

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Wireless FHD Spotlight Camera

Trade Mark: CasaCam

Test Model: VC2000L

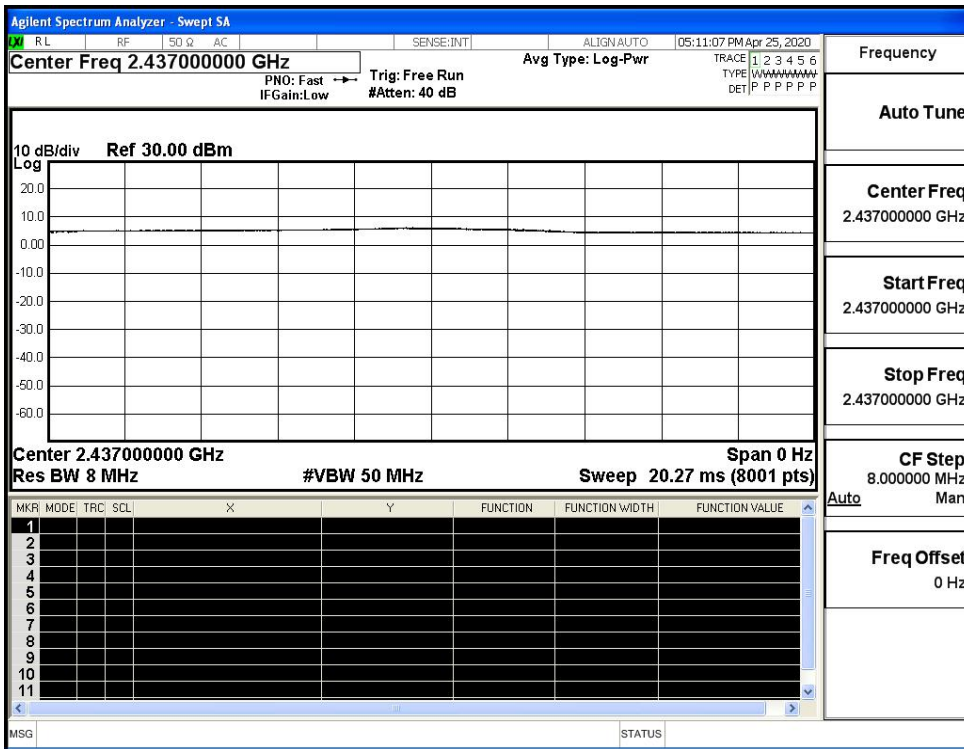
Environmental Conditions

Temperature:	23.3 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Scout Wu
Supervised by:	Li Huan

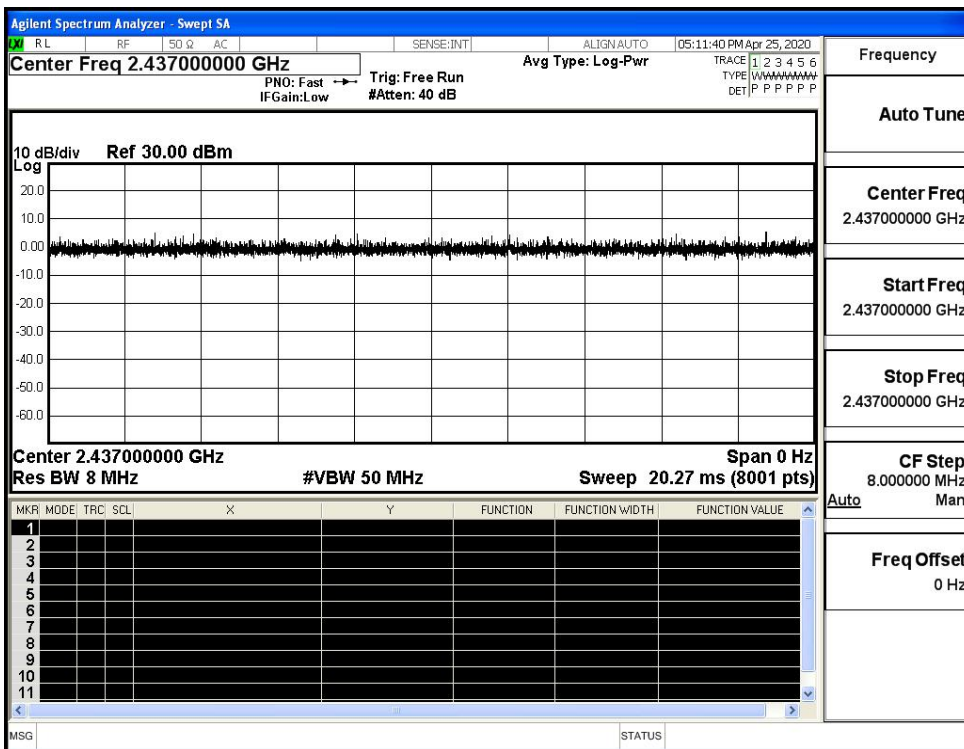
A.1 Duty Cycle

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

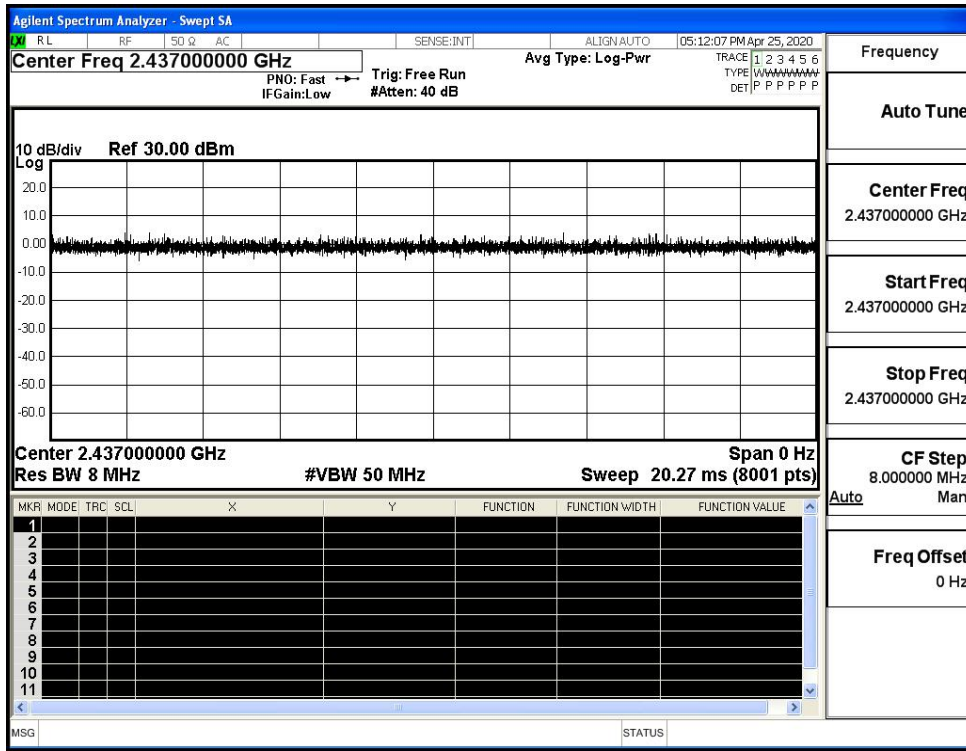
Duty Cycle_11B_2437_Ant1



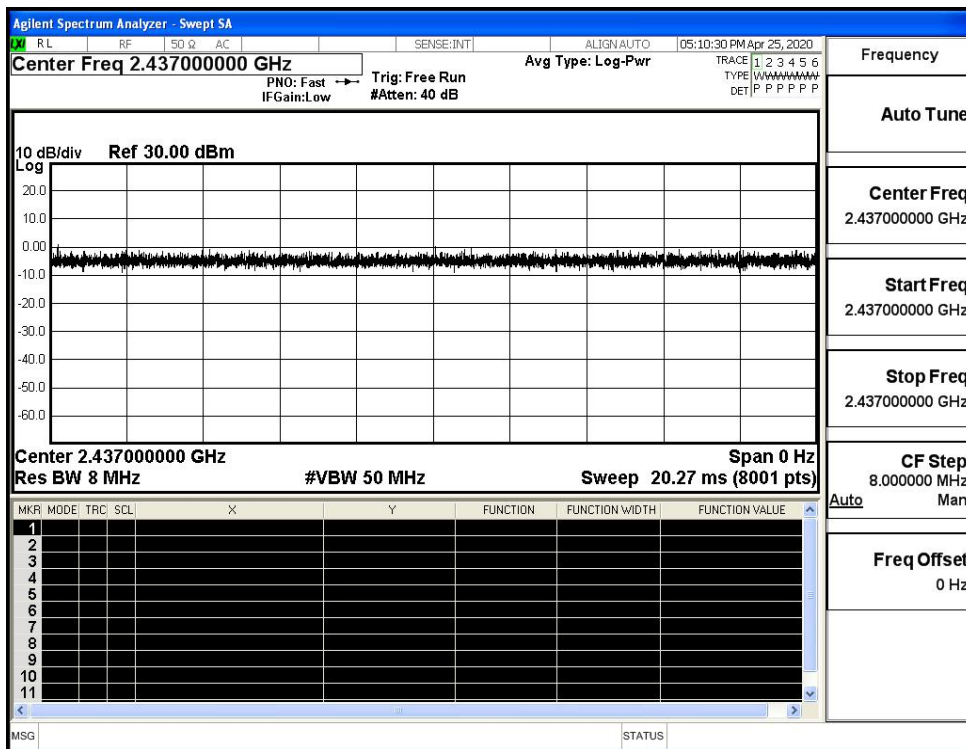
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1

