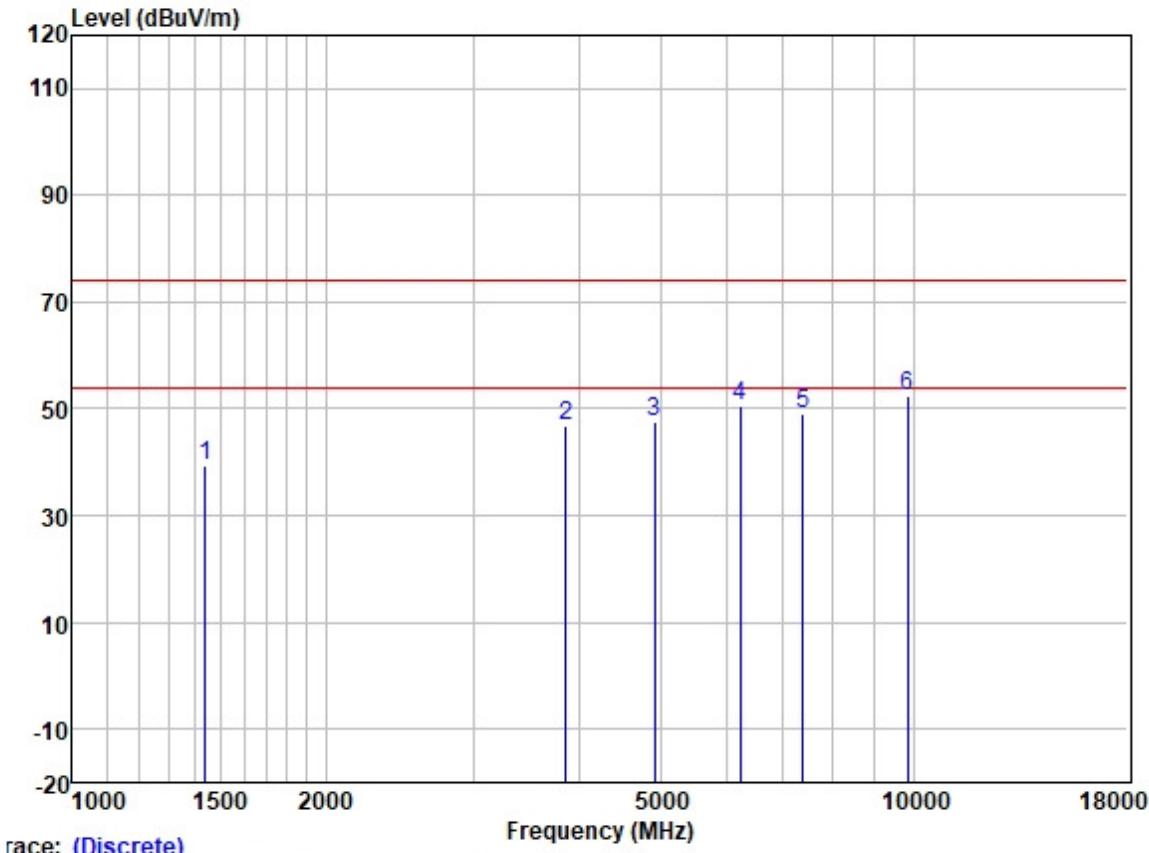


Test Mode: 32; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Mode: (Discrete)

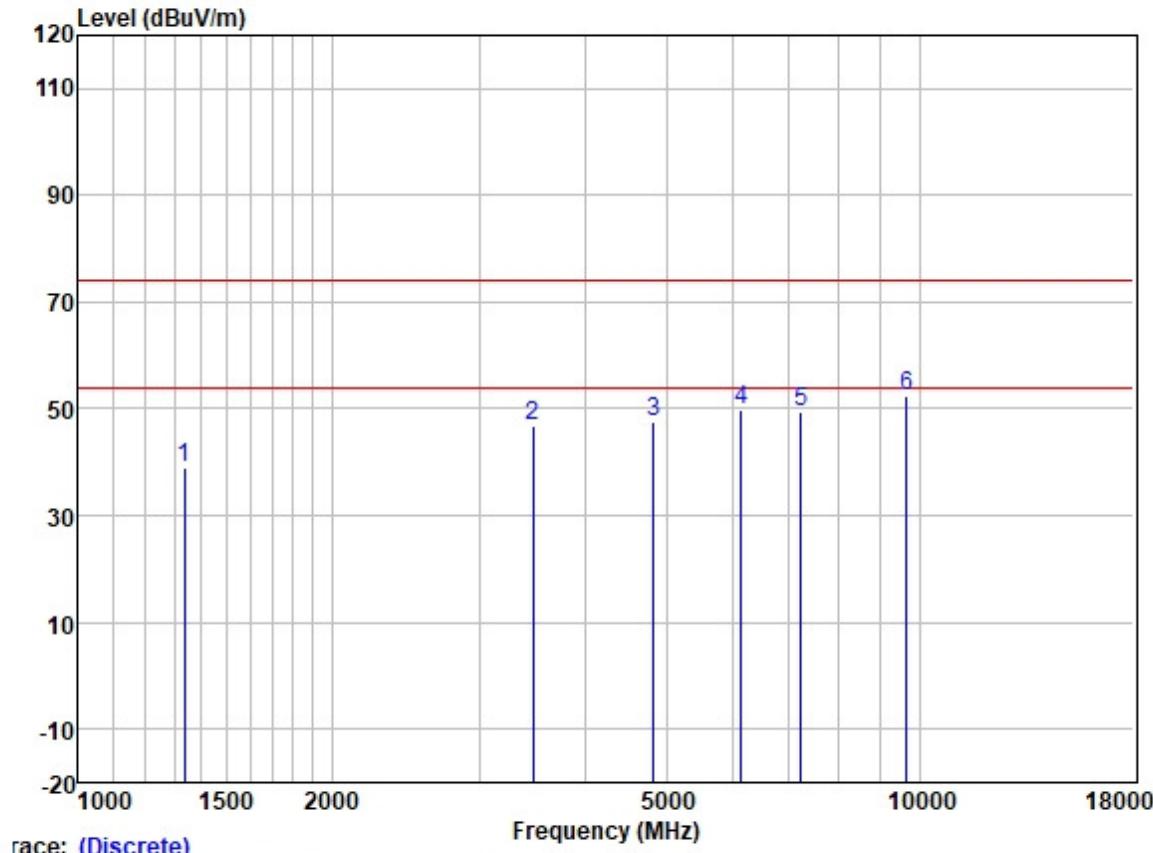
Index	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1437.892	49.36	25.44	2.68	38.17	39.31	74.00	-34.69	VERTICAL	Peak
2	3860.540	49.57	29.62	4.60	36.84	46.95	74.00	-27.05	VERTICAL	Peak
3	4924.000	47.37	31.62	5.60	36.84	47.75	74.00	-26.25	VERTICAL	Peak
4	6219.608	48.36	33.03	6.06	36.94	50.51	74.00	-23.49	VERTICAL	Peak
5	7386.000	44.06	36.17	6.19	37.45	48.97	74.00	-25.03	VERTICAL	Peak
6	9848.000	44.36	38.58	6.99	37.41	52.52	74.00	-21.48	VERTICAL	Peak

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Test Mode: 32; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



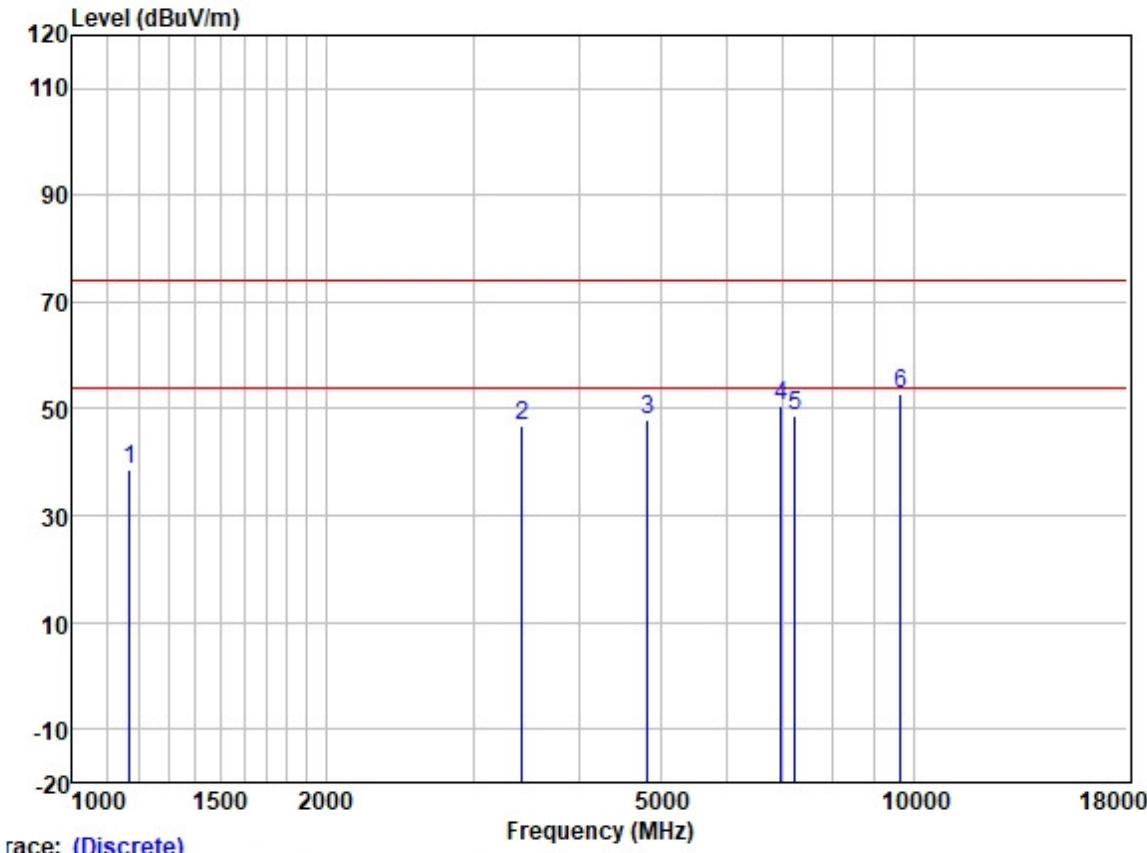
	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		MHz	Level	Factor	Loss					
			dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1335.746	49.41	25.28	2.60	38.29	39.00	74.00	-35.00	HORIZONTAL	Peak
2	3476.599	50.47	28.89	4.25	36.95	46.66	74.00	-27.34	HORIZONTAL	Peak
3	4824.000	47.46	31.45	5.42	36.83	47.50	74.00	-26.50	HORIZONTAL	Peak
4	6142.222	47.84	32.77	6.12	36.93	49.80	74.00	-24.20	HORIZONTAL	Peak
5	7236.000	45.19	35.70	6.03	37.39	49.53	74.00	-24.47	HORIZONTAL	Peak
6	9648.000	44.39	38.40	7.06	37.42	52.43	74.00	-21.57	HORIZONTAL	Peak

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Test Mode: 32; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

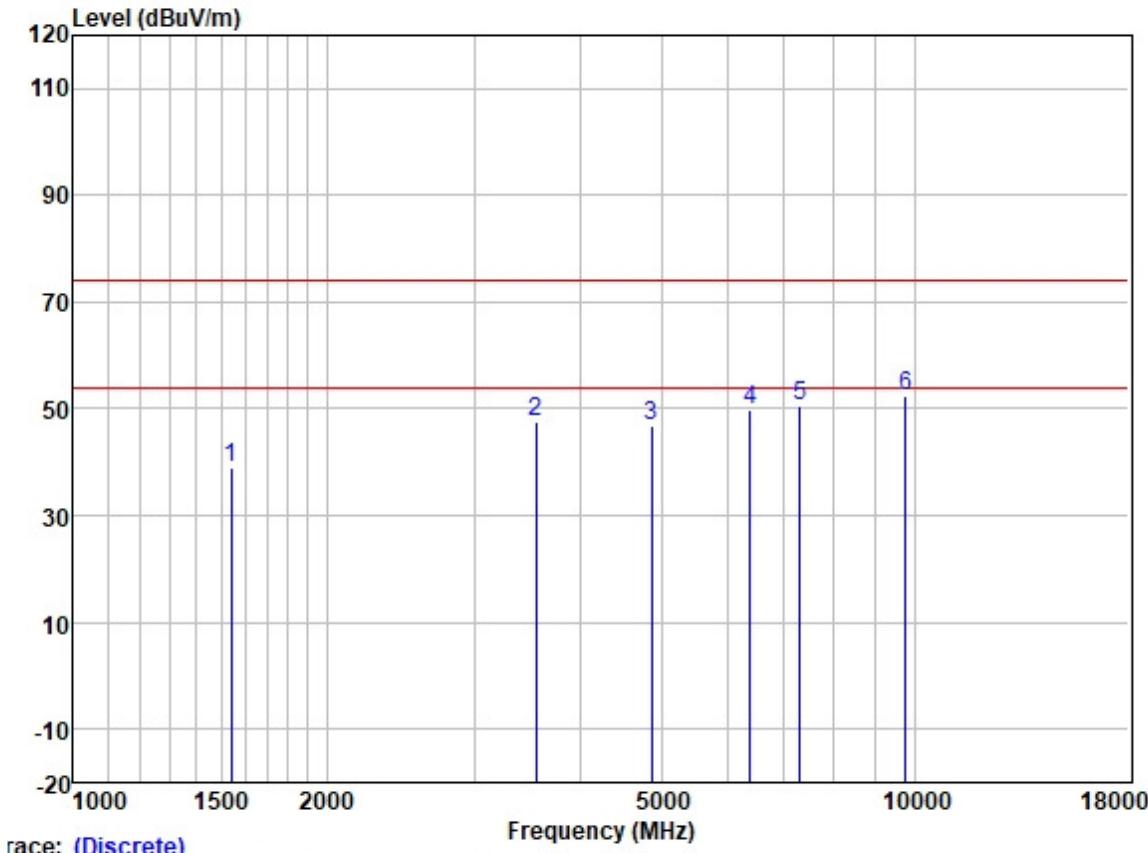
	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1169.874	50.21	24.55	2.39	38.40	38.75	74.00	-35.25	VERTICAL	Peak
2	3425.635	50.93	28.86	4.15	36.97	46.97	74.00	-27.03	VERTICAL	Peak
3	4824.000	47.74	31.45	5.42	36.83	47.78	74.00	-26.22	VERTICAL	Peak
4	6953.765	46.85	34.95	5.81	37.21	50.40	74.00	-23.60	VERTICAL	Peak
5	7236.000	44.40	35.70	6.03	37.39	48.74	74.00	-25.26	VERTICAL	Peak
6	9648.000	44.64	38.40	7.06	37.42	52.68	74.00	-21.32	VERTICAL	Peak

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Test Mode: 32; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Race: (Discrete)

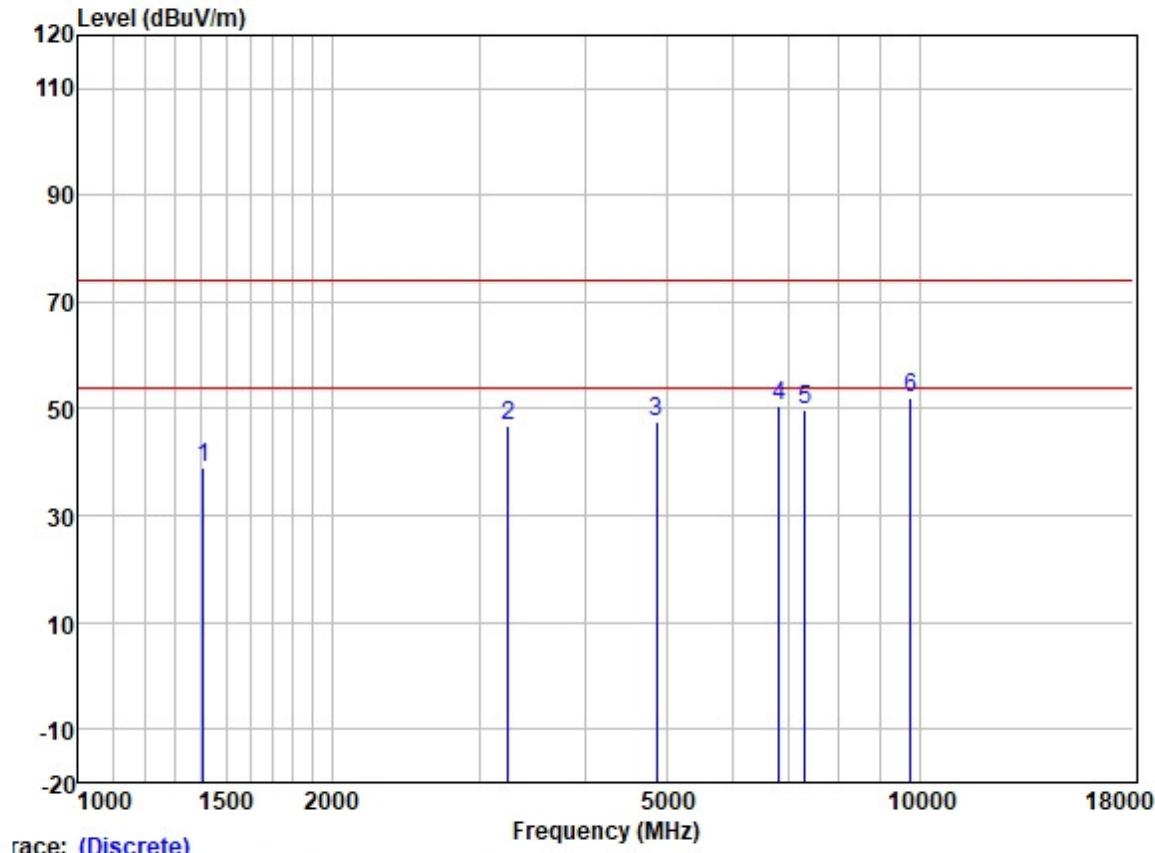
	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1540.102	48.81	25.53	2.80	38.03	39.11	74.00	-34.89	HORIZONTAL	Peak
2	3547.234	50.95	28.96	4.42	36.92	47.41	74.00	-26.59	HORIZONTAL	Peak
3	4874.000	46.59	31.54	5.50	36.84	46.79	74.00	-27.21	HORIZONTAL	Peak
4	6383.782	47.17	33.68	5.91	36.98	49.78	74.00	-24.22	HORIZONTAL	Peak
5	7311.000	46.08	35.93	6.11	37.42	50.70	74.00	-23.30	HORIZONTAL	Peak
6	9748.000	44.34	38.50	7.02	37.41	52.45	74.00	-21.55	HORIZONTAL	Peak

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Test Mode: 32; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Race: (Discrete)

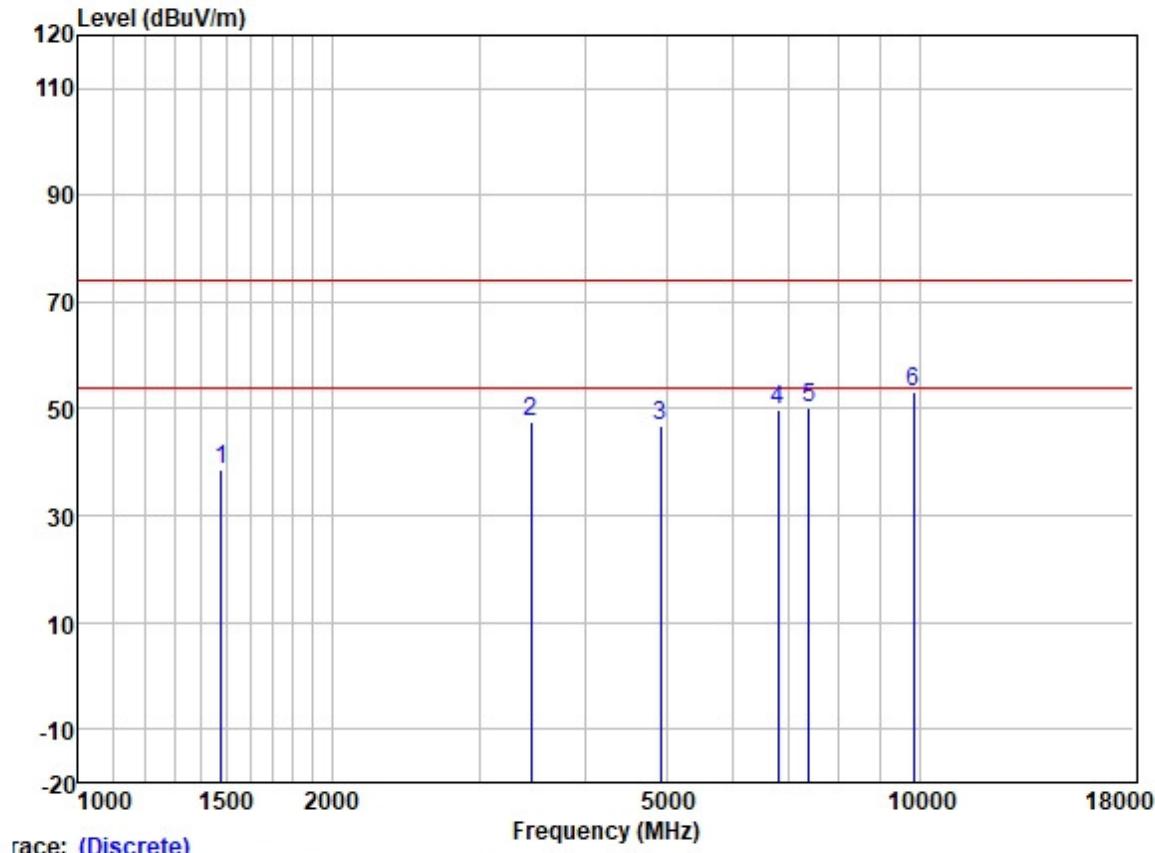
Race	Freq	ReadAntenna		Cable		Preamp		Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor	Level	Line				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1407.571	49.24	25.40	2.61	38.22	39.03	74.00	-34.97	VERTICAL	Peak	
2	3241.140	51.13	28.67	4.02	37.06	46.76	74.00	-27.24	VERTICAL	Peak	
3	4874.000	47.20	31.54	5.50	36.84	47.40	74.00	-26.60	VERTICAL	Peak	
4	6804.685	47.03	34.66	5.82	37.12	50.39	74.00	-23.61	VERTICAL	Peak	
5	7311.000	45.16	35.93	6.11	37.42	49.78	74.00	-24.22	VERTICAL	Peak	
6	9748.000	43.82	38.50	7.02	37.41	51.93	74.00	-22.07	VERTICAL	Peak	

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Test Mode: 32; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



