

## Appendix A

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

**Product Name: Wifi Camera**

**Trade Mark: SecuEasy**

**Test Model: SE-ND201PT**

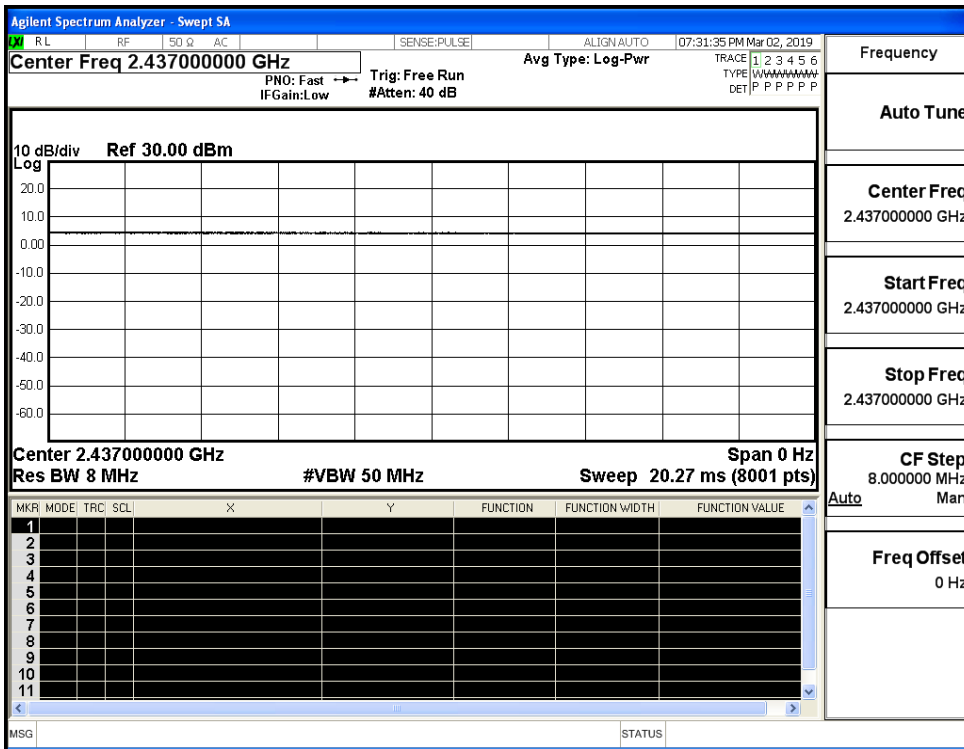
#### Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	DiamondLu
Supervised by:	Jayden.Zhuo

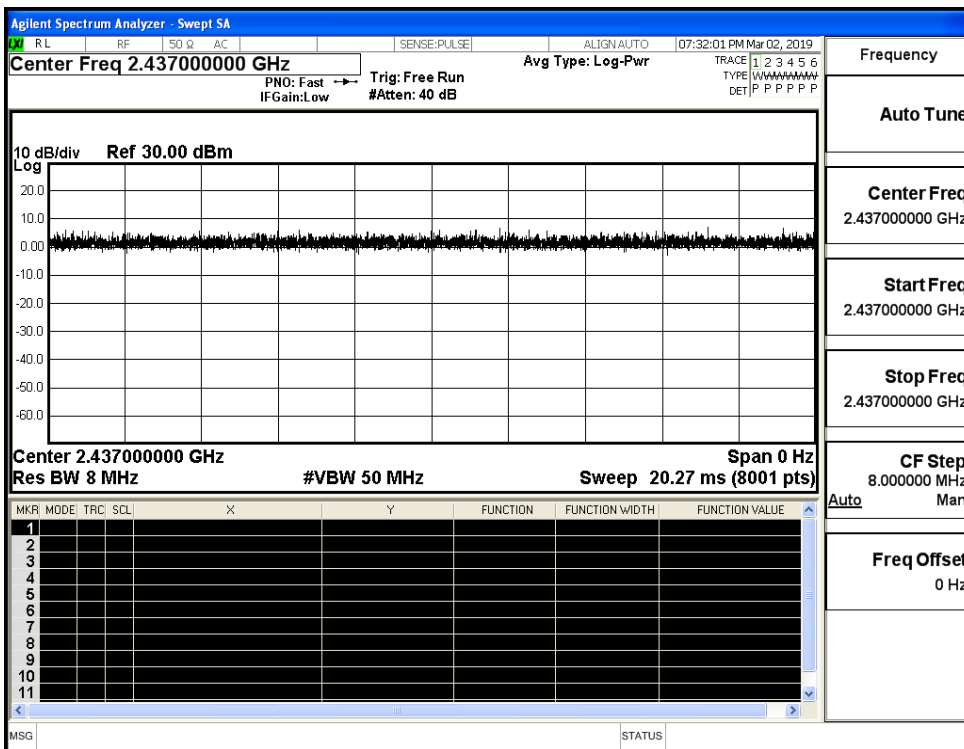
#### A.1 Duty Cycle

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

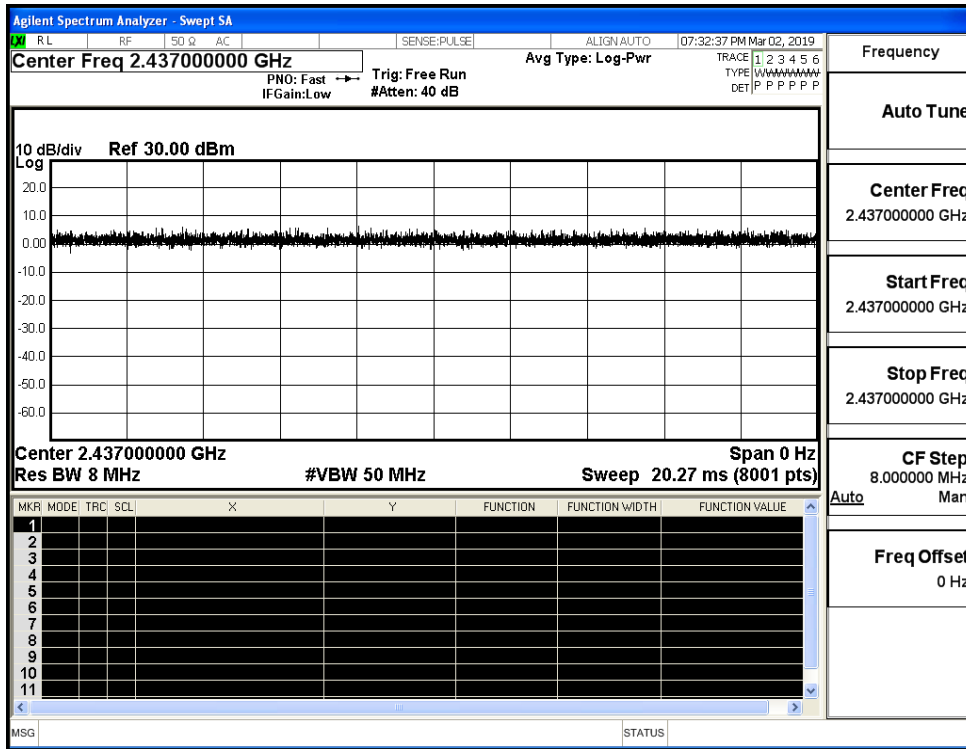
Duty Cycle\_11B\_2437\_Ant1



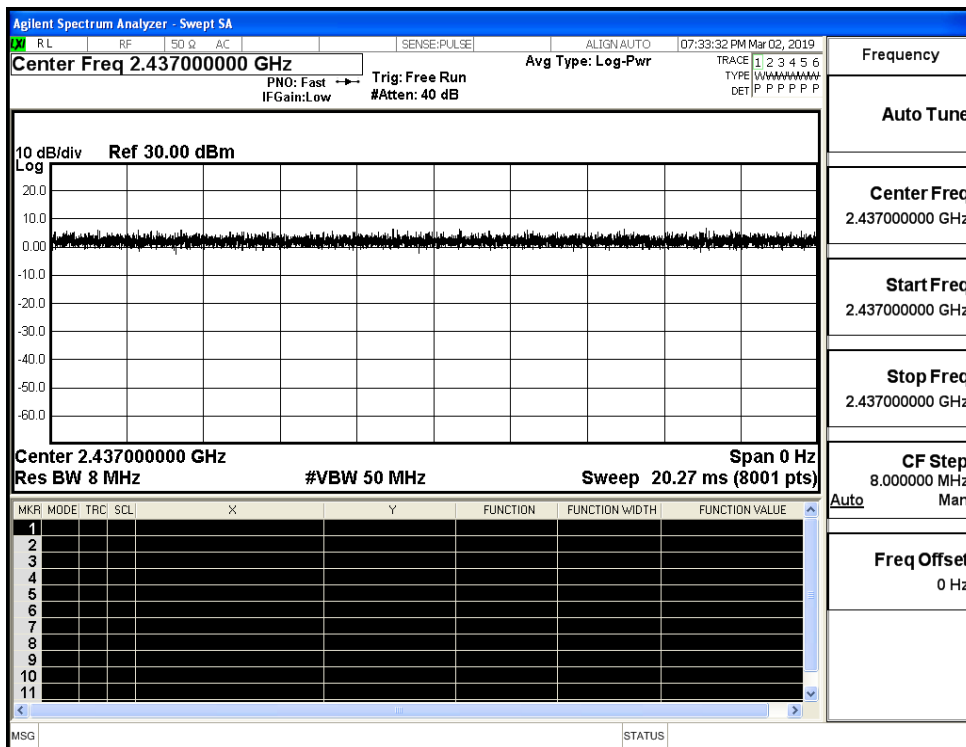
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1

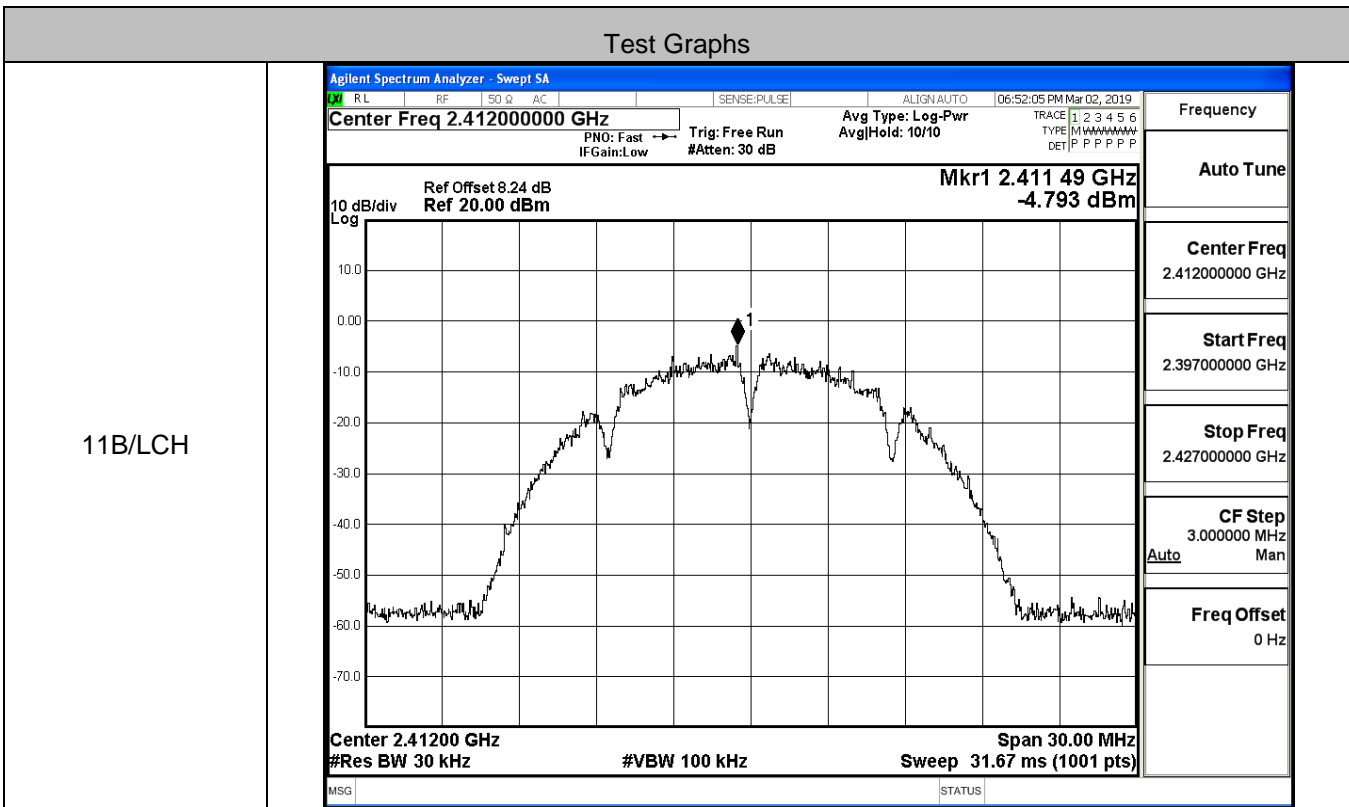


## A.2 Maximum Conducted Output Power

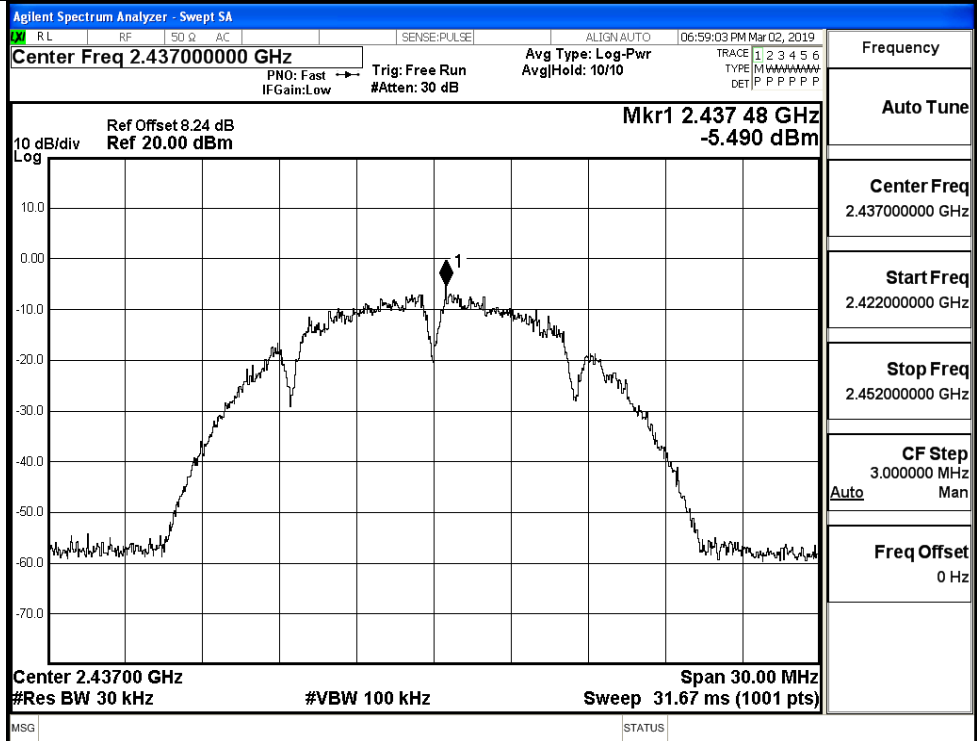
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	10.32	30	PASS
	MCH	9.98	30	PASS
	HCH	8.57	30	PASS
11G	LCH	8.59	30	PASS
	MCH	8.67	30	PASS
	HCH	8.86	30	PASS
11N20SISO	LCH	8.58	30	PASS
	MCH	8.55	30	PASS
	HCH	8.09	30	PASS
11N40SISO	LCH	10.39	30	PASS
	MCH	9.45	30	PASS
	HCH	8.69	30	PASS

### A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-4.793	8	PASS
	MCH	-5.490	8	PASS
	HCH	-7.094	8	PASS
11G	LCH	-13.810	8	PASS
	MCH	-13.919	8	PASS
	HCH	-14.868	8	PASS
11N20SISO	LCH	-14.415	8	PASS
	MCH	-14.221	8	PASS
	HCH	-14.711	8	PASS
11N40SISO	LCH	-14.703	8	PASS
	MCH	-15.933	8	PASS
	HCH	-17.213	8	PASS

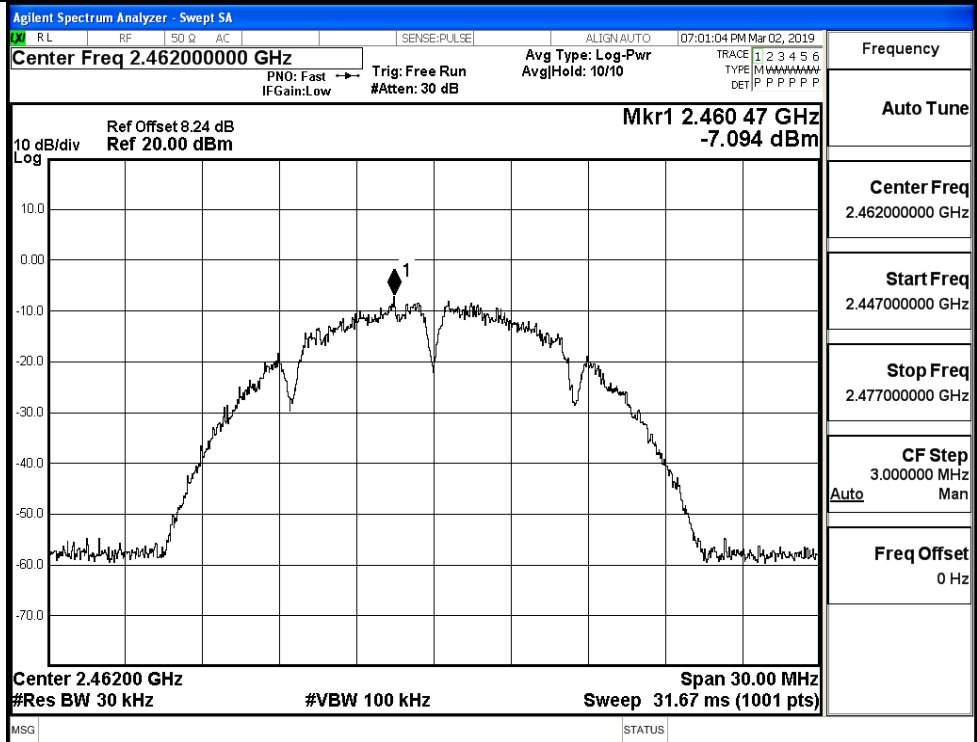


11B/MCH



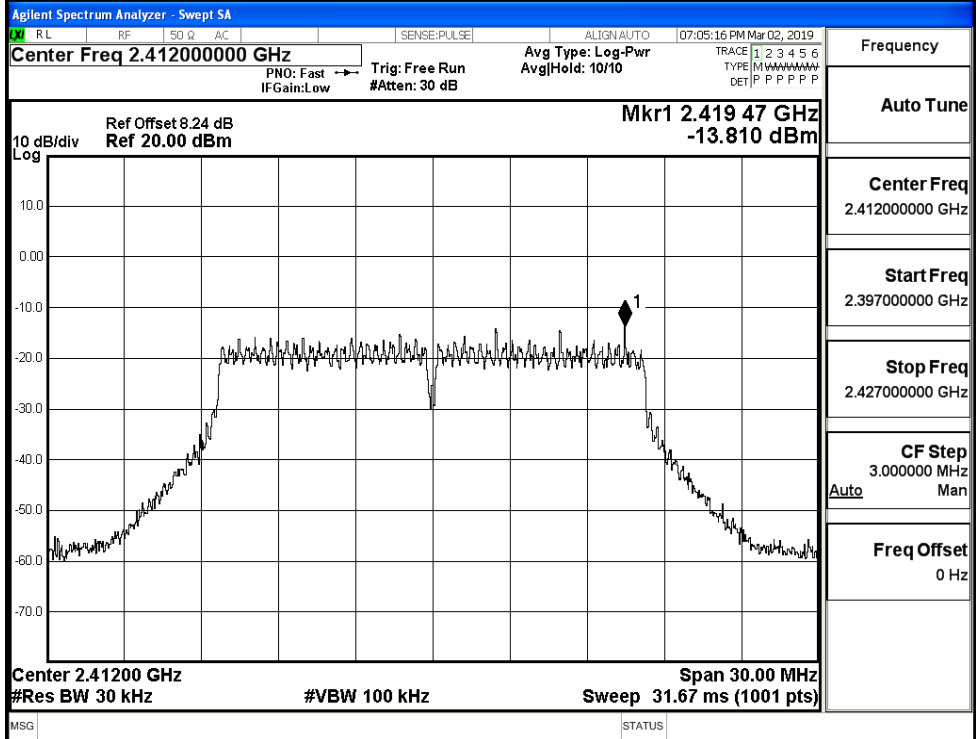
Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.452000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11B/HCH

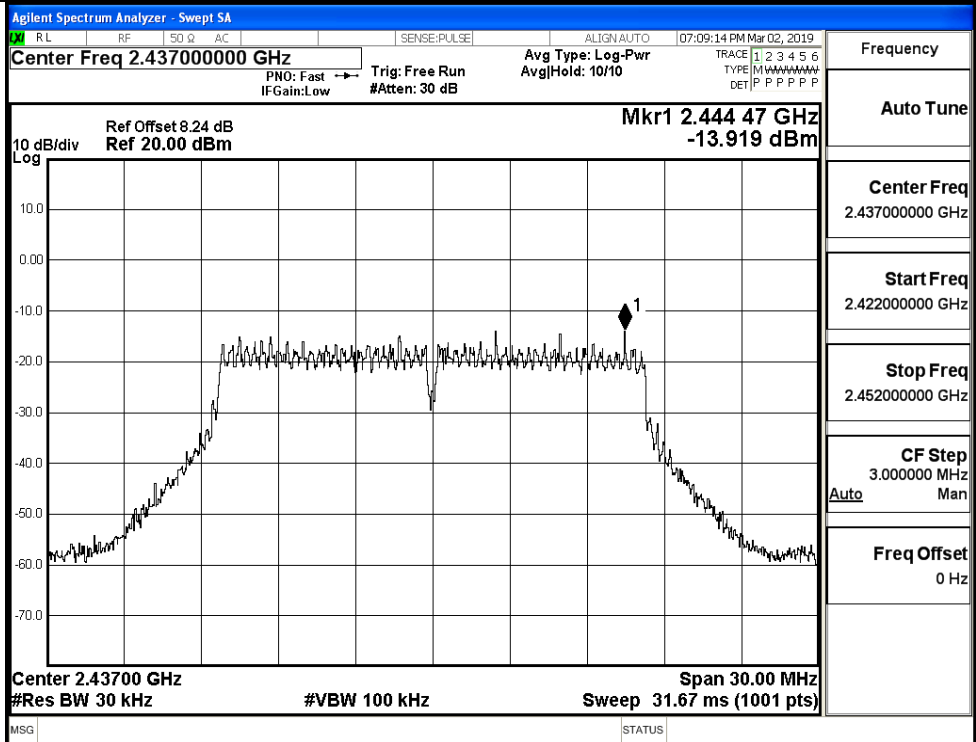


Frequency
Auto Tune
Center Freq 2.46200000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

