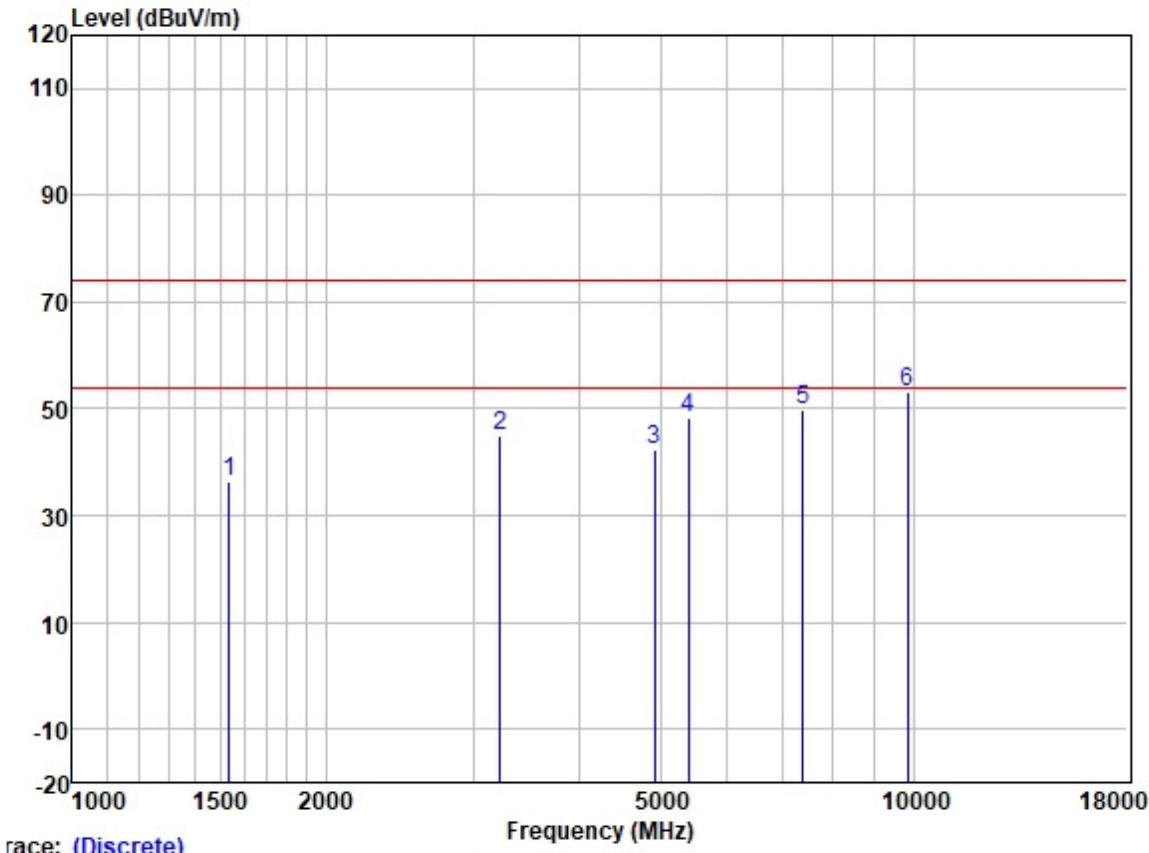


Test Mode: 02; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

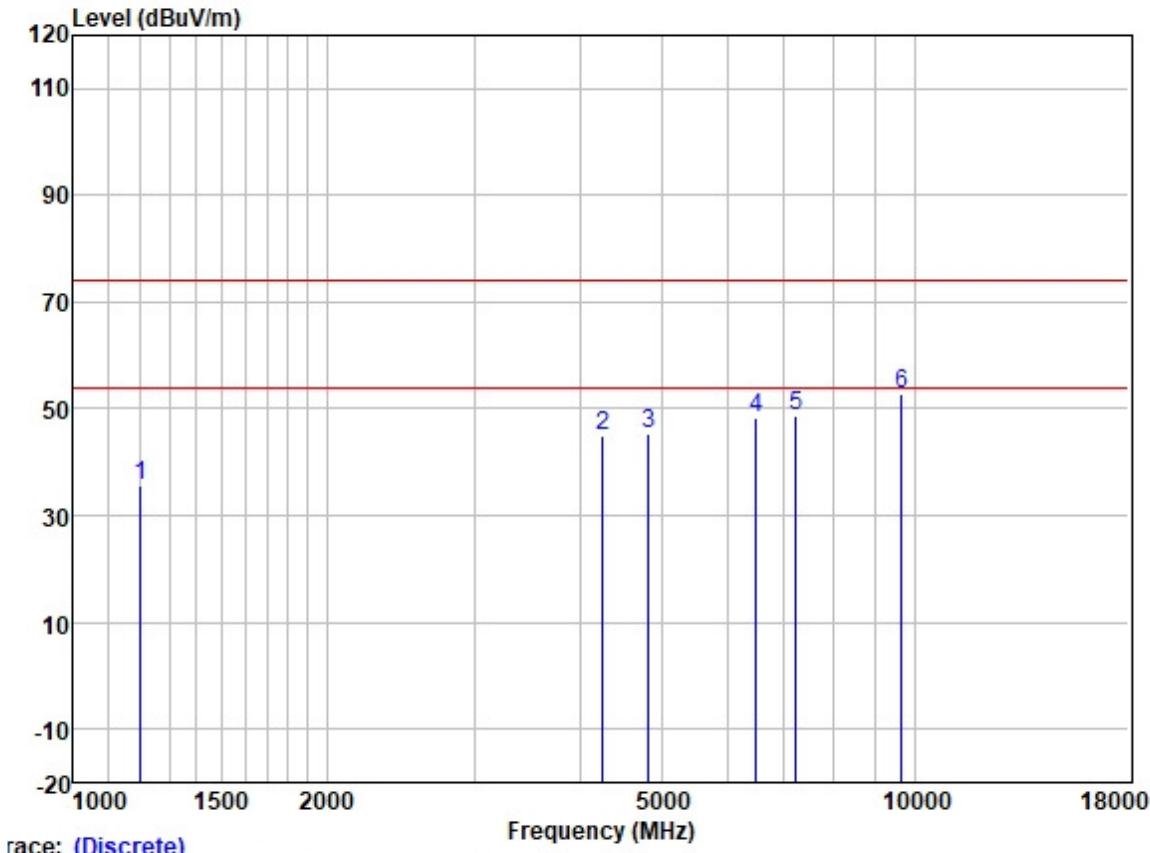
Index	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1534.880	46.19	25.52	2.80	38.07	36.44	74.00	-37.56	VERTICAL	Peak
2	3225.431	49.49	28.63	4.01	37.07	45.06	74.00	-28.94	VERTICAL	Peak
3	4924.000	42.06	31.62	5.60	36.84	42.44	74.00	-31.56	VERTICAL	Peak
4	5399.756	47.37	31.78	6.00	36.88	48.27	74.00	-25.73	VERTICAL	Peak
5	7386.000	44.85	36.17	6.19	37.45	49.76	74.00	-24.24	VERTICAL	Peak
6	9848.000	45.02	38.58	6.99	37.41	53.18	74.00	-20.82	VERTICAL	Peak

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



Race: (Discrete)

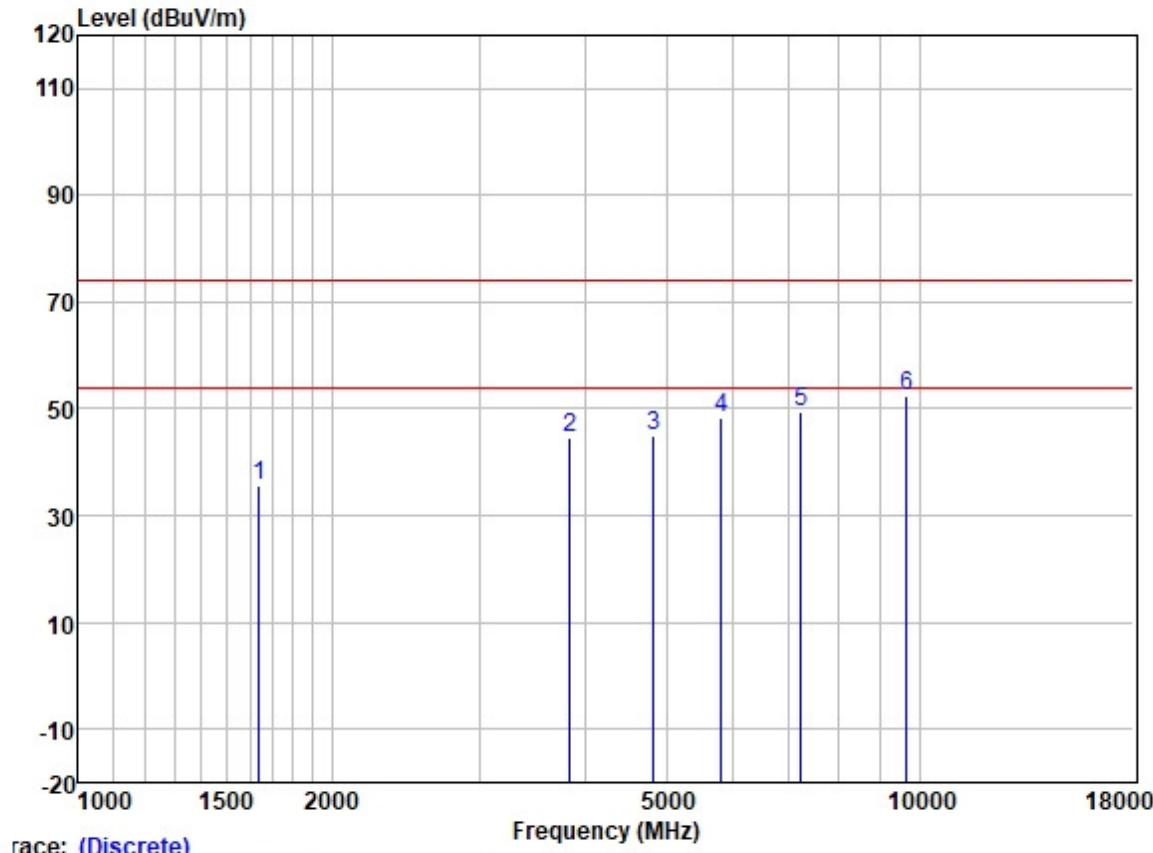
	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		MHz	Level	Factor	Loss					
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1201.072	46.92	24.68	2.34	38.39	35.55	74.00	-38.45	HORIZONTAL	Peak
2	4258.748	46.85	30.34	4.62	36.81	45.00	74.00	-29.00	HORIZONTAL	Peak
3	4824.000	45.47	31.45	5.42	36.83	45.51	74.00	-28.49	HORIZONTAL	Peak
4	6479.316	45.56	33.92	5.86	37.00	48.34	74.00	-25.66	HORIZONTAL	Peak
5	7236.000	44.36	35.70	6.03	37.39	48.70	74.00	-25.30	HORIZONTAL	Peak
6	9648.000	44.69	38.40	7.06	37.42	52.73	74.00	-21.27	HORIZONTAL	Peak

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



Race: (Discrete)

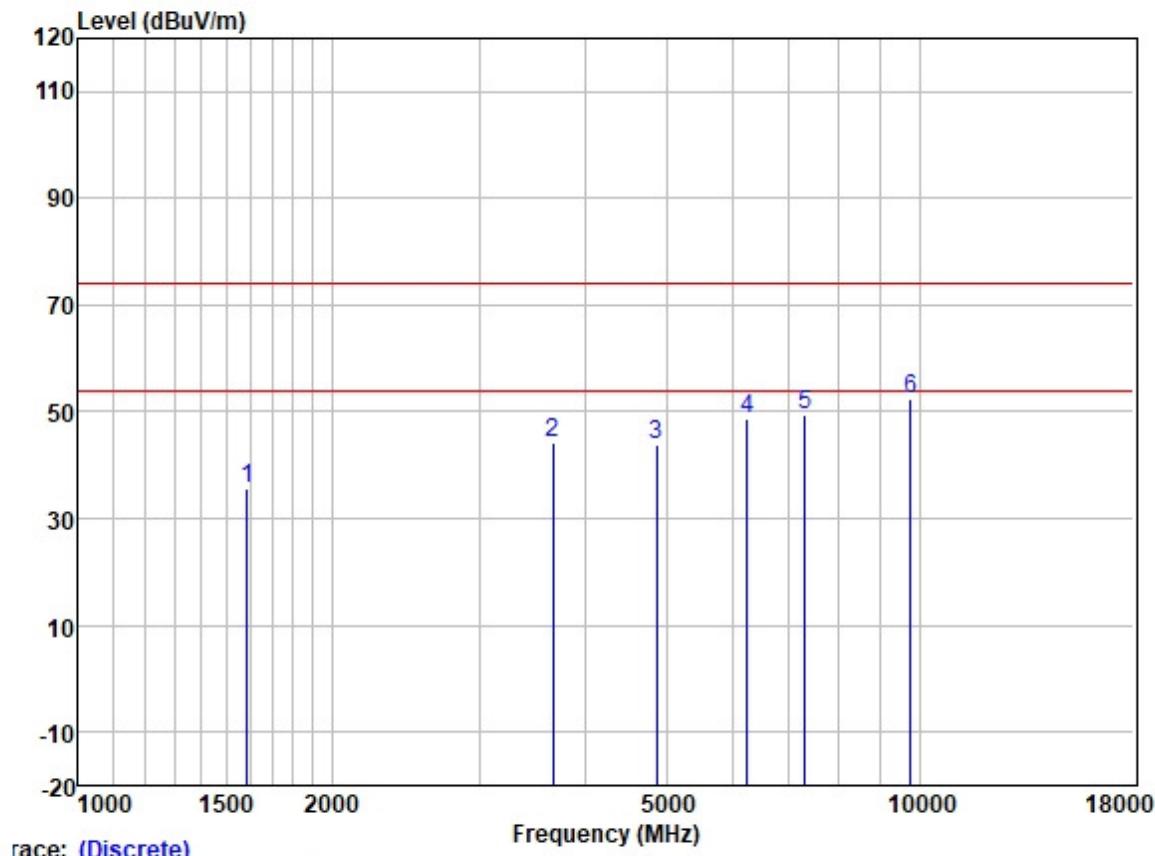
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1640.330	45.05	25.62	2.80	37.93	35.54	74.00	-38.46	VERTICAL	Peak
2	3839.413	47.25	29.59	4.60	36.84	44.60	74.00	-29.40	VERTICAL	Peak
3	4824.000	44.80	31.45	5.42	36.83	44.84	74.00	-29.16	VERTICAL	Peak
4	5807.891	46.94	32.21	6.07	36.89	48.33	74.00	-25.67	VERTICAL	Peak
5	7236.000	45.27	35.70	6.03	37.39	49.61	74.00	-24.39	VERTICAL	Peak
6	9648.000	44.50	38.40	7.06	37.42	52.54	74.00	-21.46	VERTICAL	Peak

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



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 1588.654	45.38	25.57	2.80	37.98	35.77	74.00	-38.23	HORIZONTAL	Peak	
2 3671.175	47.27	29.17	4.54	36.88	44.10	74.00	-29.90	HORIZONTAL	Peak	
3 4874.000	43.68	31.54	5.50	36.84	43.88	74.00	-30.12	HORIZONTAL	Peak	
4 6234.769	46.43	33.11	6.04	36.94	48.64	74.00	-25.36	HORIZONTAL	Peak	
5 7311.000	44.64	35.93	6.11	37.42	49.26	74.00	-24.74	HORIZONTAL	Peak	
6 9748.000	44.37	38.50	7.02	37.41	52.48	74.00	-21.52	HORIZONTAL	Peak	

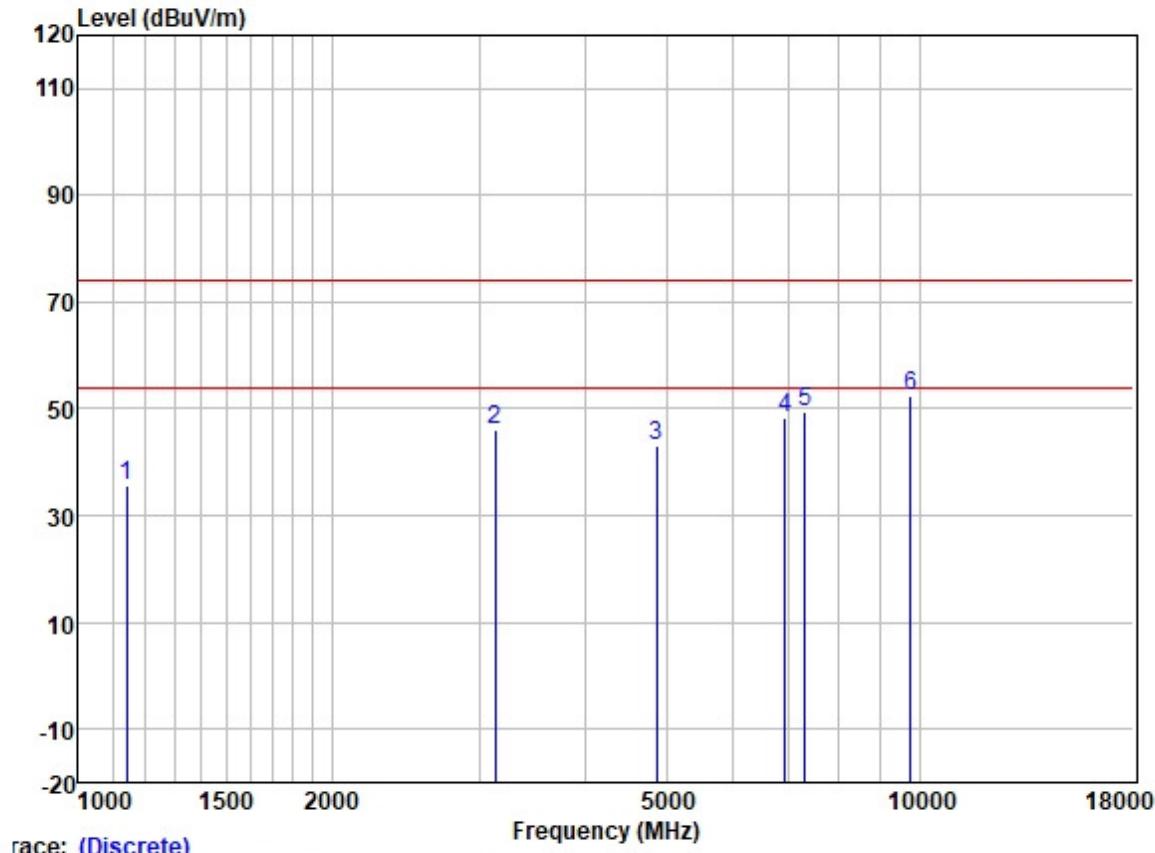
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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

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



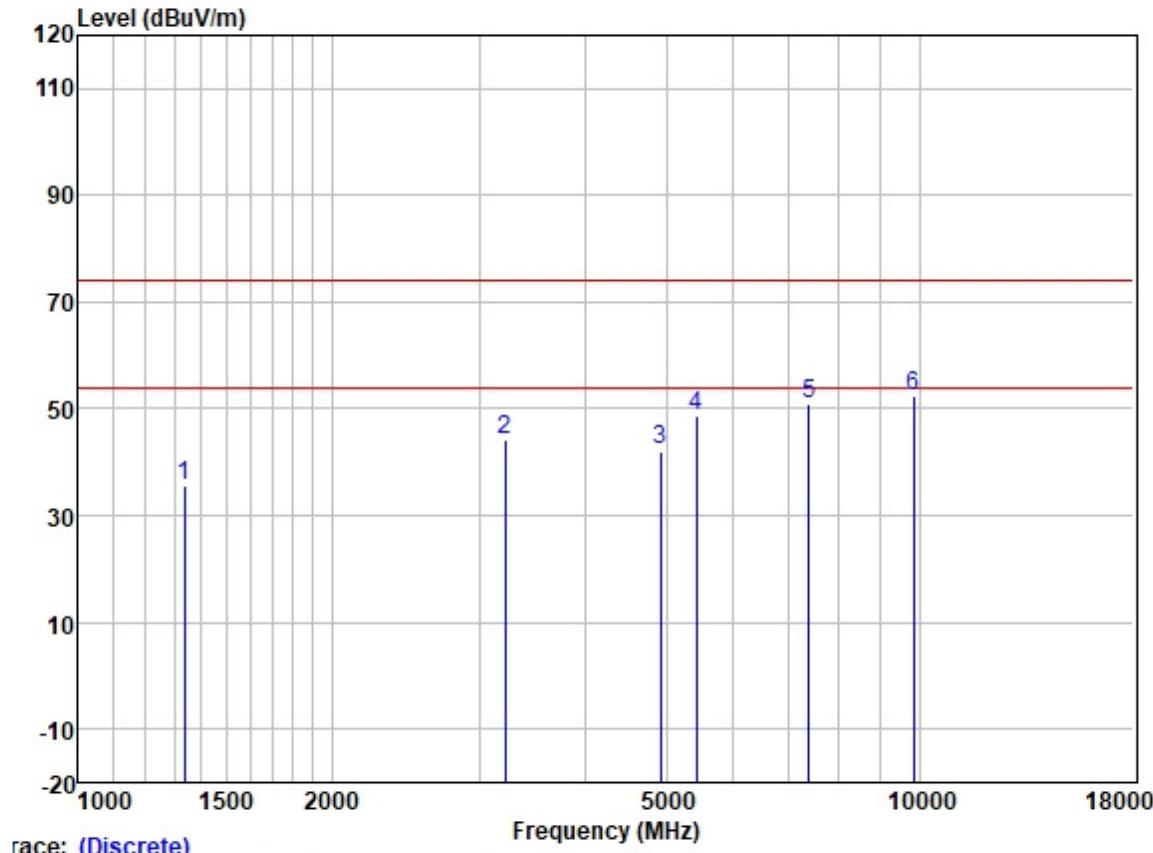
	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1142.575	47.28	24.47	2.30	38.42	35.63	74.00	-38.37	VERTICAL	Peak
2	3127.685	50.69	28.51	3.95	37.14	46.01	74.00	-27.99	VERTICAL	Peak
3	4874.000	43.01	31.54	5.50	36.84	43.21	74.00	-30.79	VERTICAL	Peak
4	6918.759	44.93	34.89	5.81	37.19	48.44	74.00	-25.56	VERTICAL	Peak
5	7311.000	44.99	35.93	6.11	37.42	49.61	74.00	-24.39	VERTICAL	Peak
6	9748.000	44.30	38.50	7.02	37.41	52.41	74.00	-21.59	VERTICAL	Peak

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



Race: (Discrete)