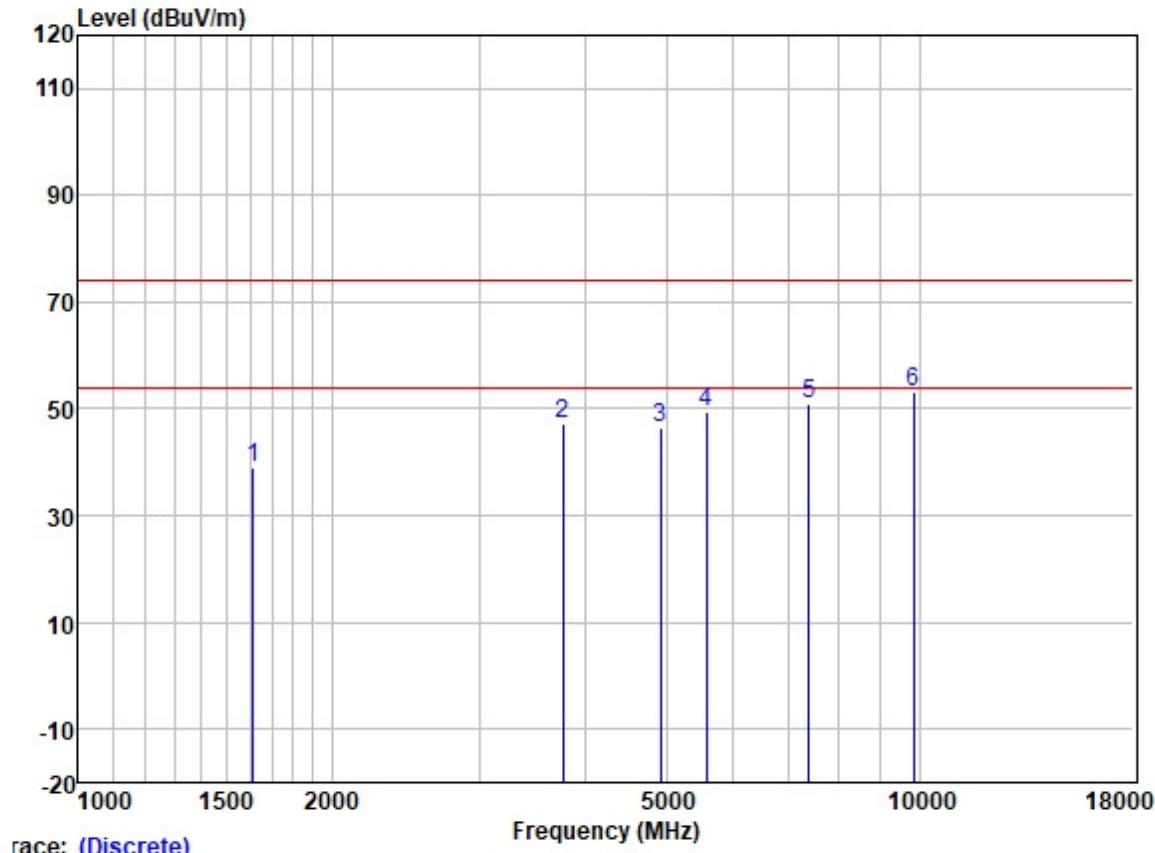
	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1479.932	48.49	25.48	2.77	38.13	38.61	74.00	-35.39	HORIZONTAL	Peak
2	3453.364	51.62	28.88	4.20	36.96	47.74	74.00	-26.26	HORIZONTAL	Peak
3	4924.000	46.57	31.62	5.60	36.84	46.95	74.00	-27.05	HORIZONTAL	Peak
4	6793.534	46.62	34.66	5.82	37.12	49.98	74.00	-24.02	HORIZONTAL	Peak
5	7386.000	45.28	36.17	6.19	37.45	50.19	74.00	-23.81	HORIZONTAL	Peak
6	9848.000	45.13	38.58	6.99	37.41	53.29	74.00	-20.71	HORIZONTAL	Peak

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Test Mode: 32; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Race: (Discrete)

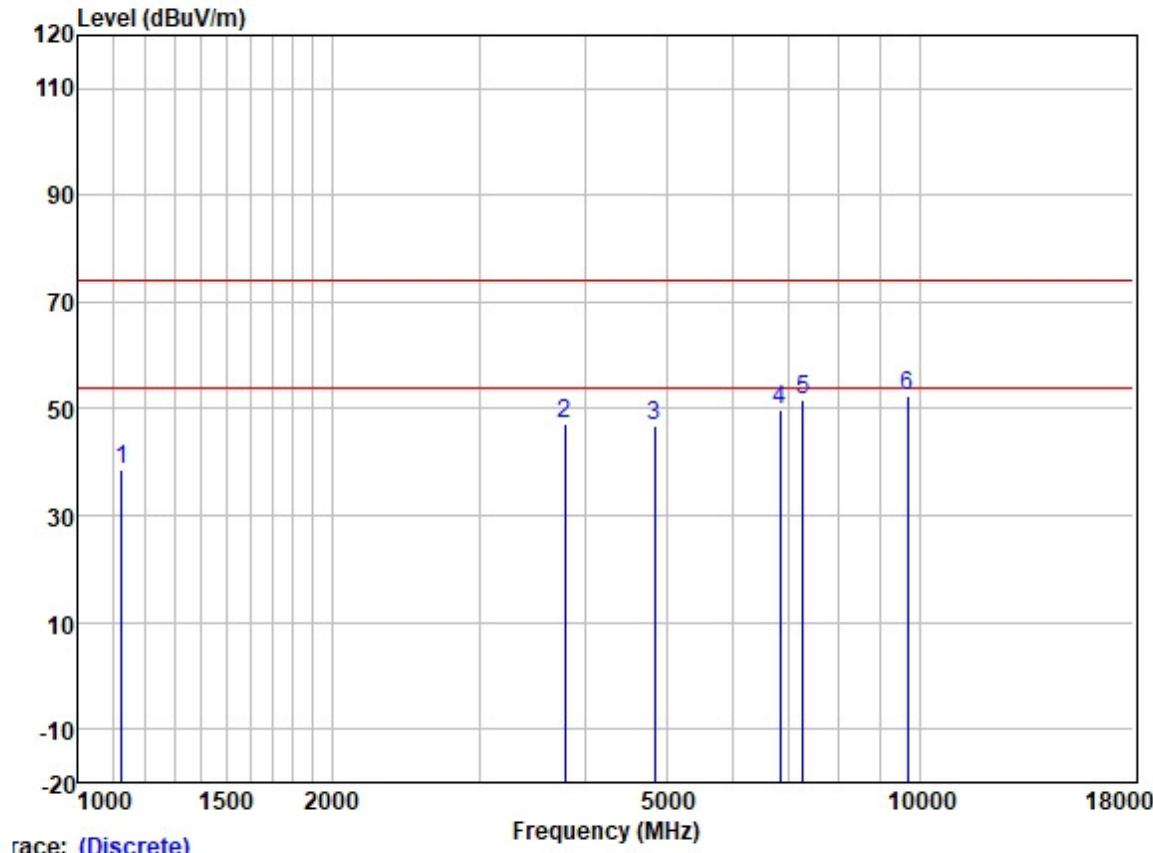
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 1612.602	48.42	25.59	2.80	37.95	38.86	74.00	-35.14	VERTICAL	Peak
2 3764.268	50.05	29.45	4.59	36.86	47.23	74.00	-26.77	VERTICAL	Peak
3 4924.000	46.04	31.62	5.60	36.84	46.42	74.00	-27.58	VERTICAL	Peak
4 5585.904	48.32	31.87	6.32	36.89	49.62	74.00	-24.38	VERTICAL	Peak
5 7386.000	45.84	36.17	6.19	37.45	50.75	74.00	-23.25	VERTICAL	Peak
6 9848.000	45.05	38.58	6.99	37.41	53.21	74.00	-20.79	VERTICAL	Peak

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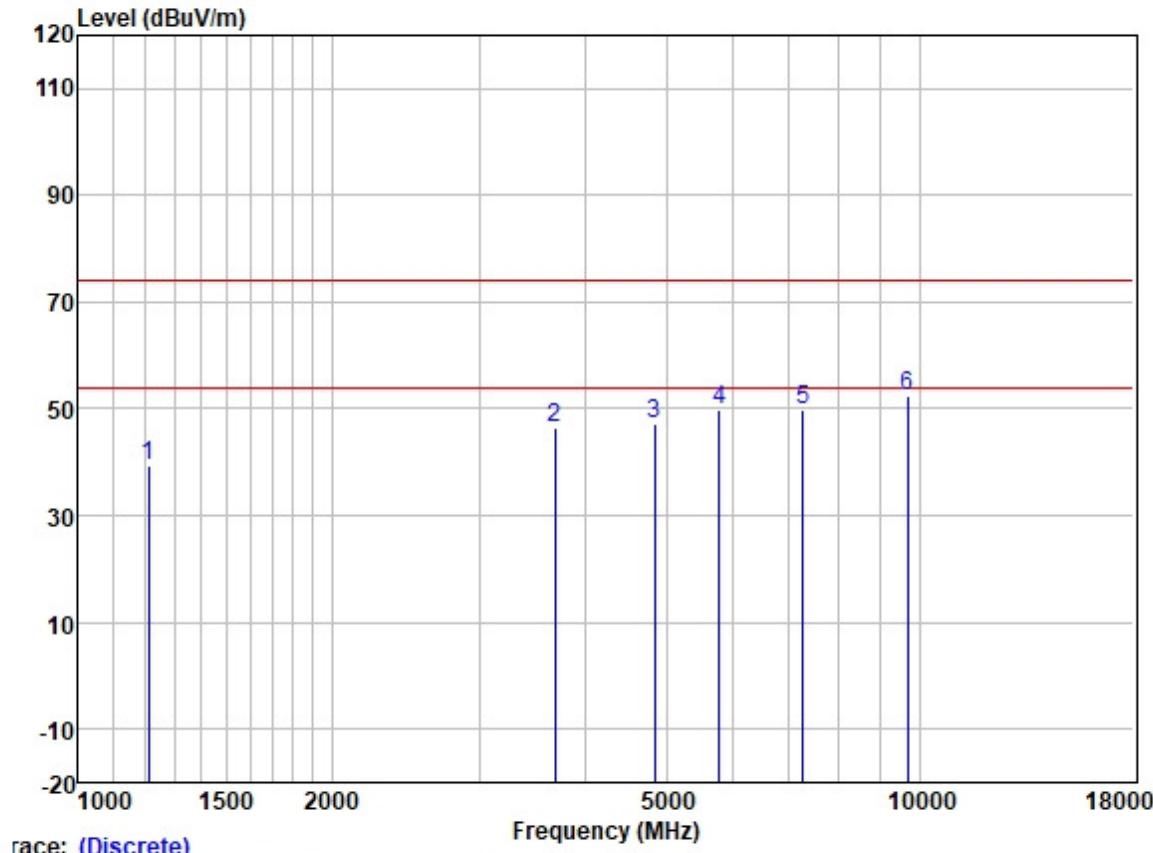
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Test Mode: 32; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Test Mode: 32; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



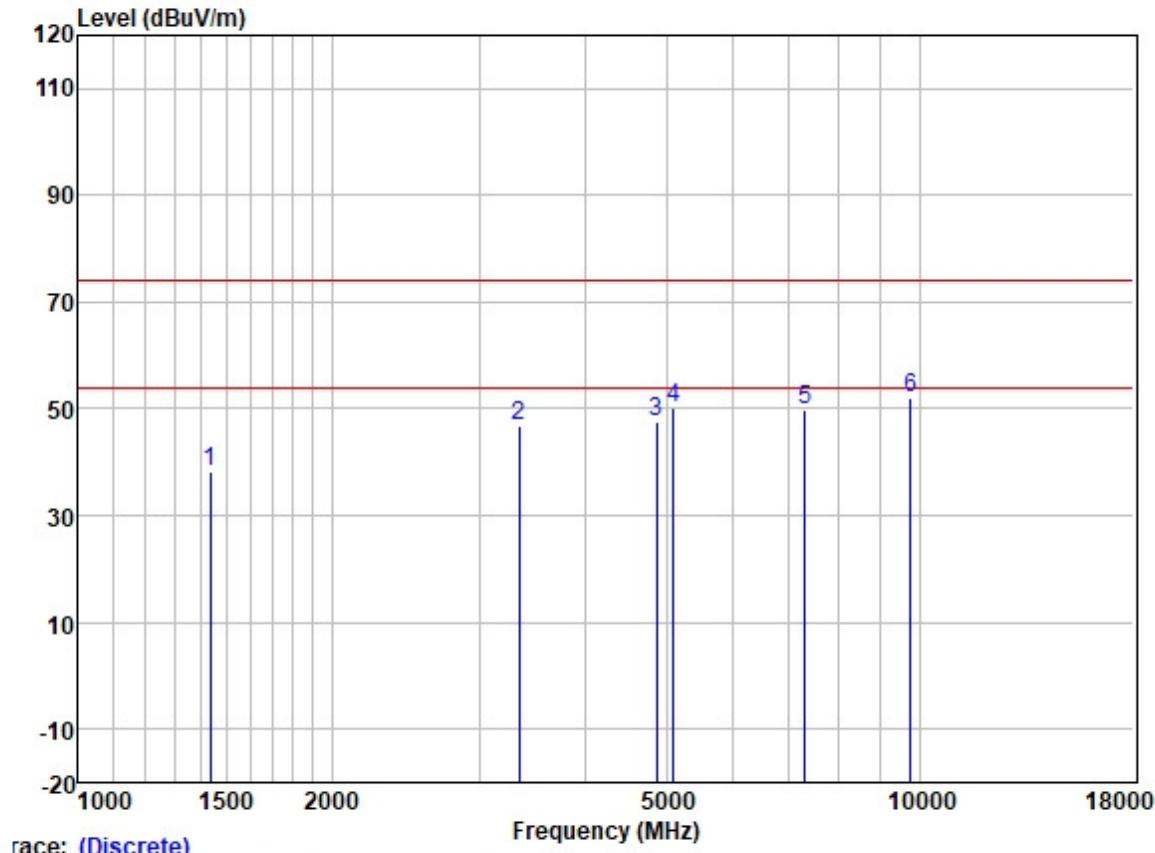
Race:	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1213.019	50.60	24.77	2.32	38.37	39.32	74.00	-34.68	VERTICAL	Peak
2	3686.890	49.62	29.20	4.54	36.88	46.48	74.00	-27.52	VERTICAL	Peak
3	4844.000	47.17	31.50	5.45	36.84	47.28	74.00	-26.72	VERTICAL	Peak
4	5783.930	48.57	32.16	6.10	36.89	49.94	74.00	-24.06	VERTICAL	Peak
5	7266.000	45.41	35.78	6.06	37.41	49.84	74.00	-24.16	VERTICAL	Peak
6	9688.000	44.43	38.44	7.04	37.42	52.49	74.00	-21.51	VERTICAL	Peak

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Test Mode: 32; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Race: (Discrete)

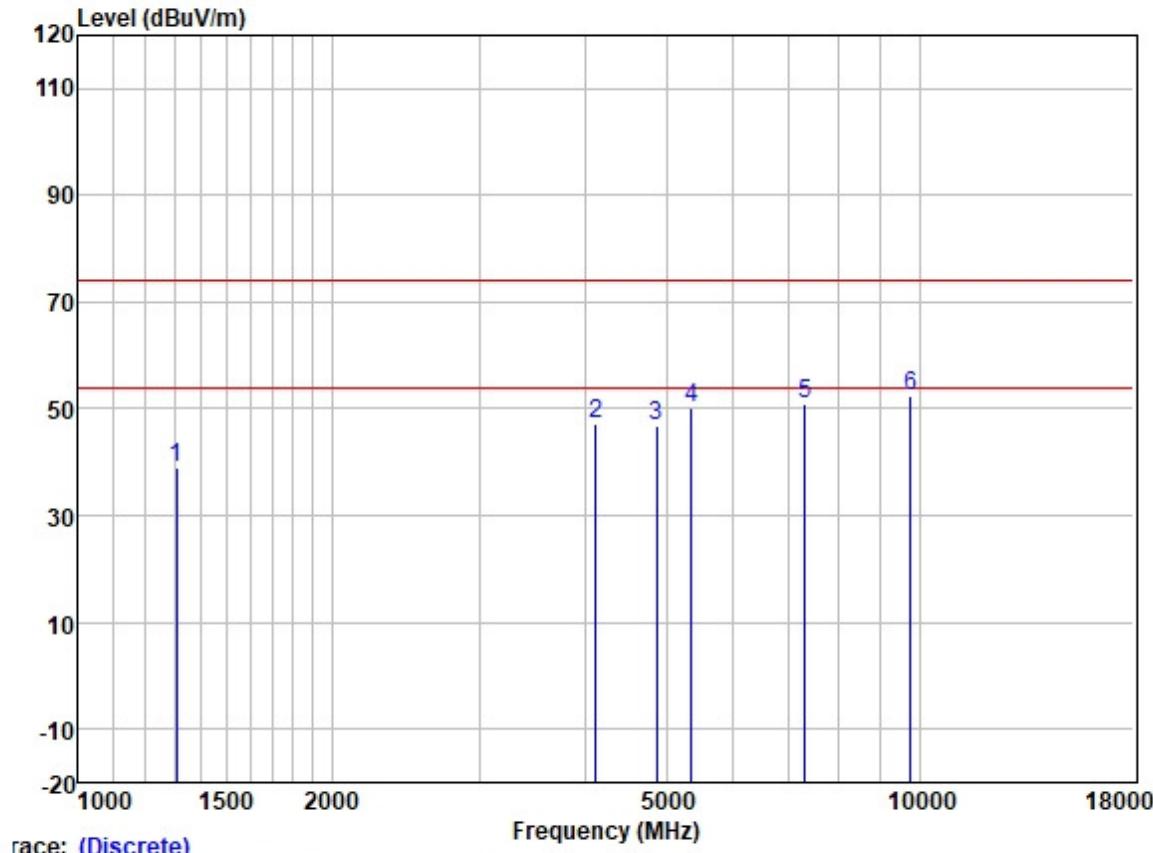
	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1436.097	48.37	25.44	2.67	38.20	38.28	74.00	-35.72	HORIZONTAL	Peak		
2	3341.674	50.95	28.79	4.08	37.01	46.81	74.00	-27.19	HORIZONTAL	Peak		
3	4874.000	47.19	31.54	5.50	36.84	47.39	74.00	-26.61	HORIZONTAL	Peak		
4	5096.715	49.61	31.71	5.66	36.86	50.12	74.00	-23.88	HORIZONTAL	Peak		
5	7311.000	45.35	35.93	6.11	37.42	49.97	74.00	-24.03	HORIZONTAL	Peak		
6	9748.000	44.00	38.50	7.02	37.41	52.11	74.00	-21.89	HORIZONTAL	Peak		

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Test Mode: 32; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
1	1308.753	49.37	25.22	2.60	38.31	38.88	74.00	-35.12	VERTICAL Peak
2	4117.279	49.48	29.98	4.60	36.80	47.26	74.00	-26.74	VERTICAL Peak
3	4874.000	46.63	31.54	5.50	36.84	46.83	74.00	-27.17	VERTICAL Peak
4	5361.101	49.40	31.78	6.03	36.88	50.33	74.00	-23.67	VERTICAL Peak
5	7311.000	46.35	35.93	6.11	37.42	50.97	74.00	-23.03	VERTICAL Peak
6	9748.000	44.40	38.50	7.02	37.41	52.51	74.00	-21.49	VERTICAL Peak

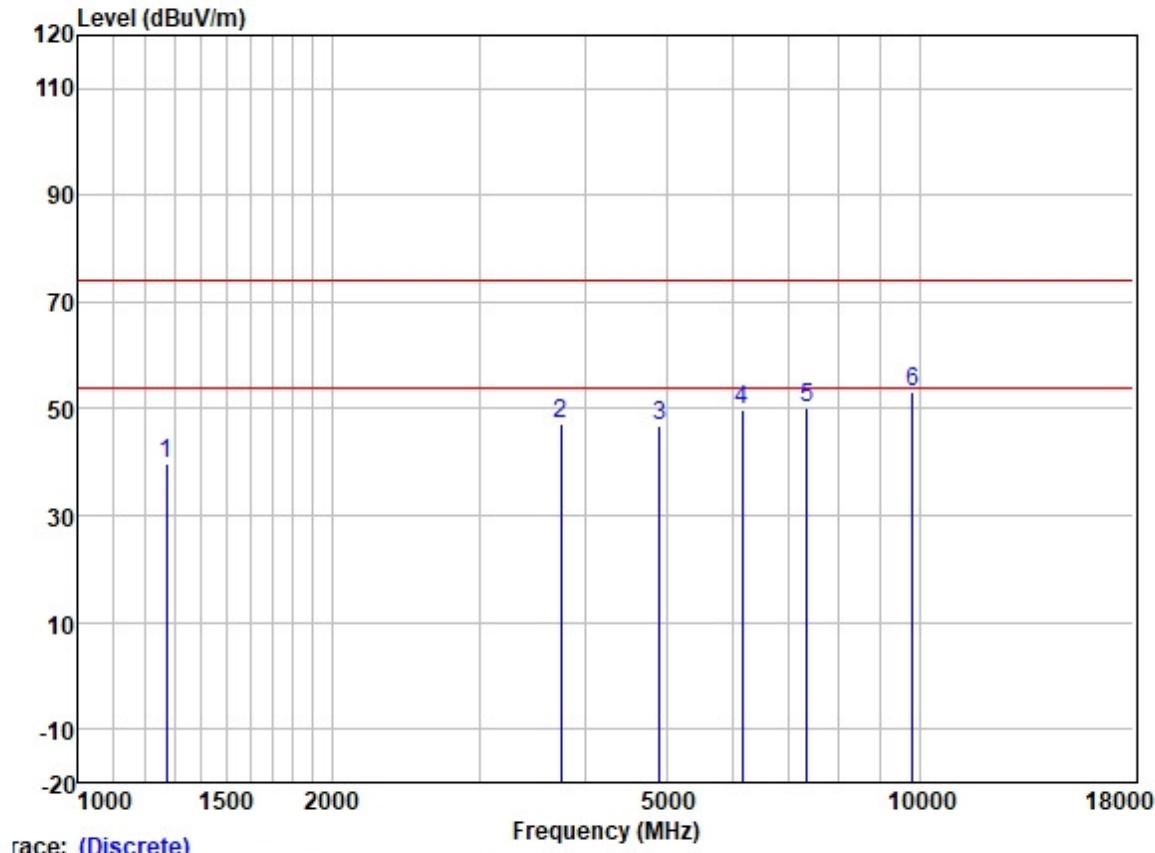
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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Test Mode: 32; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

