



## 1. Duty Cycle

### 1.1 Test Result

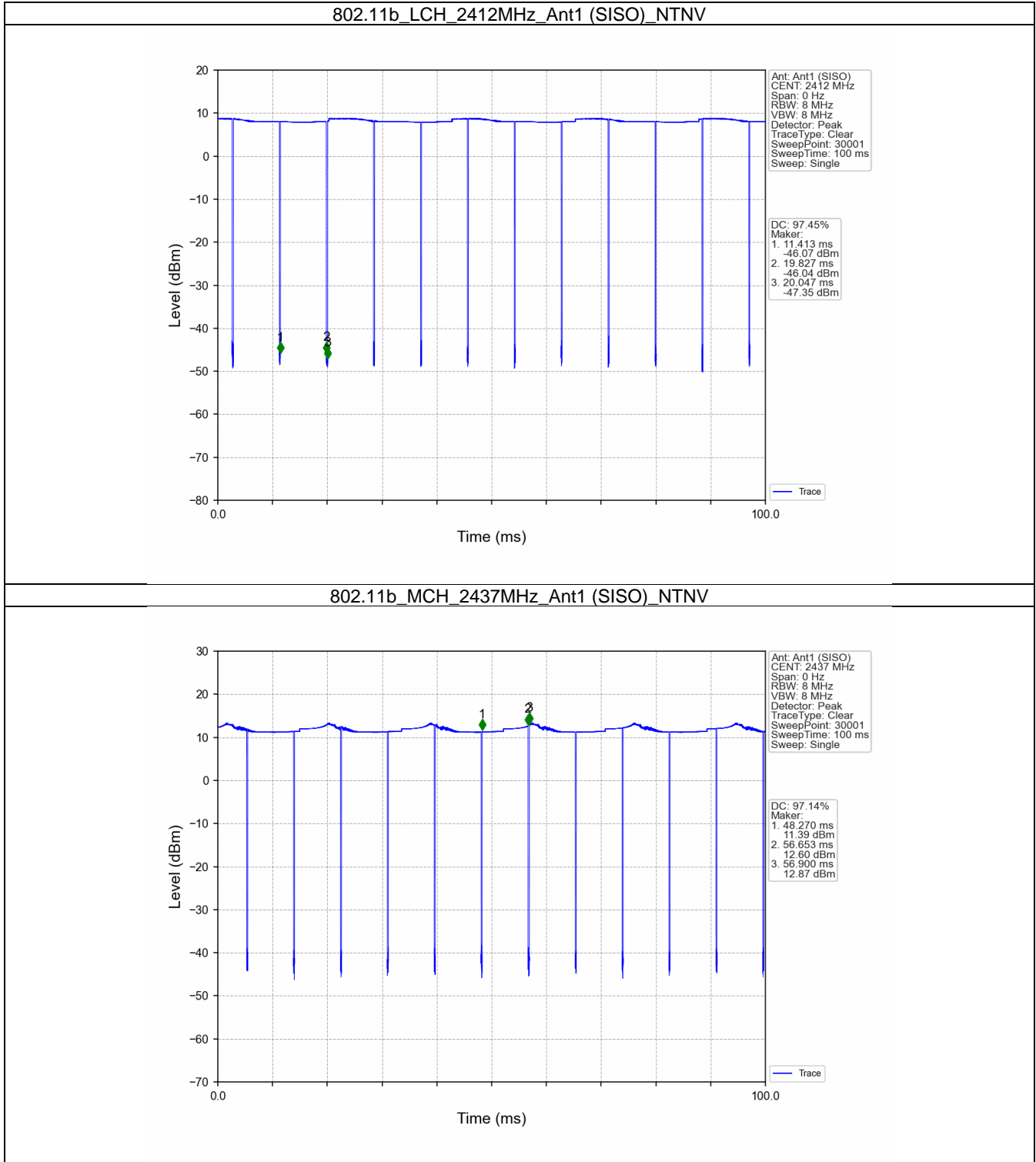
#### 1.1.1 Ant1

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	8.414	8.634	97.45	0.11	0.84
		2437	8.383	8.630	97.14	0.13	0.83
		2462	8.384	8.624	97.22	0.12	0.87
802.11g	SISO	2412	1.392	1.653	84.21	0.75	5.41
		2437	1.393	1.644	84.73	0.72	4.40
		2462	1.393	1.662	83.81	0.77	6.33
802.11n (HT20)	SISO	2412	1.174	1.435	81.81	0.87	6.06
		2437	1.175	1.390	84.53	0.73	2.84
		2462	1.174	1.444	81.30	0.90	6.01
802.11n (HT40)	SISO	2422	0.588	0.839	70.08	1.54	7.54
		2437	0.588	0.829	70.93	1.49	6.74
		2452	0.587	0.847	69.30	1.59	9.20

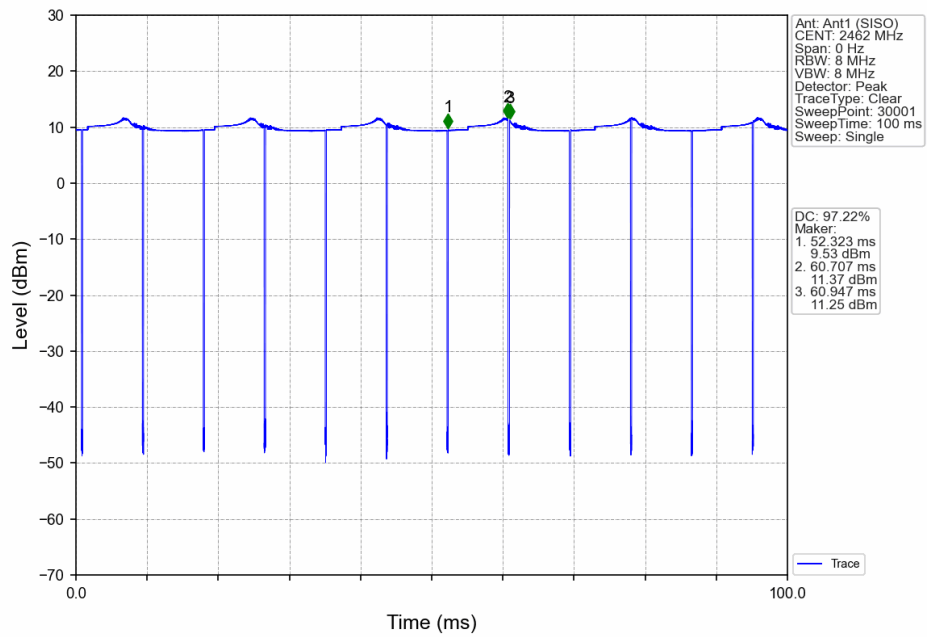


## 1.2 Test Graph

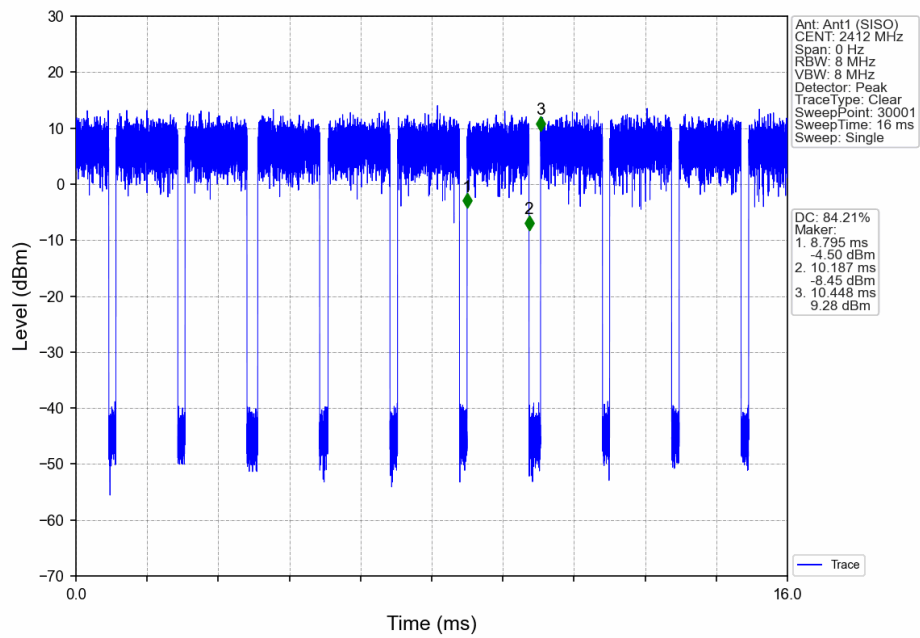
### 1.2.1 Ant1



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

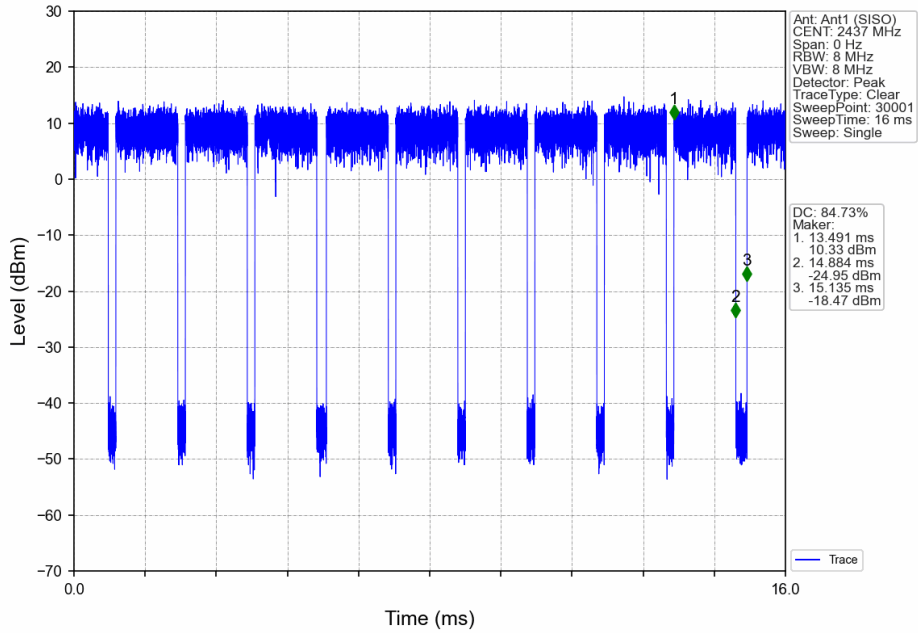


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

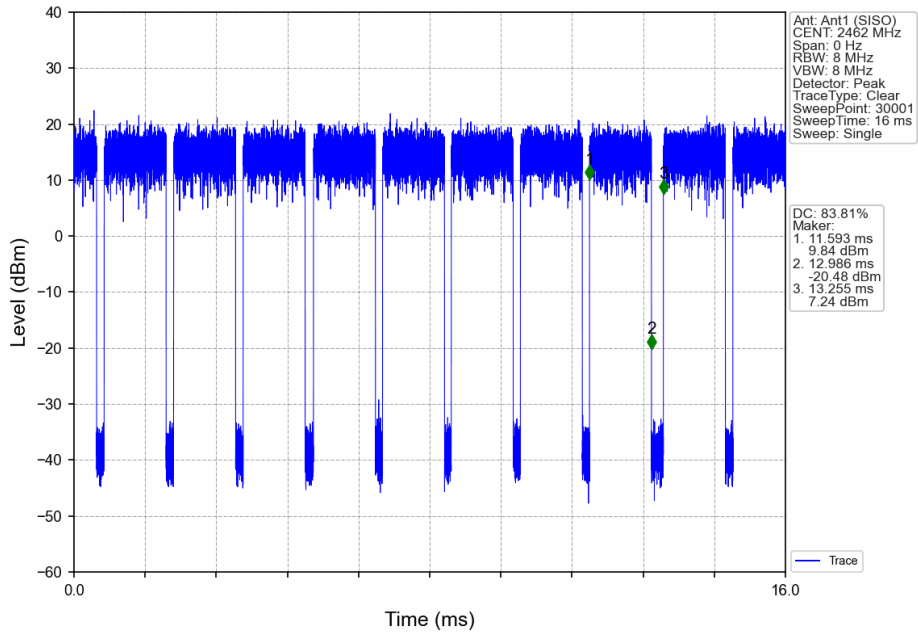




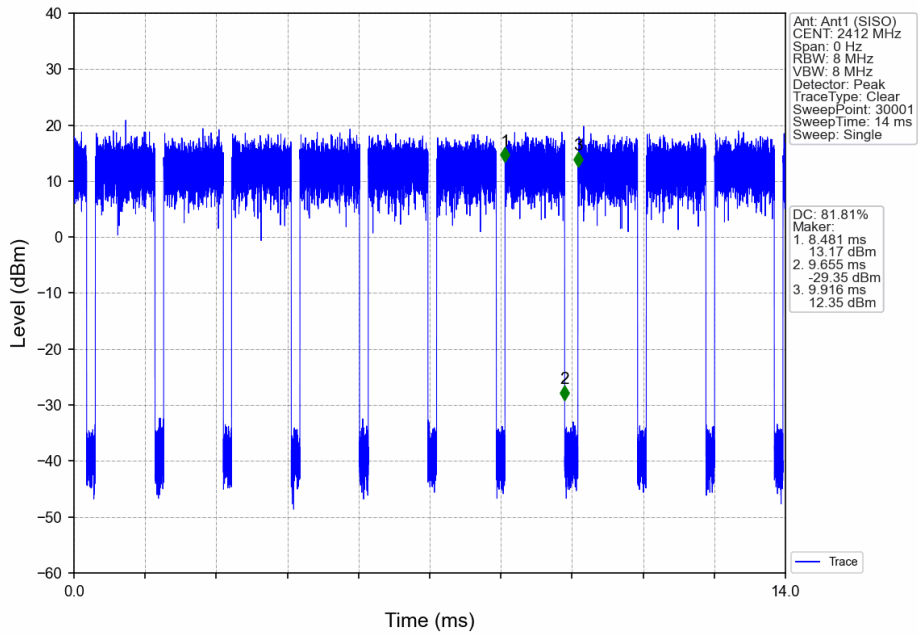
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



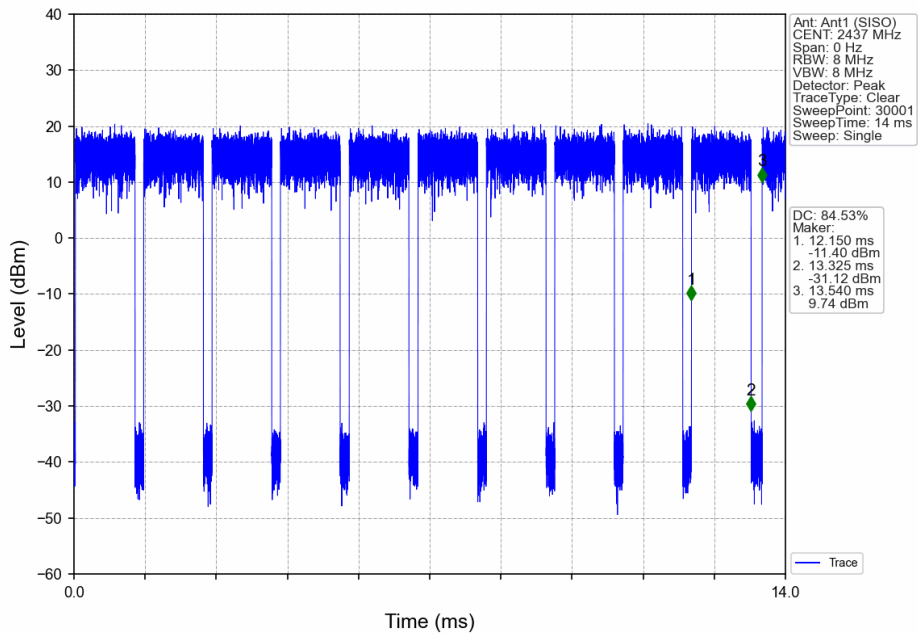
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

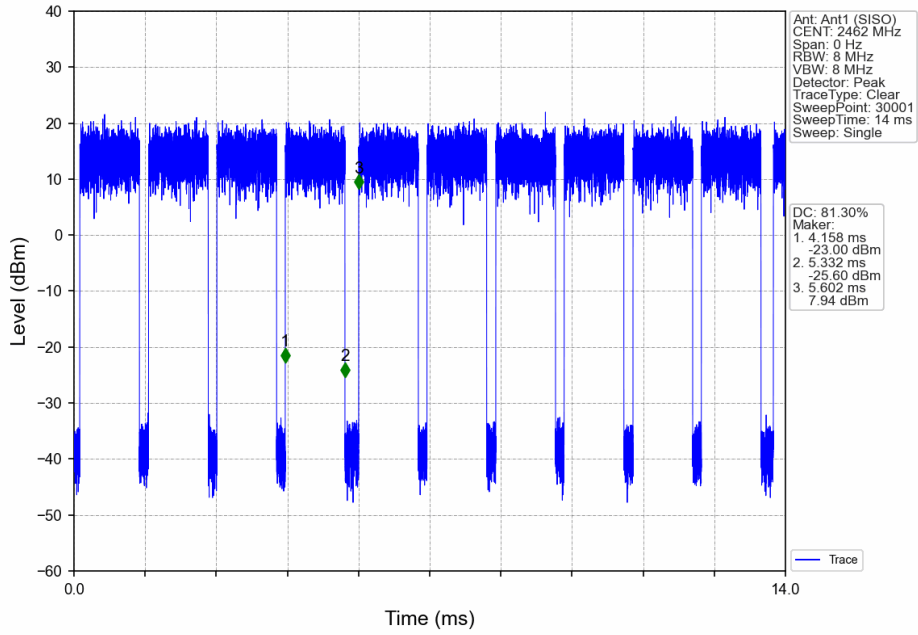


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

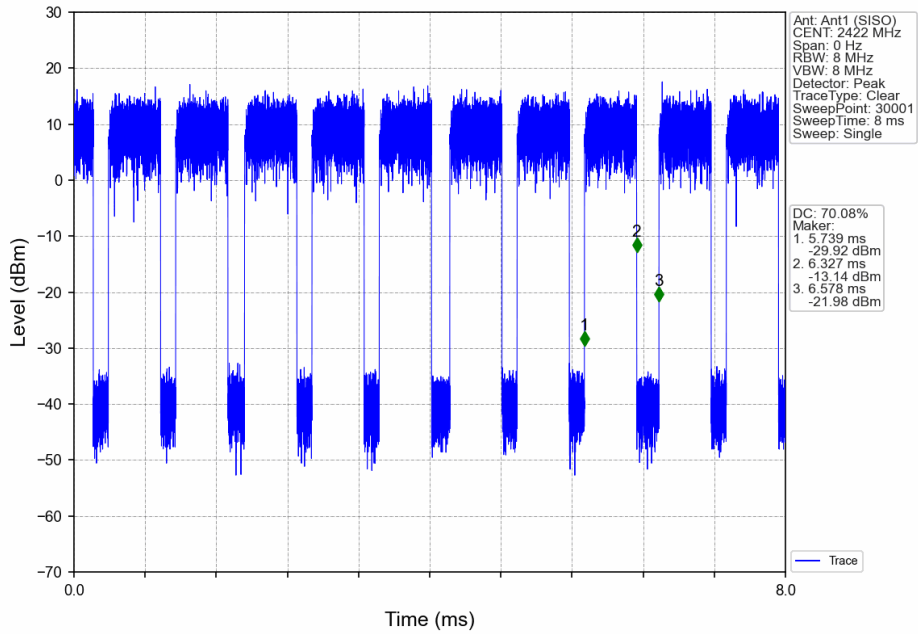




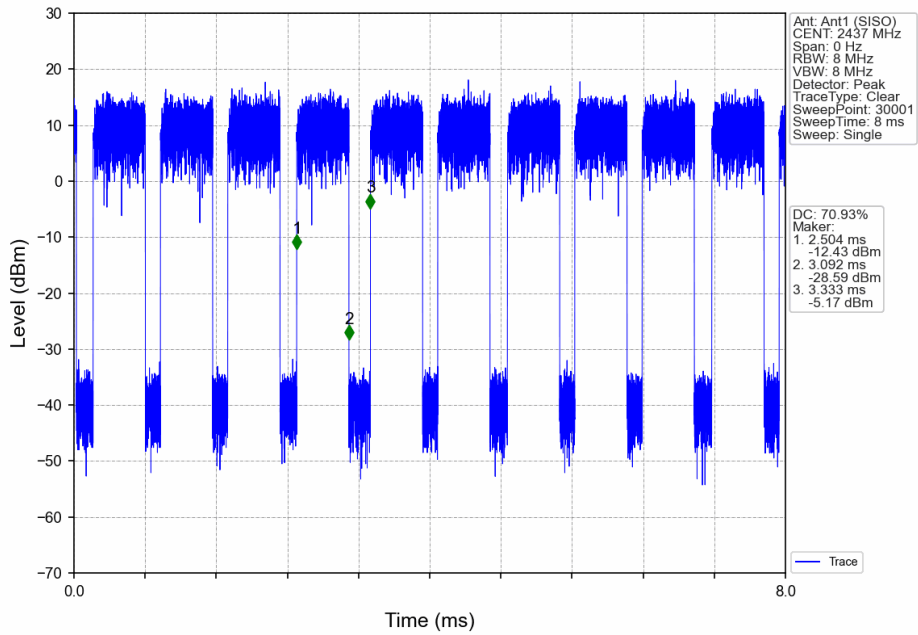
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



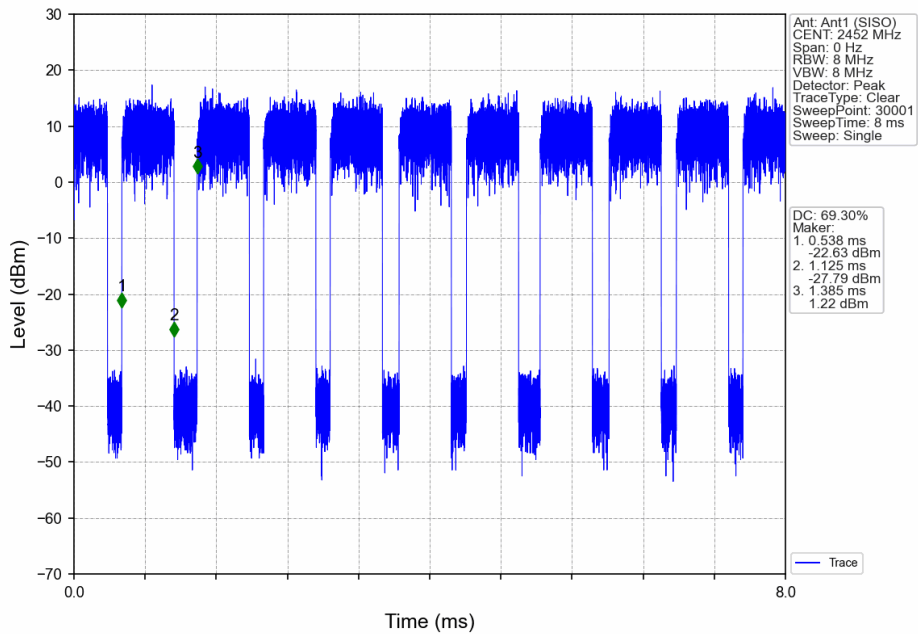
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.468	/	Pass
		2437	1	12.559	/	Pass
		2462	1	11.942	/	Pass
802.11g	SISO	2412	1	17.760	/	Pass
		2437	1	21.301	/	Pass
		2462	1	17.853	/	Pass
802.11n (HT20)	SISO	2412	1	19.406	/	Pass
		2437	1	20.633	/	Pass
		2462	1	18.624	/	Pass
802.11n (HT40)	SISO	2422	1	36.666	/	Pass
		2437	1	44.495	/	Pass
		2452	1	38.250	/	Pass