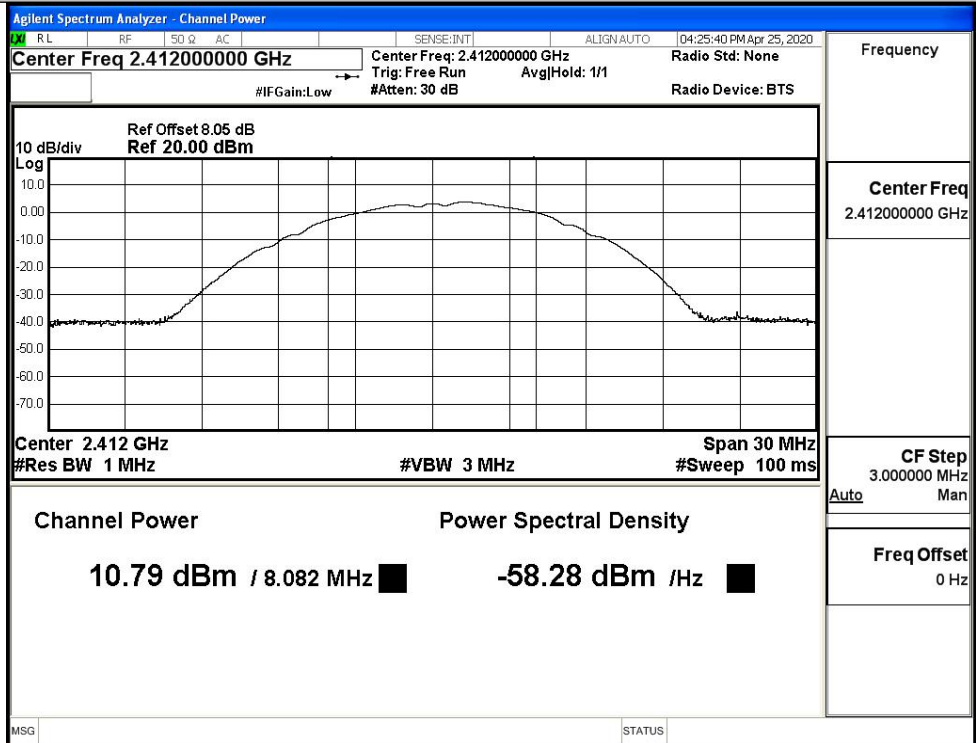


A.2 Maximum Conducted Output Power

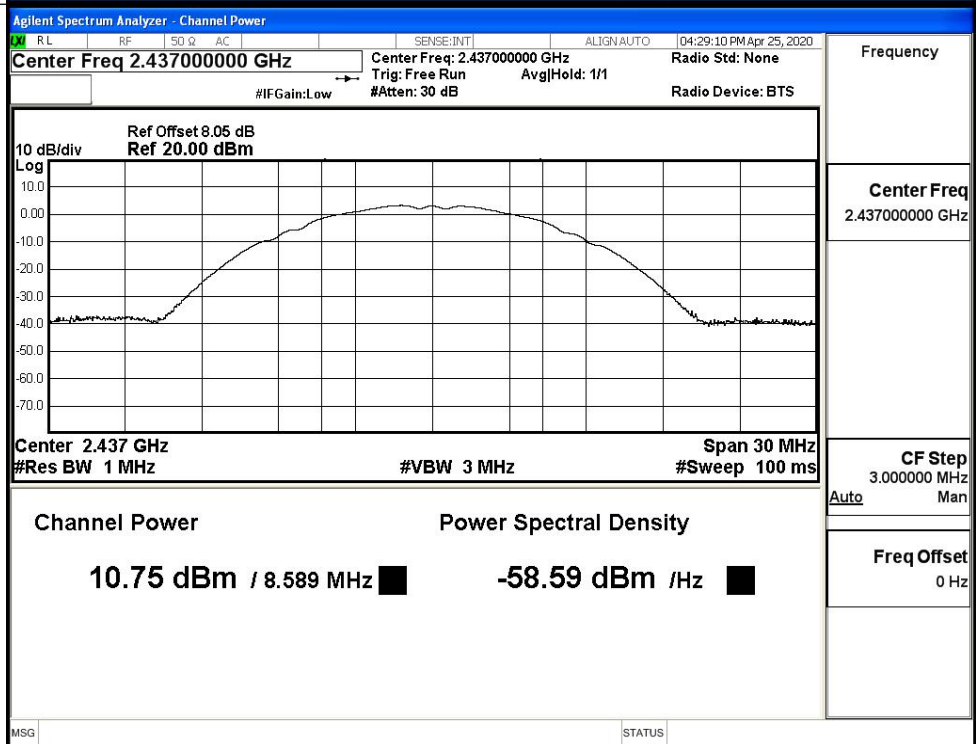
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	10.79	30	PASS
	MCH	10.75	30	PASS
	HCH	10.78	30	PASS
11G	LCH	10.51	30	PASS
	MCH	10.41	30	PASS
	HCH	11.70	30	PASS
11N20SISO	LCH	10.38	30	PASS
	MCH	10.36	30	PASS
	HCH	11.54	30	PASS
11N40SISO	LCH	12.26	30	PASS
	MCH	12.05	30	PASS
	HCH	12.56	30	PASS

Test Graphs

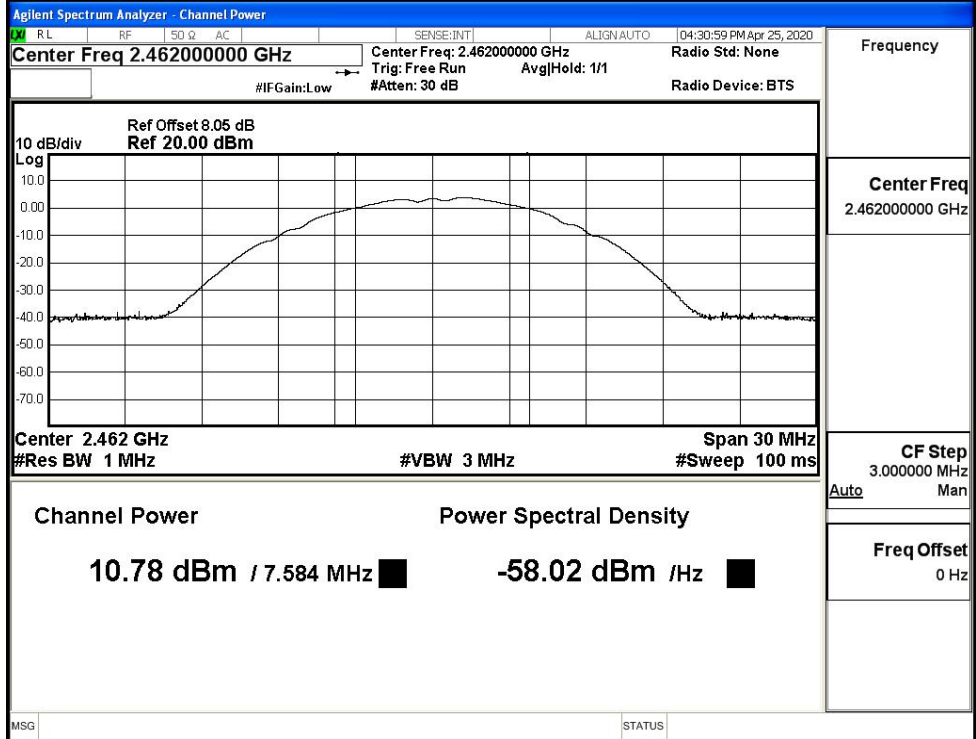
11B/LCH



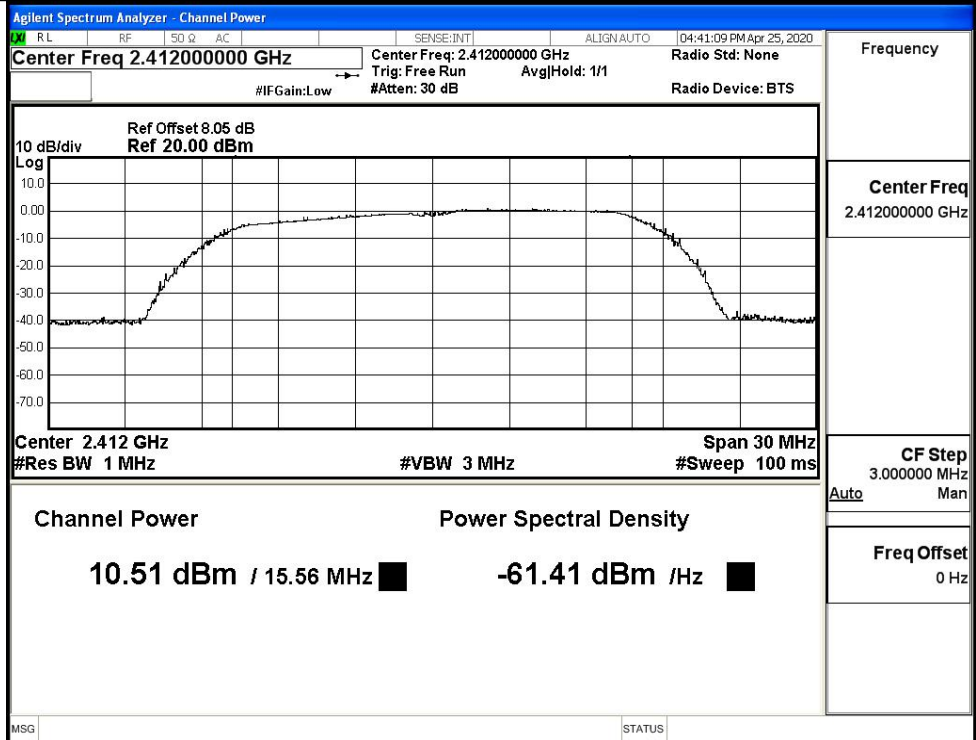
11B/MCH



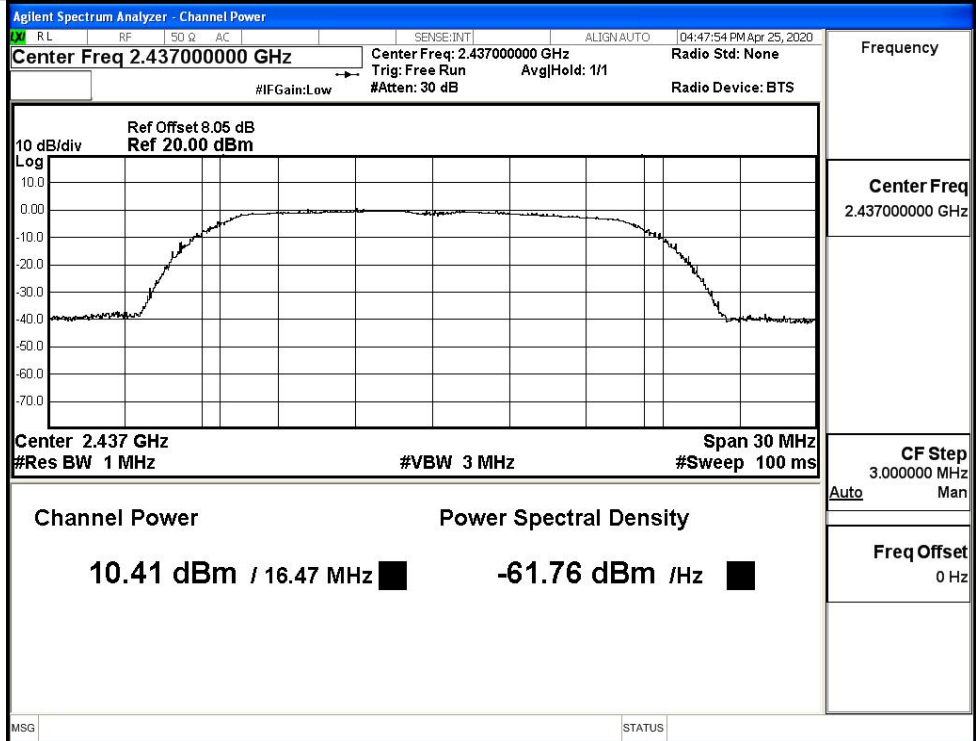
11B/HCH



11G/LCH

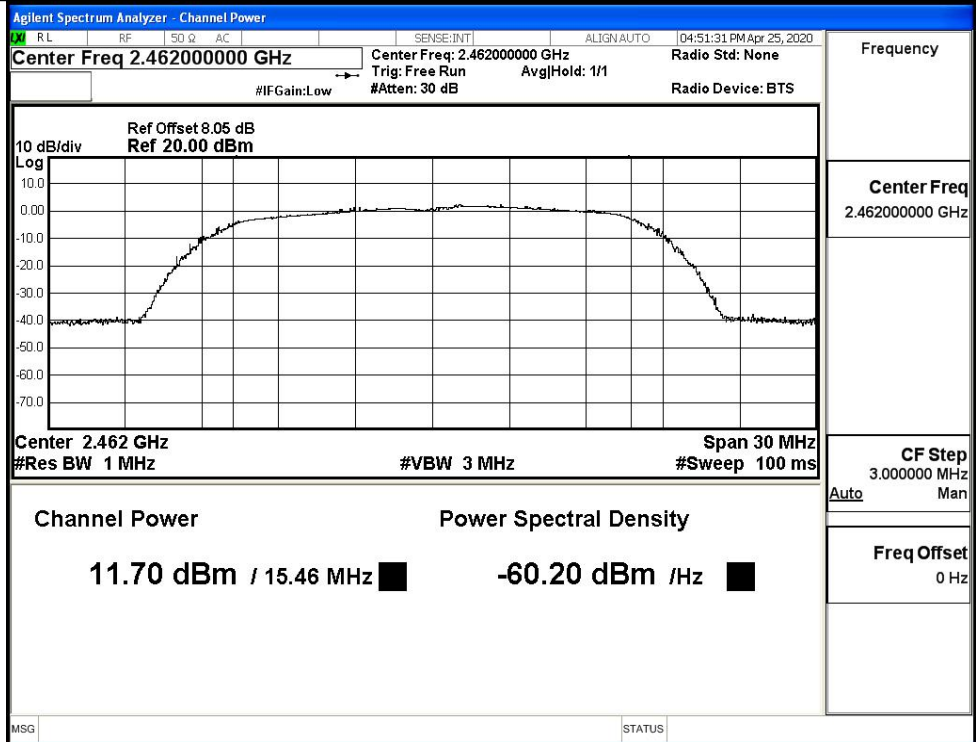


11G/MCH



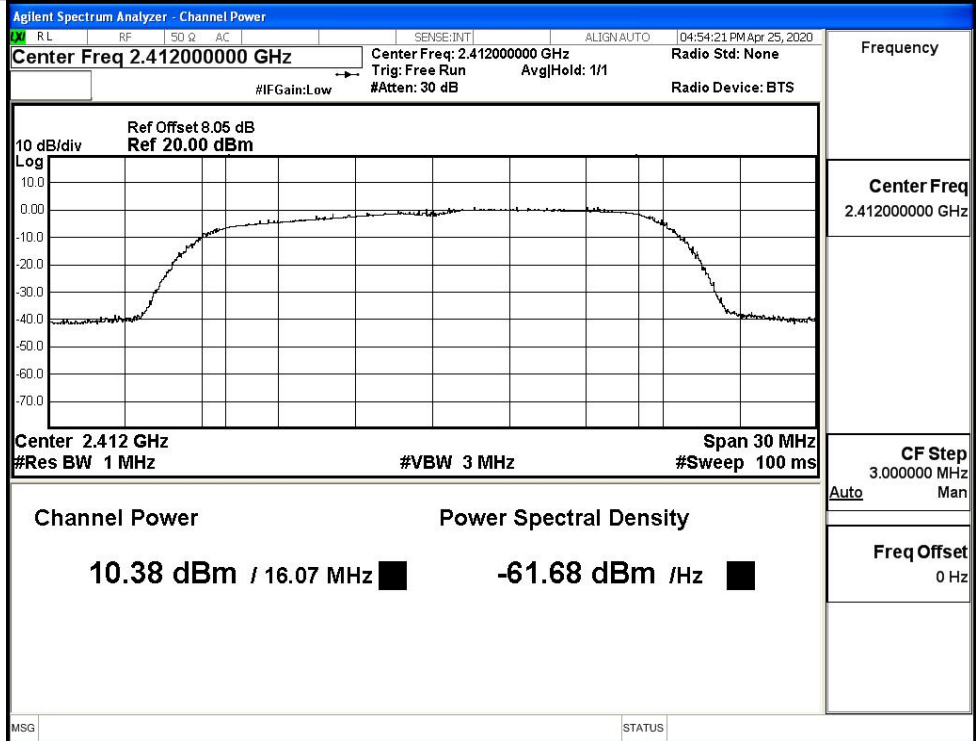
Frequency	2.43700000 GHz
Center Freq	2.43700000 GHz
CF Step	3.000000 MHz Auto Man
Freq Offset	0 Hz

