

## Appendix A

### RF Test Data for 2.4G WIFI (Conducted Measurement)

**Product Name: WiFi IP CAMERA**

**Trade Mark: SECULINK**

**Test Model: C8**

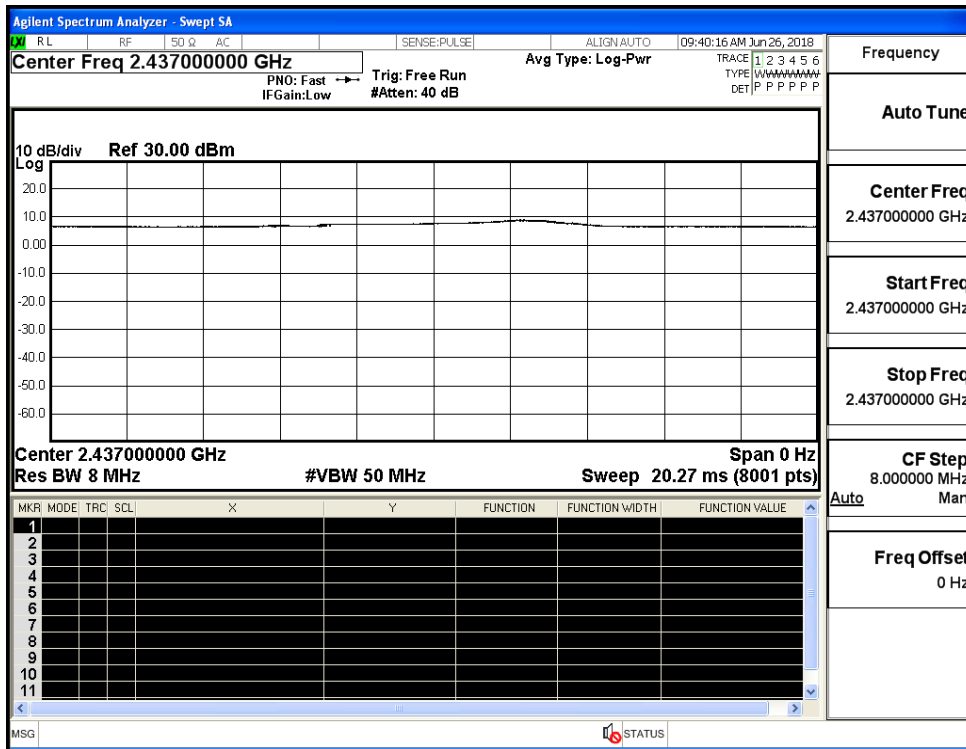
#### Environmental Conditions

Temperature:	23.4 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

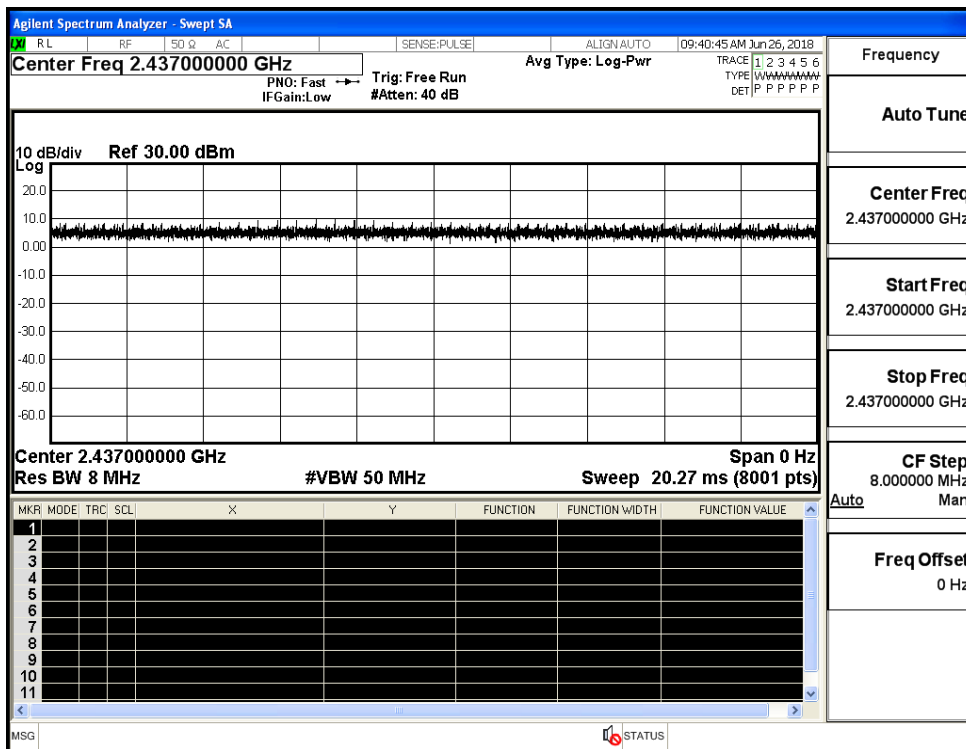
#### A.1 Duty Cycle

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

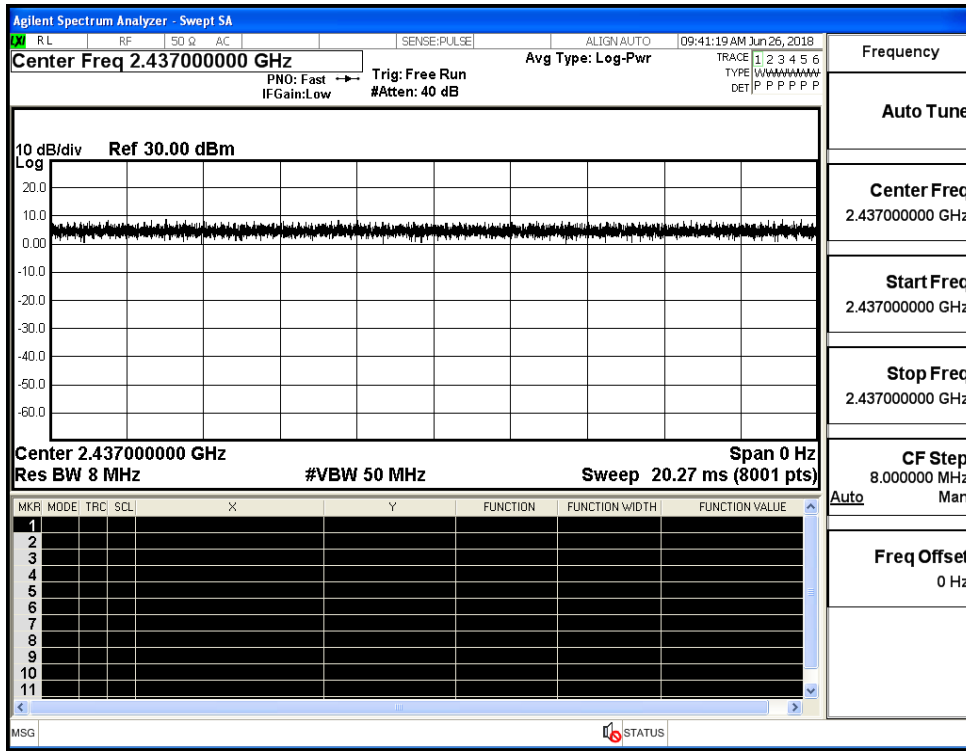
Duty Cycle\_11B\_2437\_Ant1



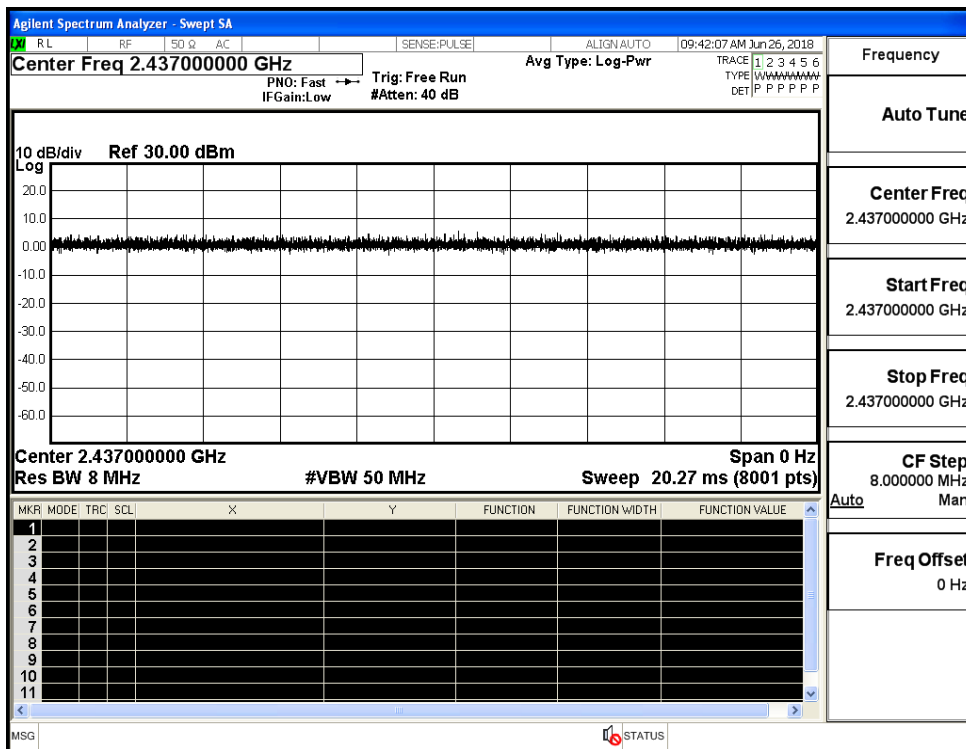
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



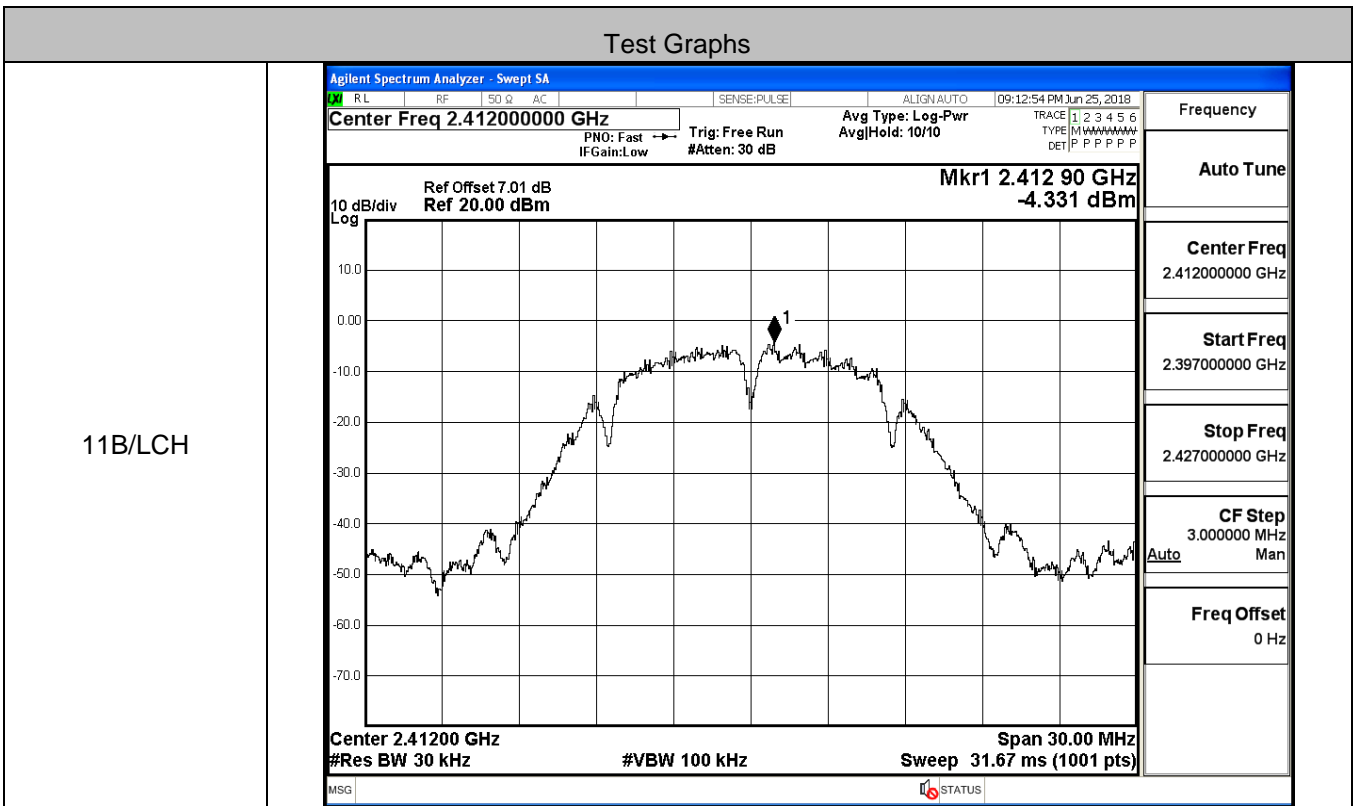
Duty Cycle\_11N40SISO\_2437\_Ant1



### A.2 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-4.331	8	PASS
	MCH	-4.417	8	PASS
	HCH	-5.191	8	PASS
11G	LCH	-7.288	8	PASS
	MCH	-7.618	8	PASS
	HCH	-7.974	8	PASS
11N20SISO	LCH	-6.297	8	PASS
	MCH	-6.884	8	PASS
	HCH	-7.157	8	PASS
11N40SISO	LCH	-11.033	8	PASS
	MCH	-11.386	8	PASS
	HCH	-11.706	8	PASS