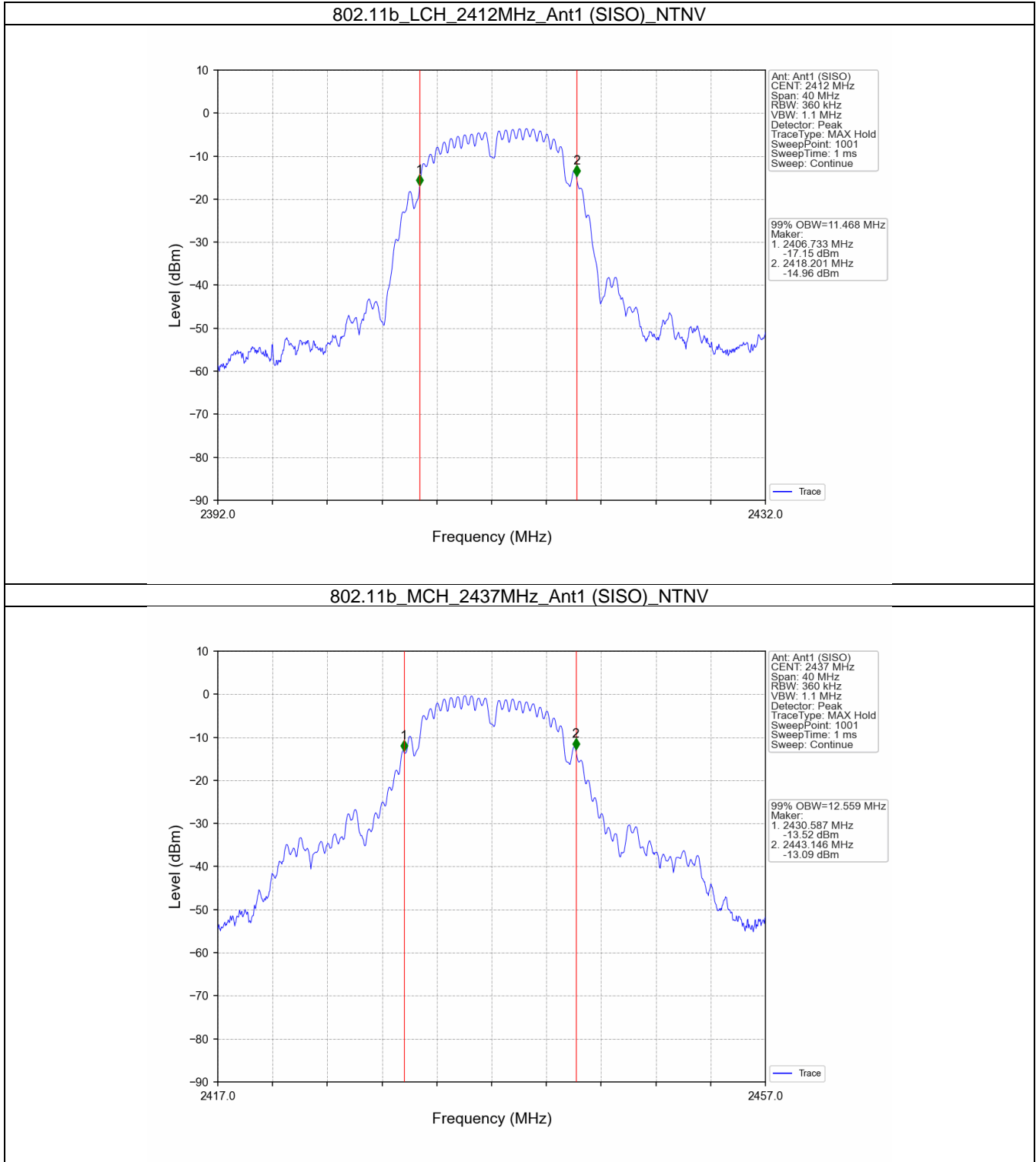
#### 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	9.130	$\geq 0.5$	Pass
		2437	1	9.581	$\geq 0.5$	Pass
		2462	1	10.095	$\geq 0.5$	Pass
802.11g	SISO	2412	1	15.717	$\geq 0.5$	Pass
		2437	1	15.785	$\geq 0.5$	Pass
		2462	1	16.383	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	16.329	$\geq 0.5$	Pass
		2437	1	16.308	$\geq 0.5$	Pass
		2462	1	17.317	$\geq 0.5$	Pass
802.11n (HT40)	SISO	2422	1	34.269	$\geq 0.5$	Pass
		2437	1	35.809	$\geq 0.5$	Pass
		2452	1	34.415	$\geq 0.5$	Pass



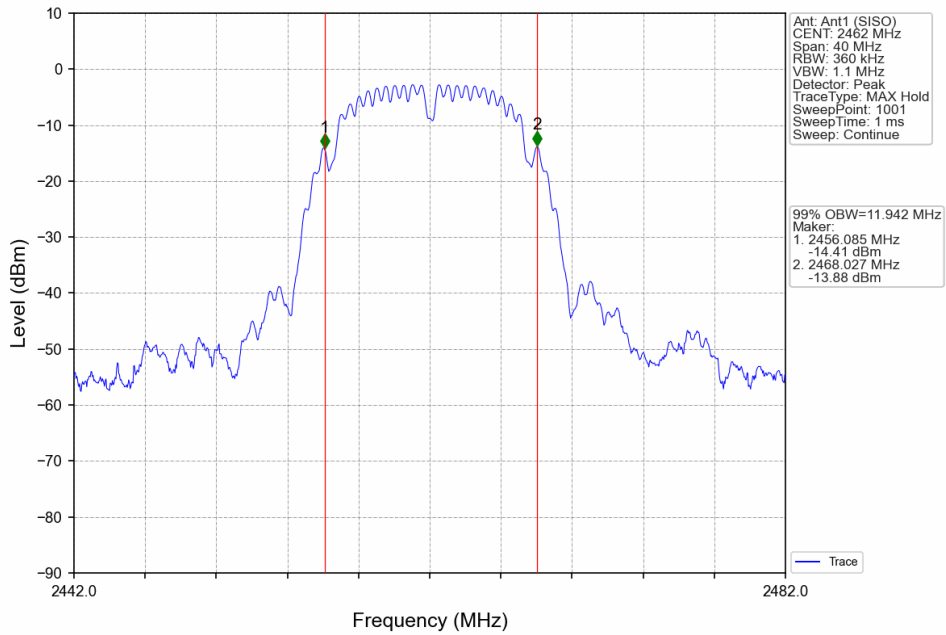
## 2.2 Test Graph

### 2.2.1 OBW

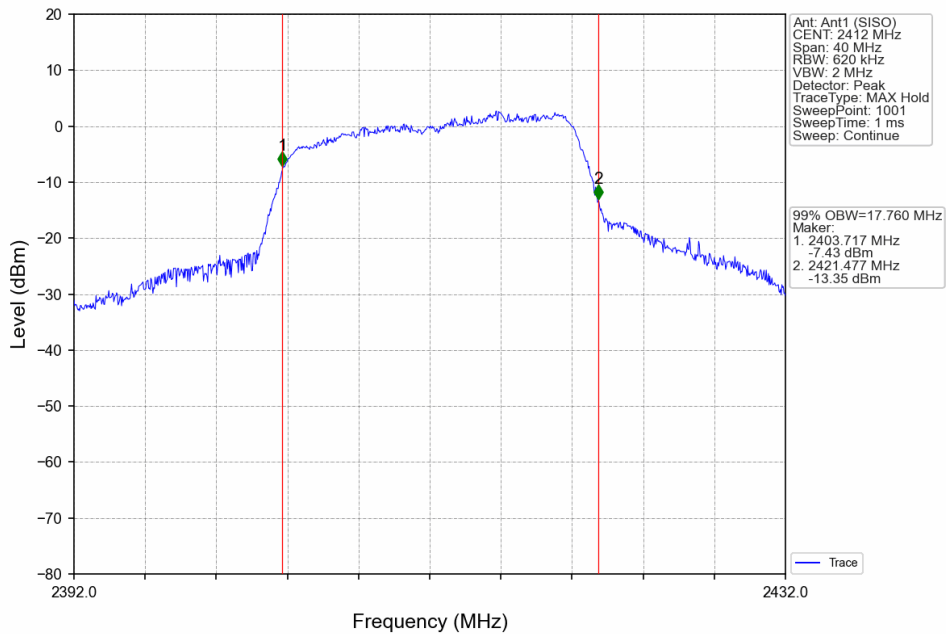




802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

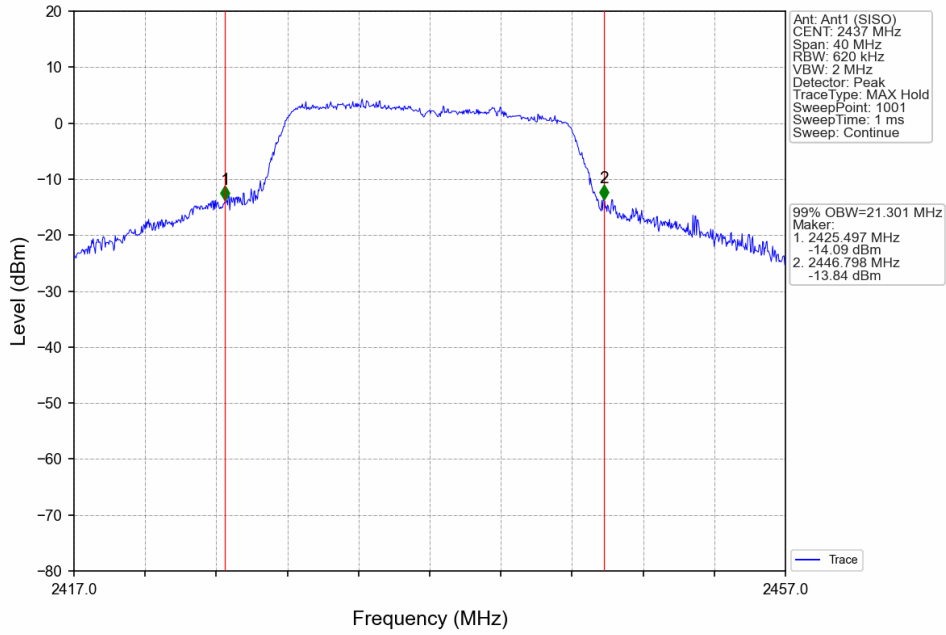


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

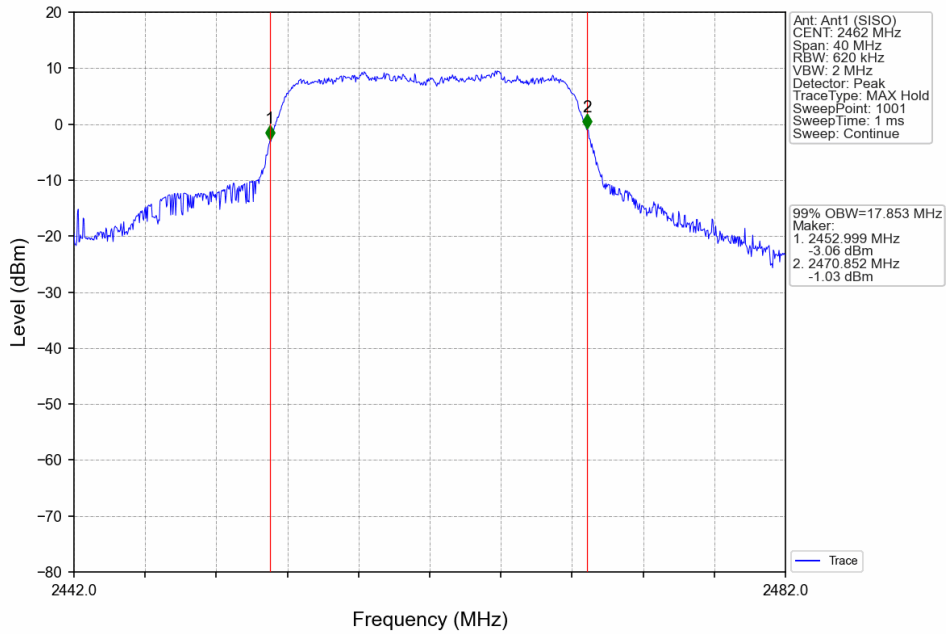




802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

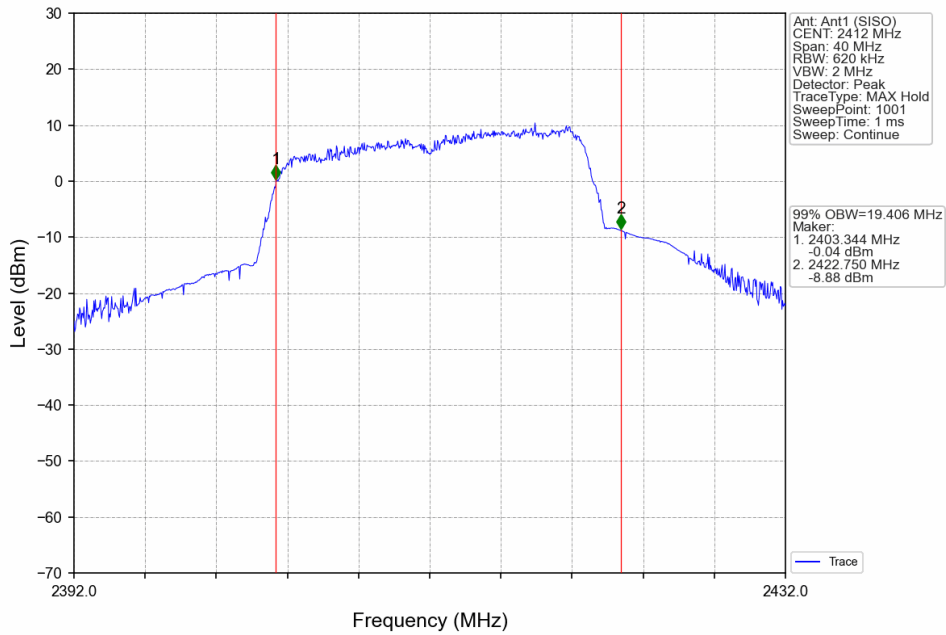


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

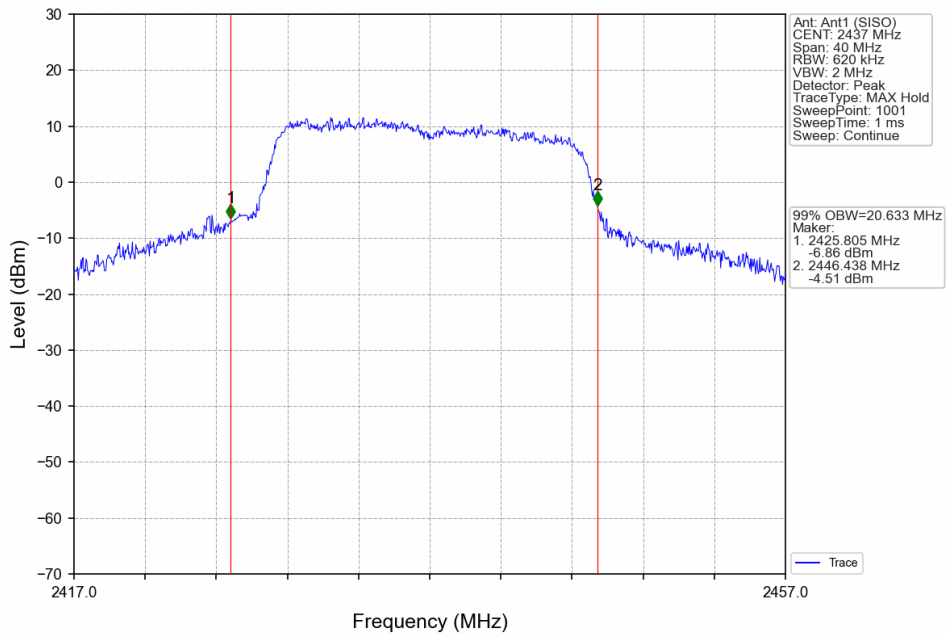




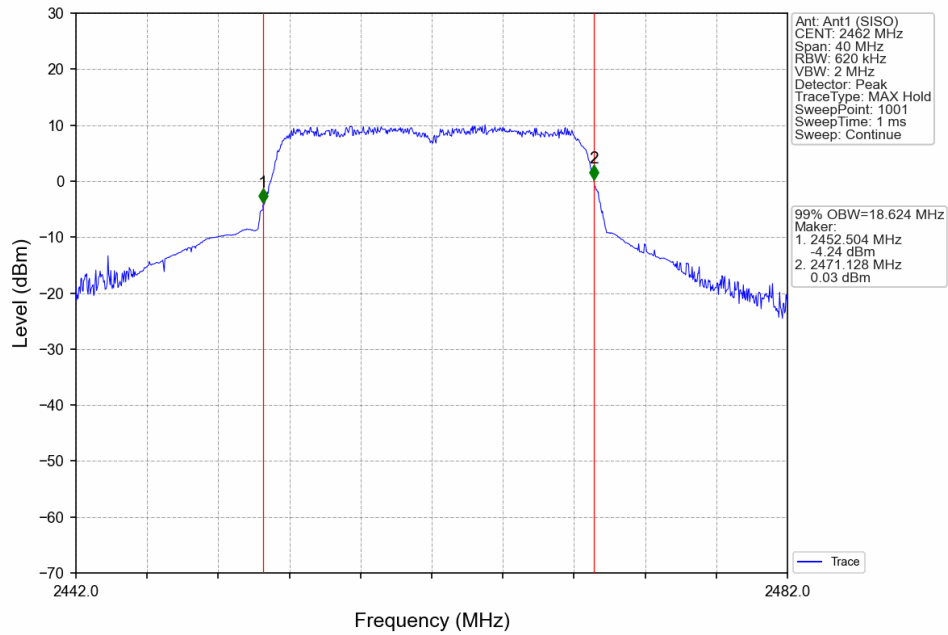
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



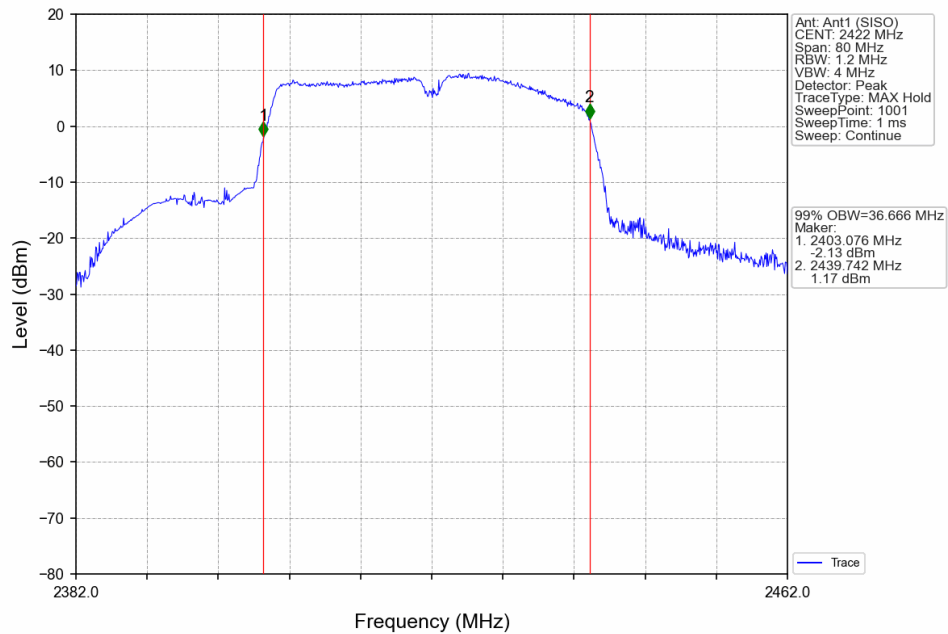
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



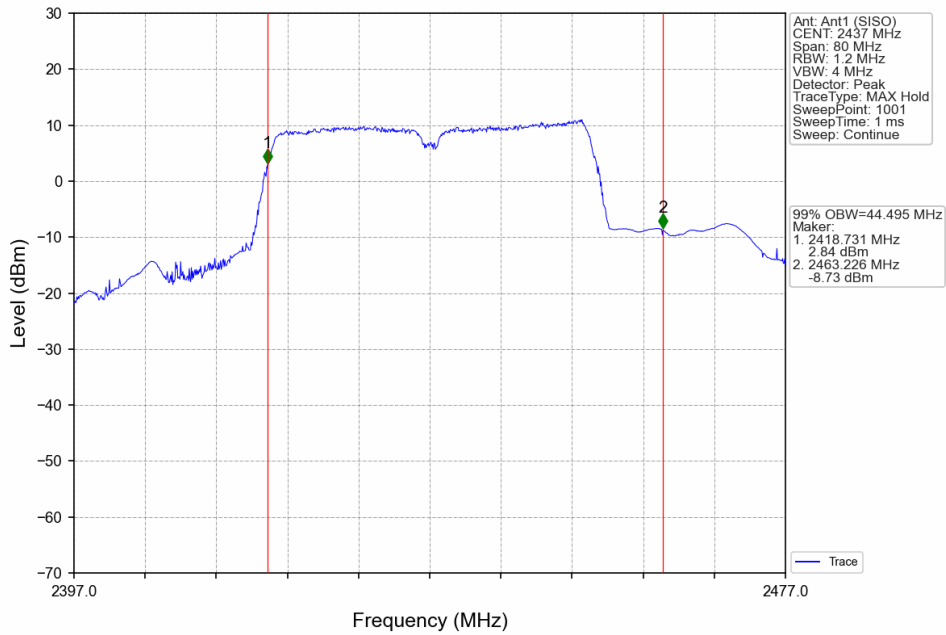
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



