

Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: LumiCharge

Trade Mark: N/A

Test Model: LD

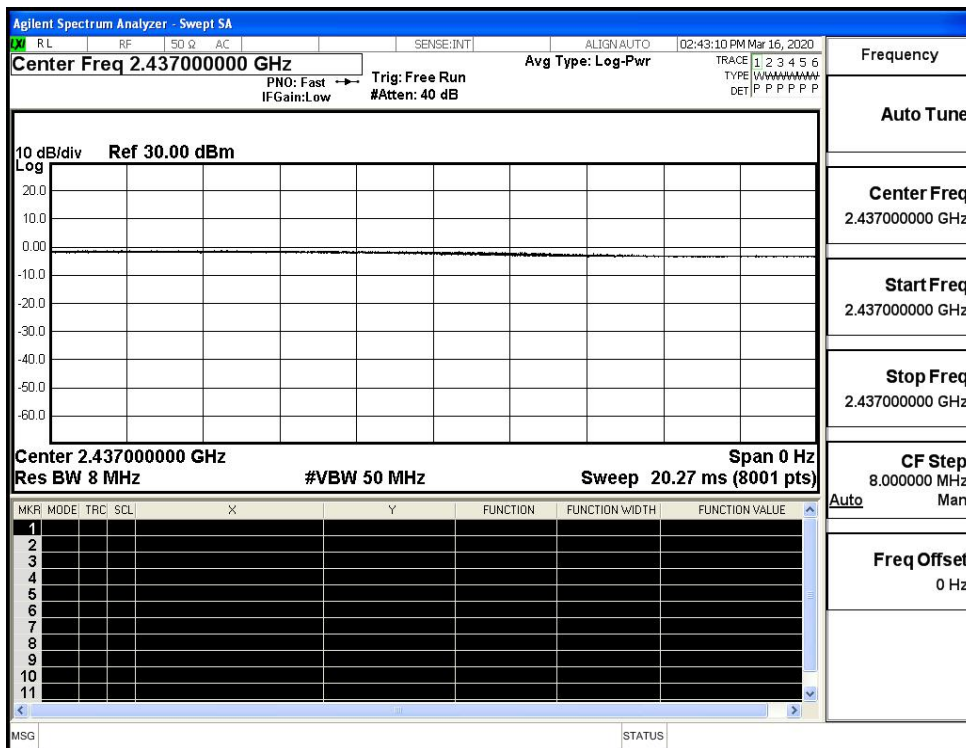
Environmental Conditions

Temperature:	24.8 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	QUXIN
Supervised by:	Tom.Liu

