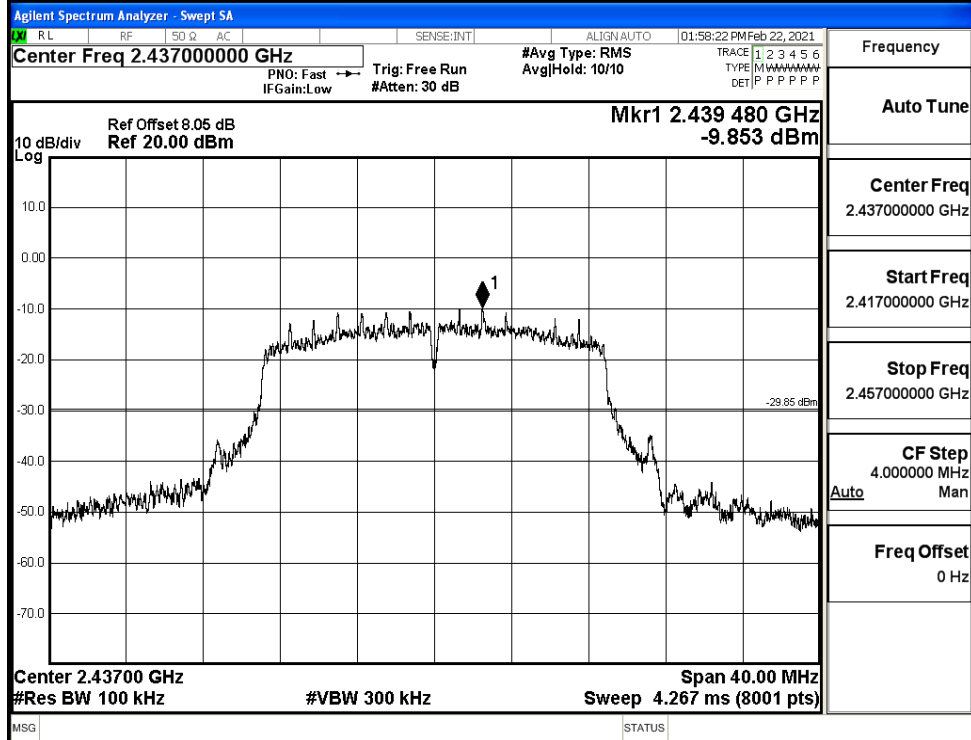


Puw/11N20
SISO/LCH

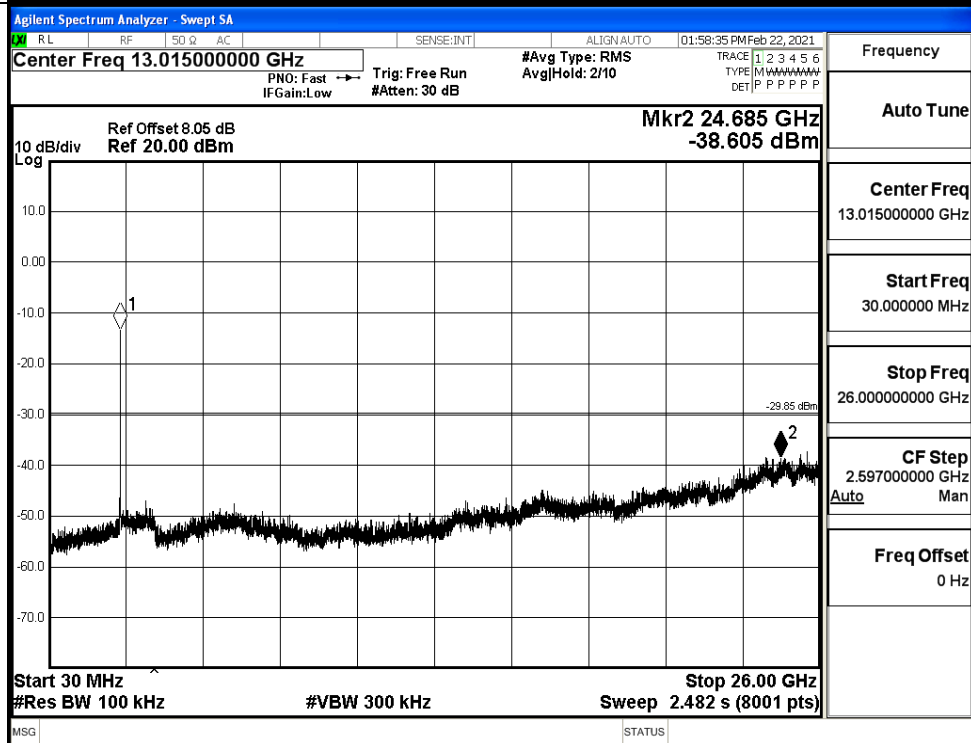


11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH

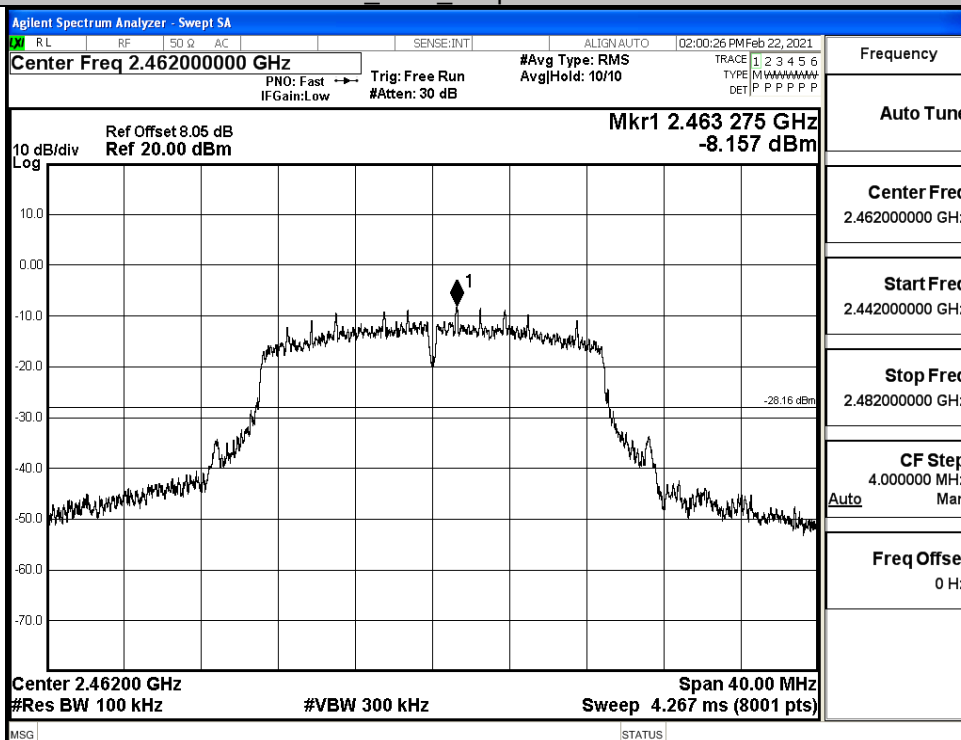


Puw/11N20
SISO/MCH

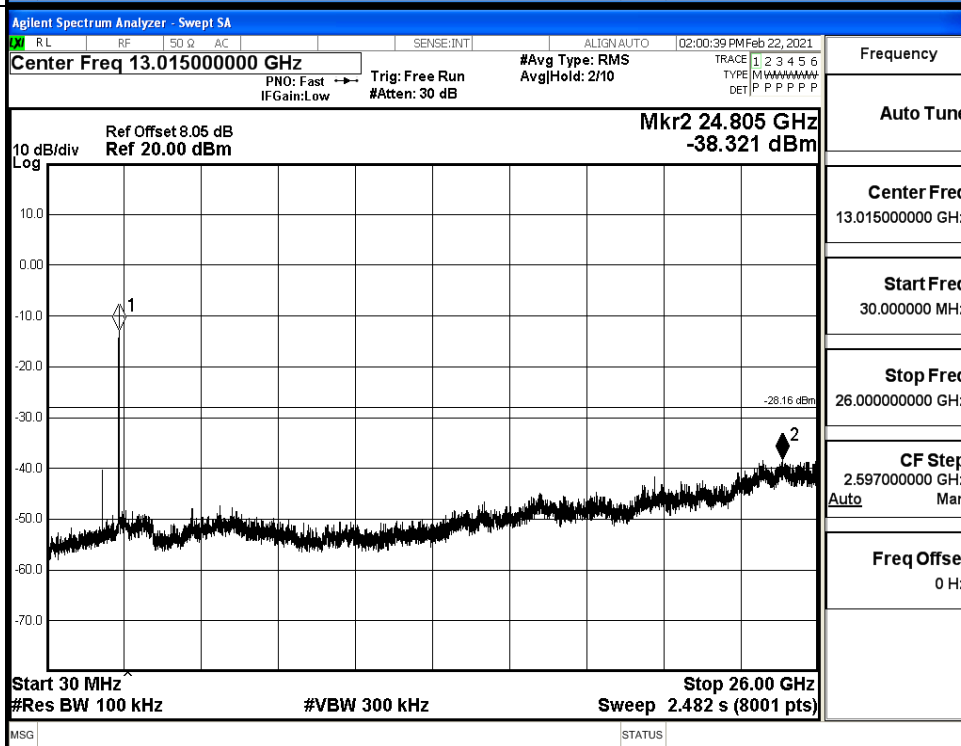


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH

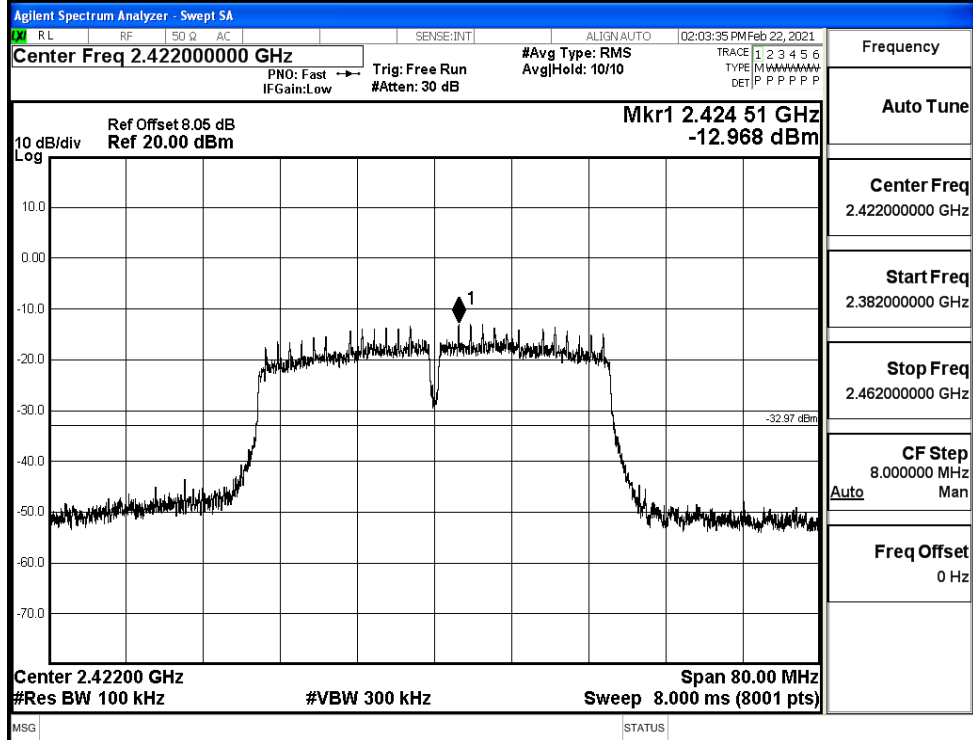


Puw/11N20
SISO/HCH

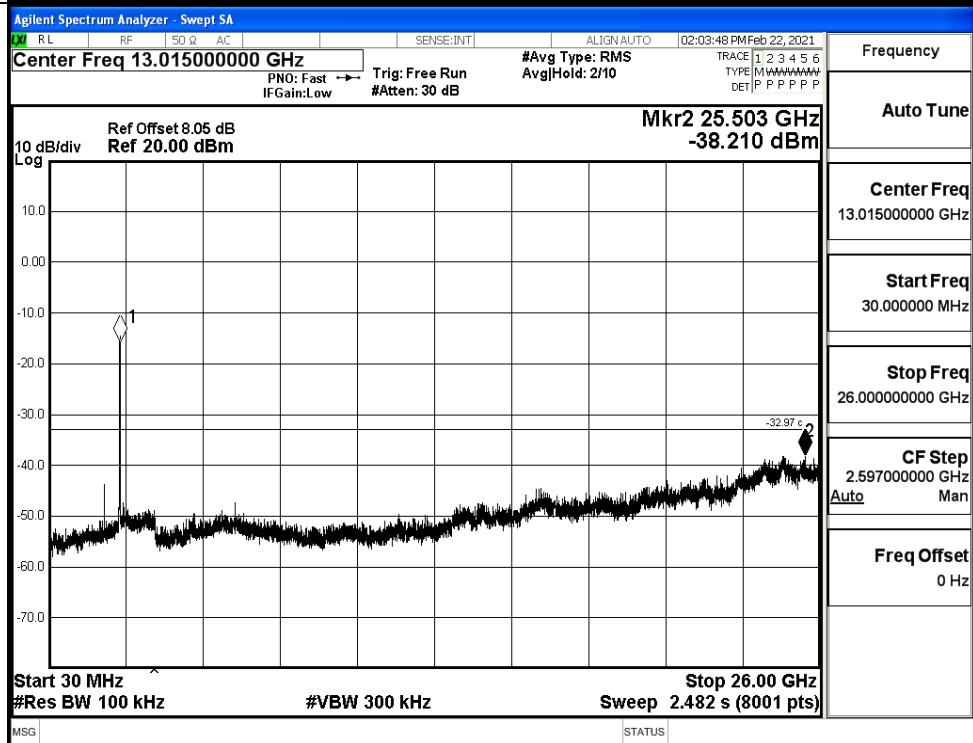


