

Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Android TV™ Box (GMS)

Trade Mark: RockTek

Test Model: RT-G1

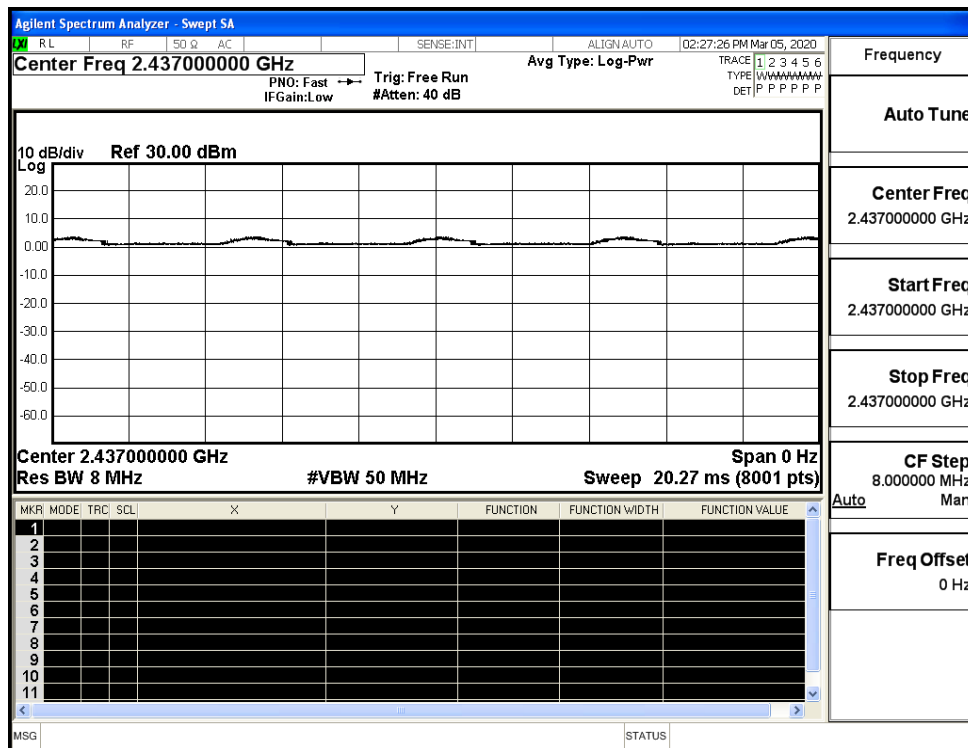
Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Scout Wu
Supervised by:	Tom.Liu

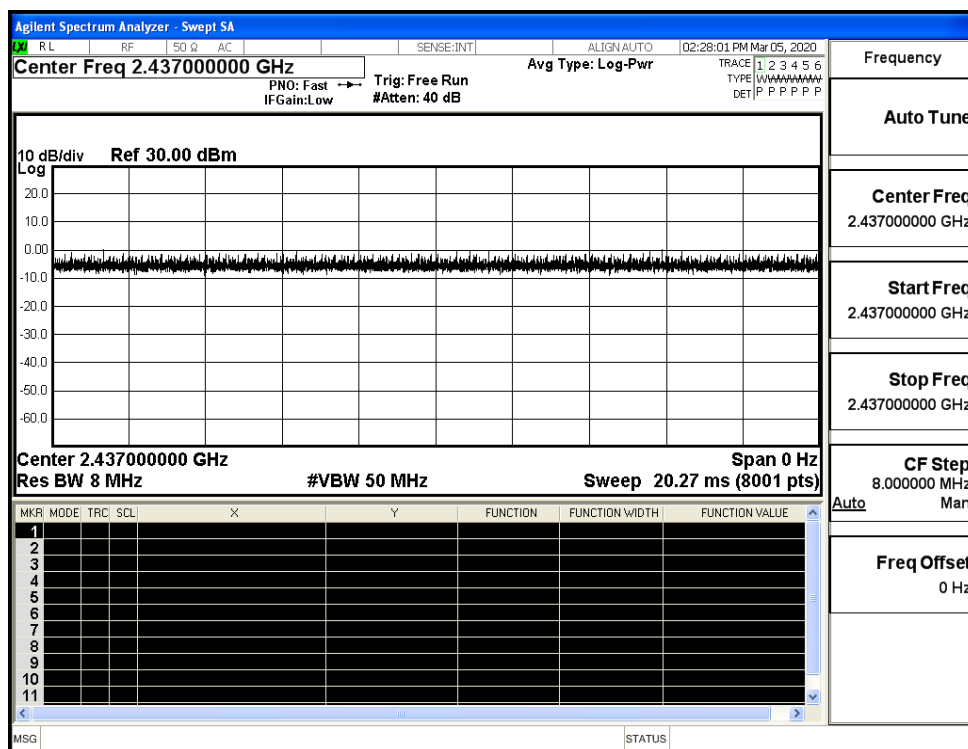
C.1 Duty Cycle

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

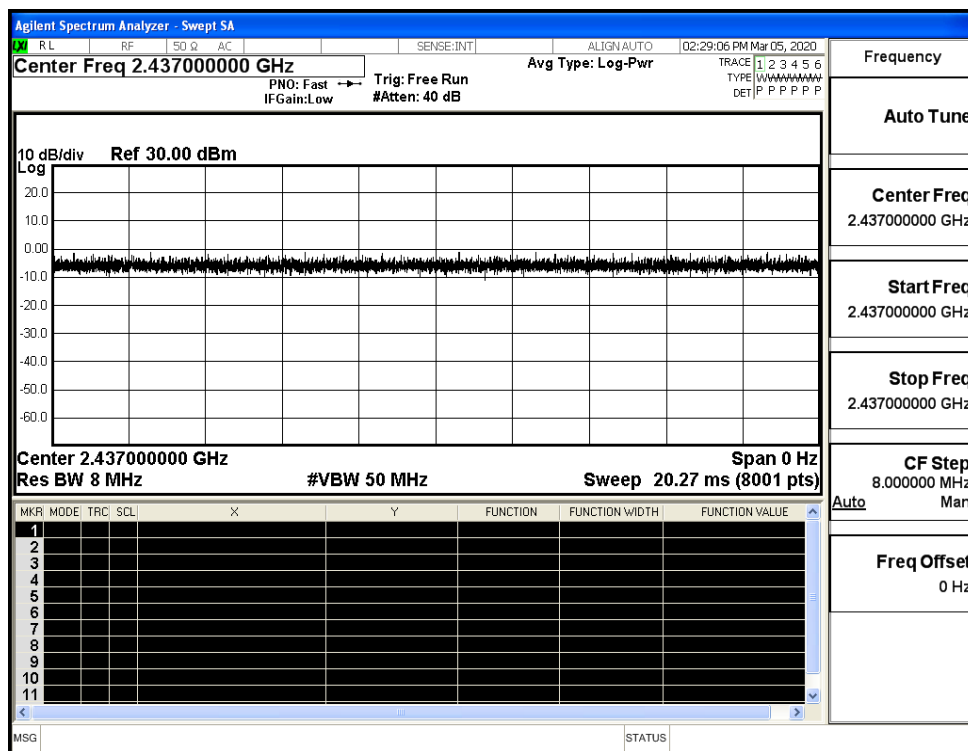
Duty Cycle_11B_2437_Ant0



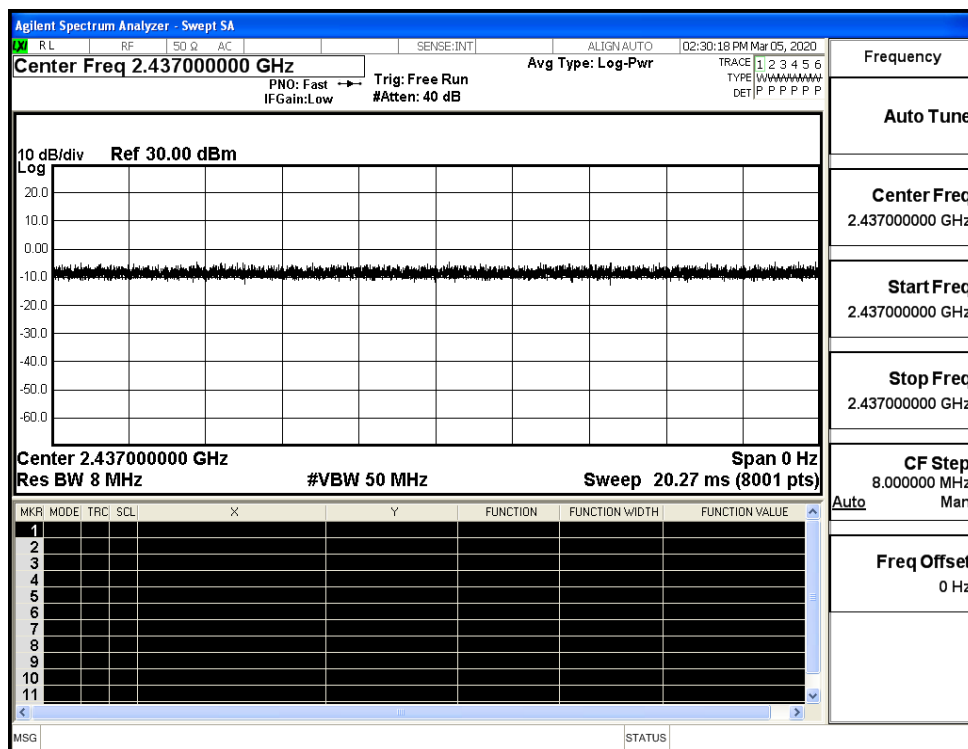
Duty Cycle_11G_2437_Ant0



Duty Cycle_11N20SISO_2437_Ant0

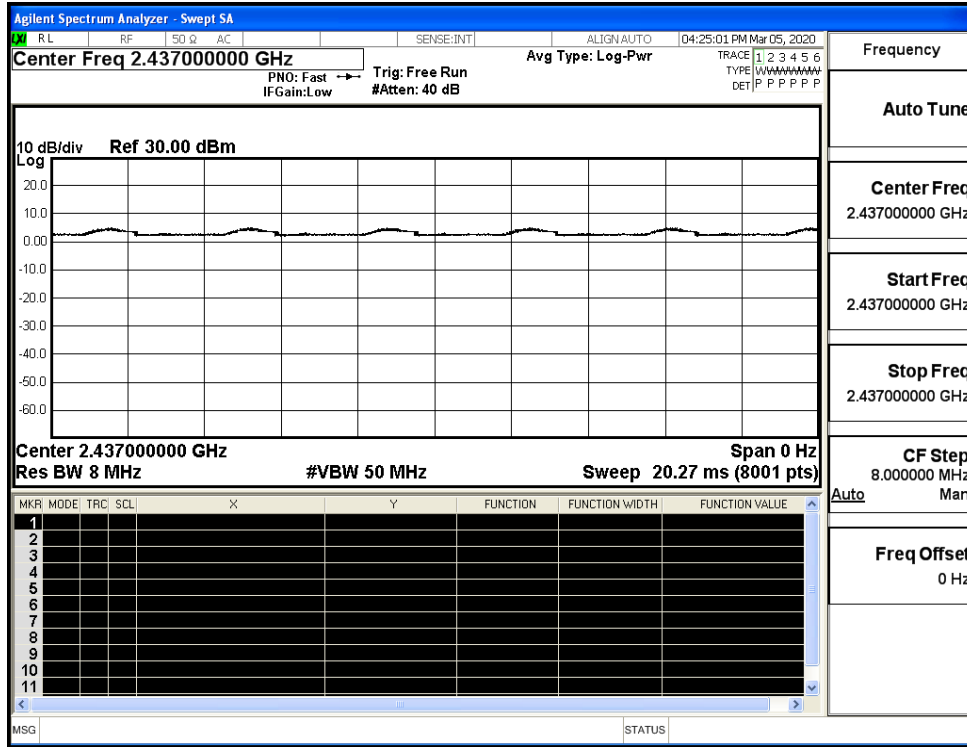


Duty Cycle_11N40SISO_2437_Ant0

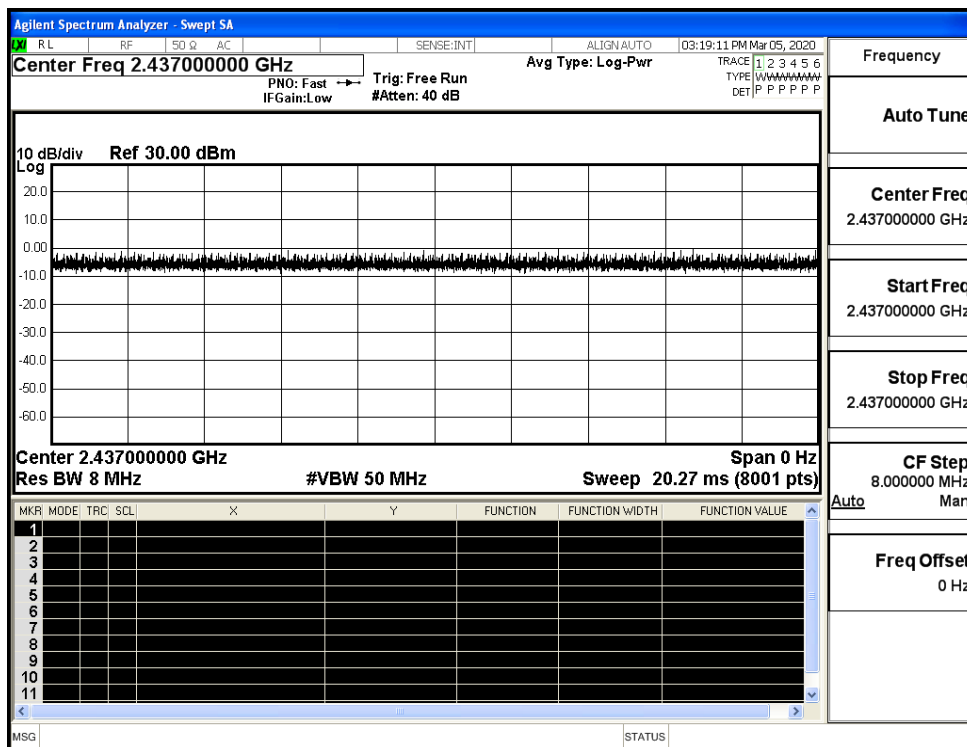


Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

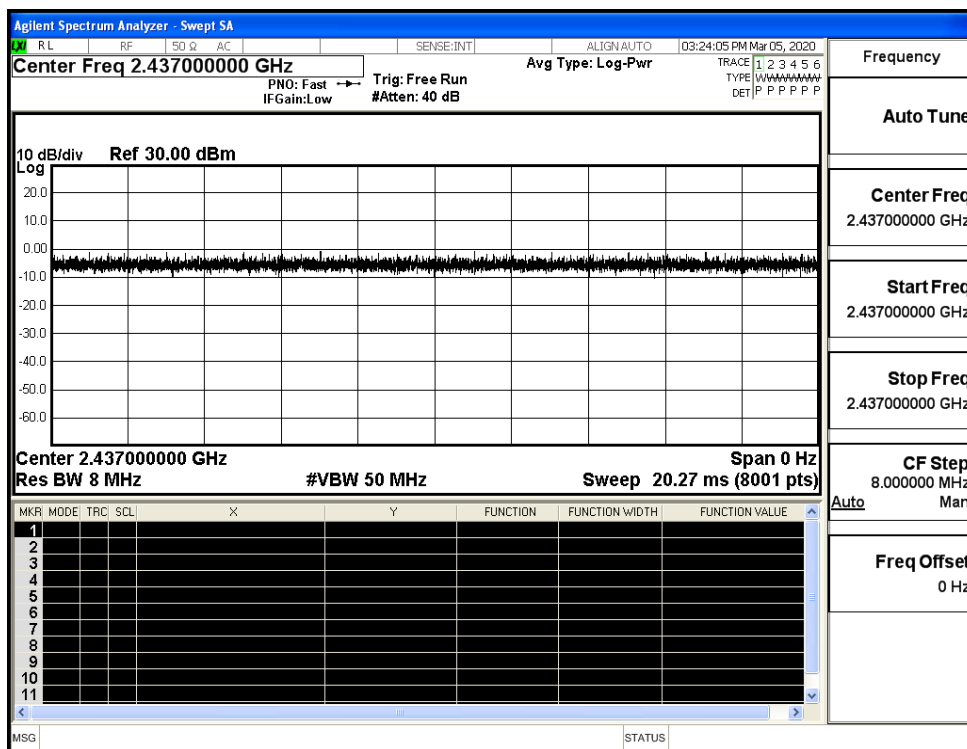
Duty Cycle_11B_2437_Ant1



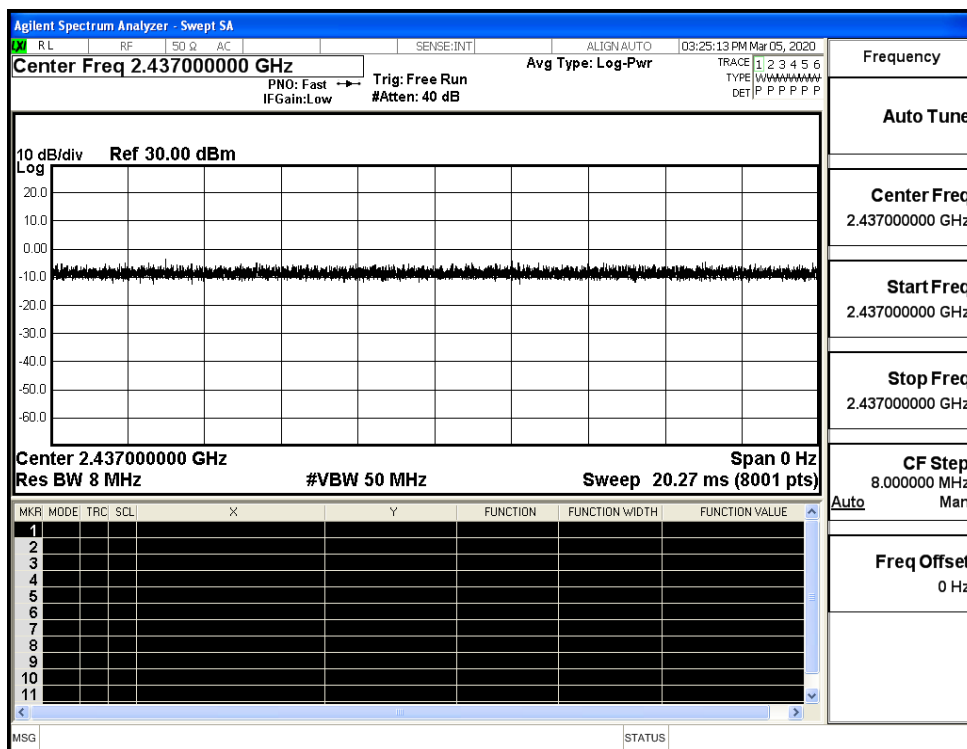
Duty Cycle_11G_2437_Ant1



Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1



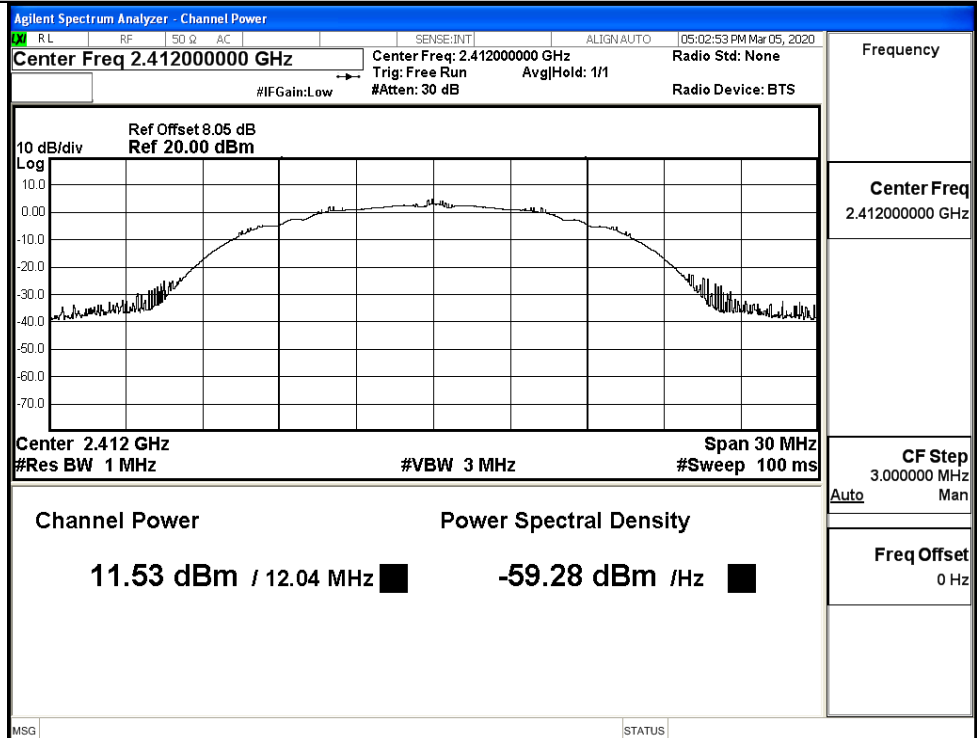
C.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]			Limit [dBm]	Verdict
		ANT0	ANT1	Sum		
11B	LCH	11.53	10.04	/	30	PASS
	MCH	11.37	10.09	/	30	PASS
	HCH	10.74	10.42	/	30	PASS
11G	LCH	10.85	10.51	/	30	PASS
	MCH	11.13	10.68	/	30	PASS
	HCH	10.85	10.78	/	30	PASS
11N20	LCH	11.36	11.10	14.24	30	PASS
	MCH	11.32	11.08	14.21	30	PASS
	HCH	10.91	11.14	14.04	30	PASS
11N40	LCH	12.96	10.67	14.97	30	PASS
	MCH	12.85	10.43	14.82	30	PASS
	HCH	11.49	10.14	13.88	30	PASS