11G/HCH



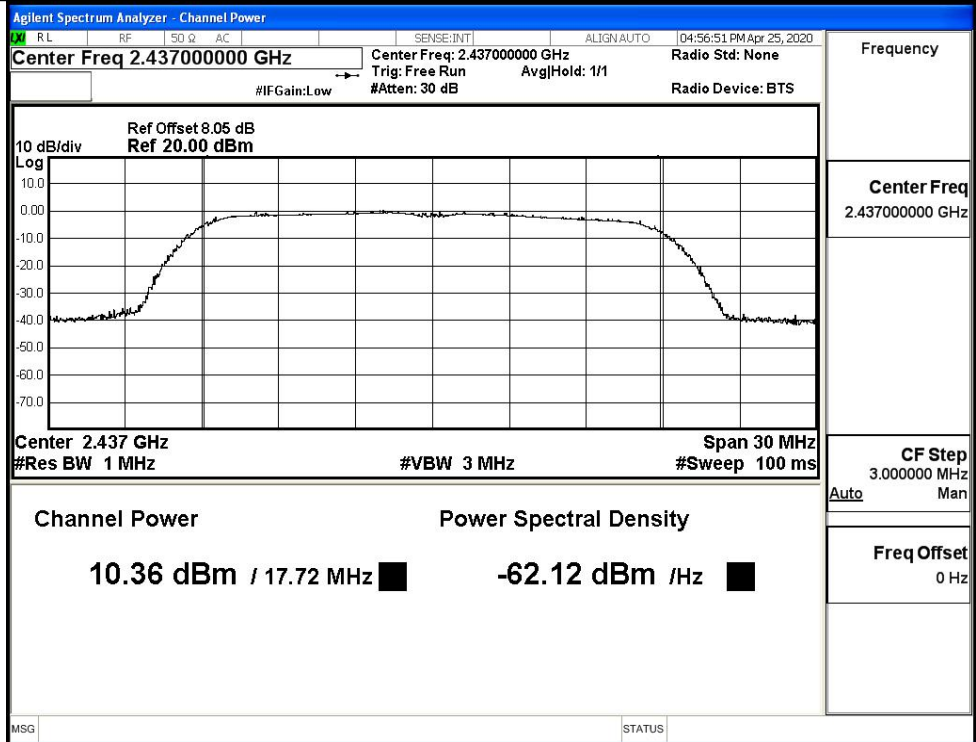
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz Auto Man
Freq Offset	0 Hz

11N20SISO/LCH



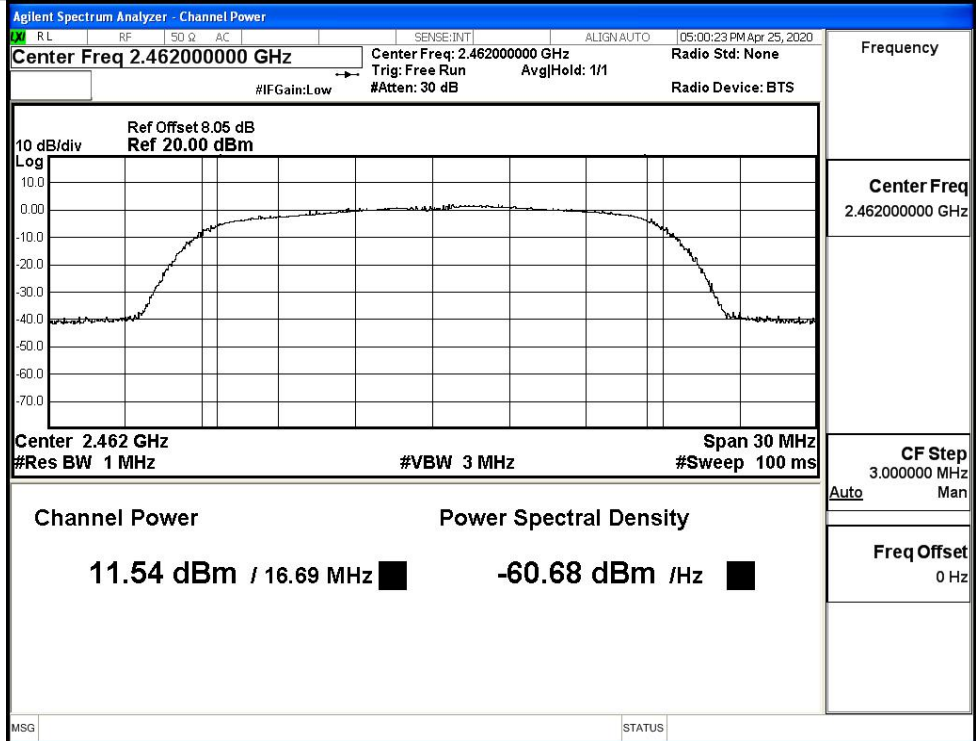
Frequency
Center Freq 2.41200000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11N20SISO/MCH



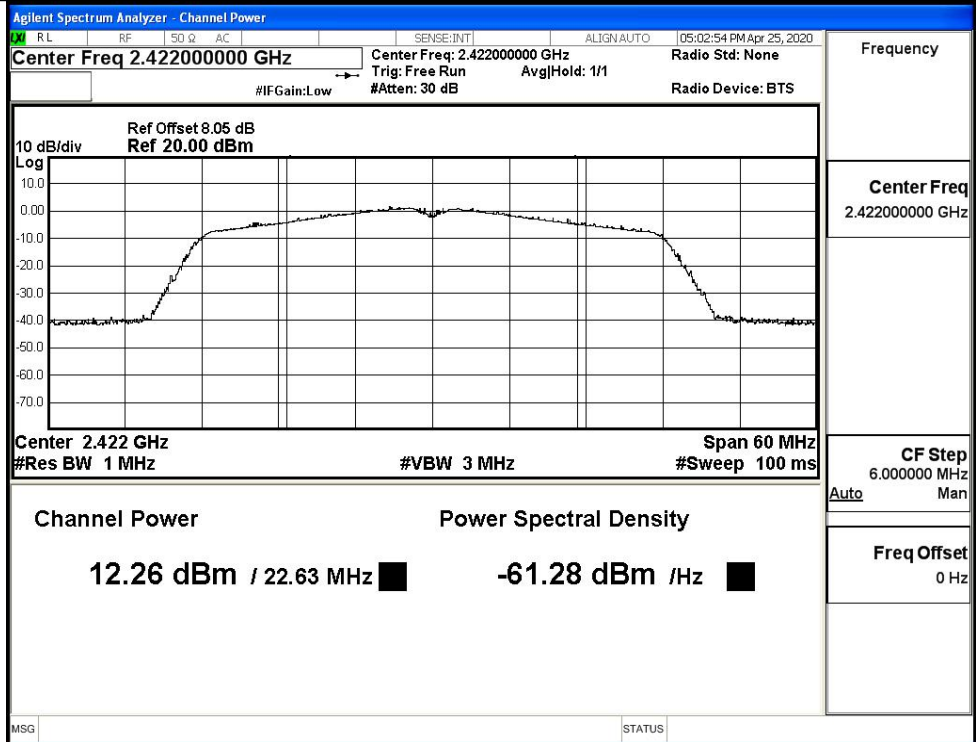
Frequency
Center Freq 2.43700000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11N20SISO/HCH



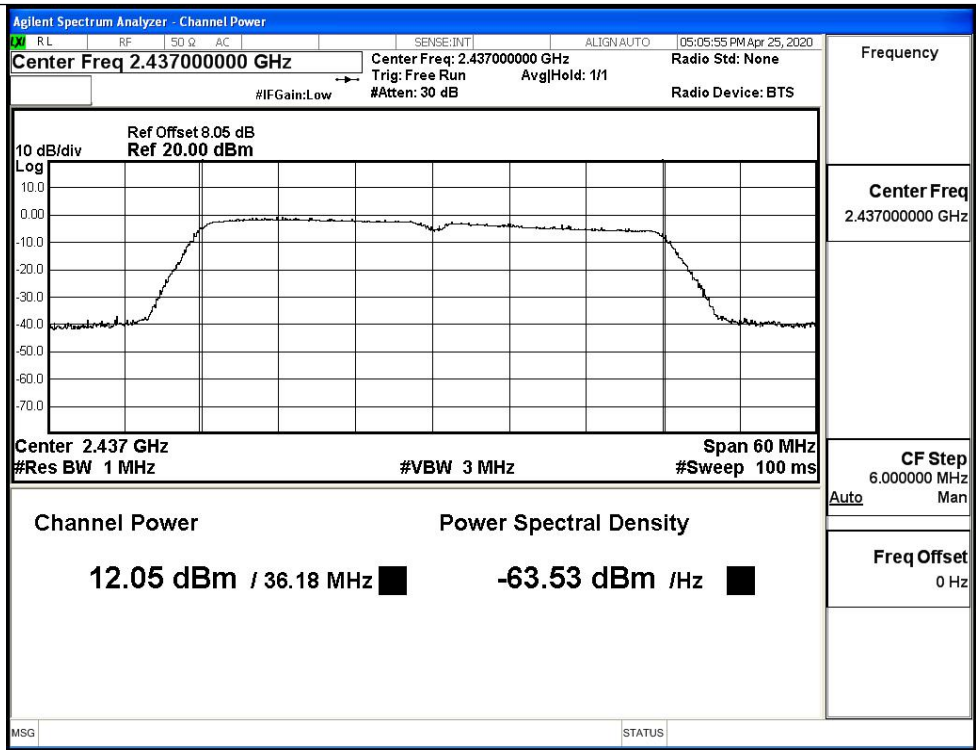
Frequency	2.462000000 GHz
Center Freq	2.462000000 GHz
CF Step	3.000000 MHz
	Auto Man
Freq Offset	0 Hz

11N40SISO/LCH

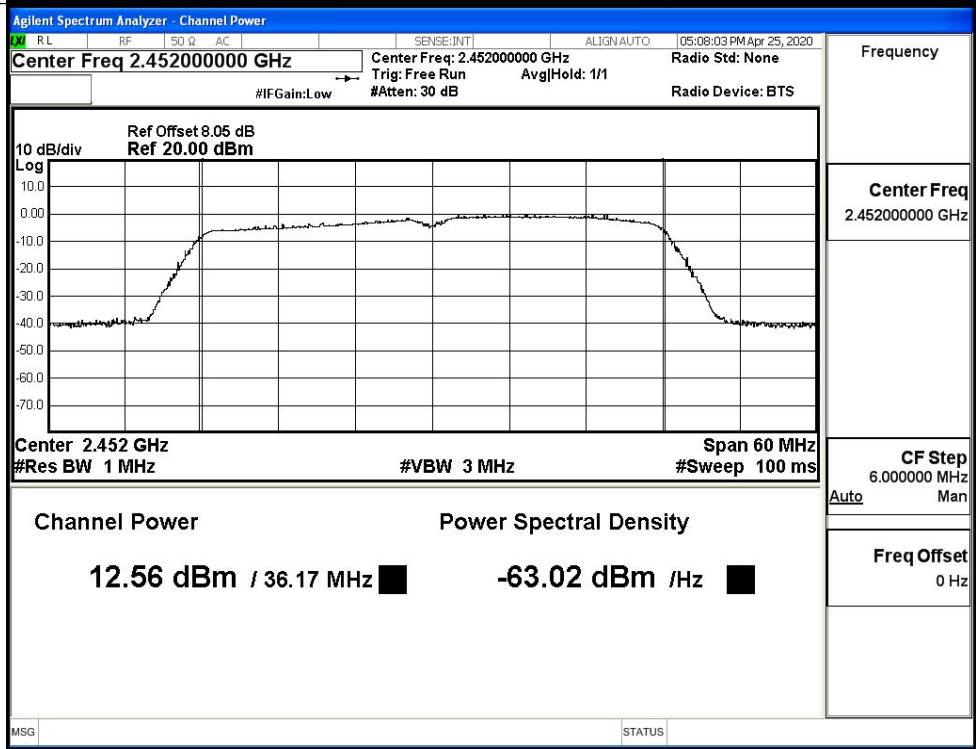


Frequency	2.422000000 GHz
Center Freq	2.422000000 GHz
CF Step	6.000000 MHz
	Auto Man
Freq Offset	0 Hz