11N40SISO LCH Graphs

Pref/11N40
SISO/LCH

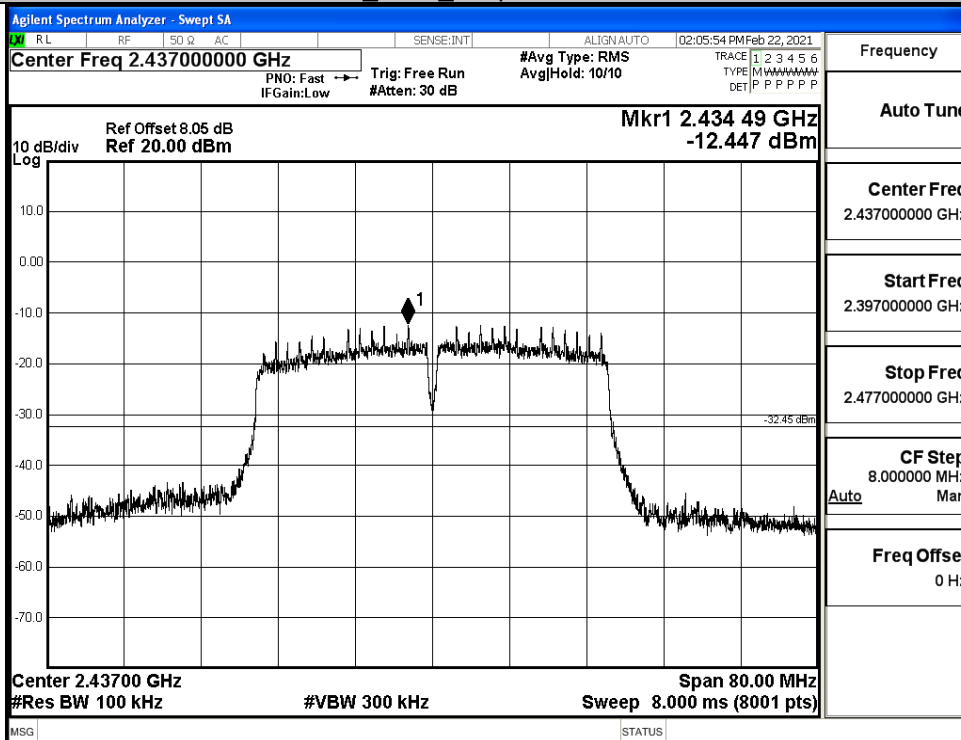


Puw/11N40
SISO/LCH

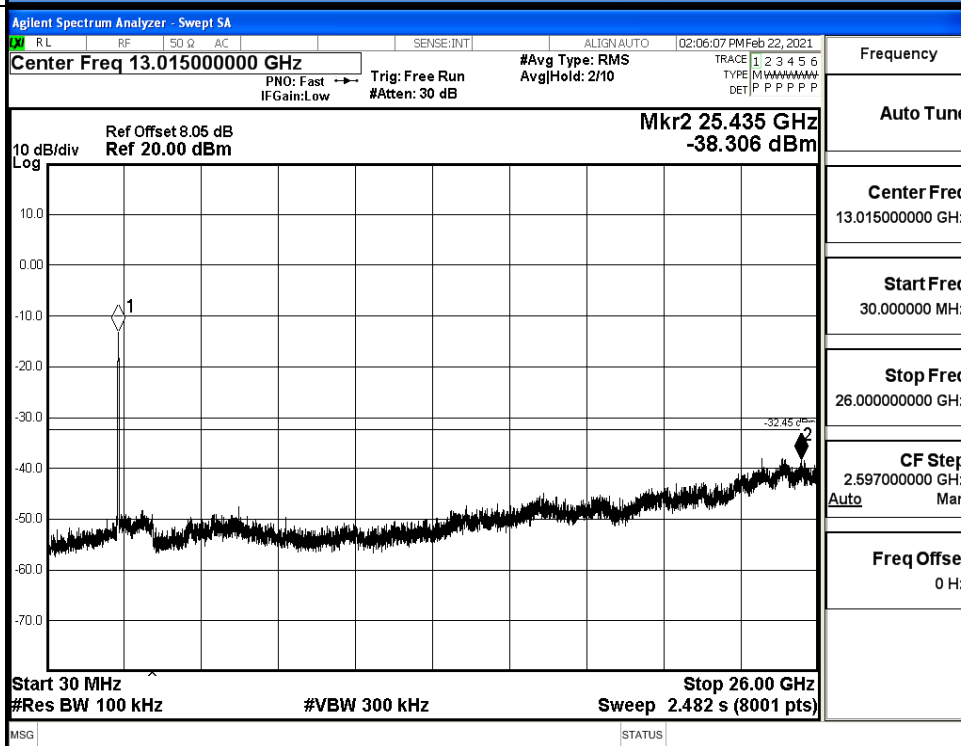


11N40SISO_MCH_Graphs

Pref/11N40
SISO/MCH

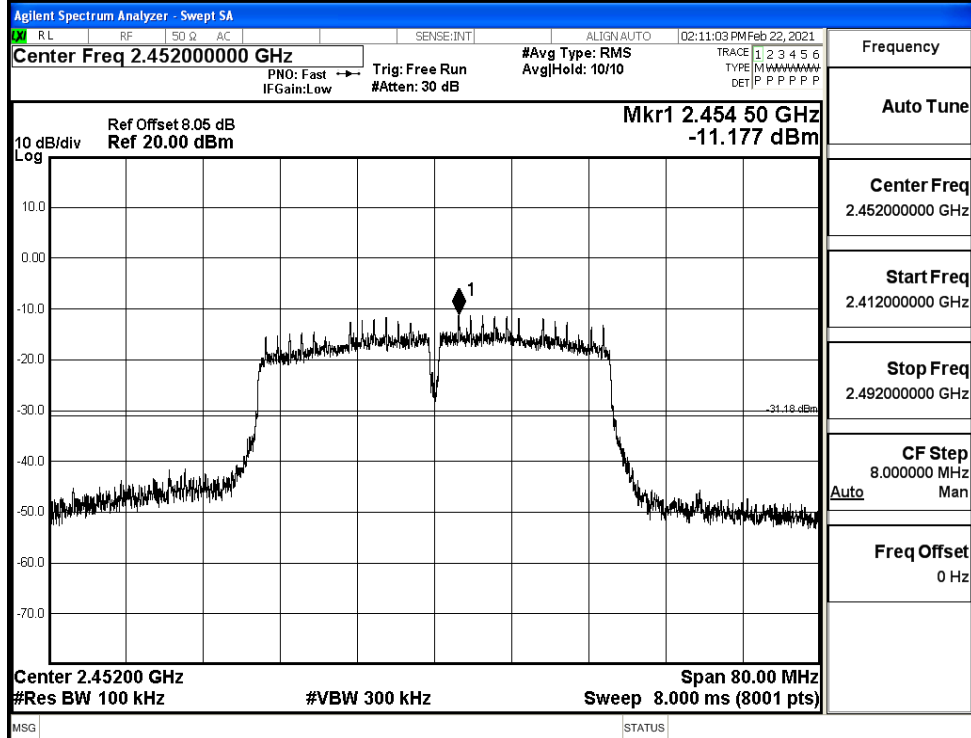


Puw/11N40
SISO/MCH

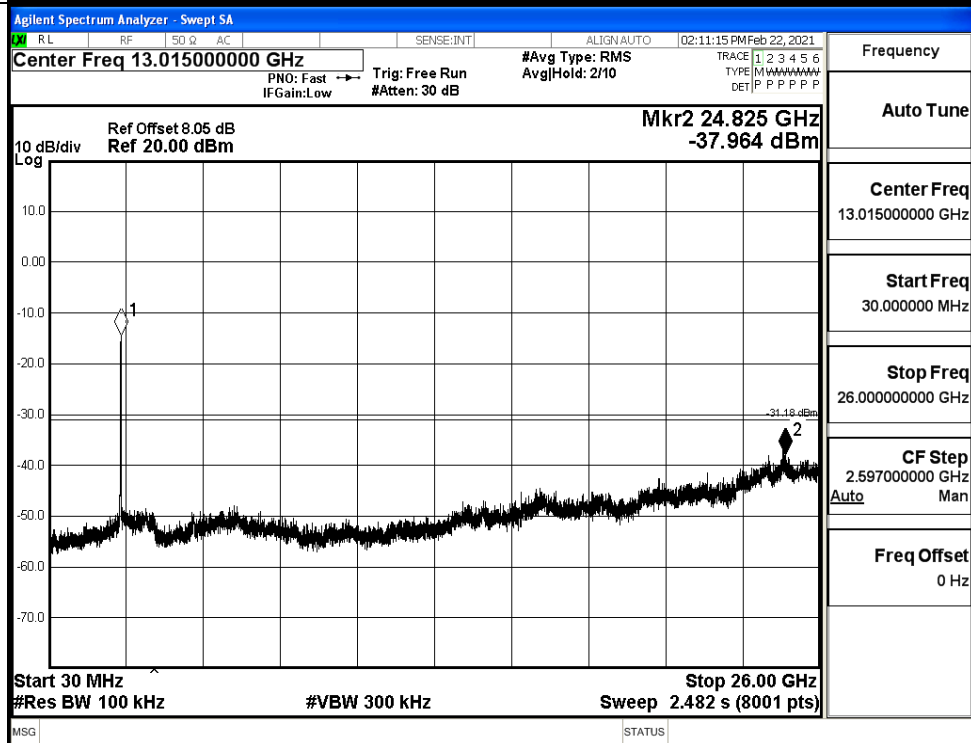


11N40SISO HCH Graphs

Pref/11N40
SISO/HCH

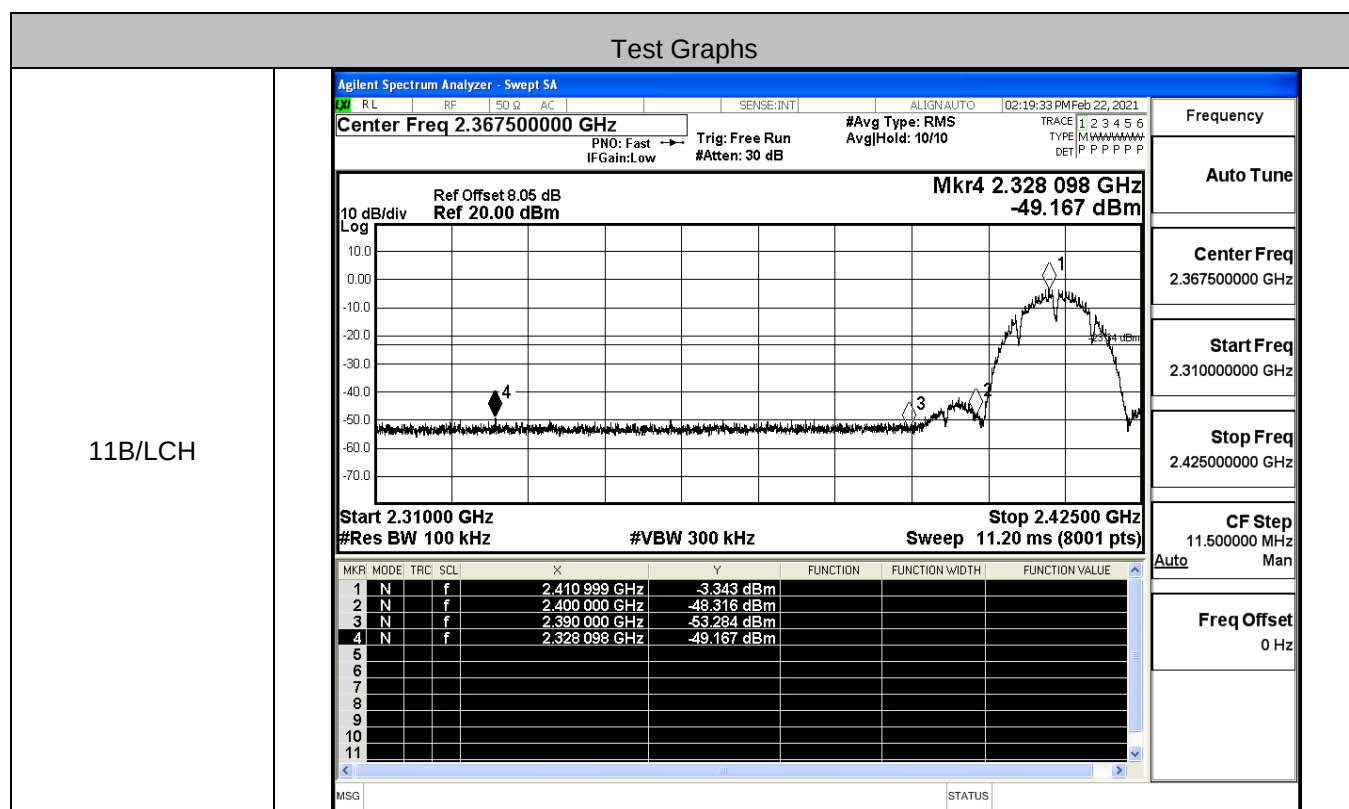


Puw/11N40
SISO/HCH

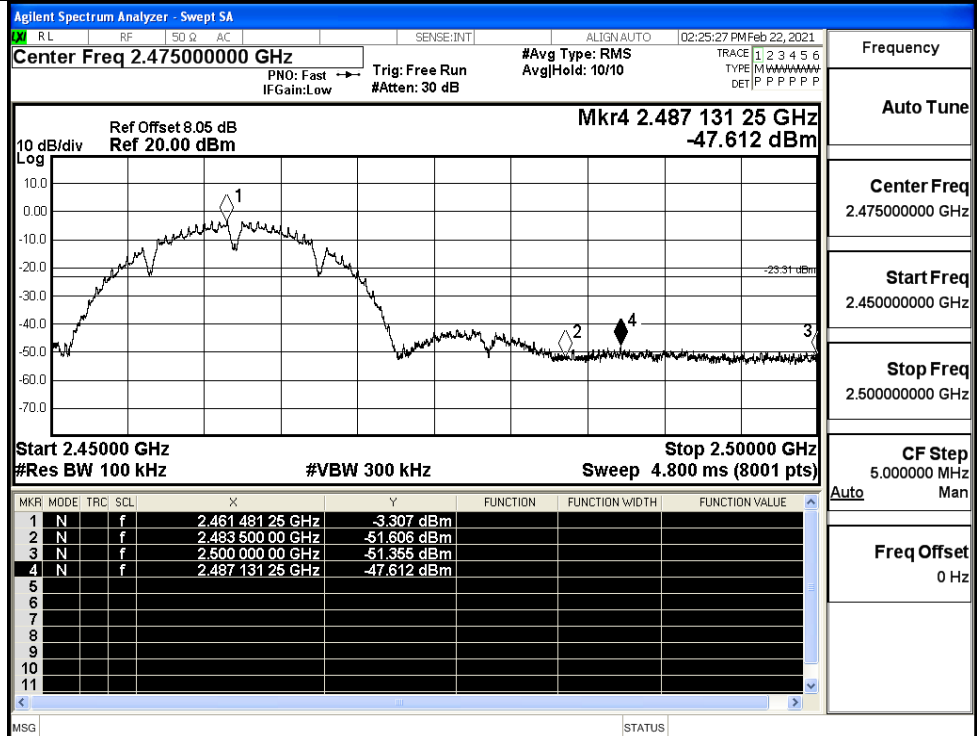