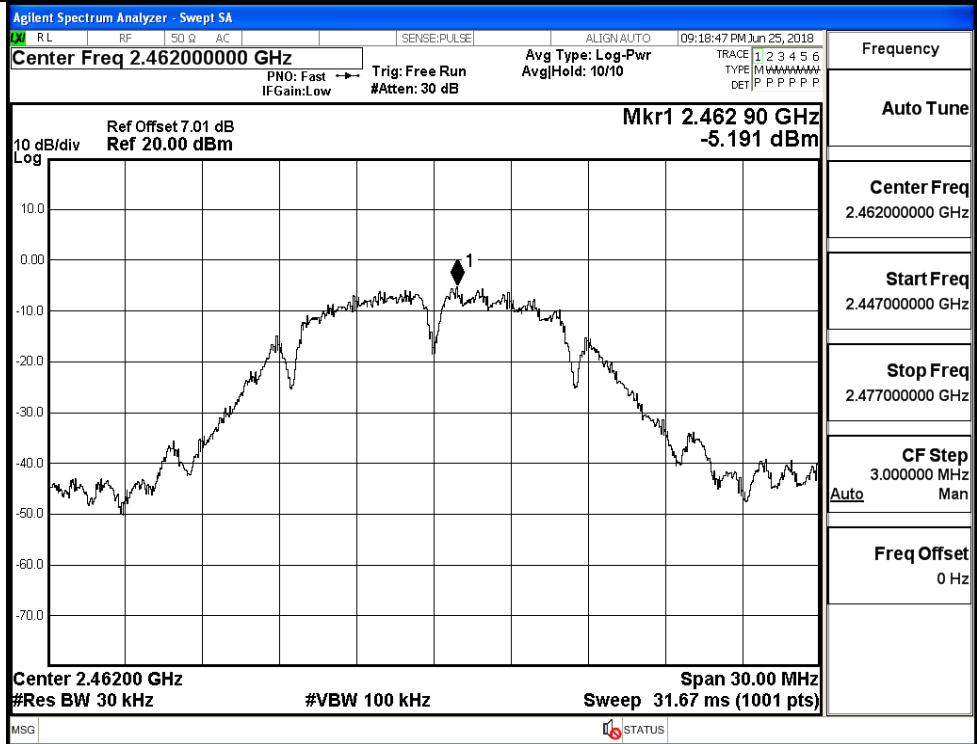
#### Test Graphs



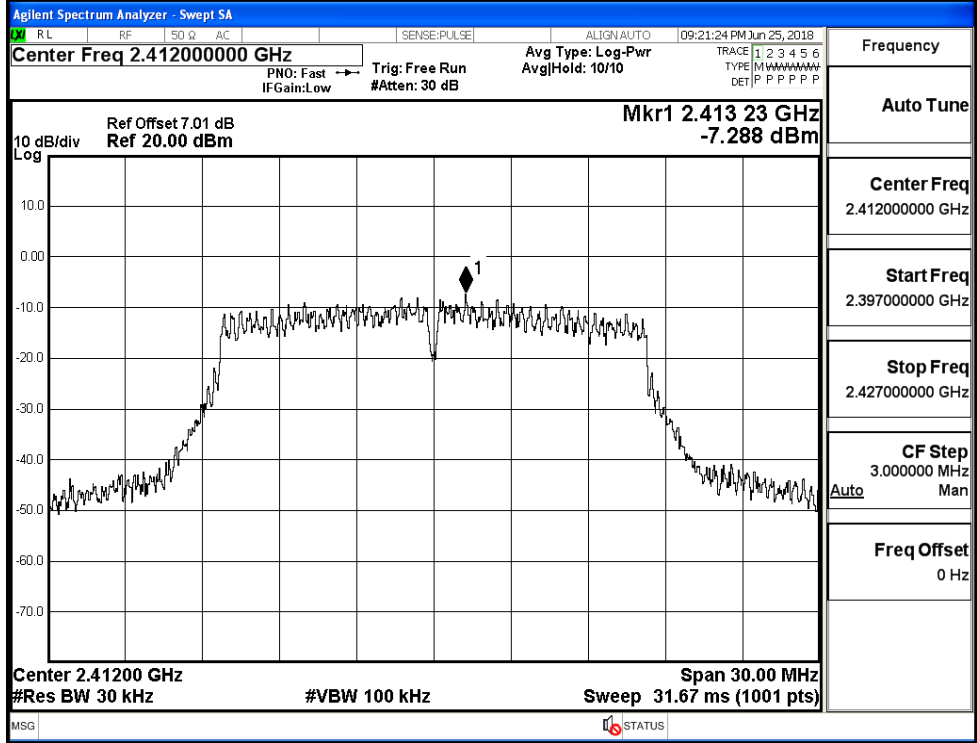
11B/MCH



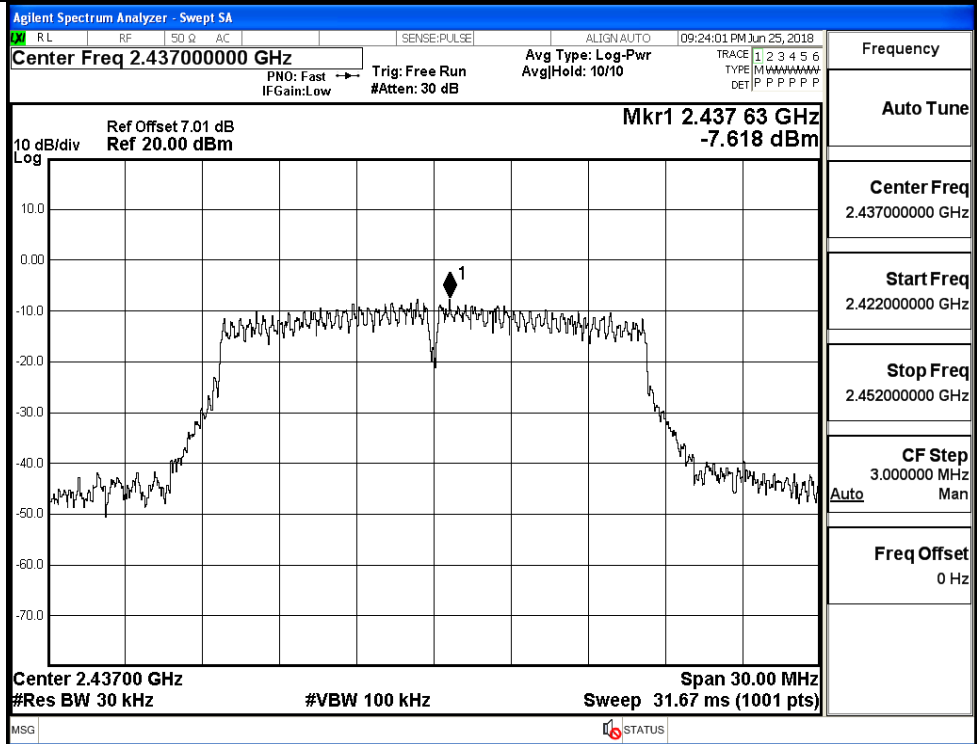
11B/HCH



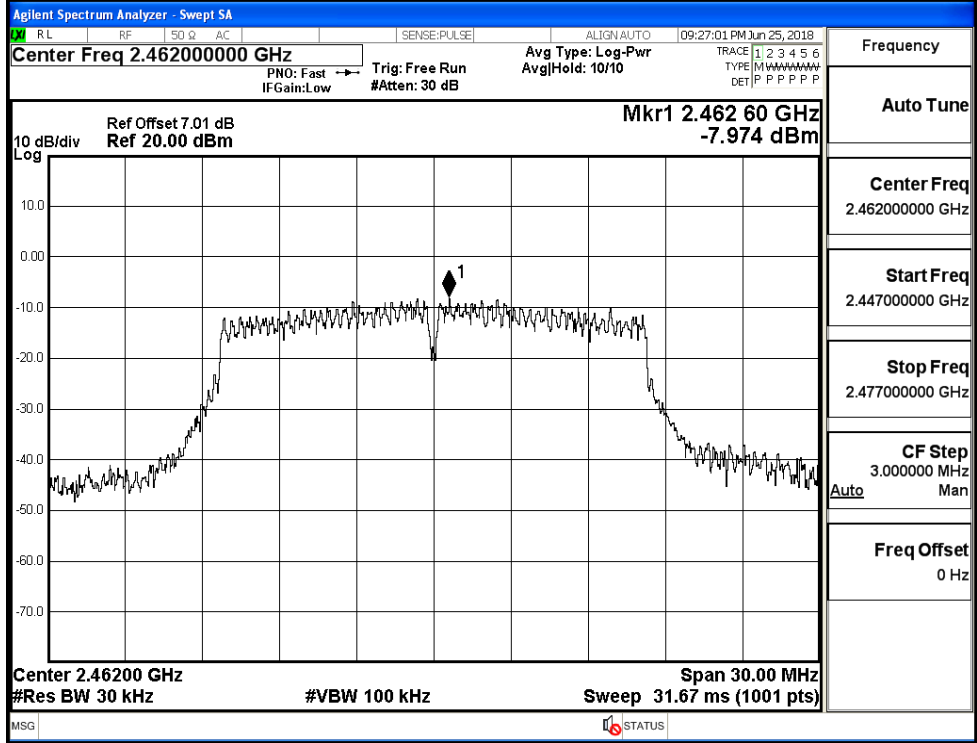
11G/LCH



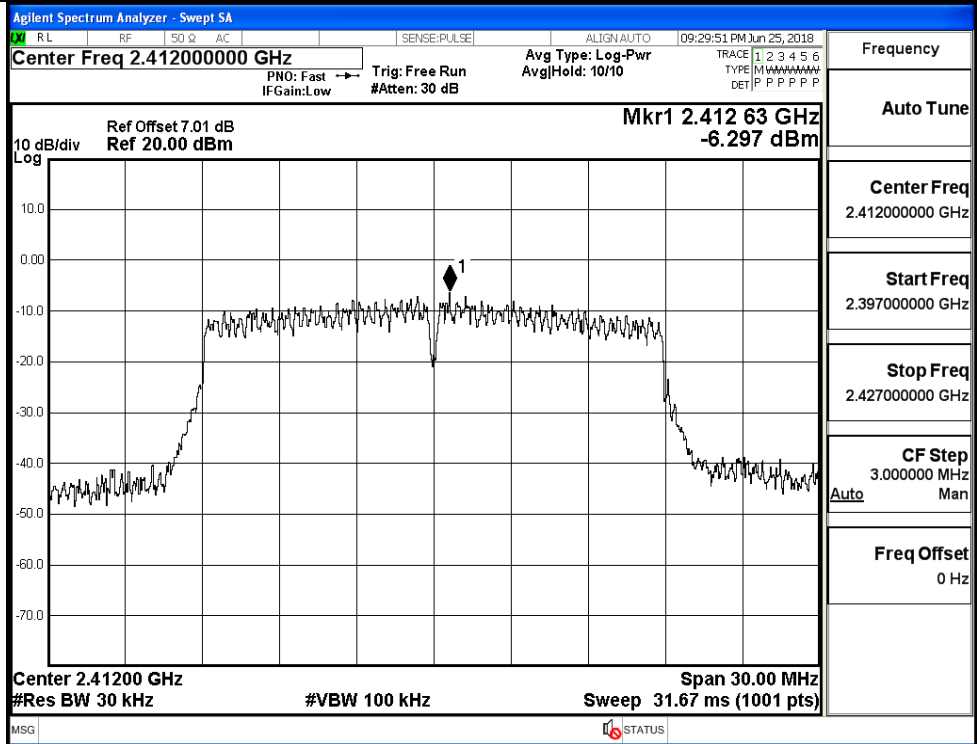
11G/MCH



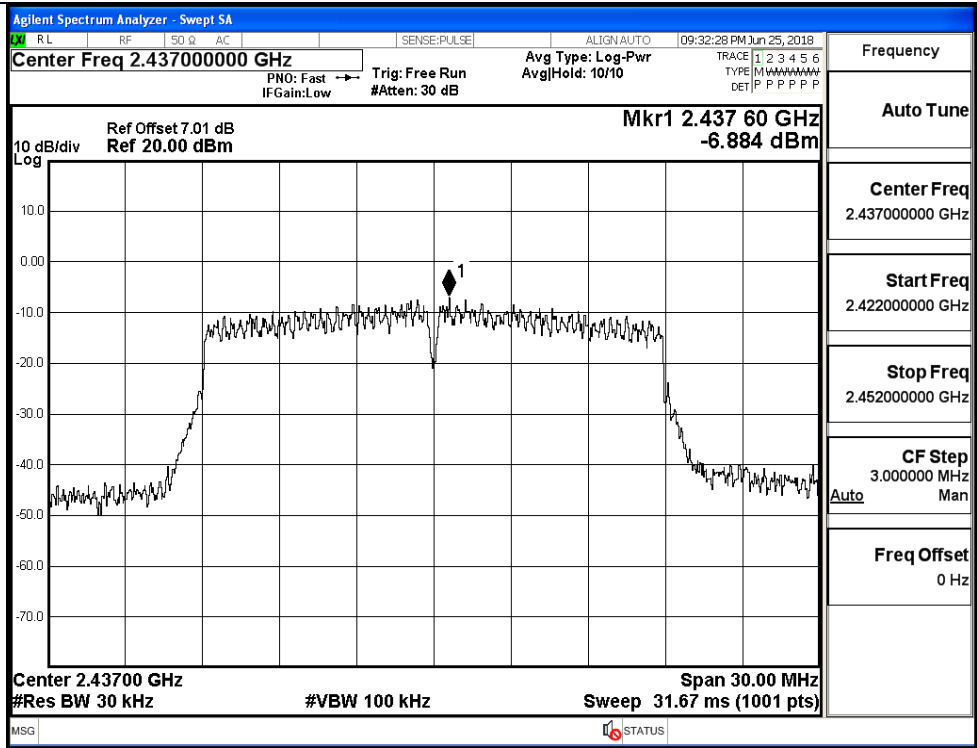
11G/HCH



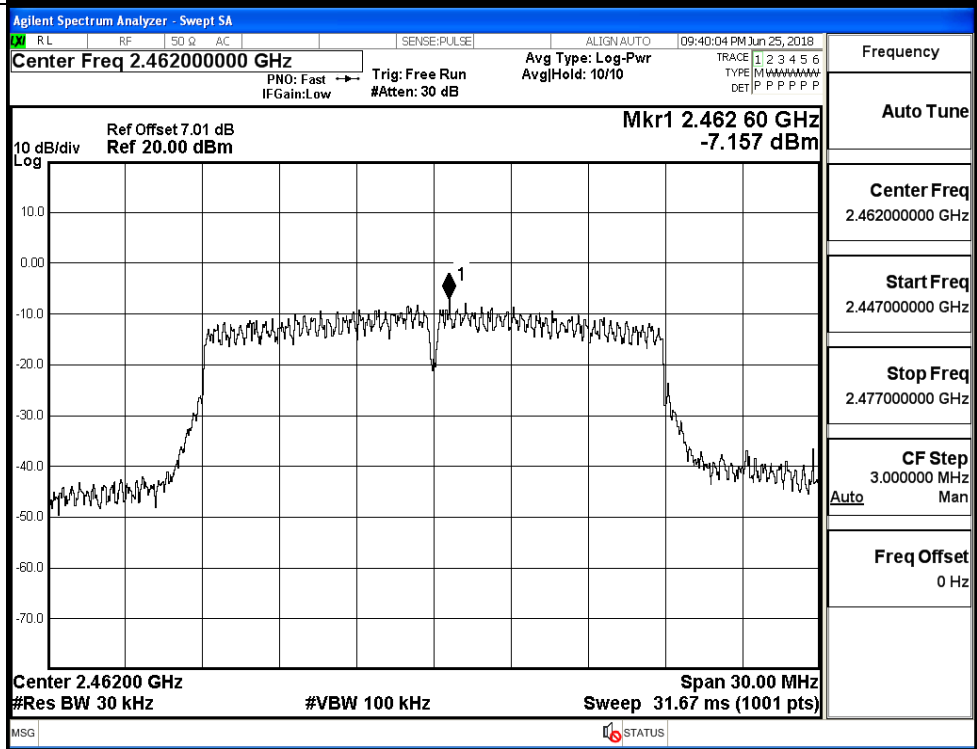
11N20SISO/LCH



11N20SISO/MCH

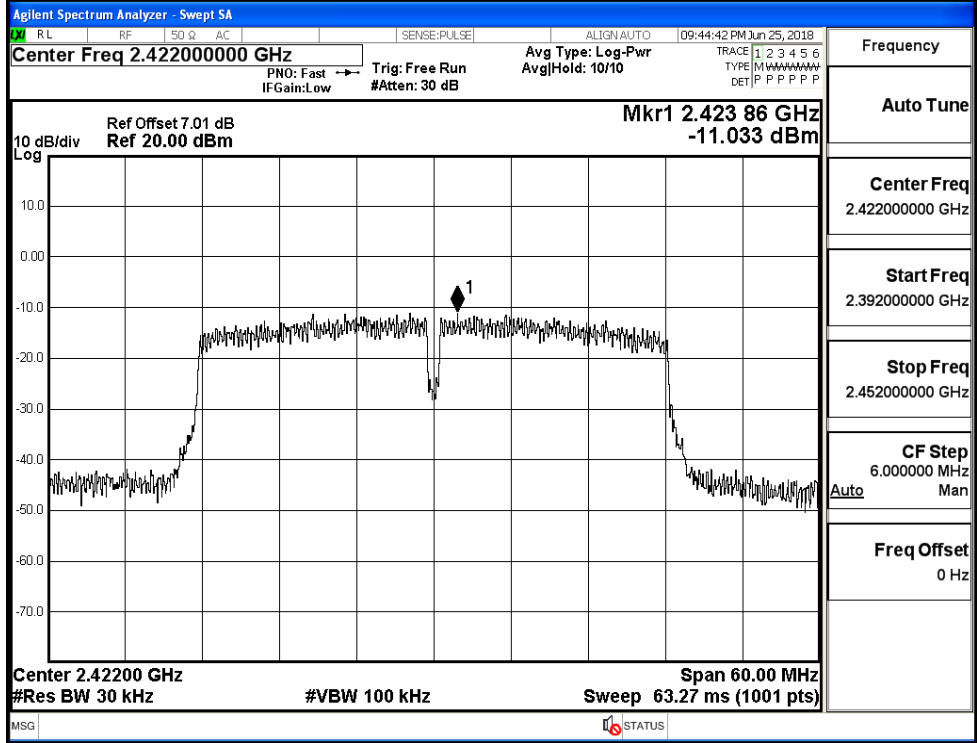


11N20SISO/HCH

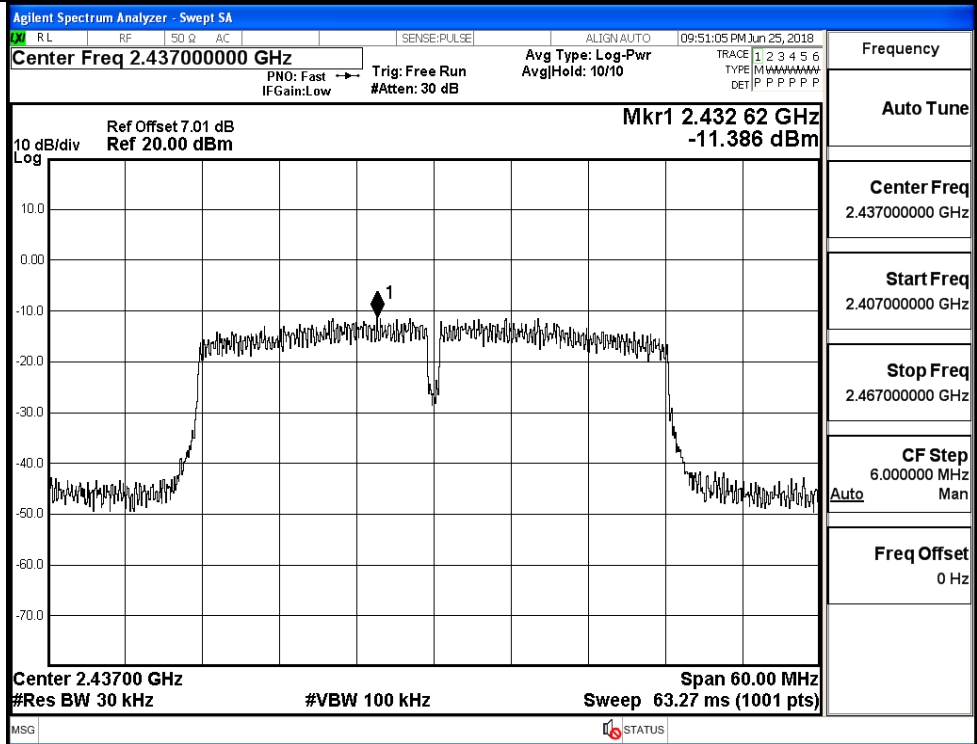


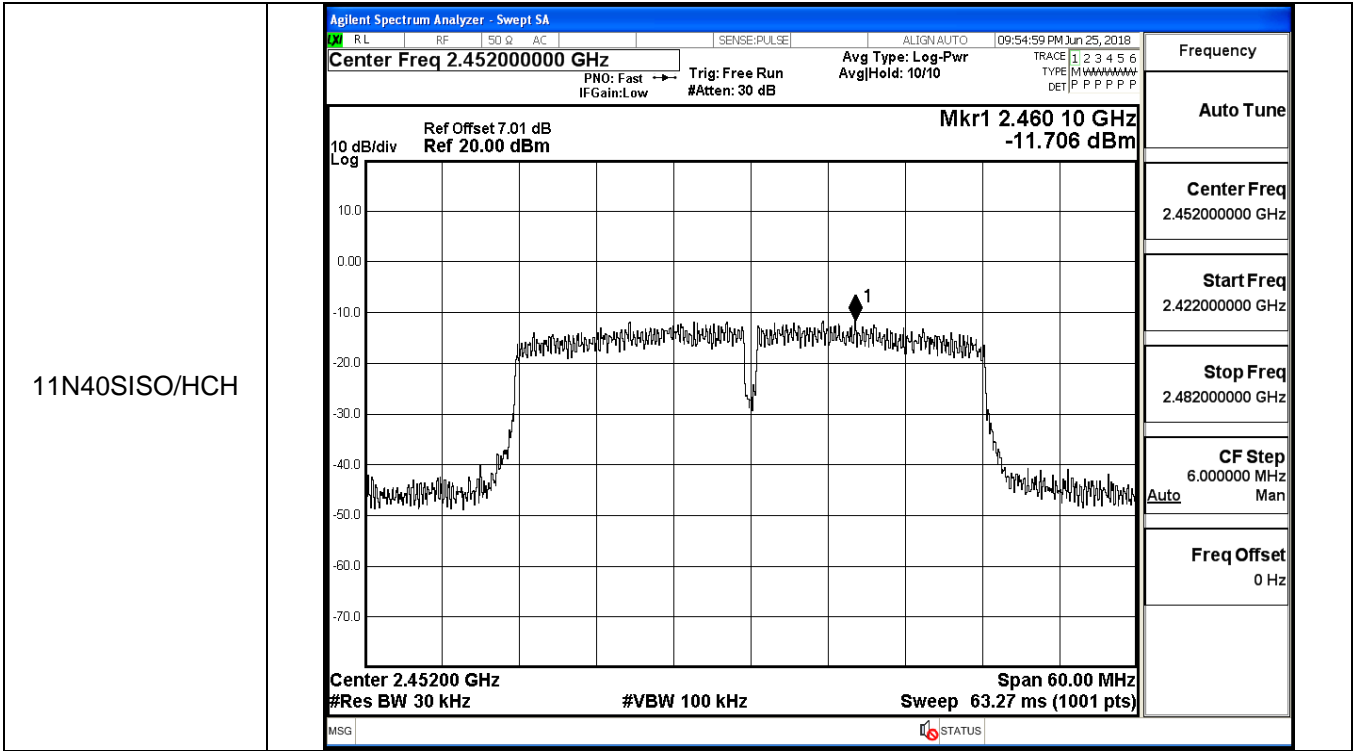


11N40SISO/LCH



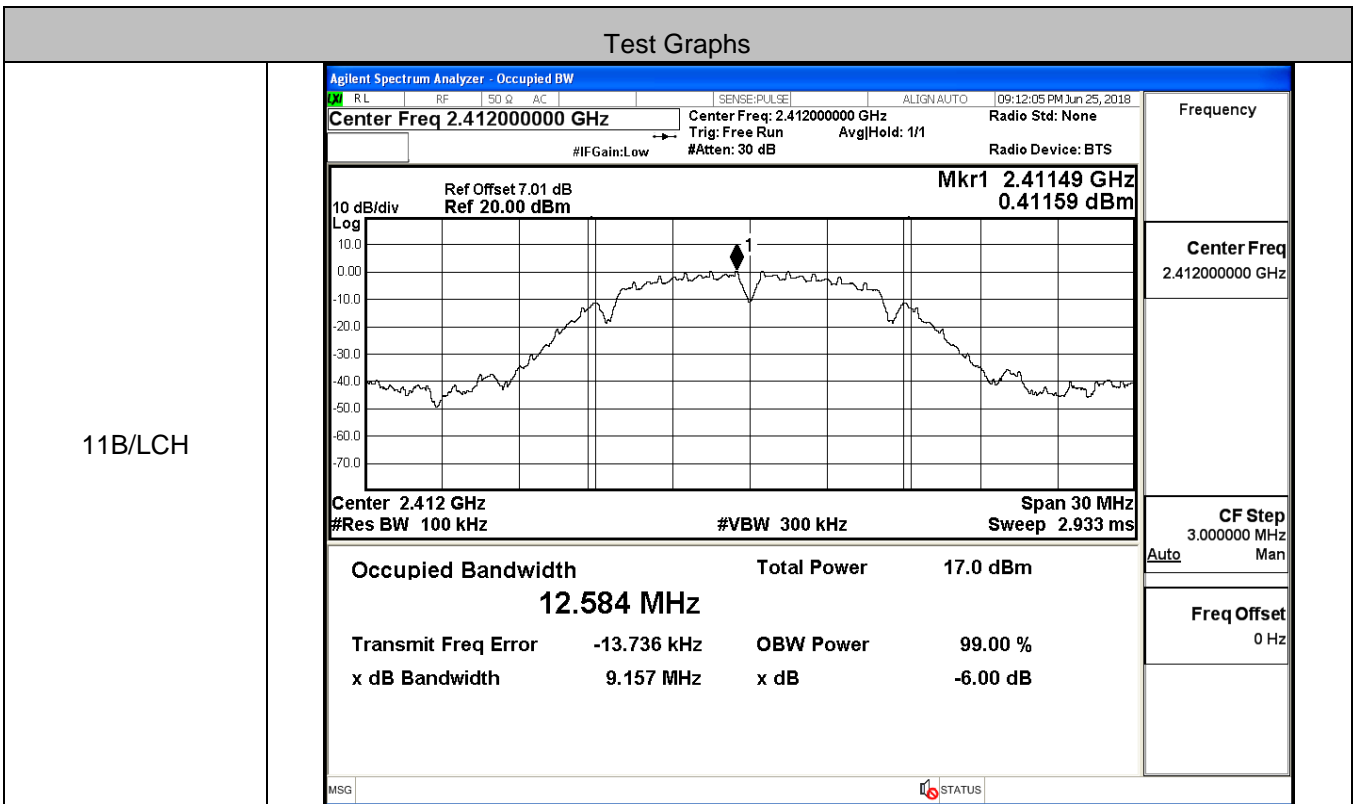
11N40SISO/MCH



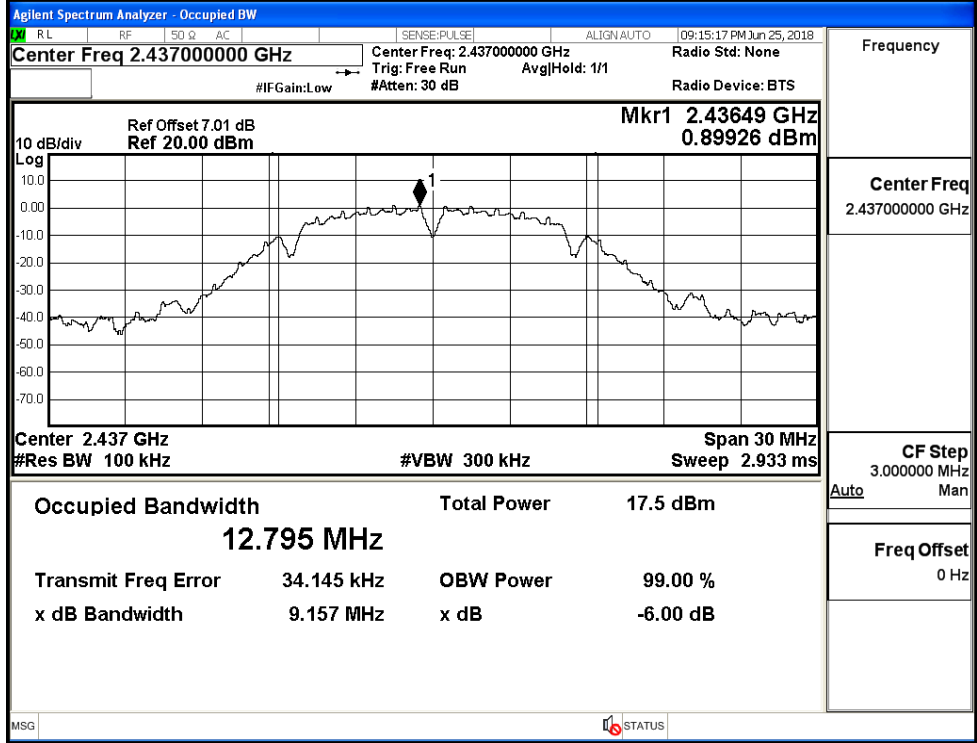


**A.3 6dB Bandwidth**

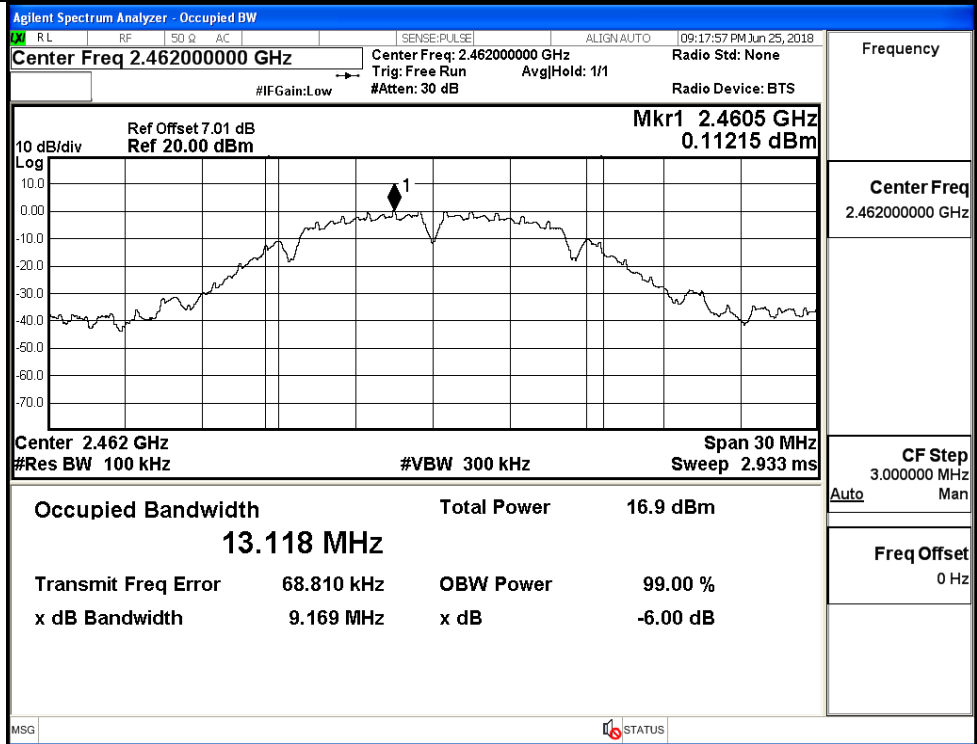
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.157	≥0.5	PASS
	MCH	9.157	≥0.5	PASS
	HCH	9.169	≥0.5	PASS
11G	LCH	15.16	≥0.5	PASS
	MCH	16.40	≥0.5	PASS
	HCH	16.41	≥0.5	PASS
11N20SISO	LCH	17.61	≥0.5	PASS
	MCH	17.60	≥0.5	PASS
	HCH	17.64	≥0.5	PASS
11N40SISO	LCH	36.36	≥0.5	PASS
	MCH	36.34	≥0.5	PASS
	HCH	36.39	≥0.5	PASS