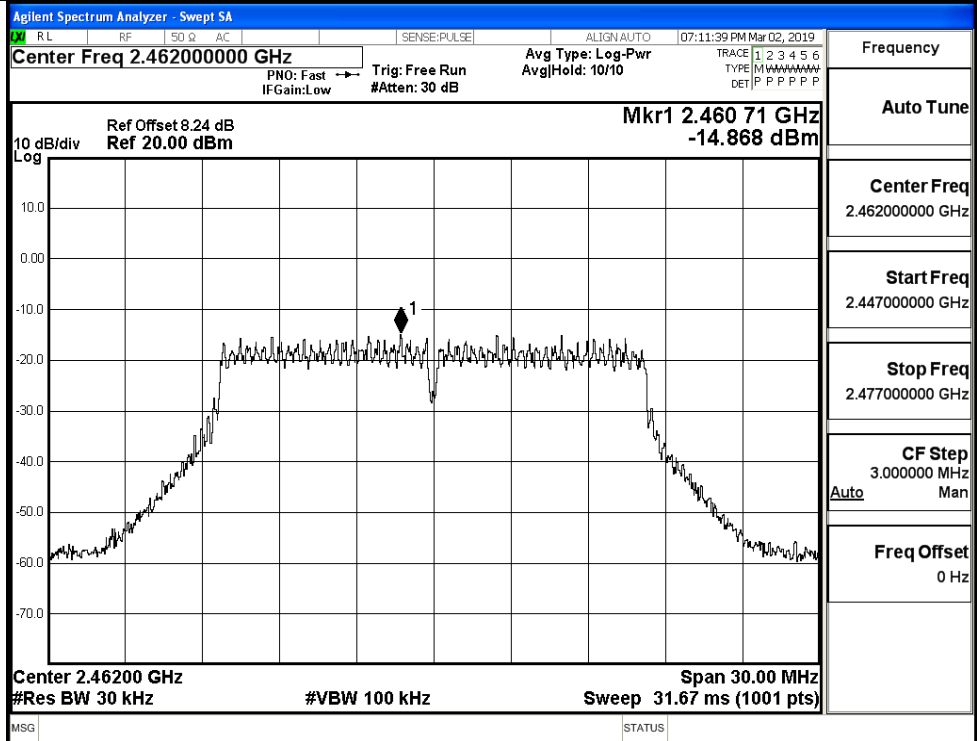
11G/LCH



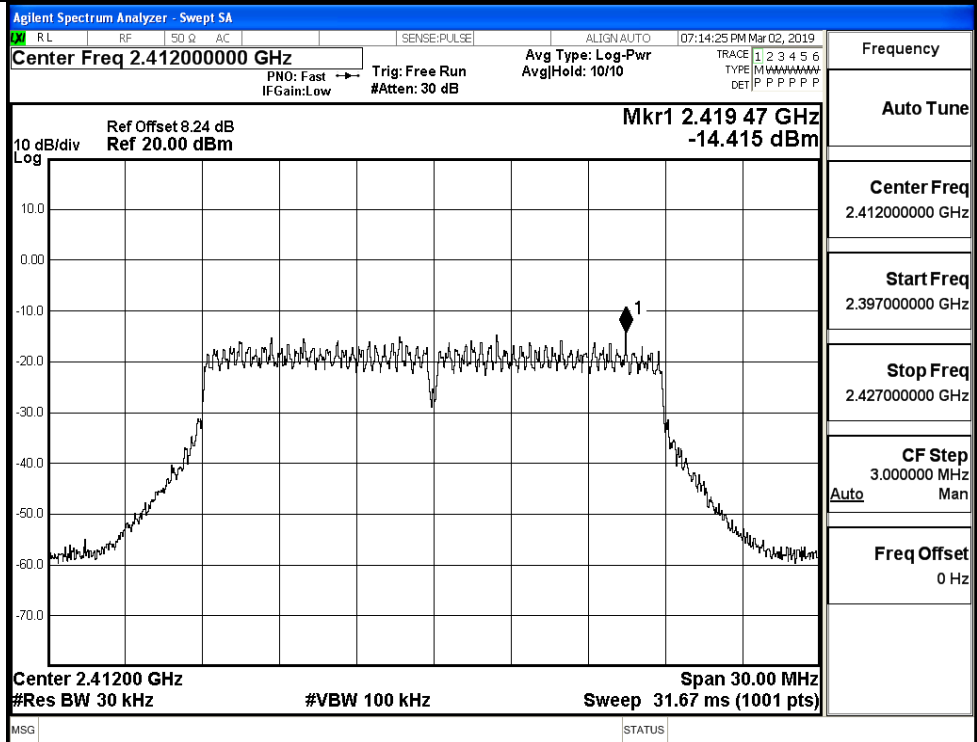
11G/MCH



11G/HCH

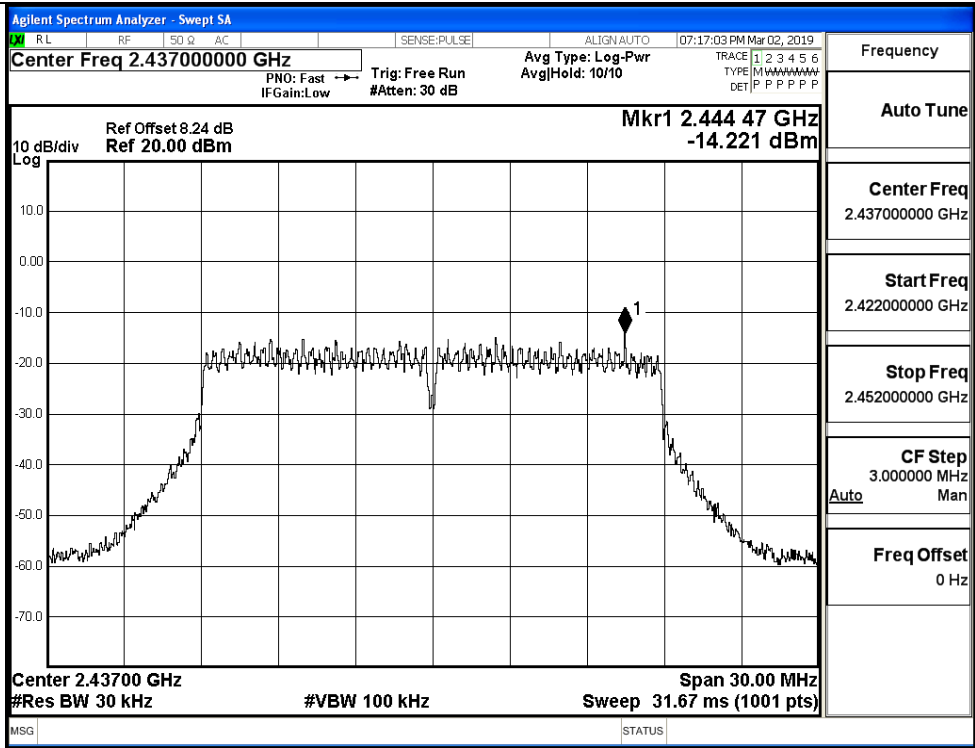


11N20SISO/LCH

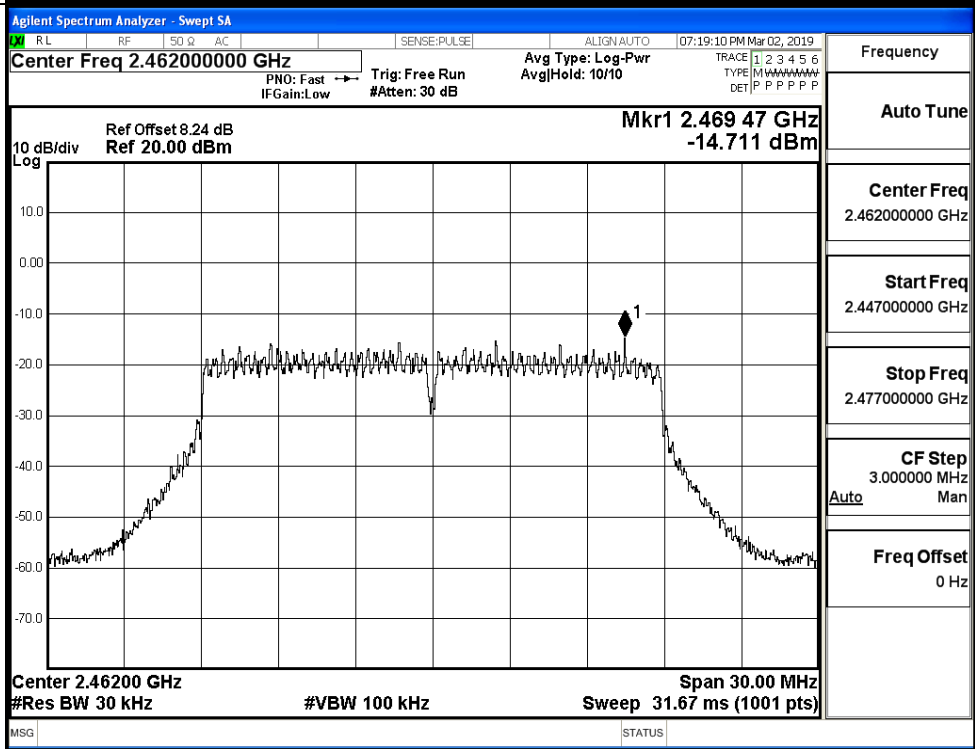




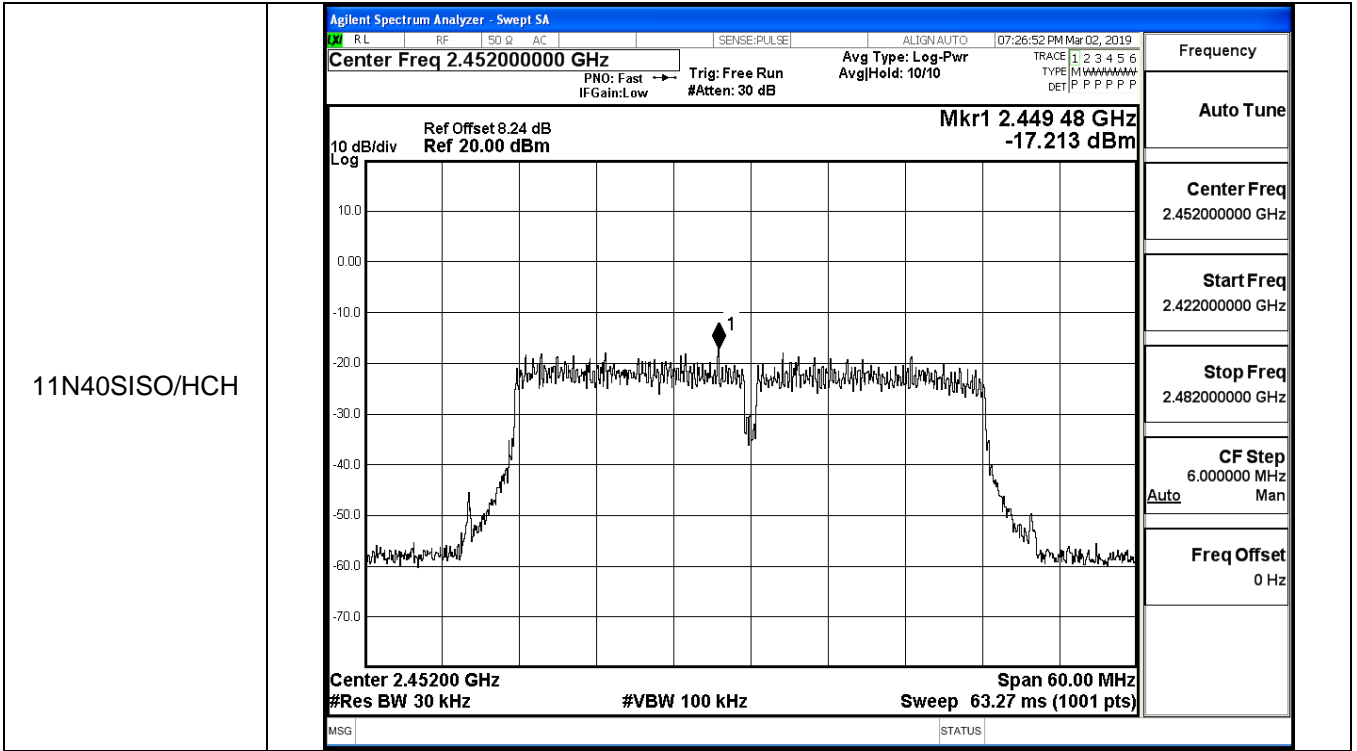
11N20SISO/MCH



11N20SISO/HCH

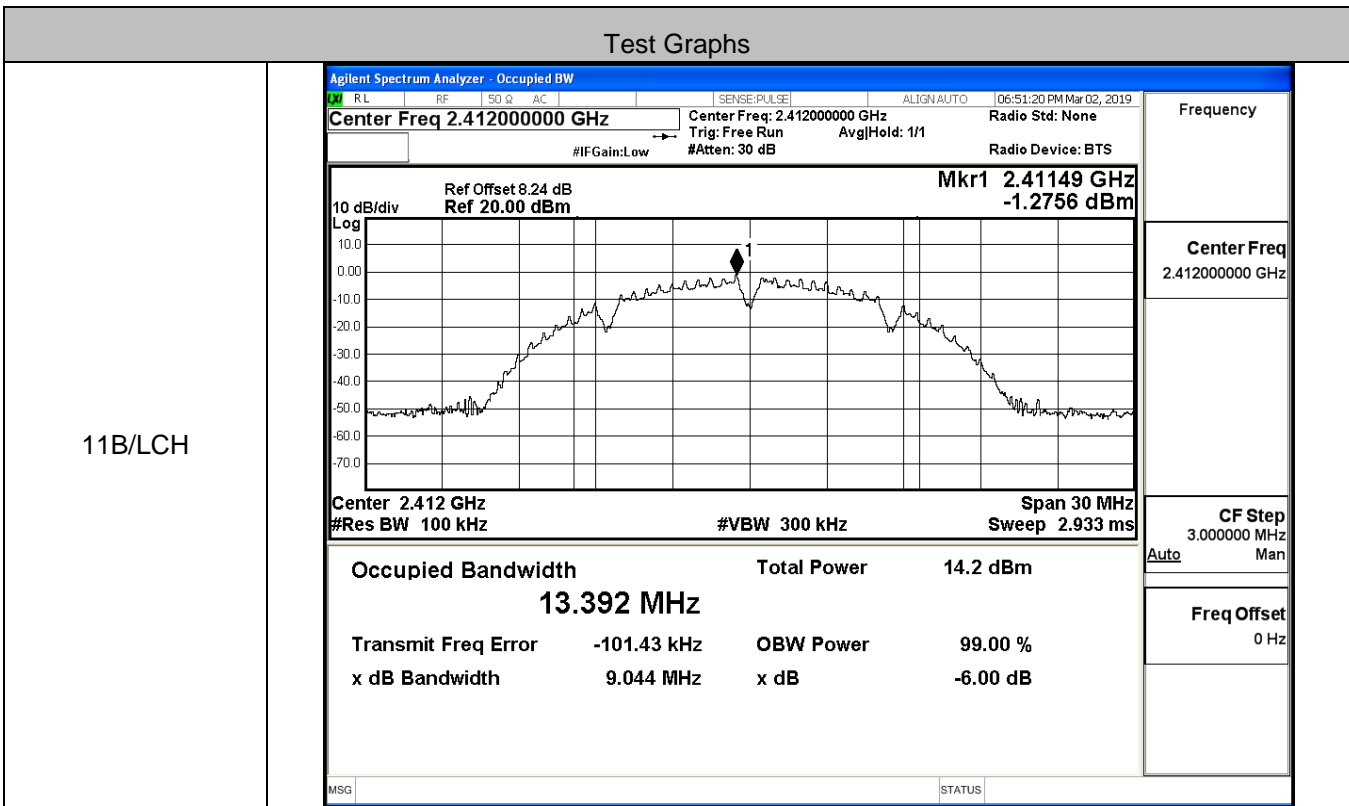


<p>11N40SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.42200000 GHz</p> <p>Ref Offset 8.24 dB Ref 20.00 dBm</p> <p>Mkr1 2.41948 GHz -14.703 dBm</p> <p>10 dB/div Log</p> <p>Center 2.42200 GHz #Res BW 30 kHz</p> <p>Span 60.00 MHz #VBW 100 kHz Sweep 63.27 ms (1001 pts)</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.42200000 GHz</p> <p>Start Freq 2.39200000 GHz</p> <p>Stop Freq 2.45200000 GHz</p> <p>CF Step 6.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>11N40SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 8.24 dB Ref 20.00 dBm</p> <p>Mkr1 2.43448 GHz -15.933 dBm</p> <p>10 dB/div Log</p> <p>Center 2.43700 GHz #Res BW 30 kHz</p> <p>Span 60.00 MHz #VBW 100 kHz Sweep 63.27 ms (1001 pts)</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.43700000 GHz</p> <p>Start Freq 2.40700000 GHz</p> <p>Stop Freq 2.46700000 GHz</p> <p>CF Step 6.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>

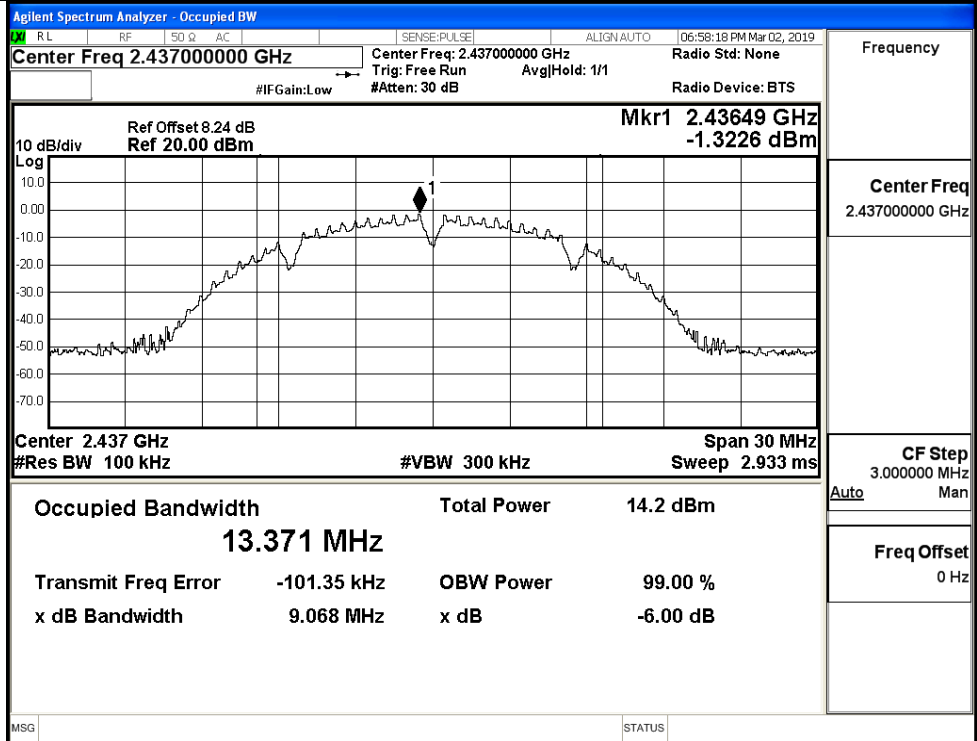


**A.4 6dB Bandwidth**

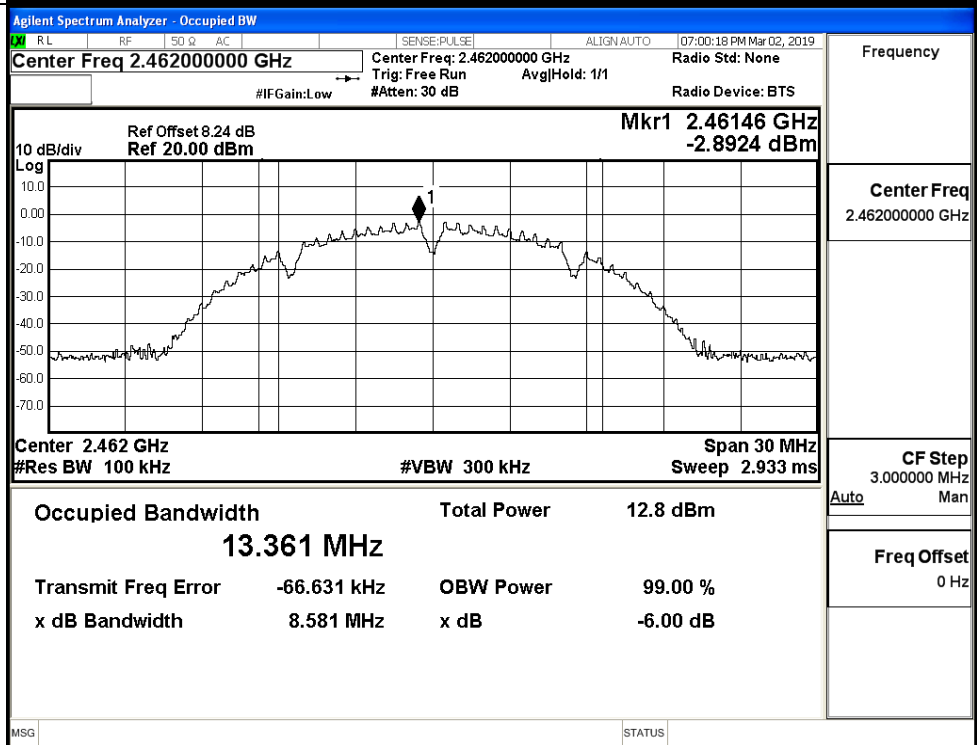
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.044	≥0.5	PASS
	MCH	9.068	≥0.5	PASS
	HCH	8.581	≥0.5	PASS
11G	LCH	16.07	≥0.5	PASS
	MCH	15.70	≥0.5	PASS
	HCH	15.74	≥0.5	PASS
11N20SISO	LCH	15.76	≥0.5	PASS
	MCH	15.74	≥0.5	PASS
	HCH	16.76	≥0.5	PASS
11N40SISO	LCH	35.32	≥0.5	PASS
	MCH	35.24	≥0.5	PASS
	HCH	35.37	≥0.5	PASS



