

## Appendix C

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

Product Name: Tablet PC

Trade Mark: **HYUNDAI**

Test Model: 10LC1

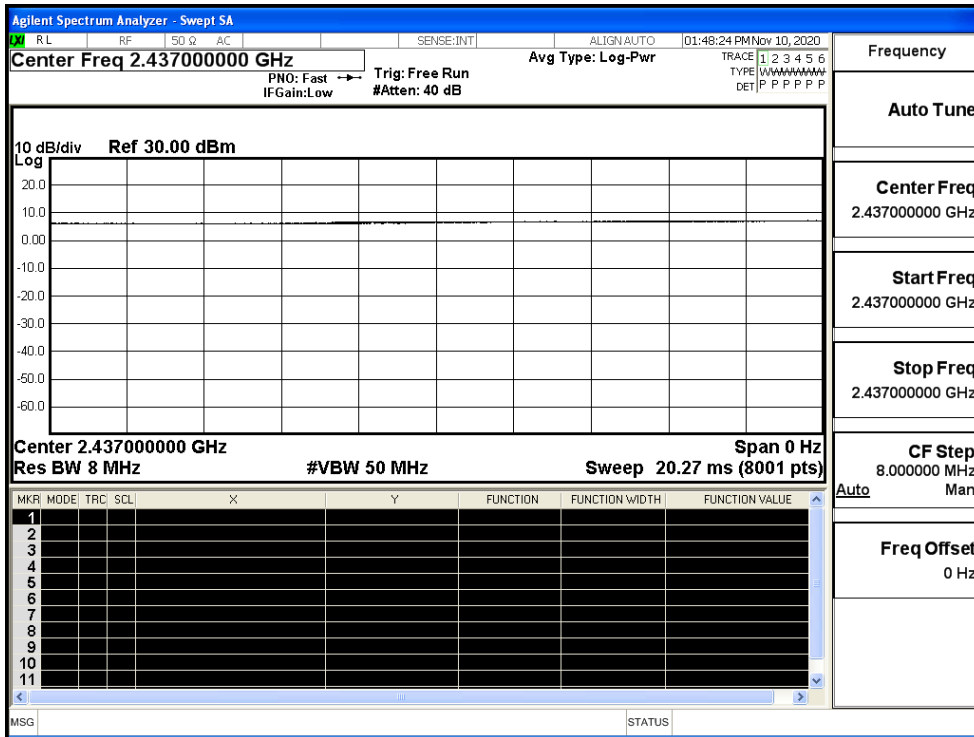
#### Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Tom Liu

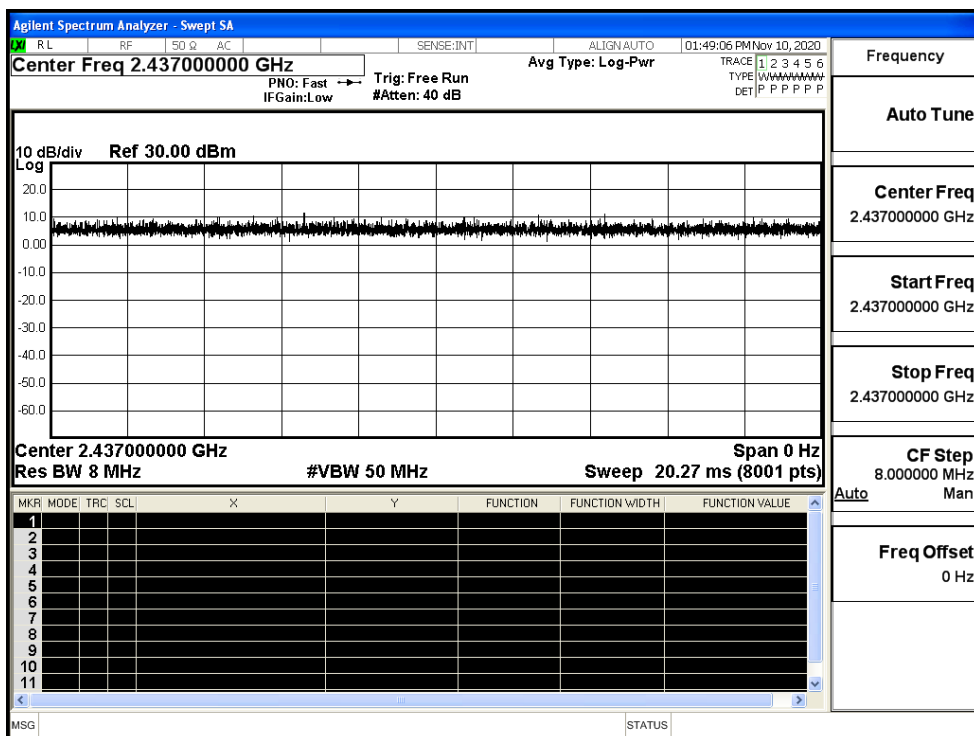
#### C.1 Duty Cycle

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

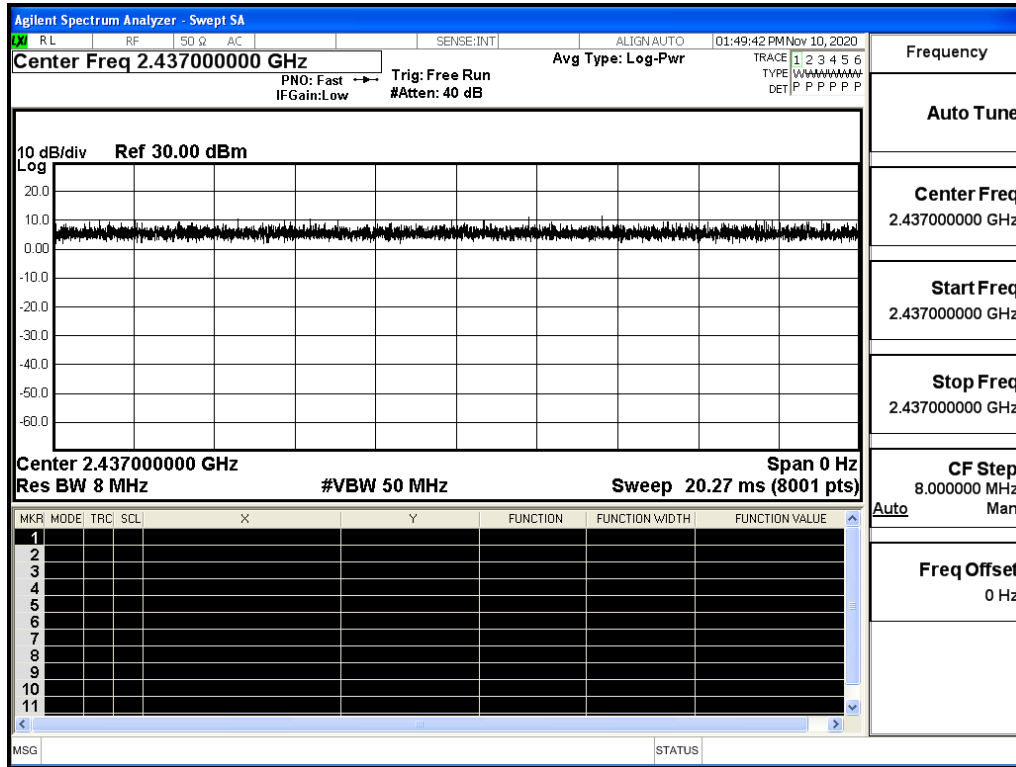
Duty Cycle\_11B\_2437\_Ant1



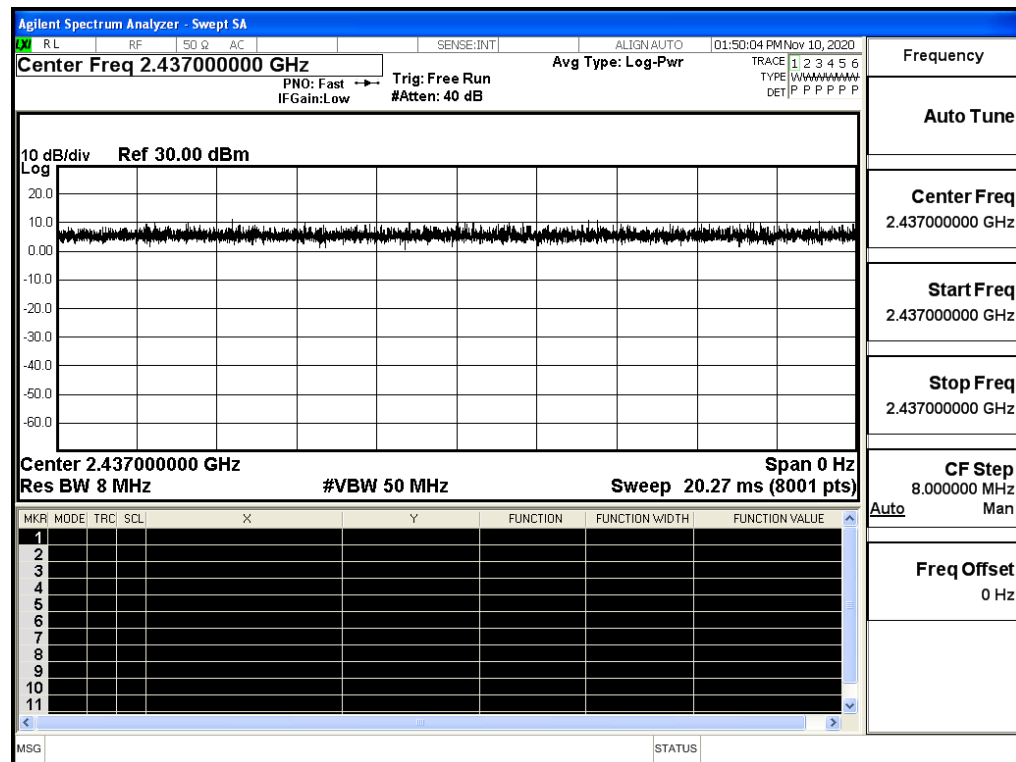
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1

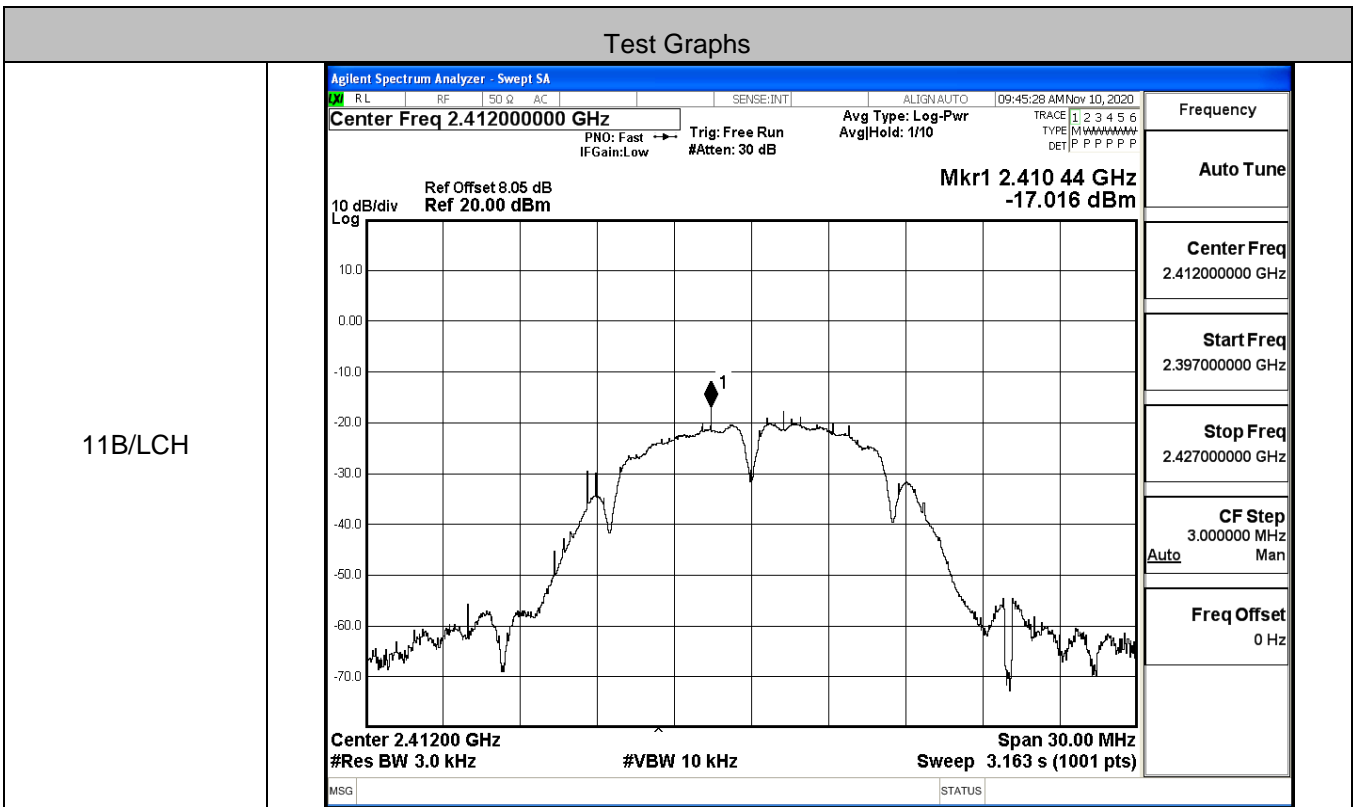


**C.2 Maximum Conducted Output Power**

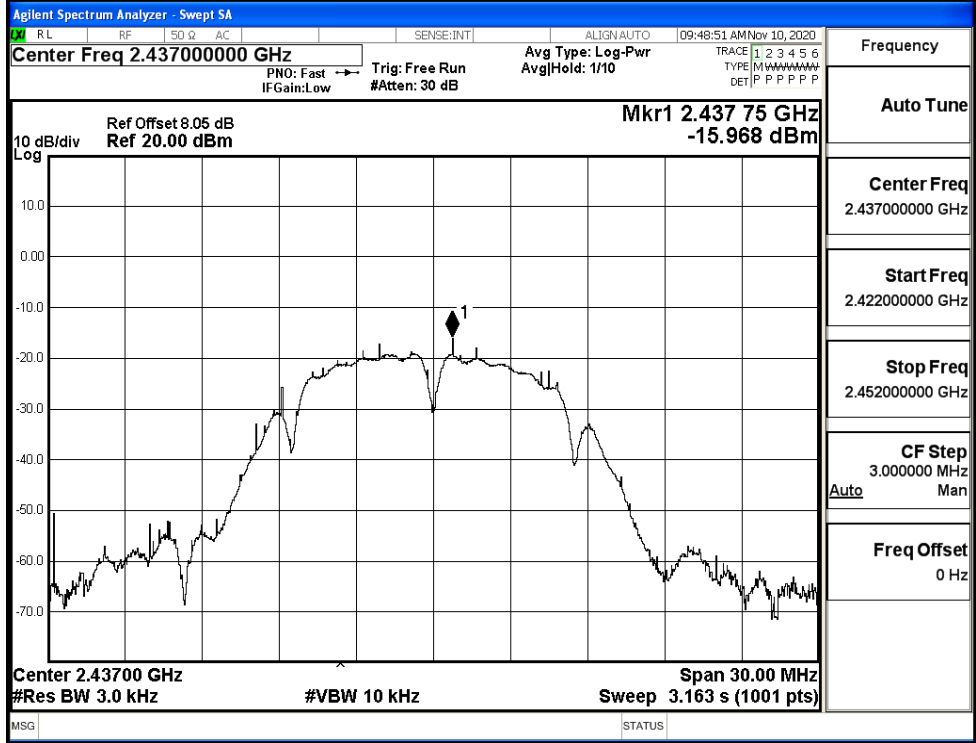
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	12.15	30	PASS
	MCH	13.34	30	PASS
	HCH	13.4	30	PASS
11G	LCH	11.51	30	PASS
	MCH	13.01	30	PASS
	HCH	14.74	30	PASS
11N20SISO	LCH	10.17	30	PASS
	MCH	12.57	30	PASS
	HCH	14.14	30	PASS
11N40SISO	LCH	14.07	30	PASS
	MCH	13.3	30	PASS
	HCH	13.86	30	PASS

### C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-17.016	8	PASS
	MCH	-15.968	8	PASS
	HCH	-1.562	8	PASS
11G	LCH	-24.004	8	PASS
	MCH	-22.619	8	PASS
	HCH	-21.039	8	PASS
11N20SISO	LCH	-23.651	8	PASS
	MCH	-22.903	8	PASS
	HCH	-21.577	8	PASS
11N40SISO	LCH	-20.970	8	PASS
	MCH	-21.643	8	PASS
	HCH	-18.823	8	PASS

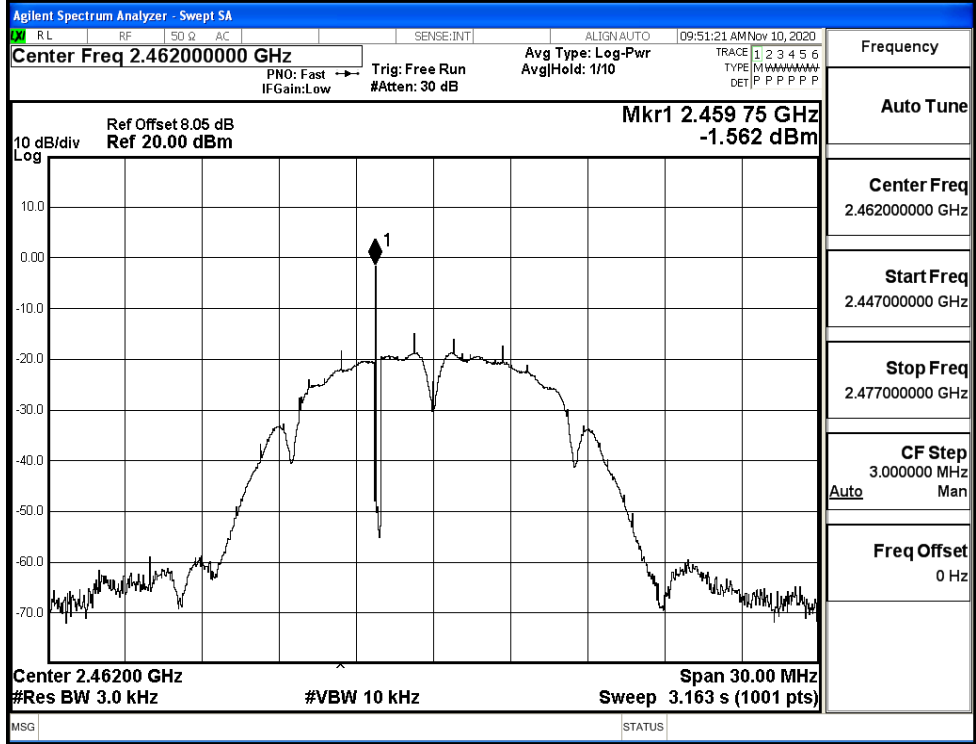


11B/MCH



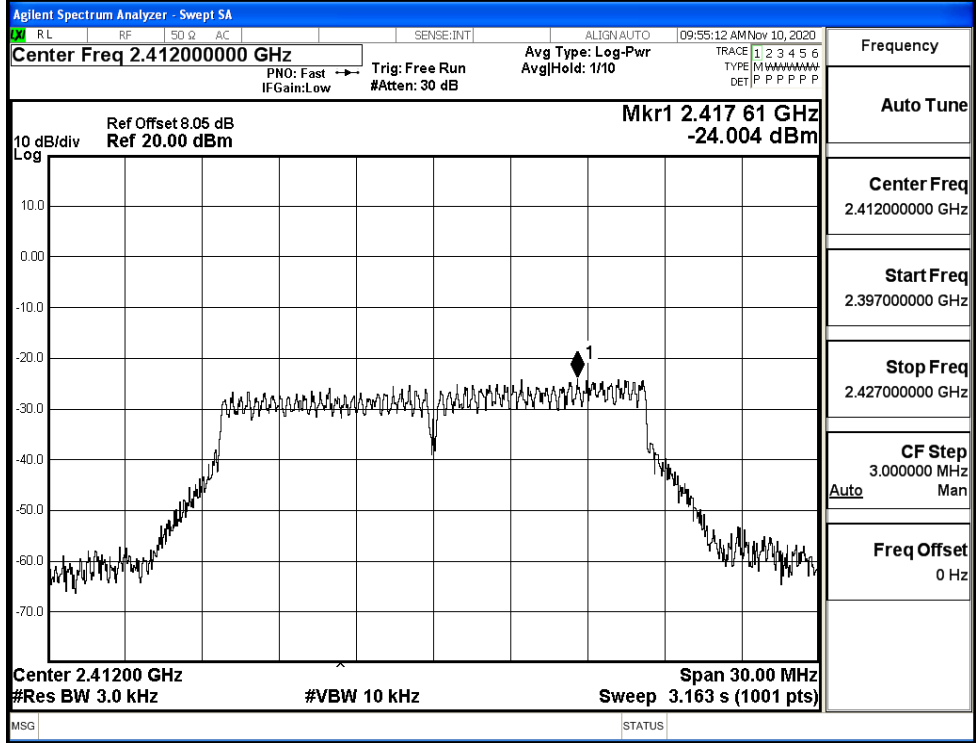
Frequency	2.43700000 GHz
Auto Tune	
Center Freq	2.43700000 GHz
Start Freq	2.42200000 GHz
Stop Freq	2.45200000 GHz
CF Step	3.000000 MHz
	Auto Man
Freq Offset	0 Hz

11B/HCH

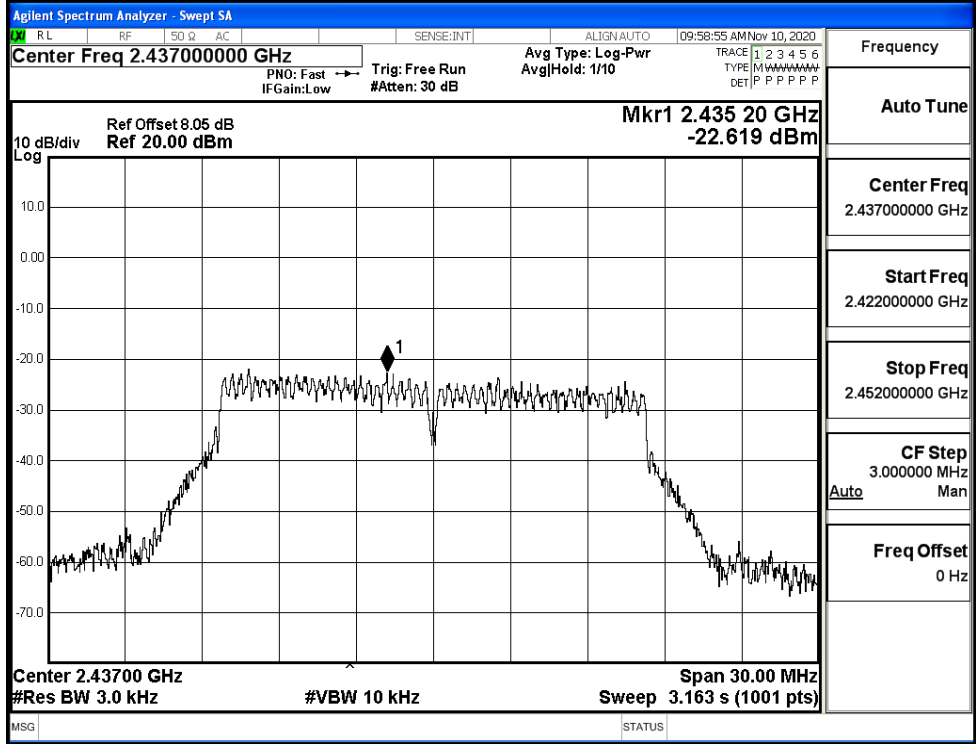


Frequency	2.46200000 GHz
Auto Tune	
Center Freq	2.46200000 GHz
Start Freq	2.44700000 GHz
Stop Freq	2.47700000 GHz
CF Step	3.000000 MHz
	Auto Man
Freq Offset	0 Hz