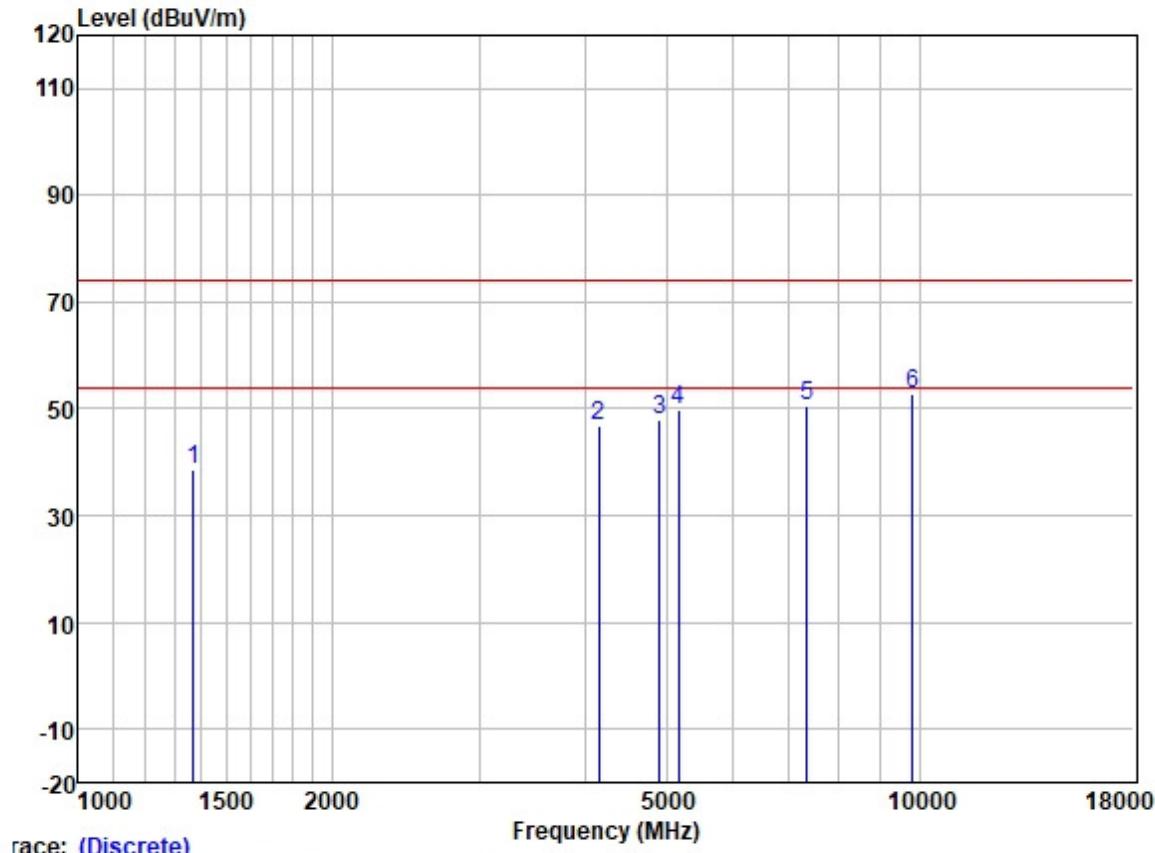
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 1271.101	50.37	25.11	2.46	38.33	39.61	74.00	-34.39	HORIZONTAL	Peak		
2 3750.373	50.02	29.39	4.58	36.86	47.13	74.00	-26.87	HORIZONTAL	Peak		
3 4904.000	46.53	31.58	5.55	36.84	46.82	74.00	-27.18	HORIZONTAL	Peak		
4 6161.724	47.94	32.83	6.10	36.93	49.94	74.00	-24.06	HORIZONTAL	Peak		
5 7356.000	45.41	36.06	6.15	37.44	50.18	74.00	-23.82	HORIZONTAL	Peak		
6 9808.000	45.04	38.56	7.00	37.41	53.19	74.00	-20.81	HORIZONTAL	Peak		

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Test Mode: 32; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Mode: (Discrete)

Index	Frequency (MHz)	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m	dB	
1	1369.343	48.86	25.35	2.60	38.25	38.56	74.00	-35.44	VERTICAL	Peak
2	4155.934	48.98	30.06	4.60	36.80	46.84	74.00	-27.16	VERTICAL	Peak
3	4904.000	47.70	31.58	5.55	36.84	47.99	74.00	-26.01	VERTICAL	Peak
4	5163.756	49.49	31.73	5.61	36.87	49.96	74.00	-24.04	VERTICAL	Peak
5	7356.000	45.73	36.06	6.15	37.44	50.50	74.00	-23.50	VERTICAL	Peak
6	9808.000	44.82	38.56	7.00	37.41	52.97	74.00	-21.03	VERTICAL	Peak

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8 Test Setup Photo

Refer to appendix – Test Setup Photos for GZCR2108020805AT



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9 EUT Constructional Details (EUT Photos)

Refer to appendix - External and Internal Photos for GZCR2108020805AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

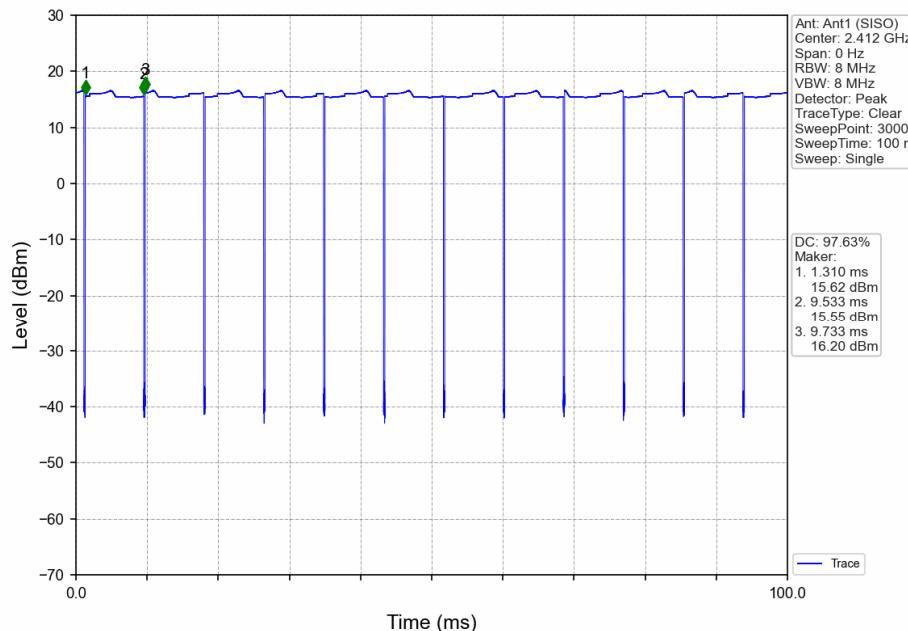
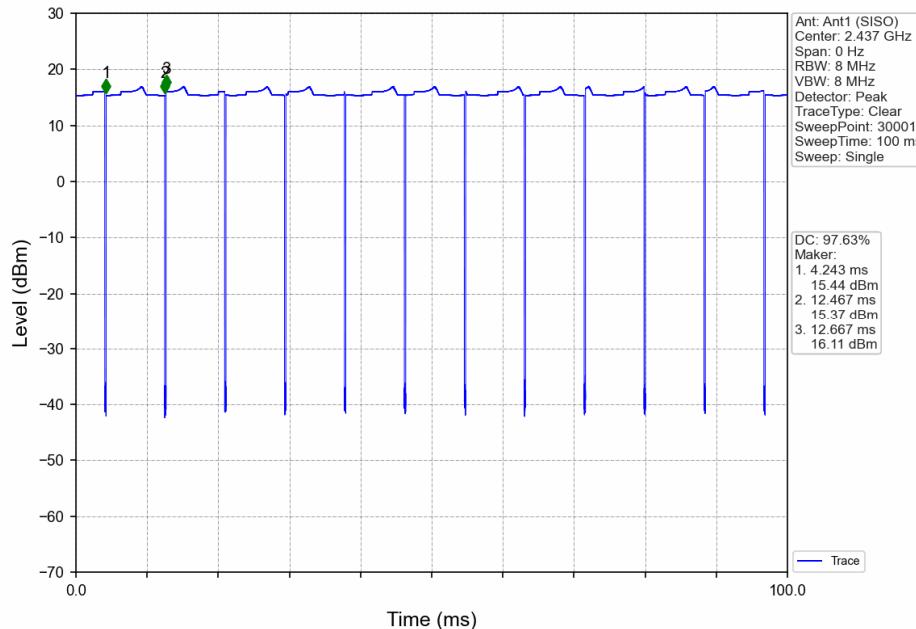
Ant1							
Mode	TX Type	Frequency (MHz)	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.223	8.423	97.63	0.10	0.04
		2437	8.224	8.424	97.63	0.10	0.04
		2462	8.223	8.423	97.63	0.10	0.04
802.11g	SISO	2412	1.364	1.562	87.32	0.59	0.03
		2437	1.364	1.562	87.32	0.59	0.03
		2462	1.364	1.562	87.32	0.59	0.03
802.11n (HT20)	SISO	2412	1.267	1.474	85.96	0.66	0.00
		2437	1.267	1.474	85.96	0.66	0.00
		2462	1.267	1.475	85.90	0.66	0.03
802.11n (HT40)	SISO	2422	0.624	0.836	74.64	1.27	0.06
		2437	0.625	0.835	74.85	1.26	0.03
		2452	0.636	0.835	76.17	1.18	0.01

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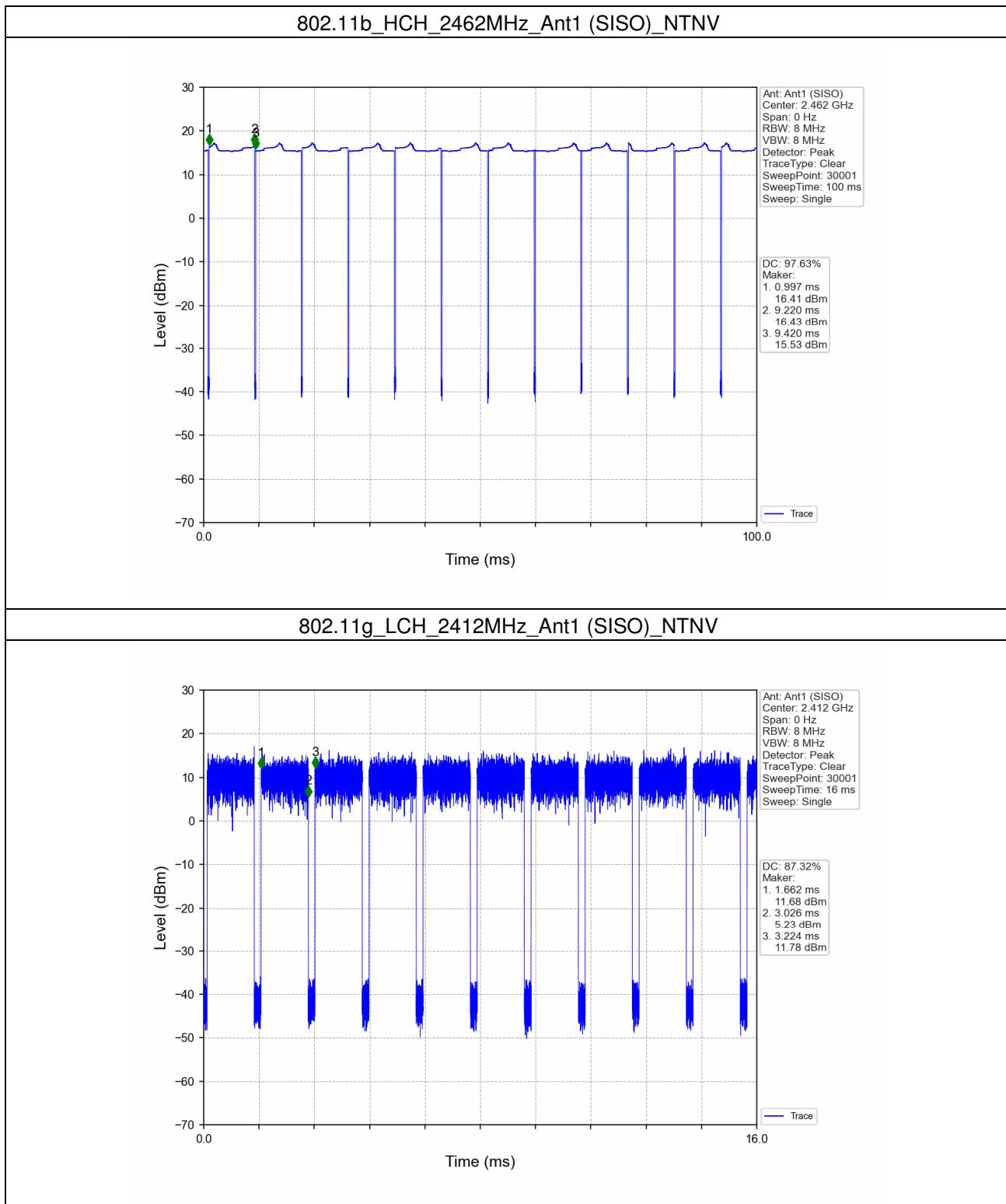
1.1.2 Test Graph**802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV****802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV**

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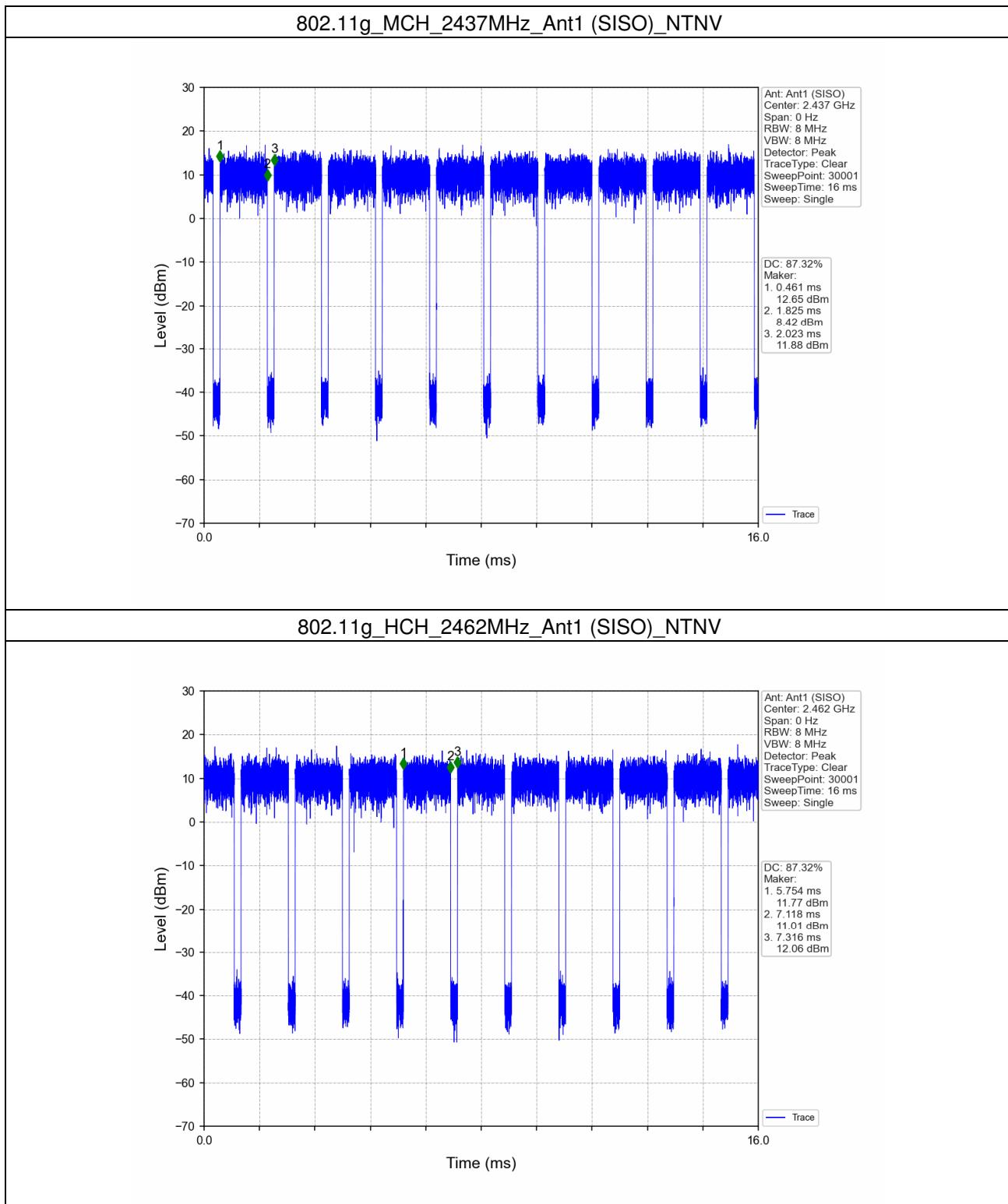


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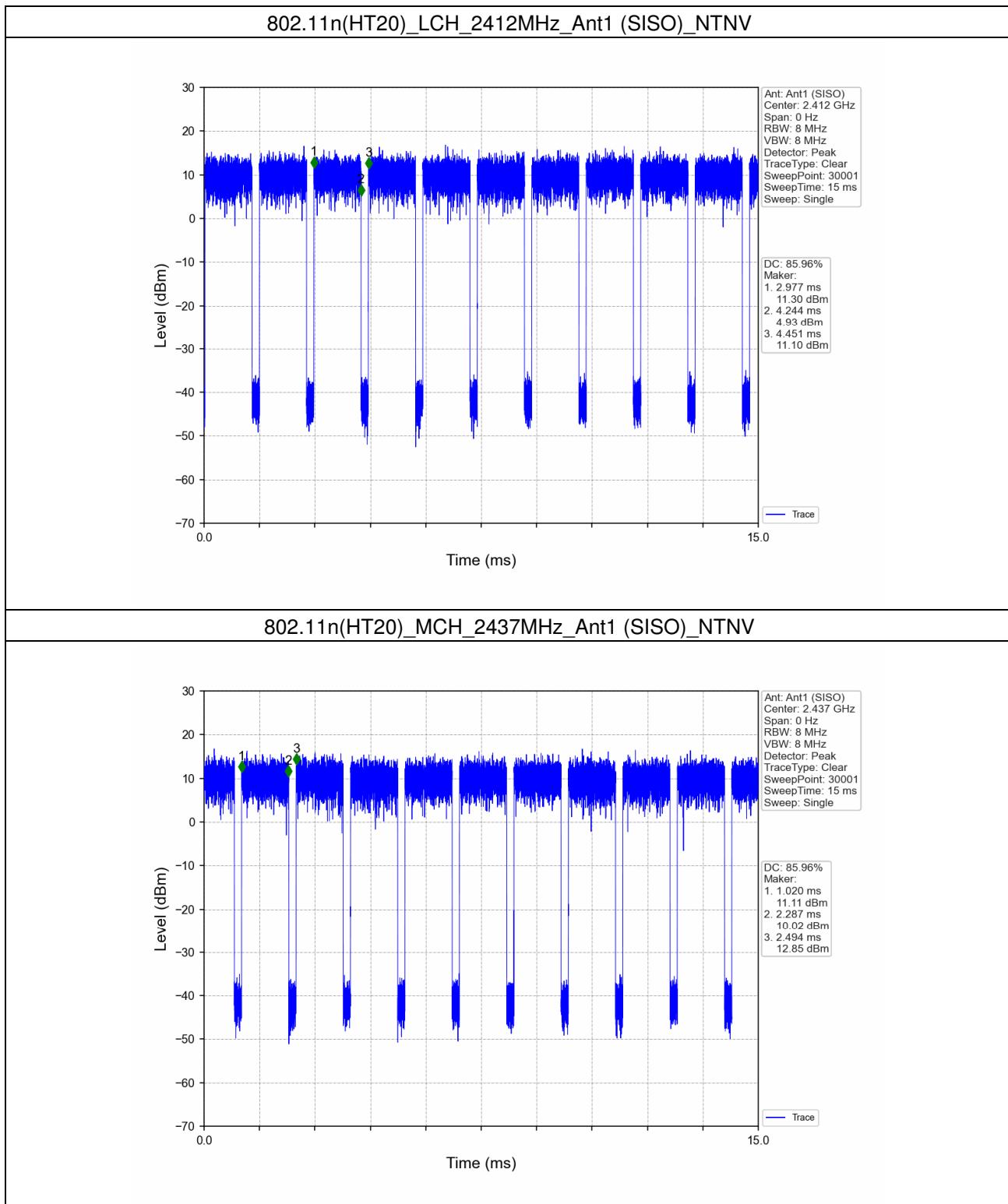


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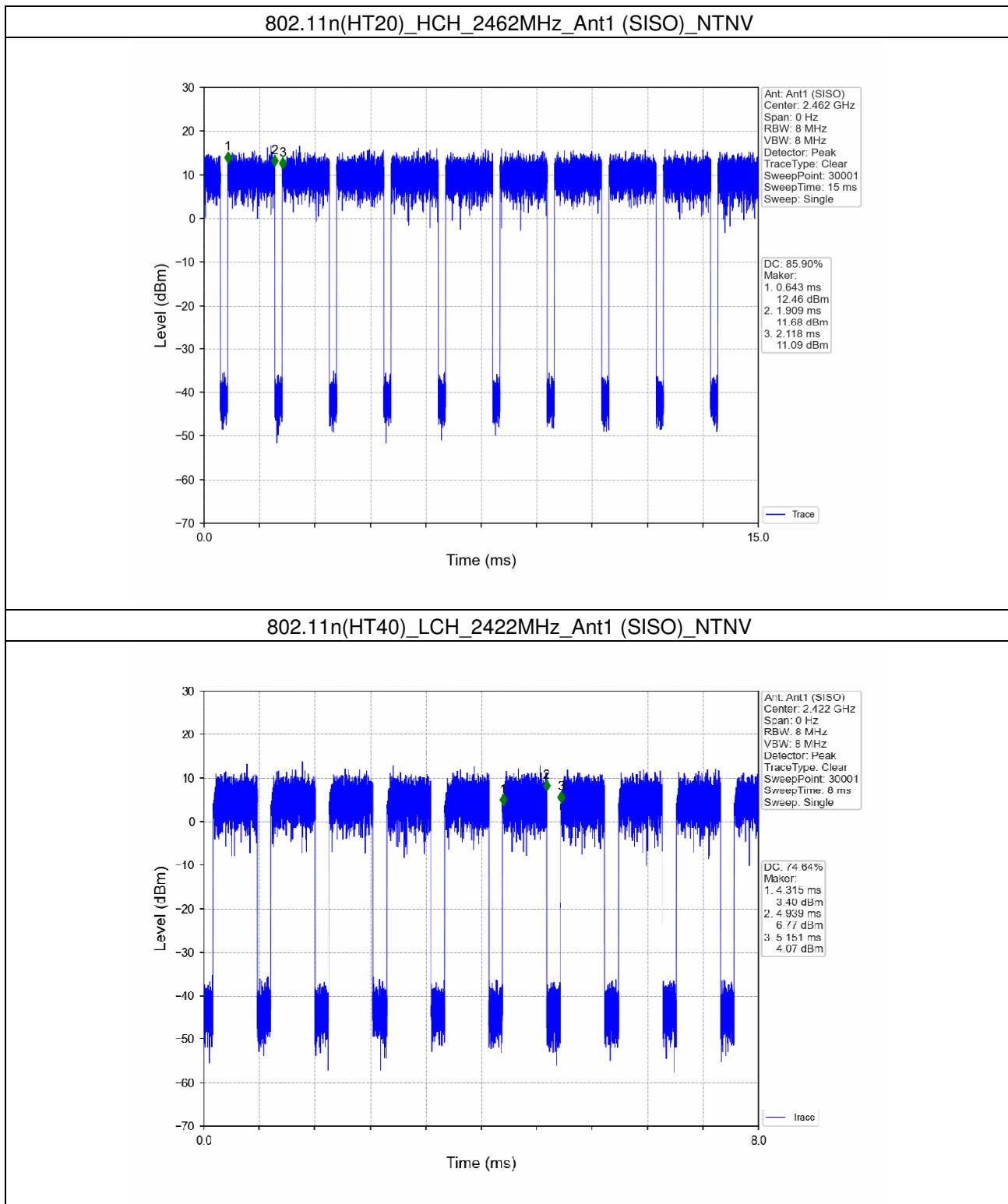


