

Appendix RF test data for WIFI2.4G

1. Duty Cycle

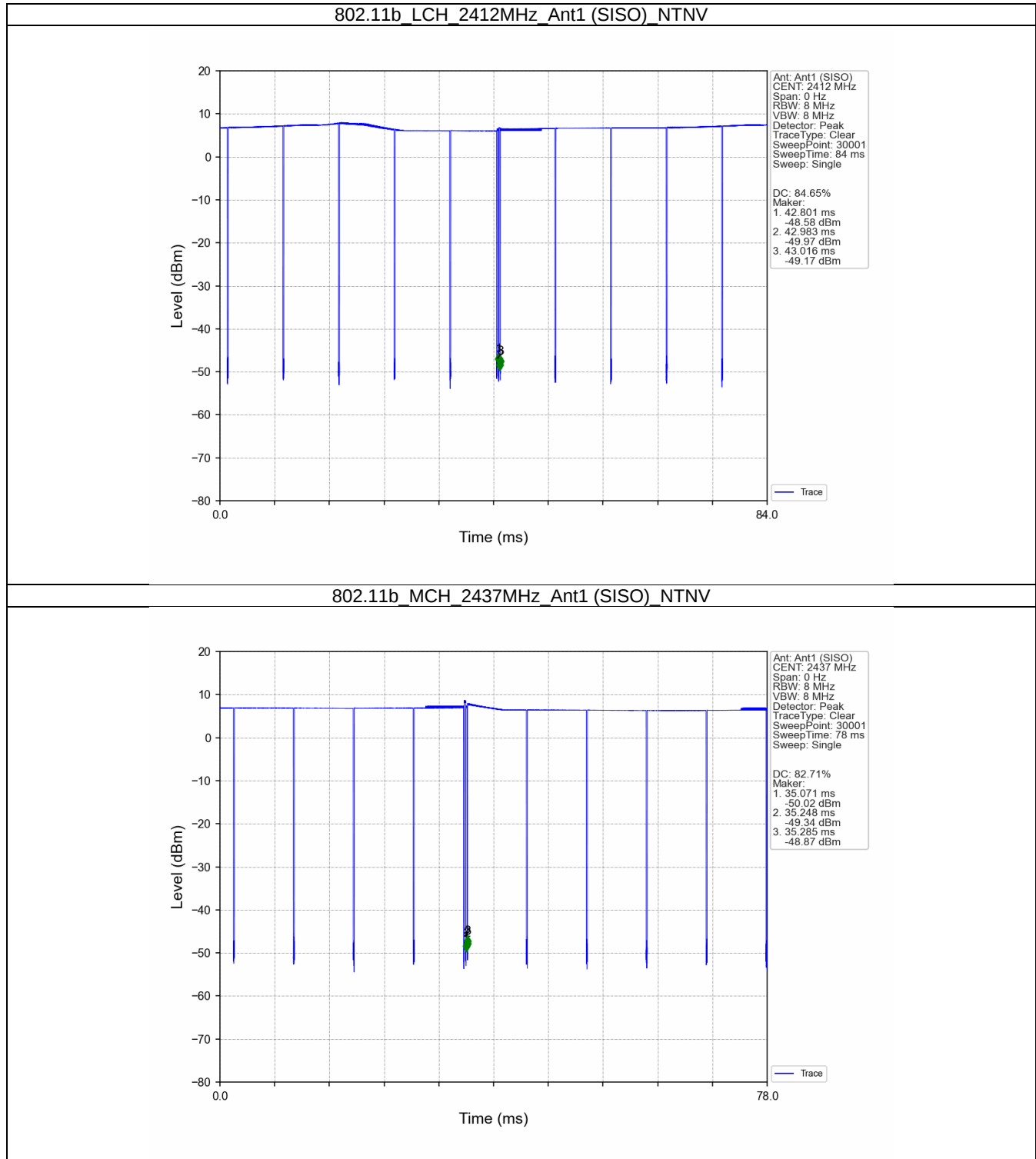
1.1 Test Result

1.1.1 Ant1

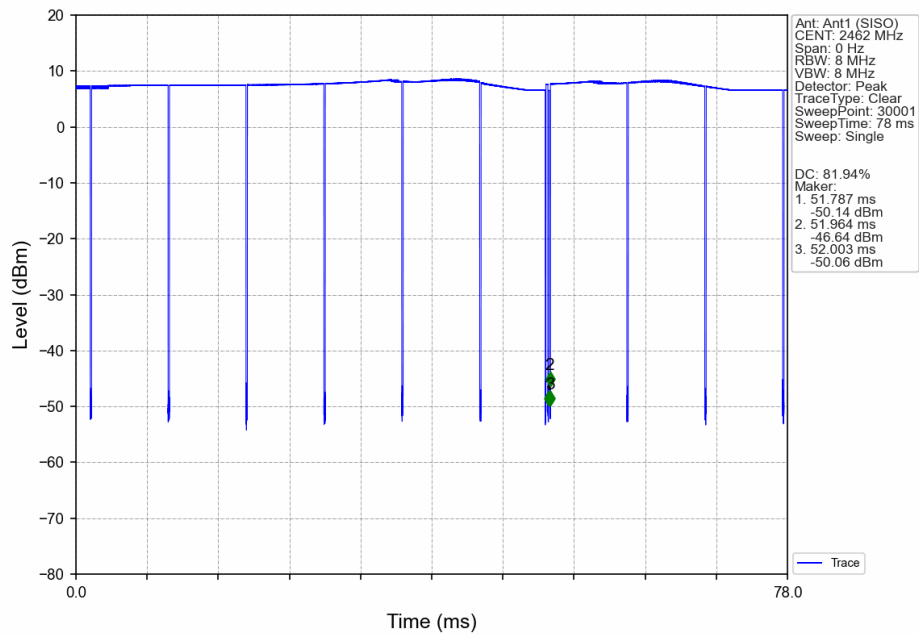
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	0.182	0.215	84.65	0.72	12.78
		2437	0.177	0.214	82.71	0.82	14.33
		2462	0.177	0.216	81.94	0.86	15.34
802.11g	SISO	2412	1.394	1.518	91.83	0.37	0.03
		2437	1.394	1.518	91.83	0.37	2.23
		2462	1.394	1.518	91.83	0.37	0.03
802.11n (HT20)	SISO	2412	1.302	1.425	91.37	0.39	0.03
		2437	1.302	1.425	91.37	0.39	0.03
		2462	1.302	1.425	91.37	0.39	0.03
802.11n (HT40)	SISO	2422	0.649	0.773	83.96	0.76	0.03
		2437	0.649	0.773	83.96	0.76	0.03
		2452	0.649	0.773	83.96	0.76	0.03

1.2 Test Graph

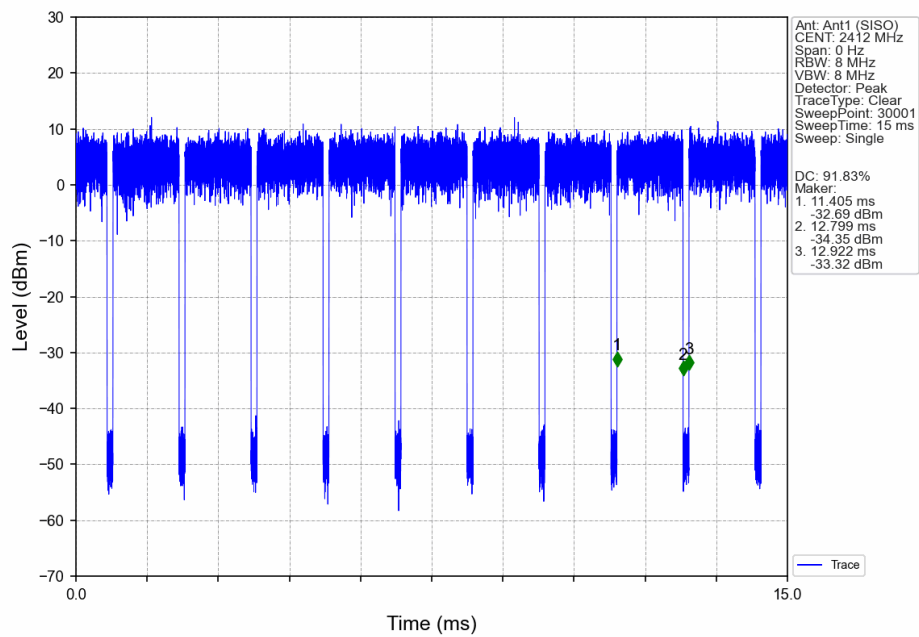
1.2.1 Ant1



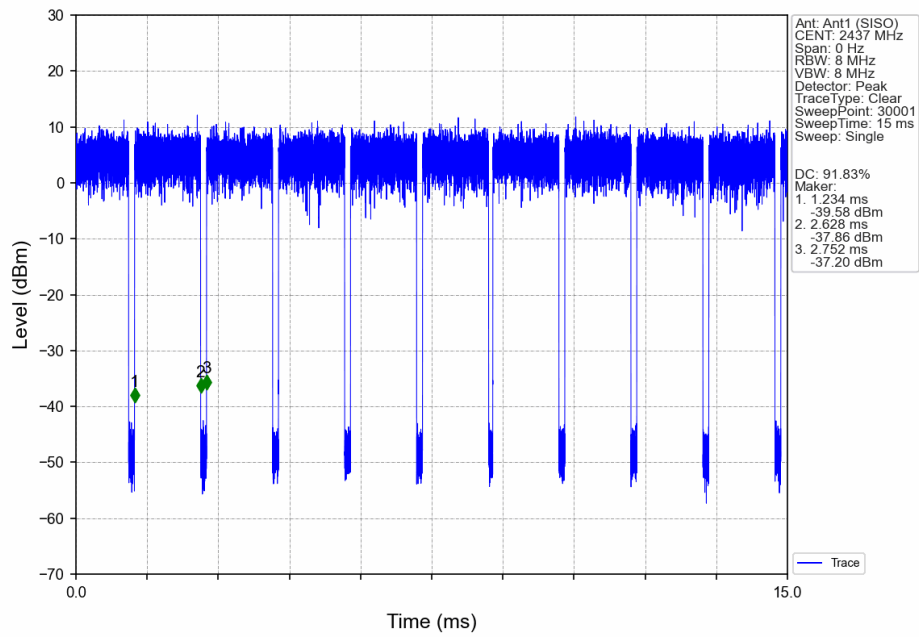
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



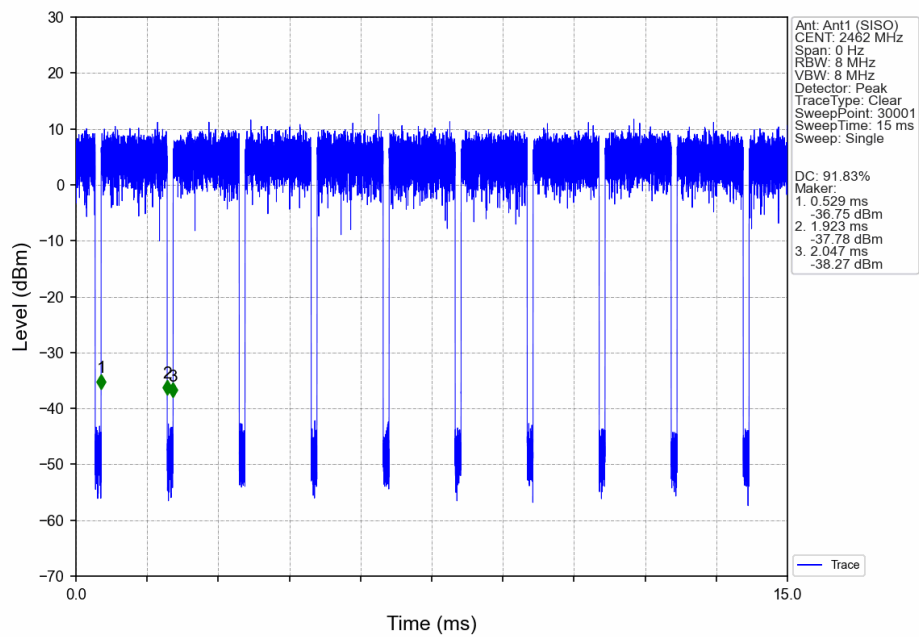
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



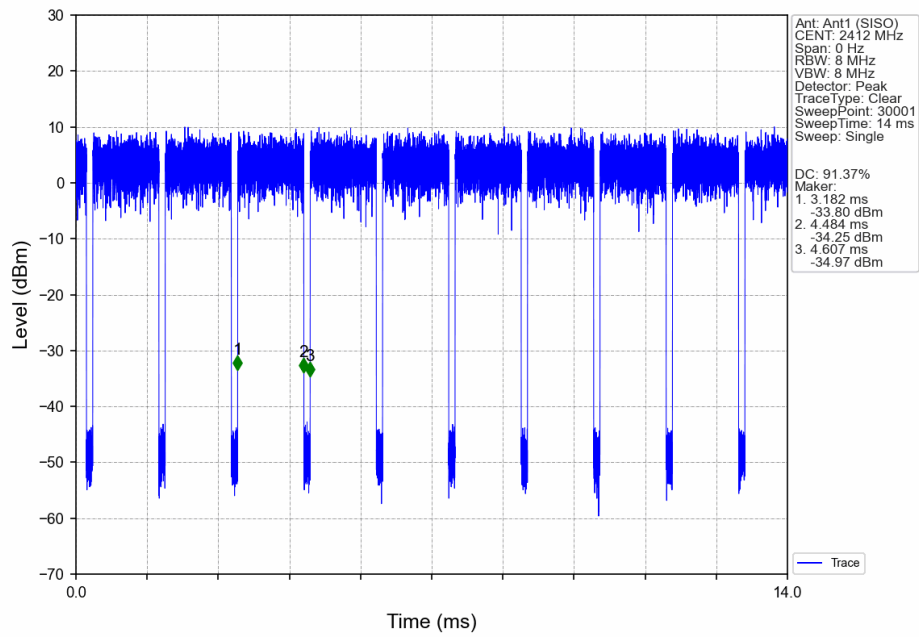
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



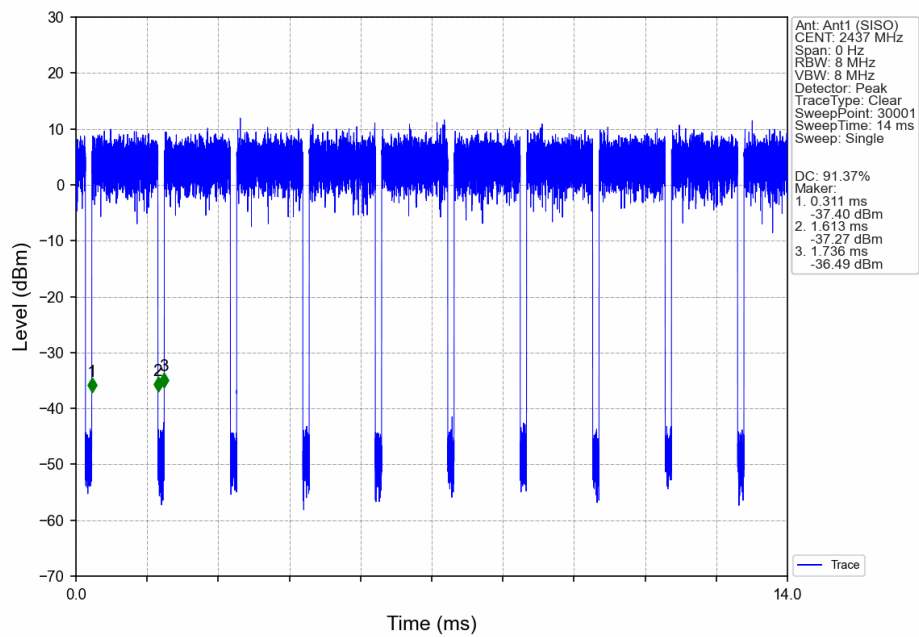
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



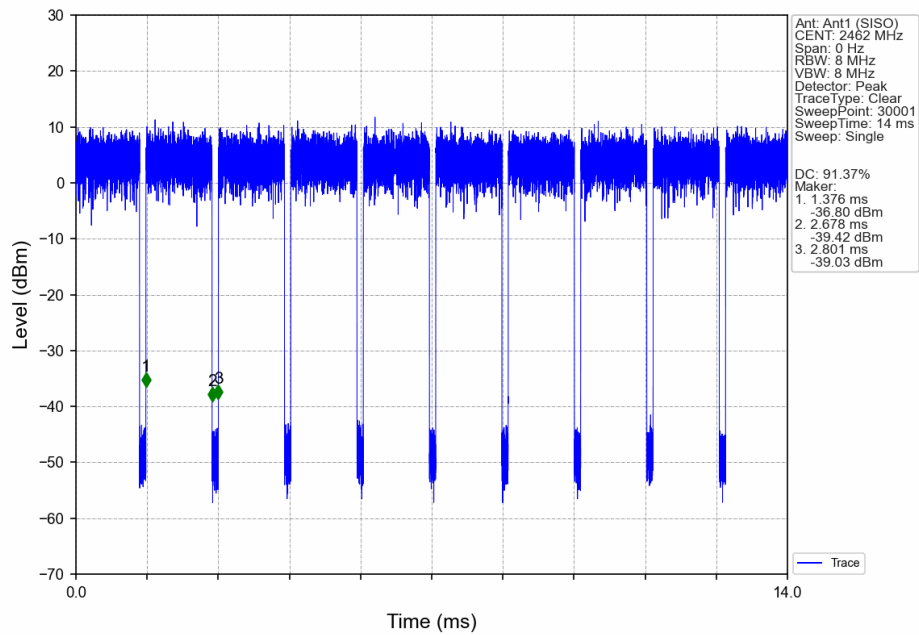
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



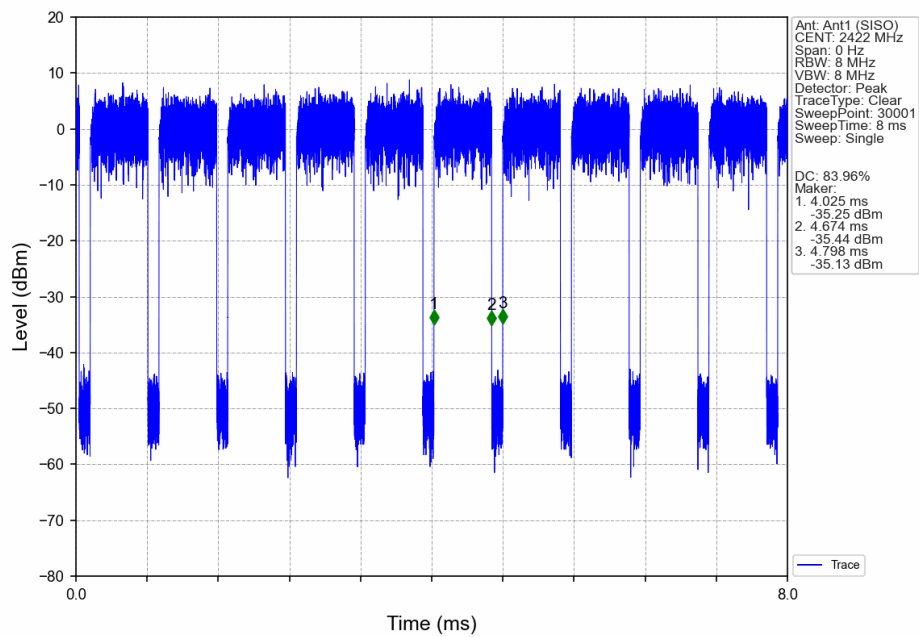
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