A.6 Band-edge for RF Conducted Emissions

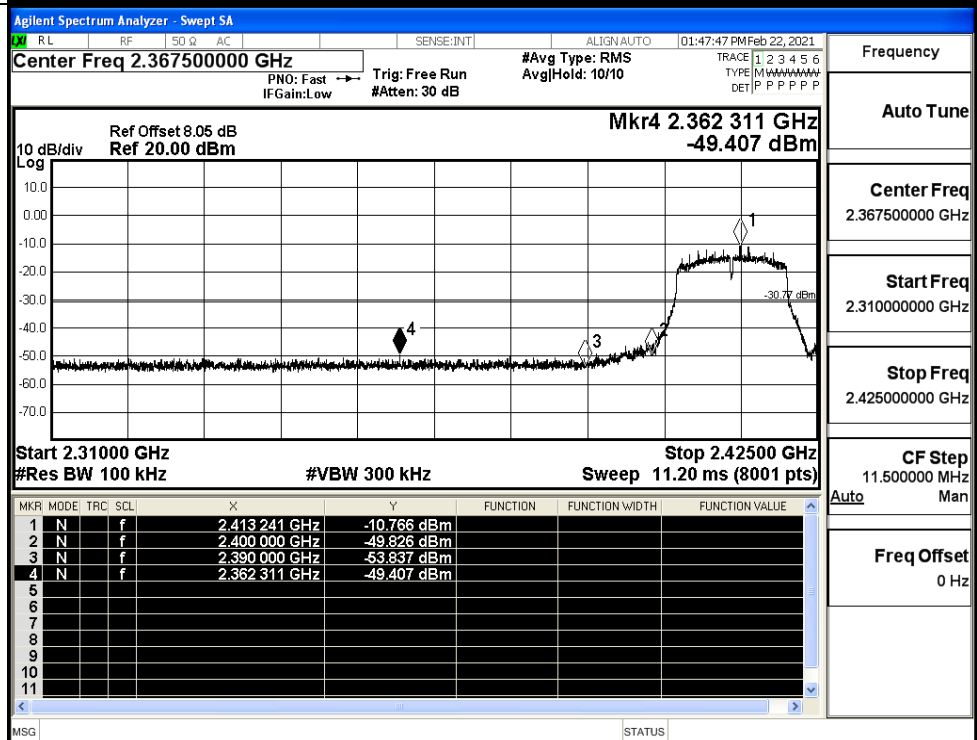
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-3.343	-49.167	-23.34	PASS
	HCH	-3.307	-47.612	-23.31	PASS
11G	LCH	-10.766	-49.407	-30.77	PASS
	HCH	-8.579	-49.388	-28.58	PASS
11N20SISO	LCH	-11.007	-49.127	-31.01	PASS
	HCH	-7.826	-48.810	-27.83	PASS
11N40SISO	LCH	-13.037	-44.891	-33.04	PASS
	HCH	-11.348	-46.496	-31.35	PASS



