

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: WIFI Switch Module

Trade Mark: N/A

Test Model: TB41

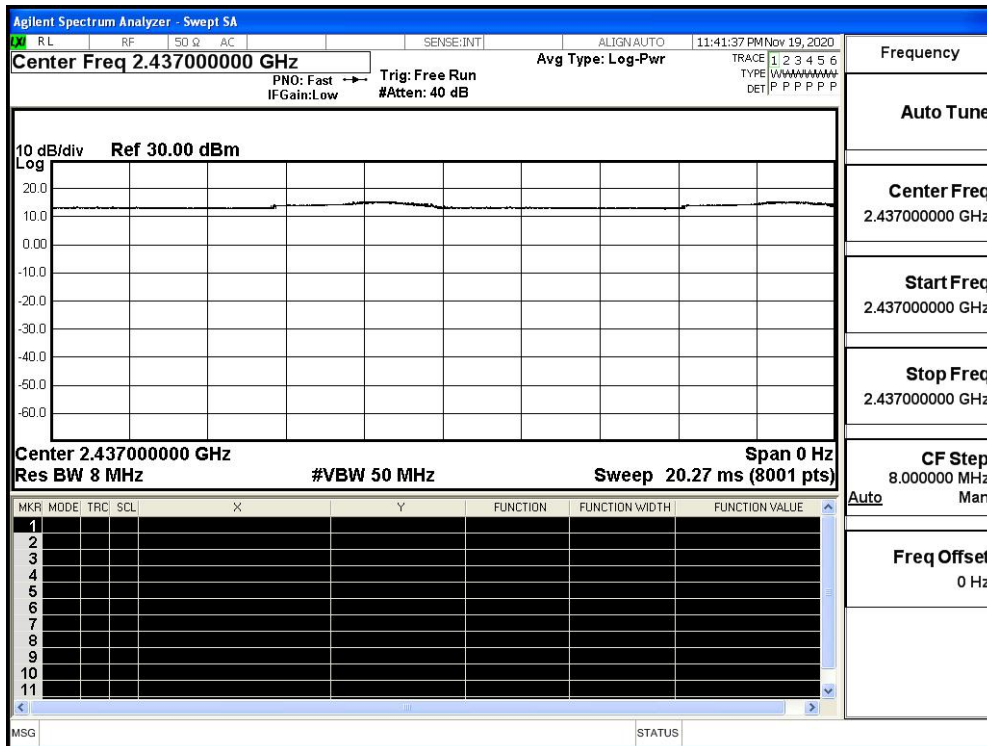
Environmental Conditions

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

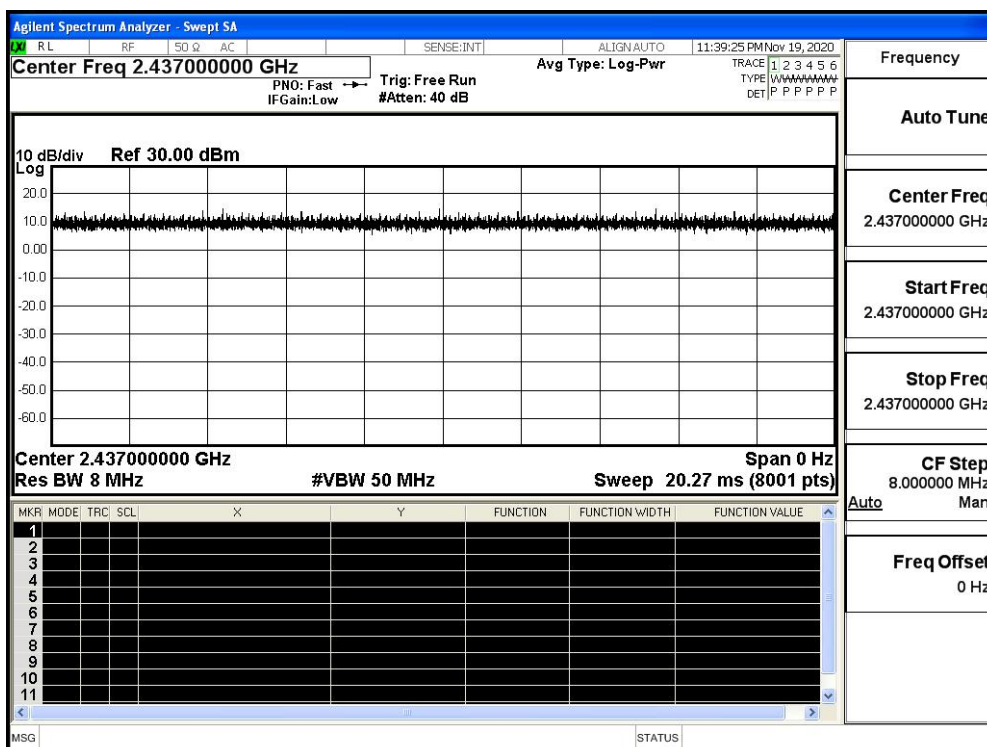
A.1 Duty Cycle

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

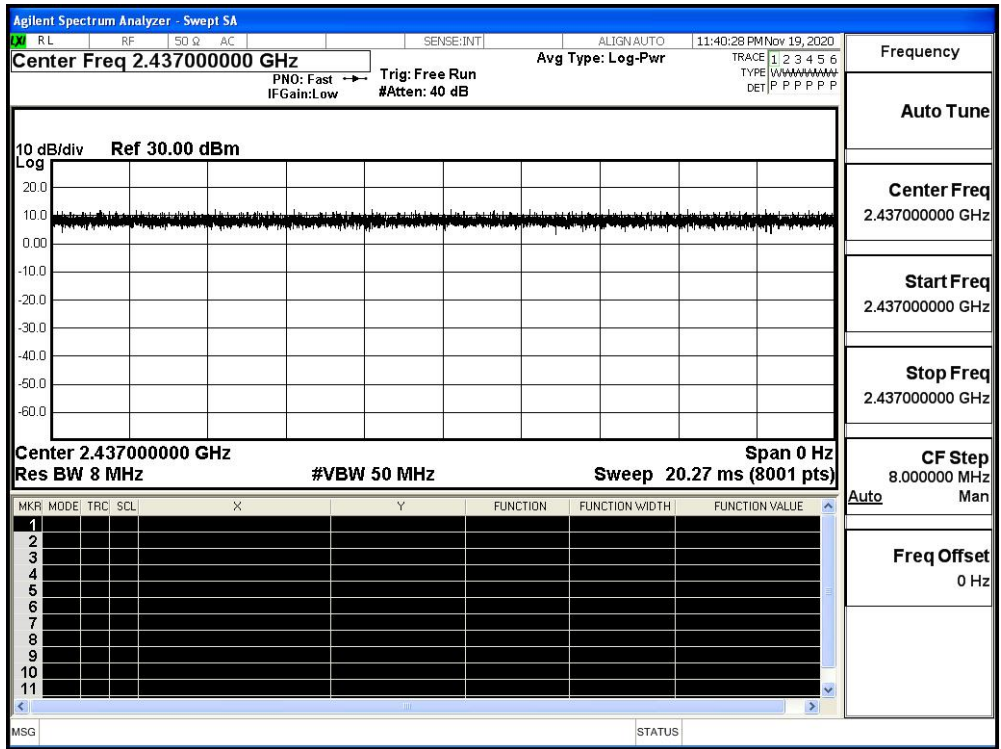
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1

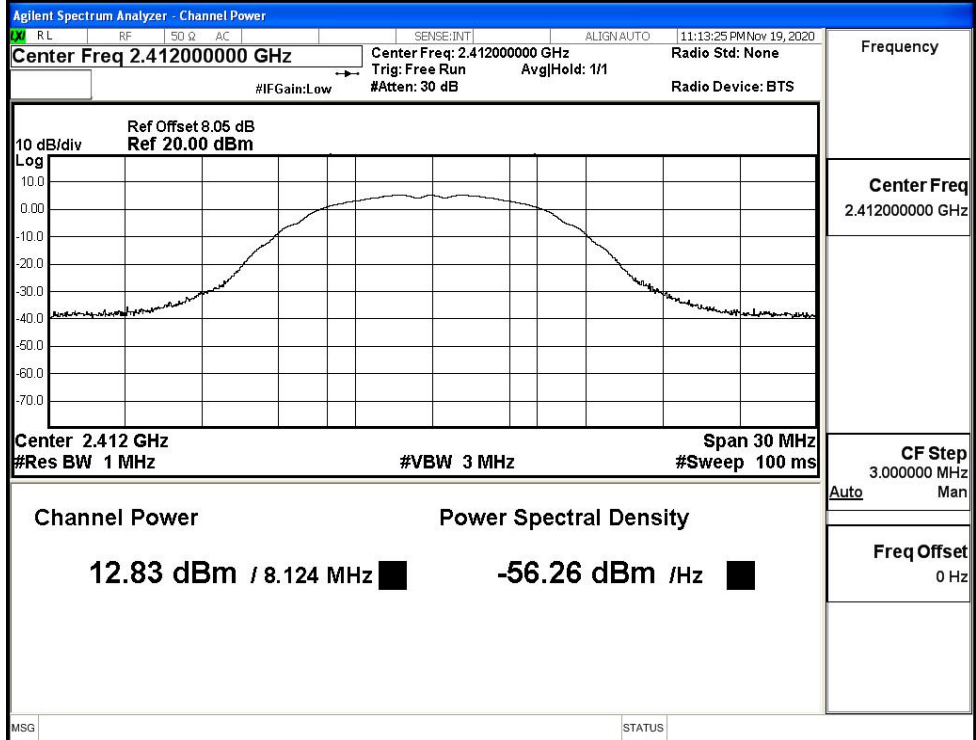


A.2 Maximum Conducted Output Power

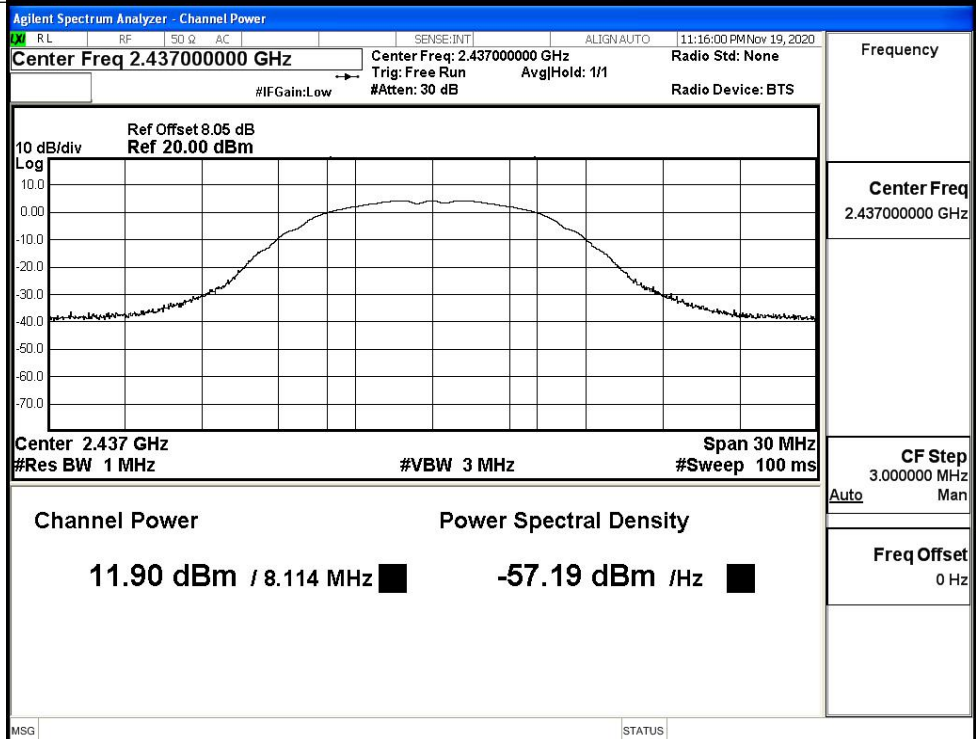
Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	12.83	30	PASS
	MCH	11.9	30	PASS
	HCH	11.63	30	PASS
11G	LCH	13.2	30	PASS
	MCH	11.85	30	PASS
	HCH	11.57	30	PASS
11N20SISO	LCH	13.1	30	PASS
	MCH	11.86	30	PASS
	HCH	11.52	30	PASS

