

10 Appendix

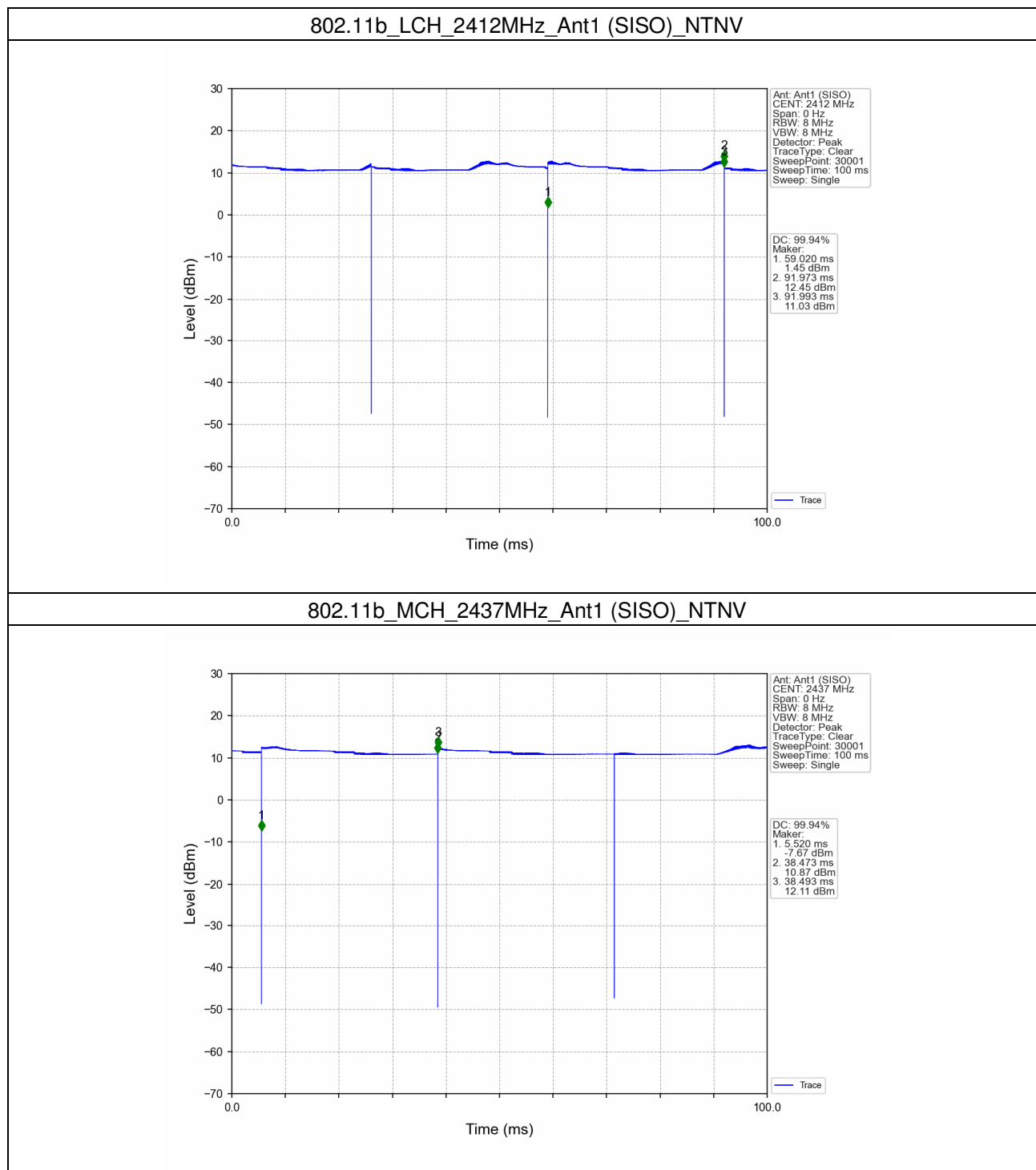
1. Duty Cycle

1.1 Ant1

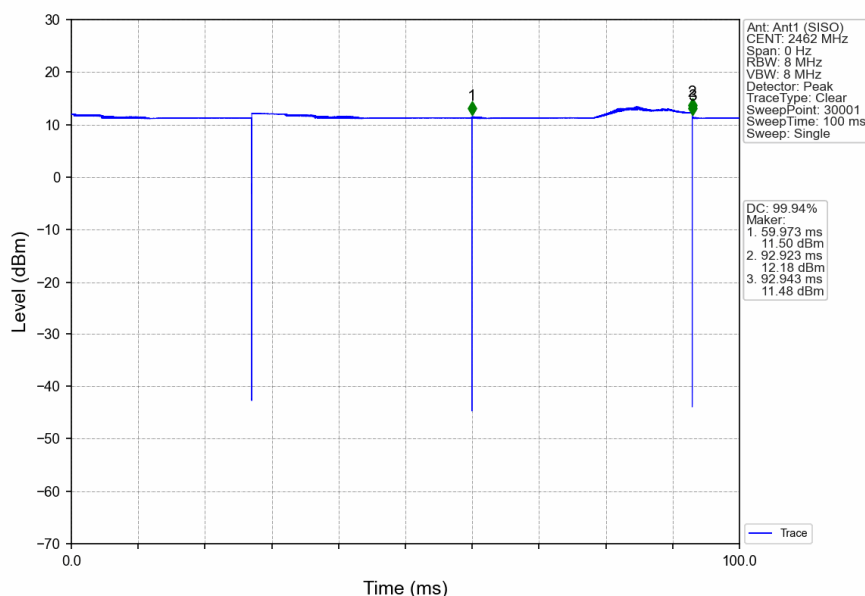
1.1.1 Test Result

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	32.953	32.973	99.94	0.00	0.01
		2437	32.953	32.973	99.94	0.00	0.00
		2462	32.950	32.970	99.94	0.00	0.00
802.11g	SISO	2412	5.484	5.510	99.53	0.02	0.29
		2437	43.772	44.078	99.31	0.03	0.00
		2462	5.484	5.510	99.53	0.02	0.03
802.11n (HT20)	SISO	2412	5.081	5.132	99.01	0.04	0.49
		2437	5.080	5.107	99.47	0.02	0.04
		2462	5.079	5.104	99.51	0.02	0.00
802.11n (HT40)	SISO	2422	2.468	2.493	99.00	0.04	0.00
		2437	2.468	2.493	99.00	0.04	0.03
		2452	2.469	2.494	99.00	0.04	0.03
1M	SISO	2402	2.099	2.500	83.96	0.76	0.03
		2440	2.099	2.500	83.96	0.76	0.03
		2480	2.099	2.500	83.96	0.76	0.03
2M	SISO	2402	1.064	1.876	56.72	2.46	0.03
		2440	1.063	1.875	56.69	2.46	0.05
		2480	1.063	1.875	56.69	2.46	0.03

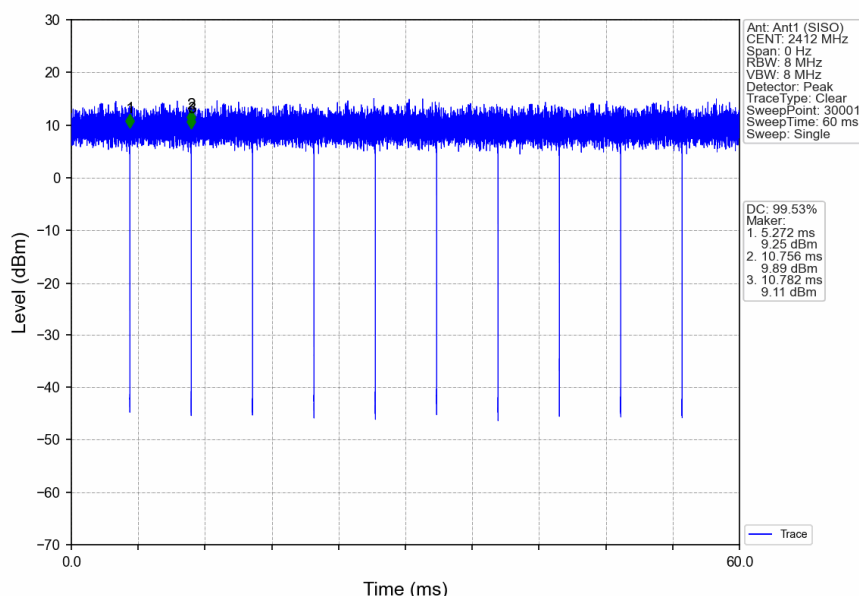
1.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

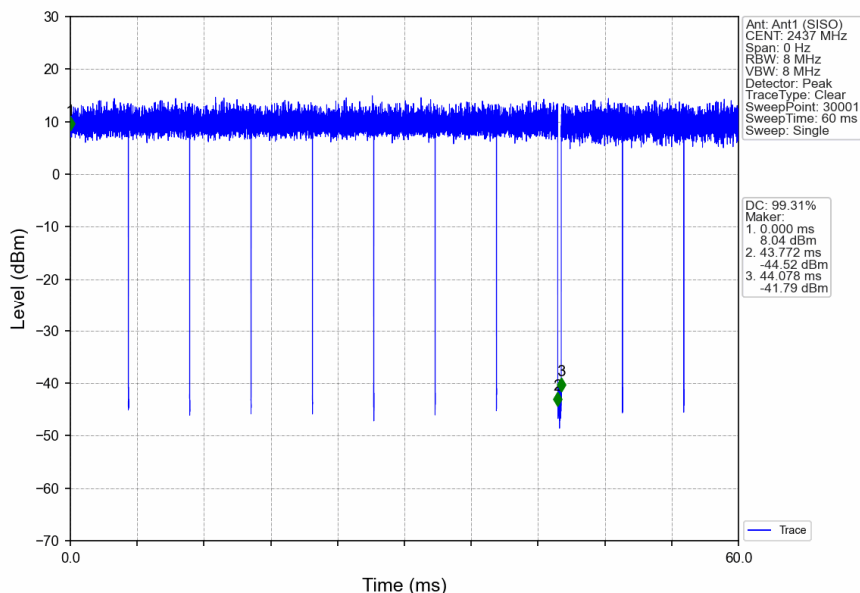


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

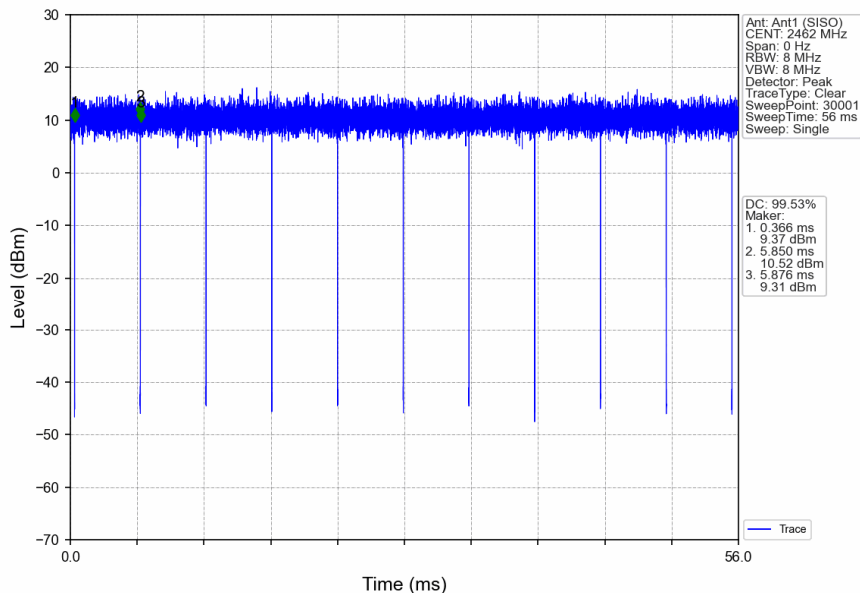


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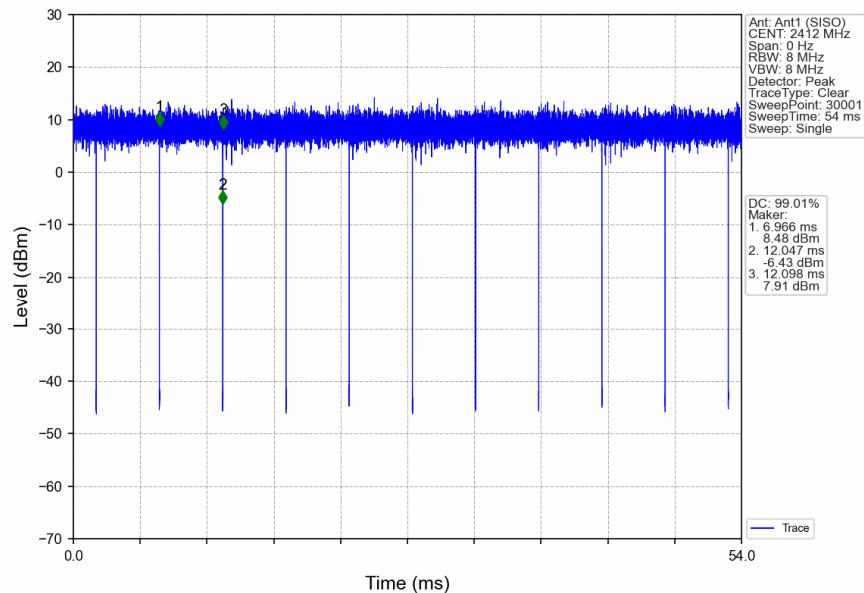
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



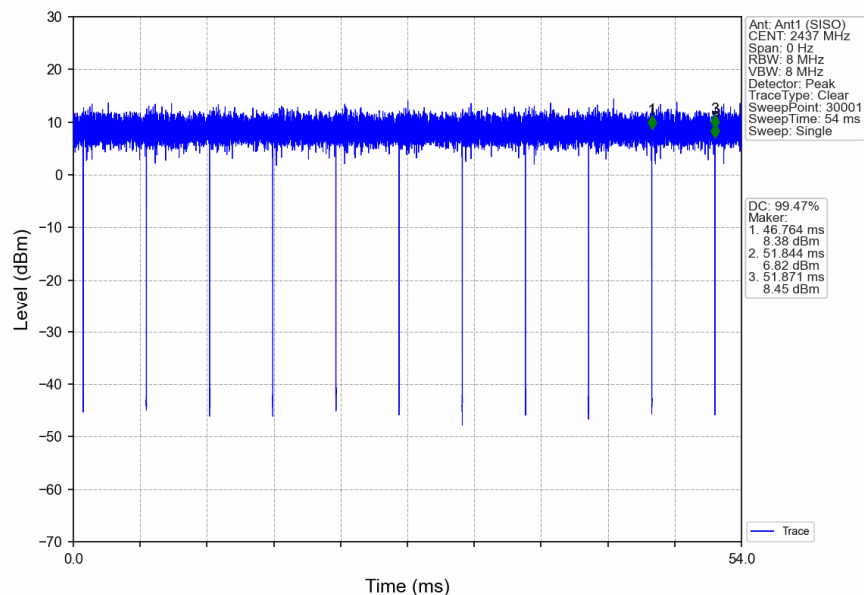
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



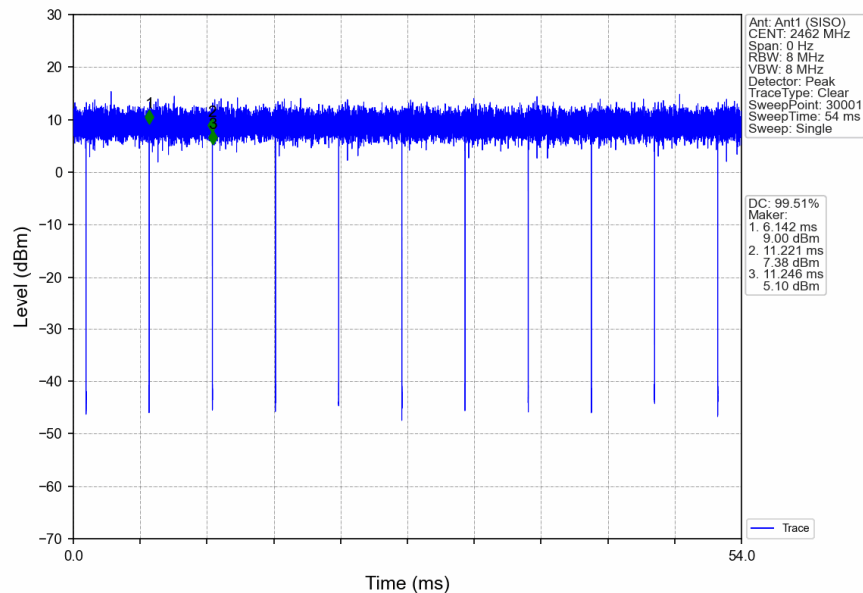
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



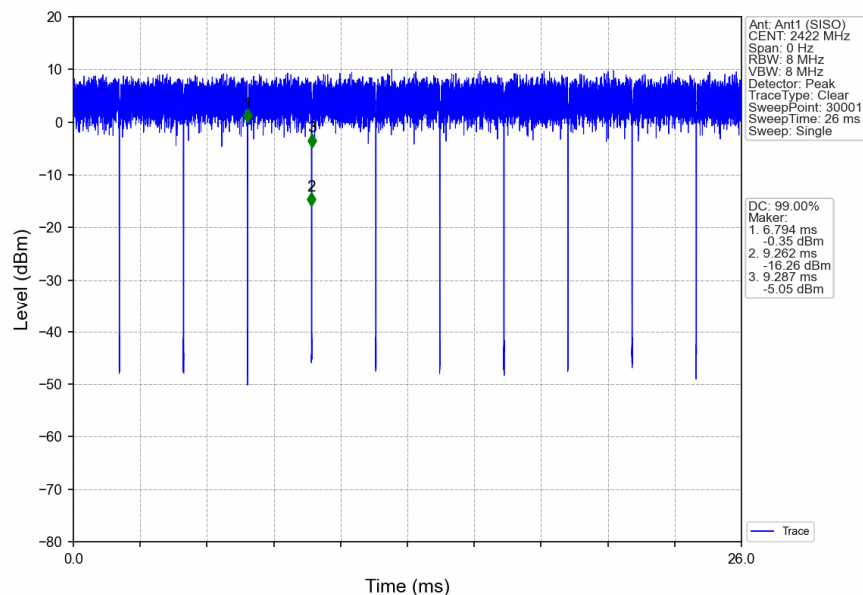
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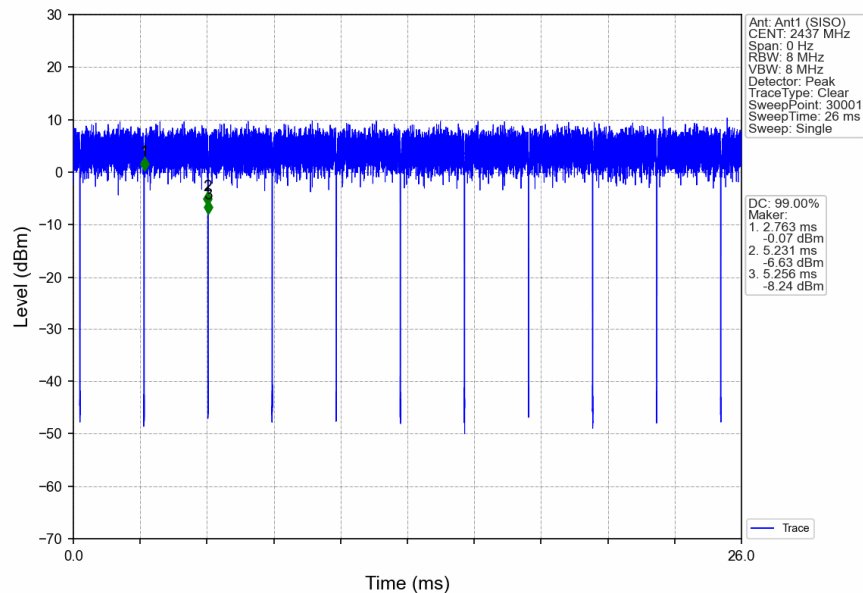
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



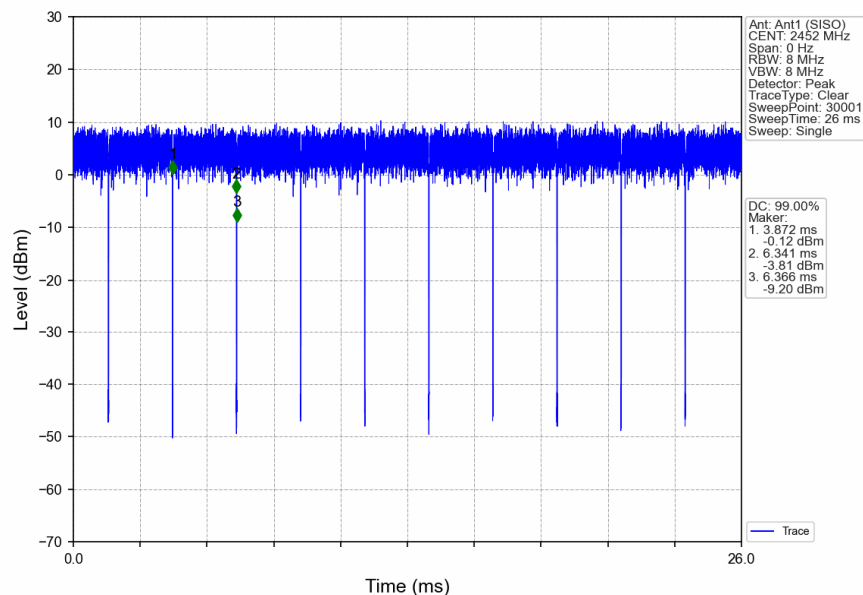
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



