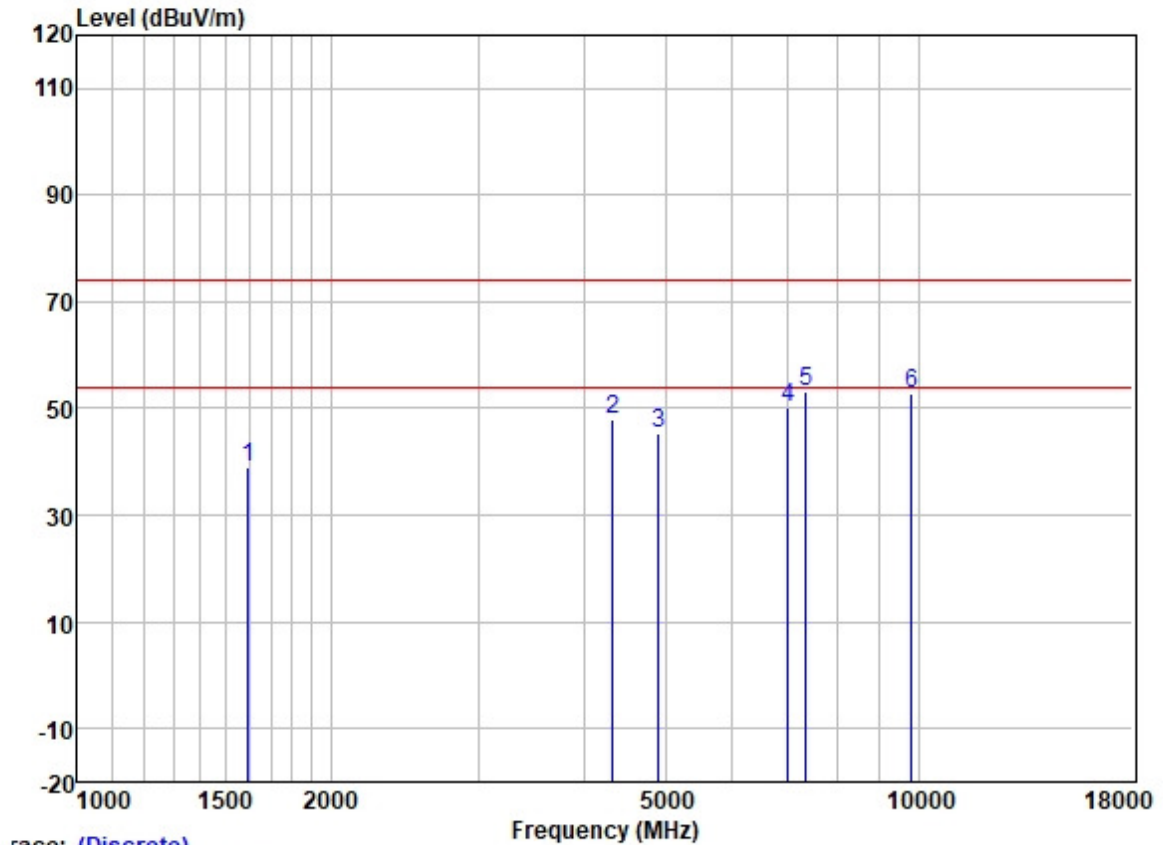


Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



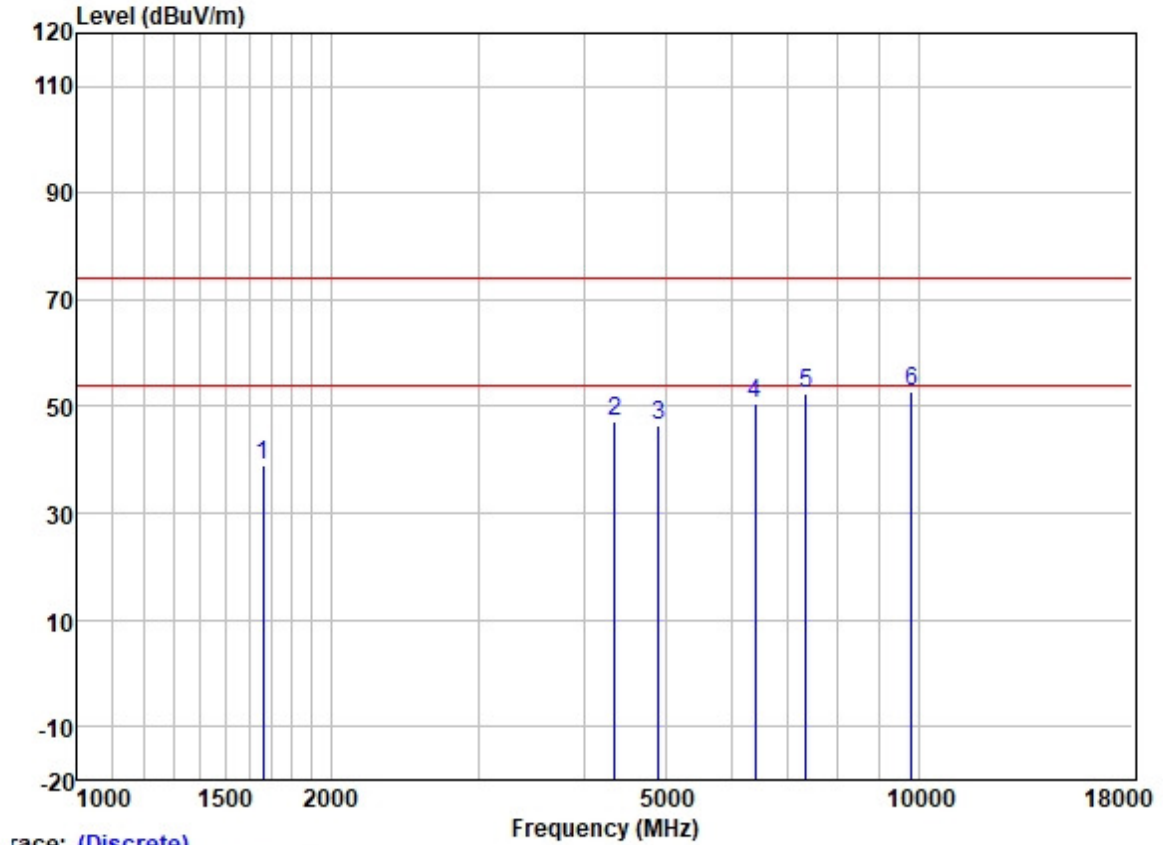
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1597.181	48.57	25.58	2.80	37.98	38.97	74.00	-35.03	HORIZONTAL Peak
2	4329.354	49.50	30.54	4.67	36.81	47.90	74.00	-26.10	HORIZONTAL Peak
3	4904.000	45.16	31.58	5.55	36.84	45.45	74.00	-28.55	HORIZONTAL Peak
4	6995.172	46.75	35.00	5.81	37.25	50.31	74.00	-23.69	HORIZONTAL Peak
5	7356.000	48.27	36.06	6.15	37.44	53.04	74.00	-20.96	HORIZONTAL Peak
6	9808.000	44.82	38.56	7.00	37.41	52.97	74.00	-21.03	HORIZONTAL Peak



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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1663.137	48.36	25.65	2.80	37.91	38.90	-35.10	VERTICAL	Peak
2	4354.454	48.67	30.59	4.68	36.81	47.13	-26.87	VERTICAL	Peak
3	4904.000	46.06	31.58	5.55	36.84	46.35	-27.65	VERTICAL	Peak
4	6395.654	47.88	33.74	5.90	36.98	50.54	-23.46	VERTICAL	Peak
5	7356.000	47.66	36.06	6.15	37.44	52.43	-21.57	VERTICAL	Peak
6	9808.000	44.64	38.56	7.00	37.41	52.79	-21.21	VERTICAL	Peak



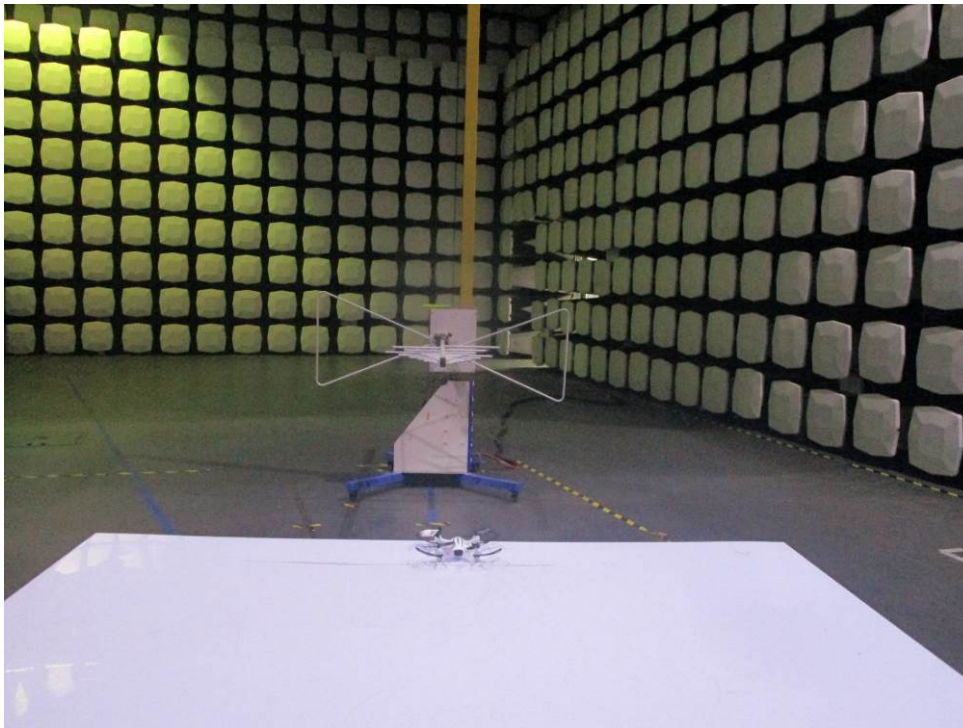
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8 Test Setup Photo

Radiated Emissions which fall in the restricted bands



Radiated Spurious Emissions (Below 1GHz)



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Radiated Spurious Emissions (Above 1GHz)



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2110021188AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

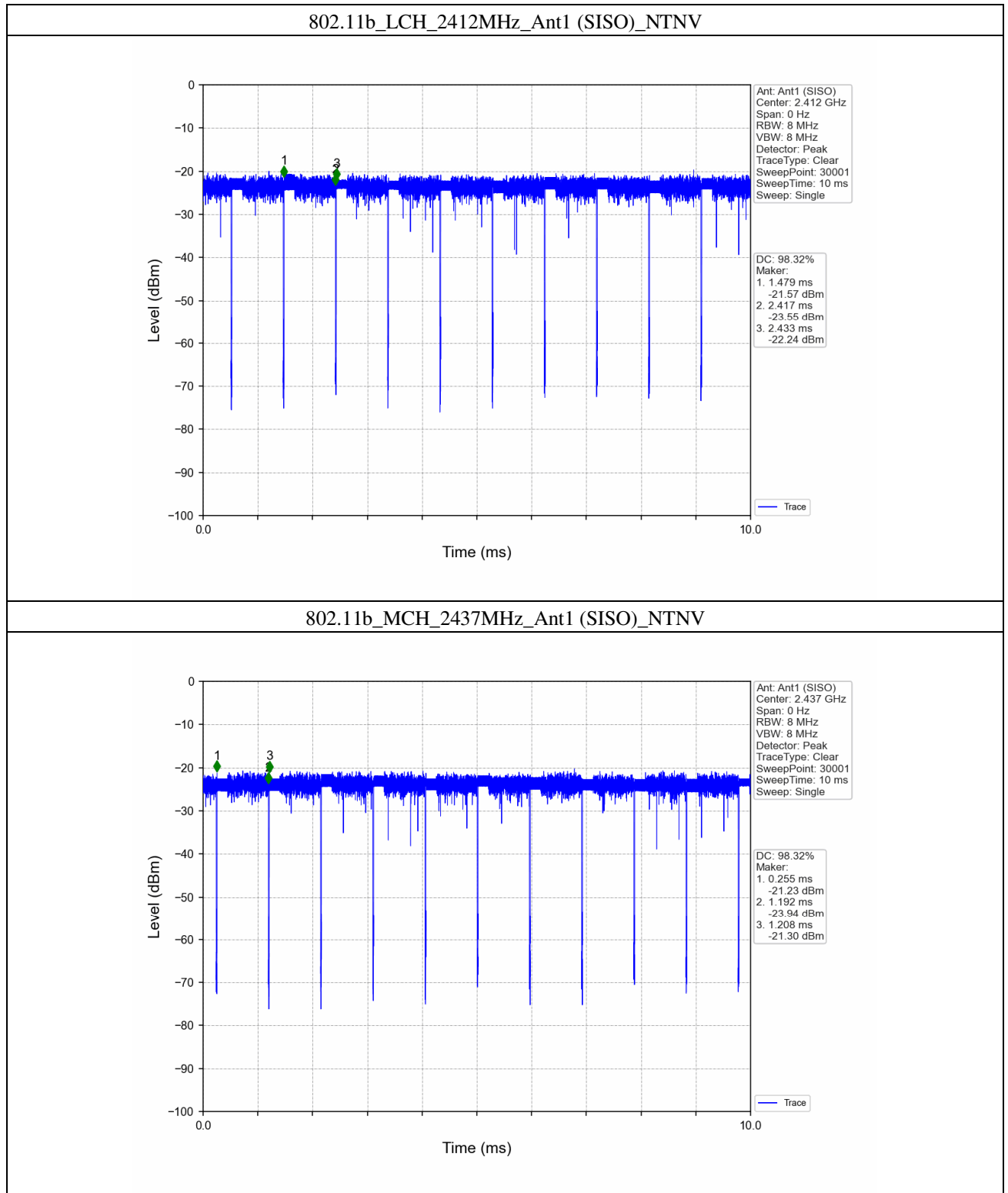
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	0.938	0.954	98.32	0.07	0.03
		2437	0.937	0.953	98.32	0.07	0.03
		2462	0.937	0.953	98.32	0.07	0.00
802.11g	SISO	2412	0.176	0.192	91.67	0.38	0.04
		2437	0.176	0.192	91.67	0.38	0.03
		2462	0.176	0.192	91.67	0.38	0.07
802.11n (HT20)	SISO	2412	0.164	0.180	91.11	0.40	0.10
		2437	0.164	0.180	91.11	0.40	0.08
		2462	0.164	0.180	91.11	0.40	0.07
802.11n (HT40)	SISO	2422	0.100	0.109	91.74	0.37	0.17
		2437	0.648	0.657	98.63	0.06	0.04
		2452	0.648	0.657	98.63	0.06	0.04



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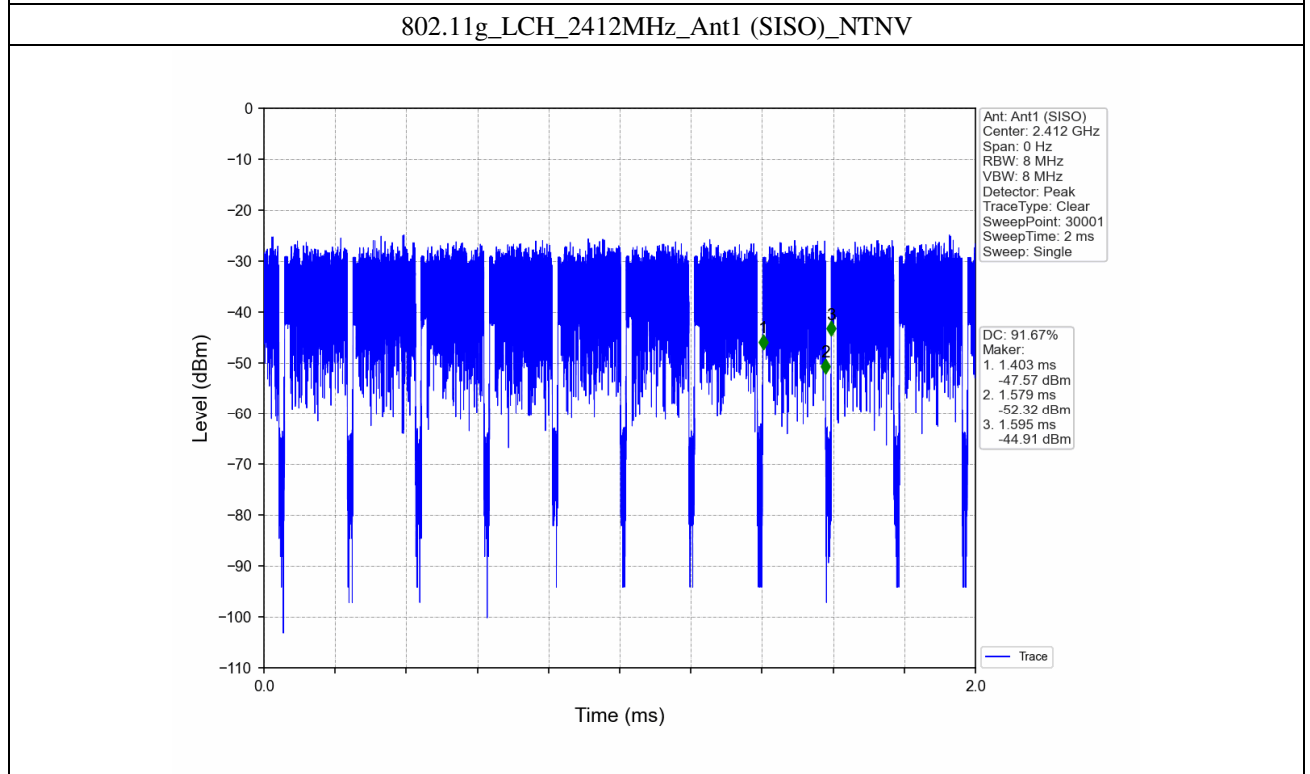
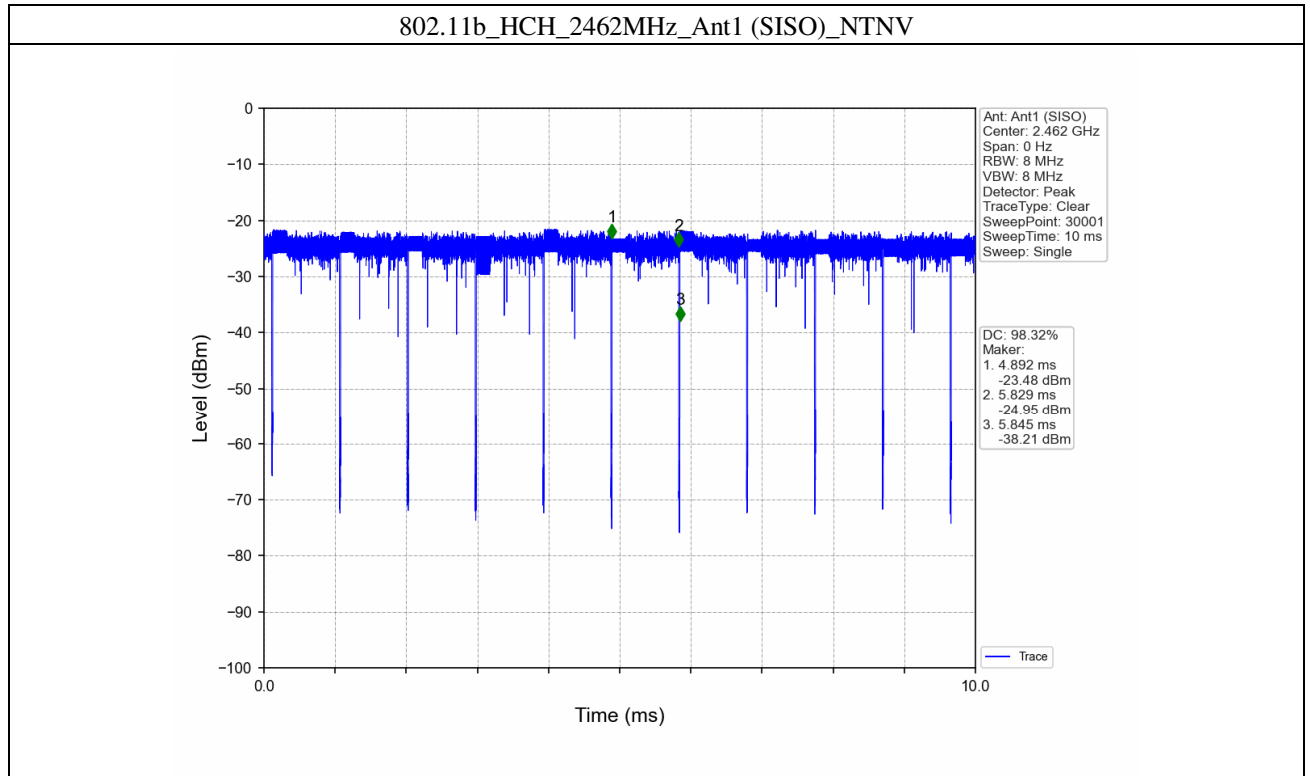
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1.1.2 Test Graph



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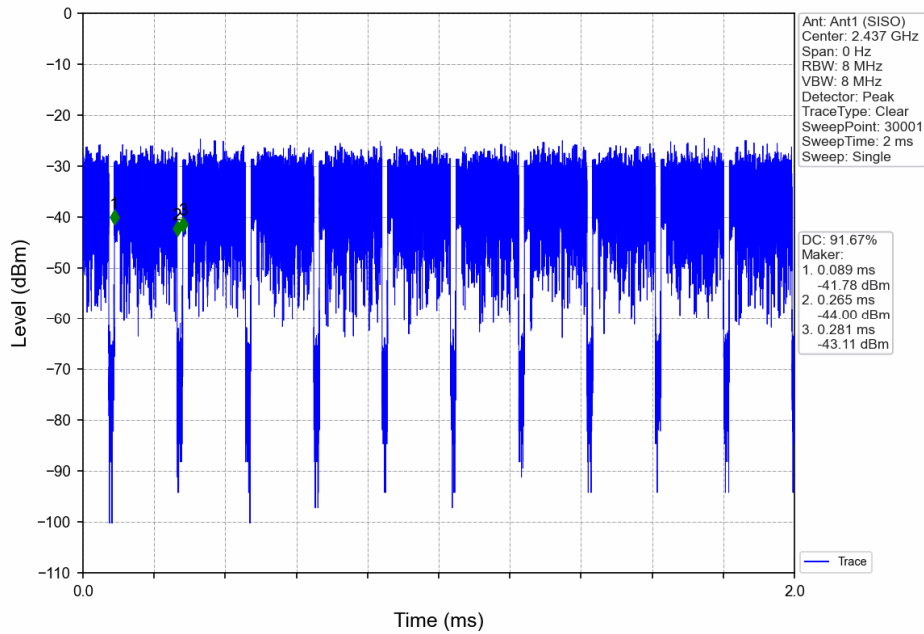
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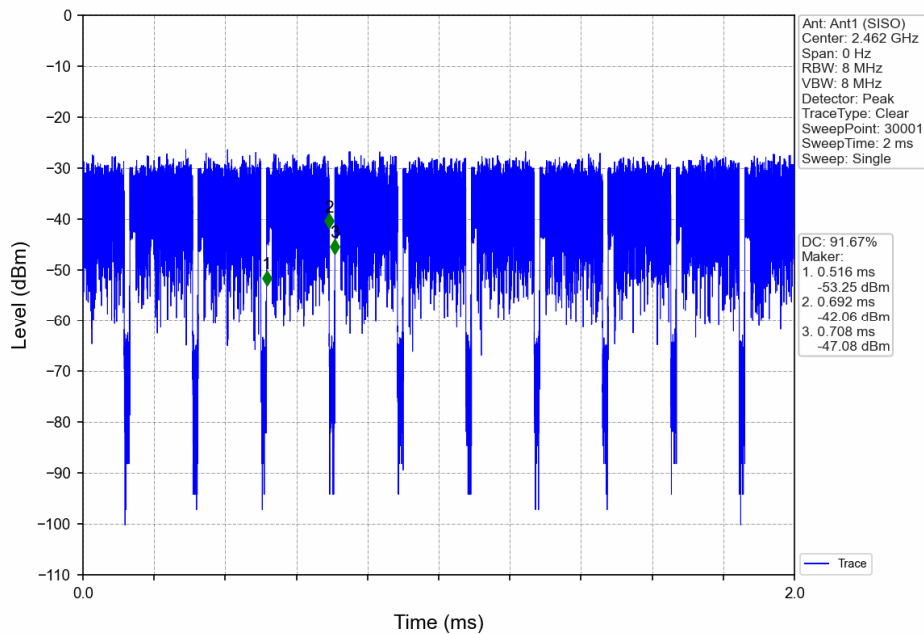
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