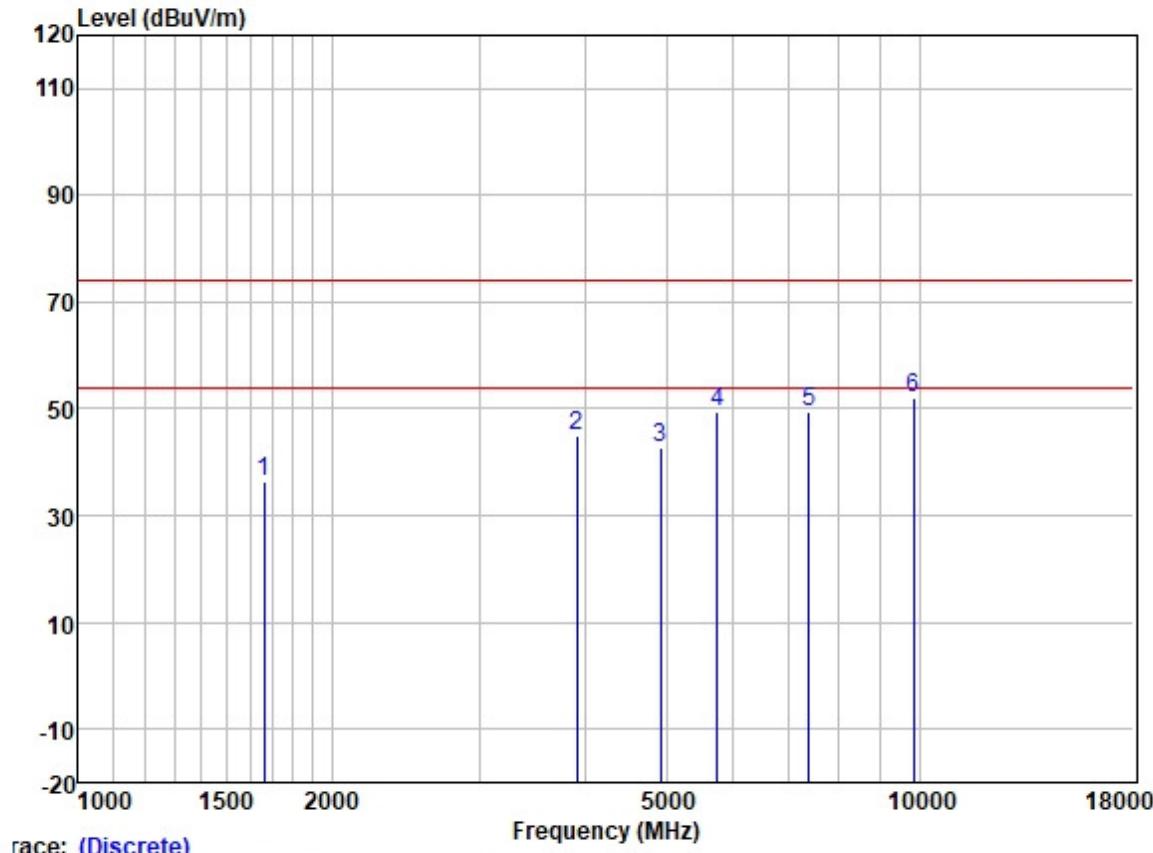
	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1338.352	46.02	25.29	2.60	38.27	35.64	74.00	-38.36	HORIZONTAL	Peak		
2	3214.288	48.65	28.61	4.01	37.07	44.20	74.00	-29.80	HORIZONTAL	Peak		
3	4924.000	41.78	31.62	5.60	36.84	42.16	74.00	-31.84	HORIZONTAL	Peak		
4	5435.475	47.66	31.79	6.20	36.88	48.77	74.00	-25.23	HORIZONTAL	Peak		
5	7386.000	45.95	36.17	6.19	37.45	50.86	74.00	-23.14	HORIZONTAL	Peak		
6	9848.000	44.21	38.58	6.99	37.41	52.37	74.00	-21.63	HORIZONTAL	Peak		

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



Race: (Discrete)

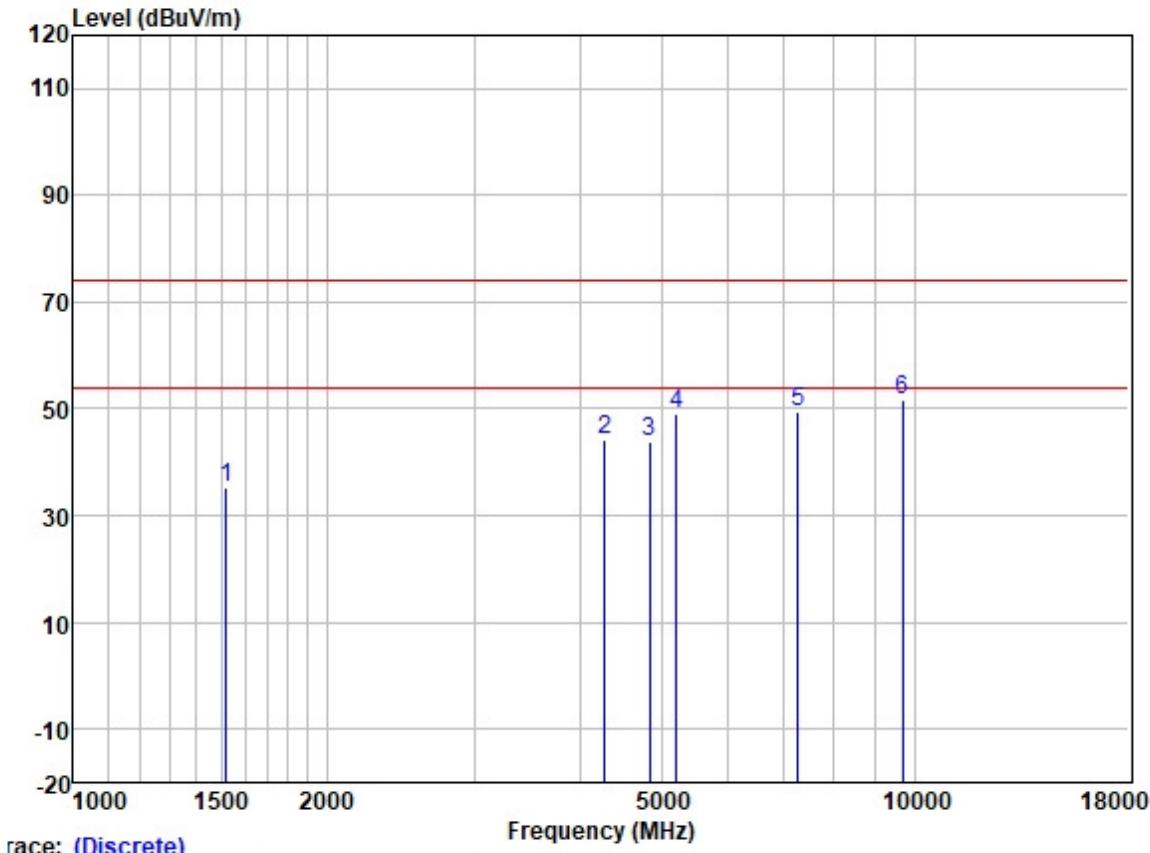
	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1661.880	45.72	25.65	2.80	37.93	36.24	74.00	-37.76	VERTICAL		Peak	
2	3910.096	47.66	29.70	4.60	36.82	45.14	74.00	-28.86	VERTICAL		Peak	
3	4924.000	42.16	31.62	5.60	36.84	42.54	74.00	-31.46	VERTICAL		Peak	
4	5755.576	48.18	32.13	6.15	36.89	49.57	74.00	-24.43	VERTICAL		Peak	
5	7386.000	44.67	36.17	6.19	37.45	49.58	74.00	-24.42	VERTICAL		Peak	
6	9848.000	43.83	38.58	6.99	37.41	51.99	74.00	-22.01	VERTICAL		Peak	

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



Race: (Discrete)

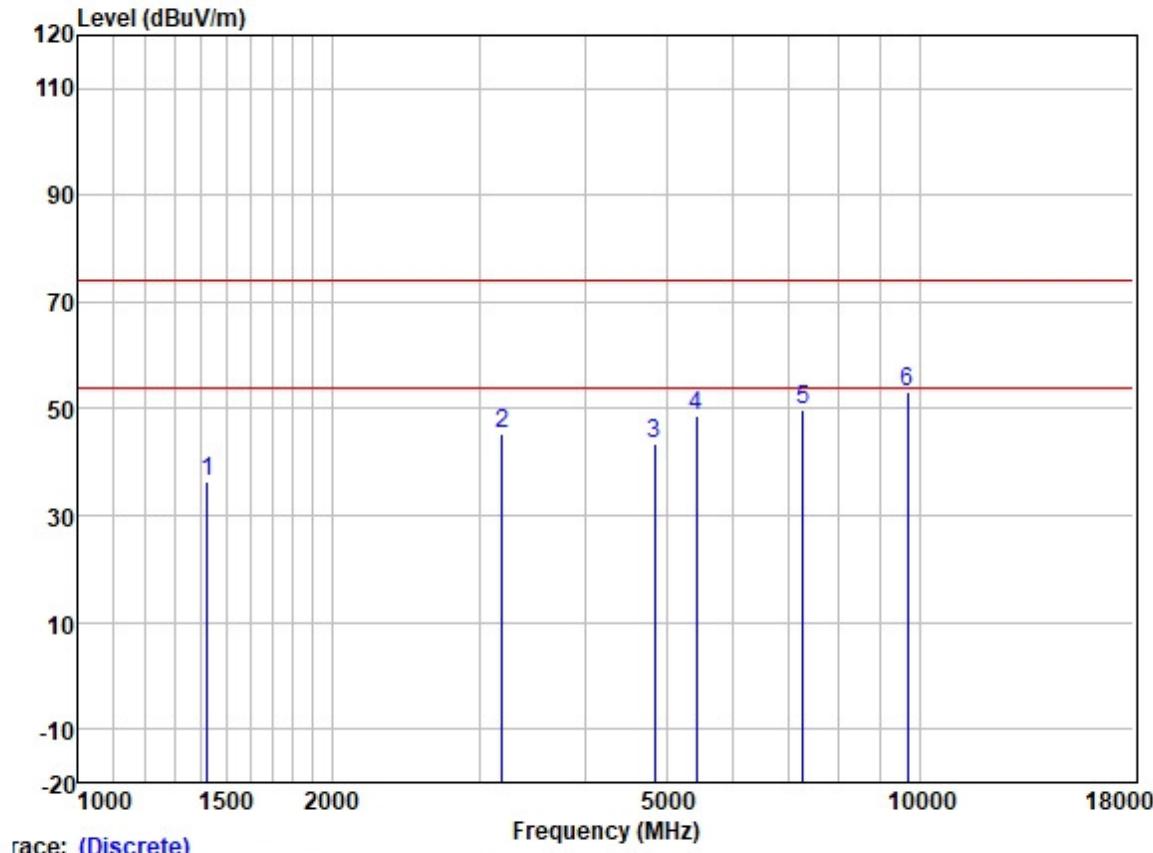
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1520.211	44.94	25.51	2.80	38.07	35.18	74.00	-38.82	HORIZONTAL	Peak
2	4288.282	45.97	30.45	4.64	36.81	44.25	74.00	-29.75	HORIZONTAL	Peak
3	4844.000	43.87	31.50	5.45	36.84	43.98	74.00	-30.02	HORIZONTAL	Peak
4	5209.922	48.68	31.74	5.65	36.87	49.20	74.00	-24.80	HORIZONTAL	Peak
5	7266.000	44.85	35.78	6.06	37.41	49.28	74.00	-24.72	HORIZONTAL	Peak
6	9688.000	43.70	38.44	7.04	37.42	51.76	74.00	-22.24	HORIZONTAL	Peak

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



Race: (Discrete)

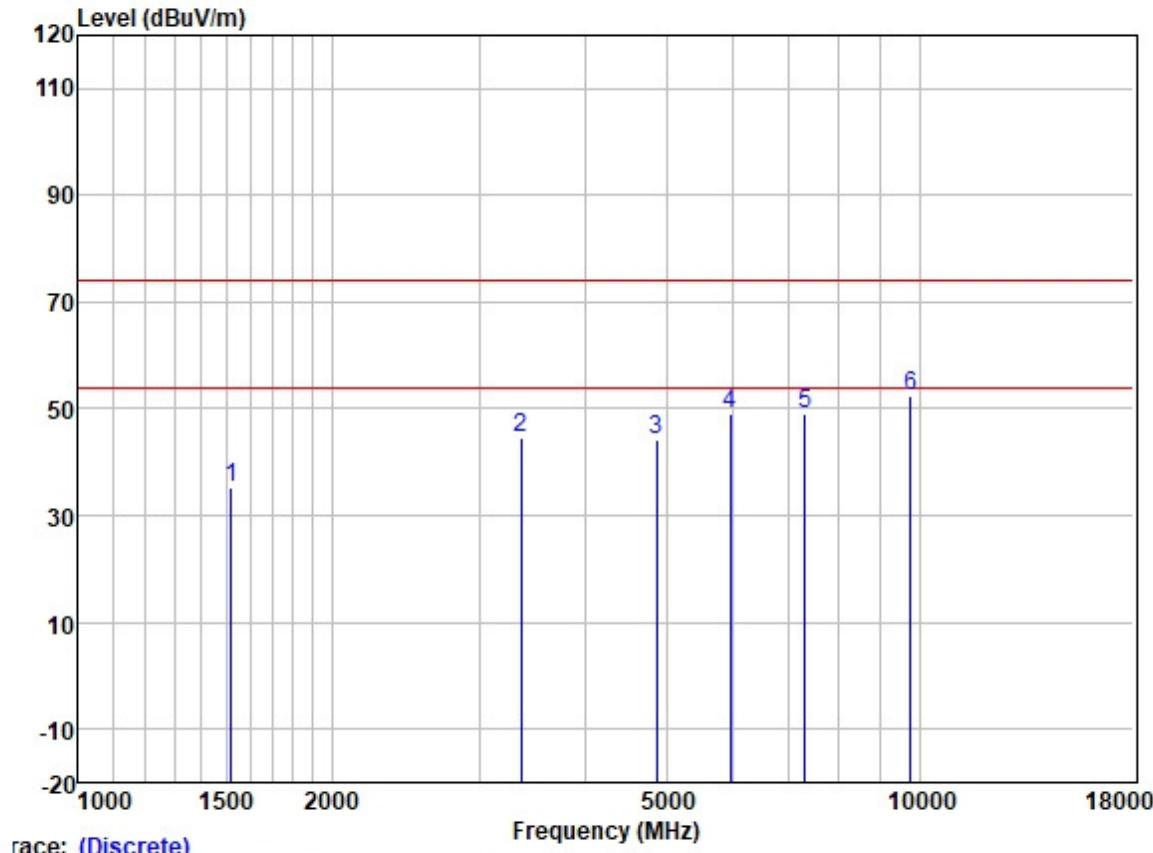
Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 1422.552	46.50	25.42	2.64	38.20	36.36	74.00	-37.64	VERTICAL	Peak	
2 3191.341	49.71	28.57	3.99	37.09	45.18	74.00	-28.82	VERTICAL	Peak	
3 4844.000	43.28	31.50	5.45	36.84	43.39	74.00	-30.61	VERTICAL	Peak	
4 5428.647	47.67	31.79	6.13	36.88	48.71	74.00	-25.29	VERTICAL	Peak	
5 7266.000	45.54	35.78	6.06	37.41	49.97	74.00	-24.03	VERTICAL	Peak	
6 9688.000	45.27	38.44	7.04	37.42	53.33	74.00	-20.67	VERTICAL	Peak	

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



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1519.255	45.19	25.51	2.80	38.07	35.43	74.00	-38.57	HORIZONTAL Peak
2	3358.120	48.61	28.81	4.09	37.01	44.50	74.00	-29.50	HORIZONTAL Peak
3	4874.000	44.05	31.54	5.50	36.84	44.25	74.00	-29.75	HORIZONTAL Peak
4	5955.545	47.46	32.36	6.05	36.90	48.97	74.00	-25.03	HORIZONTAL Peak
5	7311.000	44.43	35.93	6.11	37.42	49.05	74.00	-24.95	HORIZONTAL Peak
6	9748.000	44.37	38.50	7.02	37.41	52.48	74.00	-21.52	HORIZONTAL Peak

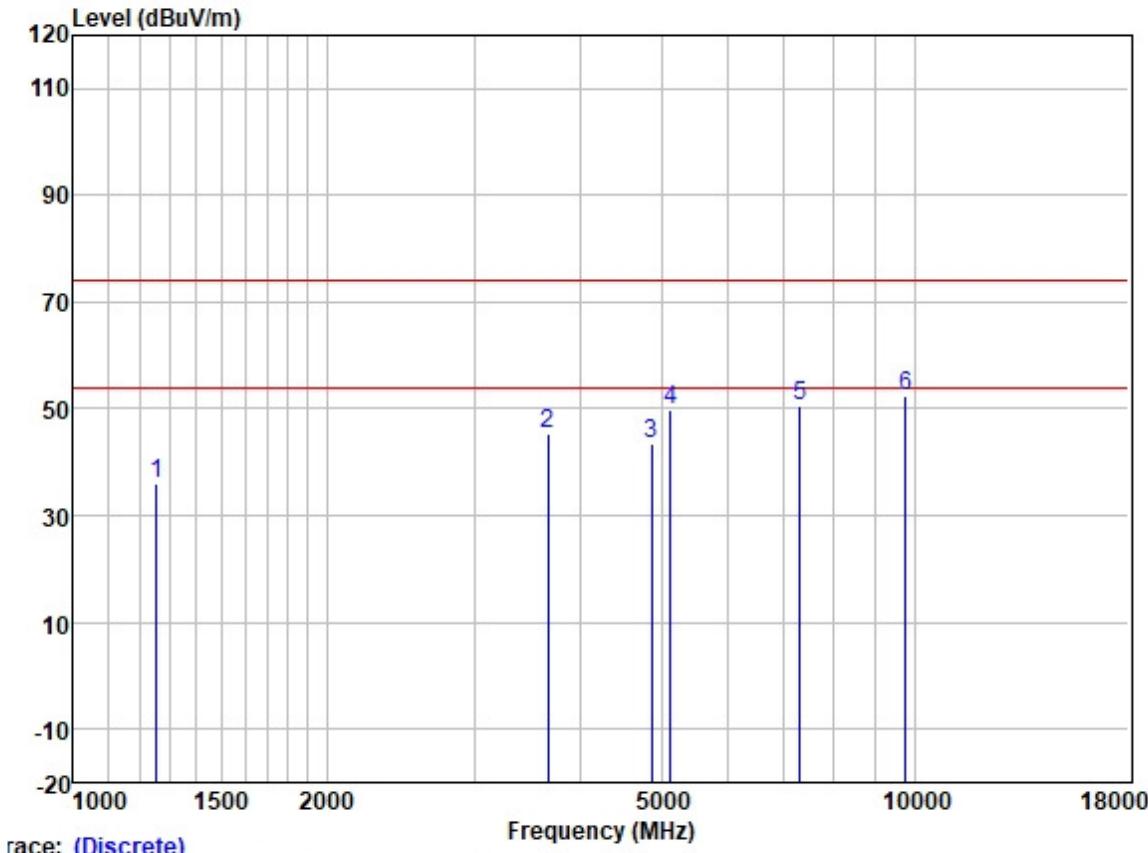
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Race: (Discrete)

	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1254.621	46.96	25.03	2.36	38.35	36.00	74.00	-38.00	VERTICAL	Peak
2	3662.539	48.37	29.15	4.53	36.88	45.17	74.00	-28.83	VERTICAL	Peak
3	4874.000	43.40	31.54	5.50	36.84	43.60	74.00	-30.40	VERTICAL	Peak
4	5129.353	49.18	31.72	5.63	36.86	49.67	74.00	-24.33	VERTICAL	Peak
5	7311.000	46.11	35.93	6.11	37.42	50.73	74.00	-23.27	VERTICAL	Peak
6	9748.000	44.44	38.50	7.02	37.41	52.55	74.00	-21.45	VERTICAL	Peak

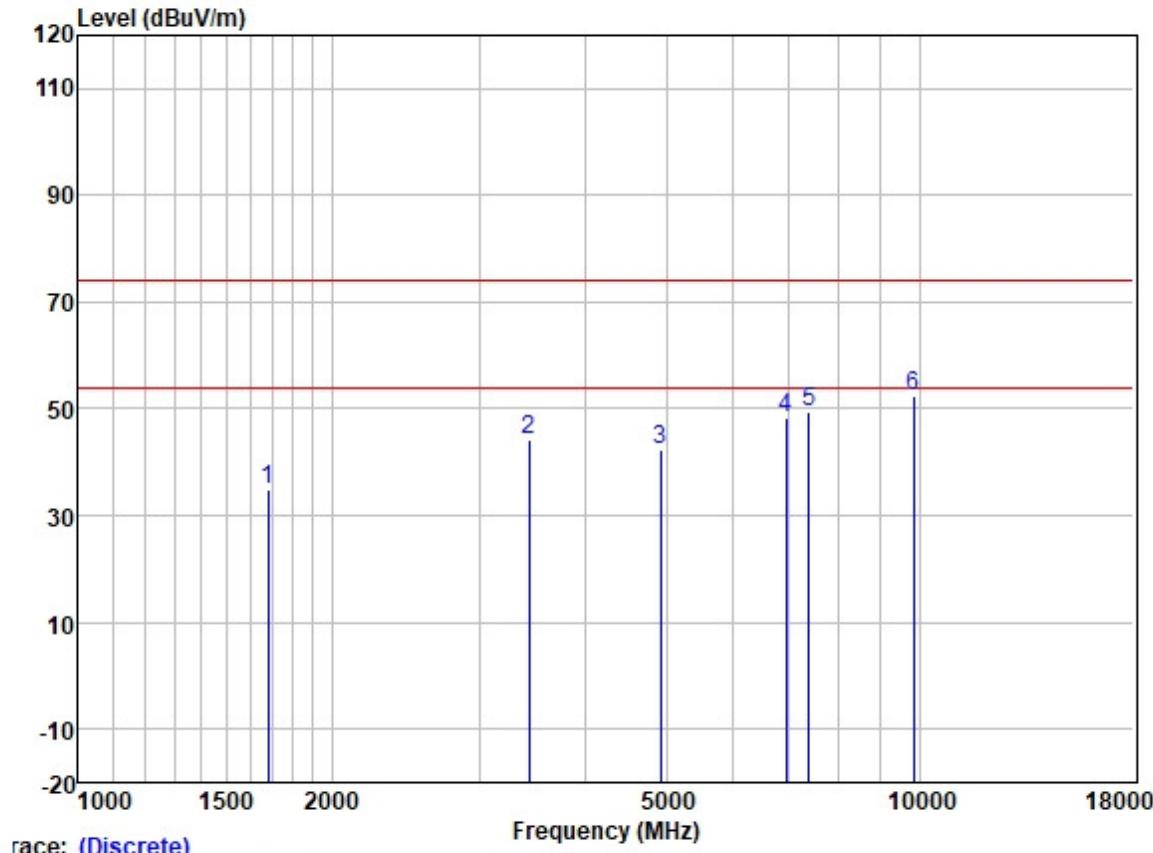
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.843	44.45	25.68	2.80	37.91	35.02	74.00	-38.98	HORIZONTAL	Peak
2	3437.963	48.30	28.87	4.16	36.96	44.37	74.00	-29.63	HORIZONTAL	Peak
3	4924.000	41.82	31.62	5.60	36.84	42.20	74.00	-31.80	HORIZONTAL	Peak
4	6945.285	44.82	34.95	5.81	37.21	48.37	74.00	-25.63	HORIZONTAL	Peak
5	7386.000	44.55	36.17	6.19	37.45	49.46	74.00	-24.54	HORIZONTAL	Peak
6	9848.000	44.32	38.58	6.99	37.41	52.48	74.00	-21.52	HORIZONTAL	Peak