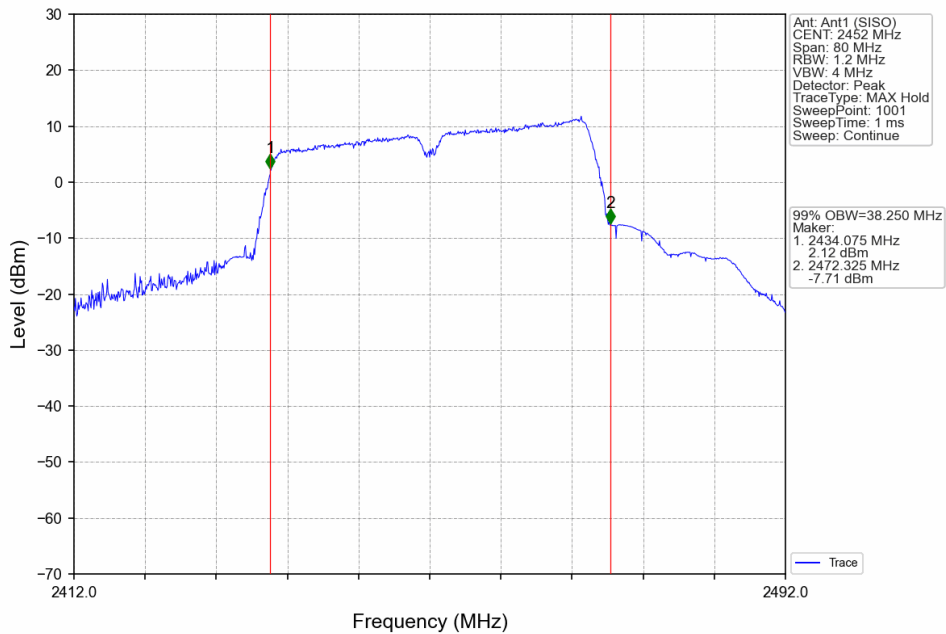
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



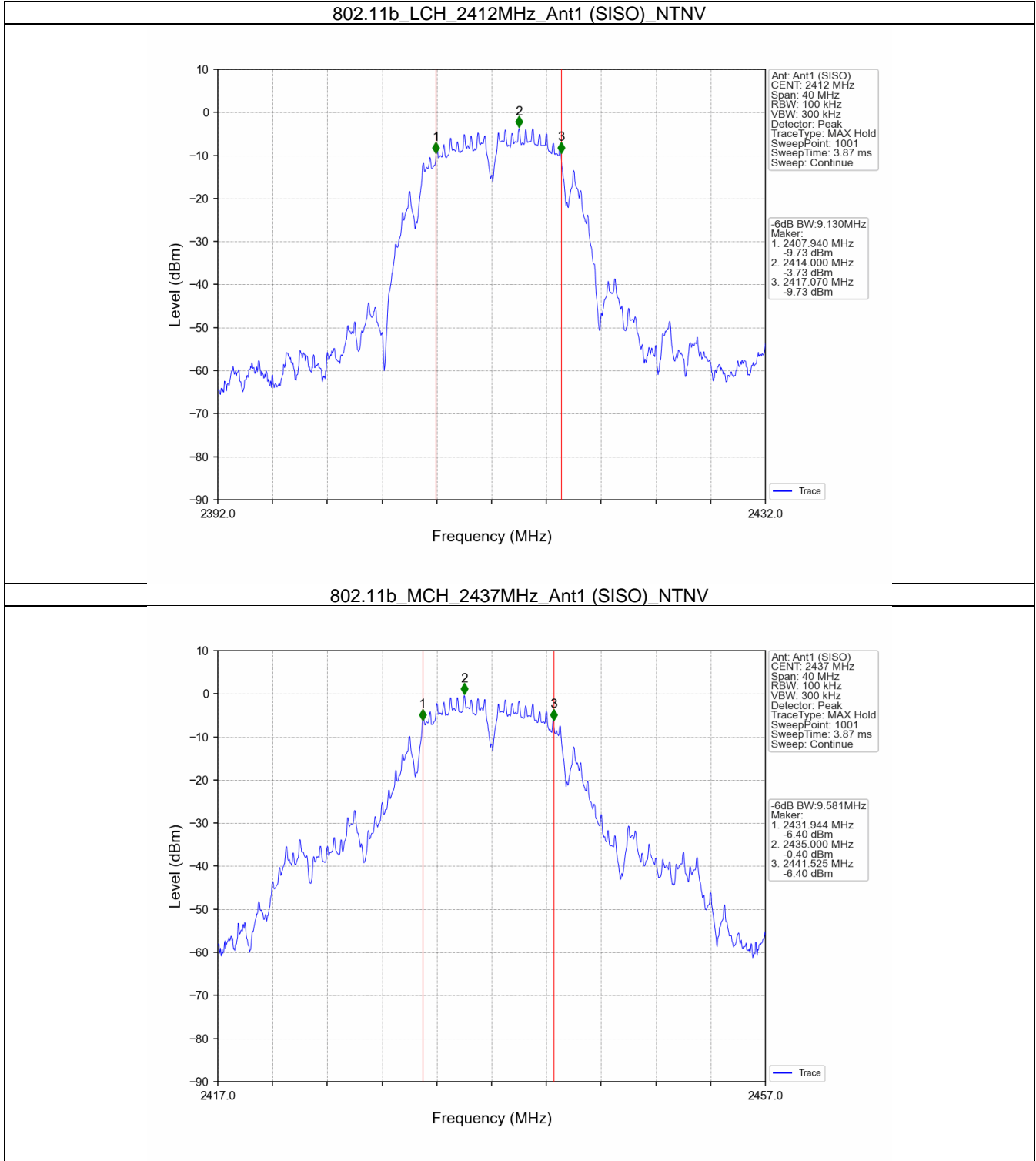
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

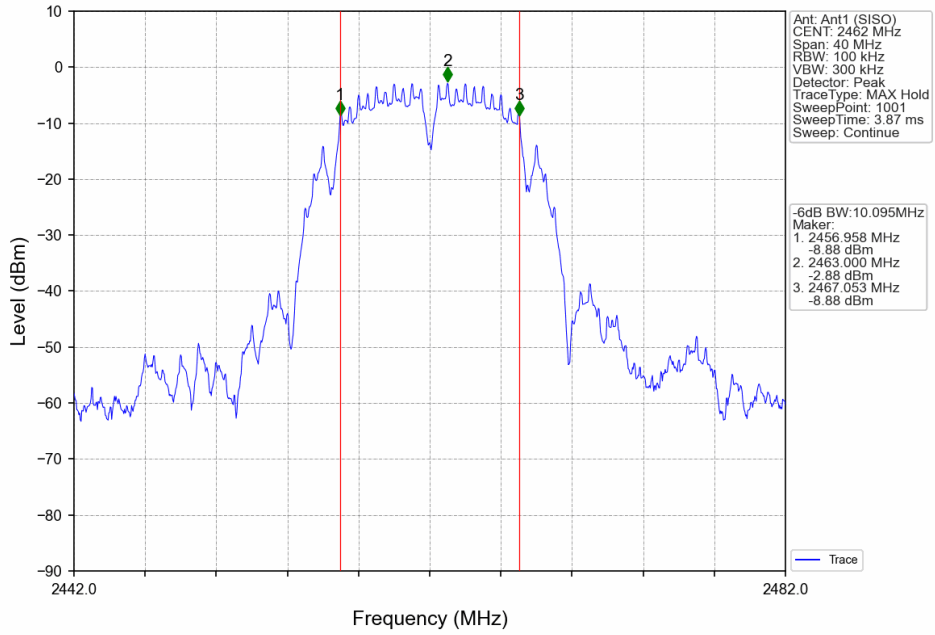


### 2.2.2 6dB BW

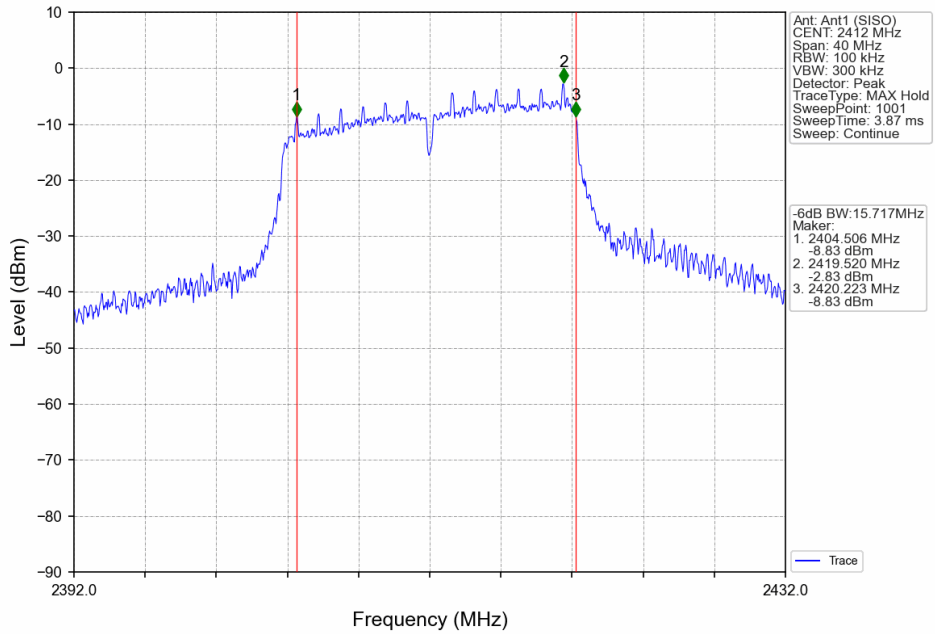




802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

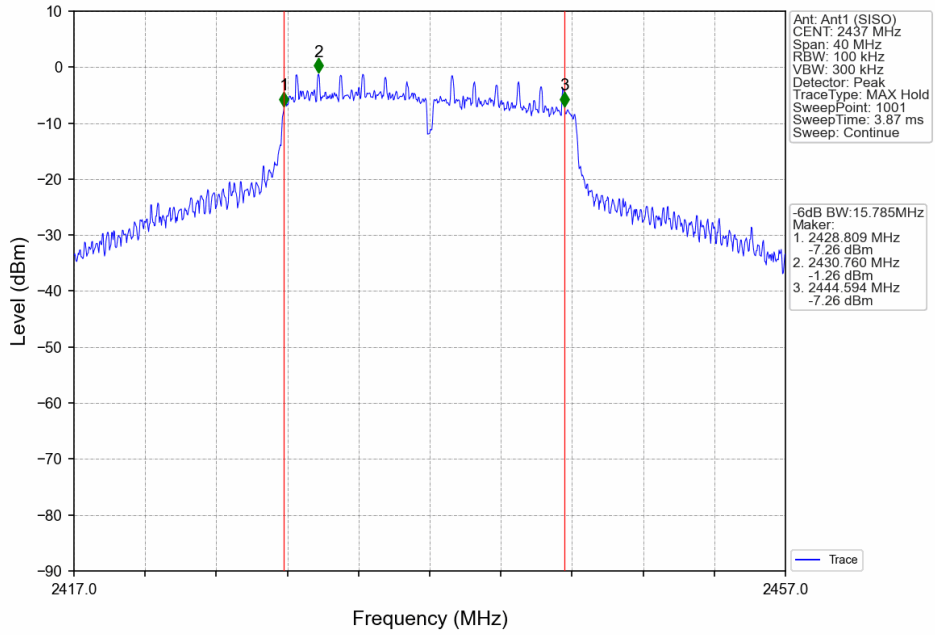


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

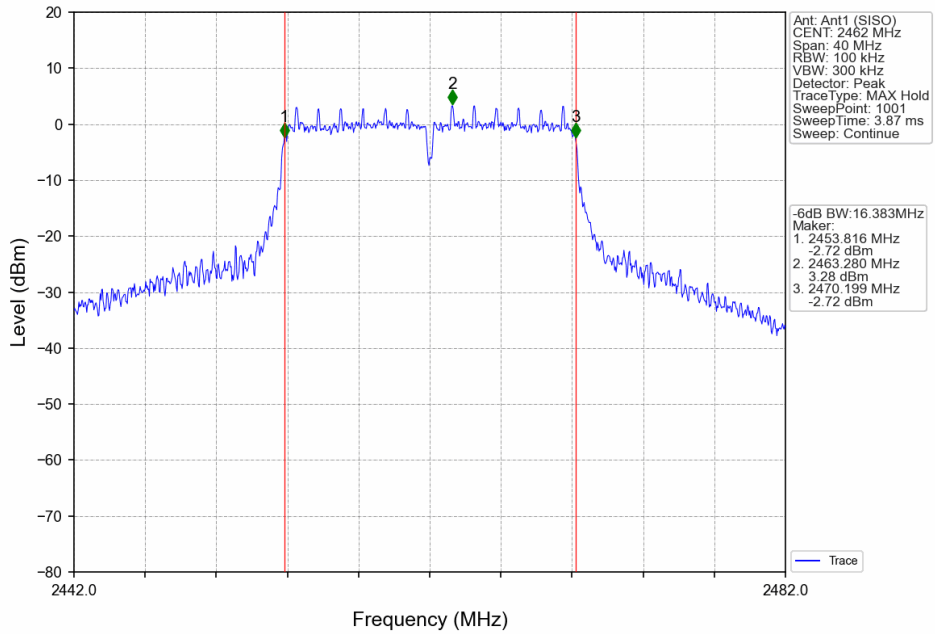




802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

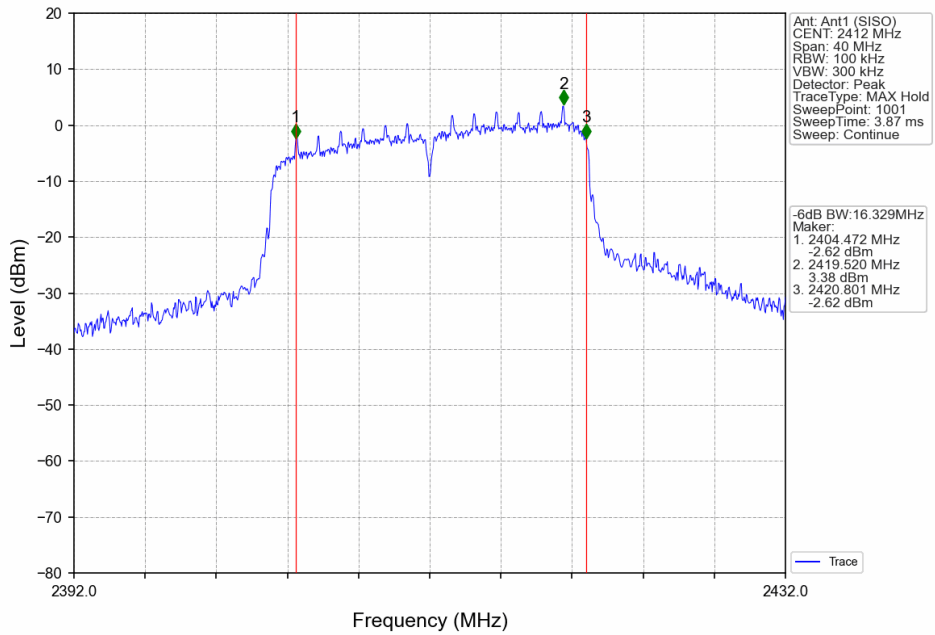


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

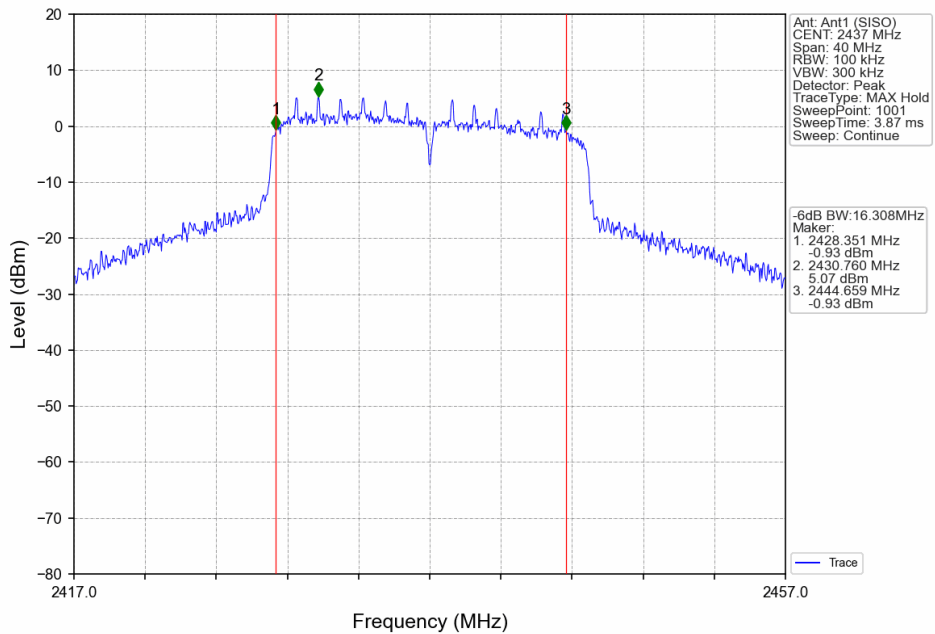




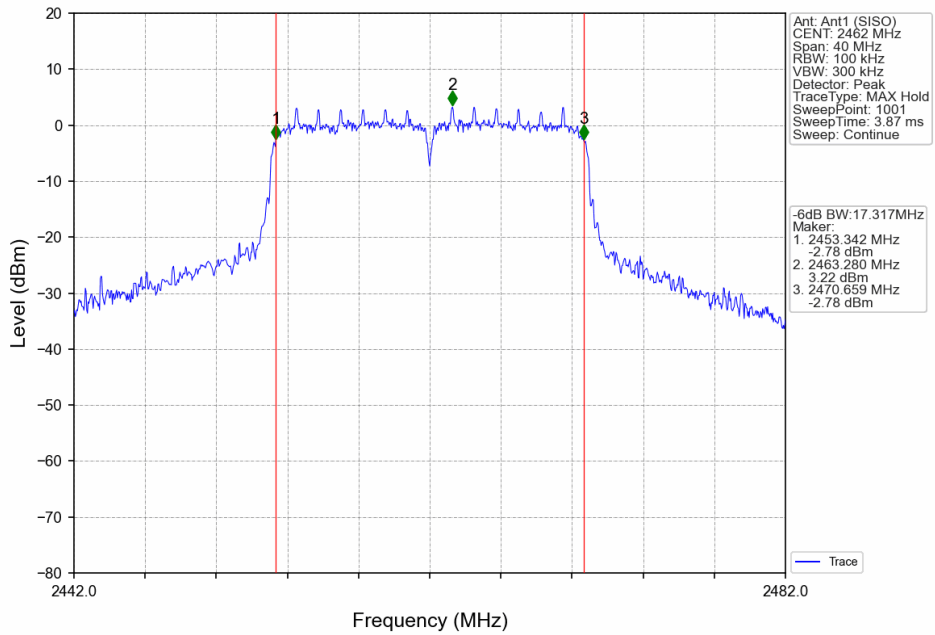
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



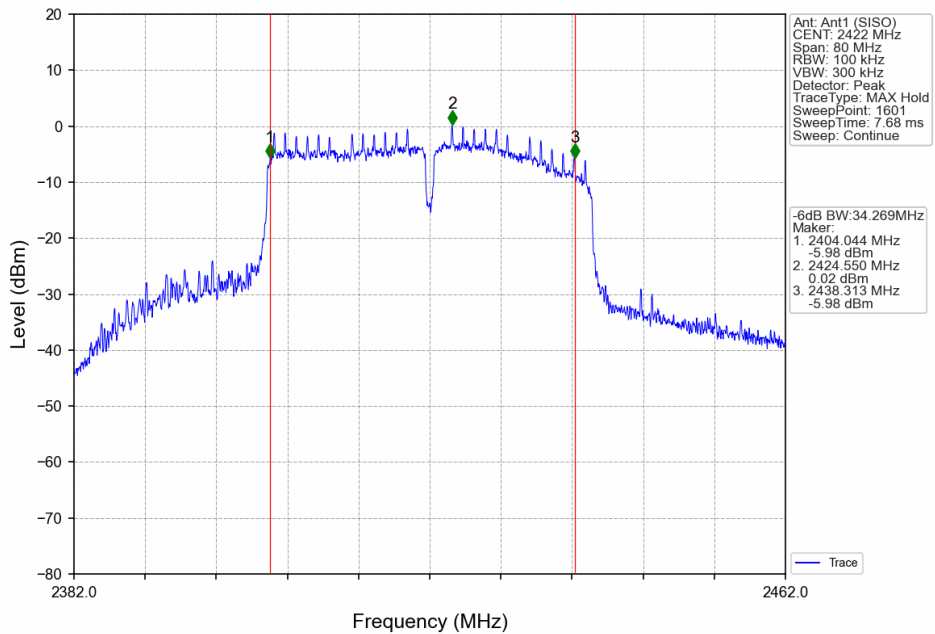
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



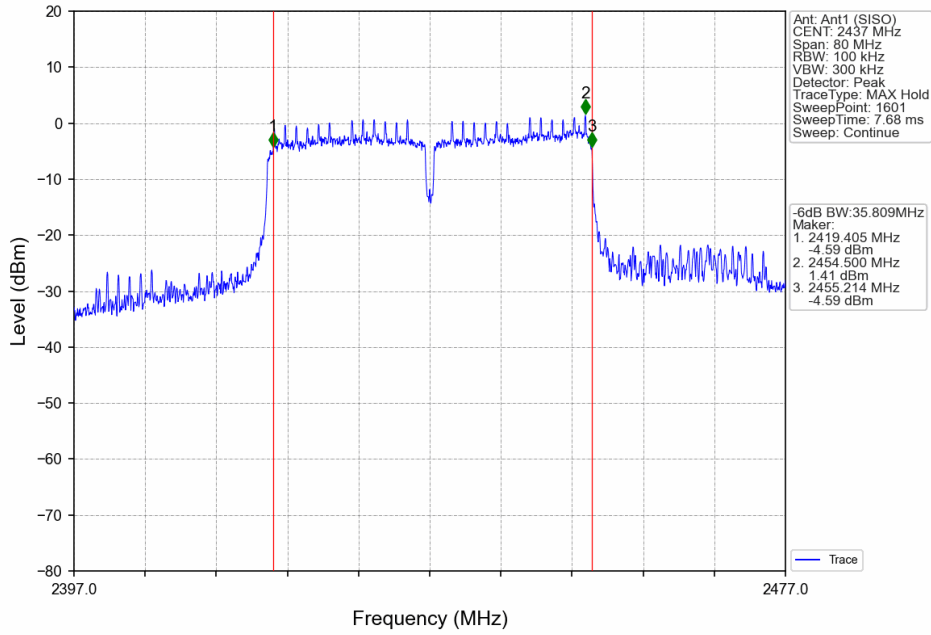
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