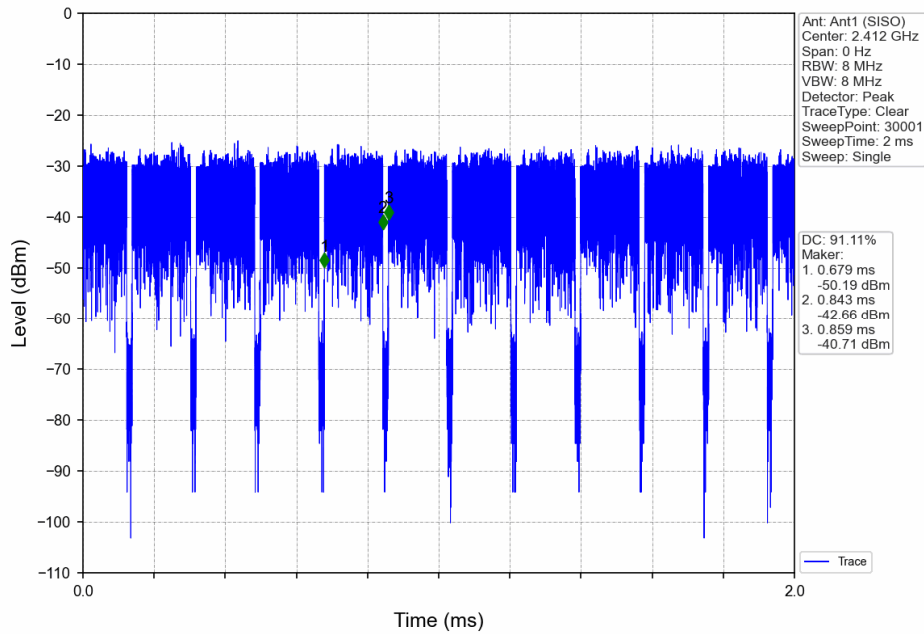


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

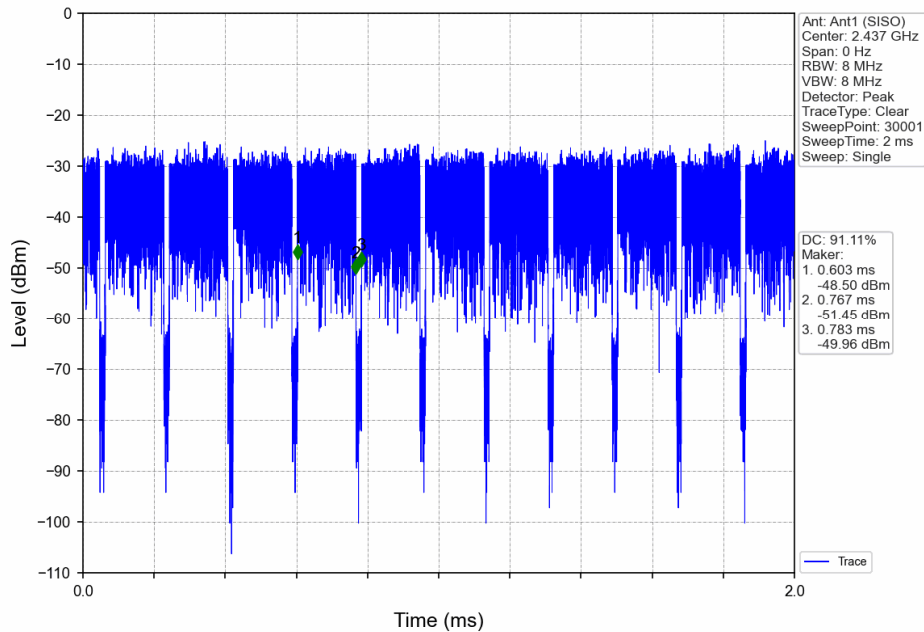


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

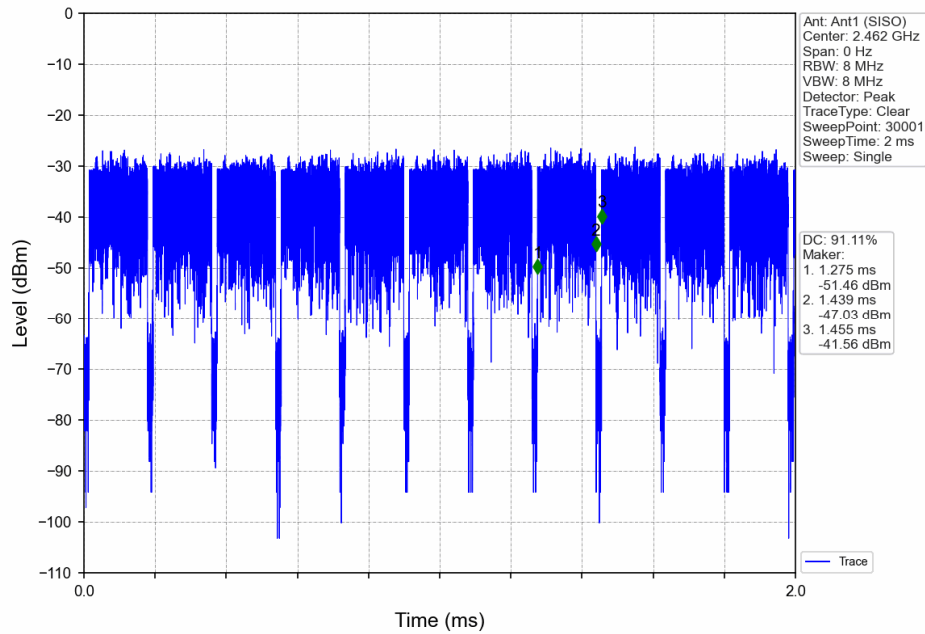


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

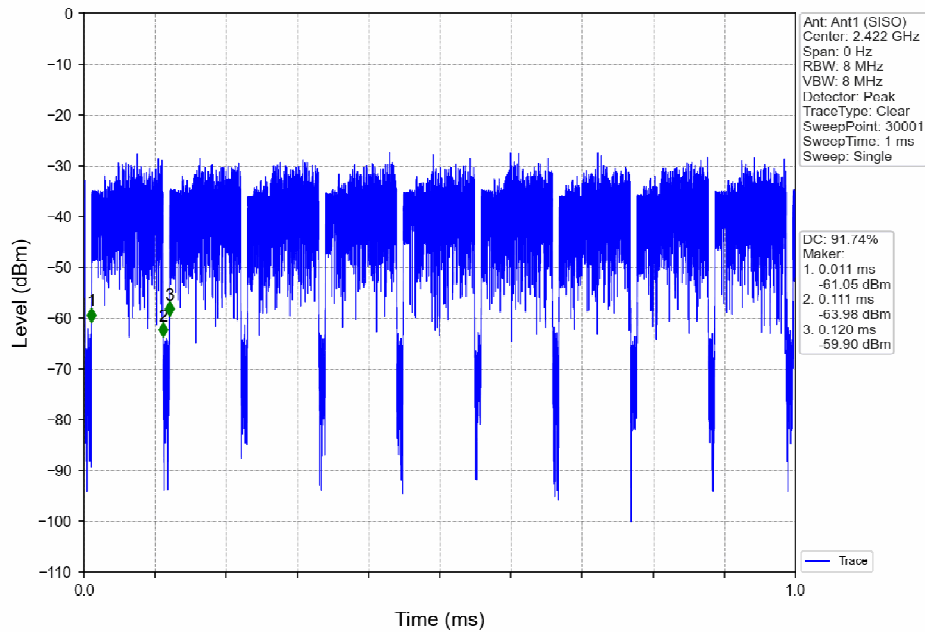


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

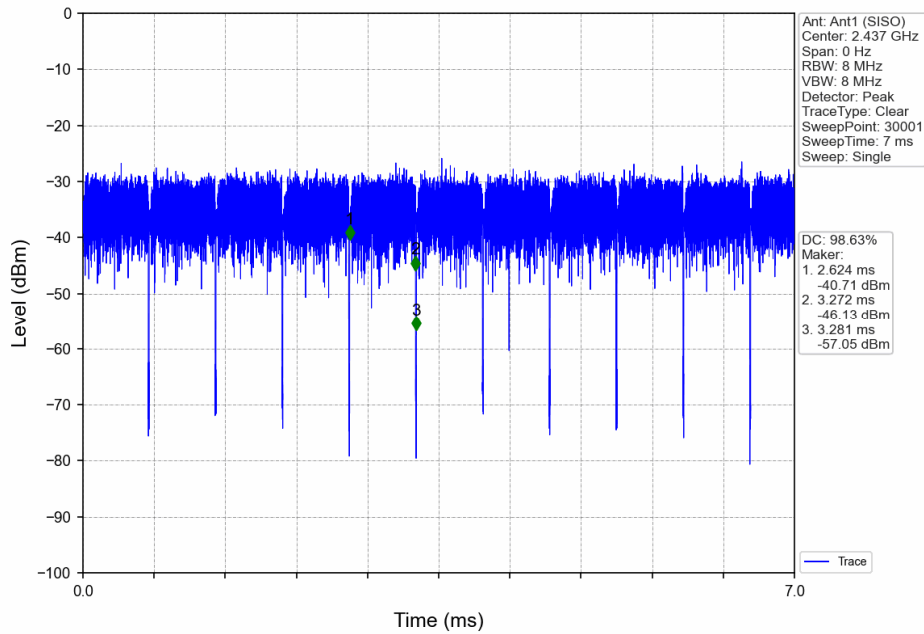


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

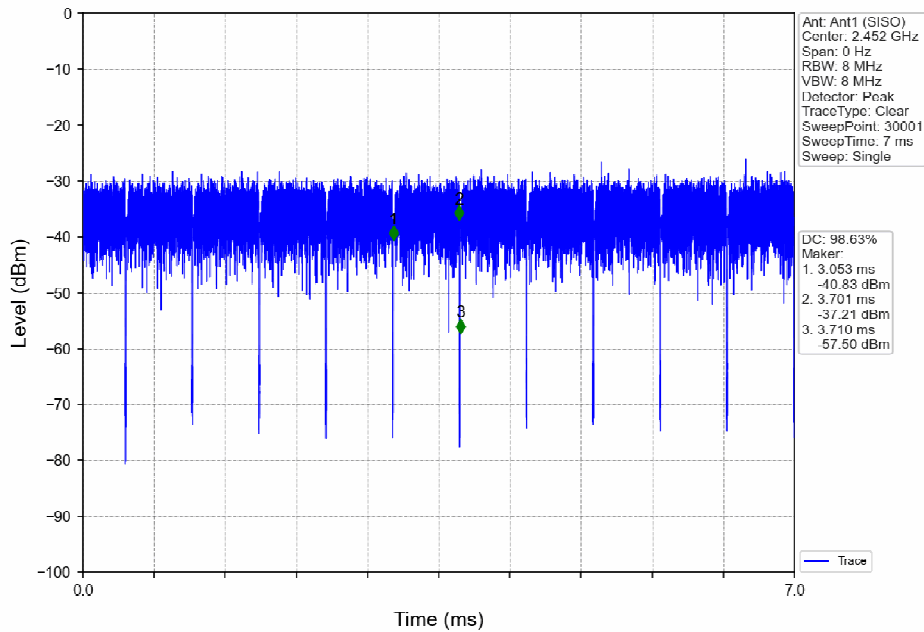


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

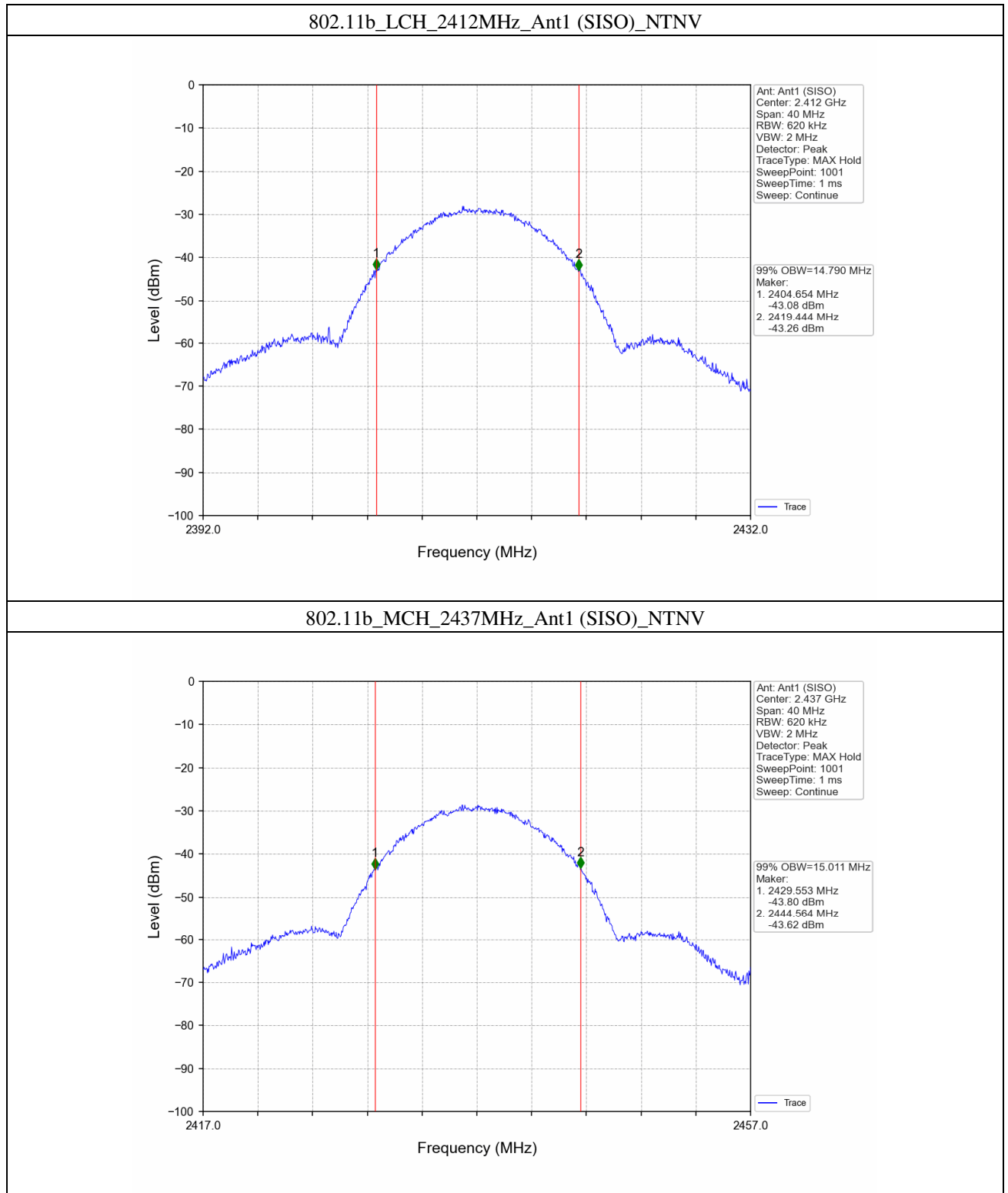
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11b	SISO	2412	1	14.790	Pass
		2437	1	15.011	Pass
		2462	1	14.858	Pass
802.11g	SISO	2412	1	16.959	Pass
		2437	1	17.079	Pass
		2462	1	17.147	Pass
802.11n (HT20)	SISO	2412	1	17.971	Pass
		2437	1	18.124	Pass
		2462	1	18.080	Pass
802.11n (HT40)	SISO	2422	1	36.639	Pass
		2437	1	36.722	Pass
		2452	1	36.668	Pass



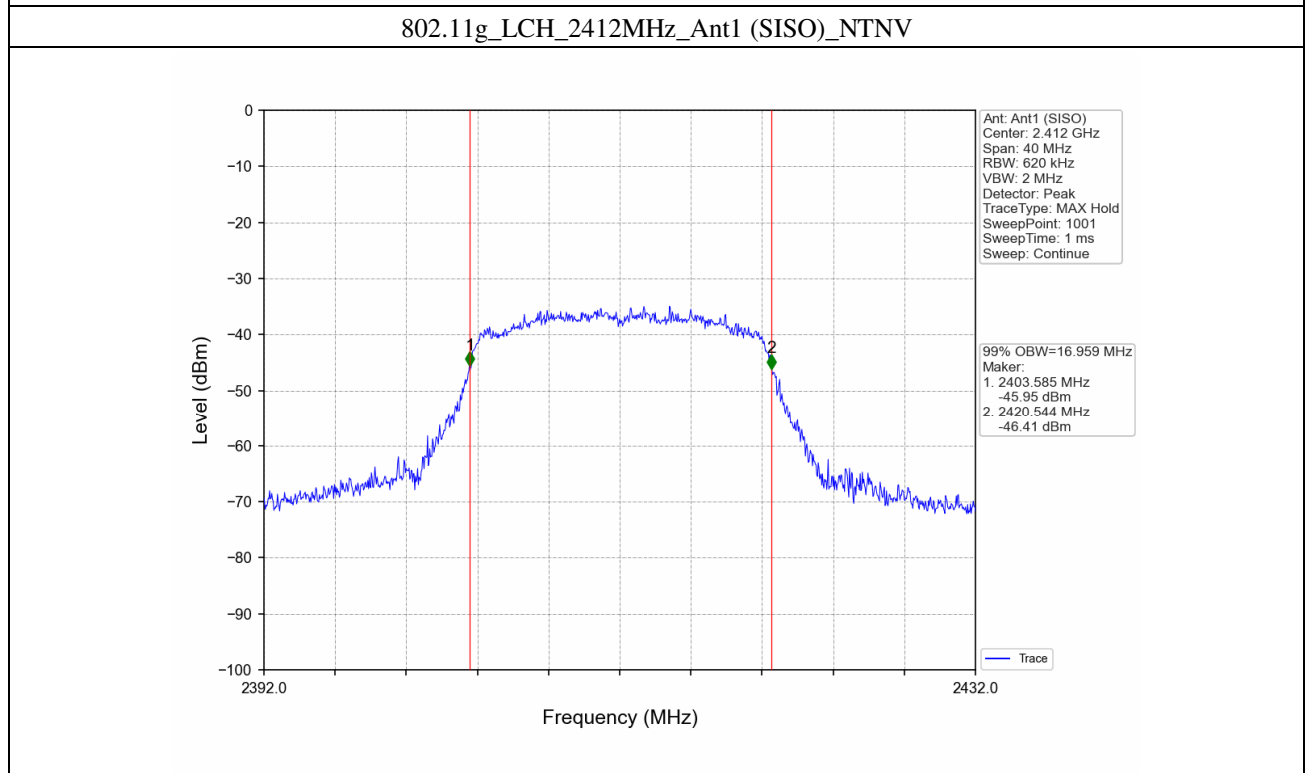
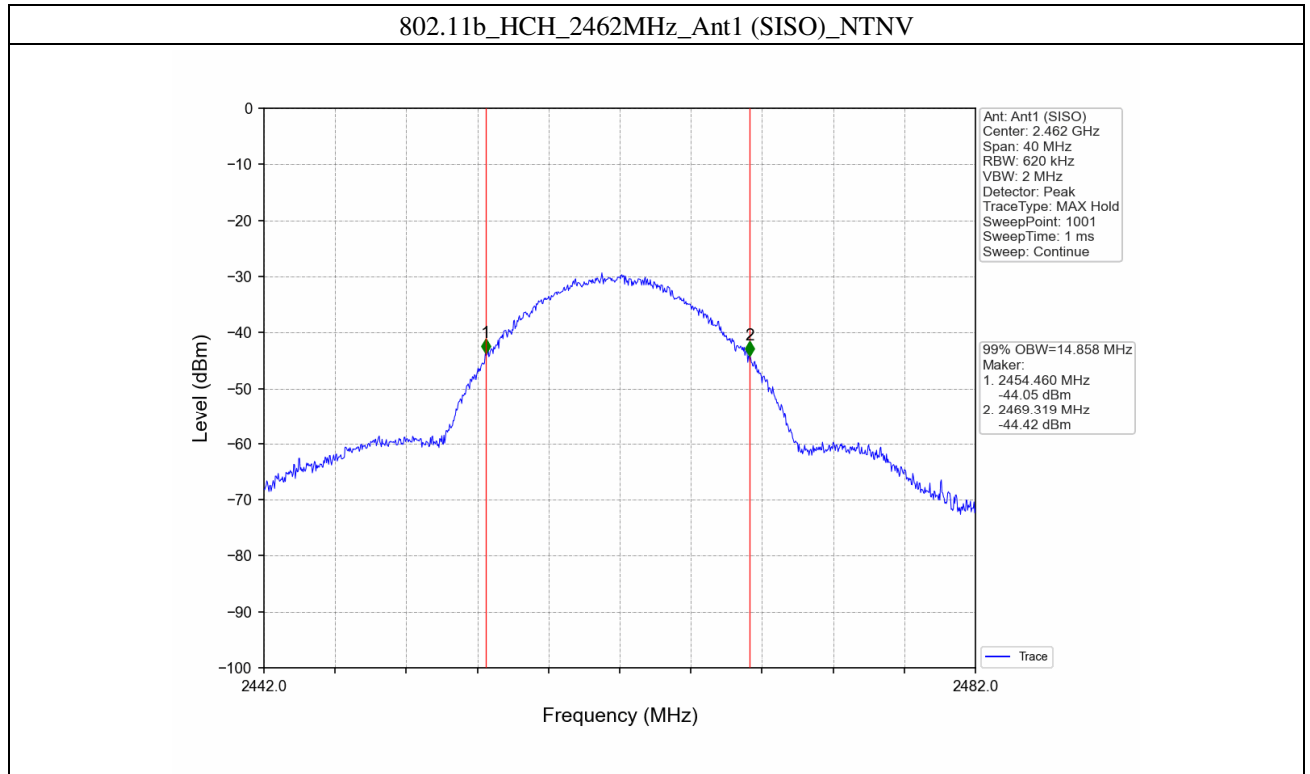
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2.1.2 Test Graph



