

## Appendix A for KSEM210500078701

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

Ant1								
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	SISO	2412	/	/	12.41	12.57	98.73	0.06
		2437	/	/	12.42	12.59	98.65	0.06
		2462	/	/	12.42	12.57	98.81	0.05
802.11g	SISO	2412	/	/	2.06	2.22	93.05	0.31
		2437	/	/	2.06	2.23	92.76	0.33
		2462	/	/	2.06	2.23	92.63	0.33
802.11n (HT20)	MIMO	2412	/	/	1.92	2.06	93.11	0.31
		2437	/	/	1.92	2.08	92.17	0.35
		2462	/	/	1.92	2.07	92.61	0.33
802.11n (HT40)	MIMO	2422	/	/	0.94	1.10	85.34	0.69
		2437	/	/	0.94	1.12	84.75	0.72
		2452	/	/	0.94	1.10	85.43	0.68

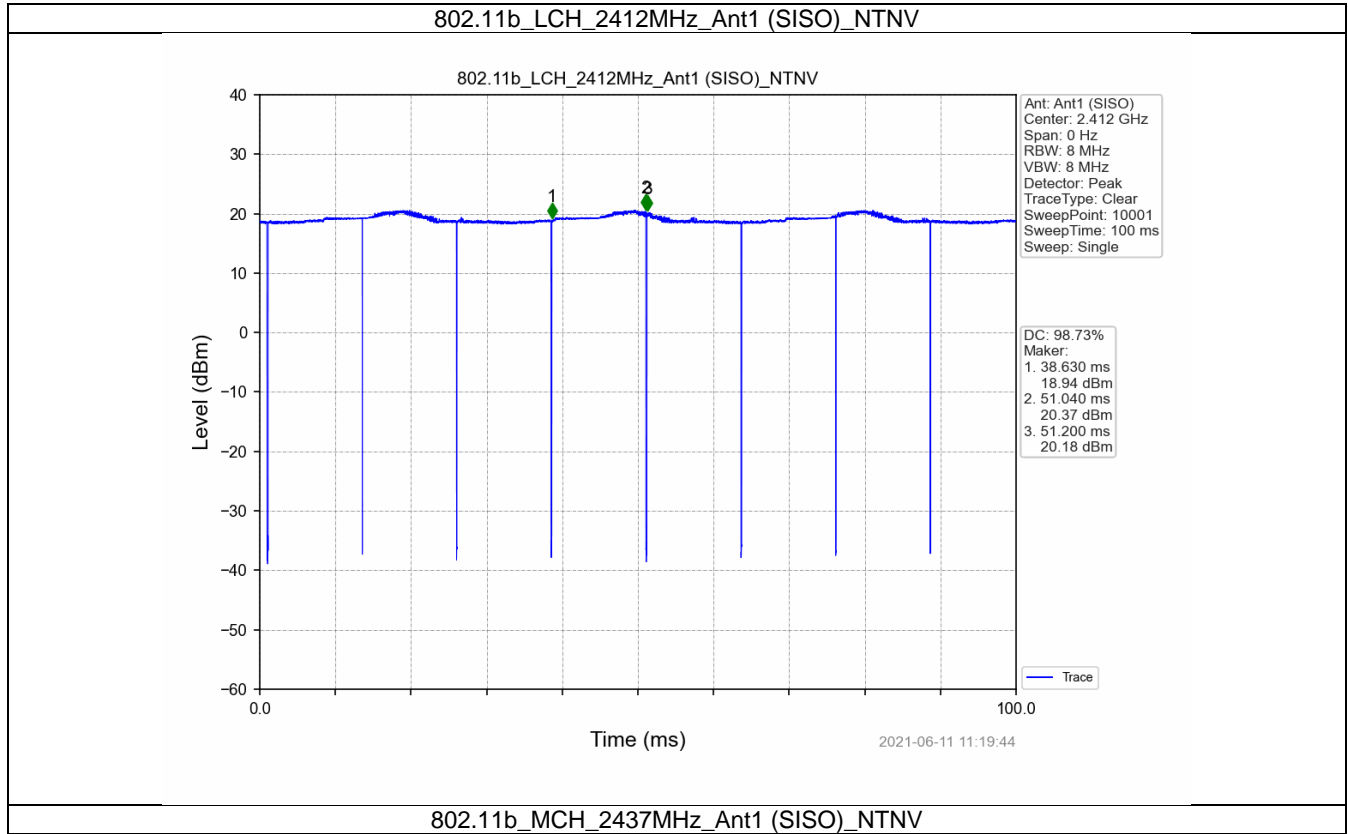
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## 1.1.2 Test Graph

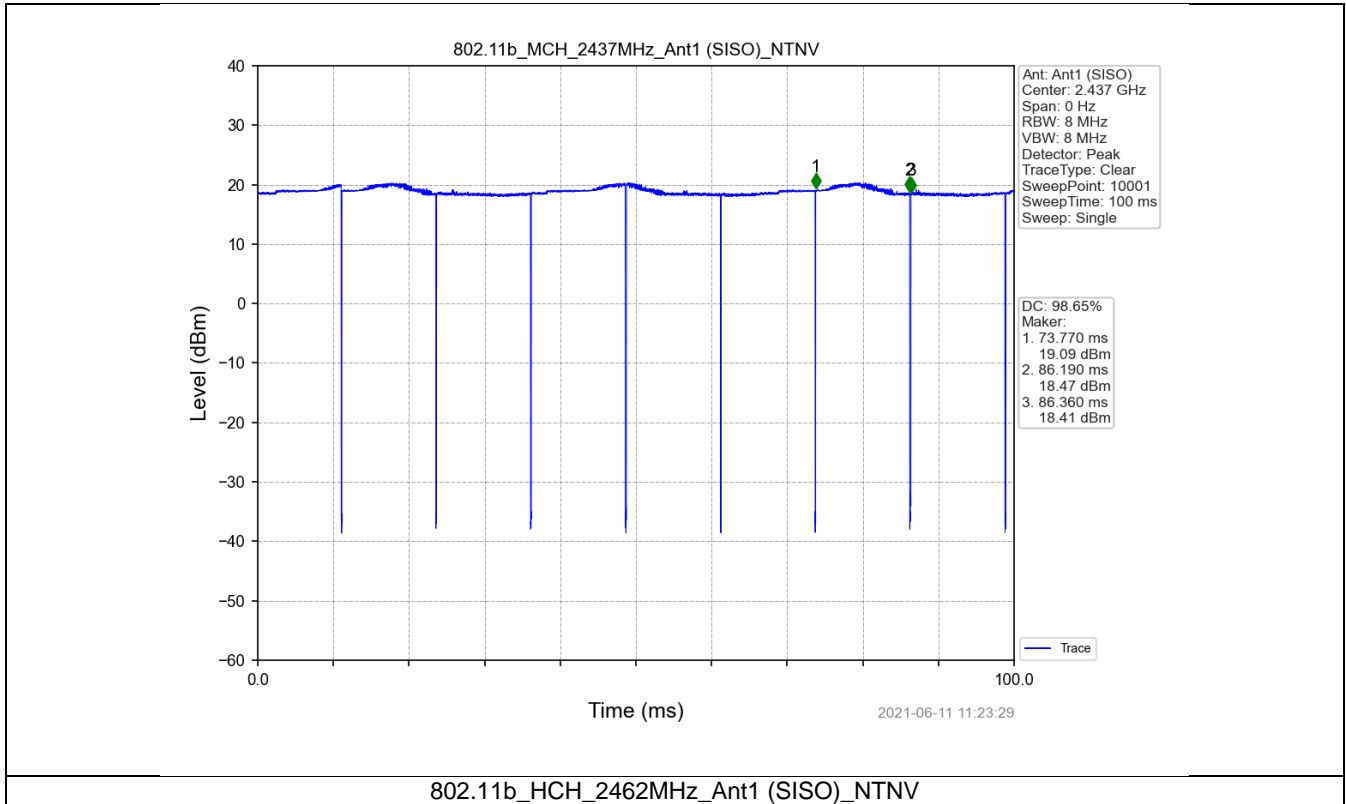


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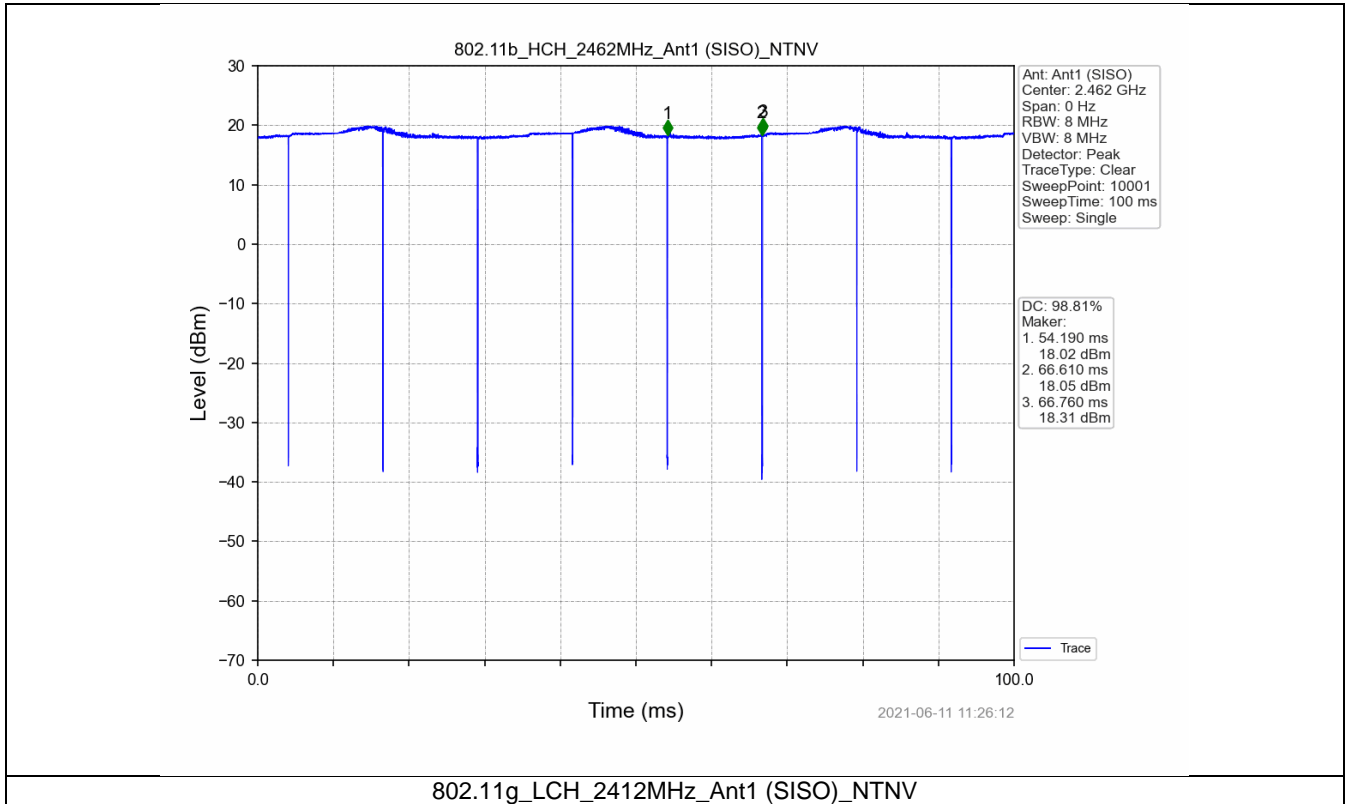


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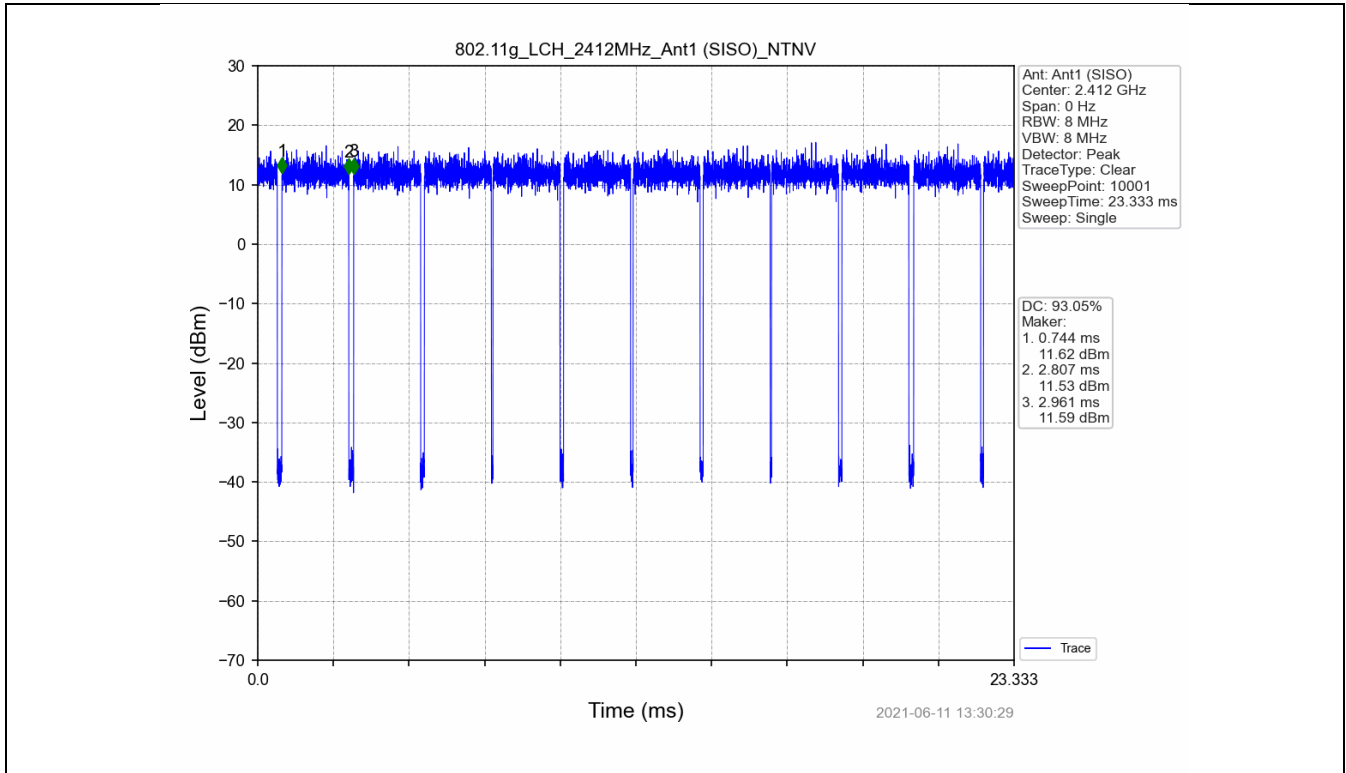