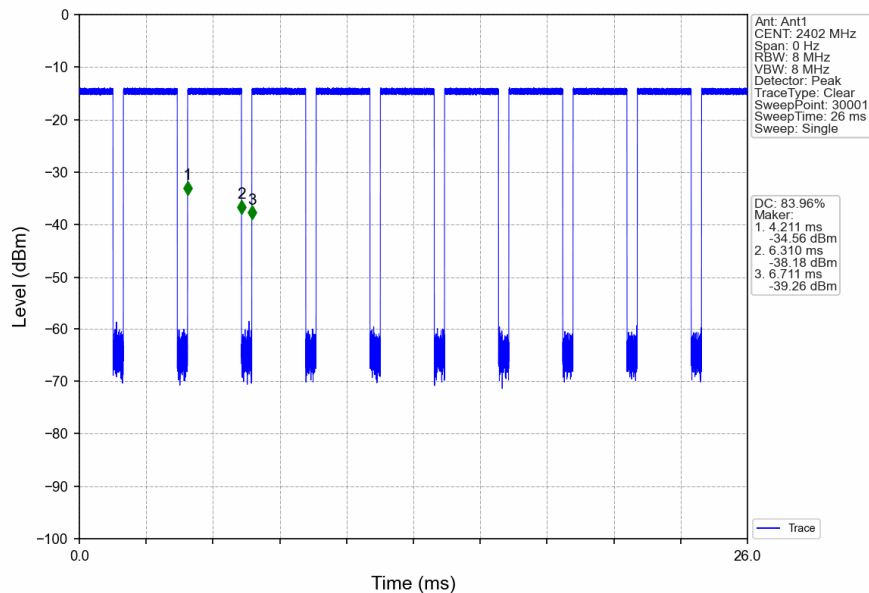
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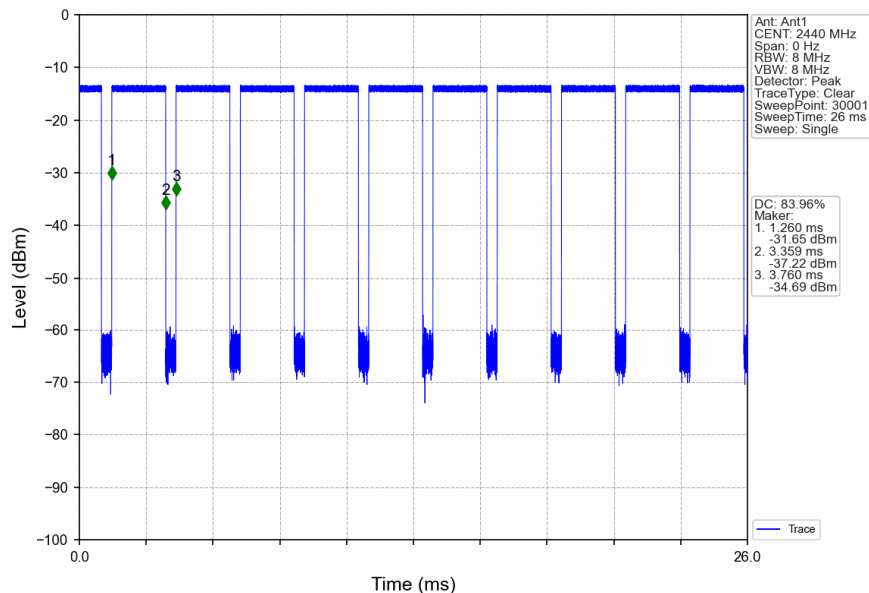
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



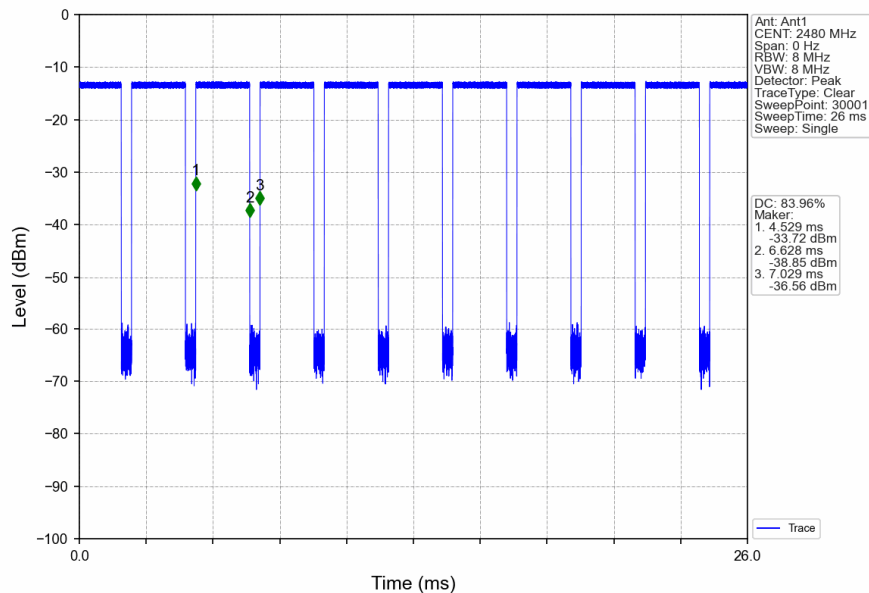
1M_LCH_2402MHz_Ant1_NTNV



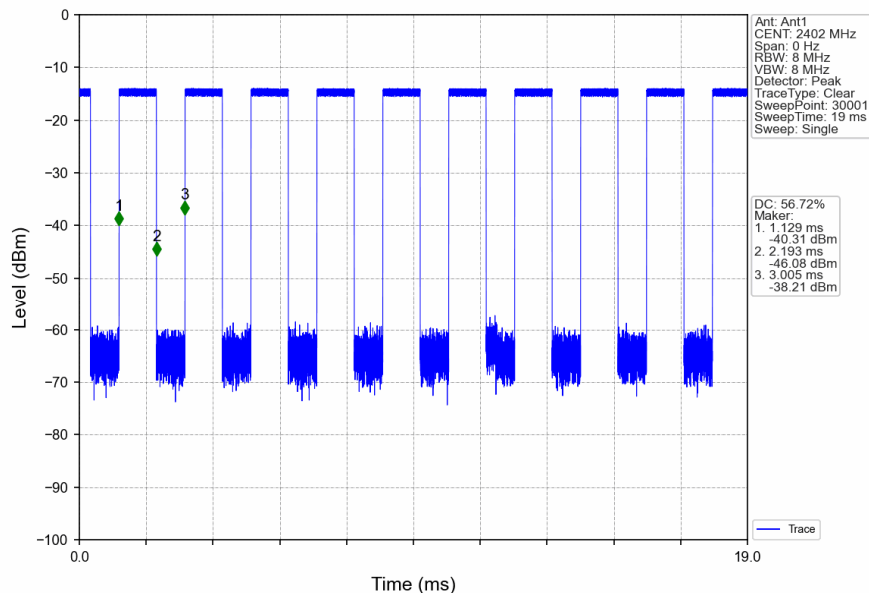
1M_MCH_2440MHz_Ant1_NTNV



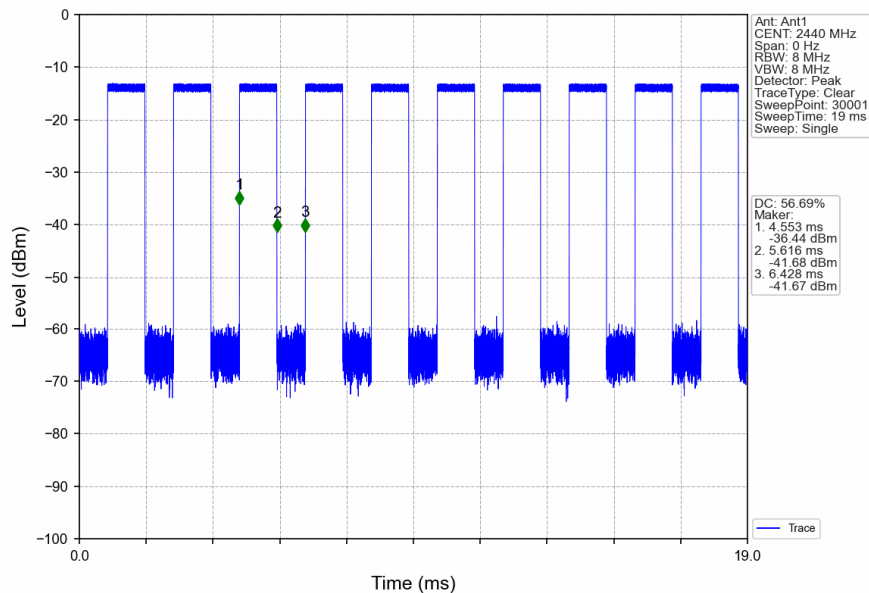
1M_HCH_2480MHz_Ant1_NTNV



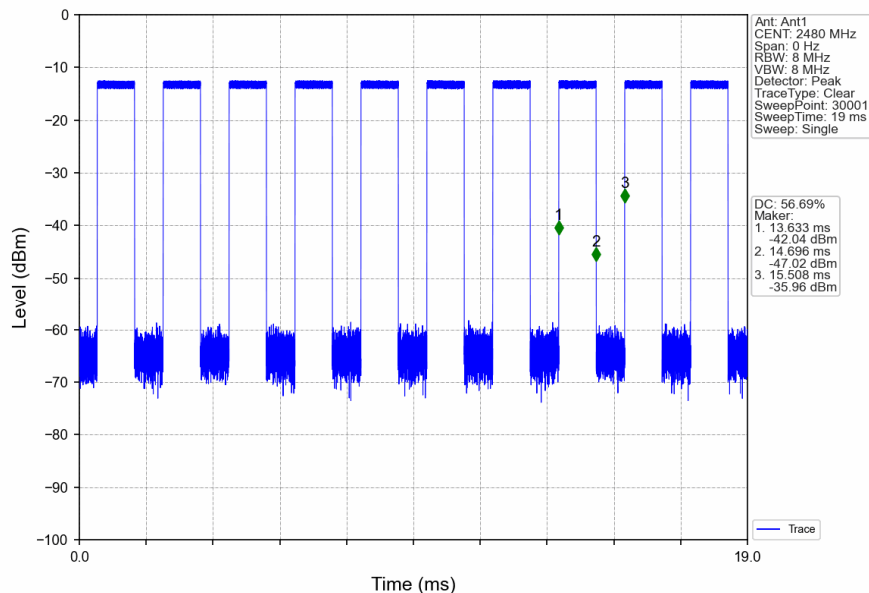
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



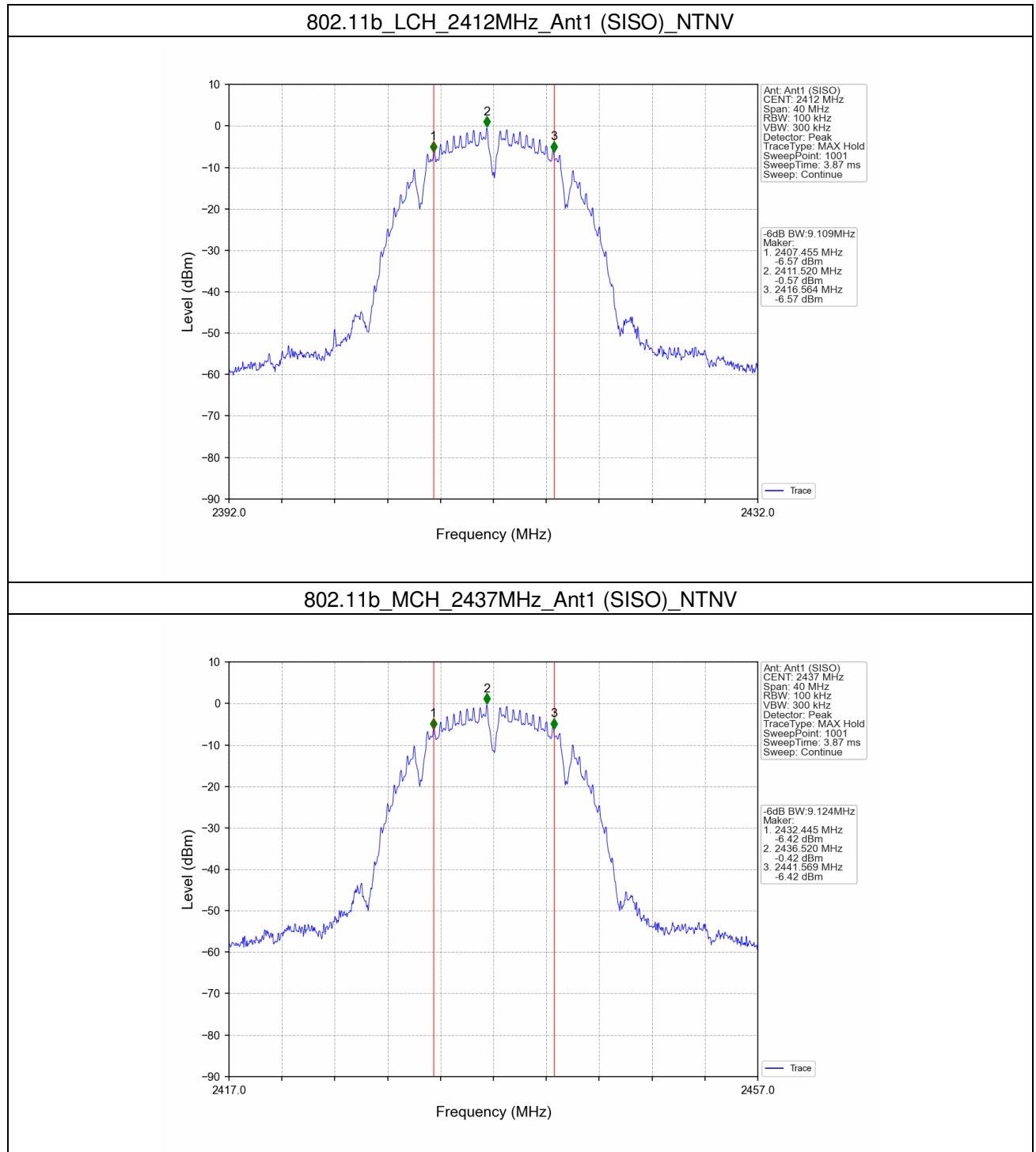
2. Bandwidth

2.1 6dB BW

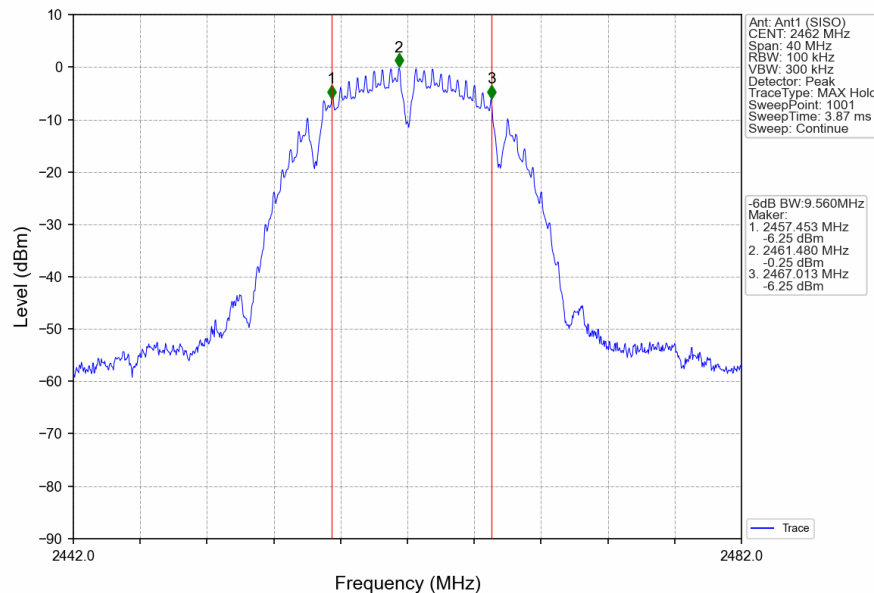
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.109	≥ 0.5	Pass
		2437	1	9.124	≥ 0.5	Pass
		2462	1	9.560	≥ 0.5	Pass
802.11g	SISO	2412	1	16.395	≥ 0.5	Pass
		2437	1	16.382	≥ 0.5	Pass
		2462	1	16.369	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.536	≥ 0.5	Pass
		2437	1	17.604	≥ 0.5	Pass
		2462	1	17.571	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	32.591	≥ 0.5	Pass
		2437	1	32.670	≥ 0.5	Pass
		2452	1	32.680	≥ 0.5	Pass
1M	SISO	2402	1	0.641	≥ 0.5	Pass
		2440	1	0.640	≥ 0.5	Pass
		2480	1	0.640	≥ 0.5	Pass
2M	SISO	2402	1	1.113	≥ 0.5	Pass
		2440	1	1.105	≥ 0.5	Pass
		2480	1	1.115	≥ 0.5	Pass

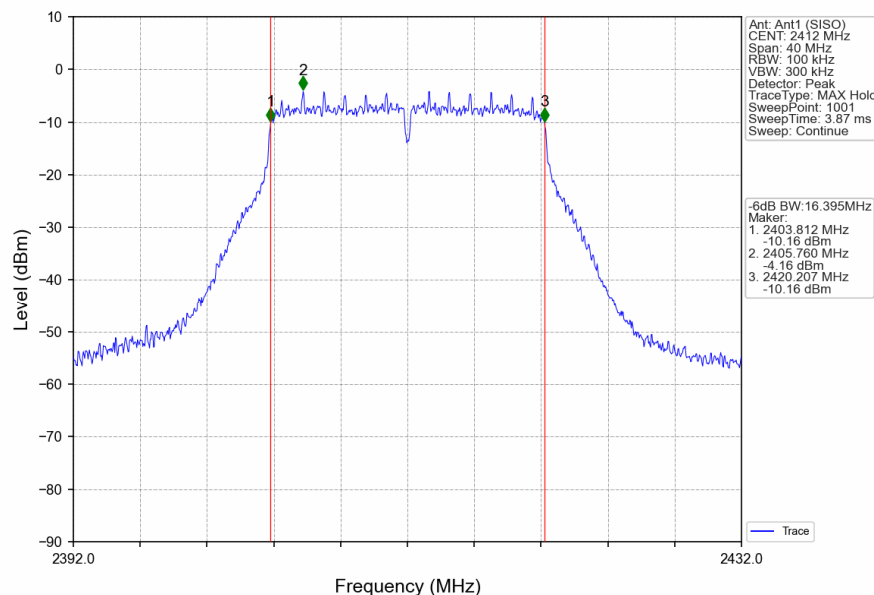
2.2.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



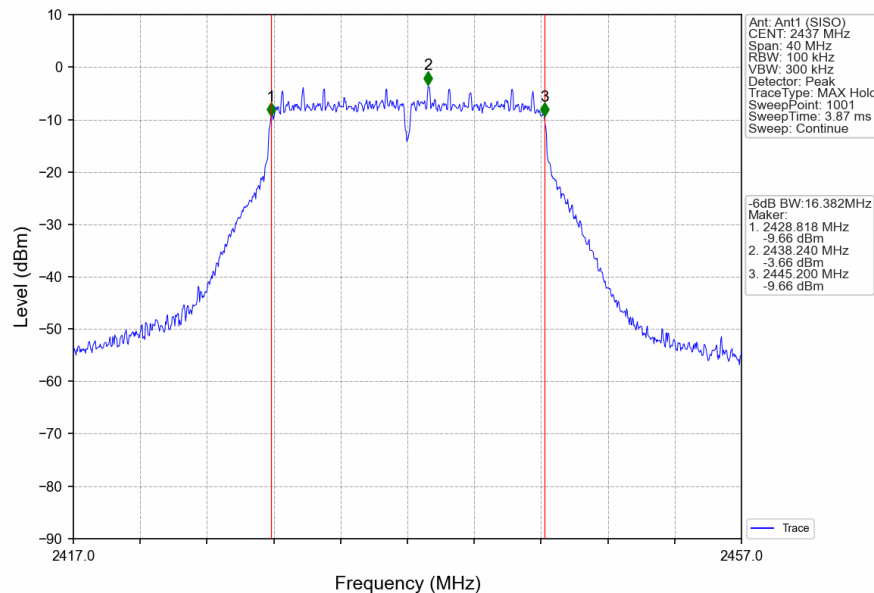
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



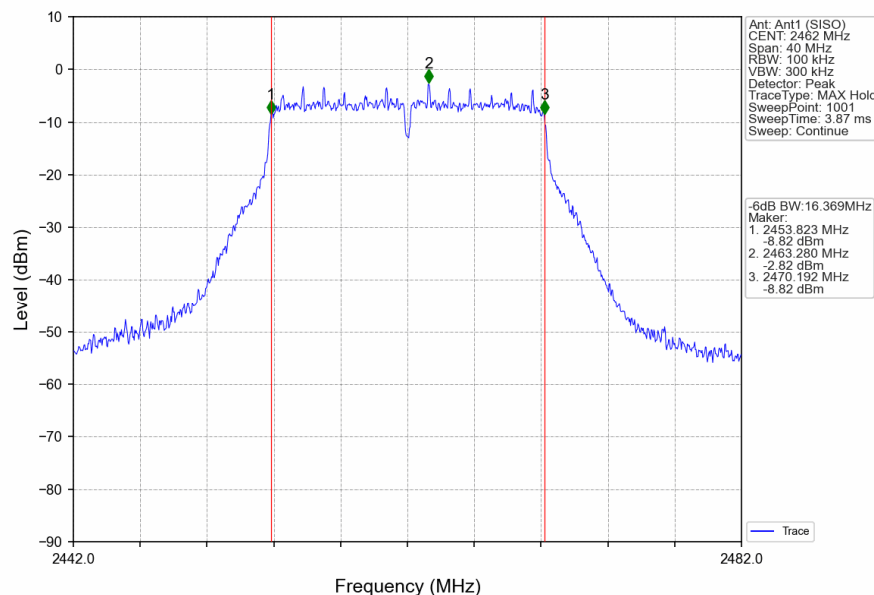
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



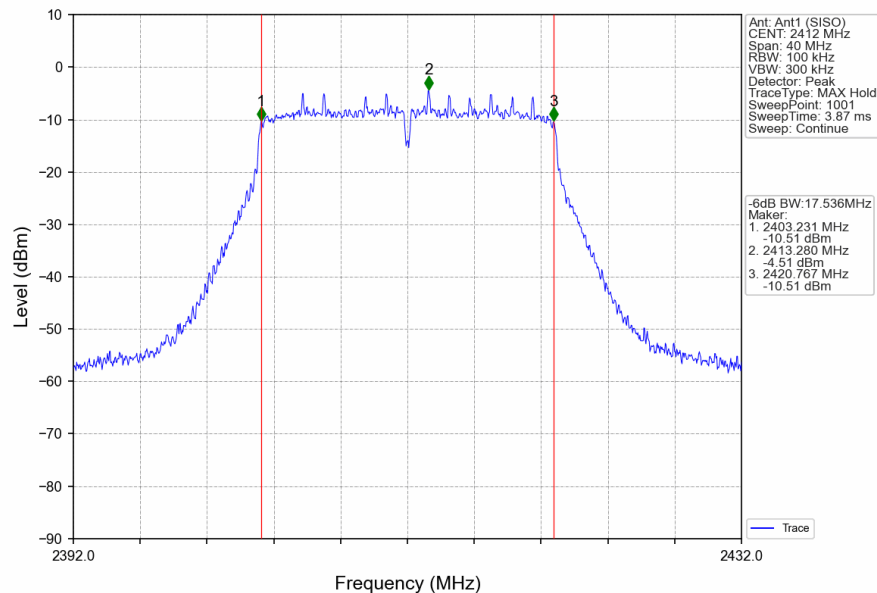
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