11N40SISO/MCH



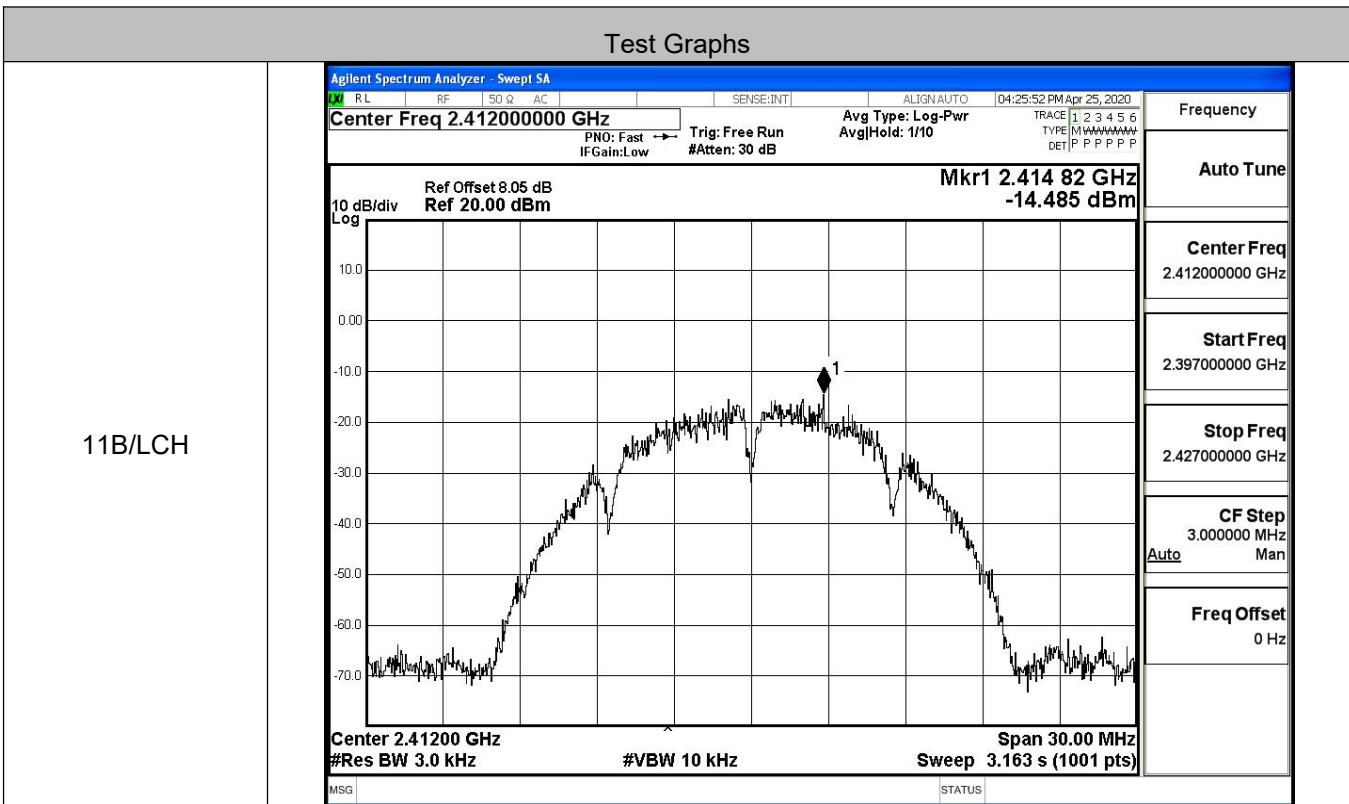
11N40SISO/HCH



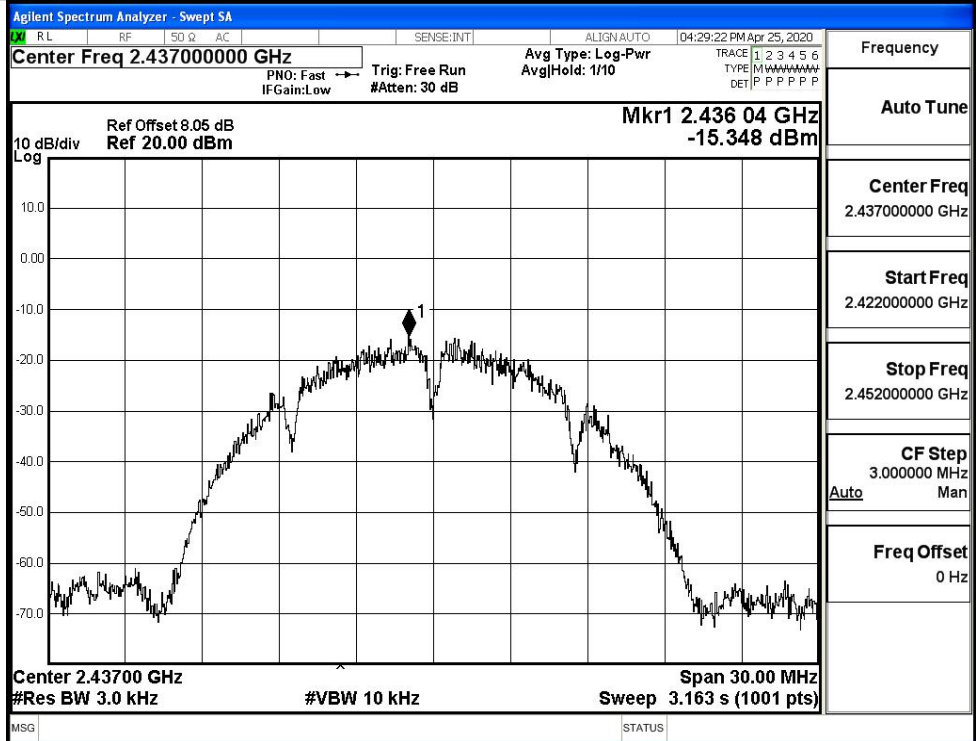
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-14.485	8	PASS
	MCH	-15.348	8	PASS
	HCH	-14.866	8	PASS
11G	LCH	-22.851	8	PASS
	MCH	-21.780	8	PASS
	HCH	-21.818	8	PASS
11N20SISO	LCH	-22.570	8	PASS
	MCH	-23.323	8	PASS
	HCH	-21.579	8	PASS
11N40SISO	LCH	-21.604	8	PASS
	MCH	-23.984	8	PASS
	HCH	-23.665	8	PASS

