

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: HyTabPlus

Trade Mark: HYUNDAI

Test Model: HT10LB3MBKLTM

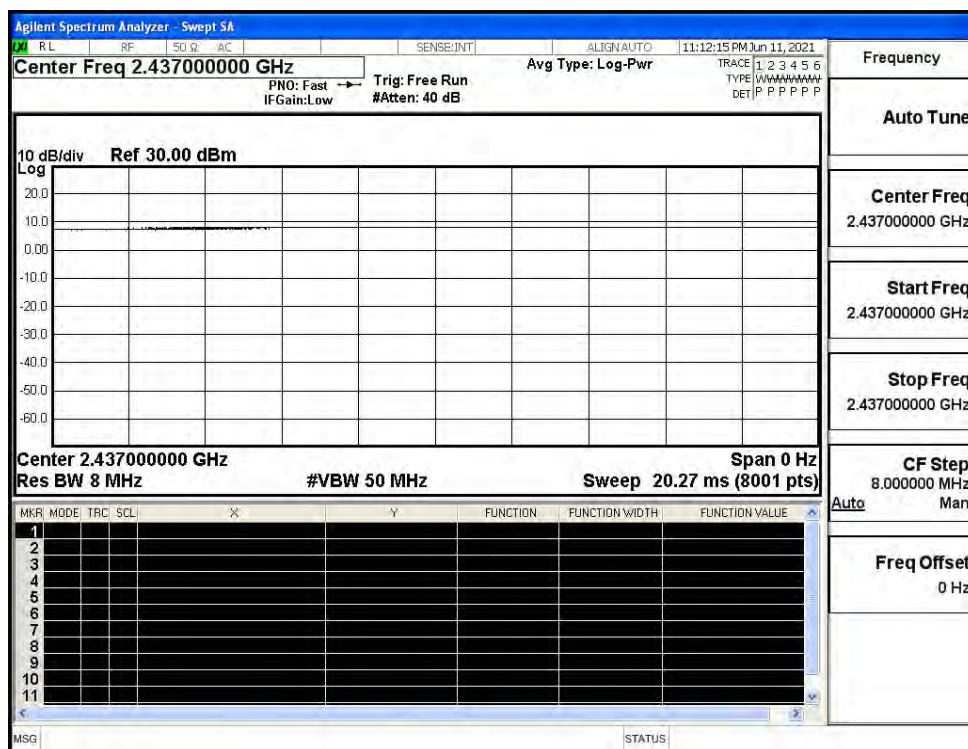
Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

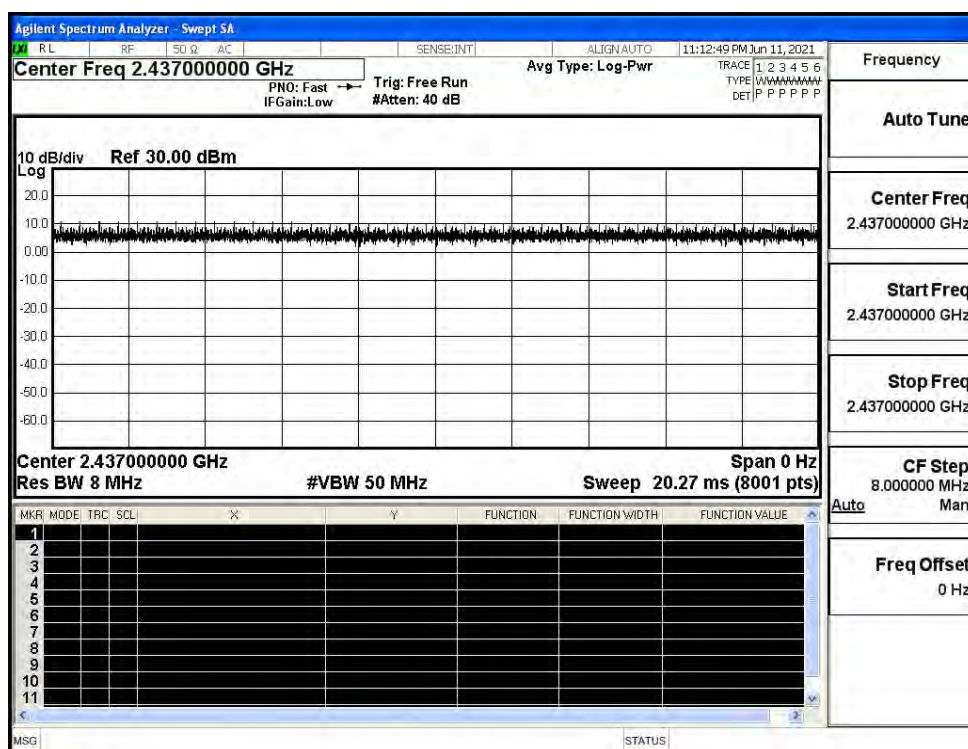
C.1 Duty Cycle

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

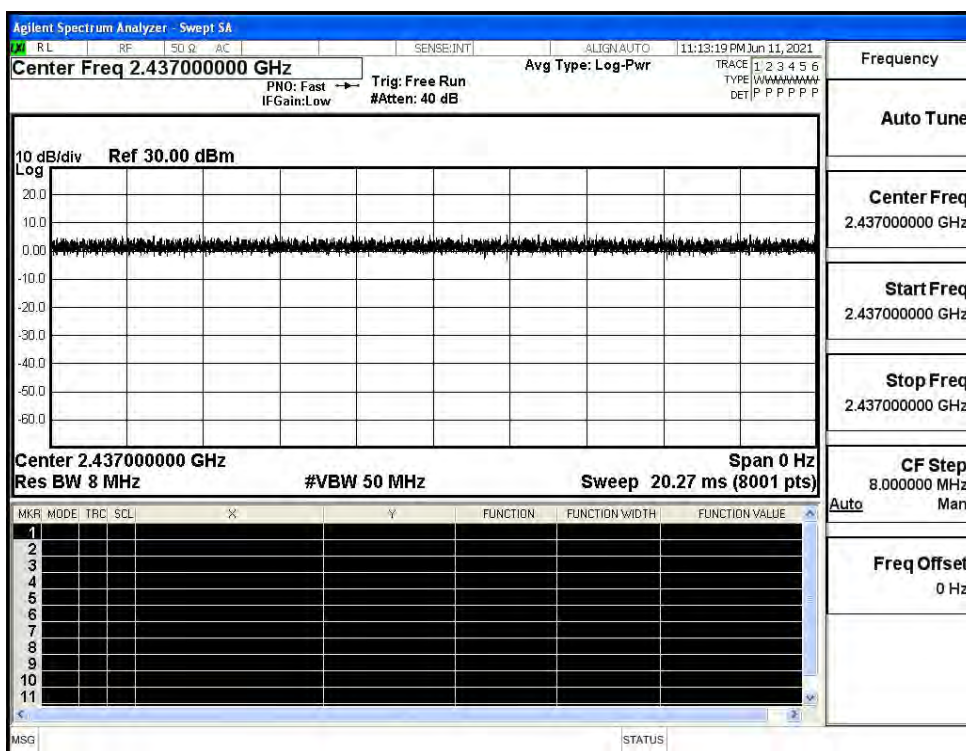
Duty Cycle_11B_2437_Ant1



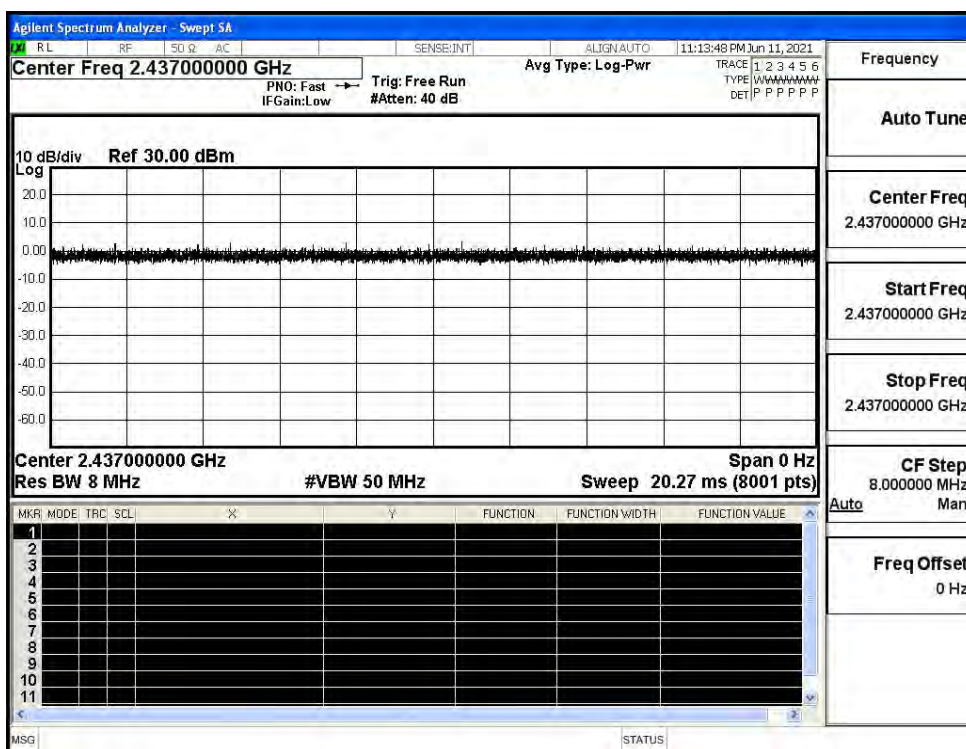
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

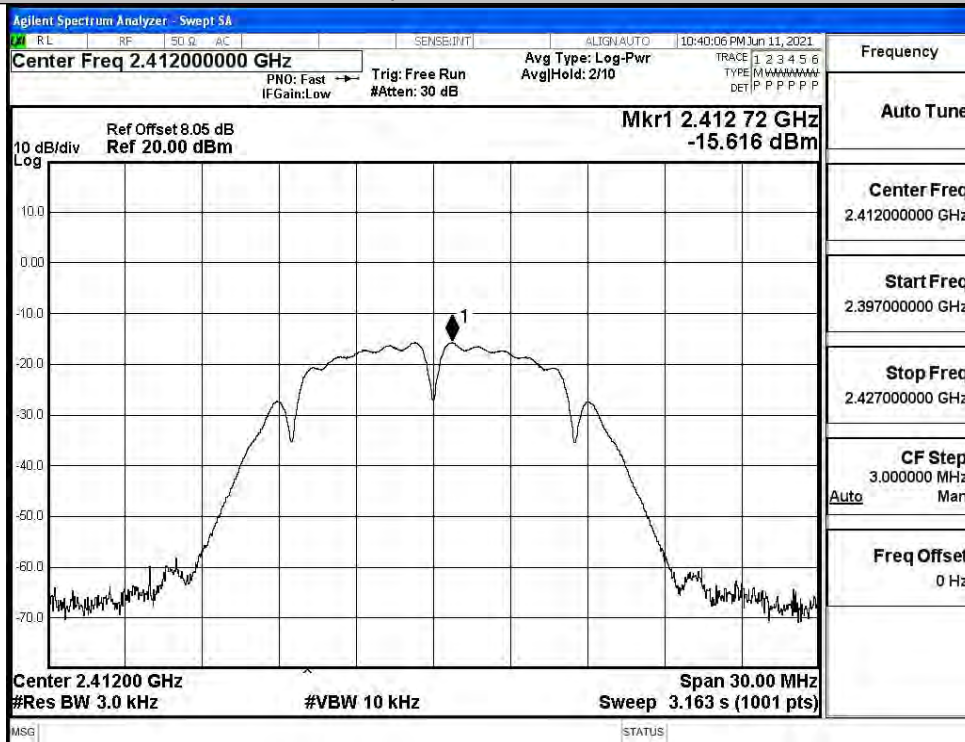


C.2 Maximum Conducted Output Power

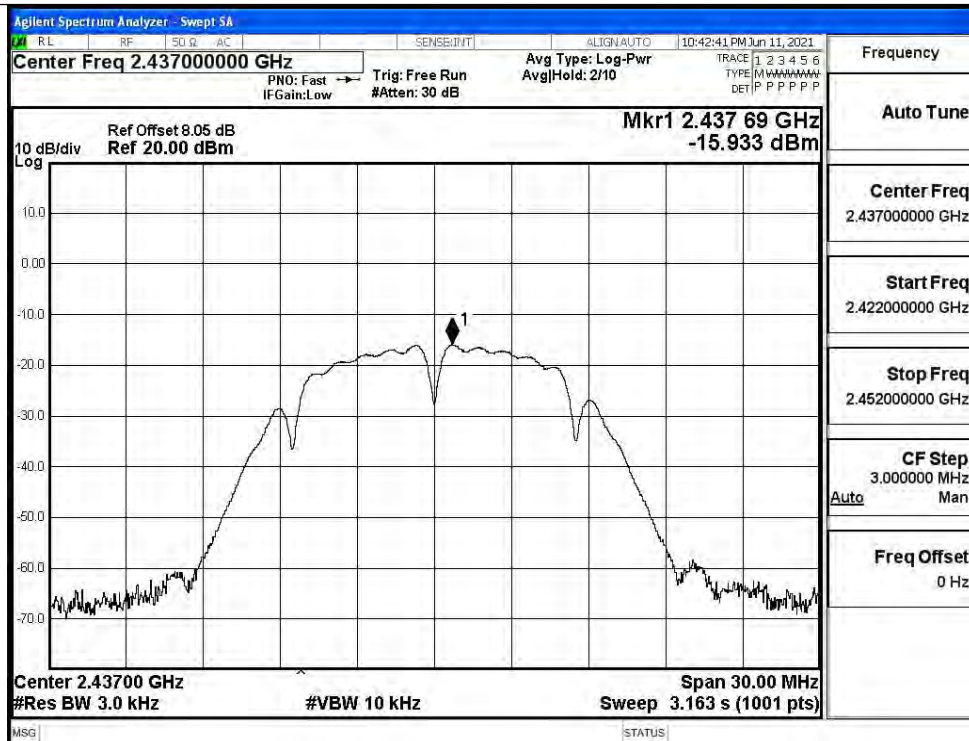
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	15.46	30	PASS
	MCH	15.23	30	PASS
	HCH	14.70	30	PASS
11G	LCH	14.21	30	PASS
	MCH	14.92	30	PASS
	HCH	14.56	30	PASS
11N20SISO	LCH	14.40	30	PASS
	MCH	15.09	30	PASS
	HCH	14.44	30	PASS
11N40SISO	LCH	13.82	30	PASS
	MCH	13.40	30	PASS
	HCH	13.39	30	PASS

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-15.616	8	PASS
	MCH	-15.933	8	PASS
	HCH	-16.499	8	PASS
11G	LCH	-22.153	8	PASS
	MCH	-20.999	8	PASS
	HCH	-20.449	8	PASS
11N20SISO	LCH	-21.860	8	PASS
	MCH	-19.837	8	PASS
	HCH	-20.995	8	PASS
11N40SISO	LCH	-23.098	8	PASS
	MCH	-24.736	8	PASS
	HCH	-23.895	8	PASS

