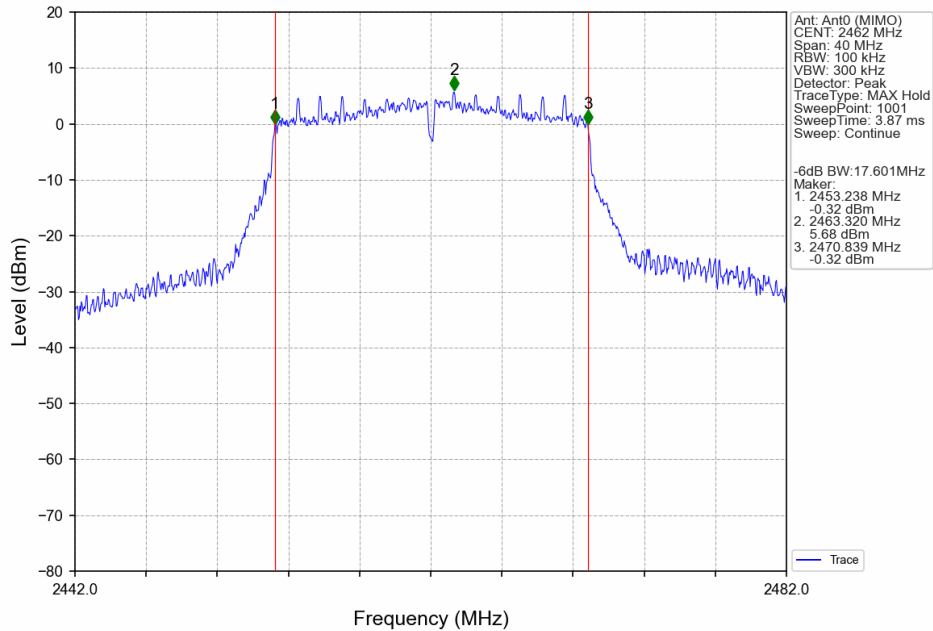
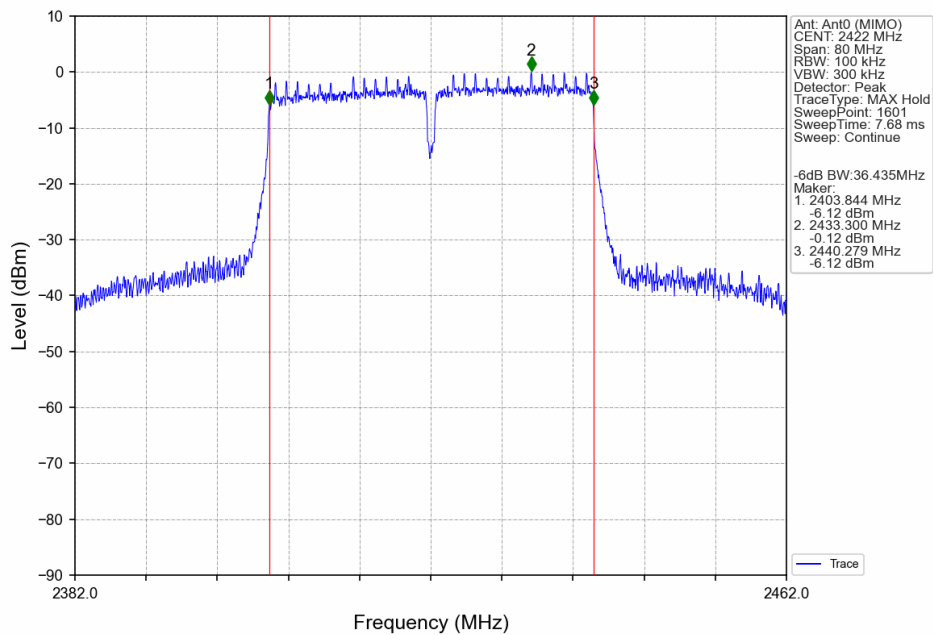


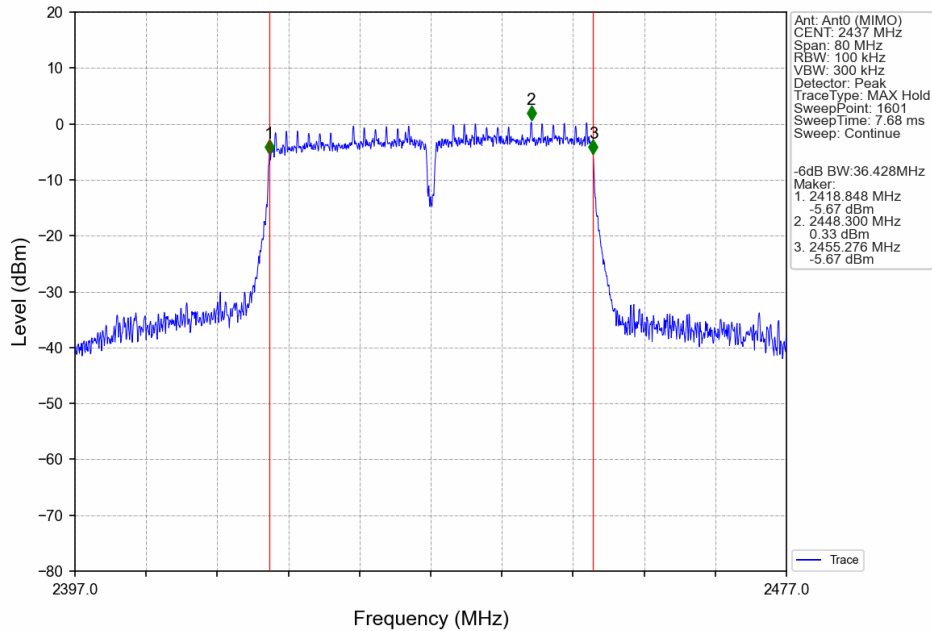
### 802.11n(HT20)\_HCH\_2462MHz\_Ant0 (MIMO)\_NTNV



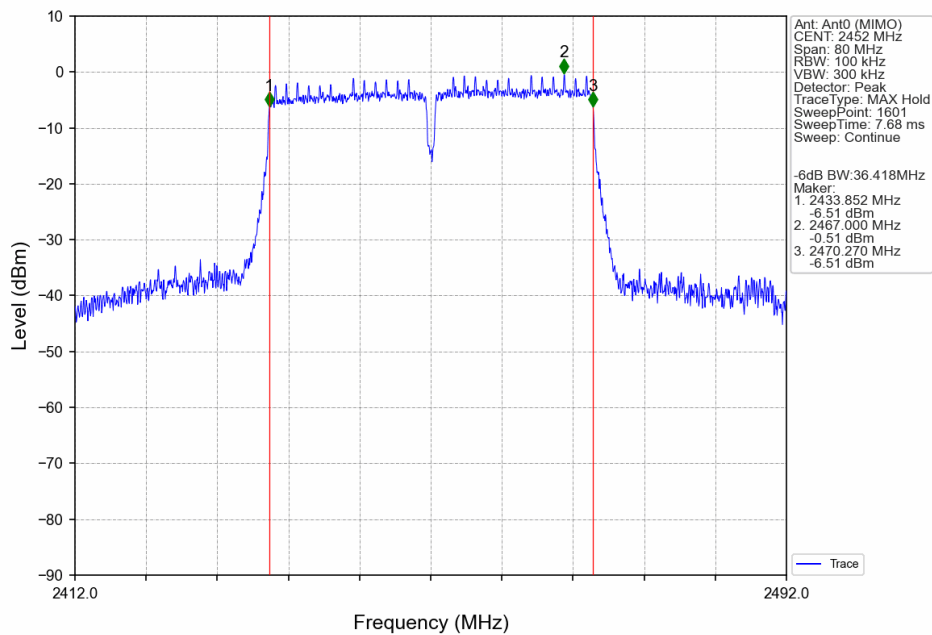
### 802.11n(HT40)\_LCH\_2422MHz\_Ant0 (MIMO)\_NTNV



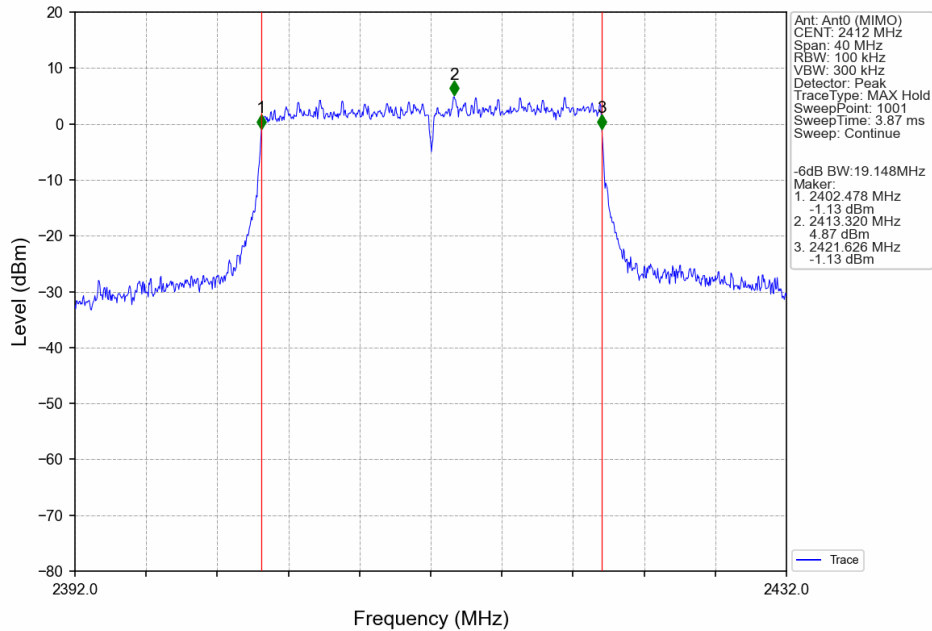
802.11n(HT40)\_MCH\_2437MHz\_Ant0 (MIMO)\_NTNV



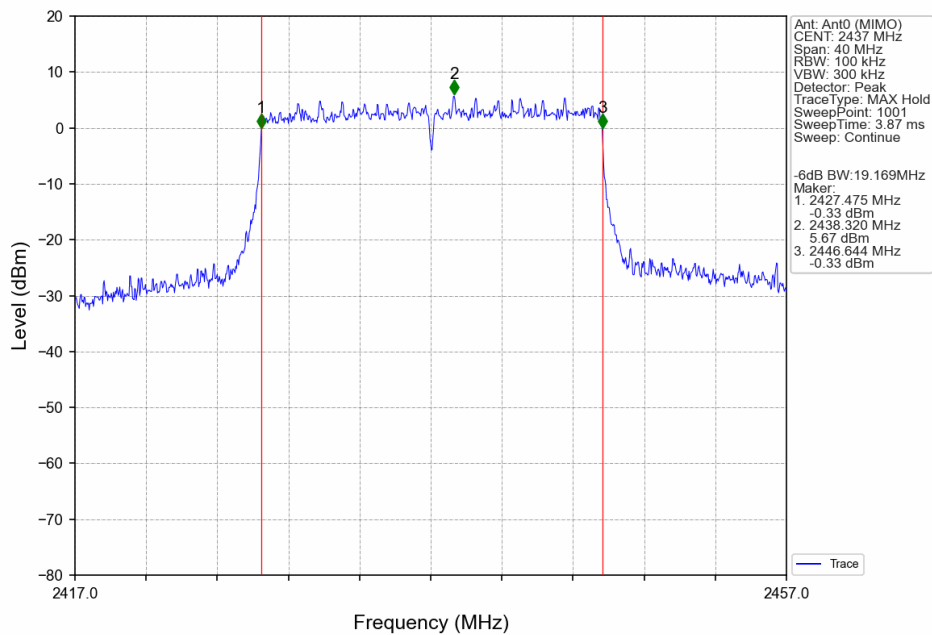
802.11n(HT40)\_HCH\_2452MHz\_Ant0 (MIMO)\_NTNV



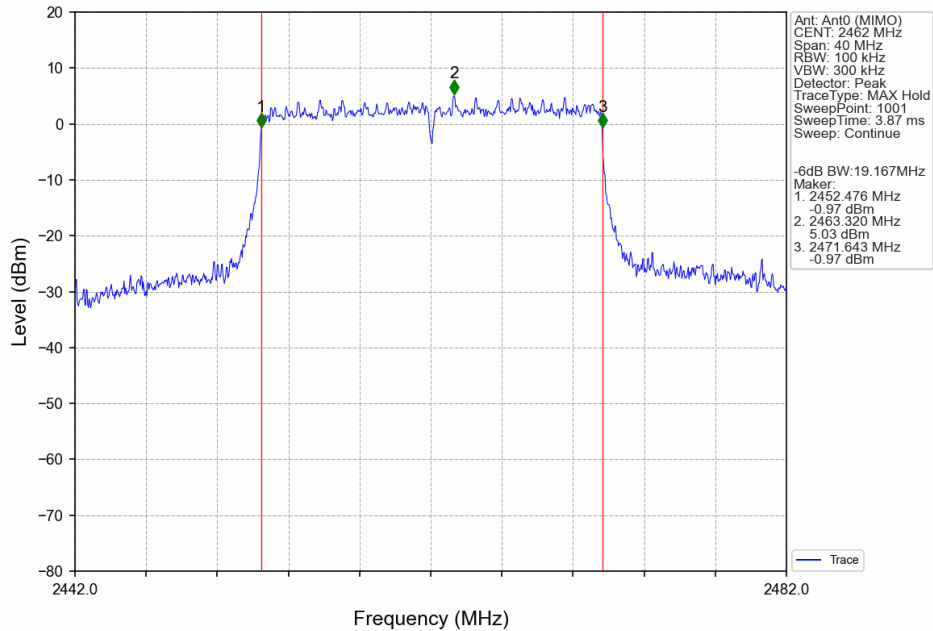
### 802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant0 (MIMO)\_NTNV



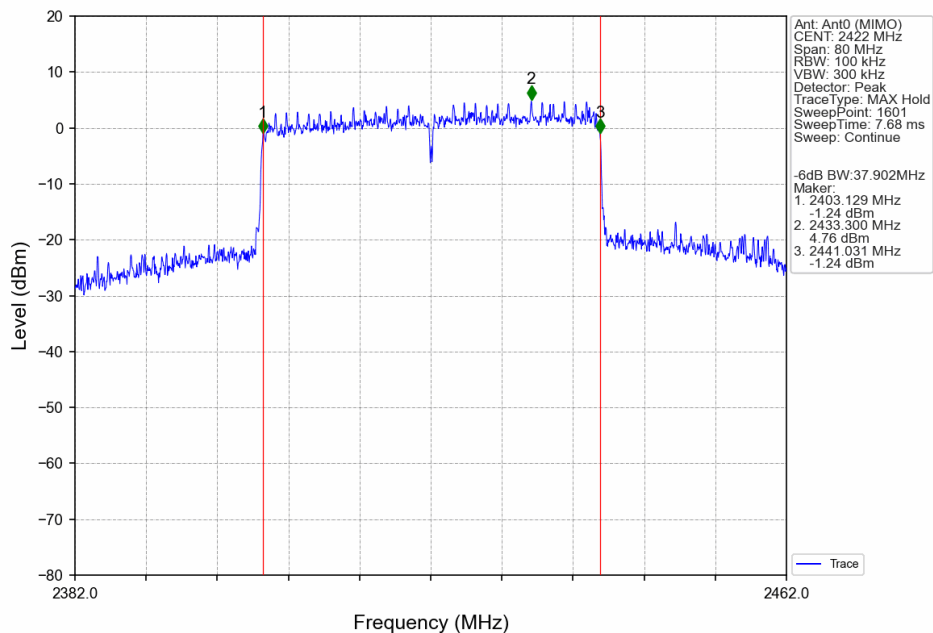
### 802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant0 (MIMO)\_NTNV



### 802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant0 (MIMO)\_NTNV

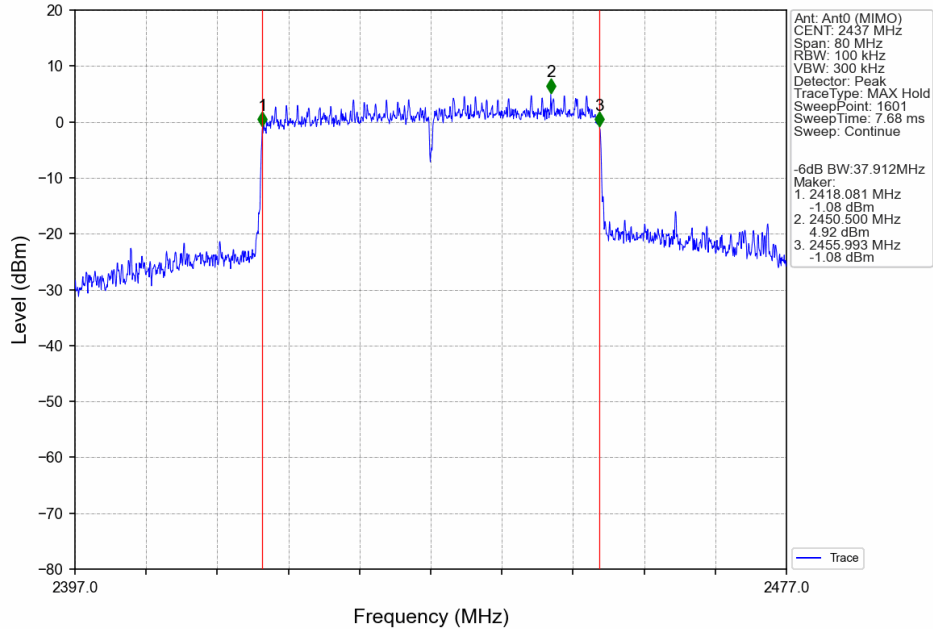


### 802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant0 (MIMO)\_NTNV

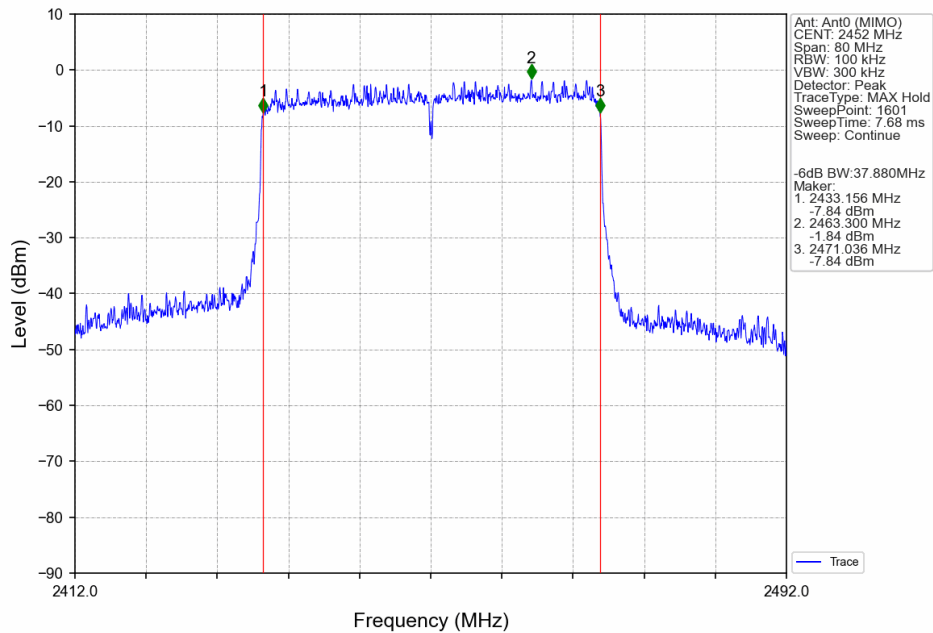




### 802.11ax(HEW40)\_MCH\_2437MHz\_RU484\_Left\_Ant0 (MIMO)\_NTNV



### 802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant0 (MIMO)\_NTNV



## 3. Maximum Conducted Output Power

### 3.1 Test Result

#### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT0	ANT1	MIMO	Limit	
802.11b	SISO	2412	/	/	17.45	17.09	/	<=30	Pass
		2437	/	/	18.22	17.61	/	<=30	Pass
		2462	/	/	18.04	17.57	/	<=30	Pass
802.11g	SISO	2412	/	/	15.16	15.37	/	<=30	Pass
		2437	/	/	16.63	15.18	/	<=30	Pass
		2462	/	/	16.33	15.98	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	17.18	16.12	19.69	<=30	Pass
		2437	/	/	17.50	16.34	19.97	<=30	Pass
		2462	/	/	17.09	16.27	19.71	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	13.64	12.43	16.09	<=30	Pass
		2437	/	/	17.86	16.24	20.14	<=30	Pass
		2452	/	/	12.42	10.86	14.72	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	16.57	15.98	19.30	<=30	Pass
		2437	RU242	Left	17.00	16.31	19.68	<=30	Pass
		2462	RU242	Left	16.65	16.26	19.47	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	13.52	12.31	15.97	<=30	Pass
		2437	RU484	Left	17.74	16.37	20.12	<=30	Pass
		2452	RU484	Left	12.85	11.27	15.14	<=30	Pass