Test Graphs

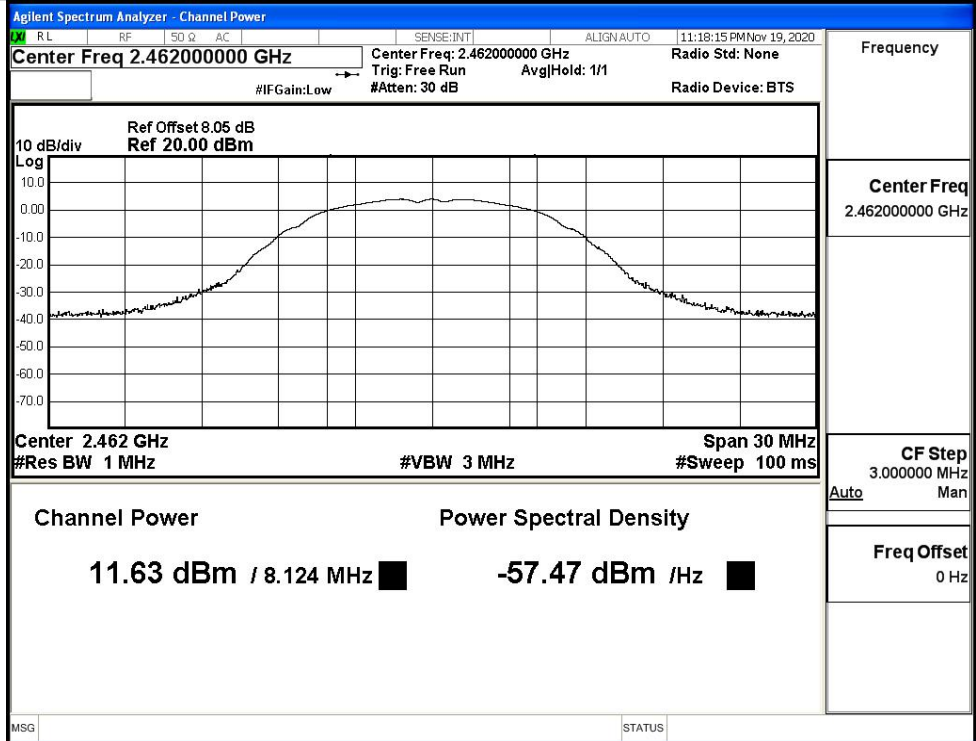
11B/LCH



11B/MCH

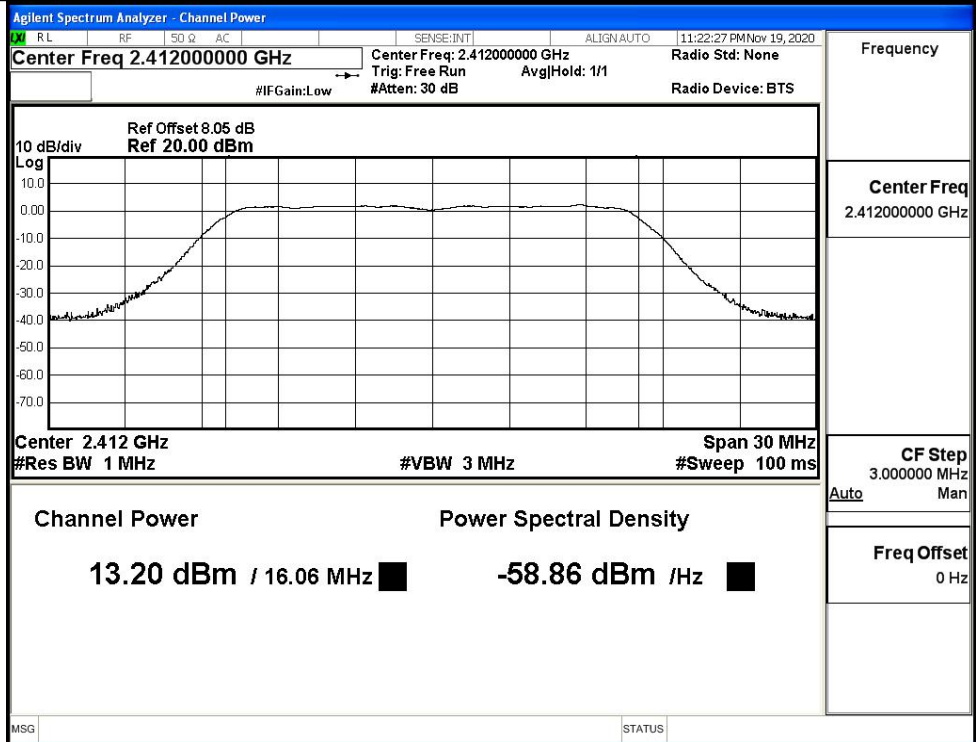


11B/HCH



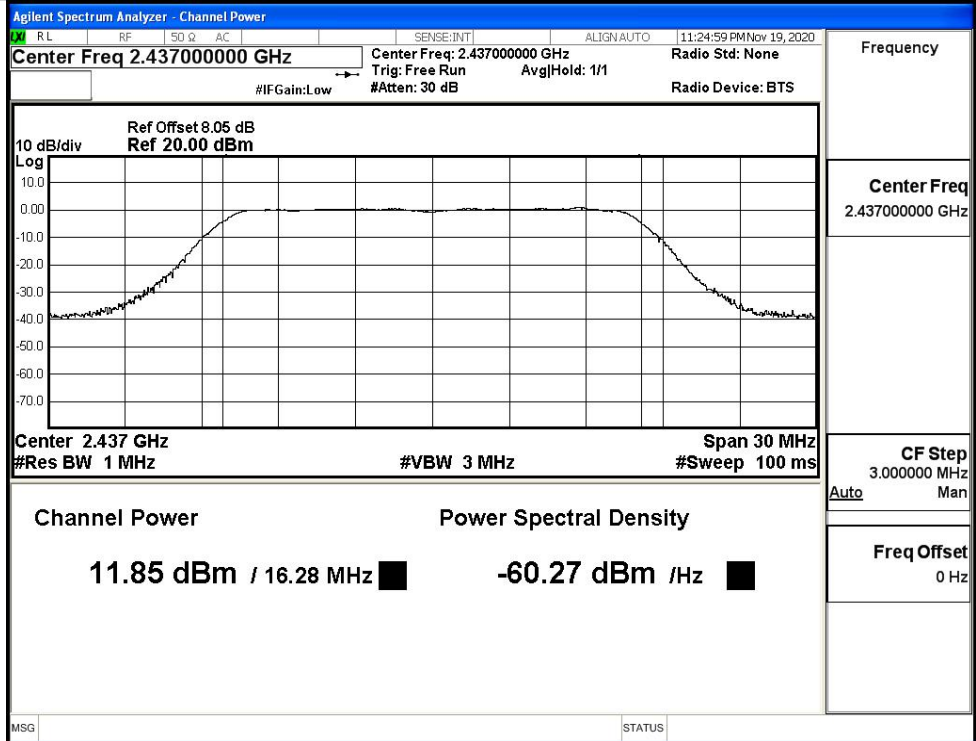
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11G/LCH



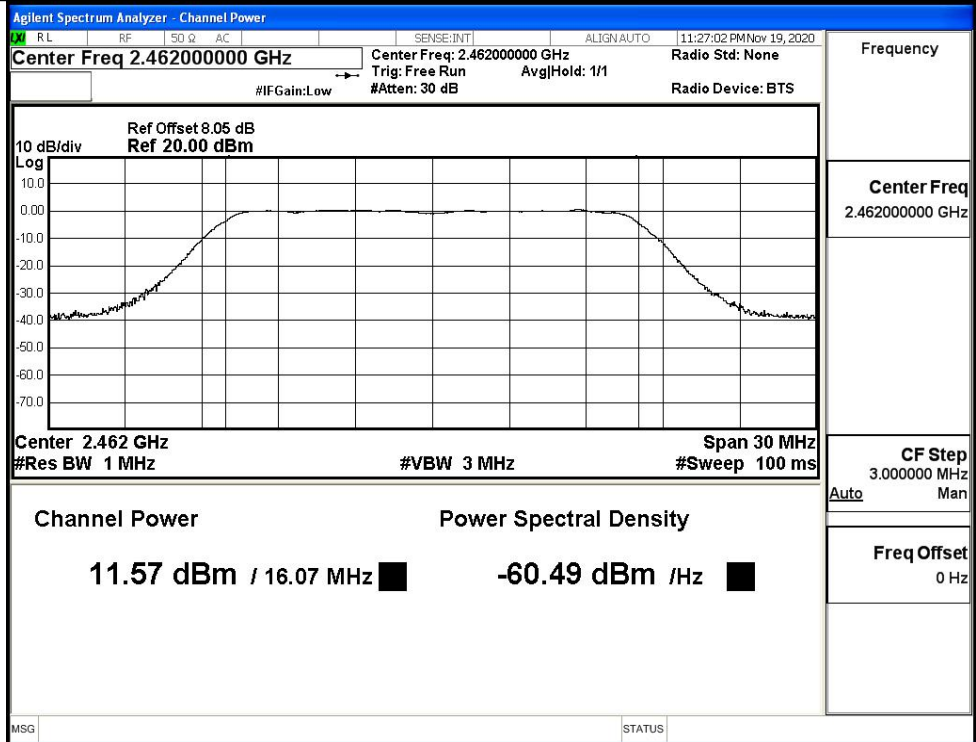
Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11G/MCH



