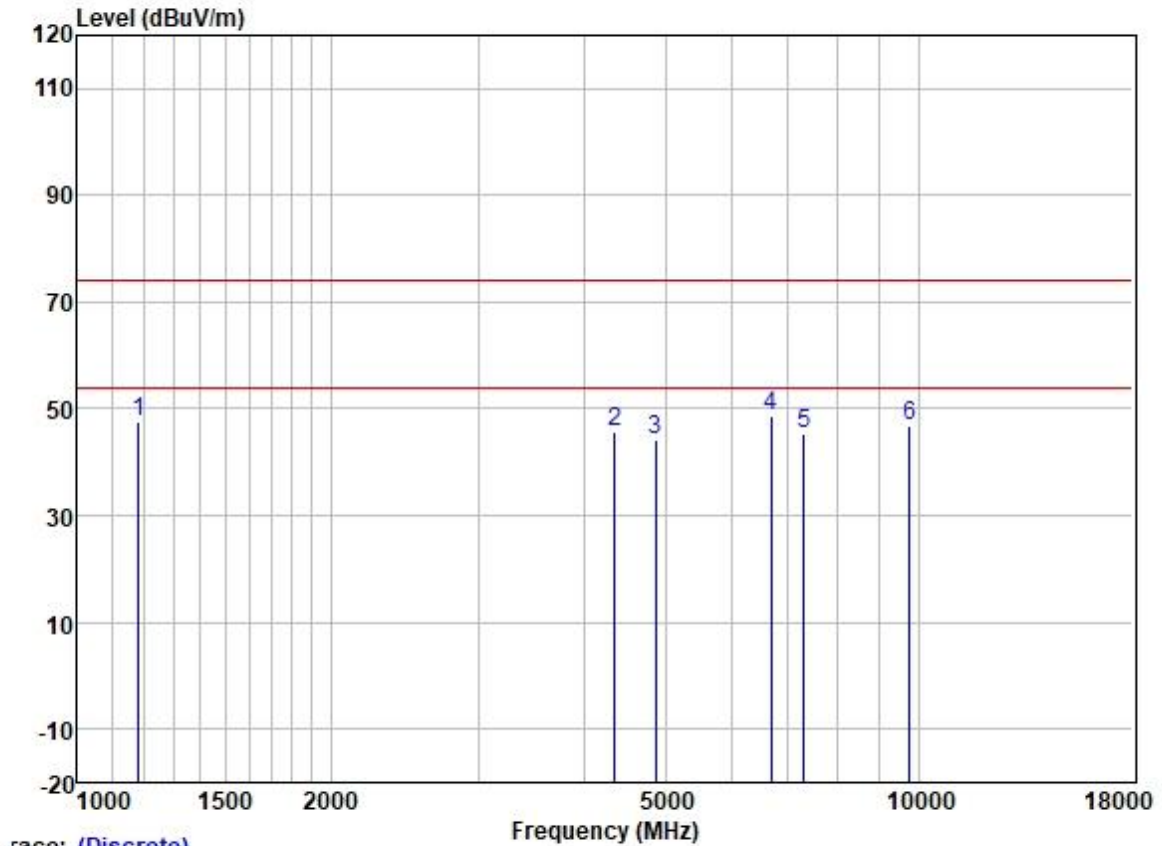
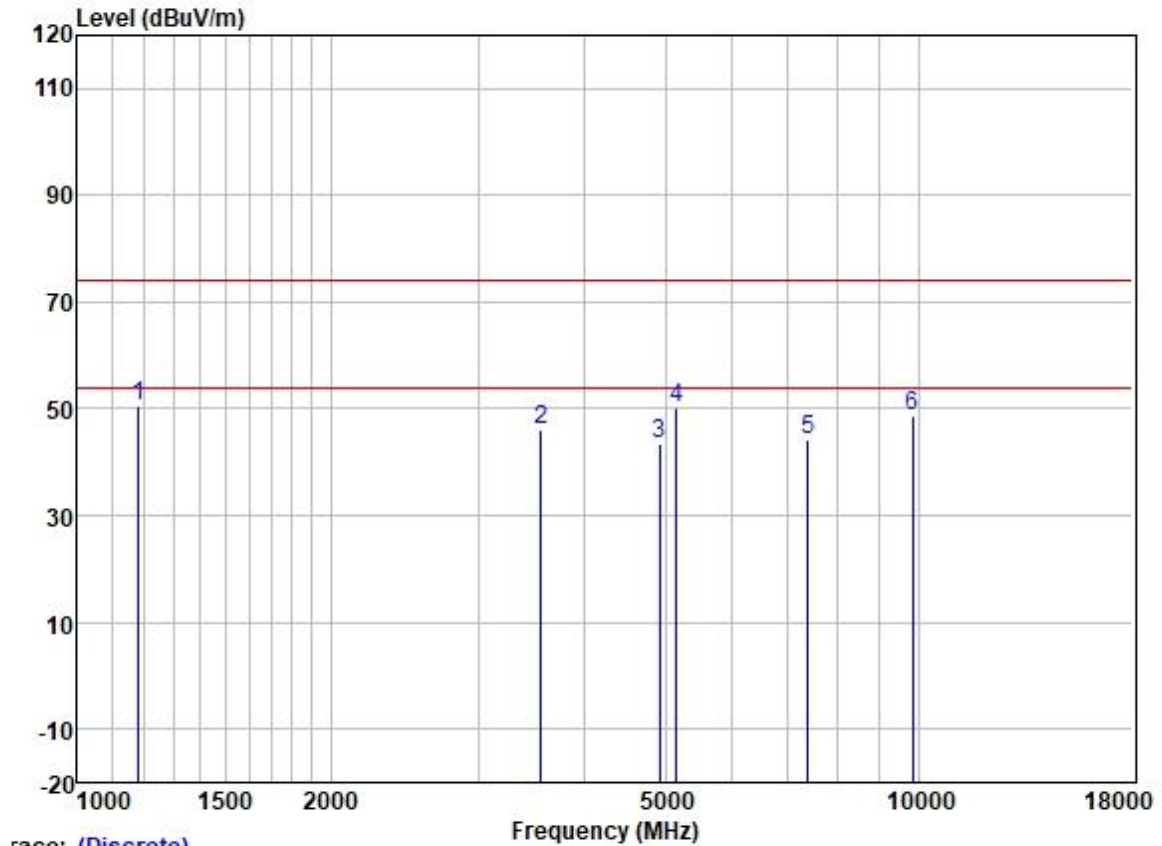


Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	58.65	24.60	2.37	38.17	47.45	74.00	-26.55	HORIZONTAL	peak
2	4354.454	47.07	30.59	4.68	36.64	45.70	74.00	-28.30	HORIZONTAL	peak
3	4874.000	43.49	31.54	5.50	36.48	44.05	74.00	-29.95	HORIZONTAL	peak
4	6679.040	44.97	34.33	5.83	36.39	48.74	74.00	-25.26	HORIZONTAL	peak
5	7311.000	40.12	35.93	6.11	36.99	45.17	74.00	-28.83	HORIZONTAL	peak
6	9748.000	38.27	38.50	7.02	36.83	46.96	74.00	-27.04	HORIZONTAL	peak

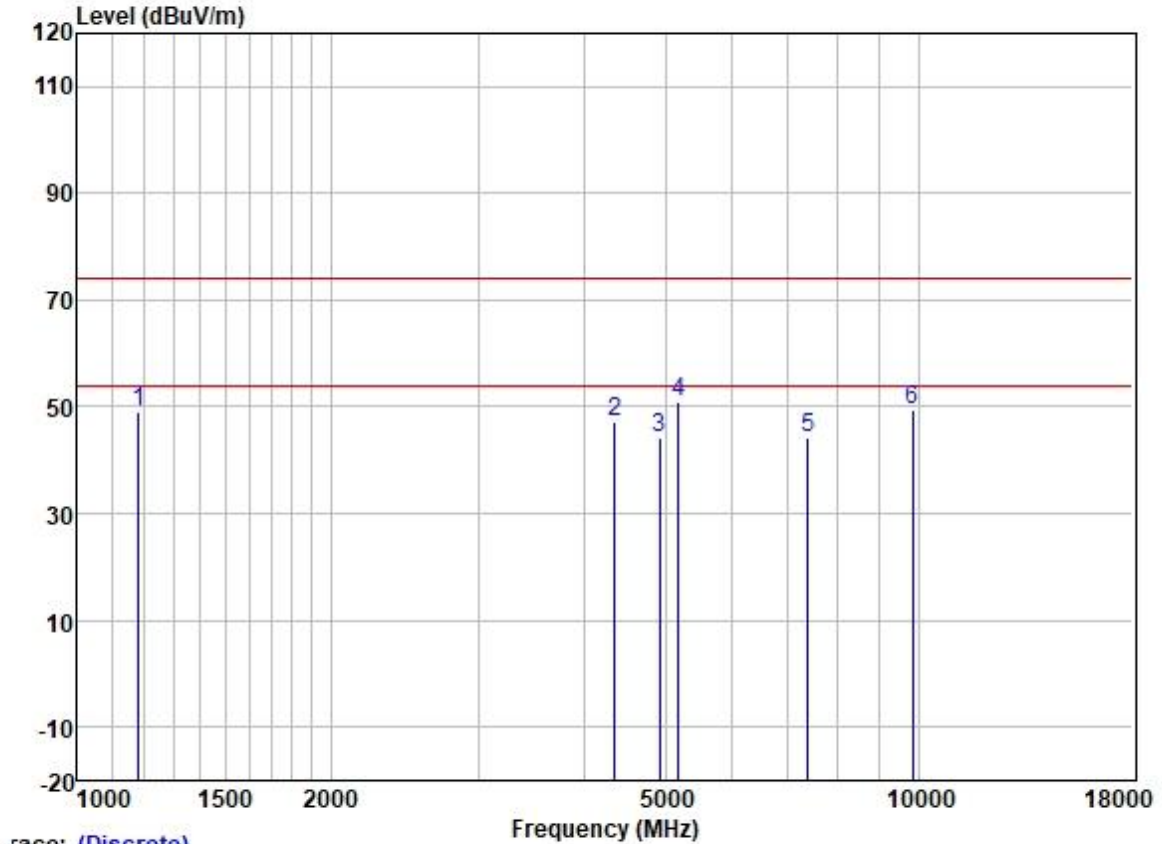
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1182.513	61.65	24.60	2.37	38.17	50.45	74.00	-23.55	VERTICAL peak
2	3556.843	49.41	28.98	4.44	36.77	46.06	74.00	-27.94	VERTICAL peak
3	4924.000	42.82	31.62	5.60	36.45	43.59	74.00	-30.41	VERTICAL peak
4	5149.197	49.31	31.72	5.62	36.31	50.34	74.00	-23.66	VERTICAL peak
5	7386.000	38.76	36.17	6.19	37.04	44.08	74.00	-29.92	VERTICAL peak
6	9848.000	39.95	38.58	6.99	36.82	48.70	74.00	-25.30	VERTICAL peak

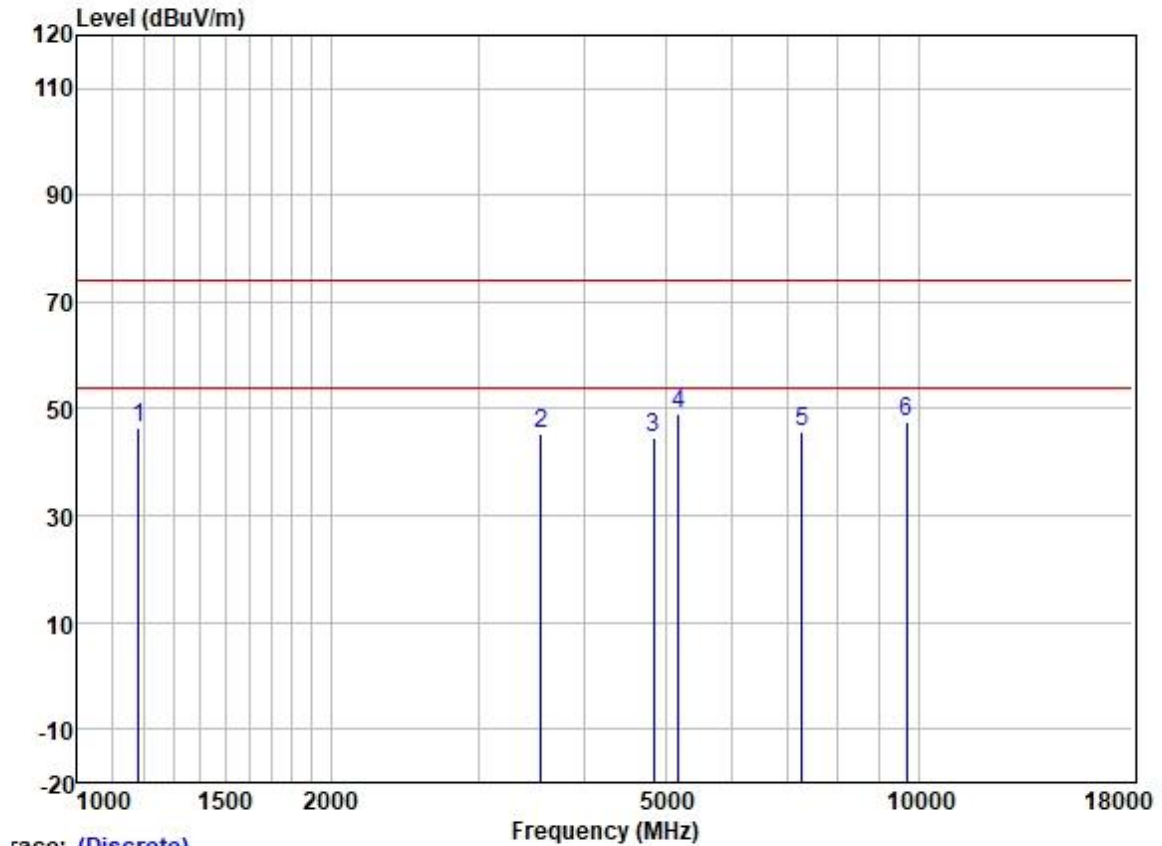
Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	60.40	24.60	2.37	38.17	49.20	74.00	-24.80	HORIZONTAL	peak
2	4354.454	48.76	30.59	4.68	36.64	47.39	74.00	-26.61	HORIZONTAL	peak
3	4924.000	43.29	31.62	5.60	36.45	44.06	74.00	-29.94	HORIZONTAL	peak
4	5179.049	49.82	31.73	5.61	36.30	50.86	74.00	-23.14	HORIZONTAL	peak
5	7386.000	38.89	36.17	6.19	37.04	44.21	74.00	-29.79	HORIZONTAL	peak
6	9848.000	40.53	38.58	6.99	36.82	49.28	74.00	-24.72	HORIZONTAL	peak

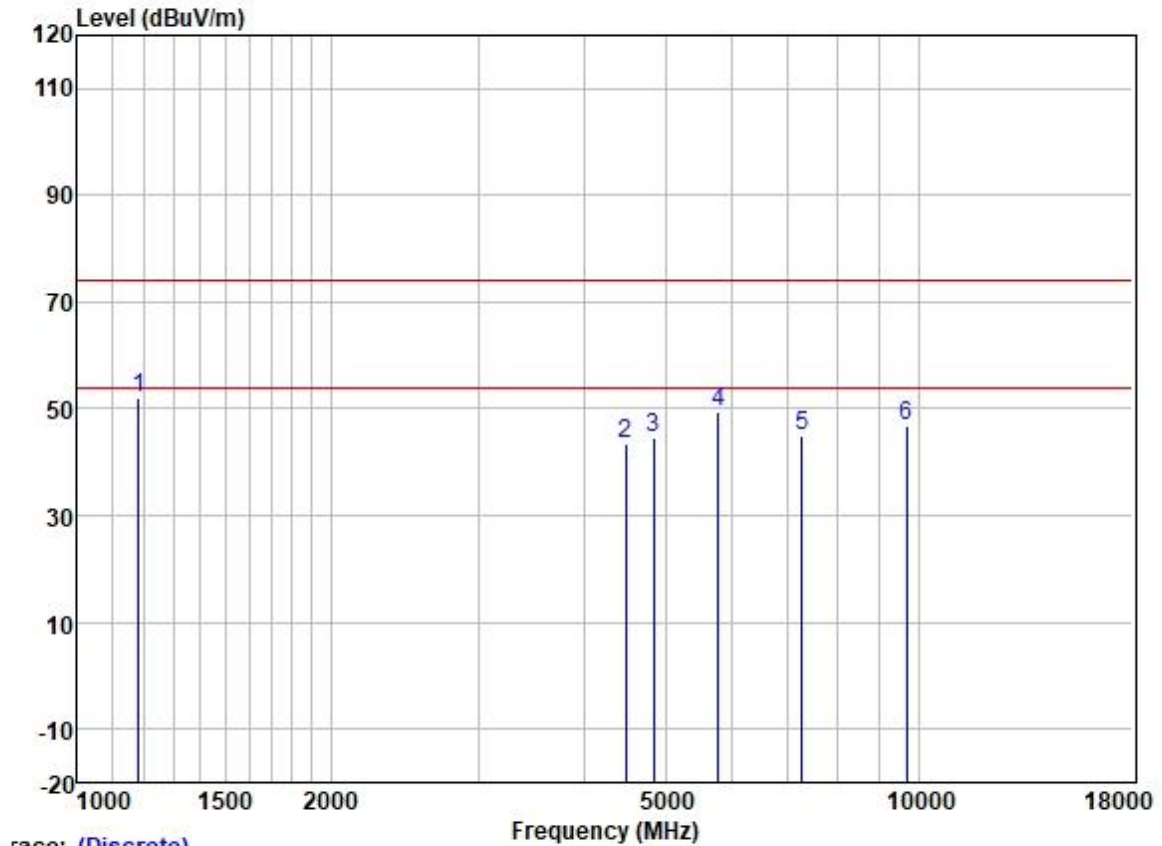
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

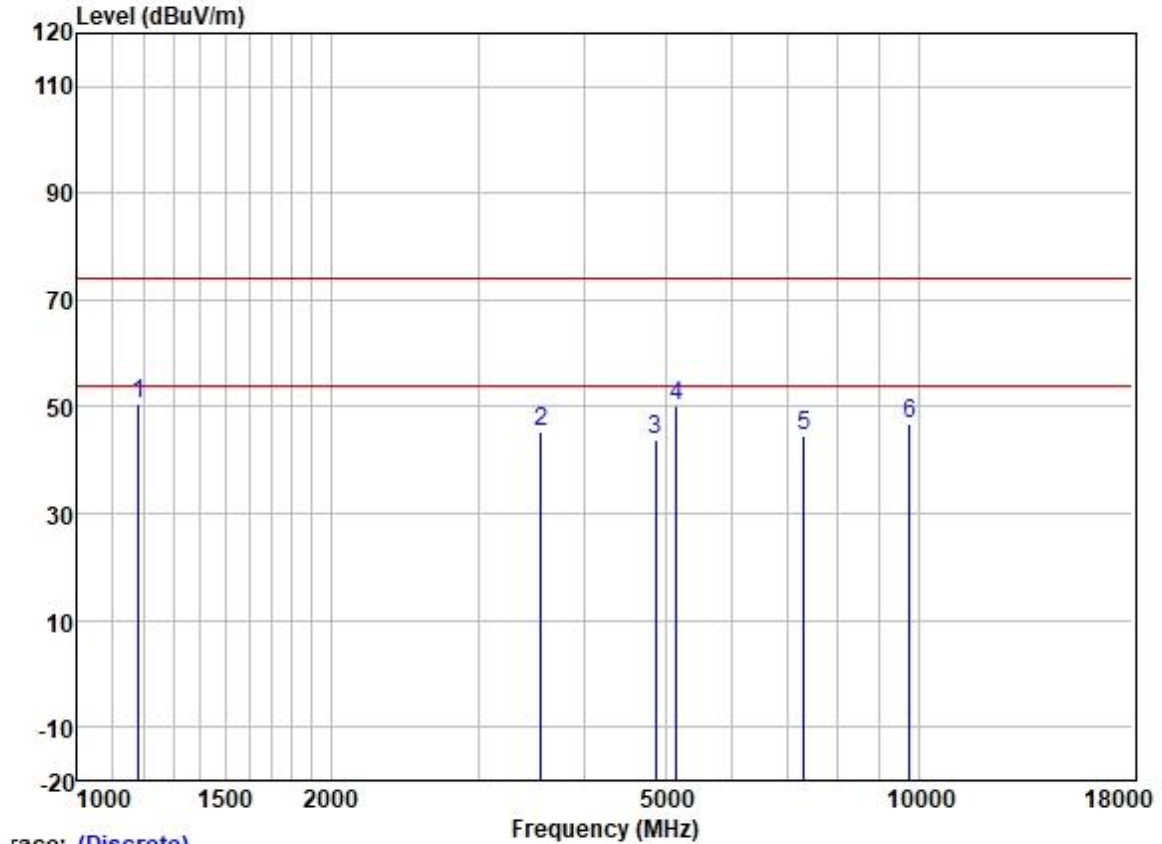
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	57.75	24.60	2.37	38.17	46.55	74.00	-27.45	VERTICAL	peak
2	3556.843	48.51	28.98	4.44	36.77	45.16	74.00	-28.84	VERTICAL	peak
3	4844.000	44.19	31.50	5.45	36.49	44.65	74.00	-29.35	VERTICAL	peak
4	5179.049	48.17	31.73	5.61	36.30	49.21	74.00	-24.79	VERTICAL	peak
5	7266.000	40.69	35.78	6.06	36.98	45.55	74.00	-28.45	VERTICAL	peak
6	9688.000	38.83	38.44	7.04	36.84	47.47	74.00	-26.53	VERTICAL	peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	63.17	24.60	2.37	38.17	51.97	74.00	-22.03	HORIZONTAL	peak
2	4482.150	44.24	30.78	4.99	36.61	43.40	74.00	-30.60	HORIZONTAL	peak
3	4844.000	44.22	31.50	5.45	36.49	44.68	74.00	-29.32	HORIZONTAL	peak
4	5780.300	47.32	32.16	6.10	36.14	49.44	74.00	-24.56	HORIZONTAL	peak
5	7266.000	40.21	35.78	6.06	36.98	45.07	74.00	-28.93	HORIZONTAL	peak
6	9688.000	38.25	38.44	7.04	36.84	46.89	74.00	-27.11	HORIZONTAL	peak

