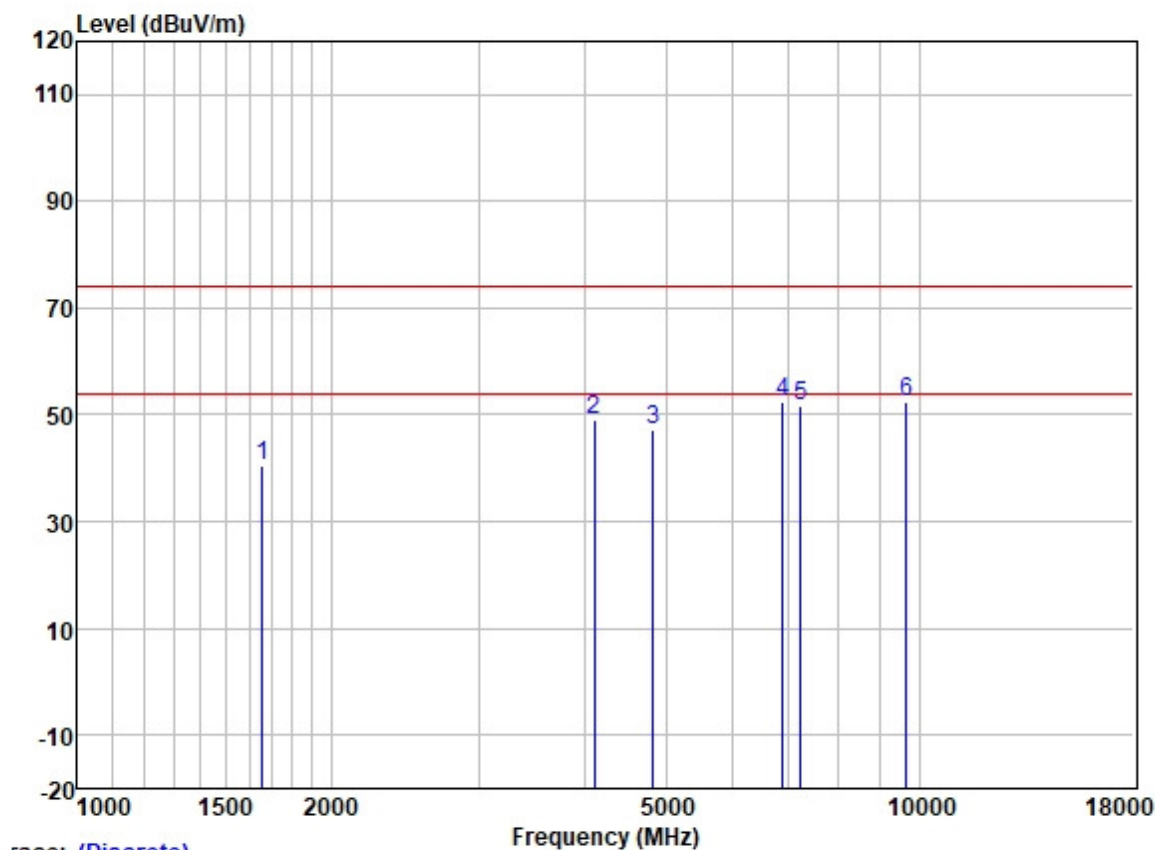


Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



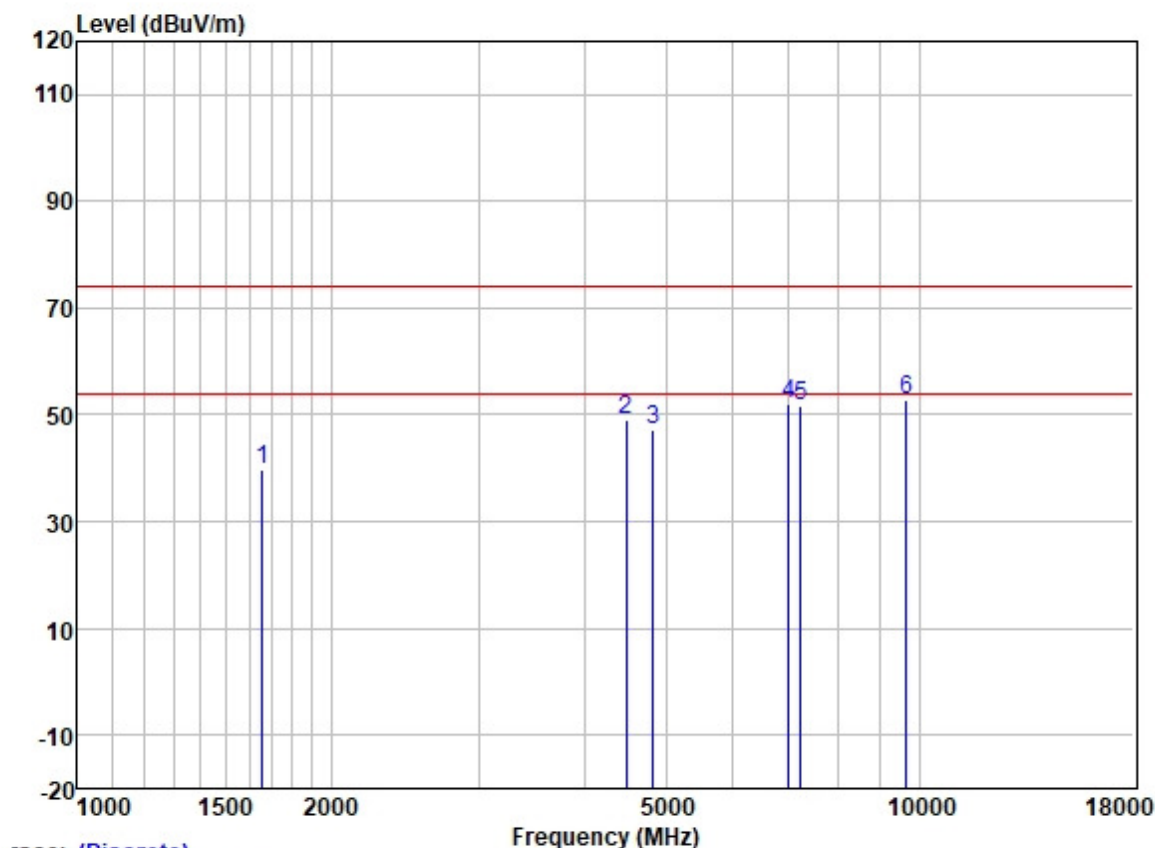
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	Remark
1	1658.337	49.95	25.65	2.80	37.93	40.47	74.00	-33.53	HORIZONTAL Peak
2	4109.872	51.22	29.96	4.60	36.80	48.98	74.00	-25.02	HORIZONTAL Peak
3	4824.000	47.09	31.45	5.42	36.83	47.13	74.00	-26.87	HORIZONTAL Peak
4	6874.906	48.94	34.82	5.82	37.16	52.42	74.00	-21.58	HORIZONTAL Peak
5	7236.000	47.49	35.70	6.03	37.39	51.83	74.00	-22.17	HORIZONTAL Peak
6	9648.000	44.46	38.40	7.06	37.42	52.50	74.00	-21.50	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: Low



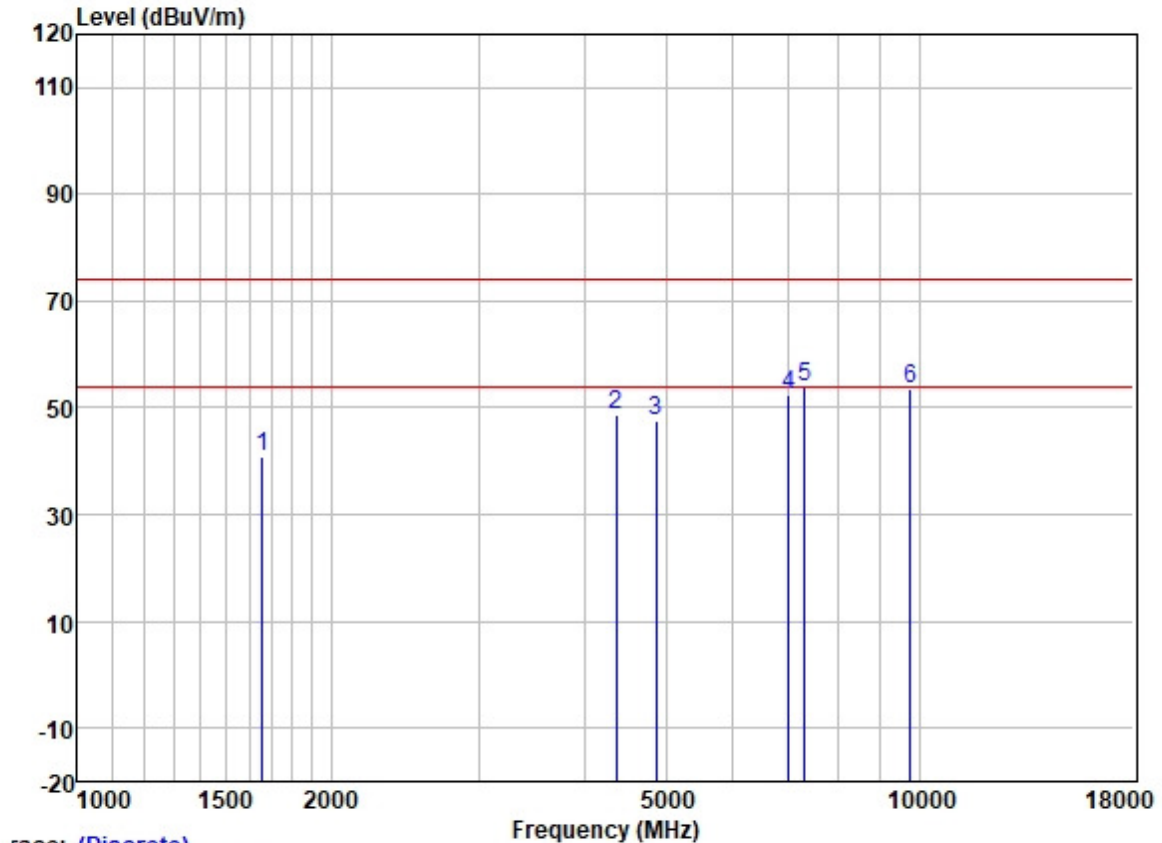
Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1658.337	49.37	25.65	2.80	37.93	39.89	74.00	-34.11 VERTICAL	Peak
2	4482.150	50.06	30.78	4.99	36.81	49.02	74.00	-24.98 VERTICAL	Peak
3	4824.000	47.33	31.45	5.42	36.83	47.37	74.00	-26.63 VERTICAL	Peak
4	6995.172	48.60	35.00	5.81	37.25	52.16	74.00	-21.84 VERTICAL	Peak
5	7236.000	47.39	35.70	6.03	37.39	51.73	74.00	-22.27 VERTICAL	Peak
6	9648.000	44.65	38.40	7.06	37.42	52.69	74.00	-21.31 VERTICAL	Peak



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Test Mode: 04; Polarity: Horizontal; Modulation: 802.11g; Bandwidth: 20MHz; Channel: middle



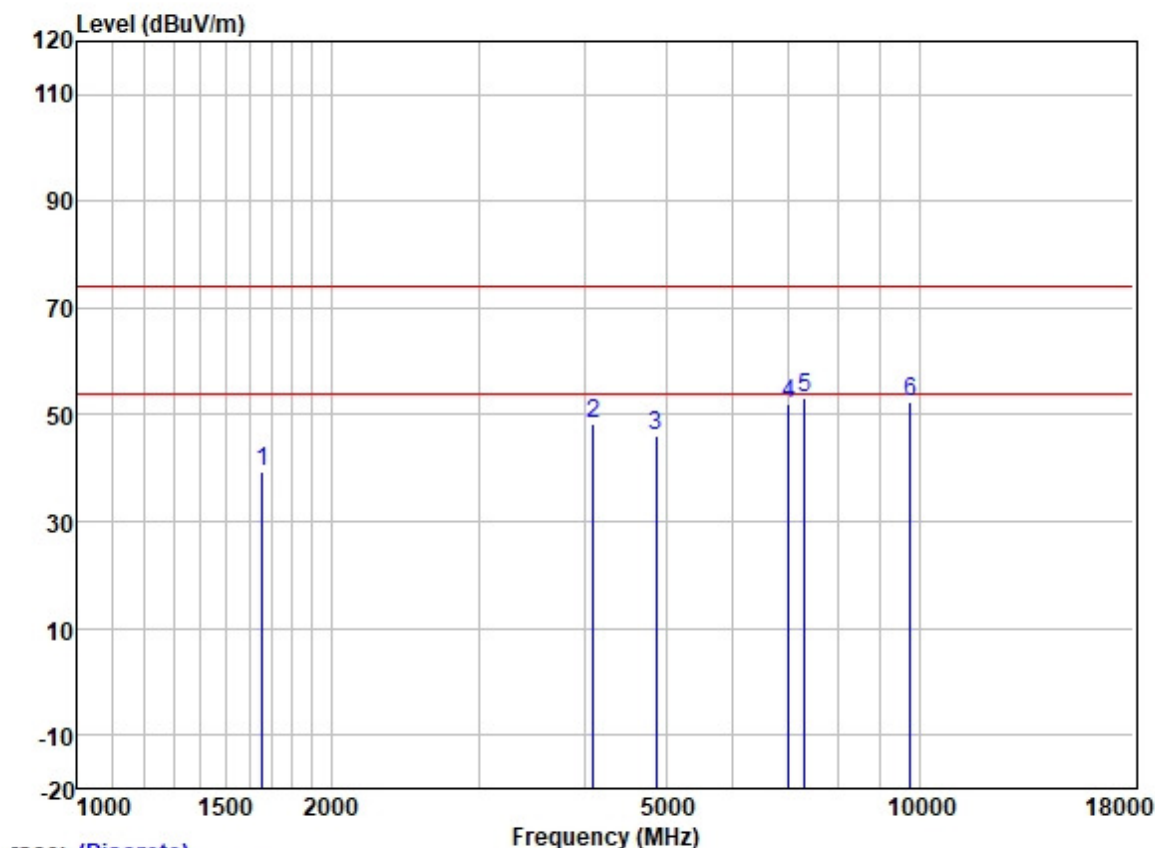
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	50.40	25.65	2.80	37.93	40.92	74.00	-33.08	HORIZONTAL Peak
2	4367.058	50.25	30.62	4.68	36.81	48.74	74.00	-25.26	HORIZONTAL Peak
3	4874.000	47.36	31.54	5.50	36.84	47.56	74.00	-26.44	HORIZONTAL Peak
4	6995.172	48.68	35.00	5.81	37.25	52.24	74.00	-21.76	HORIZONTAL Peak
5	7311.000	49.12	35.93	6.11	37.42	53.74	74.00	-20.26	HORIZONTAL Peak
6	9748.000	45.39	38.50	7.02	37.41	53.50	74.00	-20.50	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: middle

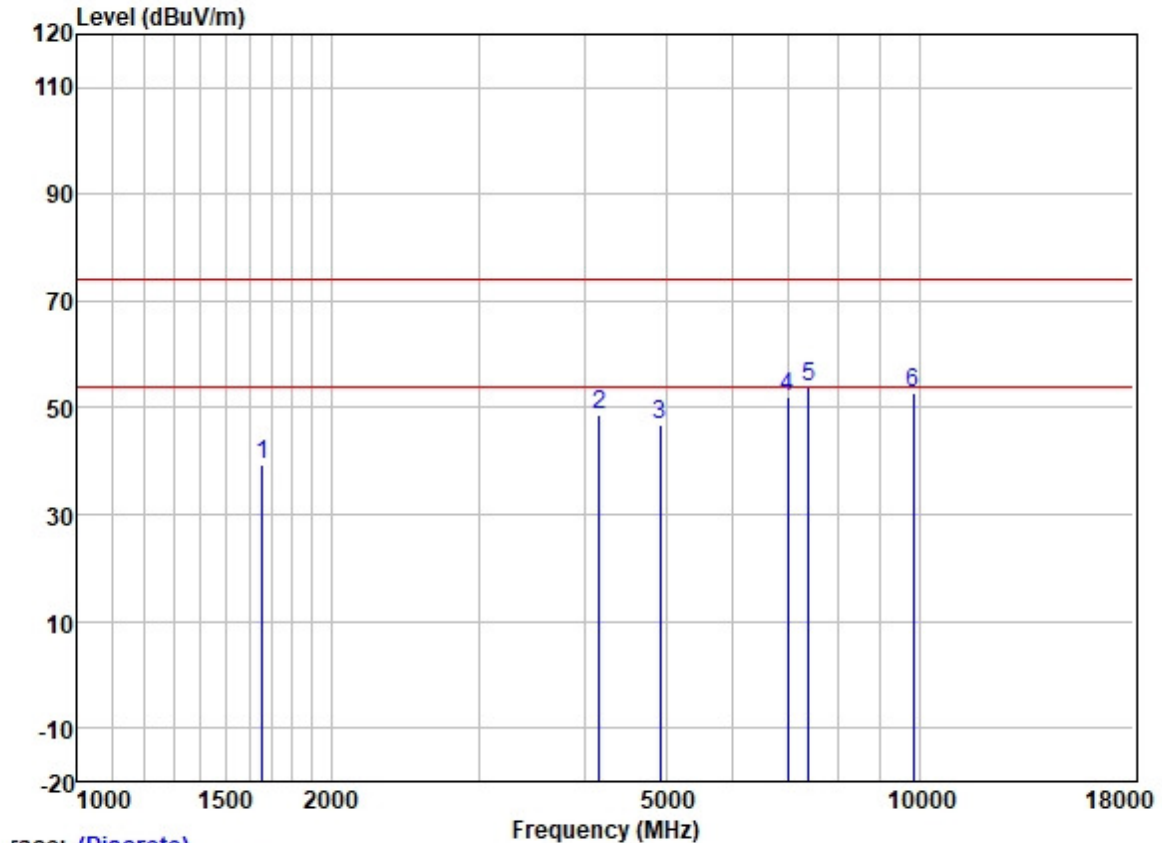


	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	48.80	25.65	2.80	37.93	39.32	74.00	-34.68	VERTICAL Peak
2	4098.010	50.40	29.94	4.60	36.80	48.14	74.00	-25.86	VERTICAL Peak
3	4874.000	46.02	31.54	5.50	36.84	46.22	74.00	-27.78	VERTICAL Peak
4	6995.172	48.54	35.00	5.81	37.25	52.10	74.00	-21.90	VERTICAL Peak
5	7311.000	48.42	35.93	6.11	37.42	53.04	74.00	-20.96	VERTICAL Peak
6	9748.000	44.36	38.50	7.02	37.41	52.47	74.00	-21.53	VERTICAL Peak



