

Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Wireless Repeater/AP/Router

Trade Mark: N/A

Test Model: E1322

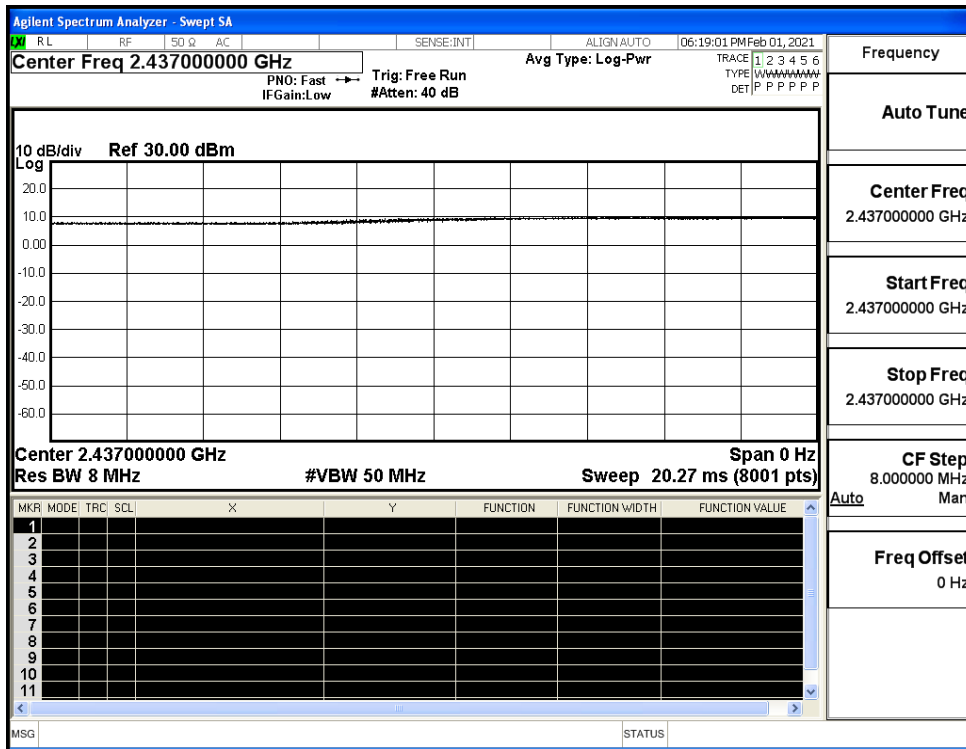
Environmental Conditions

Temperature:	22.1 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

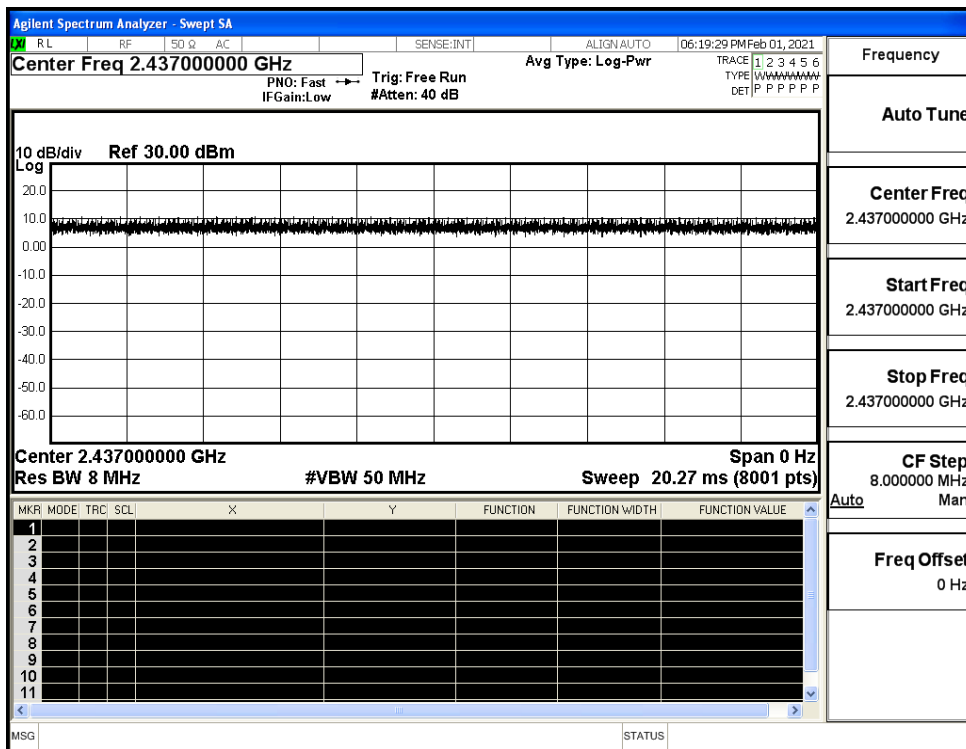
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20SISO	2437	Ant0	100	PASS
11N40SISO	2437	Ant0	100	PASS
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

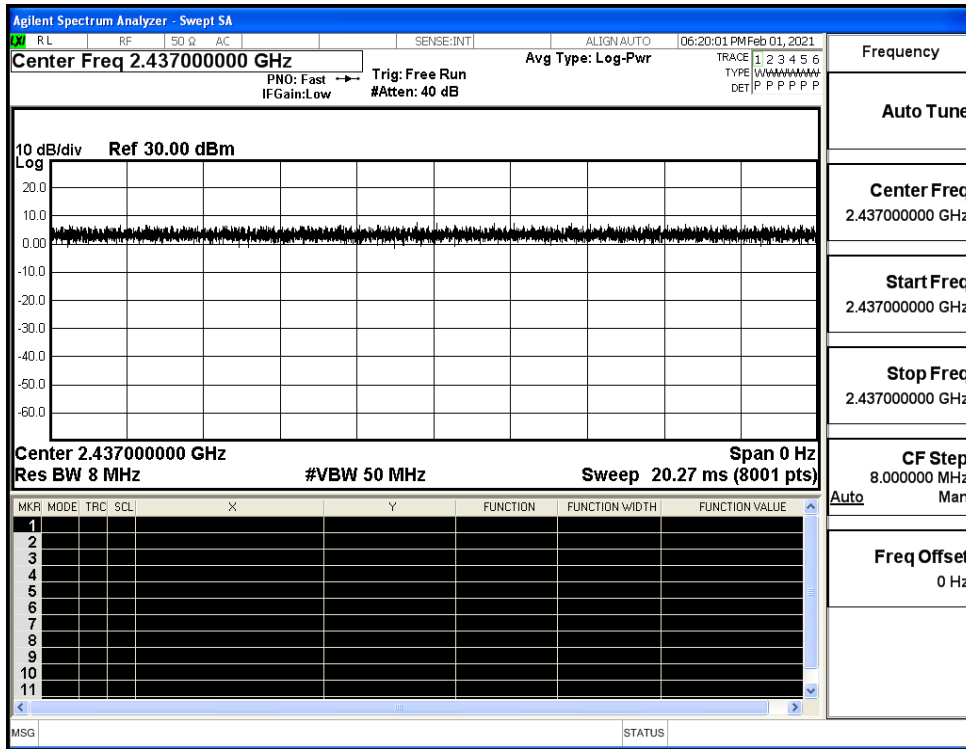
Duty Cycle_11B_2437_Ant1



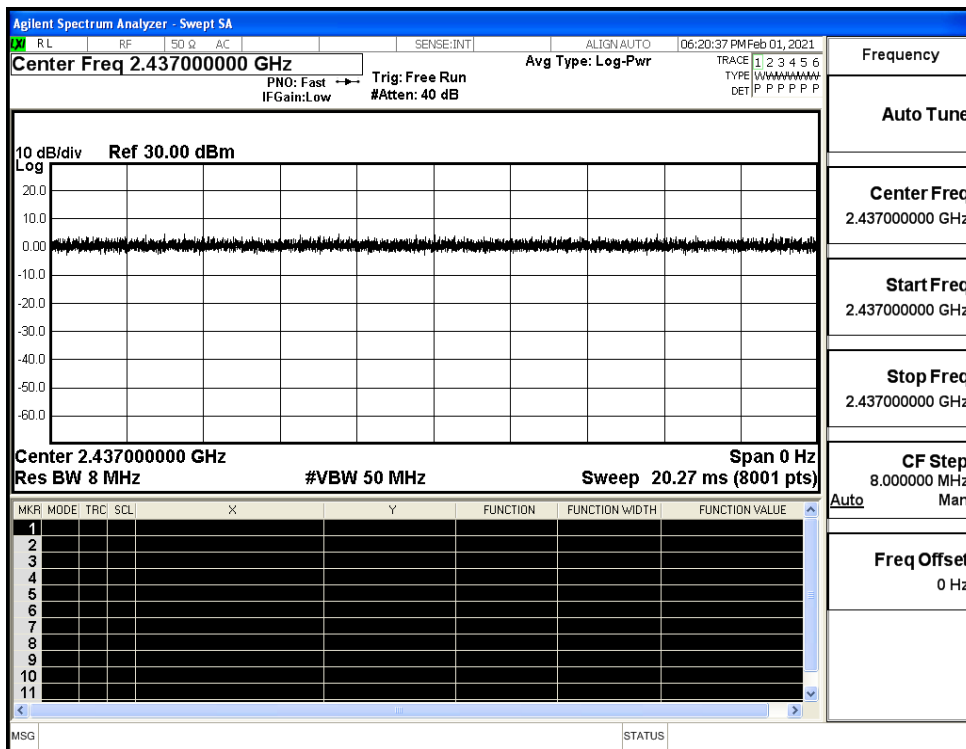
Duty Cycle_11G_2437_Ant1



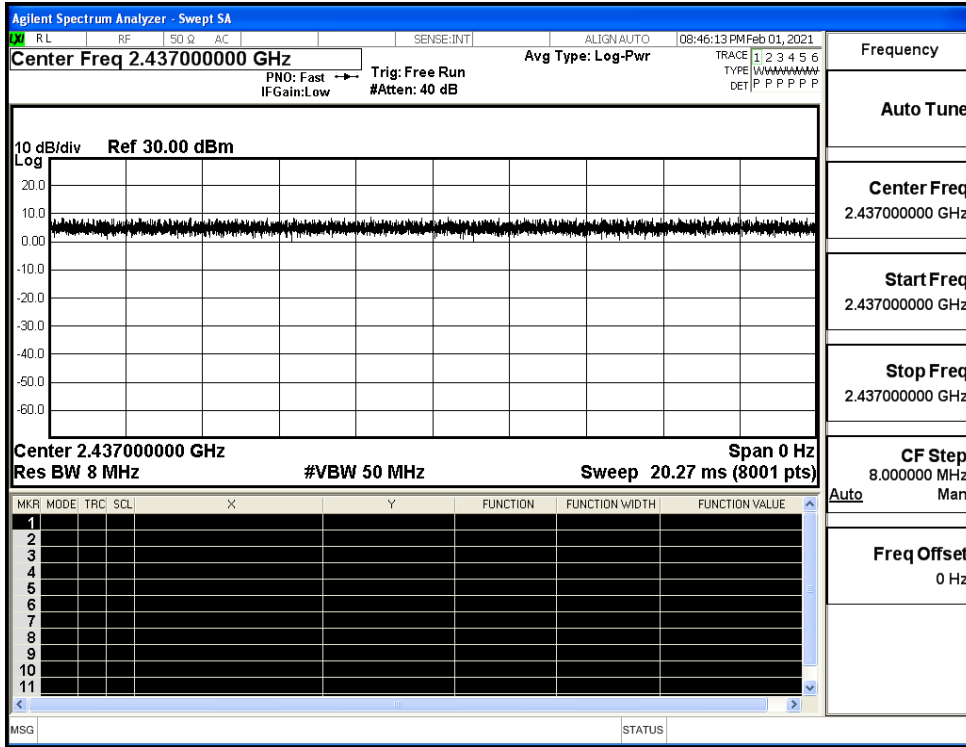
Duty Cycle_11N20SISO_2437_Ant1



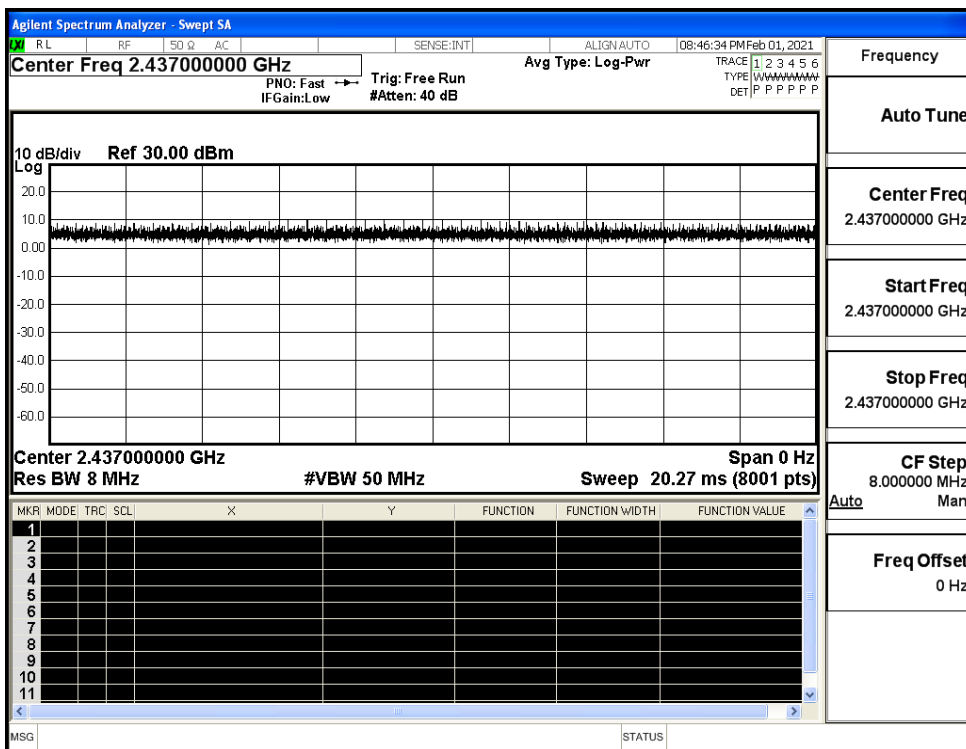
Duty Cycle_11N40SISO_2437_Ant1



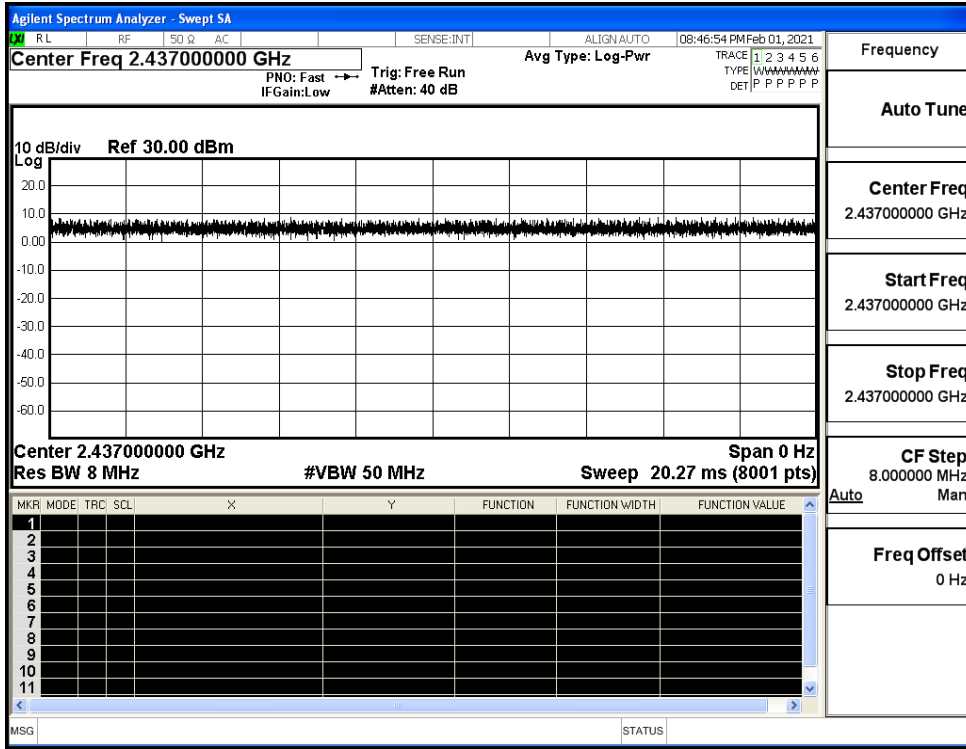
Duty Cycle_11B_2437_Ant1



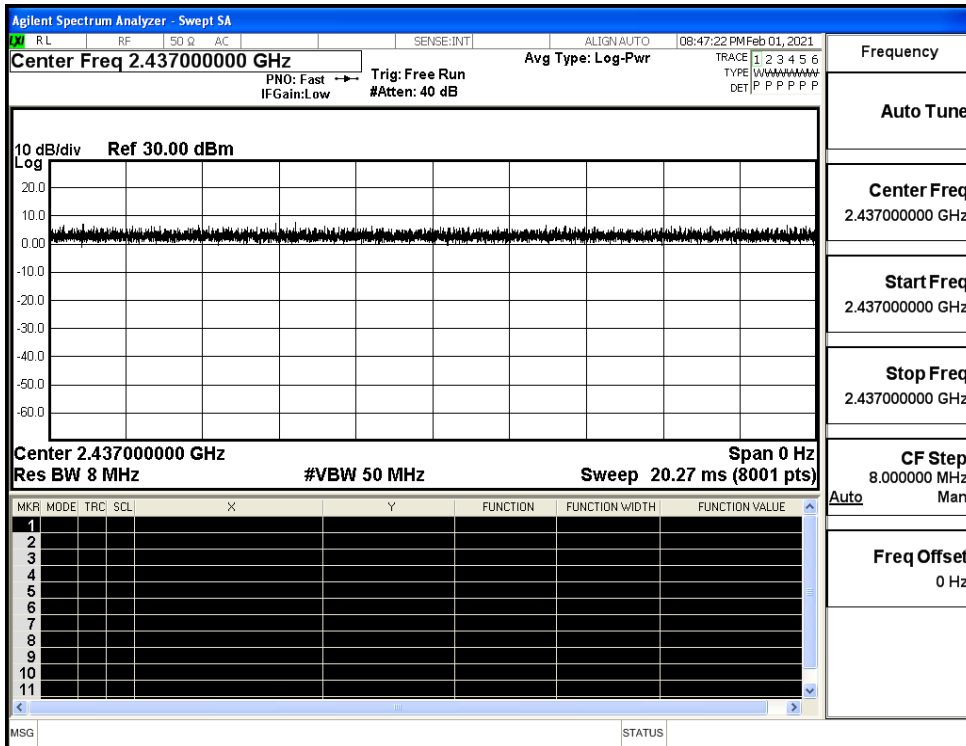
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



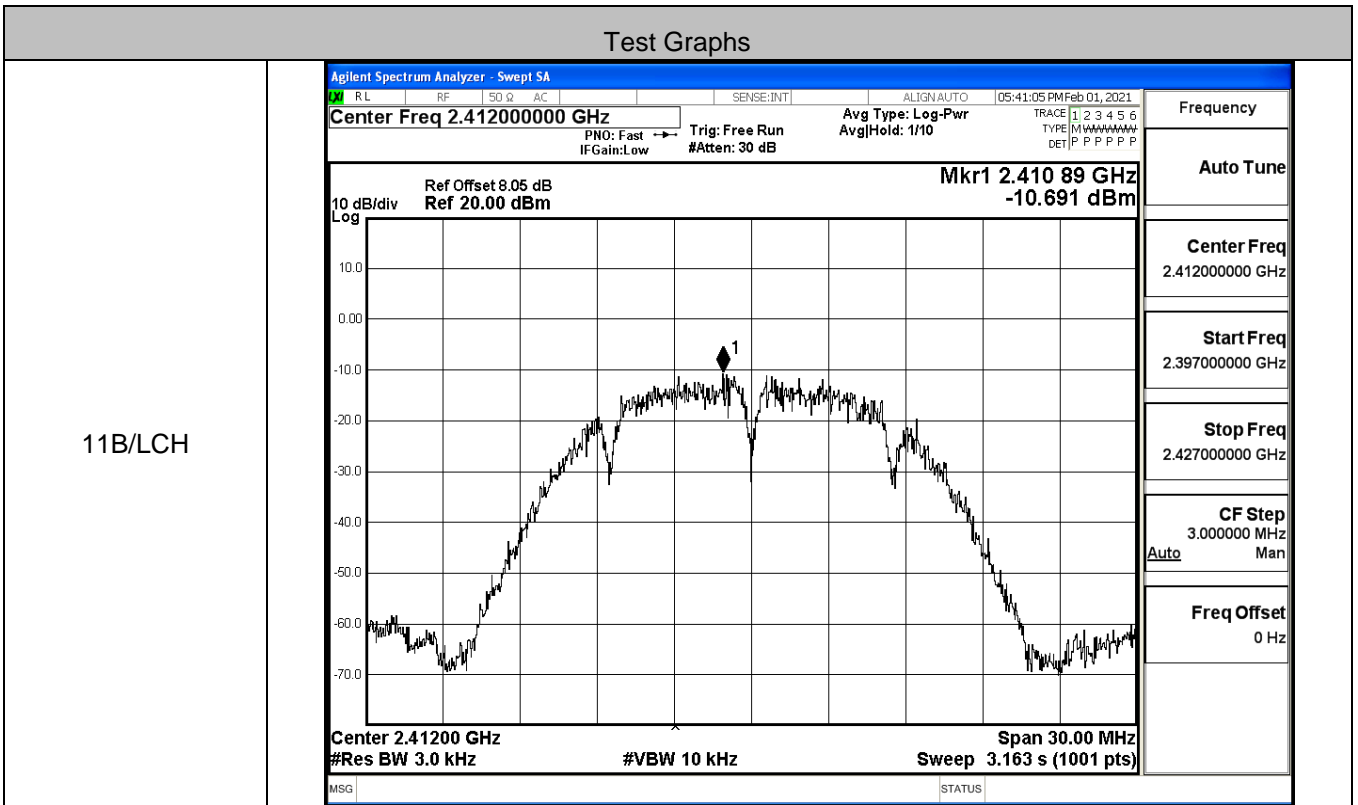
A.2 Maximum Conducted Output Power

Mode	Channel	Peak Power [dBm]			Limit [dBm]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	16.39	14.10	/	30	PASS
	MCH	14.22	14.57	/	30	PASS
	HCH	13.43	15.14	/	30	PASS
11G	LCH	16.40	12.85	/	30	PASS
	MCH	16.53	15.89	/	30	PASS
	HCH	14.05	15.41	/	30	PASS
11N20	LCH	15.90	12.88	17.66	30	PASS
	MCH	14.49	14.68	17.60	30	PASS
	HCH	14.11	14.65	17.40	30	PASS
11N40	LCH	14.93	12.78	17.00	30	PASS
	MCH	14.16	13.87	17.03	30	PASS
	HCH	13.97	14.31	17.15	30	PASS

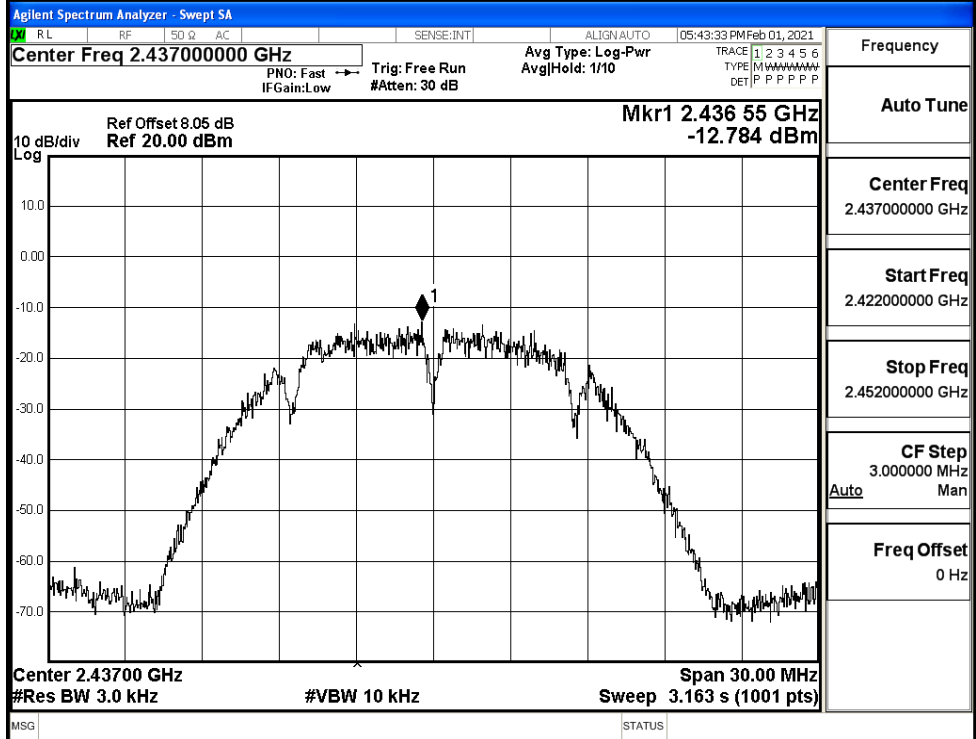
A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		Ant 0	Ant 1	Sum		
11B	LCH	-10.691	-17.122	/	8	PASS
	MCH	-12.784	-18.345	/	8	PASS
	HCH	-13.444	-18.087	/	8	PASS
11G	LCH	-16.253	-22.146	/	8	PASS
	MCH	-16.328	-19.085	/	8	PASS
	HCH	-18.905	-18.776	/	8	PASS
11N20	LCH	-15.353	-22.547	-14.59	7.5	PASS
	MCH	-17.087	-19.658	-15.17	7.5	PASS
	HCH	-17.604	-19.220	-15.33	7.5	PASS
11N40	LCH	-19.440	-22.524	-17.70	7.5	PASS
	MCH	-19.621	-20.246	-16.91	7.5	PASS
	HCH	-20.270	-18.769	-16.44	7.5	PASS