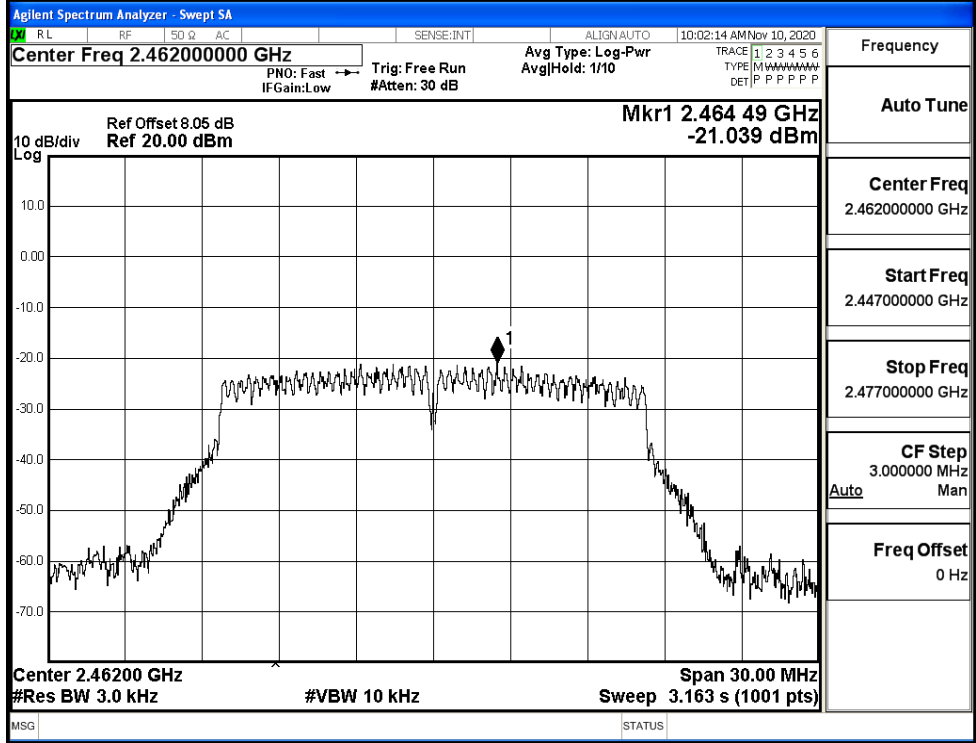
11G/LCH



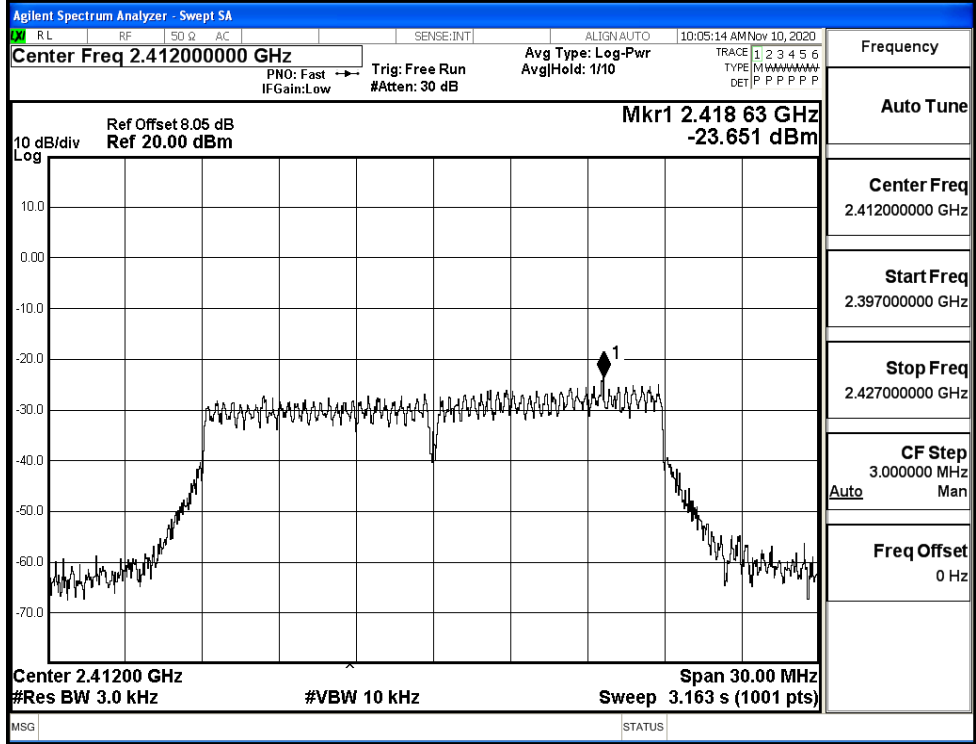
11G/MCH



11G/HCH

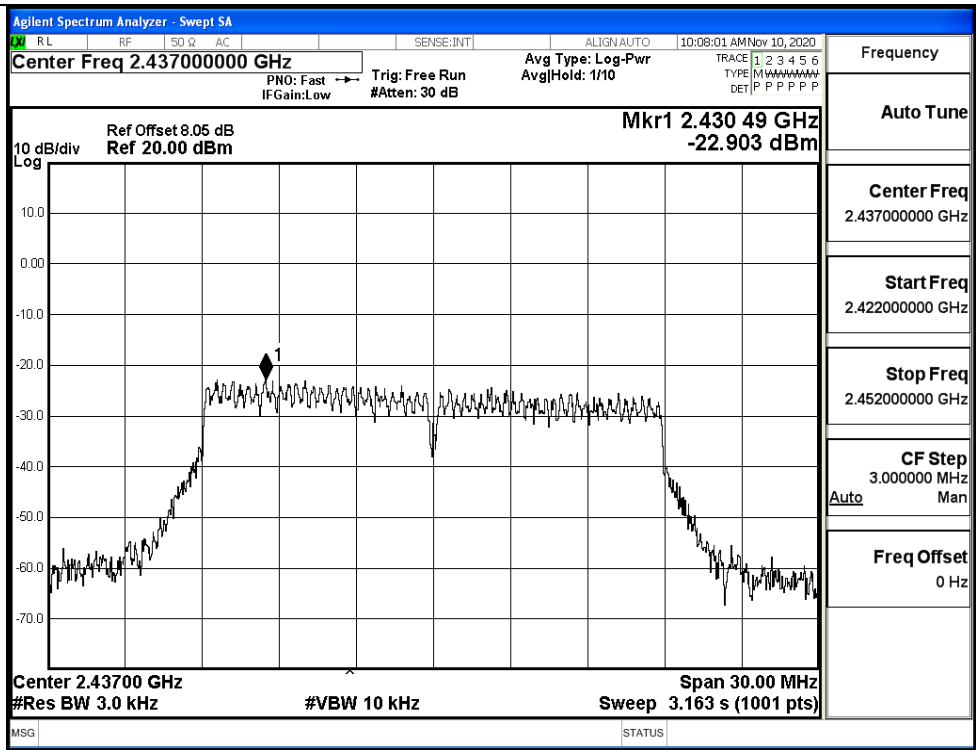


11N20SISO/LCH

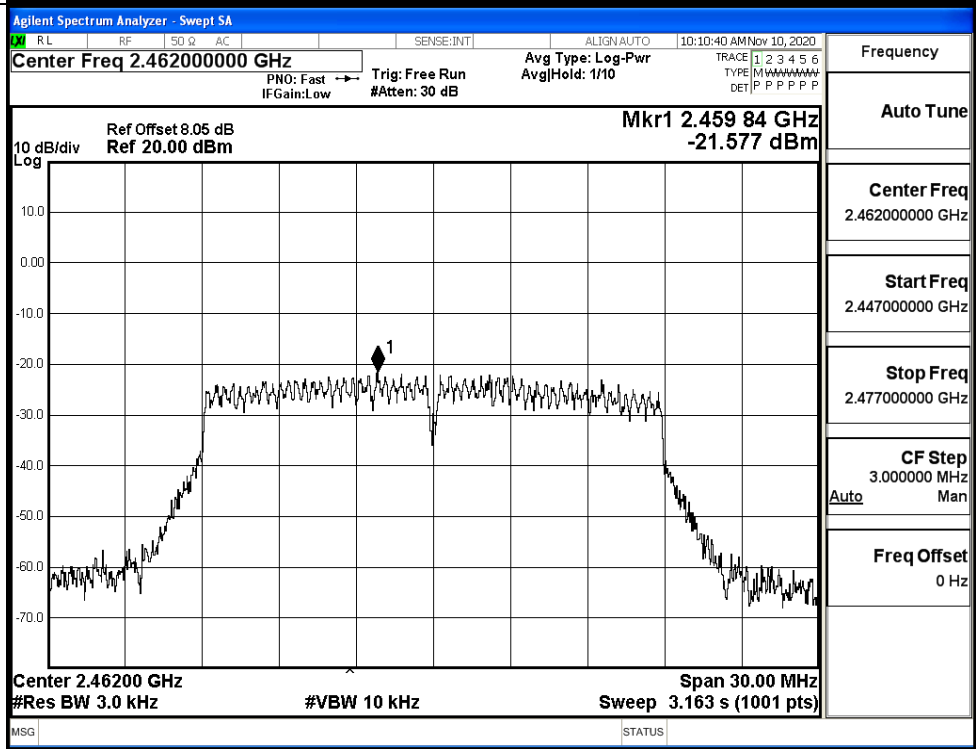




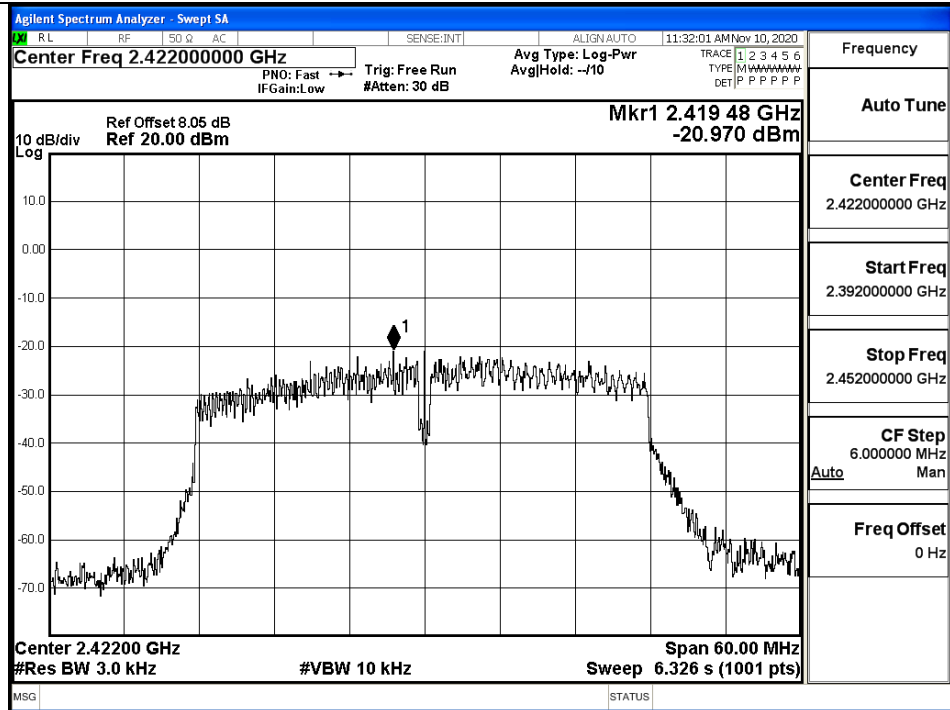
11N20SISO/MCH



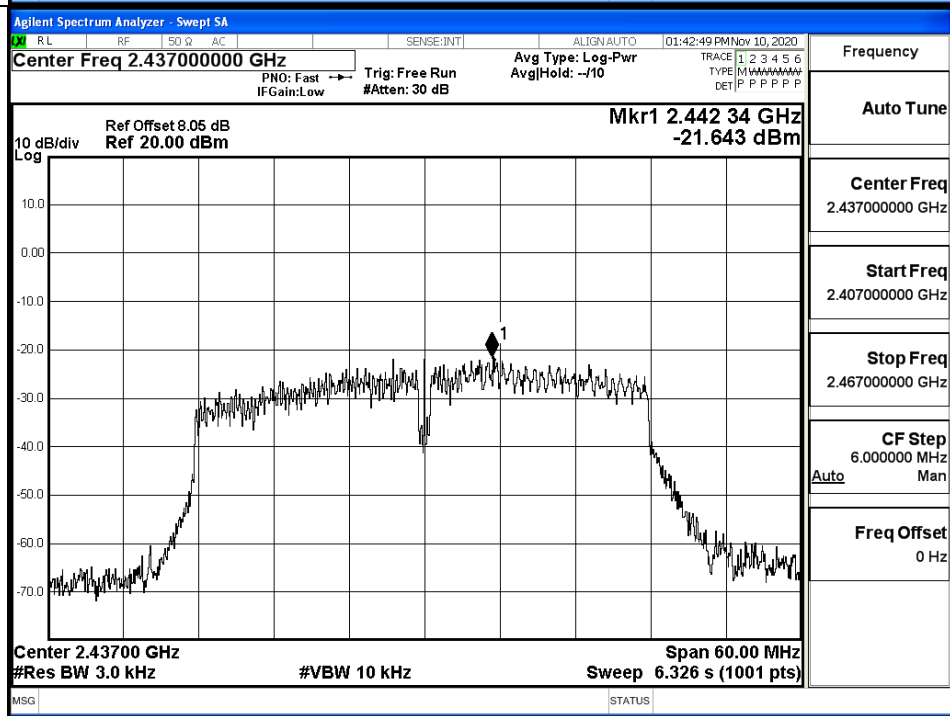
11N20SISO/HCH



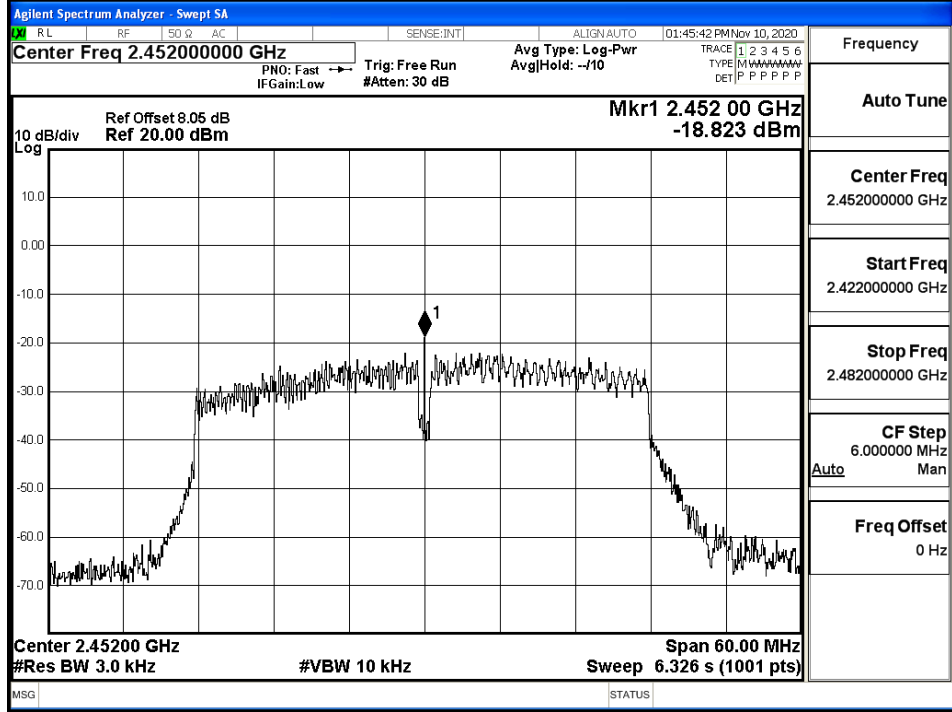
11N40SISO/LCH



11N40SISO/MCH



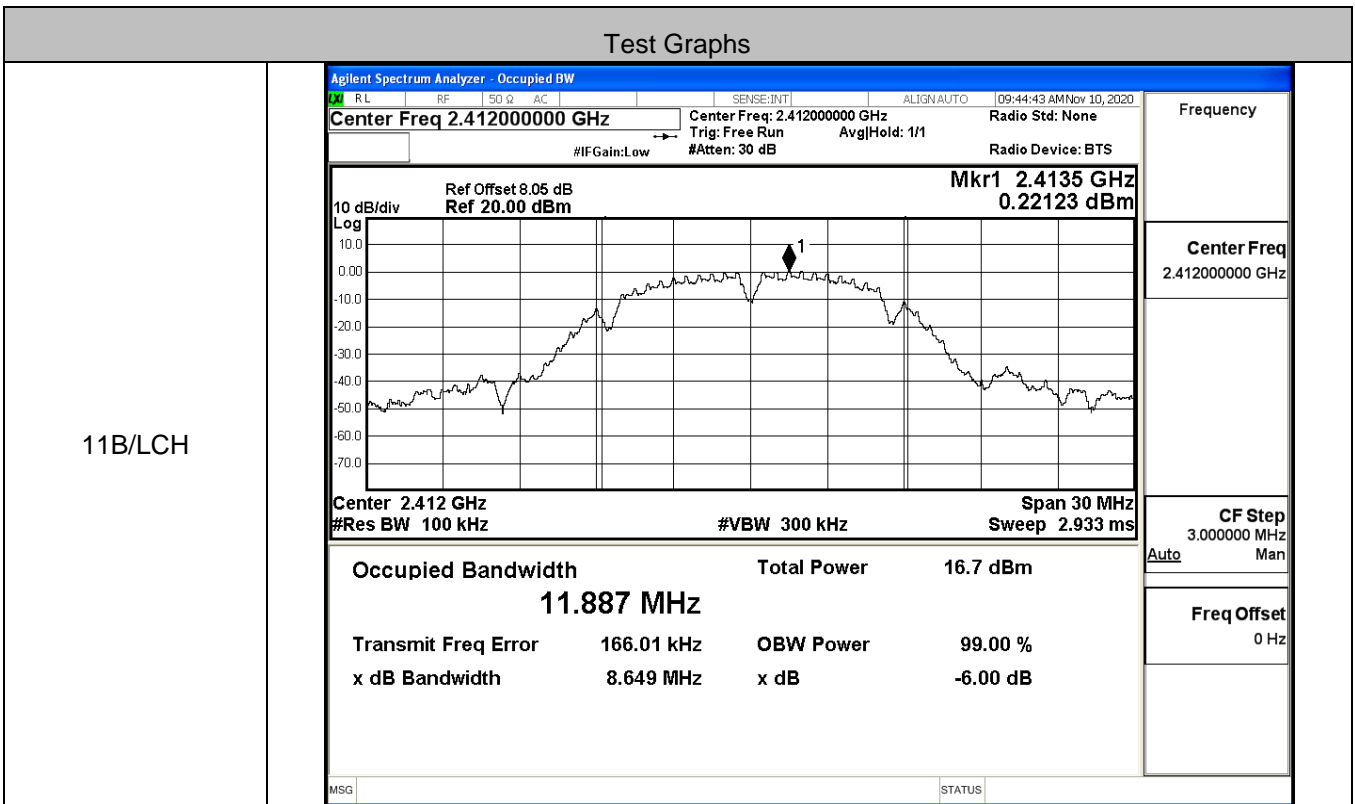
11N40SISO/HCH



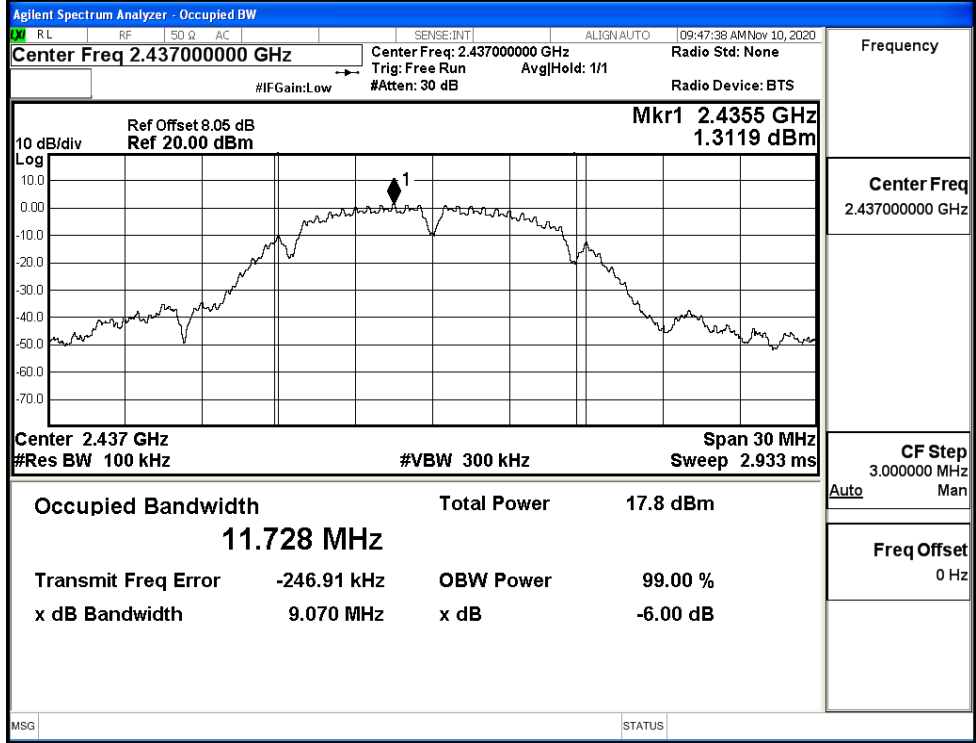
**C.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.649	≥0.5	PASS
	MCH	9.070	≥0.5	PASS
	HCH	8.618	≥0.5	PASS
11G	LCH	15.67	≥0.5	PASS
	MCH	15.77	≥0.5	PASS
	HCH	15.53	≥0.5	PASS
11N20SISO	LCH	15.99	≥0.5	PASS
	MCH	16.72	≥0.5	PASS
	HCH	16.65	≥0.5	PASS
11N40SISO	LCH	33.81	≥0.5	PASS
	MCH	31.36	≥0.5	PASS
	HCH	33.84	≥0.5	PASS