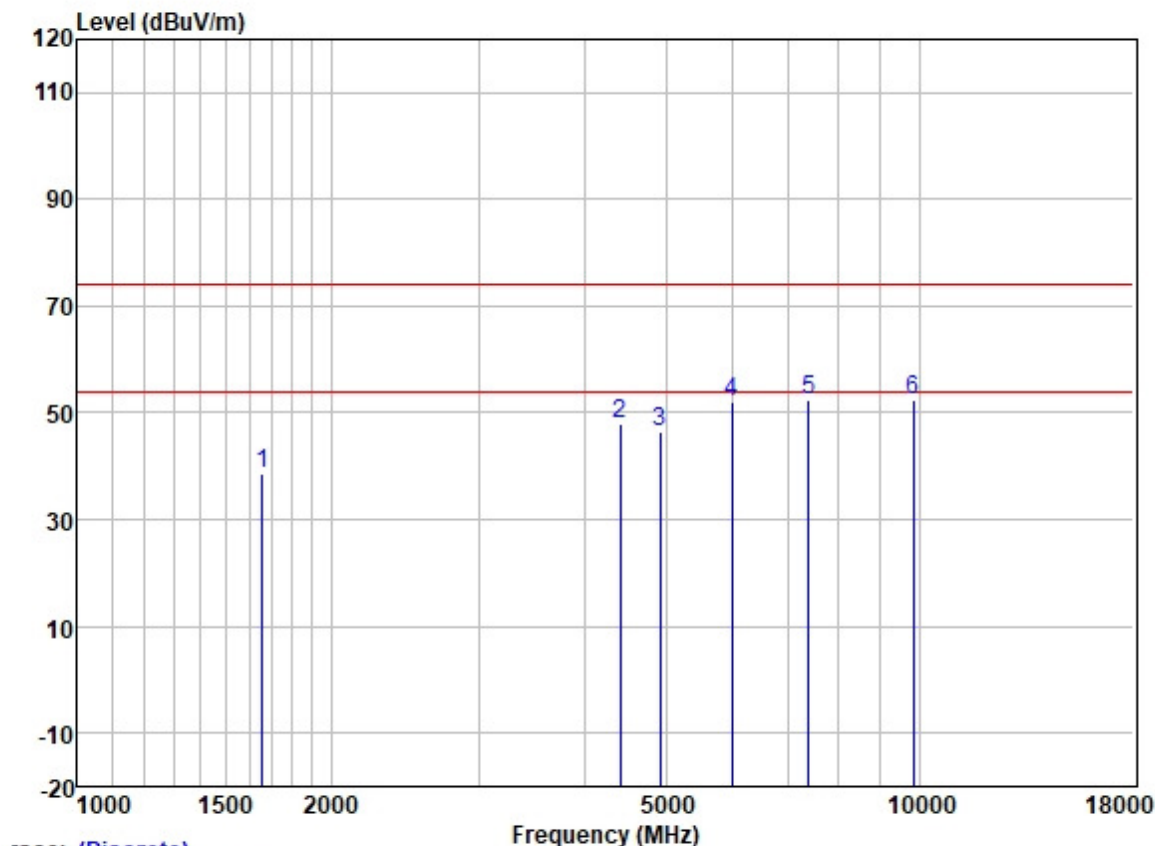
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	48.90	25.65	2.80	37.93	39.42	74.00	-34.58	HORIZONTAL Peak
2	4169.698	50.86	30.09	4.60	36.80	48.75	74.00	-25.25	HORIZONTAL Peak
3	4924.000	46.63	31.62	5.60	36.84	47.01	74.00	-26.99	HORIZONTAL Peak
4	6974.982	48.59	34.97	5.81	37.23	52.14	74.00	-21.86	HORIZONTAL Peak
5	7386.000	48.84	36.17	6.19	37.45	53.75	74.00	-20.25	HORIZONTAL Peak
6	9848.000	44.54	38.58	6.99	37.41	52.70	74.00	-21.30	HORIZONTAL Peak

Test Mode: 04; Polarity: Vertical; Modulation: 802.11g; Bandwidth: 20MHz; Channel: High



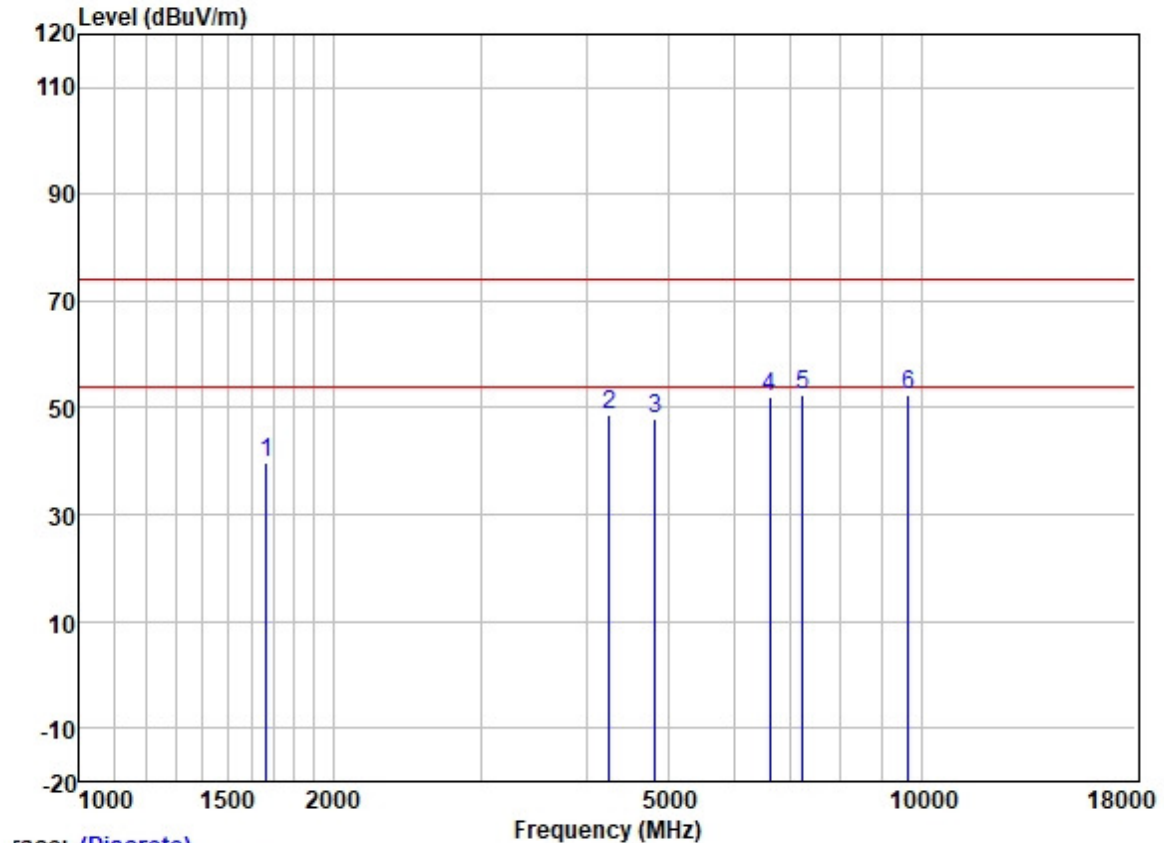
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1658.337	48.08	25.65	2.80	37.93	38.60	74.00	-35.40	VERTICAL Peak
2	4417.841	49.31	30.70	4.74	36.81	47.94	74.00	-26.06	VERTICAL Peak
3	4924.000	46.13	31.62	5.60	36.84	46.51	74.00	-27.49	VERTICAL Peak
4	5984.305	50.26	32.39	6.15	36.90	51.90	74.00	-22.10	VERTICAL Peak
5	7386.000	47.69	36.17	6.19	37.45	52.60	74.00	-21.40	VERTICAL Peak
6	9848.000	44.27	38.58	6.99	37.41	52.43	74.00	-21.57	VERTICAL Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low

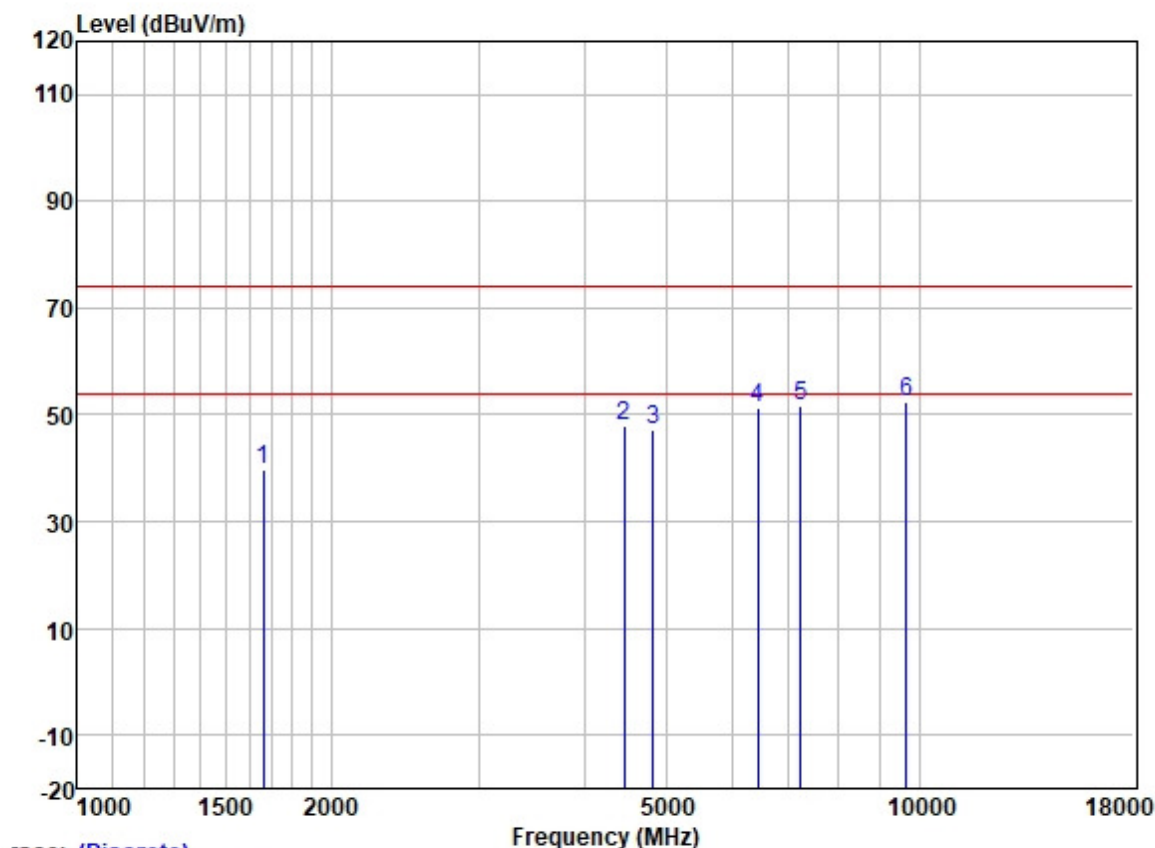


	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1667.951	49.15	25.66	2.80	37.91	39.70	74.00	-34.30	HORIZONTAL Peak
2	4254.921	50.63	30.34	4.62	36.81	48.78	74.00	-25.22	HORIZONTAL Peak
3	4824.000	48.04	31.45	5.42	36.83	48.08	74.00	-25.92	HORIZONTAL Peak
4	6602.265	49.02	34.16	5.84	37.04	51.98	74.00	-22.02	HORIZONTAL Peak
5	7236.000	47.97	35.70	6.03	37.39	52.31	74.00	-21.69	HORIZONTAL Peak
6	9648.000	44.43	38.40	7.06	37.42	52.47	74.00	-21.53	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: Low



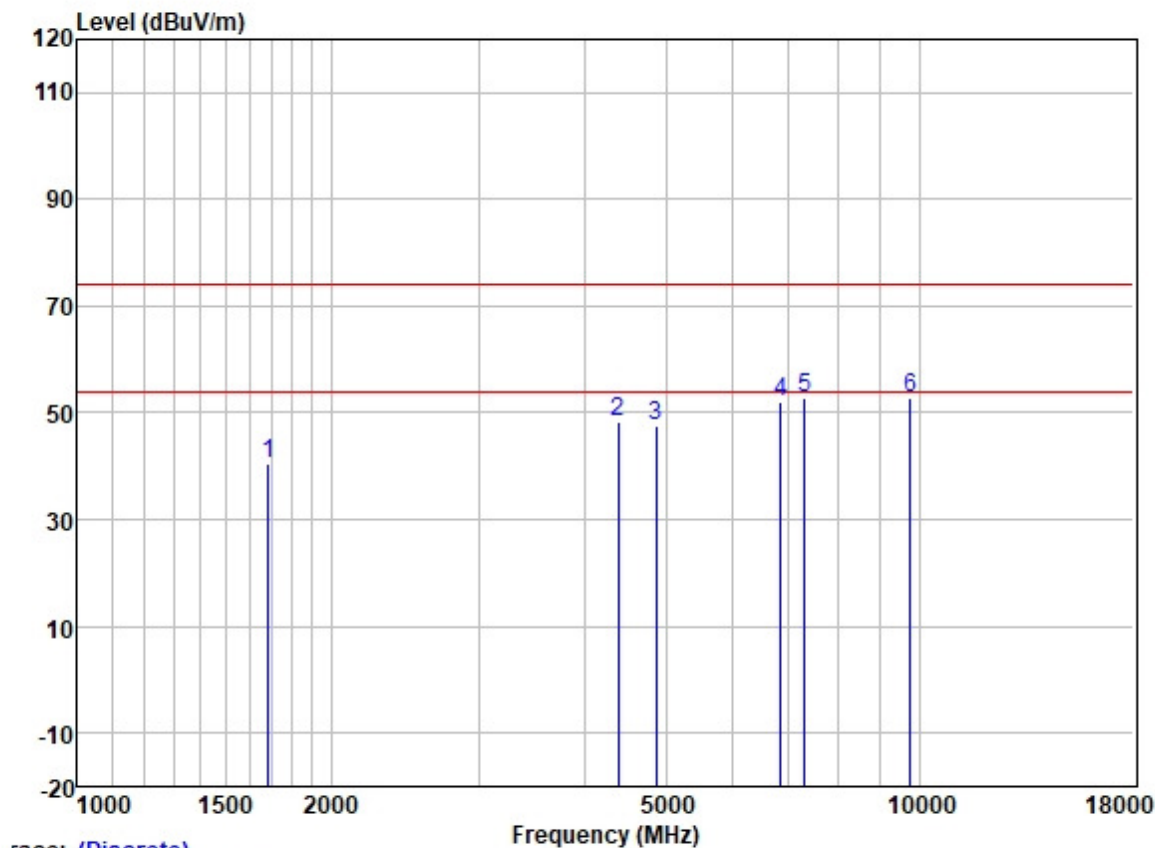
	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1663.137	49.07	25.65	2.80	37.91	39.61	74.00	-34.39	VERTICAL Peak
2	4456.315	49.13	30.75	4.88	36.81	47.95	74.00	-26.05	VERTICAL Peak
3	4824.000	47.09	31.45	5.42	36.83	47.13	74.00	-26.87	VERTICAL Peak
4	6432.732	48.77	33.83	5.88	36.99	51.49	74.00	-22.51	VERTICAL Peak
5	7236.000	47.52	35.70	6.03	37.39	51.86	74.00	-22.14	VERTICAL Peak
6	9648.000	44.22	38.40	7.06	37.42	52.26	74.00	-21.74	VERTICAL Peak



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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle

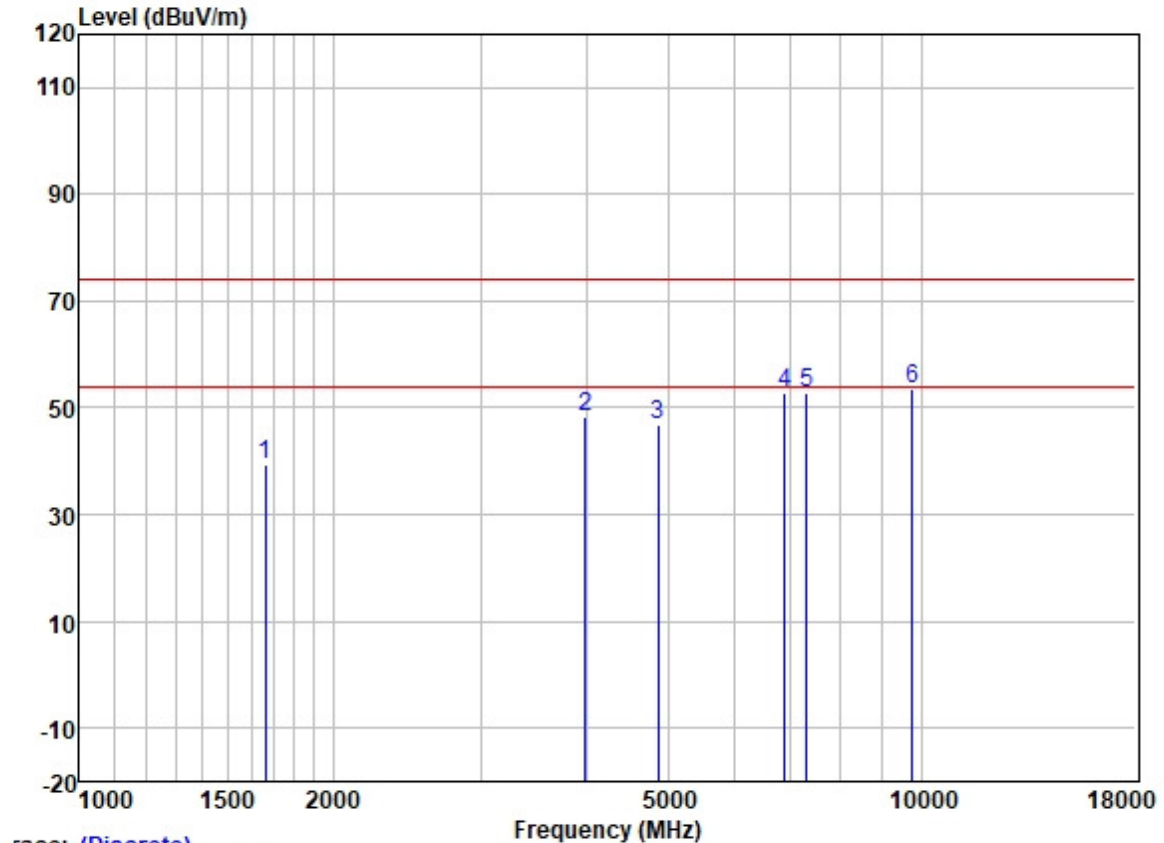


	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	49.95	25.69	2.80	37.91	40.53	74.00	-33.47	HORIZONTAL Peak
2	4392.376	49.70	30.66	4.70	36.81	48.25	74.00	-25.75	HORIZONTAL Peak
3	4874.000	47.20	31.54	5.50	36.84	47.40	74.00	-26.60	HORIZONTAL Peak
4	6855.063	48.43	34.78	5.82	37.15	51.88	74.00	-22.12	HORIZONTAL Peak
5	7311.000	48.20	35.93	6.11	37.42	52.82	74.00	-21.18	HORIZONTAL Peak
6	9748.000	44.65	38.50	7.02	37.41	52.76	74.00	-21.24	HORIZONTAL Peak