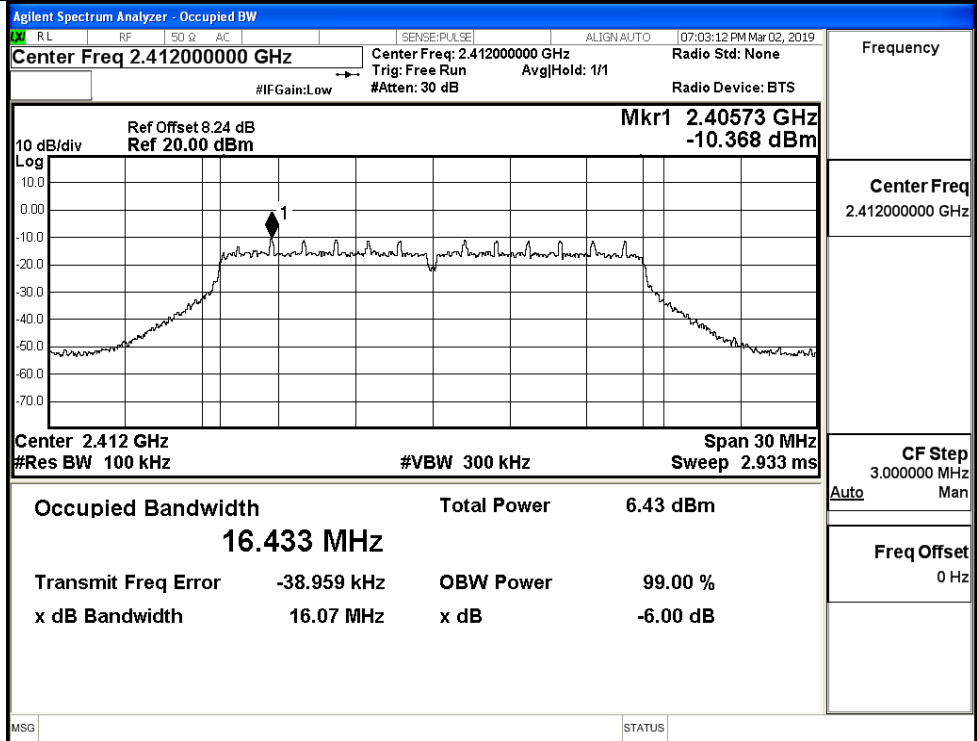
11B/MCH



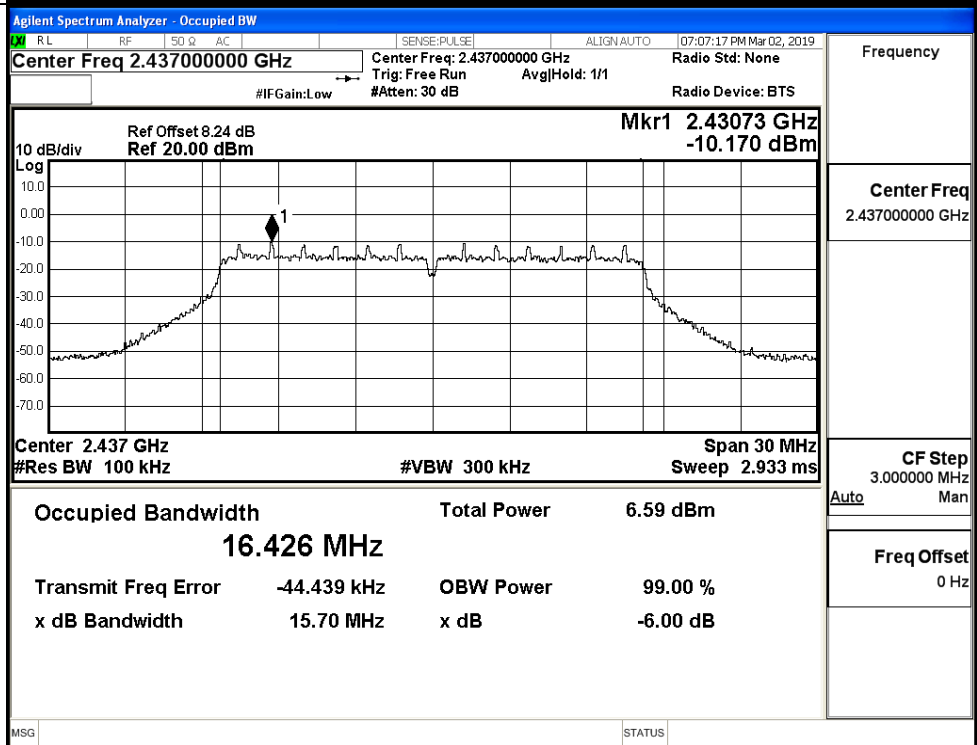
11B/HCH



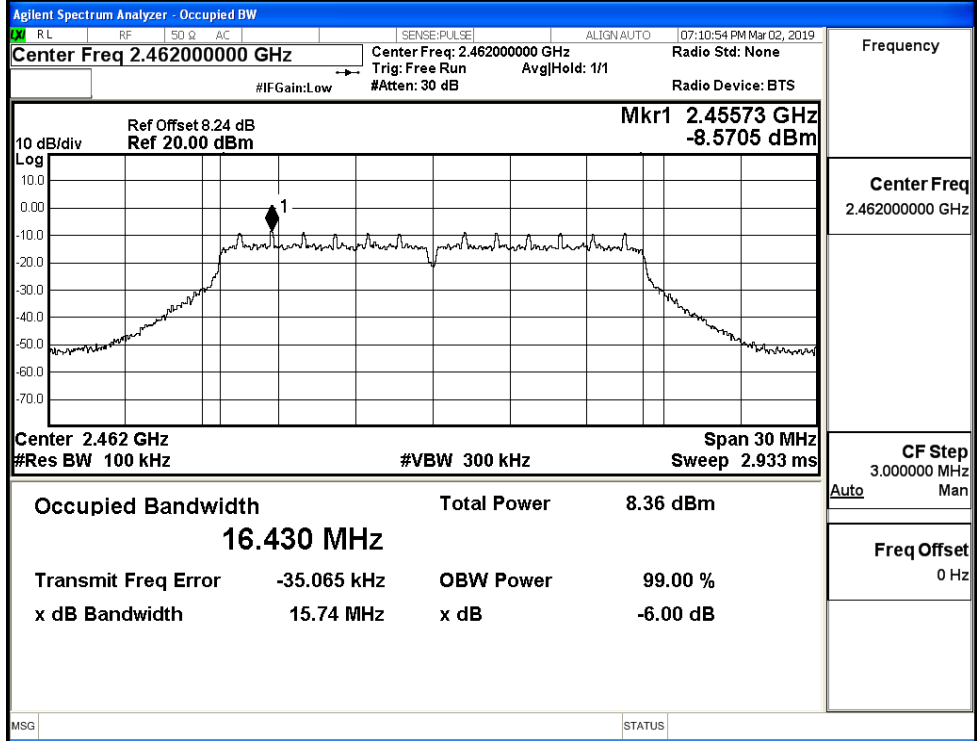
11G/LCH



11G/MCH

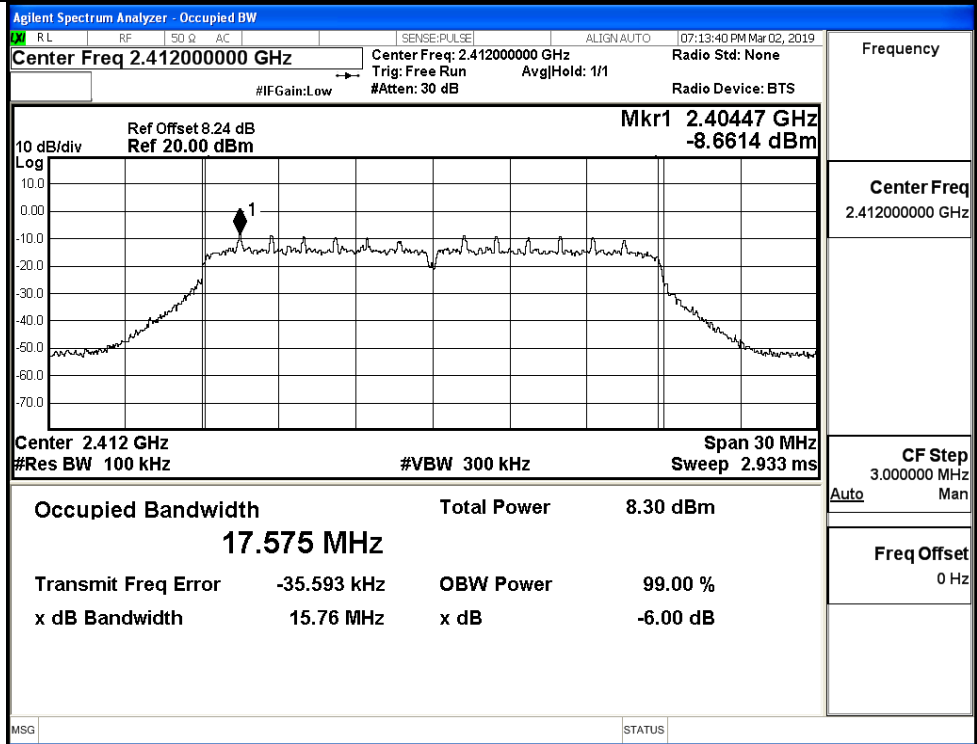


11G/HCH

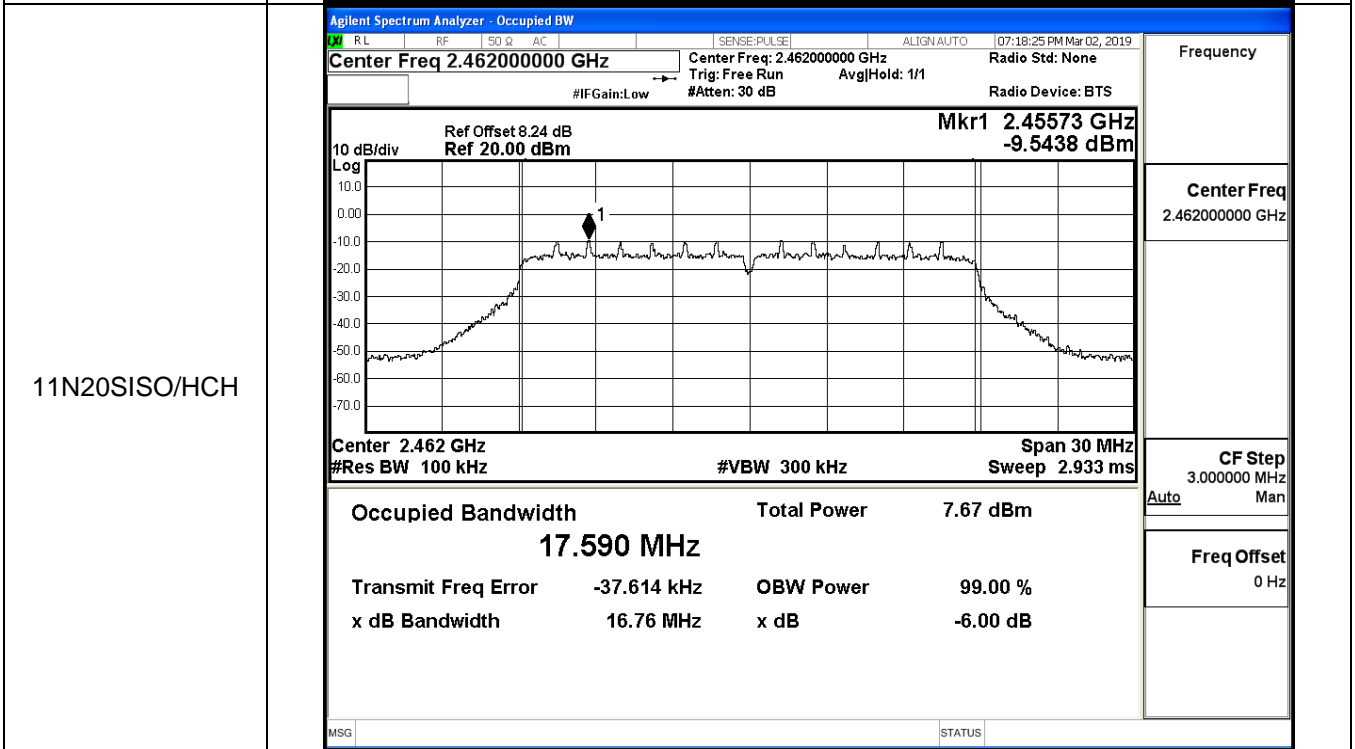
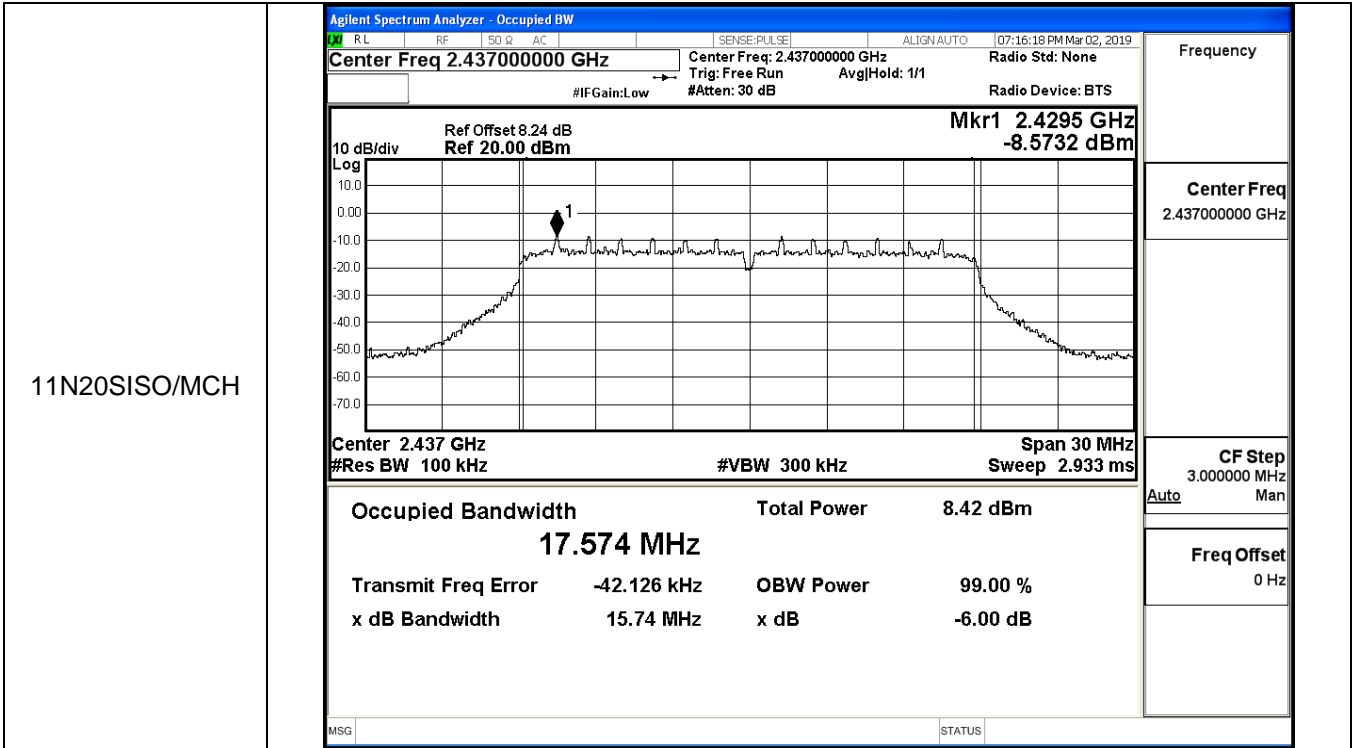


Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

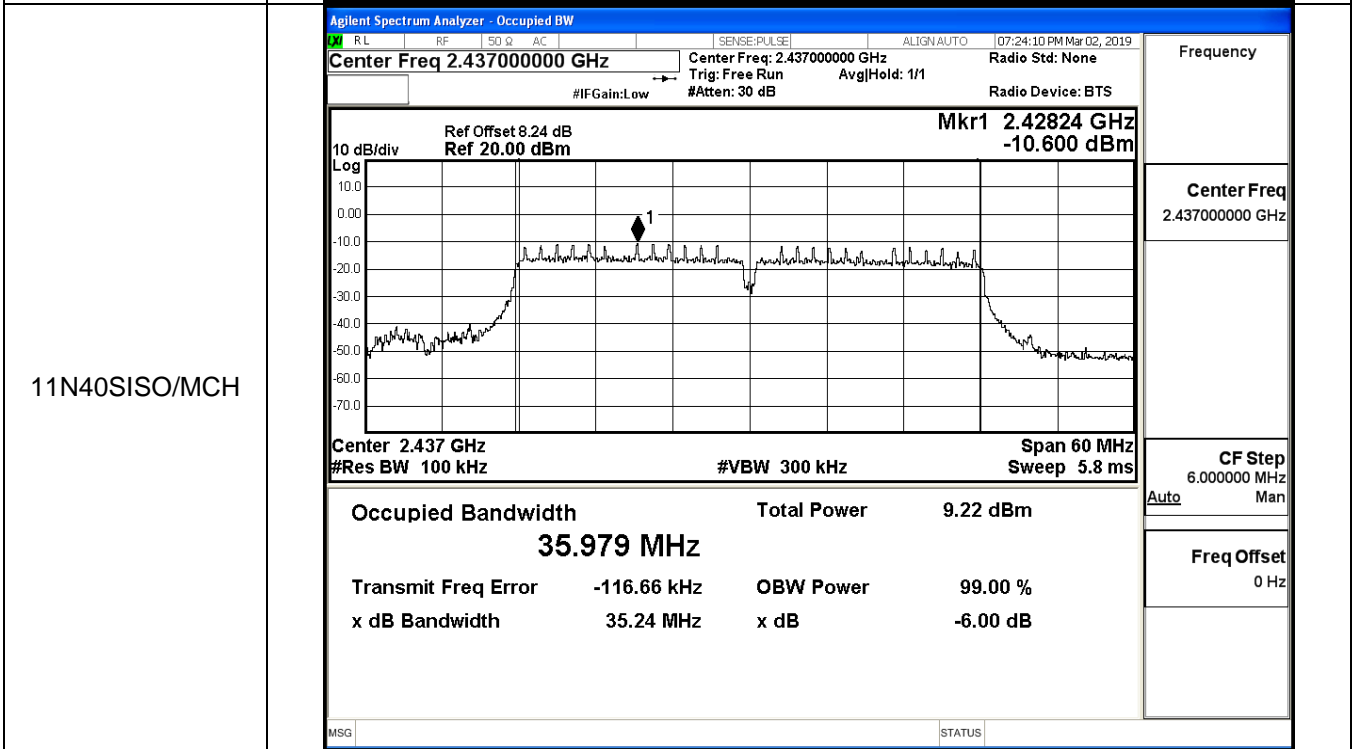
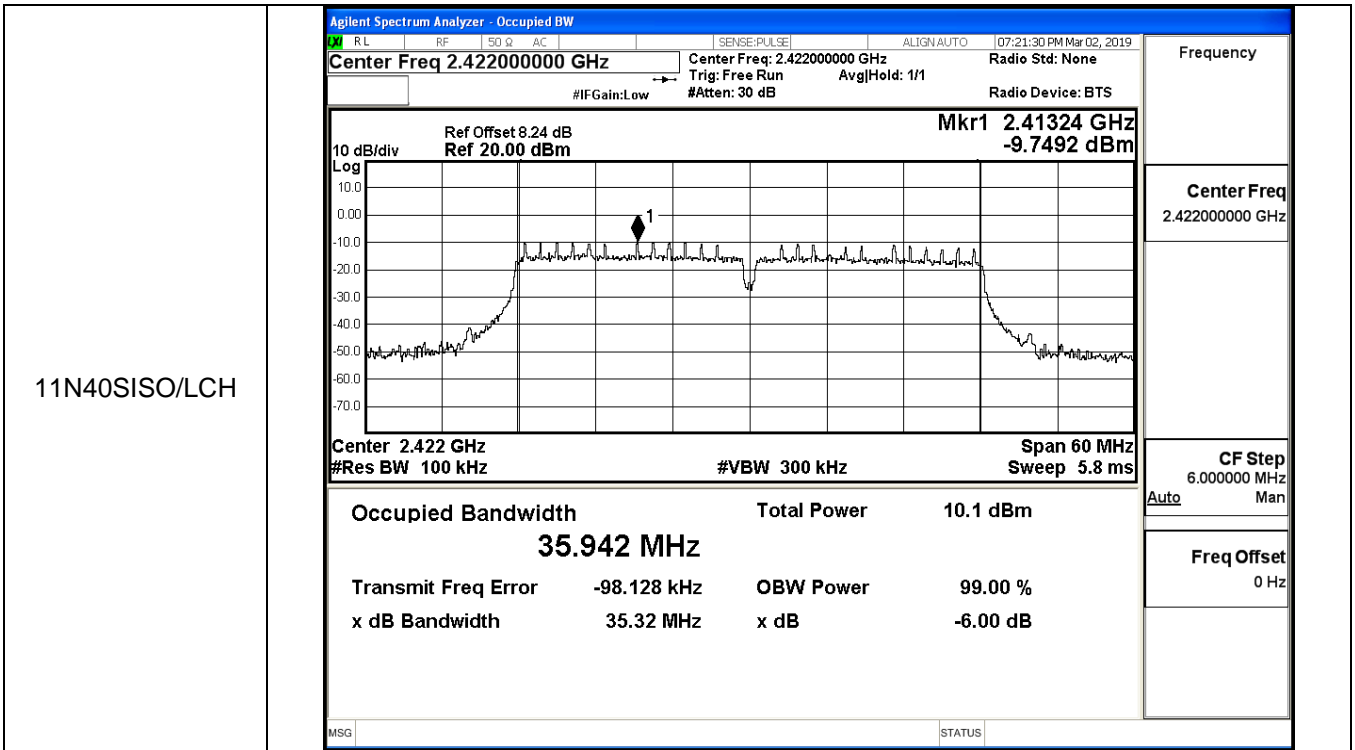
11N20SISO/LCH

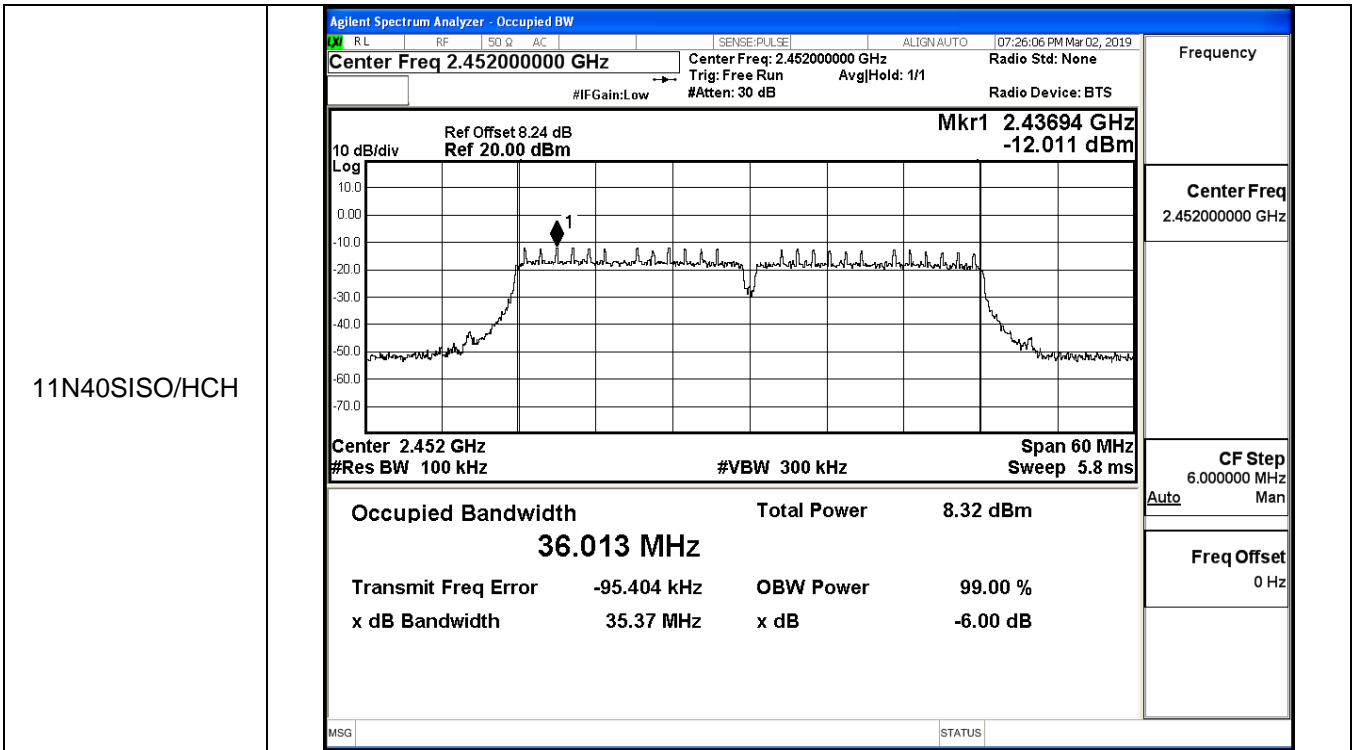


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz





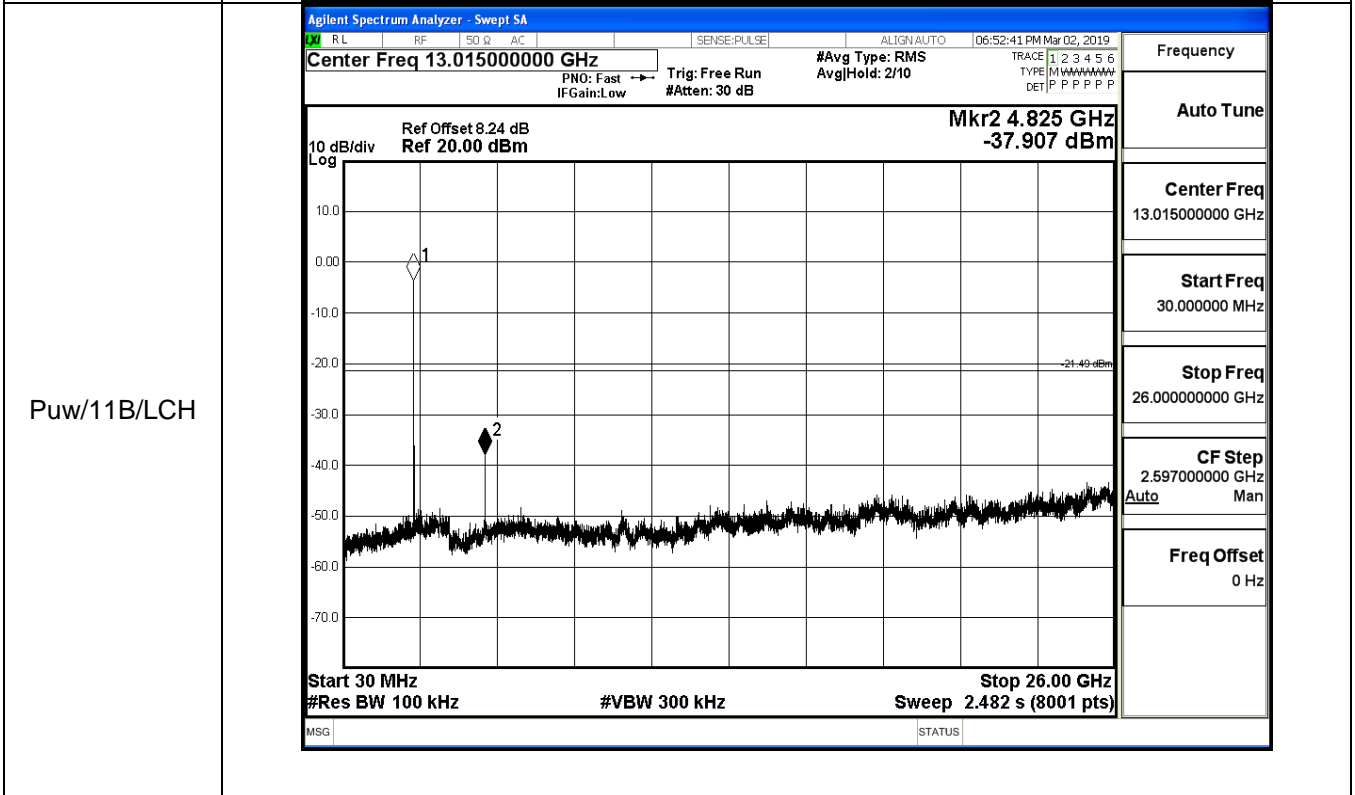
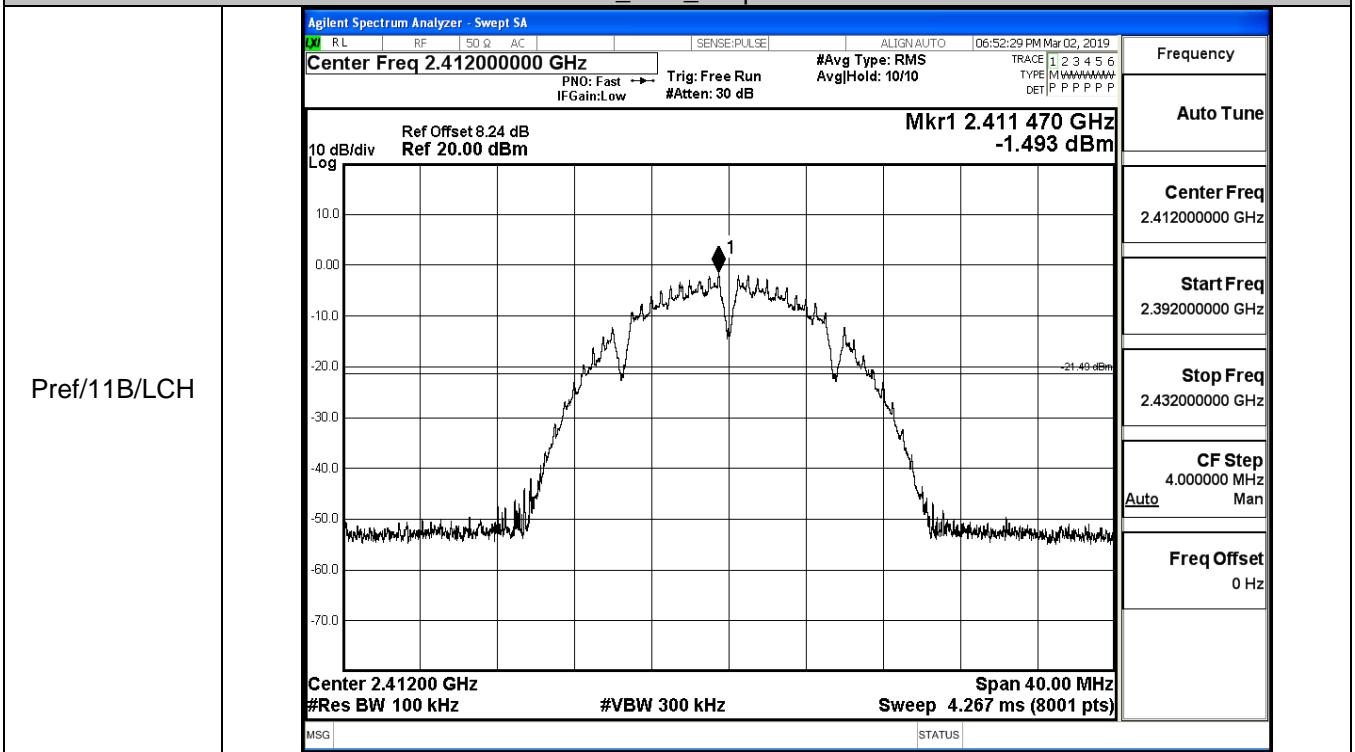