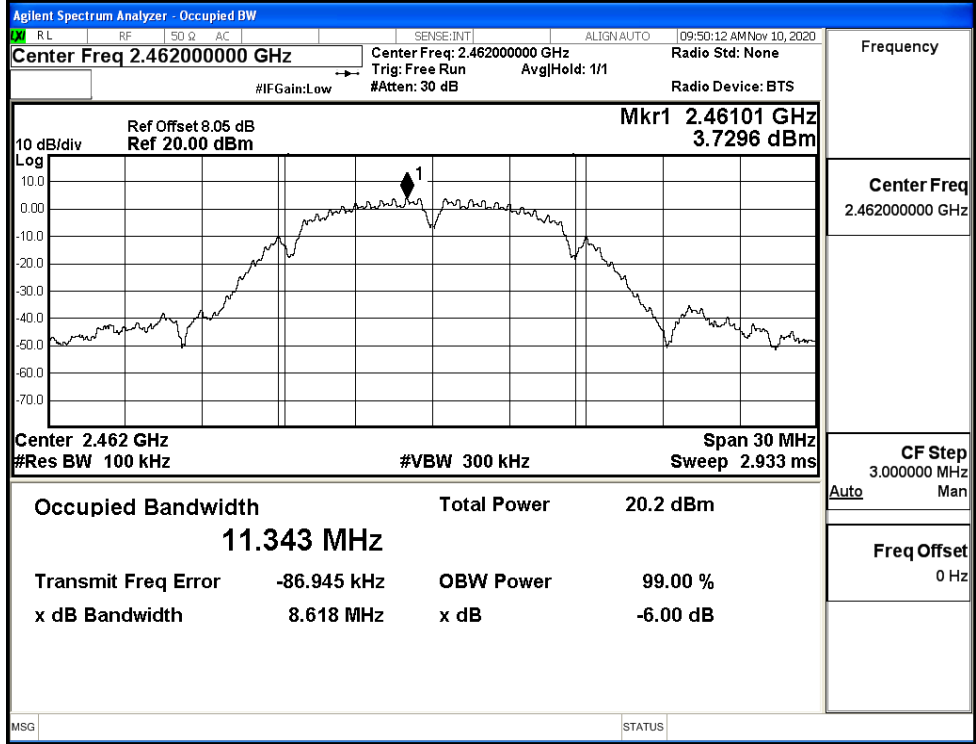
**Test Graphs**



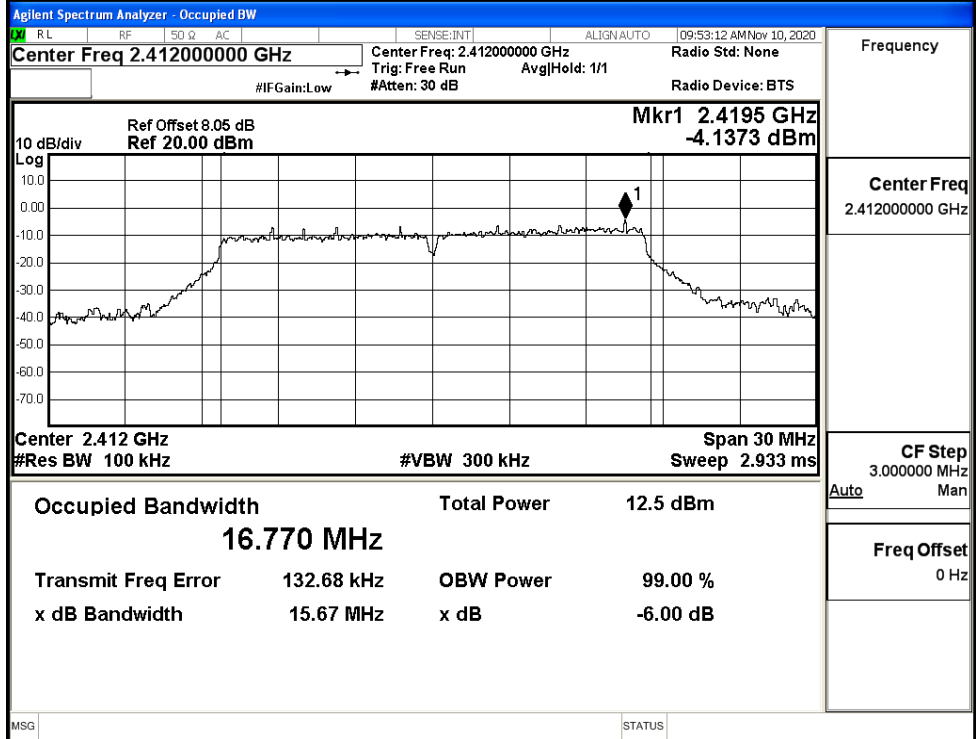
11B/MCH



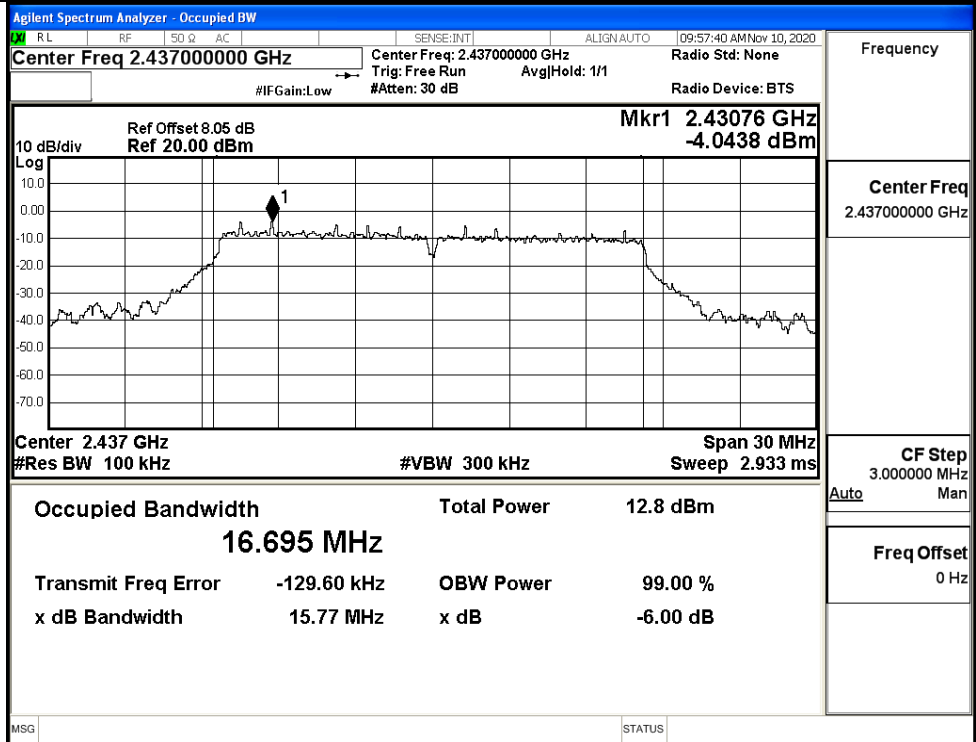
11B/HCH



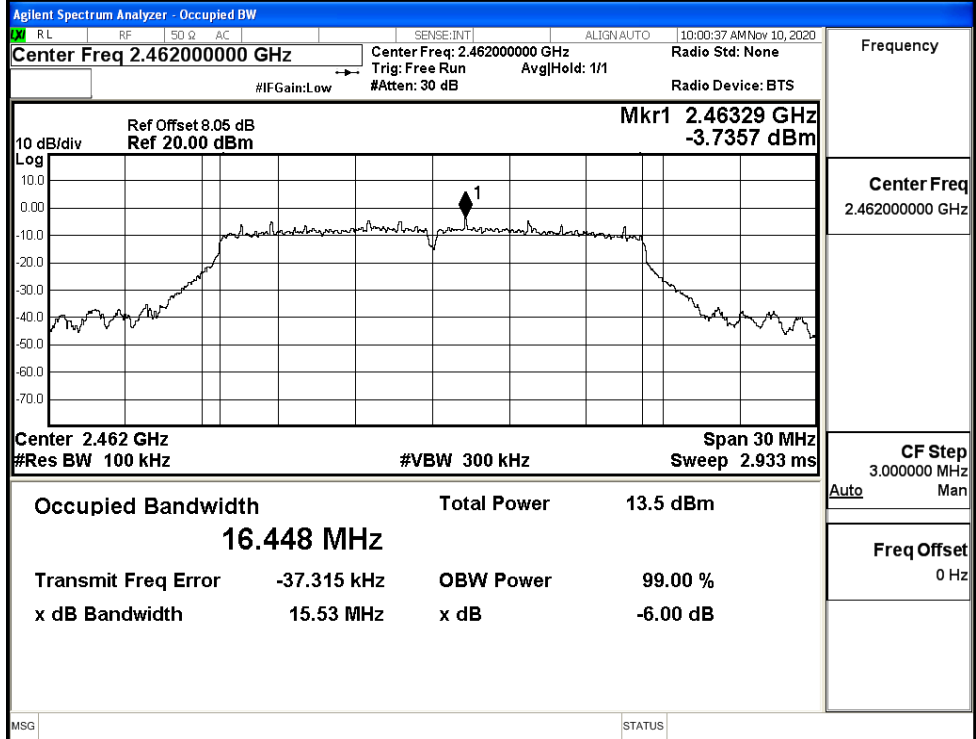
11G/LCH



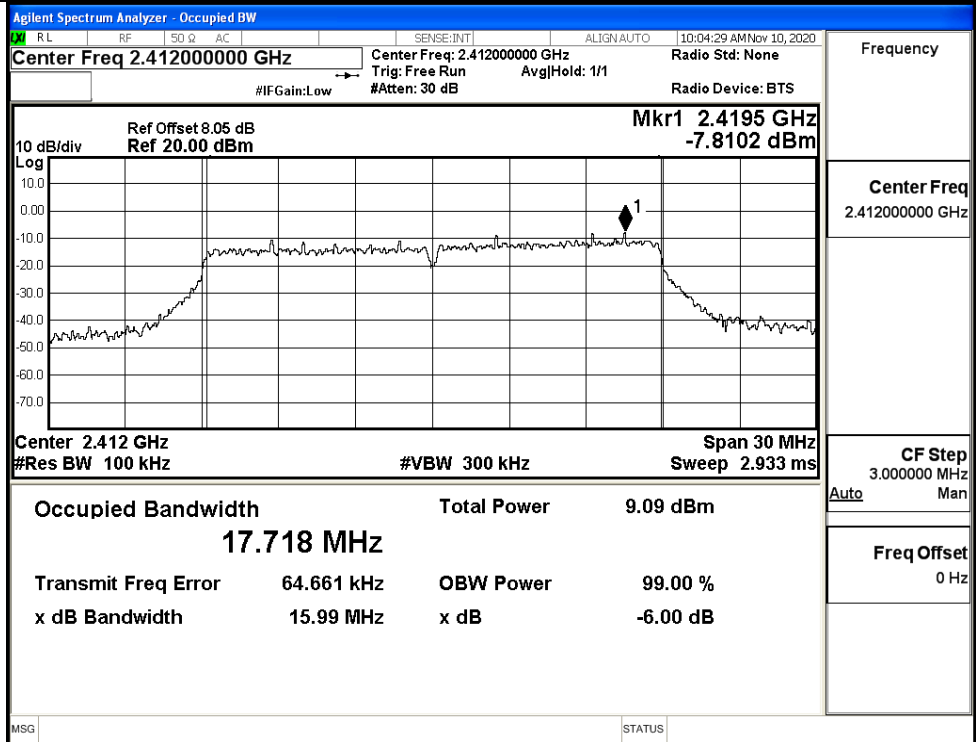
11G/MCH



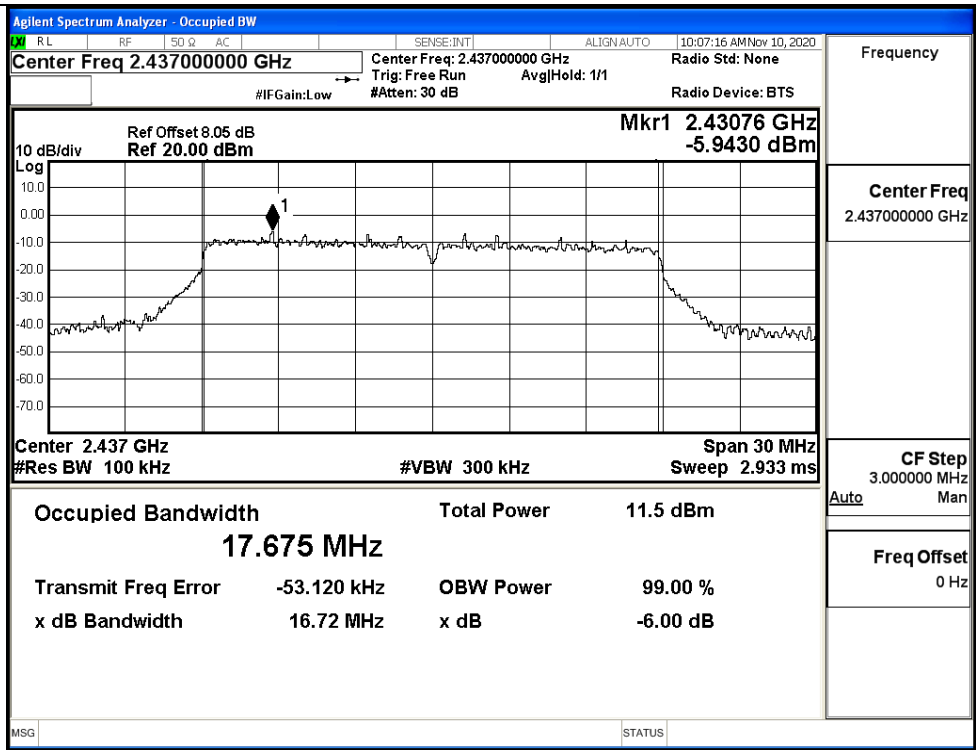
11G/HCH



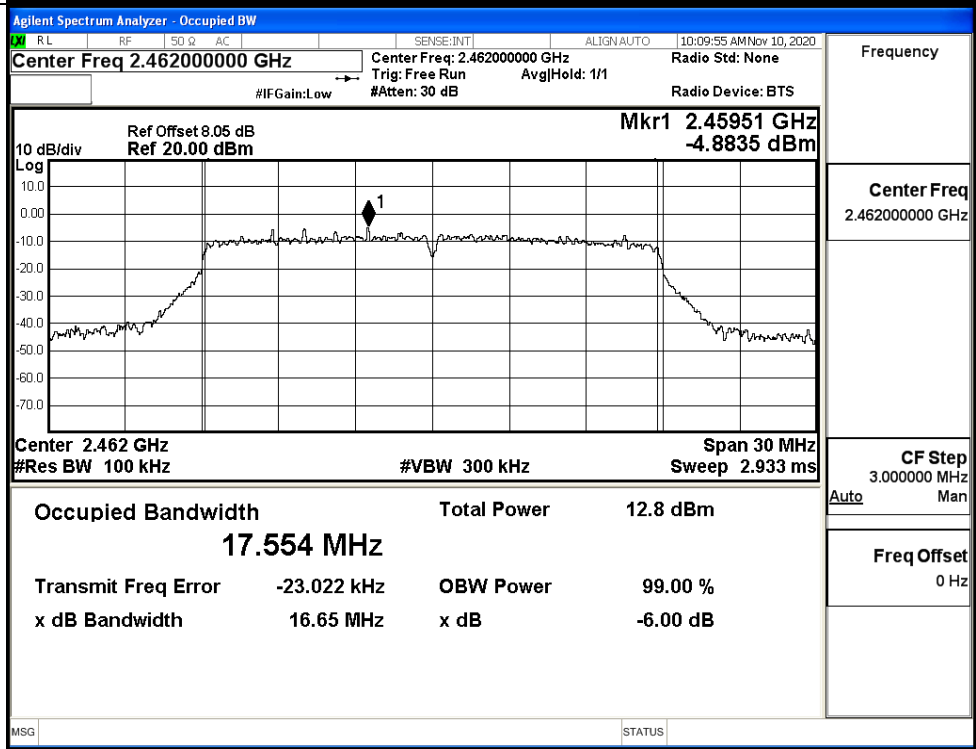
11N20SISO/LCH



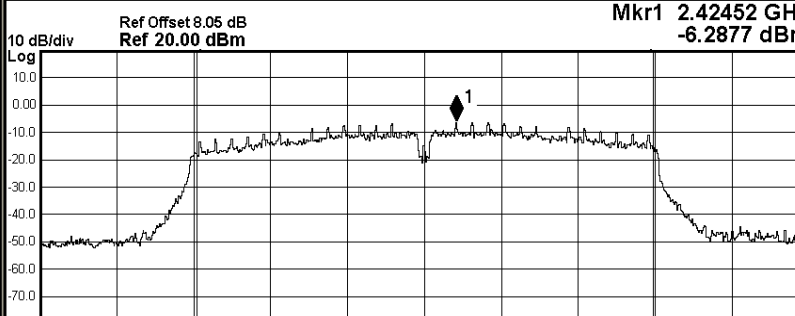
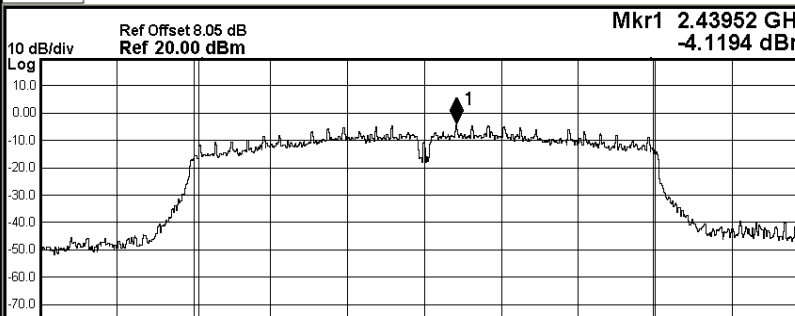
11N20SISO/MCH



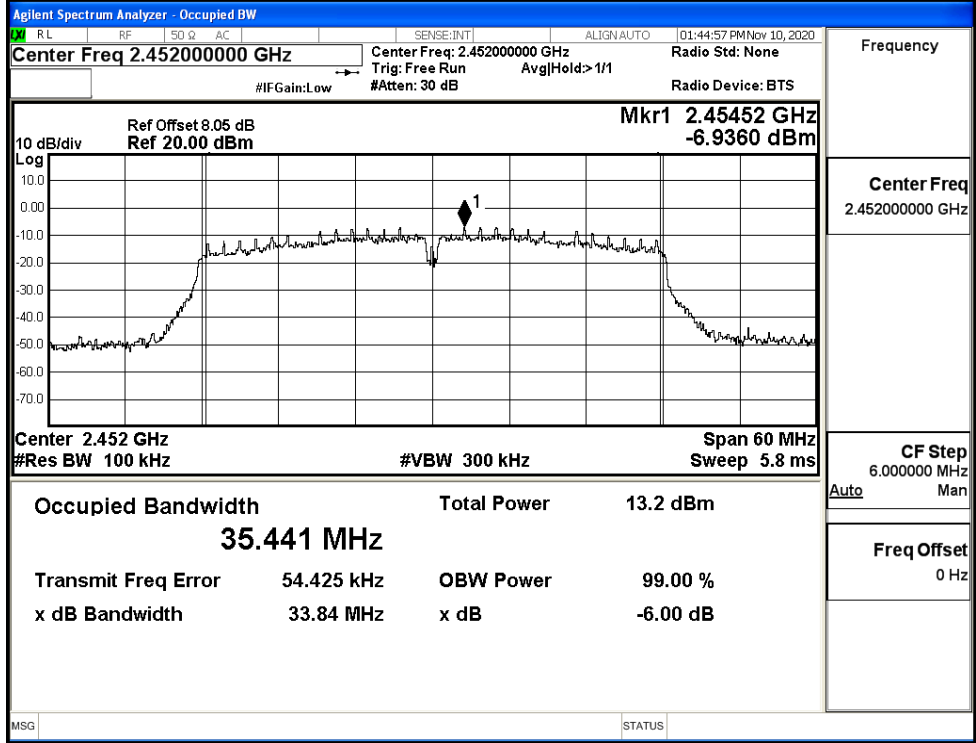
11N20SISO/HCH





<p>11N40SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.42200000 GHz</p> <p>Mkr1 2.42452 GHz -6.2877 dBm</p>  <p>Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms</p> <p>Occupied Bandwidth 35.383 MHz Total Power 13.5 dBm</p> <p>Transmit Freq Error 102.49 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 33.81 MHz x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq 2.42200000 GHz</p> <p>CF Step 6.000000 MHz</p> <p>Freq Offset 0 Hz</p>
<p>11N40SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Mkr1 2.43952 GHz -4.1194 dBm</p>  <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms</p> <p>Occupied Bandwidth 35.381 MHz Total Power 15.6 dBm</p> <p>Transmit Freq Error 114.38 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 31.36 MHz x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq 2.43700000 GHz</p> <p>CF Step 6.000000 MHz</p> <p>Freq Offset 0 Hz</p>