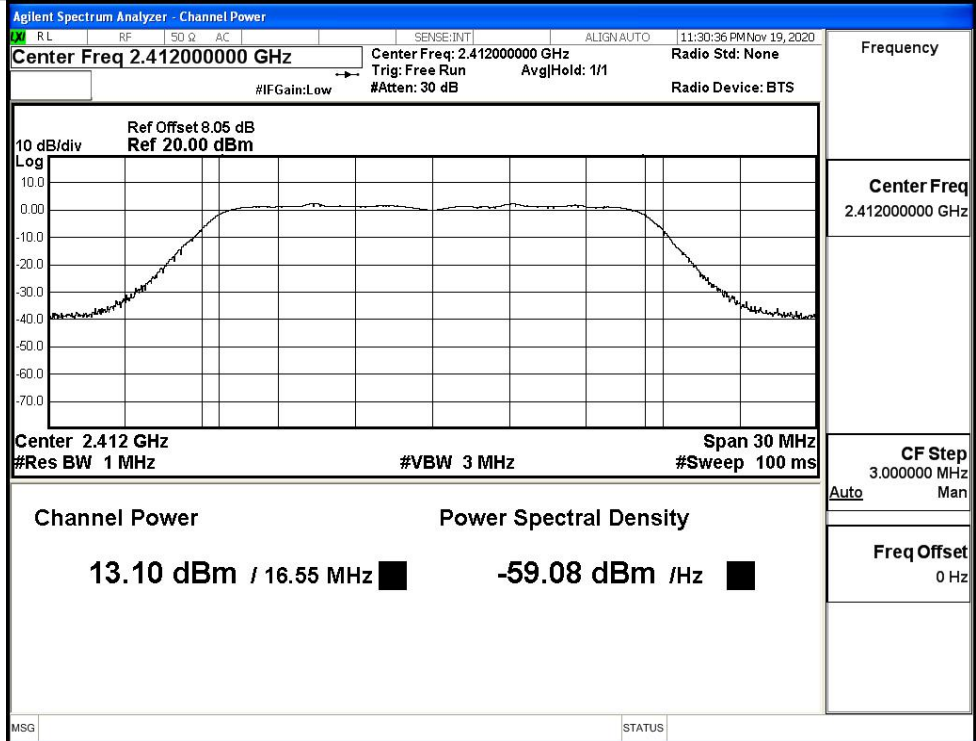
Frequency	2.437000000 GHz
Center Freq	2.437000000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11G/HCH



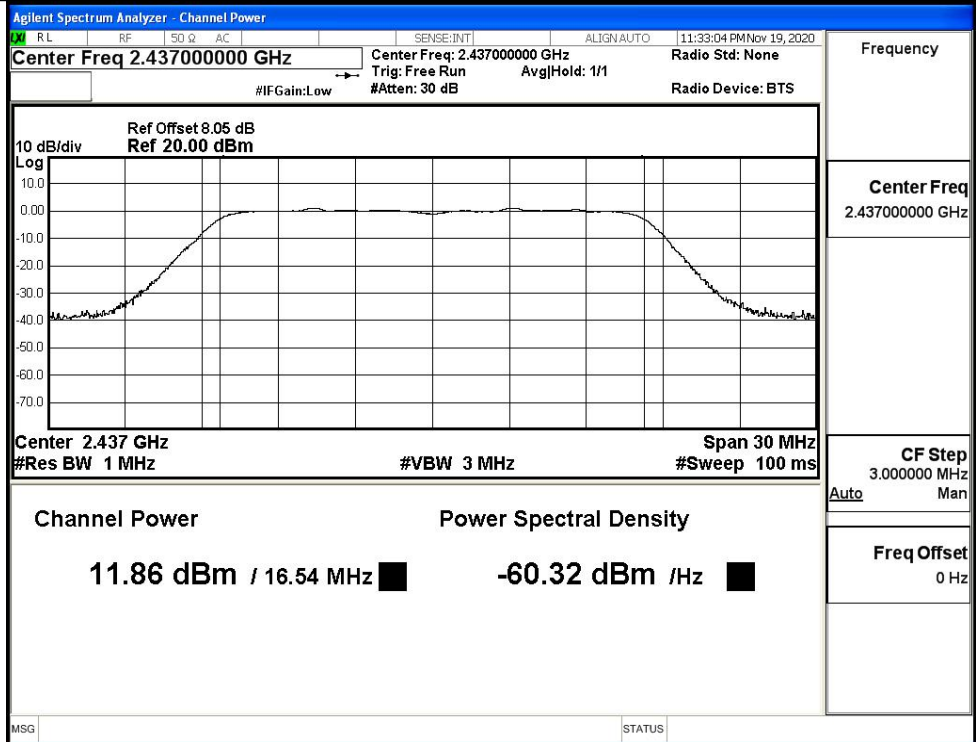
Frequency	2.462000000 GHz
Center Freq	2.462000000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH



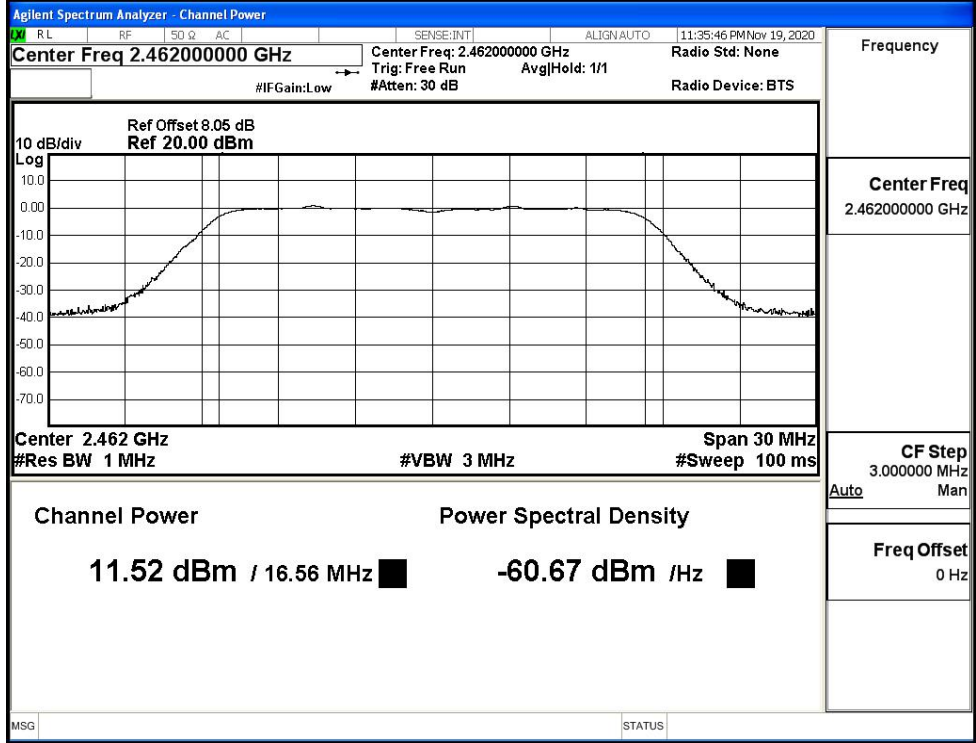
Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/MCH



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

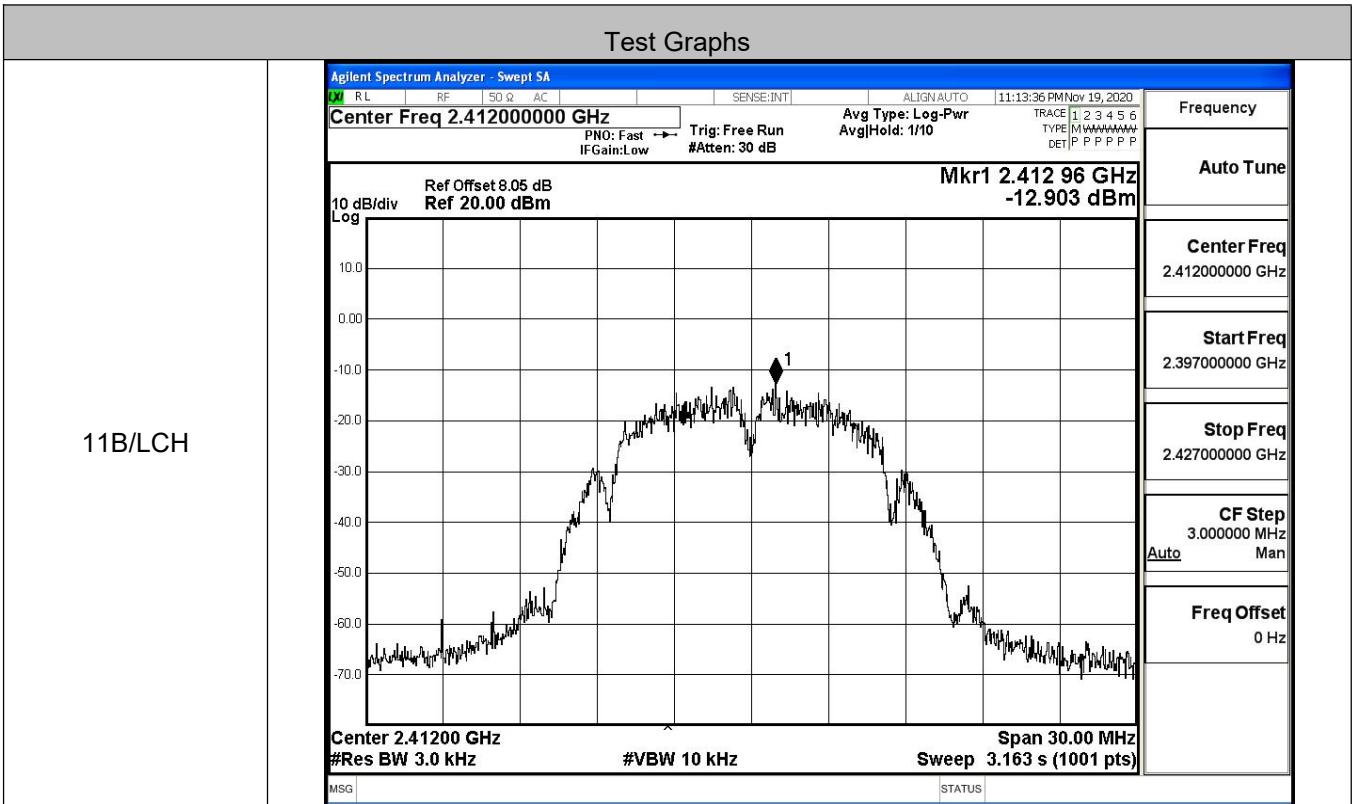
11N20SISO/HCH



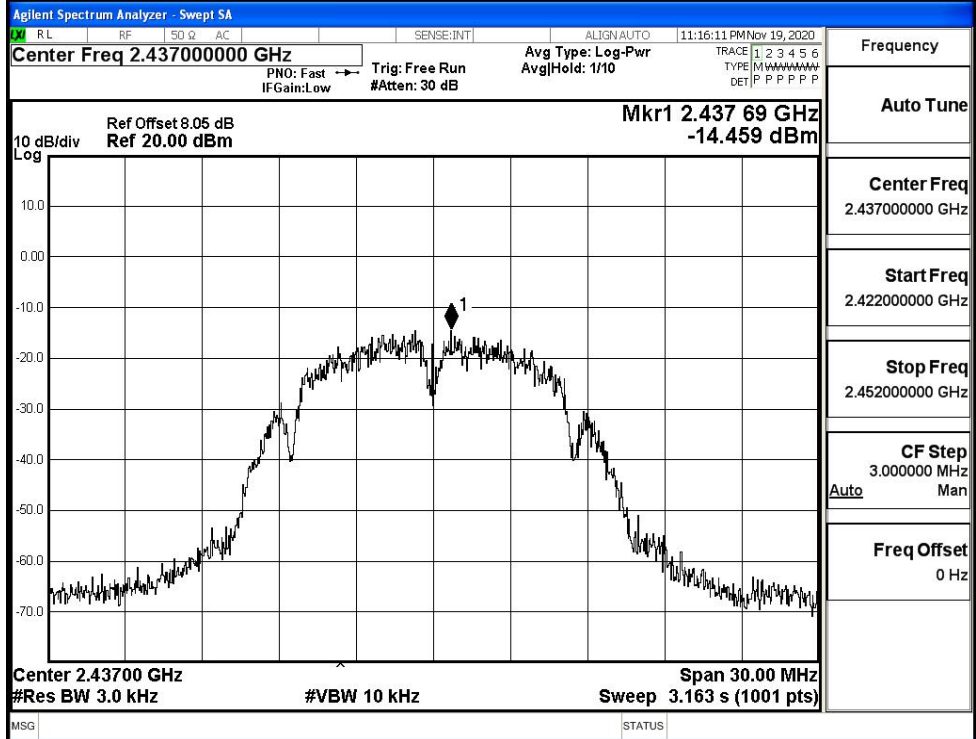
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-12.903	8	PASS
	MCH	-14.459	8	PASS
	HCH	-14.812	8	PASS
11G	LCH	-20.913	8	PASS
	MCH	-20.494	8	PASS
	HCH	-20.590	8	PASS
11N20SISO	LCH	-19.590	8	PASS
	MCH	-20.352	8	PASS
	HCH	-22.970	8	PASS