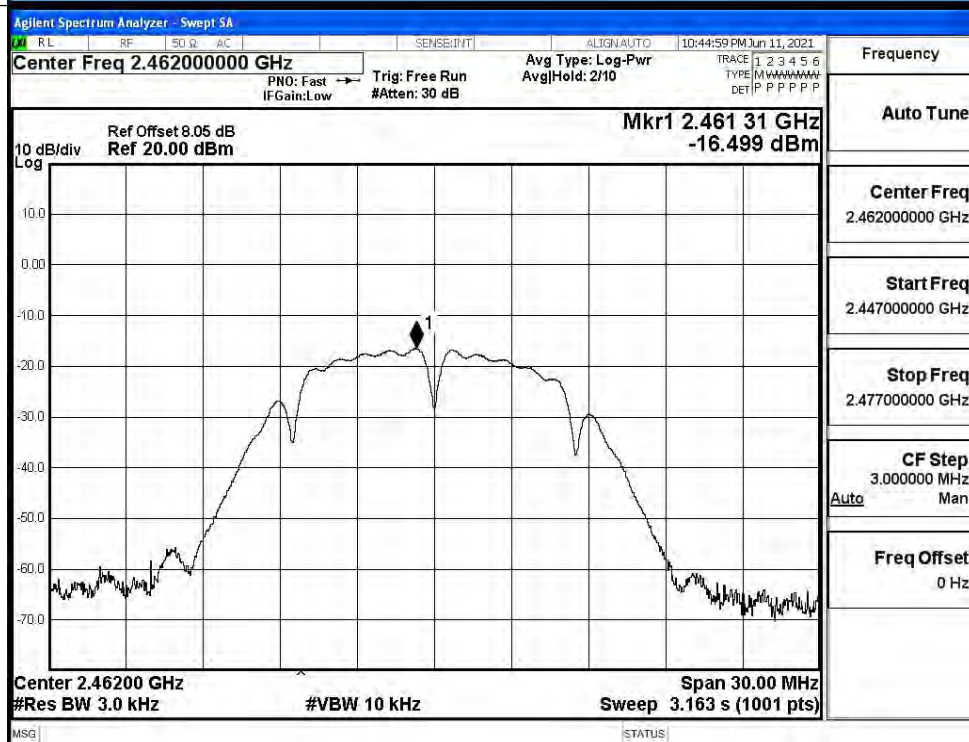
11B/LCH



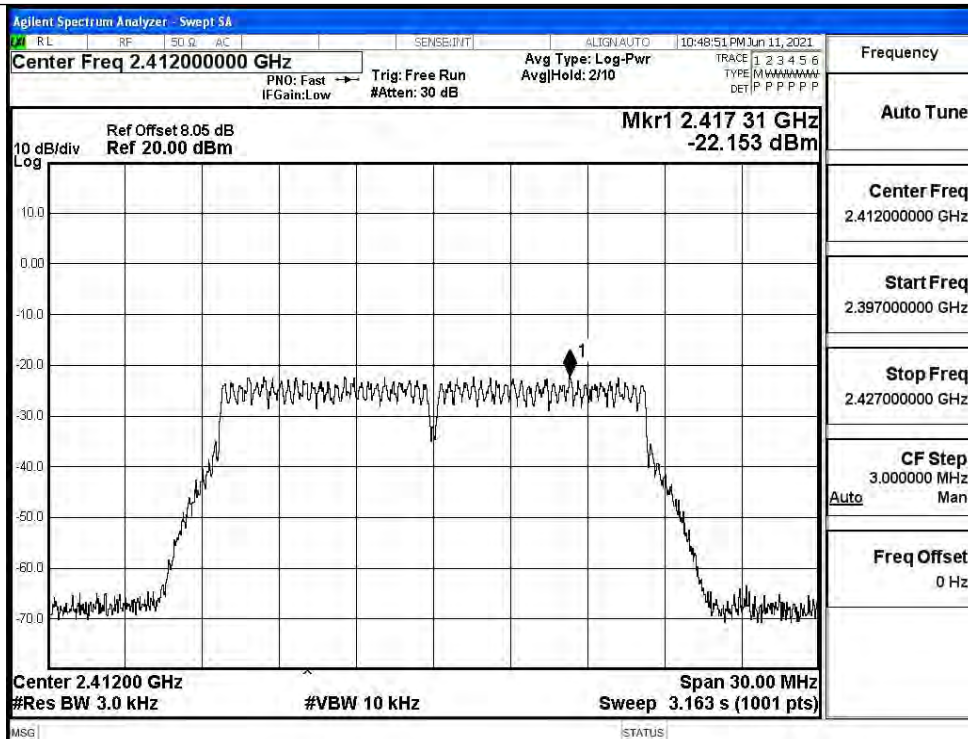
11B/MCH



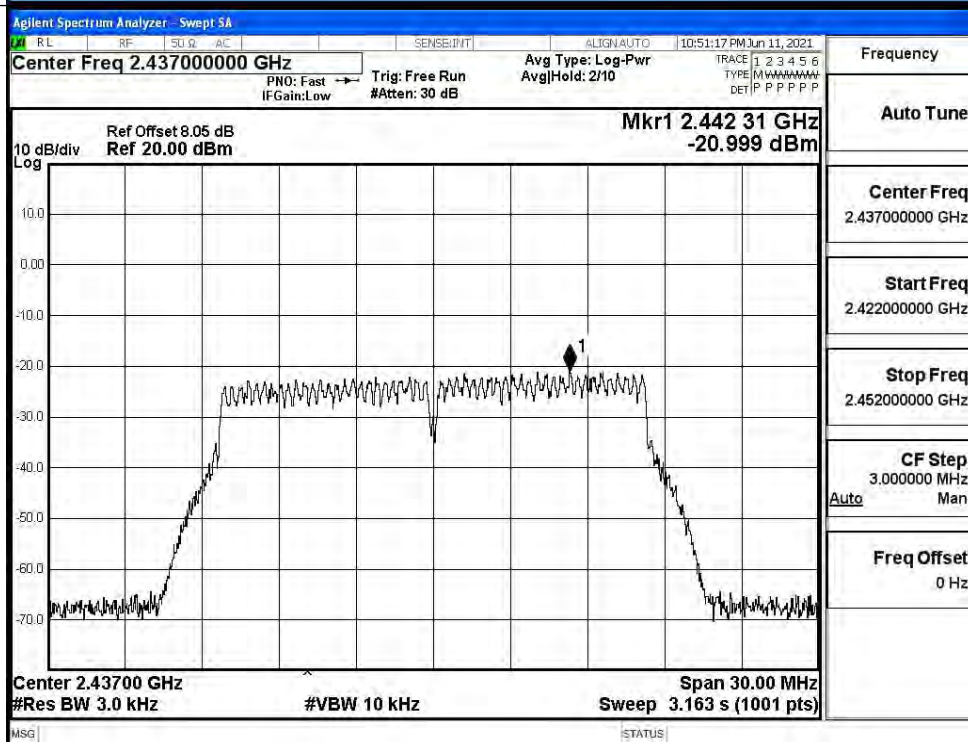
11B/HCH



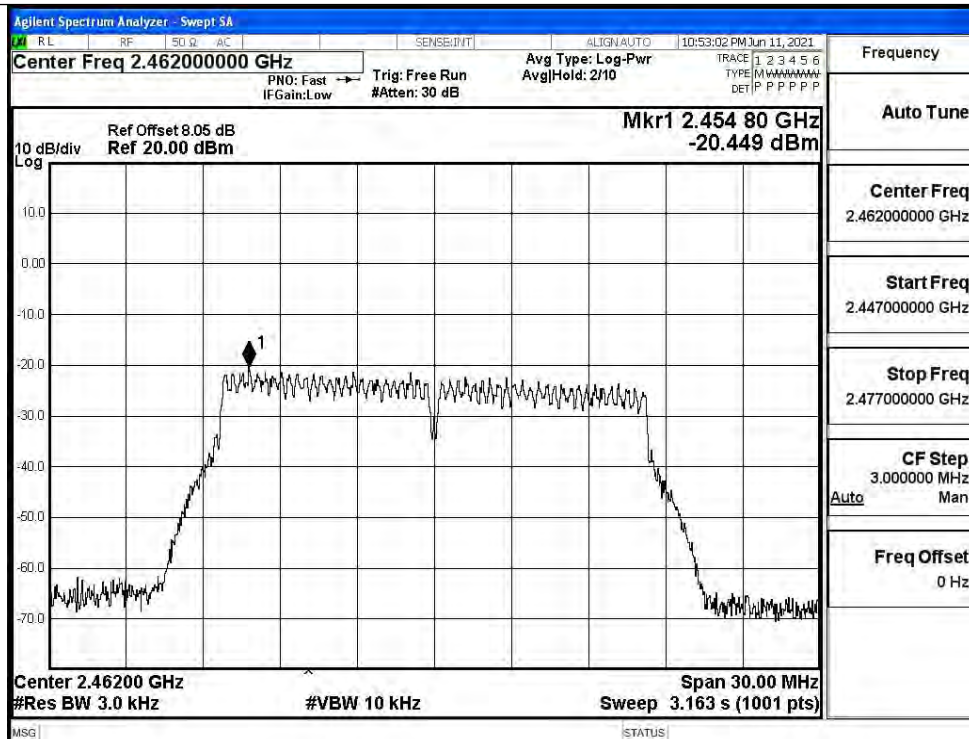
11G/LCH



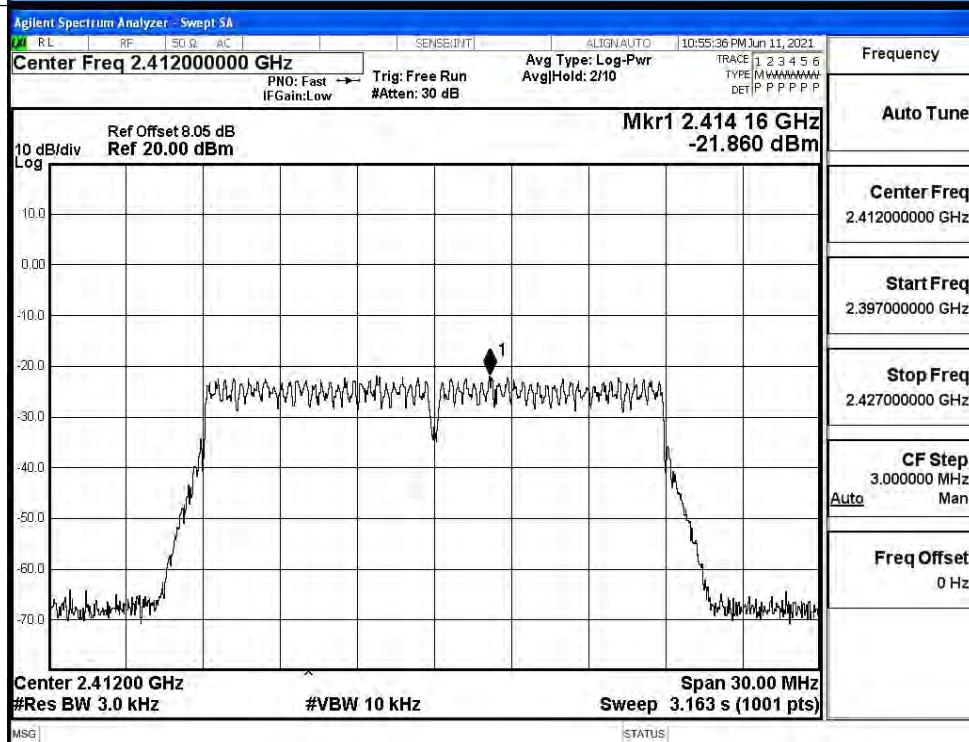
11G/MCH

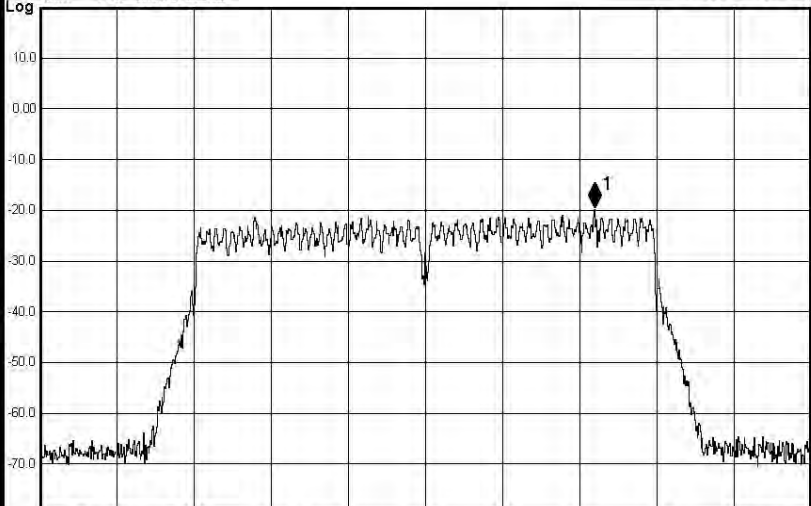
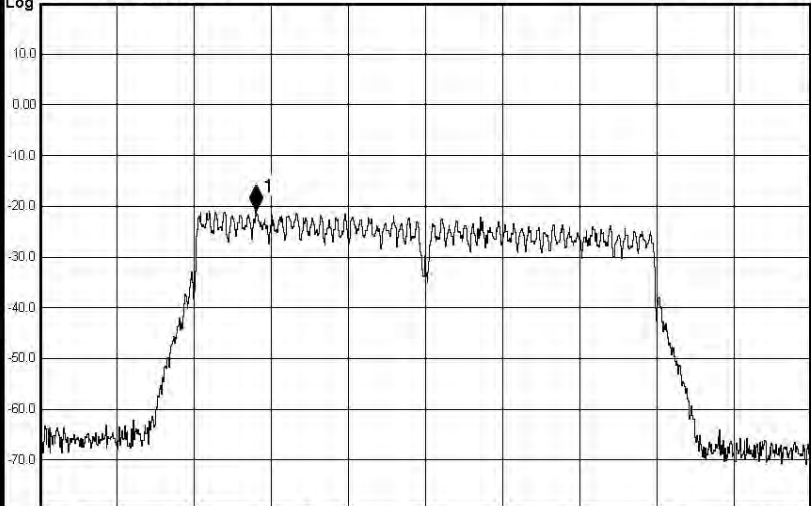


11G/HCH

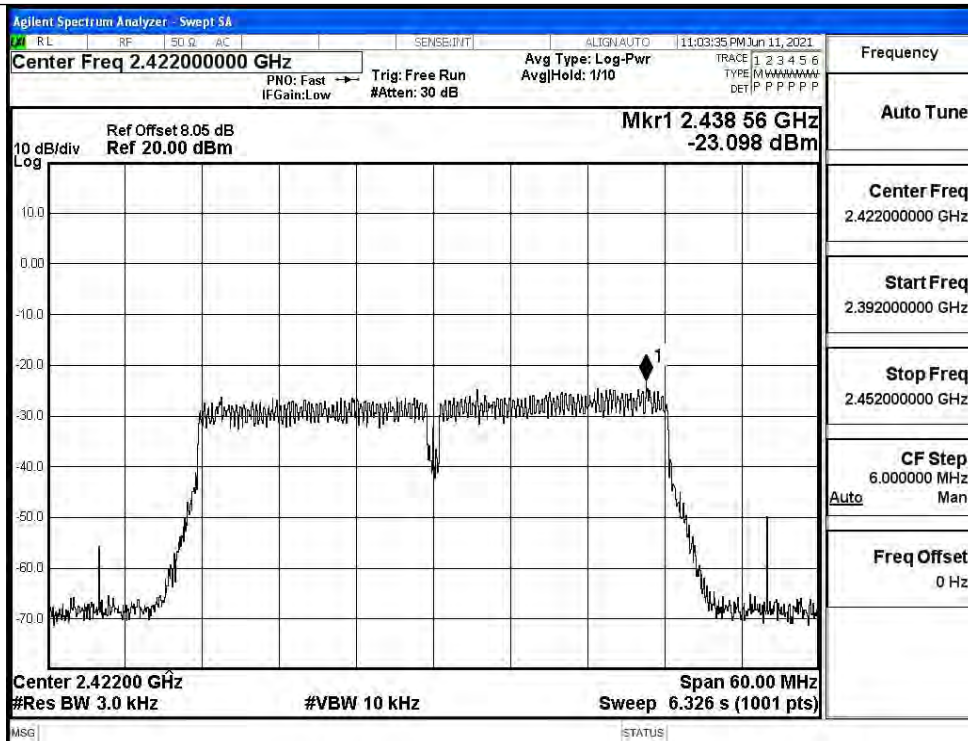


11N20SISO/LCH

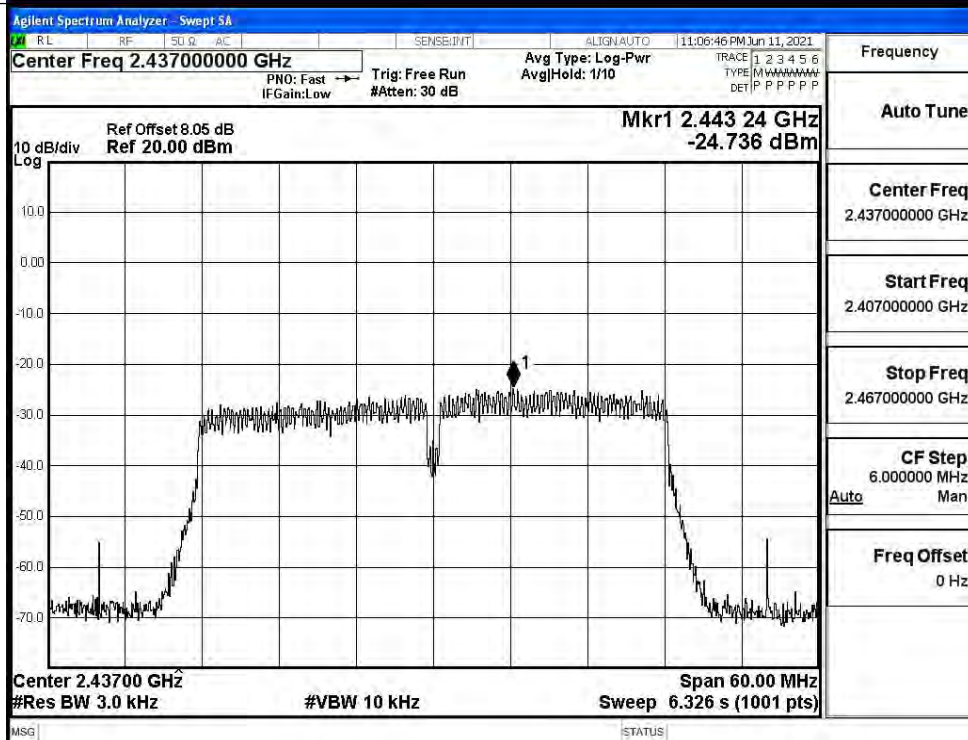


11N20SISO/MCH	Agilent Spectrum Analyzer - Swept SA RL RF SO Q AC SENSE:IT 10:58:43 PM Jun 11, 2021 Center Freq 2.437000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/10 TRACE 1 2 3 4 5 6 TYPE: M W W W W W W W DET: P P P P P P P Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.422000000 GHz Stop Freq 2.452000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.443 57 GHz -19.837 dBm  Center 2.43700 GHz Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) MSG STATUS
11N20SISO/HCH	Agilent Spectrum Analyzer - Swept SA RL RF SO Q AC SENSE:IT 11:00:56 PM Jun 11, 2021 Center Freq 2.462000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 2/10 TRACE 1 2 3 4 5 6 TYPE: M W W W W W W W DET: P P P P P P P 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 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.455 40 GHz -20.995 dBm  Center 2.46200 GHz Span 30.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) MSG STATUS

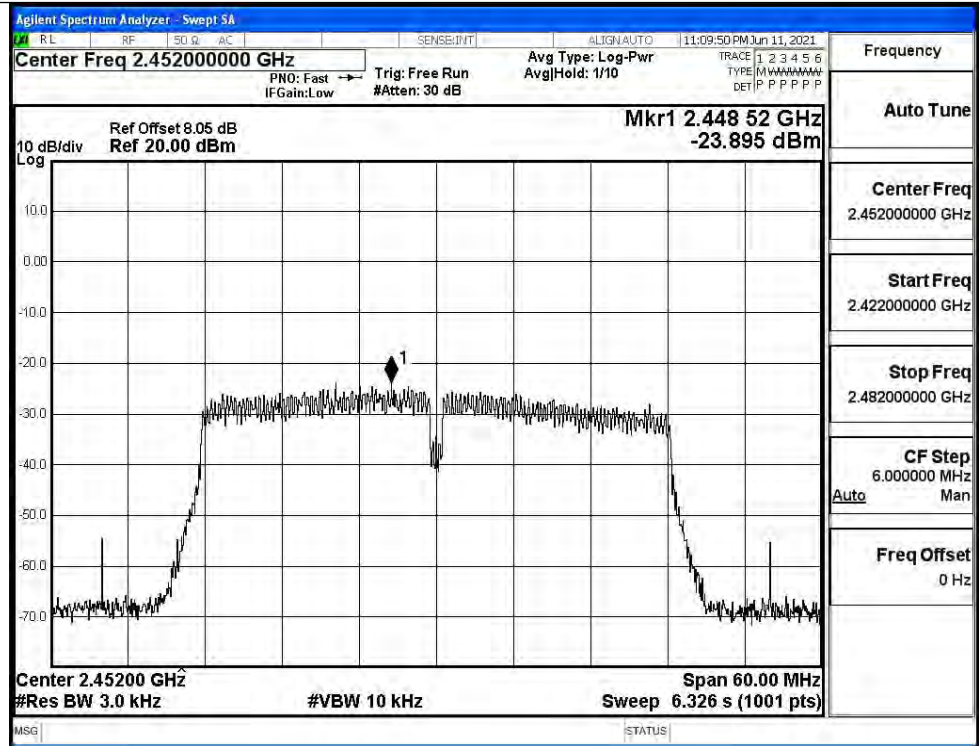
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH

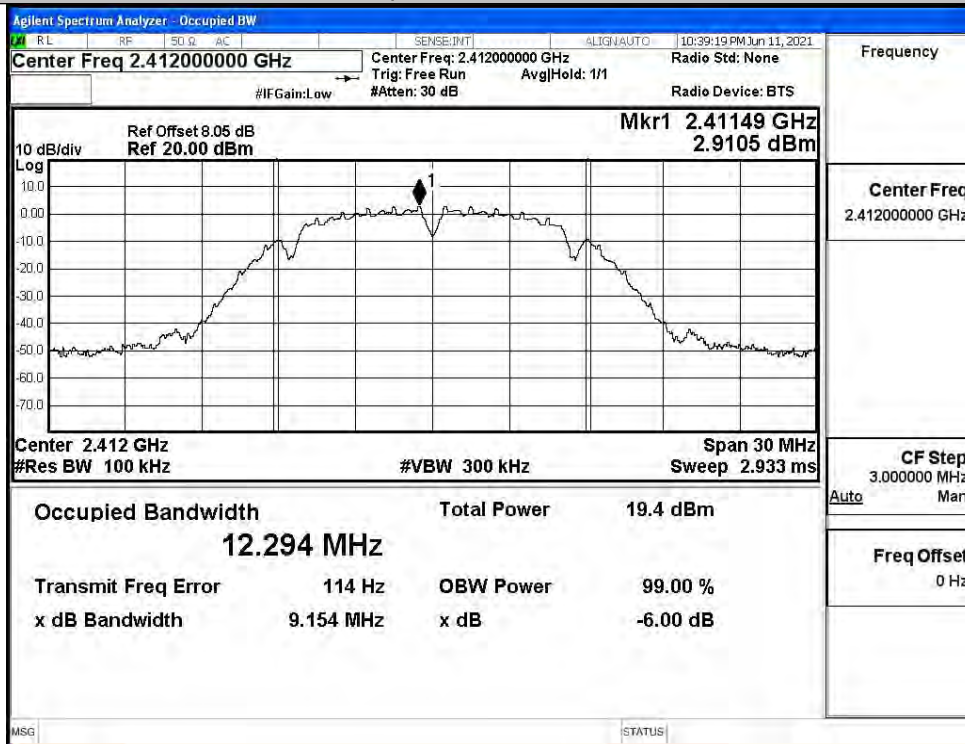


C.4 6dB Bandwidth

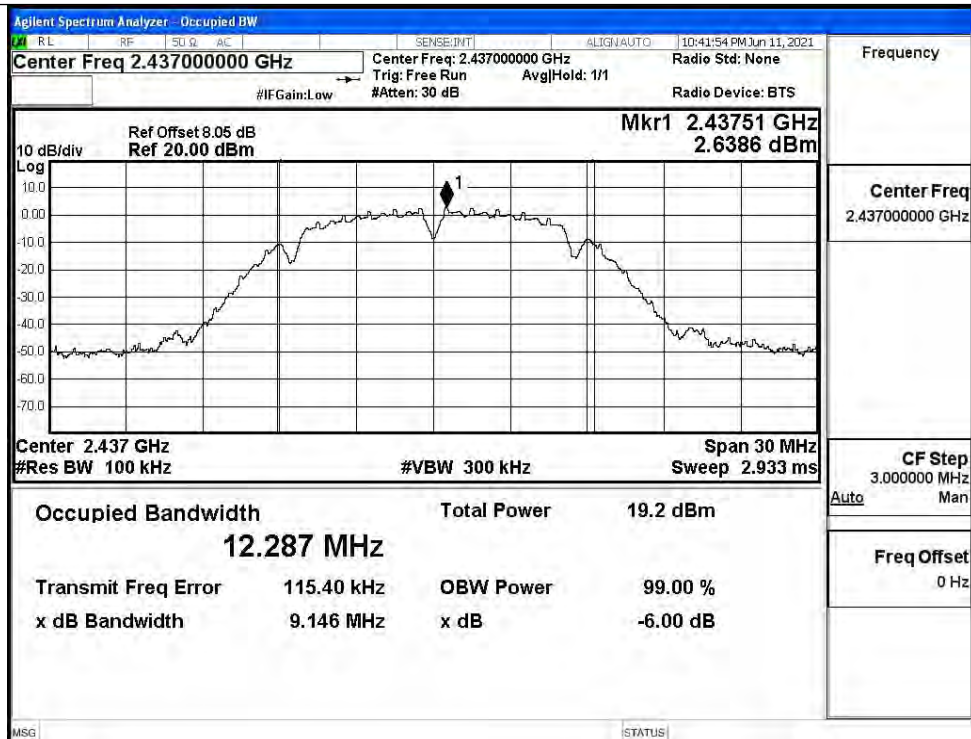
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.154	≥ 0.5	PASS
	MCH	9.146	≥ 0.5	PASS
	HCH	9.522	≥ 0.5	PASS
11G	LCH	16.62	≥ 0.5	PASS
	MCH	16.58	≥ 0.5	PASS
	HCH	16.54	≥ 0.5	PASS
11N20SISO	LCH	17.81	≥ 0.5	PASS
	MCH	17.79	≥ 0.5	PASS
	HCH	17.75	≥ 0.5	PASS
11N40SISO	LCH	36.51	≥ 0.5	PASS
	MCH	36.38	≥ 0.5	PASS
	HCH	36.01	≥ 0.5	PASS