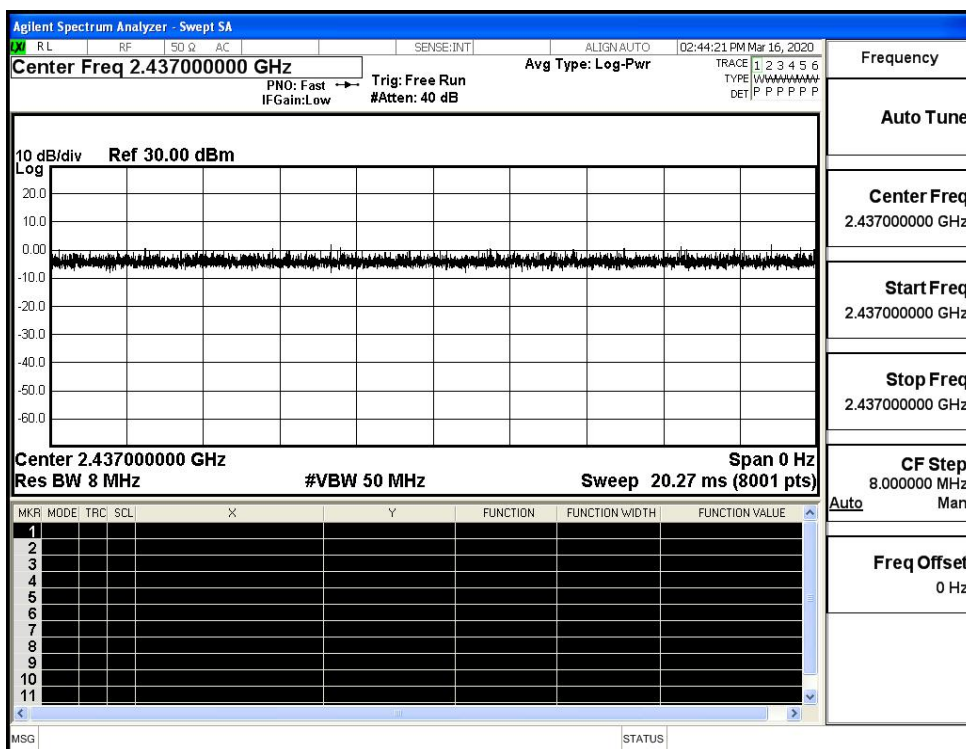
B.1 Duty Cycle

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

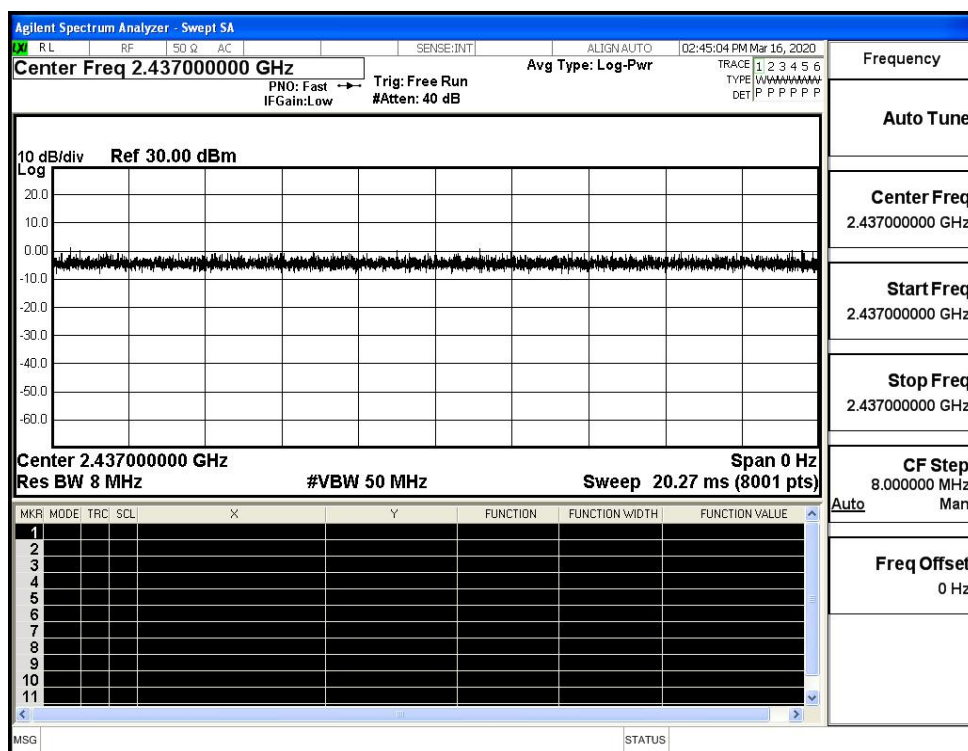
Duty Cycle_11B_2437_Ant1



Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



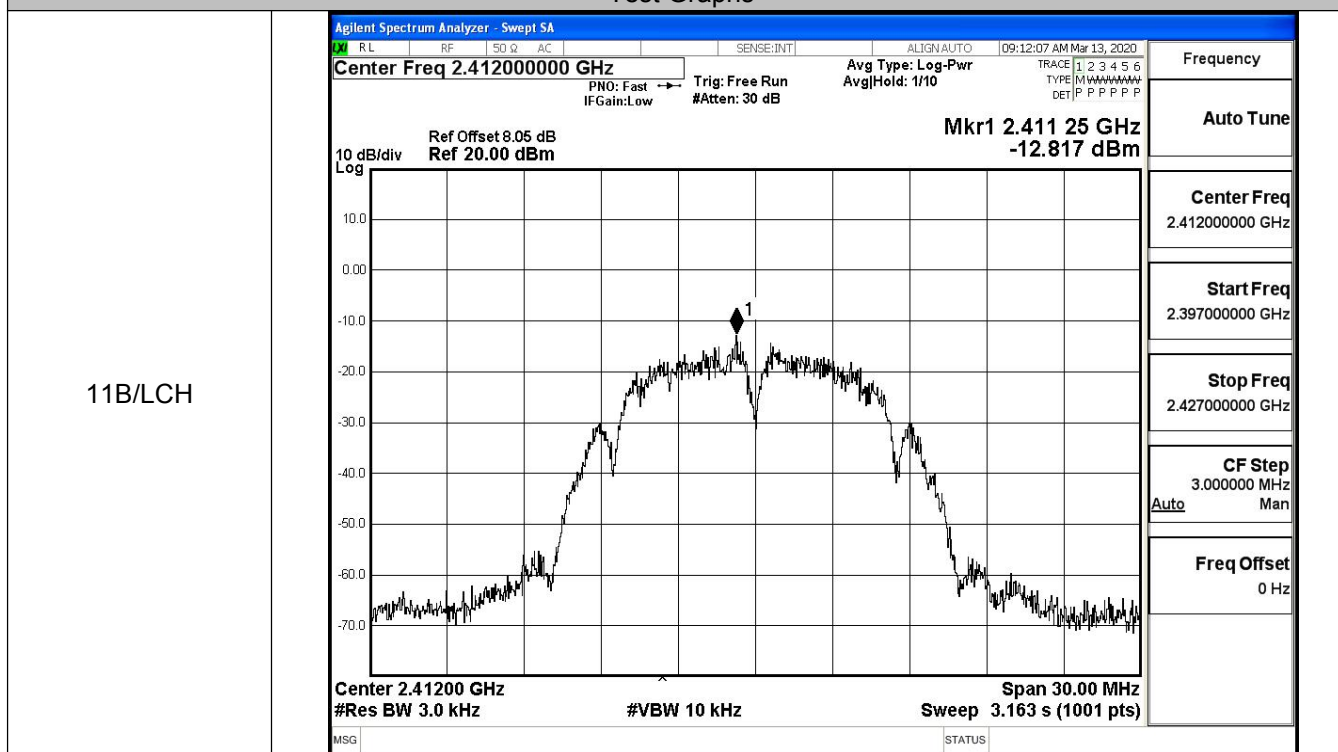
B.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	11.85	30	PASS
	MCH	12.44	30	PASS
	HCH	12.92	30	PASS
11G	LCH	12.03	30	PASS
	MCH	11.82	30	PASS
	HCH	11.36	30	PASS
11N20SISO	LCH	10.23	30	PASS
	MCH	10.66	30	PASS
	HCH	11.22	30	PASS

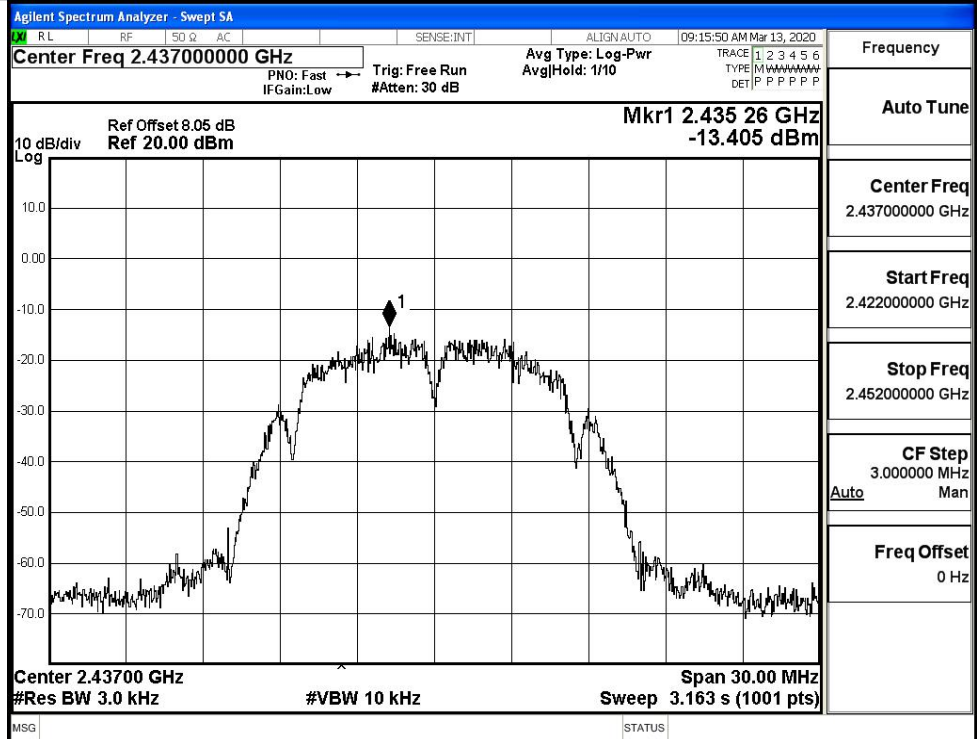
B.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-12.817	8	PASS
	MCH	-13.405	8	PASS
	HCH	-13.666	8	PASS
11G	LCH	-20.524	8	PASS
	MCH	-22.279	8	PASS
	HCH	-21.687	8	PASS
11N20SISO	LCH	-23.617	8	PASS
	MCH	-23.961	8	PASS
	HCH	-22.704	8	PASS

