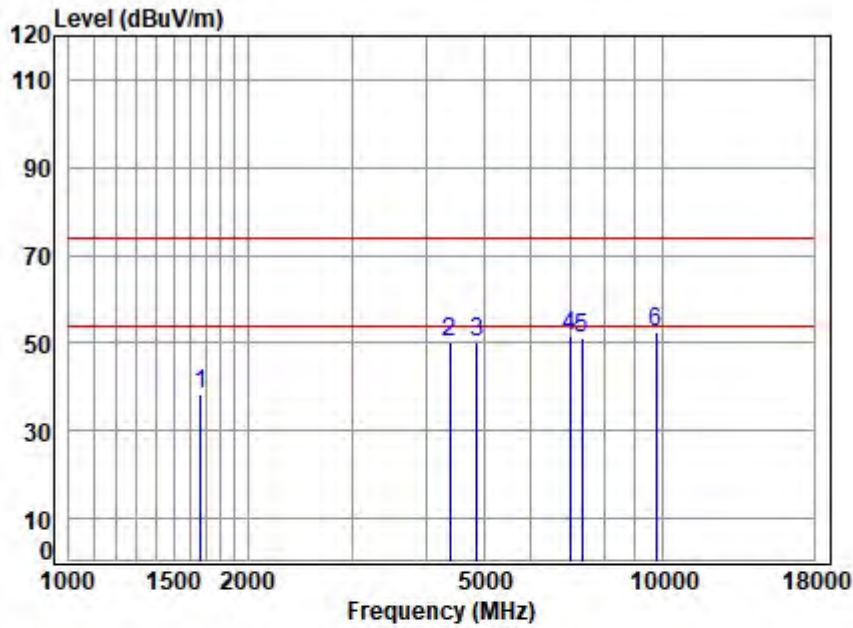


Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



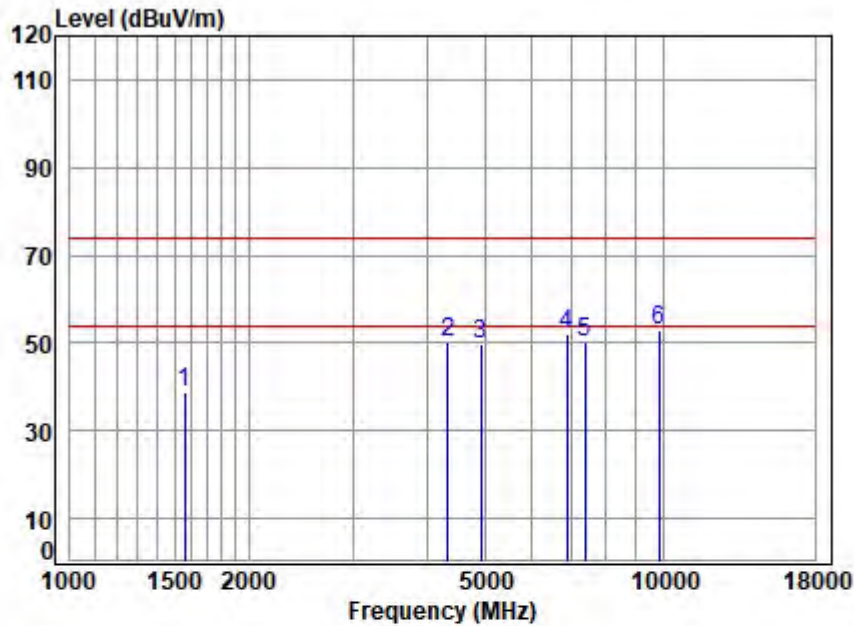
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04130AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4.29	26.26	38.41	46.39	38.53	74.00	-35.47	peak
2	7.05	34.74	35.80	44.31	50.30	74.00	-23.70	peak
3	7.36	34.60	35.47	43.59	50.08	74.00	-23.92	peak
4	8.90	35.75	35.55	42.43	51.53	74.00	-22.47	peak
5	9.30	35.70	35.89	41.87	50.98	74.00	-23.02	peak
6 q	12.46	37.40	37.43	40.20	52.63	74.00	-21.37	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



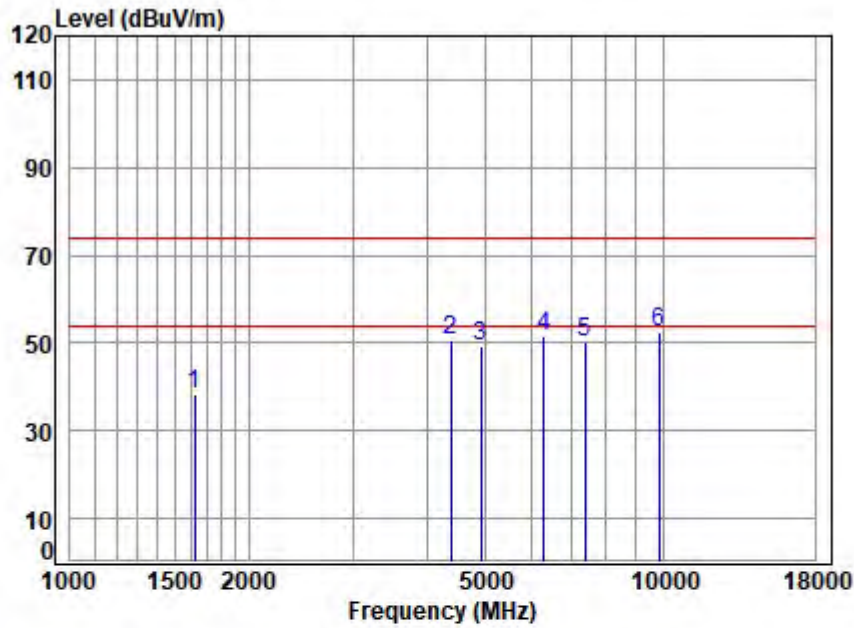
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04130AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11N20

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4.15	26.96	38.40	46.17	38.88	74.00	-35.12	peak
2	7.02	34.34	35.84	44.68	50.20	74.00	-23.80	peak
3	7.39	34.65	35.44	42.93	49.53	74.00	-24.47	peak
4	8.83	35.55	35.49	43.00	51.89	74.00	-22.11	peak
5	9.39	35.77	35.97	41.09	50.28	74.00	-23.72	peak
6 q	12.53	37.20	37.40	40.38	52.71	74.00	-21.29	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 04130AT
 Mode : 2462 TX RSE
 : 2.4G WIFI 11N20

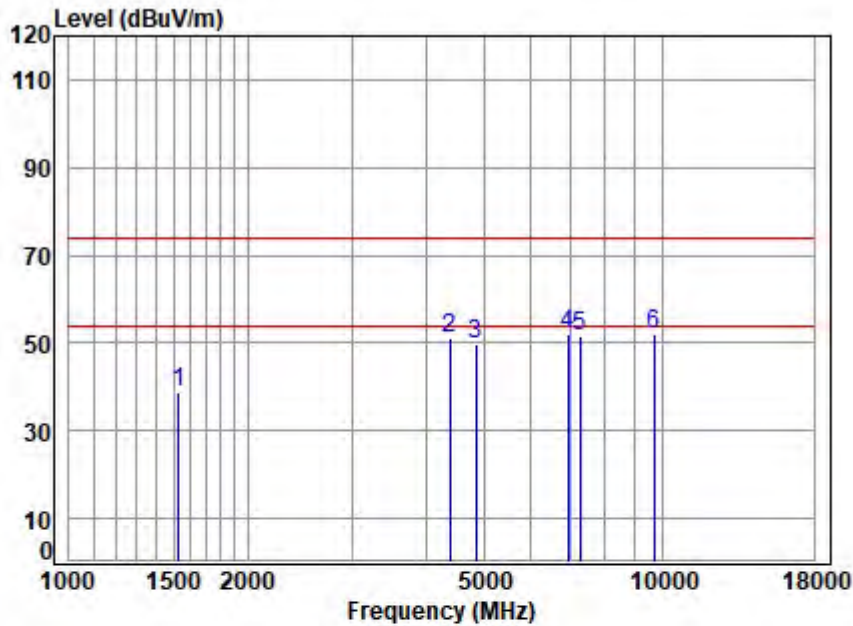
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1625.121	4.23	26.55	38.41	45.75	38.12	74.00	-35.88 peak
2	4392.376	7.05	34.74	35.80	44.44	50.43	74.00	-23.57 peak
3	4924.000	7.39	34.65	35.44	42.54	49.14	74.00	-24.86 peak
4	6285.695	8.40	34.97	35.10	43.26	51.53	74.00	-22.47 peak
5	7386.000	9.39	35.77	35.97	41.11	50.30	74.00	-23.70 peak
6 q	9848.000	12.53	37.20	37.40	40.14	52.47	74.00	-21.53 peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



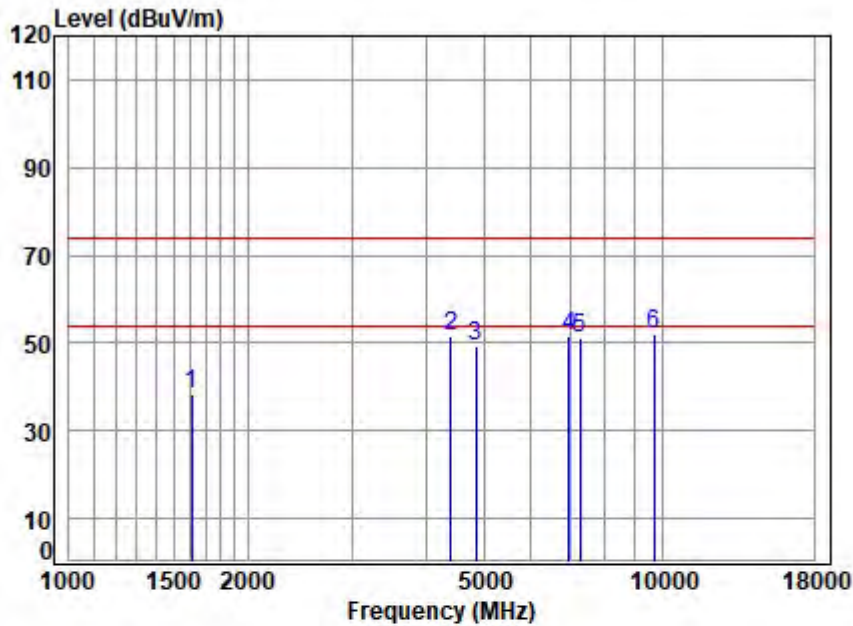
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04130AT
 Mode : 2422 TX RSE
 : 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4.10	26.92	38.39	46.09	38.72	74.00	-35.28	peak
2	7.05	34.74	35.80	45.34	51.33	74.00	-22.67	peak
3	7.34	34.48	35.49	43.24	49.57	74.00	-24.43	peak
4	8.87	35.74	35.53	42.76	51.84	74.00	-22.16	peak
5	9.25	35.70	35.85	42.49	51.59	74.00	-22.41	peak
6 q	12.42	37.50	37.44	39.48	51.96	74.00	-22.04	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 04130AT
 Mode : 2422 TX RSE
 : 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611.091	4.22	26.69	38.40	45.83	38.34	74.00	-35.66 peak
2	4405.090	7.06	34.74	35.79	45.61	51.62	74.00	-22.38 peak
3	4844.000	7.34	34.48	35.49	43.15	49.48	74.00	-24.52 peak
4	6954.852	8.89	35.79	35.54	42.50	51.64	74.00	-22.36 peak
5	7266.000	9.25	35.70	35.85	41.96	51.06	74.00	-22.94 peak
6 q	9688.000	12.42	37.50	37.44	39.53	52.01	74.00	-21.99 peak

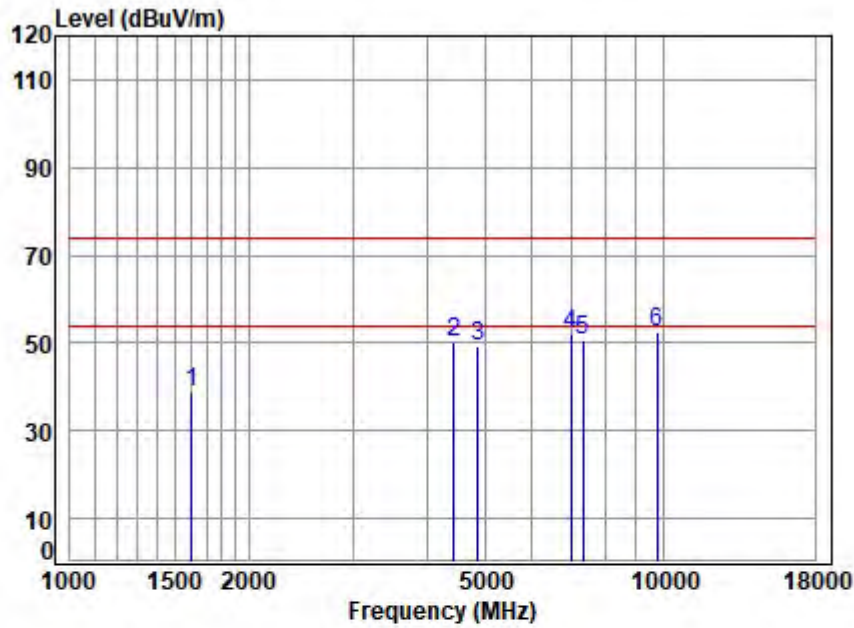


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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



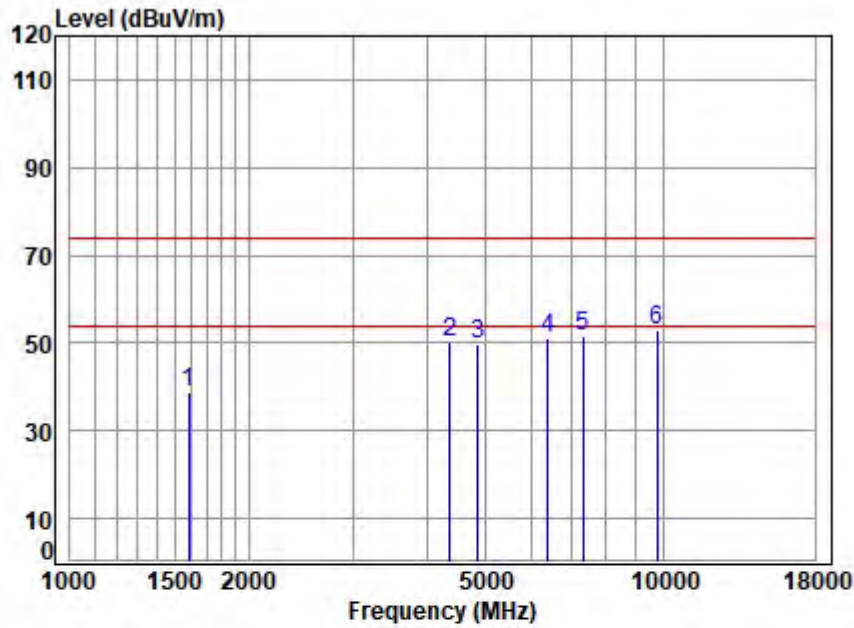
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04130AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4.21	26.74	38.40	46.27	38.82	74.00	-35.18	peak
2	7.08	34.43	35.77	44.61	50.35	74.00	-23.65	peak
3	7.36	34.60	35.47	42.74	49.23	74.00	-24.77	peak
4	8.92	35.71	35.57	42.88	51.94	74.00	-22.06	peak
5	9.30	35.70	35.89	41.47	50.58	74.00	-23.42	peak
6 q	12.46	37.40	37.43	40.16	52.59	74.00	-21.41	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



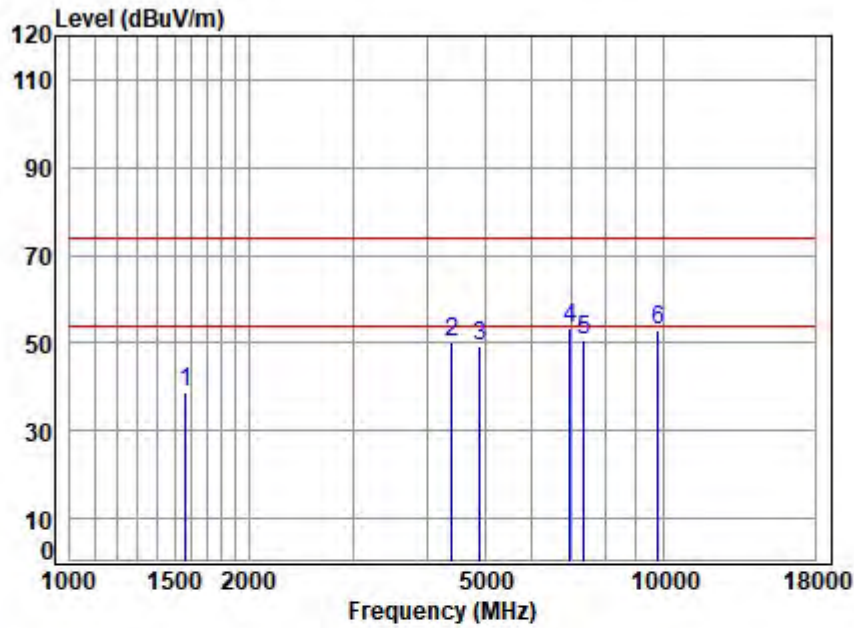
Site : chamber
 Condition: 3m VERTICAL
 Job No : 04130AT
 Mode : 2437 TX RSE
 : 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4.18	26.87	38.40	46.00	38.65	74.00	-35.35	peak
2	7.04	34.54	35.82	44.54	50.30	74.00	-23.70	peak
3	7.36	34.60	35.47	43.07	49.56	74.00	-24.44	peak
4	8.48	35.17	35.18	42.71	51.18	74.00	-22.82	peak
5	9.30	35.70	35.89	42.40	51.51	74.00	-22.49	peak
6 q	12.46	37.40	37.43	40.50	52.93	74.00	-21.07	peak



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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 04130AT
 Mode : 2452 TX RSE
 : 2.4G WIFI 11N40

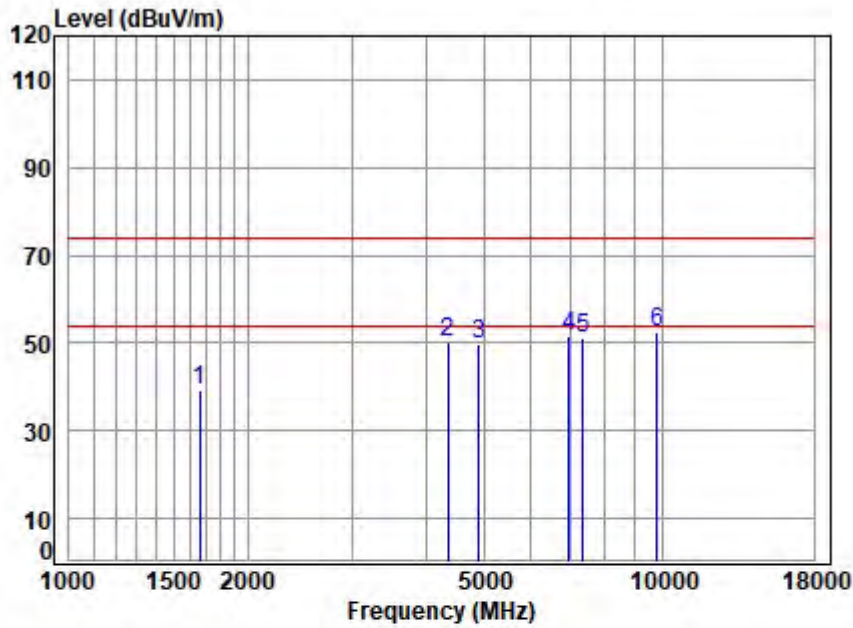
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	4.16	26.92	38.40	45.92	38.60	74.00	-35.40	peak
2	4405.090	7.06	34.74	35.79	44.13	50.14	74.00	-23.86	peak
3	4904.000	7.37	34.69	35.45	42.68	49.29	74.00	-24.71	peak
4 q	6954.852	8.89	35.79	35.54	44.04	53.18	74.00	-20.82	peak
5	7356.000	9.36	35.71	35.94	41.32	50.45	74.00	-23.55	peak
6	9808.000	12.50	37.28	37.41	40.50	52.87	74.00	-21.13	peak



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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 04130AT
 Mode : 2452 TX RSE
 : 2.4G WIFI 11N40

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4.28	26.28	38.41	47.28	39.43	74.00	-34.57	peak
2	7.03	34.44	35.83	44.59	50.23	74.00	-23.77	peak
3	7.37	34.69	35.45	43.03	49.64	74.00	-24.36	peak
4	8.89	35.79	35.54	42.50	51.64	74.00	-22.36	peak
5	9.36	35.71	35.94	42.17	51.30	74.00	-22.70	peak
6 q	12.50	37.28	37.41	40.12	52.49	74.00	-21.51	peak



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8 Test Setup Photo

Refer to Setup Photo for SZCR2312004130AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2312004130AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

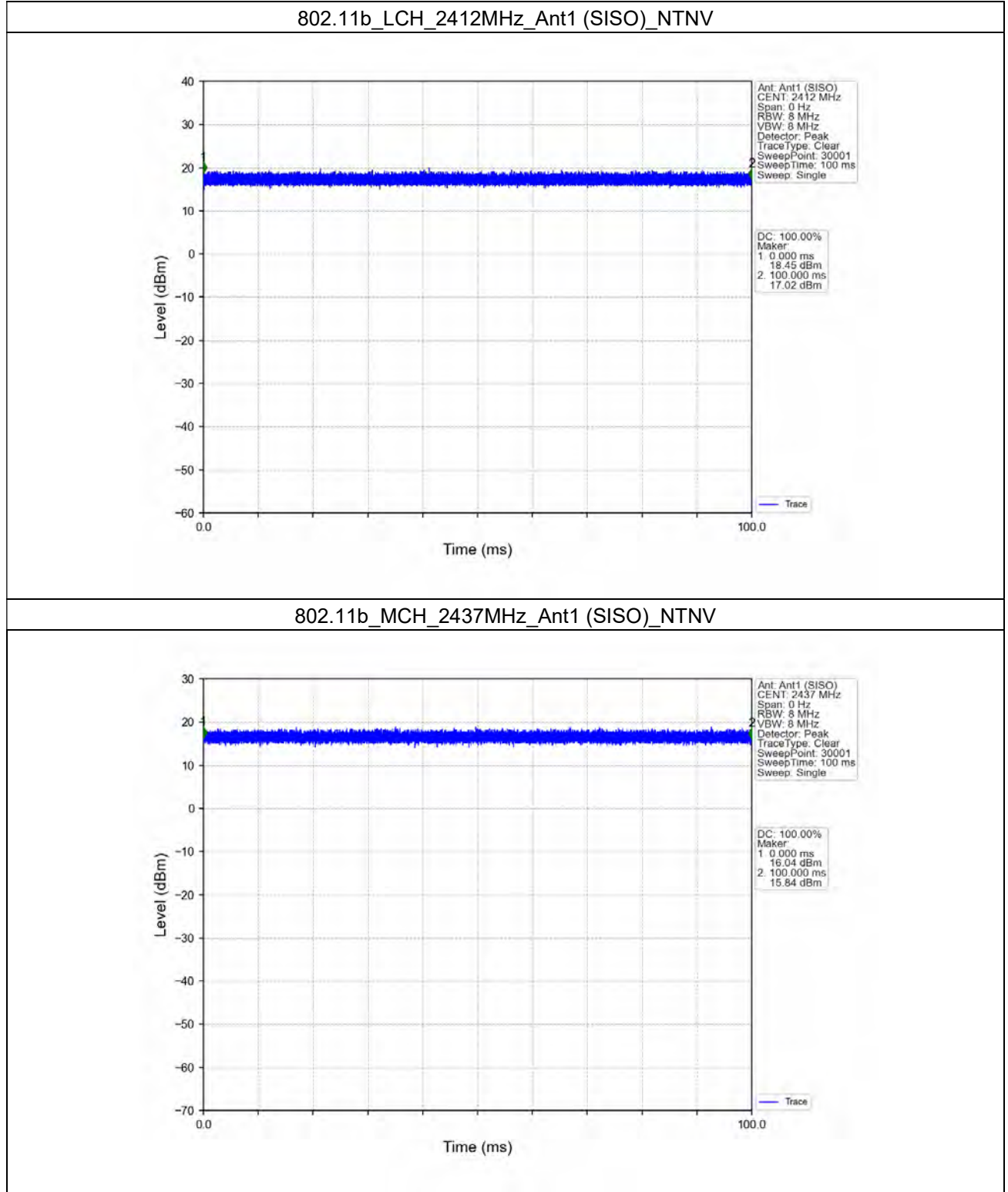
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2462	100.000	100.000	100.00	0.00	0.00
802.11g	SISO	2412	0.245	0.269	91.08	0.41	0.04
		2437	0.245	0.269	91.08	0.41	0.04
		2462	0.244	0.269	90.71	0.42	0.00
802.11n (HT20)	SISO	2412	0.261	0.284	91.90	0.37	0.06
		2437	0.261	0.284	91.90	0.37	0.06
		2462	0.261	0.284	91.90	0.37	0.04
802.11n (HT40)	SISO	2422	0.250	0.277	90.25	0.45	0.07
		2437	0.000	0.029	0.00	0.00	89.40
		2452	0.249	0.277	89.89	0.46	0.07