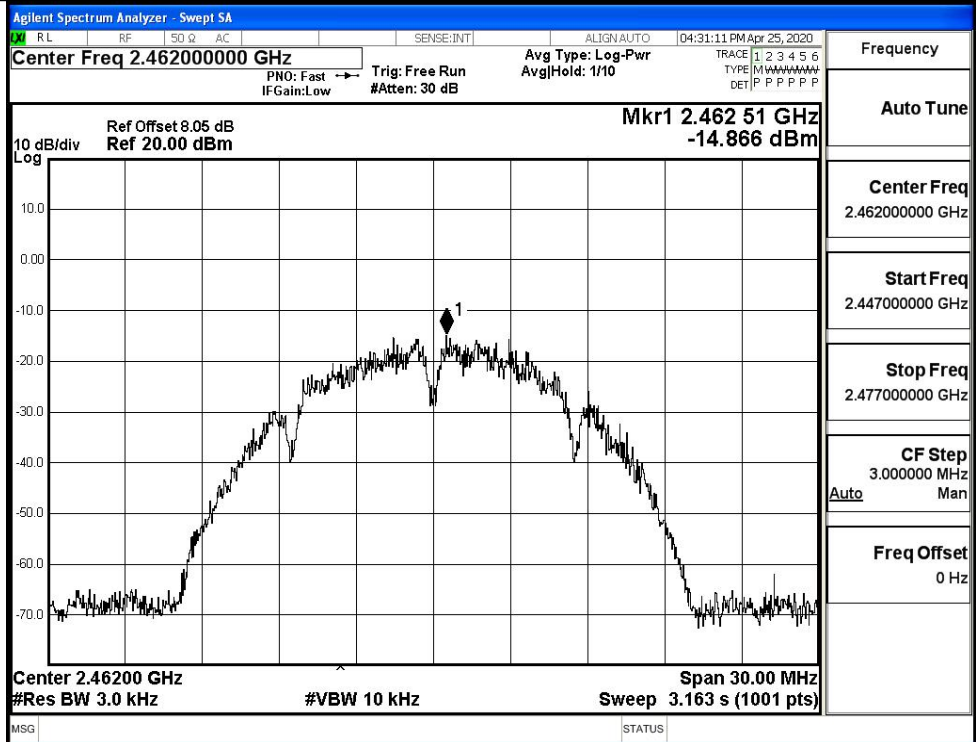
Test Graphs



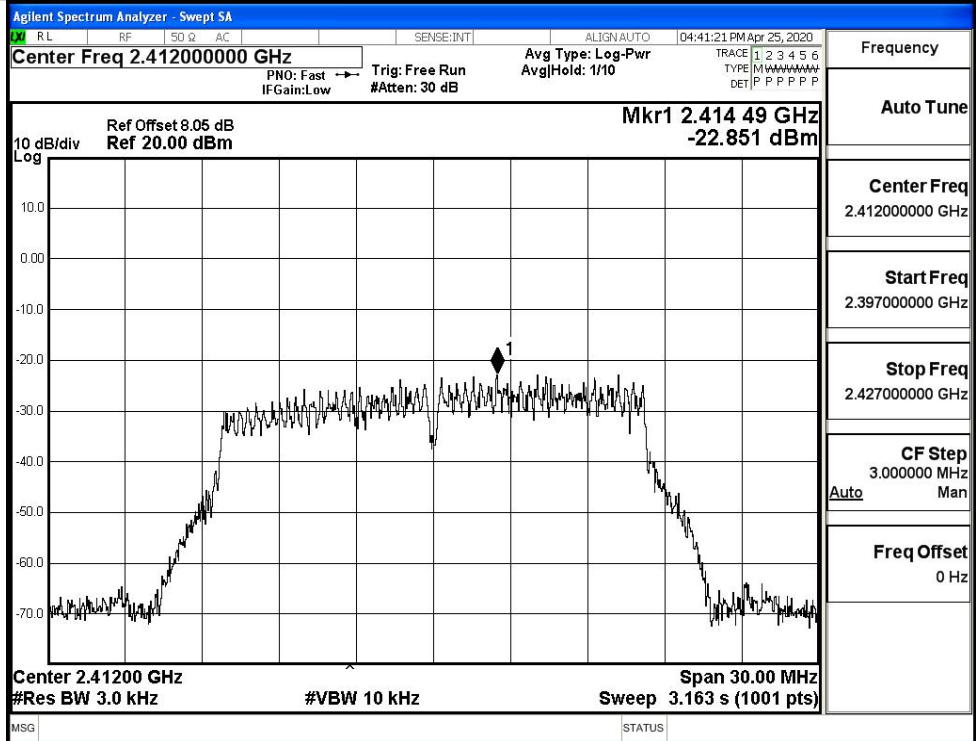
11B/MCH



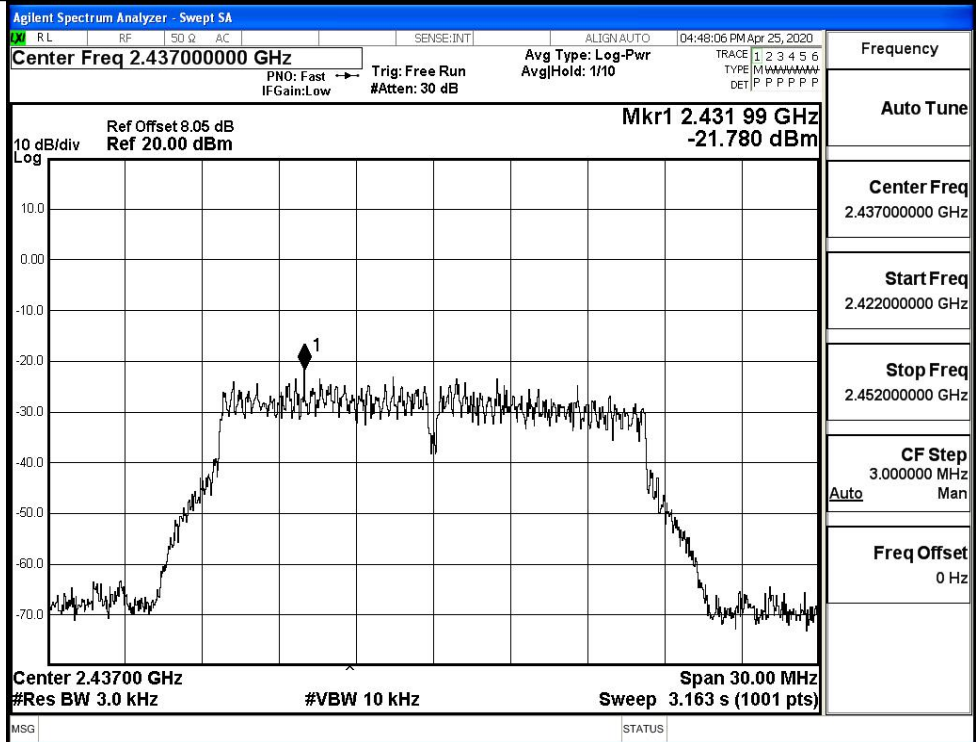
11B/HCH



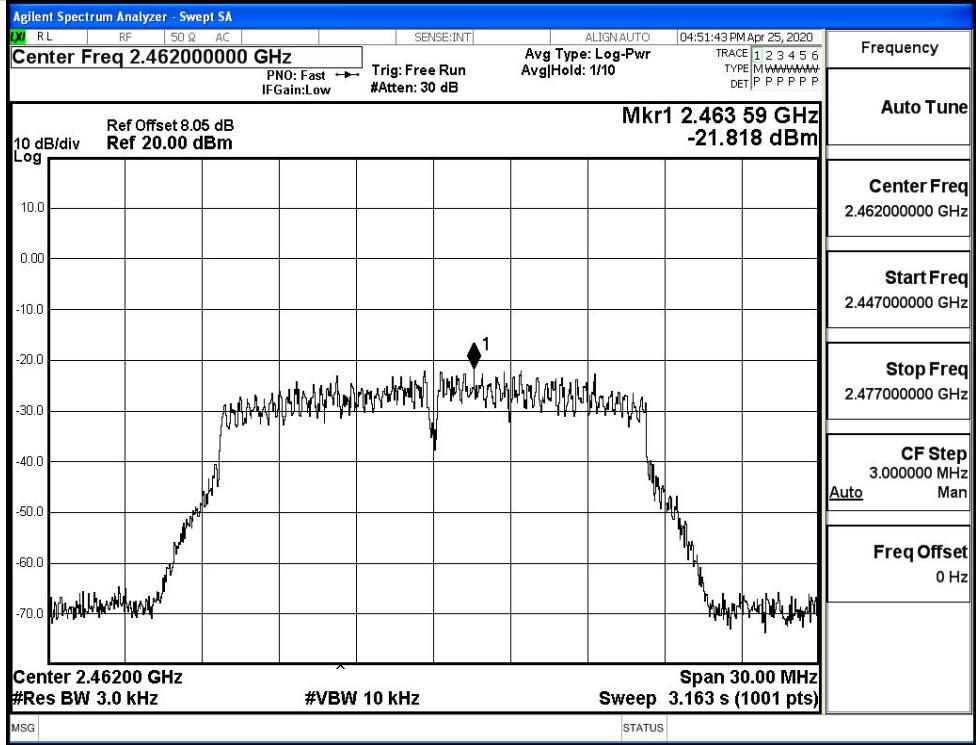
11G/LCH



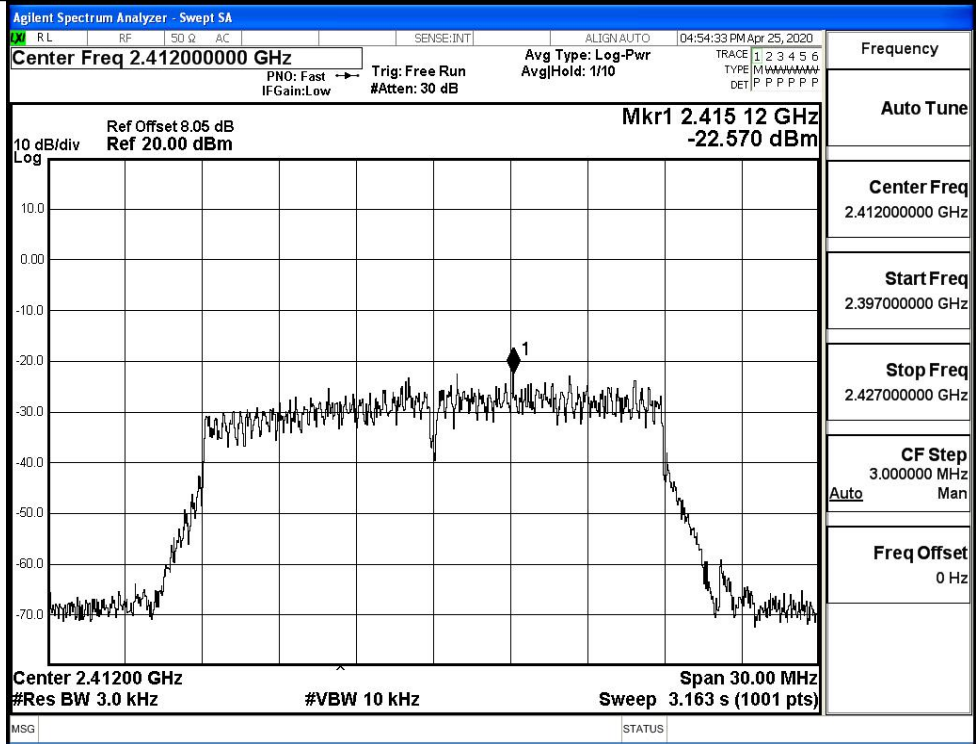
11G/MCH



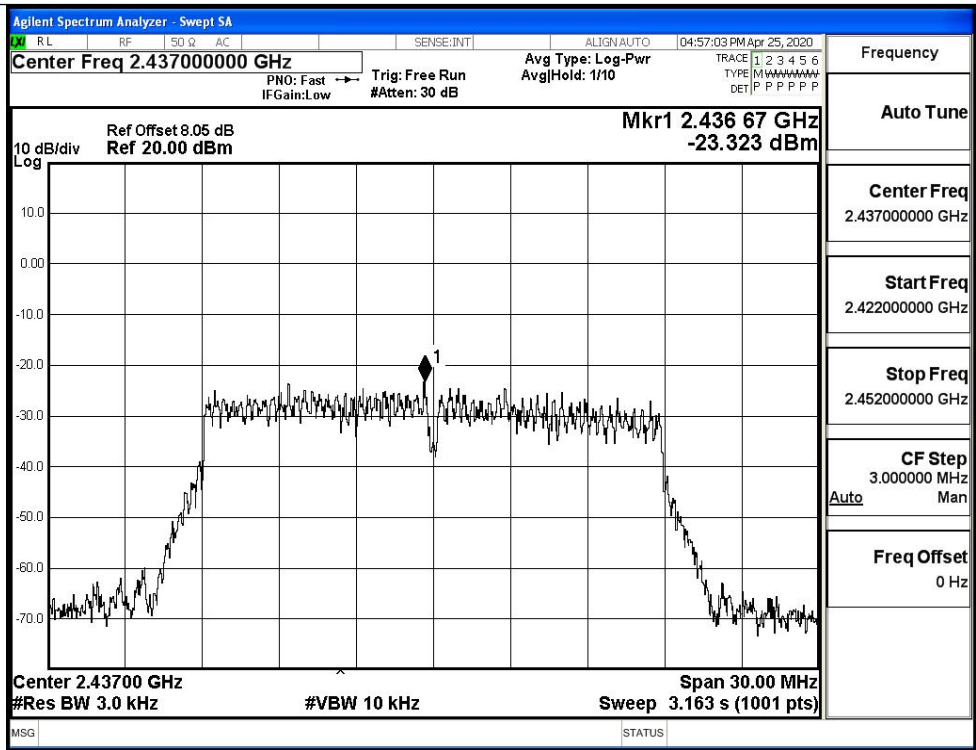
11G/HCH



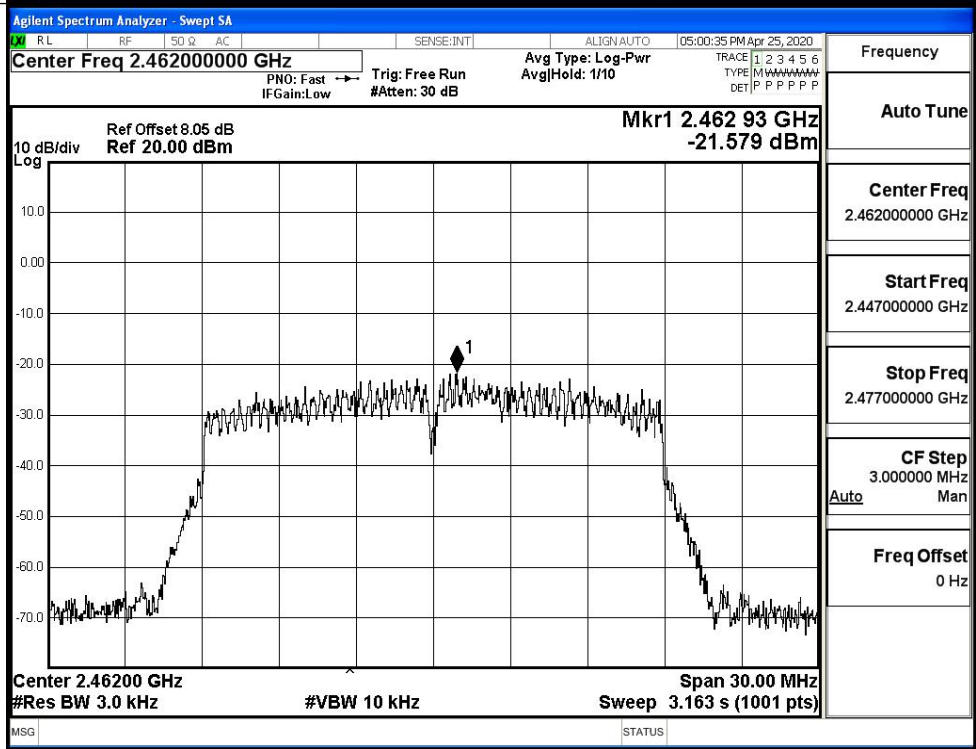
11N20SISO/LCH



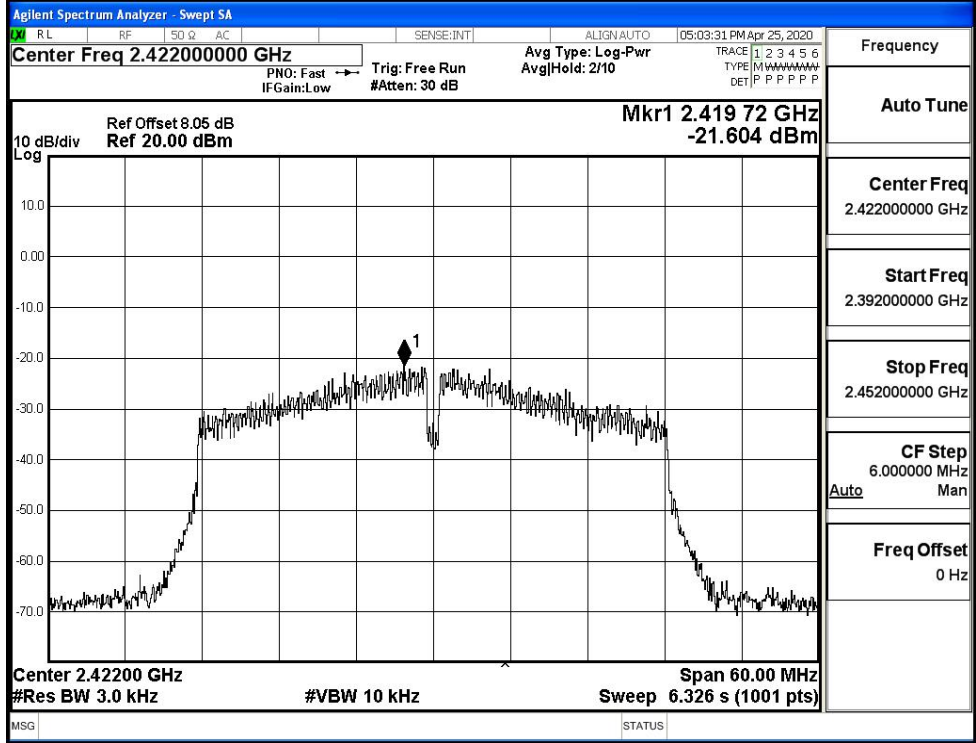
11N20SISO/MCH



11N20SISO/HCH

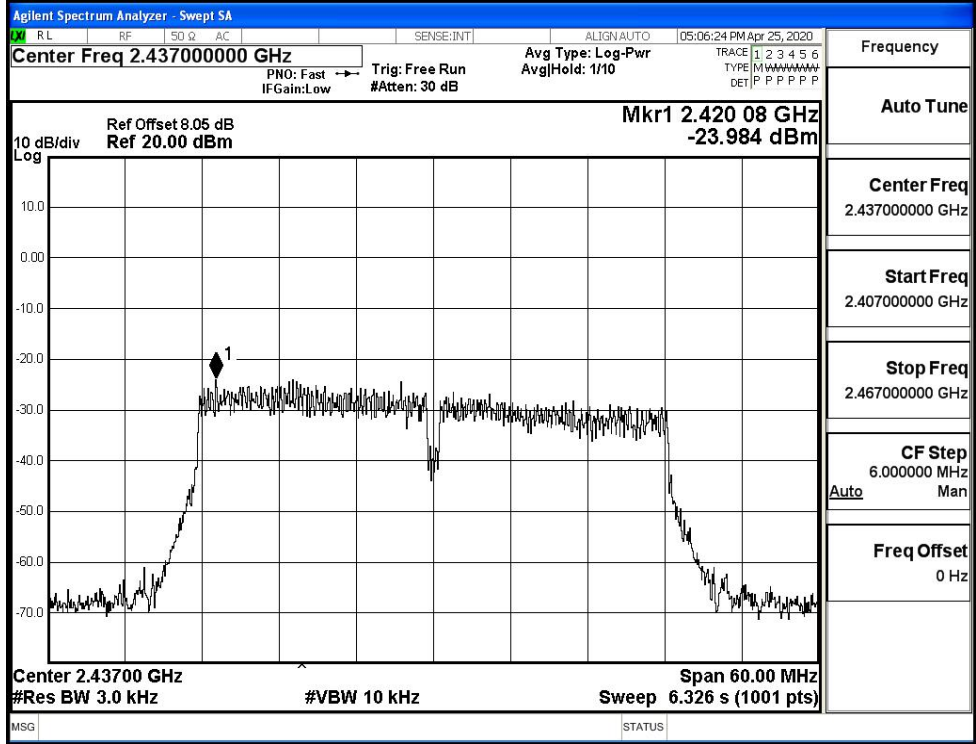


11N40SISO/LCH



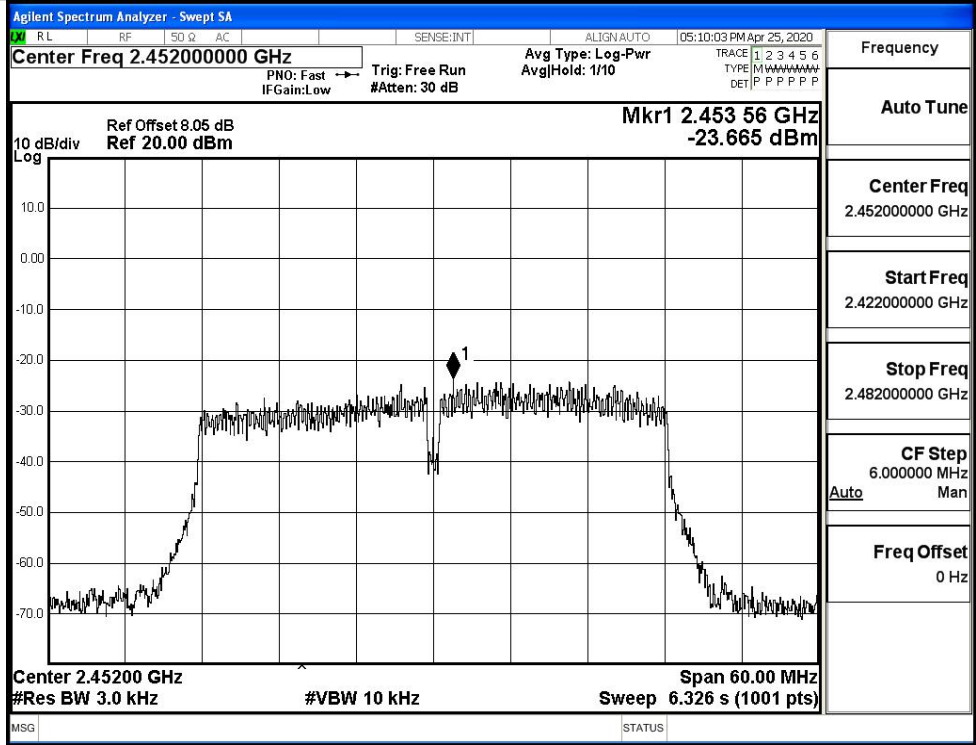
Frequency
Auto Tune
Center Freq 2.42200000 GHz
Start Freq 2.39200000 GHz
Stop Freq 2.45200000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