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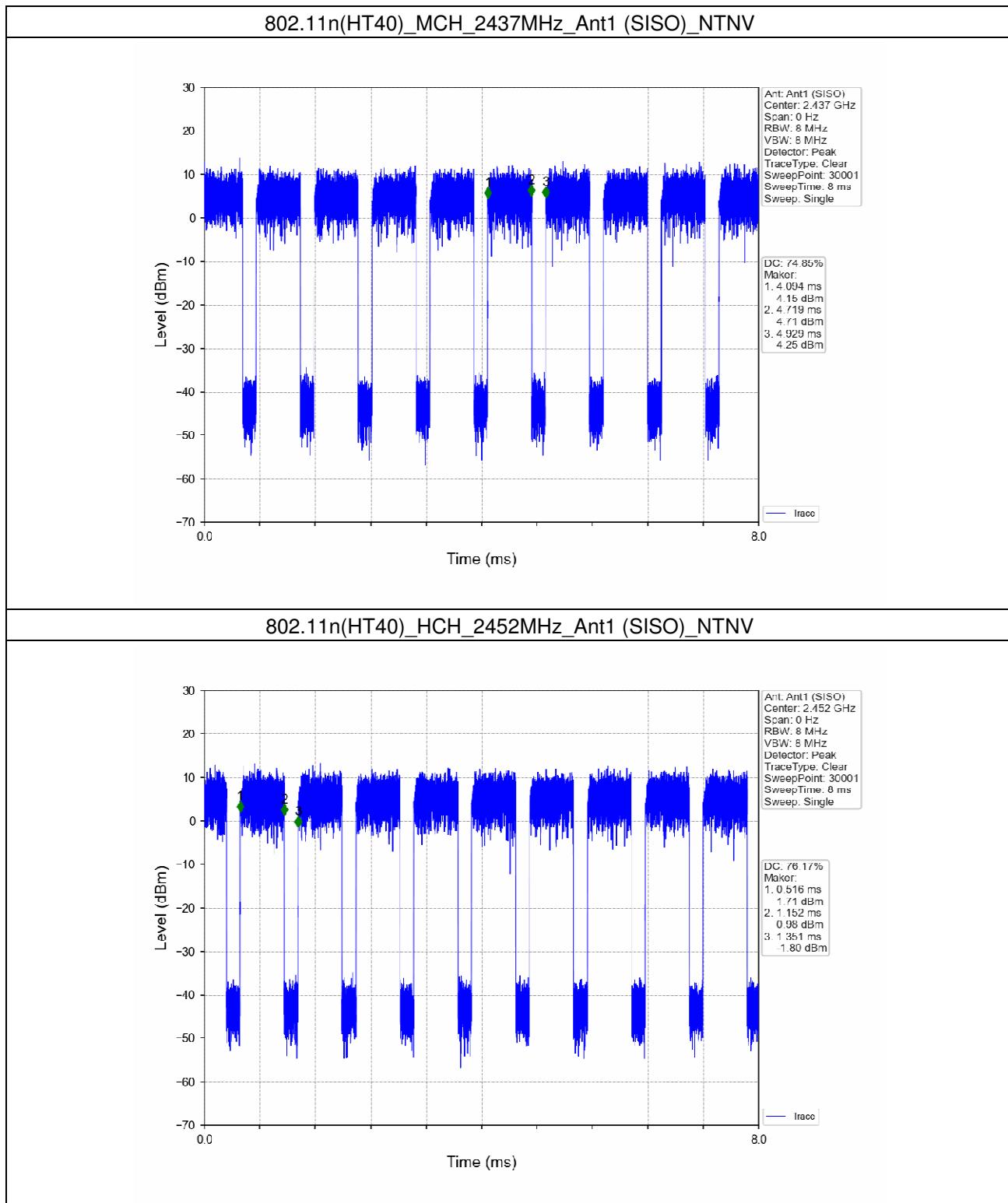


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2. Bandwidth

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	8.120	>=0.5	Pass
		2437	1	8.579	>=0.5	Pass
		2462	1	8.593	>=0.5	Pass
802.11g	SISO	2412	1	16.388	>=0.5	Pass
		2437	1	16.405	>=0.5	Pass
		2462	1	16.464	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.594	>=0.5	Pass
		2437	1	17.629	>=0.5	Pass
		2462	1	17.645	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.374	>=0.5	Pass
		2437	1	35.204	>=0.5	Pass
		2452	1	35.193	>=0.5	Pass

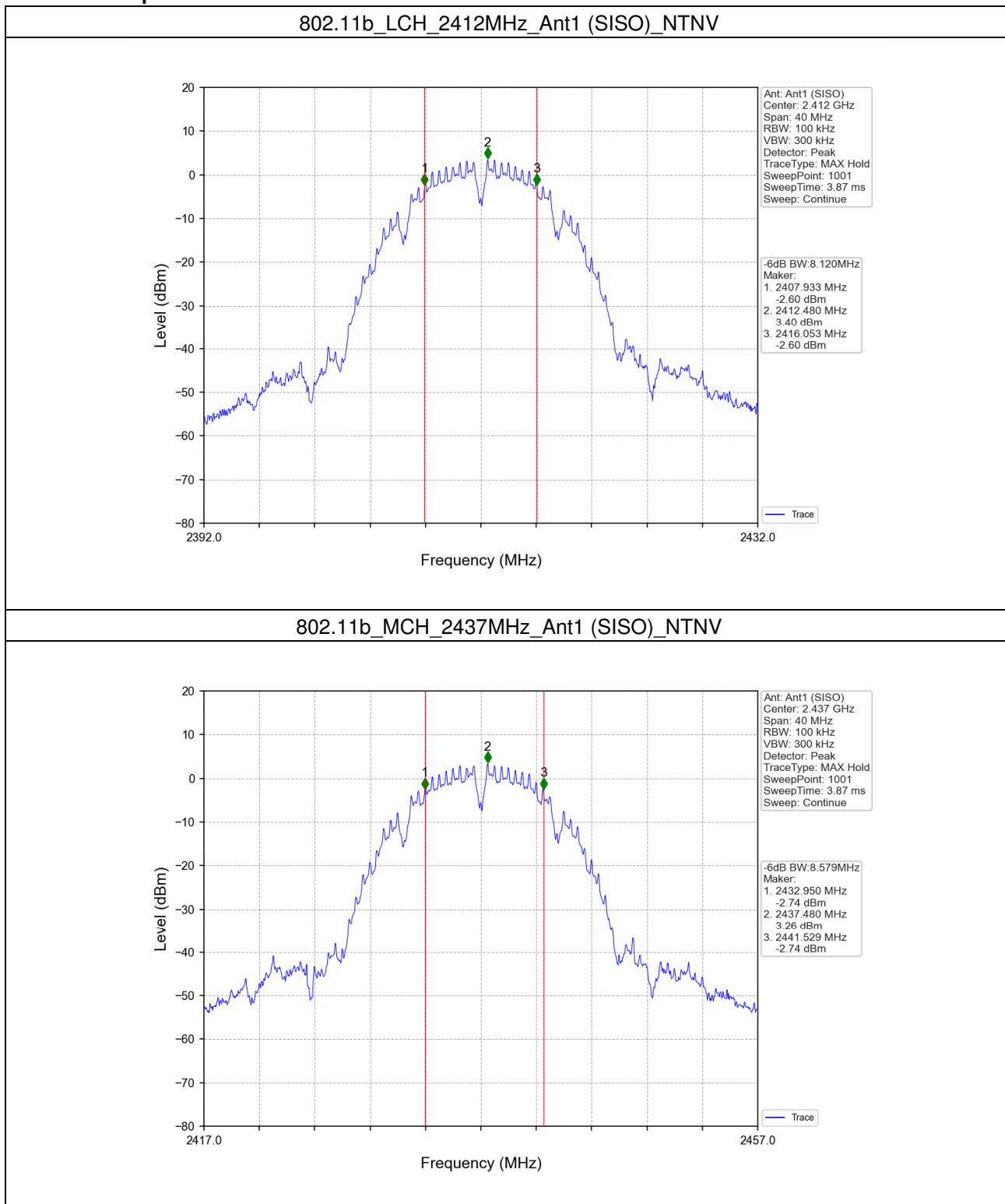
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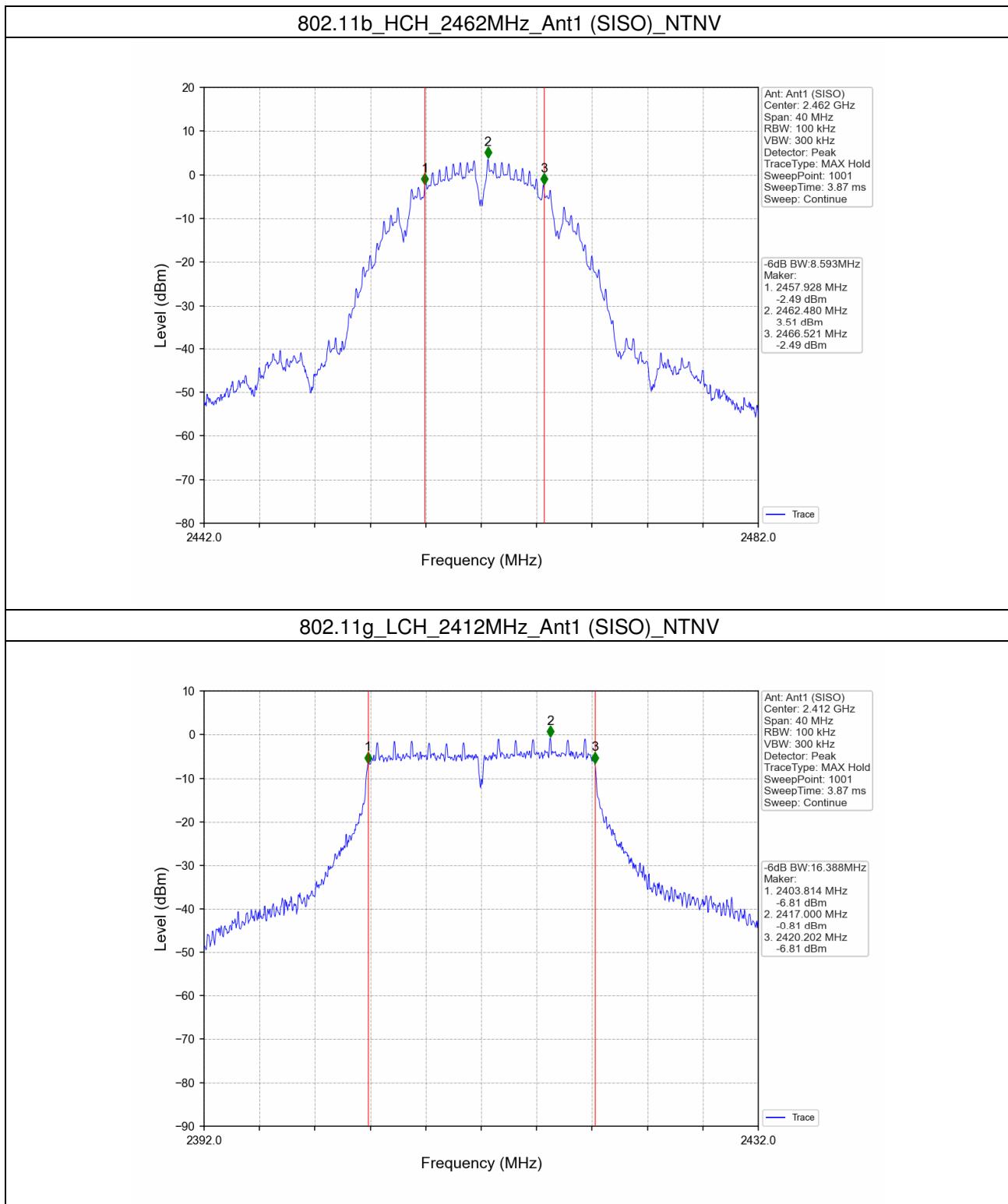
2.1.2 Test Graph

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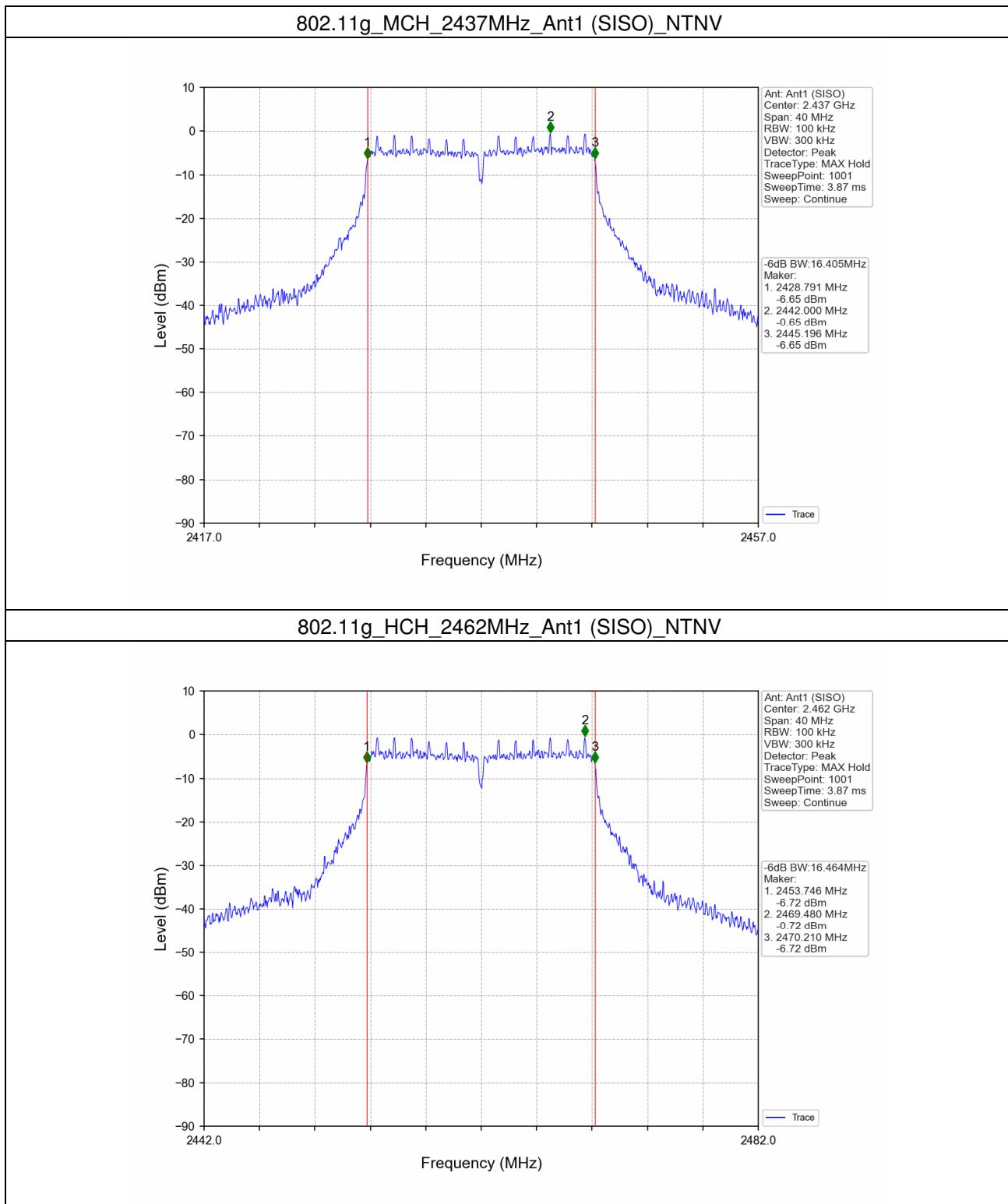