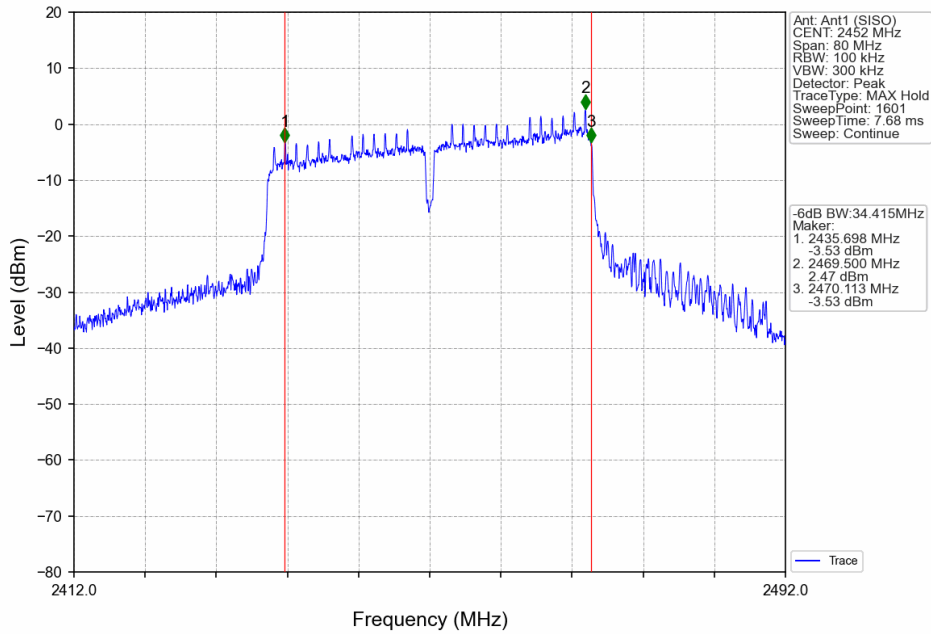
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV





### 3. Maximum Conducted Output Power

#### 3.1 Test Result

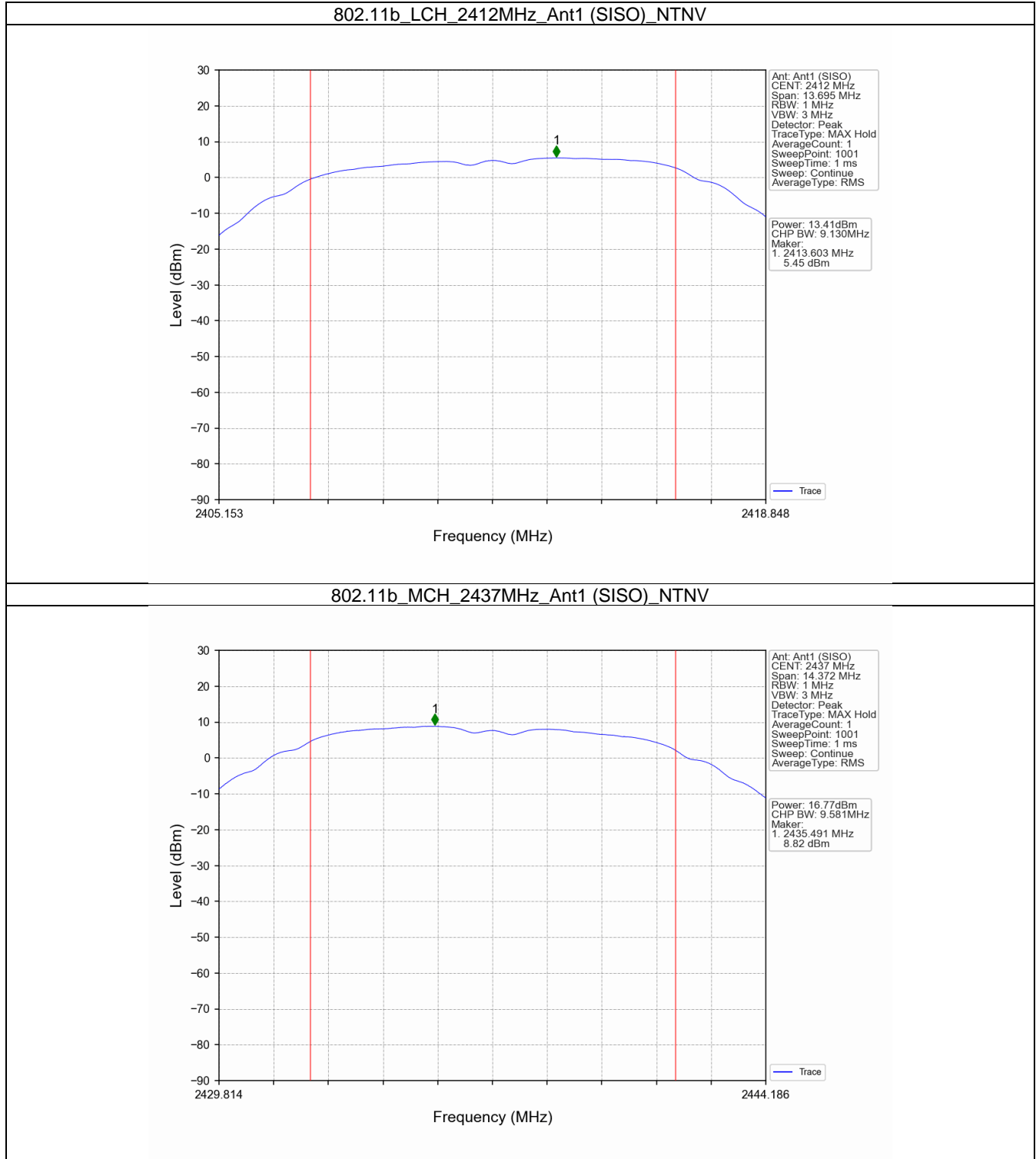
##### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	13.41	<=30	Pass
		2437	16.77	<=30	Pass
		2462	15.91	<=30	Pass
802.11g	SISO	2412	20.40	<=30	Pass
		2437	22.68	<=30	Pass
		2462	22.32	<=30	Pass
802.11n (HT20)	SISO	2412	20.93	<=30	Pass
		2437	23.05	<=30	Pass
		2462	22.86	<=30	Pass
802.11n (HT40)	SISO	2422	21.08	<=30	Pass
		2437	23.08	<=30	Pass
		2452	22.12	<=30	Pass

Note1: Antenna Gain: Ant1: 1.37dBi;

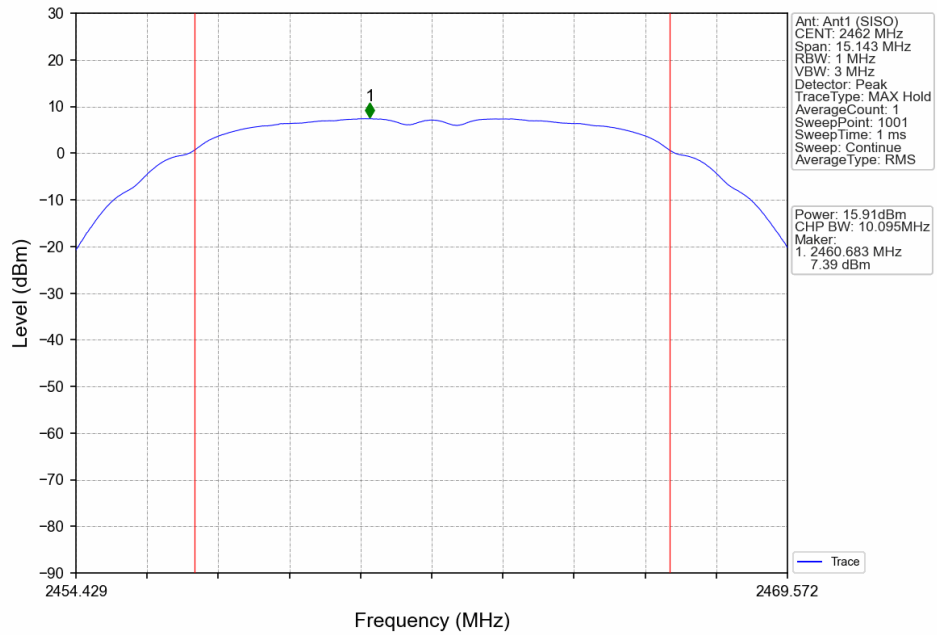
### 3.2 Test Graph

#### 3.2.1 Power

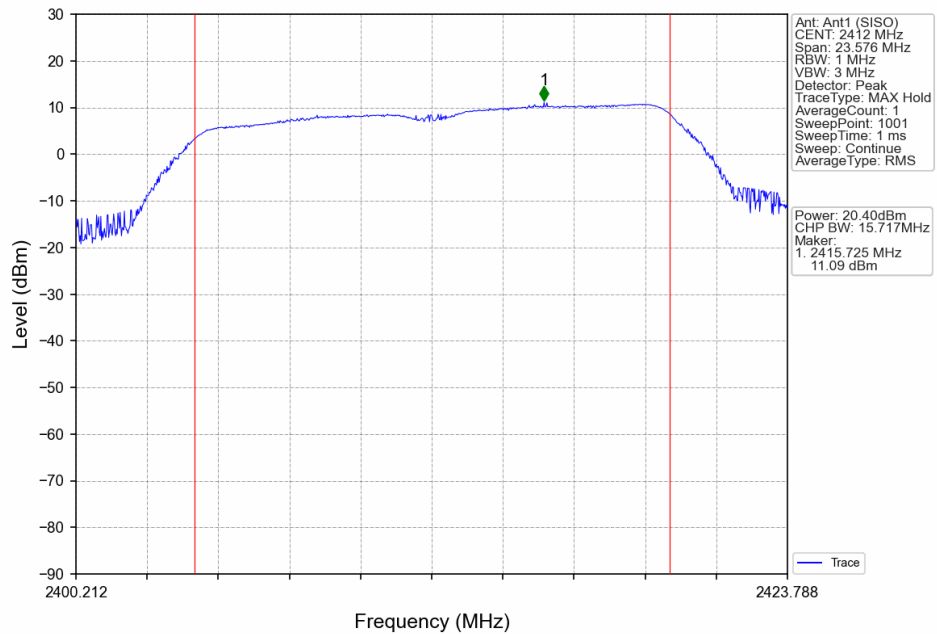




802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

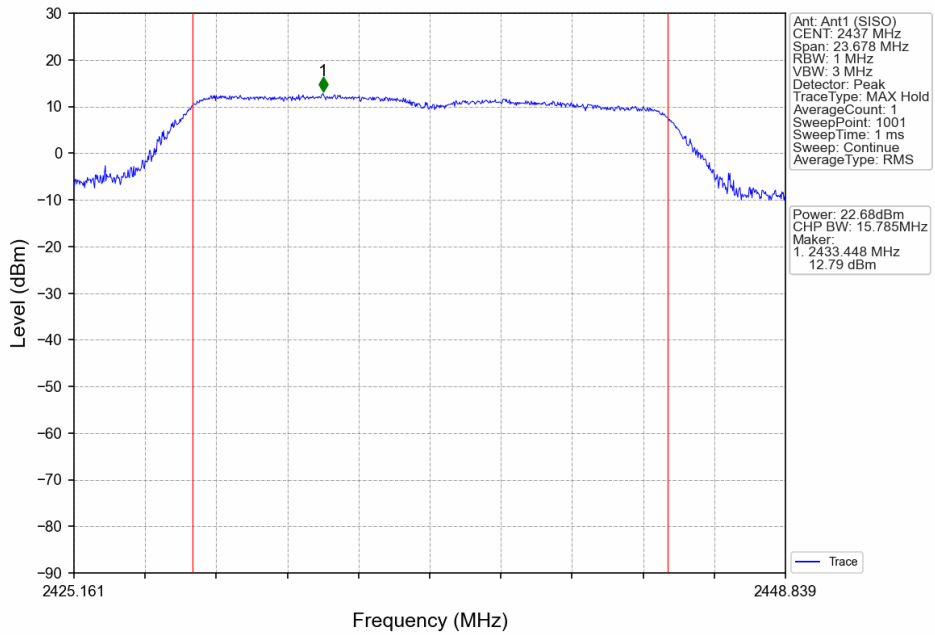


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

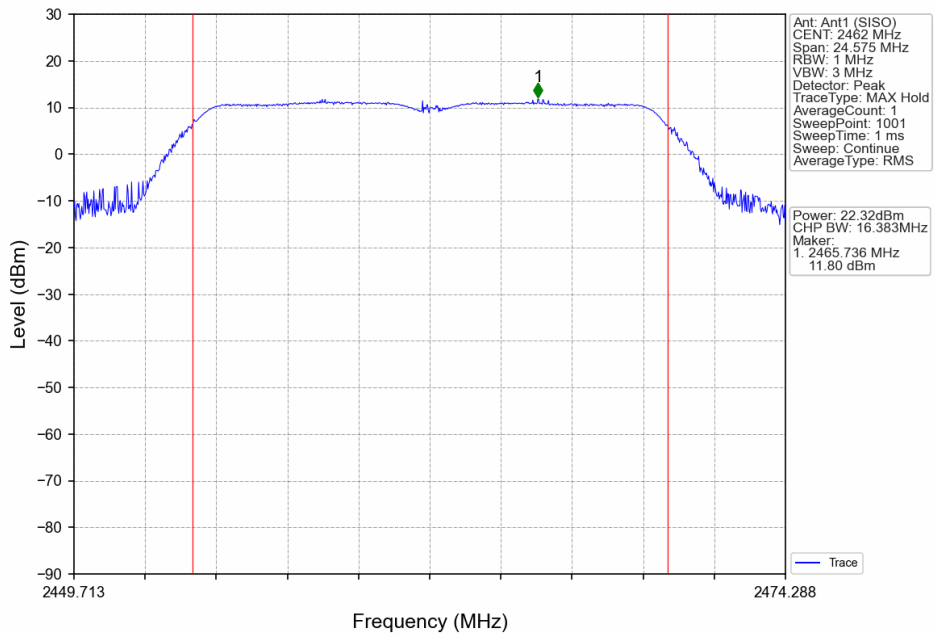




802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

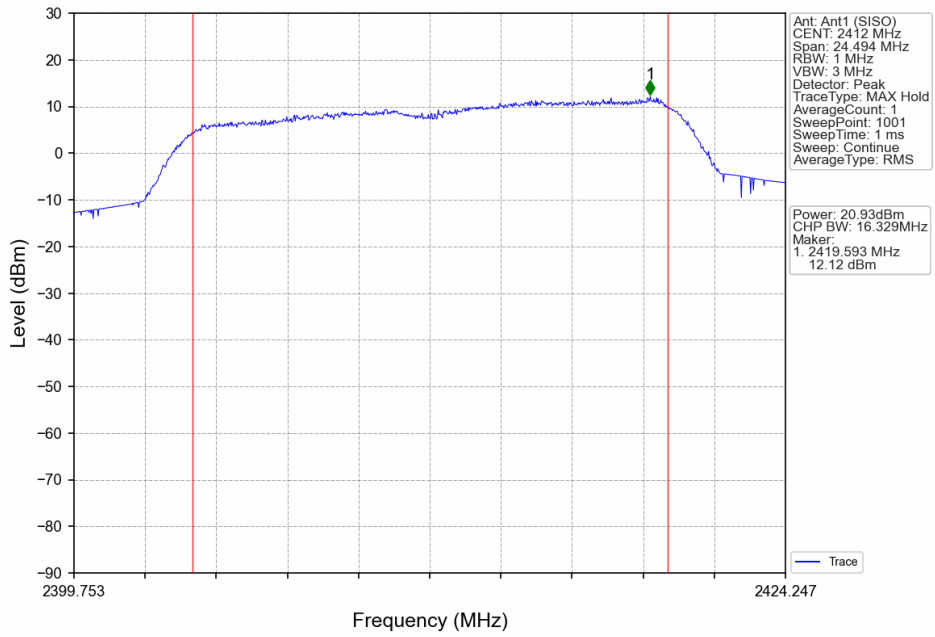


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

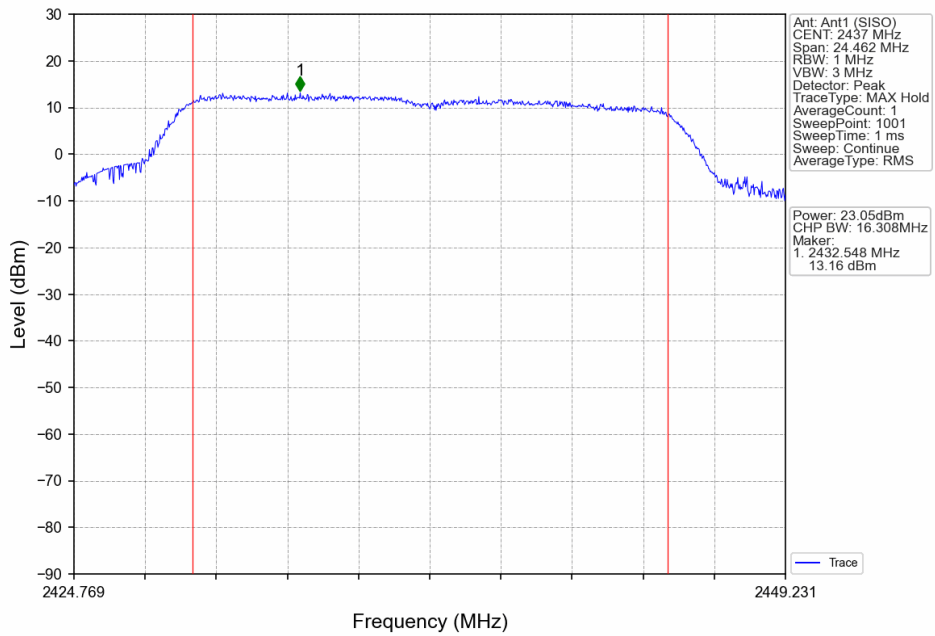




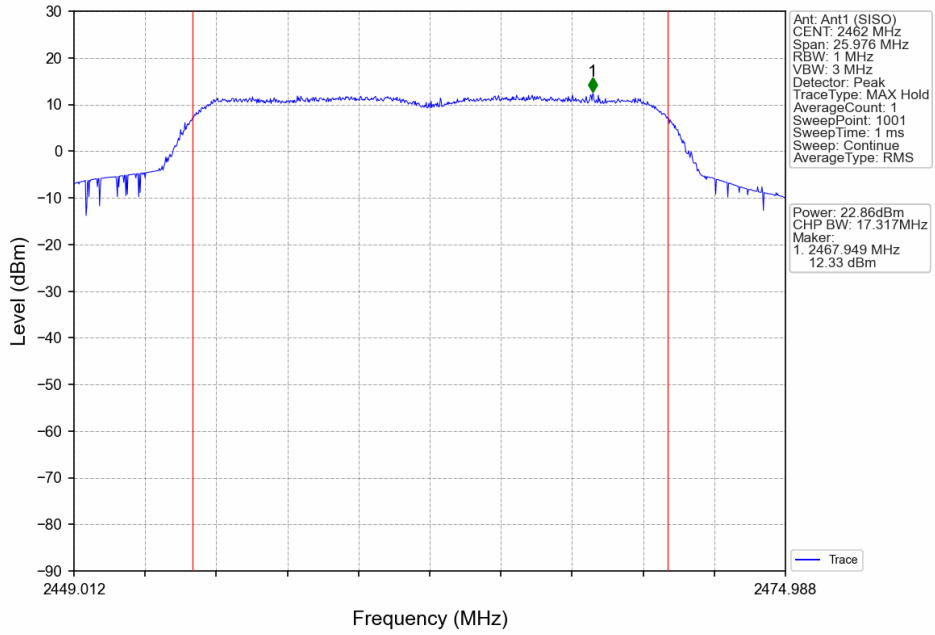
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



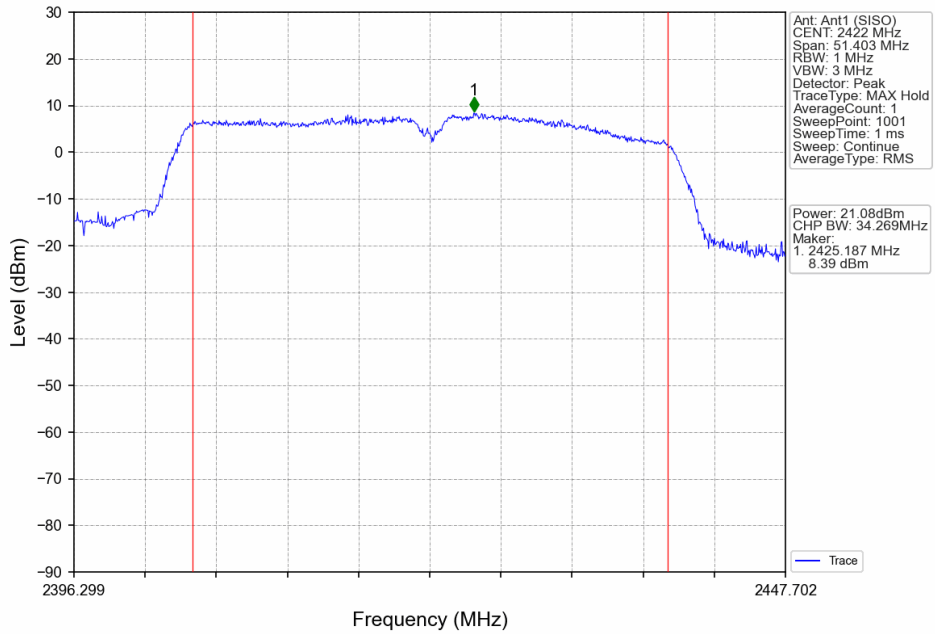
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



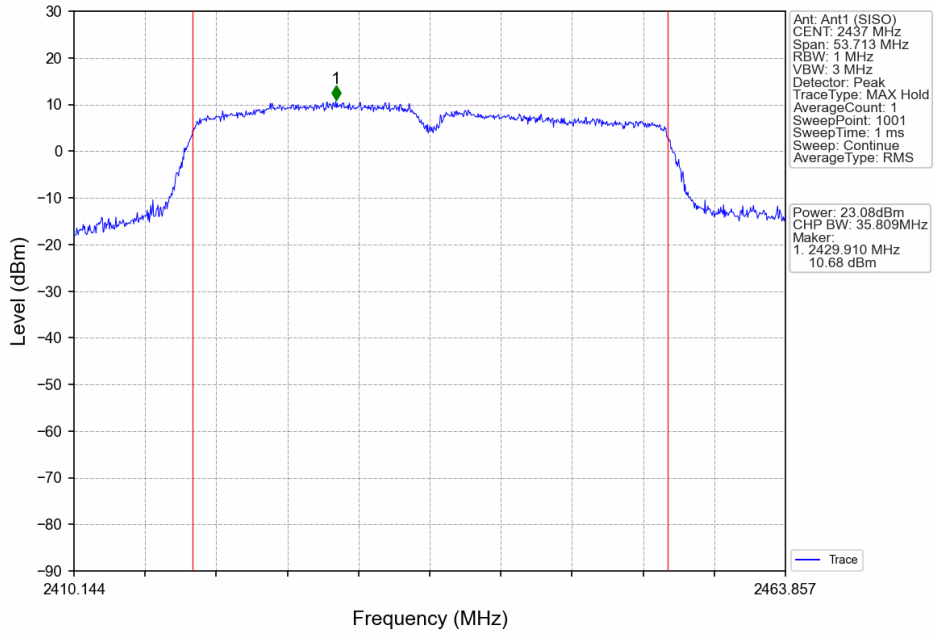
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