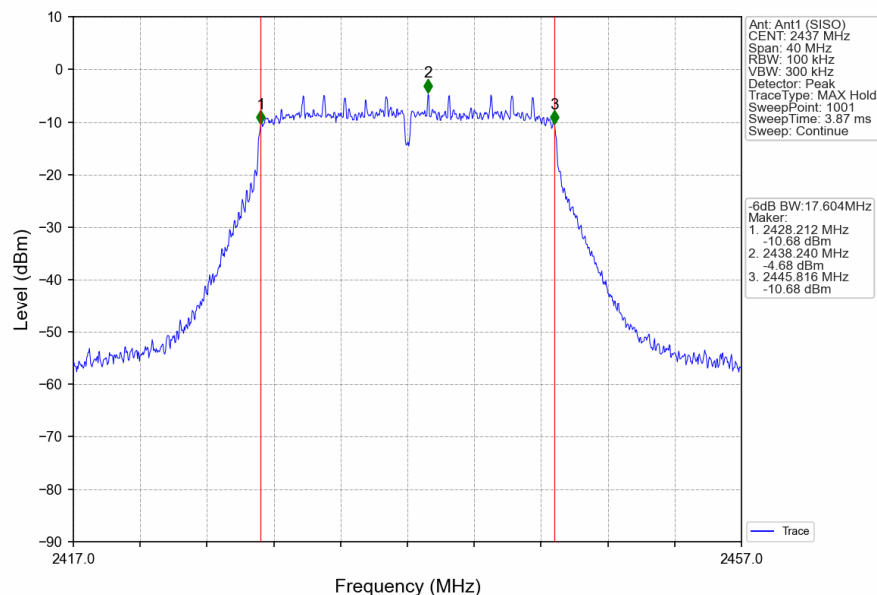
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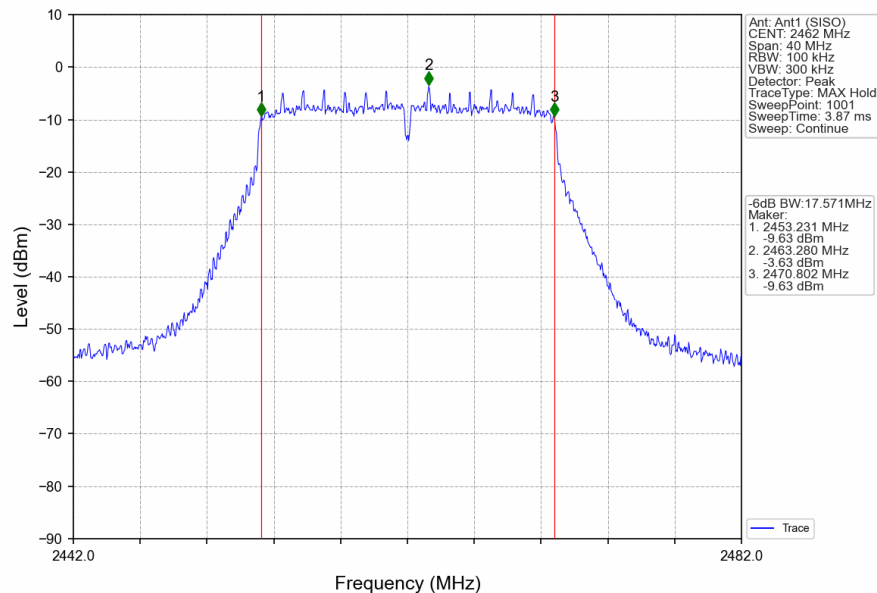
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



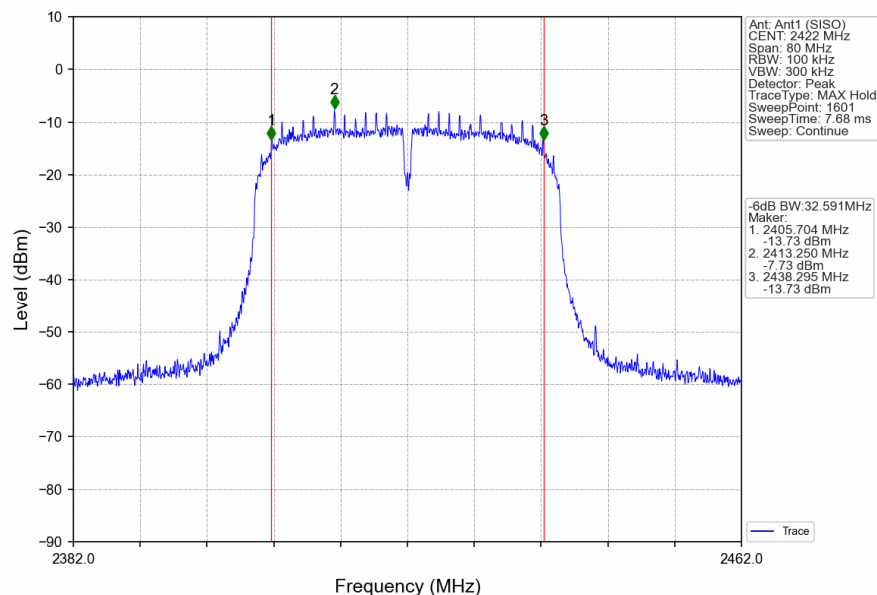
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



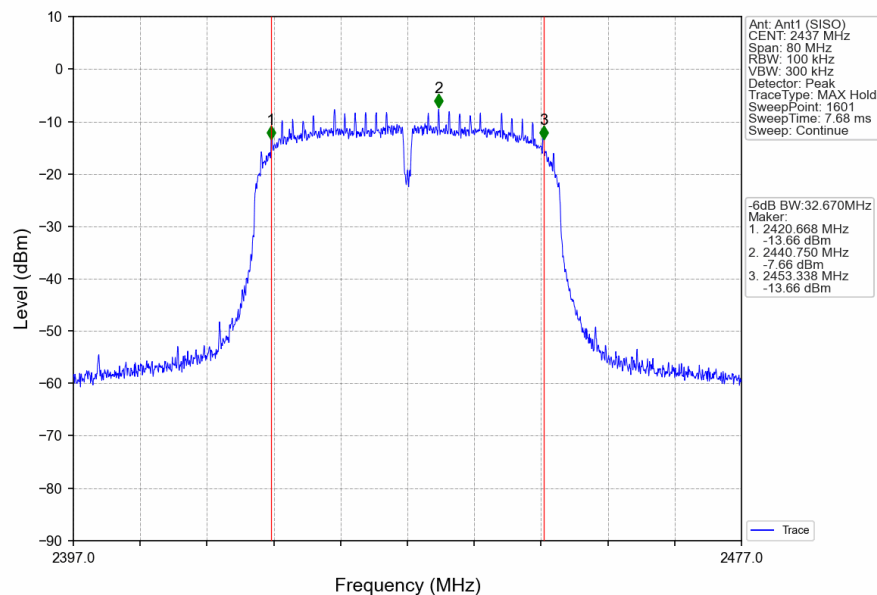
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



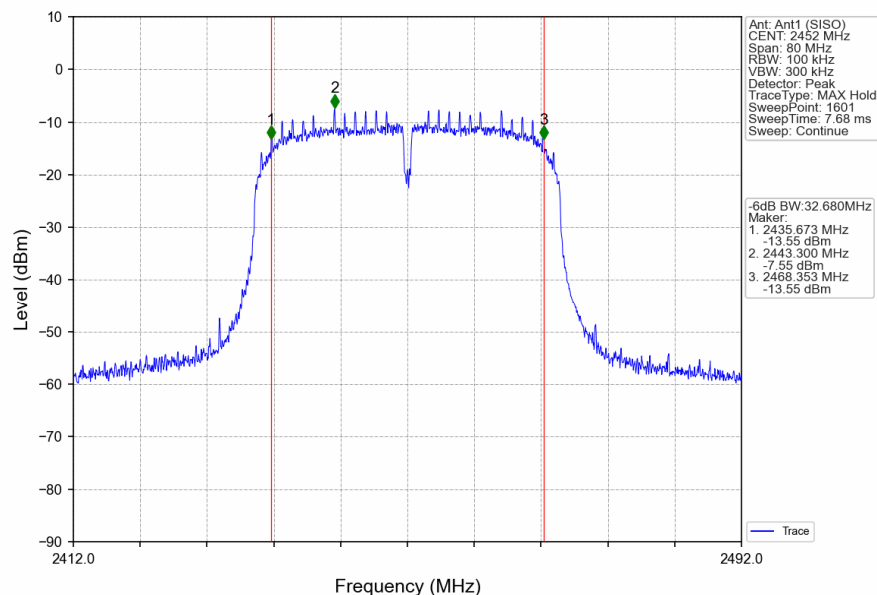
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



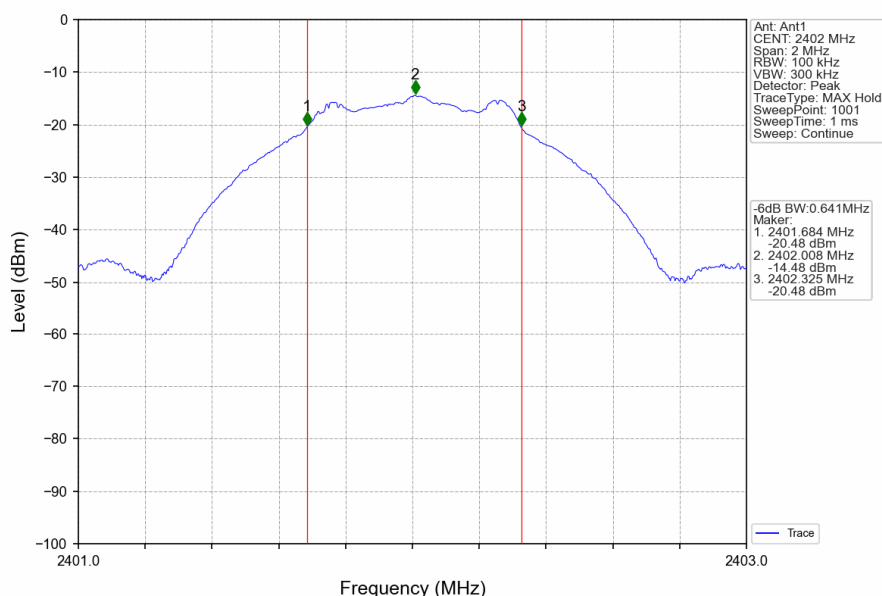
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



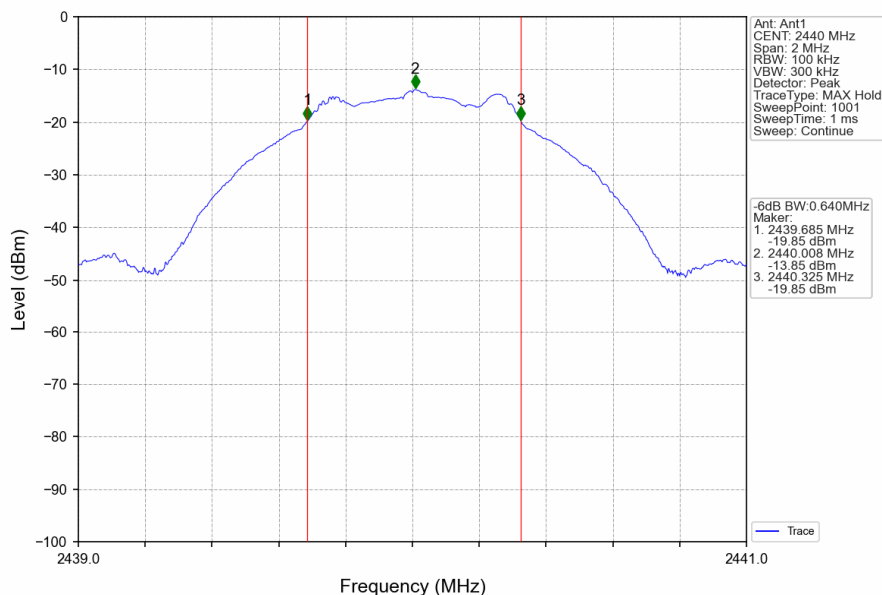
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1M_LCH_2402MHz_Ant1_NTNV



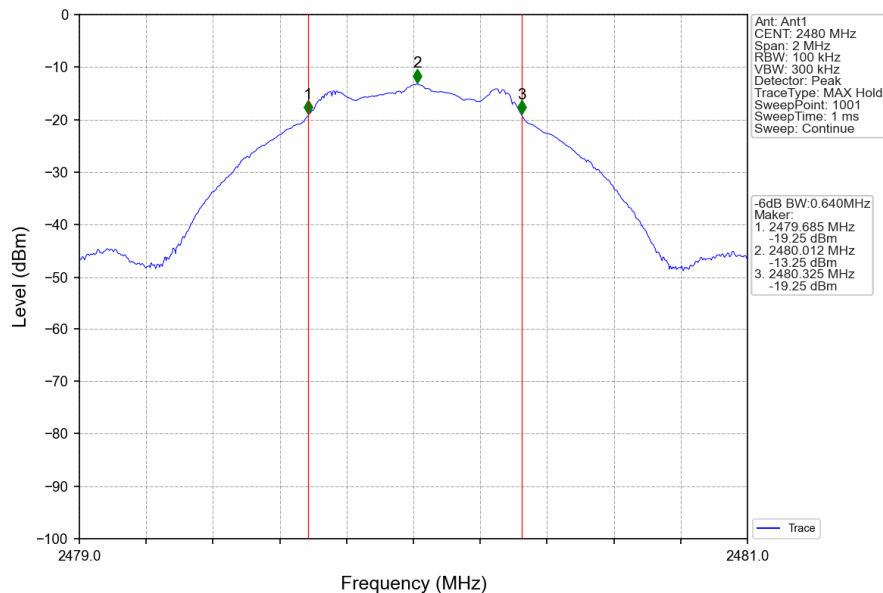
1M_MCH_2440MHz_Ant1_NTNV



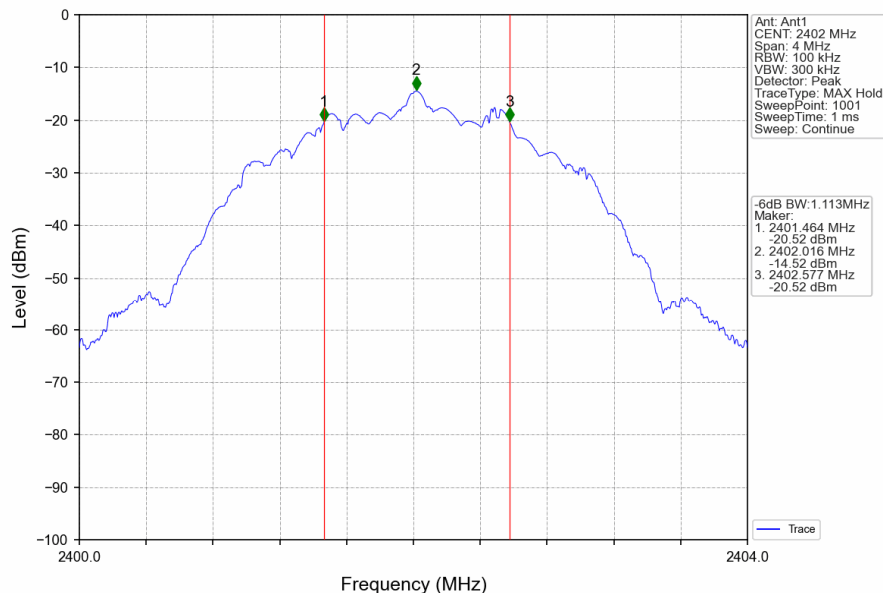
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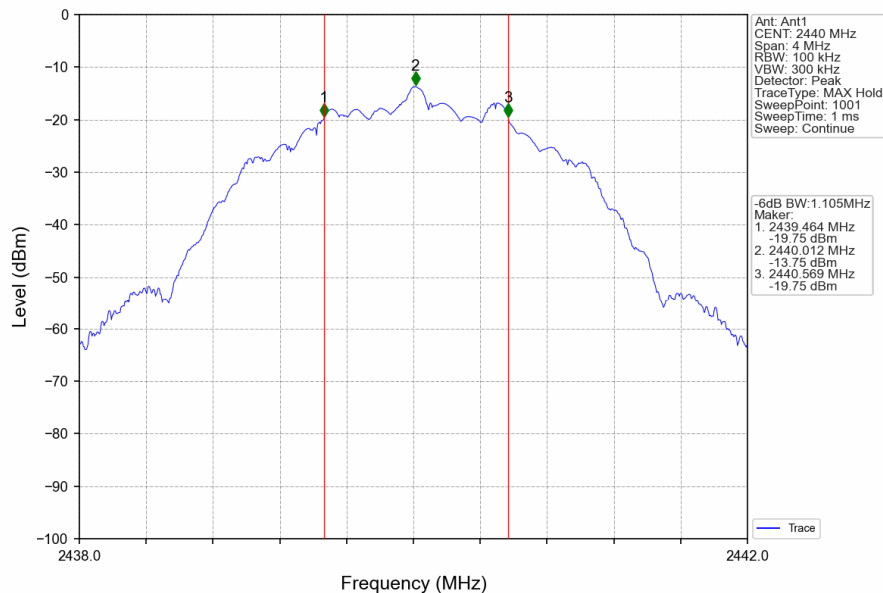
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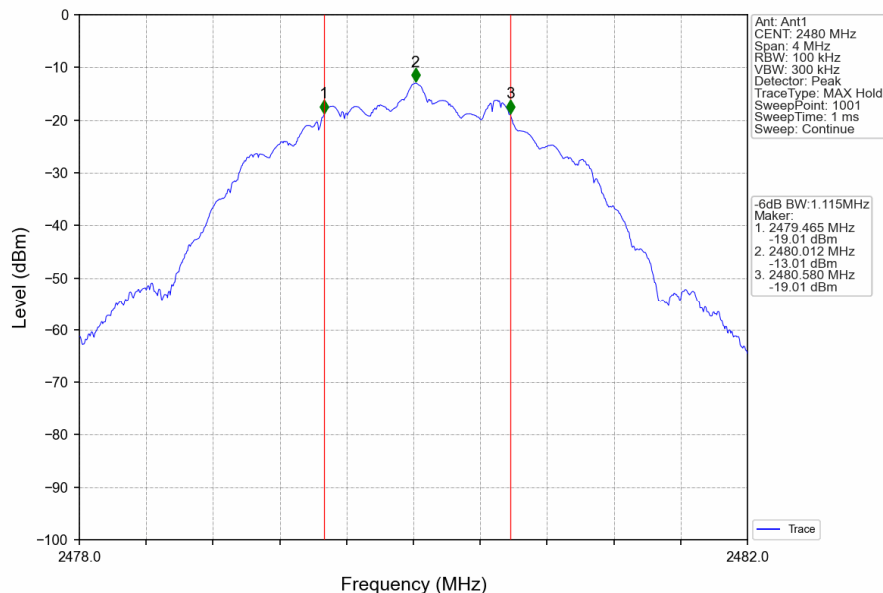
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	10.31	<=30	Pass
		2437	10.42	<=30	Pass
		2462	11.02	<=30	Pass
802.11g	SISO	2412	15.11	<=30	Pass
		2437	15.27	<=30	Pass
		2462	15.95	<=30	Pass
802.11n (HT20)	SISO	2412	14.18	<=30	Pass
		2437	14.39	<=30	Pass
		2462	15.07	<=30	Pass
802.11n (HT40)	SISO	2422	13.56	<=30	Pass
		2437	13.66	<=30	Pass
		2452	13.97	<=30	Pass
1M	SISO	2402	-14.26	<=30	Pass
		2440	-13.68	<=30	Pass
		2480	-13.07	<=30	Pass
2M	SISO	2402	-14.27	<=30	Pass
		2440	-13.44	<=30	Pass
		2480	-12.82	<=30	Pass

Note1: Antenna Gain: Ant1: 3.37 dBi;

4. Maximum Power Spectral Density

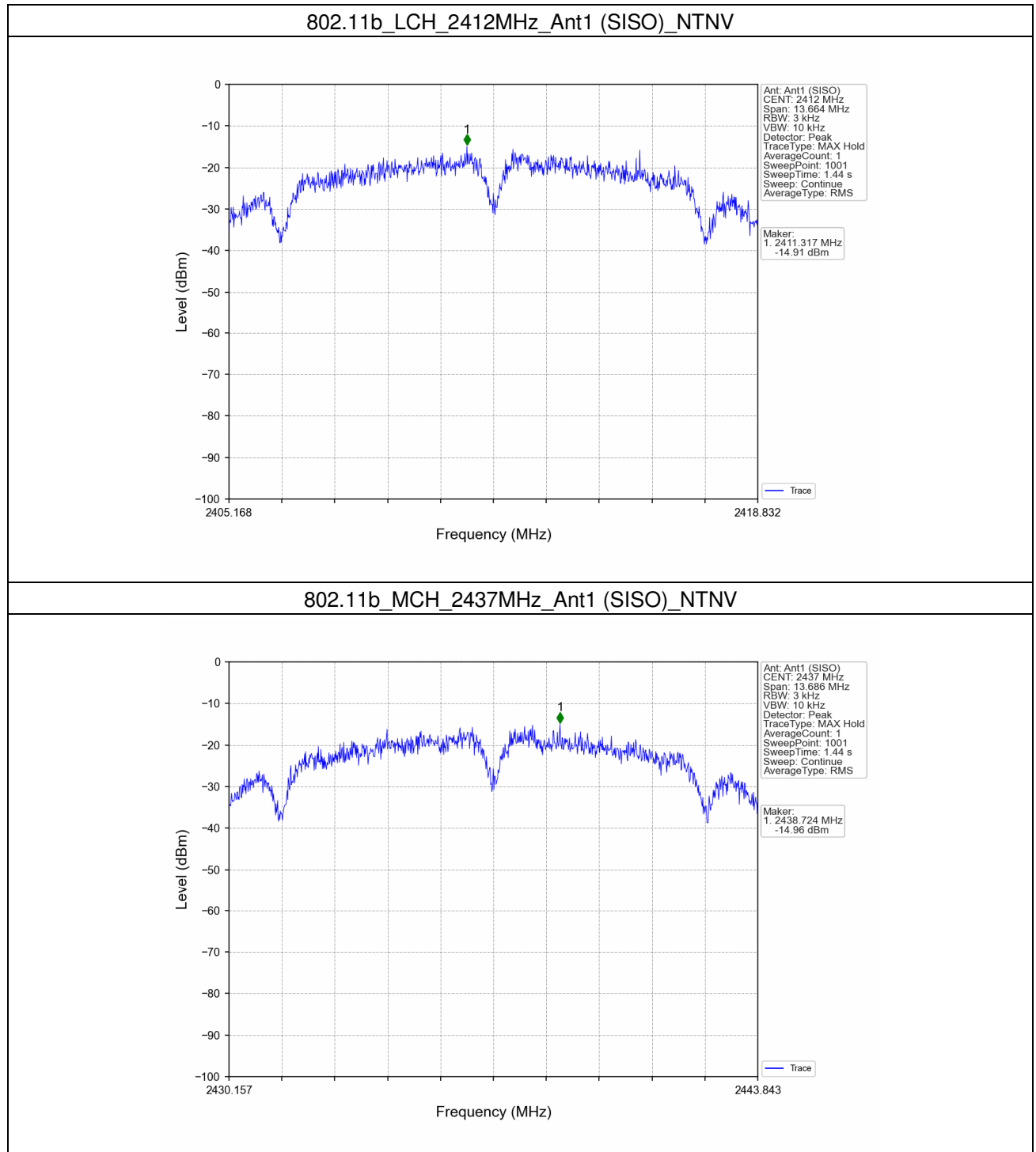
4.1 PSD

4.1.1 Test Result

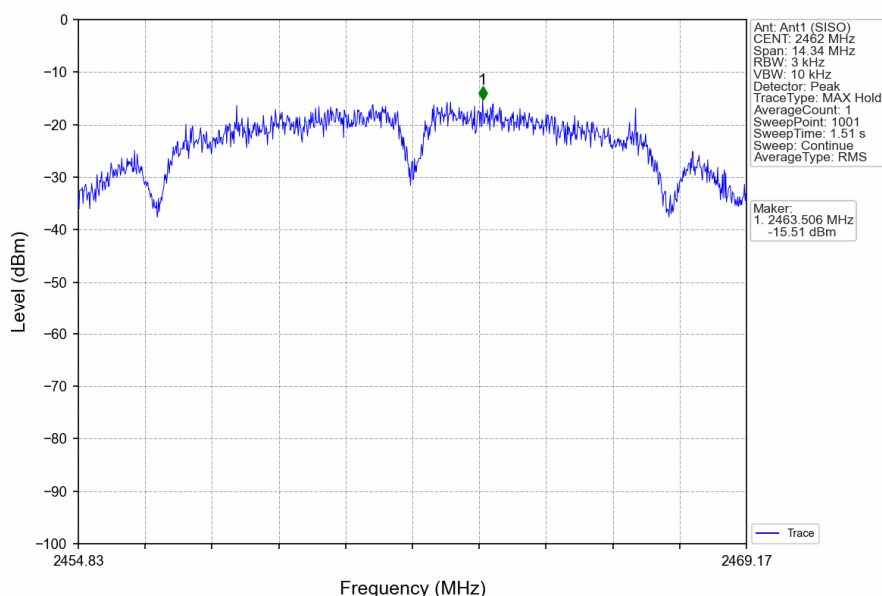
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-14.91	<=8	Pass
		2437	-14.96	<=8	Pass
		2462	-15.51	<=8	Pass
802.11g	SISO	2412	-17.67	<=8	Pass
		2437	-17.85	<=8	Pass
		2462	-17.86	<=8	Pass
802.11n (HT20)	SISO	2412	-18.95	<=8	Pass
		2437	-18.37	<=8	Pass
		2462	-17.46	<=8	Pass
802.11n (HT40)	SISO	2422	-21.34	<=8	Pass
		2437	-21.37	<=8	Pass
		2452	-20.84	<=8	Pass
1M	SISO	2402	-29.24	<=8	Pass
		2440	-28.97	<=8	Pass
		2480	-28.29	<=8	Pass
2M	SISO	2402	-31.67	<=8	Pass
		2440	-30.82	<=8	Pass
		2480	-30.29	<=8	Pass