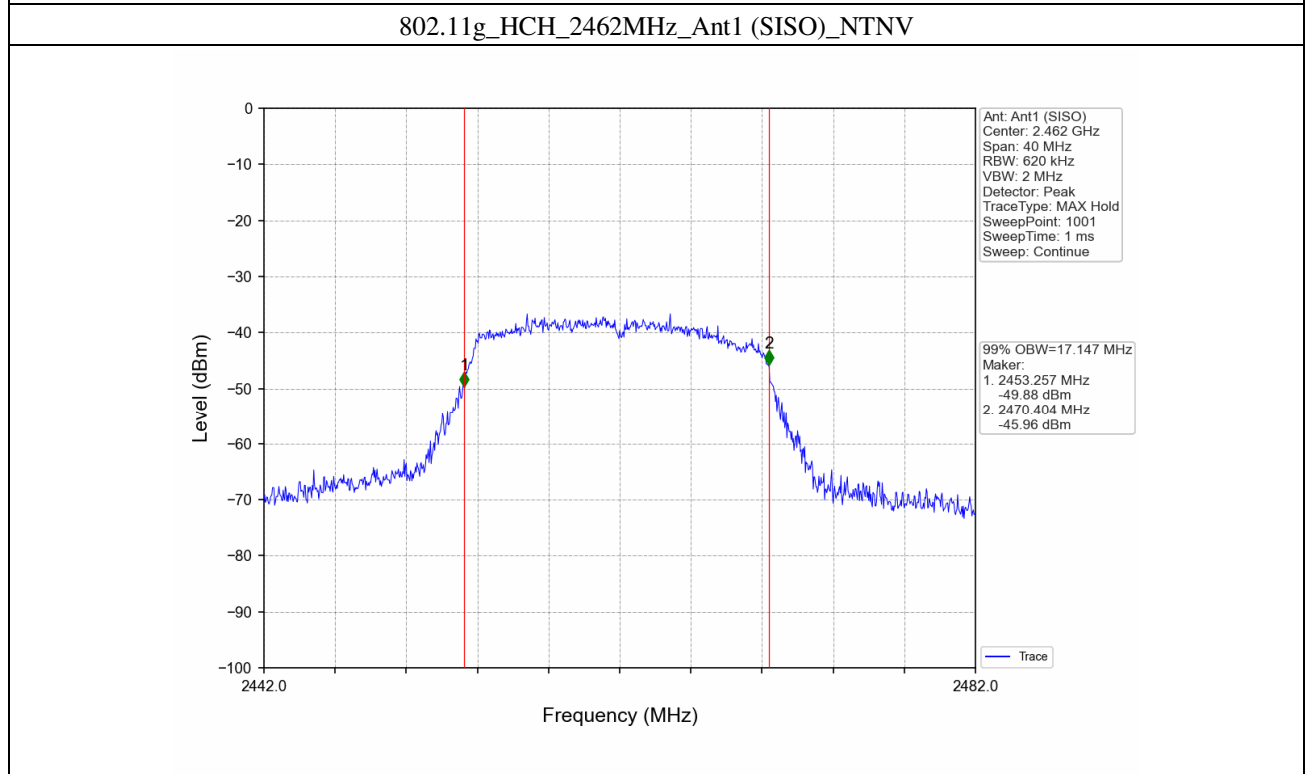
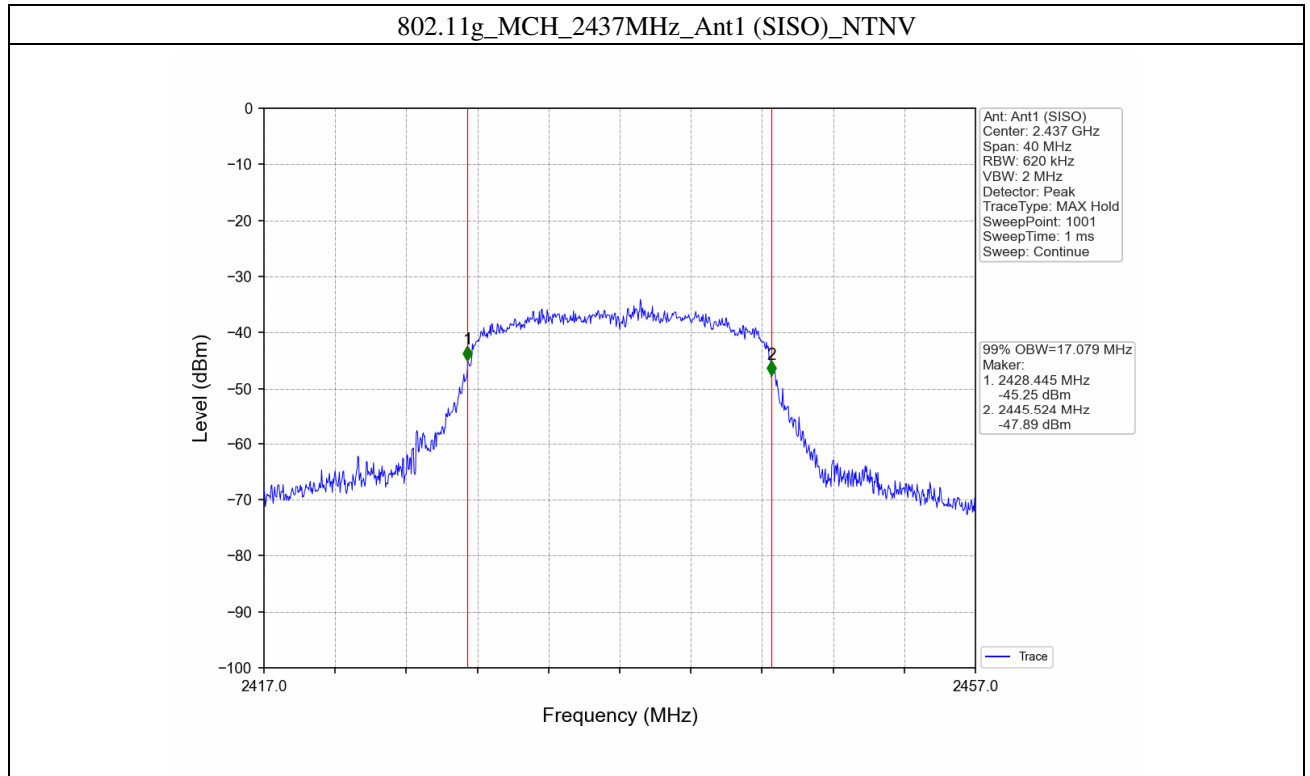
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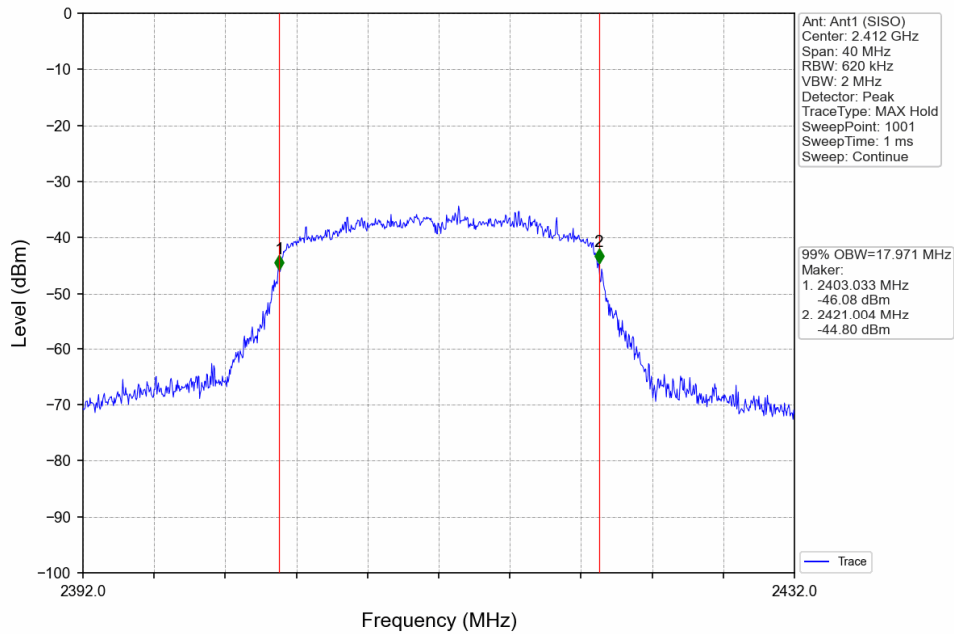
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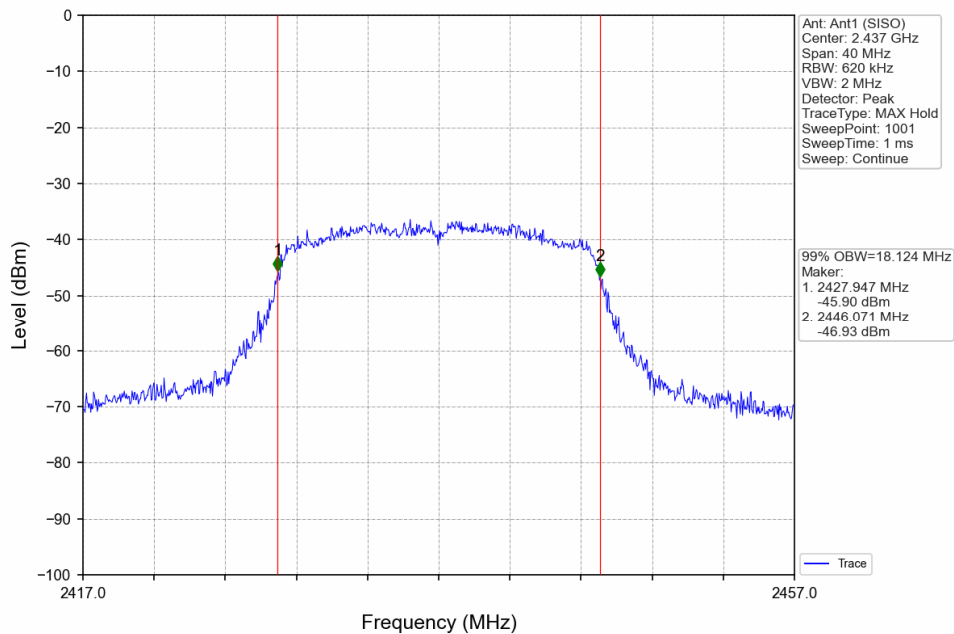


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

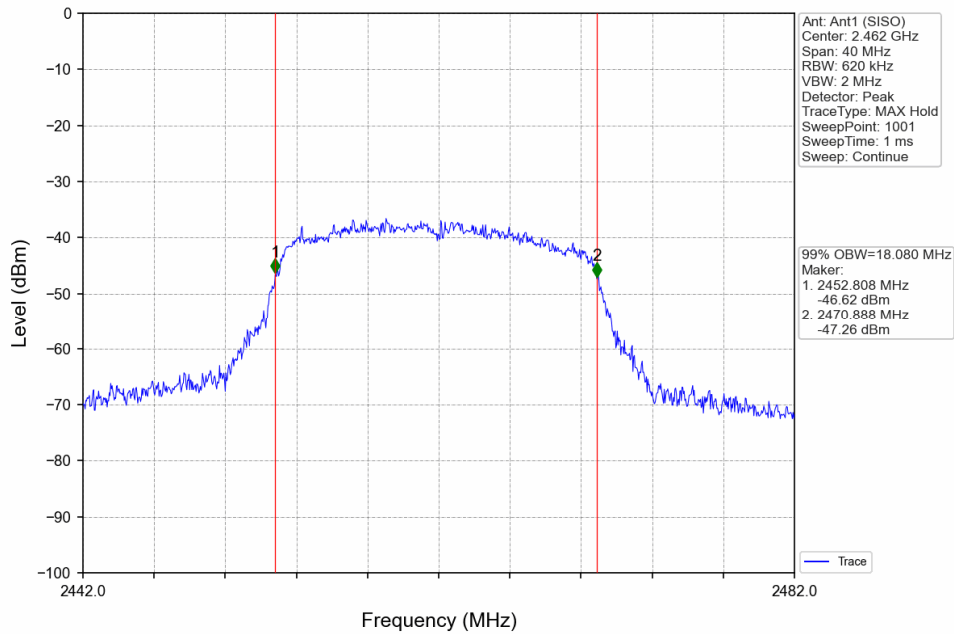


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

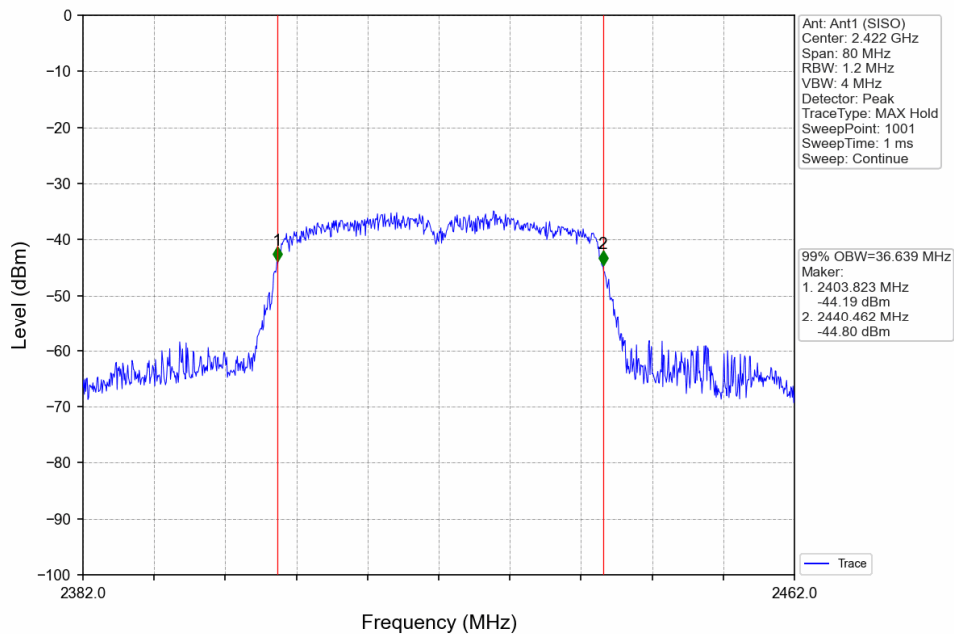


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



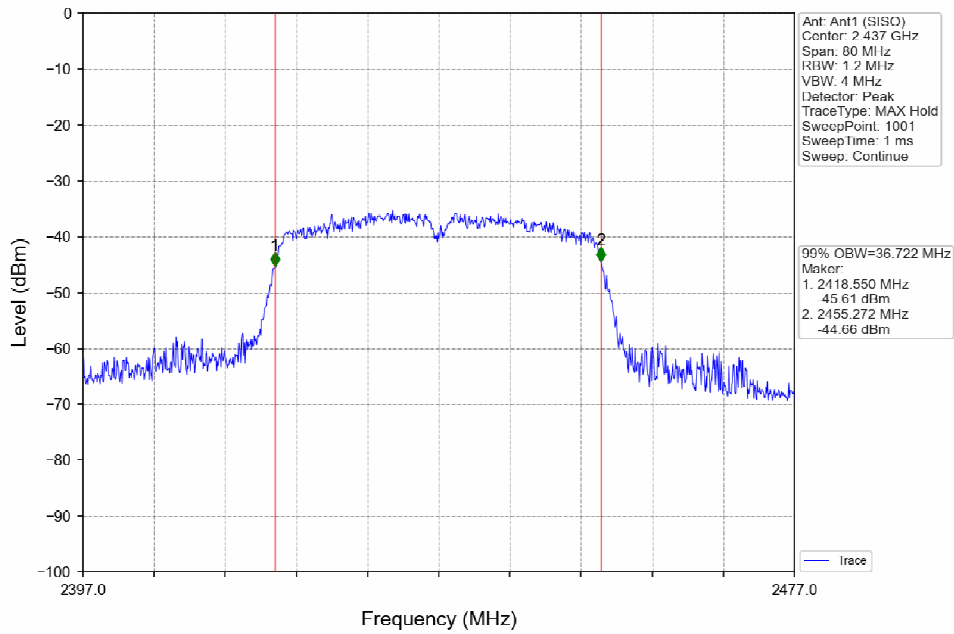
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



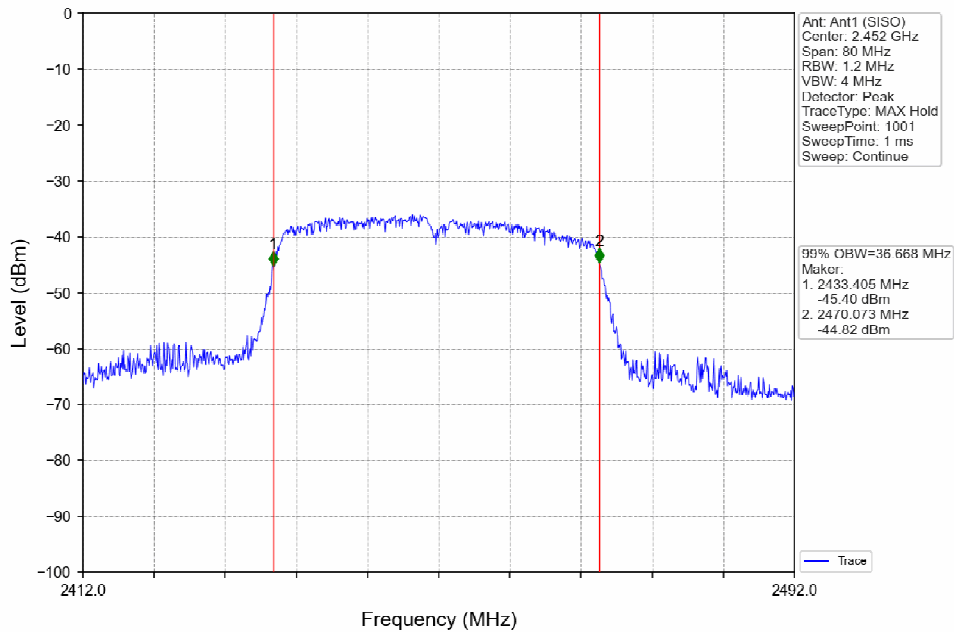
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

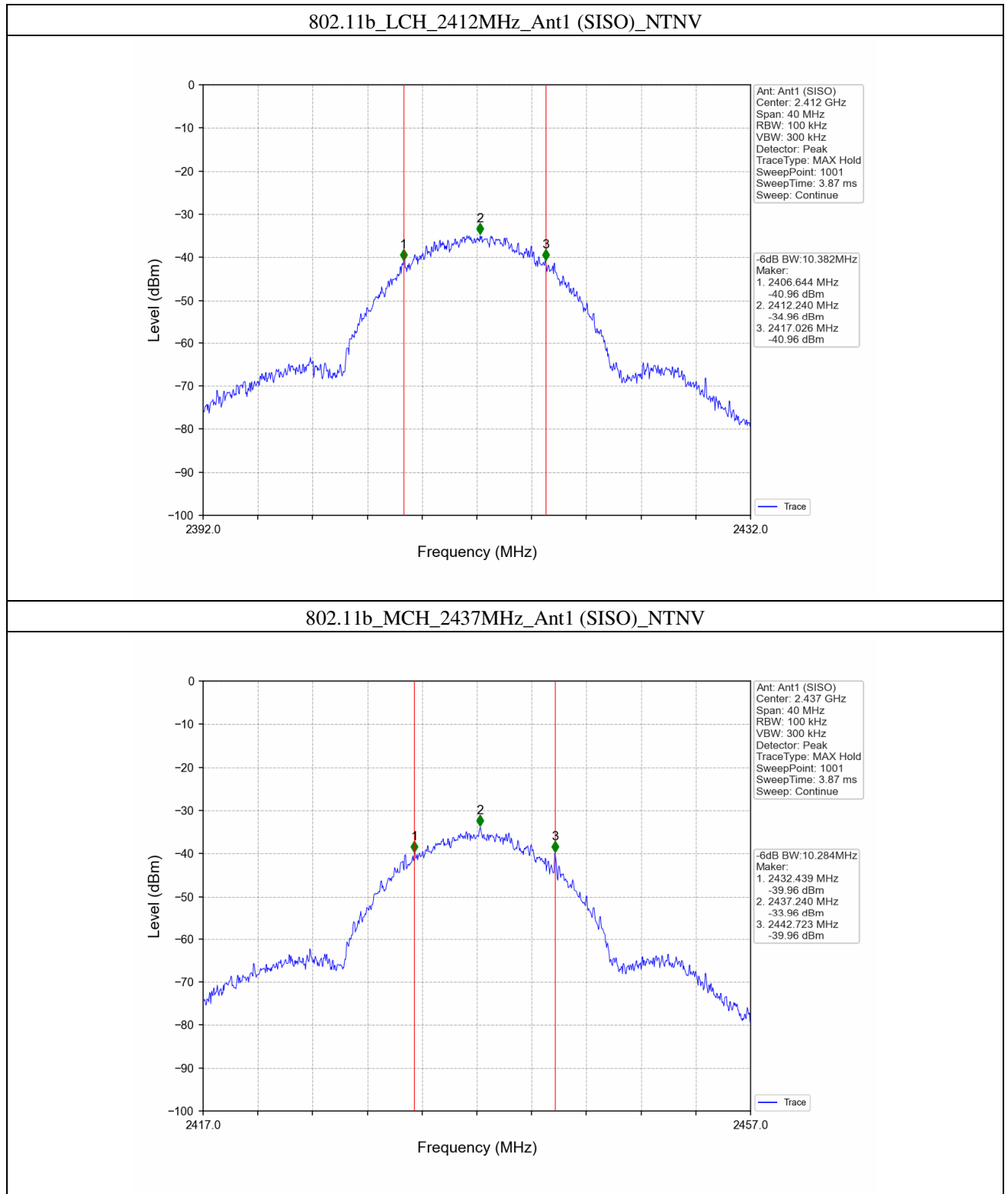
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.382	>=0.5	Pass
		2437	1	10.284	>=0.5	Pass
		2462	1	9.344	>=0.5	Pass
802.11g	SISO	2412	1	15.735	>=0.5	Pass
		2437	1	15.713	>=0.5	Pass
		2462	1	15.733	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	15.150	>=0.5	Pass
		2437	1	15.590	>=0.5	Pass
		2462	1	16.005	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	33.913	>=0.5	Pass
		2437	1	35.147	>=0.5	Pass
		2452	1	35.160	>=0.5	Pass