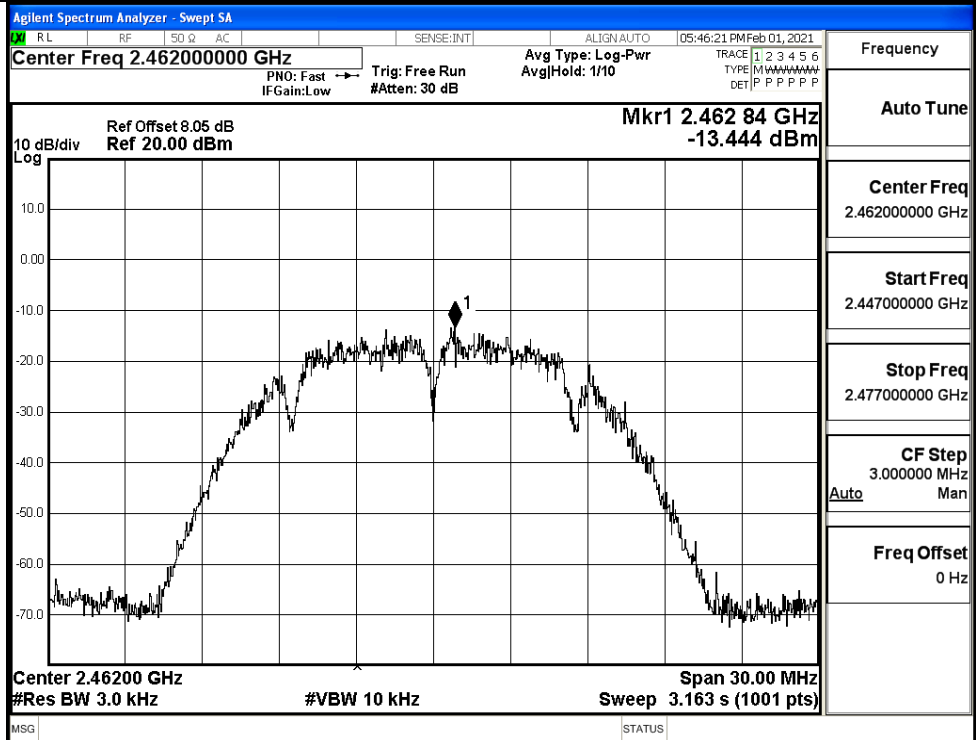
ANT0:



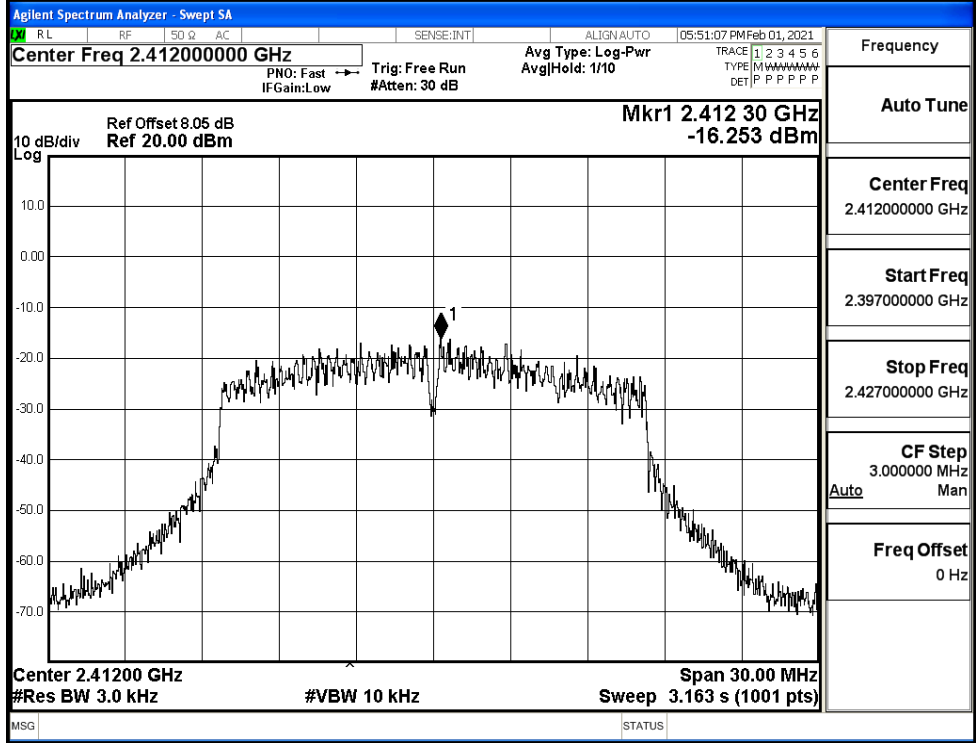
11B/MCH



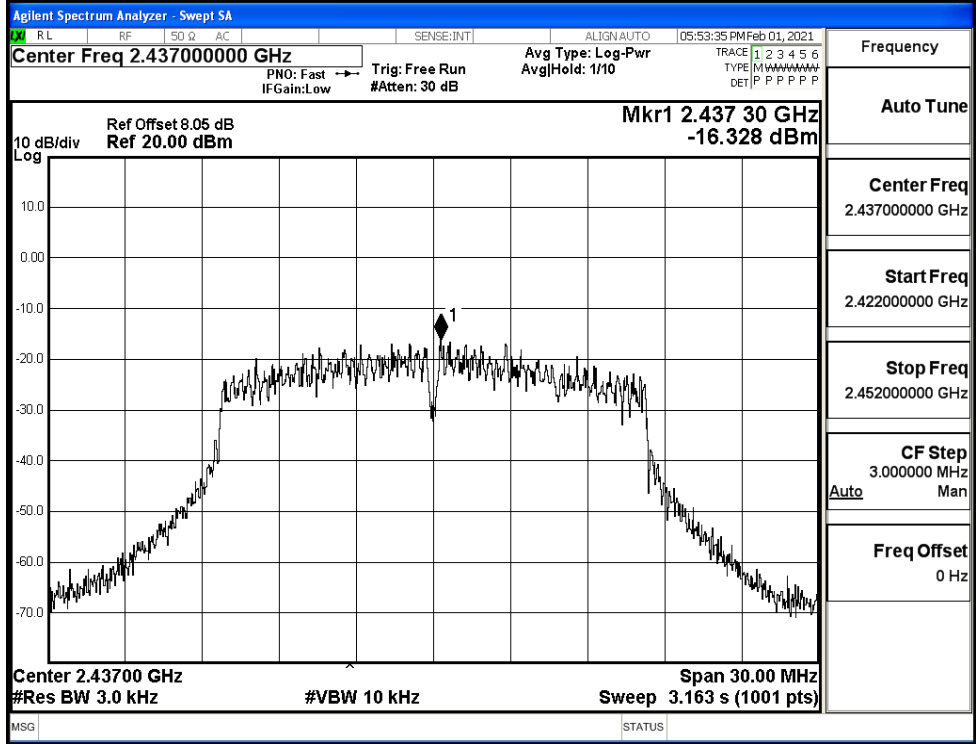
11B/HCH



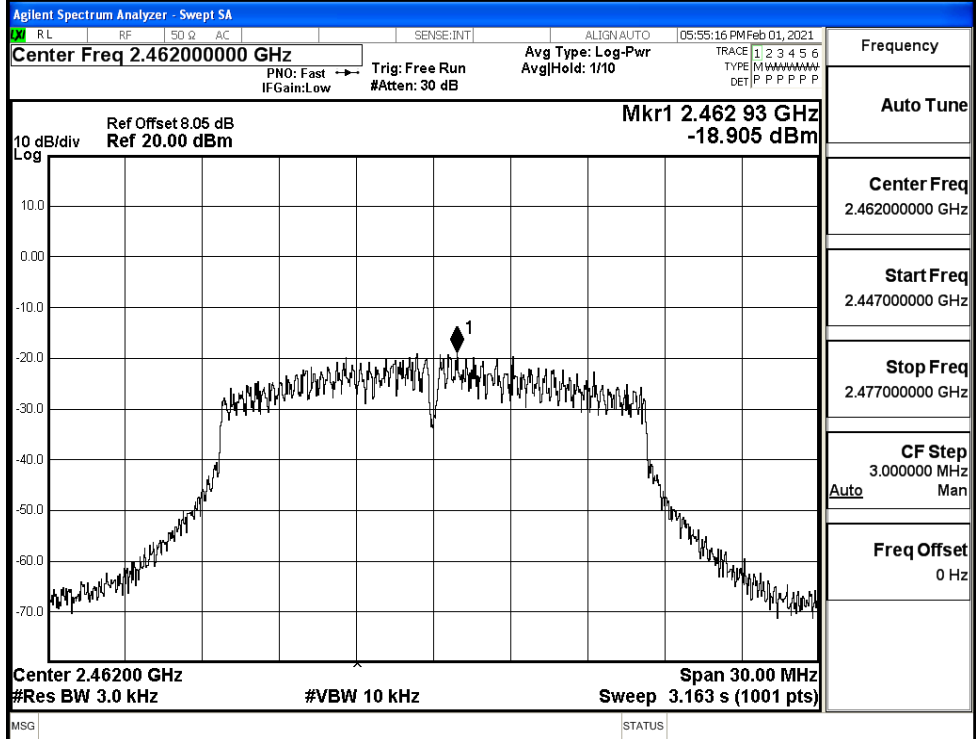
11G/LCH



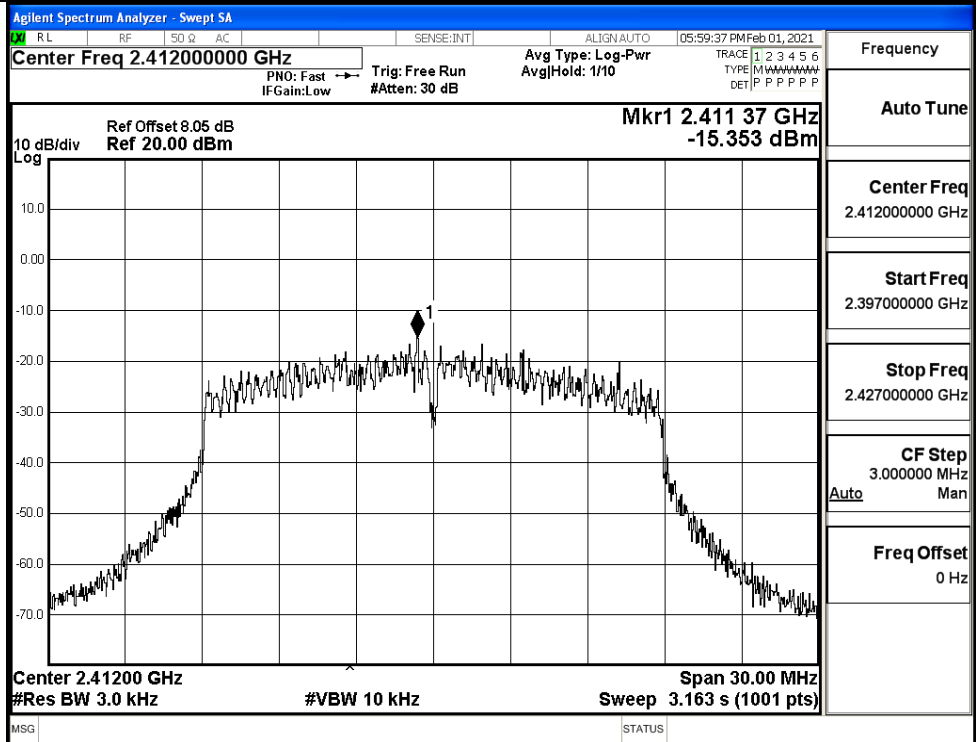
11G/MCH



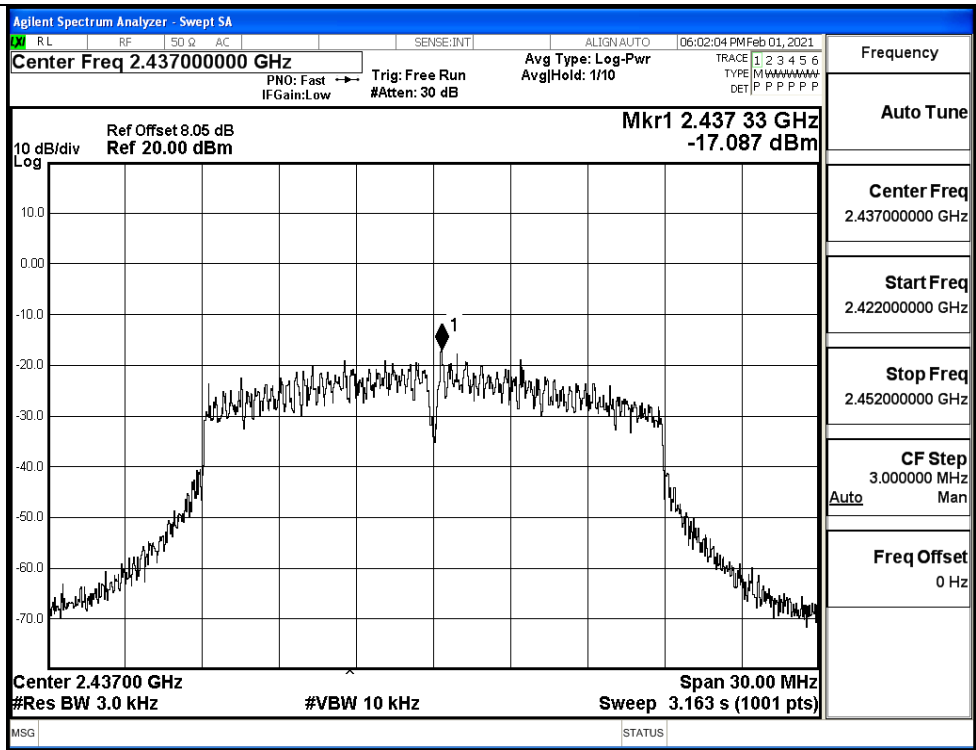
11G/HCH



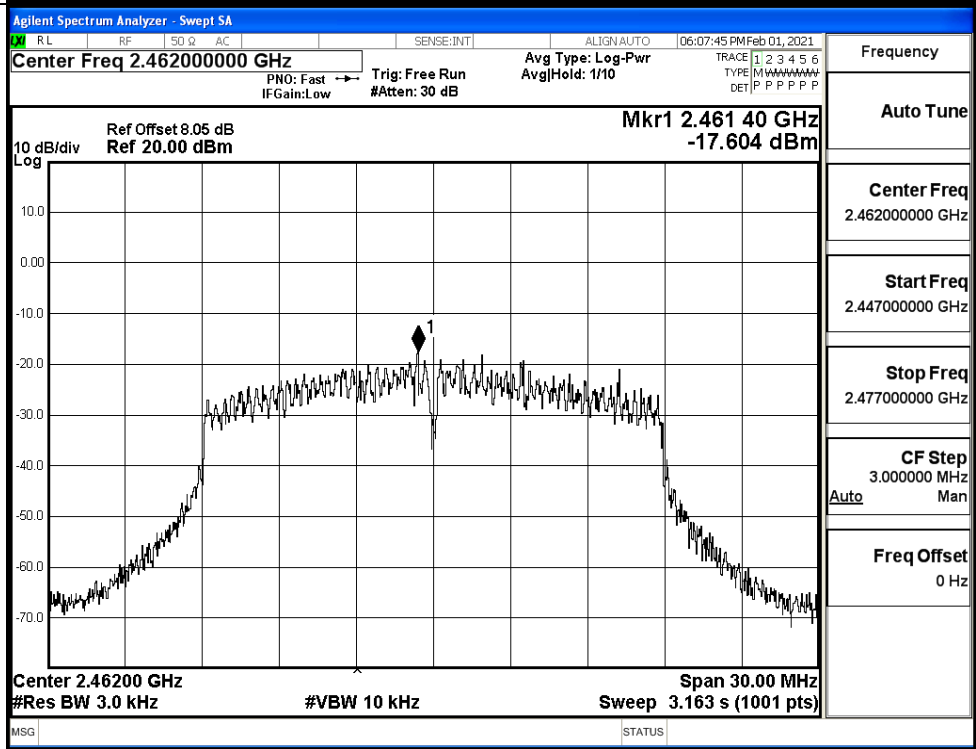
11N20SISO/LCH



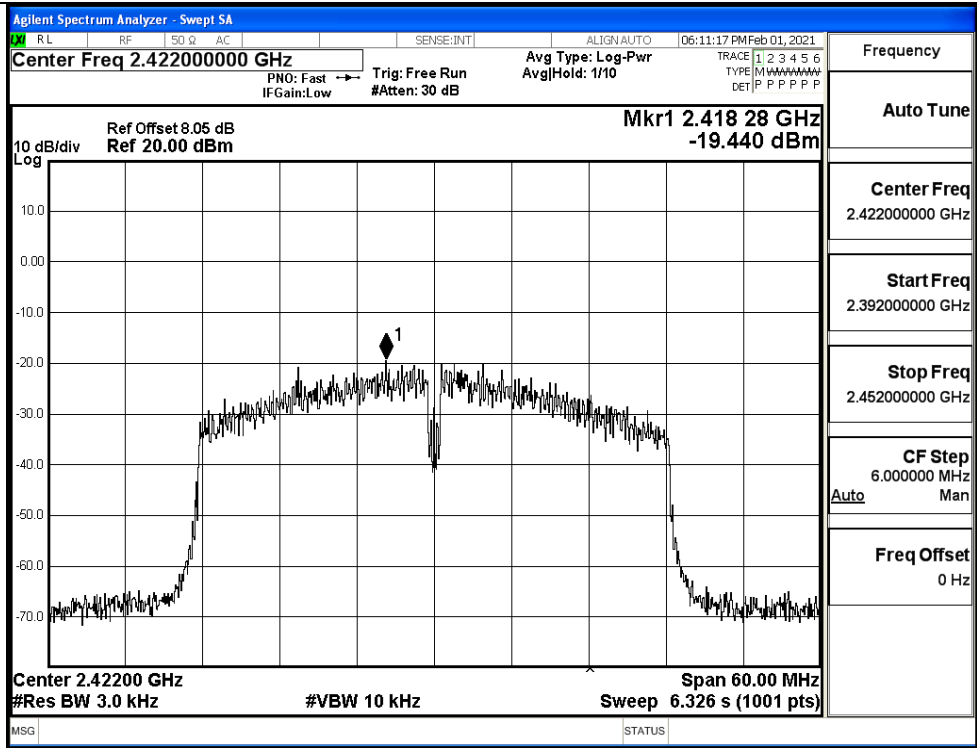
11N20SISO/MCH



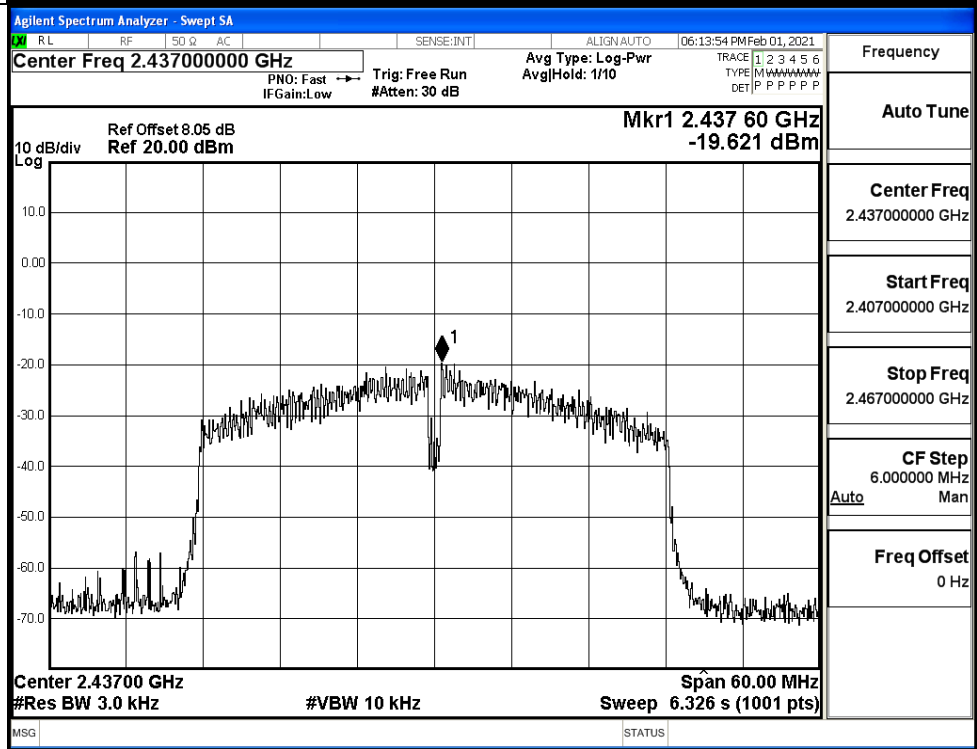
11N20SISO/HCH



11N40SISO/LCH



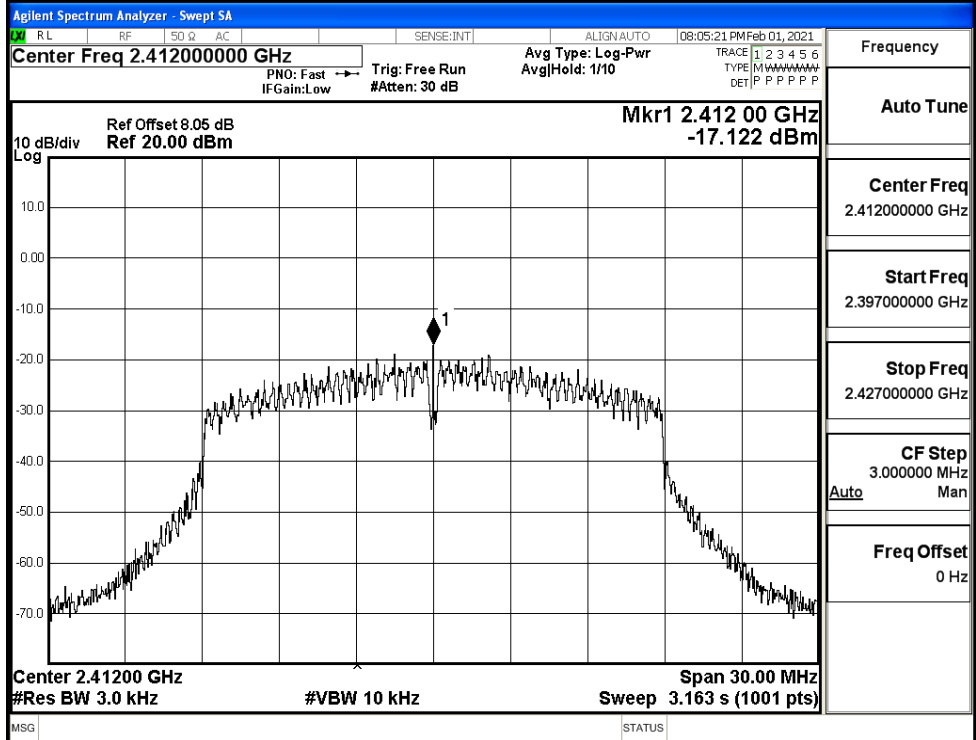
11N40SISO/MCH



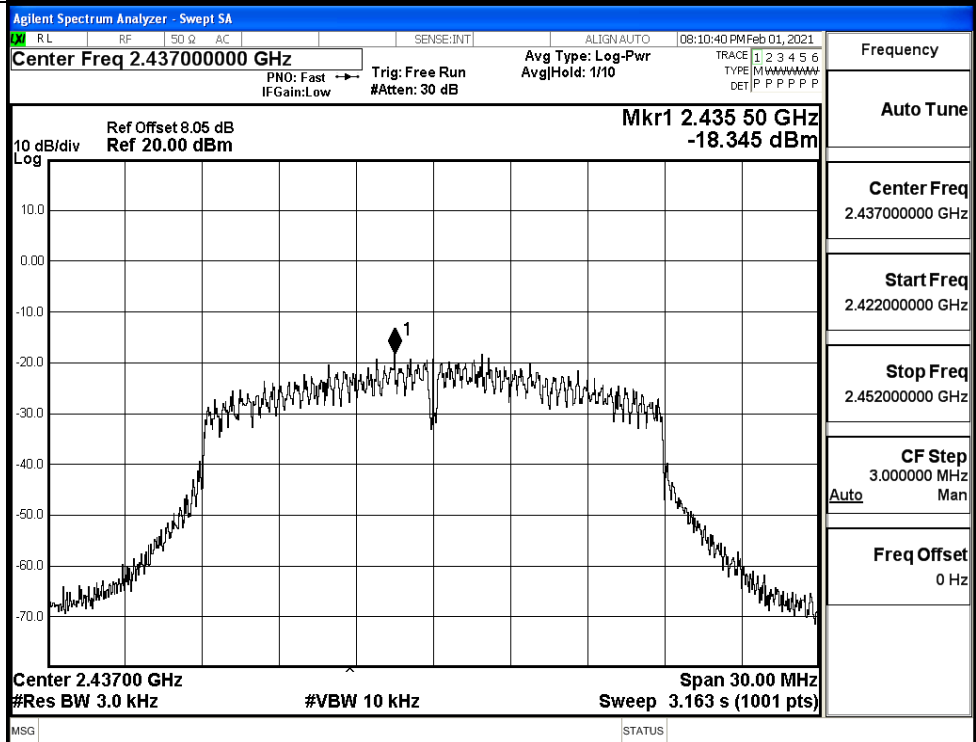
ANT1:

Test Graphs

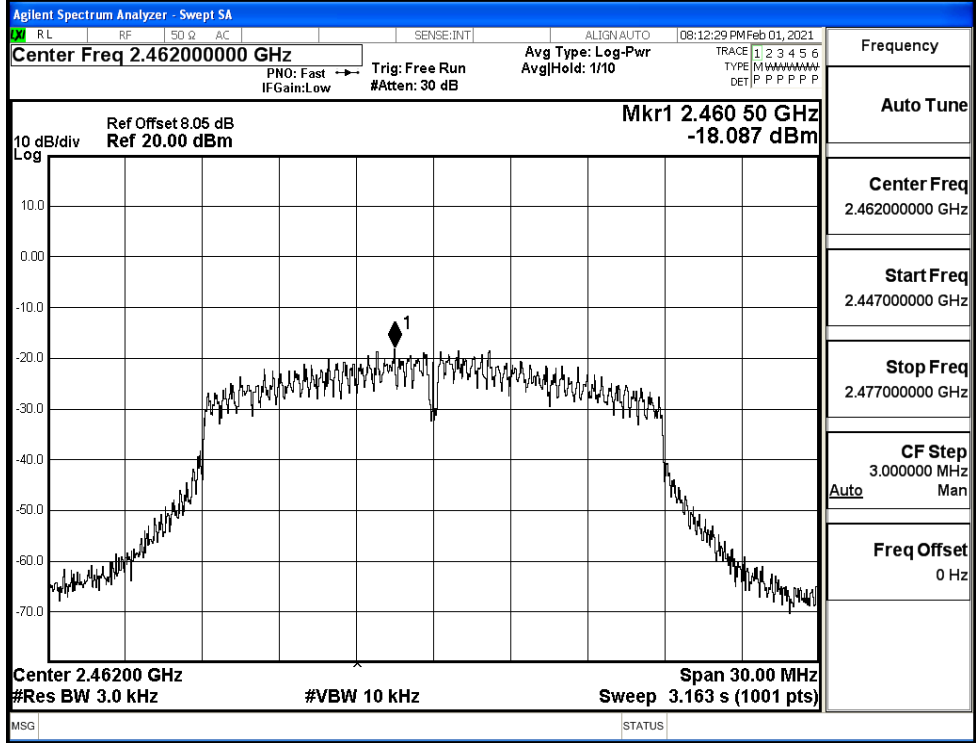
11B/LCH



11B/MCH

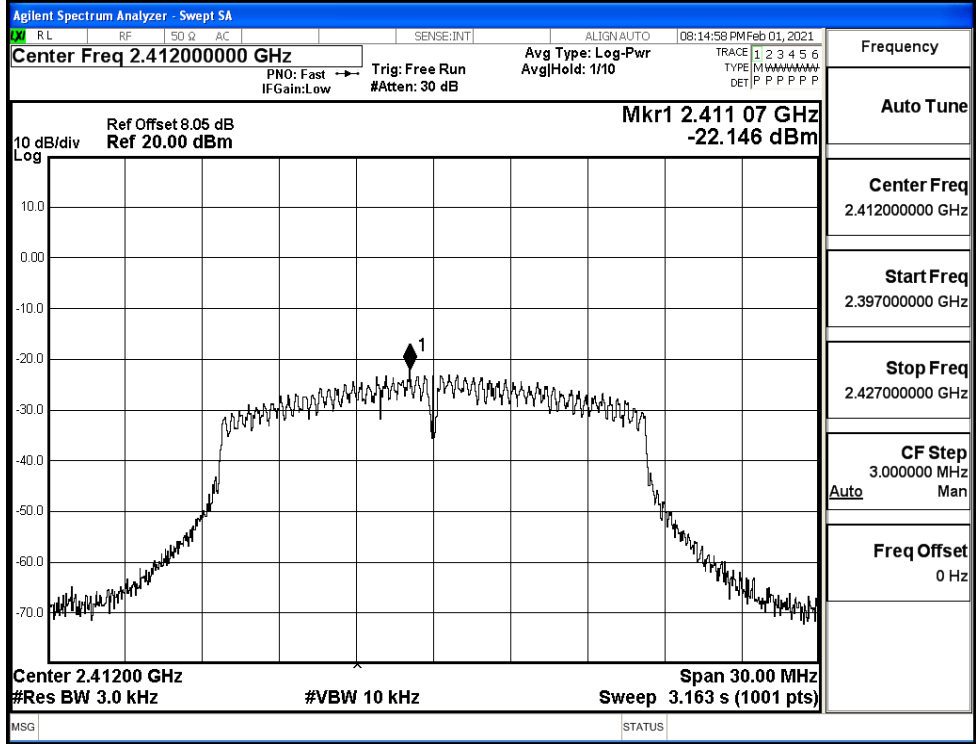


11B/HCH



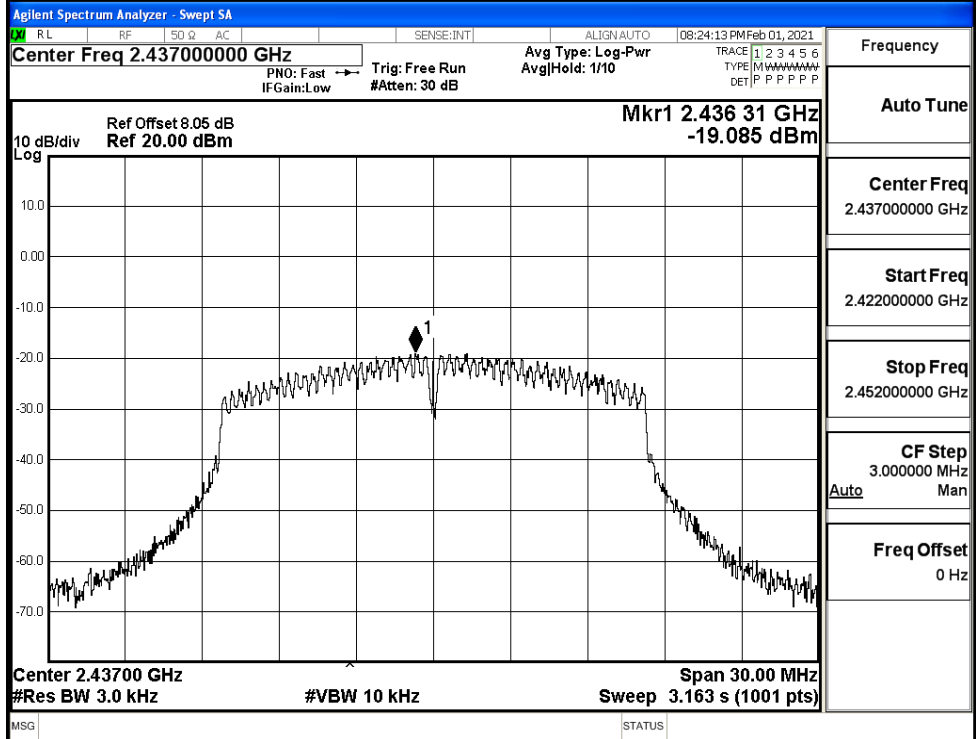
Frequency
Auto Tune
Center Freq 2.46200000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11G/LCH

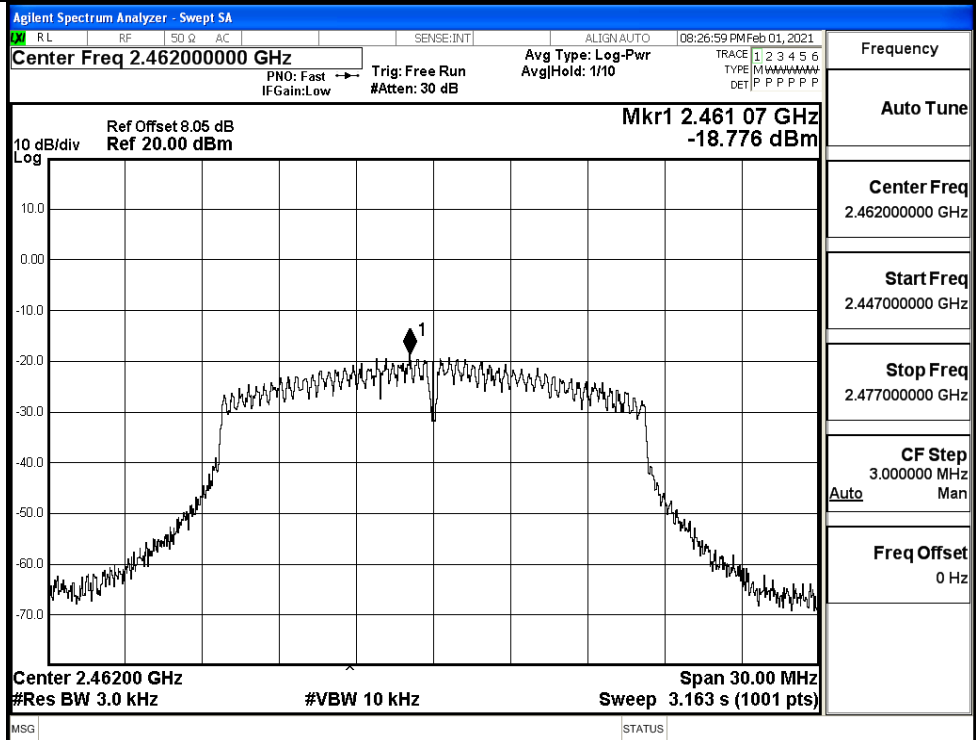


Frequency
Auto Tune
Center Freq 2.412000000 GHz
Start Freq 2.397000000 GHz
Stop Freq 2.427000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

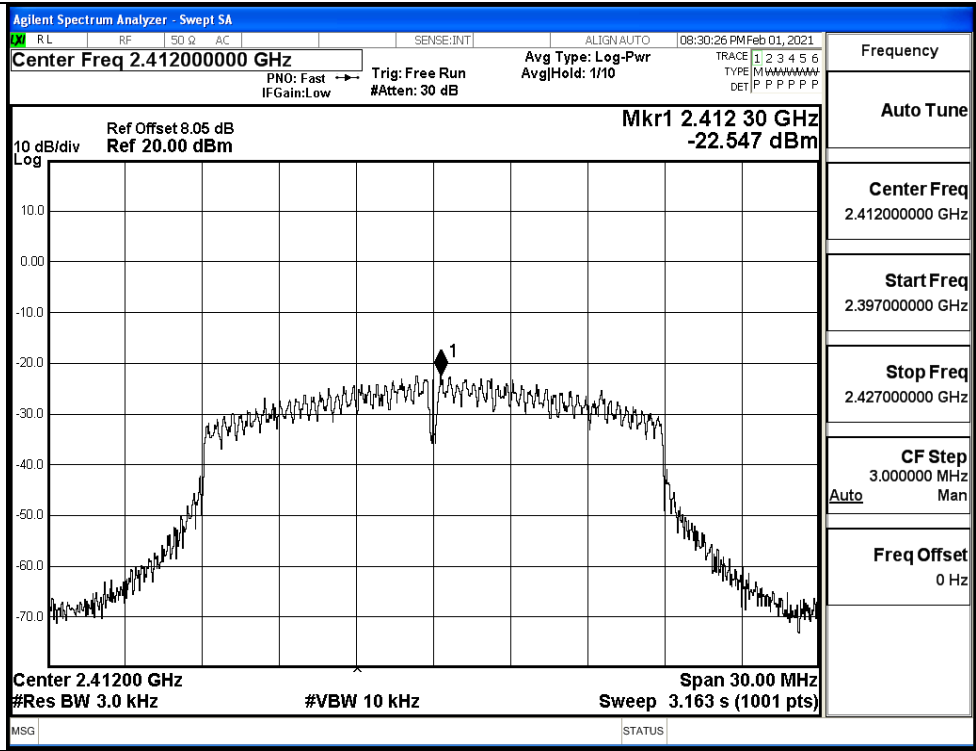
11G/MCH



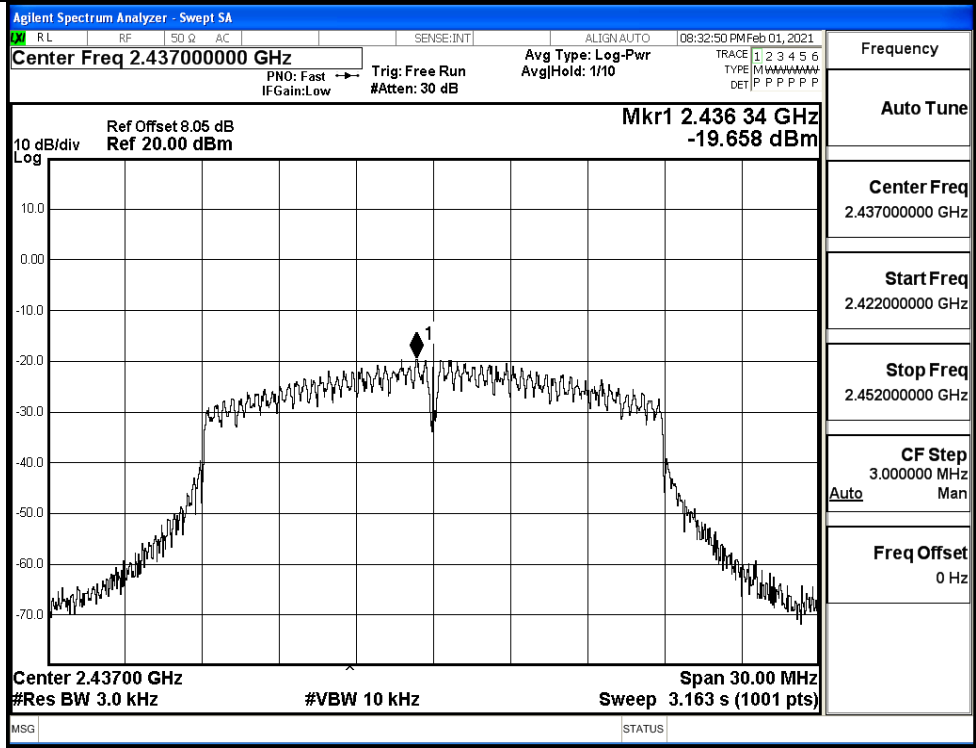
11G/HCH



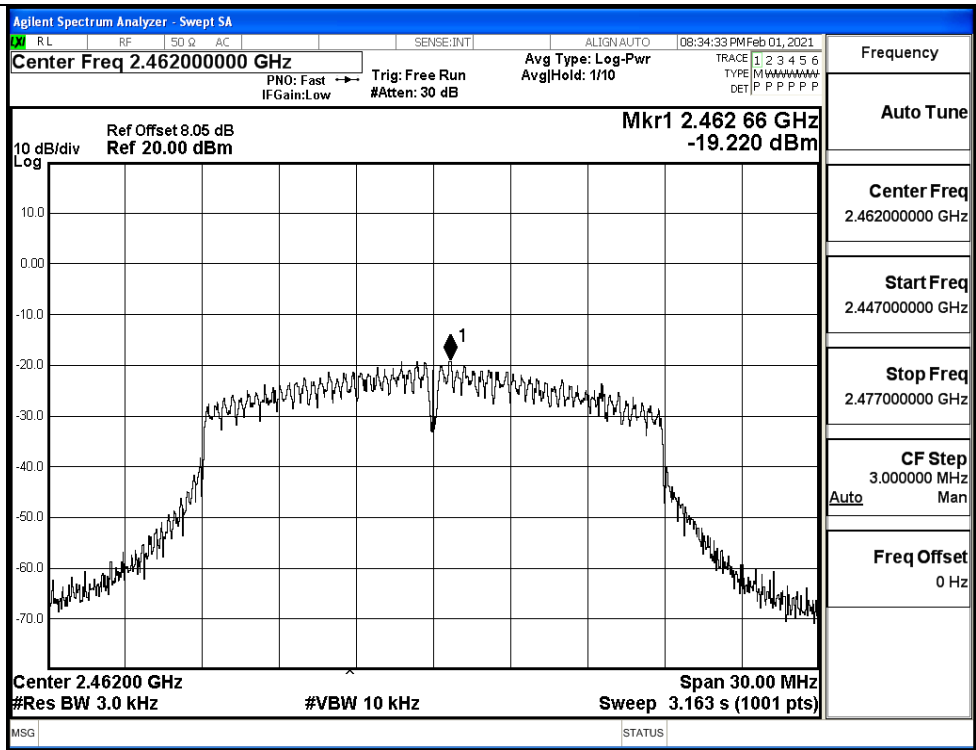
11N20SISO/LCH



11N20SISO/MCH

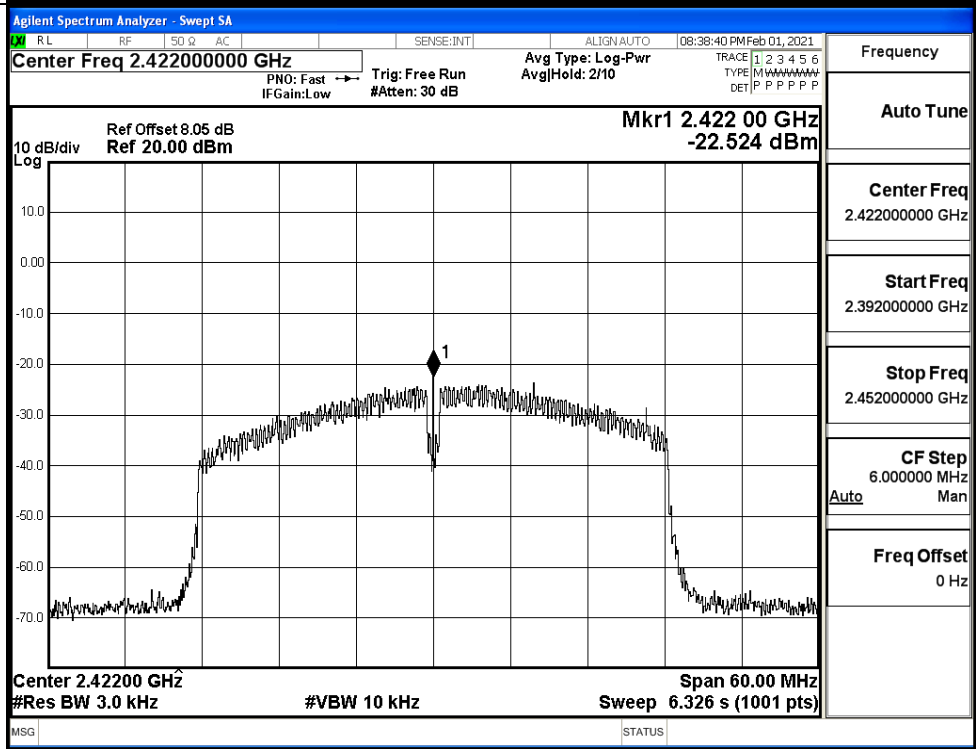


11N20SISO/HCH



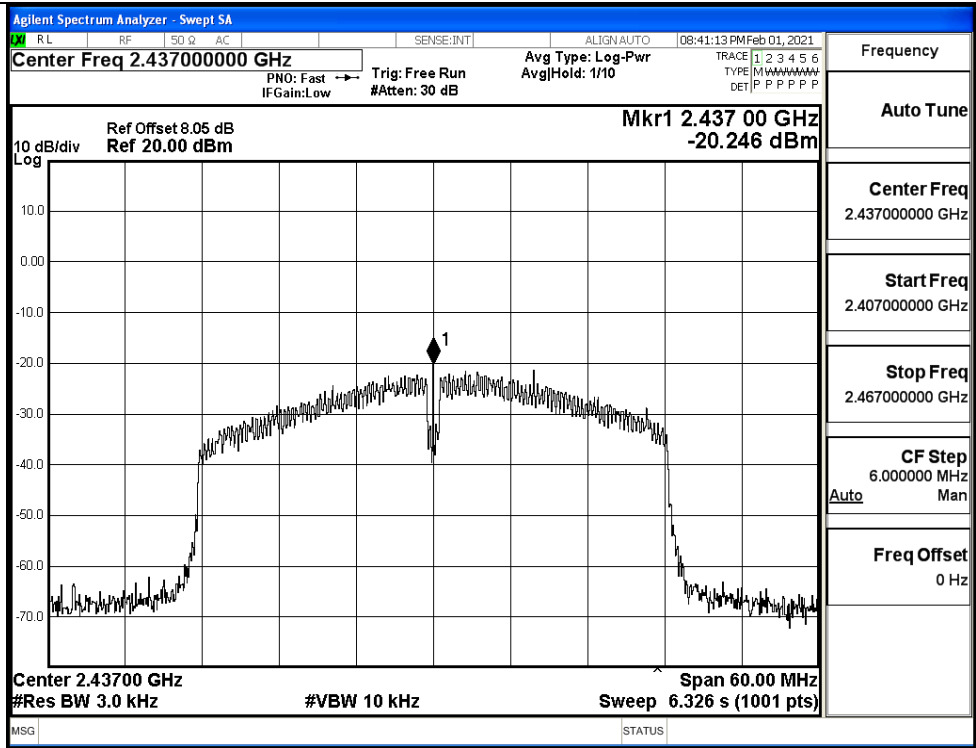
Frequency
Auto Tune
Center Freq 2.46200000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Auto Man
Freq Offset 0 Hz

11N40SISO/LCH



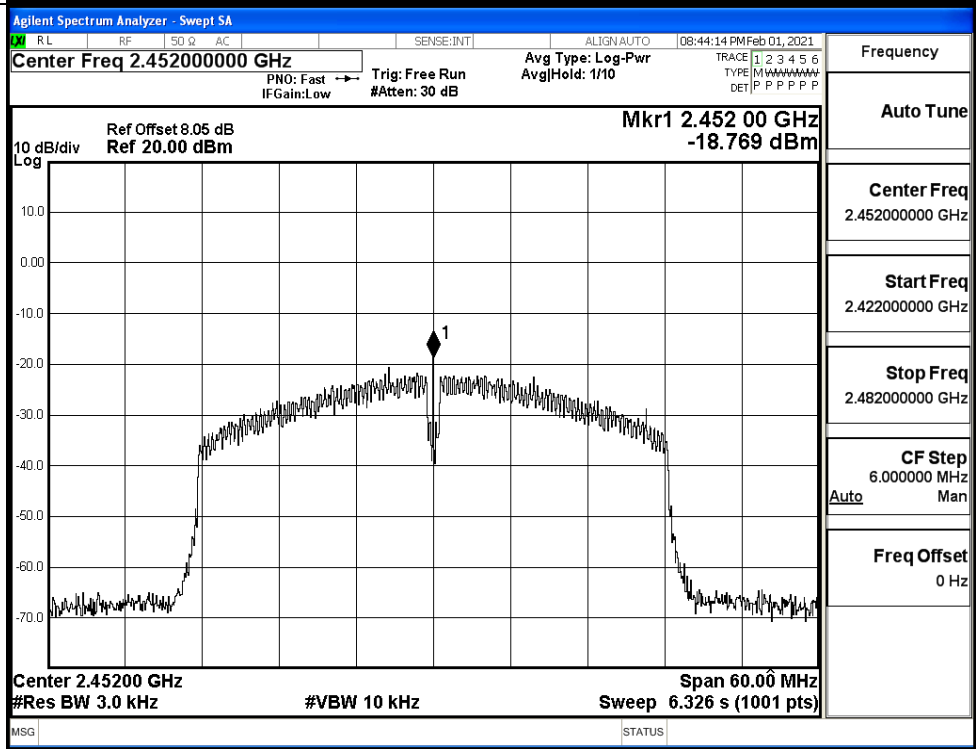
Frequency
Auto Tune
Center Freq 2.422000000 GHz
Start Freq 2.392000000 GHz
Stop Freq 2.452000000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

11N40SISO/MCH



Frequency
Auto Tune
Center Freq 2.43700000 GHz
Start Freq 2.407000000 GHz
Stop Freq 2.467000000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

11N40SISO/HCH

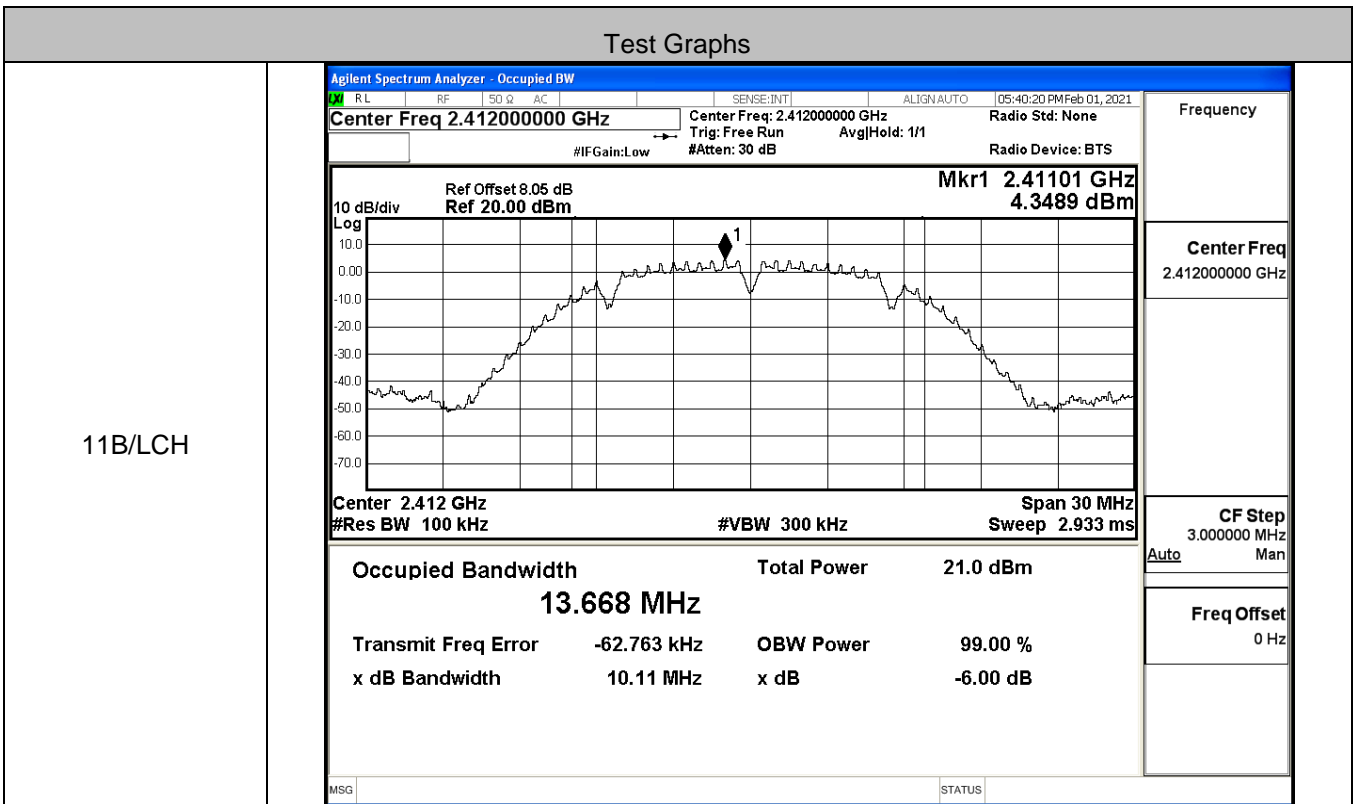


Frequency
Auto Tune
Center Freq 2.45200000 GHz
Start Freq 2.422000000 GHz
Stop Freq 2.482000000 GHz
CF Step 6.000000 MHz Auto Man
Freq Offset 0 Hz