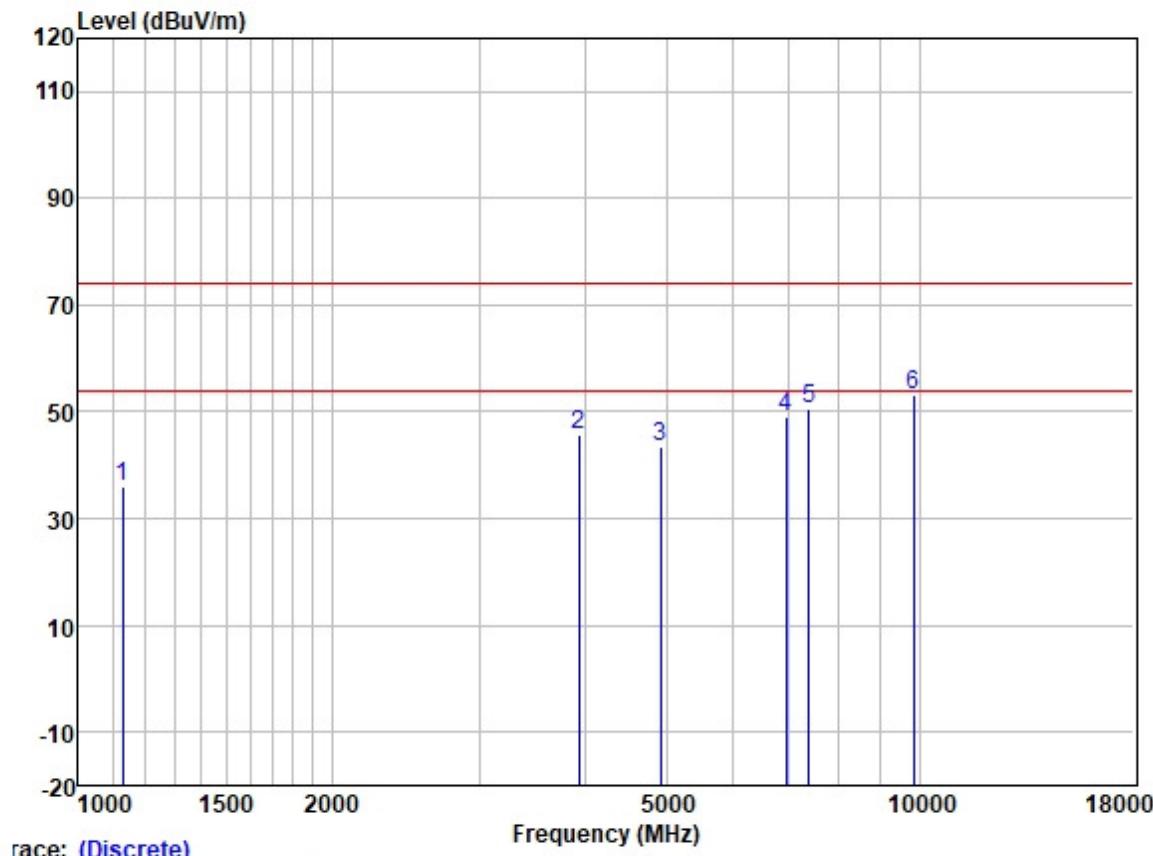
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Mode: (Discrete)

	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	1129.770	47.66	24.43	2.20	38.43	35.86	74.00	-38.14	VERTICAL	Peak	
2	3939.625	48.15	29.73	4.60	36.81	45.67	74.00	-28.33	VERTICAL	Peak	
3	4924.000	43.17	31.62	5.60	36.84	43.55	74.00	-30.45	VERTICAL	Peak	
4	6945.912	45.52	34.95	5.81	37.21	49.07	74.00	-24.93	VERTICAL	Peak	
5	7386.000	45.65	36.17	6.19	37.45	50.56	74.00	-23.44	VERTICAL	Peak	
6	9848.000	44.95	38.58	6.99	37.41	53.11	74.00	-20.89	VERTICAL	Peak	

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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR2109021039AT



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## 9 EUT Constructional Details (EUT Photos)

Refer to external and internal photos for GZCR2109021039AT



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## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

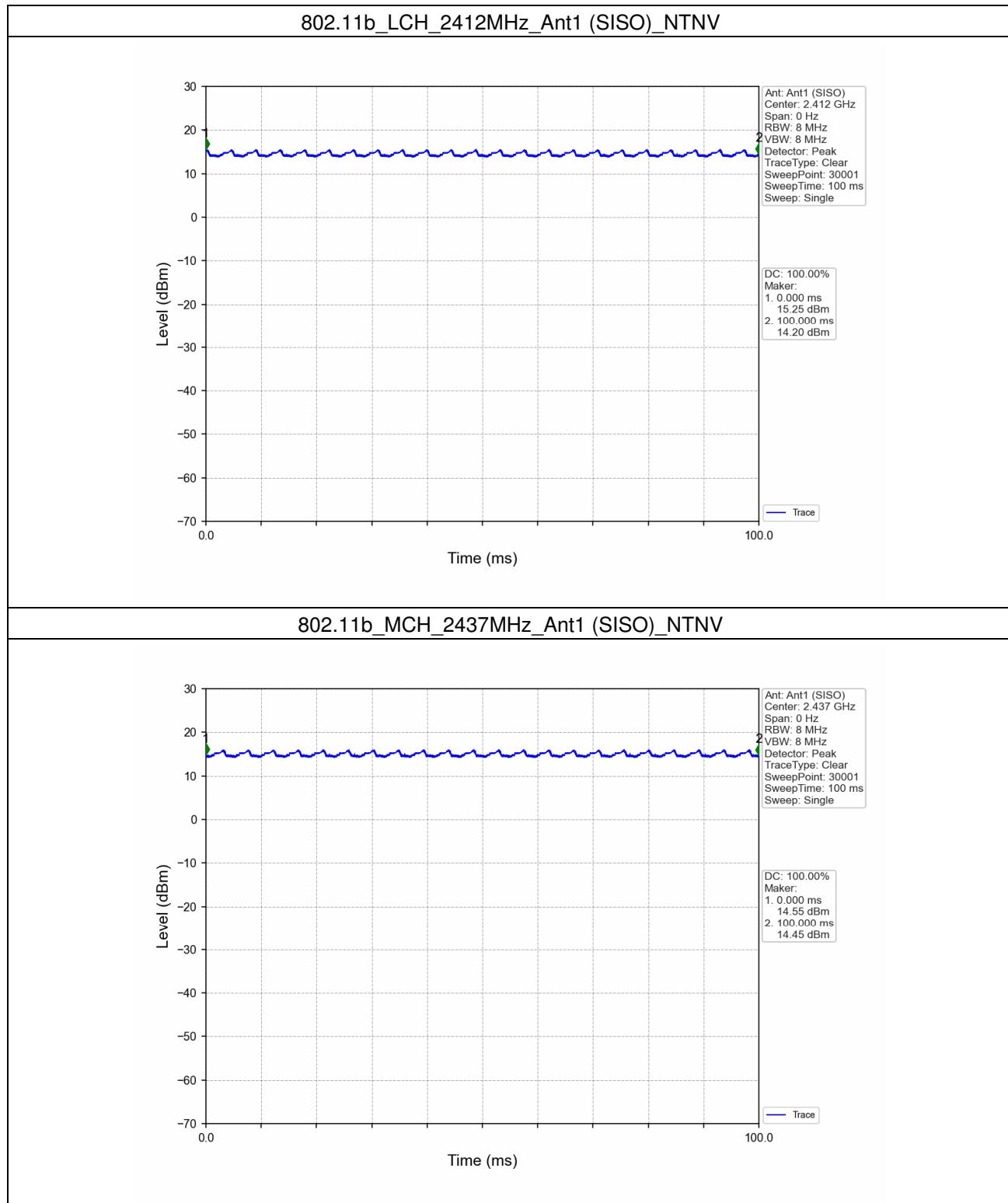
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	100.000	100.000	100.00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

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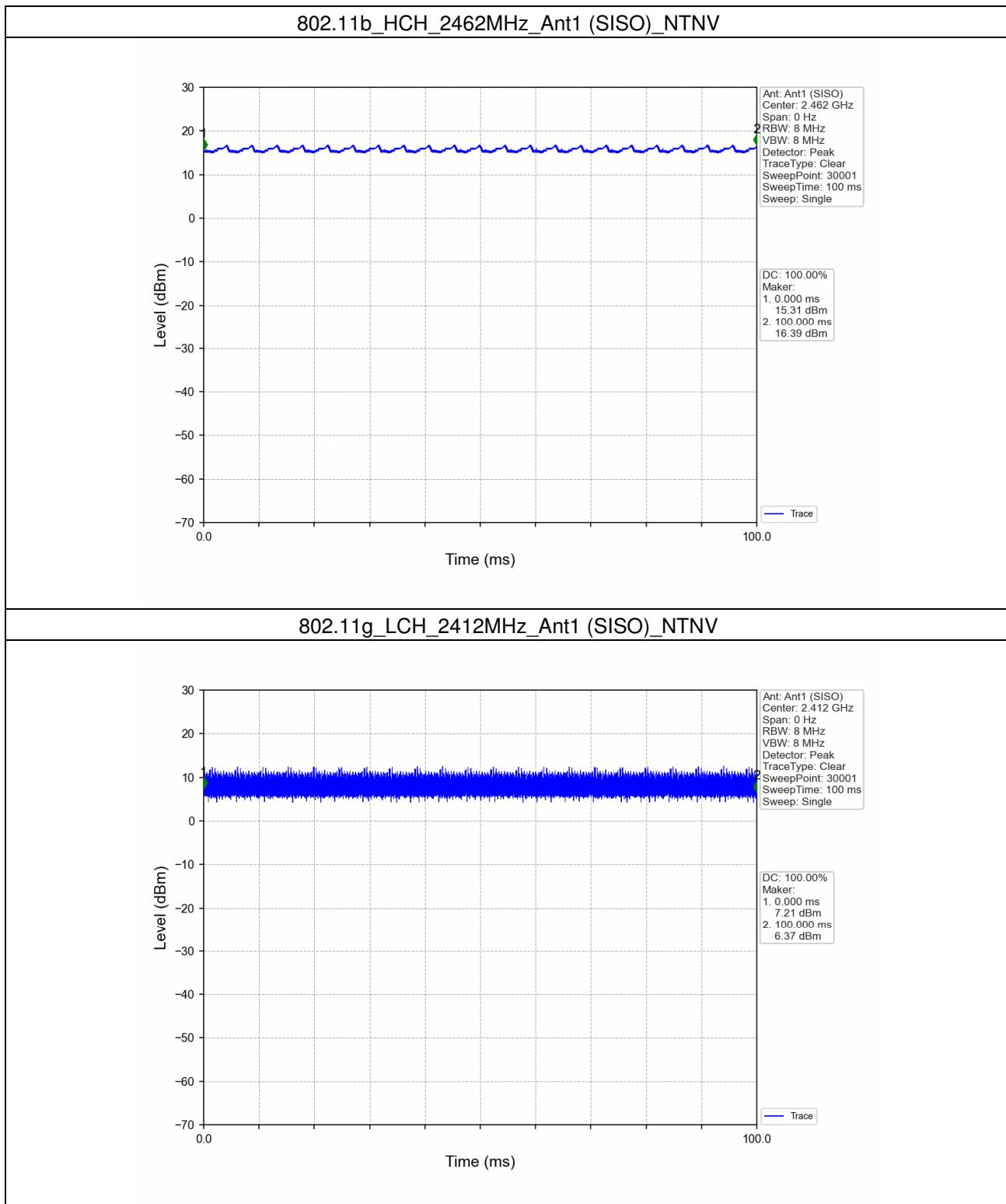


### 1.1.2 Test Graph



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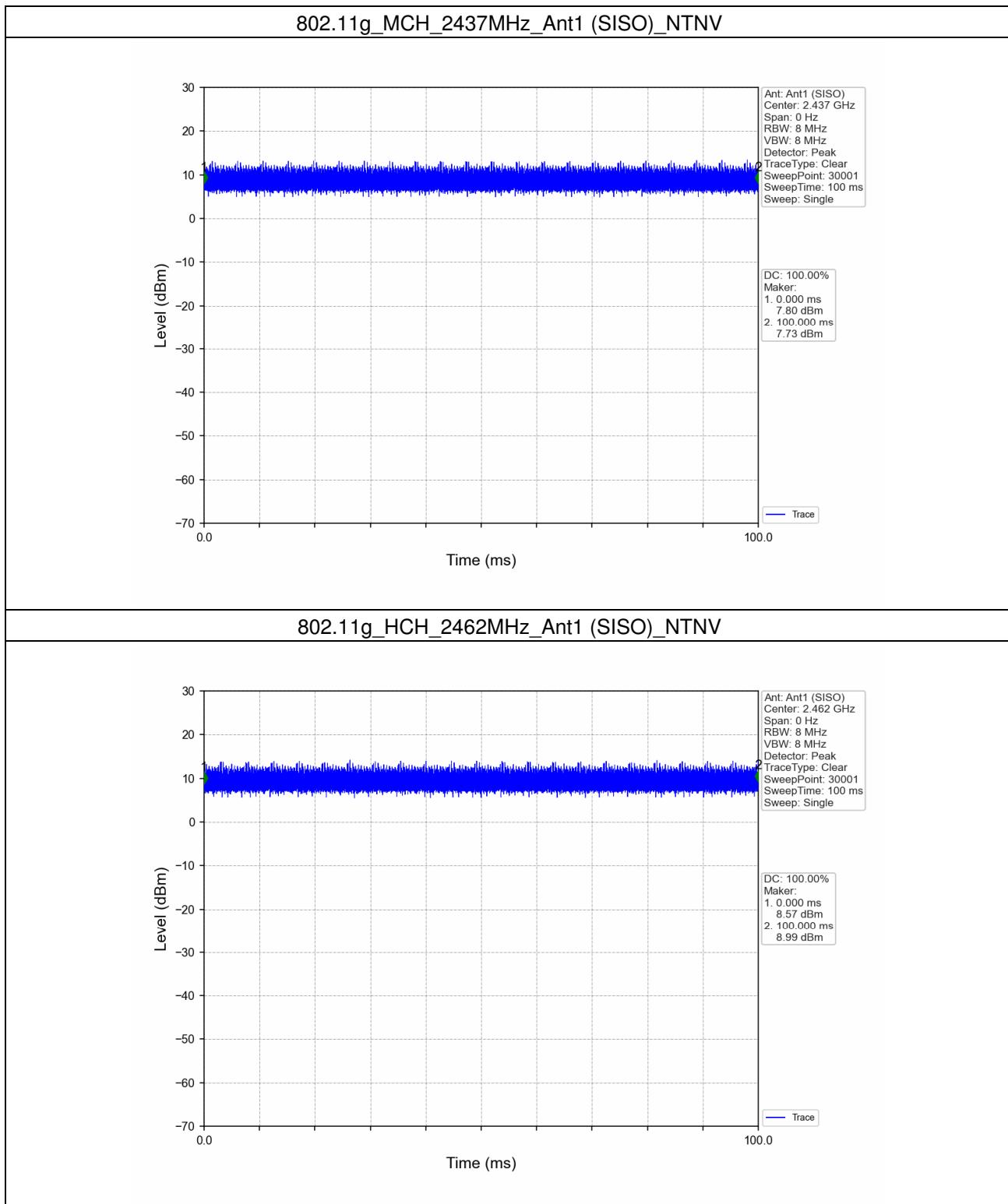


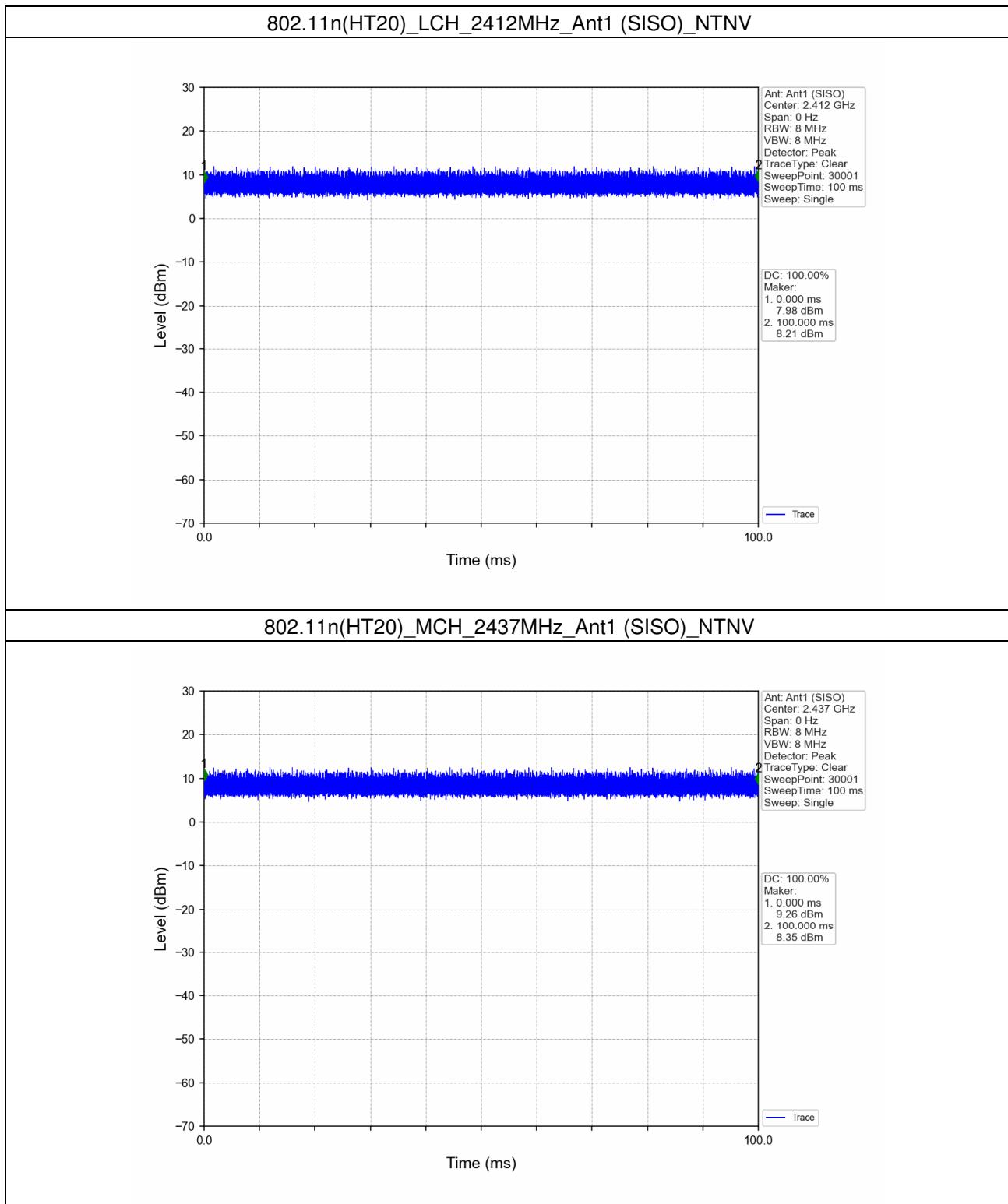
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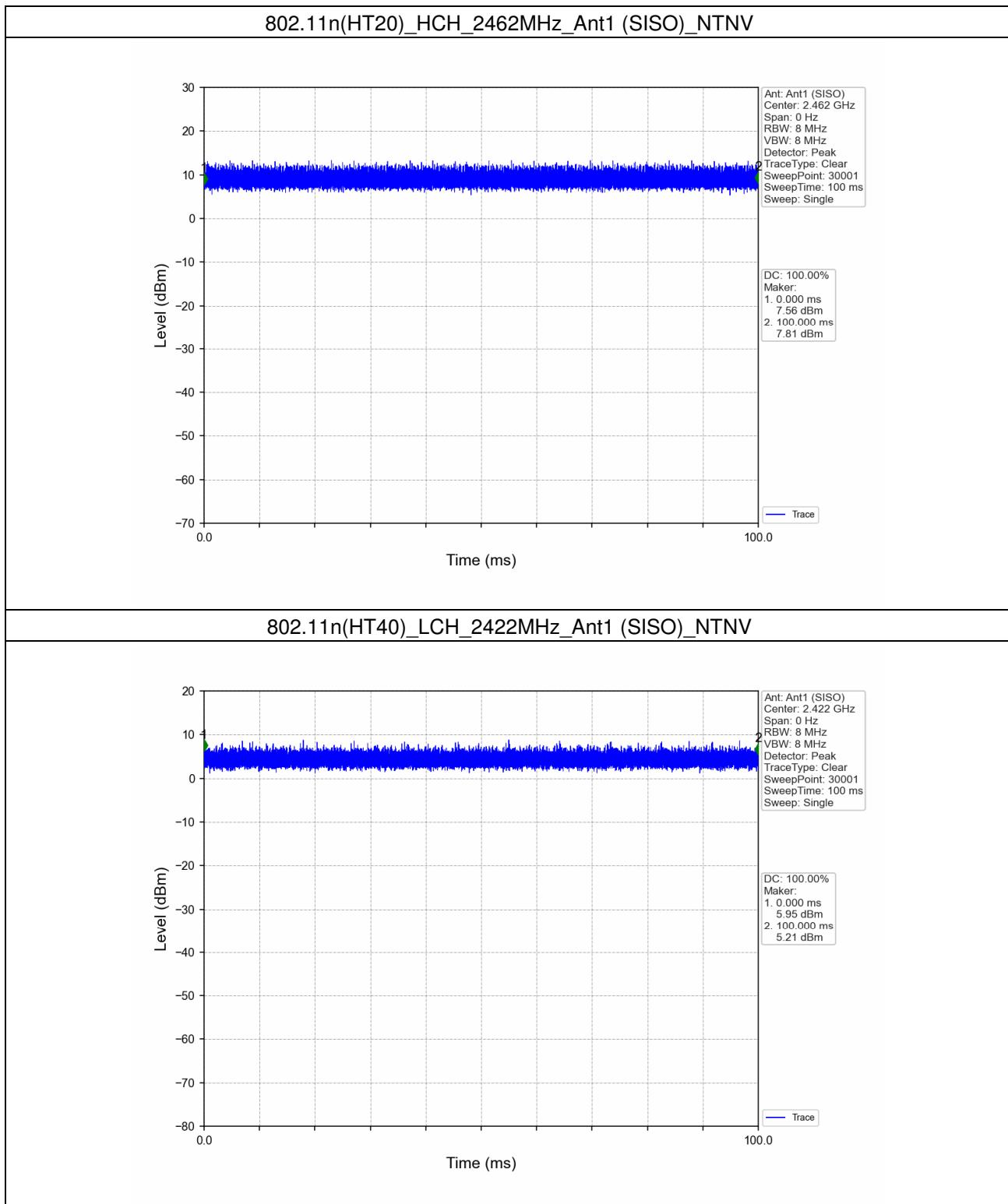
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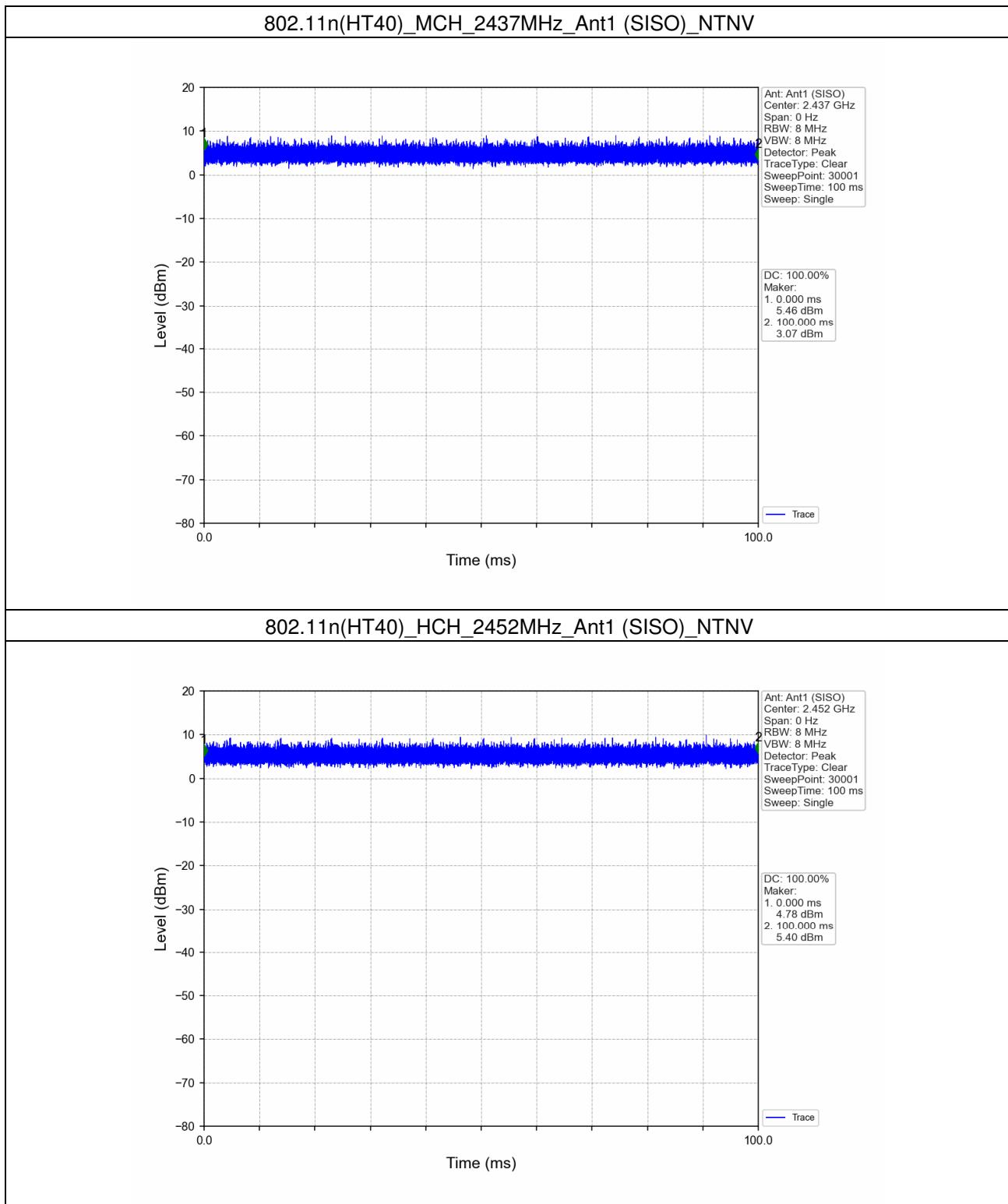