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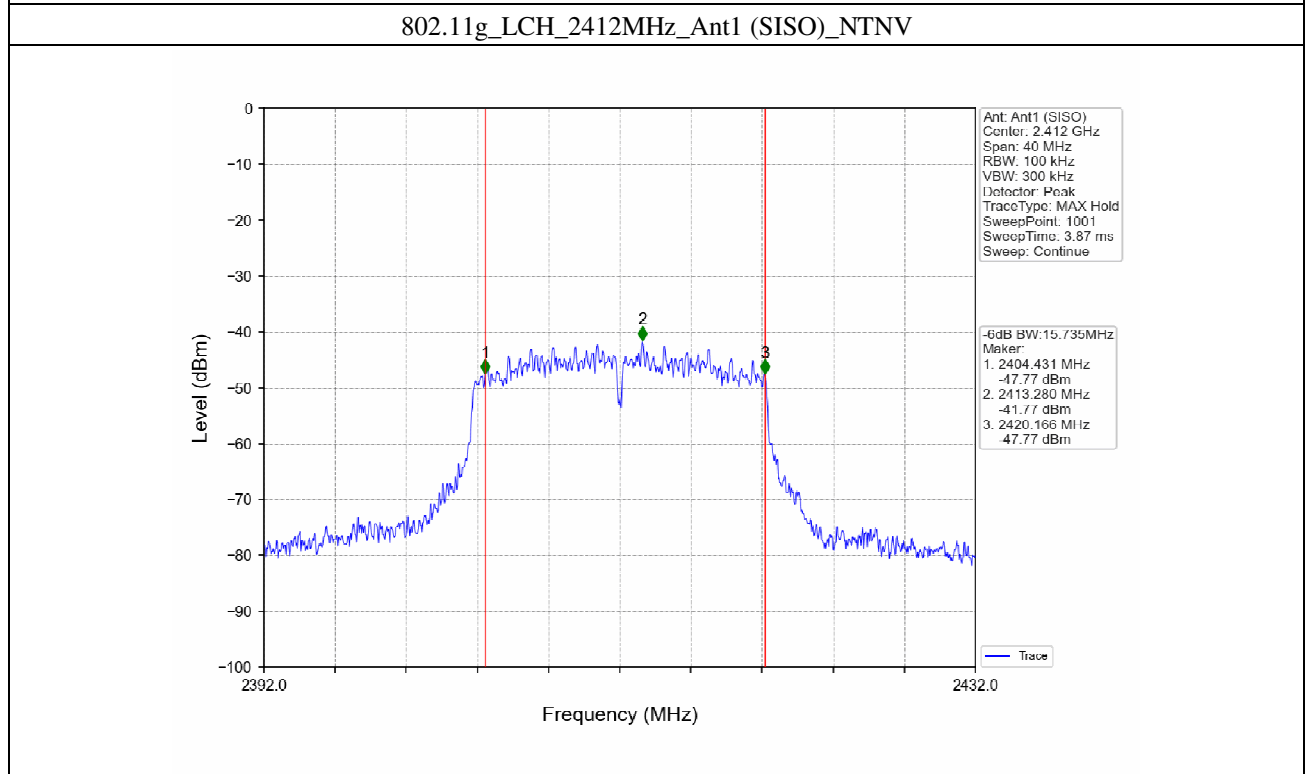
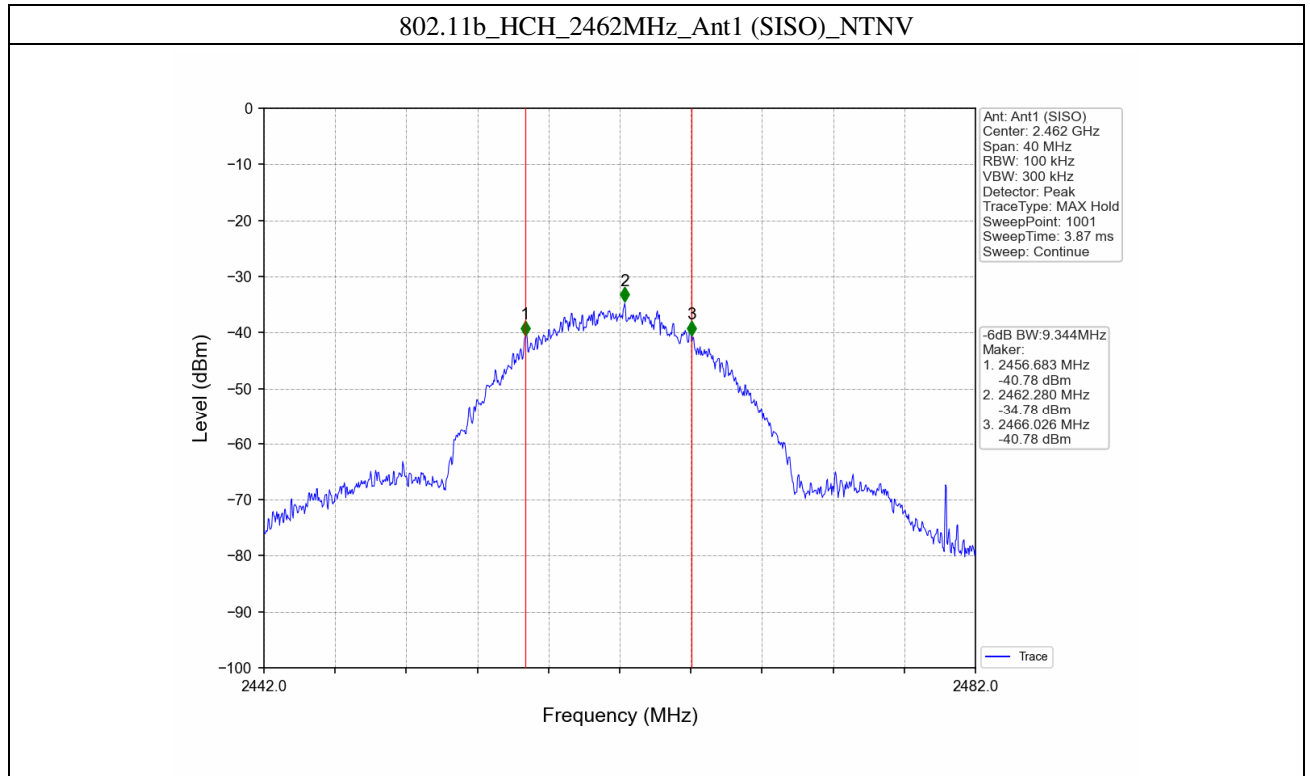
2.2.2 Test Graph



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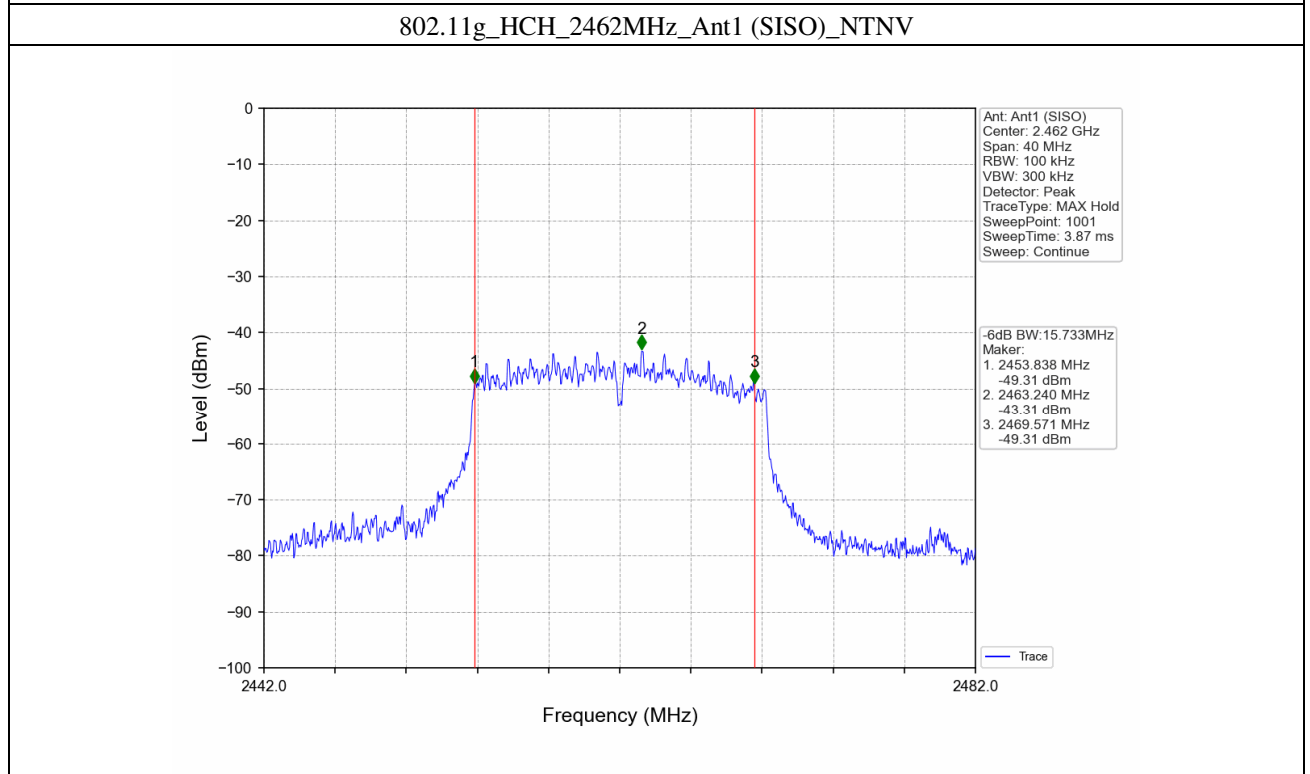
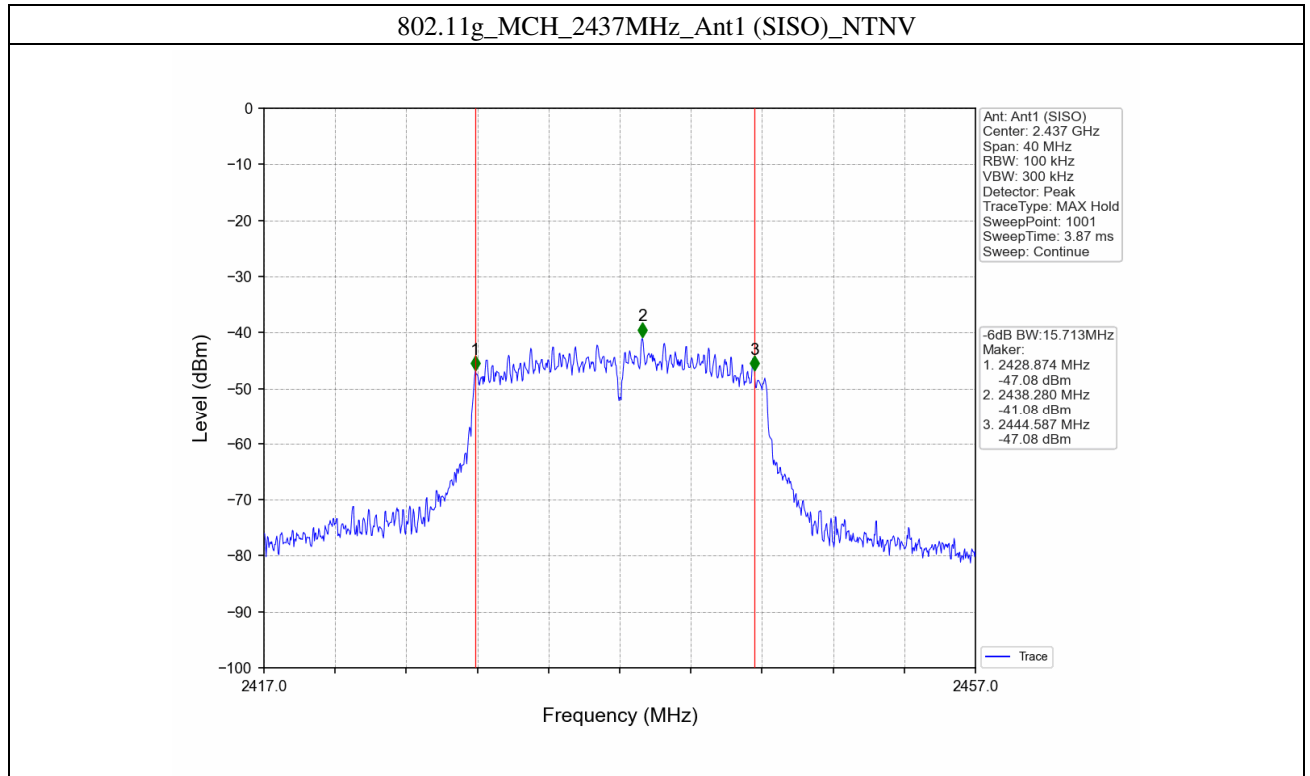
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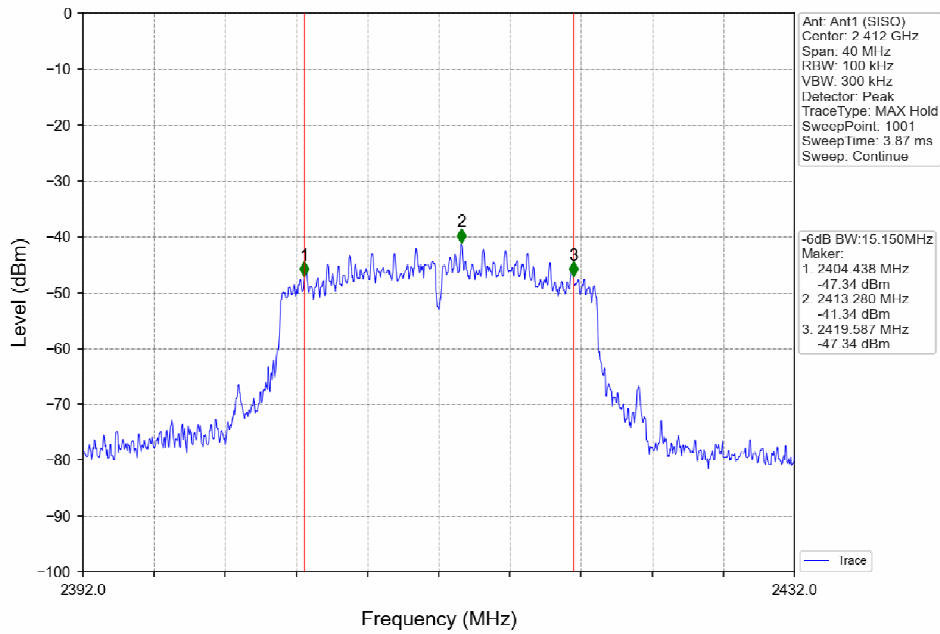
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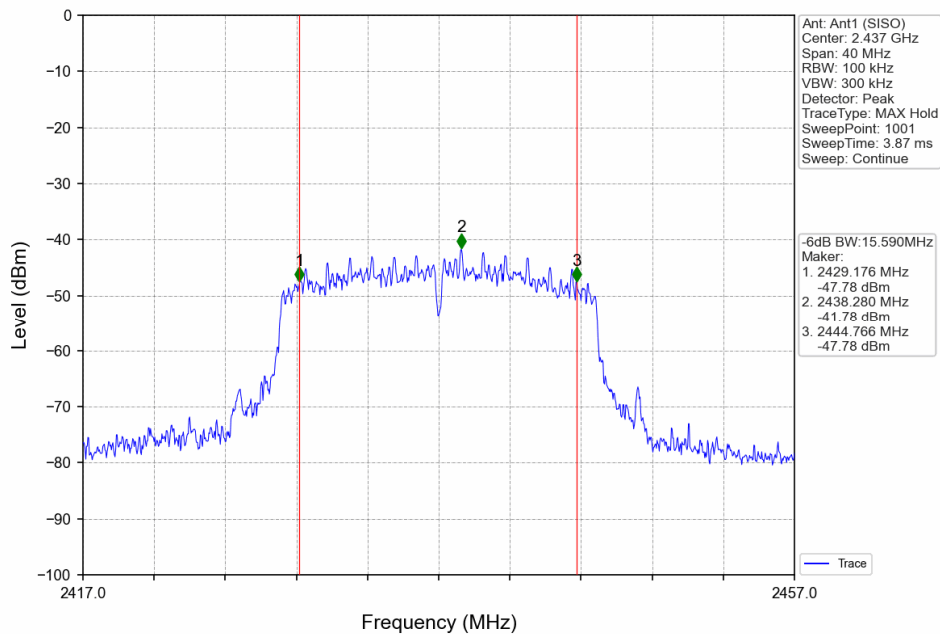
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

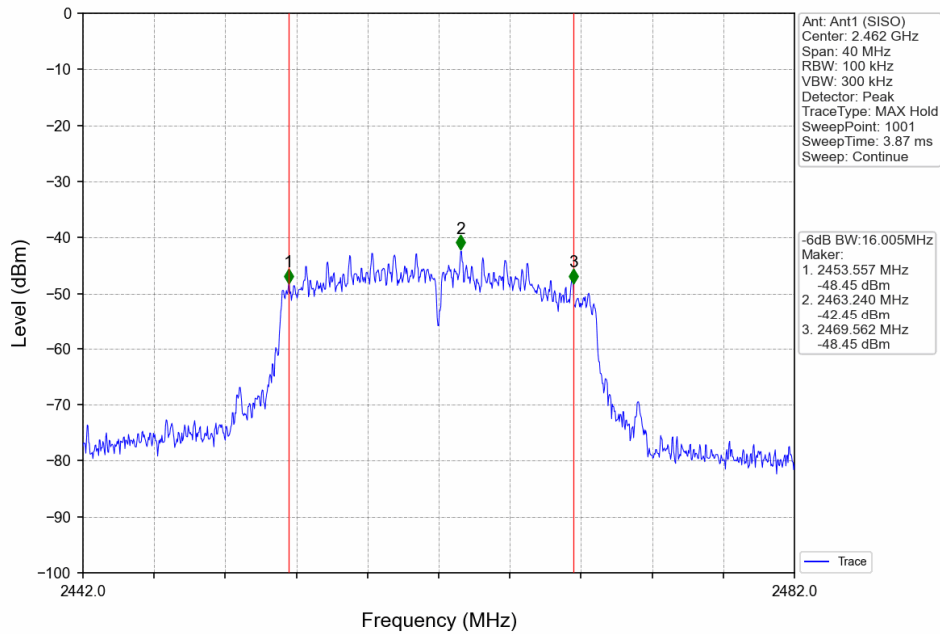


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

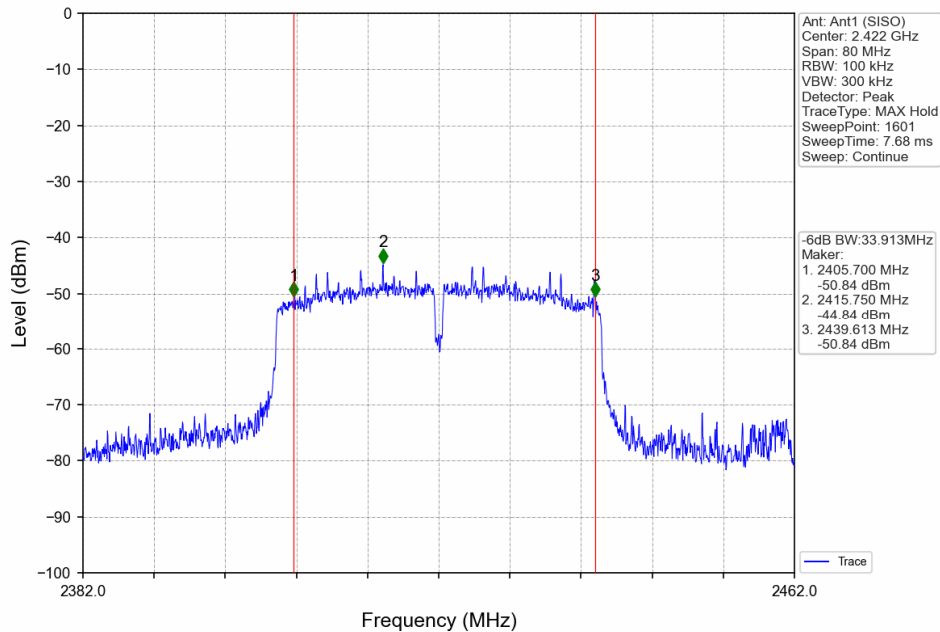


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

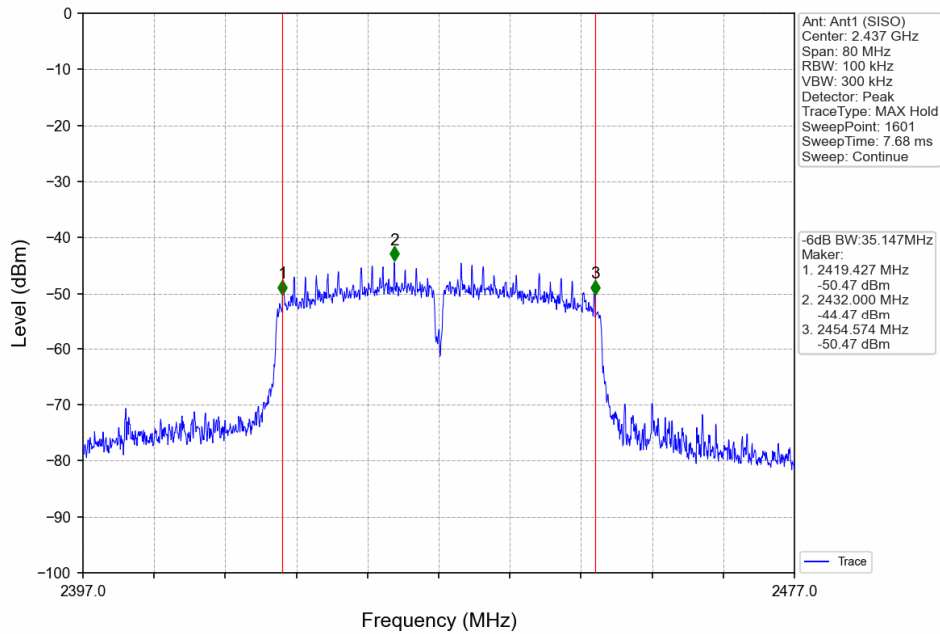


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

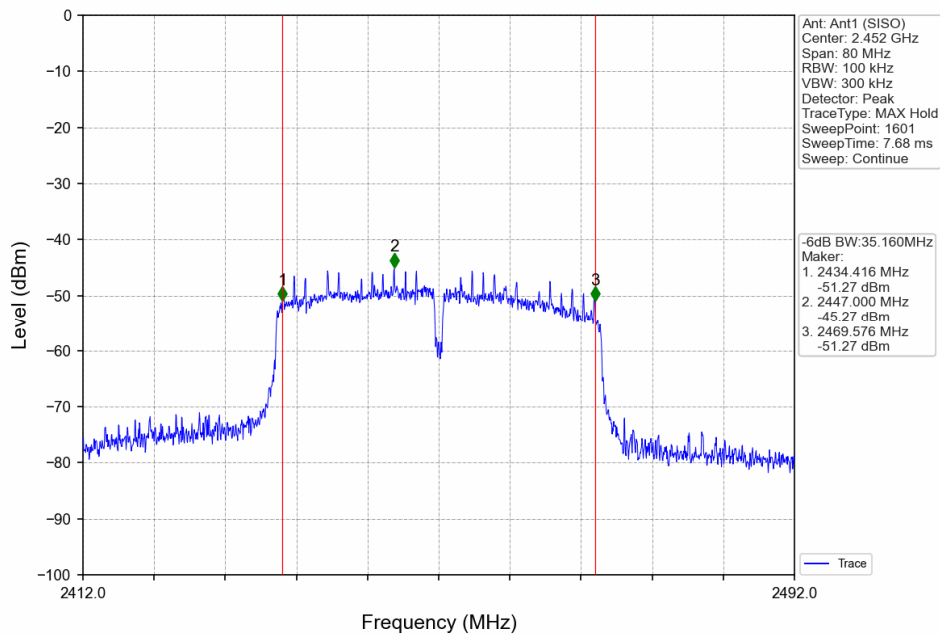


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_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	-18.82	<=30	Pass
		2437	-19.25	<=30	Pass
		2462	-20.43	<=30	Pass
802.11g	SISO	2412	-24.05	<=30	Pass
		2437	-23.62	<=30	Pass
		2462	-24.70	<=30	Pass
802.11n (HT20)	SISO	2412	-23.71	<=30	Pass
		2437	-24.27	<=30	Pass
		2462	-24.70	<=30	Pass
802.11n (HT40)	SISO	2422	-23.71	<=30	Pass
		2437	-23.15	<=30	Pass
		2452	-24.29	<=30	Pass

Note1: Antenna Gain: Ant1: 2.00dBi;



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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	-48.73	<=8	Pass
		2437	-49.22	<=8	Pass
		2462	-50.32	<=8	Pass
802.11g	SISO	2412	-57.31	<=8	Pass
		2437	-56.63	<=8	Pass
		2462	-57.73	<=8	Pass
802.11n (HT20)	SISO	2412	-56.53	<=8	Pass
		2437	-57.39	<=8	Pass
		2462	-57.52	<=8	Pass
802.11n (HT40)	SISO	2422	-59.52	<=8	Pass
		2437	-58.72	<=8	Pass
		2452	-57.68	<=8	Pass