Note1: Antenna Gain: Ant0: 2.14dBi; Ant1: 2.07dBi;

Note2: Directional Gain: 5.15dBi



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## 4. Maximum Power Spectral Density

### 4.1 Test Result

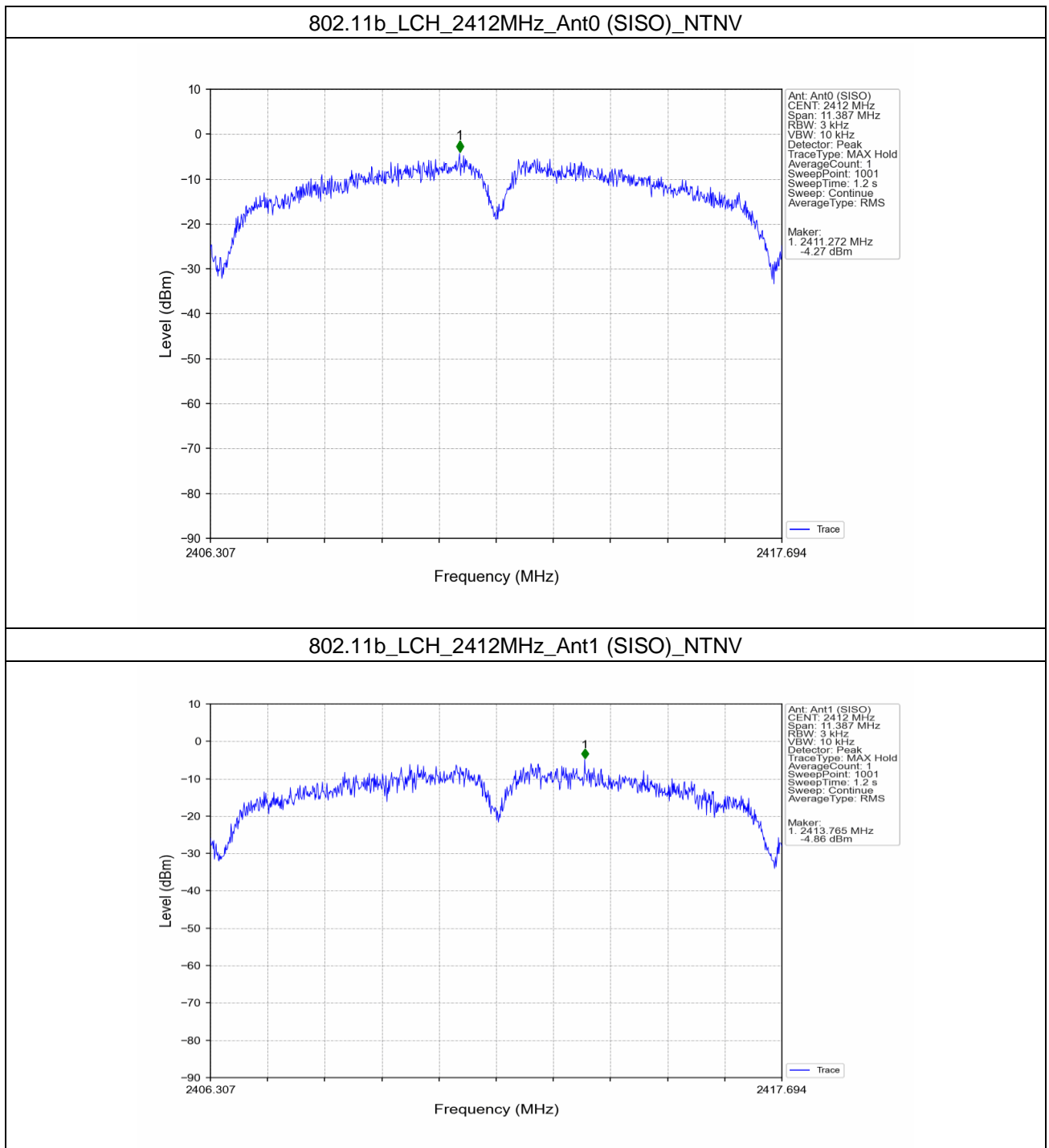
#### 4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT0	ANT1	MIMO	Limit	
802.11b	SISO	2412	/	/	-4.27	-4.86	/	<=8	Pass
		2437	/	/	-3.76	-4.88	/	<=8	Pass
		2462	/	/	-4.58	-4.96	/	<=8	Pass
802.11g	SISO	2412	/	/	-11.04	-10.07	/	<=8	Pass
		2437	/	/	-9.08	-10.95	/	<=8	Pass
		2462	/	/	-9.78	-9.75	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-9.37	-10.49	-7.65	<=8	Pass
		2437	/	/	-7.16	-9.35	-5.64	<=8	Pass
		2462	/	/	-8.27	-9.37	-6.65	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-14.38	-16.31	-13.35	<=8	Pass
		2437	/	/	-10.94	-11.42	-9.30	<=8	Pass
		2452	/	/	-15.59	-16.58	-14.53	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	-11.40	-12.59	-9.54	<=8	Pass
		2437	RU242	Left	-11.78	-10.51	-8.26	<=8	Pass
		2462	RU242	Left	-10.90	-11.47	-8.89	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	-17.18	-17.71	-14.58	<=8	Pass
		2437	RU484	Left	-13.04	-13.48	-10.25	<=8	Pass
		2452	RU484	Left	-18.85	-19.11	-16.30	<=8	Pass
Note1: Antenna Gain: Ant0: 2.14dBi; Ant1: 2.07dBi; Note2: Directional Gain: 5.15dBi									



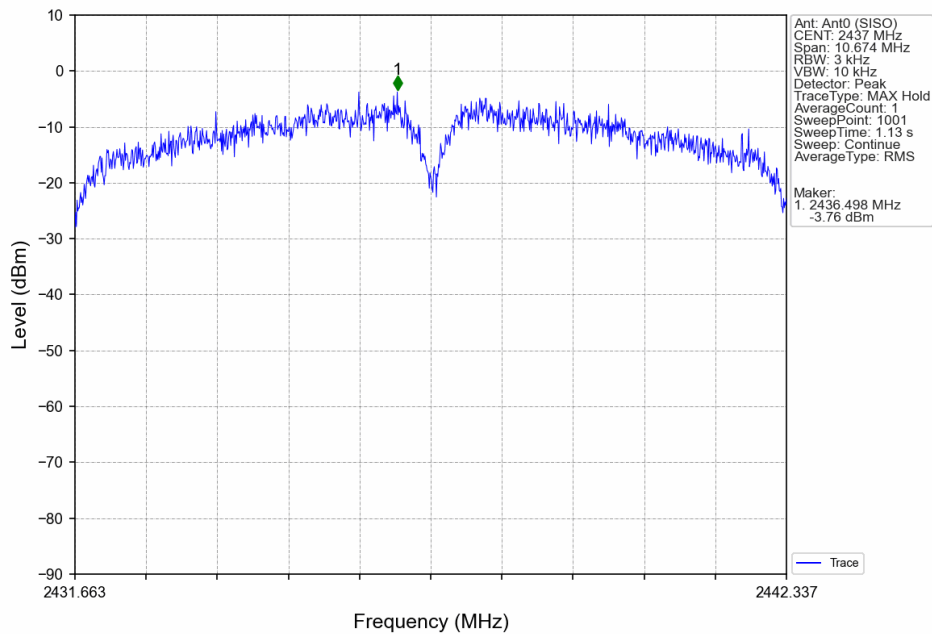
### 4.2 Test Graph

#### 4.2.1 PSD

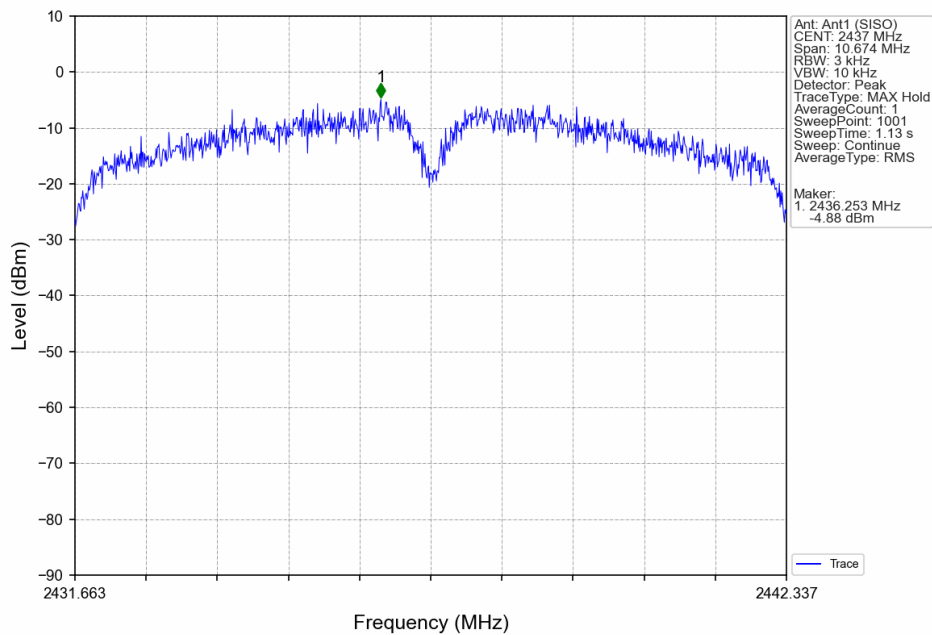




### 802.11b\_MCH\_2437MHz\_Ant0 (SISO)\_NTNV



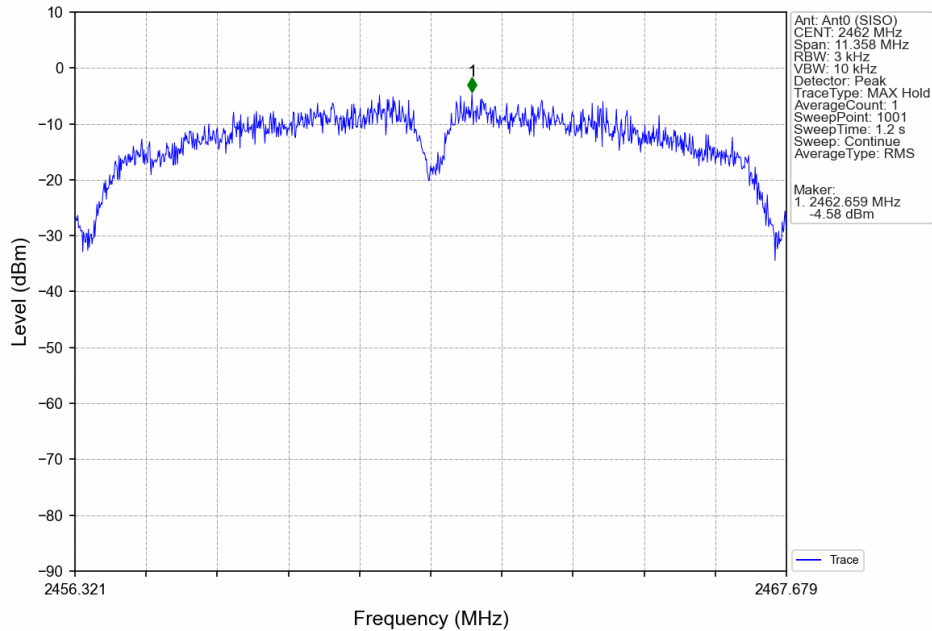
### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



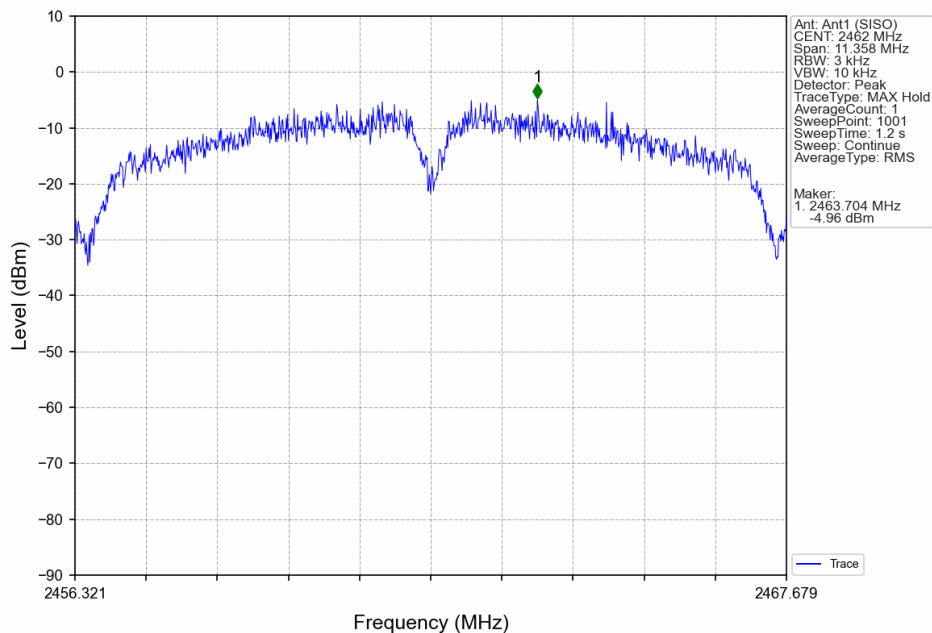
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802.11b\_HCH\_2462MHz\_Ant0 (SISO)\_NTNV



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



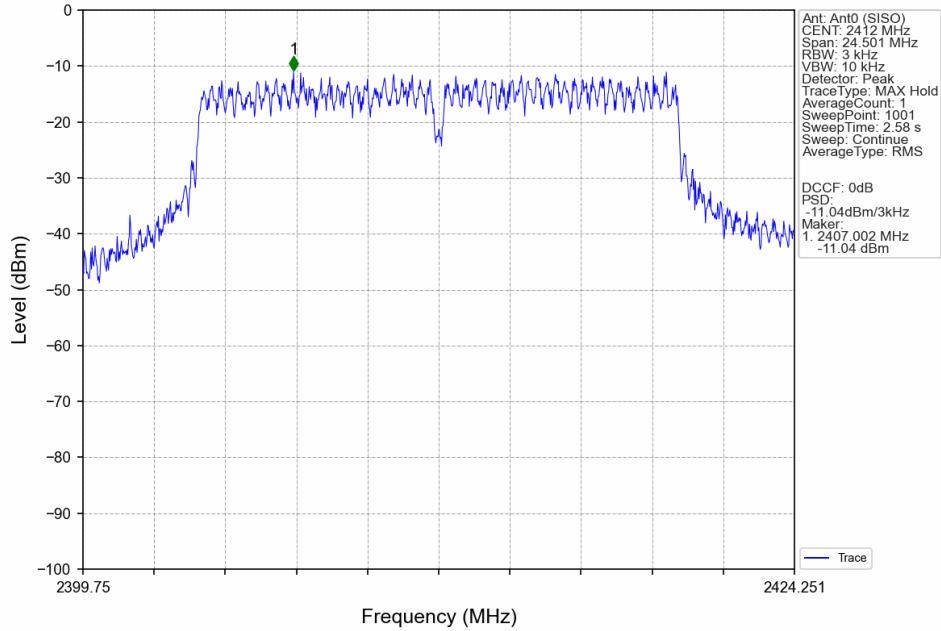
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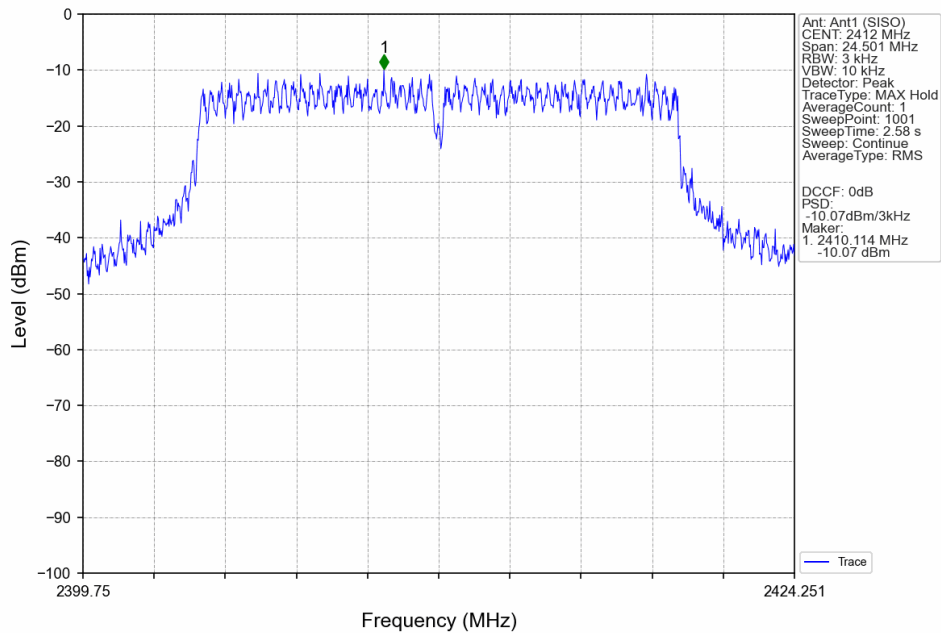
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802.11g\_LCH\_2412MHz\_Ant0 (SISO)\_NTNV



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



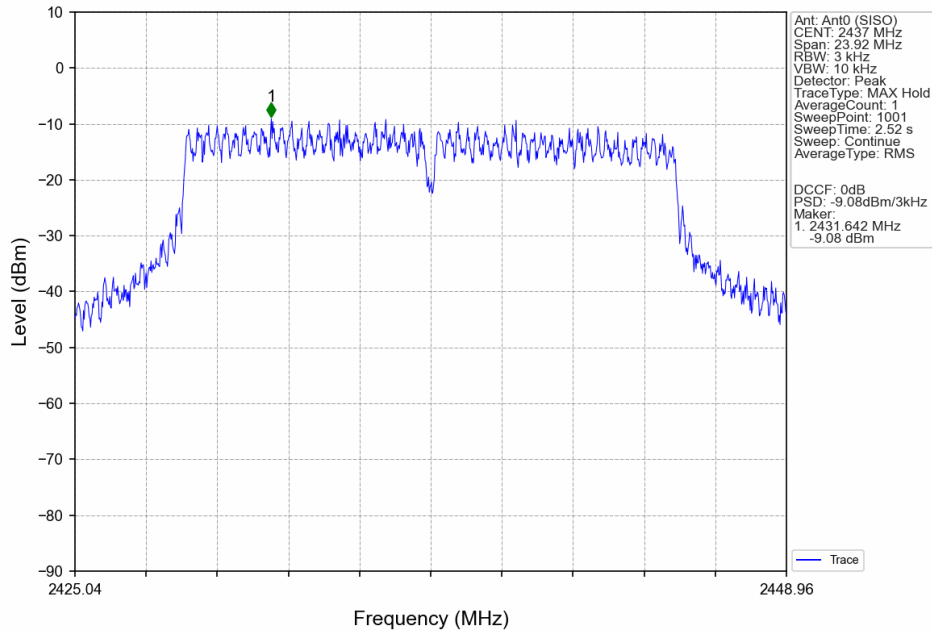
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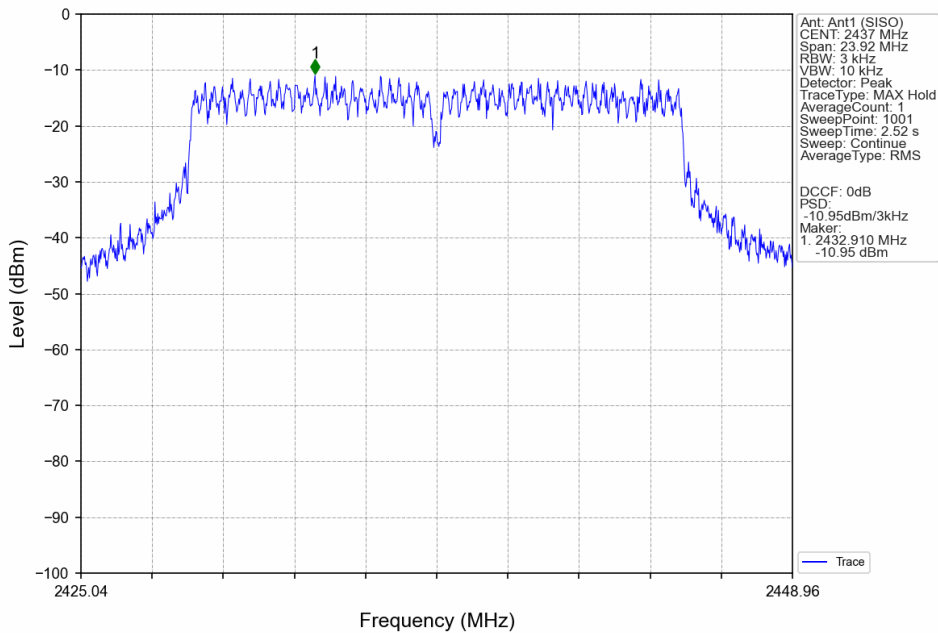
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802.11g\_MCH\_2437MHz\_Ant0 (SISO)\_NTNV