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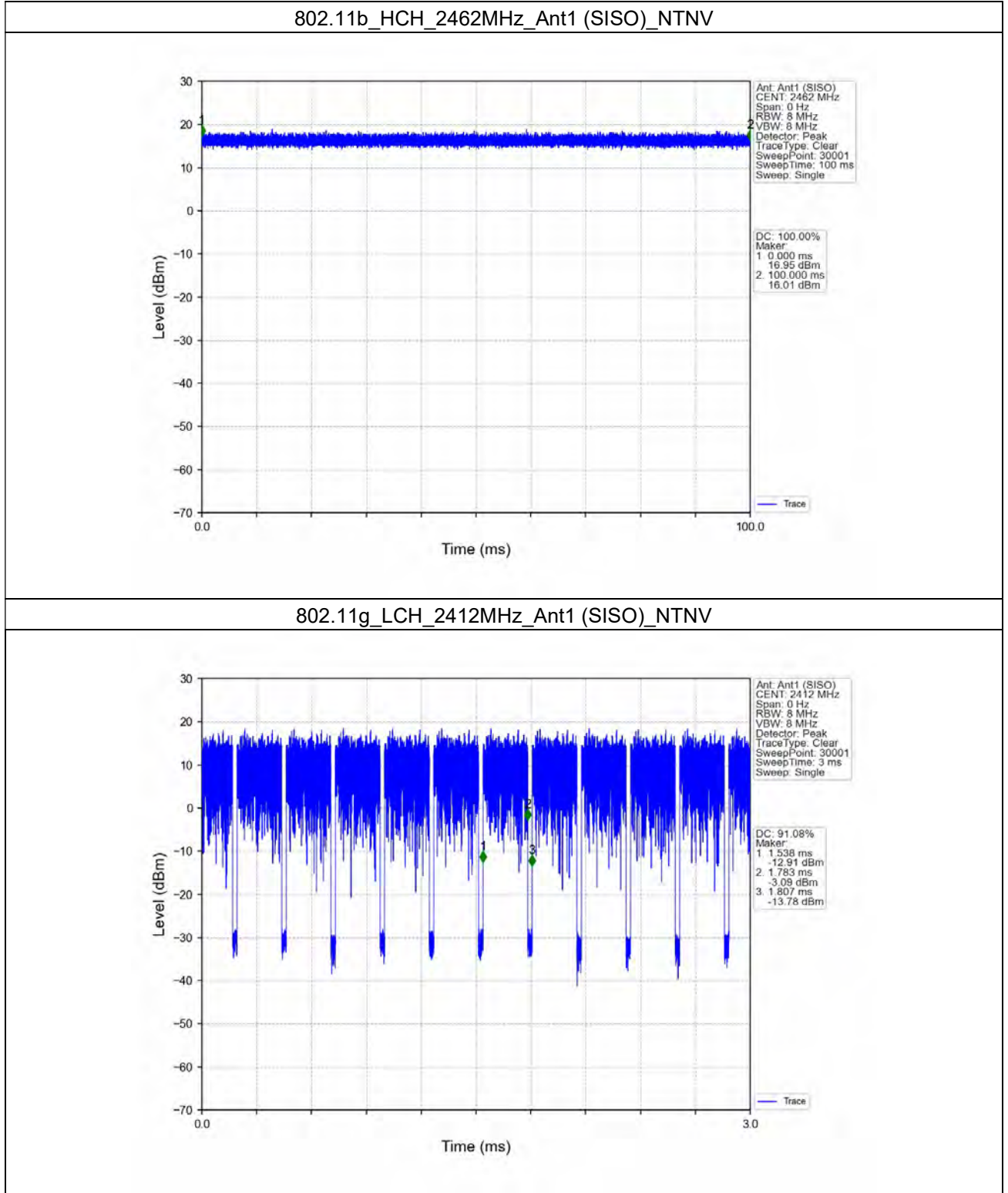
1.1.2 Test Graph



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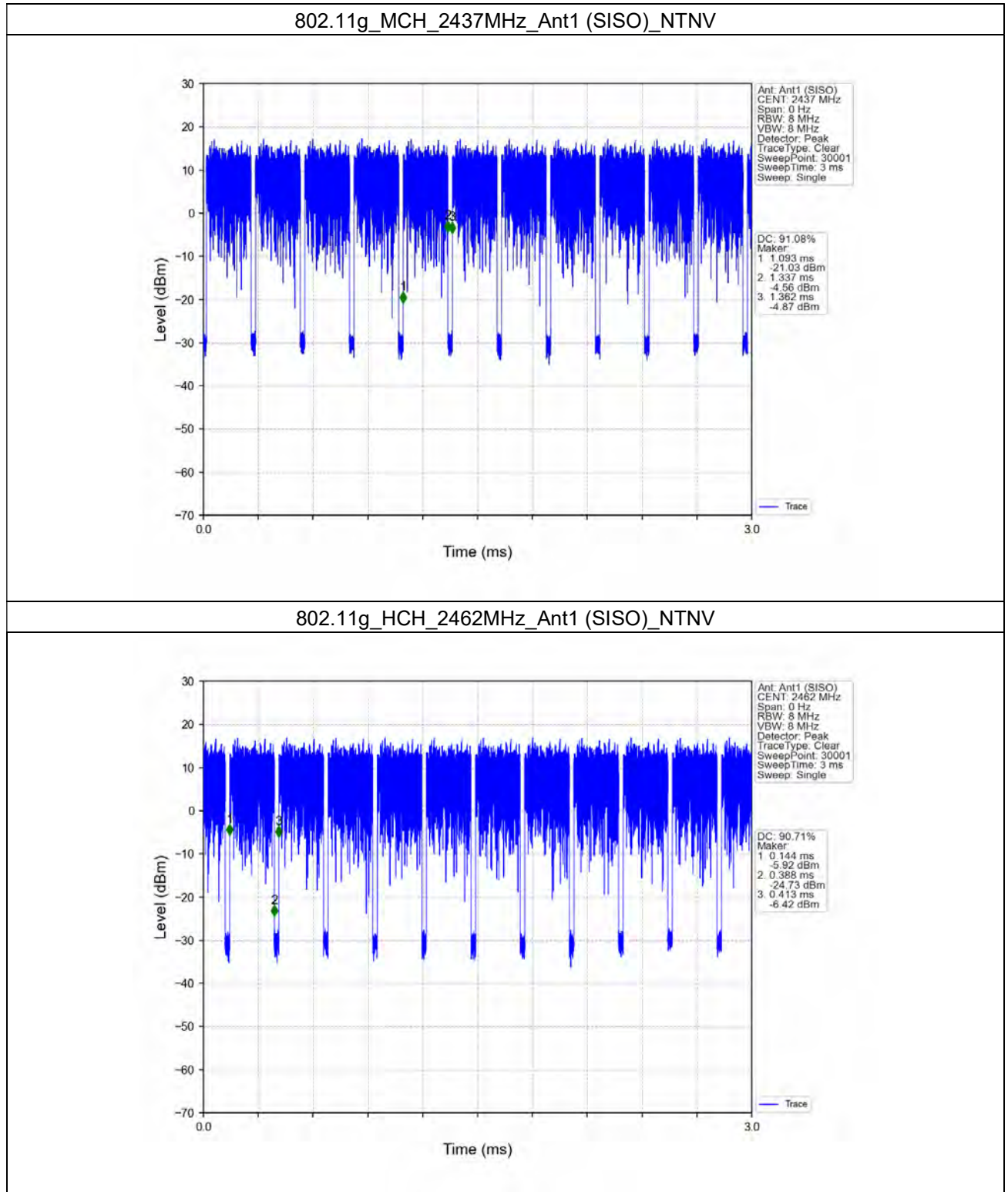
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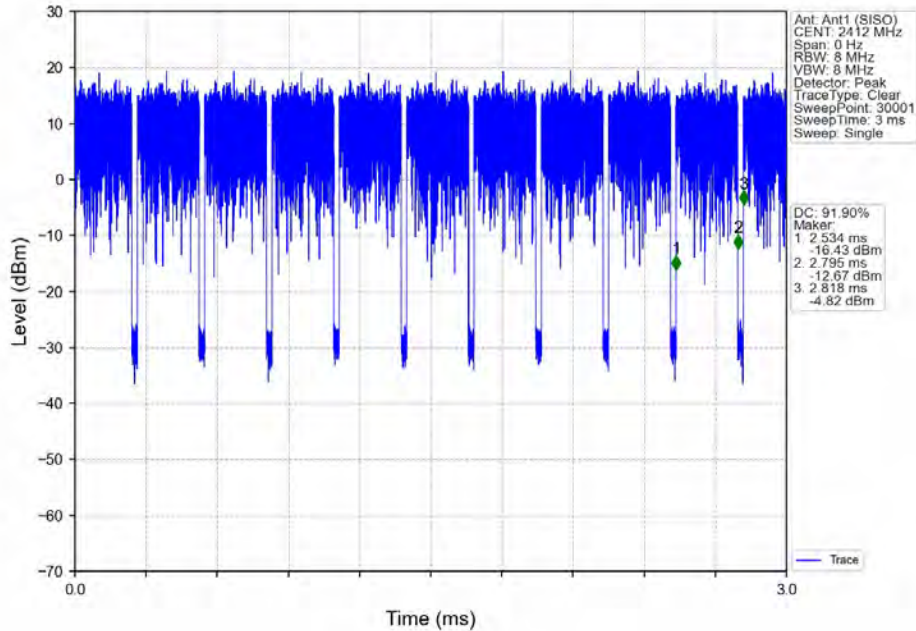


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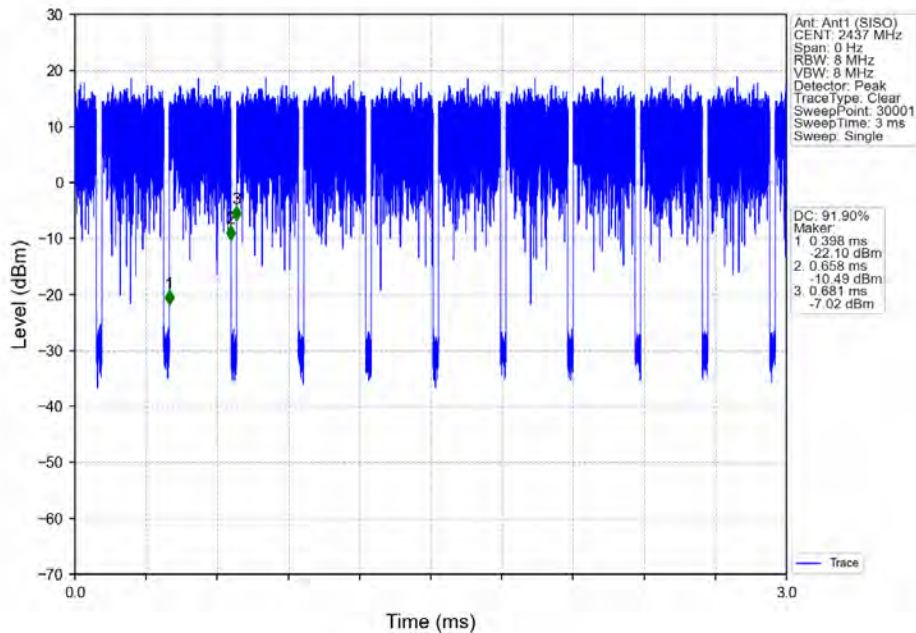
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

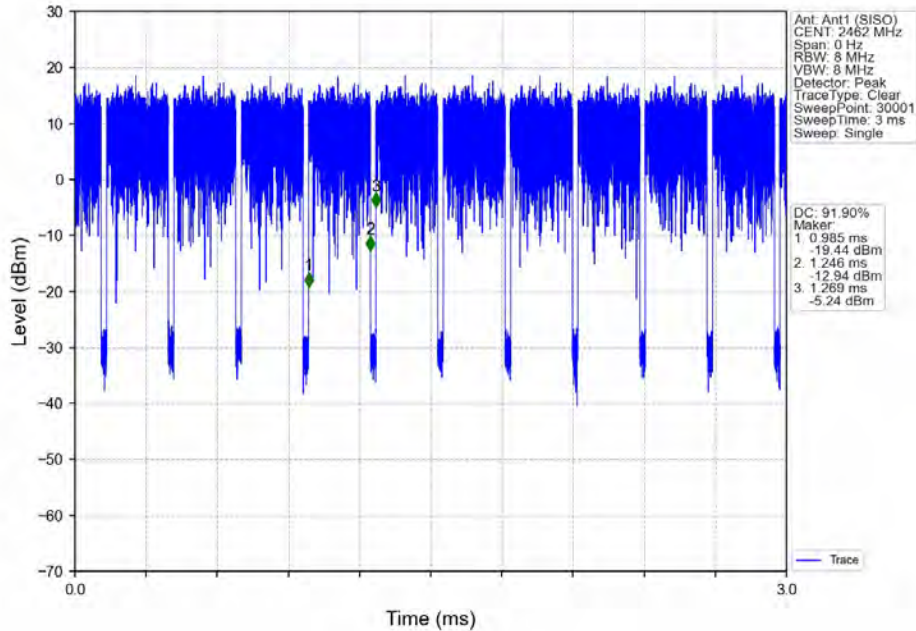


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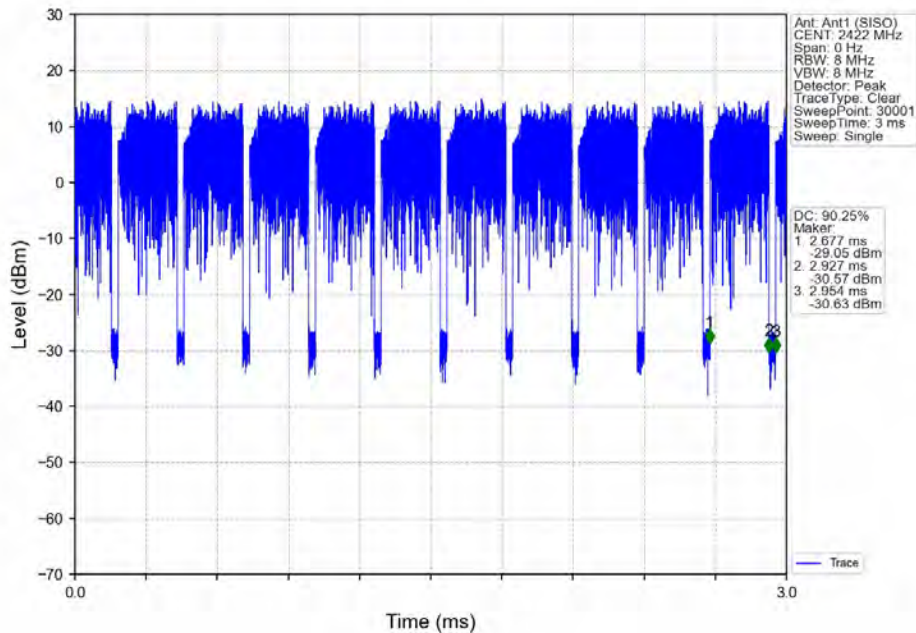
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

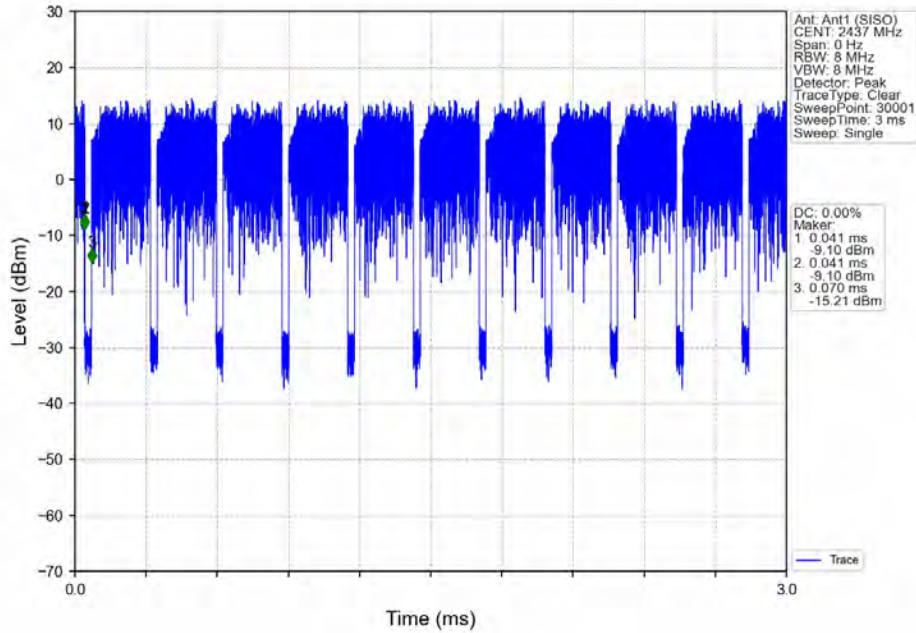


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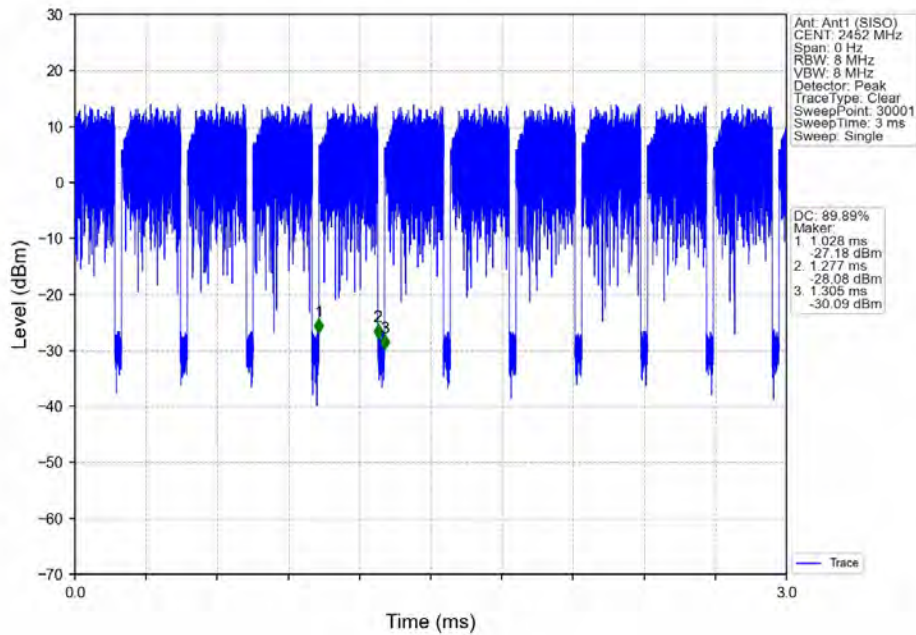
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

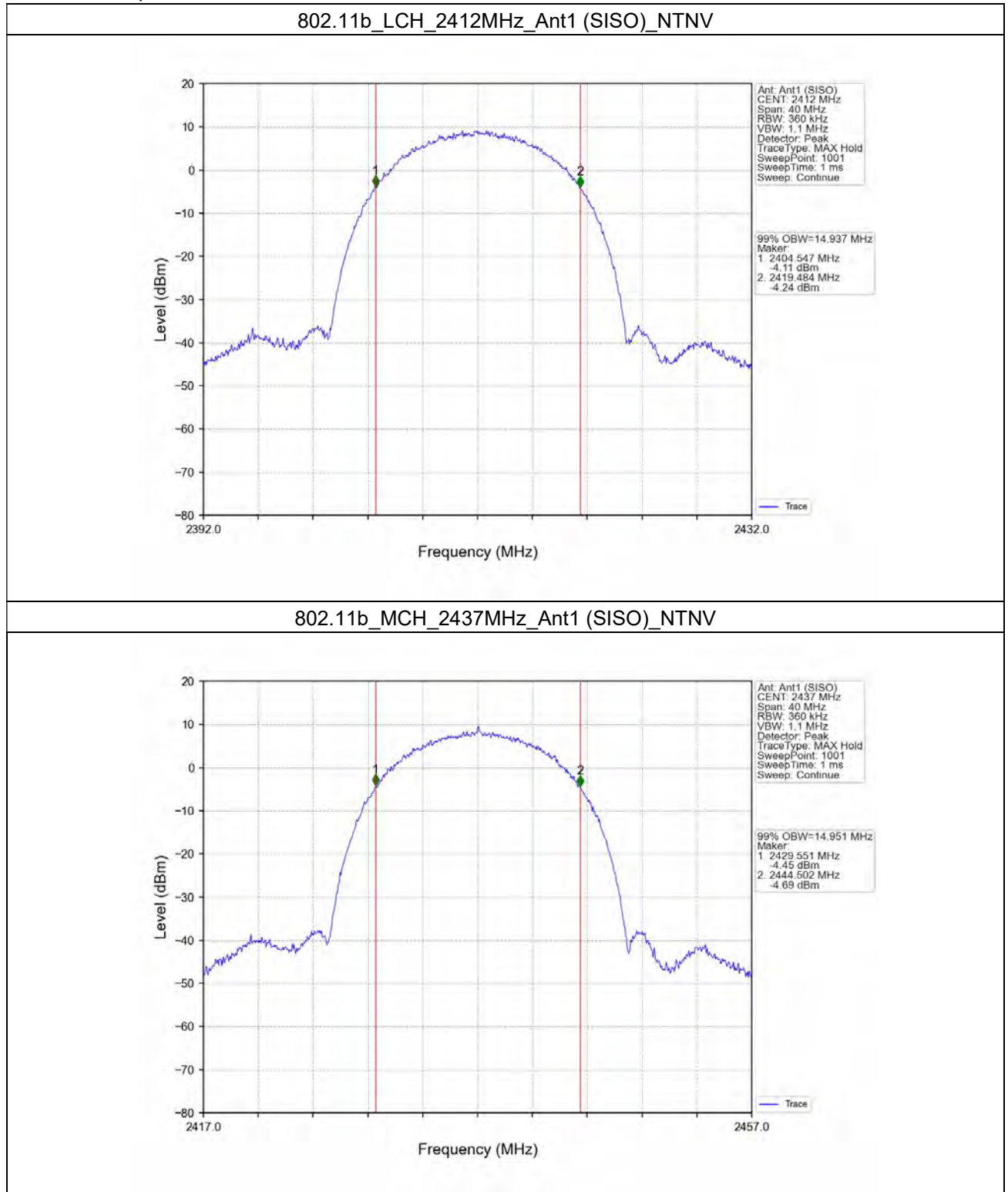
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.937	/	Pass
		2437	1	14.951	/	Pass
		2462	1	14.967	/	Pass
802.11g	SISO	2412	1	16.476	/	Pass
		2437	1	16.476	/	Pass
		2462	1	16.478	/	Pass
802.11n (HT20)	SISO	2412	1	17.891	/	Pass
		2437	1	17.890	/	Pass
		2462	1	17.885	/	Pass
802.11n (HT40)	SISO	2422	1	35.923	/	Pass
		2437	1	35.920	/	Pass
		2452	1	35.925	/	Pass