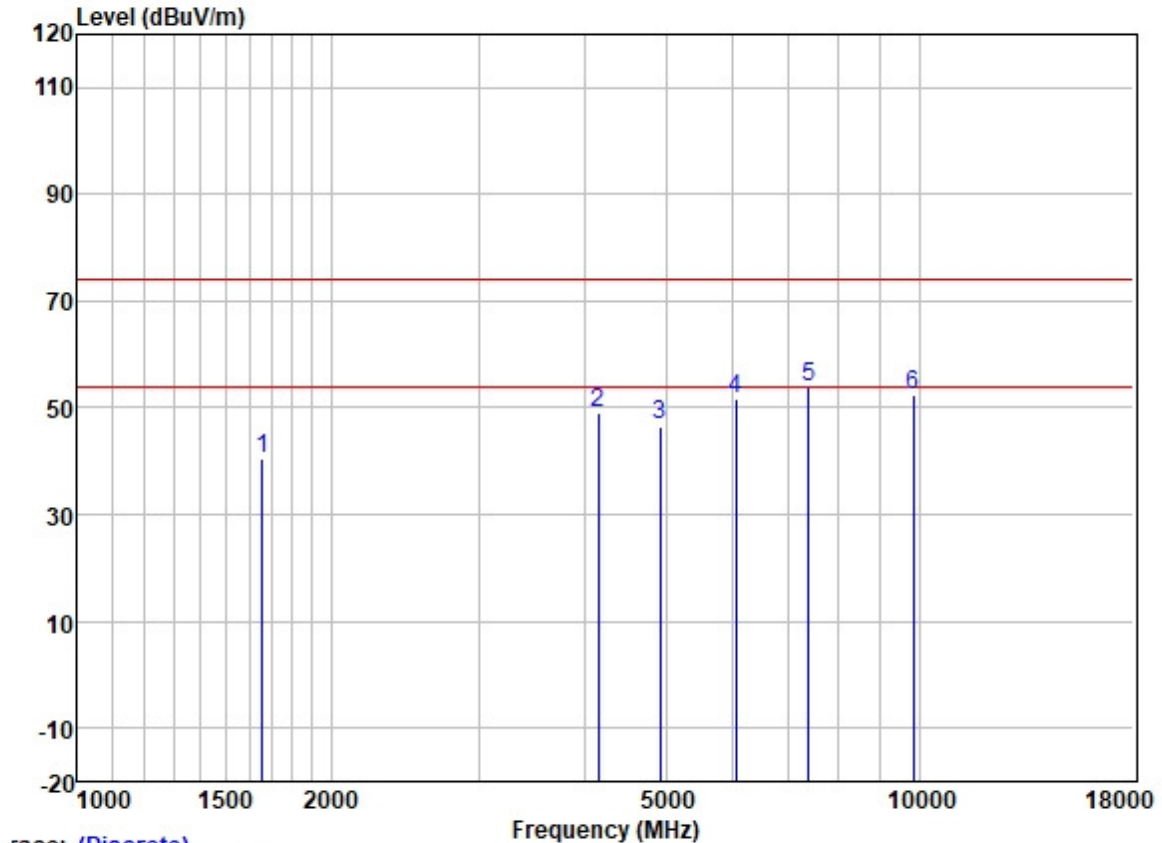
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Test Mode: 04; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
		Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1663.137	48.98	25.65	2.80	37.91	39.52	74.00	-34.48 VERTICAL	Peak
2	3992.781	50.72	29.79	4.60	36.80	48.31	74.00	-25.69 VERTICAL	Peak
3	4874.000	46.49	31.54	5.50	36.84	46.69	74.00	-27.31 VERTICAL	Peak
4	6874.906	49.25	34.82	5.82	37.16	52.73	74.00	-21.27 VERTICAL	Peak
5	7311.000	48.30	35.93	6.11	37.42	52.92	74.00	-21.08 VERTICAL	Peak
6	9748.000	45.44	38.50	7.02	37.41	53.55	74.00	-20.45 VERTICAL	Peak

Test Mode: 04; Polarity: Horizontal; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



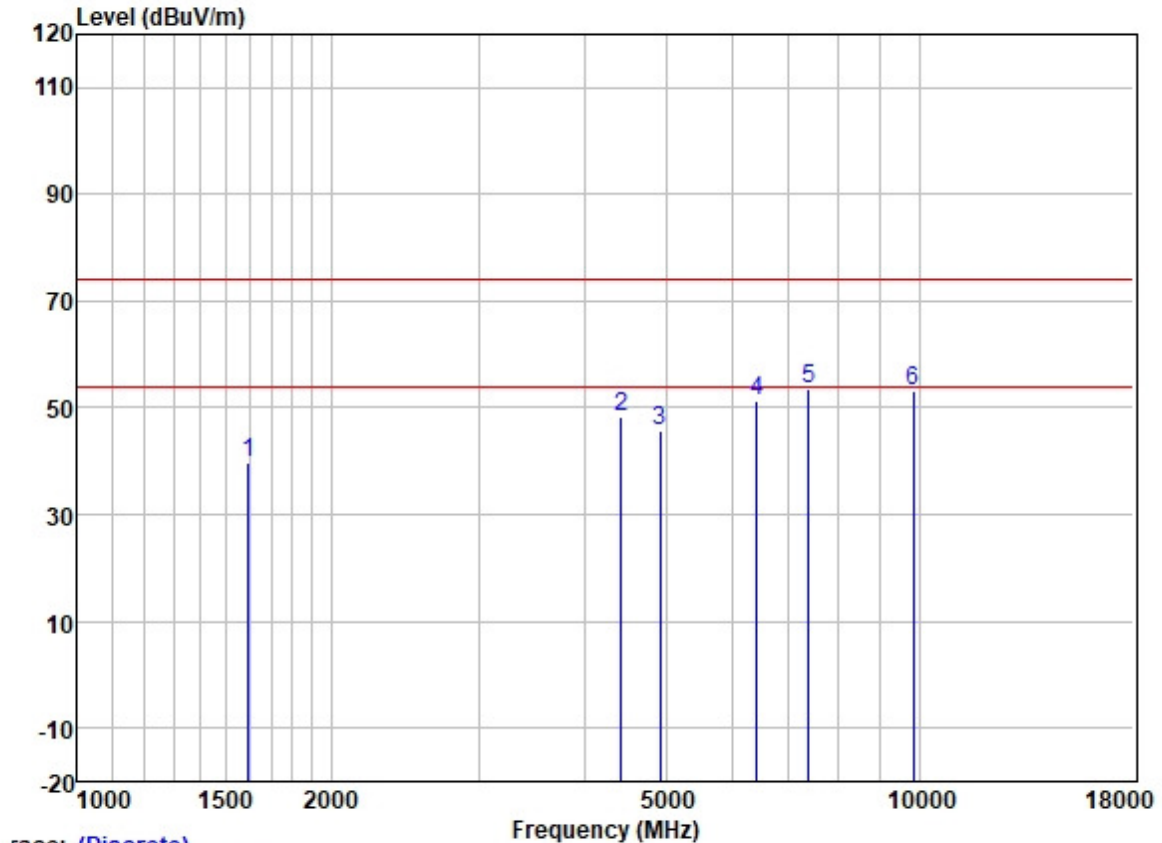
	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1658.337	50.02	25.65	2.80	37.93	40.54	74.00	-33.46	HORIZONTAL Peak
2	4157.664	51.29	30.06	4.60	36.80	49.15	74.00	-24.85	HORIZONTAL Peak
3	4924.000	46.26	31.62	5.60	36.84	46.64	74.00	-27.36	HORIZONTAL Peak
4	6053.894	49.93	32.52	6.17	36.91	51.71	74.00	-22.29	HORIZONTAL Peak
5	7386.000	49.05	36.17	6.19	37.45	53.96	74.00	-20.04	HORIZONTAL Peak
6	9848.000	44.37	38.58	6.99	37.41	52.53	74.00	-21.47	HORIZONTAL Peak



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Test Mode: 04; Polarity: Vertical; Modulation: 802.11n; Bandwidth: 20MHz; Channel: High



	ReadAntenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1597.181	49.29	25.58	2.80	37.98	39.69	74.00	-34.31	VERTICAL Peak
2	4430.628	49.63	30.72	4.78	36.81	48.32	74.00	-25.68	VERTICAL Peak
3	4924.000	45.33	31.62	5.60	36.84	45.71	74.00	-28.29	VERTICAL Peak
4	6414.167	48.69	33.79	5.89	36.99	51.38	74.00	-22.62	VERTICAL Peak
5	7386.000	48.48	36.17	6.19	37.45	53.39	74.00	-20.61	VERTICAL Peak
6	9848.000	45.09	38.58	6.99	37.41	53.25	74.00	-20.75	VERTICAL Peak



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## 8 Test Setup Photo

### Conducted Emissions at AC Power Line (150kHz-30MHz)



### Radiated Emissions which fall in the restricted bands



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## Radiated Spurious Emissions (Below 1GHz)



## Radiated Spurious Emissions (Above 1GHz)





## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2109021051AT

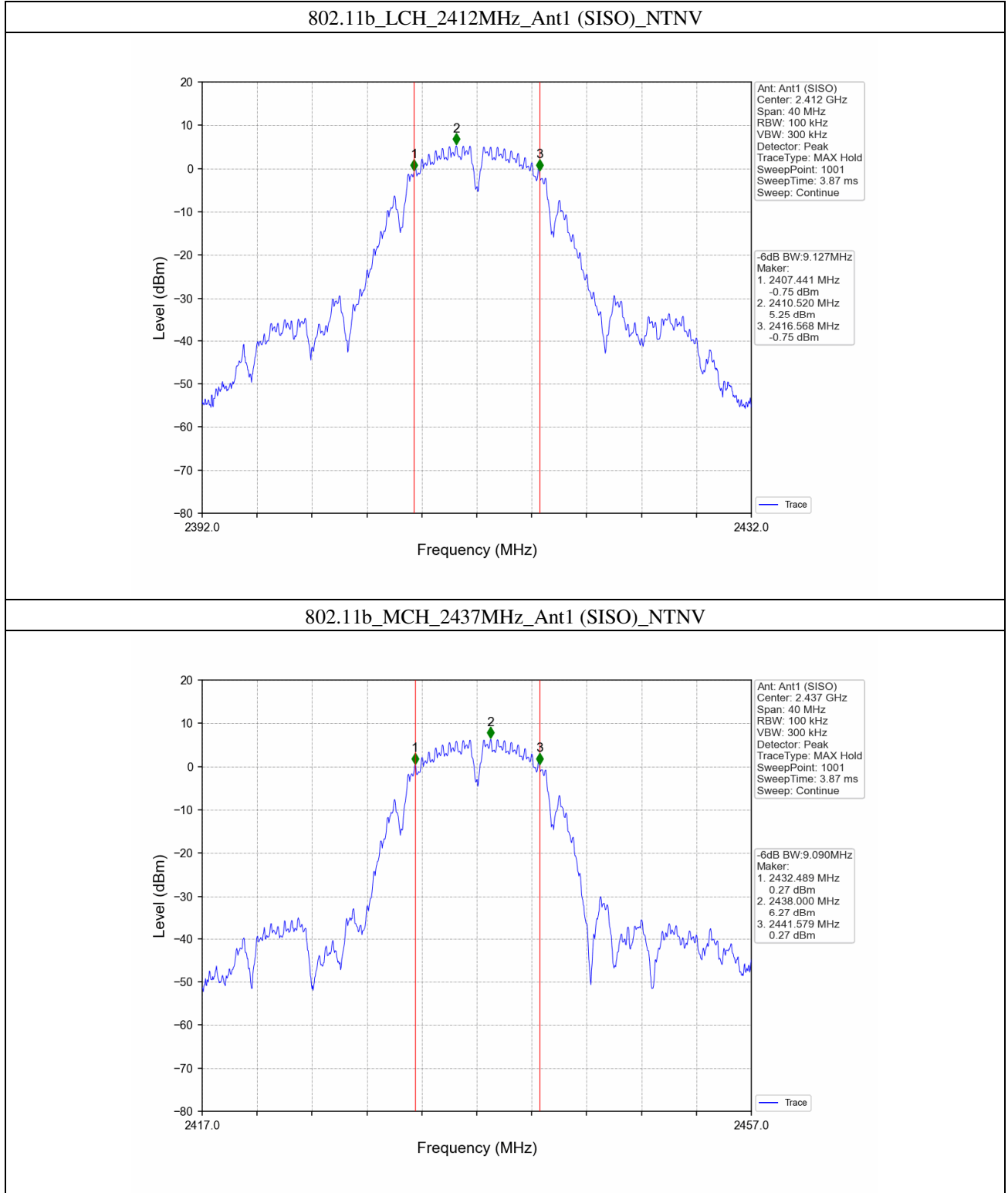
## 10 Appendix

### 1.1 6dB BW

#### 1.1.1 Test Result

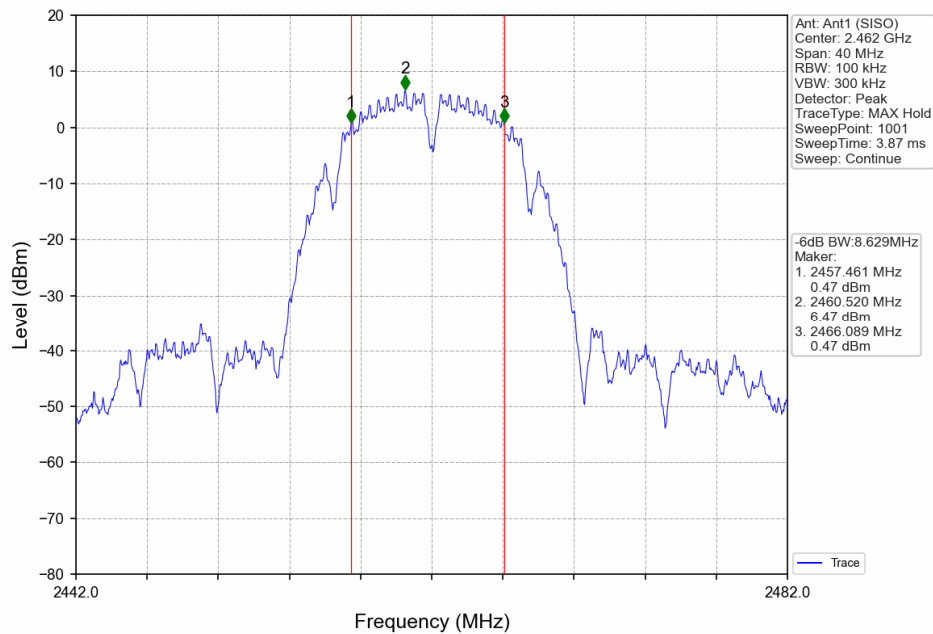
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.127	$\geq 0.5$	Pass
		2437	1	9.090	$\geq 0.5$	Pass
		2462	1	8.629	$\geq 0.5$	Pass
802.11g	SISO	2412	1	16.393	$\geq 0.5$	Pass
		2437	1	16.410	$\geq 0.5$	Pass
		2462	1	16.400	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	17.717	$\geq 0.5$	Pass
		2437	1	17.773	$\geq 0.5$	Pass
		2462	1	17.741	$\geq 0.5$	Pass

### 1.1.2 Test Graph

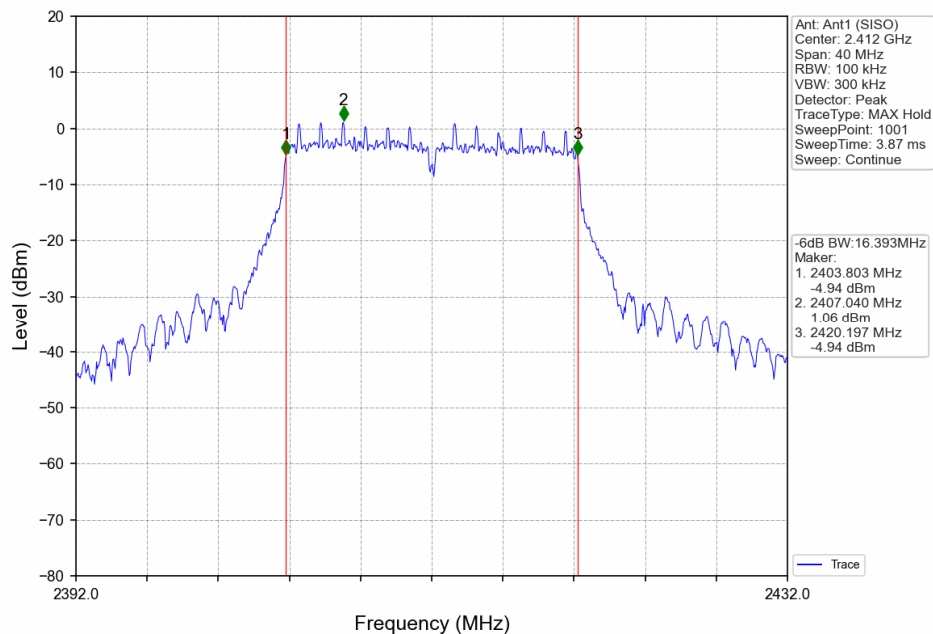




### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



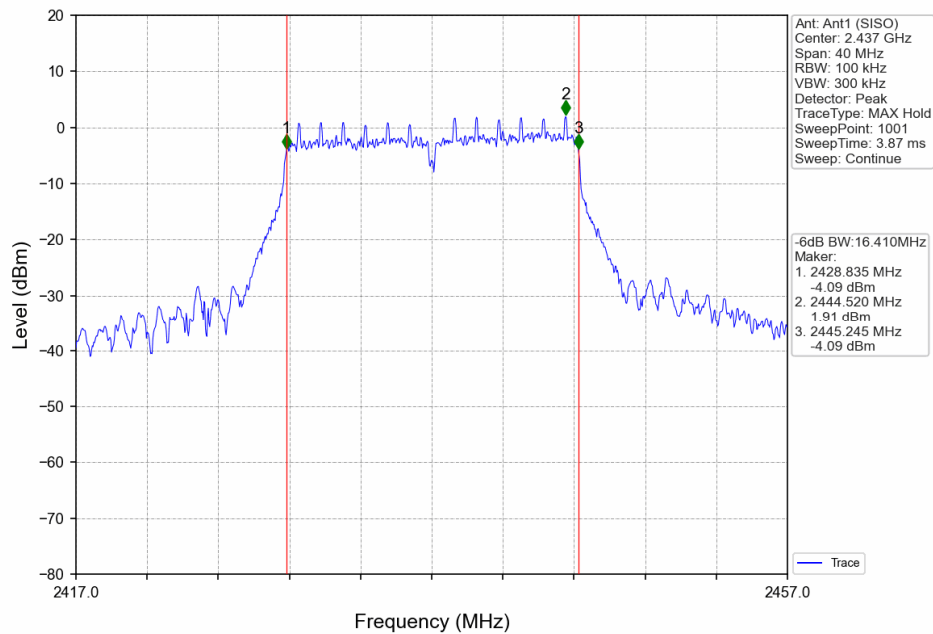
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