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



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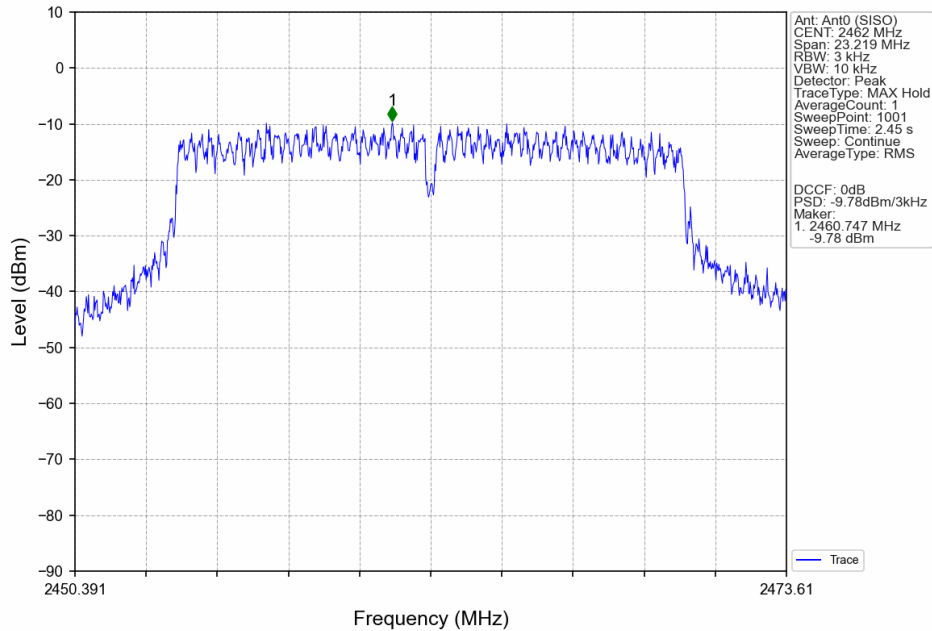
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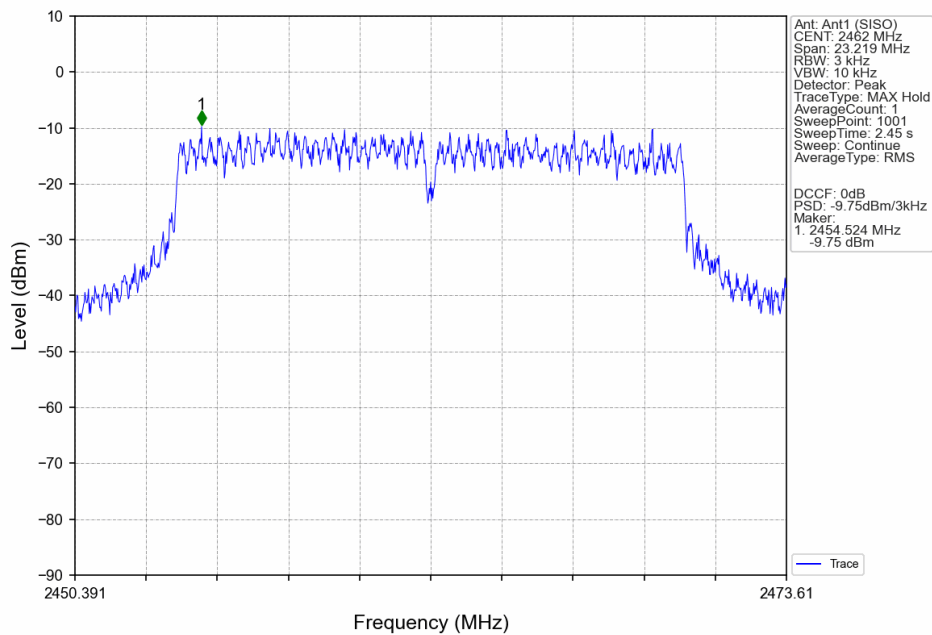
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802.11g\_HCH\_2462MHz\_Ant0 (SISO)\_NTNV



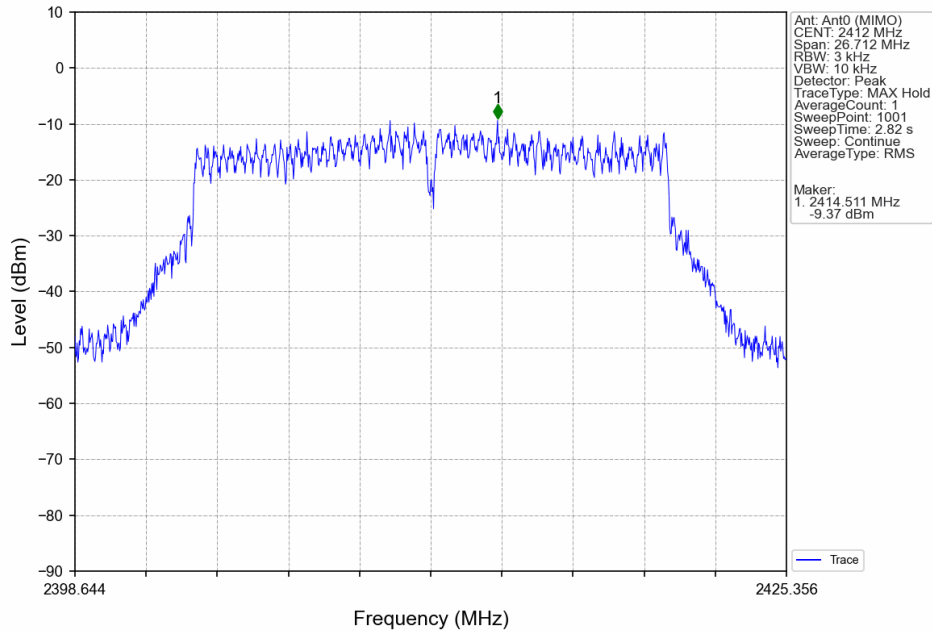
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



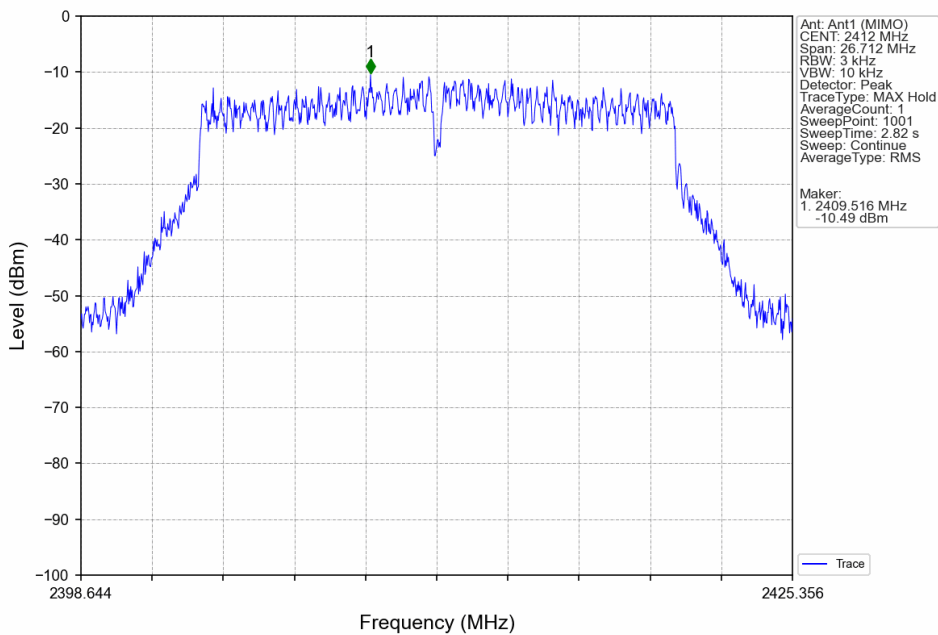
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802.11n(HT20)\_LCH\_2412MHz\_Ant0 (MIMO)\_NTNV



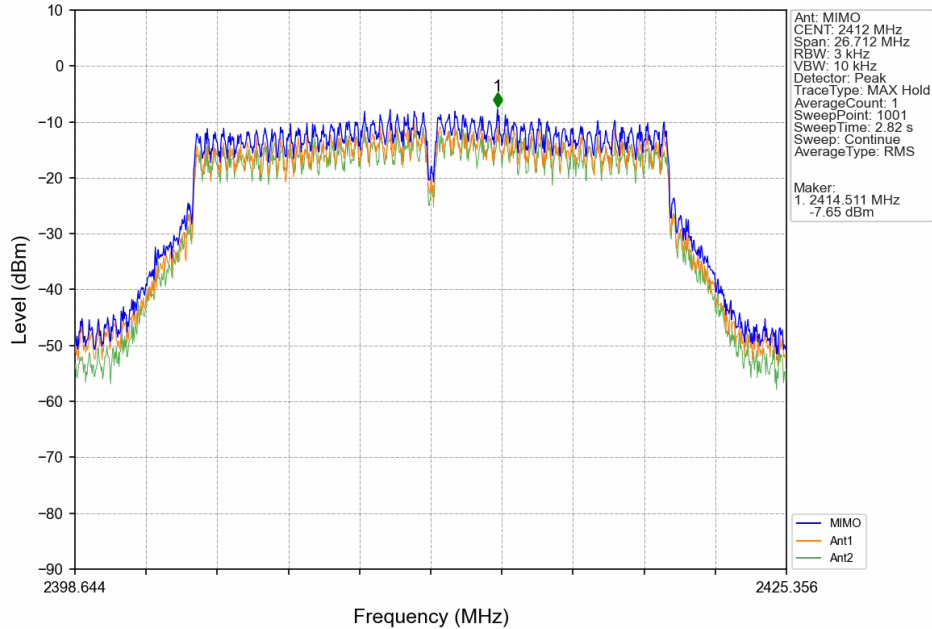
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



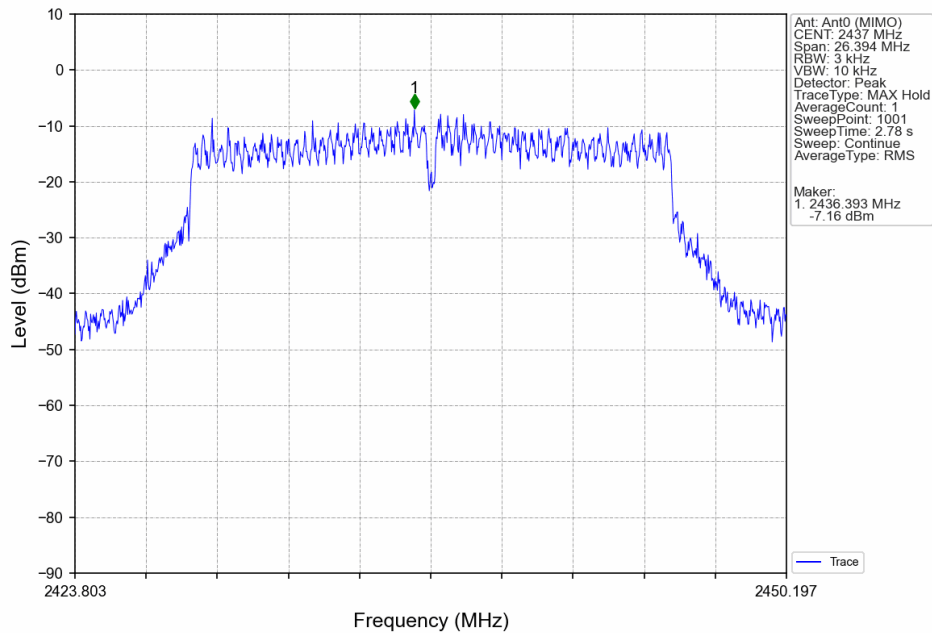
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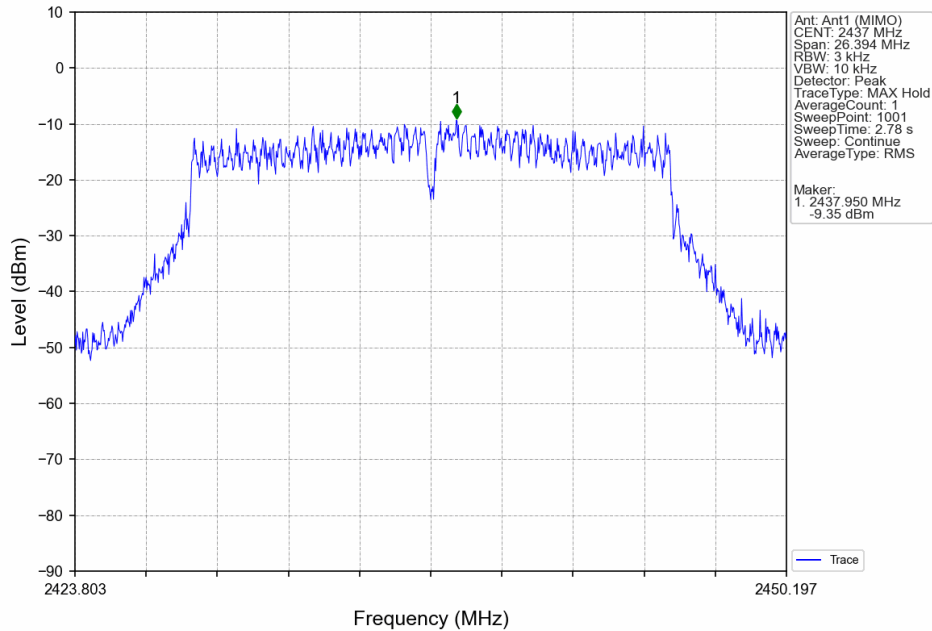
802.11n(HT20)\_LCH\_2412MHz\_MIMO\_NTNV



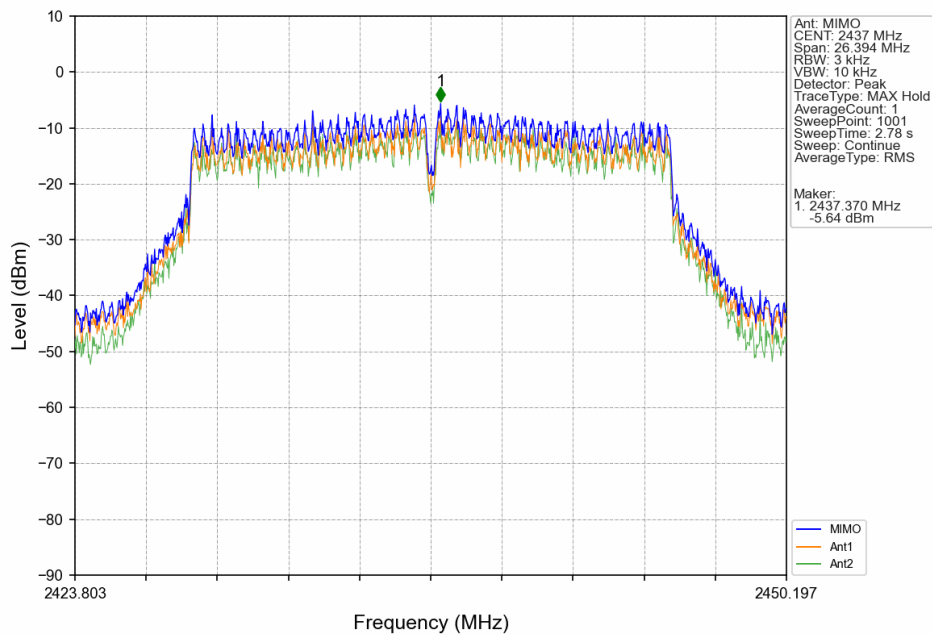
802.11n(HT20)\_MCH\_2437MHz\_Ant0 (MIMO)\_NTNV



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

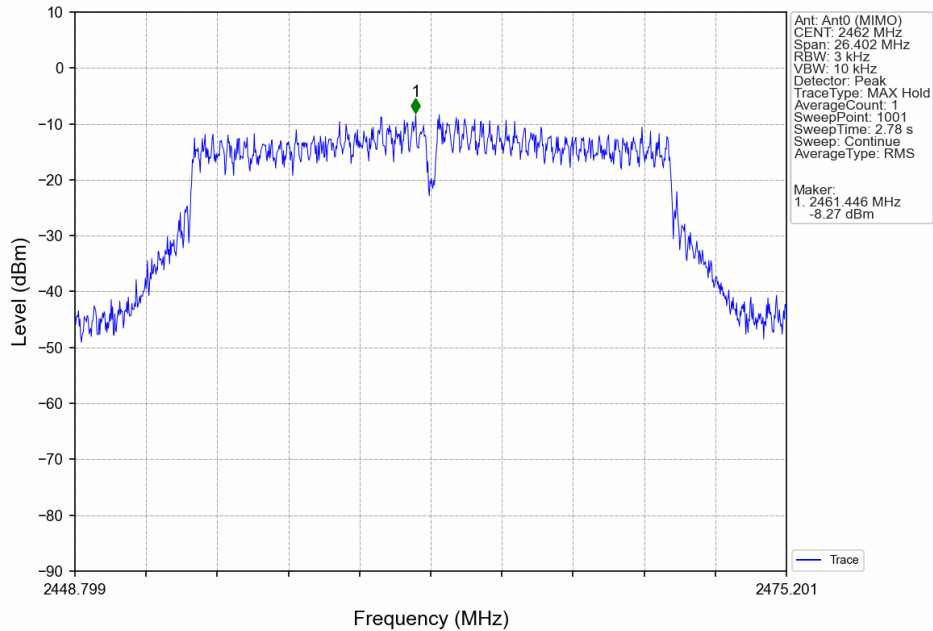


802.11n(HT20)\_MCH\_2437MHz\_MIMO\_NTNV

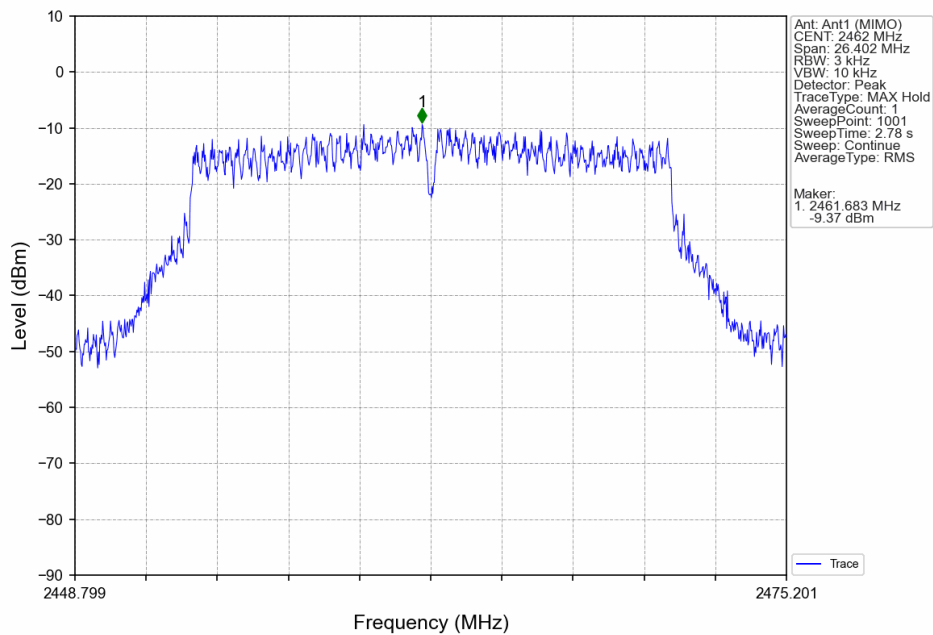




802.11n(HT20)\_HCH\_2462MHz\_Ant0 (MIMO)\_NTNV



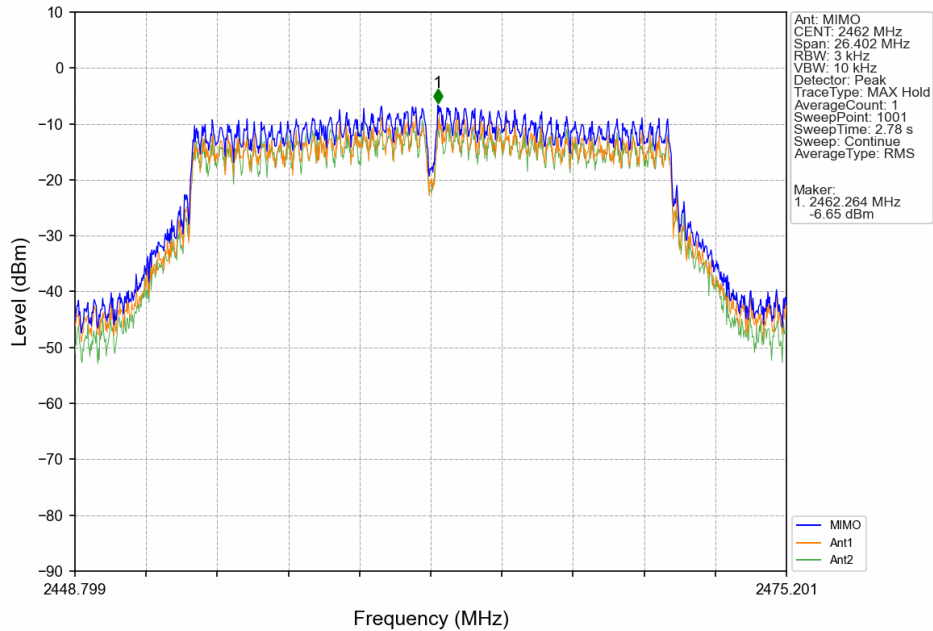
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