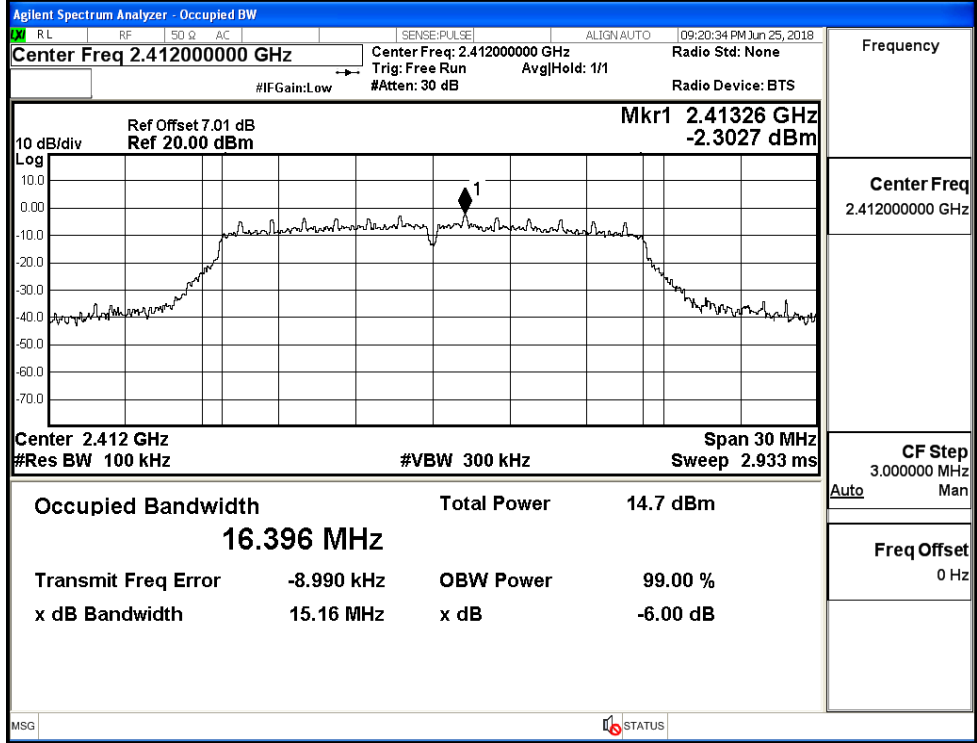
11B/MCH



11B/HCH



11G/LCH



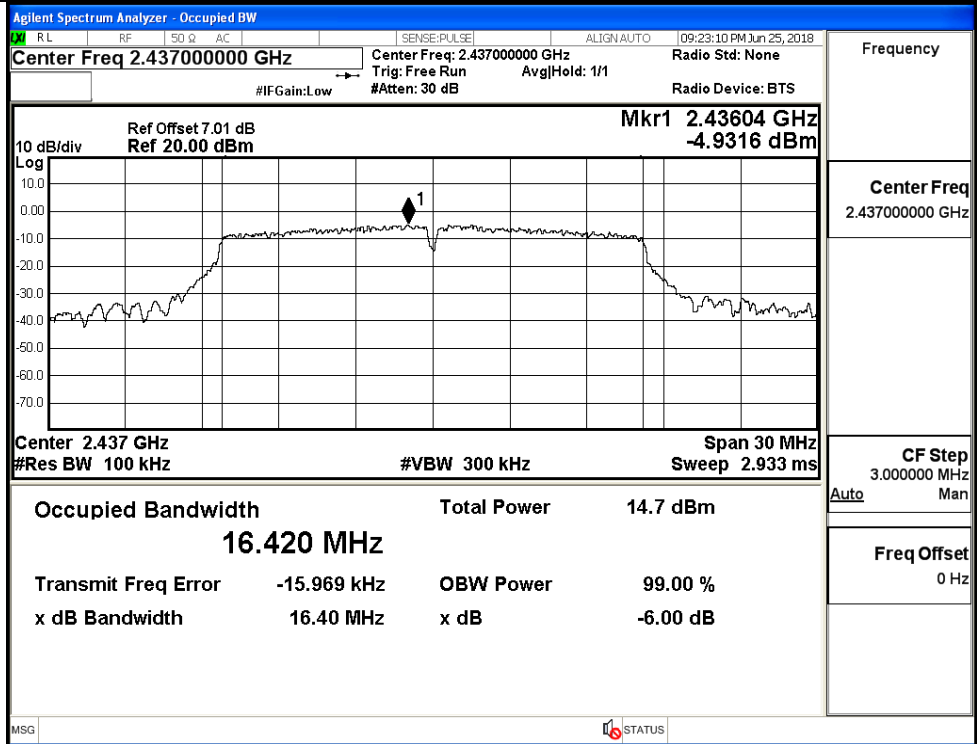
Frequency

Center Freq  
2.41200000 GHz

CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

11G/MCH



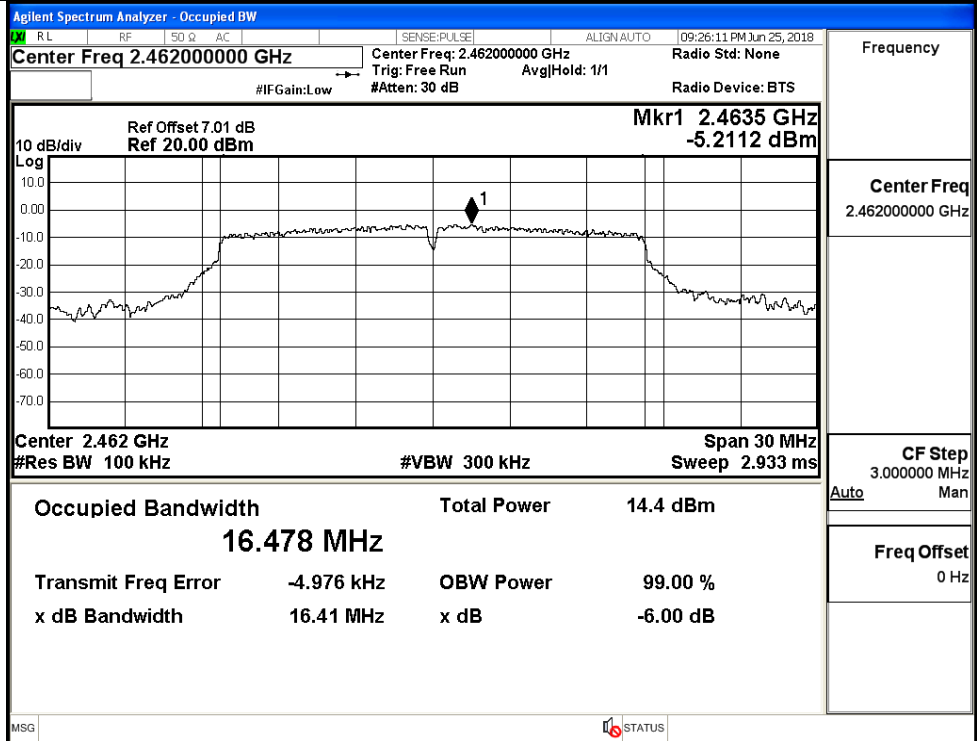
Frequency

Center Freq  
2.43700000 GHz

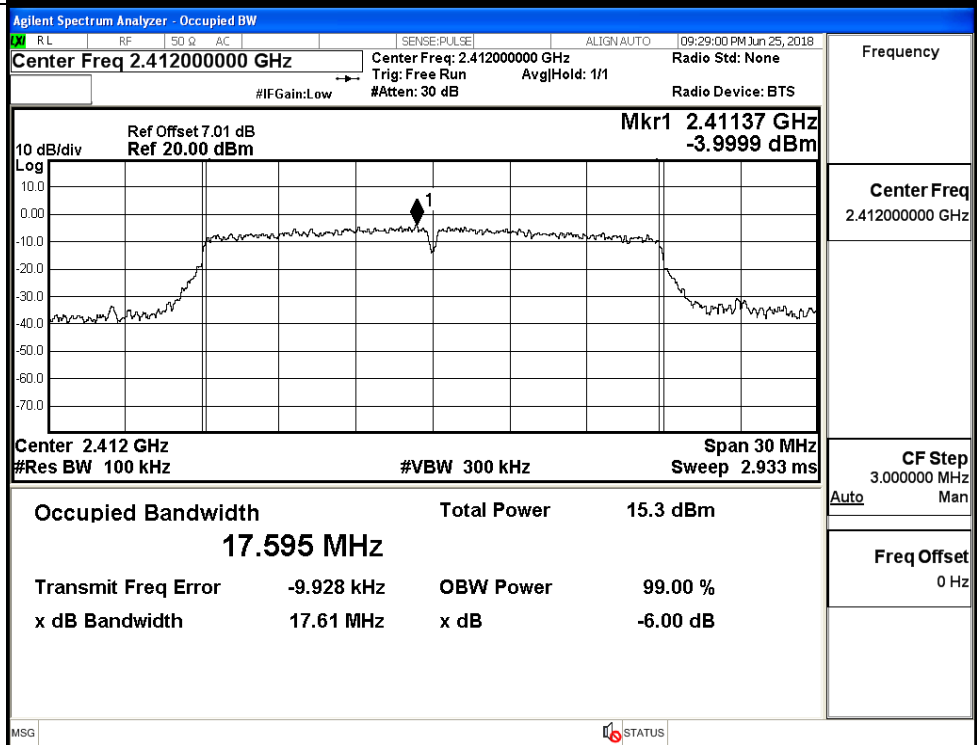
CF Step  
3.000000 MHz  
Auto Man

Freq Offset  
0 Hz

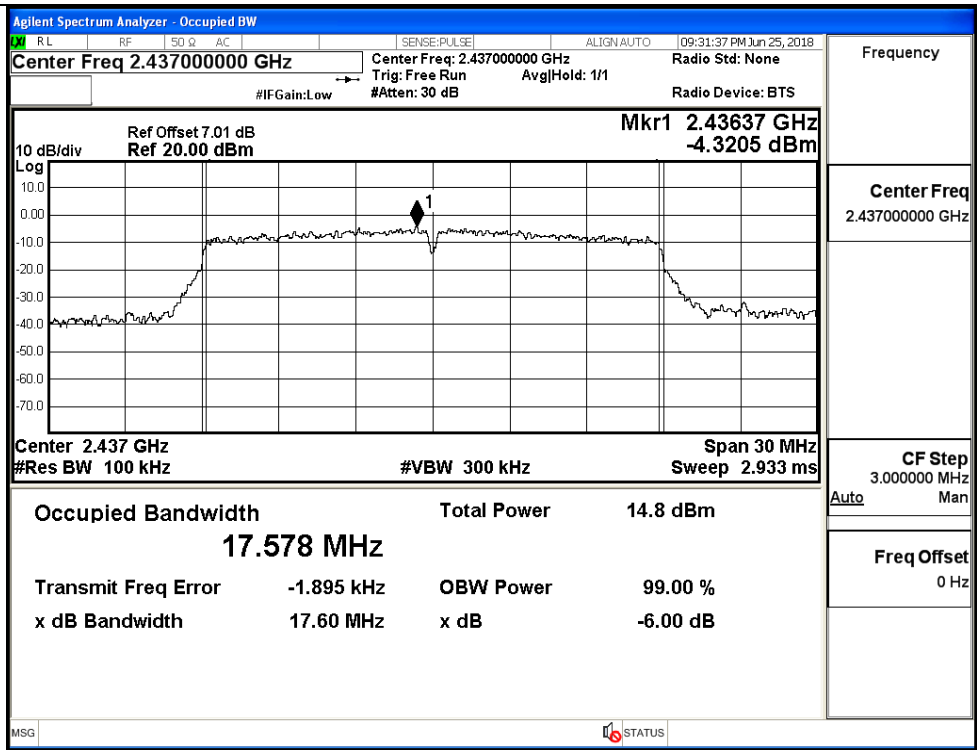
11G/HCH



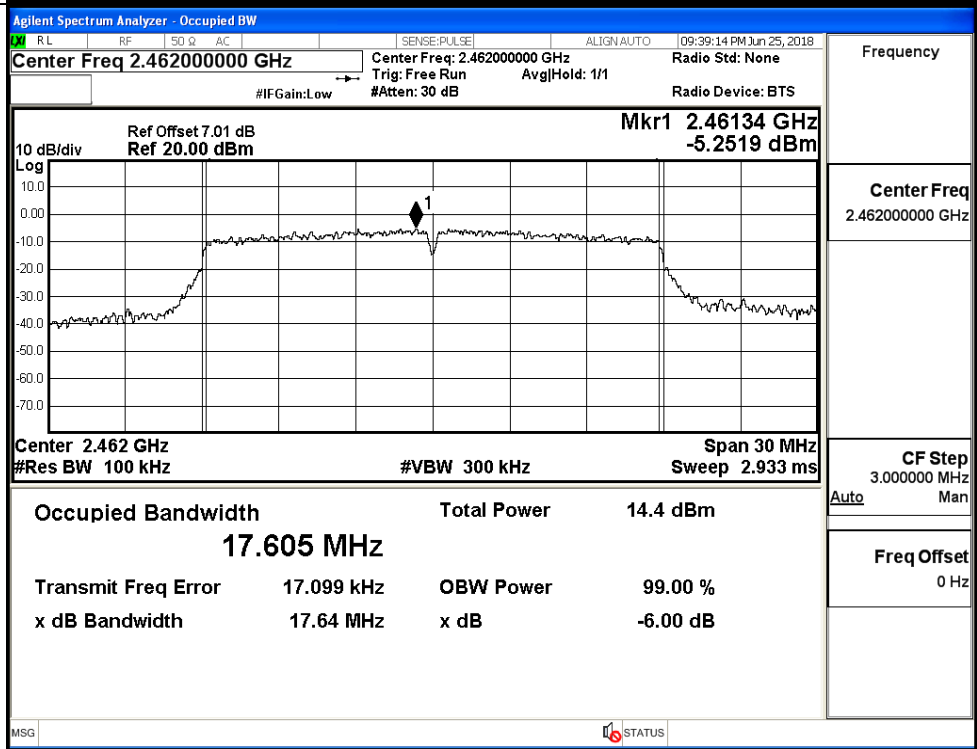
11N20SISO/LCH



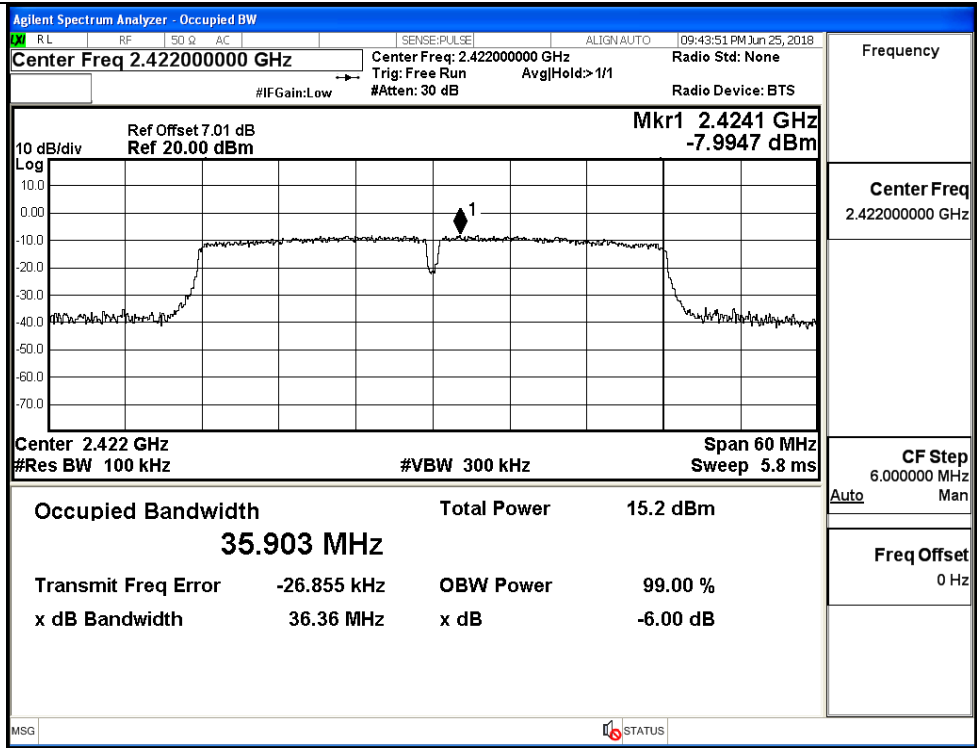
11N20SISO/MCH



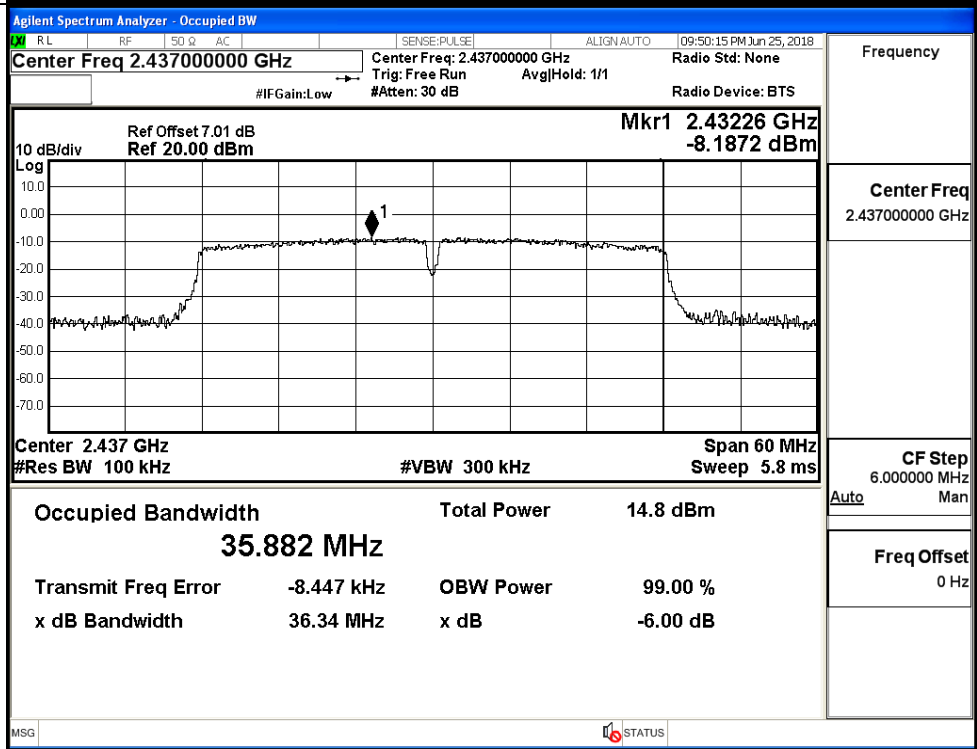
11N20SISO/HCH



11N40SISO/LCH

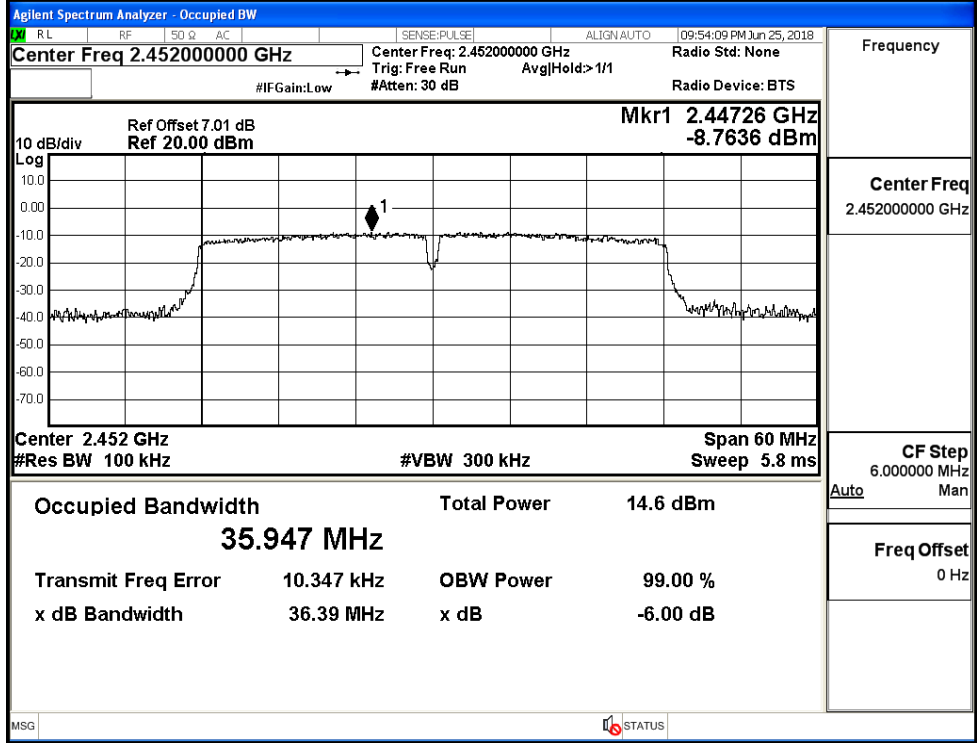


11N40SISO/MCH





11N40SISO/HCH

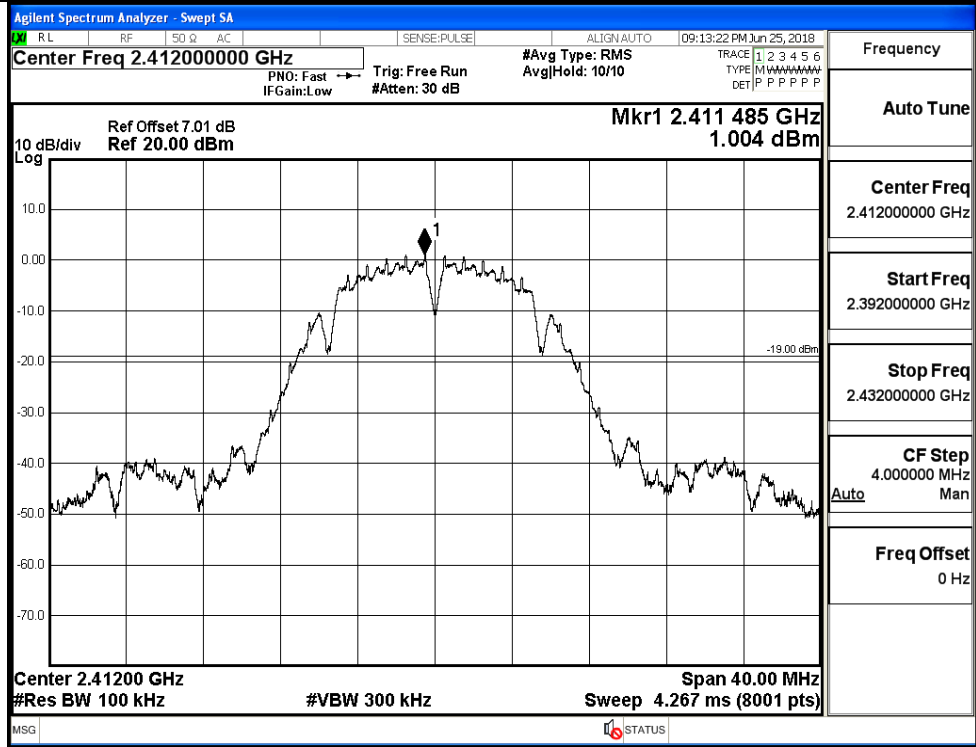


### A.4 RF Conducted Spurious Emissions

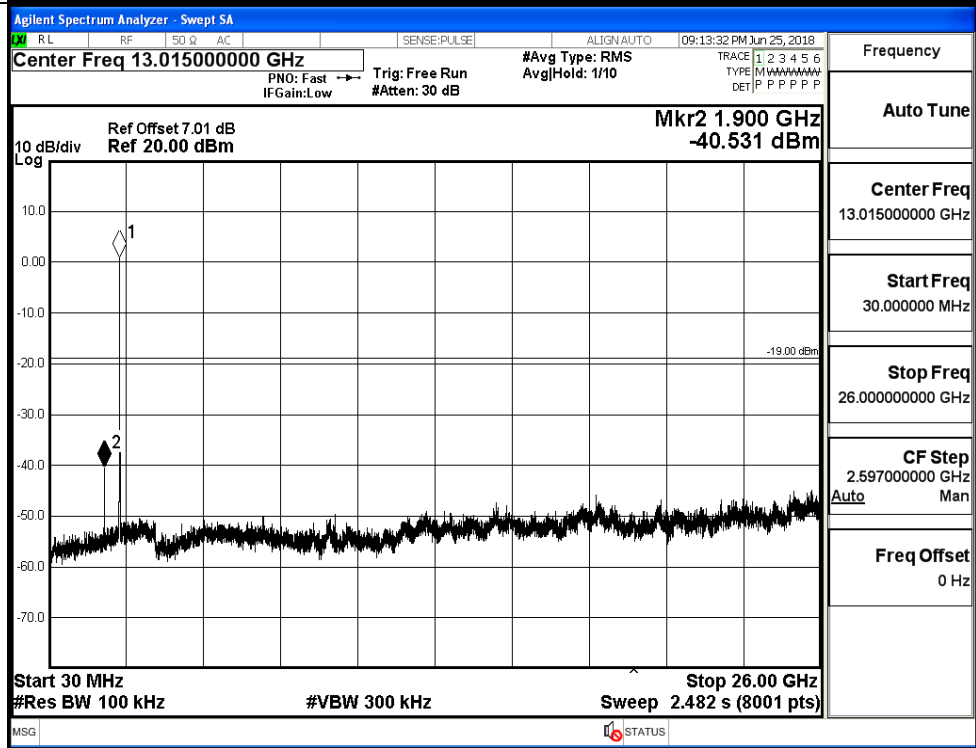
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.004	-40.531	-18.996	PASS
	MCH	0.805	-43.401	-19.195	PASS
	HCH	0.044	-45.713	-19.956	PASS
11G	LCH	-2.395	-44.881	-22.395	PASS
	MCH	-4.998	-44.666	-24.998	PASS
	HCH	-5.369	-45.130	-25.369	PASS
11N20 SISO	LCH	-4.083	-45.181	-24.083	PASS
	MCH	-4.4	-44.351	-24.400	PASS
	HCH	-5.196	-44.632	-25.196	PASS
11N40 SISO	LCH	-8.475	-45.458	-28.475	PASS
	MCH	-8.302	-45.049	-28.302	PASS
	HCH	-8.81	-45.373	-28.810	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