Note1: Antenna Gain: Ant1: 3.37dBi;

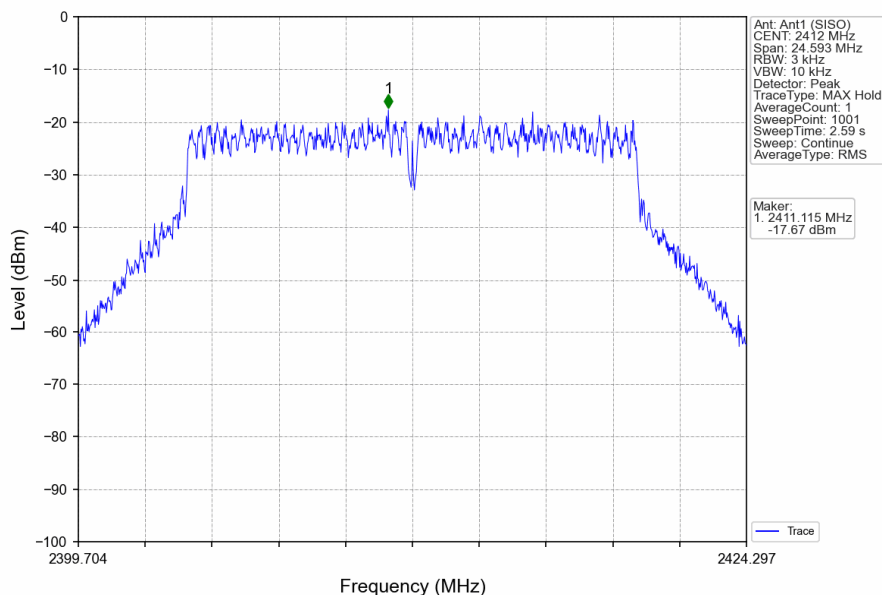
4.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



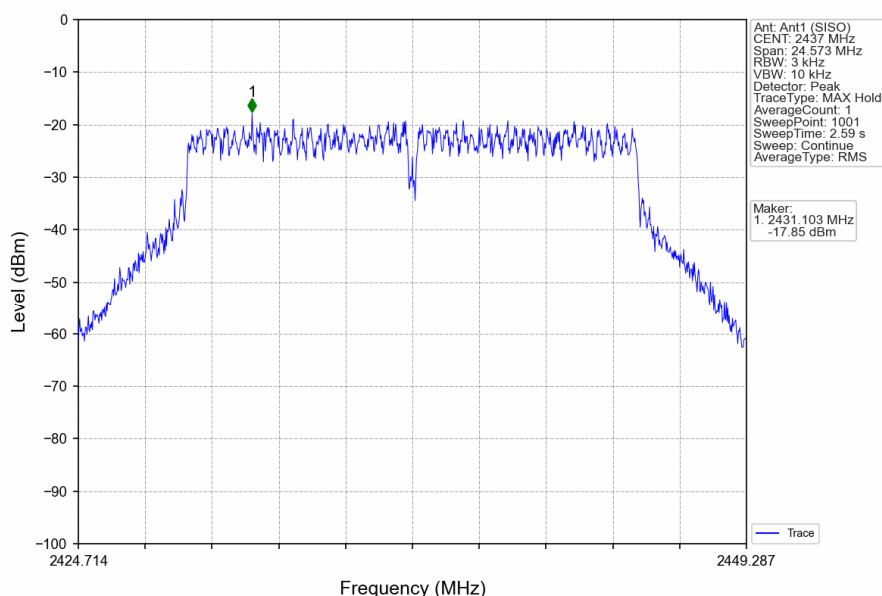
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



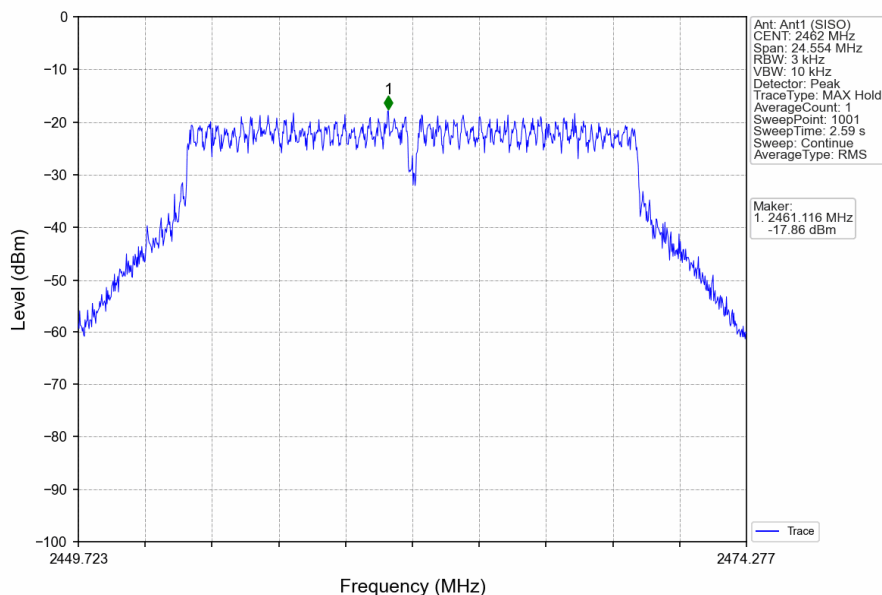
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

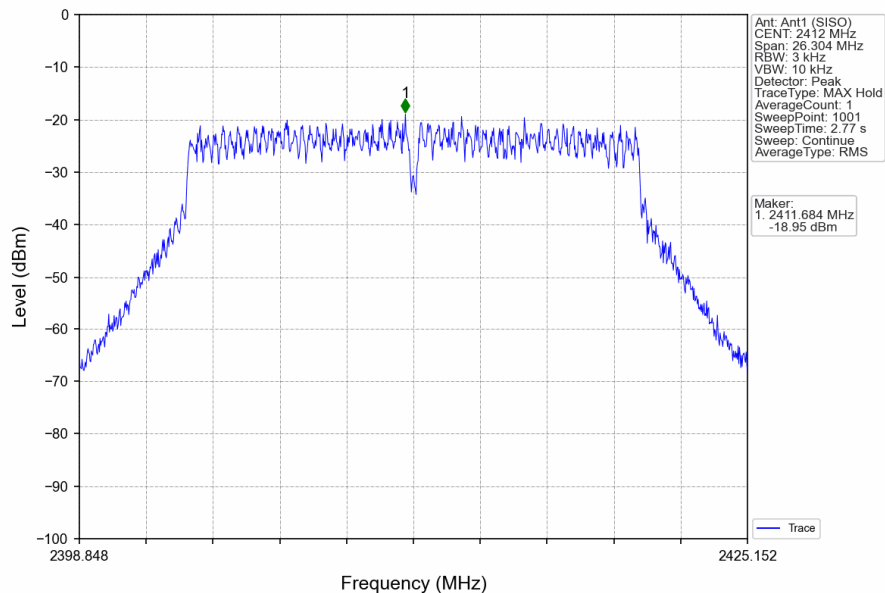


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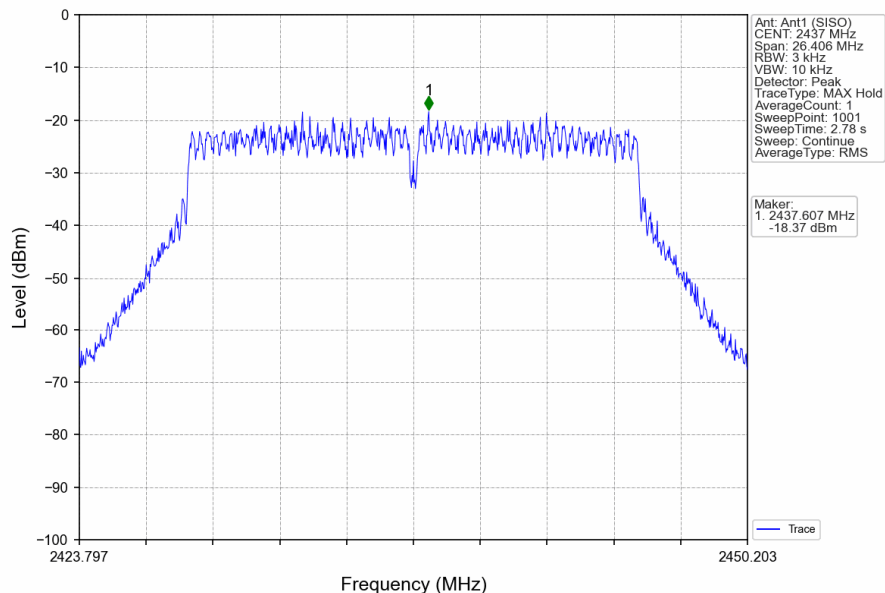
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

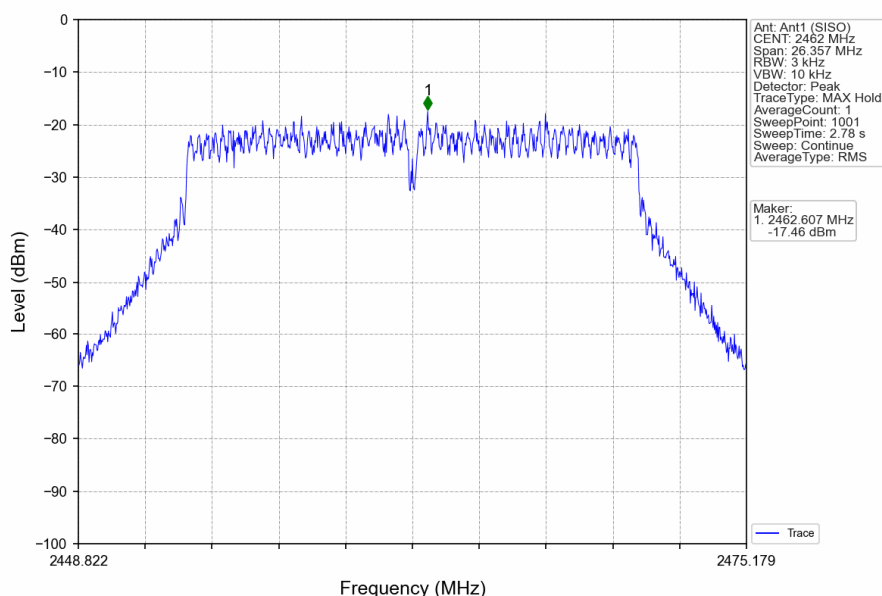
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



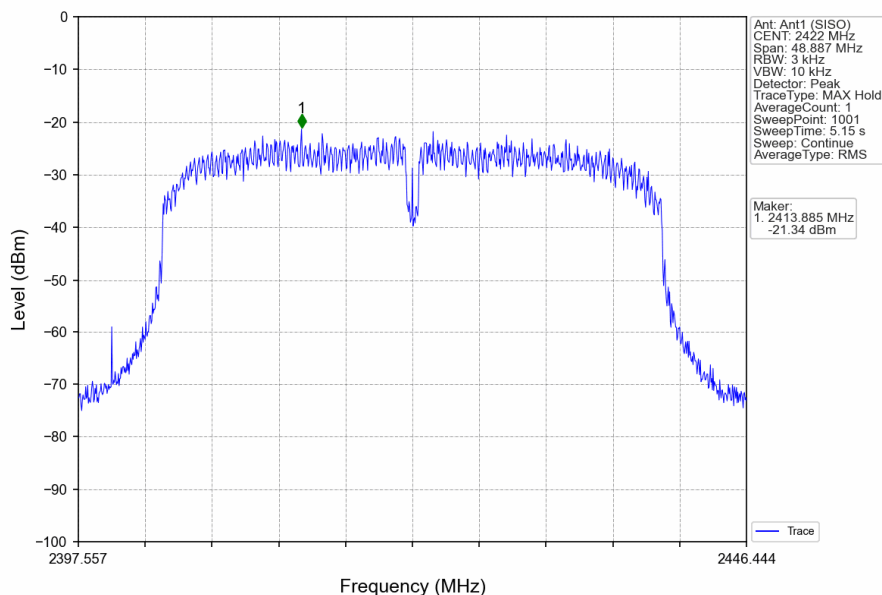
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



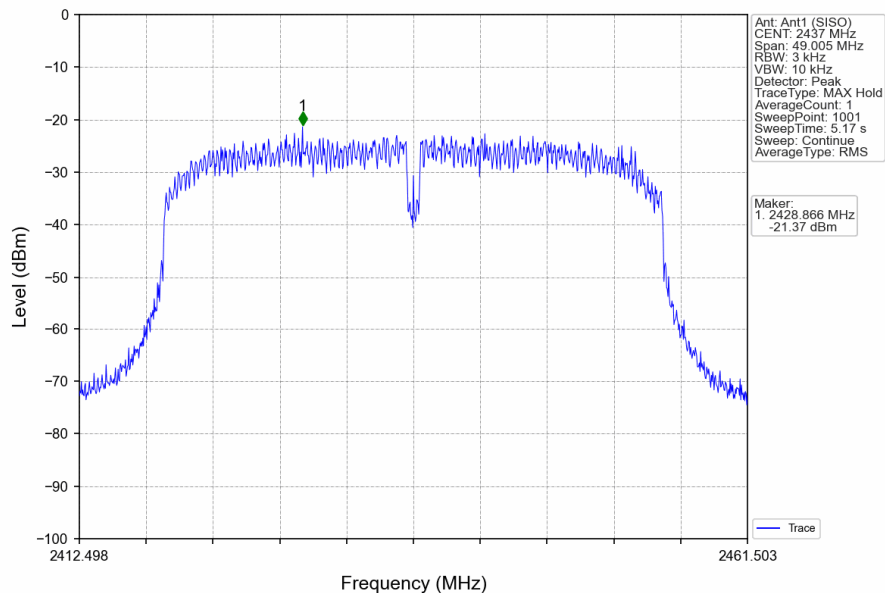
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



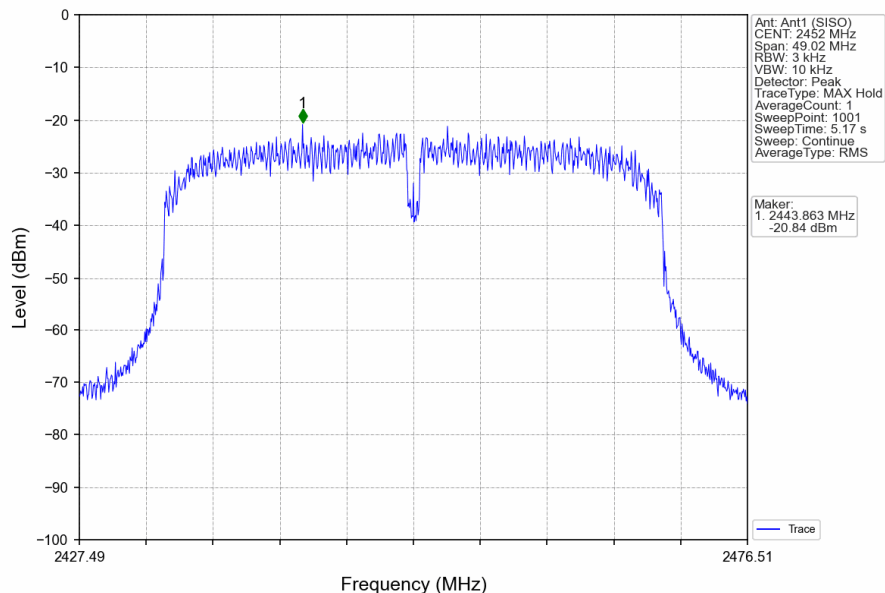
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



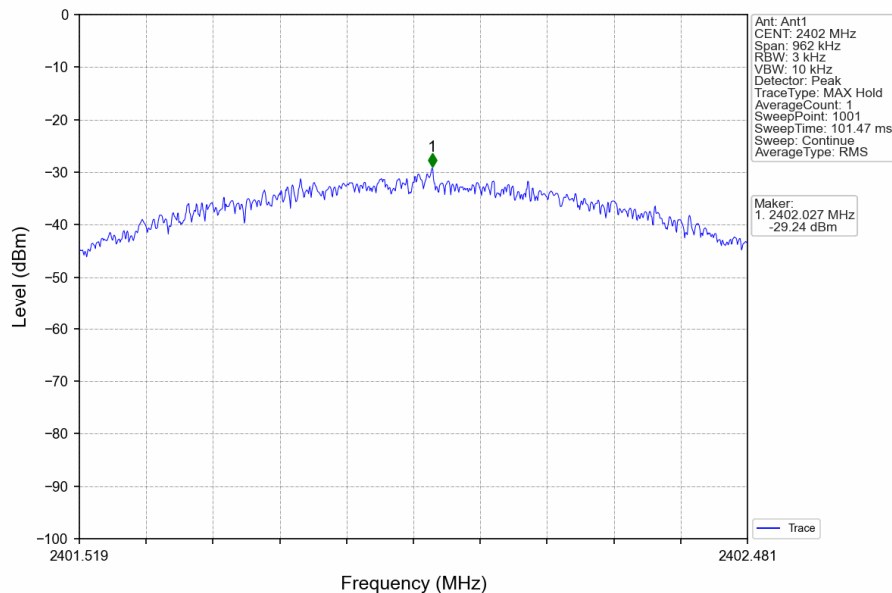
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



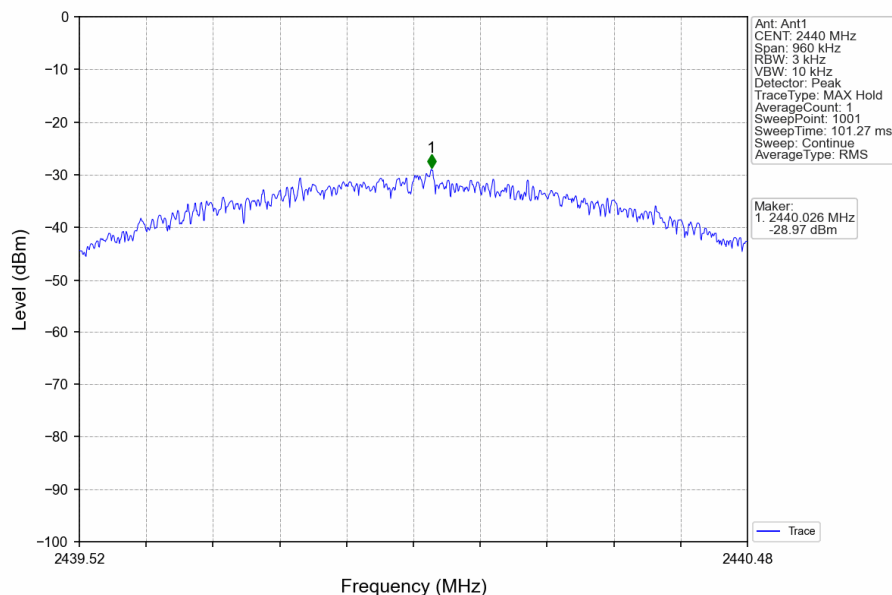
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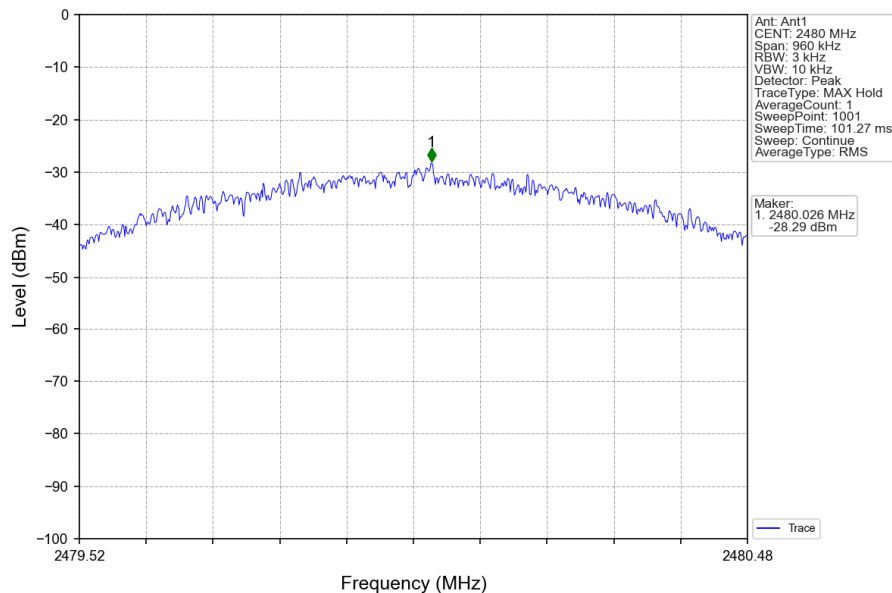
1M_LCH_2402MHz_Ant1_NTNV



