

## Appendix C

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

Product Name: Android TV Box

Trade Mark: N/A

Test Model: ABOX

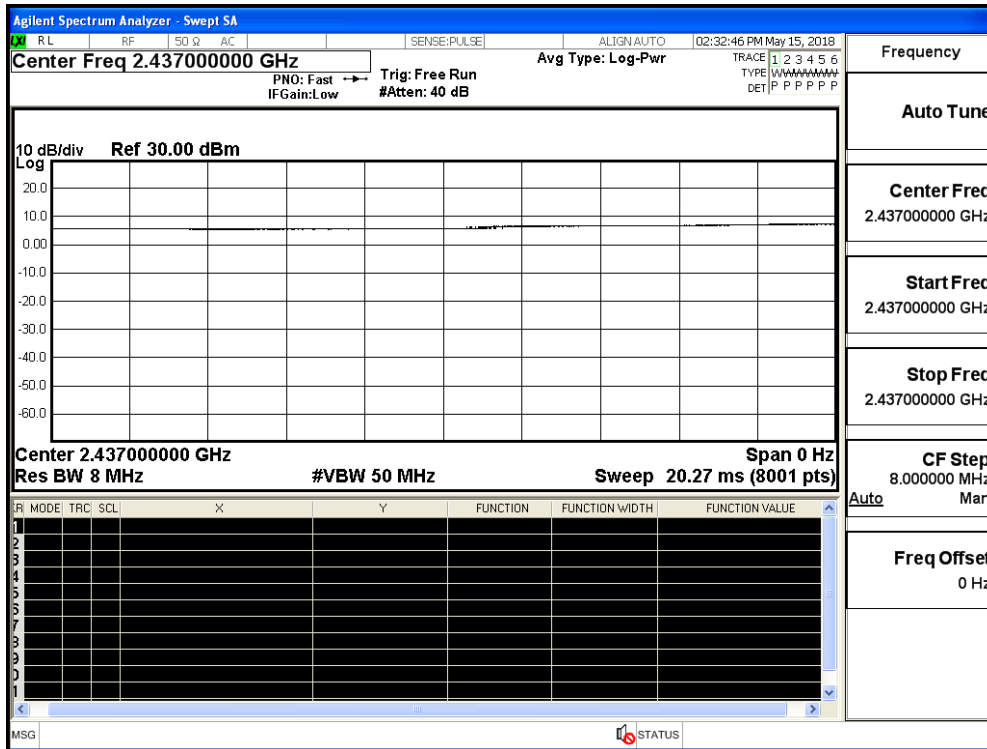
#### Environmental Conditions

Temperature:	22.5 ° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Ryan.Hu
Supervised by:	Jayden.Zhuo

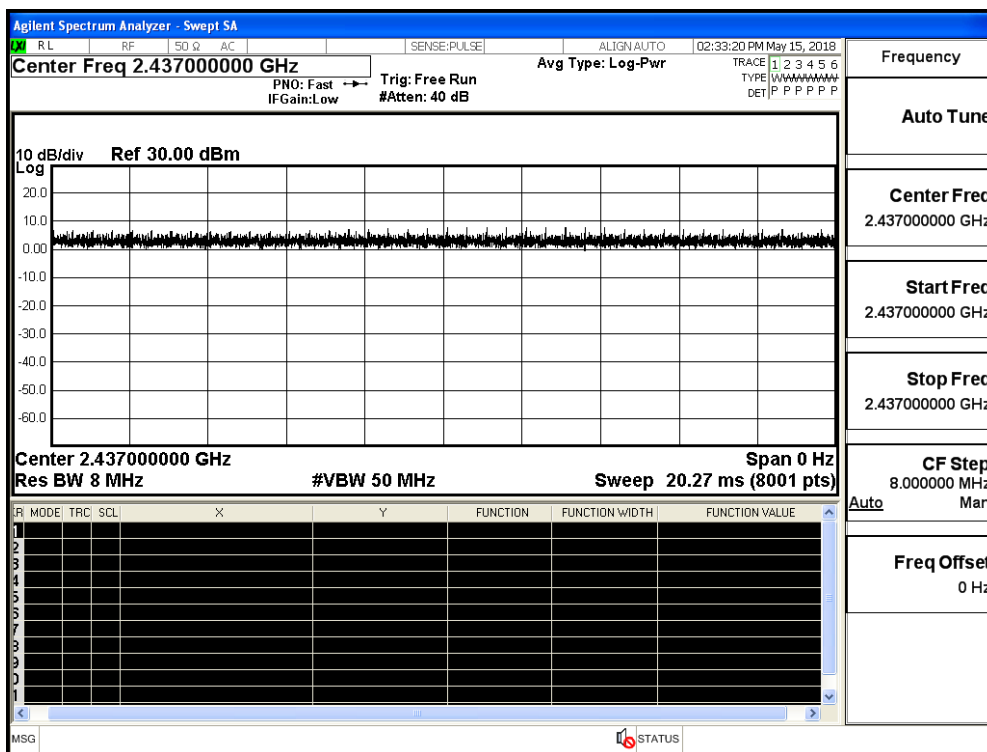
#### C.1 Duty Cycle

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

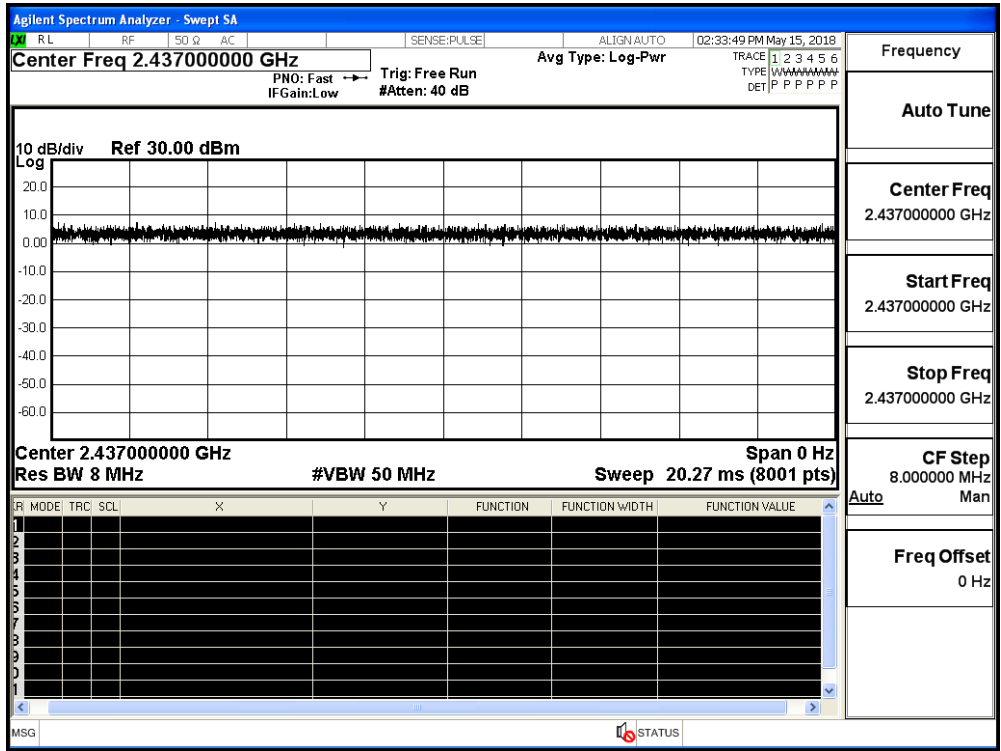
Duty Cycle\_11B\_2437\_Ant1



Duty Cycle\_11G\_2437\_Ant1



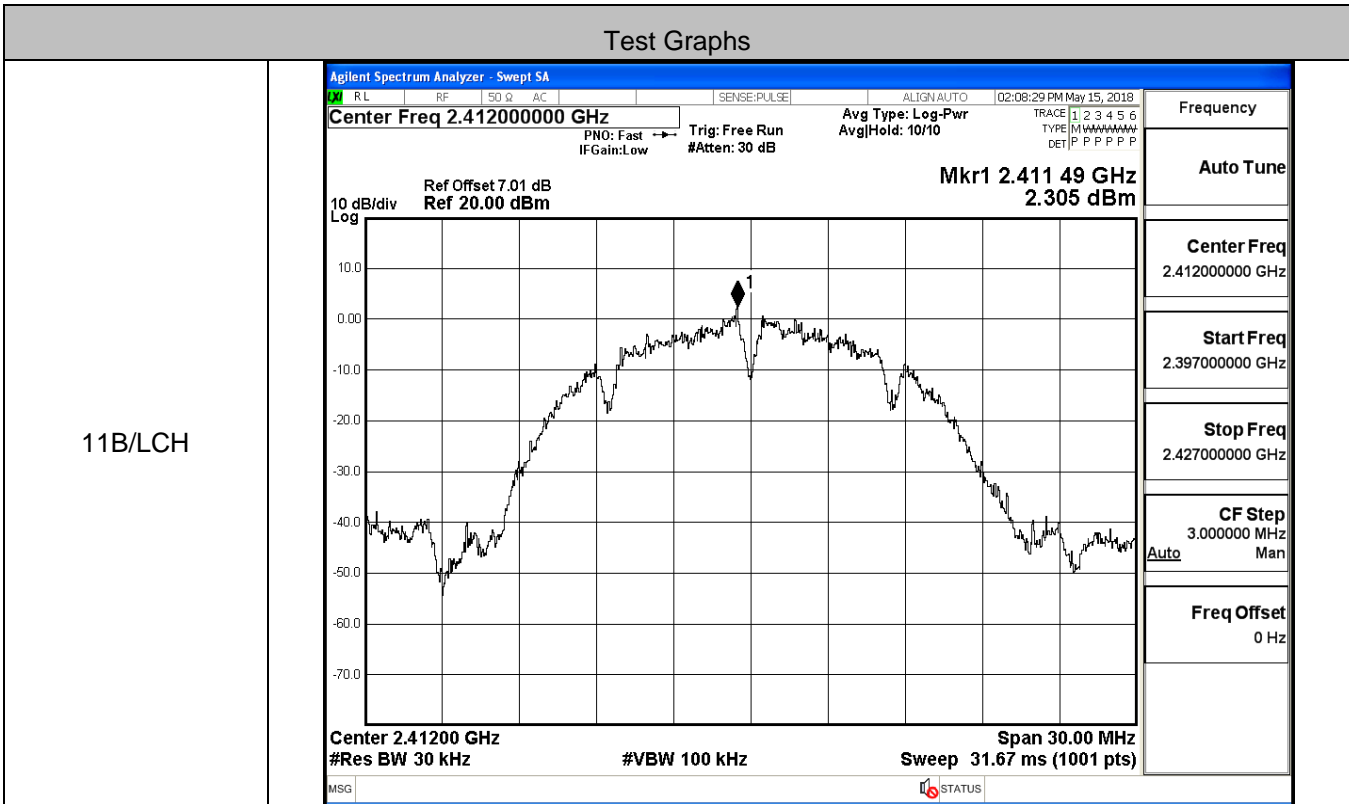
Duty Cycle\_11N20SISO\_2437\_Ant1



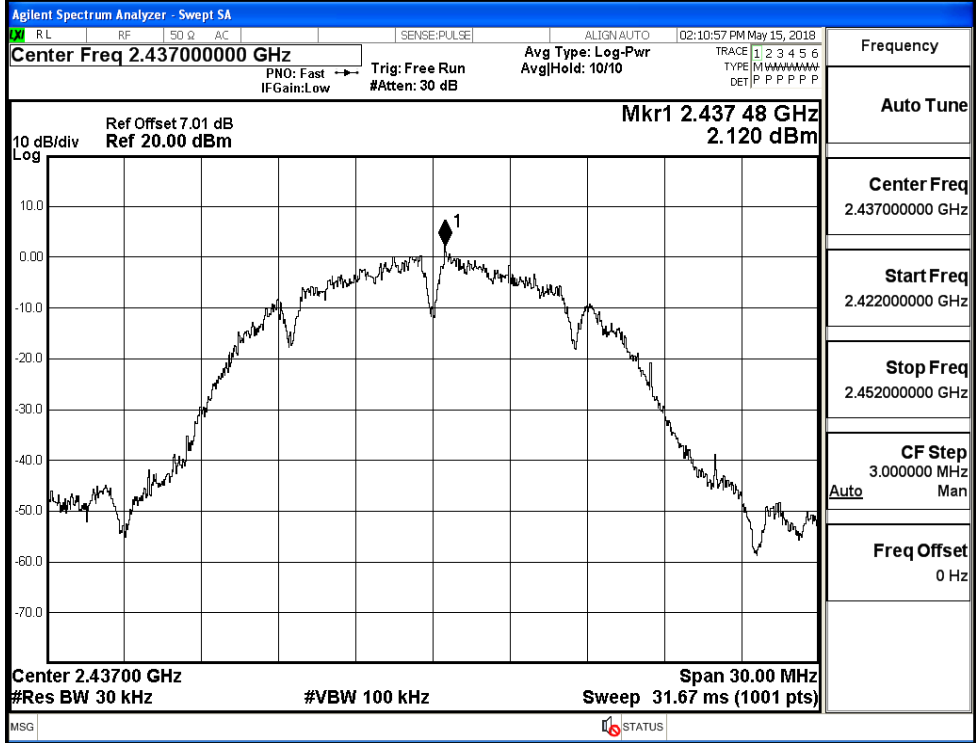
### C.2 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/30KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	2.305	8	PASS
	MCH	2.120	8	PASS
	HCH	2.827	8	PASS
11G	LCH	-2.400	8	PASS
	MCH	-2.303	8	PASS
	HCH	-2.413	8	PASS
11N20SISO	LCH	-3.232	8	PASS
	MCH	-3.443	8	PASS
	HCH	-2.809	8	PASS

#### Test Graphs

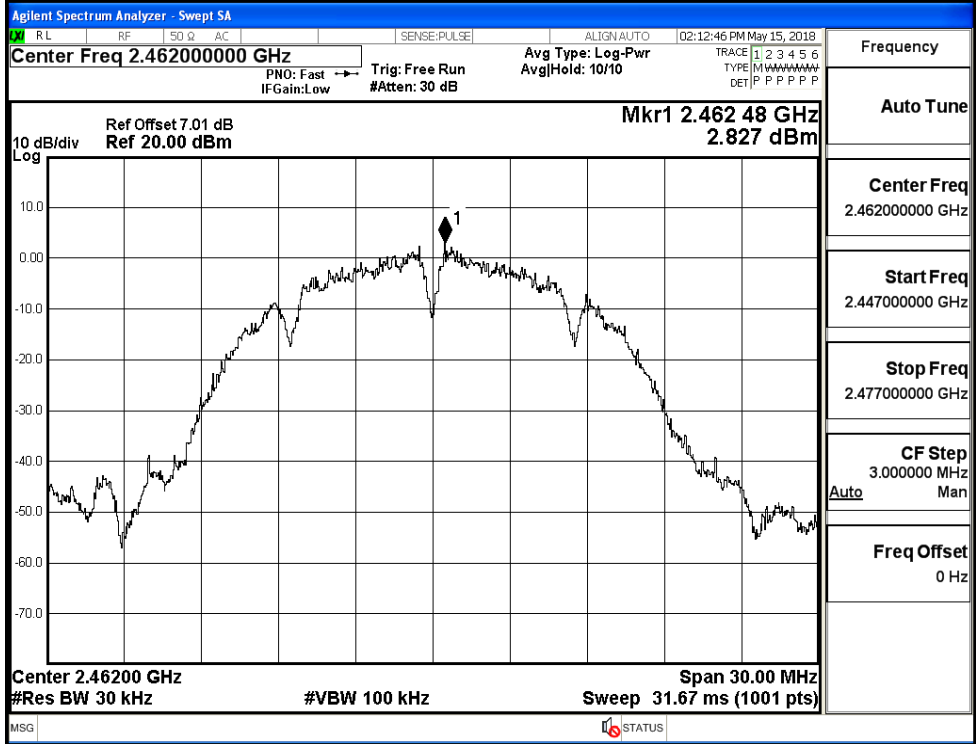


11B/MCH



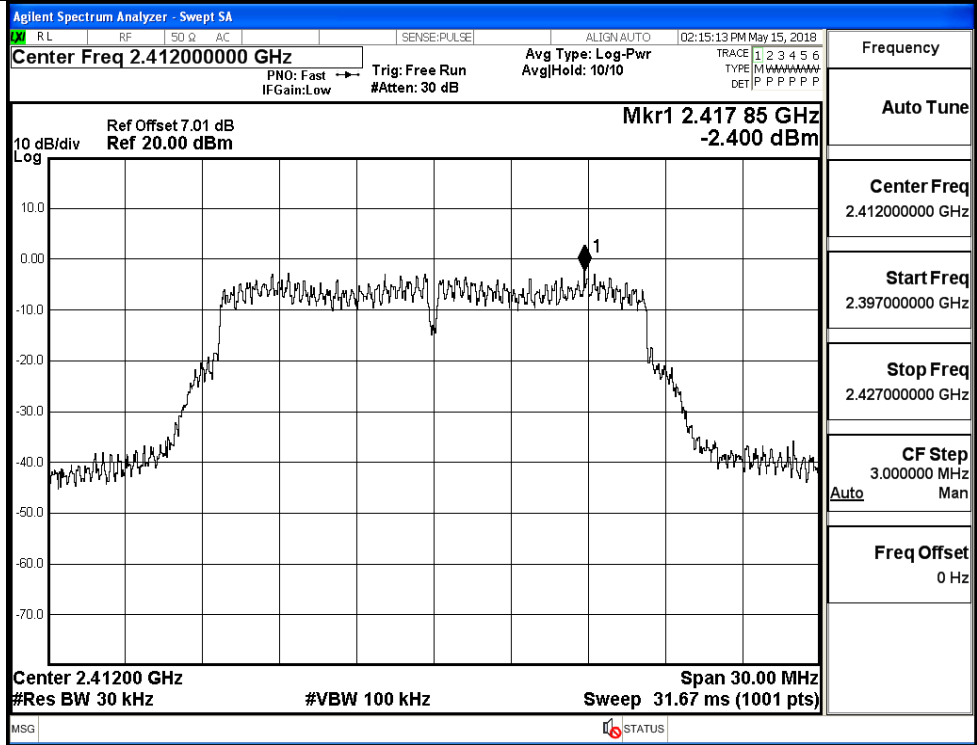
Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.42200000 GHz
Stop Freq 2.45200000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11B/HCH