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**2. Bandwidth****2.1 6dB BW****2.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.088	>=0.5	Pass
		2437	1	10.095	>=0.5	Pass
		2462	1	10.085	>=0.5	Pass
802.11g	SISO	2412	1	16.607	>=0.5	Pass
		2437	1	16.606	>=0.5	Pass
		2462	1	16.605	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.787	>=0.5	Pass
		2437	1	17.804	>=0.5	Pass
		2462	1	17.802	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	36.385	>=0.5	Pass
		2437	1	36.374	>=0.5	Pass
		2452	1	36.353	>=0.5	Pass

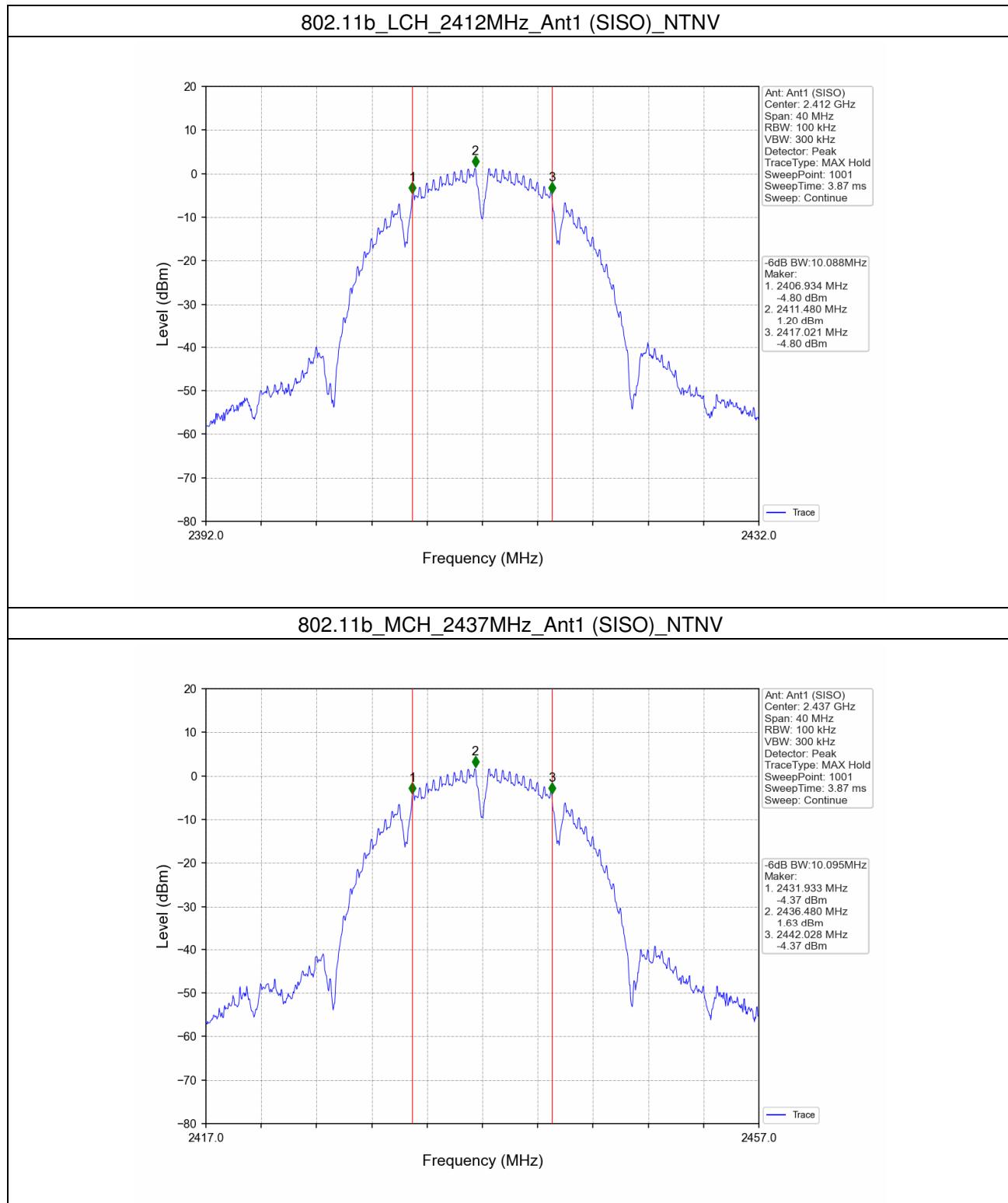
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## 2.2.2 Test Graph

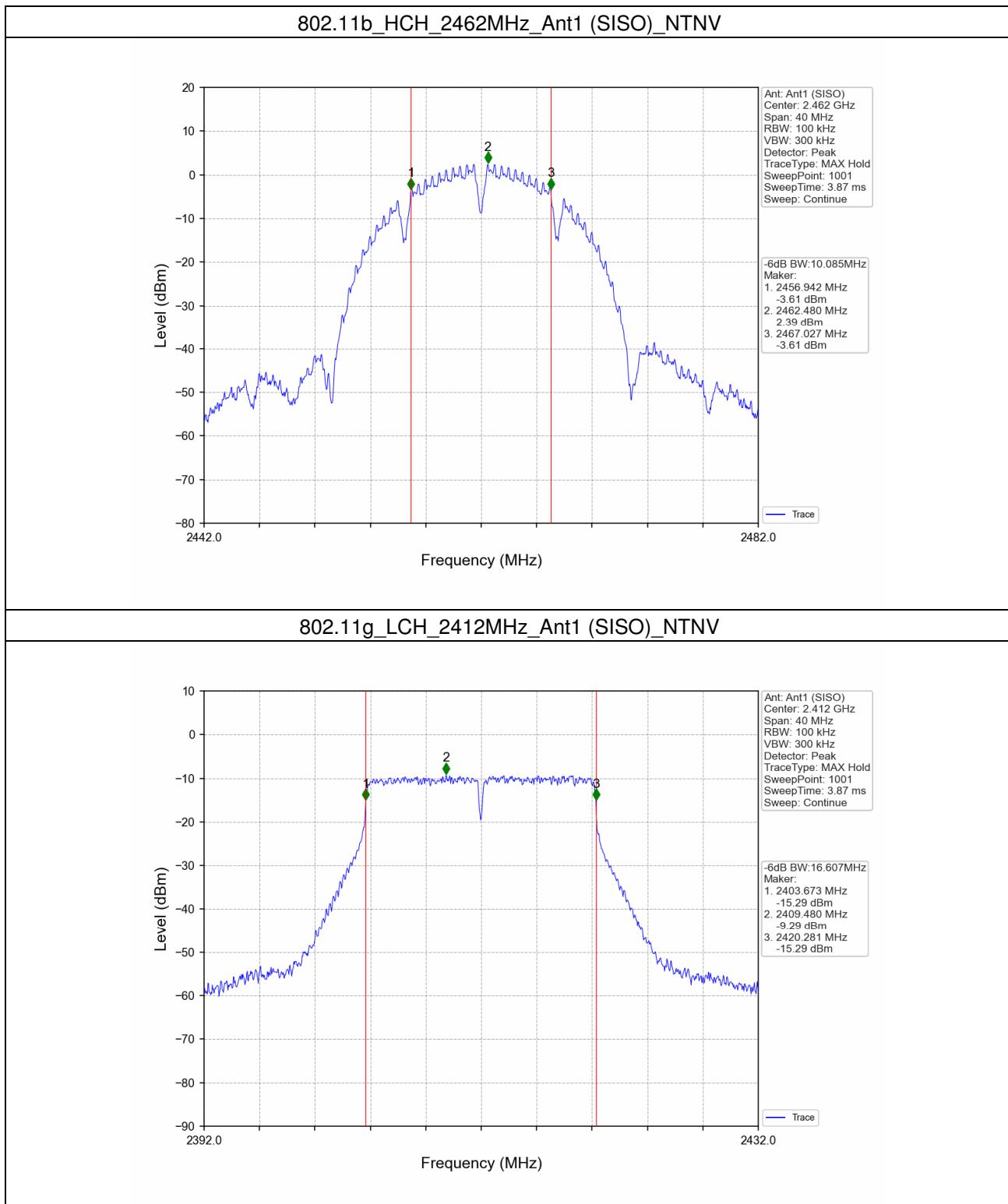


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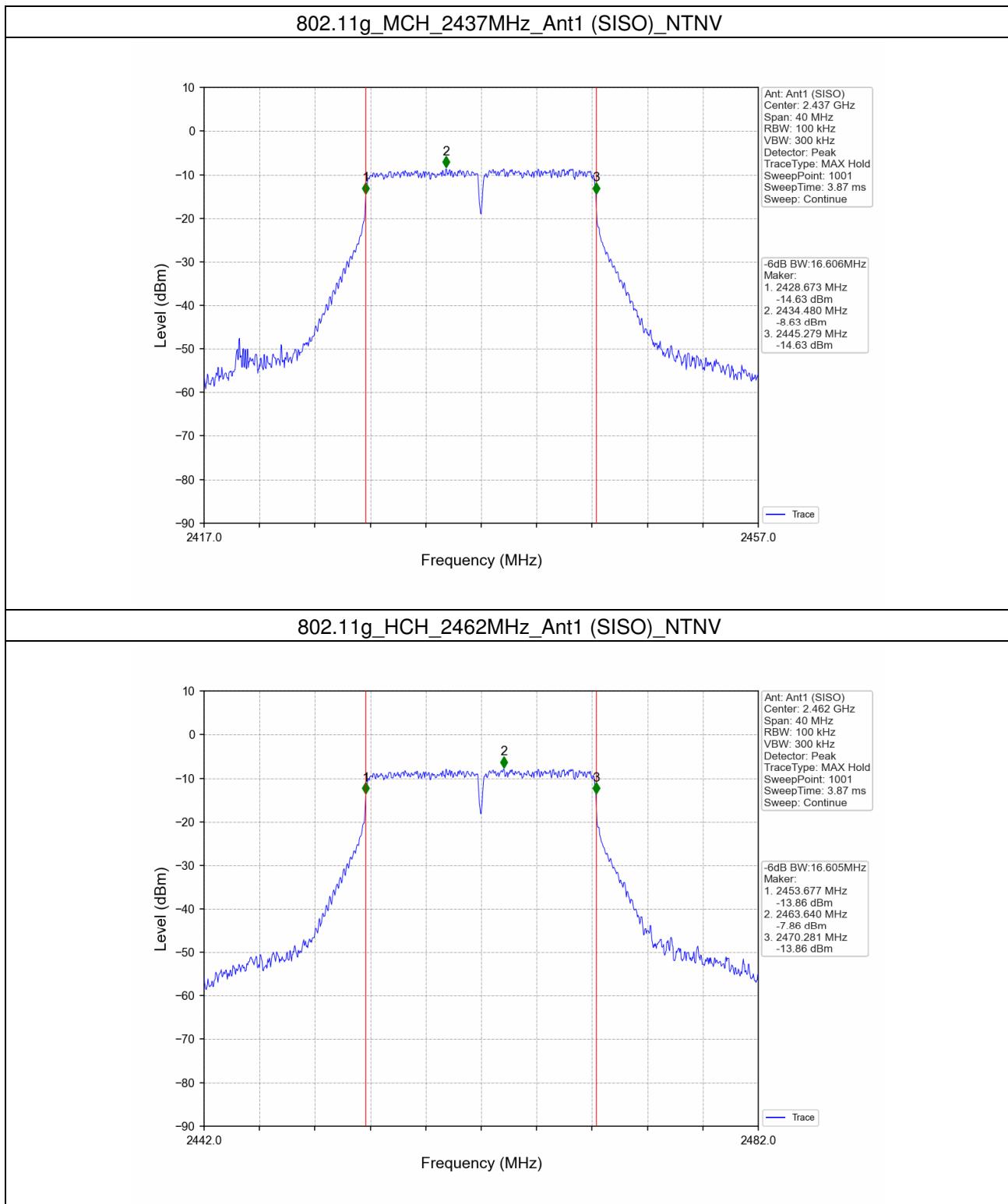


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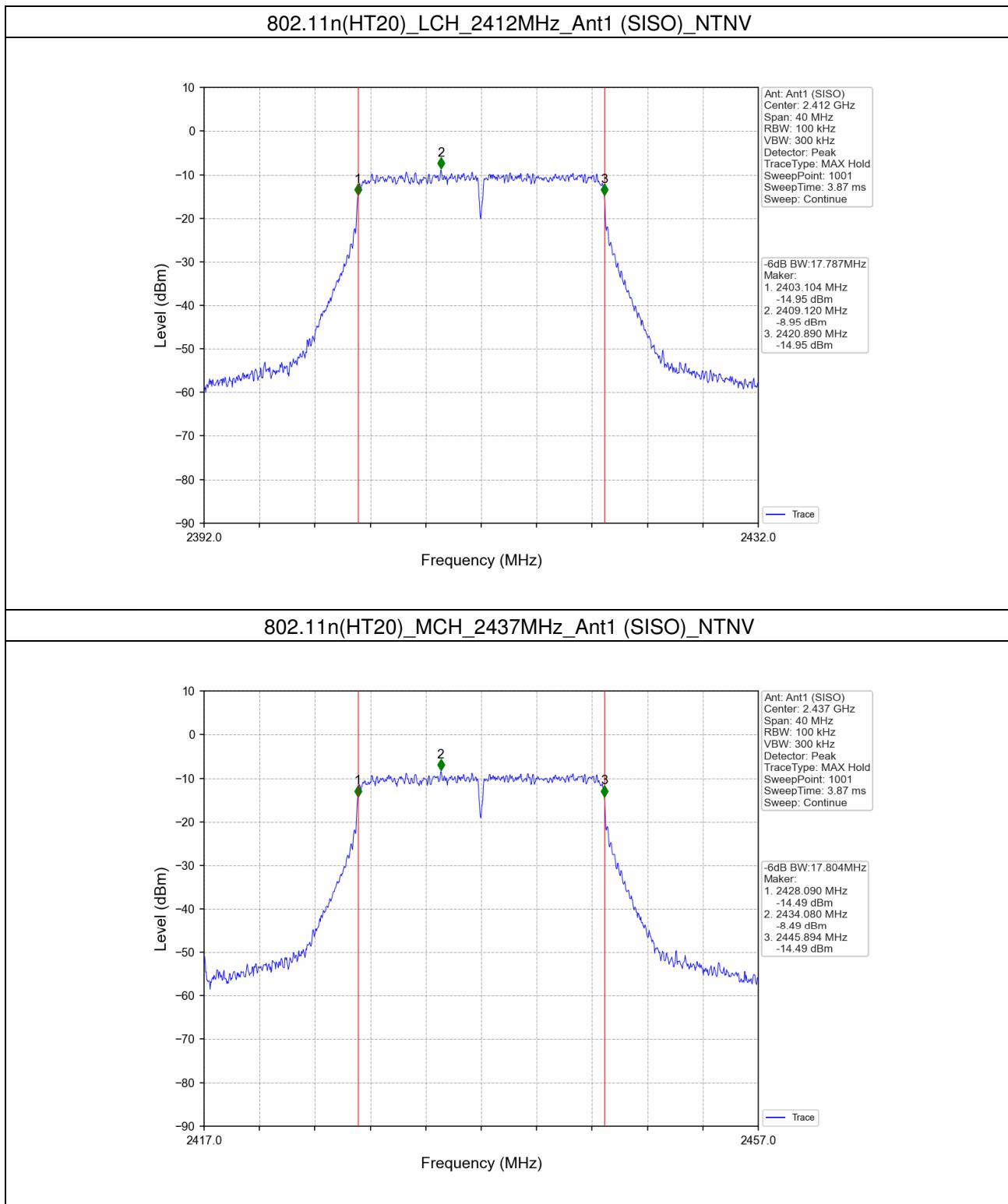


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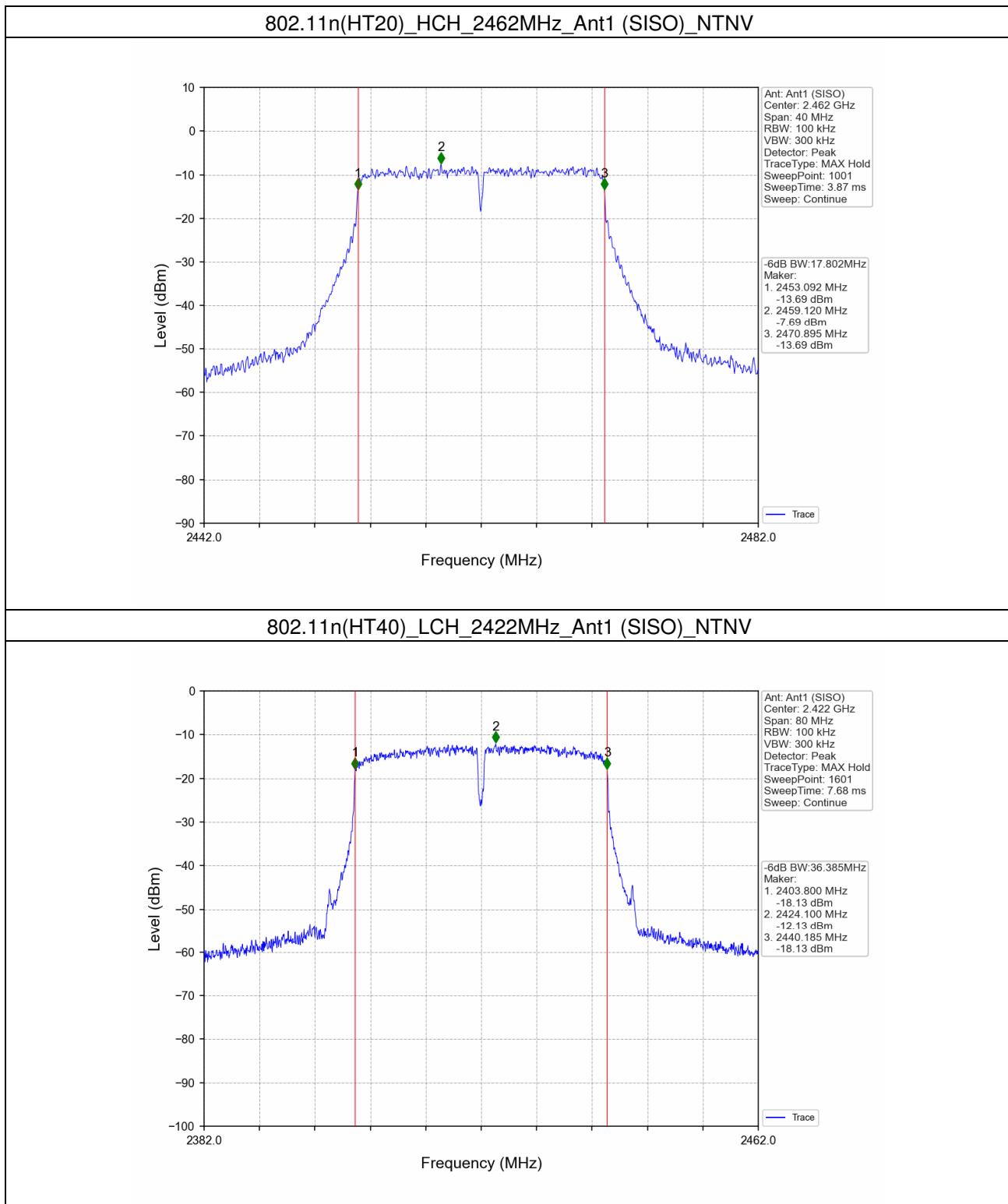