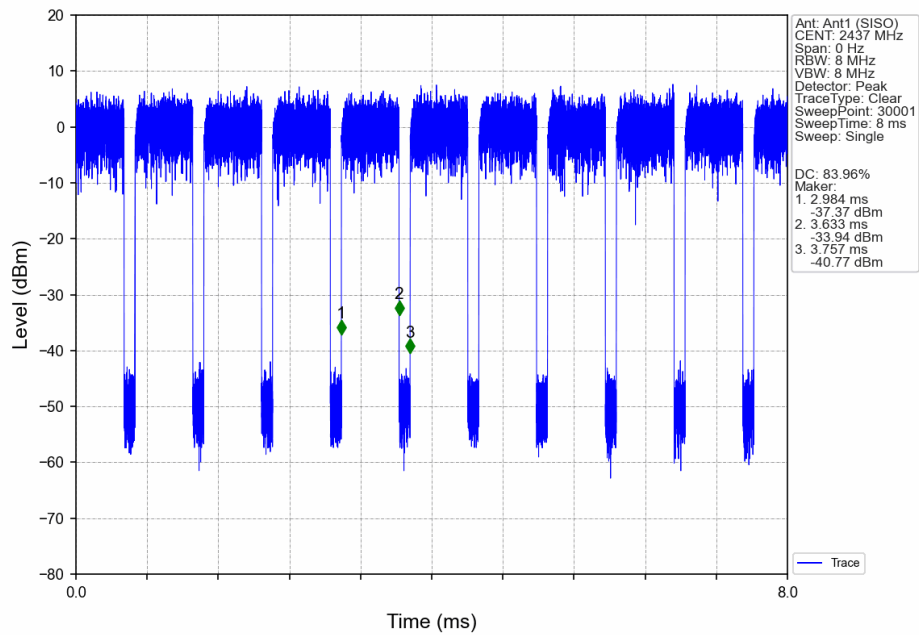
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



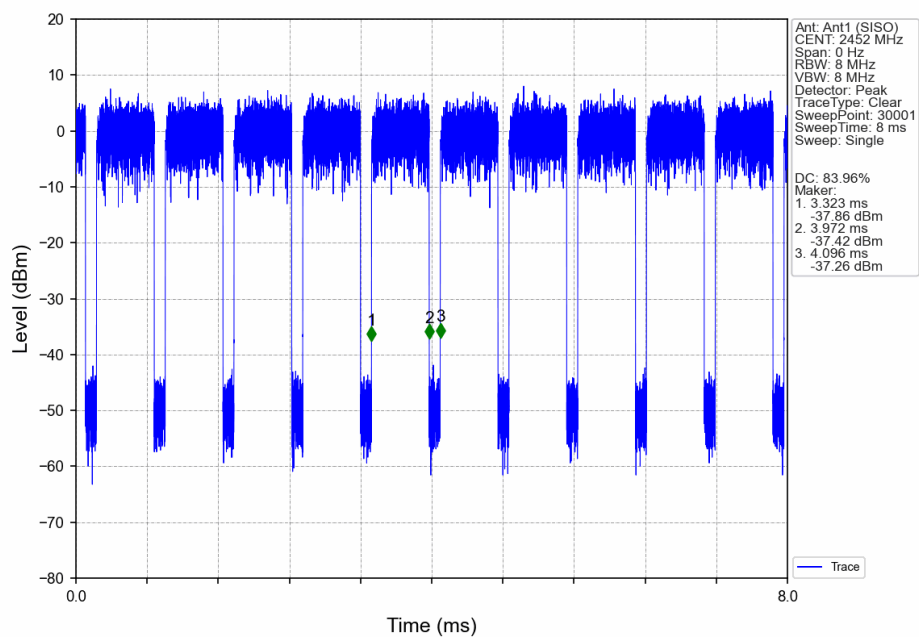
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

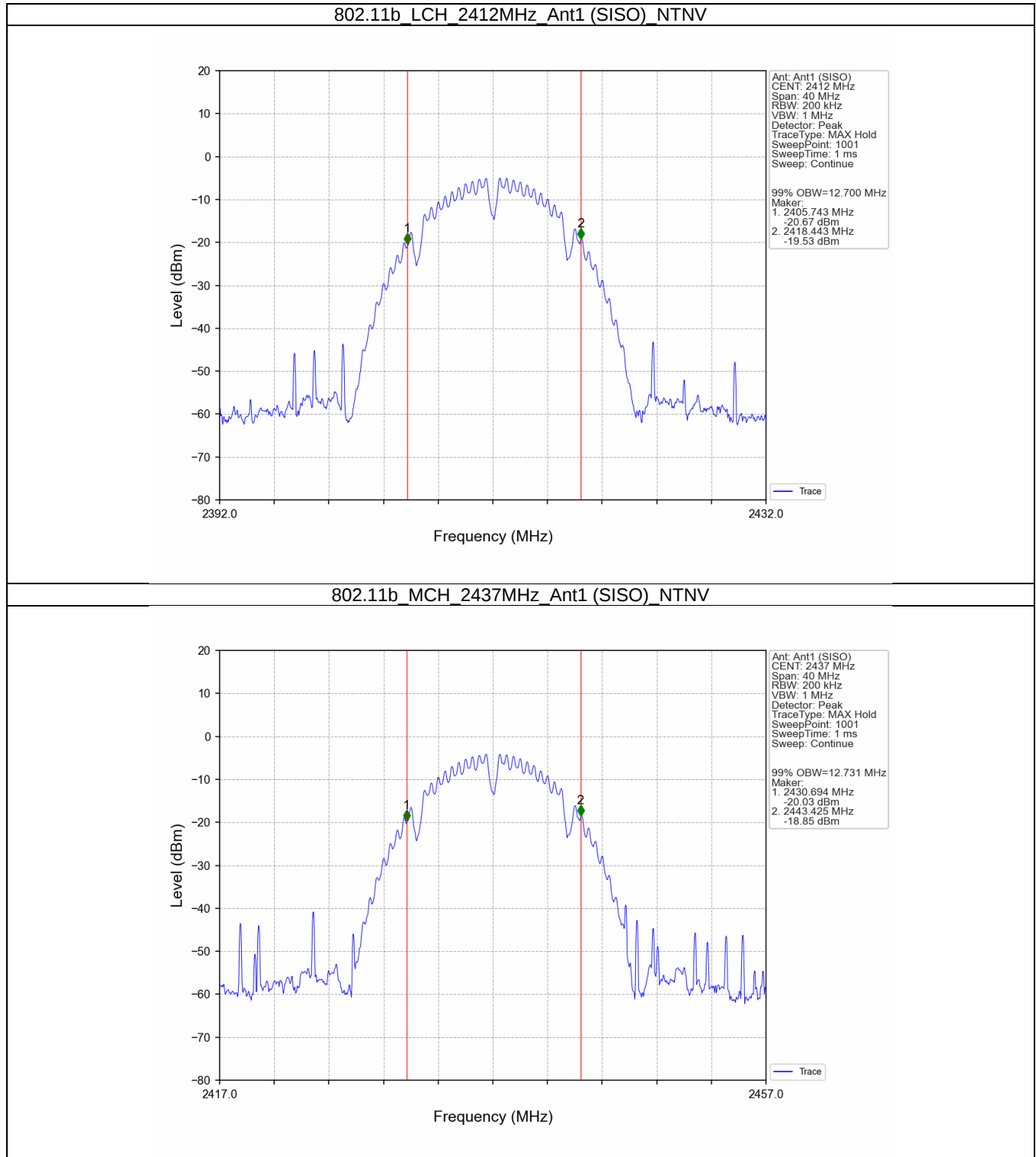
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.700	/	Pass
		2437	1	12.731	/	Pass
		2462	1	12.707	/	Pass
802.11g	SISO	2412	1	16.475	/	Pass
		2437	1	16.484	/	Pass
		2462	1	16.387	/	Pass
802.11n (HT20)	SISO	2412	1	17.571	/	Pass
		2437	1	17.570	/	Pass
		2462	1	17.503	/	Pass
802.11n (HT40)	SISO	2422	1	36.043	/	Pass
		2437	1	36.569	/	Pass
		2452	1	36.602	/	Pass

2.1.2 6dB BW

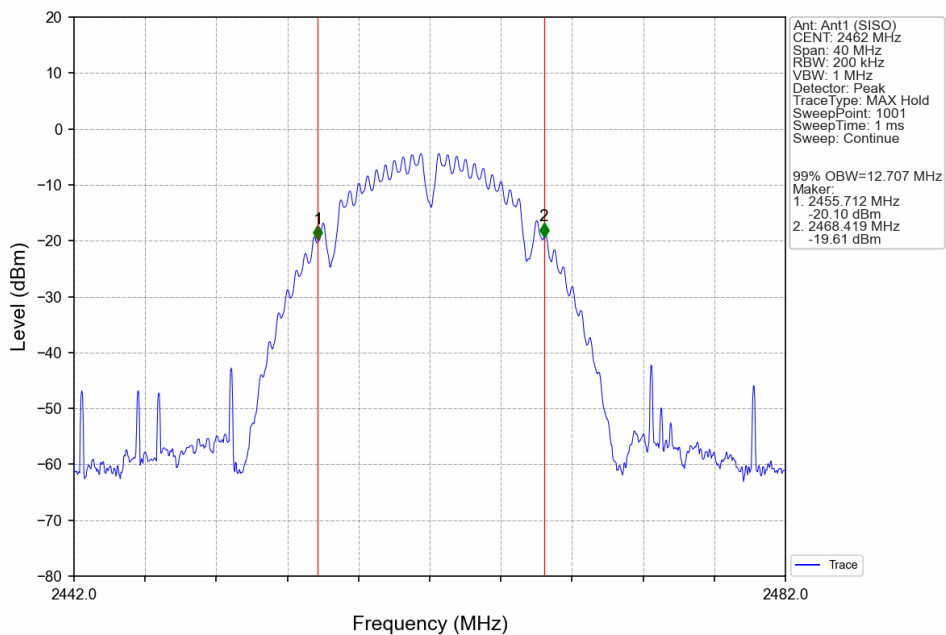
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.862	≥ 0.5	Pass
		2437	1	8.931	≥ 0.5	Pass
		2462	1	8.920	≥ 0.5	Pass
802.11g	SISO	2412	1	16.213	≥ 0.5	Pass
		2437	1	16.046	≥ 0.5	Pass
		2462	1	15.959	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	16.971	≥ 0.5	Pass
		2437	1	17.322	≥ 0.5	Pass
		2462	1	16.811	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	33.623	≥ 0.5	Pass
		2437	1	35.691	≥ 0.5	Pass
		2452	1	35.657	≥ 0.5	Pass

2.2 Test Graph

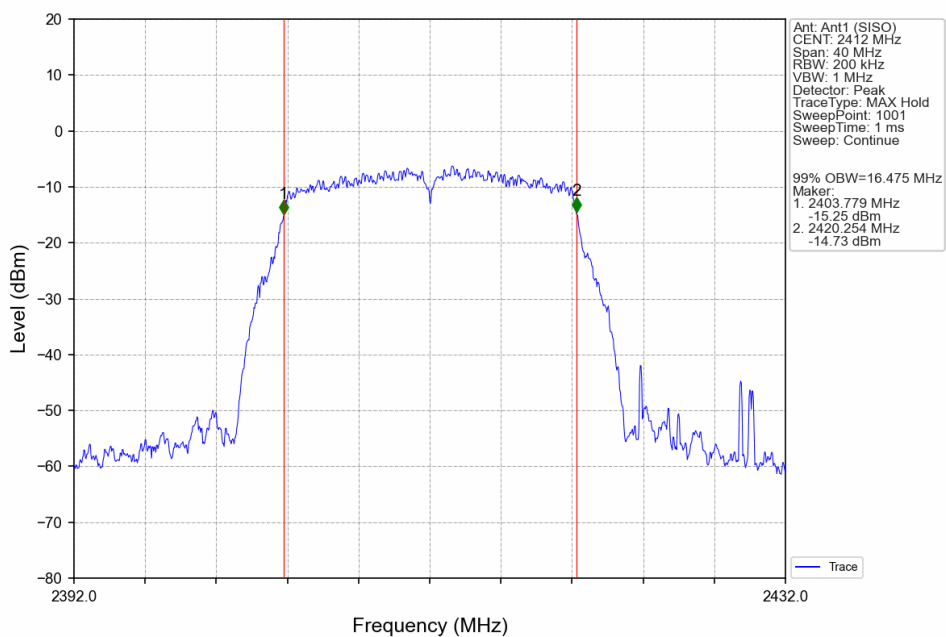
2.2.1 OBW



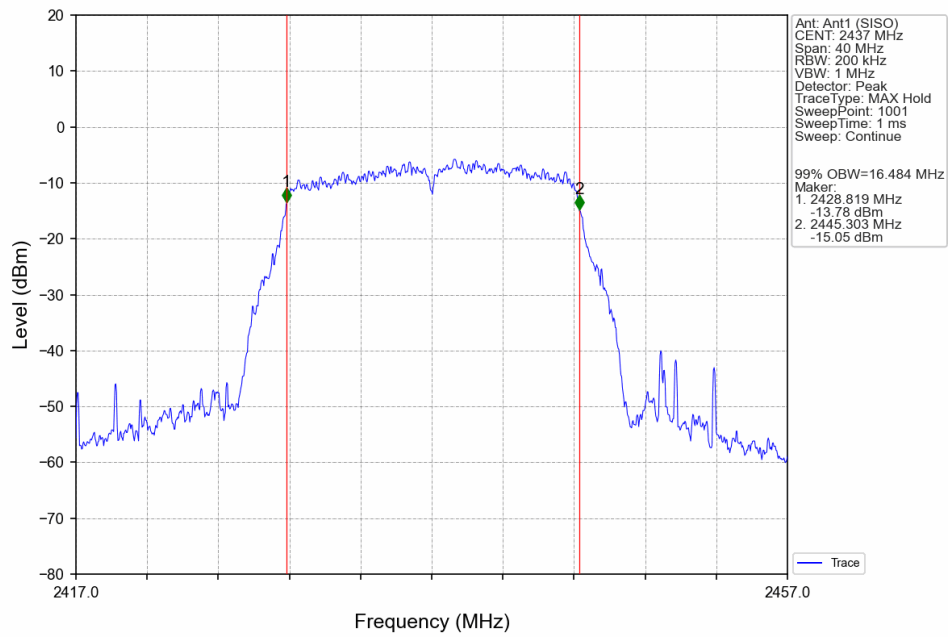
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



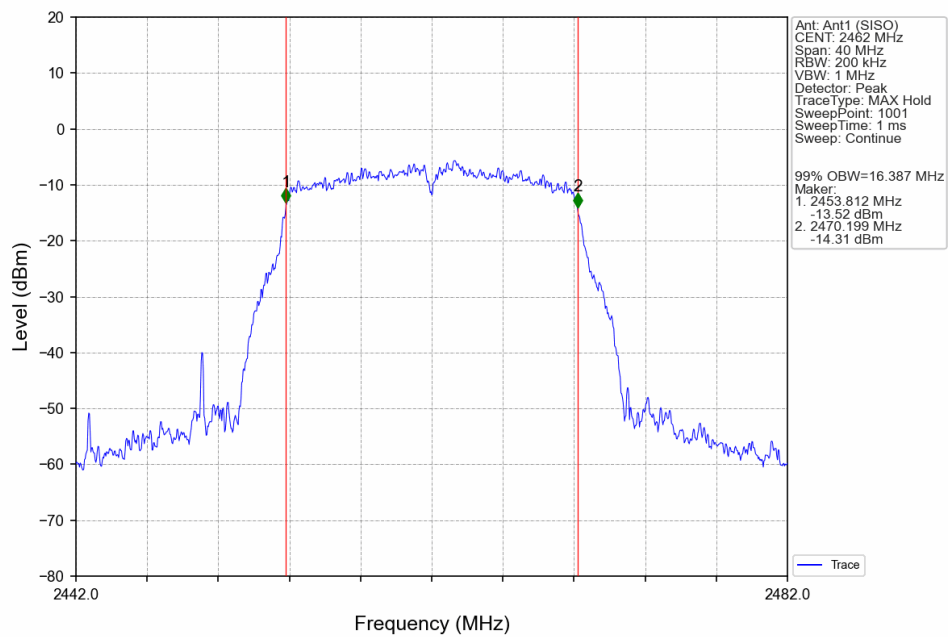
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



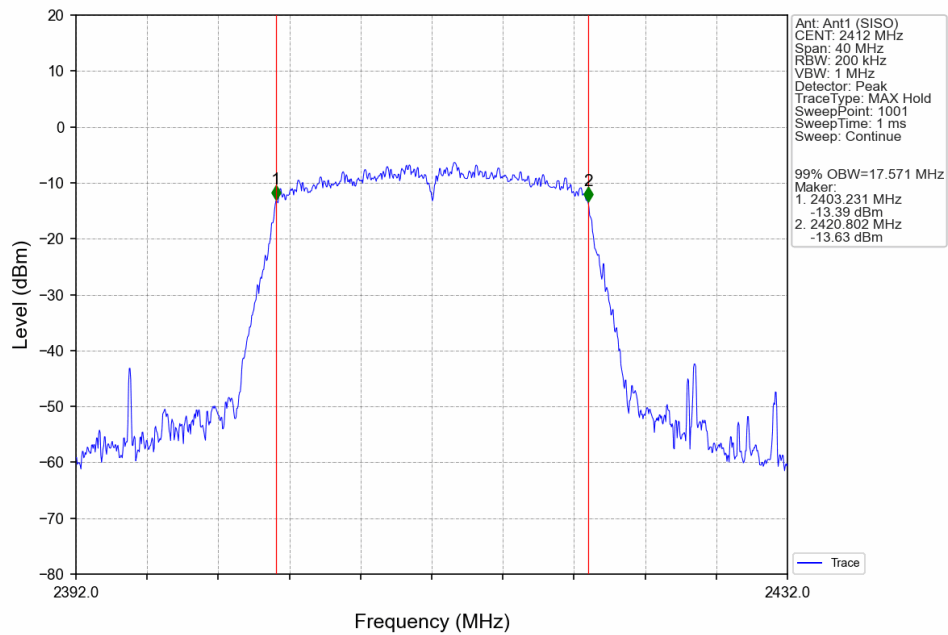
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



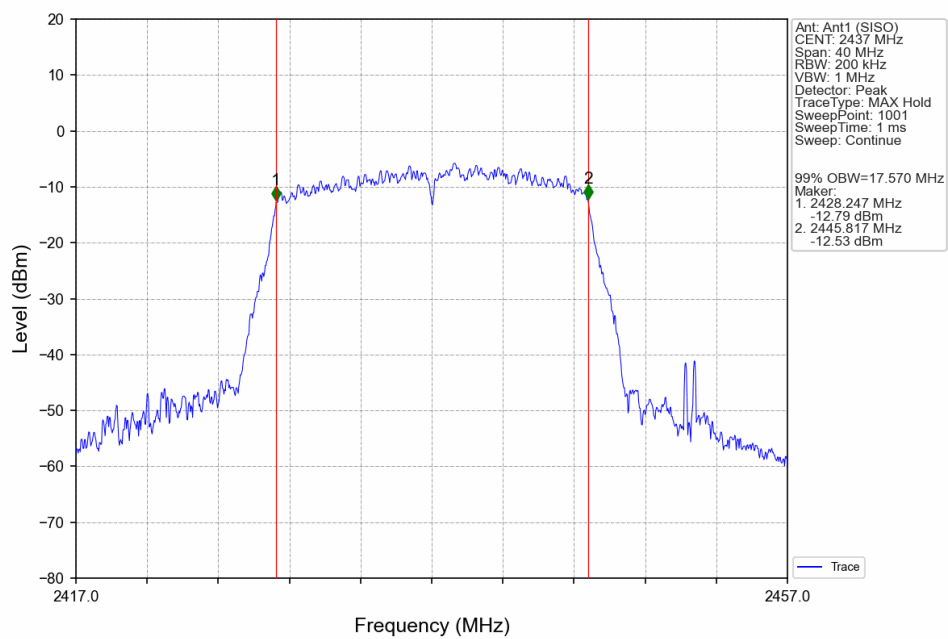
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