11N40SISO/HCH

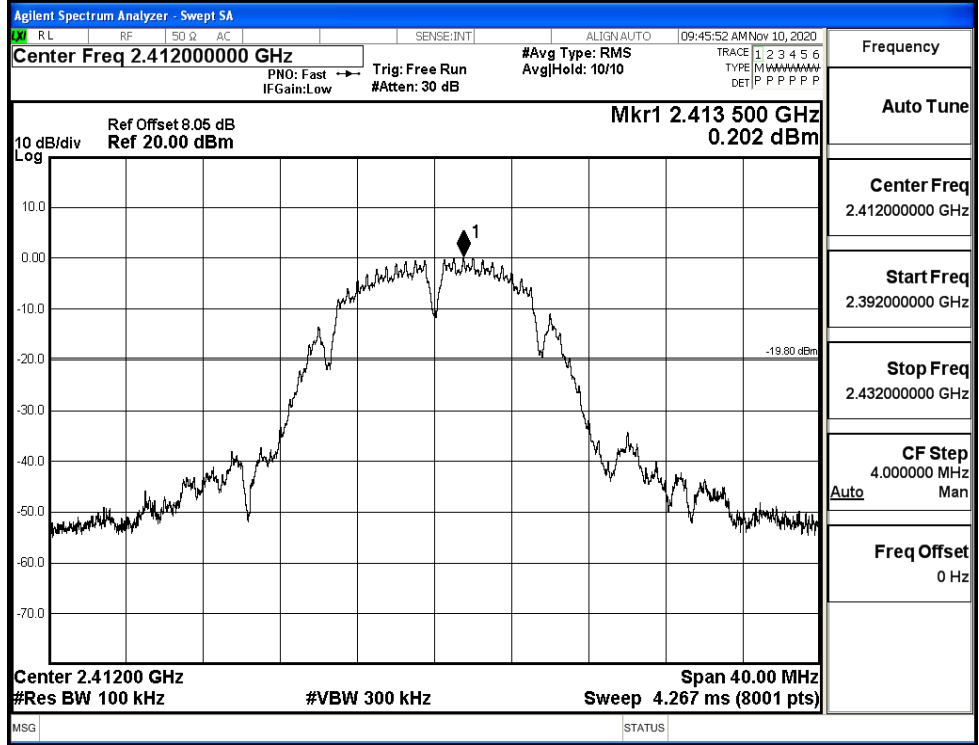


**C.5 RF Conducted Spurious Emissions**

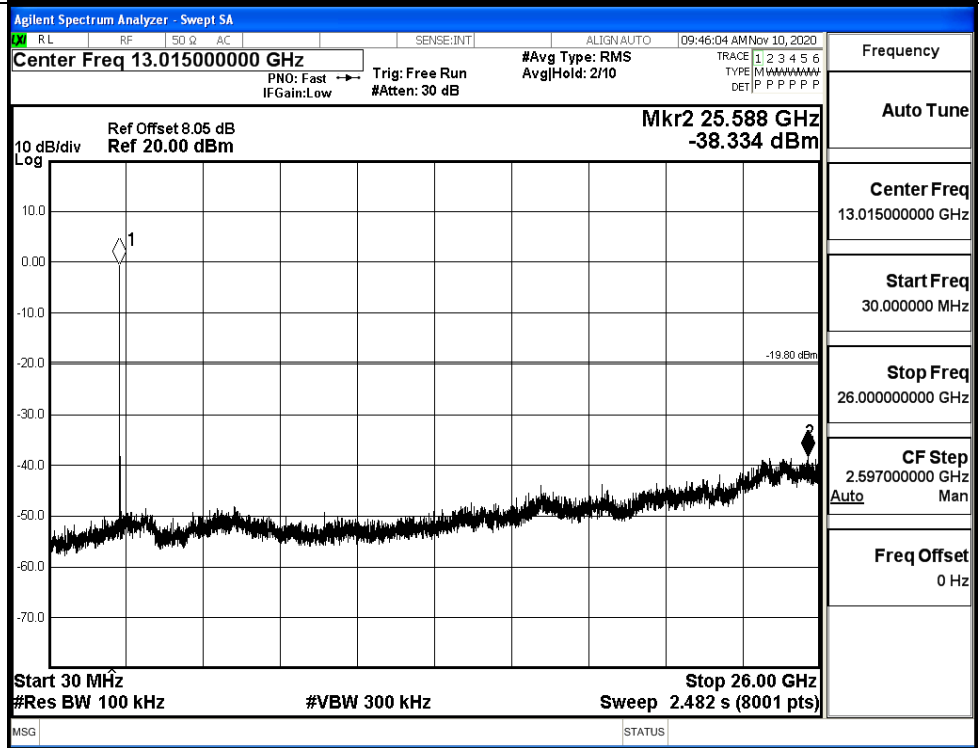
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.202	-38.334	-19.798	PASS
	MCH	1.21	-38.237	-18.790	PASS
	HCH	1.307	-38.697	-18.693	PASS
11G	LCH	-6.93	-38.352	-26.930	PASS
	MCH	-5.104	-37.764	-25.104	PASS
	HCH	-4.694	-37.793	-24.694	PASS
11N20 SISO	LCH	-8.741	-38.124	-28.741	PASS
	MCH	-7.064	-37.929	-27.064	PASS
	HCH	-4.555	-38.451	-24.555	PASS
11N40 SISO	LCH	-7.11	-38.060	-27.110	PASS
	MCH	-7.327	-38.469	-27.327	PASS
	HCH	-7.151	-38.284	-27.151	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