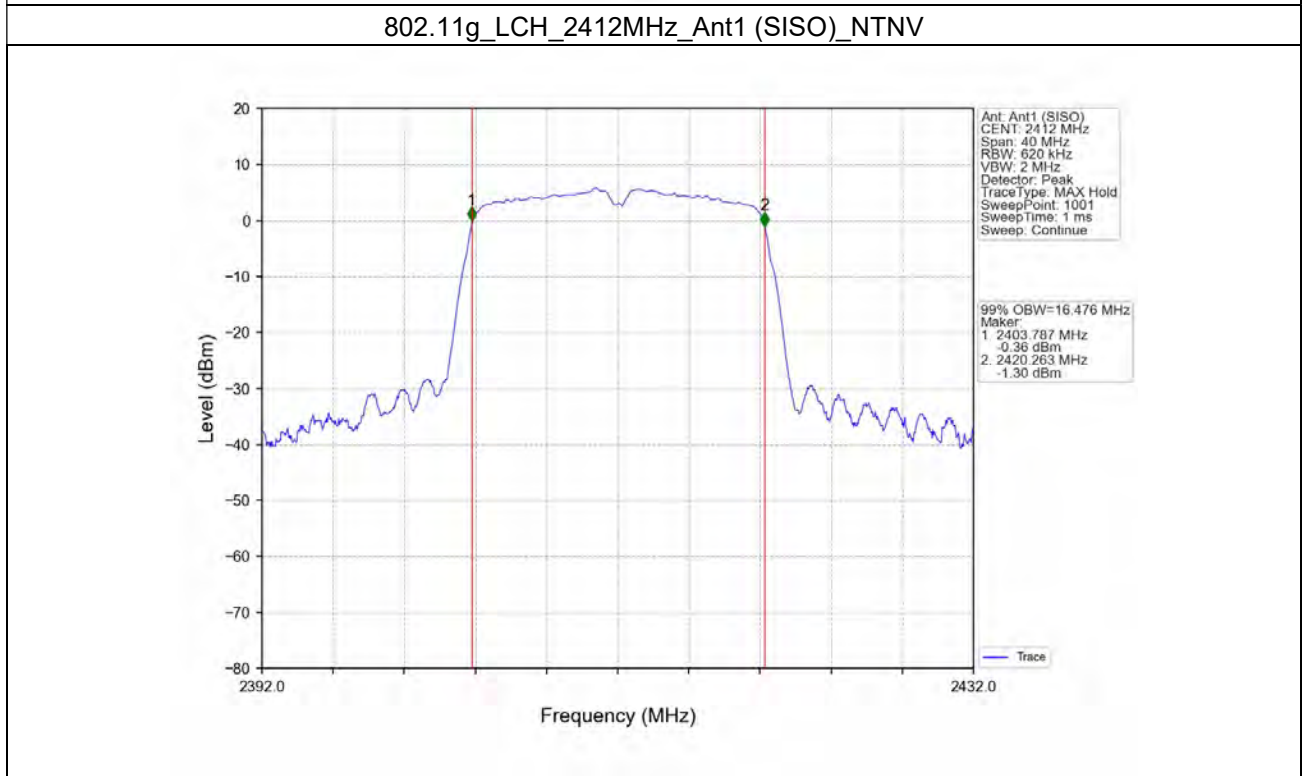
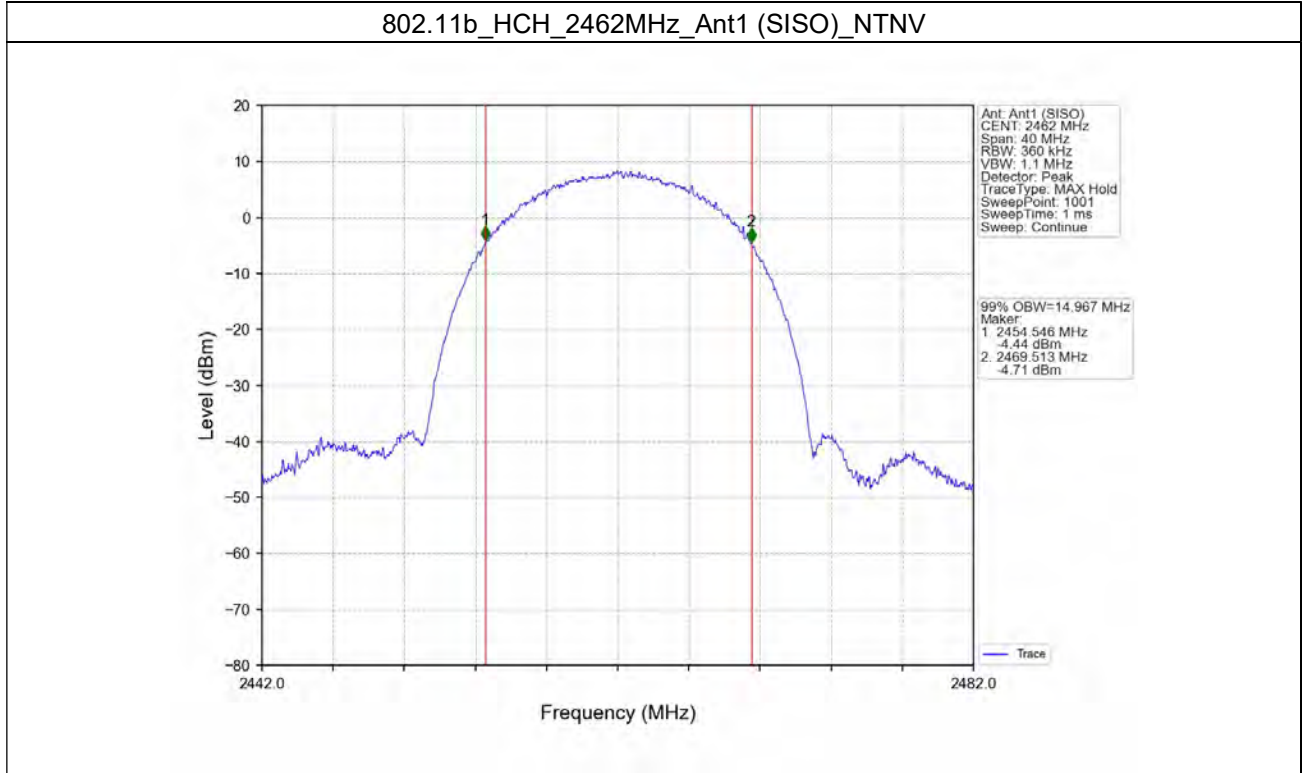
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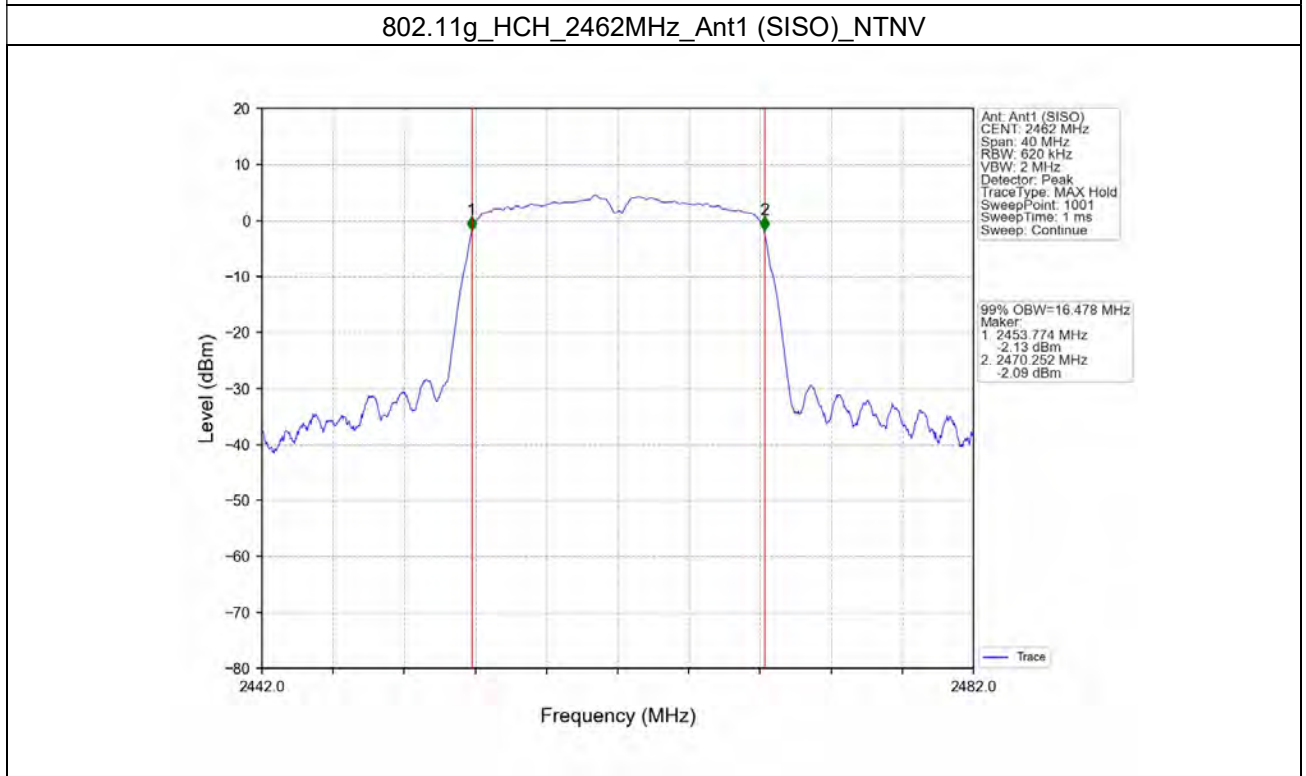
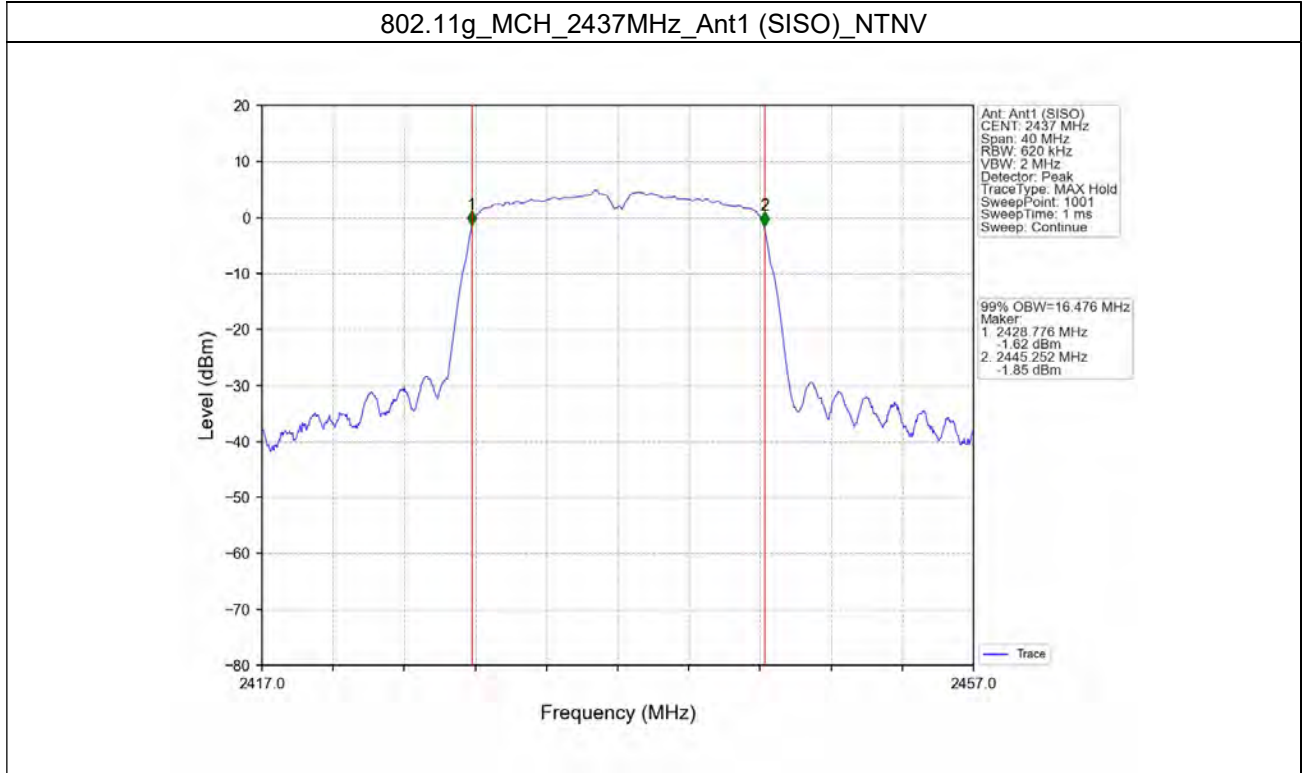
2.1.2 Test Graph



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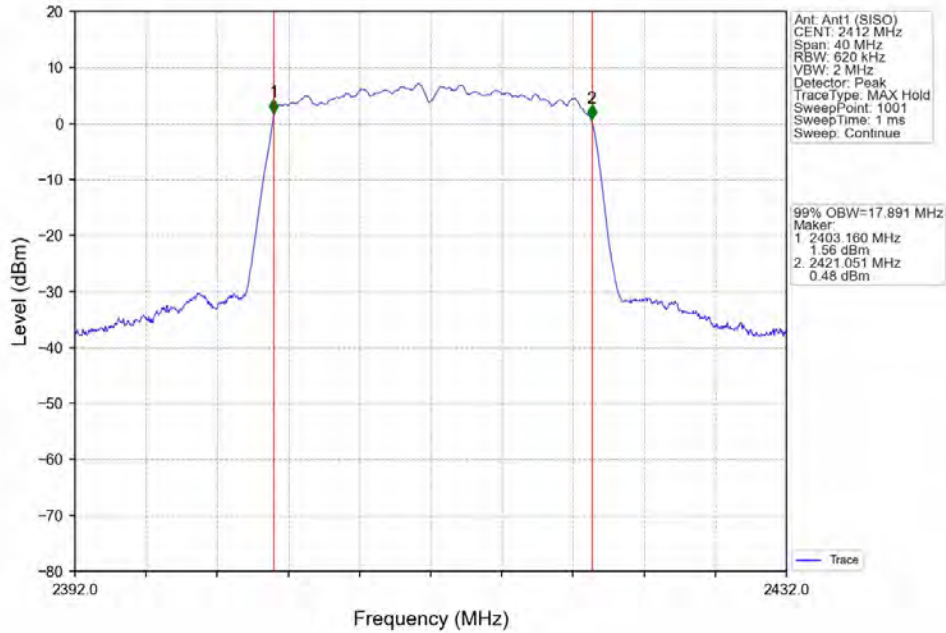


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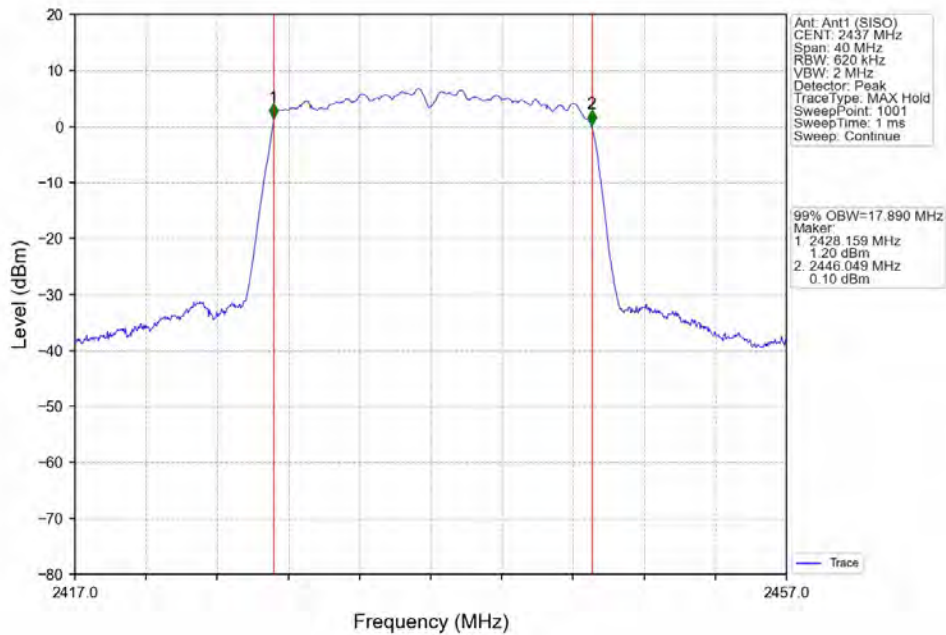
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



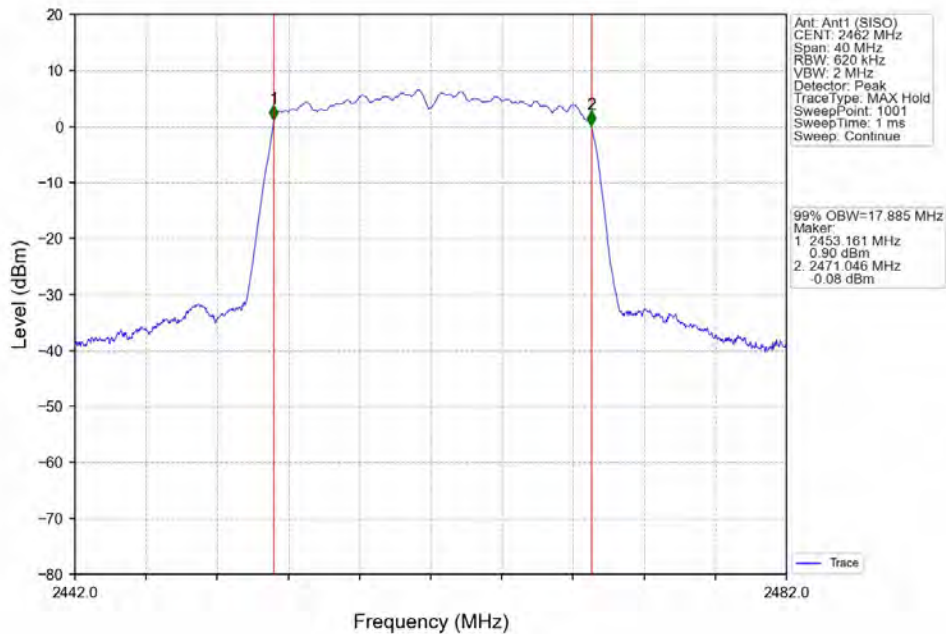
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



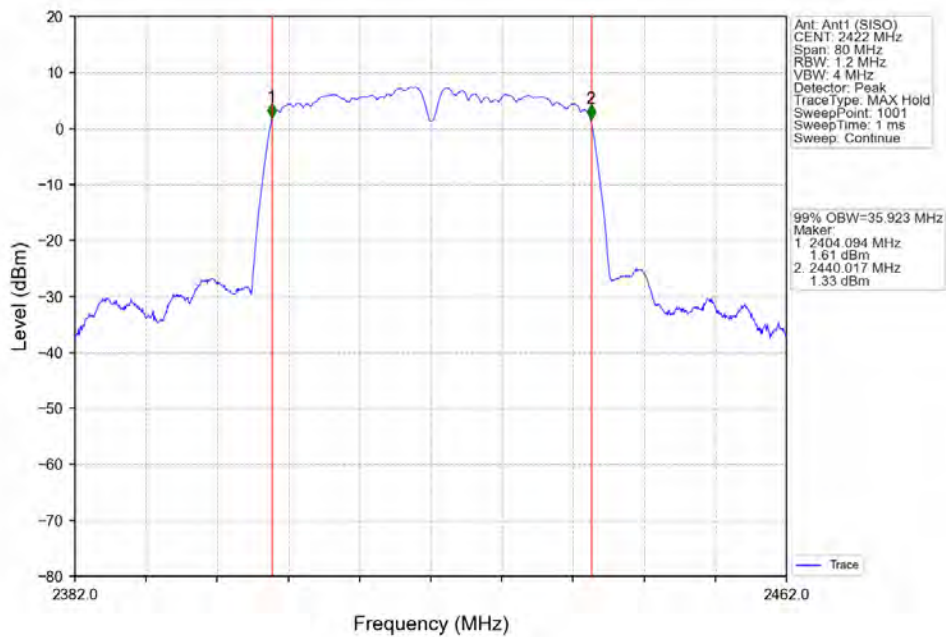
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

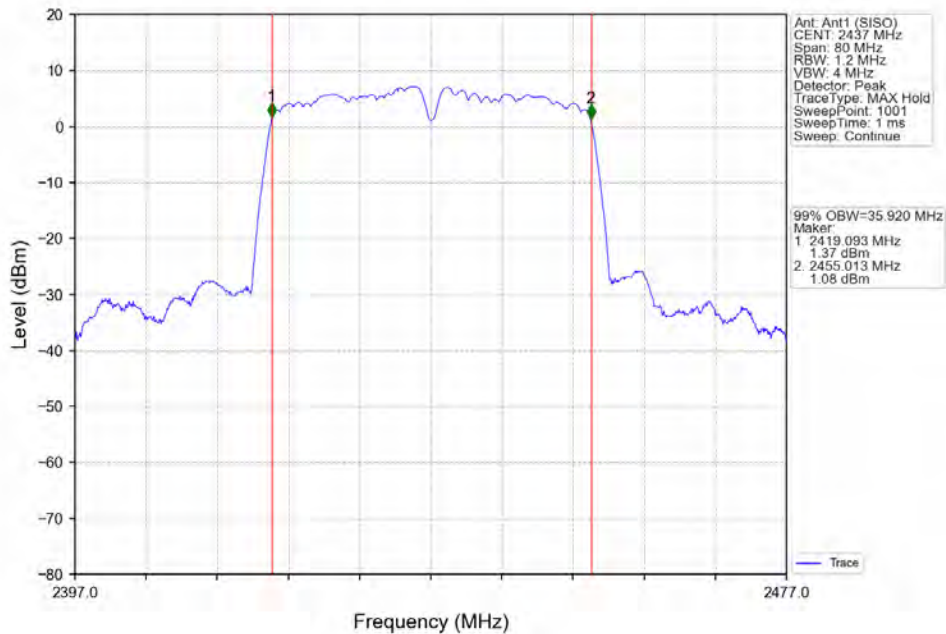


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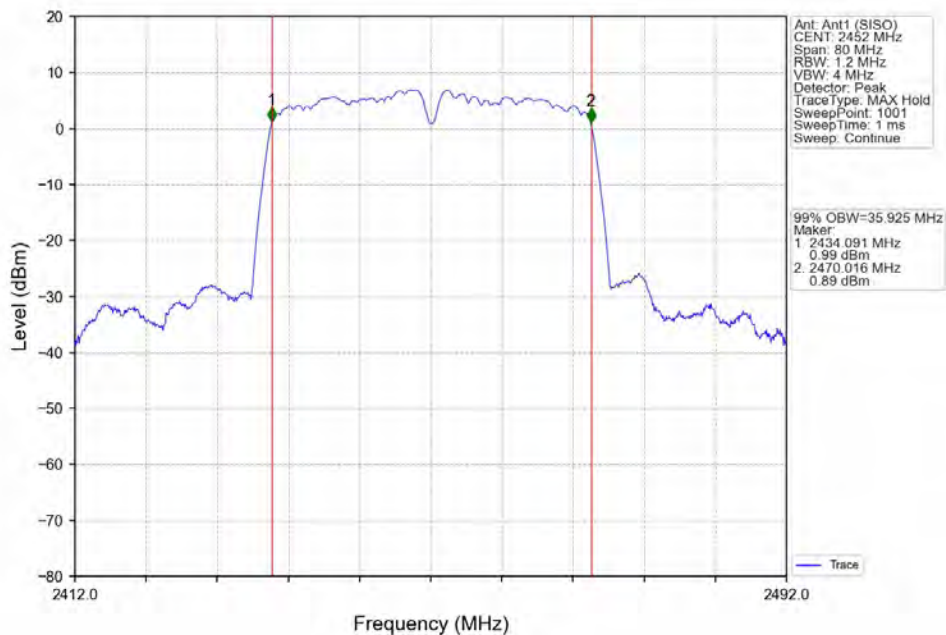
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