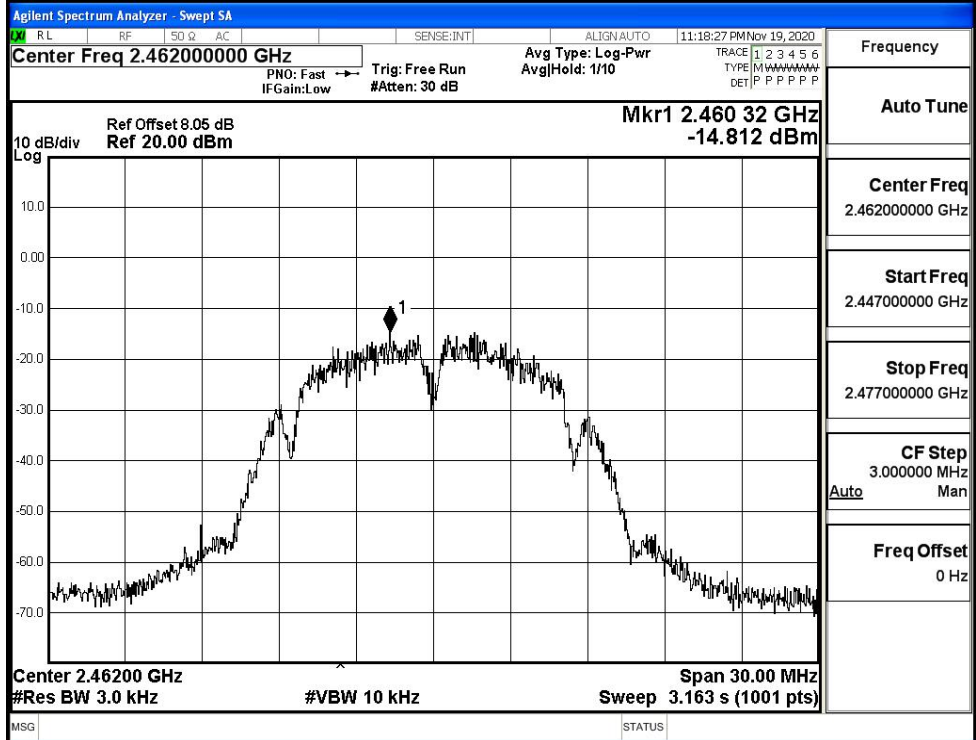
Test Graphs



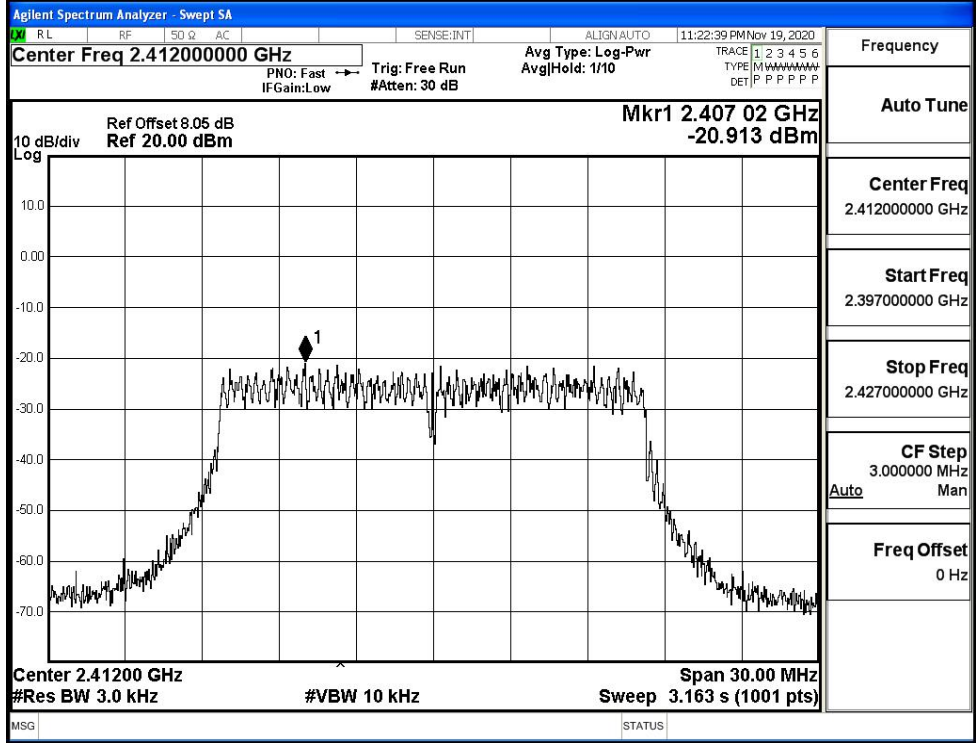
11B/MCH



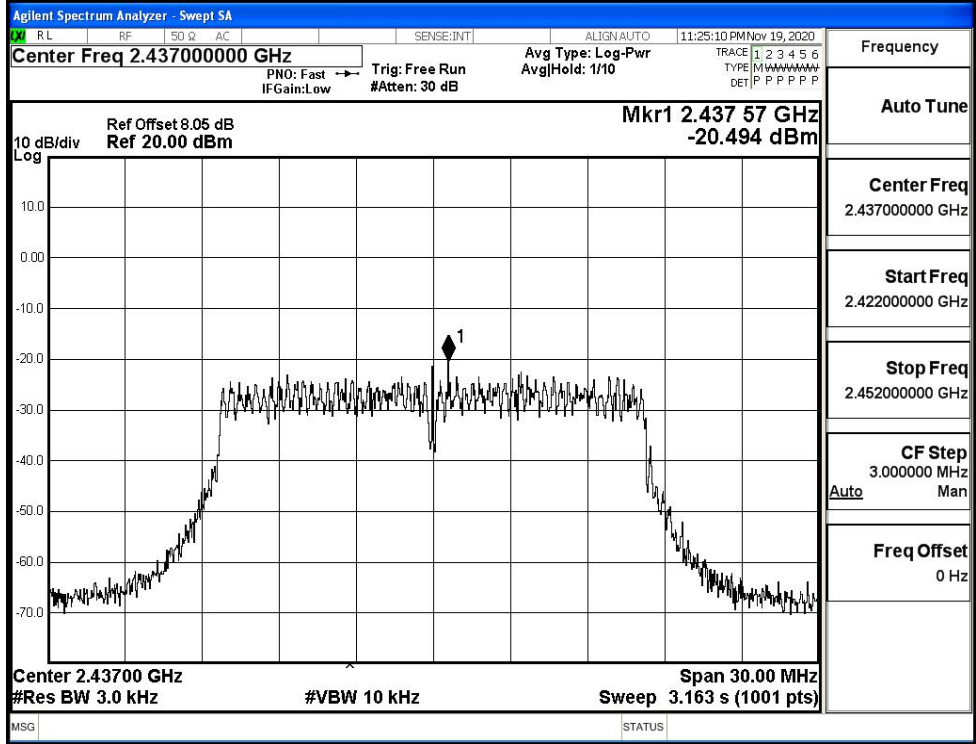
11B/HCH



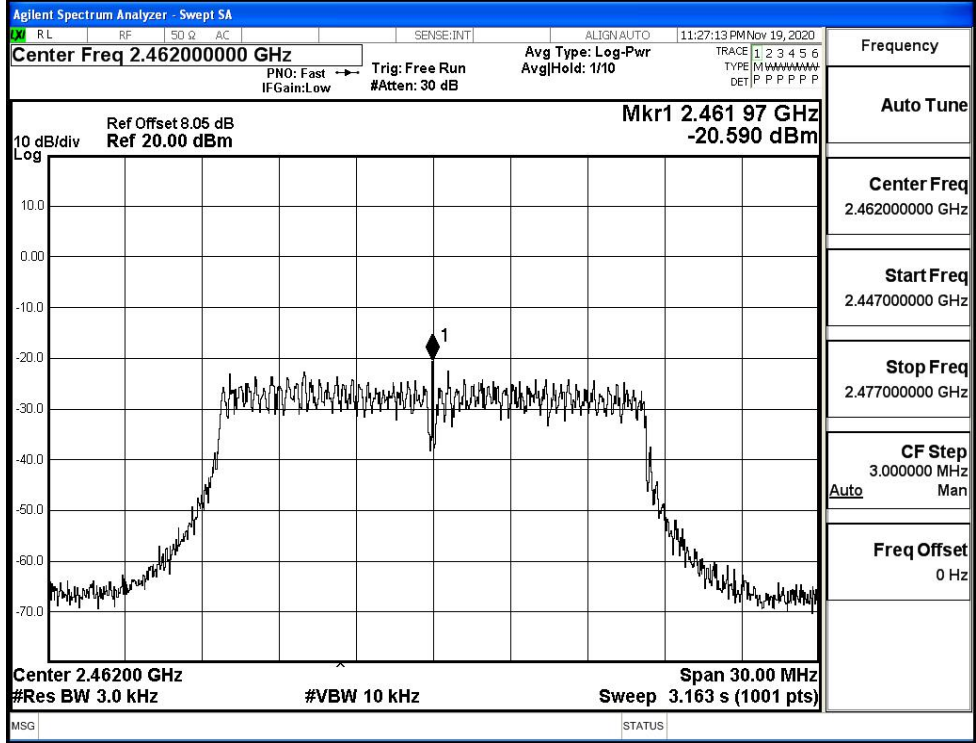
11G/LCH



11G/MCH

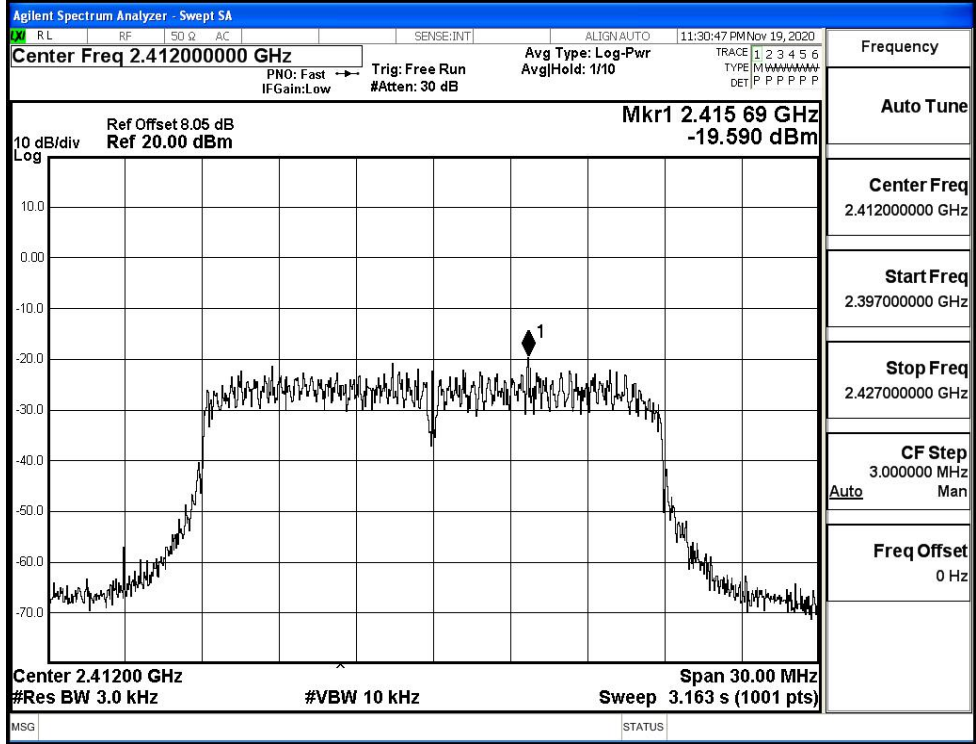


11G/HCH



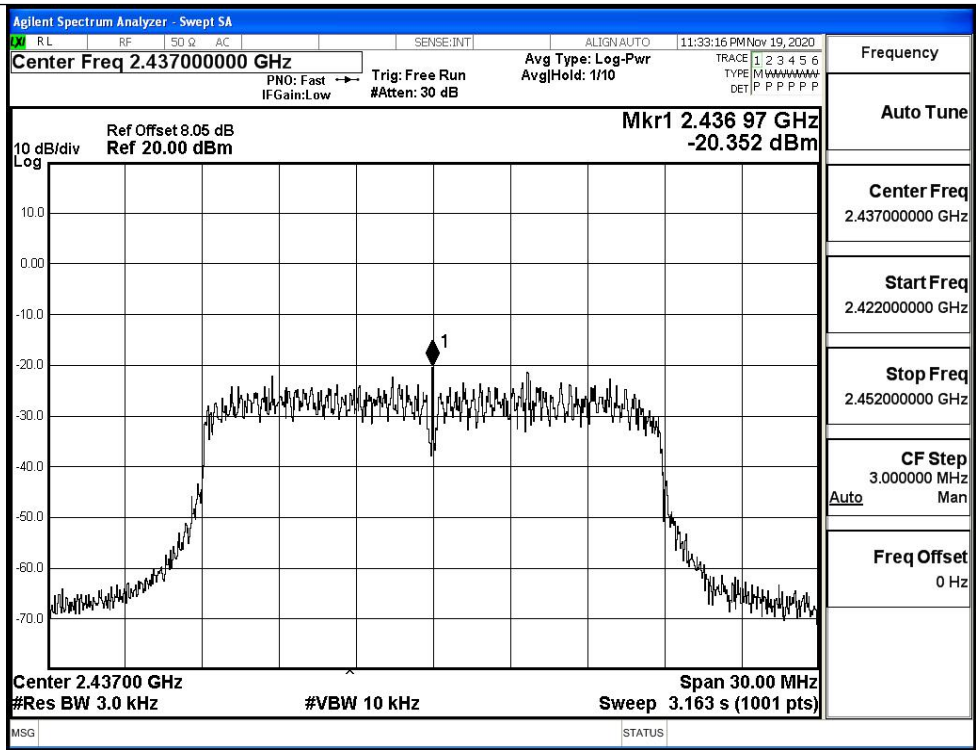
Frequency
Auto Tune
Center Freq 2.46200000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11N20SISO/LCH

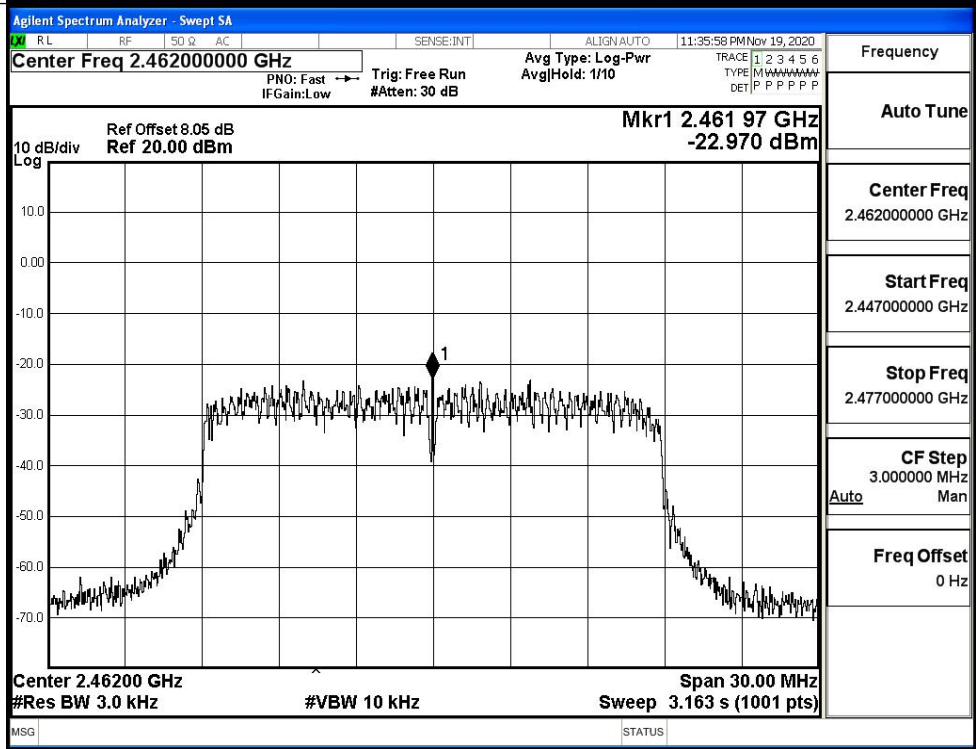


Frequency
Auto Tune