Test Graphs

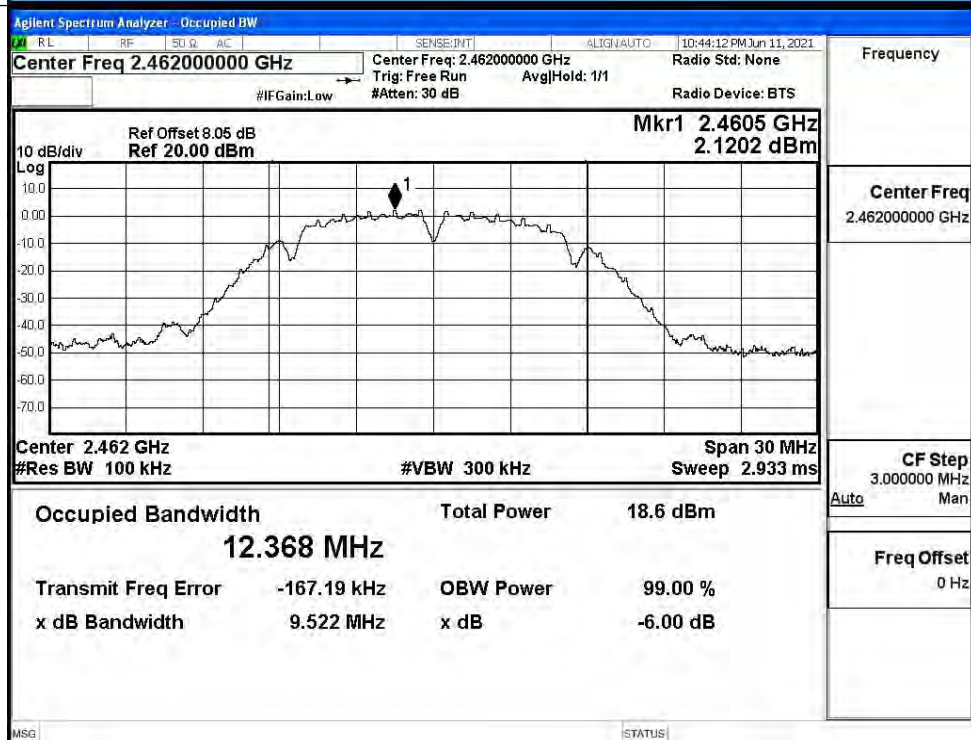
11B/LCH



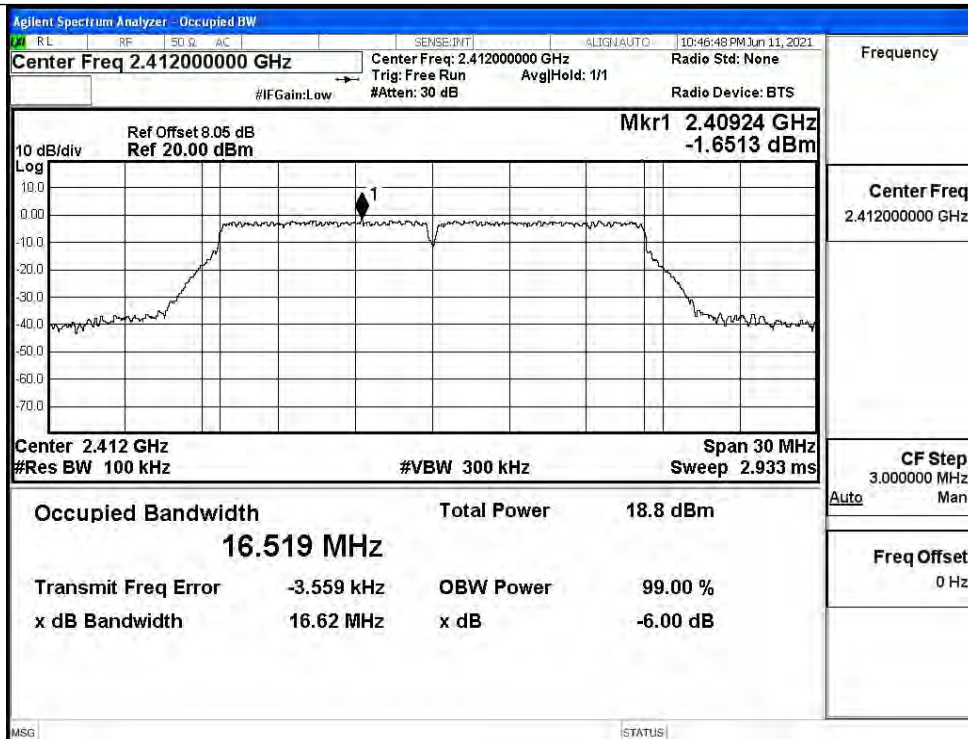
11B/MCH



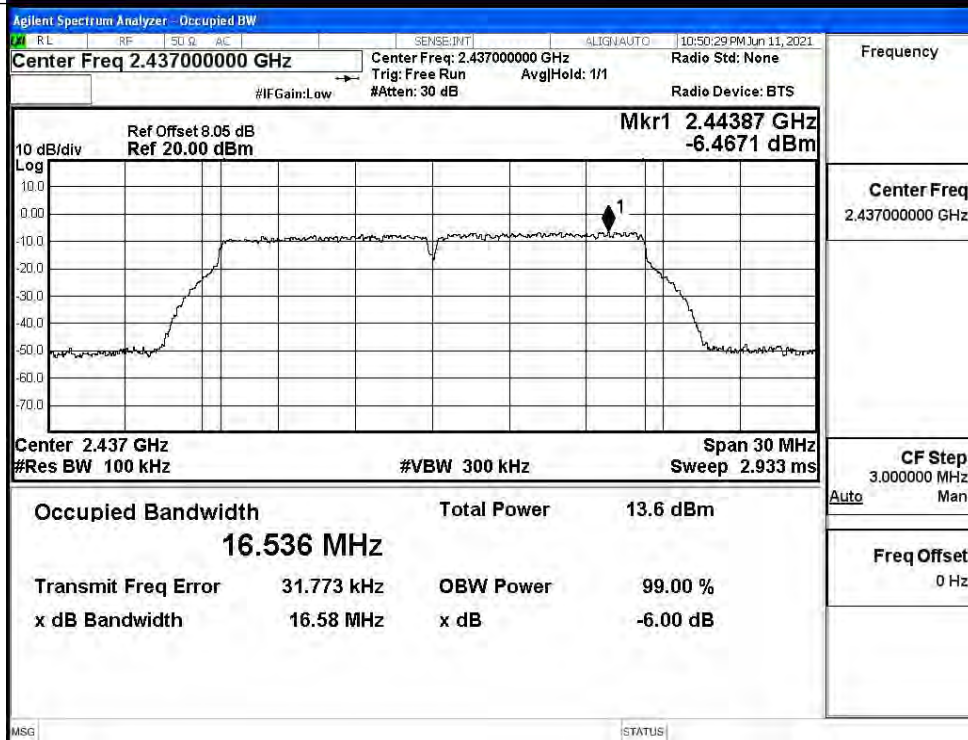
11B/HCH



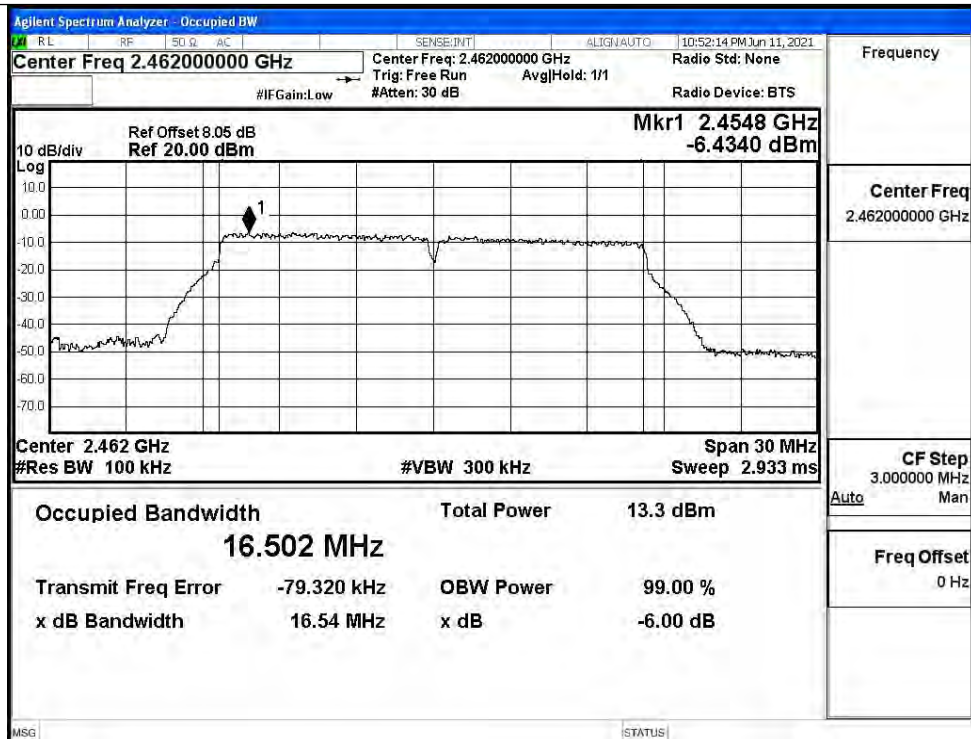
11G/LCH



11G/MCH



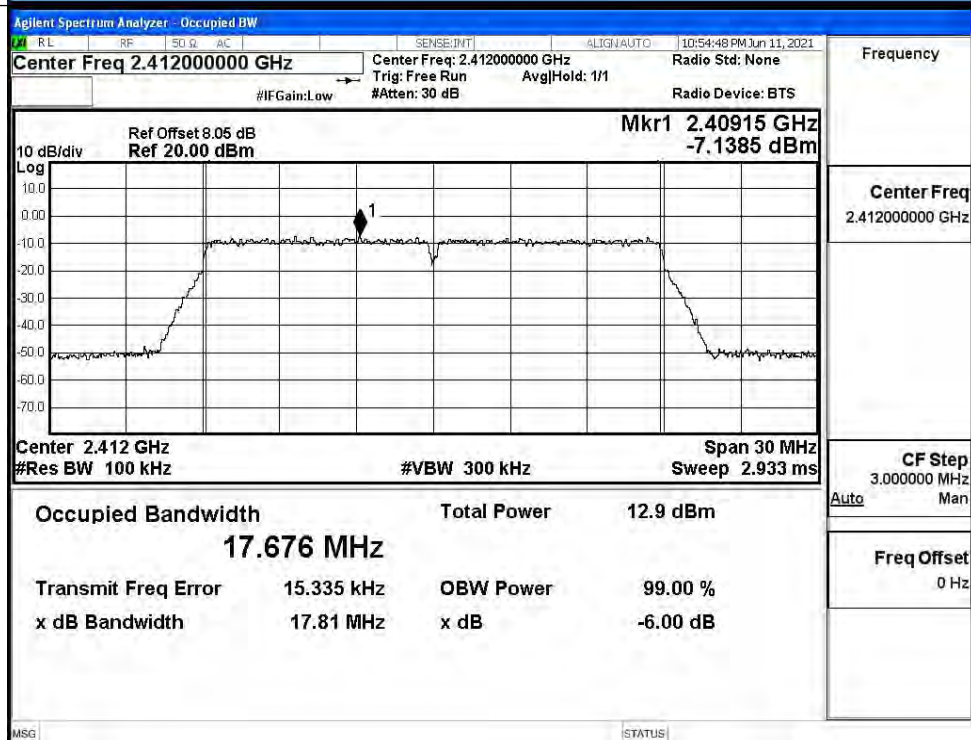
11G/HCH



Frequency

Center Freq
2.462000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

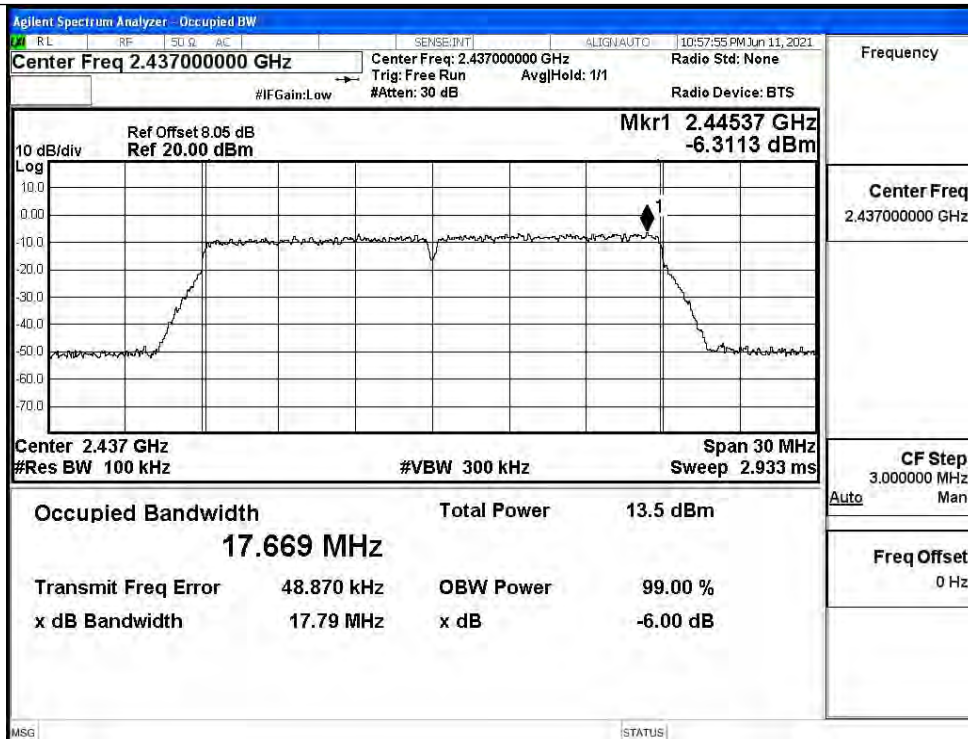
11N20SISO/LCH



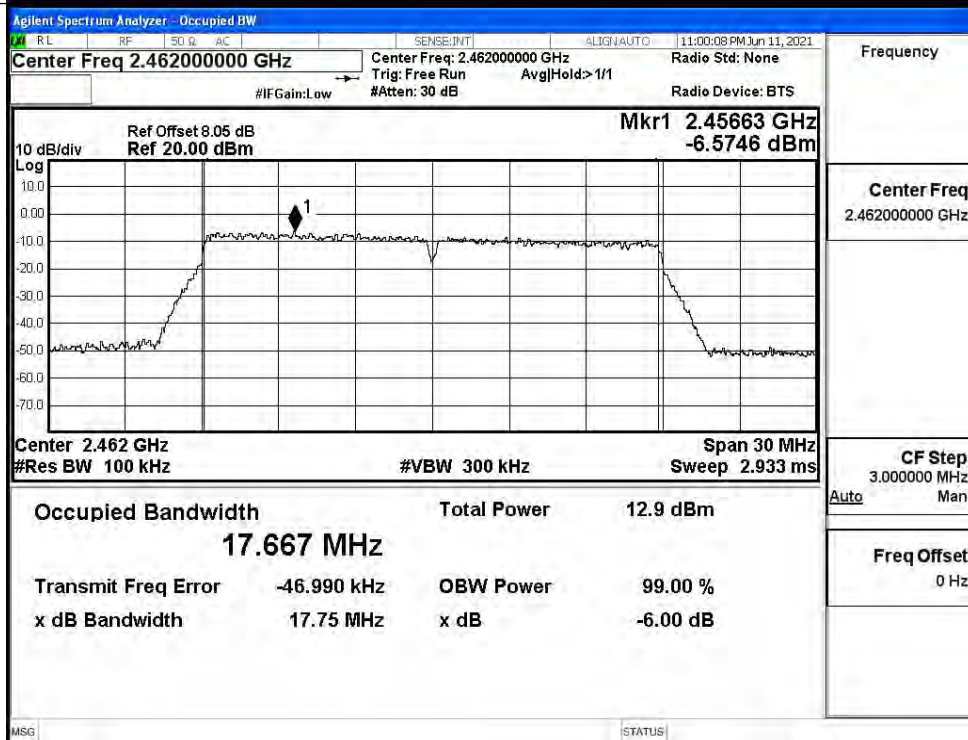
Frequency

Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

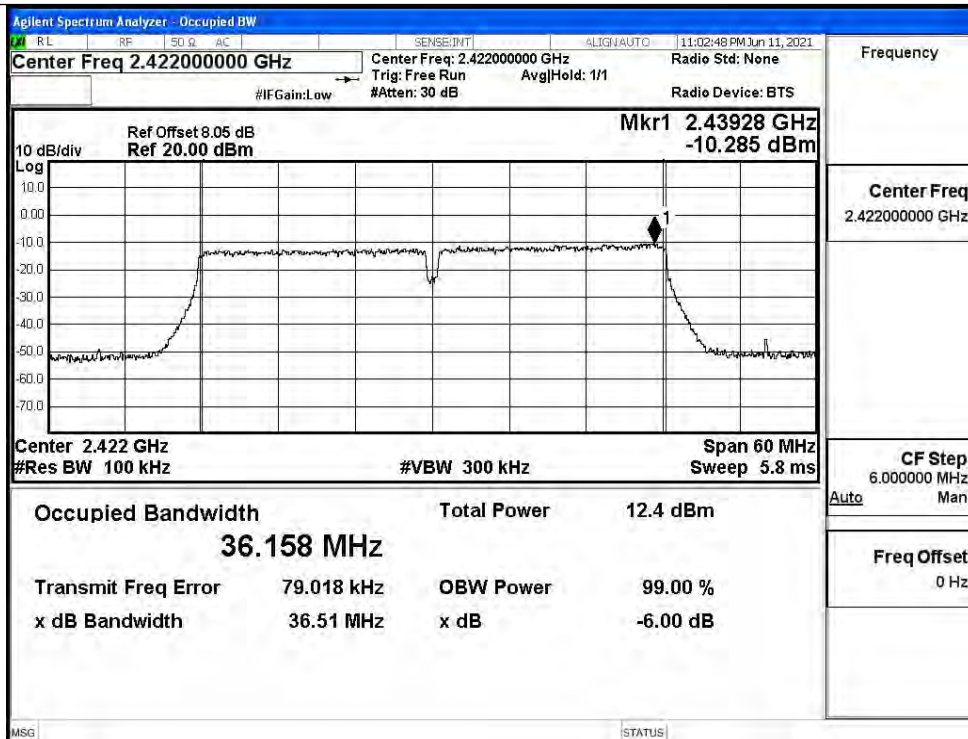
11N20SISO/MCH



11N20SISO/HCH



11N40SISO/LCH



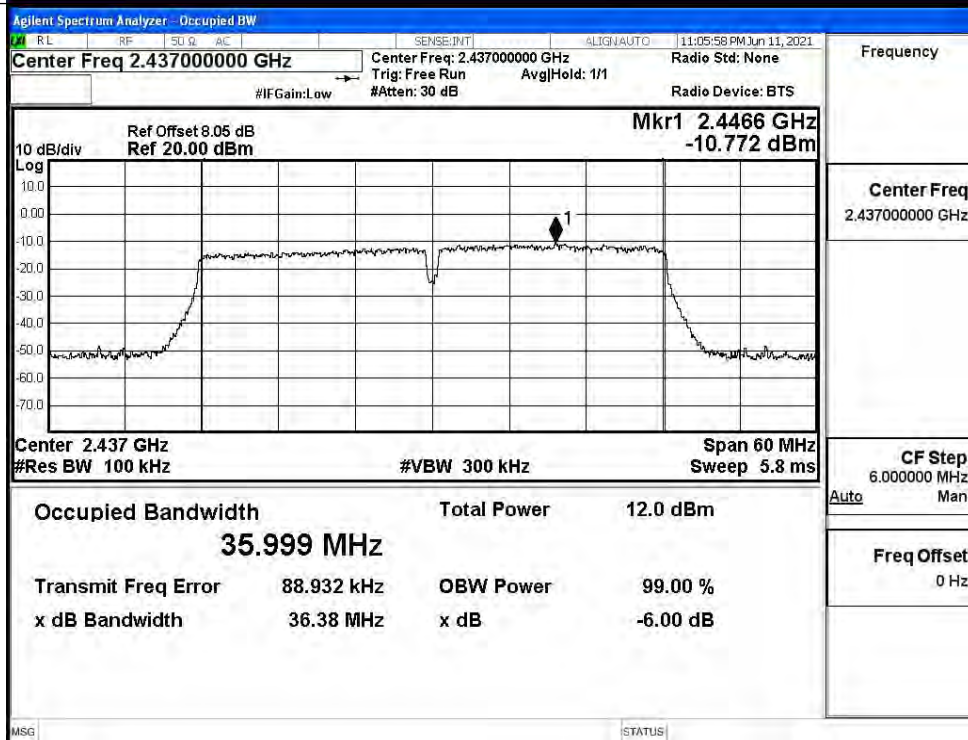
Frequency

Center Freq
2.422000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

11N40SISO/MCH



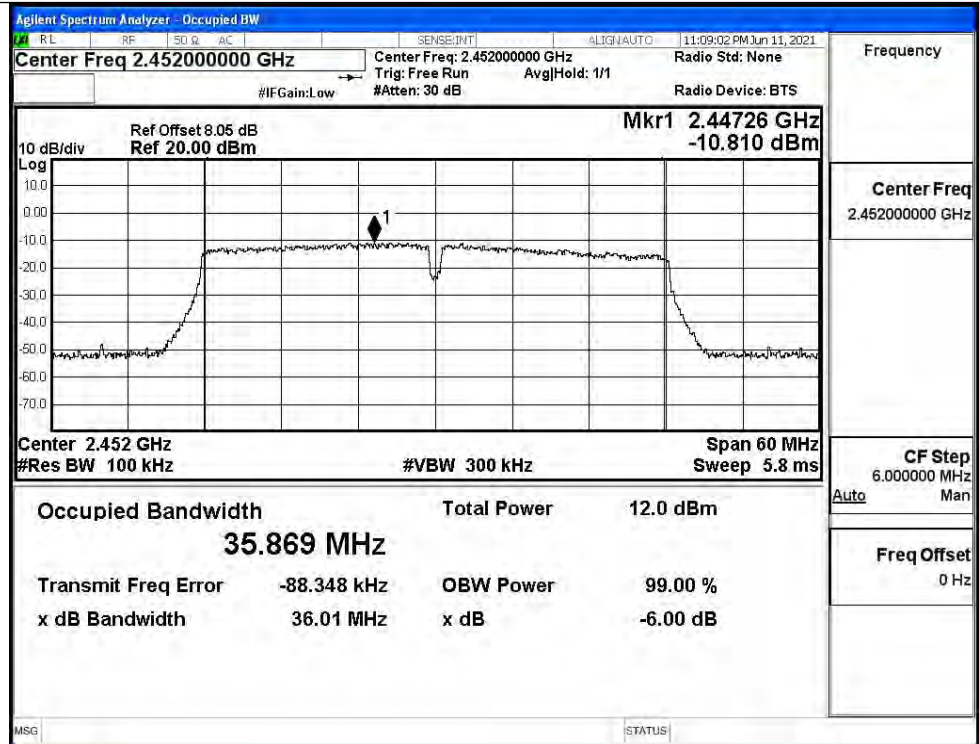
Frequency

Center Freq
2.437000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

11N40SISO/HCH

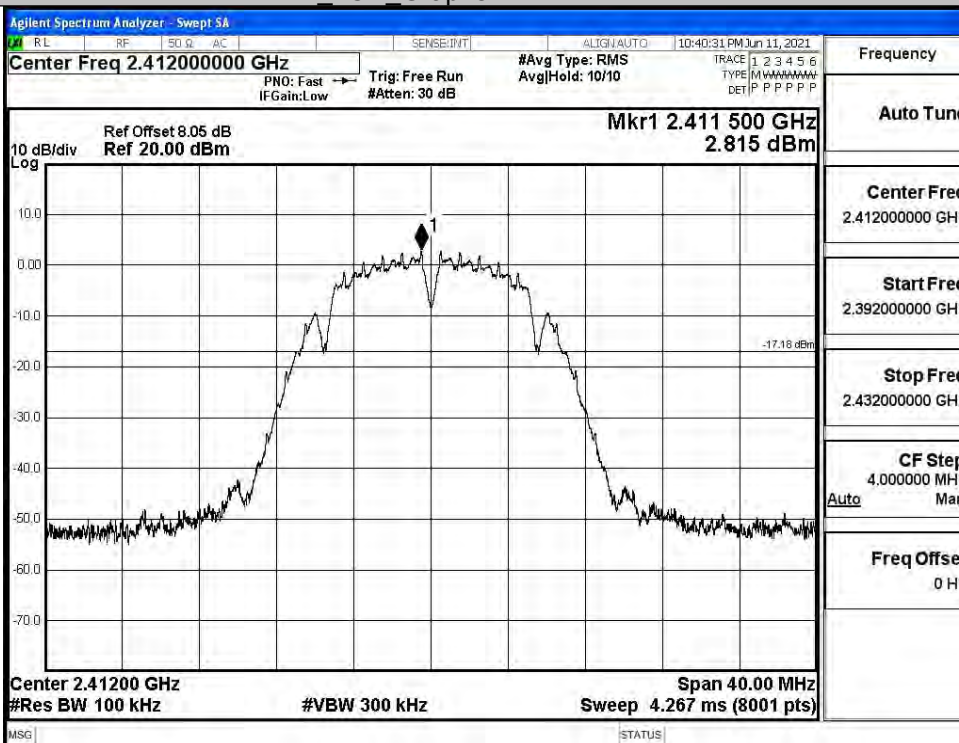


C.5 RF Conducted Spurious Emissions

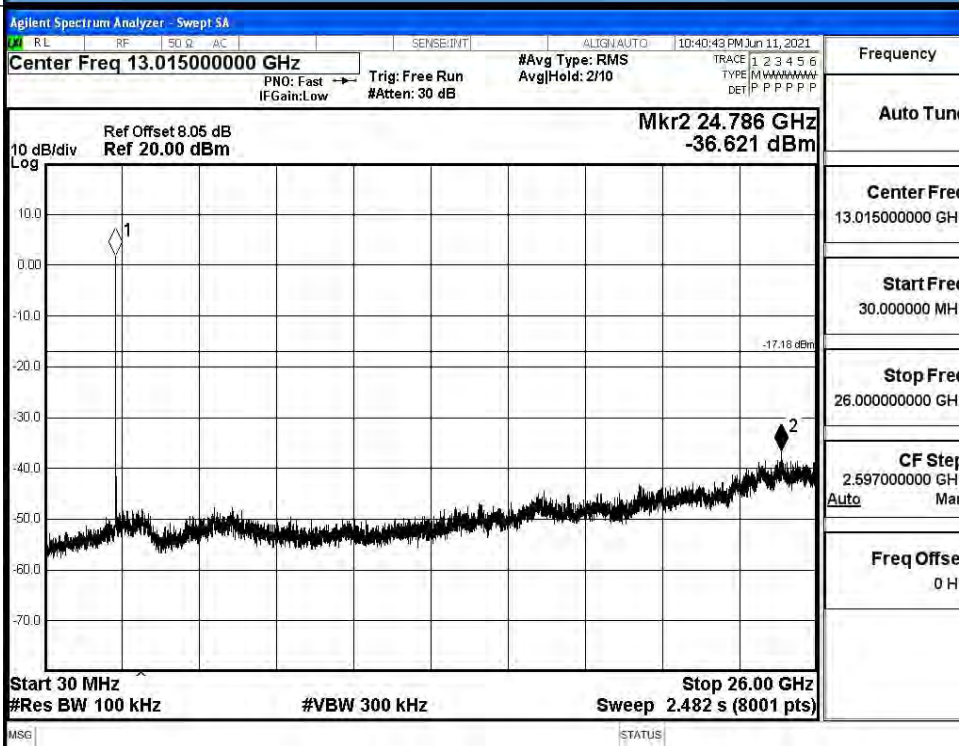
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.815	-36.621	-17.185	PASS
	MCH	2.578	-37.884	-17.422	PASS
	HCH	2.037	-37.934	-17.963	PASS
11G	LCH	-7.9	-36.331	-27.900	PASS
	MCH	-6.499	-38.020	-26.499	PASS
	HCH	-6.629	-38.656	-26.629	PASS
11N20 SISO	LCH	-7.548	-37.998	-27.548	PASS
	MCH	-6.198	-38.453	-26.198	PASS
	HCH	-6.521	-37.851	-26.521	PASS
11N40 SISO	LCH	-10.343	-38.155	-30.343	PASS
	MCH	-11.091	-38.192	-31.091	PASS
	HCH	-11.067	-38.278	-31.067	PASS