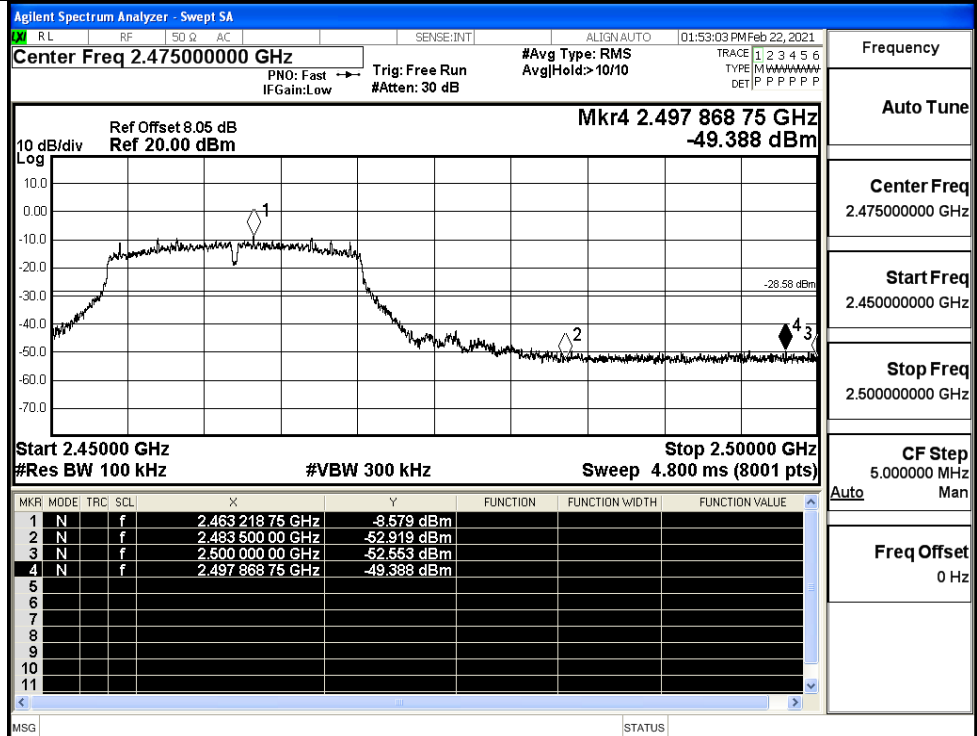
11B/HCH



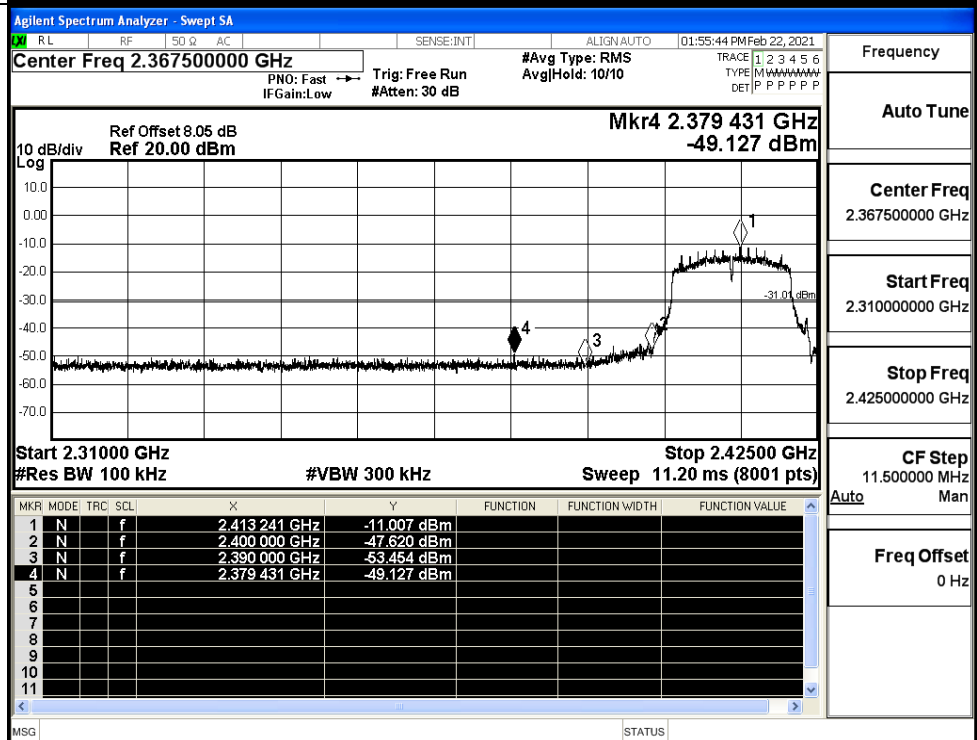
11G/LCH



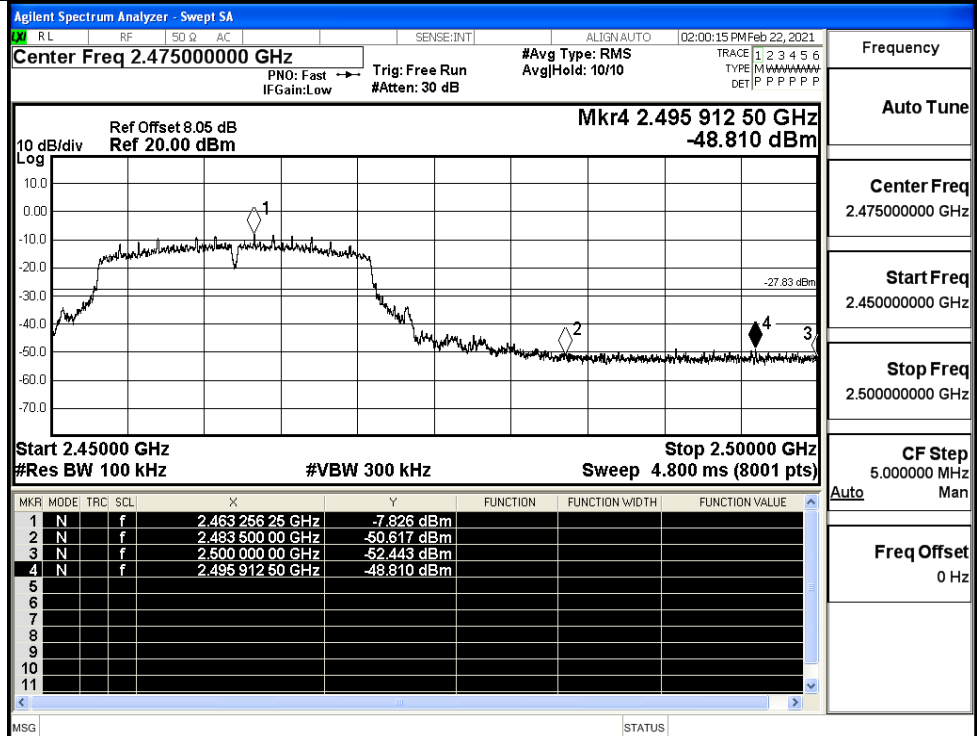
11G/HCH



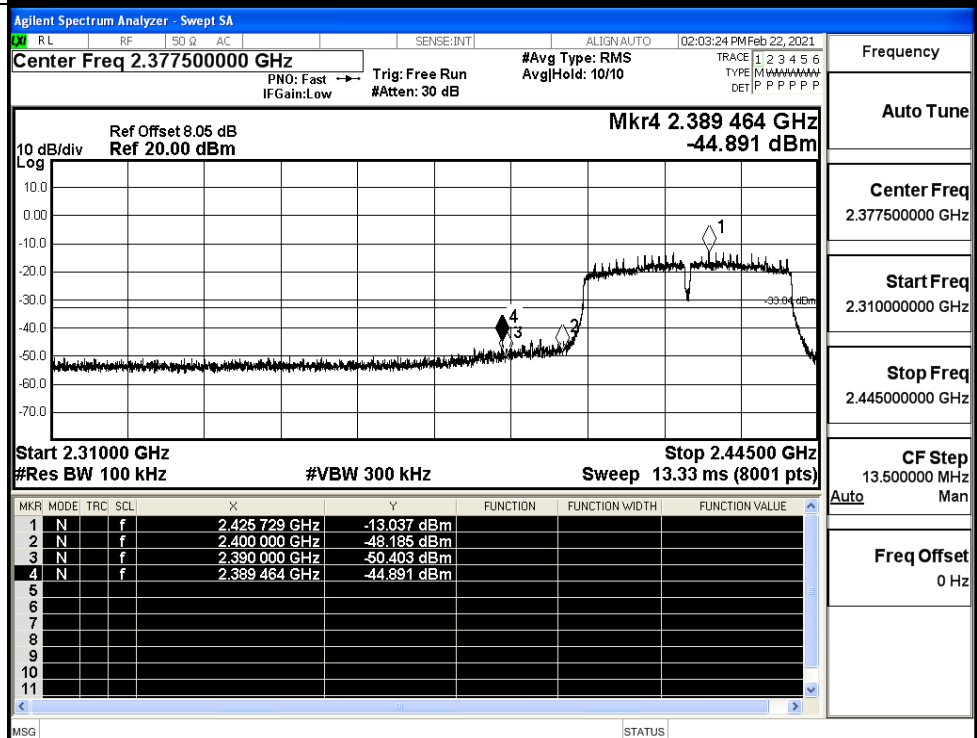
11N20SISO/LCH



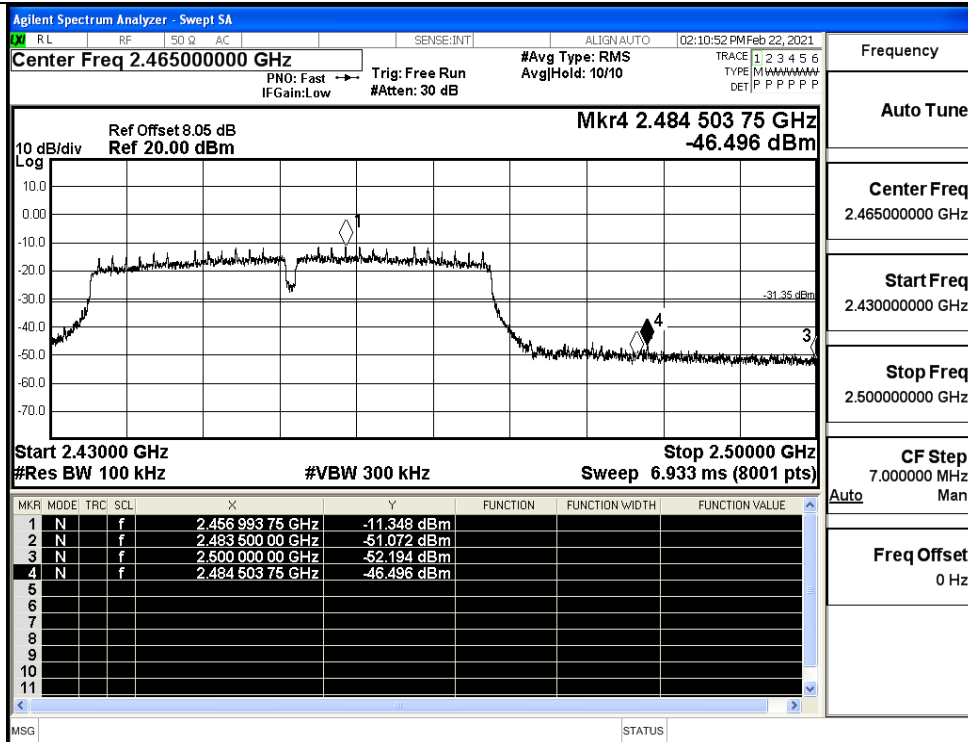
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH



Frequency

Auto Tune

Center Freq
2.465000000 GHz

Start Freq
2.430000000 GHz

Stop Freq
2.500000000 GHz

CF Step
7.000000 MHz

Auto Man

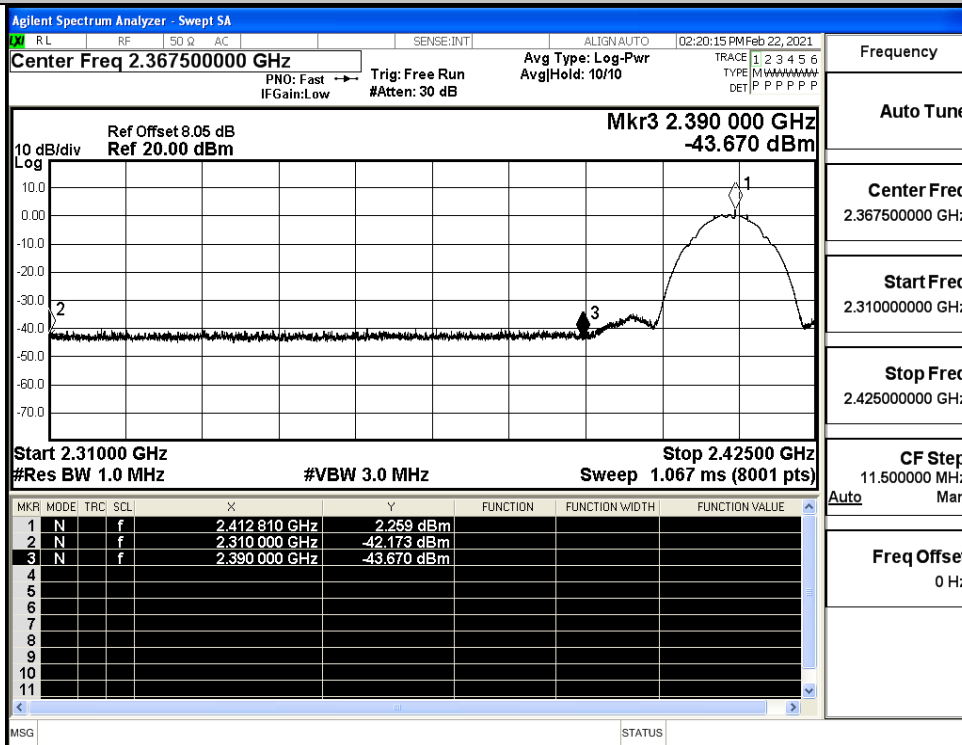
Freq Offset
0 Hz

A.7 Restrict-band band-edge measurements

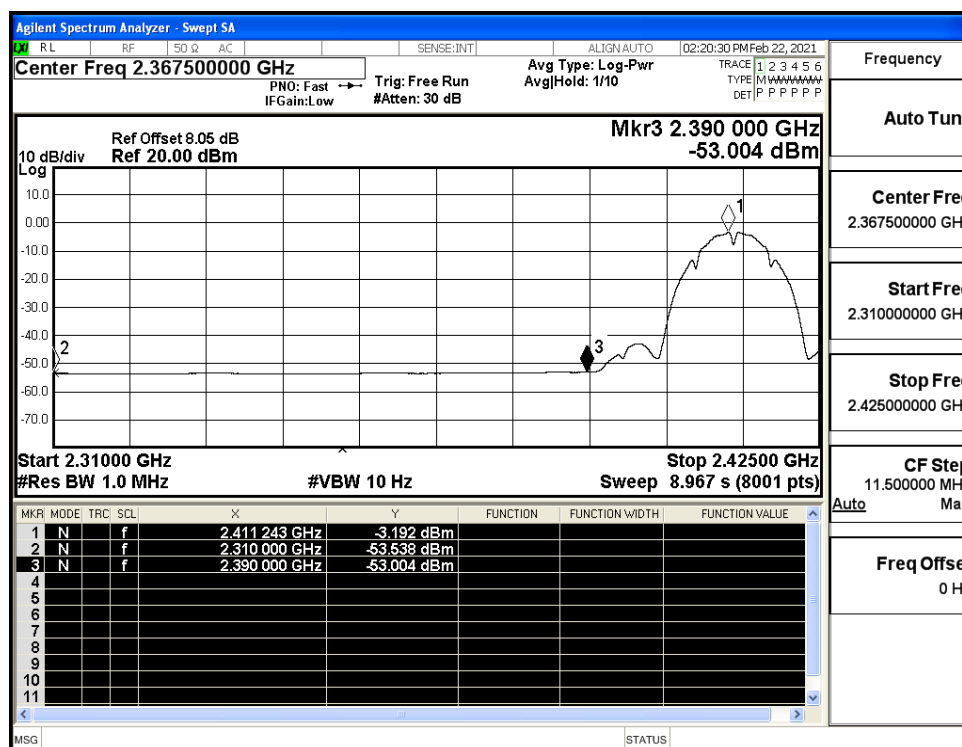
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-42.17	2.0	0	55.09	PEAK	74	PASS
	2412	Ant1	2310.0	-53.54	2.0	0	43.72	AV	54	PASS
	2412	Ant1	2390.0	-43.67	2.0	0	53.59	PEAK	74	PASS
	2412	Ant1	2390.0	-53.00	2.0	0	44.26	AV	54	PASS
	2462	Ant1	2483.5	-42.36	2.0	0	54.9	PEAK	74	PASS
	2462	Ant1	2483.5	-52.06	2.0	0	45.2	AV	54	PASS
	2462	Ant1	2500.0	-41.79	2.0	0	55.47	PEAK	74	PASS