11N40SISO/MCH



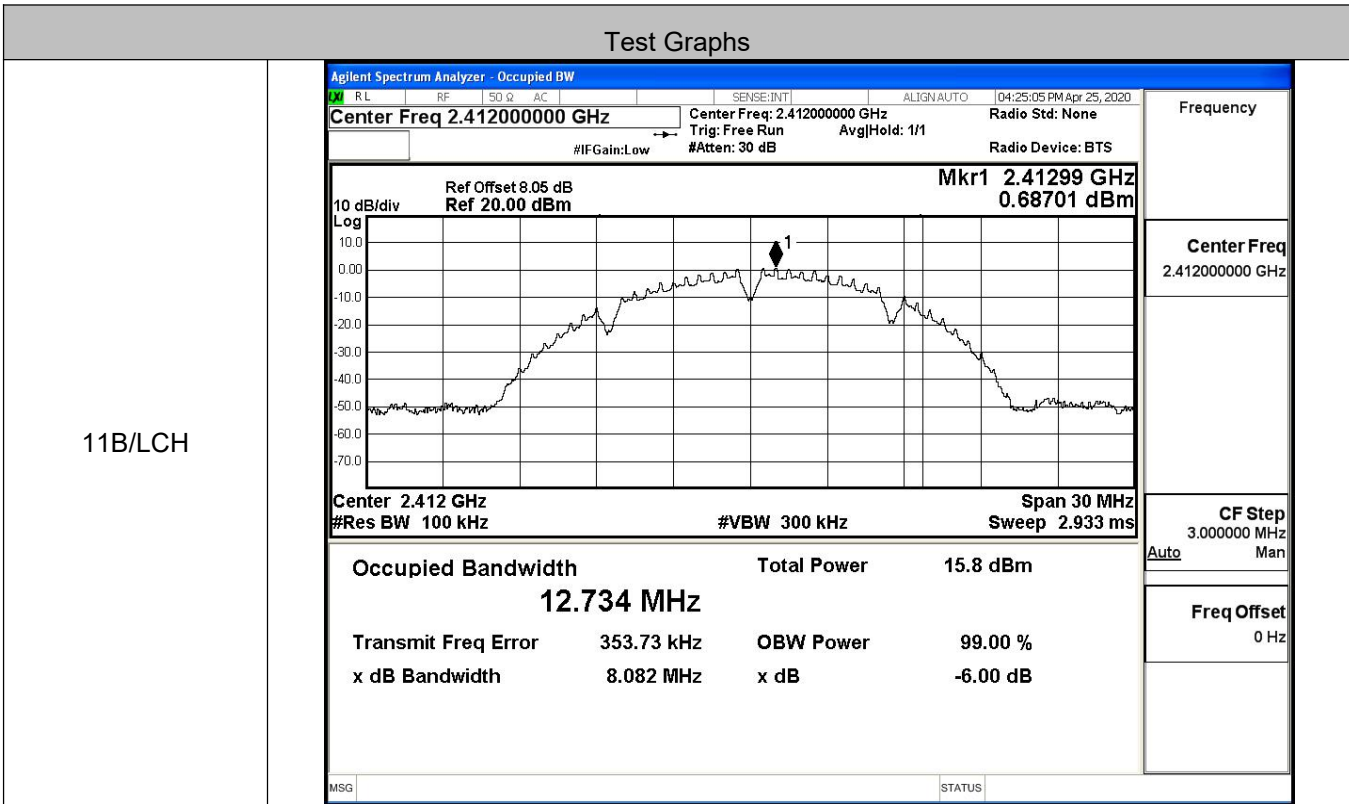
Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.40700000 GHz
Stop Freq 2.46700000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

11N40SISO/HCH

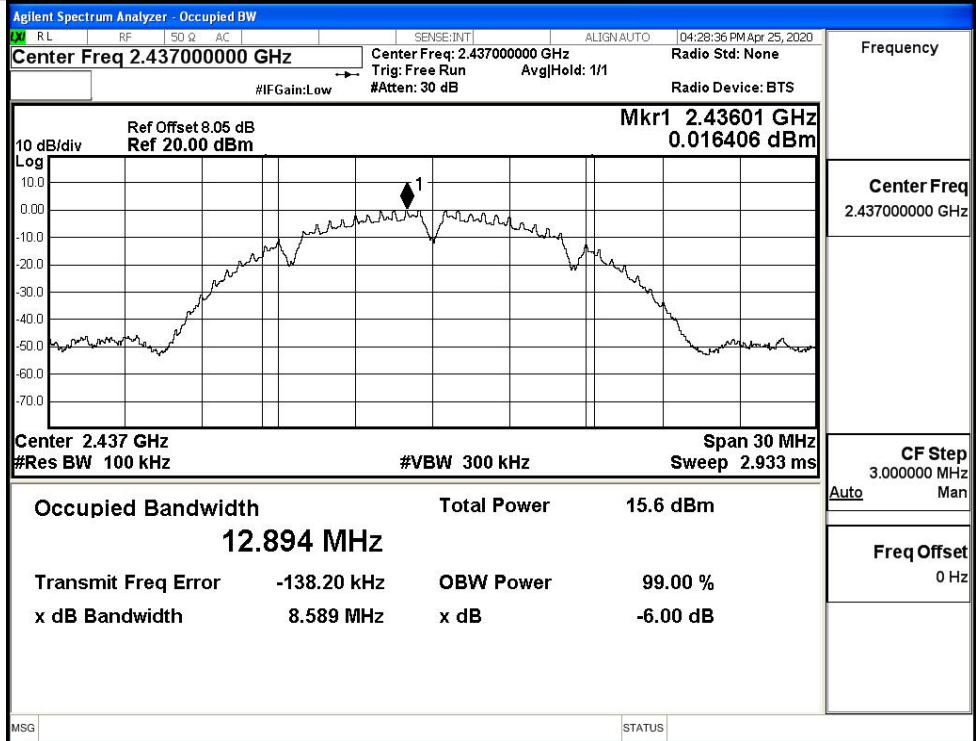


A.4 6dB Bandwidth

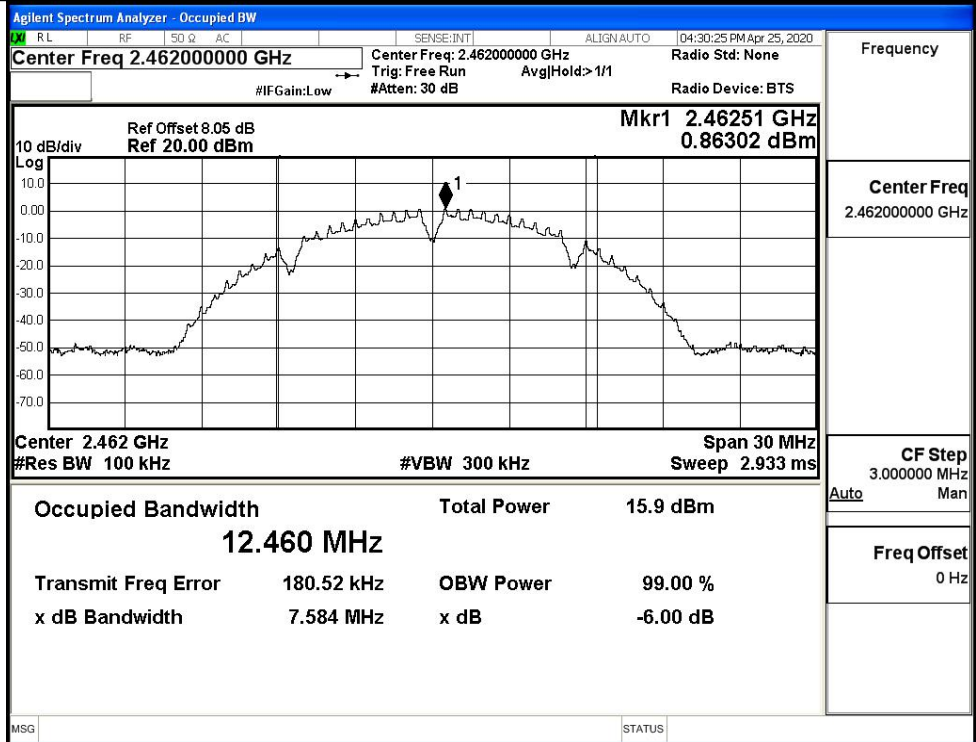
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.082	≥0.5	PASS
	MCH	8.589	≥0.5	PASS
	HCH	7.584	≥0.5	PASS
11G	LCH	15.56	≥0.5	PASS
	MCH	16.47	≥0.5	PASS
	HCH	15.46	≥0.5	PASS
11N20SISO	LCH	16.07	≥0.5	PASS
	MCH	17.72	≥0.5	PASS
	HCH	16.69	≥0.5	PASS
11N40SISO	LCH	36.12	≥0.5	PASS
	MCH	36.18	≥0.5	PASS
	HCH	36.17	≥0.5	PASS