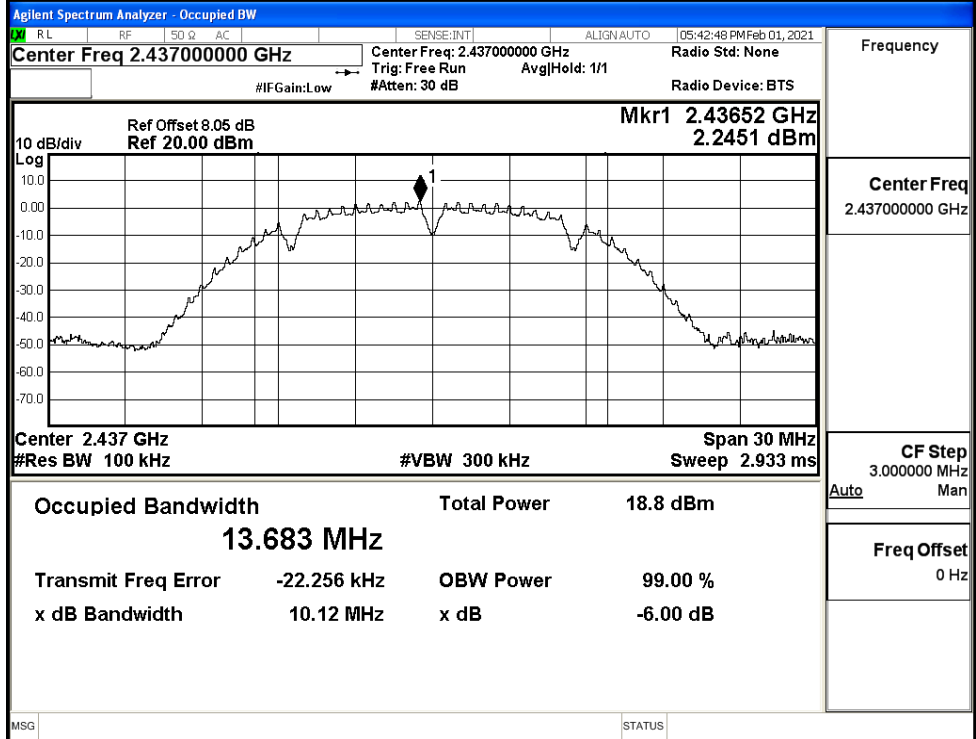
A.4 6dB Bandwidth

ANT 0

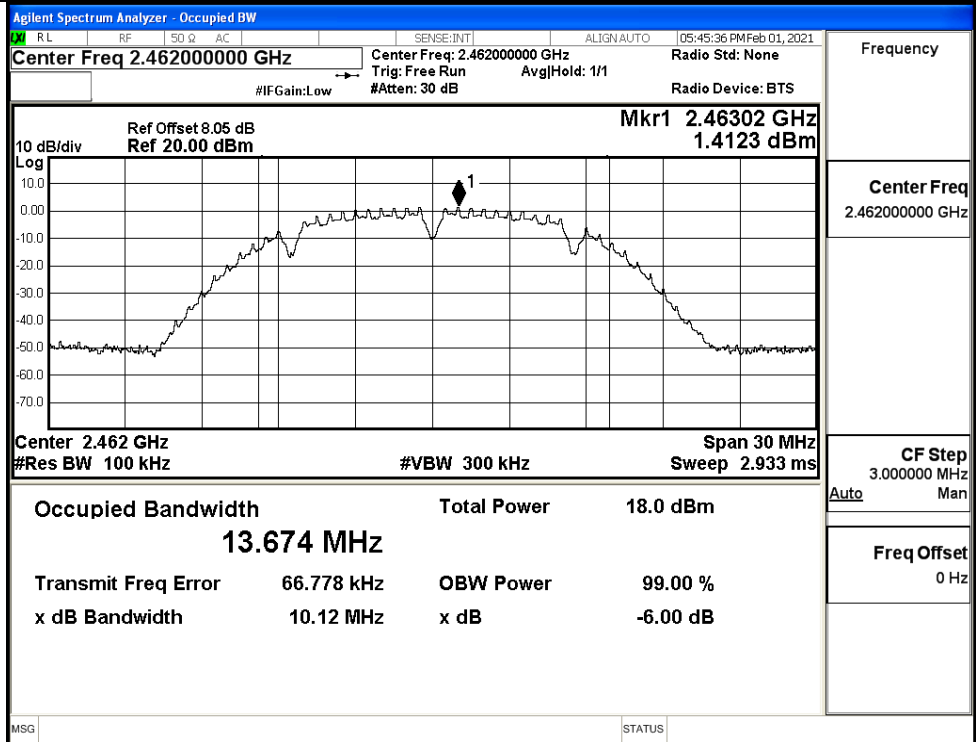
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.11	≥0.5	PASS
	MCH	10.12	≥0.5	PASS
	HCH	10.12	≥0.5	PASS
11G	LCH	13.79	≥0.5	PASS
	MCH	13.83	≥0.5	PASS
	HCH	13.85	≥0.5	PASS
11N20SISO	LCH	13.83	≥0.5	PASS
	MCH	15.04	≥0.5	PASS
	HCH	13.82	≥0.5	PASS
11N40SISO	LCH	23.89	≥0.5	PASS
	MCH	23.90	≥0.5	PASS
	HCH	25.05	≥0.5	PASS



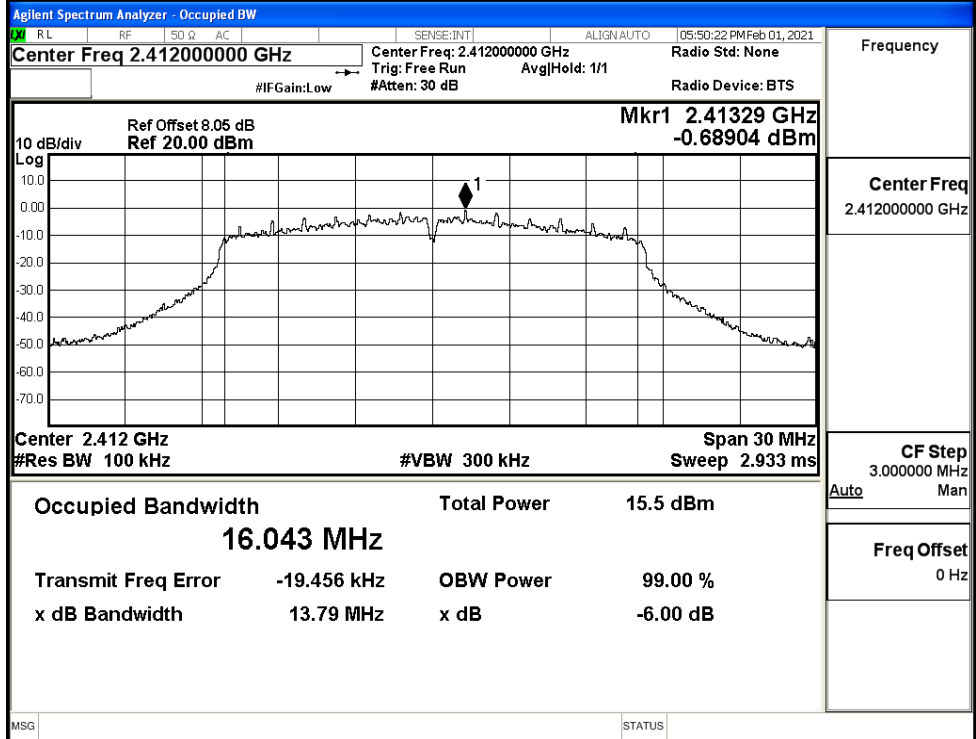
11B/MCH



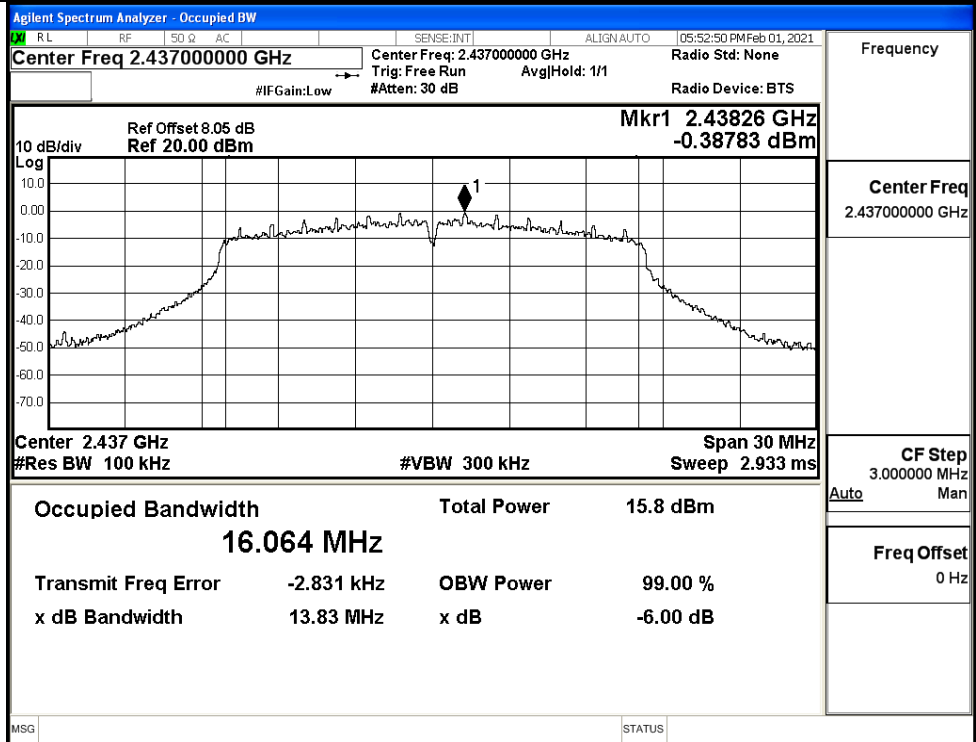
11B/HCH



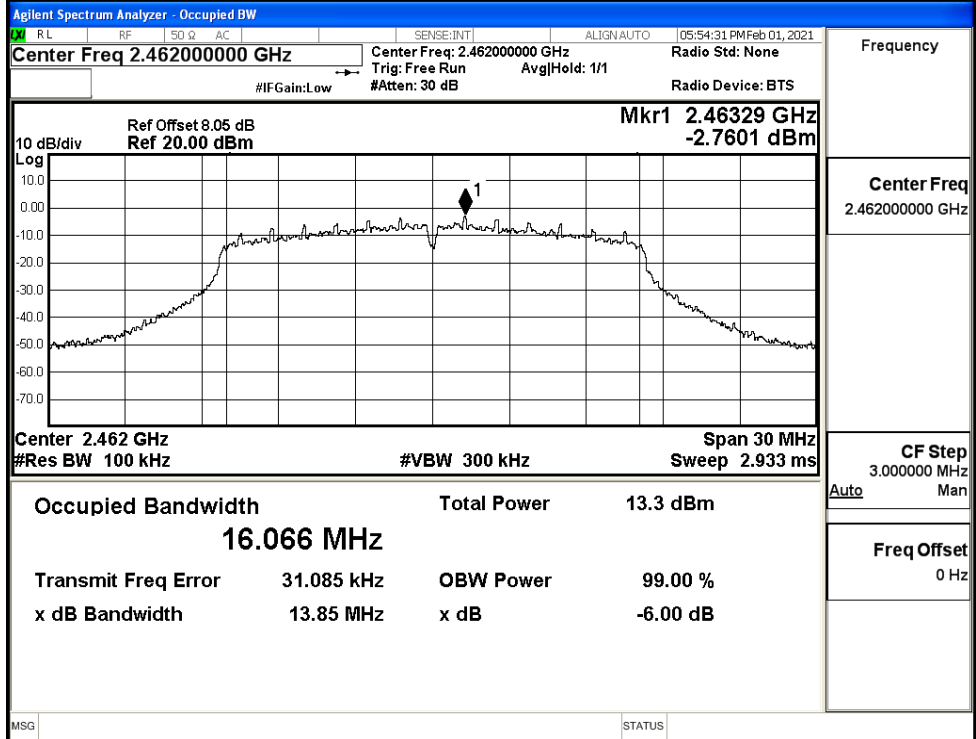
11G/LCH



11G/MCH

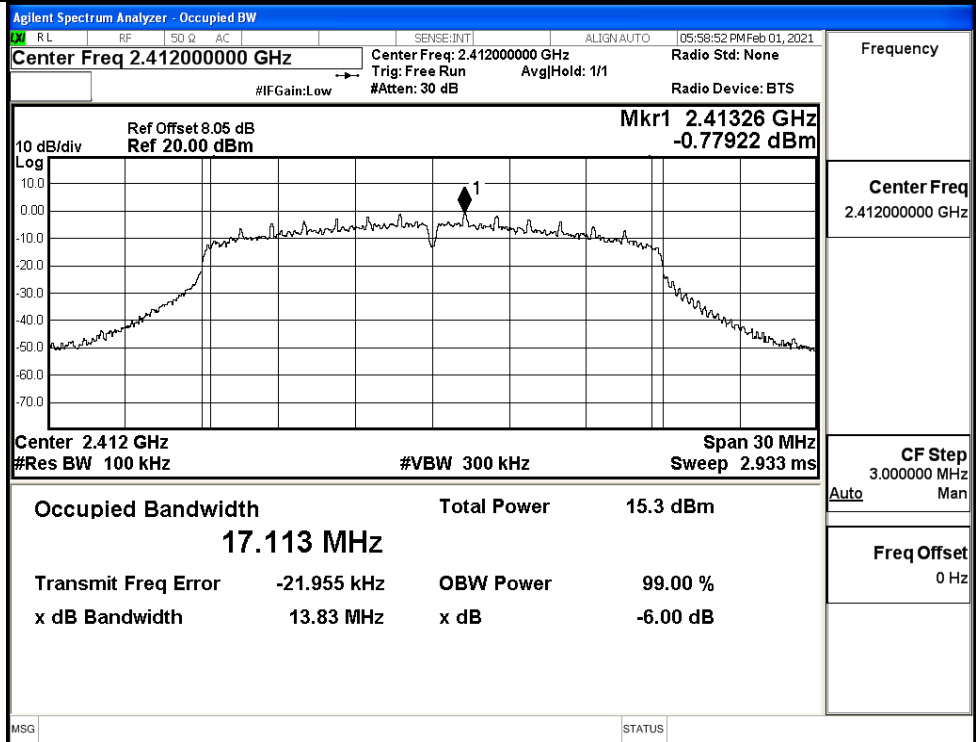


11G/HCH



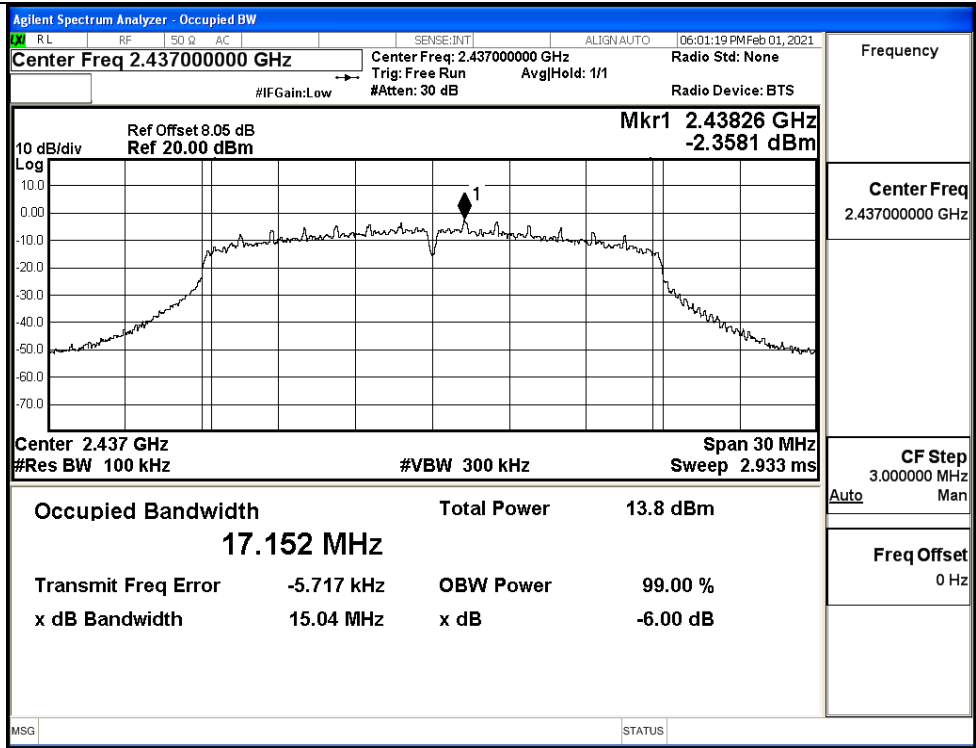
Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11N20SISO/LCH

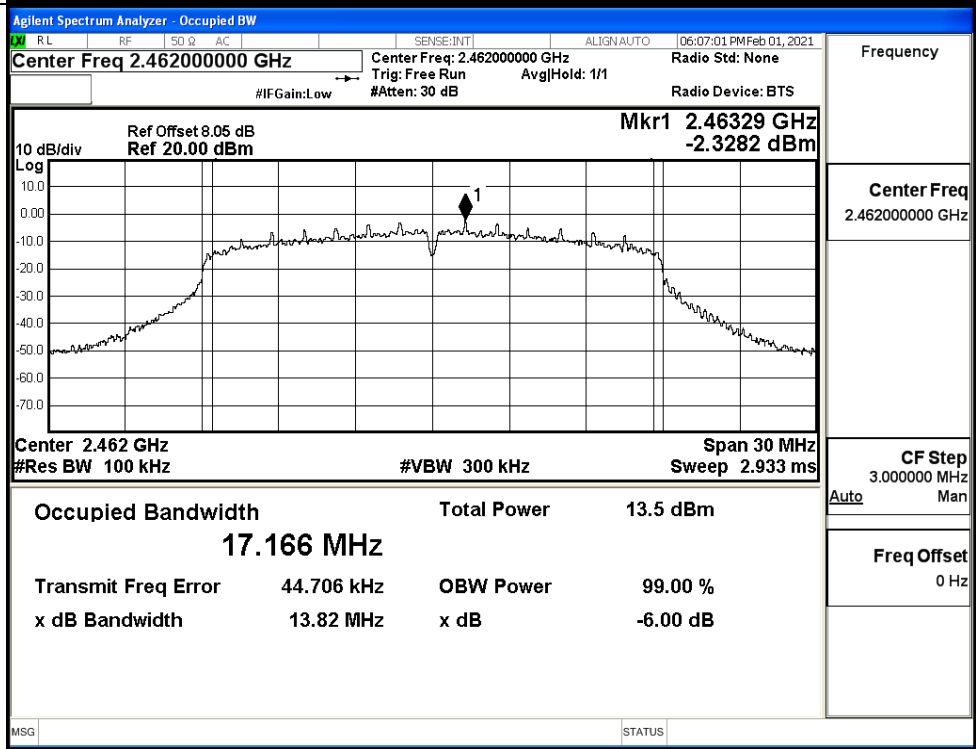


Frequency	2.41200000 GHz
Center Freq	2.41200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