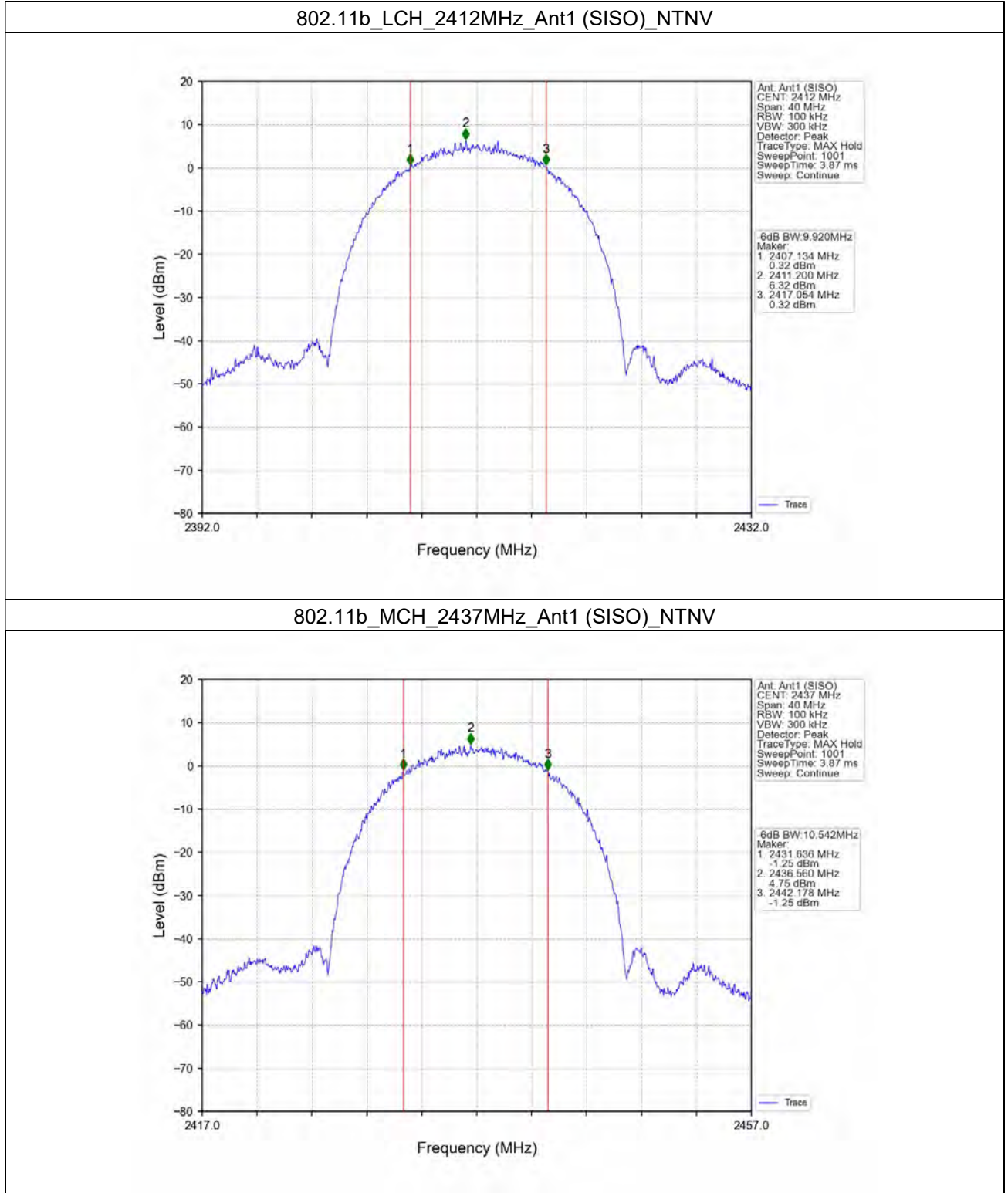
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.920	>=0.5	Pass
		2437	1	10.542	>=0.5	Pass
		2462	1	10.664	>=0.5	Pass
802.11g	SISO	2412	1	15.180	>=0.5	Pass
		2437	1	15.182	>=0.5	Pass
		2462	1	15.180	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.070	>=0.5	Pass
		2437	1	17.616	>=0.5	Pass
		2462	1	17.618	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.167	>=0.5	Pass
		2437	1	35.168	>=0.5	Pass
		2452	1	35.170	>=0.5	Pass



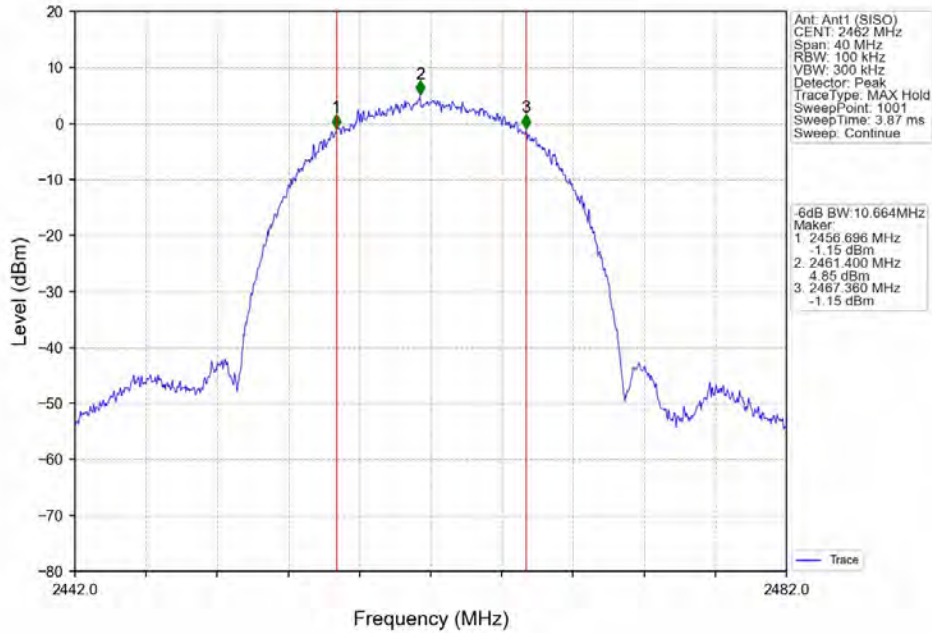
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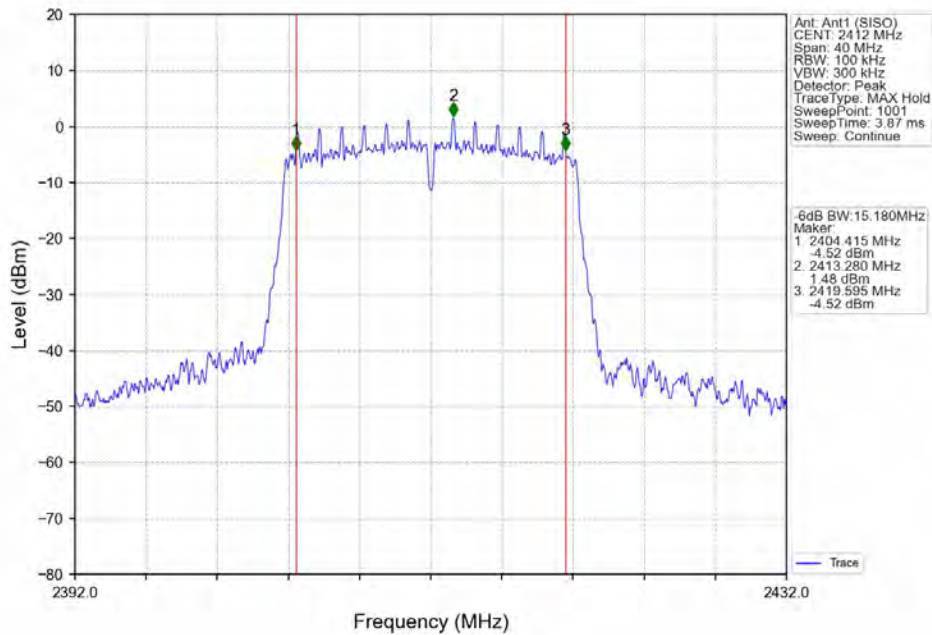
2.2.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

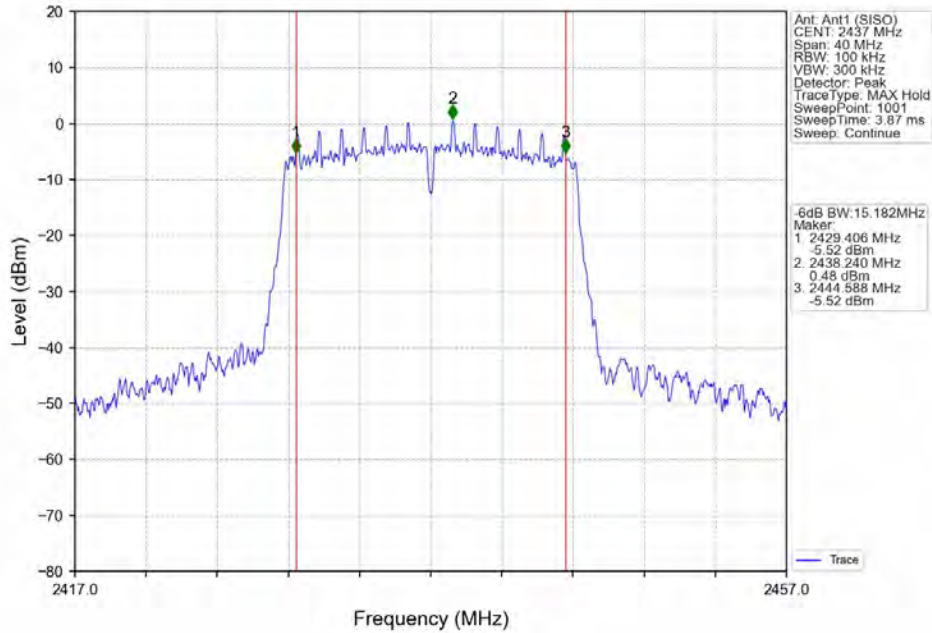


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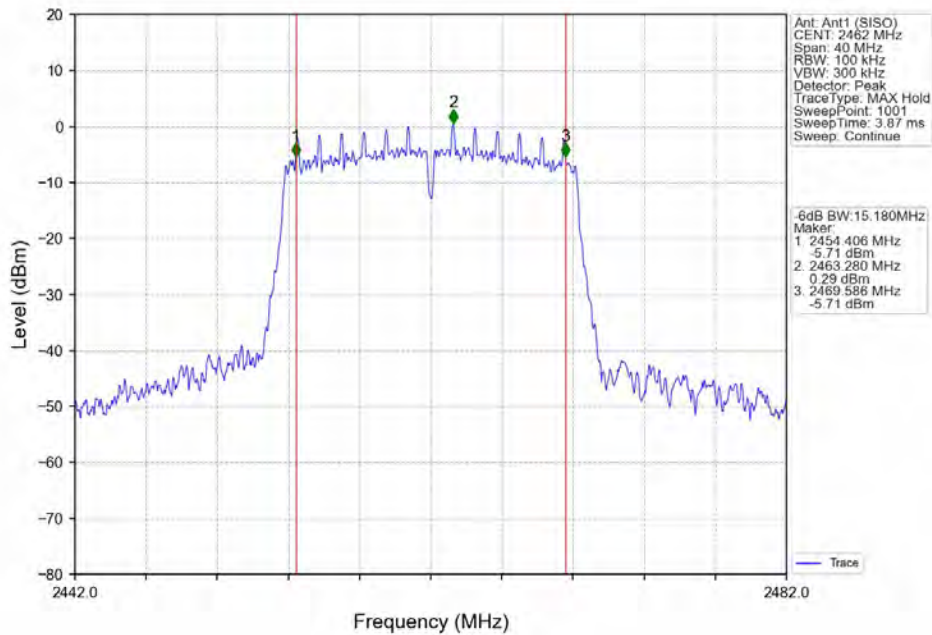
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



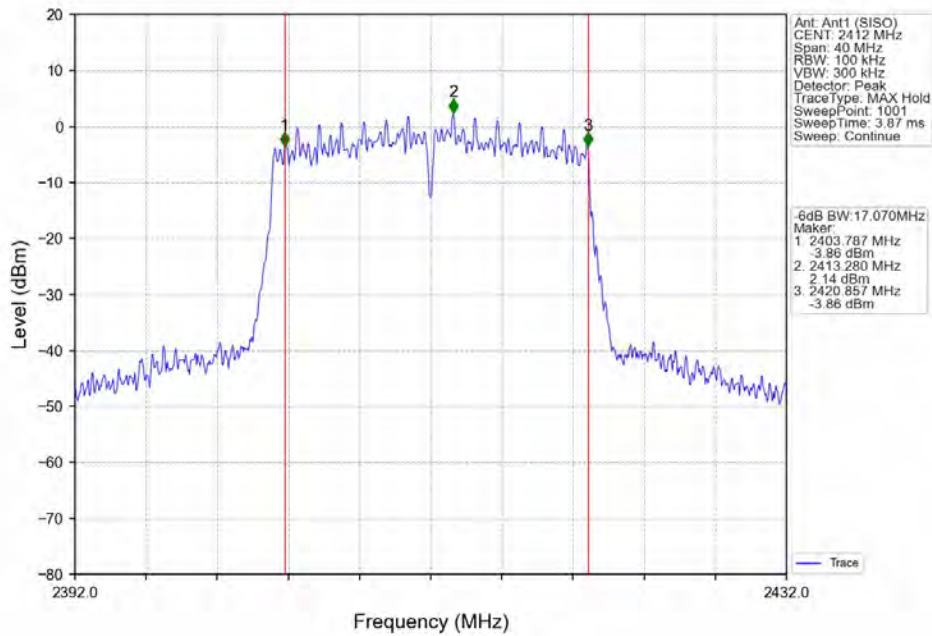
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



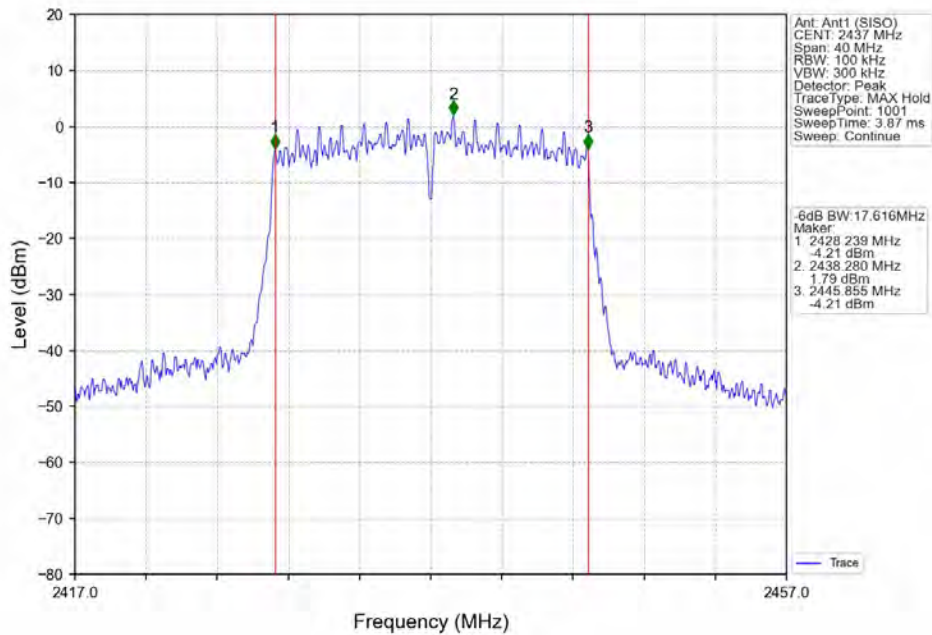
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



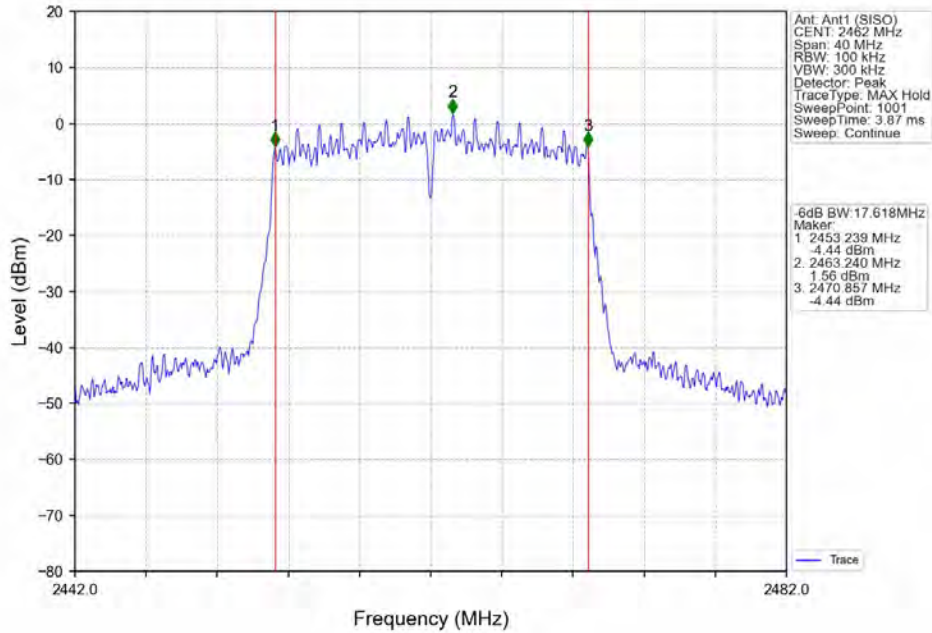
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



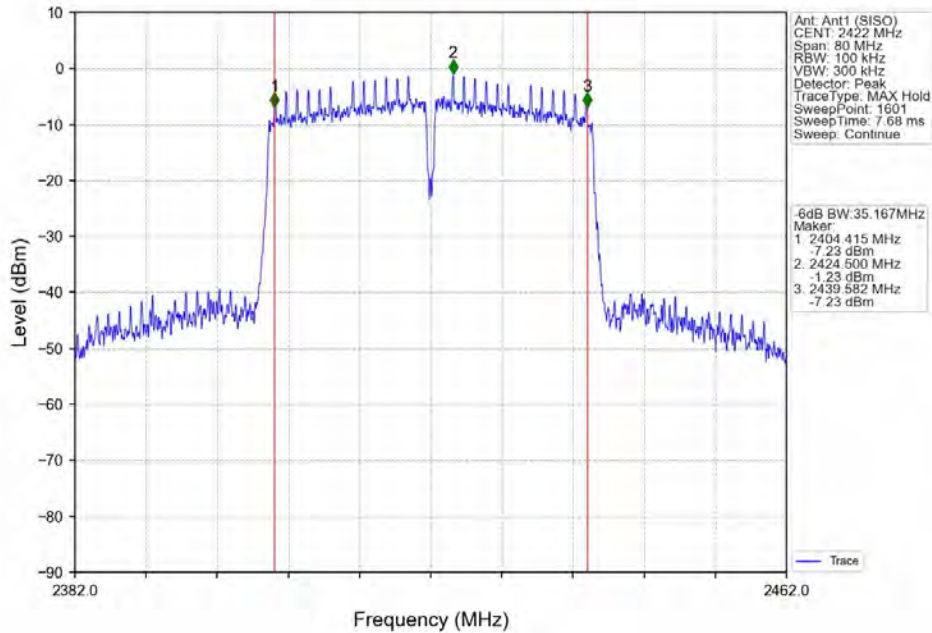
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



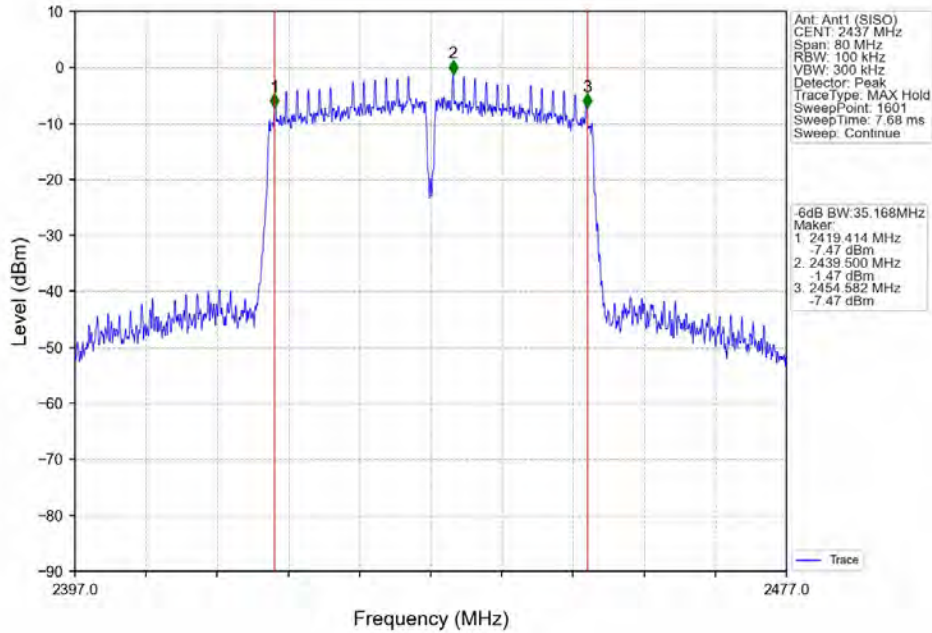
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



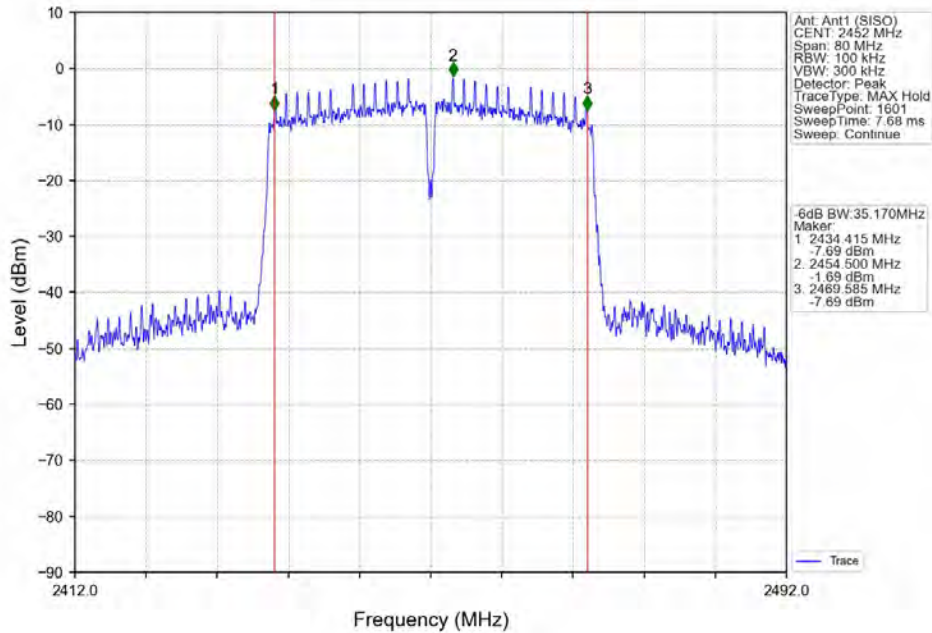
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	14.05	<=30	Pass
		2437	13.55	<=30	Pass
		2462	13.30	<=30	Pass
802.11g	SISO	2412	11.38	<=30	Pass
		2437	10.56	<=30	Pass
		2462	10.34	<=30	Pass
802.11n (HT20)	SISO	2412	12.04	<=30	Pass
		2437	11.70	<=30	Pass
		2462	11.49	<=30	Pass
802.11n (HT40)	SISO	2422	11.58	<=30	Pass
		2437	16.85	<=30	Pass
		2452	11.18	<=30	Pass