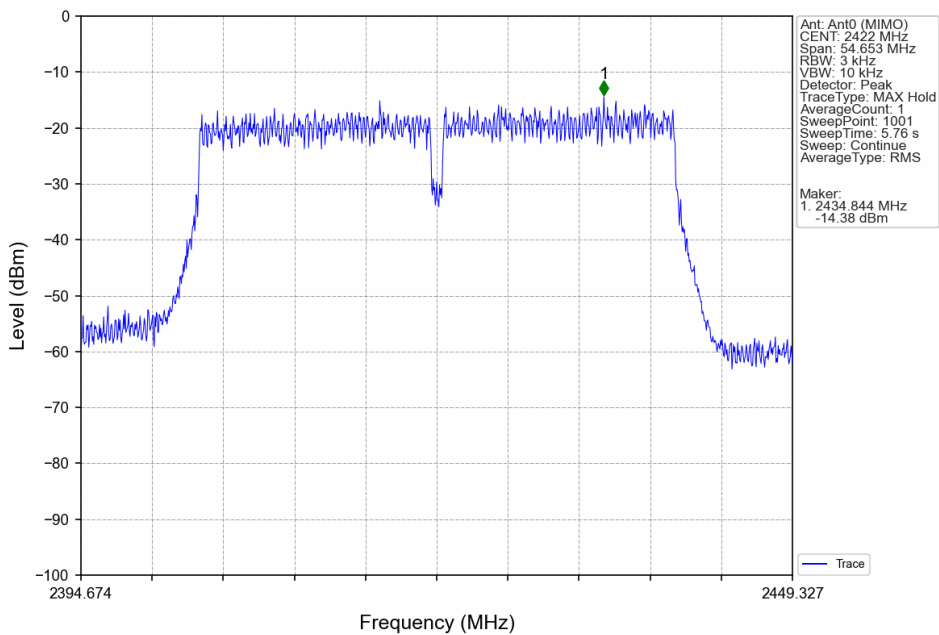
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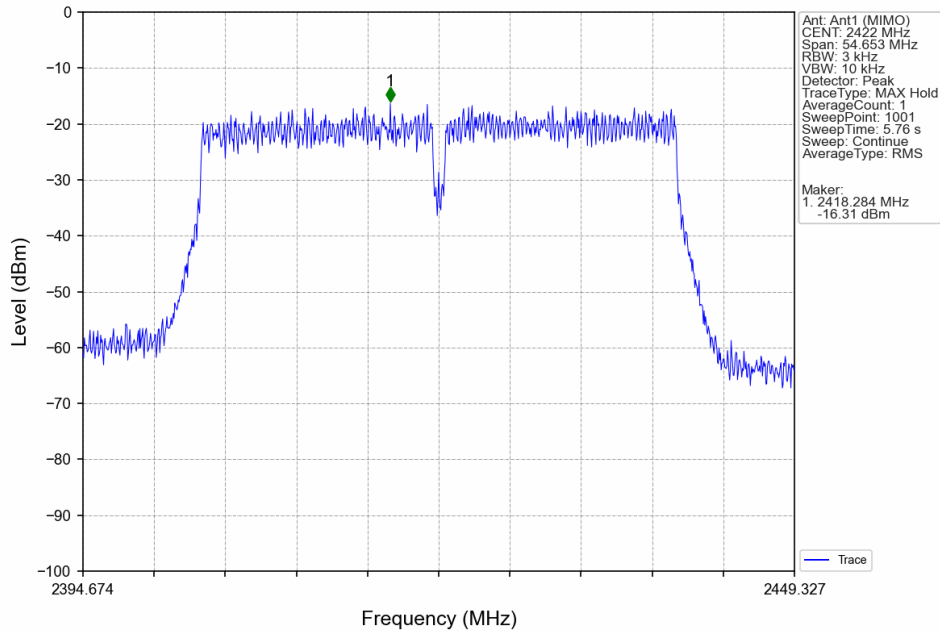
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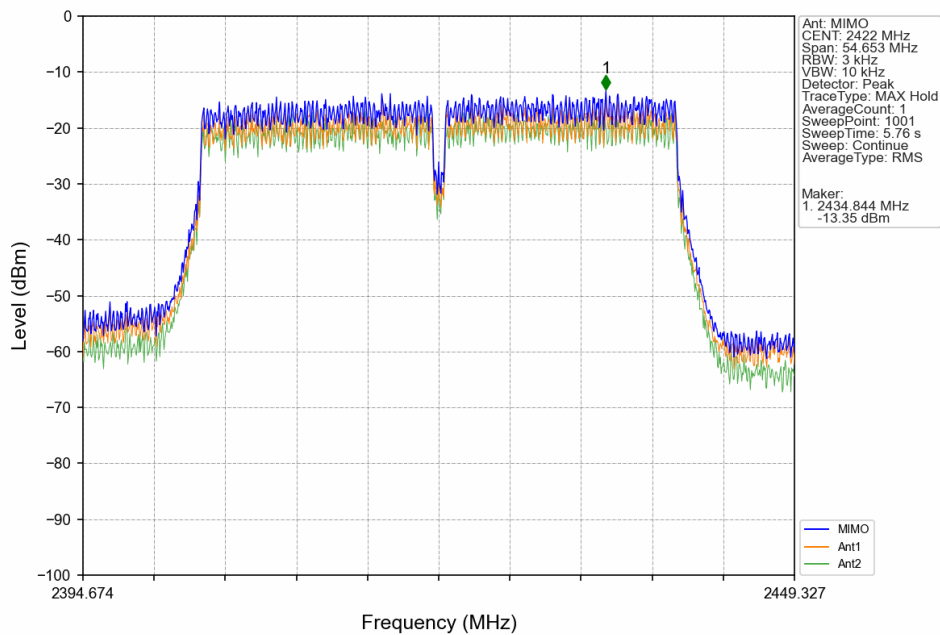
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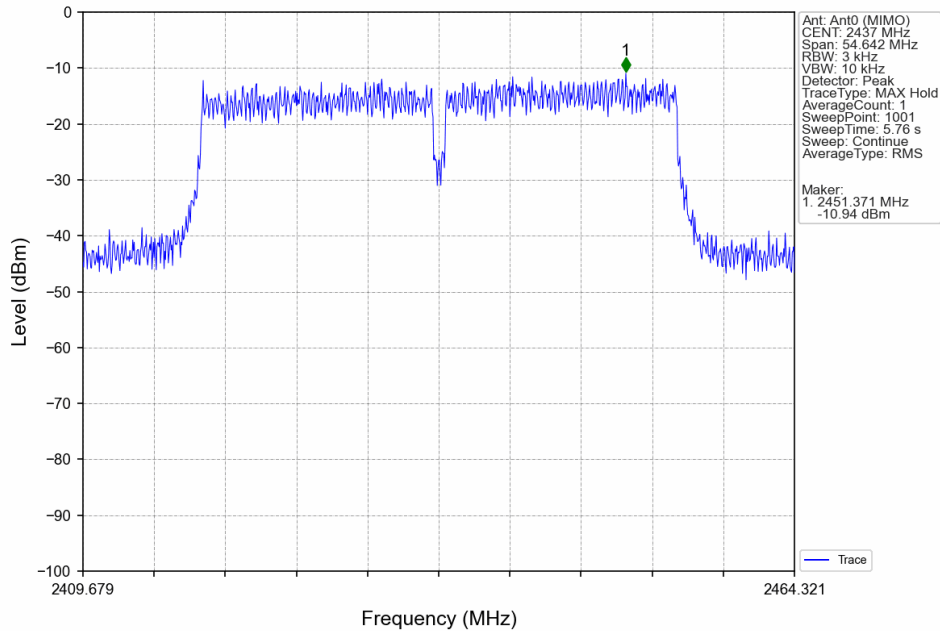
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV



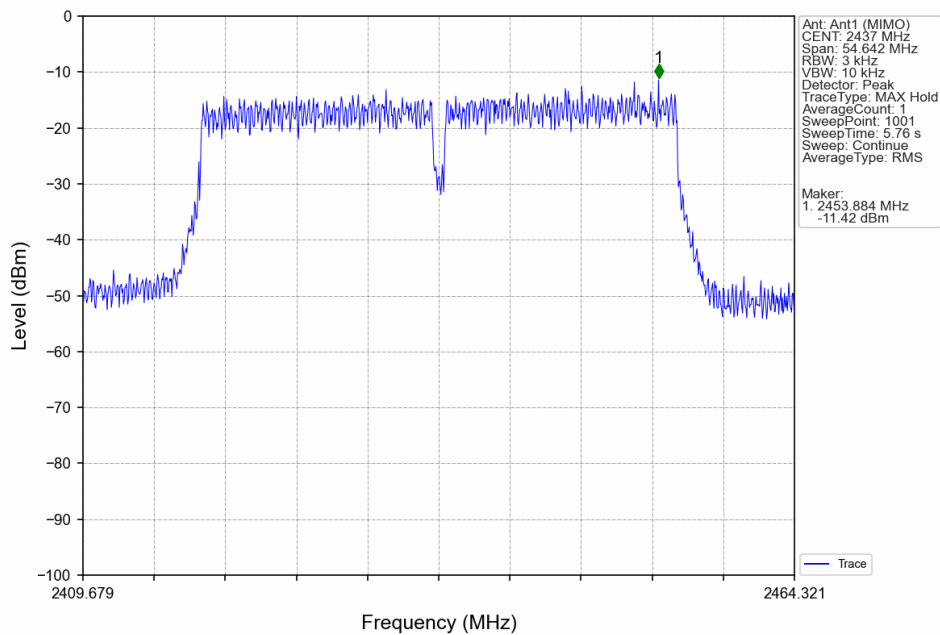
802.11n(HT40)\_LCH\_2422MHz\_MIMO\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant0 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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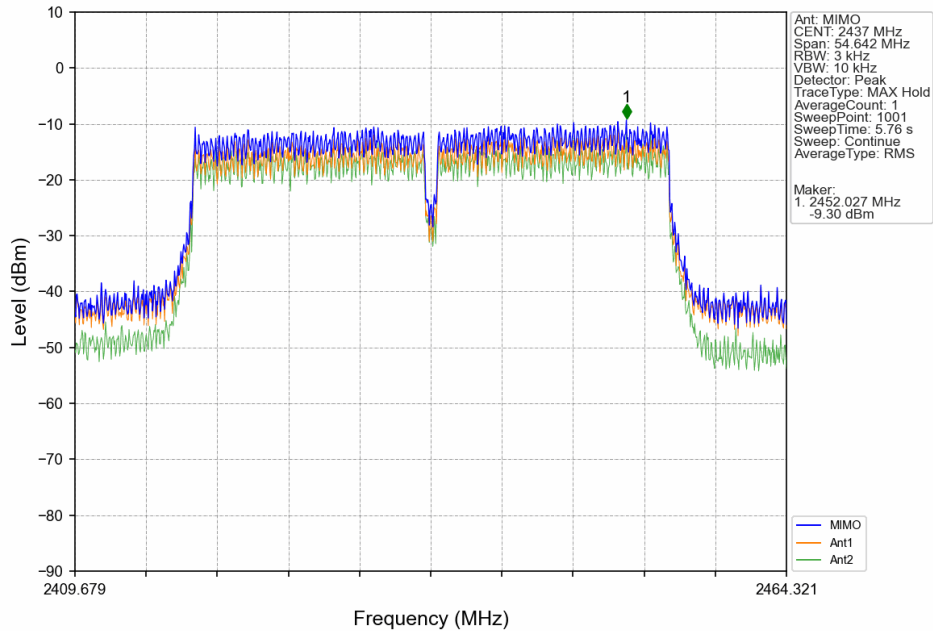
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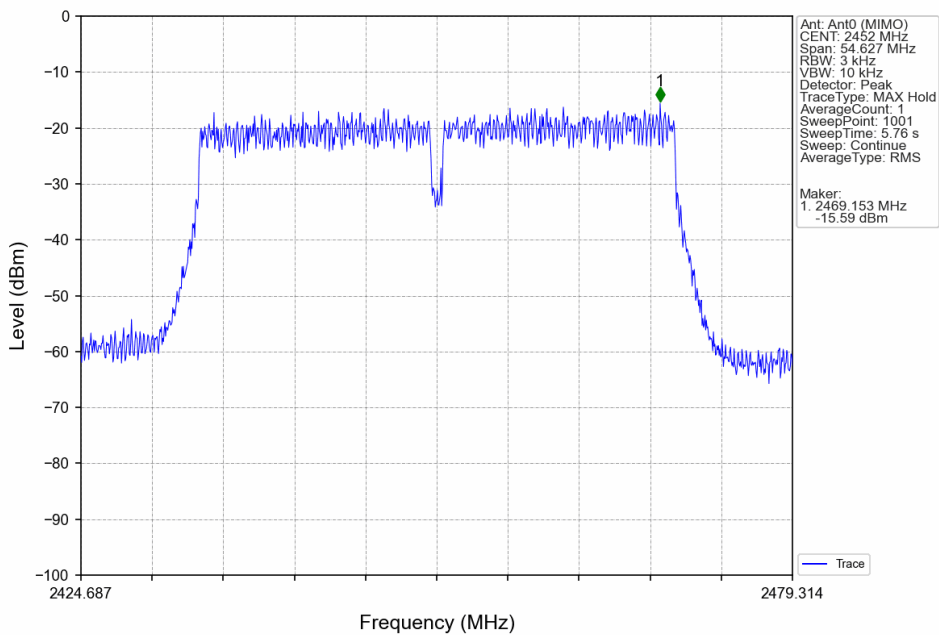
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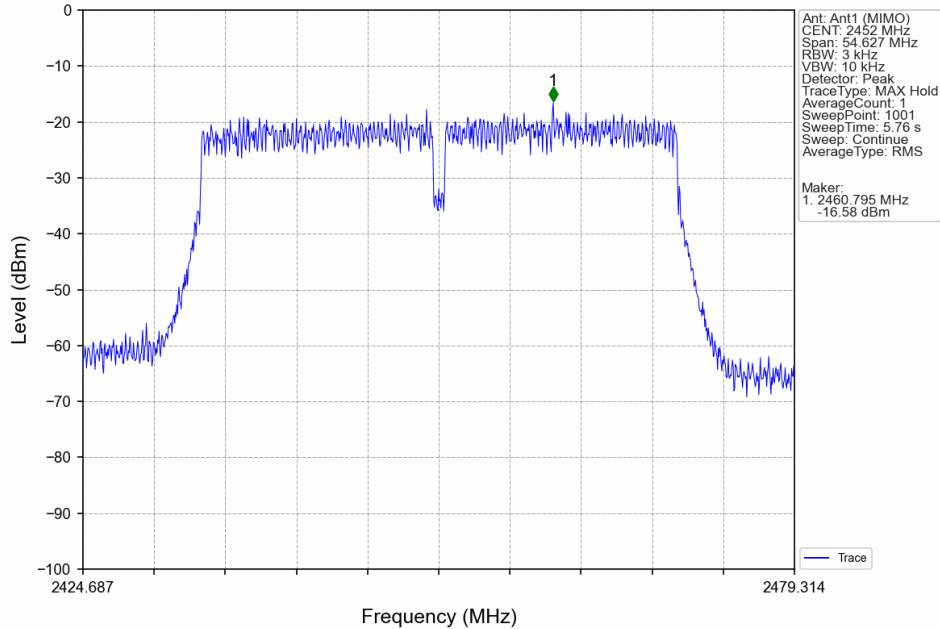
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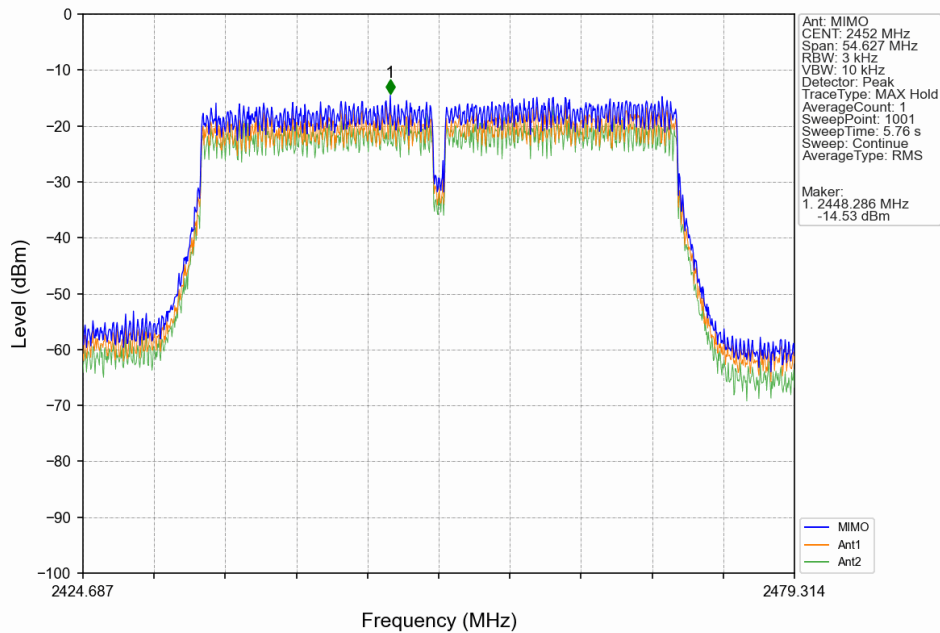
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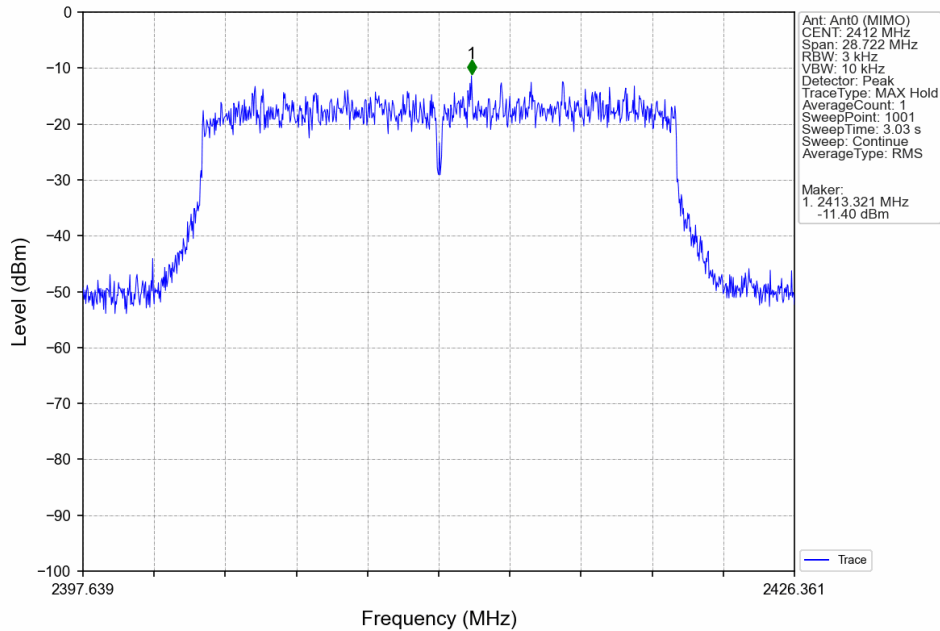
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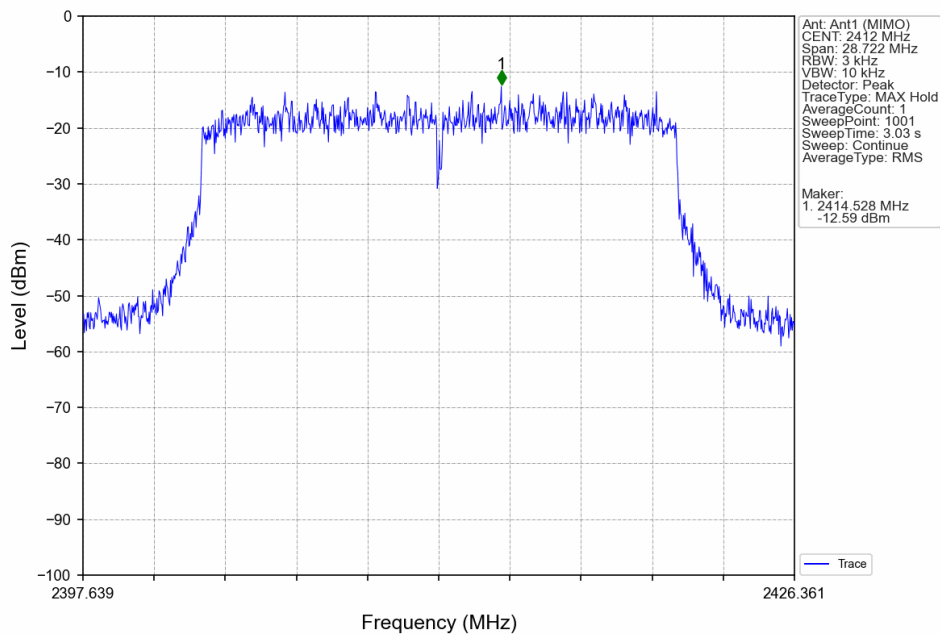
802.11n(HT40)\_HCH\_2452MHz\_MIMO\_NTNV