Center Freq 2.412000000 GHz
Start Freq 2.397000000 GHz
Stop Freq 2.427000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11N20SISO/MCH



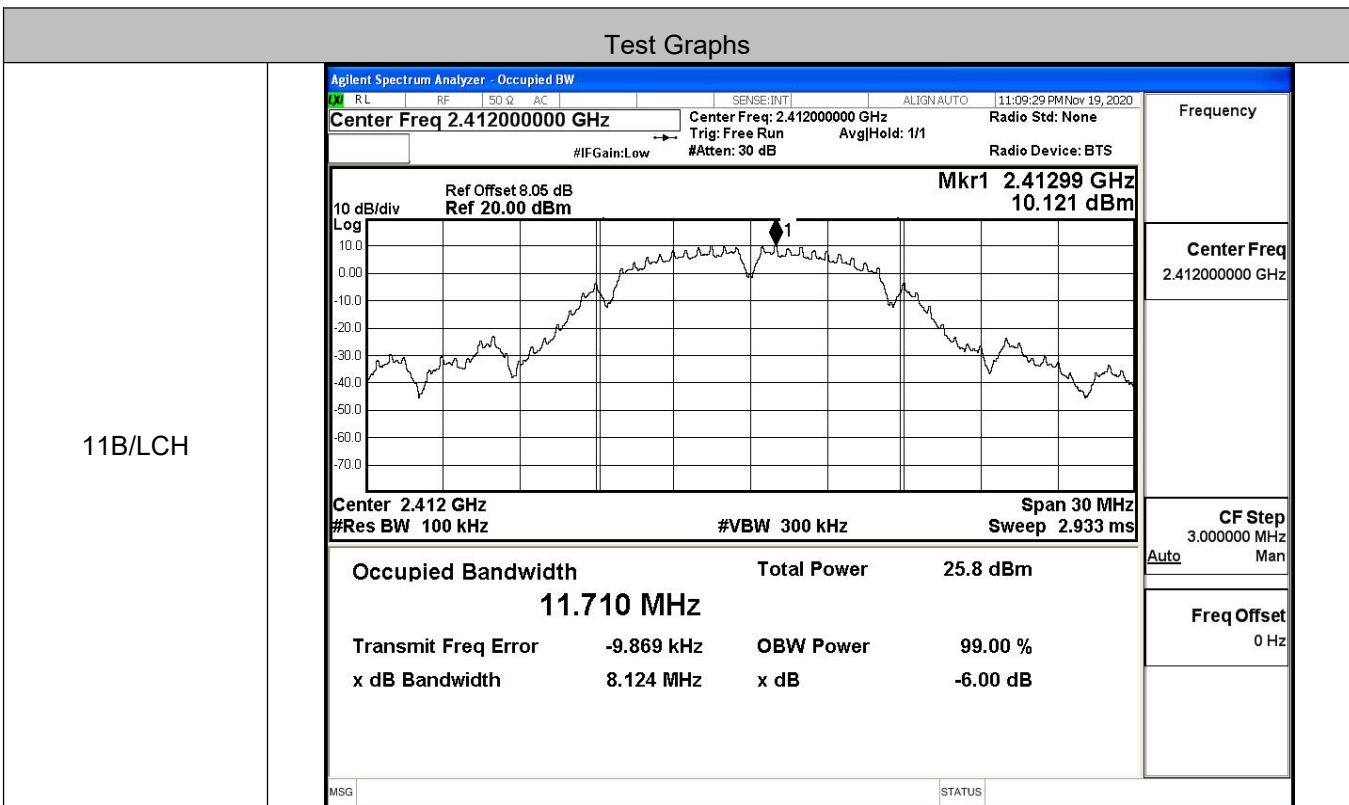
11N20SISO/HCH



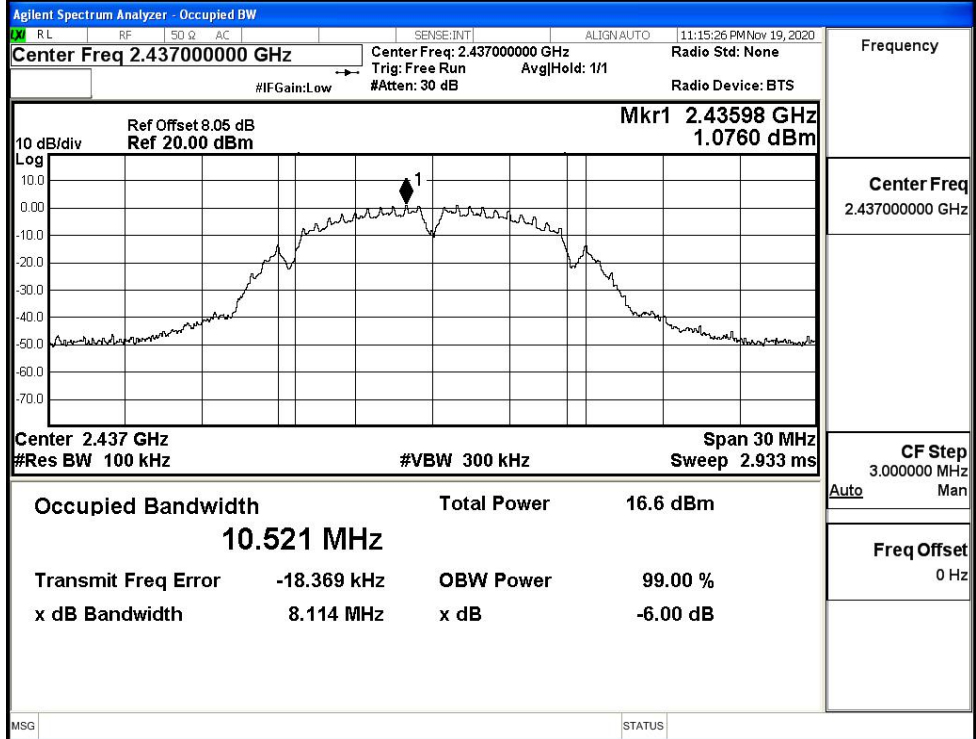
A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.124	≥0.5	PASS
	MCH	8.114	≥0.5	PASS
	HCH	8.124	≥0.5	PASS
11G	LCH	16.06	≥0.5	PASS
	MCH	16.28	≥0.5	PASS
	HCH	16.07	≥0.5	PASS
11N20SISO	LCH	16.55	≥0.5	PASS
	MCH	16.54	≥0.5	PASS
	HCH	16.56	≥0.5	PASS