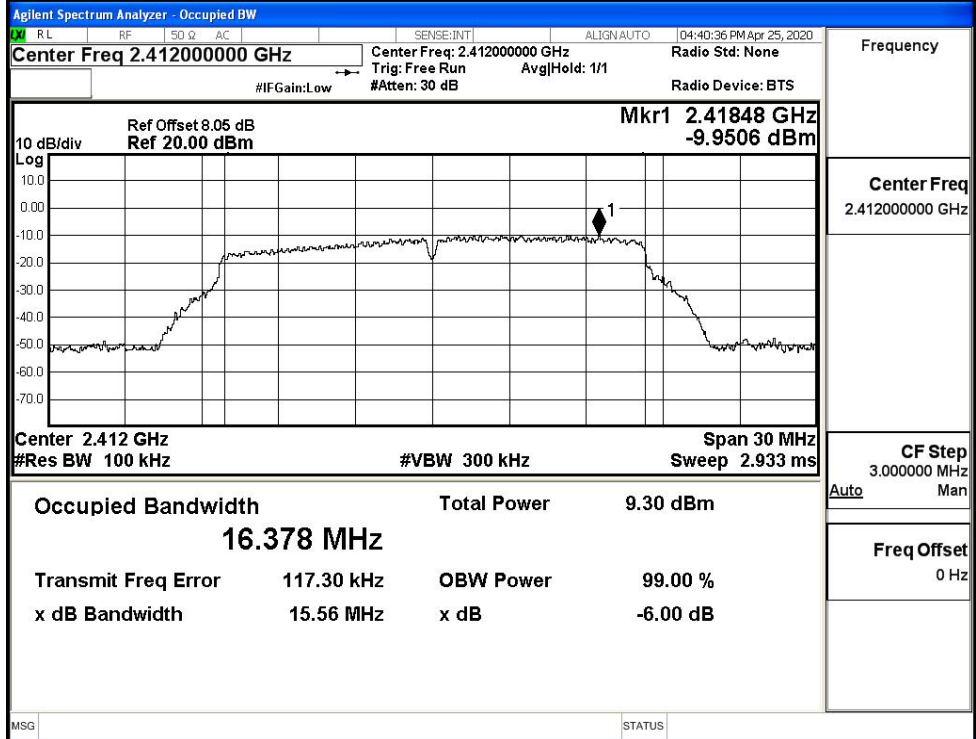
11B/MCH



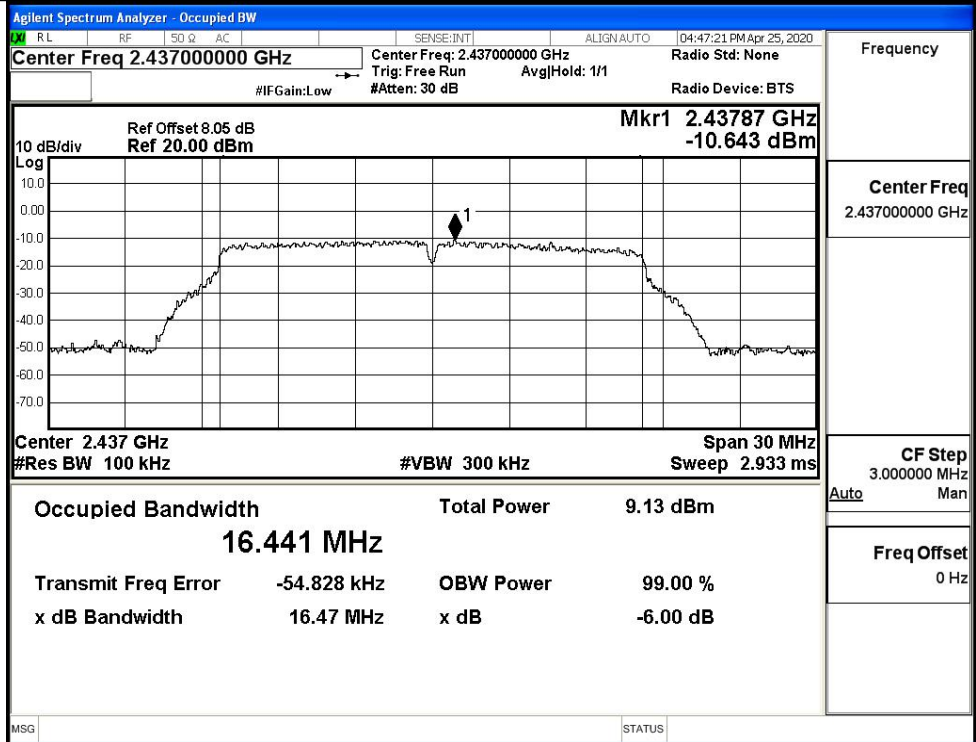
11B/HCH



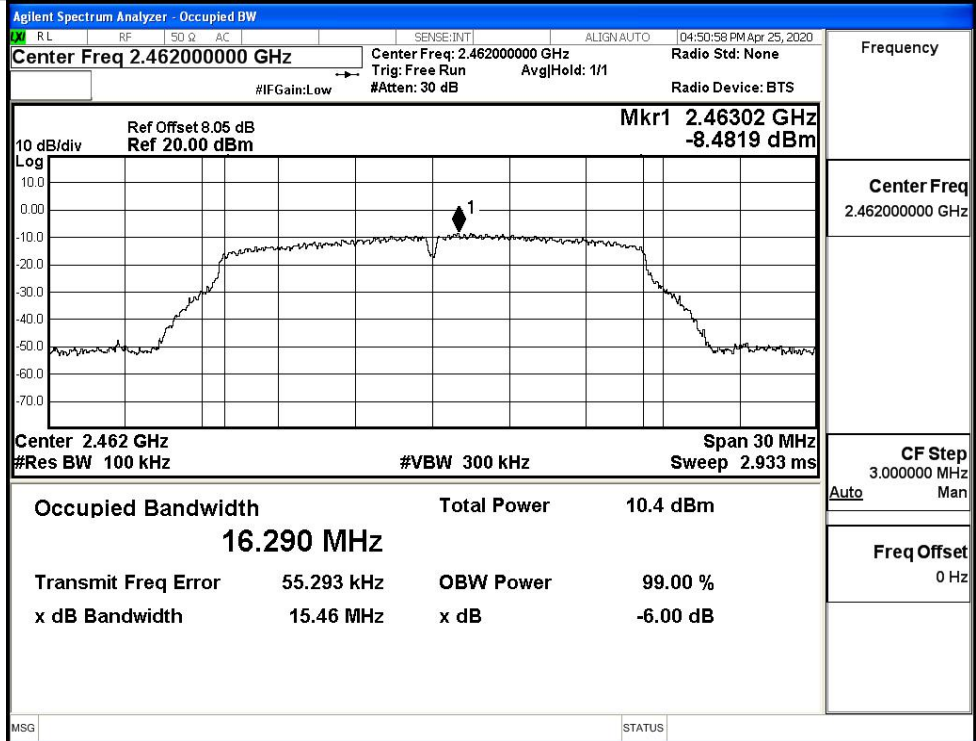
11G/LCH



11G/MCH

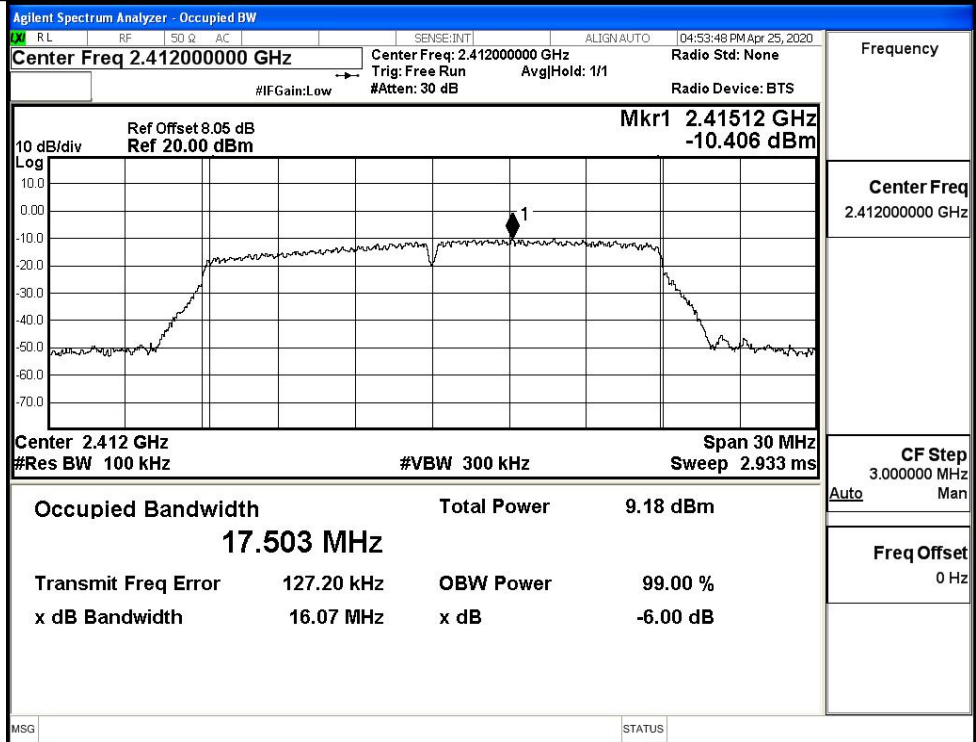


11G/HCH



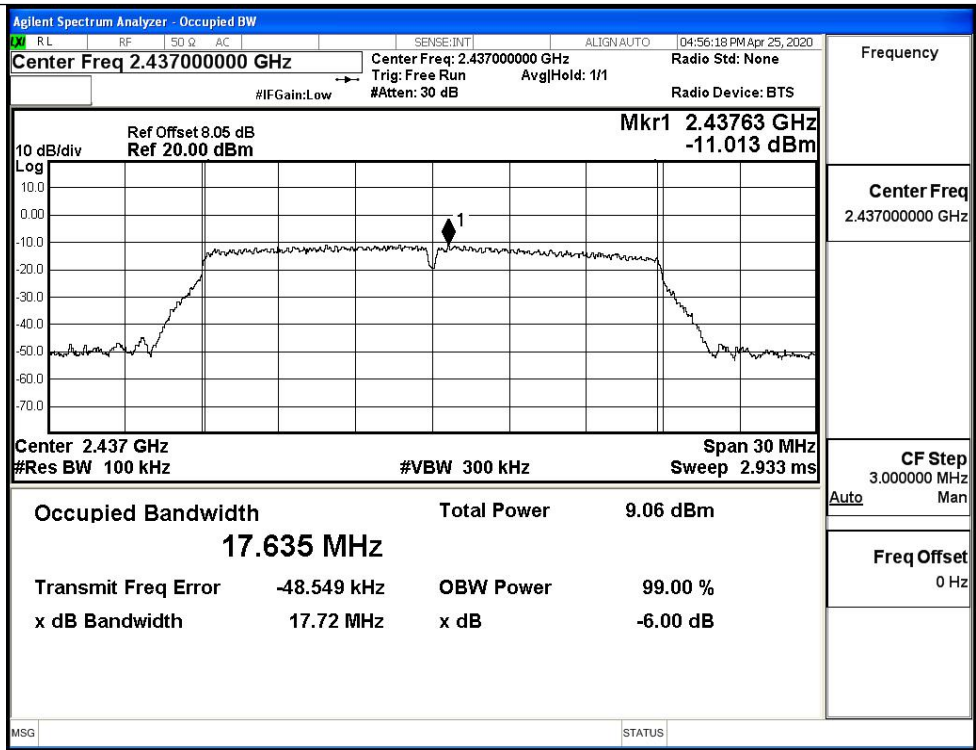
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