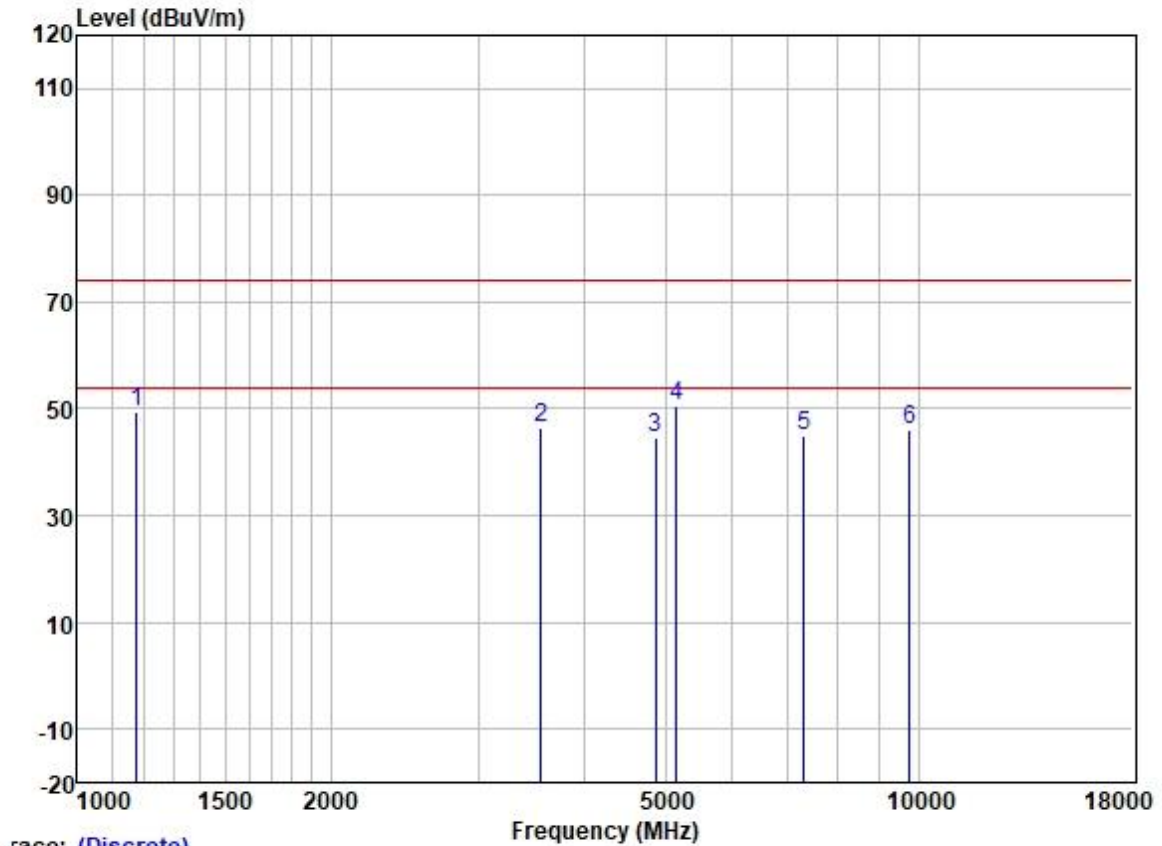
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Trace: (Discrete)

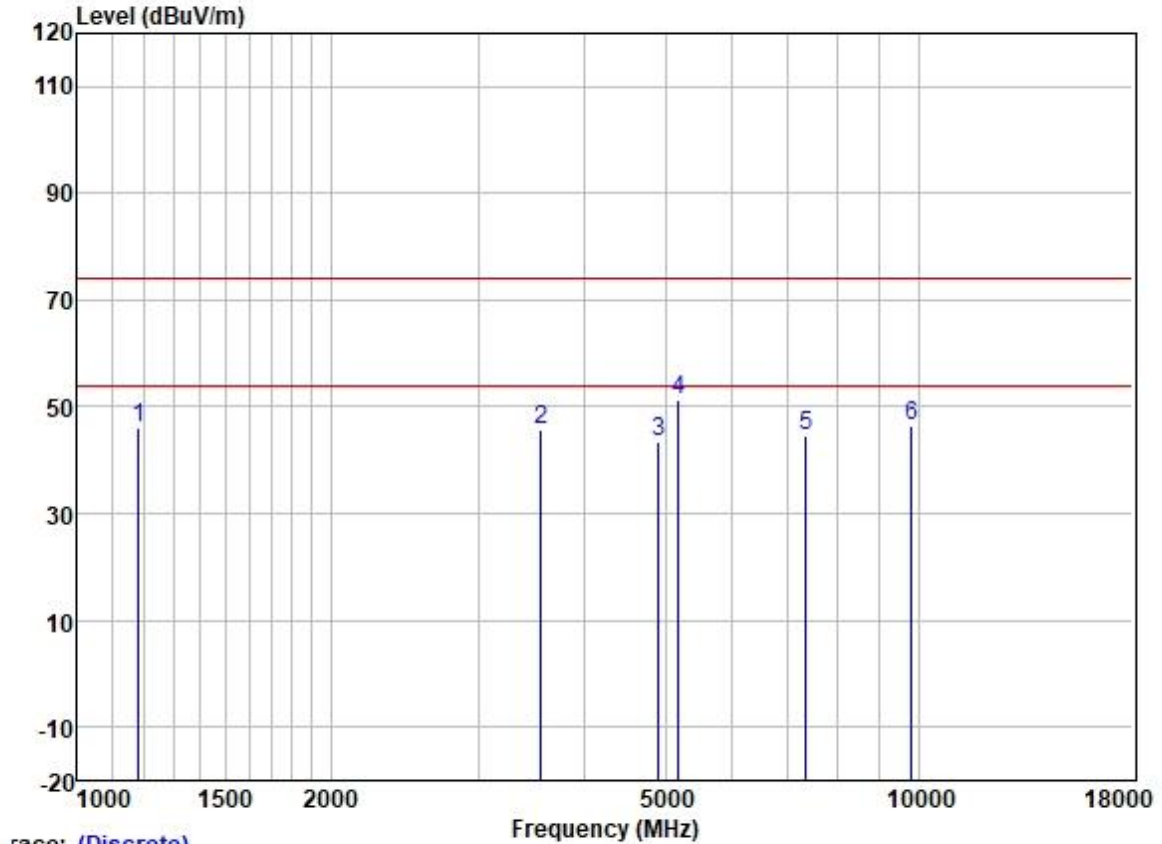
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	61.71	24.60	2.37	38.17	50.51	74.00	-23.49	VERTICAL	peak
2	3556.843	48.75	28.98	4.44	36.77	45.40	74.00	-28.60	VERTICAL	peak
3	4874.000	43.10	31.54	5.50	36.48	43.66	74.00	-30.34	VERTICAL	peak
4	5149.197	49.28	31.72	5.62	36.31	50.31	74.00	-23.69	VERTICAL	peak
5	7311.000	39.49	35.93	6.11	36.99	44.54	74.00	-29.46	VERTICAL	peak
6	9748.000	38.13	38.50	7.02	36.83	46.82	74.00	-27.18	VERTICAL	peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1175.697	60.83	24.58	2.38	38.17	49.62	74.00	-24.38	HORIZONTAL	peak
2	3556.843	49.86	28.98	4.44	36.77	46.51	74.00	-27.49	HORIZONTAL	peak
3	4874.000	43.94	31.54	5.50	36.48	44.50	74.00	-29.50	HORIZONTAL	peak
4	5149.197	49.43	31.72	5.62	36.31	50.46	74.00	-23.54	HORIZONTAL	peak
5	7311.000	40.03	35.93	6.11	36.99	45.08	74.00	-28.92	HORIZONTAL	peak
6	9748.000	37.51	38.50	7.02	36.83	46.20	74.00	-27.80	HORIZONTAL	peak

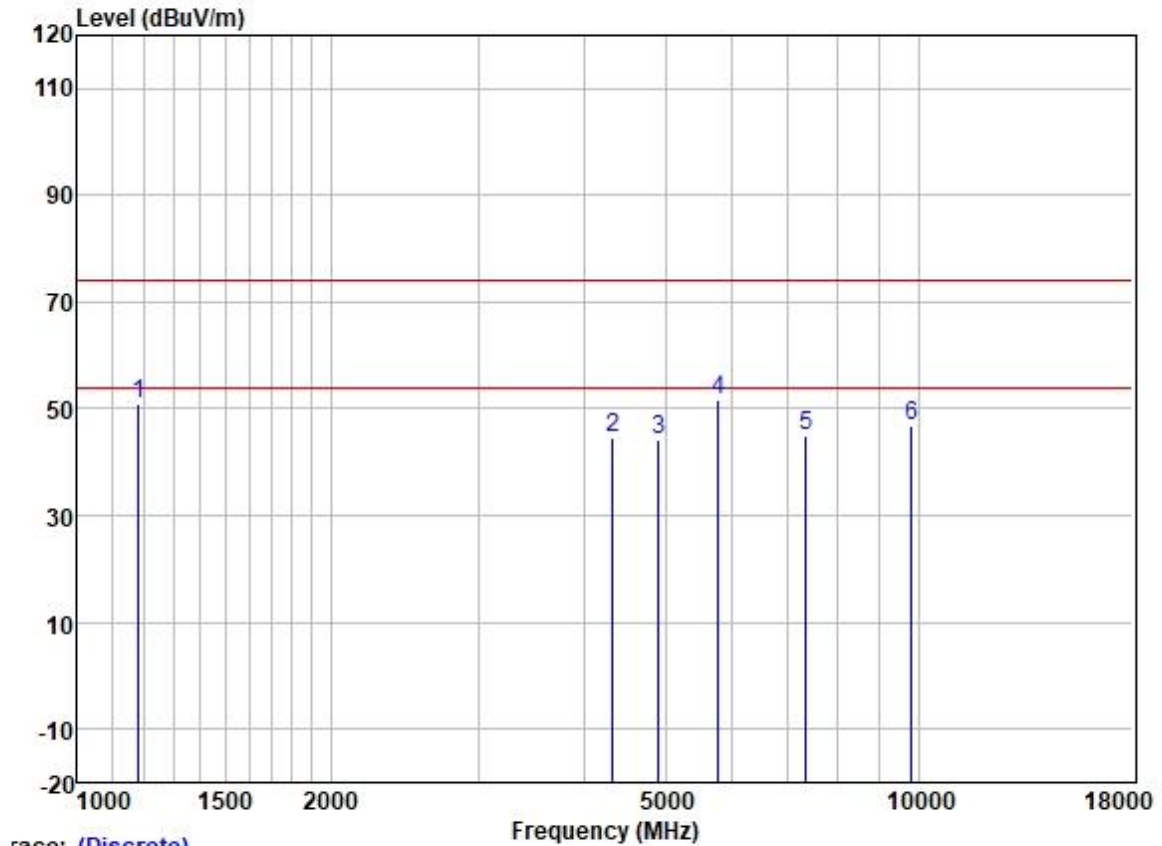
Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	57.27	24.60	2.37	38.17	46.07	74.00	-27.93	VERTICAL	peak
2	3556.843	48.91	28.98	4.44	36.77	45.56	74.00	-28.44	VERTICAL	peak
3	4904.000	42.87	31.58	5.55	36.46	43.54	74.00	-30.46	VERTICAL	peak
4	5179.049	50.12	31.73	5.61	36.30	51.16	74.00	-22.84	VERTICAL	peak
5	7356.000	39.24	36.06	6.15	37.03	44.42	74.00	-29.58	VERTICAL	peak
6	9808.000	37.81	38.56	7.00	36.83	46.54	74.00	-27.46	VERTICAL	peak

Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1182.513	62.14	24.60	2.37	38.17	50.94	74.00	-23.06	HORIZONTAL	peak
2	4329.354	46.08	30.54	4.67	36.64	44.65	74.00	-29.35	HORIZONTAL	peak
3	4904.000	43.58	31.58	5.55	36.46	44.25	74.00	-29.75	HORIZONTAL	peak
4	5780.300	49.39	32.16	6.10	36.14	51.51	74.00	-22.49	HORIZONTAL	peak
5	7356.000	39.61	36.06	6.15	37.03	44.79	74.00	-29.21	HORIZONTAL	peak
6	9808.000	37.92	38.56	7.00	36.83	46.65	74.00	-27.35	HORIZONTAL	peak

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR220500060303

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2205000603HS



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10 Appendix

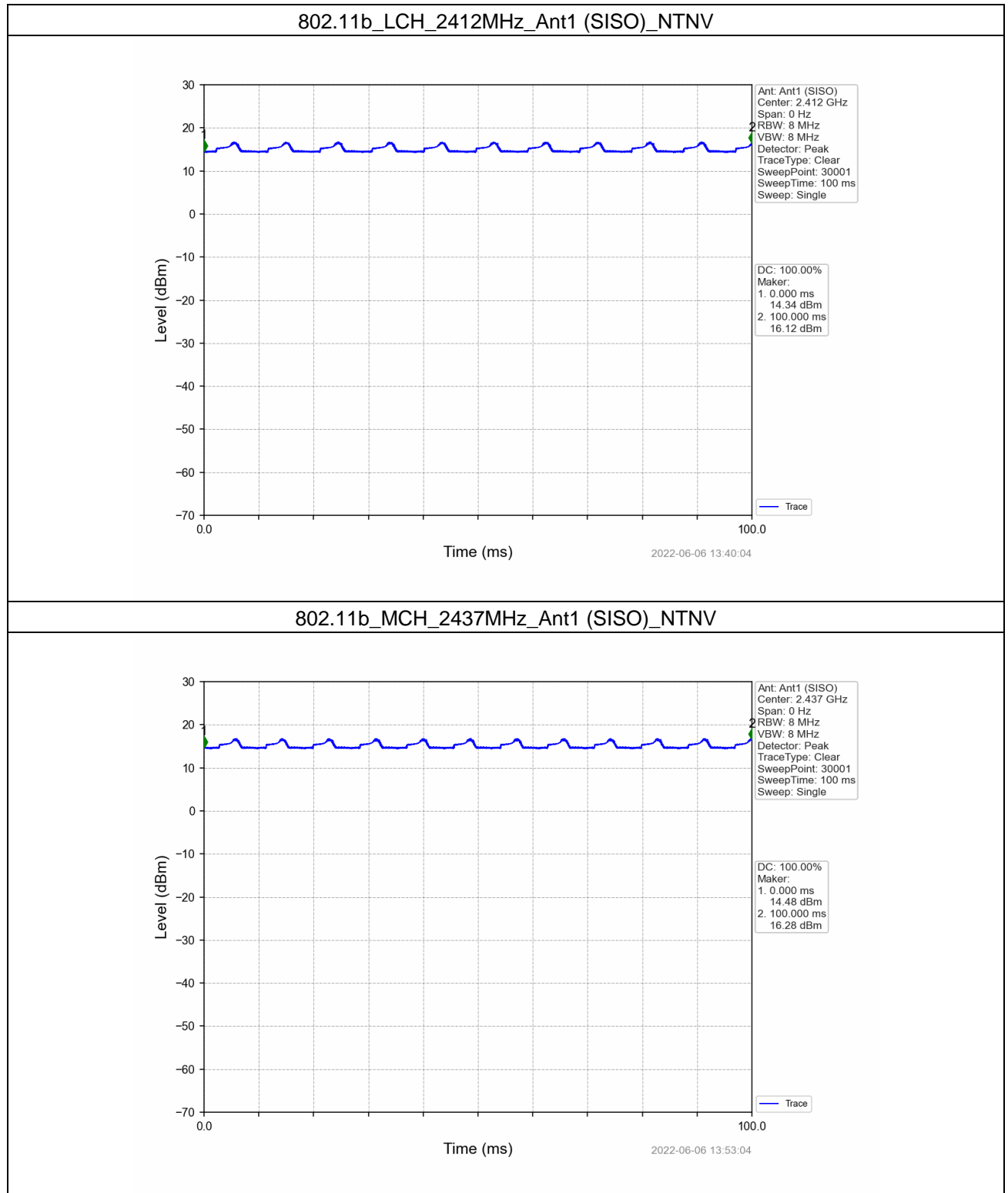
1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

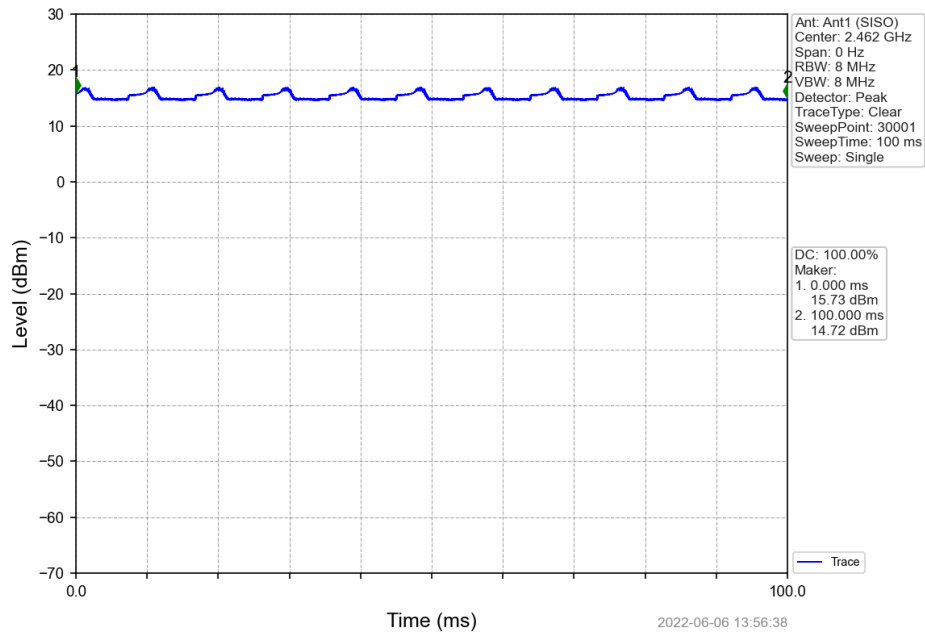
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