	2462	Ant1	2500.0	-52.53	2.0	0	44.73	AV	54	PASS
11G	2412	Ant1	2310.0	-42.99	2.0	0	54.27	PEAK	74	PASS
	2412	Ant1	2310.0	-53.70	2.0	0	43.56	AV	54	PASS
	2412	Ant1	2390.0	-41.99	2.0	0	55.27	PEAK	74	PASS
	2412	Ant1	2390.0	-53.01	2.0	0	44.25	AV	54	PASS
	2462	Ant1	2483.5	-40.98	2.0	0	56.28	PEAK	74	PASS
	2462	Ant1	2483.5	-52.21	2.0	0	45.05	AV	54	PASS
	2462	Ant1	2500.0	-42.32	2.0	0	54.94	PEAK	74	PASS
	2462	Ant1	2500.0	-52.49	2.0	0	44.77	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.90	2.0	0	54.36	PEAK	74	PASS
	2412	Ant1	2310.0	-53.67	2.0	0	43.59	AV	54	PASS
	2412	Ant1	2390.0	-40.18	2.0	0	57.08	PEAK	74	PASS
	2412	Ant1	2390.0	-52.84	2.0	0	44.42	AV	54	PASS
	2462	Ant1	2483.5	-41.66	2.0	0	55.6	PEAK	74	PASS
	2462	Ant1	2483.5	-52.07	2.0	0	45.19	AV	54	PASS
	2462	Ant1	2500.0	-42.99	2.0	0	54.27	PEAK	74	PASS
	2462	Ant1	2500.0	-52.55	2.0	0	44.71	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.73	2.0	0	53.53	PEAK	74	PASS
	2422	Ant1	2310.0	-53.69	2.0	0	43.57	AV	54	PASS