11B LCH Graphs

Pref/11B/LCH

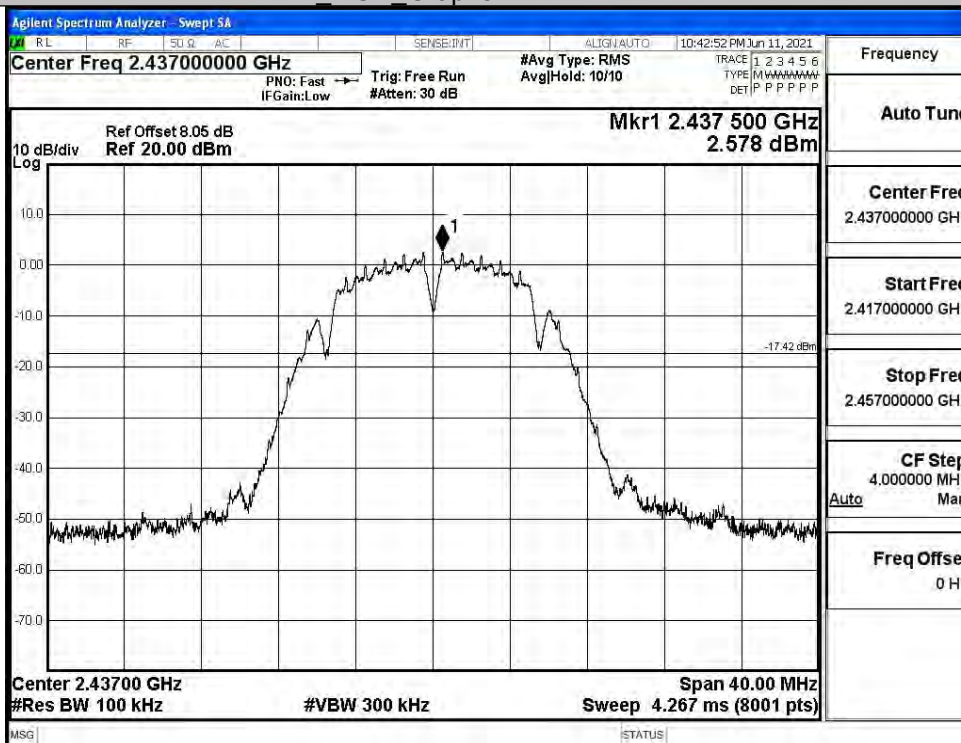


Puw/11B/LCH

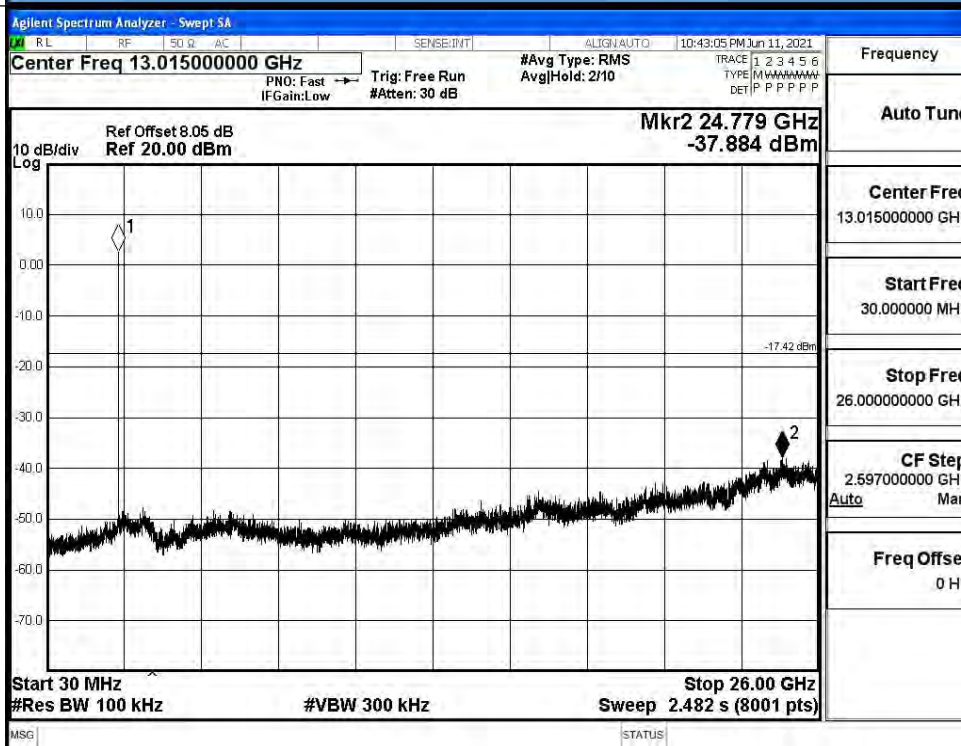


11B MCH Graphs

Pref/11B/MCH

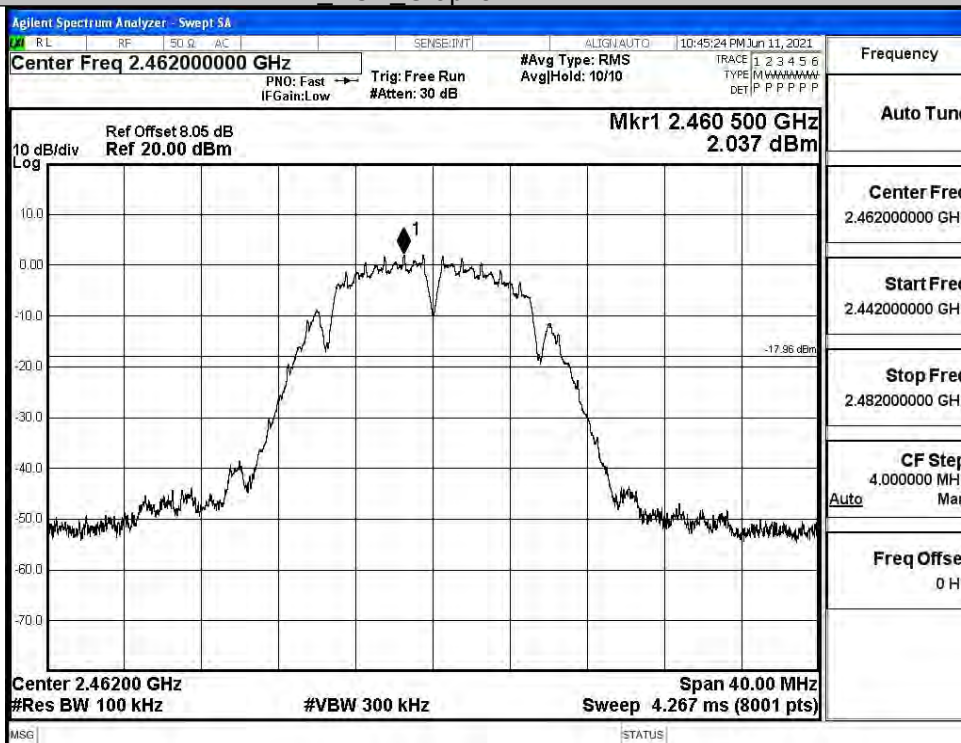


Puw/11B/MCH

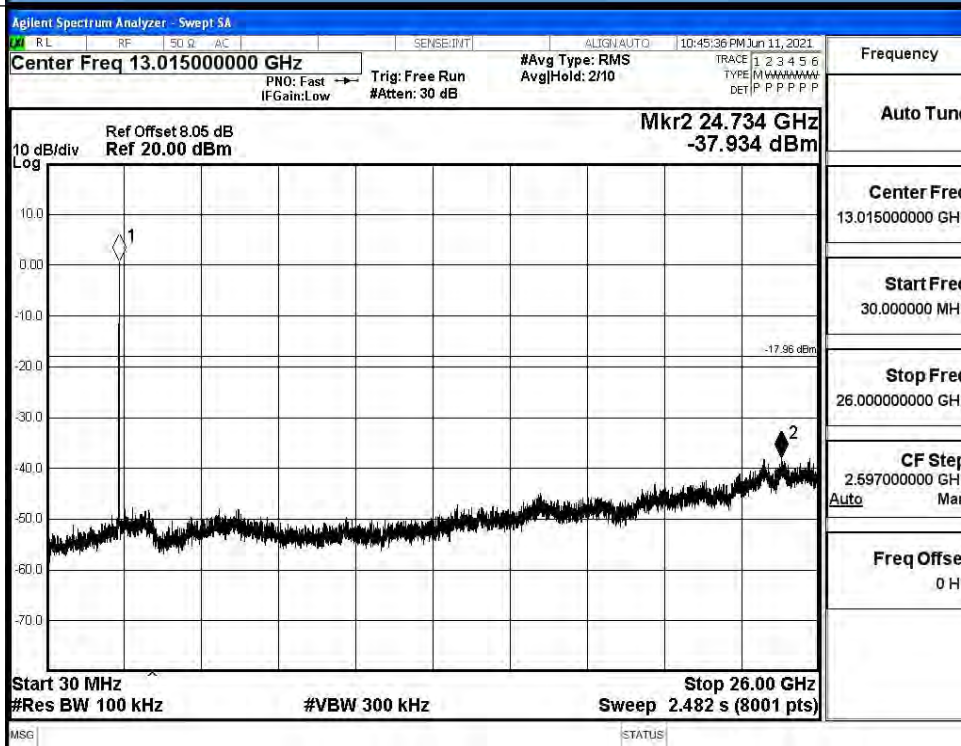


11B HCH Graphs

Pref/11B/HCH

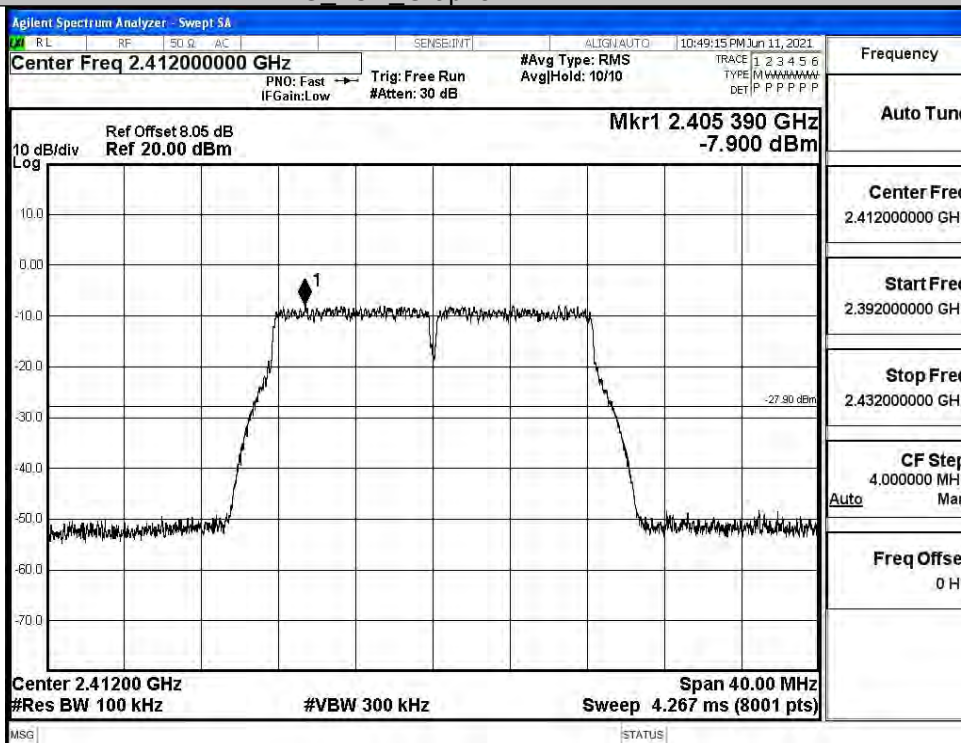


Puw/11B/HCH

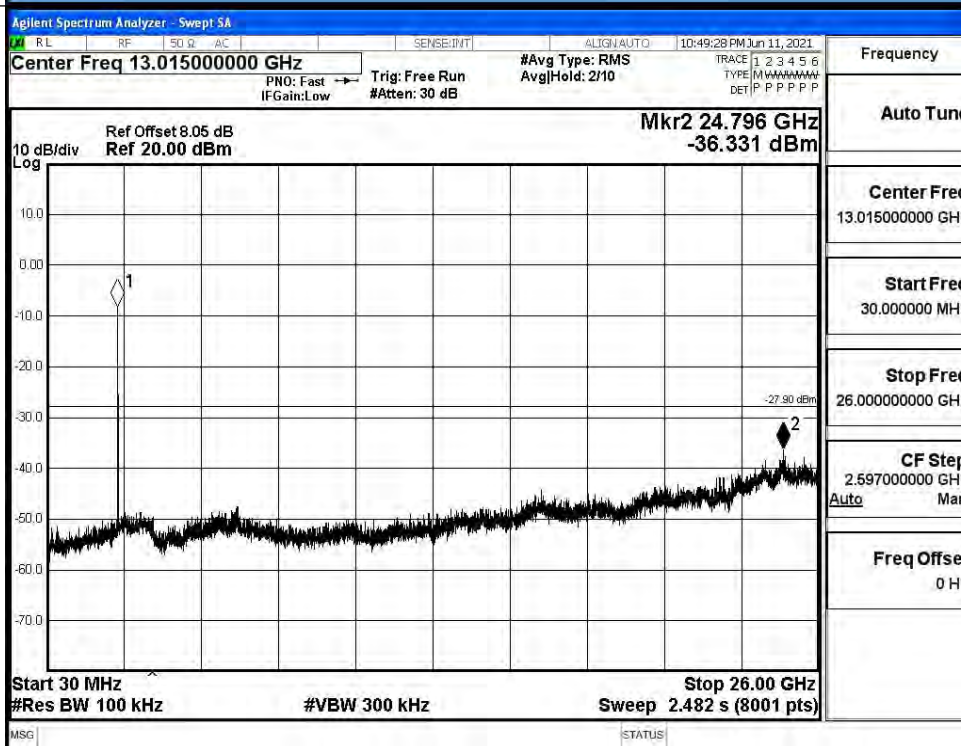


11G LCH Graphs

Pref/11G/LCH

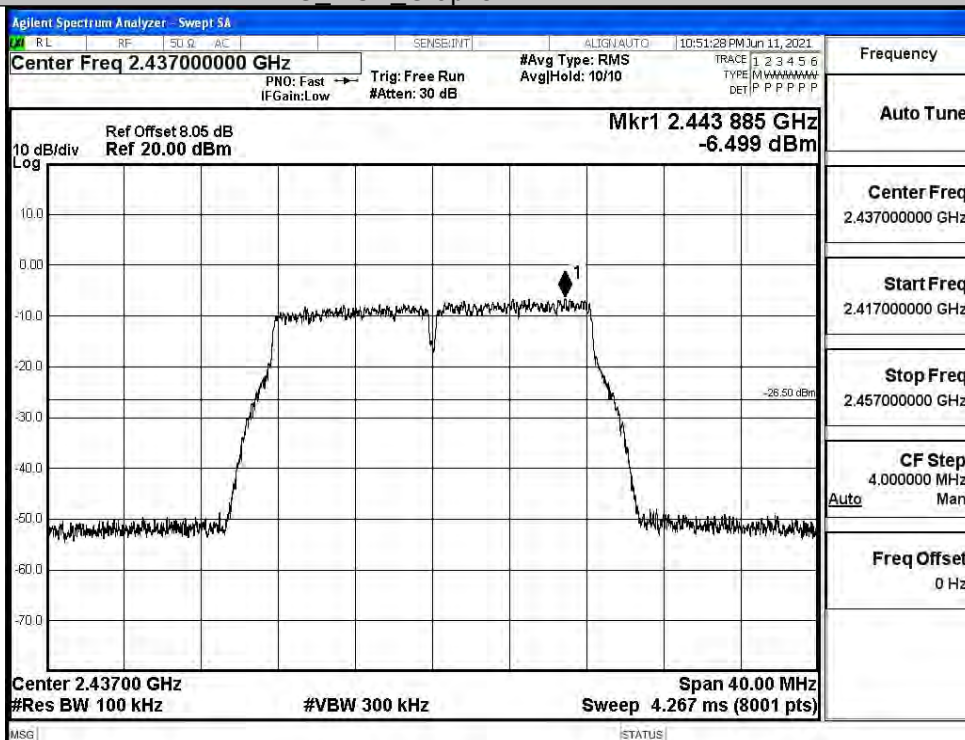


Puw/11G/LCH

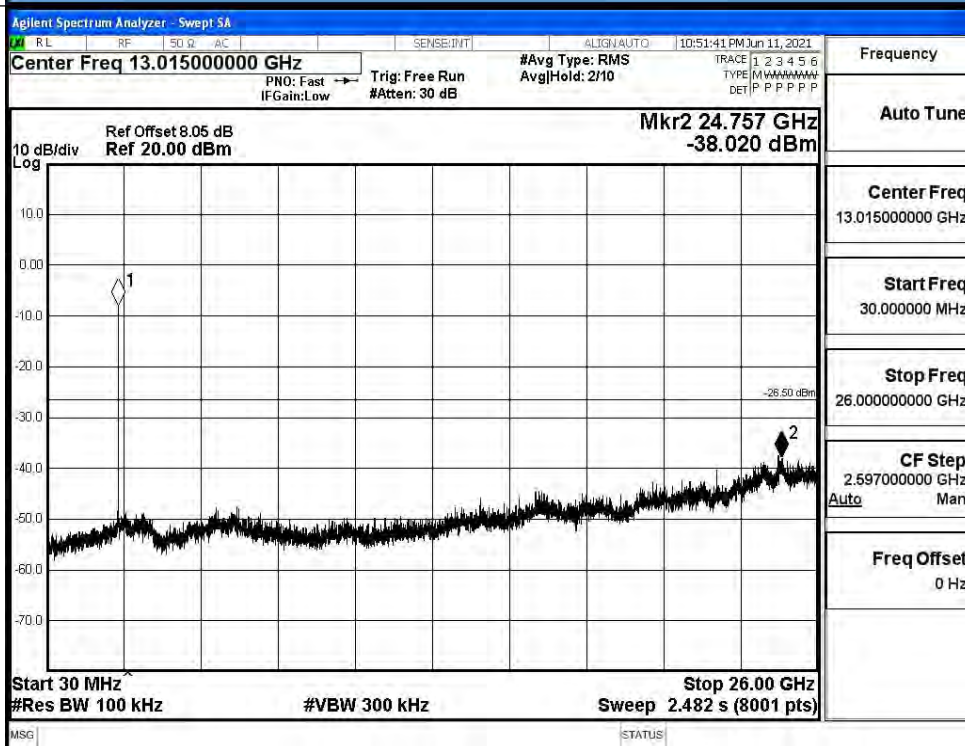


11G MCH Graphs

Pref/11G/MCH

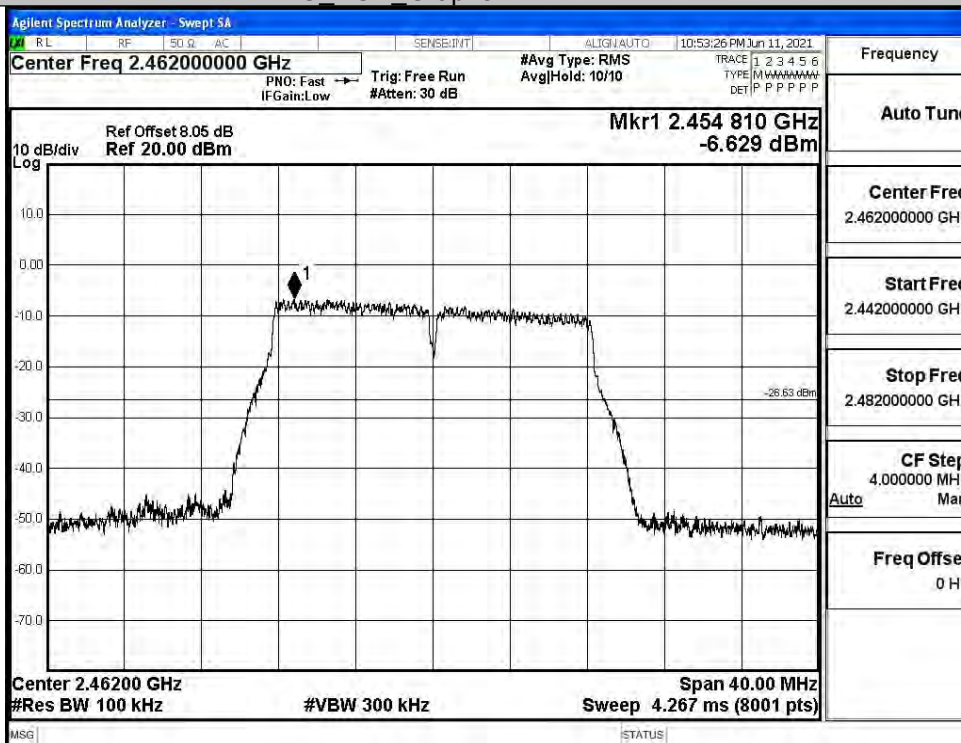


Puw/11G/MCH

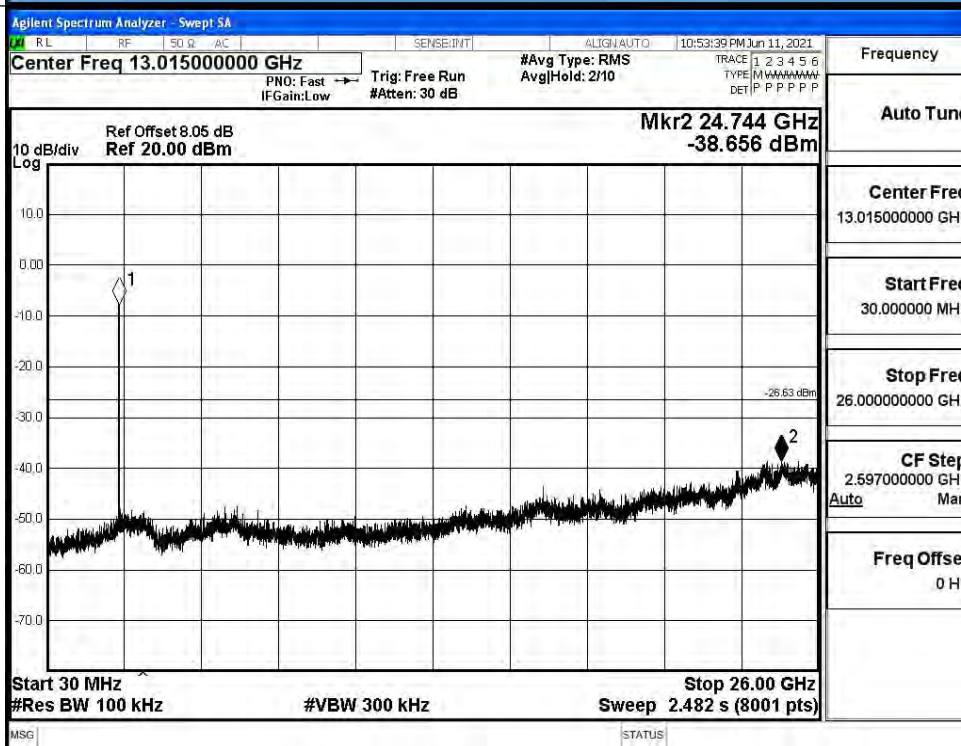


11G HCH Graphs

Pref/11G/HCH