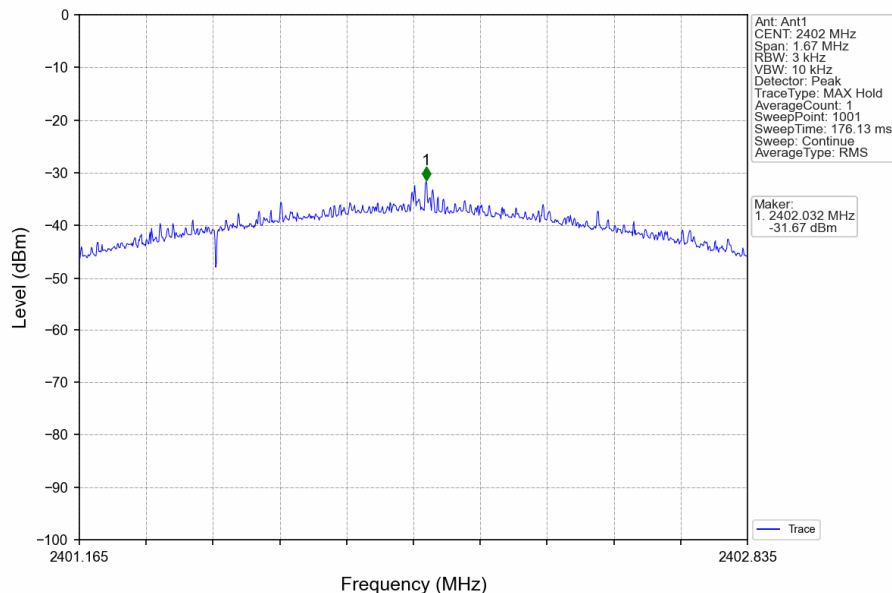
1M_MCH_2440MHz_Ant1_NTNV



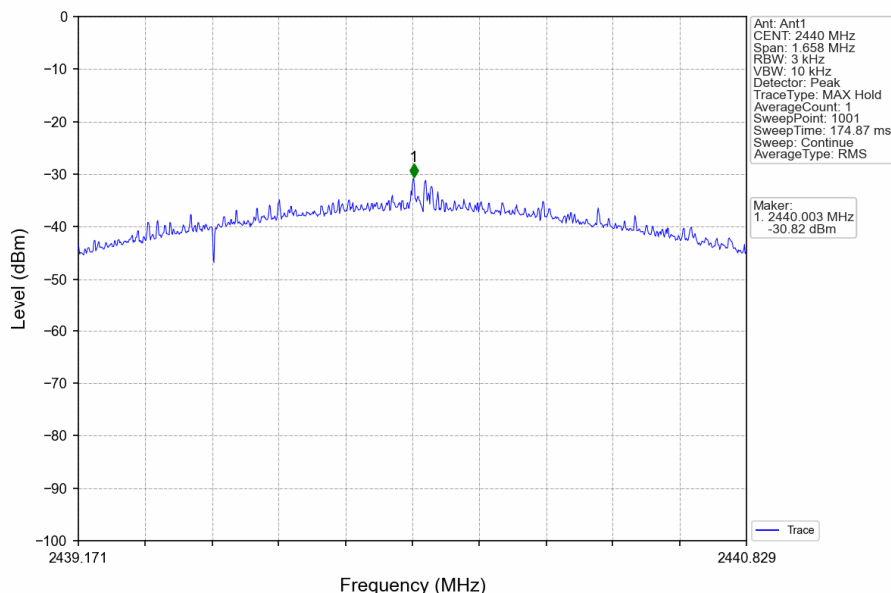
1M_HCH_2480MHz_Ant1_NTNV



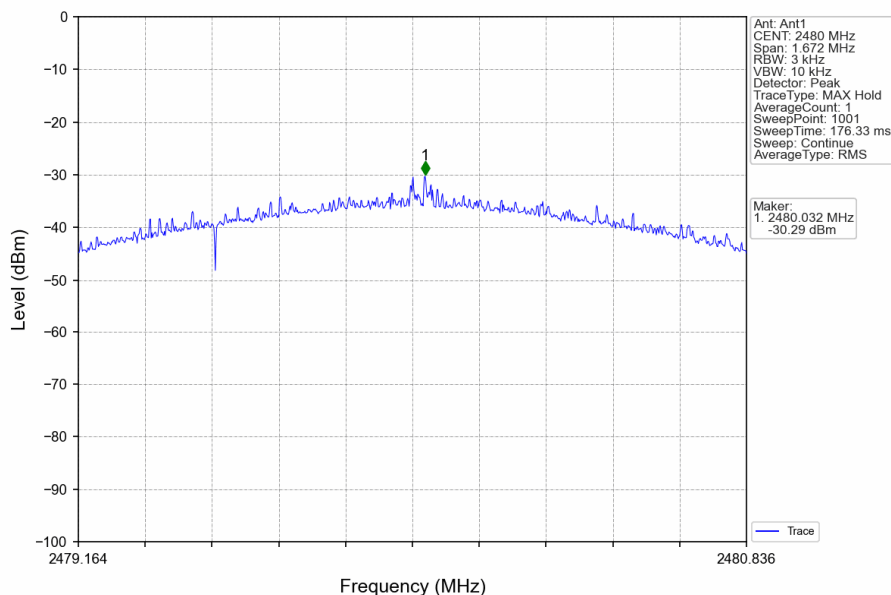
2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

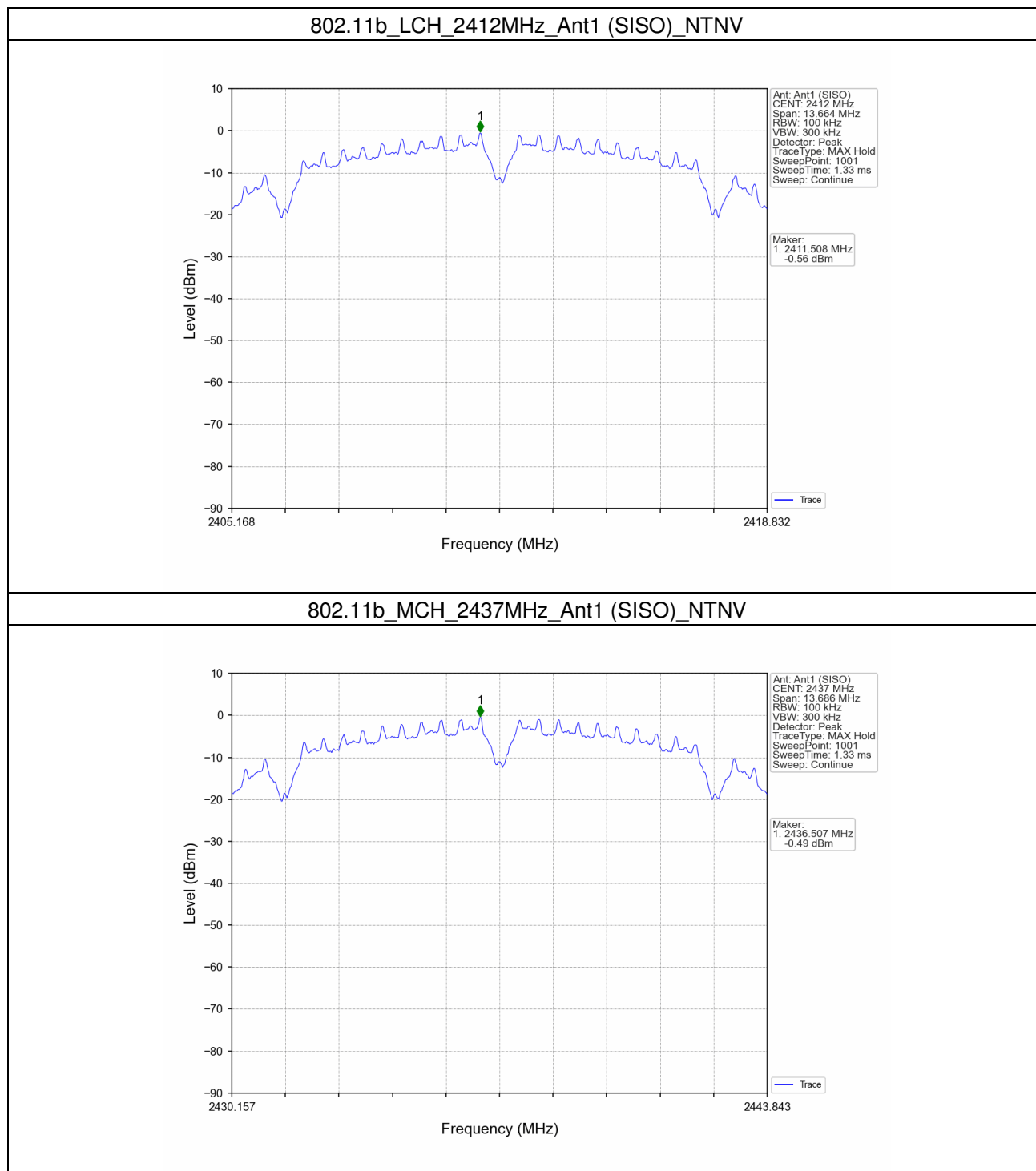
5.1 Ref

5.1.1 Test Result

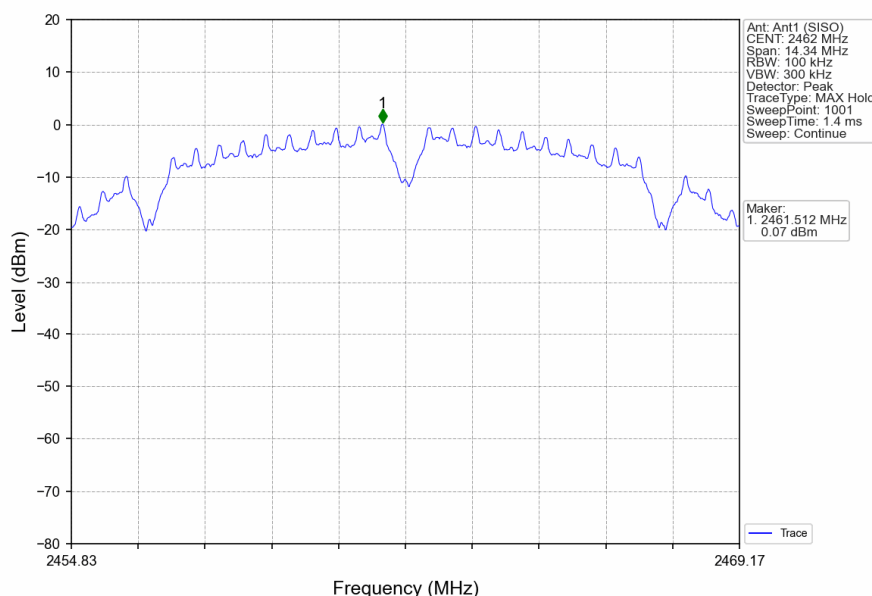
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	-0.56
		2437	1	-0.49
		2462	1	0.07
802.11g	SISO	2412	1	-3.69
		2437	1	-4.25
		2462	1	-3.44
802.11n (HT20)	SISO	2412	1	-4.26
		2437	1	-4.69
		2462	1	-4.00
802.11n (HT40)	SISO	2422	1	-7.93
		2437	1	-7.72
		2452	1	-7.53
1M	SISO	2402	1	-14.44
		2440	1	-13.78
		2480	1	-13.25
2M	SISO	2402	1	-14.53
		2440	1	-13.70
		2480	1	-13.07

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

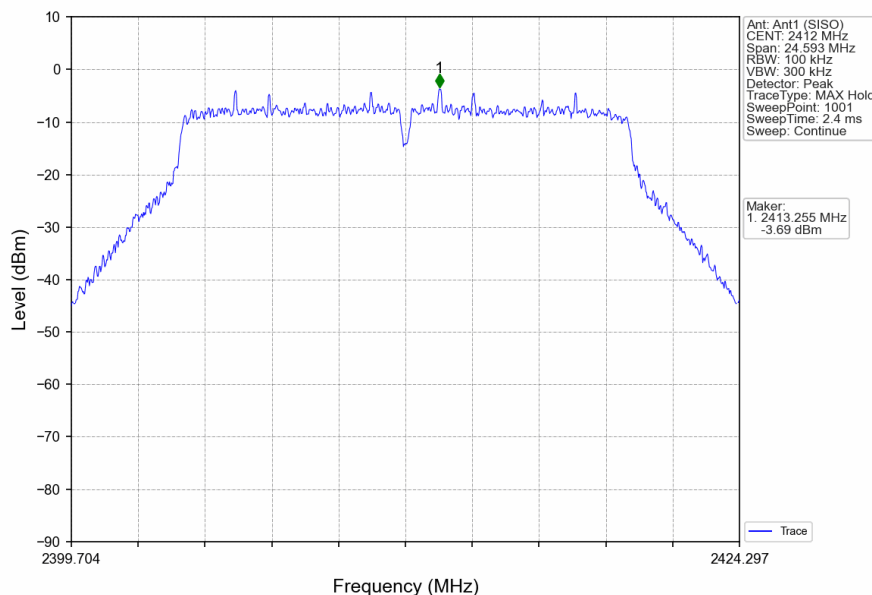
5.1.2 Test Graph



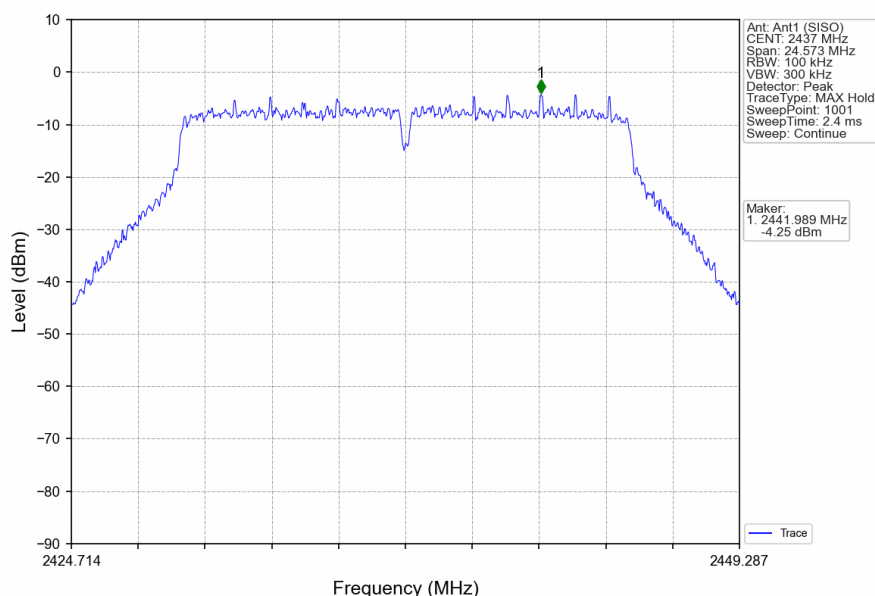
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



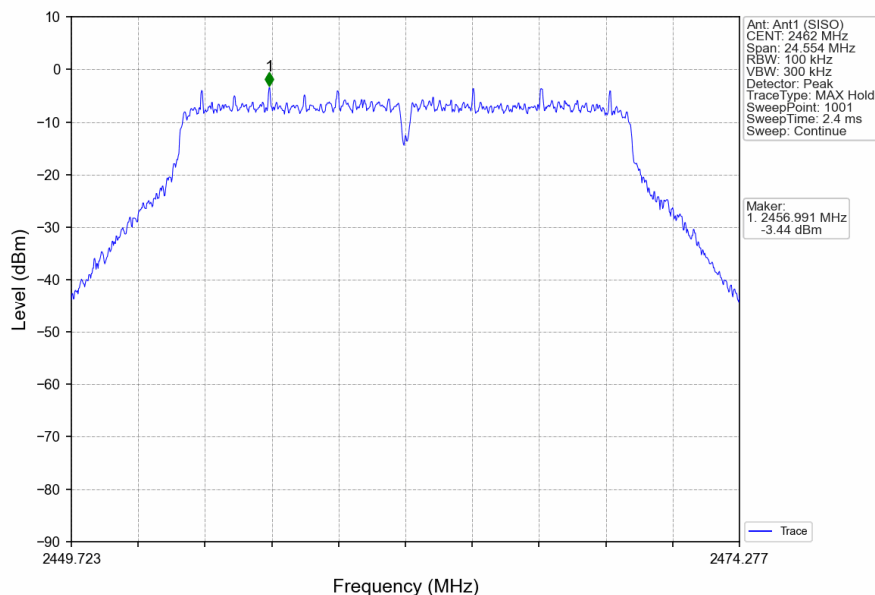
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



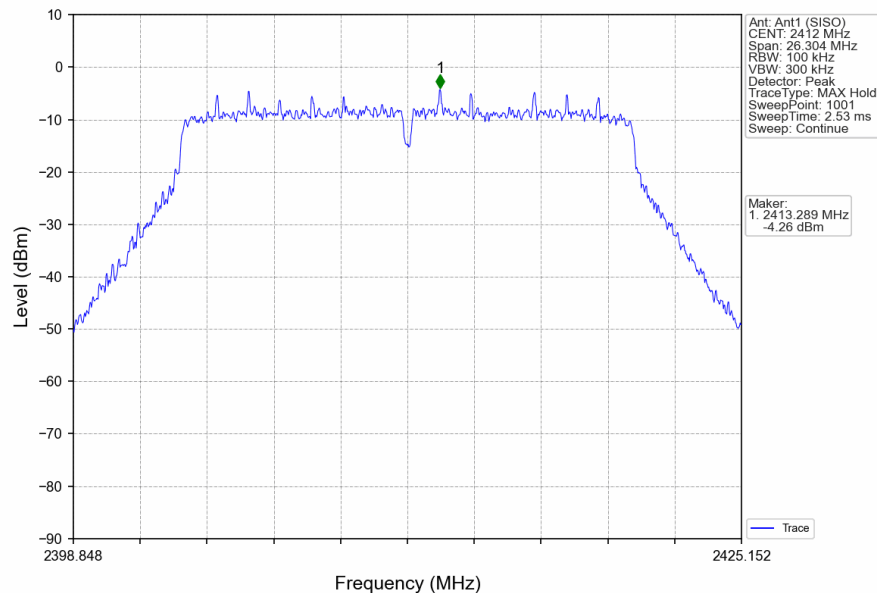
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



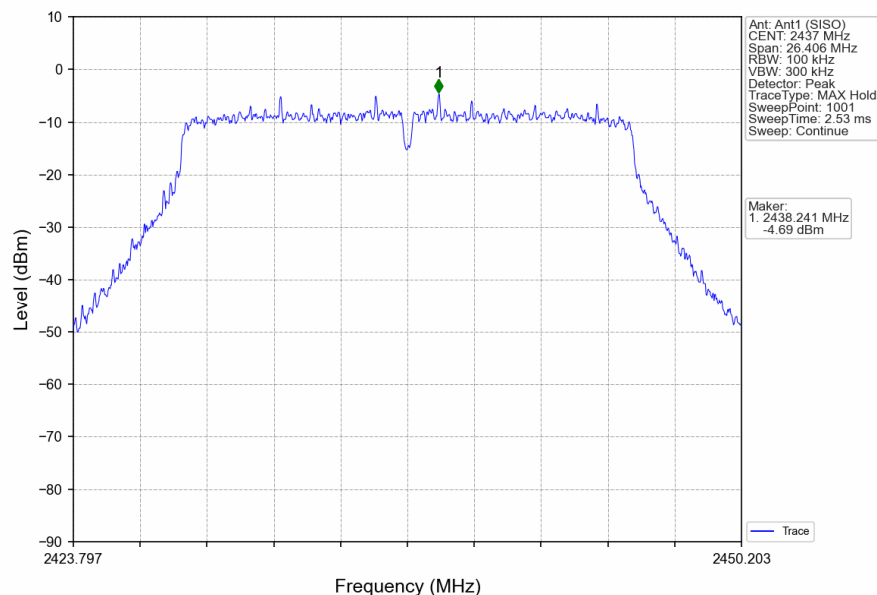
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



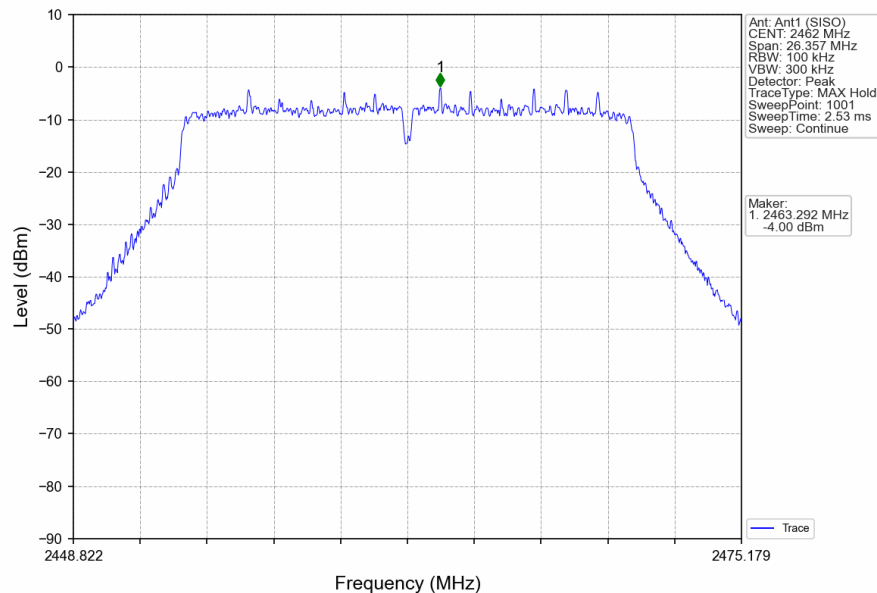
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