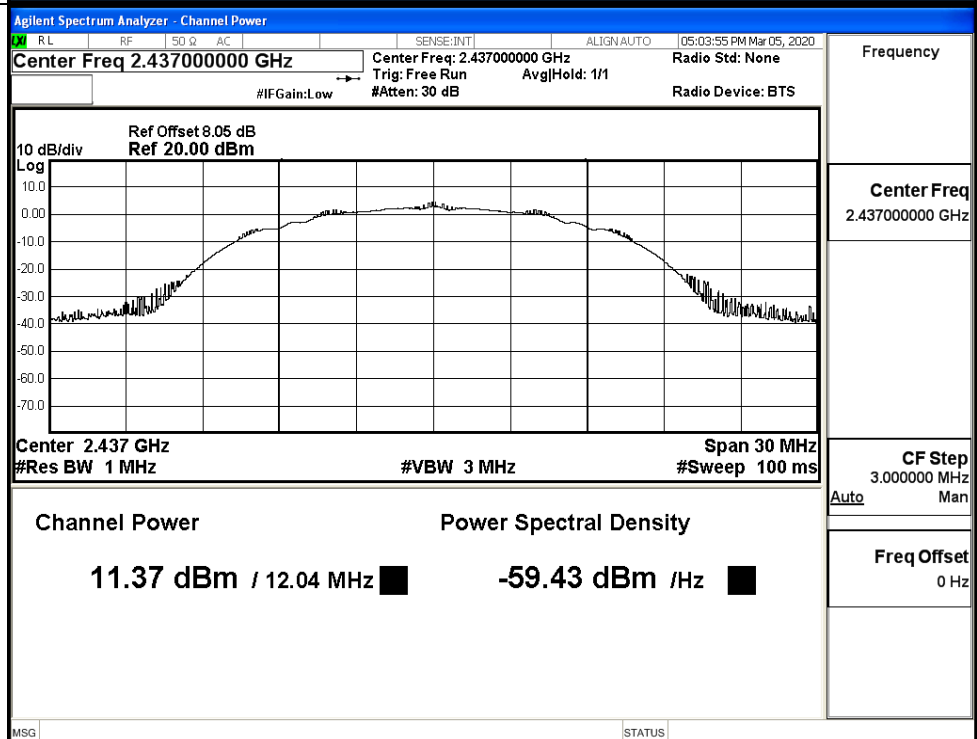
ANT0

Test Graphs

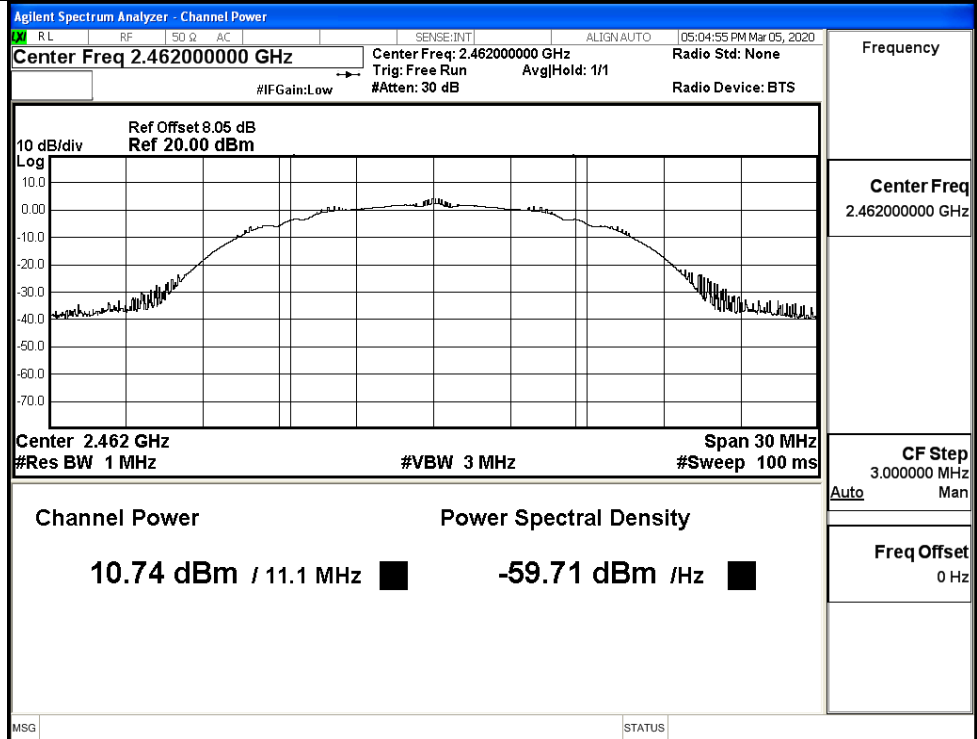
11B/LCH



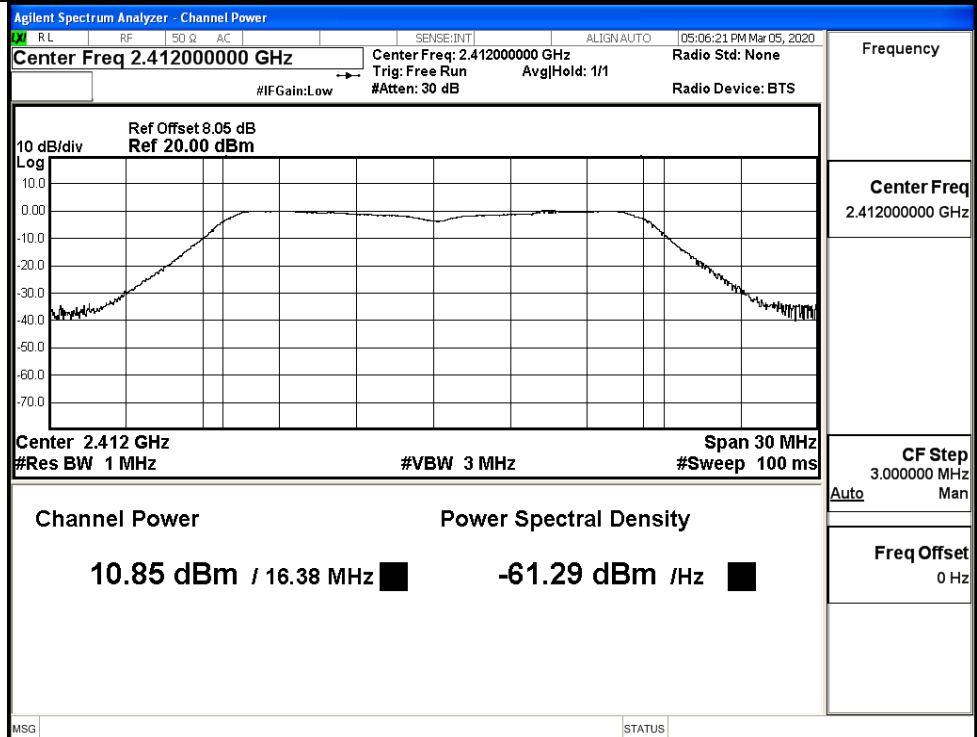
11B/MCH



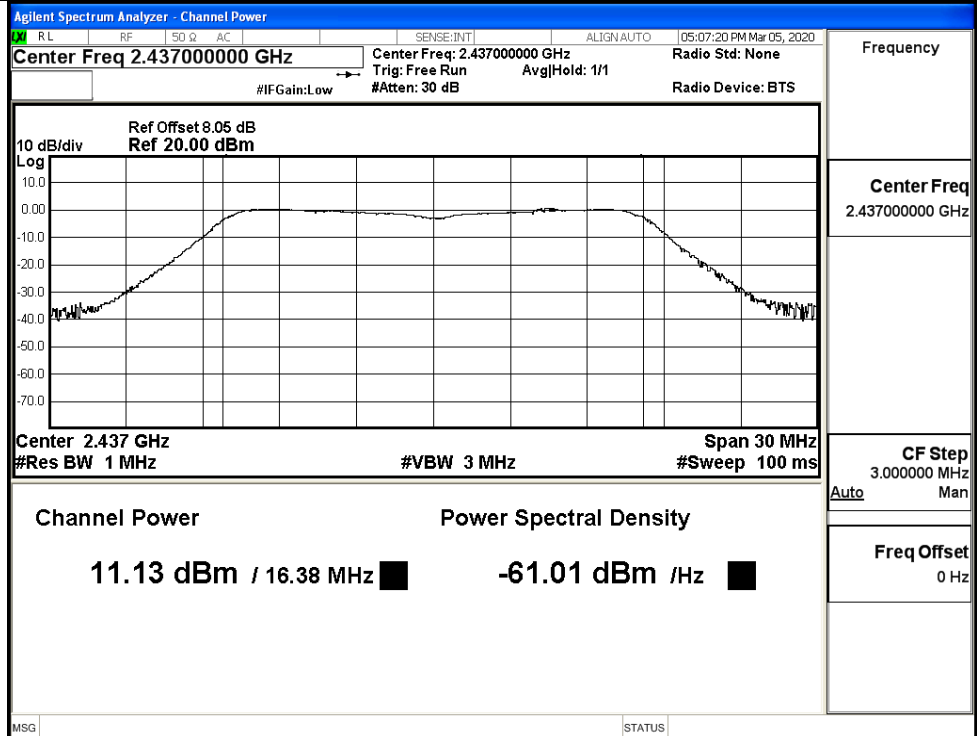
11B/HCH



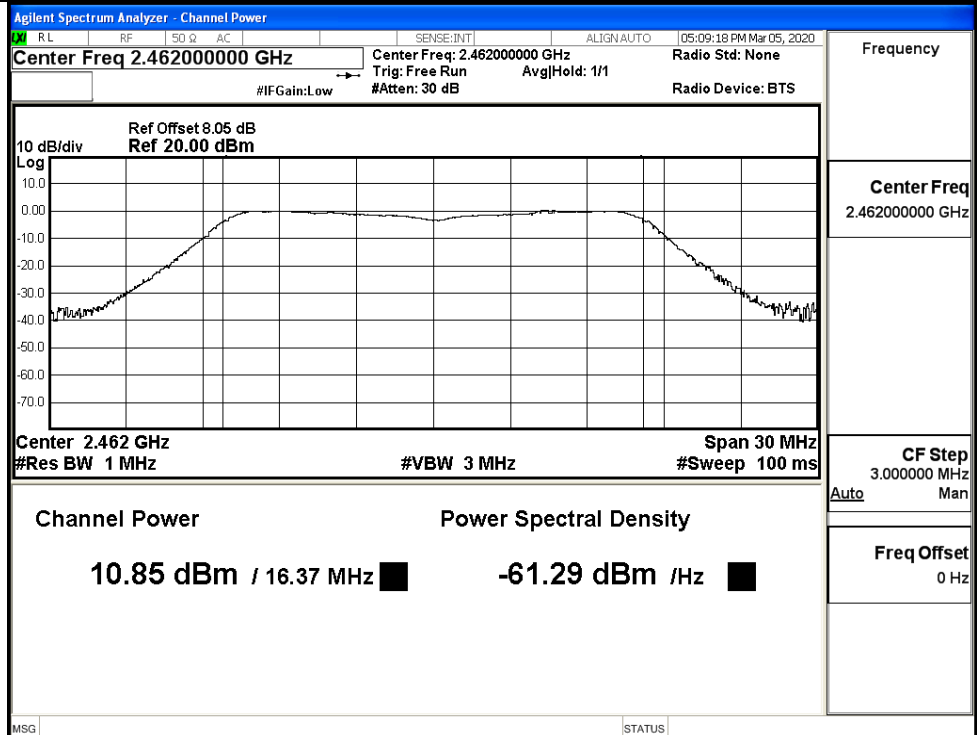
11G/LCH



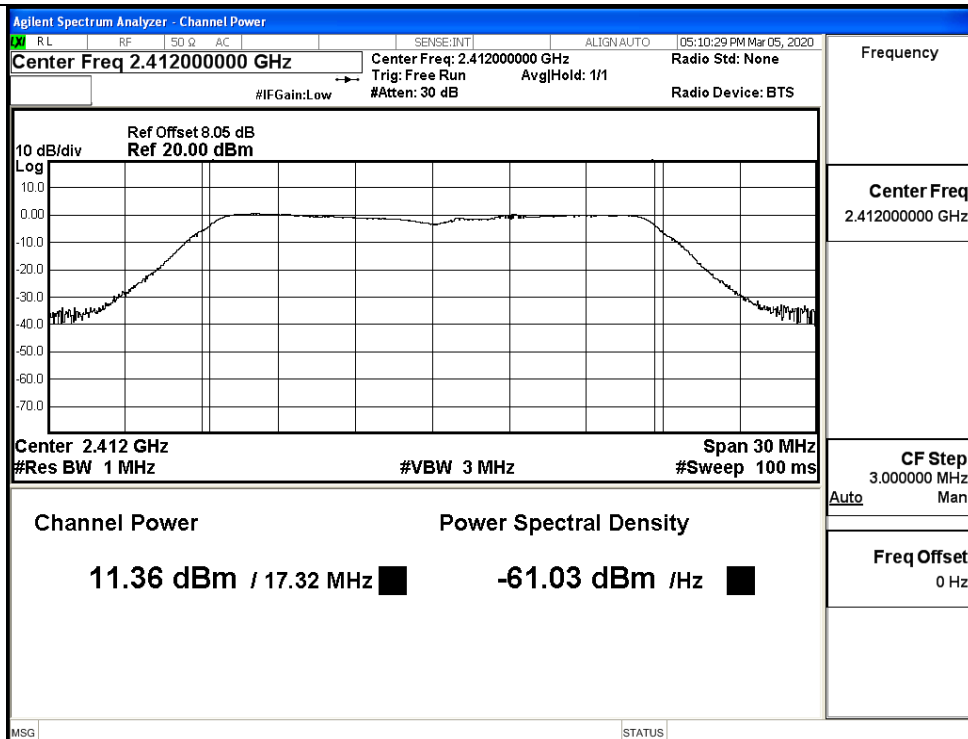
11G/MCH



11G/HCH



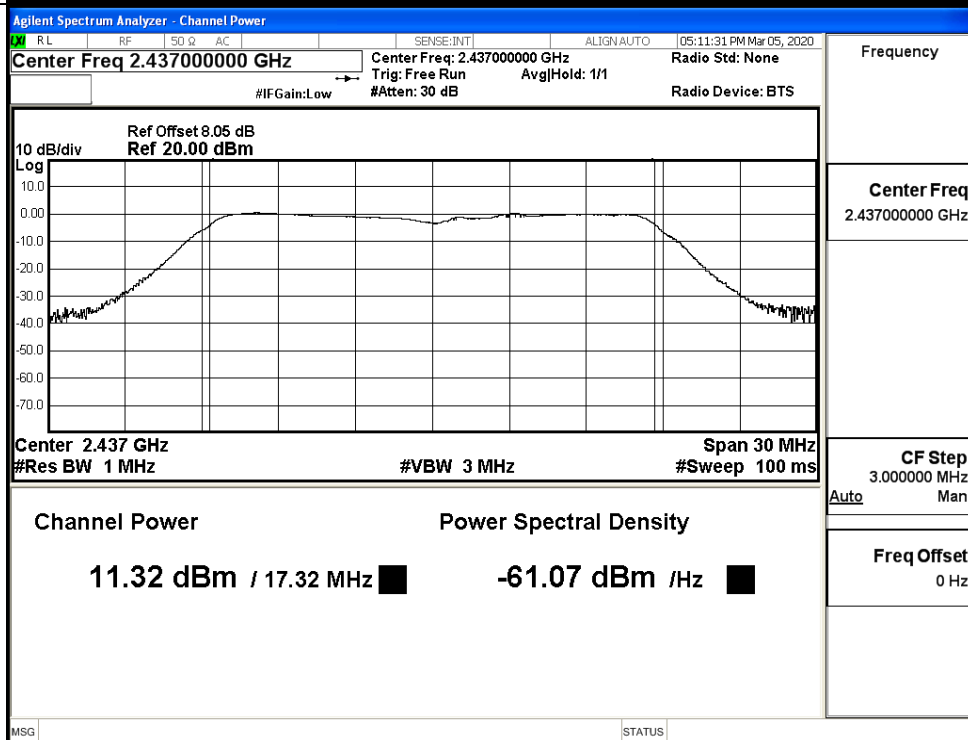
11N20SISO/LCH



Frequency

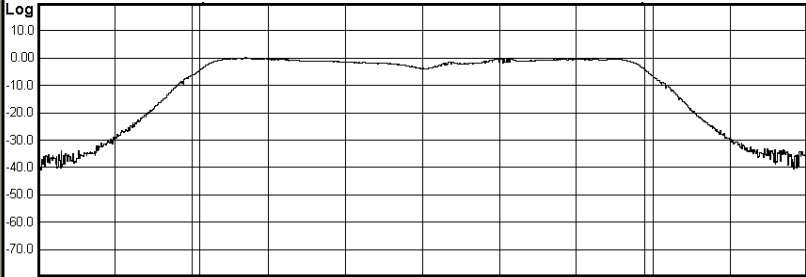
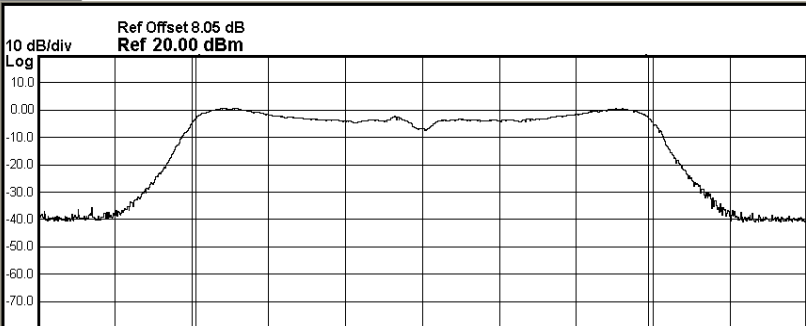
Center Freq
2.412000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/MCH

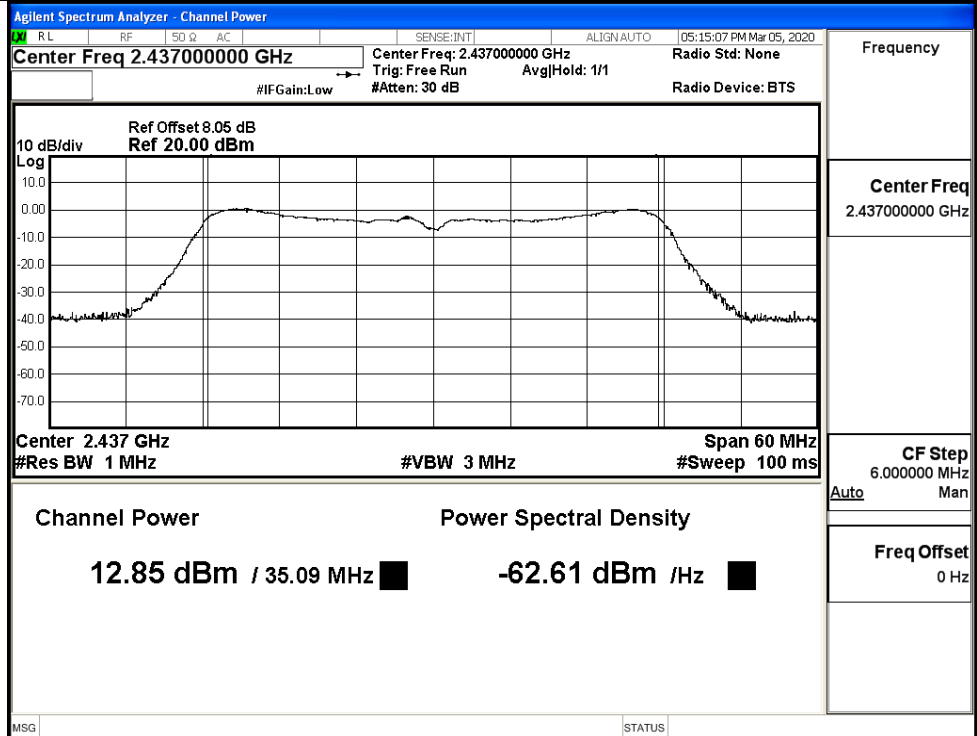


Frequency

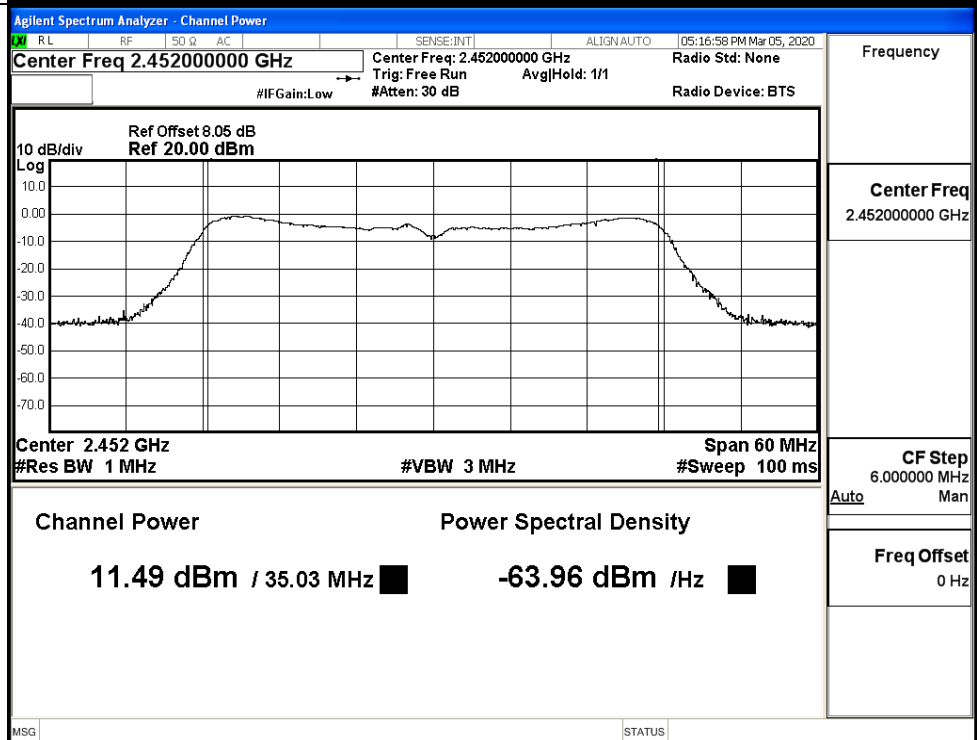
Center Freq
2.437000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/HCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:12:41 PM Mar 05, 2020 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB Radio Std: None Avg Hold: 1/1 Radio Device: BTS 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm  Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 10.91 dBm / 17.32 MHz -61.47 dBm /Hz MSG STATUS Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N40SISO/LCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 05:13:48 PM Mar 05, 2020 Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB Radio Std: None Avg Hold: 1/1 Radio Device: BTS 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm  Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz #Sweep 100 ms Channel Power Power Spectral Density 12.96 dBm / 35.18 MHz -62.50 dBm /Hz MSG STATUS Frequency Center Freq 2.422000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz

11N40SISO/MCH



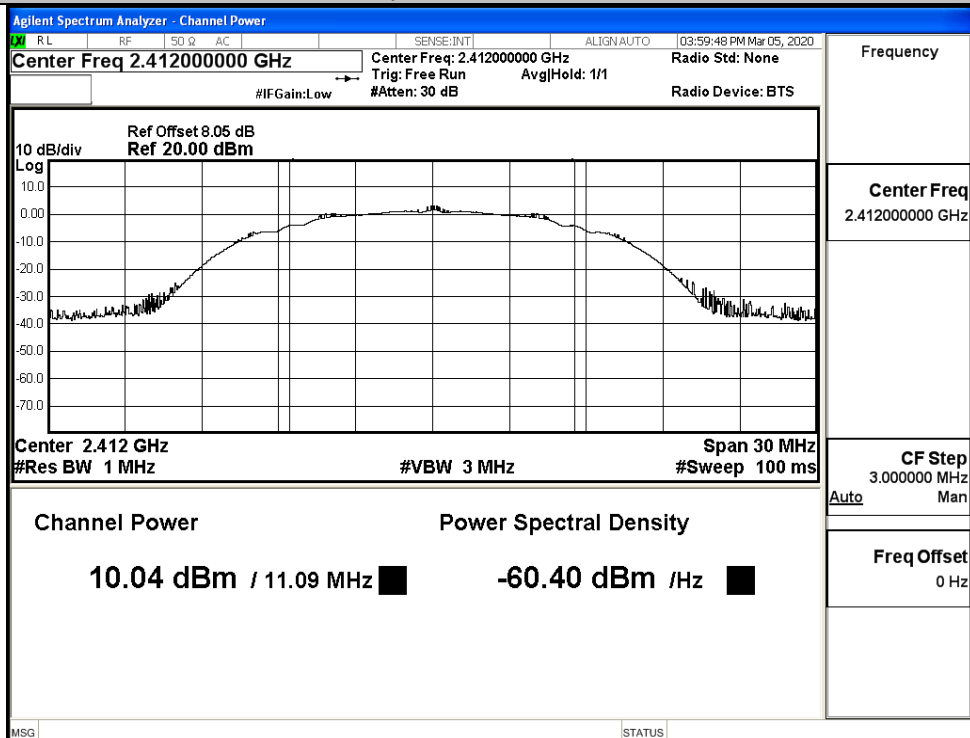
11N40SISO/HCH



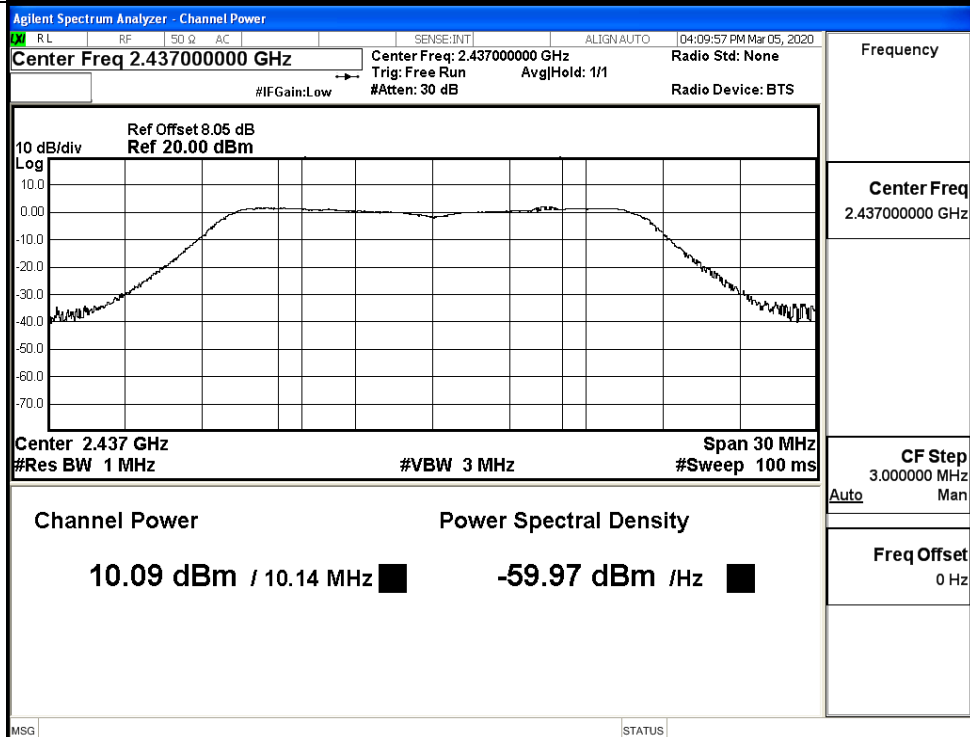
ANT1

Test Graphs

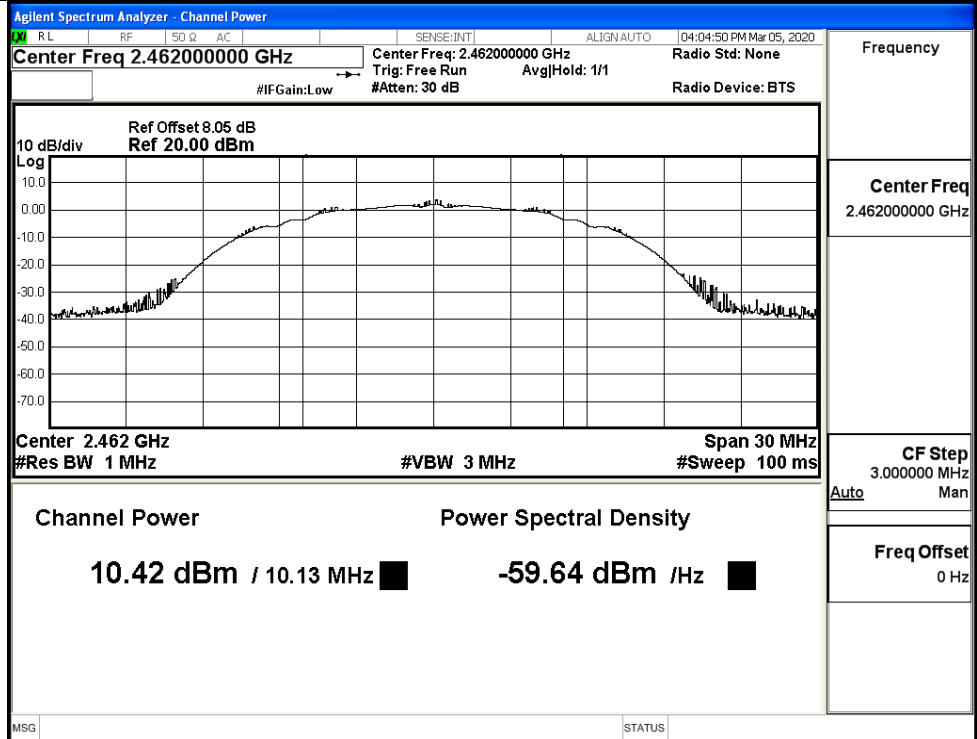
11B/LCH



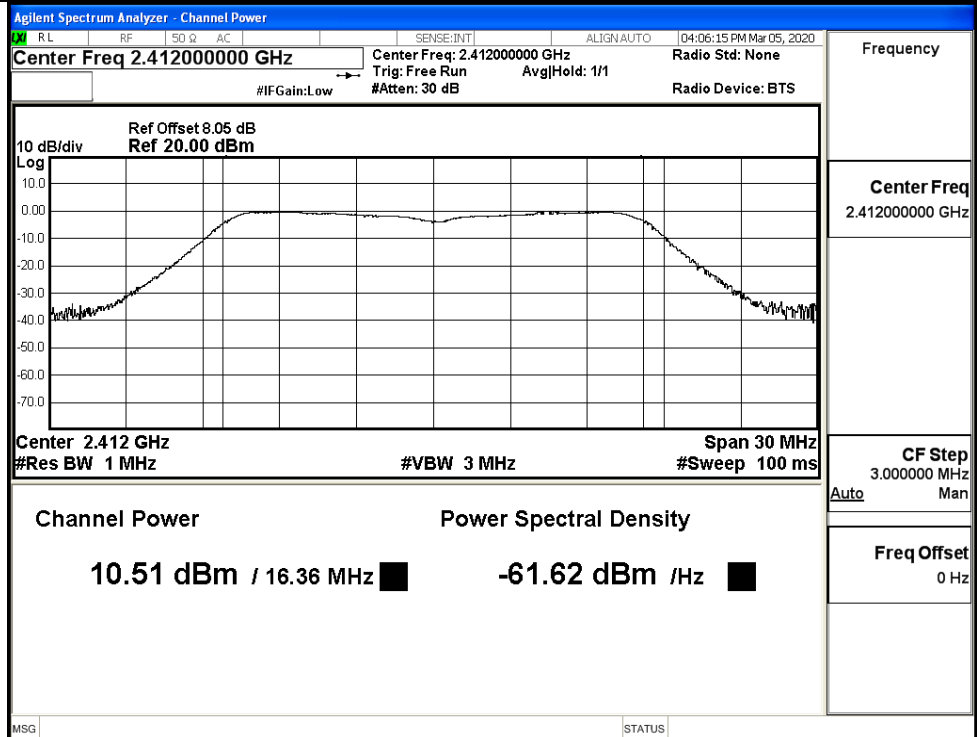
11B/MCH



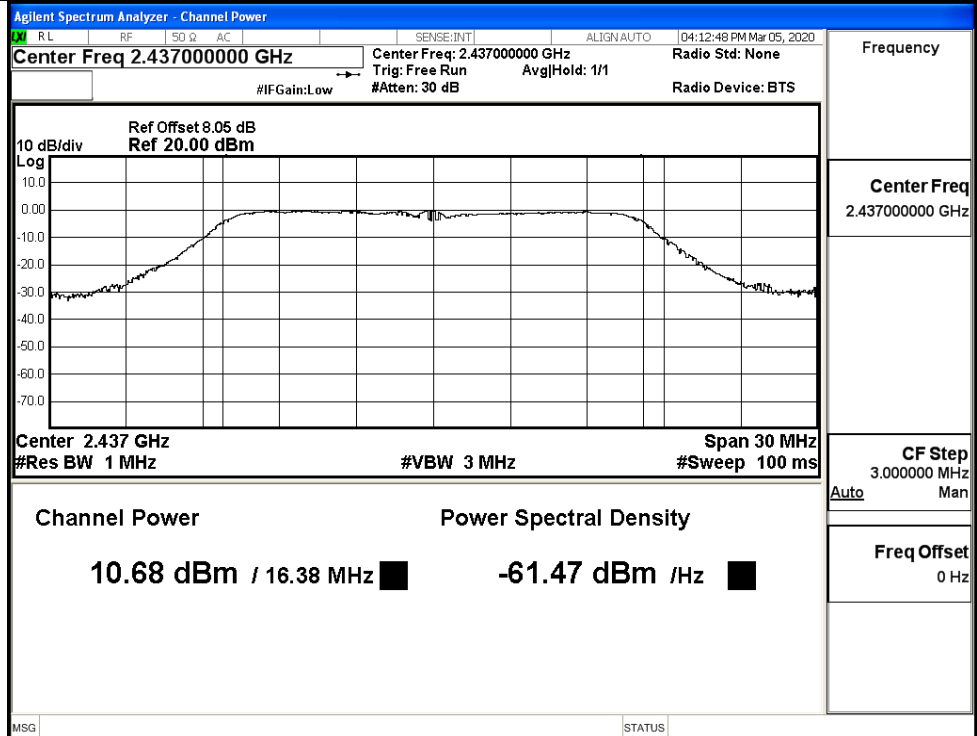
11B/HCH



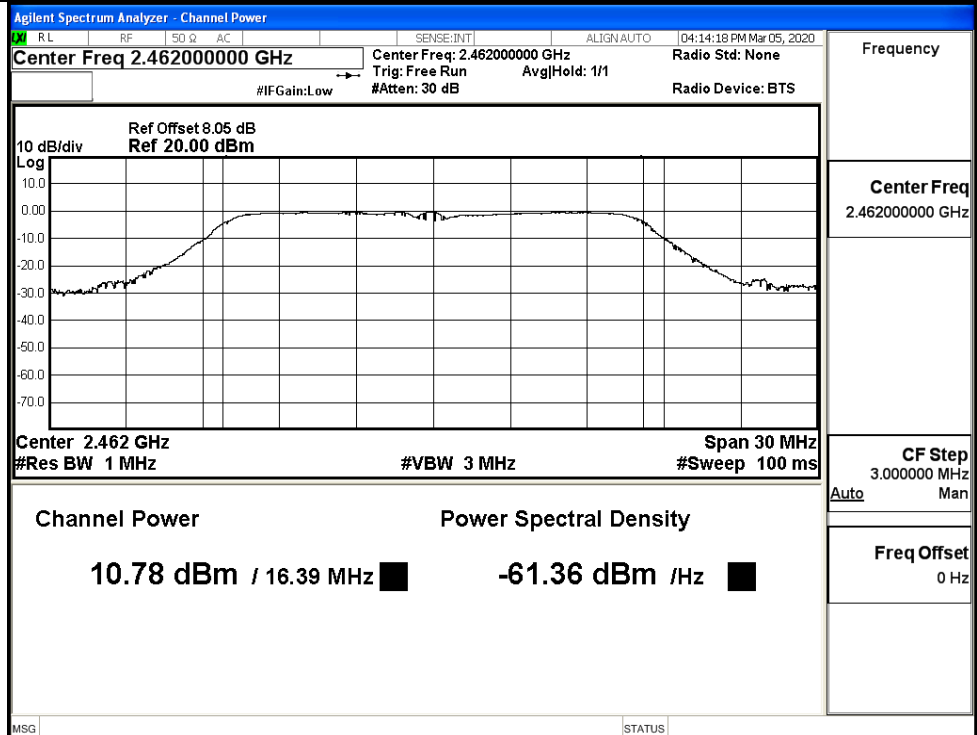
11G/LCH



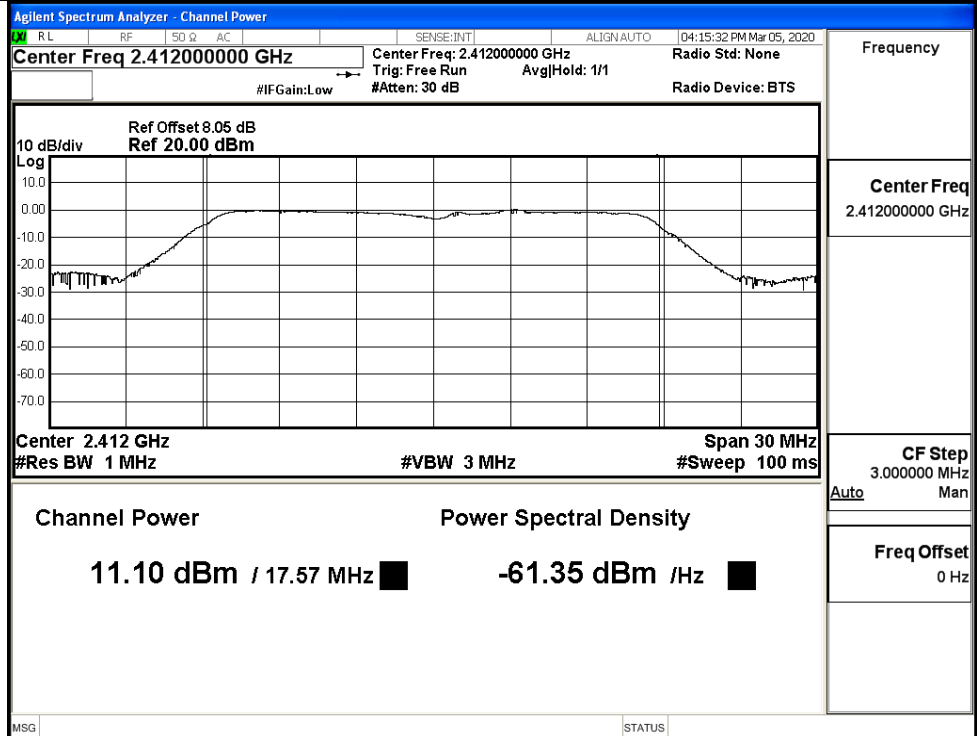
11G/MCH



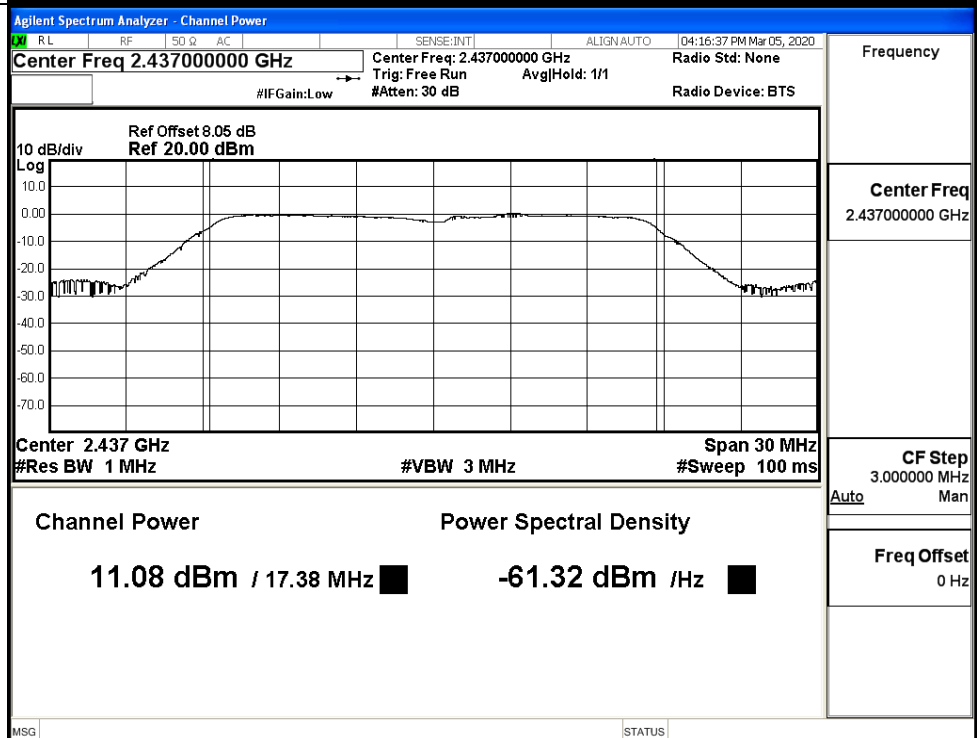
11G/HCH

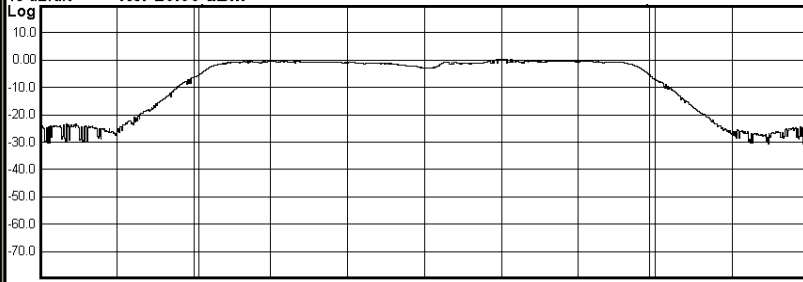
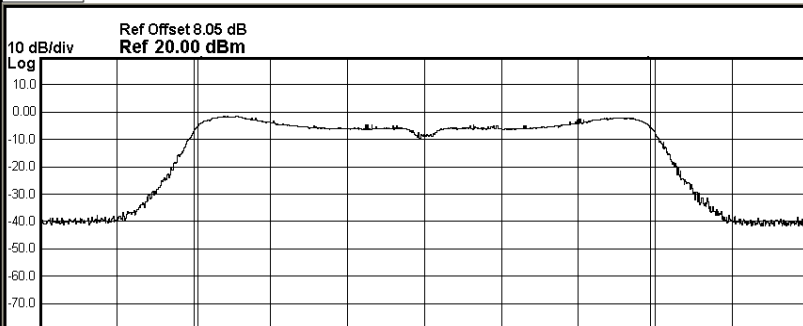