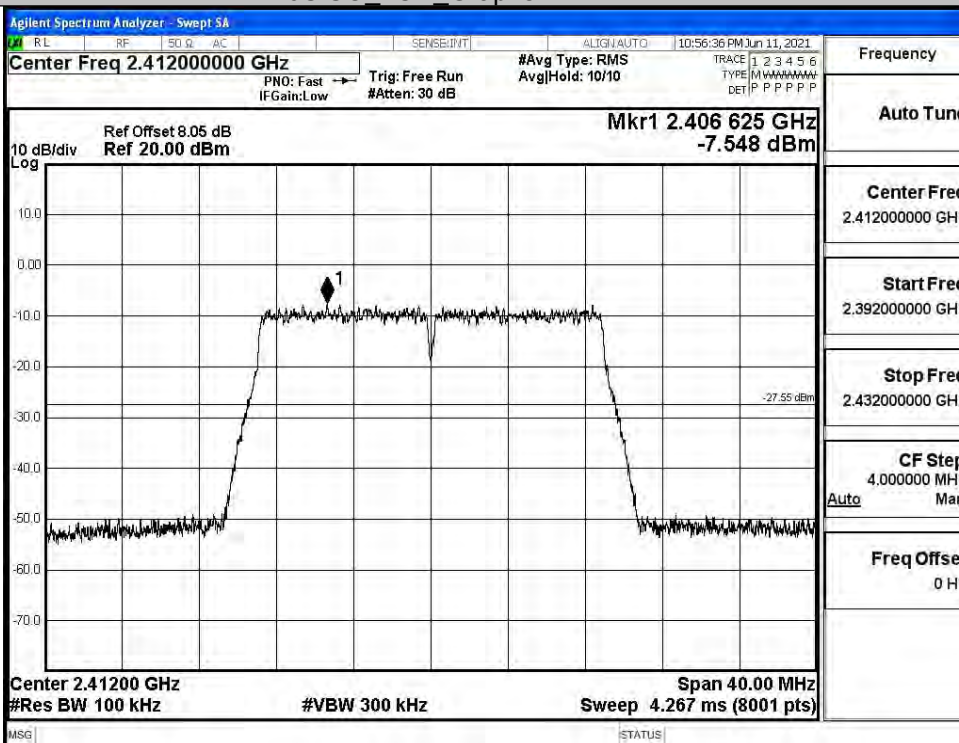


Puw/11G/HCH

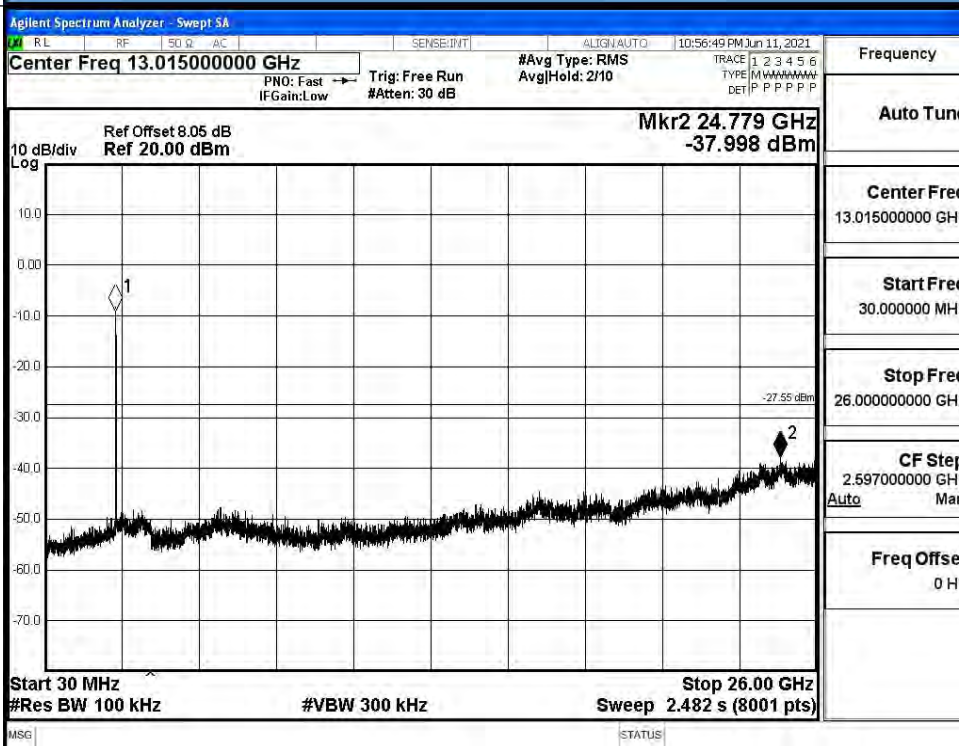


11N20SISO LCH Graphs

Pref/11N20SIS
O/LCH

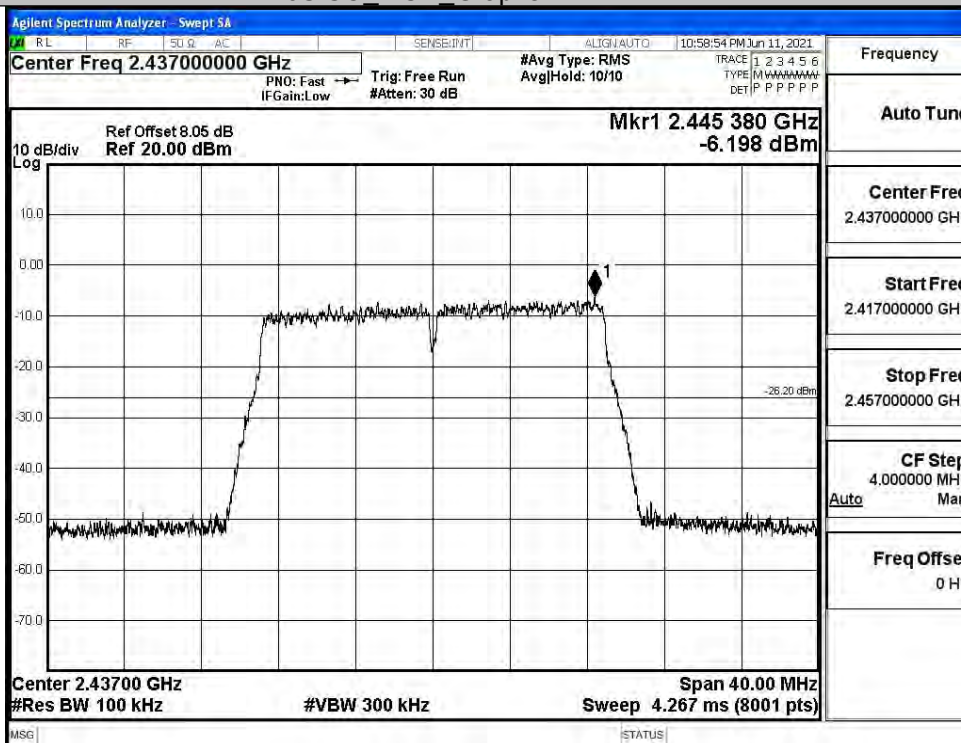


Puw/11N20
SISO/LCH

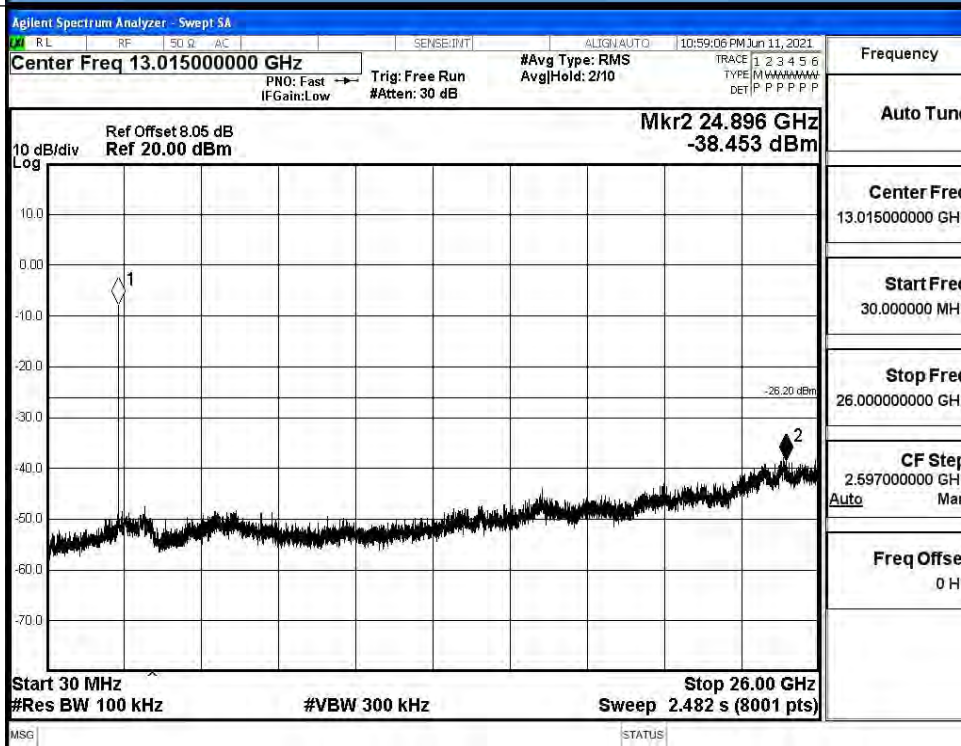


11N20SISO MCH_Graphs

Pref/11N20
SISO/MCH

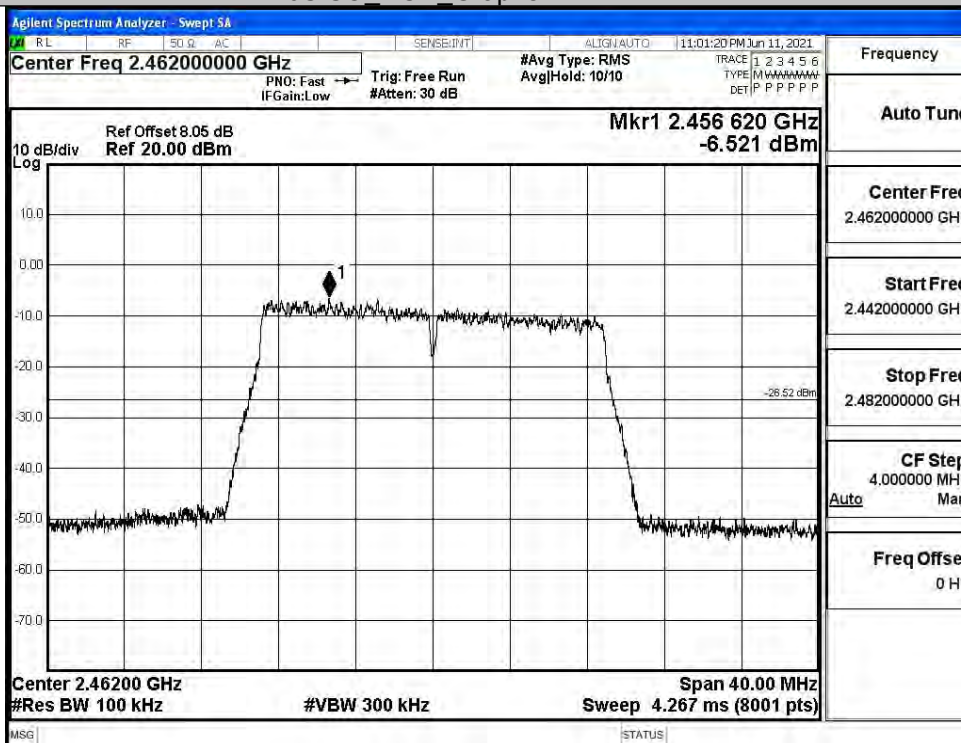


Puw/11N20
SISO/MCH

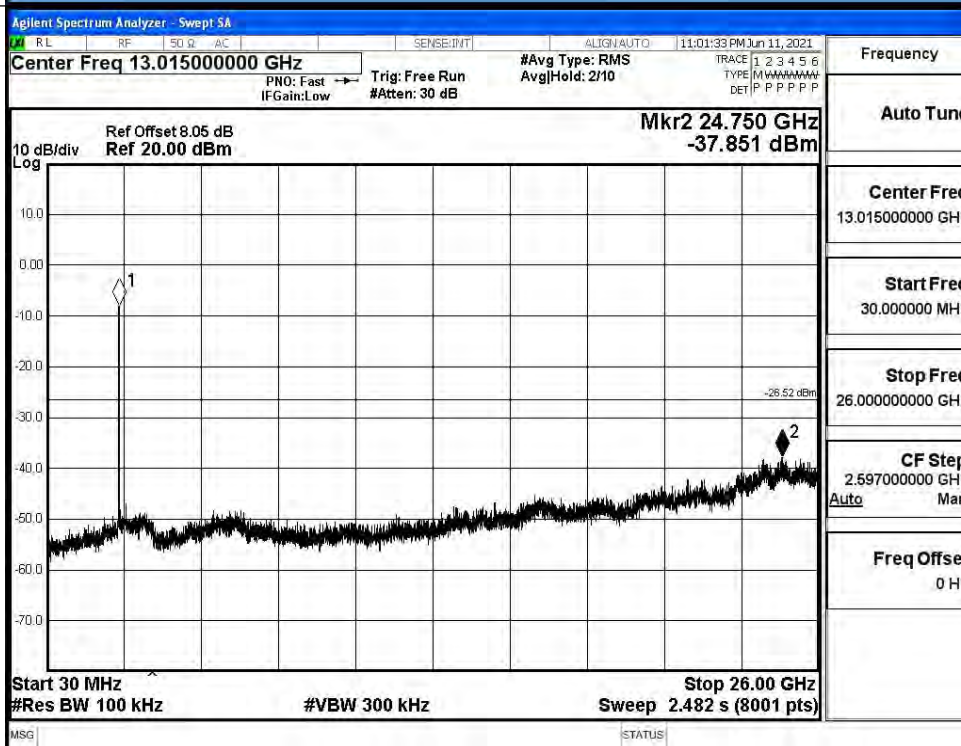


11N20SISO HCH Graphs

Pref/11N20
SISO/HCH

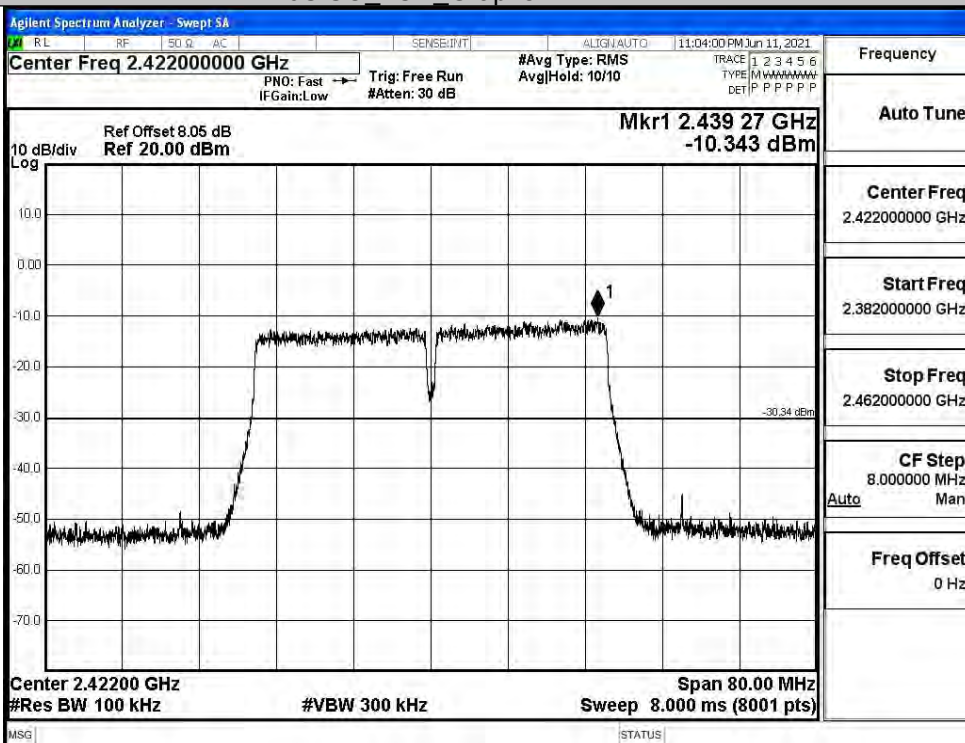


Puw/11N20
SISO/HCH

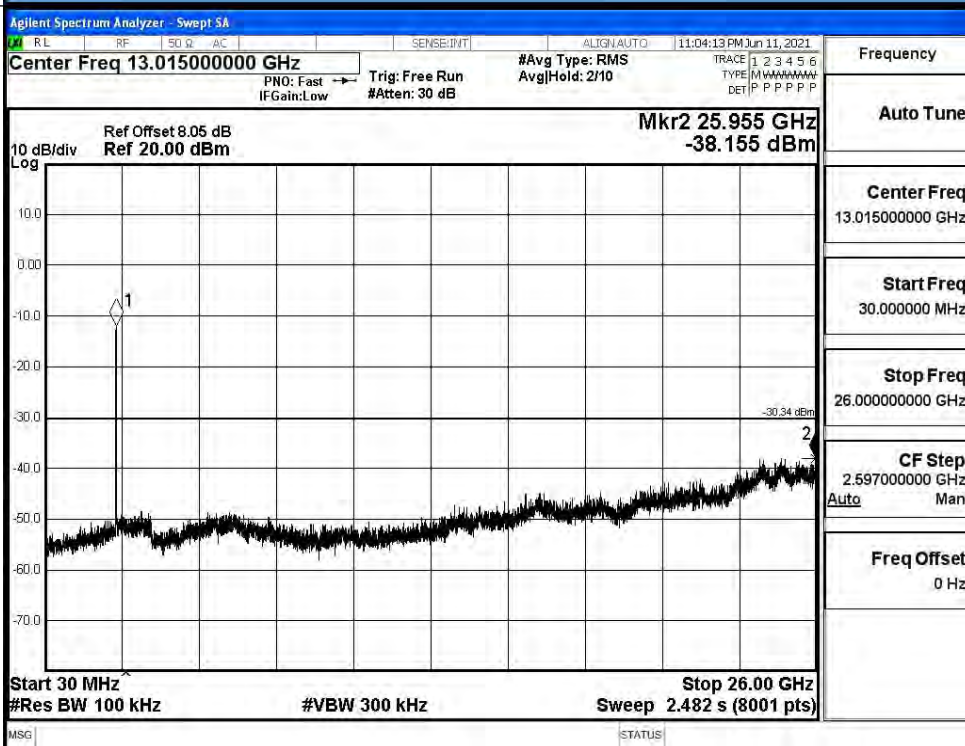


11N40SISO LCH Graphs

Pref/11N40
SISO/LCH

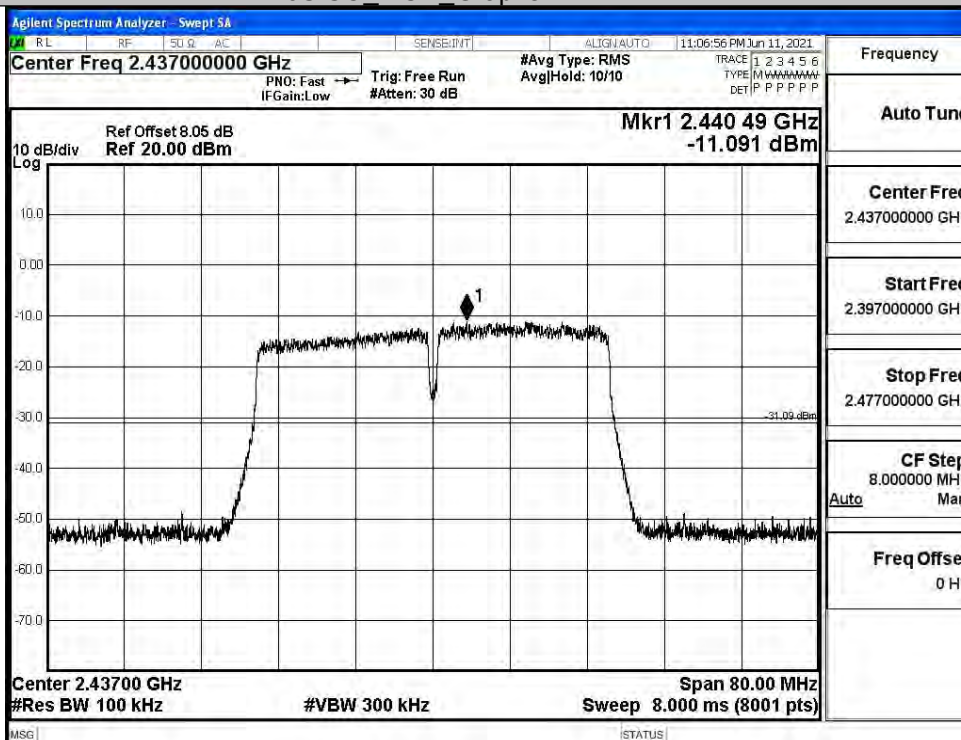


Puw/11N40
SISO/LCH

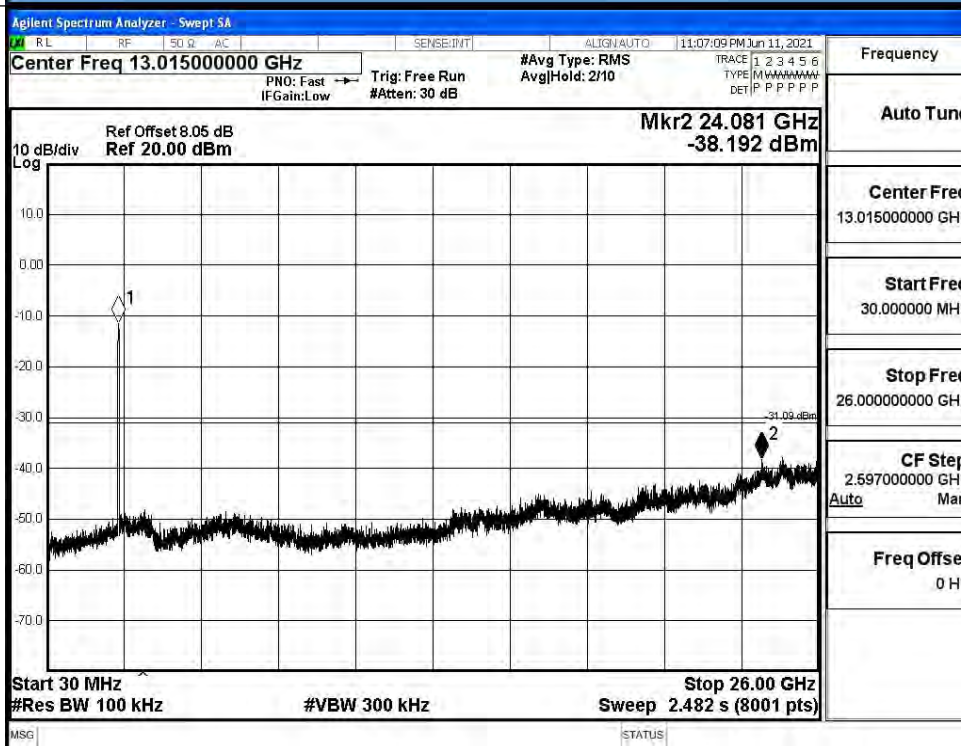