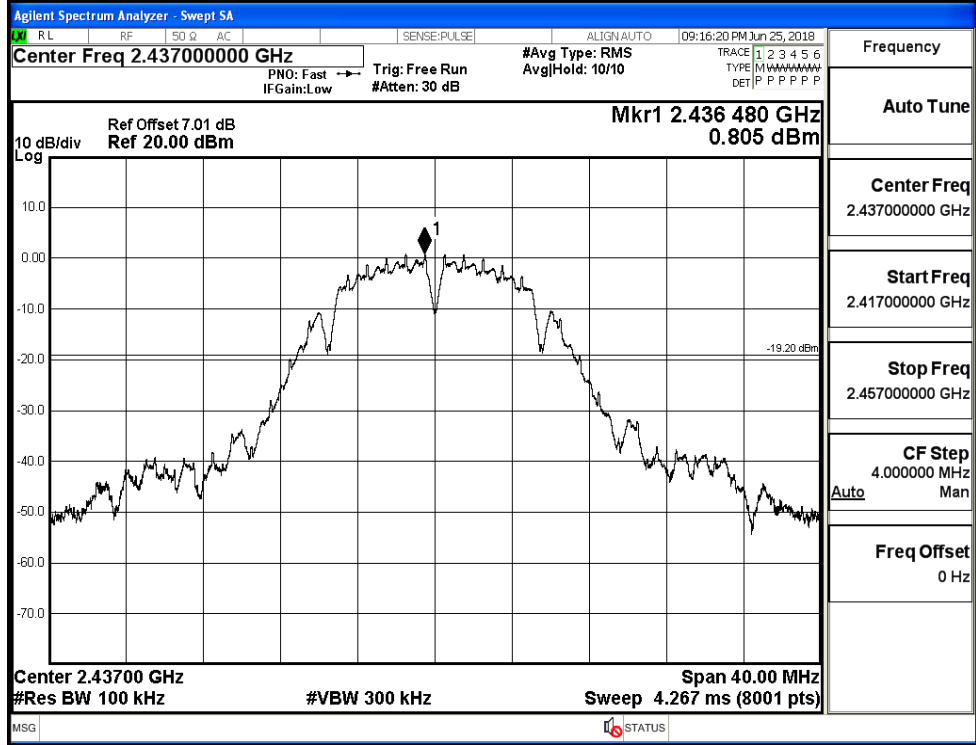


Puw/11B/LCH

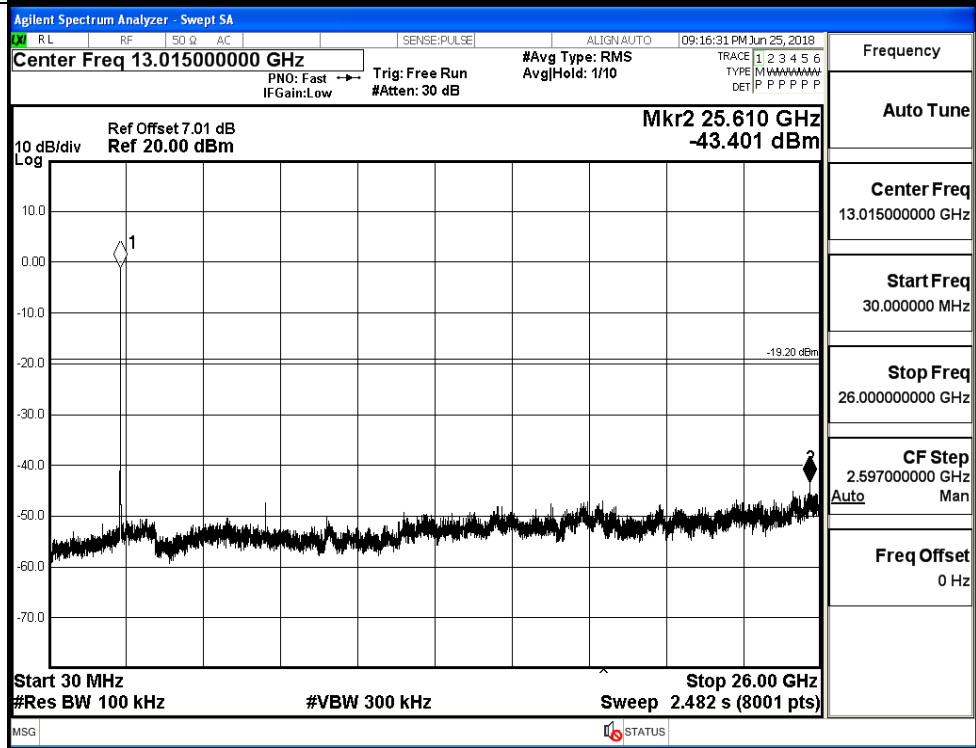


11B\_MCH\_Graphs

Pref/11B/MCH

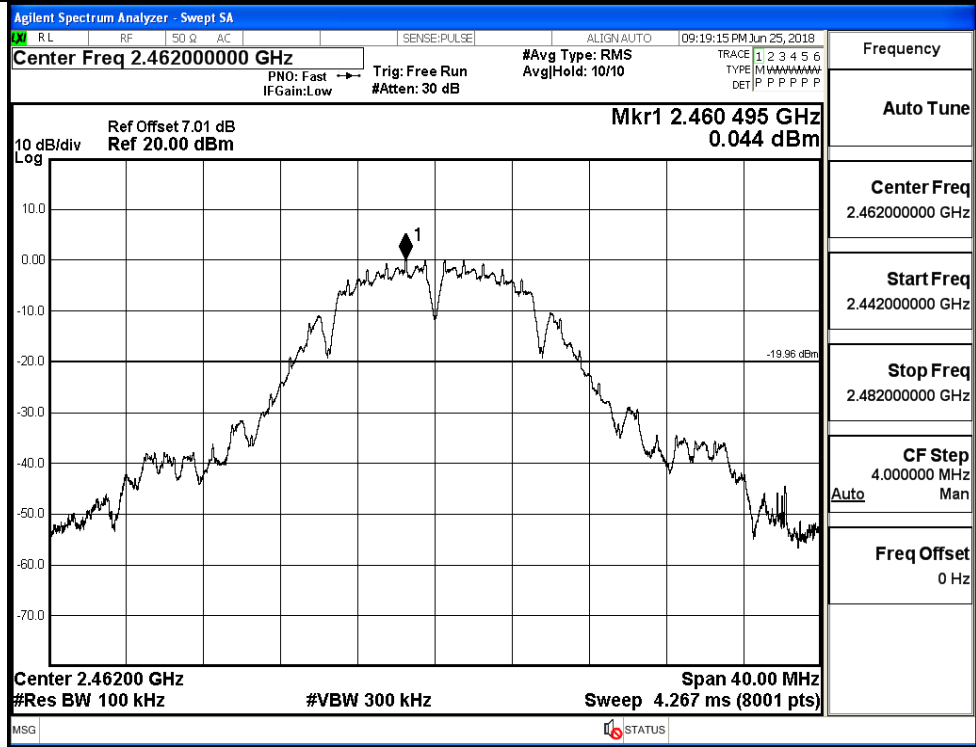


Puw/11B/MCH

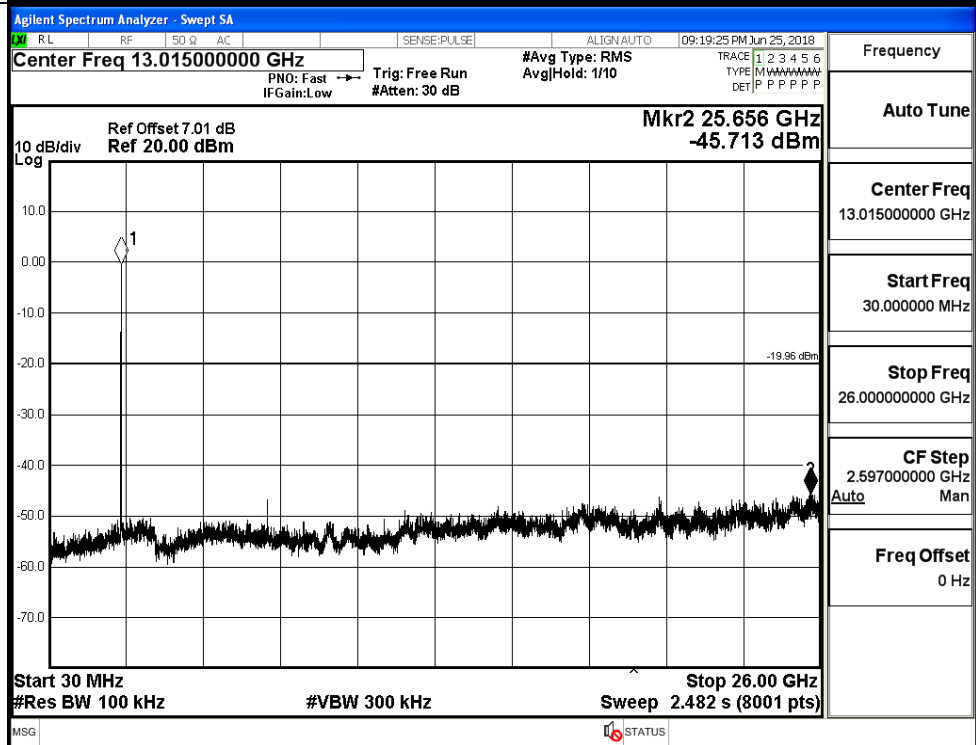


11B\_HCH\_Graphs

Pref/11B/HCH

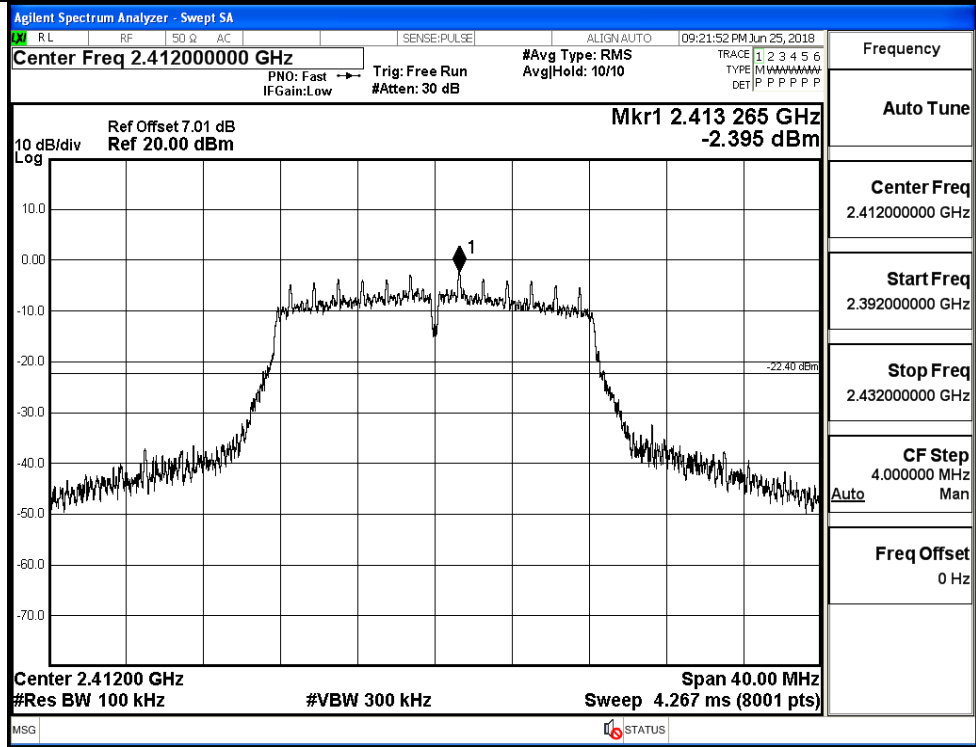


Puw/11B/HCH

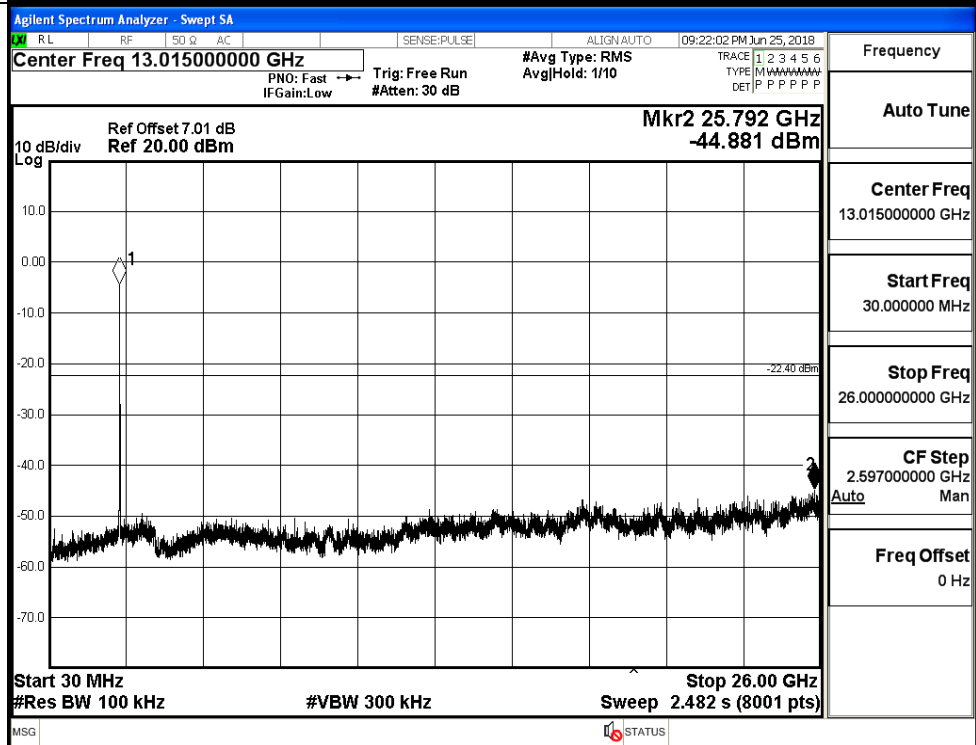


11G\_LCH\_Graphs

Pref/11G/LCH

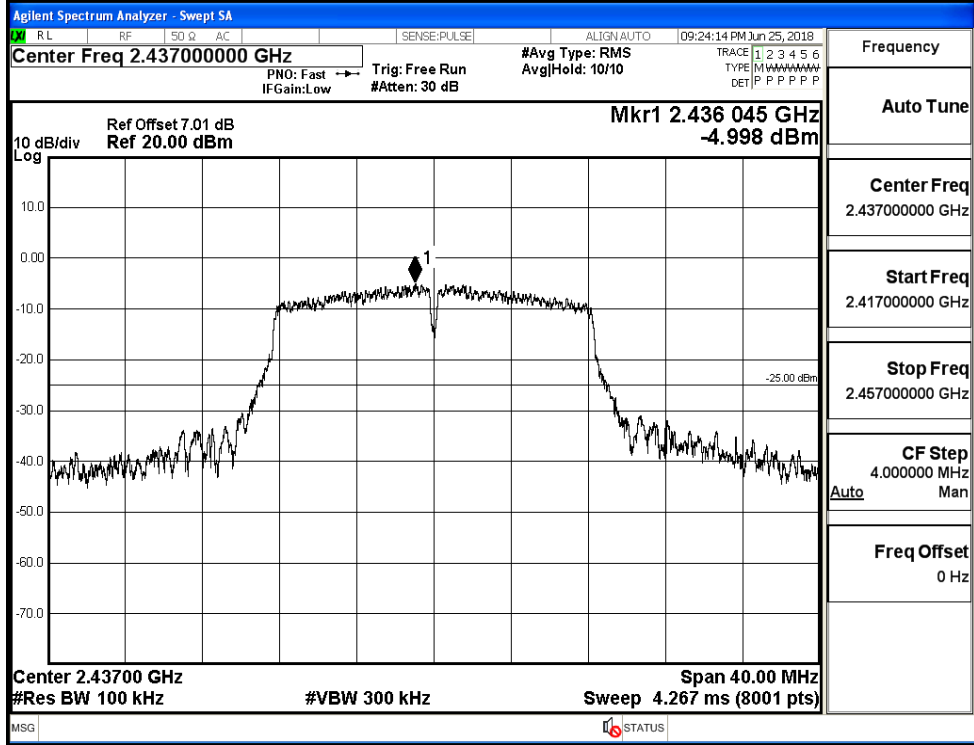


Puw/11G/LCH

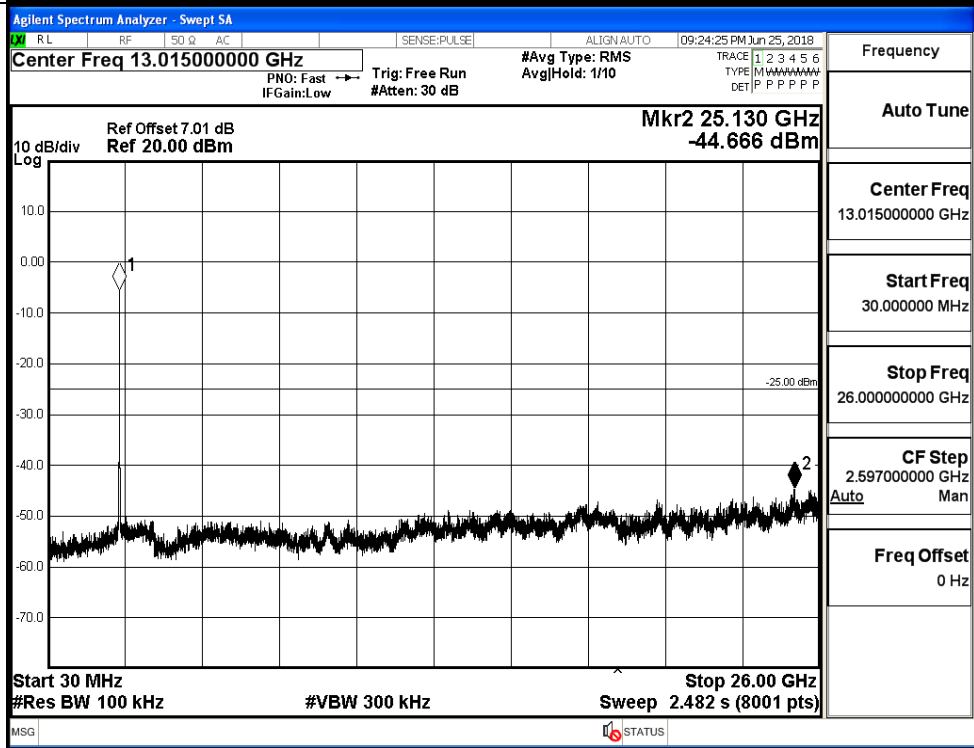


11G\_MCH\_Graphs

Pref/11G/MCH

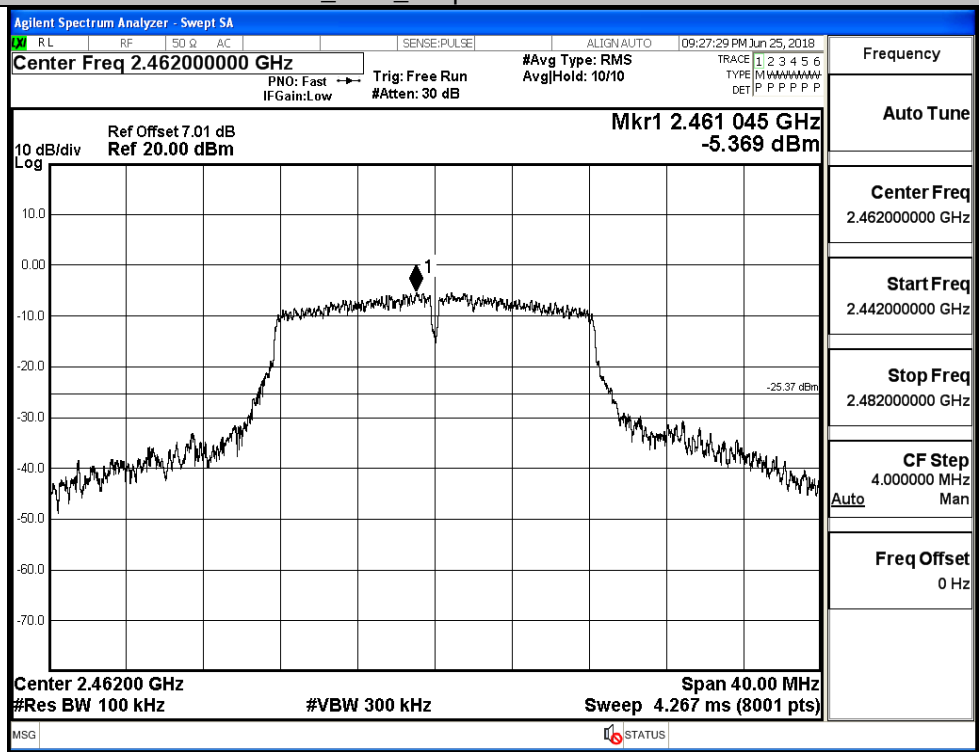


Puw/11G/MCH

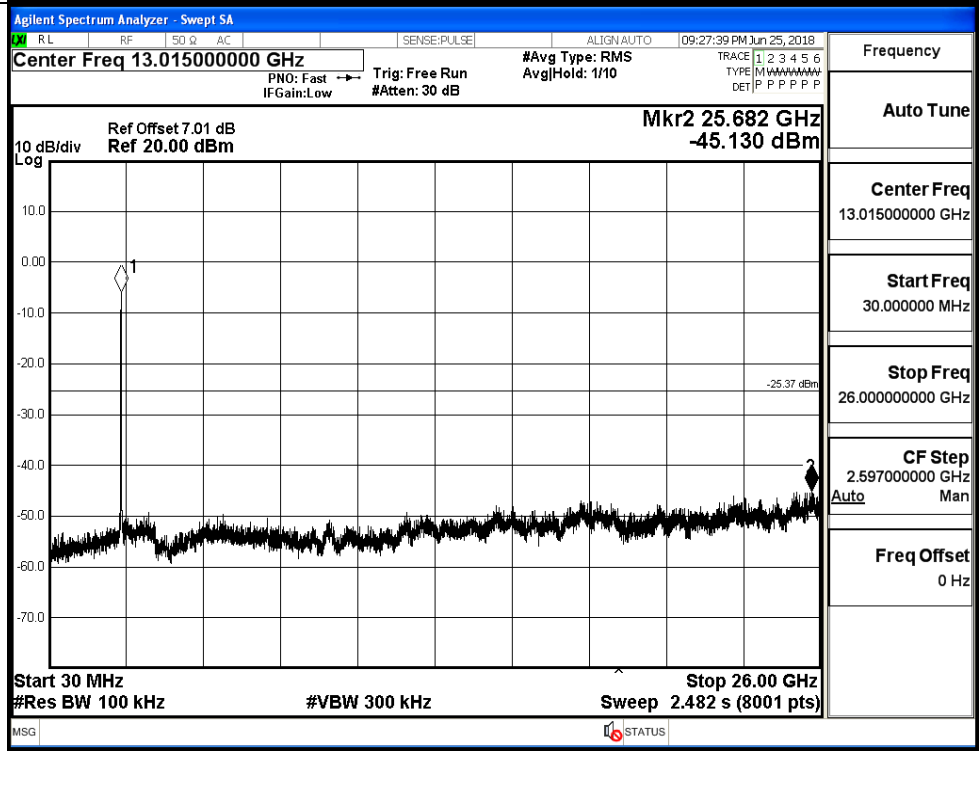


11G\_HCH\_Graphs

Pref/11G/HCH



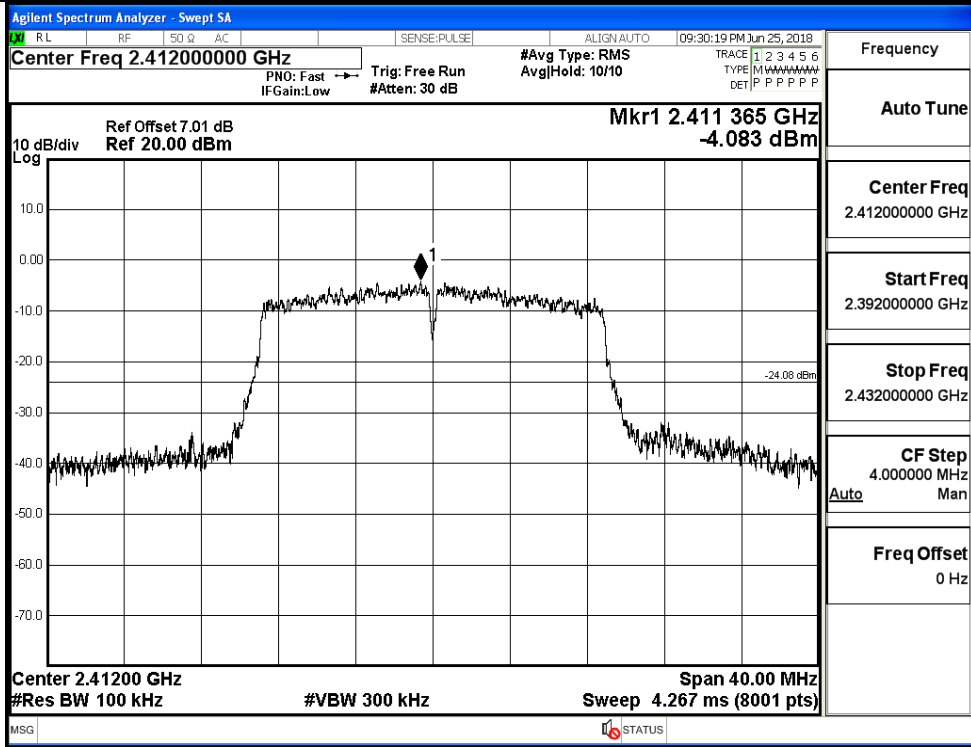
Puw/11G/HCH



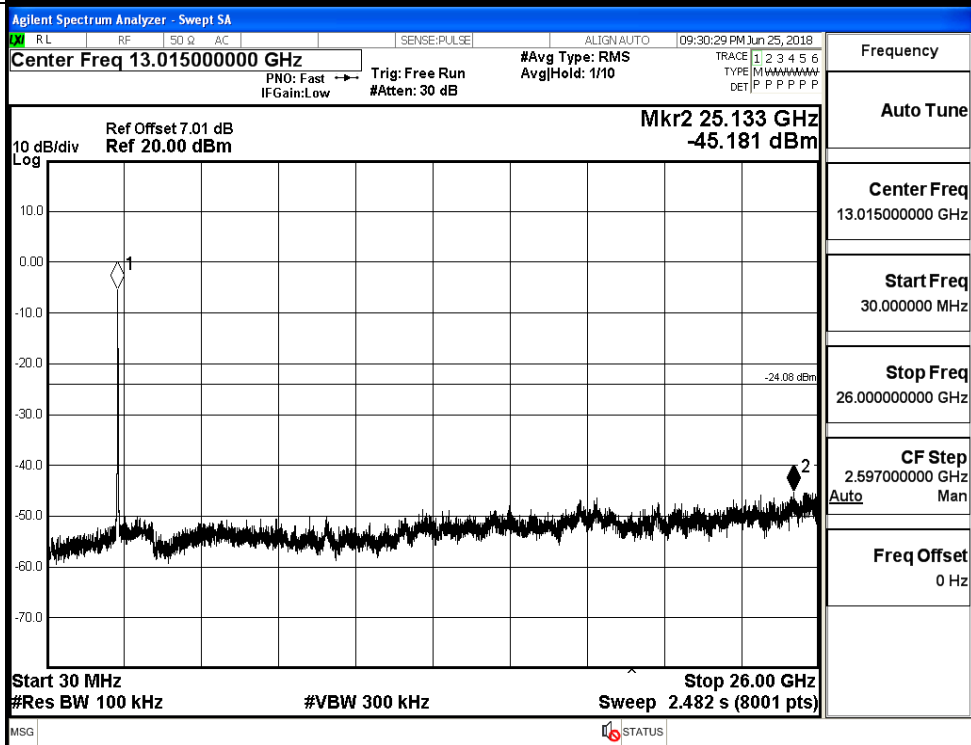


11N20SISO\_LCH\_Graphs

Pref/11N20SIS  