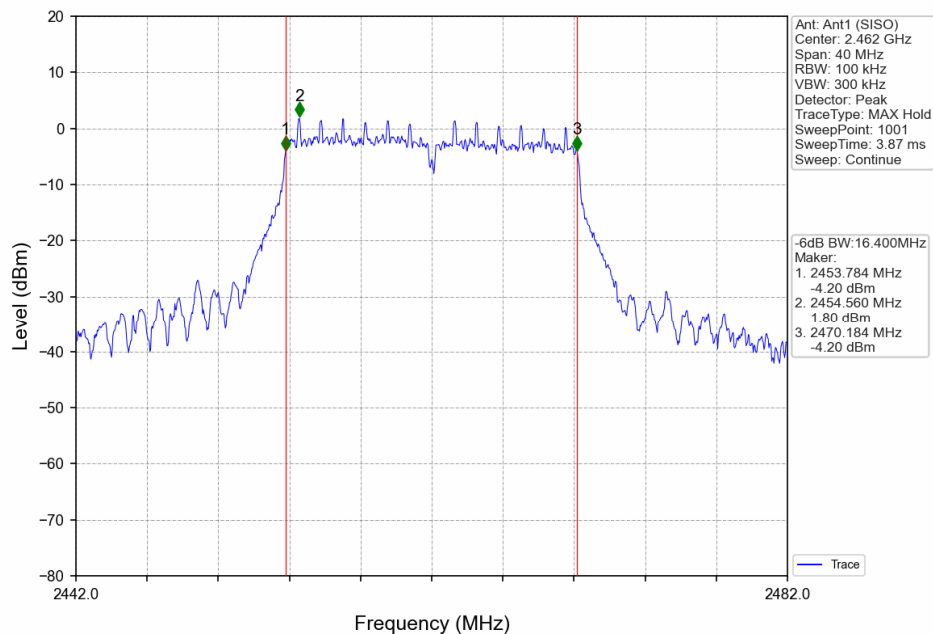
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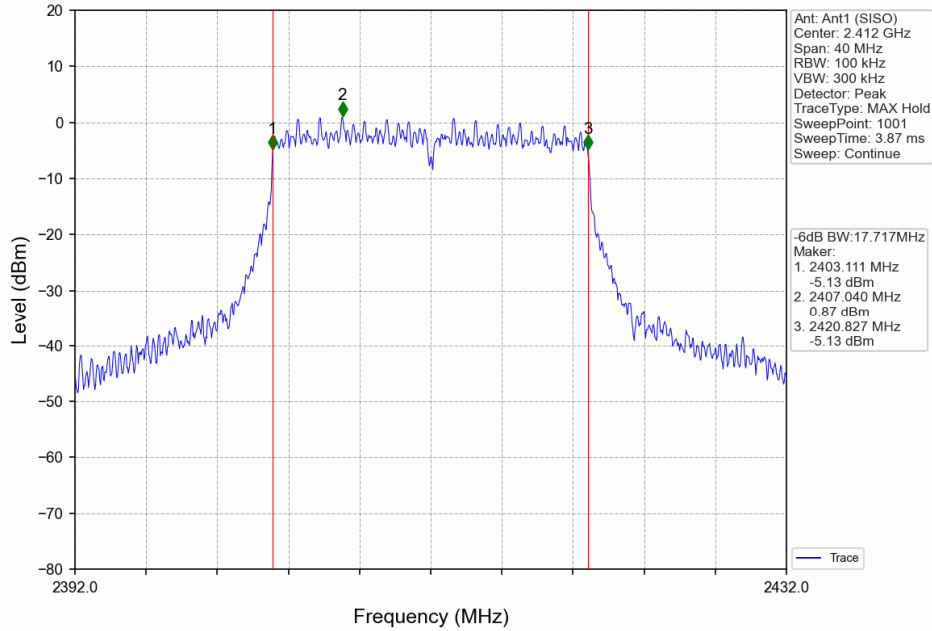
### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



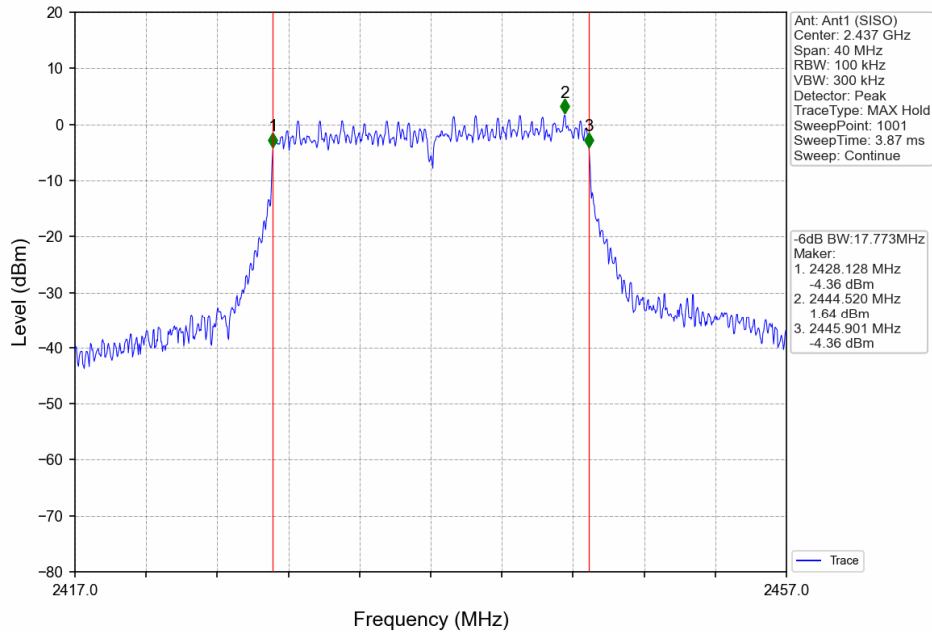
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

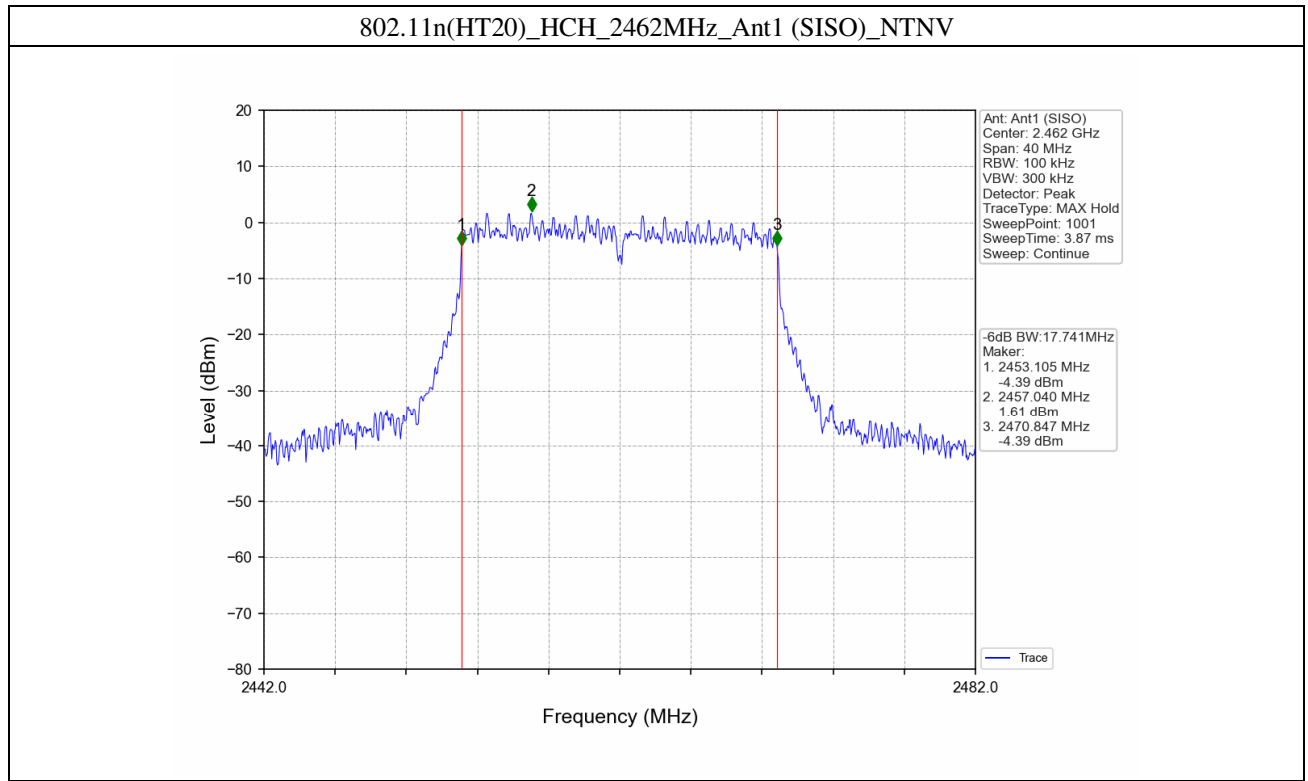


### 802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	14.66	<=30	Pass
		2437	15.72	<=30	Pass
		2462	15.53	<=30	Pass
802.11g	SISO	2412	12.15	<=30	Pass
		2437	13.03	<=30	Pass
		2462	12.86	<=30	Pass
802.11n (HT20)	SISO	2412	12.16	<=30	Pass
		2437	13.01	<=30	Pass
		2462	12.84	<=30	Pass

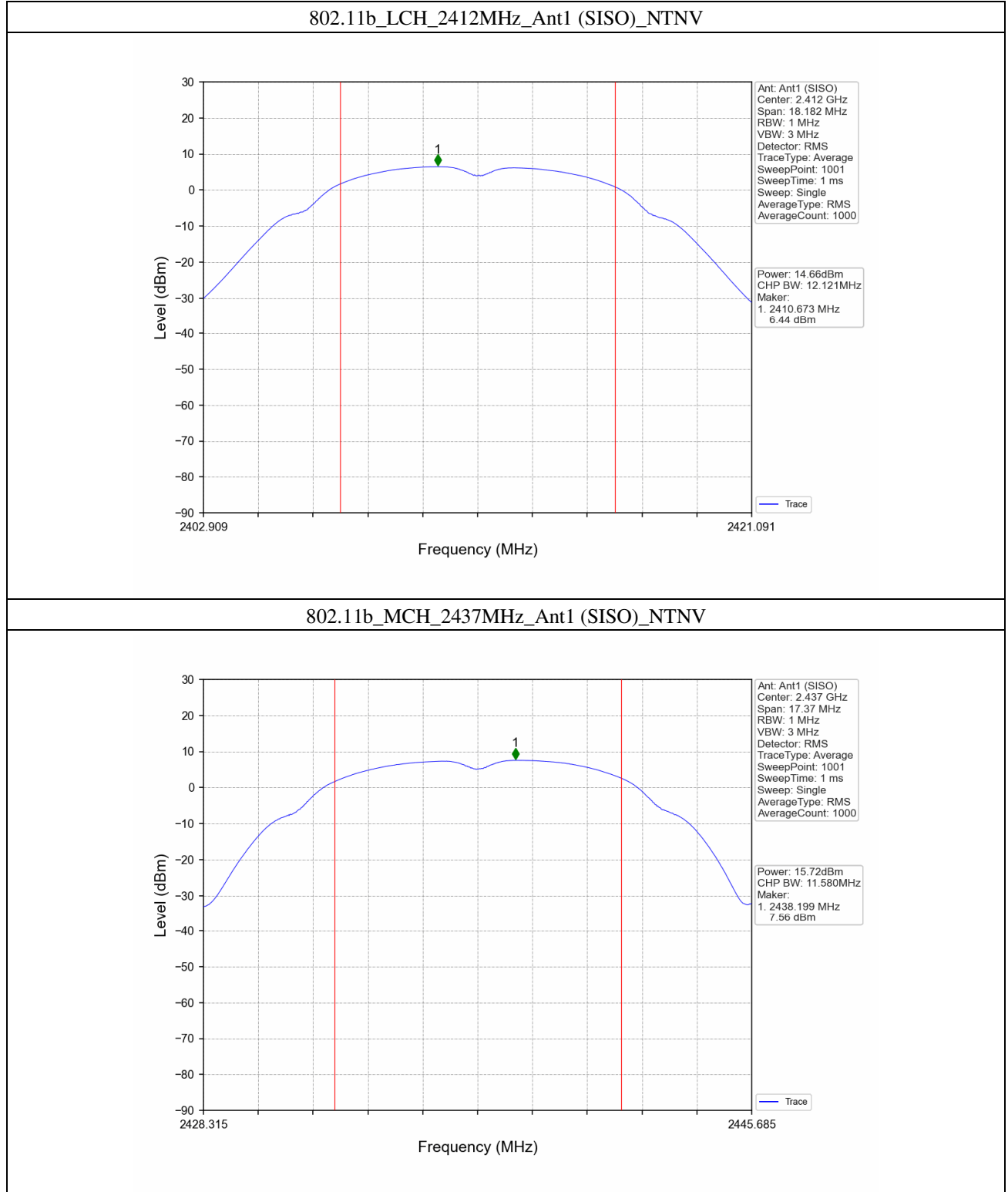
Note1: Antenna Gain: Ant1: 0.00dBi;



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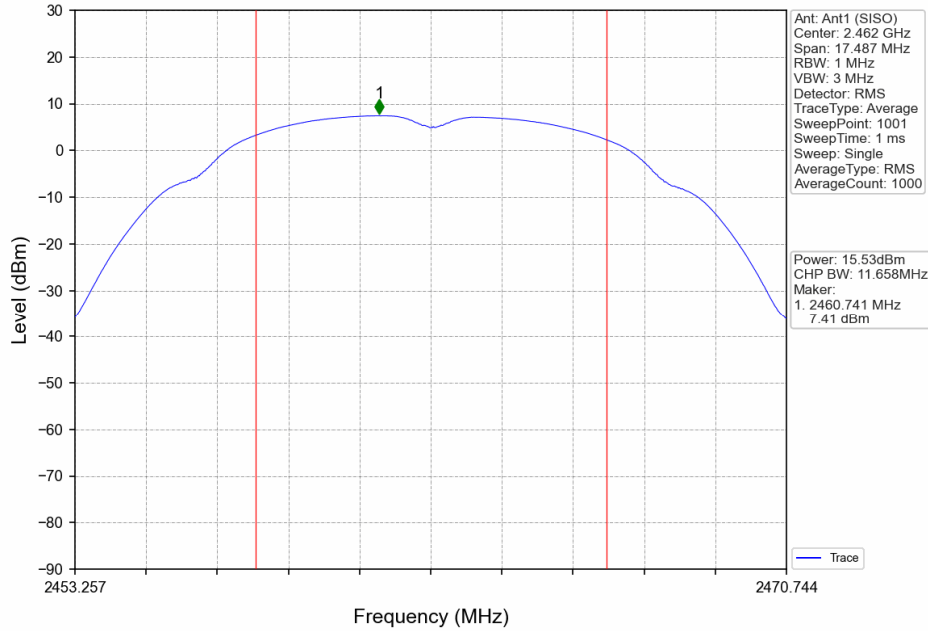
### 2.1.2 Test Graph



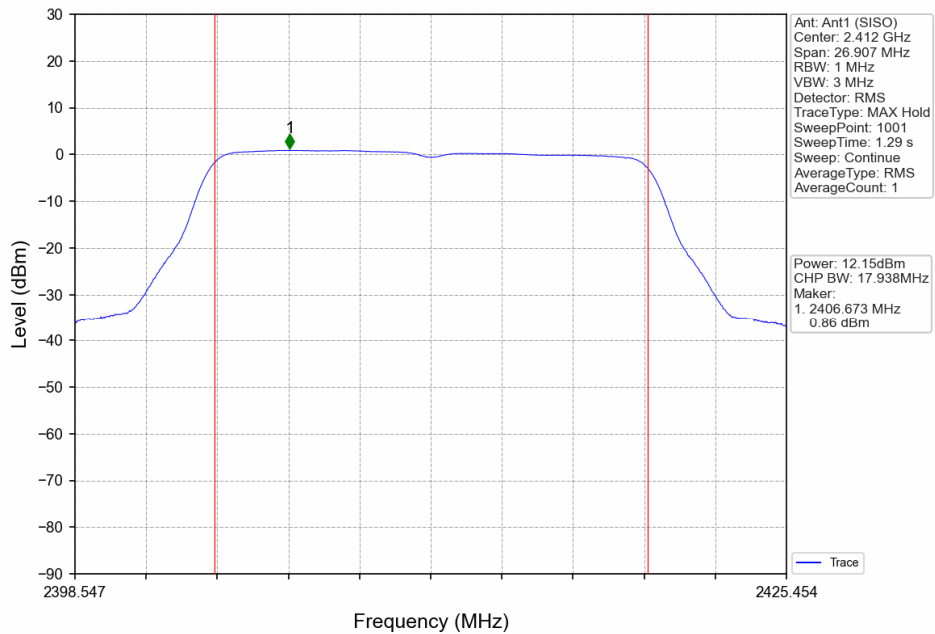
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



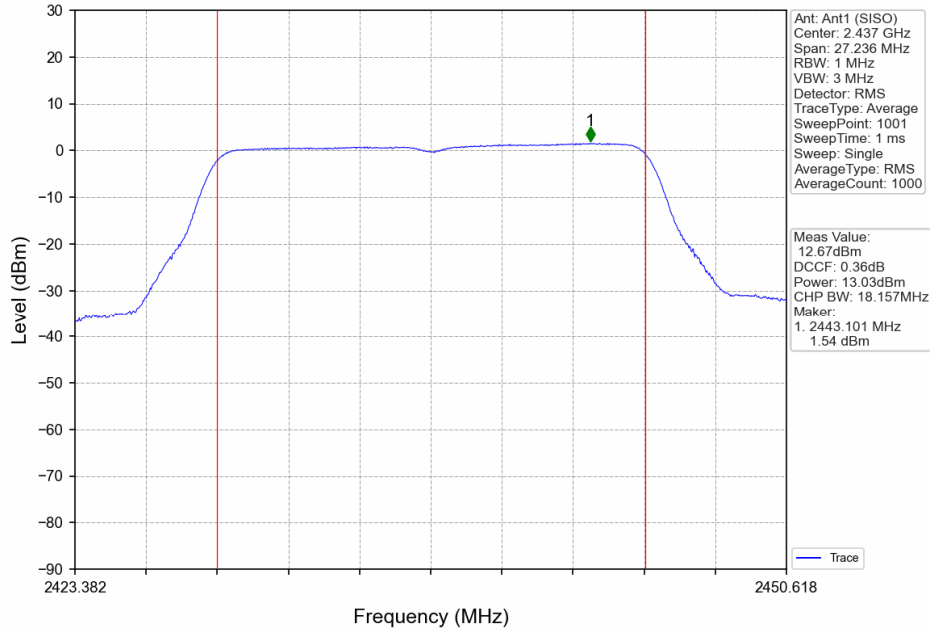
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