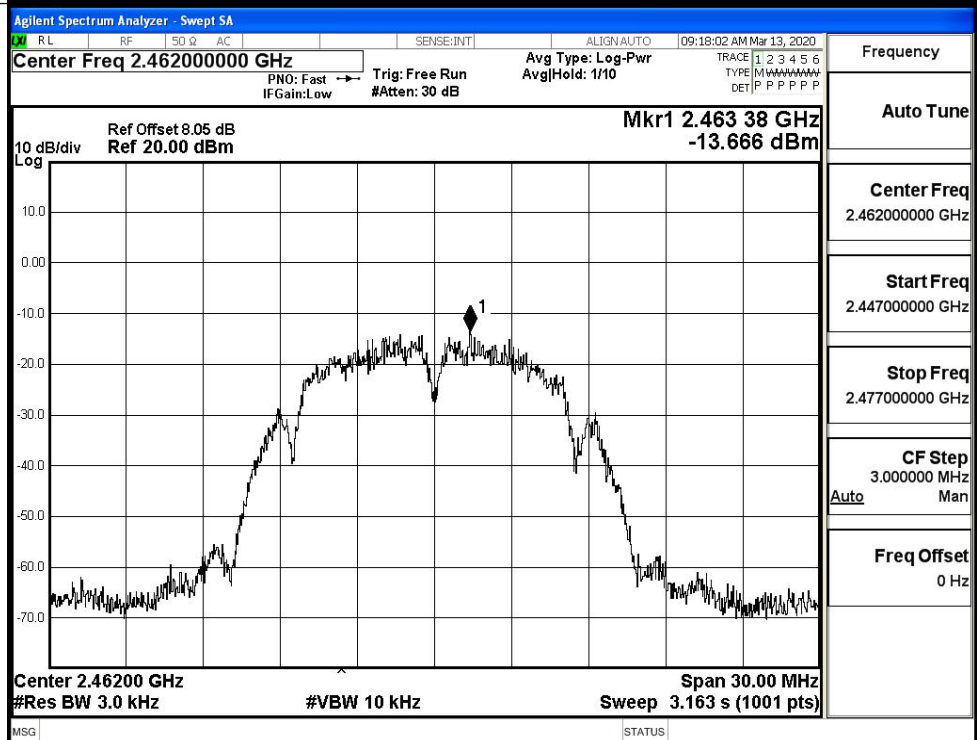
Test Graphs



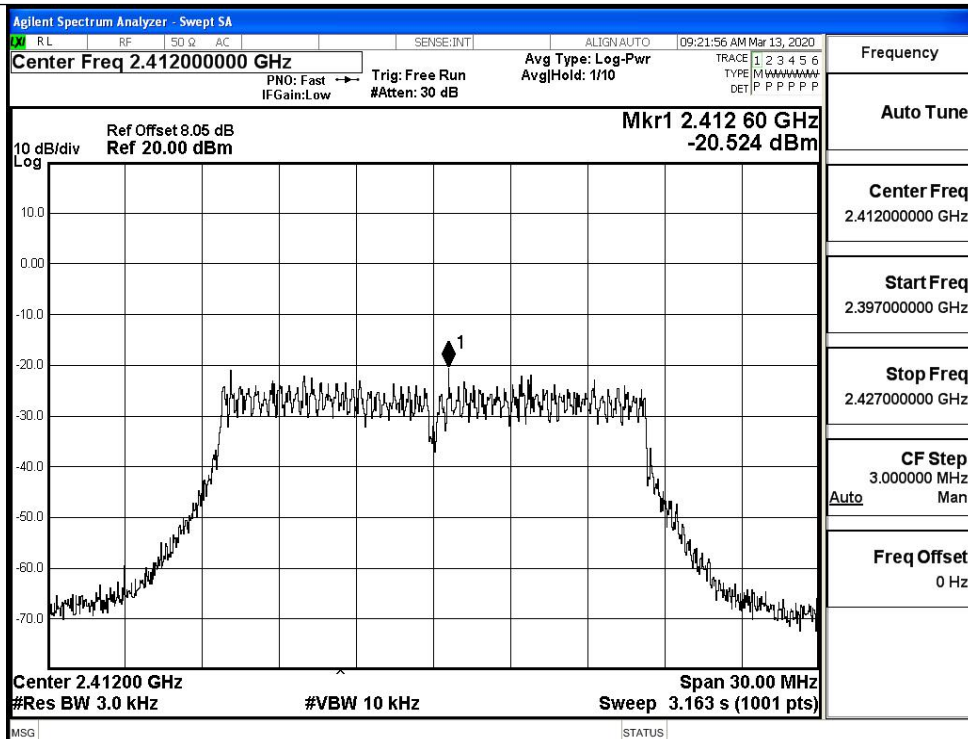
11B/MCH



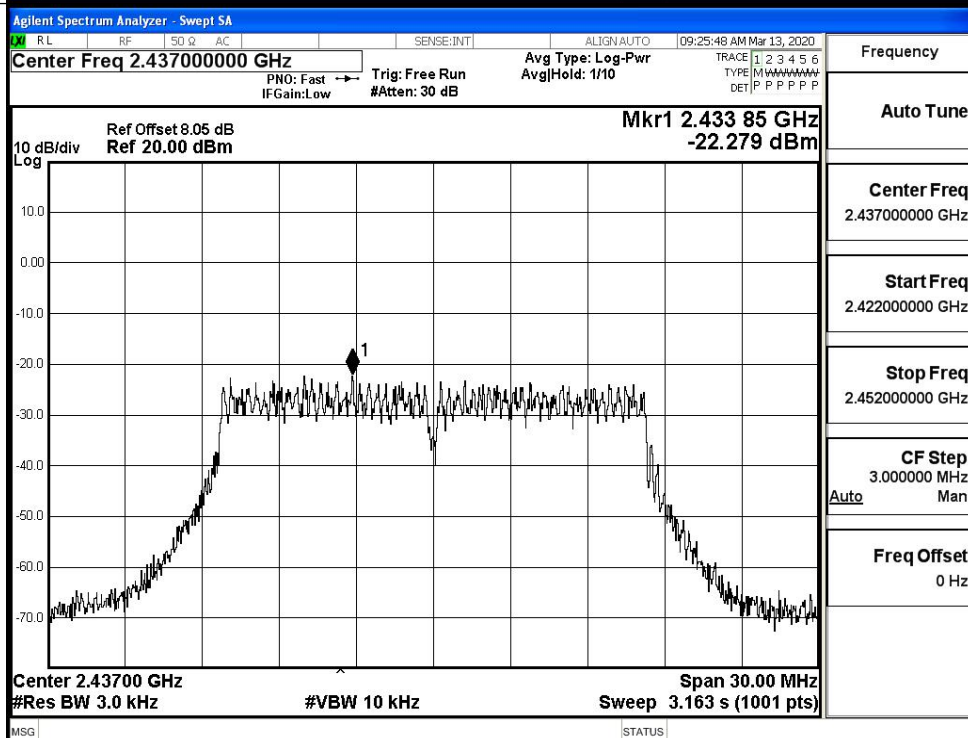
11B/HCH



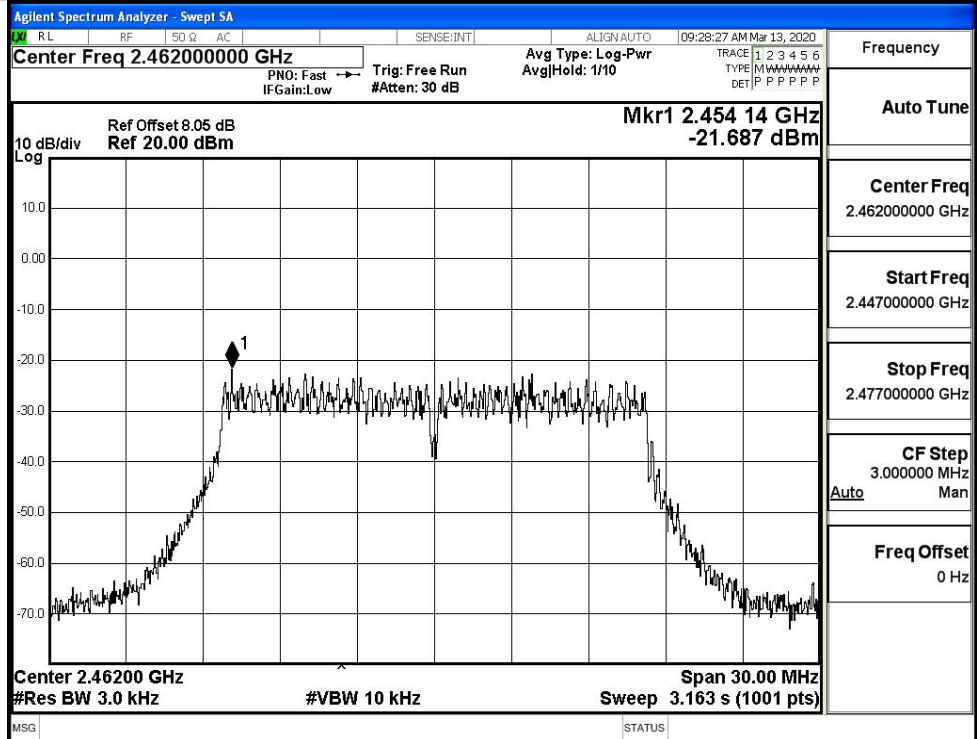