11N40SISO MCH_Graphs

Pref/11N40
SISO/MCH

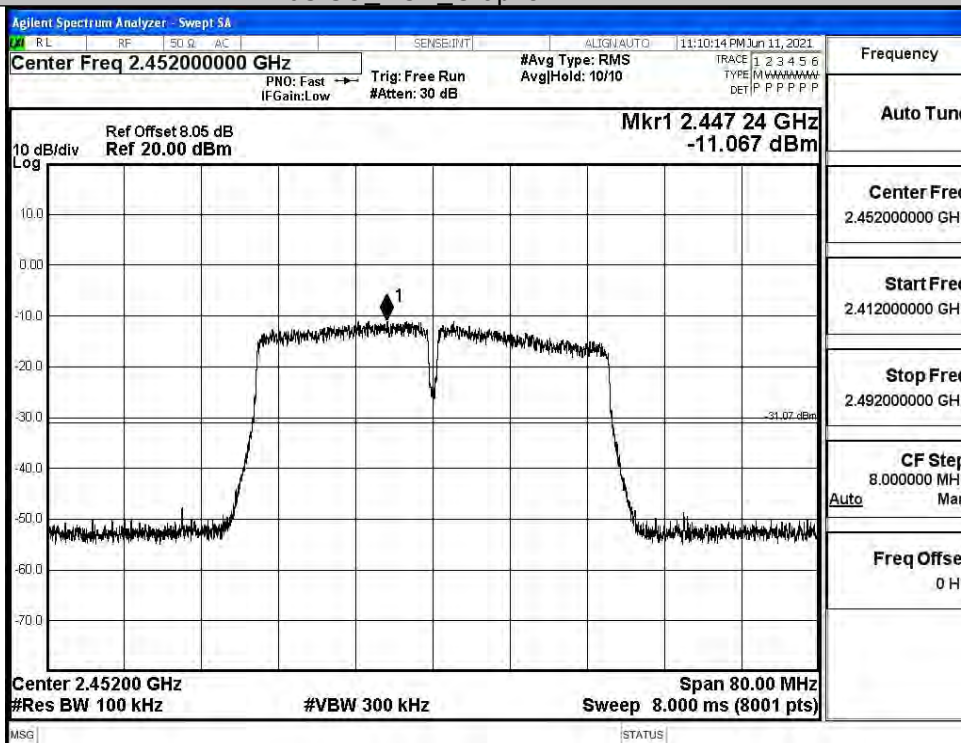


Puw/11N40
SISO/MCH

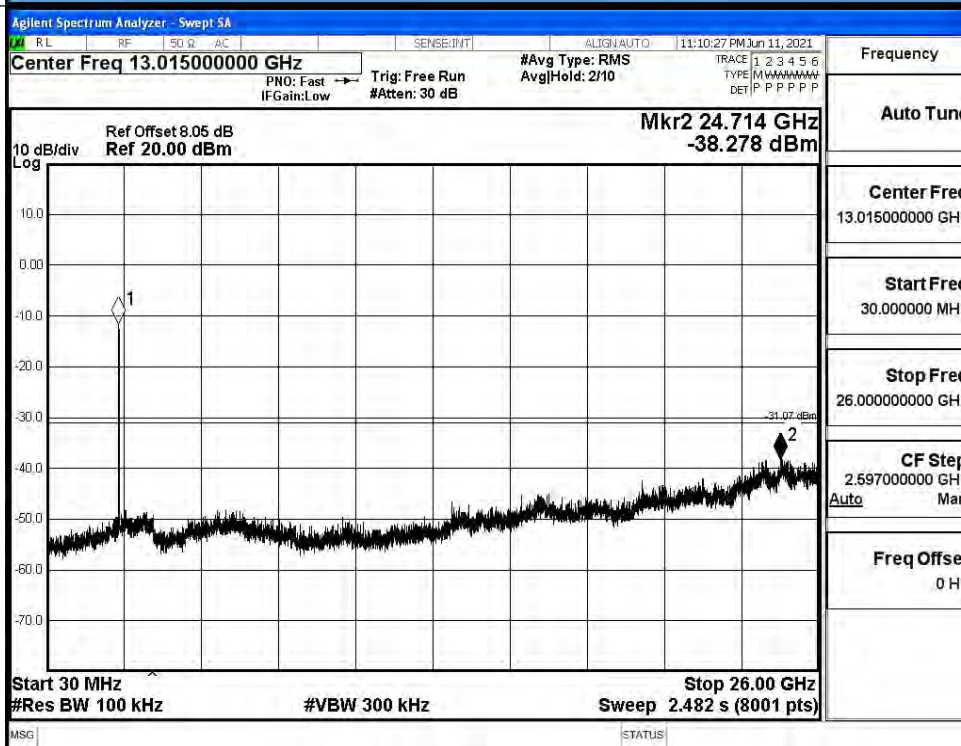


11N40SISO HCH Graphs

Pref/11N40
SISO/HCH



Puw/11N40
SISO/HCH

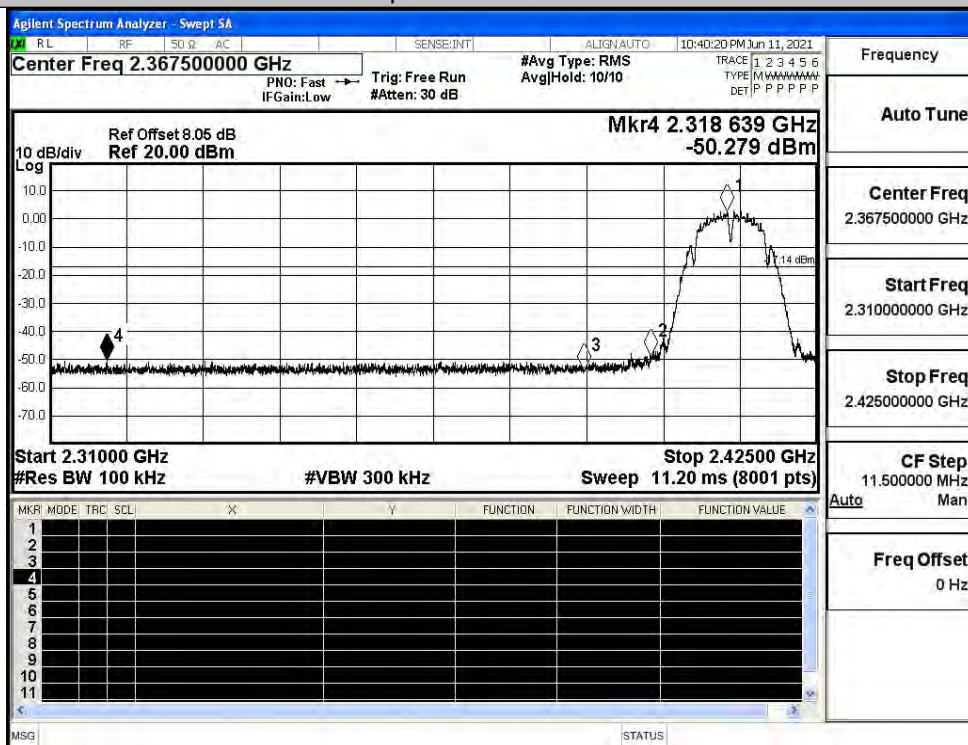


C.6 Band-edge for RF Conducted Emissions

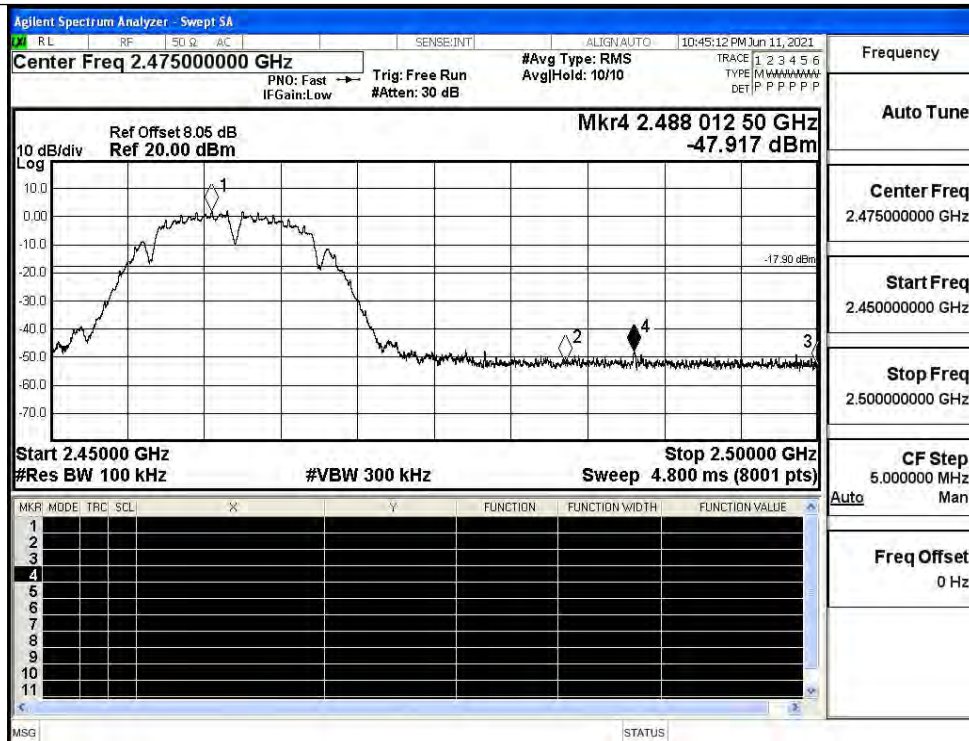
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.858	-50.279	-17.14	PASS
	HCH	2.105	-47.917	-17.9	PASS
11G	LCH	-7.968	-50.393	-27.97	PASS
	HCH	-6.642	-46.826	-26.64	PASS
11N20SISO	LCH	-7.304	-49.993	-27.3	PASS
	HCH	-6.522	-46.985	-26.52	PASS
11N40SISO	LCH	-10.687	-50.320	-30.69	PASS
	HCH	-10.801	-49.823	-30.8	PASS