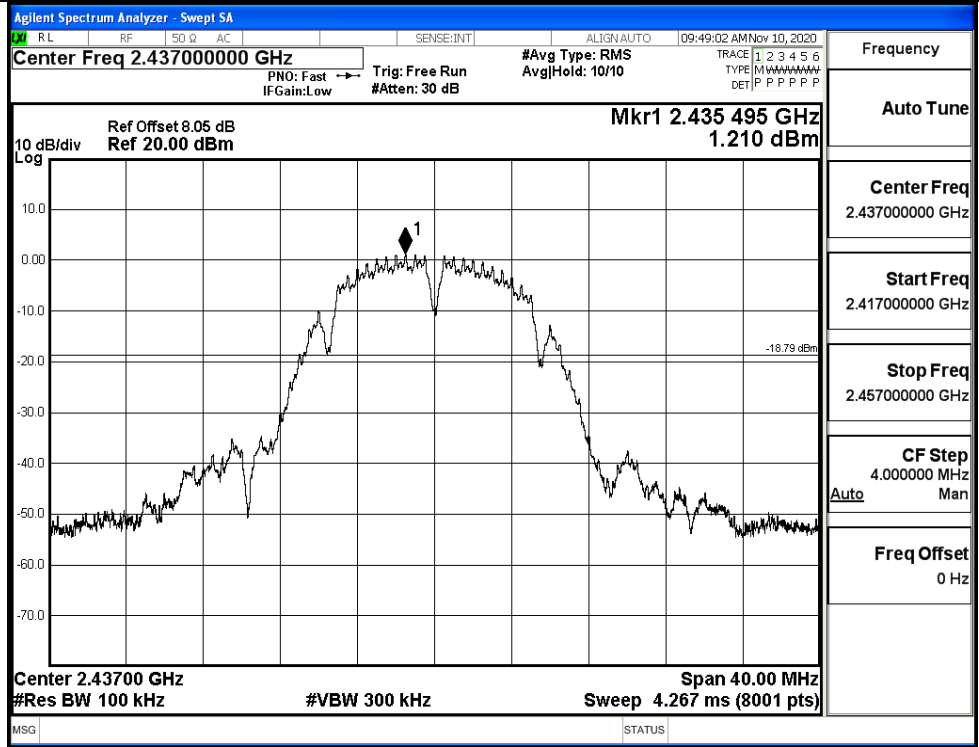


Puw/11B/LCH

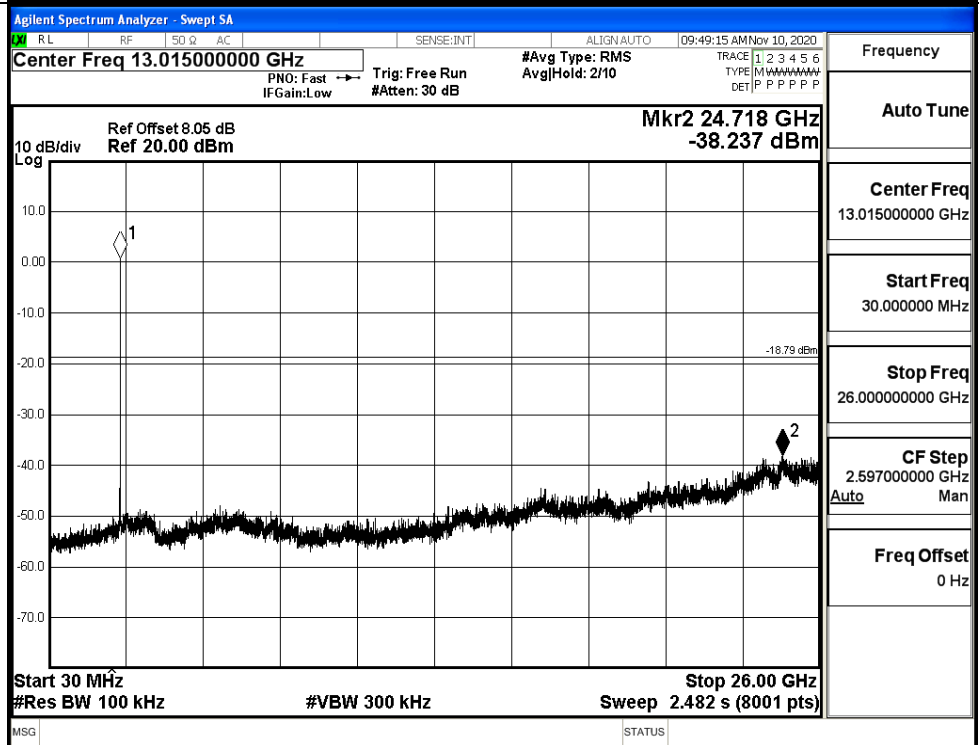


11B\_MCH\_Graphs

Pref/11B/MCH

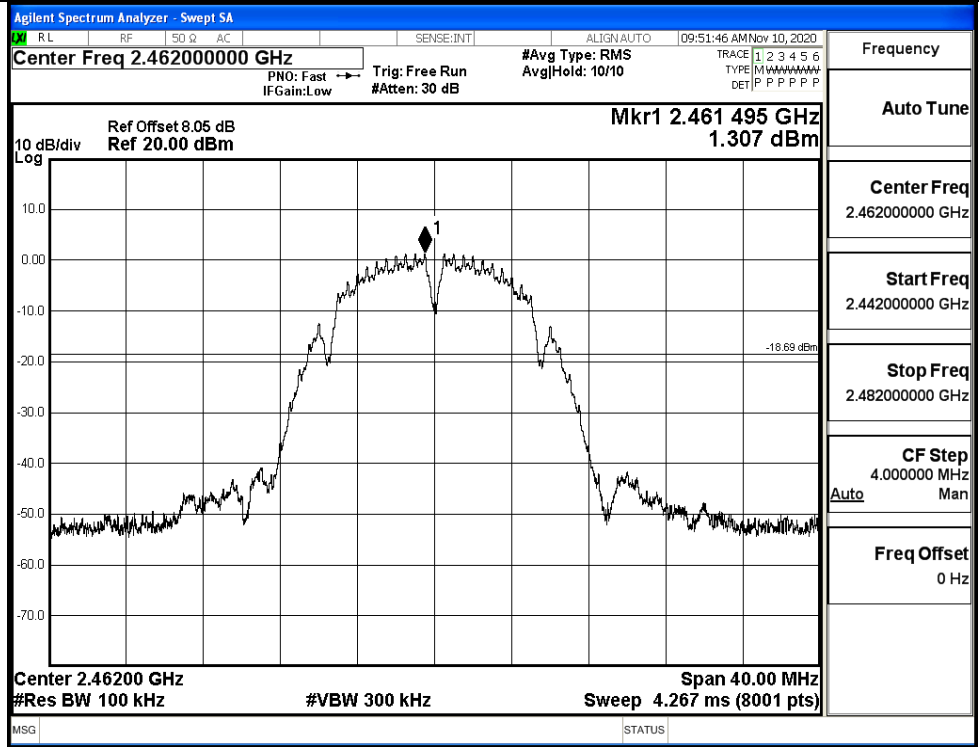


Puw/11B/MCH

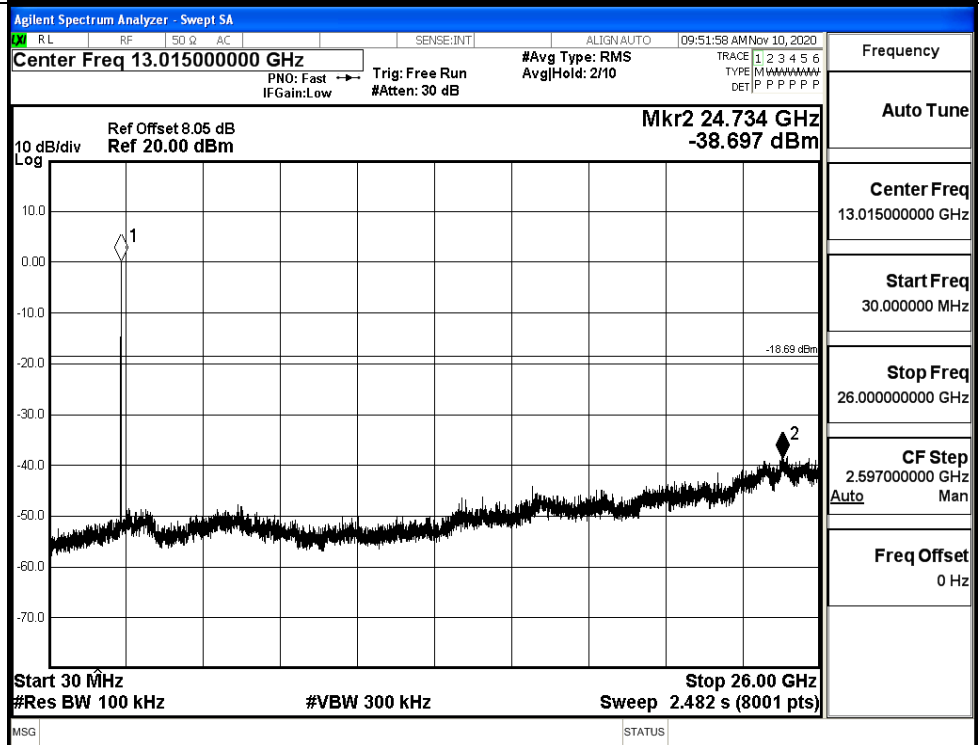


11B\_HCH\_Graphs

Pref/11B/HCH

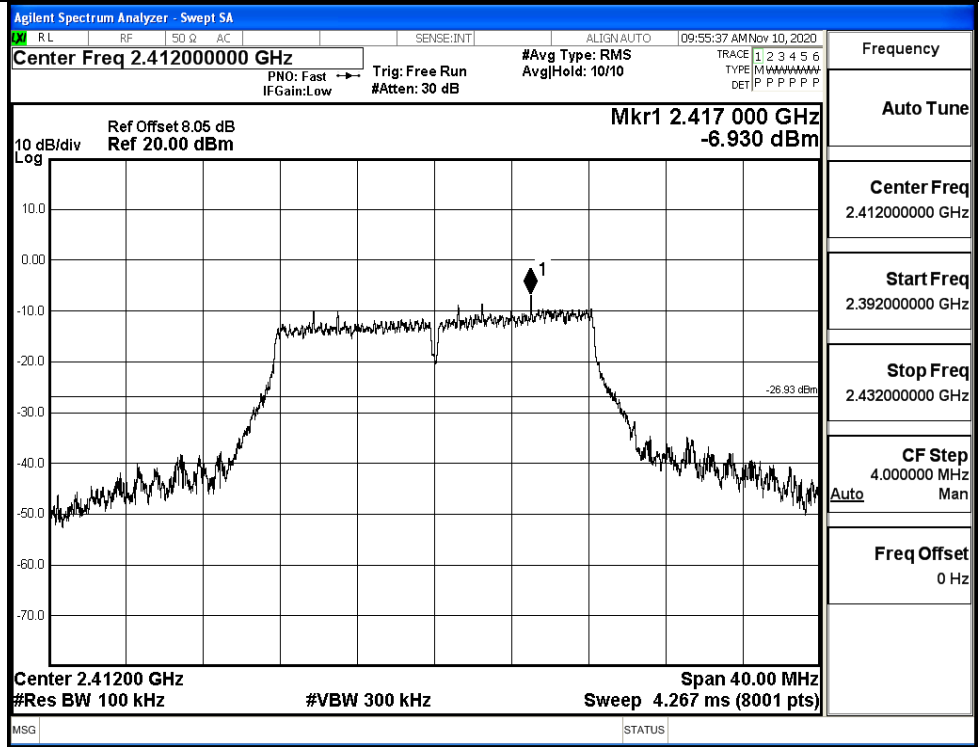


Puw/11B/HCH

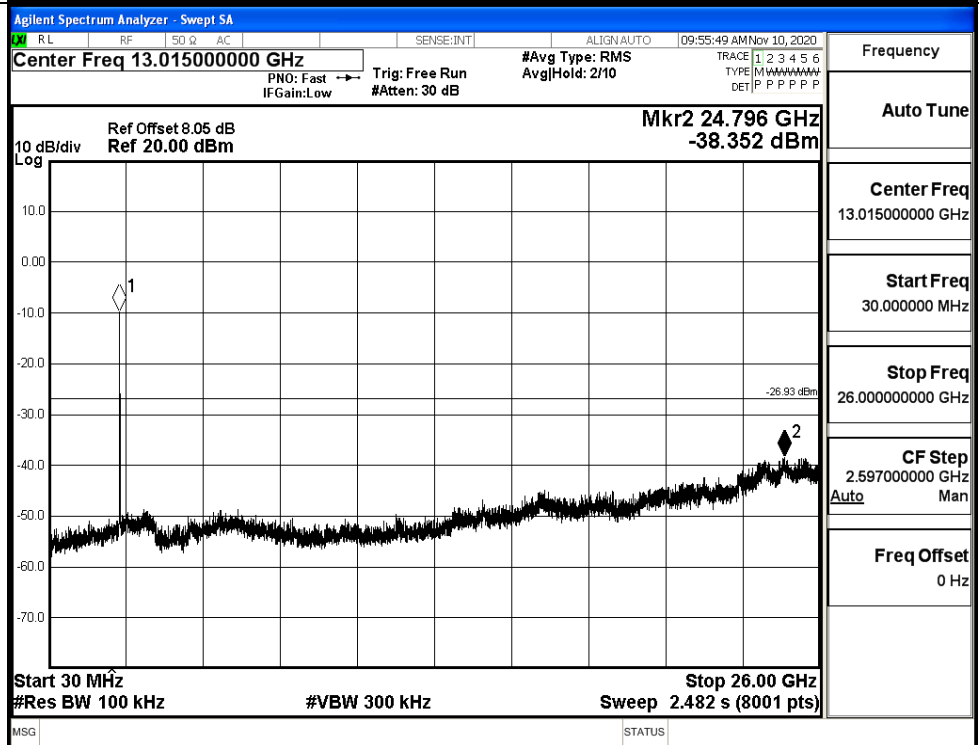


11G\_LCH\_Graphs

Pref/11G/LCH

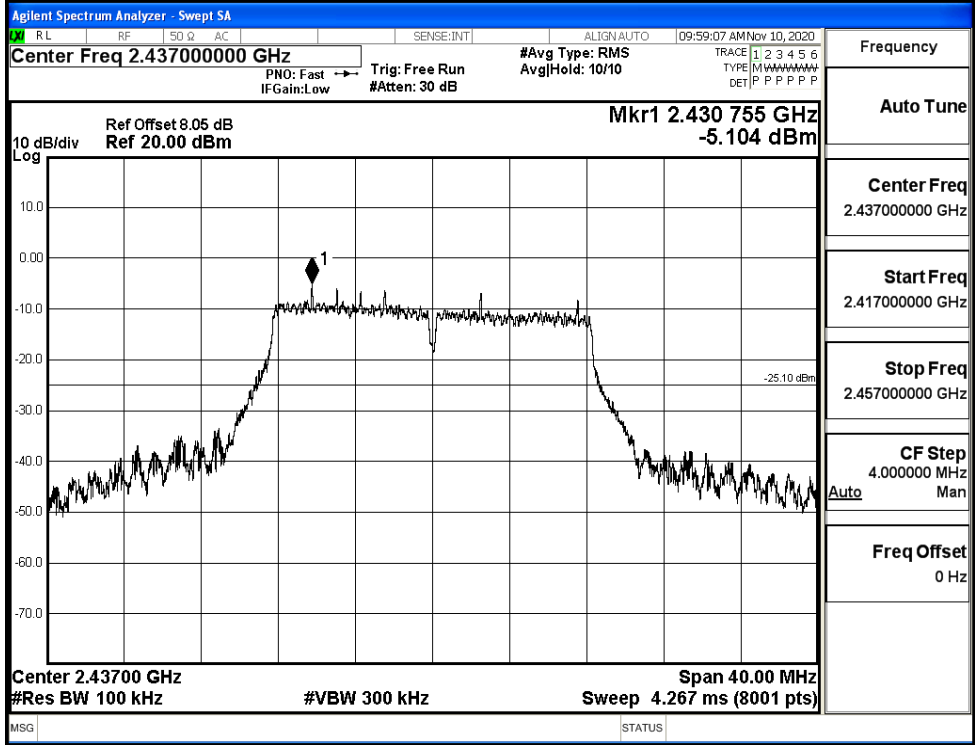


Puw/11G/LCH

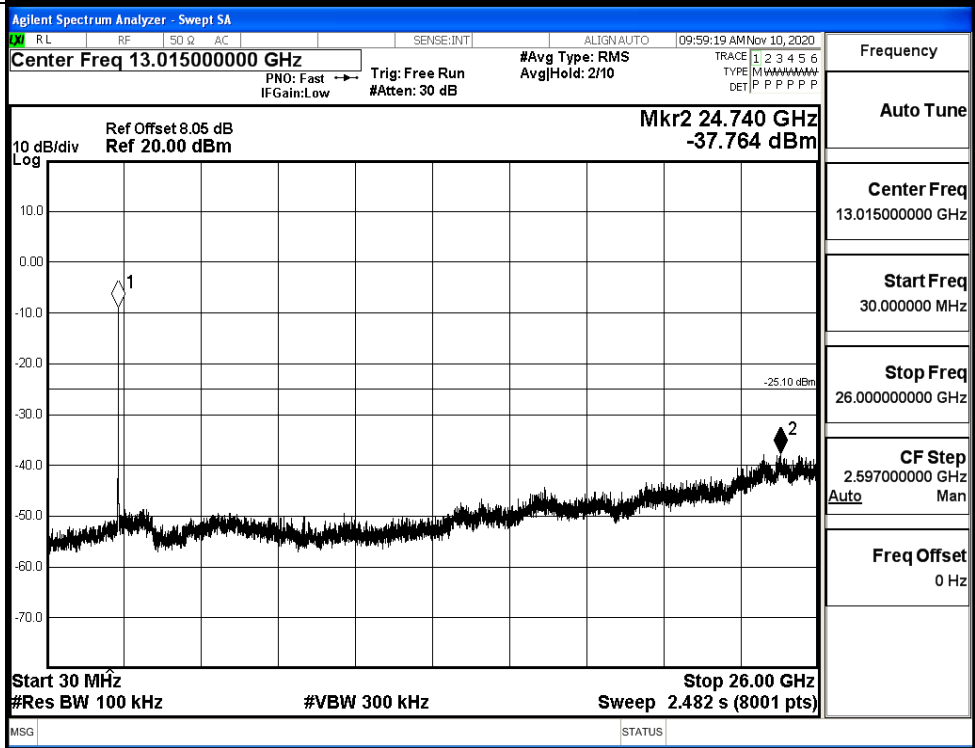


11G\_MCH\_Graphs

Pref/11G/MCH



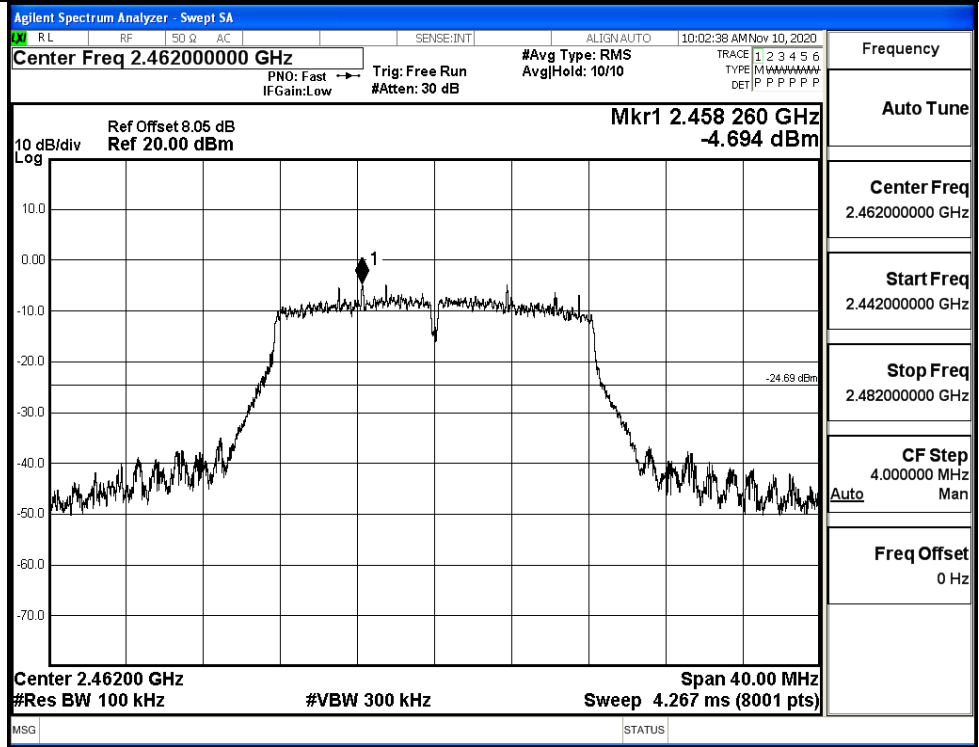
Puw/11G/MCH



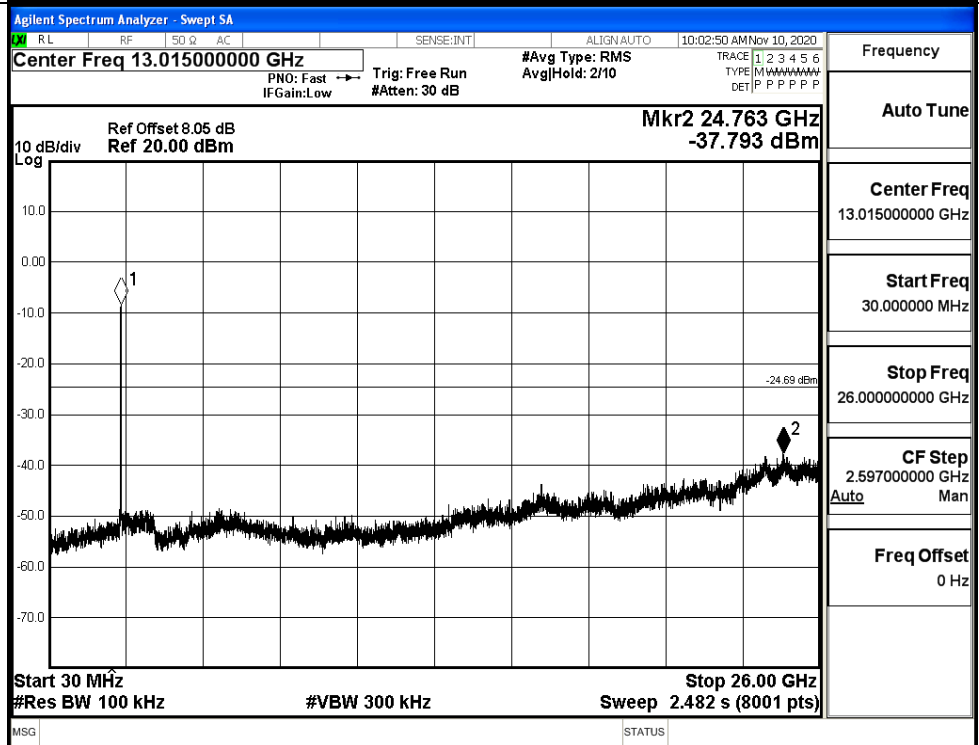


11G\_HCH\_Graphs

Pref/11G/HCH

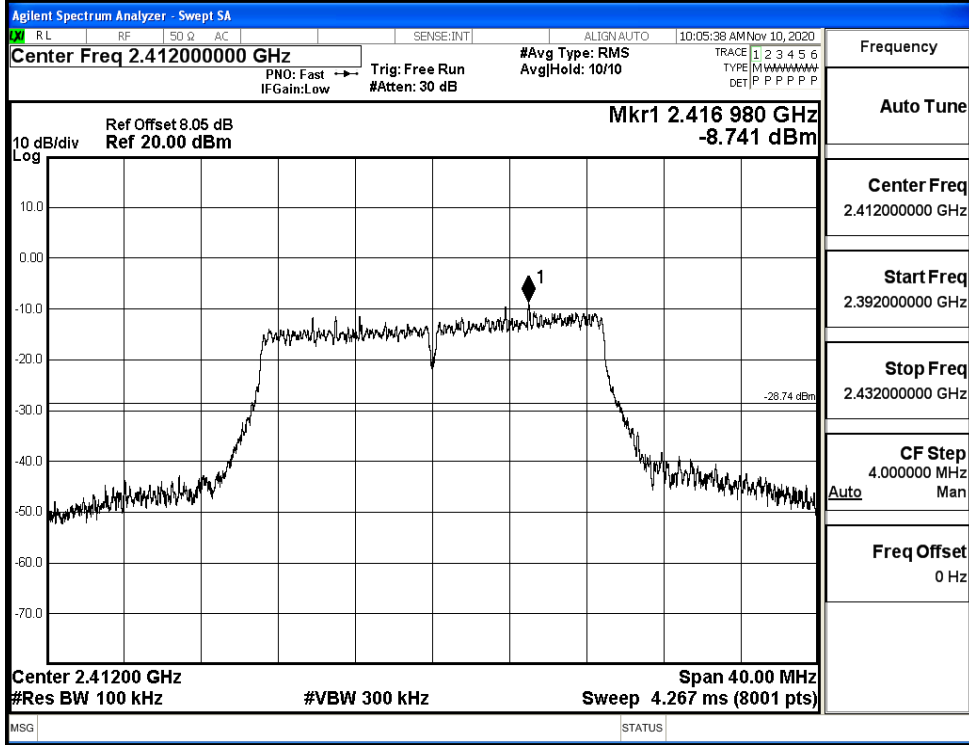


Puw/11G/HCH

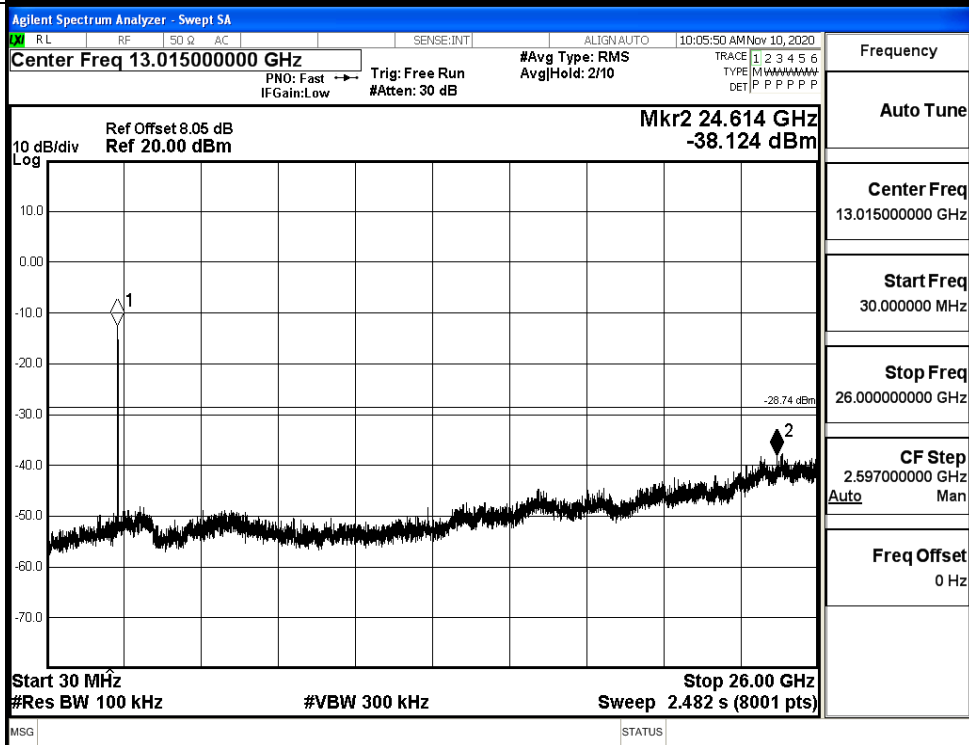


11N20SISO\_LCH\_Graphs

Pref/11N20SIS  
O/LCH

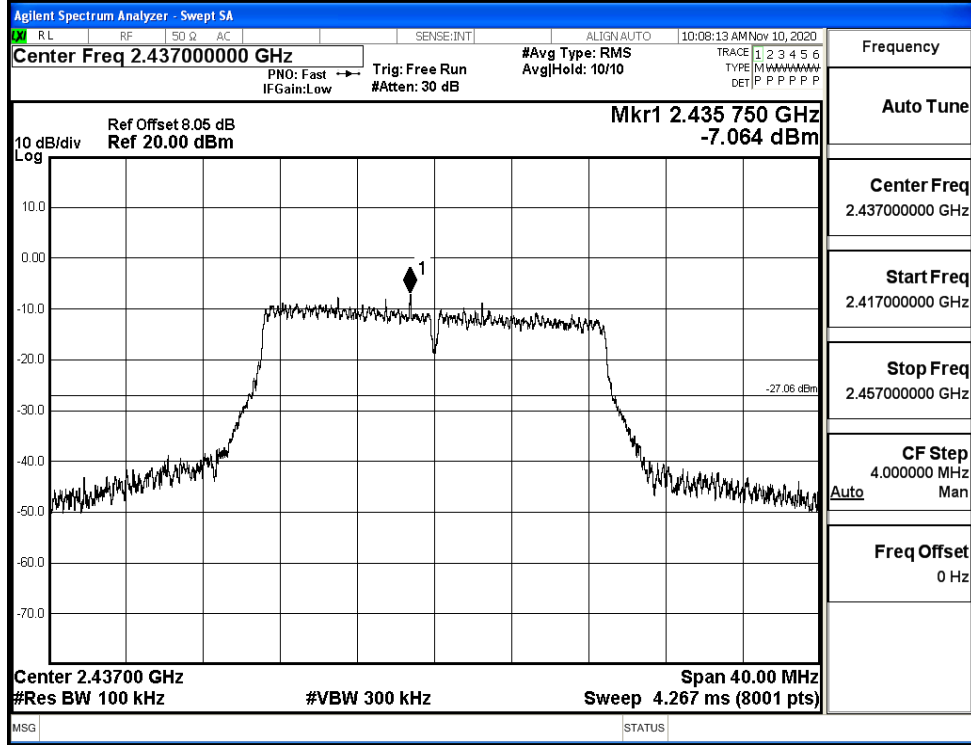


Puw/11N20  
SISO/LCH

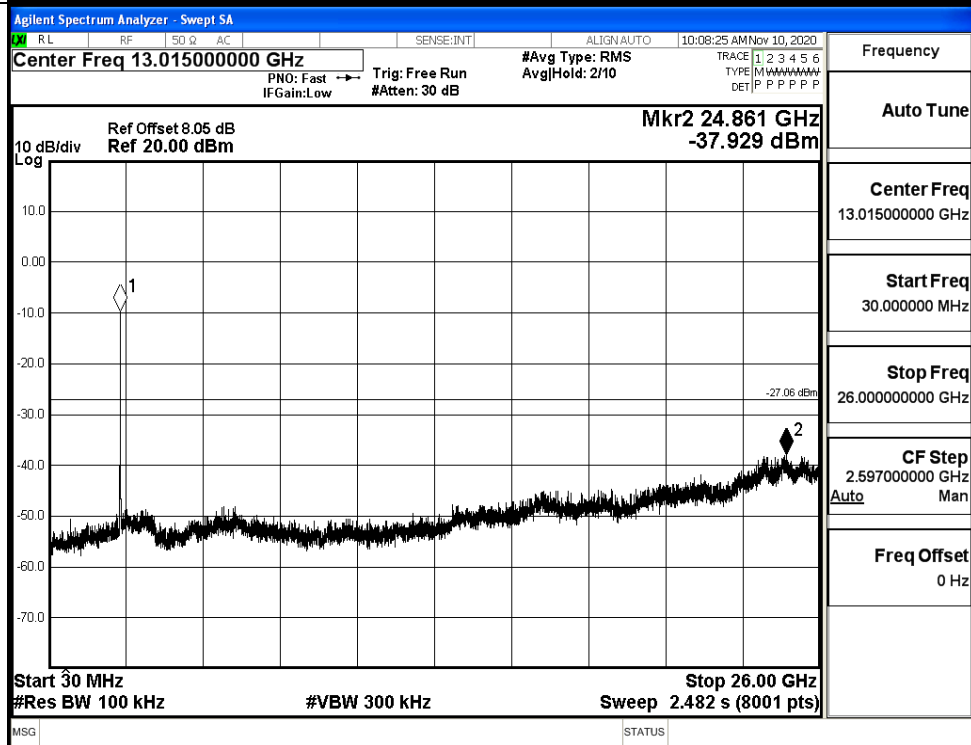


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

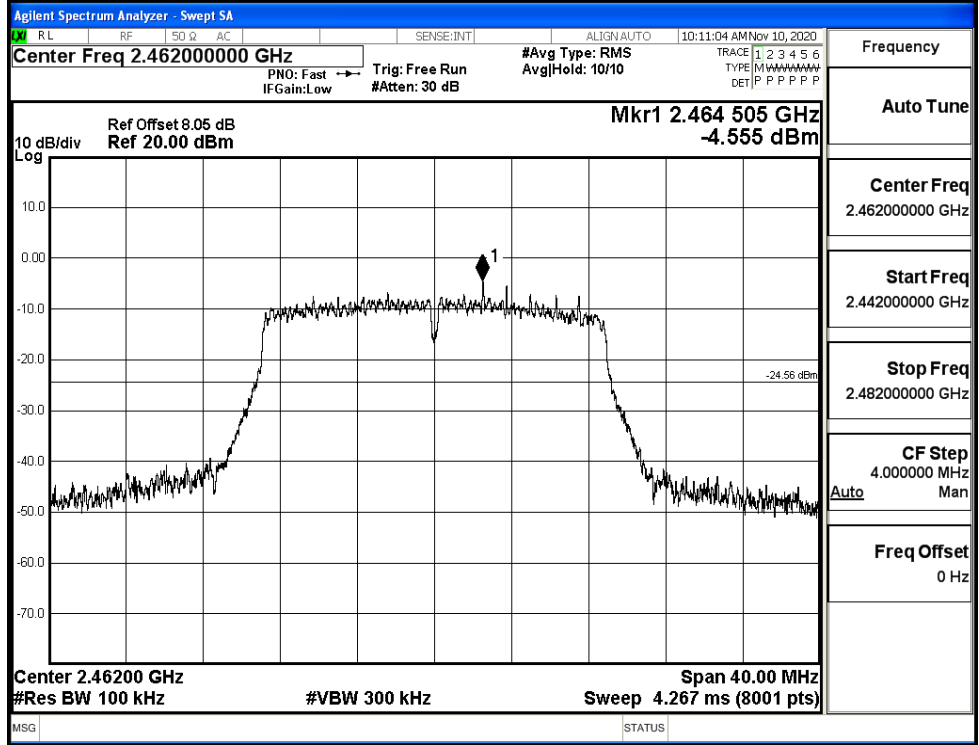


Puw/11N20  
SISO/MCH

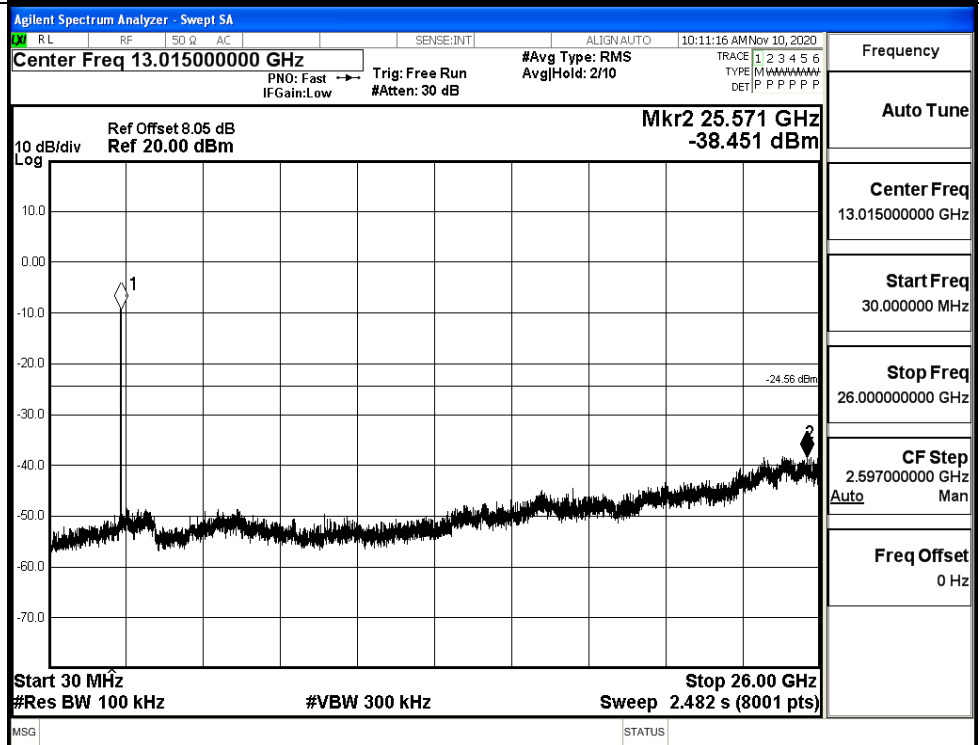


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

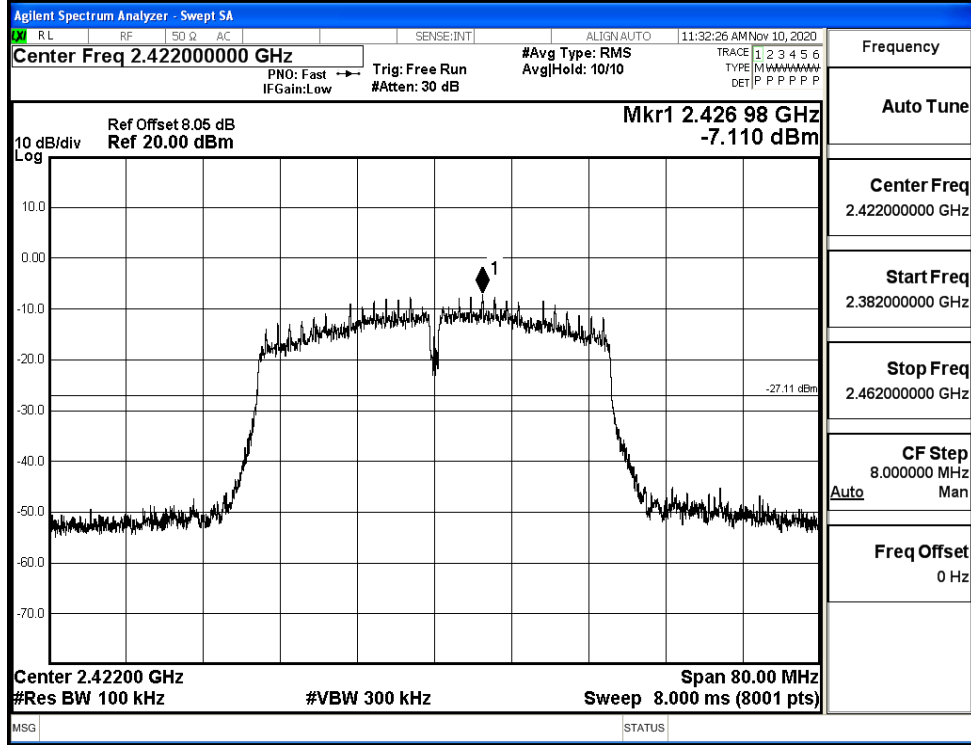