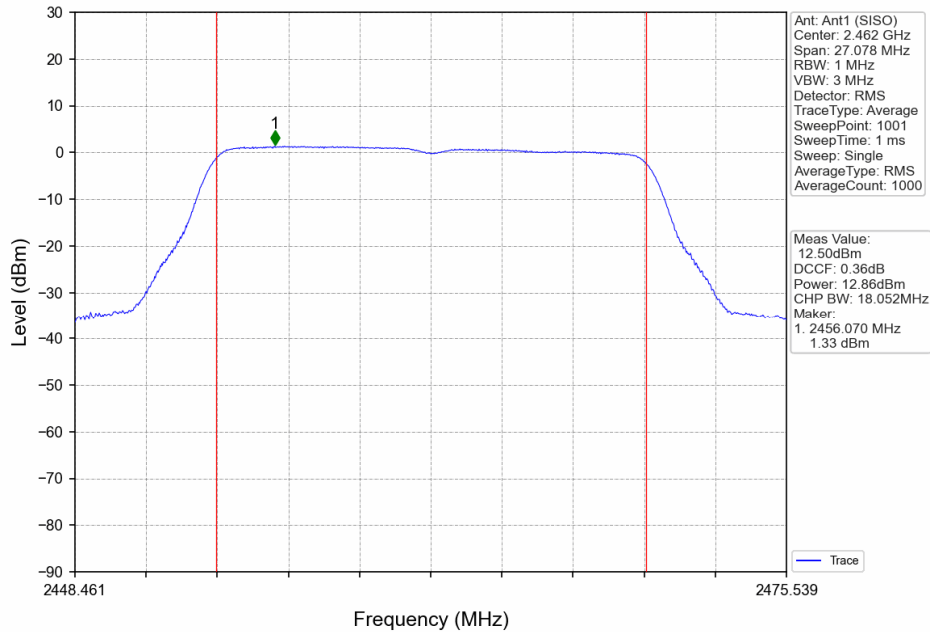
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

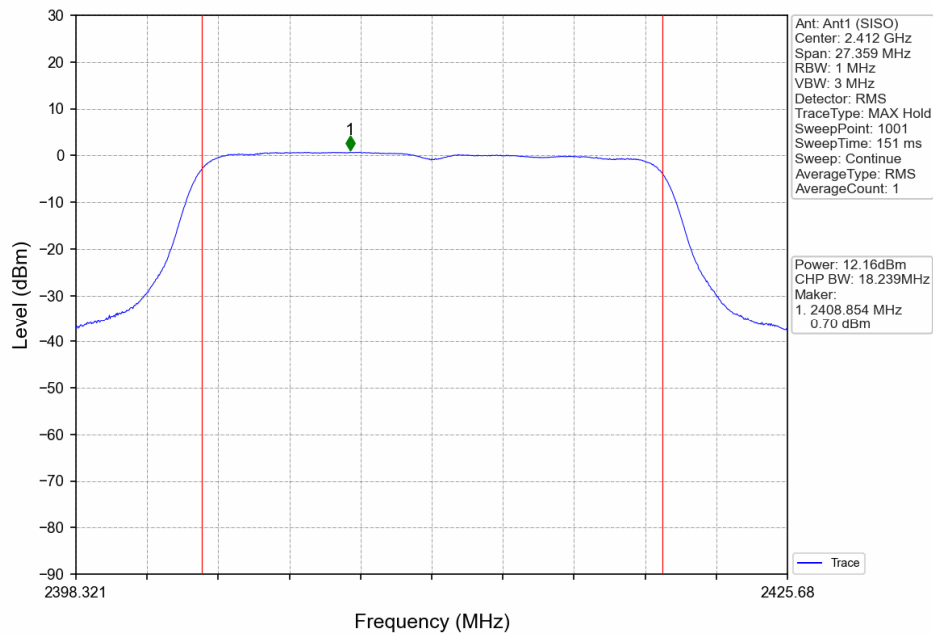


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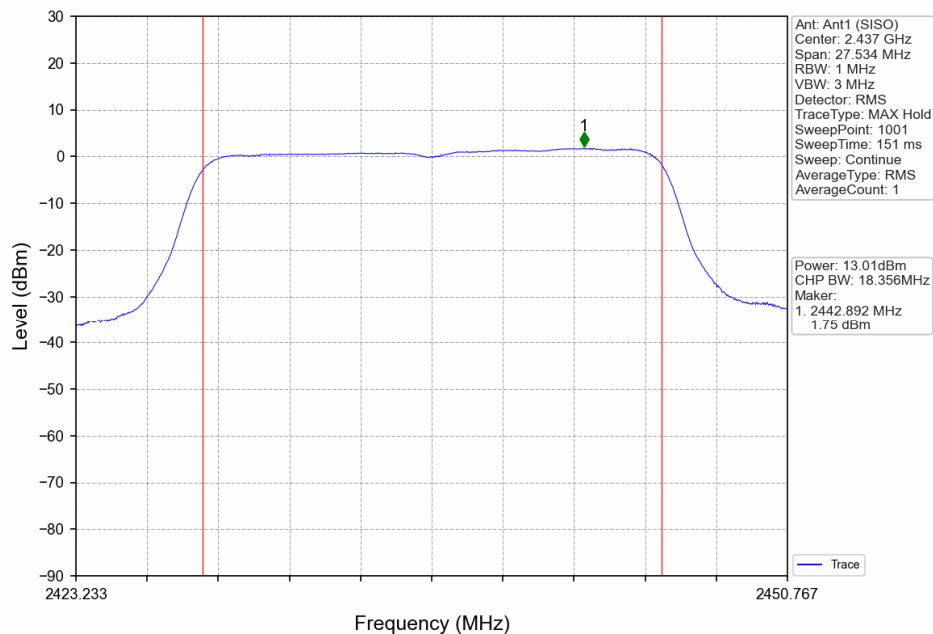
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

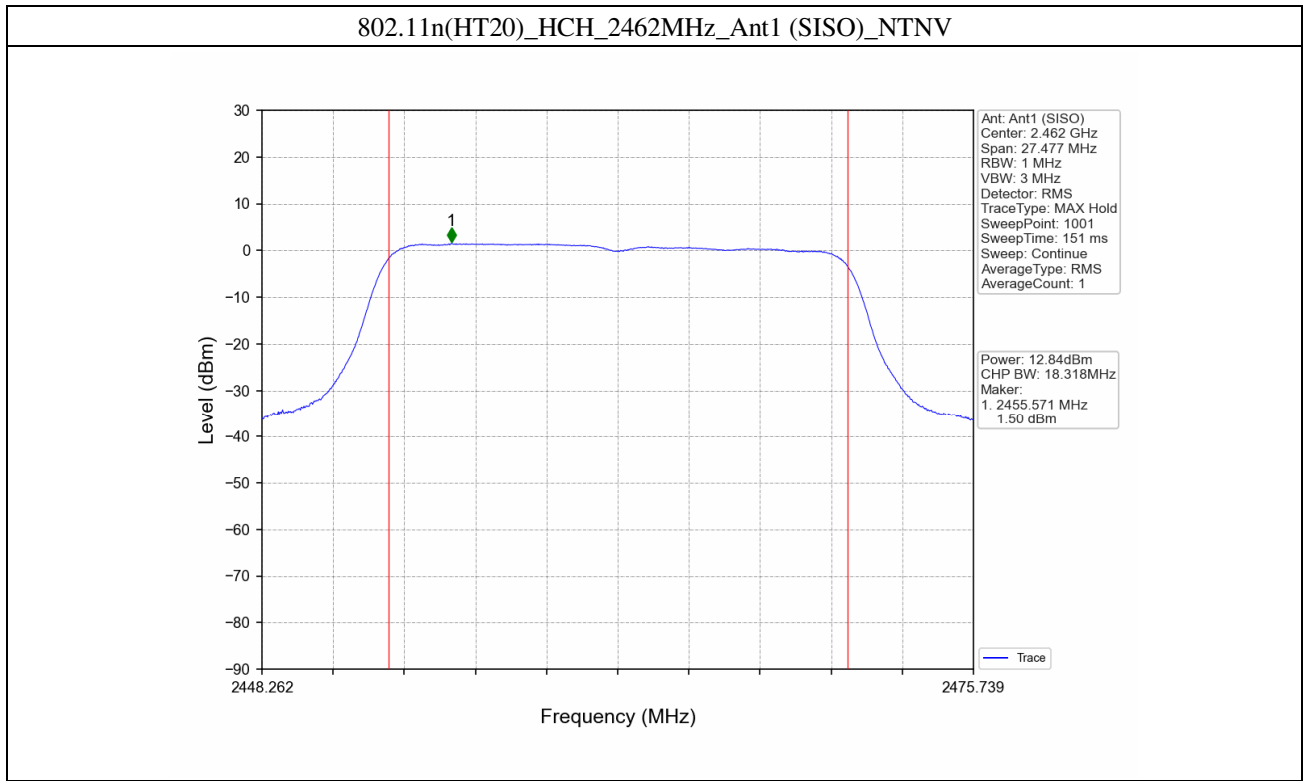


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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### 3. Maximum Power Spectral Density

#### 3.1 PSD

##### 3.1.1 Test Result

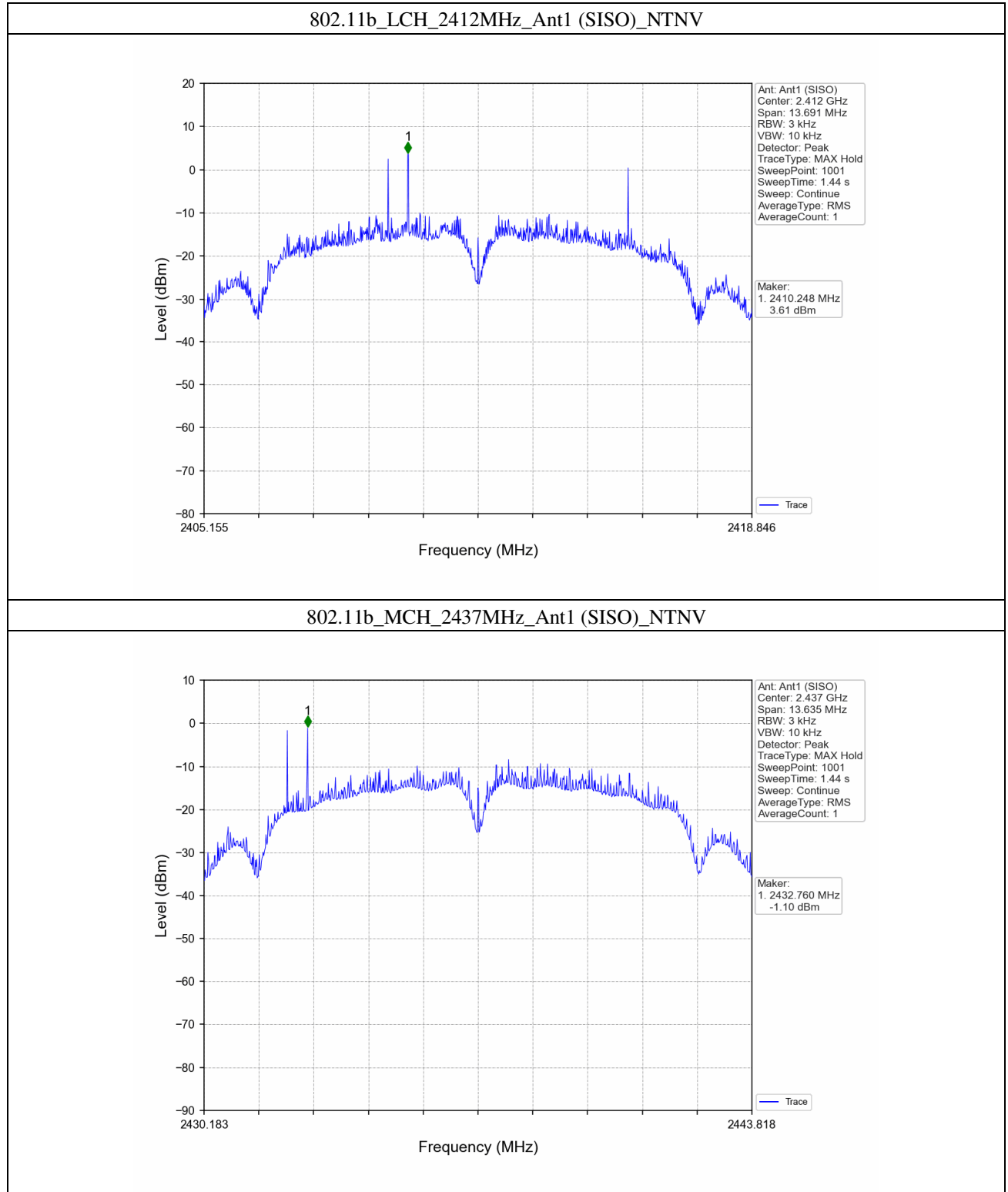
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	3.61	<=8	Pass
		2437	-1.10	<=8	Pass
		2462	-1.89	<=8	Pass
802.11g	SISO	2412	-11.99	<=8	Pass
		2437	-11.22	<=8	Pass
		2462	-11.19	<=8	Pass
802.11n (HT20)	SISO	2412	-14.20	<=8	Pass
		2437	-12.46	<=8	Pass
		2462	-13.45	<=8	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;



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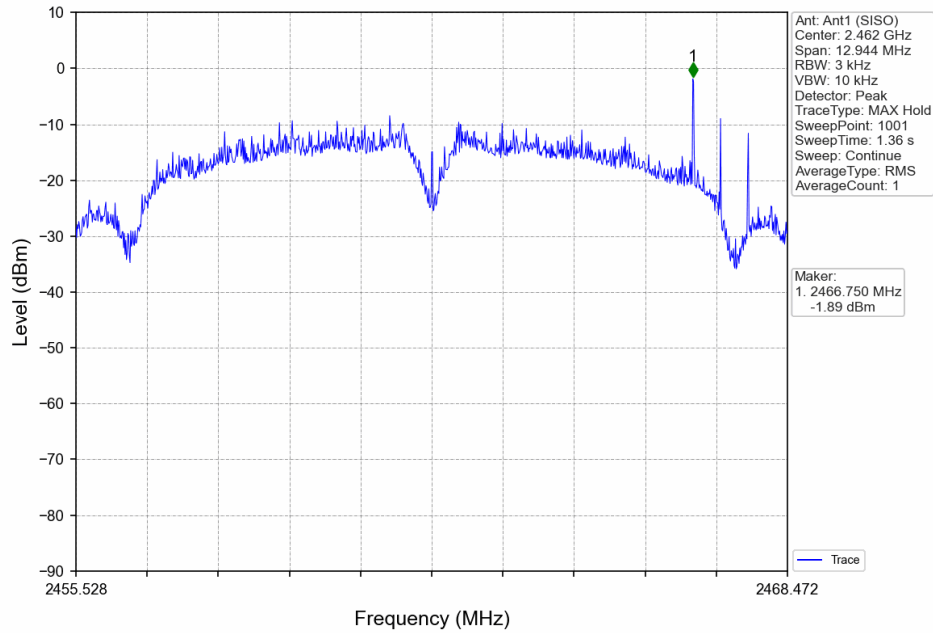
### 3.1.2 Test Graph



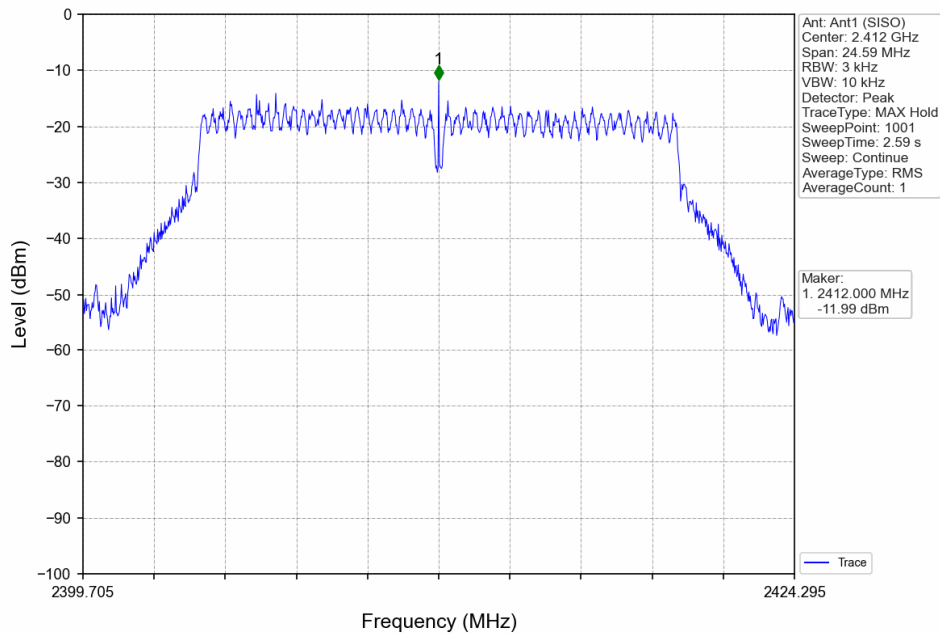
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