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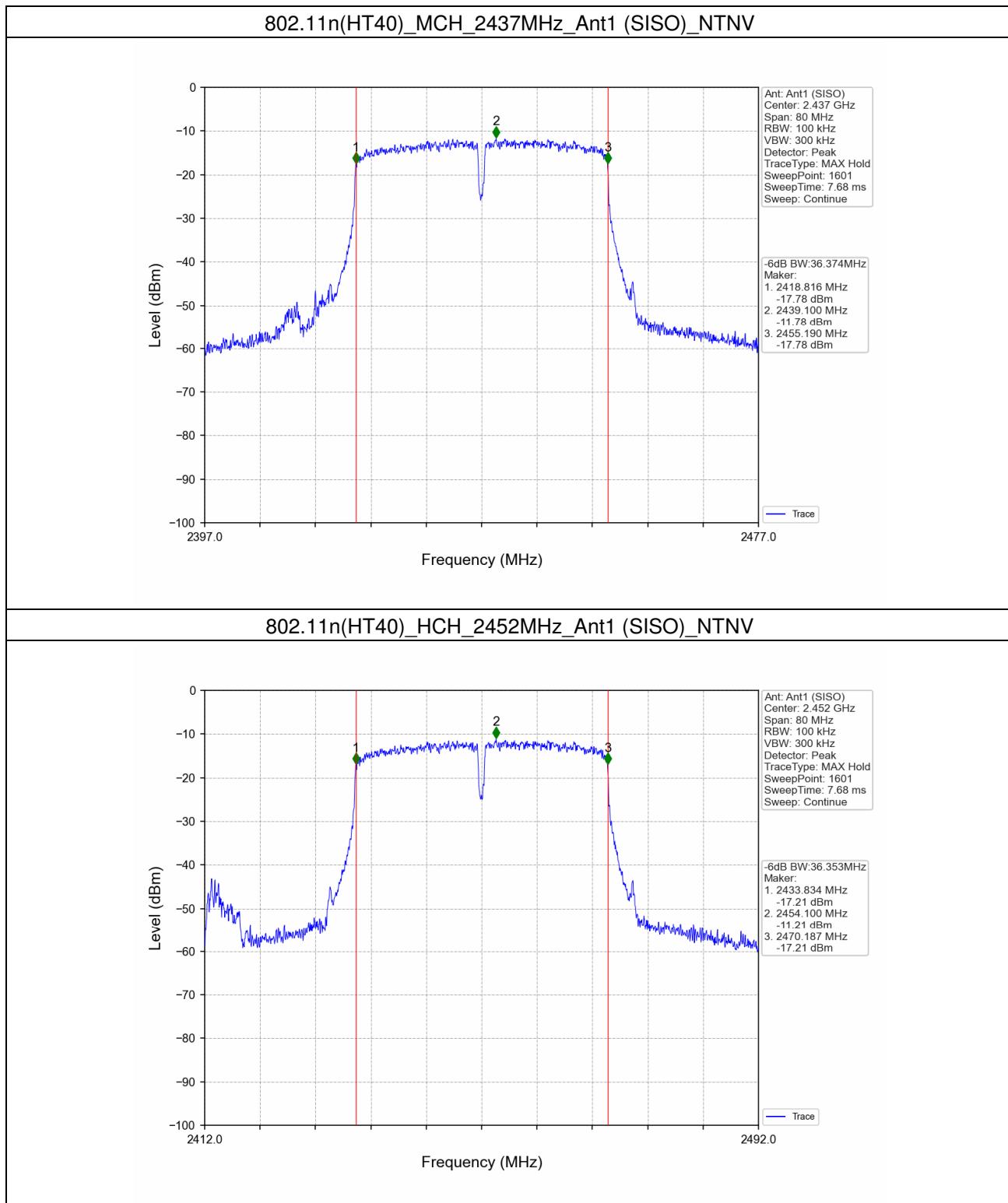


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**3. Maximum Conducted Output Power****3.1 Power****3.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	10.94	<=30	Pass
		2437	11.44	<=30	Pass
		2462	12.13	<=30	Pass
802.11g	SISO	2412	5.13	<=30	Pass
		2437	5.81	<=30	Pass
		2462	6.55	<=30	Pass
802.11n (HT20)	SISO	2412	5.03	<=30	Pass
		2437	5.62	<=30	Pass
		2462	6.42	<=30	Pass
802.11n (HT40)	SISO	2422	4.82	<=30	Pass
		2437	5.18	<=30	Pass
		2452	5.69	<=30	Pass

Note1: Antenna Gain: Ant1: 3.00dBi;

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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	-18.96	<=8	Pass
		2437	-18.45	<=8	Pass
		2462	-17.75	<=8	Pass
802.11g	SISO	2412	-23.29	<=8	Pass
		2437	-23.00	<=8	Pass
		2462	-21.93	<=8	Pass
802.11n (HT20)	SISO	2412	-23.04	<=8	Pass
		2437	-22.51	<=8	Pass
		2462	-21.74	<=8	Pass
802.11n (HT40)	SISO	2422	-22.77	<=8	Pass
		2437	-24.56	<=8	Pass
		2452	-22.71	<=8	Pass

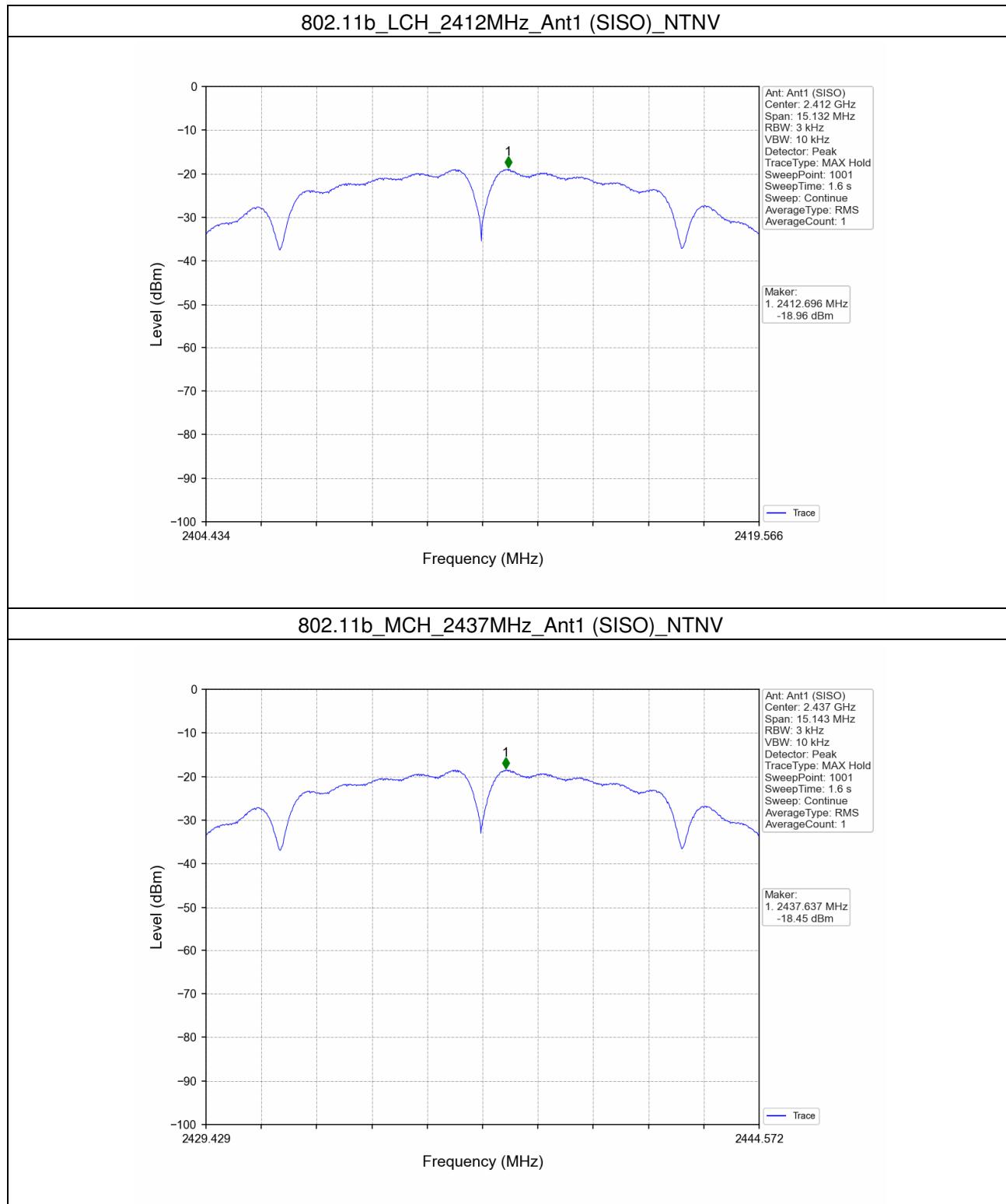
Note1: Antenna Gain: Ant1: 3.00dBi;

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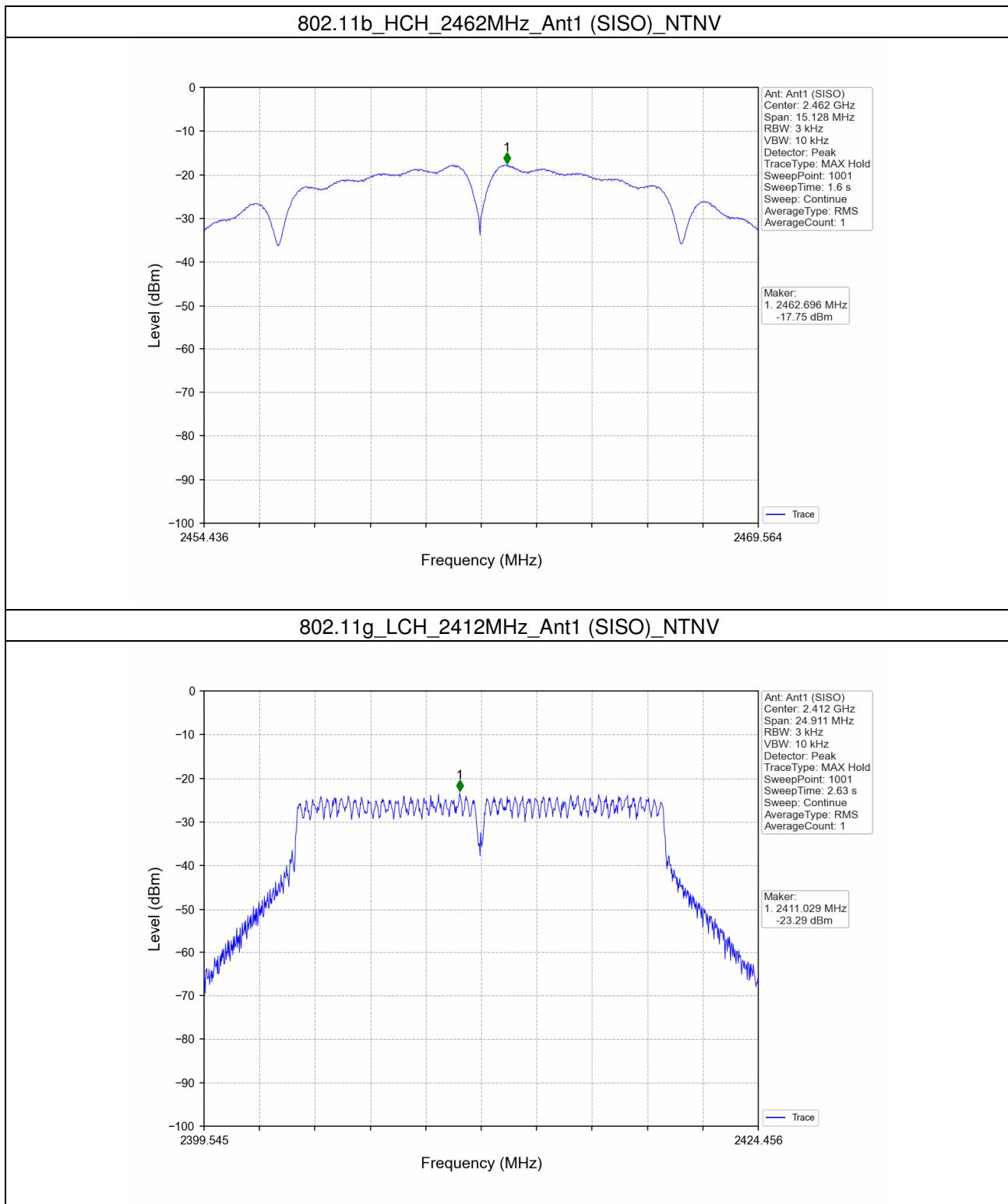


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**4.1.2 Test Graph**

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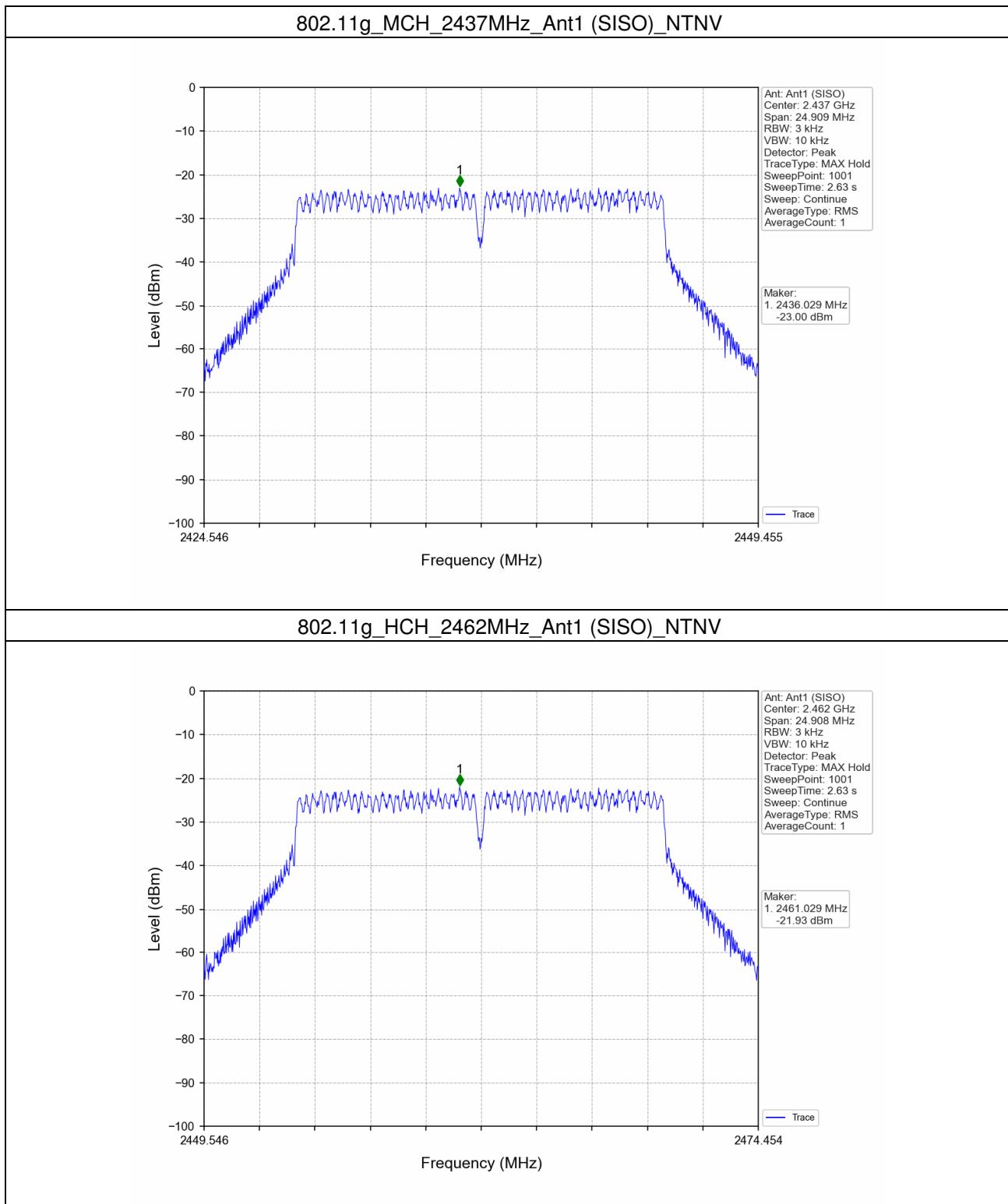


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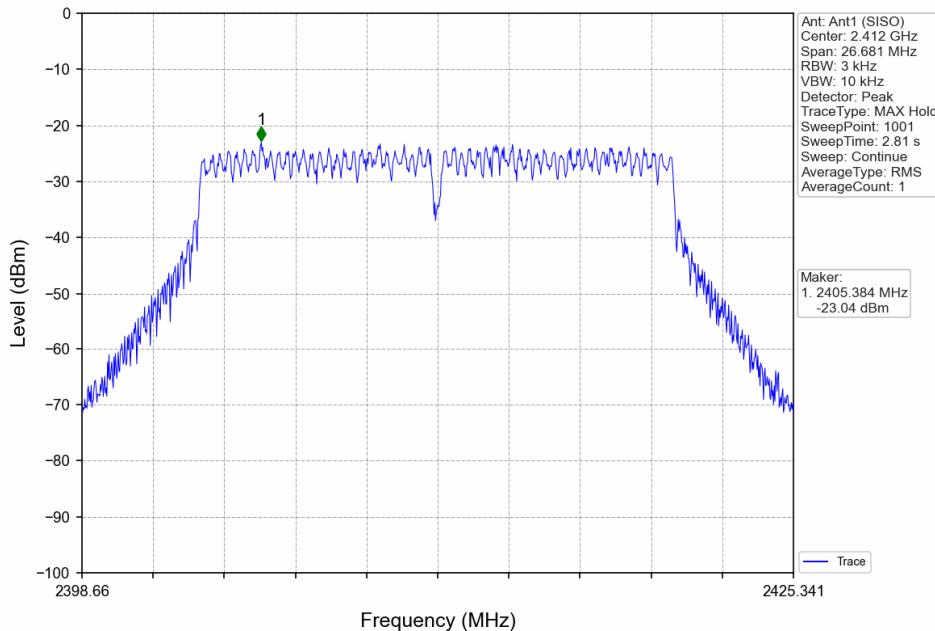
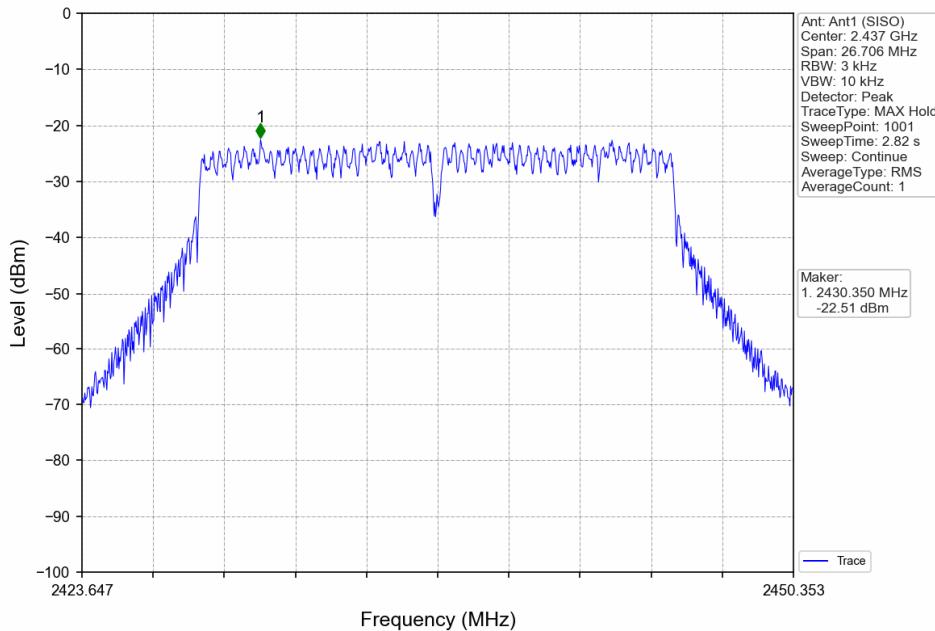