11G/LCH



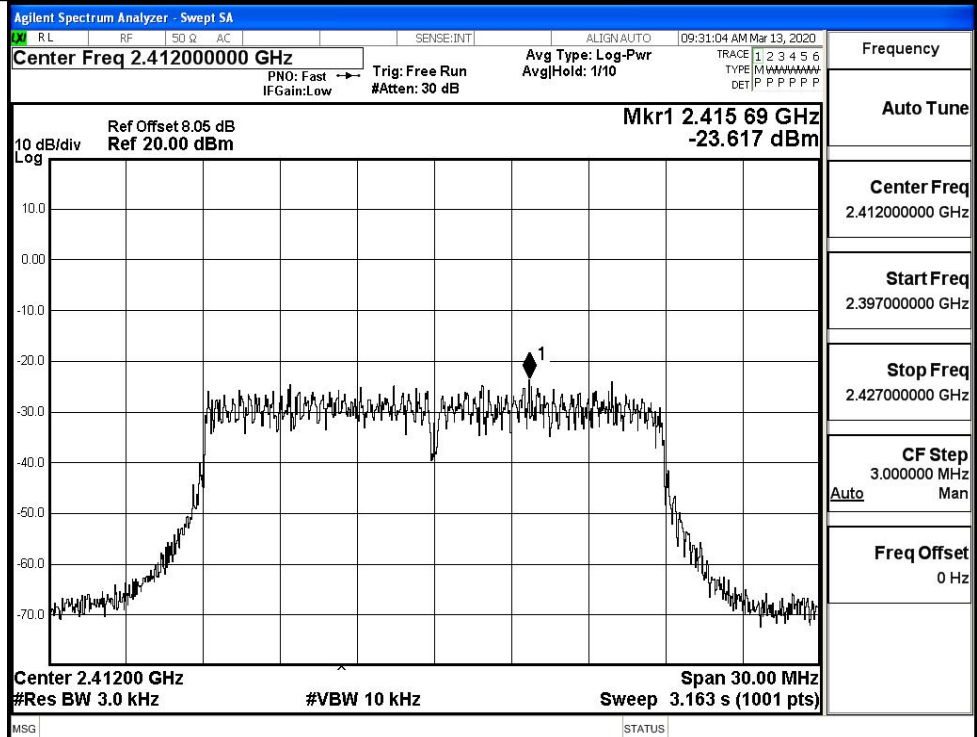
11G/MCH



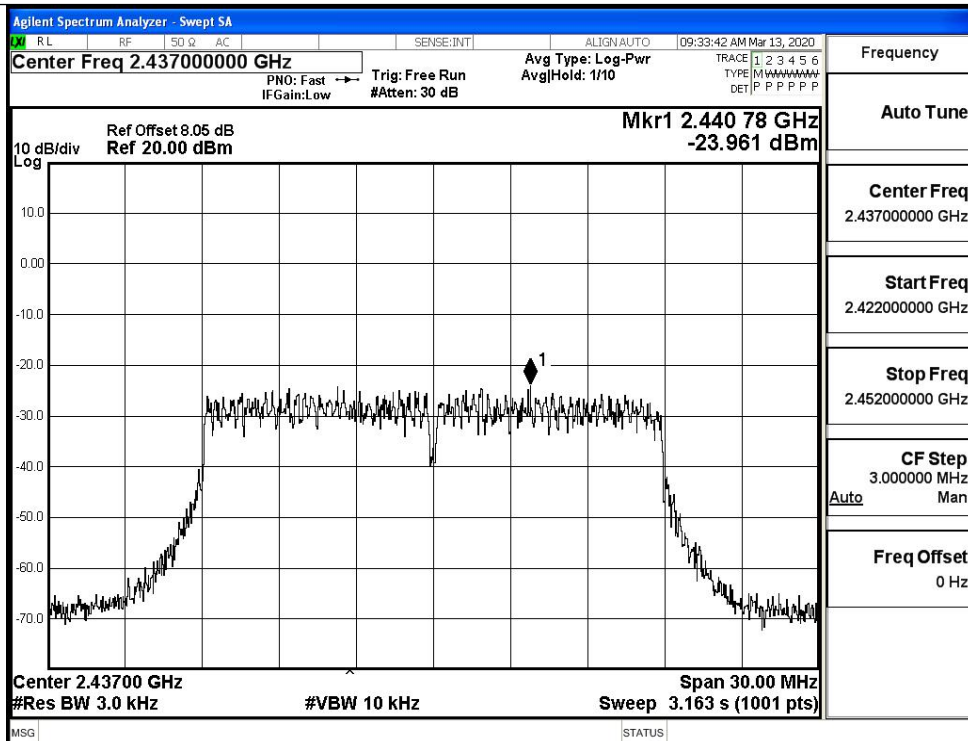
11G/HCH



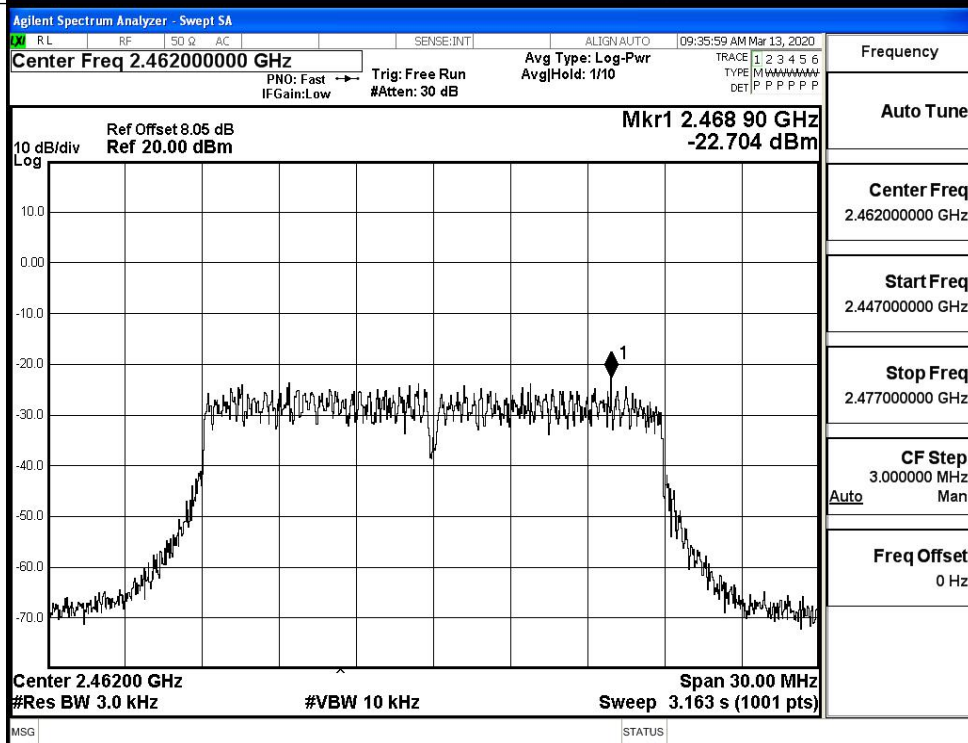
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