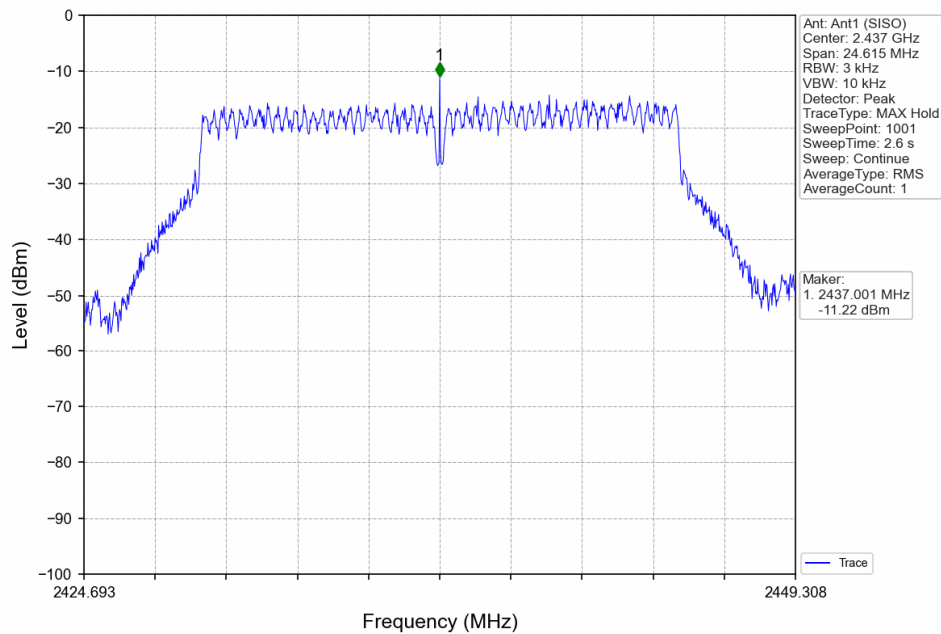


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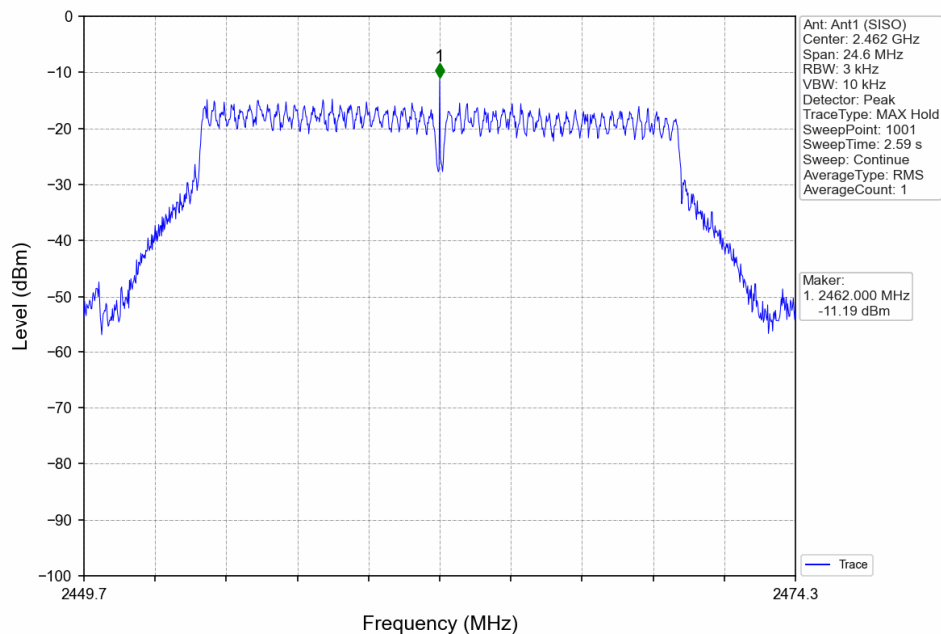
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### 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



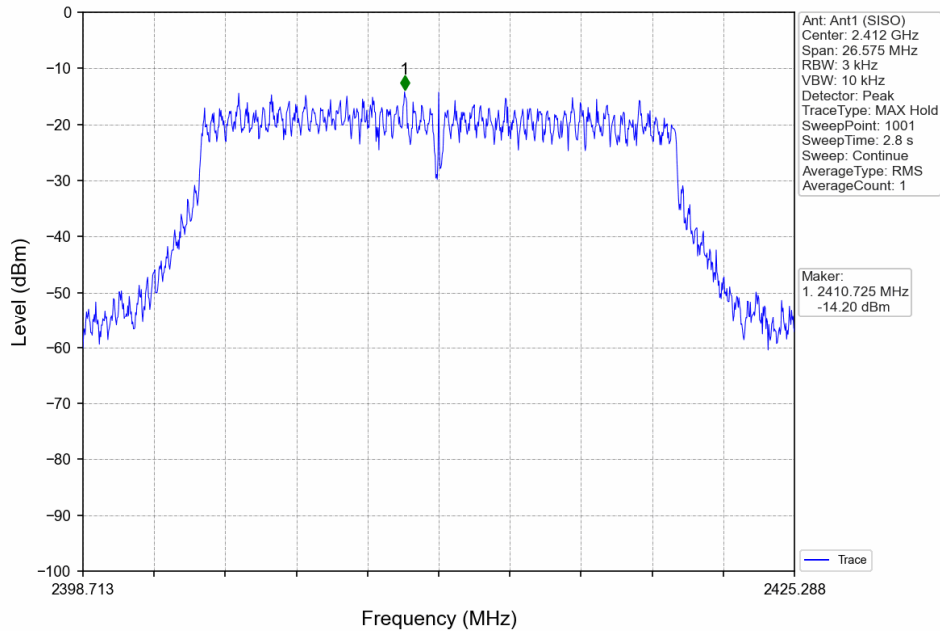
### 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



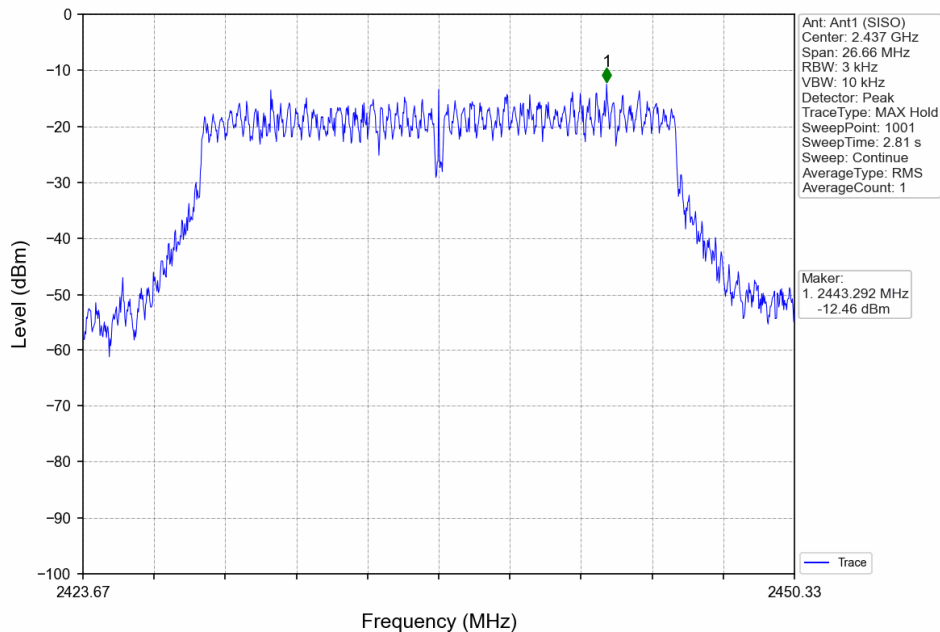
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

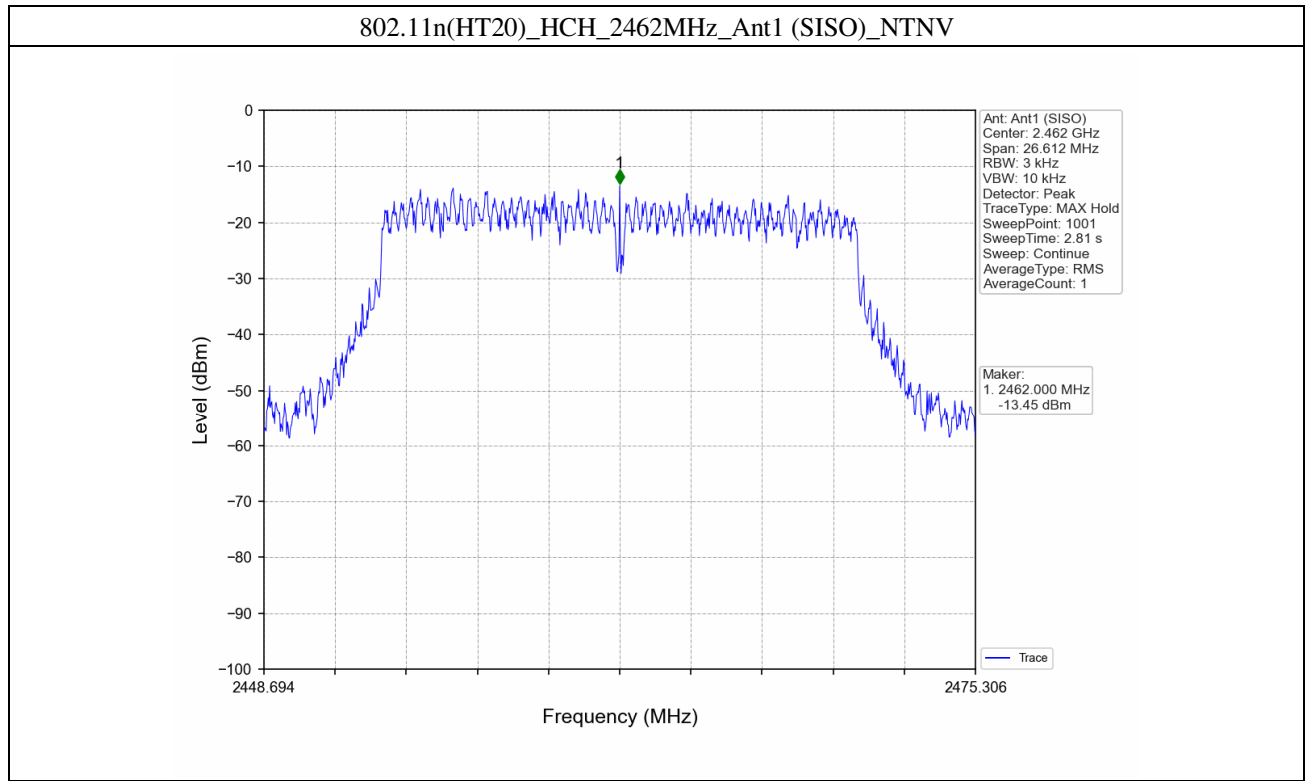


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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## 4. Unwanted Emissions In Non-restricted Frequency Bands

### 4.1 Ref

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	5.72
		2437	1	6.48
		2462	1	6.01
802.11g	SISO	2412	1	0.78
		2437	1	1.82
		2462	1	1.71
802.11n (HT20)	SISO	2412	1	0.88
		2437	1	1.62
		2462	1	1.57

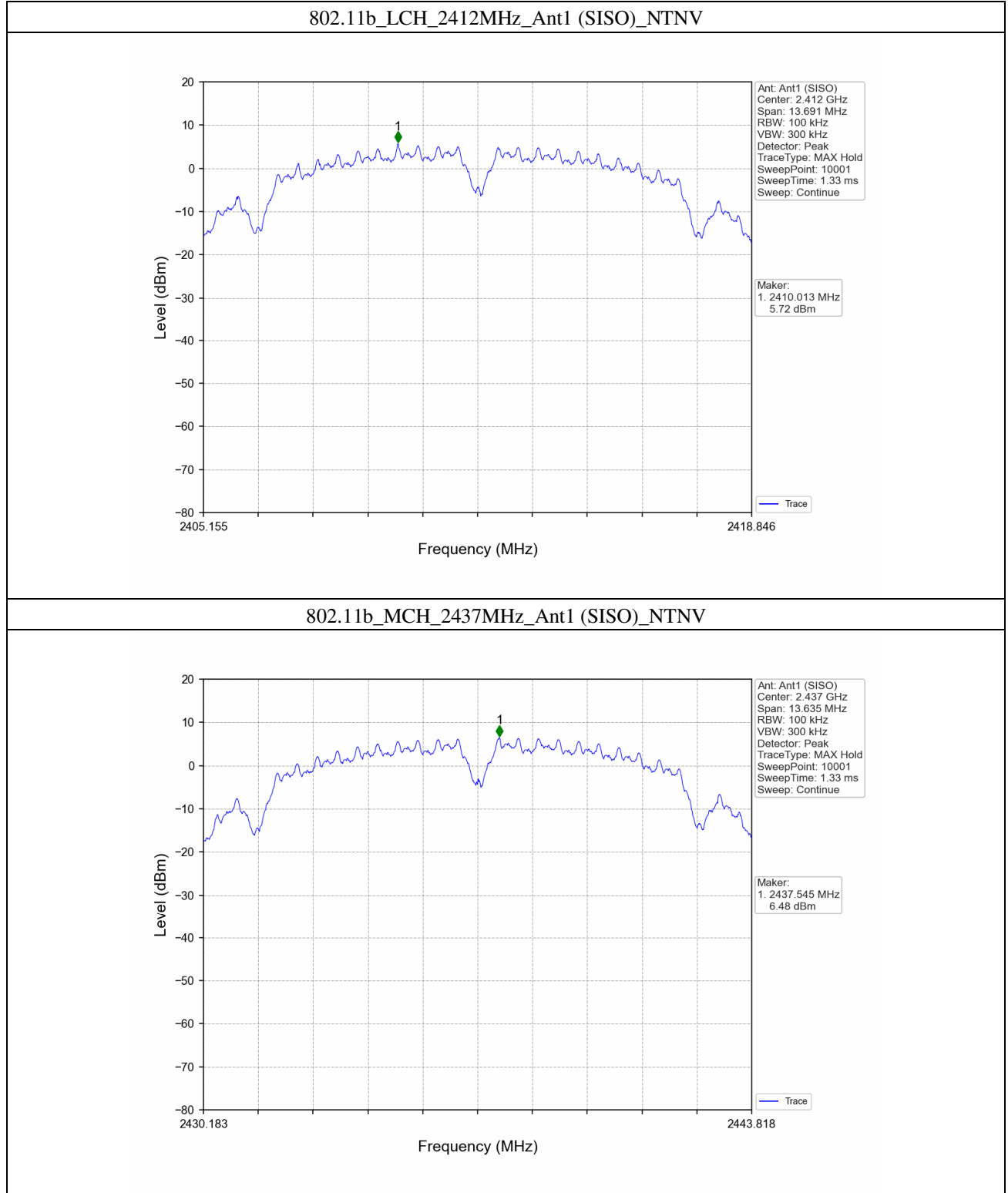
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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### 4.1.2 Test Graph

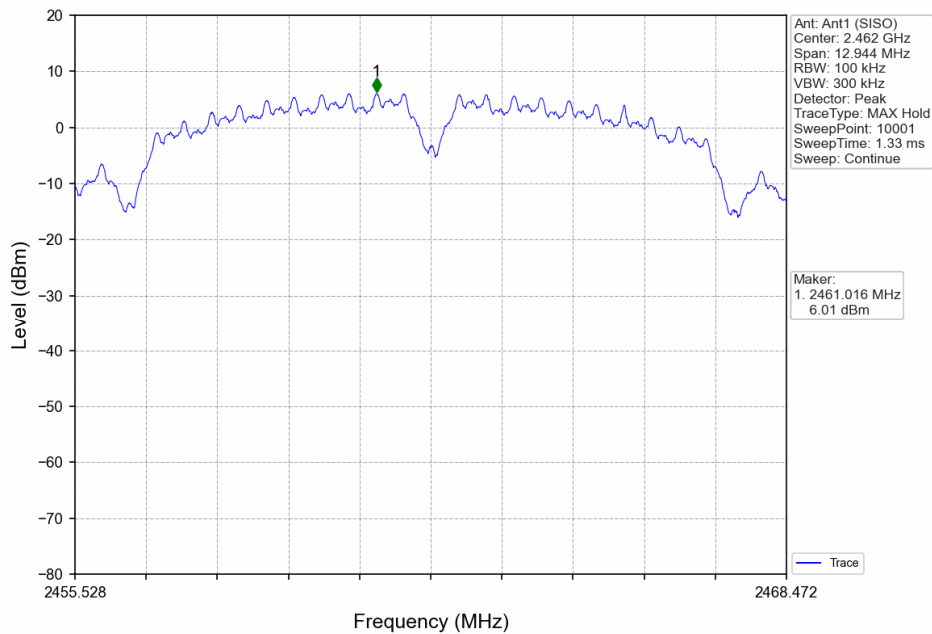


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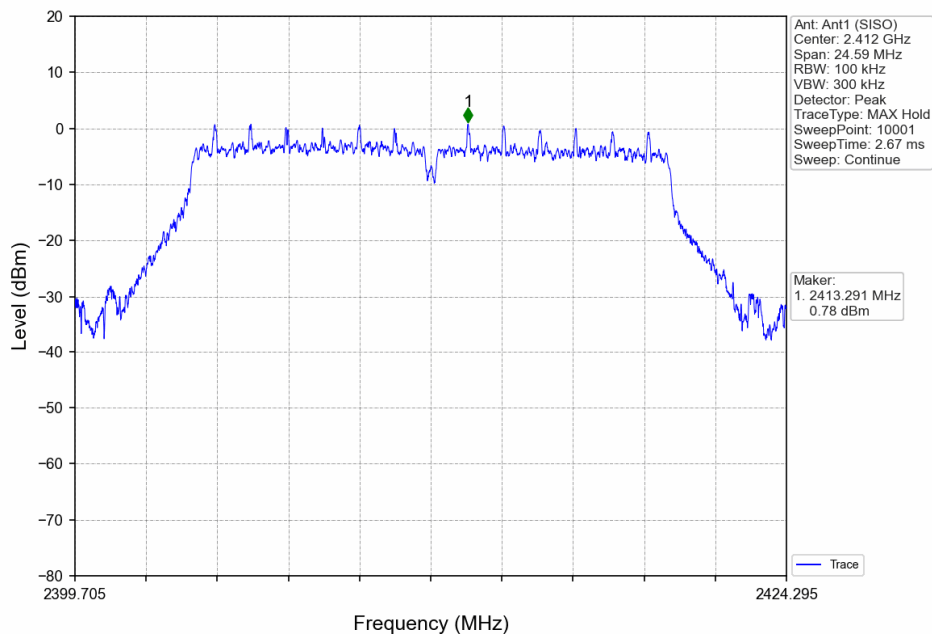
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



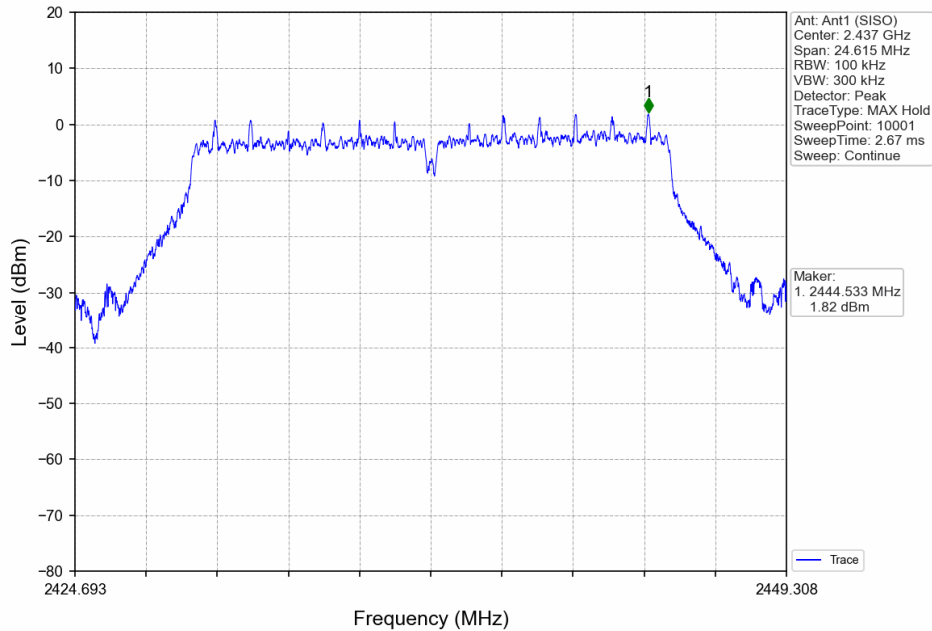
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