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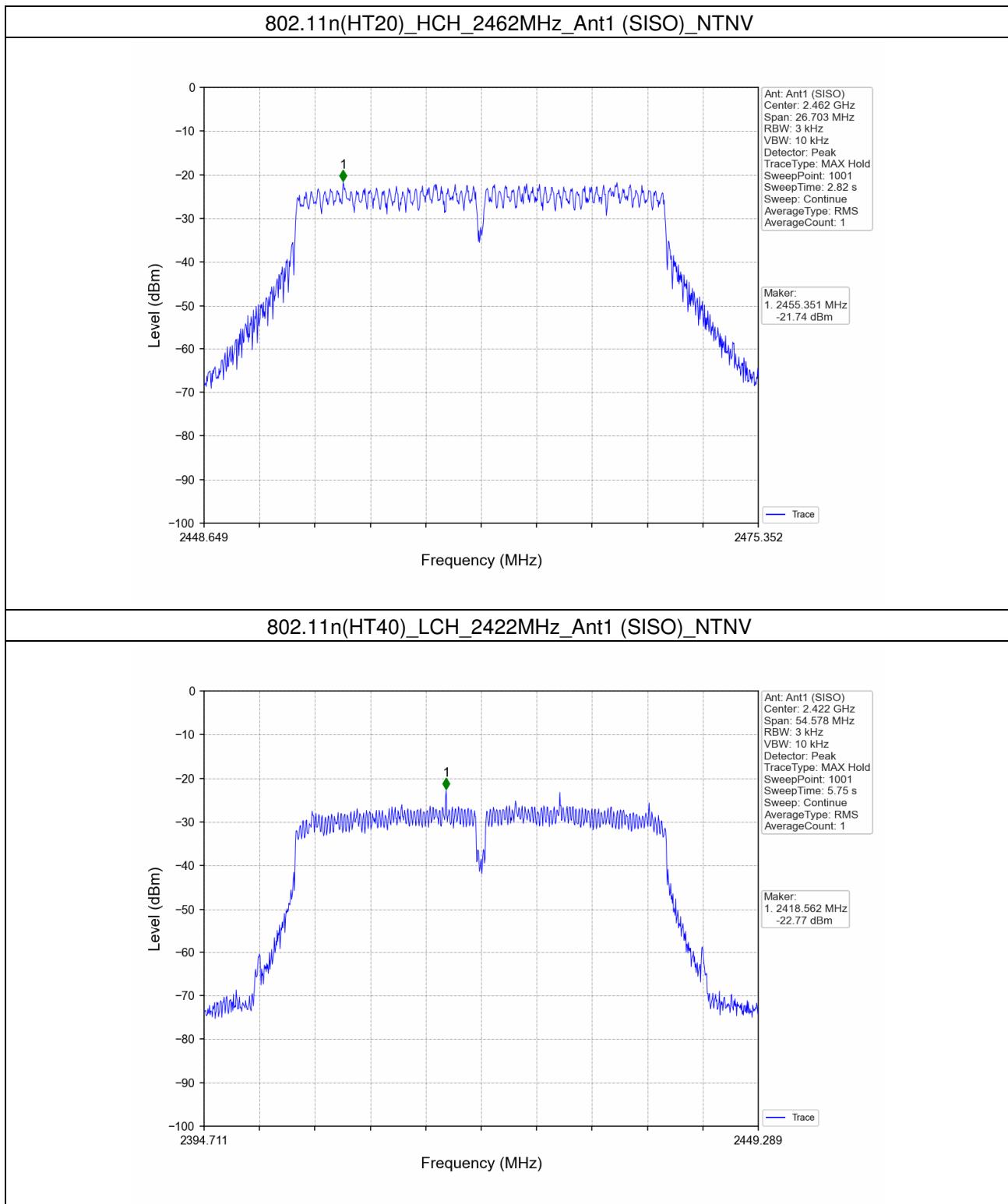
**802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV****802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV**

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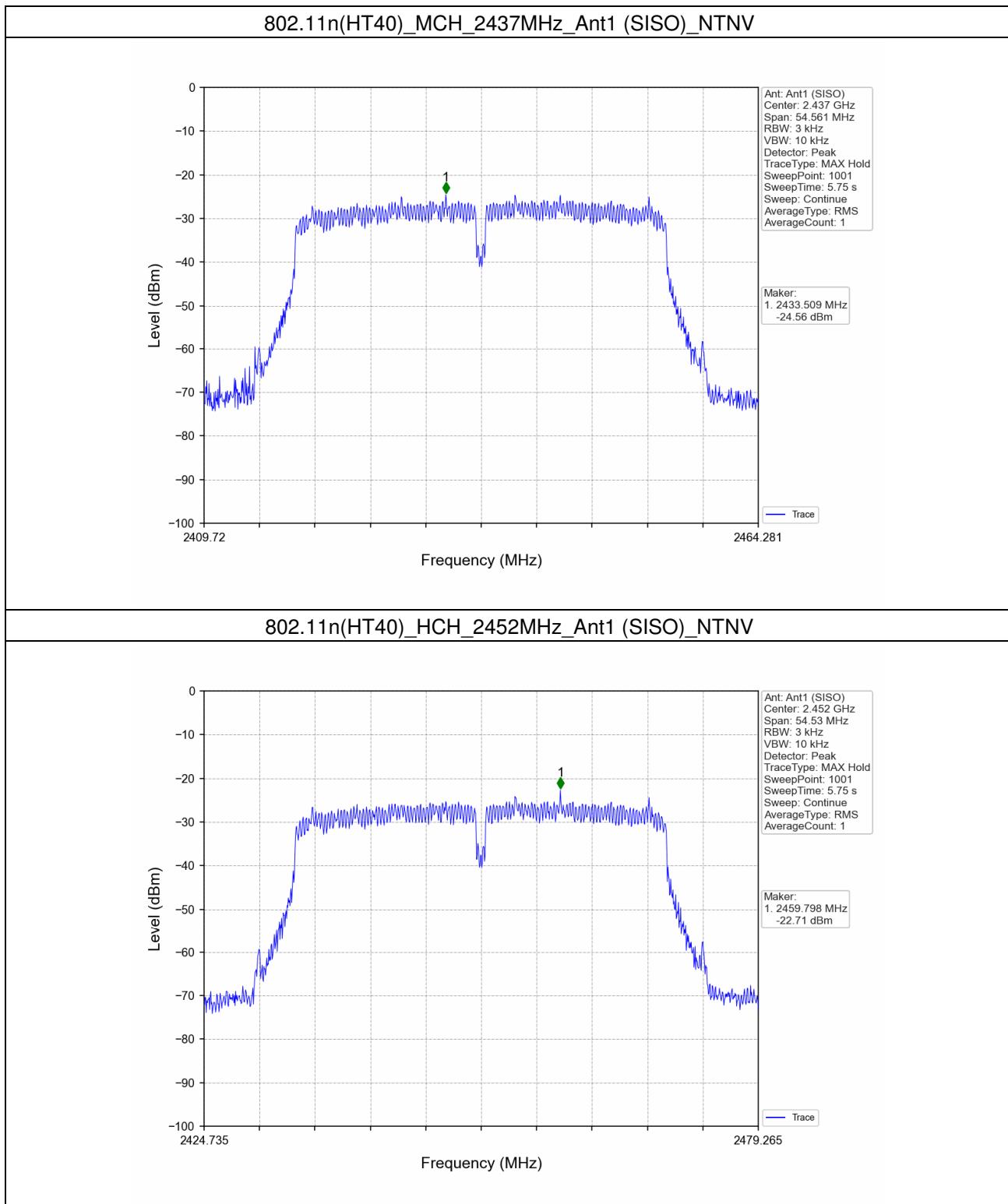


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**5. Unwanted Emissions In Non-restricted Frequency Bands****5.1 Ref****5.1.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	0.90
		2437	1	1.39
		2462	1	2.13
802.11g	SISO	2412	1	-9.47
		2437	1	-8.71
		2462	1	-7.97
802.11n (HT20)	SISO	2412	1	-9.08
		2437	1	-8.61
		2462	1	-7.72
802.11n (HT40)	SISO	2422	1	-12.16
		2437	1	-11.86
		2452	1	-11.40

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.

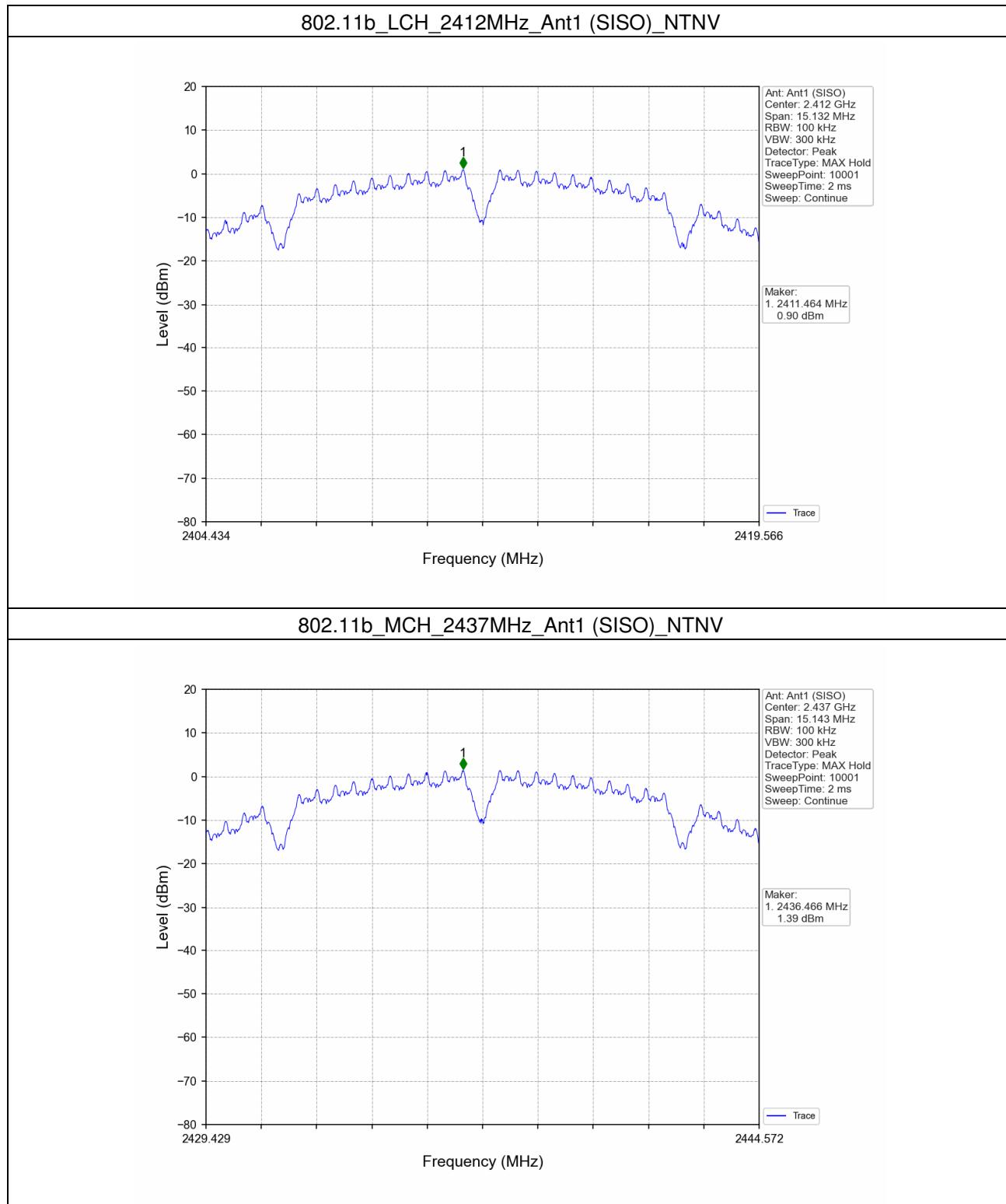
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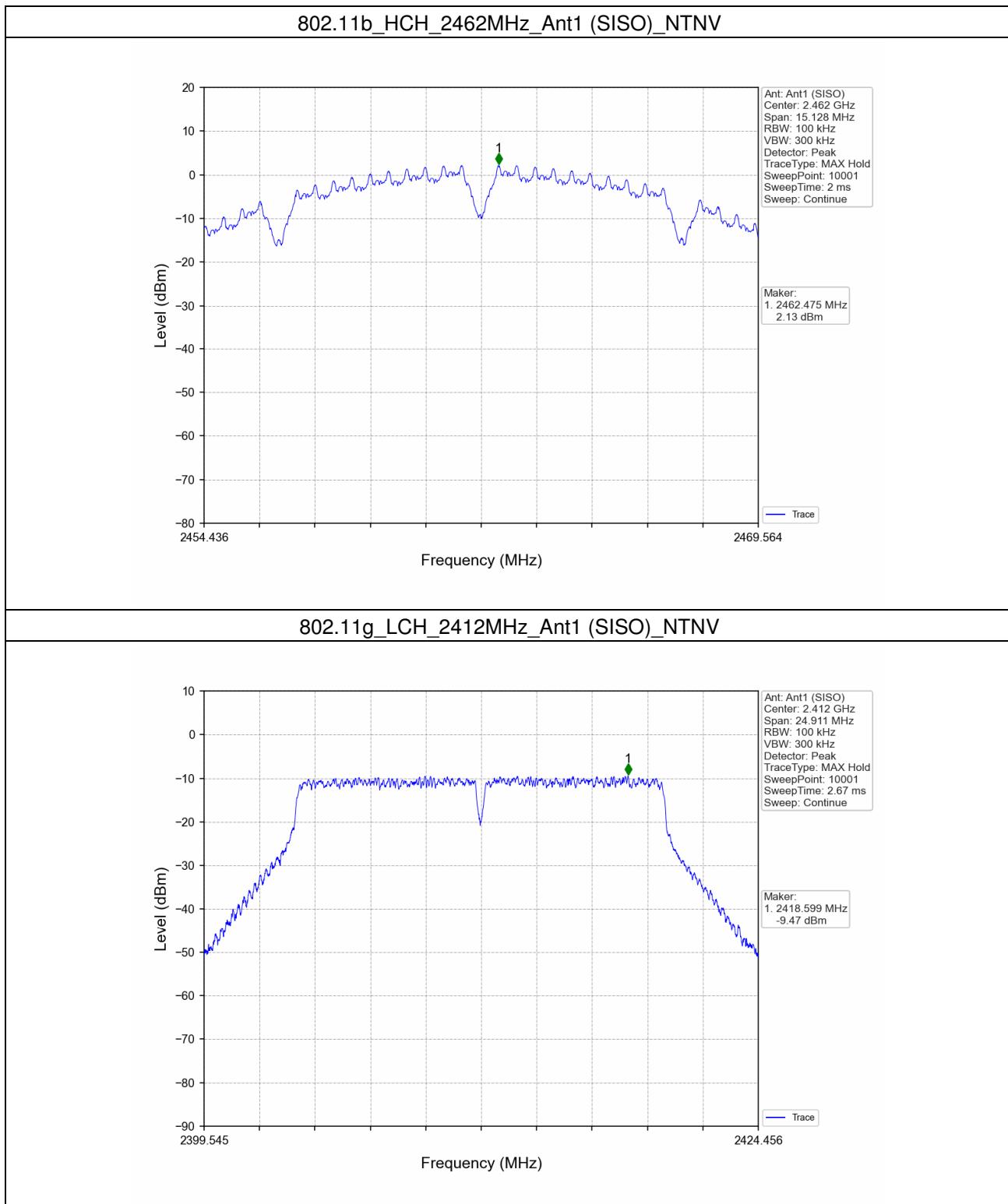
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### 5.1.2 Test Graph



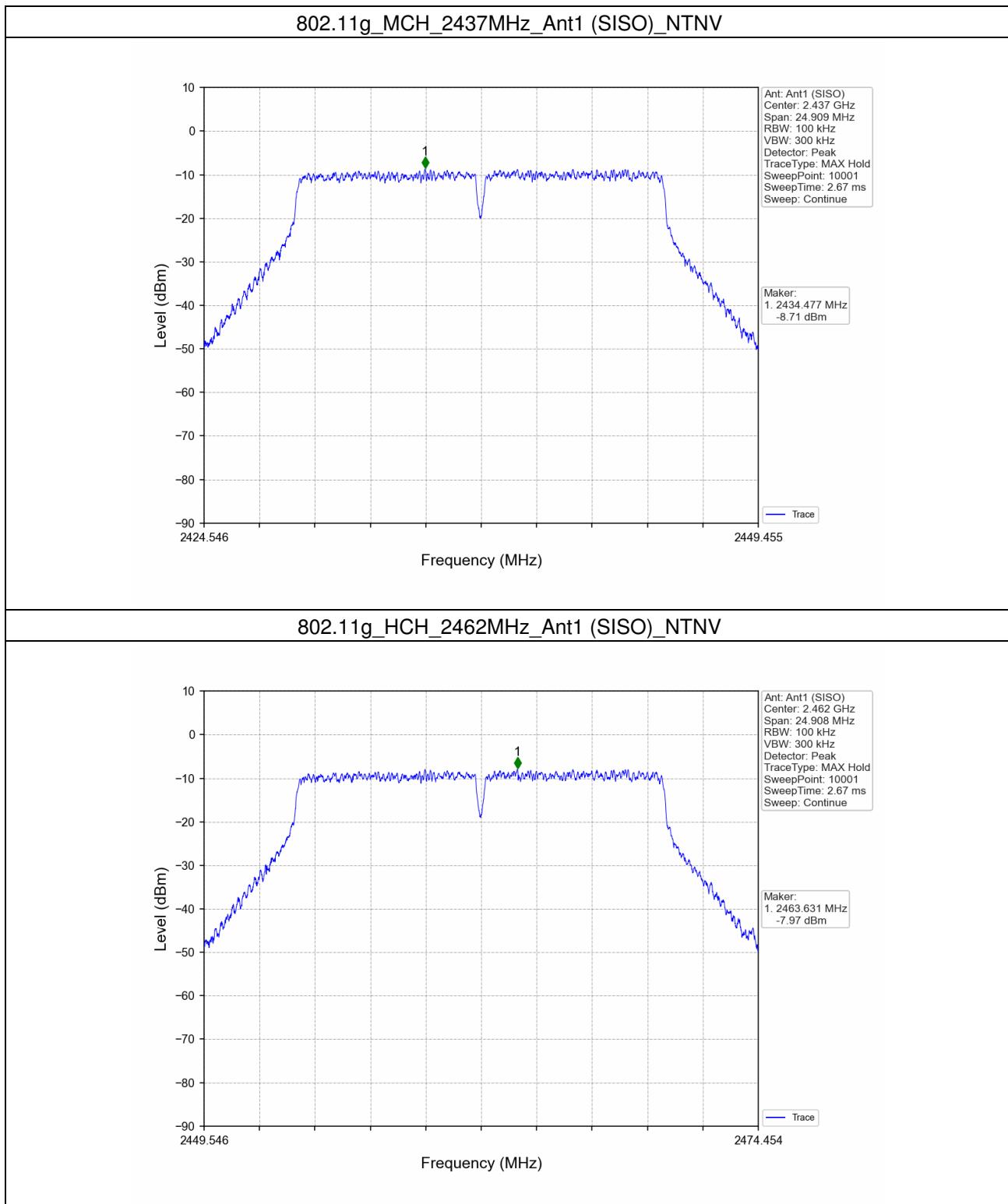


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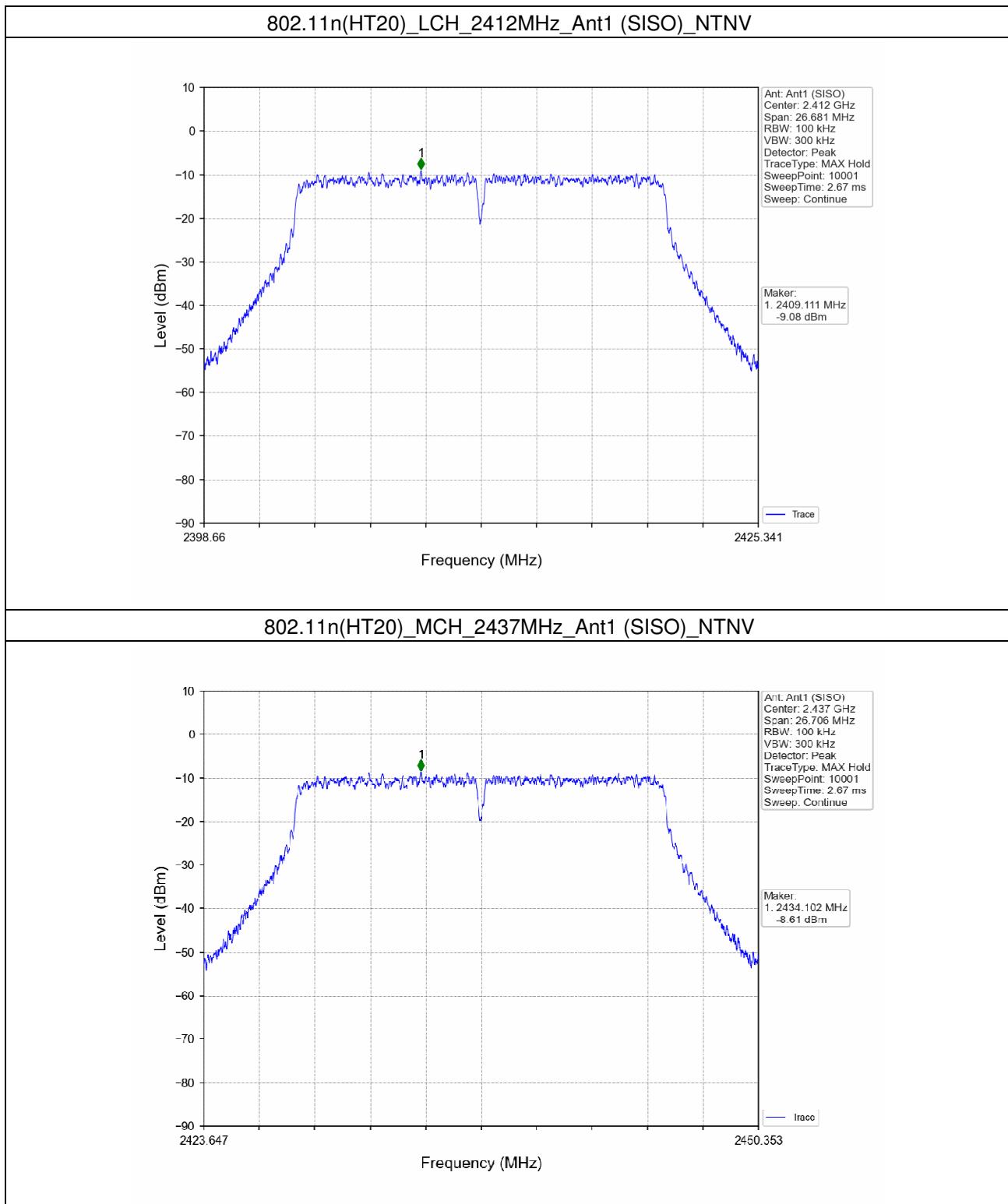