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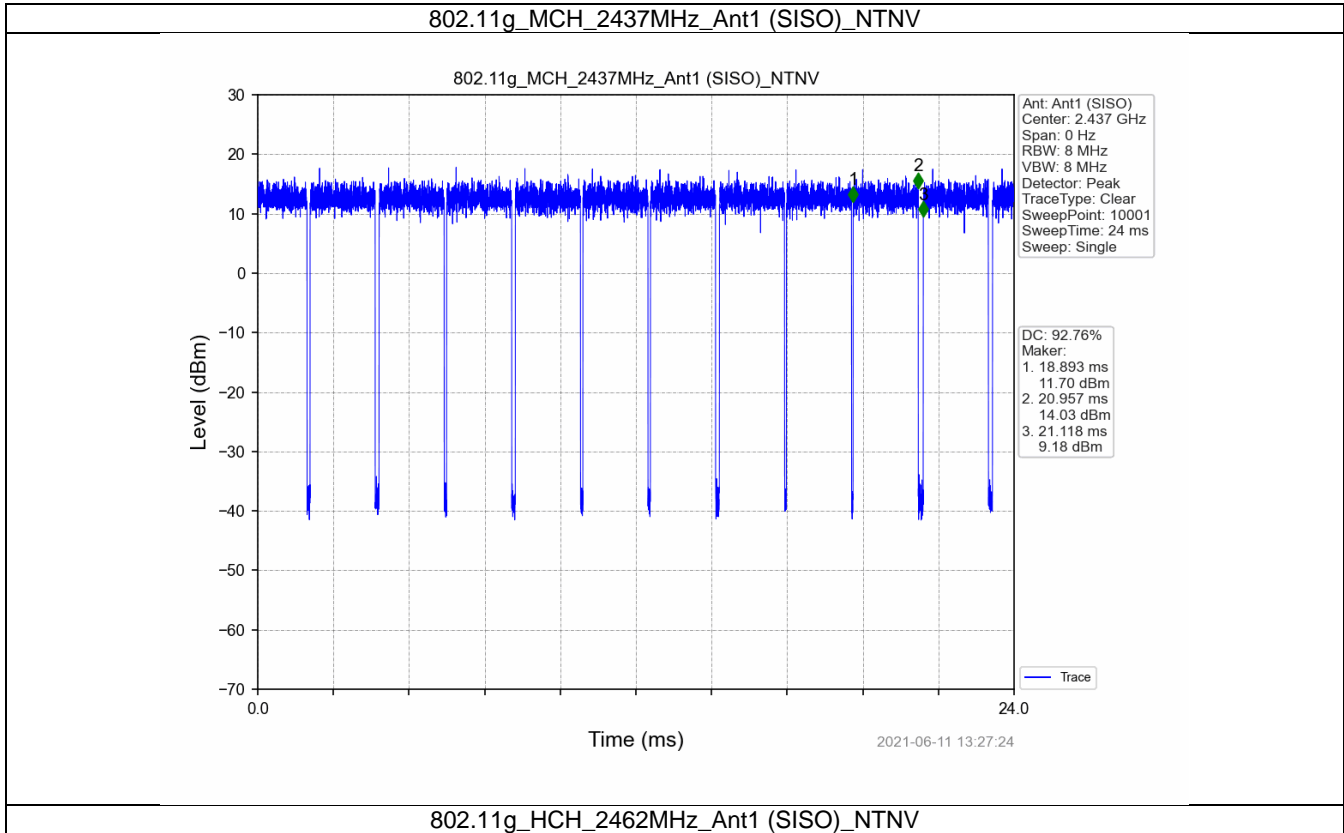


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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

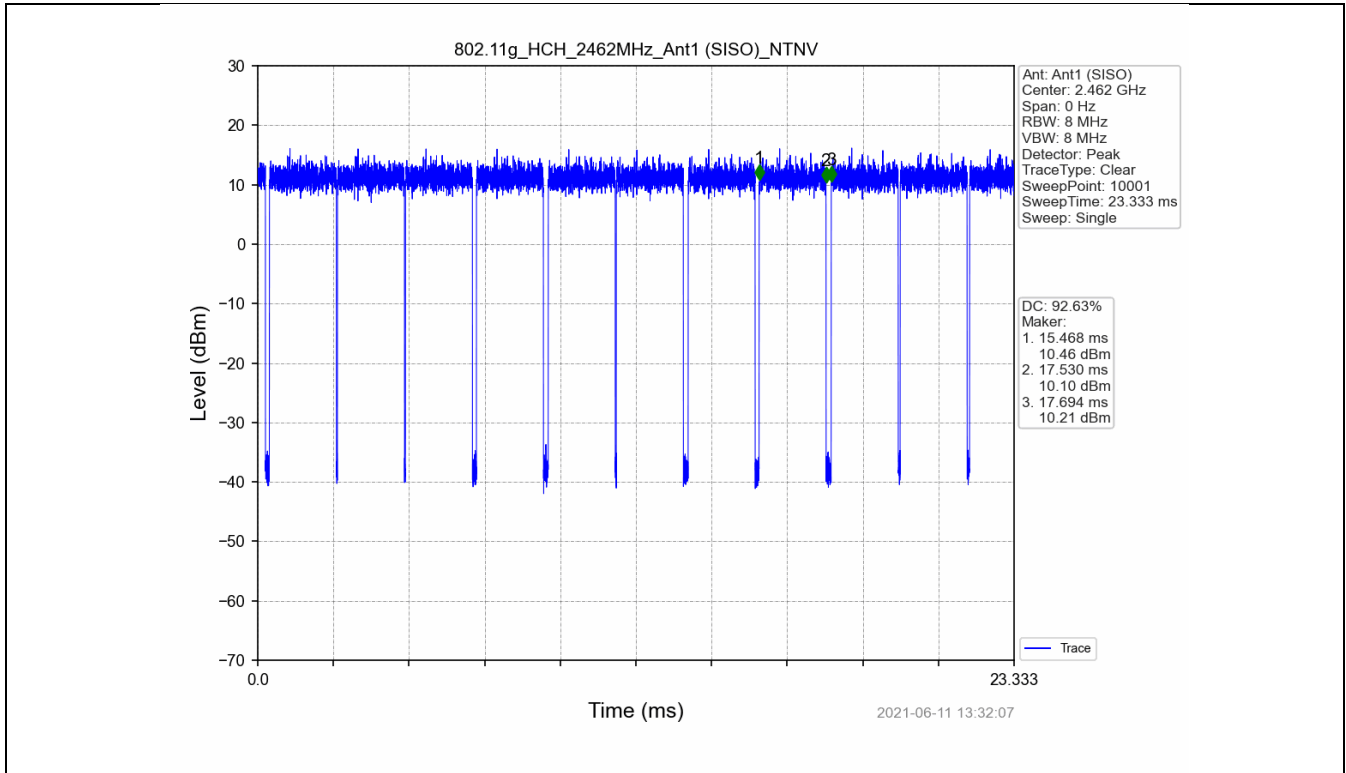


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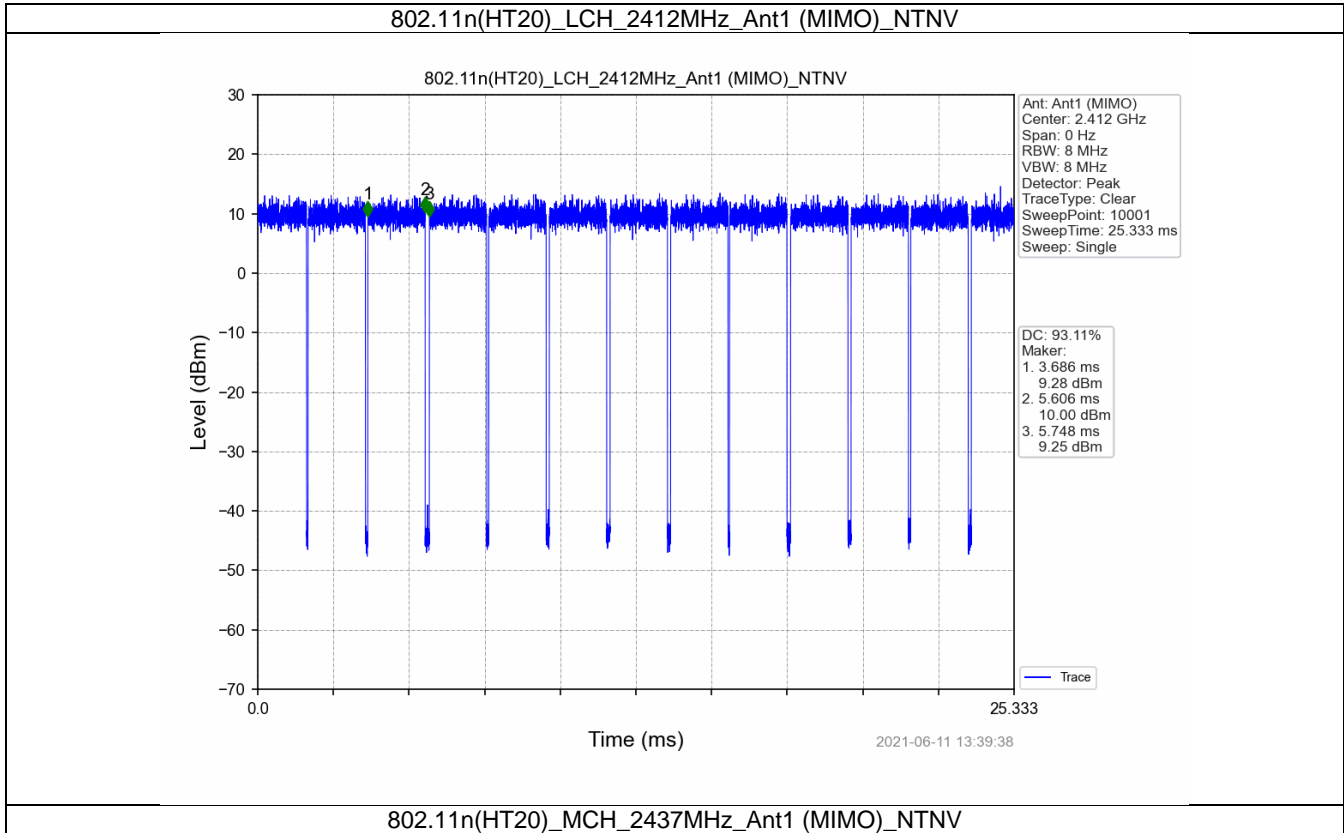


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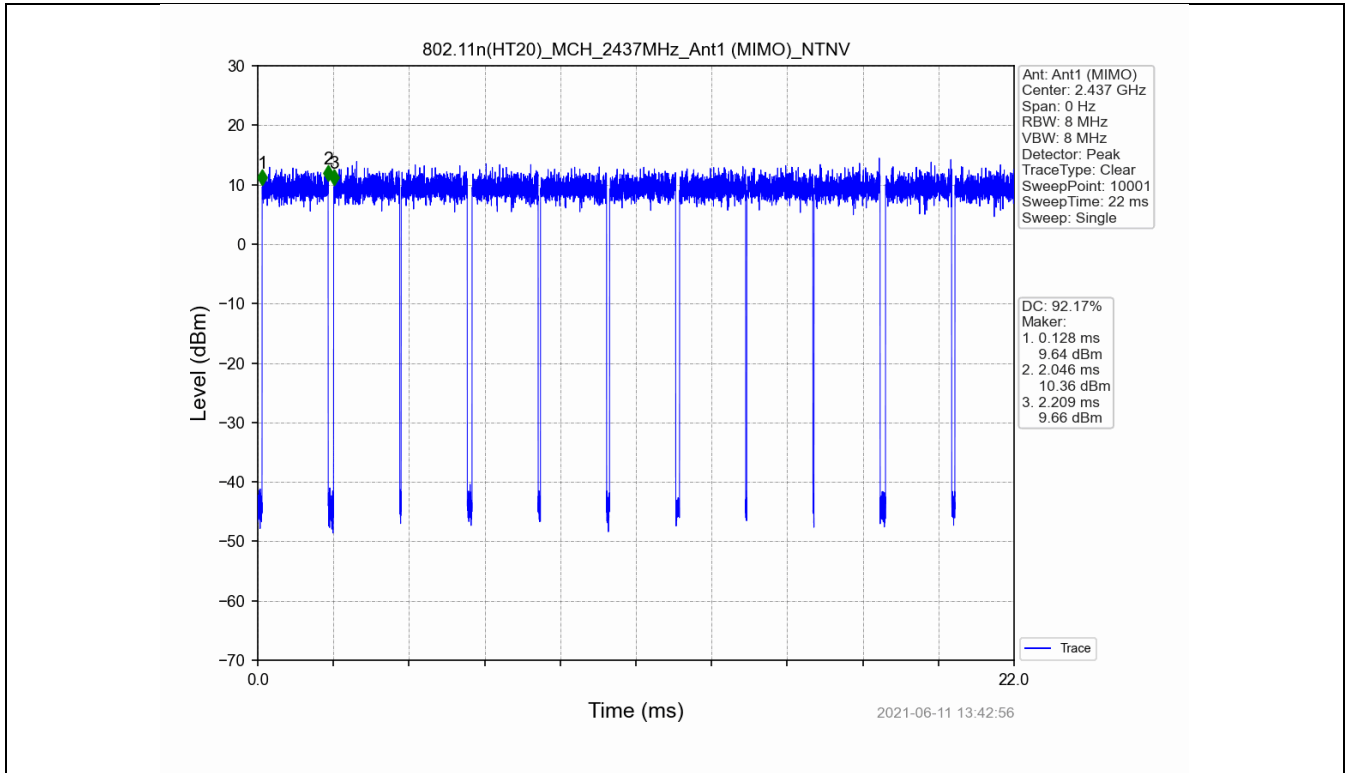
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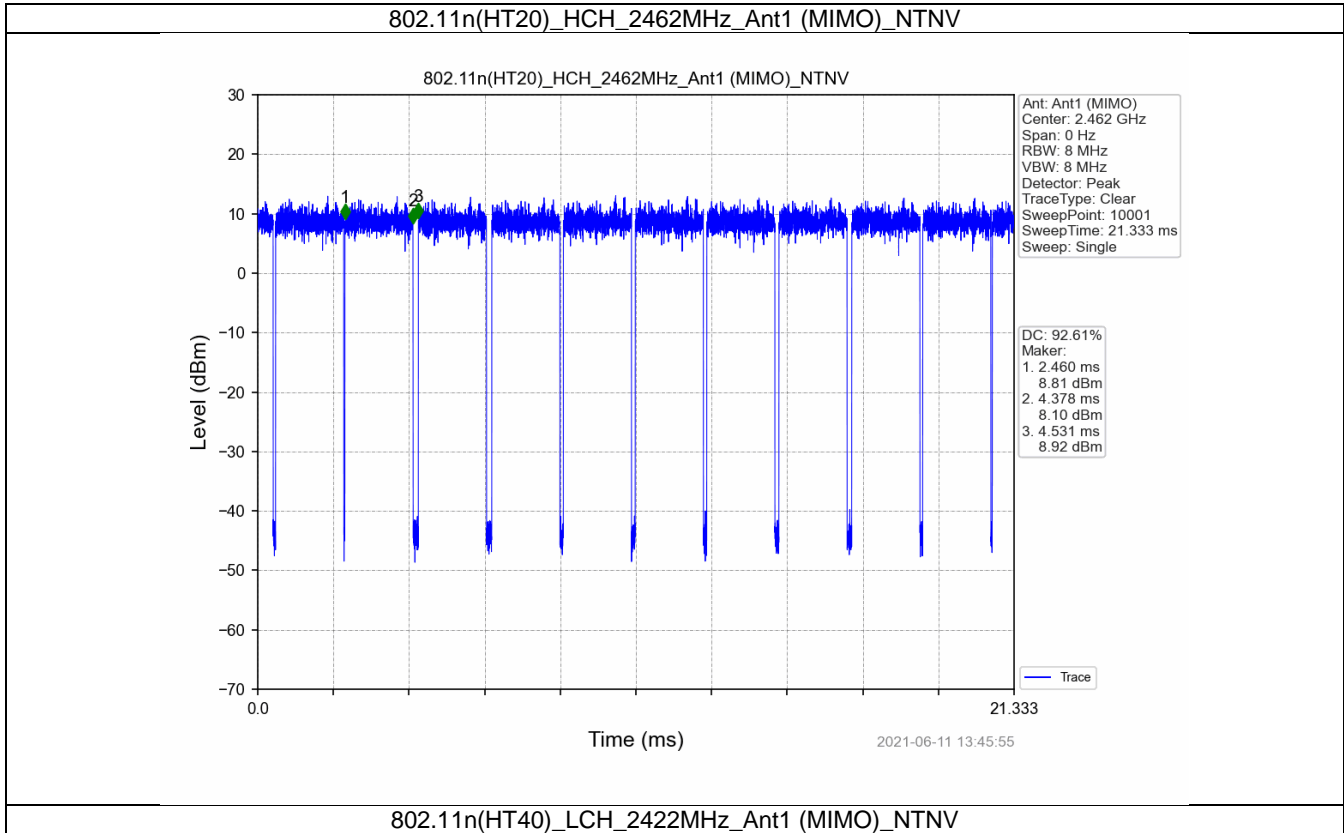