	2422	Ant1	2390.0	-39.46	2.0	0	57.8	PEAK	74	PASS
	2422	Ant1	2390.0	-49.84	2.0	0	47.42	AV	54	PASS
	2452	Ant1	2483.5	-39.72	2.0	0	57.54	PEAK	74	PASS
	2452	Ant1	2483.5	-50.62	2.0	0	46.64	AV	54	PASS
	2452	Ant1	2500.0	-42.62	2.0	0	54.64	PEAK	74	PASS
	2452	Ant1	2500.0	-52.05	2.0	0	45.21	AV	54	PASS

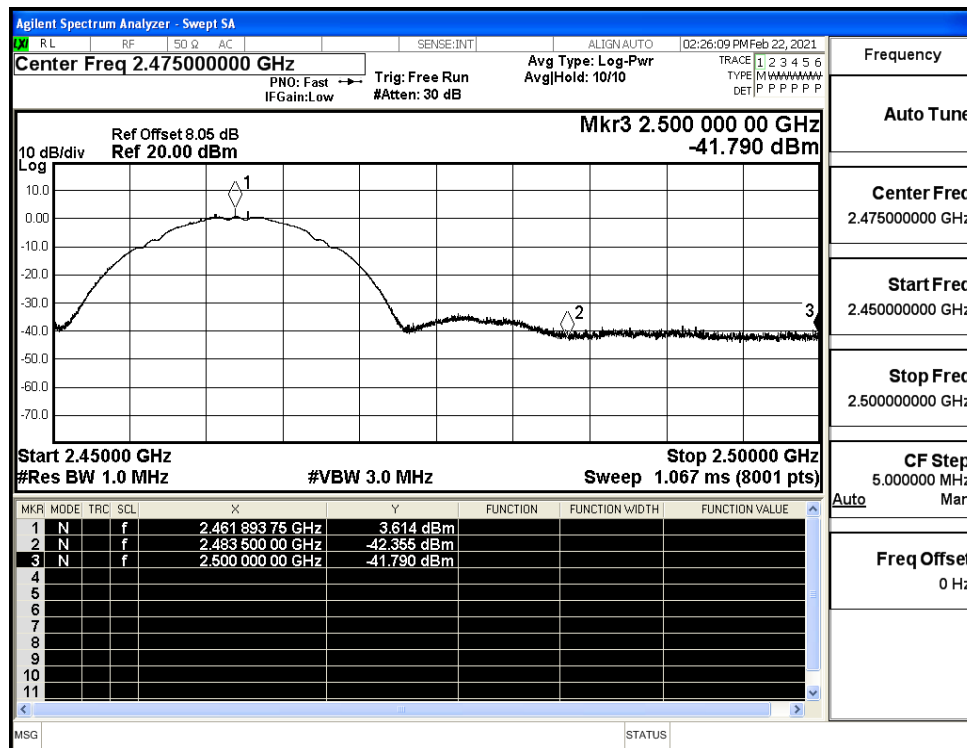
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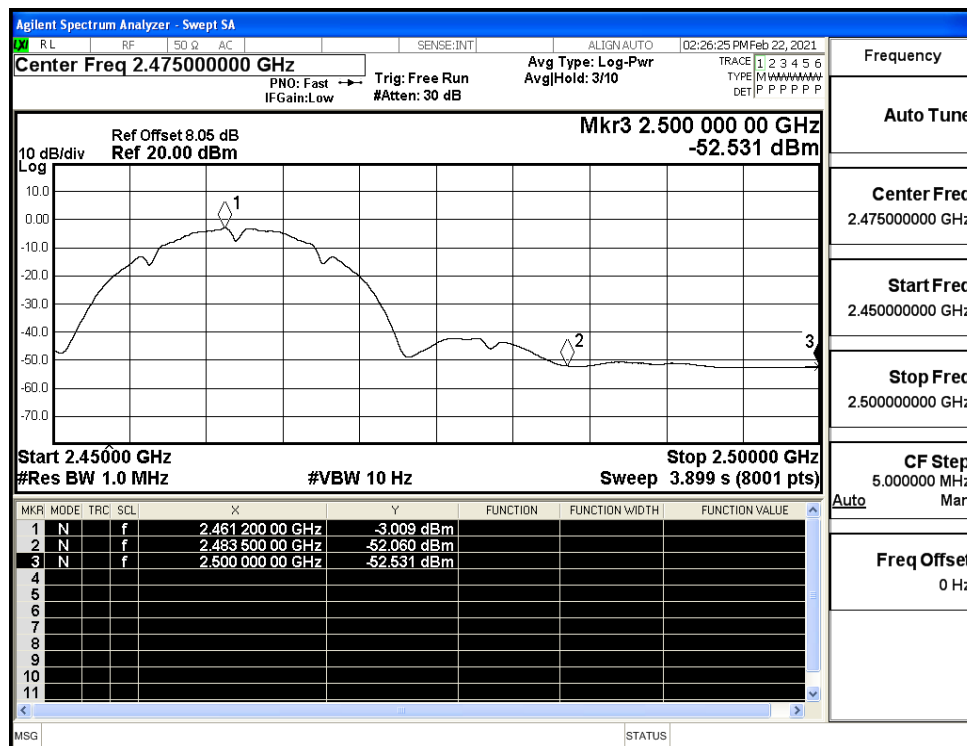
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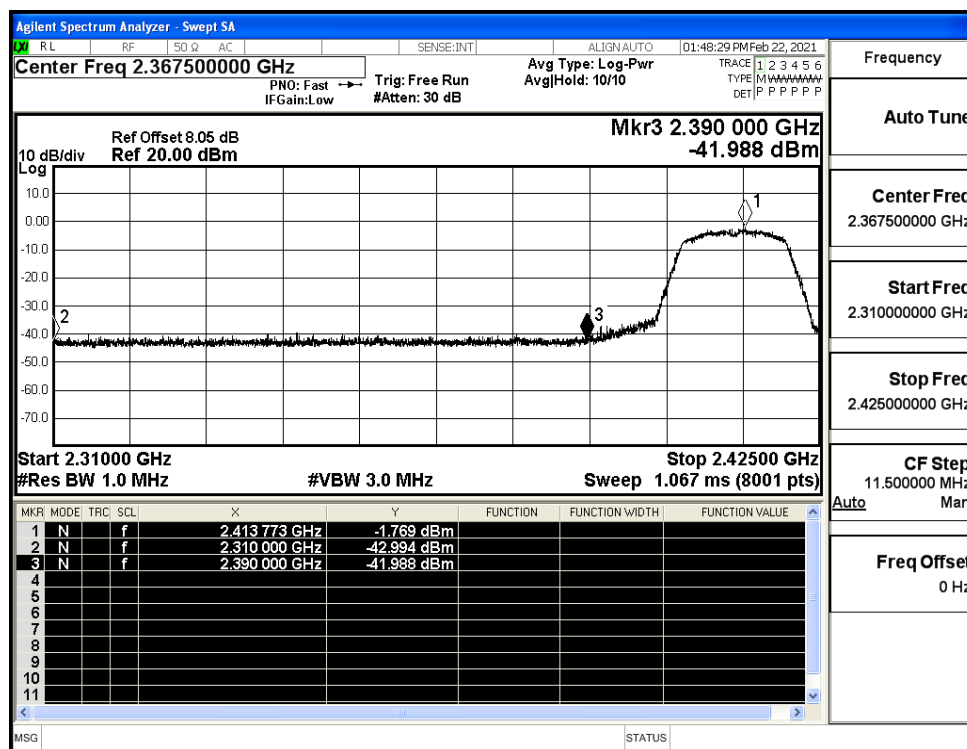