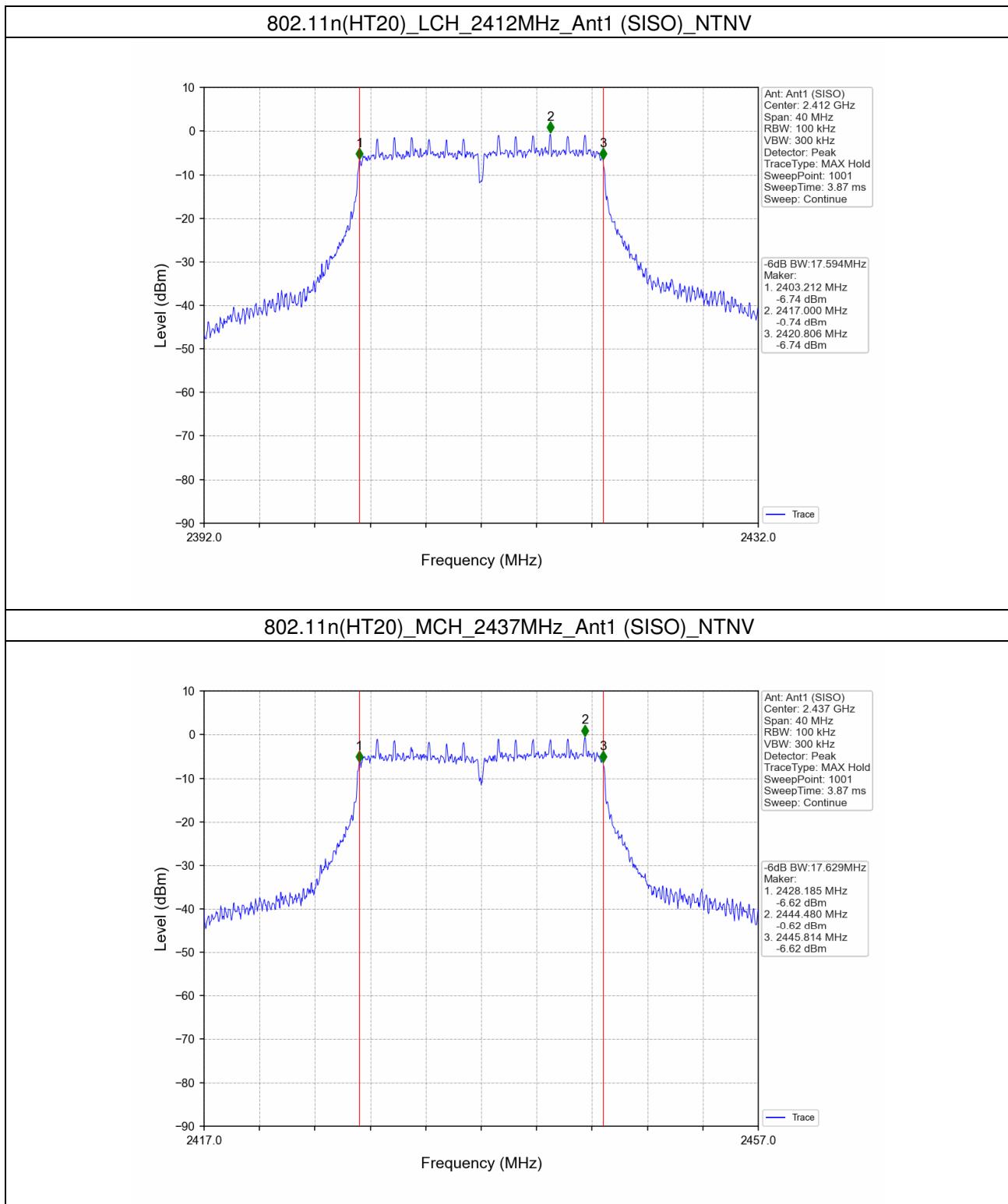
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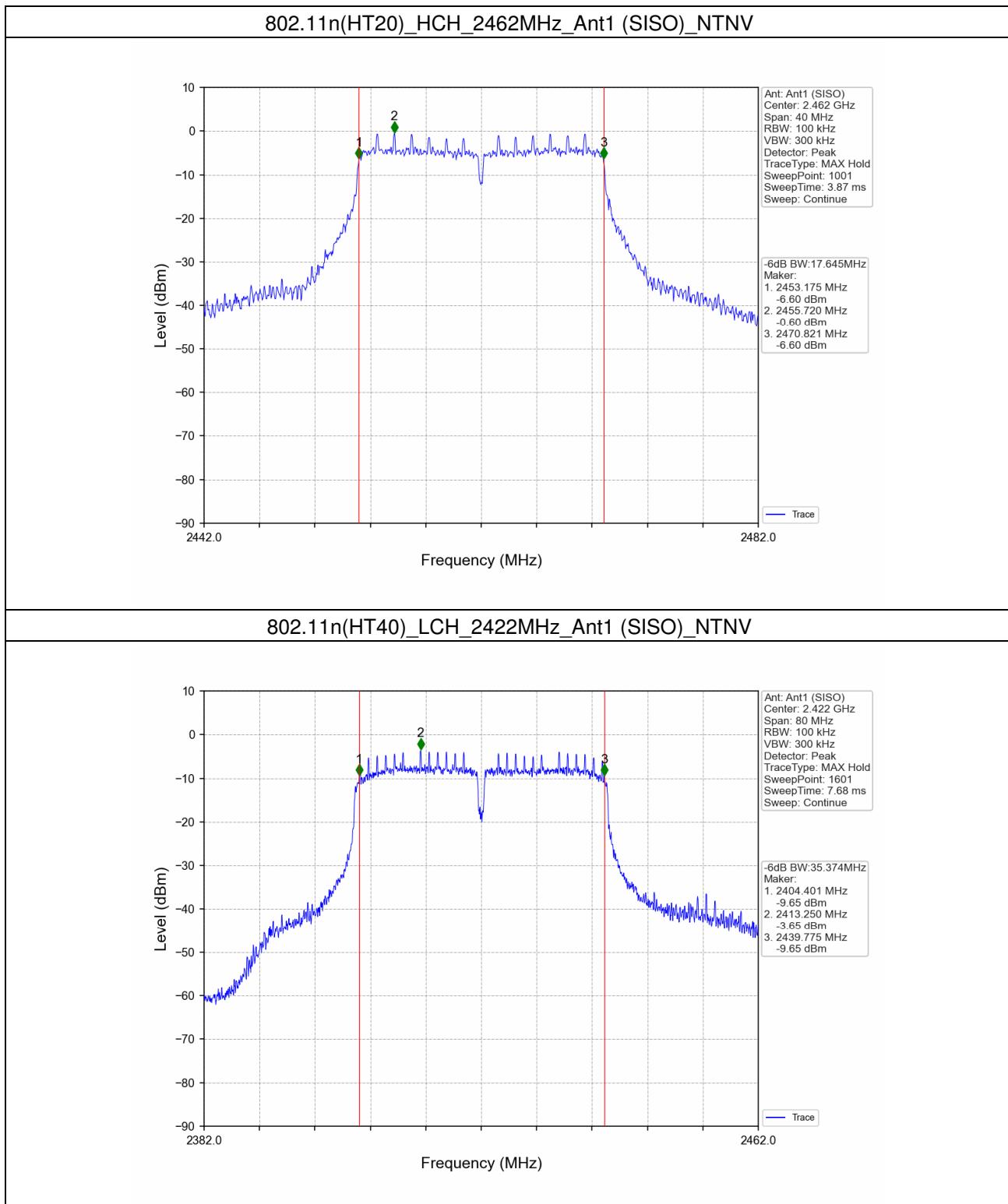
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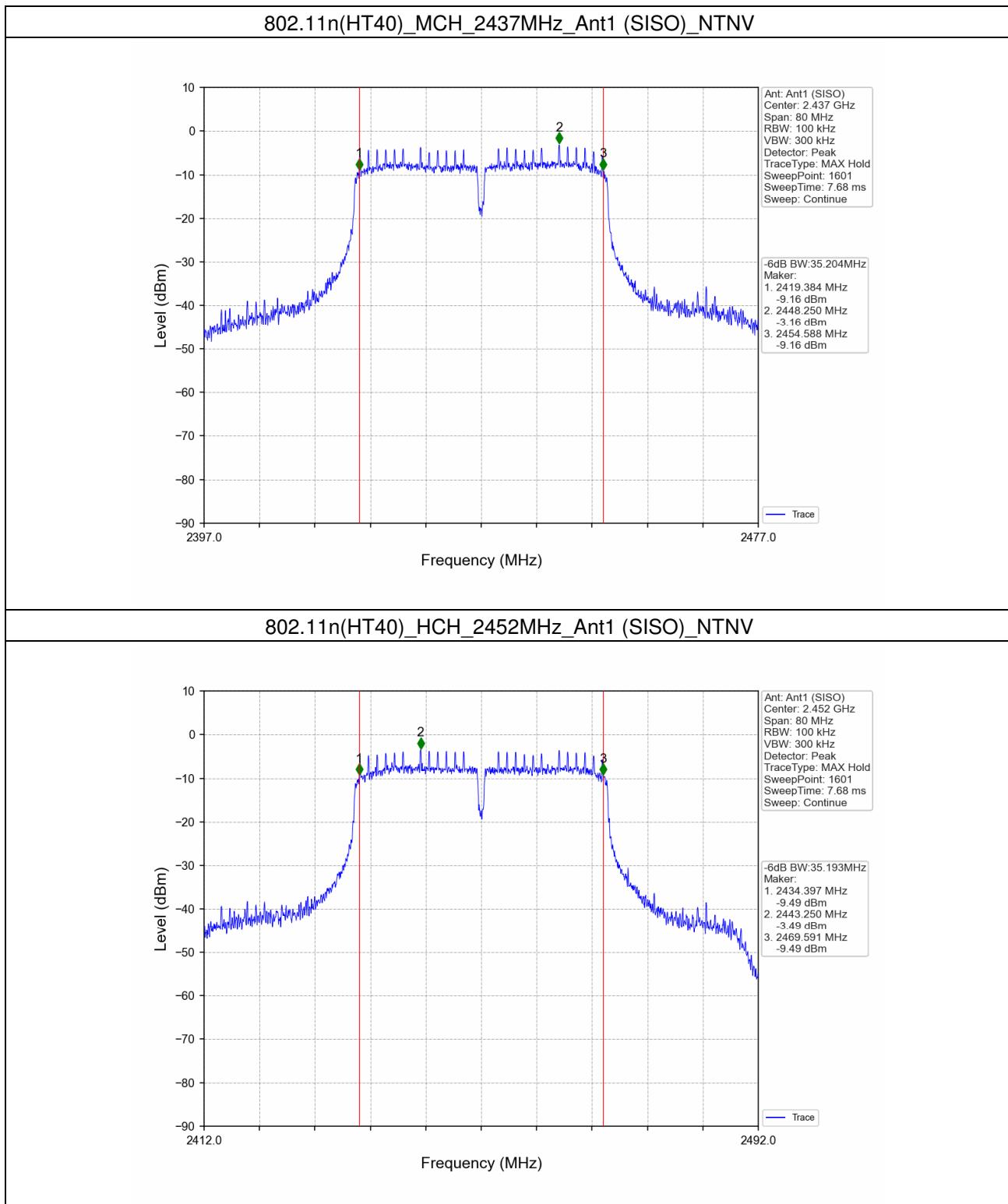
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3. Maximum Conducted Output Power

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	11.65	<=30	Pass
		2437	11.68	<=30	Pass
		2462	11.72	<=30	Pass
802.11g	SISO	2412	10.05	<=30	Pass
		2437	10.35	<=30	Pass
		2462	10.32	<=30	Pass
802.11n (HT20)	SISO	2412	10.22	<=30	Pass
		2437	10.23	<=30	Pass
		2462	10.50	<=30	Pass
802.11n (HT40)	SISO	2422	10.05	<=30	Pass
		2437	10.40	<=30	Pass
		2452	10.25	<=30	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

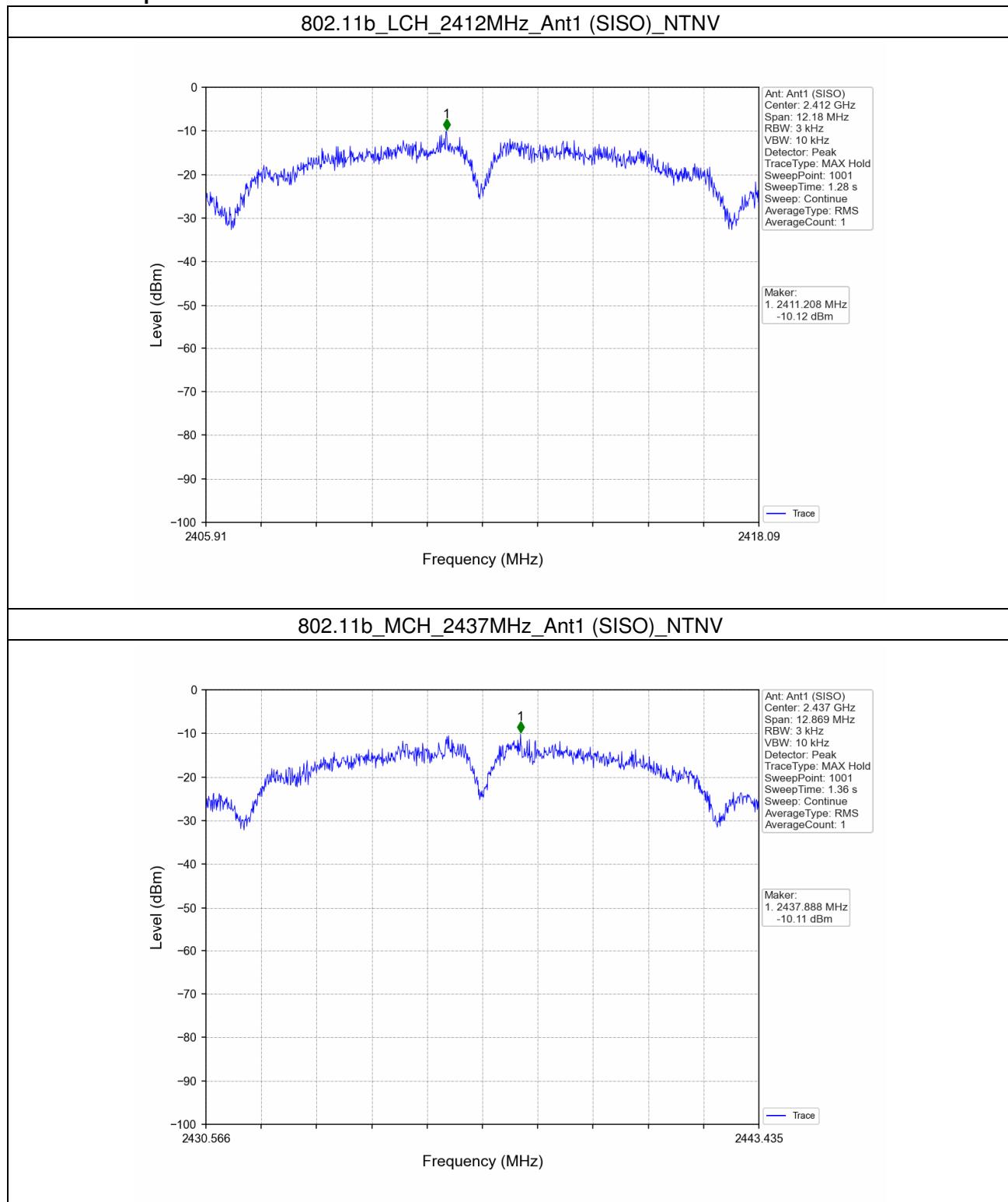
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
802.11b	SISO	2412	-10.12	<=8	Pass
		2437	-10.11	<=8	Pass
		2462	-11.03	<=8	Pass
802.11g	SISO	2412	-15.53	<=8	Pass
		2437	-13.45	<=8	Pass
		2462	-15.01	<=8	Pass
802.11n (HT20)	SISO	2412	-16.04	<=8	Pass
		2437	-15.47	<=8	Pass
		2462	-15.25	<=8	Pass
802.11n (HT40)	SISO	2422	-18.51	<=8	Pass
		2437	-18.04	<=8	Pass
		2452	-17.43	<=8	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;



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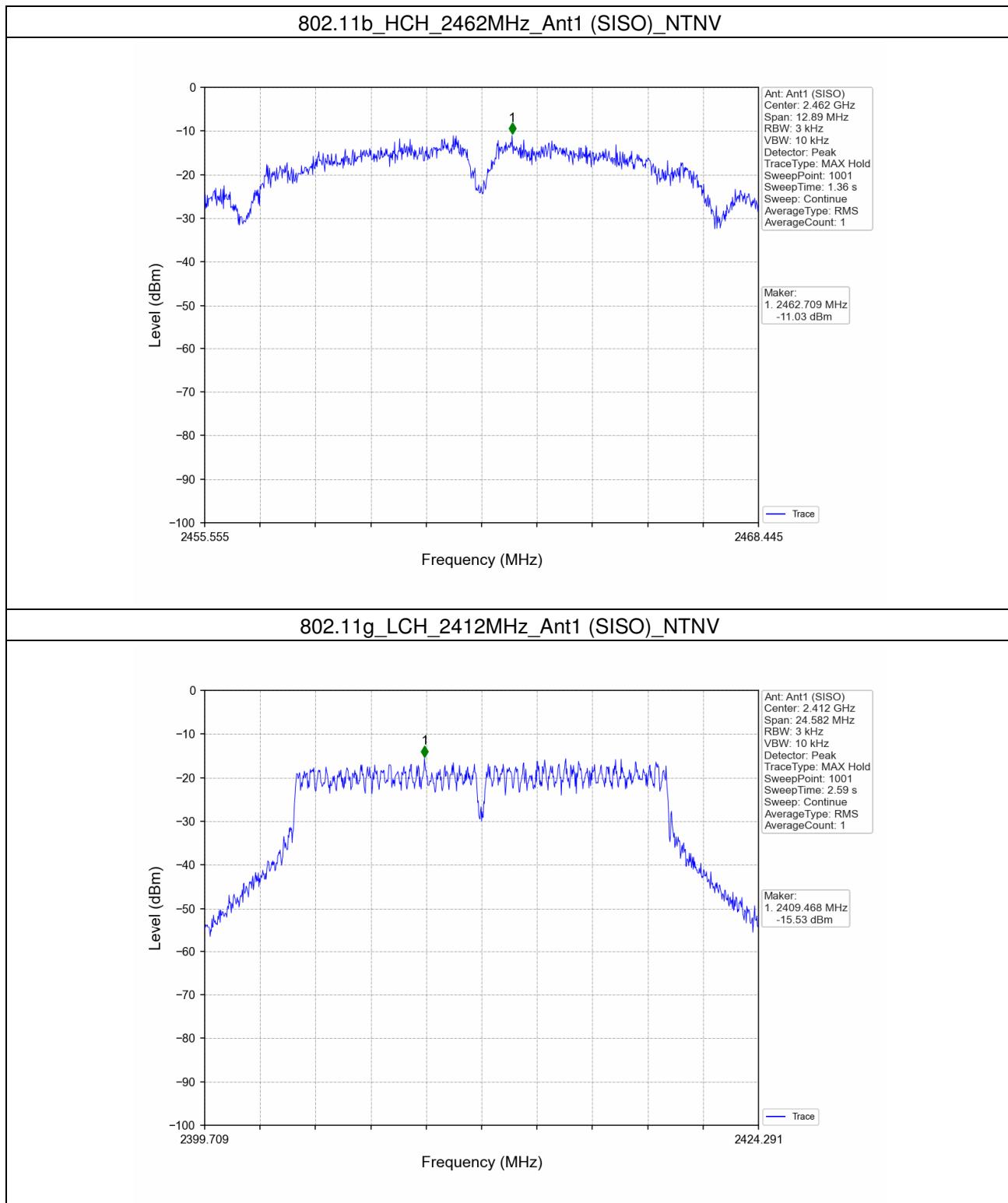
4.1.2 Test Graph

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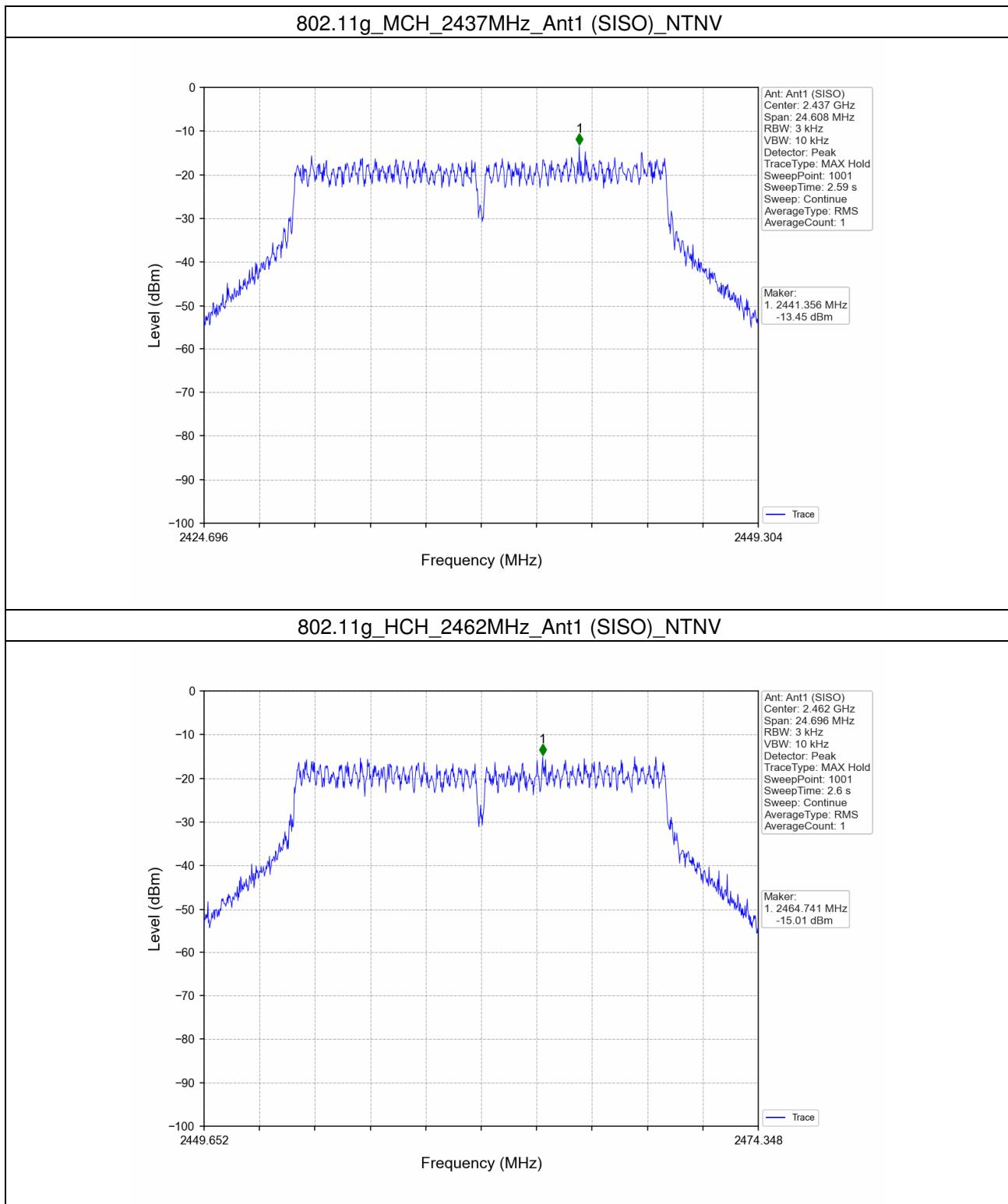


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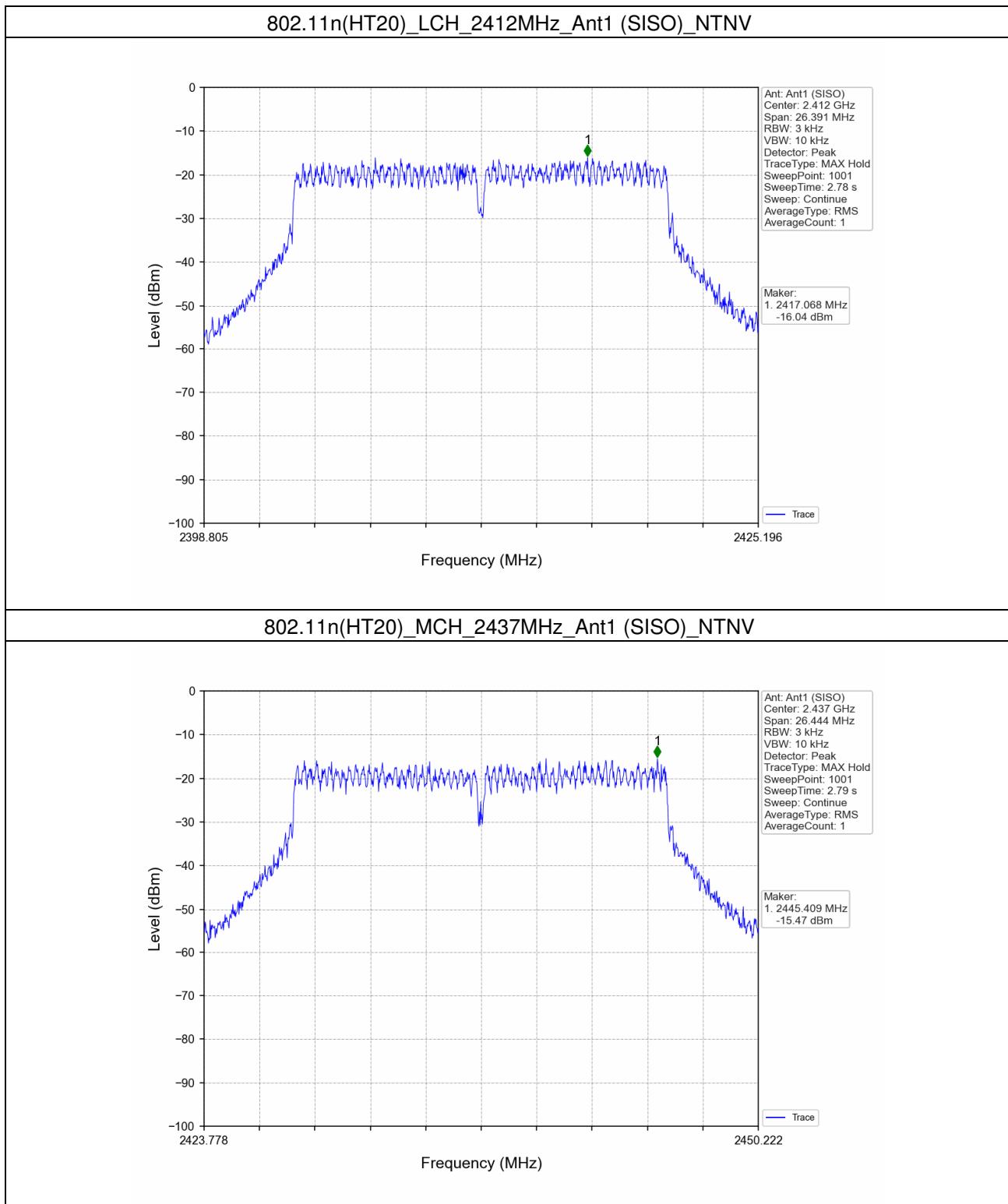