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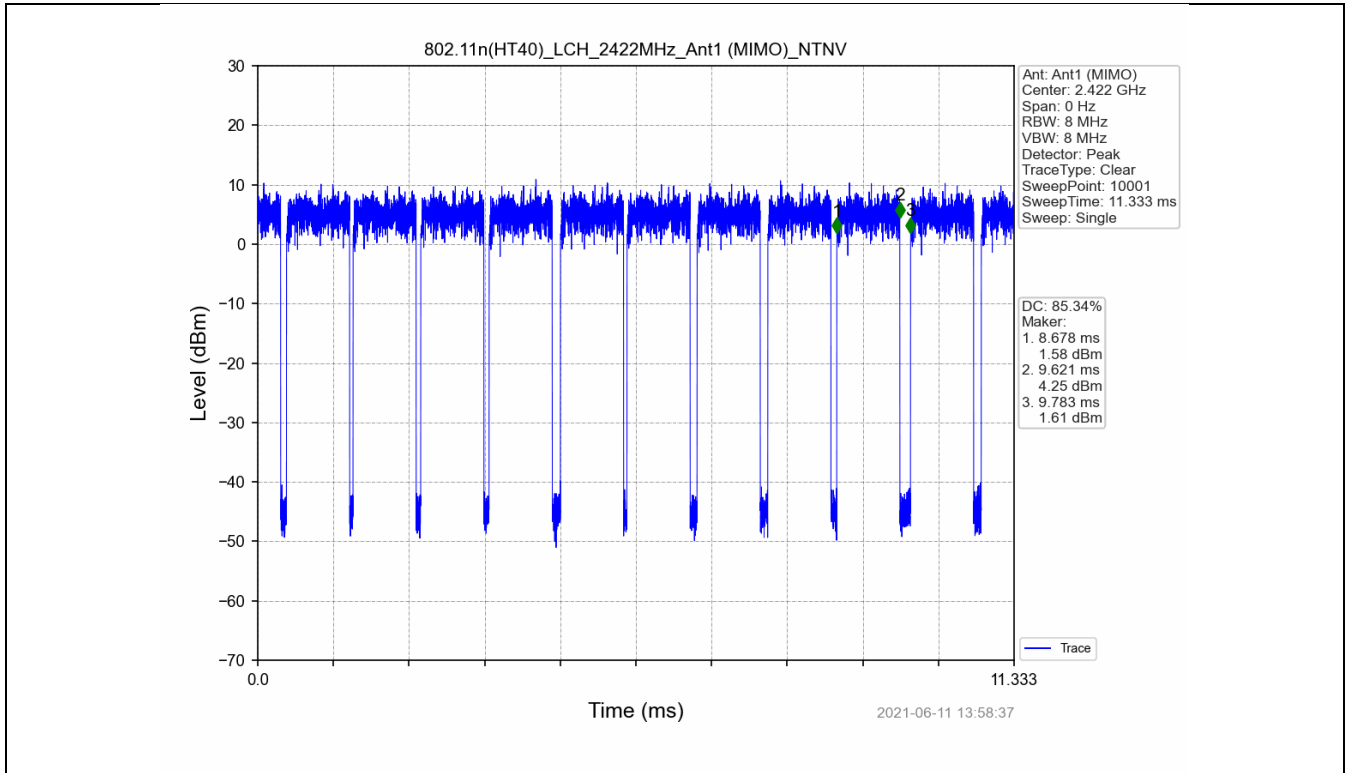


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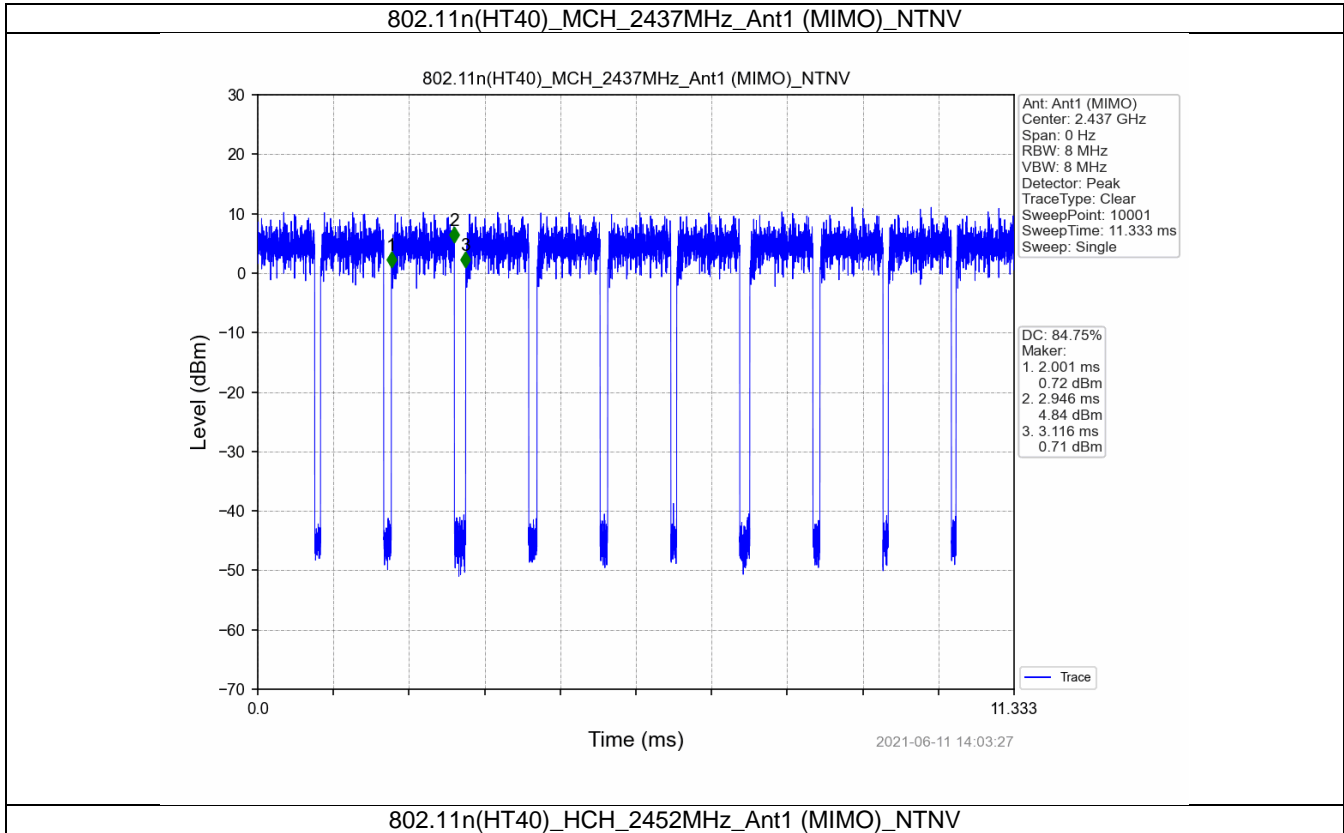


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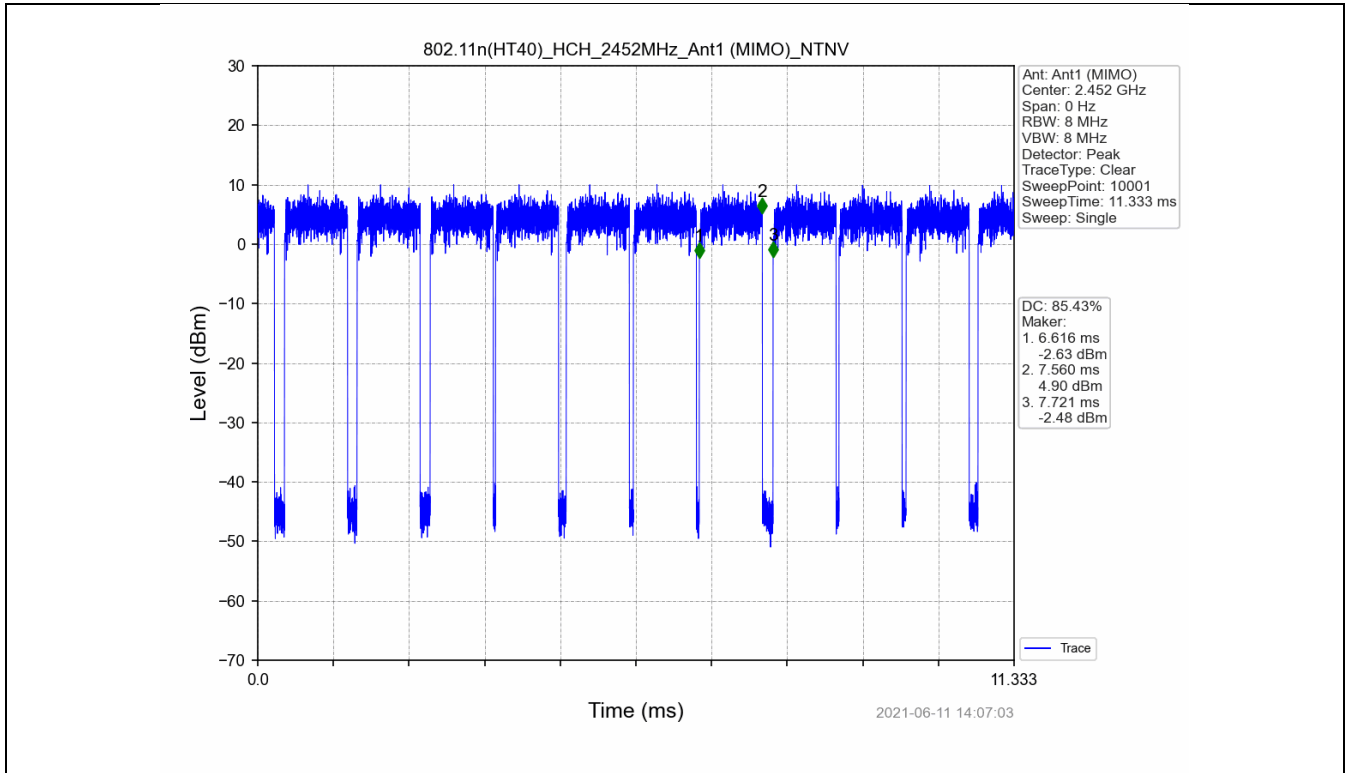


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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