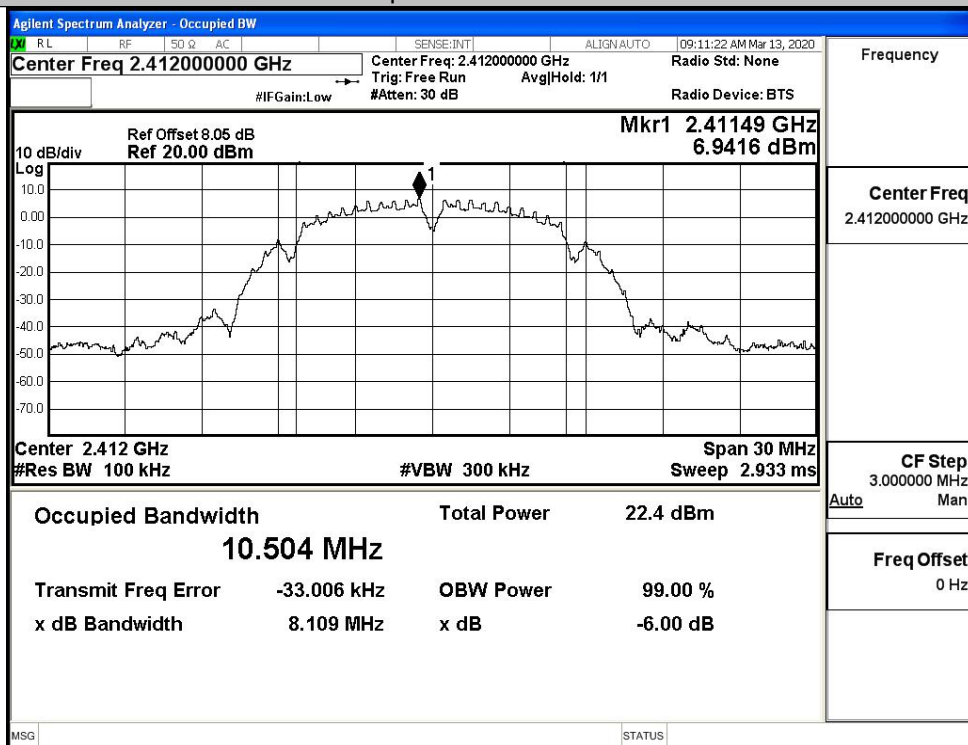


B.4 6dB Bandwidth

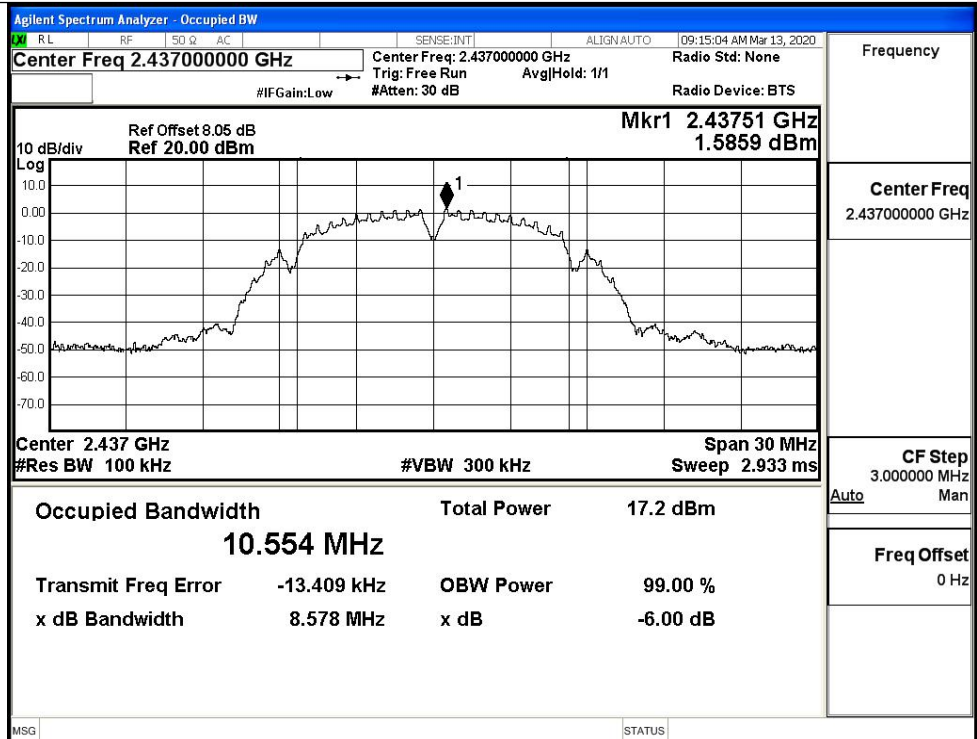
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	8.109	≥ 0.5	PASS
	MCH	8.578	≥ 0.5	PASS
	HCH	8.557	≥ 0.5	PASS
11G	LCH	16.35	≥ 0.5	PASS
	MCH	16.35	≥ 0.5	PASS
	HCH	16.36	≥ 0.5	PASS
11N20SISO	LCH	17.06	≥ 0.5	PASS
	MCH	17.01	≥ 0.5	PASS
	HCH	17.07	≥ 0.5	PASS