11N20SISO/LCH

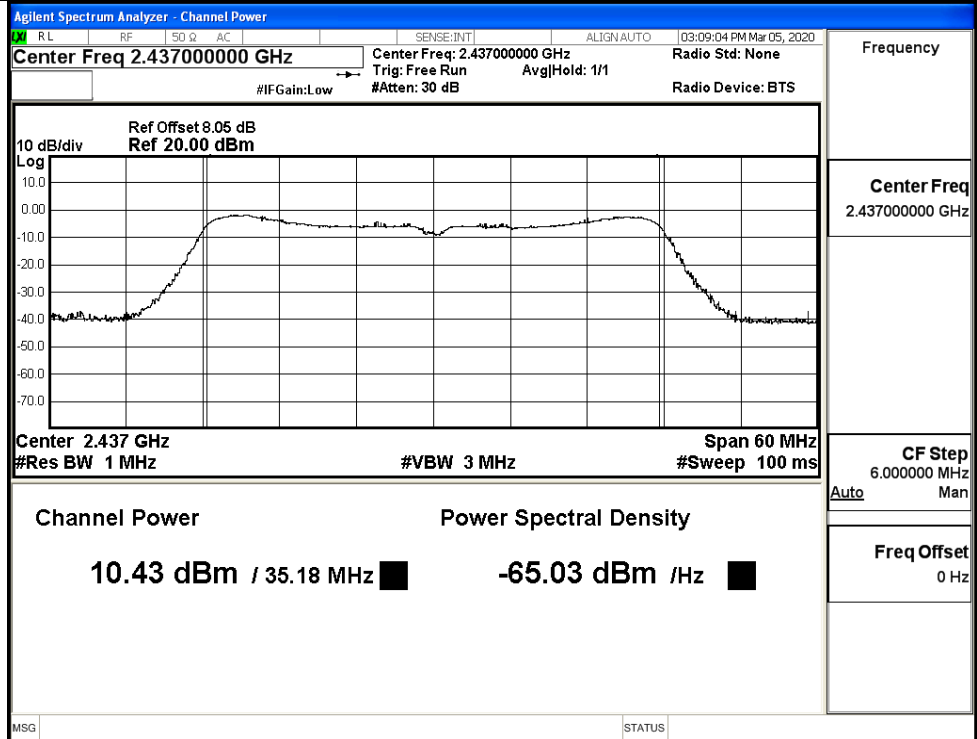


11N20SISO/MCH

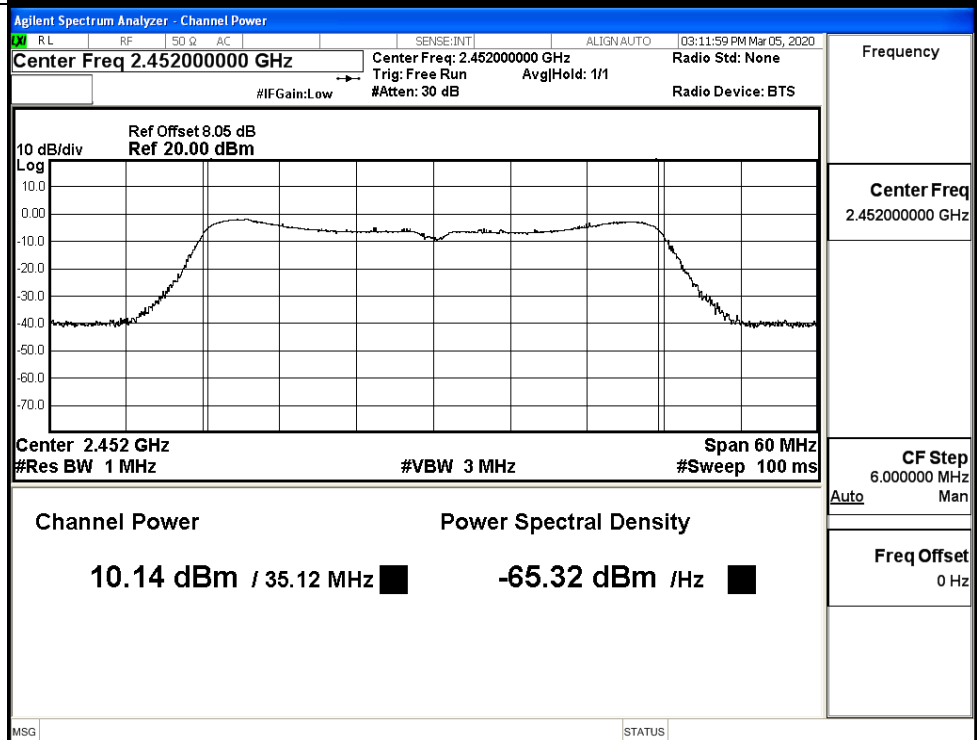


11N20SISO/HCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 04:18:50 PM Mar 05, 2020 Center Freq 2.462000000 GHz Center Freq: 2.462000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB Radio Std: None Avg Hold: 1/1 Radio Device: BTS 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm  Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 30 MHz #Sweep 100 ms Channel Power Power Spectral Density 11.14 dBm / 17.53 MHz -61.30 dBm /Hz MSG STATUS Frequency Center Freq 2.462000000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
11N40SISO/LCH	Agilent Spectrum Analyzer - Channel Power RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 03:05:21 PM Mar 05, 2020 Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Trig: Free Run #IFGain: Low #Atten: 30 dB Radio Std: None Avg Hold: 1/1 Radio Device: BTS 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm  Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz #Sweep 100 ms Channel Power Power Spectral Density 10.67 dBm / 35.2 MHz -64.80 dBm /Hz MSG STATUS Frequency Center Freq 2.422000000 GHz CF Step 6.000000 MHz Auto Man Freq Offset 0 Hz

11N40SISO/MCH



11N40SISO/HCH



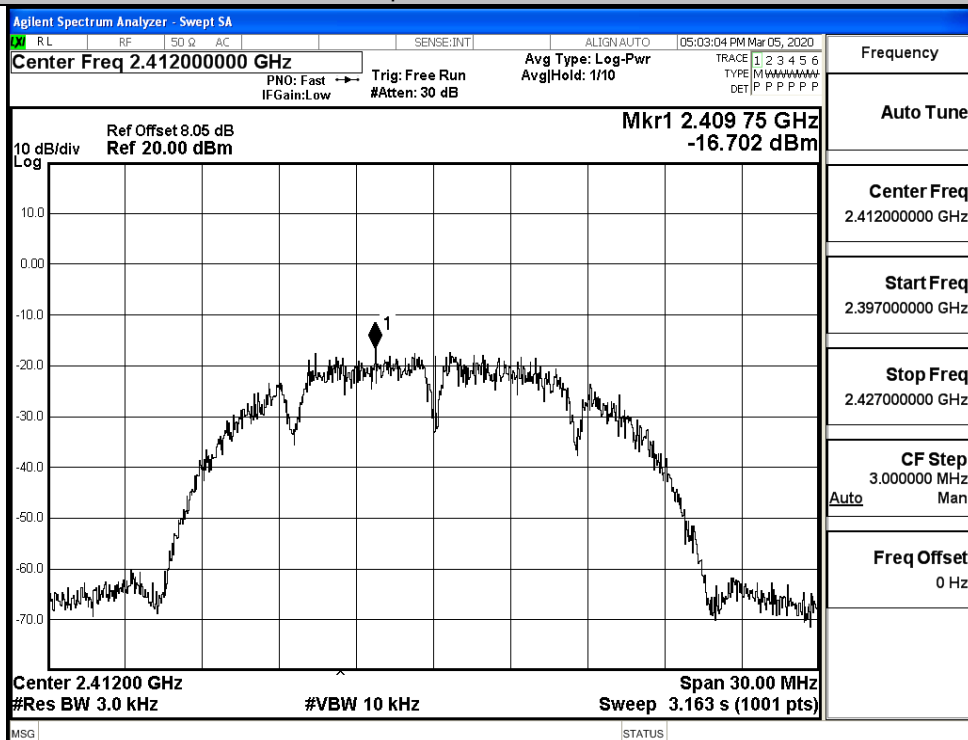
C.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]			Limit [dBm/3KHz]	Verdict
		ANT0	ANT1	Sum		
11B	LCH	-16.70	-16.28	/	8	PASS
	MCH	-15.90	-20.66	/	8	PASS
	HCH	-15.39	-16.85	/	8	PASS
11G	LCH	-21.67	-23.38	/	8	PASS
	MCH	-22.23	-24.27	/	8	PASS
	HCH	-22.35	-23.72	/	8	PASS
11N20	LCH	-22.02	-22.84	-19.40	7.99	PASS
	MCH	-22.17	-22.97	-19.54	7.99	PASS
	HCH	-22.42	-22.83	-19.61	7.99	PASS
11N40	LCH	-20.87	-23.46	-18.96	7.99	PASS
	MCH	-21.22	-22.49	-18.80	7.99	PASS
	HCH	-22.89	-22.32	-19.59	7.99	PASS