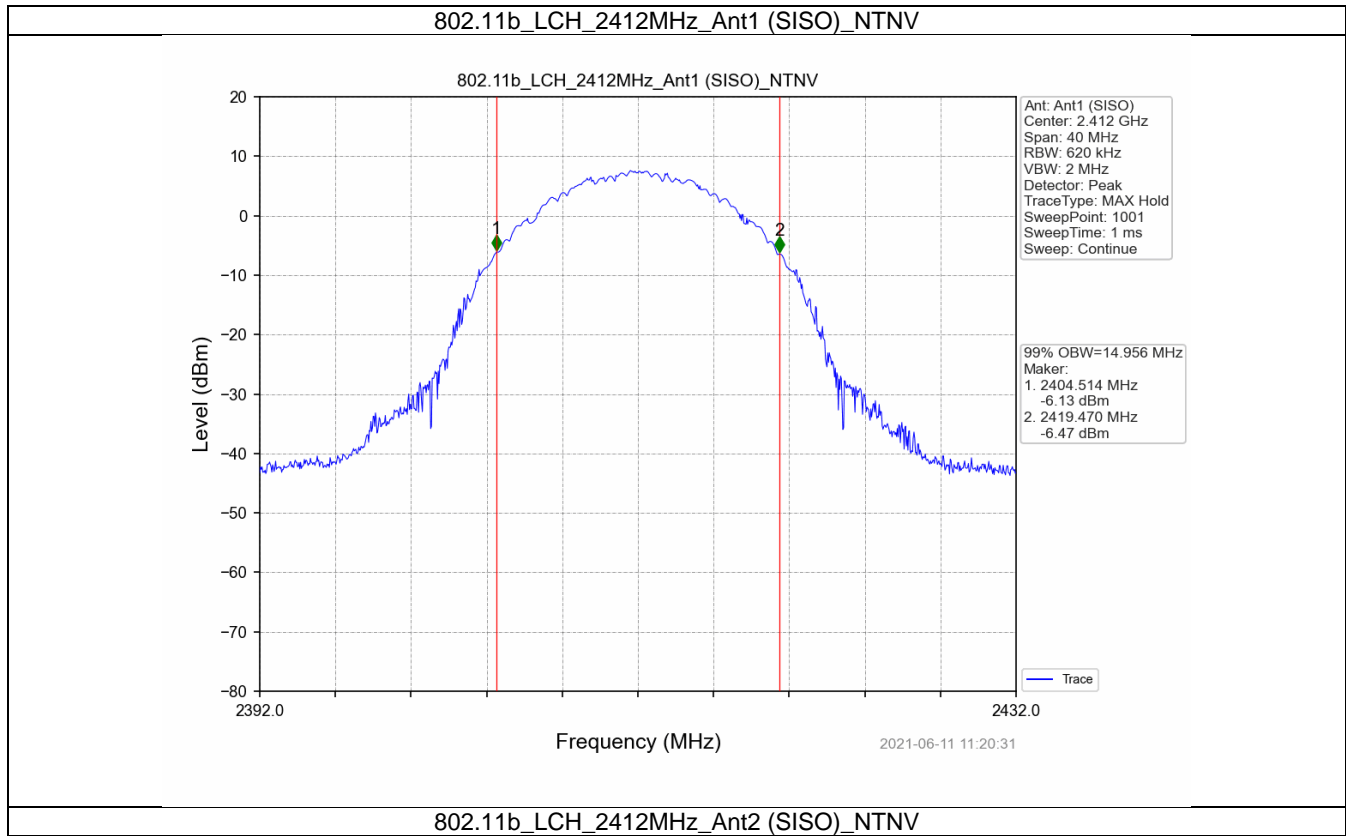
Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1	Ant2		
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		2437	/	/	14.943	15.132	/	Note1
		2462	/	/	14.943	15.133	/	Note1
802.11g	SISO	2412	/	/	17.616	17.662	/	Note1
		2437	/	/	17.872	17.737	/	Note1
		2462	/	/	17.543	17.654	/	Note1
802.11n (HT20)	MIMO	2412	/	/	18.776	18.779	/	Note1
		2437	/	/	18.775	18.618	/	Note1
		2462	/	/	18.642	18.596	/	Note1
802.11n (HT40)	MIMO	2422	/	/	36.215	36.211	/	Note1
		2437	/	/	36.140	36.157	/	Note1
		2452	/	/	36.143	36.110	/	Note1

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## 2.1.2 Test Graph

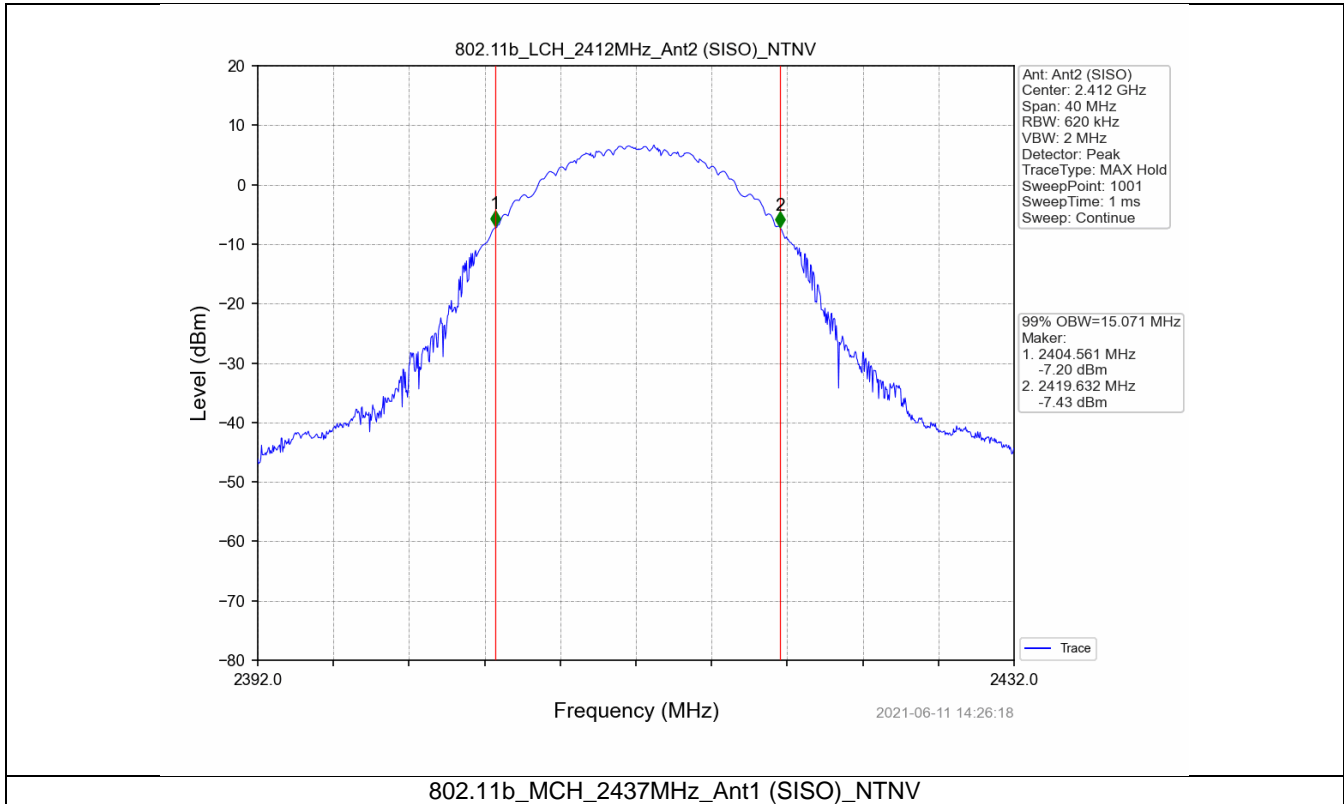


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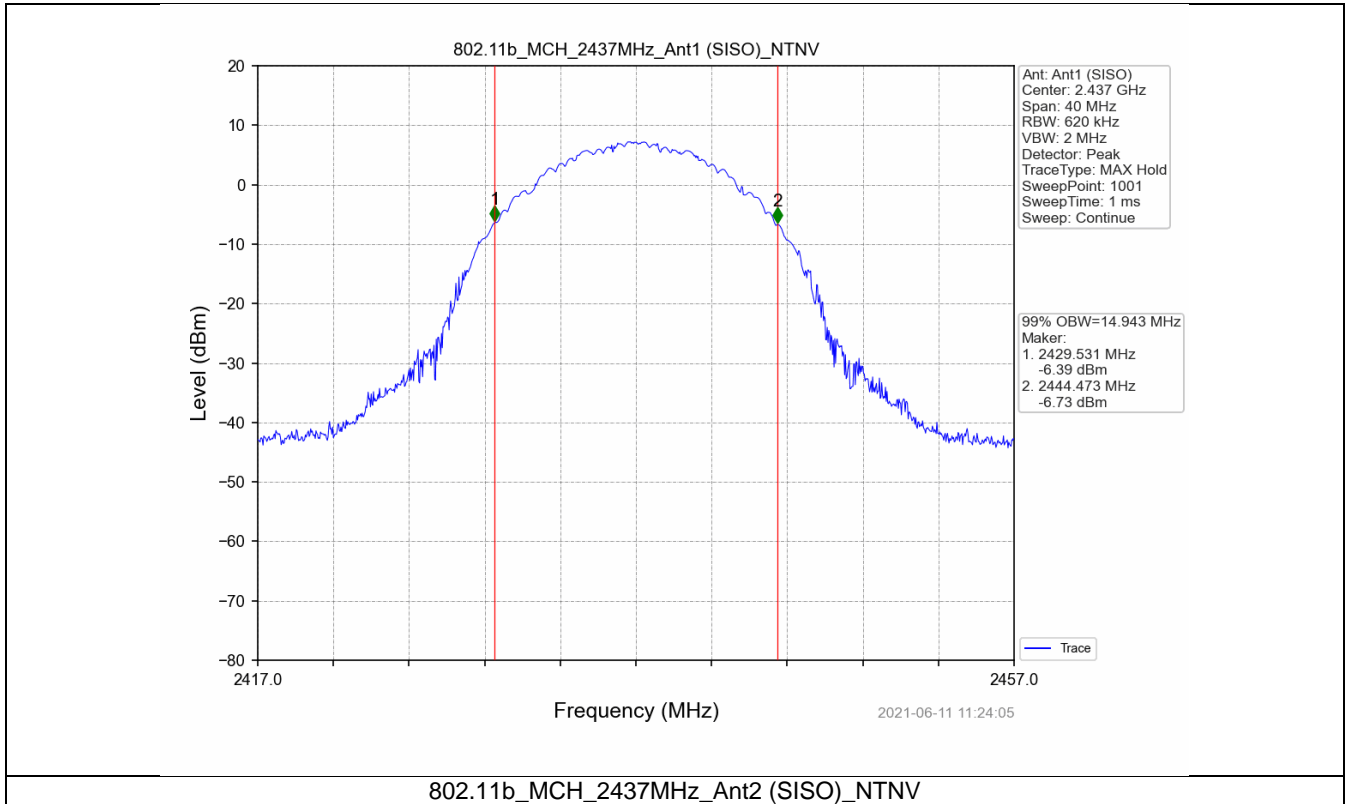
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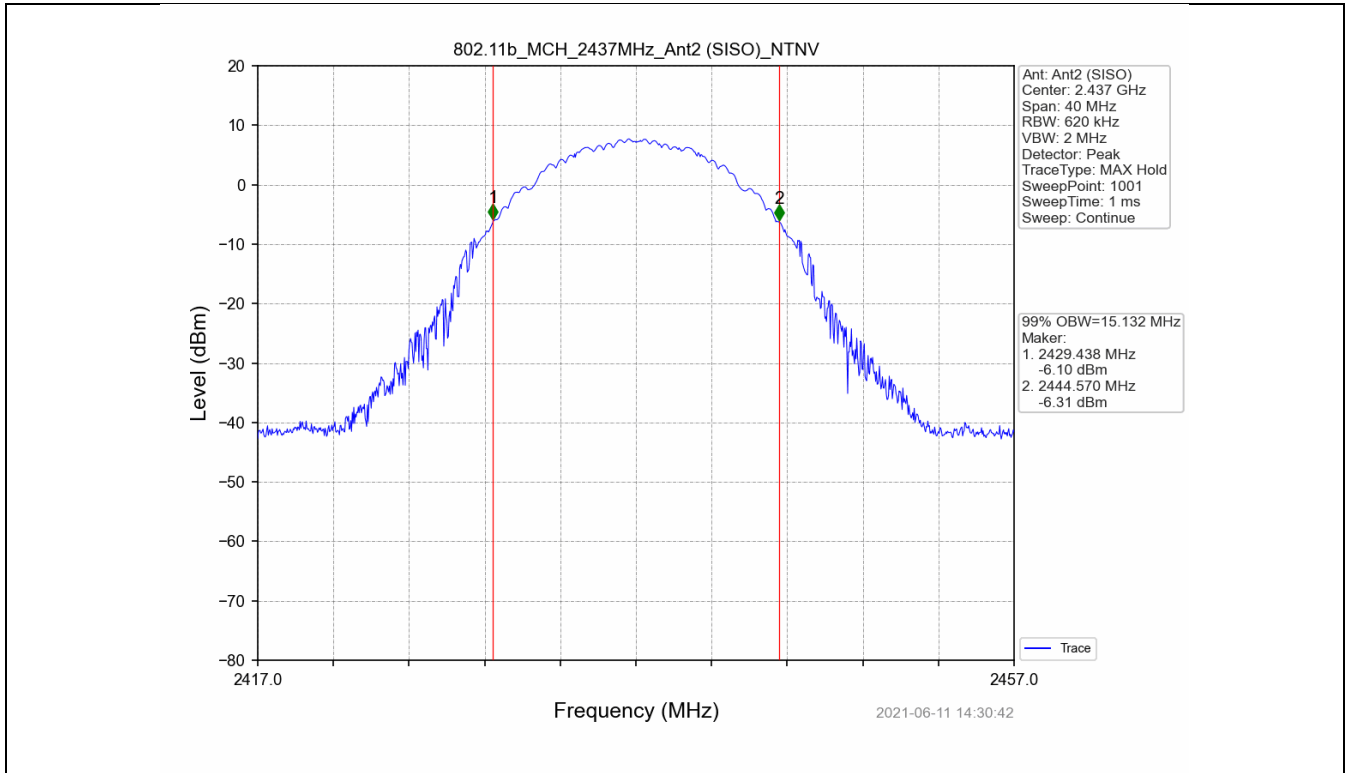


