

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Tablet PC



Trade Mark:

Test Model: DT1052

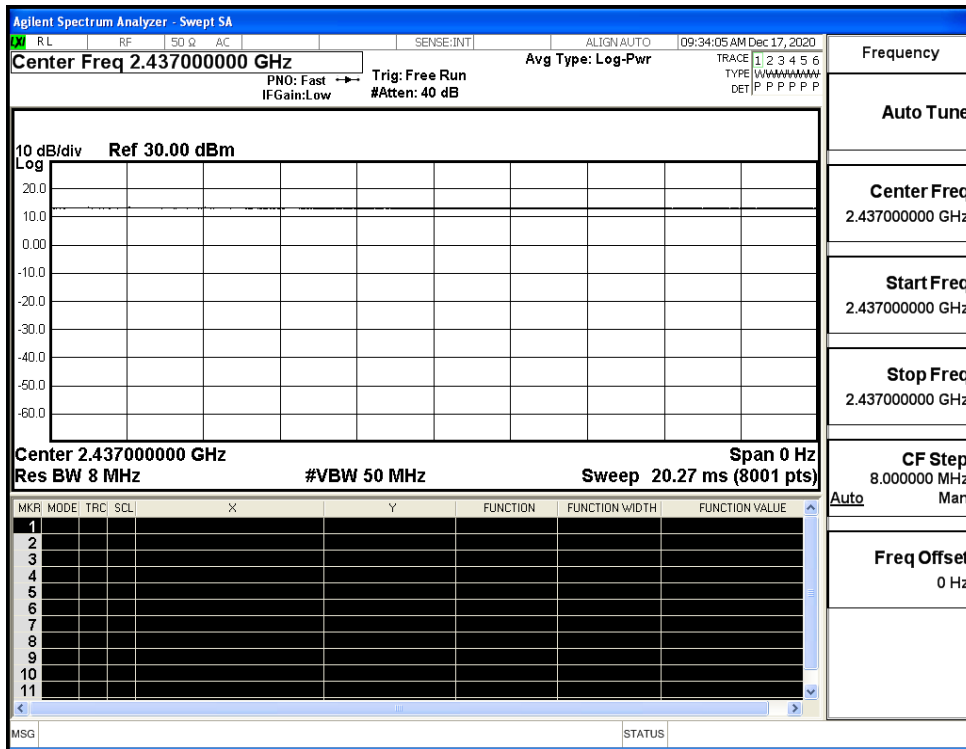
Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

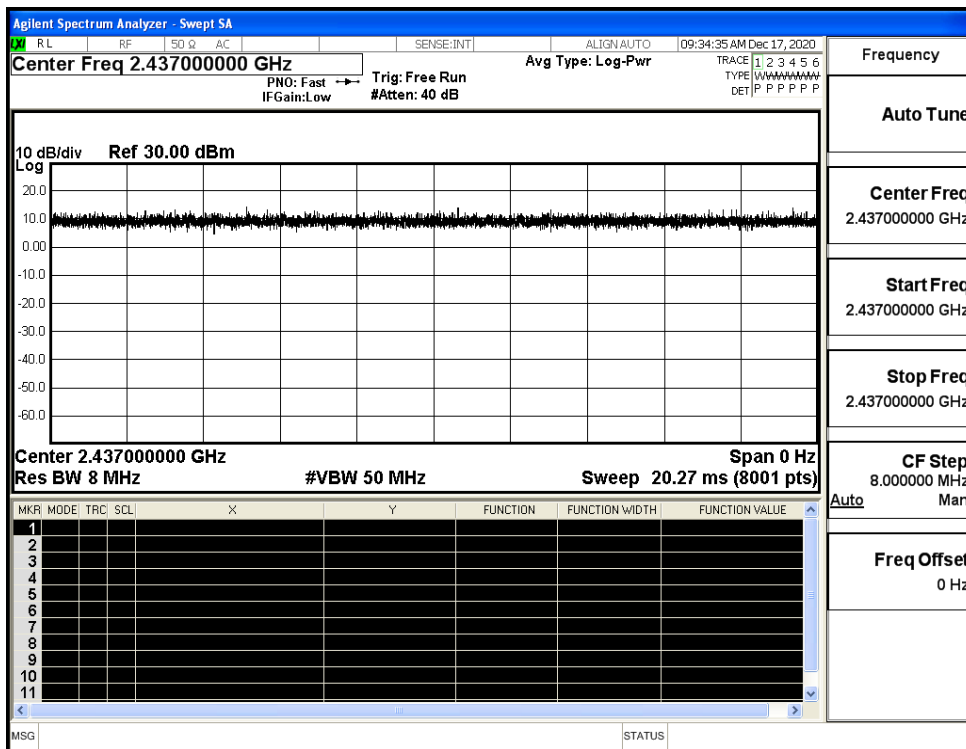
C.1 Duty Cycle

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

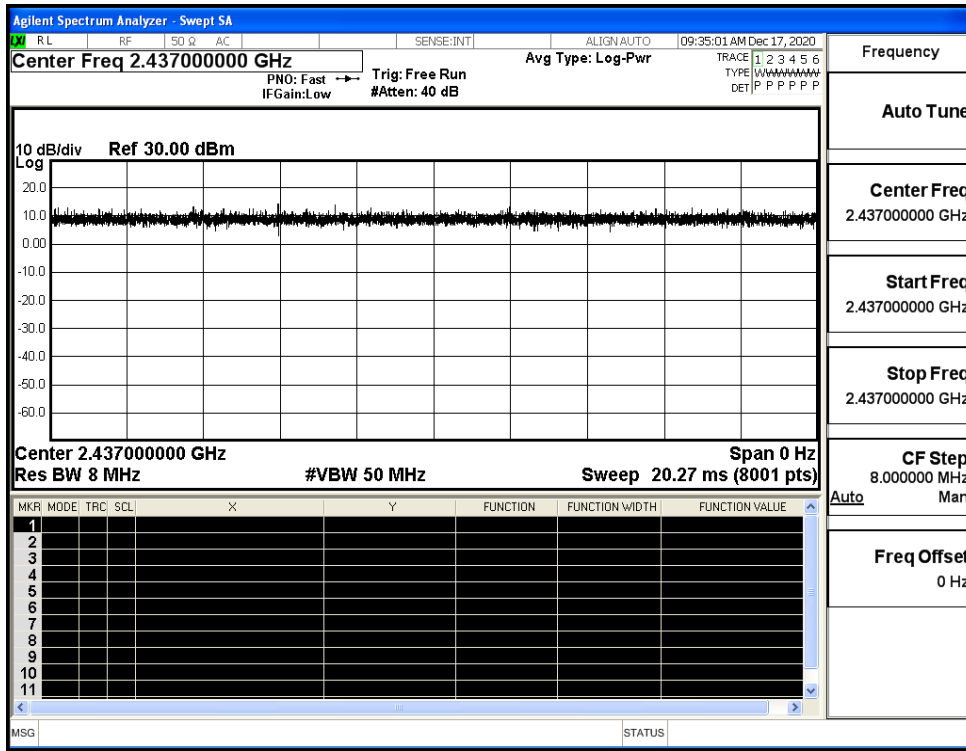
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1

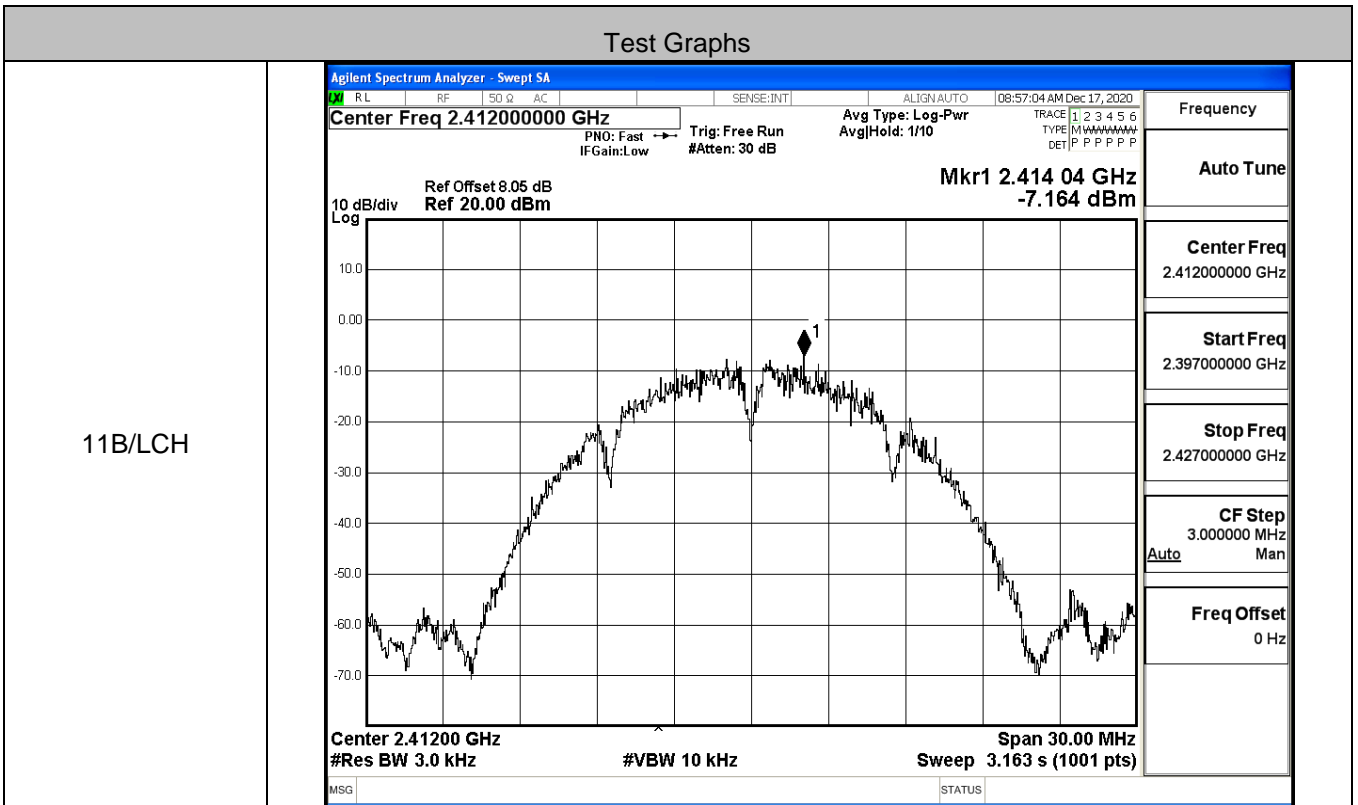


C.2 Maximum Conducted Output Power

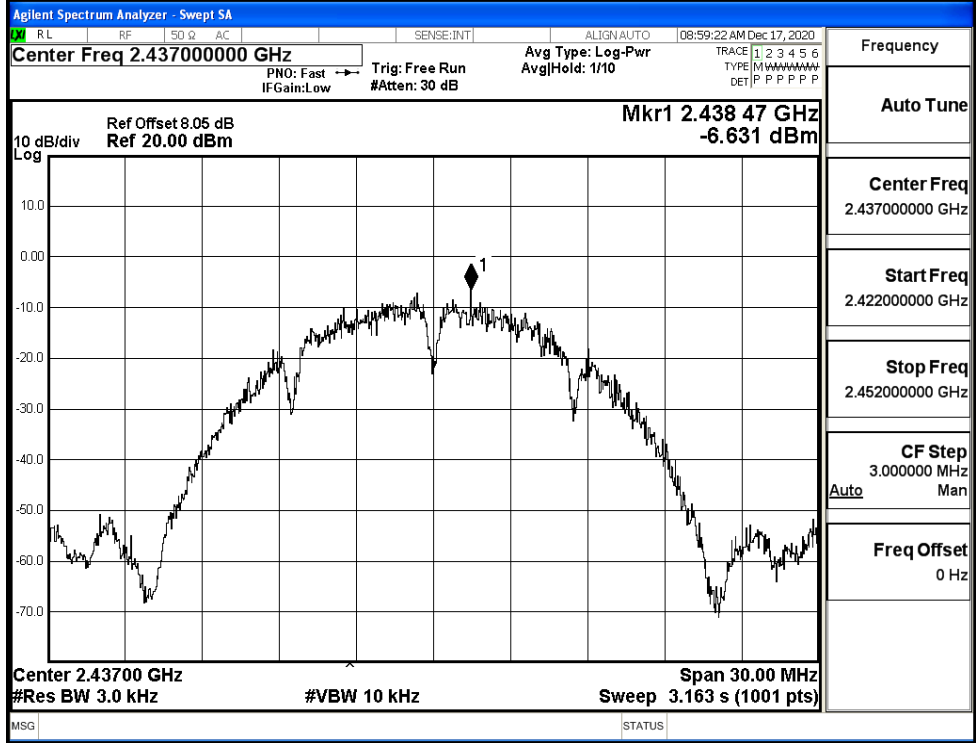
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	18.34	30	PASS
	MCH	18.58	30	PASS
	HCH	18.44	30	PASS
11G	LCH	17.89	30	PASS
	MCH	18.45	30	PASS
	HCH	17.89	30	PASS
11N20SISO	LCH	17.81	30	PASS
	MCH	19.86	30	PASS
	HCH	17.89	30	PASS

C.3 Maximum Power Spectral Density

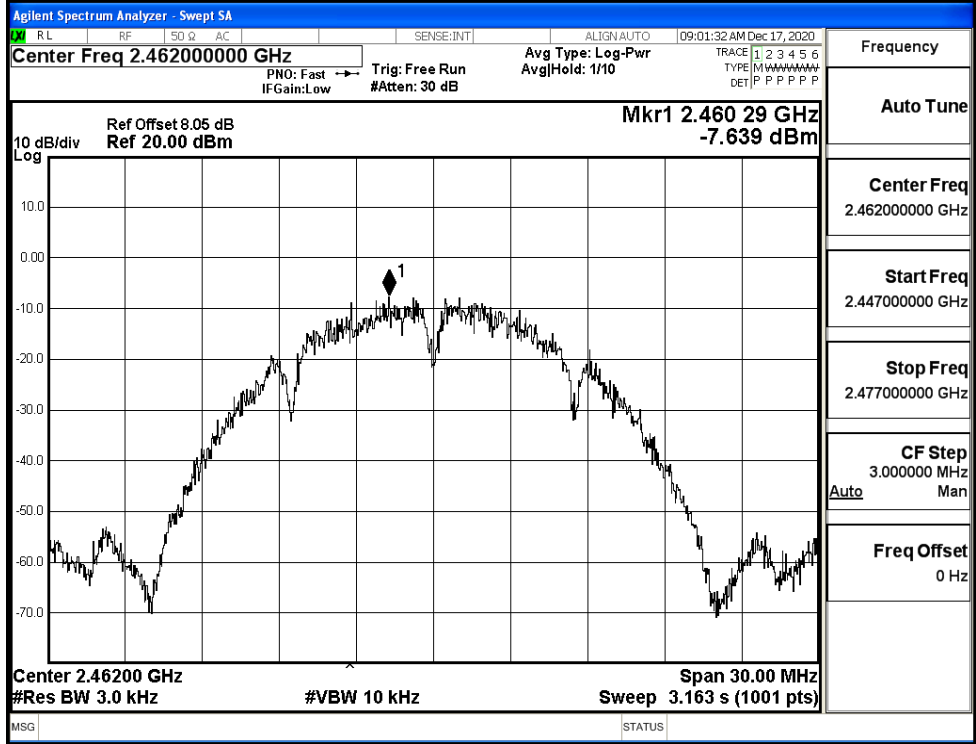
Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-7.164	8	PASS
	MCH	-6.631	8	PASS
	HCH	-7.639	8	PASS
11G	LCH	-15.056	8	PASS
	MCH	-15.850	8	PASS
	HCH	-14.892	8	PASS
11N20SISO	LCH	-15.800	8	PASS
	MCH	-11.962	8	PASS
	HCH	-15.392	8	PASS