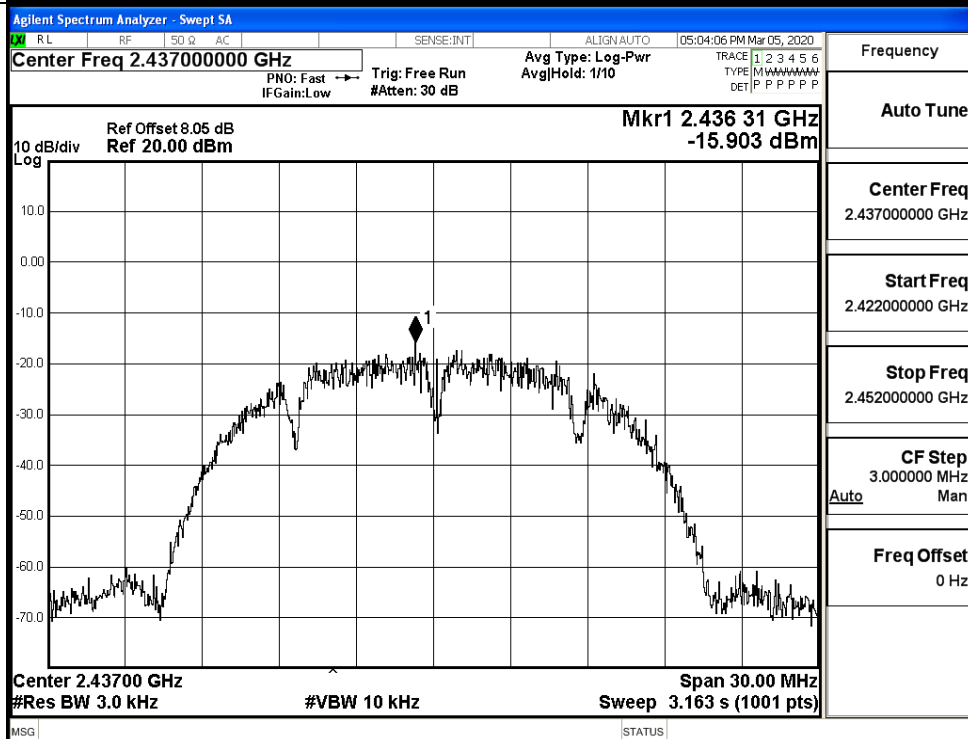
ANT0

Test Graphs

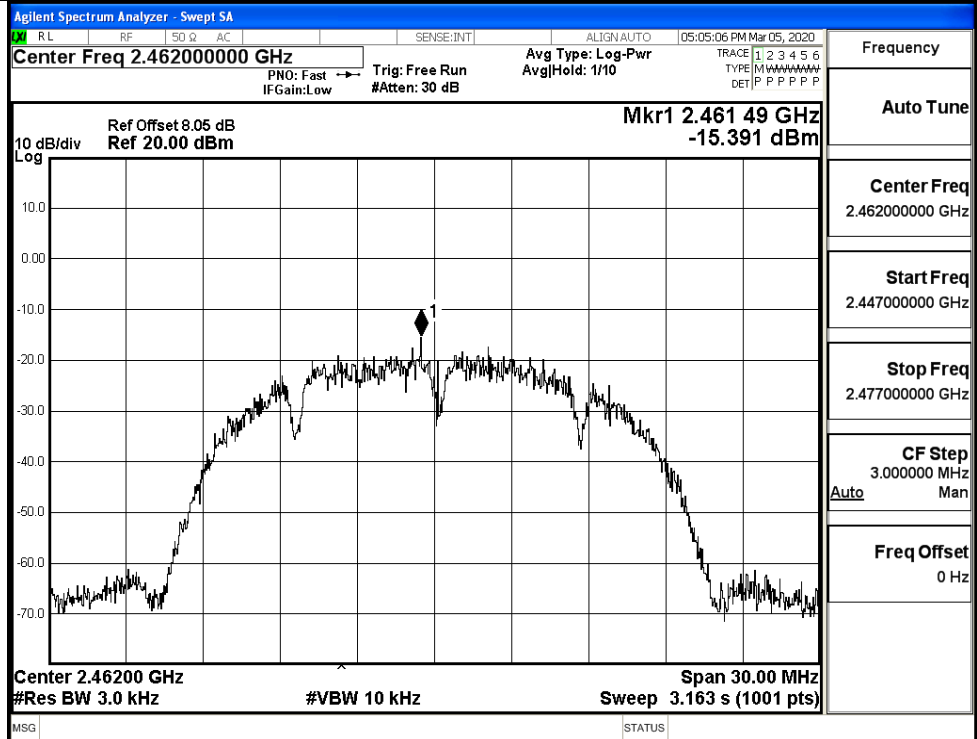
11B/LCH



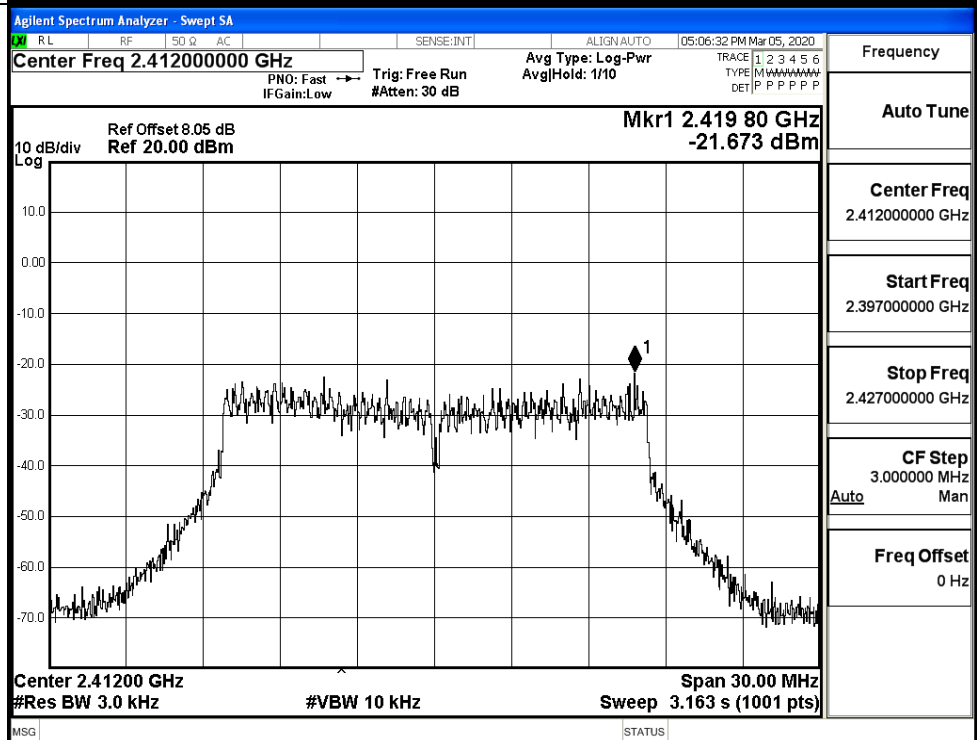
11B/MCH



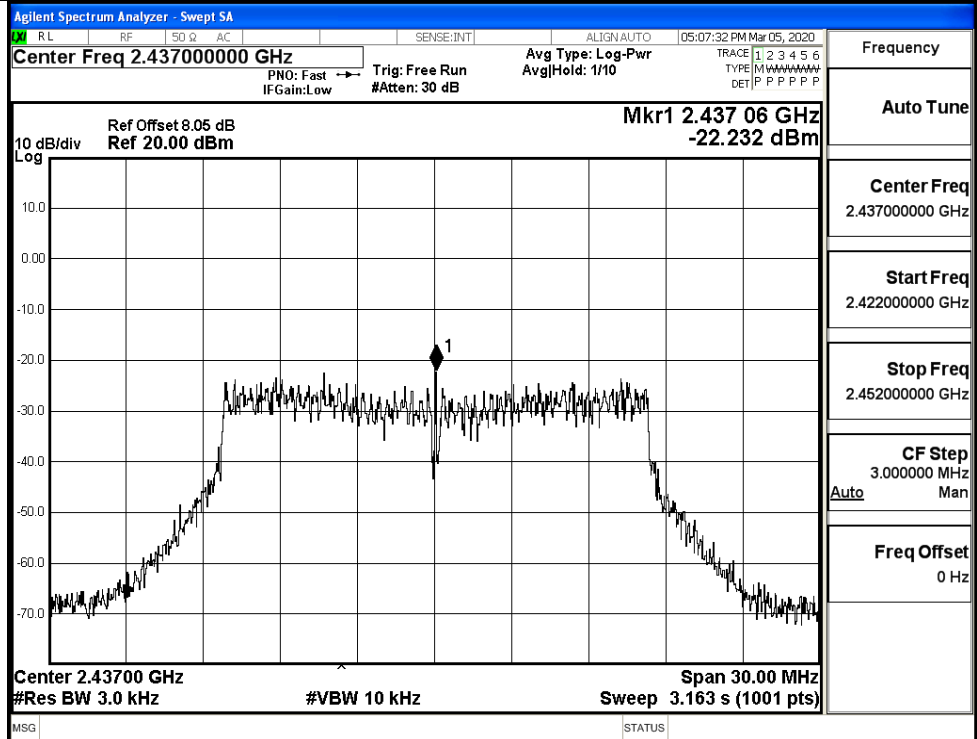
11B/HCH



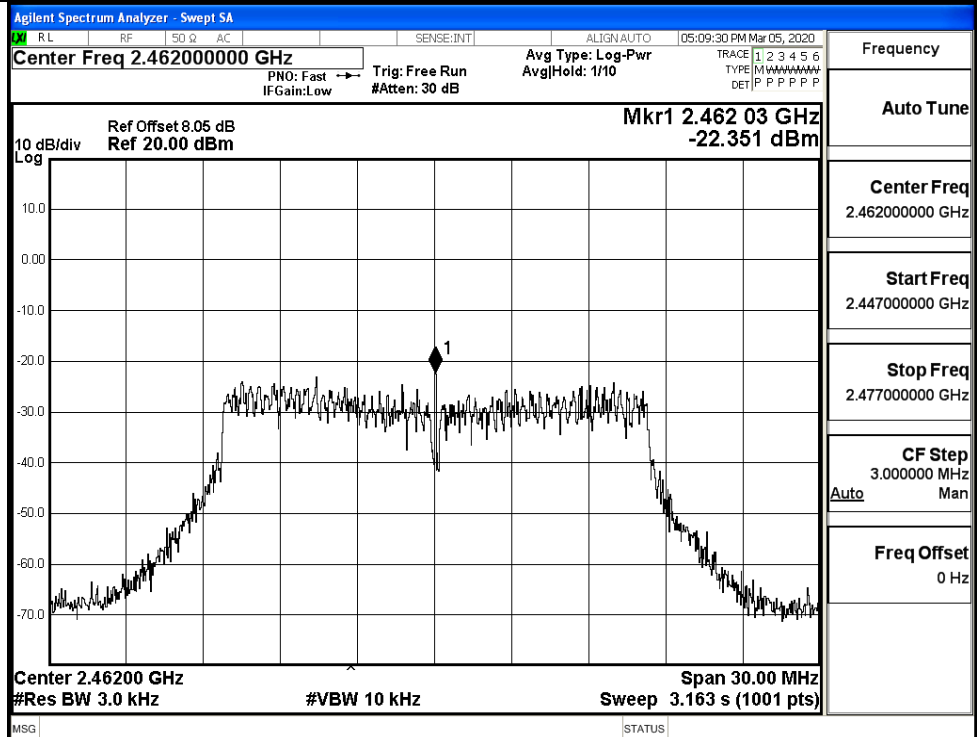
11G/LCH



11G/MCH

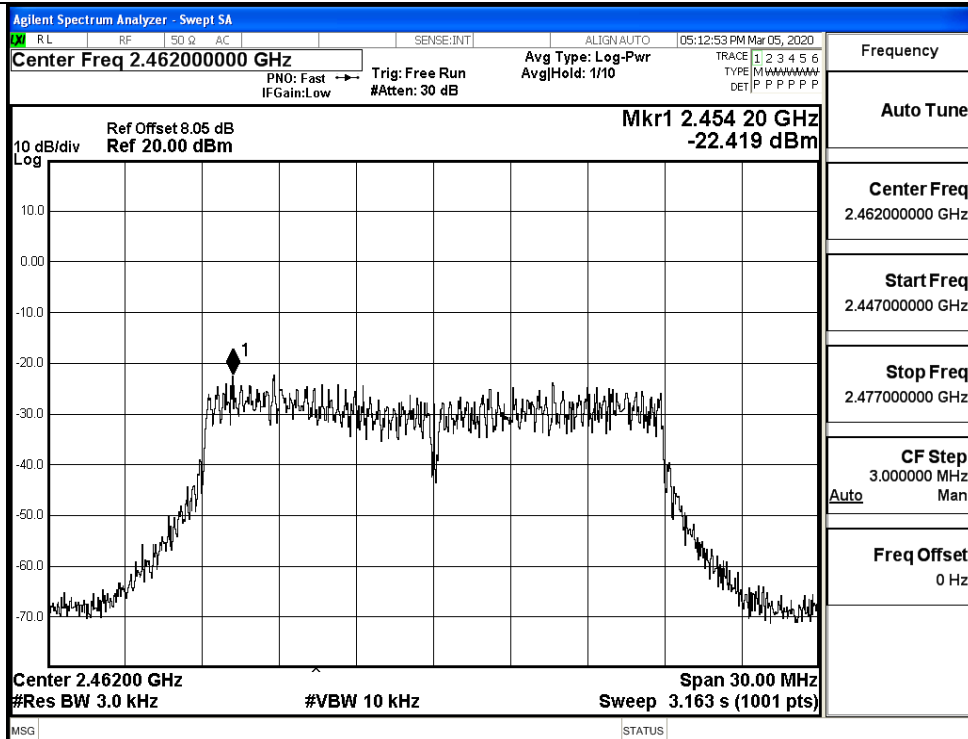


11G/HCH

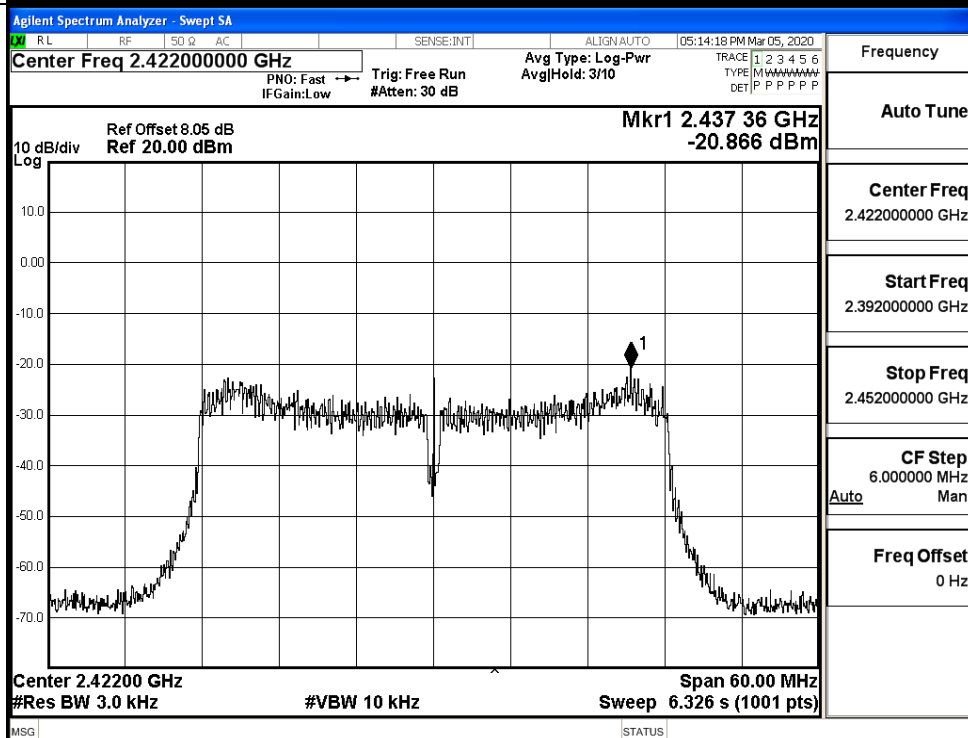


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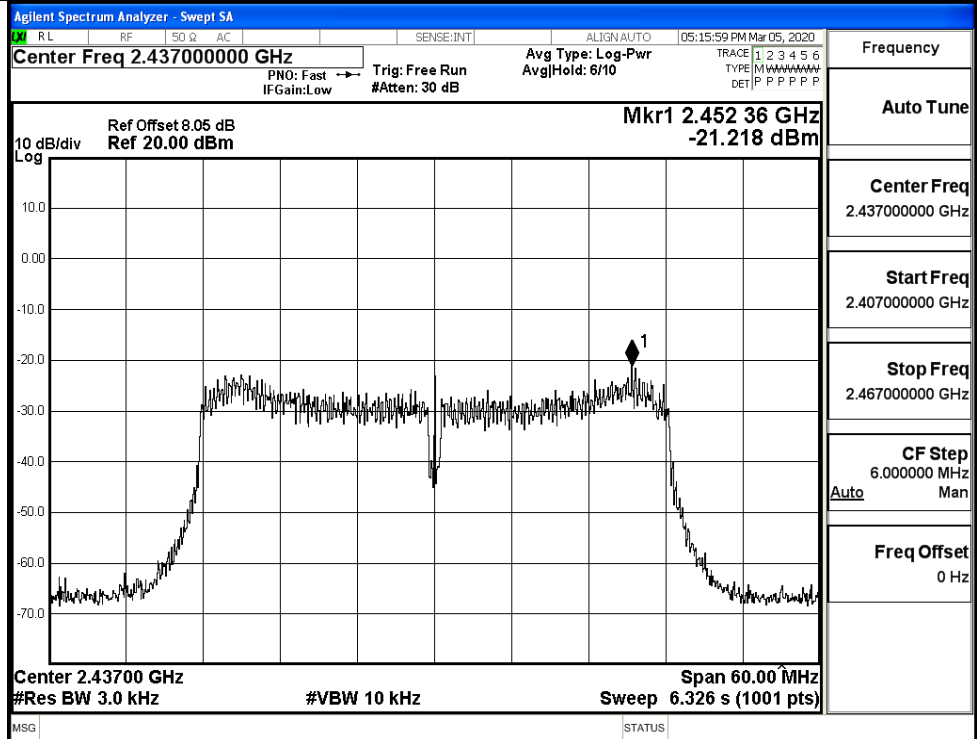
11N20SISO/HCH



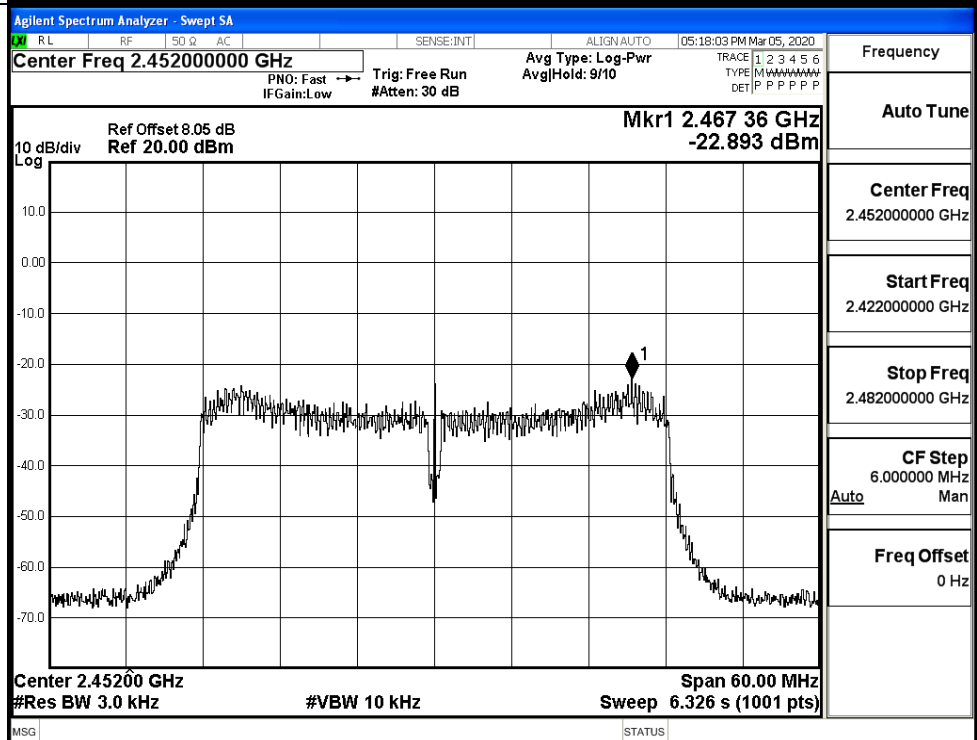
11N40SISO/LCH



11N40SISO/MCH



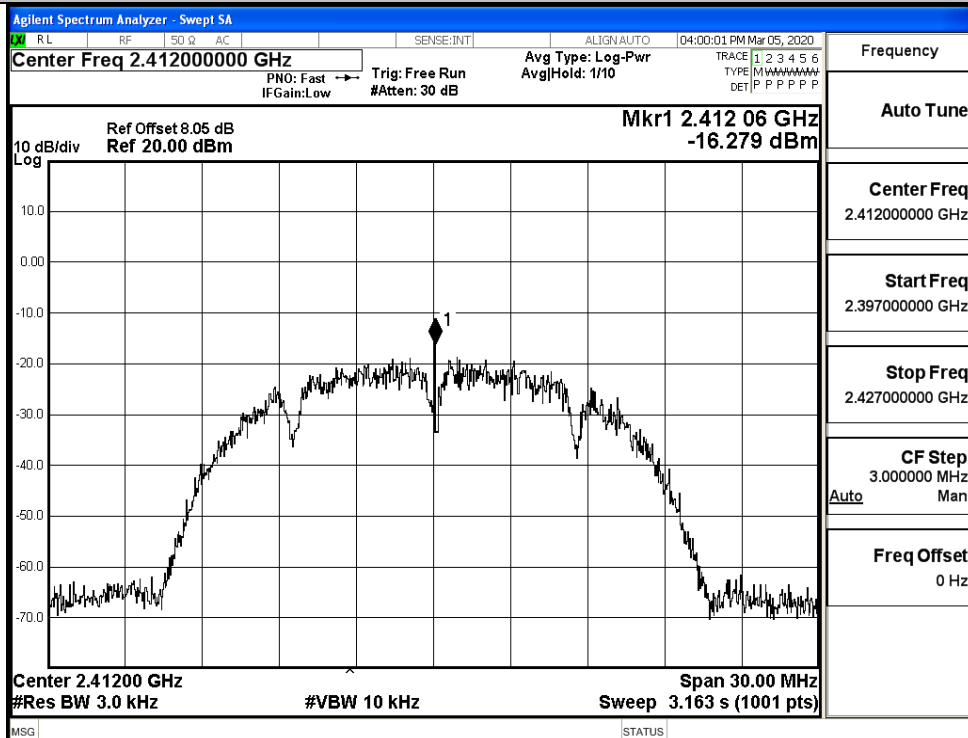
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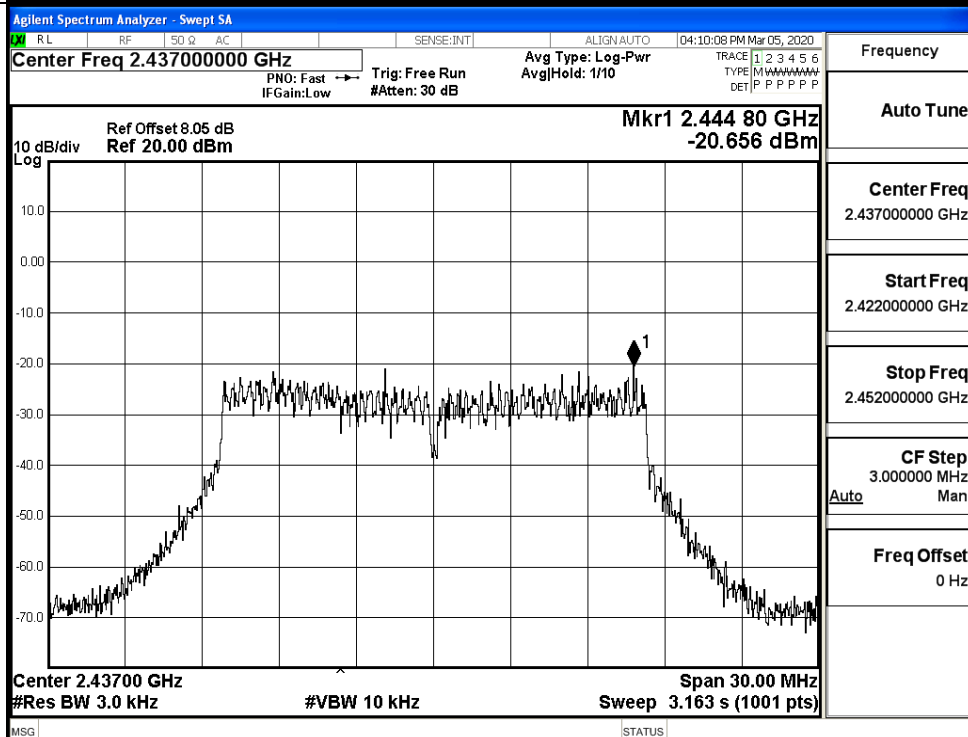
ANT1