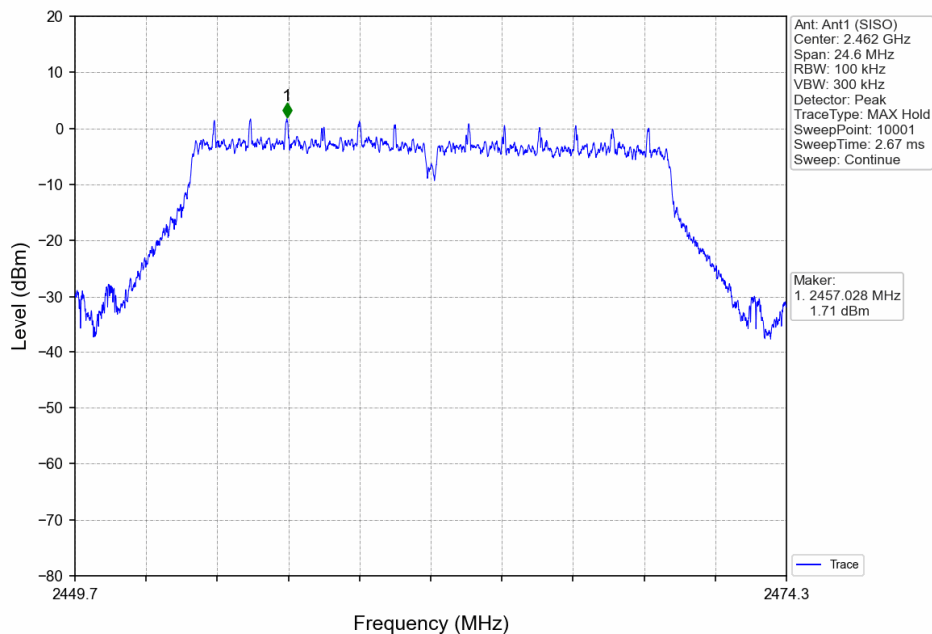
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



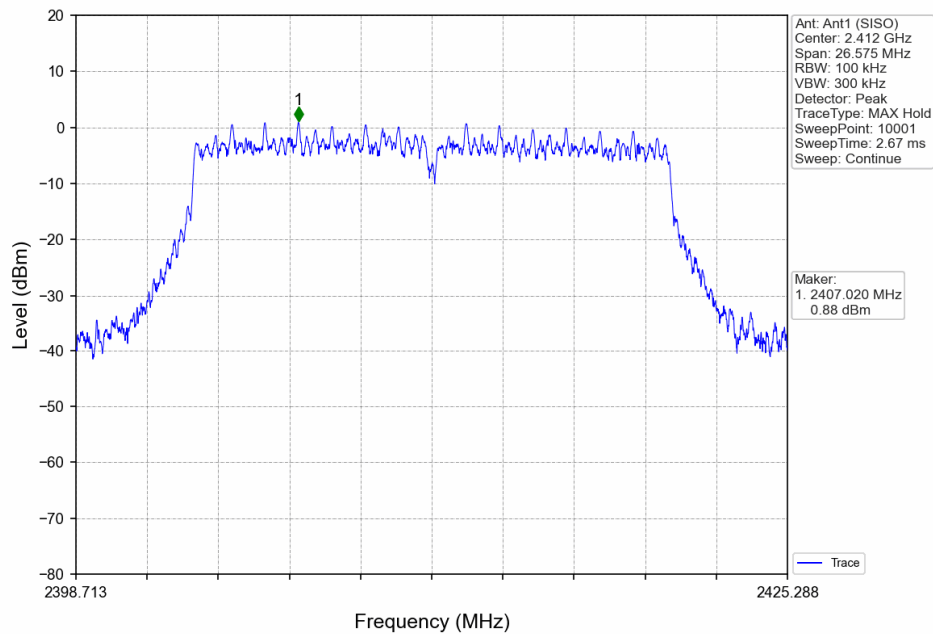
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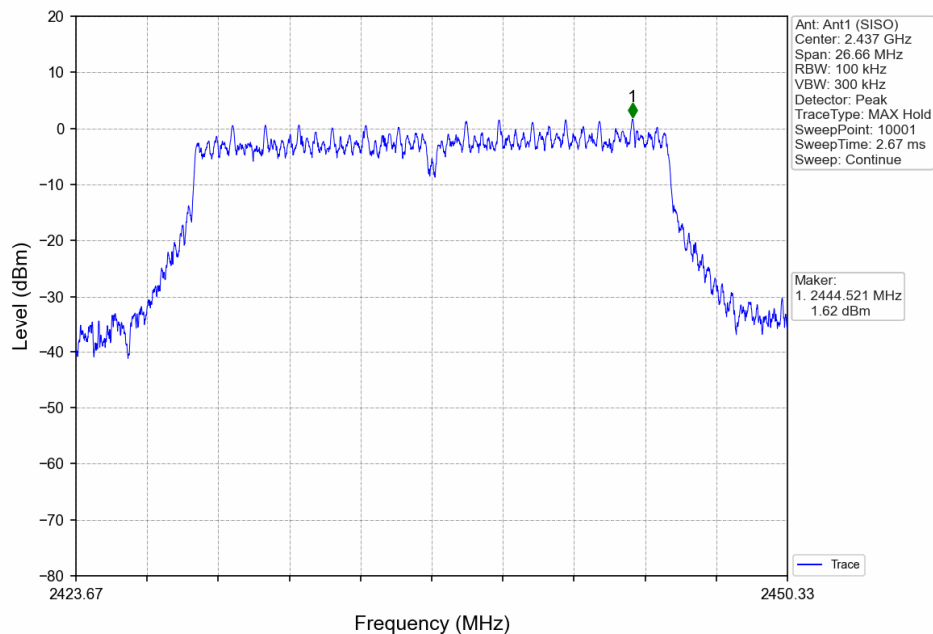
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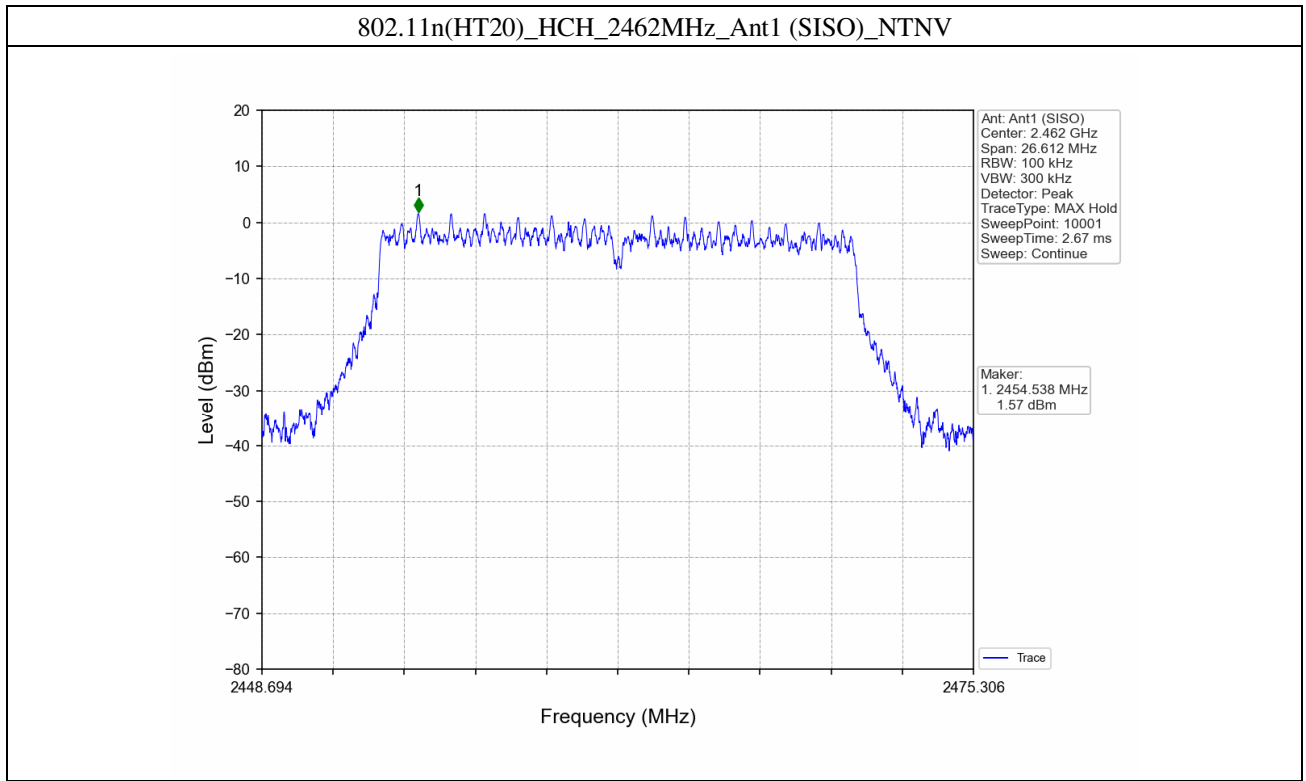
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV





## 4.2 CSE

### 4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.72	-24.28	Pass
		2437	1	6.48	-23.52	Pass
		2462	1	6.01	-23.99	Pass
802.11g	SISO	2412	1	0.78	-29.22	Pass
		2437	1	1.82	-28.18	Pass
		2462	1	1.71	-28.29	Pass
802.11n (HT20)	SISO	2412	1	0.88	-29.12	Pass
		2437	1	1.62	-28.38	Pass
		2462	1	1.57	-28.43	Pass

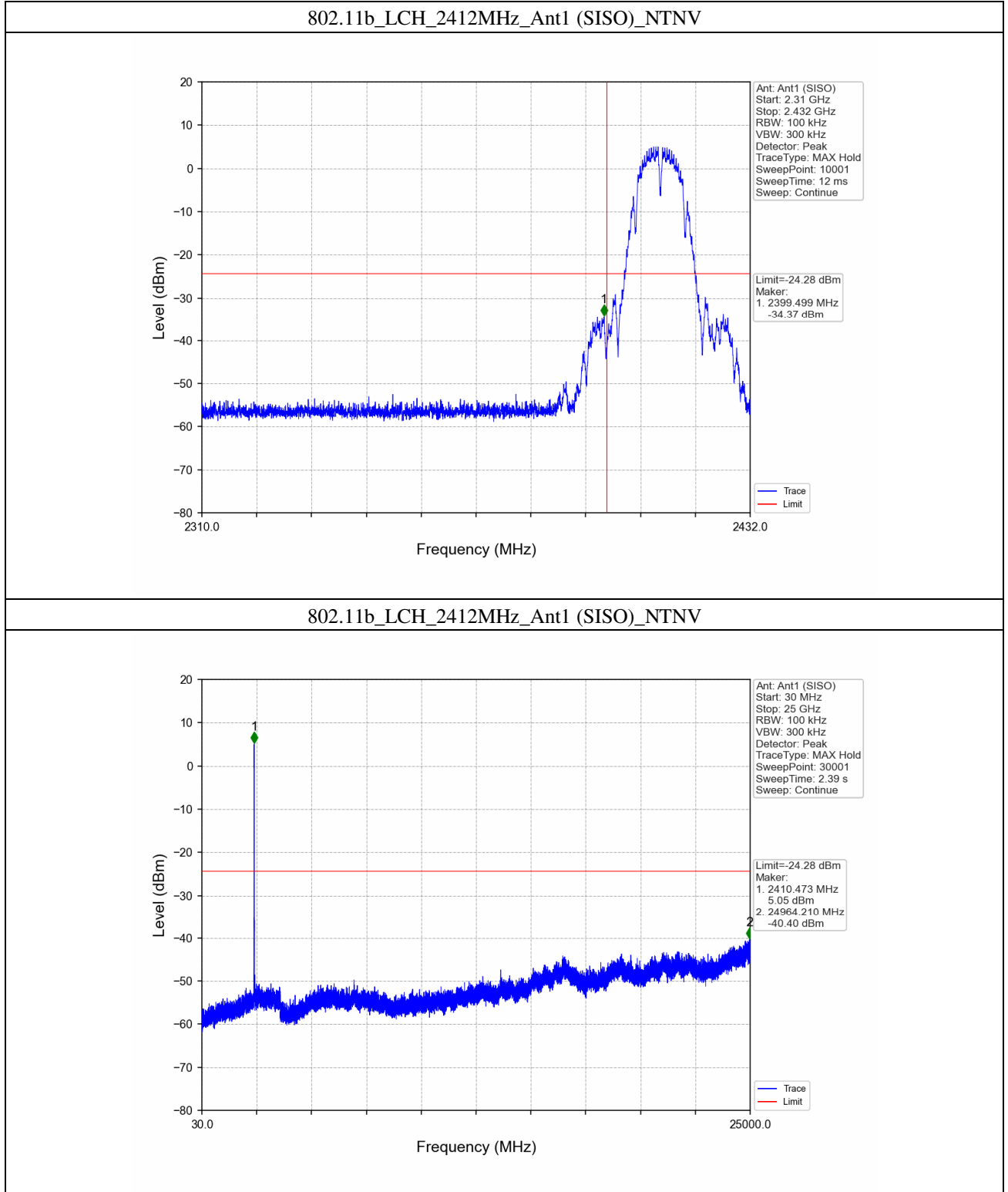
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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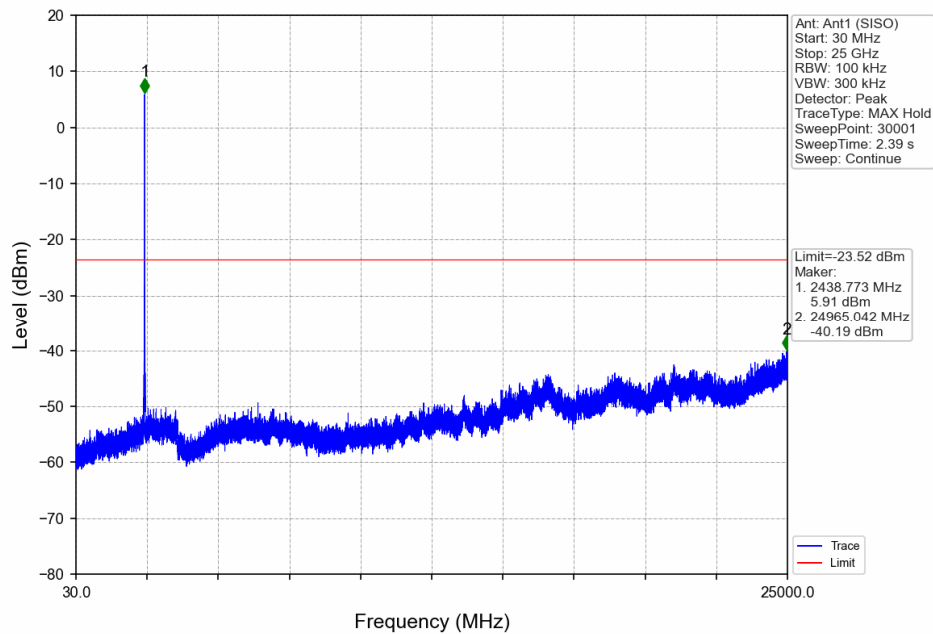
### 4.2.2 Test Graph



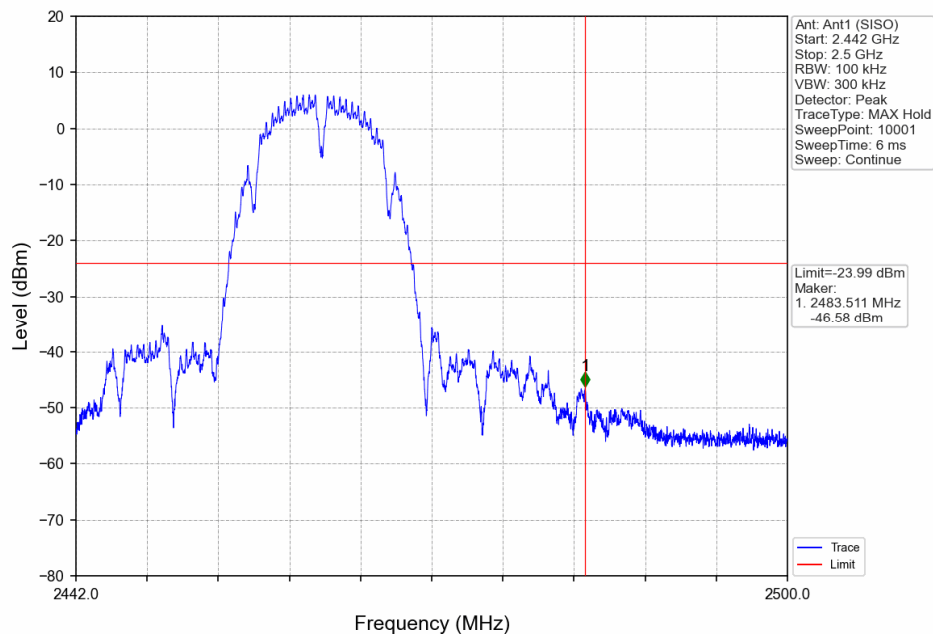
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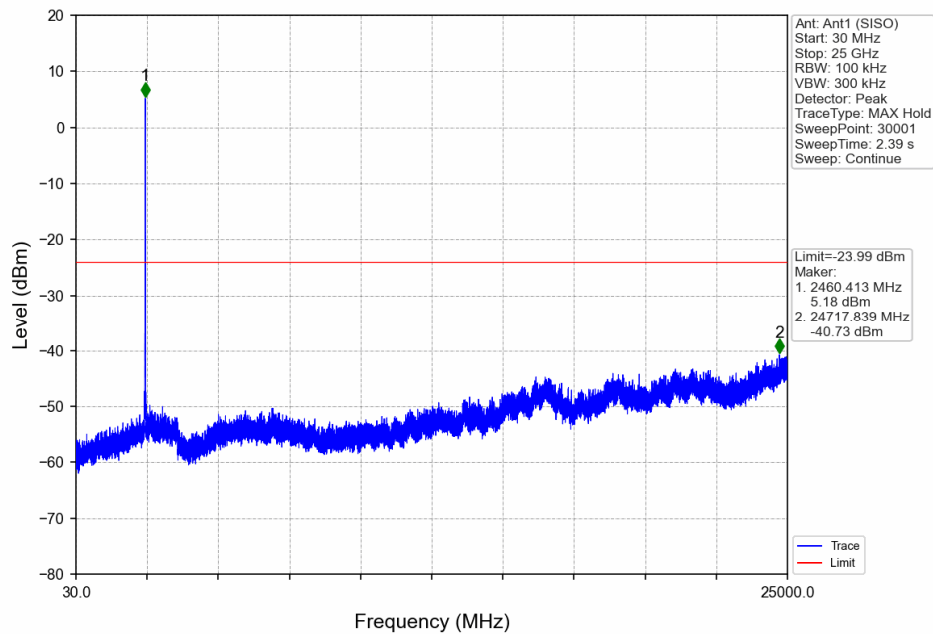
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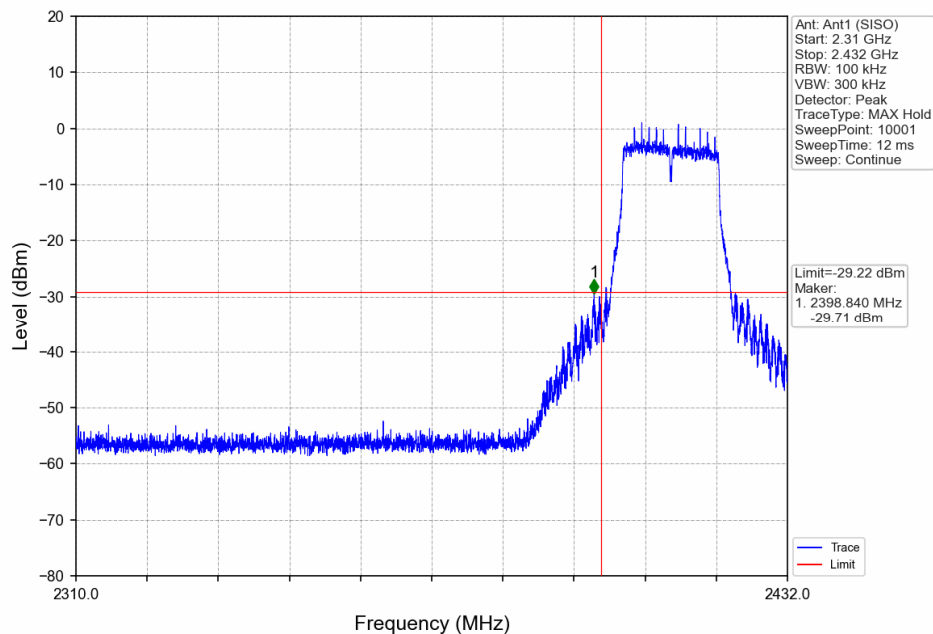
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### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