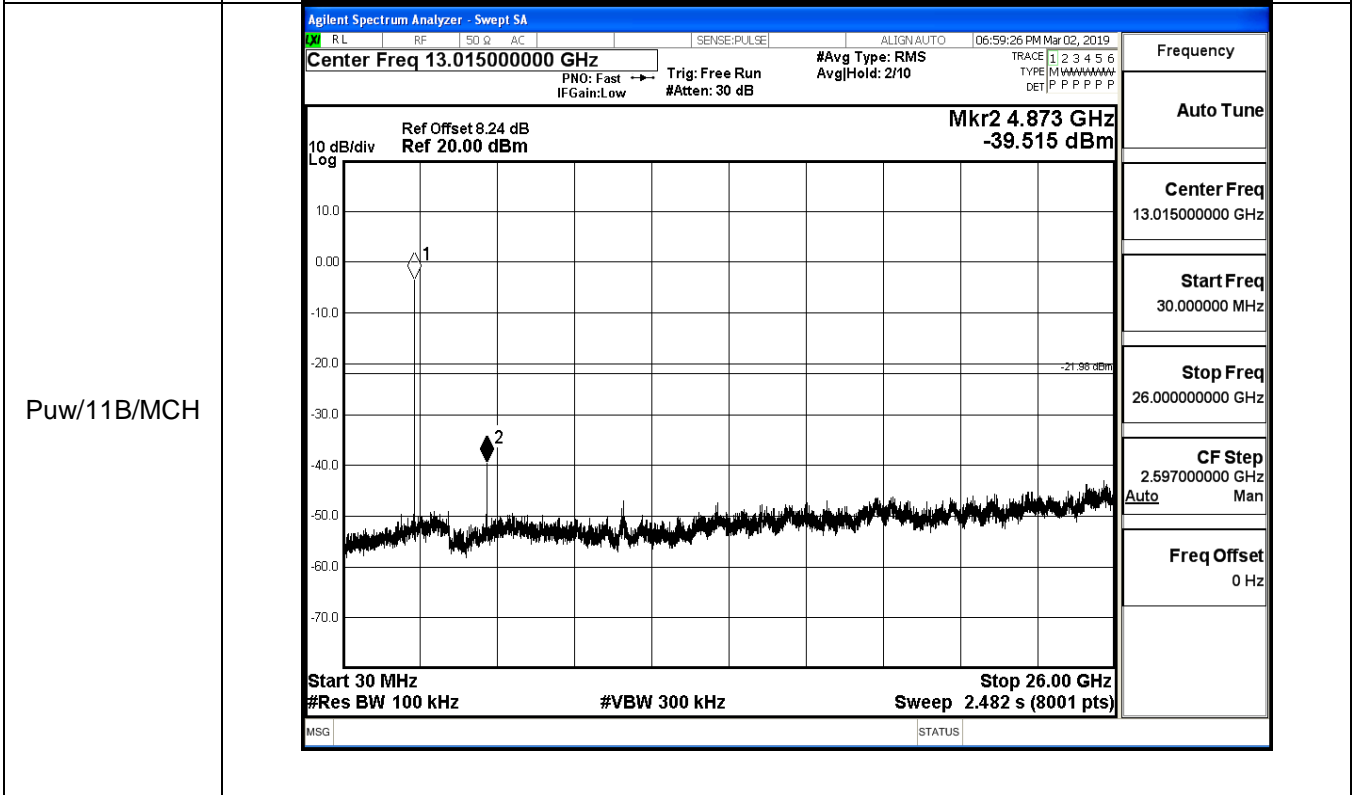
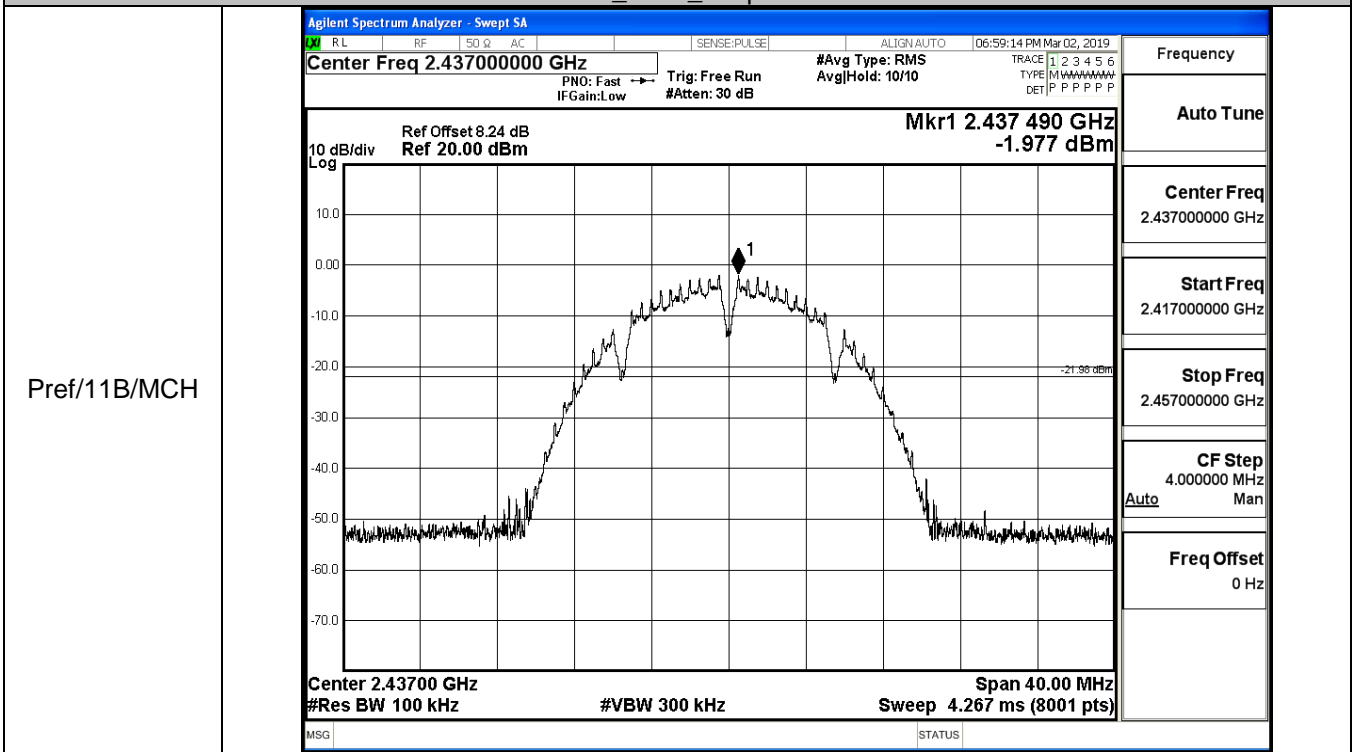
### A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.493	-37.907	-21.493	PASS
	MCH	-1.977	-39.515	-21.977	PASS
	HCH	-3.443	-42.273	-23.443	PASS
11G	LCH	-8.845	-44.152	-28.845	PASS
	MCH	-8.863	-44.028	-28.863	PASS
	HCH	-8.918	-43.502	-28.918	PASS
11N20SISO	LCH	-8.873	-42.454	-28.873	PASS
	MCH	-8.493	-44.015	-28.493	PASS
	HCH	-9.74	-41.979	-29.740	PASS
11N40SISO	LCH	-10.225	-43.071	-30.225	PASS
	MCH	-10.913	-42.071	-30.913	PASS
	HCH	-11.663	-44.284	-31.663	PASS

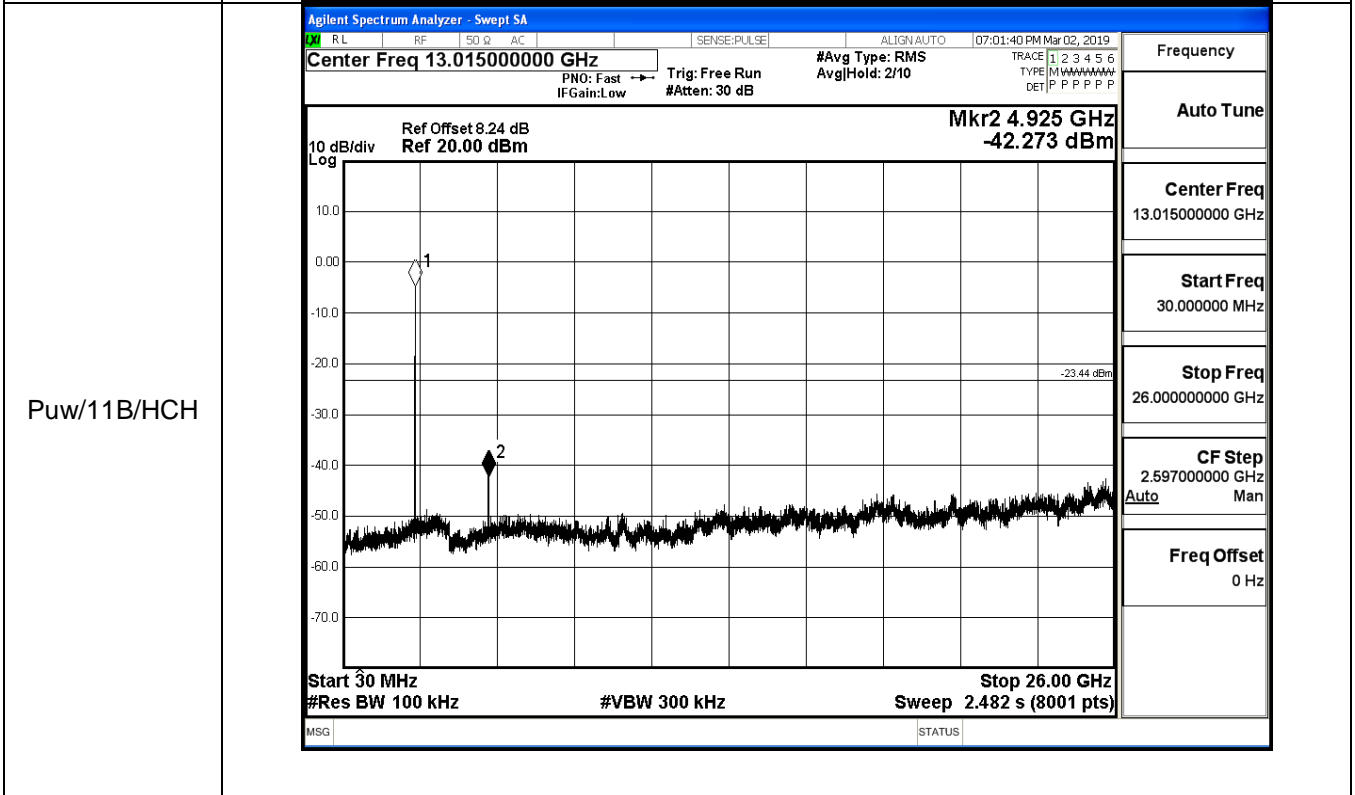
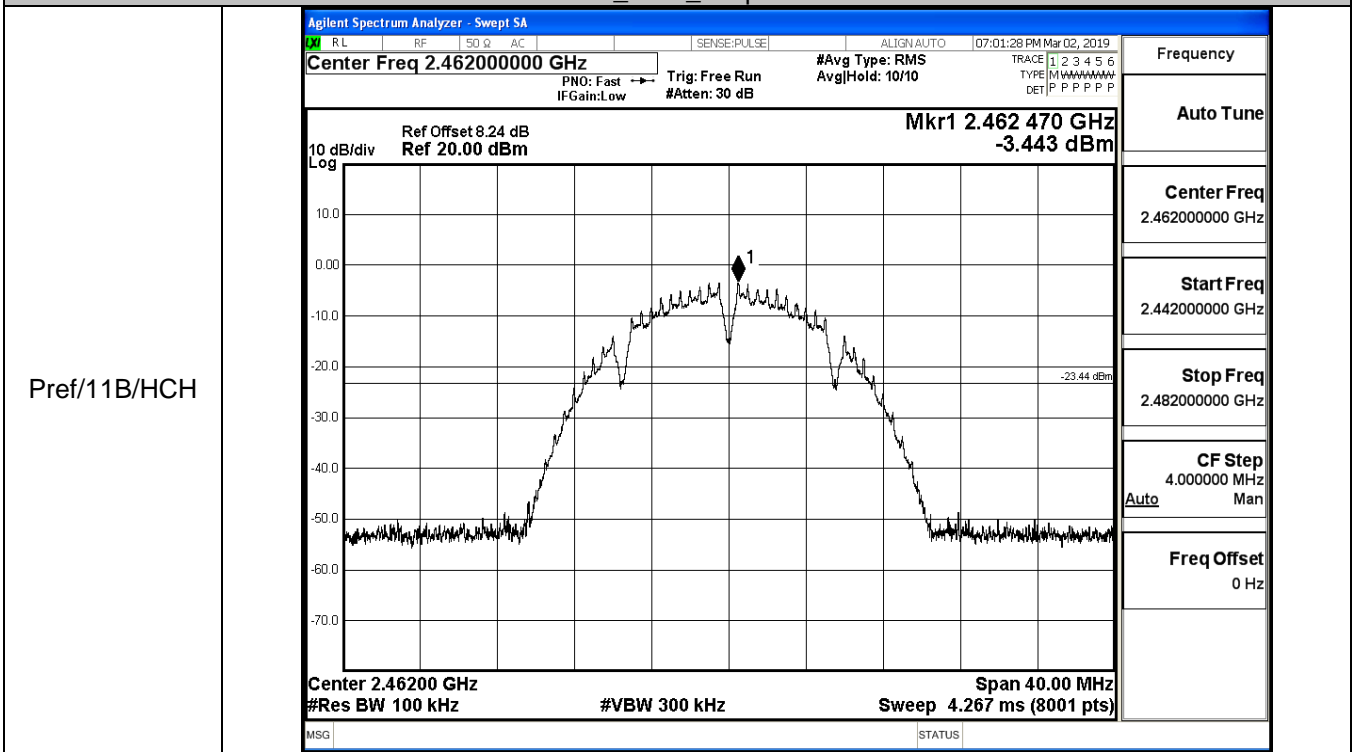
11B\_LCH\_Graphs



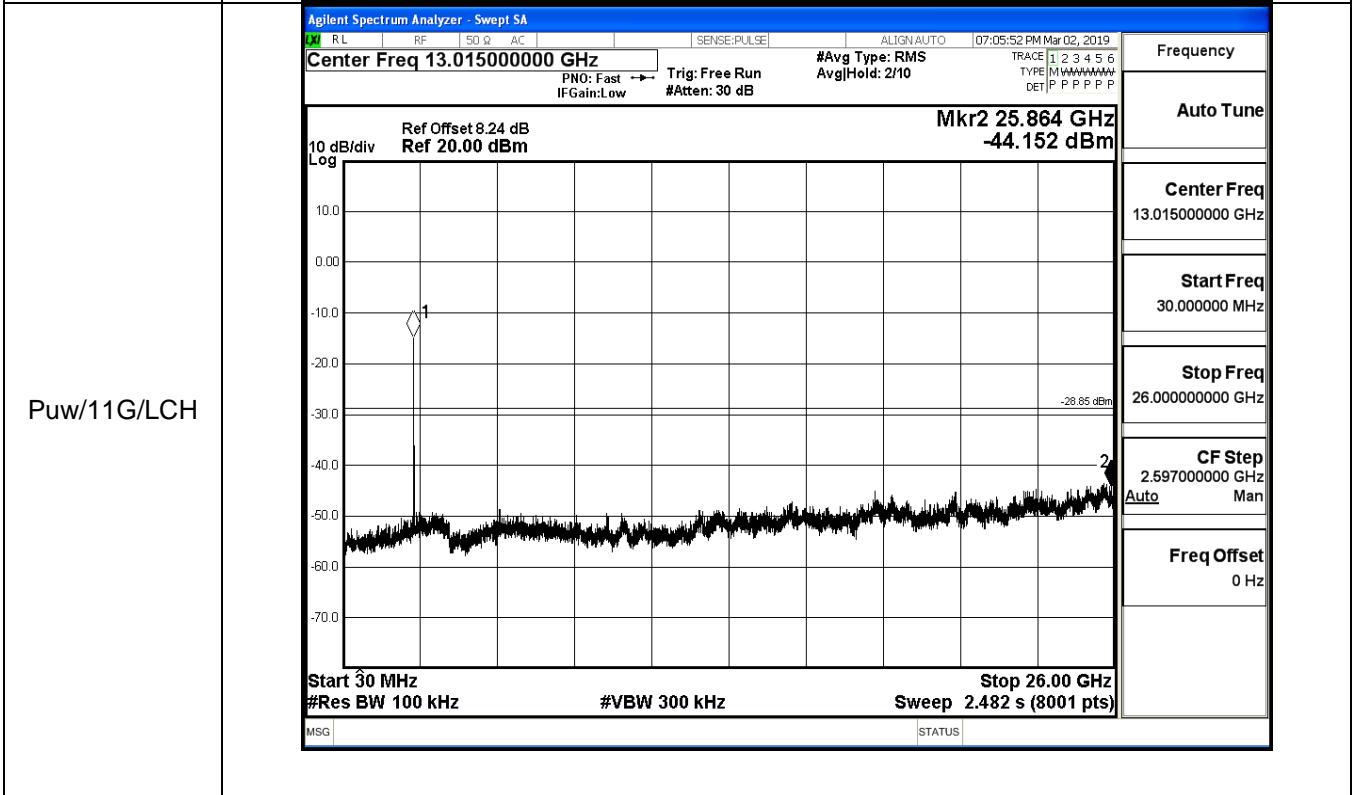
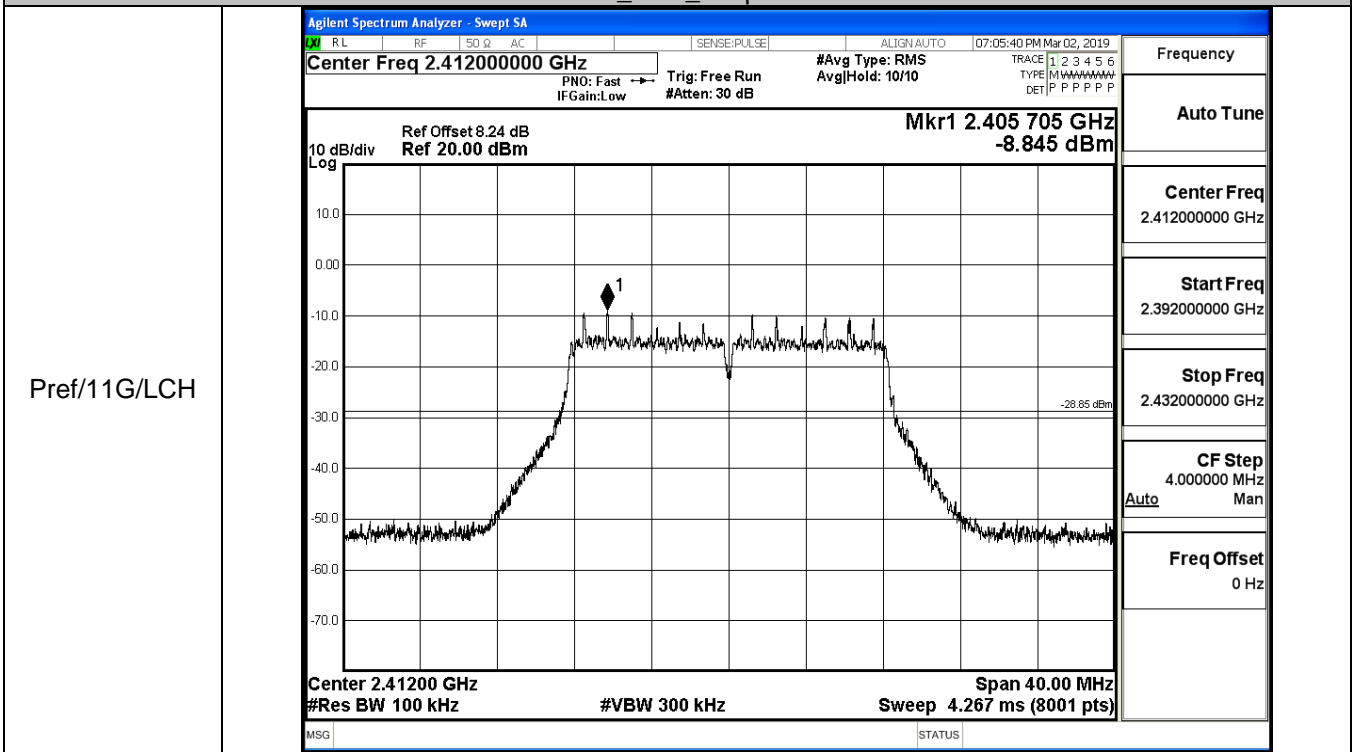
11B\_MCH\_Graphs



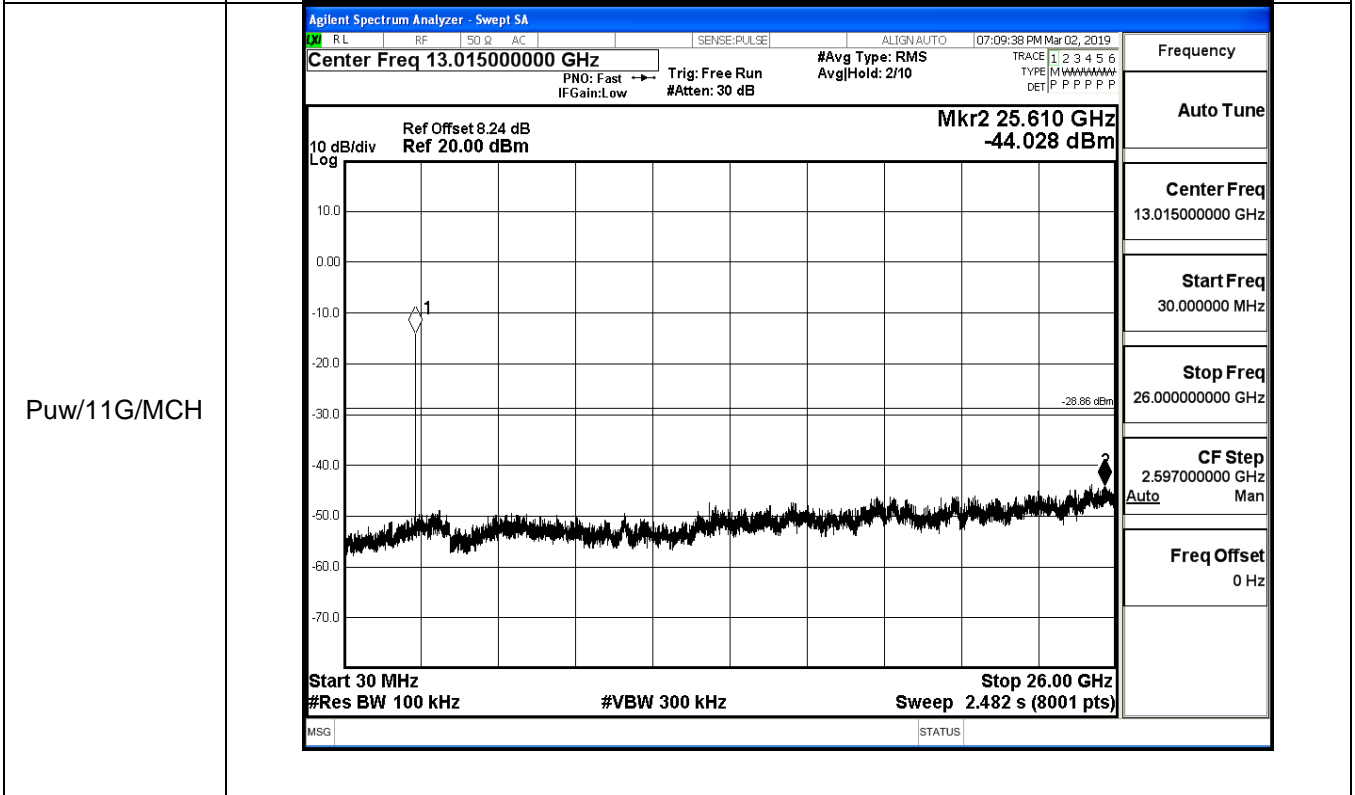
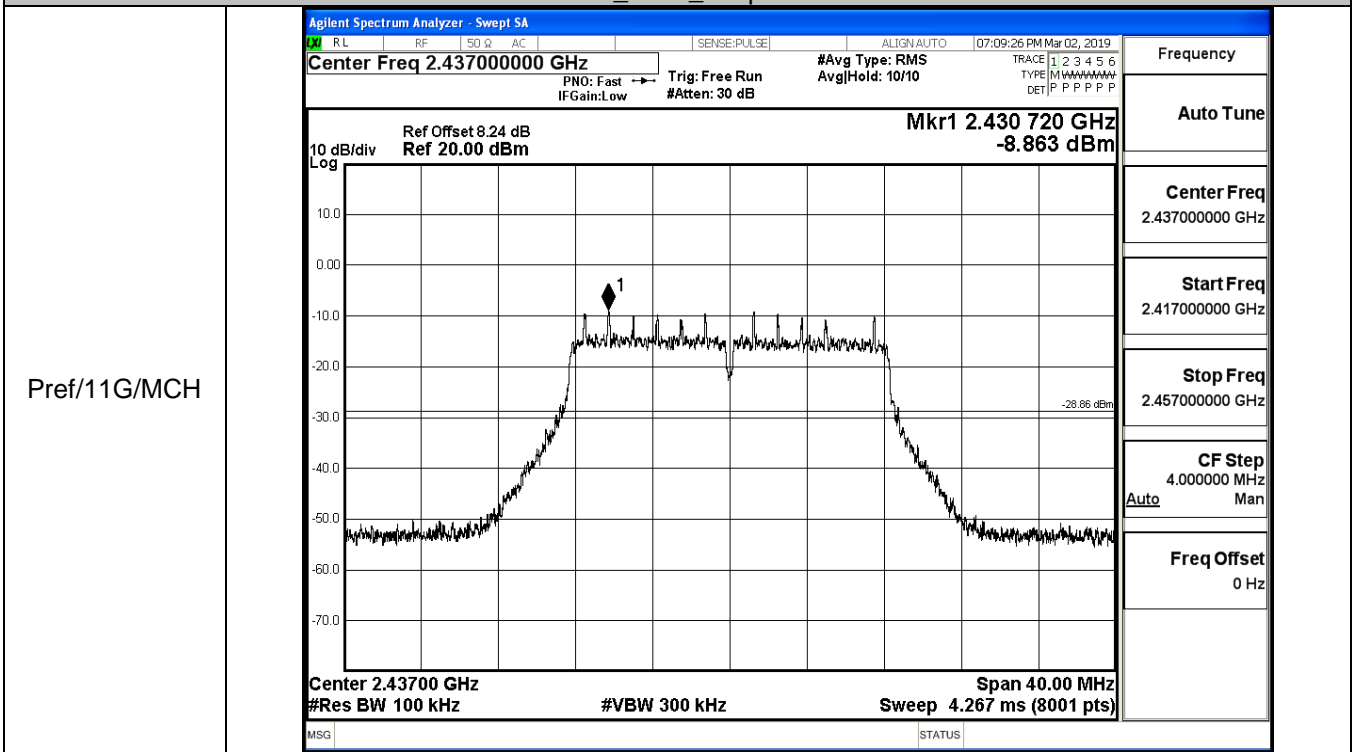
11B\_HCH\_Graphs