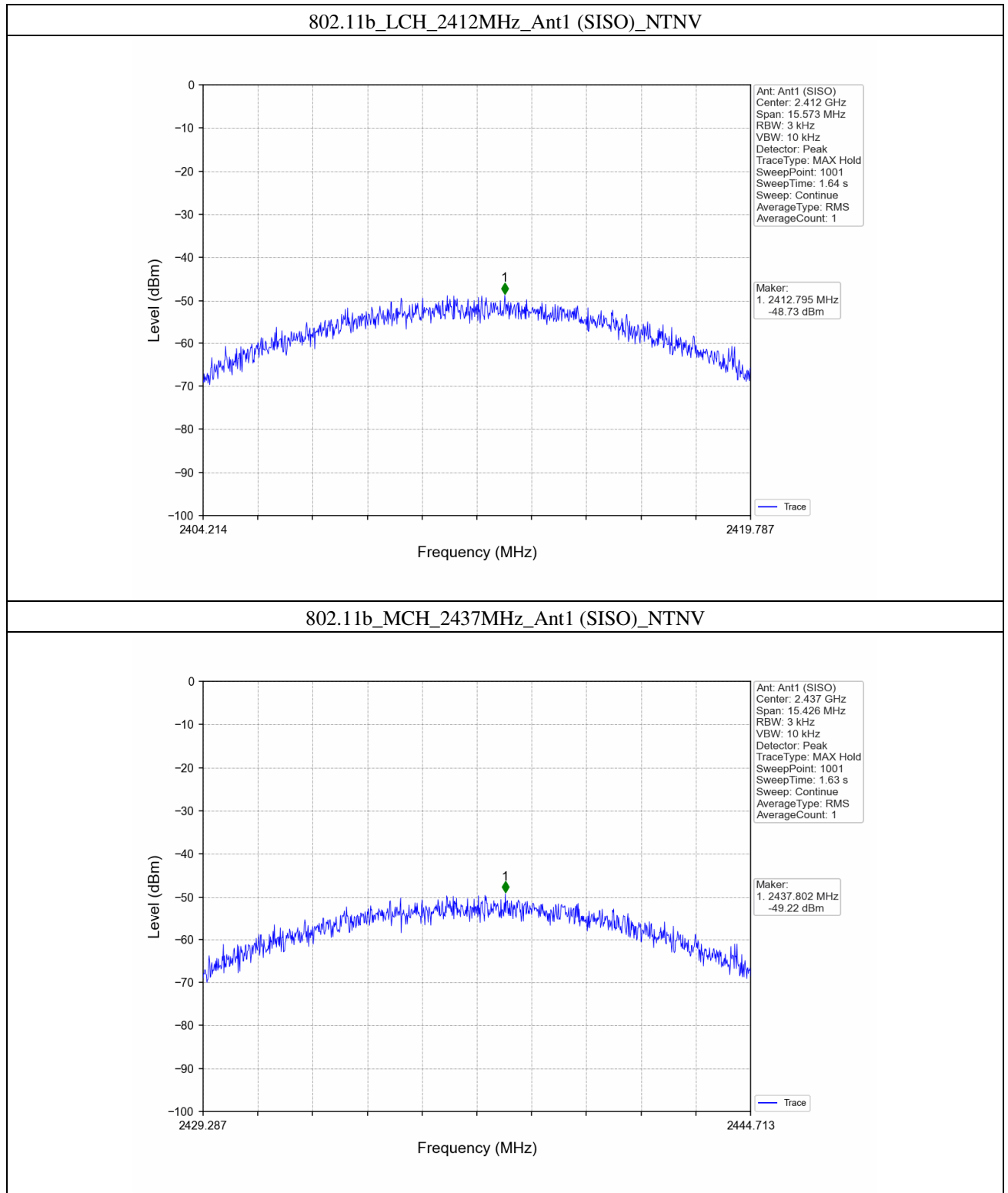
Note1: Antenna Gain: Ant1: 2.00dBi;



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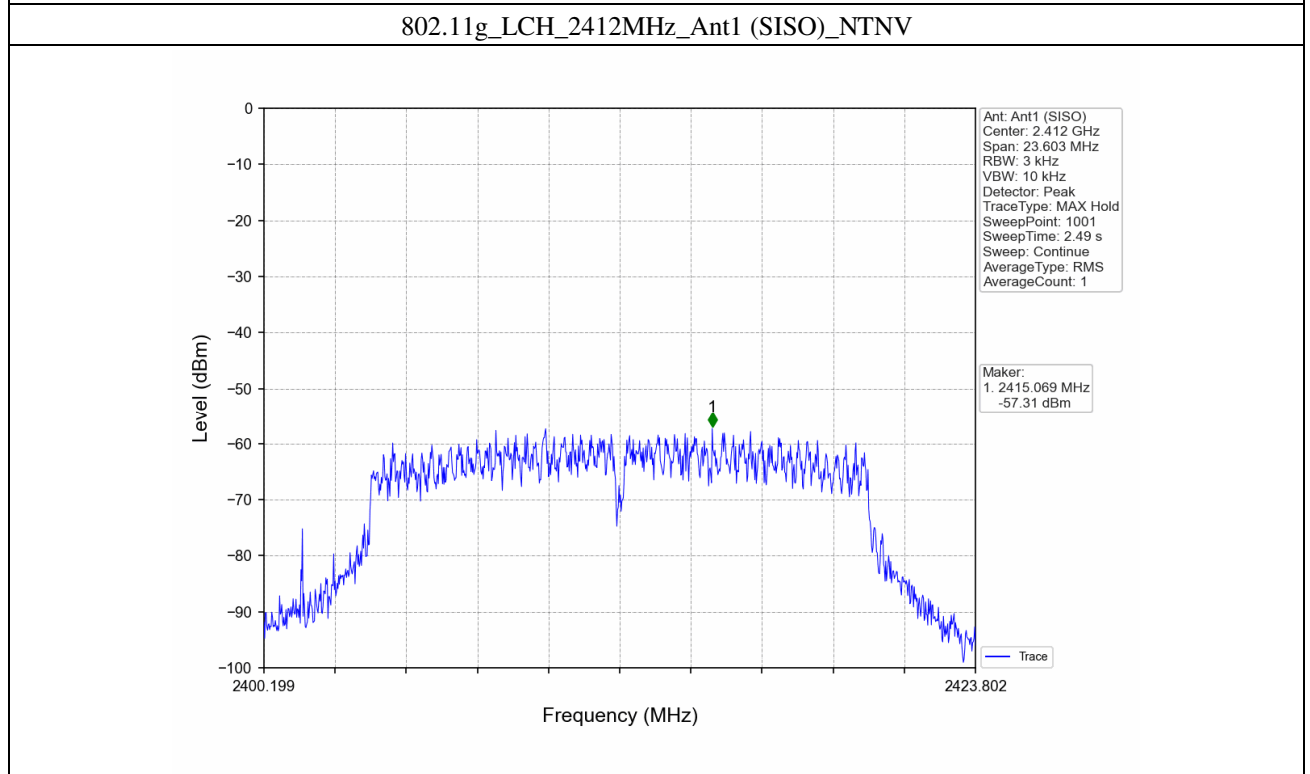
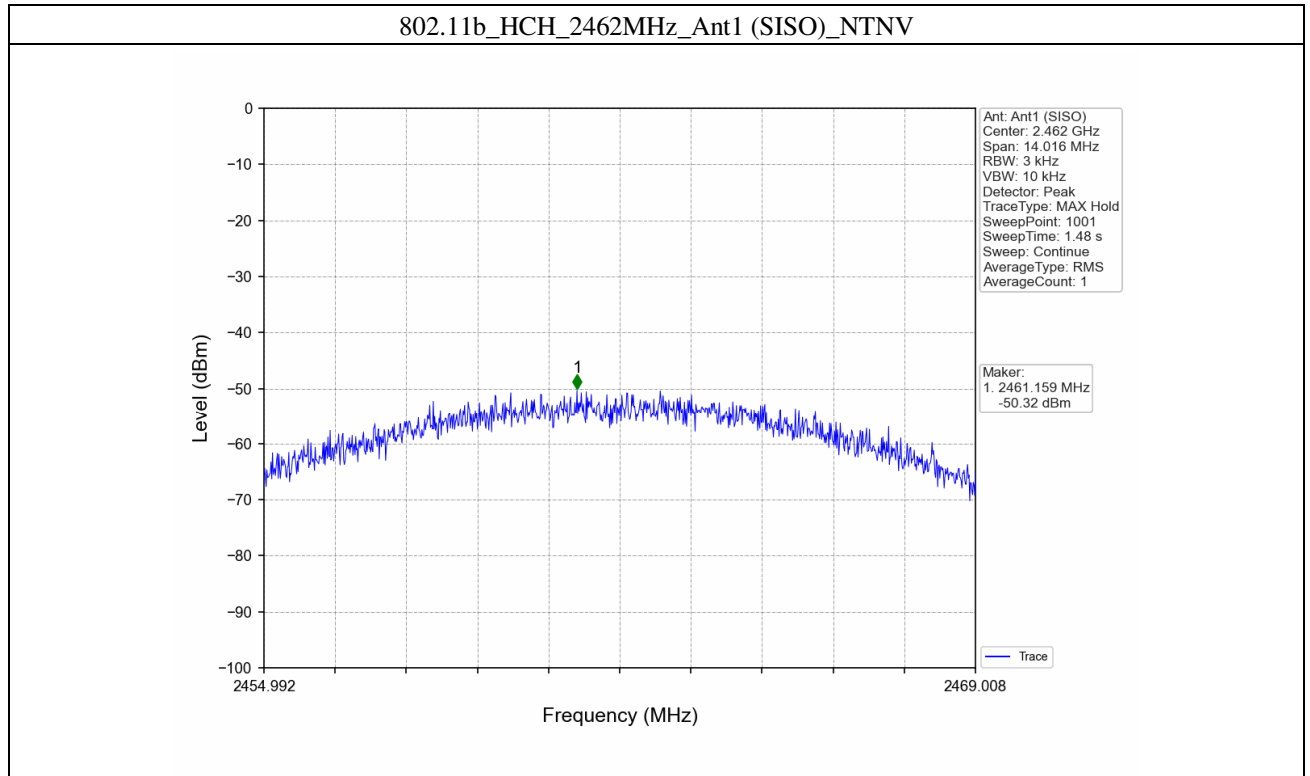
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4.1.2 Test Graph



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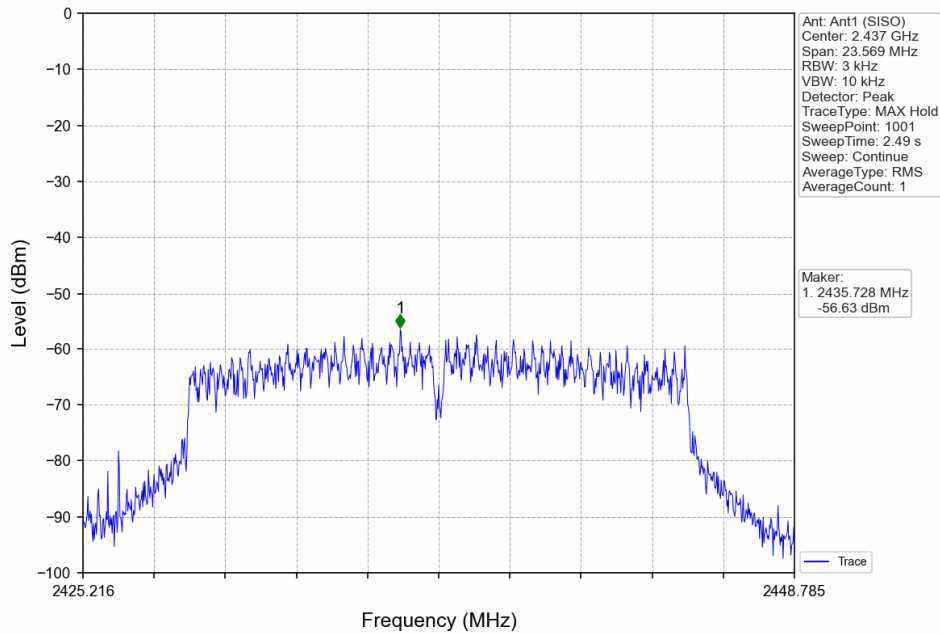


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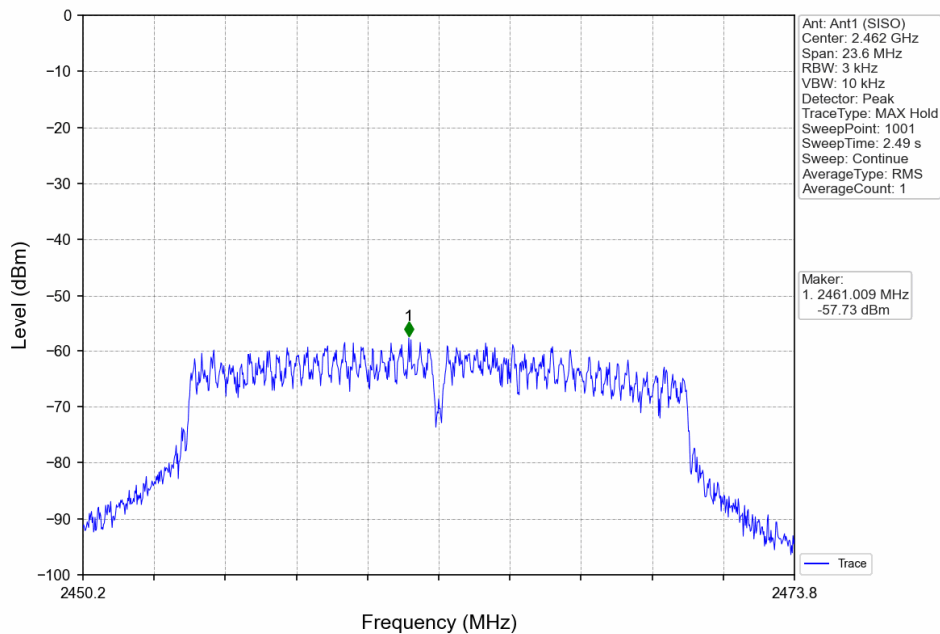
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