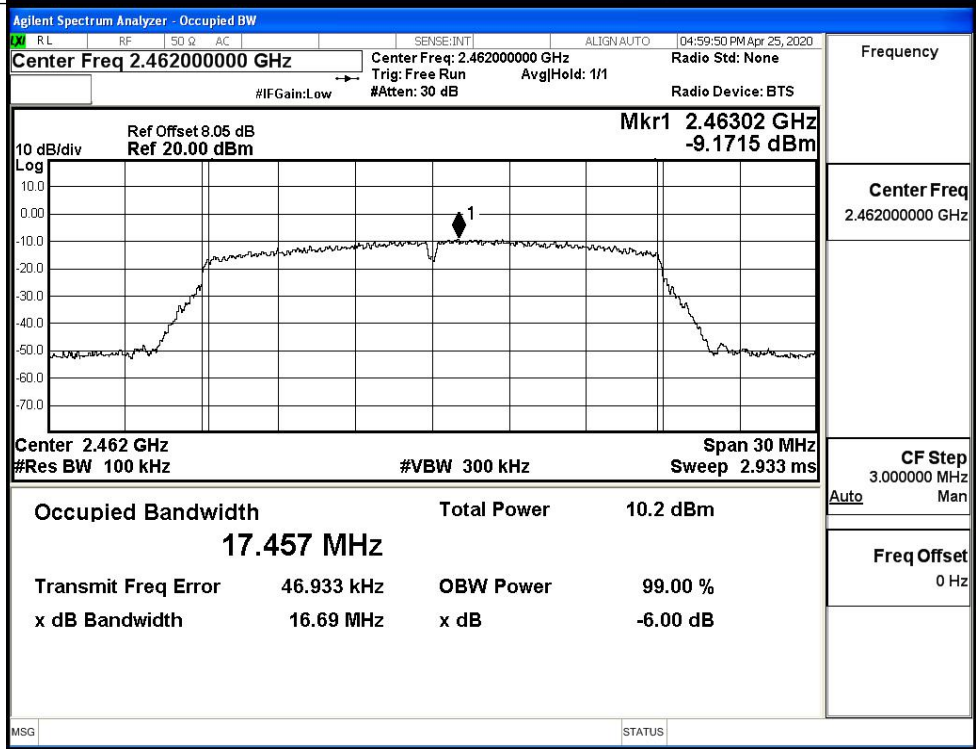


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

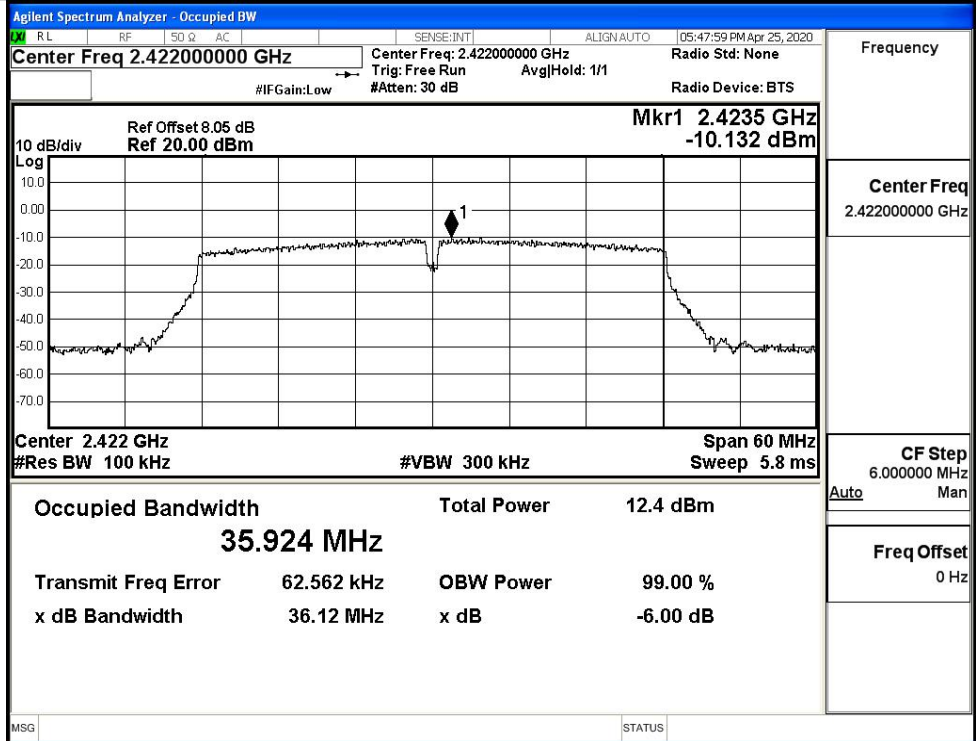
11N20SISO/MCH



11N20SISO/HCH

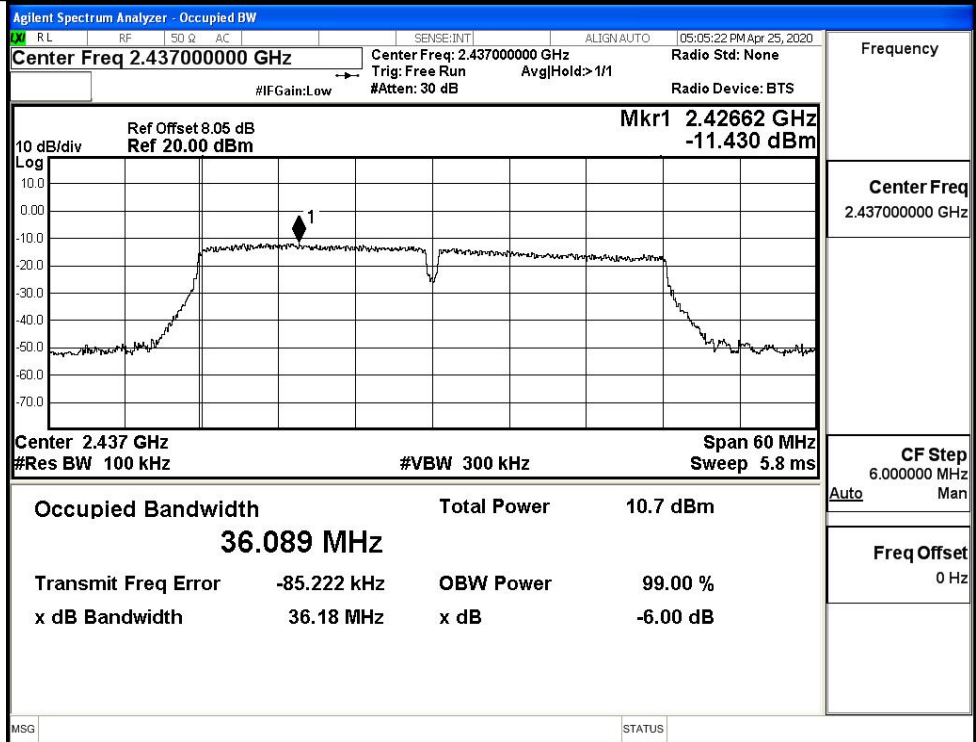


11N40SISO/LCH



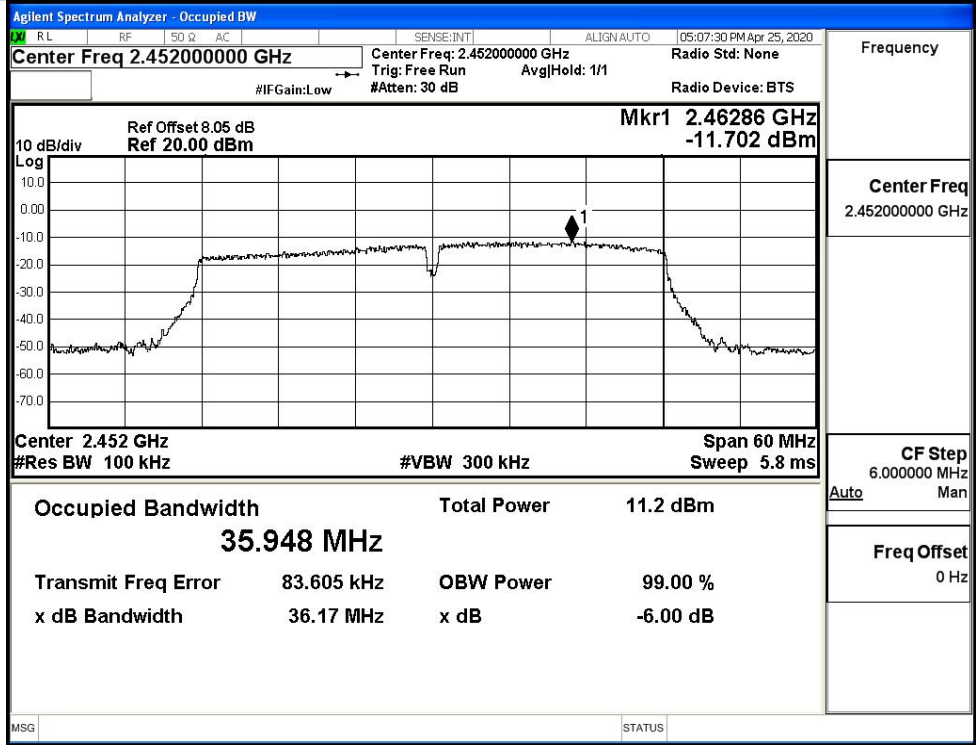
Frequency	2.42200000 GHz
Center Freq	2.42200000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N40SISO/MCH



Frequency	2.43700000 GHz
Center Freq	2.43700000 GHz
CF Step	6.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N40SISO/HCH

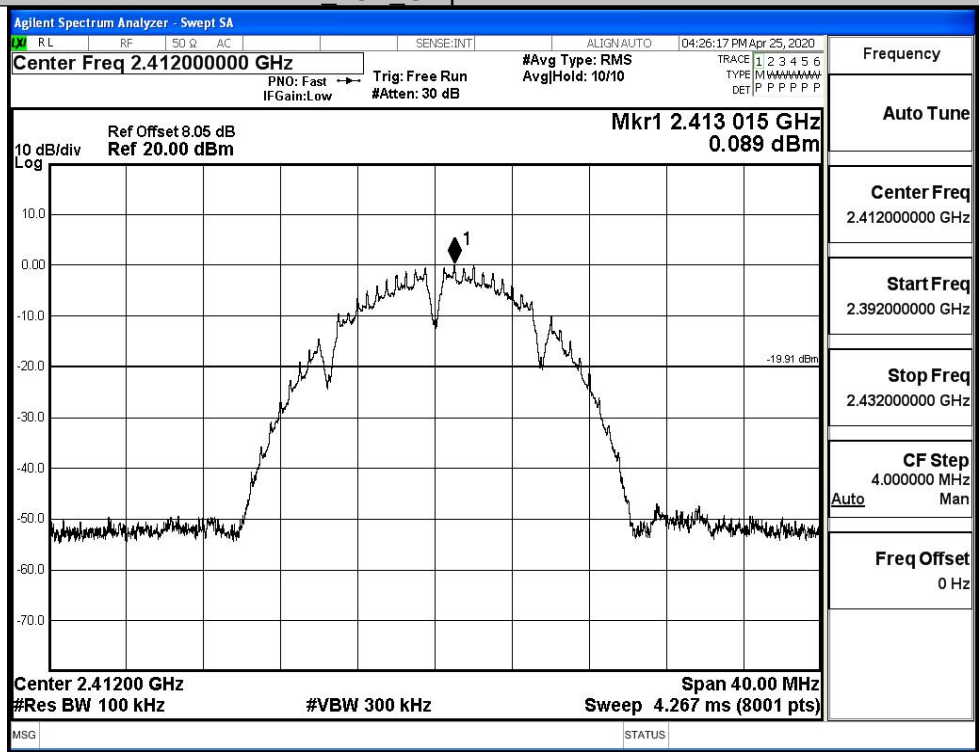


A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	0.089	-37.277	-19.911	PASS
	MCH	-0.179	-37.707	-20.179	PASS
	HCH	0.297	-34.234	-19.703	PASS
11G	LCH	-9.862	-36.822	-29.862	PASS
	MCH	-10.78	-38.068	-30.780	PASS
	HCH	-8.62	-38.506	-28.620	PASS
11N20 SISO	LCH	-10.695	-37.930	-30.695	PASS
	MCH	-11.405	-37.535	-31.405	PASS
	HCH	-9.051	-37.833	-29.051	PASS
11N40 SISO	LCH	-9.081	-37.973	-29.081	PASS
	MCH	-12.227	-37.714	-32.227	PASS
	HCH	-11.561	-37.737	-31.561	PASS

11B LCH Graphs

Pref/11B/LCH



Puw/11B/LCH