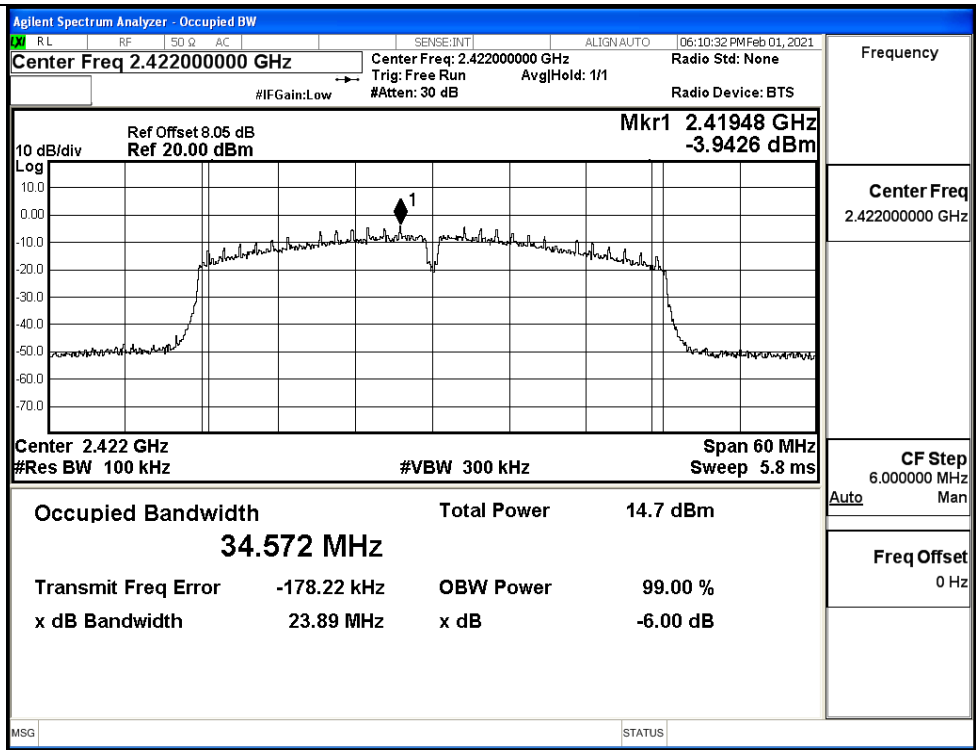
11N20SISO/MCH



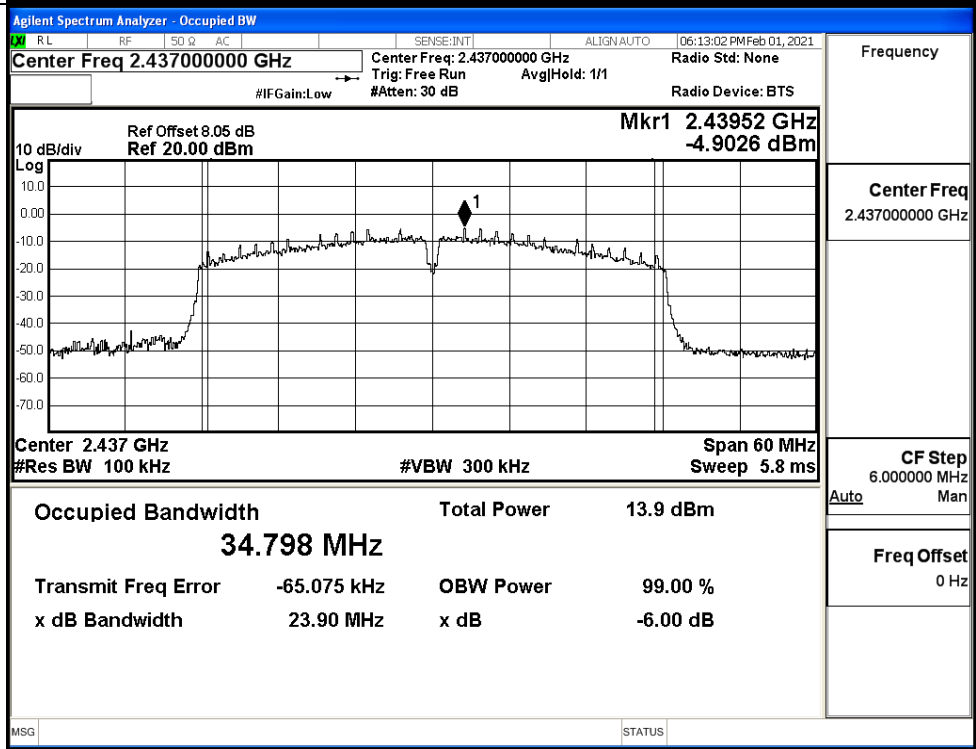
11N20SISO/HCH

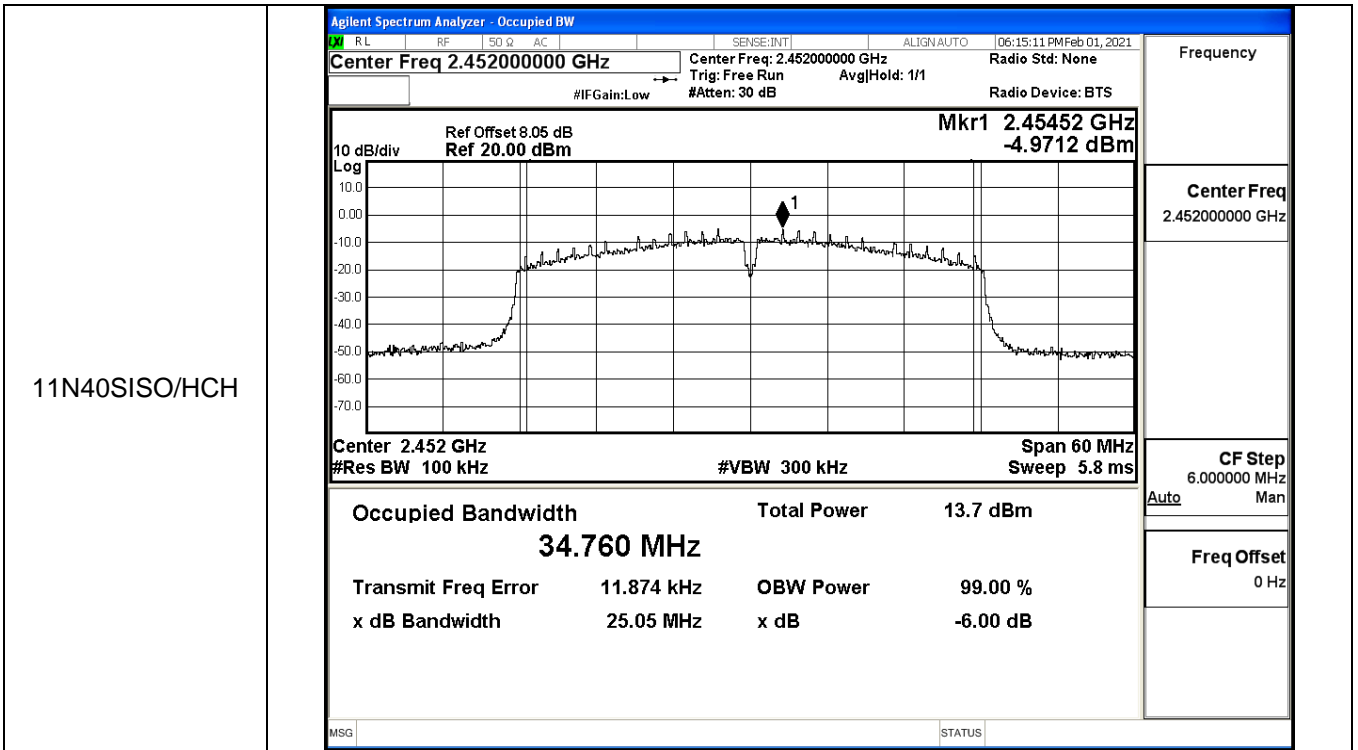


11N40SISO/LCH



11N40SISO/MCH



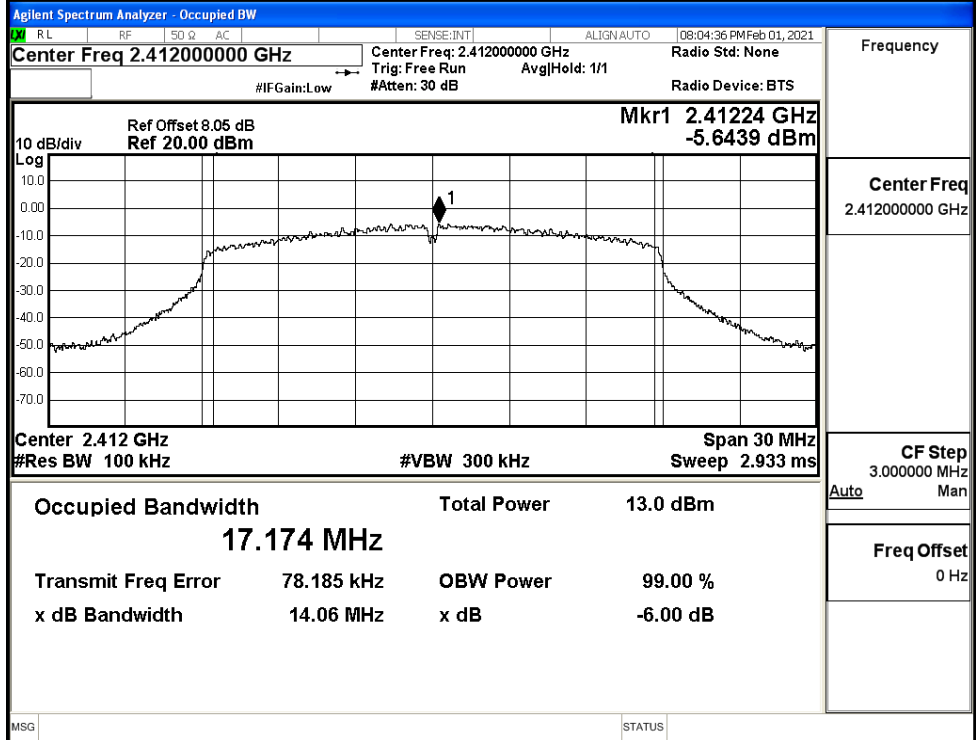


ANT 1

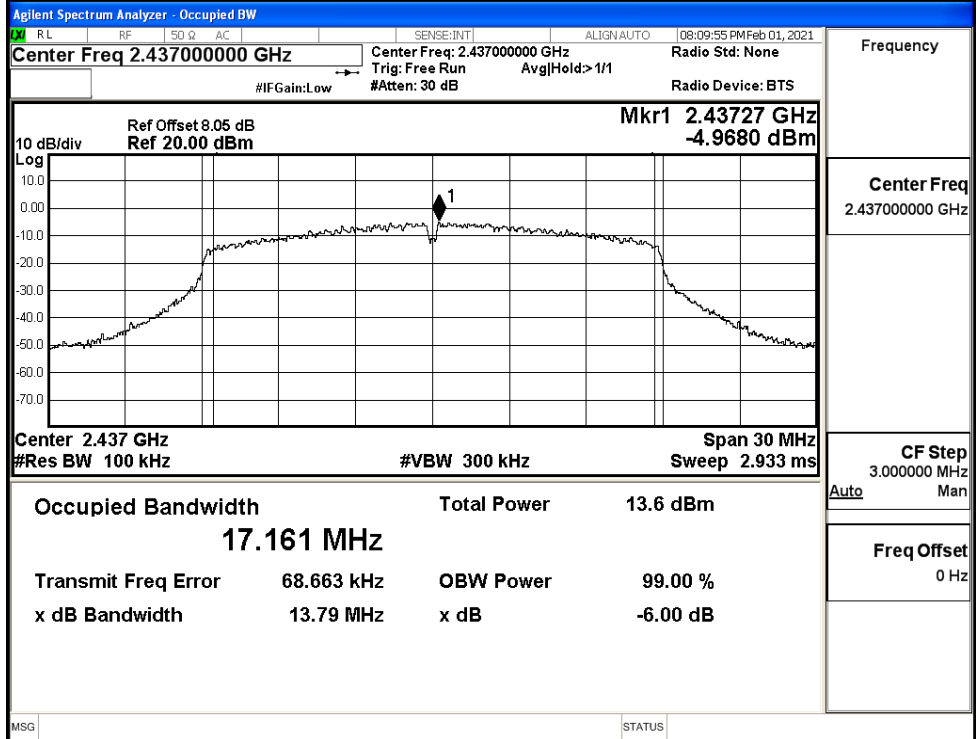
Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	14.06	≥0.5	PASS
	MCH	13.79	≥0.5	PASS
	HCH	13.74	≥0.5	PASS
11G	LCH	14.10	≥0.5	PASS
	MCH	14.06	≥0.5	PASS
	HCH	14.20	≥0.5	PASS
11N20SISO	LCH	14.02	≥0.5	PASS
	MCH	14.05	≥0.5	PASS
	HCH	13.39	≥0.5	PASS
11N40SISO	LCH	24.82	≥0.5	PASS
	MCH	22.79	≥0.5	PASS
	HCH	23.03	≥0.5	PASS