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	-9.04	<=8	Pass
		2437	-9.41	<=8	Pass
		2462	-9.65	<=8	Pass
802.11g	SISO	2412	-14.27	<=8	Pass
		2437	-15.11	<=8	Pass
		2462	-15.28	<=8	Pass
802.11n (HT20)	SISO	2412	-14.39	<=8	Pass
		2437	-14.74	<=8	Pass
		2462	-14.92	<=8	Pass
802.11n	SISO	2422	-17.45	<=8	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231200413004

Page: 113 of 137

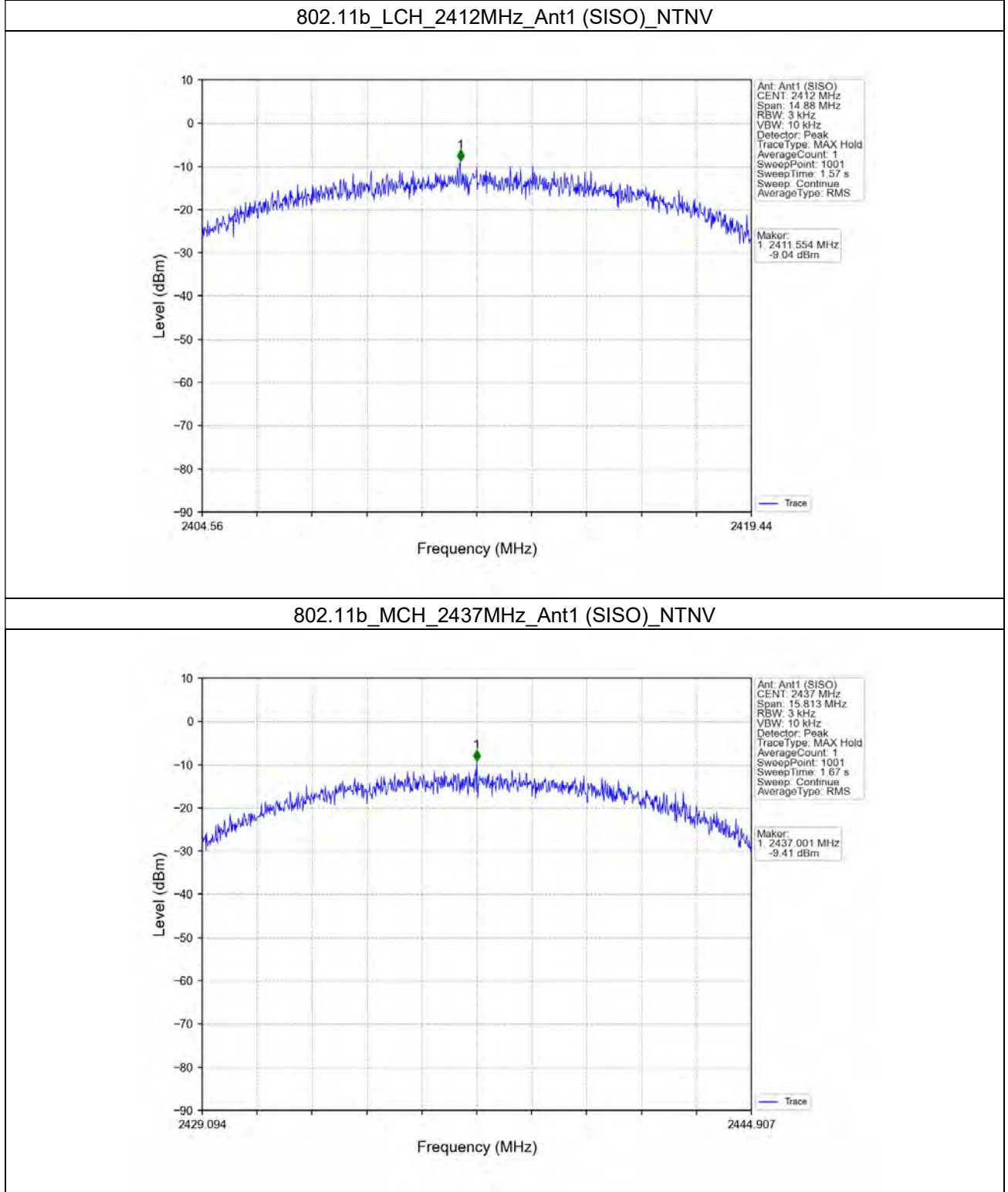
(HT40)	2437	-17.71	<=8	Pass
	2452	-18.01	<=8	Pass



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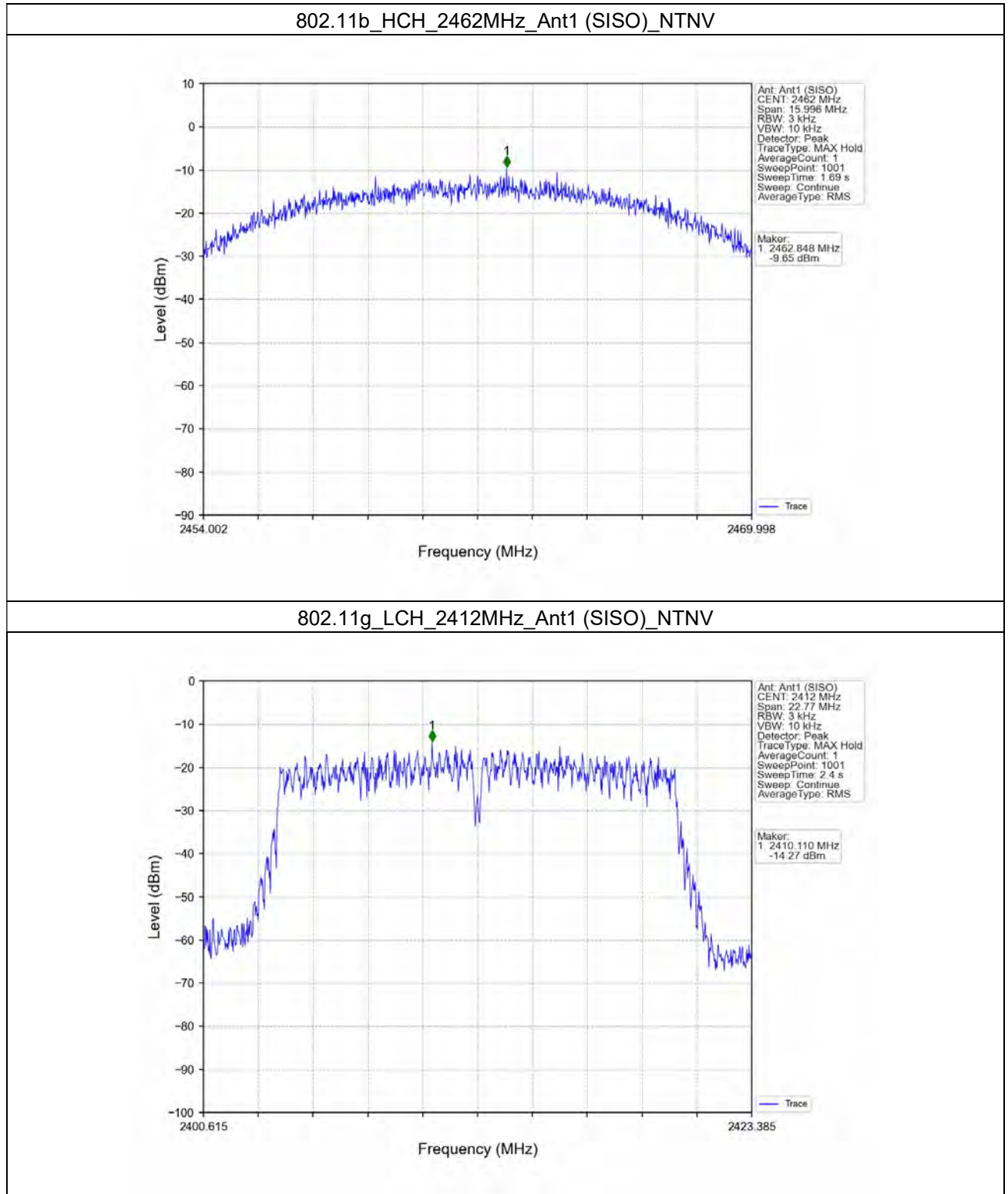
4.1.2 Test Graph



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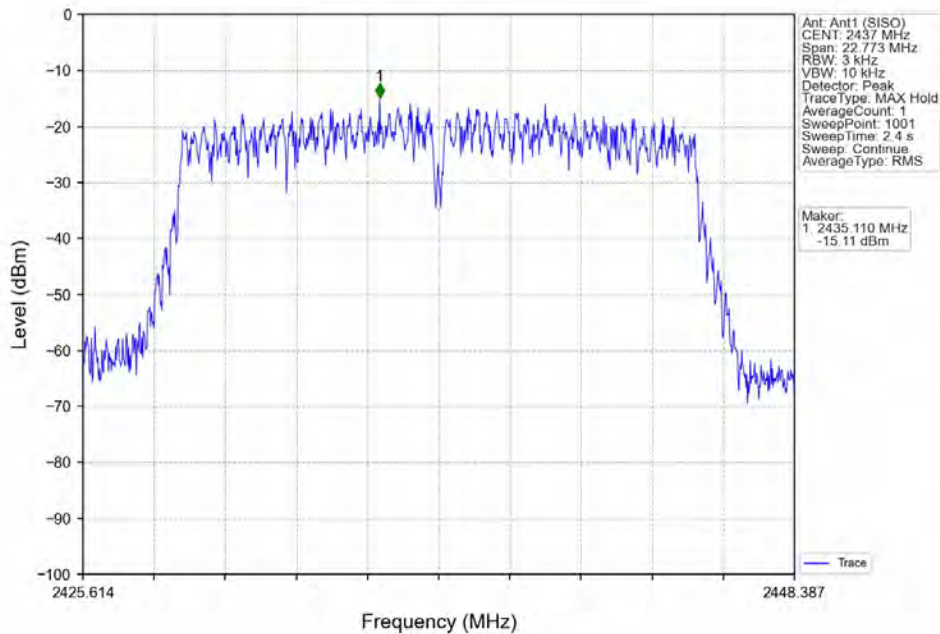
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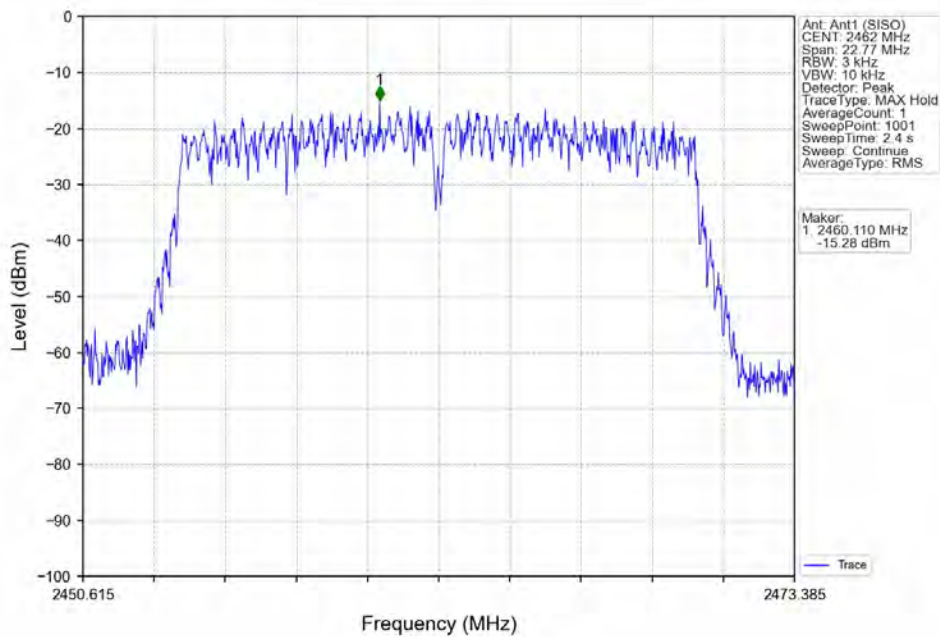
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



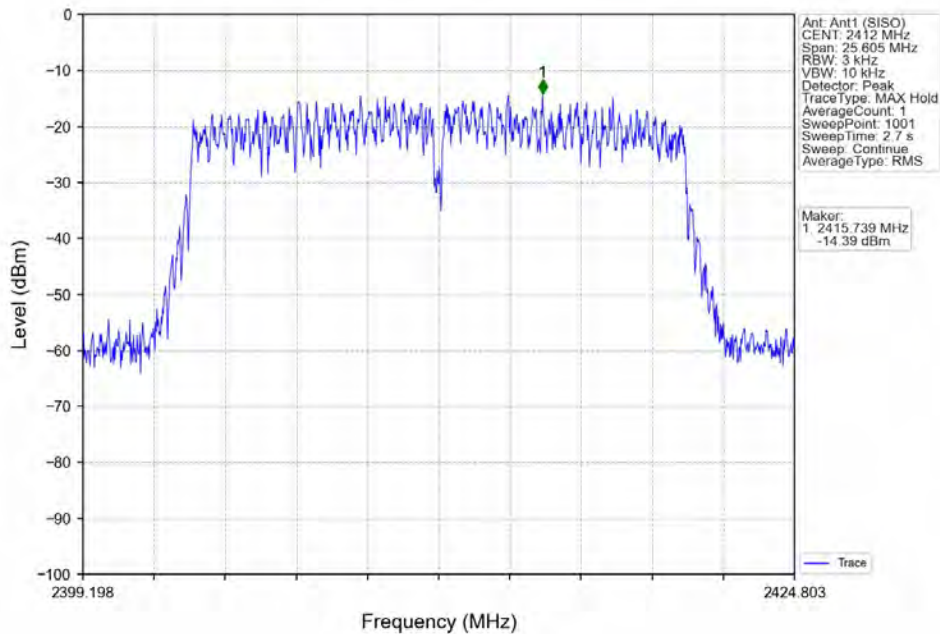
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



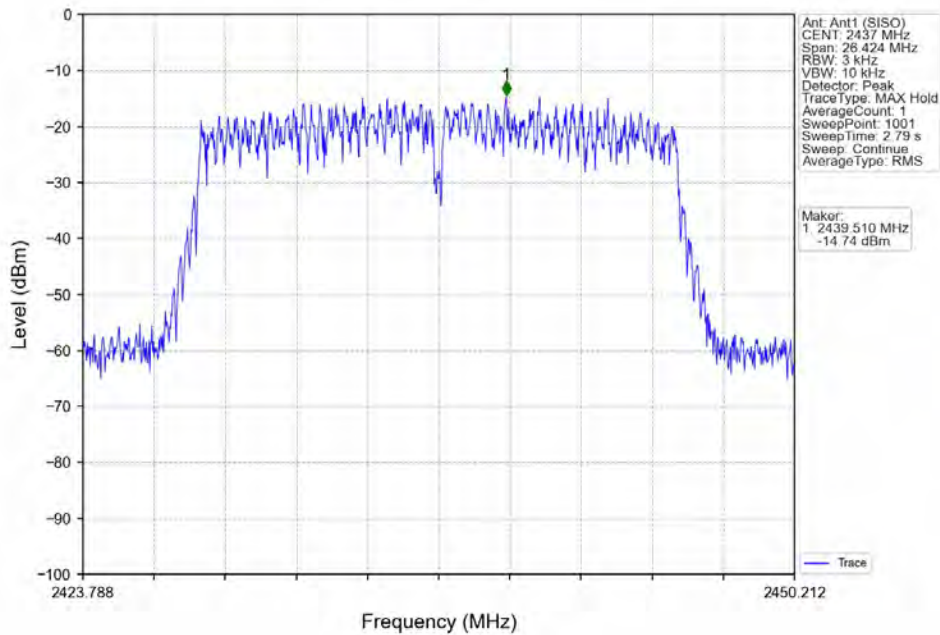
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



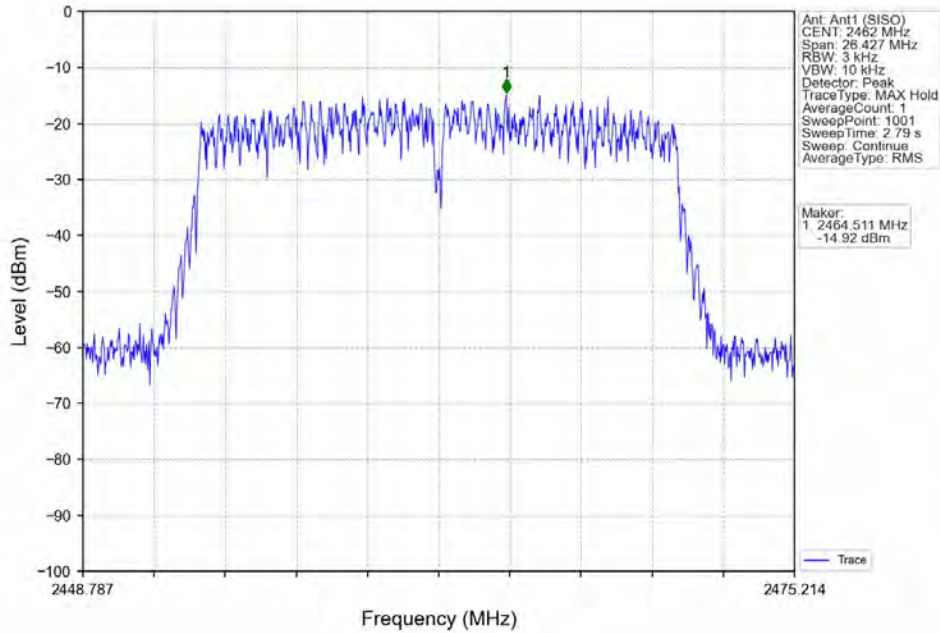
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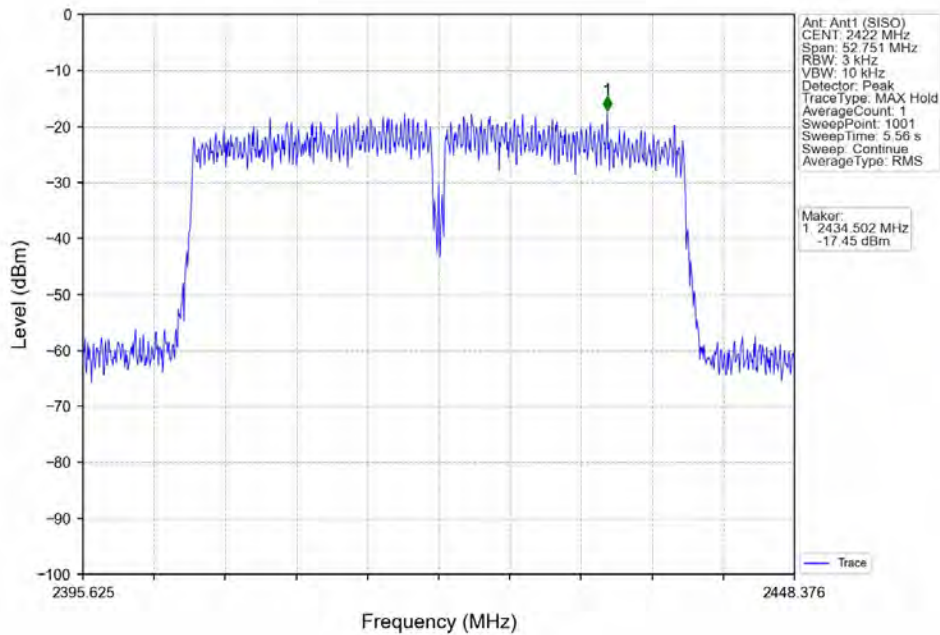
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



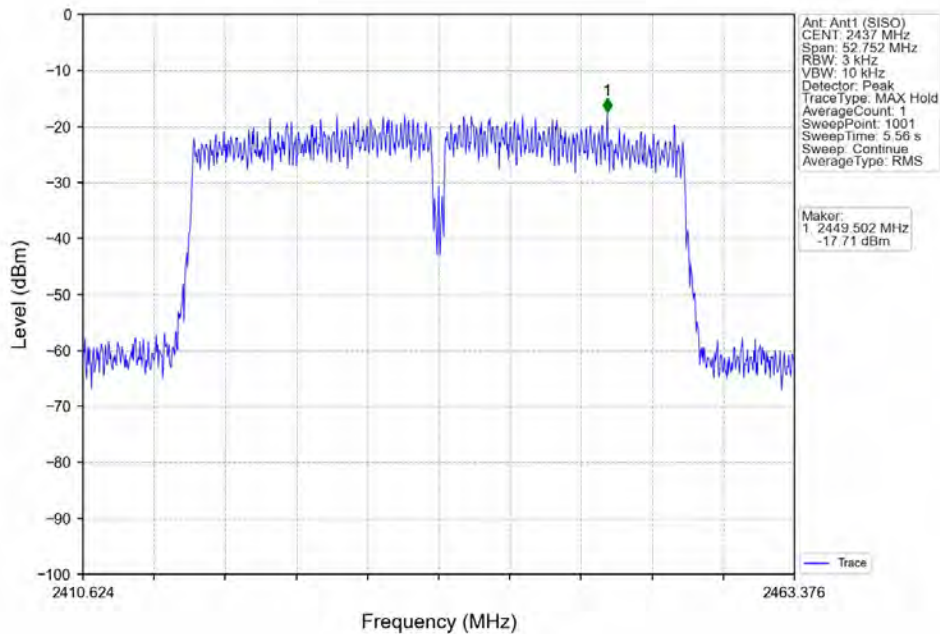
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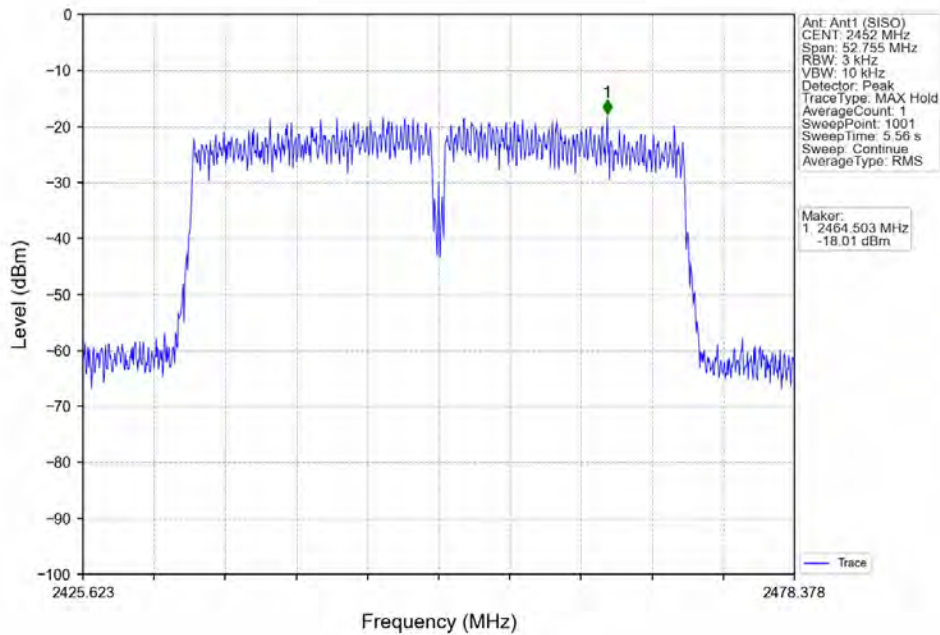
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