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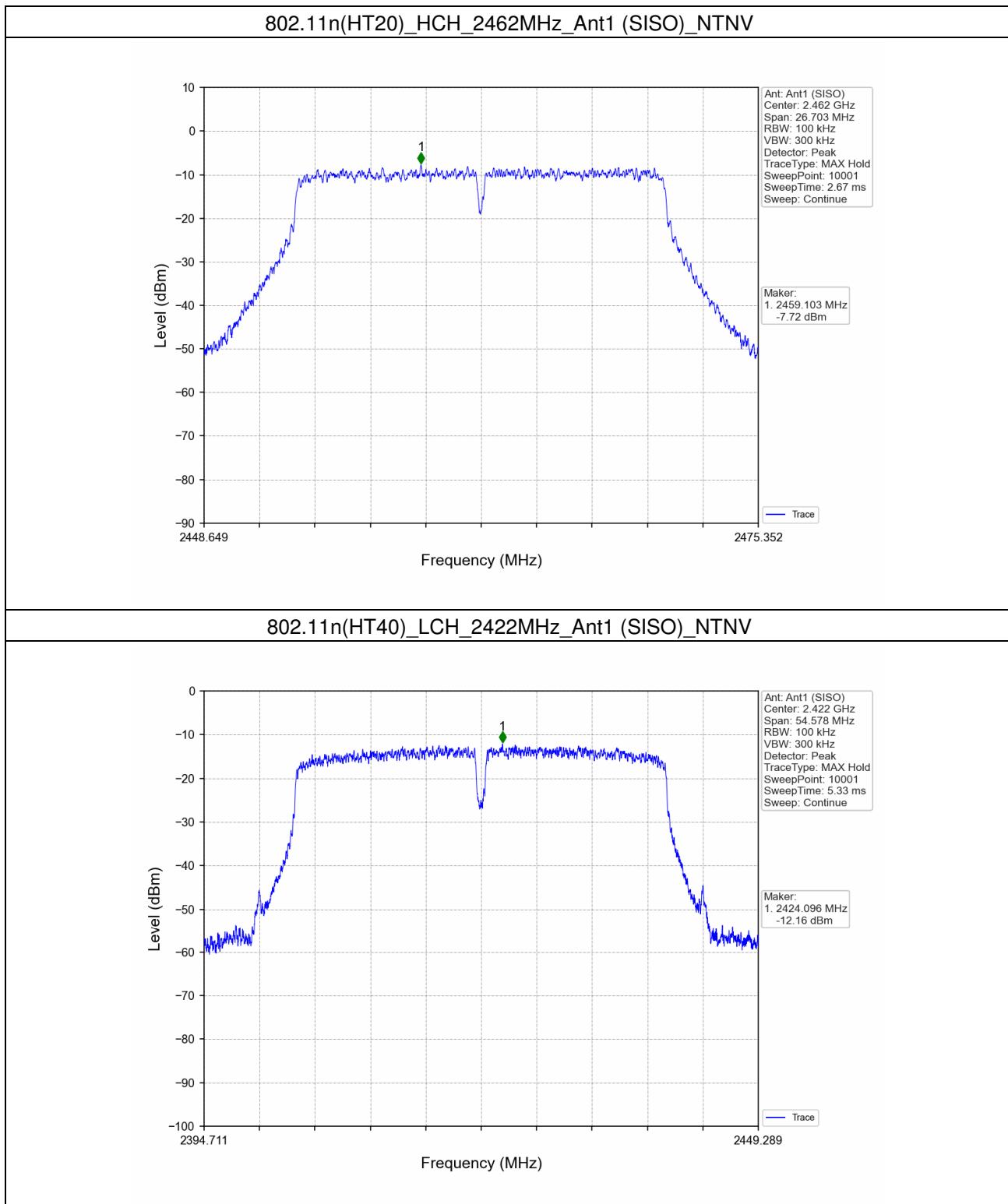


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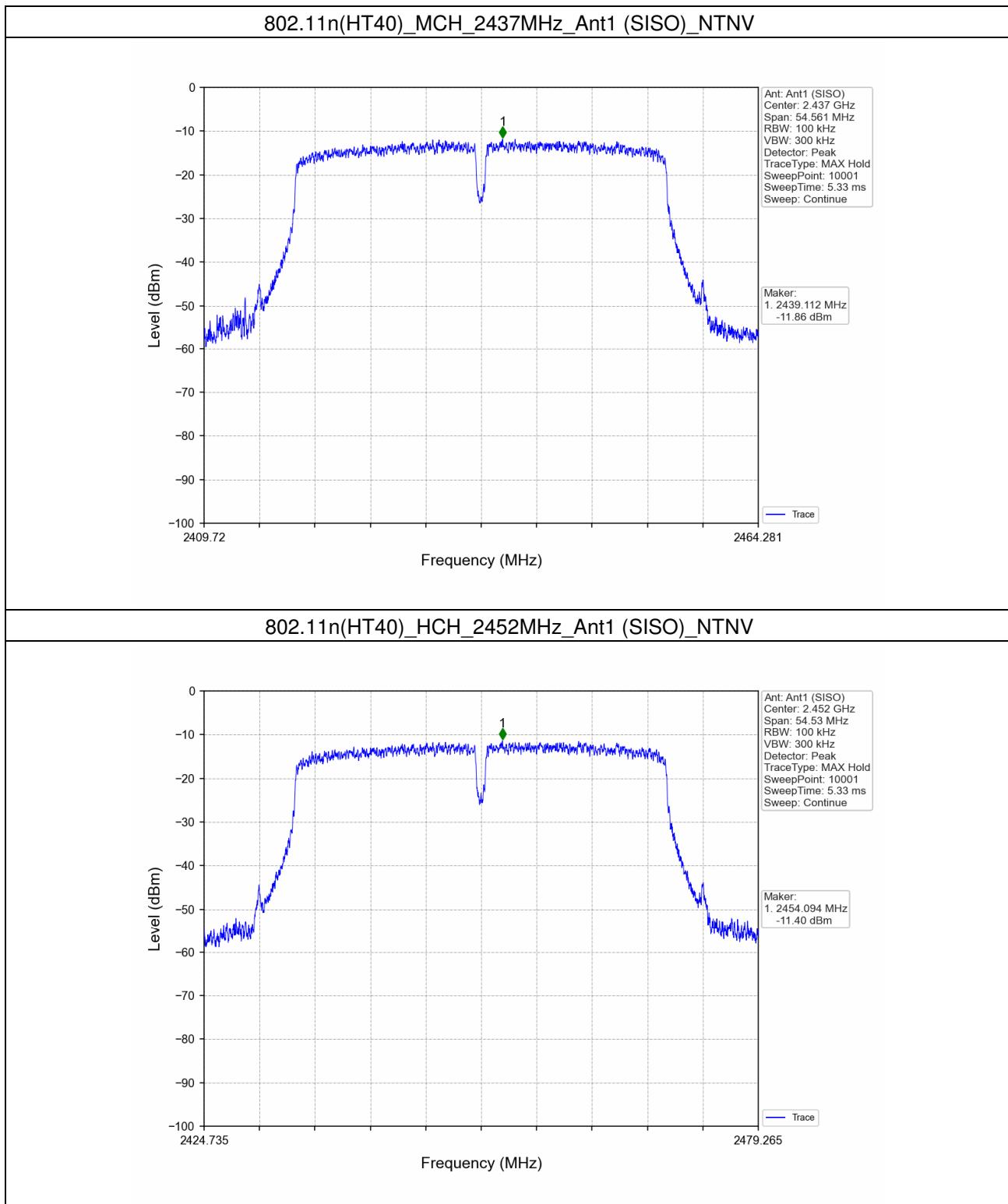


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**5.2 CSE****5.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.13	-27.87	Pass
		2437	1	2.13	-27.87	Pass
		2462	1	2.13	-27.87	Pass
802.11g	SISO	2412	1	-7.97	-37.97	Pass
		2437	1	-7.97	-37.97	Pass
		2462	1	-7.97	-37.97	Pass
802.11n (HT20)	SISO	2412	1	-7.72	-37.72	Pass
		2437	1	-7.72	-37.72	Pass
		2462	1	-7.72	-37.72	Pass
802.11n (HT40)	SISO	2422	1	-11.40	-41.40	Pass
		2437	1	-11.40	-41.40	Pass
		2452	1	-11.40	-41.40	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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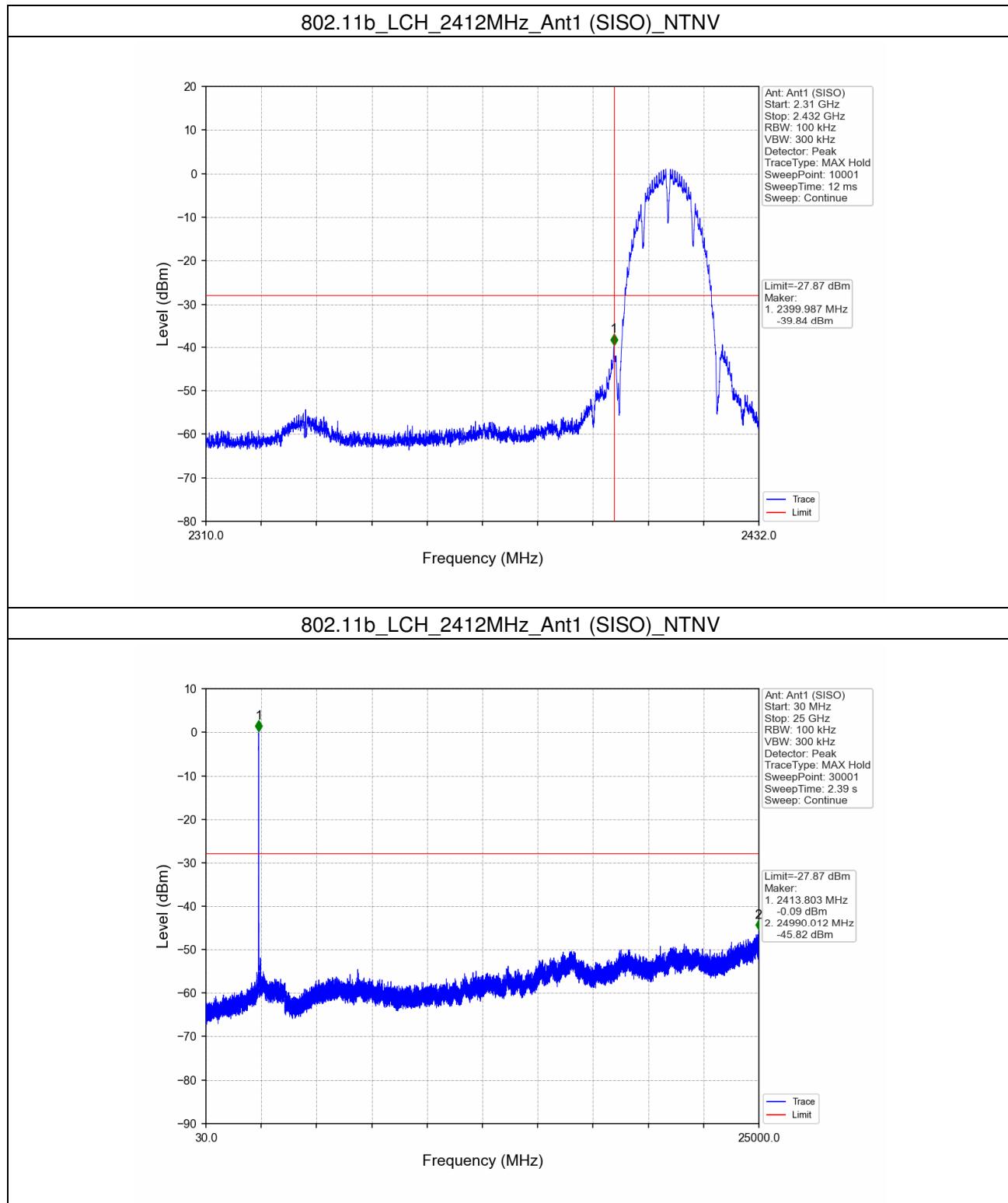
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### 5.2.2 Test Graph

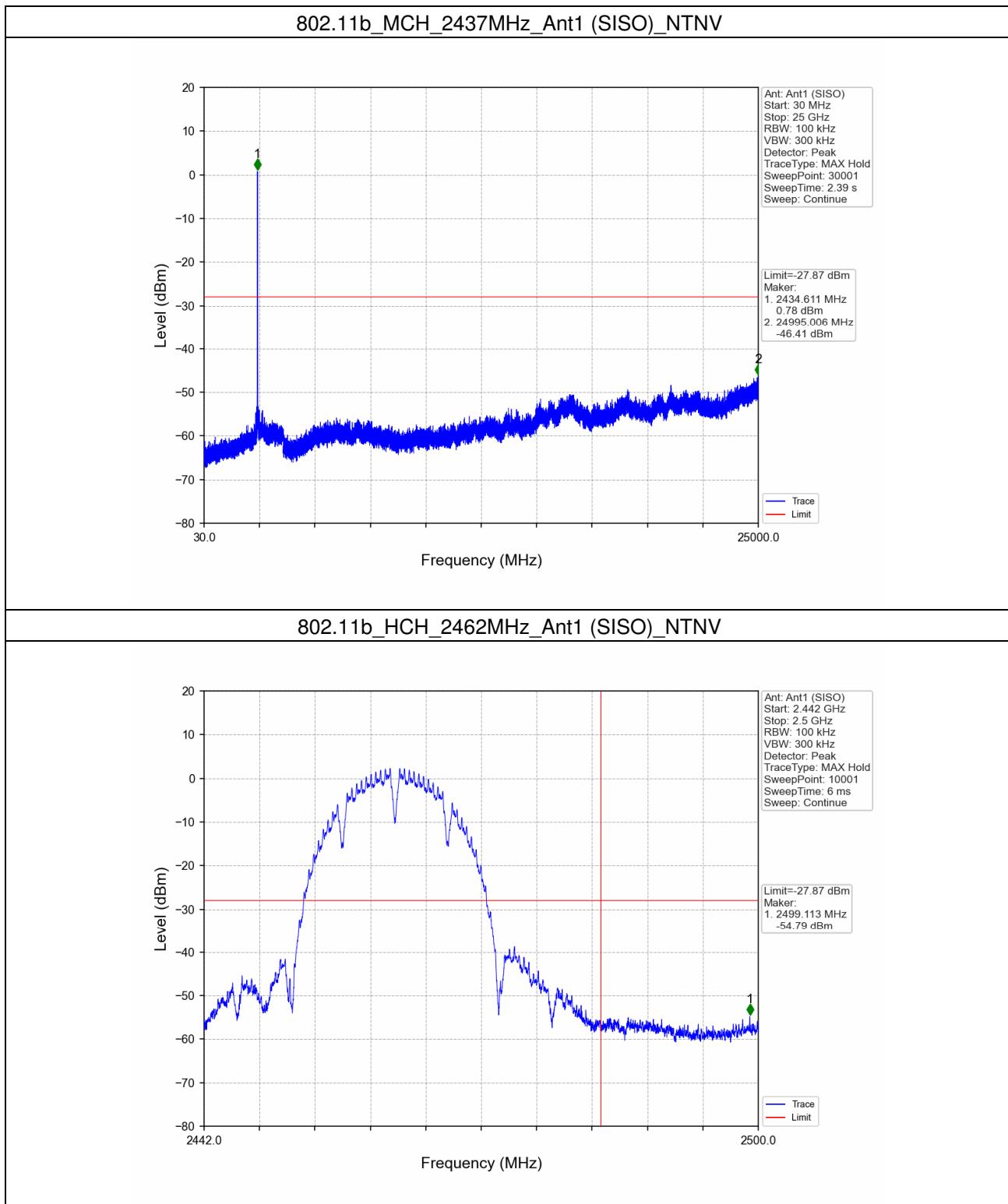


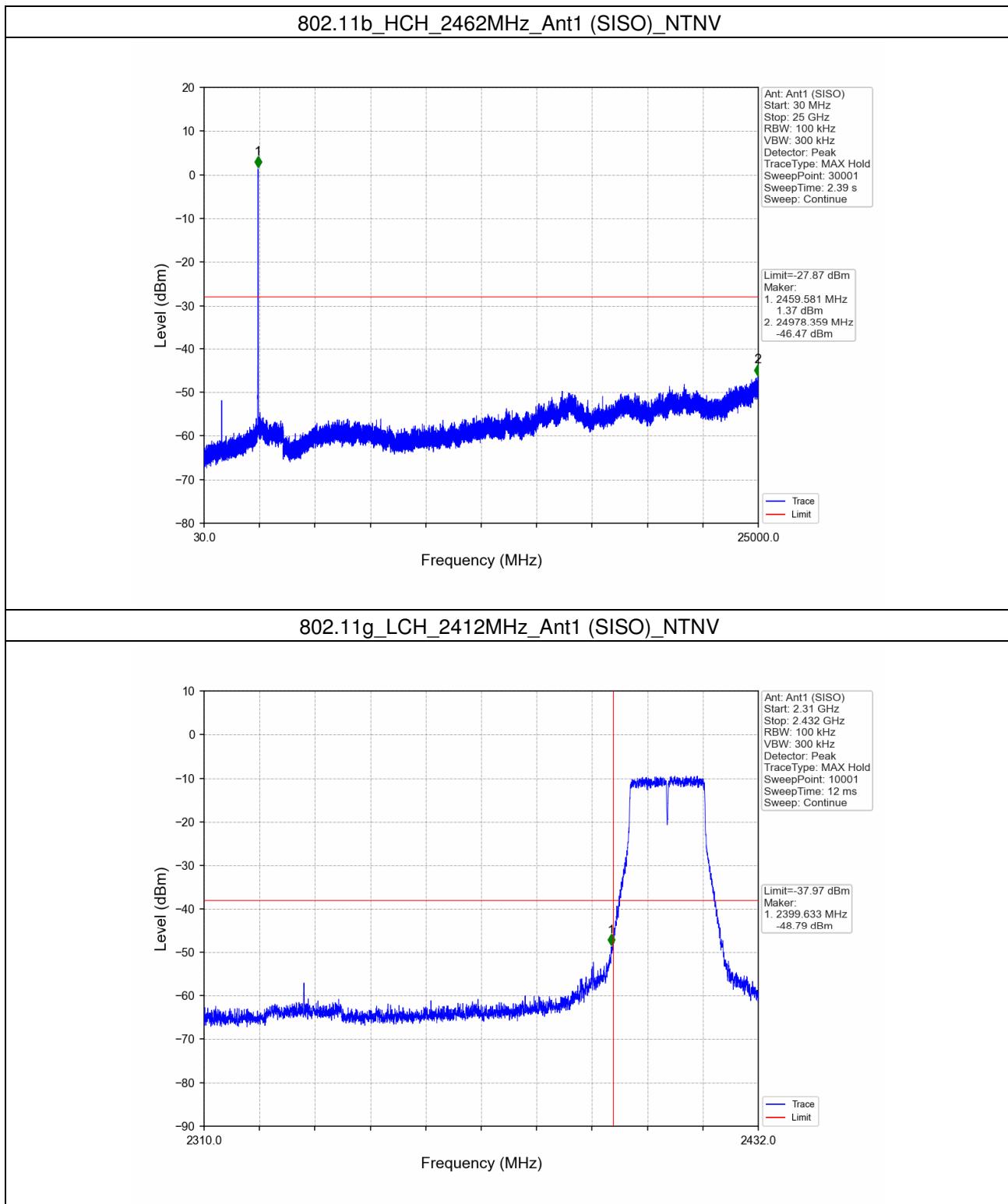
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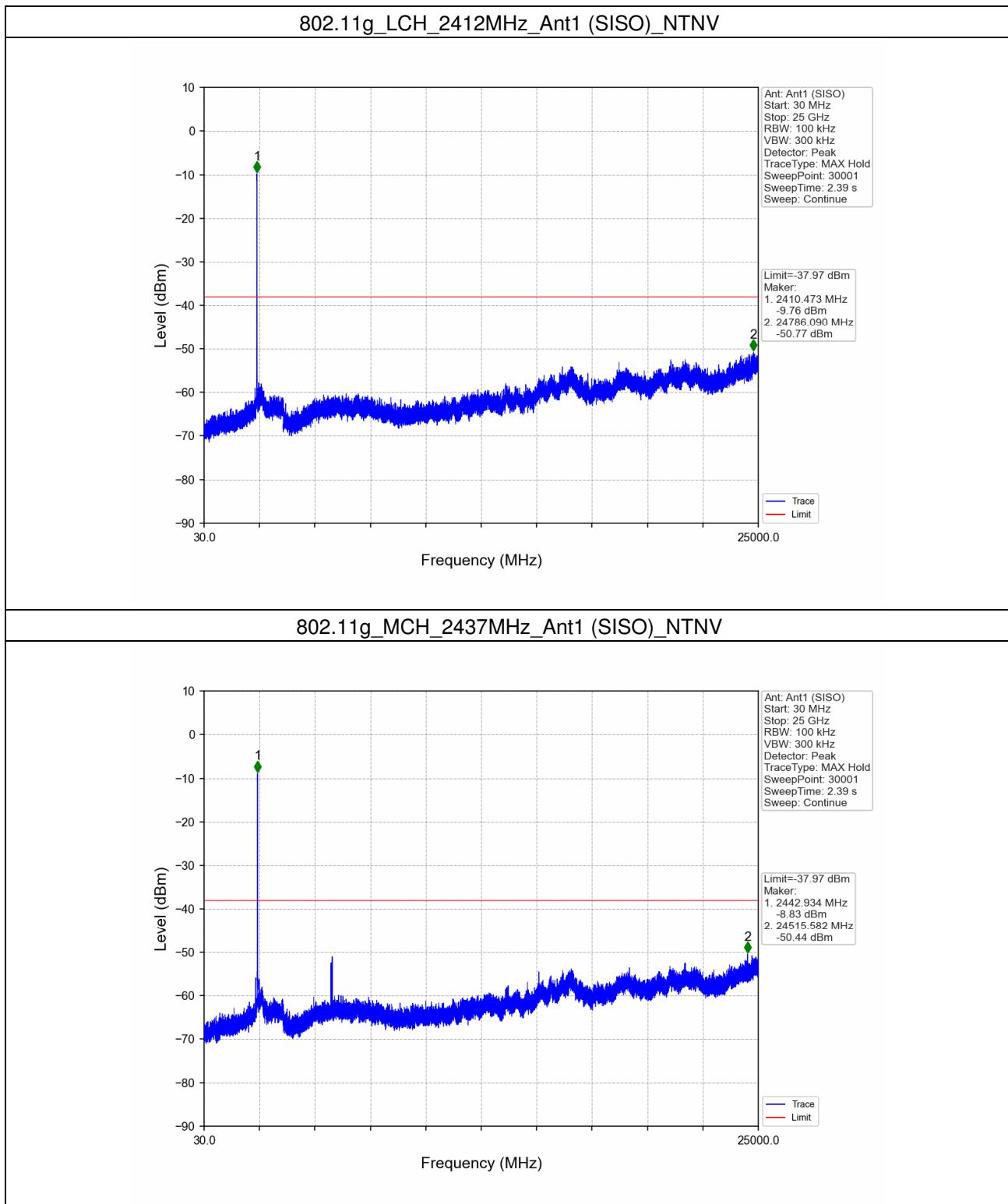