Test Graphs

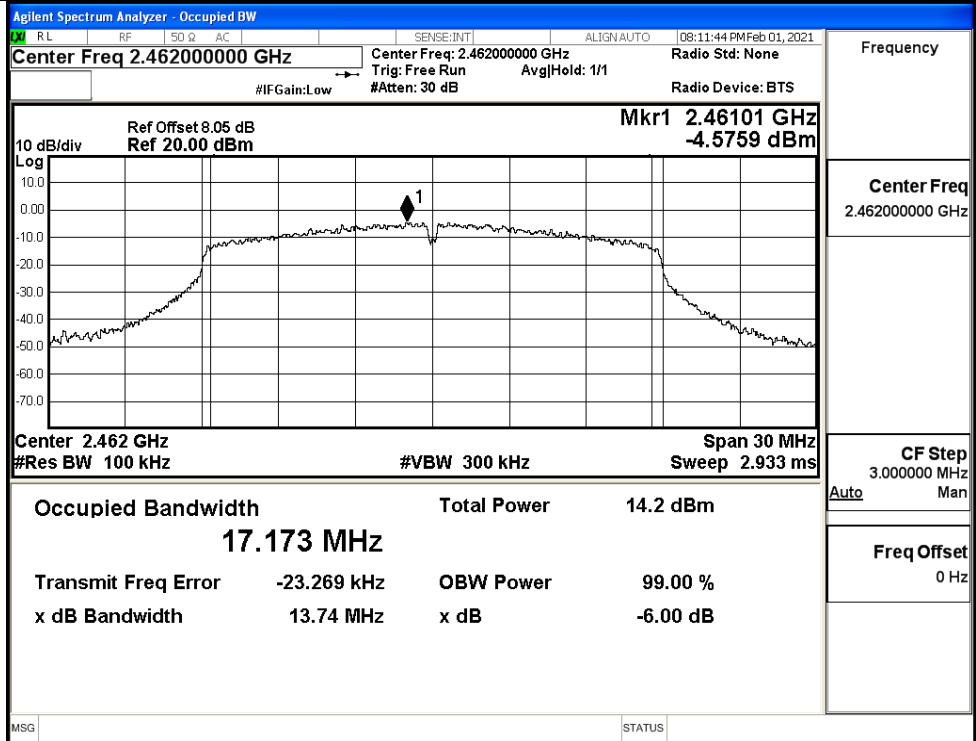
11B/LCH



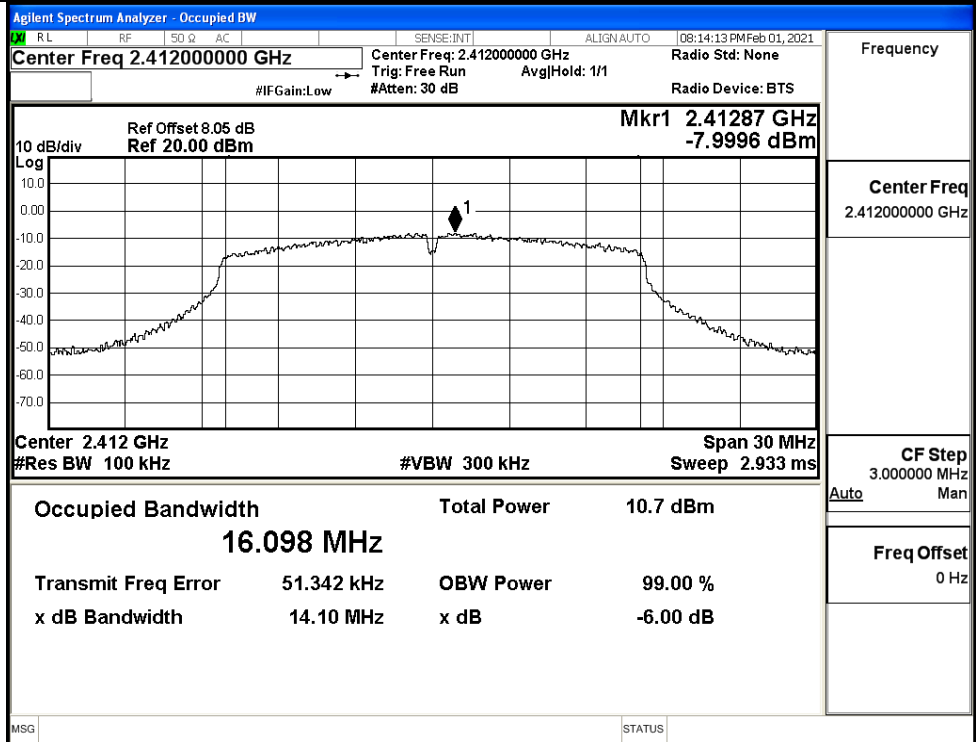
11B/MCH



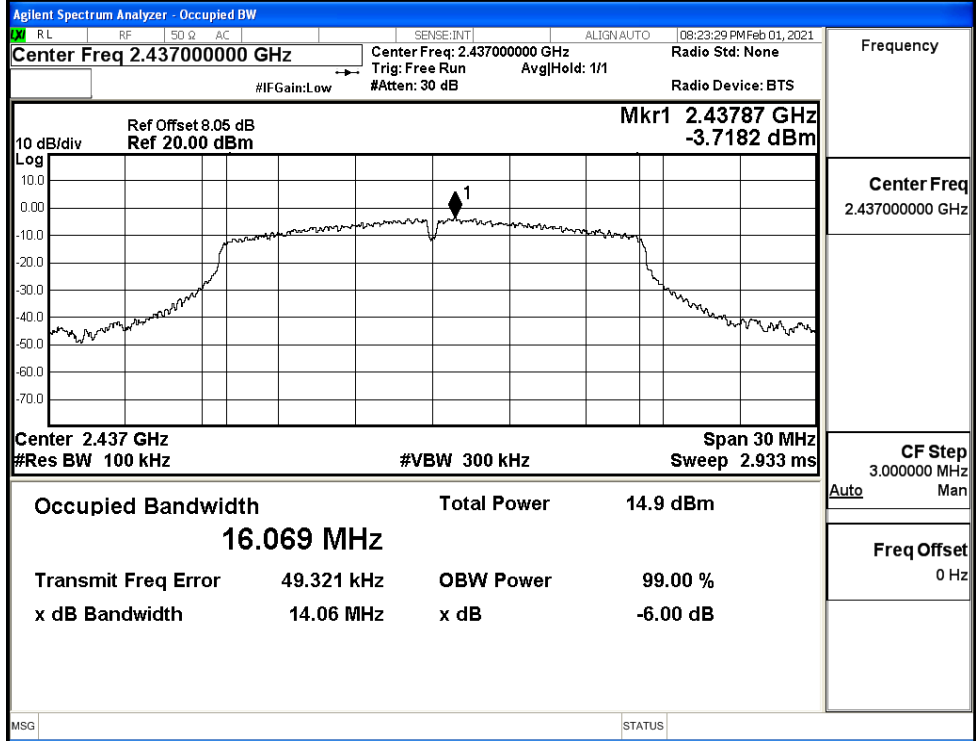
11B/HCH



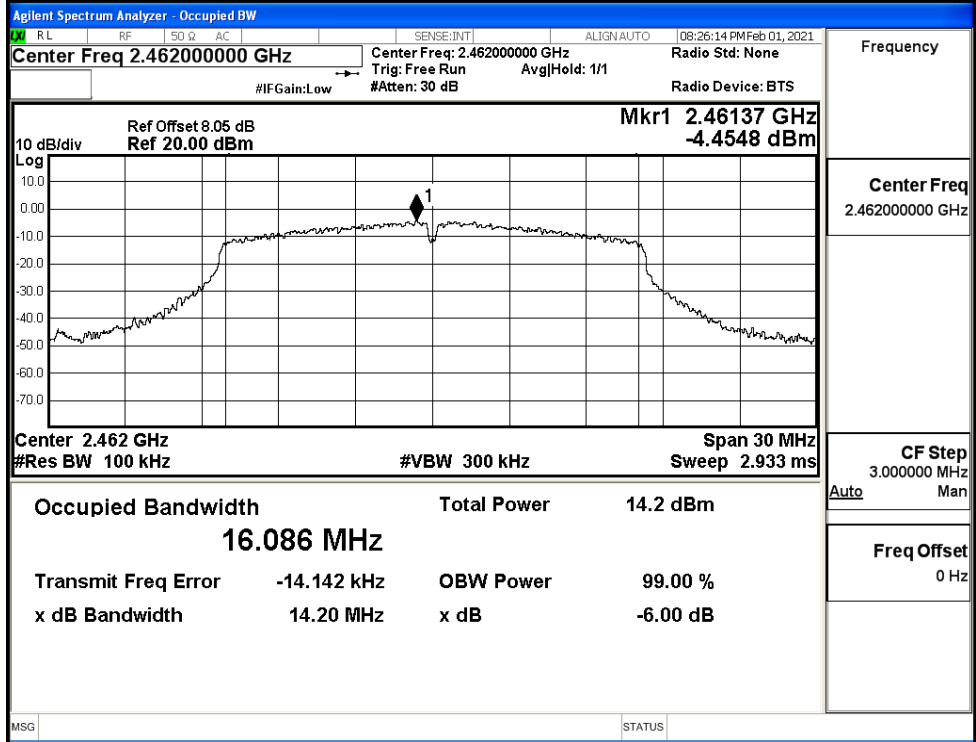
11G/LCH



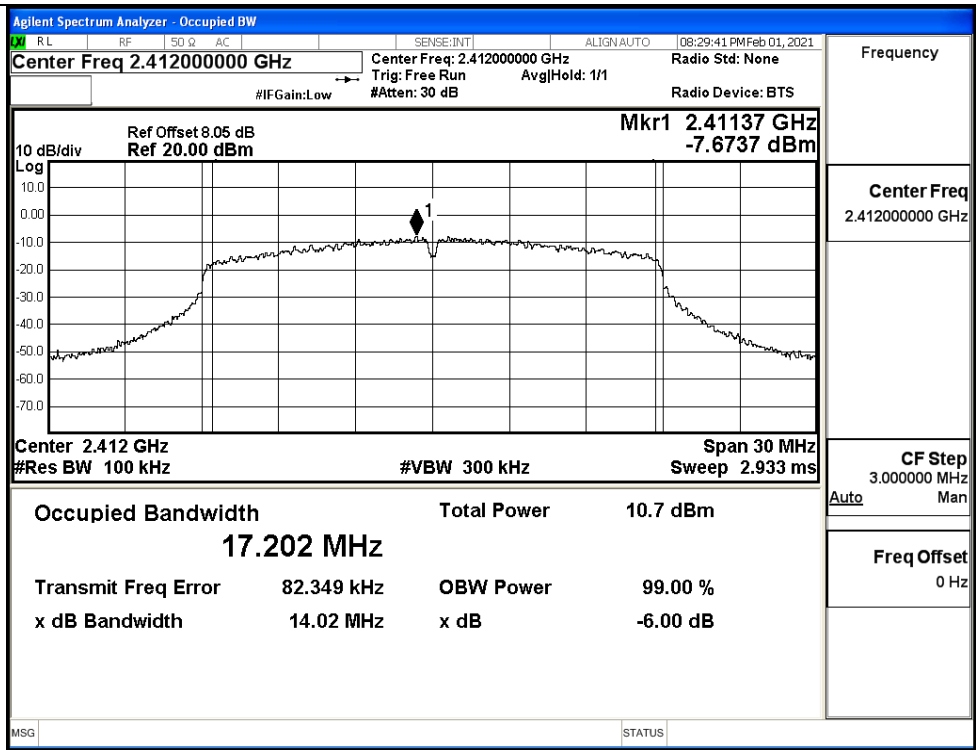
11G/MCH



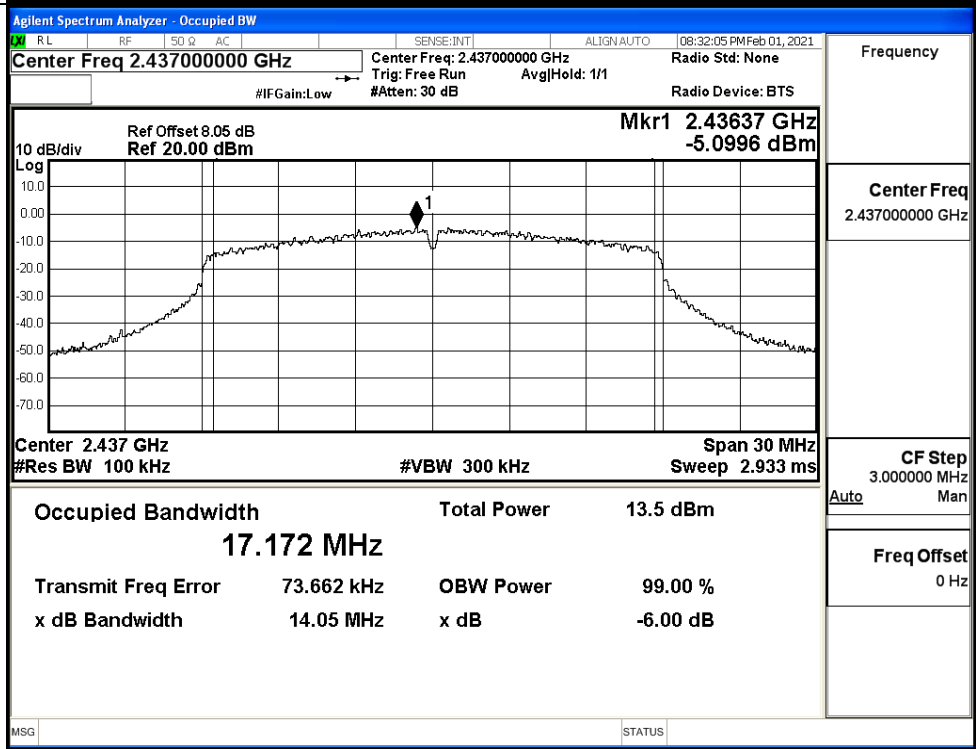
11G/HCH



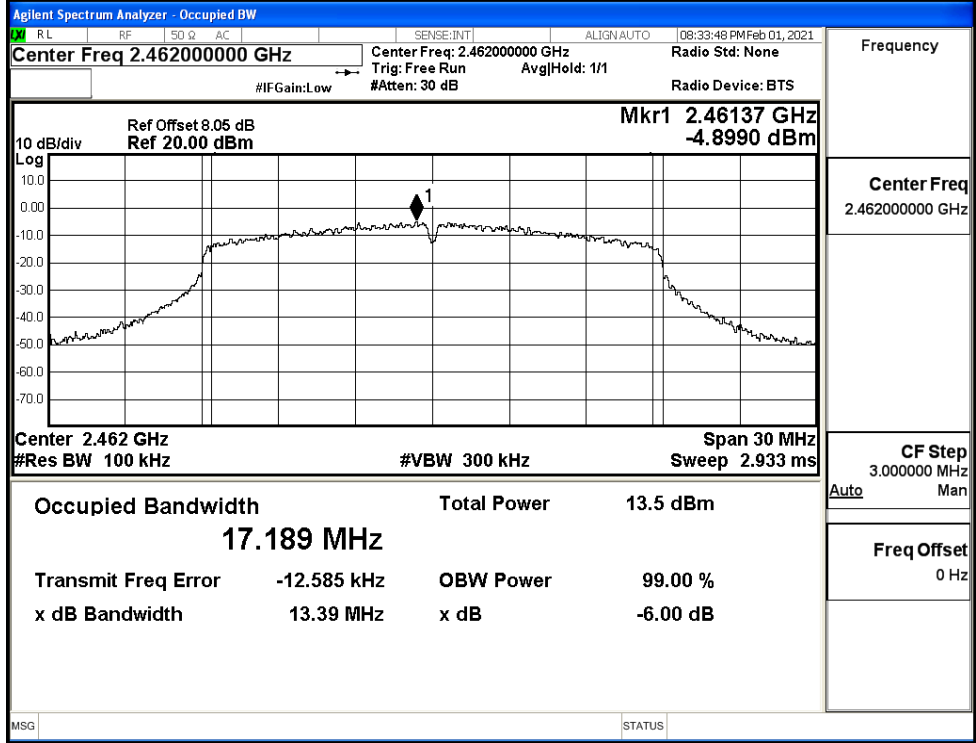
11N20SISO/LCH



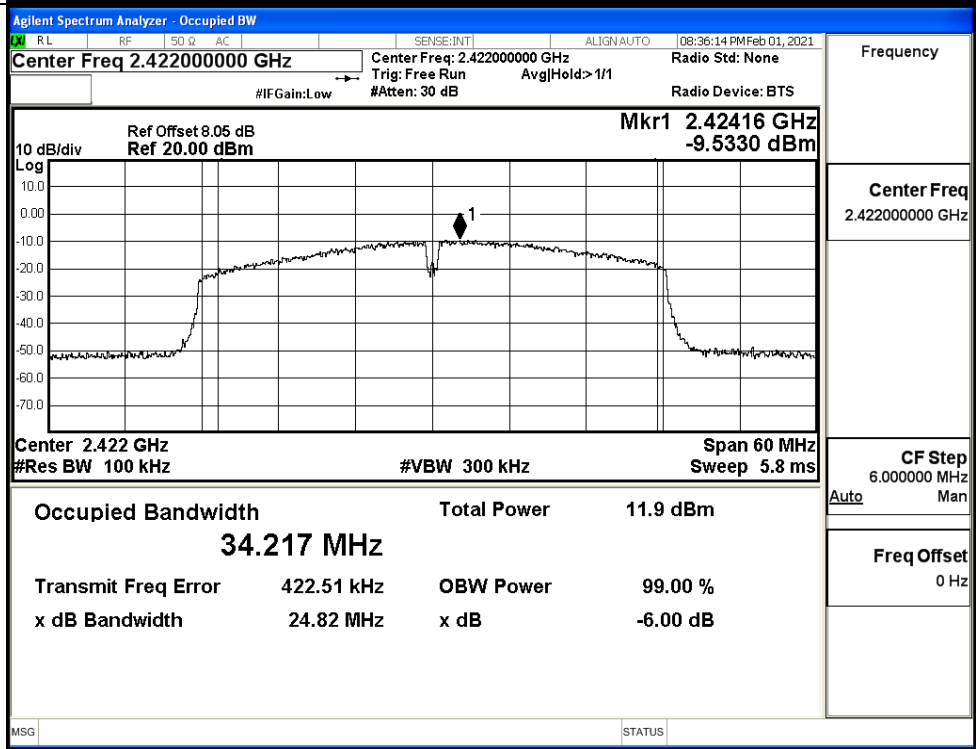
11N20SISO/MCH



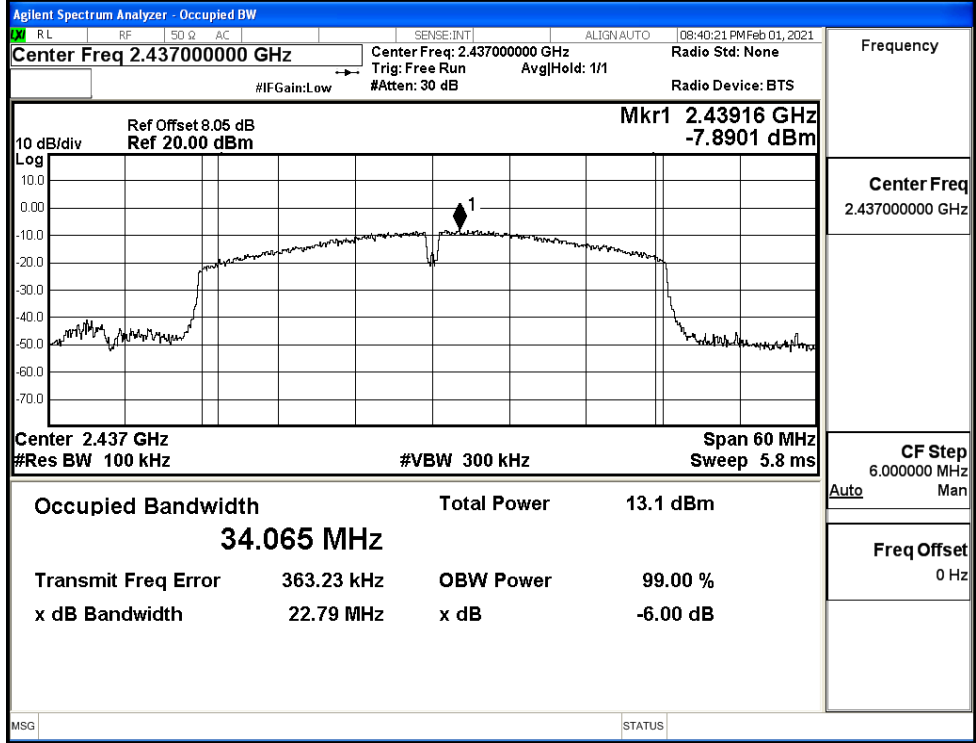
11N20SISO/HCH



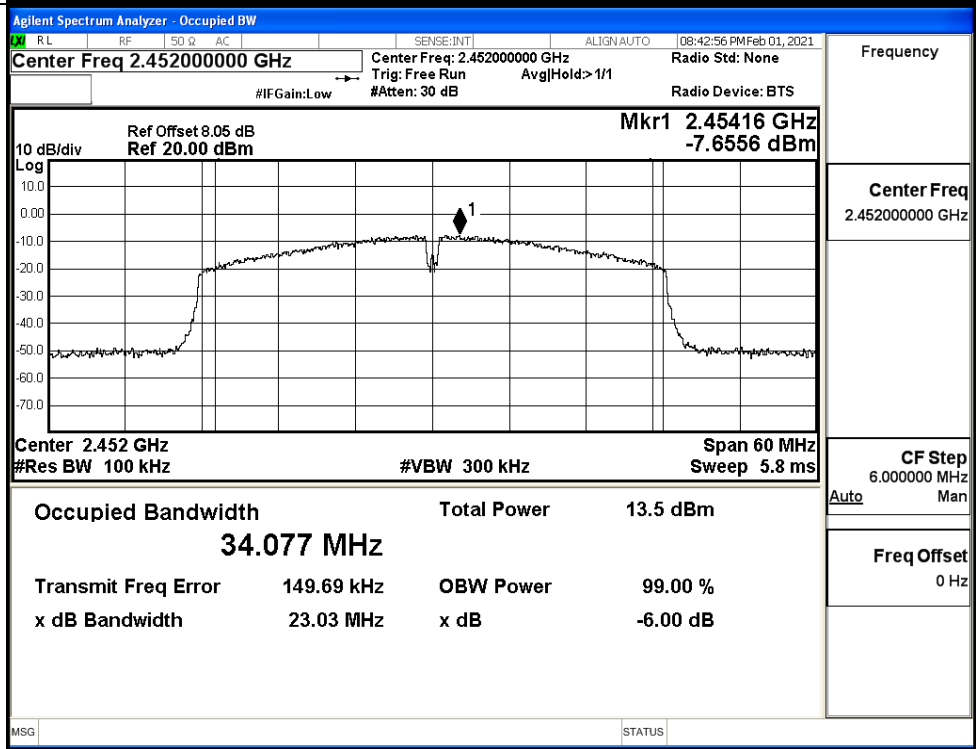
11N40SISO/LCH



11N40SISO/MCH



11N40SISO/HCH



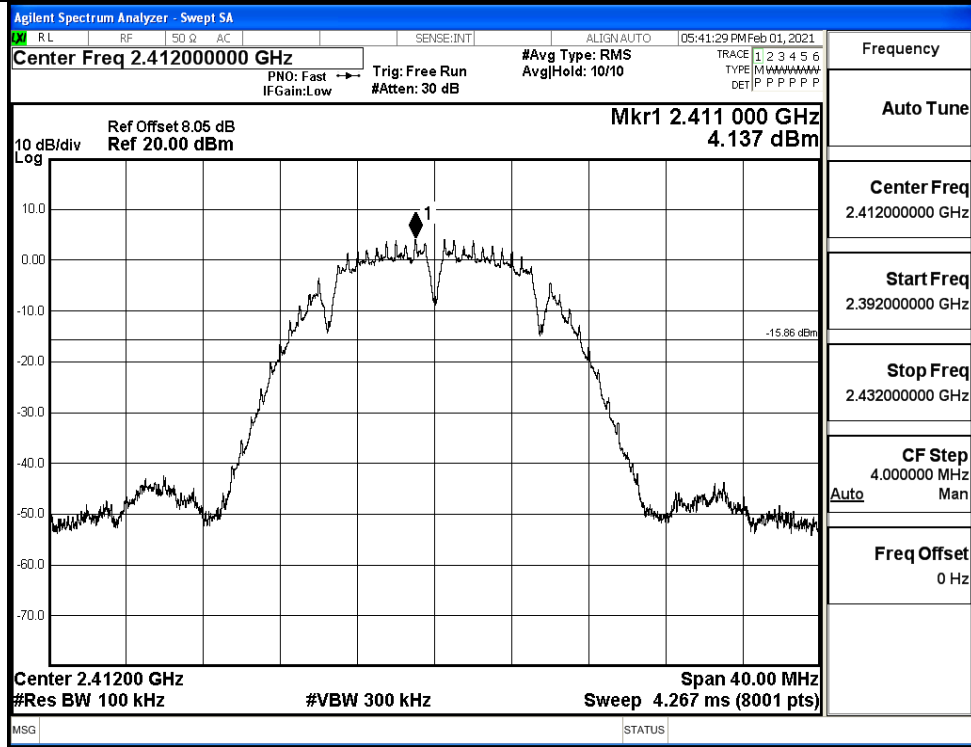
A.5 RF Conducted Spurious Emissions

ANT 0

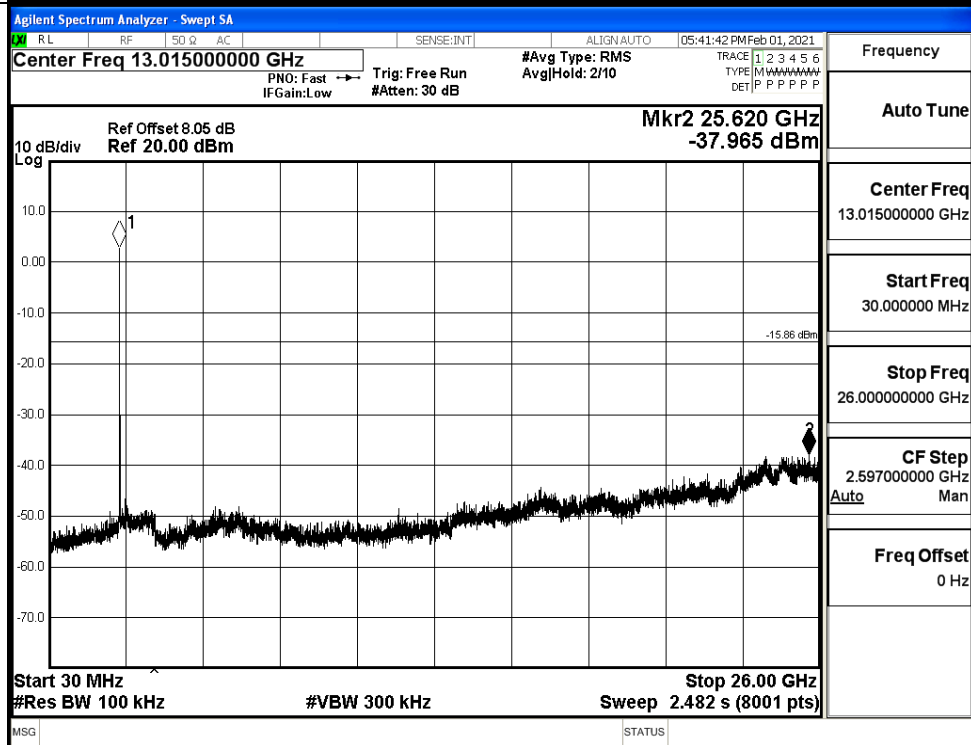
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.137	-37.965	-15.863	PASS
	MCH	1.871	-37.439	-18.129	PASS
	HCH	1.239	-36.428	-18.761	PASS
11G	LCH	-1.947	-37.569	-21.947	PASS
	MCH	-1.002	-37.209	-21.002	PASS
	HCH	-3.144	-37.106	-23.144	PASS
11N20 SISO	LCH	-0.861	-38.503	-20.861	PASS
	MCH	-2.248	-36.406	-22.248	PASS
	HCH	-3.025	-37.607	-23.025	PASS
11N40 SISO	LCH	-4.36	-37.894	-24.360	PASS
	MCH	-5.218	-38.045	-25.218	PASS
	HCH	-5.428	-36.694	-25.428	PASS