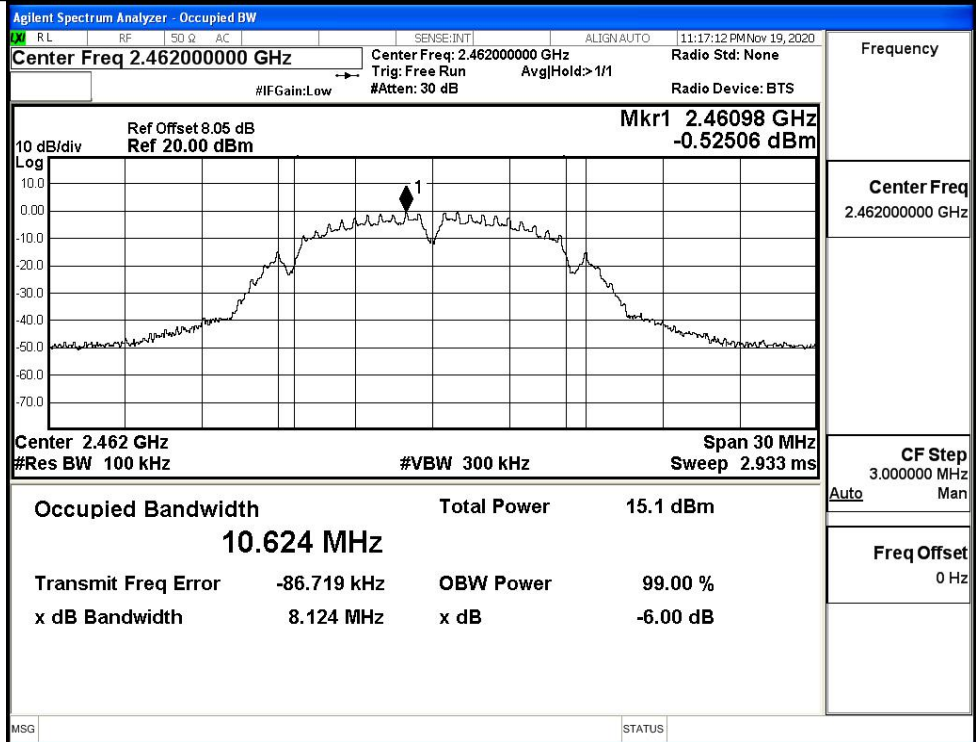
Test Graphs



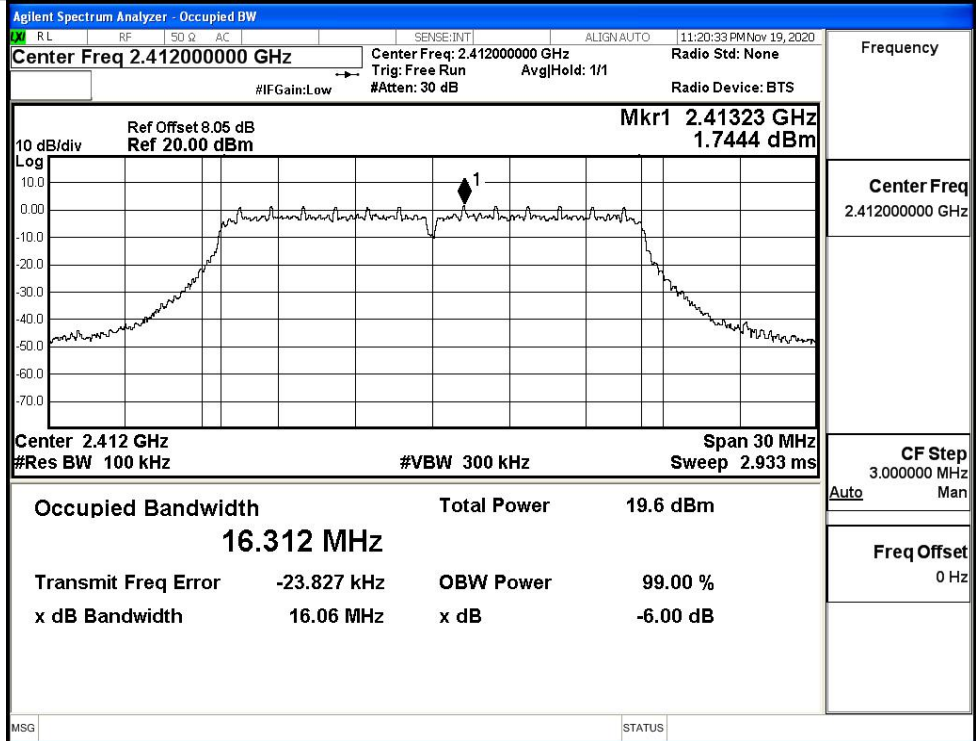
11B/MCH



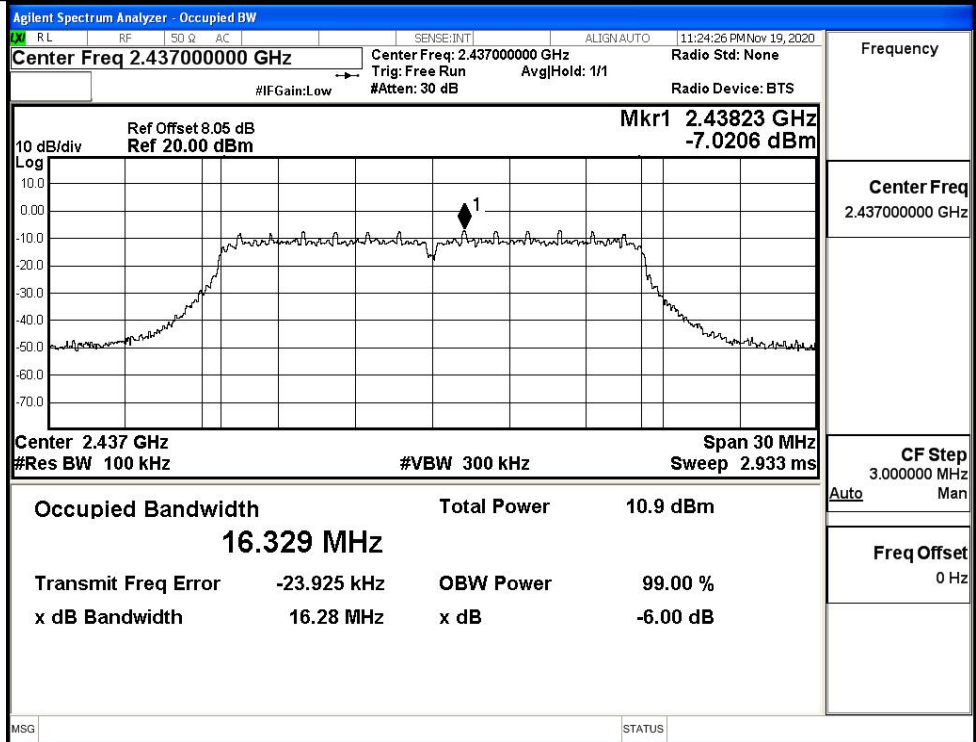
11B/HCH



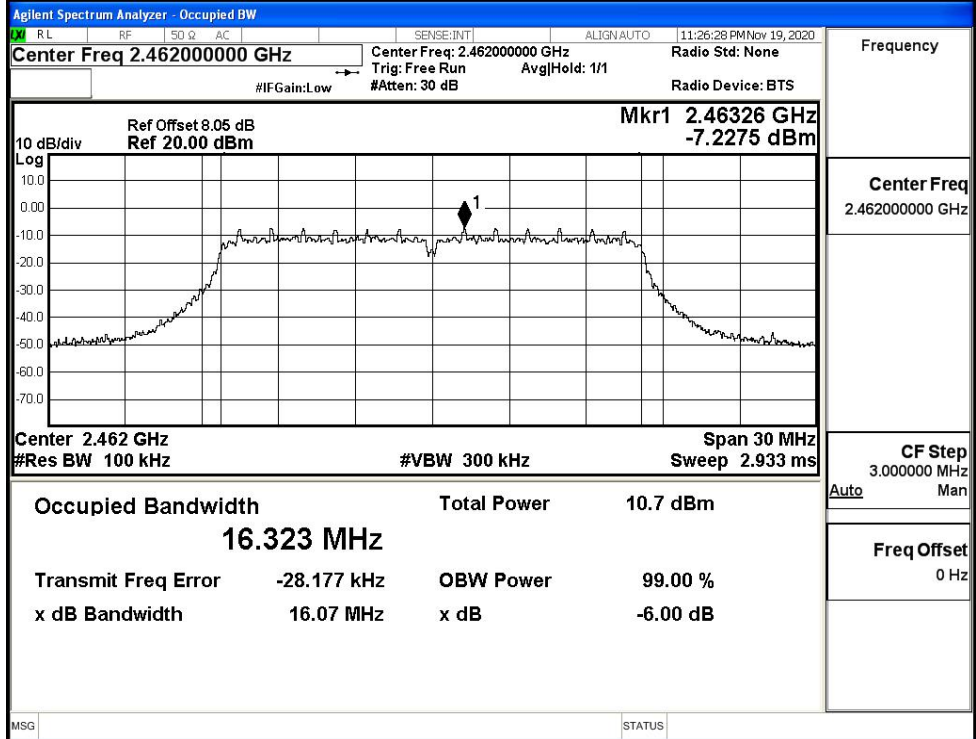
11G/LCH



11G/MCH

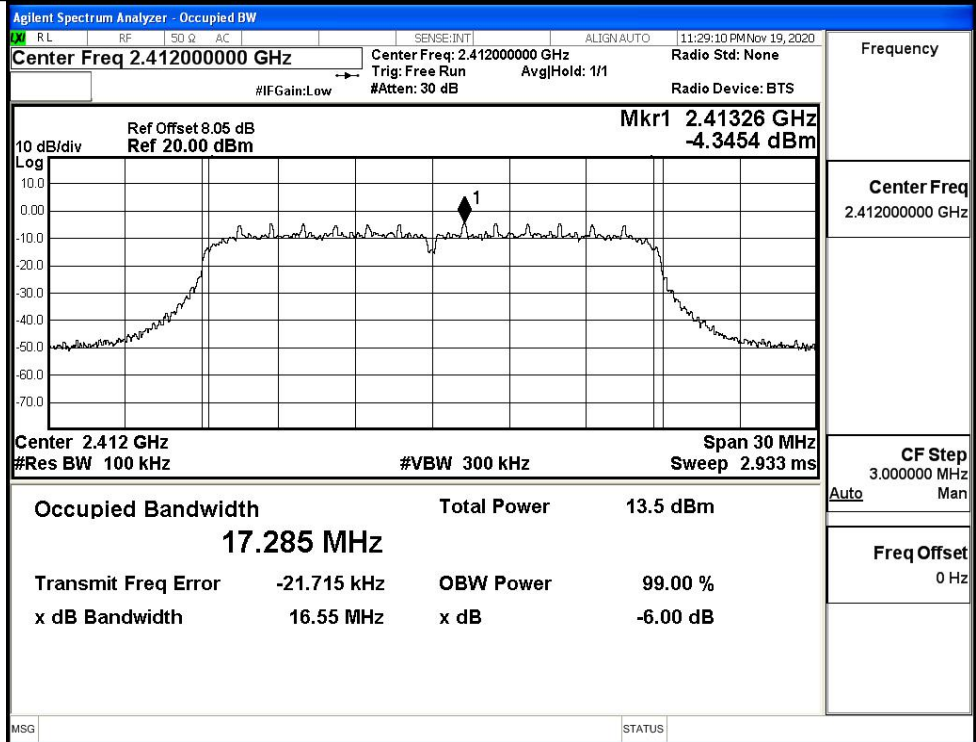


11G/HCH



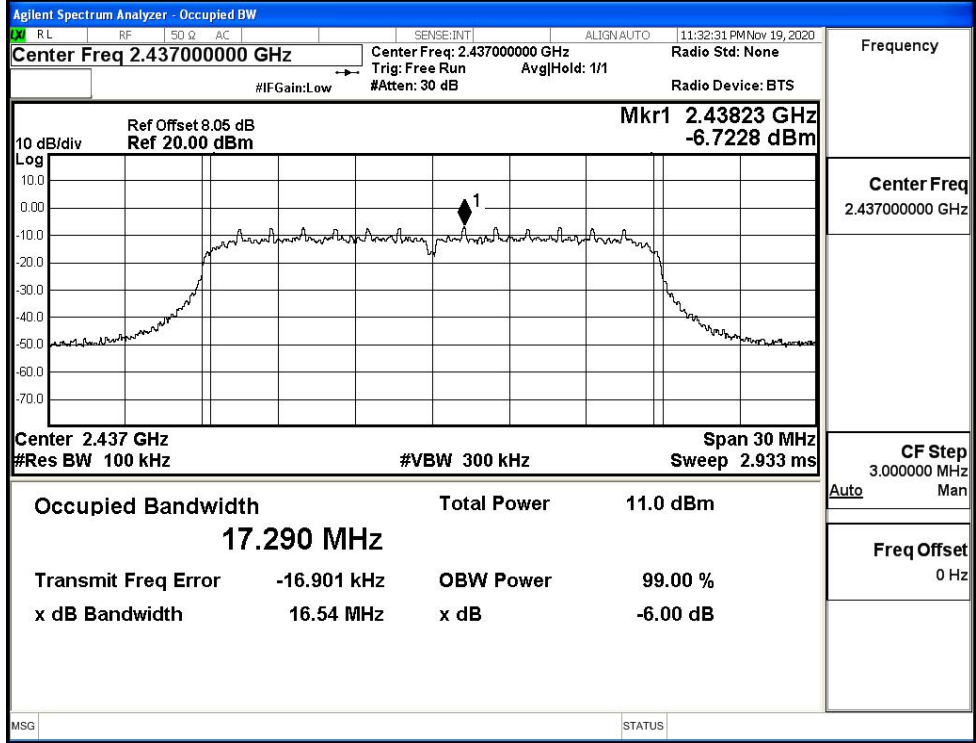
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

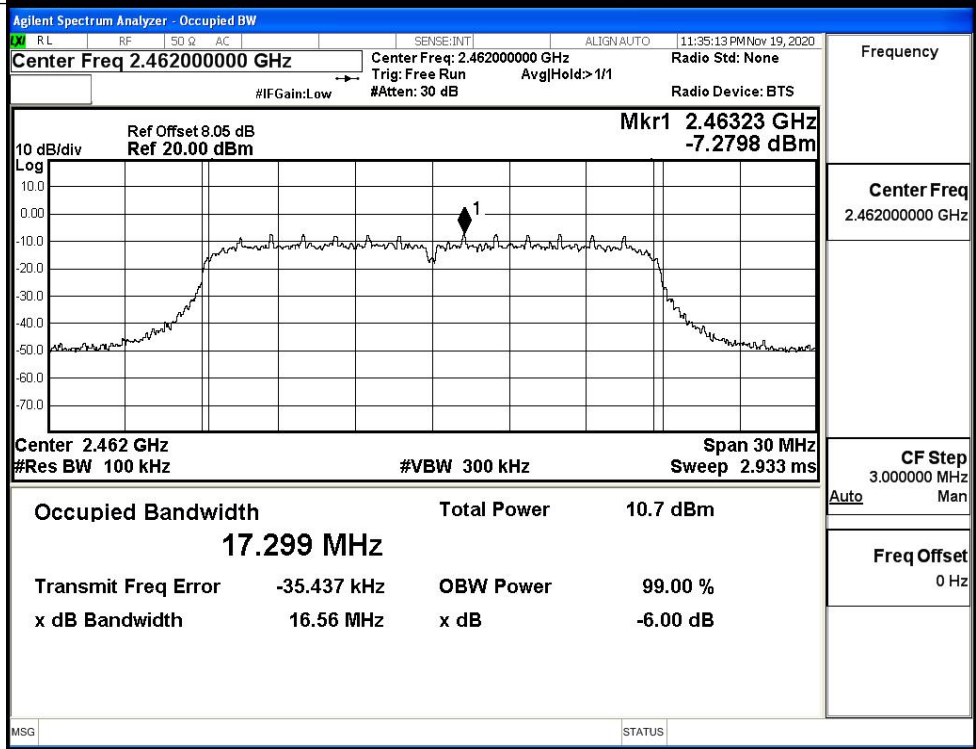


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/MCH