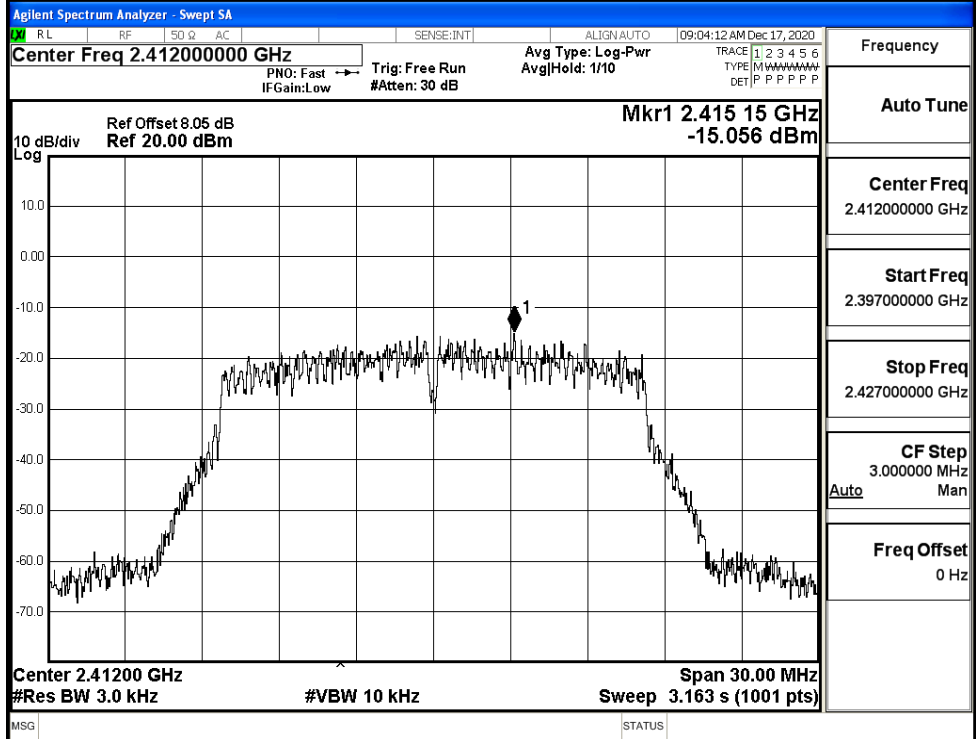
11B/MCH



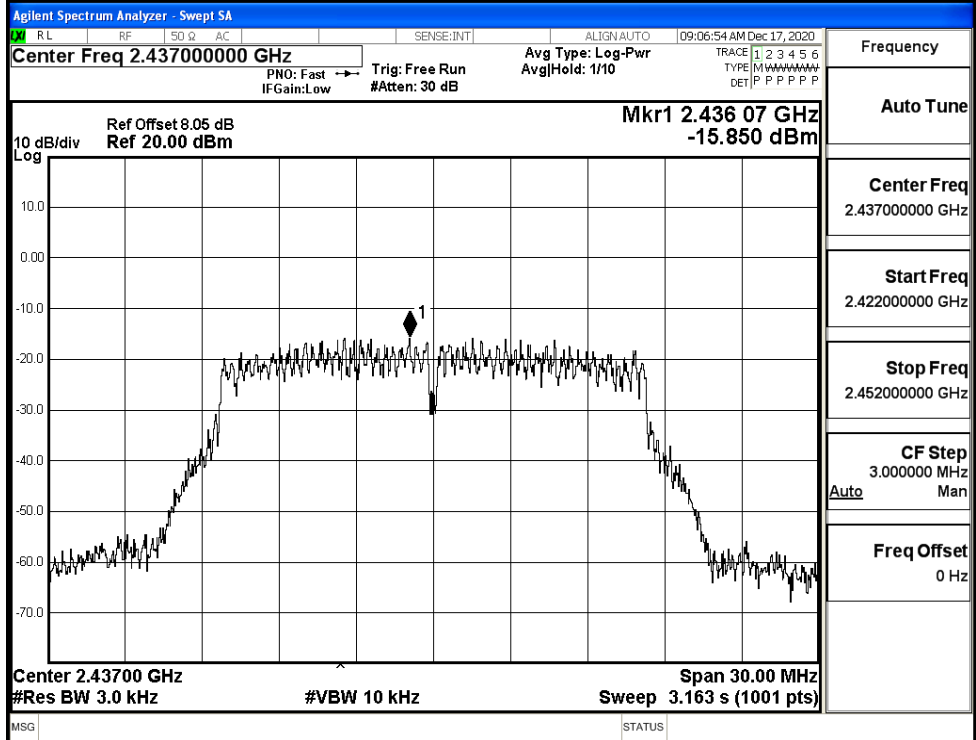
11B/HCH



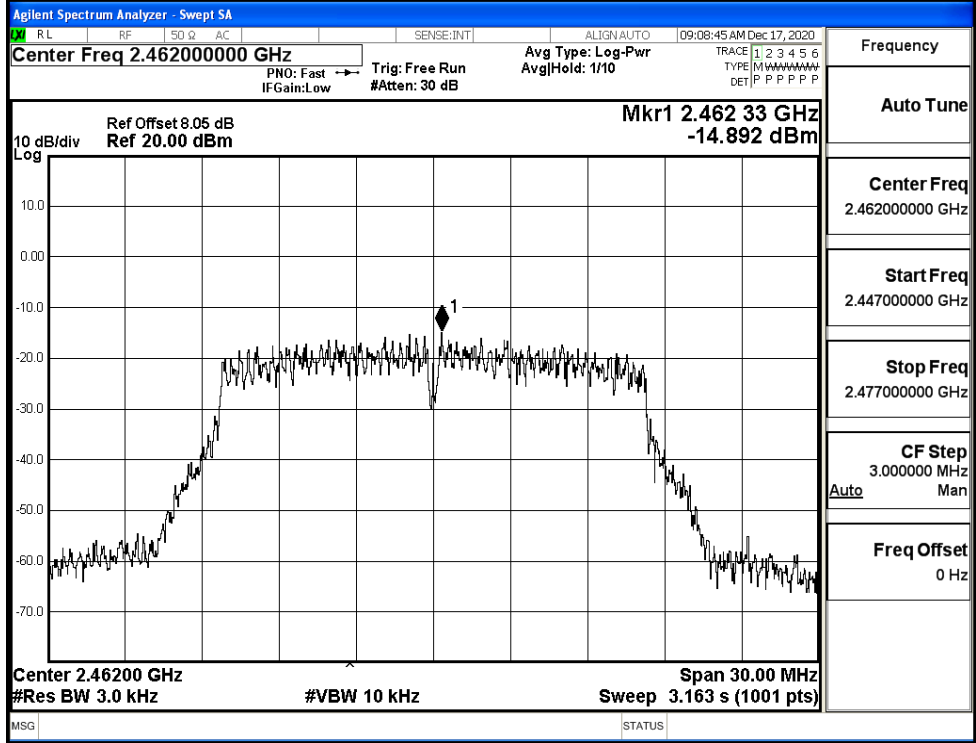
11G/LCH



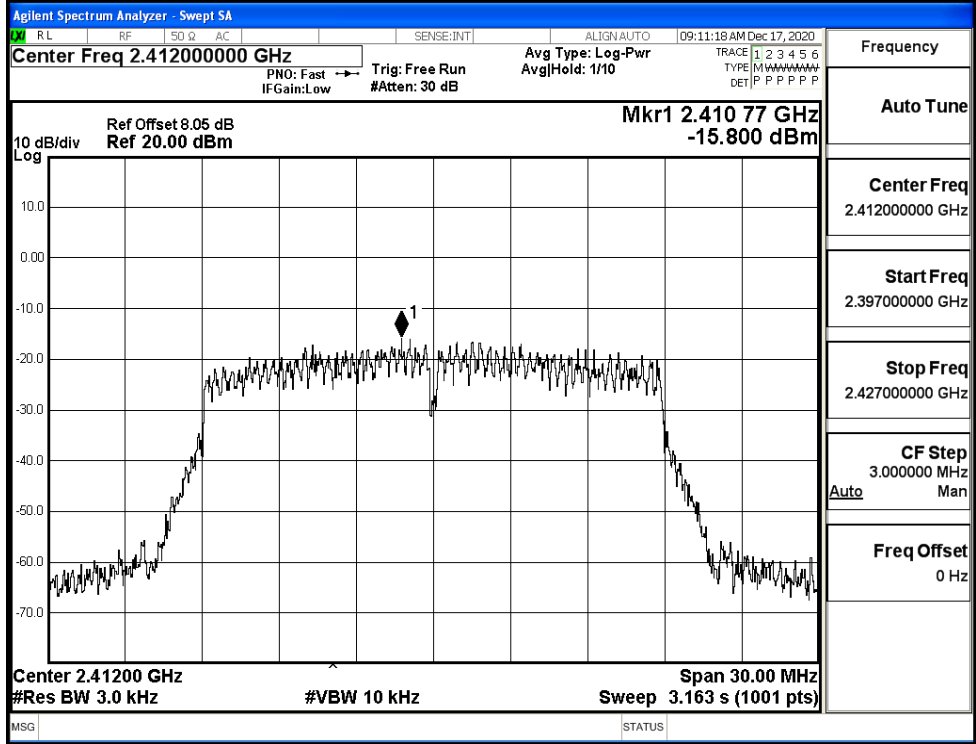
11G/MCH



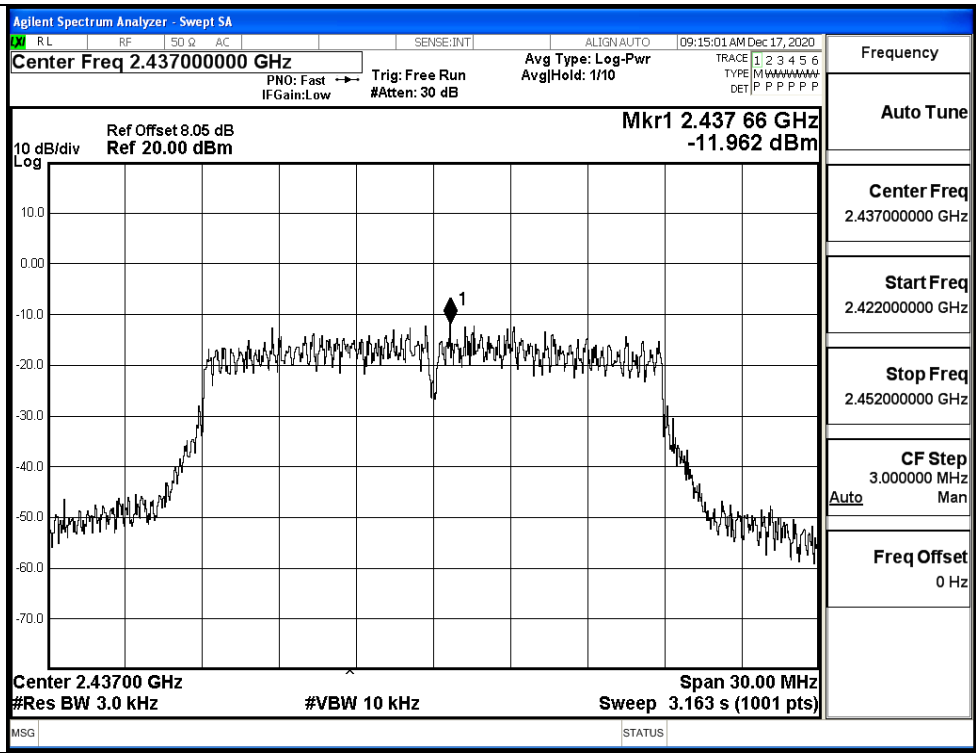
11G/HCH



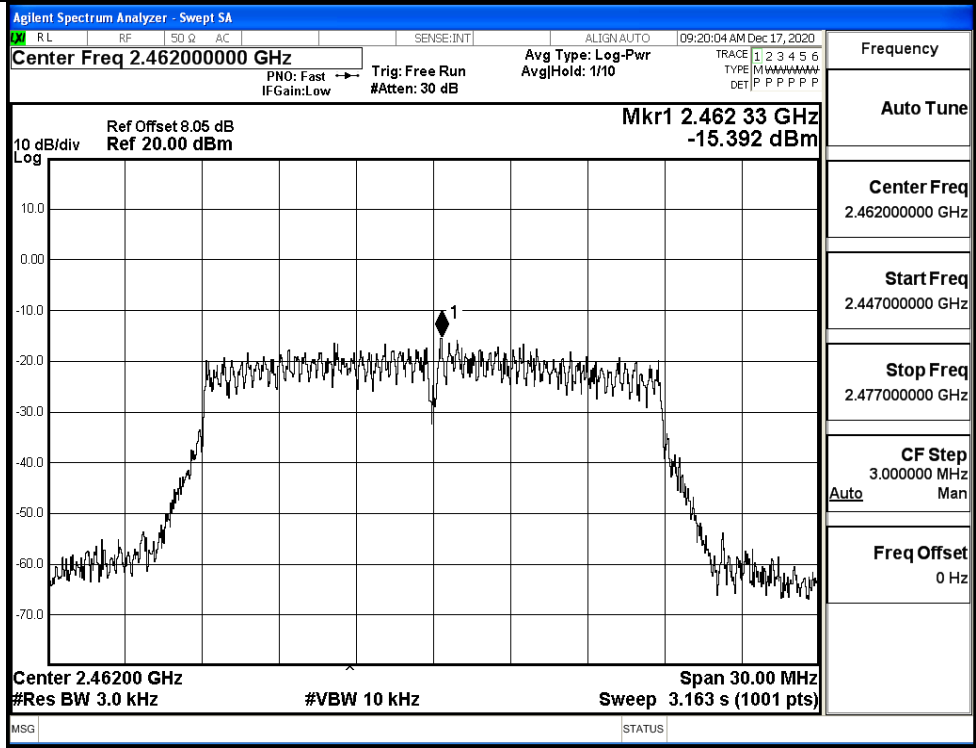
11N20SISO/LCH



11N20SISO/MCH

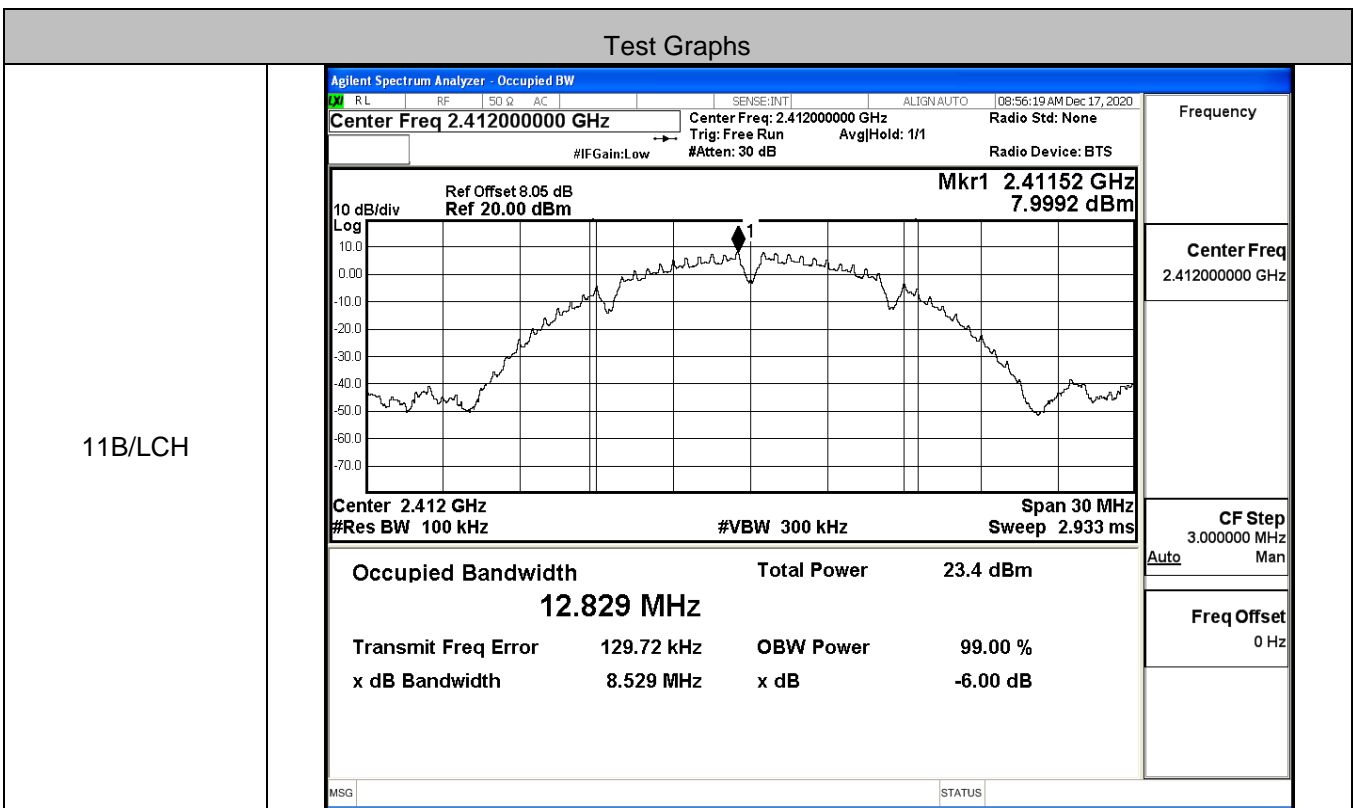


11N20SISO/HCH

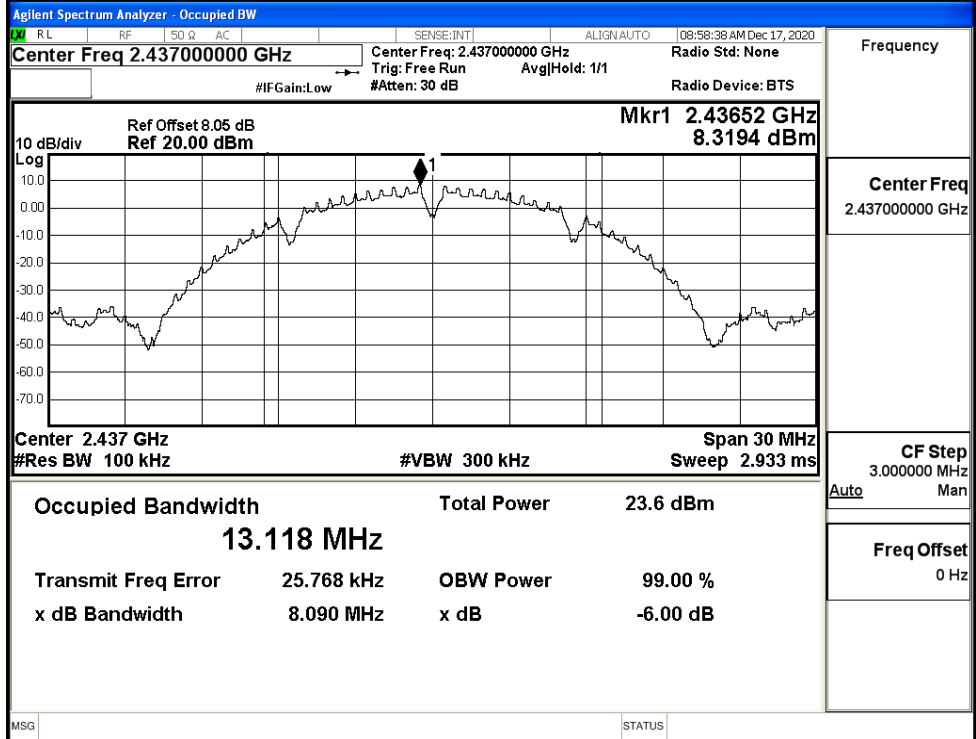


C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.529	≥0.5	PASS
	MCH	8.090	≥0.5	PASS
	HCH	8.060	≥0.5	PASS
11G	LCH	16.09	≥0.5	PASS
	MCH	16.47	≥0.5	PASS
	HCH	16.35	≥0.5	PASS
11N20SISO	LCH	17.31	≥0.5	PASS
	MCH	17.65	≥0.5	PASS
	HCH	17.61	≥0.5	PASS