11G\_LCH\_Graphs

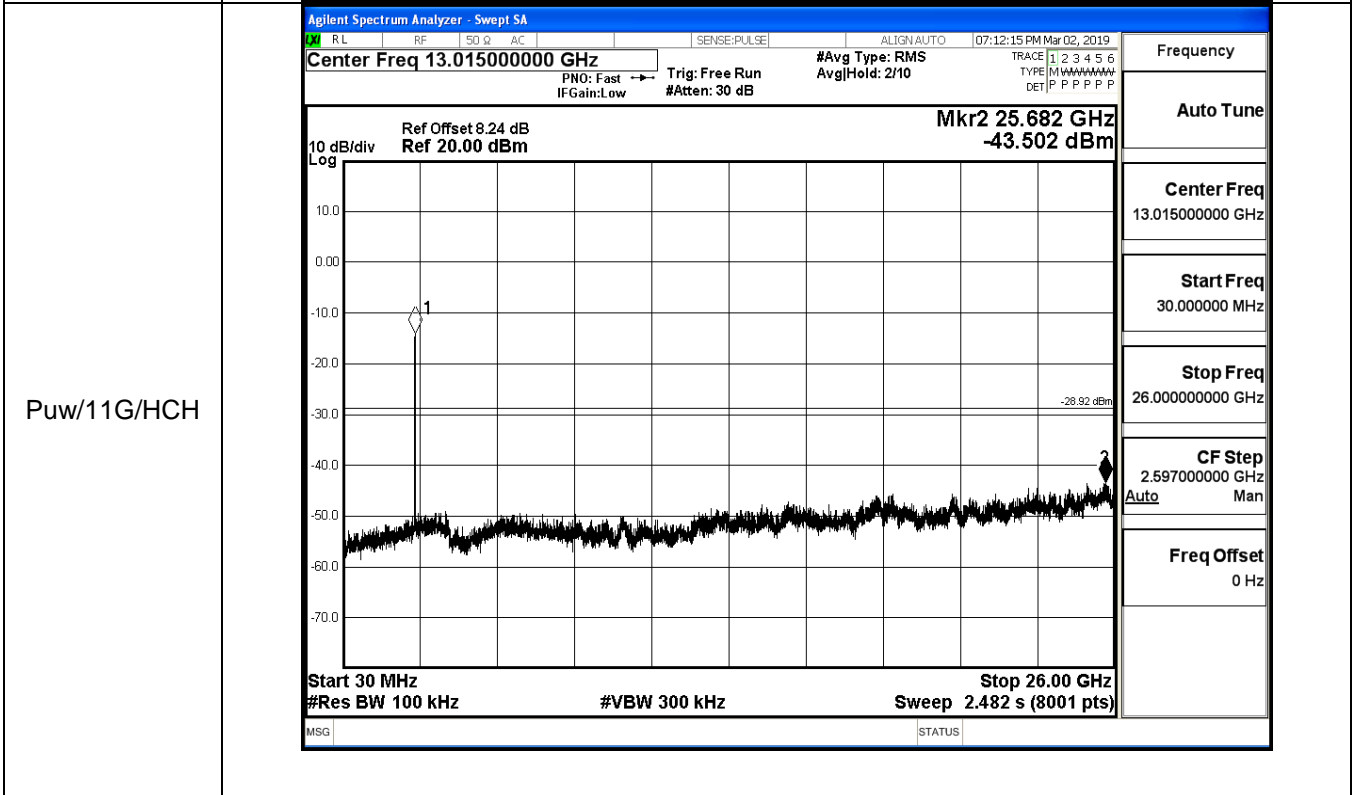
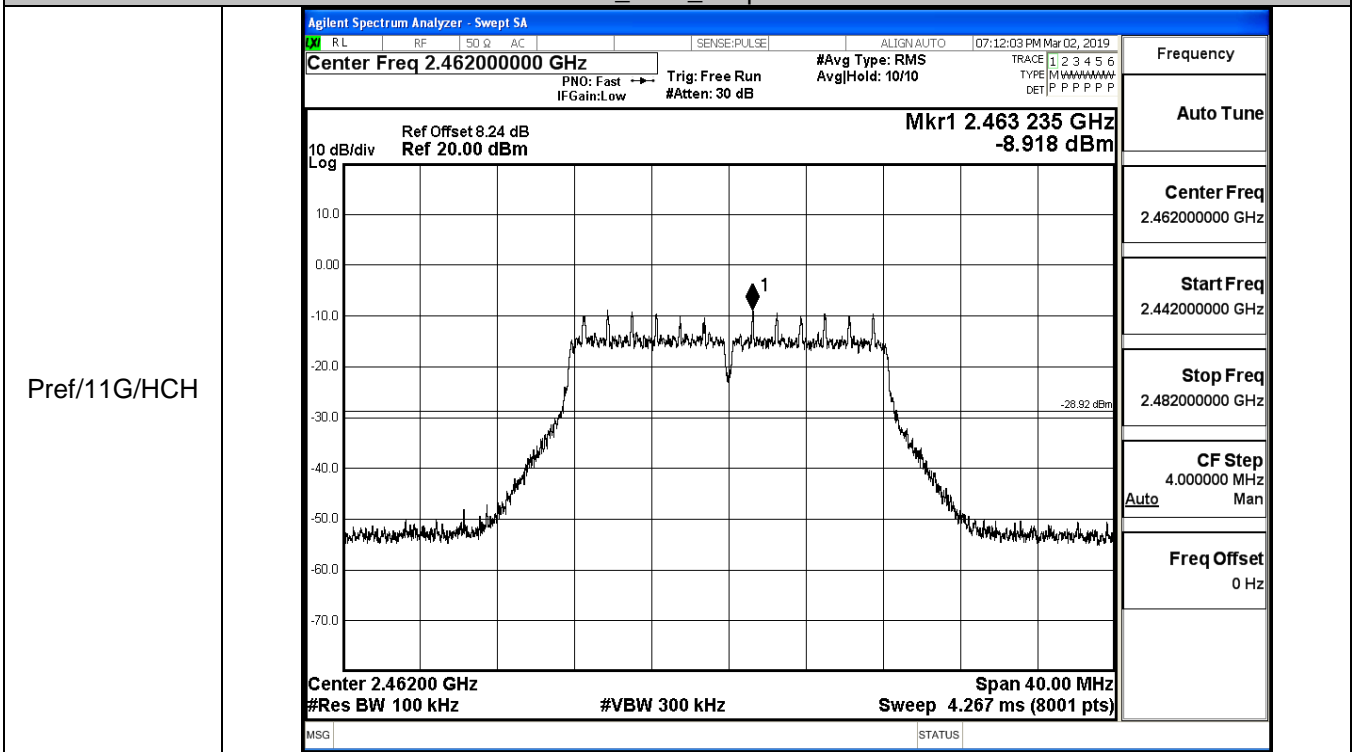


11G\_MCH\_Graphs

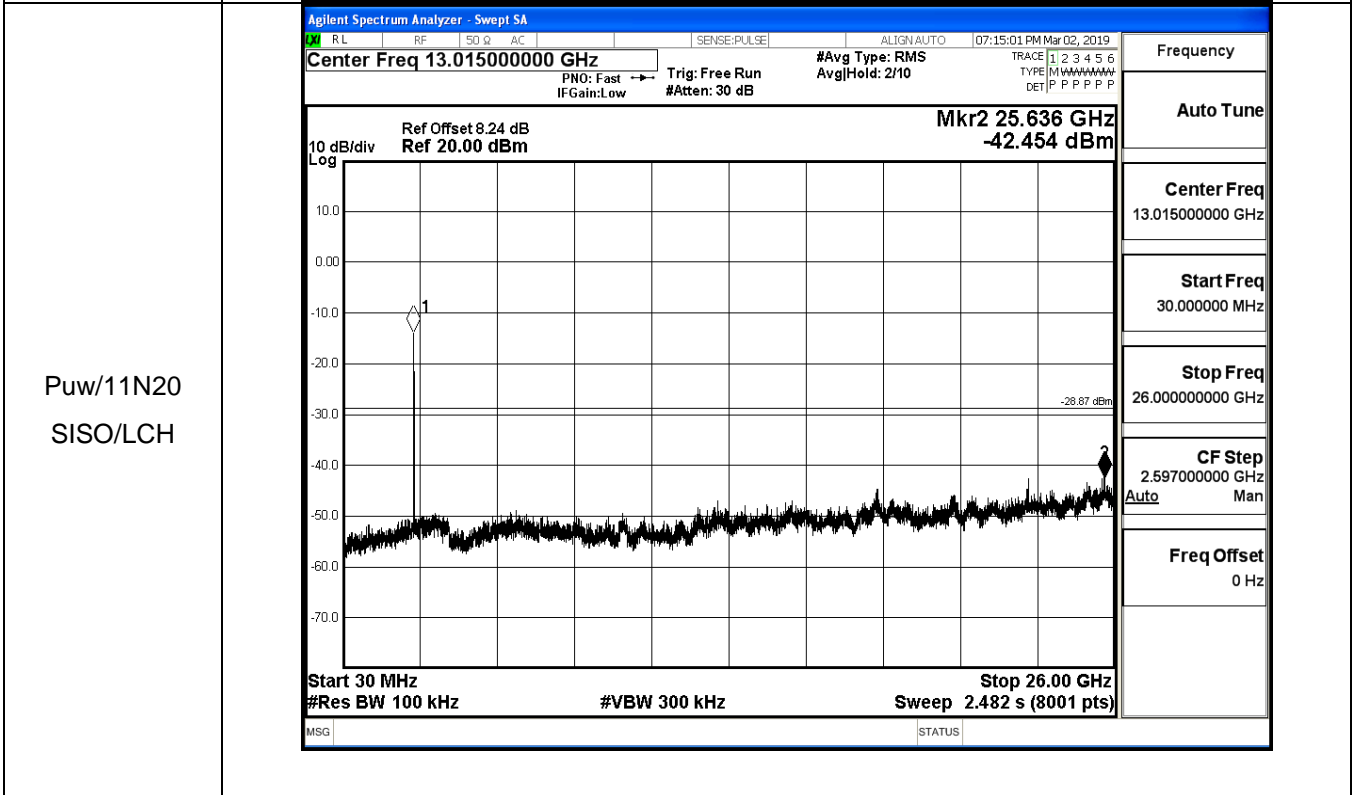
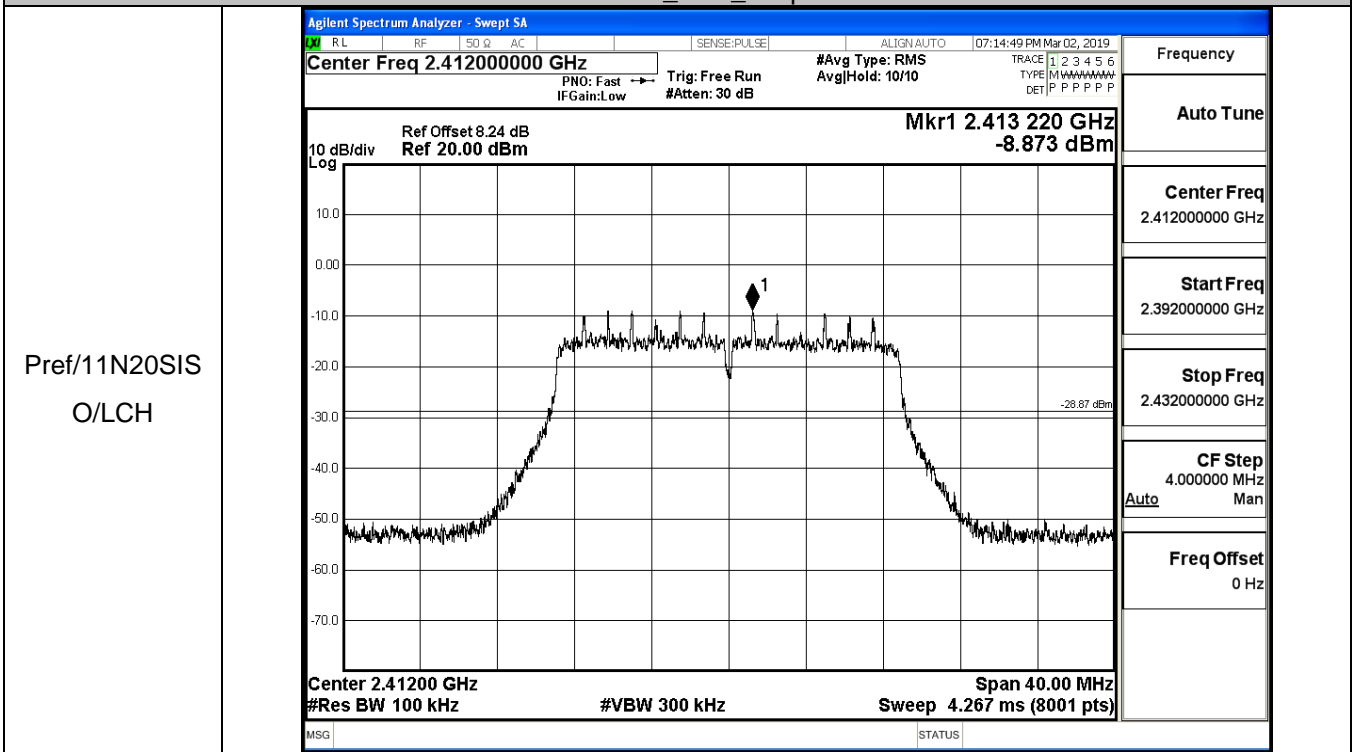




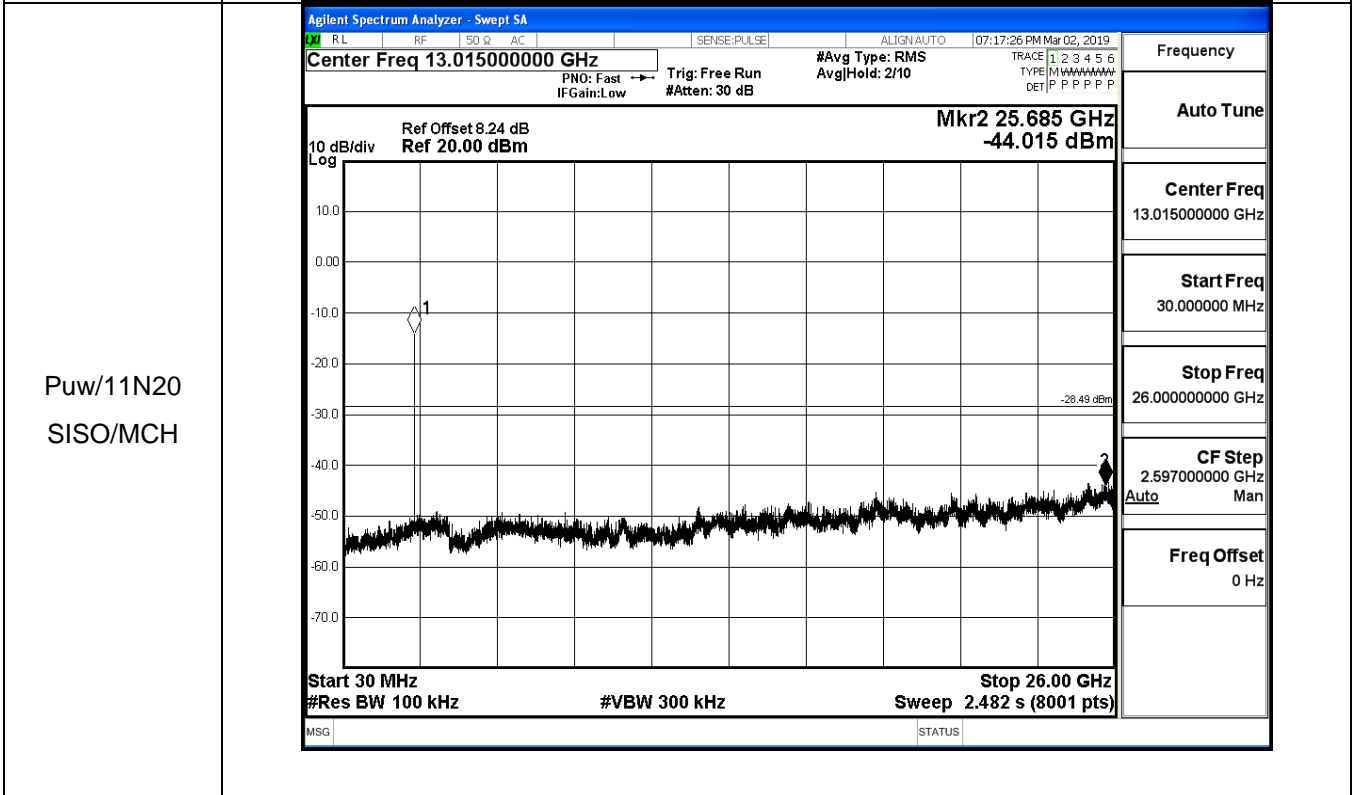
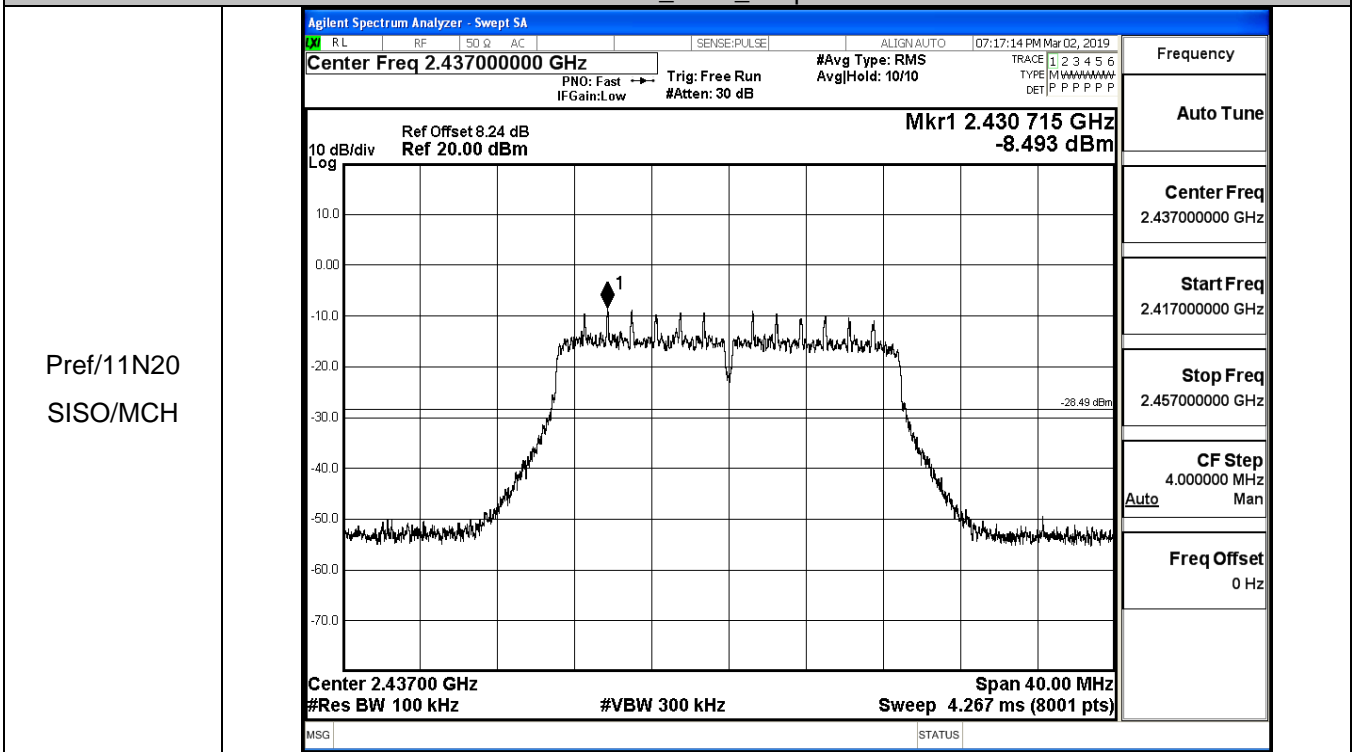
11G\_HCH\_Graphs