Test Graphs

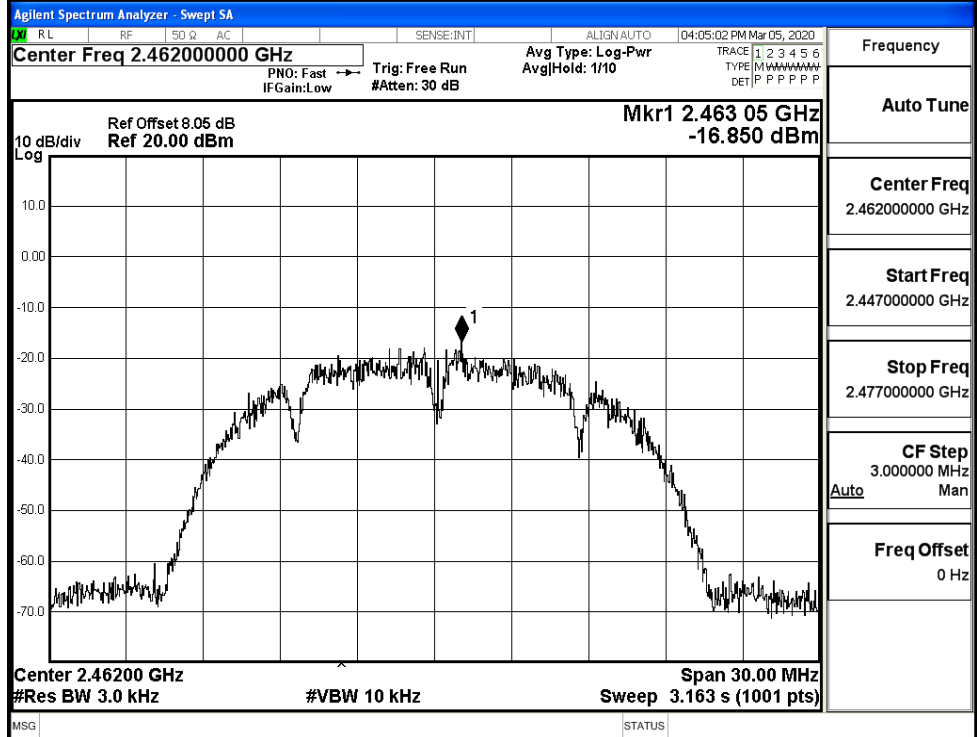
11B/LCH



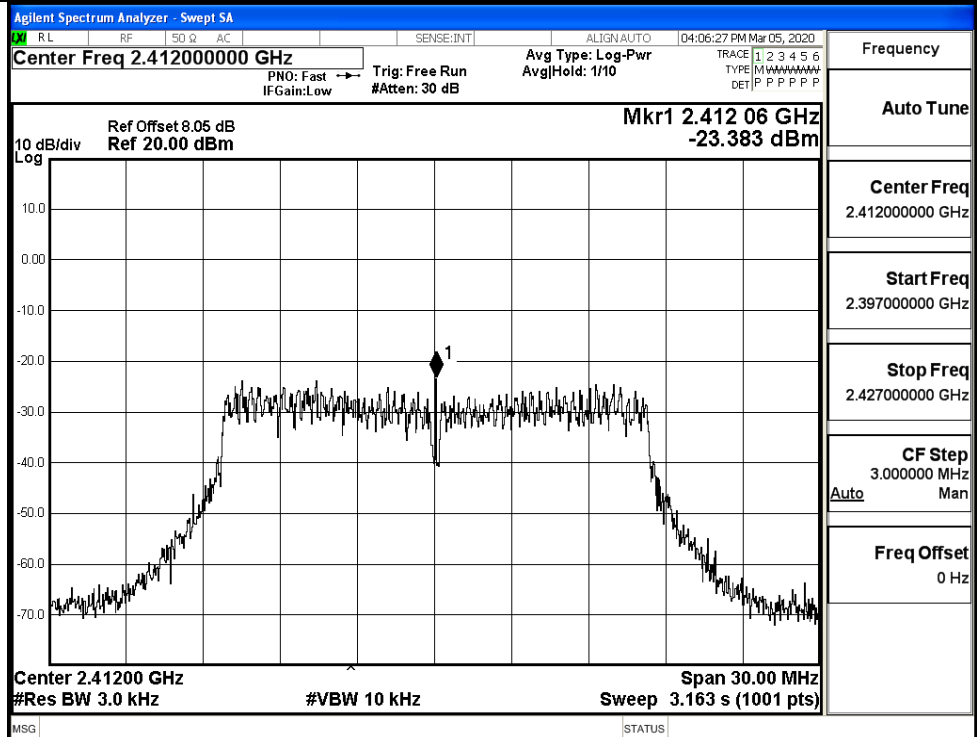
11B/MCH



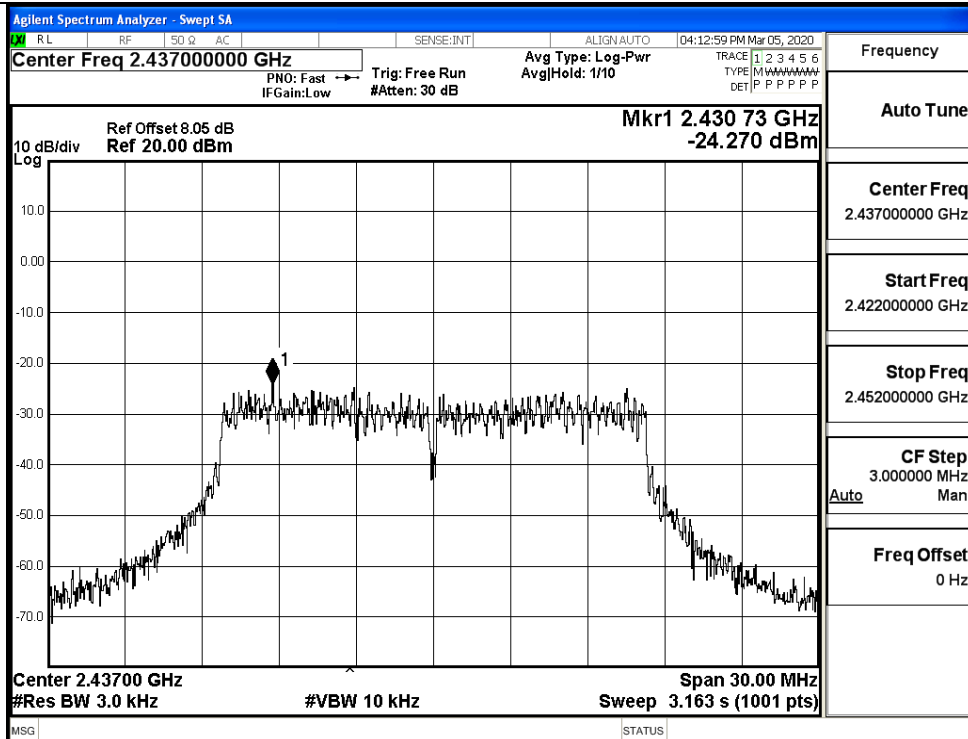
11B/HCH



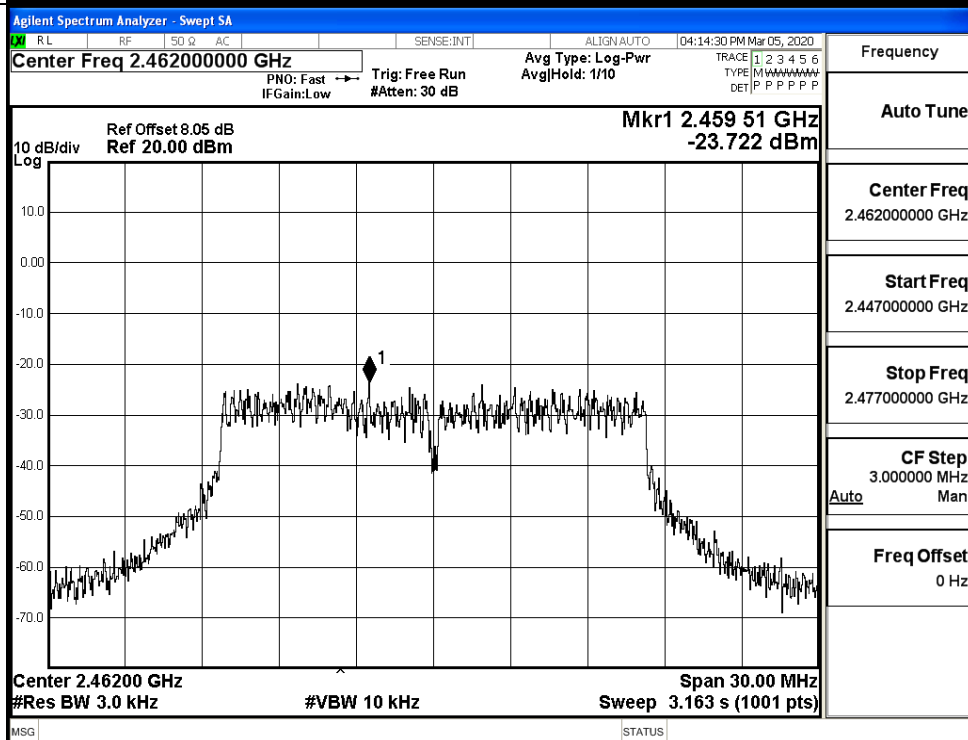
11G/LCH



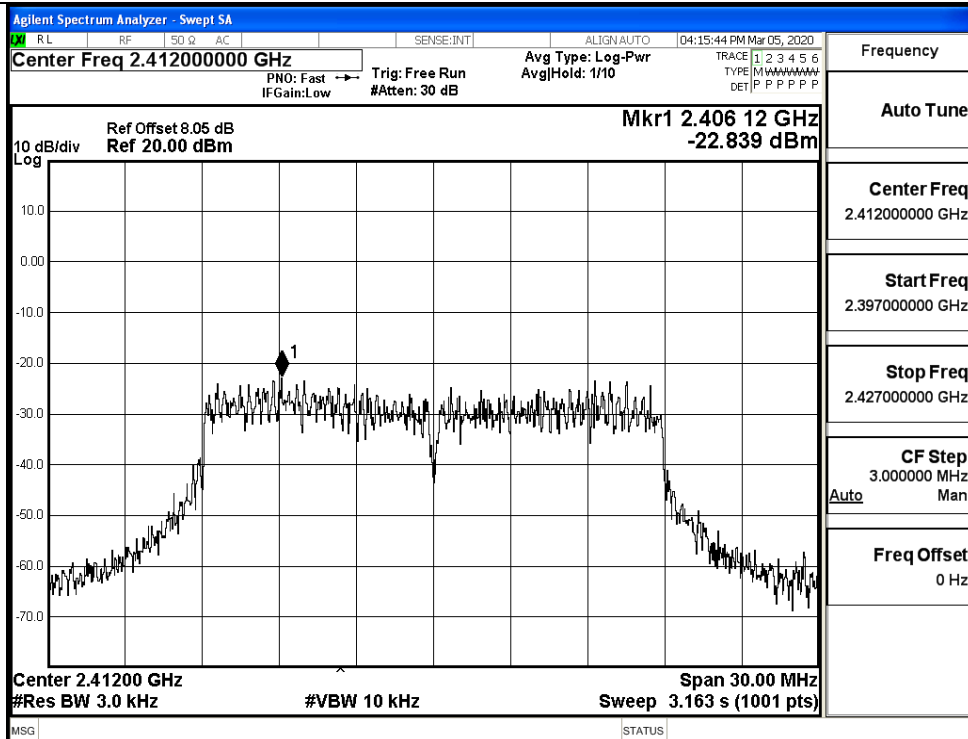
11G/MCH



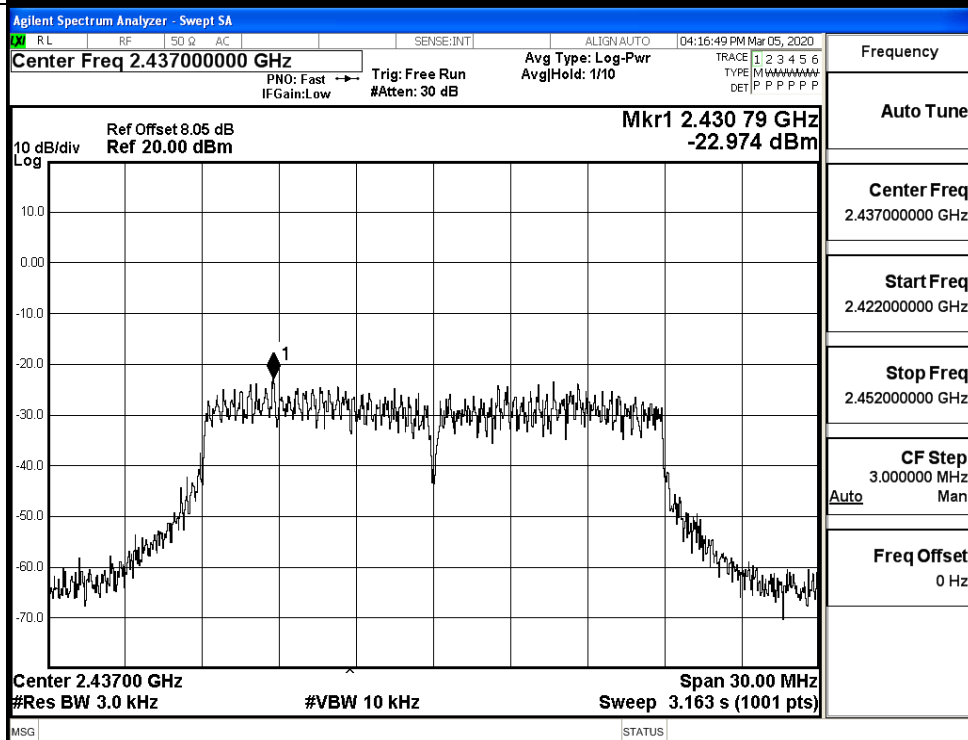
11G/HCH



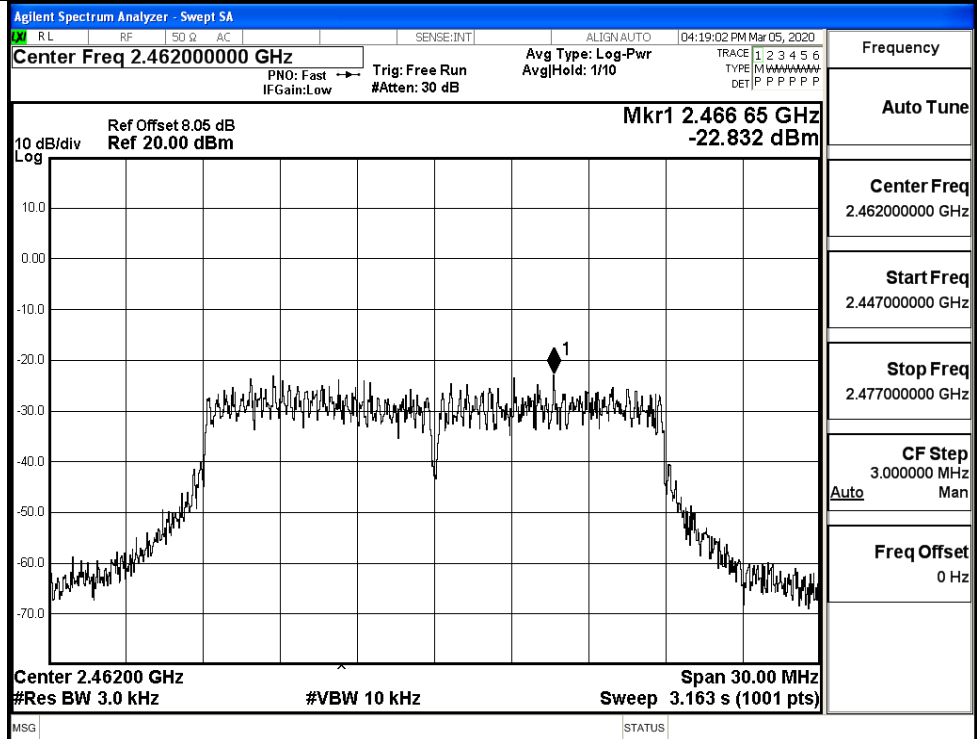
11N20SISO/LCH



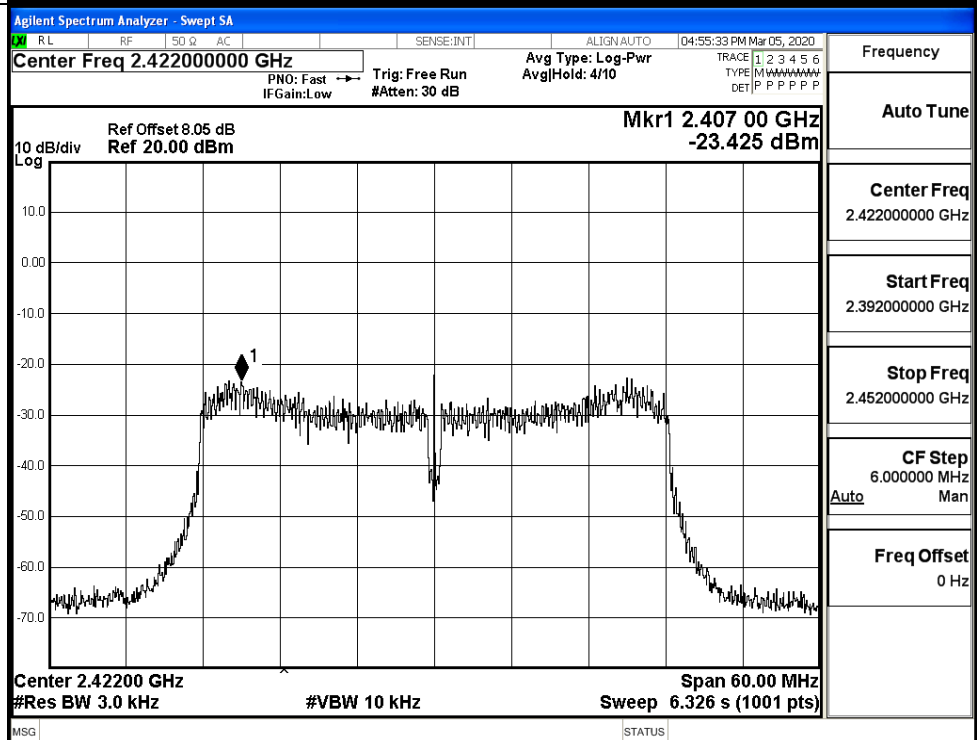
11N20SISO/MCH



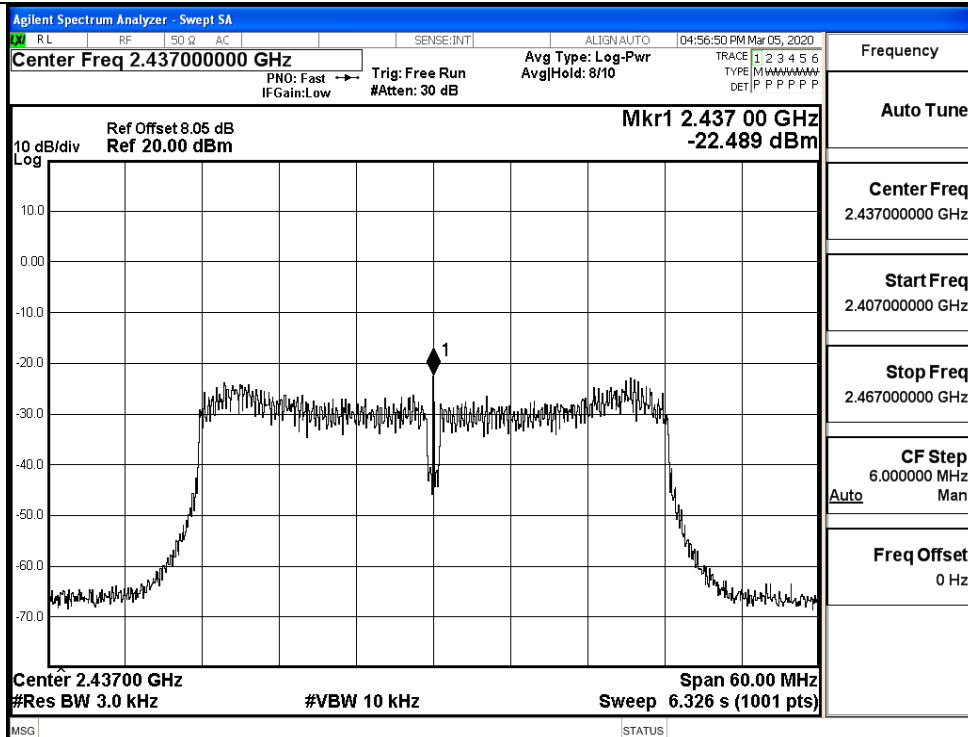
11N20SISO/HCH



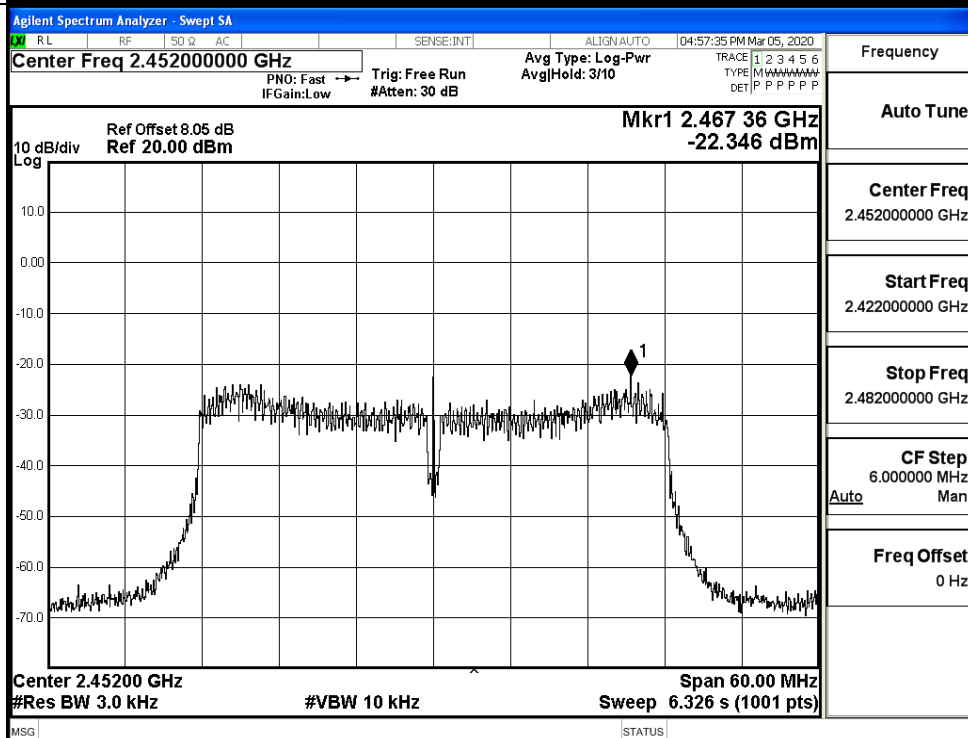
11N40SISO/LCH



11N40SISO/MCH



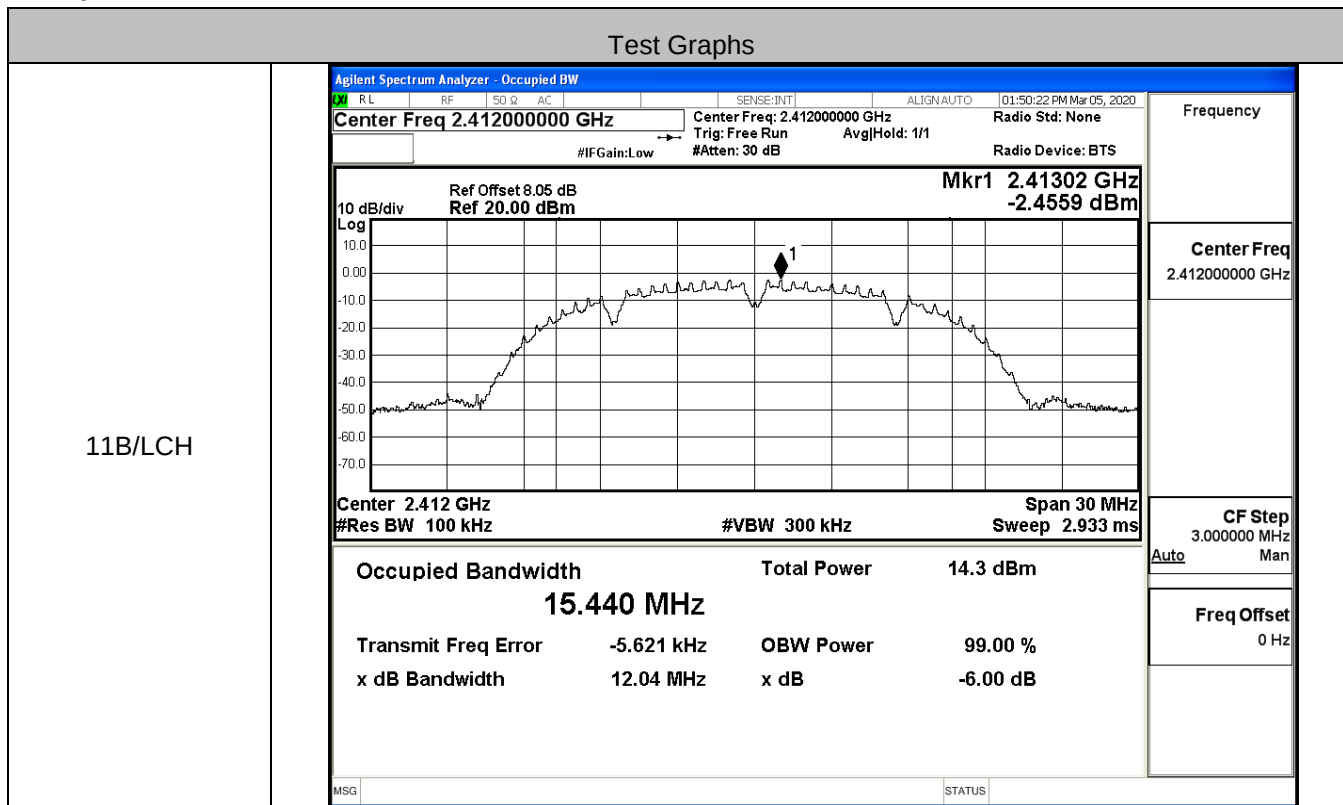
11N40SISO/HCH



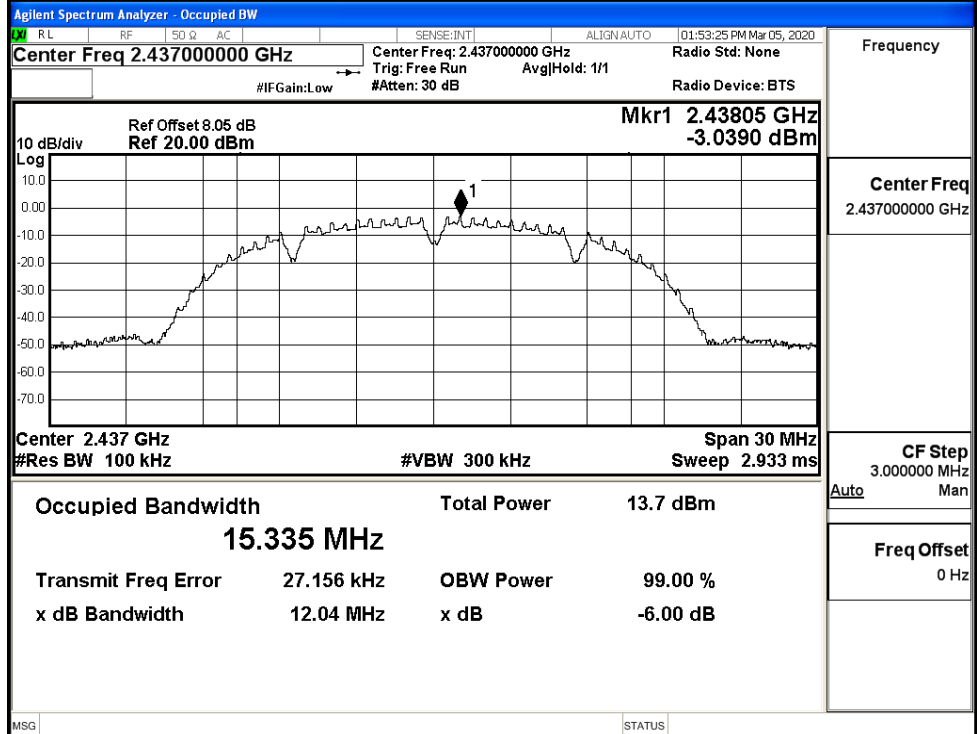
C.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]		Limit [MHz]	Verdict
		ANT0	ANT1		
11B	LCH	12.04	11.09	≥ 0.5	PASS
	MCH	12.04	10.14	≥ 0.5	PASS
	HCH	11.10	10.13	≥ 0.5	PASS
11G	LCH	16.38	16.36	≥ 0.5	PASS
	MCH	16.38	16.38	≥ 0.5	PASS
	HCH	16.37	16.39	≥ 0.5	PASS
11N20	LCH	17.32	17.57	≥ 0.5	PASS
	MCH	17.32	17.38	≥ 0.5	PASS
	HCH	17.32	17.53	≥ 0.5	PASS
11N40	LCH	35.18	35.20	≥ 0.5	PASS
	MCH	35.09	35.18	≥ 0.5	PASS
	HCH	35.03	35.12	≥ 0.5	PASS