1.1.2 Test Graph

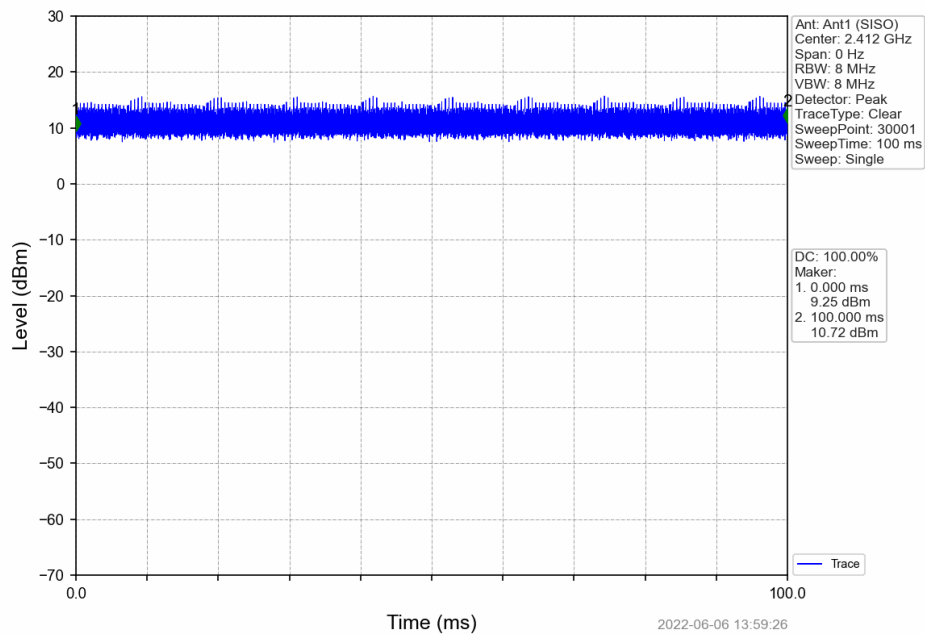


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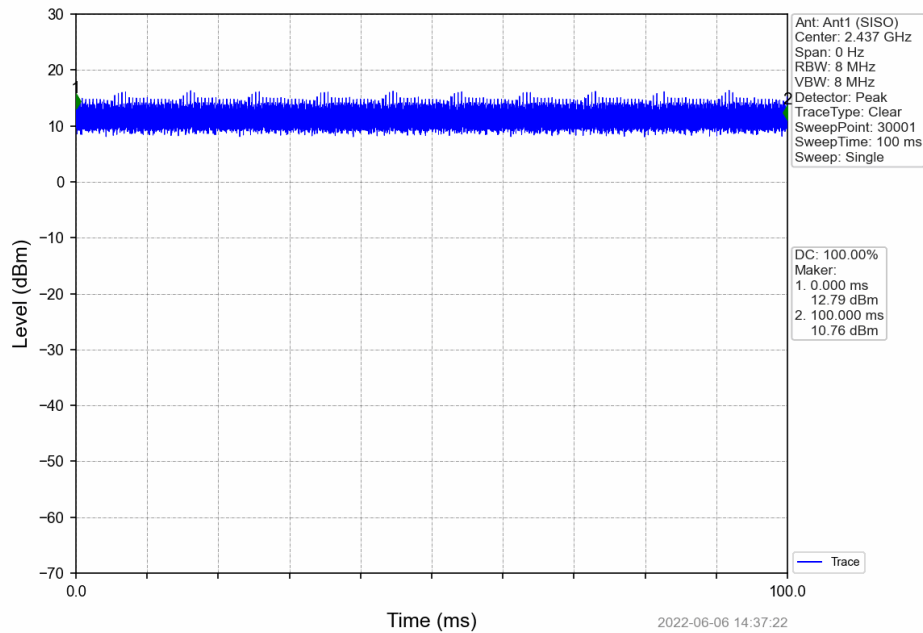
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



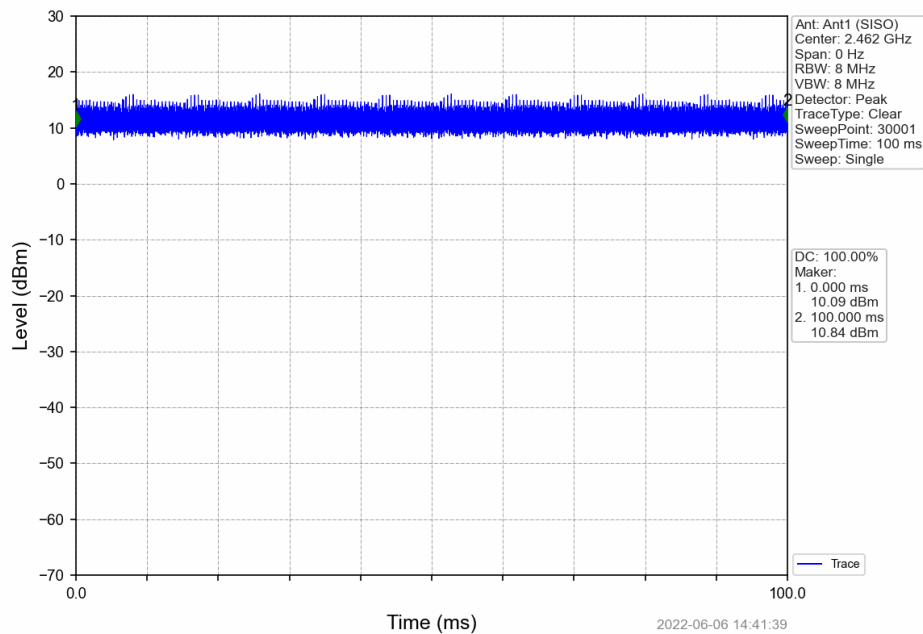
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



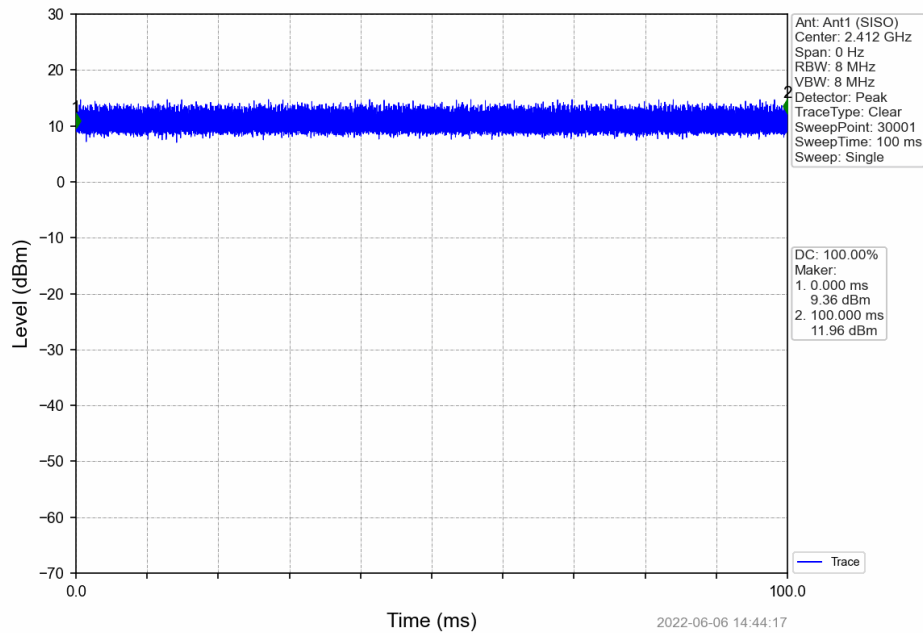
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



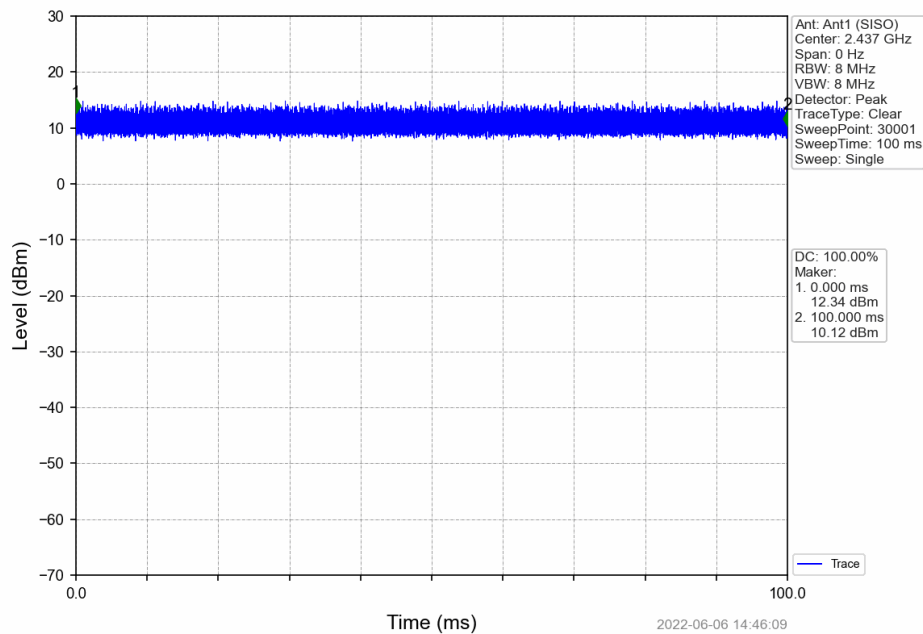
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



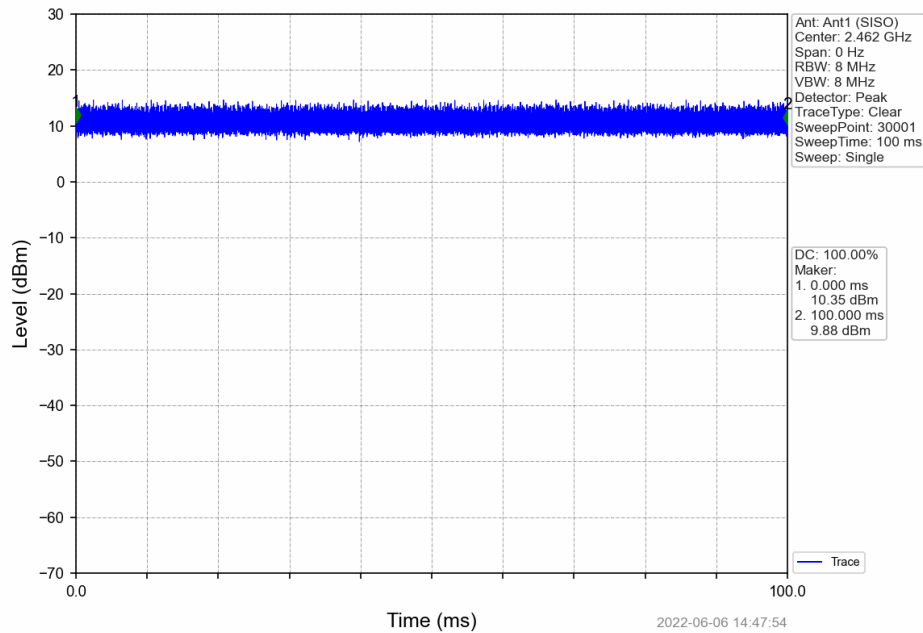
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



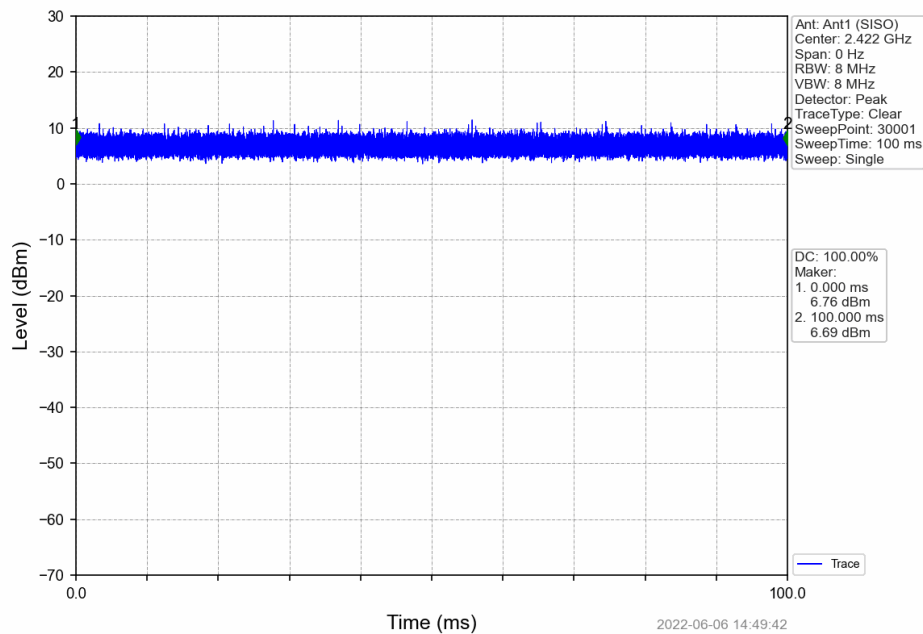
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



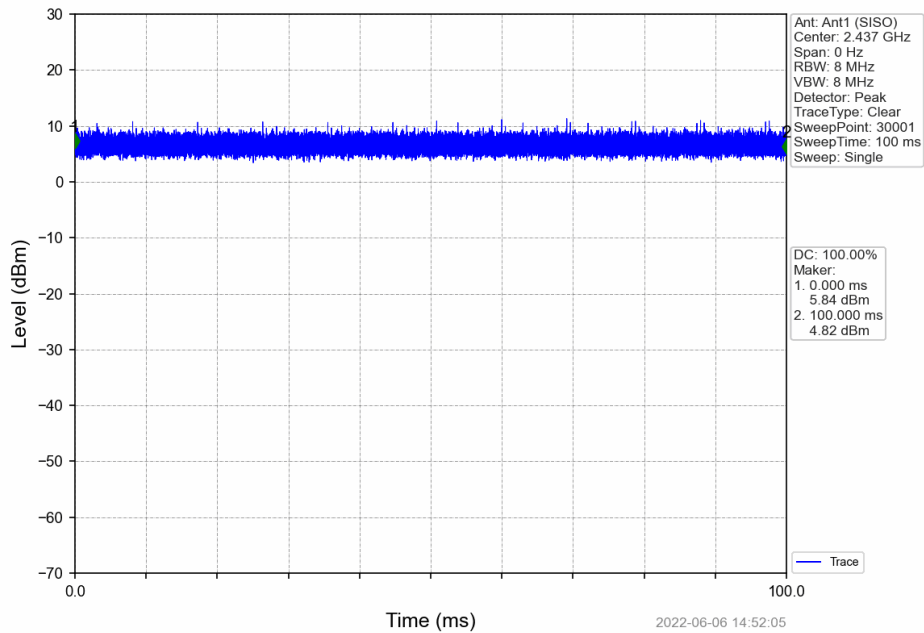
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



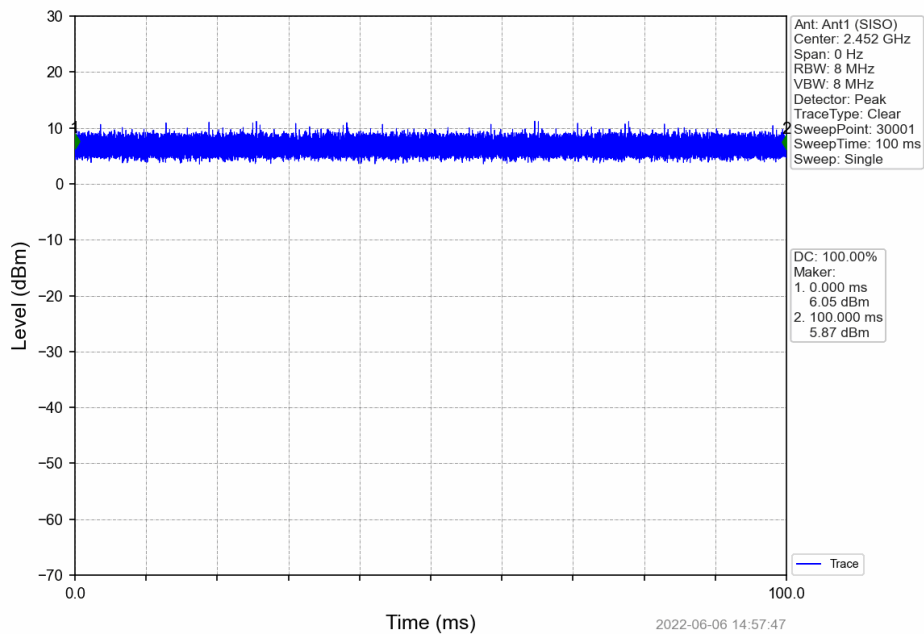
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 6dB BW

2.1.1 Test Result

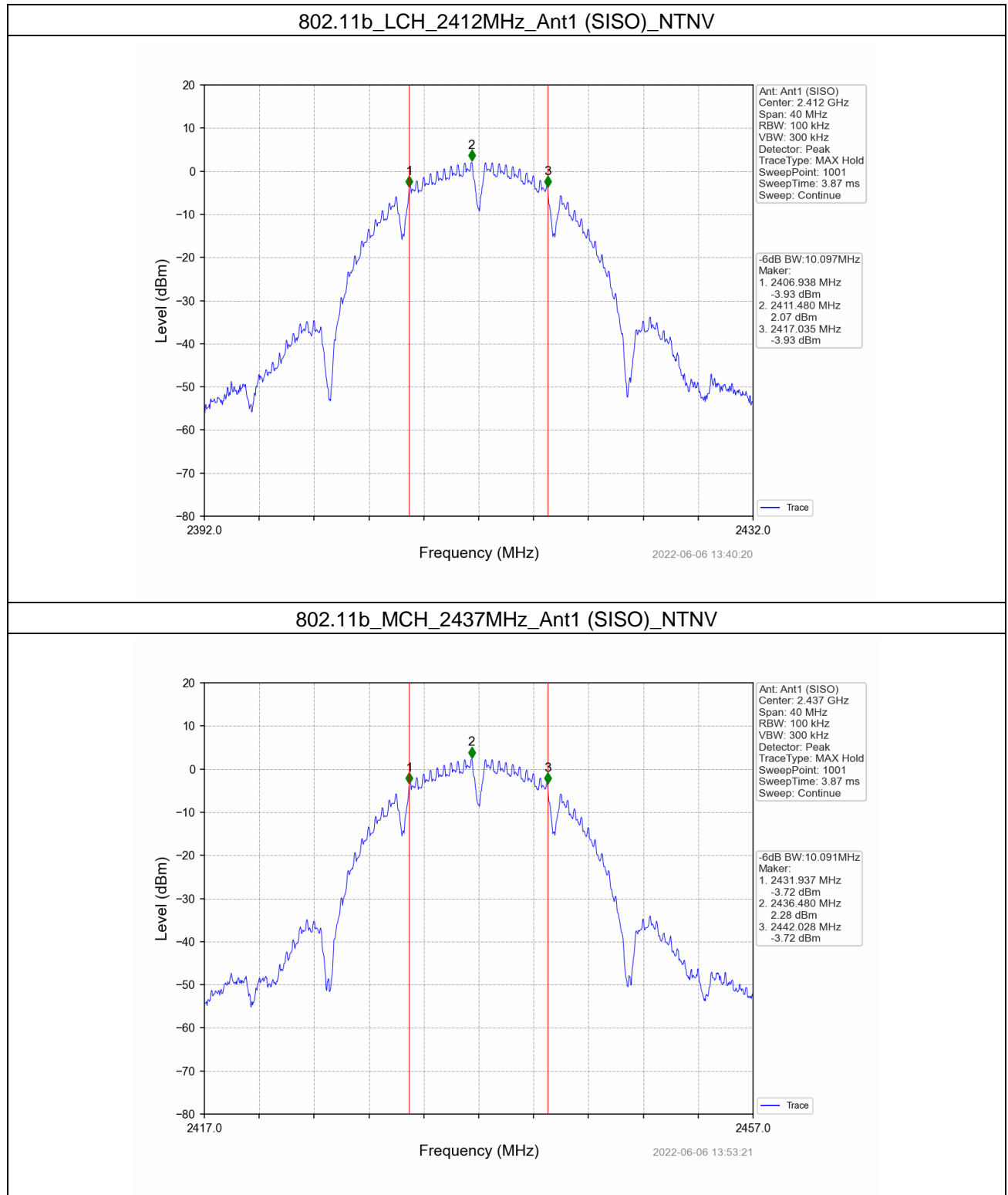
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.097	≥ 0.5	Pass
		2437	1	10.091	≥ 0.5	Pass
		2462	1	10.091	≥ 0.5	Pass
802.11g	SISO	2412	1	16.607	≥ 0.5	Pass
		2437	1	16.619	≥ 0.5	Pass
		2462	1	16.613	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.849	≥ 0.5	Pass
		2437	1	17.850	≥ 0.5	Pass
		2462	1	17.846	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.472	≥ 0.5	Pass
		2437	1	36.473	≥ 0.5	Pass
		2452	1	36.468	≥ 0.5	Pass