Puw/11N20  
SISO/HCH

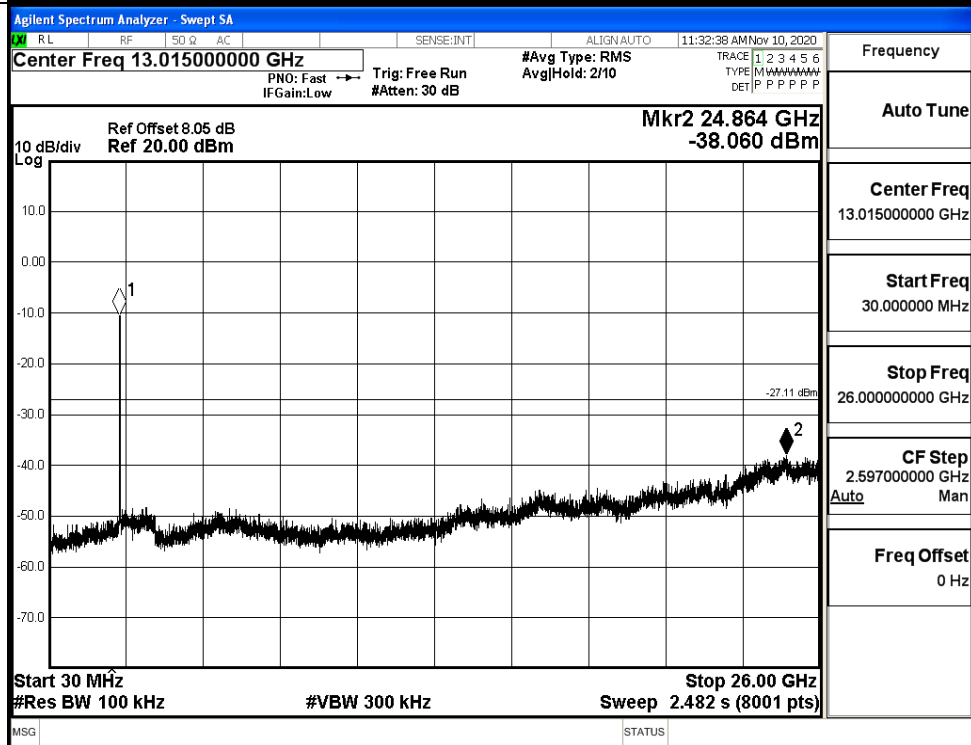


11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH

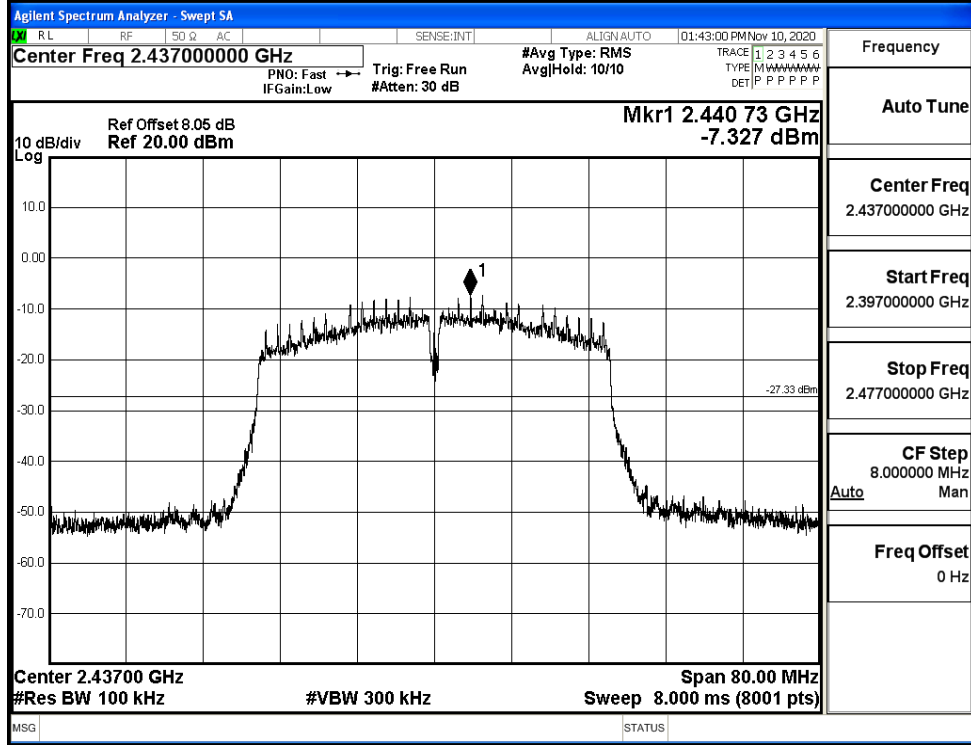


Puw/11N40  
SISO/LCH

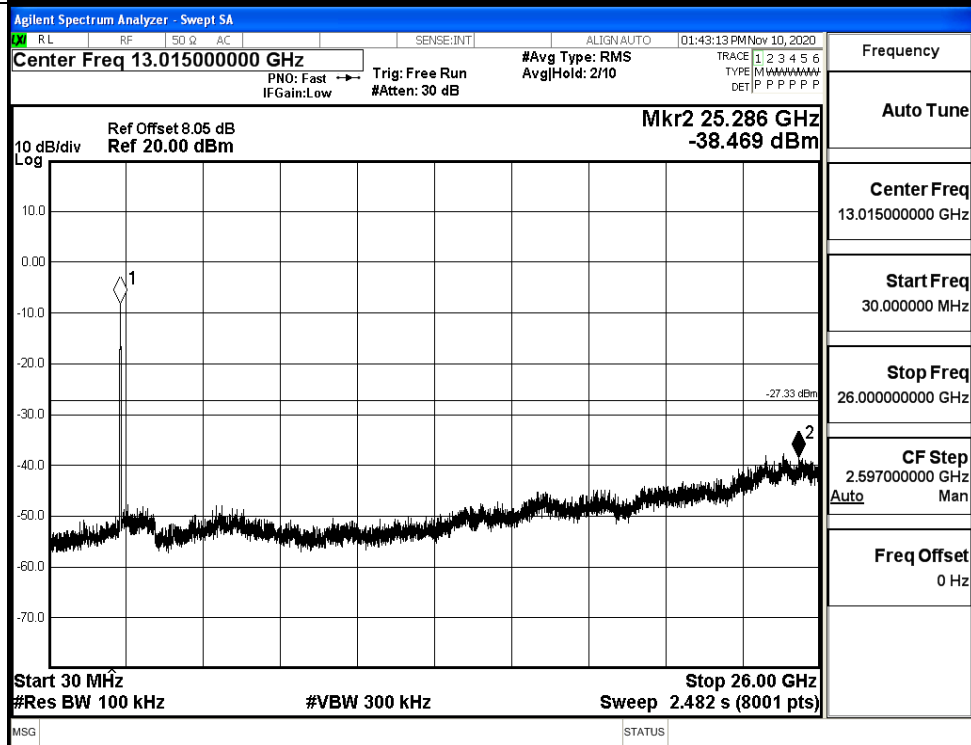


11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCH

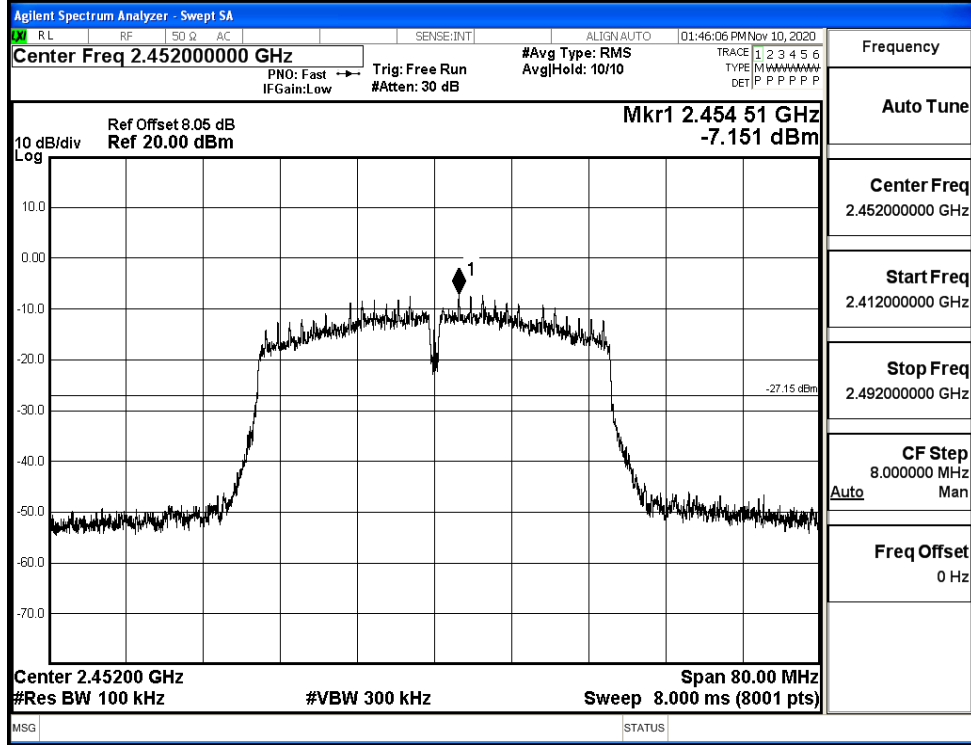


Puw/11N40  
SISO/MCH

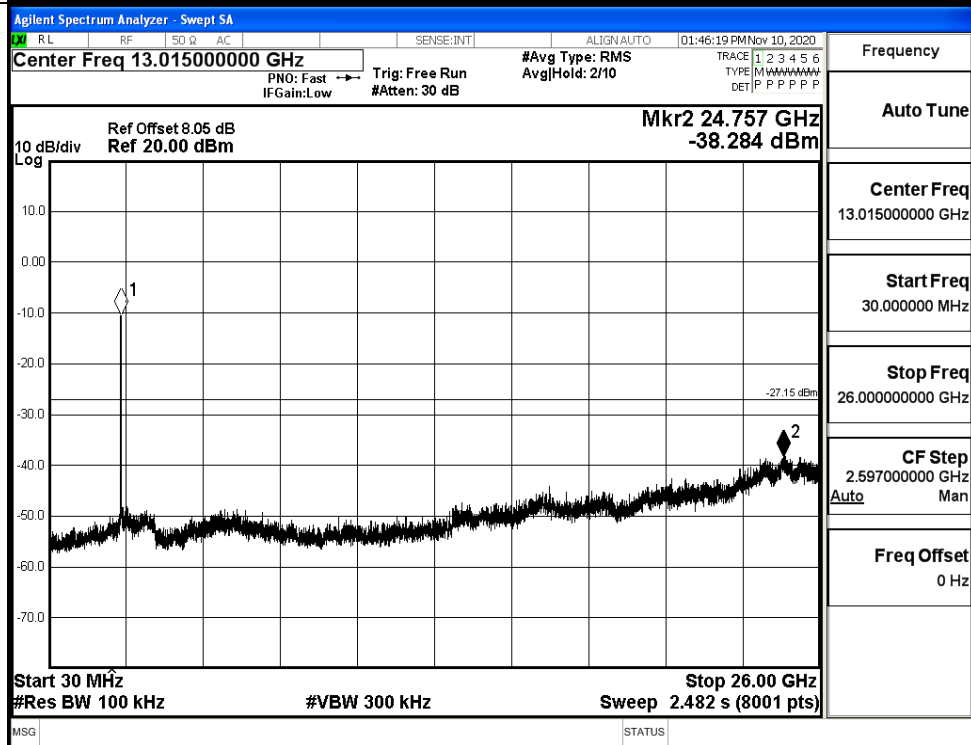


11N40SISO\_HCH\_Graphs

Pref/11N40  
SISO/HCH

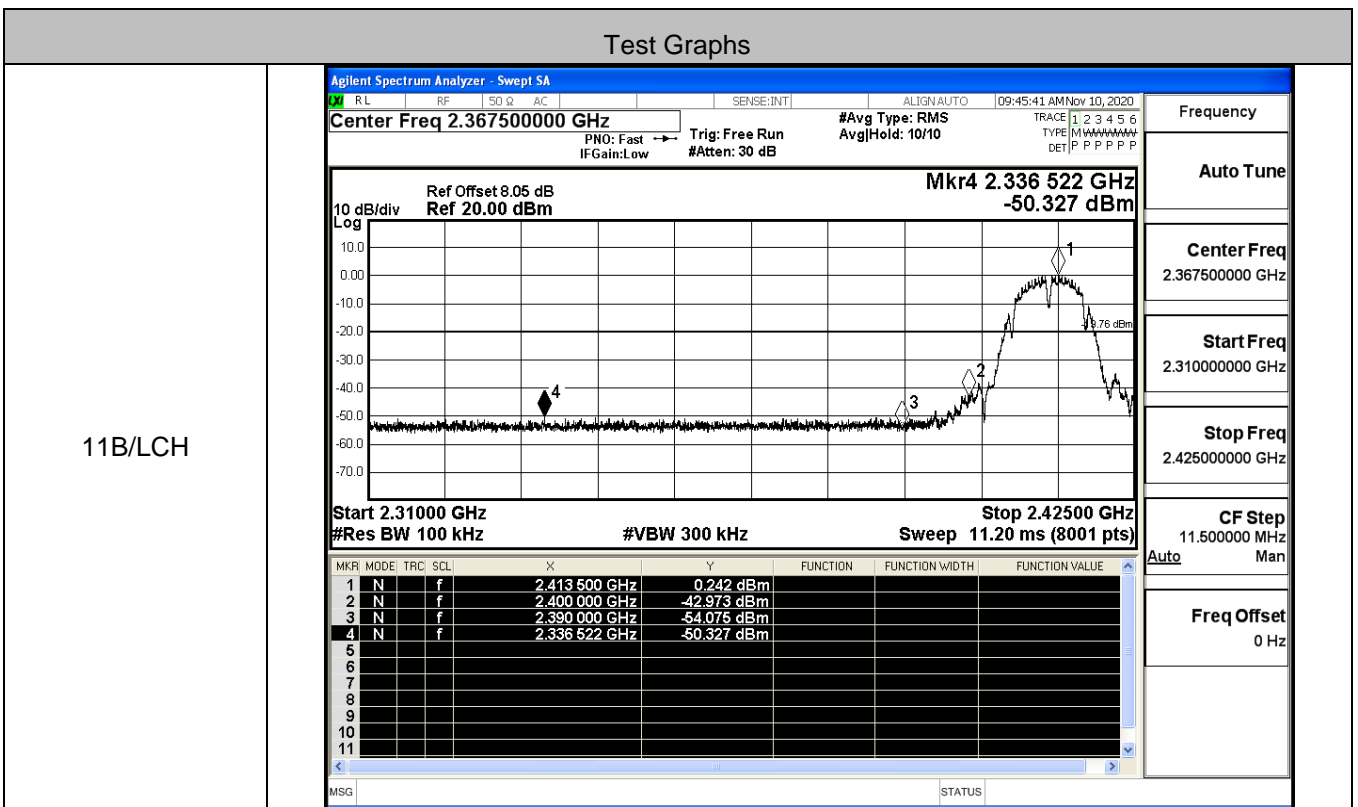


Puw/11N40  
SISO/HCH



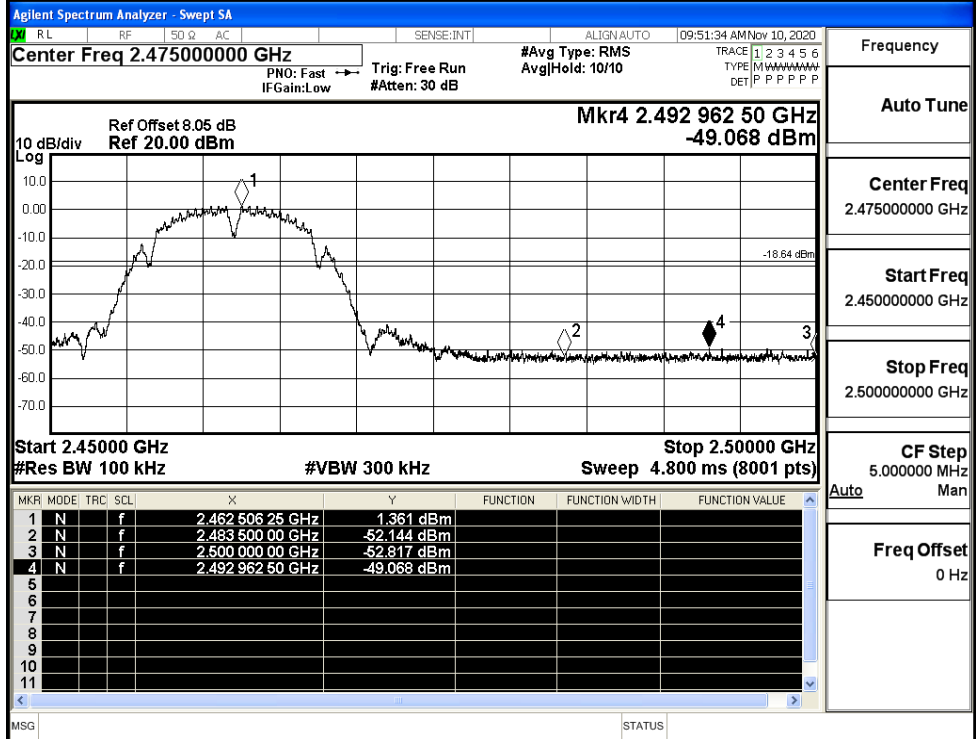
### C.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.242	-50.327	-19.76	PASS
	HCH	1.361	-49.068	-18.64	PASS
11G	LCH	-7.387	-49.748	-27.39	PASS
	HCH	-3.905	-44.949	-23.91	PASS
11N20SISO	LCH	-9.412	-49.700	-29.41	PASS
	HCH	-4.614	-46.707	-24.61	PASS
11N40SISO	LCH	-6.828	-49.213	-26.83	PASS
	HCH	-7.123	-47.775	-27.12	PASS

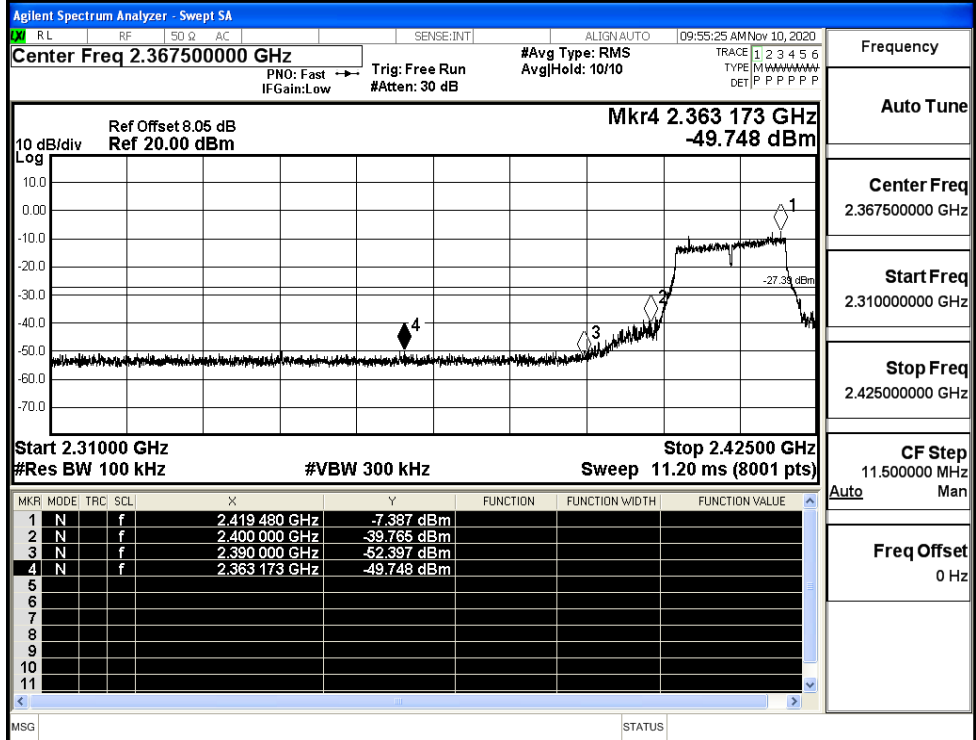




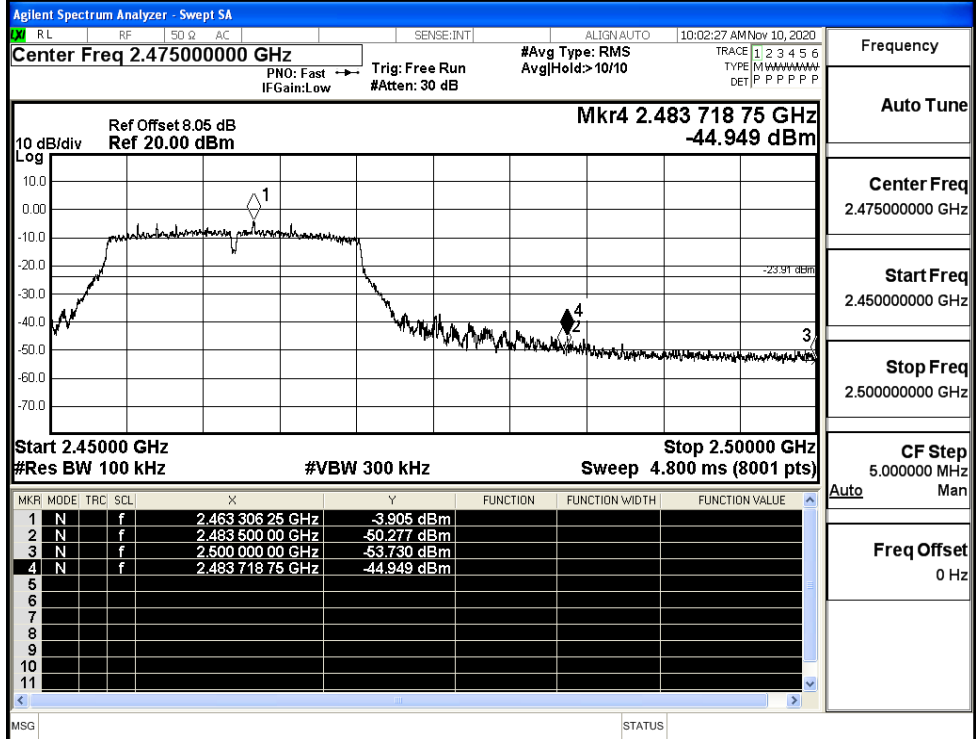
11B/HCH



11G/LCH

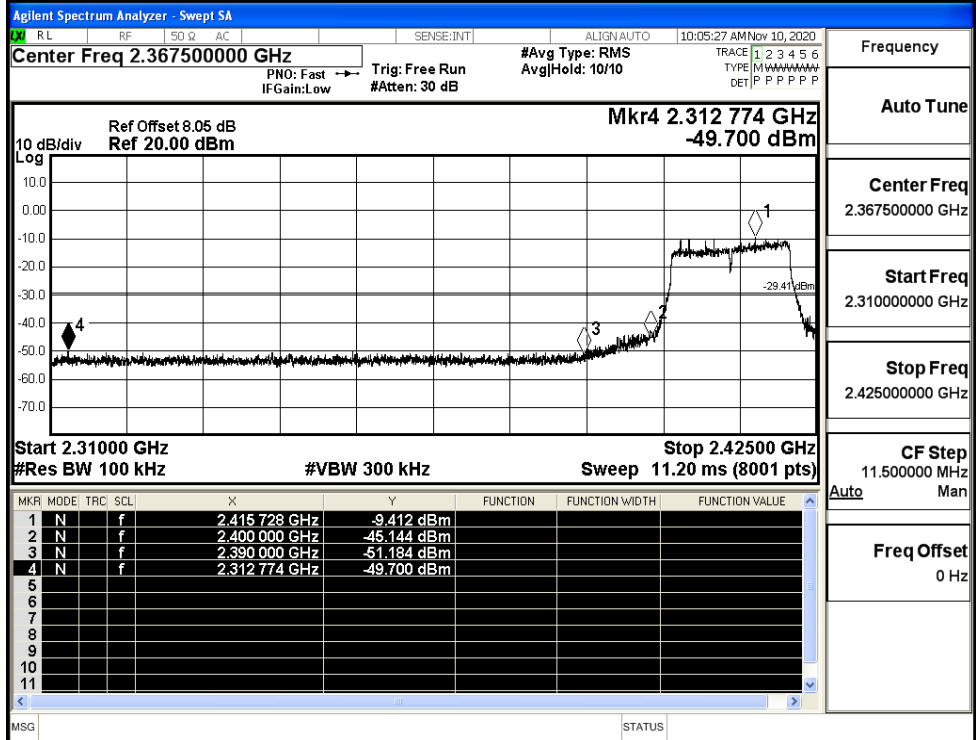


11G/HCH



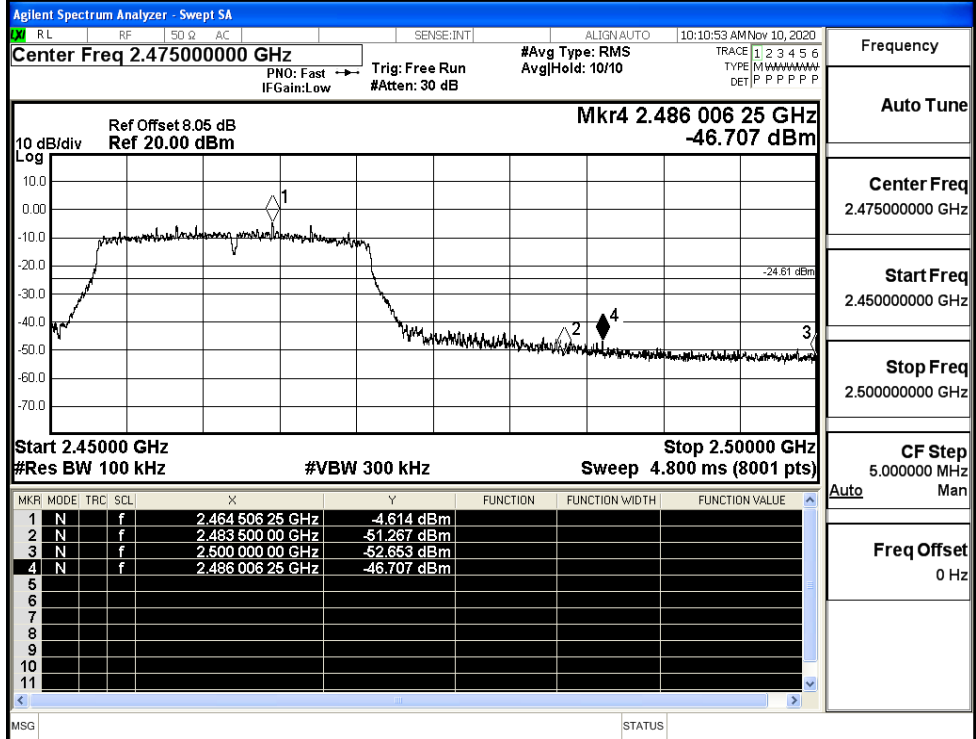
Frequency	2.47500000 GHz
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N20SISO/LCH