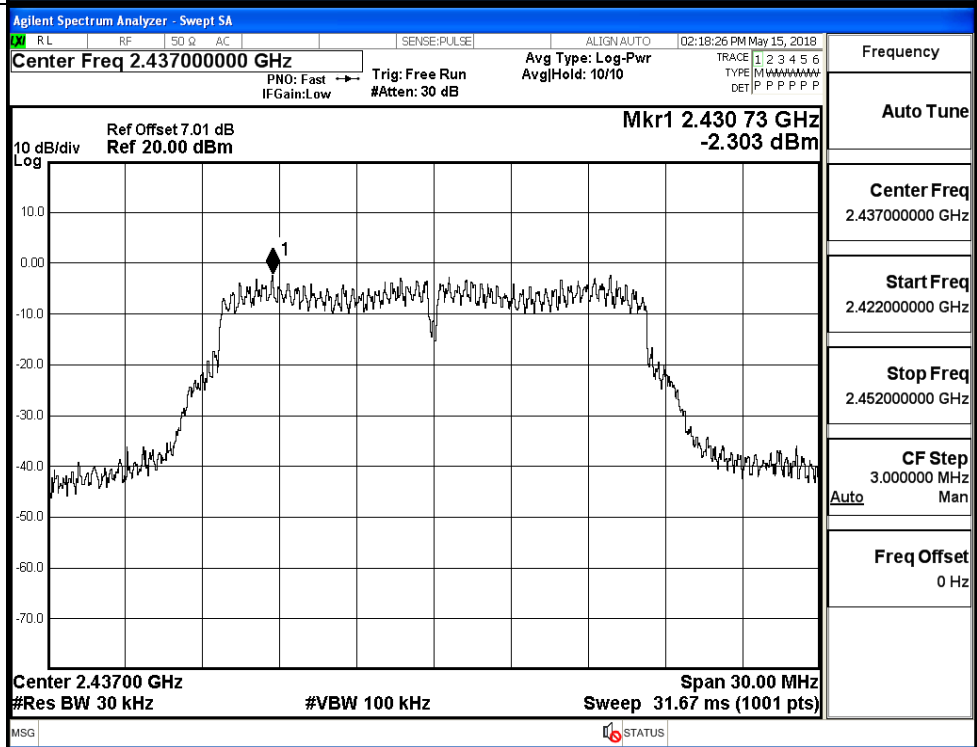
Frequency
Auto Tune
Center Freq 2.46200000 GHz
Start Freq 2.44700000 GHz
Stop Freq 2.47700000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/LCH



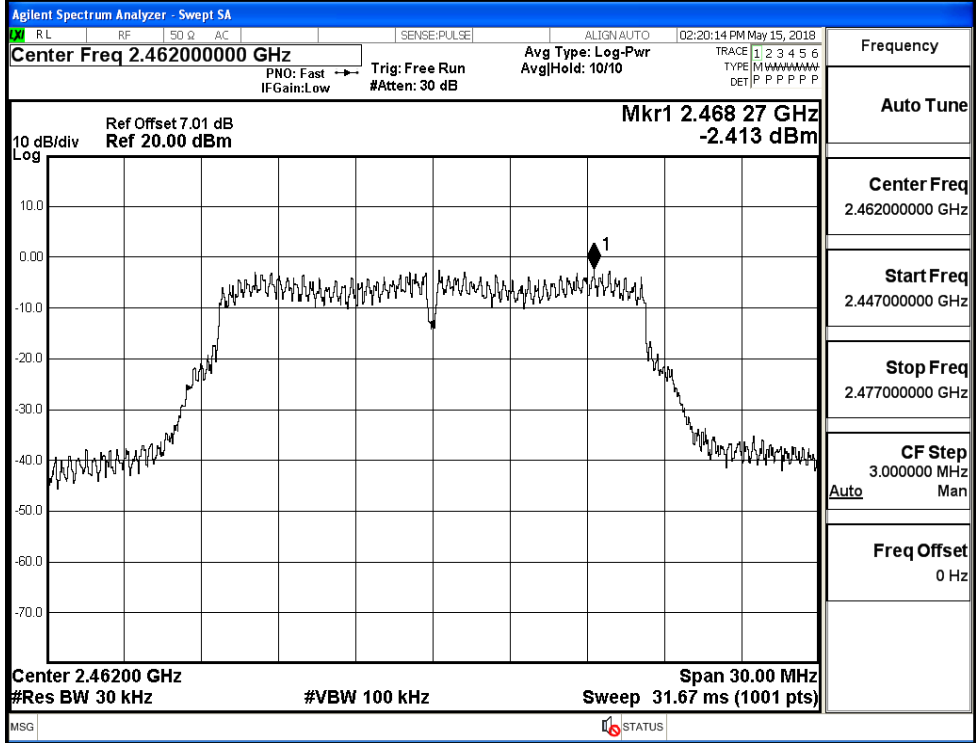
Frequency
Auto Tune
Center Freq 2.41200000 GHz
Start Freq 2.397000000 GHz
Stop Freq 2.427000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/MCH

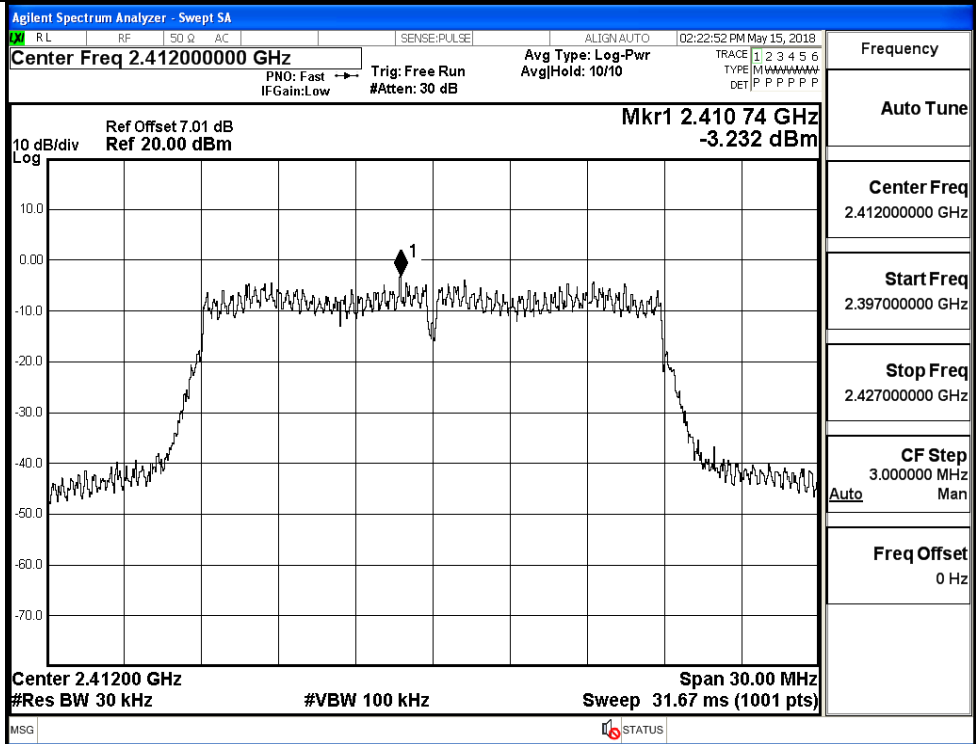


Frequency
Auto Tune
Center Freq 2.437000000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.452000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