Test Graphs

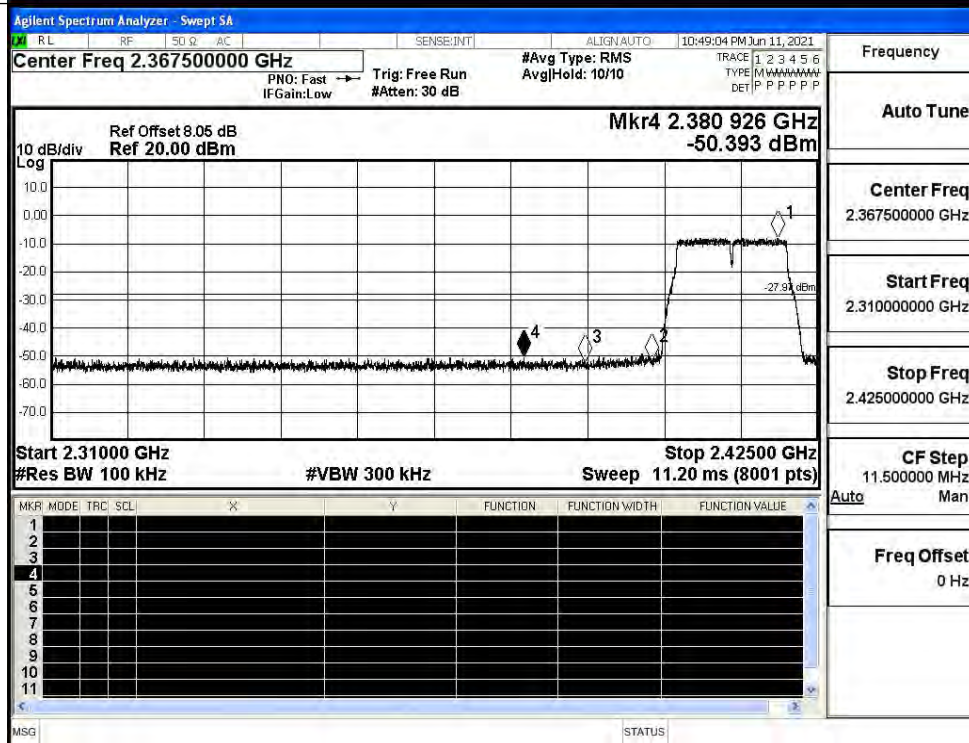
11B/LCH



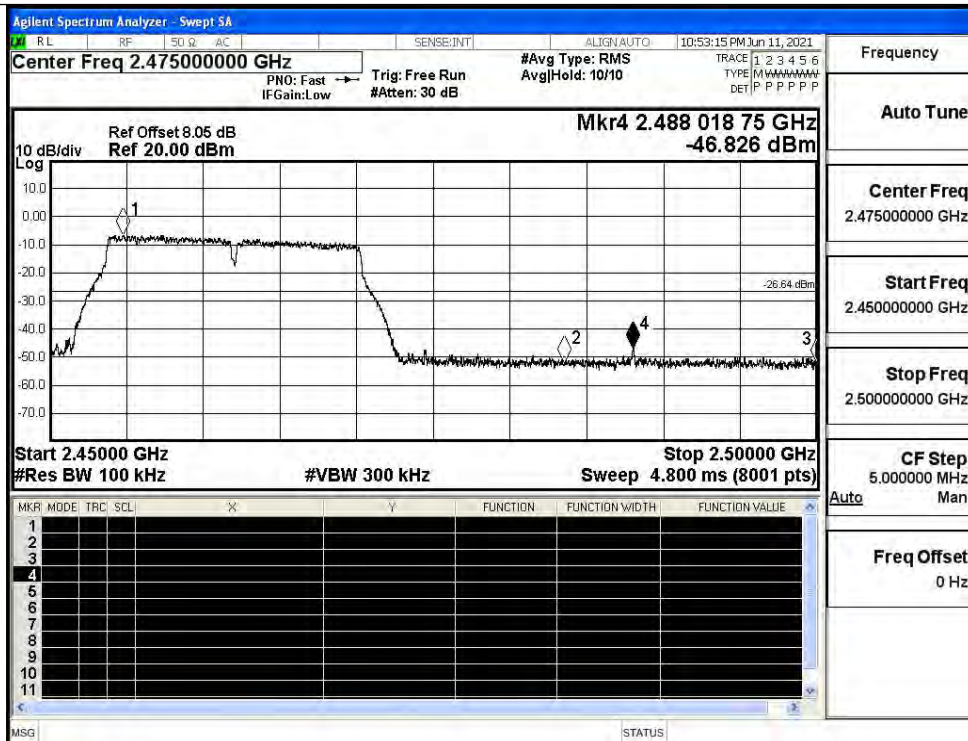
11B/HCH



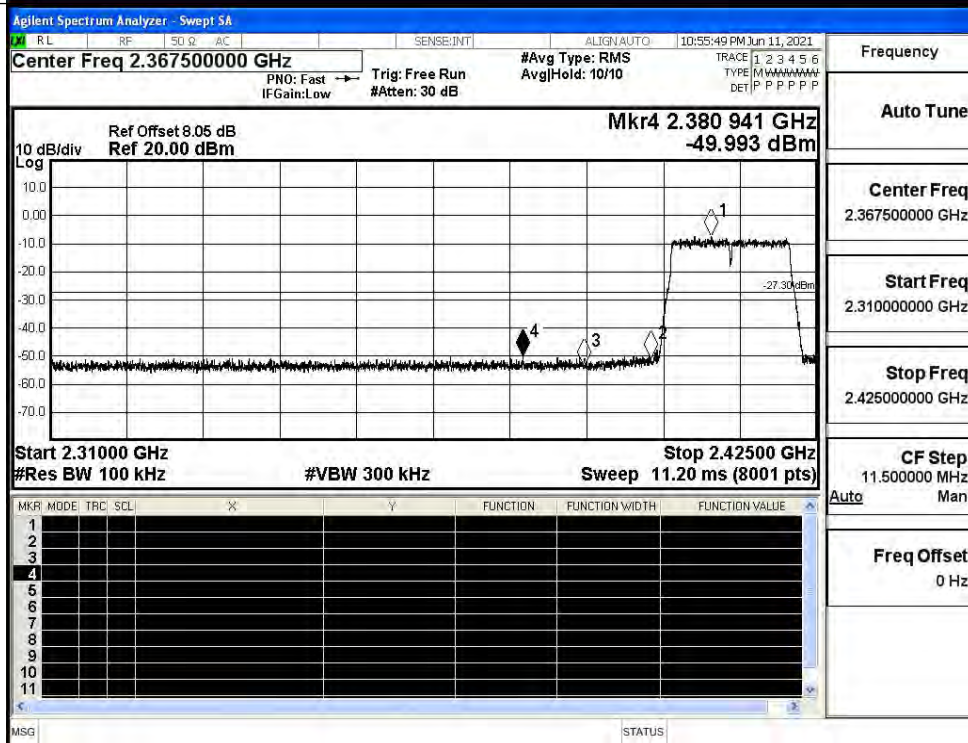
11G/LCH



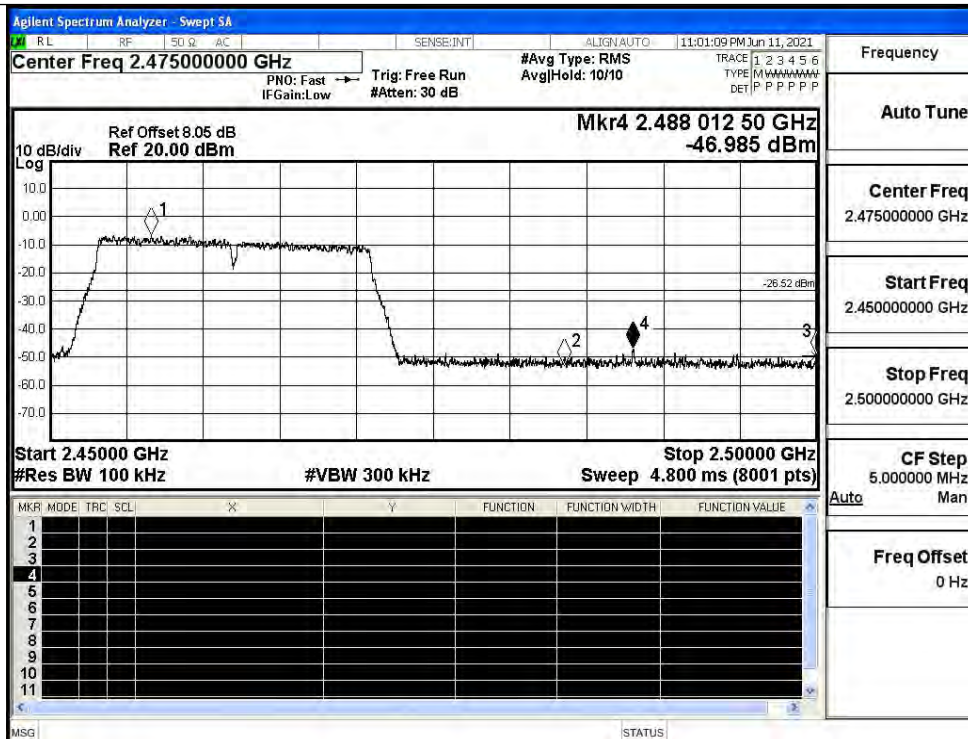
11G/HCH



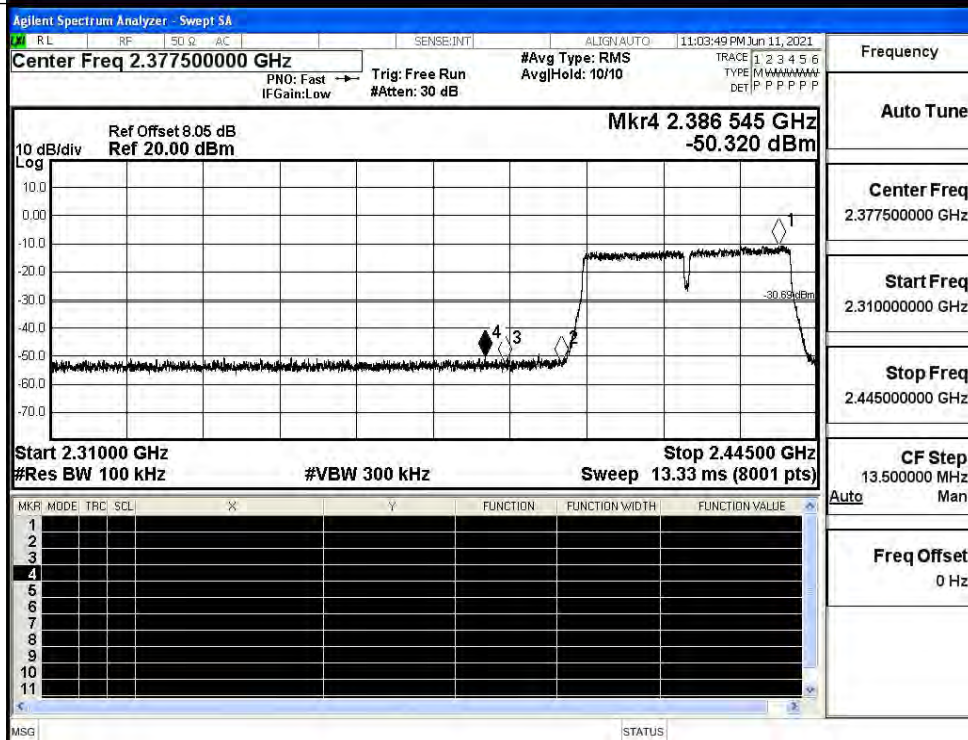
11N20SISO/LCH



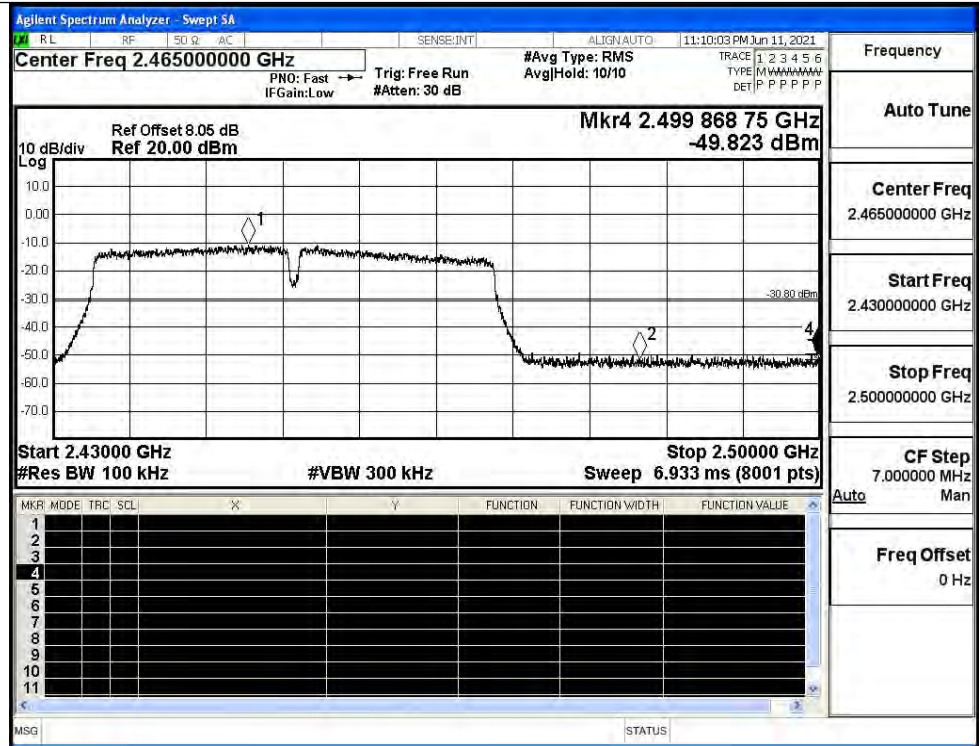
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH

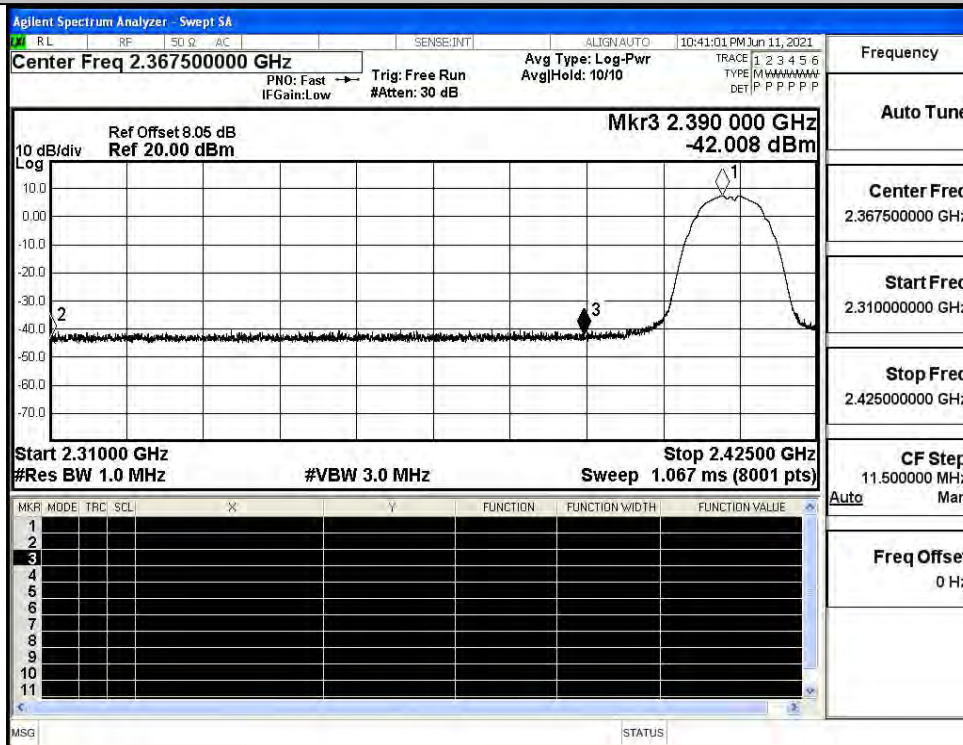


C.7 Restrict-band band-edge measurements

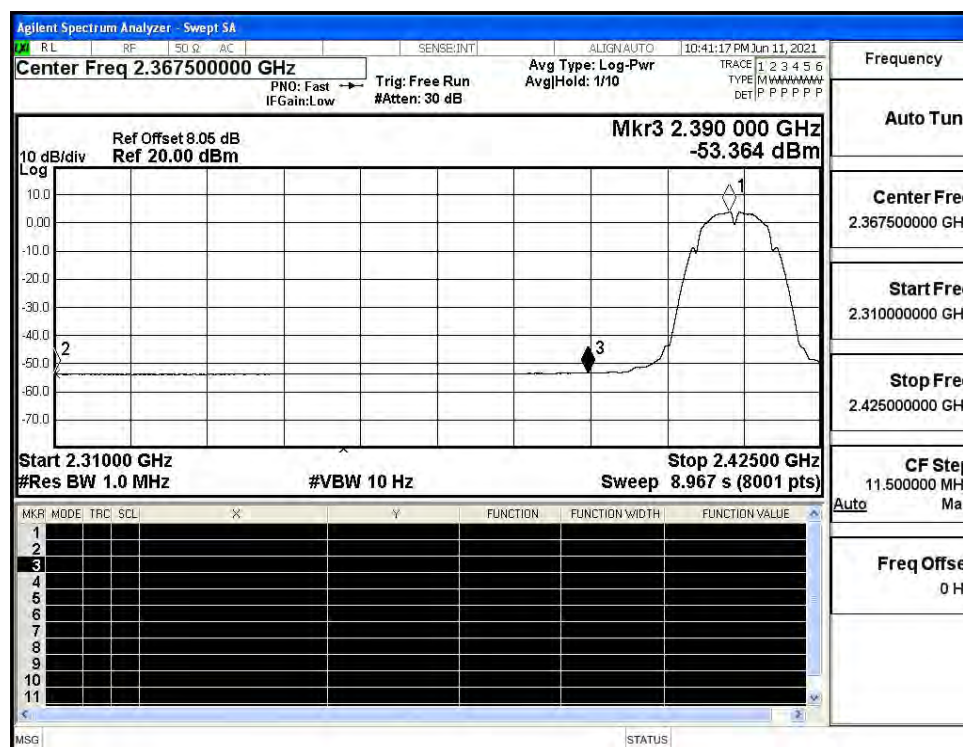
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
11B	2412	Ant1	2310.0	-43.84	2.0	0	53.39	PEAK	74	PASS
	2412	Ant1	2310.0	-53.79	2.0	0	43.44	AV	54	PASS
	2412	Ant1	2390.0	-42.01	2.0	0	55.22	PEAK	74	PASS
	2412	Ant1	2390.0	-53.36	2.0	0	43.87	AV	54	PASS
	2462	Ant1	2483.5	-42.74	2.0	0	54.49	PEAK	74	PASS
	2462	Ant1	2483.5	-52.55	2.0	0	44.68	AV	54	PASS
	2462	Ant1	2500.0	-41.56	2.0	0	55.67	PEAK	74	PASS
	2462	Ant1	2500.0	-52.81	2.0	0	44.42	AV	54	PASS
11G	2412	Ant1	2310.0	-42.03	2.0	0	55.20	PEAK	74	PASS
	2412	Ant1	2310.0	-53.79	2.0	0	43.44	AV	54	PASS
	2412	Ant1	2390.0	-41.05	2.0	0	56.18	PEAK	74	PASS
	2412	Ant1	2390.0	-53.35	2.0	0	43.88	AV	54	PASS
	2462	Ant1	2483.5	-42.40	2.0	0	54.83	PEAK	74	PASS
	2462	Ant1	2483.5	-52.29	2.0	0	44.94	AV	54	PASS
	2462	Ant1	2500.0	-43.43	2.0	0	53.80	PEAK	74	PASS
	2462	Ant1	2500.0	-52.81	2.0	0	44.42	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.87	2.0	0	54.36	PEAK	74	PASS
	2412	Ant1	2310.0	-53.79	2.0	0	43.44	AV	54	PASS
	2412	Ant1	2390.0	-43.09	2.0	0	54.14	PEAK	74	PASS
	2412	Ant1	2390.0	-53.30	2.0	0	43.93	AV	54	PASS
	2462	Ant1	2483.5	-42.41	2.0	0	54.82	PEAK	74	PASS
	2462	Ant1	2483.5	-52.24	2.0	0	44.99	AV	54	PASS
	2462	Ant1	2500.0	-42.97	2.0	0	54.26	PEAK	74	PASS
	2462	Ant1	2500.0	-52.81	2.0	0	54.11	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.12	2.0	0	43.44	PEAK	74	PASS
	2422	Ant1	2310.0	-53.79	2.0	0	54.52	AV	54	PASS

	2422	Ant1	2390.0	-42.71	2.0	0	43.87	PEAK	74	PASS
	2422	Ant1	2390.0	-53.36	2.0	0	54.54	AV	54	PASS
	2452	Ant1	2483.5	-42.69	2.0	0	44.59	PEAK	74	PASS
	2452	Ant1	2483.5	-52.64	2.0	0	55.52	AV	54	PASS
	2452	Ant1	2500.0	-41.71	2.0	0	44.46	PEAK	74	PASS
	2452	Ant1	2500.0	-52.77	2.0	0	54.11	AV	54	PASS