802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant0 (MIMO)\_NTNV



802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



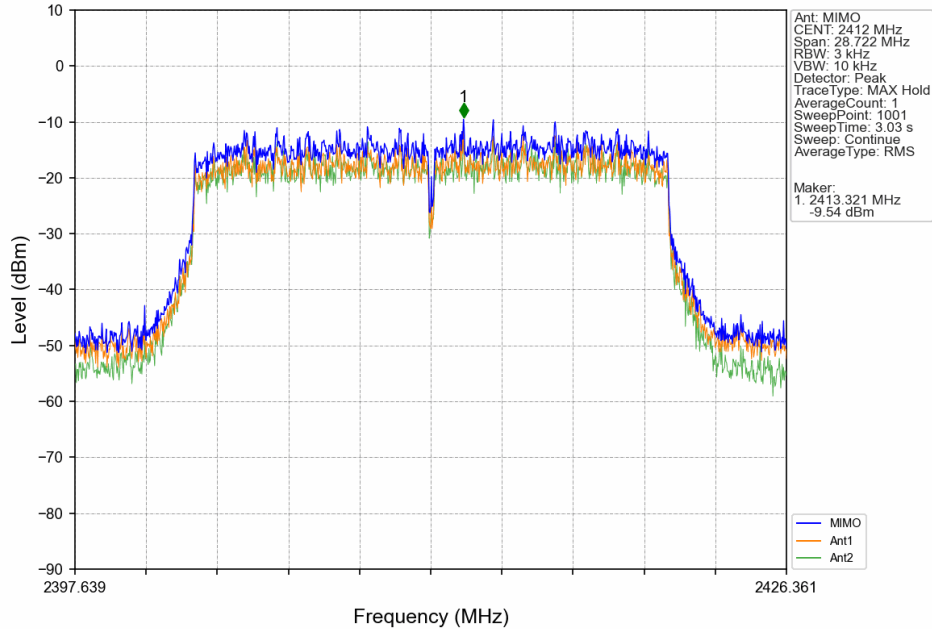
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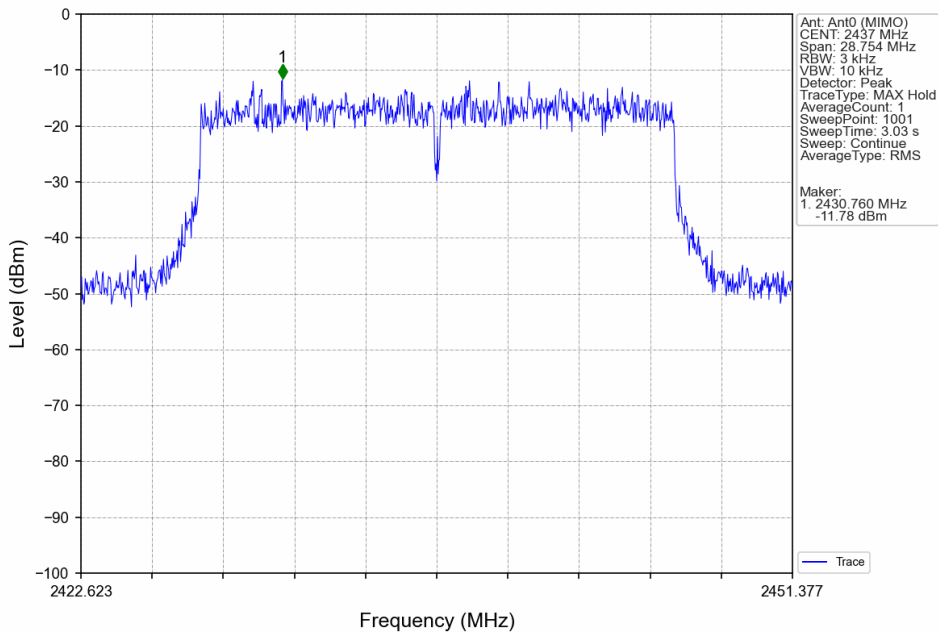
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802.11ax(HEW20)\_LCH\_2412MHz\_RU242\_Left\_MIMO\_NTNV

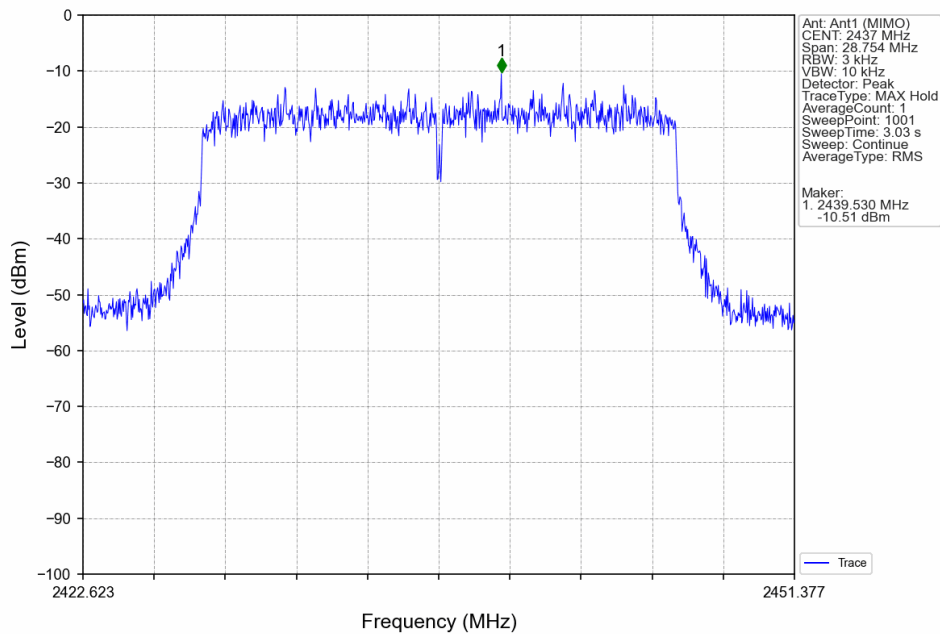


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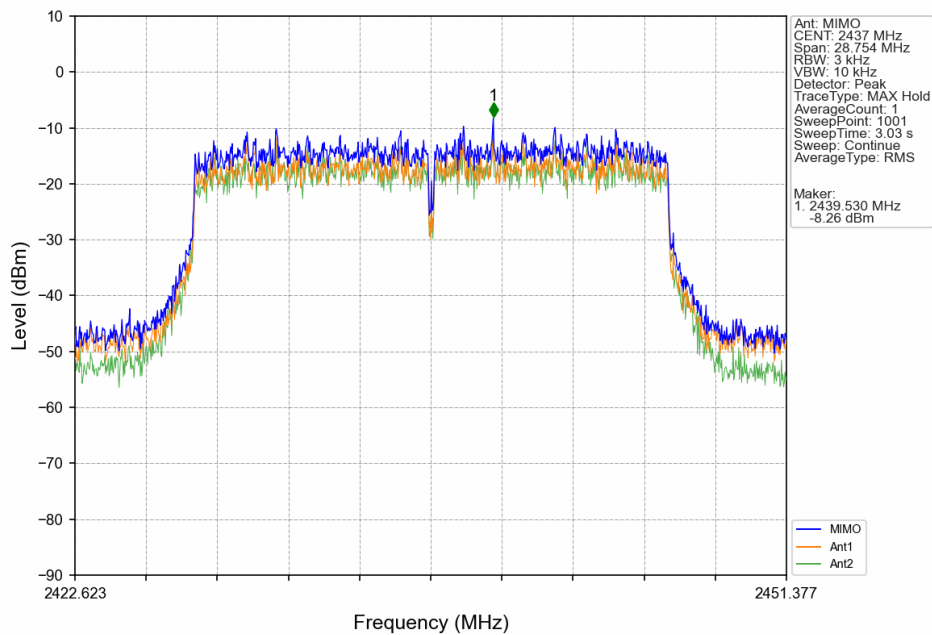




802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_Ant1 (MIMO)\_NTNV



802.11ax(HEW20)\_MCH\_2437MHz\_RU242\_Left\_MIMO\_NTNV



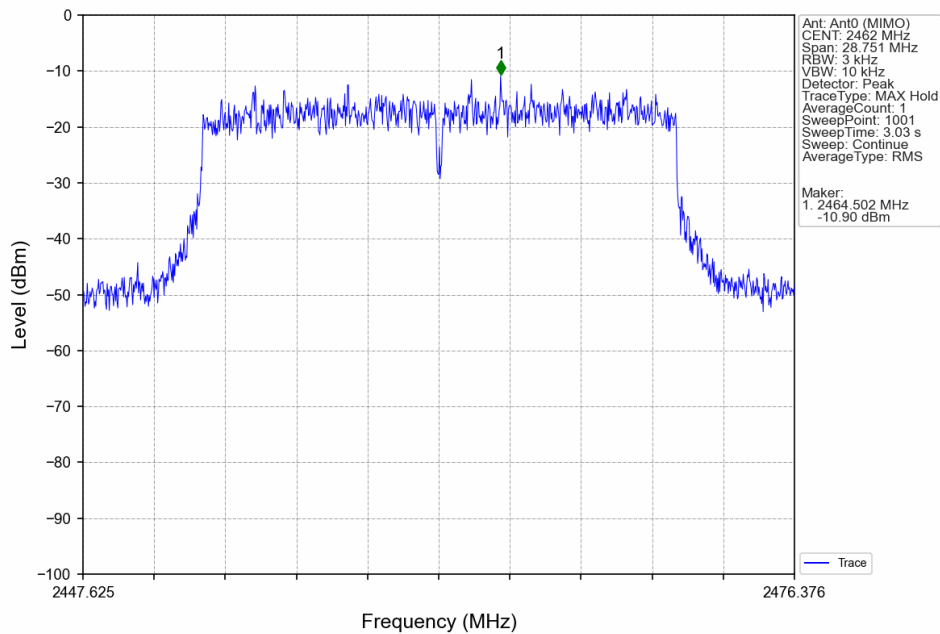
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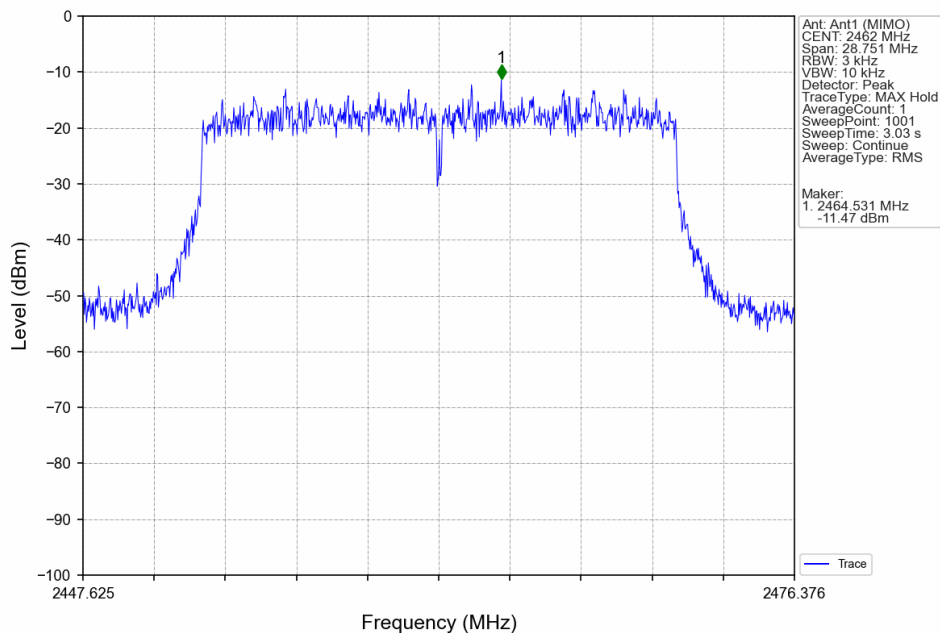
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802.11ax(HEW20)\_HCH\_2462MHz\_RU242\_Left\_Ant0 (MIMO)\_NTNV



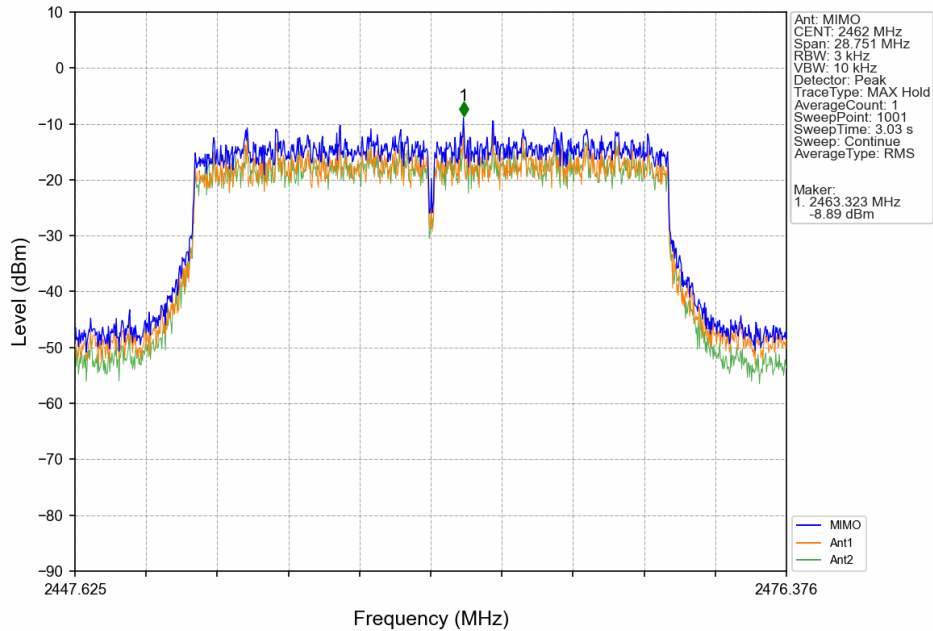
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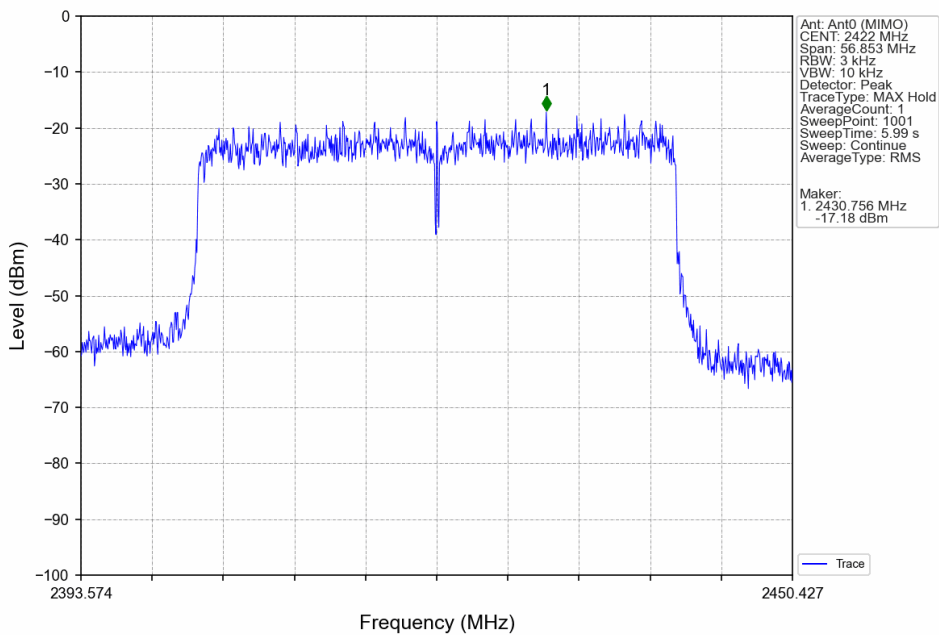
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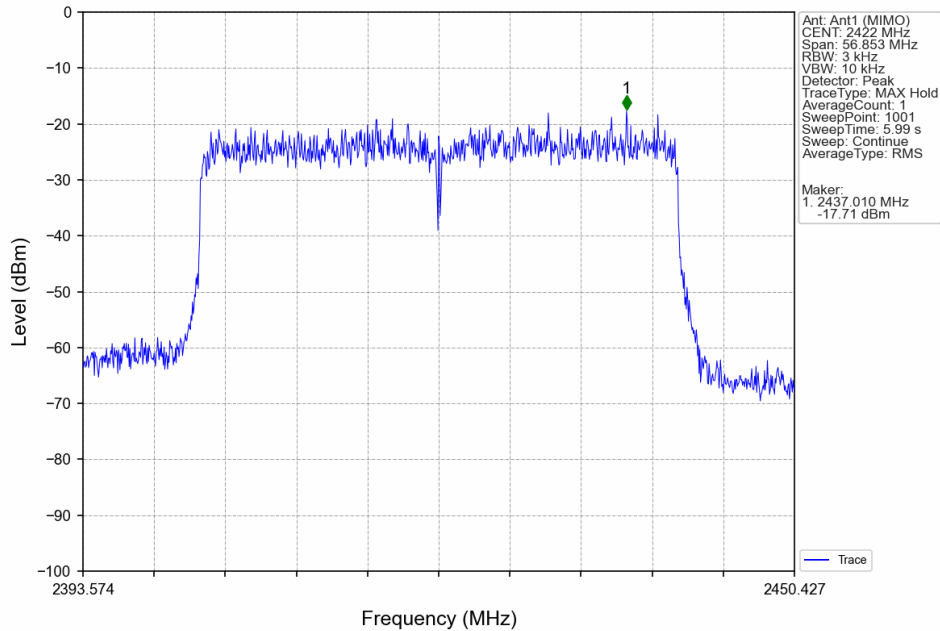
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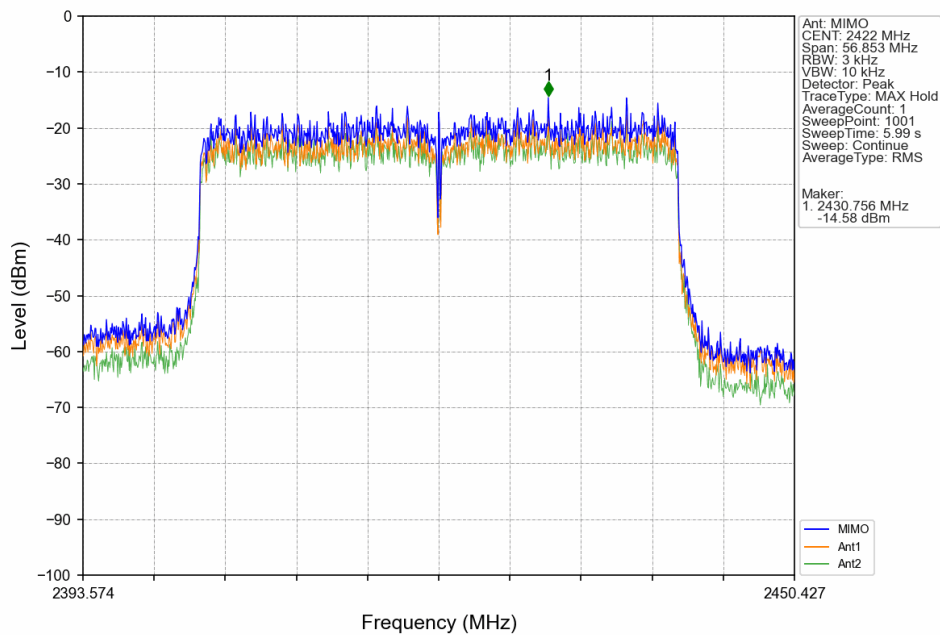
802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant0 (MIMO)\_NTNV