11B/MCH



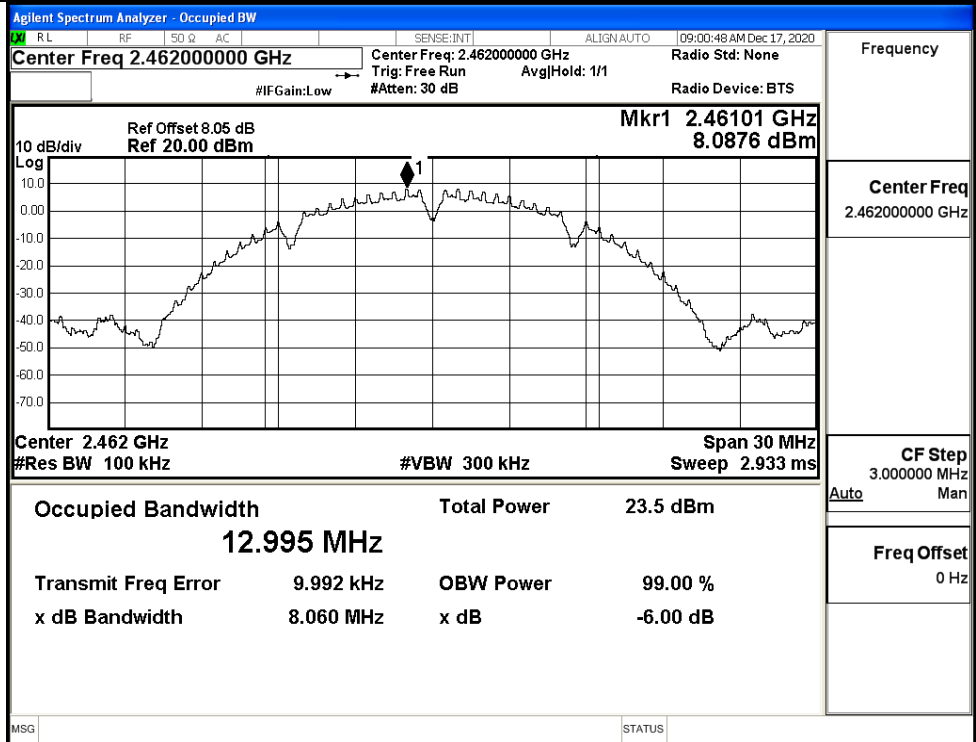
Frequency

Center Freq
2.43700000 GHz

CF Step
3.000000 MHz

Freq Offset
0 Hz

11B/HCH



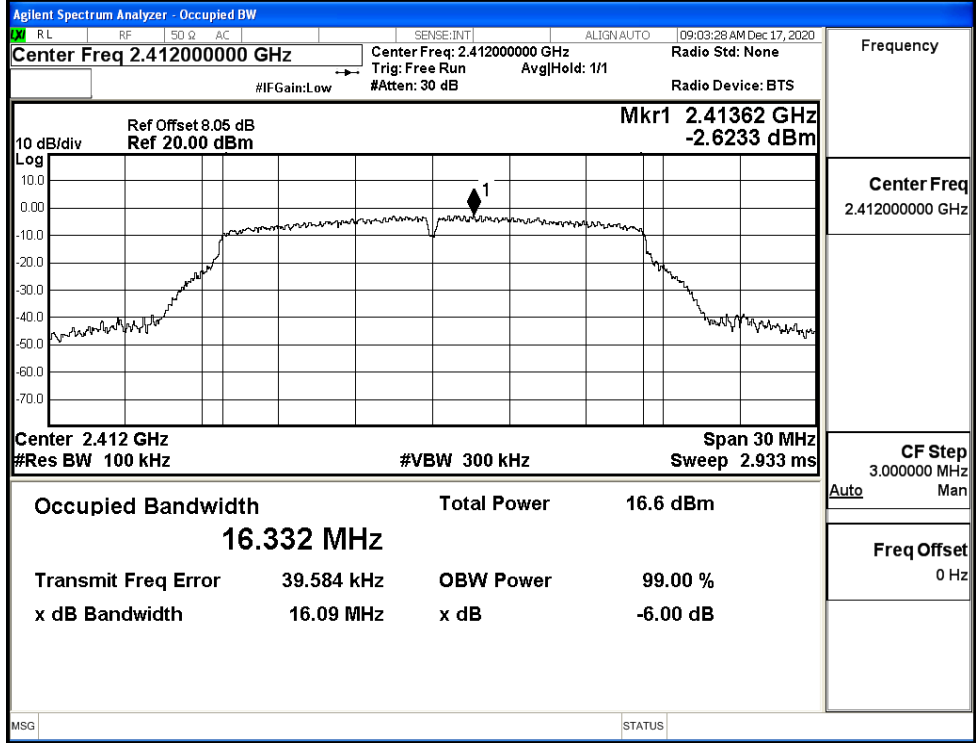
Frequency

Center Freq
2.46200000 GHz

CF Step
3.000000 MHz

Freq Offset
0 Hz

11G/LCH

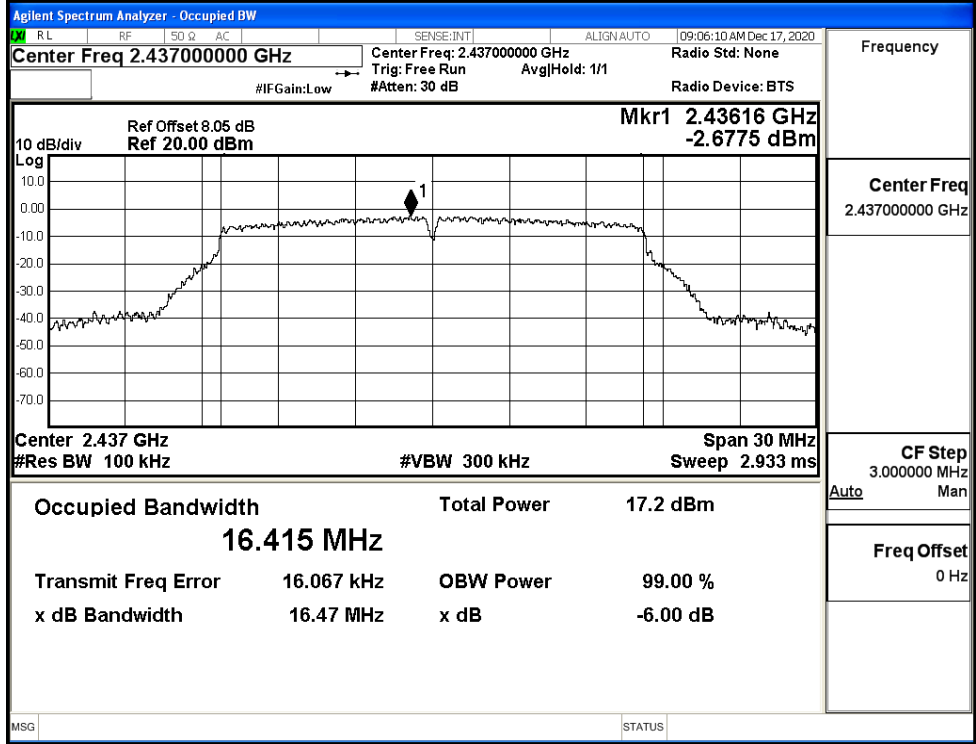


Frequency
2.41200000 GHz

CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11G/MCH

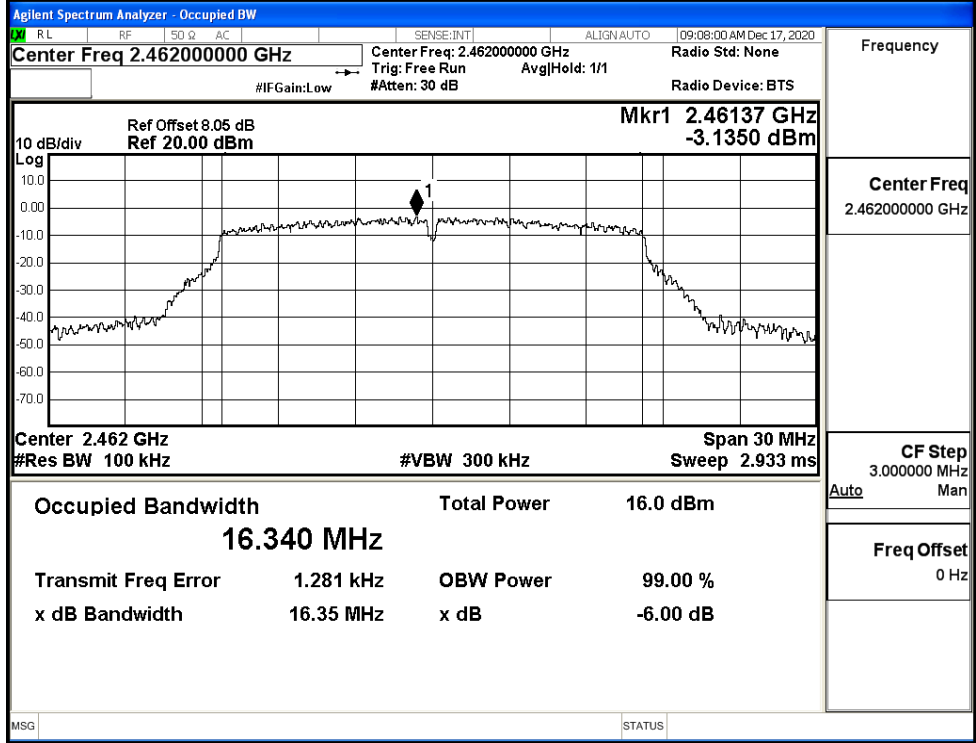


Frequency
2.43700000 GHz

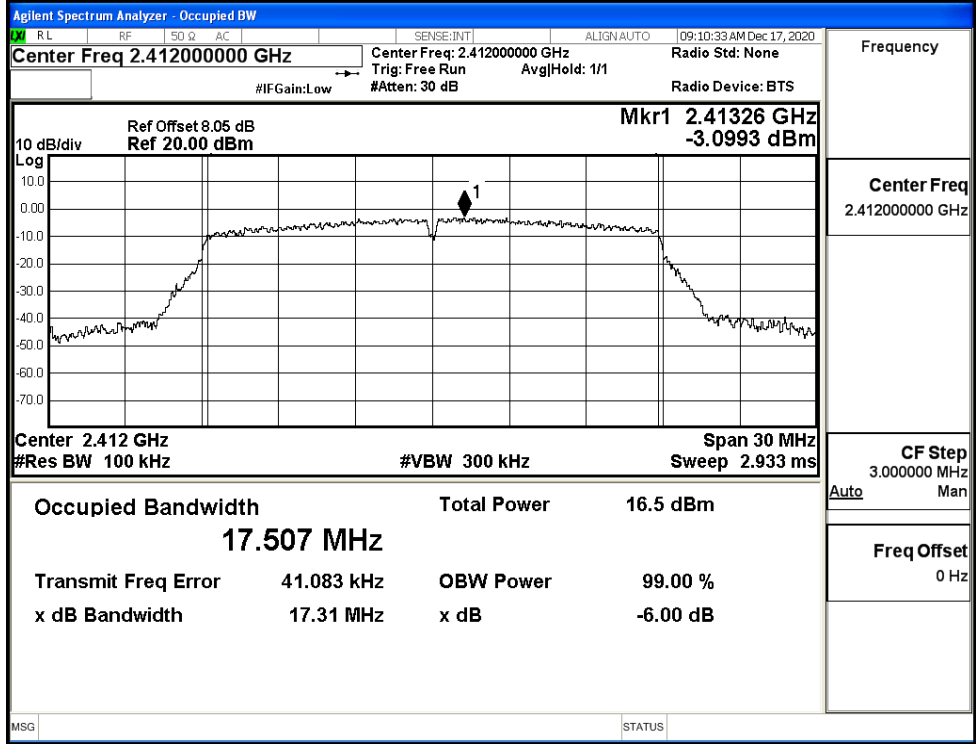
CF Step
3.000000 MHz
Auto Man

Freq Offset
0 Hz

11G/HCH



11N20SISO/LCH



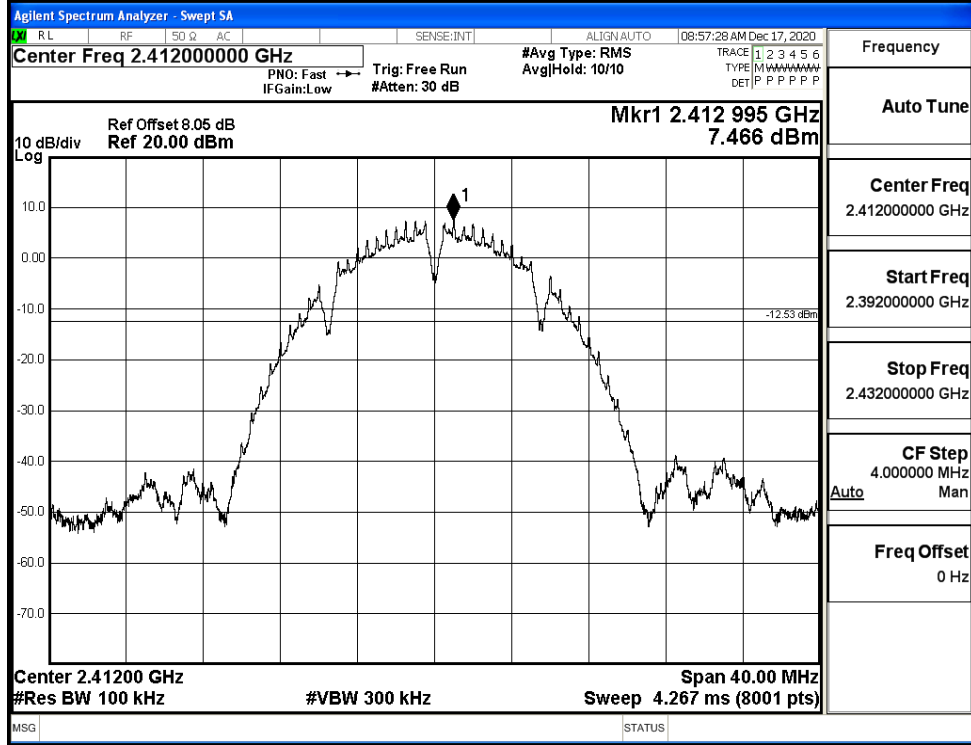
<p>11N20SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB</p> <p>Align: AUTO Radio Std: None Radio Device: BTS</p> <p>Ref Offset 8.05 dB Ref 20.00 dBm</p> <p>Mkr1 2.43412 GHz 0.72469 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.622 MHz Total Power 20.5 dBm</p> <p>Transmit Freq Error 14.031 kHz OBW Power 99.00 % x dB Bandwidth 17.65 MHz x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq 2.43700000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
	<p>11N20SISO/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.46200000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB</p> <p>Align: AUTO Radio Std: None Radio Device: BTS</p> <p>Ref Offset 8.05 dB Ref 20.00 dBm</p> <p>Mkr1 2.46407 GHz -3.1005 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth 17.544 MHz Total Power 16.6 dBm</p> <p>Transmit Freq Error 1.852 kHz OBW Power 99.00 % x dB Bandwidth 17.61 MHz x dB -6.00 dB</p>