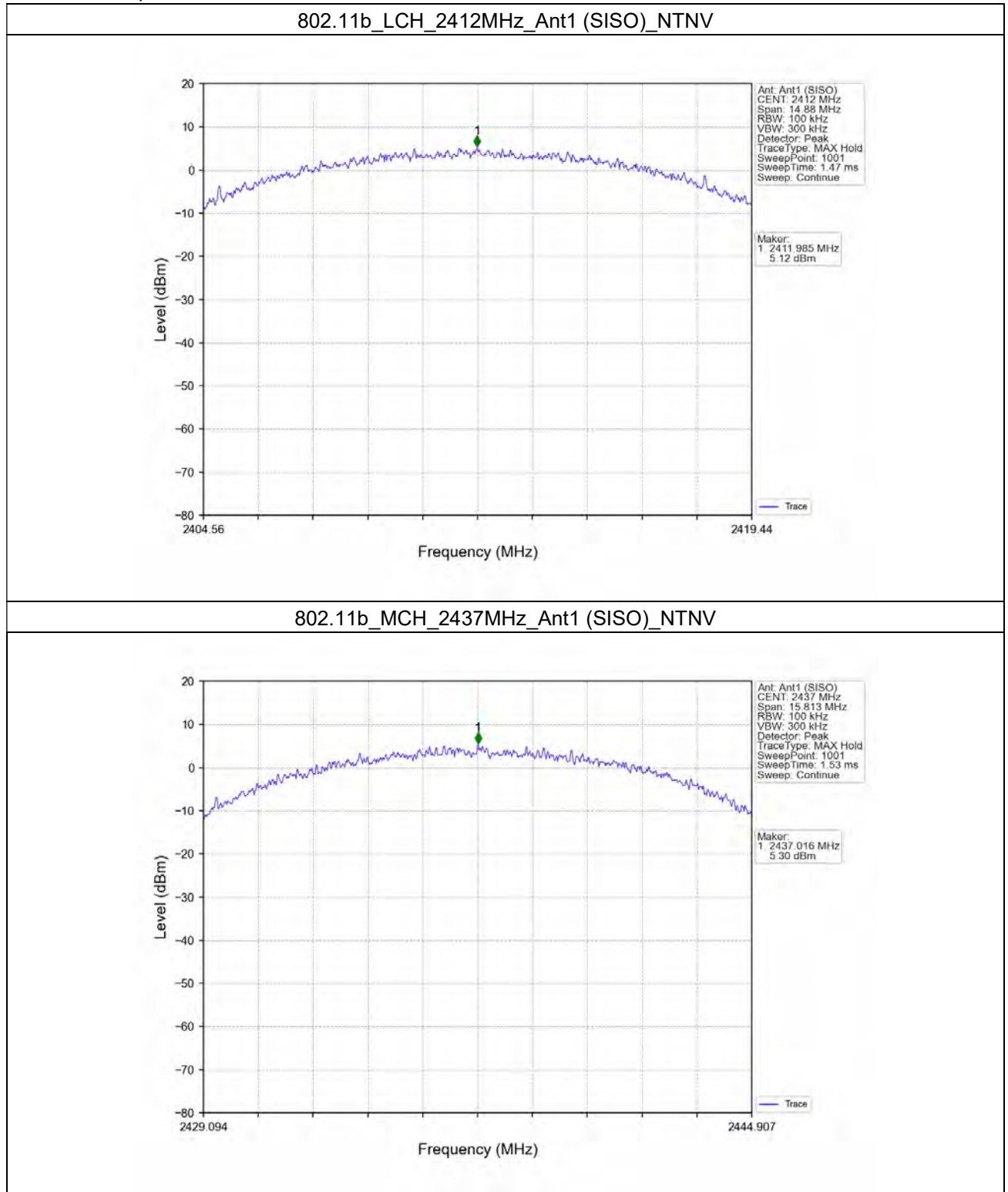
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	5.12
		2437	1	5.30
		2462	1	4.56
802.11g	SISO	2412	1	1.11
		2437	1	0.47
		2462	1	0.26
802.11n (HT20)	SISO	2412	1	2.09
		2437	1	1.77
		2462	1	1.53
802.11n (HT40)	SISO	2422	1	-1.34
		2437	1	-1.52
		2452	1	-1.71



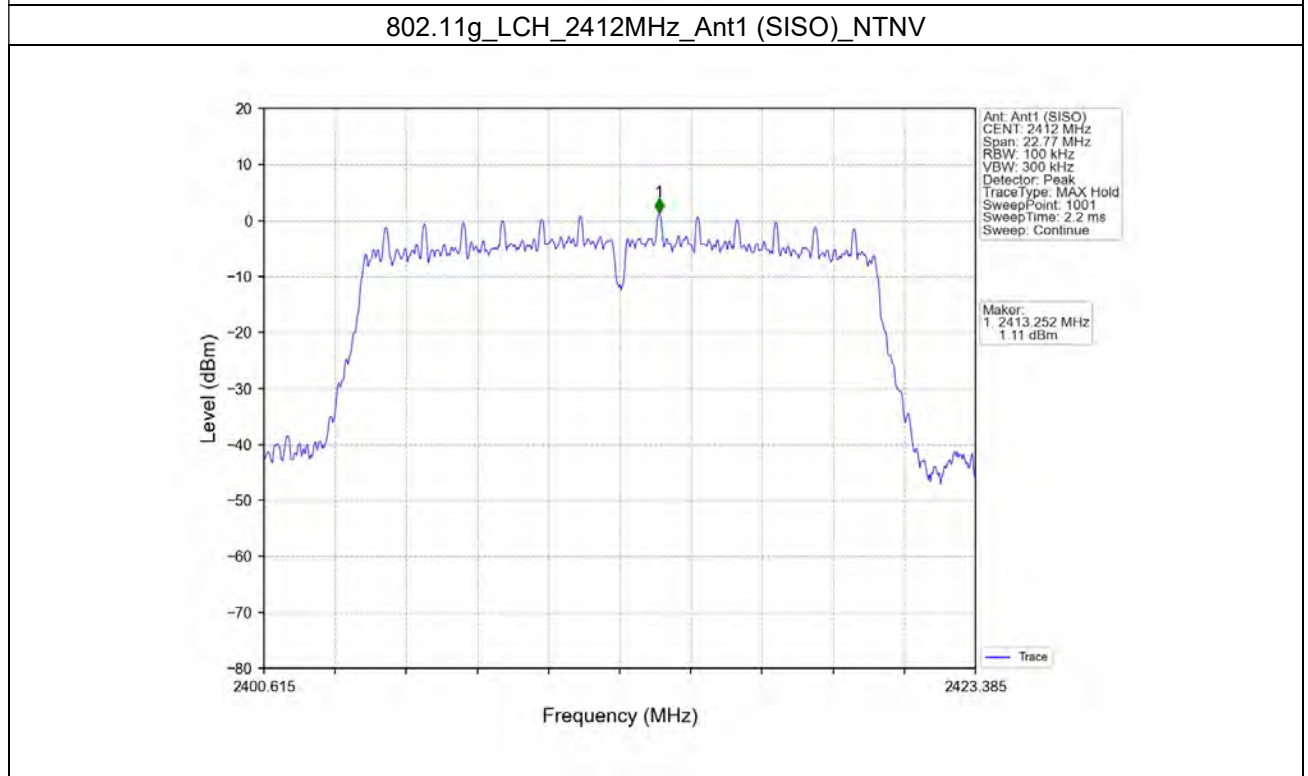
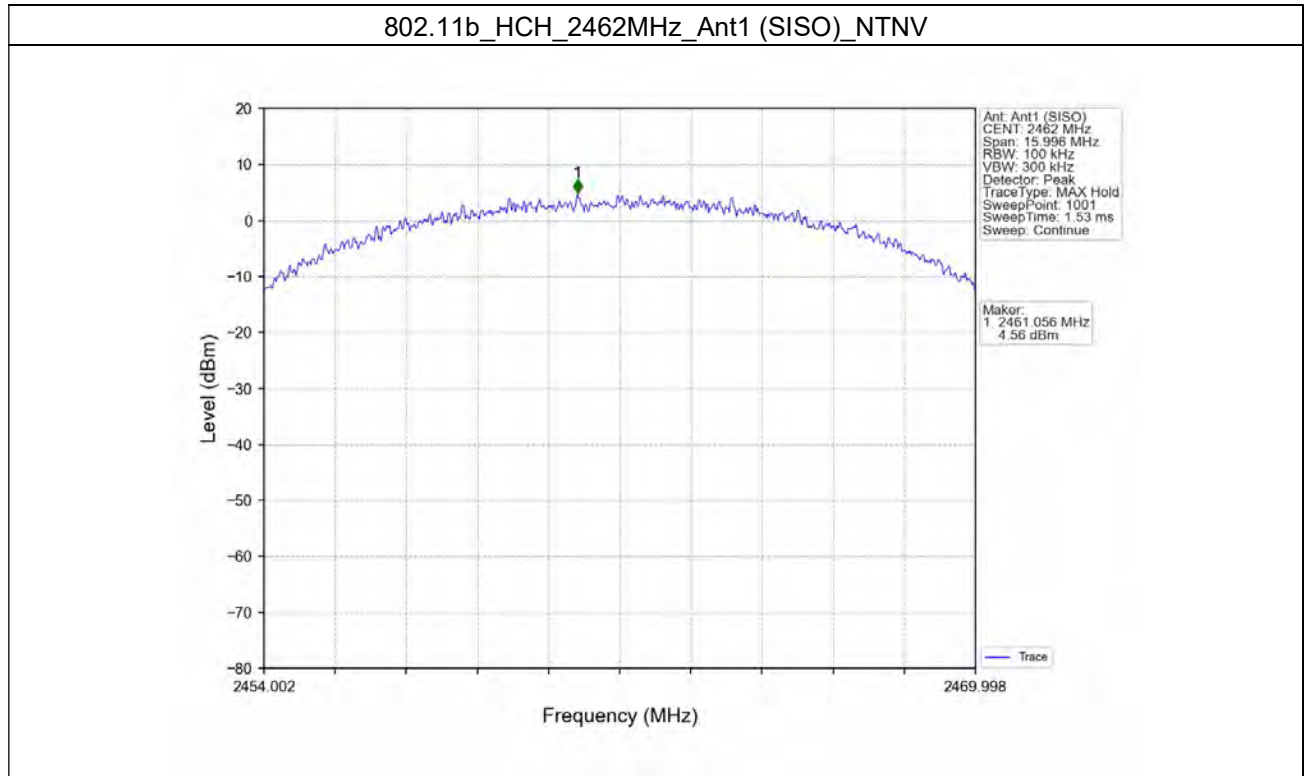
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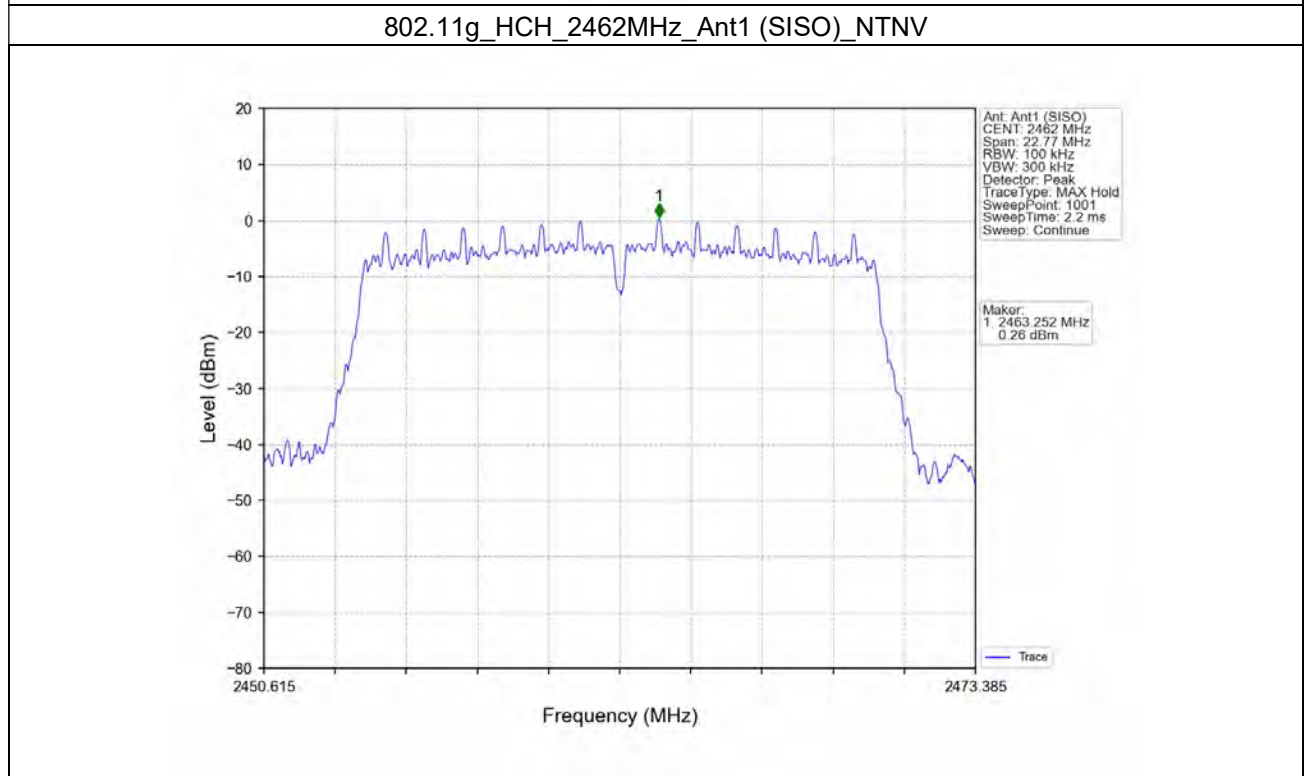
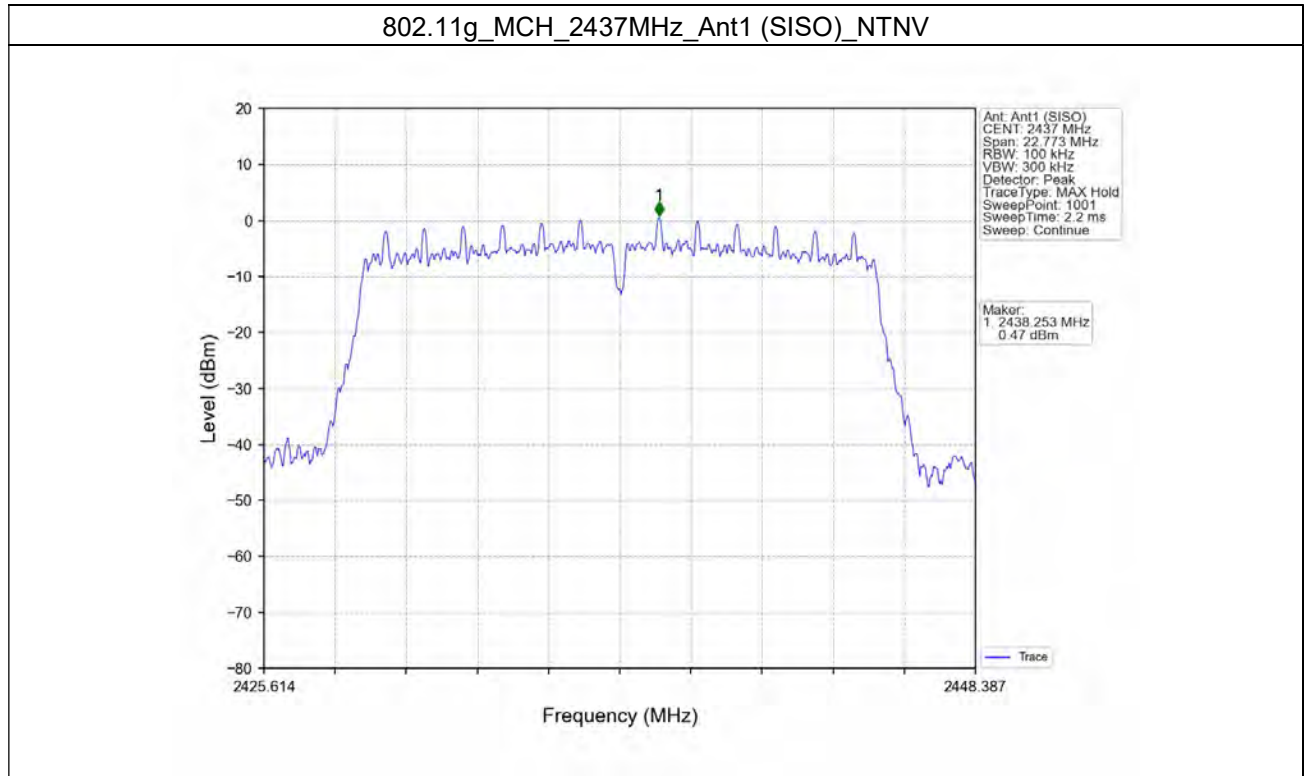
5.1.2 Test Graph



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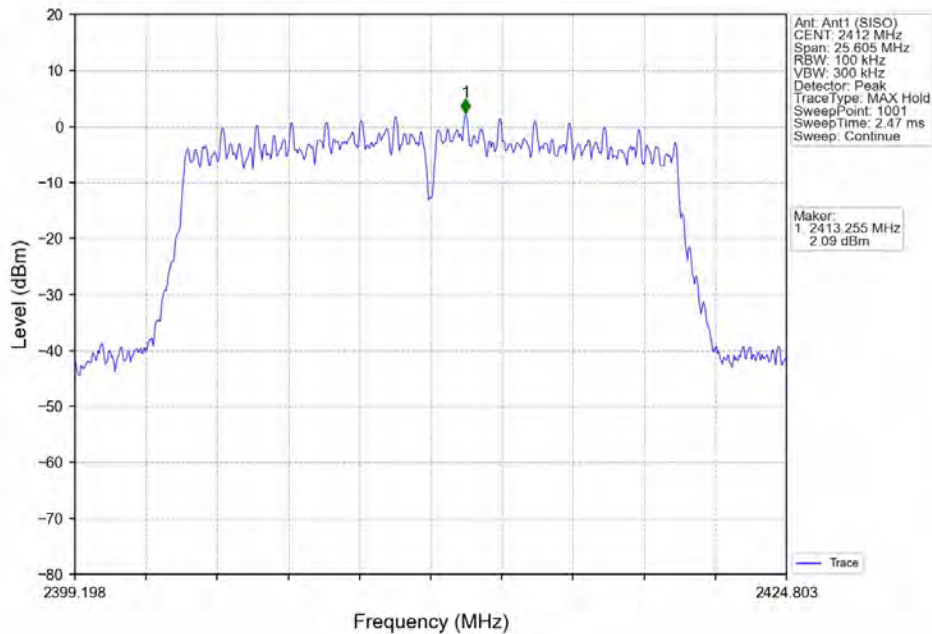
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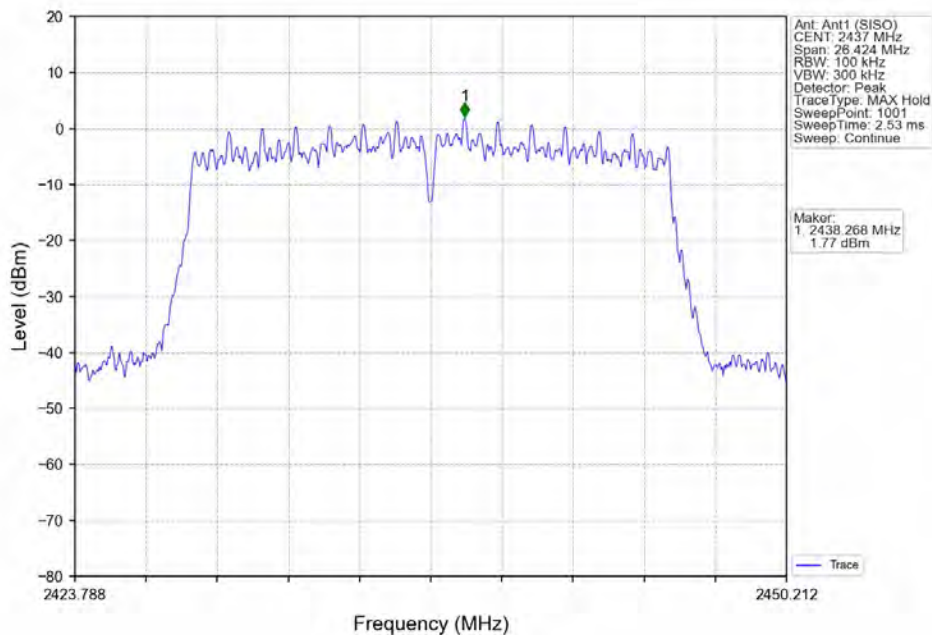
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



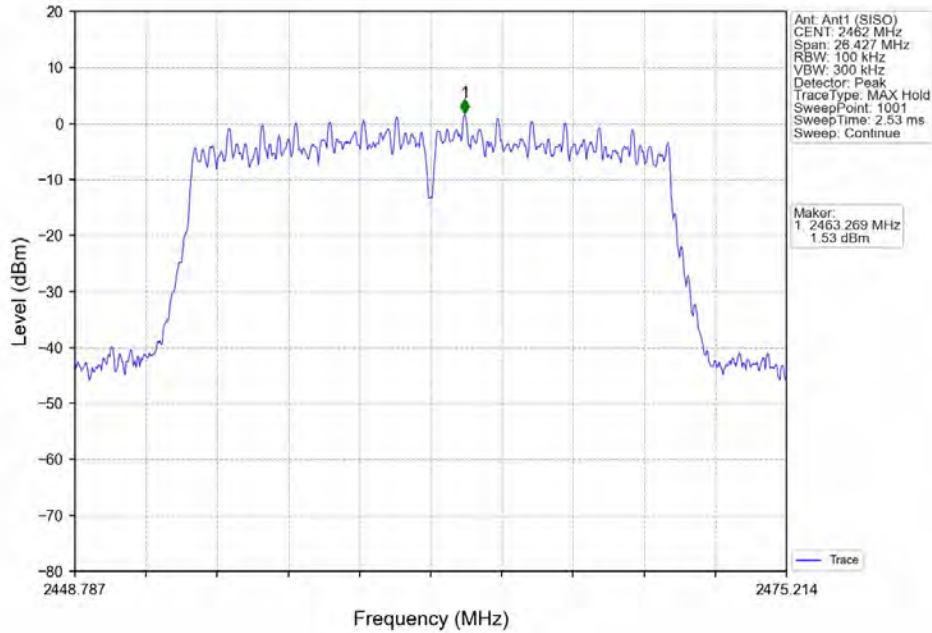
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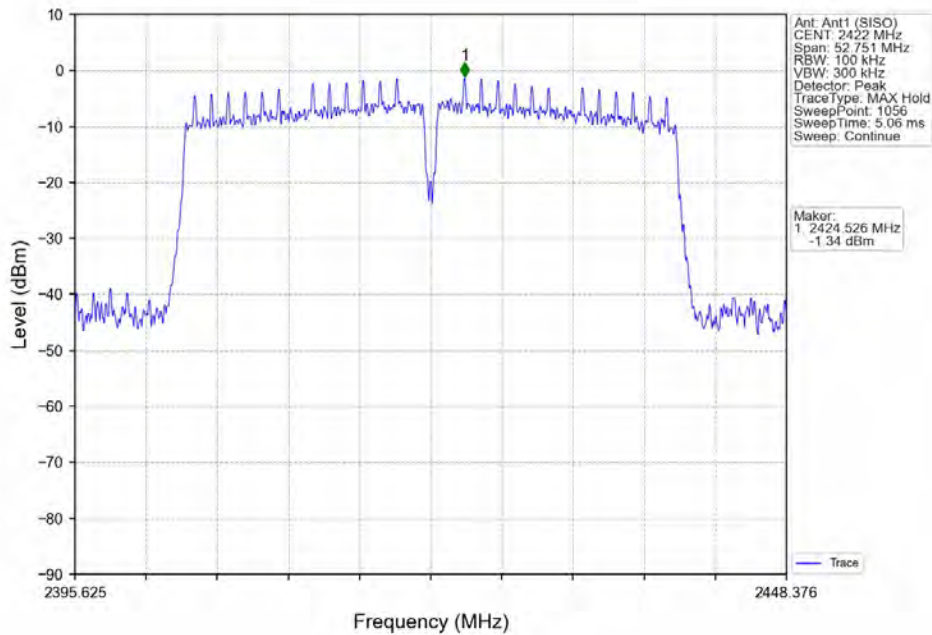
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