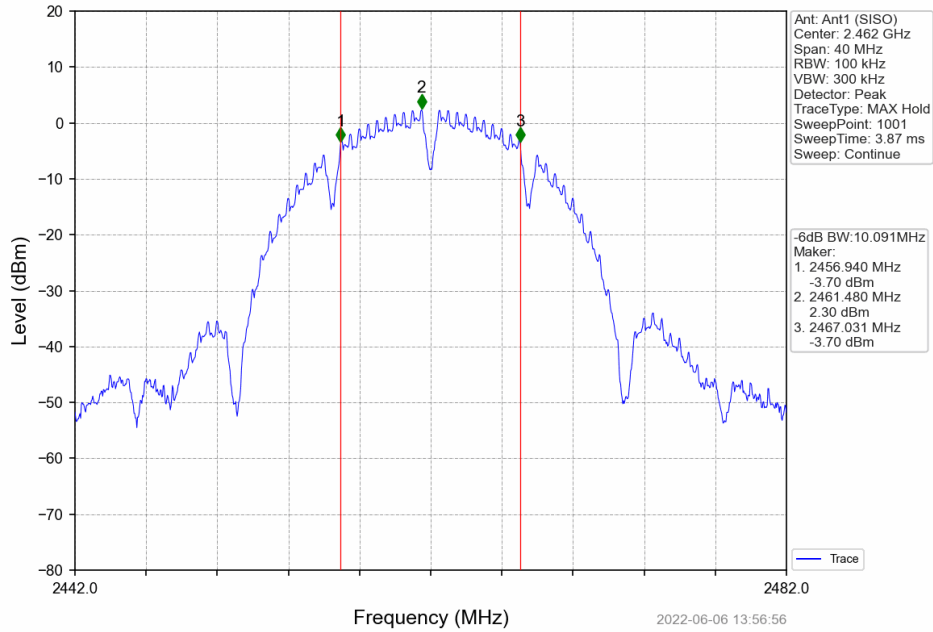
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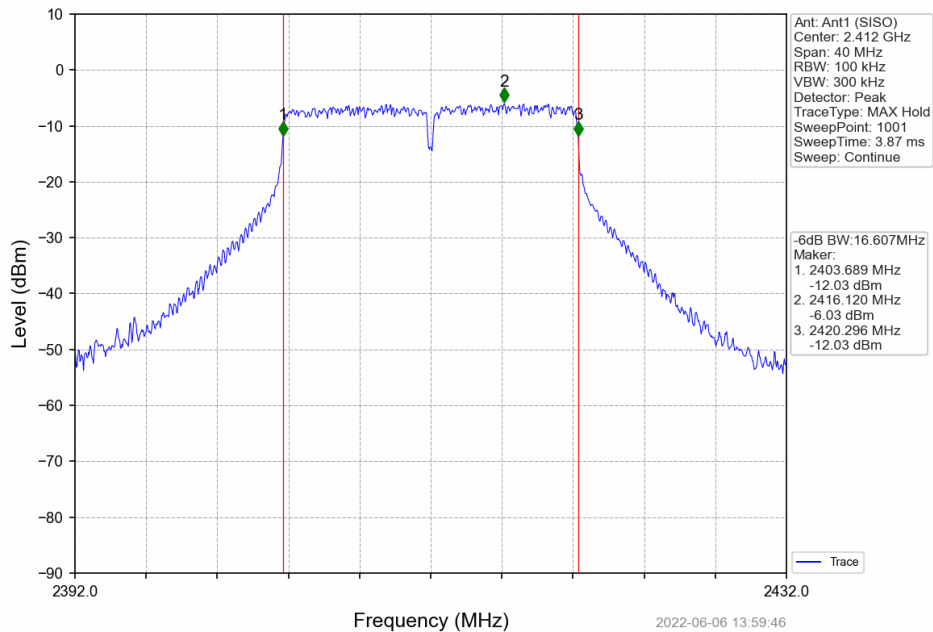
2.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

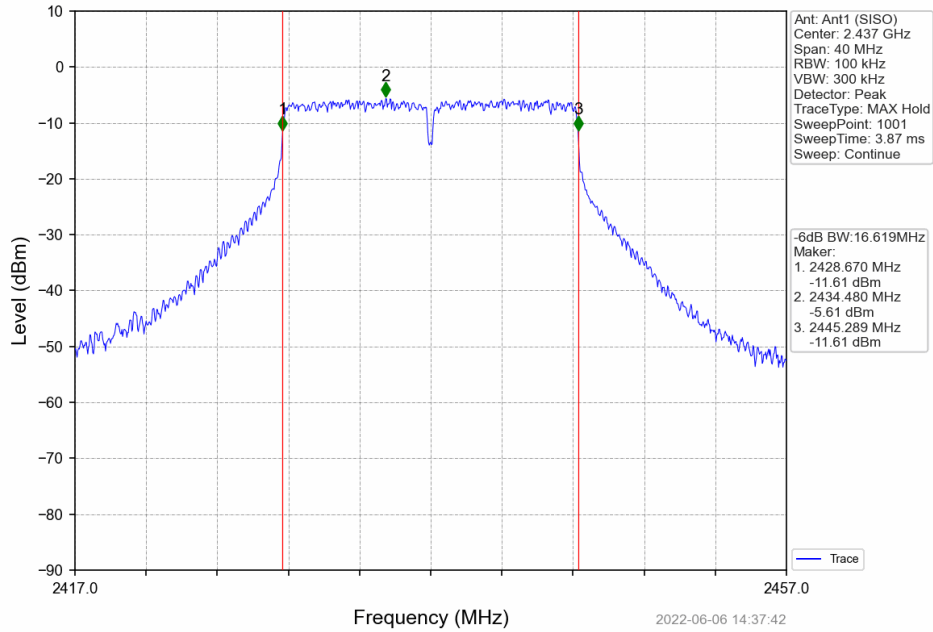


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

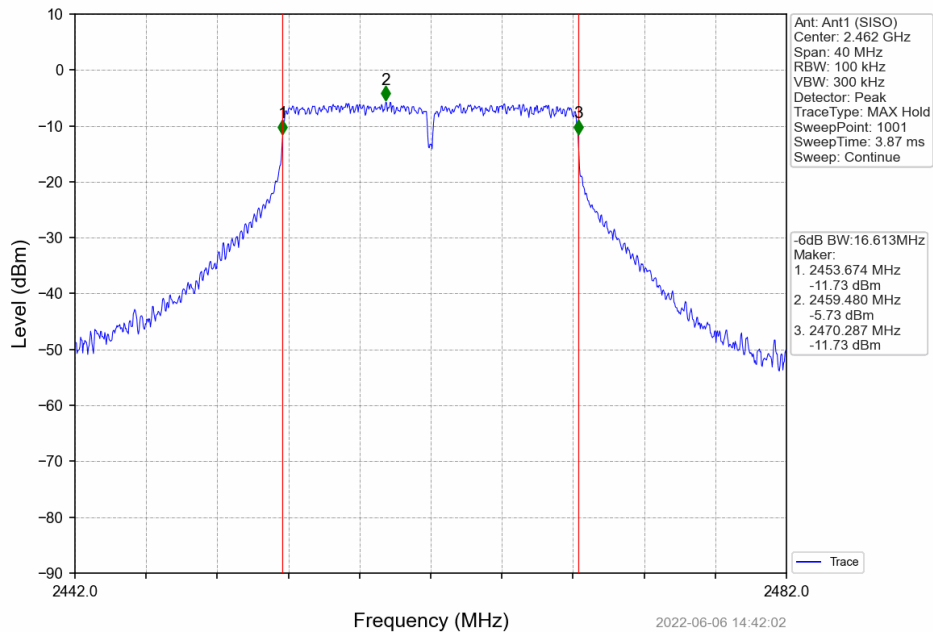


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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

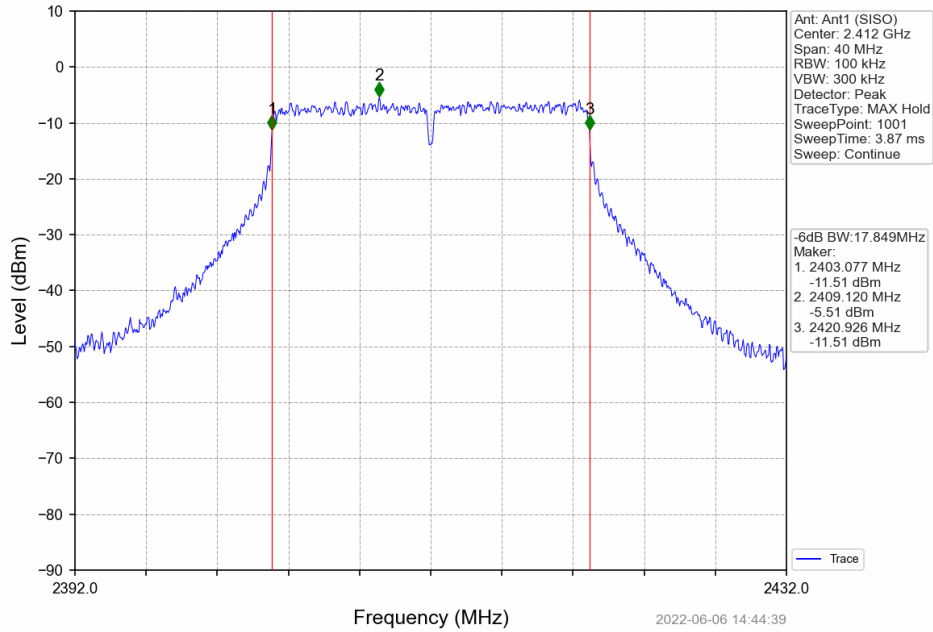


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

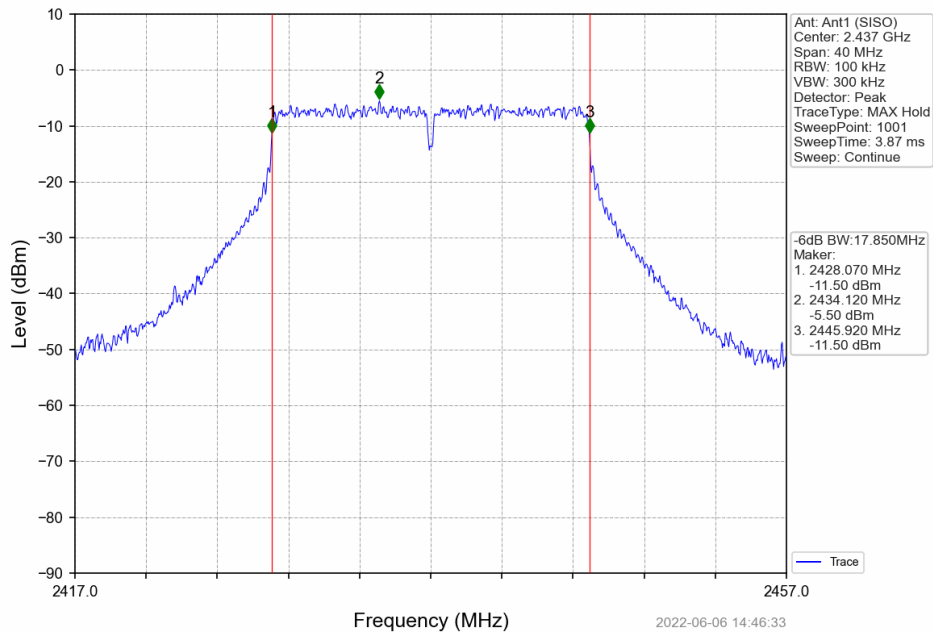


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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

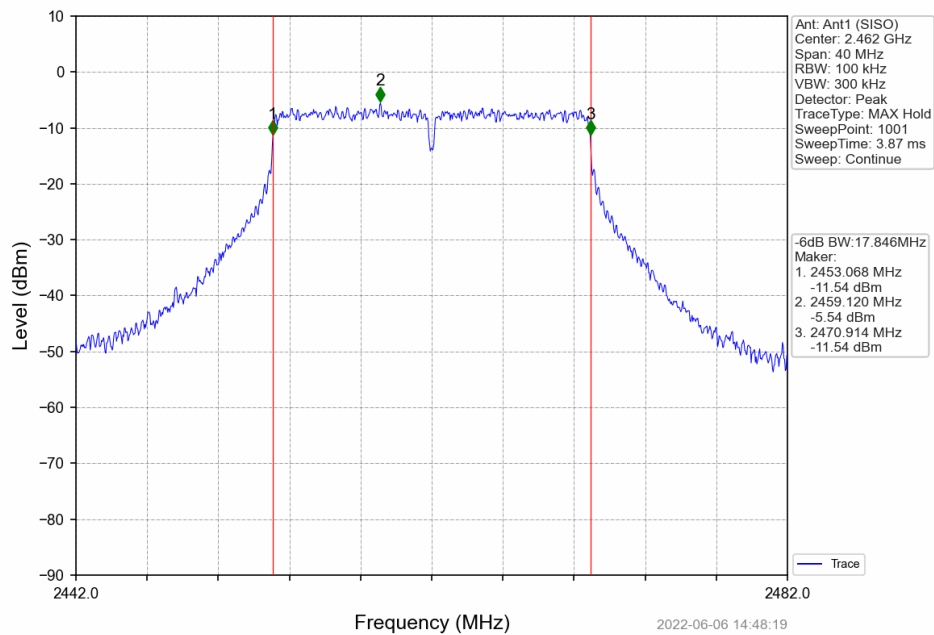


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

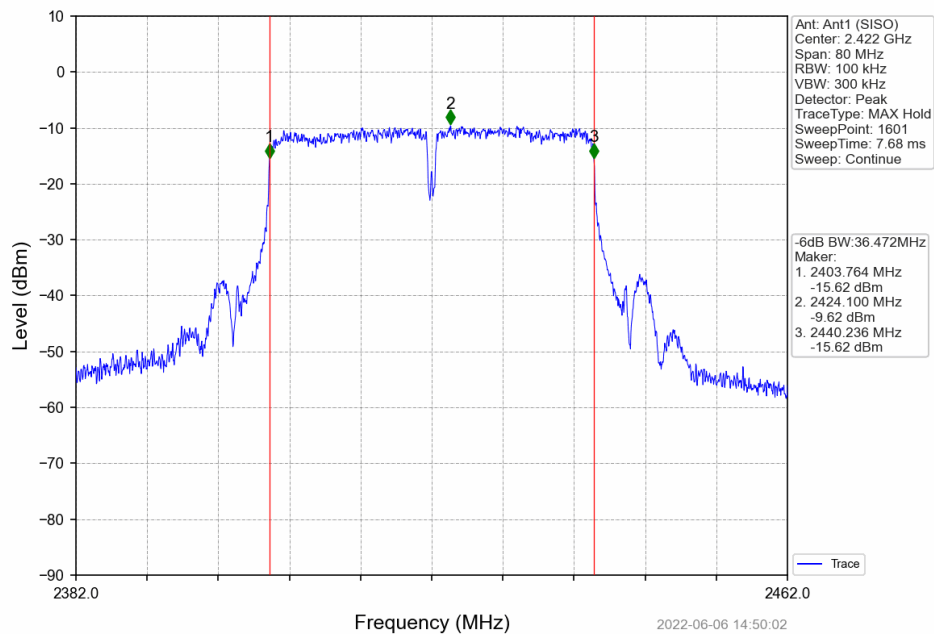


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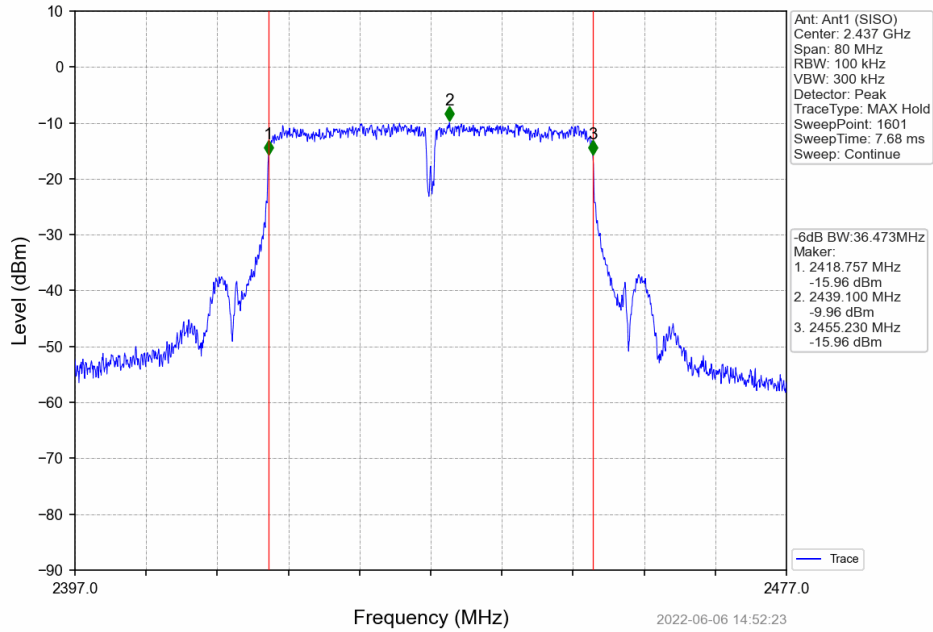
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



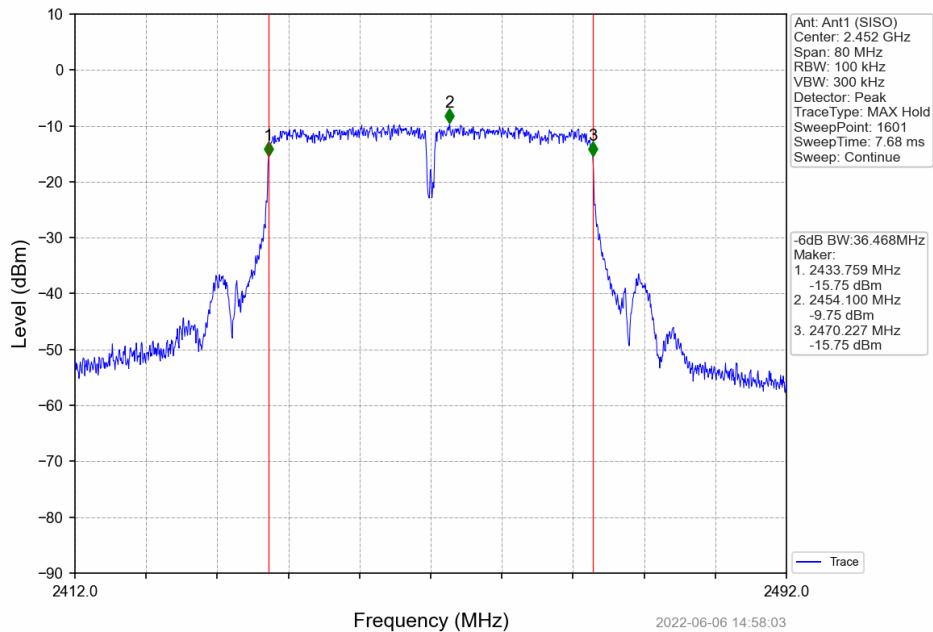
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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	14.32	≤ -30	Pass
		2437	14.52	≤ -30	Pass
		2462	14.56	≤ -30	Pass
802.11g	SISO	2412	15.80	≤ -30	Pass
		2437	16.18	≤ -30	Pass
		2462	16.03	≤ -30	Pass
802.11n (HT20)	SISO	2412	16.05	≤ -30	Pass
		2437	16.05	≤ -30	Pass
		2462	15.89	≤ -30	Pass
802.11n (HT40)	SISO	2422	15.26	≤ -30	Pass
		2437	14.96	≤ -30	Pass
		2452	15.14	≤ -30	Pass

Note1: Antenna Gain: Ant1: 2.64dBi;