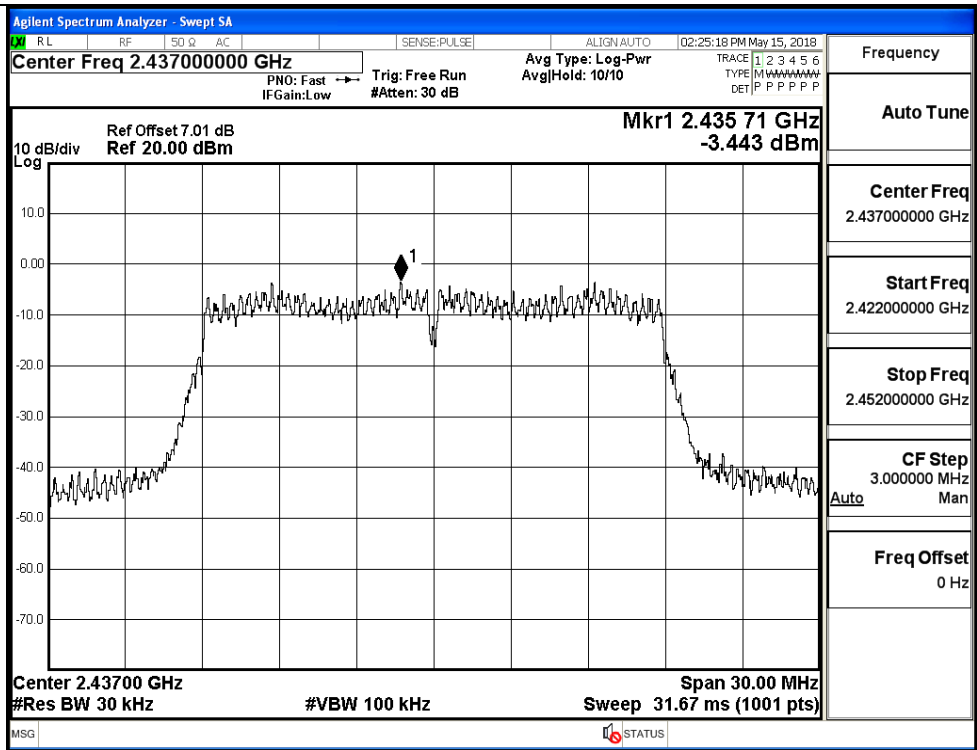
11G/HCH



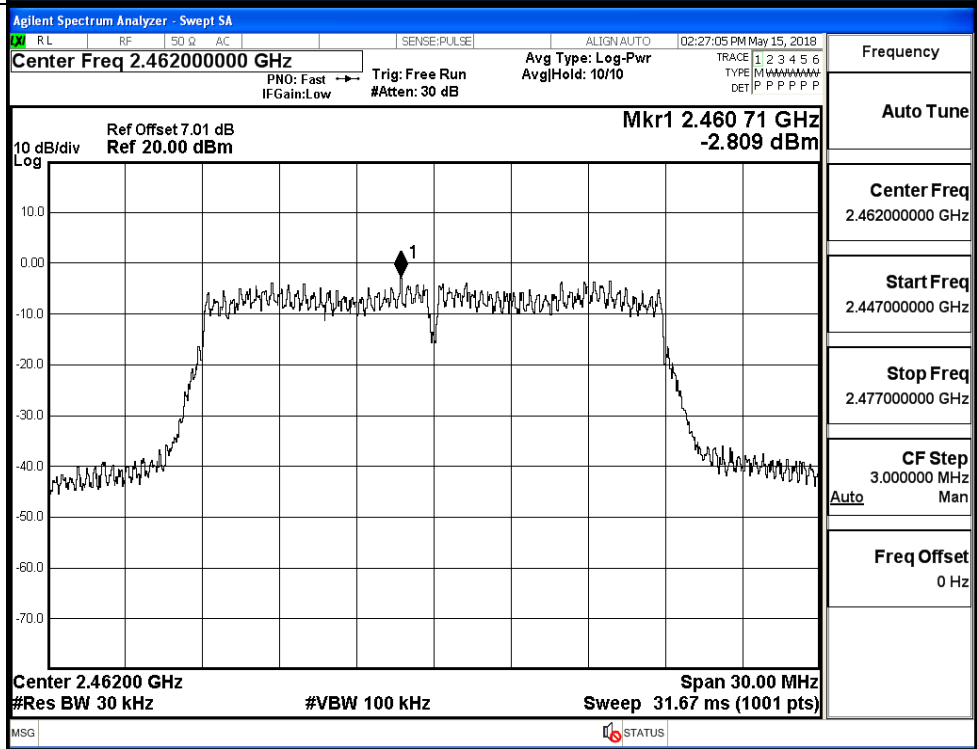
11N20SISO/LCH



11N20SISO/MCH



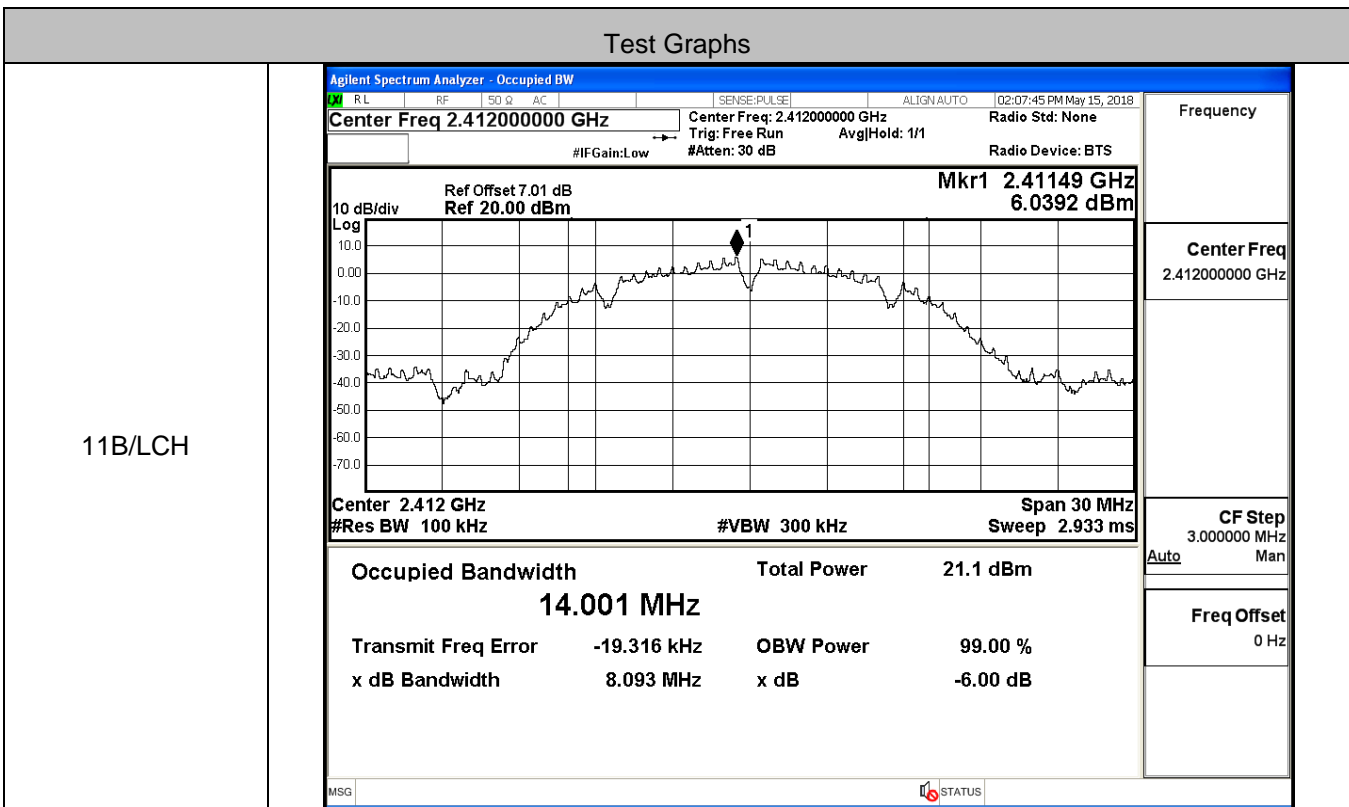
11N20SISO/HCH



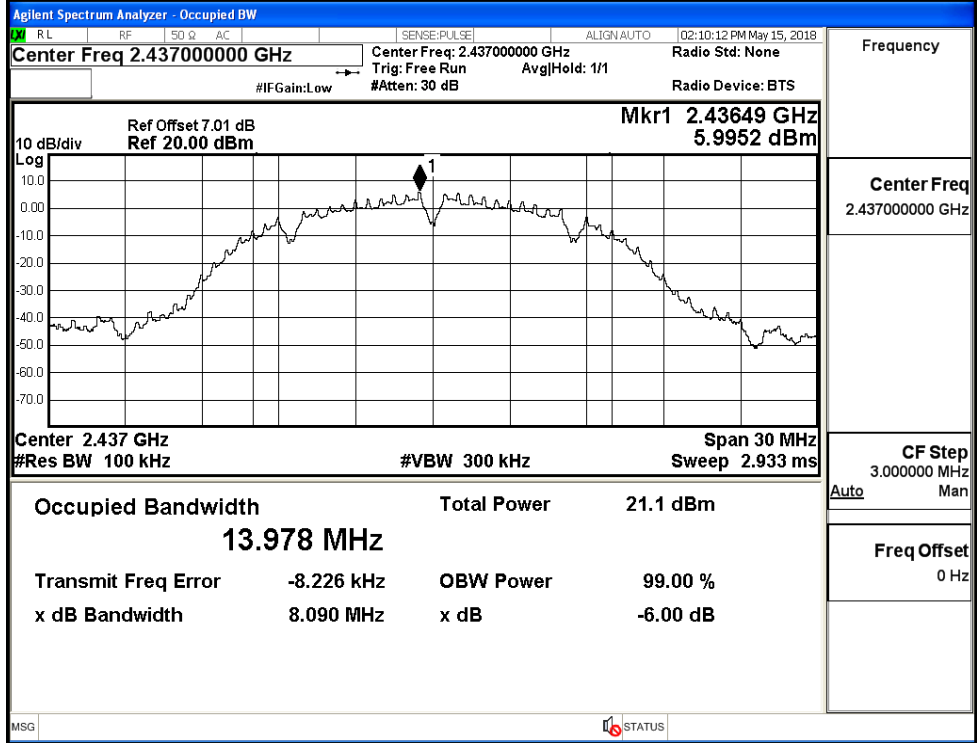


**C.3 6dB Bandwidth**

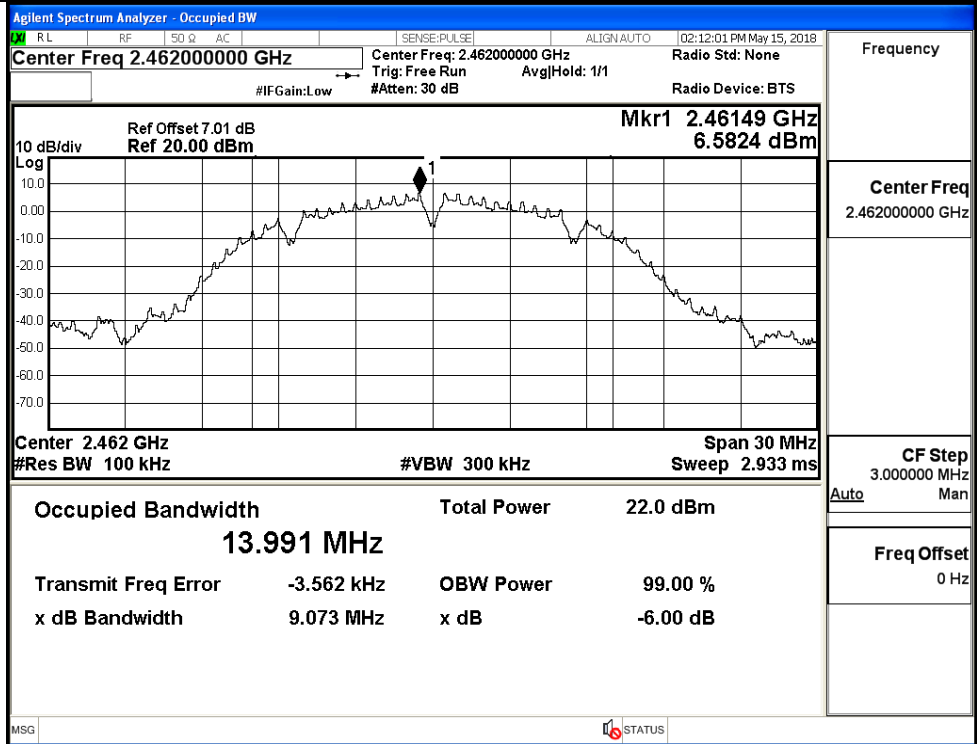
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.093	≥0.5	PASS
	MCH	8.090	≥0.5	PASS
	HCH	9.073	≥0.5	PASS
11G	LCH	15.72	≥0.5	PASS
	MCH	15.82	≥0.5	PASS
	HCH	15.79	≥0.5	PASS
11N20SISO	LCH	17.58	≥0.5	PASS
	MCH	16.90	≥0.5	PASS
	HCH	17.57	≥0.5	PASS



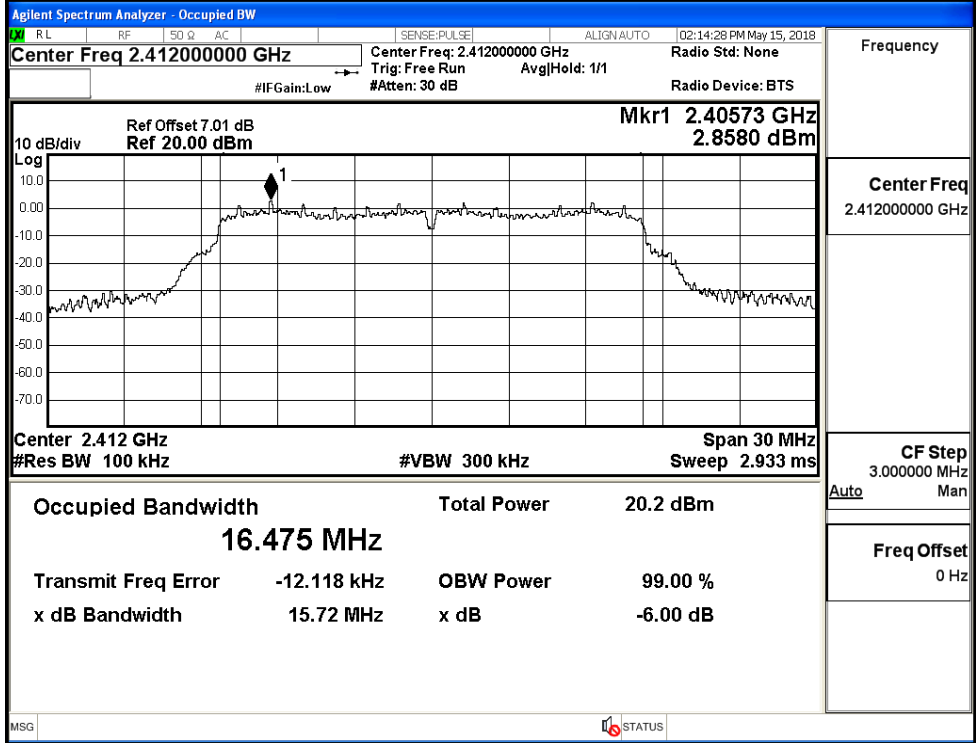
11B/MCH



11B/HCH

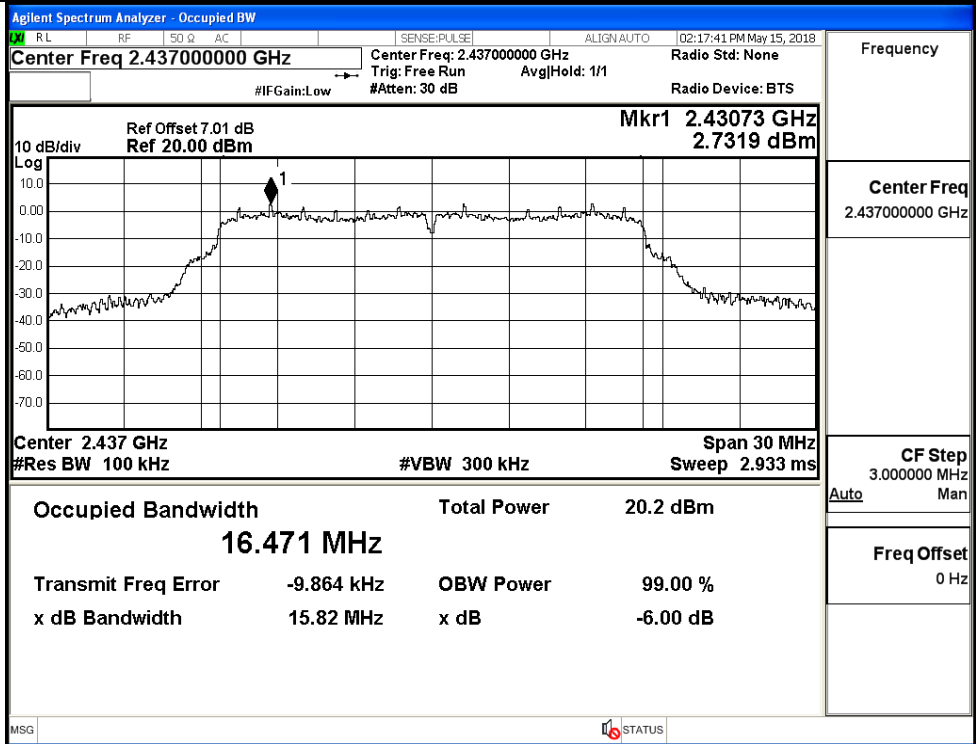


11G/LCH



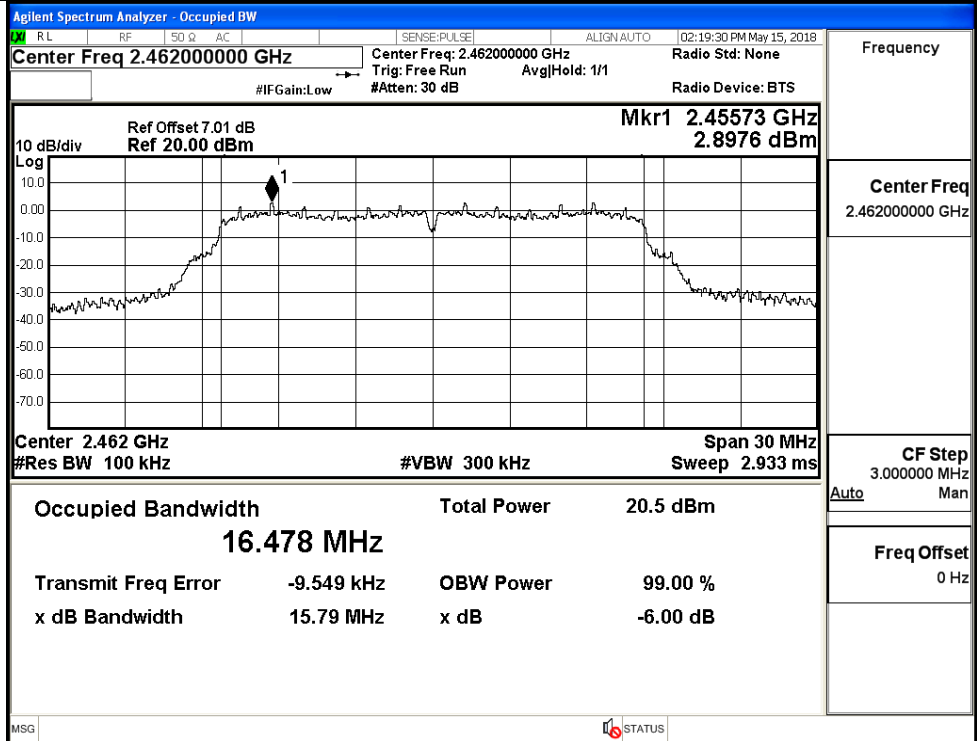
Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11G/MCH



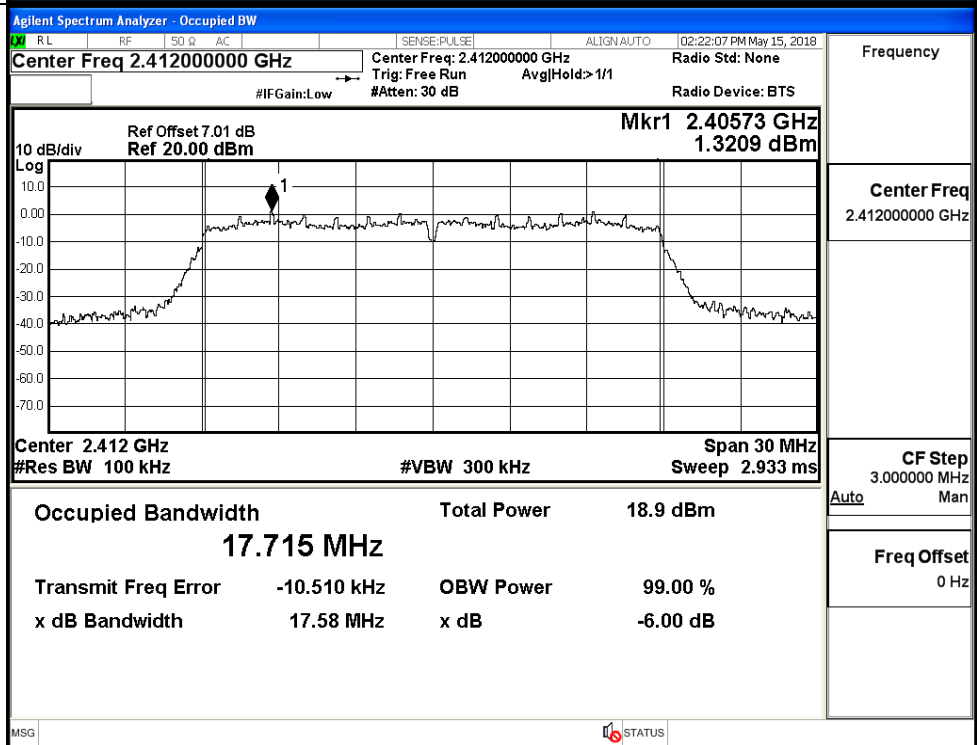
Frequency	2.43700000 GHz
Center Freq	2.43700000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11G/HCH



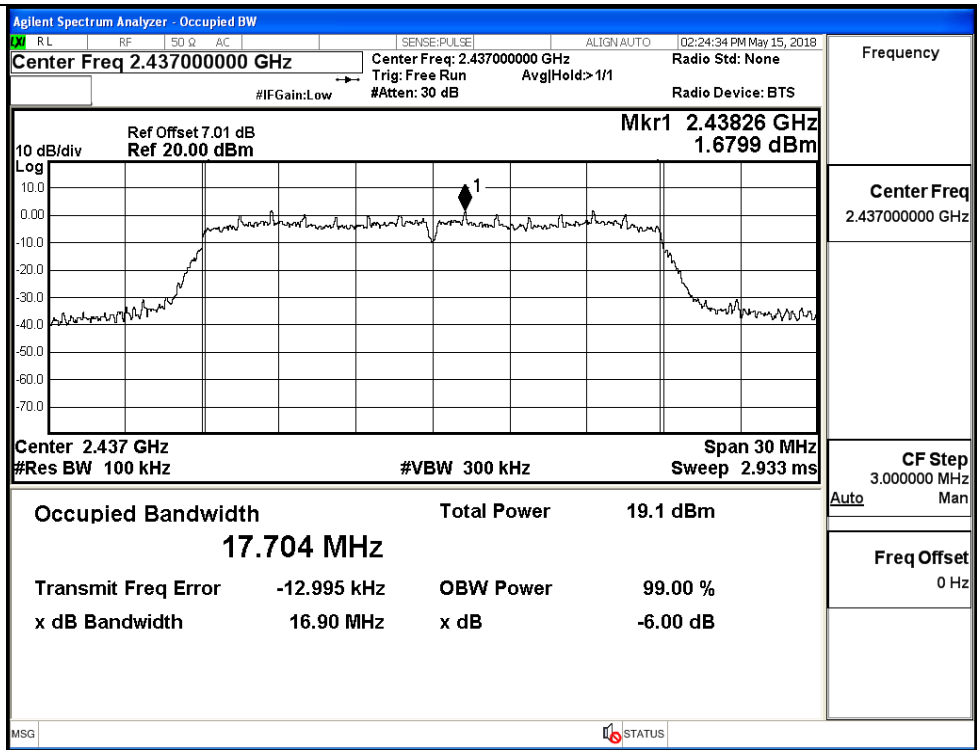
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH



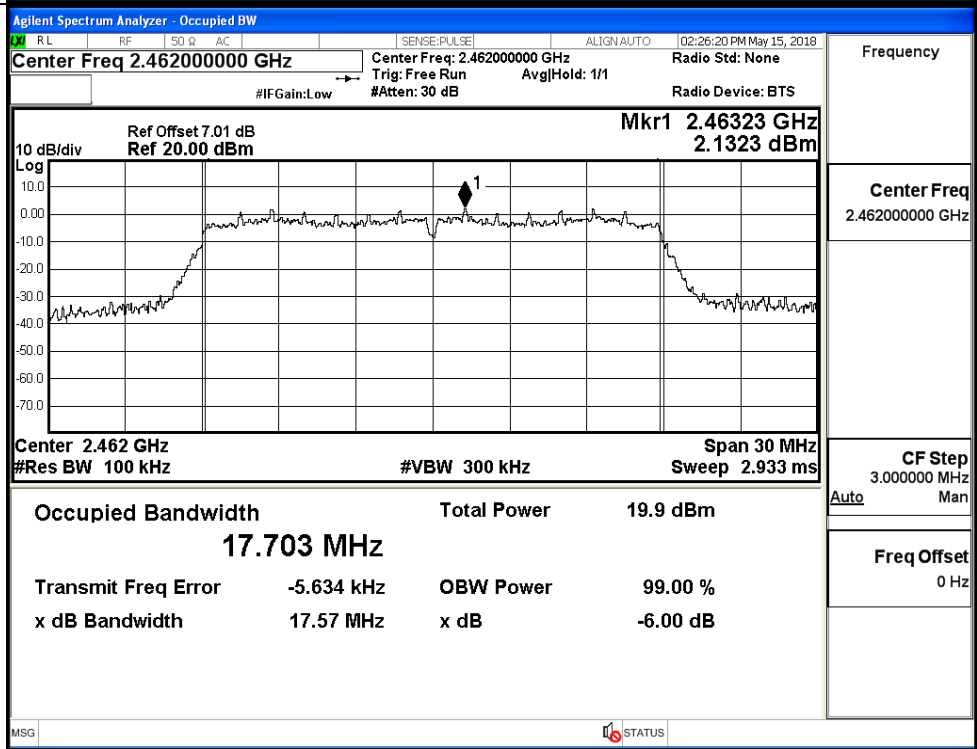
Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/MCH