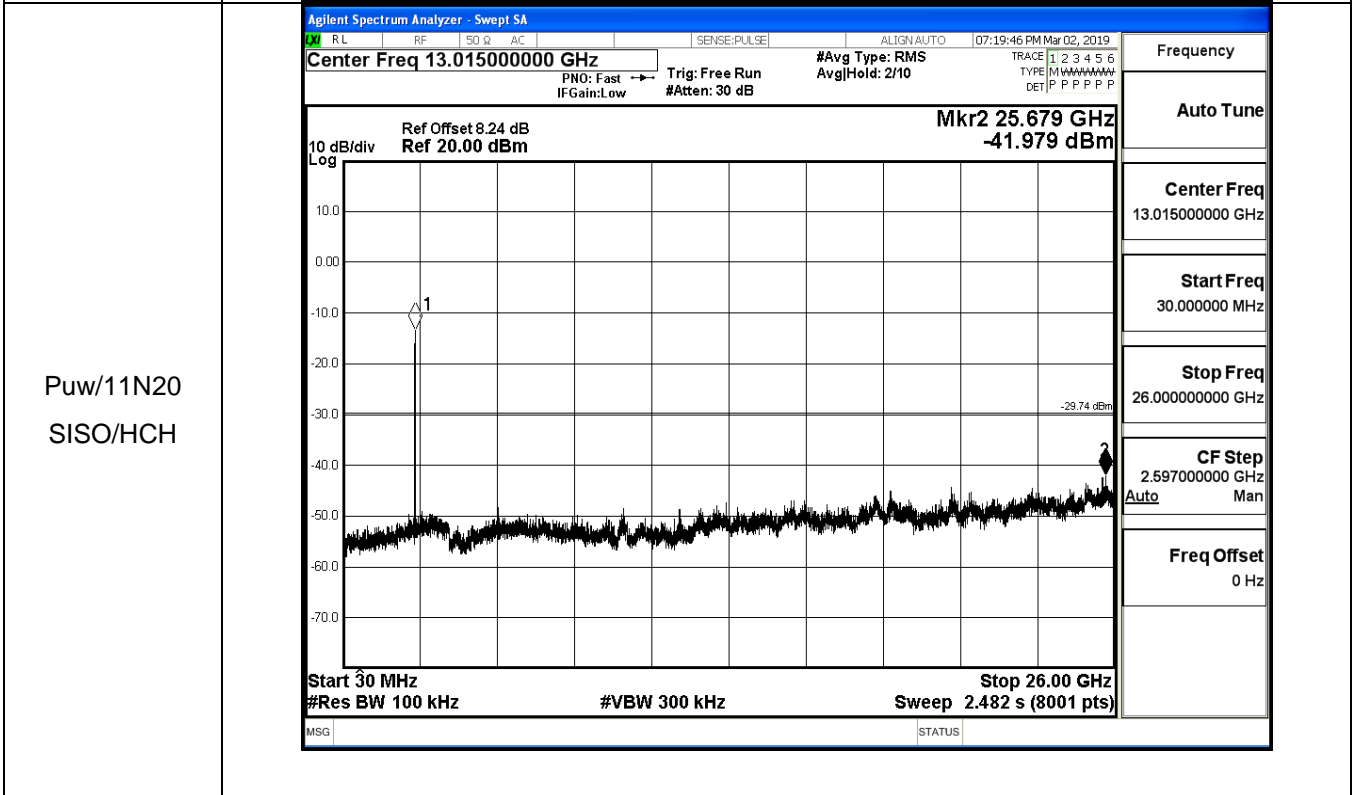
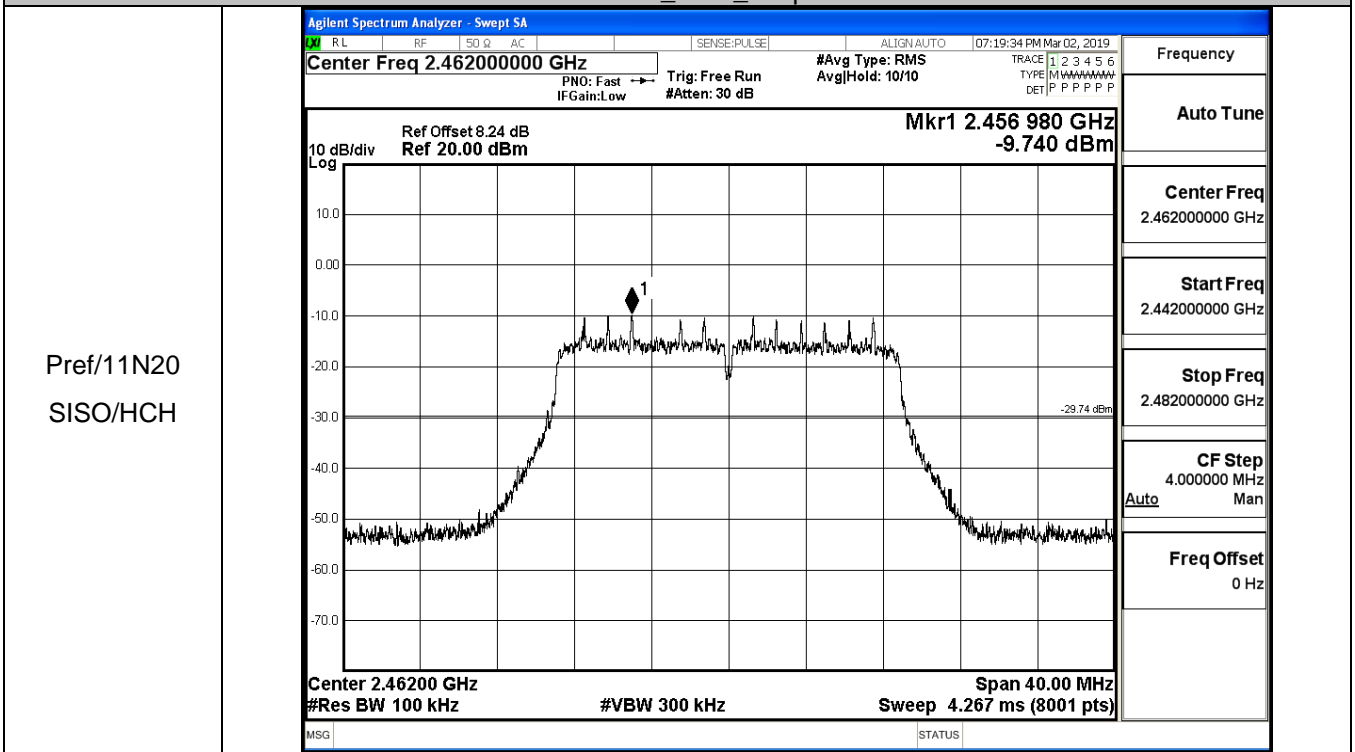
11N20SISO\_LCH\_Graphs



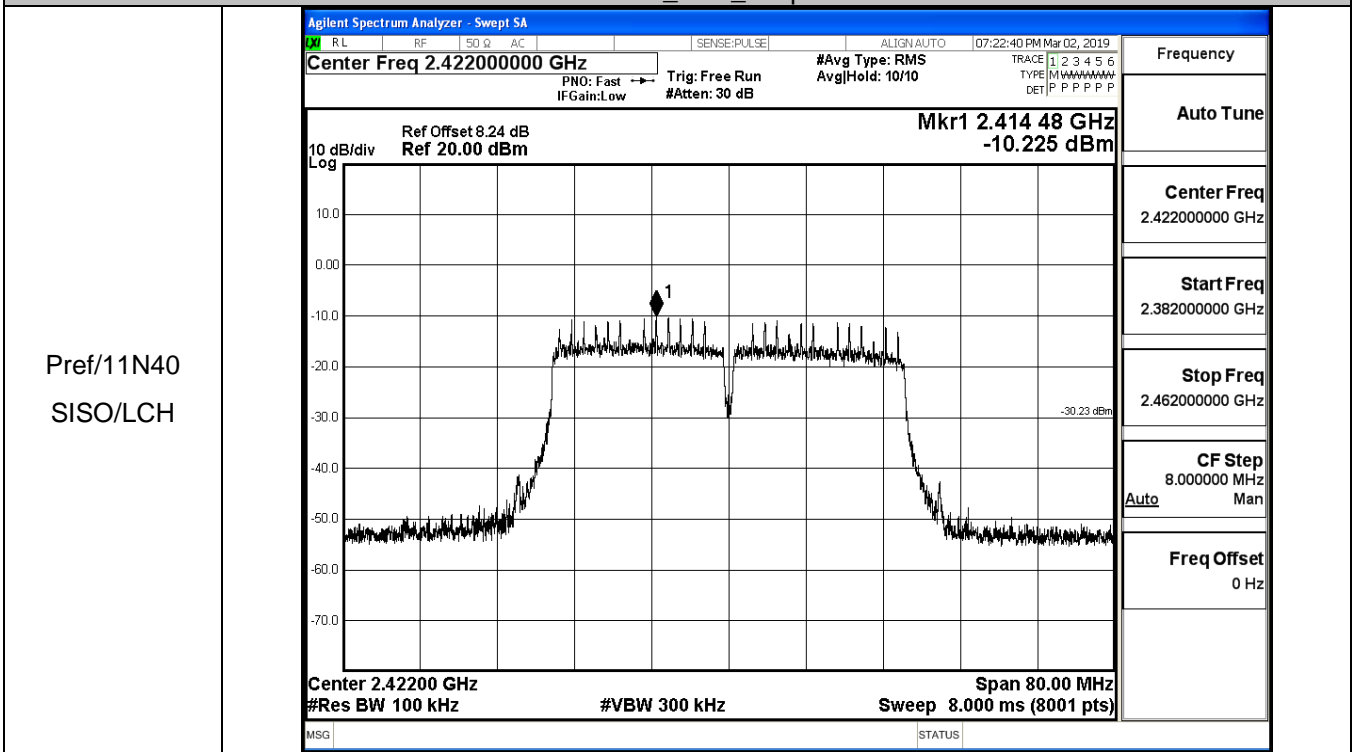
11N20SISO\_MCH\_Graphs



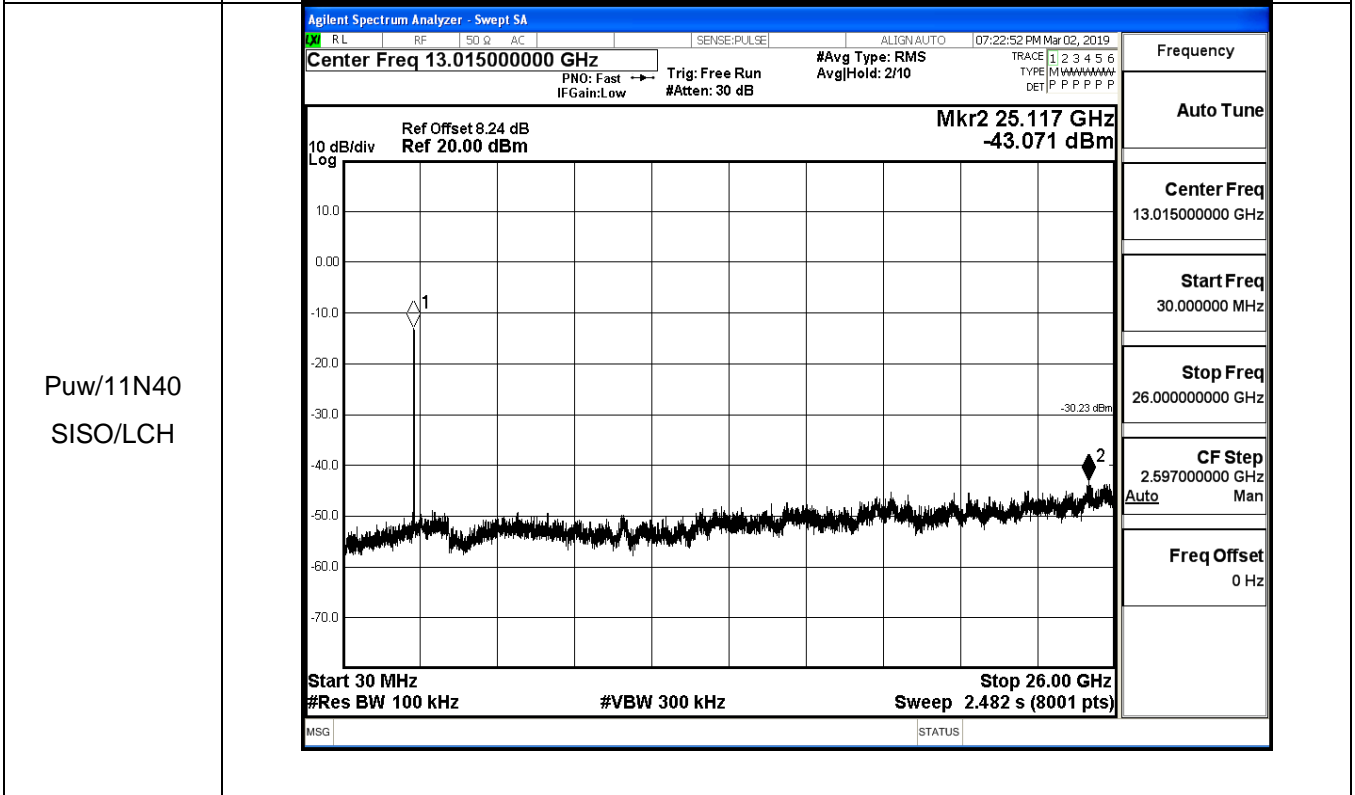
11N20SISO\_HCH\_Graphs



11N40SISO\_LCH\_Graphs

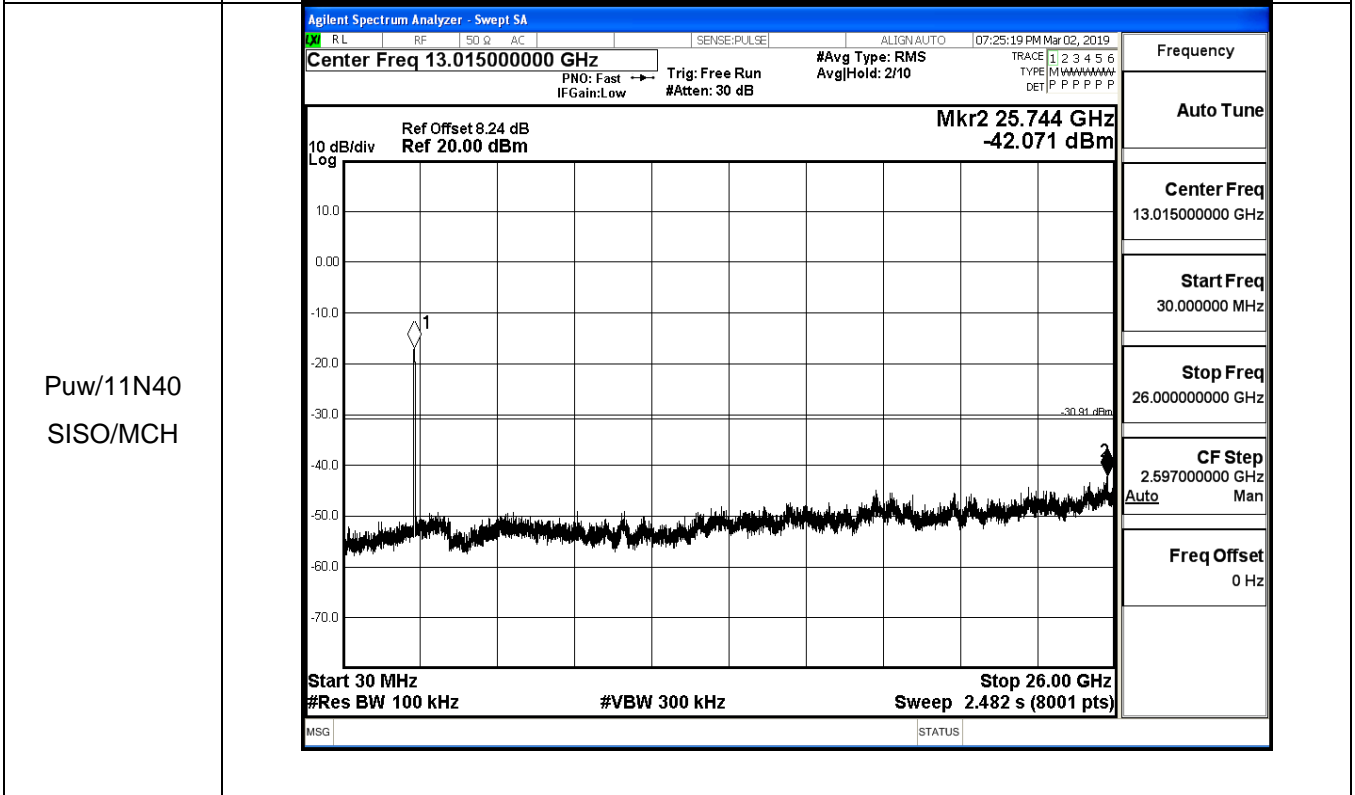
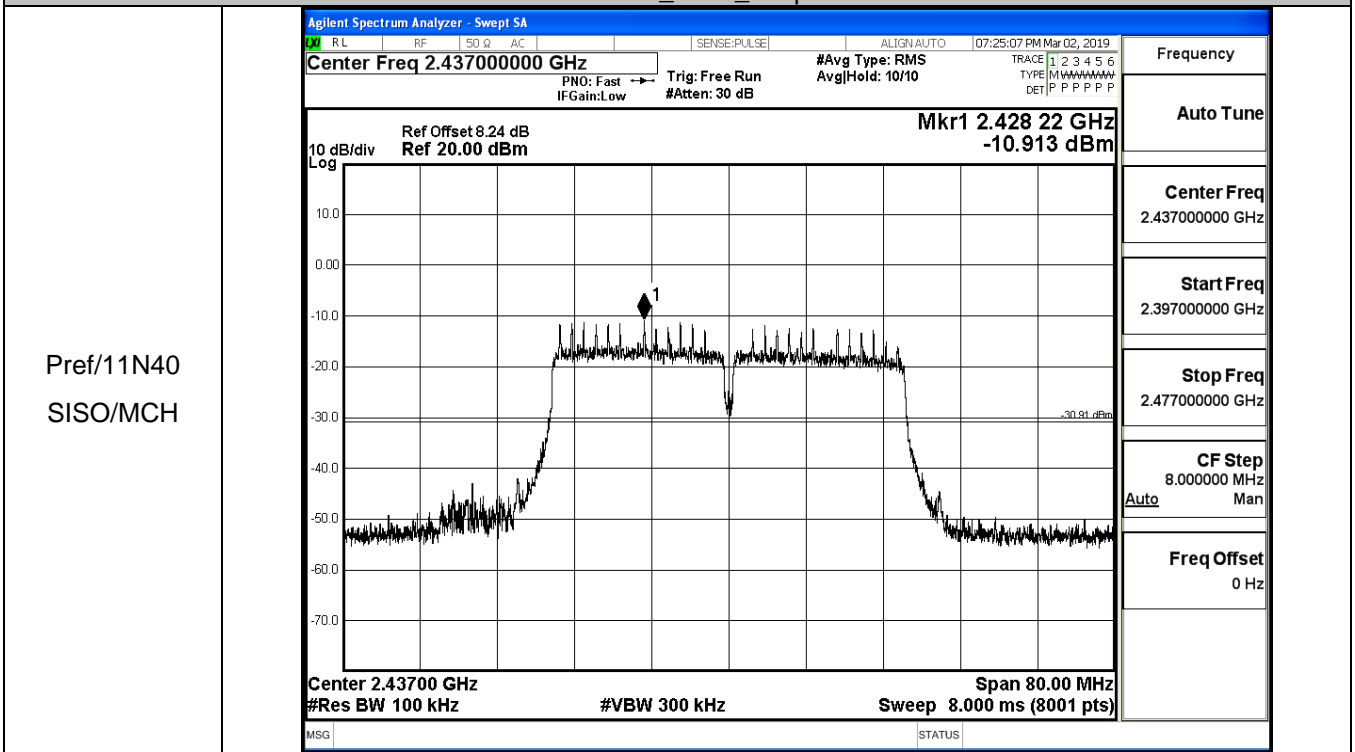


Pref/11N40  
SISO/LCH



Puw/11N40  
SISO/LCH

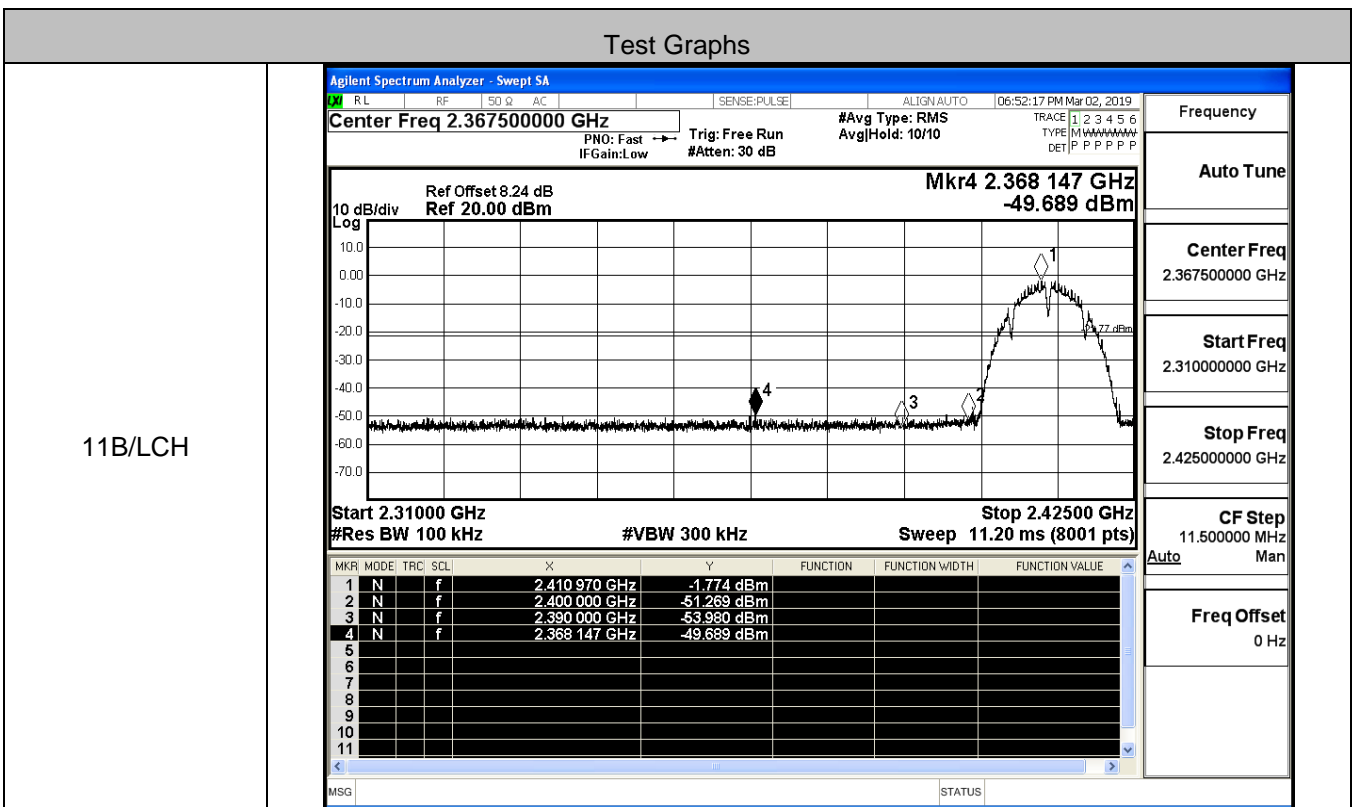
11N40SISO\_MCH\_Graphs





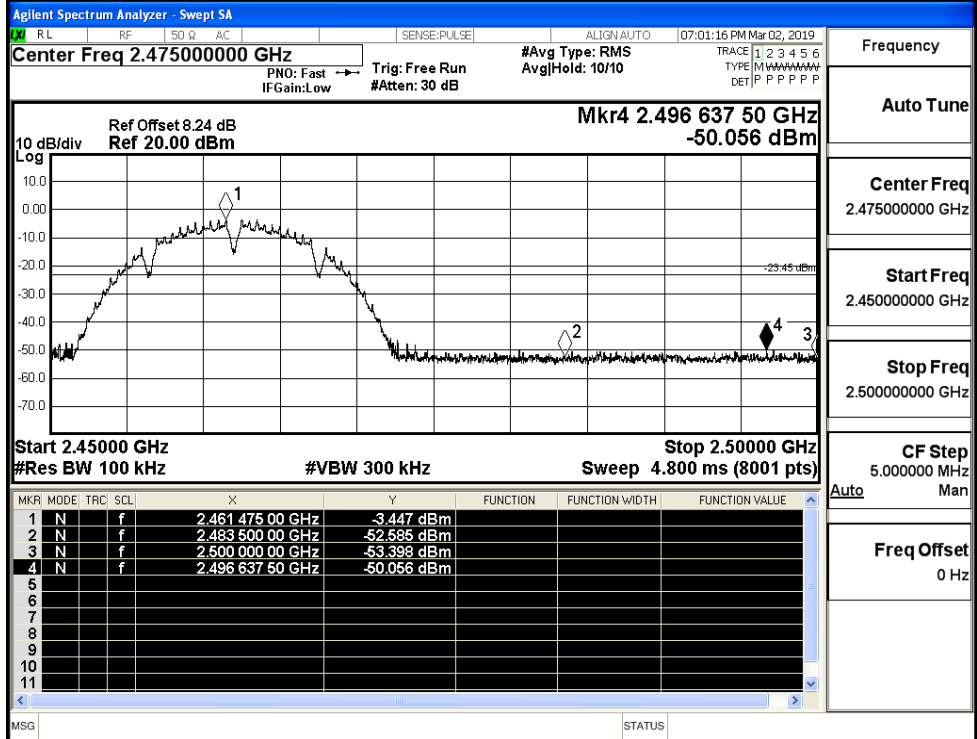
### A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-1.774	-49.689	-21.77	PASS
	HCH	-3.447	-50.056	-23.45	PASS
11G	LCH	-9.914	-50.654	-29.91	PASS
	HCH	-8.892	-49.045	-28.89	PASS
11N20SISO	LCH	-8.893	-49.802	-28.89	PASS
	HCH	-9.431	-50.481	-29.43	PASS
11N40SISO	LCH	-10.028	-48.745	-30.03	PASS
	HCH	-12.374	-49.957	-32.37	PASS