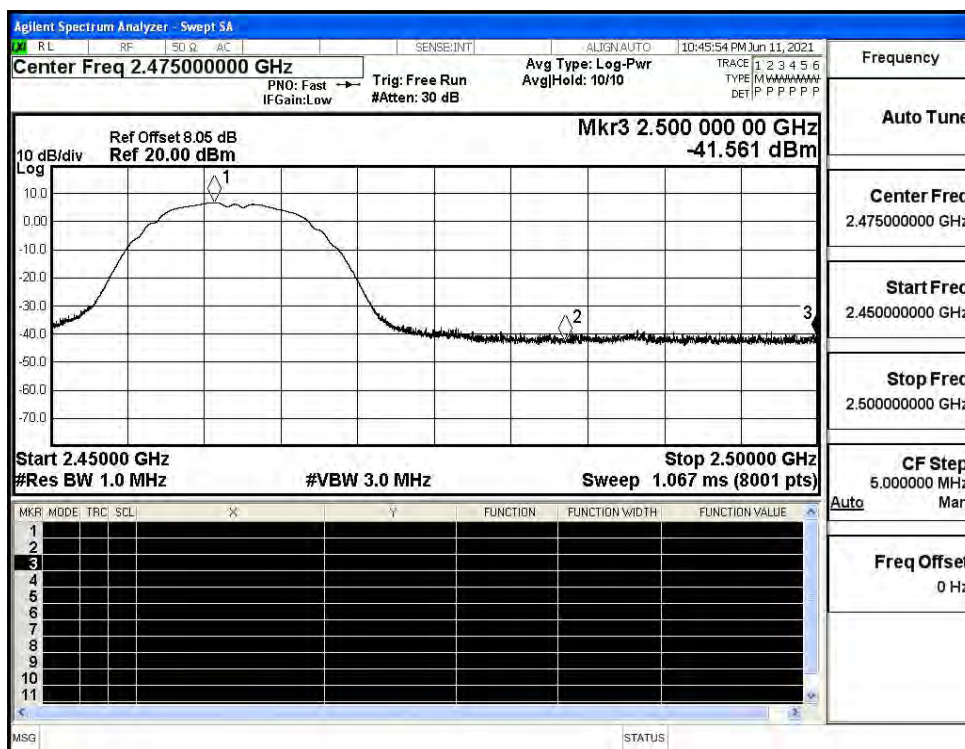
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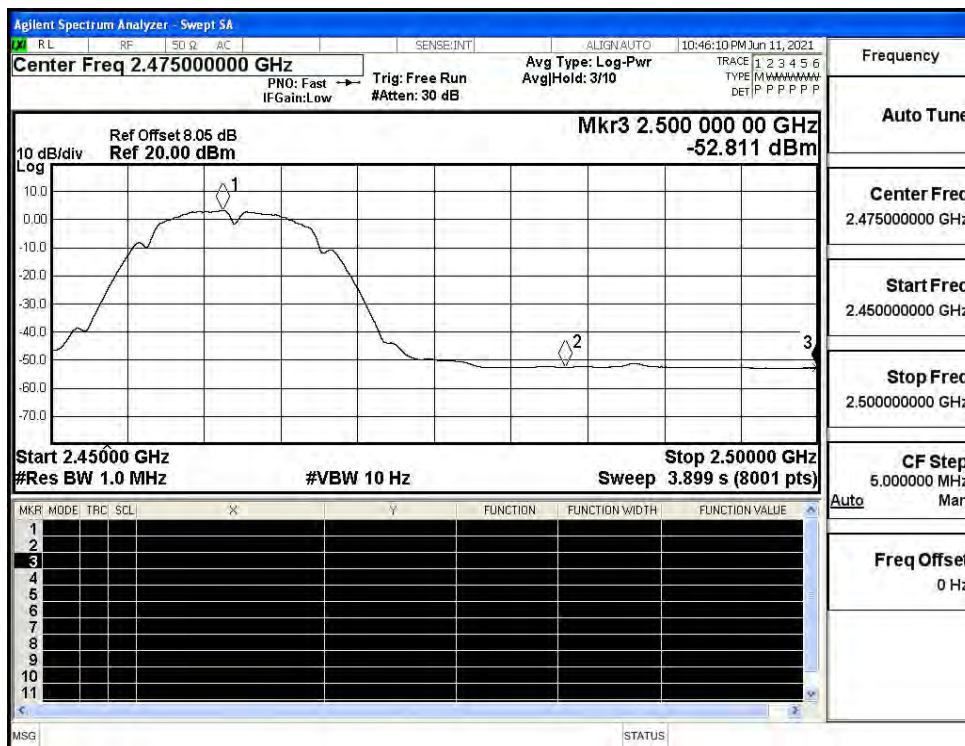
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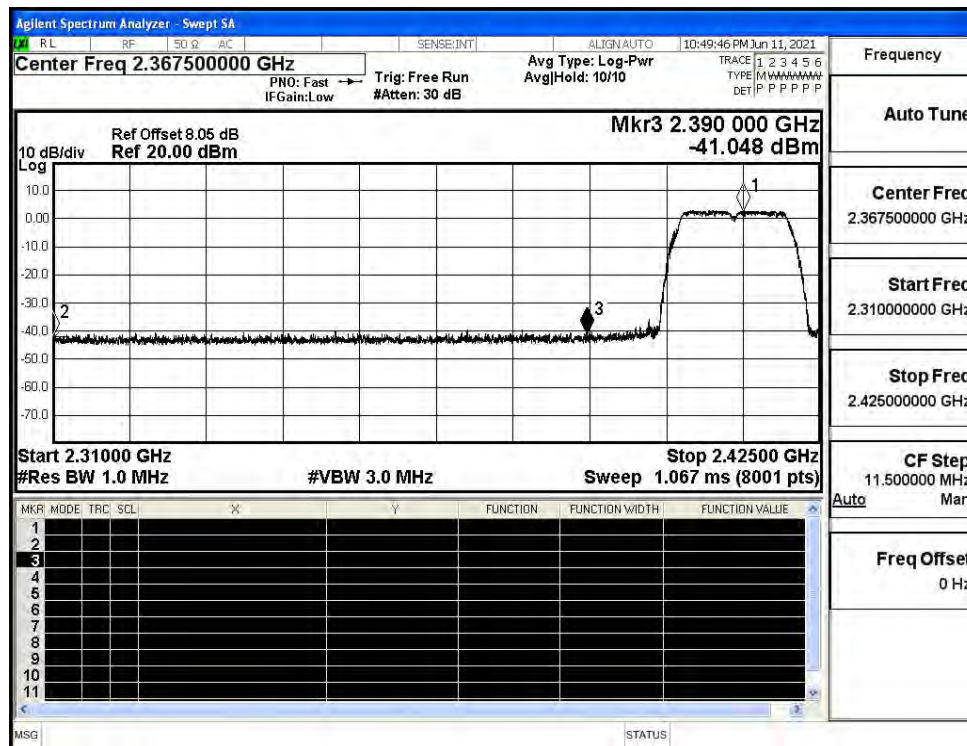
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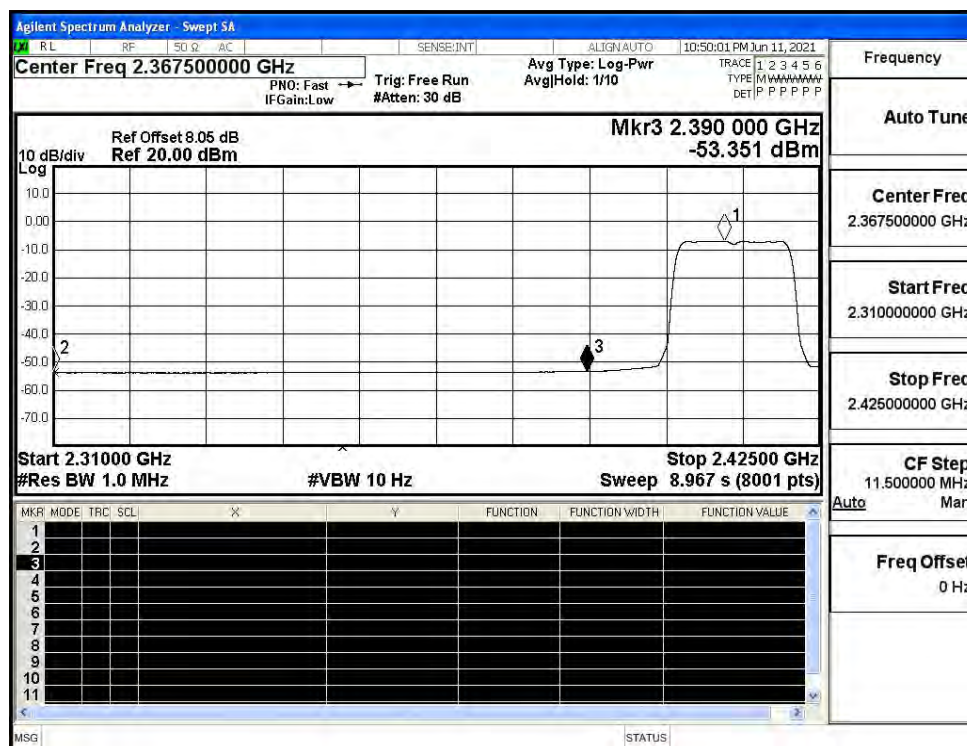
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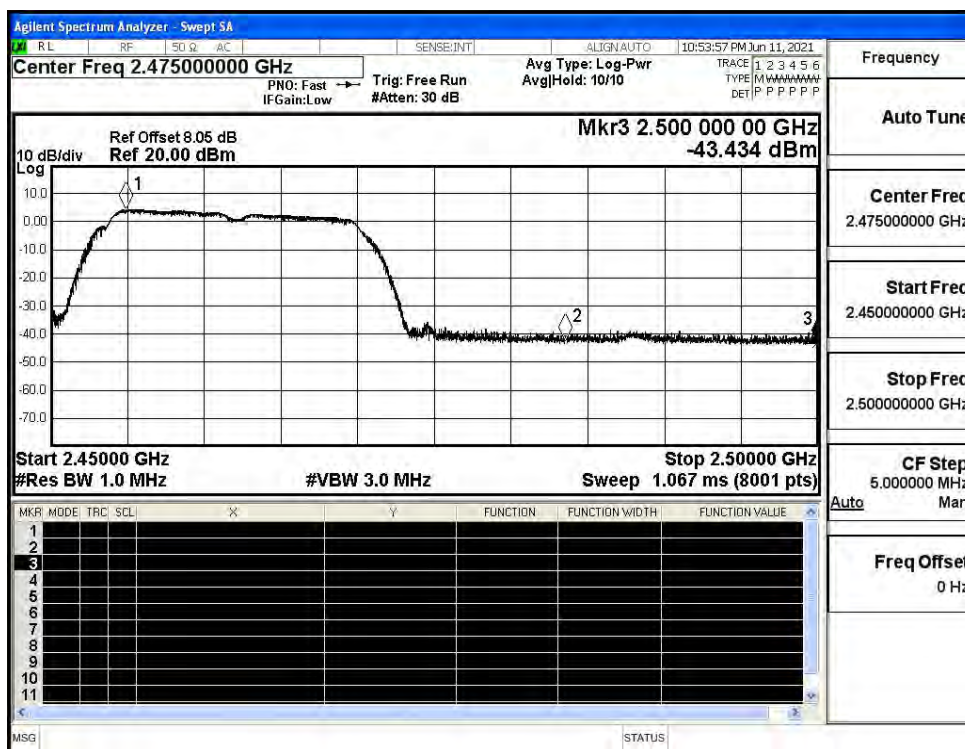
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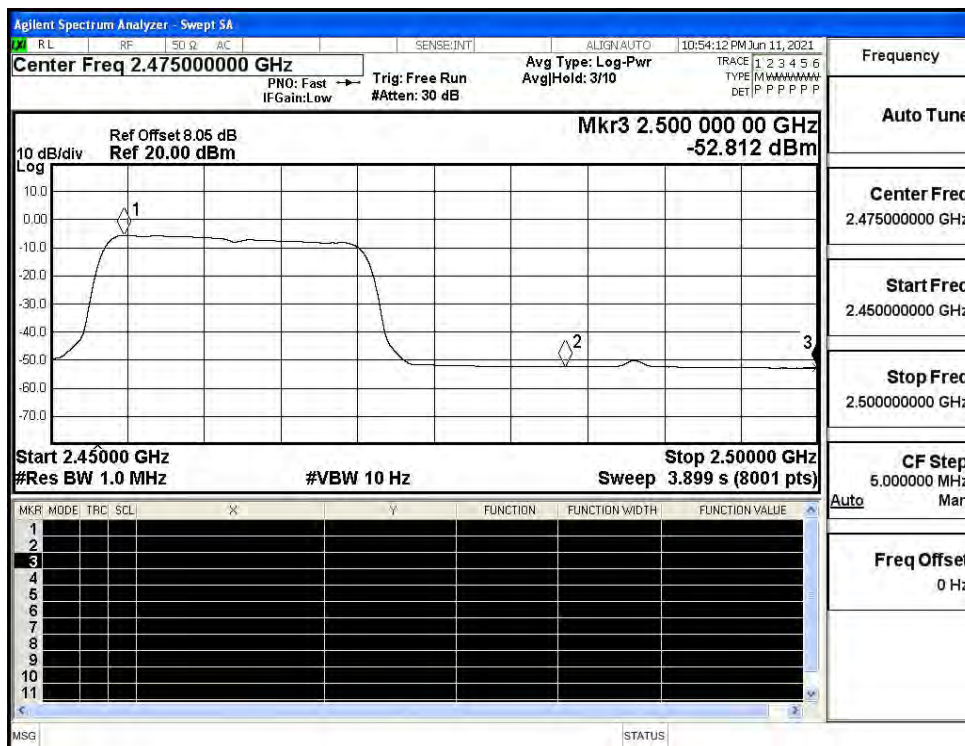
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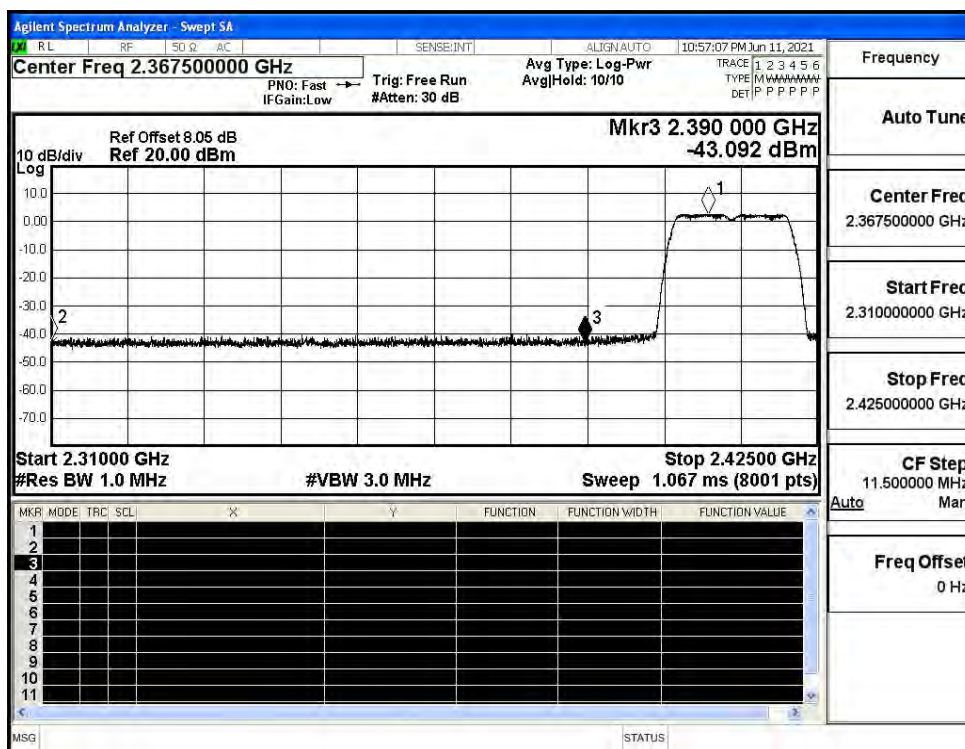
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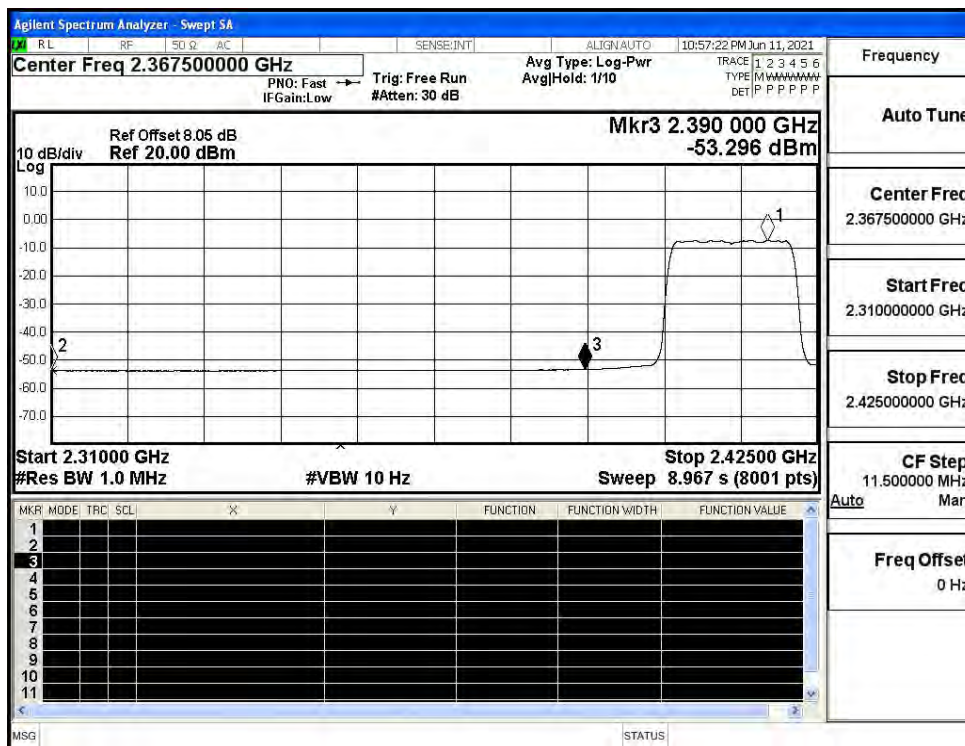
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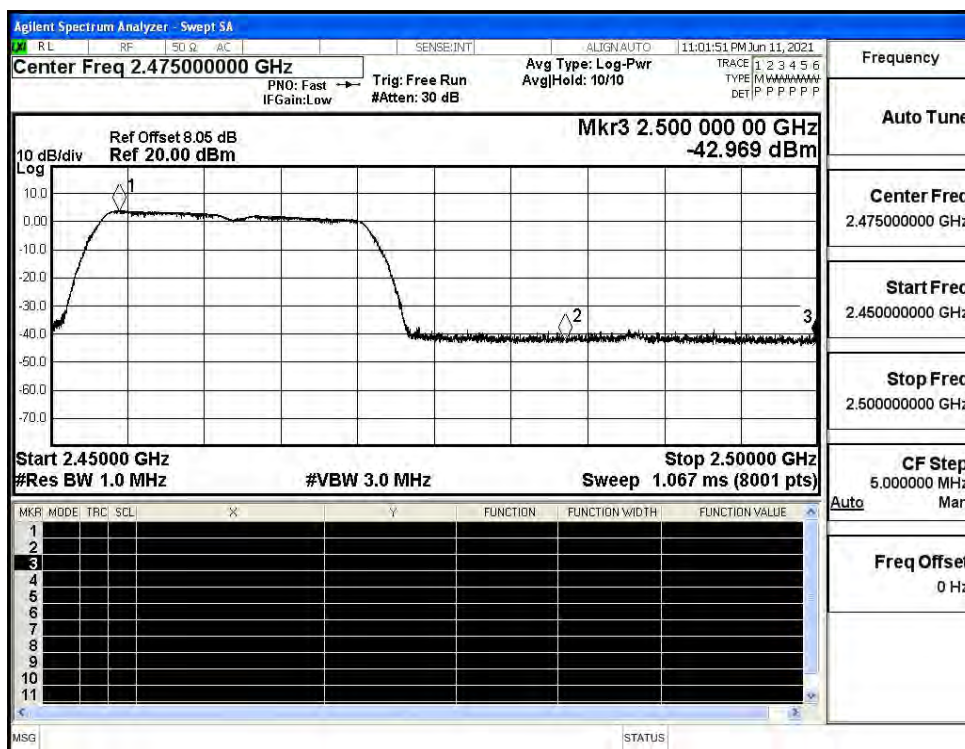
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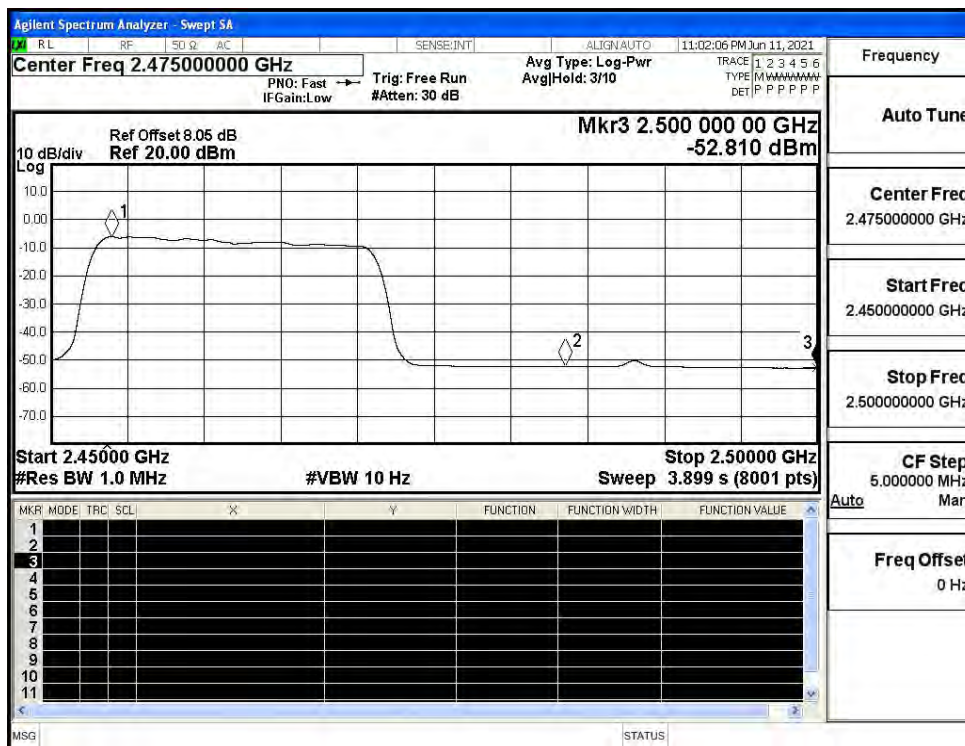
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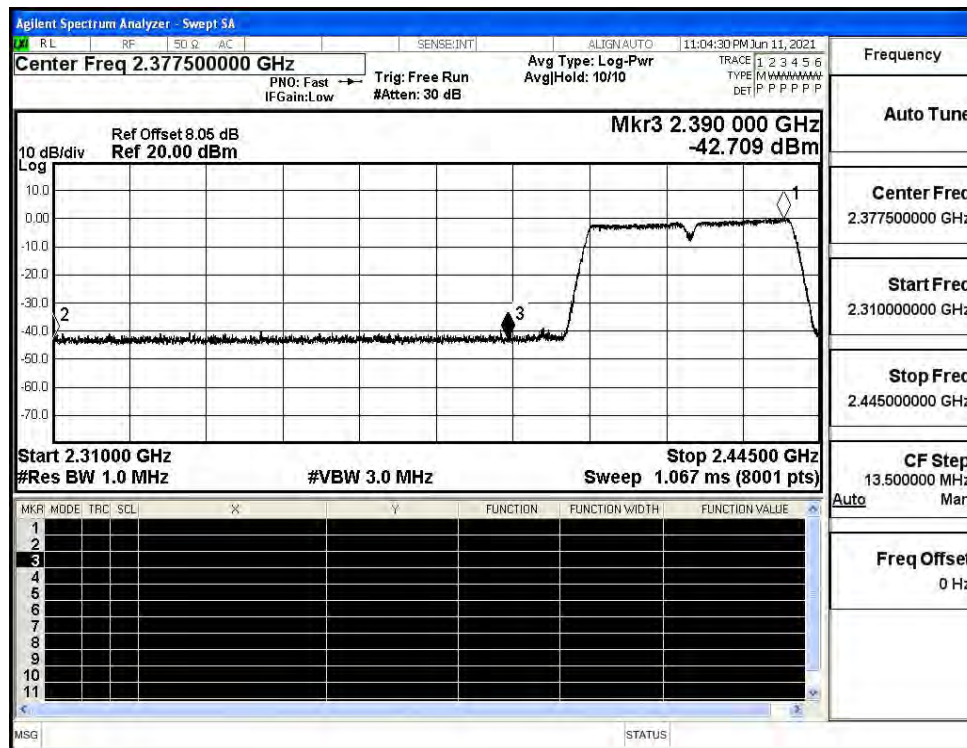
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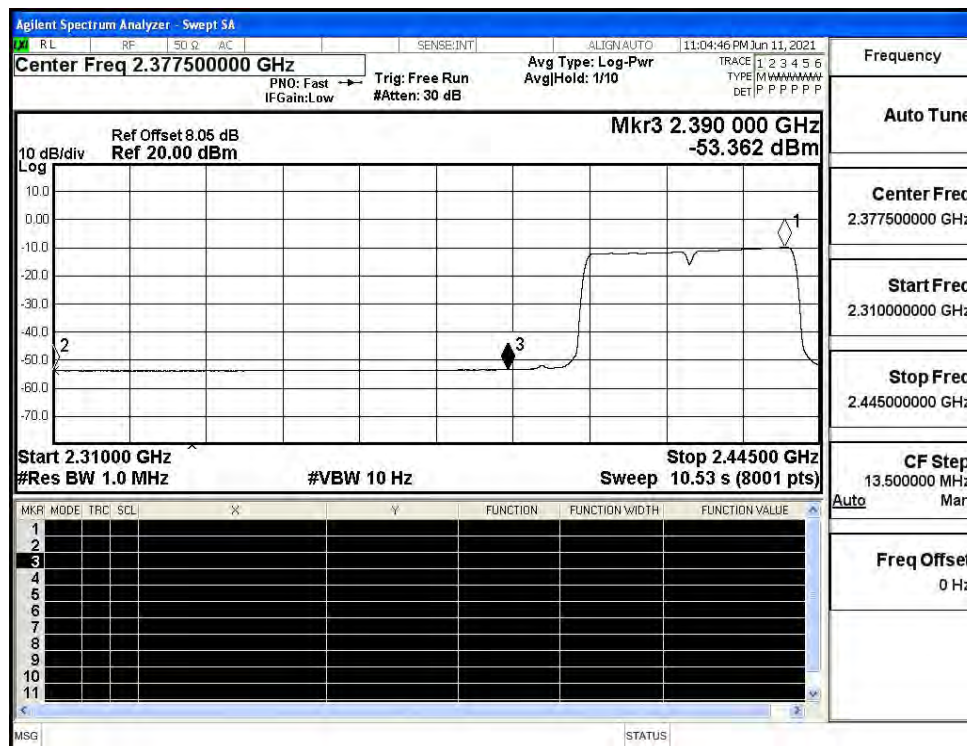
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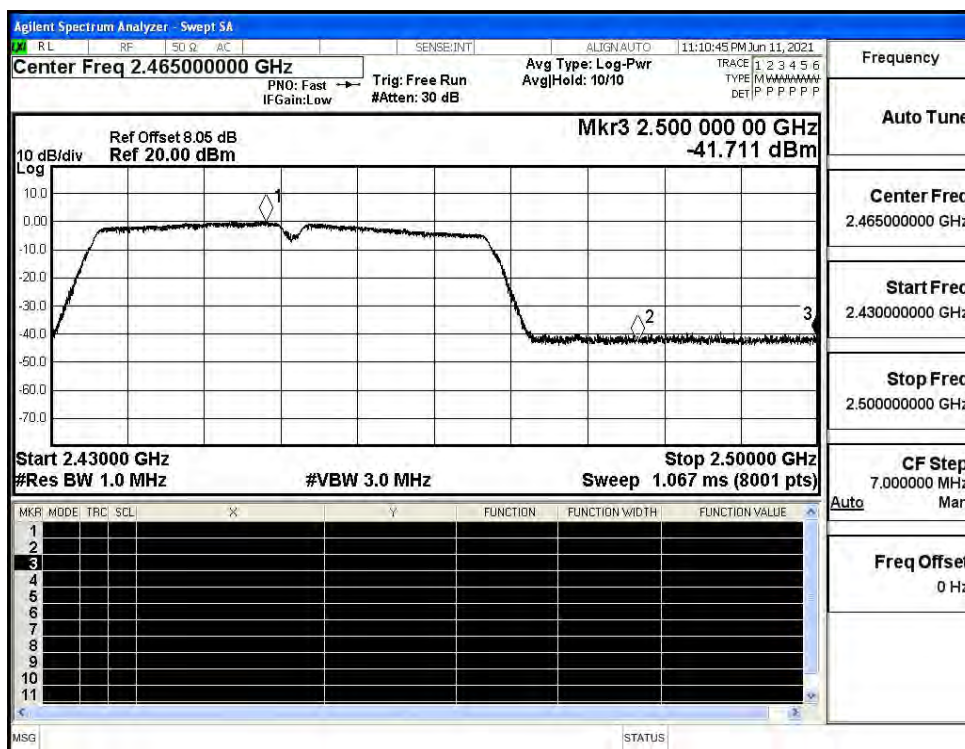
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Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