O/LCH

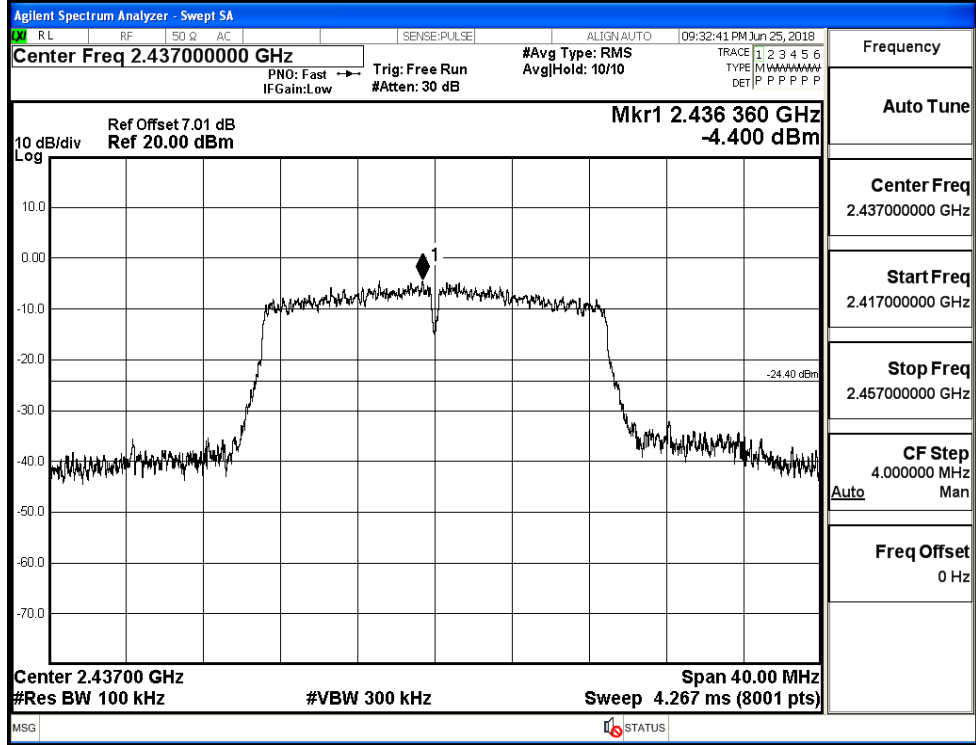


Puw/11N20  
SISO/LCH

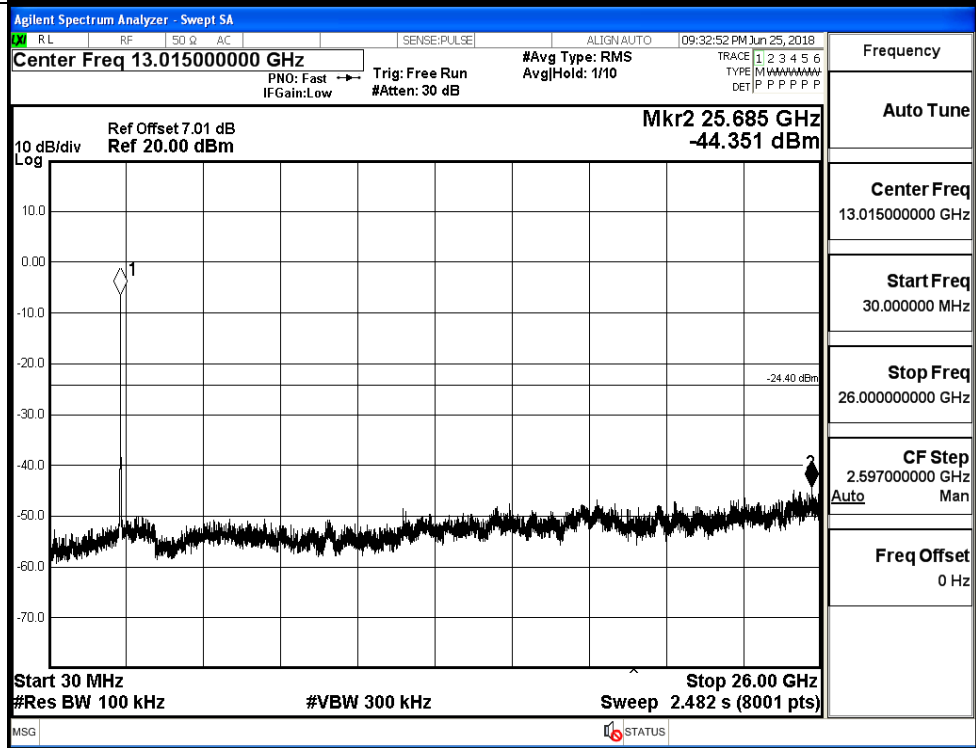


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

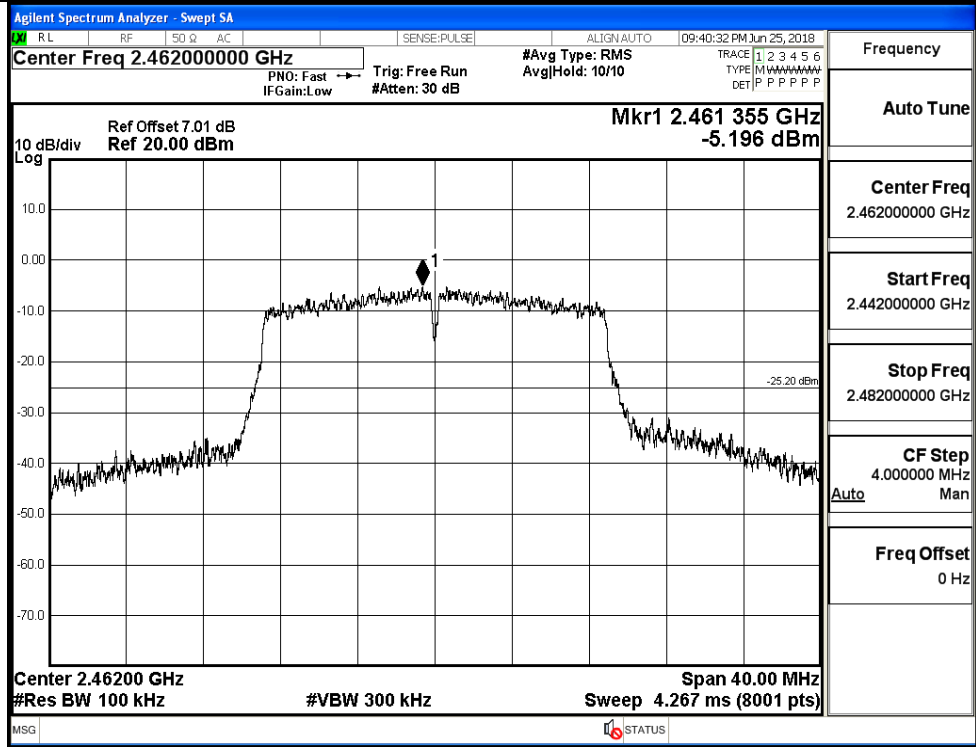


Puw/11N20  
SISO/MCH

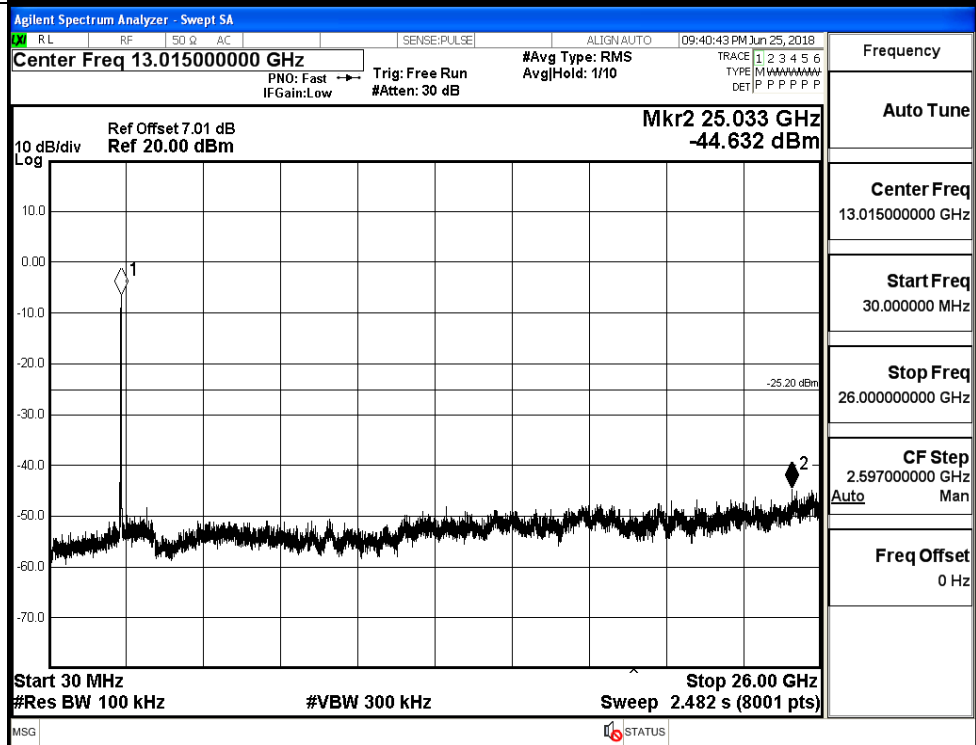


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

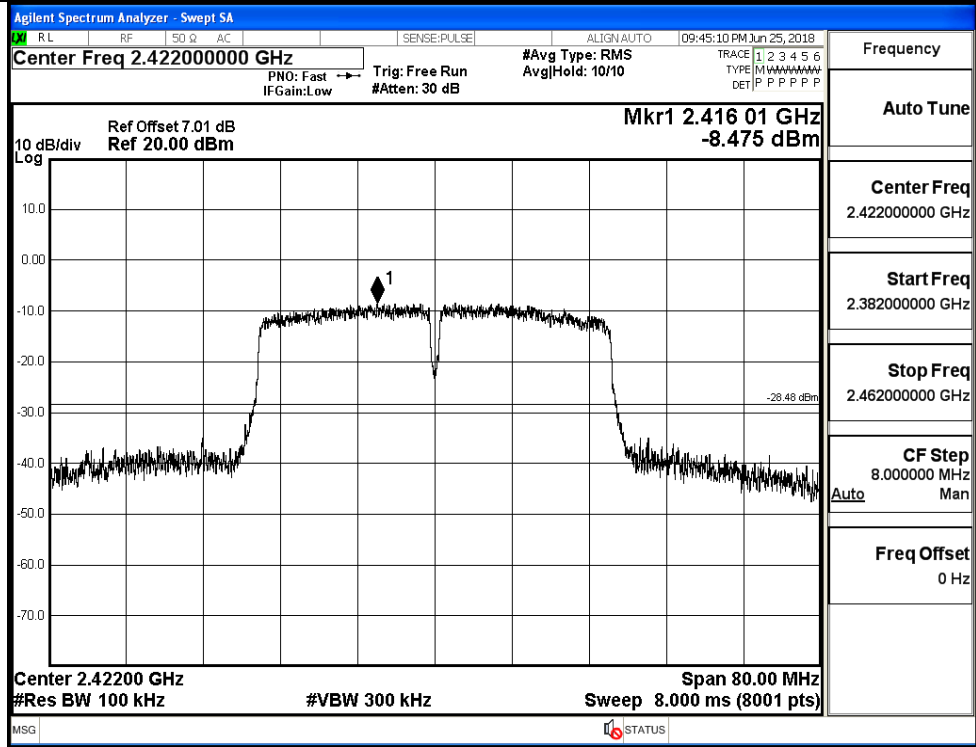


Puw/11N20  
SISO/HCH

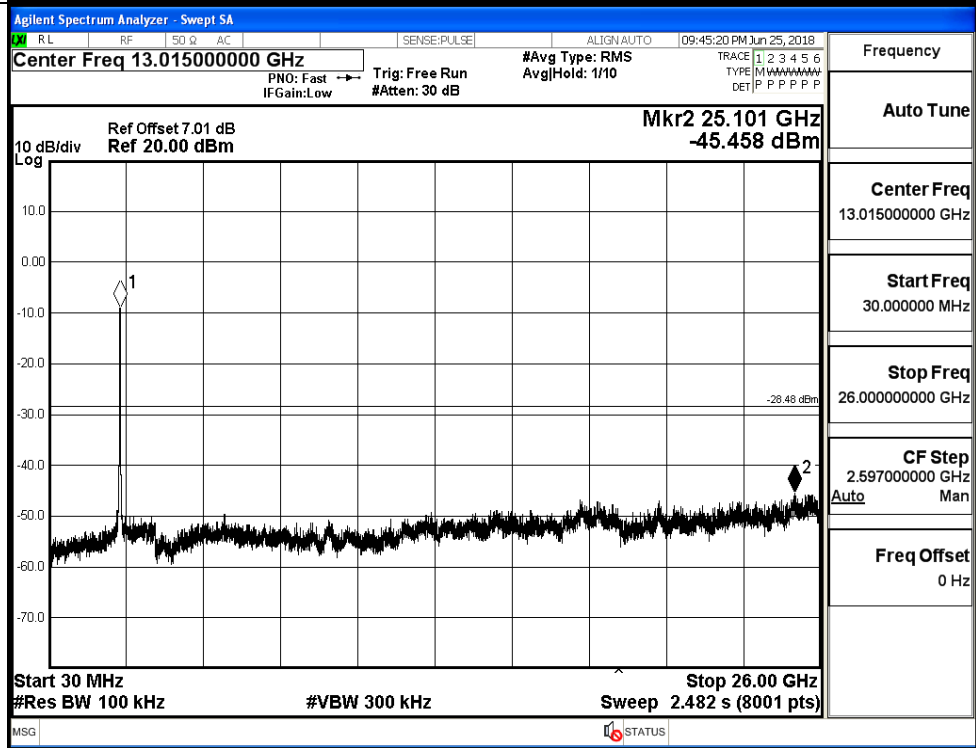


11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH

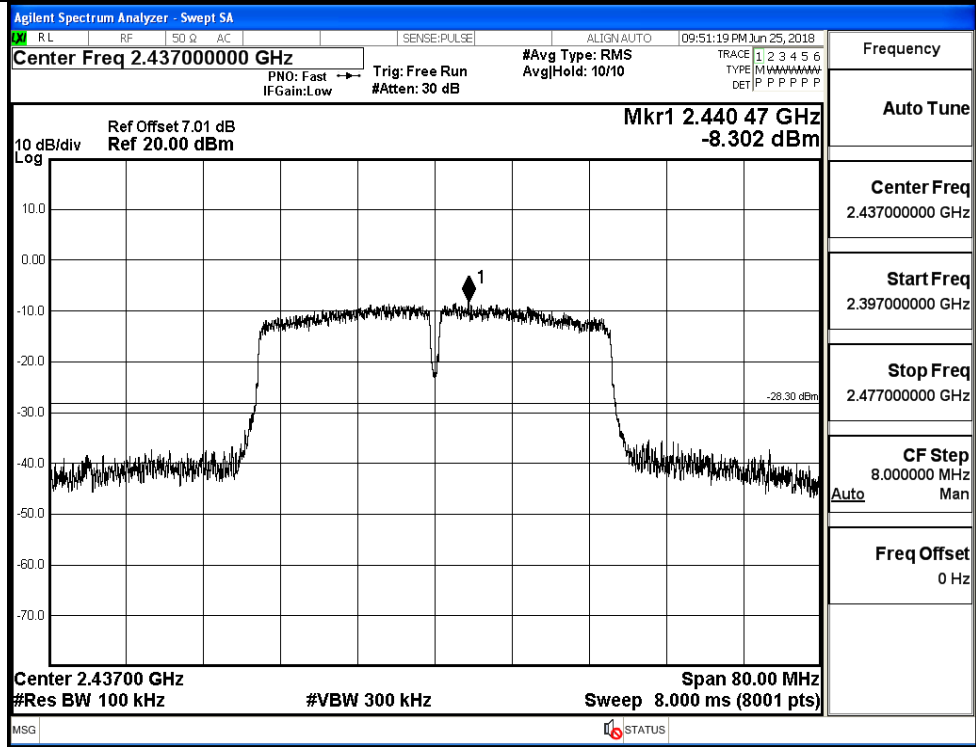


Puw/11N40  
SISO/LCH

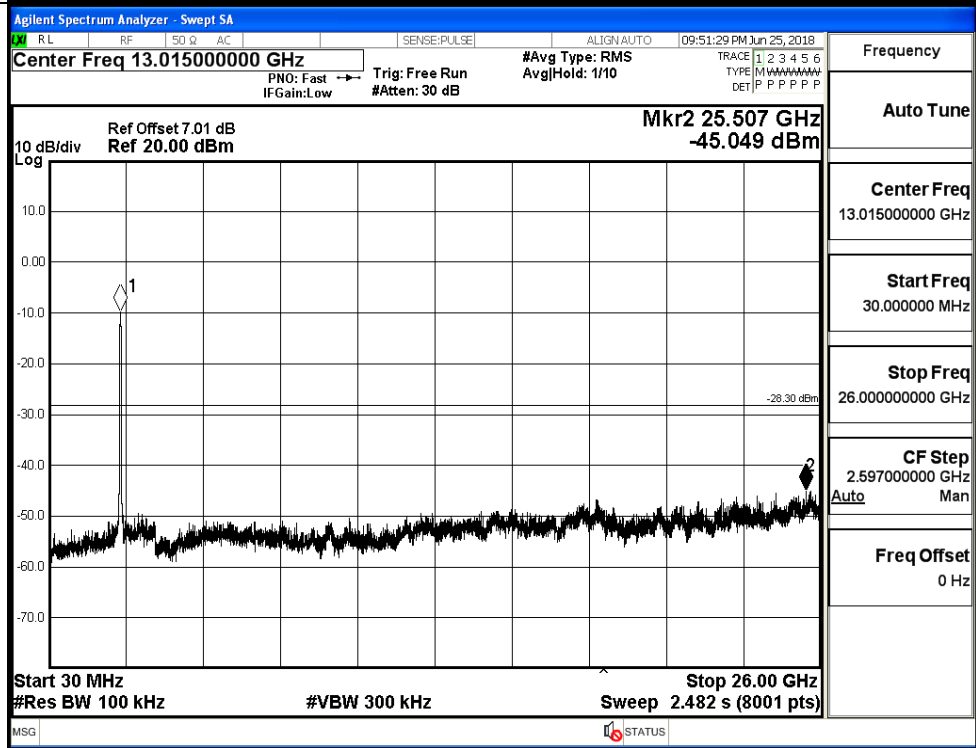


11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCH

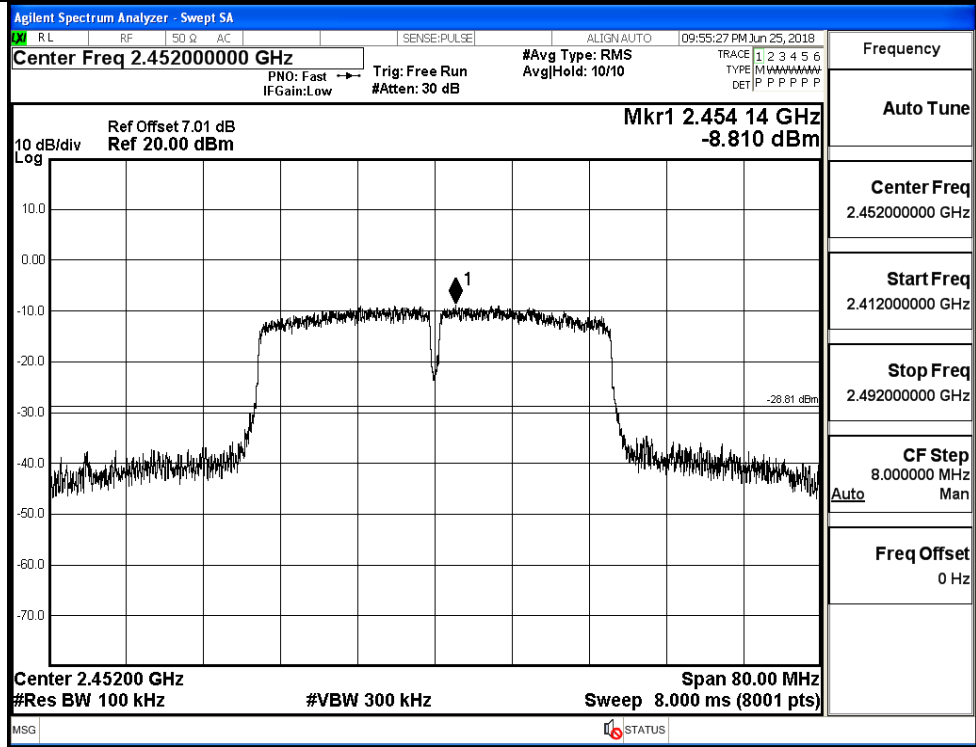


Puw/11N40  
SISO/MCH

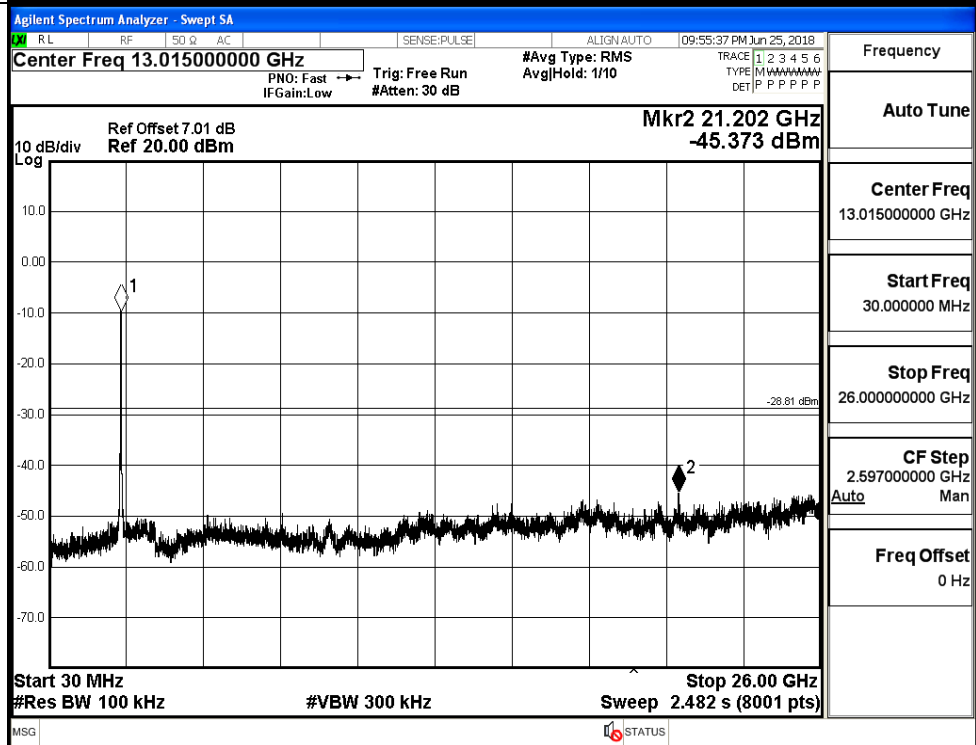


11N40SISO\_HCH\_Graphs