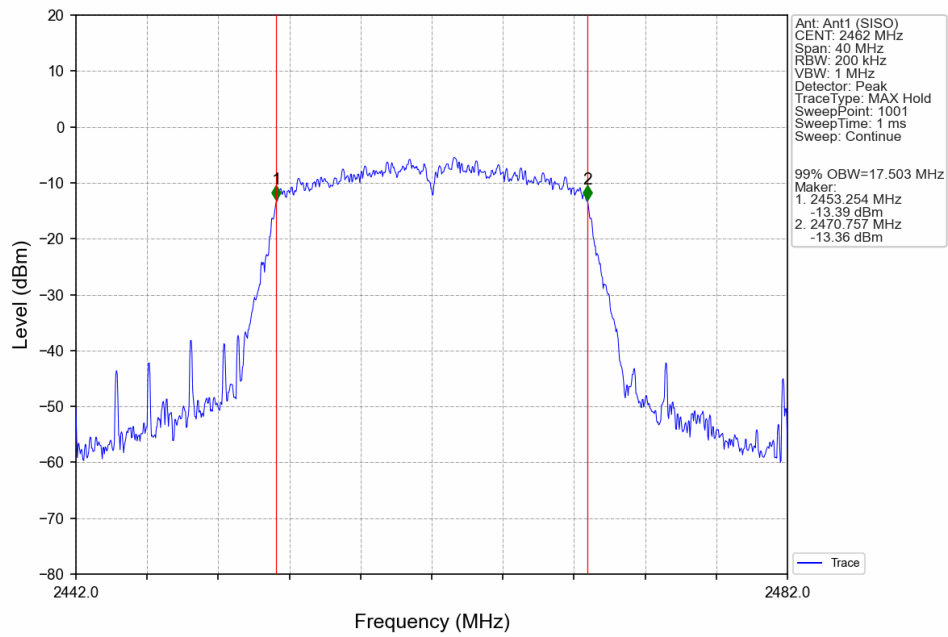
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



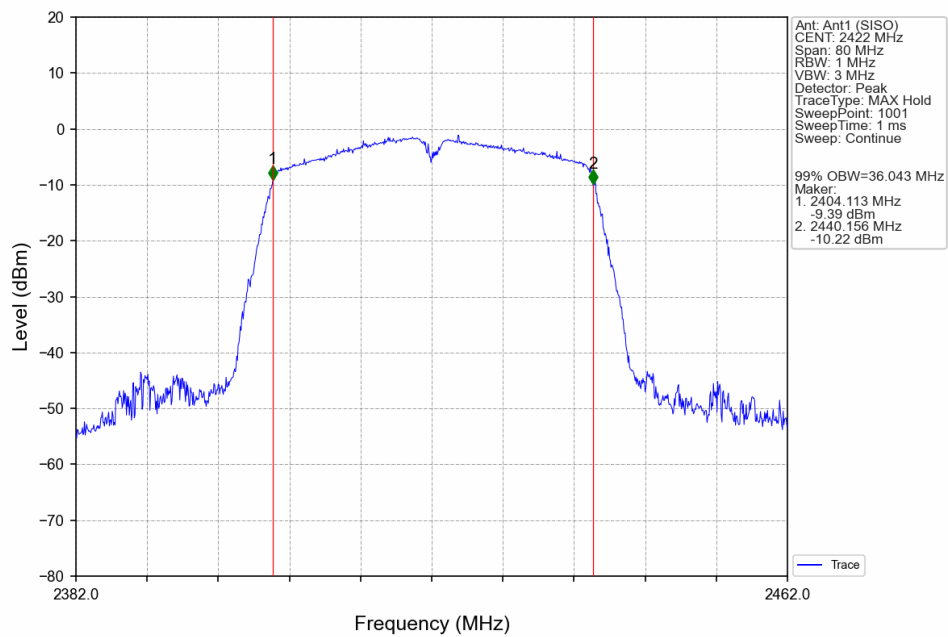
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



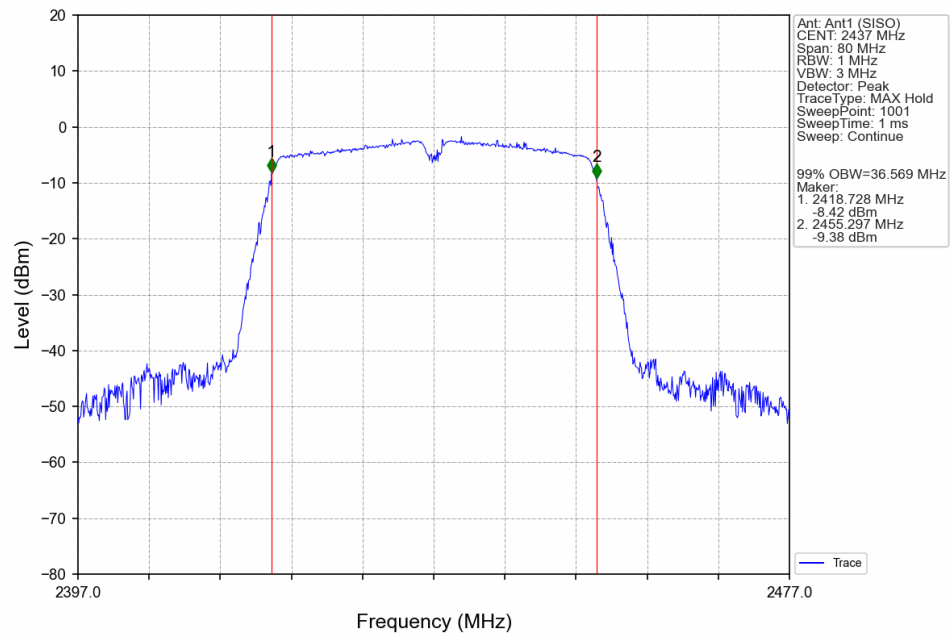
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



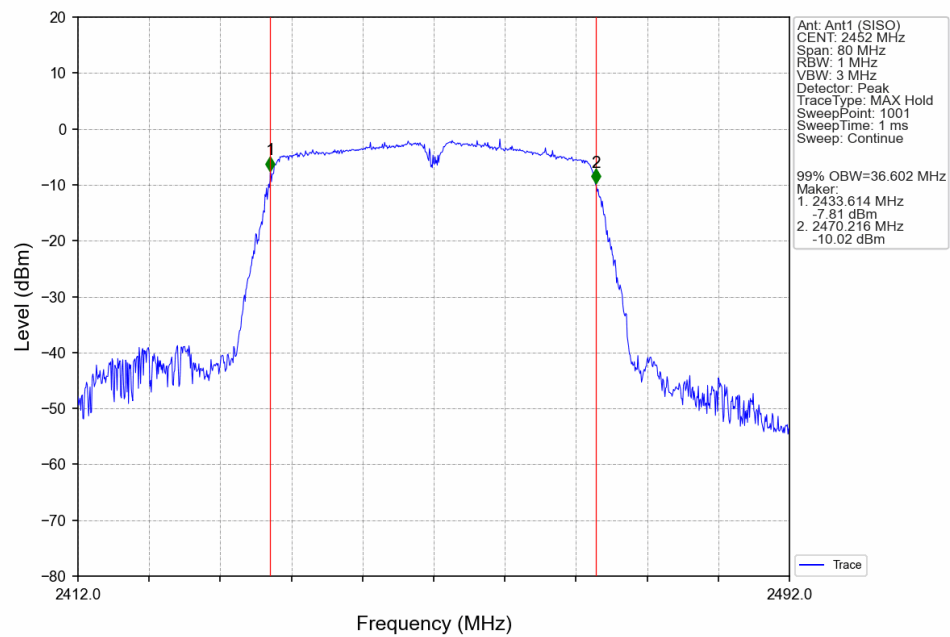
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

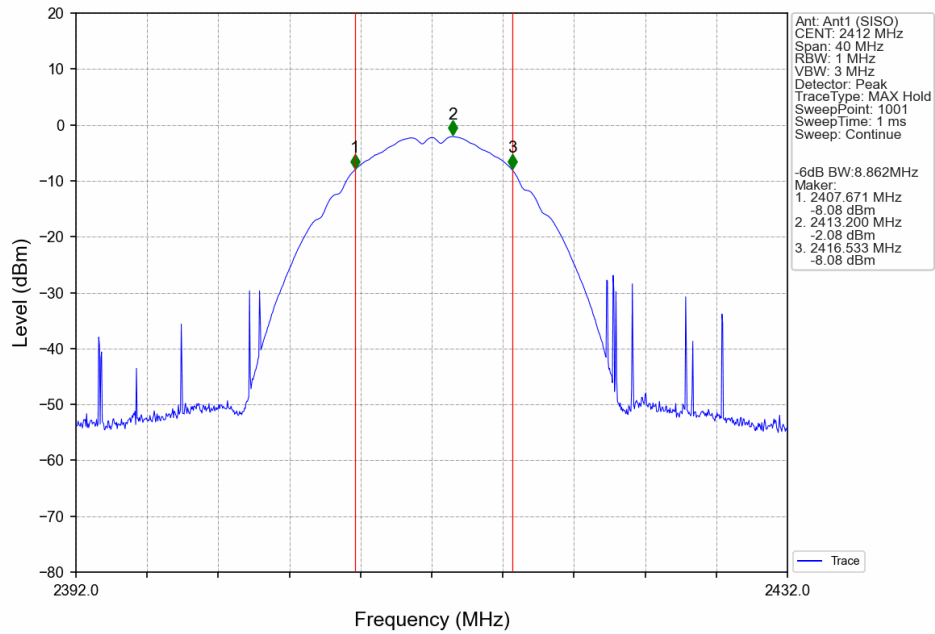


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

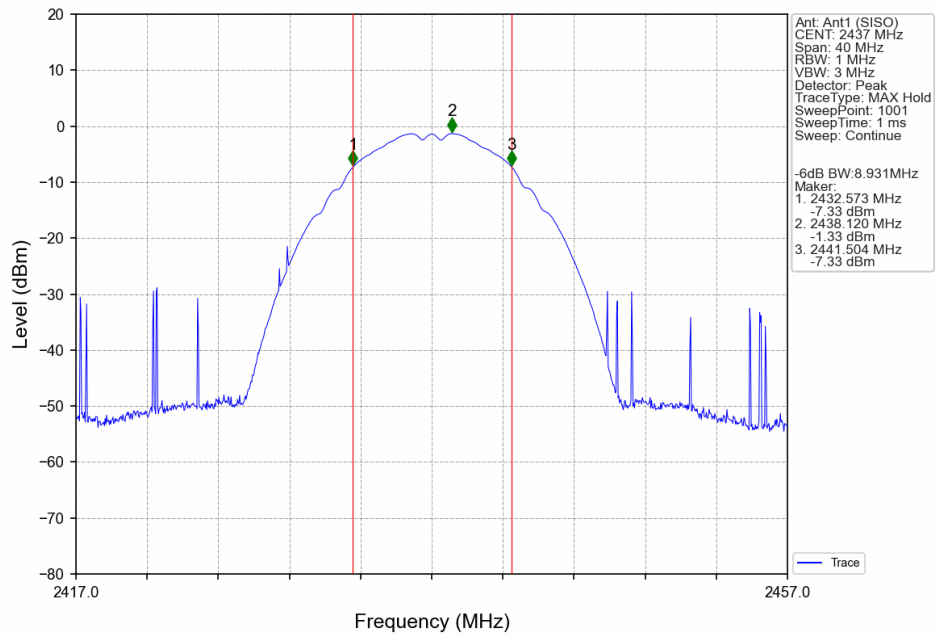


2.2.2 6dB BW

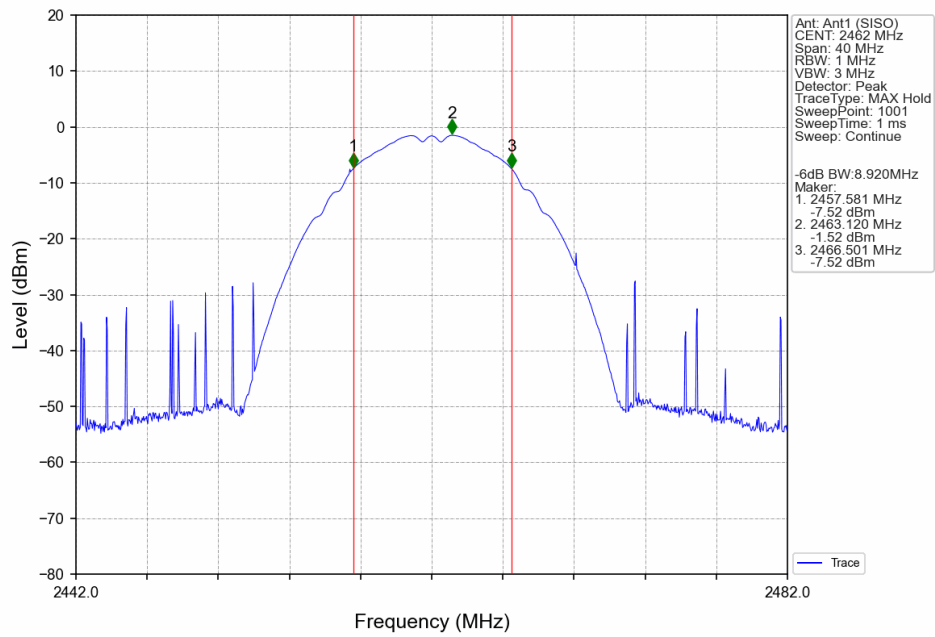
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



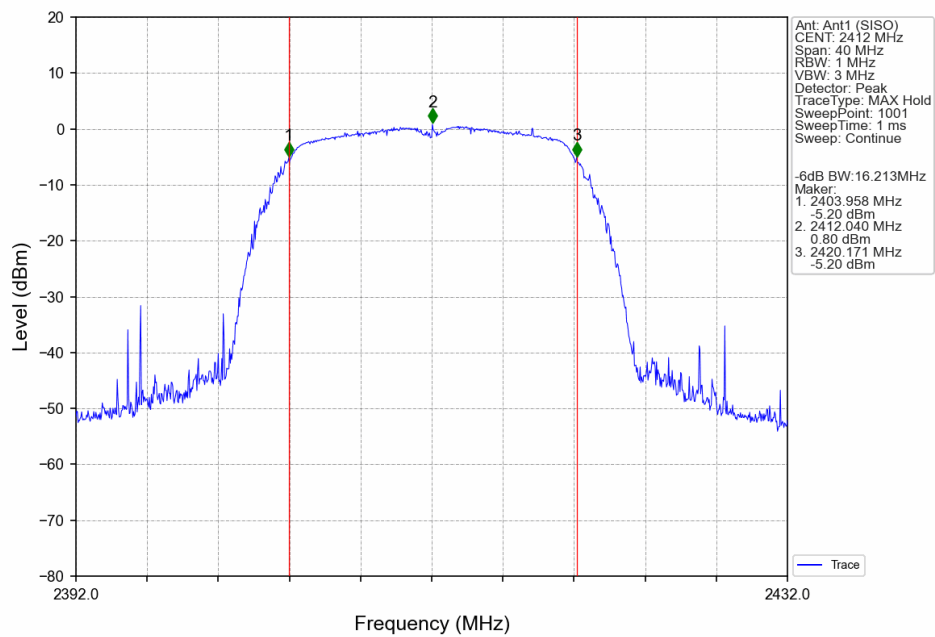
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



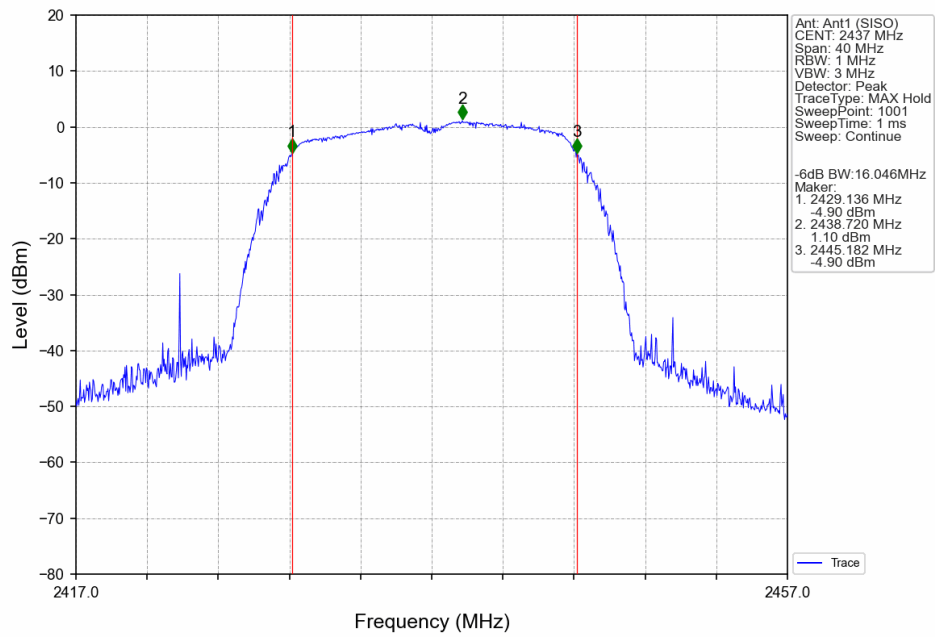
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



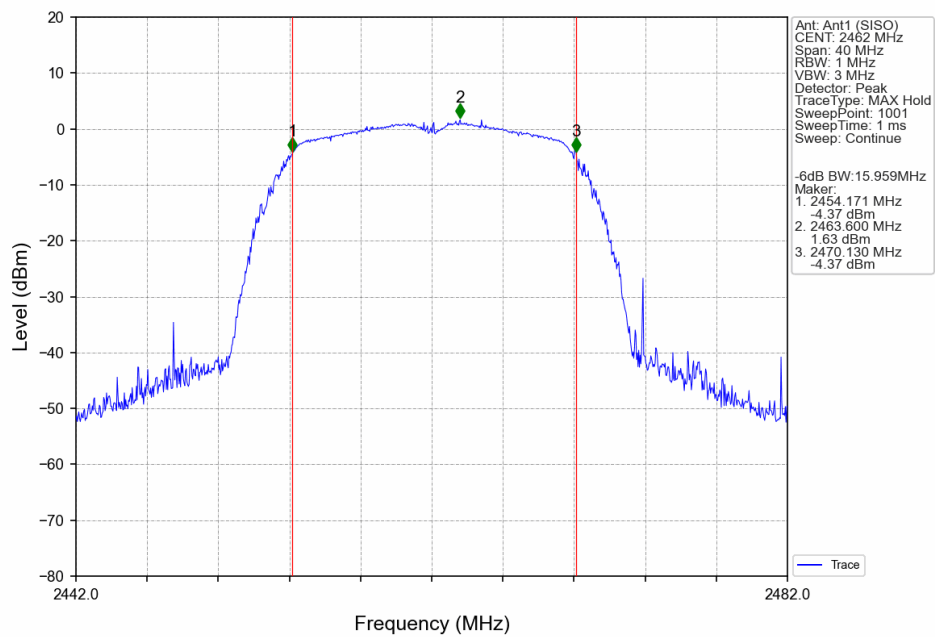
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