11N20SISO/HCH

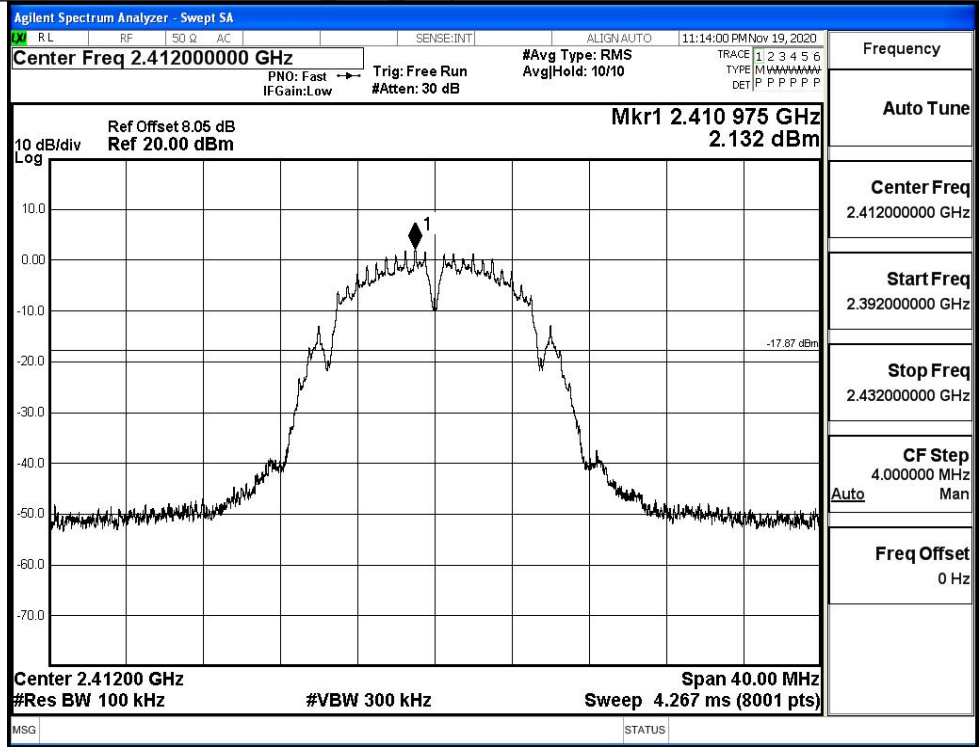


A.5 RF Conducted Spurious Emissions

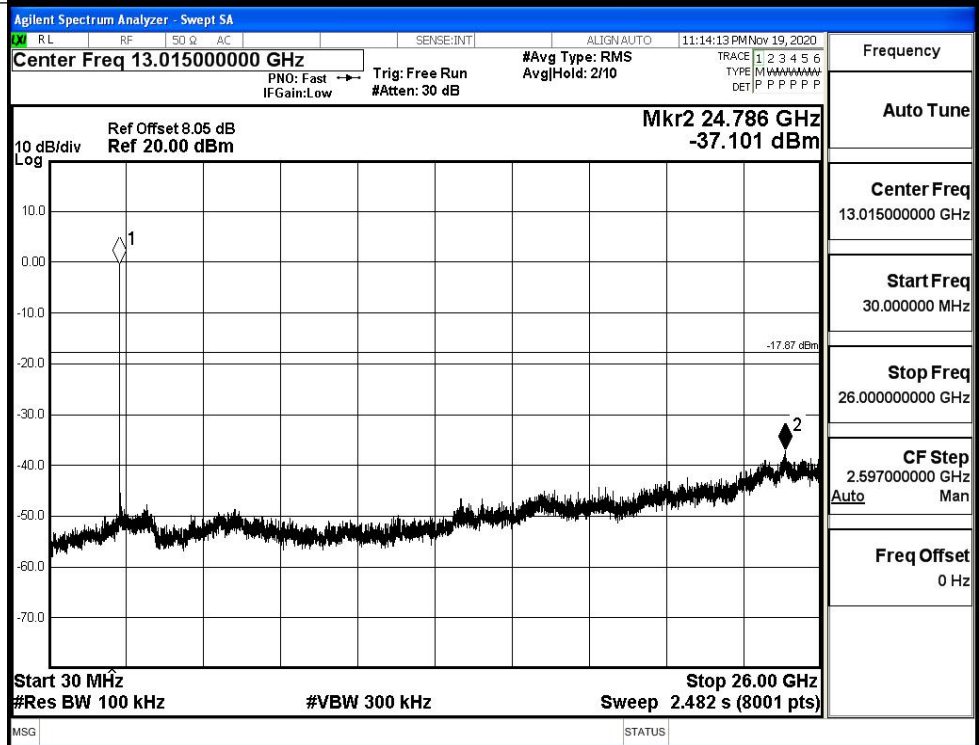
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.132	-37.101	-17.868	PASS
	MCH	0.727	-38.486	-19.273	PASS
	HCH	0.693	-37.048	-19.307	PASS
11G	LCH	-5.8	-37.845	-25.800	PASS
	MCH	-7.005	-36.996	-27.005	PASS
	HCH	-7.625	-37.173	-27.625	PASS
11N20 SISO	LCH	-5.739	-37.590	-25.739	PASS
	MCH	-7.021	-38.177	-27.021	PASS
	HCH	-7.615	-37.249	-27.615	PASS