4. Maximum Power Spectral Density

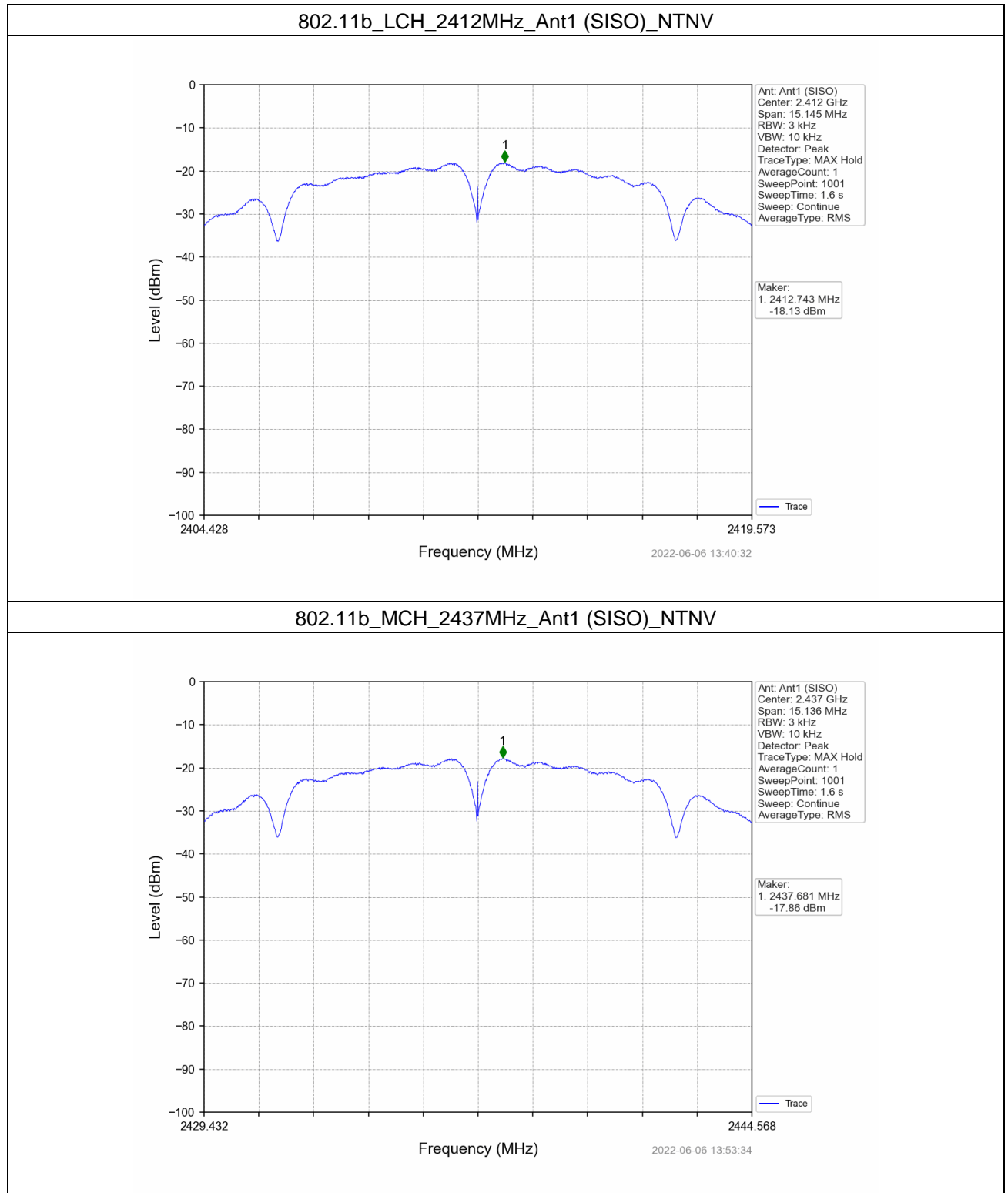
4.1 PSD

4.1.1 Test Result

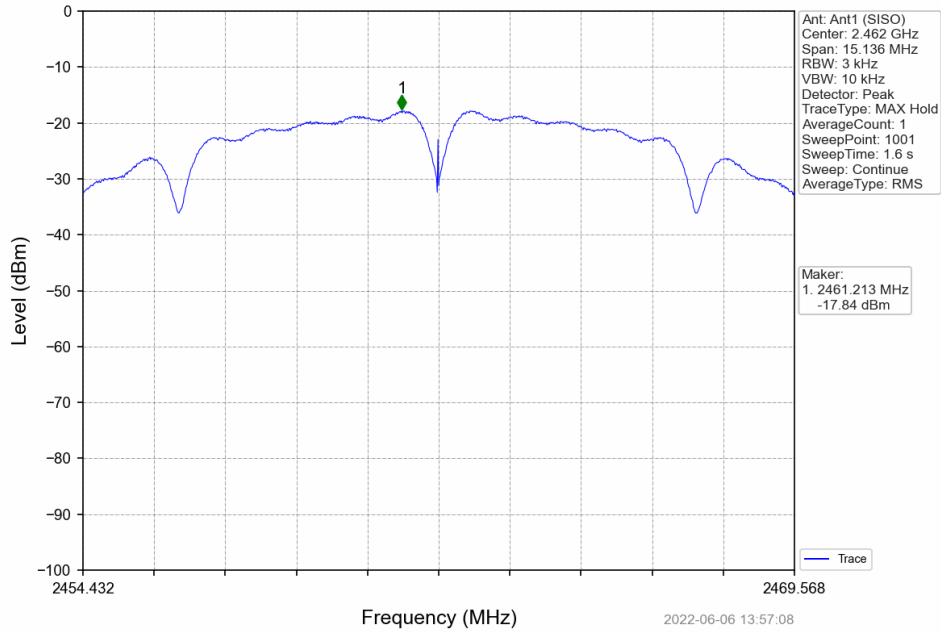
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-18.13	≤ -8	Pass
		2437	-17.86	≤ -8	Pass
		2462	-17.84	≤ -8	Pass
802.11g	SISO	2412	-20.14	≤ -8	Pass
		2437	-19.96	≤ -8	Pass
		2462	-20.06	≤ -8	Pass
802.11n (HT20)	SISO	2412	-19.98	≤ -8	Pass
		2437	-19.50	≤ -8	Pass
		2462	-20.24	≤ -8	Pass
802.11n (HT40)	SISO	2422	-21.79	≤ -8	Pass
		2437	-21.03	≤ -8	Pass
		2452	-21.15	≤ -8	Pass

Note1: Antenna Gain: Ant1: 2.64dBi;

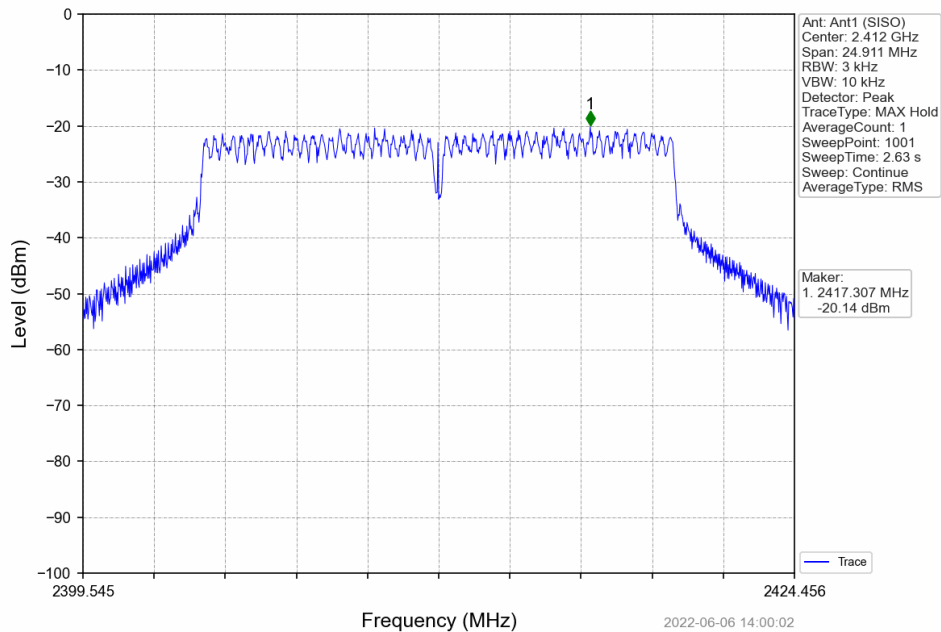
4.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

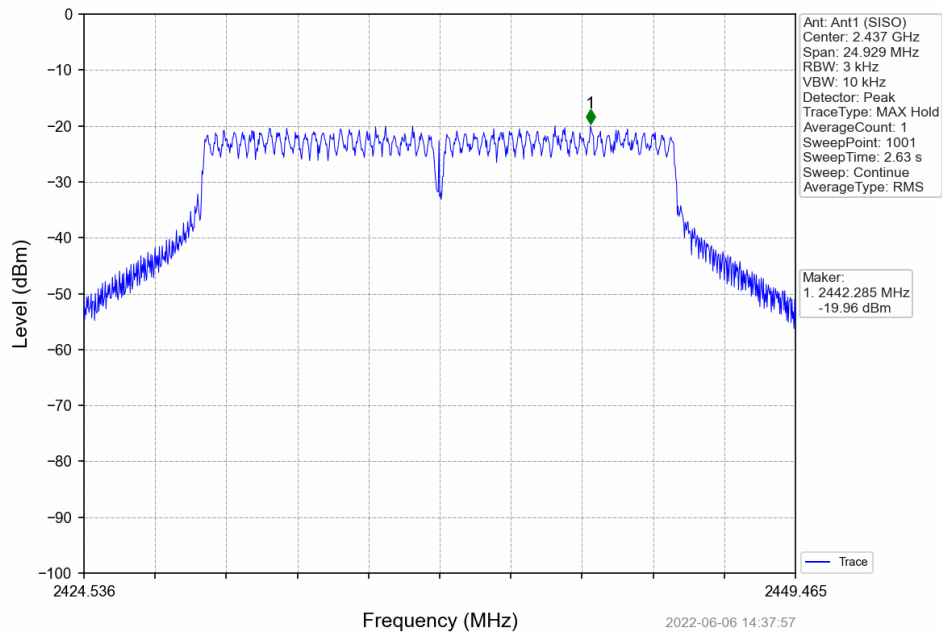


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

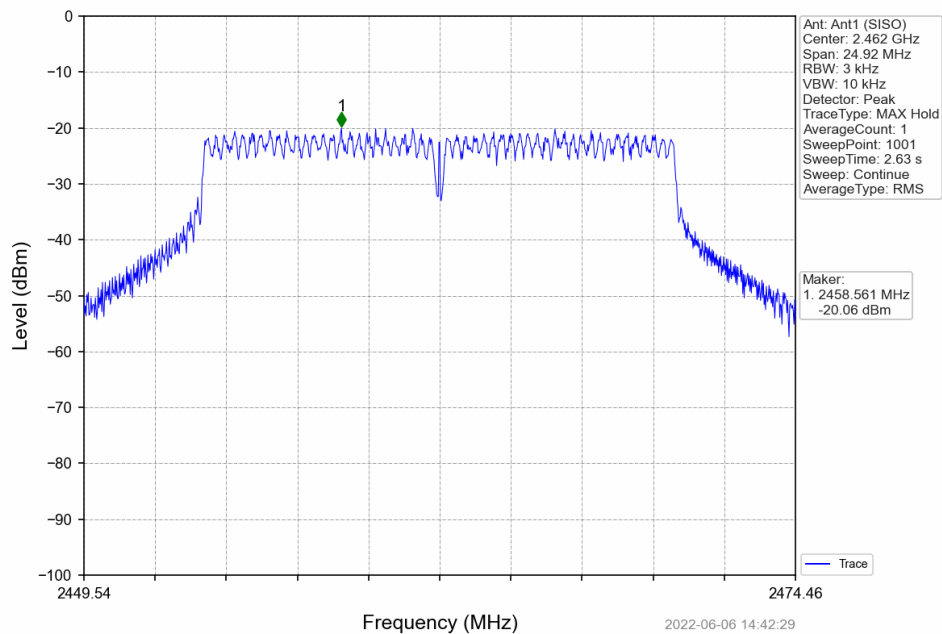


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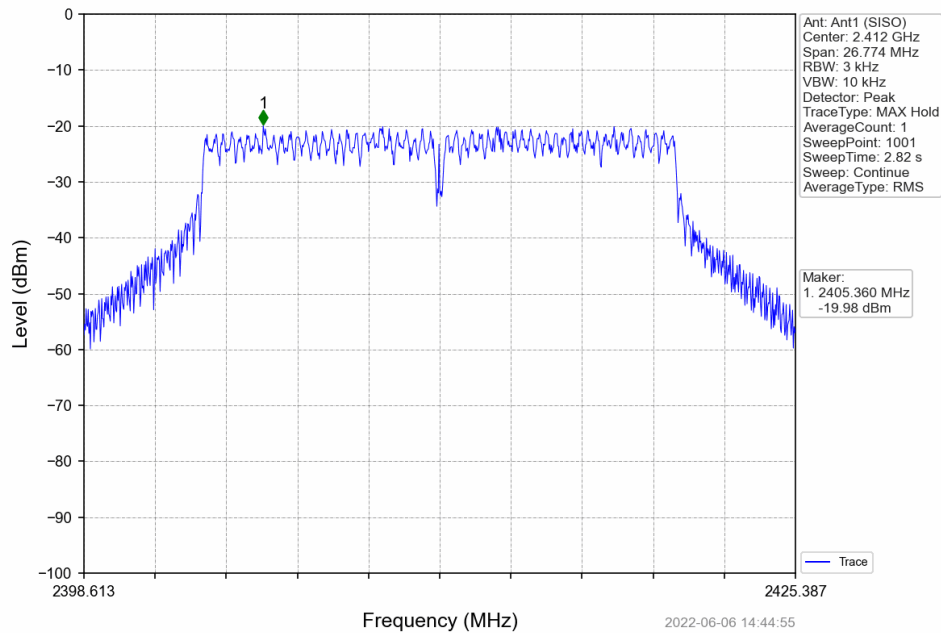
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



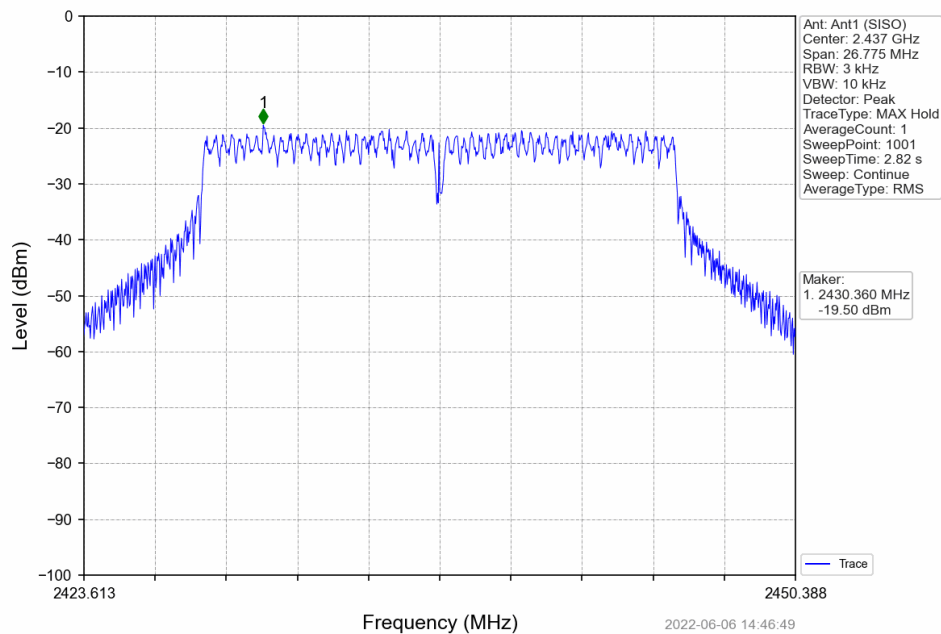
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



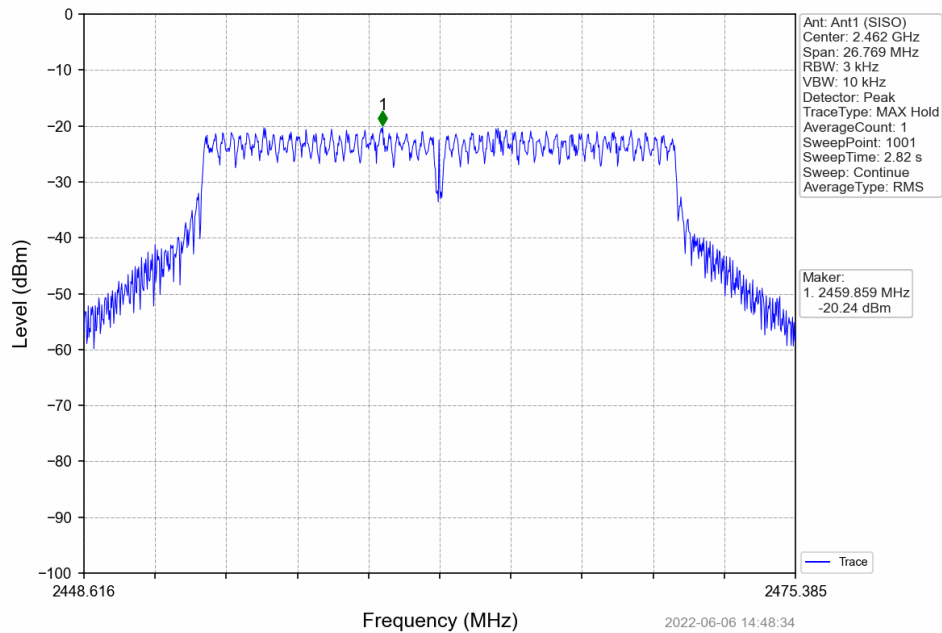
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



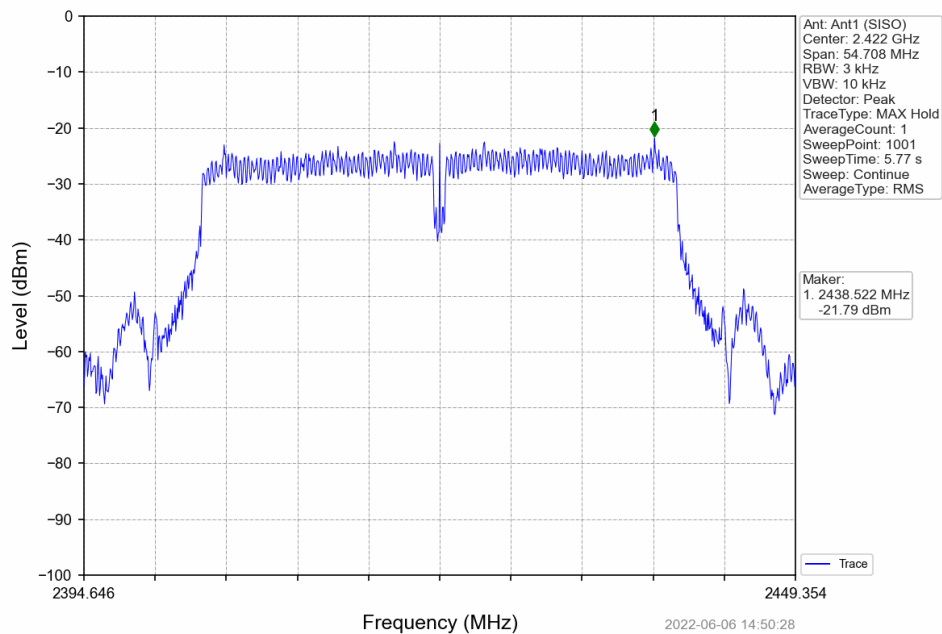
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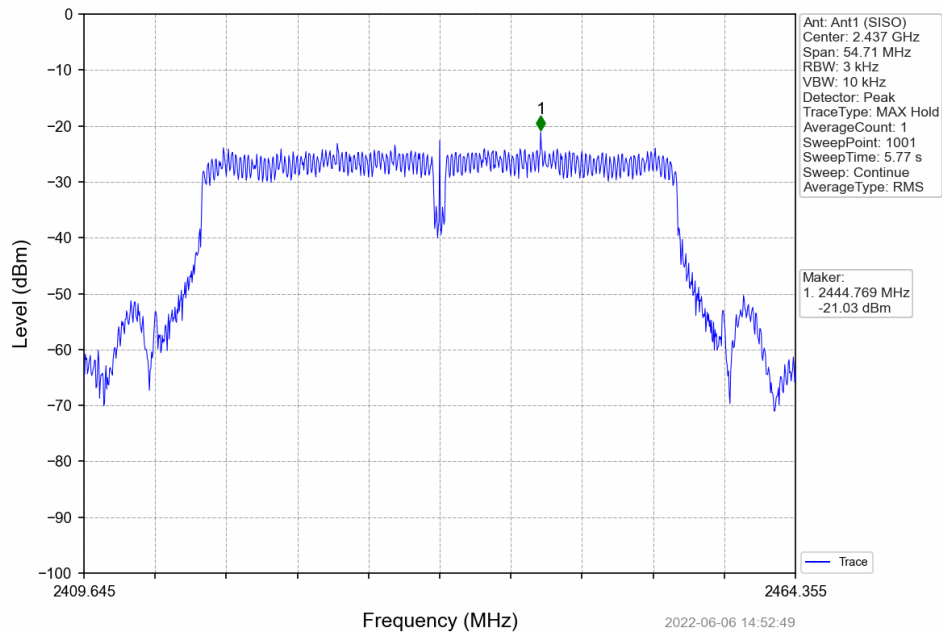
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



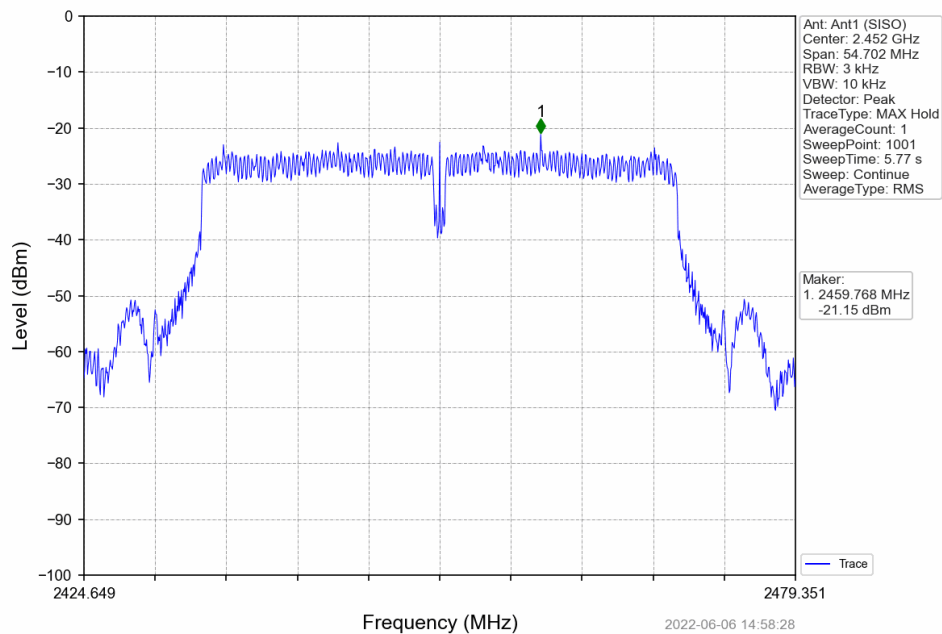
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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