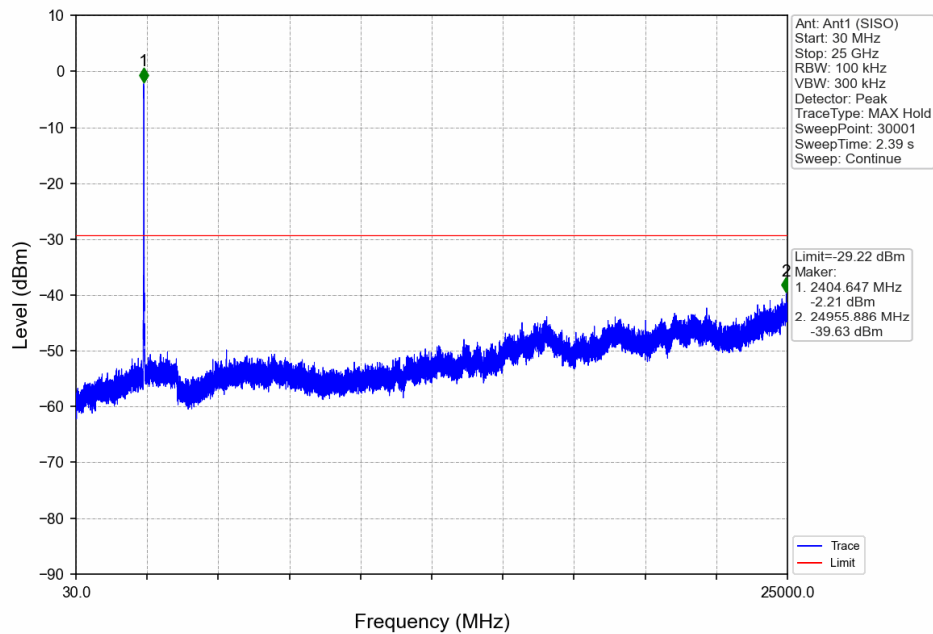
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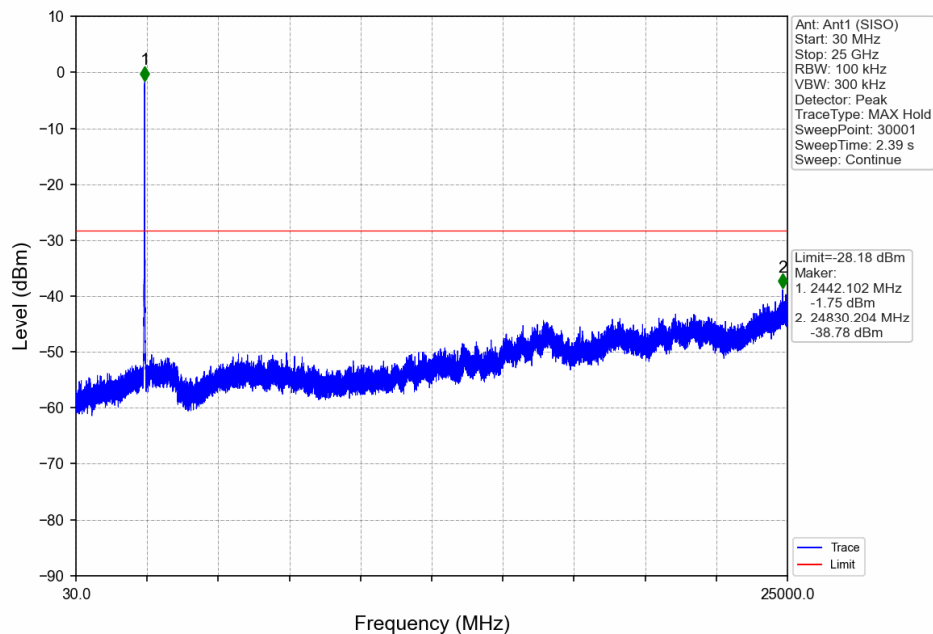
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

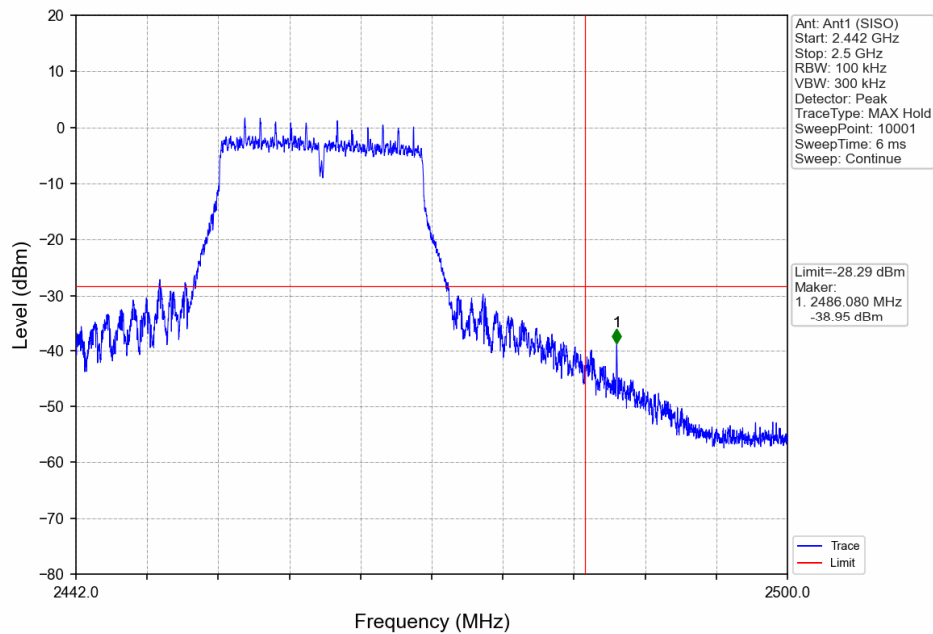


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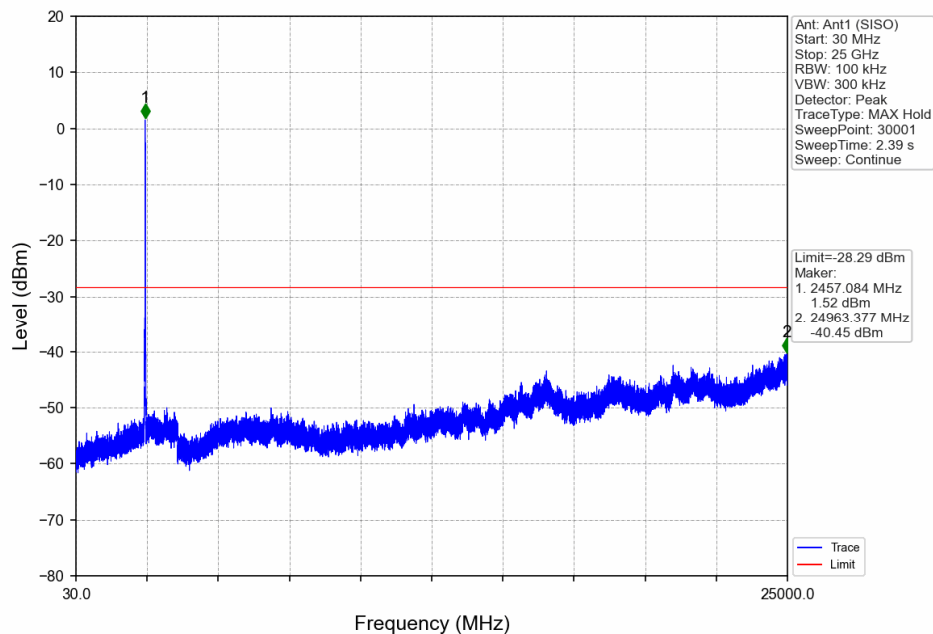
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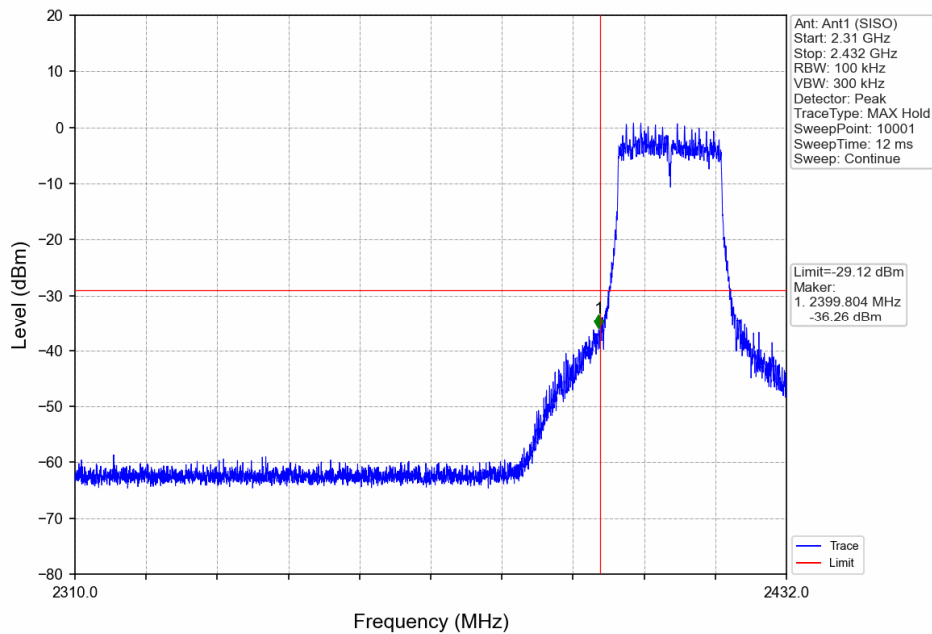
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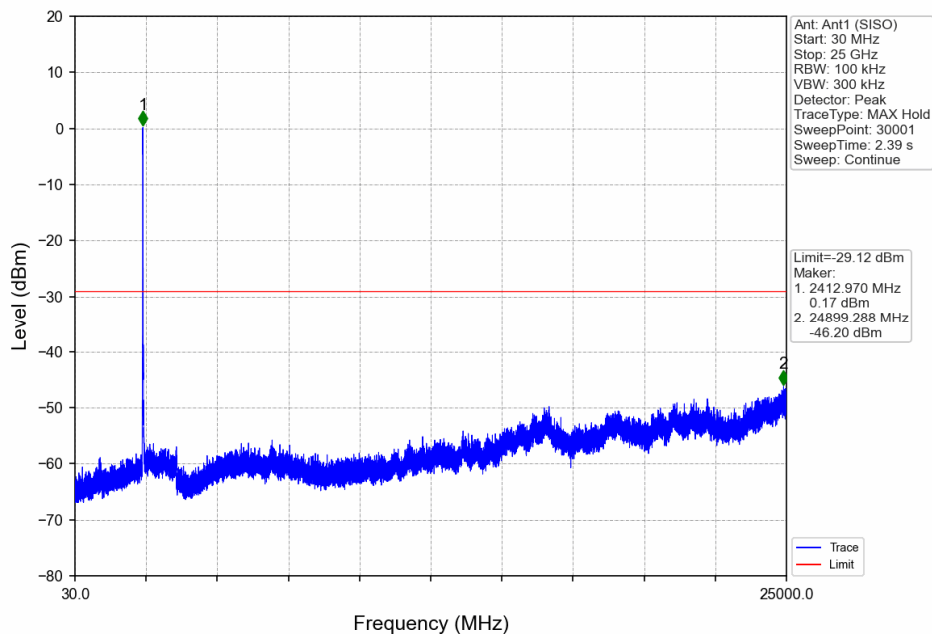
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



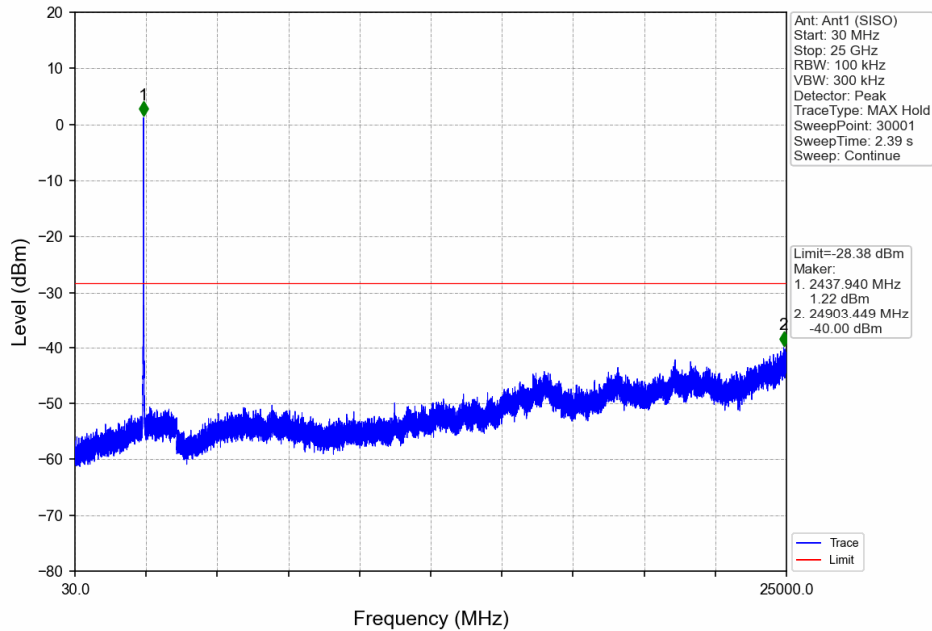
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



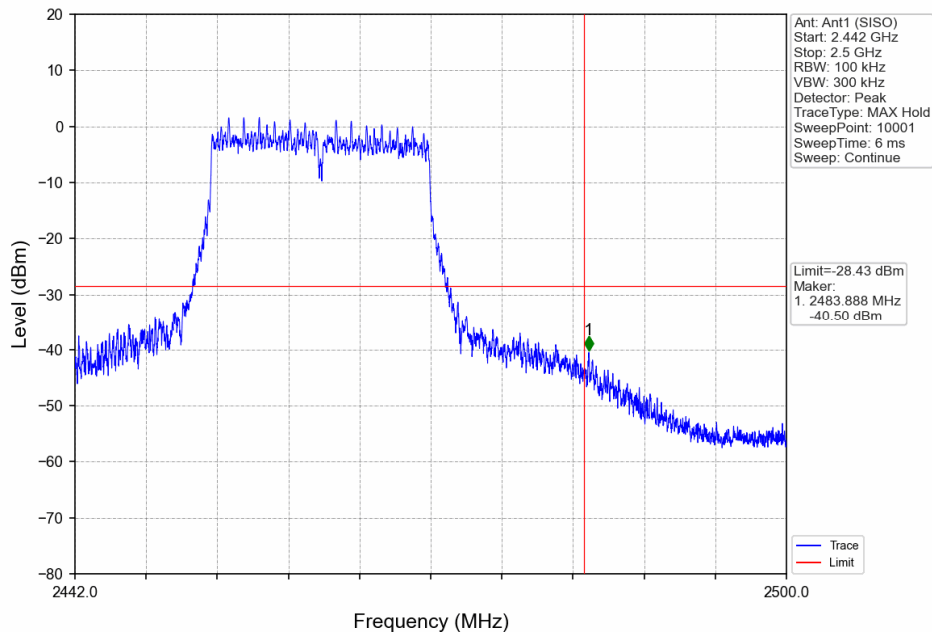
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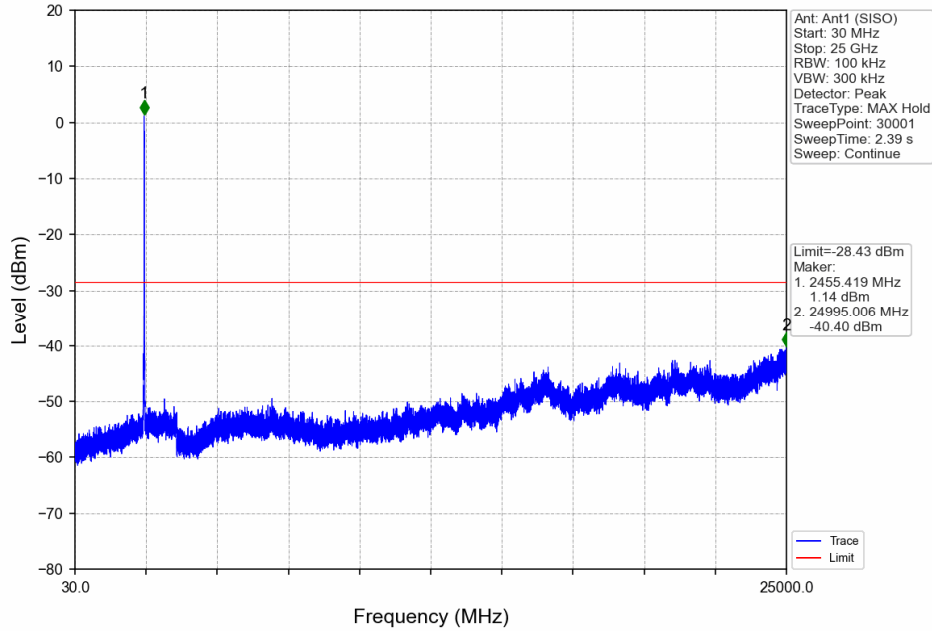
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