11B/HCH



Frequency

Auto Tune

Center Freq  
2.47500000 GHz

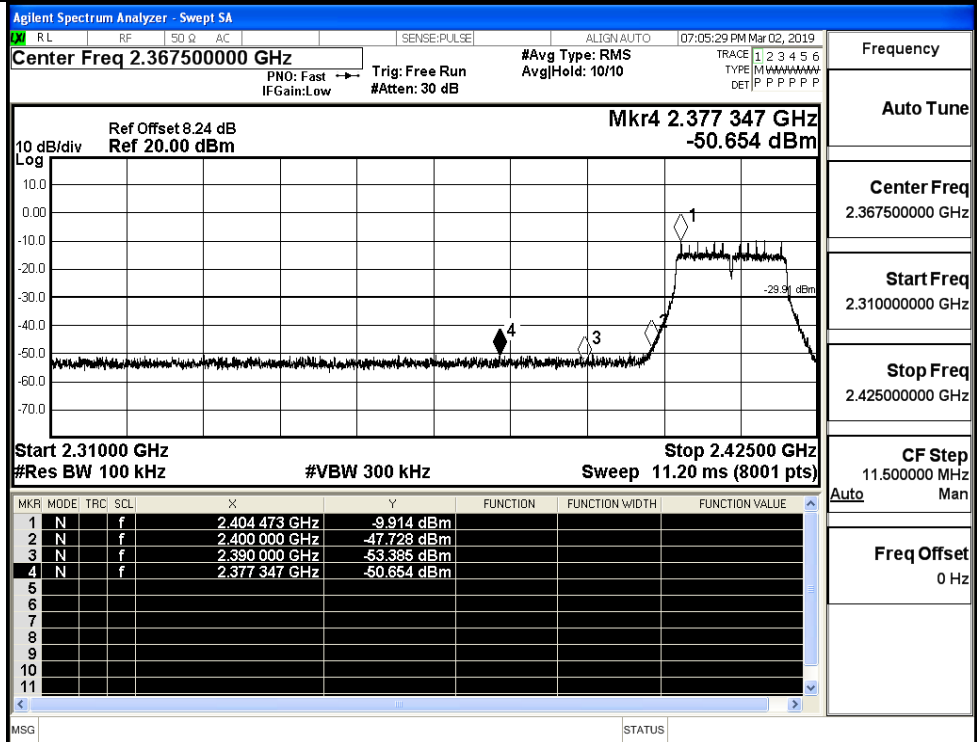
Start Freq  
2.45000000 GHz

Stop Freq  
2.50000000 GHz

CF Step  
5.000000 MHz

Freq Offset  
0 Hz

11G/LCH



Frequency

Auto Tune

Center Freq  
2.36750000 GHz

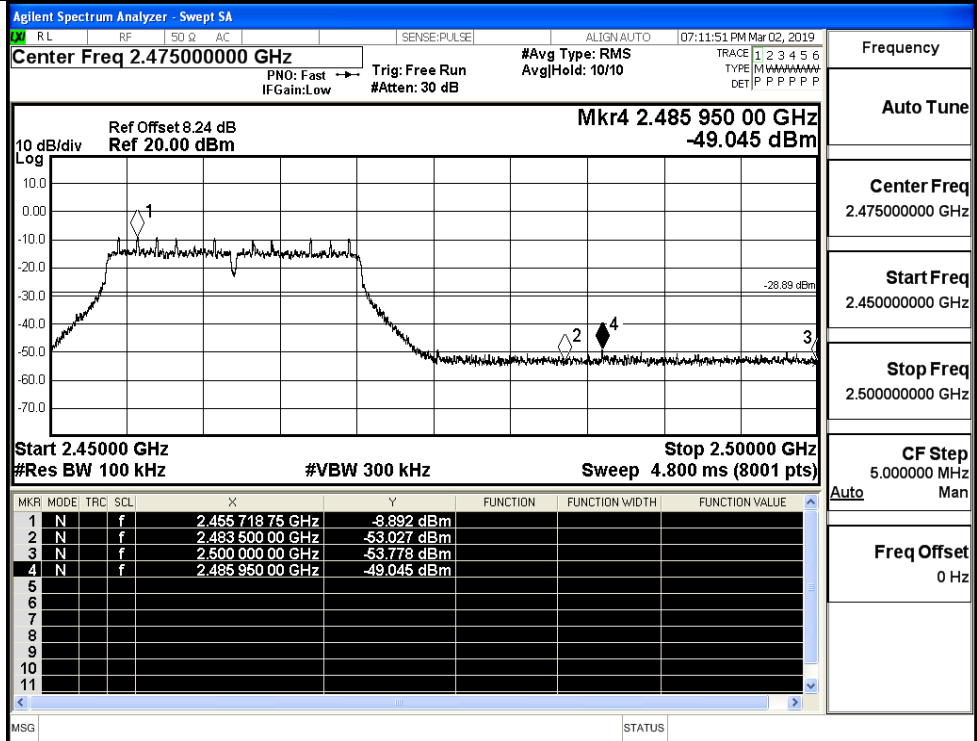
Start Freq  
2.31000000 GHz

Stop Freq  
2.42500000 GHz

CF Step  
11.500000 MHz

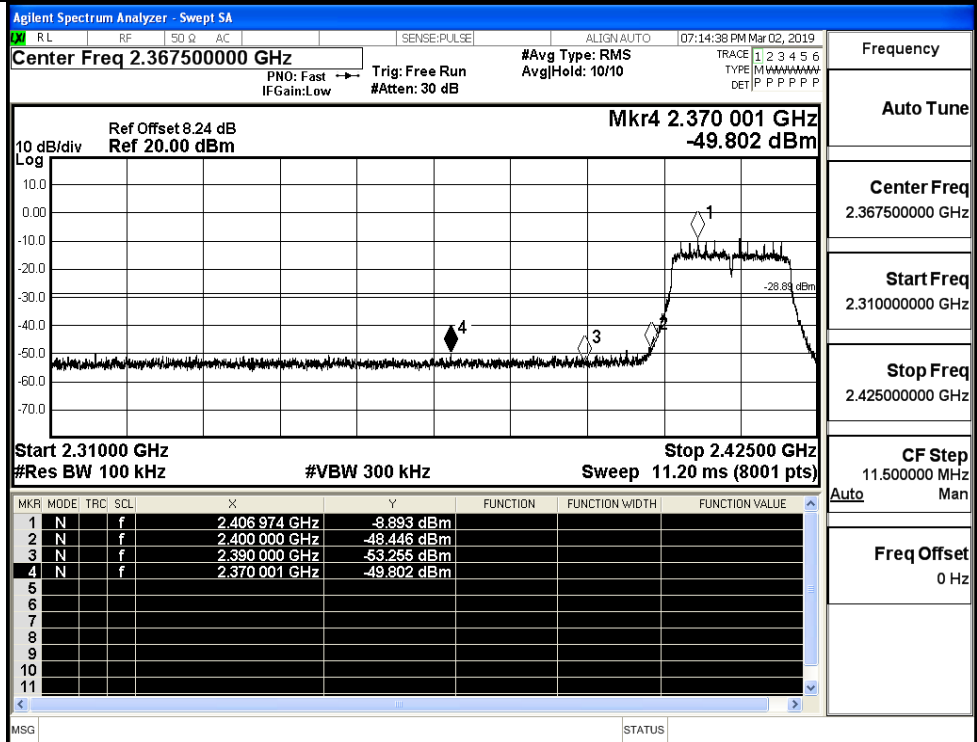
Freq Offset  
0 Hz

11G/HCH



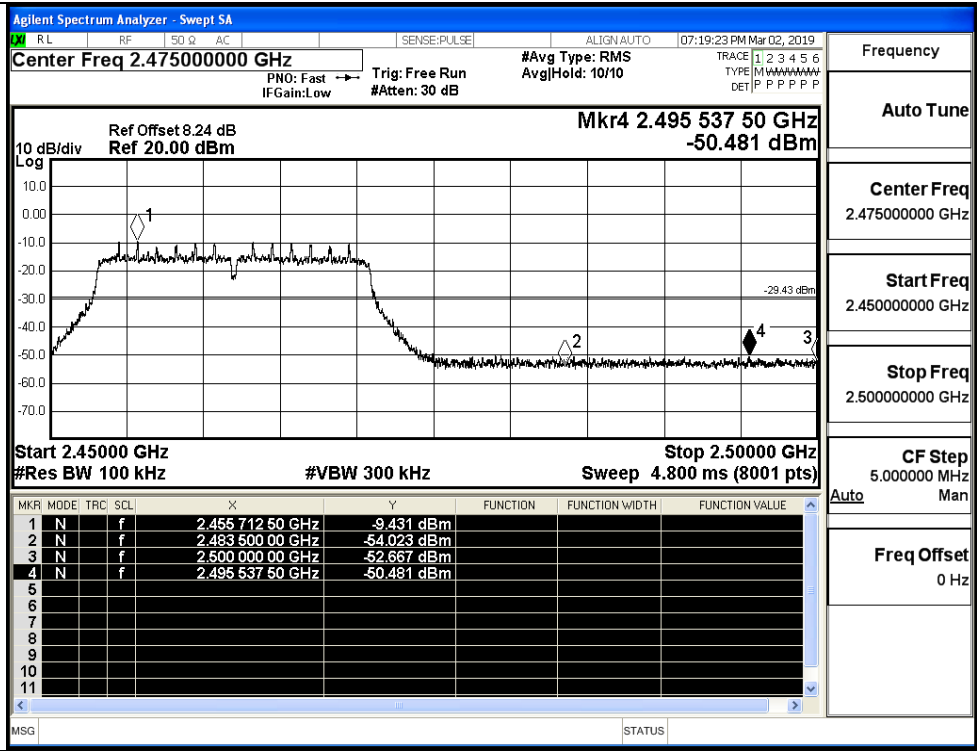
Frequency	2.475000000 GHz
Auto Tune	
Center Freq	2.475000000 GHz
Start Freq	2.450000000 GHz
Stop Freq	2.500000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N20SISO/LCH

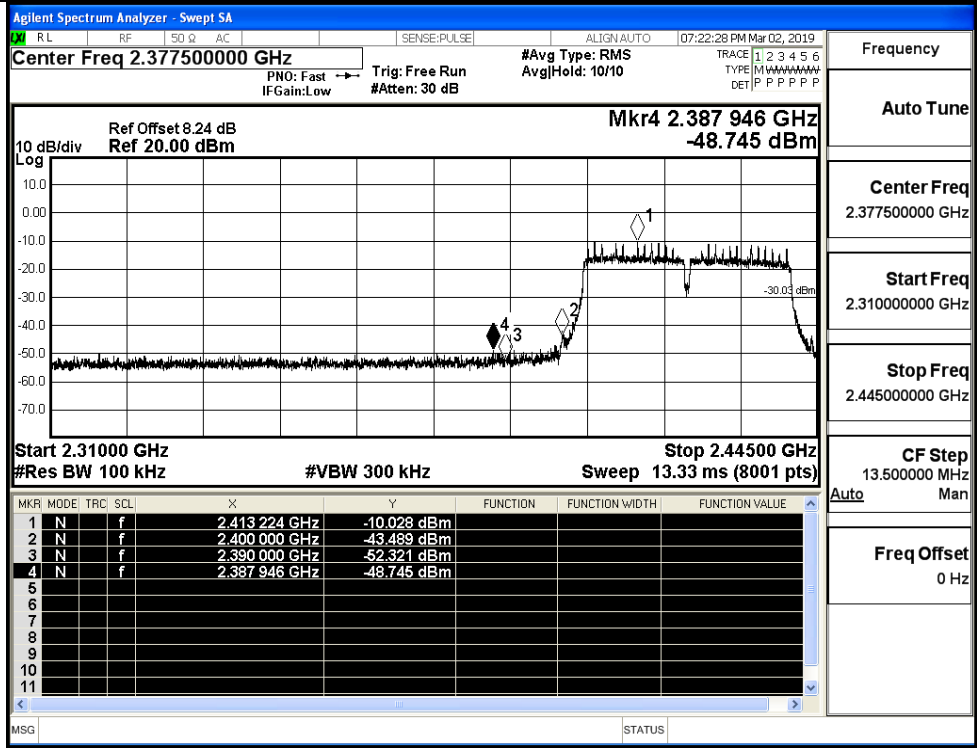


Frequency	2.367500000 GHz
Auto Tune	
Center Freq	2.367500000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.425000000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

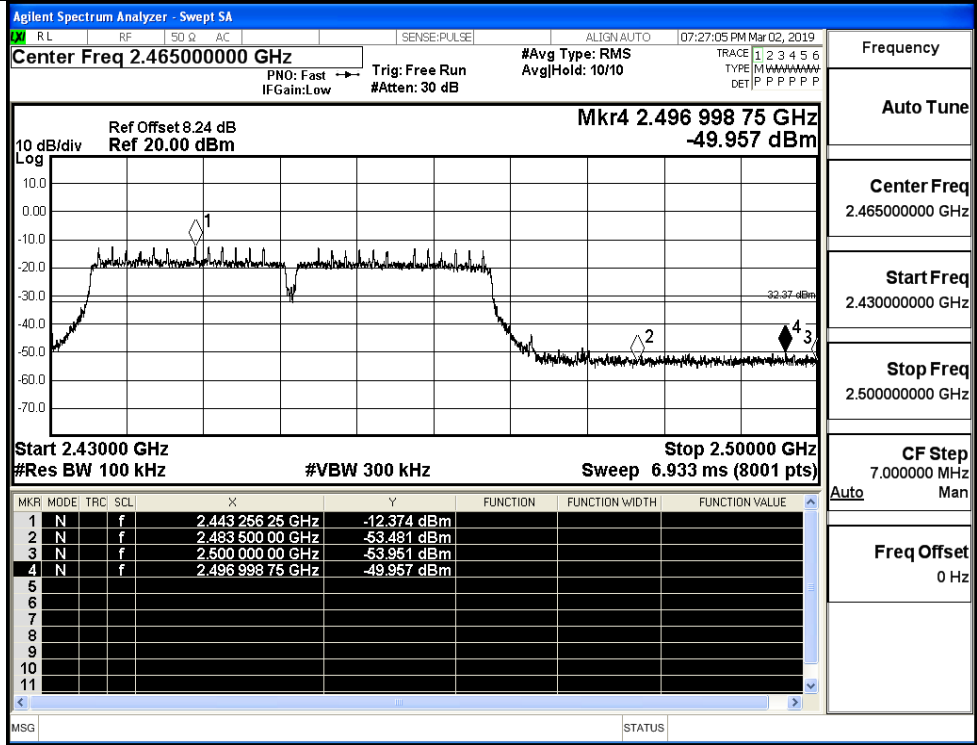
11N20SISO/HCH



11N40SISO/LCH



11N40SISO/HCH

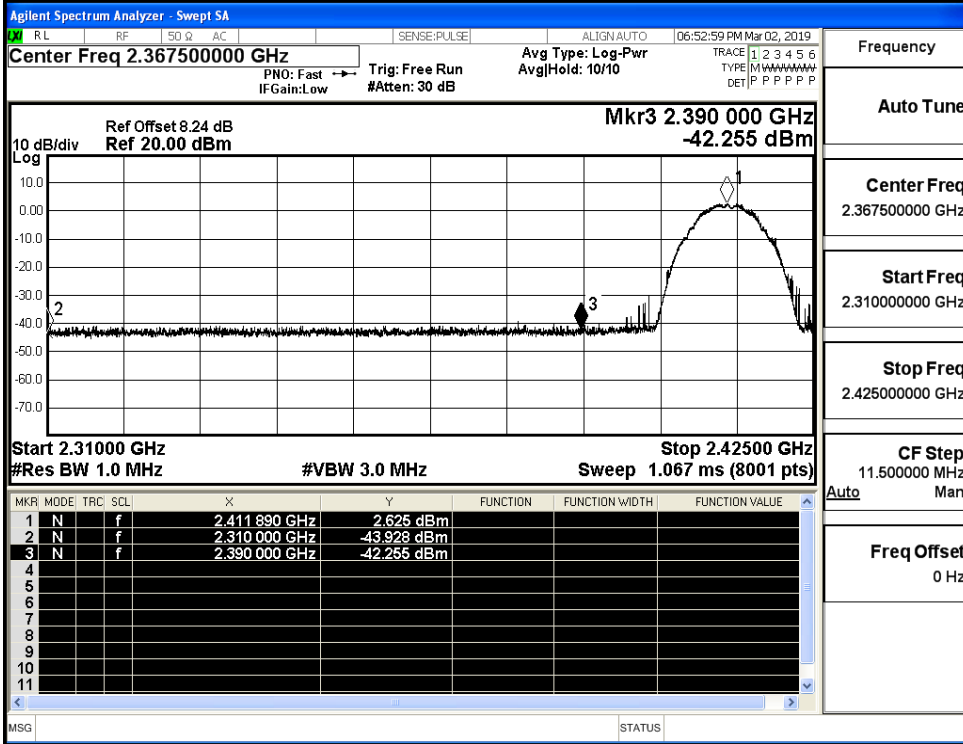


### A.7 Restrict-band band-edge measurements

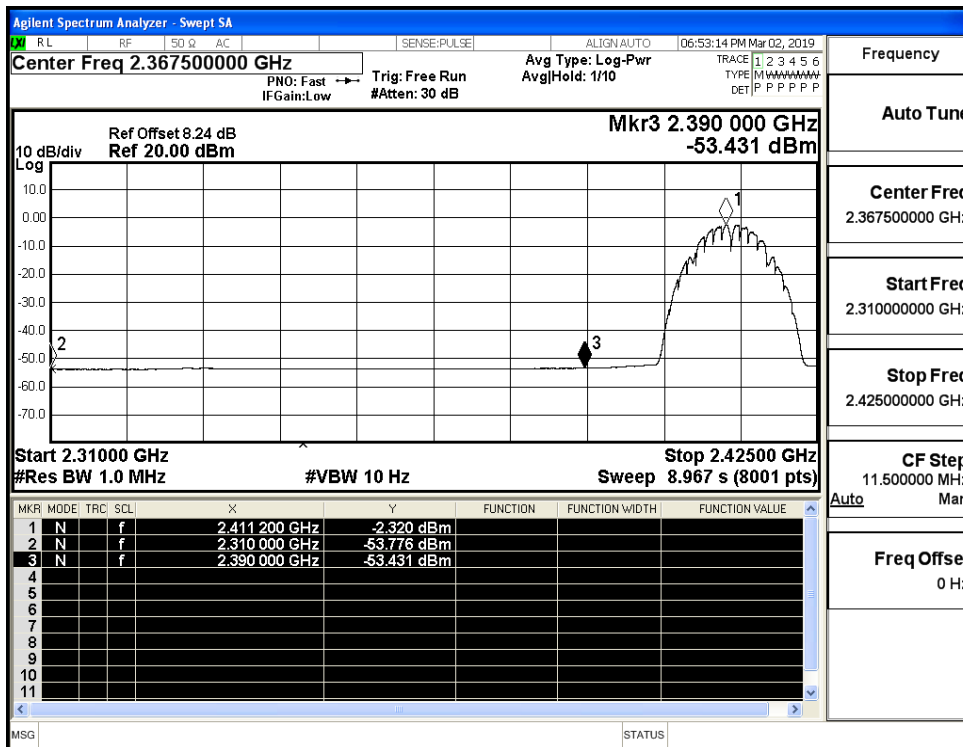
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-43.928	3.00	0	54.300	PEAK	74	PASS
	2412	Ant1	2310.0	-53.776	3.00	0	44.452	AV	54	PASS
	2412	Ant1	2390.0	-42.255	3.00	0	55.973	PEAK	74	PASS
	2412	Ant1	2390.0	-53.431	3.00	0	44.797	AV	54	PASS
	2462	Ant1	2483.5	-43.303	3.00	0	54.925	PEAK	74	PASS
	2462	Ant1	2483.5	-53.345	3.00	0	44.883	AV	54	PASS
	2462	Ant1	2500.0	-43.478	3.00	0	54.750	PEAK	74	PASS
	2462	Ant1	2500.0	-53.156	3.00	0	45.072	AV	54	PASS
11G	2412	Ant1	2310.0	-43.512	3.00	0	54.716	PEAK	74	PASS
	2412	Ant1	2310.0	-53.825	3.00	0	44.403	AV	54	PASS
	2412	Ant1	2390.0	-43.193	3.00	0	55.035	PEAK	74	PASS
	2412	Ant1	2390.0	-53.420	3.00	0	44.808	AV	54	PASS
	2462	Ant1	2483.5	-43.522	3.00	0	54.706	PEAK	74	PASS
	2462	Ant1	2483.5	-53.384	3.00	0	44.844	AV	54	PASS
	2462	Ant1	2500.0	-44.140	3.00	0	54.088	PEAK	74	PASS
	2462	Ant1	2500.0	-53.172	3.00	0	45.056	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.342	3.00	0	55.886	PEAK	74	PASS
	2412	Ant1	2310.0	-53.792	3.00	0	44.436	AV	54	PASS
	2412	Ant1	2390.0	-41.848	3.00	0	56.380	PEAK	74	PASS
	2412	Ant1	2390.0	-53.400	3.00	0	44.828	AV	54	PASS
	2462	Ant1	2483.5	-42.460	3.00	0	55.768	PEAK	74	PASS
	2462	Ant1	2483.5	-53.368	3.00	0	44.860	AV	54	PASS
	2462	Ant1	2500.0	-43.042	3.00	0	55.186	PEAK	74	PASS
	2462	Ant1	2500.0	-53.222	3.00	0	45.006	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.778	3.00	0	54.450	PEAK	74	PASS
	2422	Ant1	2310.0	-53.762	3.00	0	44.466	AV	54	PASS

	2422	Ant1	2390.0	-35.670	3.00	0	62.558	PEAK	74	PASS
	2422	Ant1	2390.0	-52.860	3.00	0	45.368	AV	54	PASS
	2452	Ant1	2483.5	-42.062	3.00	0	56.166	PEAK	74	PASS
	2452	Ant1	2483.5	-53.226	3.00	0	45.002	AV	54	PASS
	2452	Ant1	2500.0	-43.239	3.00	0	54.989	PEAK	74	PASS
	2452	Ant1	2500.0	-53.199	3.00	0	45.029	AV	54	PASS

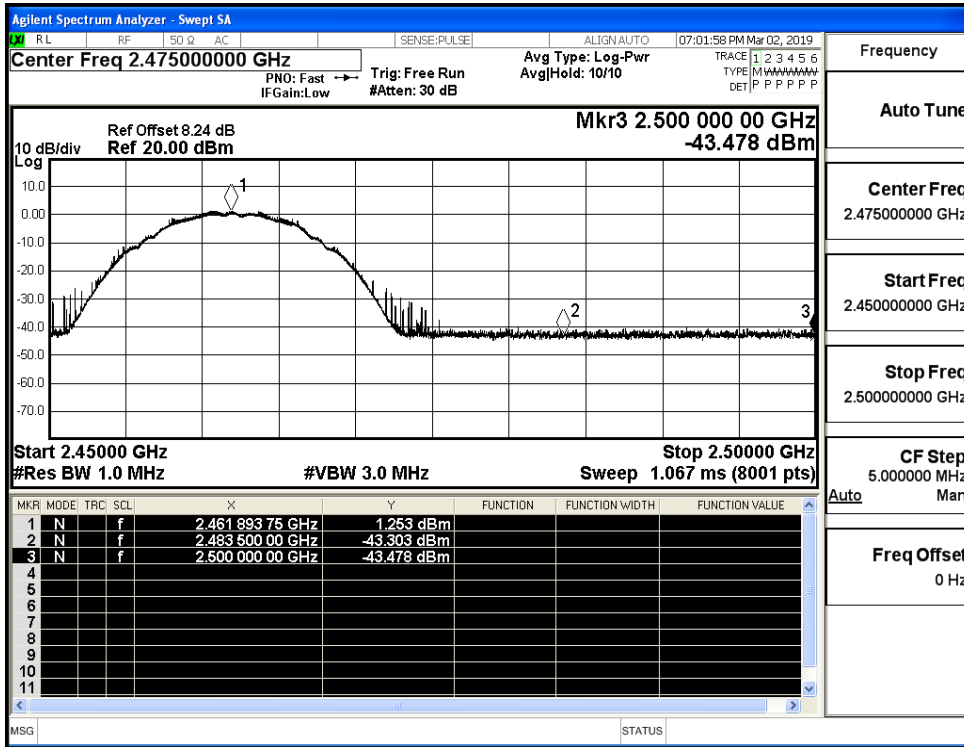
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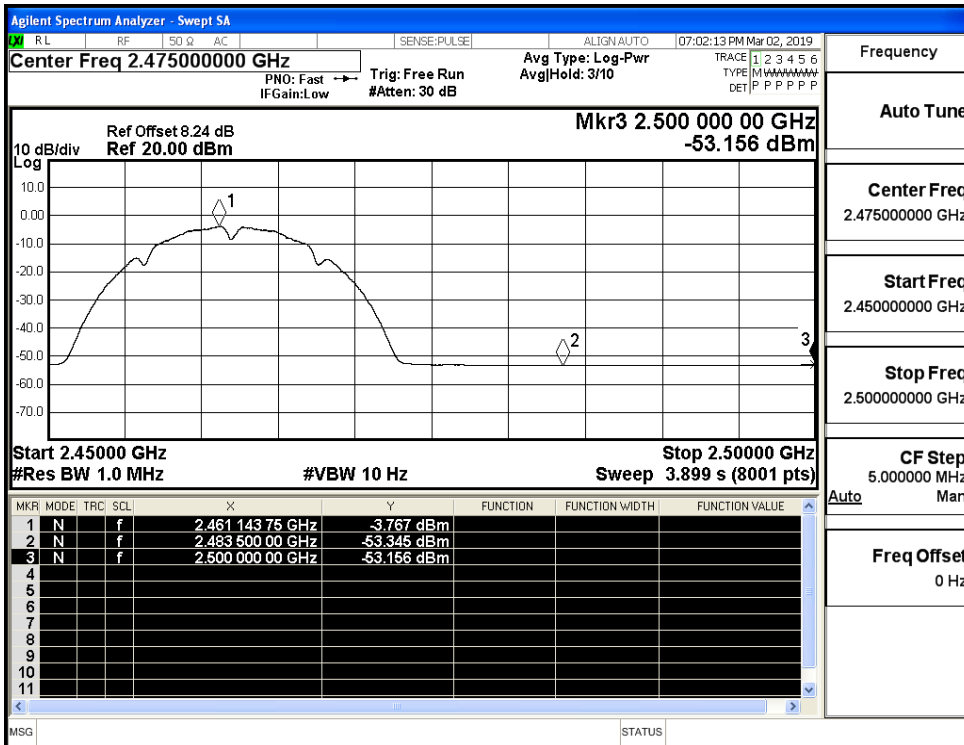
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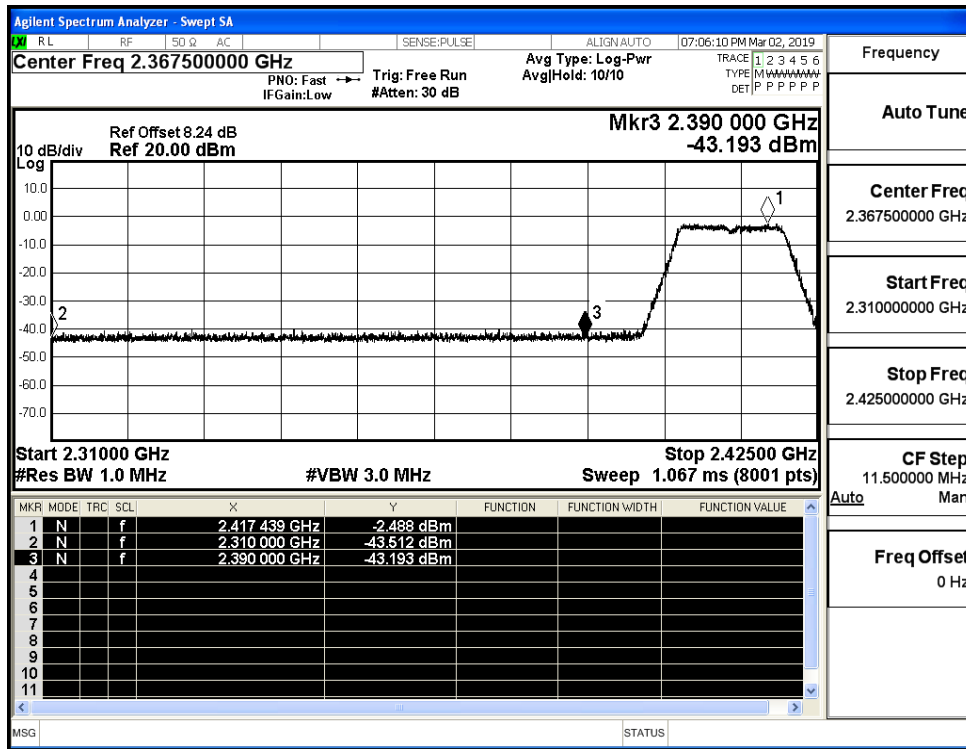