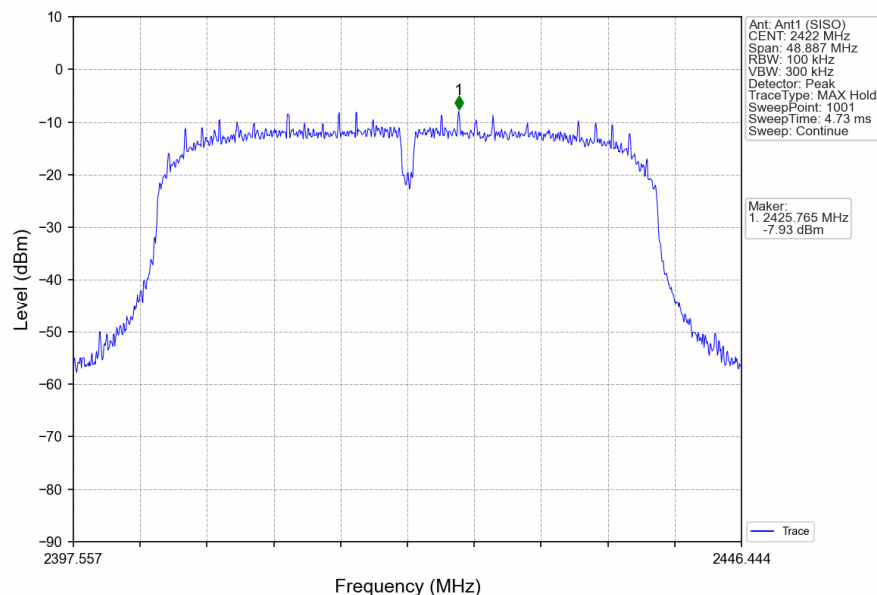
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



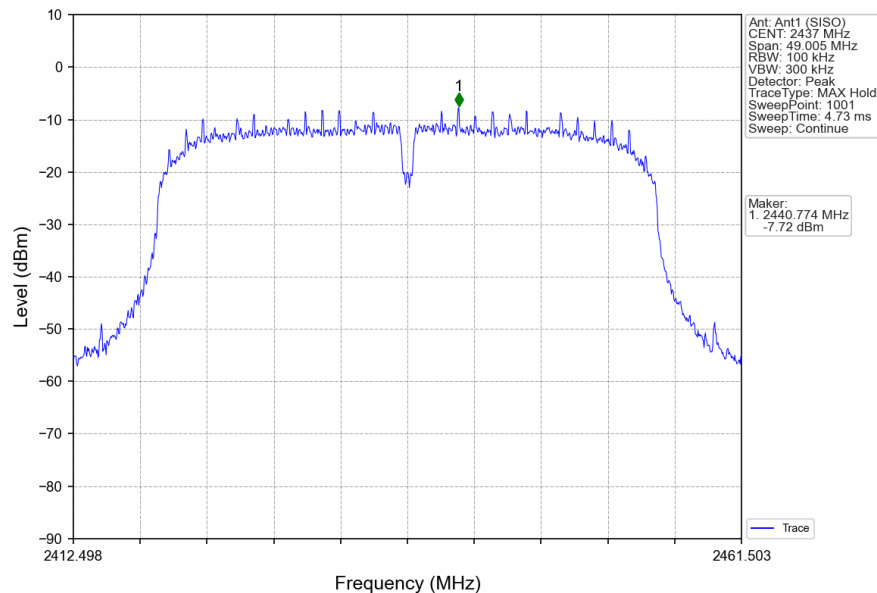
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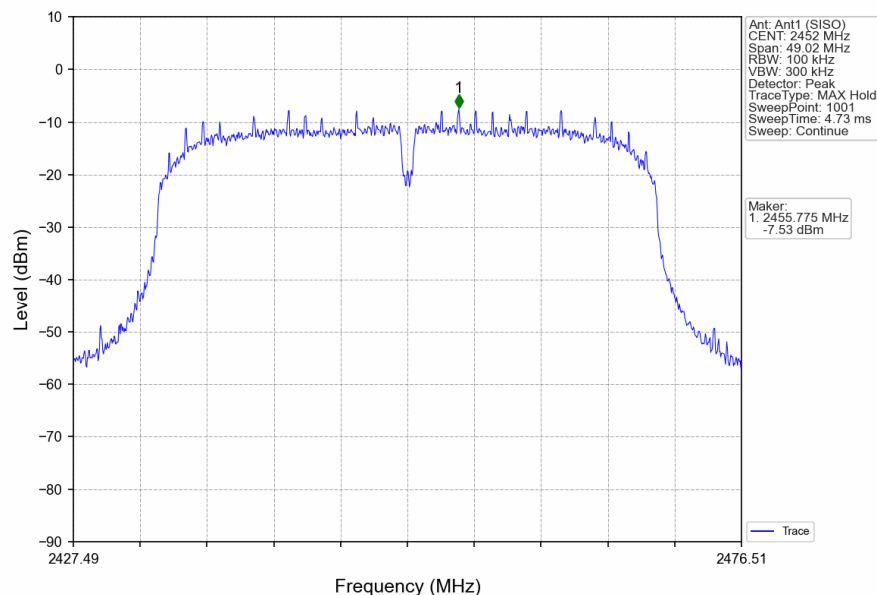
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



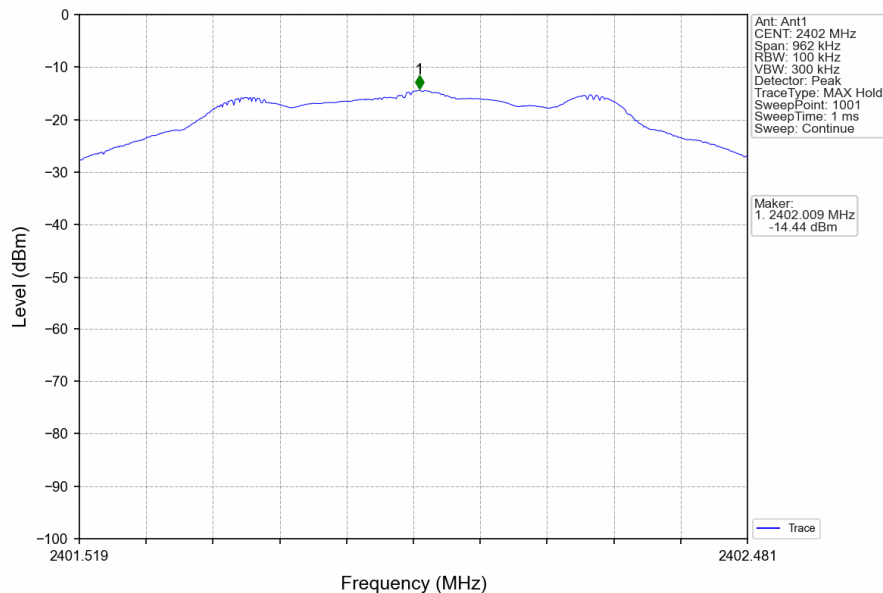
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



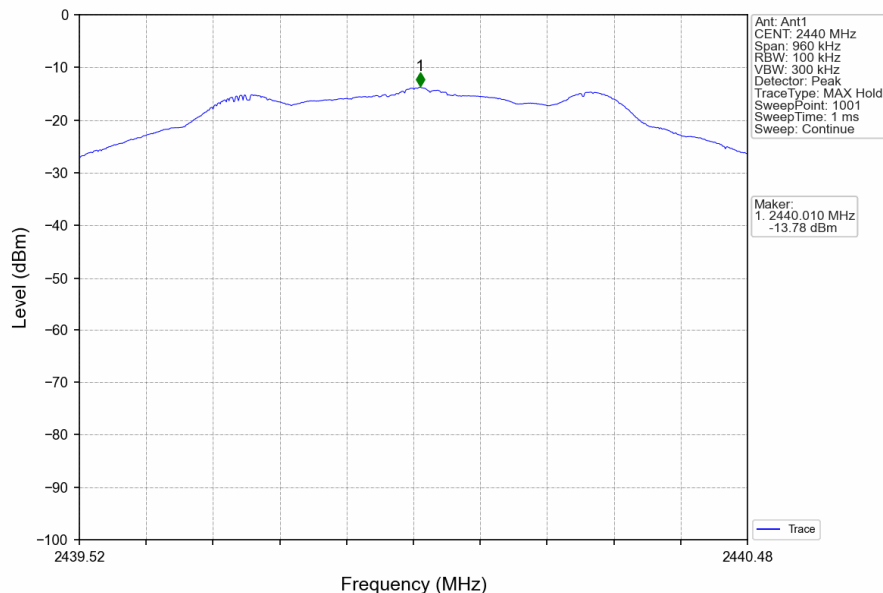
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



1M_LCH_2402MHz_Ant1_NTNV

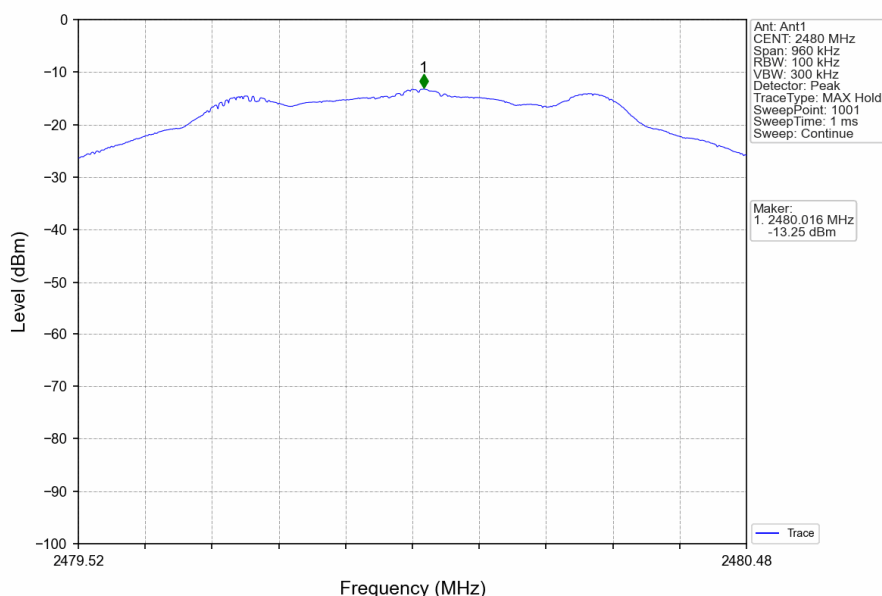


1M_MCH_2440MHz_Ant1_NTNV

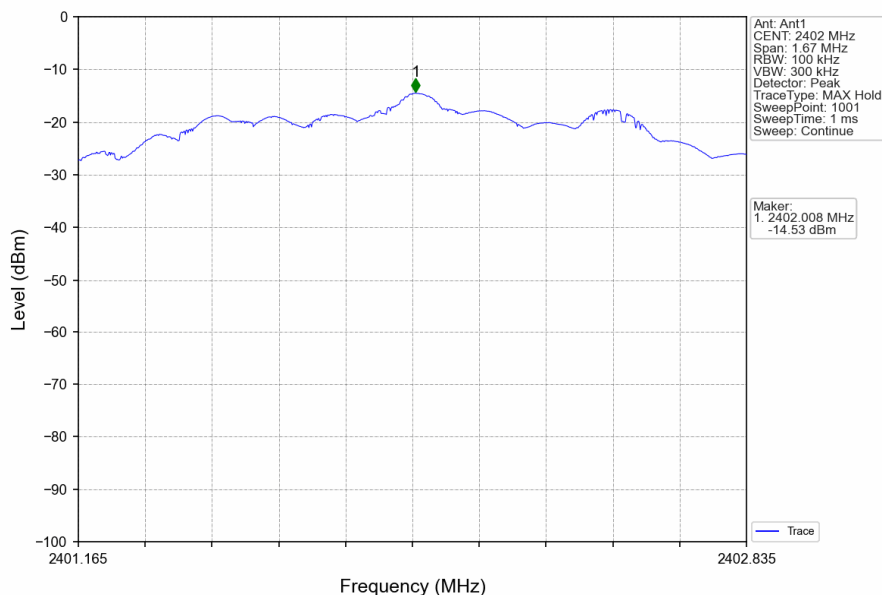


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1M_HCH_2480MHz_Ant1_NTNV

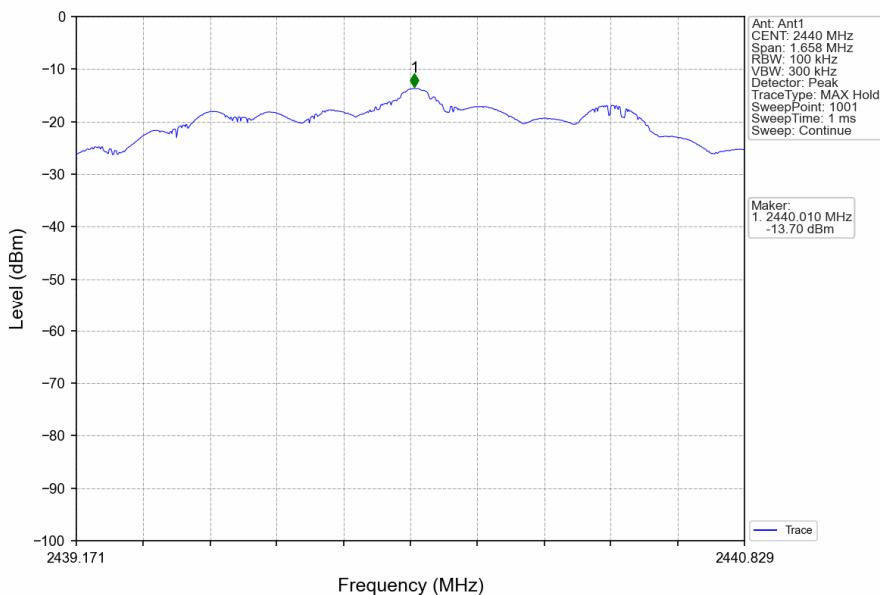


2M_LCH_2402MHz_Ant1_NTNV

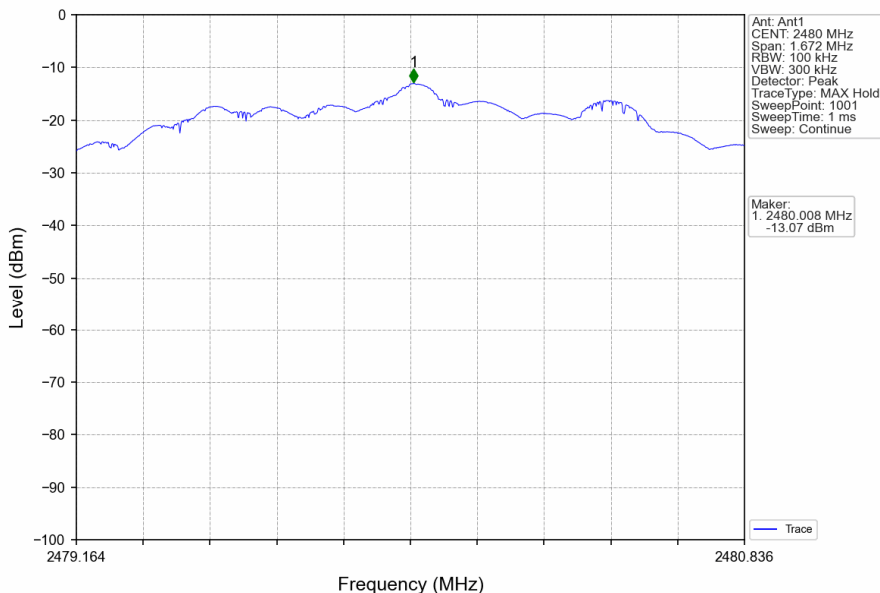


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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



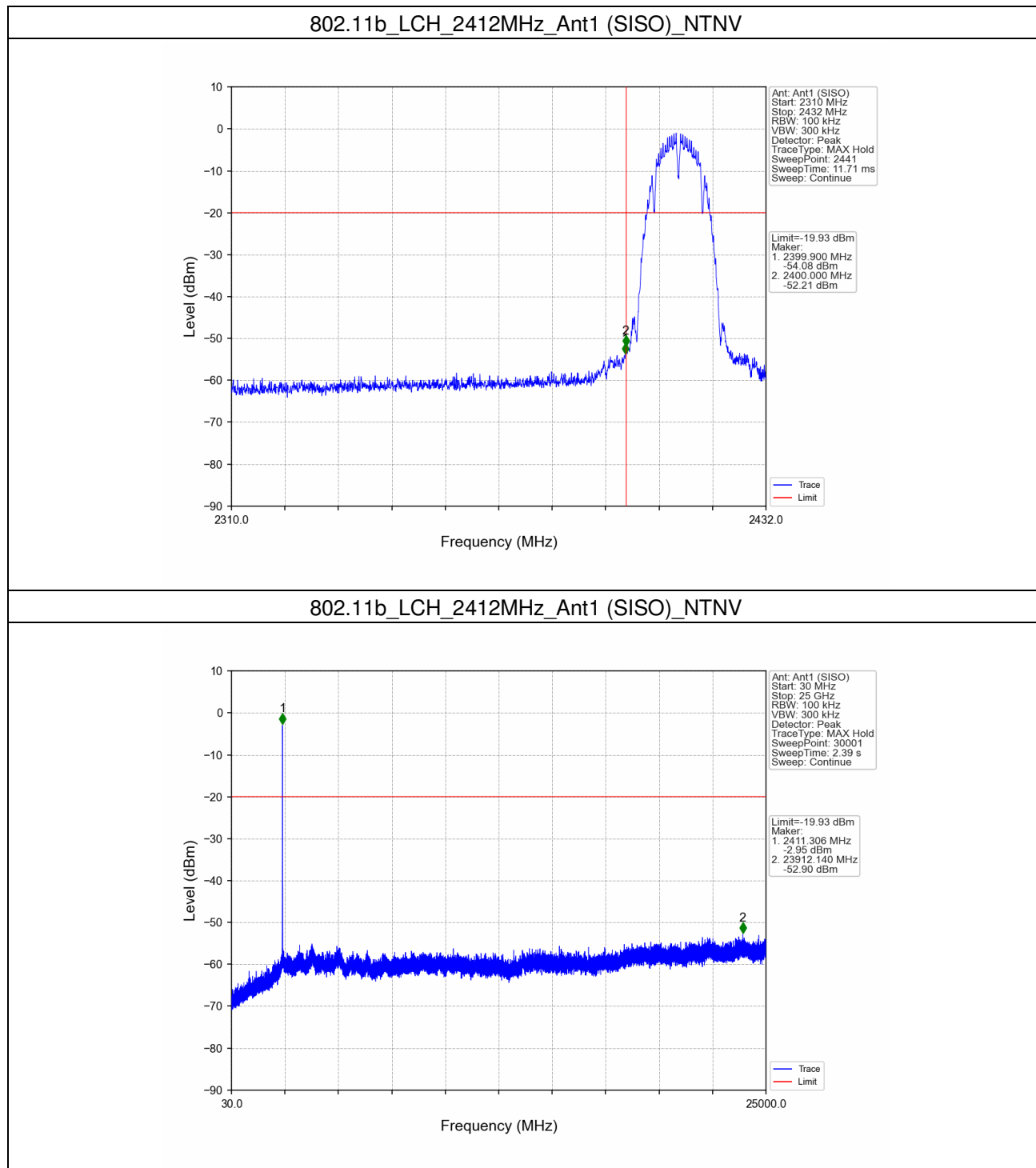
5.2 CSE and Band Edges

5.2.1 Test Result

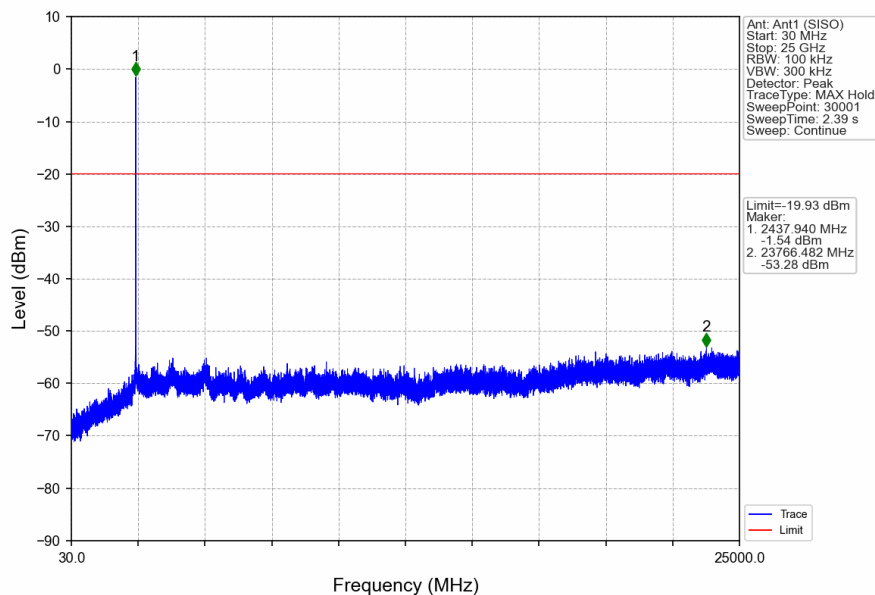
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	0.07	-19.93	Pass
		2437	1	0.07	-19.93	Pass
		2462	1	0.07	-19.93	Pass
802.11g	SISO	2412	1	-3.44	-23.44	Pass
		2437	1	-3.44	-23.44	Pass
		2462	1	-3.44	-23.44	Pass
802.11n (HT20)	SISO	2412	1	-4.00	-24.00	Pass
		2437	1	-4.00	-24.00	Pass
		2462	1	-4.00	-24.00	Pass
802.11n (HT40)	SISO	2422	1	-7.53	-27.53	Pass
		2437	1	-7.53	-27.53	Pass
		2452	1	-7.53	-27.53	Pass
1M	SISO	2402	1	-13.25	-33.25	Pass
		2440	1	-13.25	-33.25	Pass
		2480	1	-13.25	-33.25	Pass
2M	SISO	2402	1	-13.07	-33.07	Pass
		2440	1	-13.07	-33.07	Pass
		2480	1	-13.07	-33.07	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