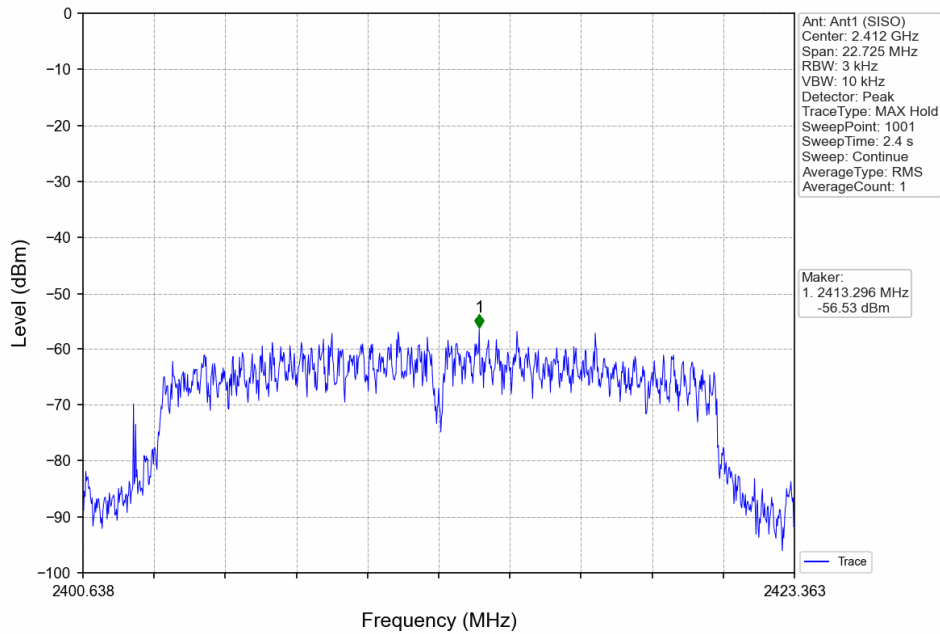


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

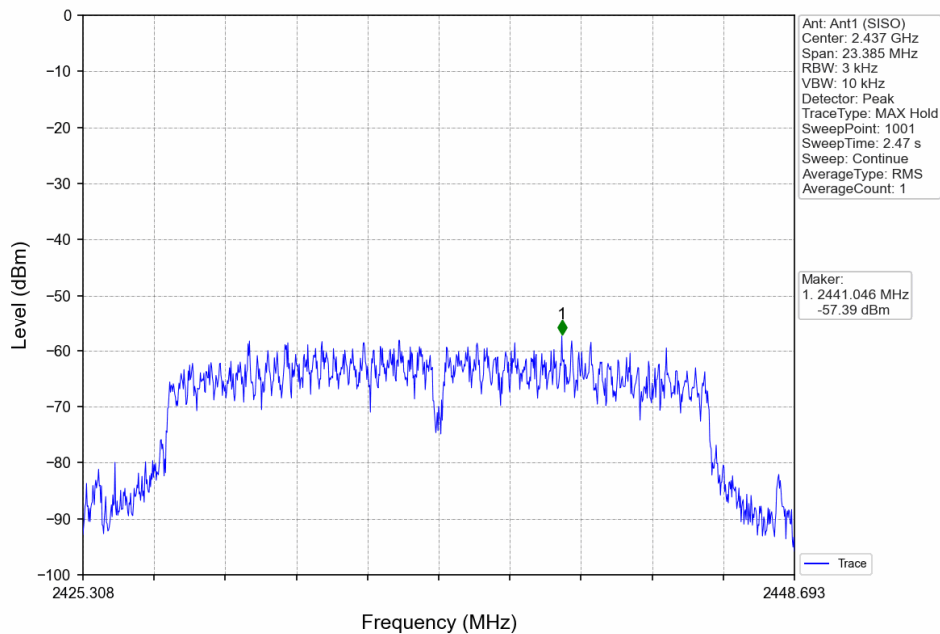


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

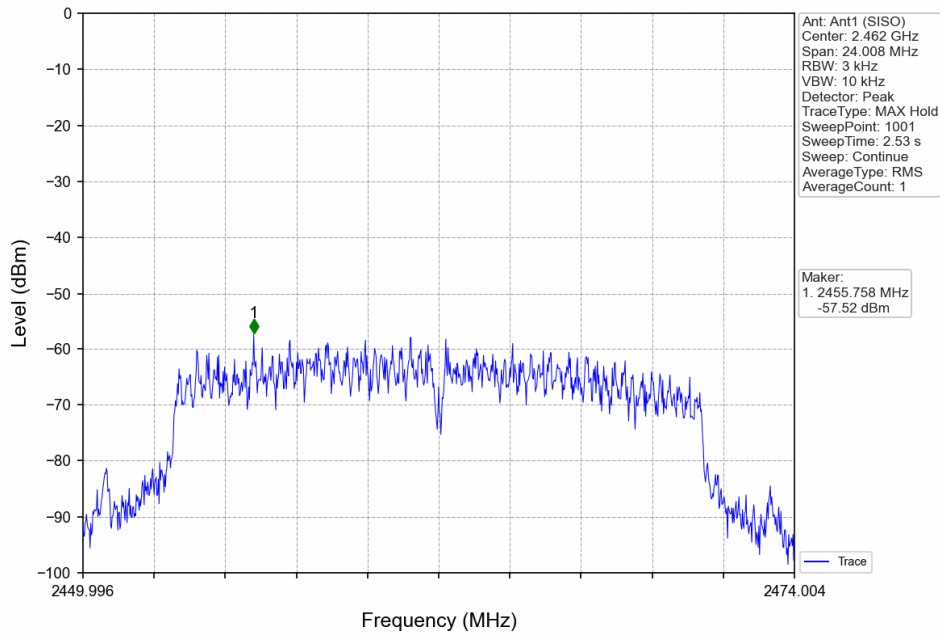


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

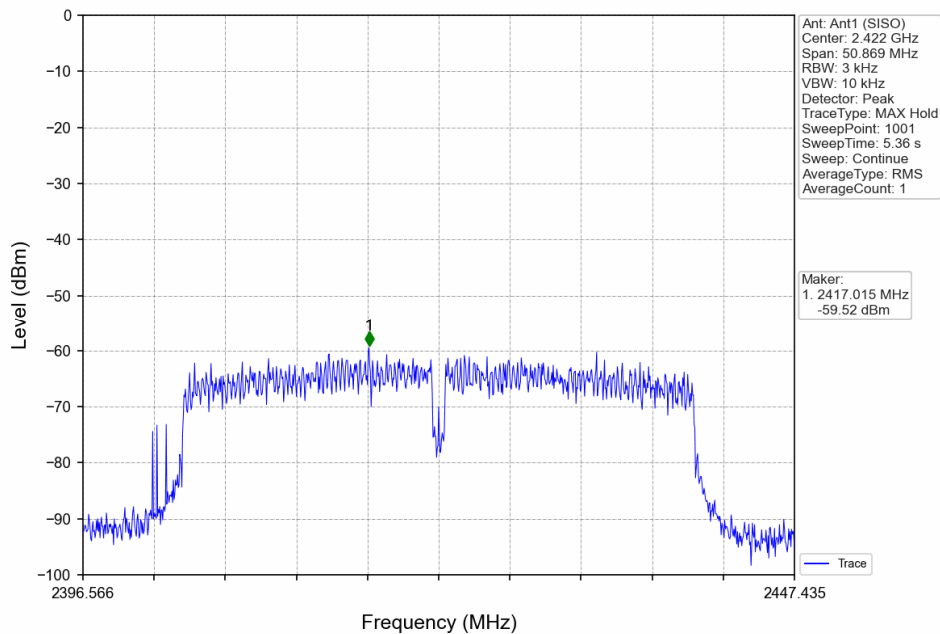


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

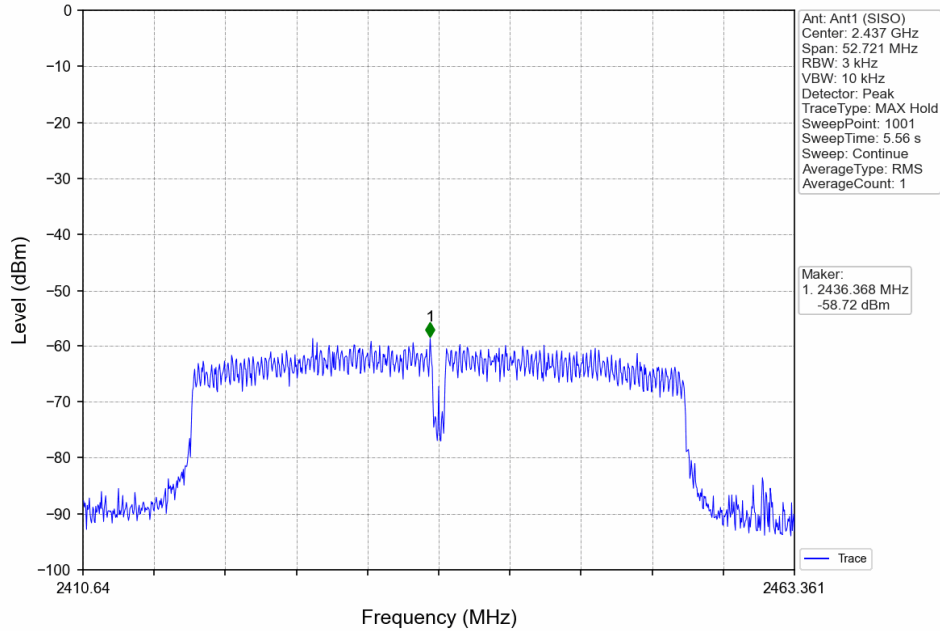


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

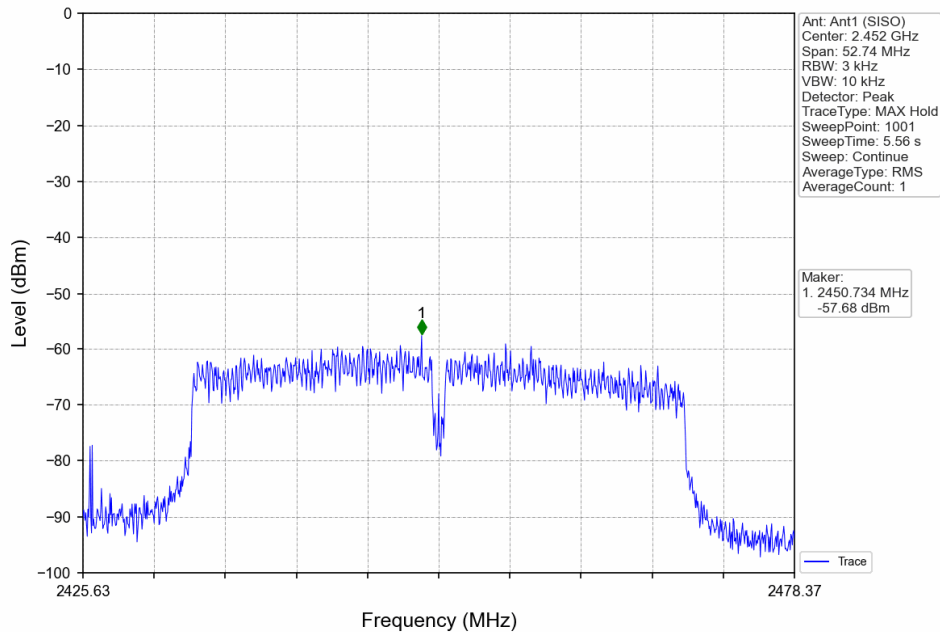


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

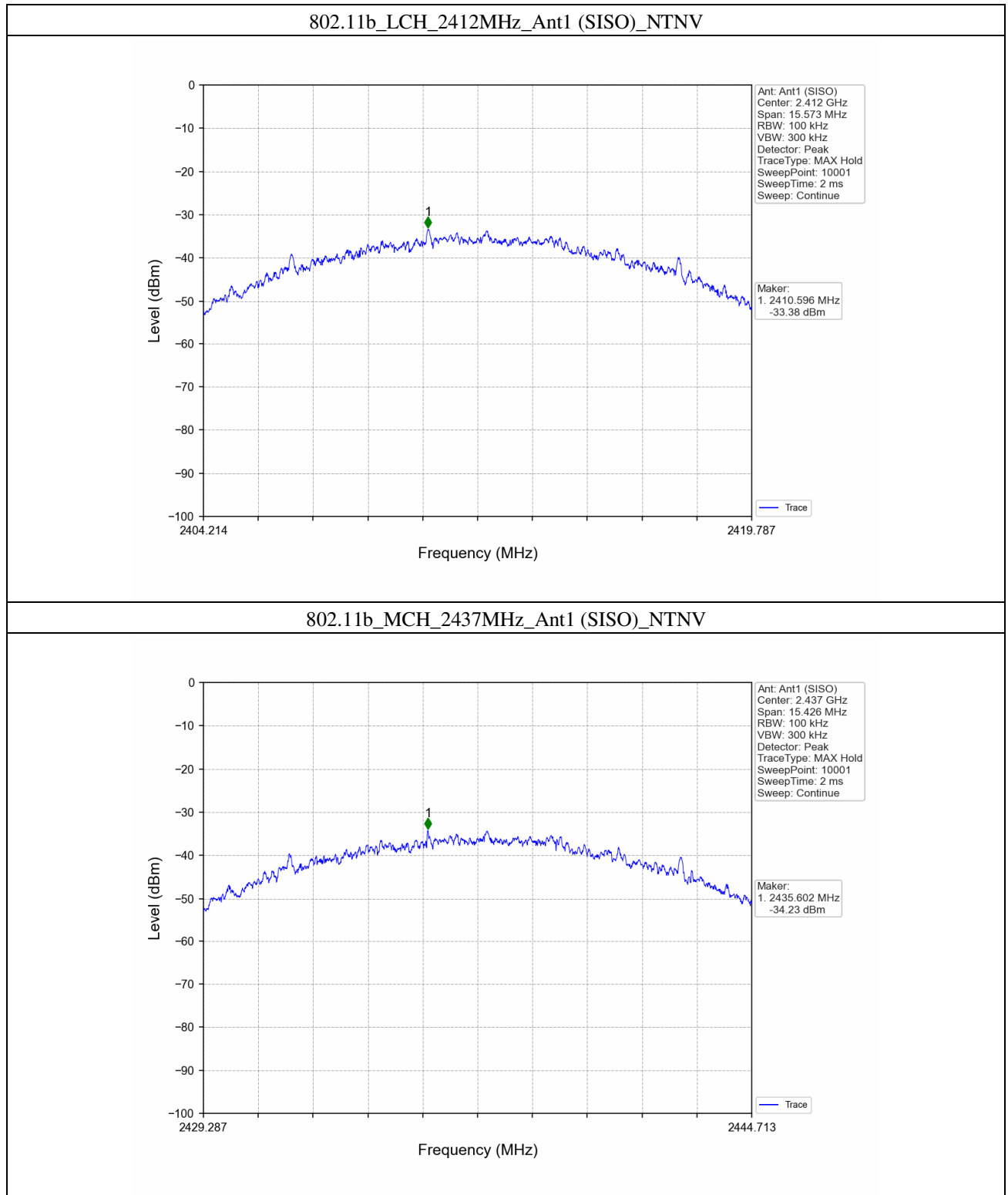
Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	-33.38
		2437	1	-34.23
		2462	1	-34.79
802.11g	SISO	2412	1	-41.76
		2437	1	-41.36
		2462	1	-43.04
802.11n (HT20)	SISO	2412	1	-41.57
		2437	1	-41.49
		2462	1	-42.53
802.11n (HT40)	SISO	2422	1	-44.21
		2437	1	-44.88
		2452	1	-43.71

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.



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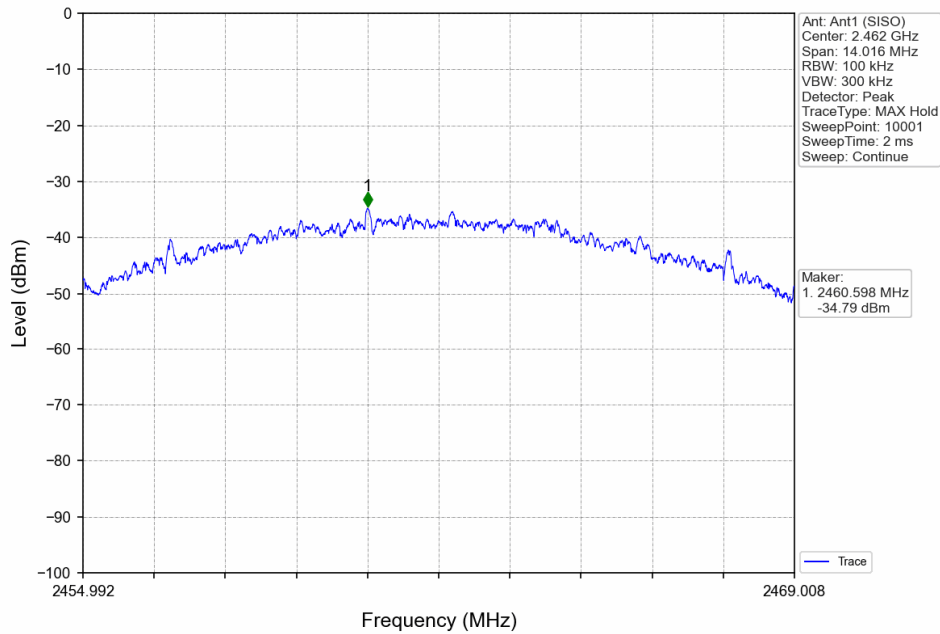
5.1.2 Test Graph



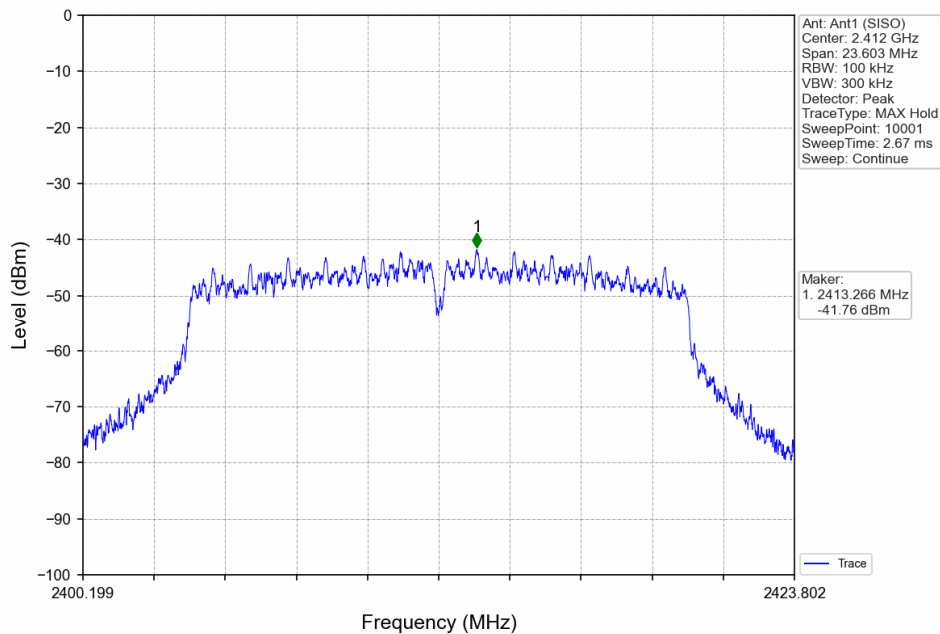
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

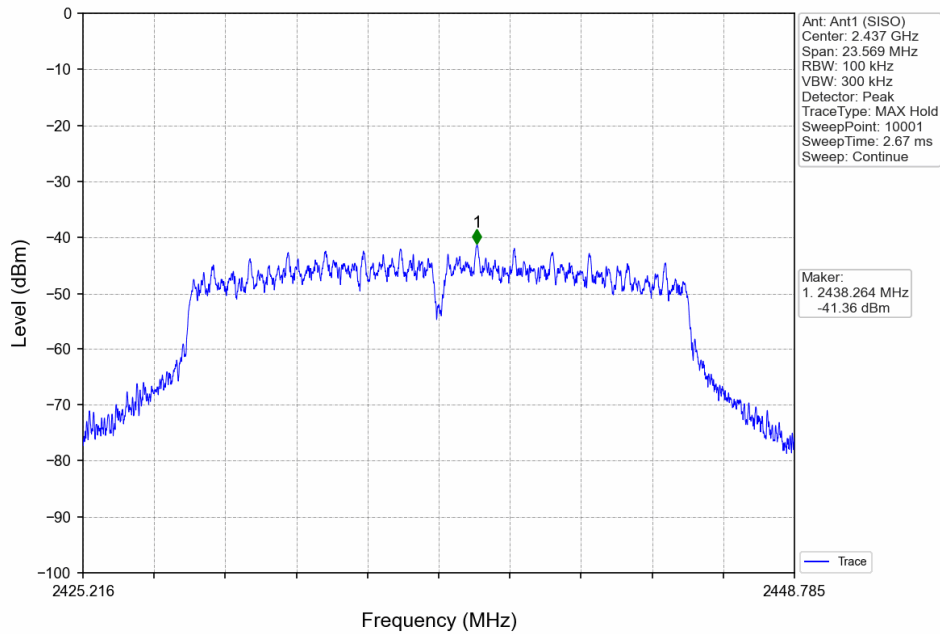


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

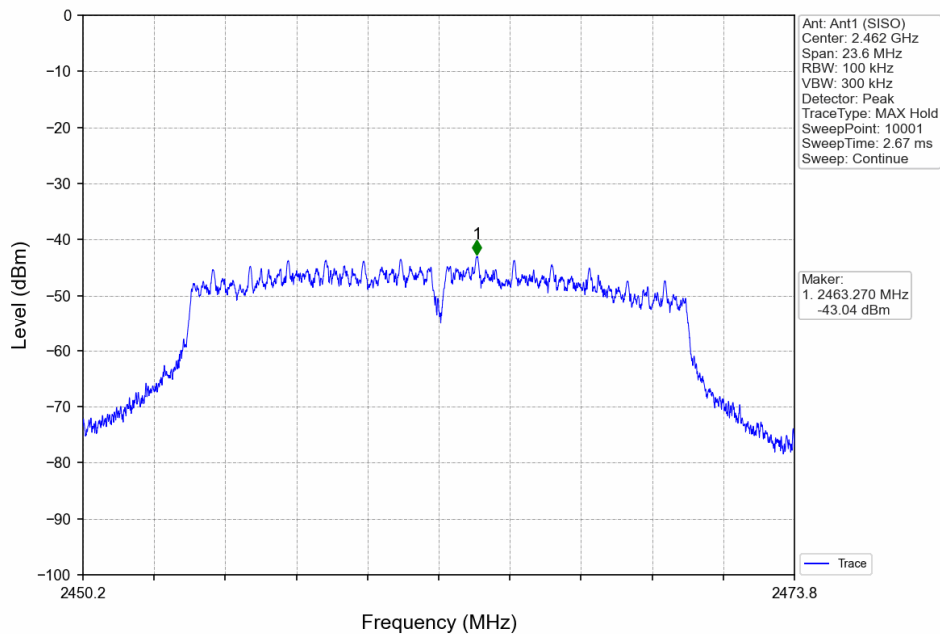


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

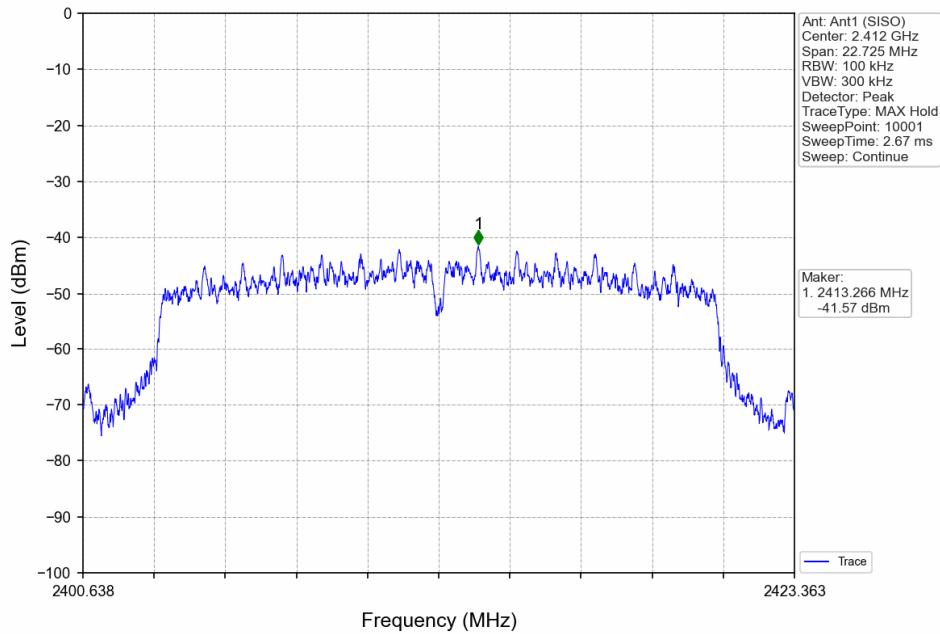


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

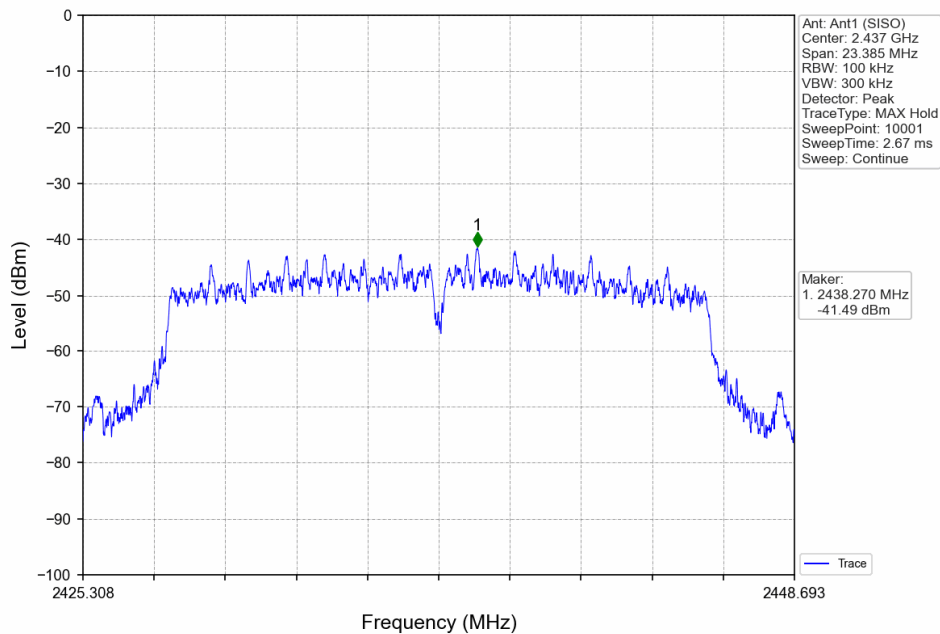


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

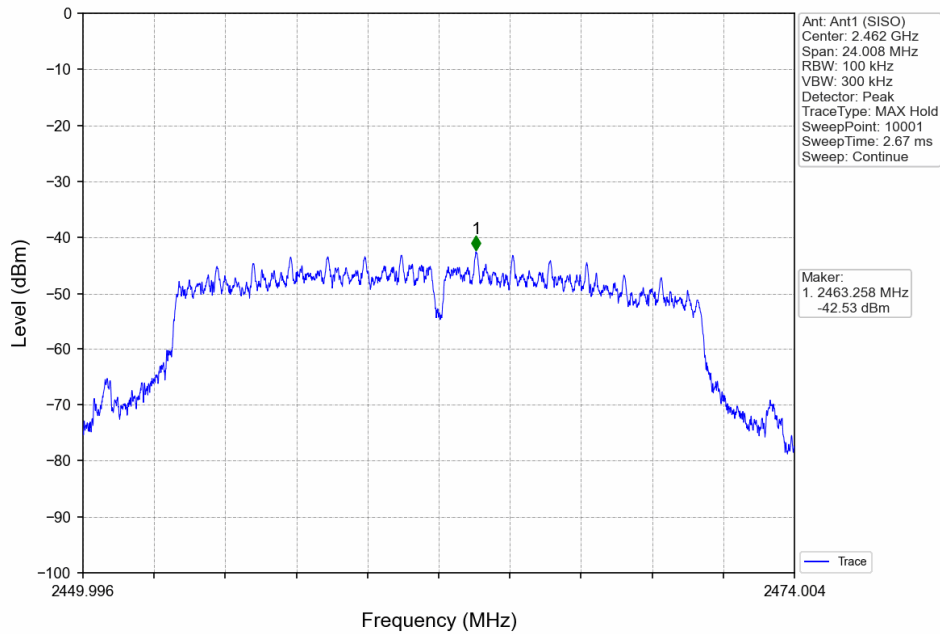


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

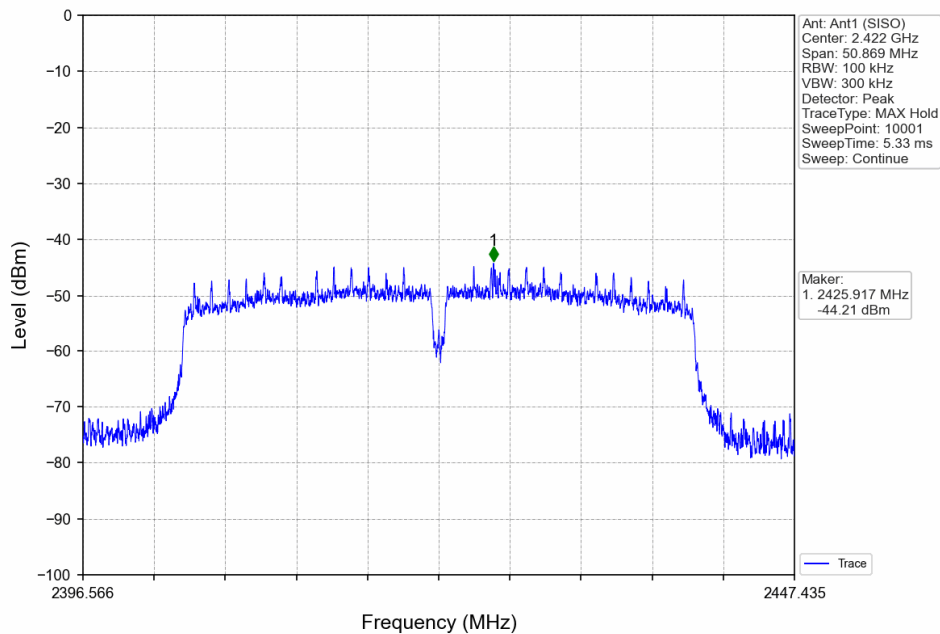


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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

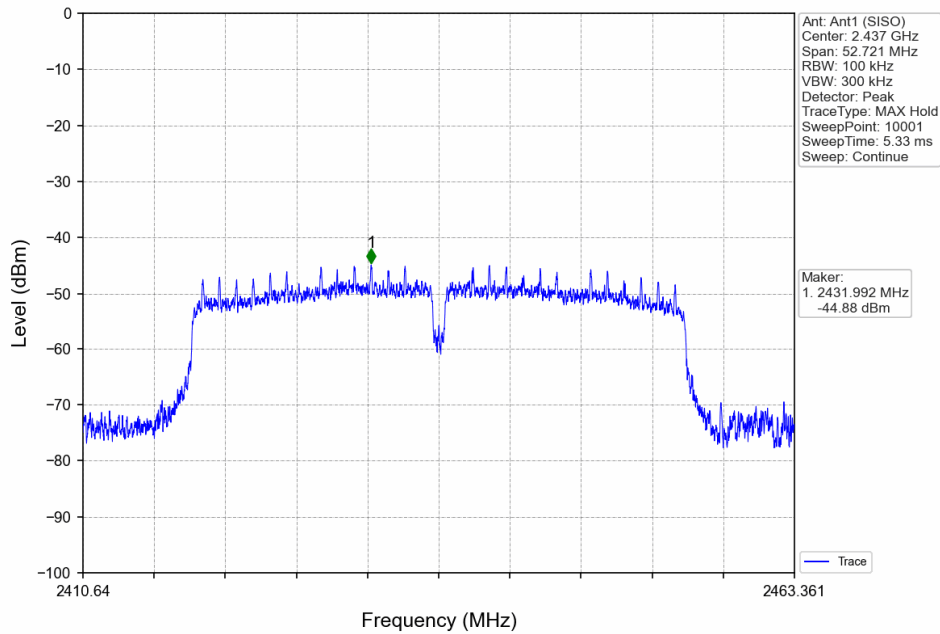


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

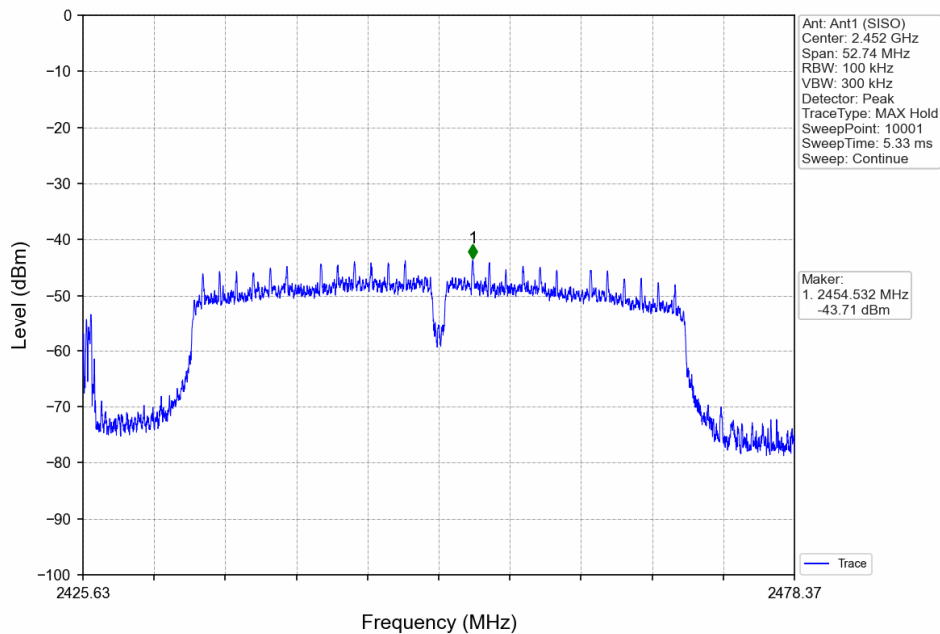


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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	-33.38	-53.38	Pass
		2437	1	-33.38	-53.38	Pass
		2462	1	-33.38	-53.38	Pass
802.11g	SISO	2412	1	-41.36	-61.36	Pass
		2437	1	-41.36	-61.36	Pass
		2462	1	-41.36	-61.36	Pass
802.11n (HT20)	SISO	2412	1	-41.49	-61.49	Pass
		2437	1	-41.49	-61.49	Pass
		2462	1	-41.49	-61.49	Pass
802.11n (HT40)	SISO	2422	1	-43.71	-63.71	Pass
		2437	1	-43.71	-63.71	Pass
		2452	1	-43.71	-63.71	Pass