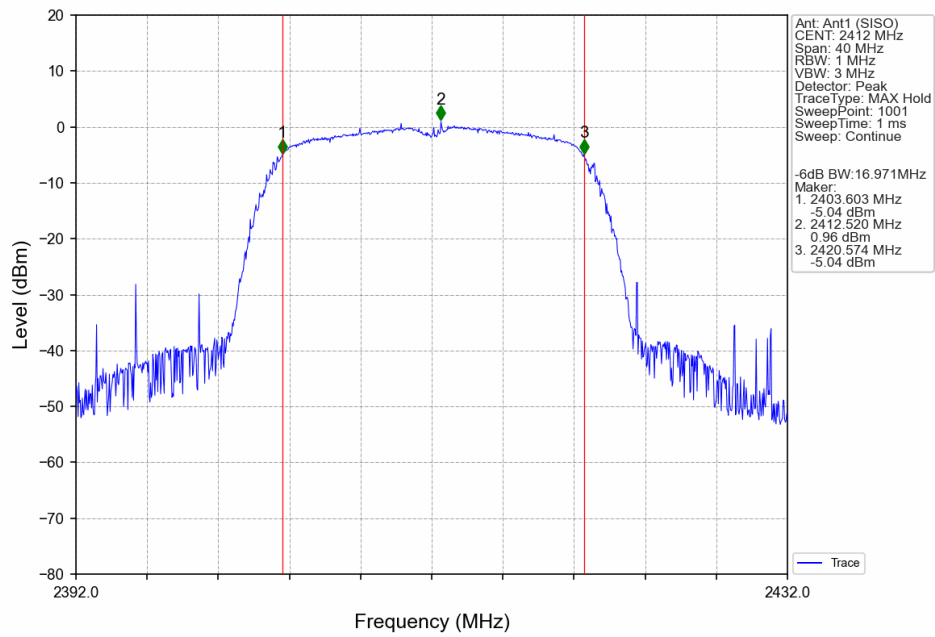
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



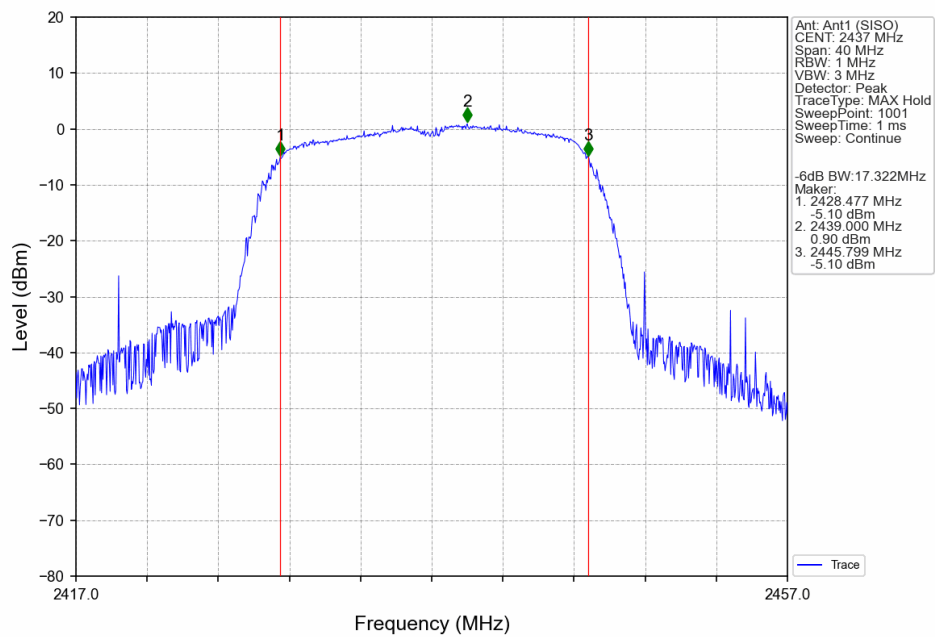
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



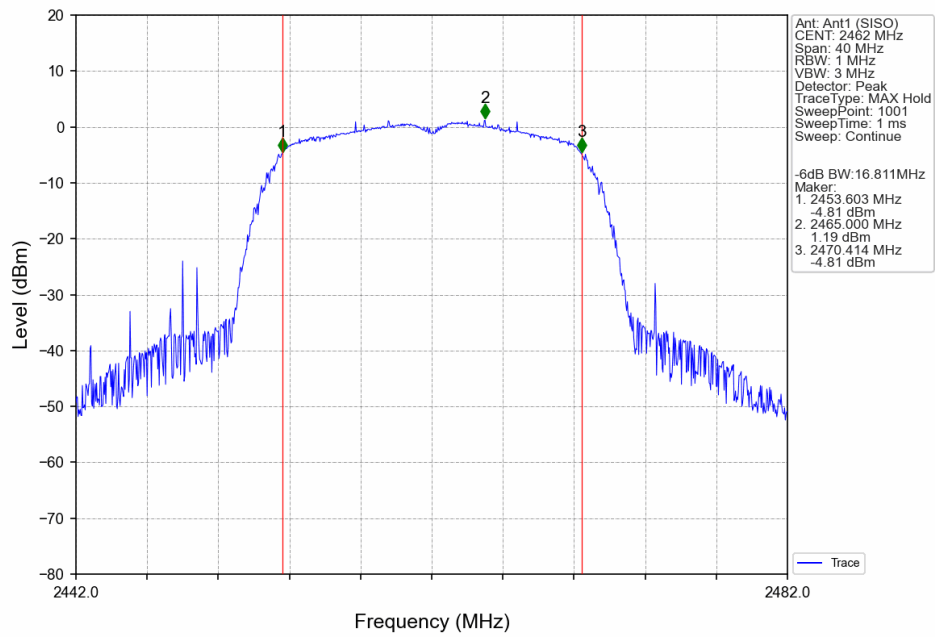
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



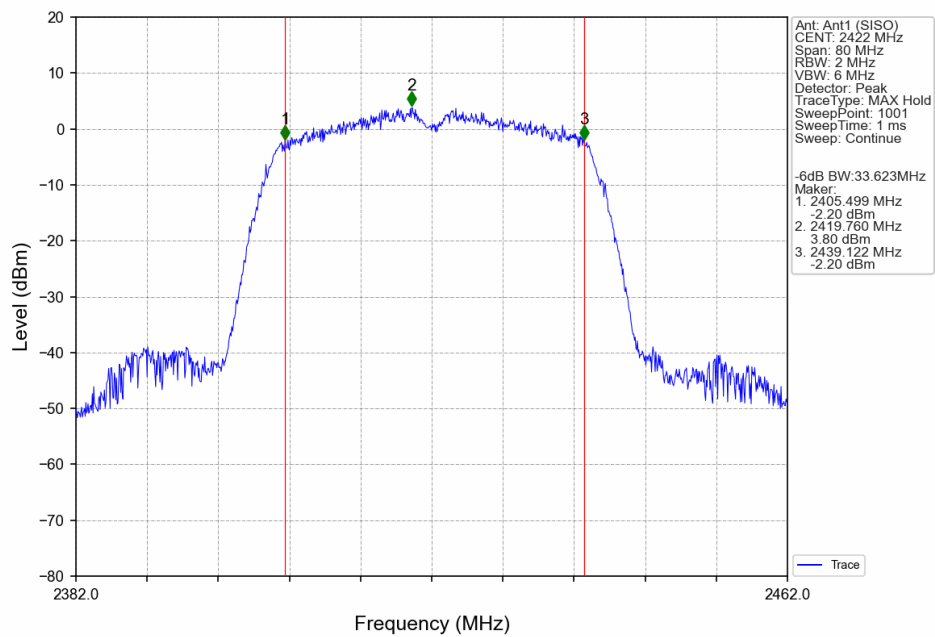
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



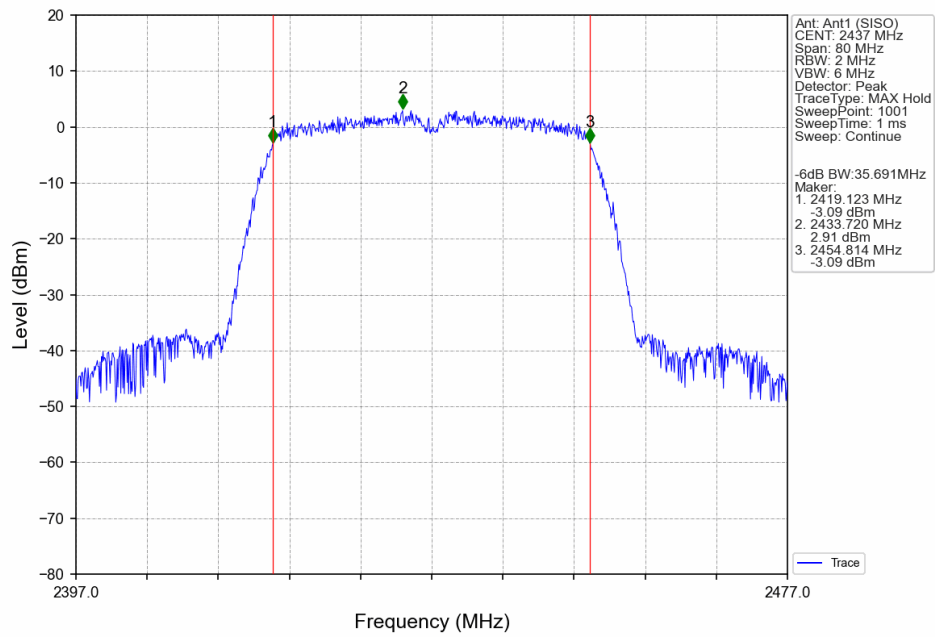
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



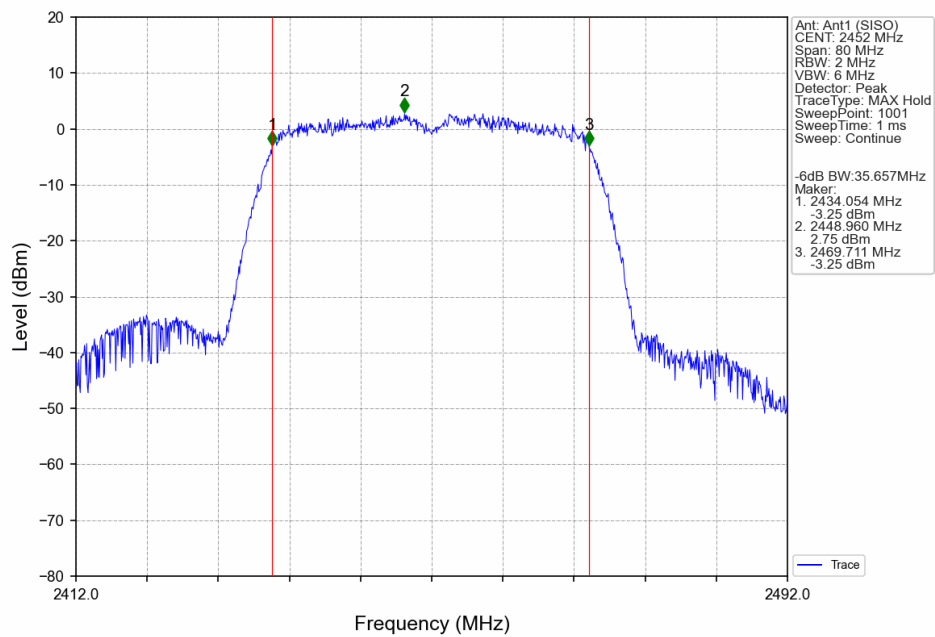
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	11.82	<=30	Pass
		2437	12.19	<=30	Pass
		2462	12.14	<=30	Pass
802.11g	SISO	2412	10.81	<=30	Pass
		2437	11.16	<=30	Pass
		2462	11.22	<=30	Pass
802.11n (HT20)	SISO	2412	10.63	<=30	Pass
		2437	10.81	<=30	Pass
		2462	11.10	<=30	Pass
802.11n (HT40)	SISO	2422	11.29	<=30	Pass
		2437	11.32	<=30	Pass
		2452	11.37	<=30	Pass

4. Maximum Power Spectral Density

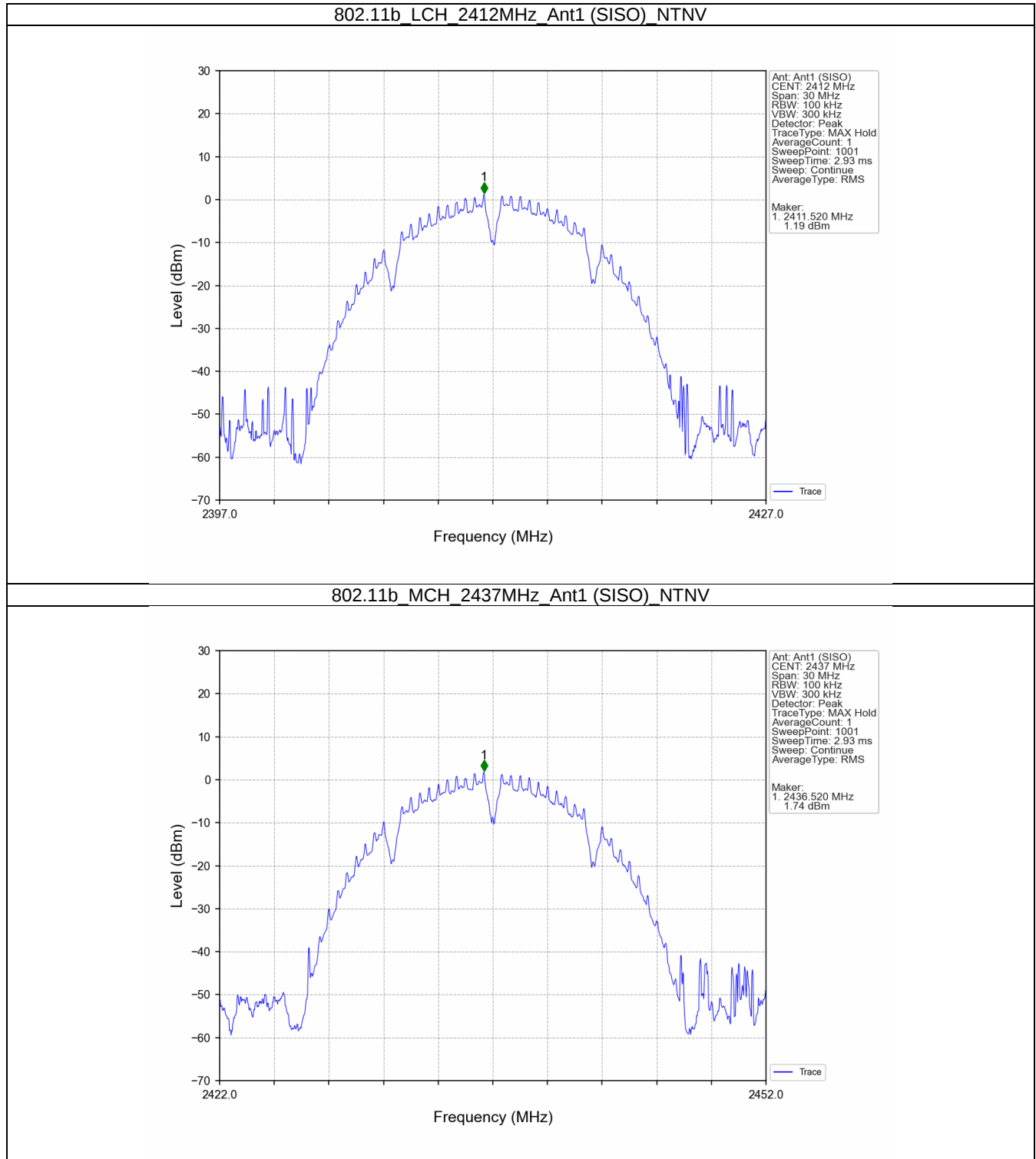
4.1 Test Result

4.1.1 PSD

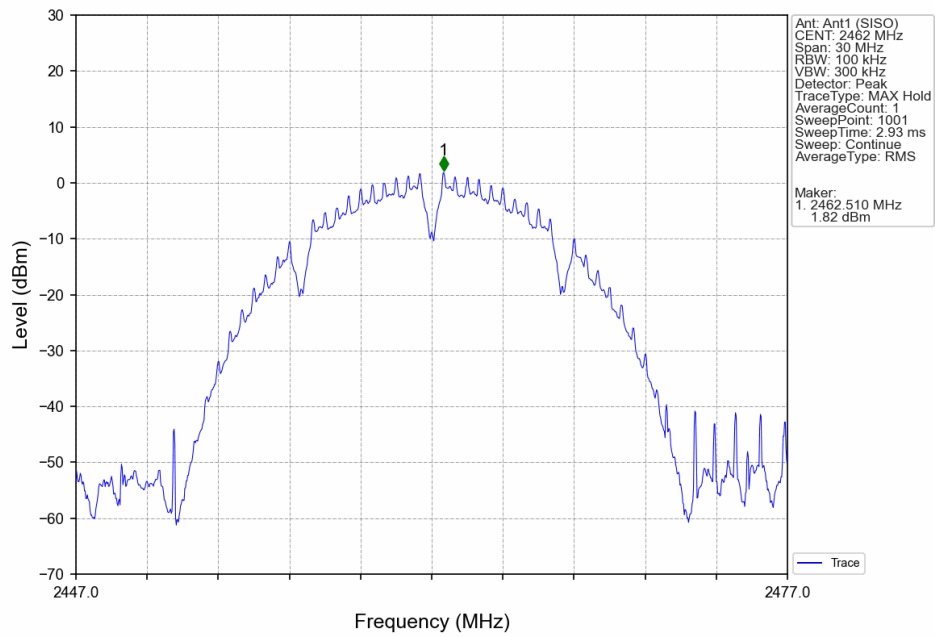
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	1.19	<=8	Pass
		2437	1.74	<=8	Pass
		2462	1.82	<=8	Pass
802.11g	SISO	2412	-7.68	<=8	Pass
		2437	-7.08	<=8	Pass
		2462	-6.31	<=8	Pass
802.11n (HT20)	SISO	2412	-6.84	<=8	Pass
		2437	-6.83	<=8	Pass
		2462	-6.41	<=8	Pass
802.11n (HT40)	SISO	2422	-8.87	<=8	Pass
		2437	-9.71	<=8	Pass
		2452	-9.60	<=8	Pass