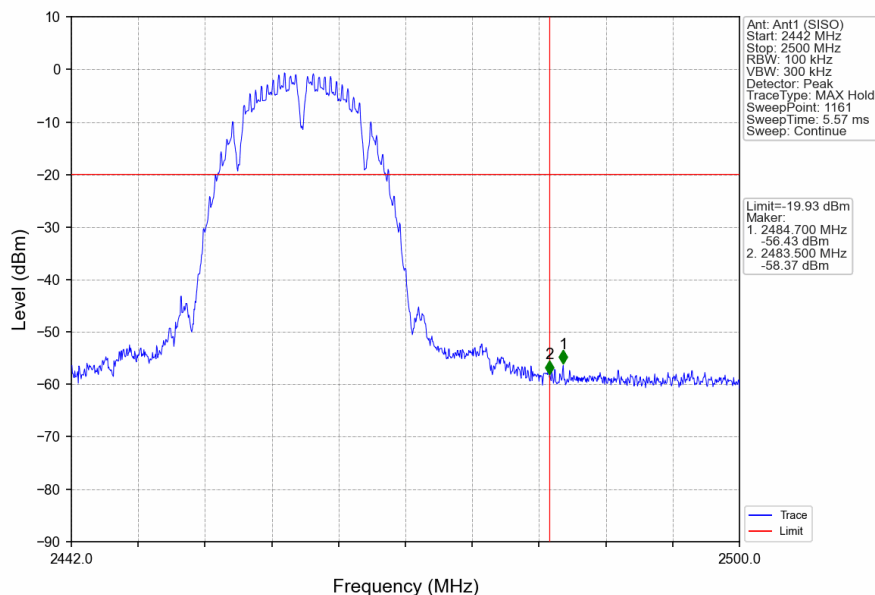
5.2.2 Test Graph



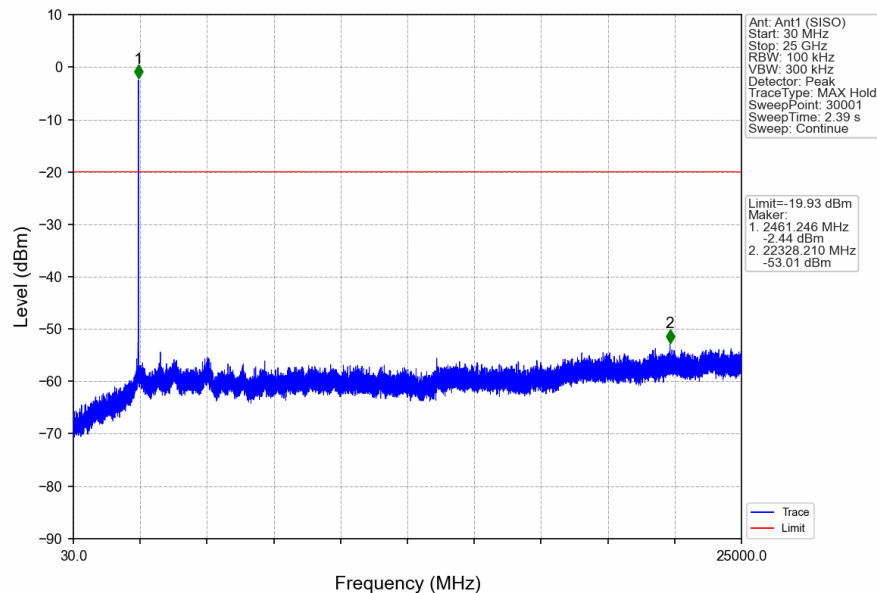
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



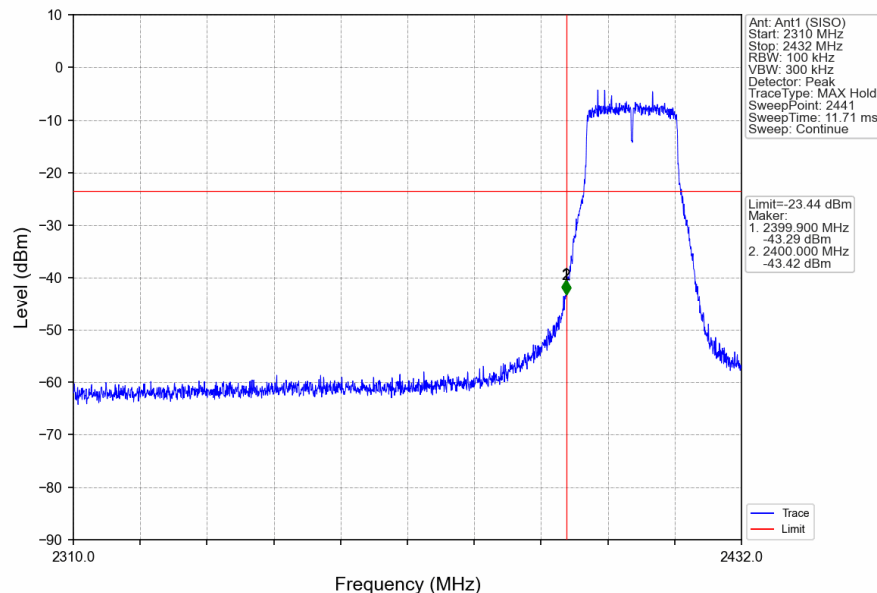
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



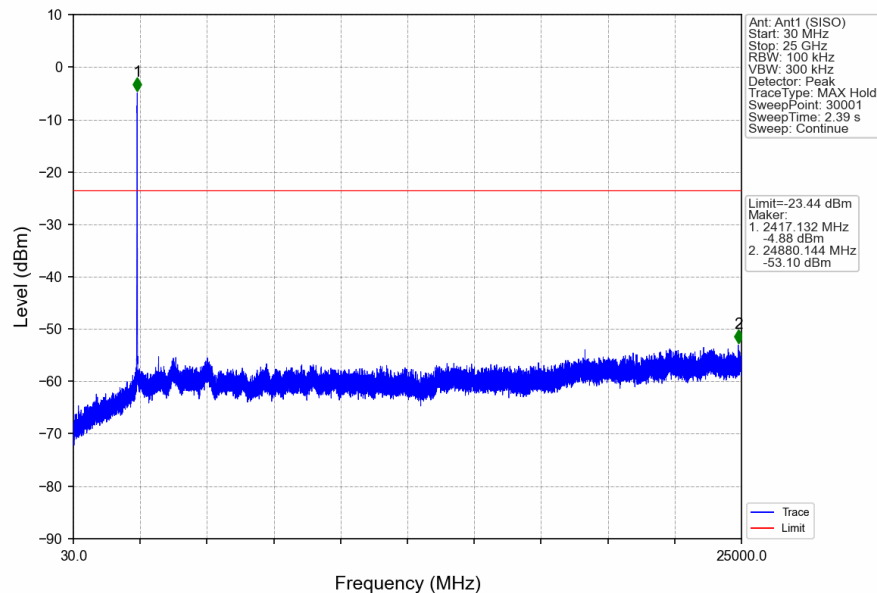
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



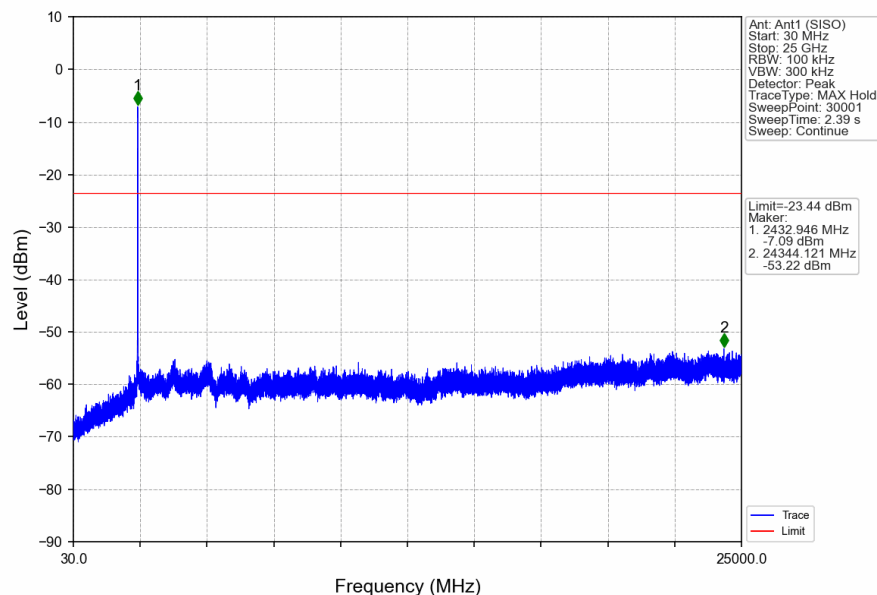
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



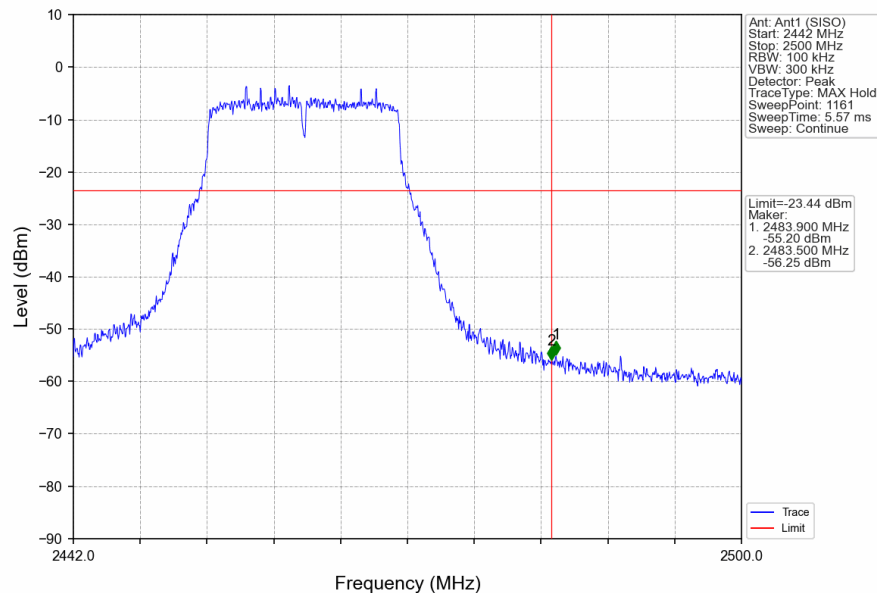
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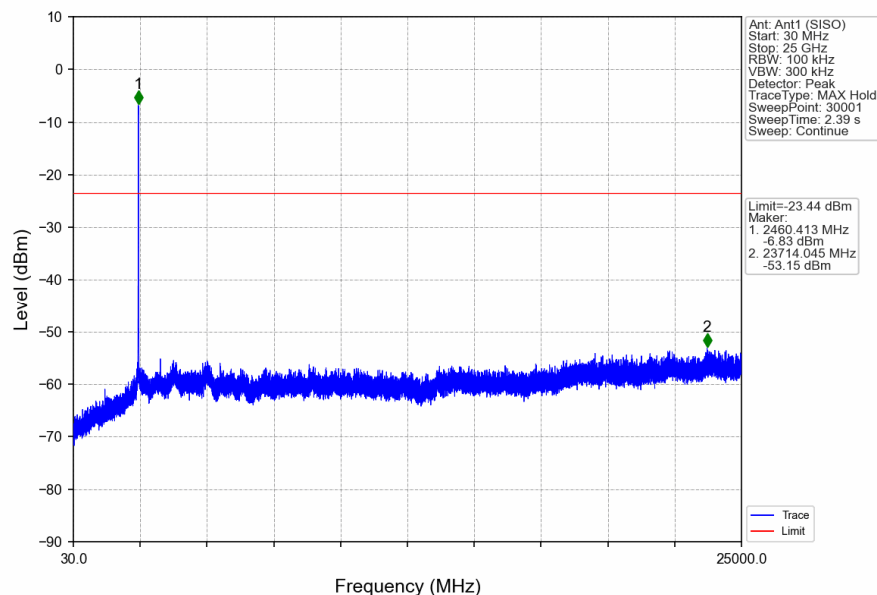
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



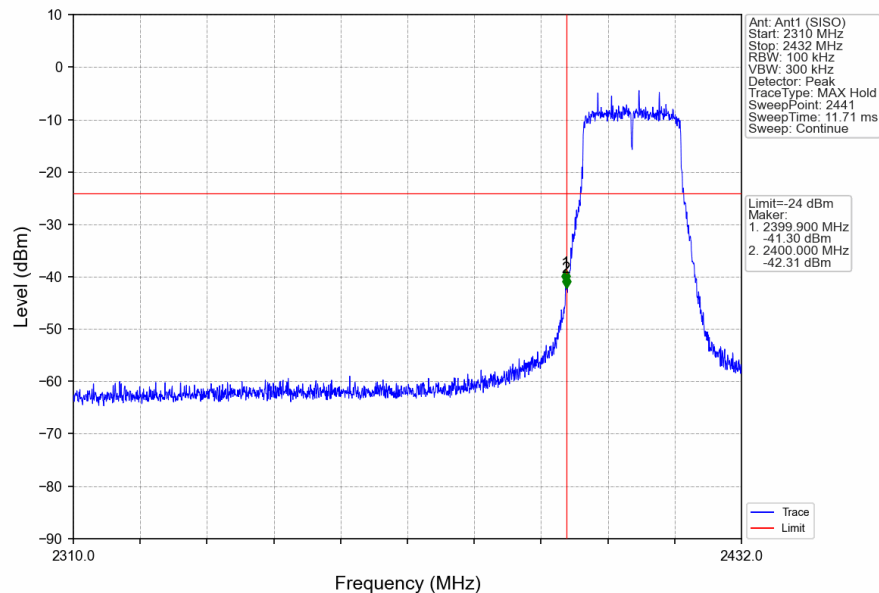
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



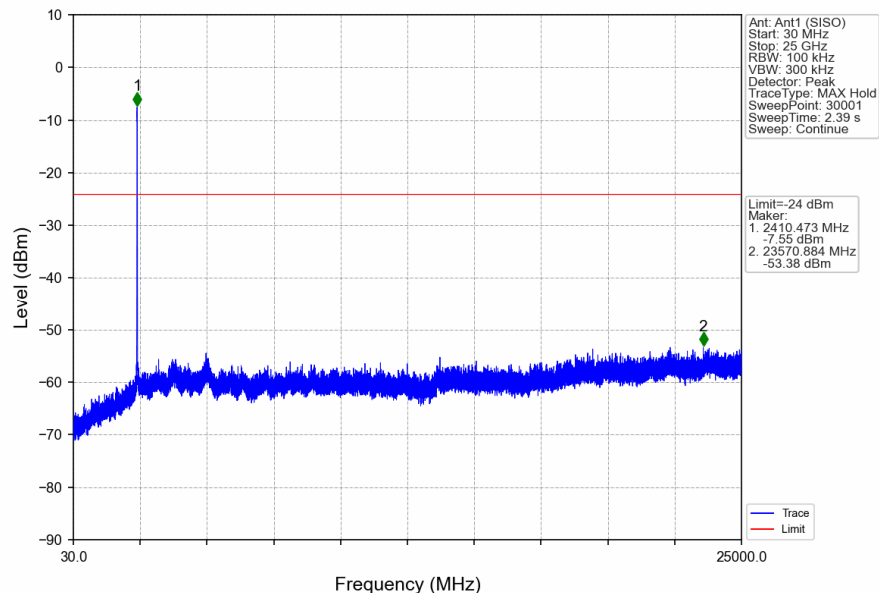
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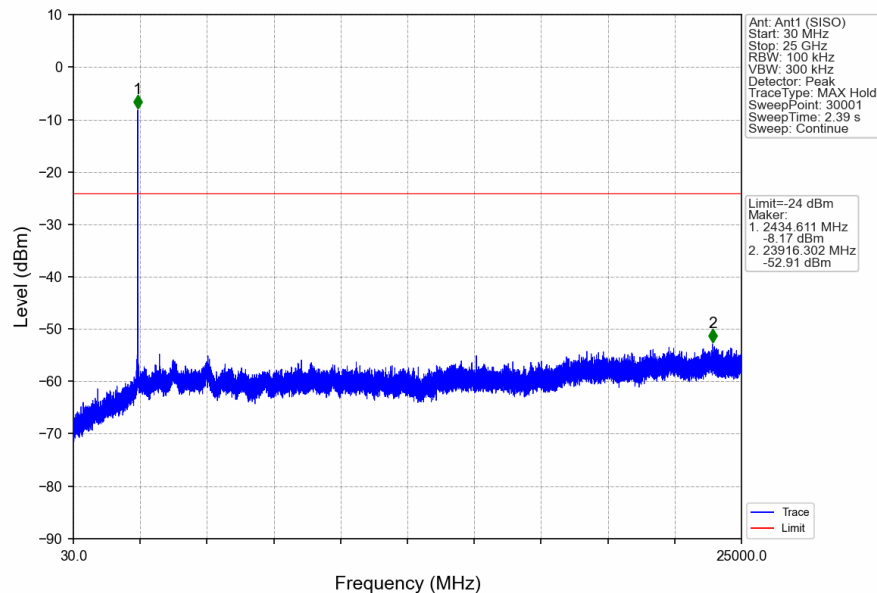
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



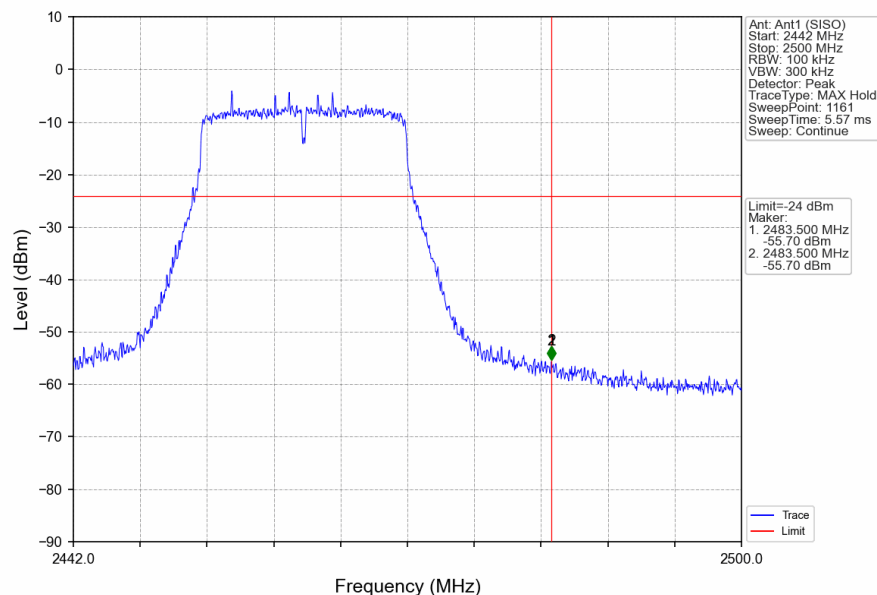
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



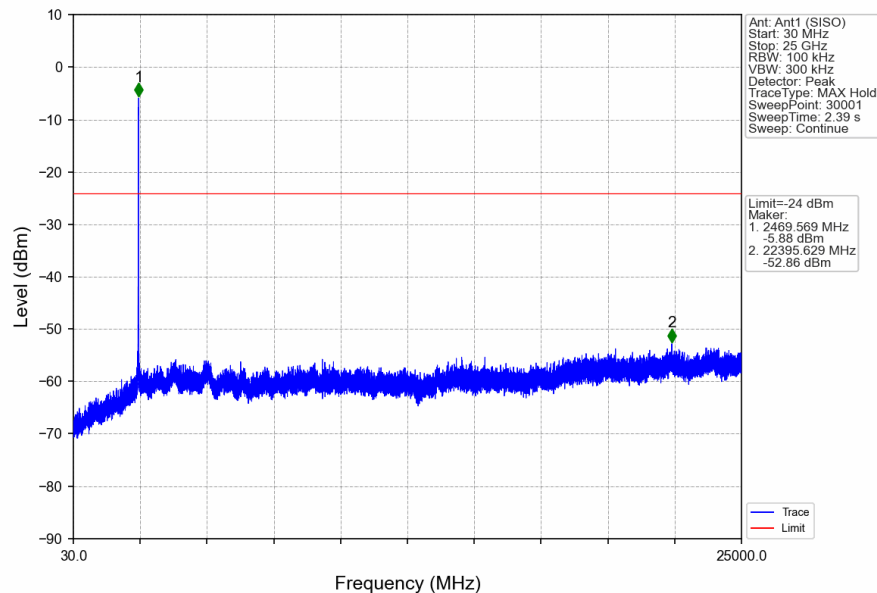
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



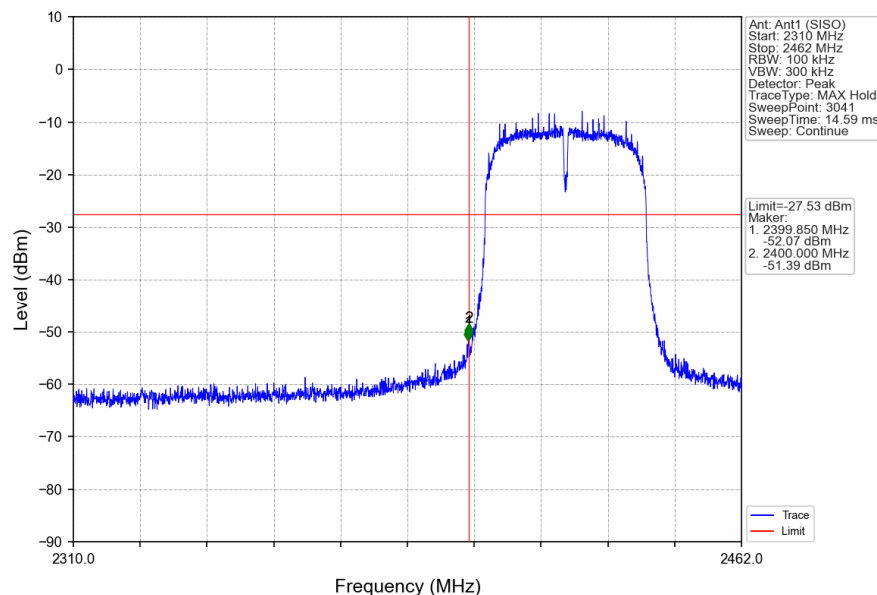
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