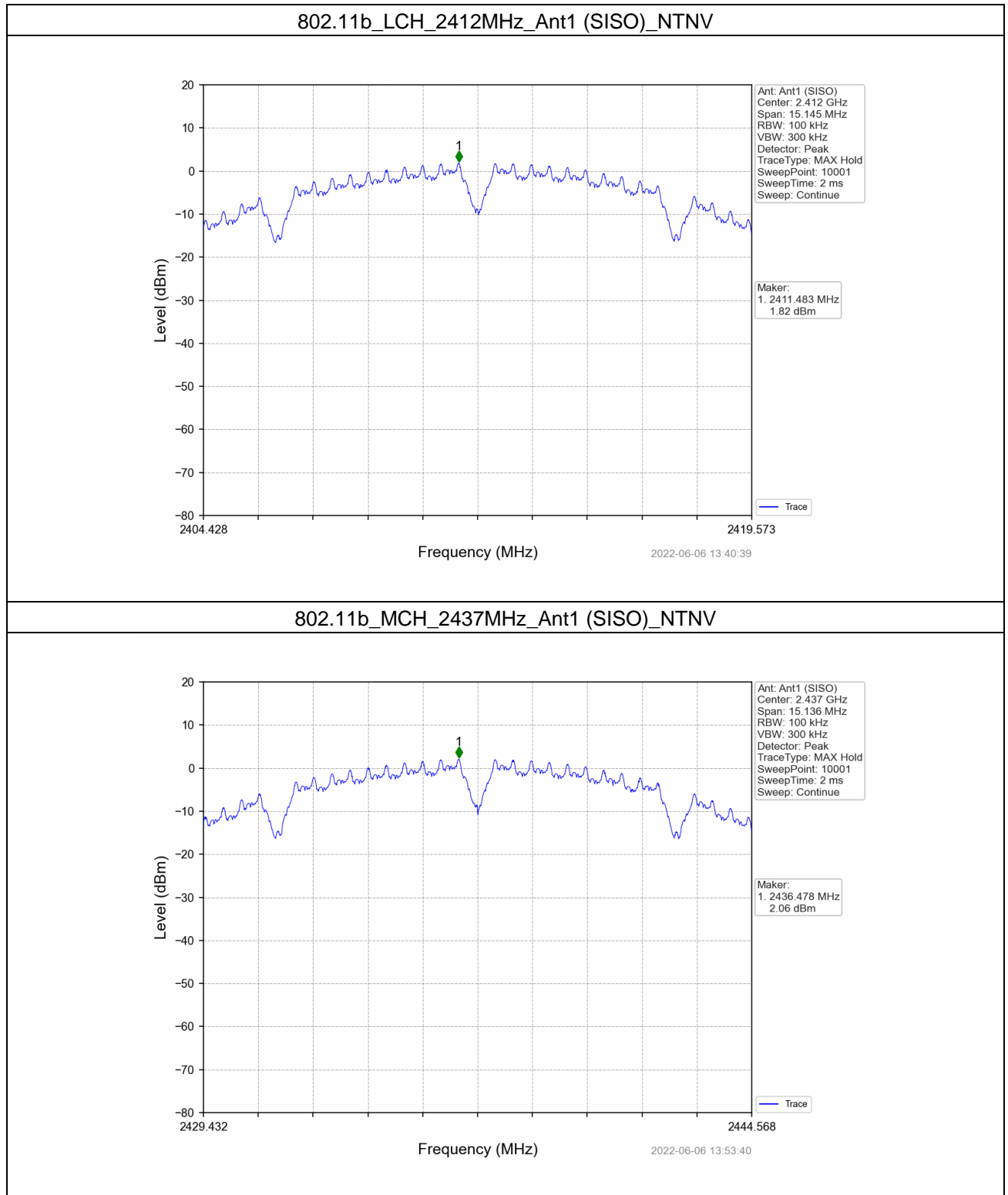
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	1.82
		2437	1	2.06
		2462	1	2.05
802.11g	SISO	2412	1	-6.09
		2437	1	-5.73
		2462	1	-5.91
802.11n (HT20)	SISO	2412	1	-5.97
		2437	1	-5.49
		2462	1	-5.71
802.11n (HT40)	SISO	2422	1	-9.64
		2437	1	-10.08
		2452	1	-9.87

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.

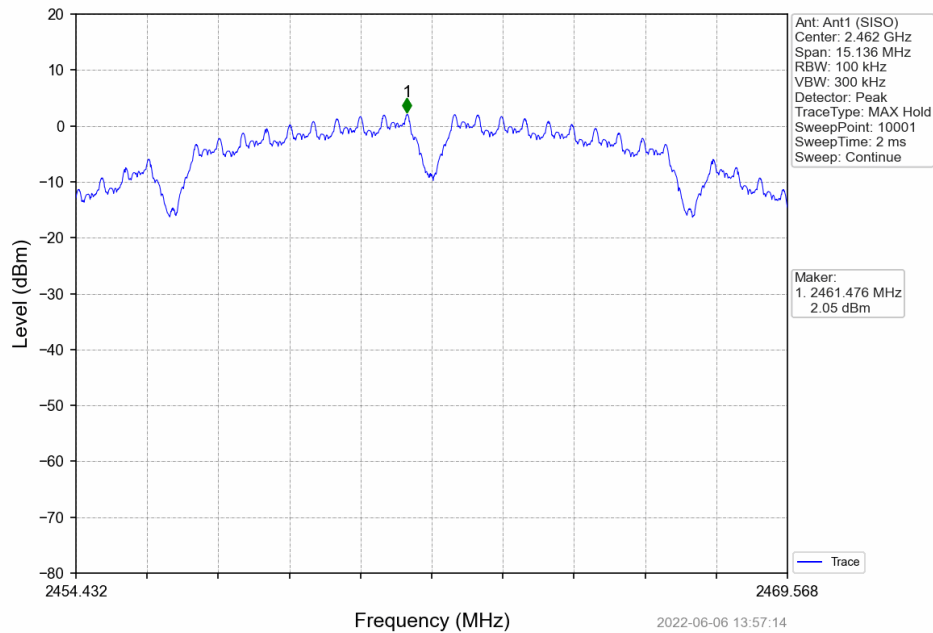
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

5.1.2 Test Graph

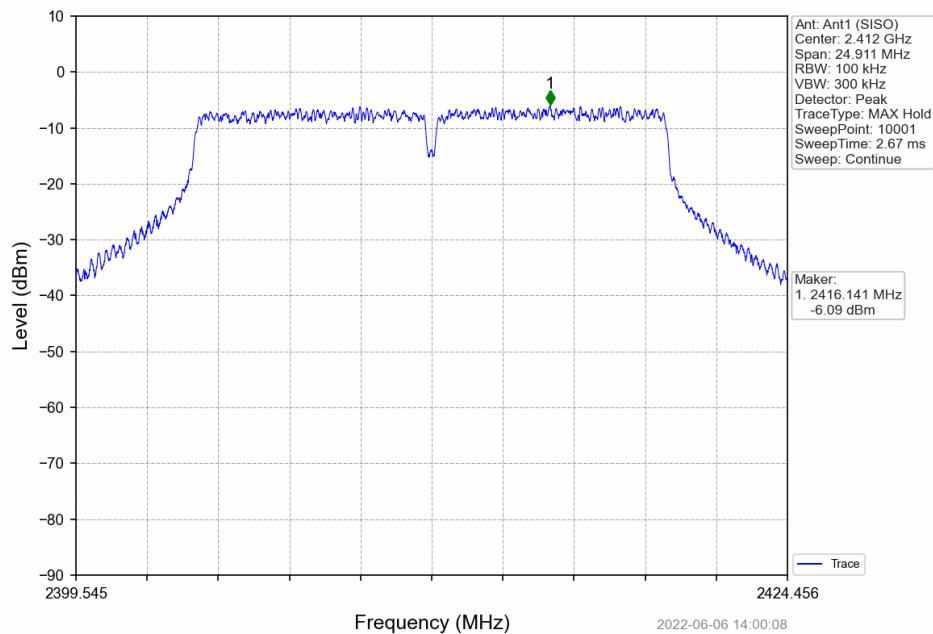


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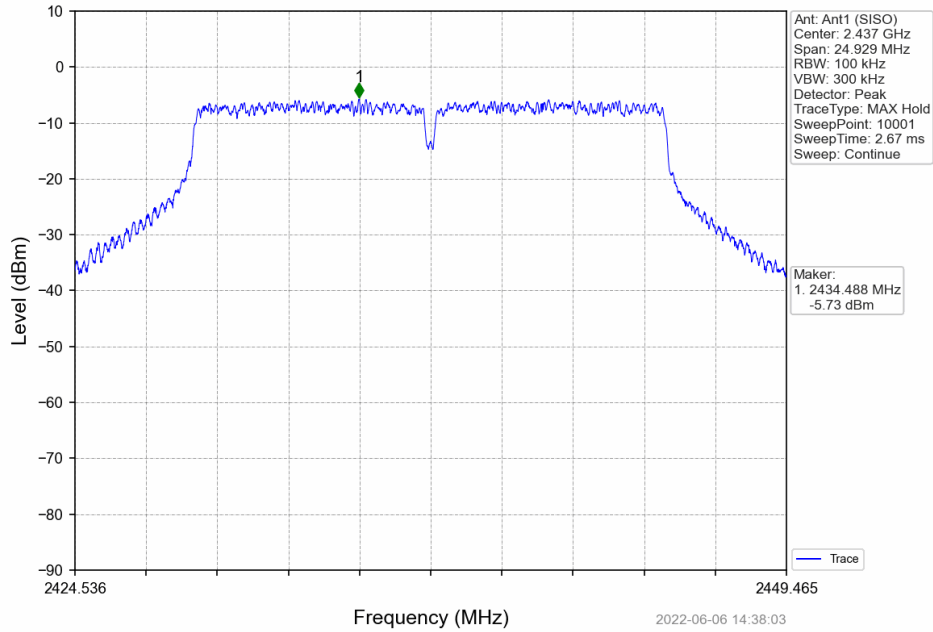
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



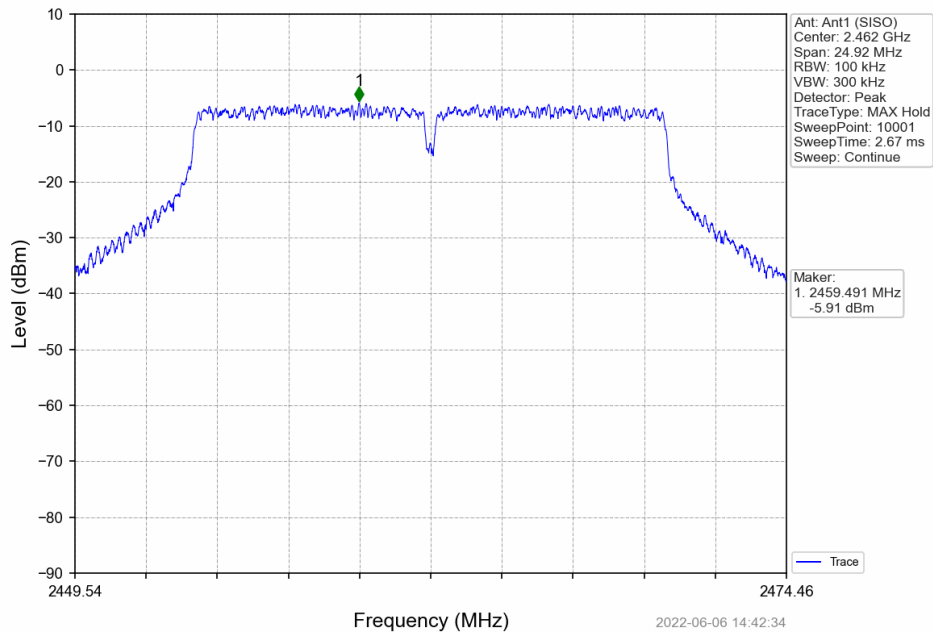
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



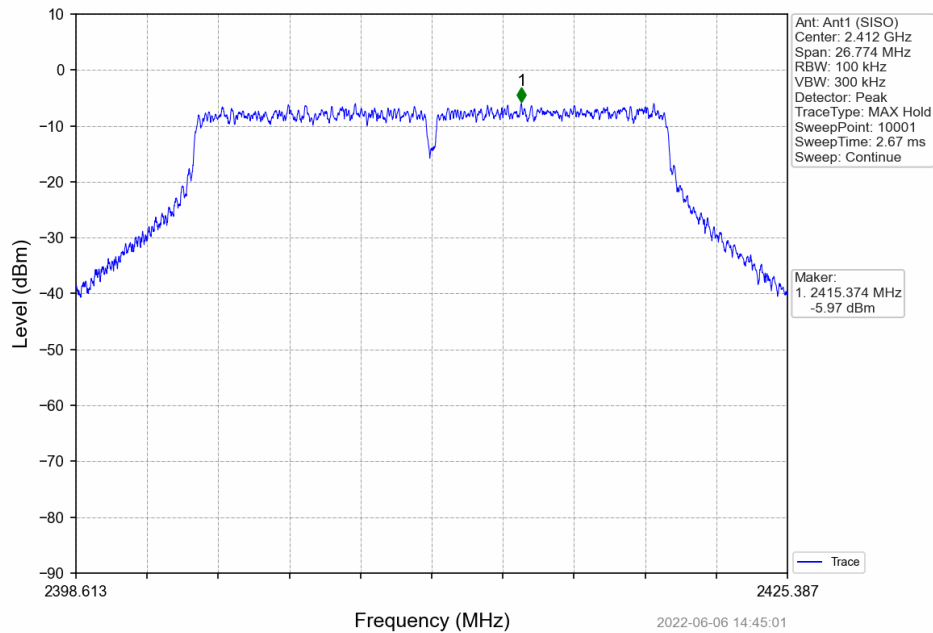
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



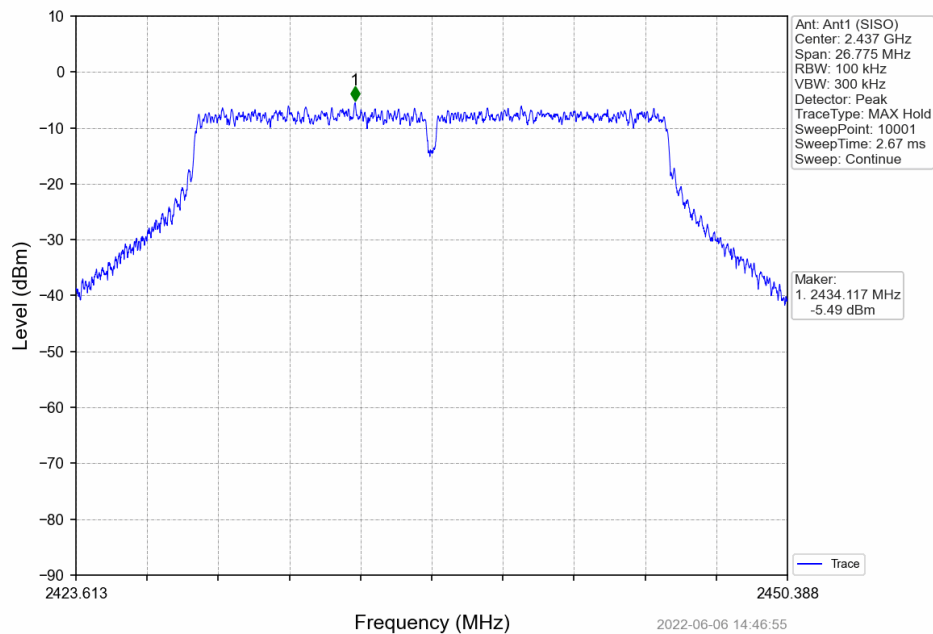
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



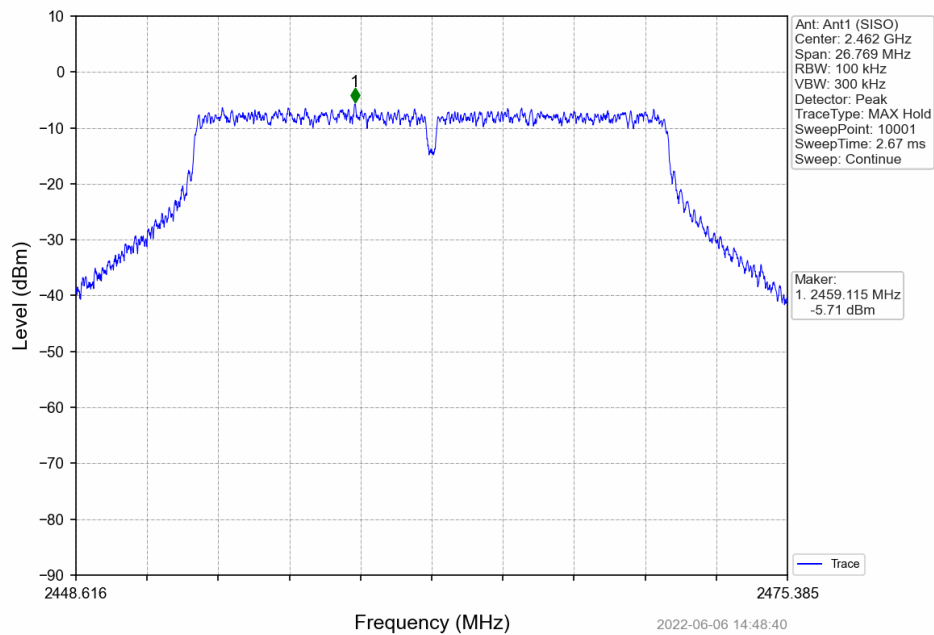
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



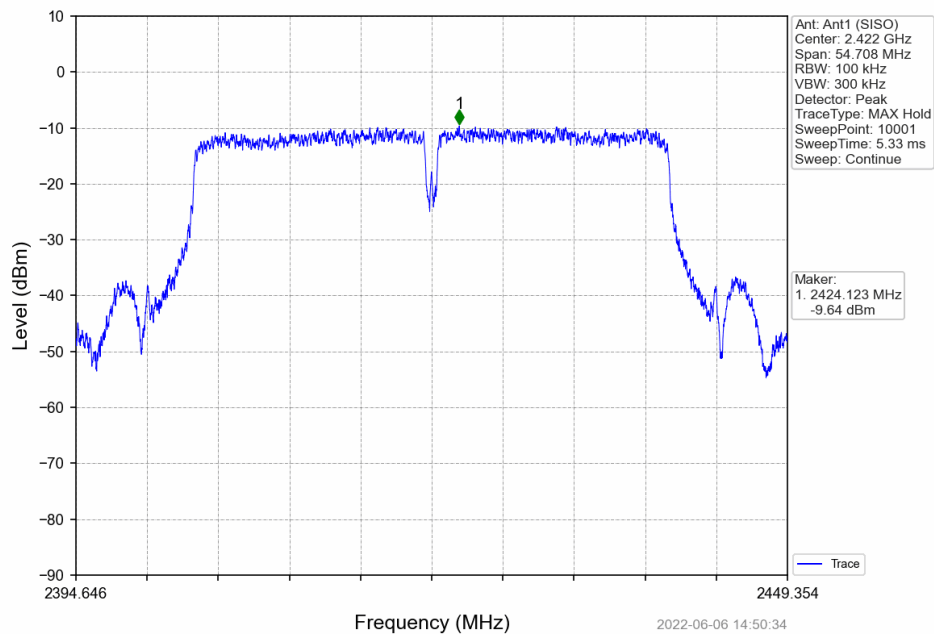
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