C.5 RF Conducted Spurious Emissions

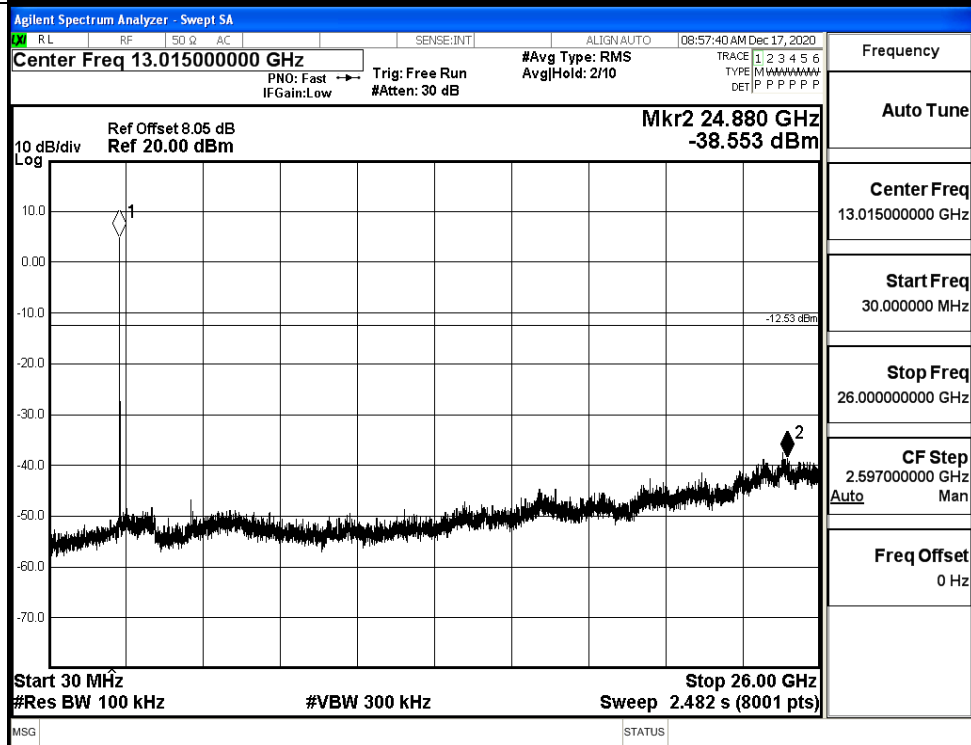
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	7.466	-38.553	-12.534	PASS
	MCH	7.517	-38.459	-12.483	PASS
	HCH	8.096	-37.566	-11.904	PASS
11G	LCH	-2.587	-38.641	-22.587	PASS
	MCH	-2.993	-38.792	-22.993	PASS
	HCH	-2.755	-38.104	-22.755	PASS
11N20 SISO	LCH	-2.841	-36.383	-22.841	PASS
	MCH	0.352	-37.177	-19.648	PASS
	HCH	-3.336	-37.477	-23.336	PASS