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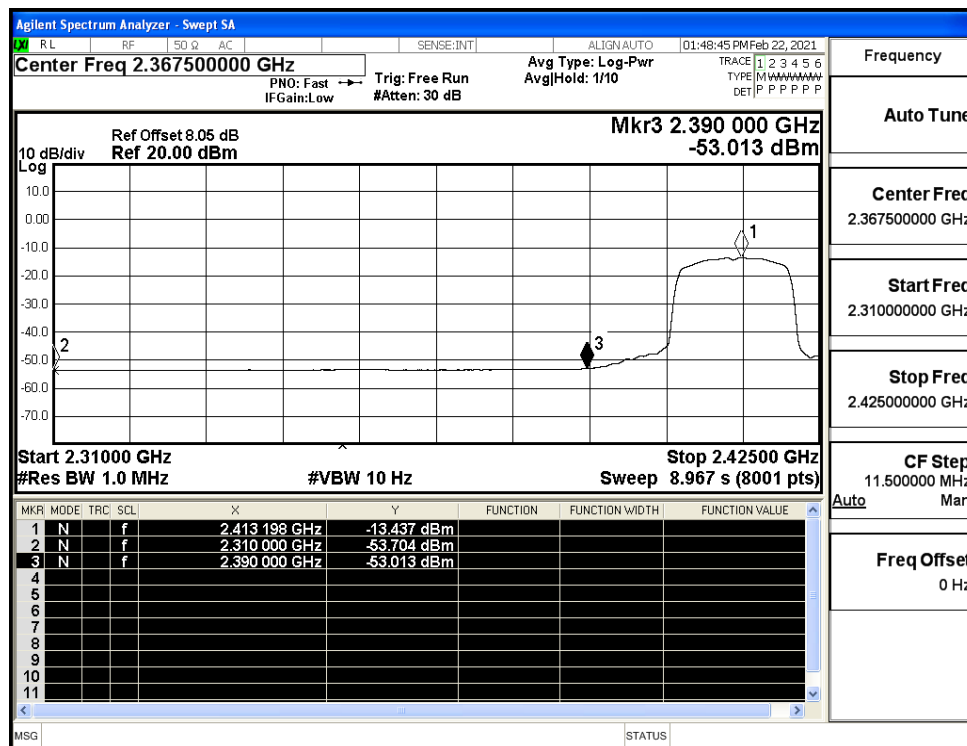
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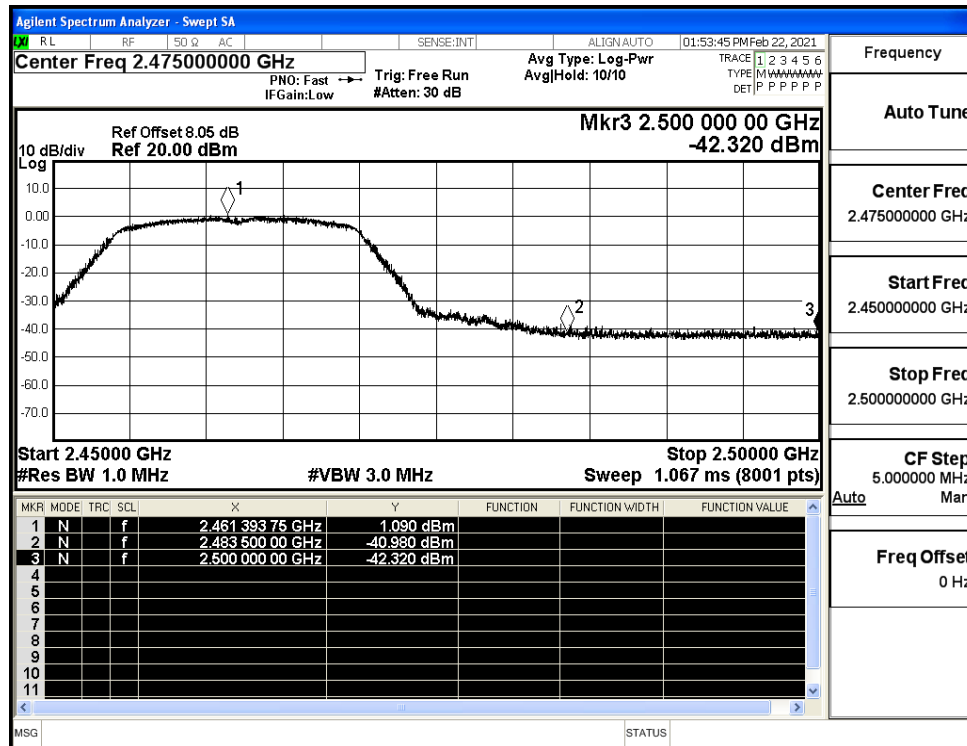
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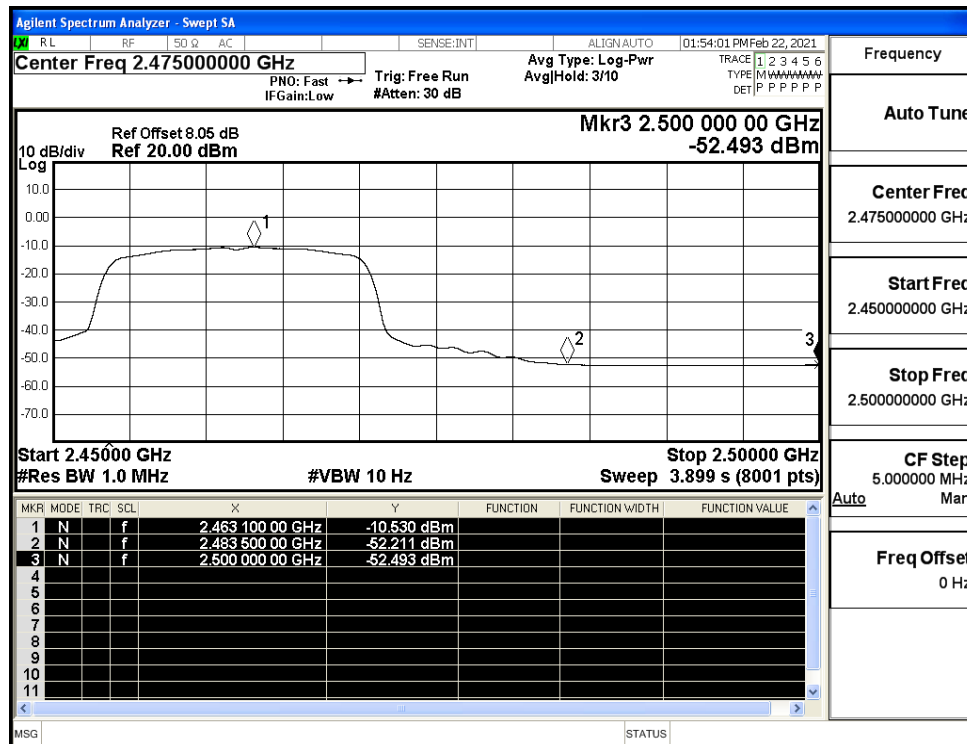
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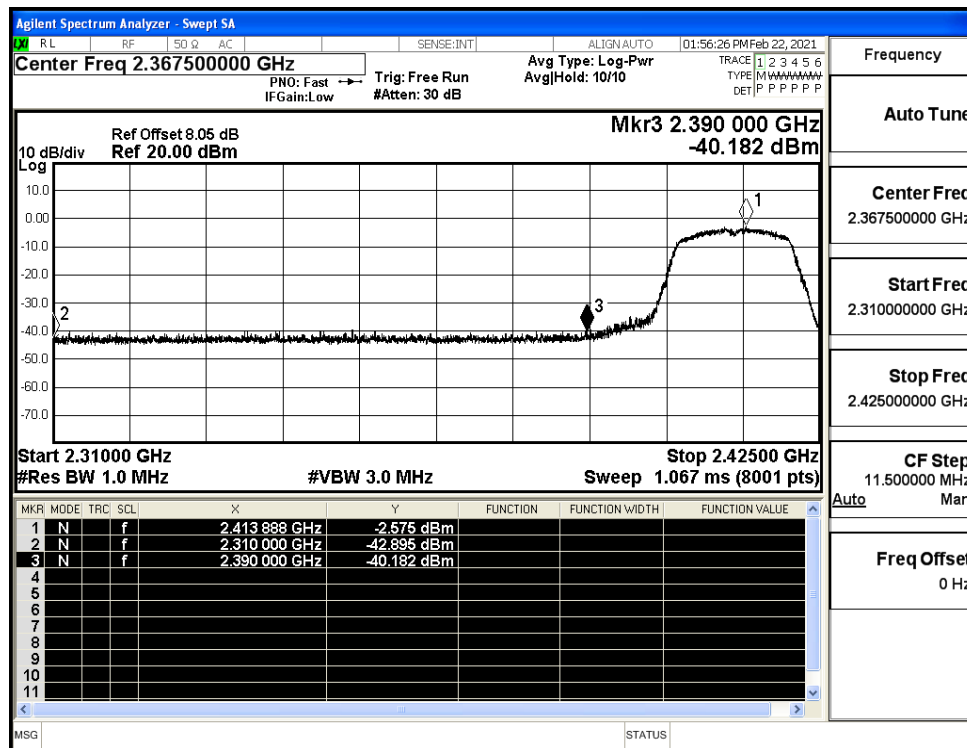
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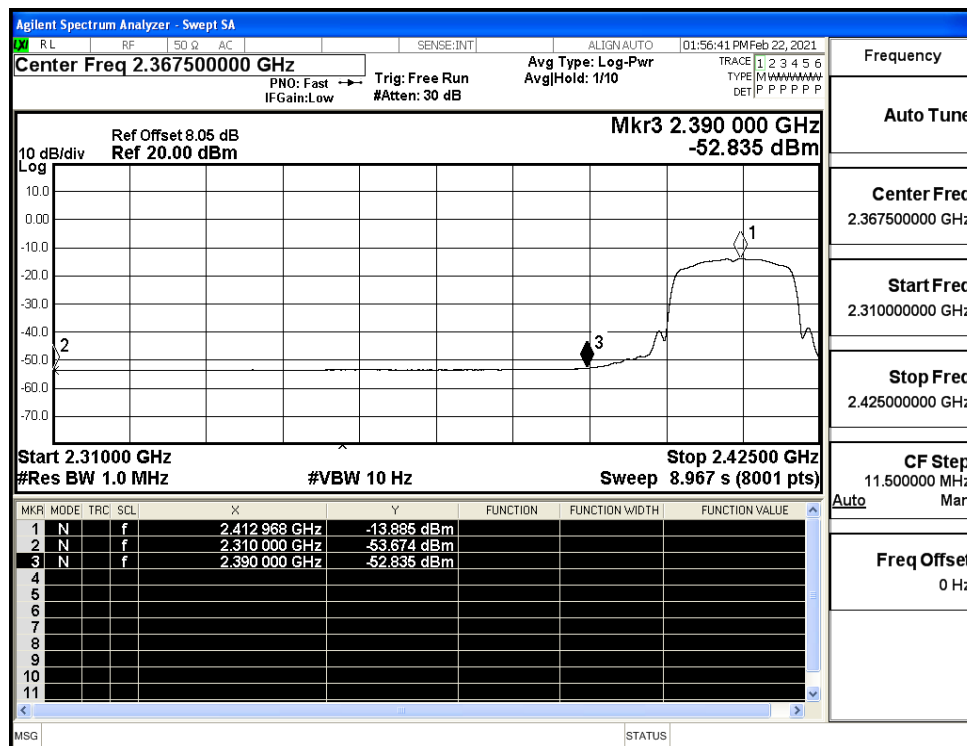
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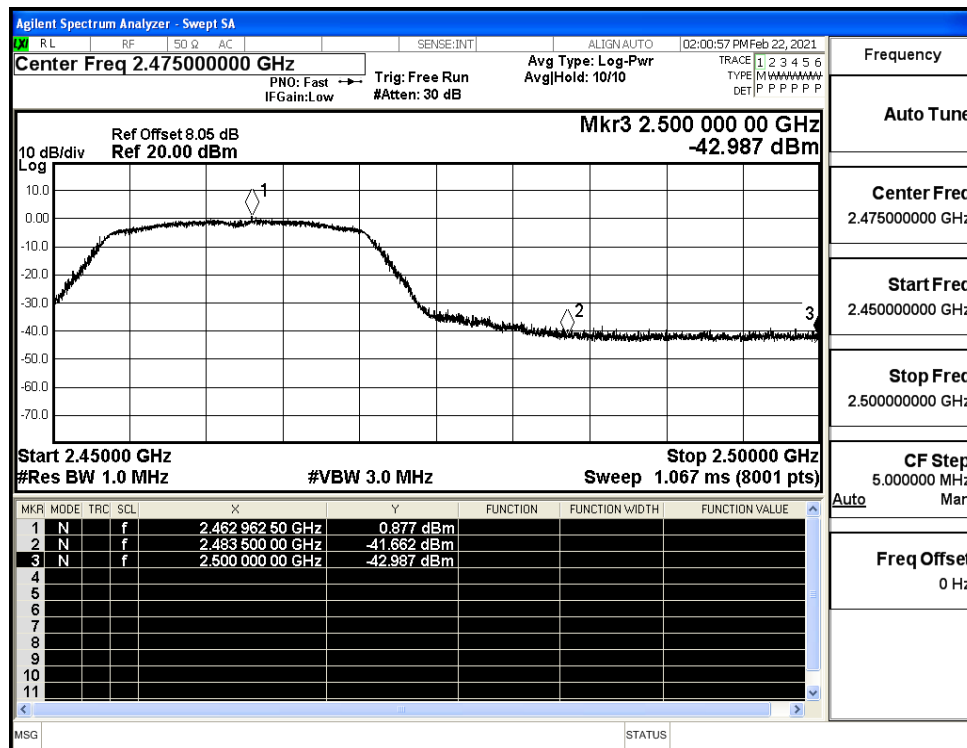