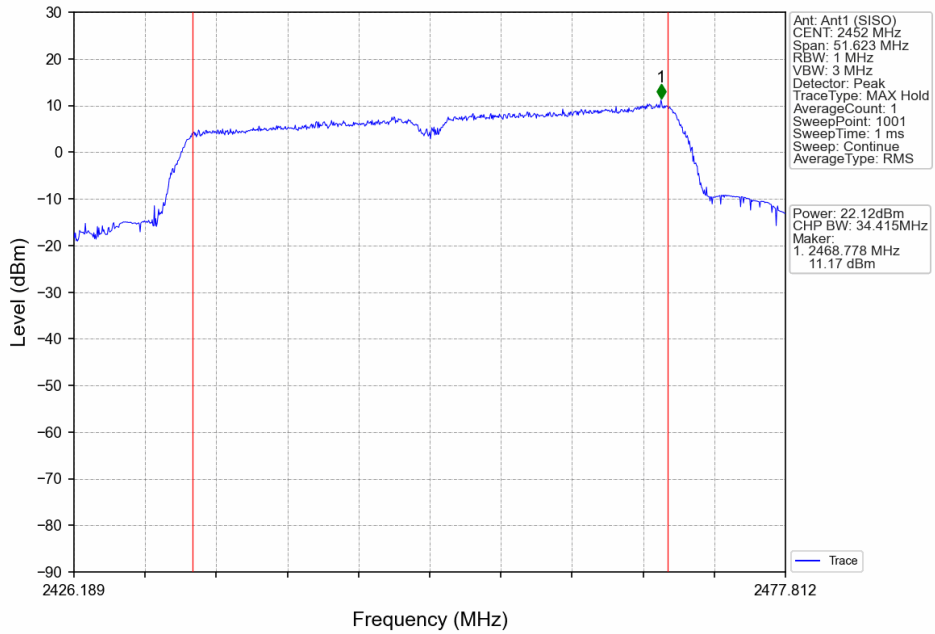
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



## 4. Maximum Power Spectral Density

### 4.1 Test Result

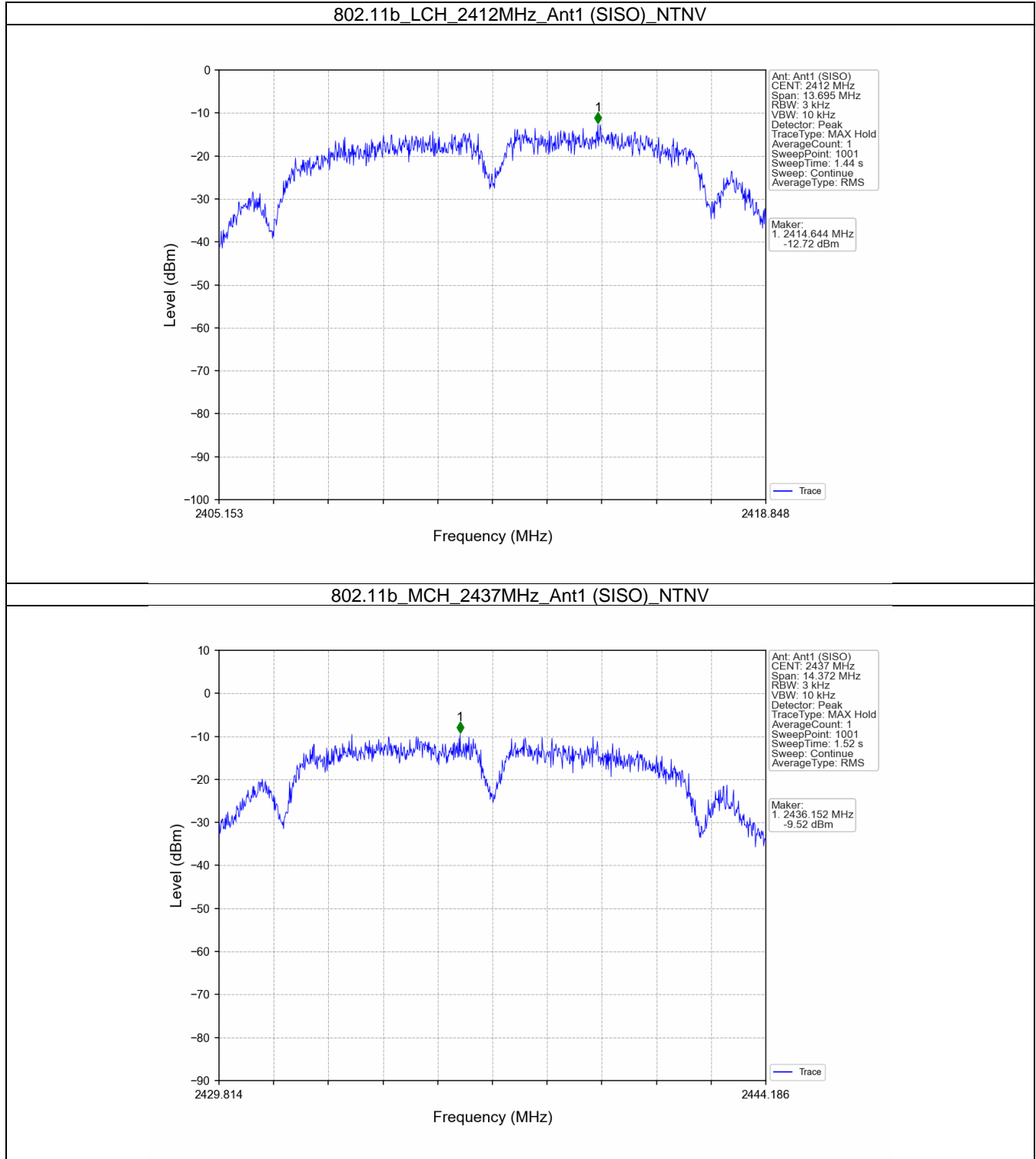
#### 4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-12.72	<=8	Pass
		2437	-9.52	<=8	Pass
		2462	-10.96	<=8	Pass
802.11g	SISO	2412	-12.19	<=8	Pass
		2437	-10.73	<=8	Pass
		2462	-11.66	<=8	Pass
802.11n (HT20)	SISO	2412	-11.64	<=8	Pass
		2437	-10.89	<=8	Pass
		2462	-11.92	<=8	Pass
802.11n (HT40)	SISO	2422	-16.17	<=8	Pass
		2437	-13.15	<=8	Pass
		2452	-13.20	<=8	Pass

Note1: Antenna Gain: Ant1: 1.37dBi;

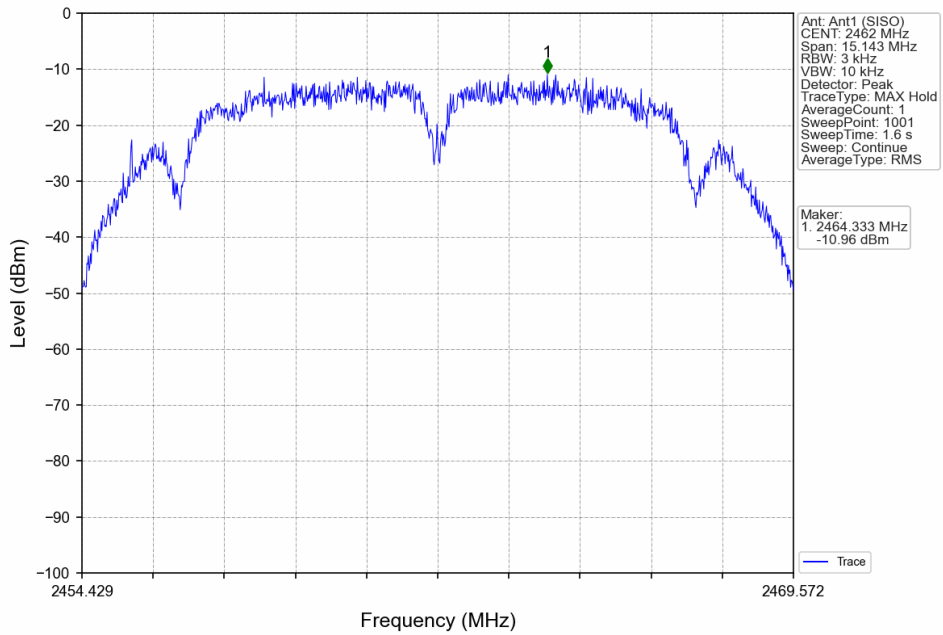
## 4.2 Test Graph

### 4.2.1 PSD

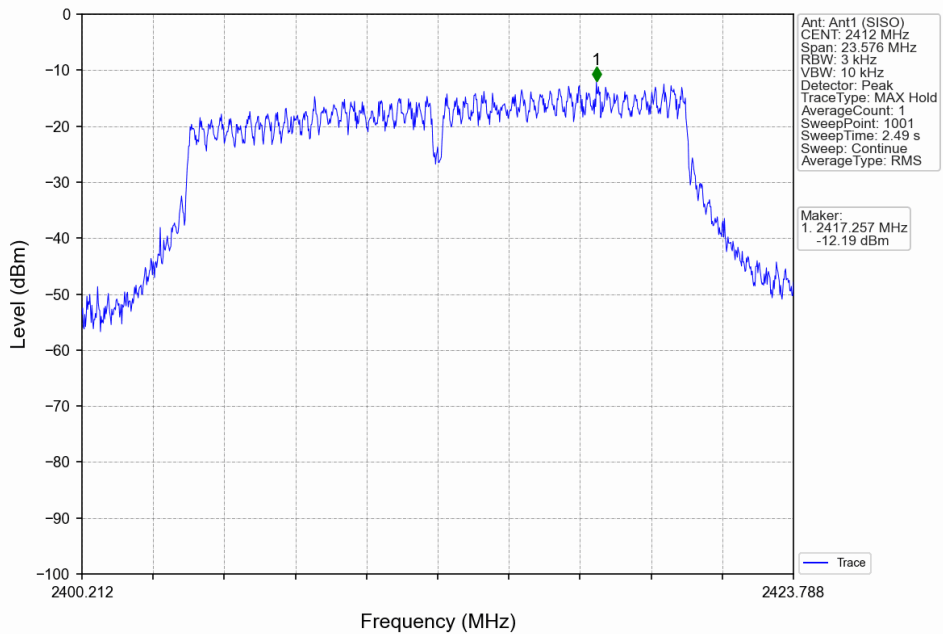




802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

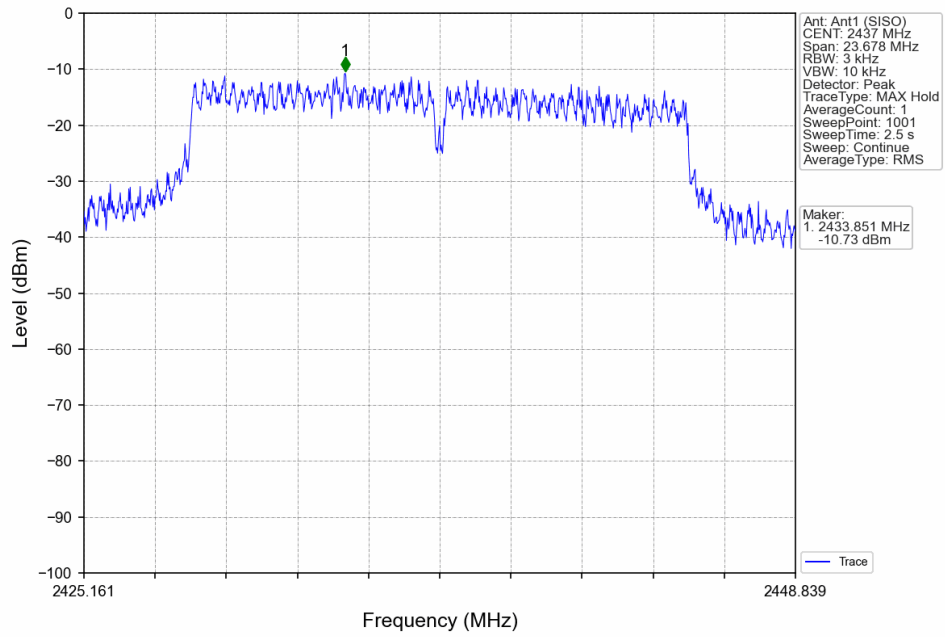


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

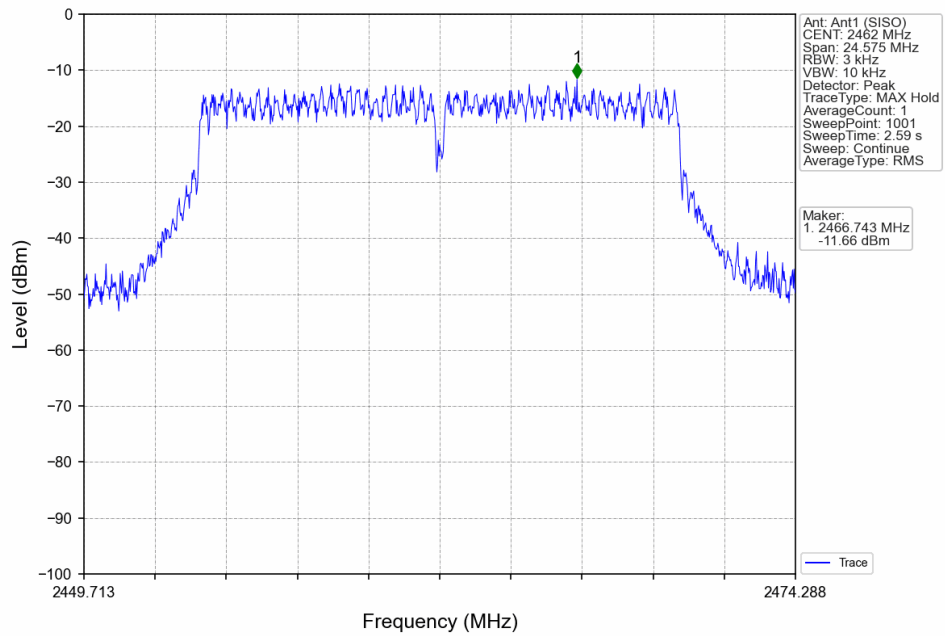




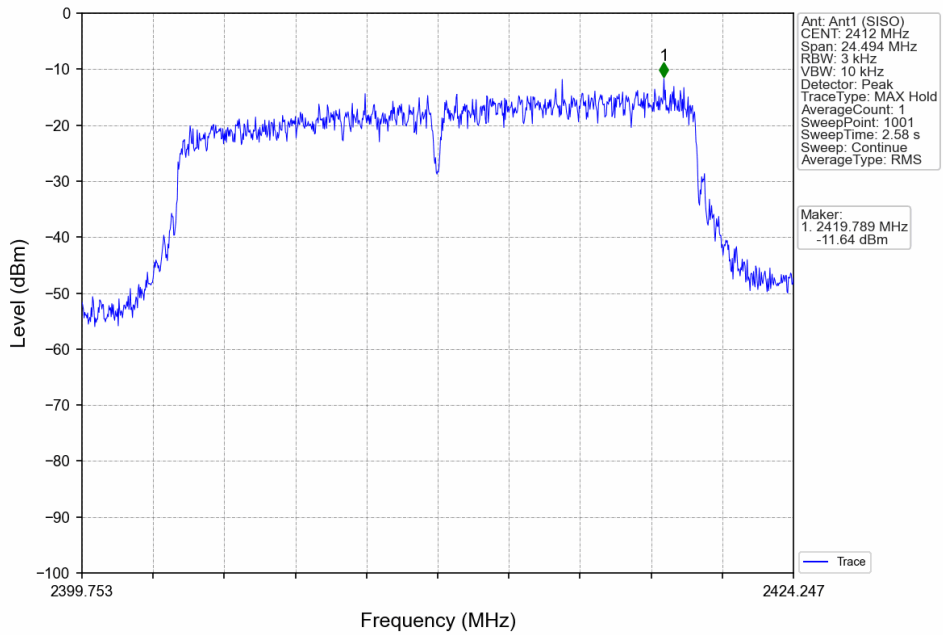
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



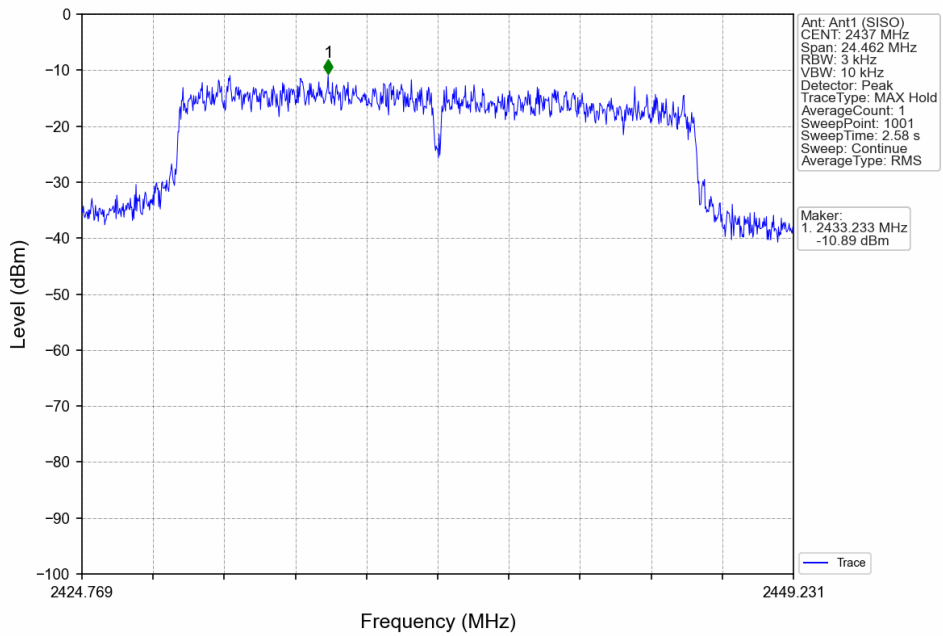
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

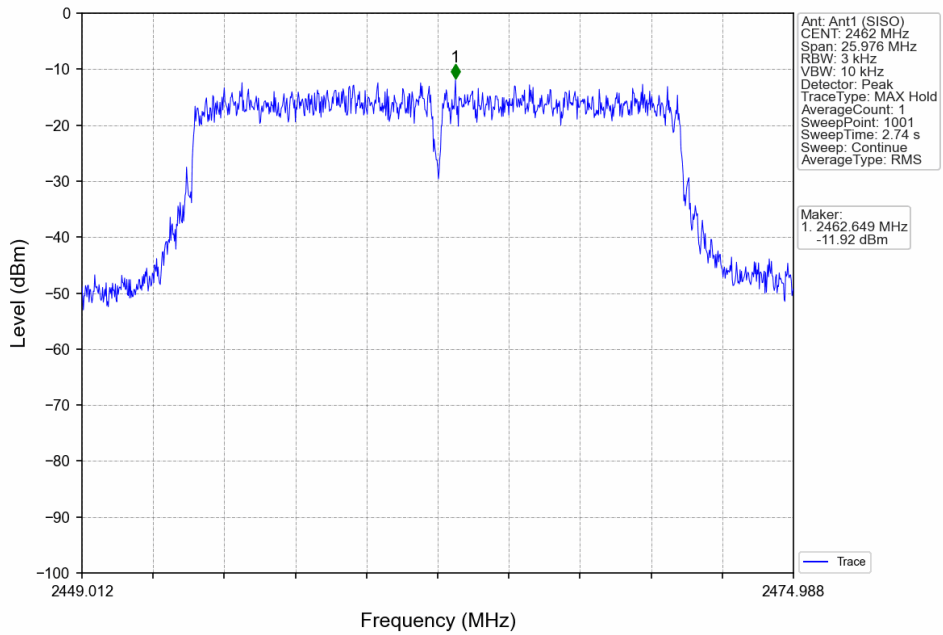


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

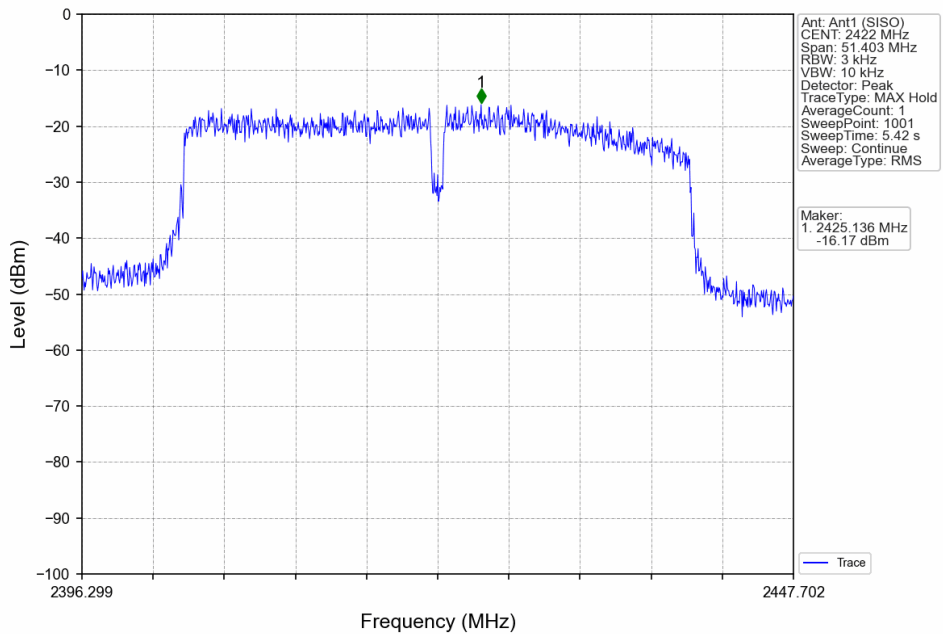




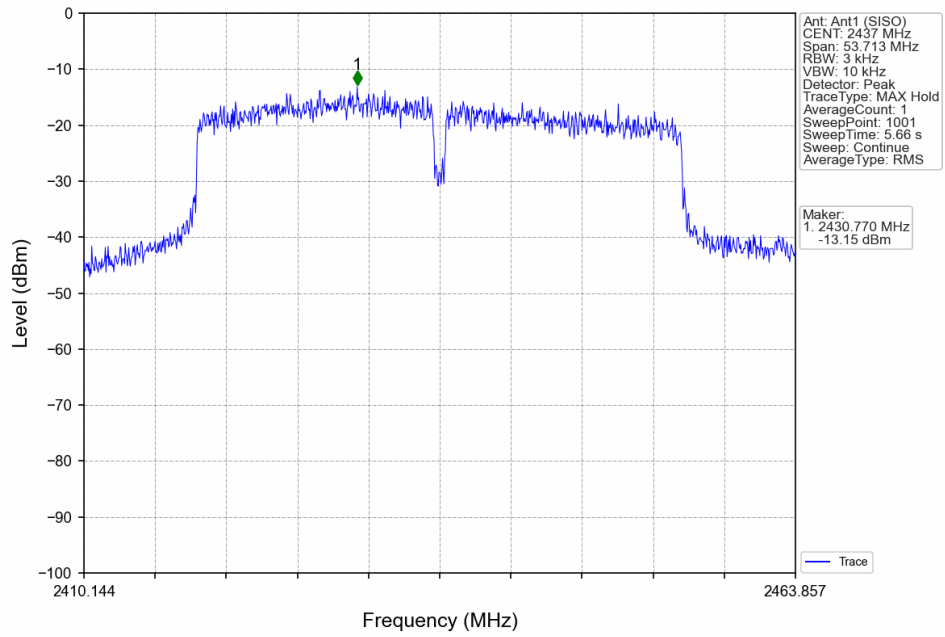
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