Frequency	
Center Freq	2.43700000 GHz
CF Step	3.000000 MHz
	Auto Man
Freq Offset	0 Hz

11N20SISO/HCH



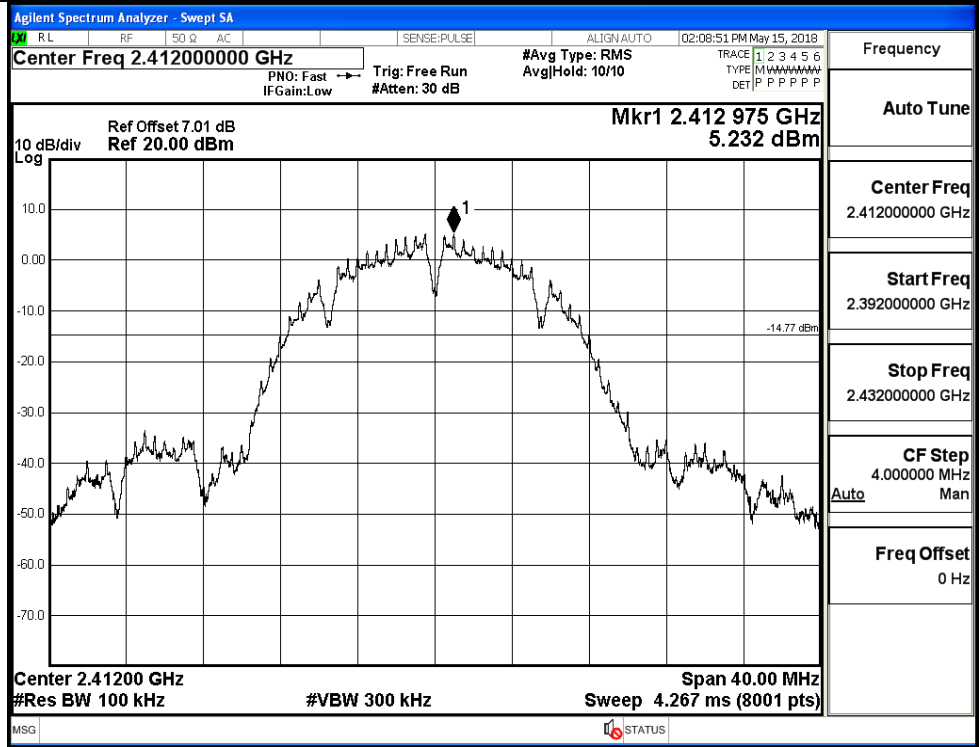
Frequency	
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
	Auto Man
Freq Offset	0 Hz

**C.4 RF Conducted Spurious Emissions**

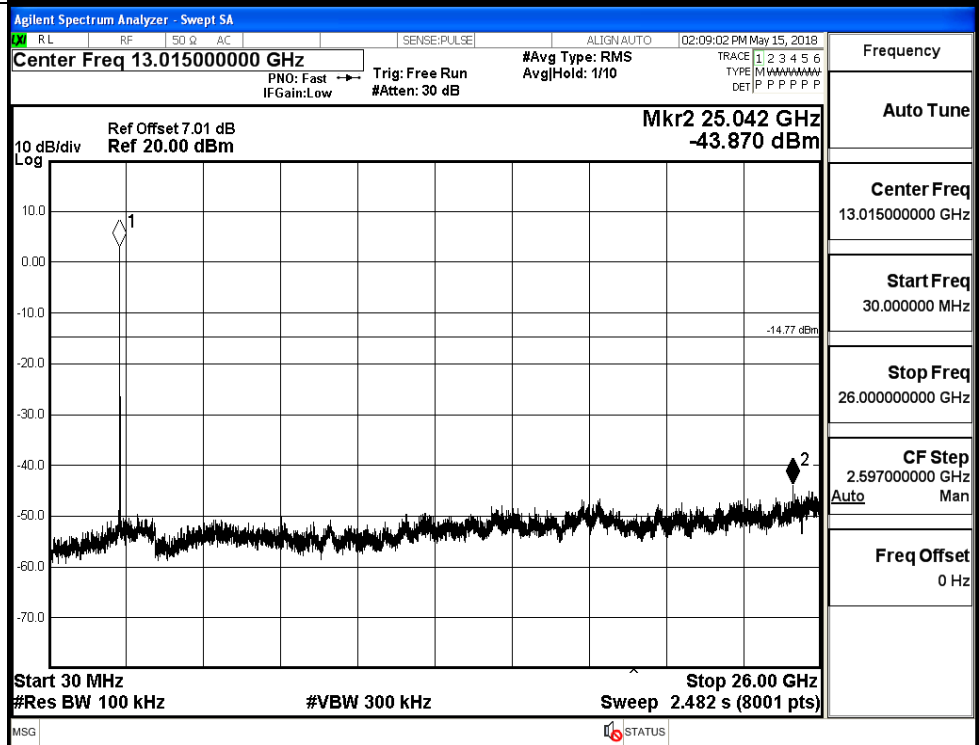
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.232	-43.870	-14.768	PASS
	MCH	5.636	-45.056	-14.364	PASS
	HCH	6.861	-44.488	-13.139	PASS
11G	LCH	2.193	-44.587	-17.807	PASS
	MCH	2.37	-44.997	-17.630	PASS
	HCH	2.919	-45.027	-17.081	PASS
11N20 SISO	LCH	1.132	-45.008	-18.868	PASS
	MCH	1.214	-45.343	-18.786	PASS
	HCH	2.107	-43.641	-17.893	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