Pref/11N40  
SISO/HCH

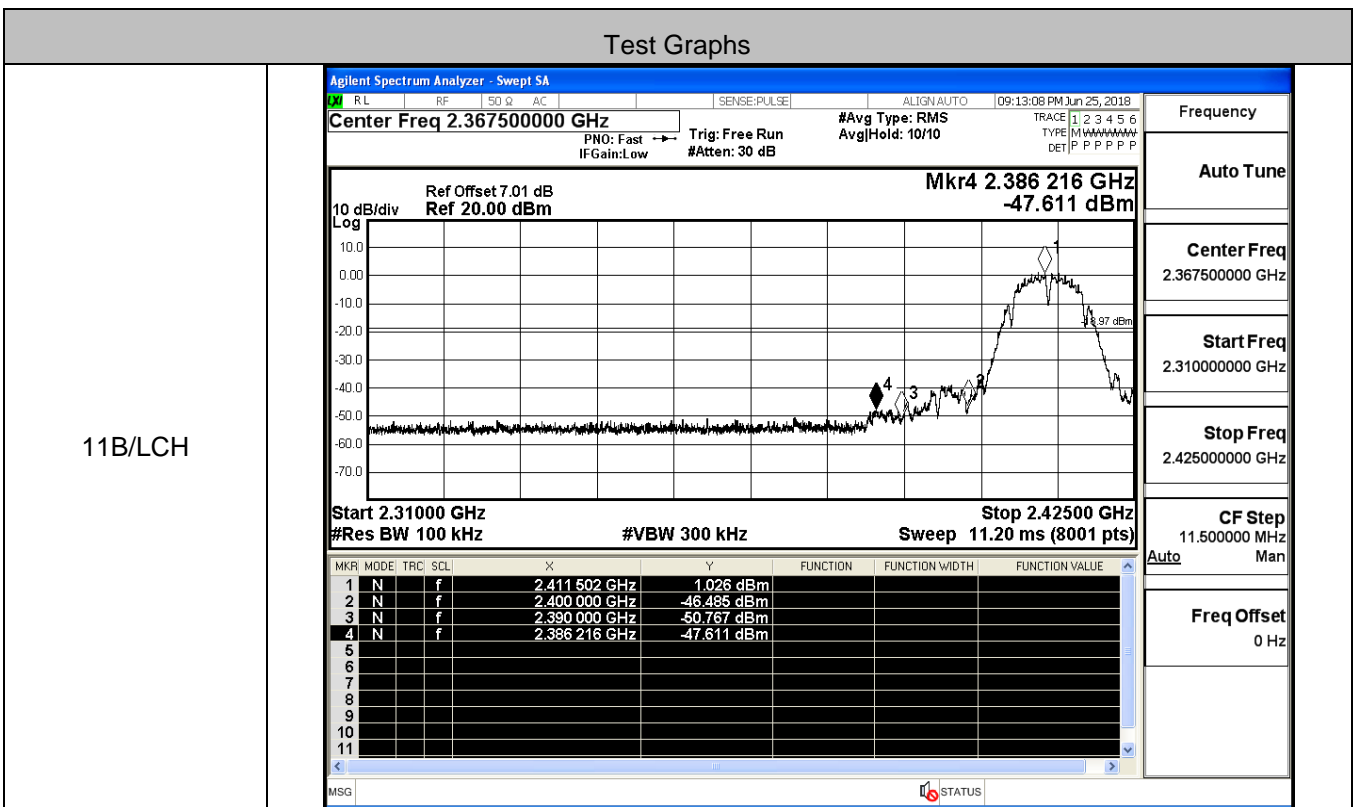


Puw/11N40  
SISO/HCH

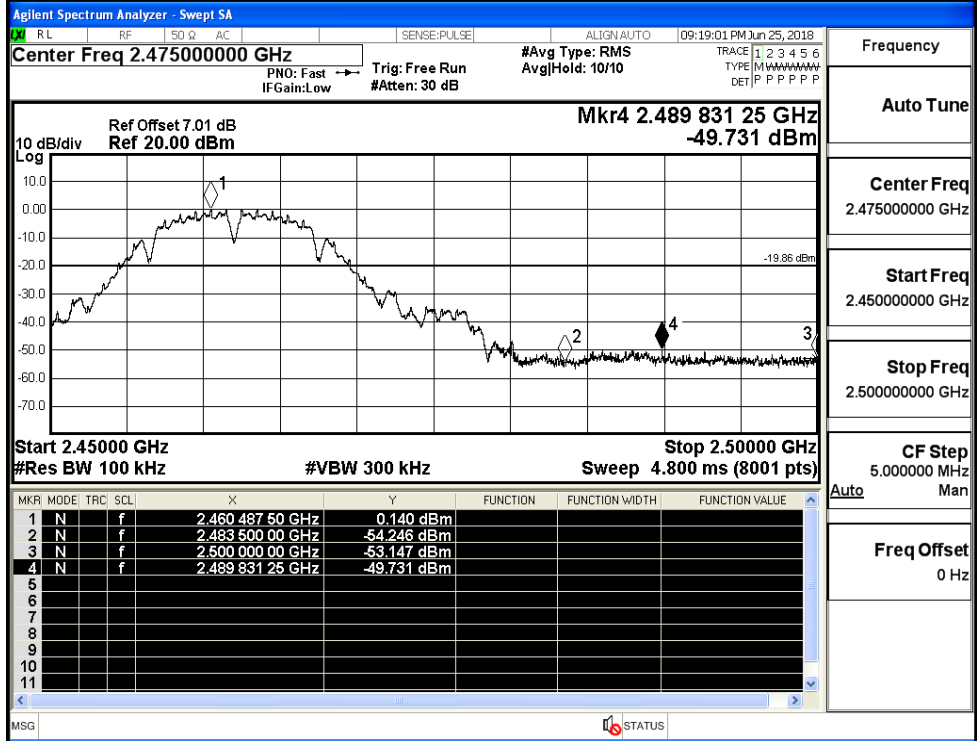


### A.5 Band-edge for RF Conducted Emissions

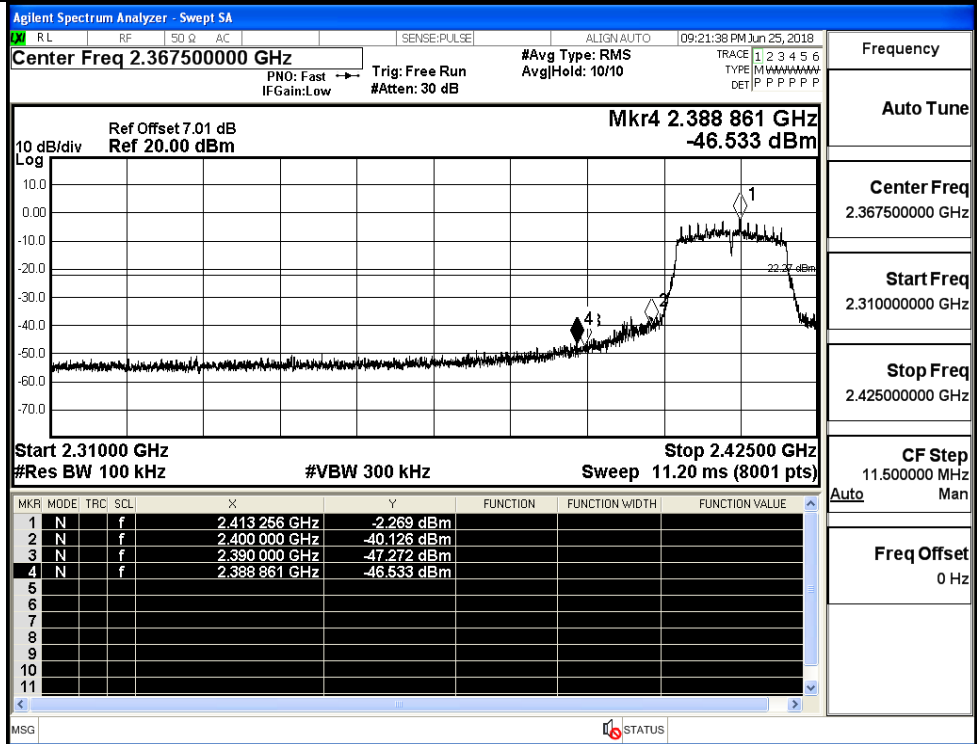
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.026	-47.611	-18.97	PASS
	HCH	0.140	-49.731	-19.86	PASS
11G	LCH	-2.269	-46.533	-22.27	PASS
	HCH	-5.172	-43.636	-25.17	PASS
11N20SISO	LCH	-4.049	-39.668	-24.05	PASS
	HCH	-5.064	-41.936	-25.06	PASS
11N40SISO	LCH	-8.065	-36.441	-28.07	PASS
	HCH	-8.677	-38.557	-28.68	PASS



11B/HCH

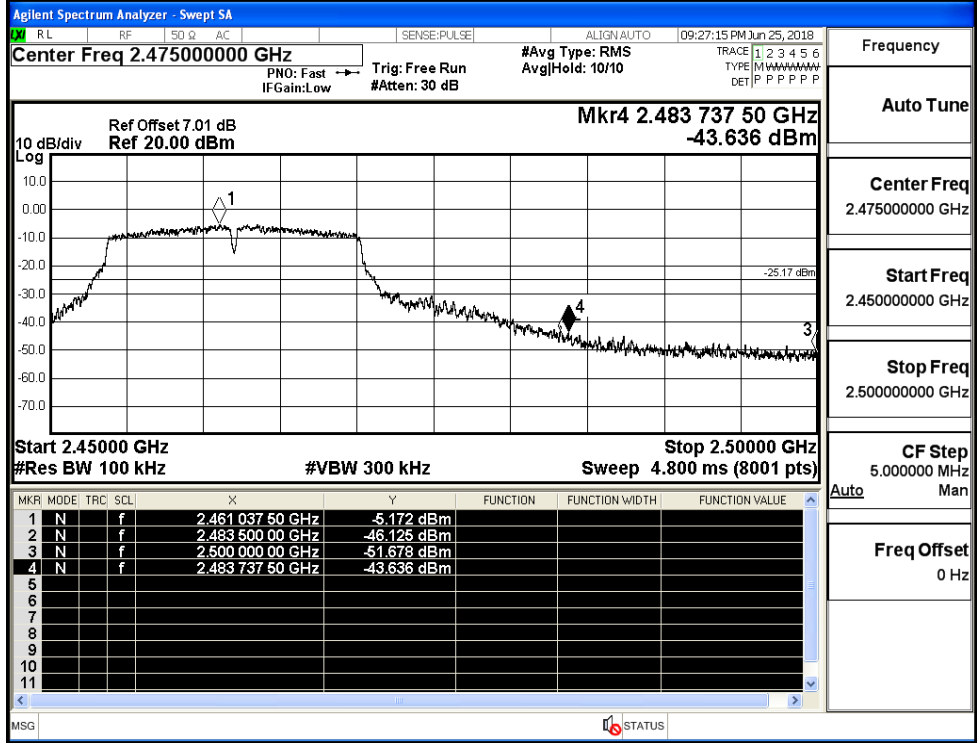


11G/LCH



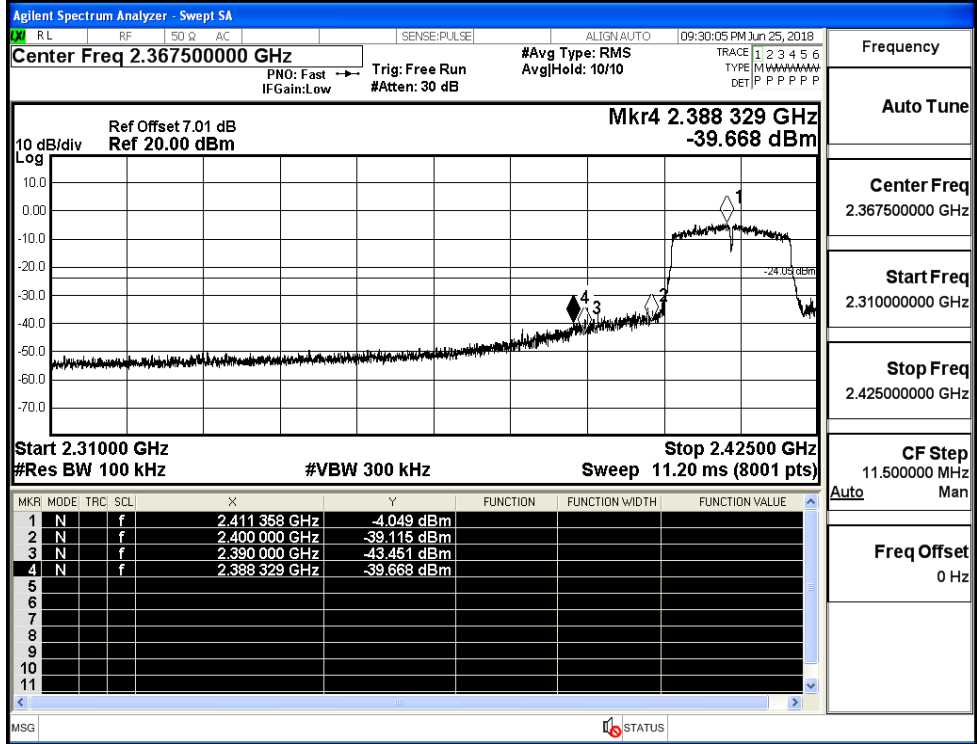


11G/HCH



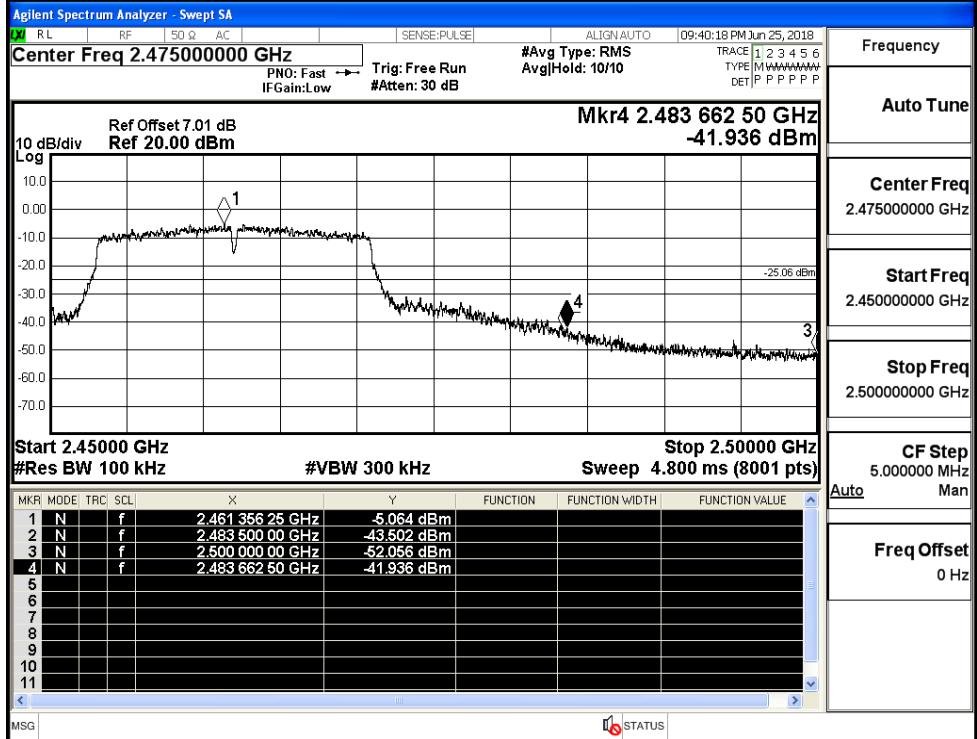
Frequency	Auto Tune
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N20SISO/LCH