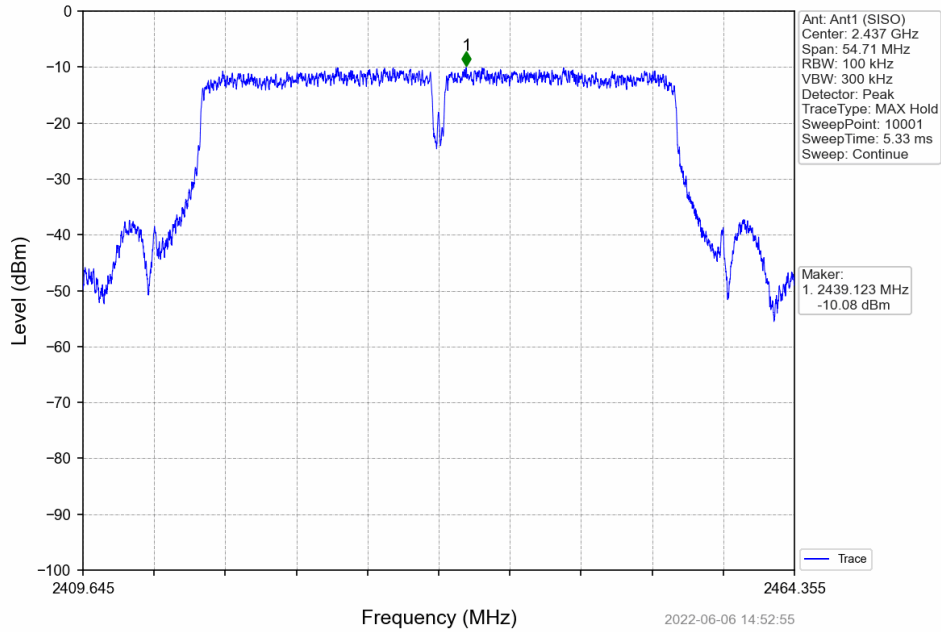
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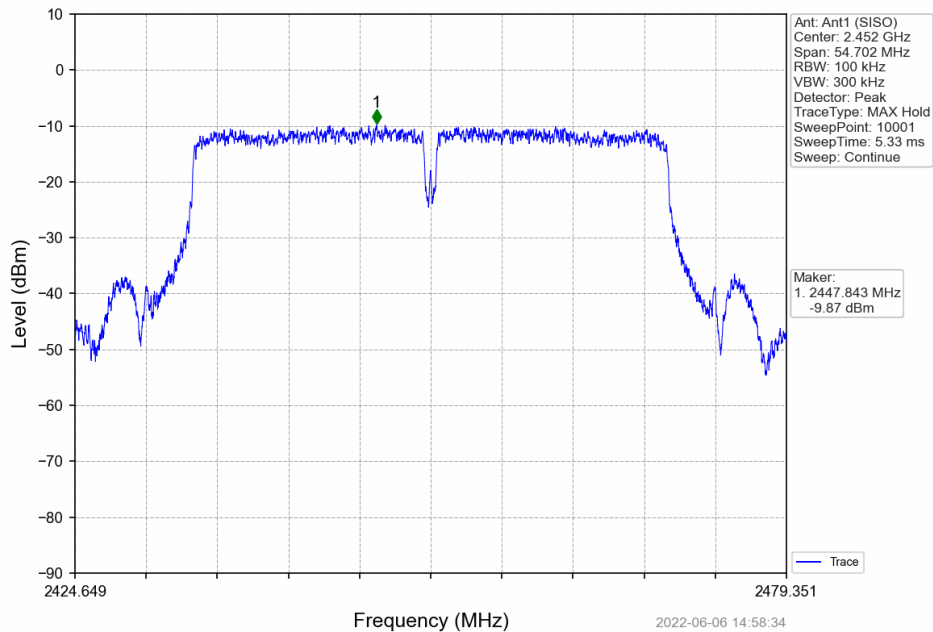
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

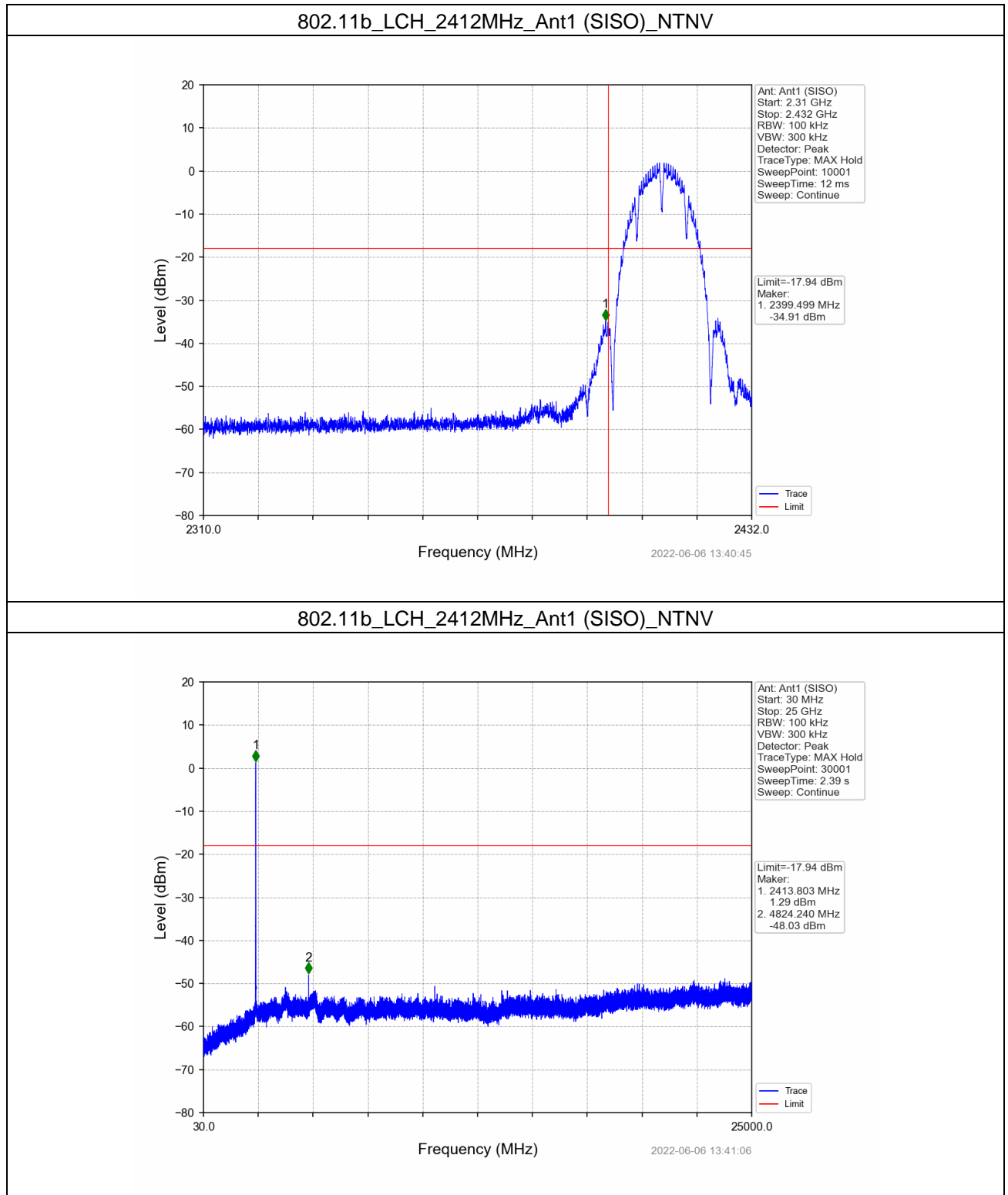
5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.06	-17.94	Pass
		2437	1	2.06	-17.94	Pass
		2462	1	2.06	-17.94	Pass
802.11g	SISO	2412	1	-5.73	-25.73	Pass
		2437	1	-5.73	-25.73	Pass
		2462	1	-5.73	-25.73	Pass
802.11n (HT20)	SISO	2412	1	-5.49	-25.49	Pass
		2437	1	-5.49	-25.49	Pass
		2462	1	-5.49	-25.49	Pass
802.11n (HT40)	SISO	2422	1	-9.64	-29.64	Pass
		2437	1	-9.64	-29.64	Pass
		2452	1	-9.64	-29.64	Pass

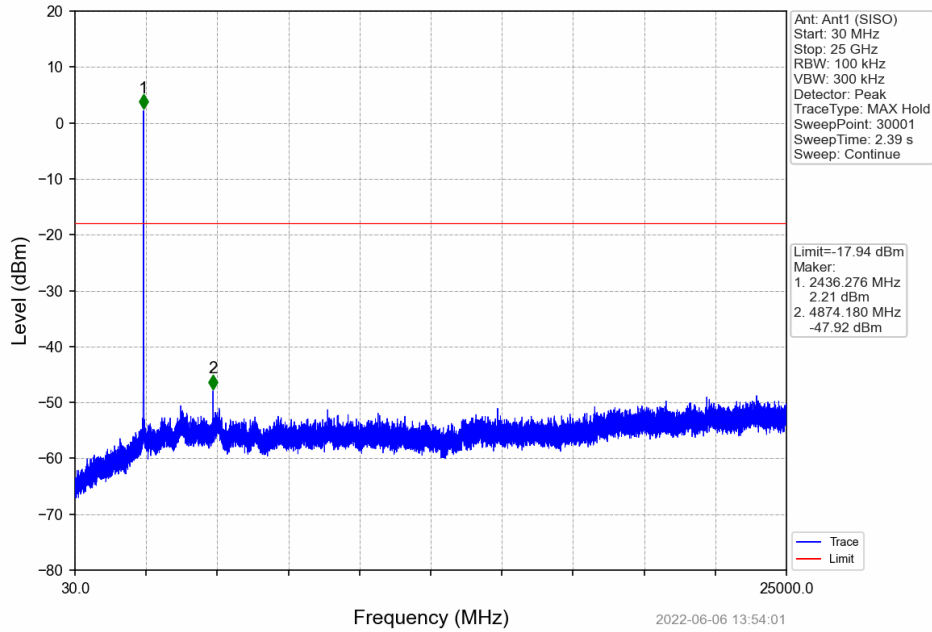
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

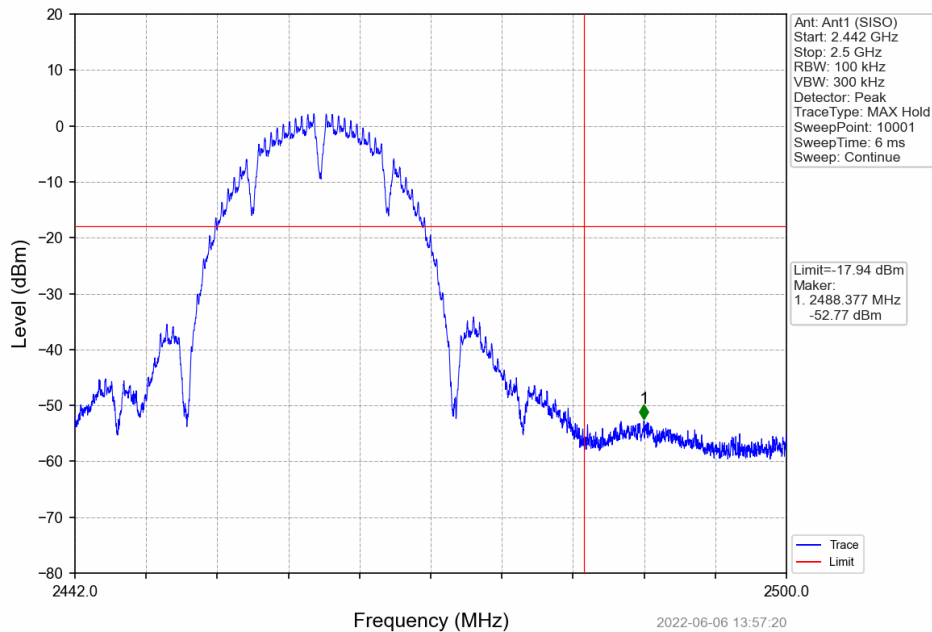
5.2.2 Test Graph



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV

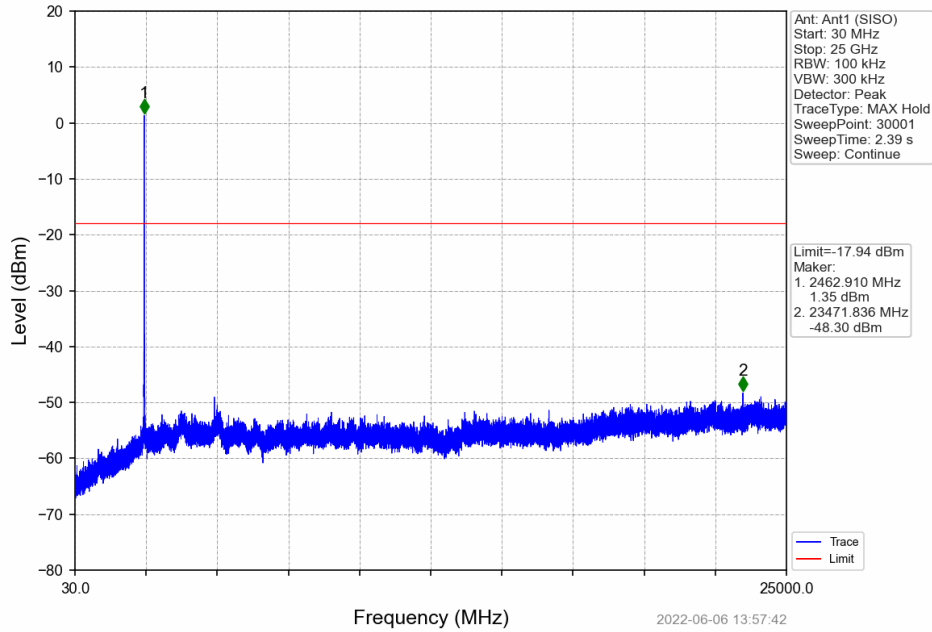


802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

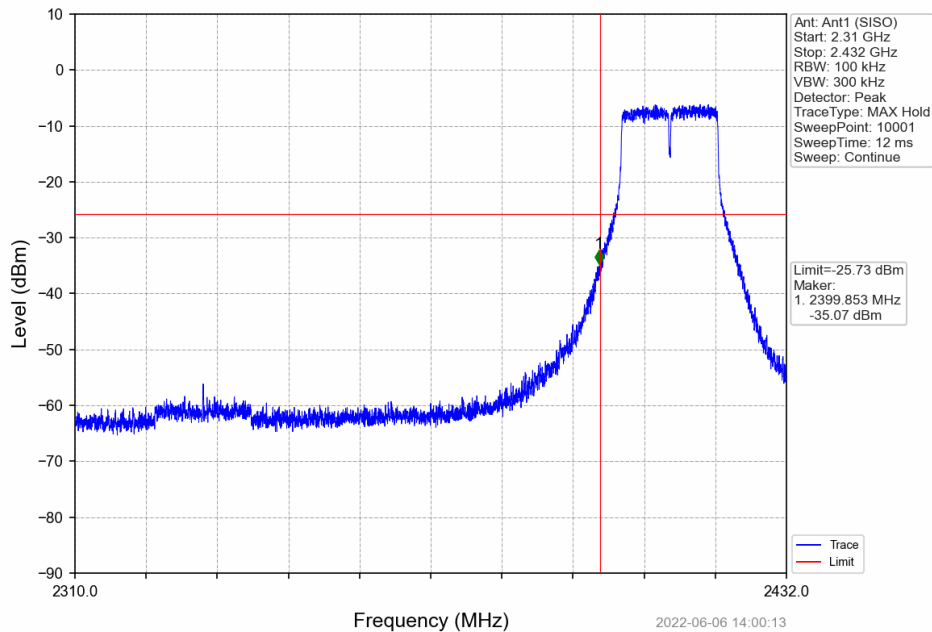


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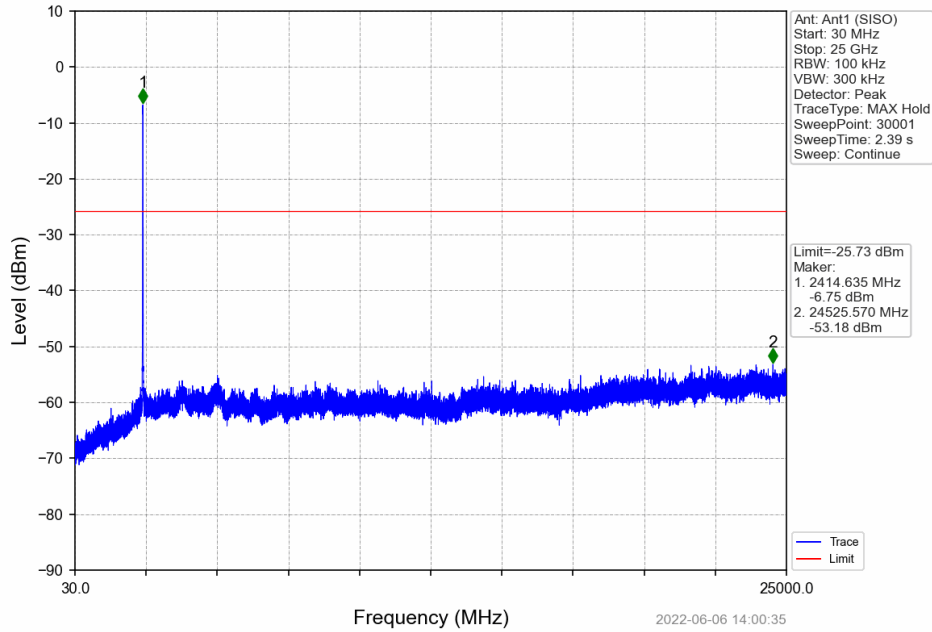
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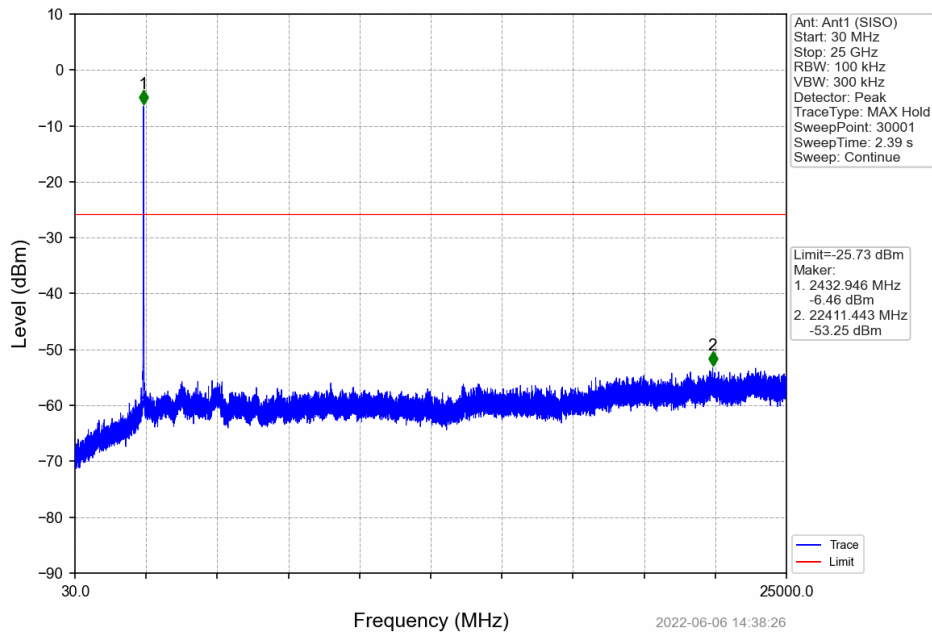
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



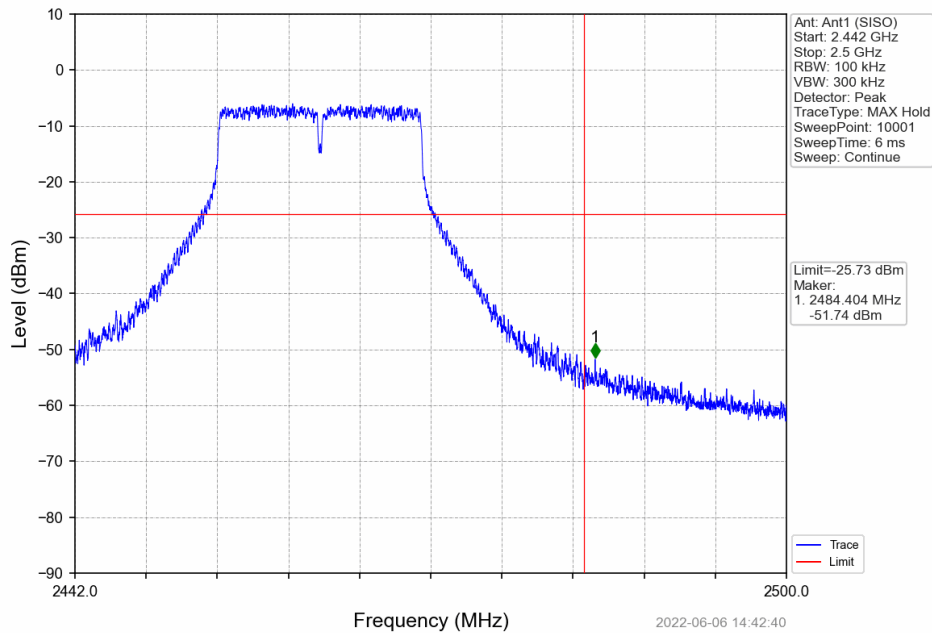
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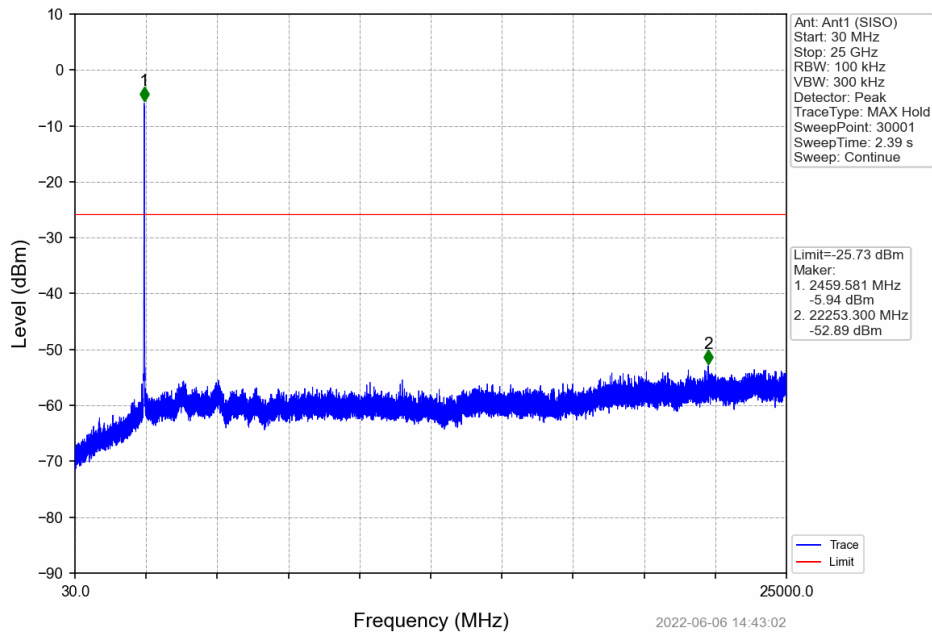
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