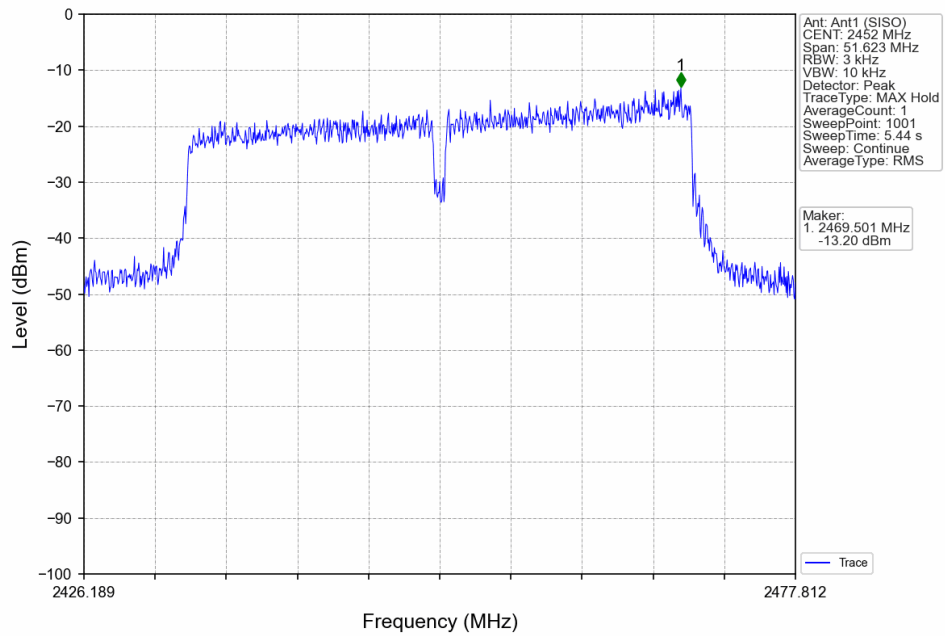
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	2.49
		2437	1	5.76
		2462	1	4.25
802.11g	SISO	2412	1	3.16
		2437	1	4.95
		2462	1	3.10
802.11n (HT20)	SISO	2412	1	2.99
		2437	1	4.99
		2462	1	2.93
802.11n (HT40)	SISO	2422	1	-0.01
		2437	1	2.92
		2452	1	2.41

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.

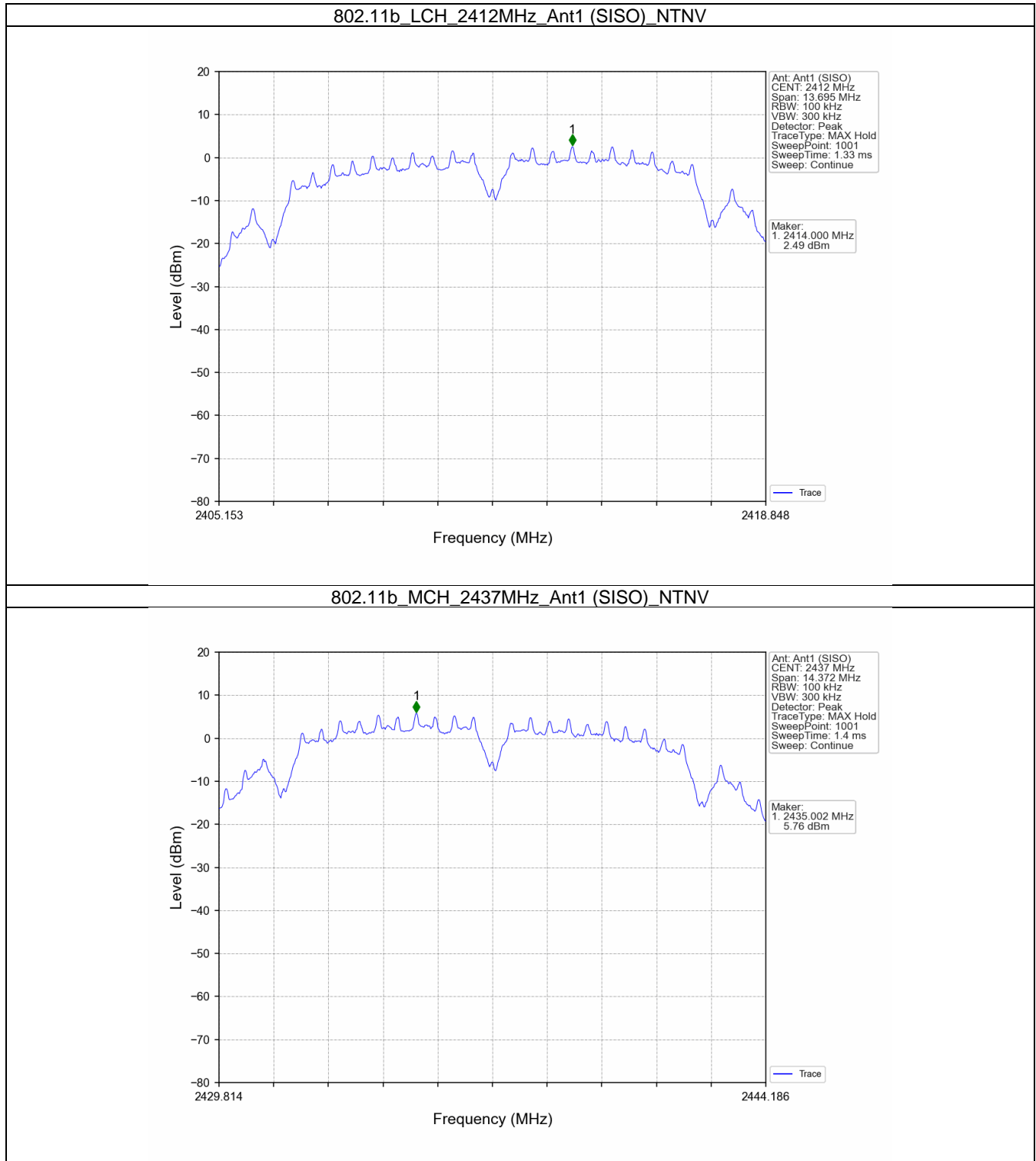
#### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.49	-17.51	Pass
		2437	1	5.76	-14.24	Pass
		2462	1	4.25	-15.75	Pass
802.11g	SISO	2412	1	3.16	-16.84	Pass
		2437	1	4.95	-15.05	Pass
		2462	1	3.10	-16.90	Pass
802.11n (HT20)	SISO	2412	1	2.99	-17.01	Pass
		2437	1	4.99	-15.01	Pass
		2462	1	2.93	-17.07	Pass
802.11n (HT40)	SISO	2422	1	-0.01	-20.01	Pass
		2437	1	2.92	-17.08	Pass
		2452	1	2.41	-17.59	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.

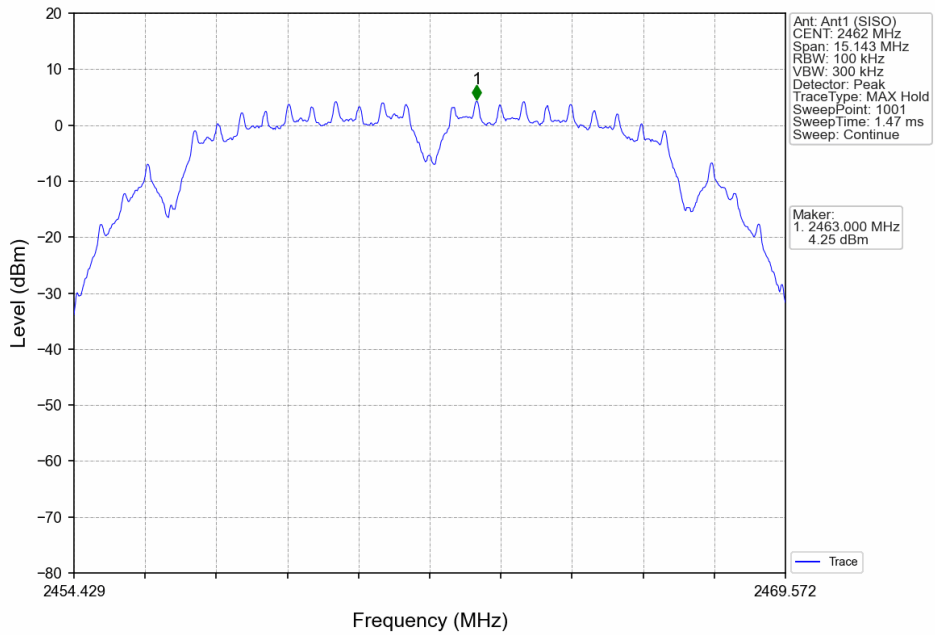
## 5.2 Test Graph

### 5.2.1 Ref

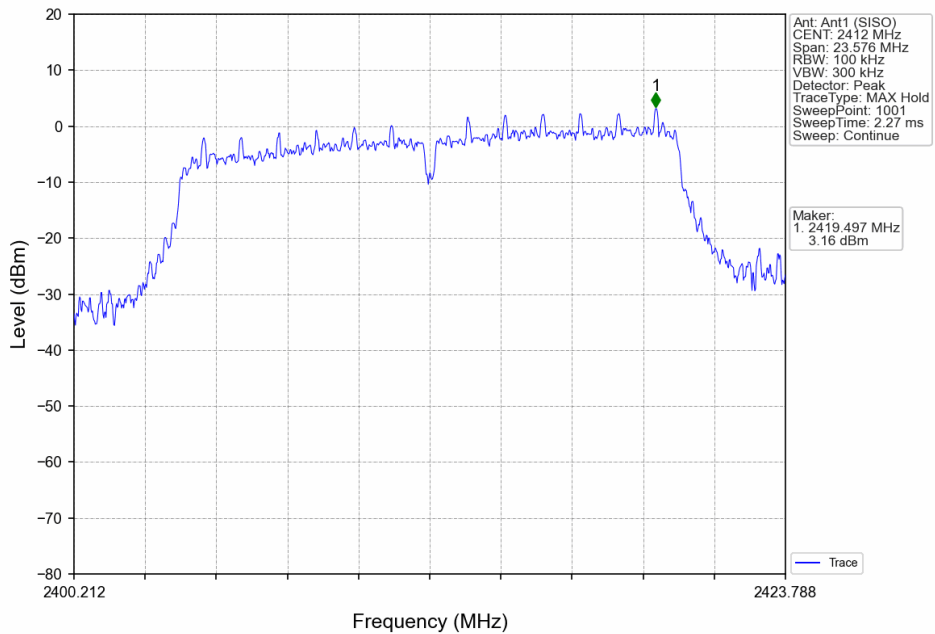




802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

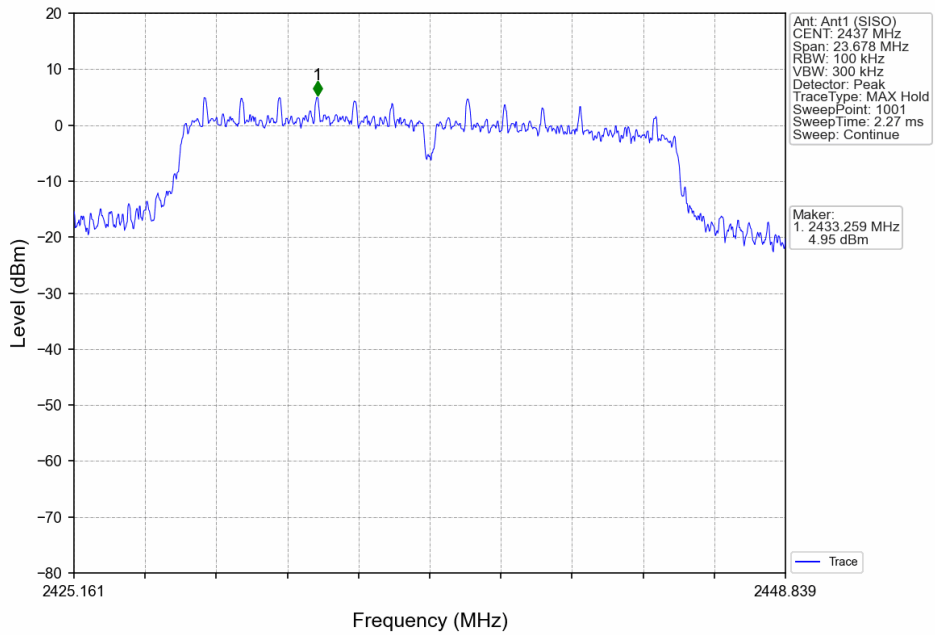


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

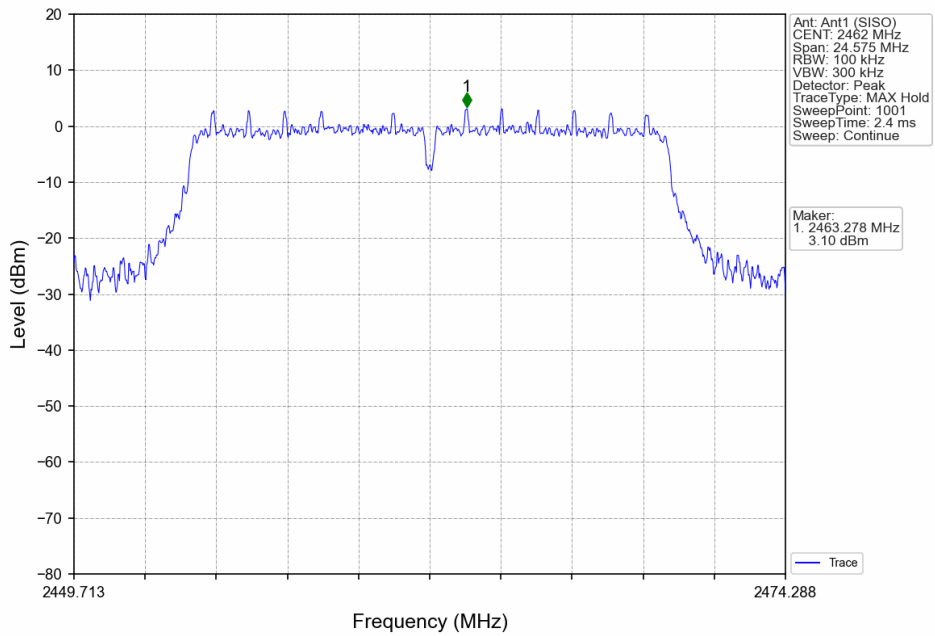




802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

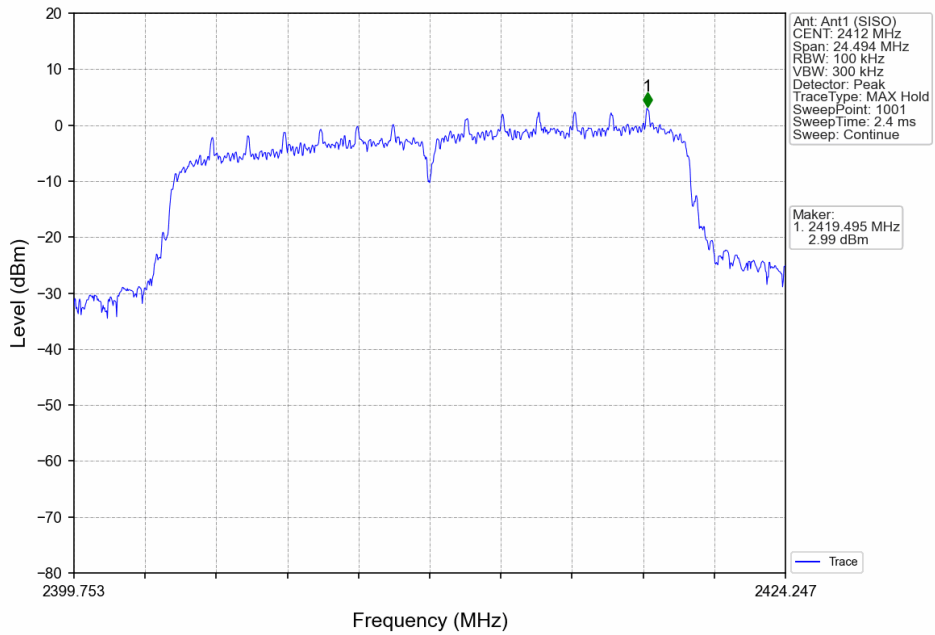


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

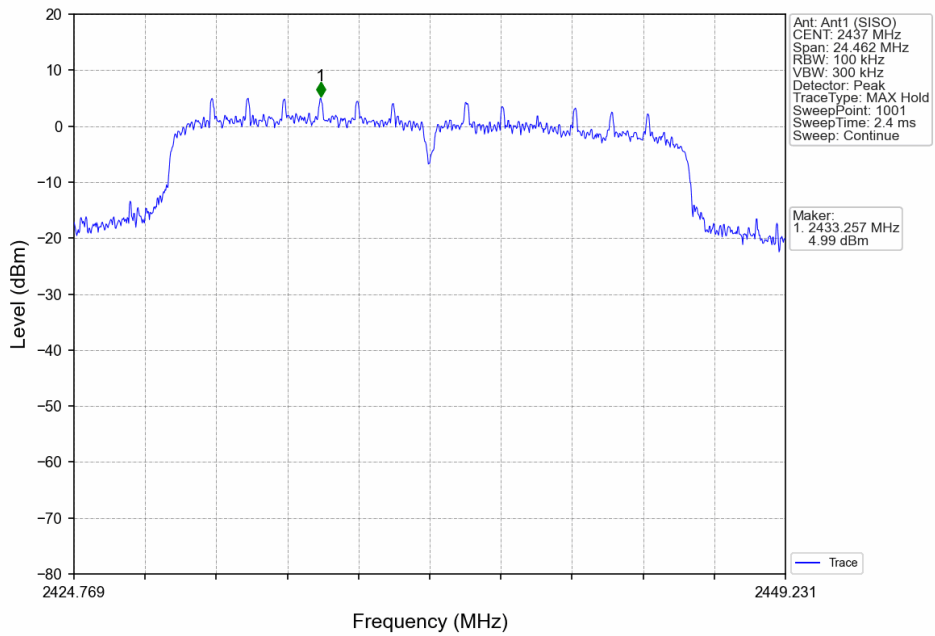




802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

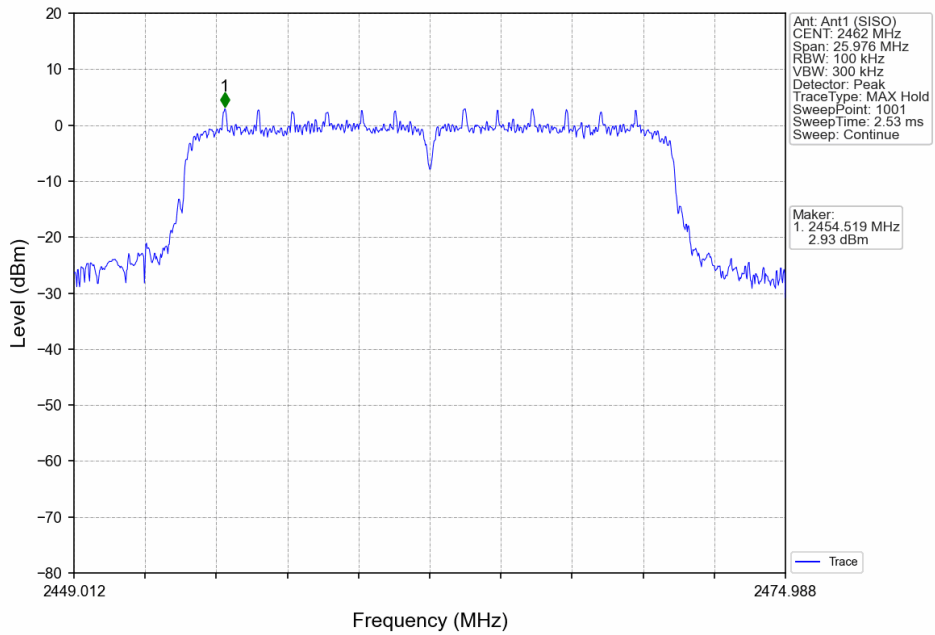


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

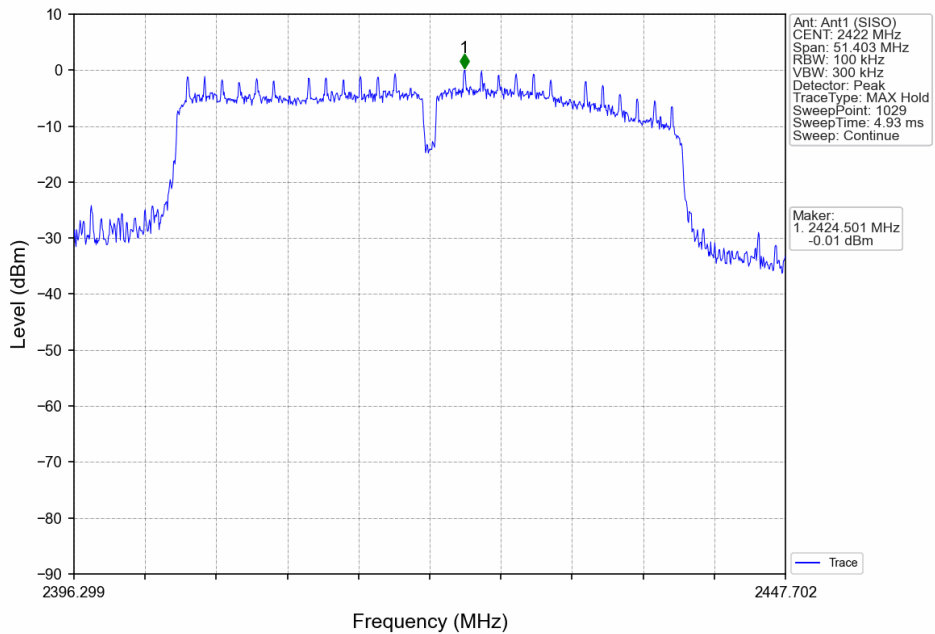




802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



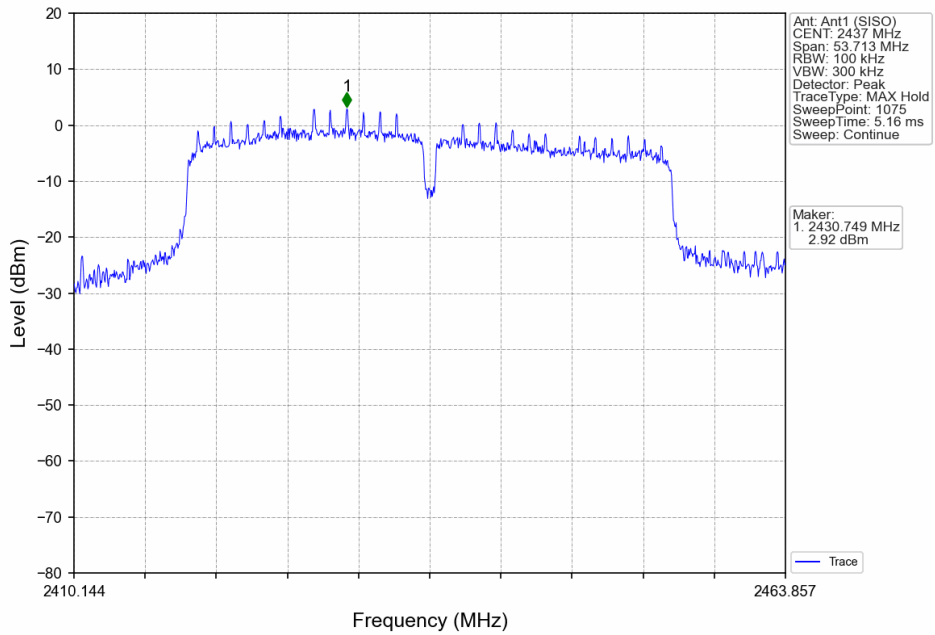
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