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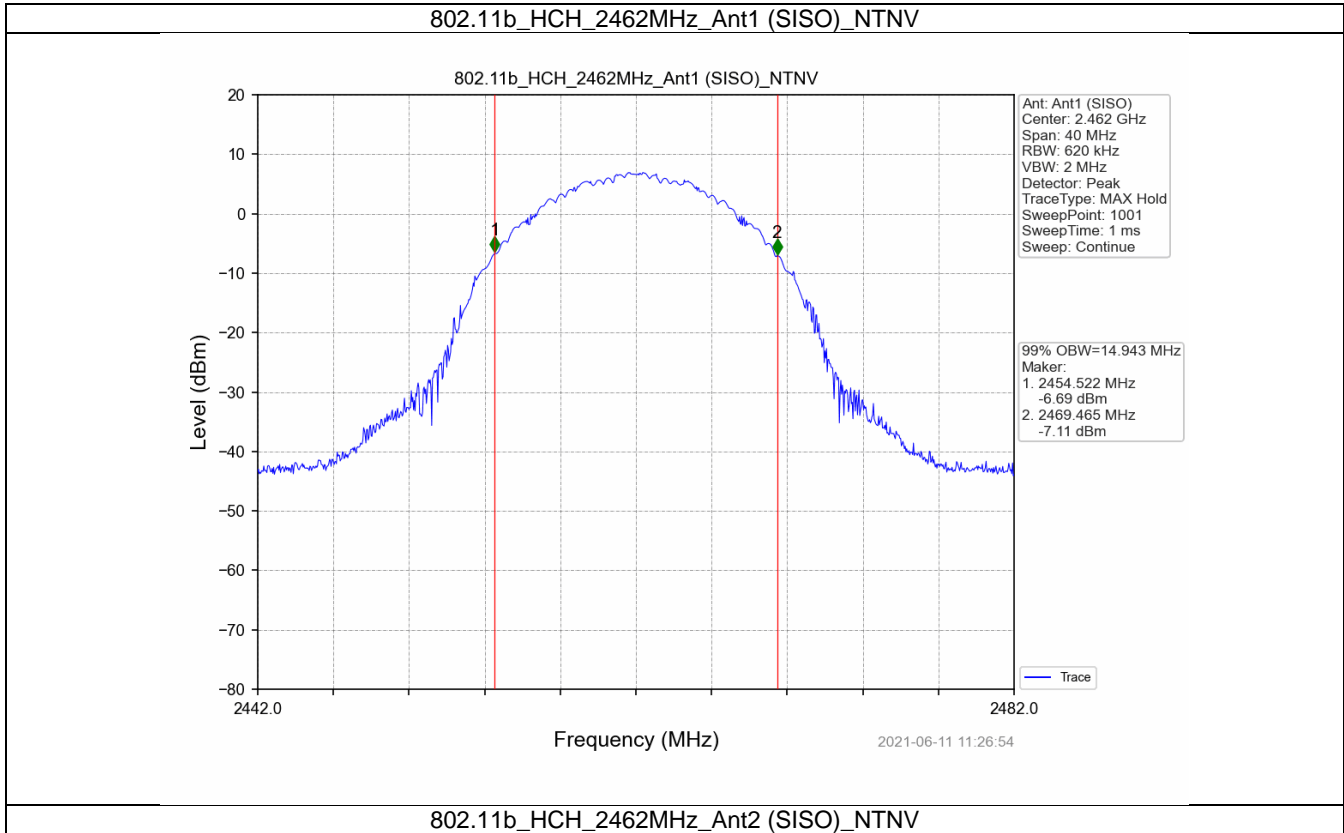


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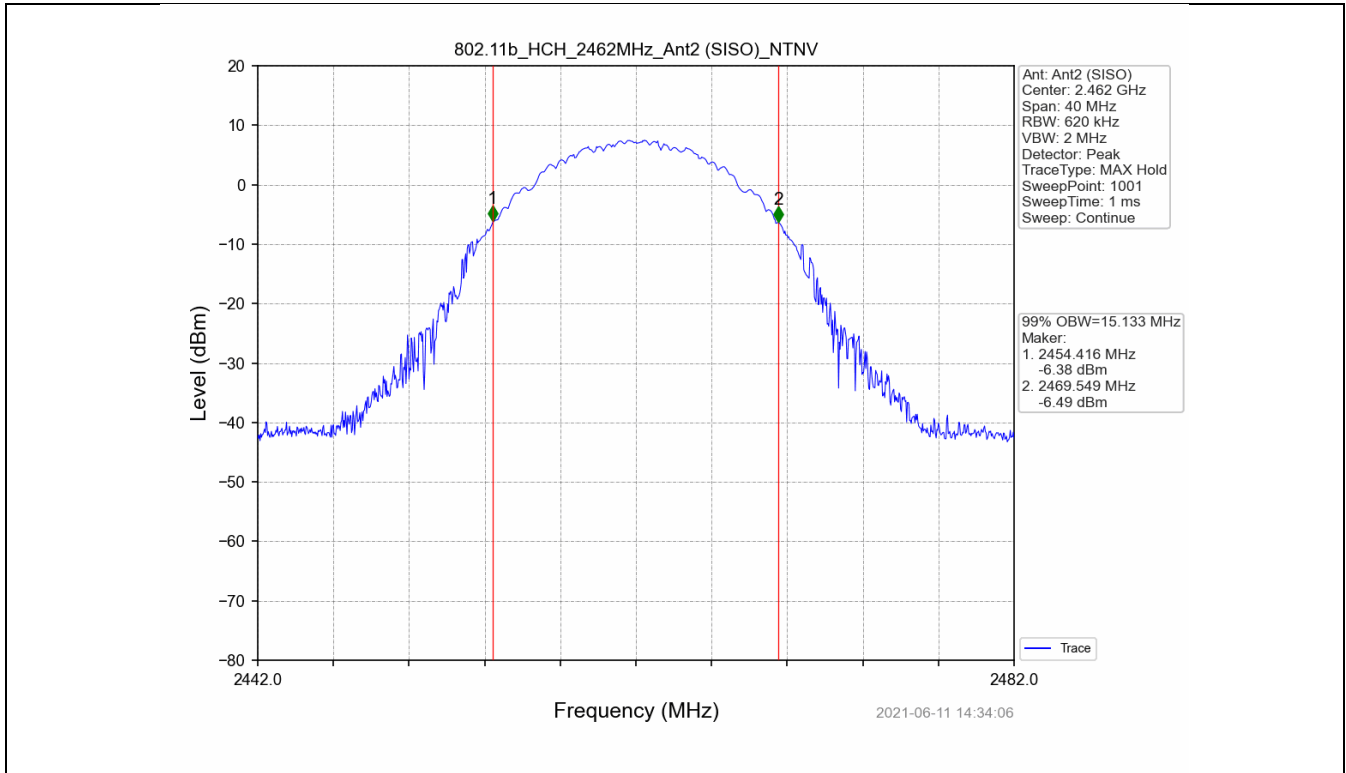
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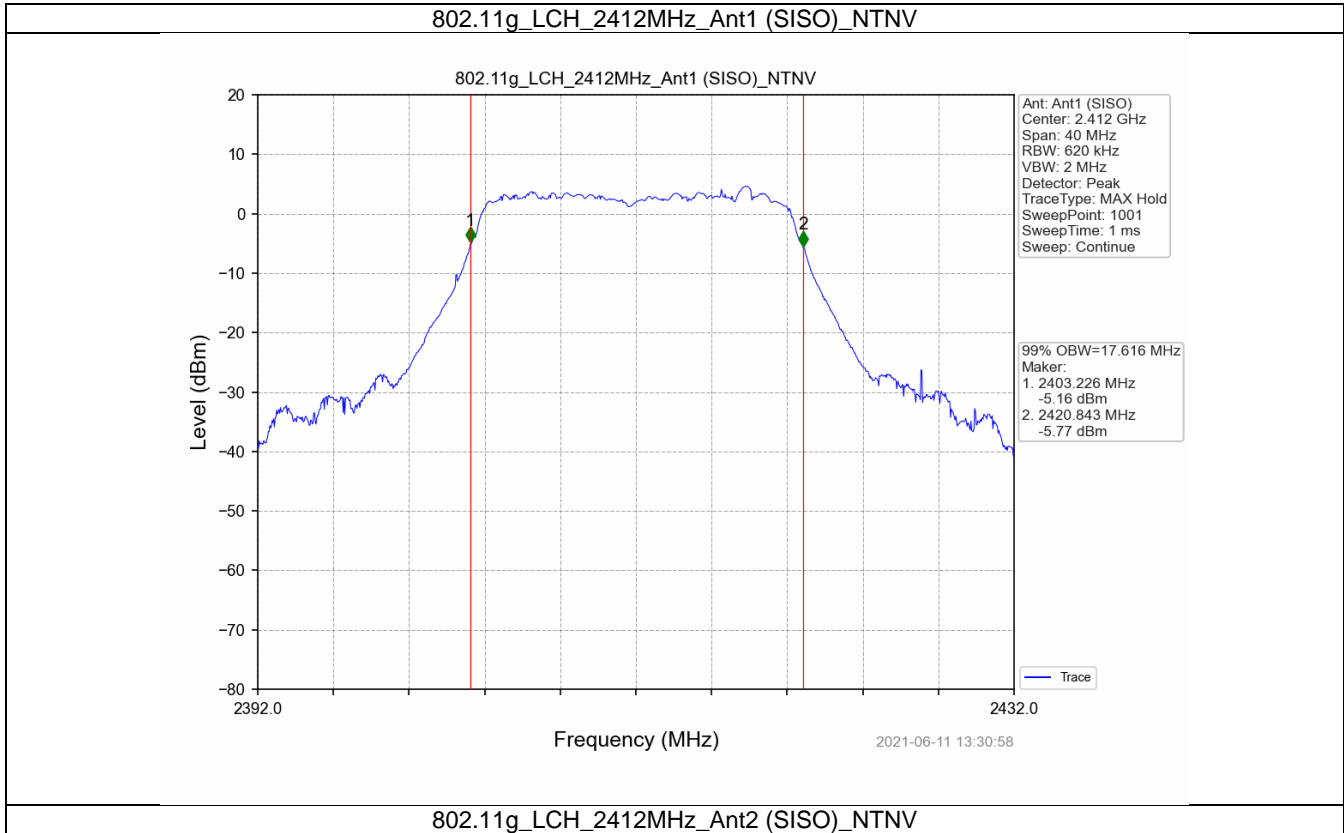


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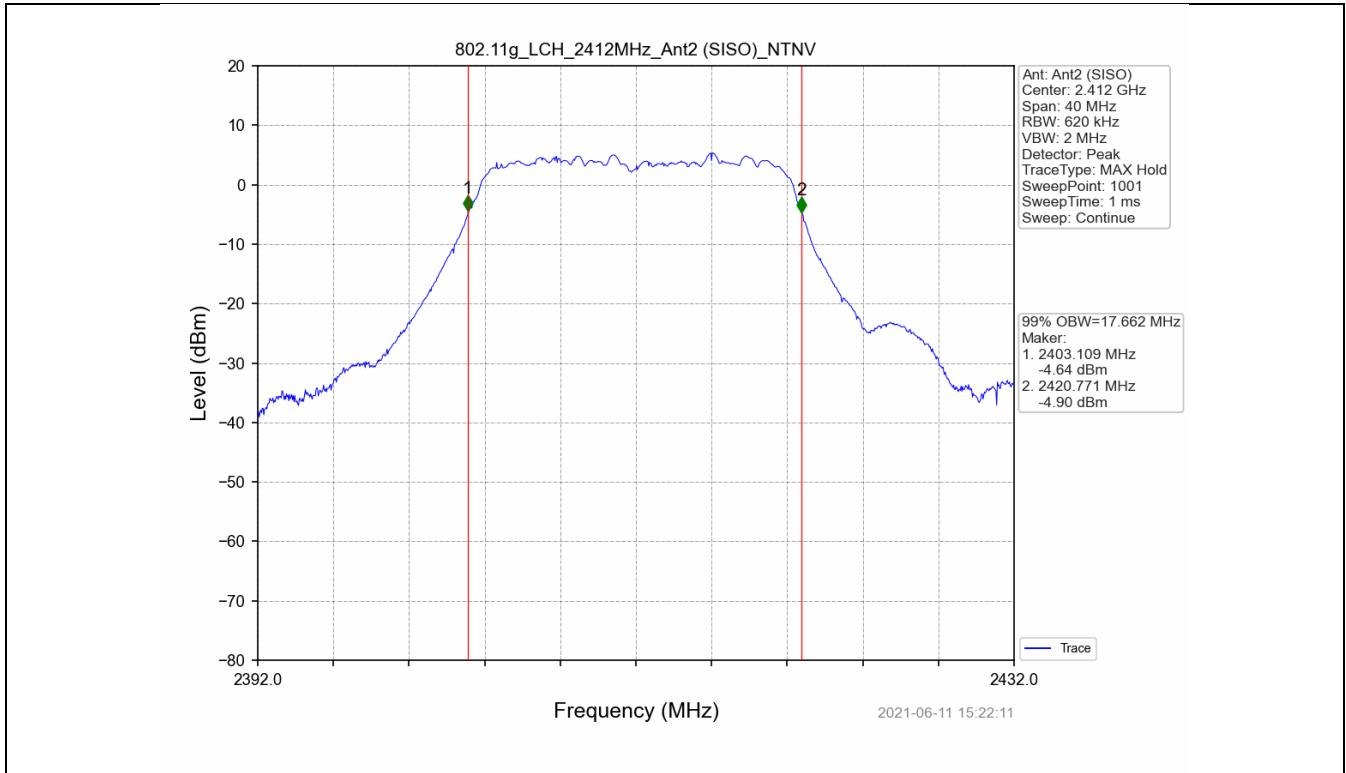