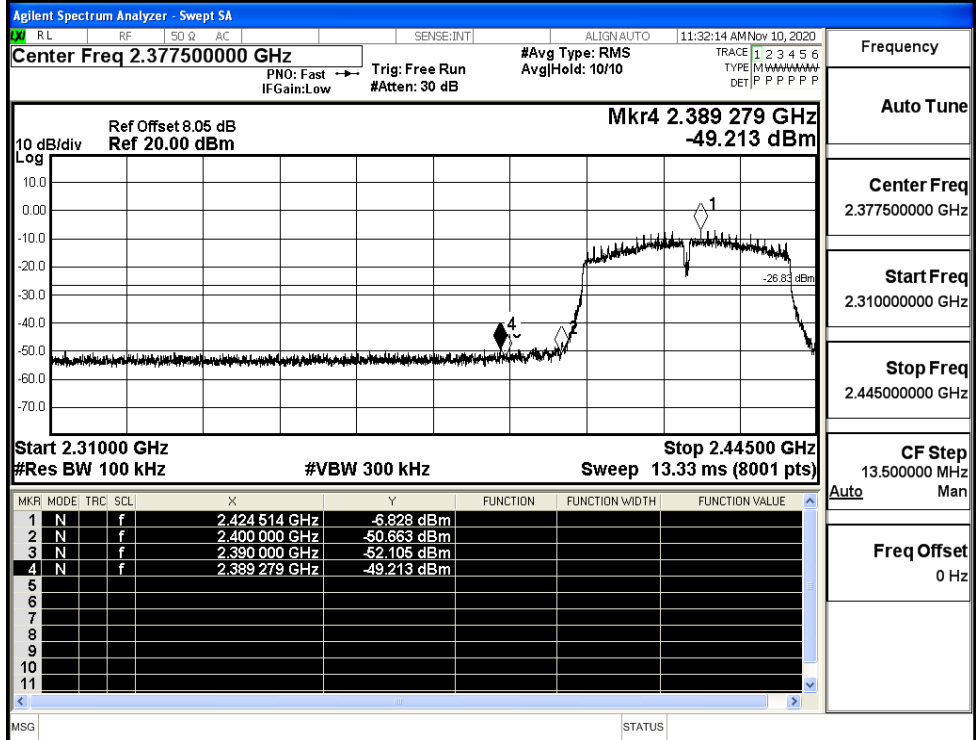
Frequency	2.36750000 GHz
Auto Tune	
Center Freq	2.36750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.42500000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

11N20SISO/HCH



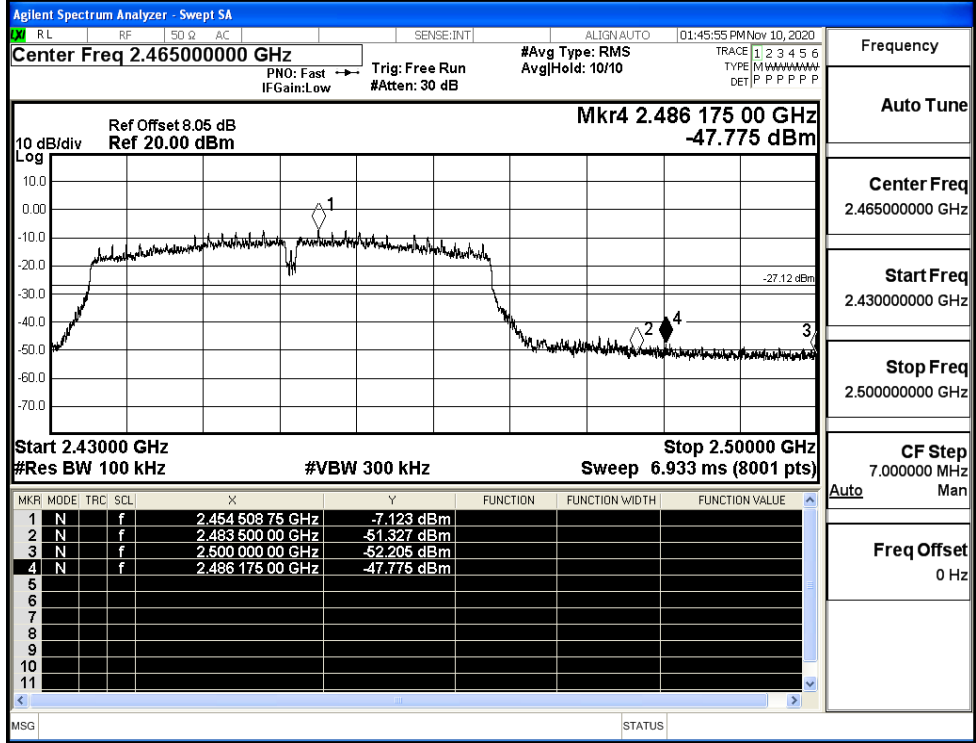
Frequency	2.475000000 GHz
Auto Tune	
Center Freq	2.475000000 GHz
Start Freq	2.450000000 GHz
Stop Freq	2.500000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N40SISO/LCH



Frequency	2.377500000 GHz
Auto Tune	
Center Freq	2.377500000 GHz
Start Freq	2.310000000 GHz
Stop Freq	2.445000000 GHz
CF Step	13.500000 MHz
Freq Offset	0 Hz

11N40SISO/HCH

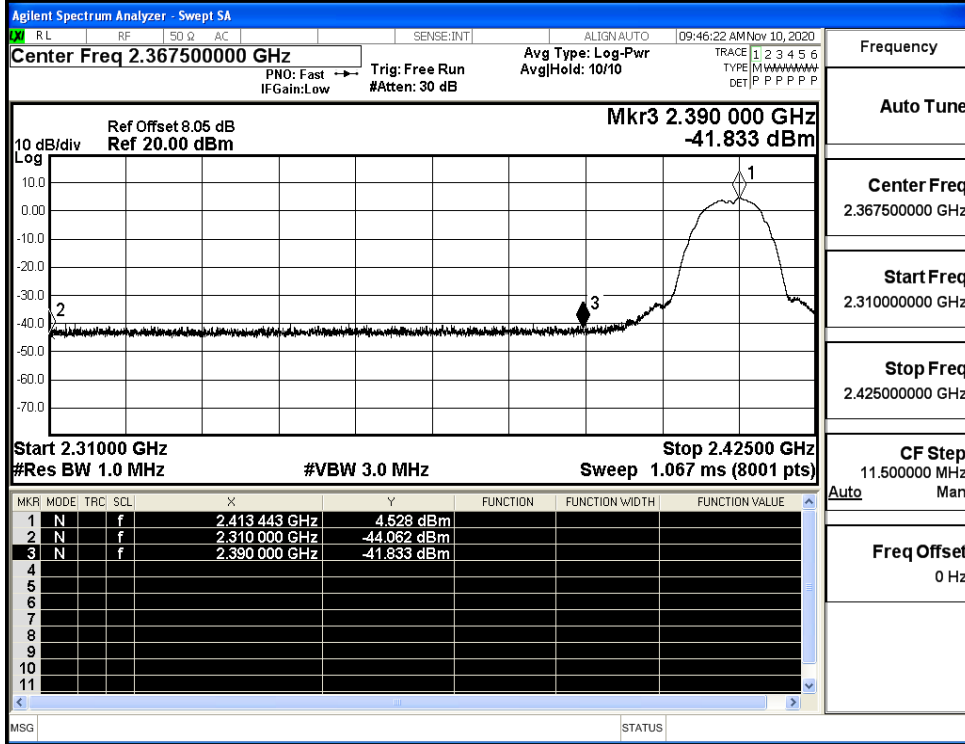


### C.7 Restrict-band band-edge measurements

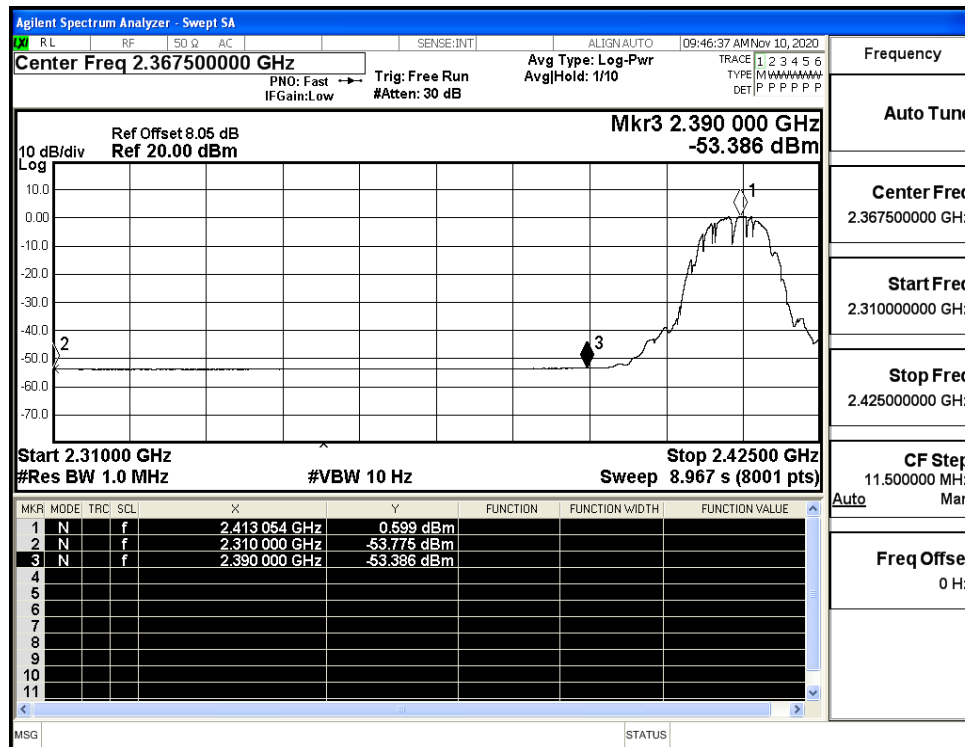
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-44.06	2.0	0	53.20	PEAK	74	PASS
	2412	Ant1	2310.0	-53.78	2.0	0	43.48	AV	54	PASS
	2412	Ant1	2390.0	-41.83	2.0	0	55.42	PEAK	74	PASS
	2412	Ant1	2390.0	-53.39	2.0	0	43.87	AV	54	PASS
	2462	Ant1	2483.5	-41.95	2.0	0	55.30	PEAK	74	PASS
	2462	Ant1	2483.5	-52.83	2.0	0	44.43	AV	54	PASS
	2462	Ant1	2500.0	-42.21	2.0	0	55.05	PEAK	74	PASS
	2462	Ant1	2500.0	-52.77	2.0	0	44.49	AV	54	PASS
11G	2412	Ant1	2310.0	-42.37	2.0	0	54.89	PEAK	74	PASS
	2412	Ant1	2310.0	-53.73	2.0	0	43.53	AV	54	PASS
	2412	Ant1	2390.0	-38.34	2.0	0	58.92	PEAK	74	PASS
	2412	Ant1	2390.0	-52.60	2.0	0	44.66	AV	54	PASS
	2462	Ant1	2483.5	-36.89	2.0	0	60.37	PEAK	74	PASS
	2462	Ant1	2483.5	-50.59	2.0	0	46.67	AV	54	PASS
	2462	Ant1	2500.0	-40.93	2.0	0	56.33	PEAK	74	PASS
	2462	Ant1	2500.0	-52.67	2.0	0	44.59	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.43	2.0	0	54.82	PEAK	74	PASS
	2412	Ant1	2310.0	-53.59	2.0	0	43.67	AV	54	PASS
	2412	Ant1	2390.0	-38.61	2.0	0	58.65	PEAK	74	PASS
	2412	Ant1	2390.0	-52.49	2.0	0	44.77	AV	54	PASS
	2462	Ant1	2483.5	-36.17	2.0	0	61.08	PEAK	74	PASS
	2462	Ant1	2483.5	-50.65	2.0	0	46.61	AV	54	PASS
	2462	Ant1	2500.0	-42.96	2.0	0	54.3	PEAK	74	PASS
	2462	Ant1	2500.0	-52.65	2.0	0	44.61	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-41.90	2.0	0	55.35	PEAK	74	PASS
	2422	Ant1	2310.0	-53.44	2.0	0	43.81	AV	54	PASS

	2422	Ant1	2390.0	-41.53	2.0	0	55.73	PEAK	74	PASS
	2422	Ant1	2390.0	-52.06	2.0	0	45.20	AV	54	PASS
	2452	Ant1	2483.5	-39.03	2.0	0	58.23	PEAK	74	PASS
	2452	Ant1	2483.5	-50.62	2.0	0	46.64	AV	54	PASS
	2452	Ant1	2500.0	-41.25	2.0	0	56.01	PEAK	74	PASS
	2452	Ant1	2500.0	-51.98	2.0	0	45.28	AV	54	PASS

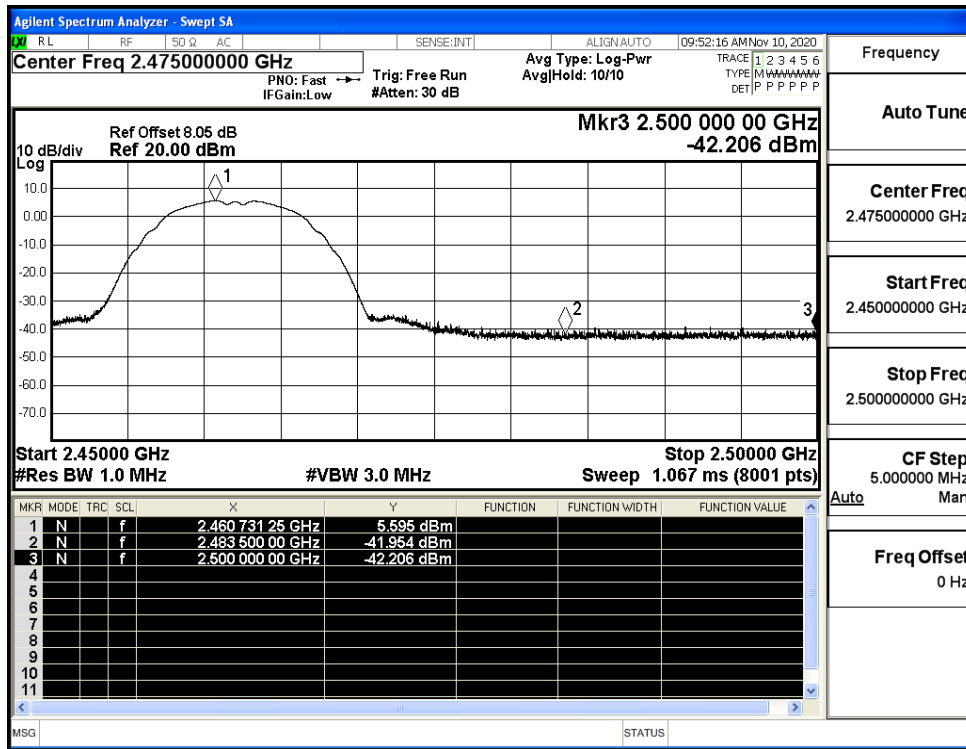
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_PEAK



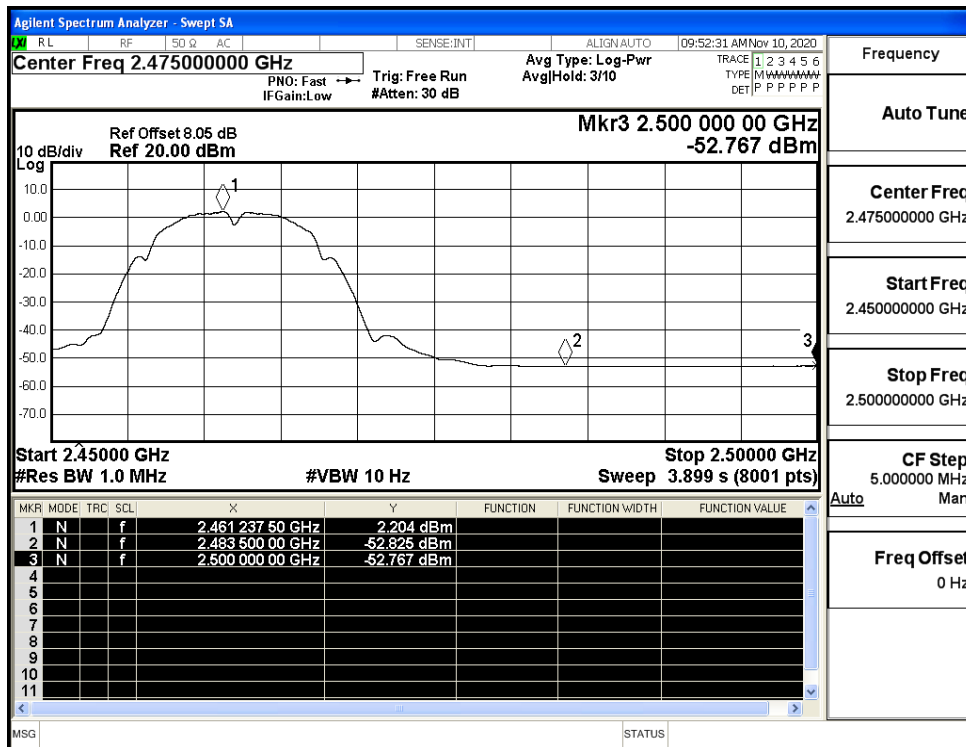
Restrict-band band-edge measurements\_11B\_2412\_Ant1\_AV