11B_LCH_Graphs

Pref/11B/LCH

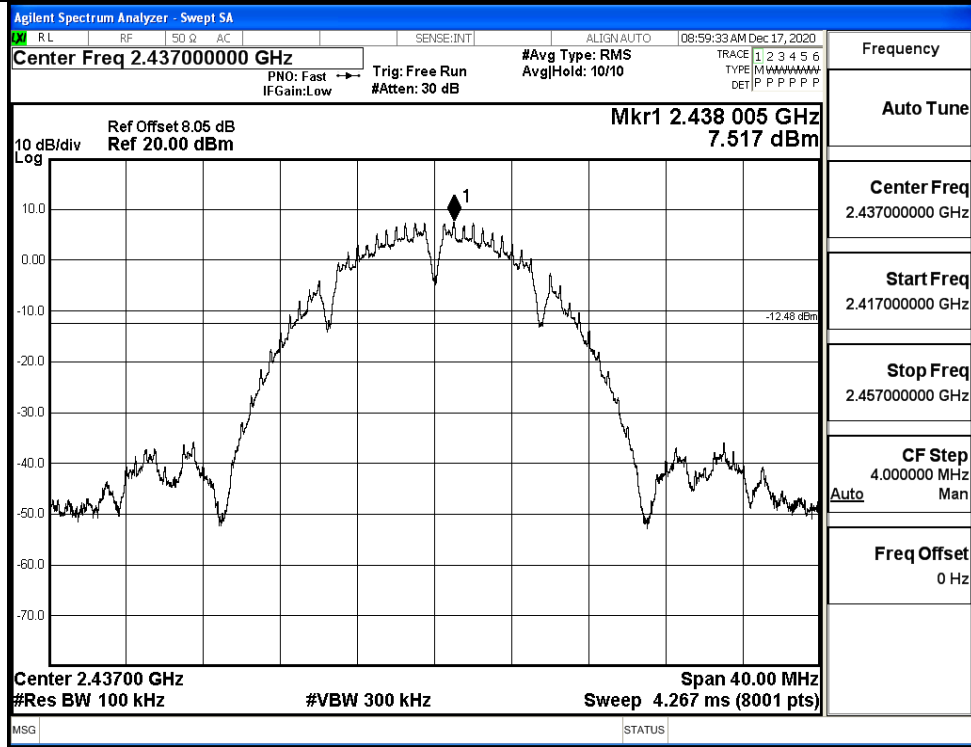


Puw/11B/LCH

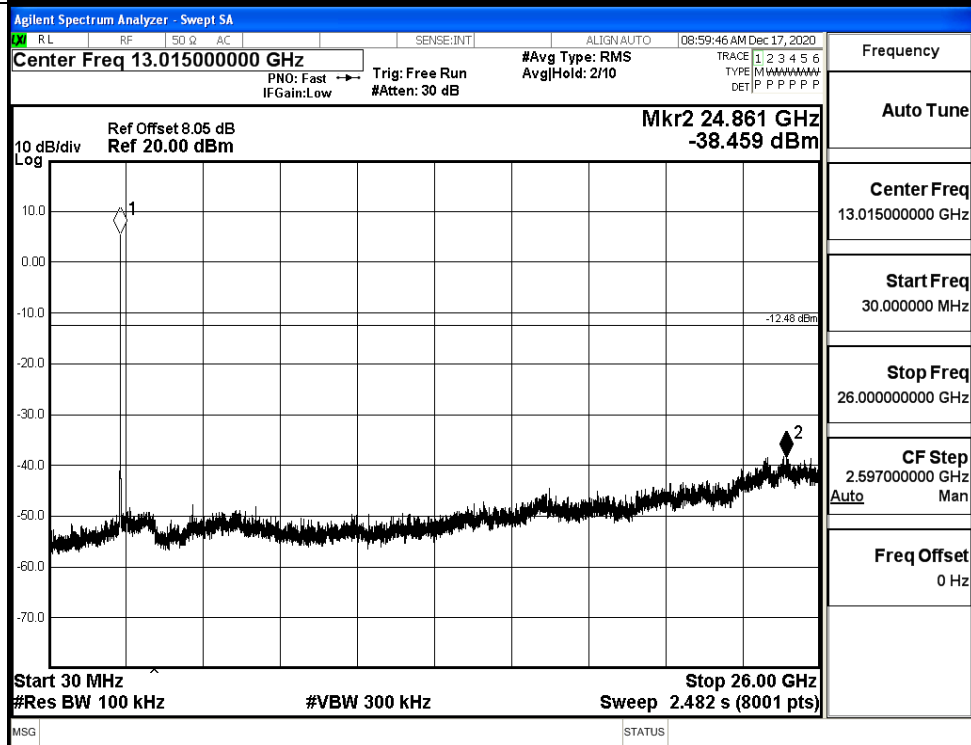


11B_MCH_Graphs

Pref/11B/MCH

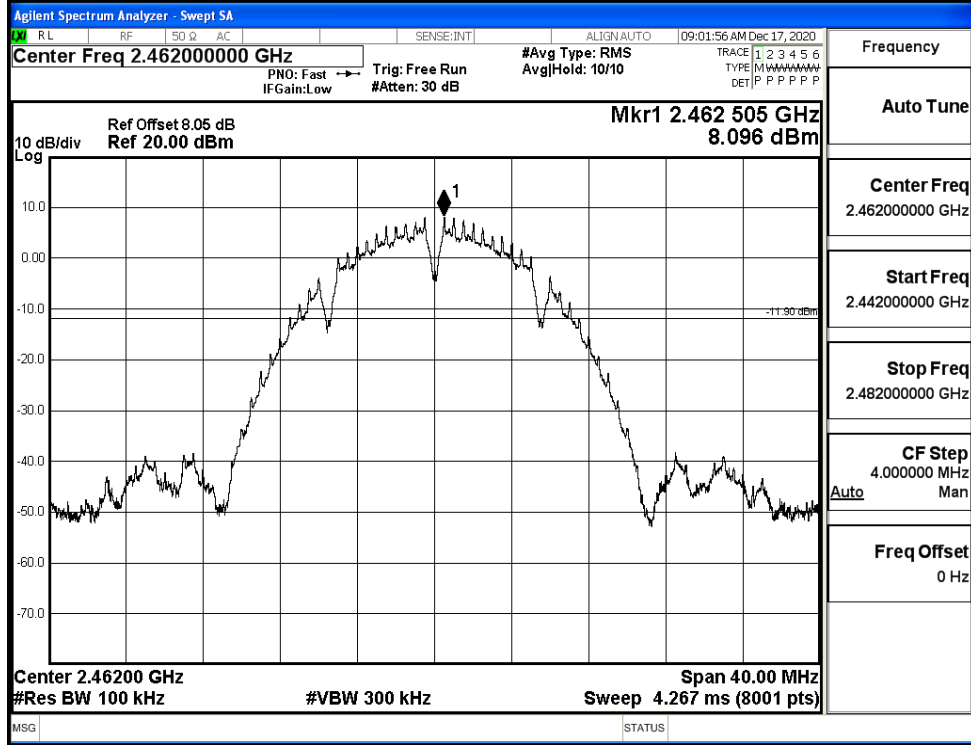


Puw/11B/MCH

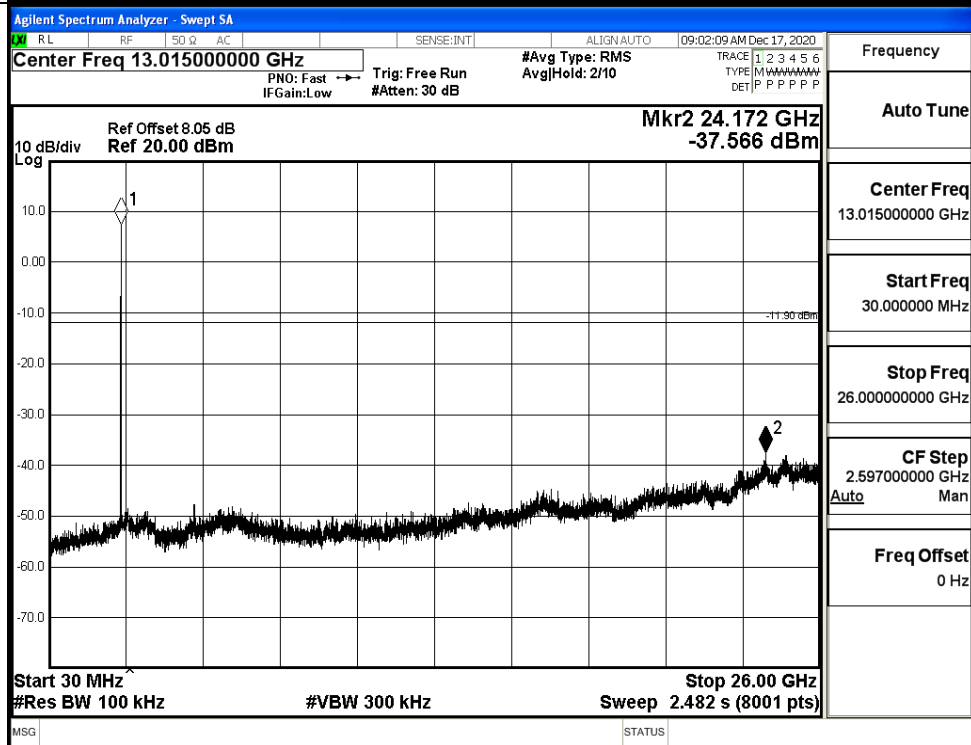


11B_HCH_Graphs

Pref/11B/HCH

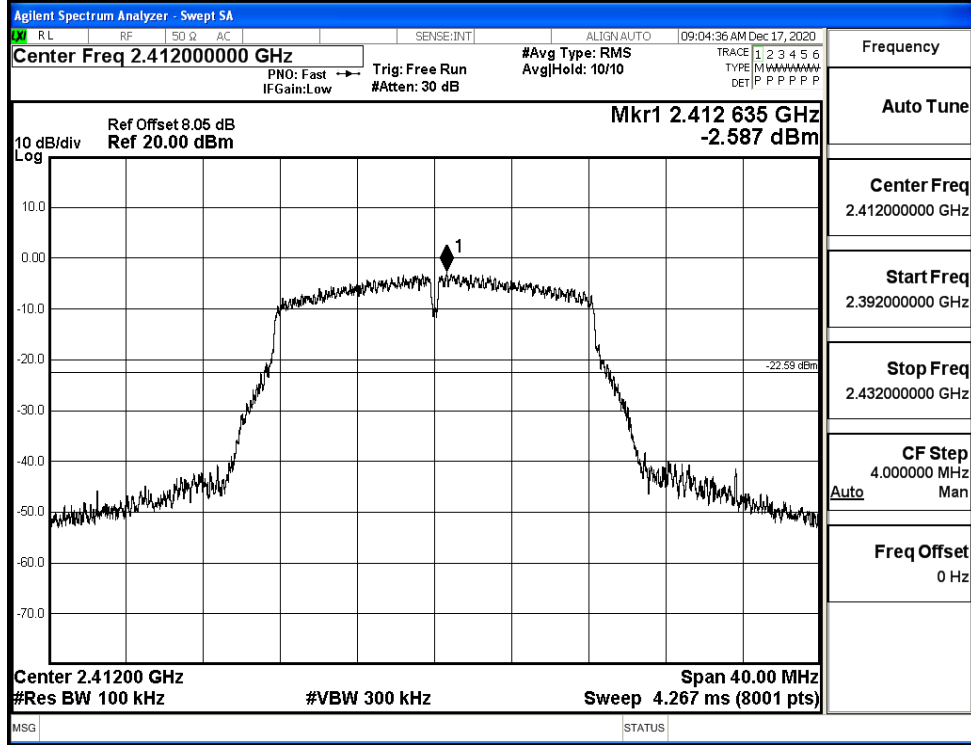


Puw/11B/HCH

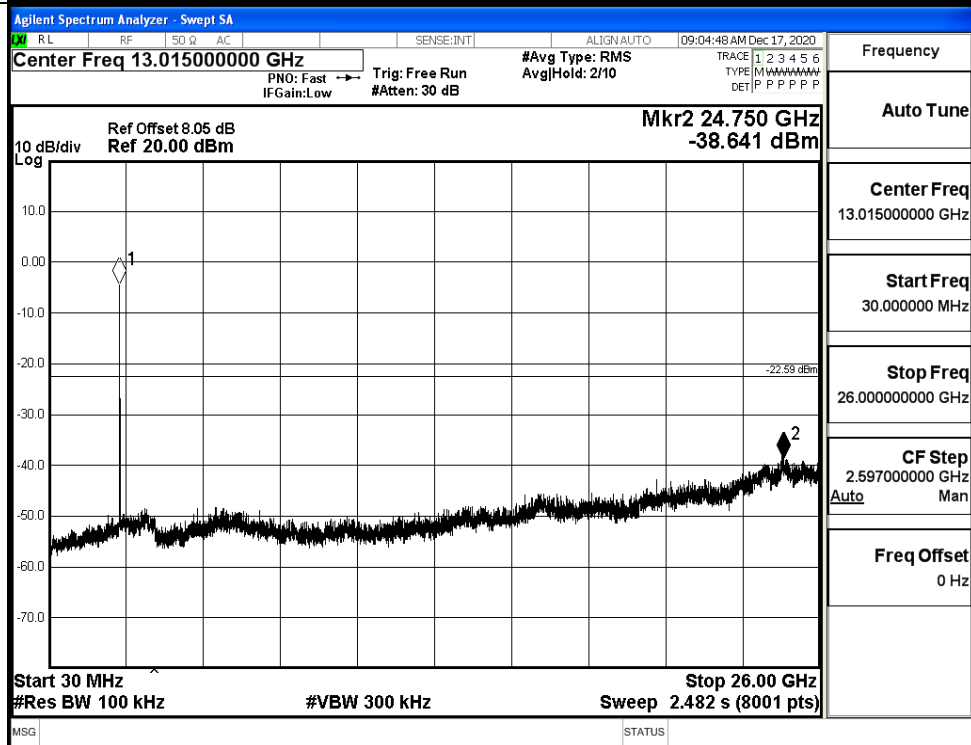


11G_LCH_Graphs

Pref/11G/LCH

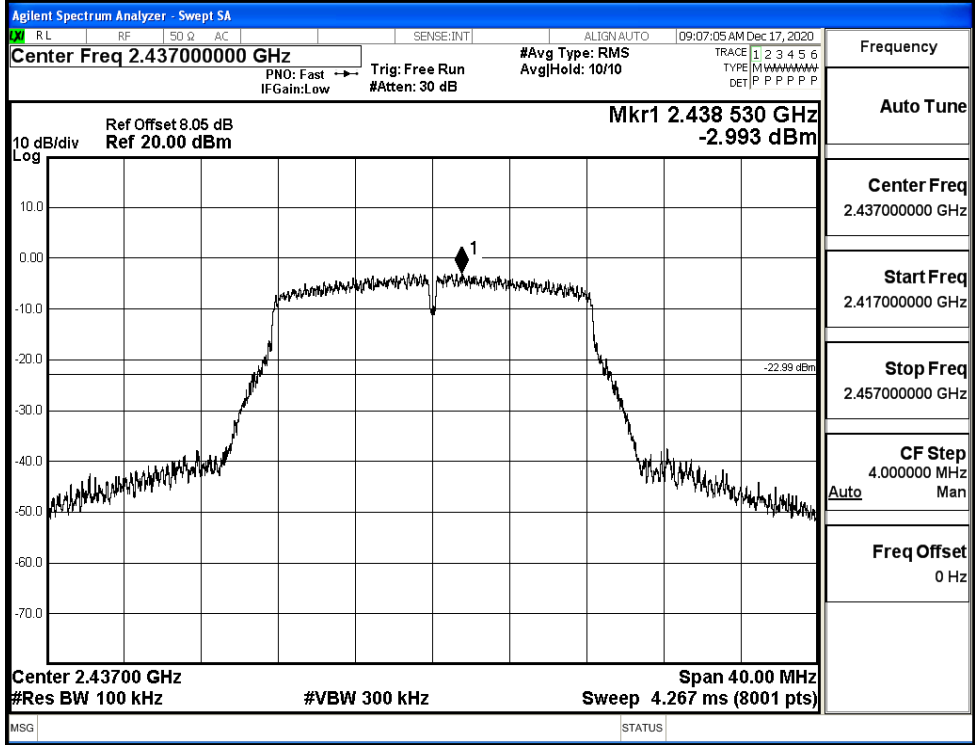


Puw/11G/LCH

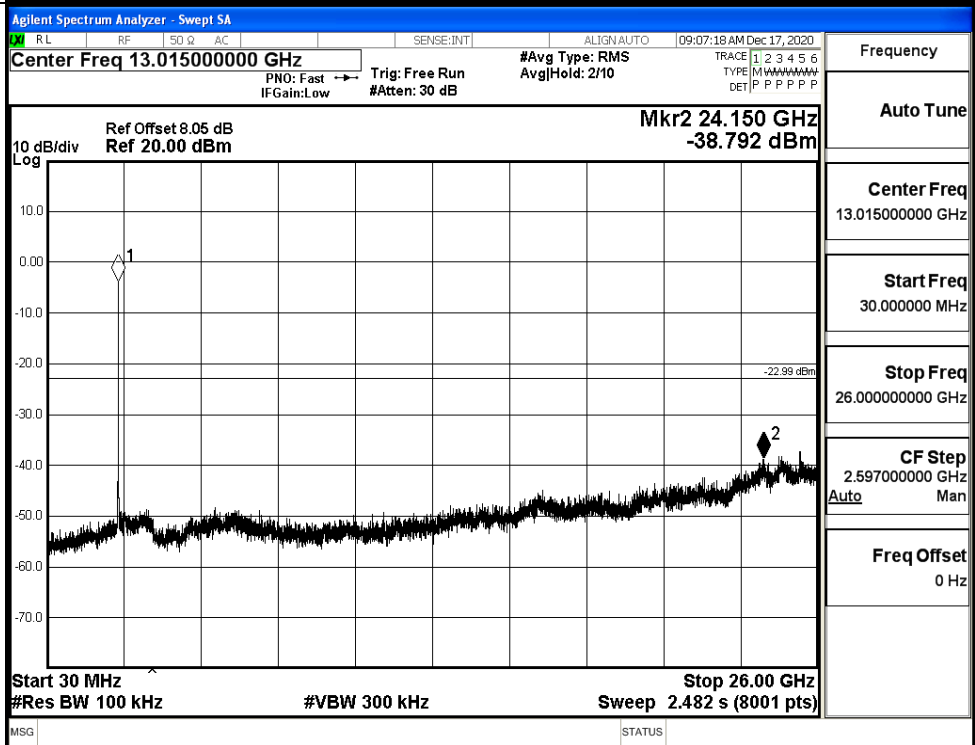


11G_MCH_Graphs

Pref/11G/MCH

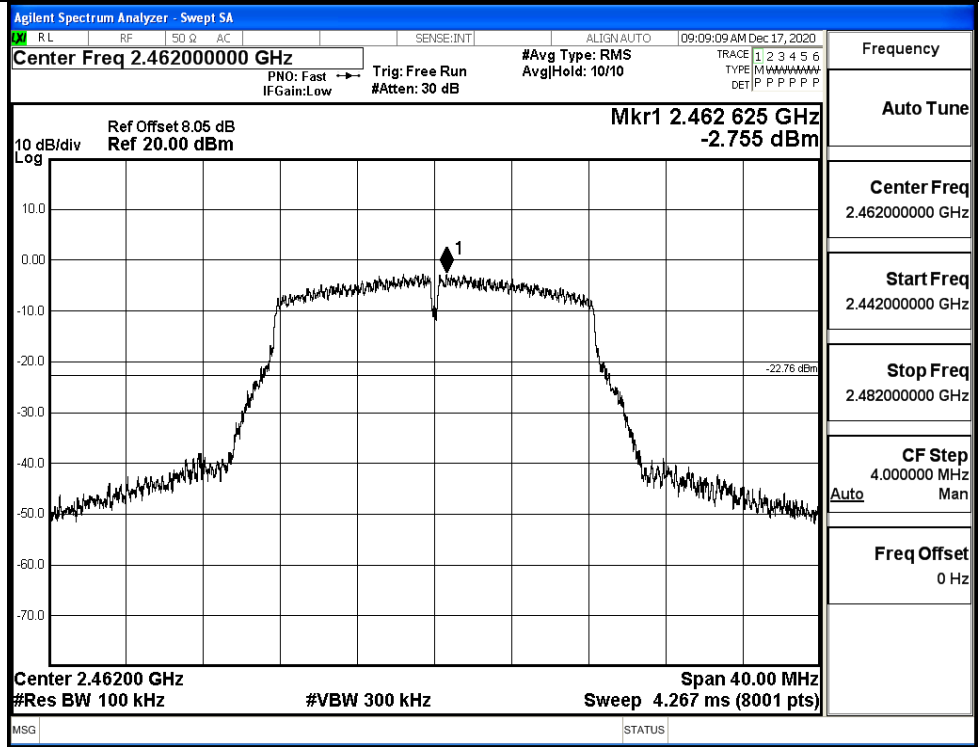


Puw/11G/MCH

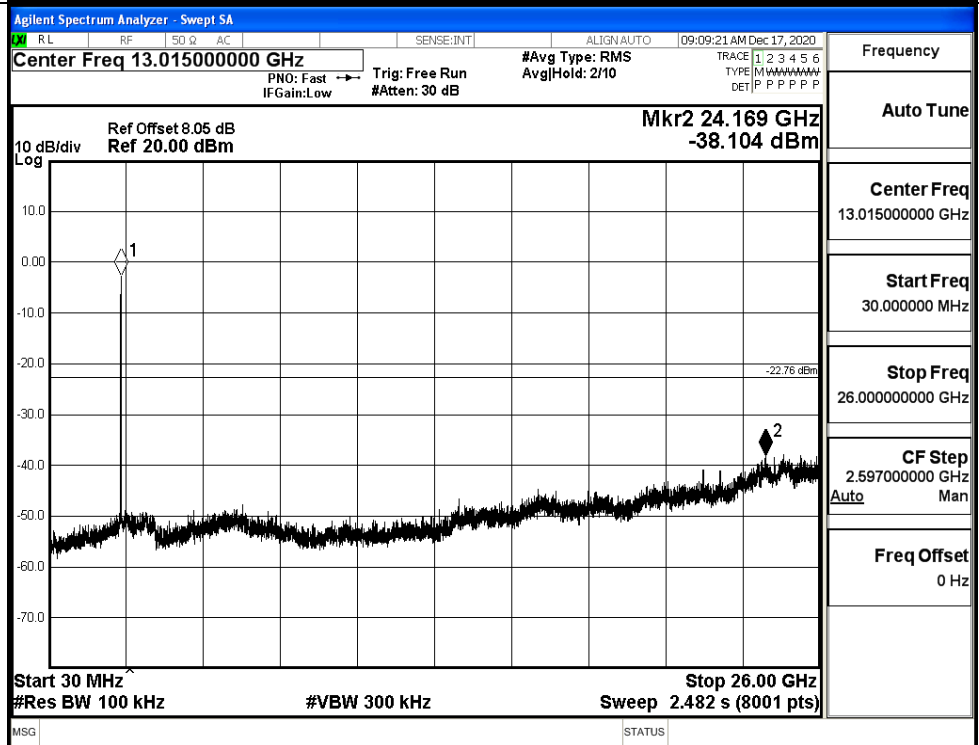


11G_HCH_Graphs

Pref/11G/HCH

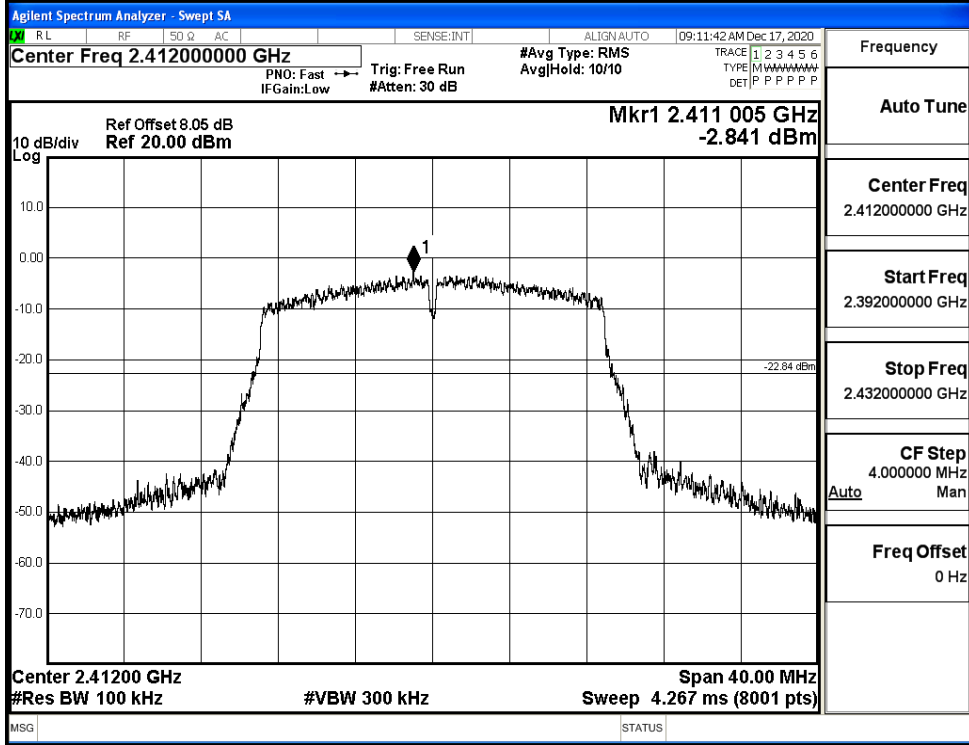


Puw/11G/HCH

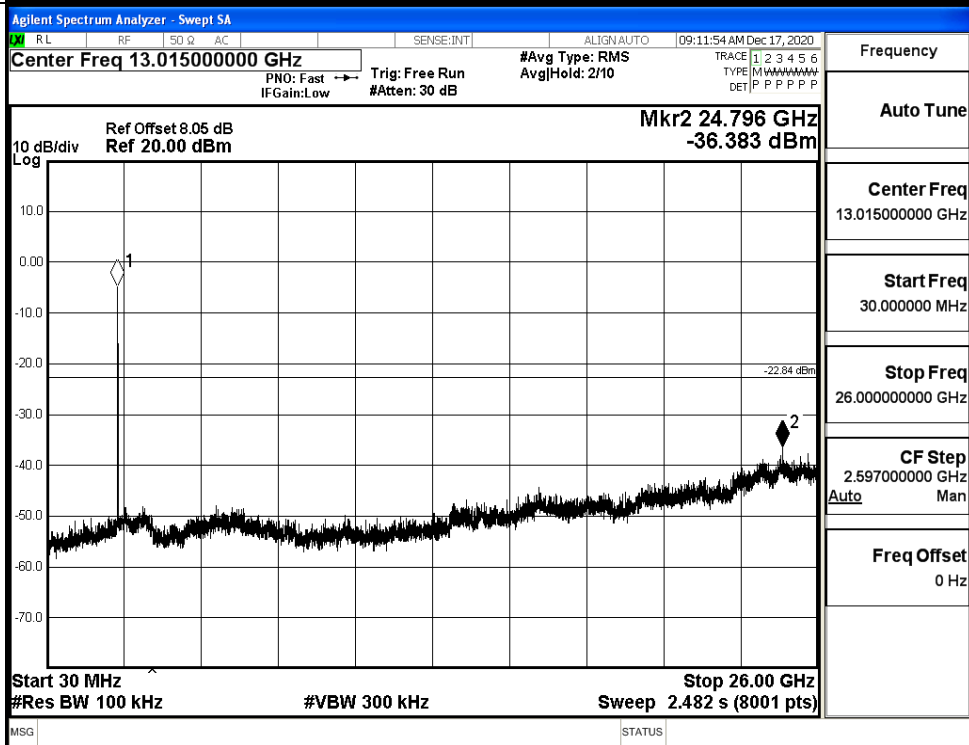