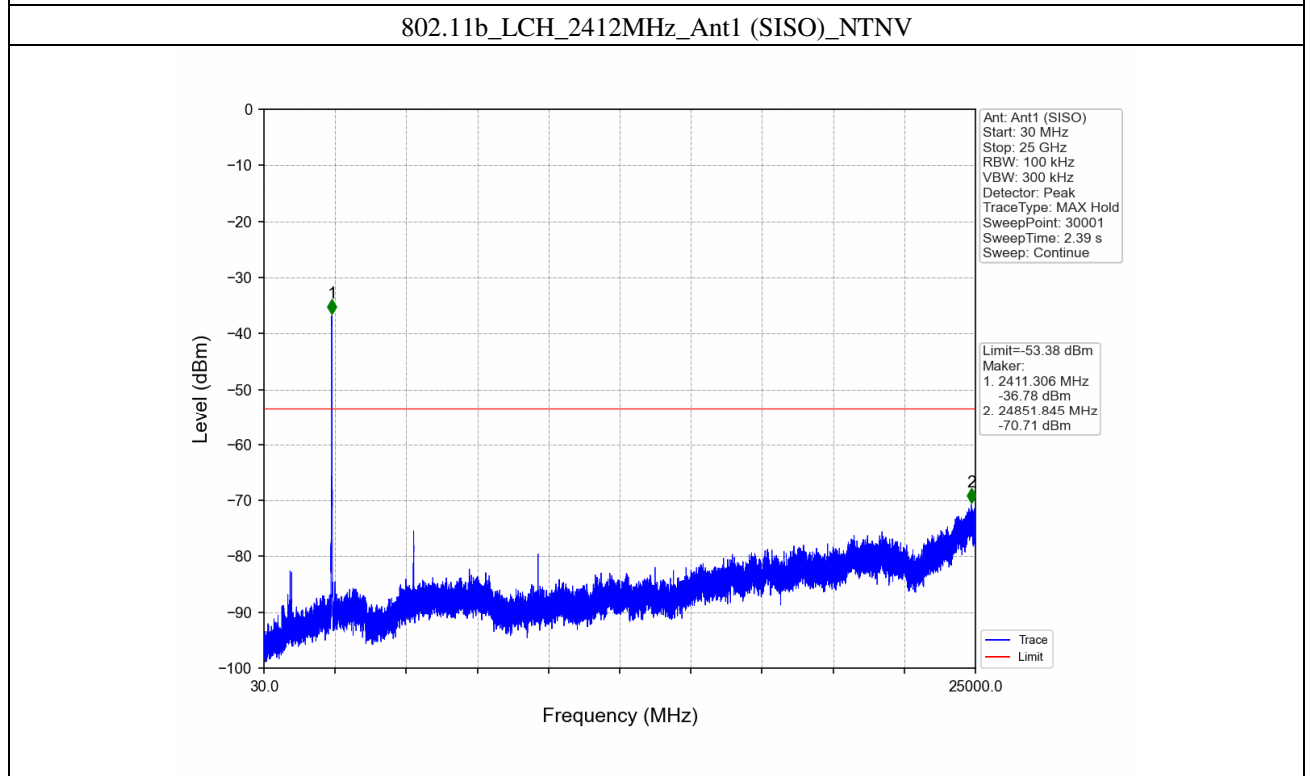
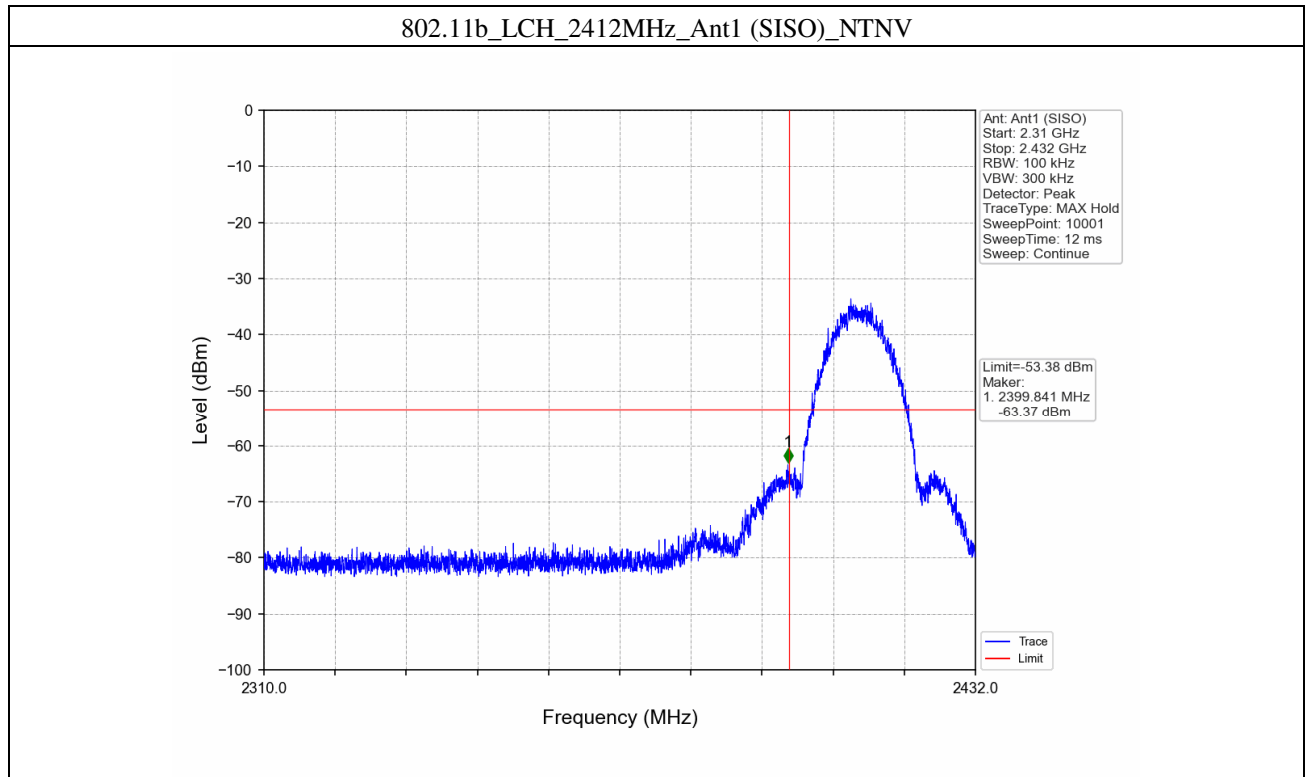
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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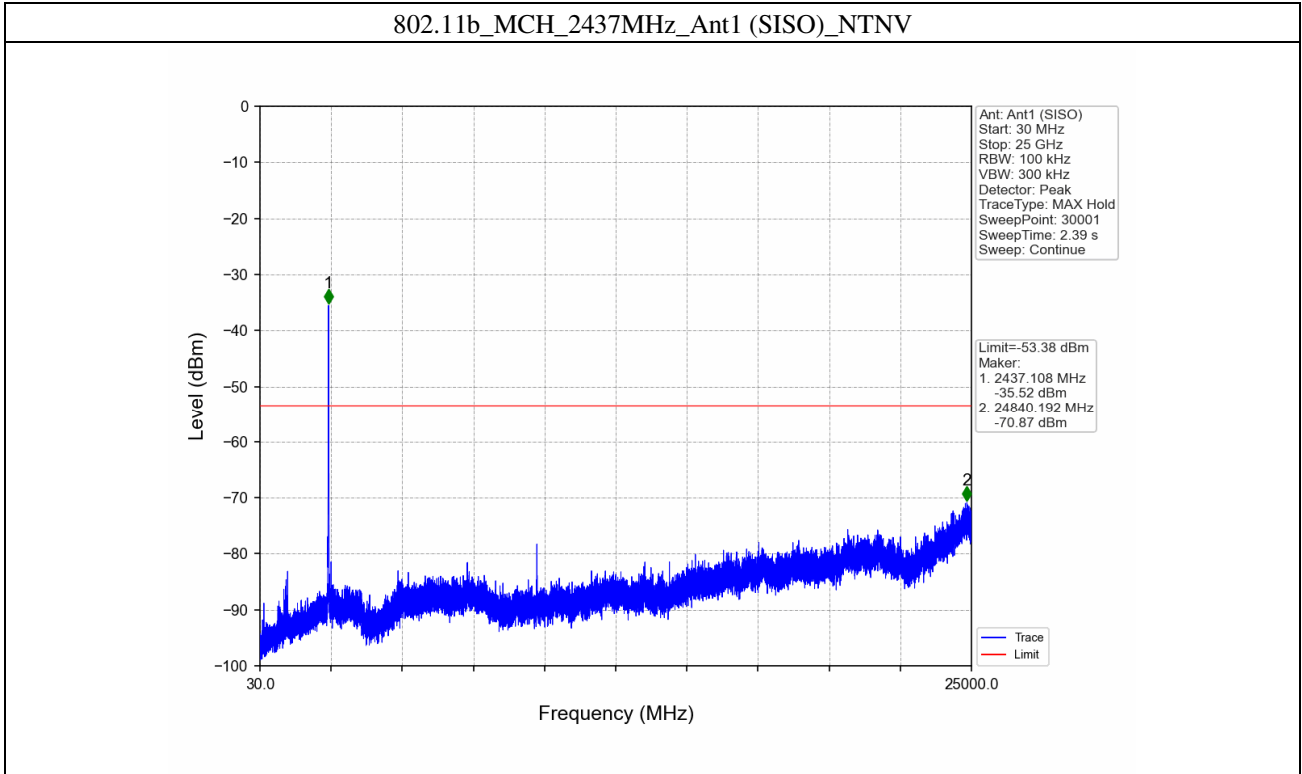
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 Guangzhou Branch Technical Services Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

5.2.2 Test Graph

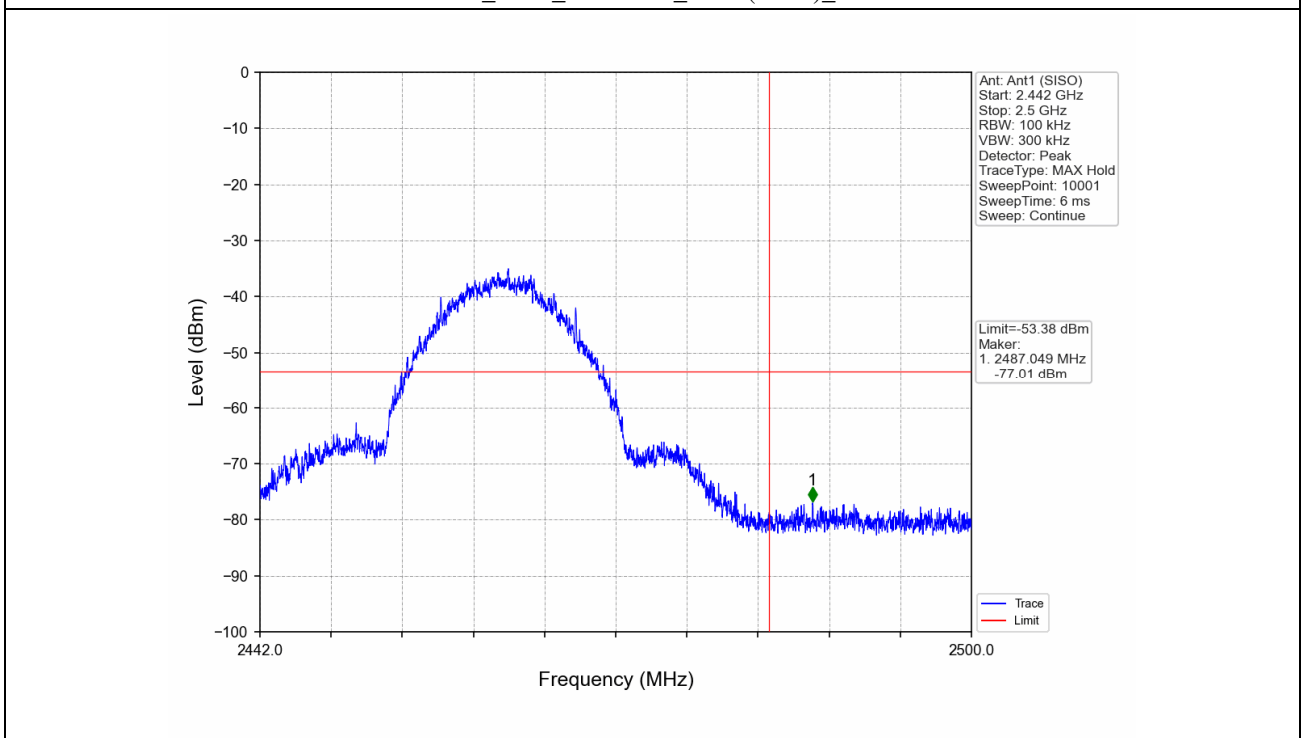


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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

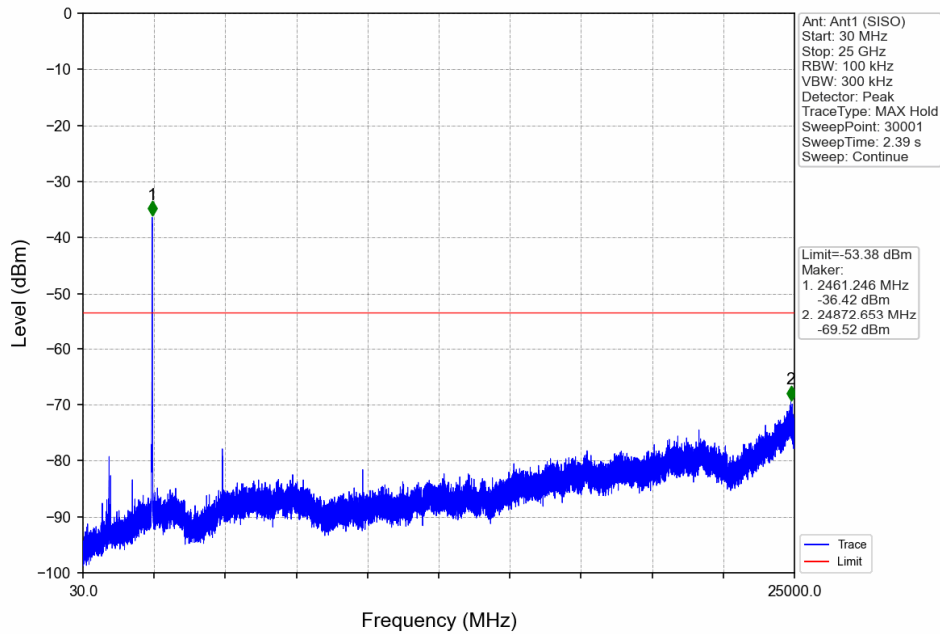


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

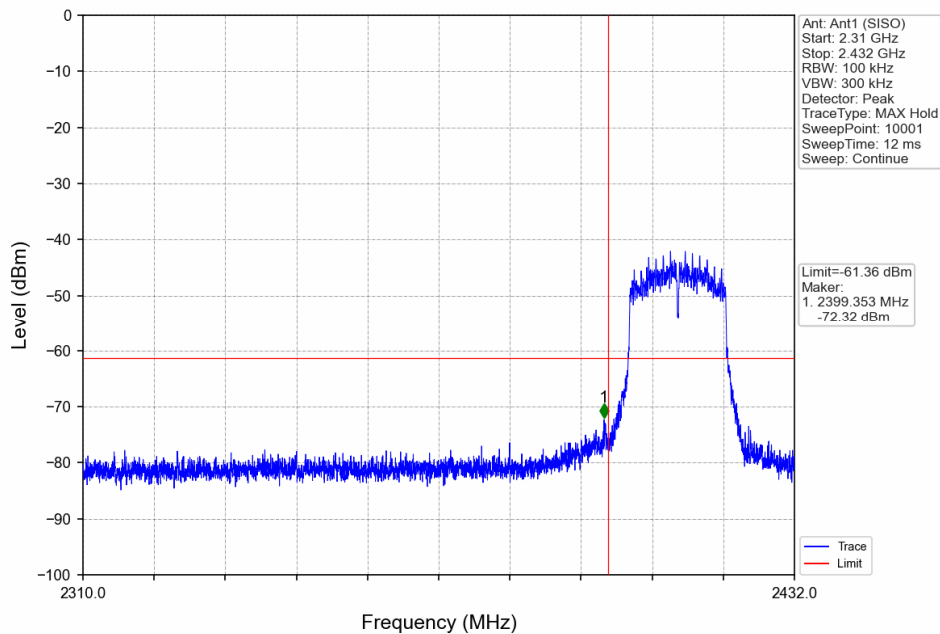


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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

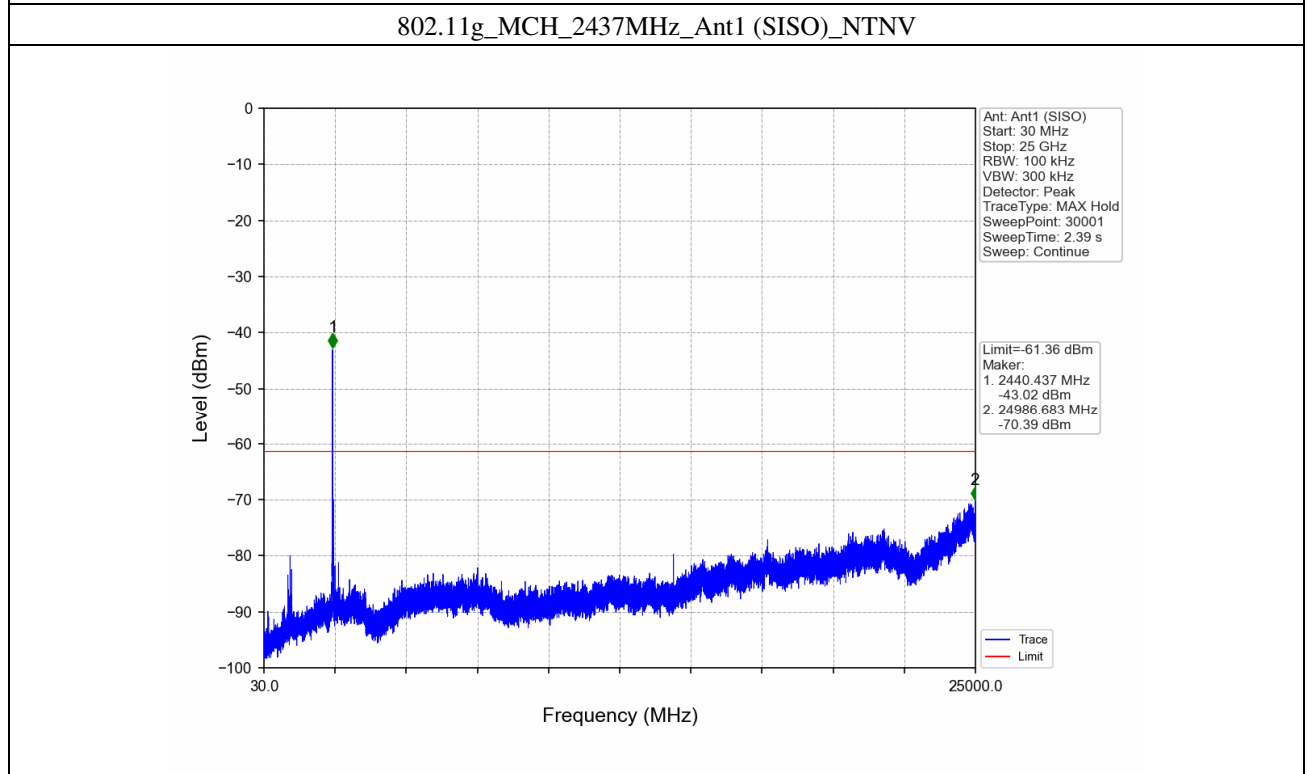
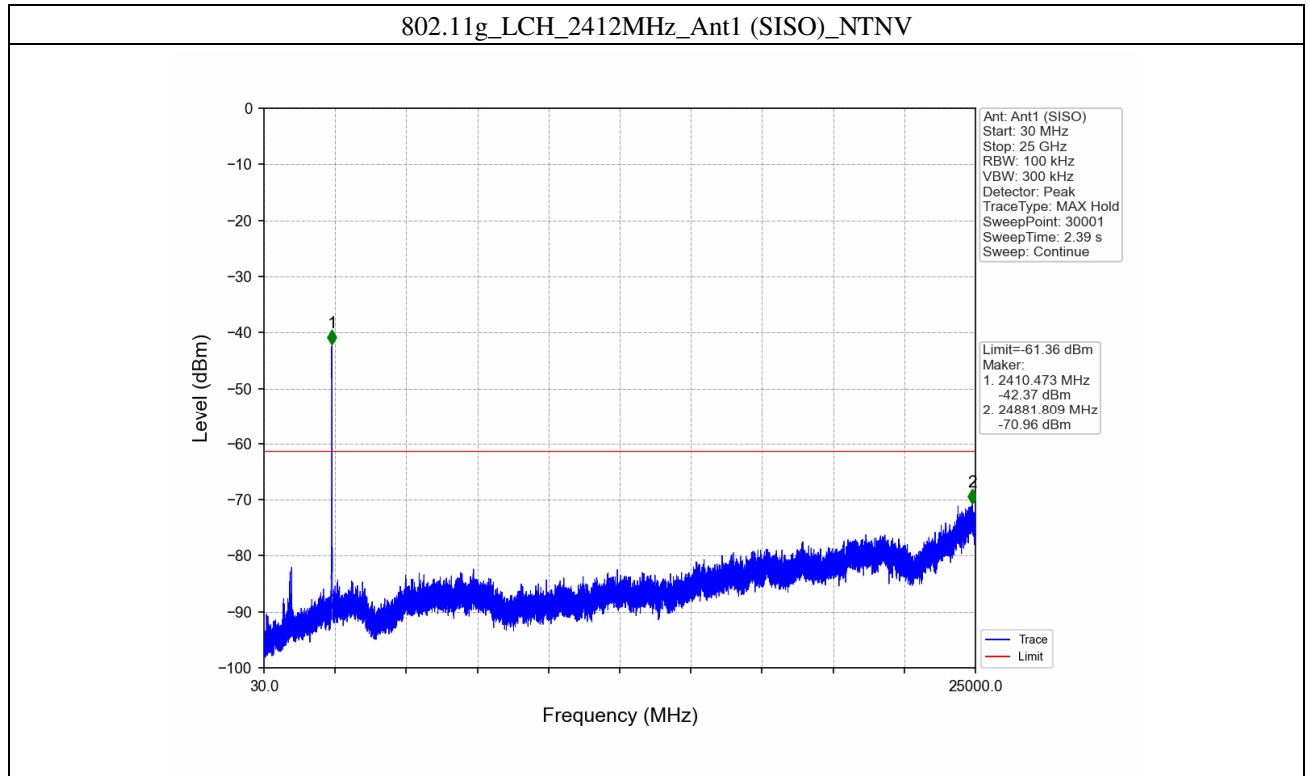