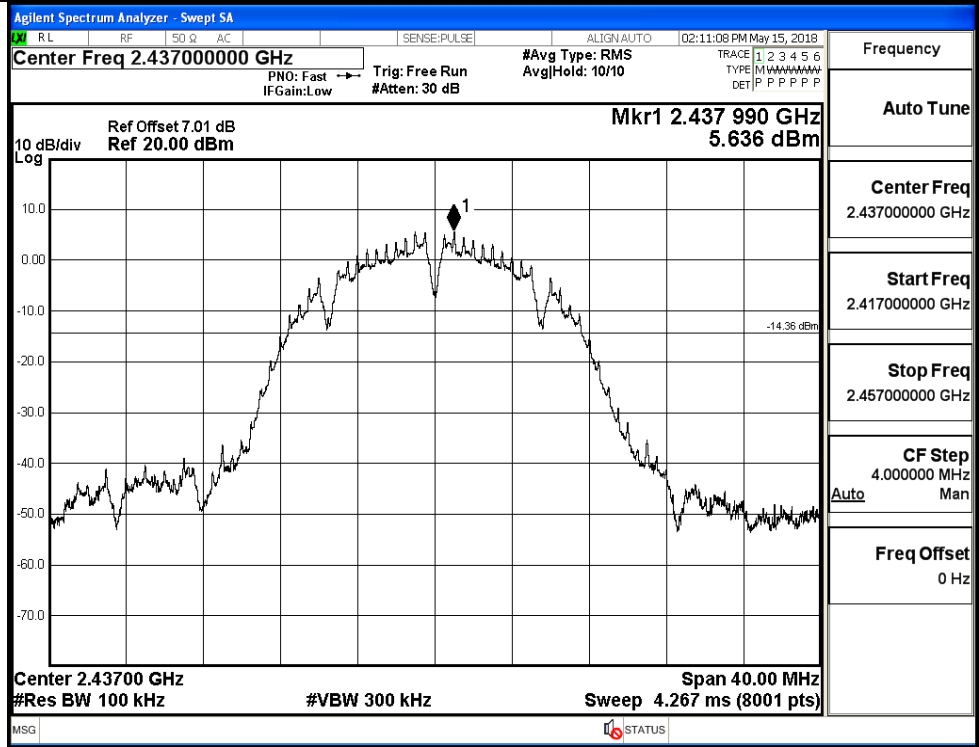


Puw/11B/LCH

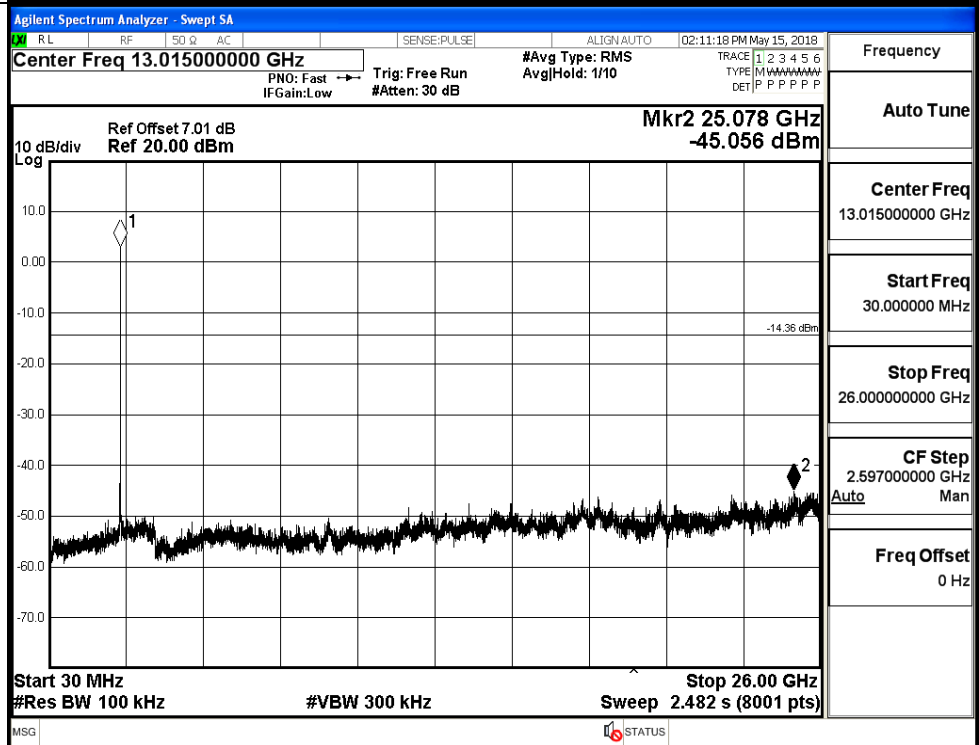


11B\_MCH\_Graphs

Pref/11B/MCH



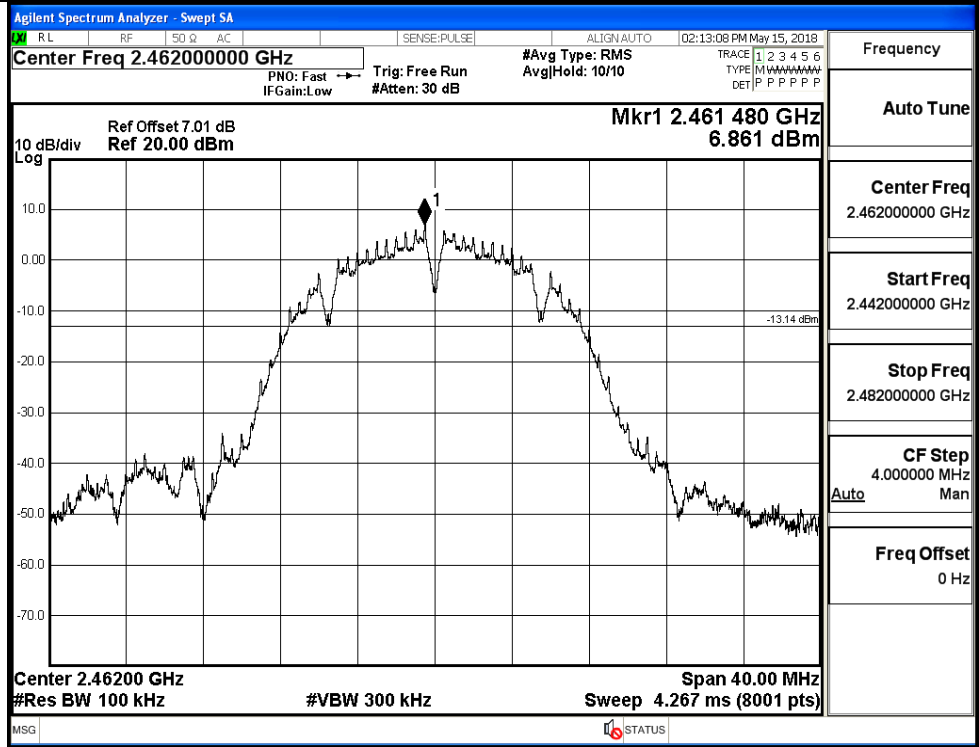
Puw/11B/MCH



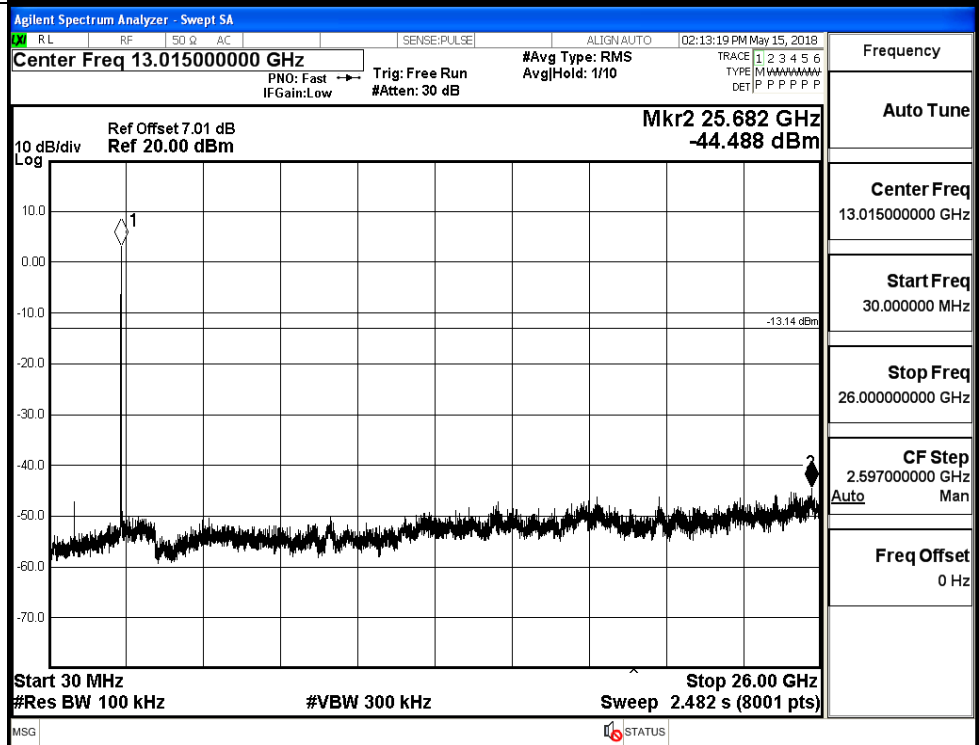


11B\_HCH\_Graphs

Pref/11B/HCH

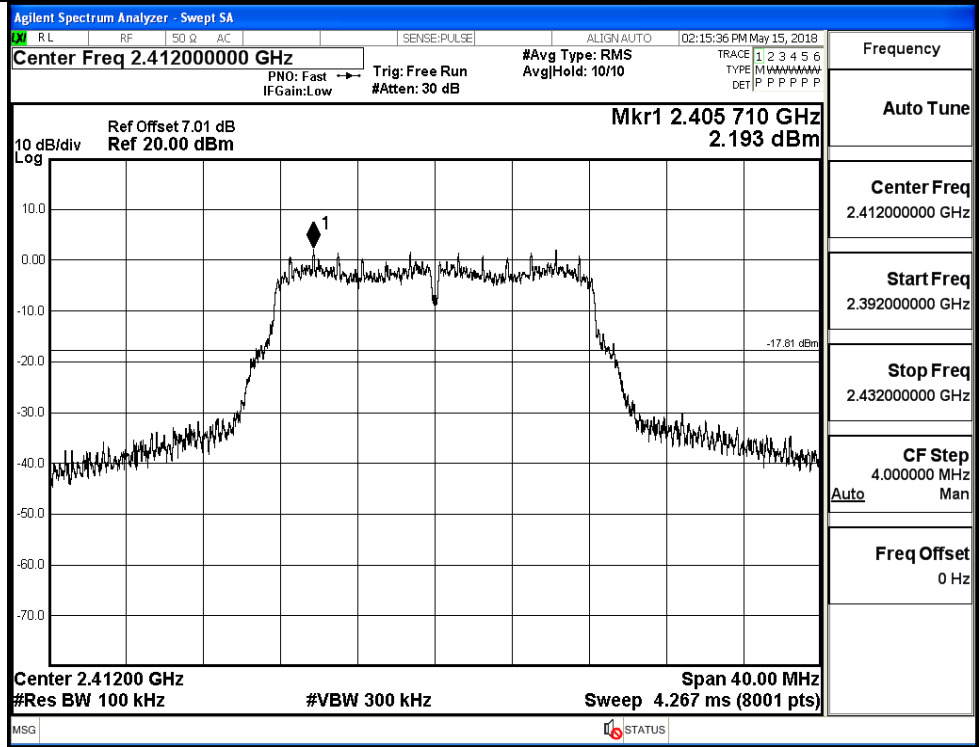


Puw/11B/HCH

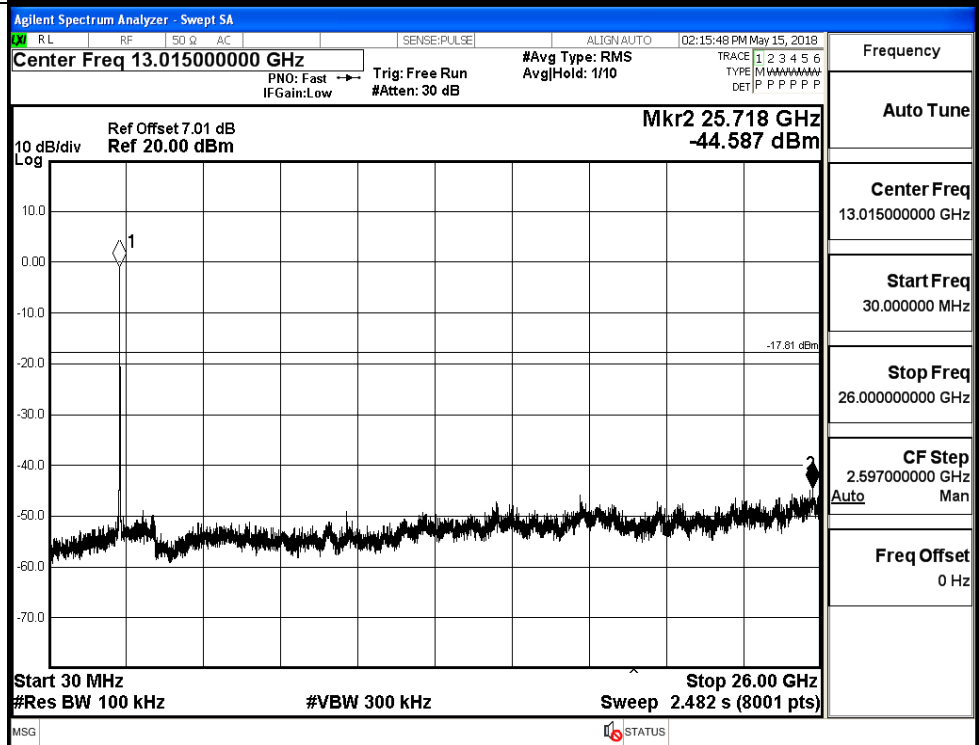


11G\_LCH\_Graphs

Pref/11G/LCH

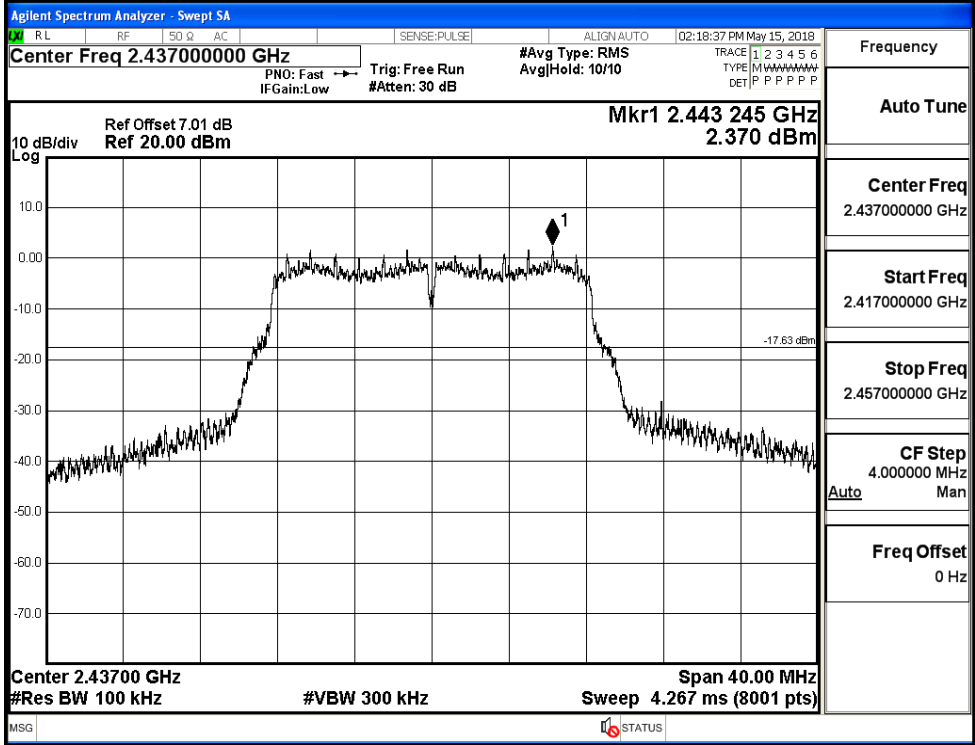


Puw/11G/LCH

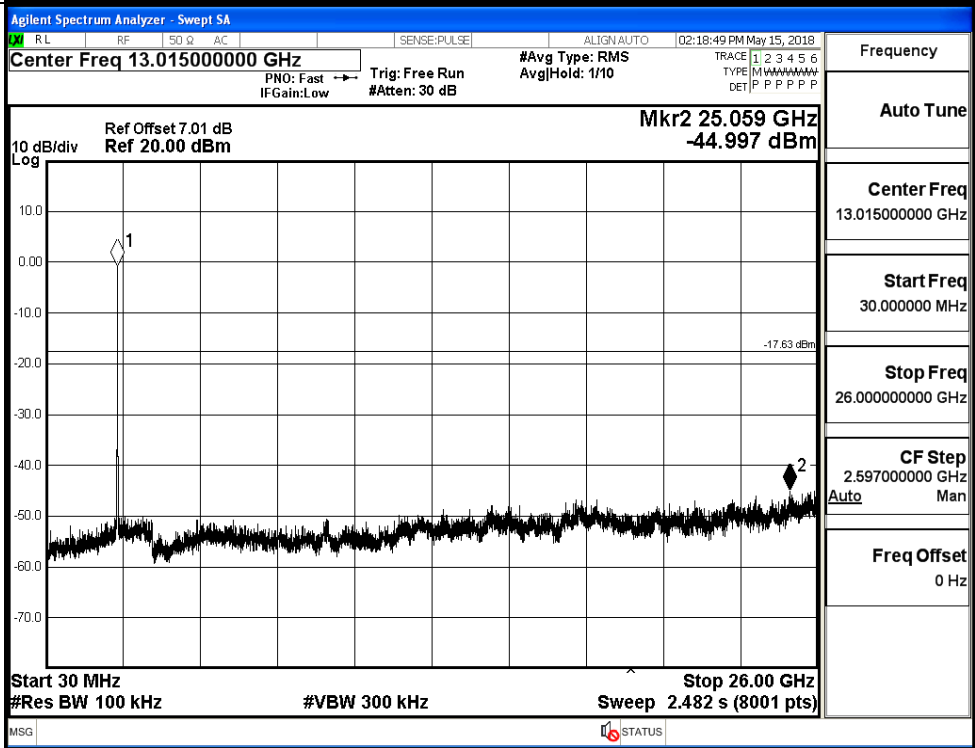


11G\_MCH\_Graphs

Pref/11G/MCH

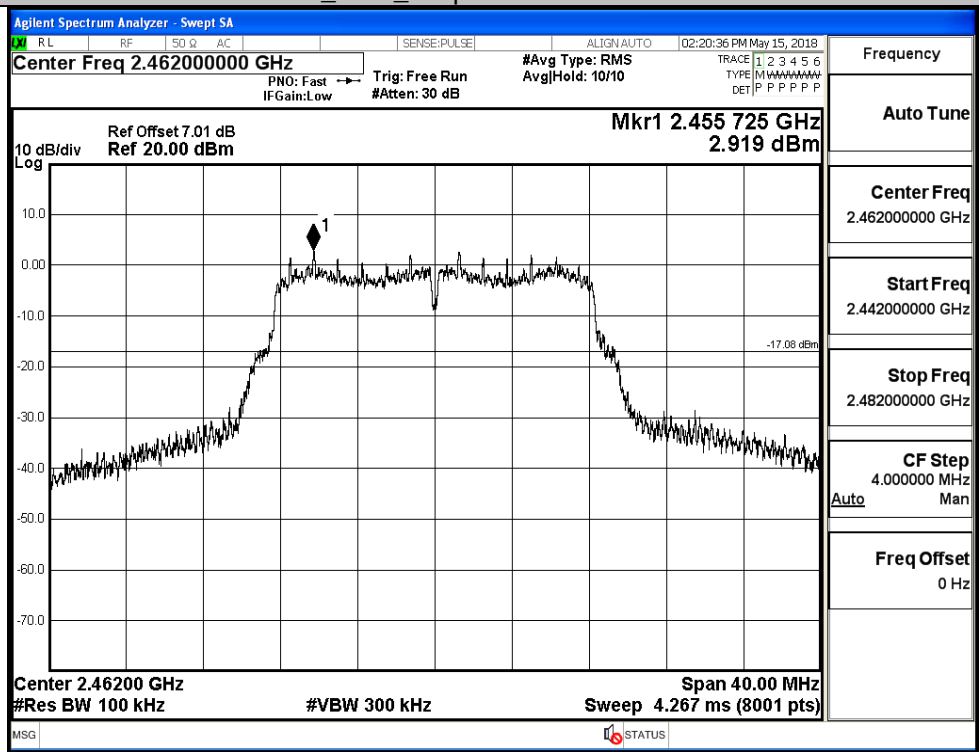


Puw/11G/MCH

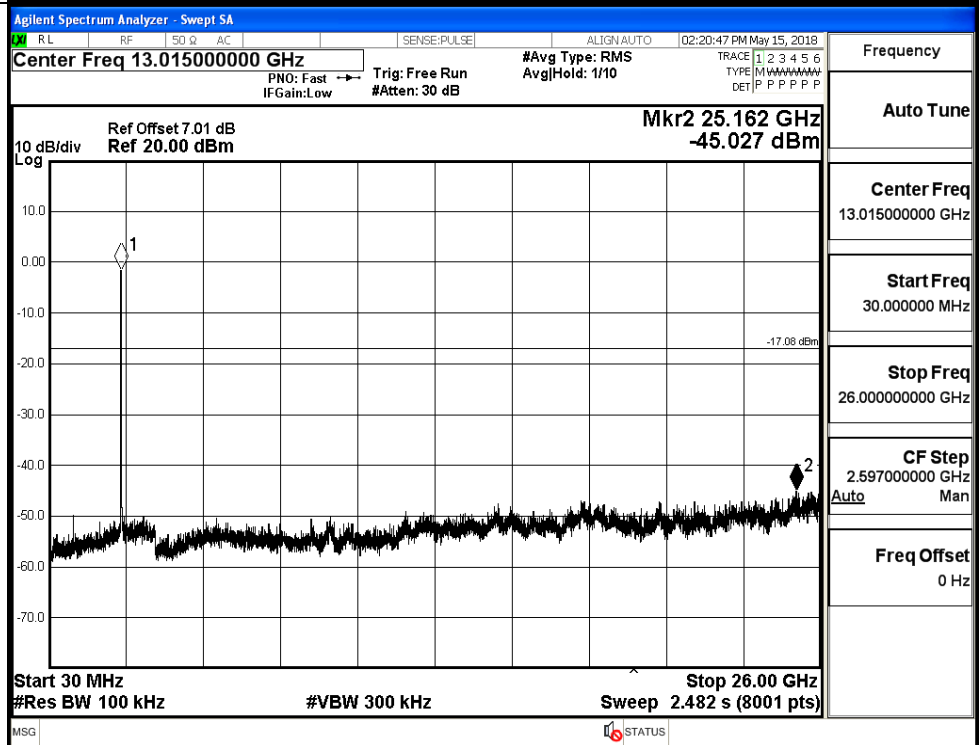


11G\_HCH\_Graphs

Pref/11G/HCH

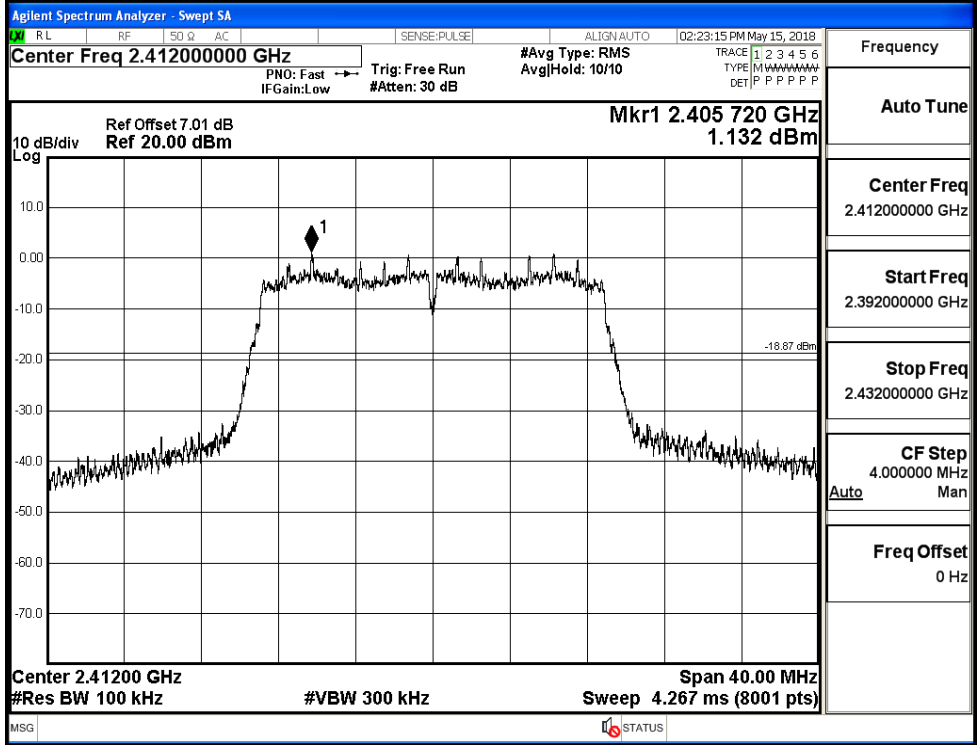


Puw/11G/HCH

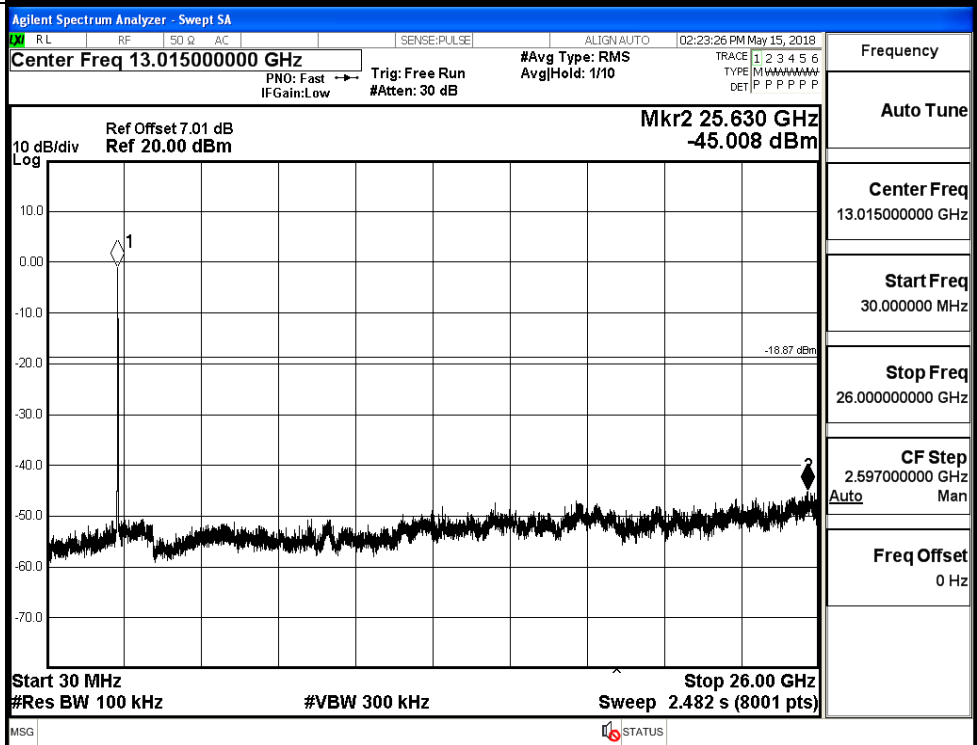