802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV

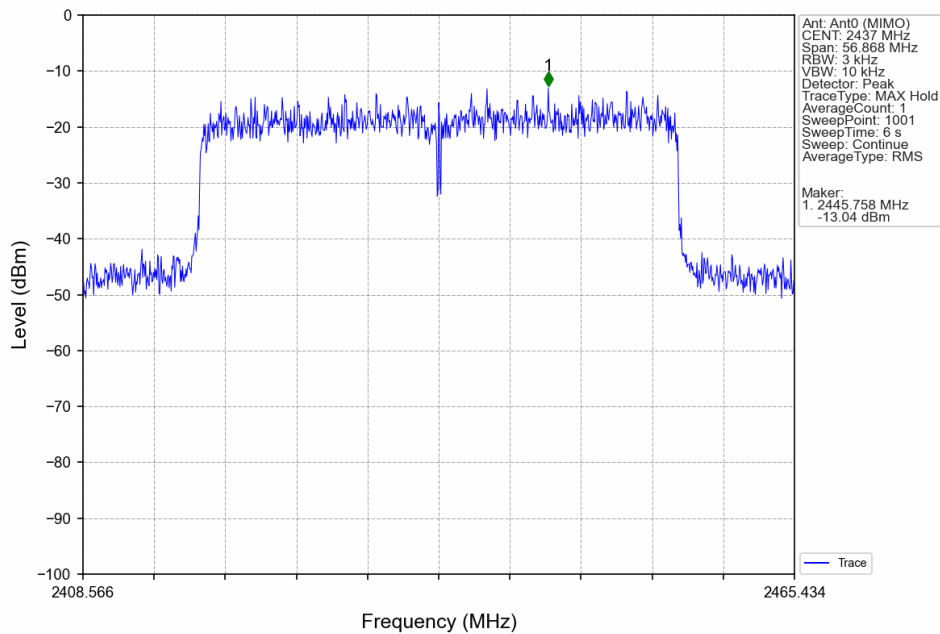


802.11ax(HEW40)\_LCH\_2422MHz\_RU484\_Left\_MIMO\_NTNV

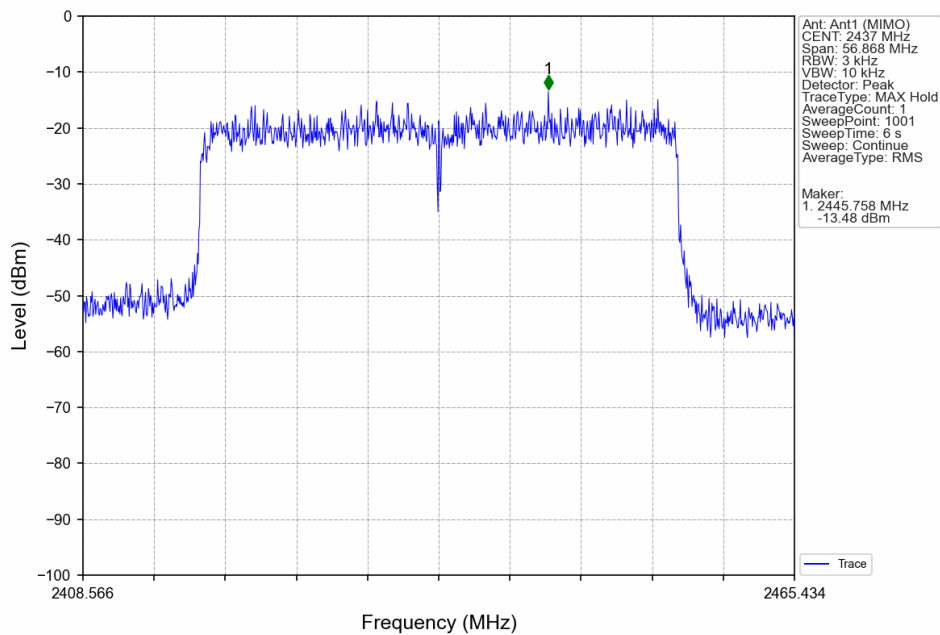




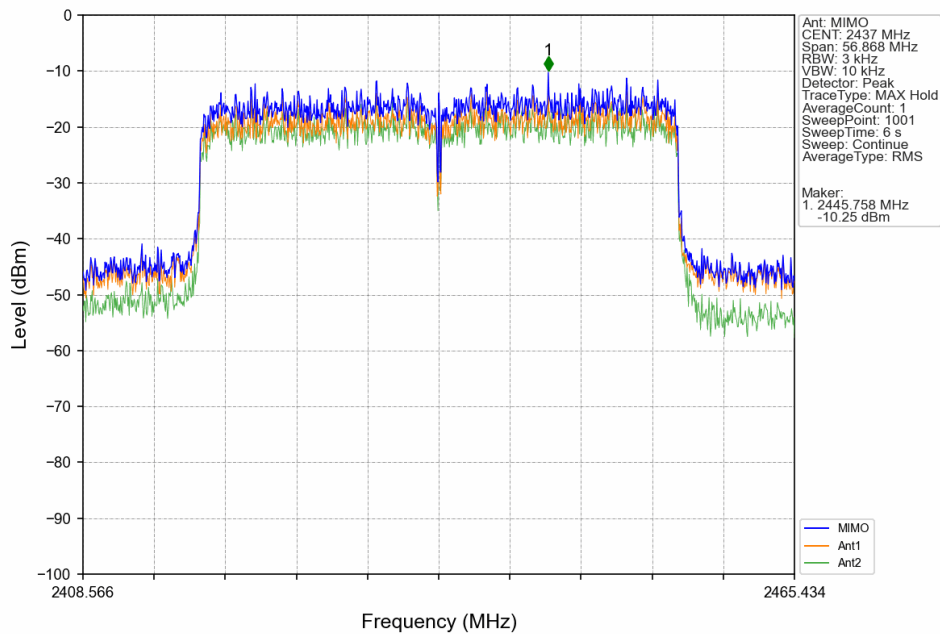
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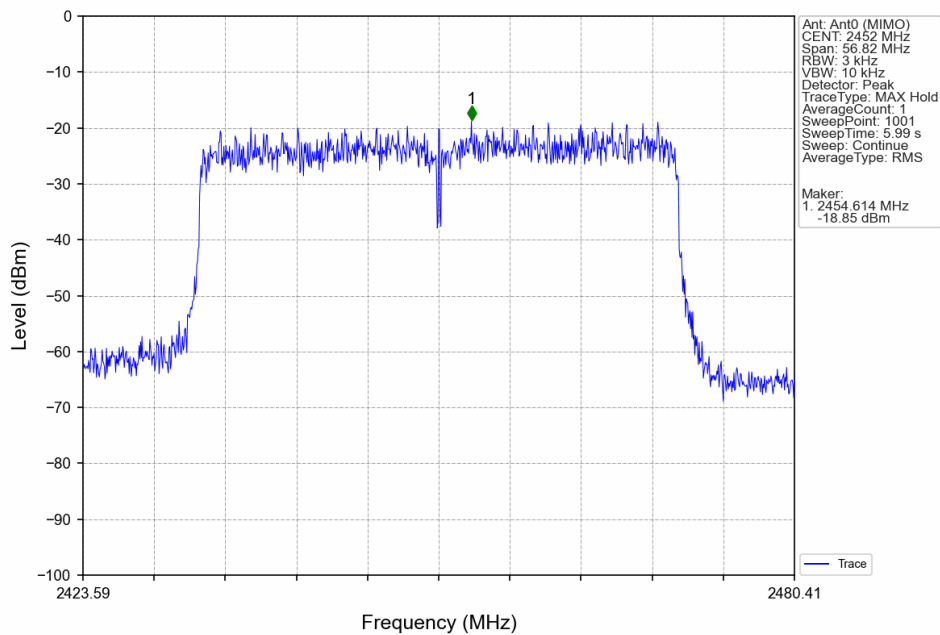
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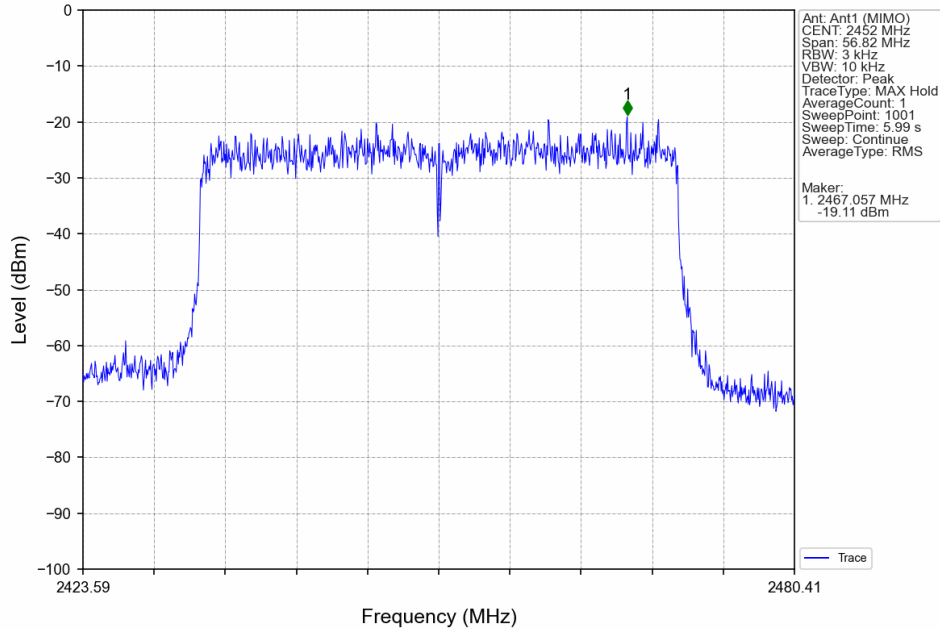
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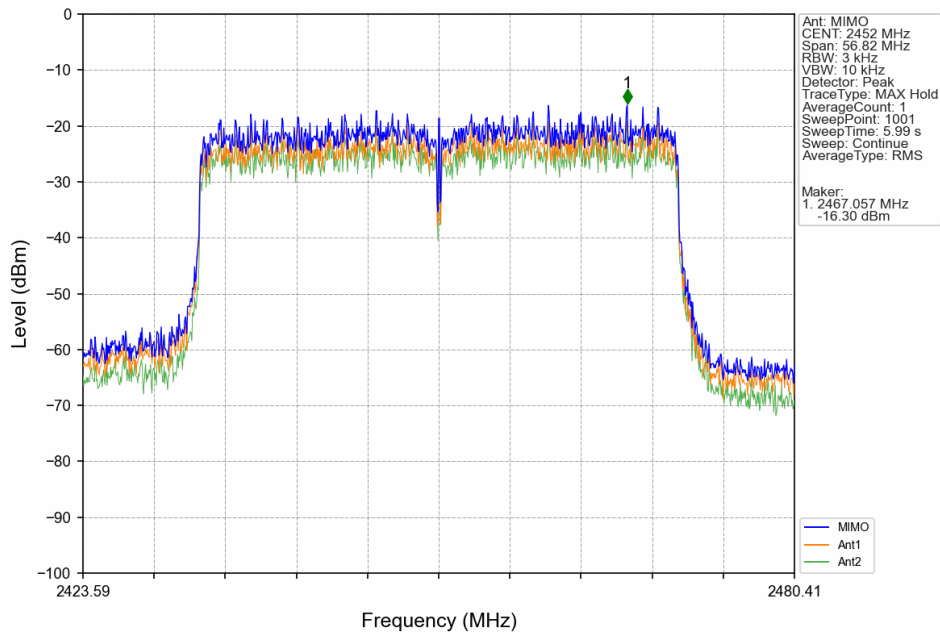
802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant0 (MIMO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_Ant1 (MIMO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_RU484\_Left\_MIMO\_NTNV



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

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	0	10.32
					1	9.78
		2437	/	/	0	10.57
					1	10.43
		2462	/	/	0	10.74
					1	10.11
802.11g	SISO	2412	/	/	0	5.22
					1	4.92
		2437	/	/	0	6.57
					1	4.92
		2462	/	/	0	6.55
					1	5.92
802.11n (HT20)	MIMO	2412	/	/	0	4.50
					1	3.40
		2437	/	/	0	6.20
					1	4.96
		2462	/	/	0	5.67
					1	4.71
802.11n (HT40)	MIMO	2422	/	/	0	-0.74
					1	-1.92
		2437	/	/	0	3.45
					1	1.98
		2452	/	/	0	-1.73
					1	-3.07
802.11ax (HEW20)	MIMO	2412	RU242	Left	0	4.80
					1	4.49
		2437	RU242	Left	0	5.41
					1	4.69
		2462	RU242	Left	0	5.04
					1	4.69
802.11ax	MIMO	2422	RU484	Left	0	-0.84



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(HEW40)	2437	RU484	Left	1	-1.99
				0	3.29
				1	2.12
	2452	RU484	Left	0	-1.88
				1	-3.18

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.

### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	0	10.74	-19.26	Pass
					1	10.43	-19.57	Pass
		2437	/	/	0	10.74	-19.26	Pass
					1	10.43	-19.57	Pass
		2462	/	/	0	10.74	-19.26	Pass
					1	10.43	-19.57	Pass
802.11g	SISO	2412	/	/	0	6.57	-23.43	Pass
					1	5.92	-24.08	Pass
		2437	/	/	0	6.57	-23.43	Pass
					1	5.92	-24.08	Pass
		2462	/	/	0	6.57	-23.43	Pass
					1	5.92	-24.08	Pass
802.11n (HT20)	MIMO	2412	/	/	0	6.20	-23.80	Pass
					1	4.96	-25.04	Pass
		2437	/	/	0	6.20	-23.80	Pass
					1	4.96	-25.04	Pass
		2462	/	/	0	6.20	-23.80	Pass
					1	4.96	-25.04	Pass
802.11n (HT40)	MIMO	2422	/	/	0	3.45	-26.55	Pass
					1	1.98	-28.02	Pass
		2437	/	/	0	3.45	-26.55	Pass
					1	1.98	-28.02	Pass
		2452	/	/	0	3.45	-26.55	Pass
					1	1.98	-28.02	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	0	5.41	-24.59	Pass
					1	4.69	-25.31	Pass
		2437	RU242	Left	0	5.41	-24.59	Pass
					1	4.69	-25.31	Pass
		2462	RU242	Left	0	5.41	-24.59	Pass

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SZEMC-TRF-01 Rev. A/1

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					1	4.69	-25.31	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	0	3.29	-26.71	Pass
					1	2.12	-27.88	Pass
		2437	RU484	Left	0	3.29	-26.71	Pass
					1	2.12	-27.88	Pass
		2452	RU484	Left	0	3.29	-26.71	Pass
					1	2.12	-27.88	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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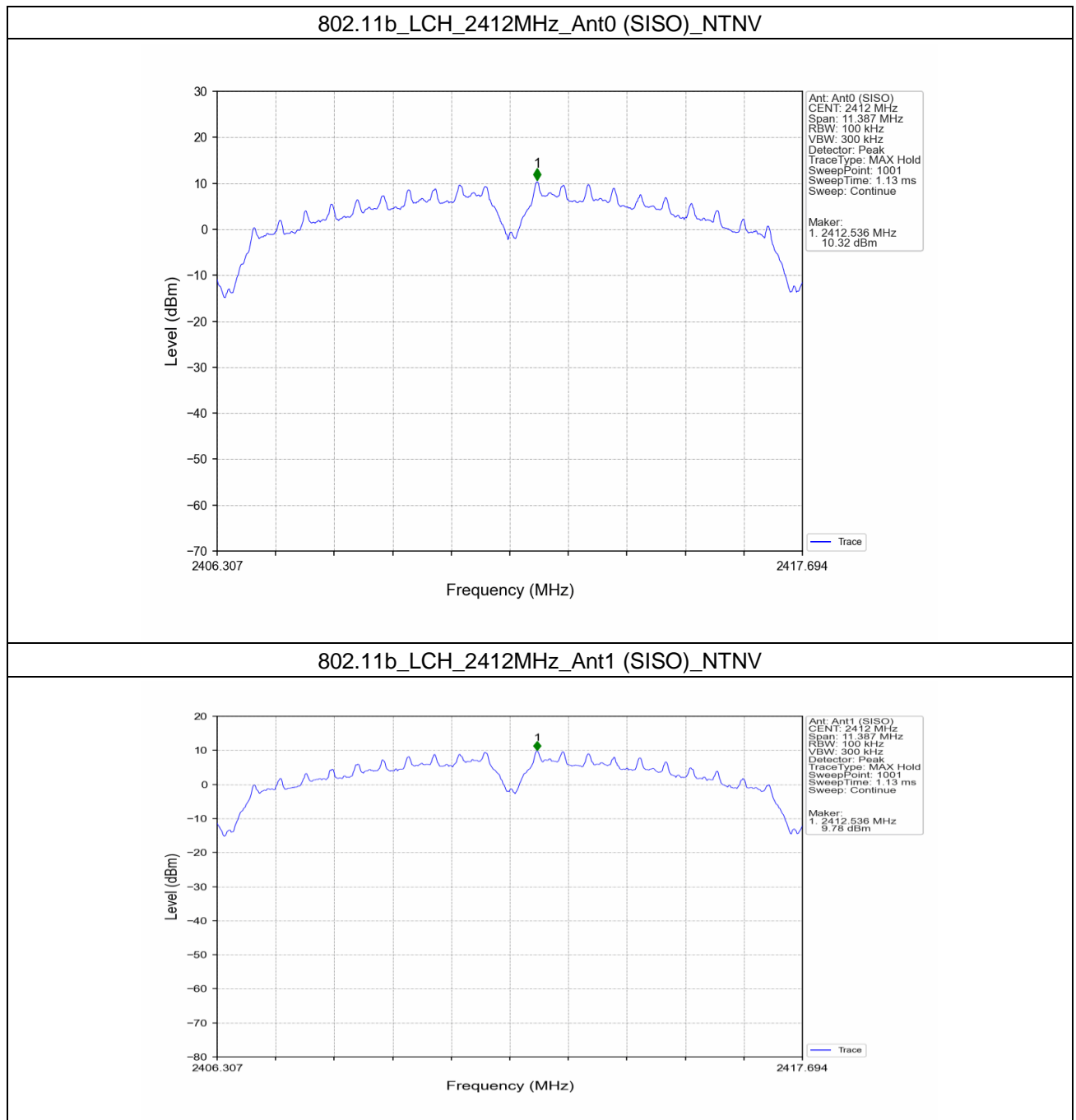
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### 5.2 Test Graph