Test Graphs

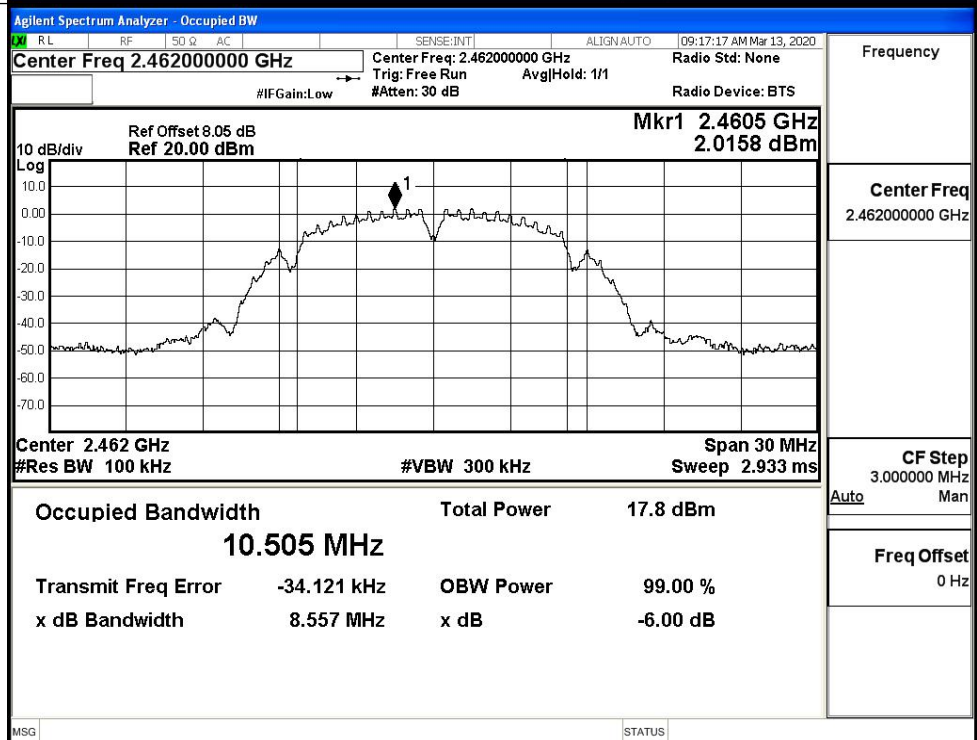
11B/LCH



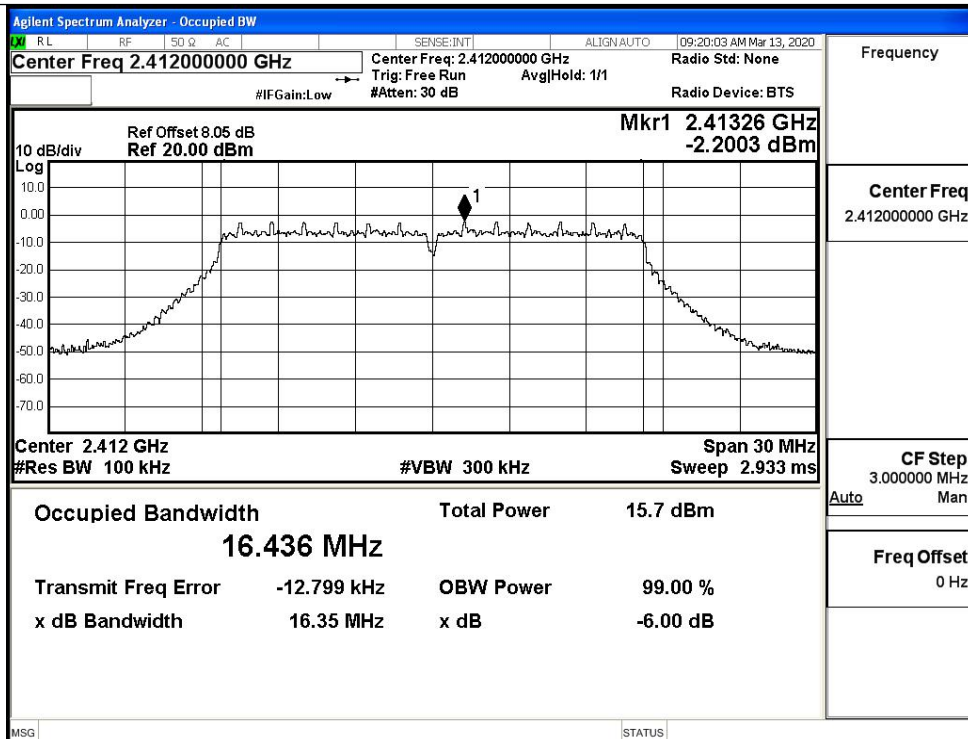
11B/MCH



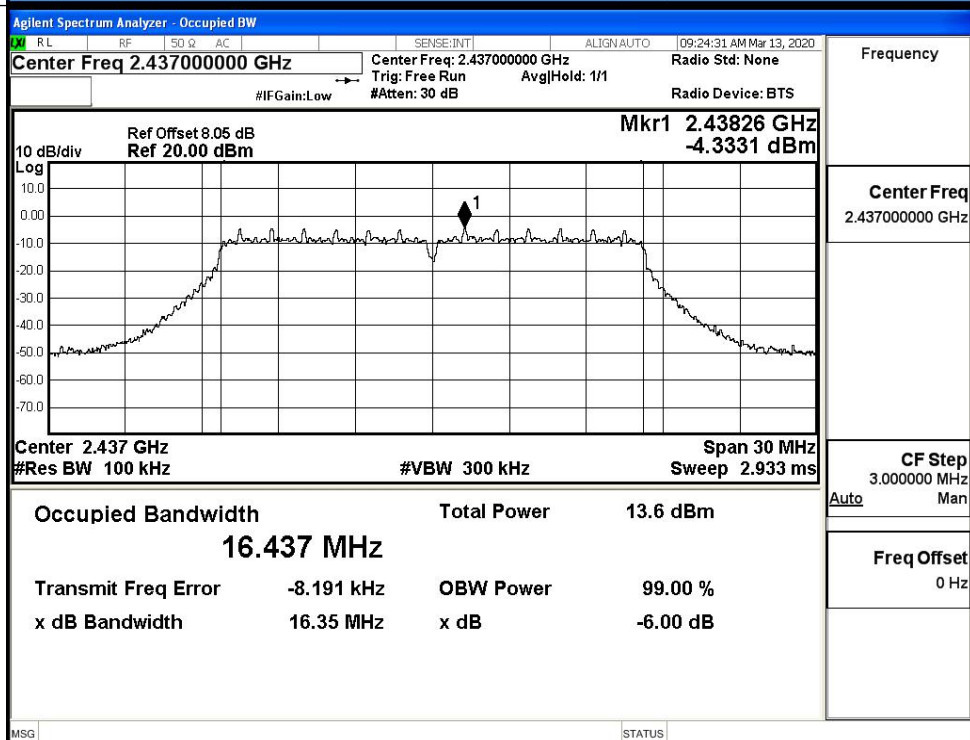
11B/HCH



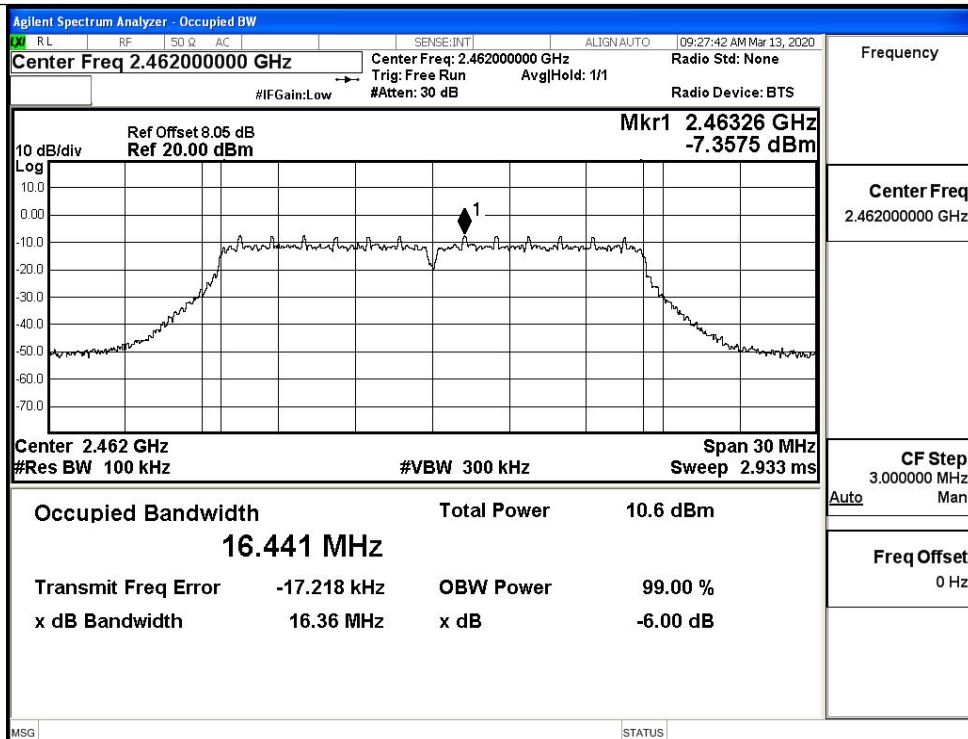
11G/LCH



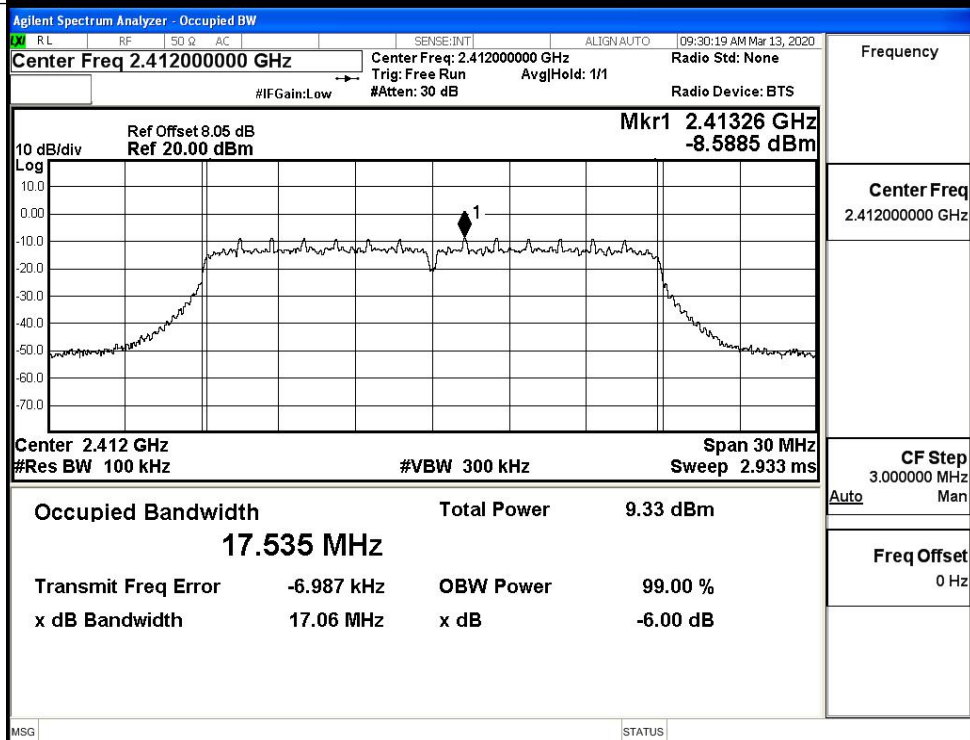
11G/MCH



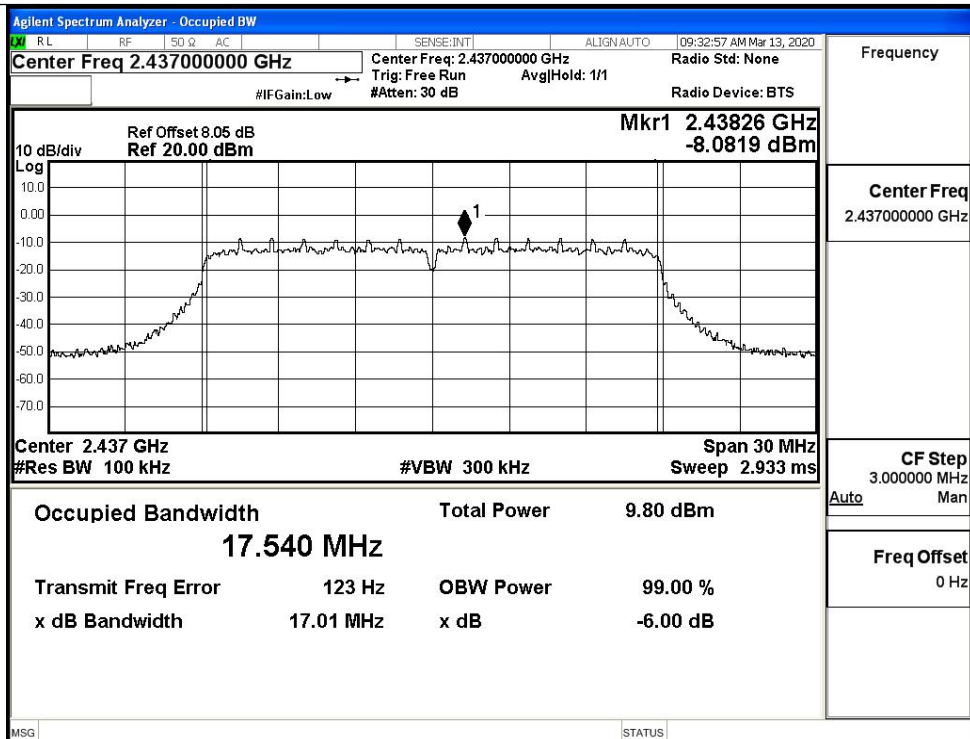
11G/HCH



11N20SISO/LCH



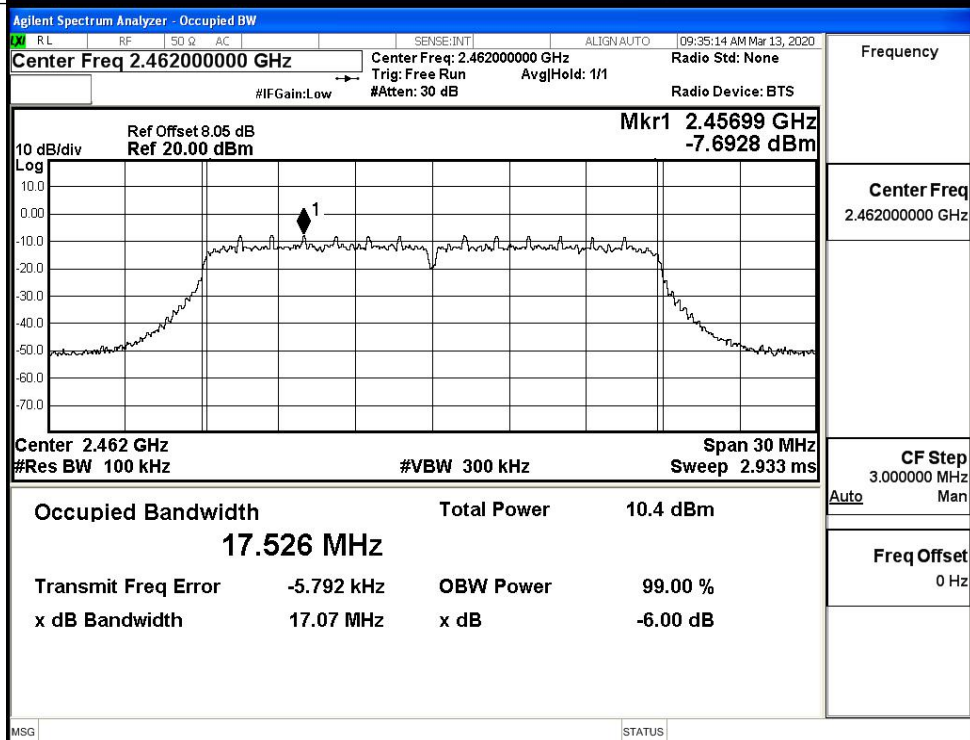
11N20SISO/MCH



Frequency

Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/HCH



Frequency

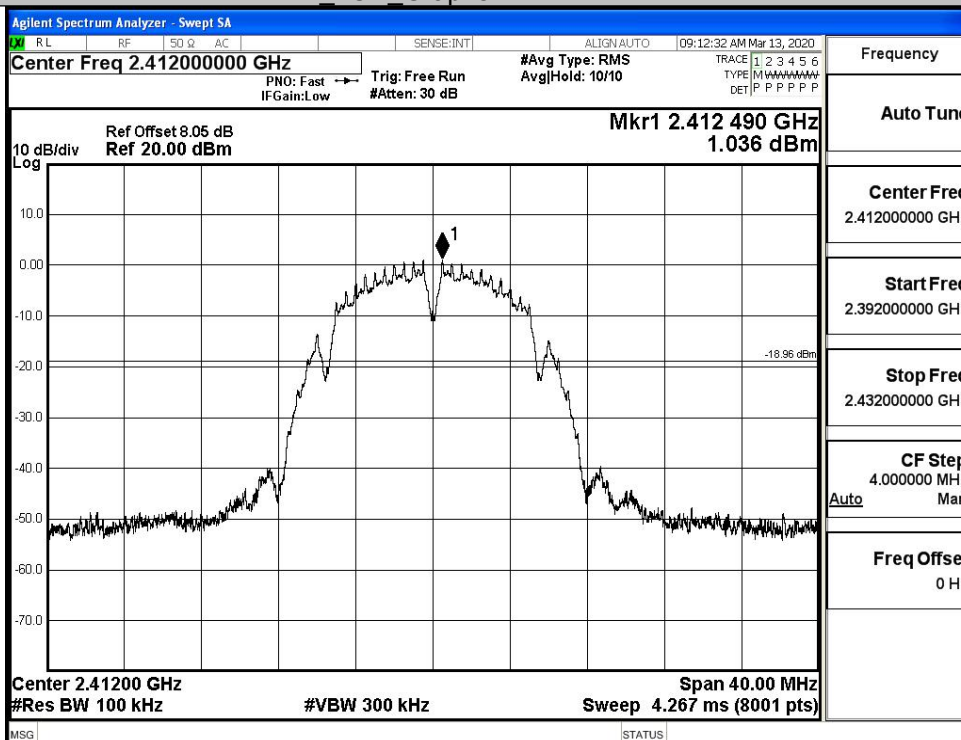