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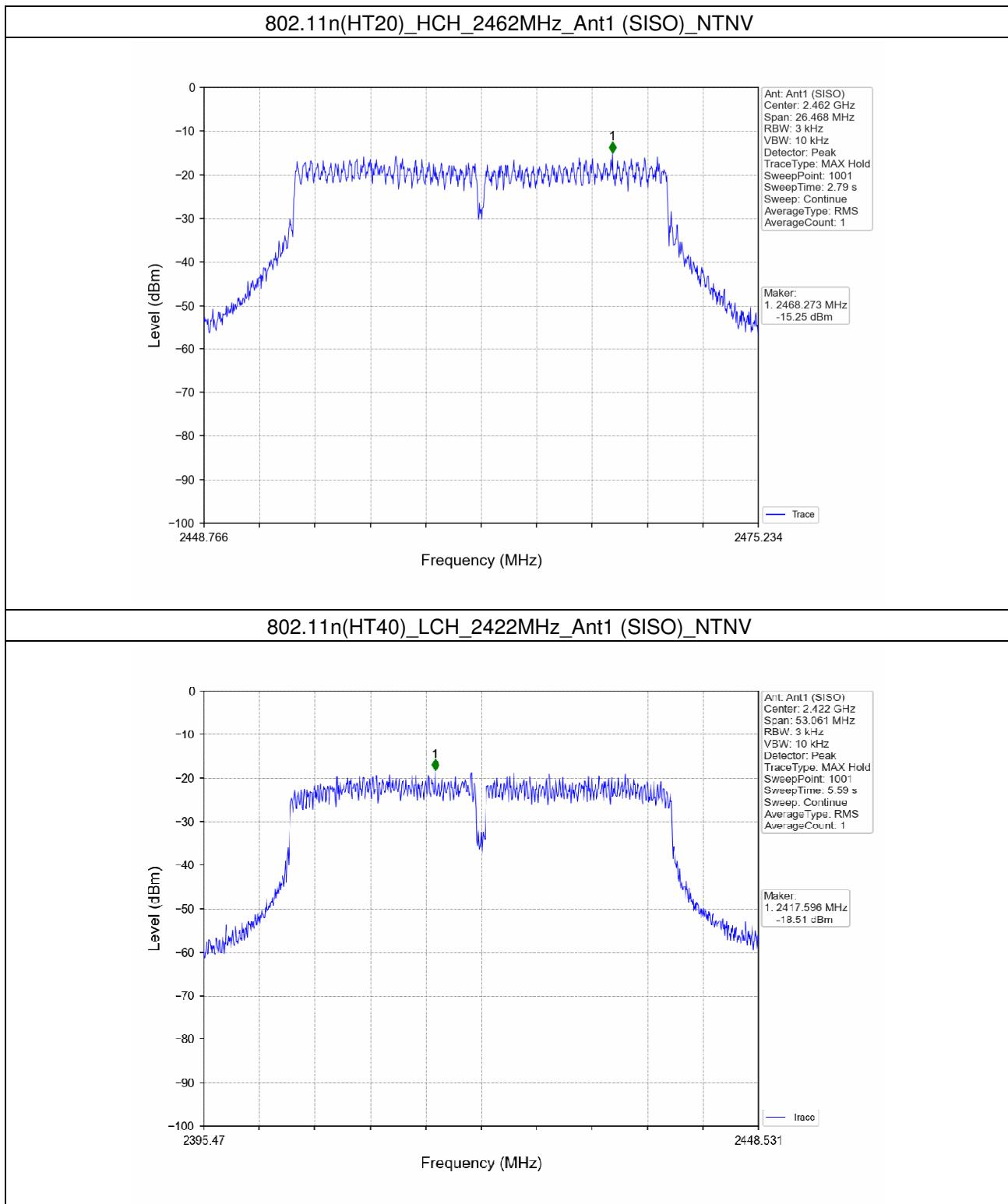


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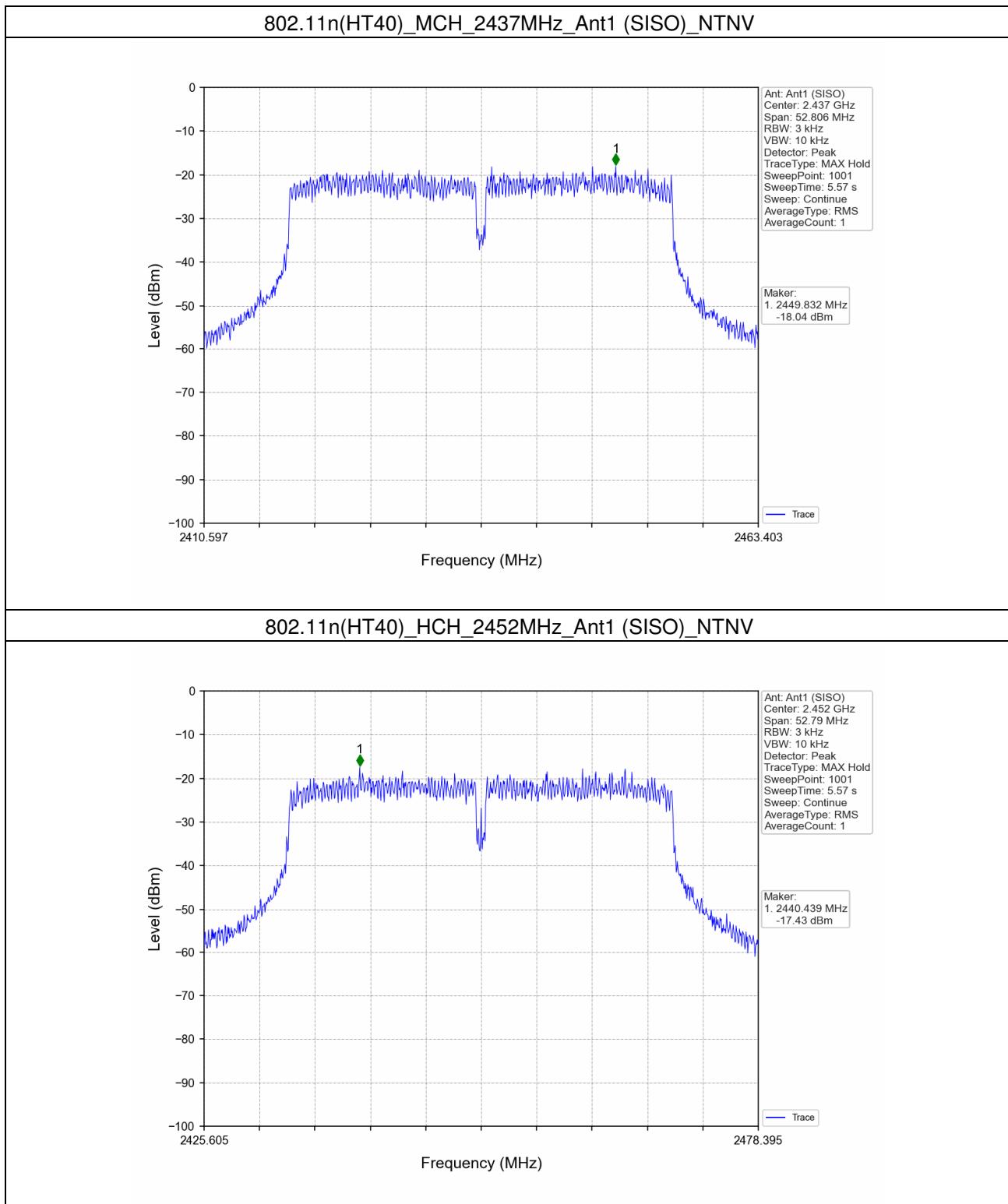


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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
802.11b	SISO	2412	1	3.28
		2437	1	3.14
		2462	1	3.31
802.11g	SISO	2412	1	-1.07
		2437	1	-0.71
		2462	1	-0.75
802.11n (HT20)	SISO	2412	1	-0.84
		2437	1	-0.64
		2462	1	-0.64
802.11n (HT40)	SISO	2422	1	-3.55
		2437	1	-3.26
		2452	1	-3.45

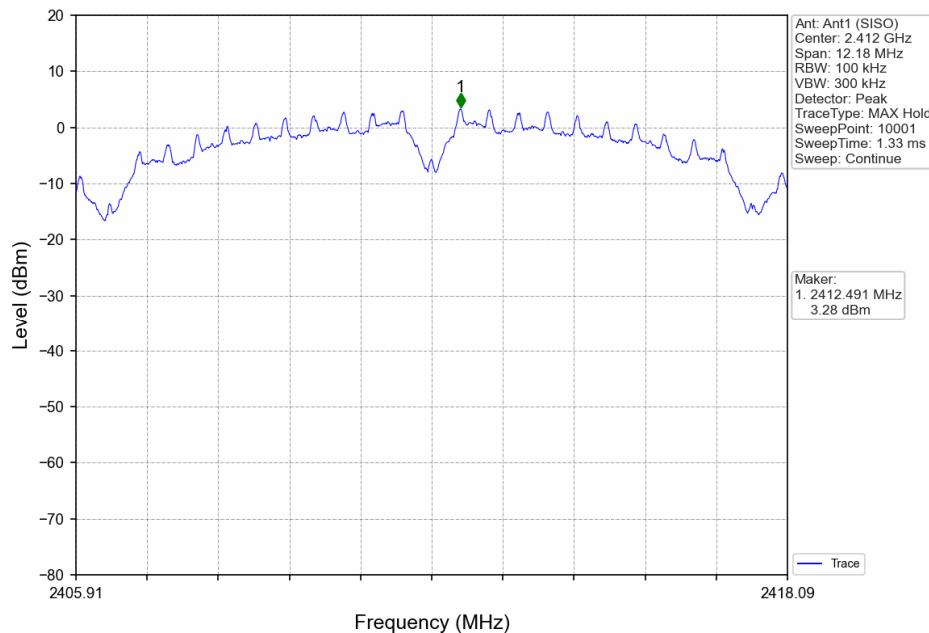
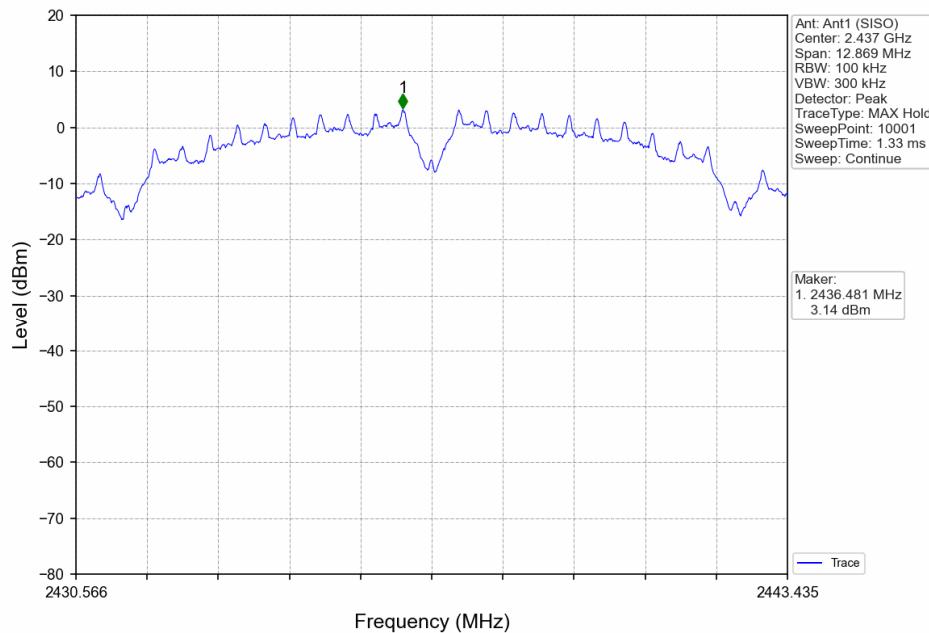
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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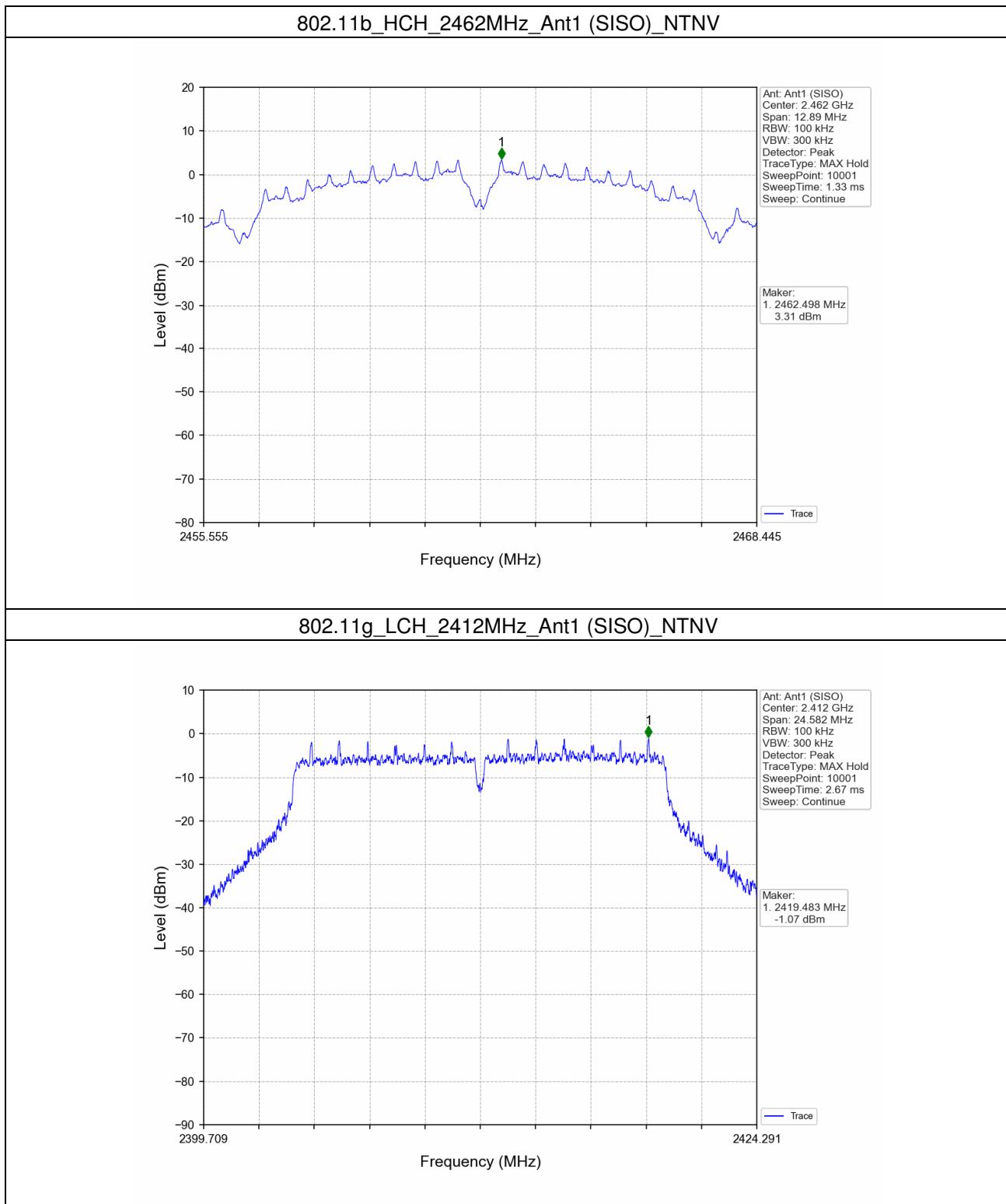
5.1.2 Test Graph**802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV****802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV**

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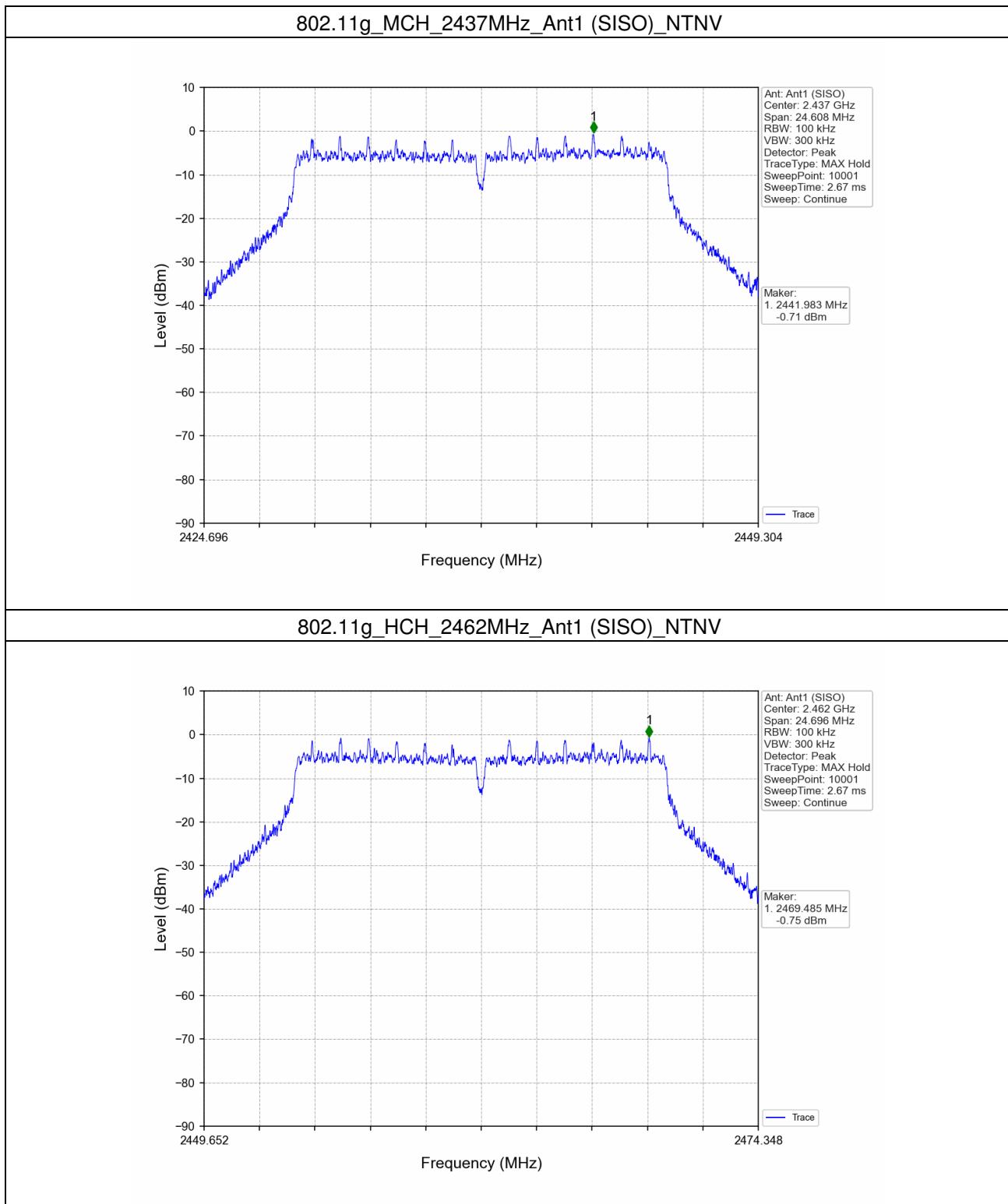
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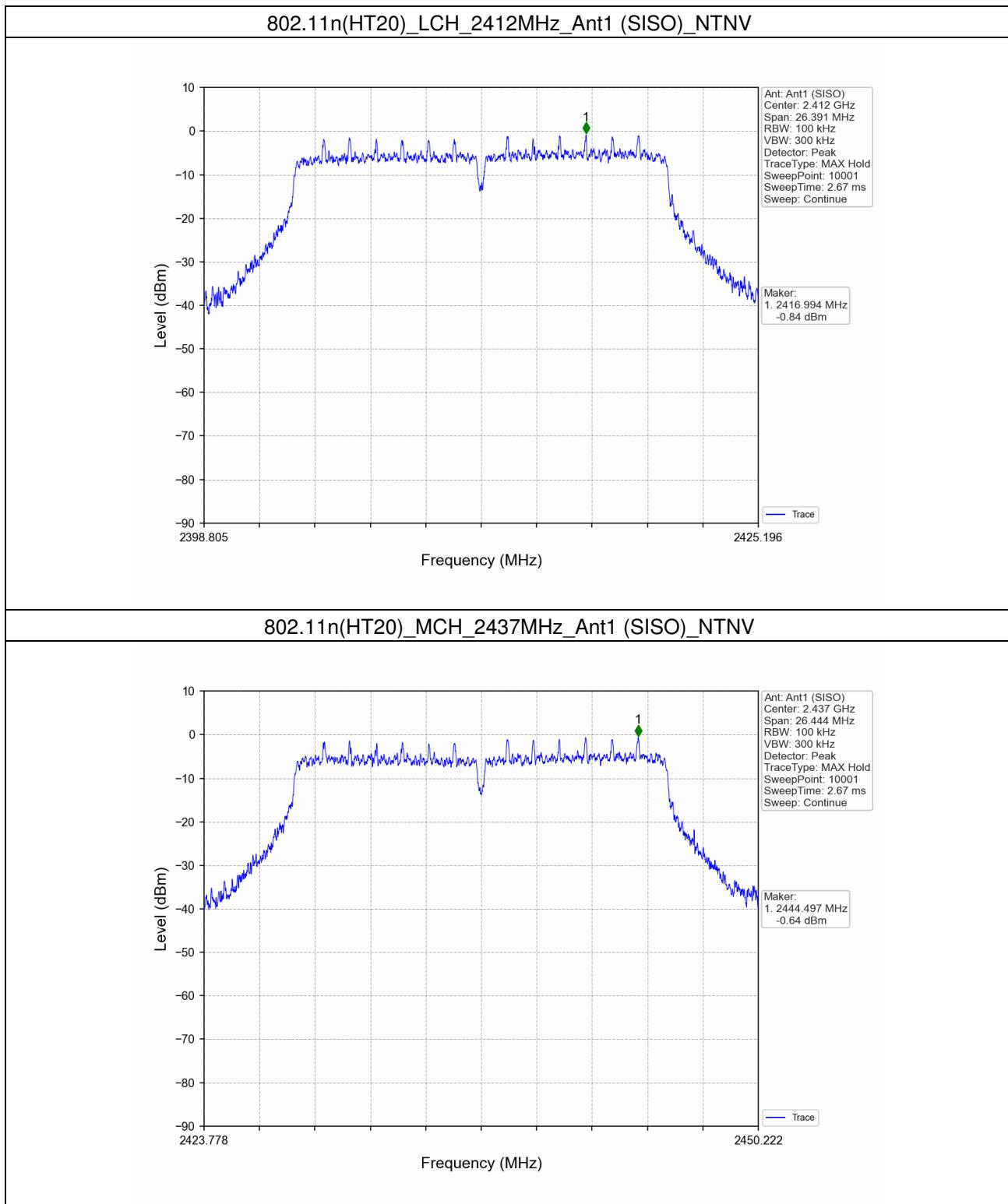