11N20SISO_LCH_Graphs

Pref/11N20SIS
O/LCH

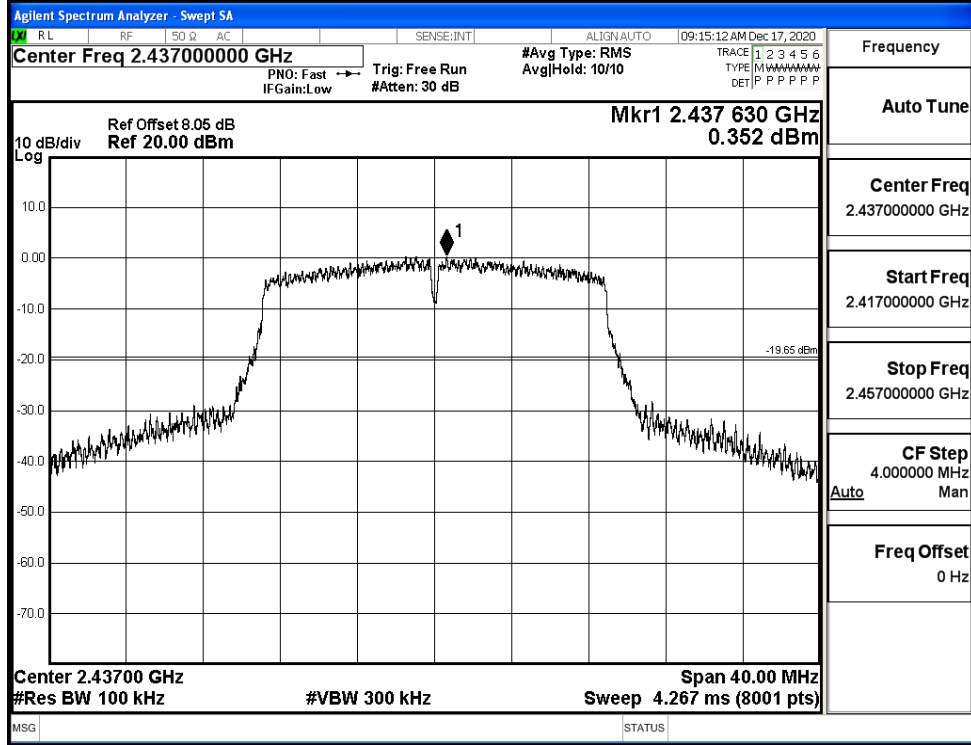


Puw/11N20
SISO/LCH

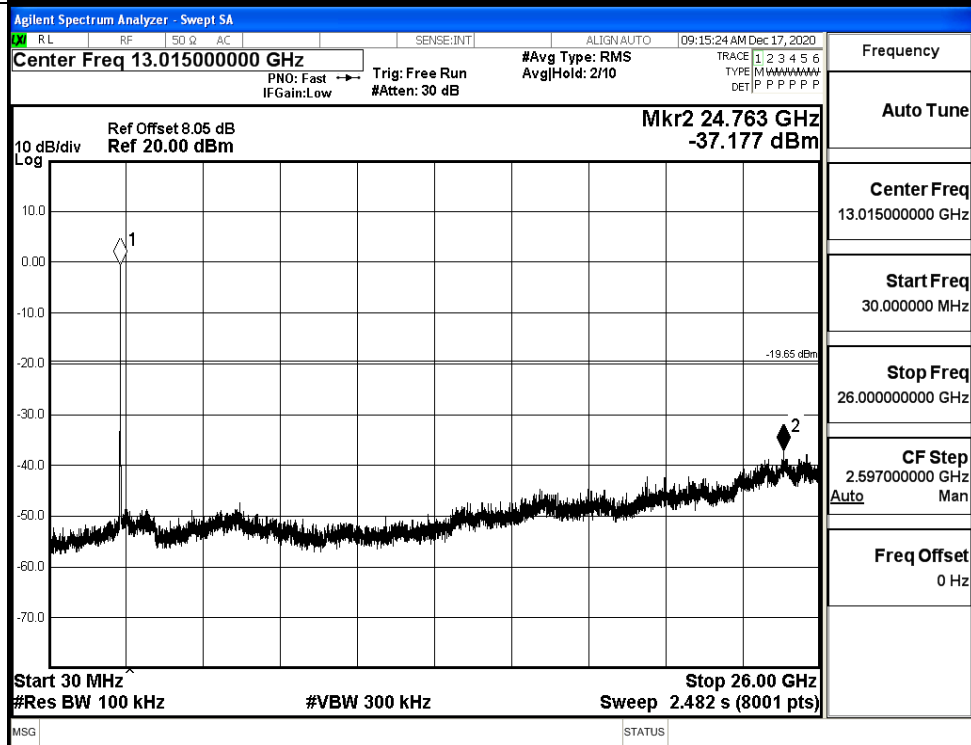


11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH

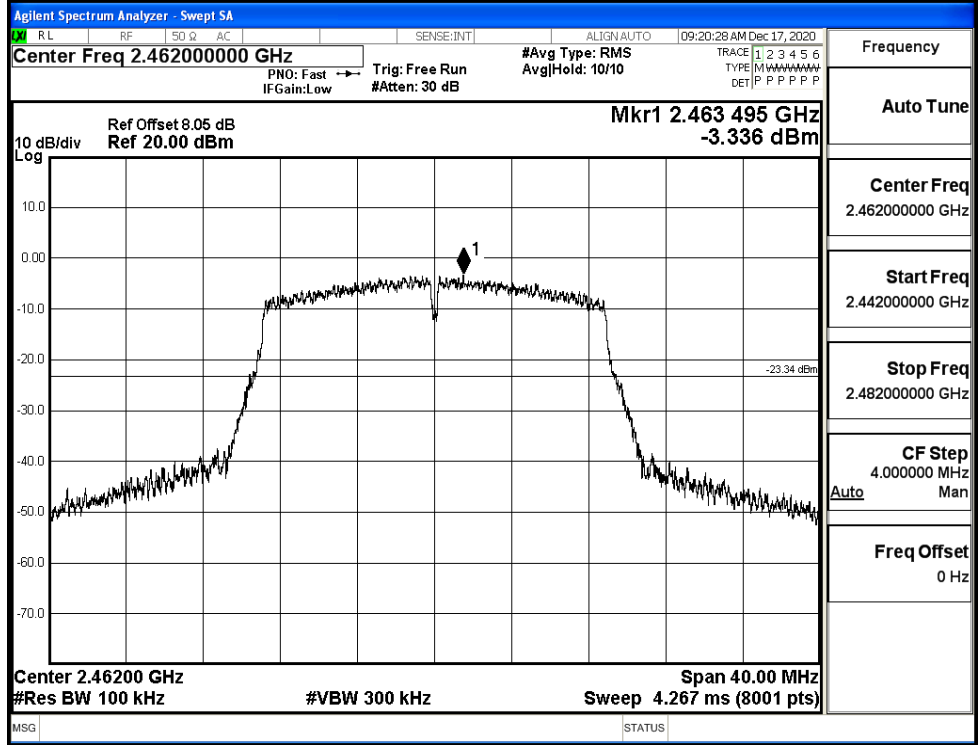


Puw/11N20
SISO/MCH

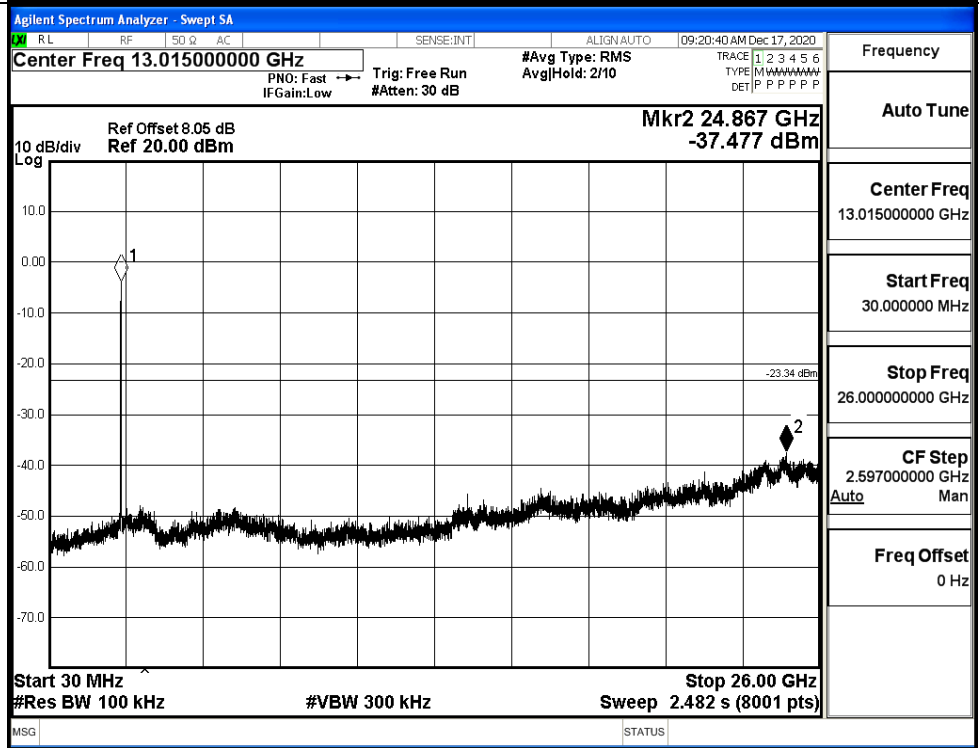


11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH



Puw/11N20
SISO/HCH

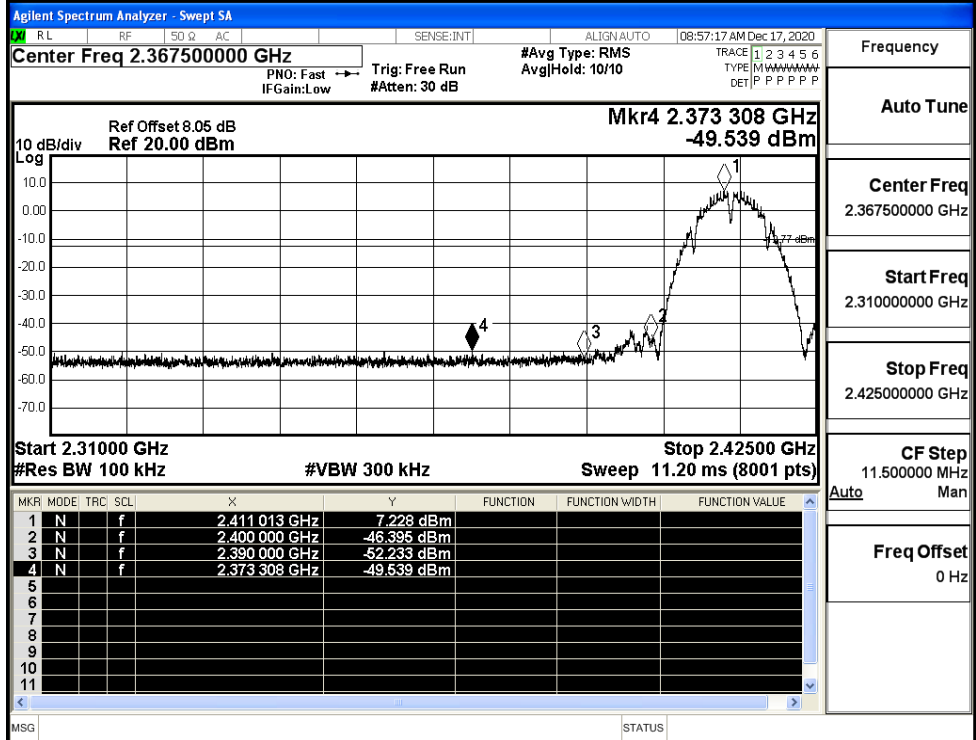


C.6 Band-edge for RF Conducted Emissions

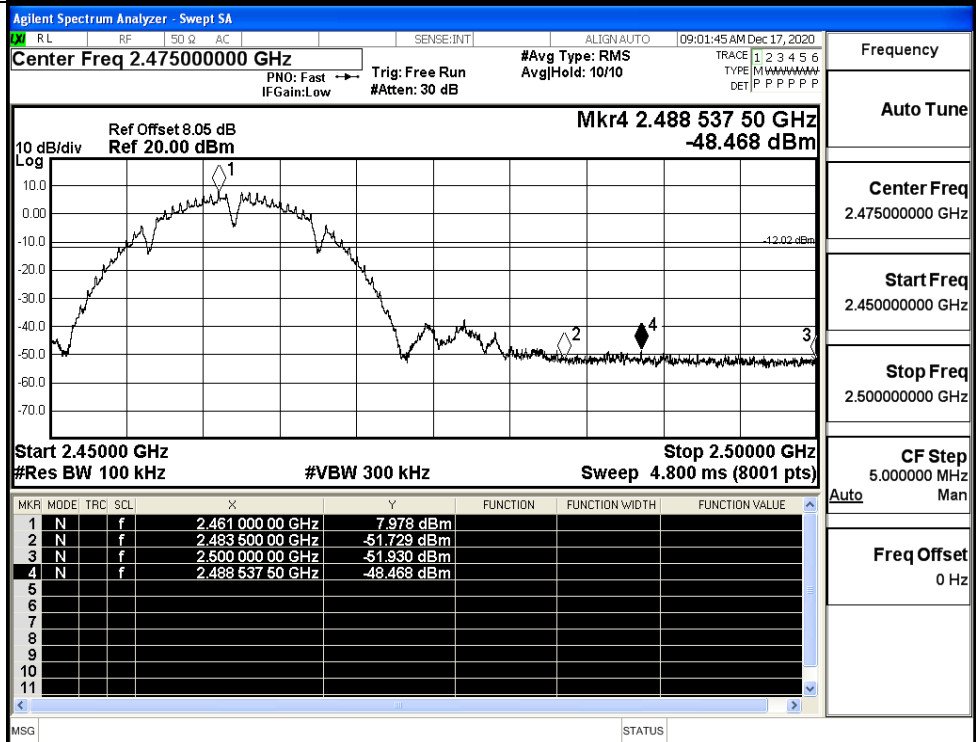
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	7.228	-49.539	-12.77	PASS
	HCH	7.978	-48.468	-12.02	PASS
11G	LCH	-2.633	-49.995	-22.63	PASS
	HCH	-2.675	-47.950	-22.68	PASS
11N20SISO	LCH	-3.289	-49.993	-23.29	PASS
	HCH	-3.199	-47.790	-23.2	PASS