Center Freq
2.462000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

B.5 RF Conducted Spurious Emissions

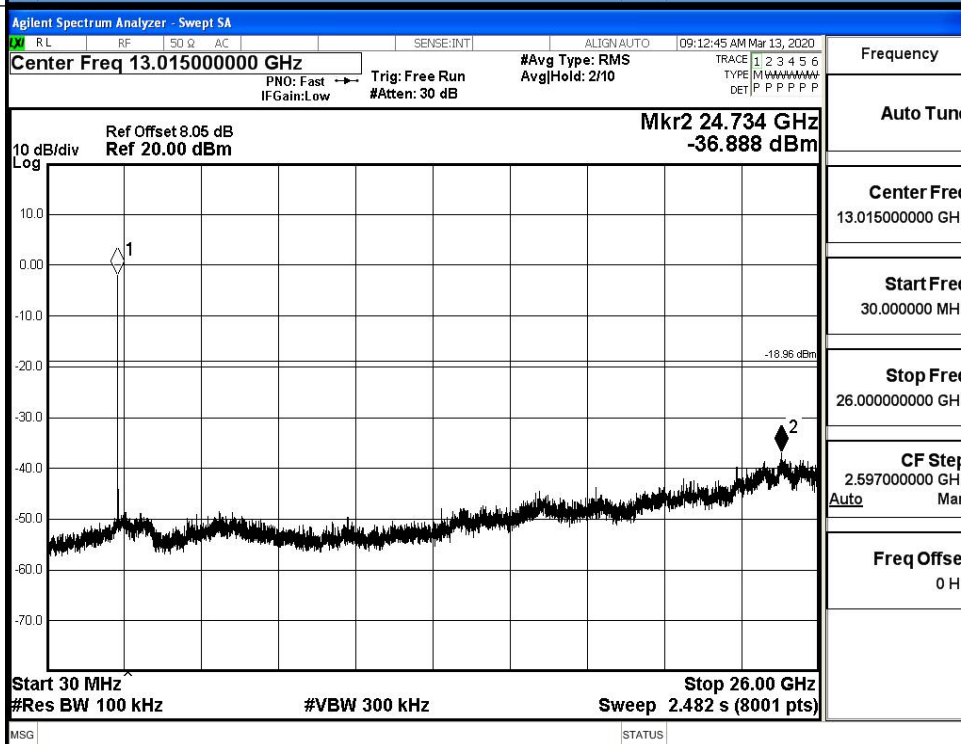
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.036	-36.888	-18.964	PASS
	MCH	0.462	-37.827	-19.538	PASS
	HCH	1.357	-37.382	-18.643	PASS
11G	LCH	-7.151	-37.666	-27.151	PASS
	MCH	-7.391	-37.107	-27.391	PASS
	HCH	-7.849	-37.974	-27.849	PASS
11N20 SISO	LCH	-8.682	-38.105	-28.682	PASS
	MCH	-8.664	-37.782	-28.664	PASS
	HCH	-7.858	-37.723	-27.858	PASS