11B_LCH_Graphs

Pref/11B/LCH

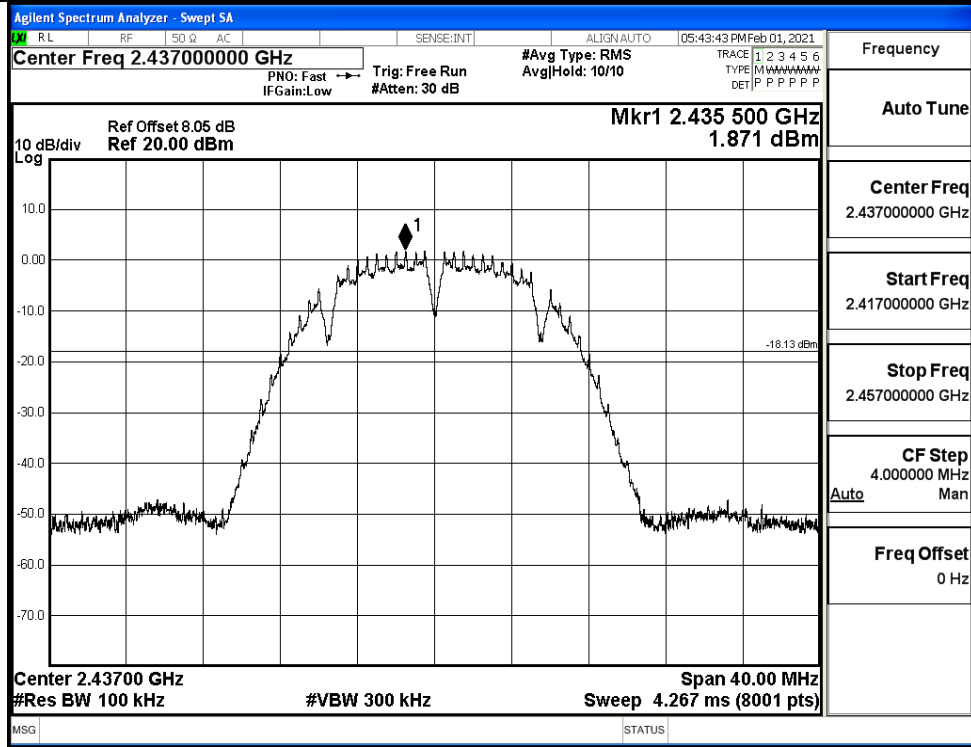


Puw/11B/LCH

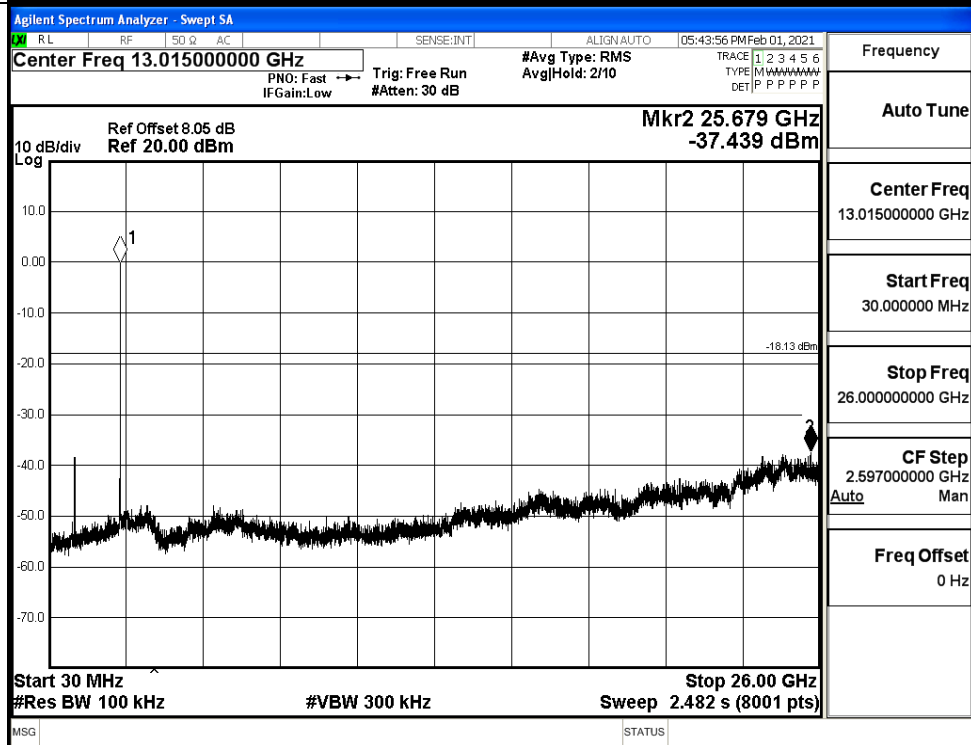


11B_MCH_Graphs

Pref/11B/MCH

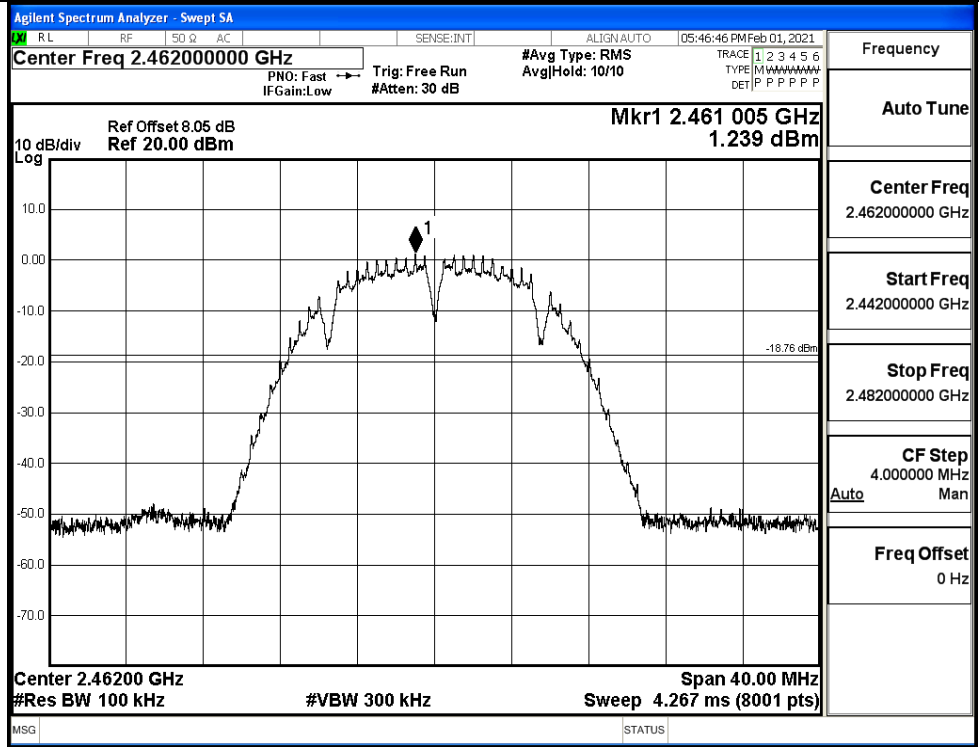


Puw/11B/MCH



11B_HCH_Graphs

Pref/11B/HCH

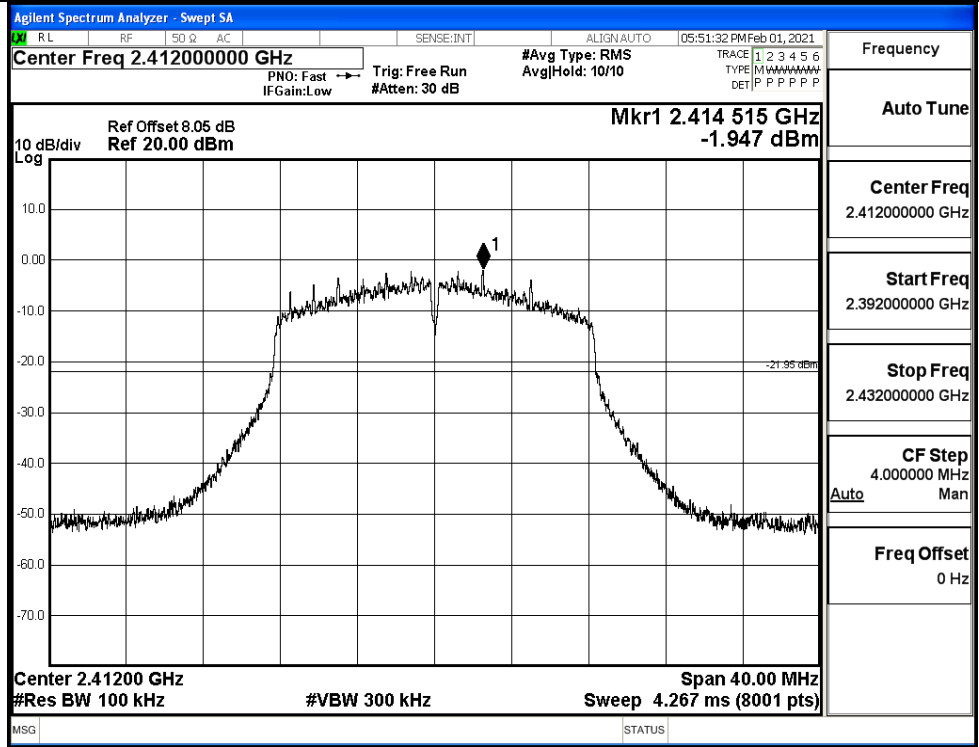


Puw/11B/HCH

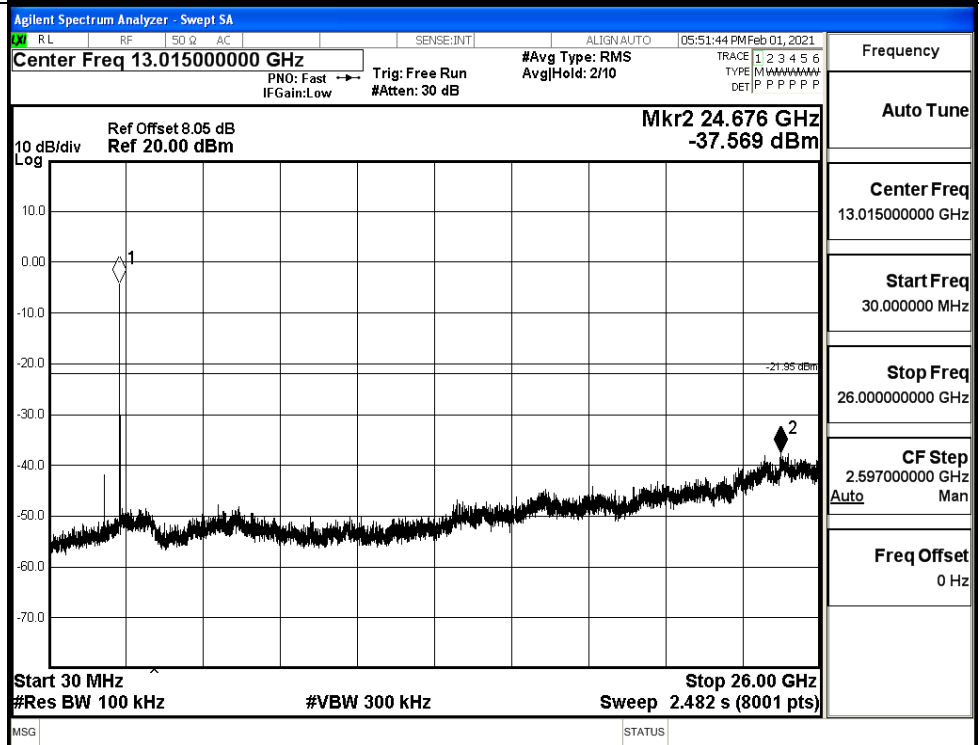


11G_LCH_Graphs

Pref/11G/LCH

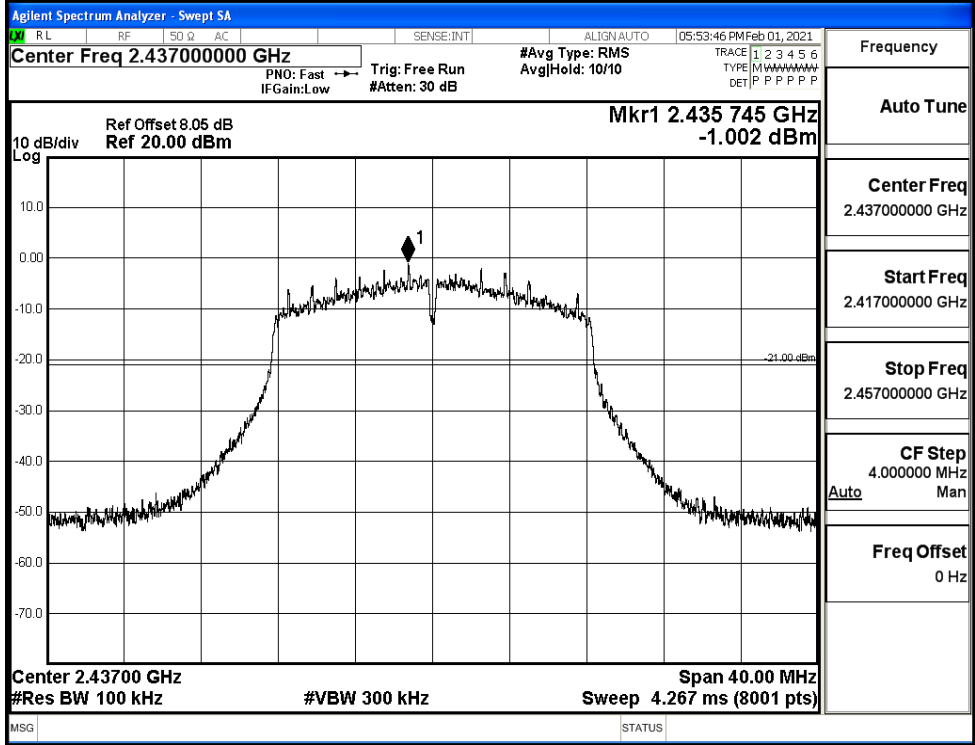


Puw/11G/LCH

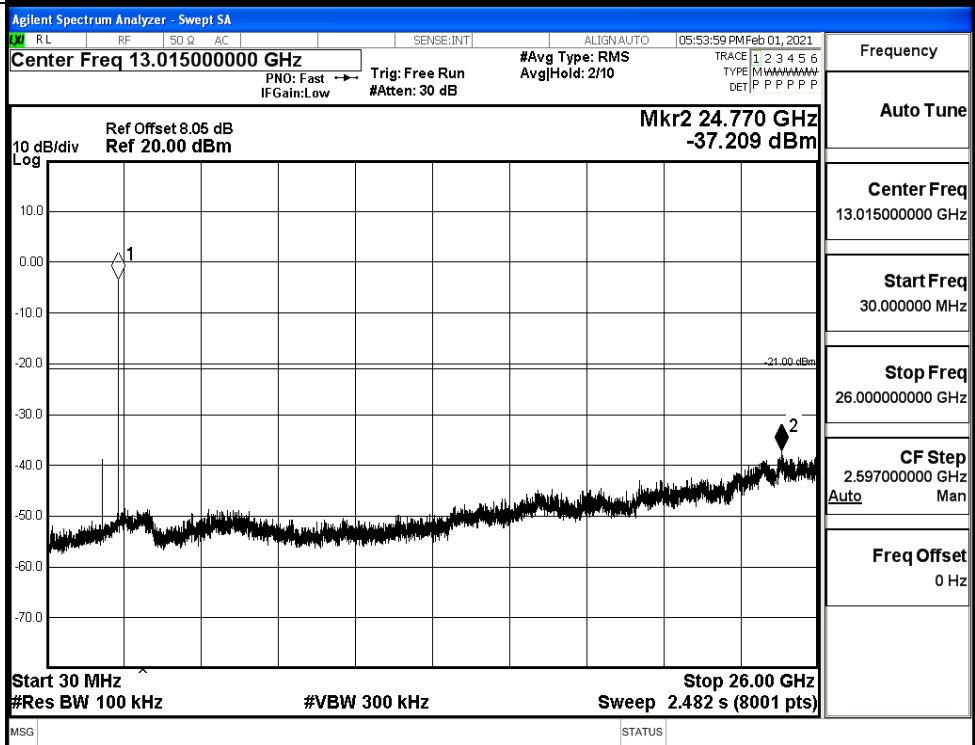


11G_MCH_Graphs

Pref/11G/MCH

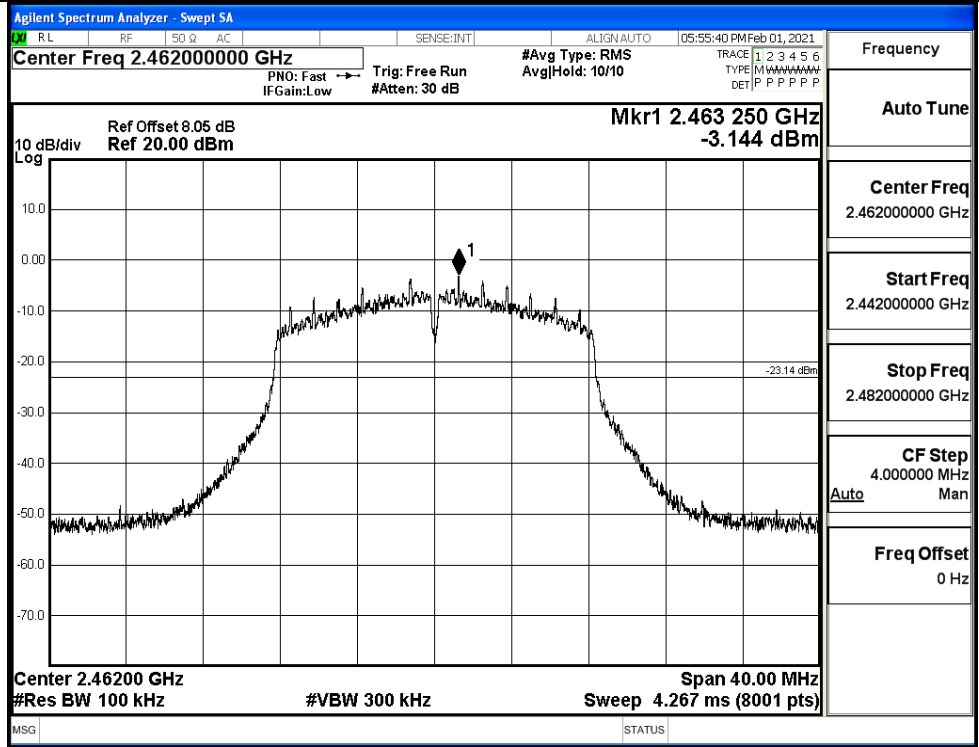


Puw/11G/MCH

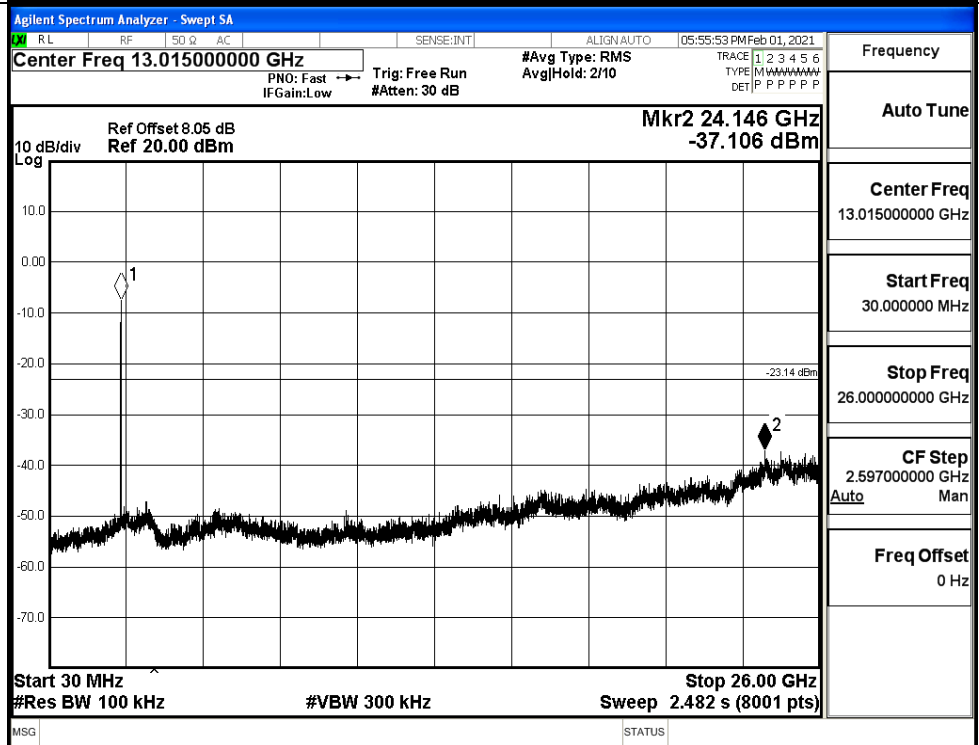


11G_HCH_Graphs

Pref/11G/HCH

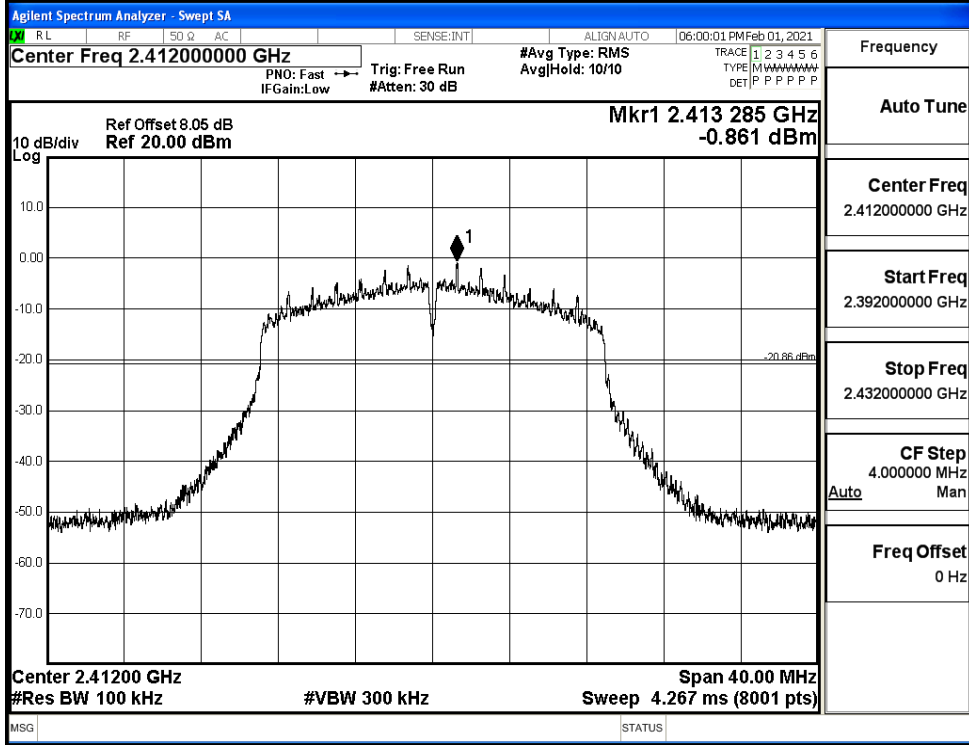


Puw/11G/HCH

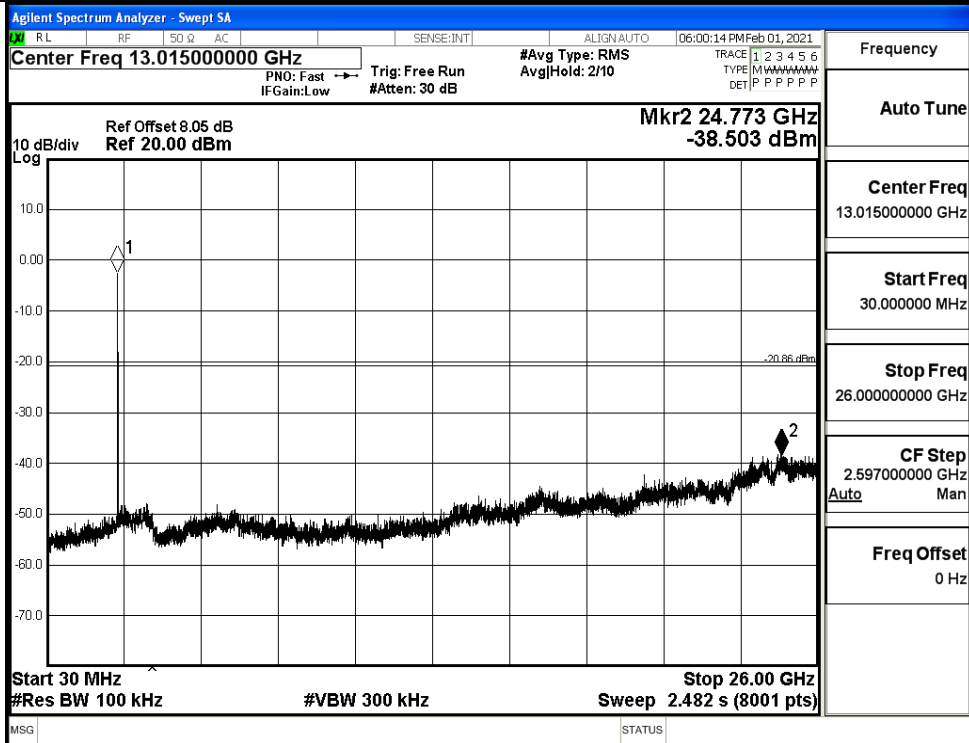


11N20SISO_LCH_Graphs

Pref/11N20SIS
O/LCH

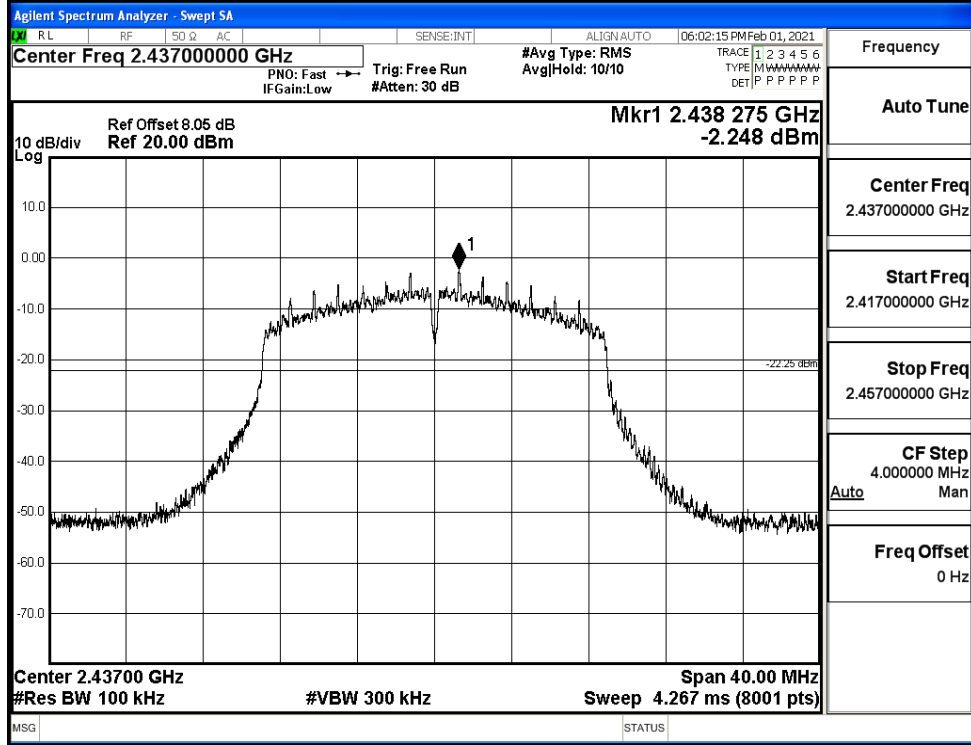


Puw/11N20
SISO/LCH

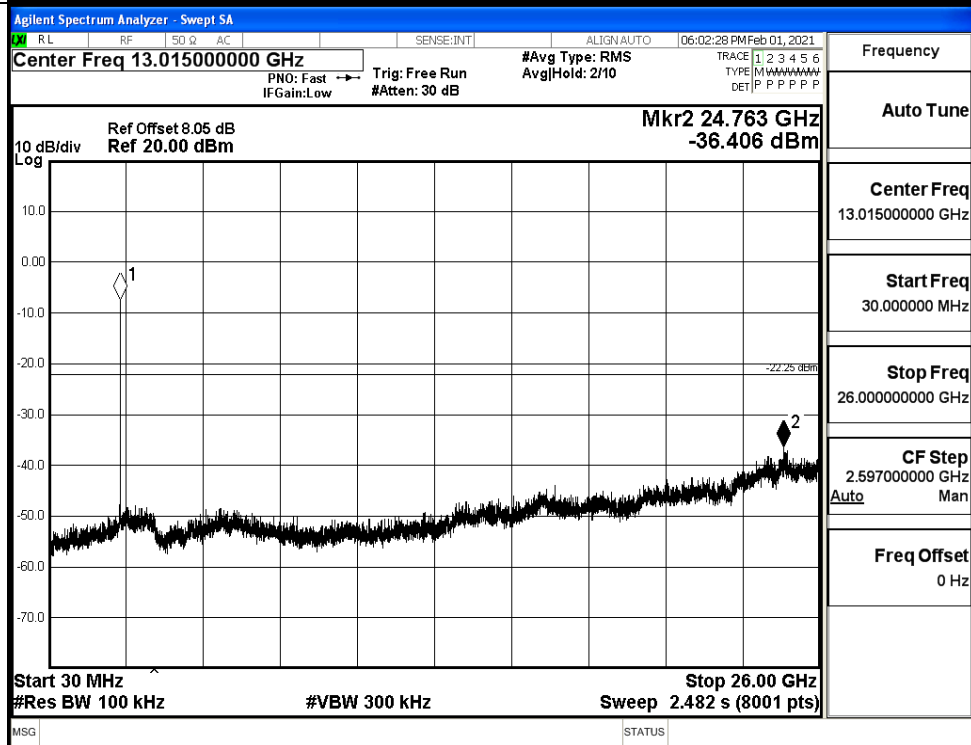


11N20SISO_MCH_Graphs

Pref/11N20
SISO/MCH

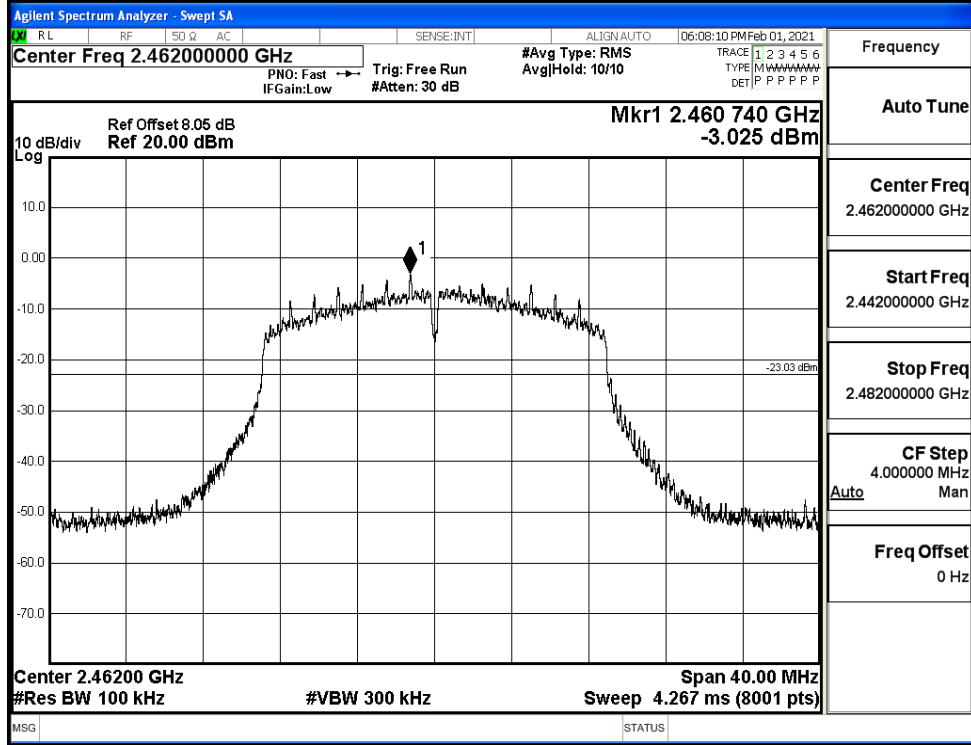


Puw/11N20
SISO/MCH

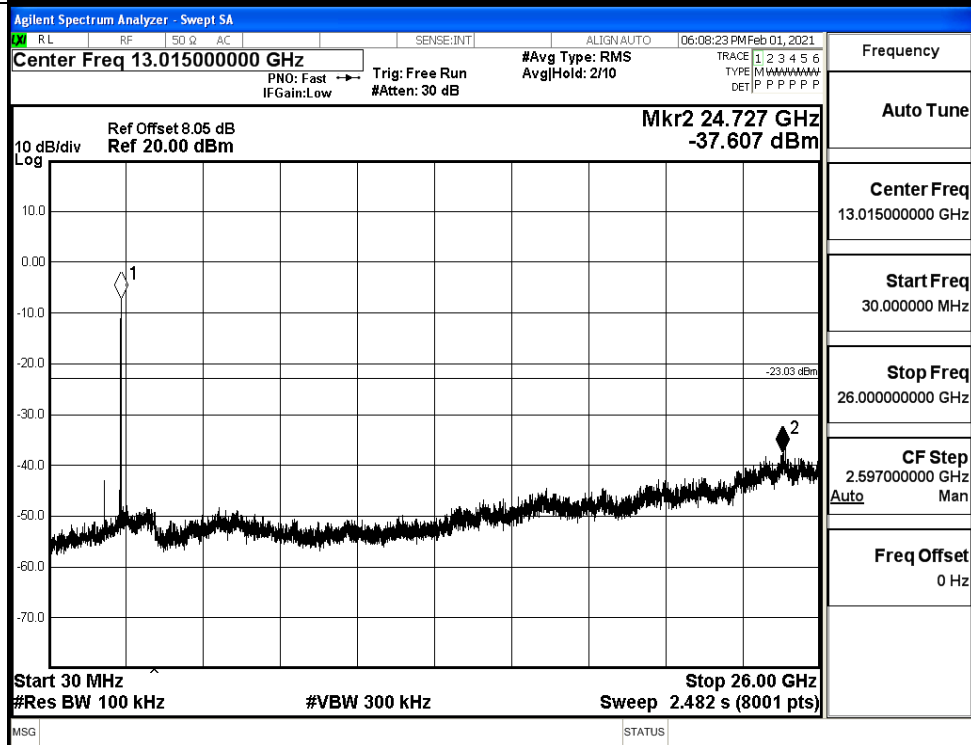


11N20SISO_HCH_Graphs

Pref/11N20
SISO/HCH

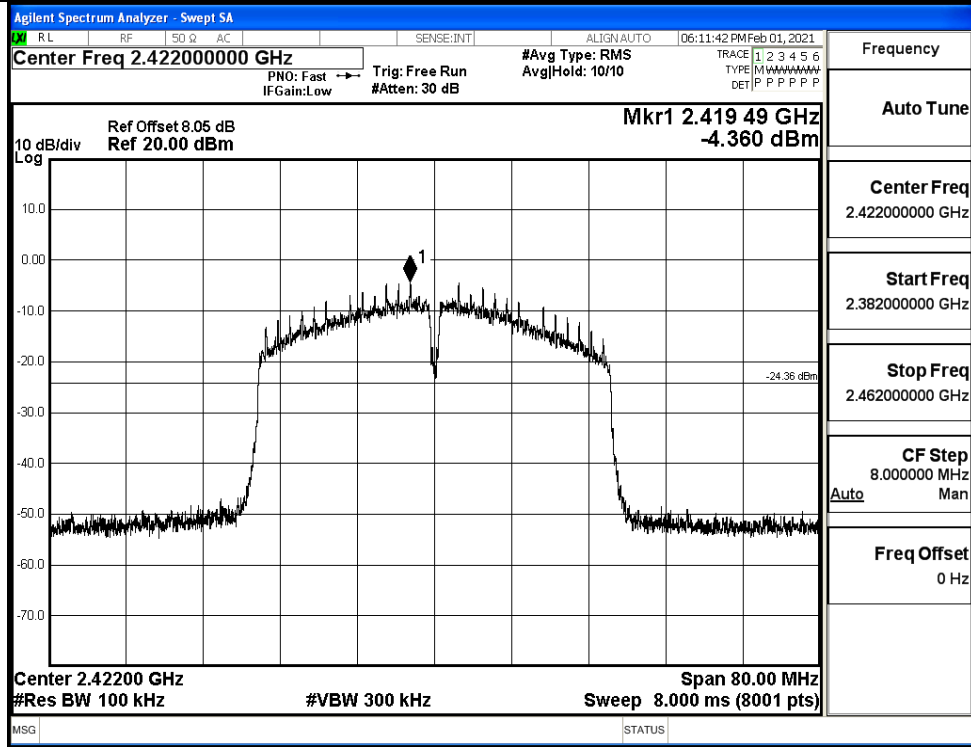


Puw/11N20
SISO/HCH

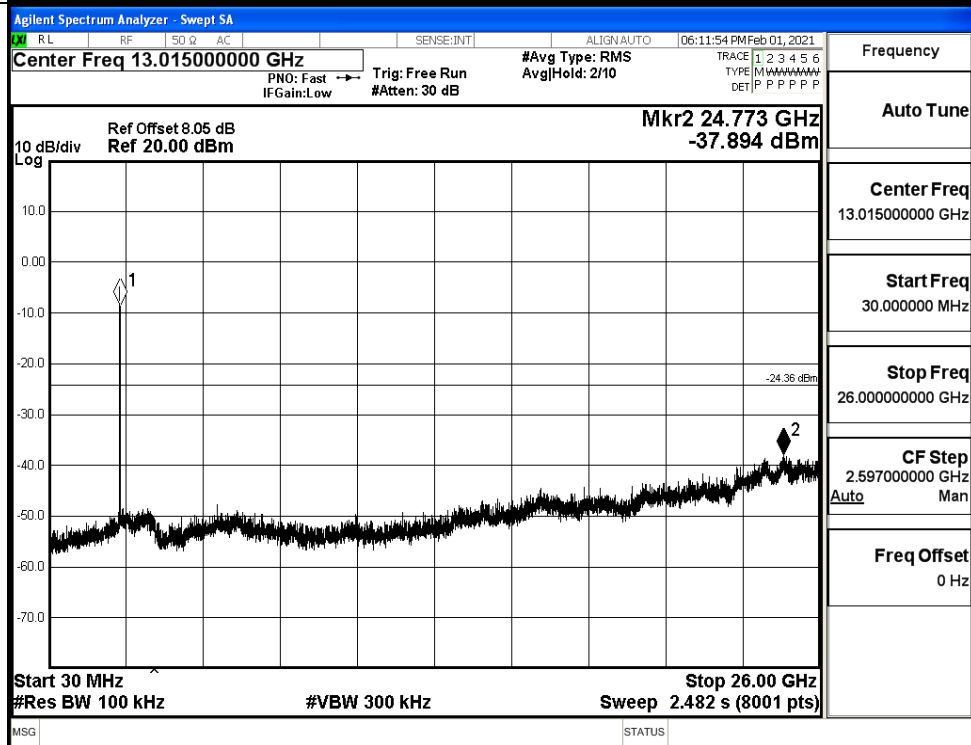


11N40SISO_LCH_Graphs

Pref/11N40
SISO/LCH

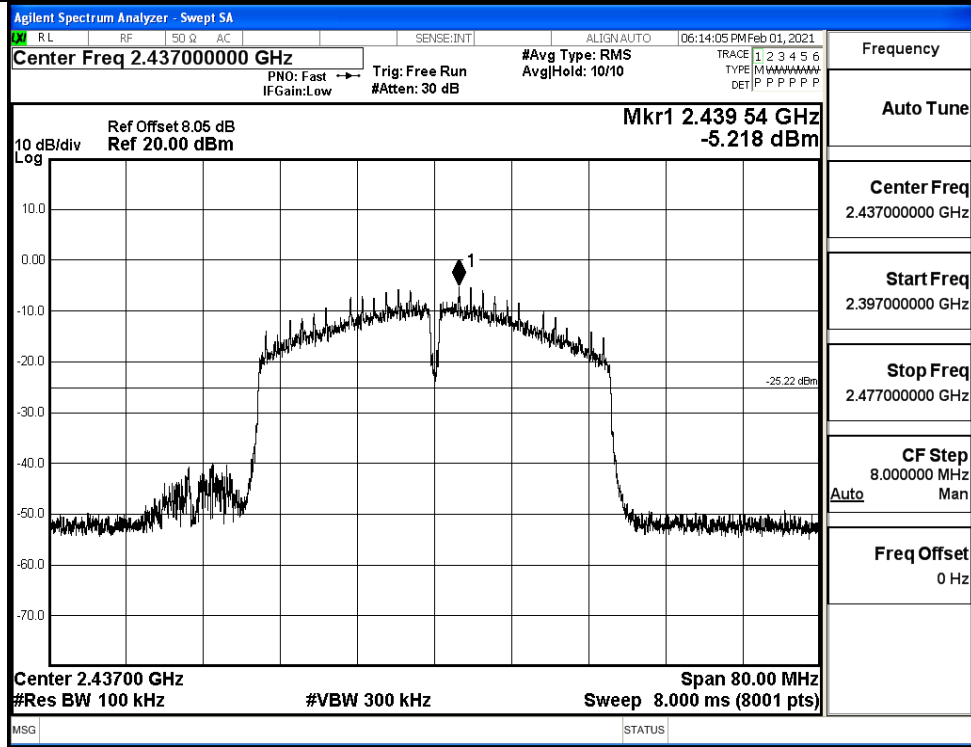