Frequency	Auto Tune
Center Freq	2.36750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.42500000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

11N20SISO/HCH



Frequency

Auto Tune

Center Freq  
2.47500000 GHz

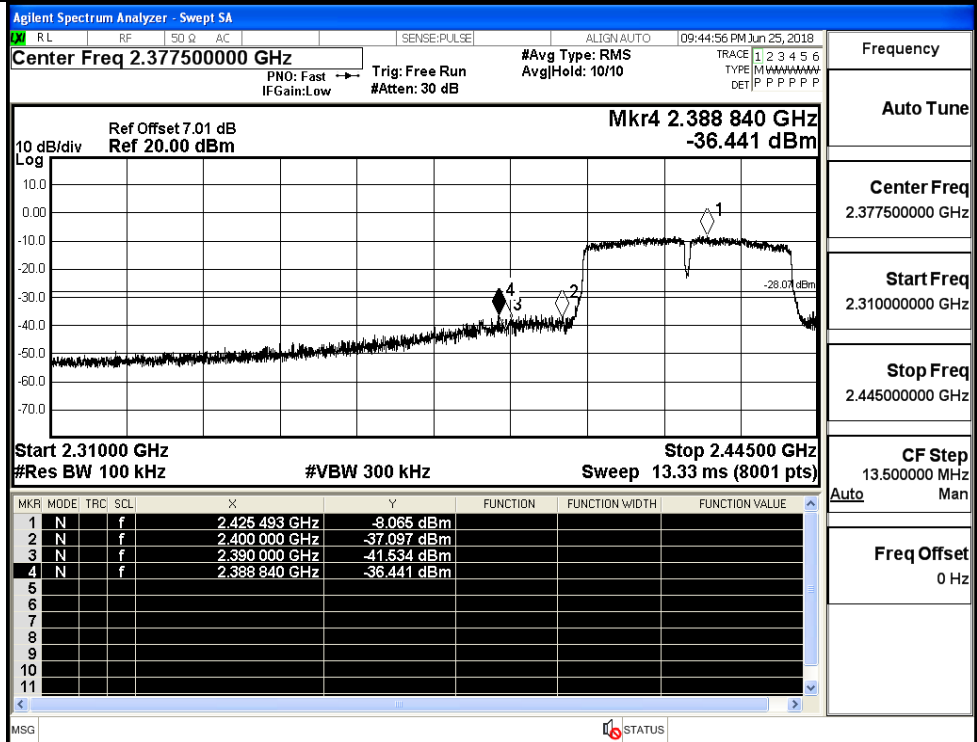
Start Freq  
2.45000000 GHz

Stop Freq  
2.50000000 GHz

CF Step  
5.000000 MHz

Freq Offset  
0 Hz

11N40SISO/LCH



Frequency

Auto Tune

Center Freq  
2.37750000 GHz

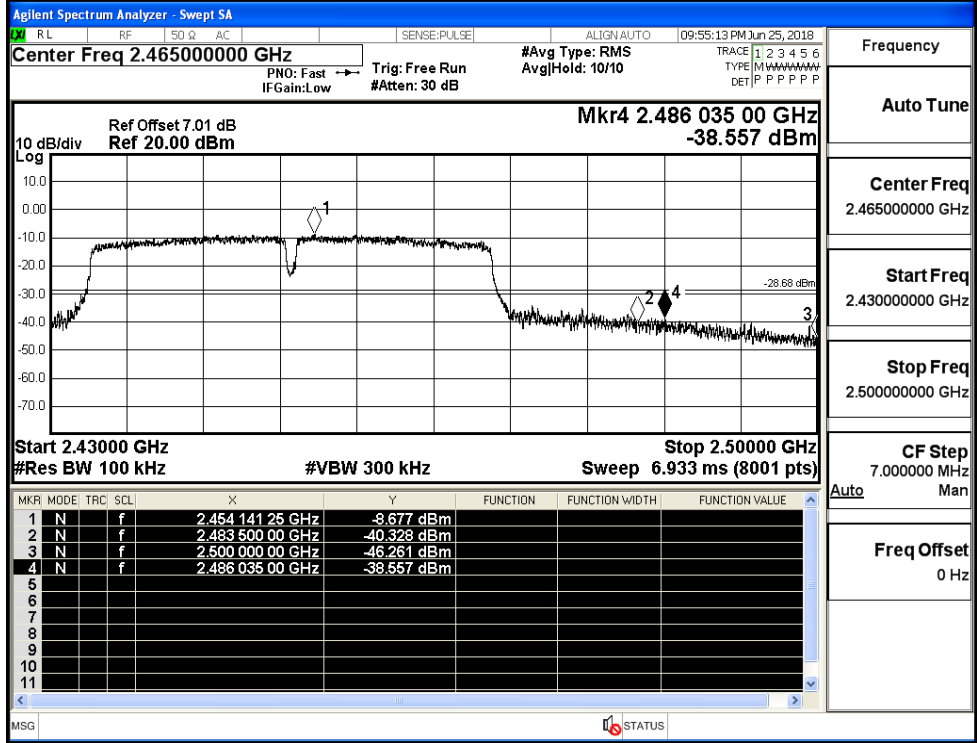
Start Freq  
2.31000000 GHz

Stop Freq  
2.44500000 GHz

CF Step  
13.500000 MHz

Freq Offset  
0 Hz

11N40SISO/HCH

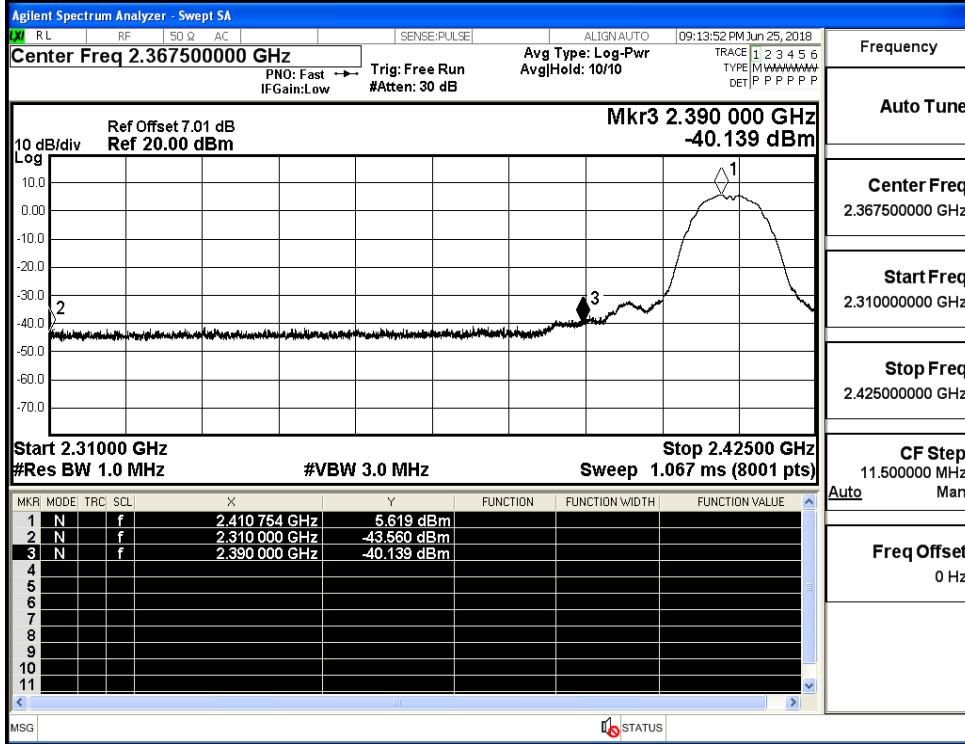


## A.6 Restrict-band band-edge measurements

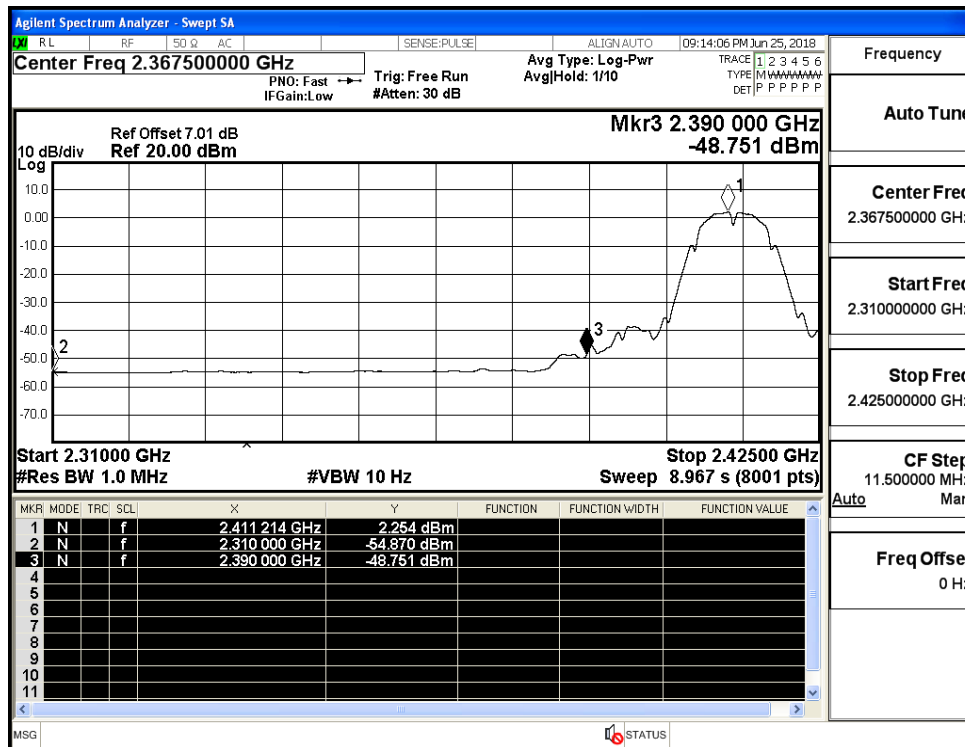
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-43.56	2.5	0	54.14	PEAK	74	PASS
	2412	Ant1	2310.0	-54.87	2.5	0	42.83	AV	54	PASS
	2412	Ant1	2390.0	-40.14	2.5	0	57.56	PEAK	74	PASS
	2412	Ant1	2390.0	-48.75	2.5	0	48.95	AV	54	PASS
	2462	Ant1	2483.5	-42.31	2.5	0	55.39	PEAK	74	PASS
	2462	Ant1	2483.5	-54.36	2.5	0	43.34	AV	54	PASS
	2462	Ant1	2500.0	-43.95	2.5	0	53.75	PEAK	74	PASS
	2462	Ant1	2500.0	-54.28	2.5	0	43.42	AV	54	PASS
11G	2412	Ant1	2310.0	-45.10	2.5	0	52.60	PEAK	74	PASS
	2412	Ant1	2310.0	-54.82	2.5	0	42.88	AV	54	PASS
	2412	Ant1	2390.0	-36.58	2.5	0	61.12	PEAK	74	PASS
	2412	Ant1	2390.0	-49.95	2.5	0	47.75	AV	54	PASS
	2462	Ant1	2483.5	-33.49	2.5	0	64.21	PEAK	74	PASS
	2462	Ant1	2483.5	-47.74	2.5	0	49.96	AV	54	PASS
	2462	Ant1	2500.0	-40.91	2.5	0	56.79	PEAK	74	PASS
	2462	Ant1	2500.0	-52.64	2.5	0	45.06	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.67	2.5	0	53.03	PEAK	74	PASS
	2412	Ant1	2310.0	-54.46	2.5	0	43.24	AV	54	PASS
	2412	Ant1	2390.0	-27.92	2.5	0	69.78	PEAK	74	PASS
	2412	Ant1	2390.0	-44.45	2.5	0	53.25	AV	54	PASS
	2462	Ant1	2483.5	-29.73	2.5	0	67.97	PEAK	74	PASS
	2462	Ant1	2483.5	-46.37	2.5	0	51.33	AV	54	PASS
	2462	Ant1	2500.0	-41.18	2.5	0	56.52	PEAK	74	PASS
	2462	Ant1	2500.0	-52.67	2.5	0	45.03	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.83	2.5	0	53.87	PEAK	74	PASS
	2422	Ant1	2310.0	-54.87	2.5	0	42.83	AV	54	PASS

	2422	Ant1	2390.0	-36.12	2.5	0	61.58	PEAK	74	PASS
	2422	Ant1	2390.0	-47.43	2.5	0	50.27	AV	54	PASS
	2452	Ant1	2483.5	-42.00	2.5	0	55.70	PEAK	74	PASS
	2452	Ant1	2483.5	-53.45	2.5	0	44.25	AV	54	PASS
	2452	Ant1	2500.0	-42.67	2.5	0	55.03	PEAK	74	PASS
	2452	Ant1	2500.0	-54.06	2.5	0	43.64	AV	54	PASS

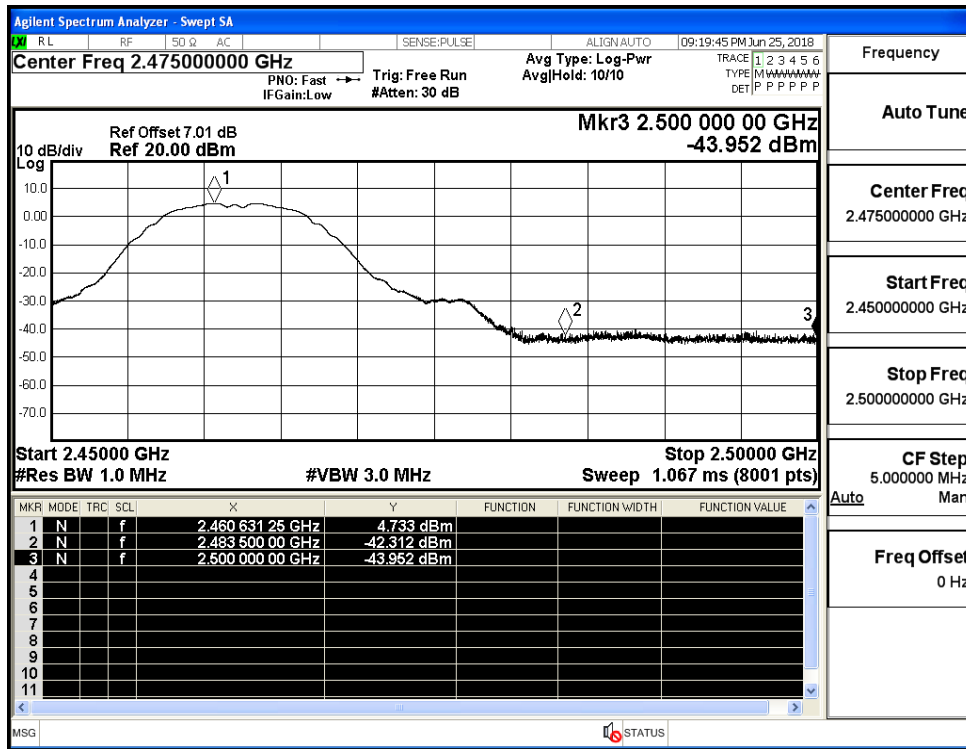
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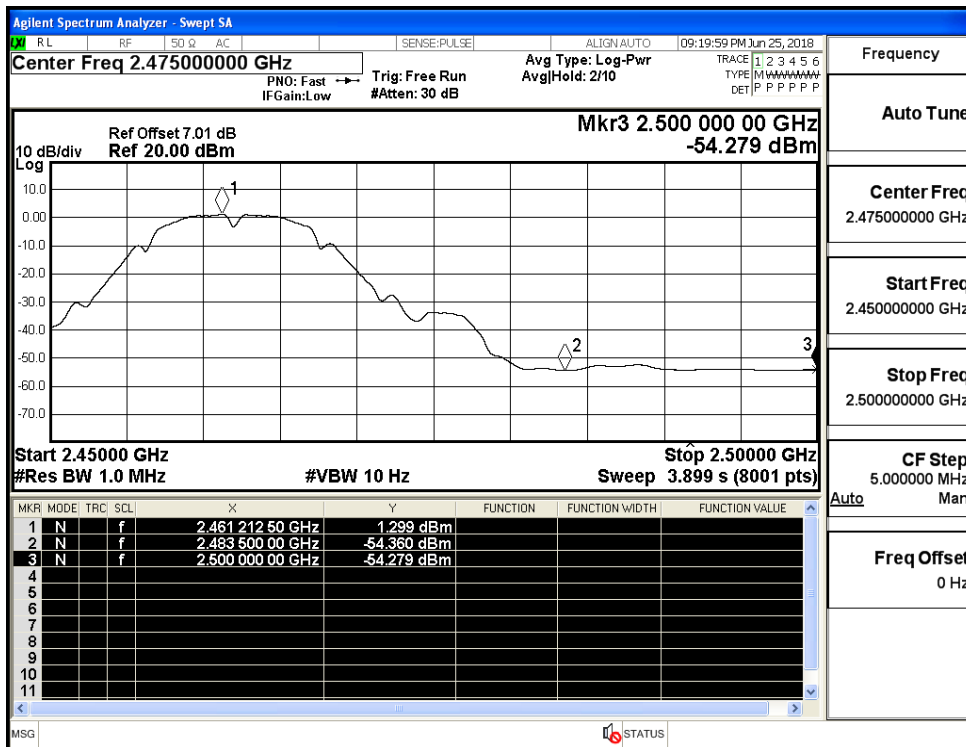
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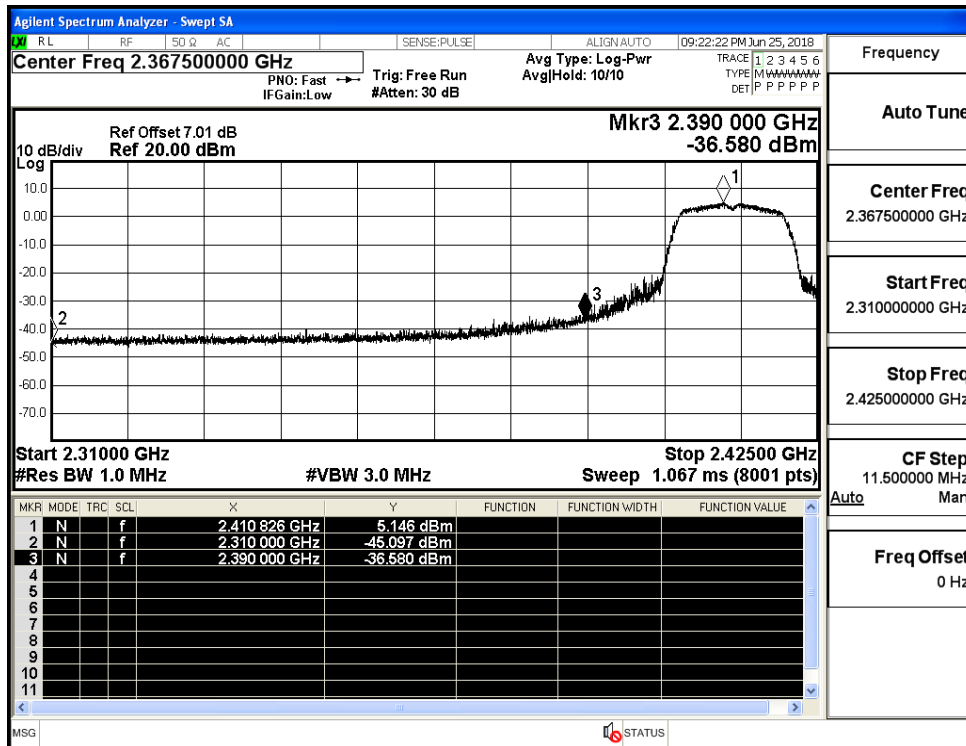
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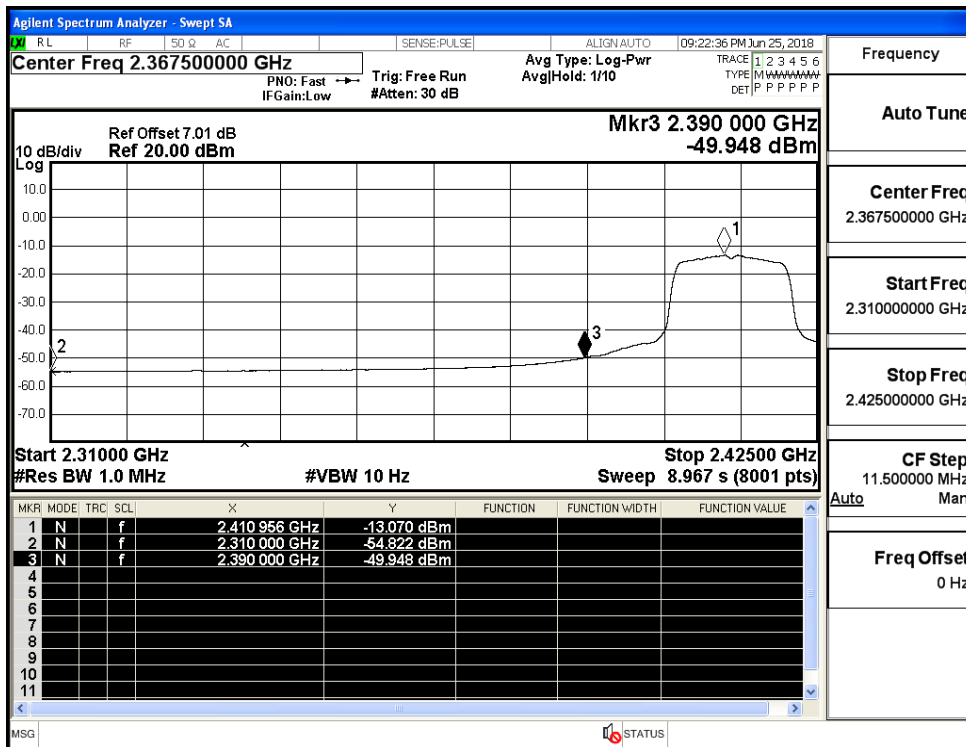
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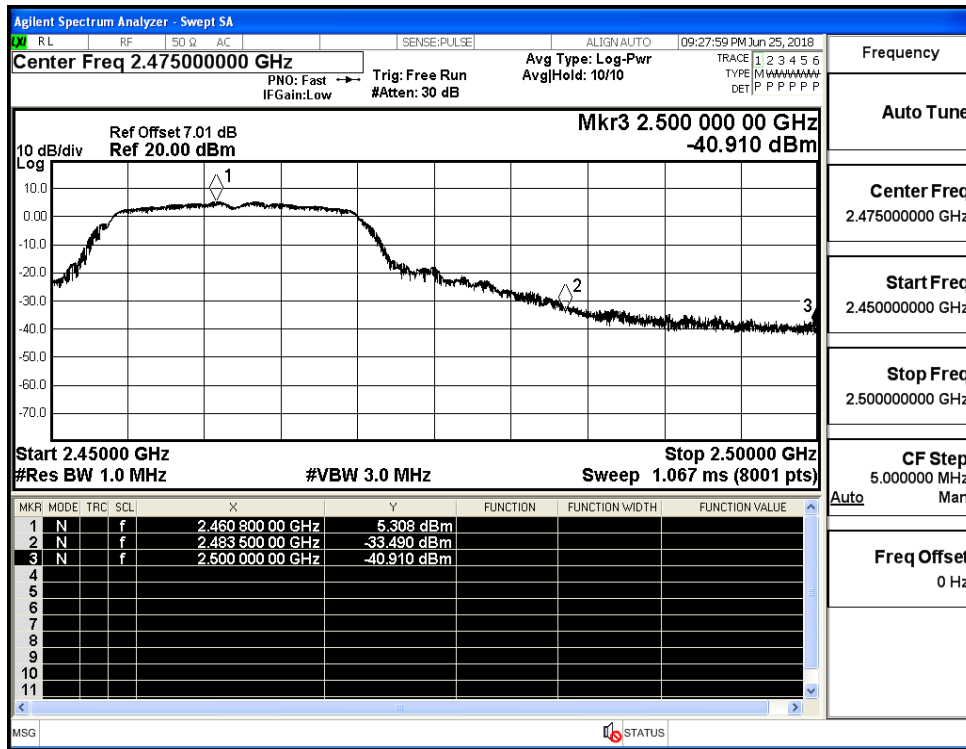