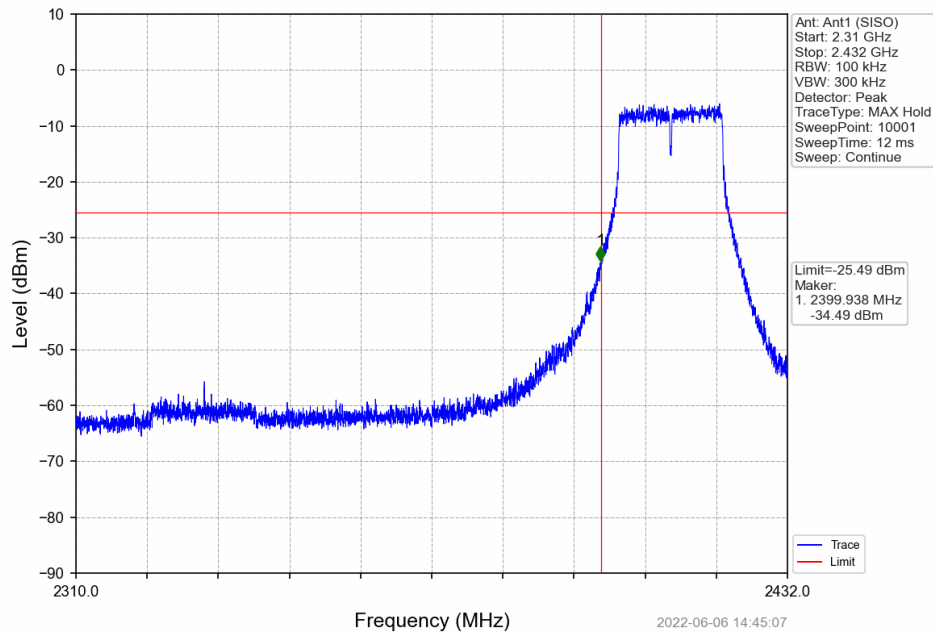
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



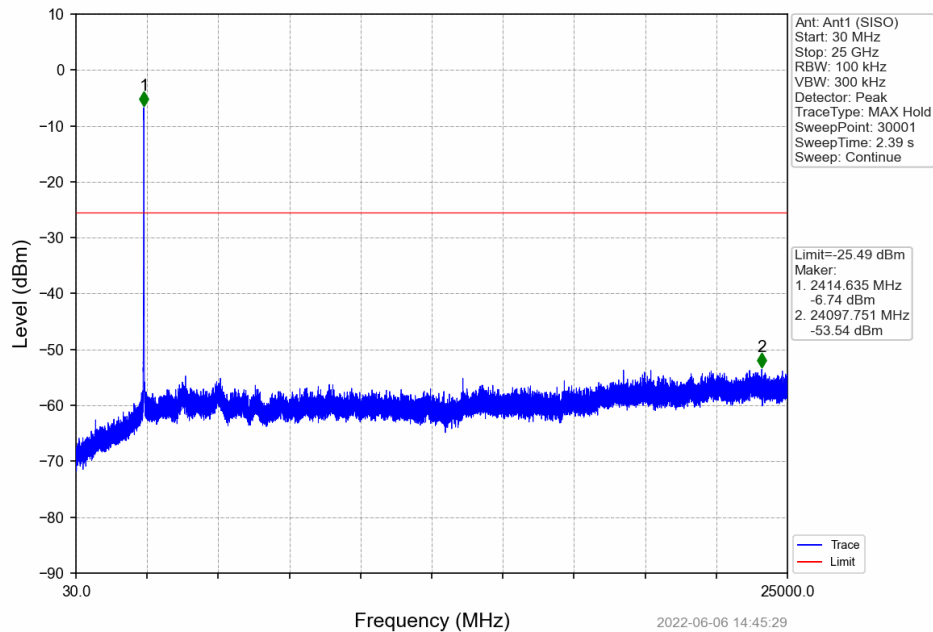
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

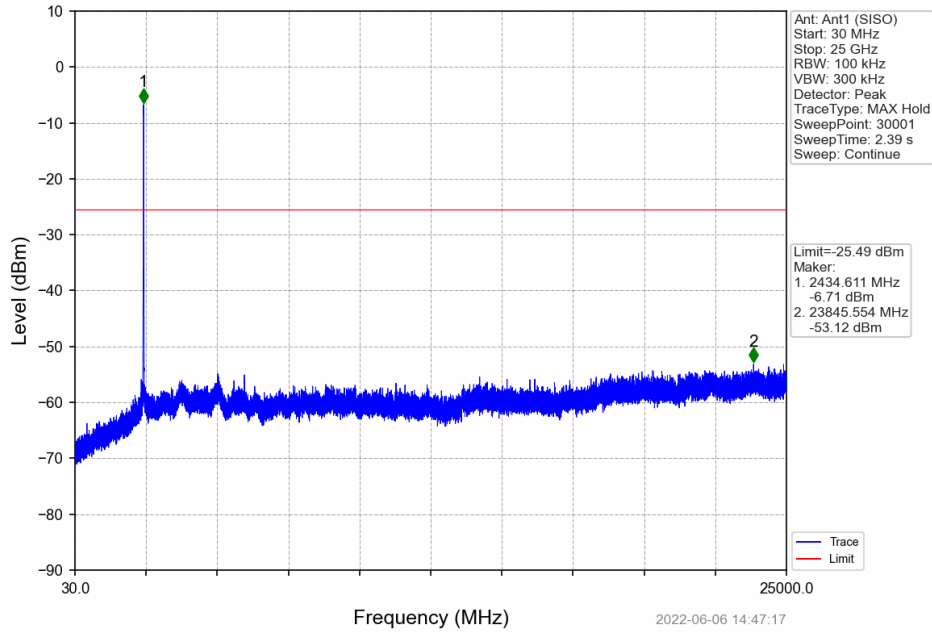


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

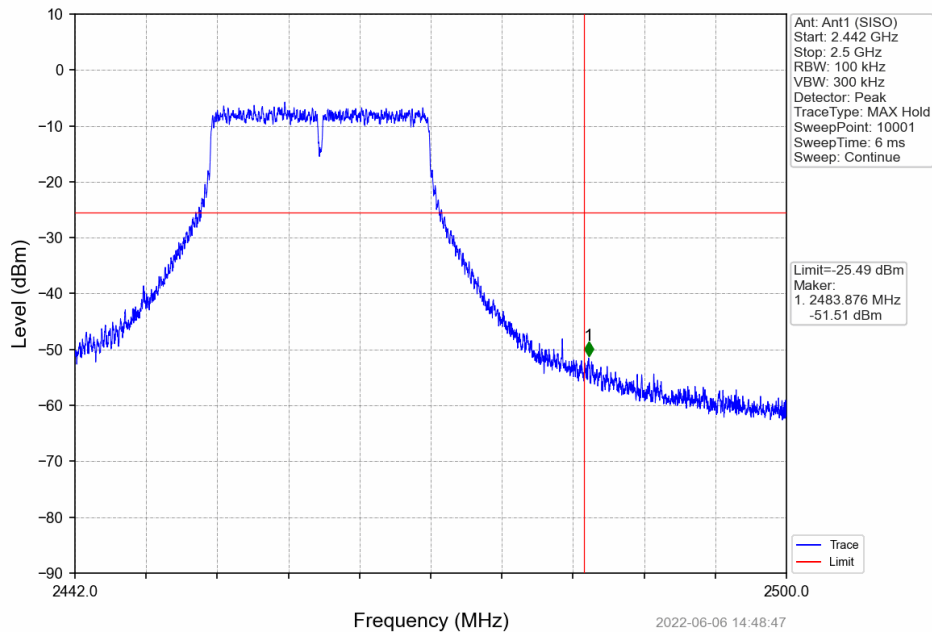


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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



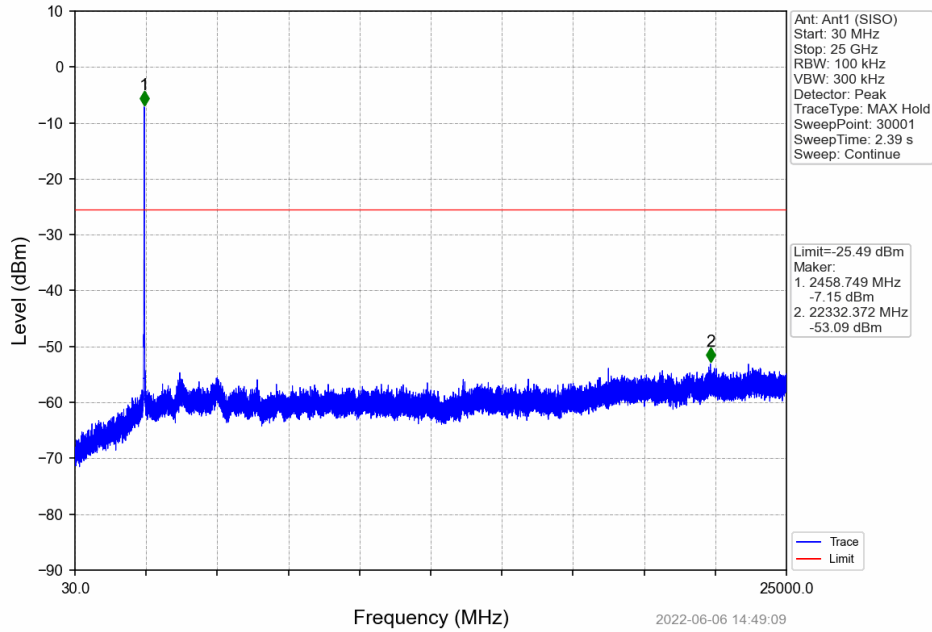
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



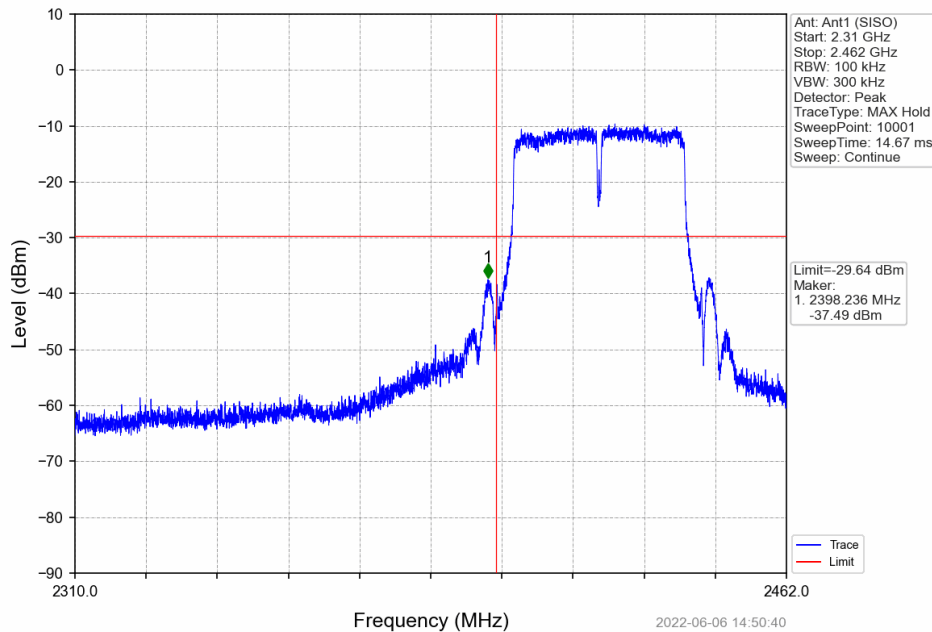
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

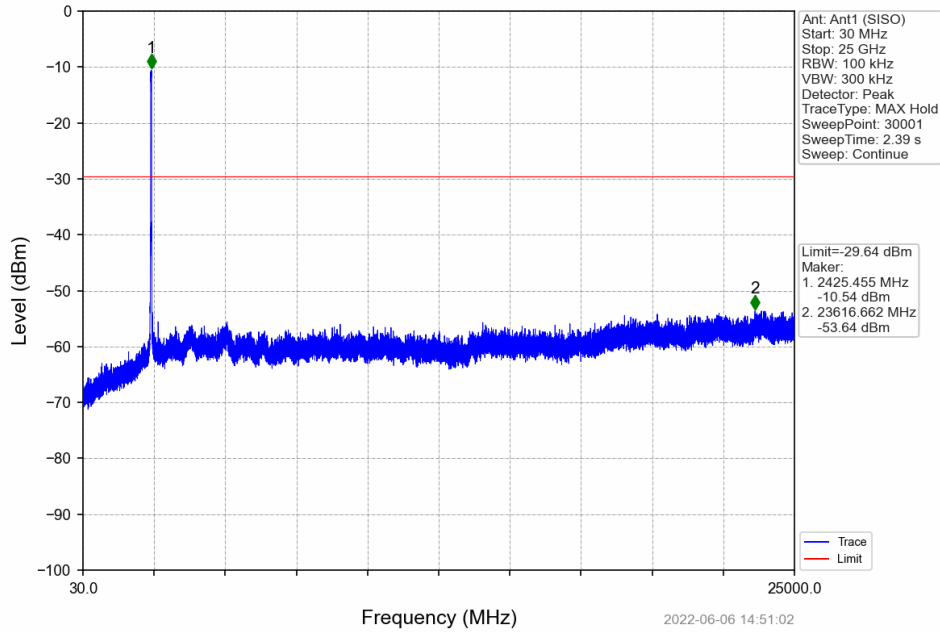


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

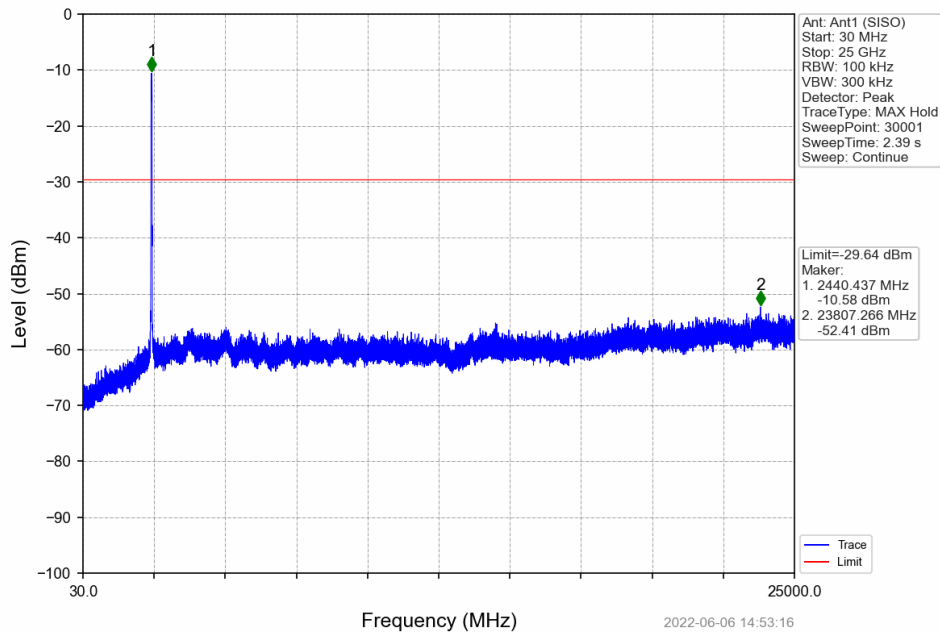


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

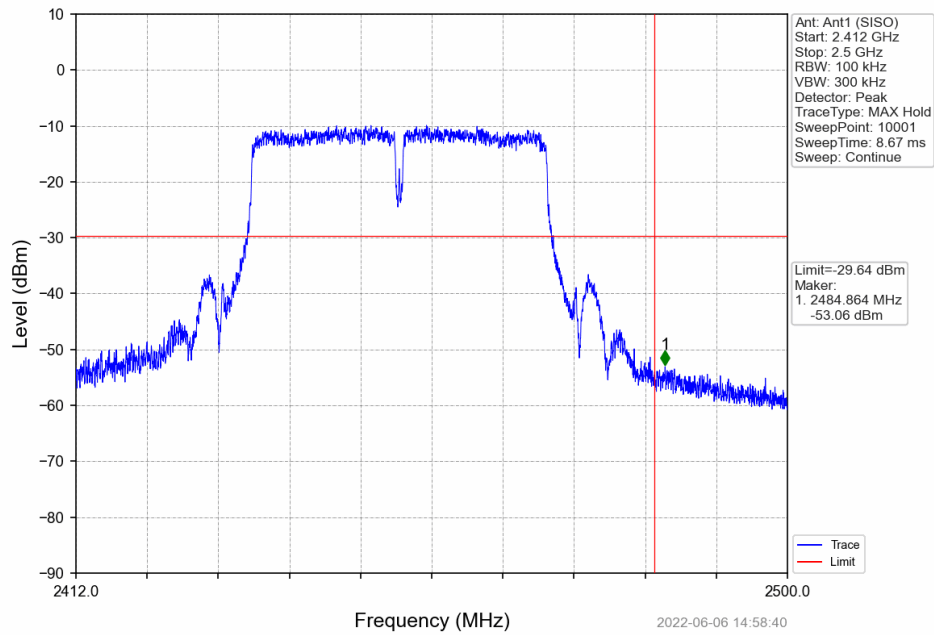


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

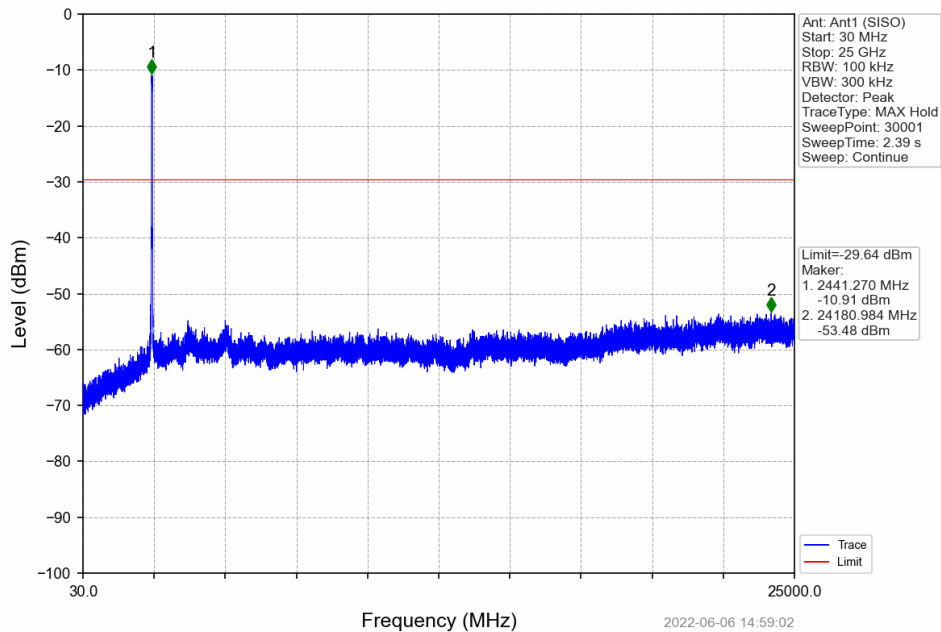


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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



- End of the Report -



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