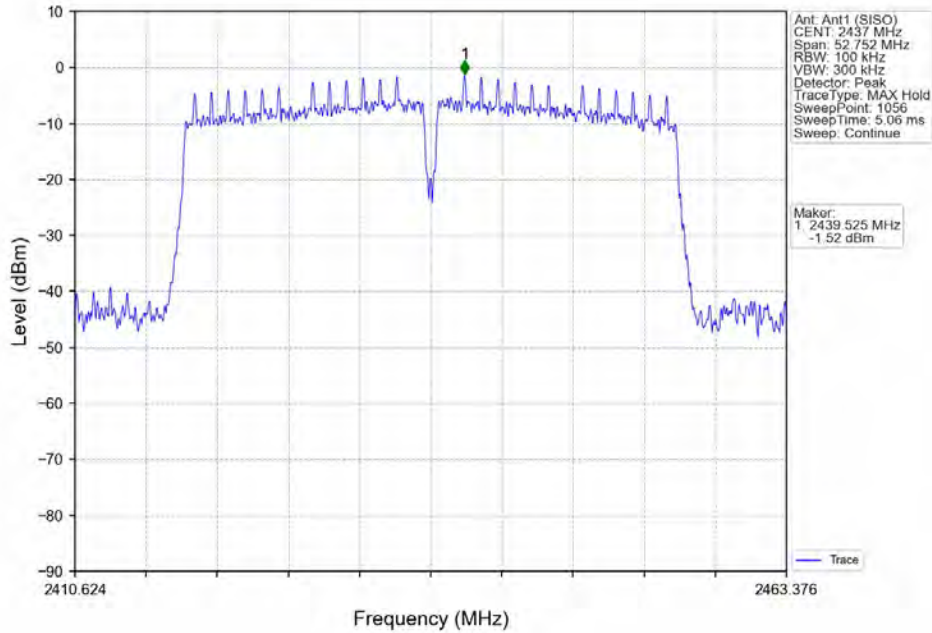
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



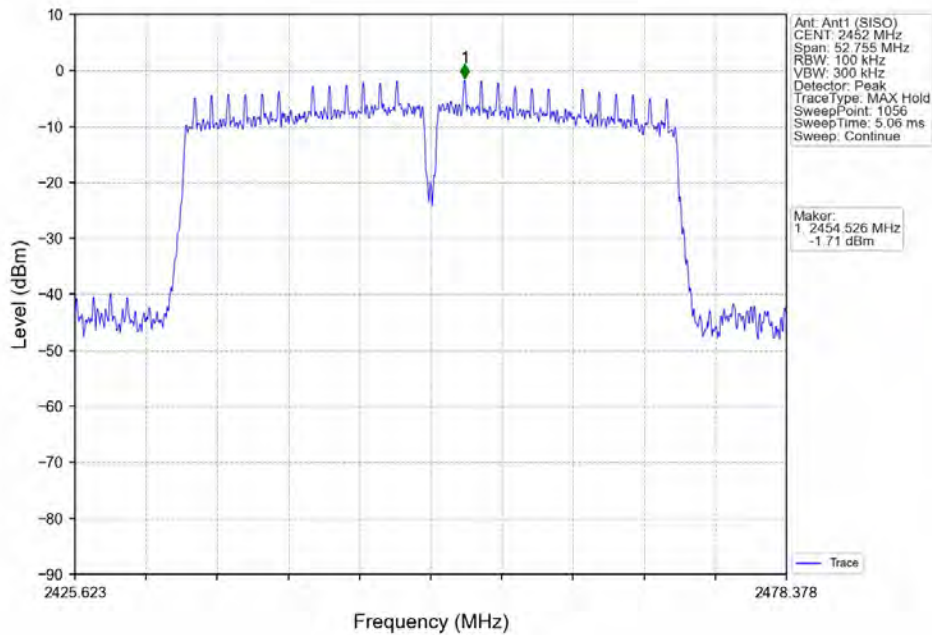
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

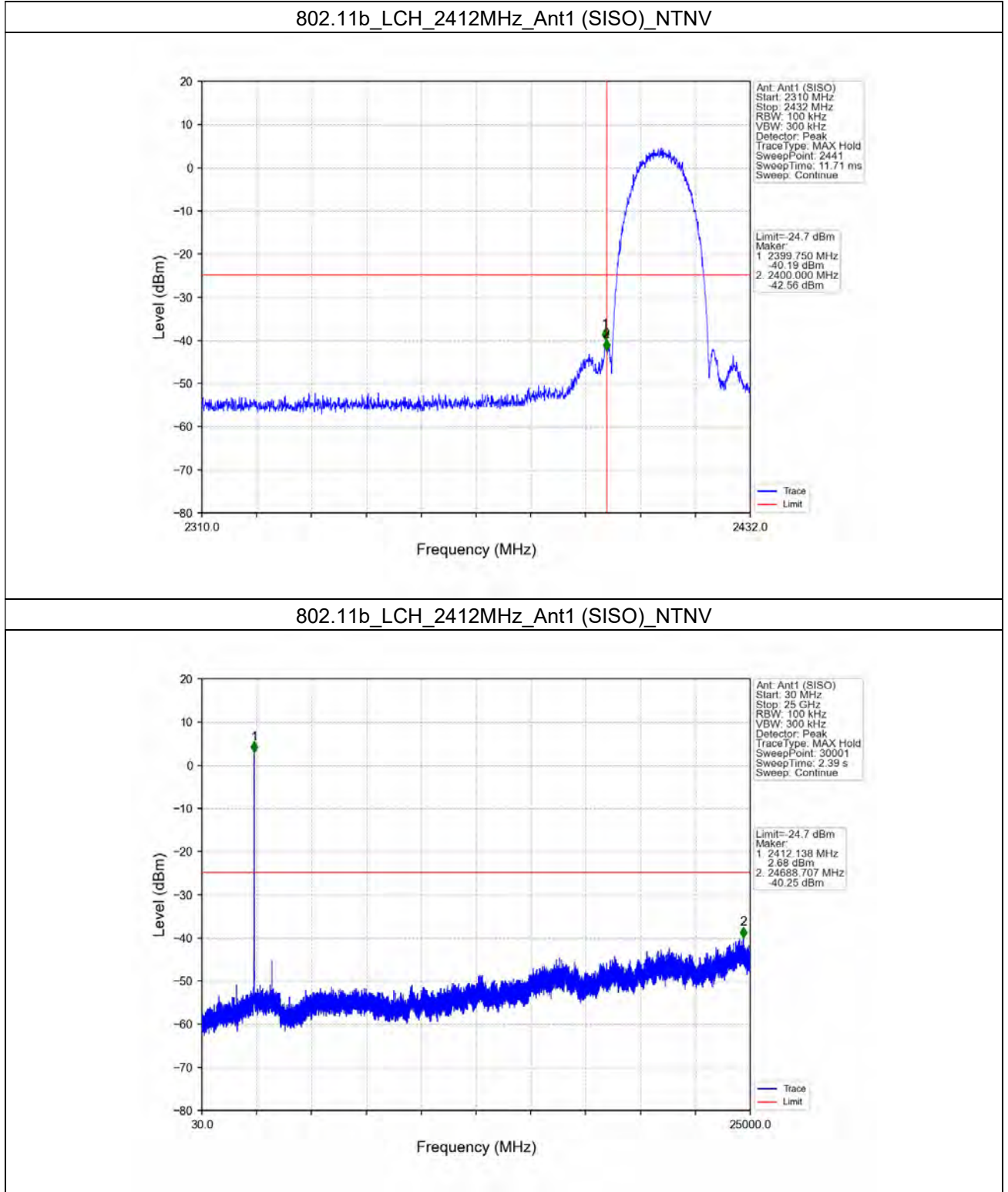
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	5.30	-24.70	Pass
		2437	1	5.30	-24.70	Pass
		2462	1	5.30	-24.70	Pass
802.11g	SISO	2412	1	1.11	-28.89	Pass
		2437	1	1.11	-28.89	Pass
		2462	1	1.11	-28.89	Pass
802.11n (HT20)	SISO	2412	1	2.09	-27.91	Pass
		2437	1	2.09	-27.91	Pass
		2462	1	2.09	-27.91	Pass
802.11n (HT40)	SISO	2422	1	-1.34	-31.34	Pass
		2437	1	-1.34	-31.34	Pass
		2452	1	-1.34	-31.34	Pass



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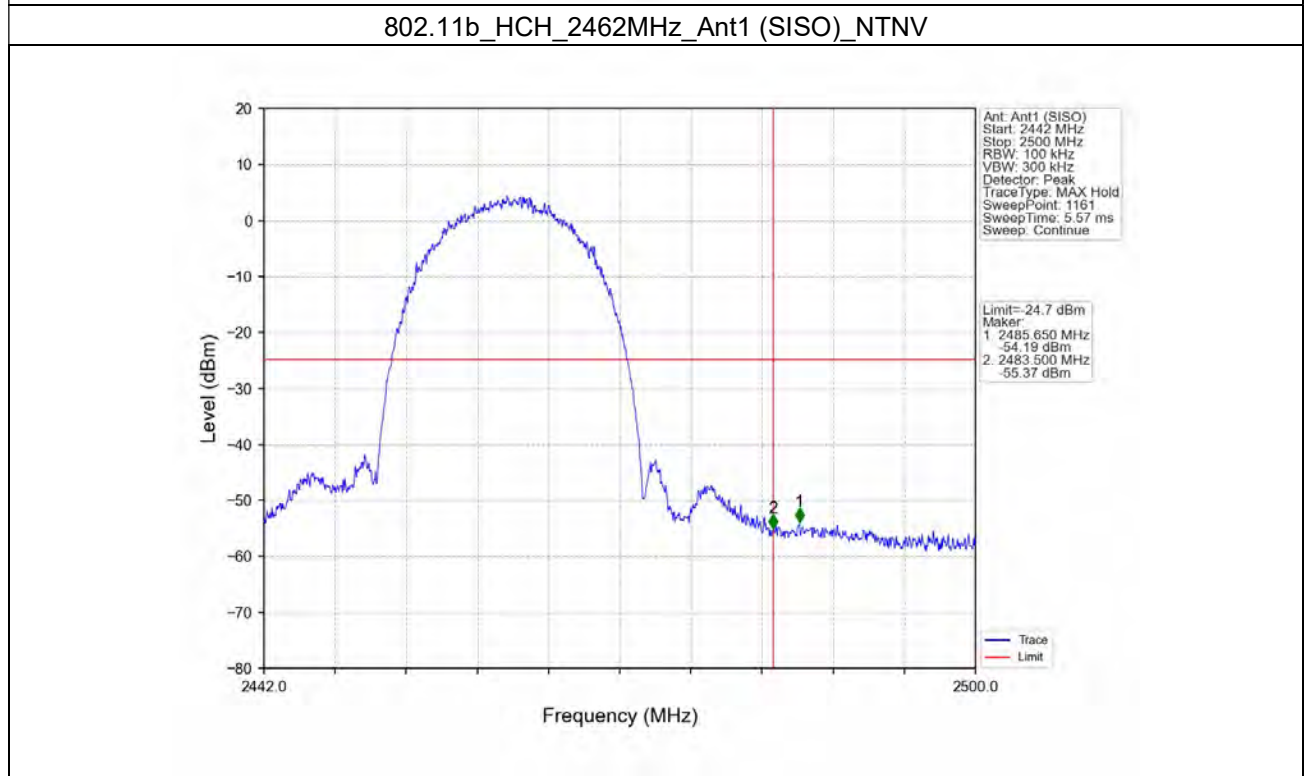
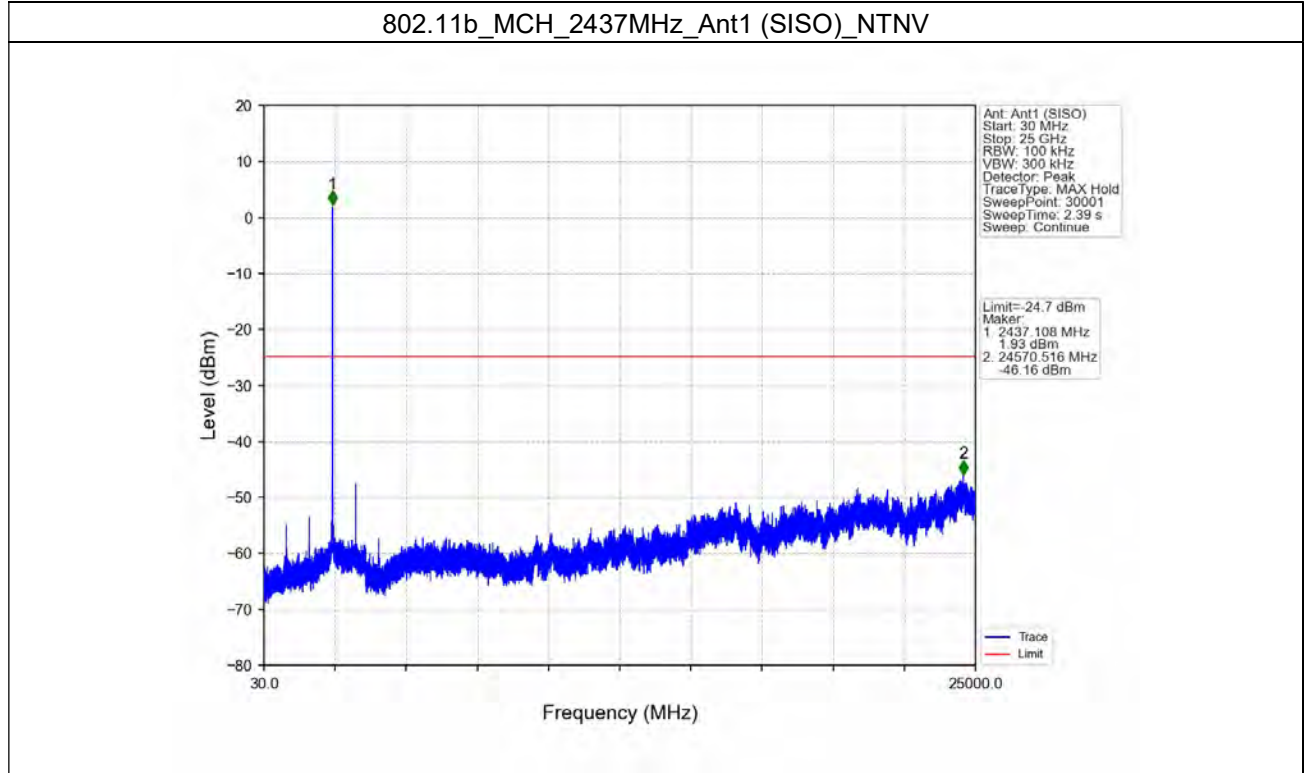
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5.2.2 Test Graph

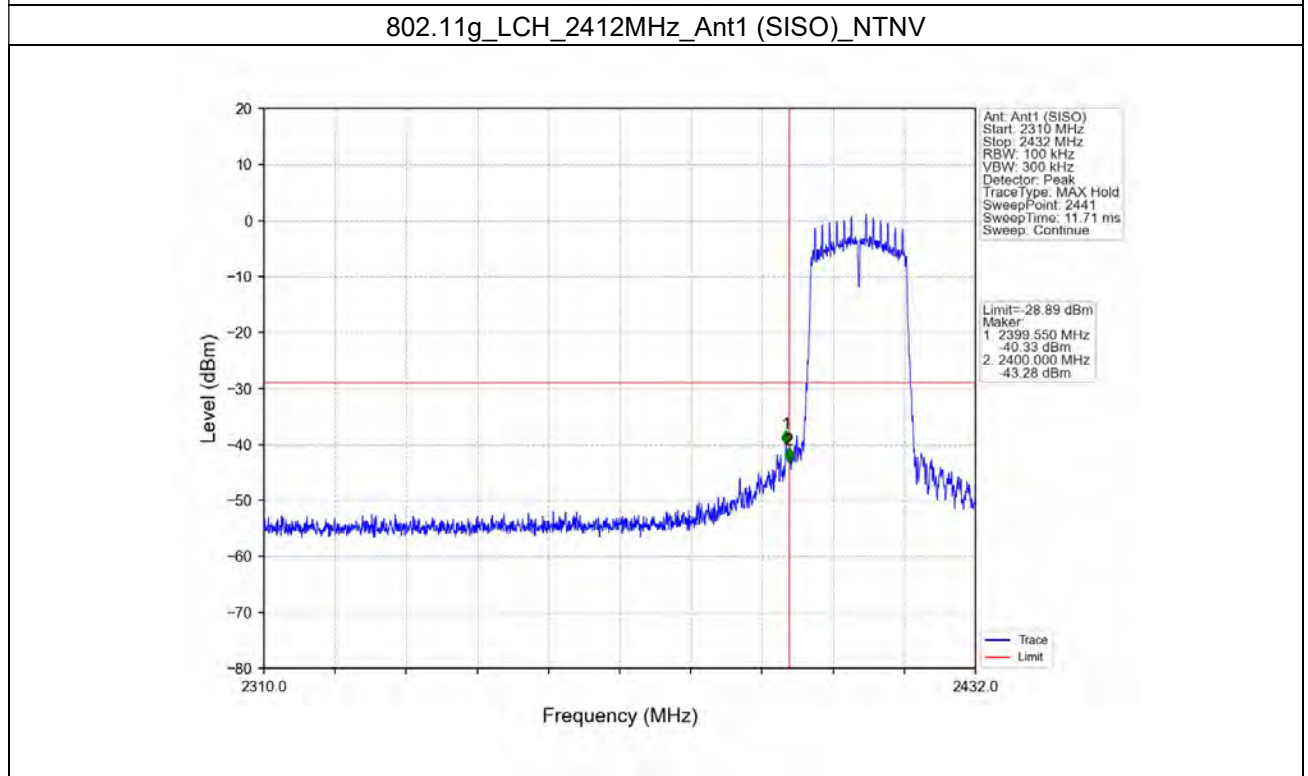
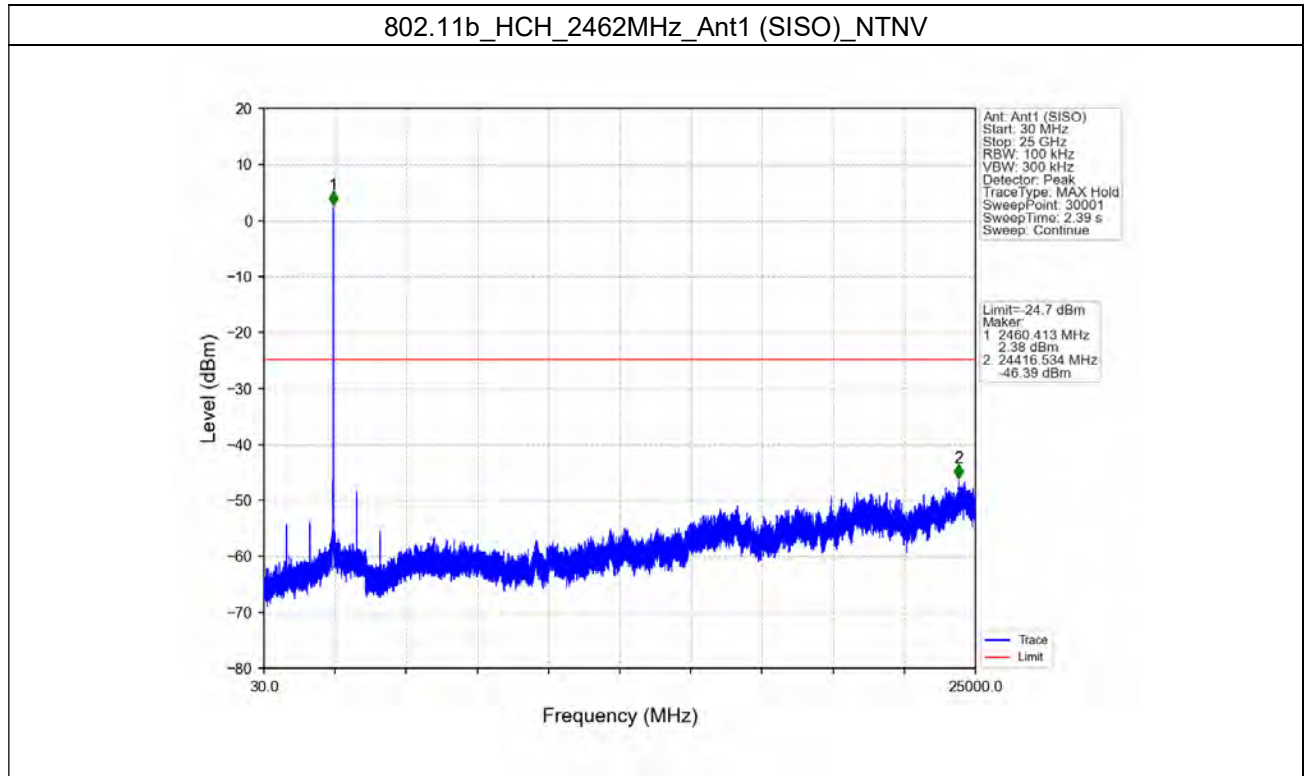


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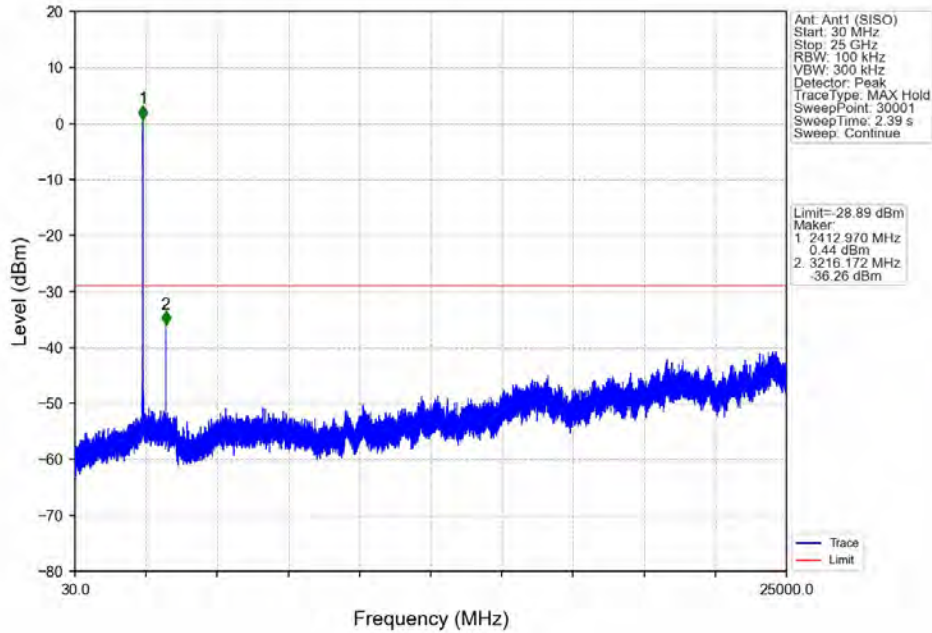