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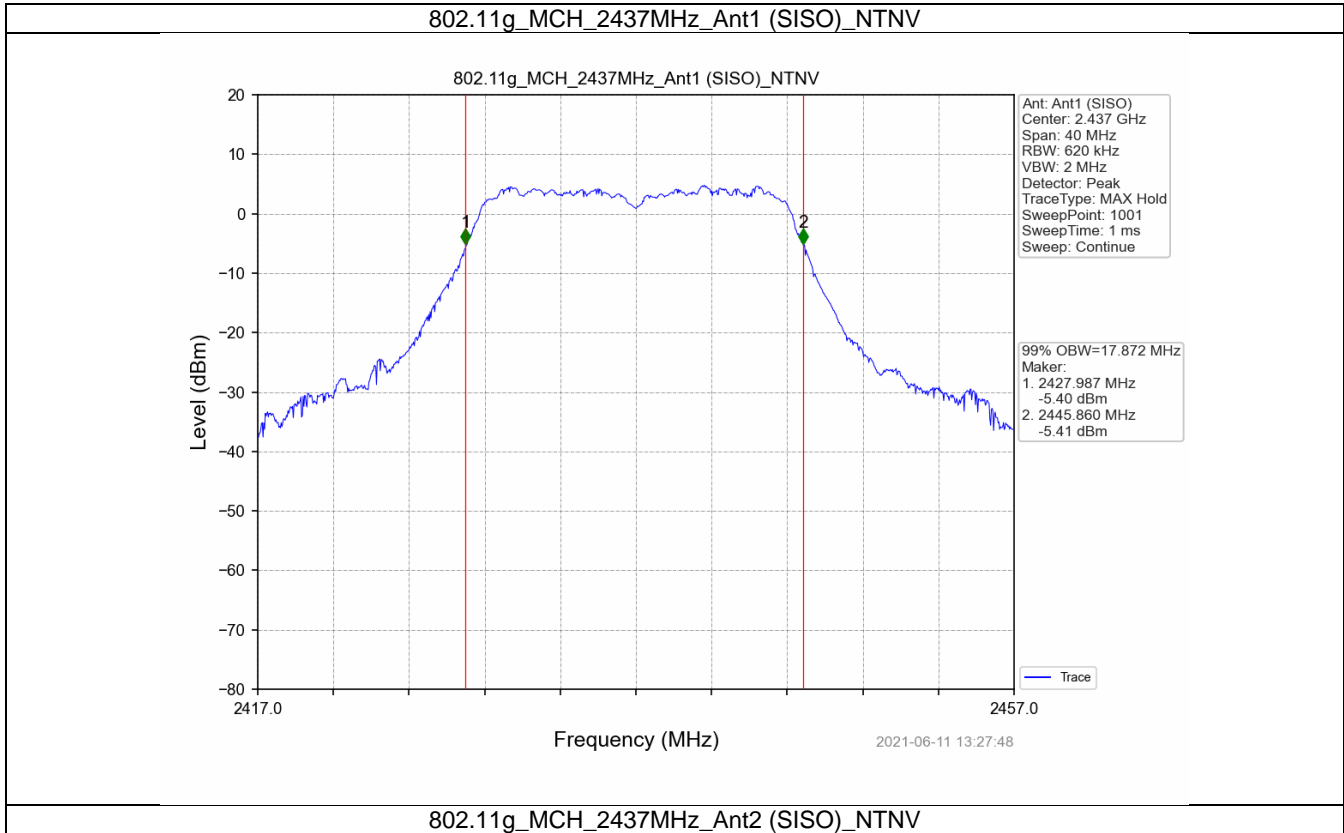


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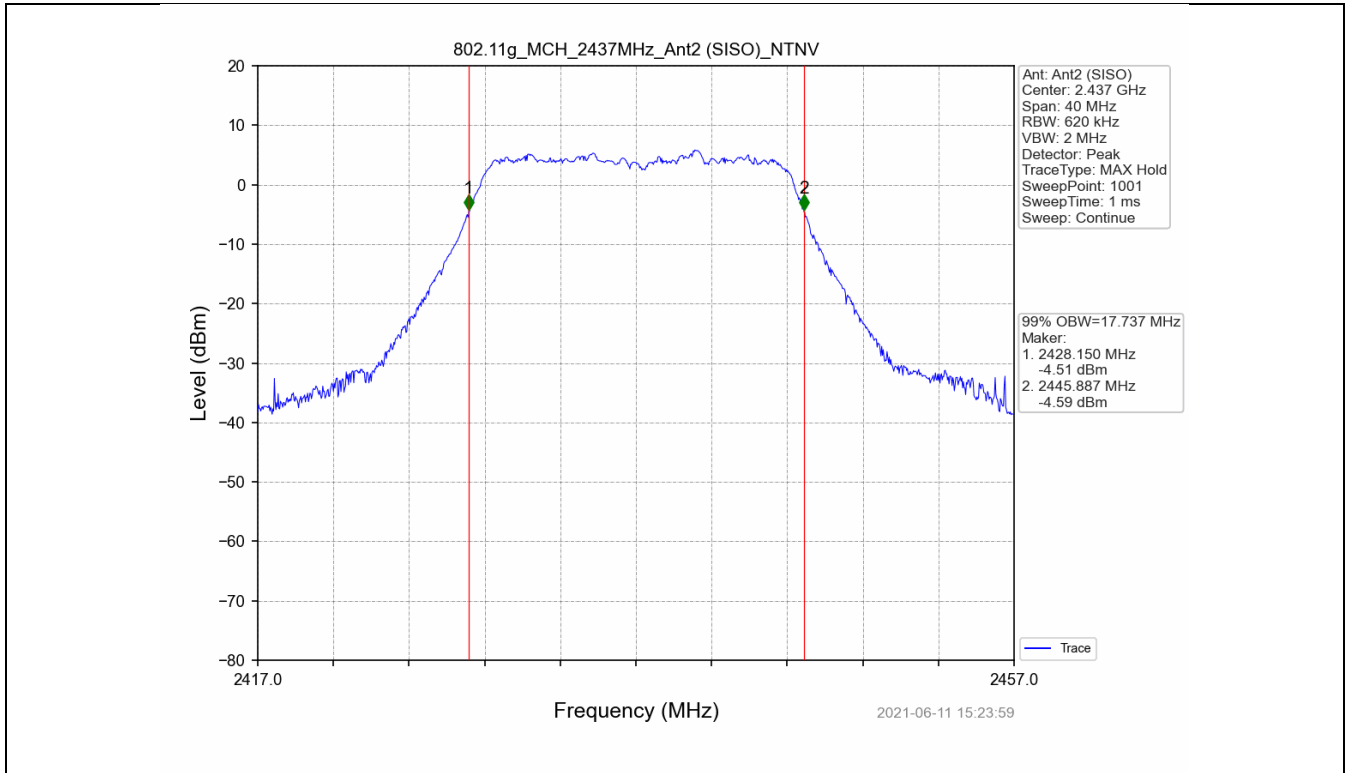


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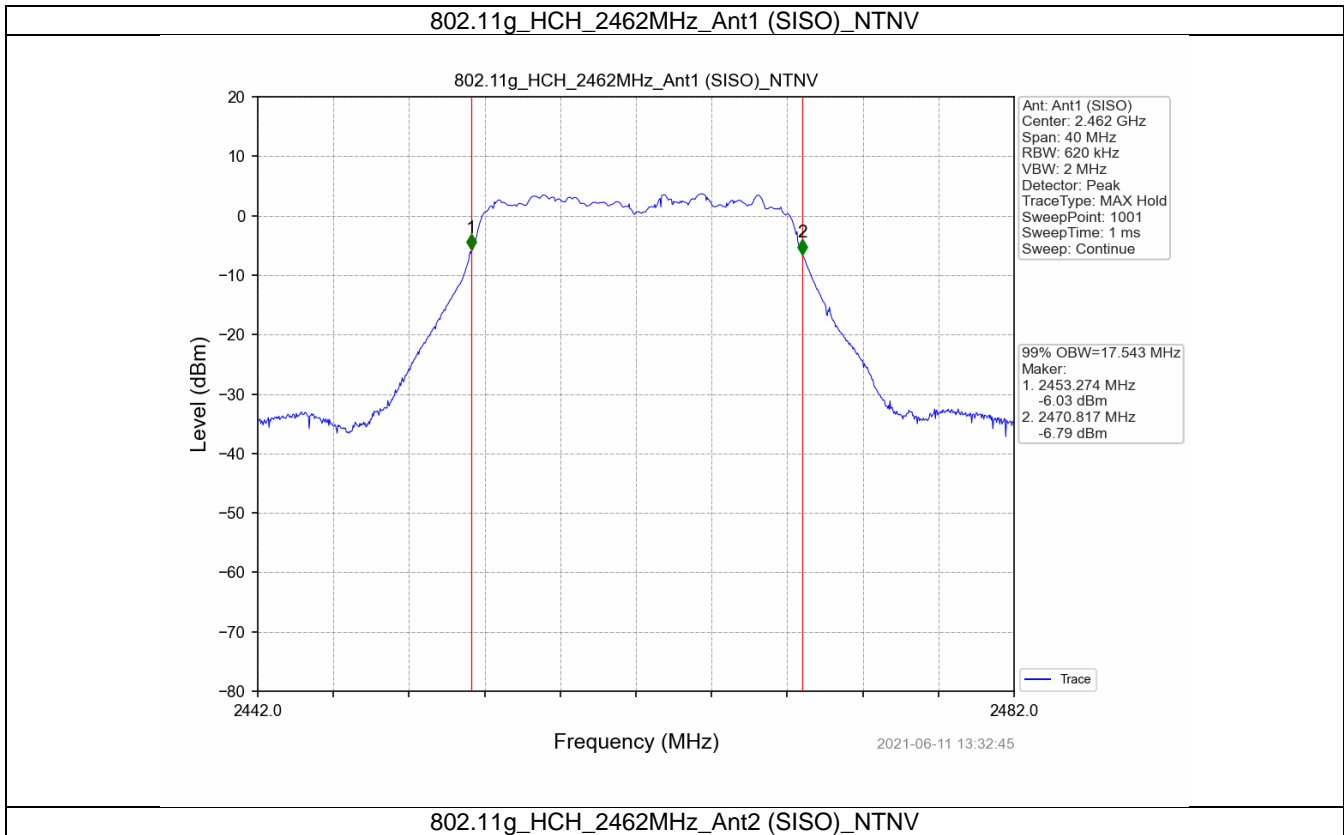
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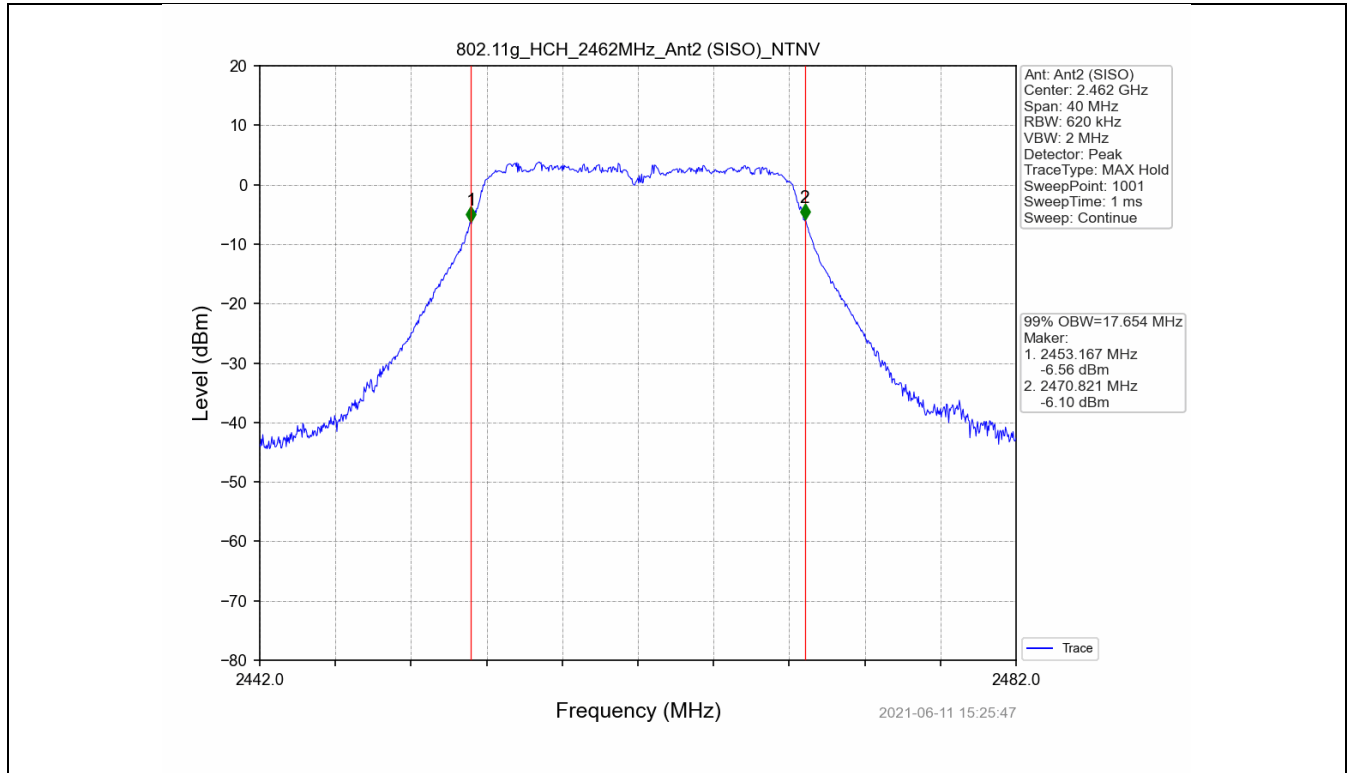


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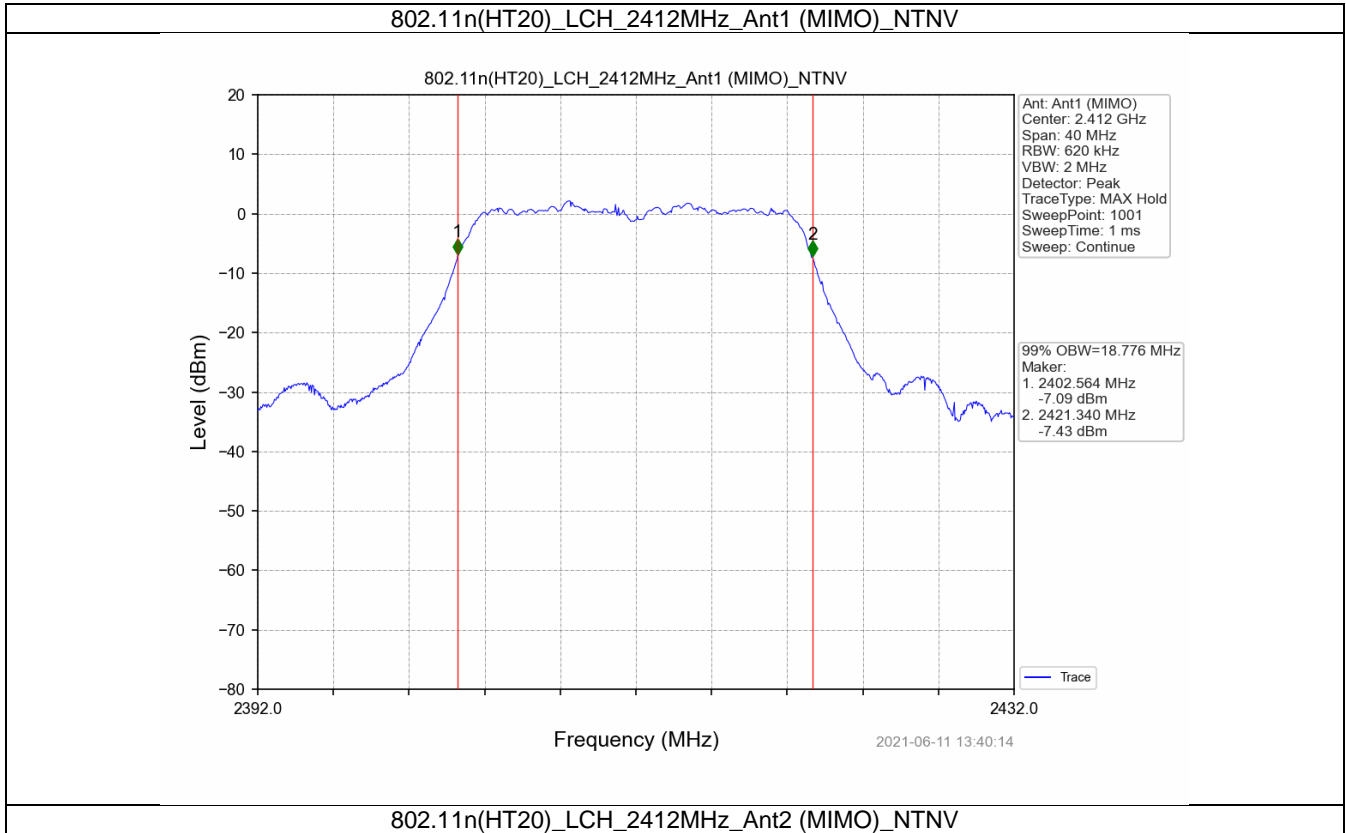