4.2 Test Graph

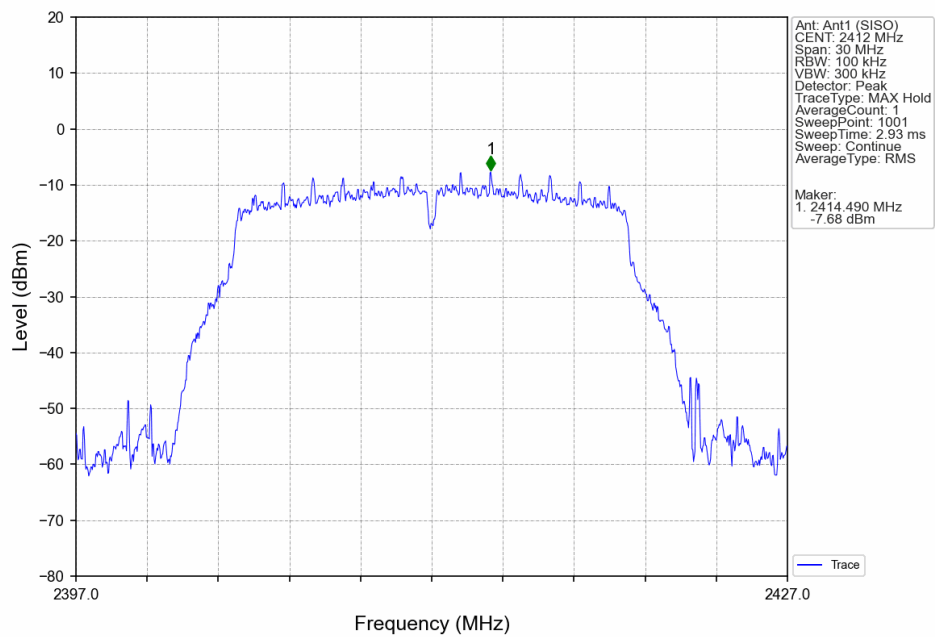
4.2.1 PSD



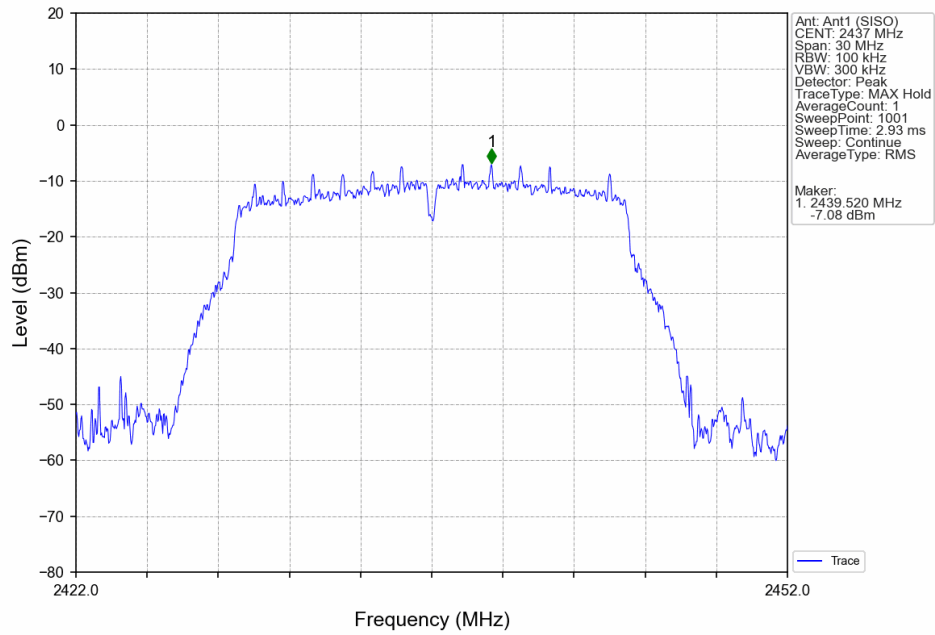
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



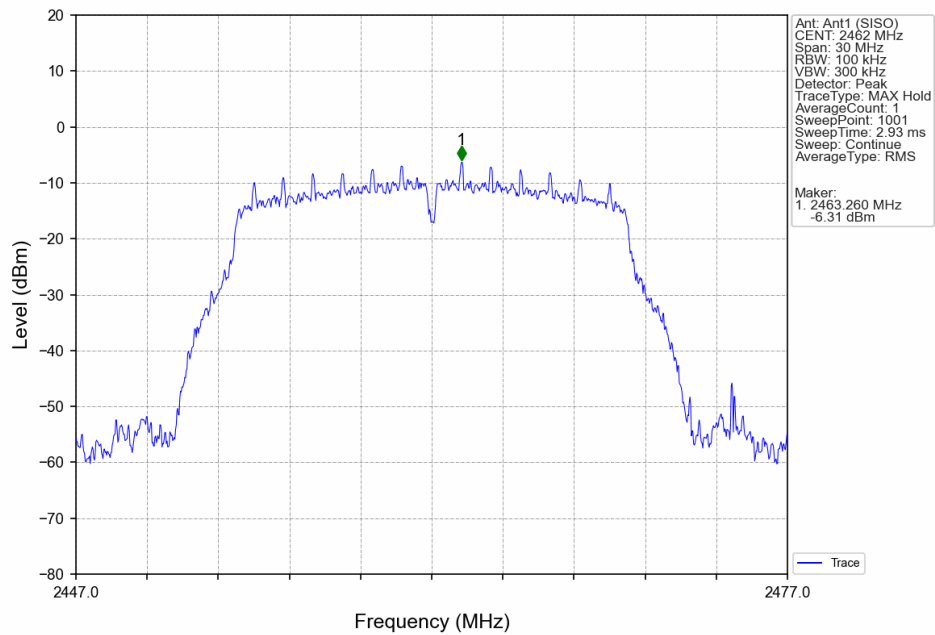
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



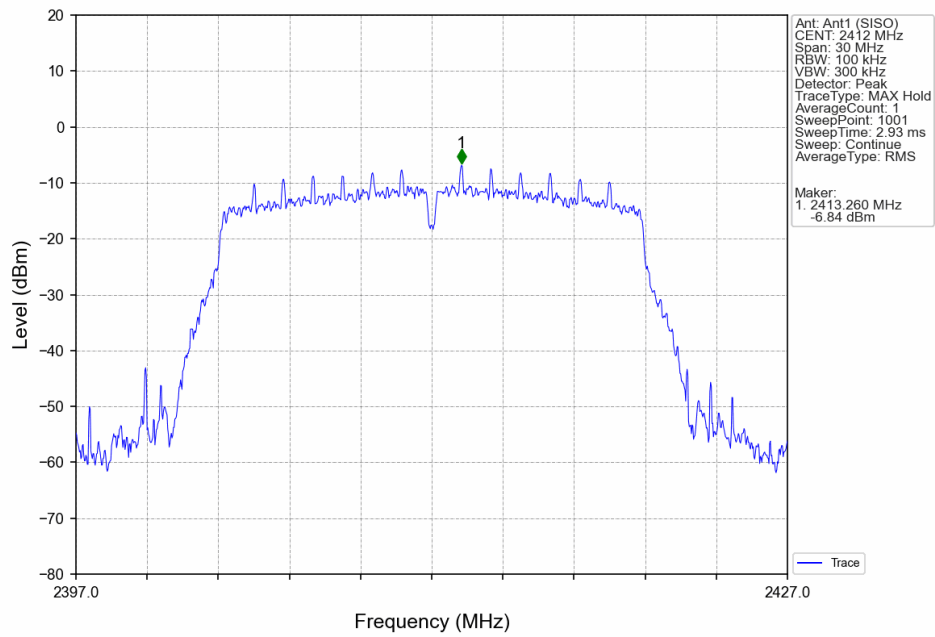
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



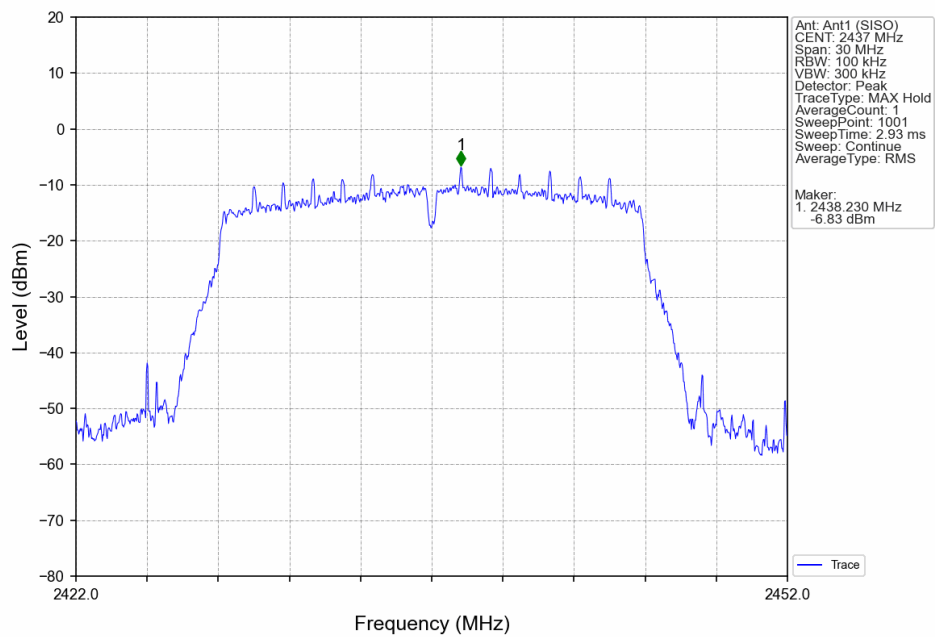
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



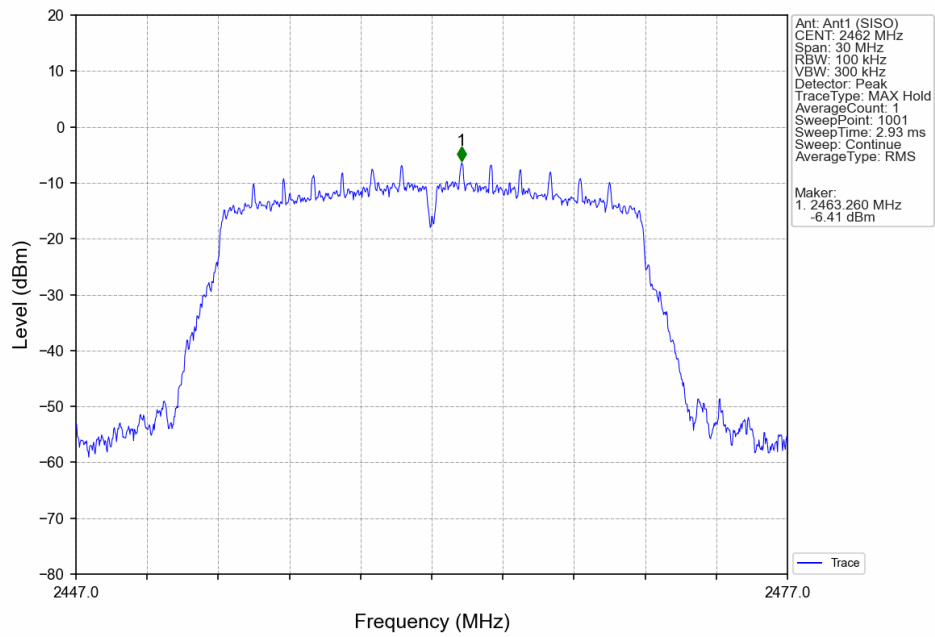
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



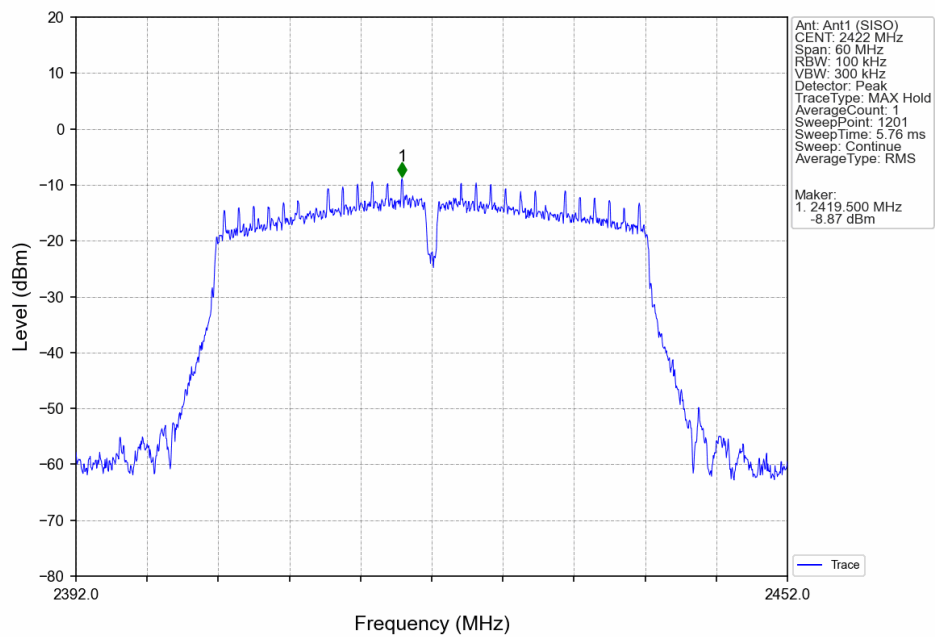
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



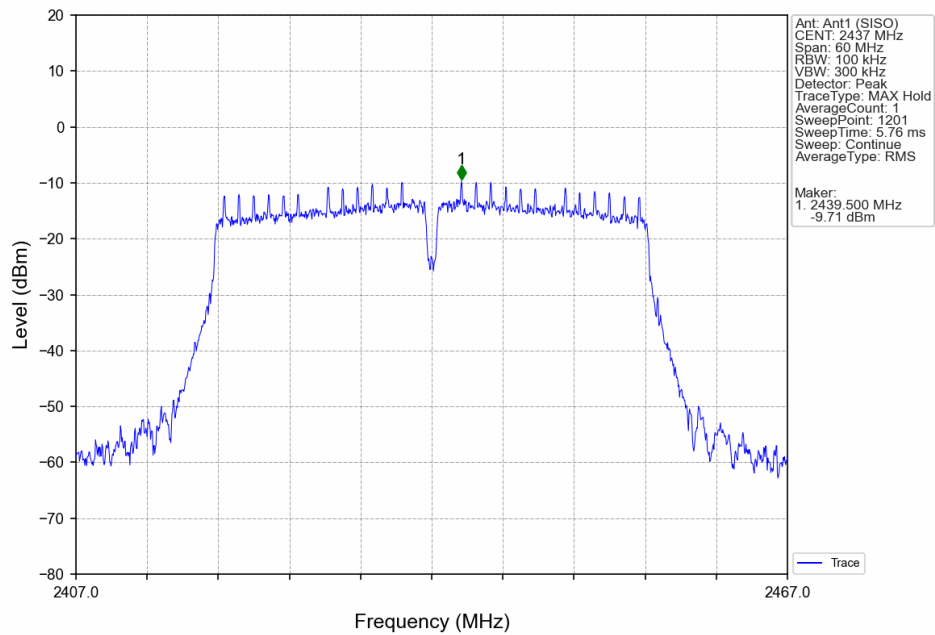
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



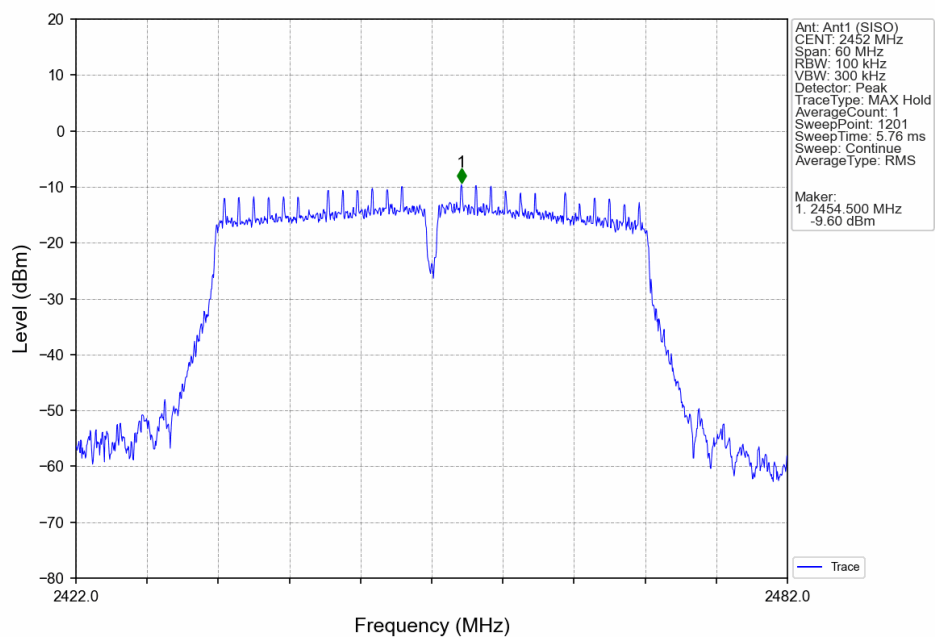
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

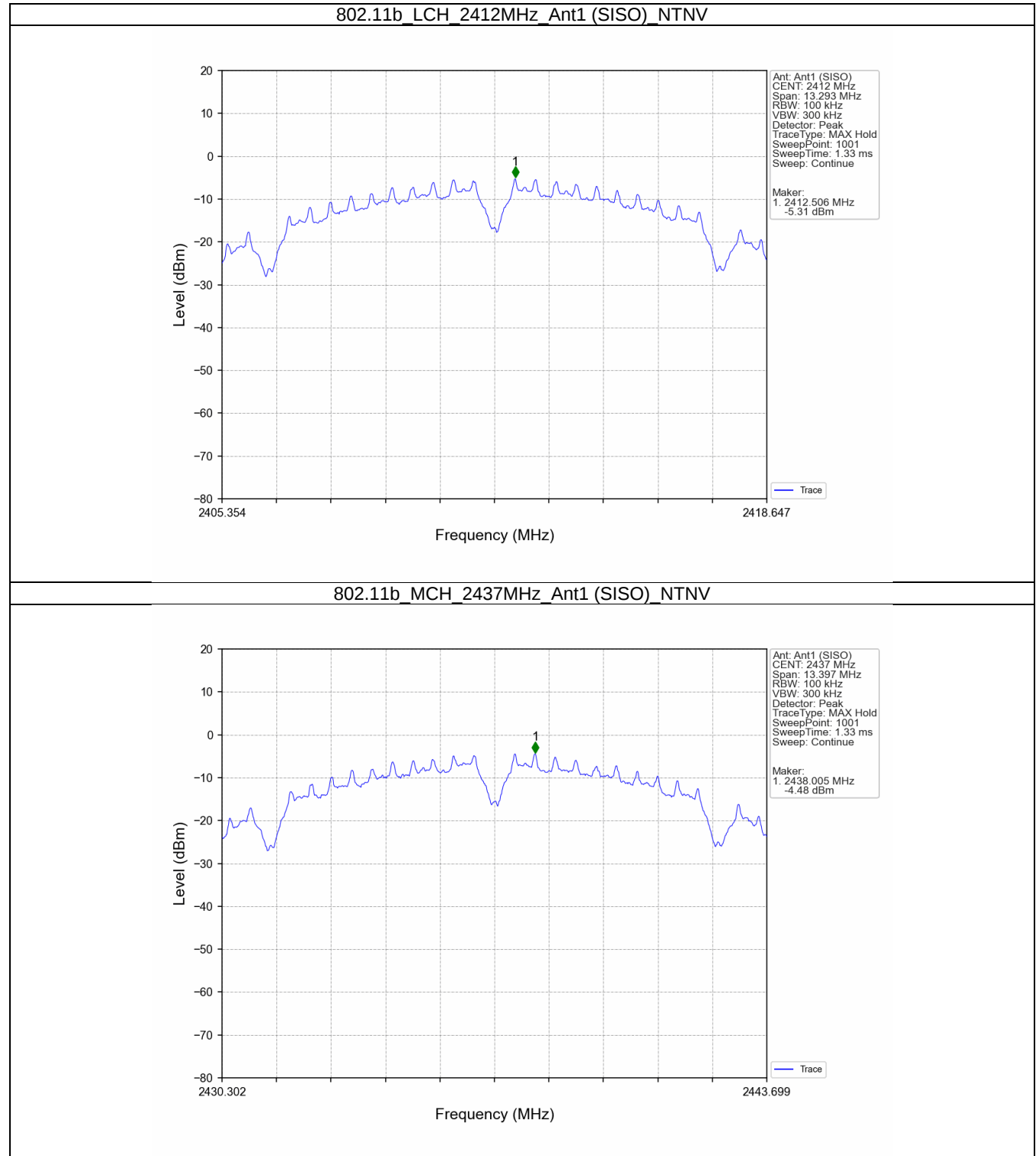
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-5.31
		2437	1	-4.48
		2462	1	-4.52
802.11g	SISO	2412	1	-7.60
		2437	1	-7.22
		2462	1	-6.36
802.11n (HT20)	SISO	2412	1	-6.97
		2437	1	-6.59
		2462	1	-6.39
802.11n (HT40)	SISO	2422	1	-8.71
		2437	1	-9.83
		2452	1	-9.69