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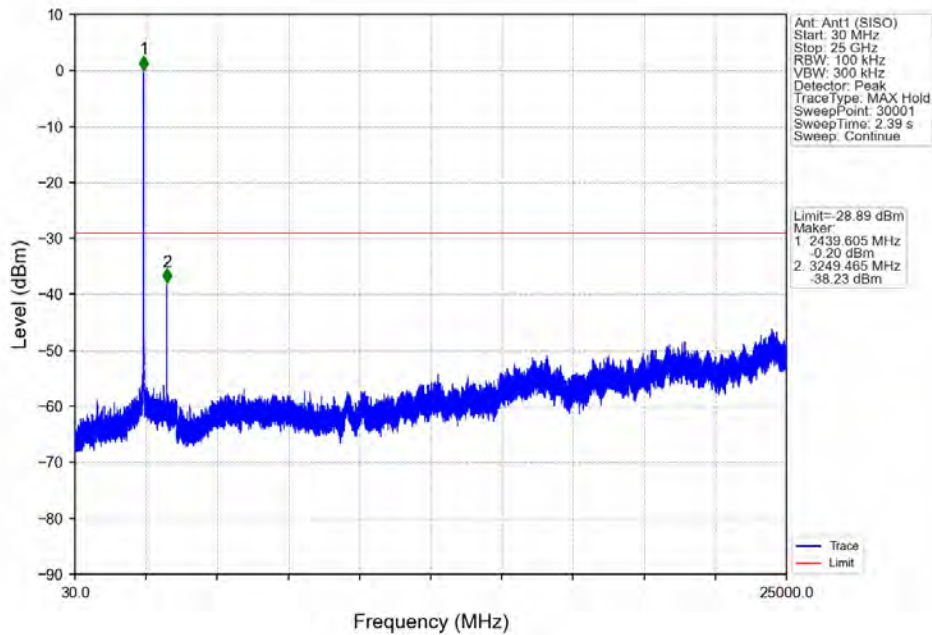


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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



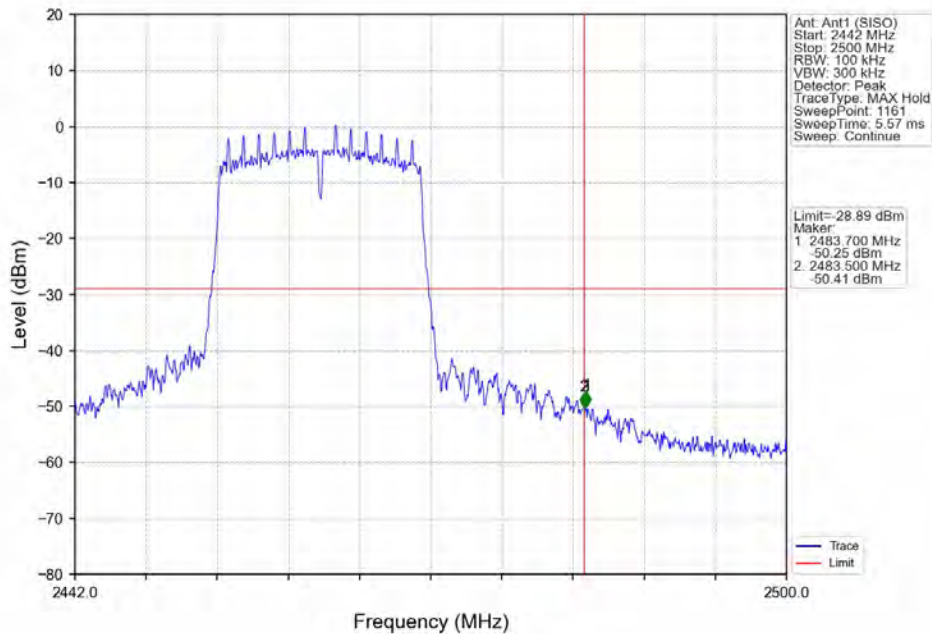
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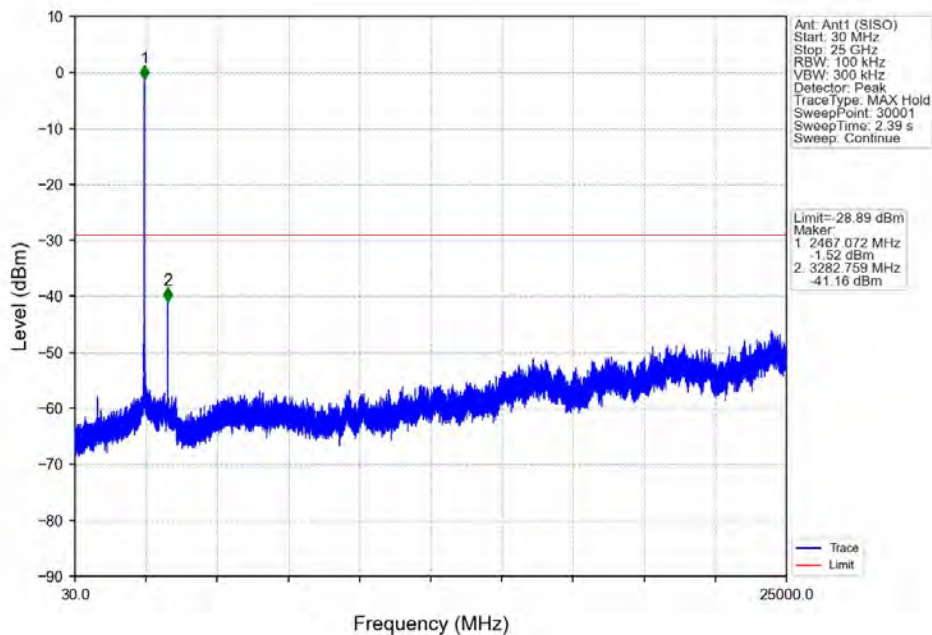
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



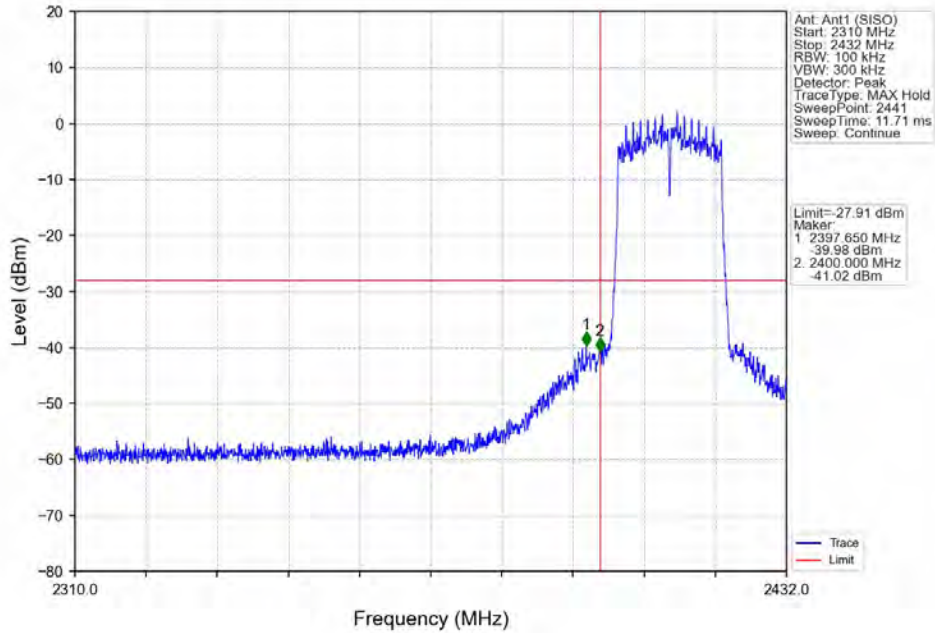
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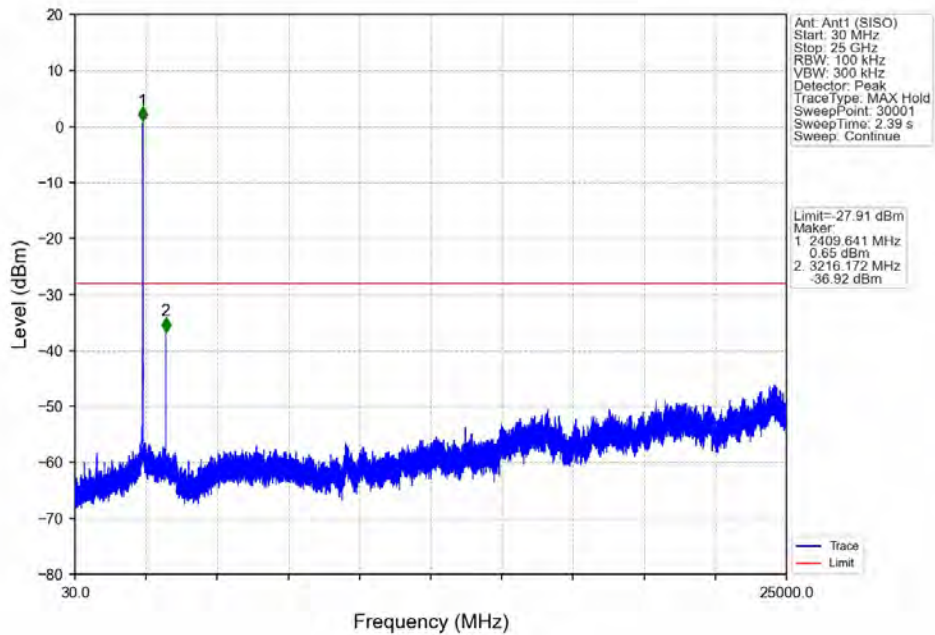
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



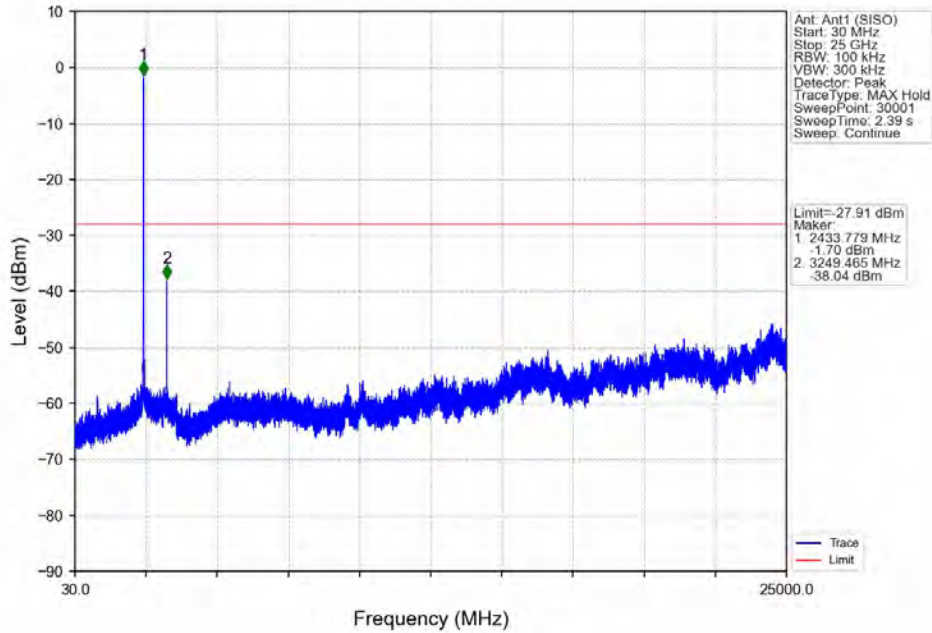
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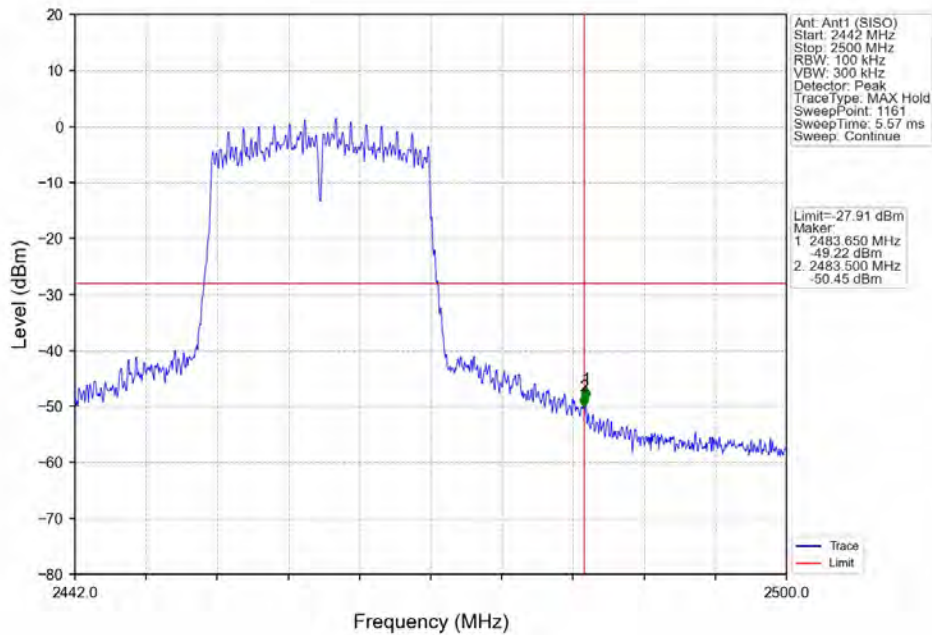
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



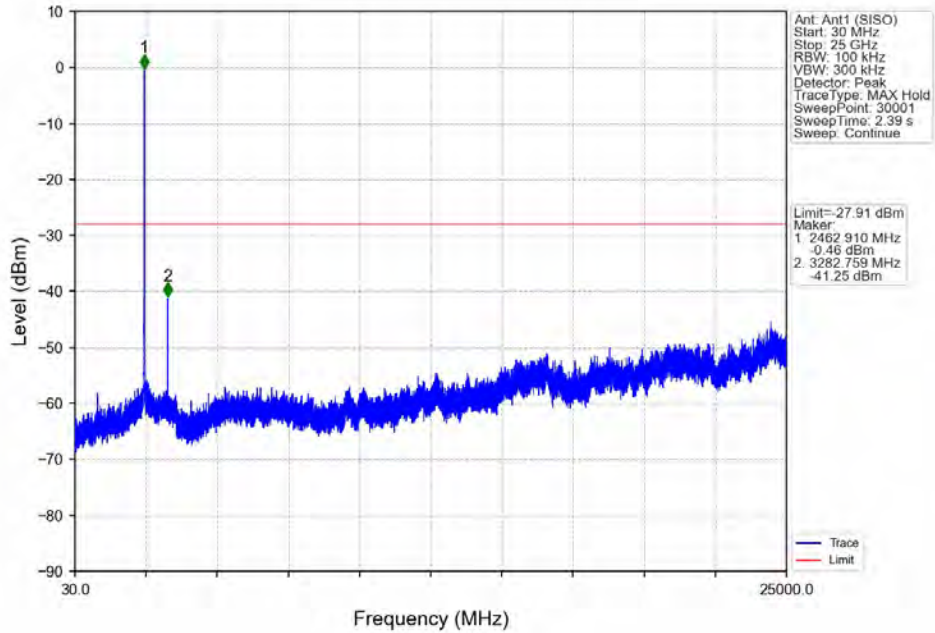
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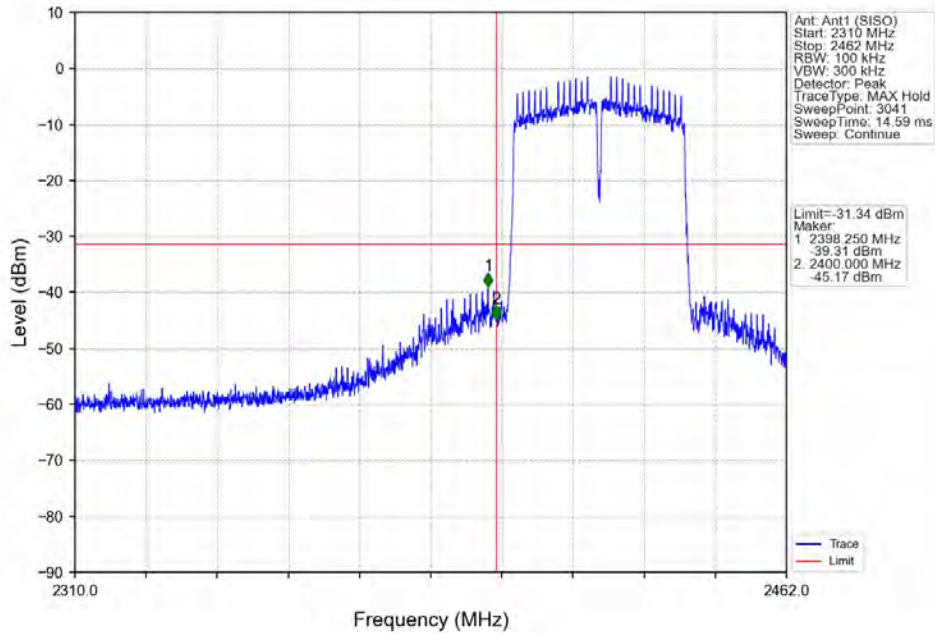
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

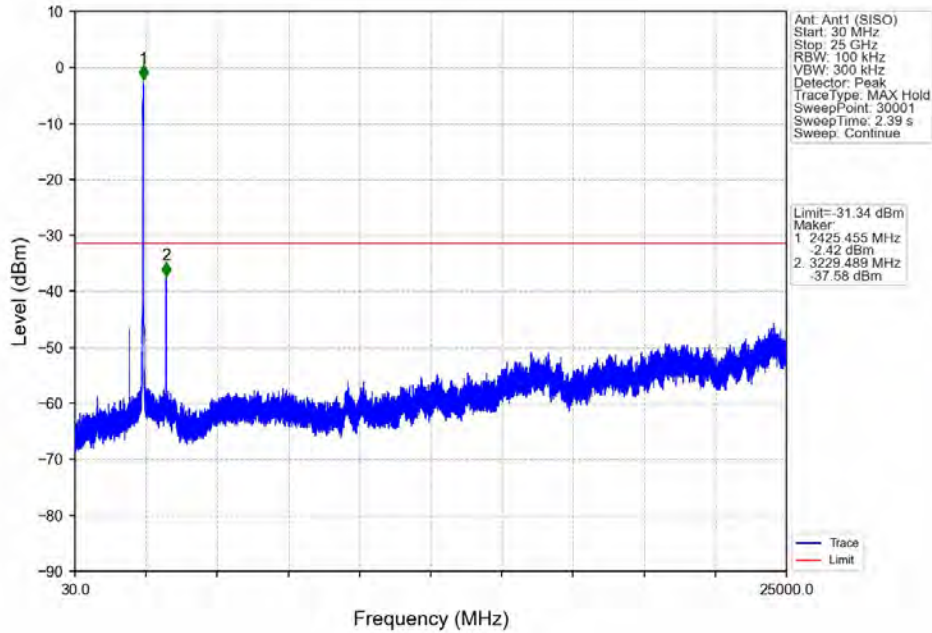


802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

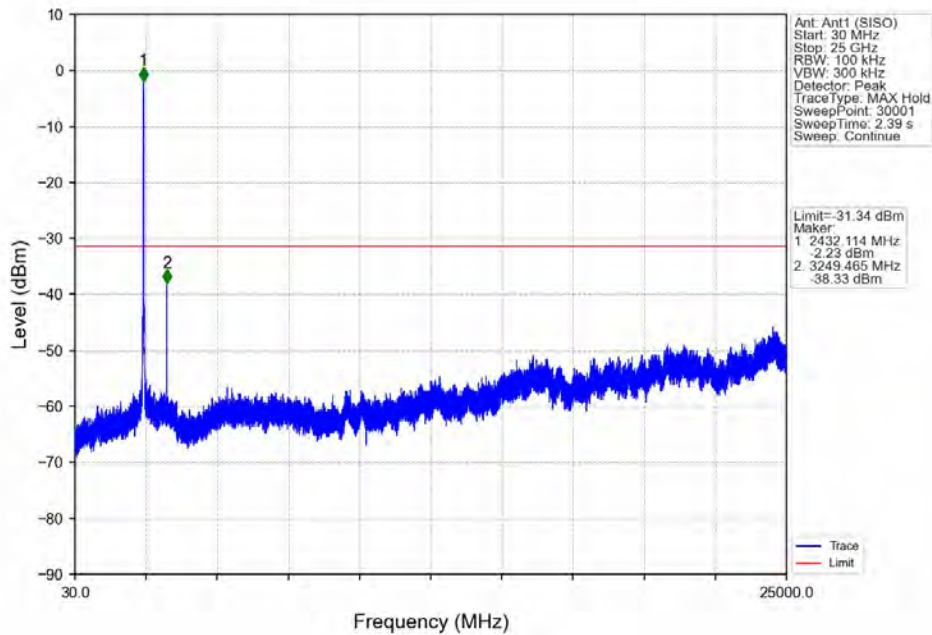


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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



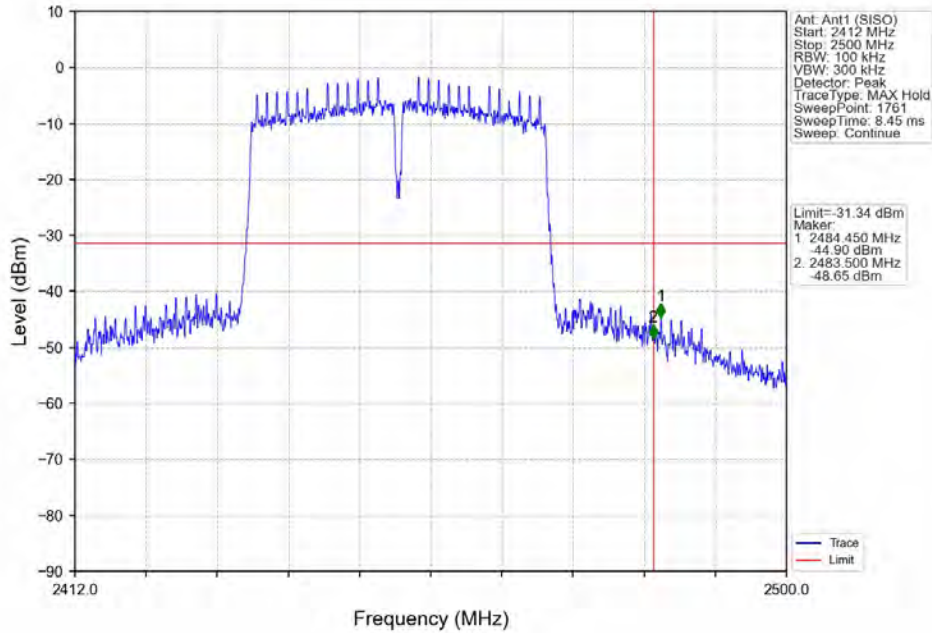
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



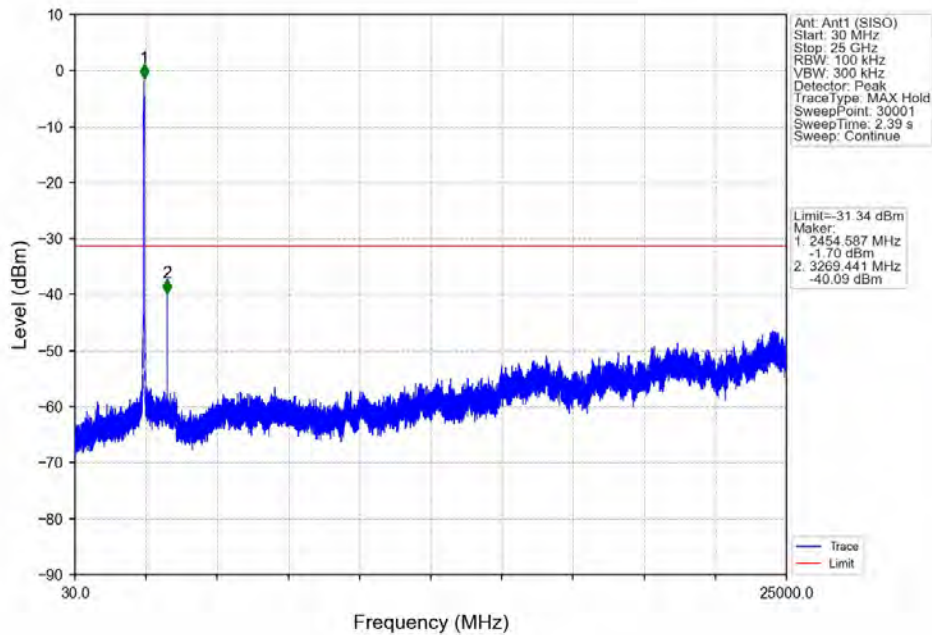
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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