11B LCH Graphs

Pref/11B/LCH

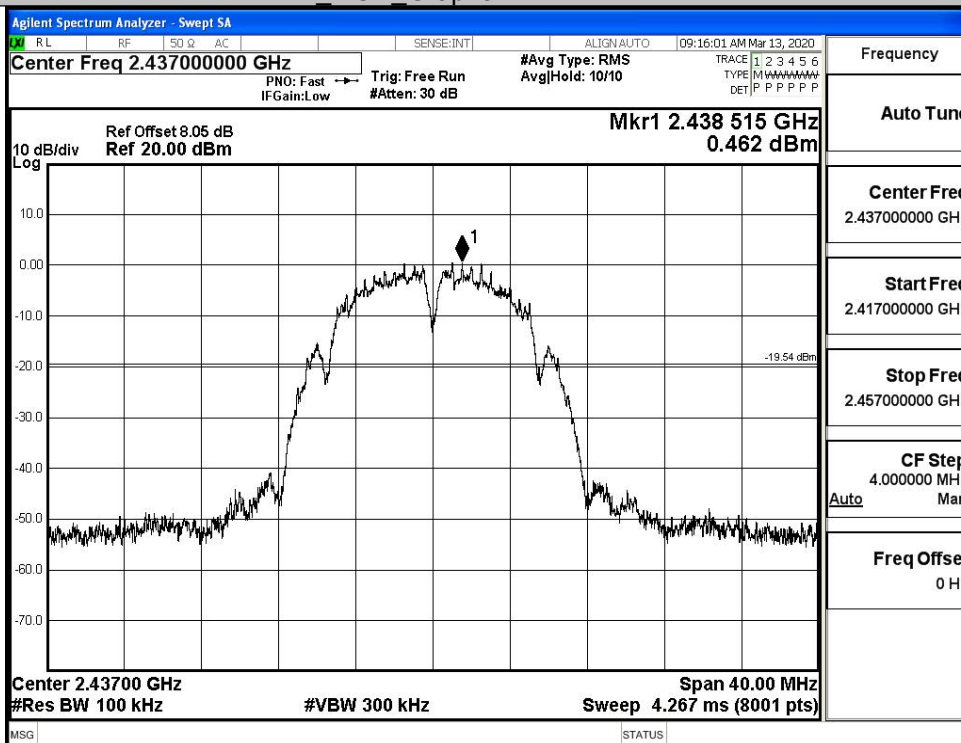


Puw/11B/LCH

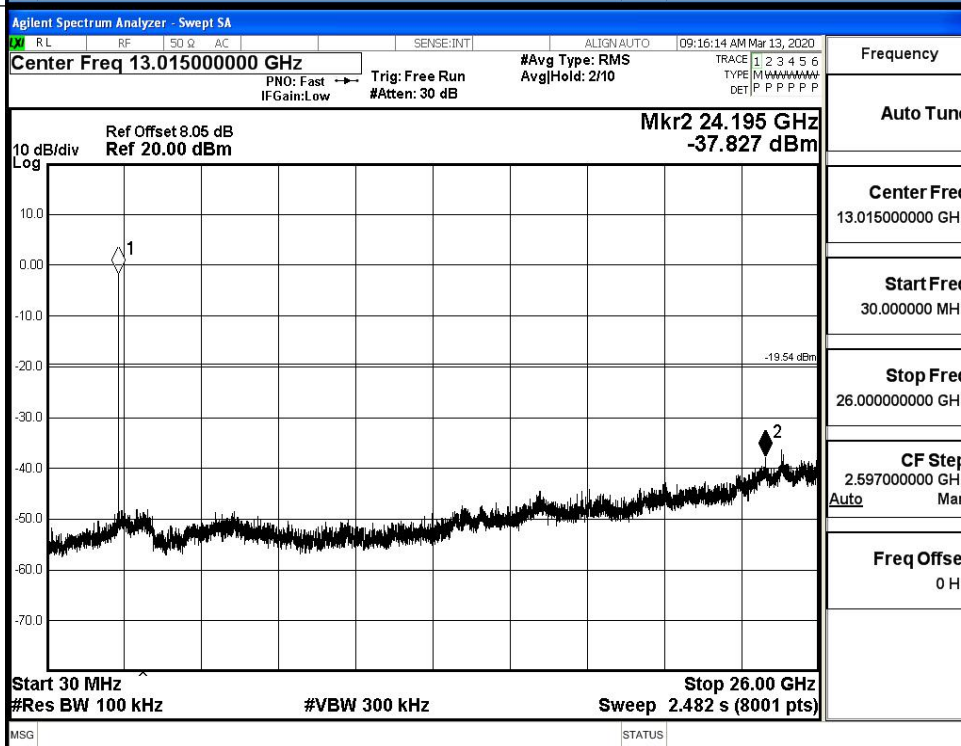


11B MCH Graphs

Pref/11B/MCH

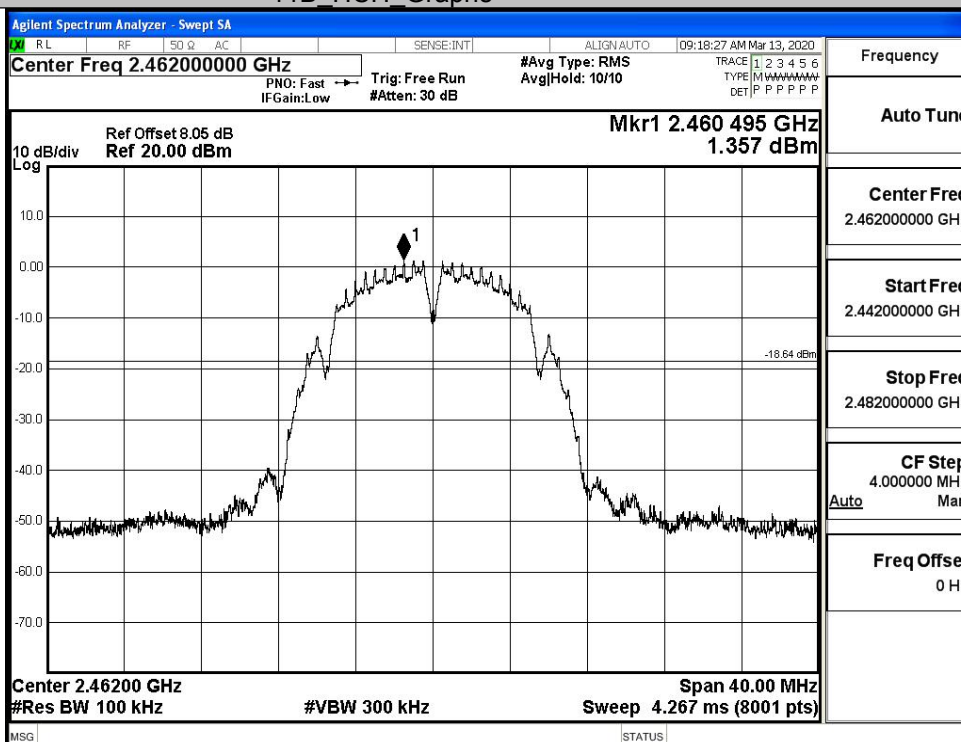


Puw/11B/MCH



11B HCH Graphs

Pref/11B/HCH



Puw/11B/HCH