5.1.2 CSE

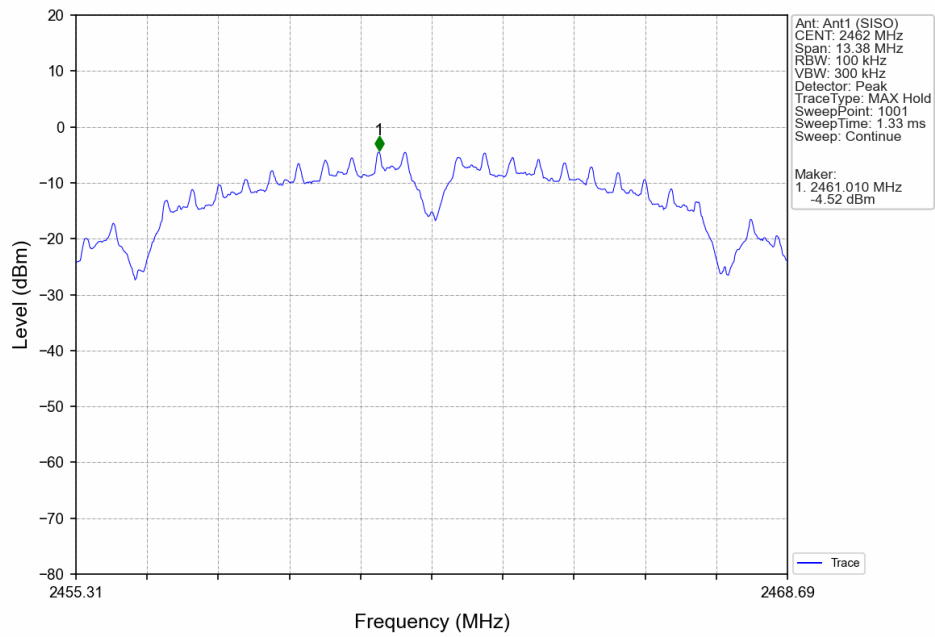
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-4.48	-24.48	Pass
		2437	1	-4.48	-24.48	Pass
		2462	1	-4.48	-24.48	Pass
802.11g	SISO	2412	1	-6.36	-26.36	Pass
		2437	1	-6.36	-26.36	Pass
		2462	1	-6.36	-26.36	Pass
802.11n (HT20)	SISO	2412	1	-6.39	-26.39	Pass
		2437	1	-6.39	-26.39	Pass
		2462	1	-6.39	-26.39	Pass
802.11n (HT40)	SISO	2422	1	-8.71	-28.71	Pass
		2437	1	-8.71	-28.71	Pass
		2452	1	-8.71	-28.71	Pass

5.2 Test Graph

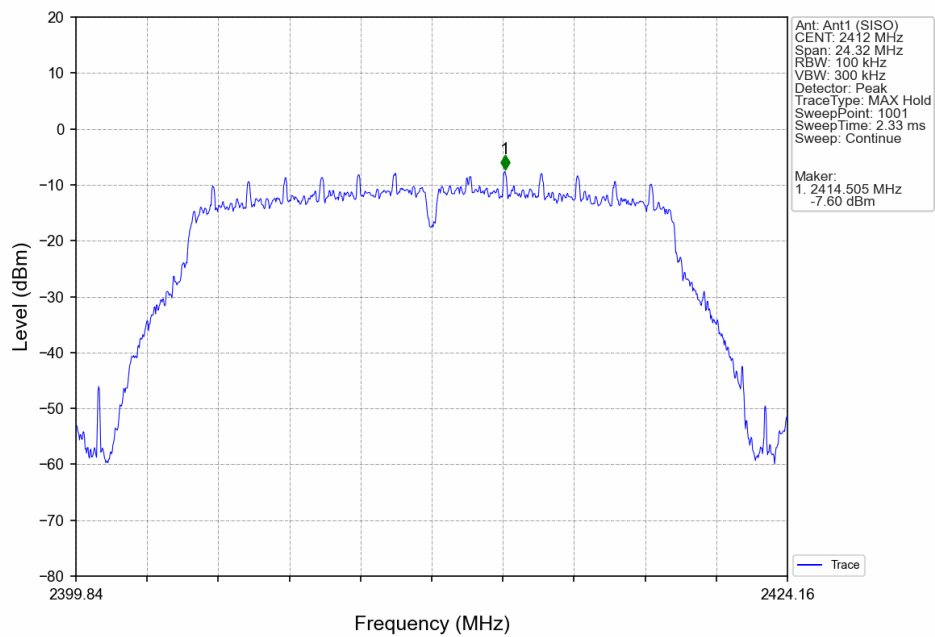
5.2.1 Ref



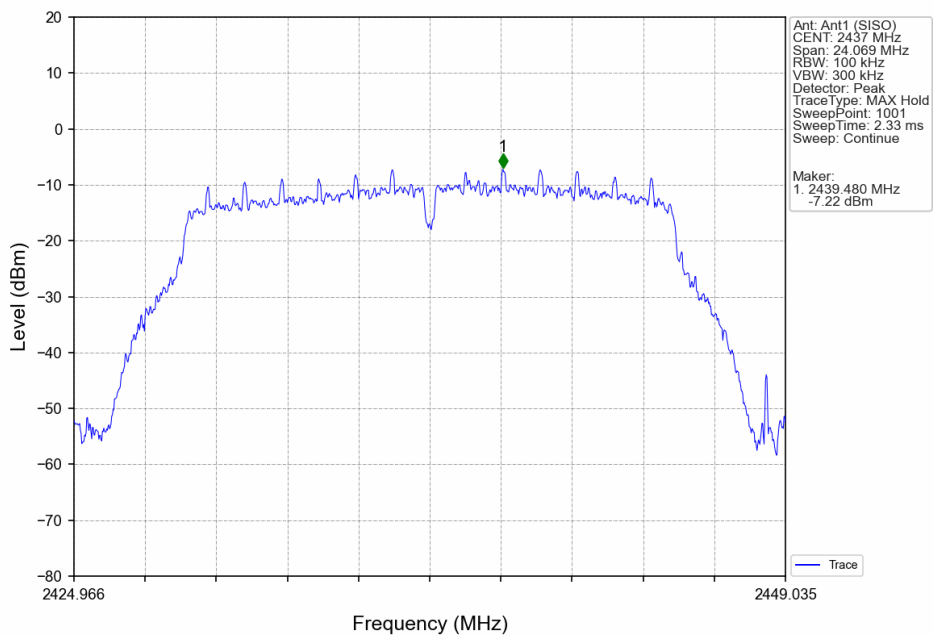
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



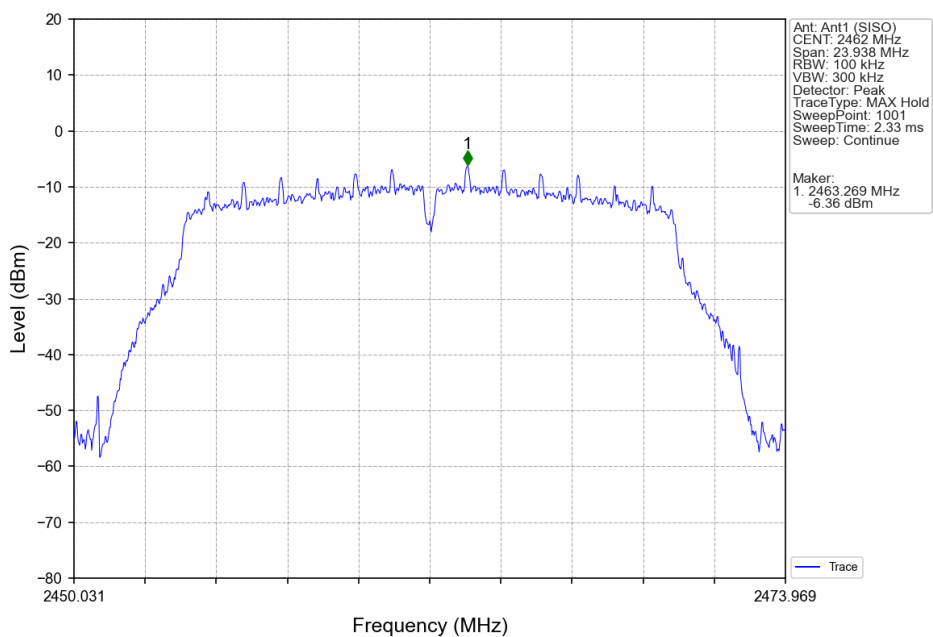
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



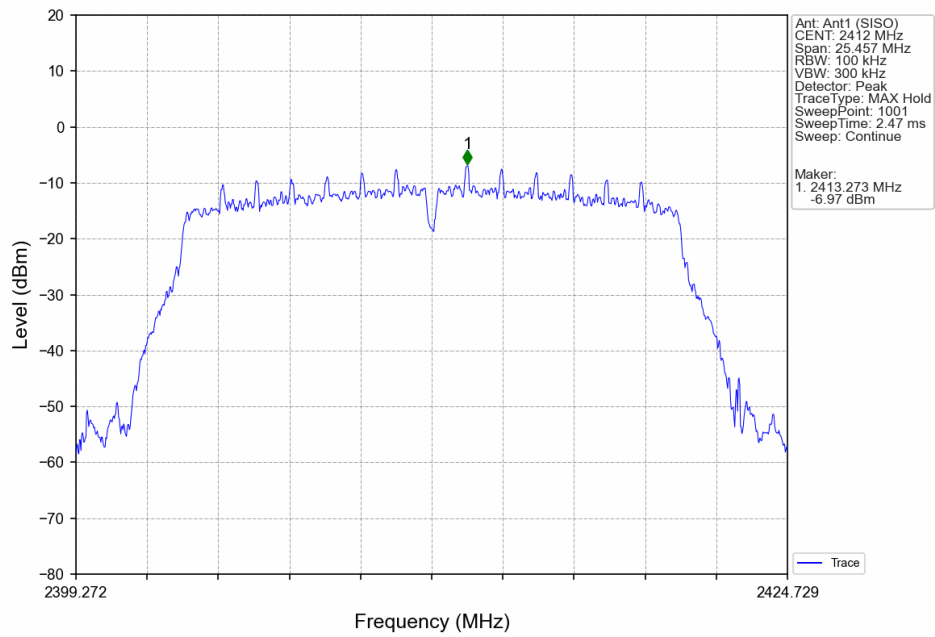
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



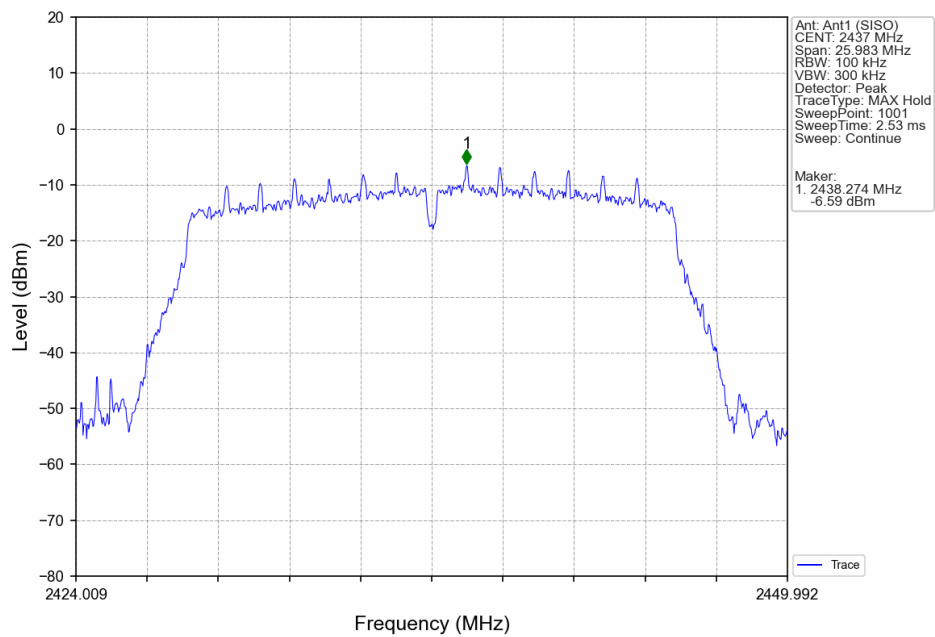
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



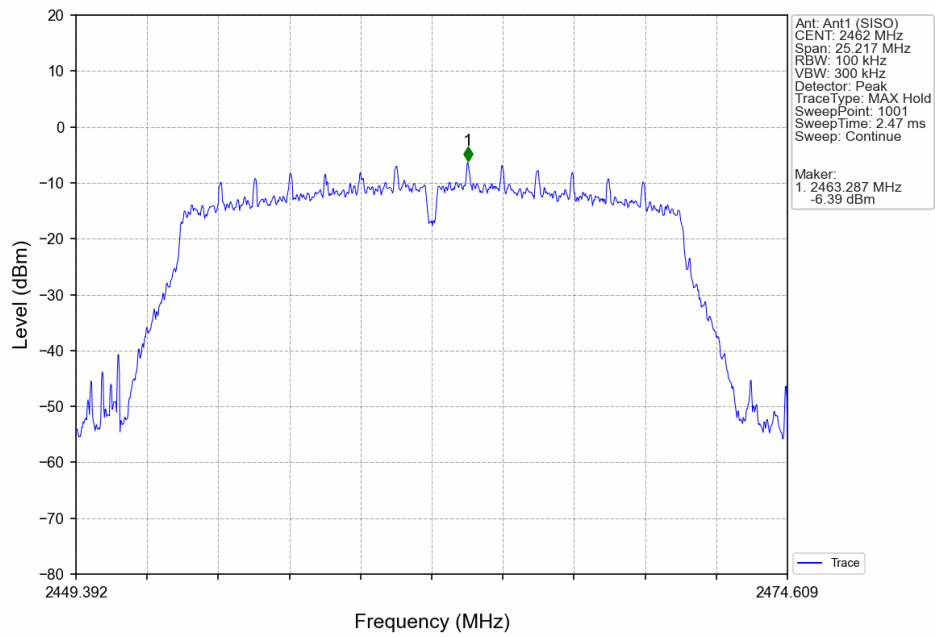
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



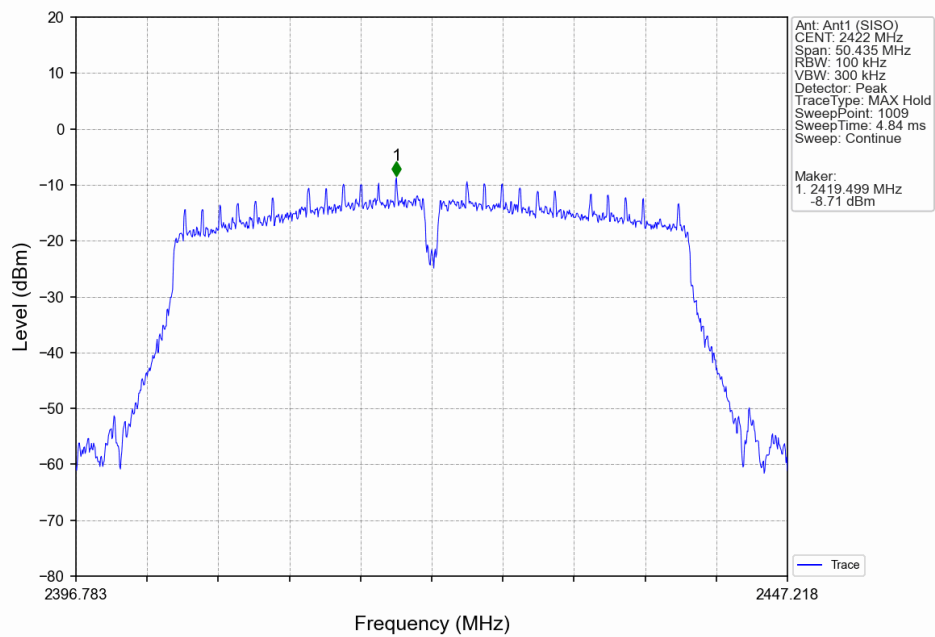
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



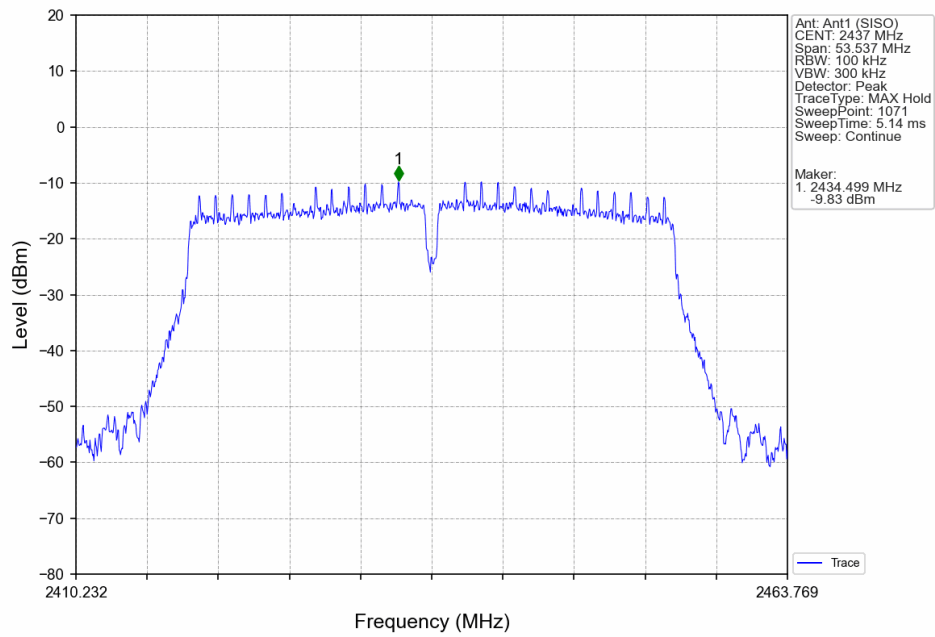
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



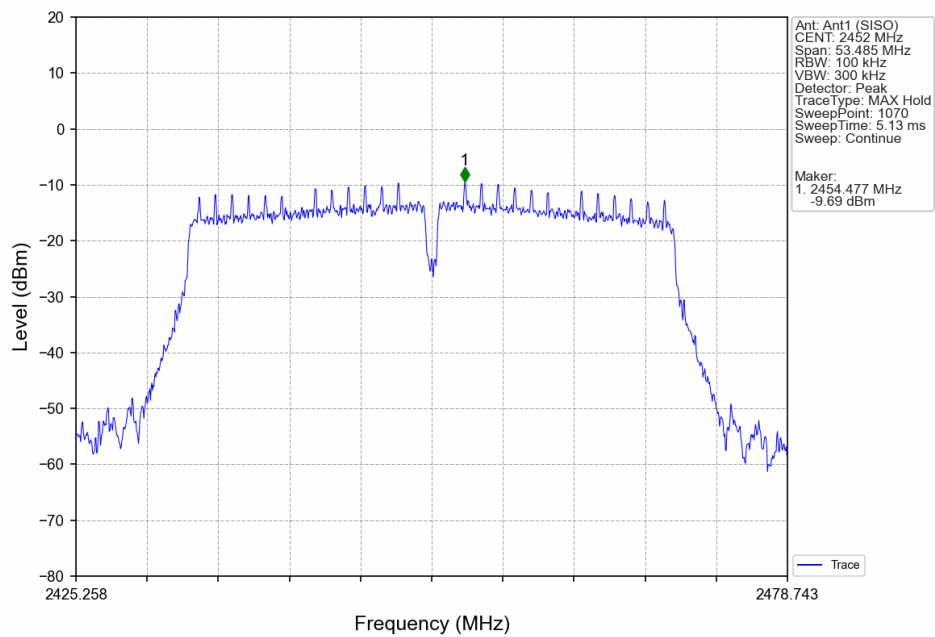
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