#### 5.2.1 Ref



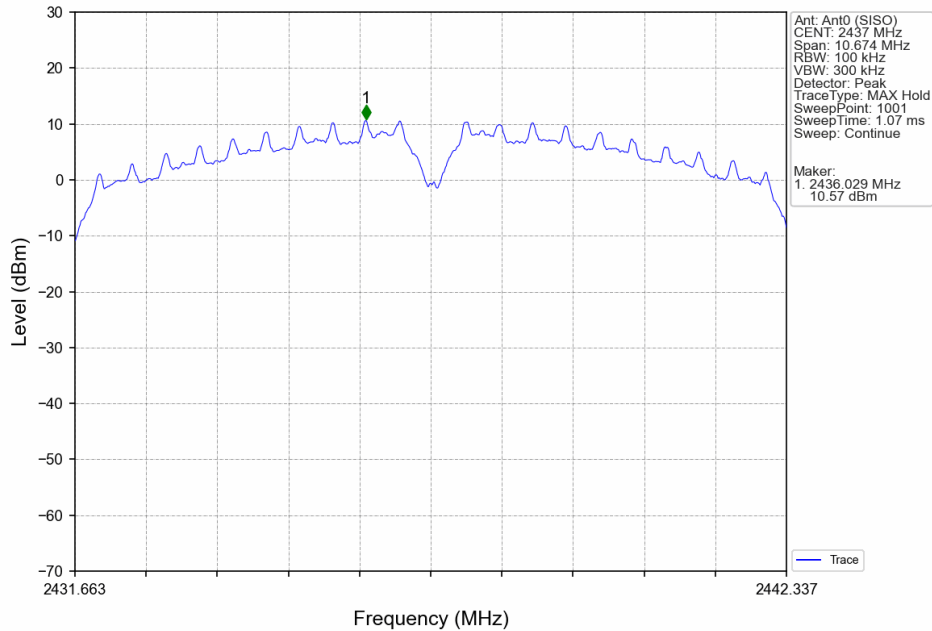
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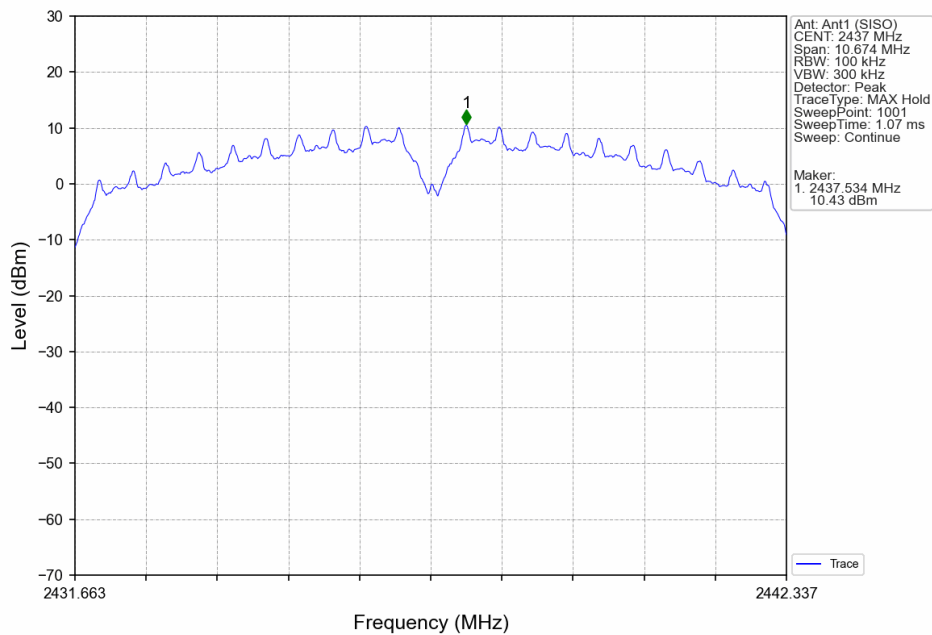
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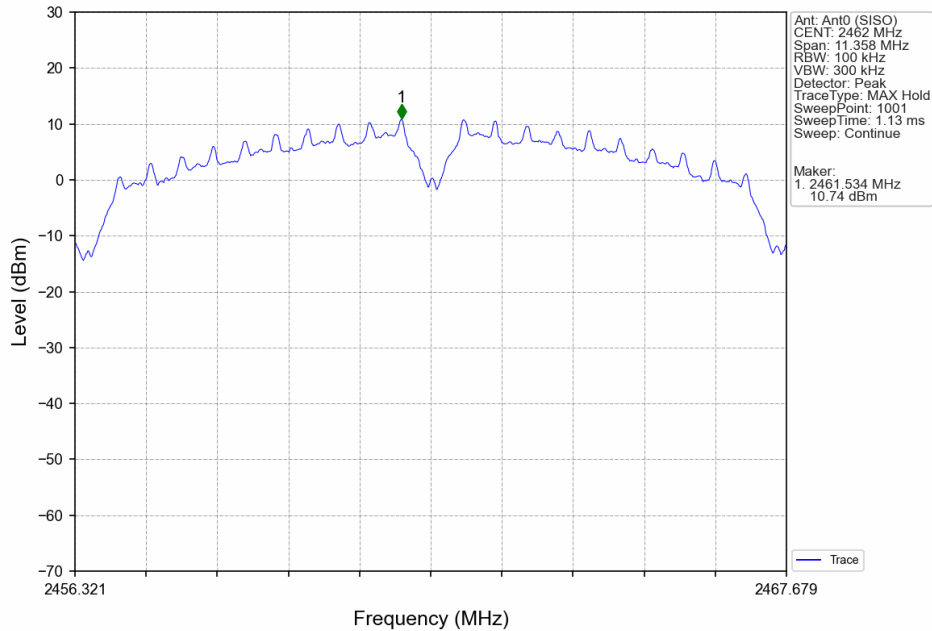


### 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

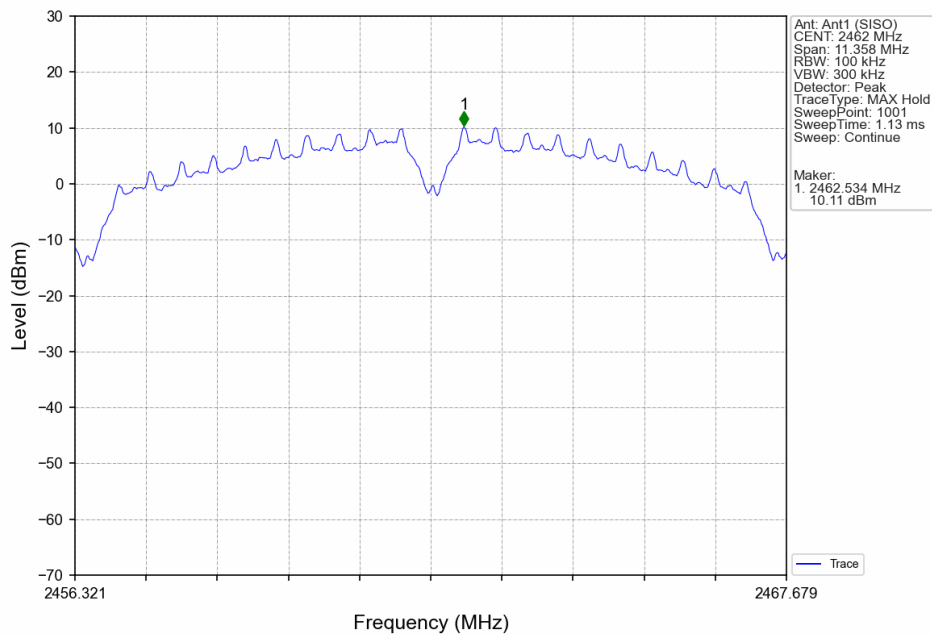




### 802.11b\_HCH\_2462MHz\_Ant0 (SISO)\_NTNV



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



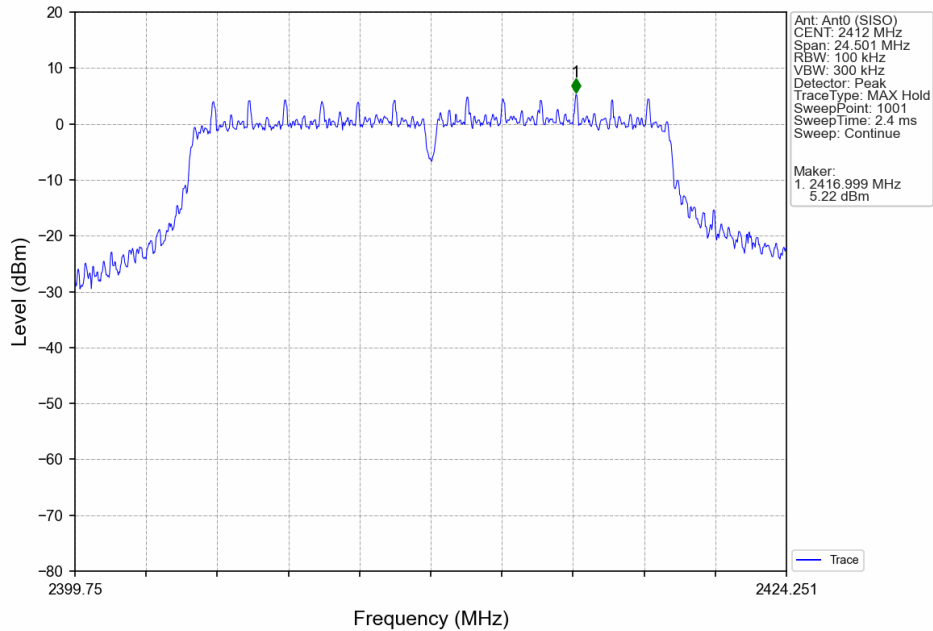
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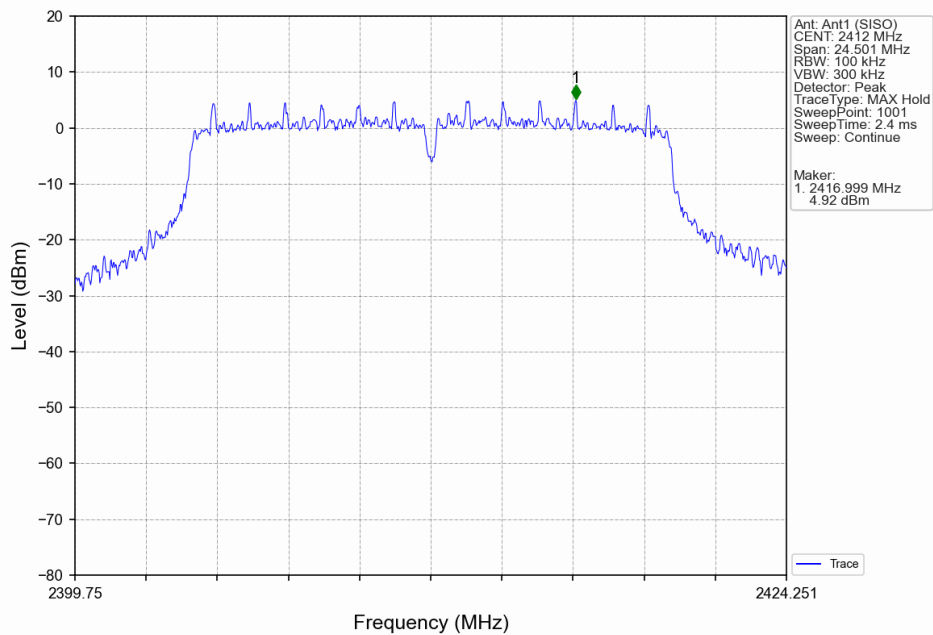
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802.11g\_LCH\_2412MHz\_Ant0 (SISO)\_NTNV



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



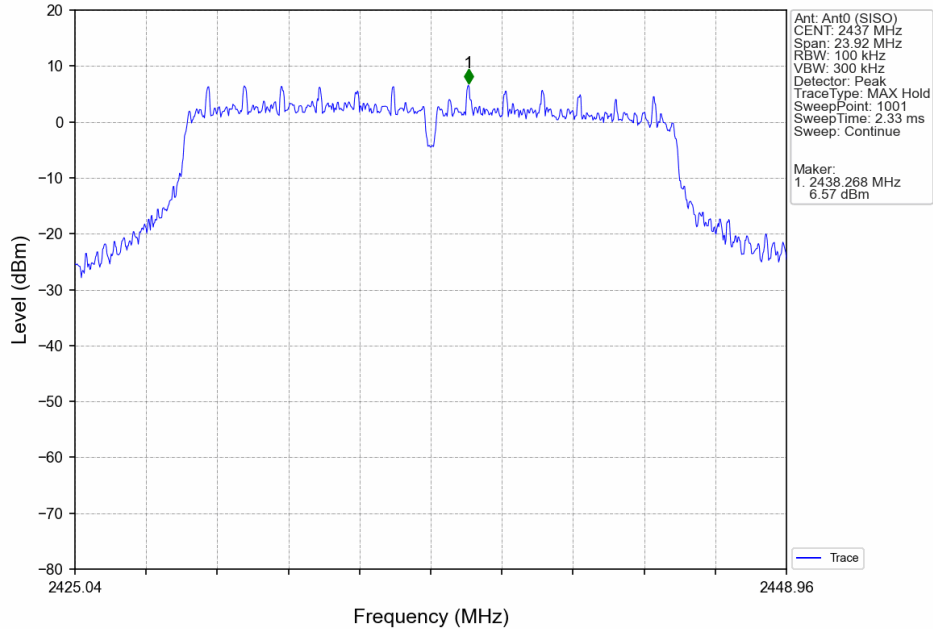
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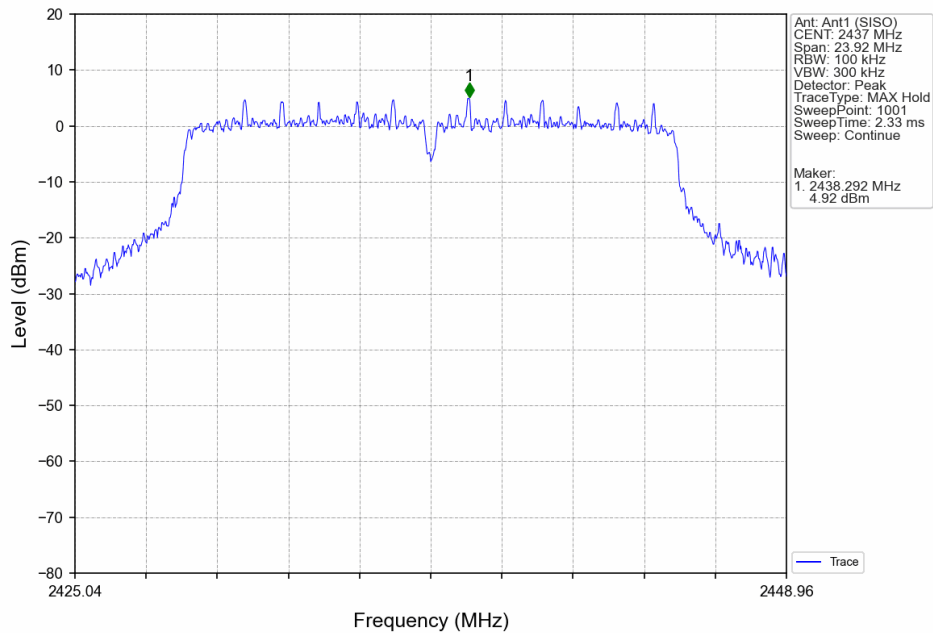
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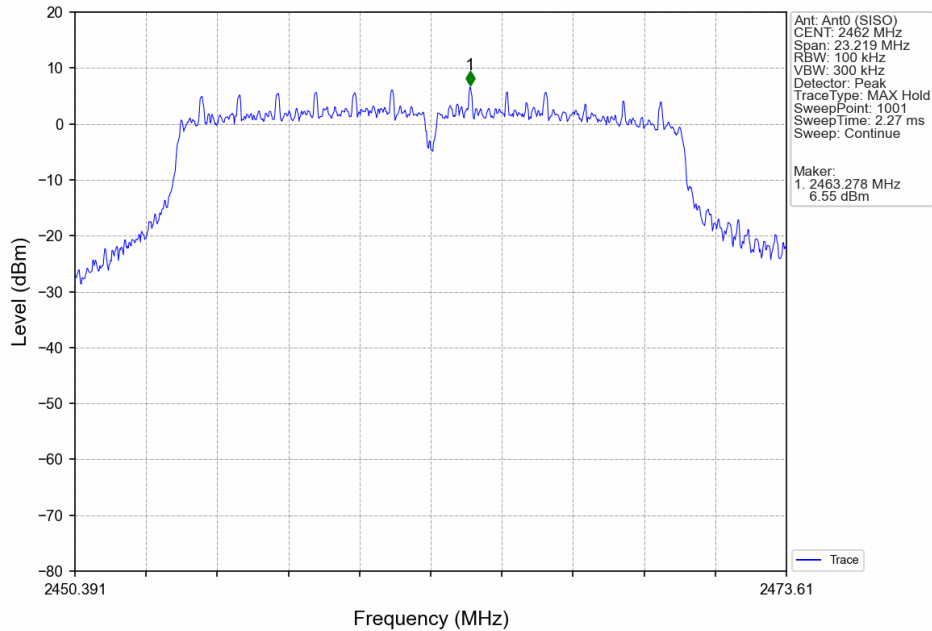
802.11g\_MCH\_2437MHz\_Ant0 (SISO)\_NTNV



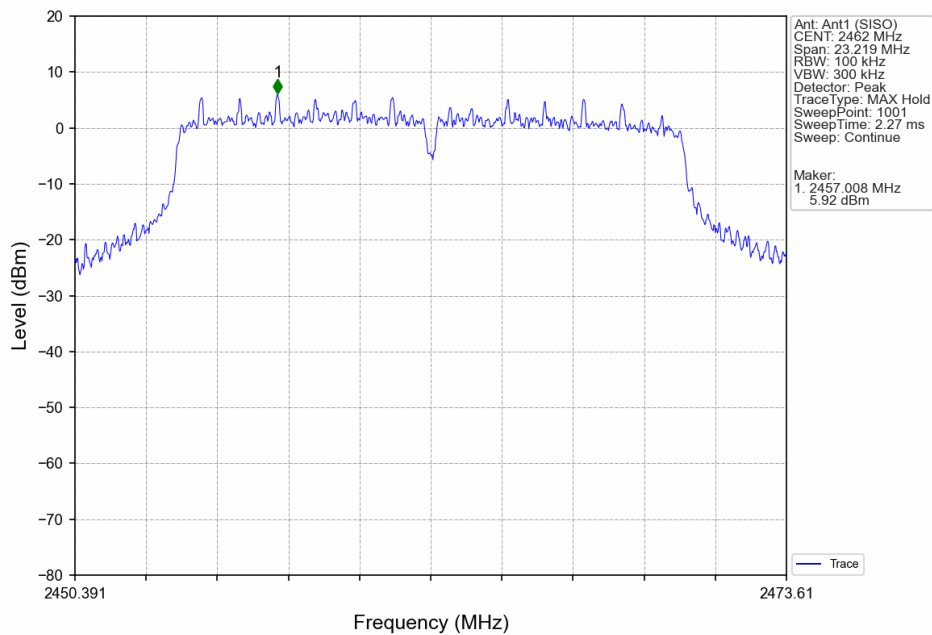
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802.11g\_HCH\_2462MHz\_Ant0 (SISO)\_NTNV