11B LCH Graphs

Pref/11B/LCH

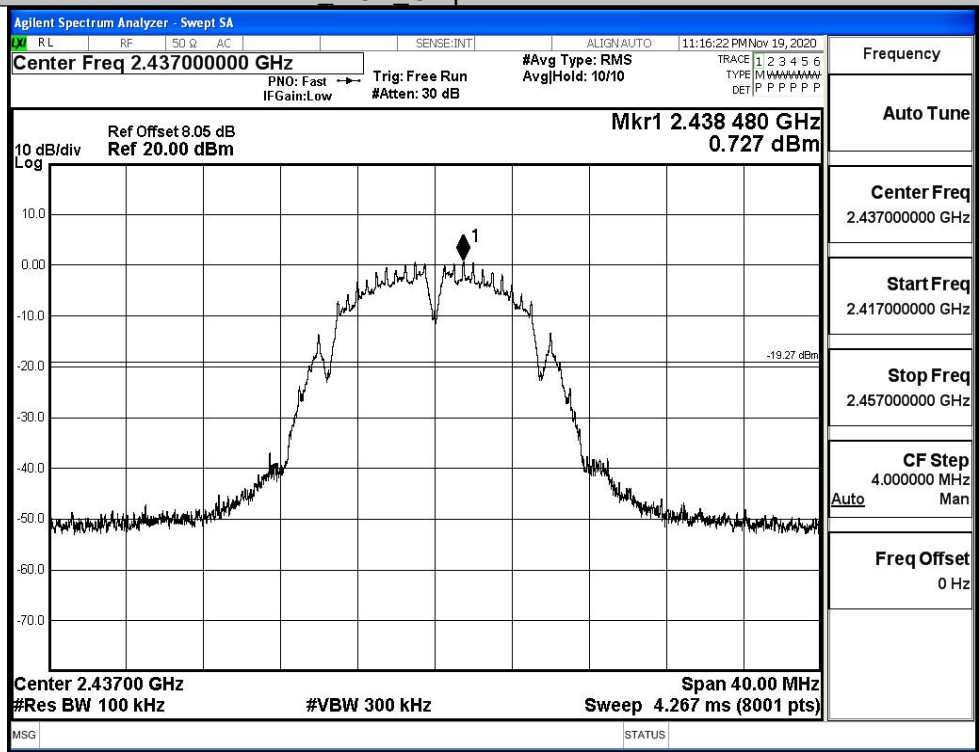


Puw/11B/LCH

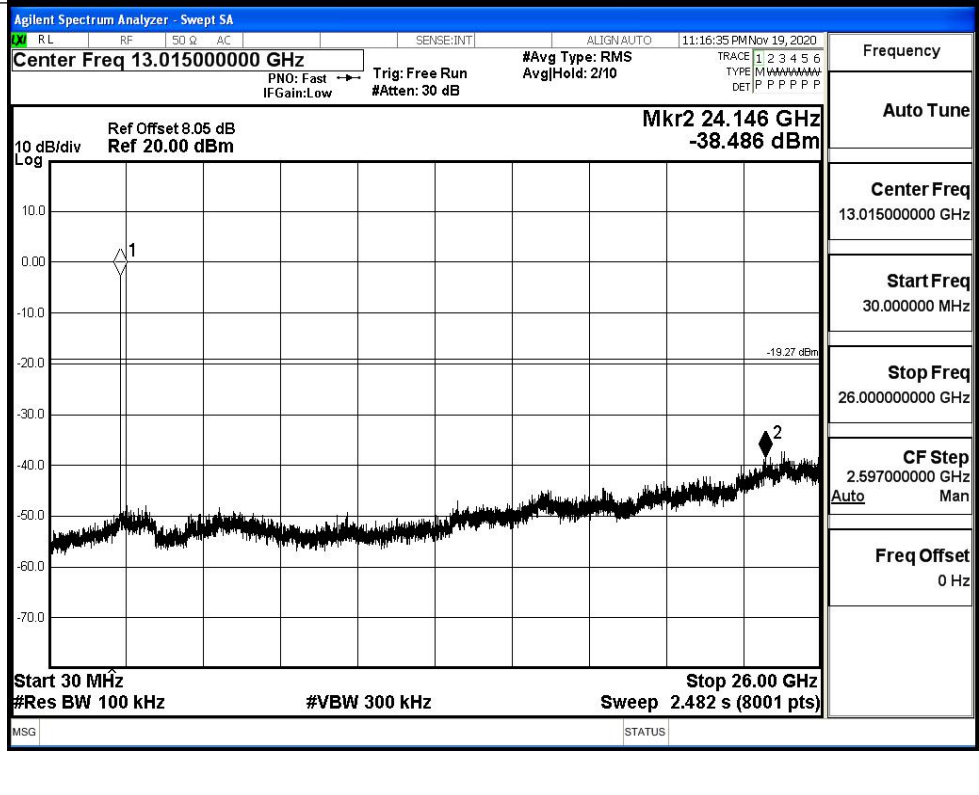


11B MCH Graphs

Pref/11B/MCH

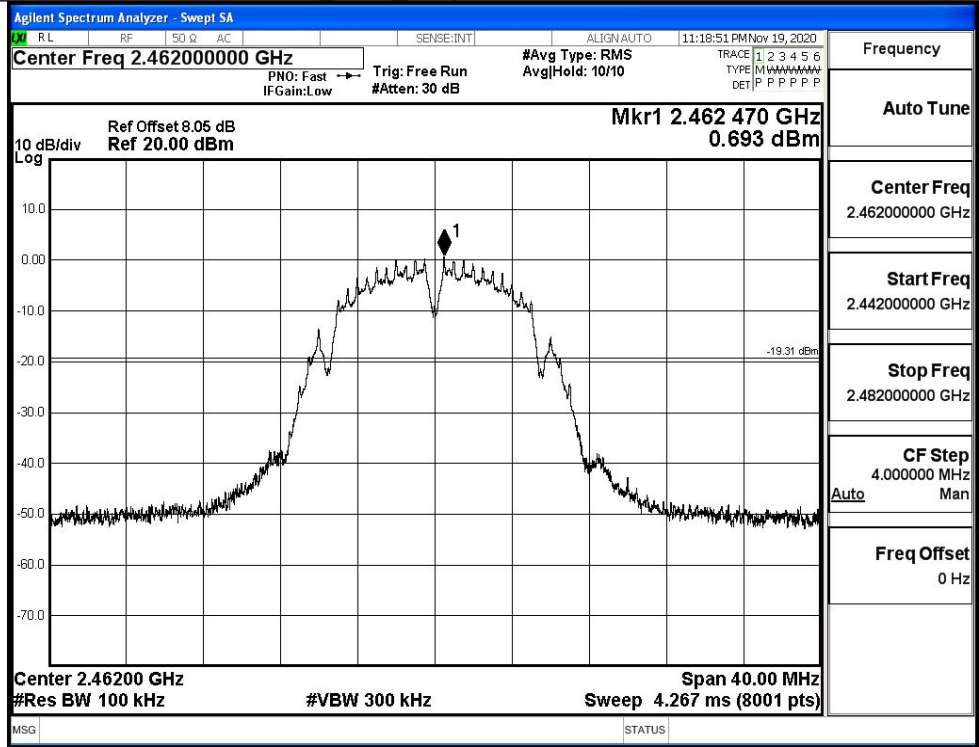


Puw/11B/MCH

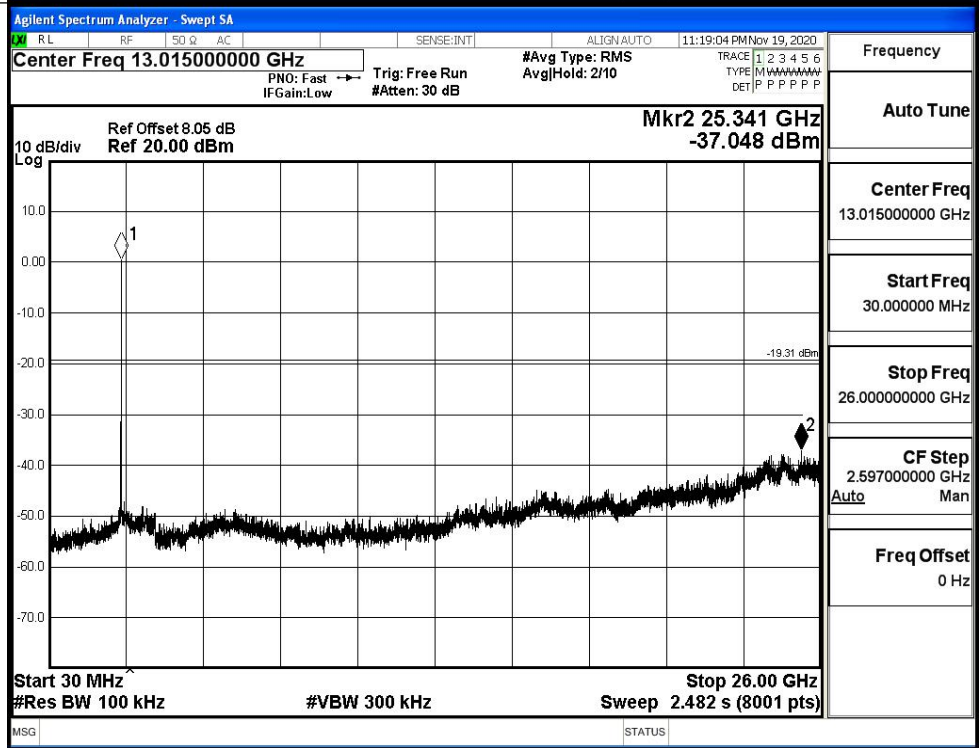


11B HCH Graphs

Pref/11B/HCH

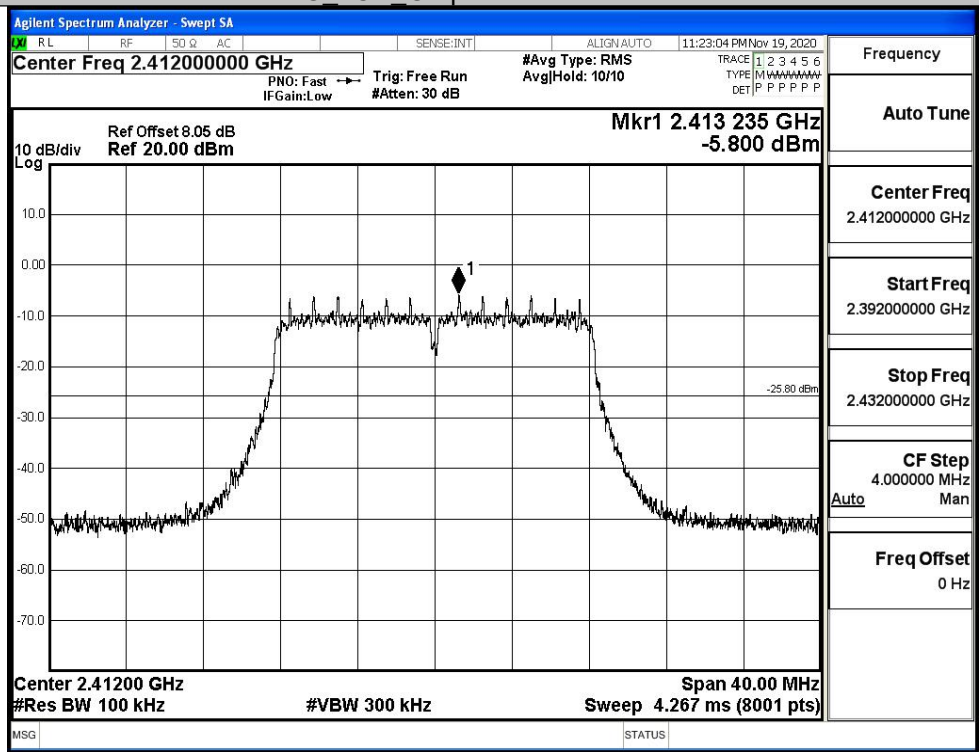


Puw/11B/HCH



11G LCH Graphs

Pref/11G/LCH



Puw/11G/LCH