Test Graphs

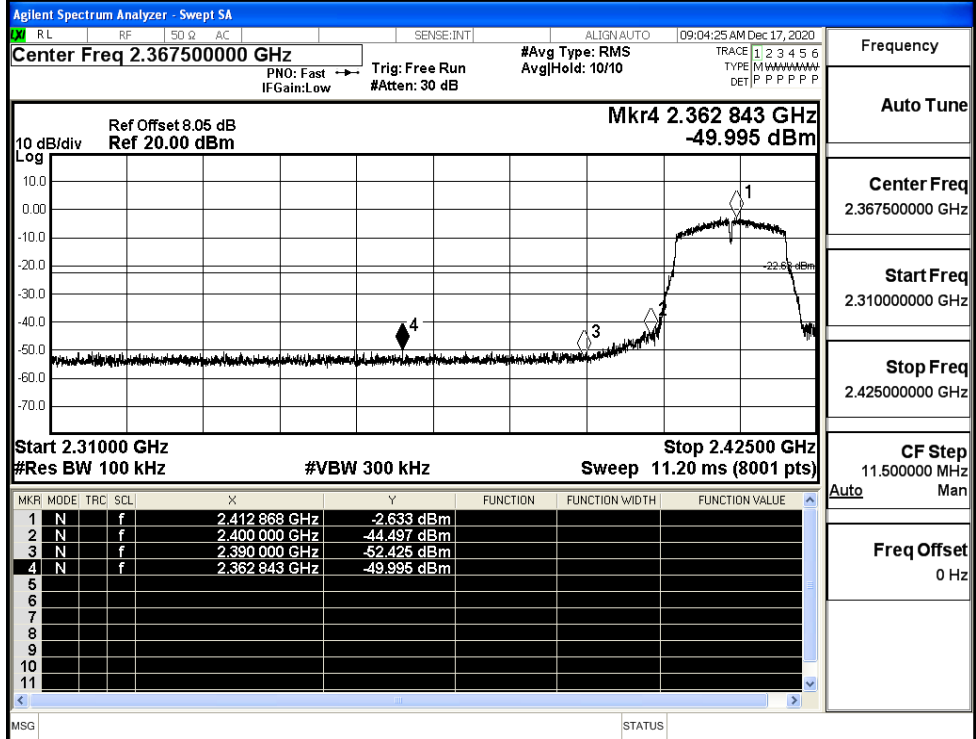
11B/LCH



11B/HCH



11G/LCH



Frequency

Auto Tune

Center Freq
2.367500000 GHz

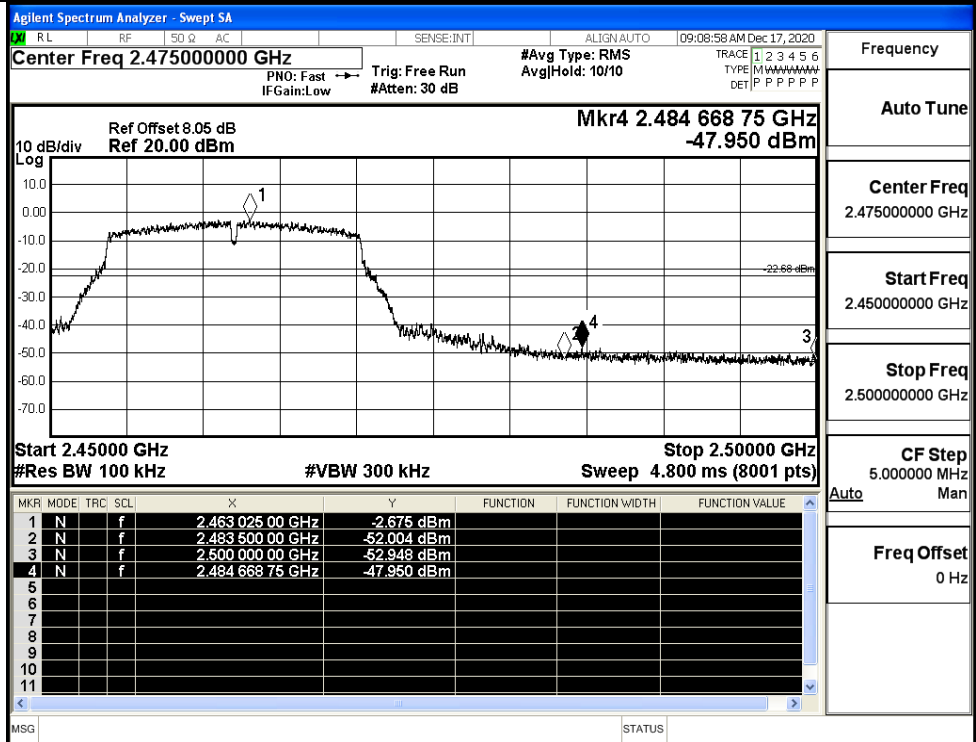
Start Freq
2.310000000 GHz

Stop Freq
2.425000000 GHz

CF Step
11.500000 MHz

Freq Offset
0 Hz

11G/HCH



Frequency

Auto Tune

Center Freq
2.475000000 GHz

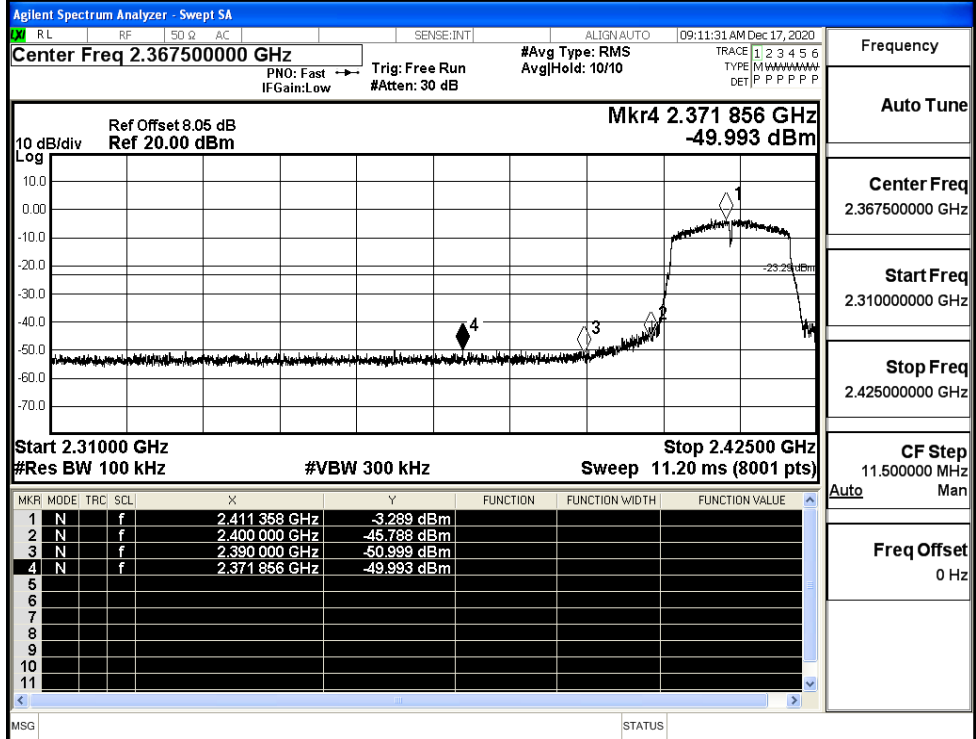
Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

CF Step
5.000000 MHz

Freq Offset
0 Hz

11N20SISO/LCH



Frequency

Auto Tune

Center Freq
2.367500000 GHz

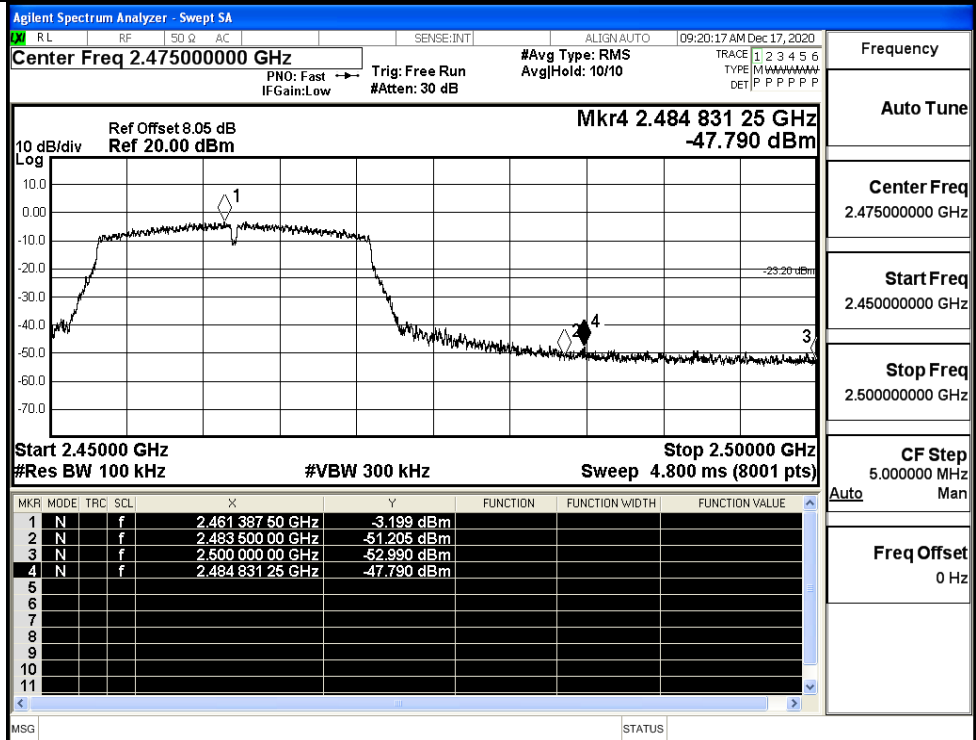
Start Freq
2.310000000 GHz

Stop Freq
2.425000000 GHz

CF Step
11.500000 MHz

Freq Offset
0 Hz

11N20SISO/HCH



Frequency

Auto Tune

Center Freq
2.475000000 GHz

Start Freq
2.450000000 GHz

Stop Freq
2.500000000 GHz

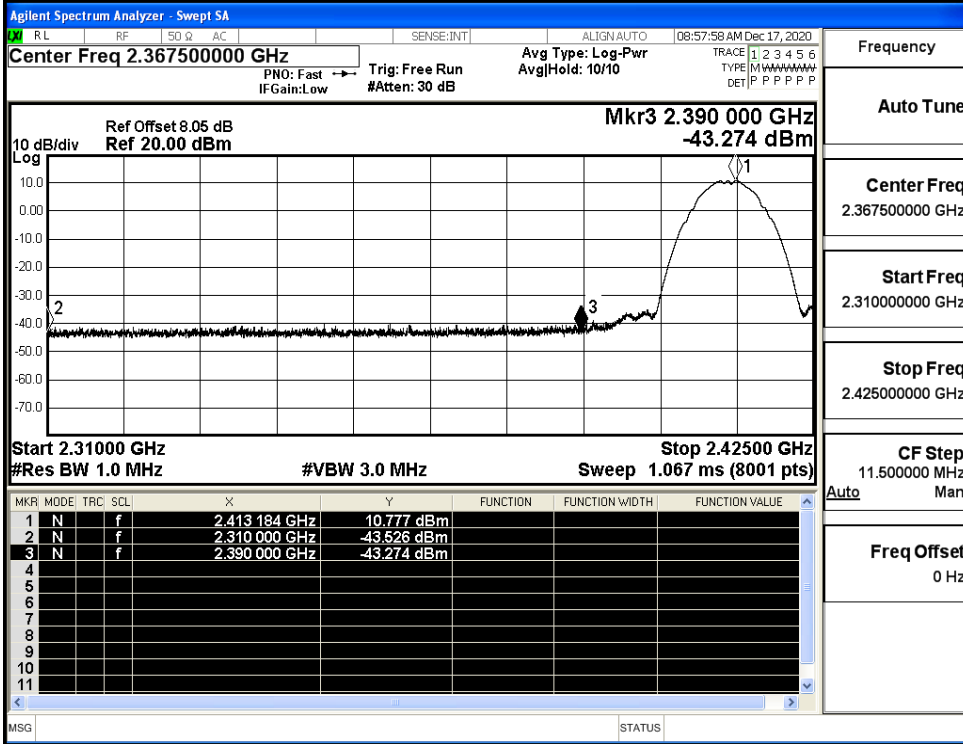
CF Step
5.000000 MHz

Freq Offset
0 Hz

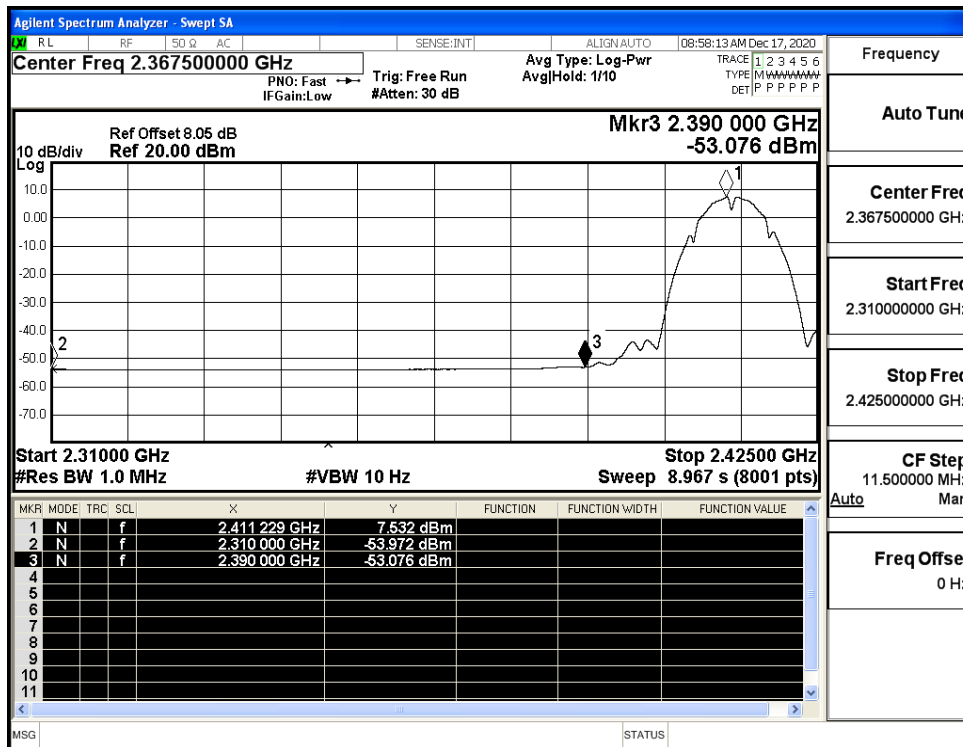
C.7 Restrict-band band-edge measurements

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	-43.53	2.0	0	53.70	PEAK	74	PASS
	2412	Ant1	2310.0	-53.97	2.0	0	43.26	AV	54	PASS
	2412	Ant1	2390.0	-43.27	2.0	0	53.96	PEAK	74	PASS
	2412	Ant1	2390.0	-53.08	2.0	0	44.15	AV	54	PASS
	2462	Ant1	2483.5	-41.86	2.0	0	55.37	PEAK	74	PASS
	2462	Ant1	2483.5	-51.81	2.0	0	45.42	AV	54	PASS
	2462	Ant1	2500.0	-43.03	2.0	0	54.20	PEAK	74	PASS
	2462	Ant1	2500.0	-52.97	2.0	0	44.26	AV	54	PASS
11G	2412	Ant1	2310.0	-44.23	2.0	0	53.00	PEAK	74	PASS
	2412	Ant1	2310.0	-53.93	2.0	0	43.30	AV	54	PASS
	2412	Ant1	2390.0	-42.22	2.0	0	55.01	PEAK	74	PASS
	2412	Ant1	2390.0	-52.76	2.0	0	44.47	AV	54	PASS
	2462	Ant1	2483.5	-40.46	2.0	0	56.77	PEAK	74	PASS
	2462	Ant1	2483.5	-51.12	2.0	0	46.11	AV	54	PASS
	2462	Ant1	2500.0	-42.64	2.0	0	54.59	PEAK	74	PASS
	2462	Ant1	2500.0	-52.90	2.0	0	44.33	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.36	2.0	0	54.87	PEAK	74	PASS
	2412	Ant1	2310.0	-53.79	2.0	0	43.44	AV	54	PASS
	2412	Ant1	2390.0	-41.94	2.0	0	55.29	PEAK	74	PASS
	2412	Ant1	2390.0	-52.51	2.0	0	44.72	AV	54	PASS
	2462	Ant1	2483.5	-39.43	2.0	0	57.80	PEAK	74	PASS
	2462	Ant1	2483.5	-51.01	2.0	0	46.22	AV	54	PASS
	2462	Ant1	2500.0	-42.26	2.0	0	54.97	PEAK	74	PASS
	2462	Ant1	2500.0	-52.85	2.0	0	44.38	AV	54	PASS

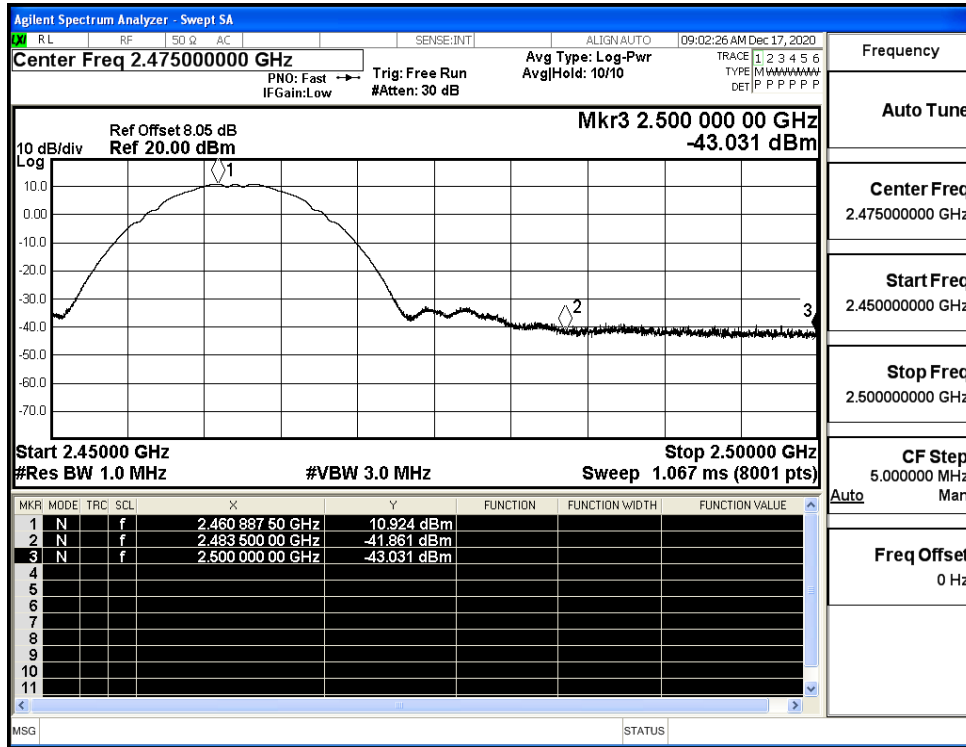
Restrict-band band-edge measurements_11B_2412_Ant1_PEAK



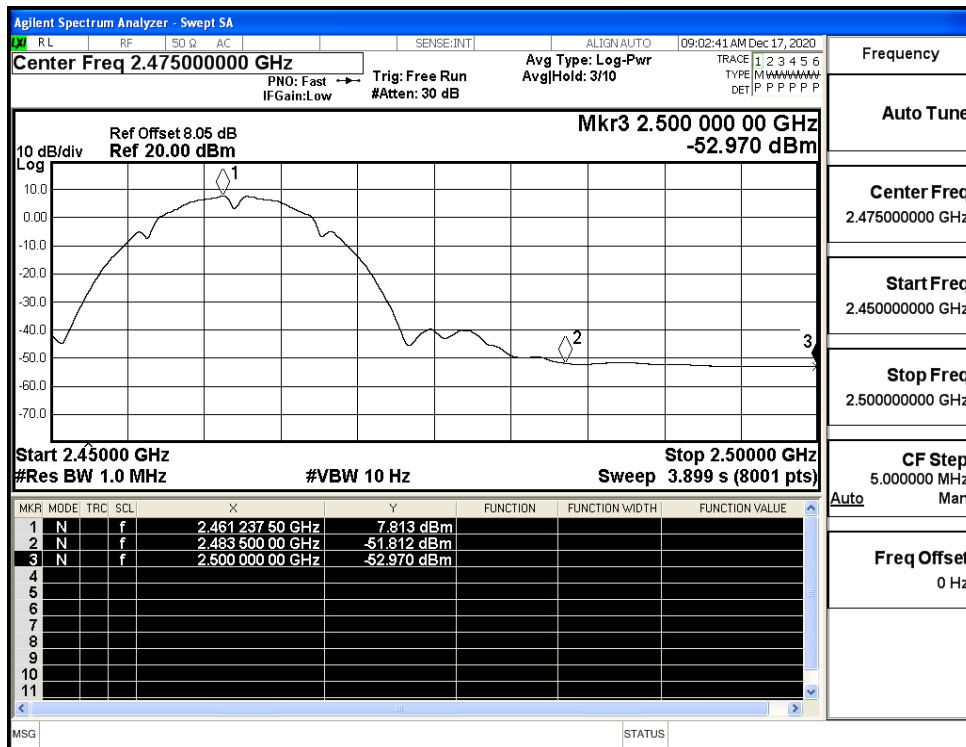
Restrict-band band-edge measurements_11B_2412_Ant1_AV