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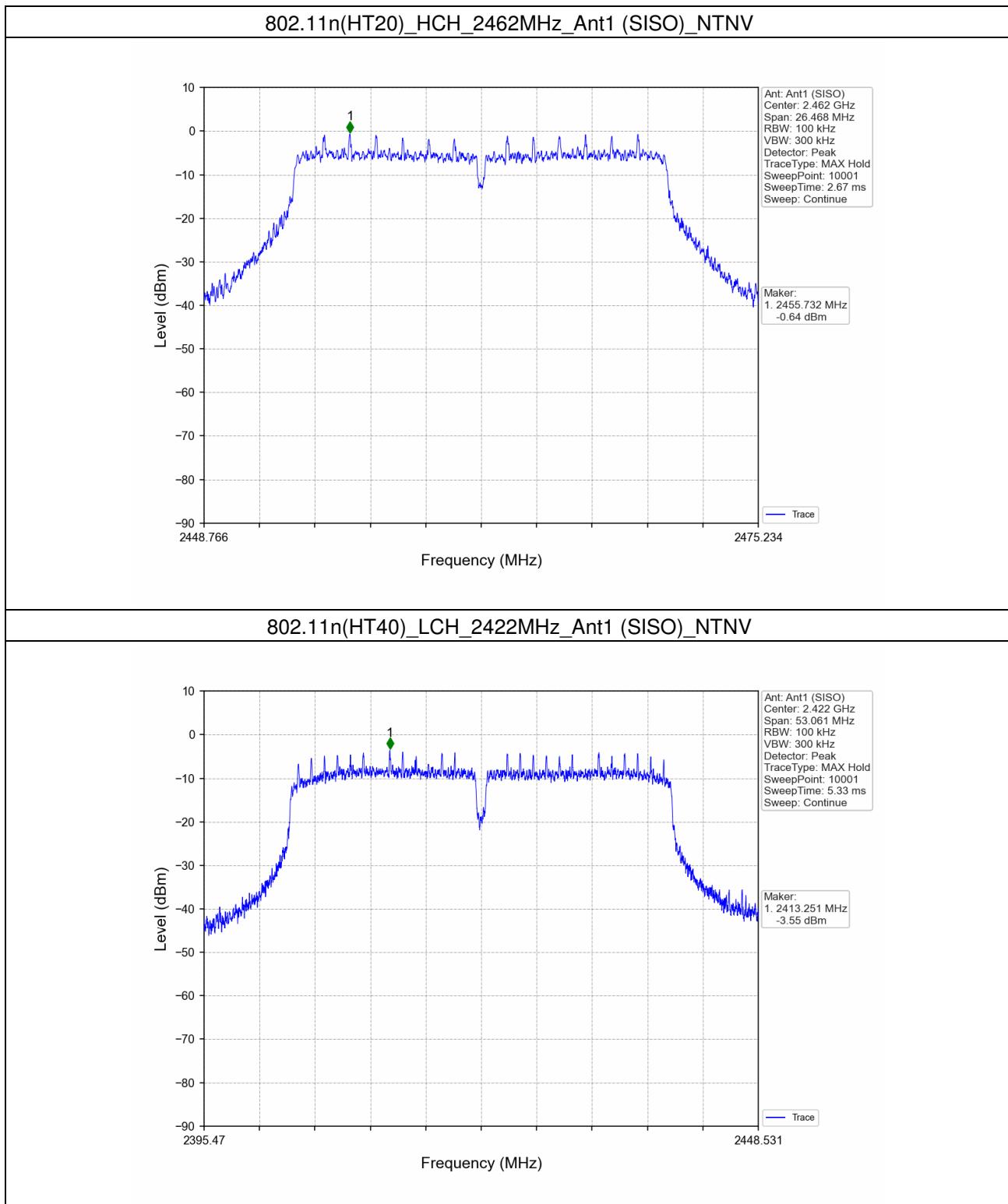


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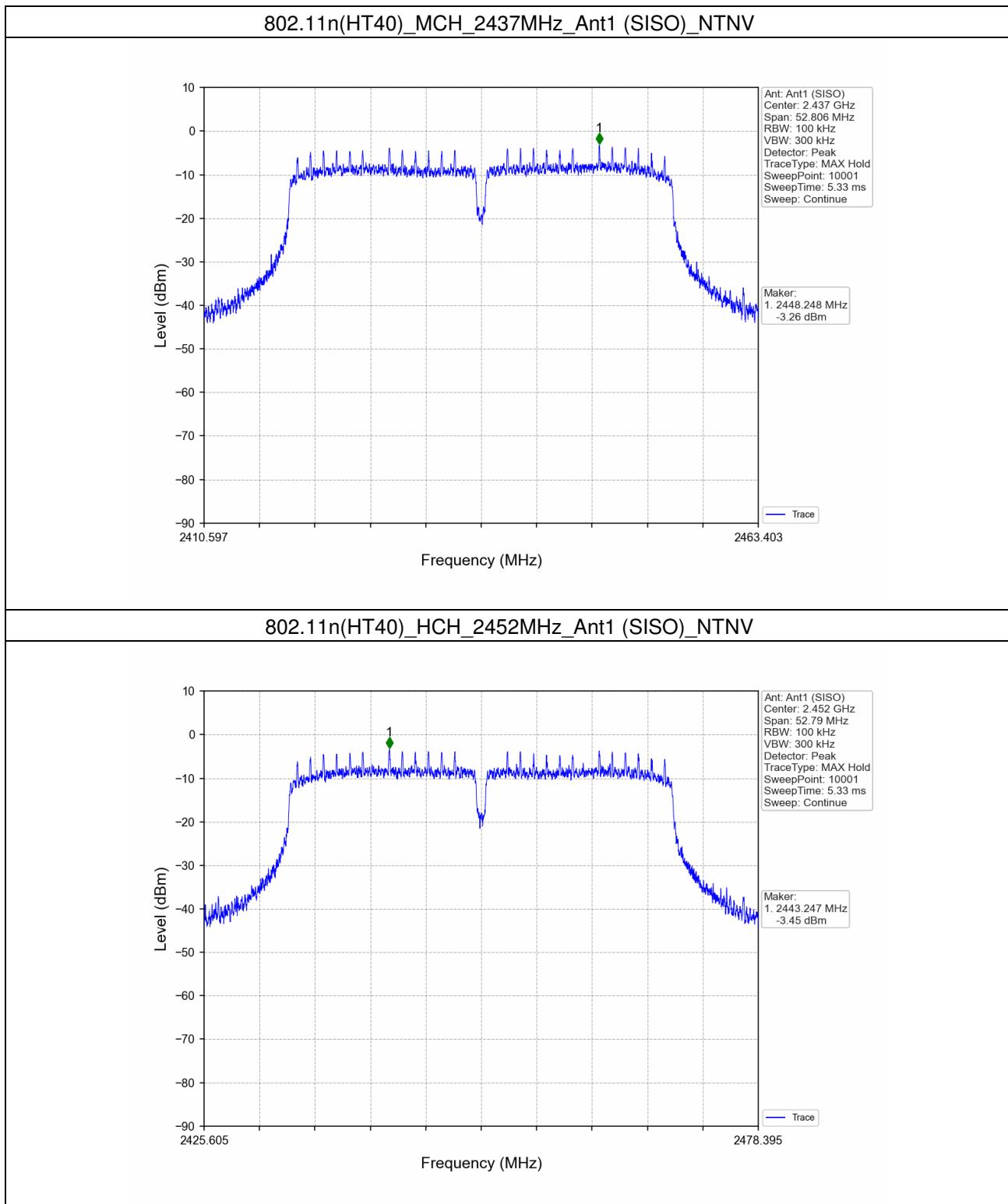


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5.2 CSE**5.2.1 Test Result**

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	3.31	-26.69	Pass
		2437	1	3.31	-26.69	Pass
		2462	1	3.31	-26.69	Pass
802.11g	SISO	2412	1	-0.71	-30.71	Pass
		2437	1	-0.71	-30.71	Pass
		2462	1	-0.71	-30.71	Pass
802.11n (HT20)	SISO	2412	1	-0.64	-30.64	Pass
		2437	1	-0.64	-30.64	Pass
		2462	1	-0.64	-30.64	Pass
802.11n (HT40)	SISO	2422	1	-3.26	-33.26	Pass
		2437	1	-3.26	-33.26	Pass
		2452	1	-3.26	-33.26	Pass

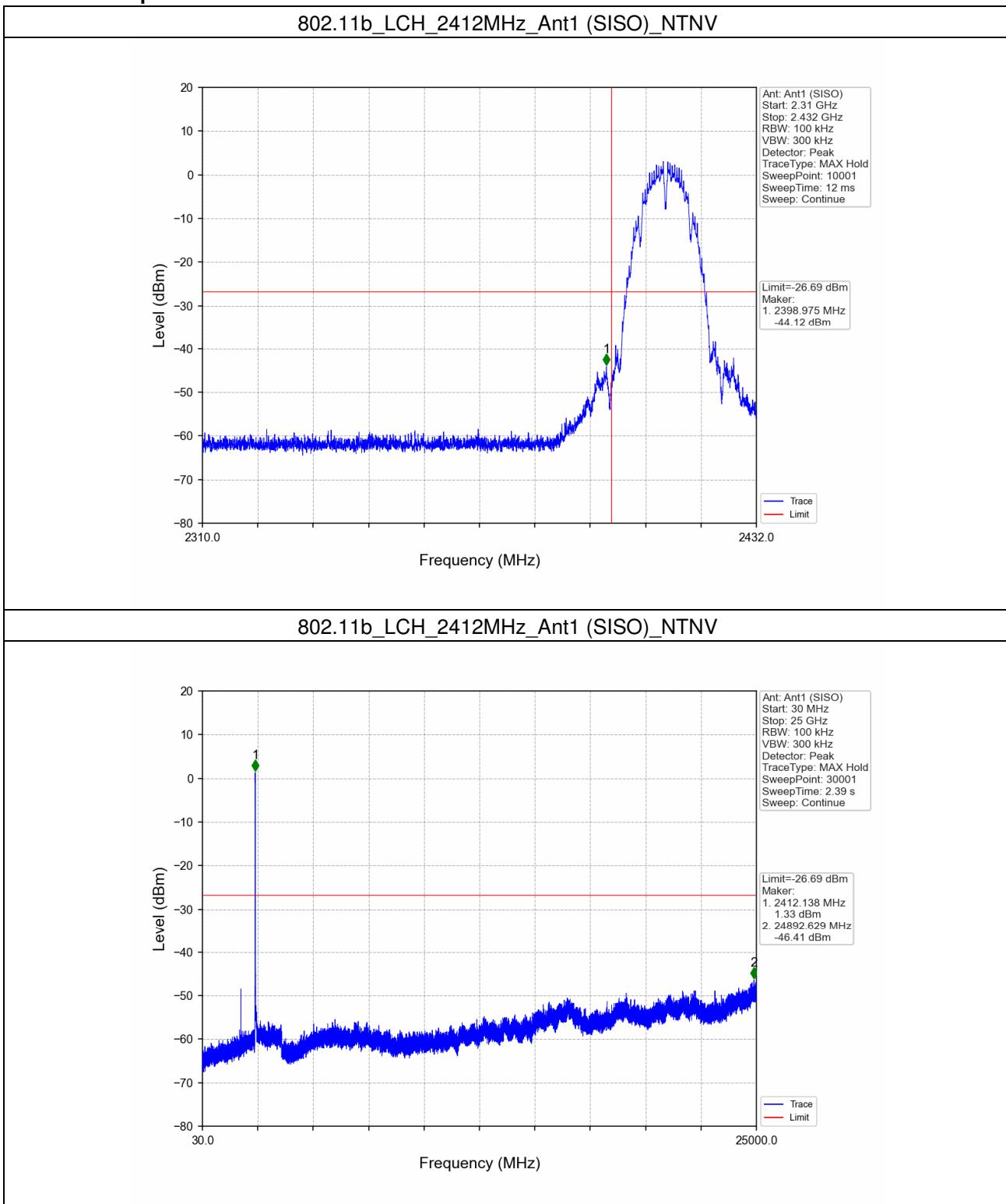
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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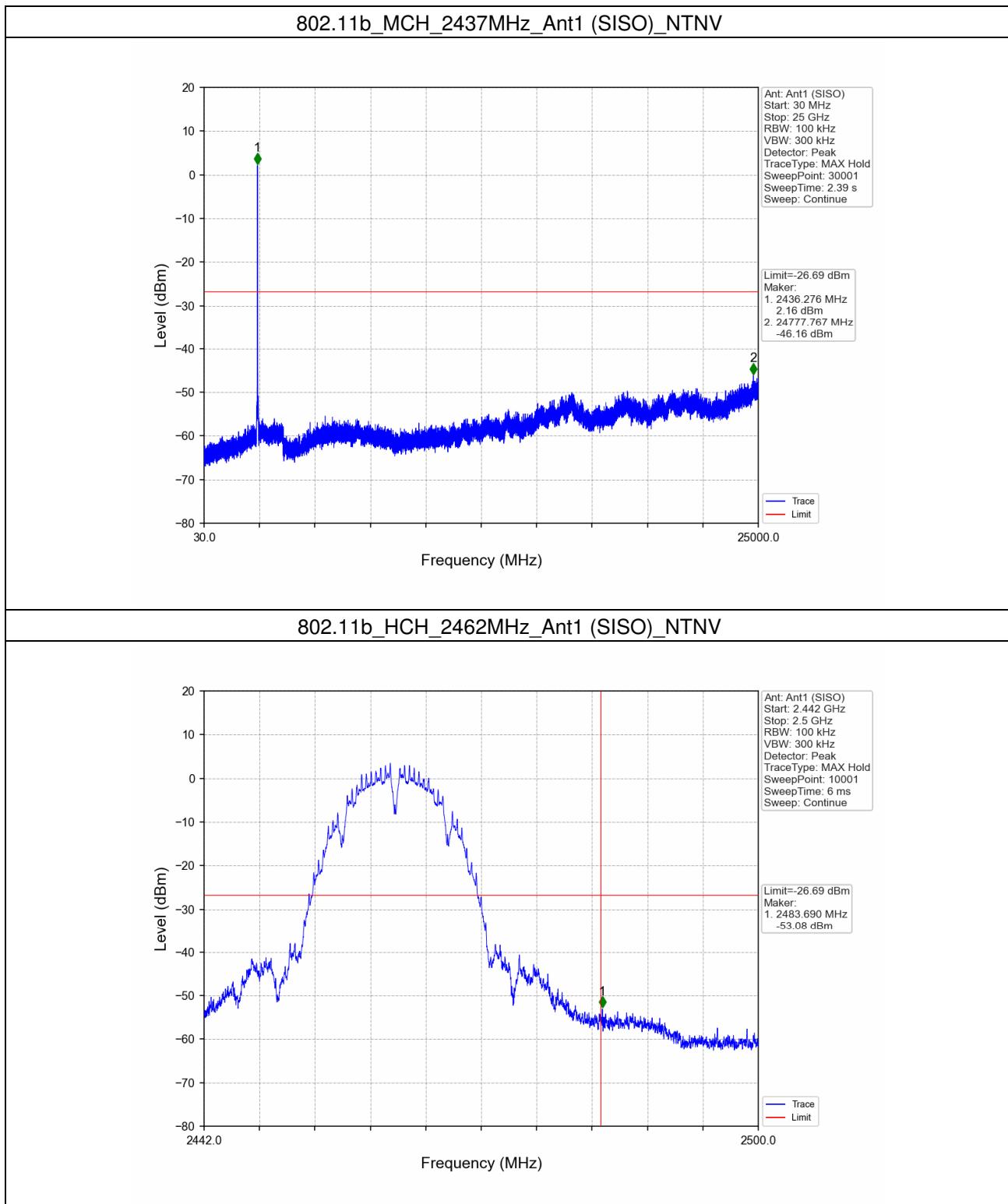
5.2.2 Test Graph

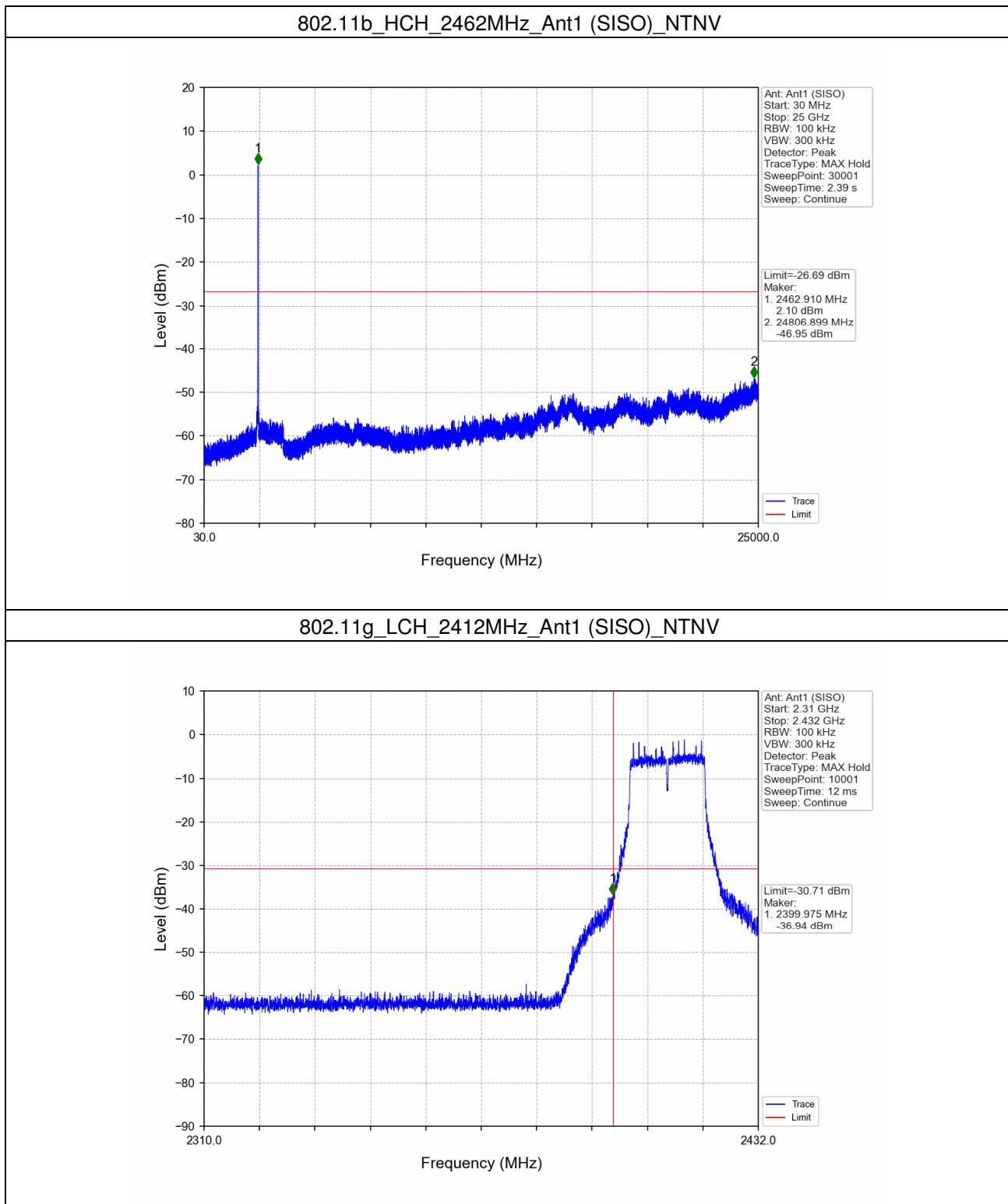
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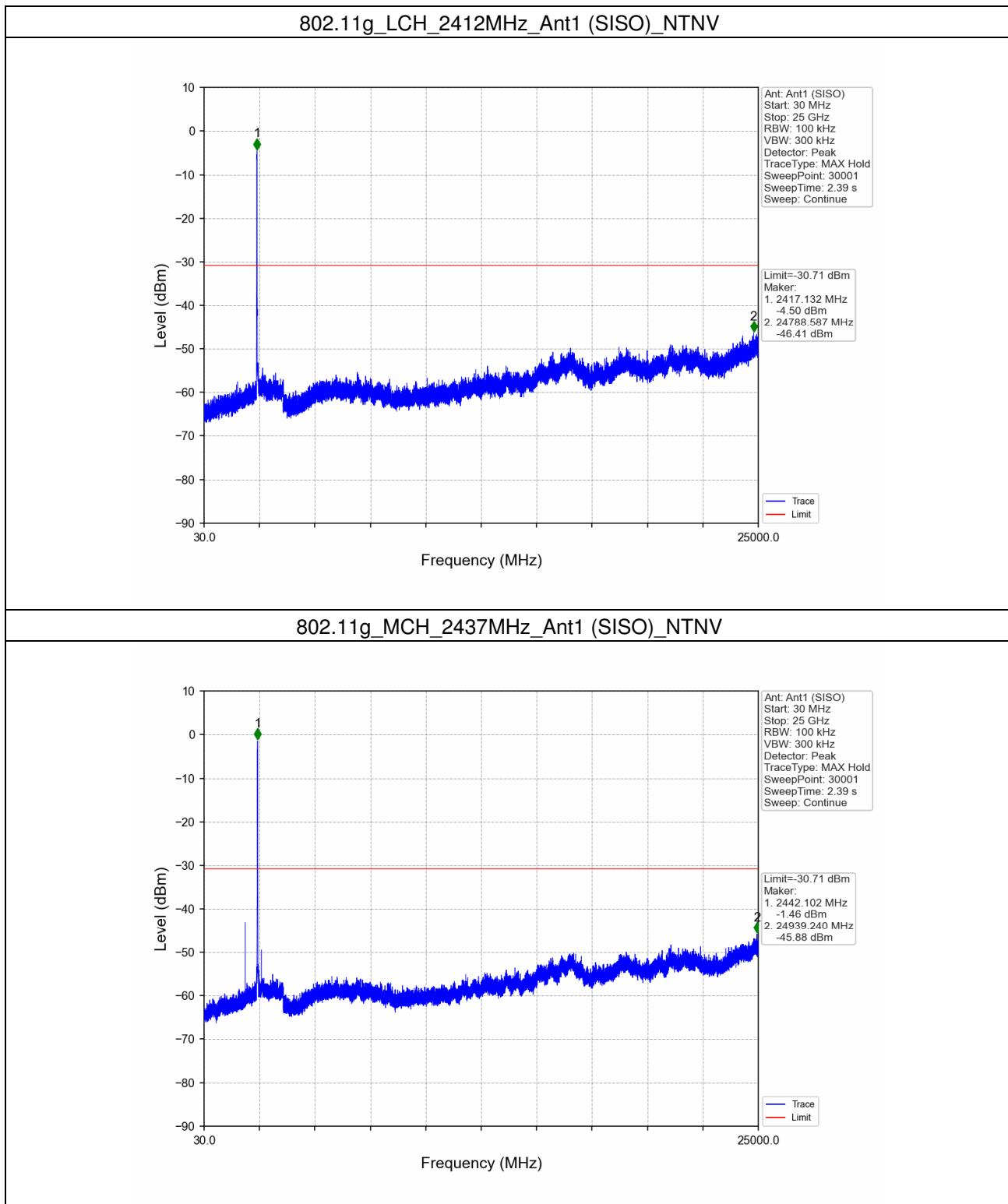