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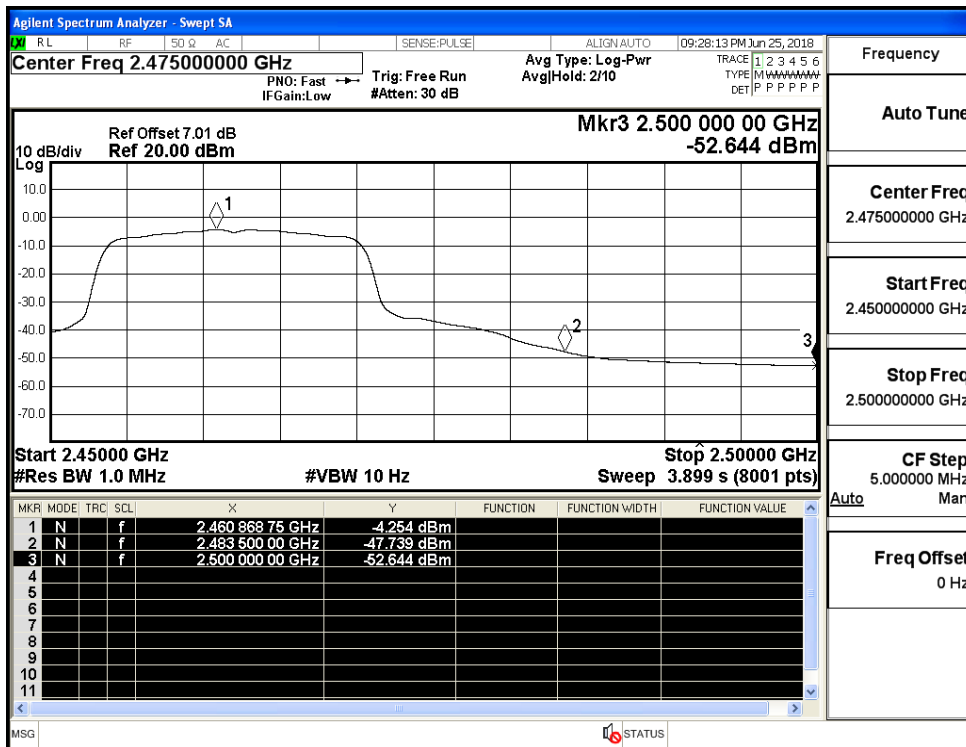




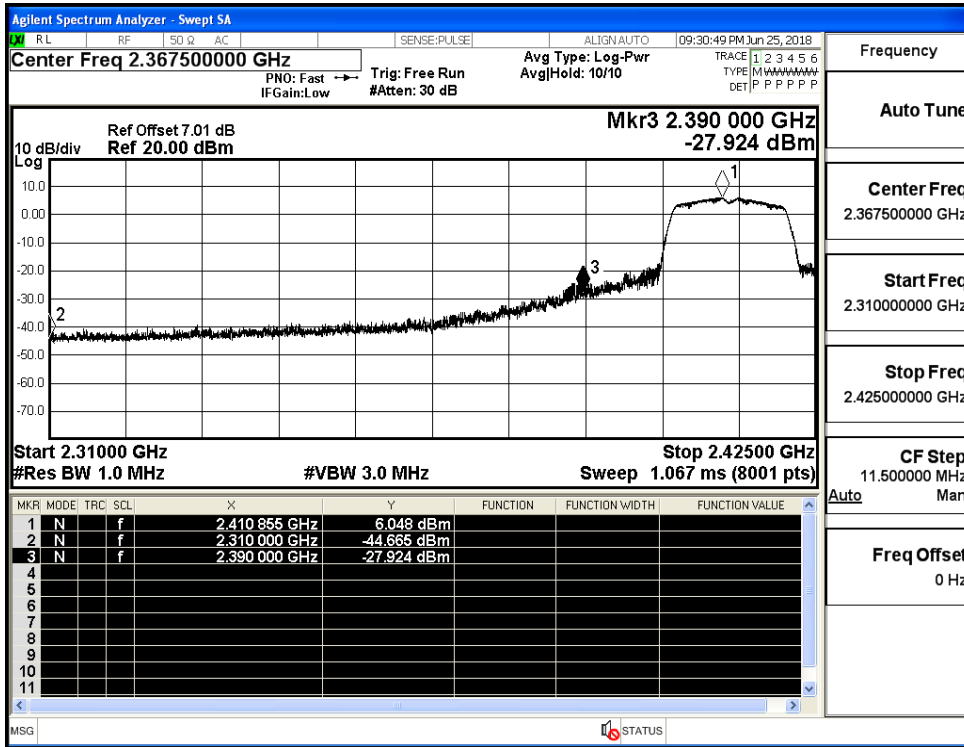
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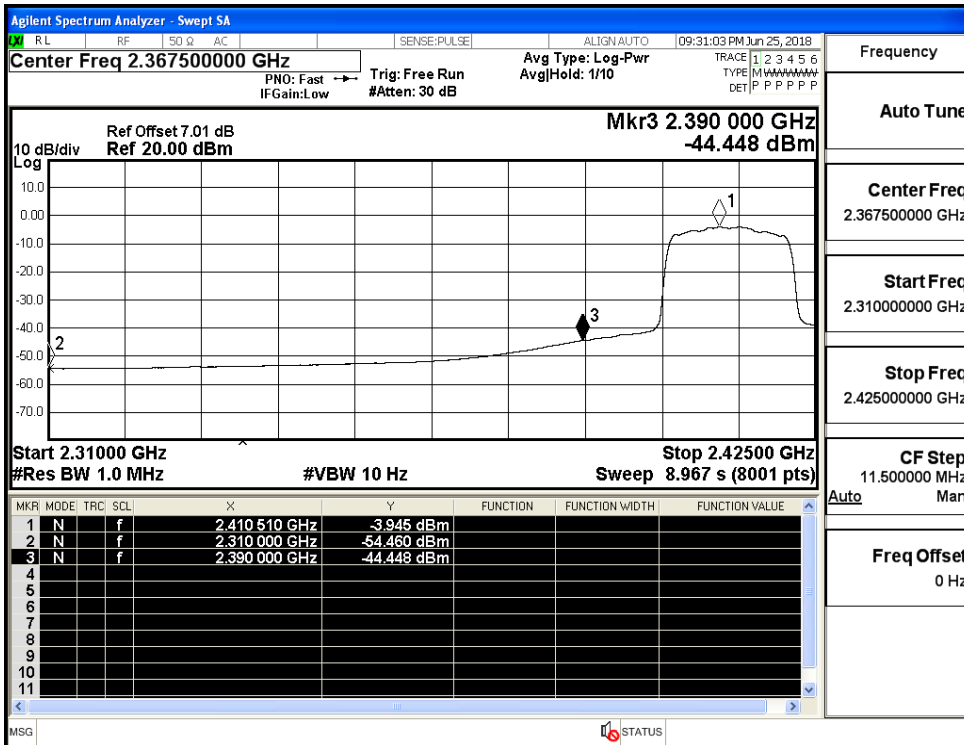
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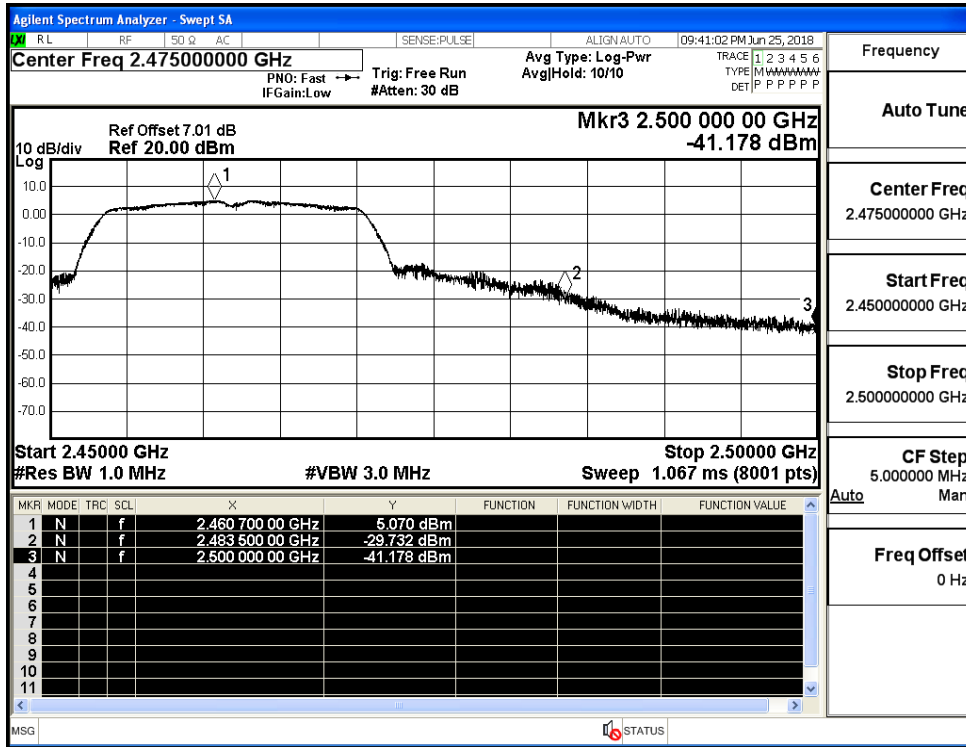
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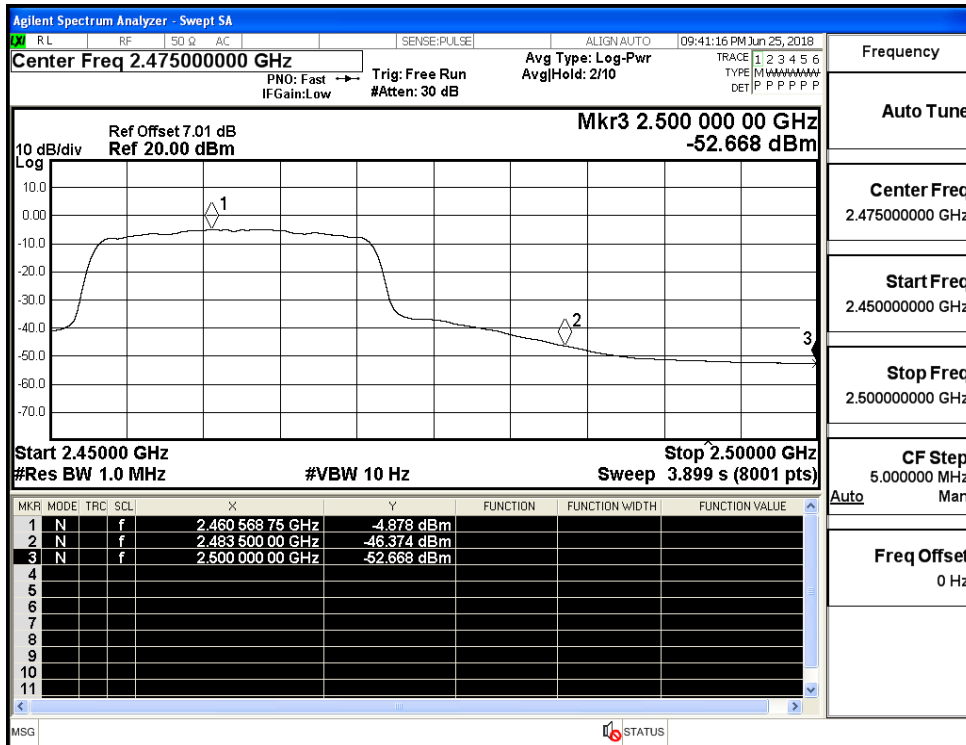
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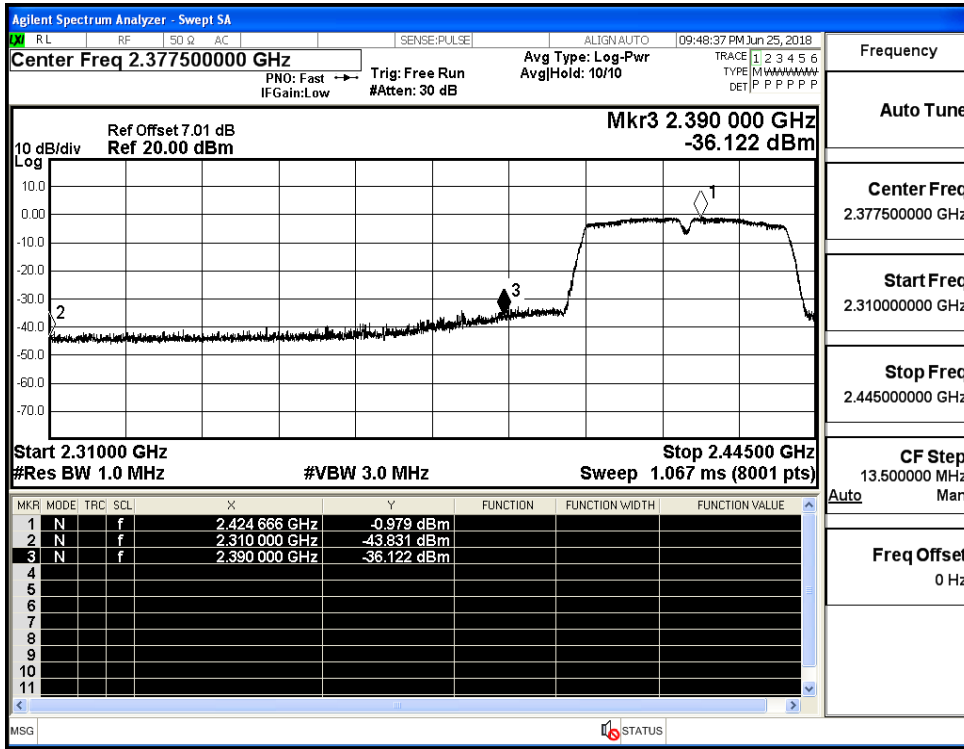
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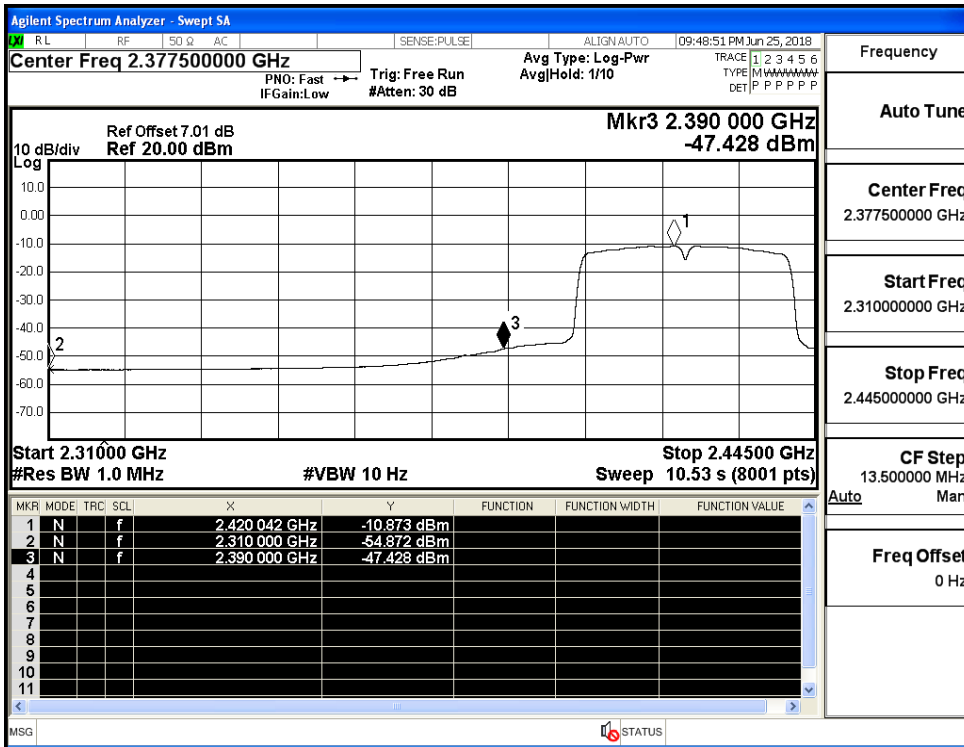
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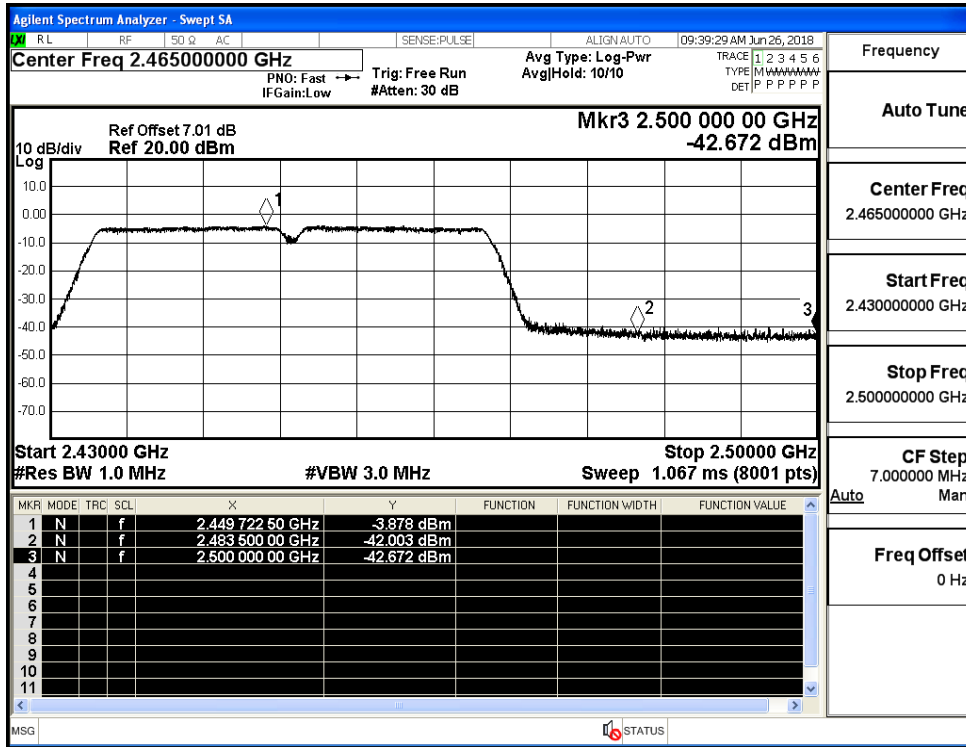
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Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV