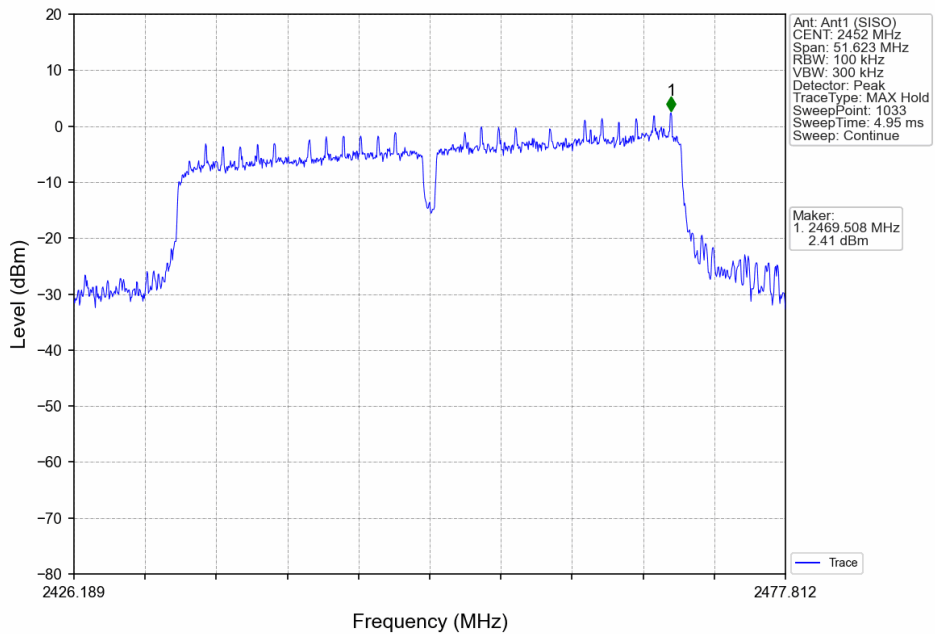




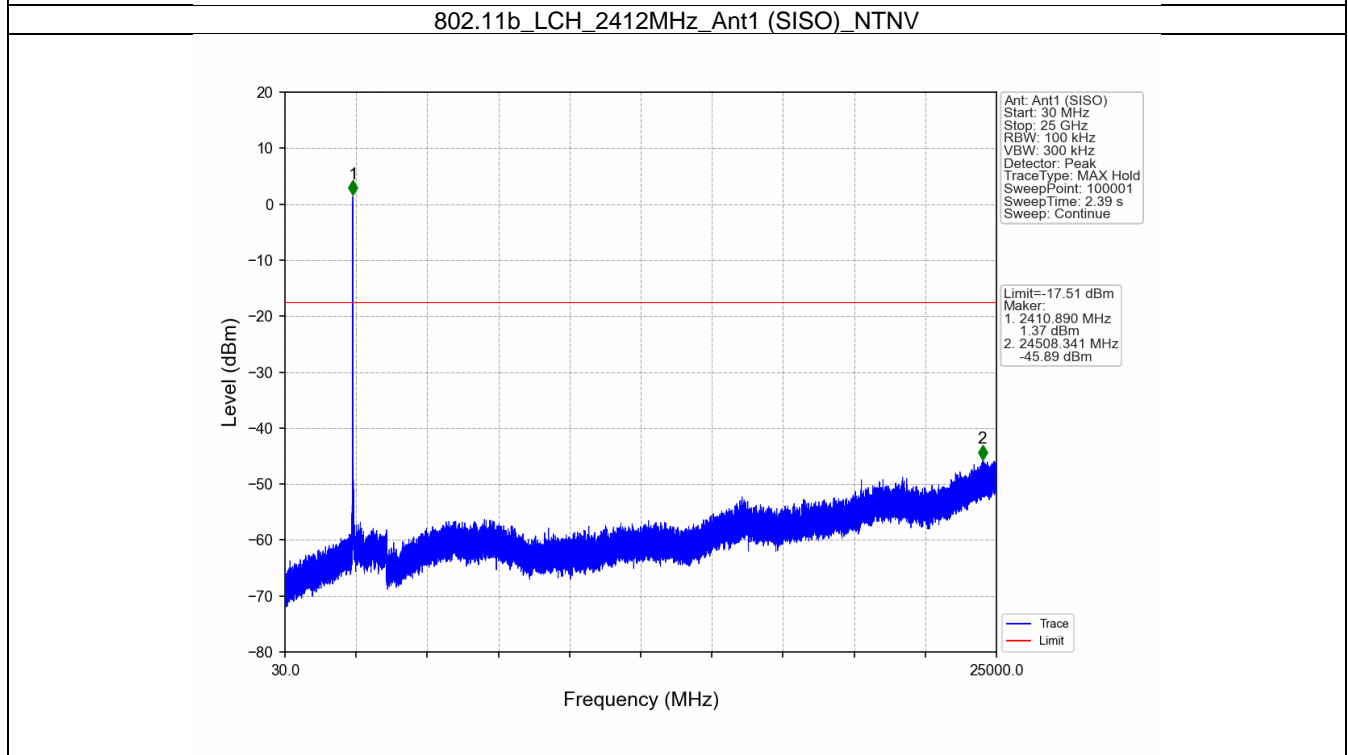
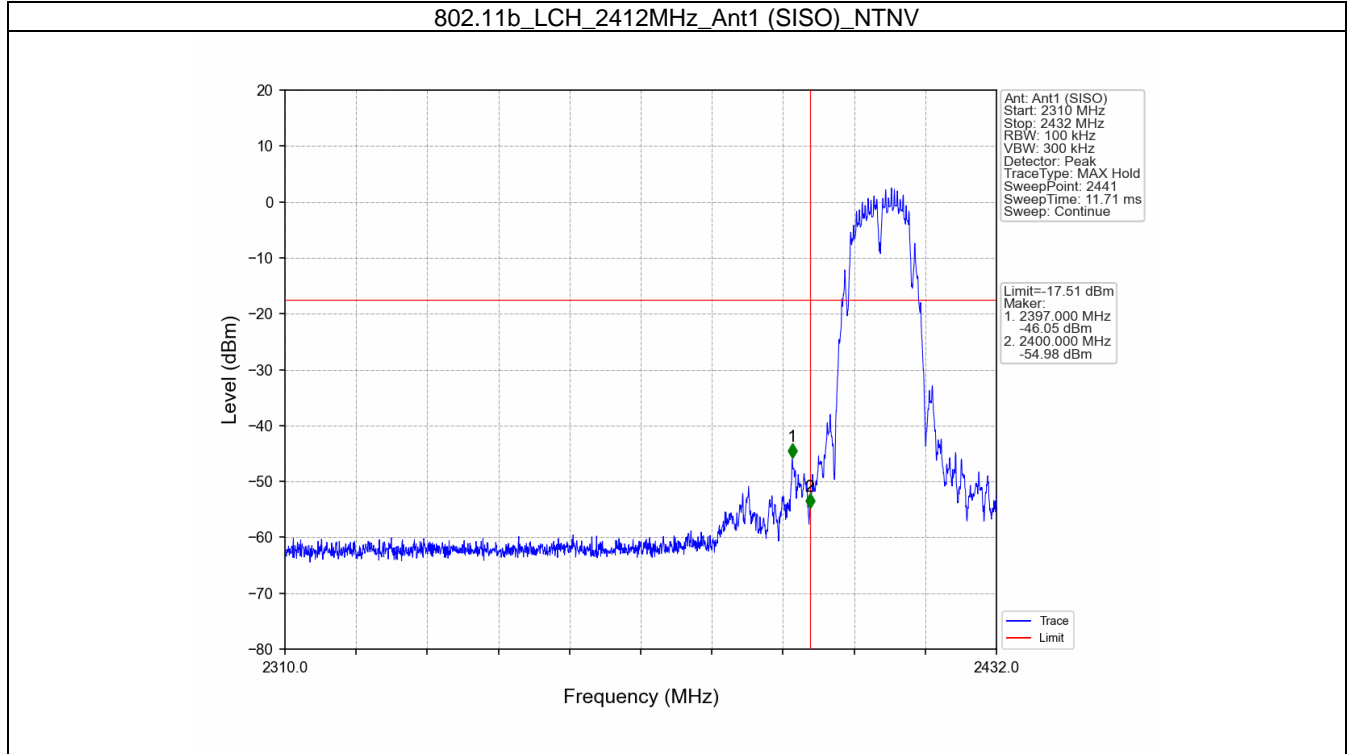
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



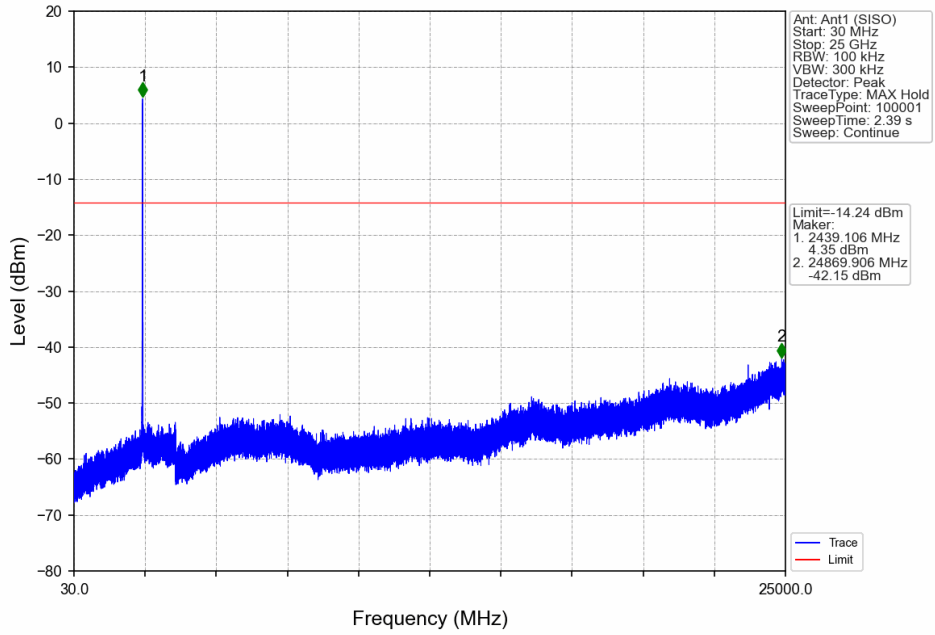
802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



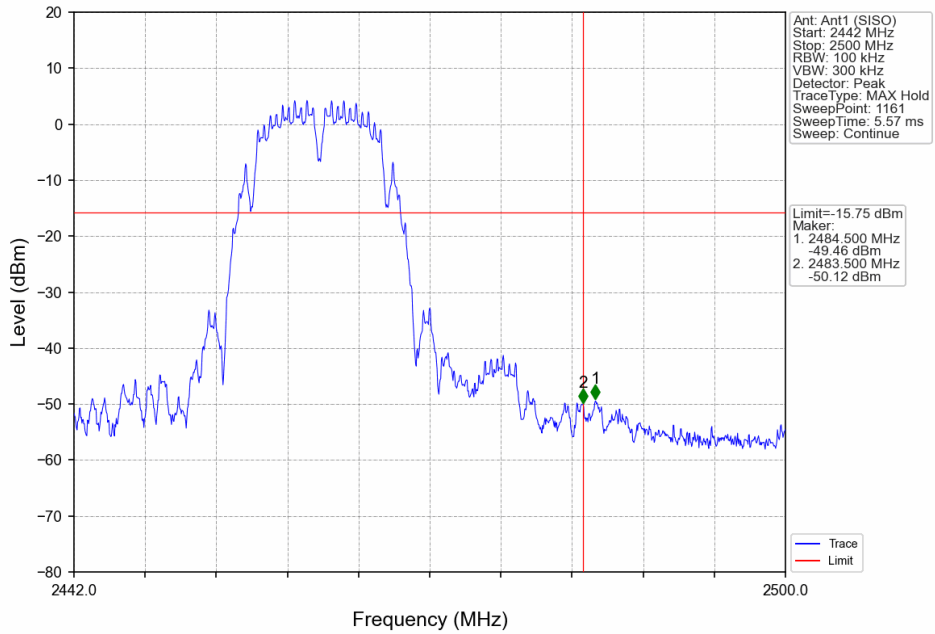
### 5.2.2 CSE



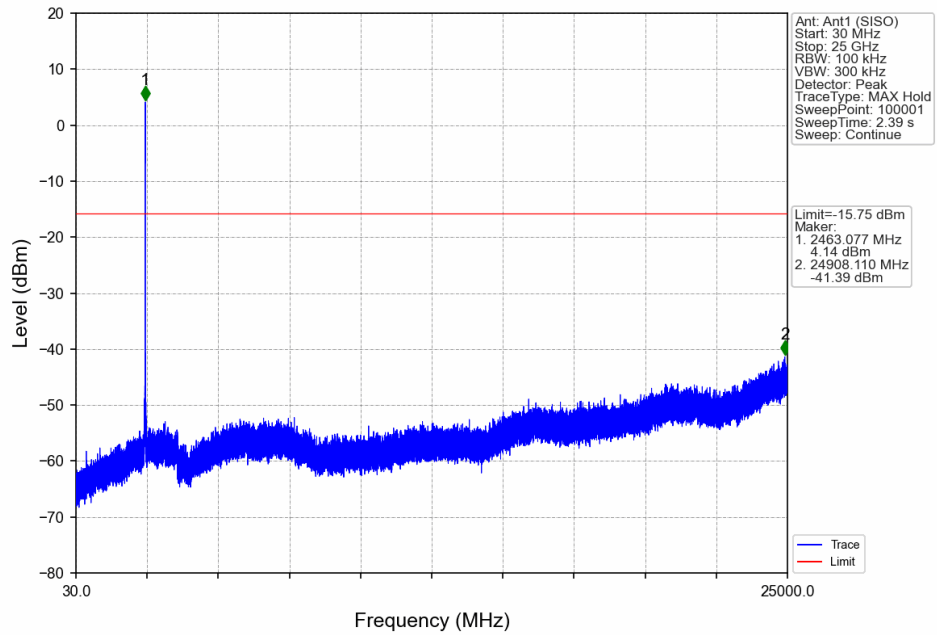
802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



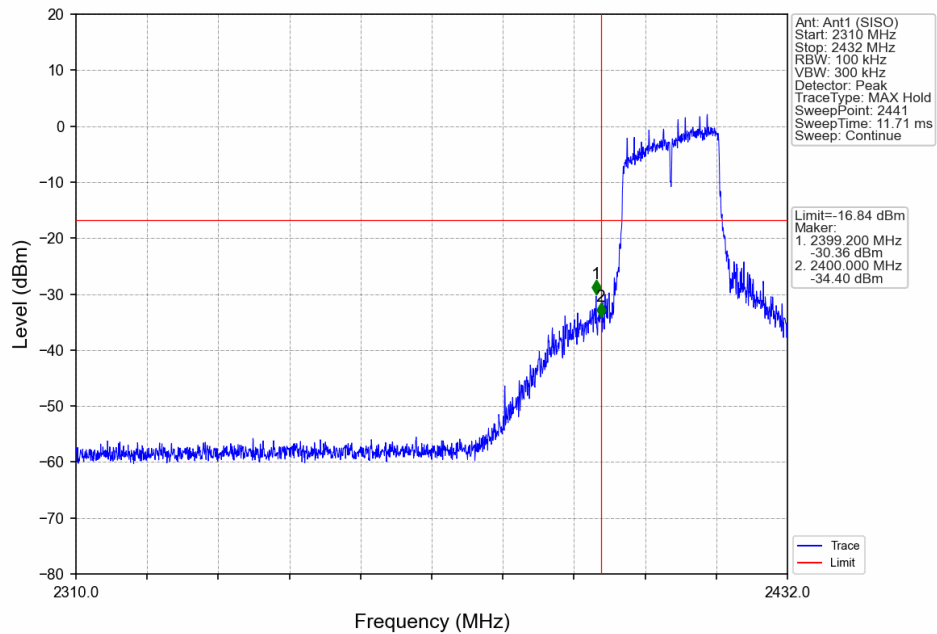
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



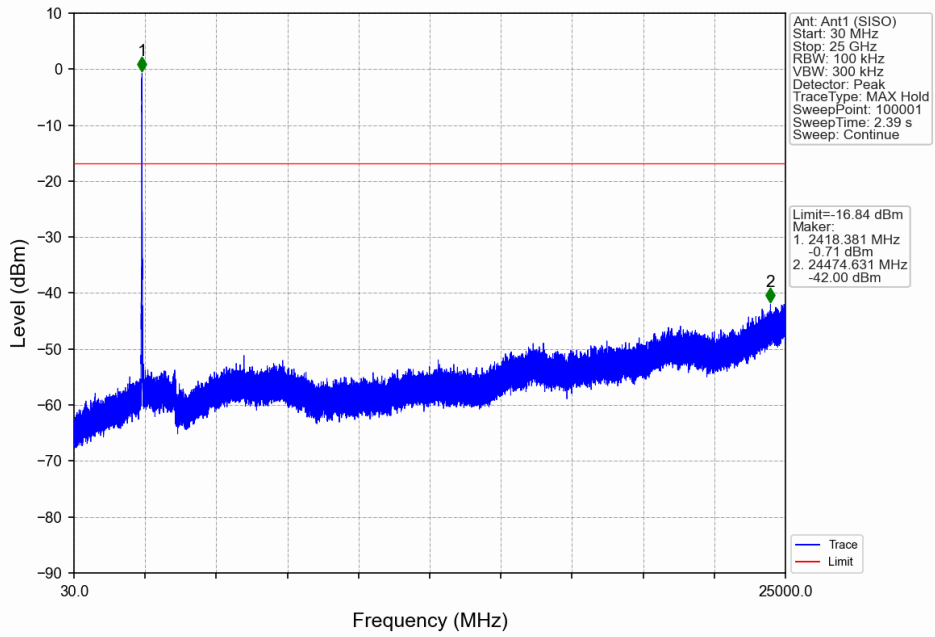
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



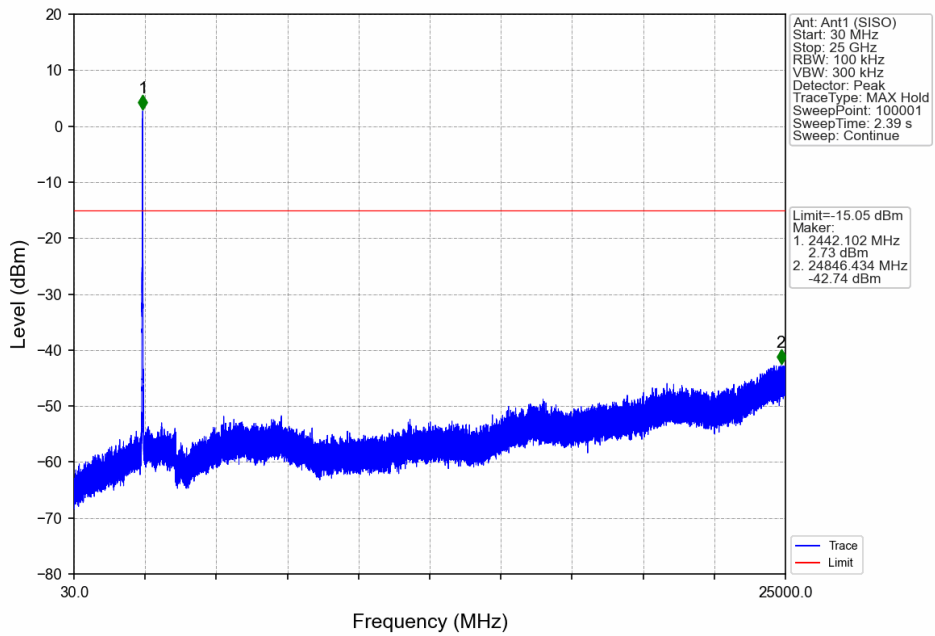
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