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



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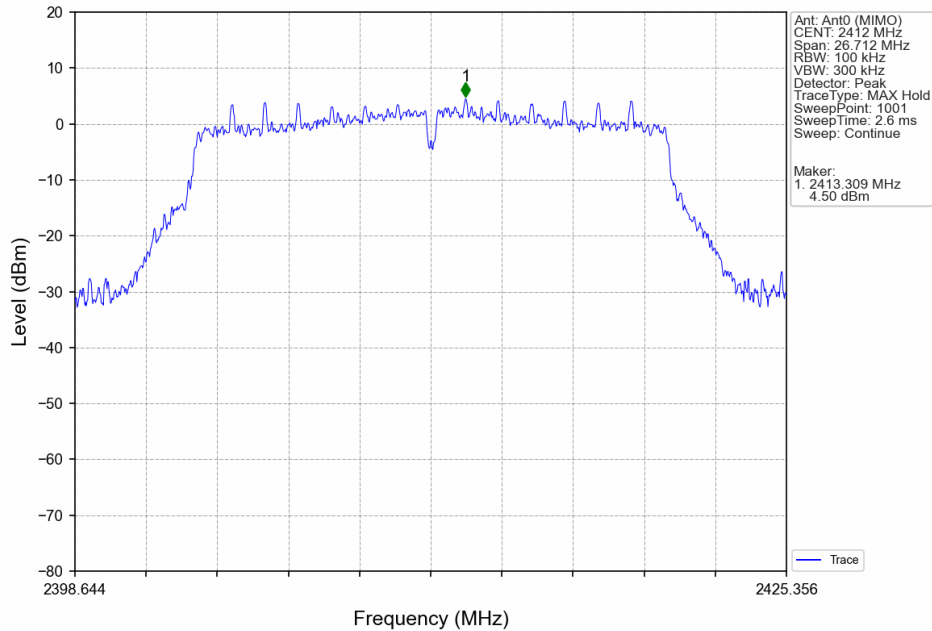
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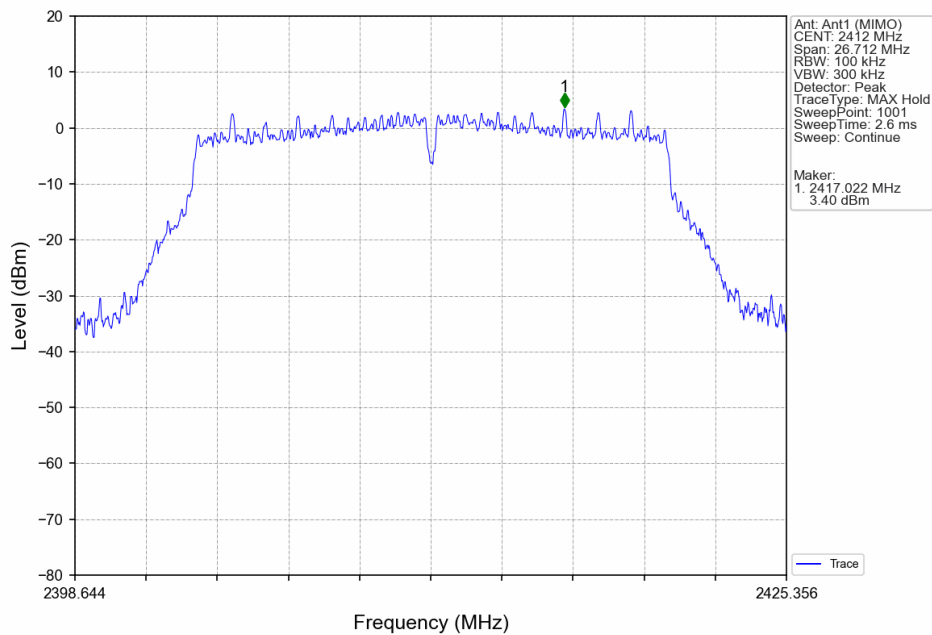
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### 802.11n(HT20)\_LCH\_2412MHz\_Ant0 (MIMO)\_NTNV



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



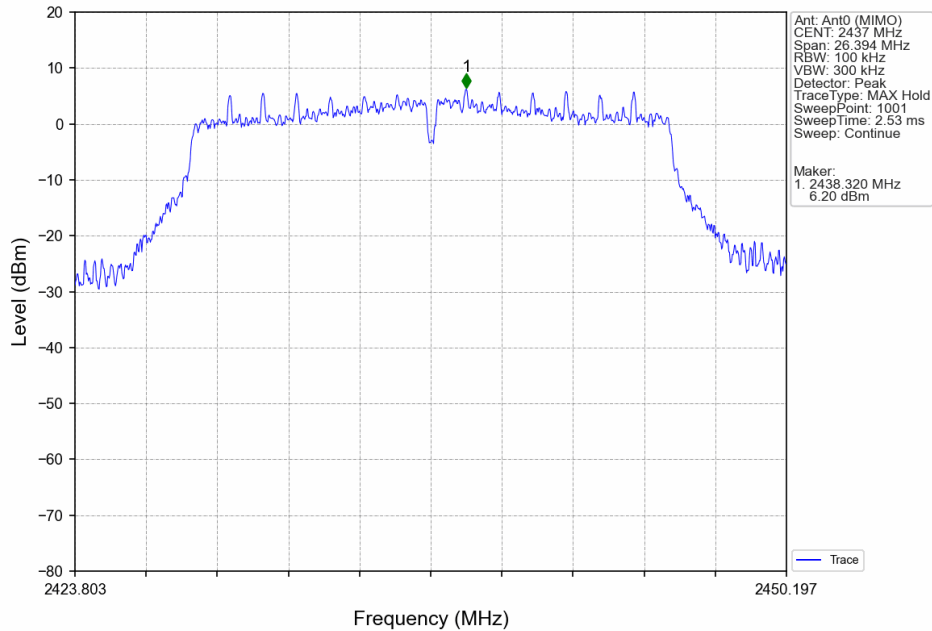
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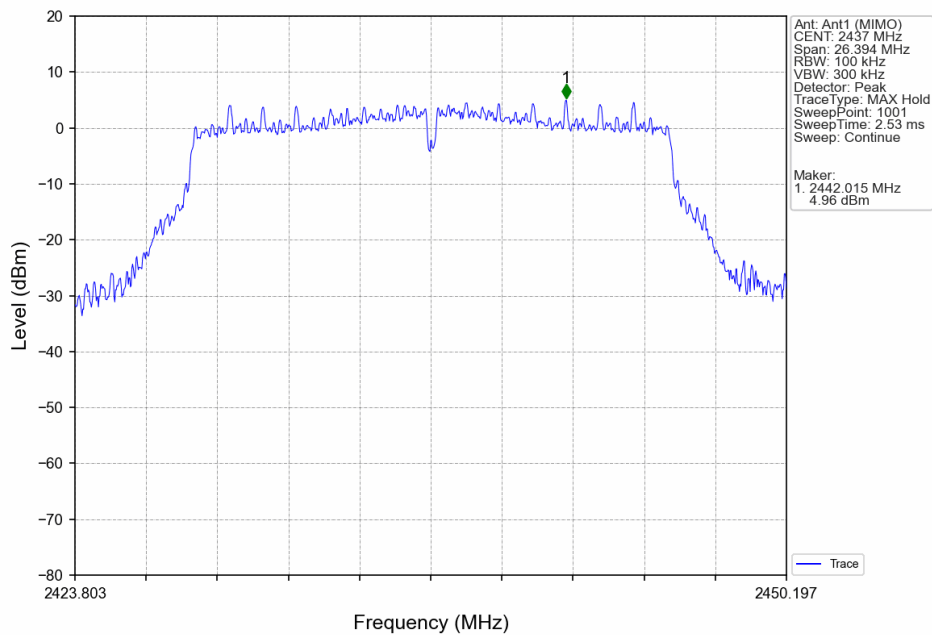
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802.11n(HT20)\_MCH\_2437MHz\_Ant0 (MIMO)\_NTNV



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



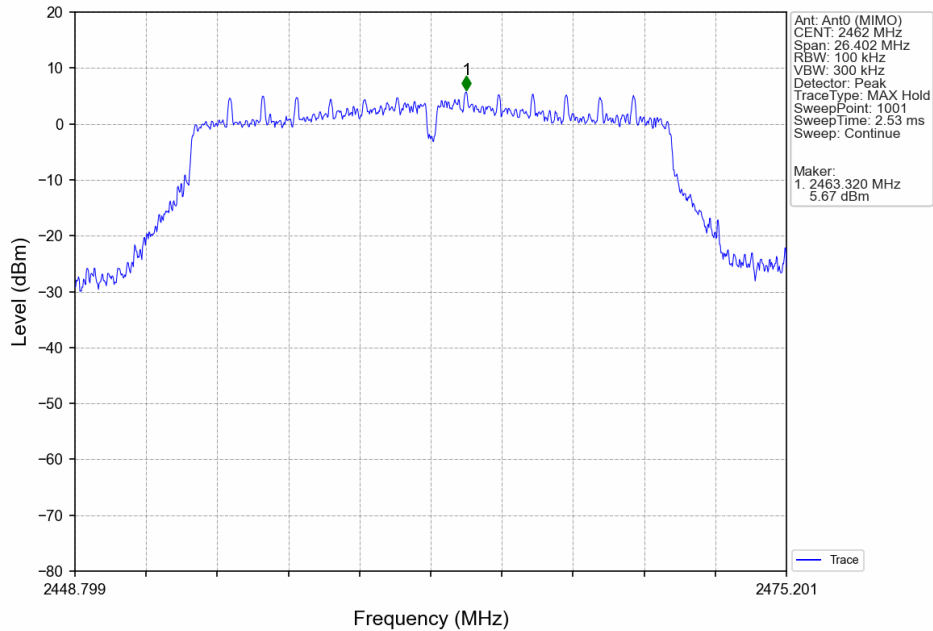
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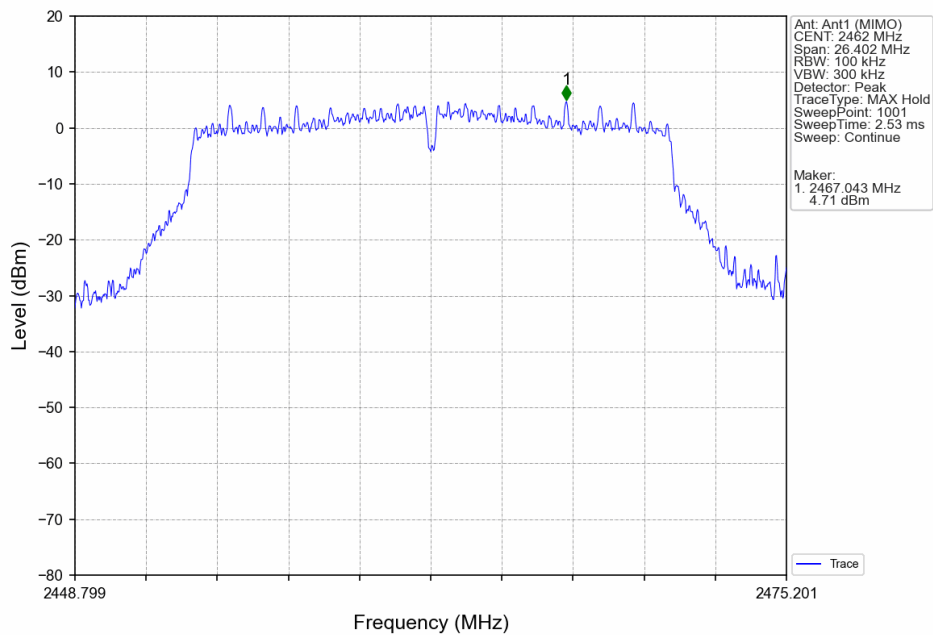
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802.11n(HT20)\_HCH\_2462MHz\_Ant0 (MIMO)\_NTNV



802.11n(HT20)\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



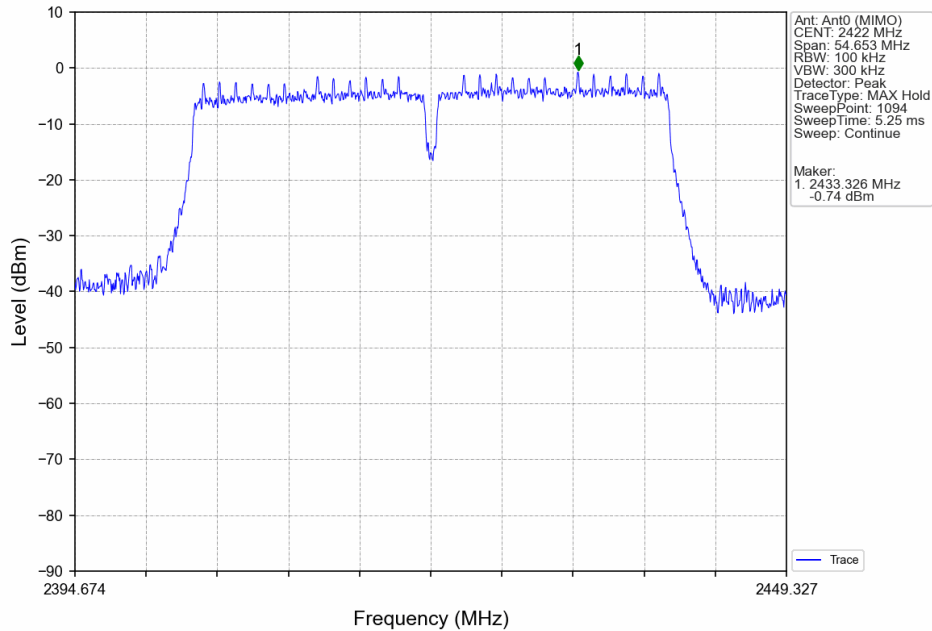
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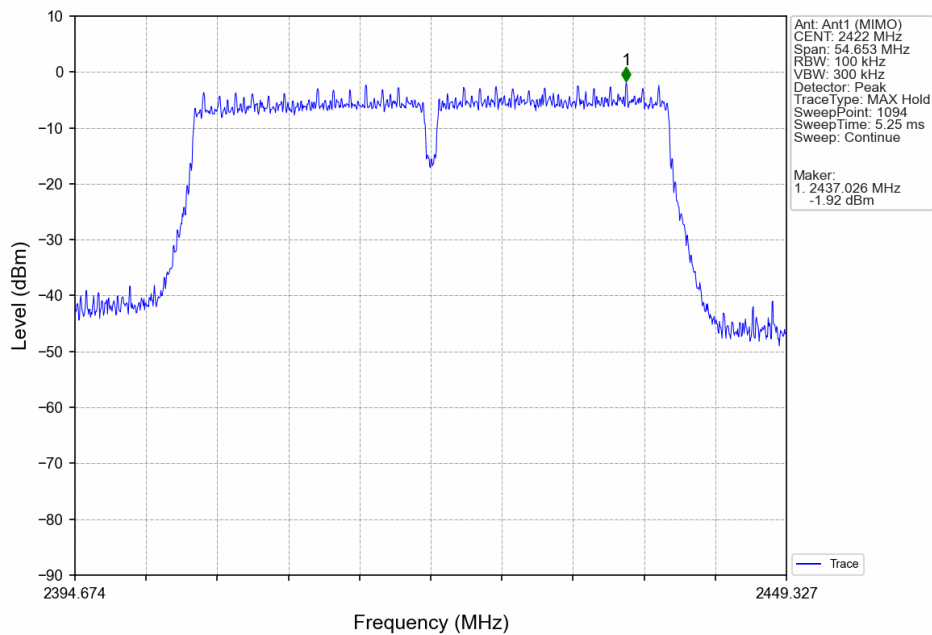
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### 802.11n(HT40)\_LCH\_2422MHz\_Ant0 (MIMO)\_NTNV

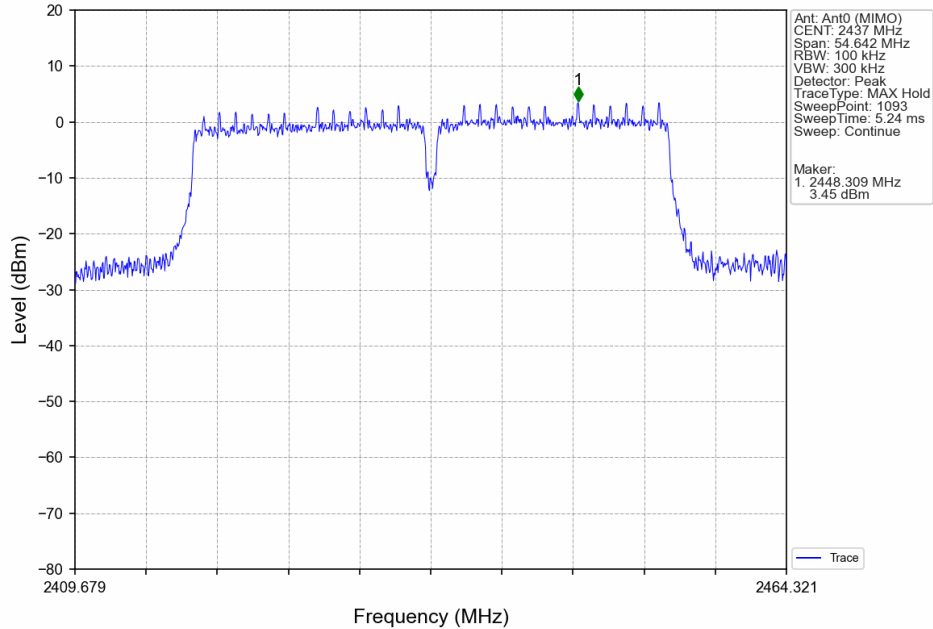


### 802.11n(HT40)\_LCH\_2422MHz\_Ant1 (MIMO)\_NTNV

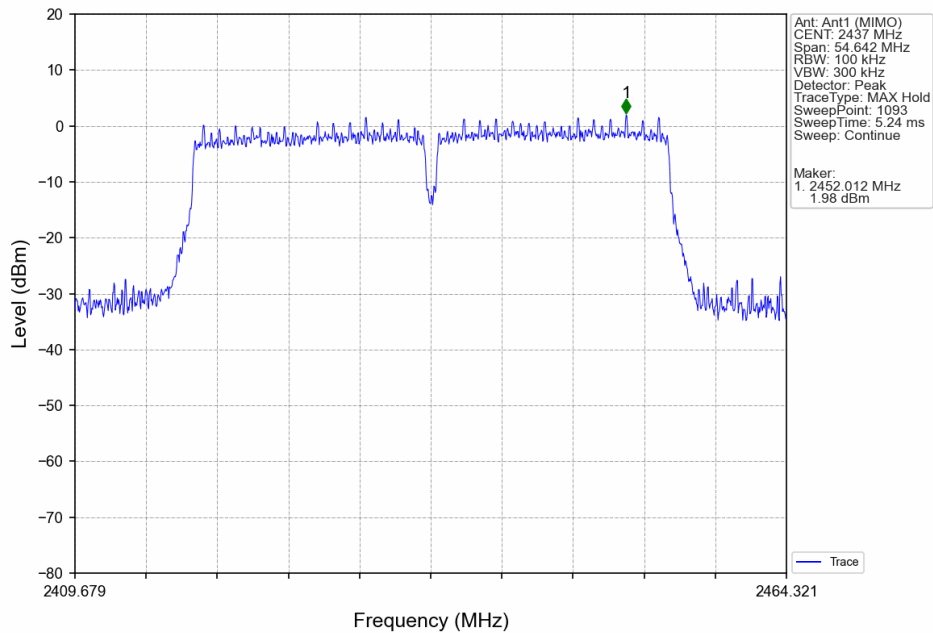




802.11n(HT40)\_MCH\_2437MHz\_Ant0 (MIMO)\_NTNV



802.11n(HT40)\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



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