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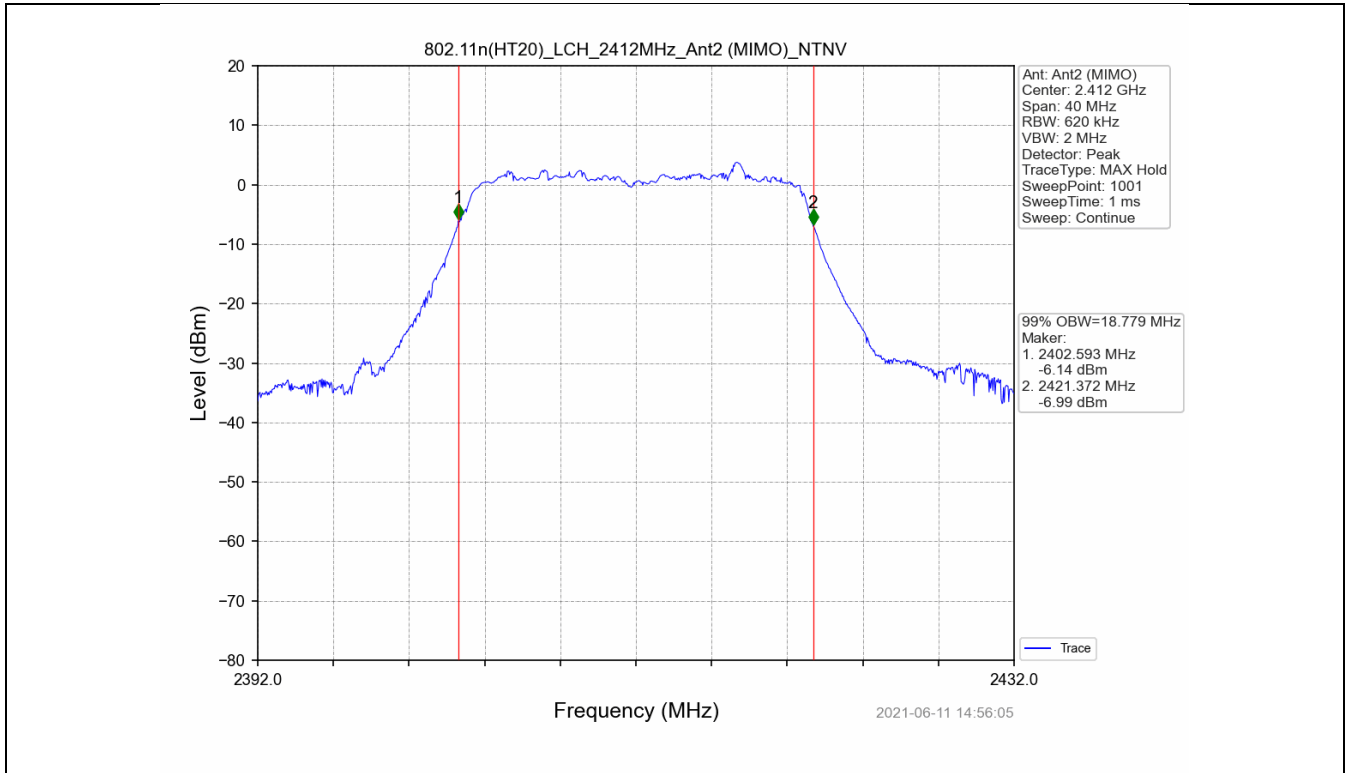


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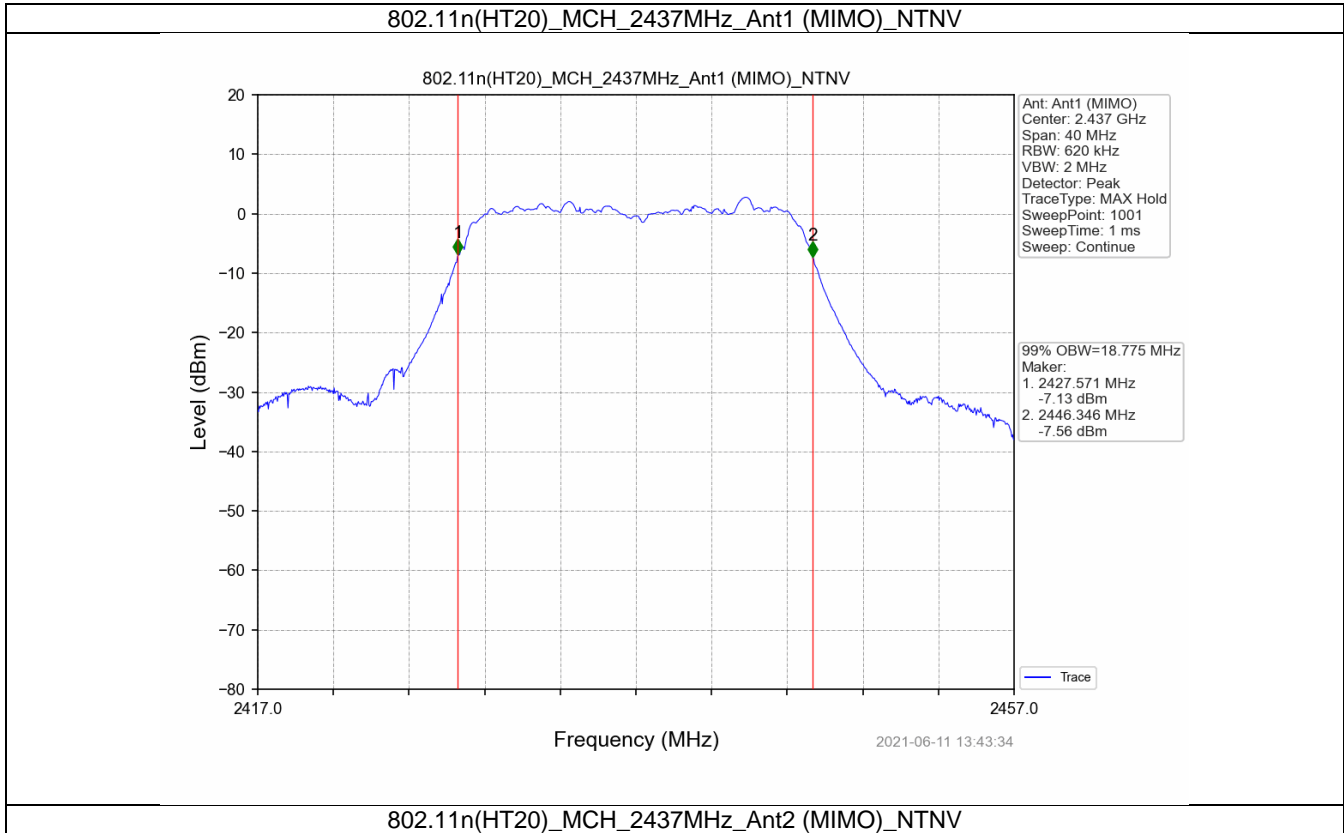


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802.11n(HT20)\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV

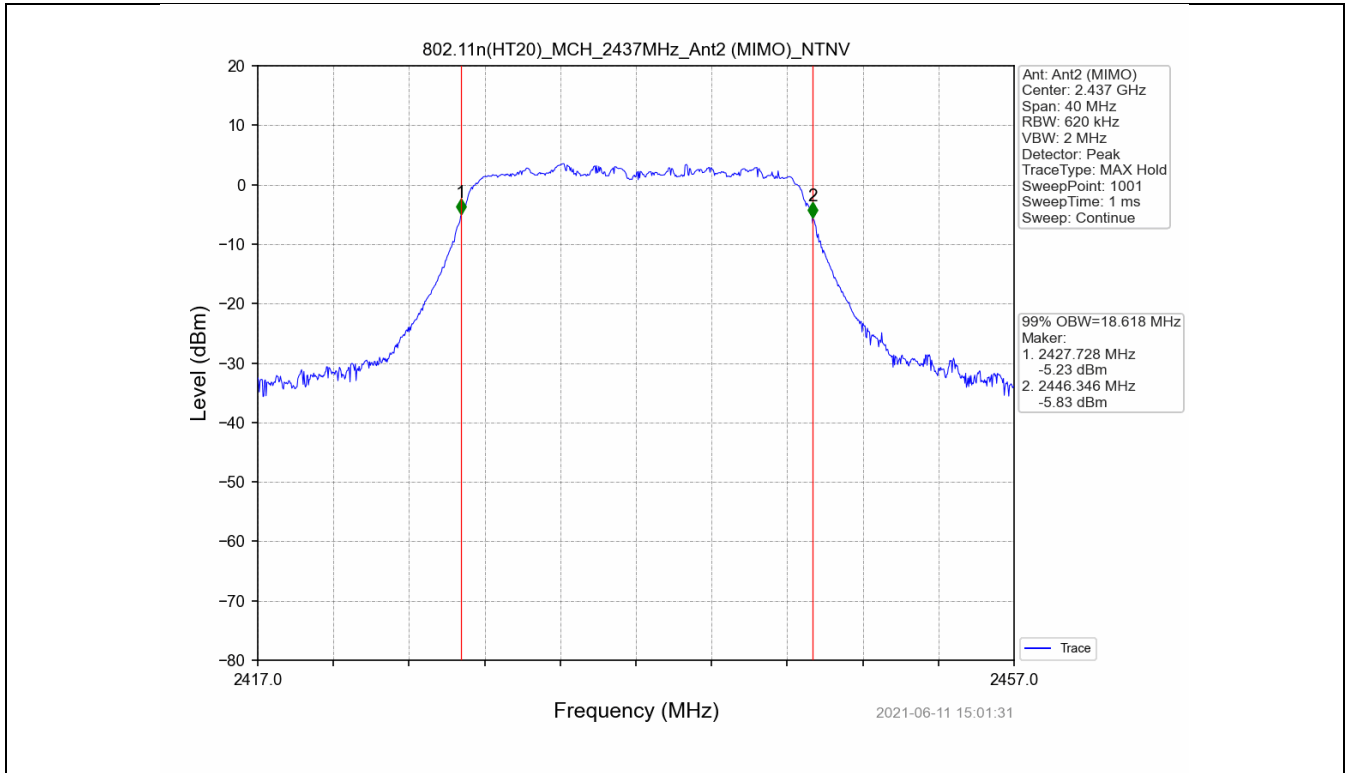


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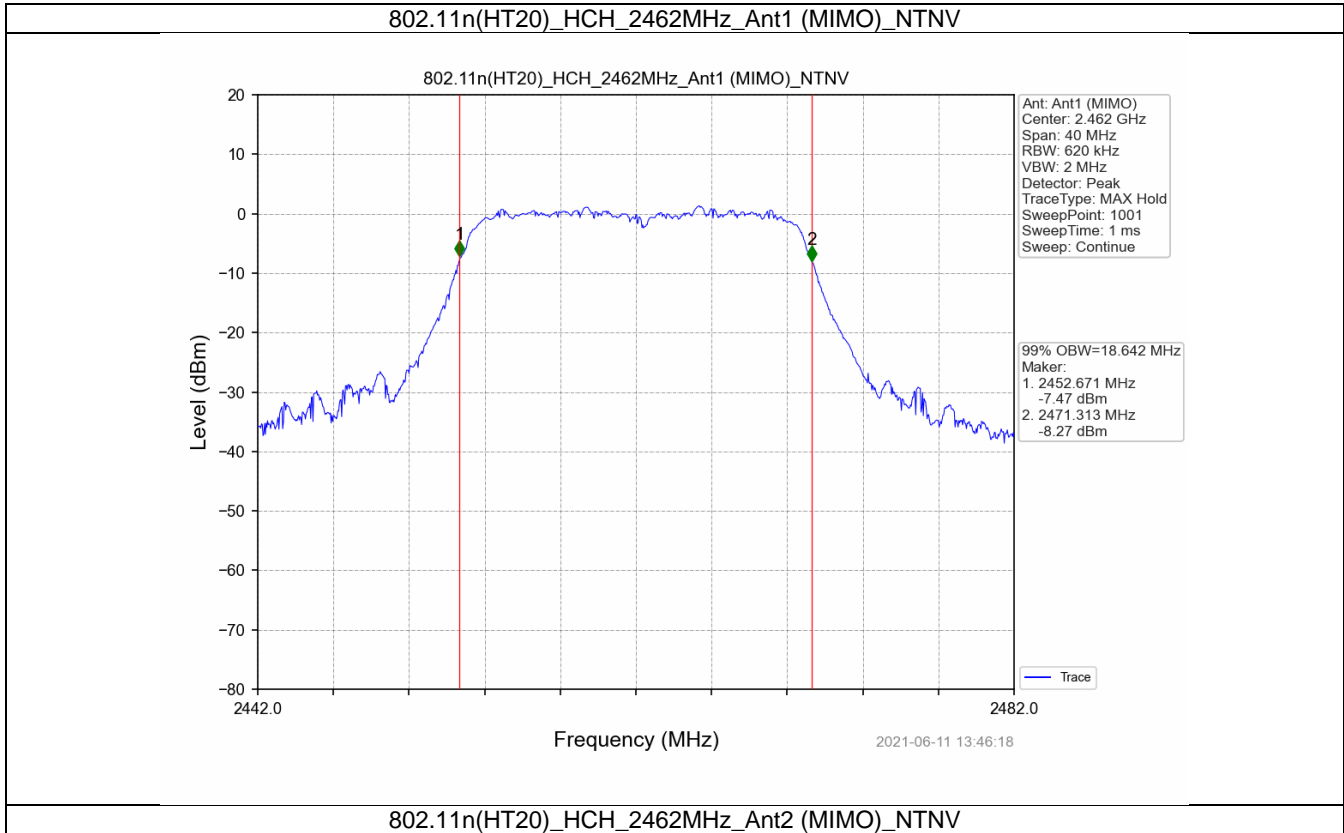