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

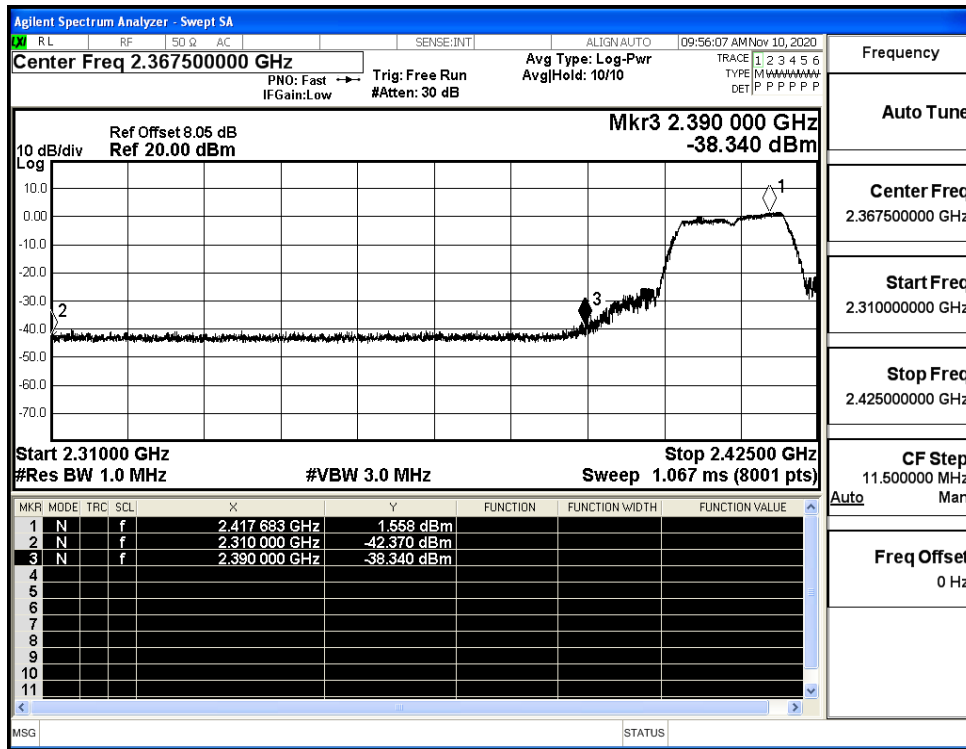


Restrict-band band-edge measurements\_11B\_2462\_Ant1\_AV

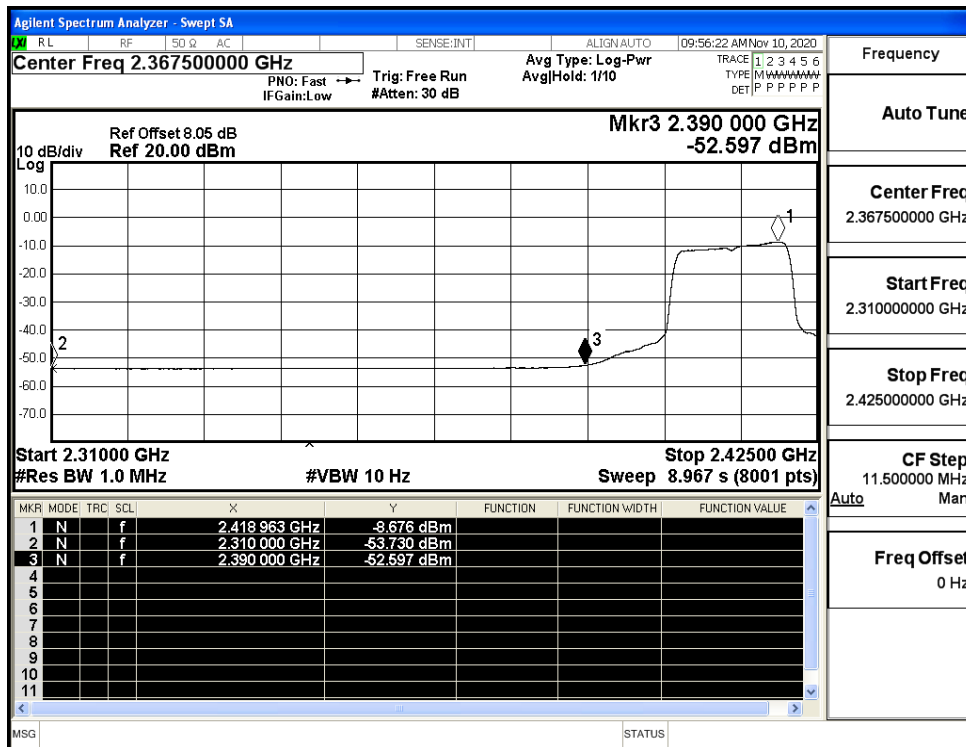




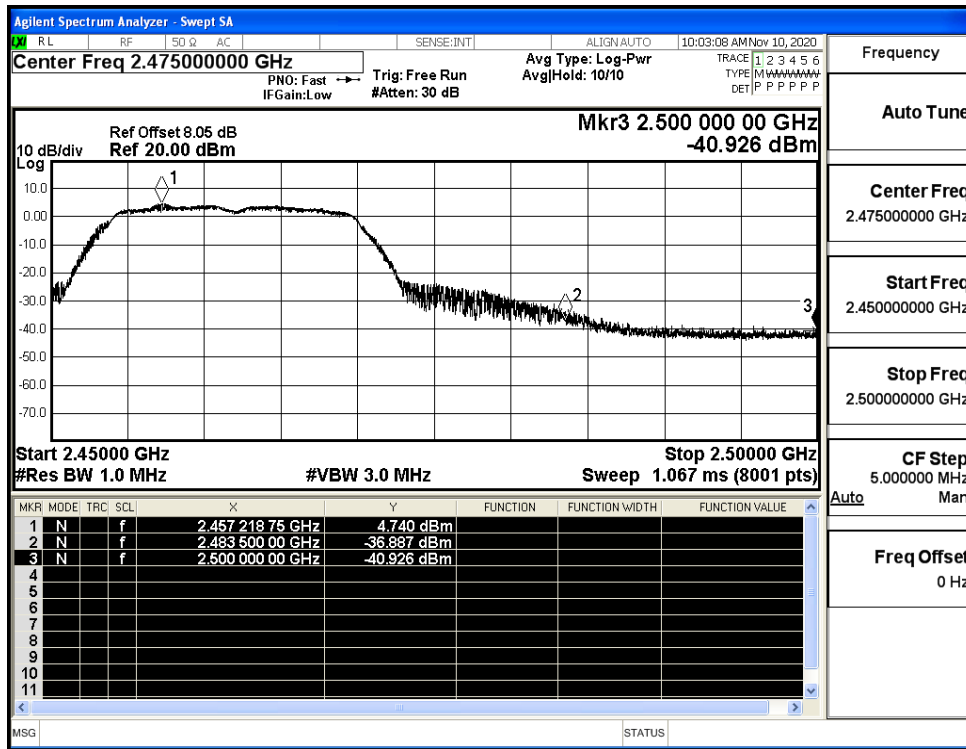
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_PEAK



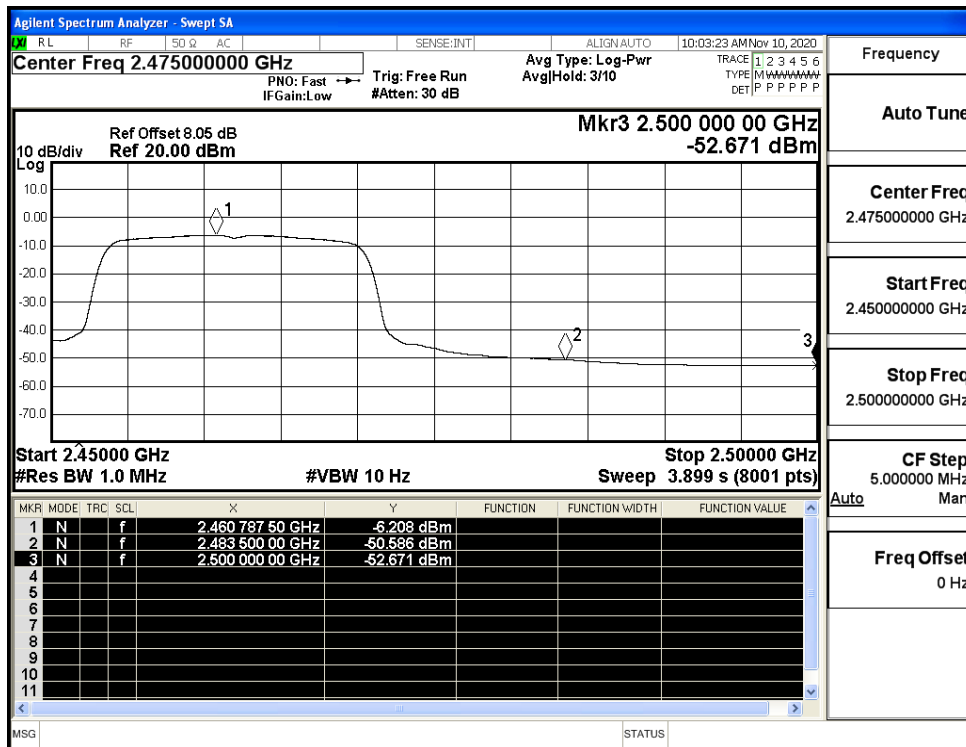
Restrict-band band-edge measurements\_11G\_2412\_Ant1\_AV



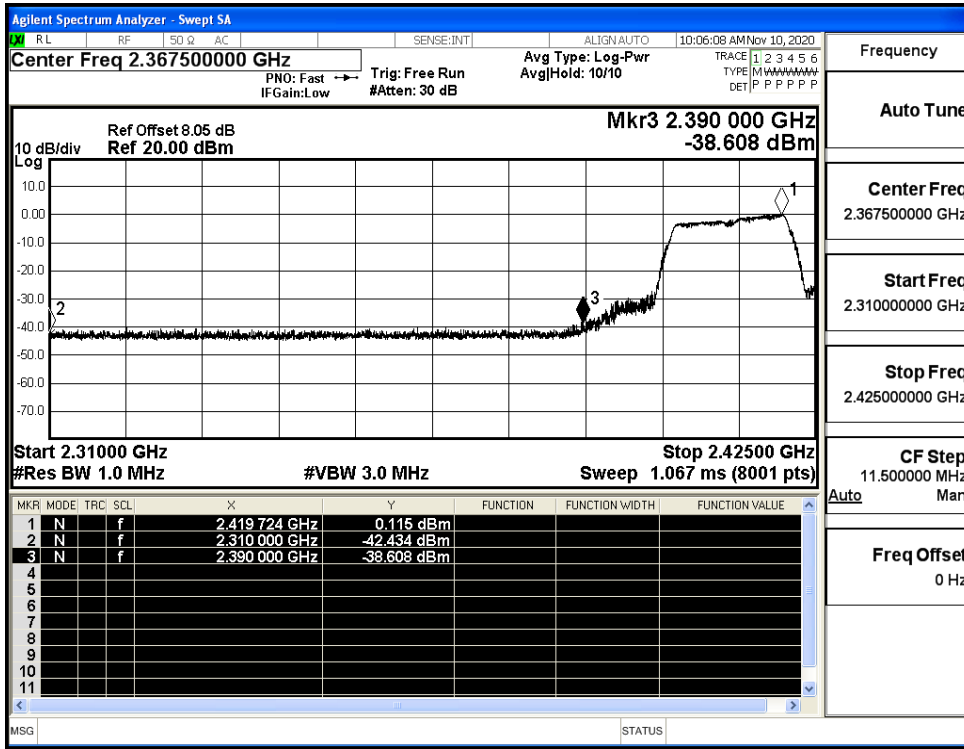
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_PEAK



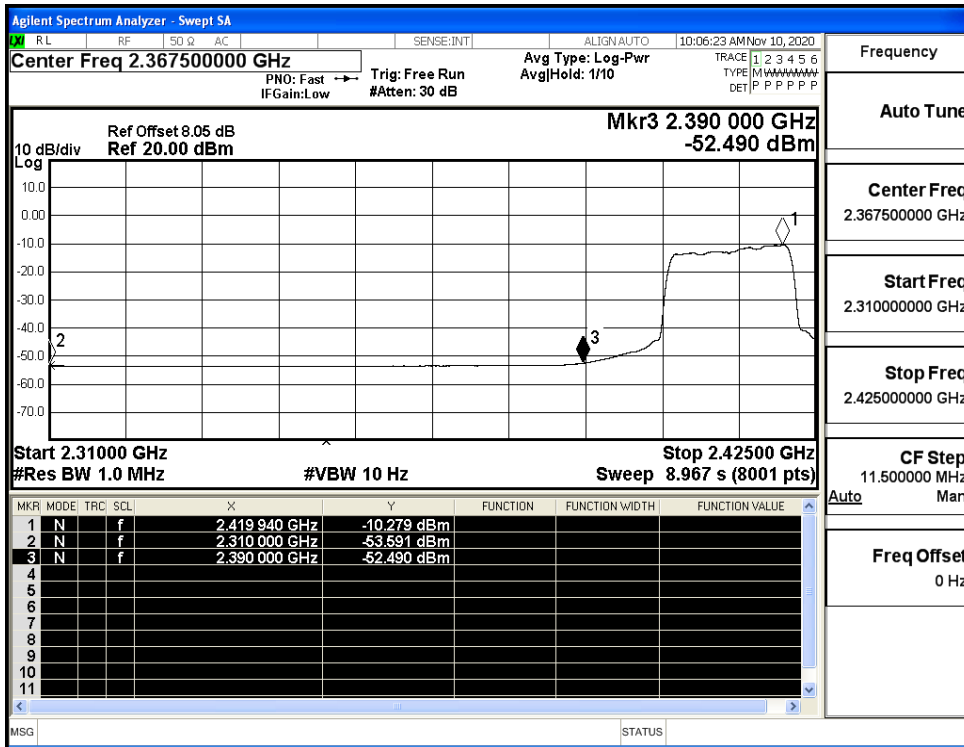
Restrict-band band-edge measurements\_11G\_2462\_Ant1\_AV



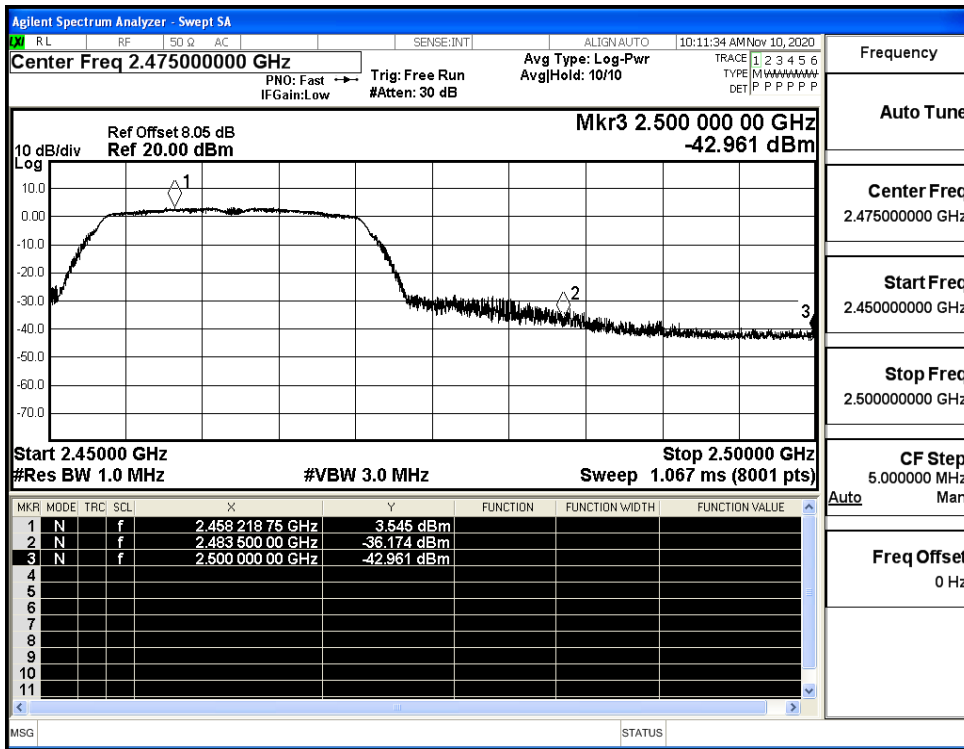
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_PEAK



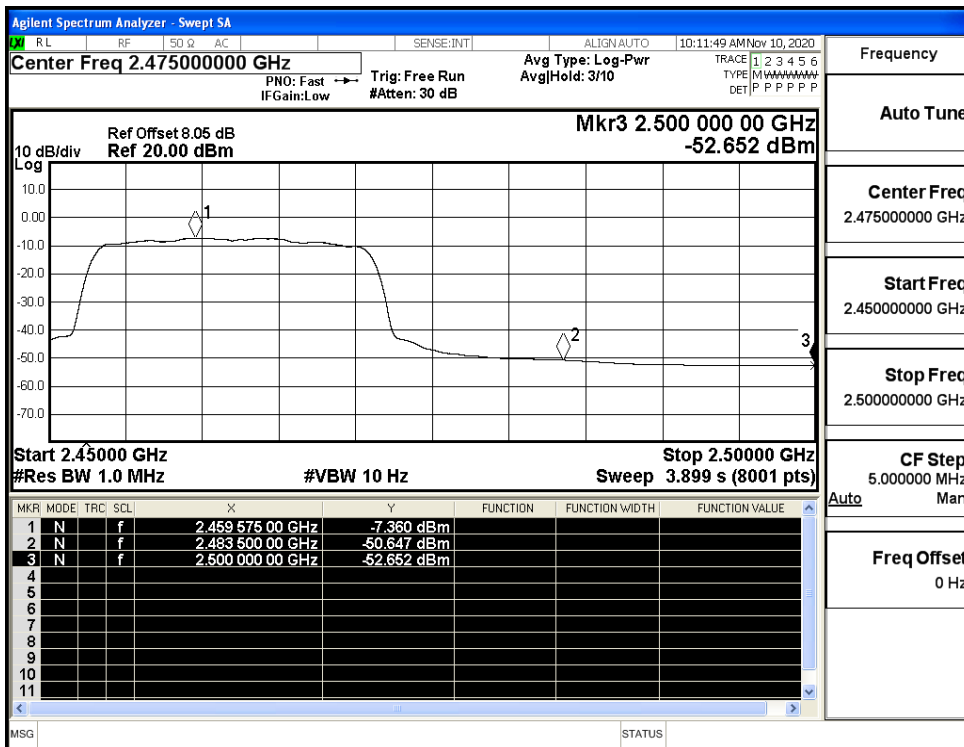
Restrict-band band-edge measurements\_11N20SISO\_2412\_Ant1\_AV



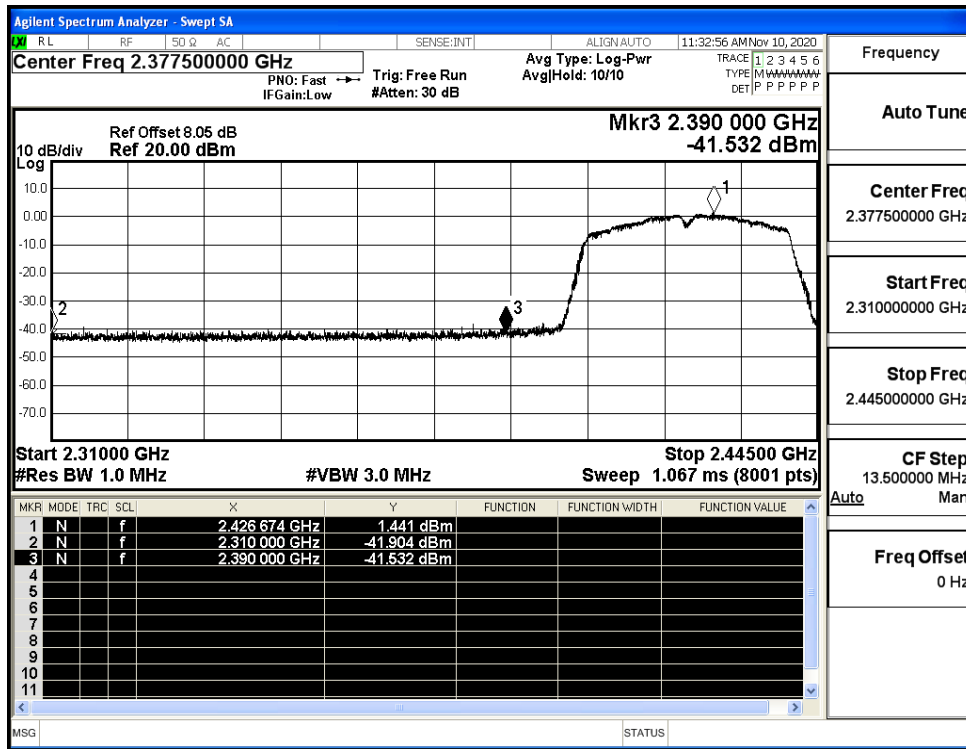
Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_PEAK



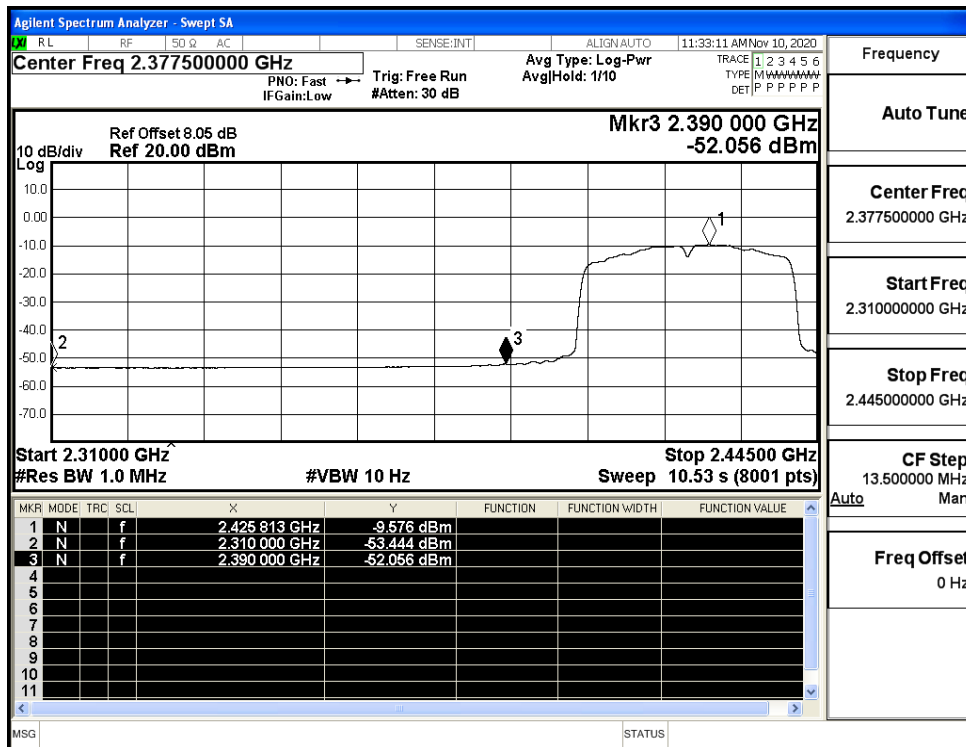
Restrict-band band-edge measurements\_11N20SISO\_2462\_Ant1\_AV



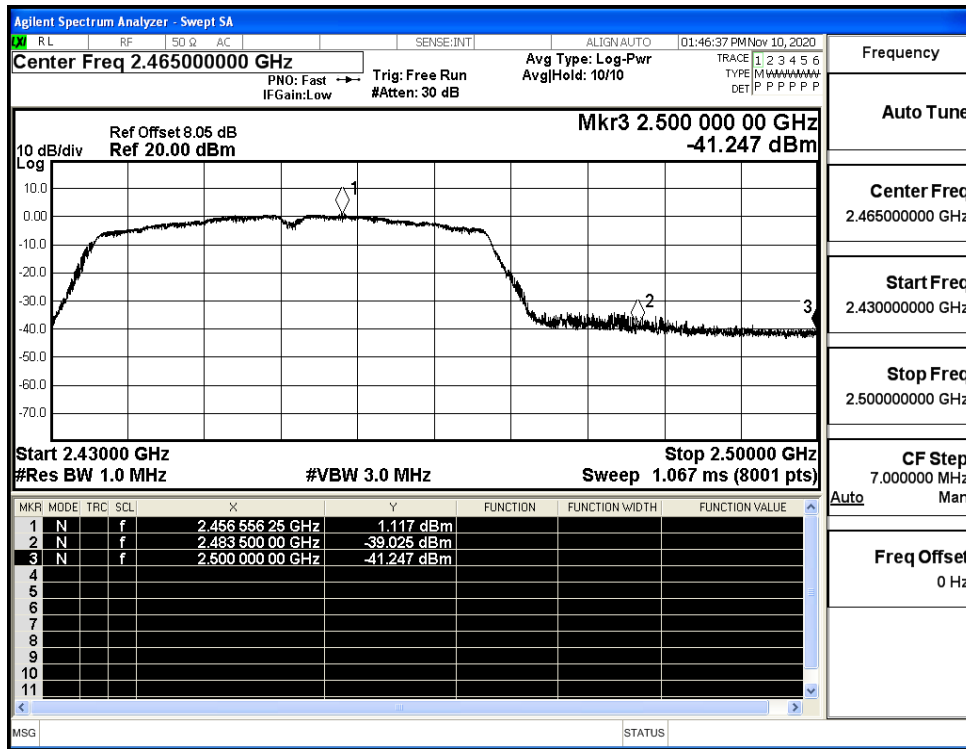
Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_PEAK



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