11N20SISO\_LCH\_Graphs

Pref/11N20SIS  
O/LCH

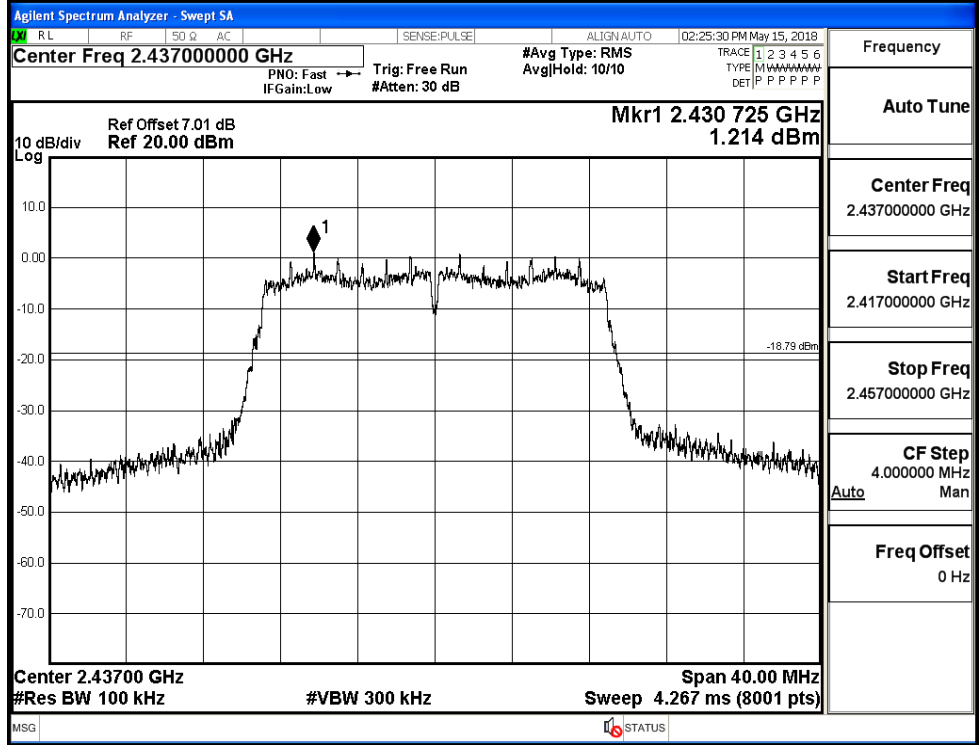


Puw/11N20  
SISO/LCH

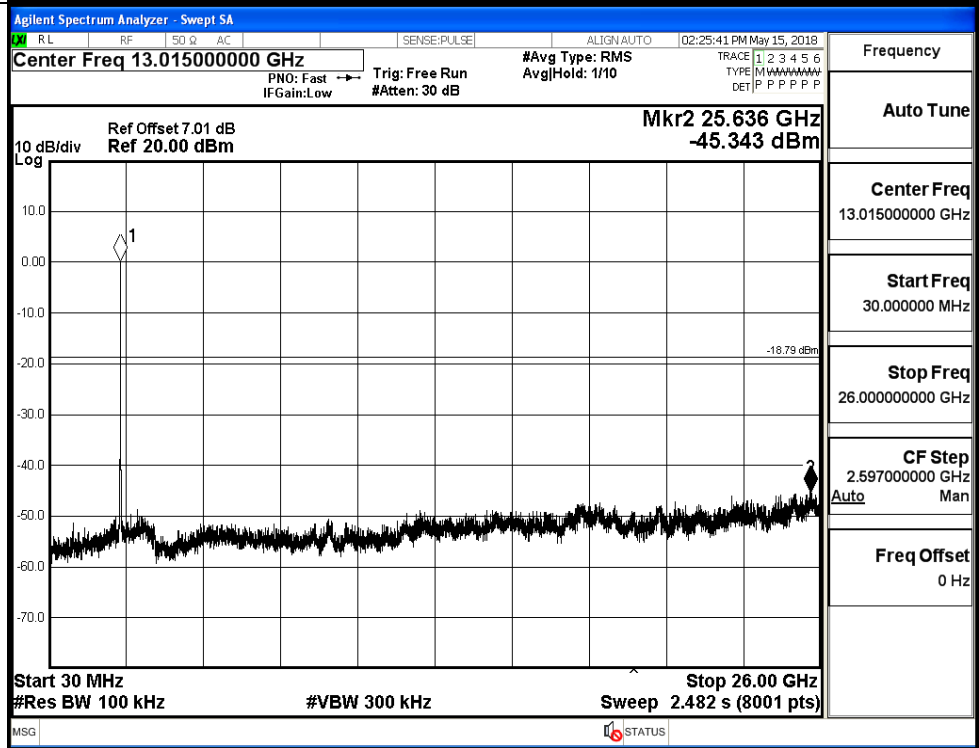


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

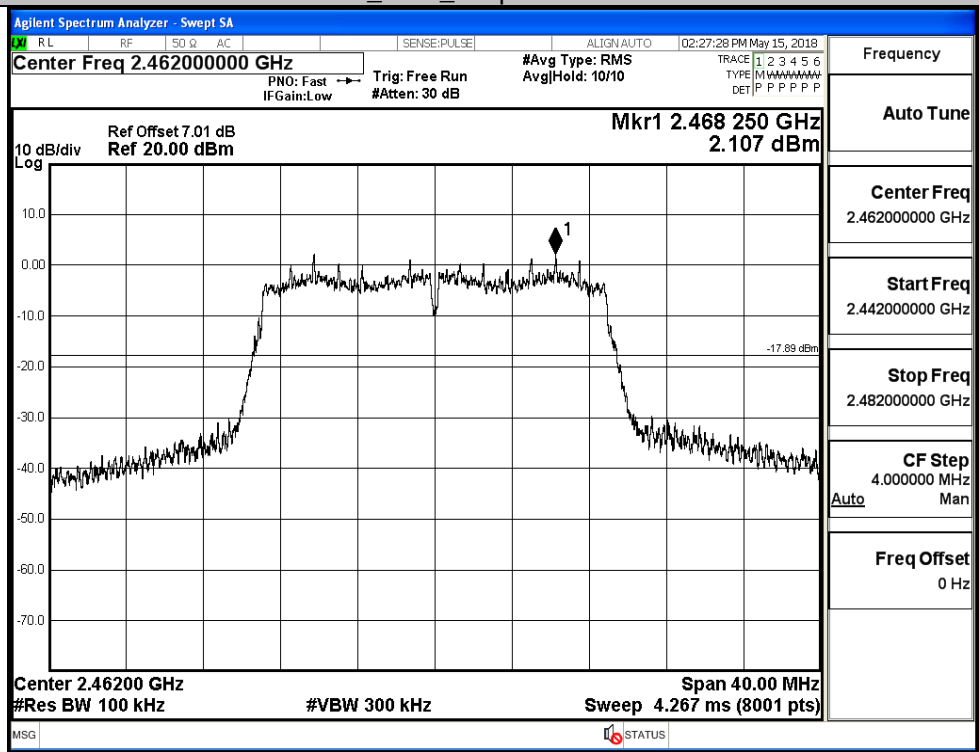


Puw/11N20  
SISO/MCH

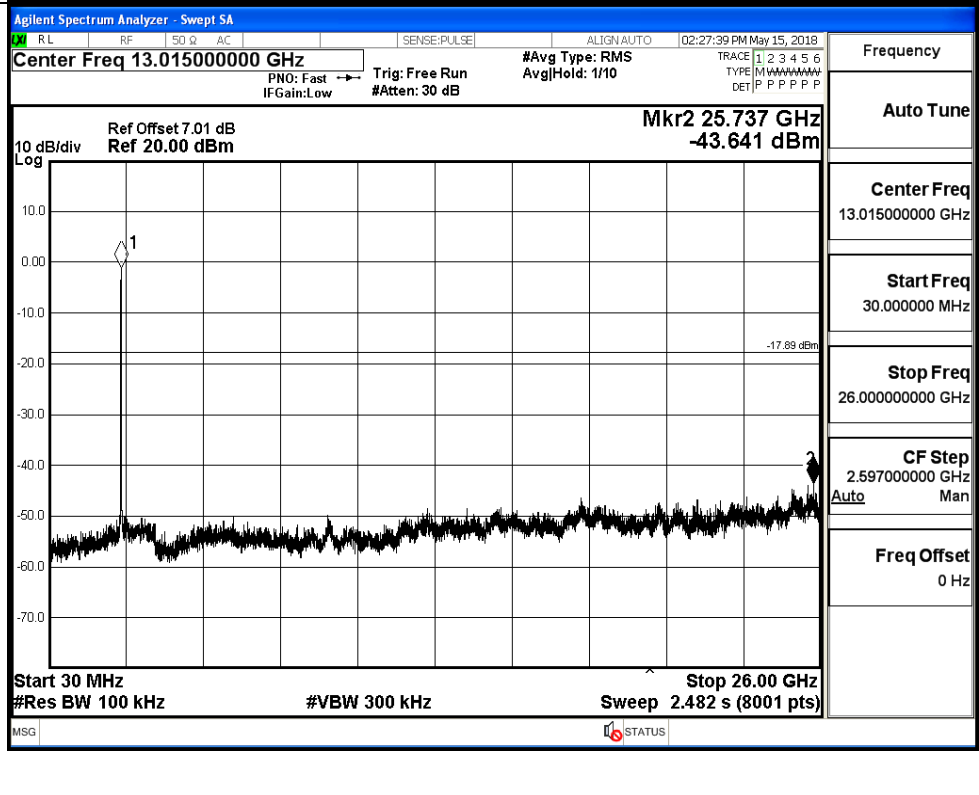


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

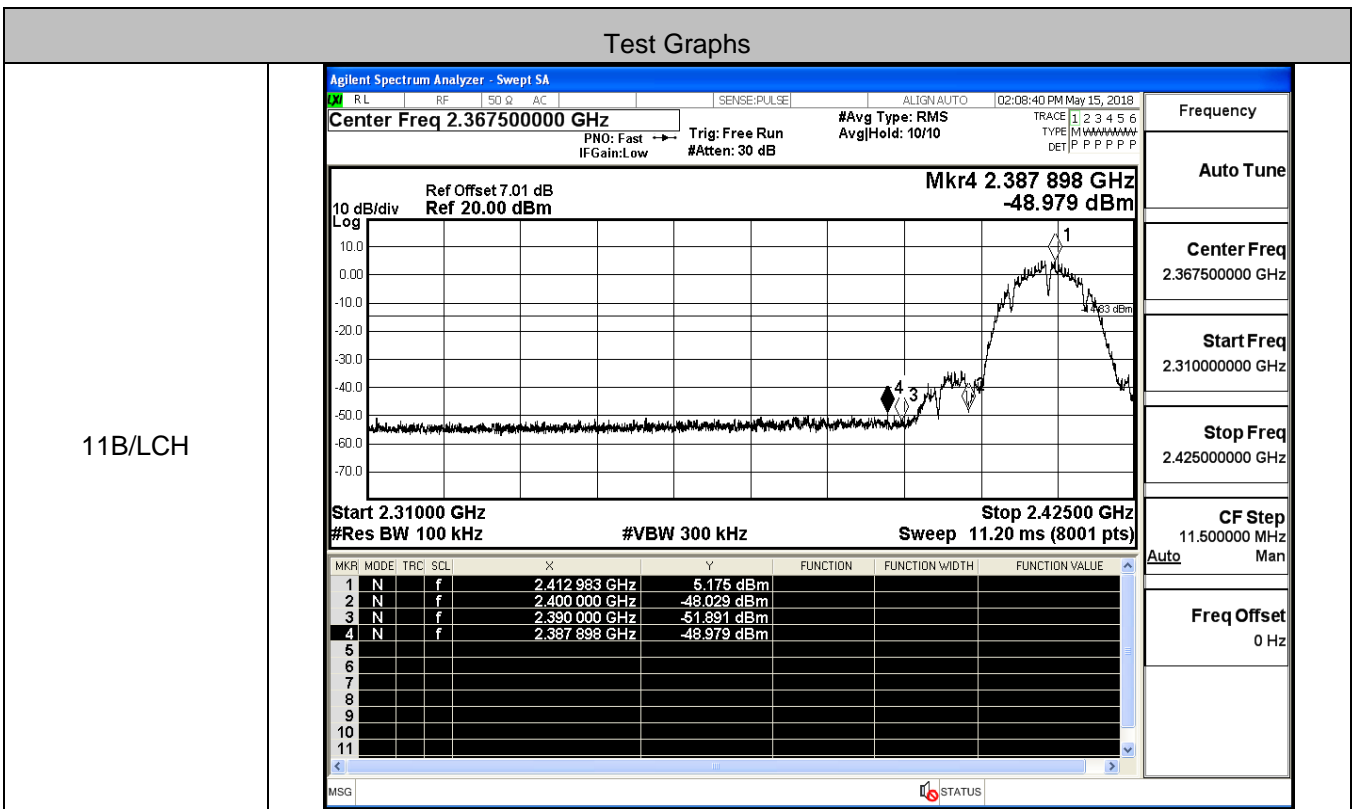


Puw/11N20  
SISO/HCH



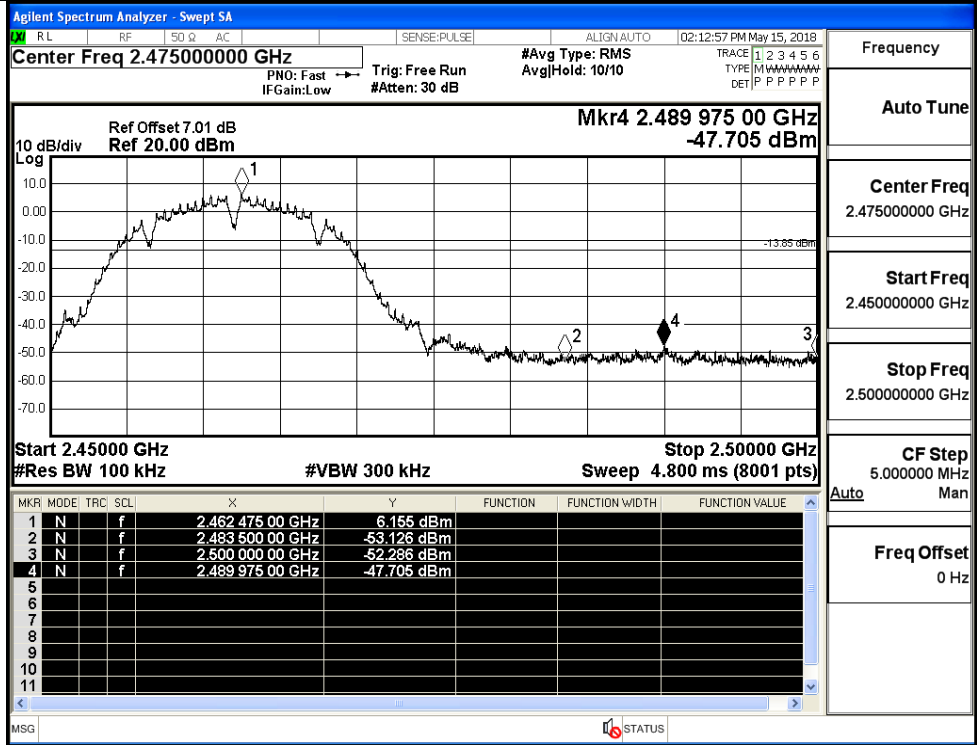
### C.5 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.175	-48.979	-14.83	PASS
	HCH	6.155	-47.705	-13.85	PASS
11G	LCH	2.701	-43.591	-17.3	PASS
	HCH	3.054	-39.266	-16.95	PASS
11N20SISO	LCH	1.444	-42.231	-18.56	PASS
	HCH	1.870	-39.185	-18.13	PASS