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



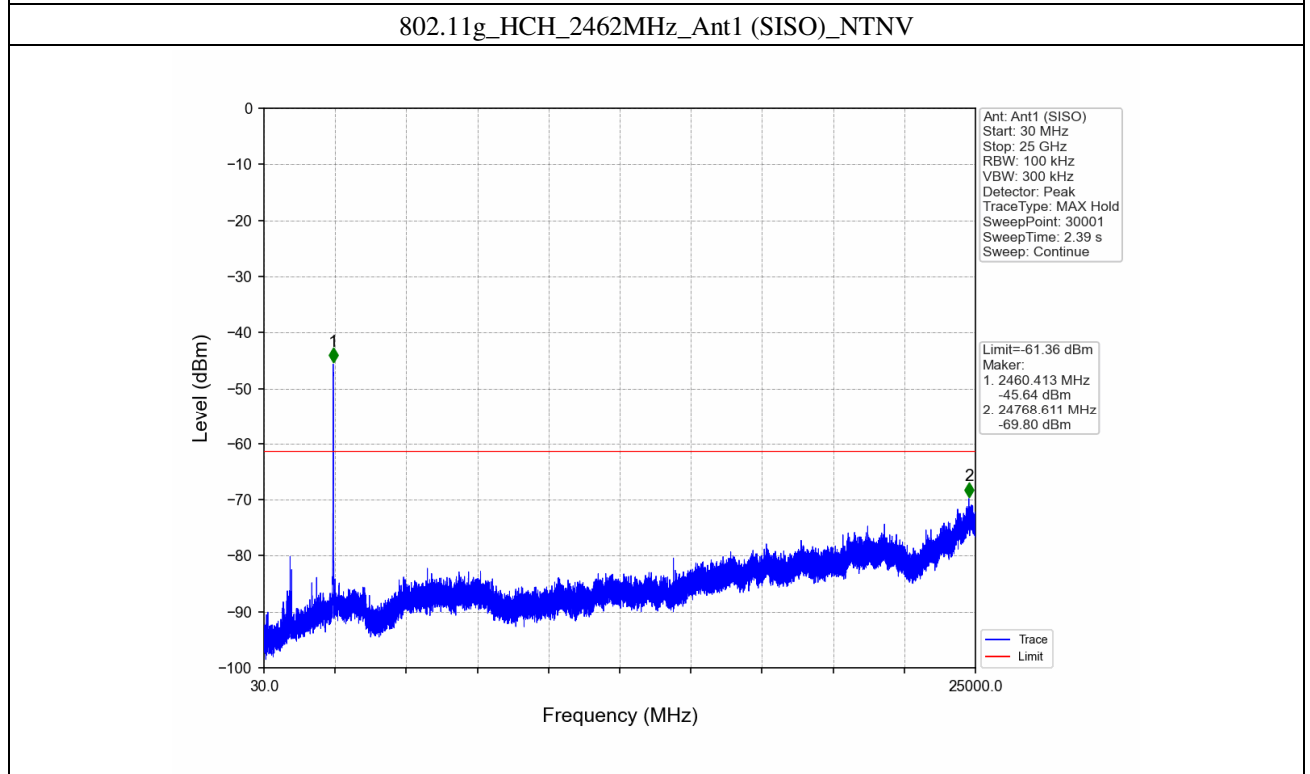
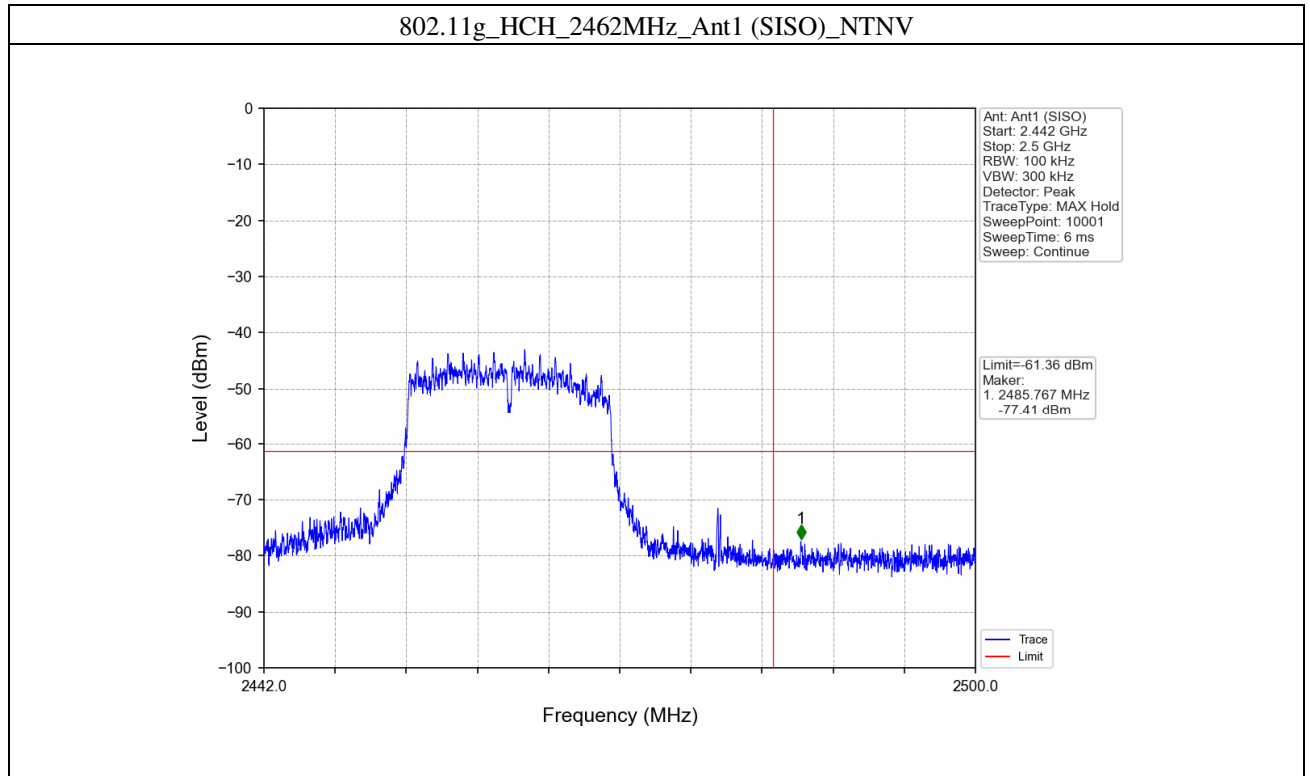
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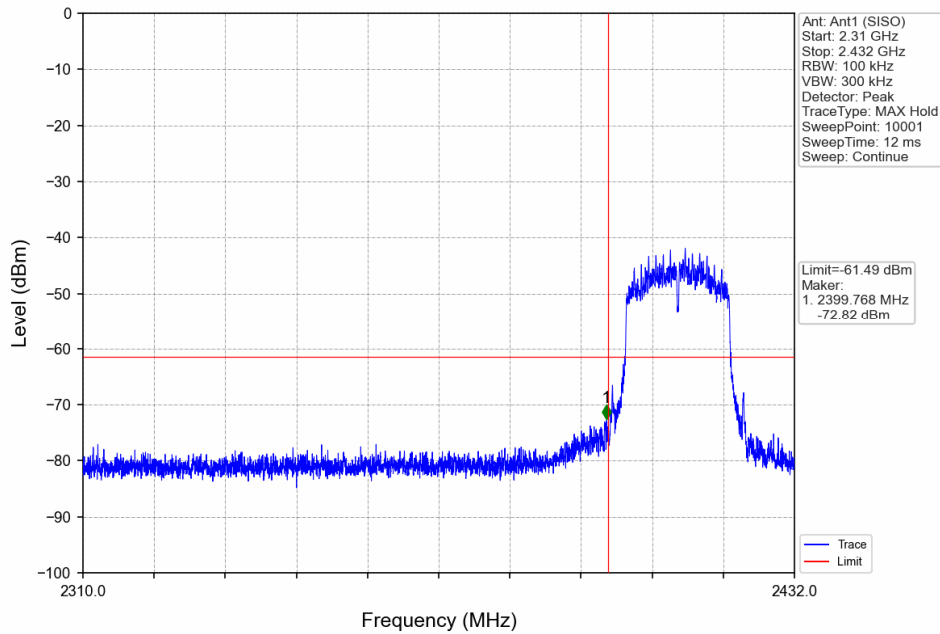
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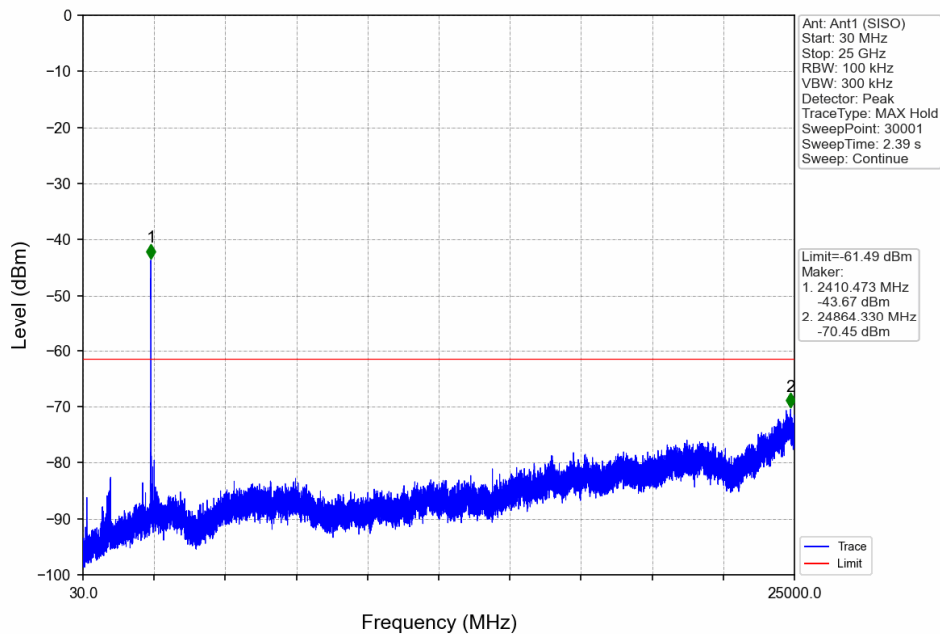


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



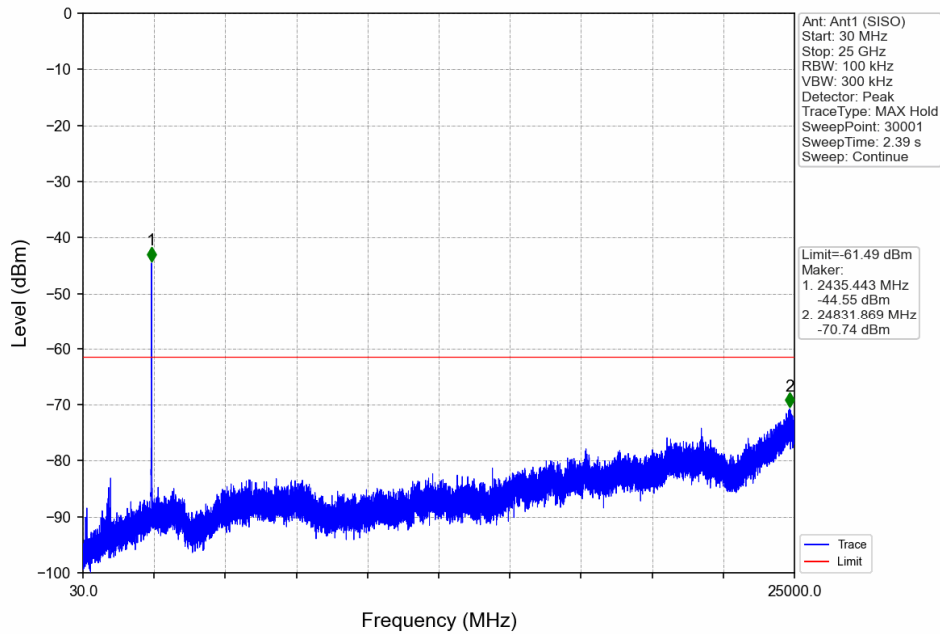
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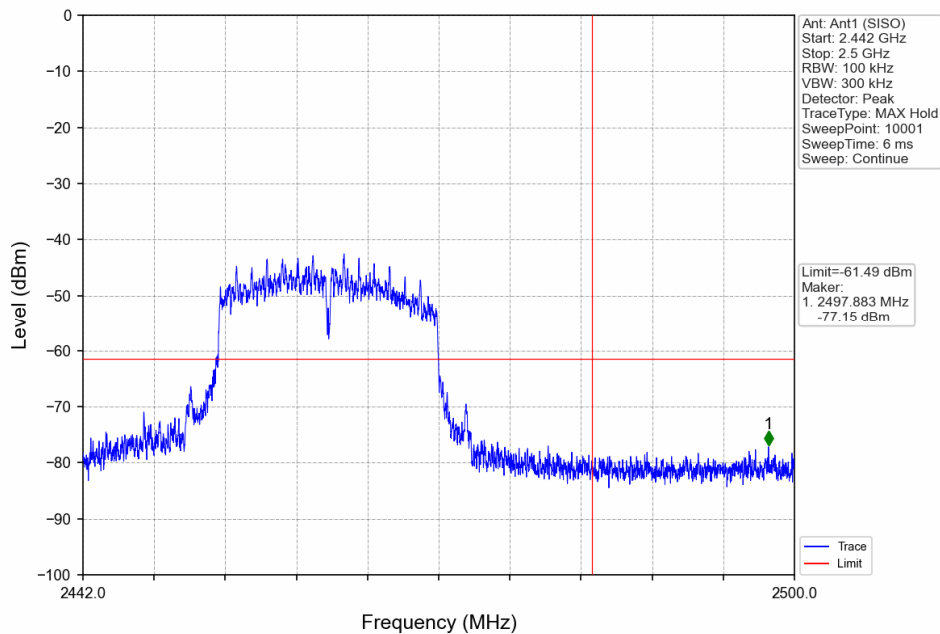
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



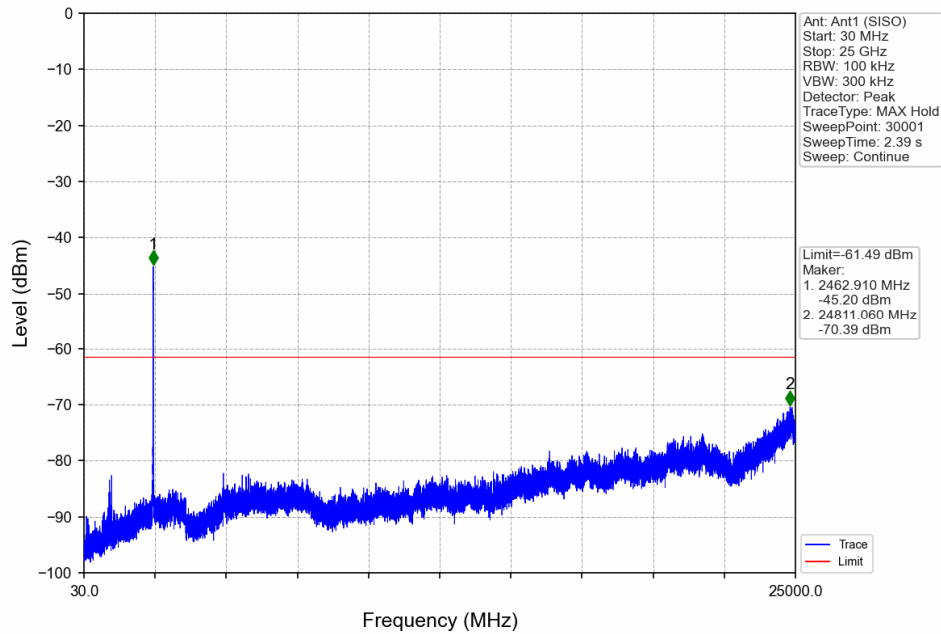
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



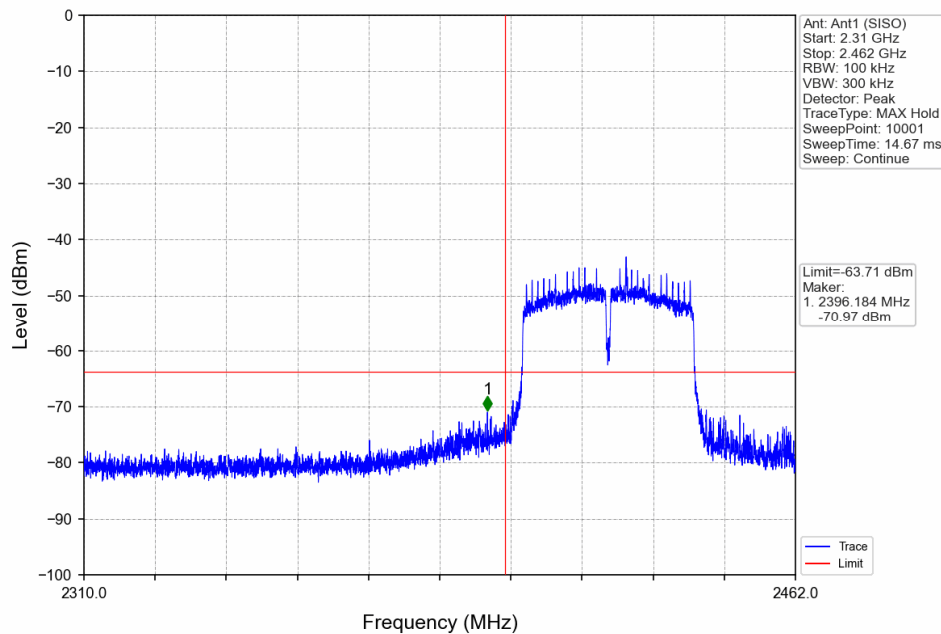
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

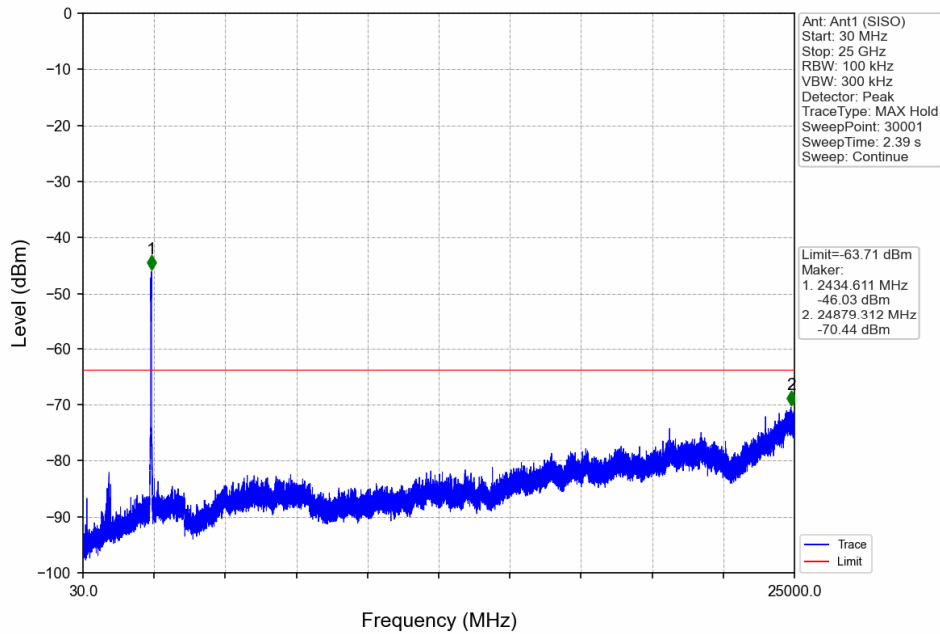


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

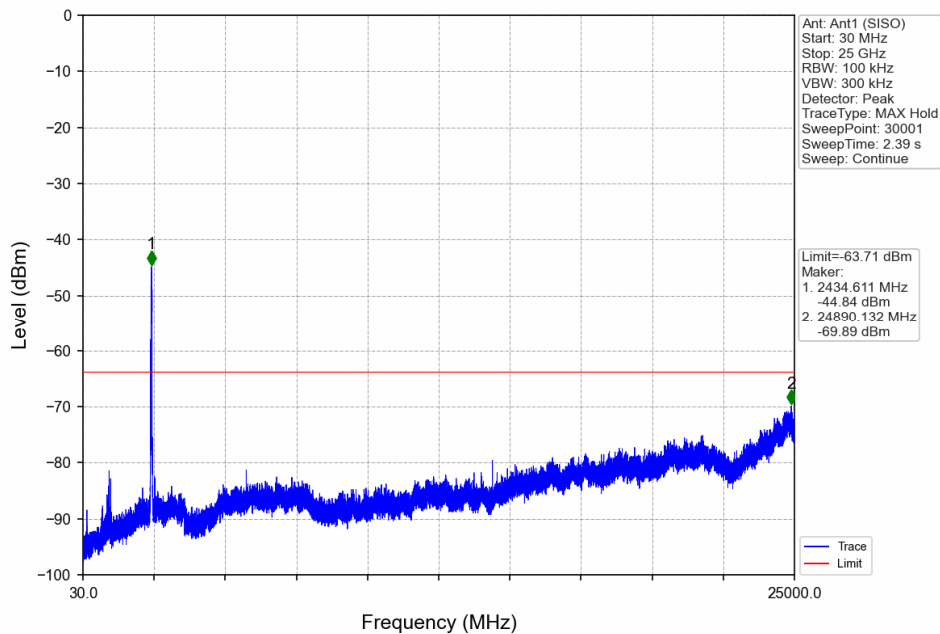


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



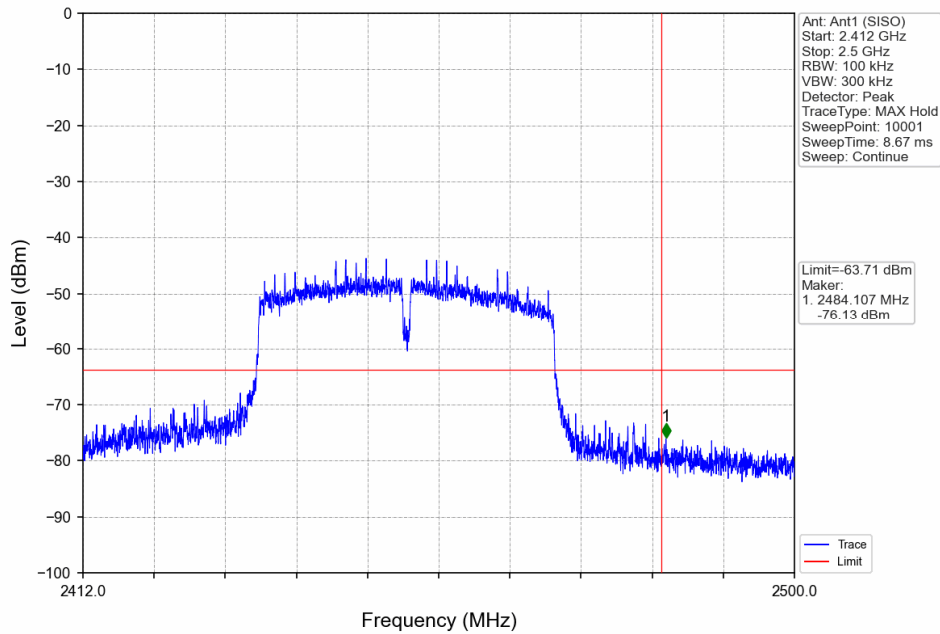
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



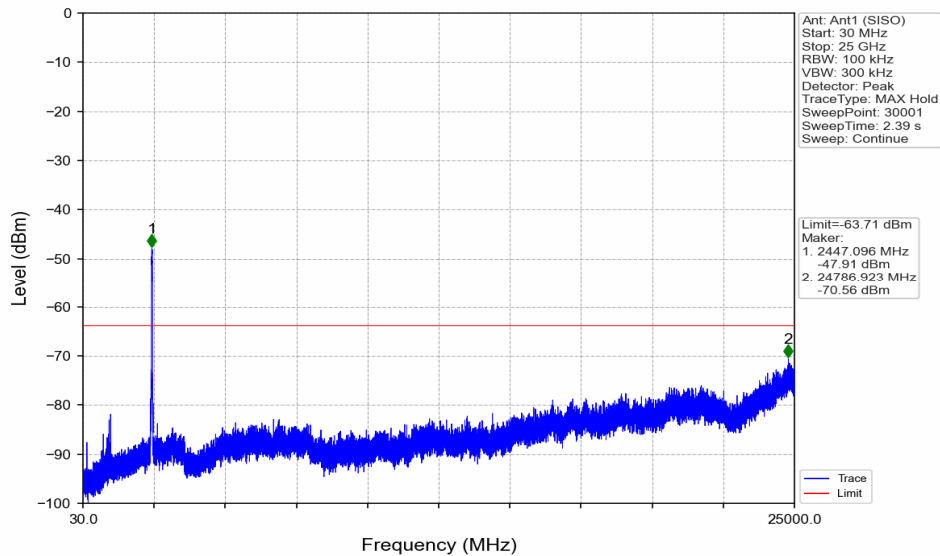
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -



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