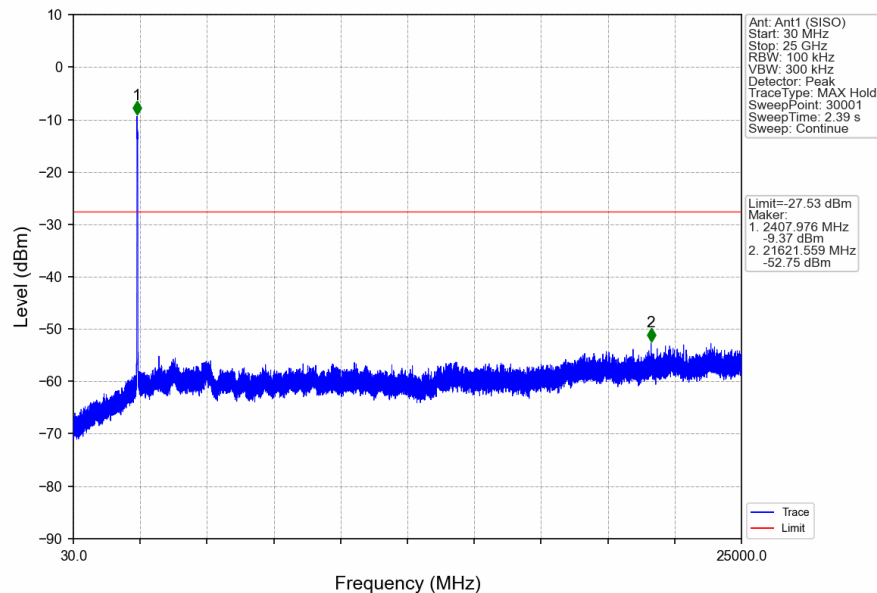
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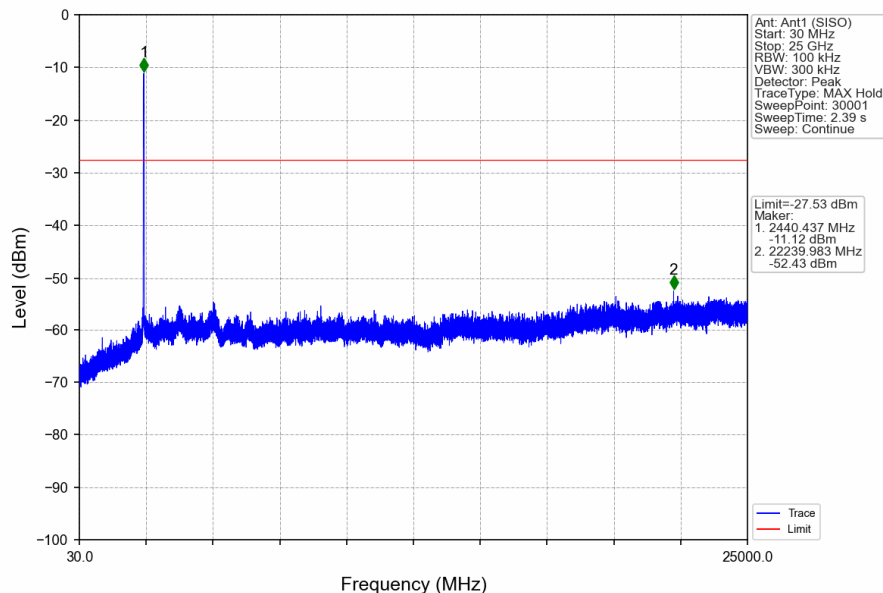
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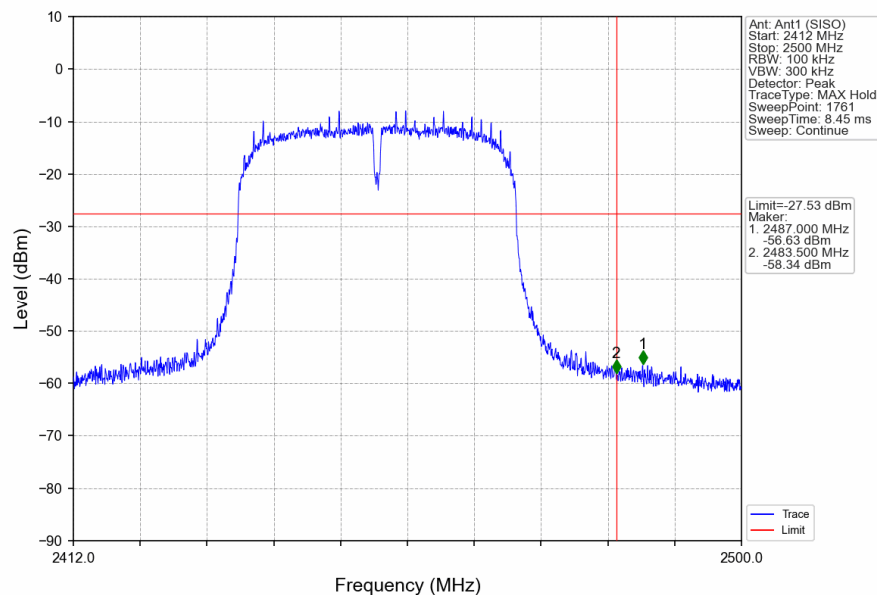
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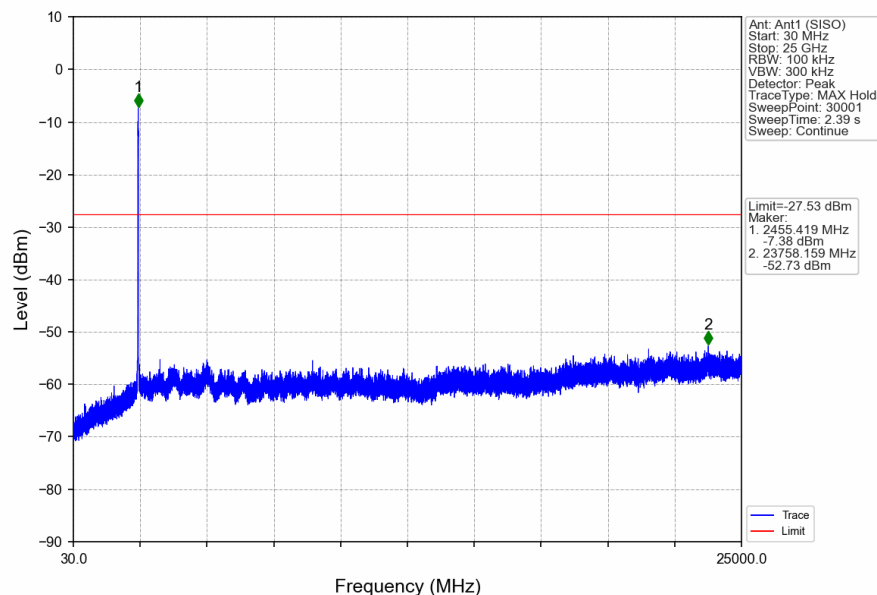
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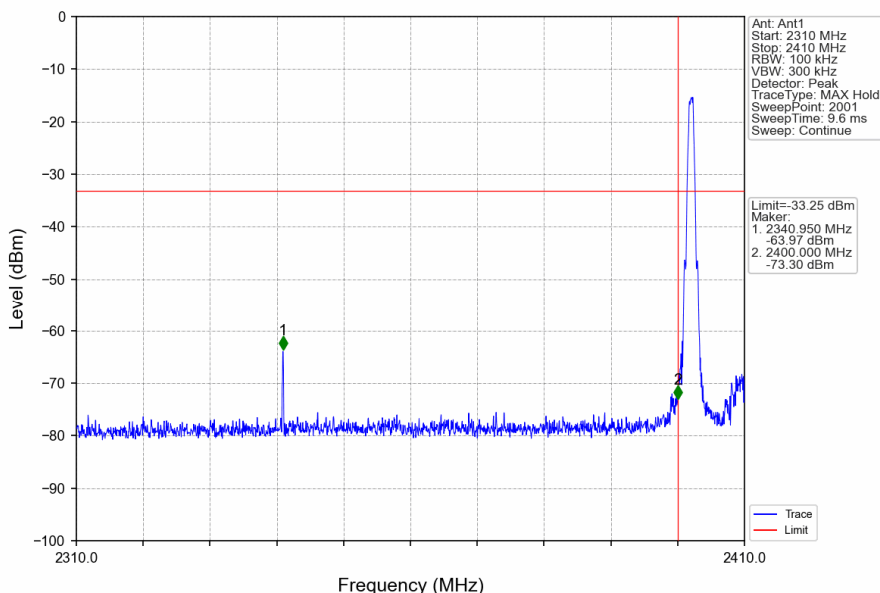
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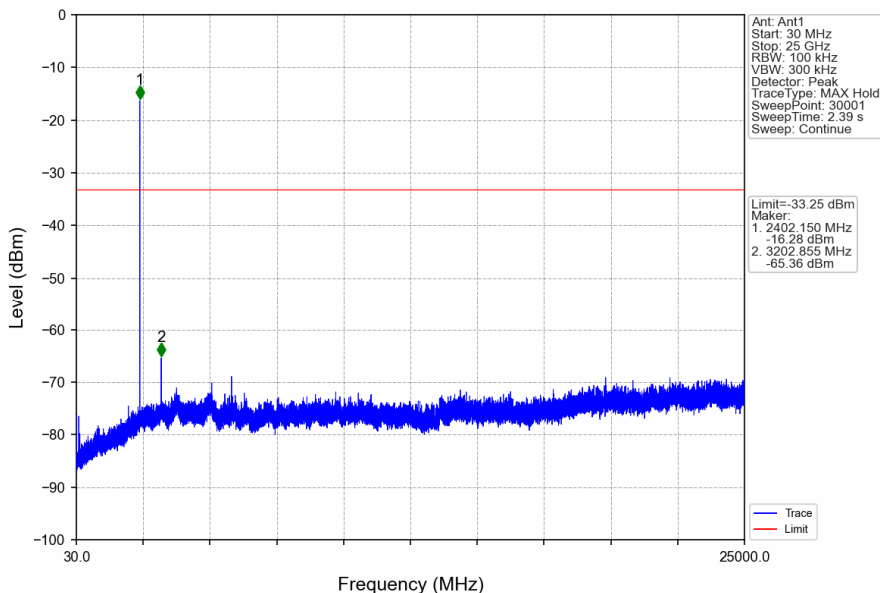
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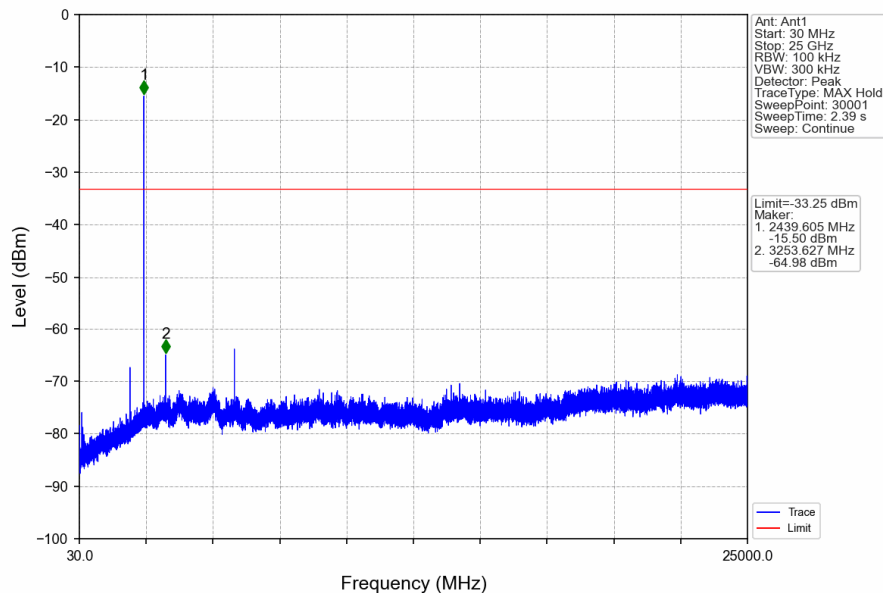
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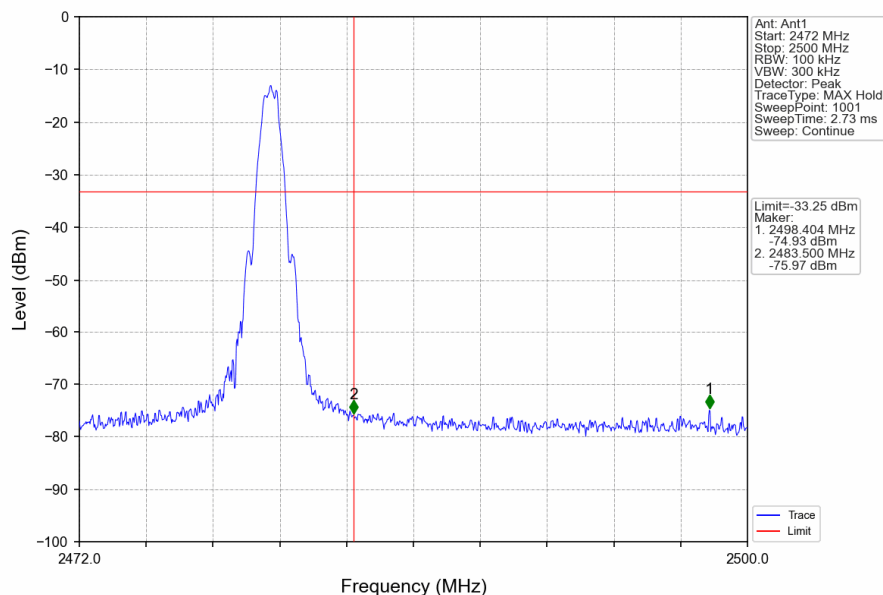
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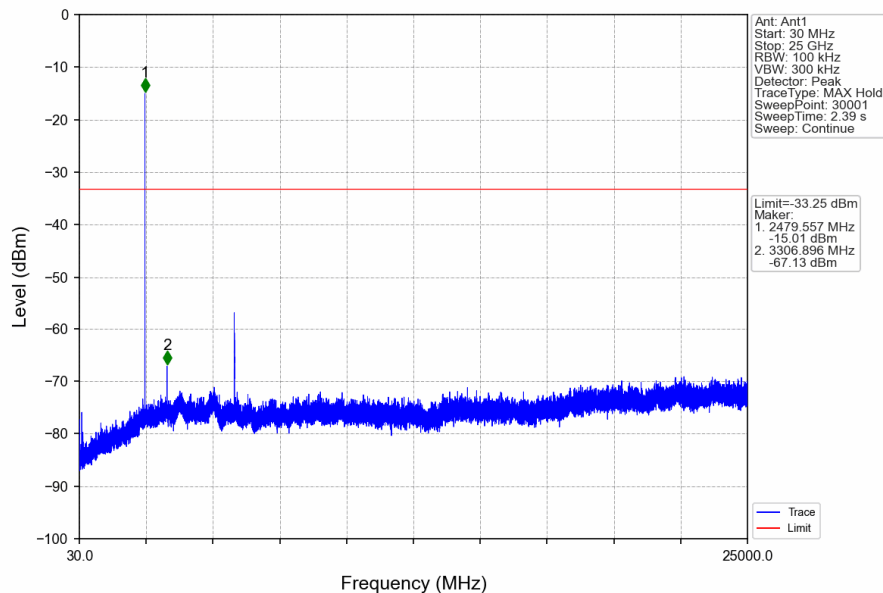
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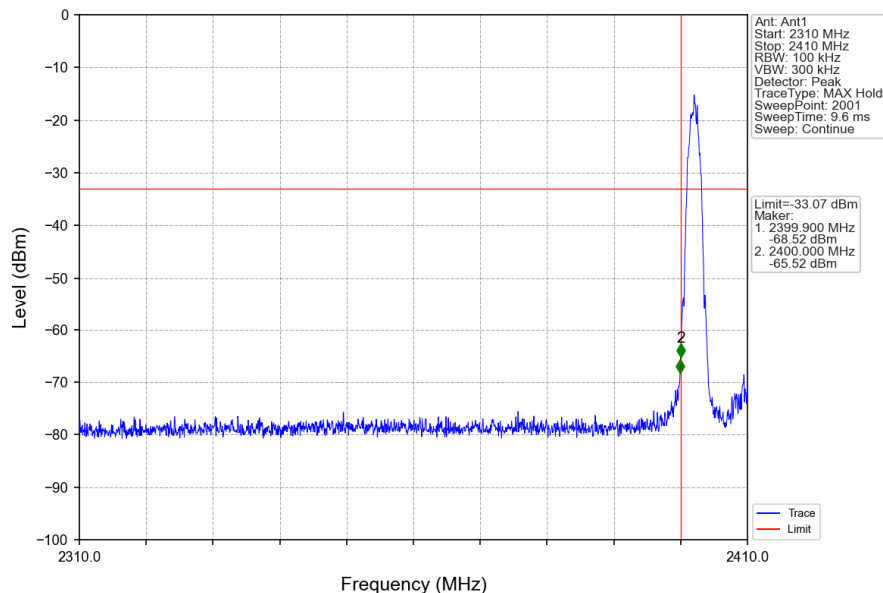
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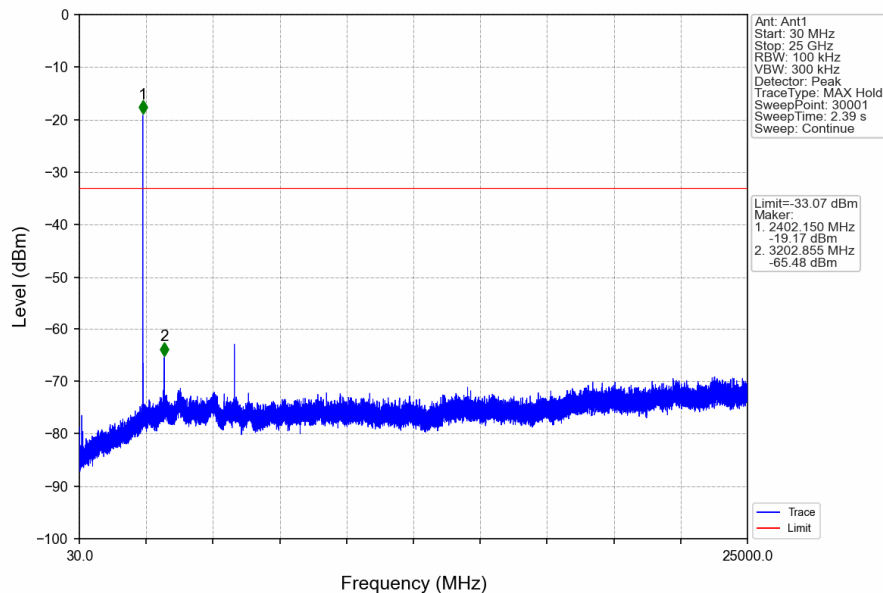
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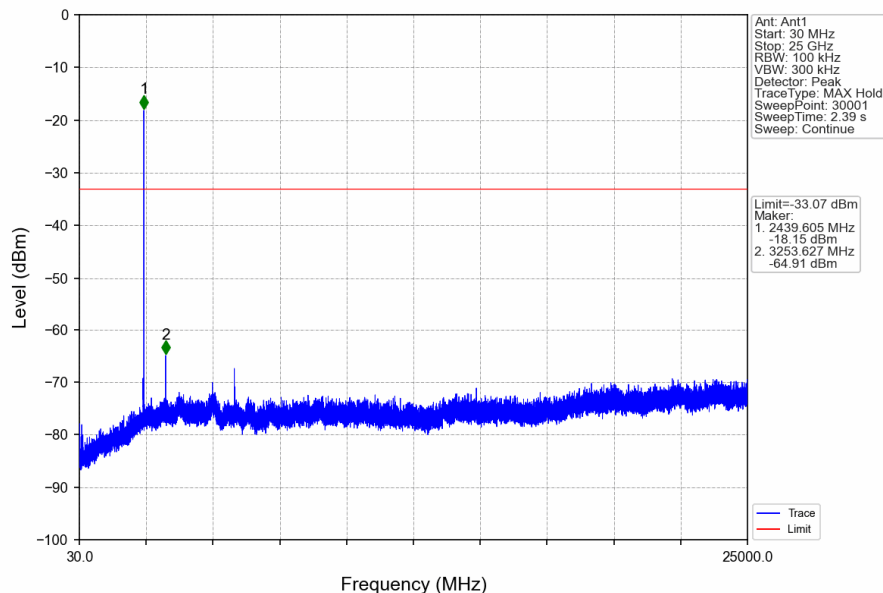
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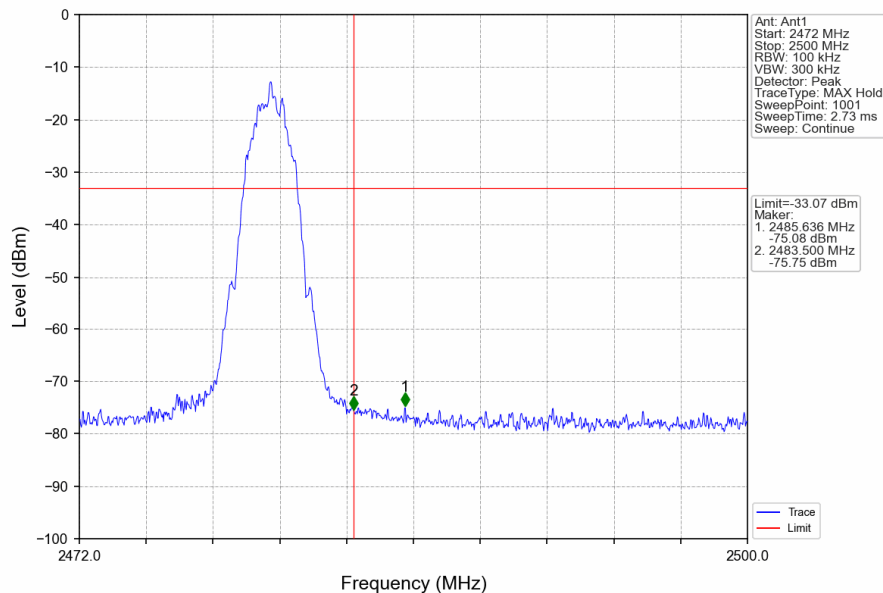
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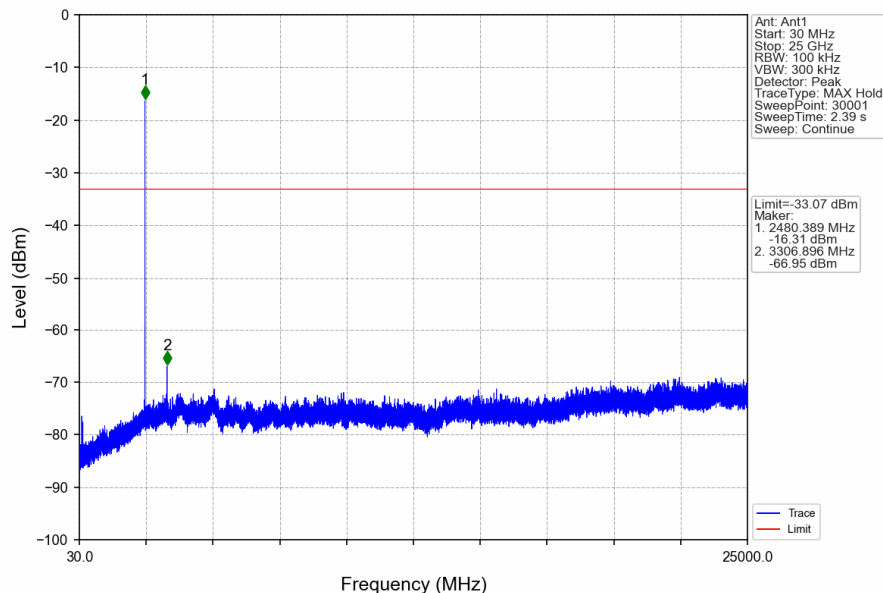
2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



- End of the Report -



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