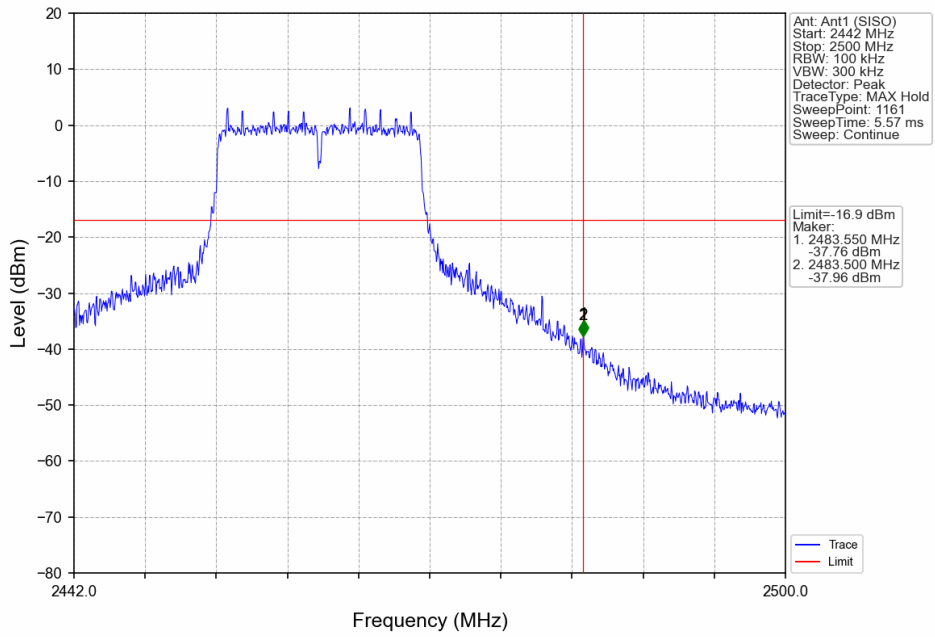
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



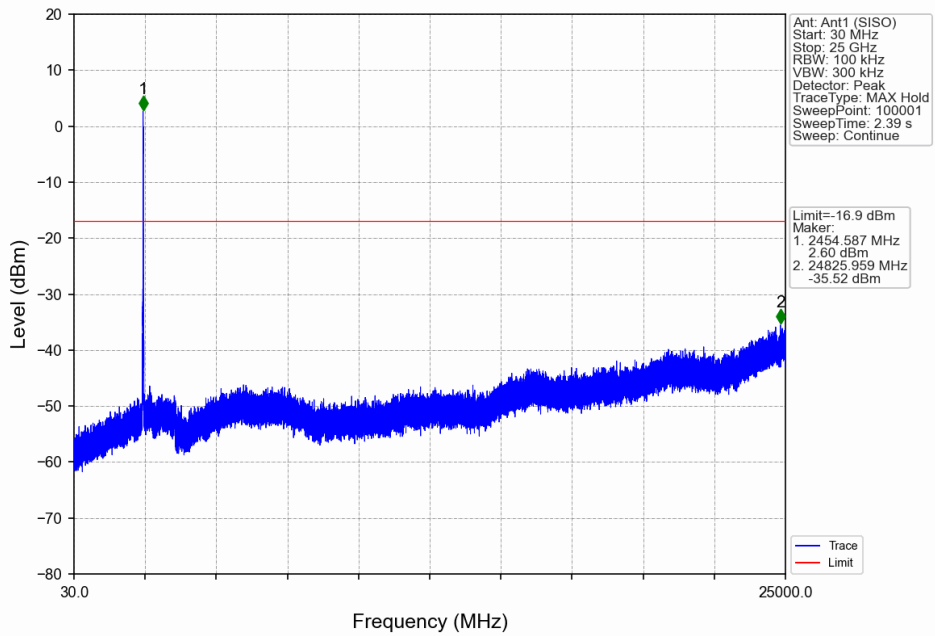
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



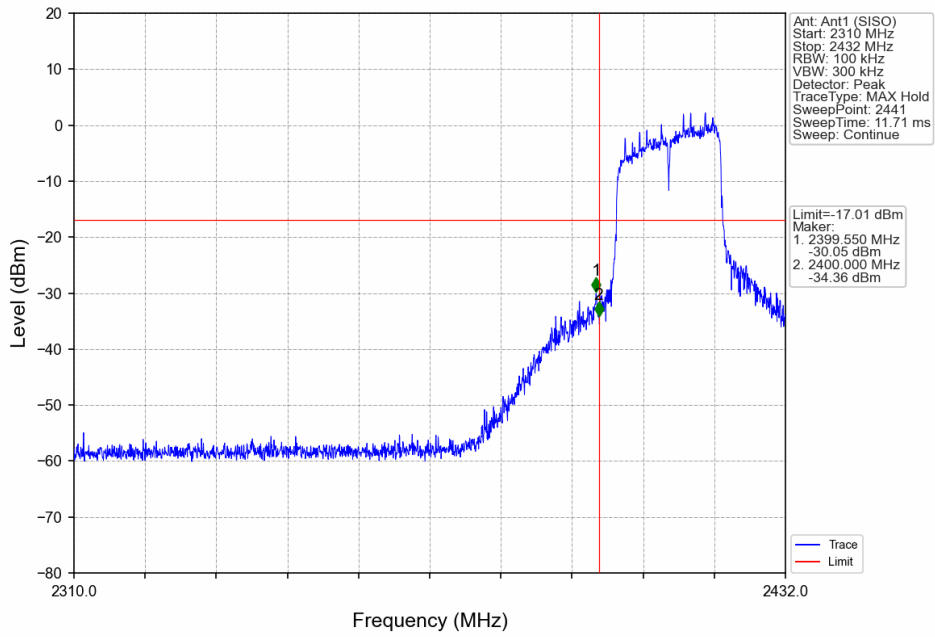
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



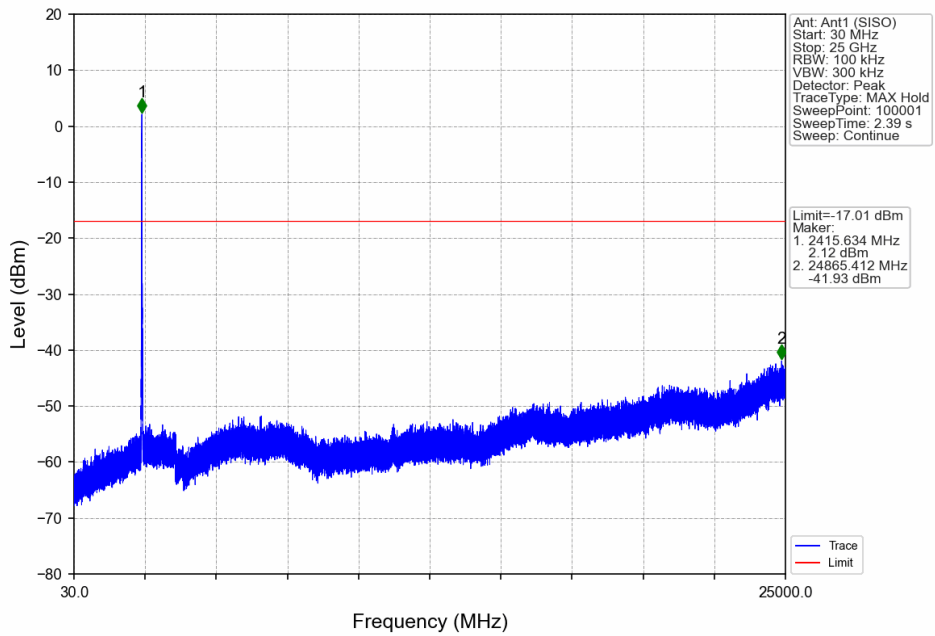
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



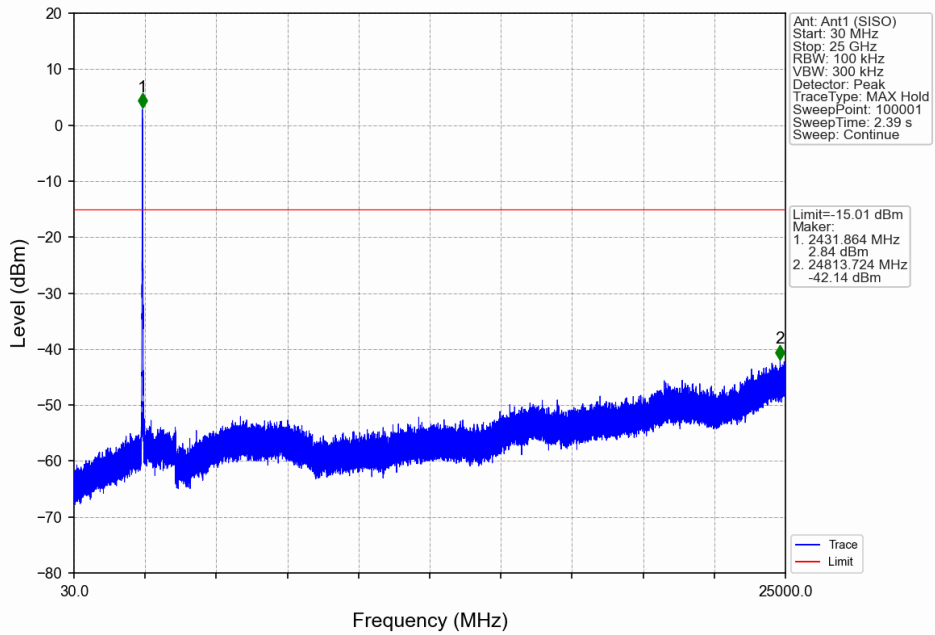
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



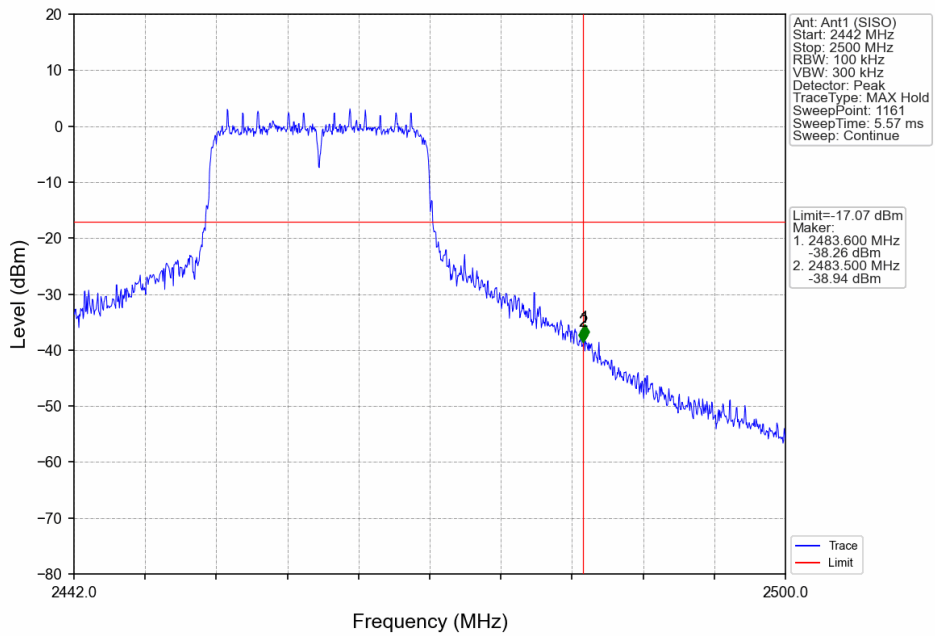
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

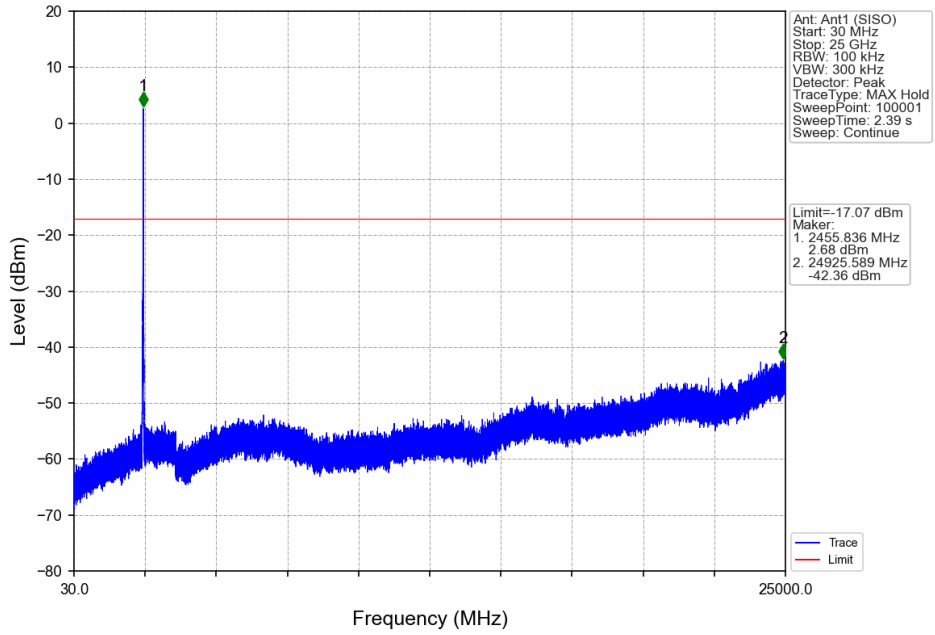


802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

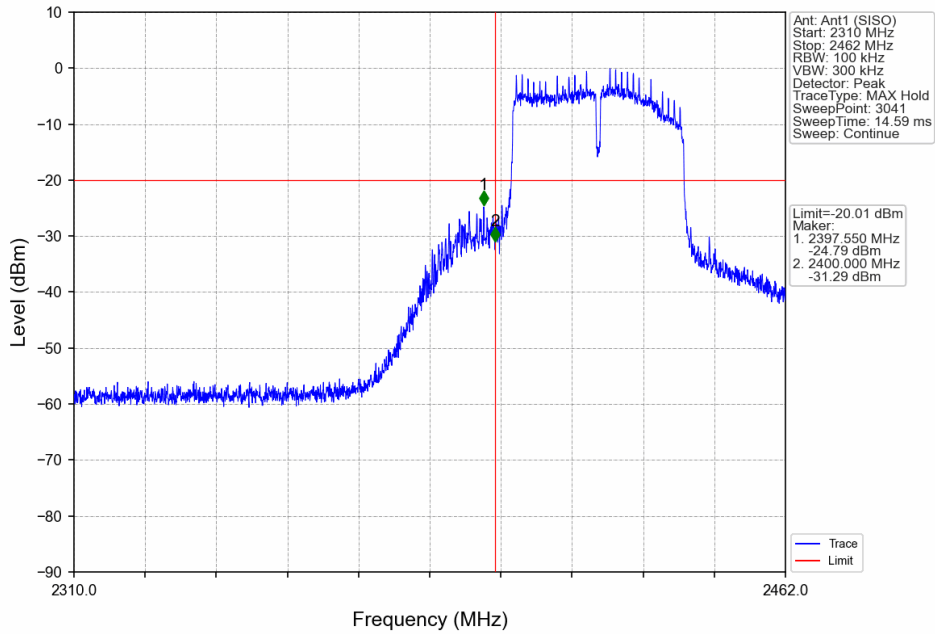




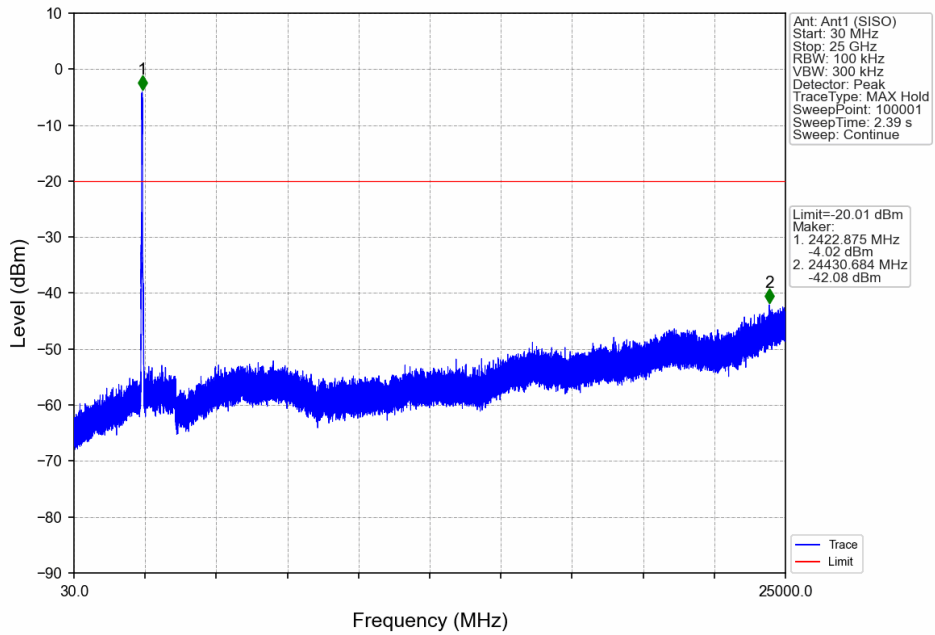
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



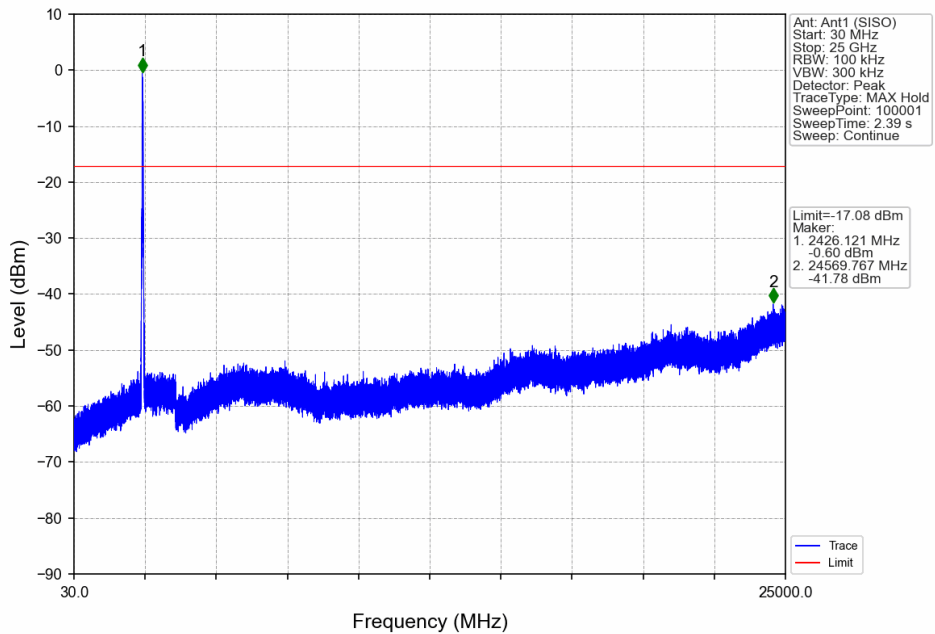
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



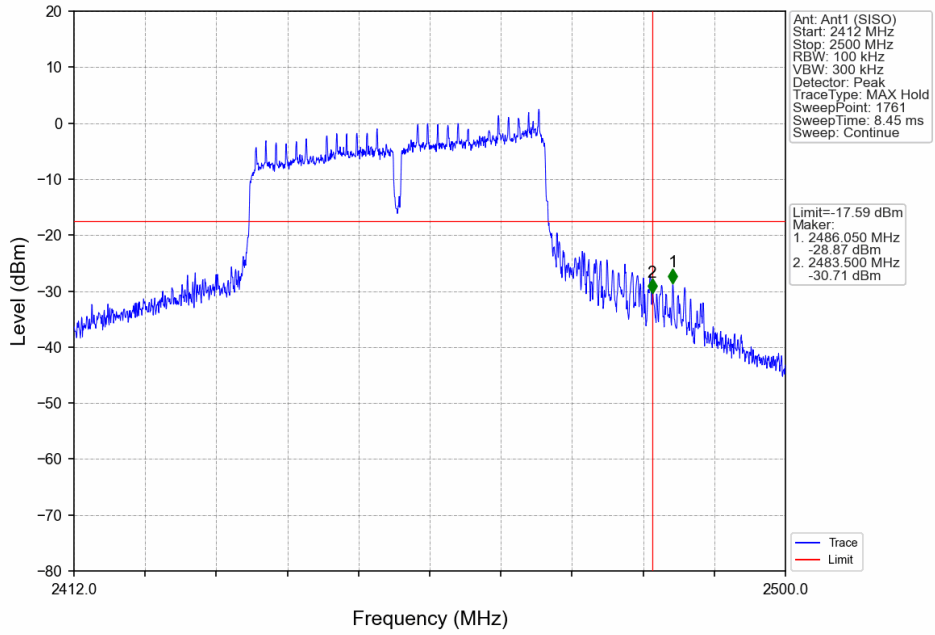
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



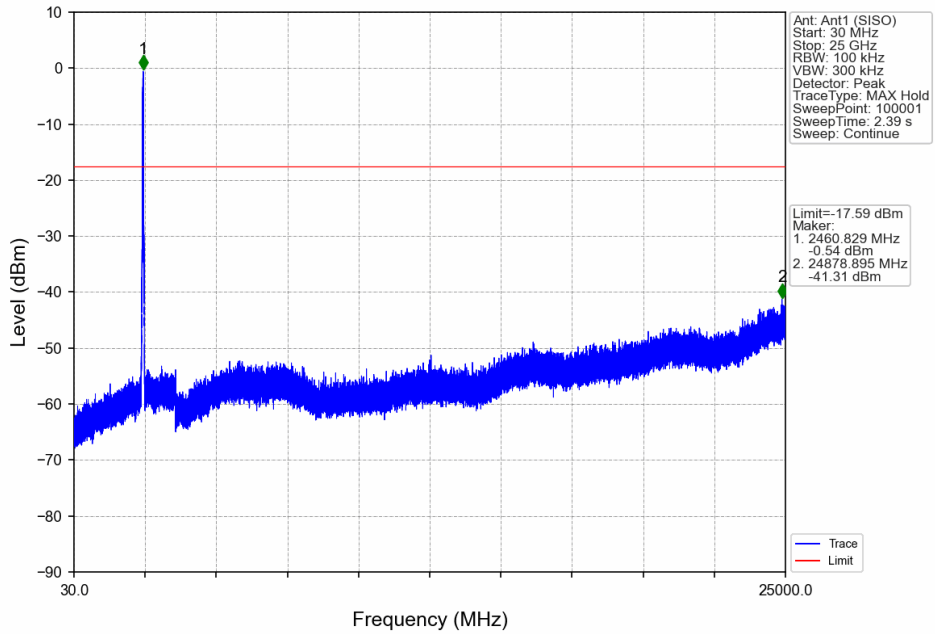
802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV





## 6. Form731

### 6.1 Test Result

#### 6.1.1 Form731

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2412	2462	0.2018	23.05
2422	2452	0.2032	23.08