Puw/11N40
SISO/LCH

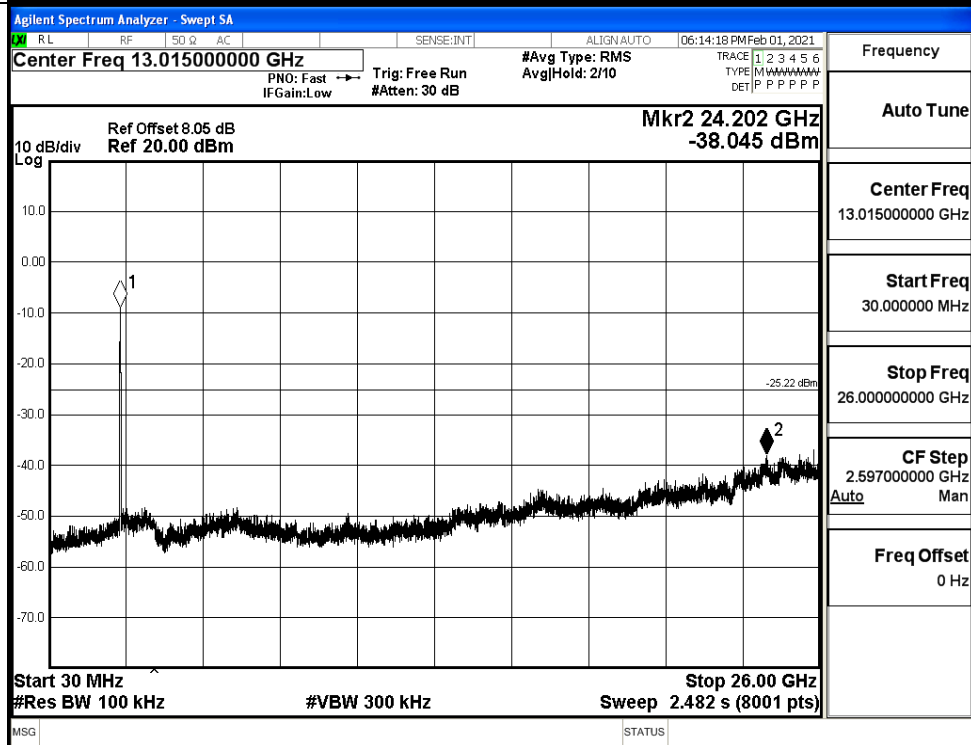


11N40SISO_MCH_Graphs

Pref/11N40
SISO/MCH

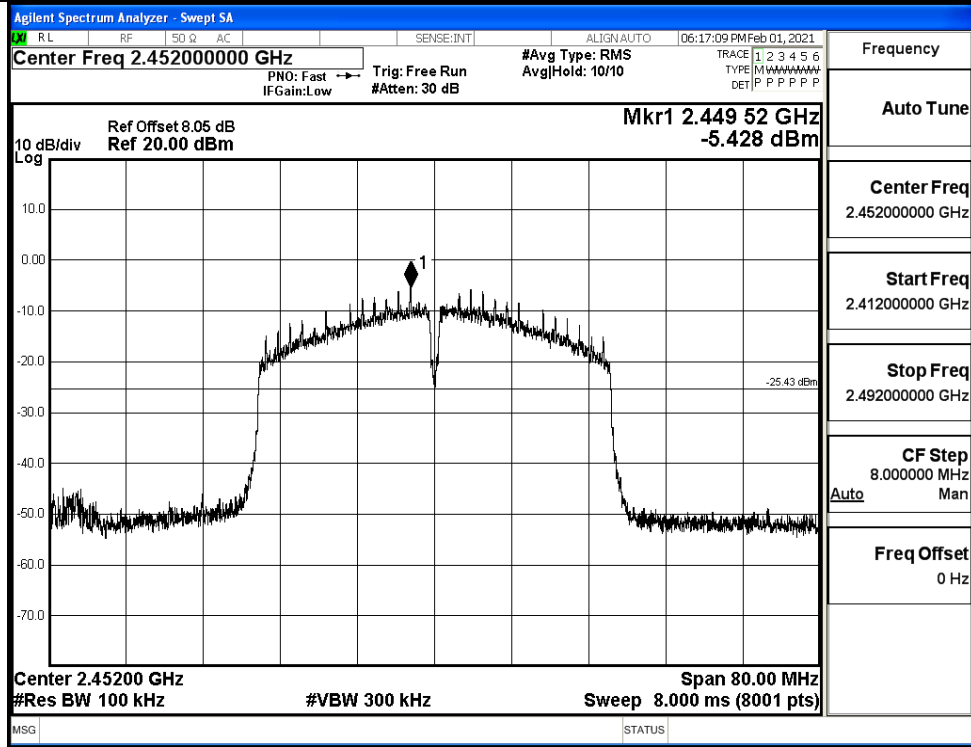


Puw/11N40
SISO/MCH

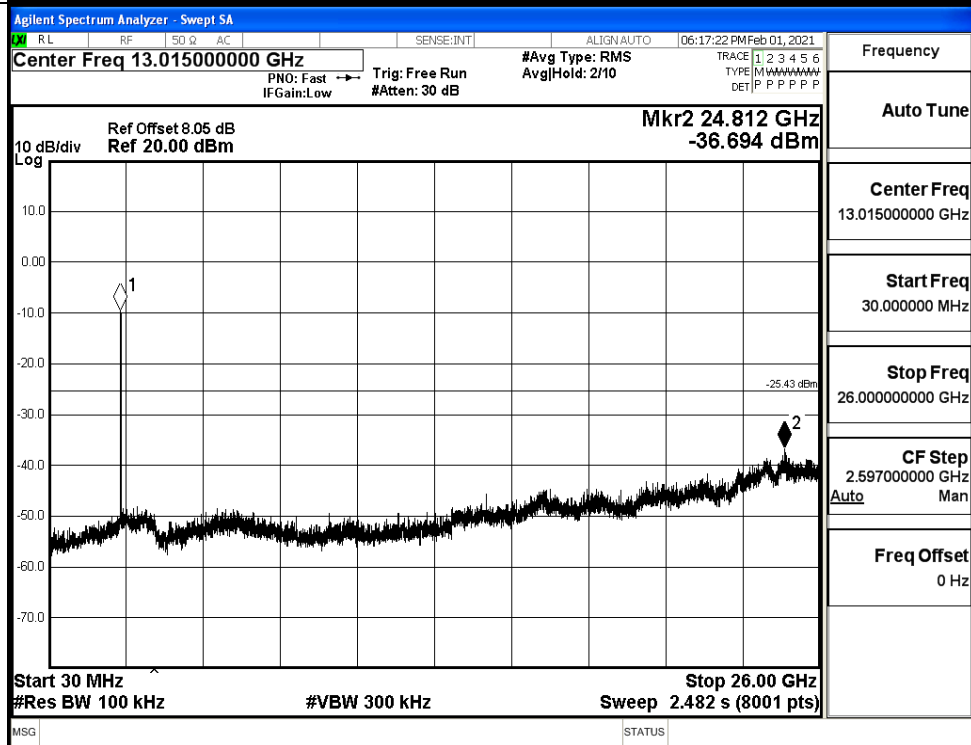


11N40SISO_HCH_Graphs

Pref/11N40
SISO/HCH



Puw/11N40
SISO/HCH

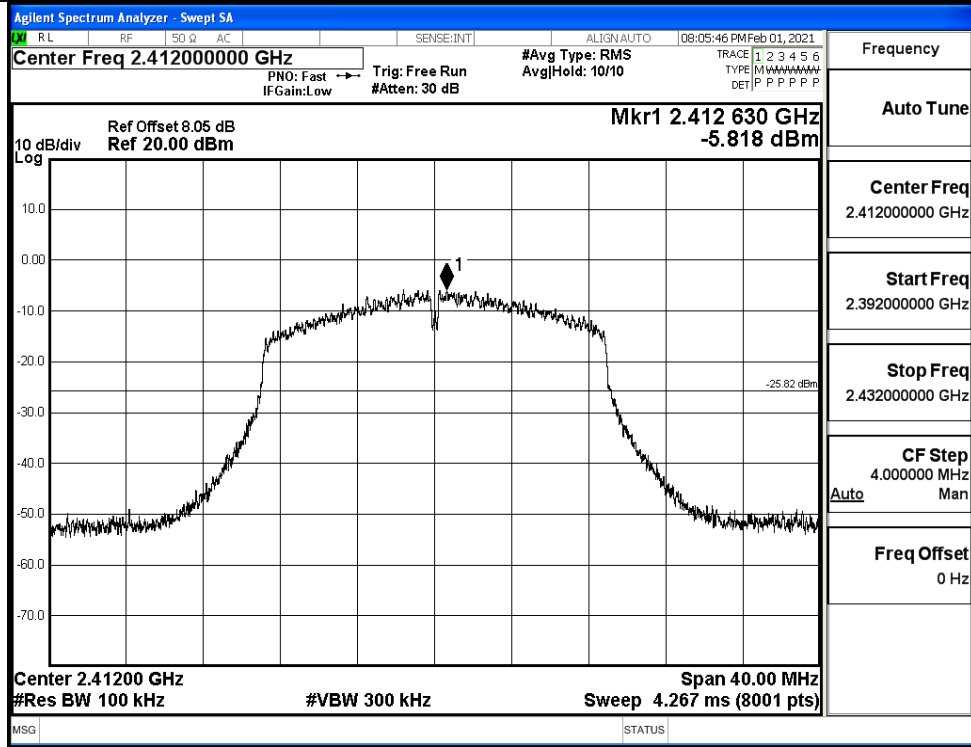


ANT 1

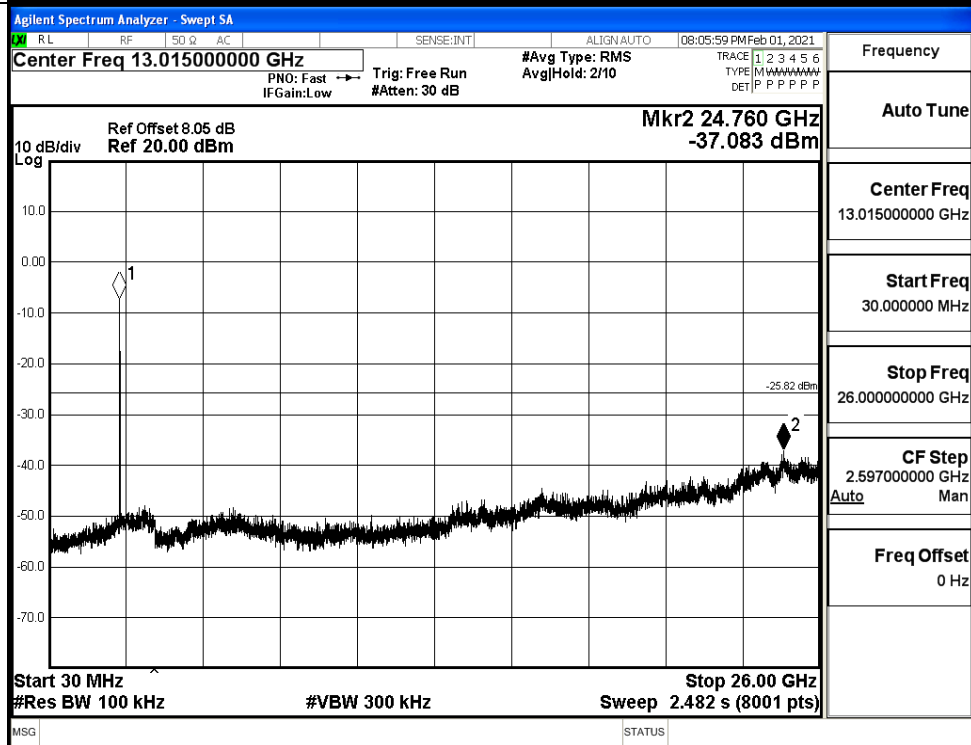
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-5.818	-37.083	-25.818	PASS
	MCH	-5.206	-38.153	-25.206	PASS
	HCH	-4.674	-38.029	-24.674	PASS
11G	LCH	-8.143	-38.504	-28.143	PASS
	MCH	-4.017	-38.179	-24.017	PASS
	HCH	-4.656	-37.782	-24.656	PASS
11N20 SISO	LCH	-7.734	-37.899	-27.734	PASS
	MCH	-5.139	-38.127	-25.139	PASS
	HCH	-5.008	-38.122	-25.008	PASS
11N40 SISO	LCH	-10.139	-36.862	-30.139	PASS
	MCH	-8.266	-37.949	-28.266	PASS
	HCH	-7.762	-37.746	-27.762	PASS

11B_LCH_Graphs

Pref/11B/LCH

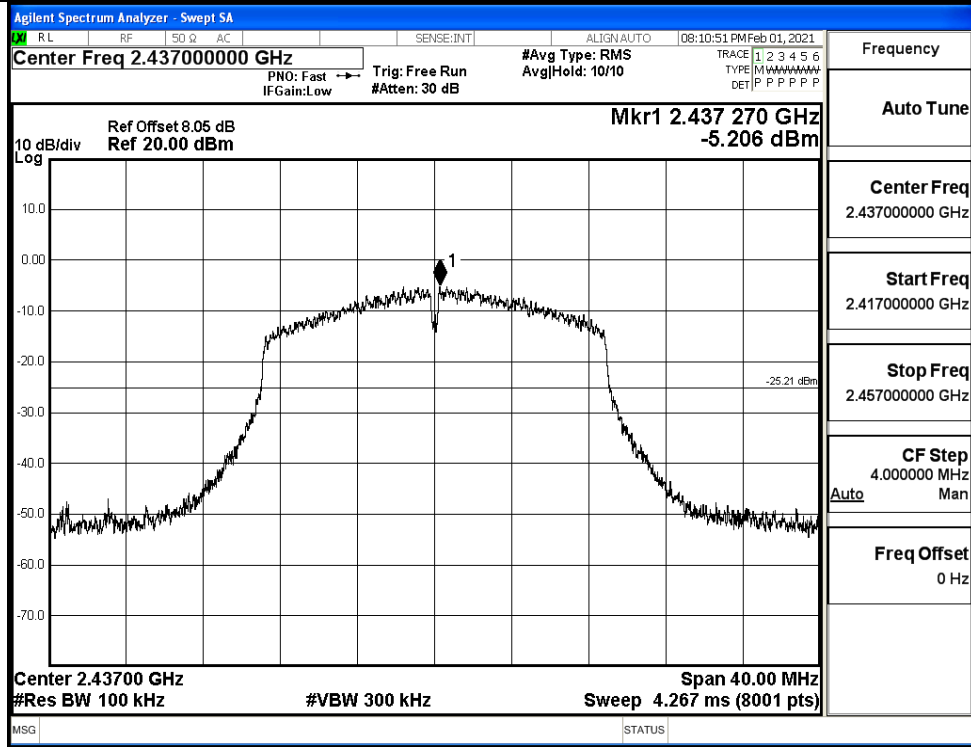


Puw/11B/LCH

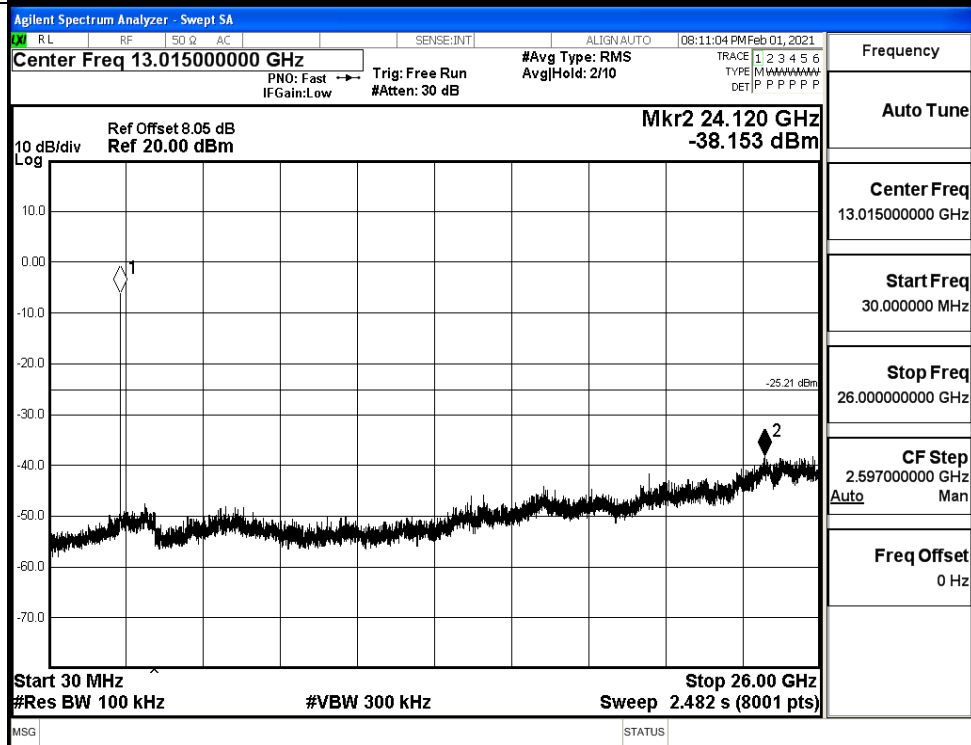


11B_MCH_Graphs

Pref/11B/MCH

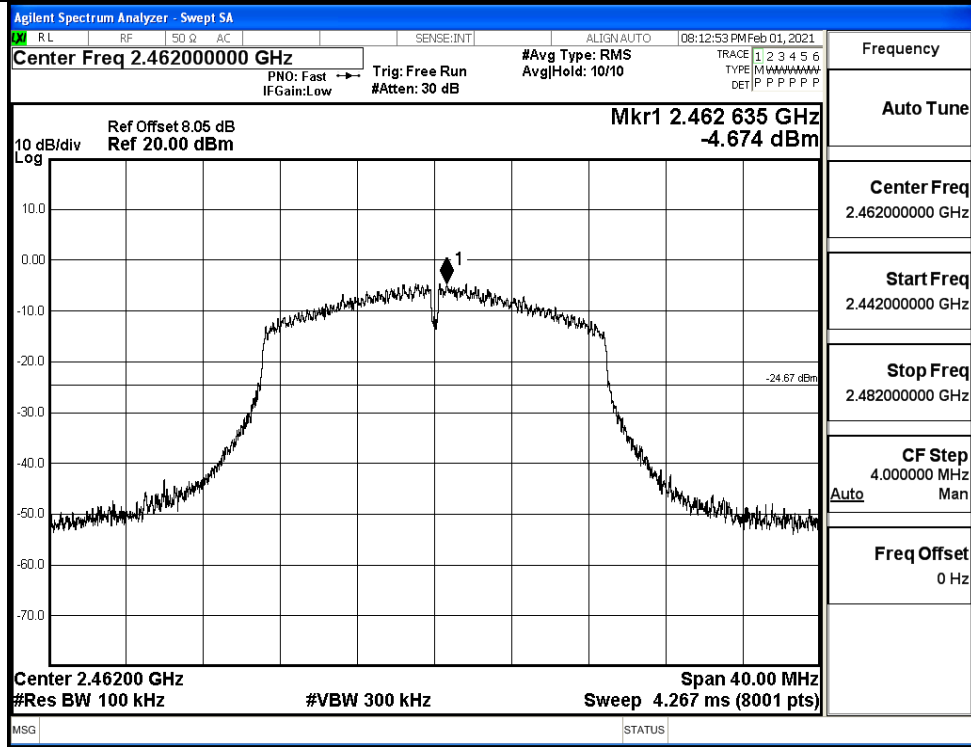


Puw/11B/MCH

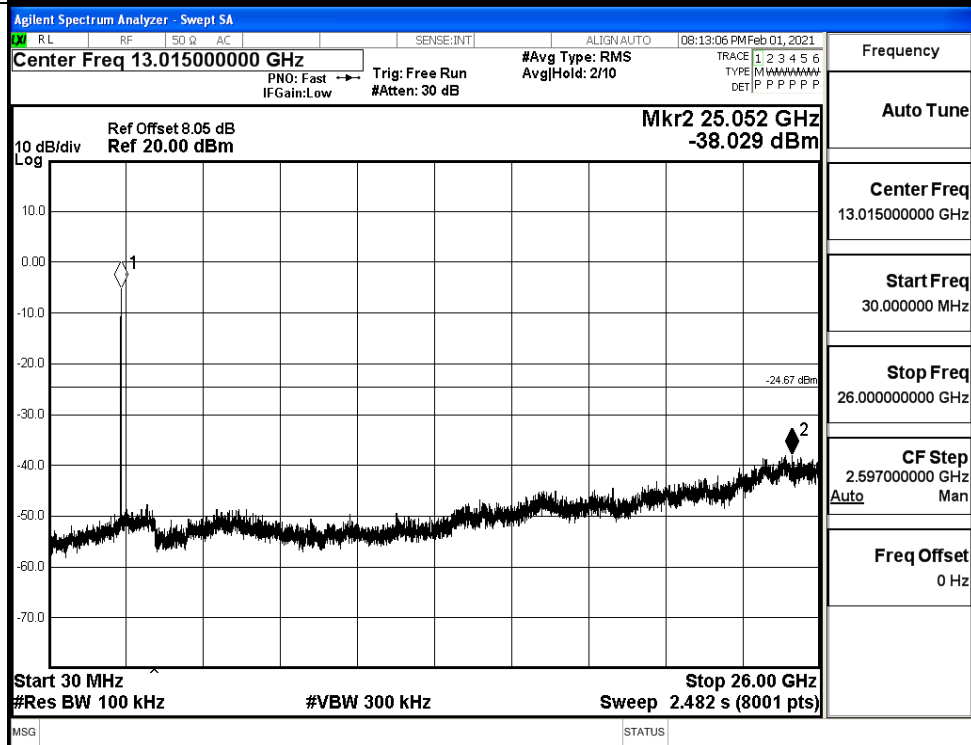


11B_HCH_Graphs

Pref/11B/HCH

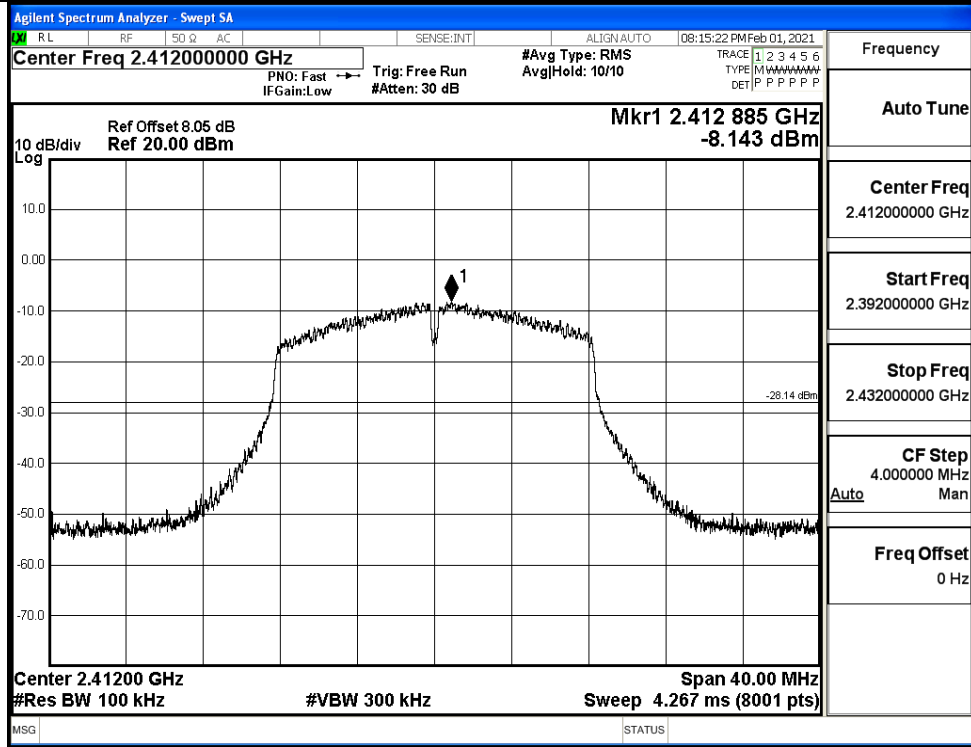


Puw/11B/HCH



11G_LCH_Graphs_ANT 1

Pref/11G/LCH



Puw/11G/LCH