11B/HCH



Frequency

Auto Tune

Center Freq  
2.47500000 GHz

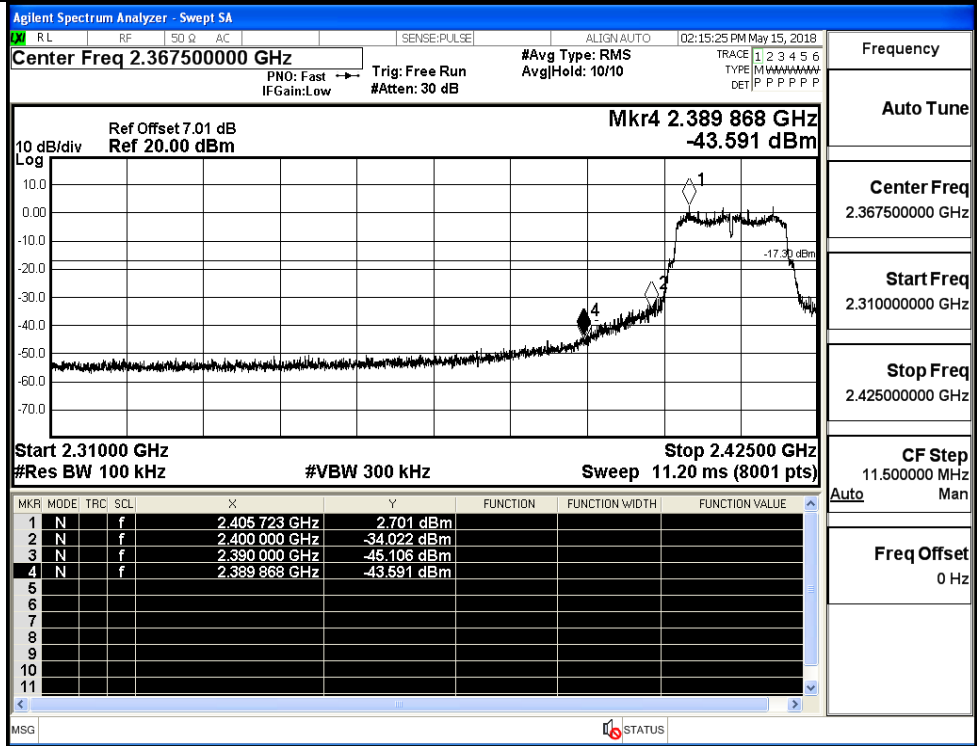
Start Freq  
2.45000000 GHz

Stop Freq  
2.50000000 GHz

CF Step  
5.000000 MHz

Freq Offset  
0 Hz

11G/LCH



Frequency

Auto Tune

Center Freq  
2.36750000 GHz

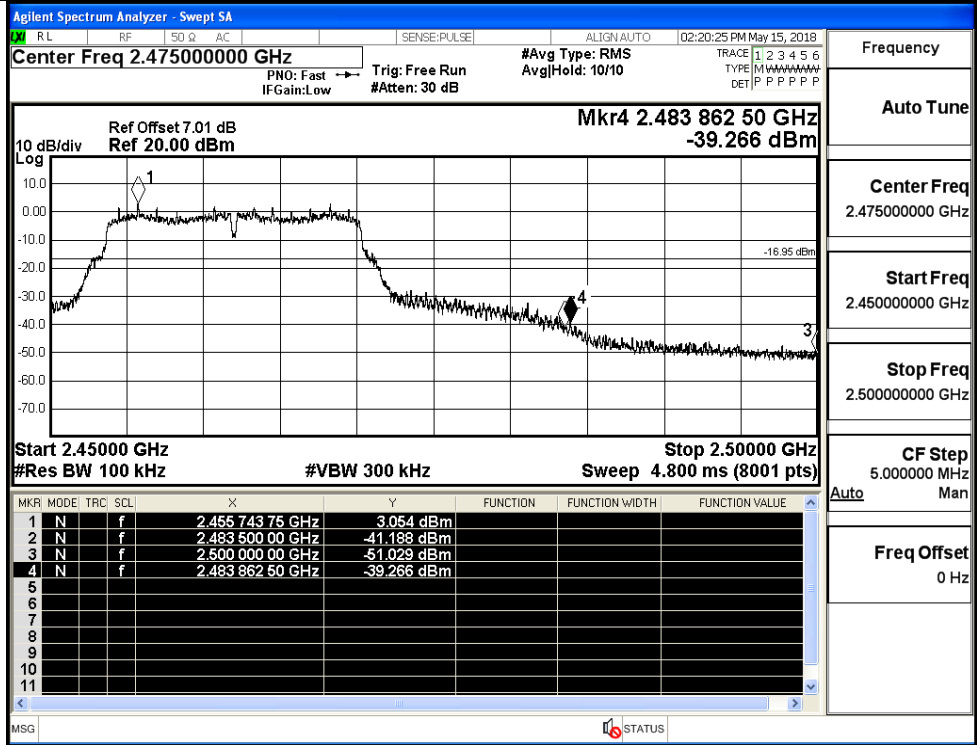
Start Freq  
2.31000000 GHz

Stop Freq  
2.42500000 GHz

CF Step  
11.500000 MHz

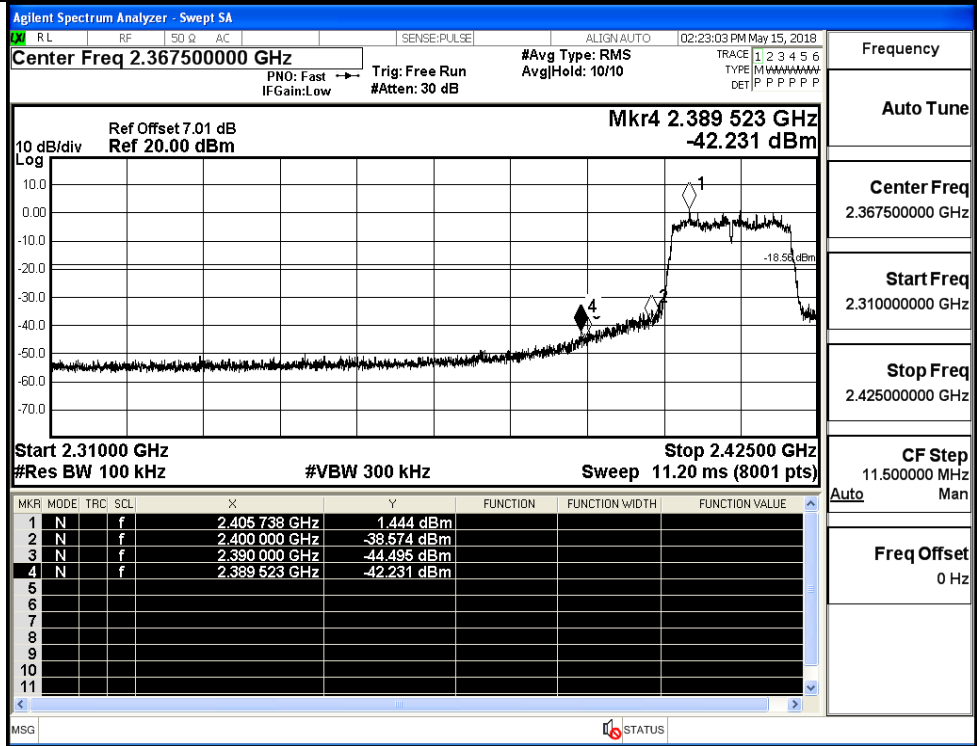
Freq Offset  
0 Hz

11G/HCH



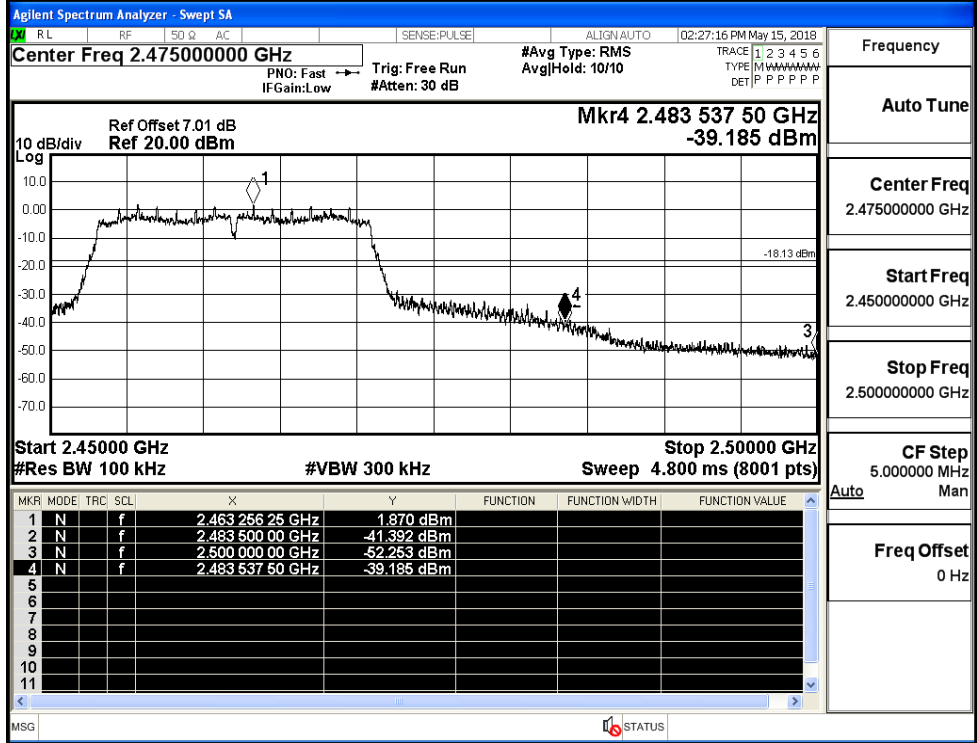
Frequency	2.47500000 GHz
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N20SISO/LCH



Frequency	2.36750000 GHz
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

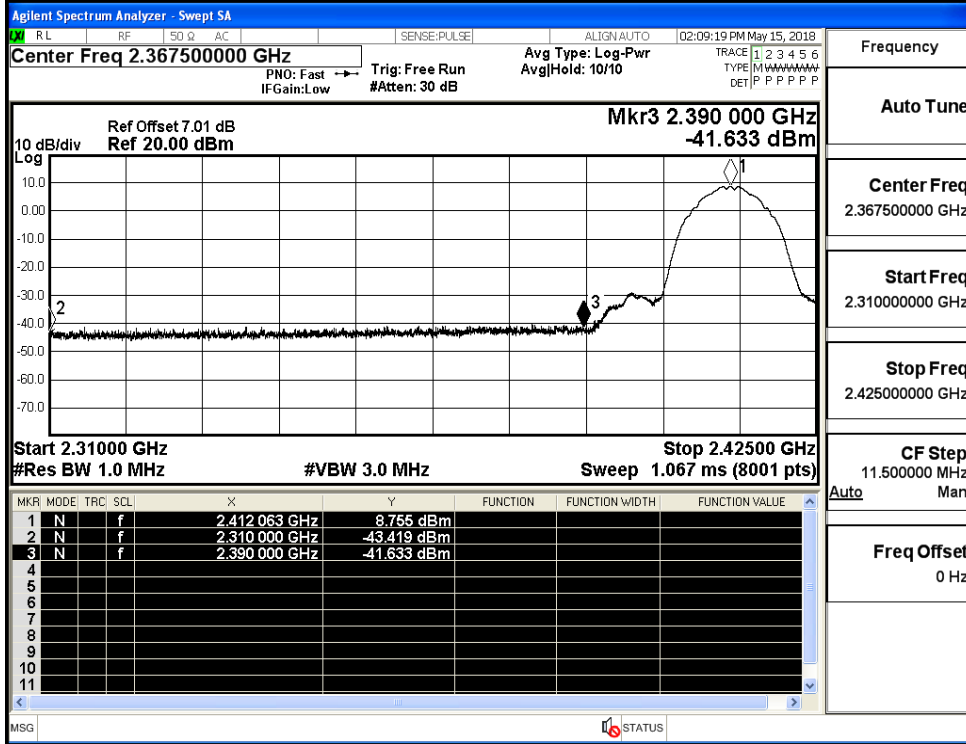
11N20SISO/HCH



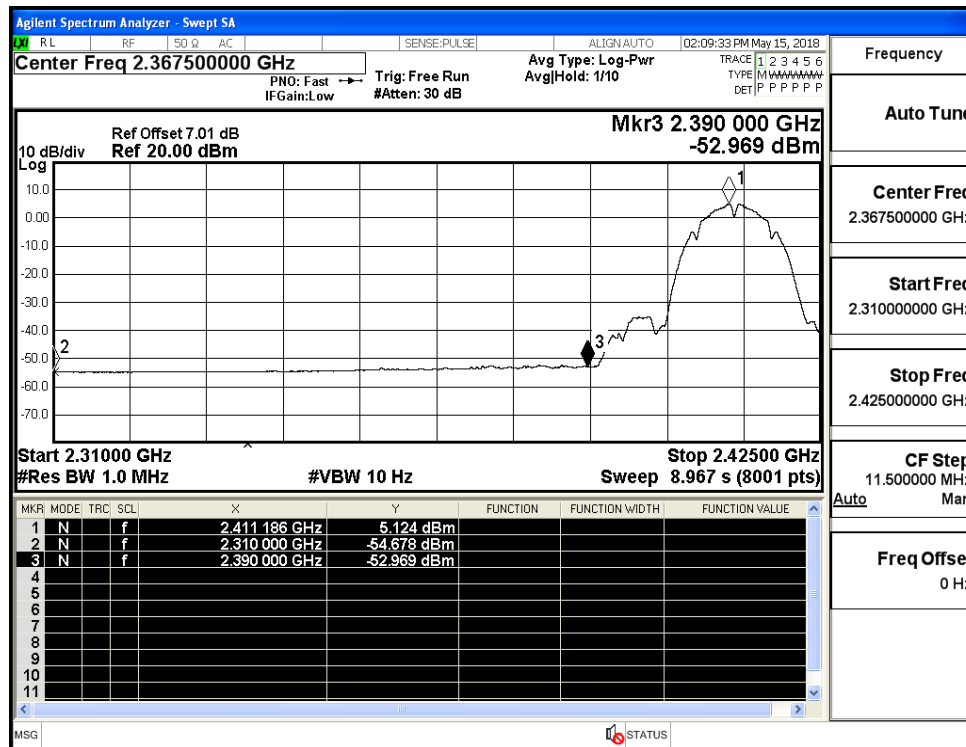
## C.6 Restrict-band band-edge measurements

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	-43.42	2.0	0	53.84	PEAK	74	PASS
	2412	Ant1	2310.0	-54.68	2.0	0	42.58	AV	54	PASS
	2412	Ant1	2390.0	-41.63	2.0	0	55.62	PEAK	74	PASS
	2412	Ant1	2390.0	-52.97	2.0	0	44.29	AV	54	PASS
	2462	Ant1	2483.5	-42.69	2.0	0	54.57	PEAK	74	PASS
	2462	Ant1	2483.5	-52.58	2.0	0	44.68	AV	54	PASS
	2462	Ant1	2500.0	-42.92	2.0	0	54.34	PEAK	74	PASS
	2462	Ant1	2500.0	-52.70	2.0	0	44.55	AV	54	PASS
11G	2412	Ant1	2310.0	-44.67	2.0	0	52.59	PEAK	74	PASS
	2412	Ant1	2310.0	-54.72	2.0	0	42.54	AV	54	PASS
	2412	Ant1	2390.0	-32.23	2.0	0	65.03	PEAK	74	PASS
	2412	Ant1	2390.0	-46.22	2.0	0	51.04	AV	54	PASS
	2462	Ant1	2483.5	-25.57	2.0	0	71.69	PEAK	74	PASS
	2462	Ant1	2483.5	-43.44	2.0	0	53.82	AV	54	PASS
	2462	Ant1	2500.0	-38.35	2.0	0	58.91	PEAK	74	PASS
	2462	Ant1	2500.0	-51.57	2.0	0	45.69	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-44.17	2.0	0	53.09	PEAK	74	PASS
	2412	Ant1	2310.0	-54.80	2.0	0	42.46	AV	54	PASS
	2412	Ant1	2390.0	-34.34	2.0	0	62.91	PEAK	74	PASS
	2412	Ant1	2390.0	-46.37	2.0	0	50.89	AV	54	PASS
	2462	Ant1	2483.5	-30.27	2.0	0	66.99	PEAK	74	PASS
	2462	Ant1	2483.5	-44.04	2.0	0	53.22	AV	54	PASS
	2462	Ant1	2500.0	-40.82	2.0	0	56.44	PEAK	74	PASS
	2462	Ant1	2500.0	-52.21	2.0	0	45.05	AV	54	PASS

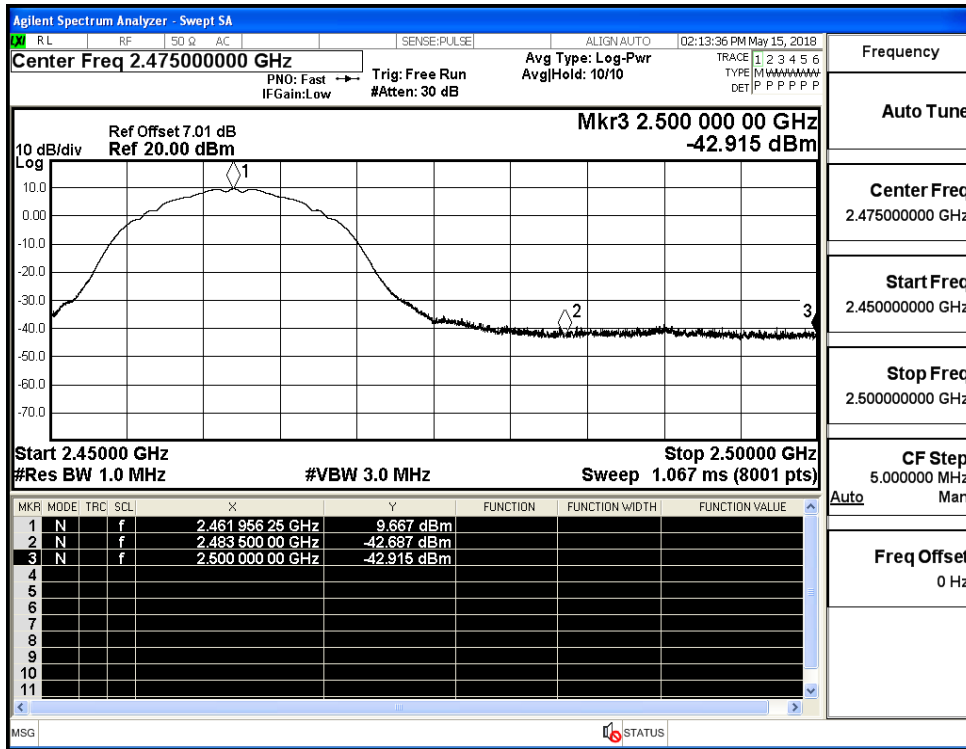
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