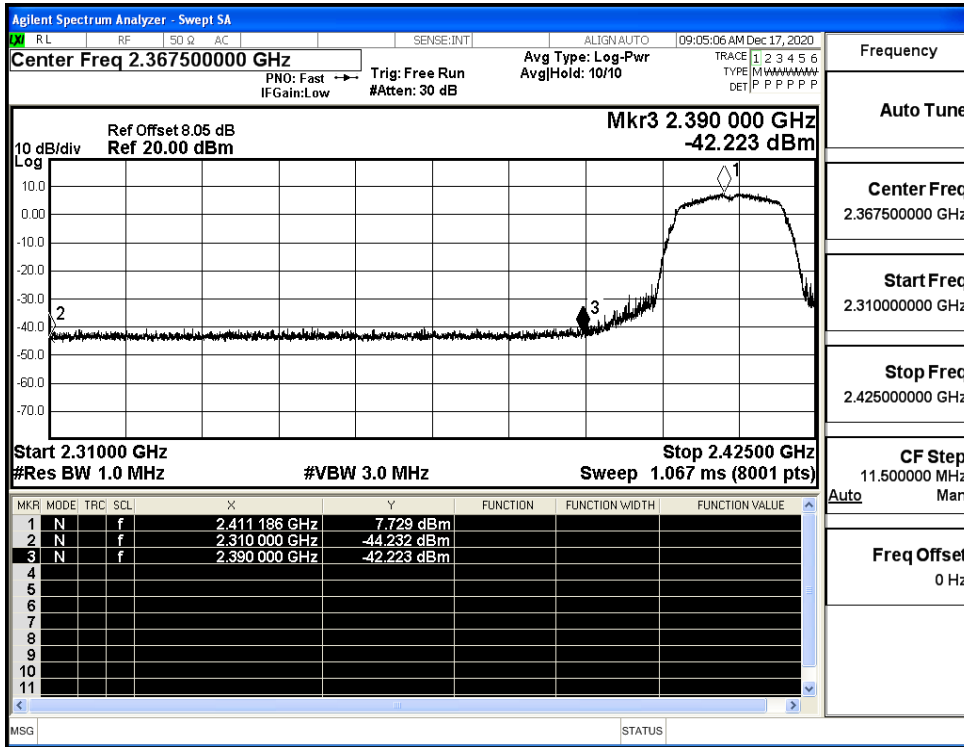
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



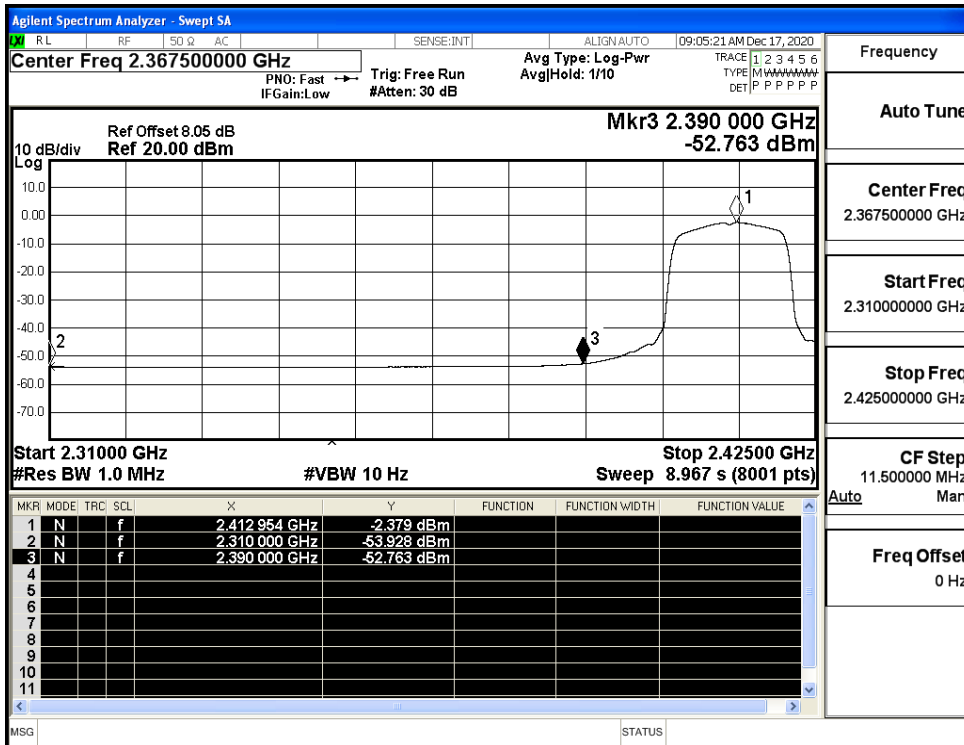
Restrict-band band-edge measurements_11B_2462_Ant1_AV



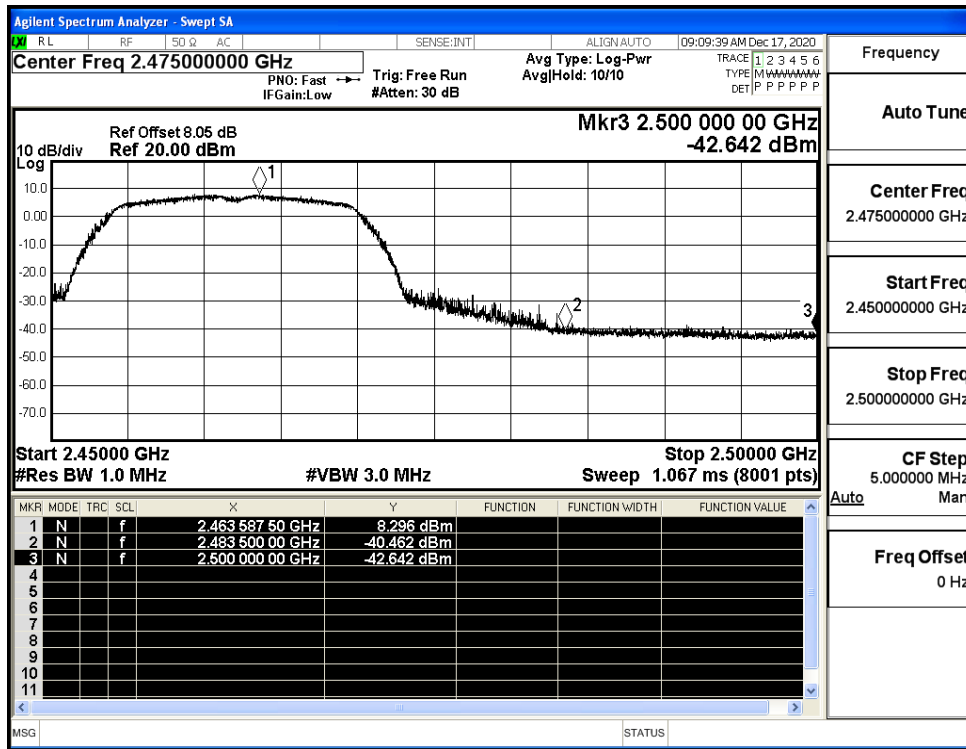
Restrict-band band-edge measurements_11G_2412_Ant1_PEAK



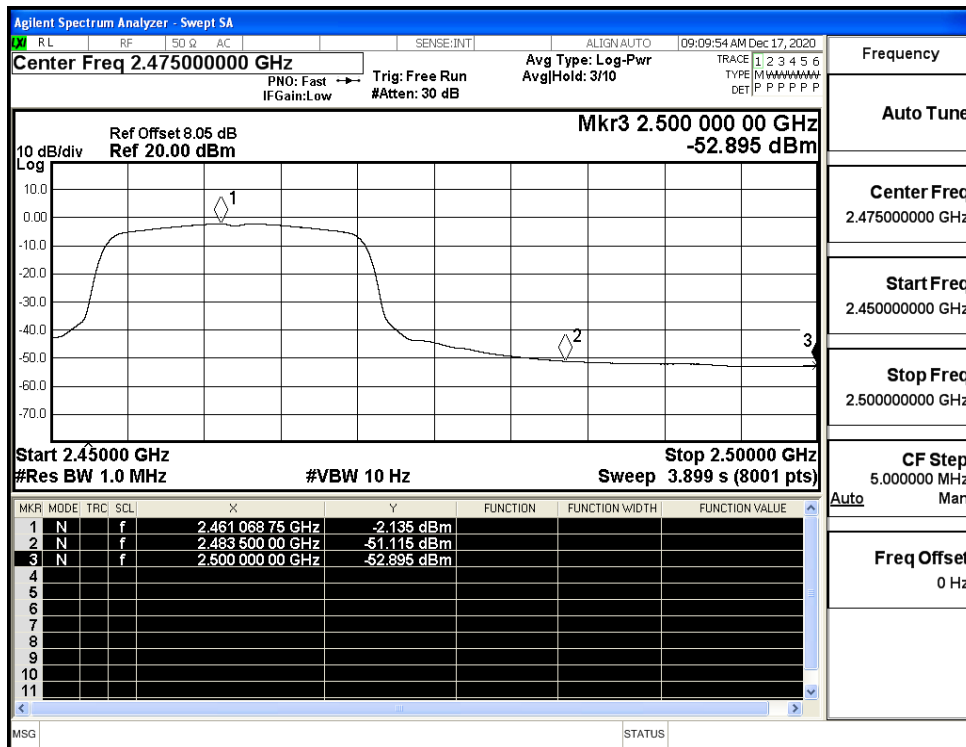
Restrict-band band-edge measurements_11G_2412_Ant1_AV



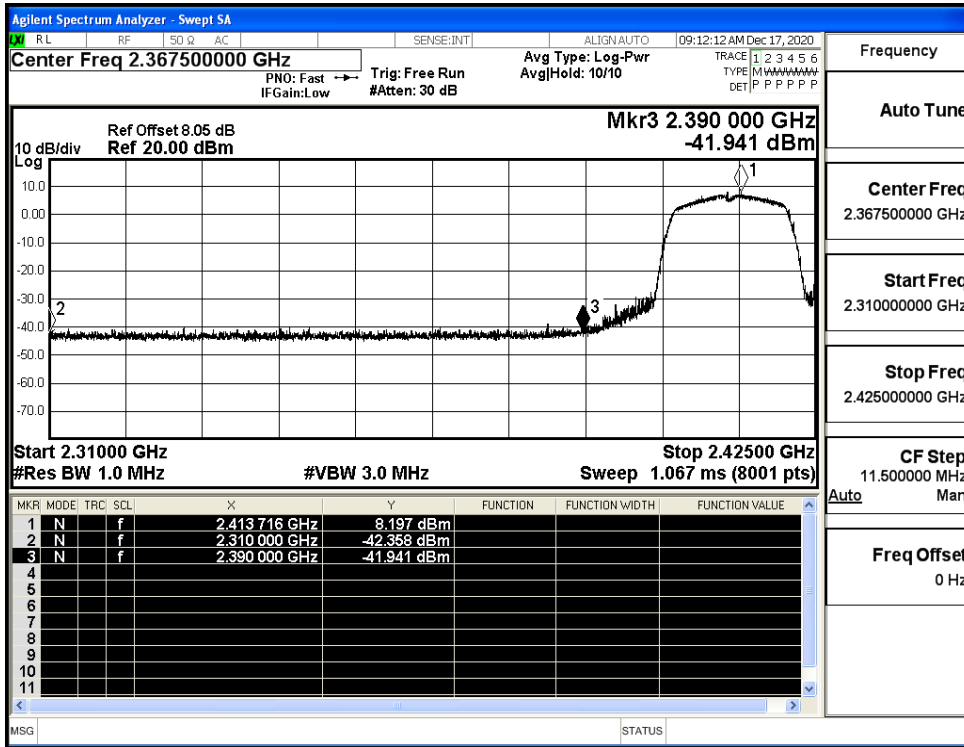
Restrict-band band-edge measurements_11G_2462_Ant1_PEAK



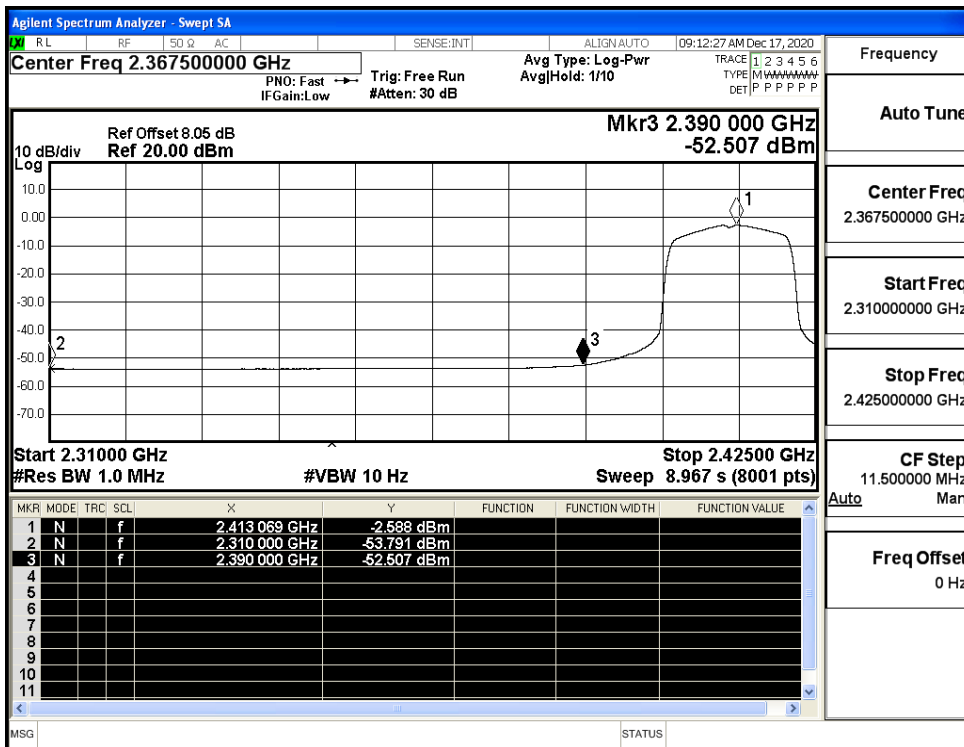
Restrict-band band-edge measurements_11G_2462_Ant1_AV



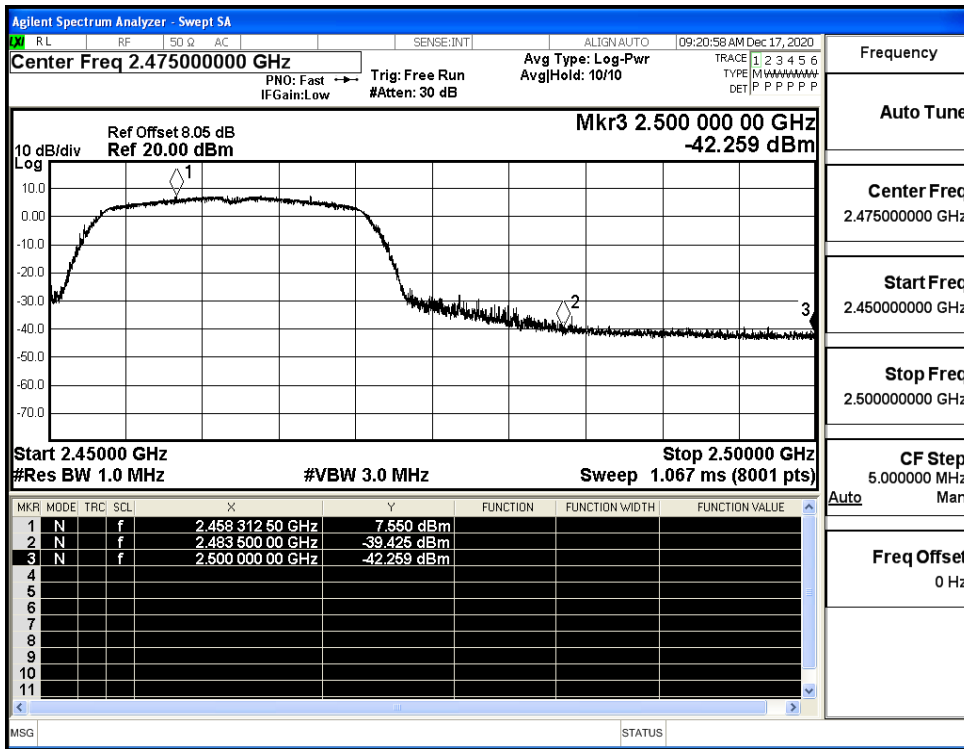
Restrict-band band-edge measurements_11N20SISO_2412_Ant1_PEAK



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