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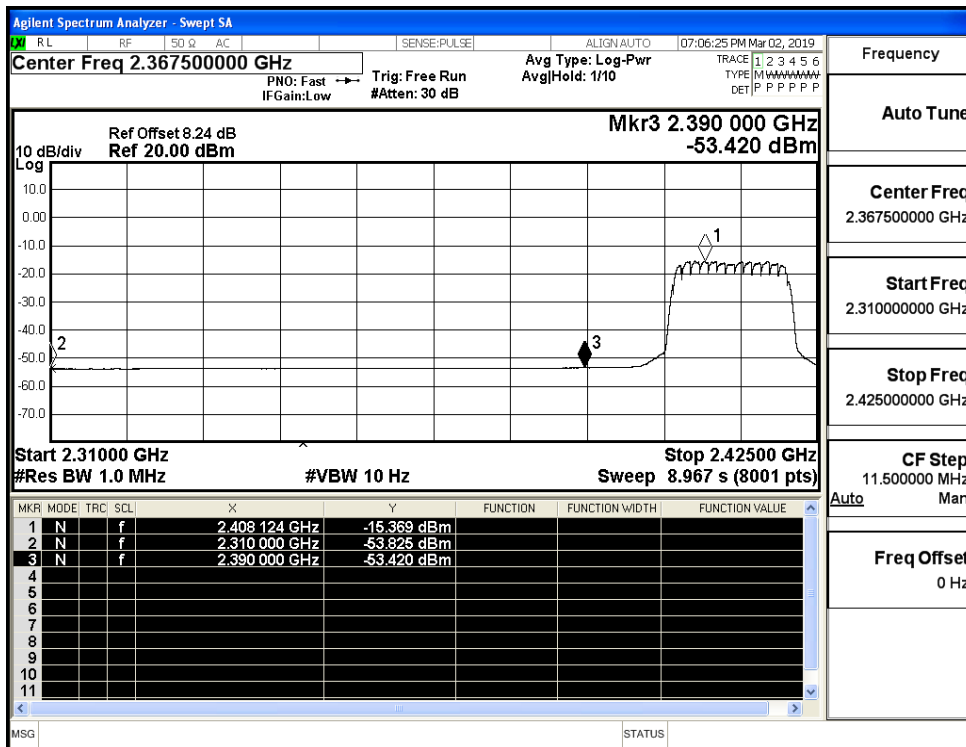




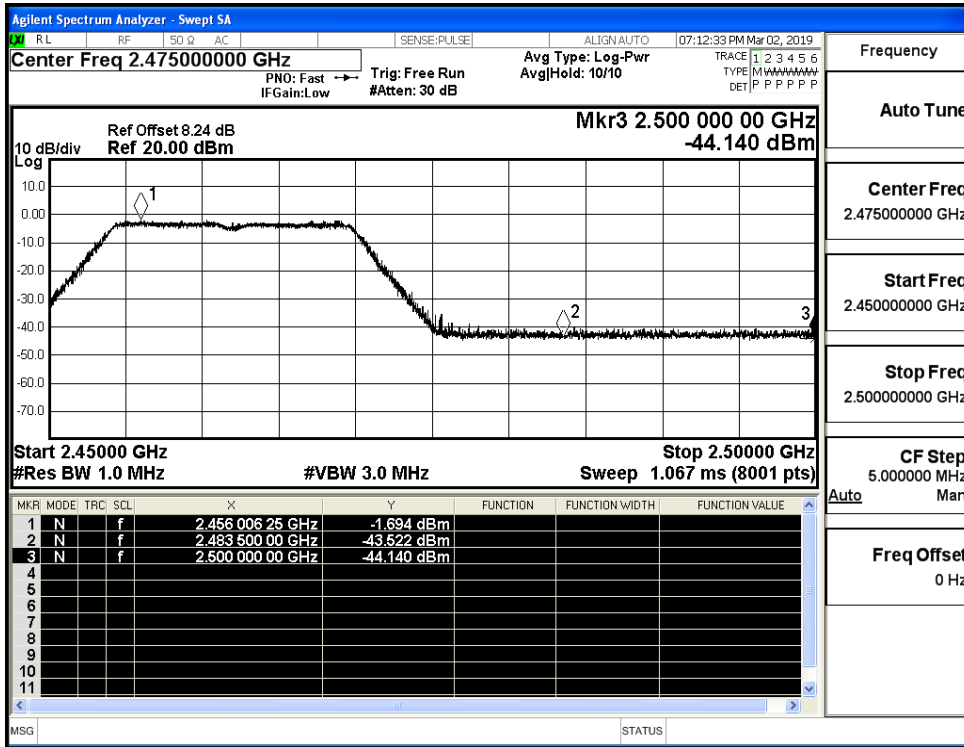
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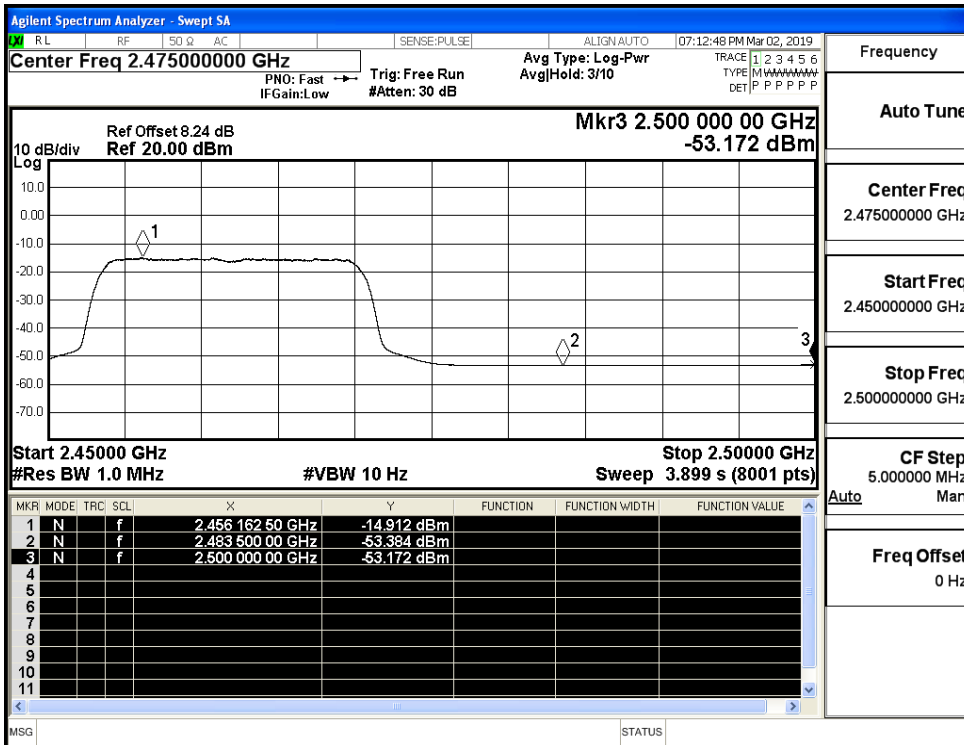
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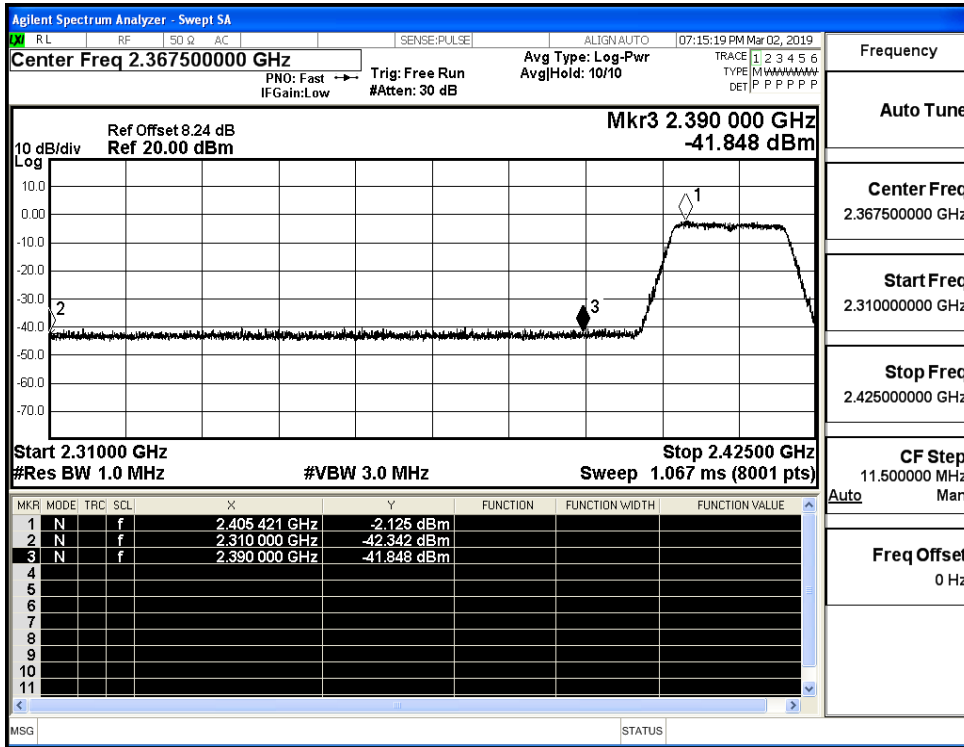
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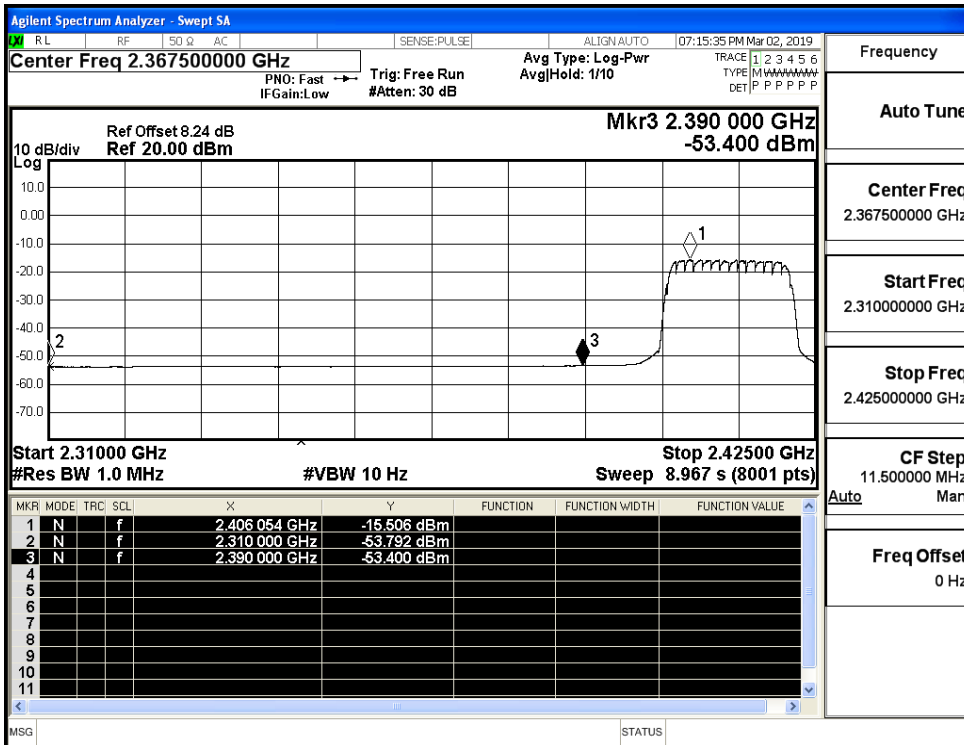
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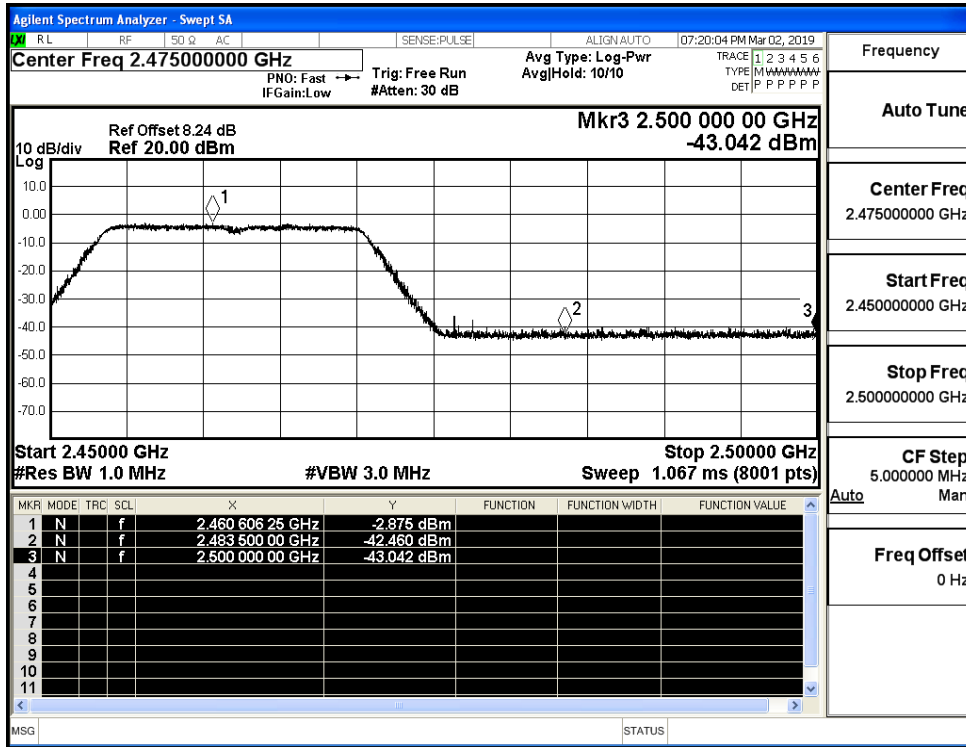
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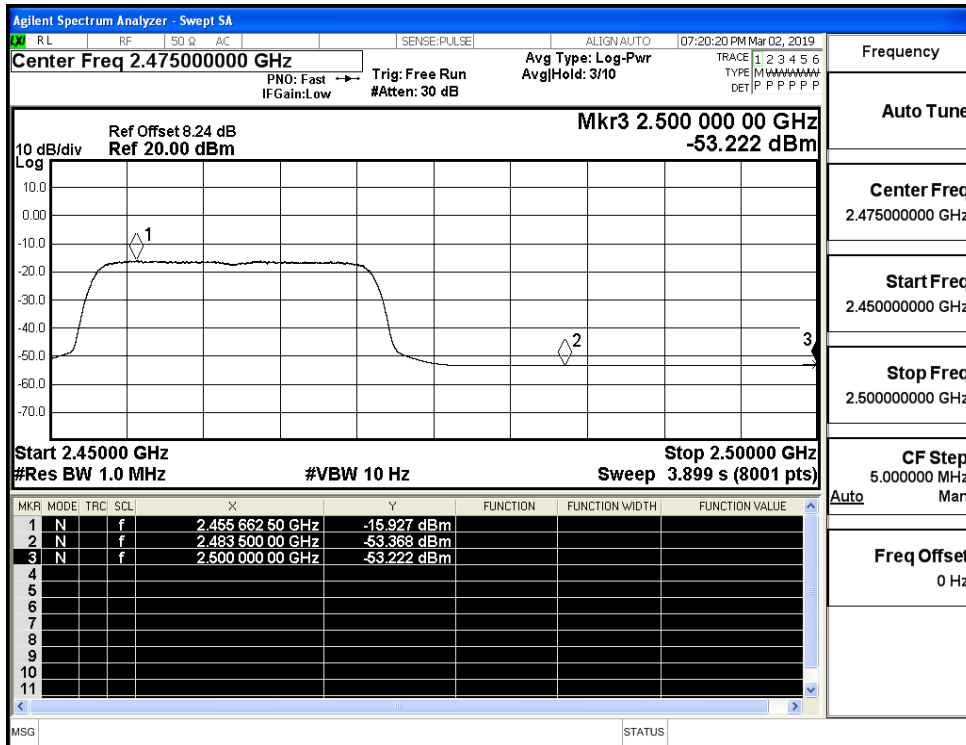
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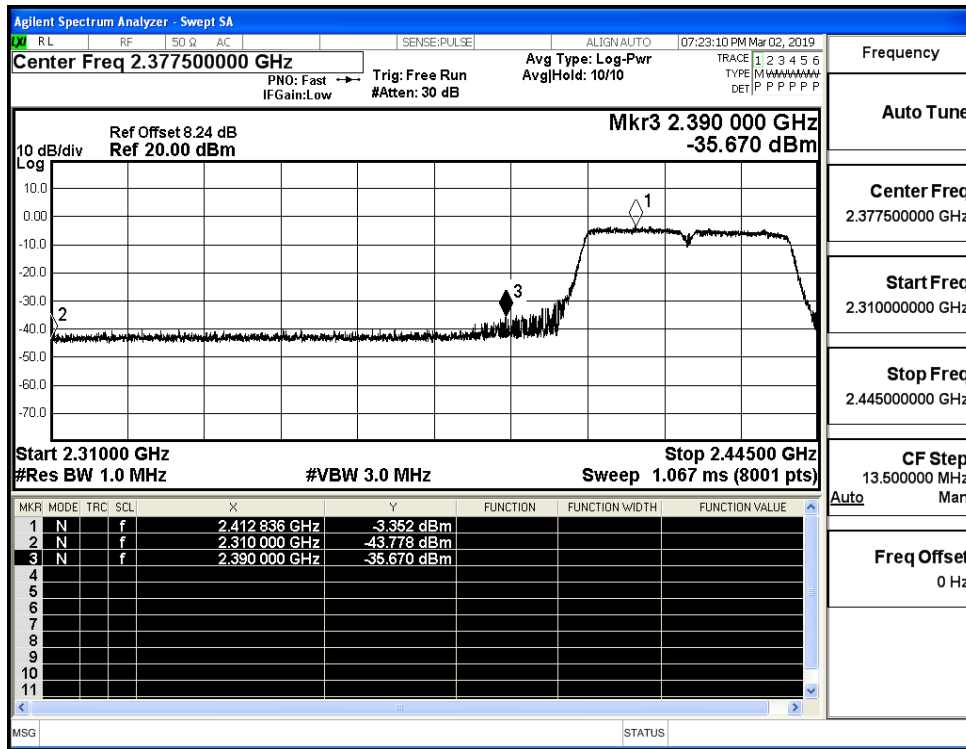
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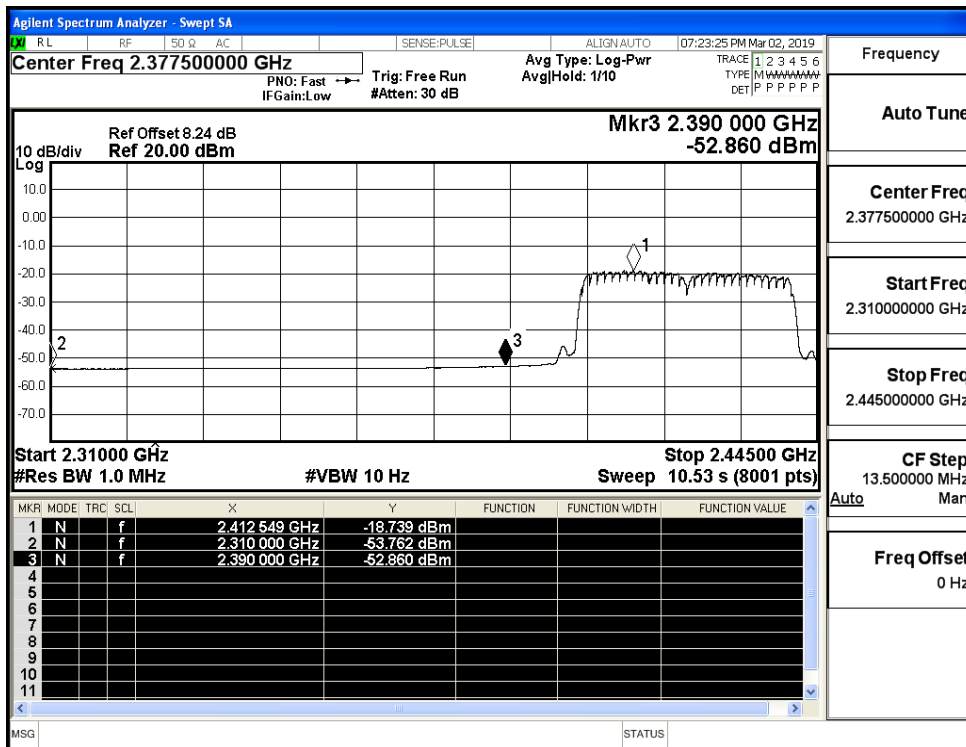
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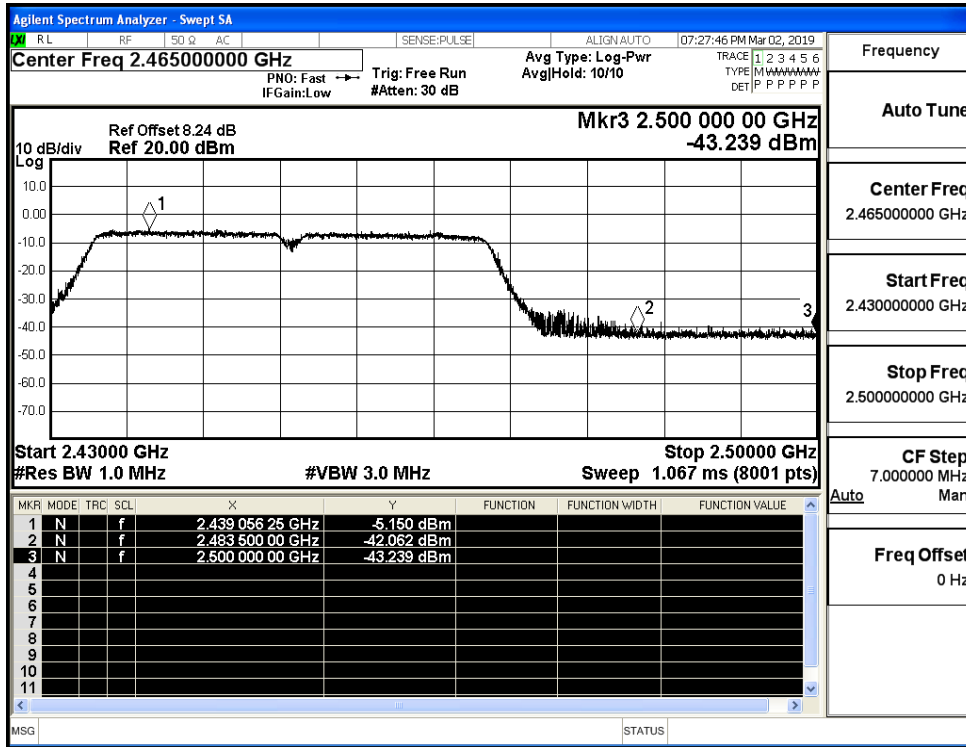
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Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



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



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