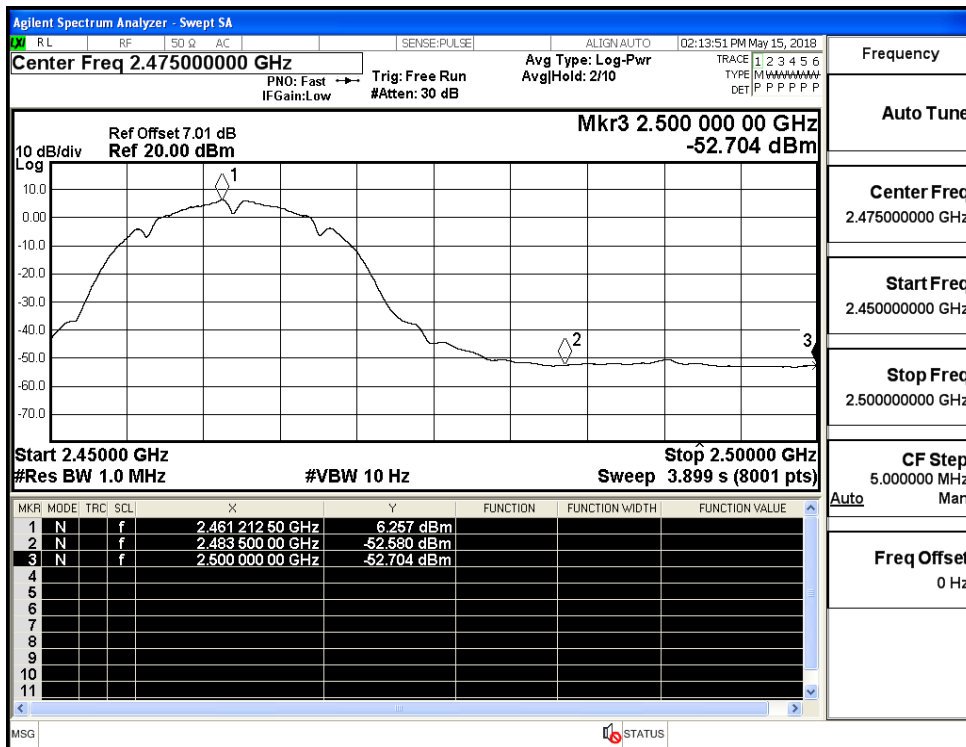
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



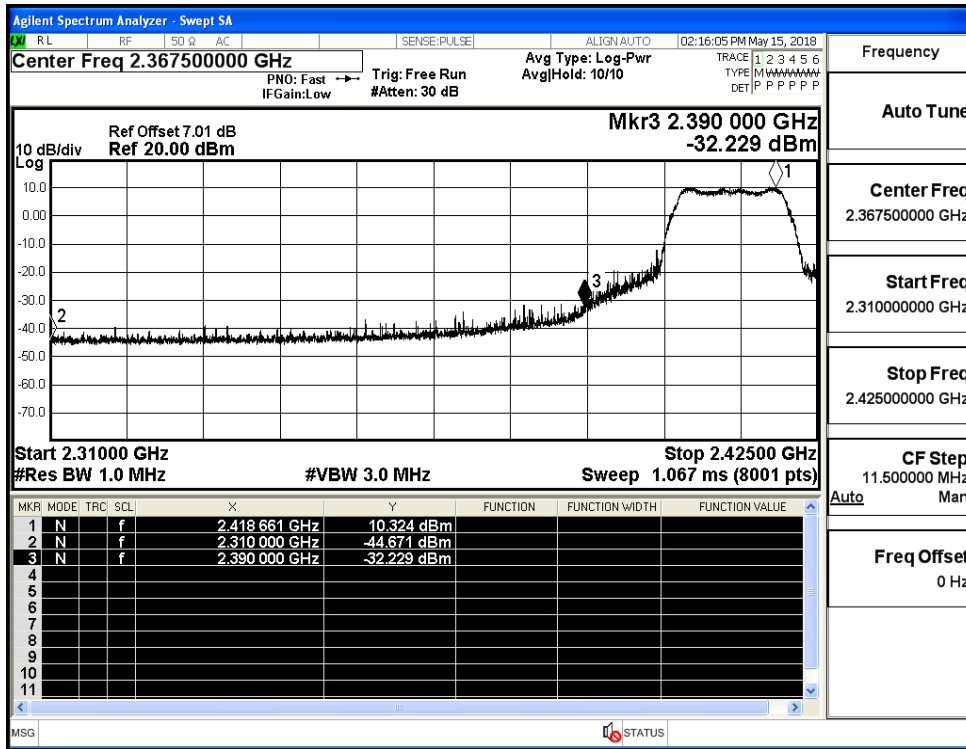
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_PEAK



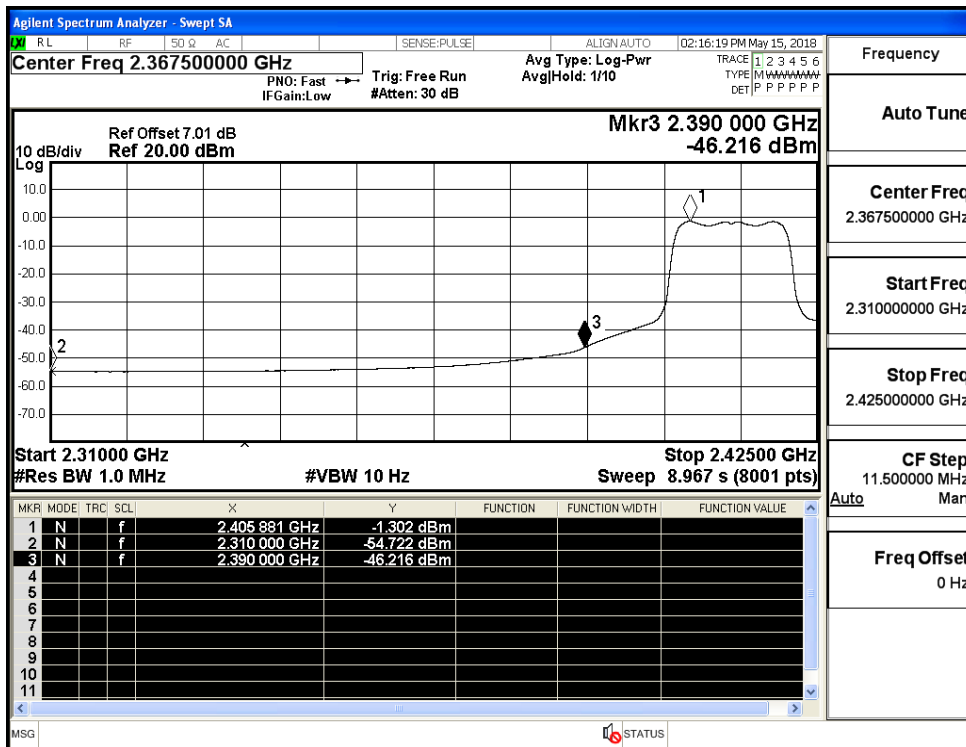
Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV



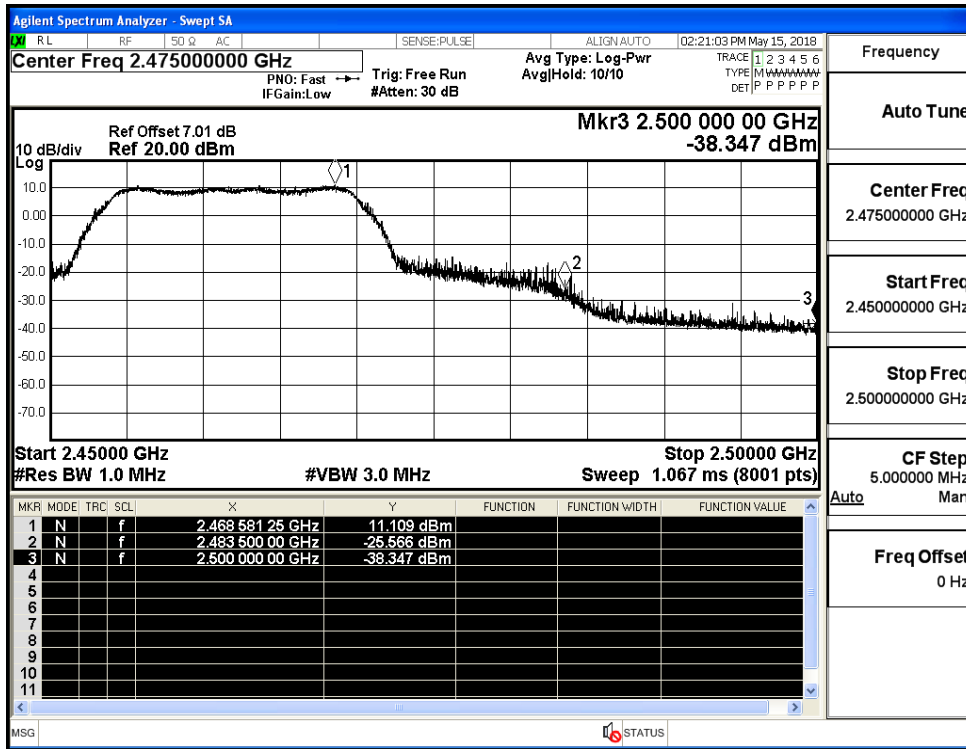
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



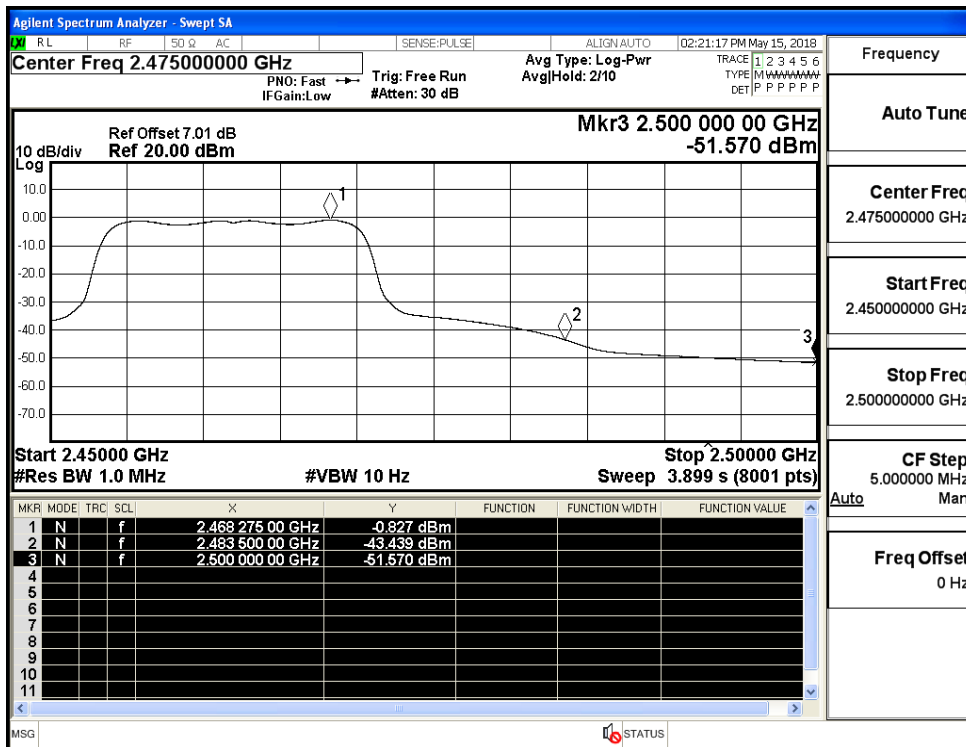
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK

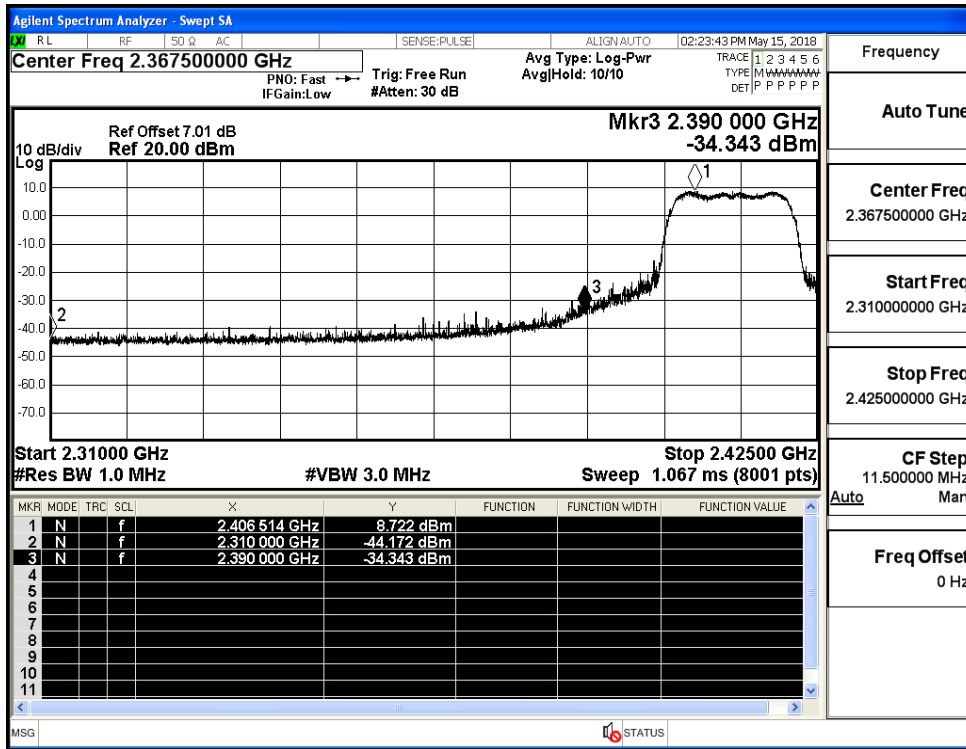


Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV

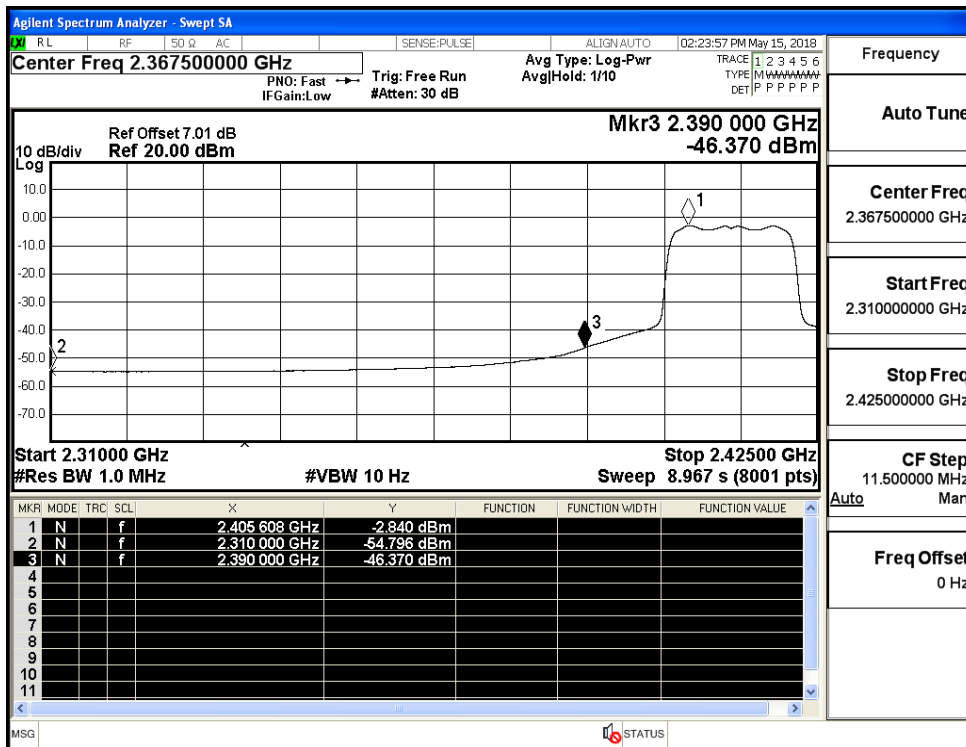




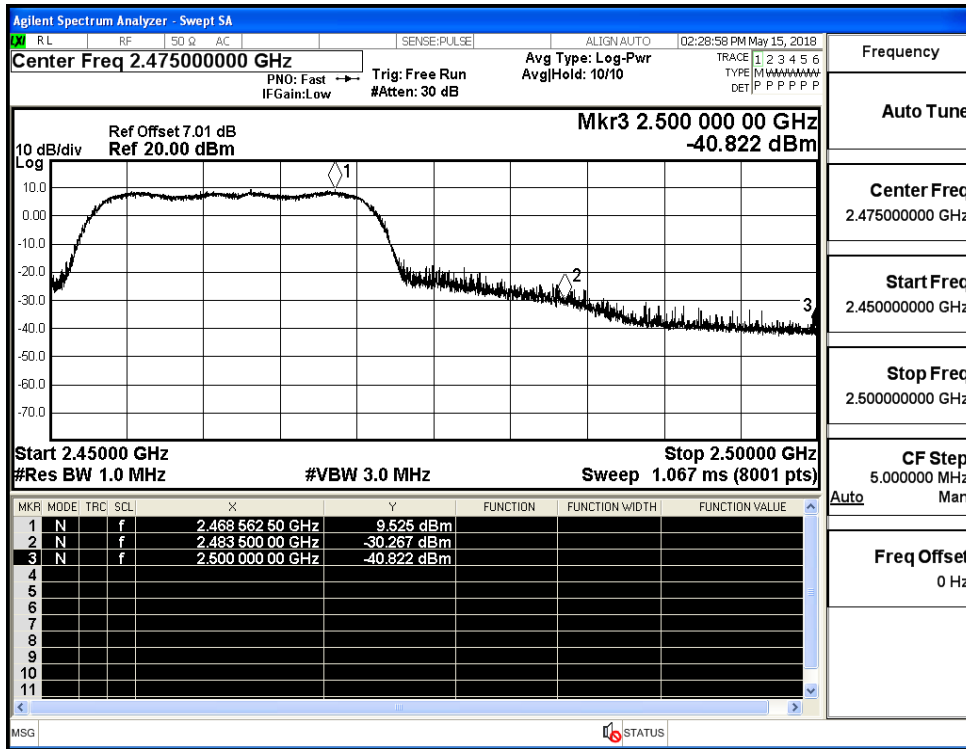
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV