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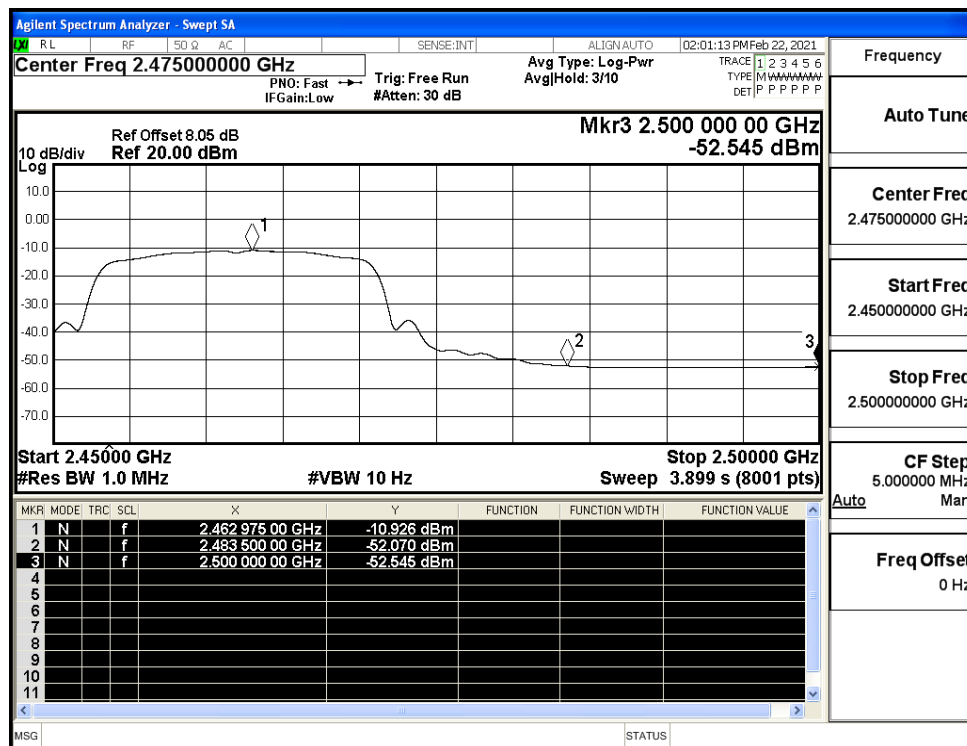
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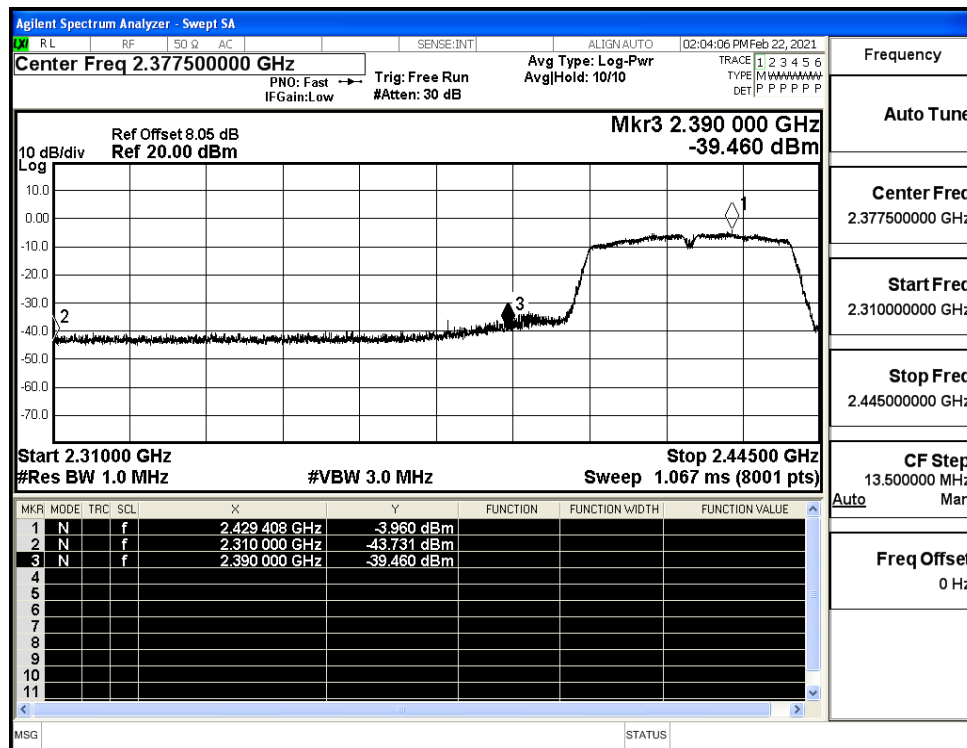
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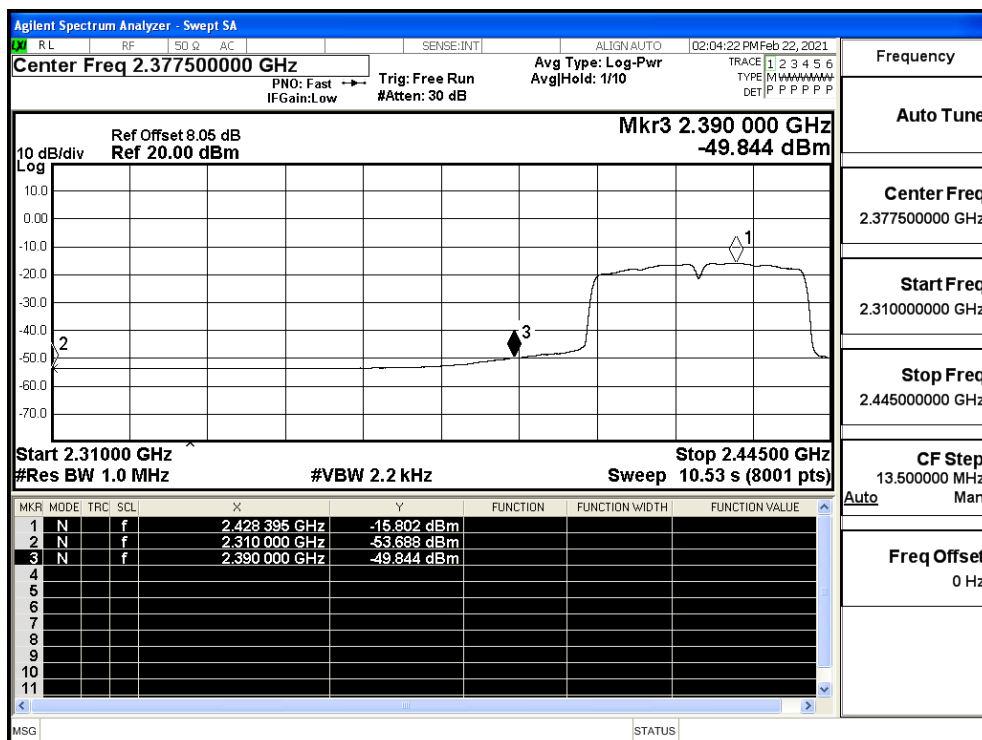
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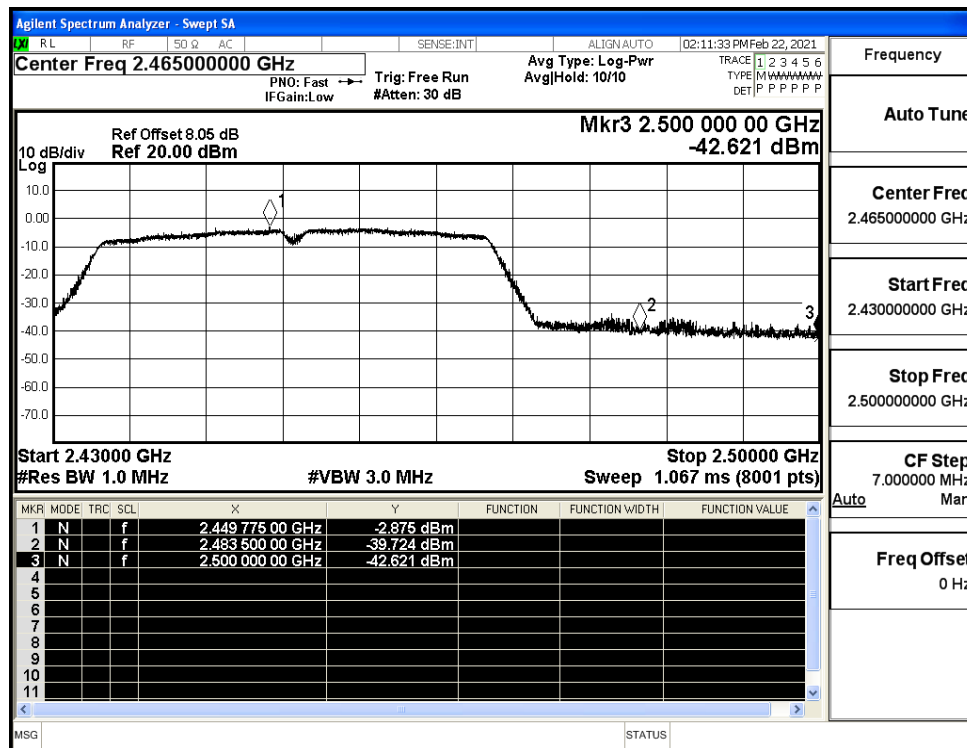
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Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