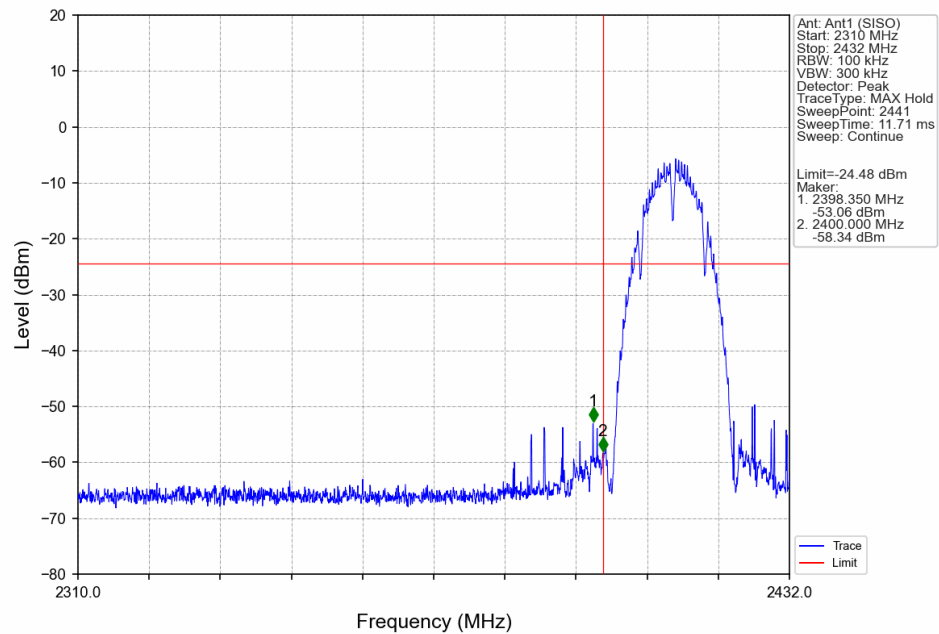


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

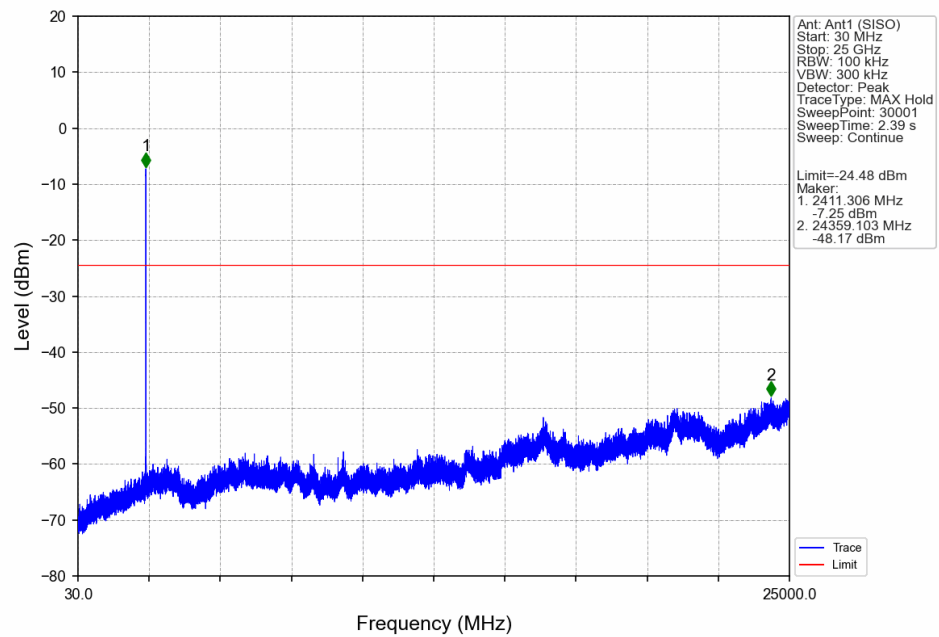


5.2.2 CSE

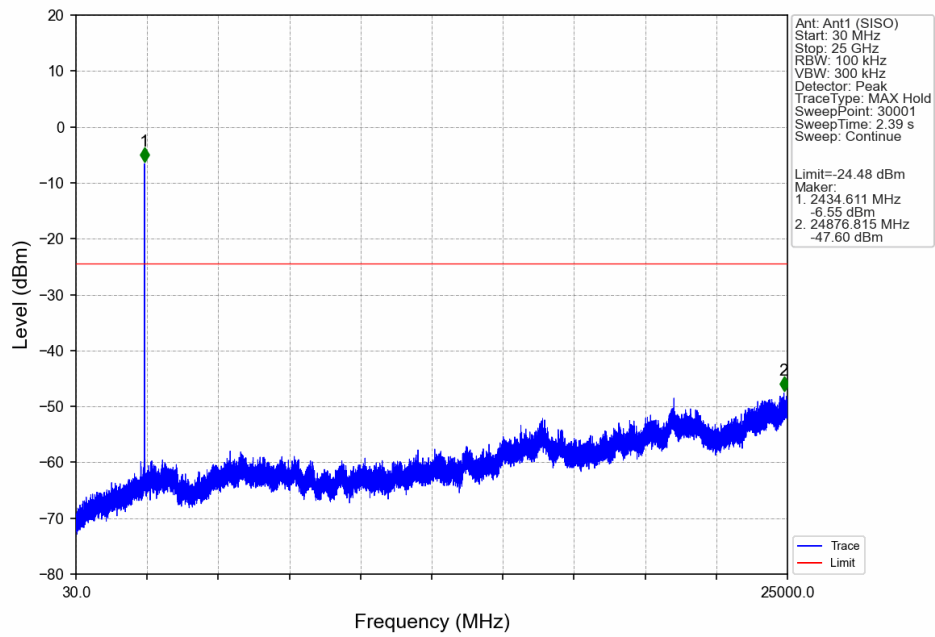
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