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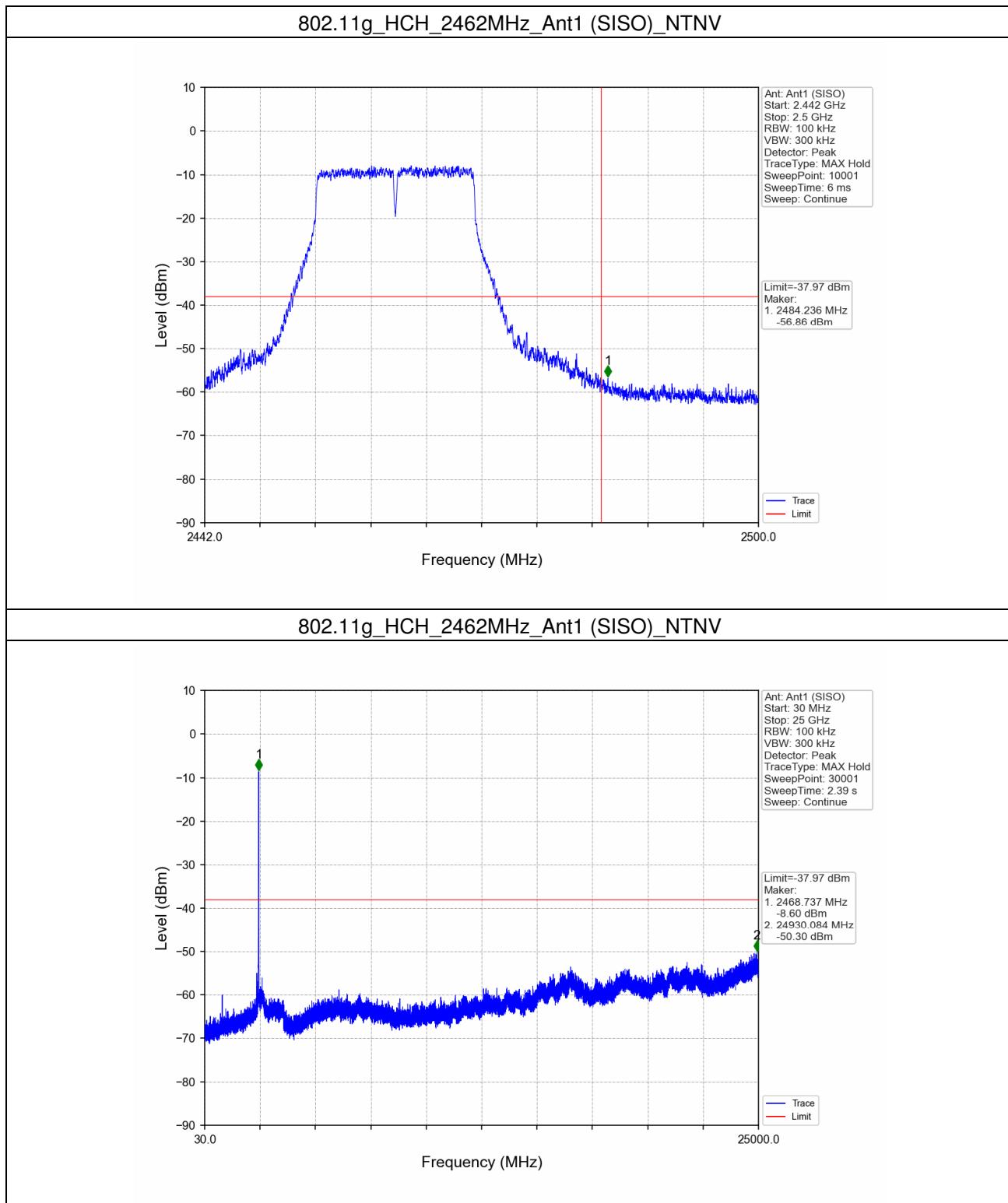


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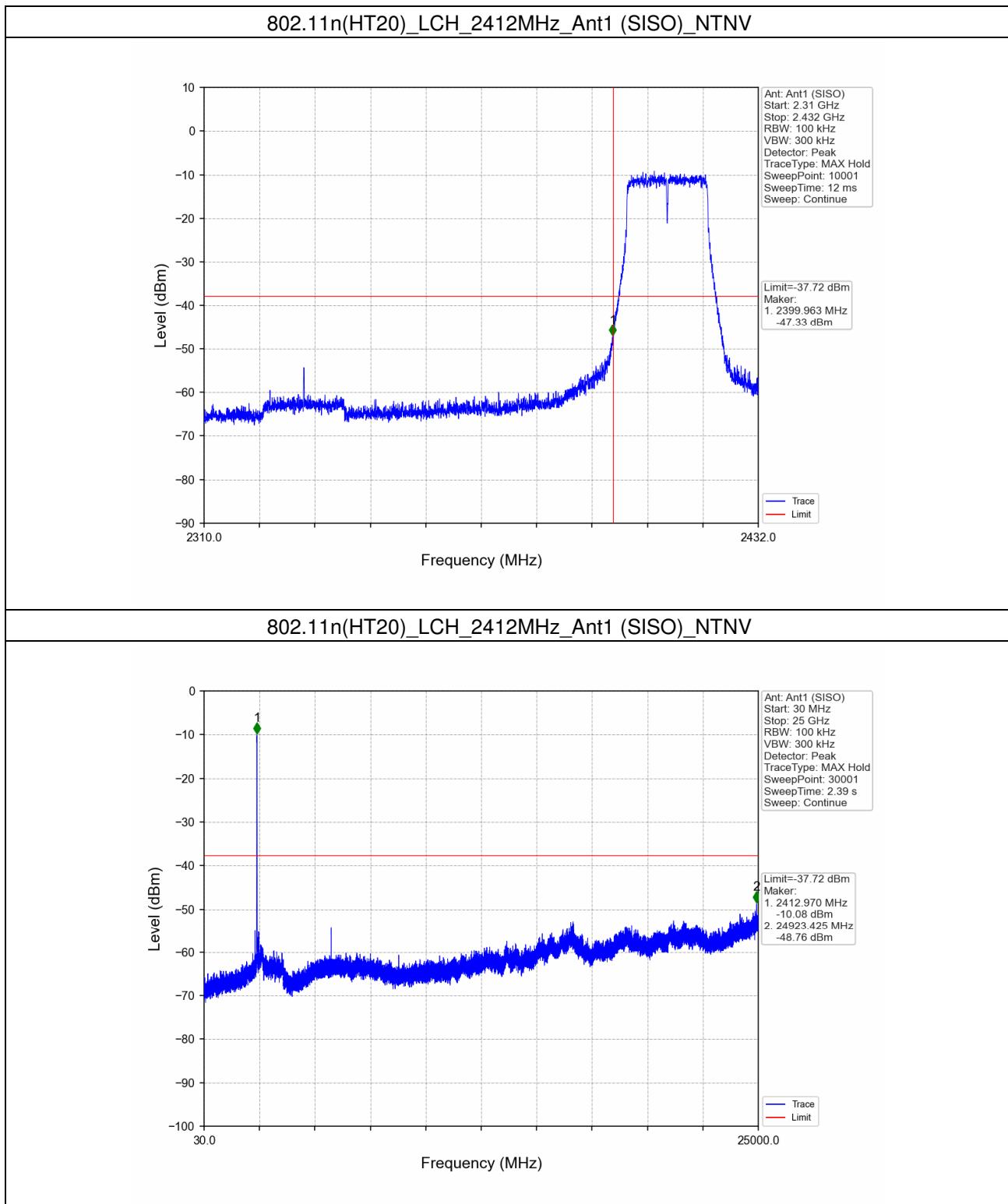


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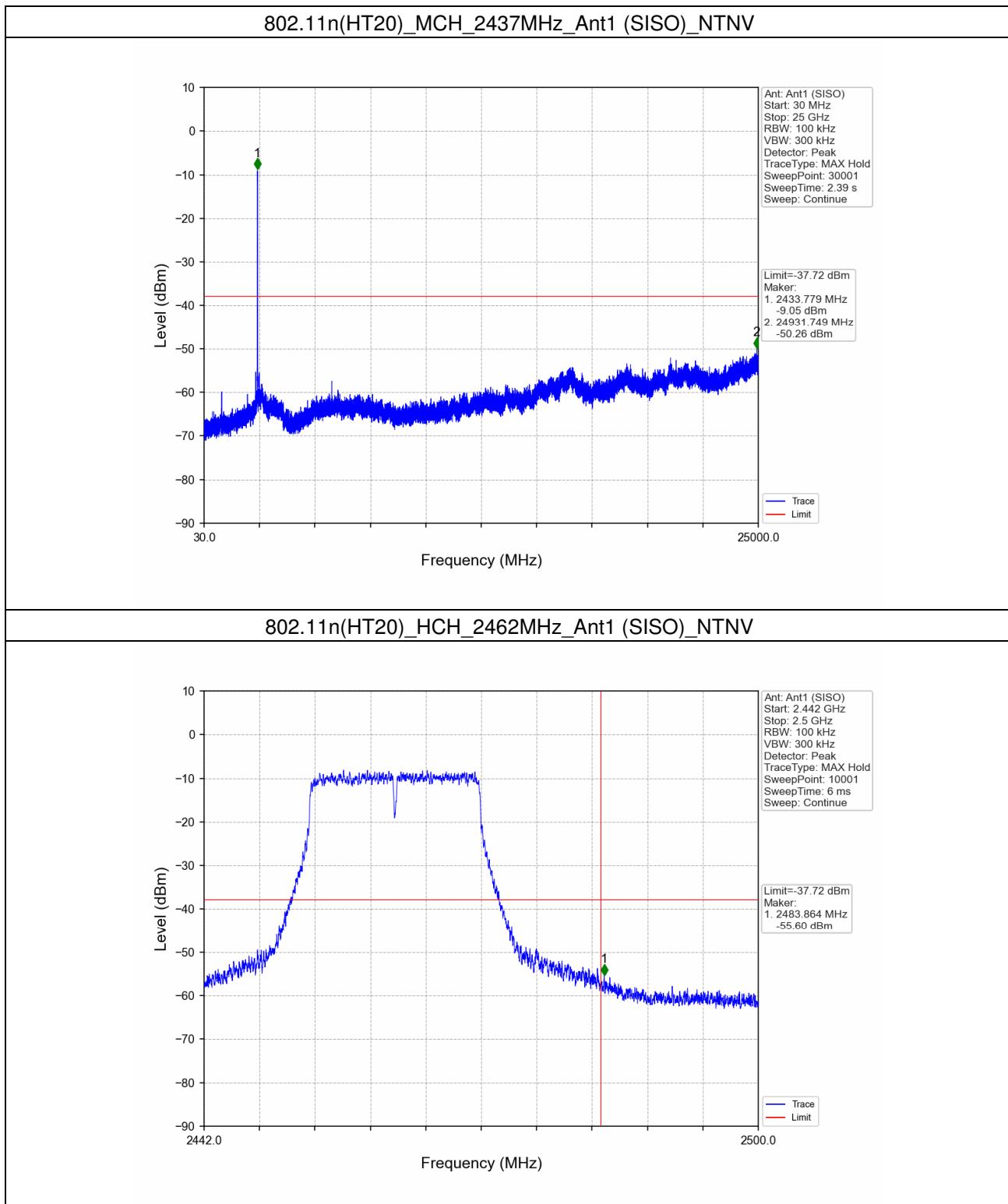


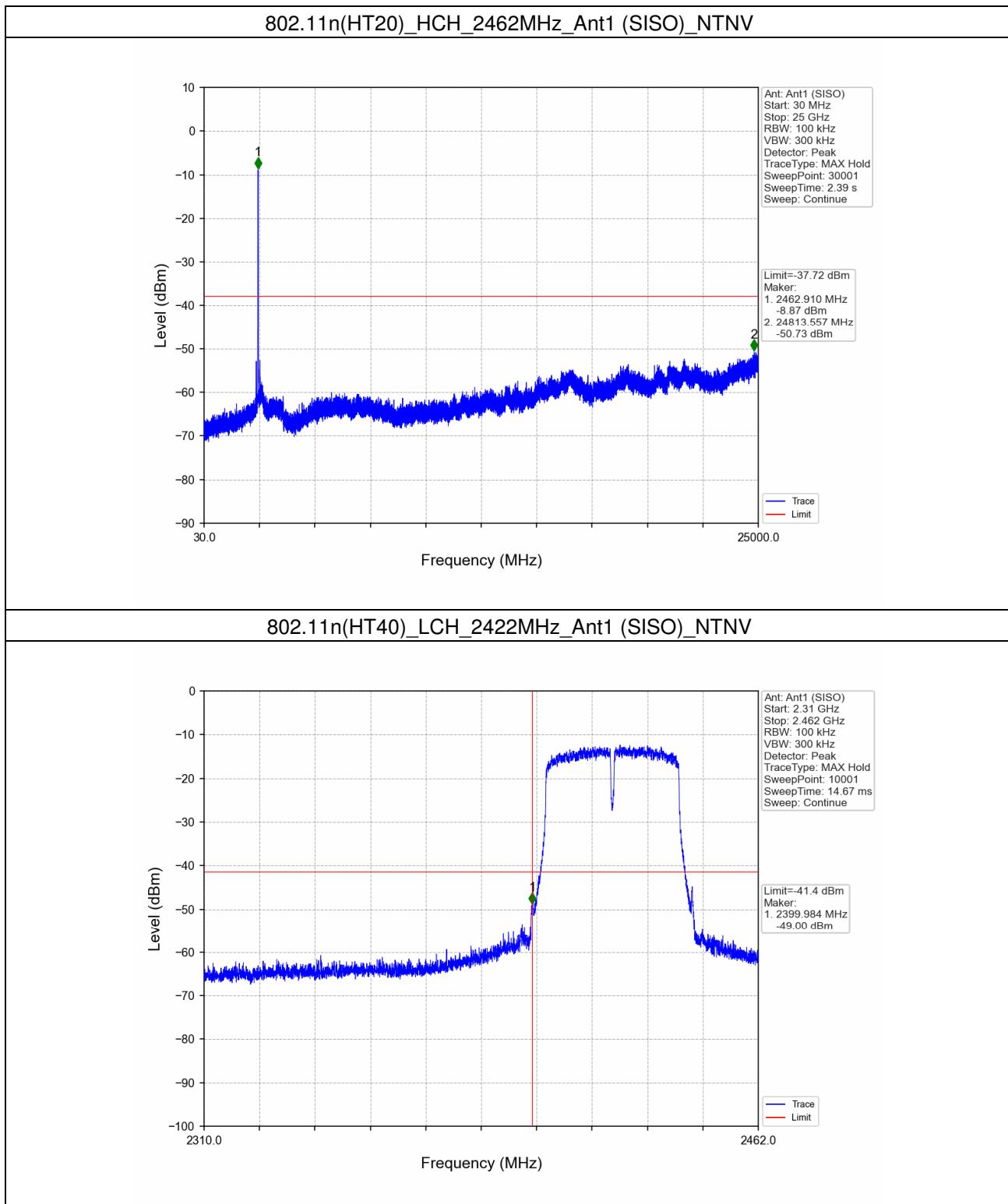
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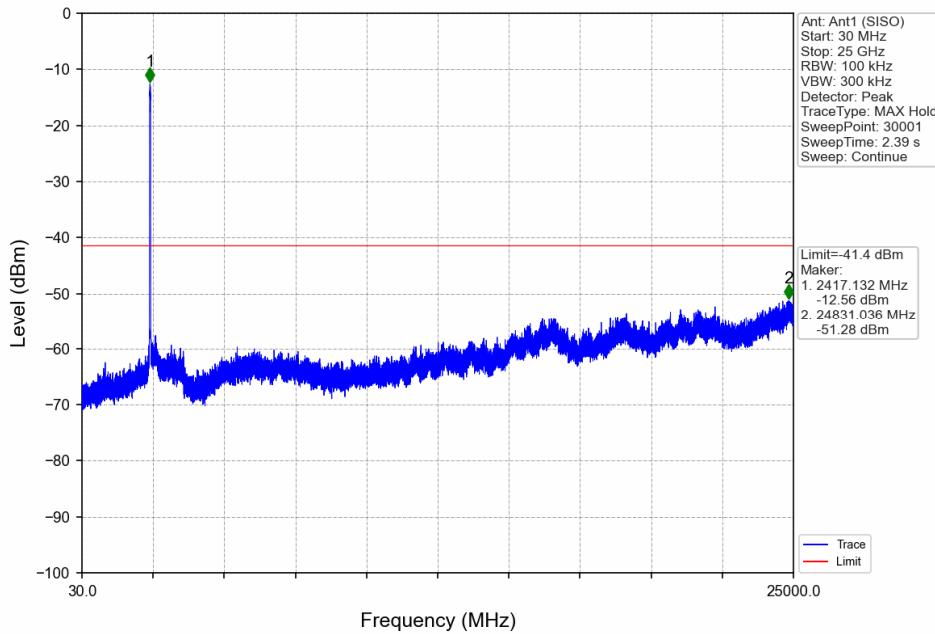
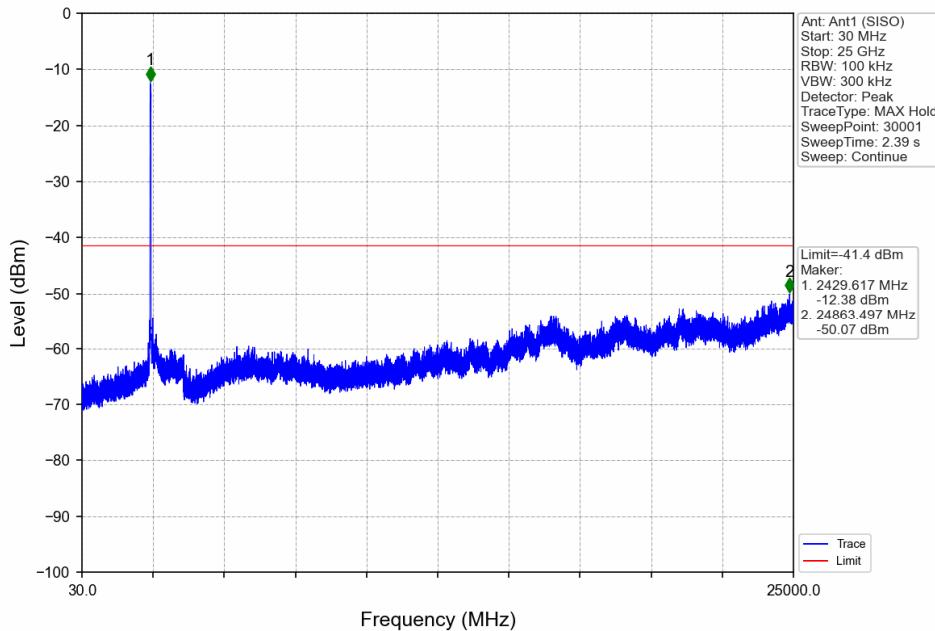


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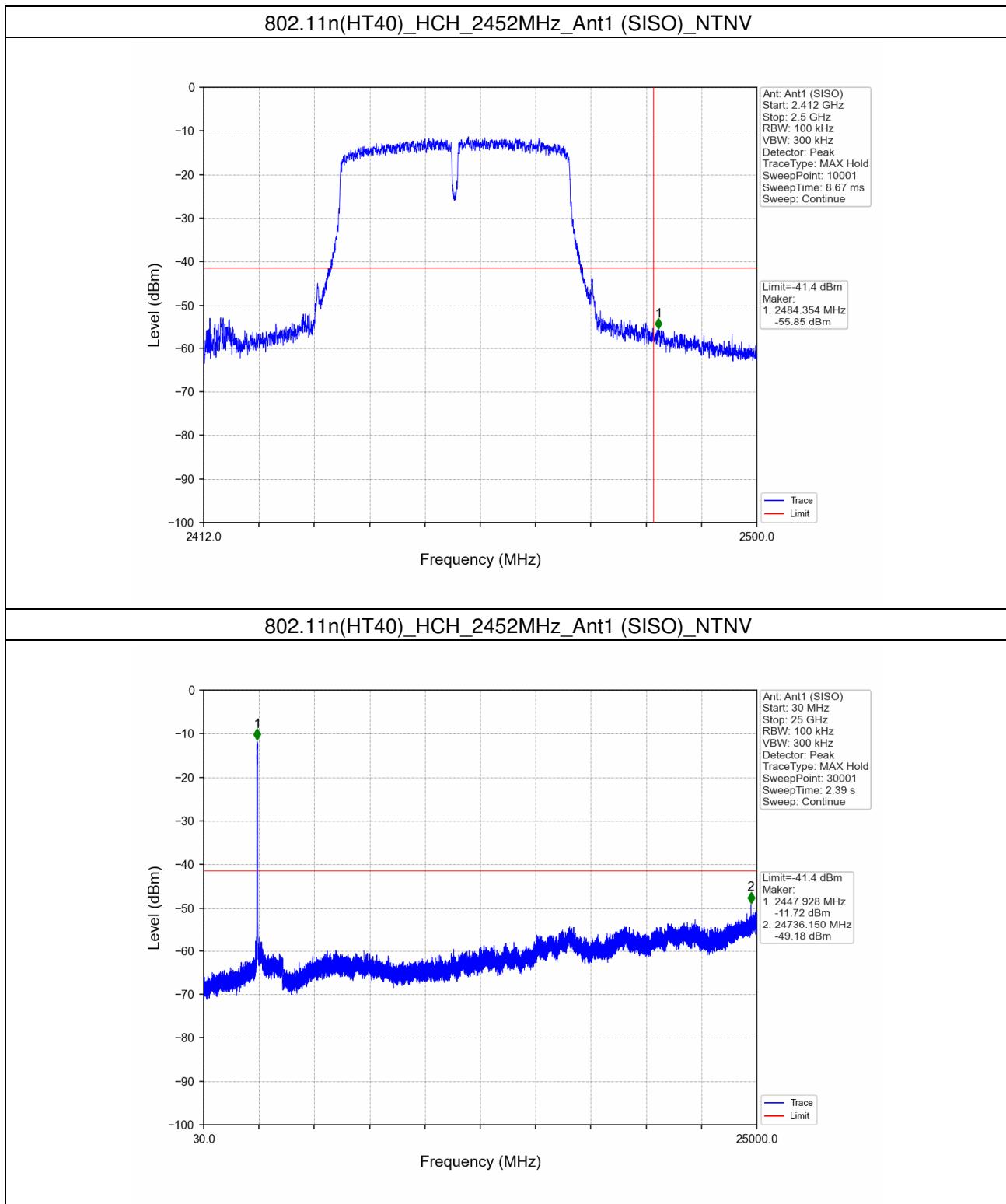
**802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV****802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV**

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