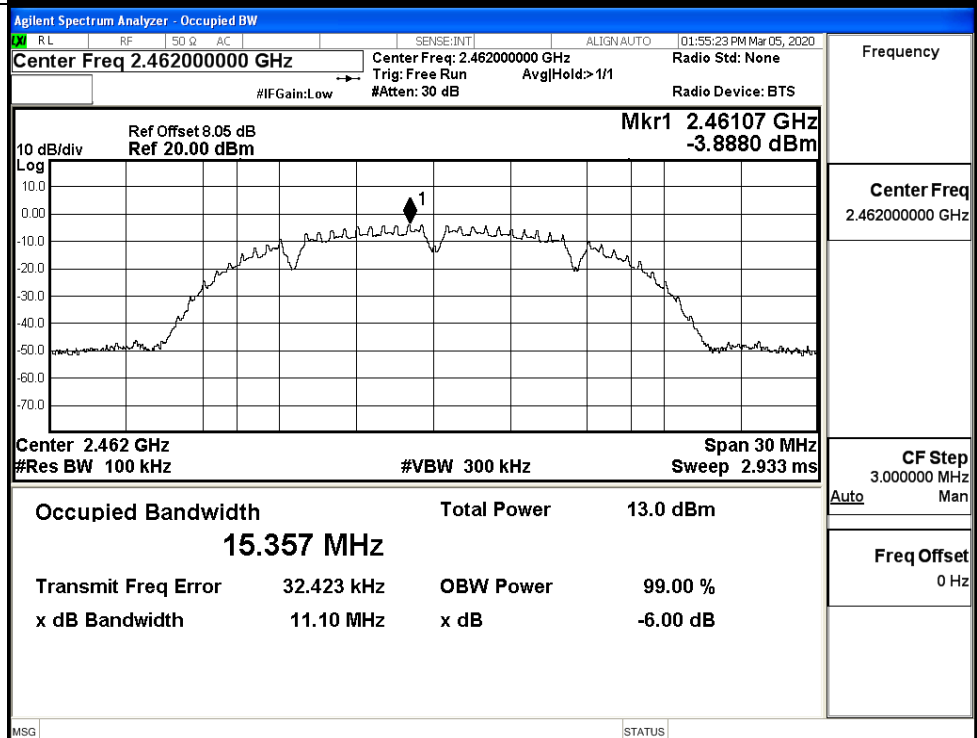
ANT0



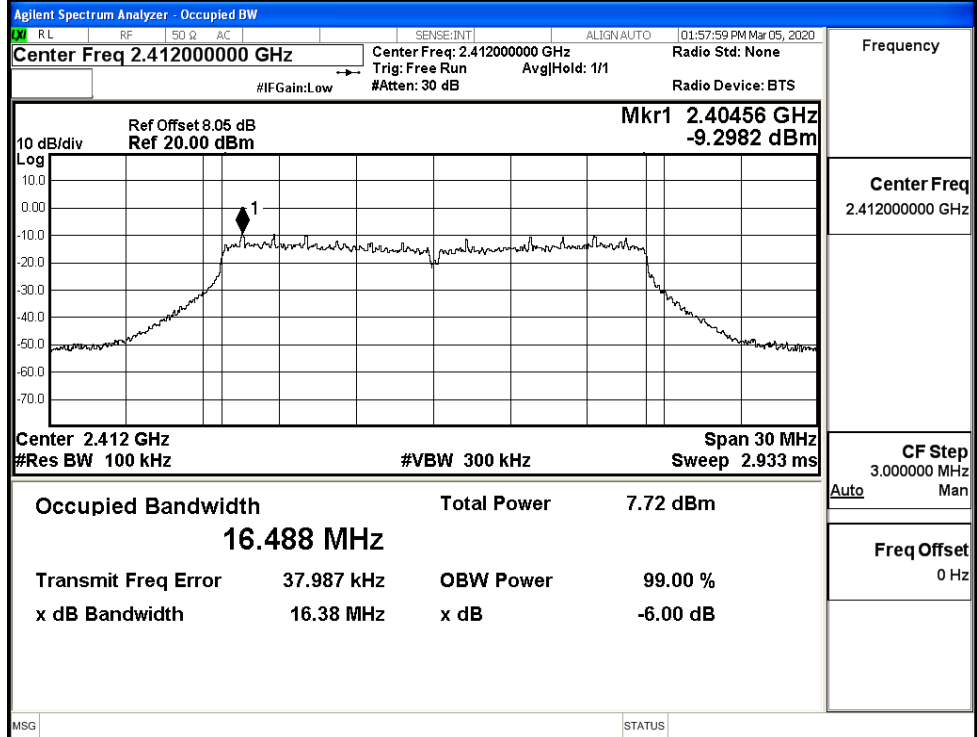
11B/MCH



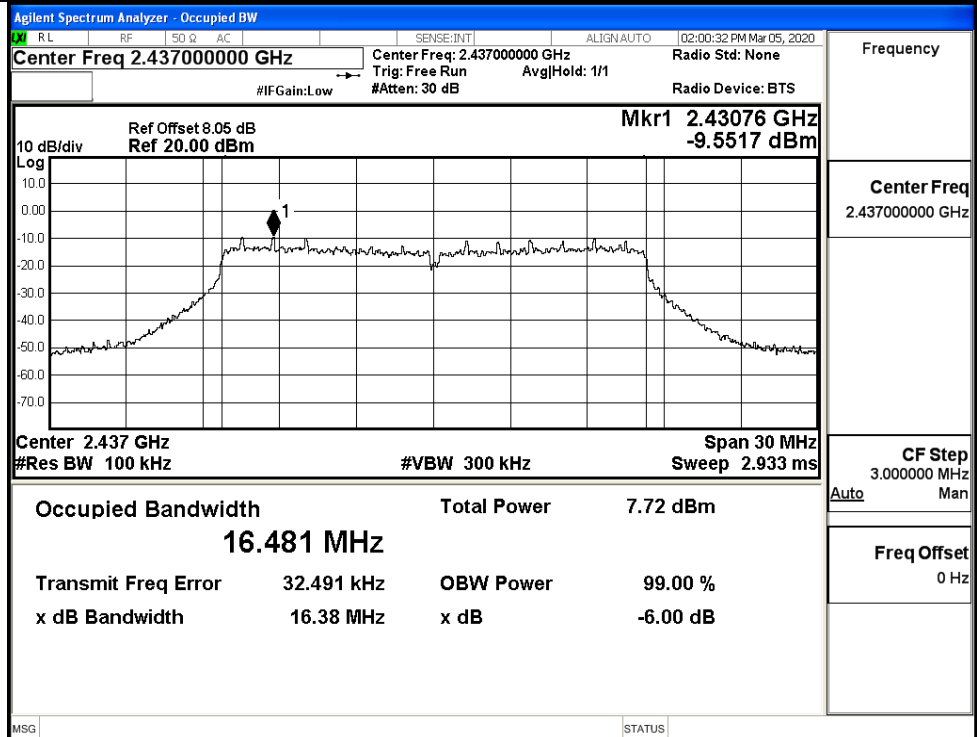
11B/HCH



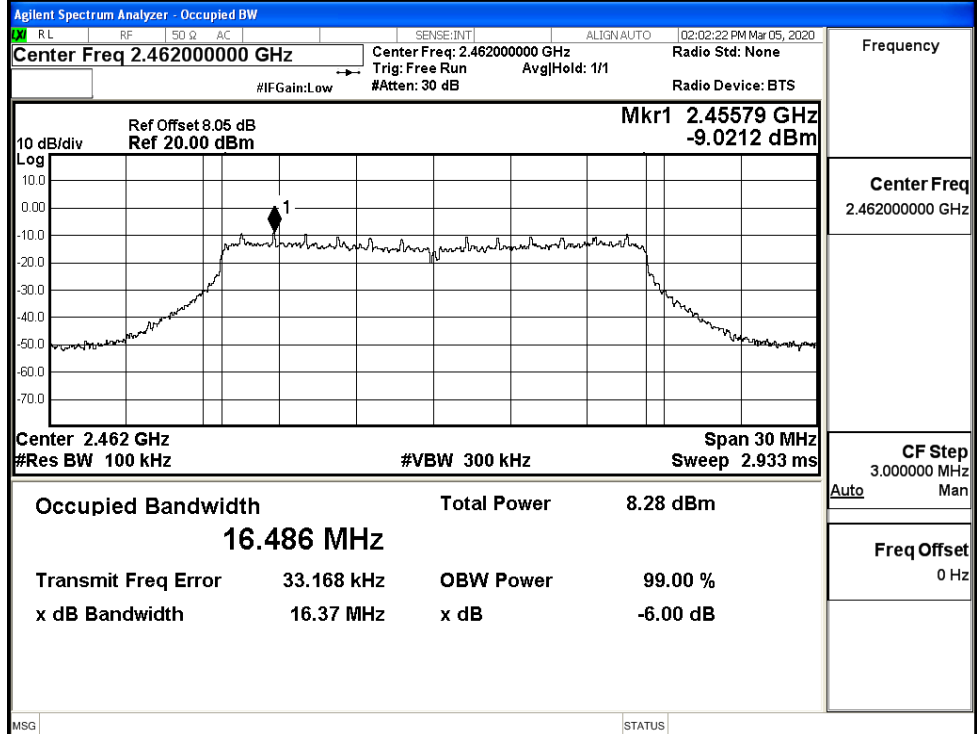
11G/LCH



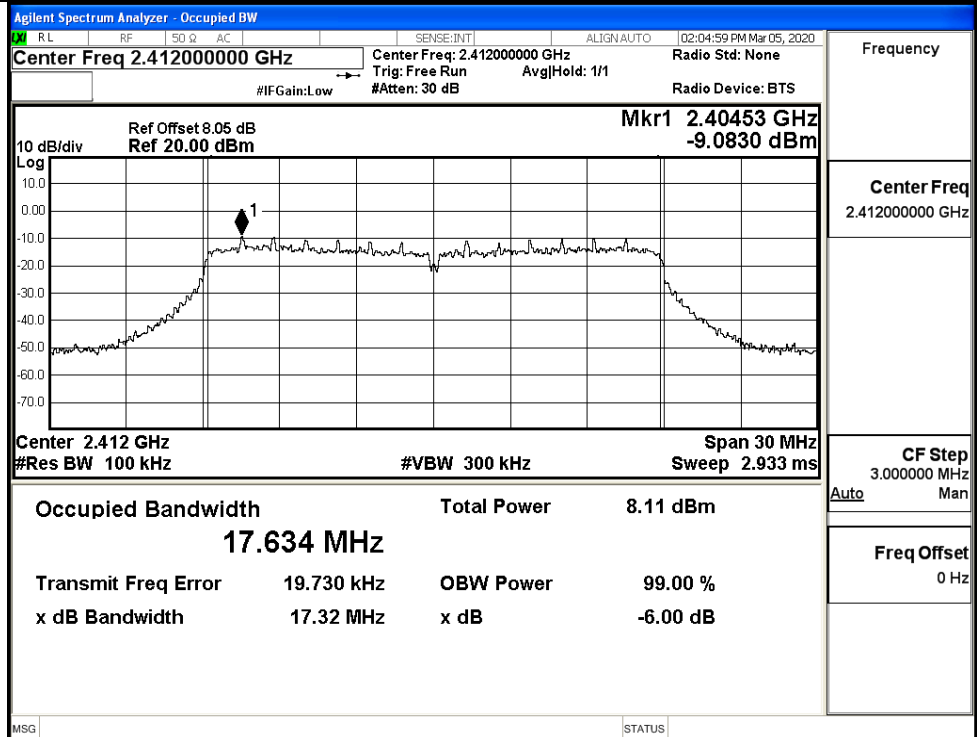
11G/MCH



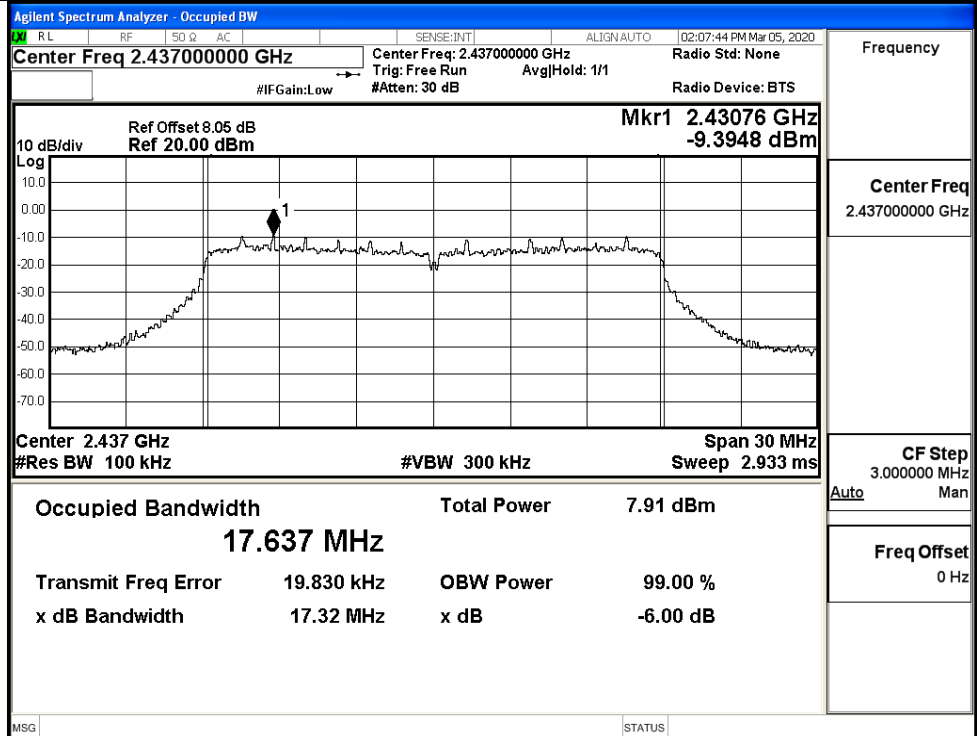
11G/HCH



11N20SISO/LCH



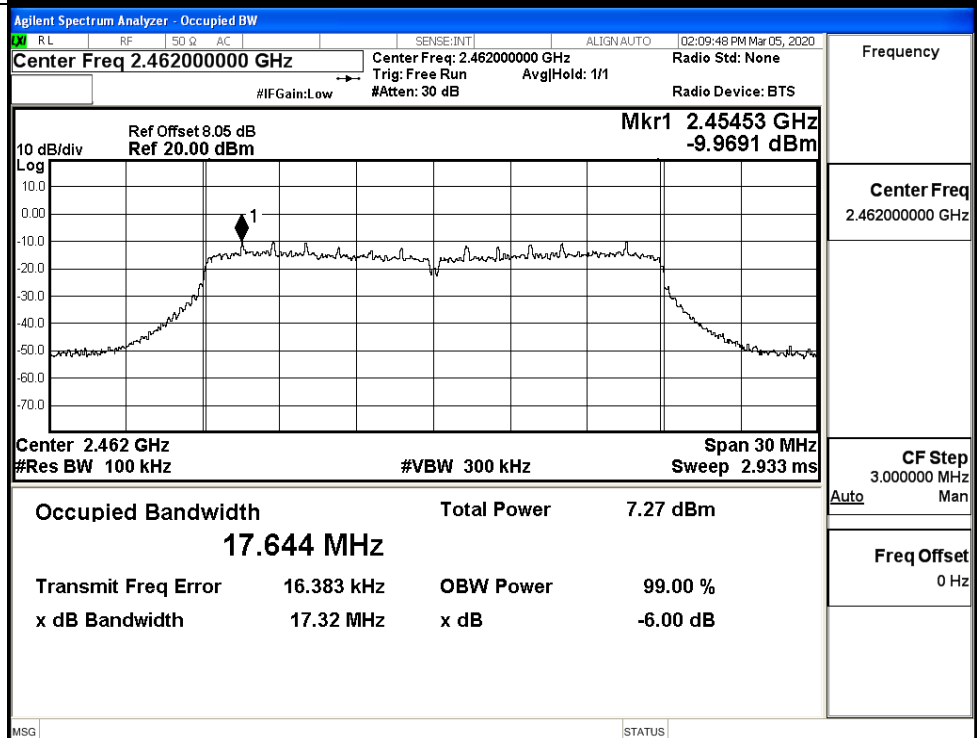
11N20SISO/MCH



Frequency

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

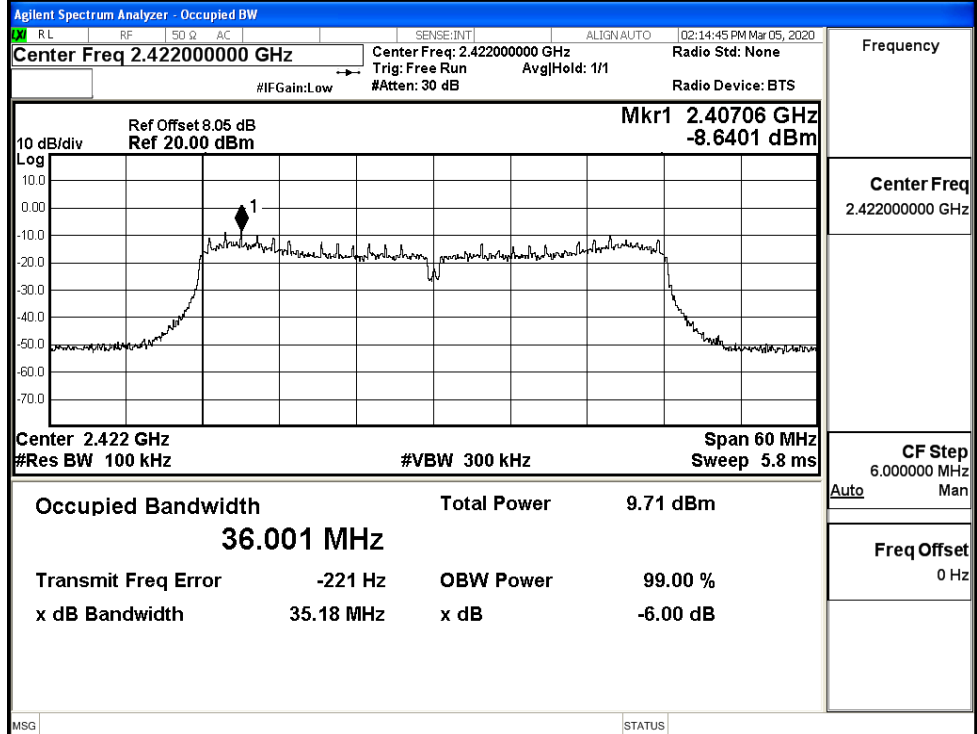
11N20SISO/HCH



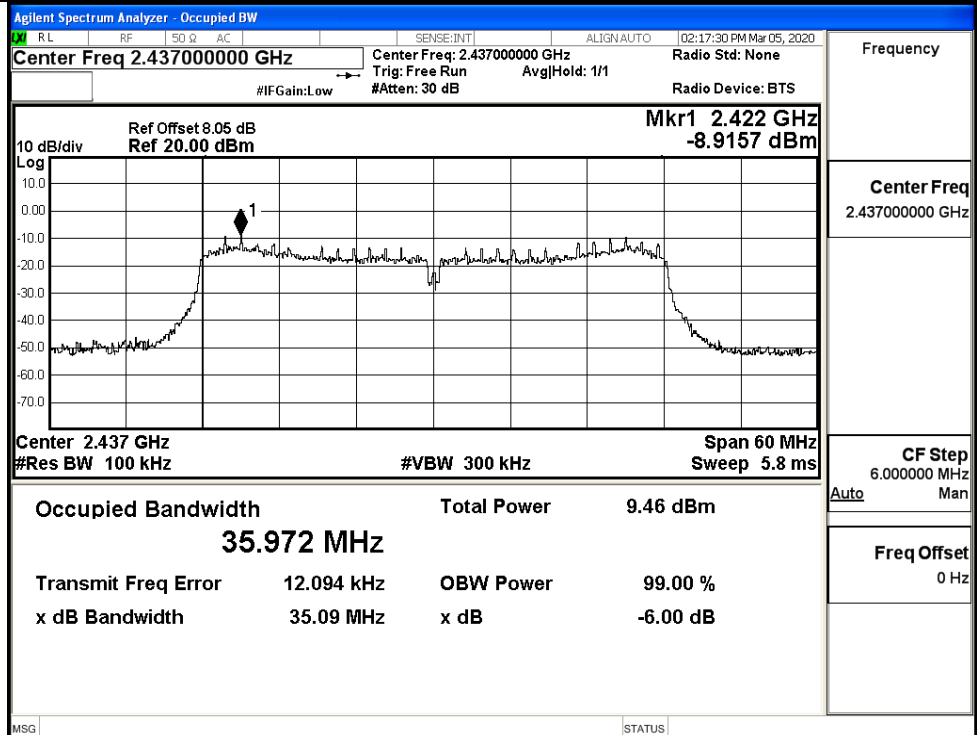
Frequency

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

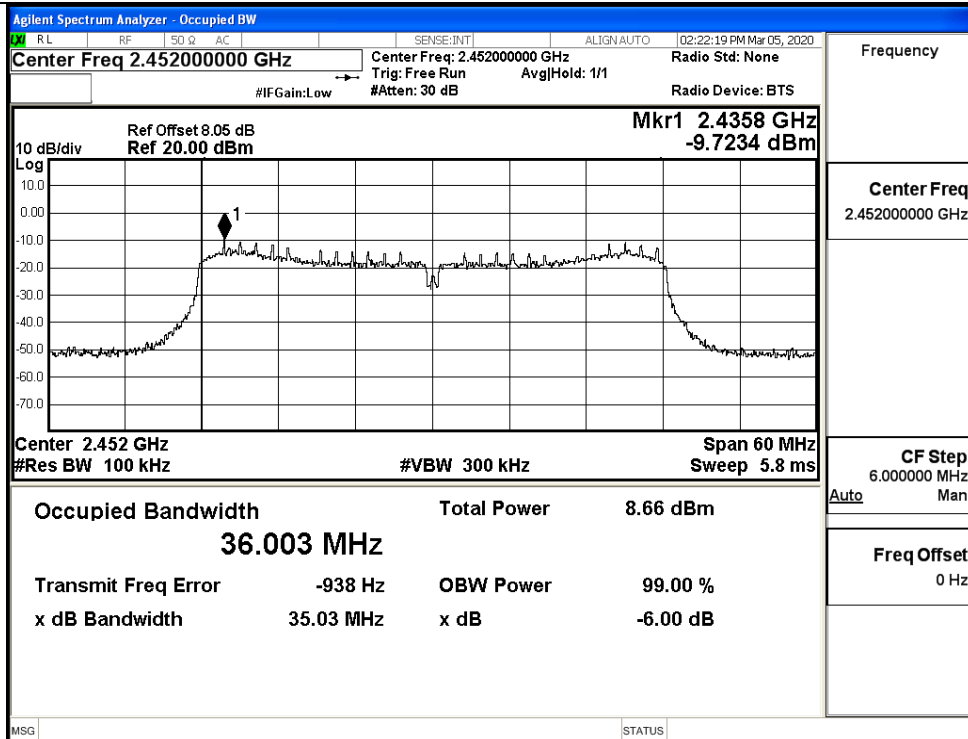
11N40SISO/LCH



11N40SISO/MCH



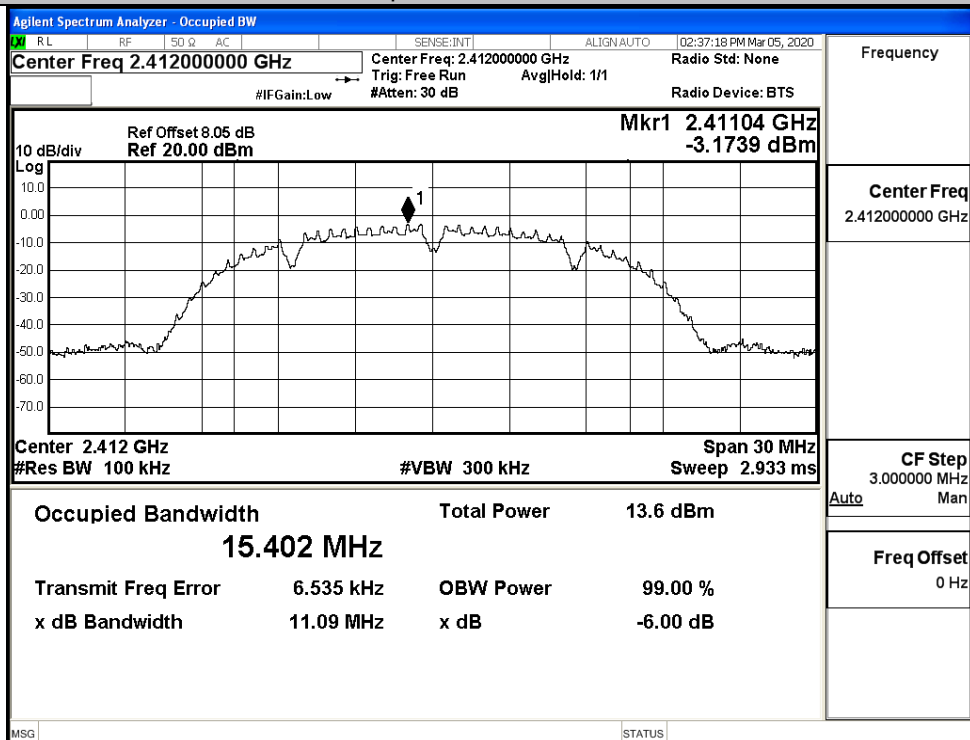