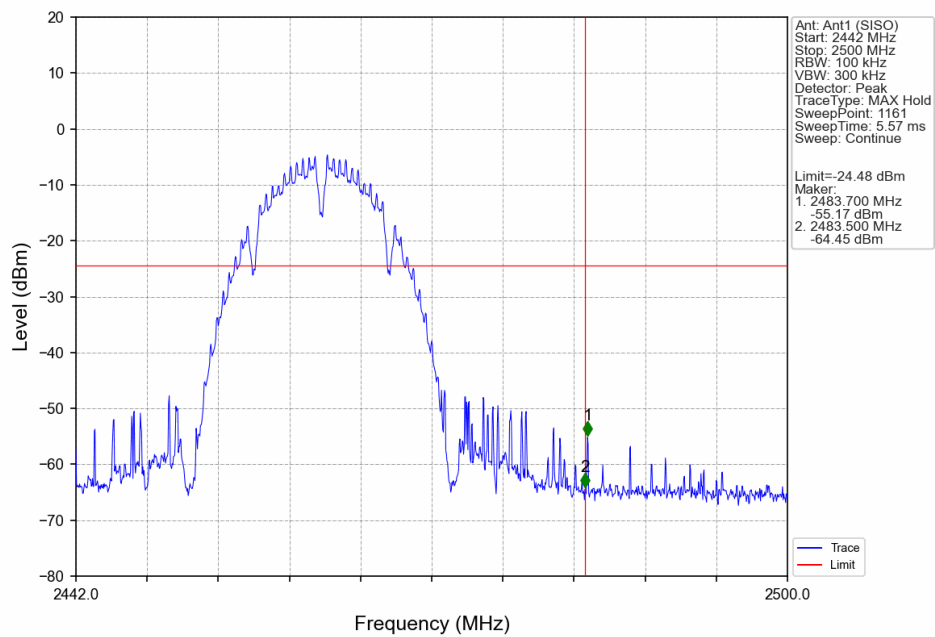
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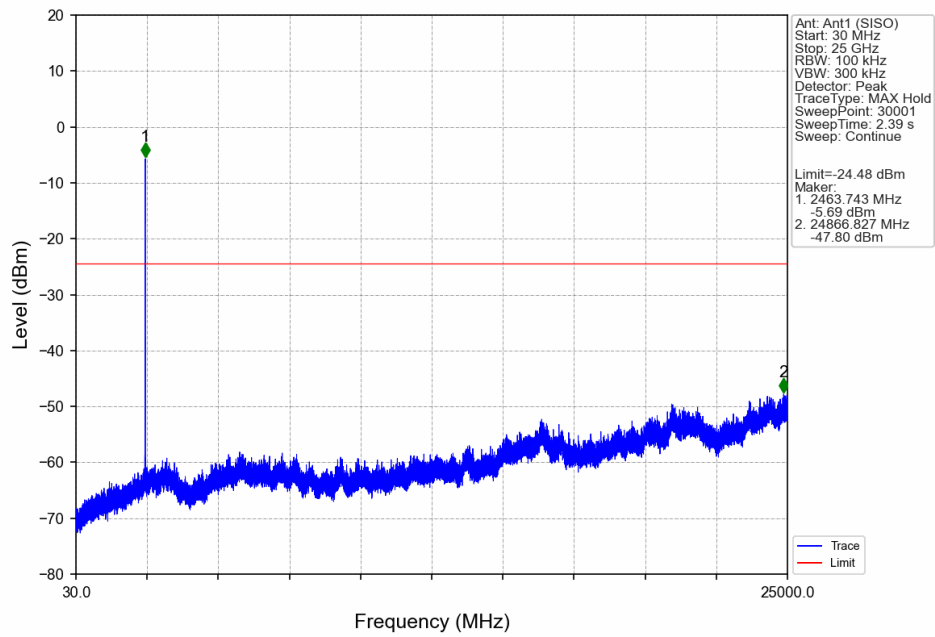
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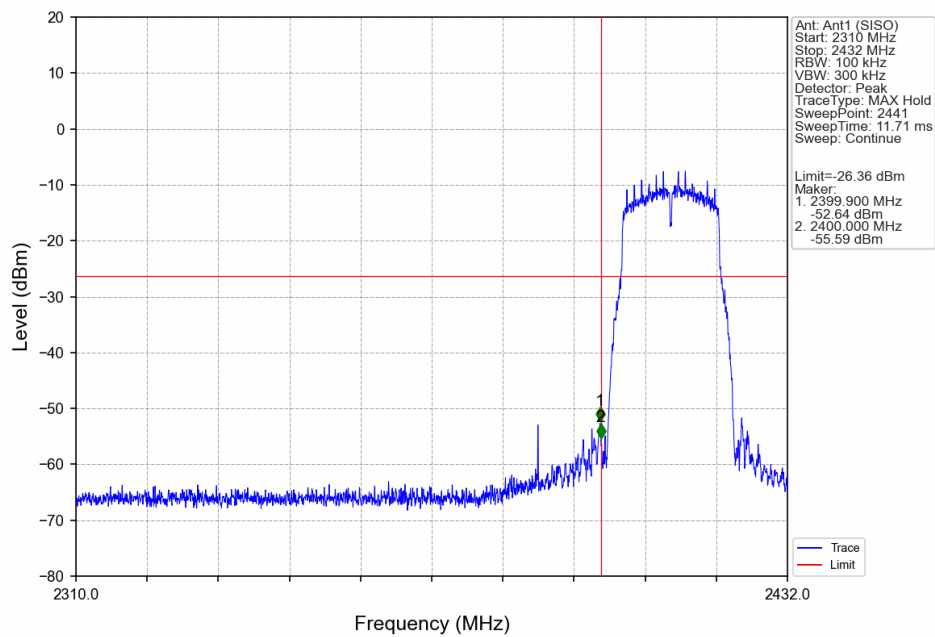
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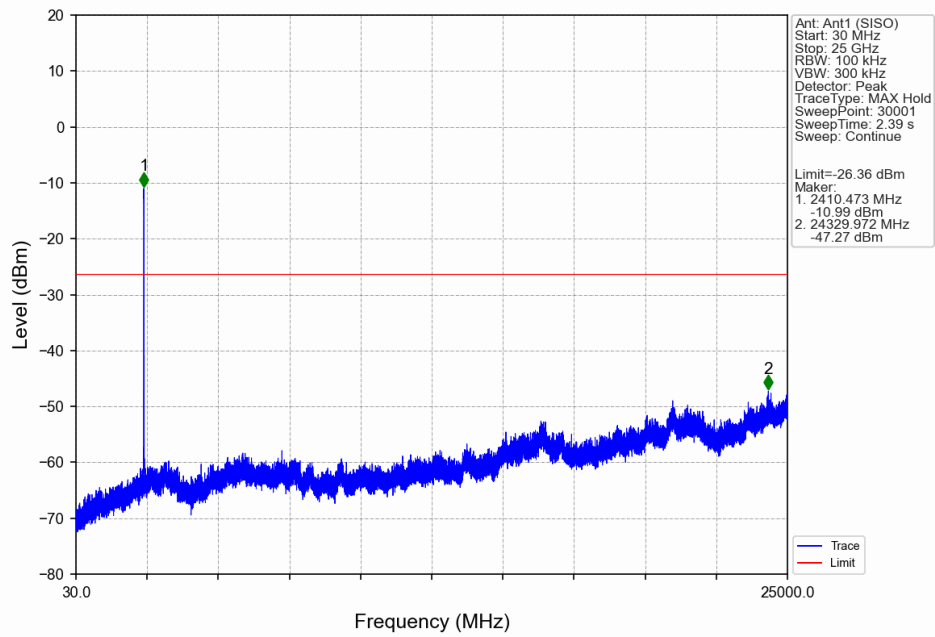
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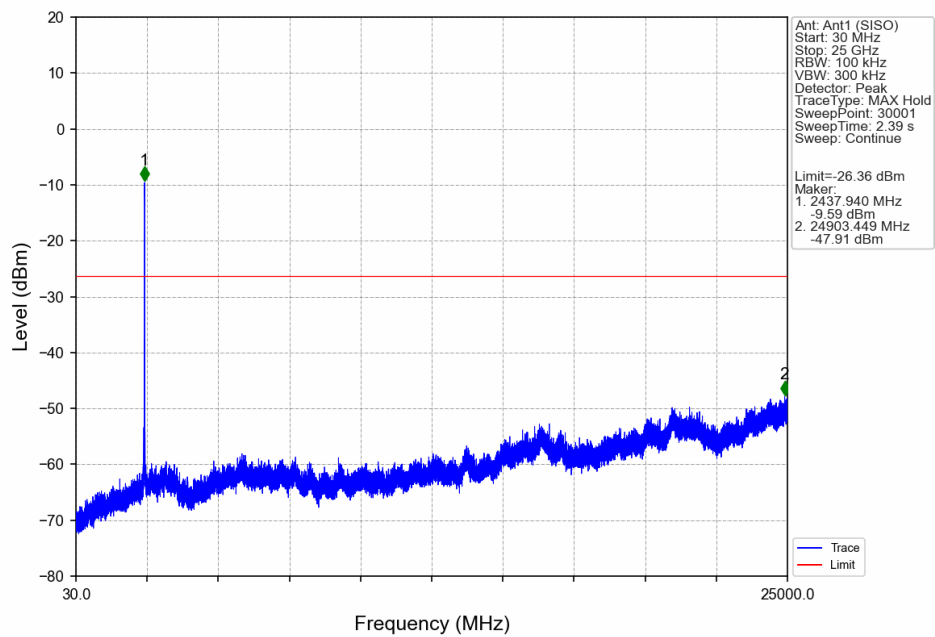
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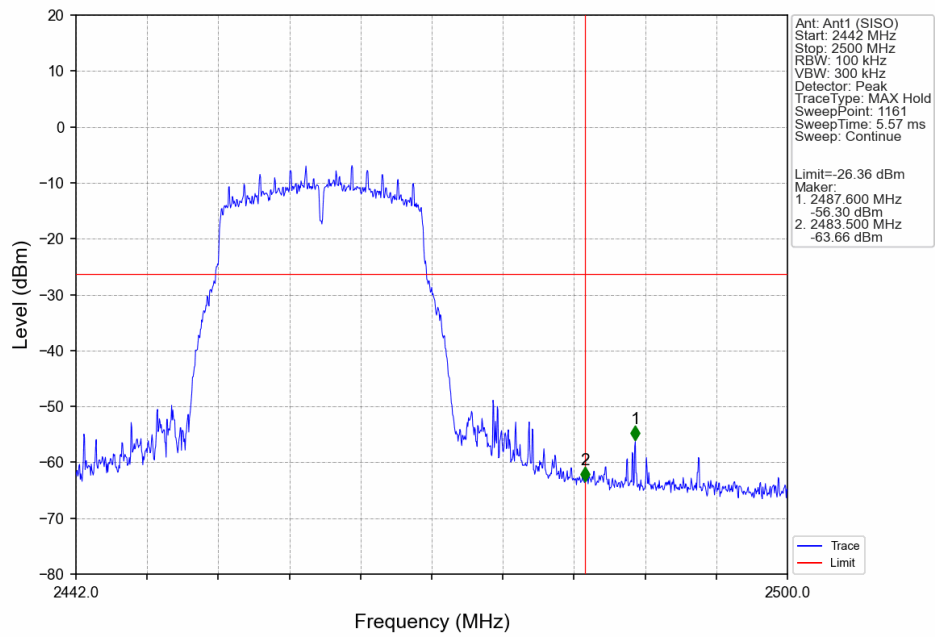
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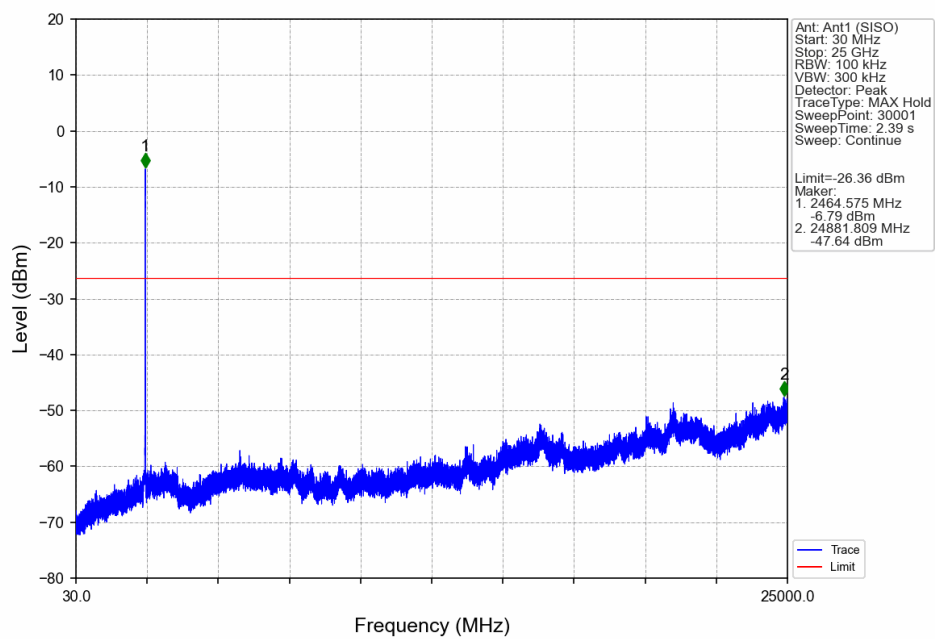
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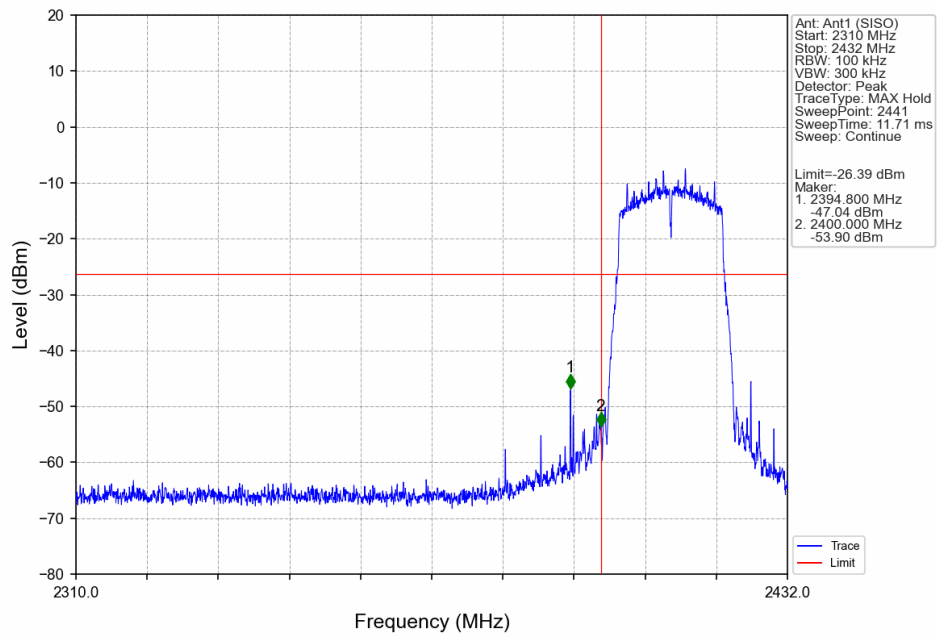
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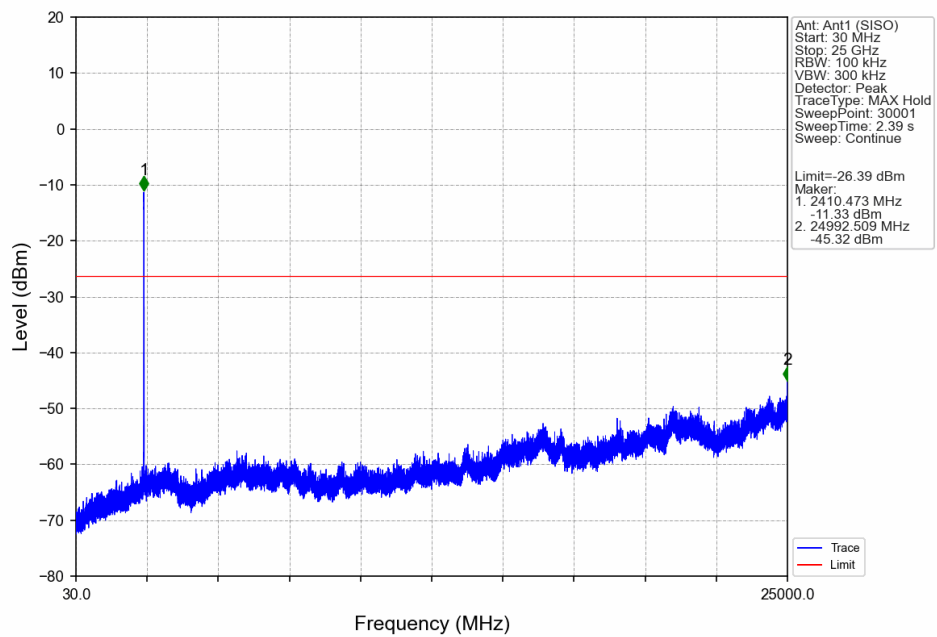
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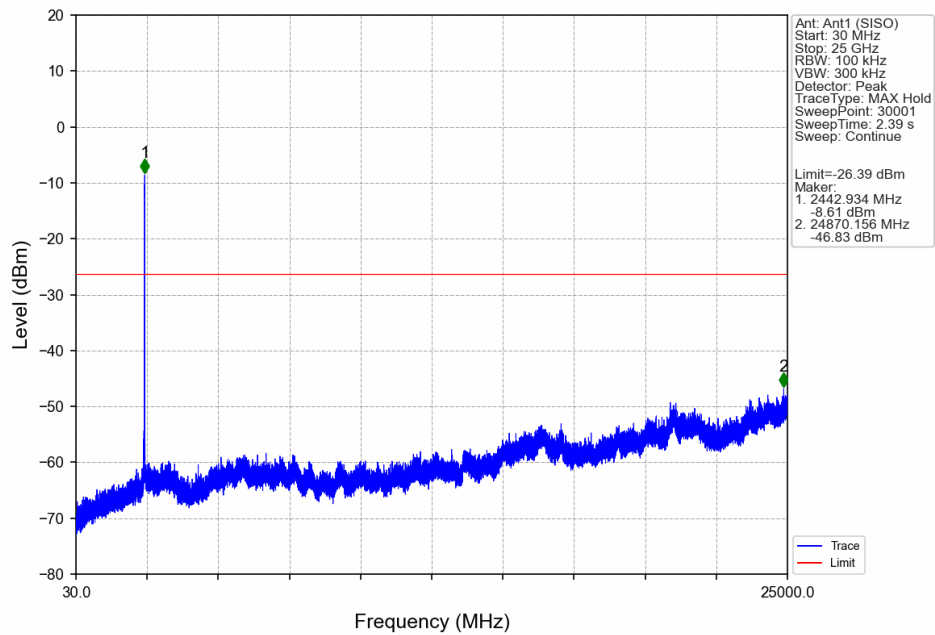
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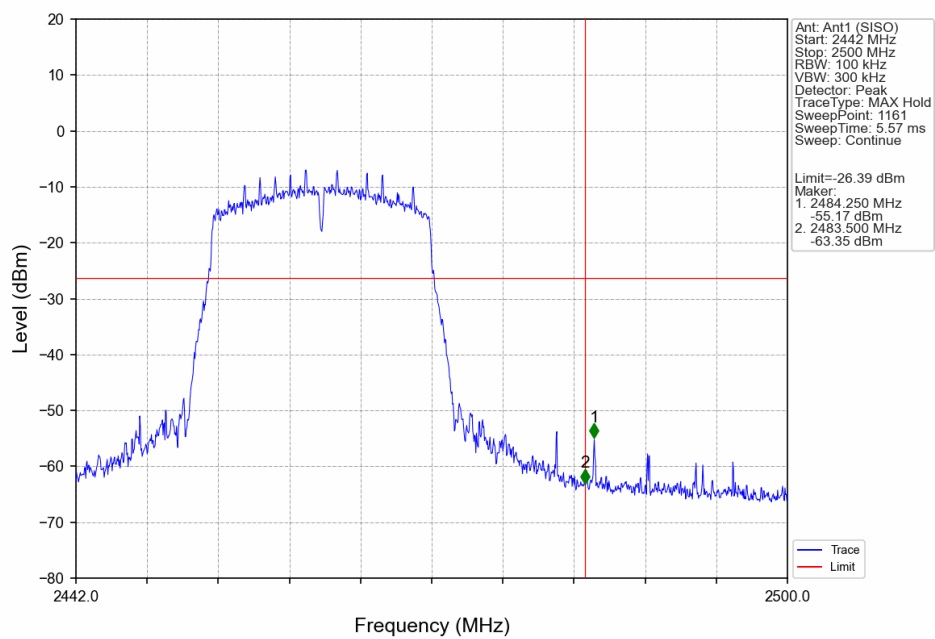
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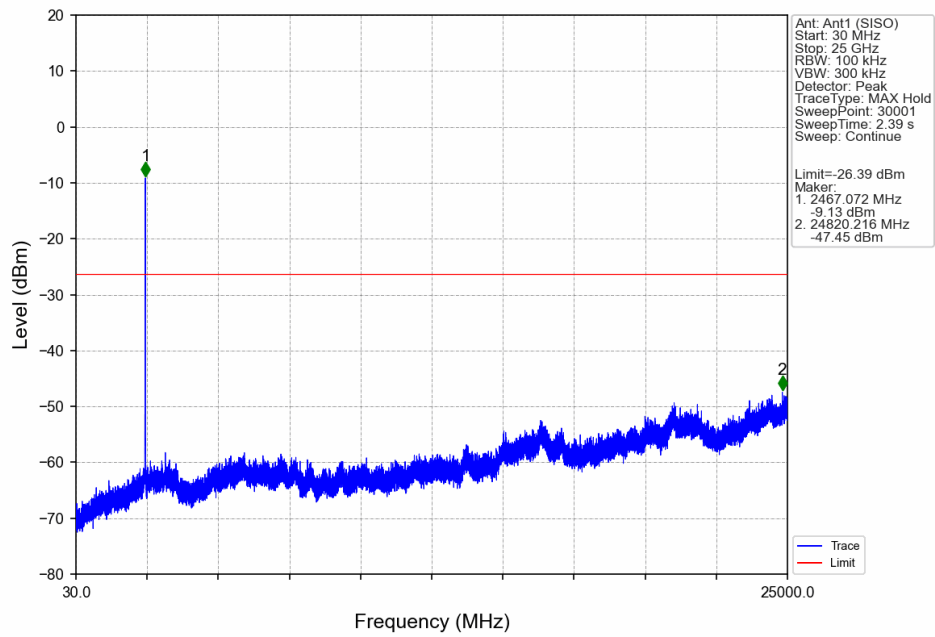
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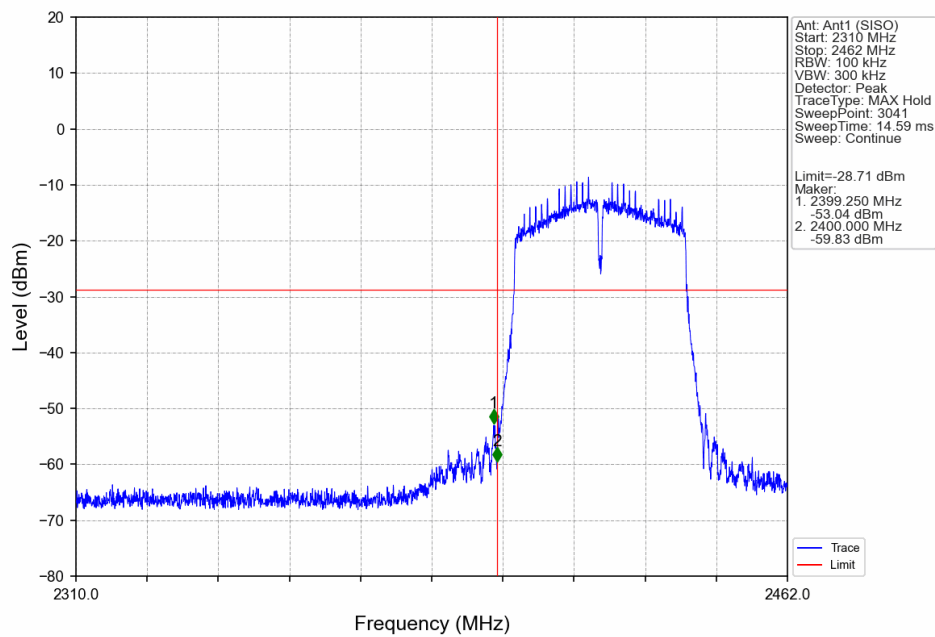
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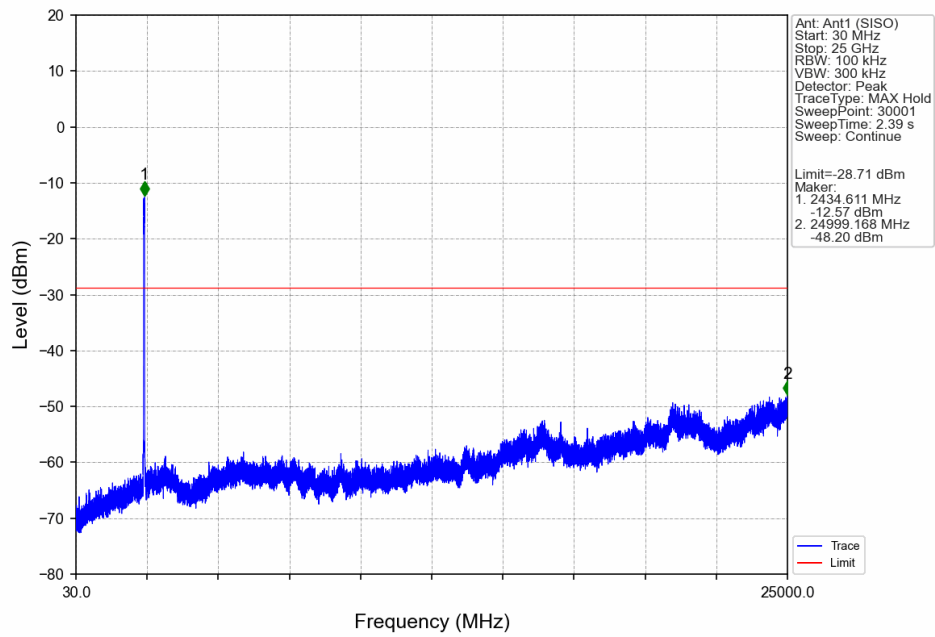
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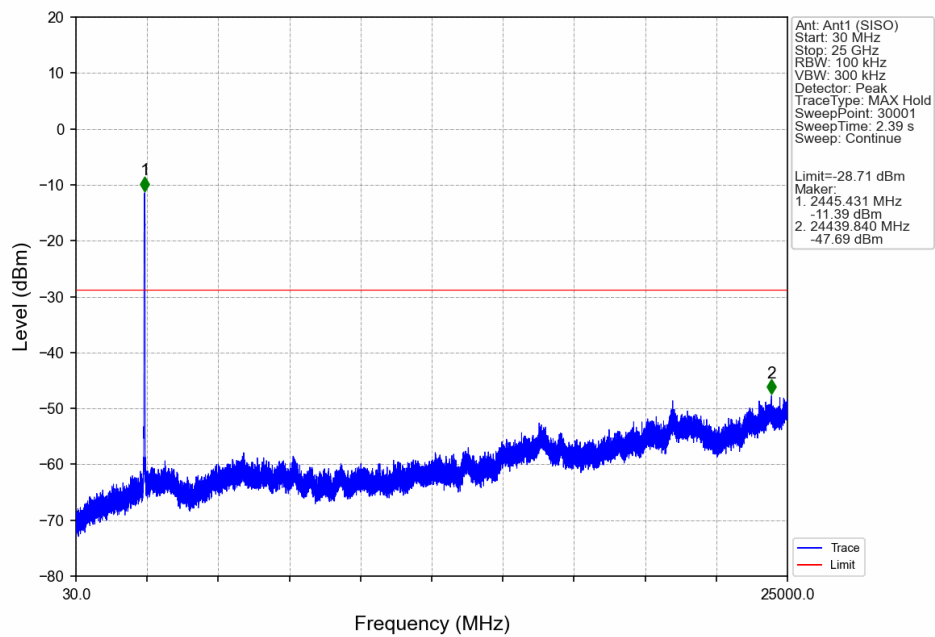
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



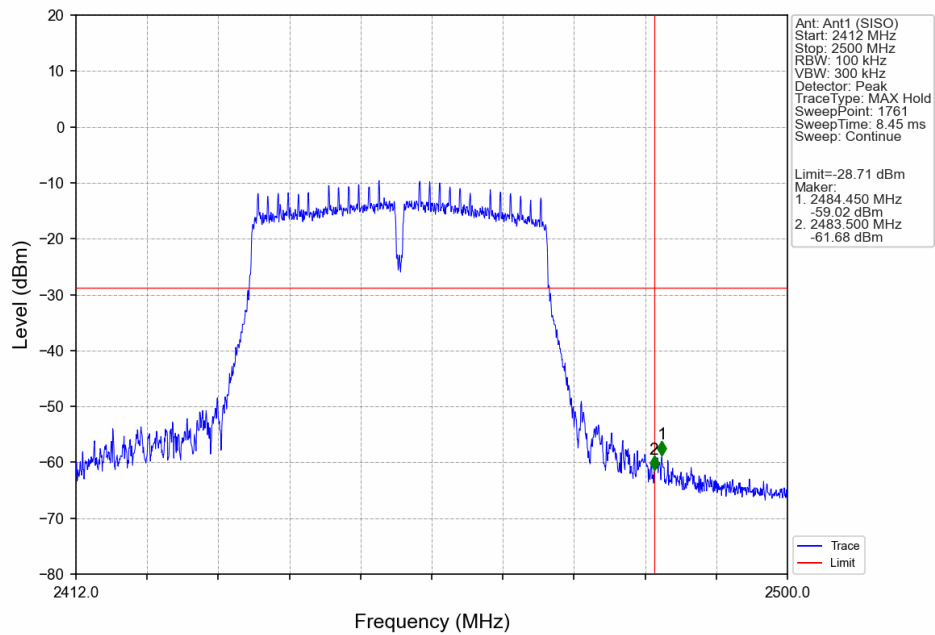
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



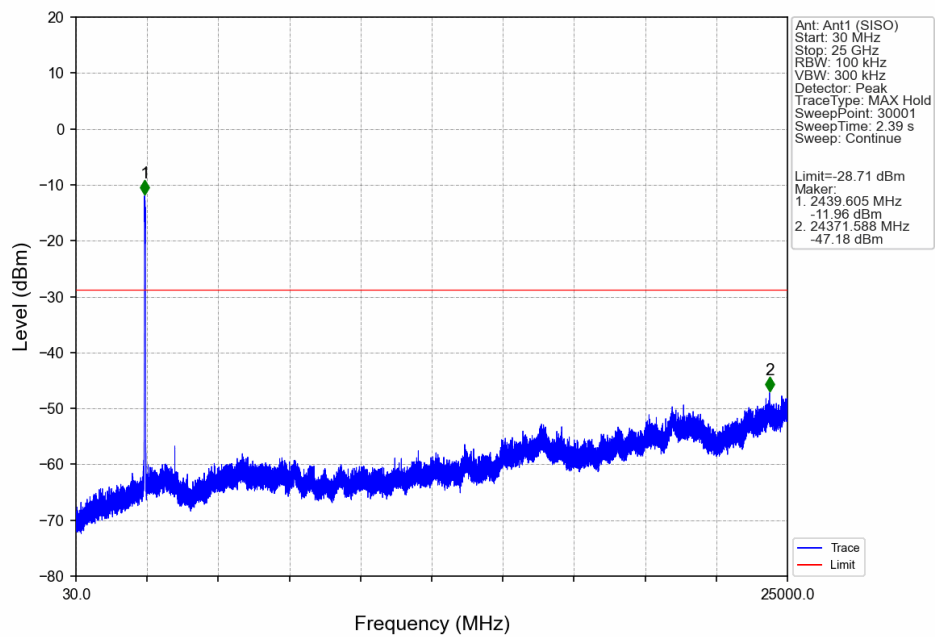
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



***** End of Report *****