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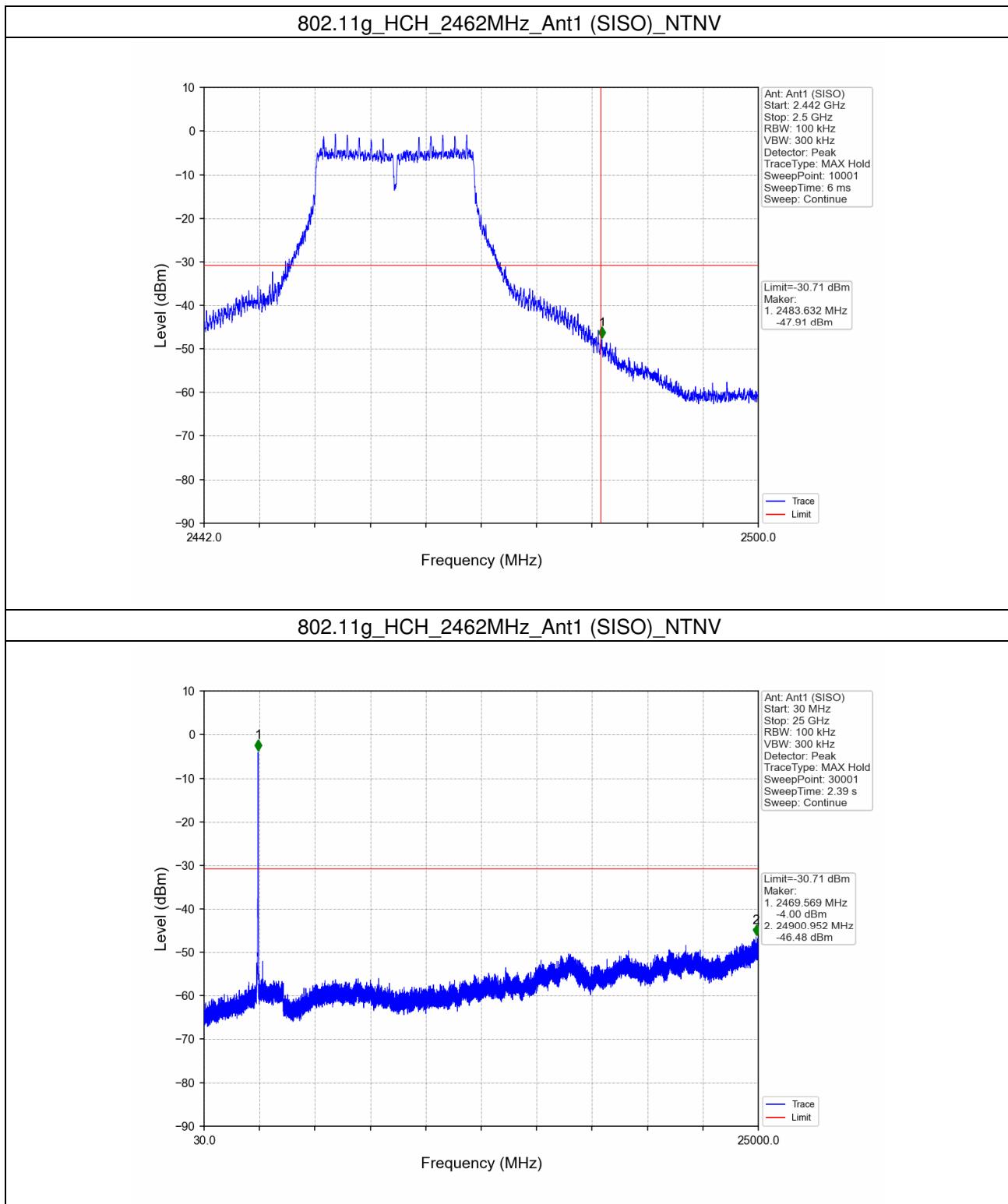


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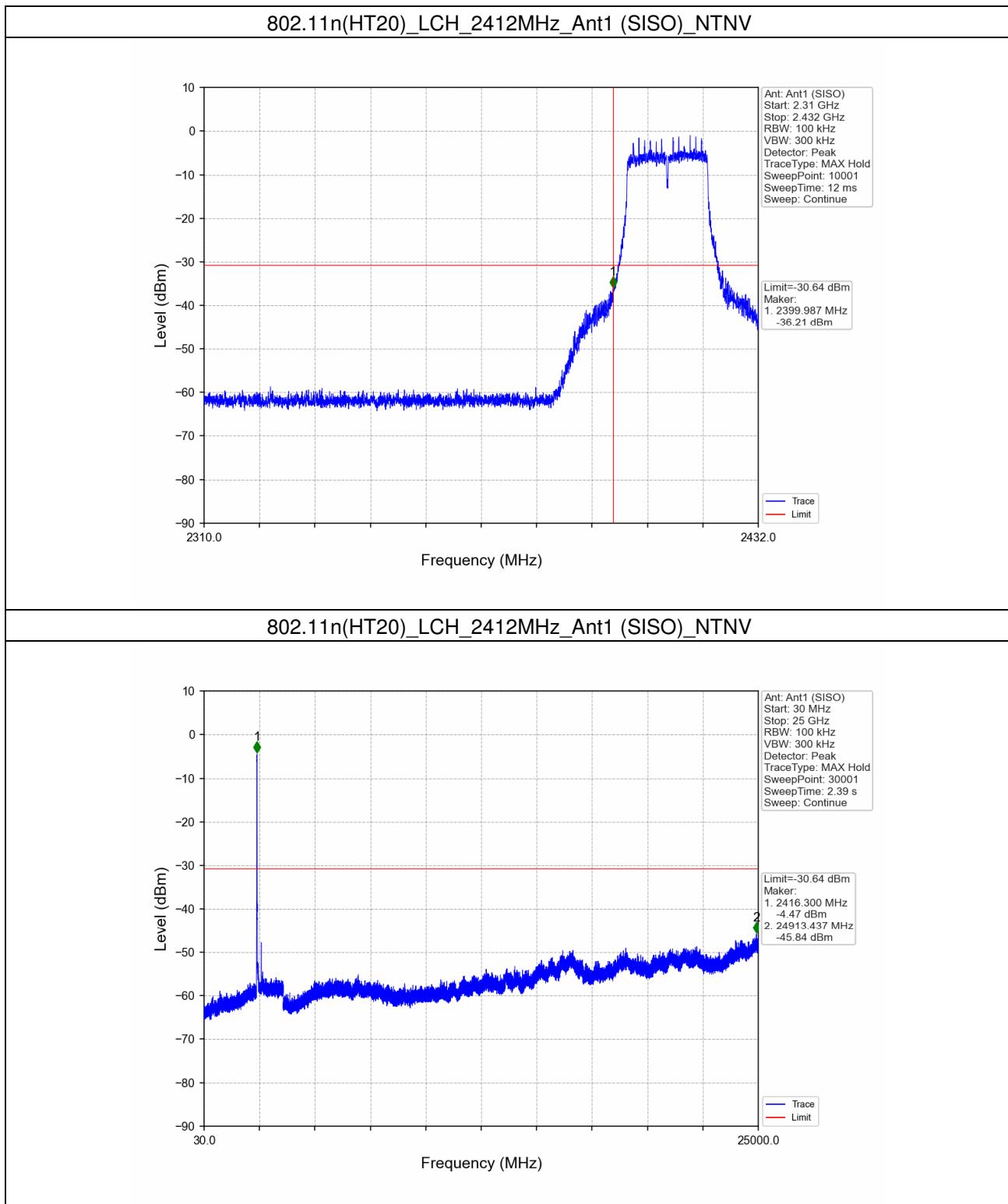


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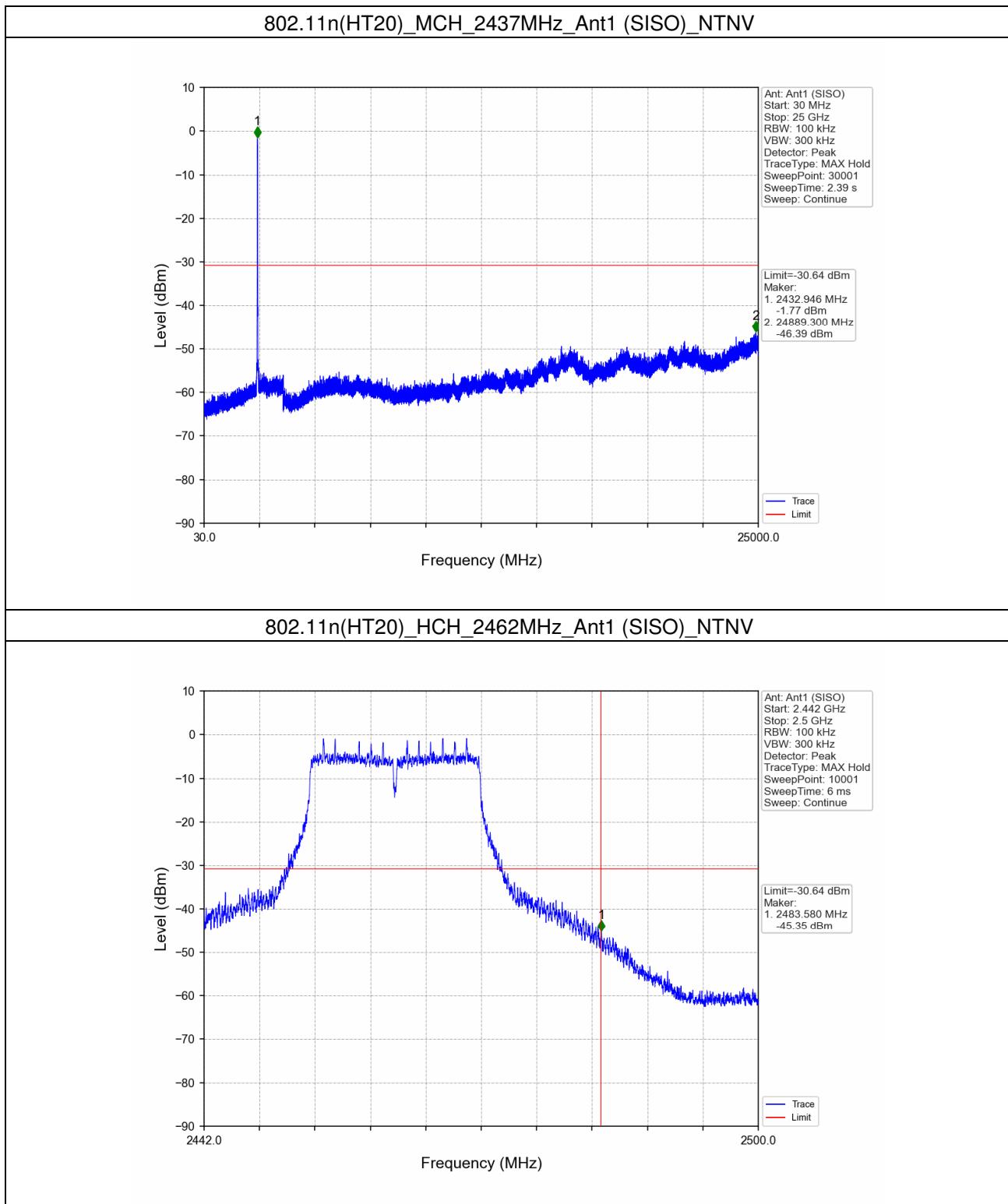


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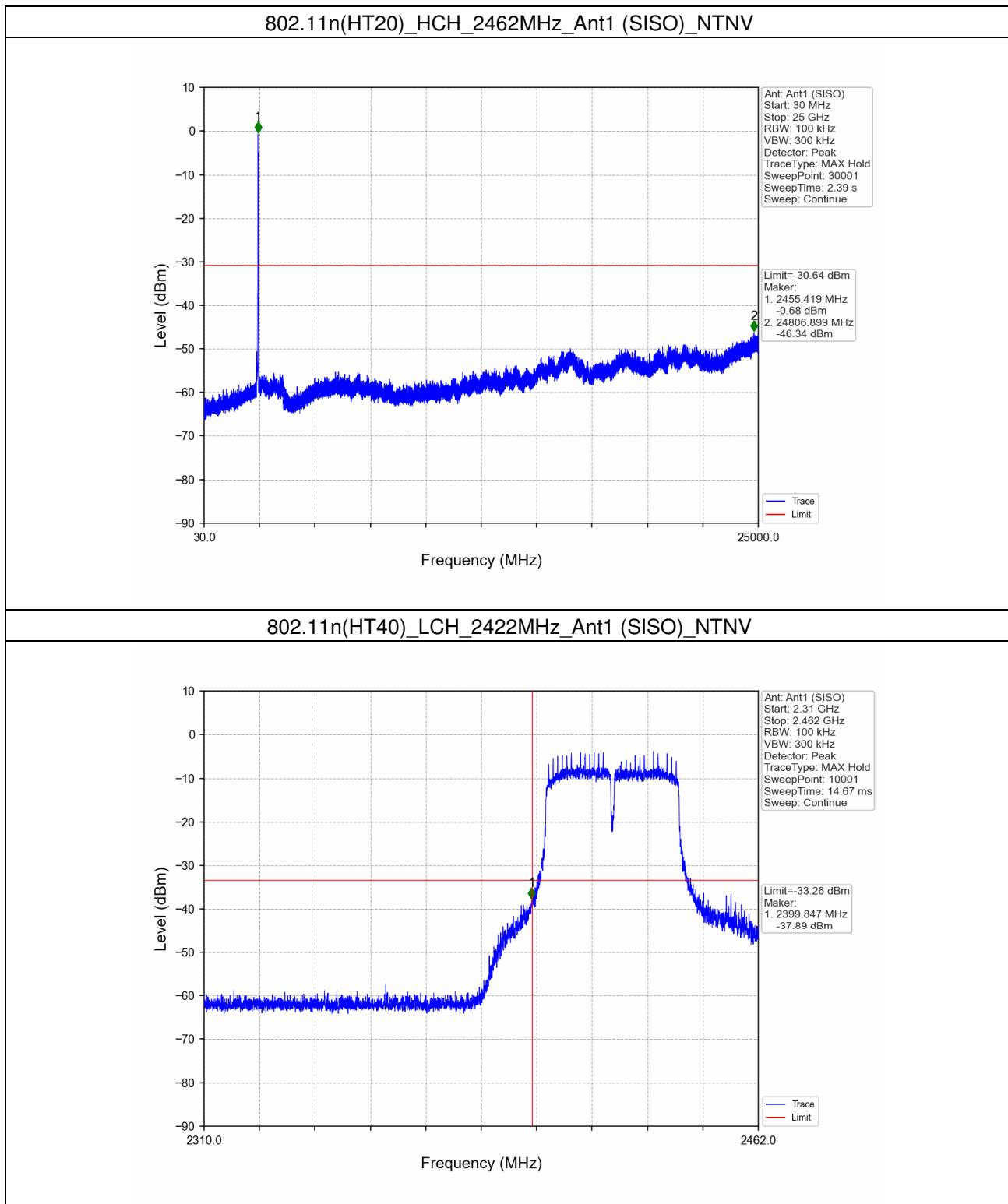


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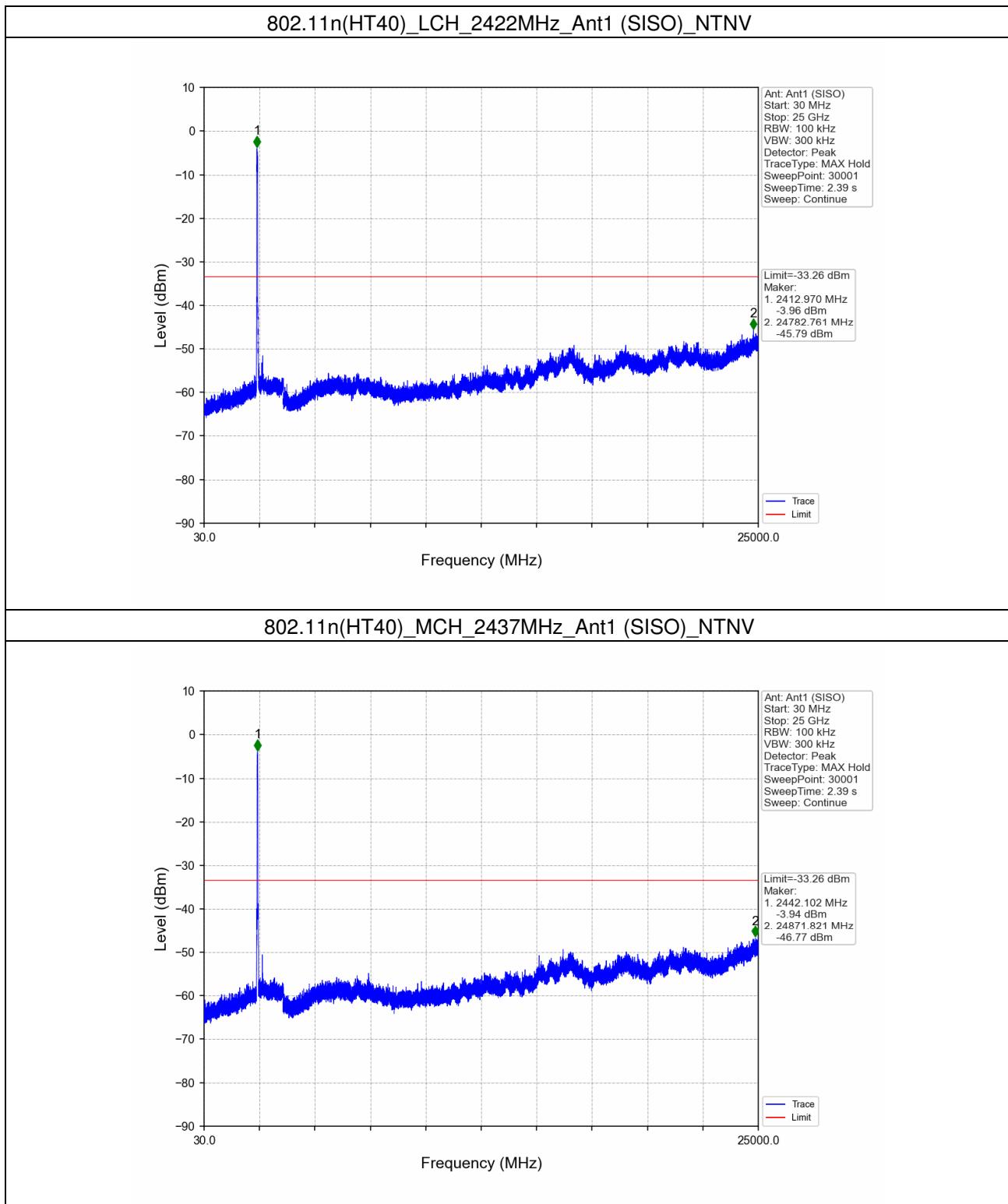


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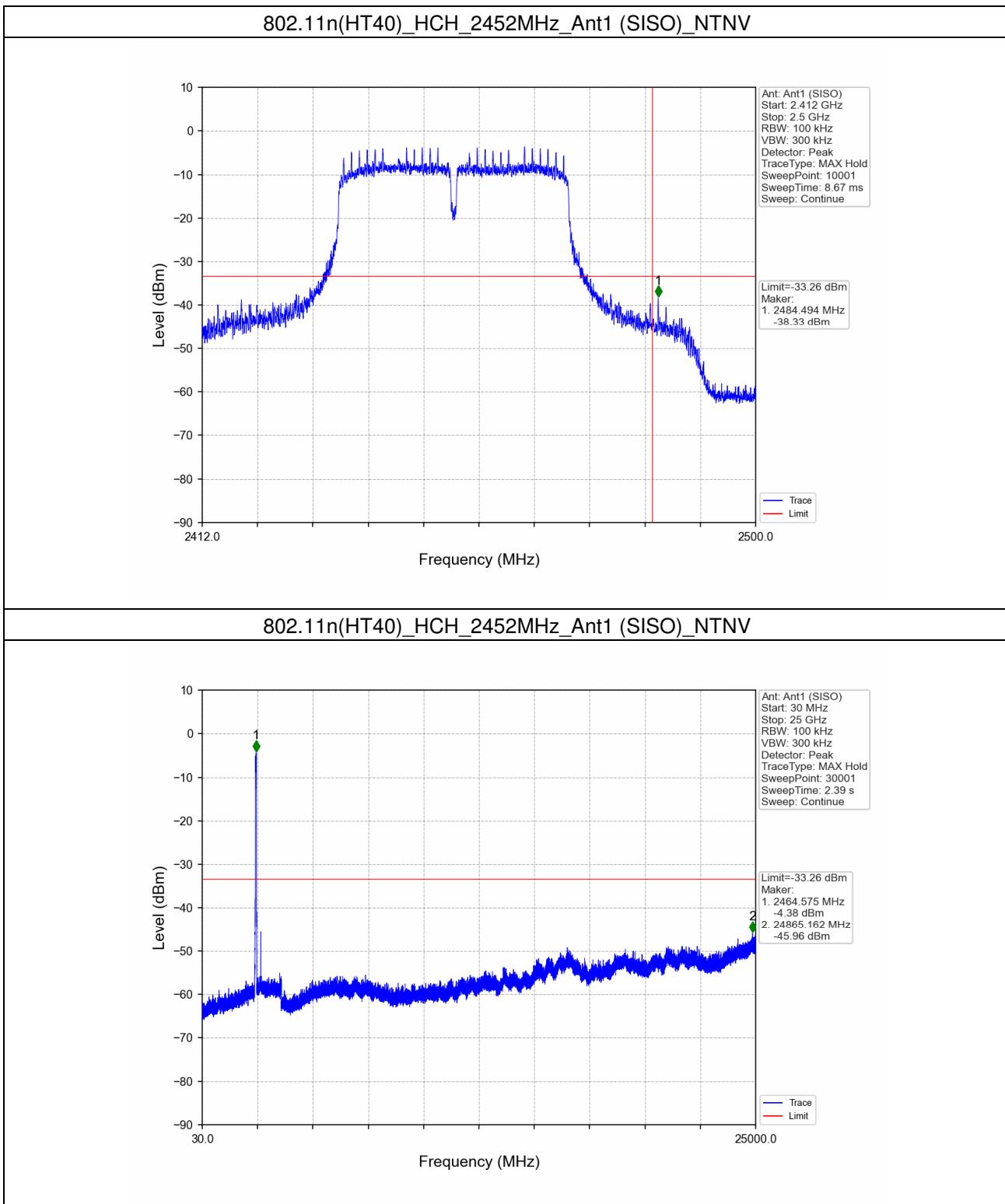


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