11N40SISO/HCH



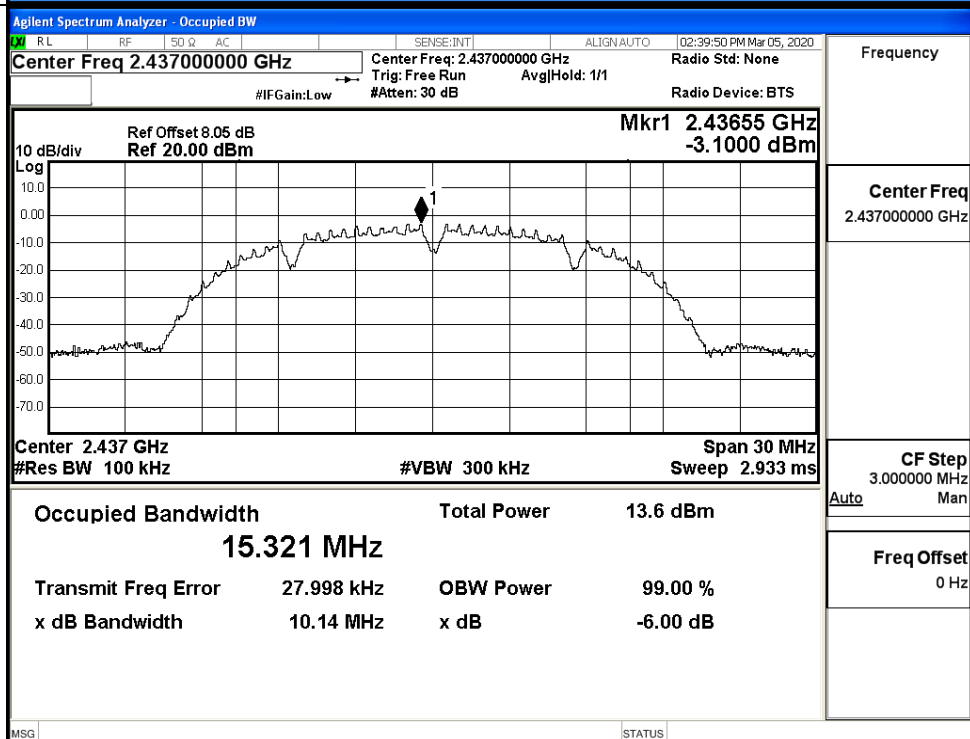
ANT1

Test Graphs

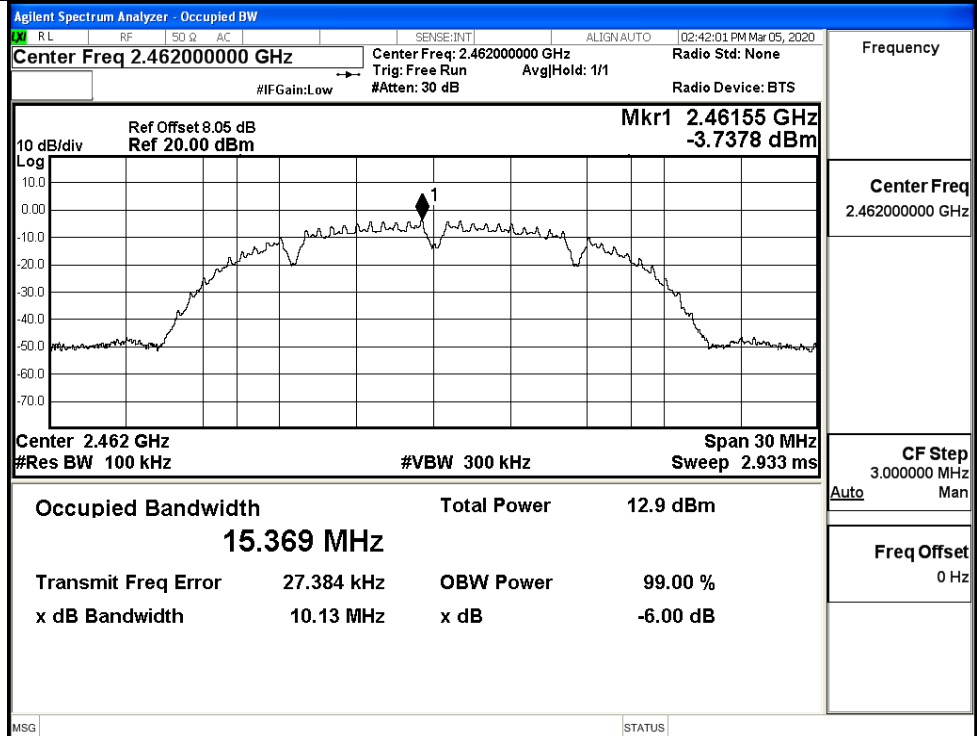
11B/LCH



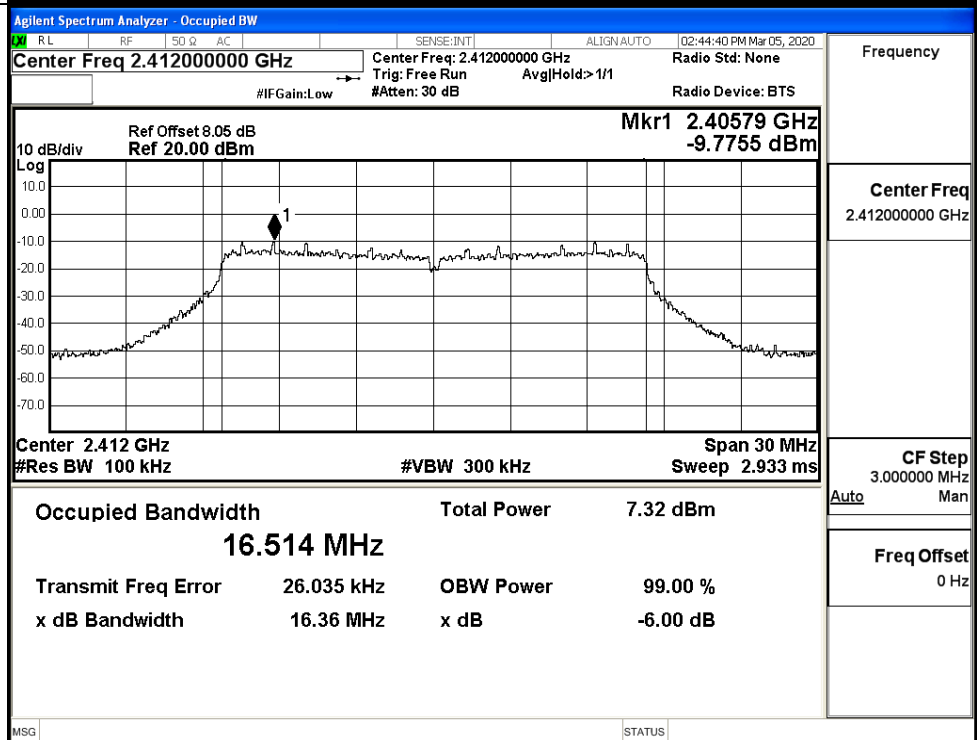
11B/MCH



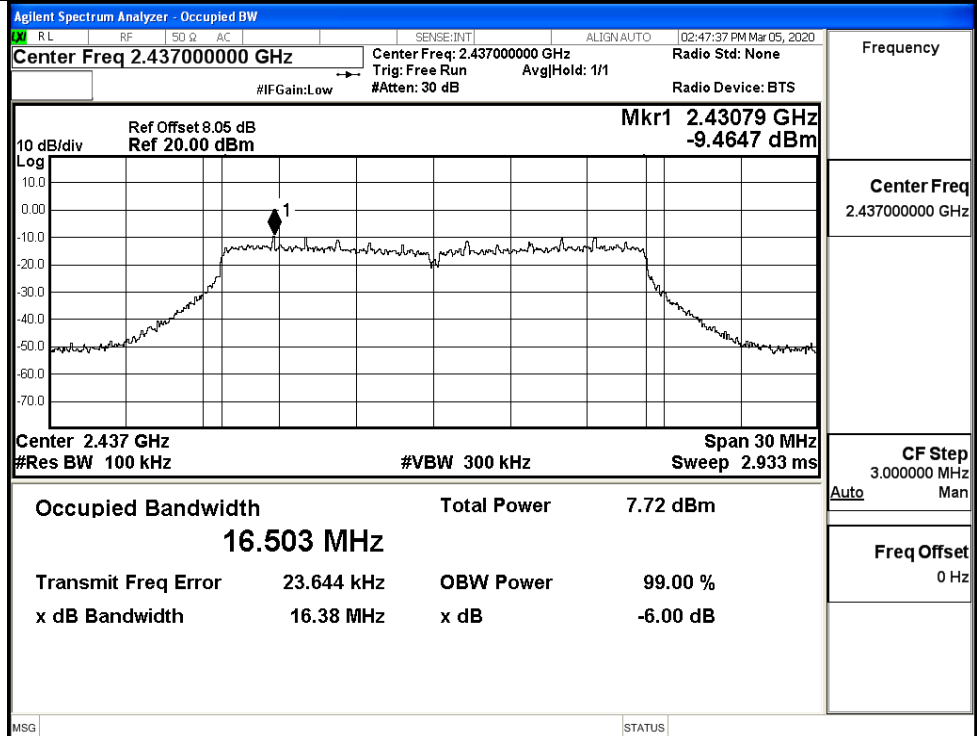
11B/HCH



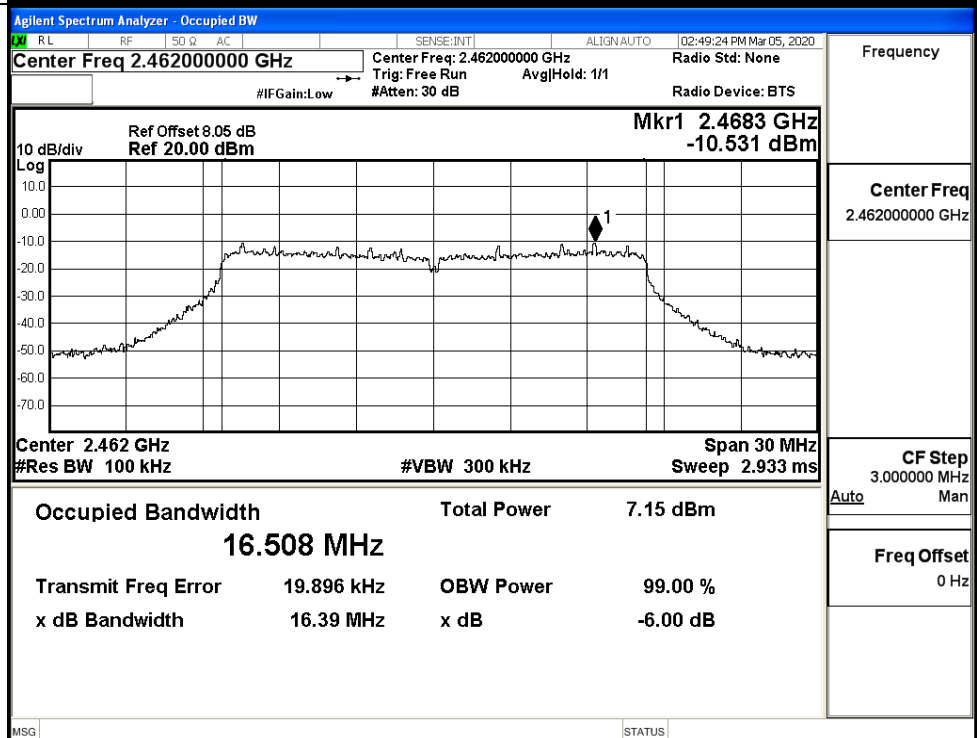
11G/LCH



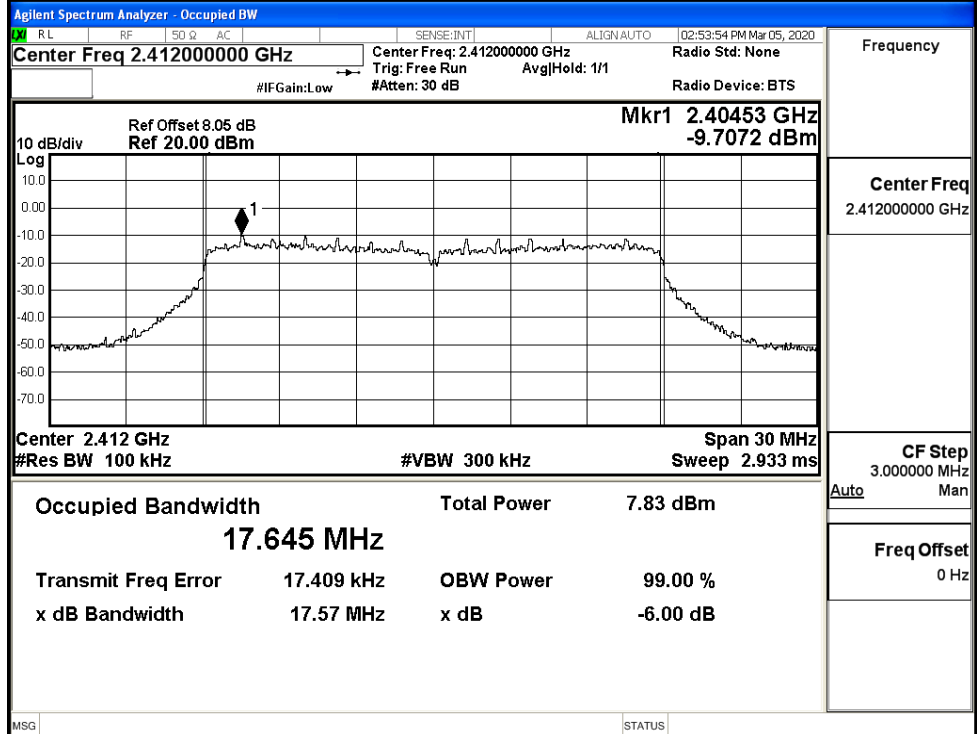
11G/MCH



11G/HCH



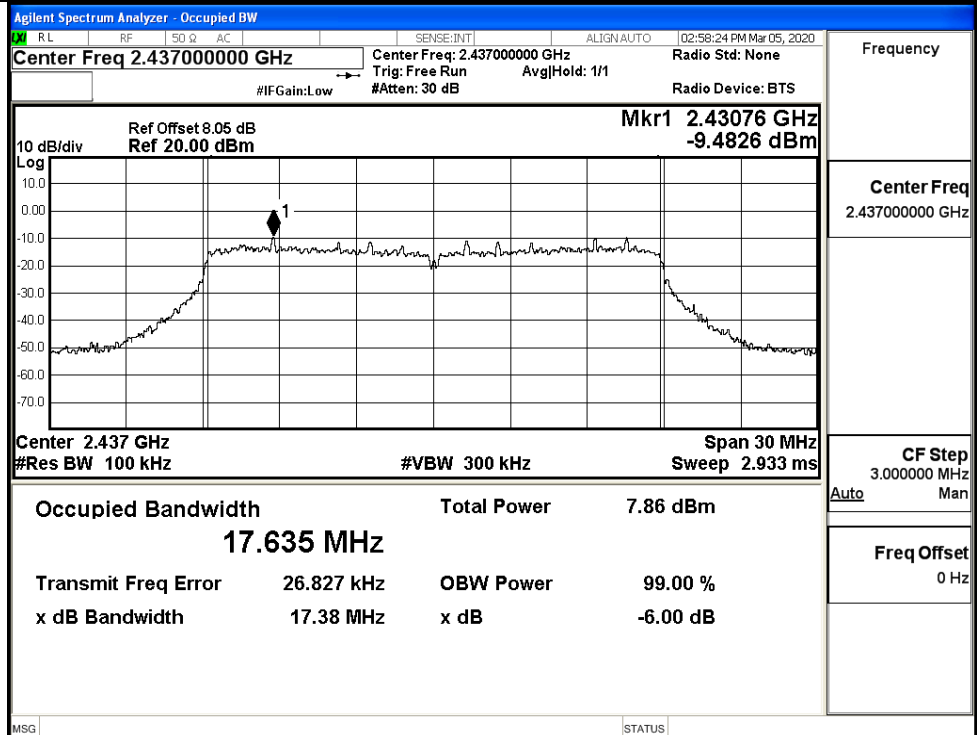
11N20SISO/LCH



Frequency

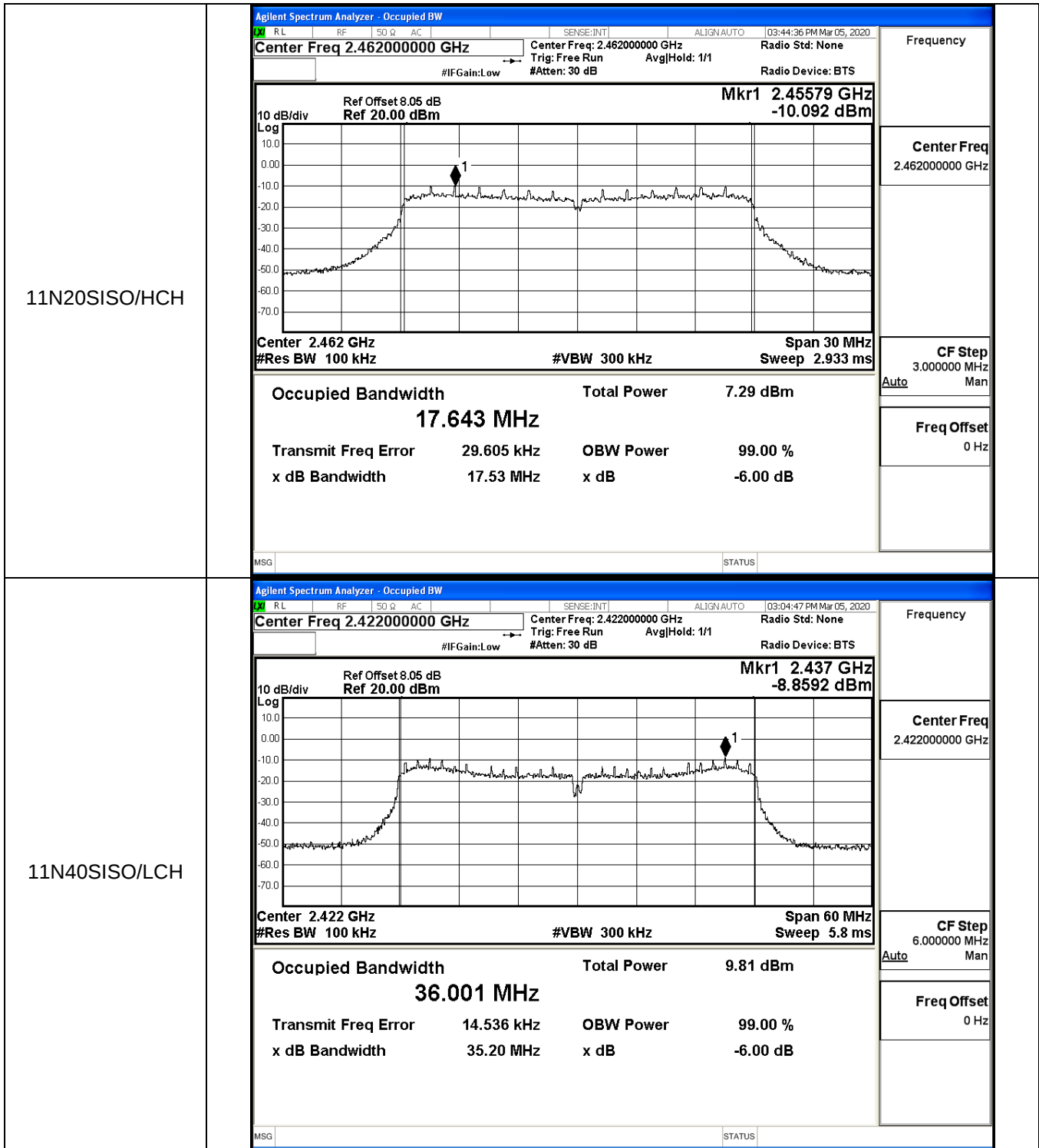
Center Freq
2.41200000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

11N20SISO/MCH

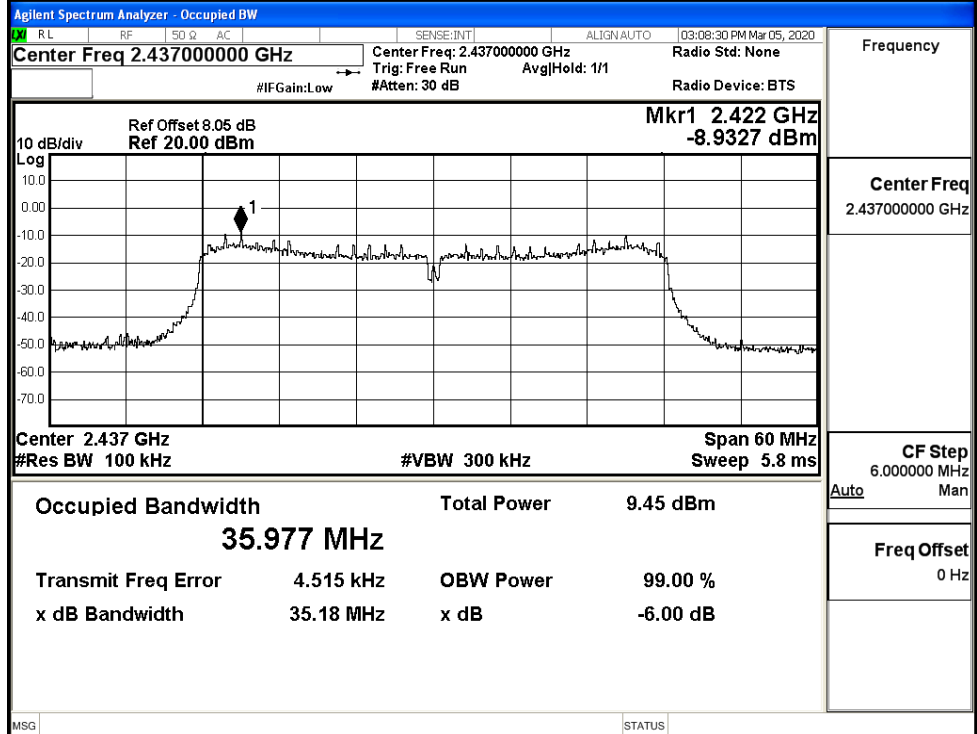


Frequency

Center Freq
2.43700000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz



11N40SISO/MCH



11N40SISO/HCH