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802.11n(HT20)\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV

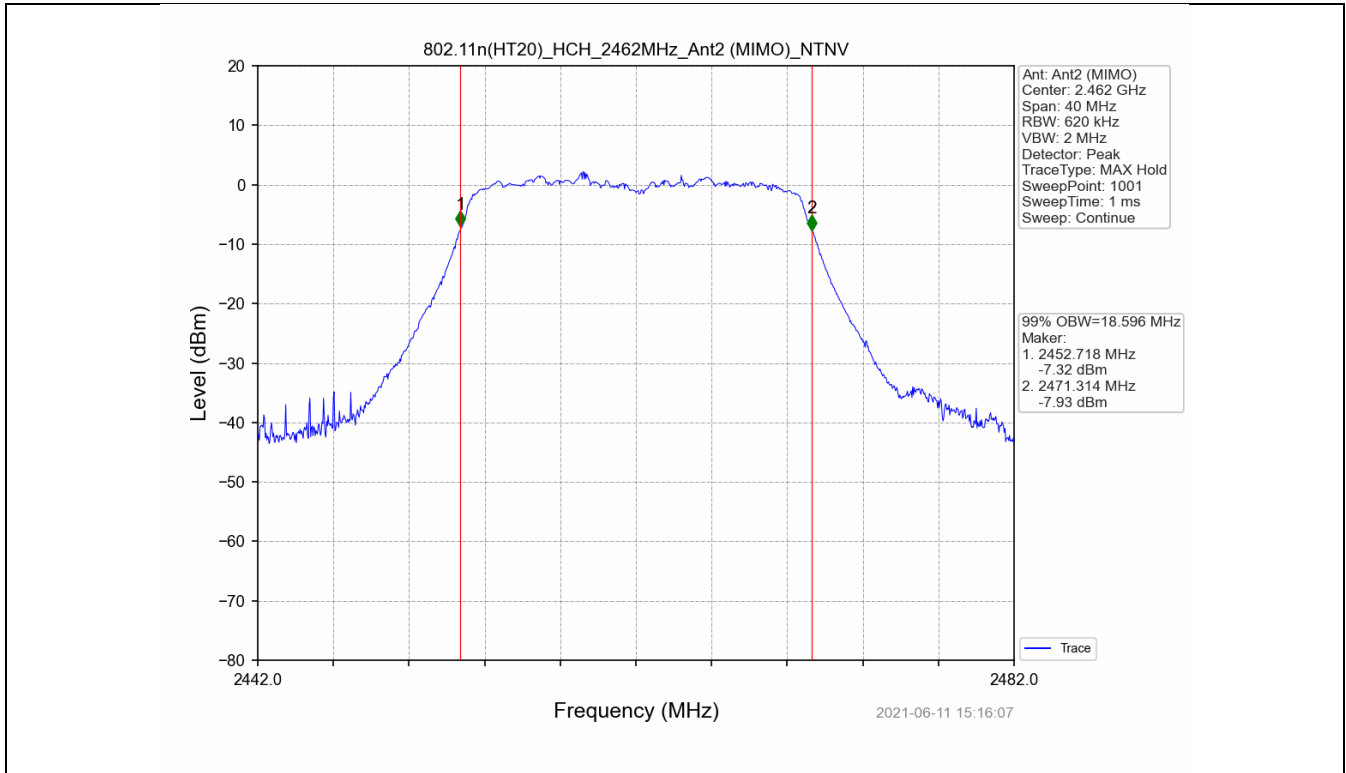


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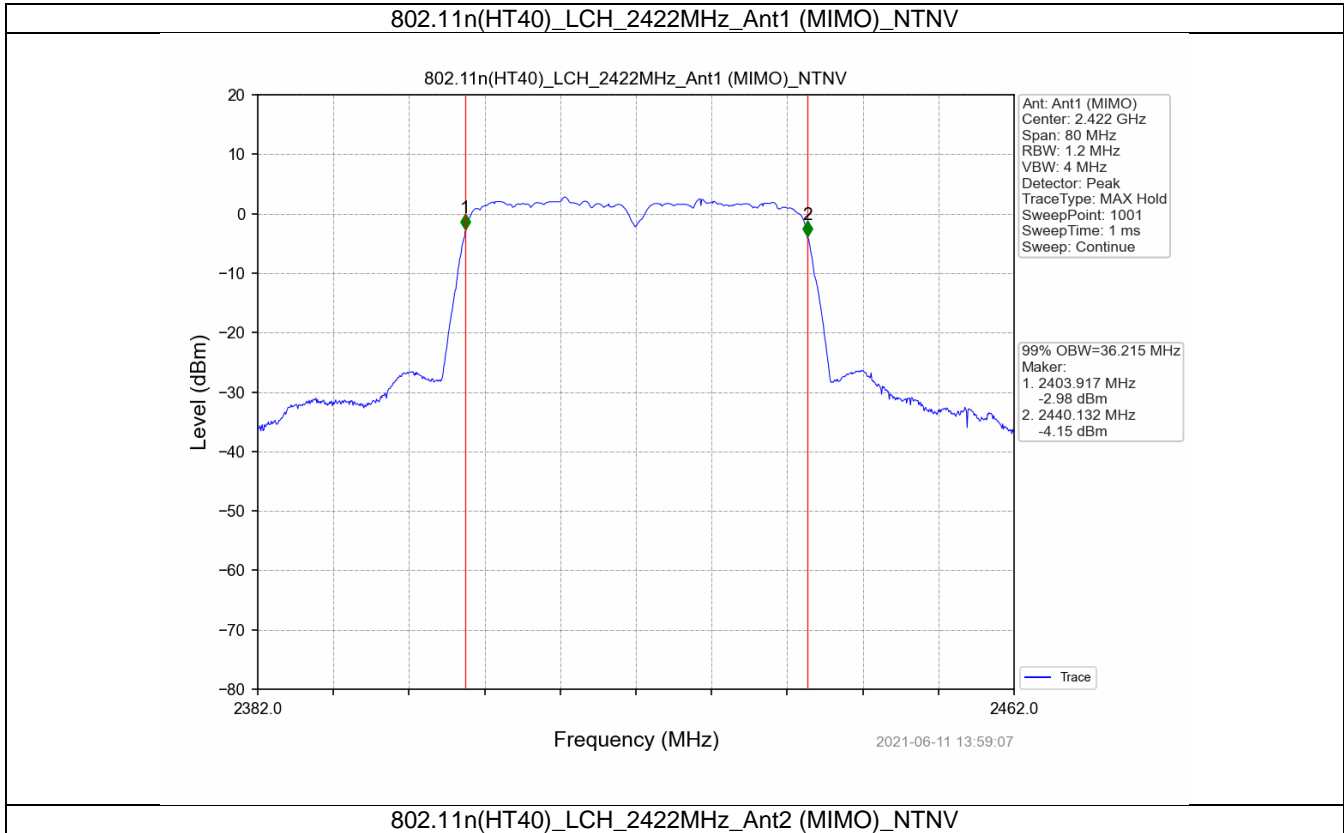
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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

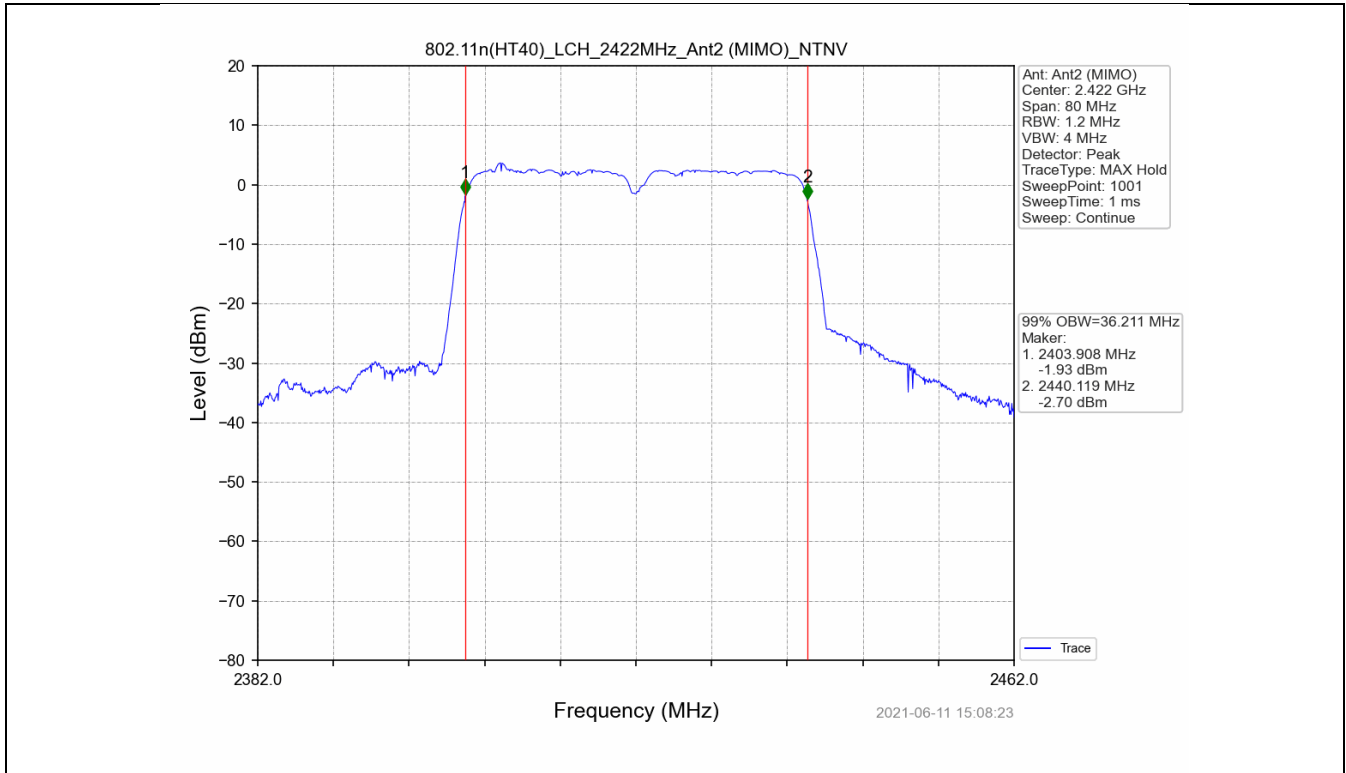


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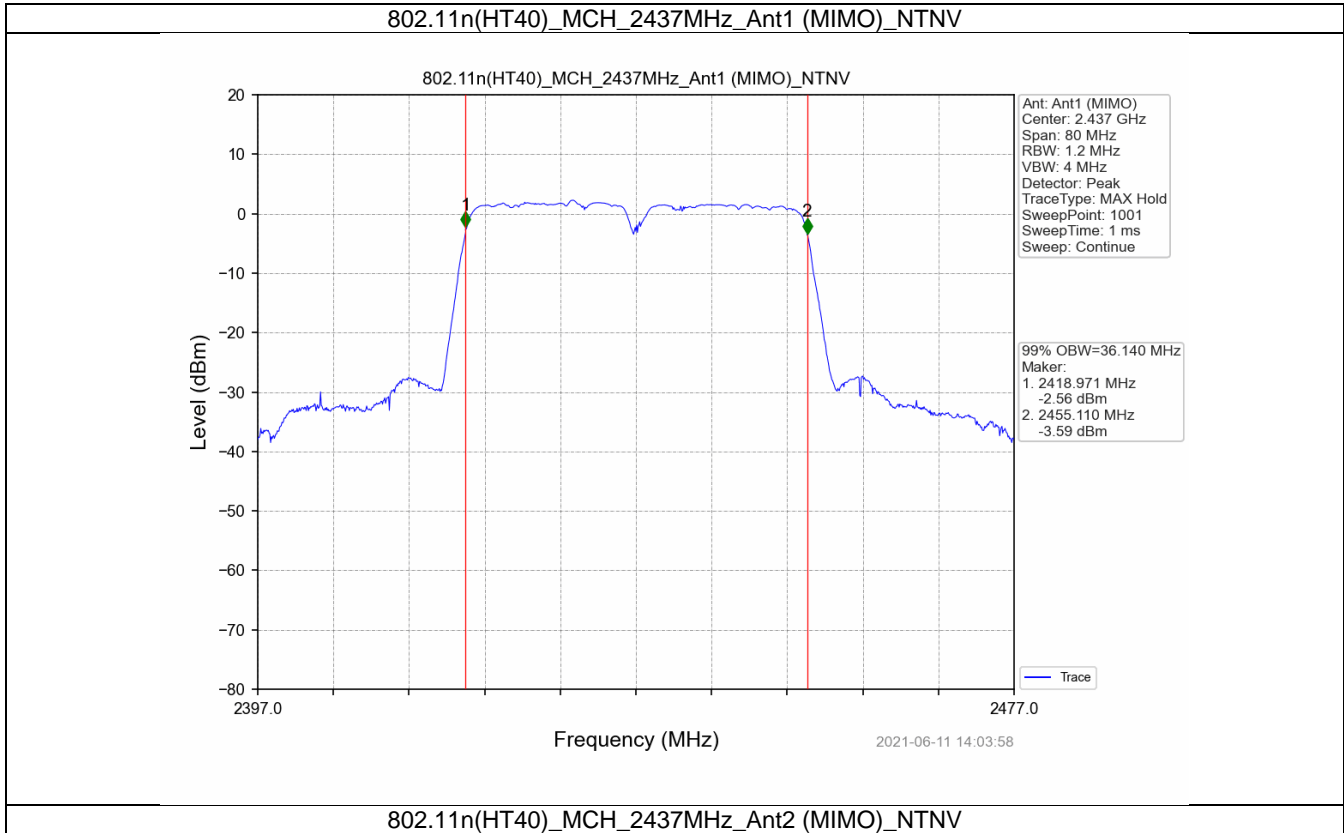


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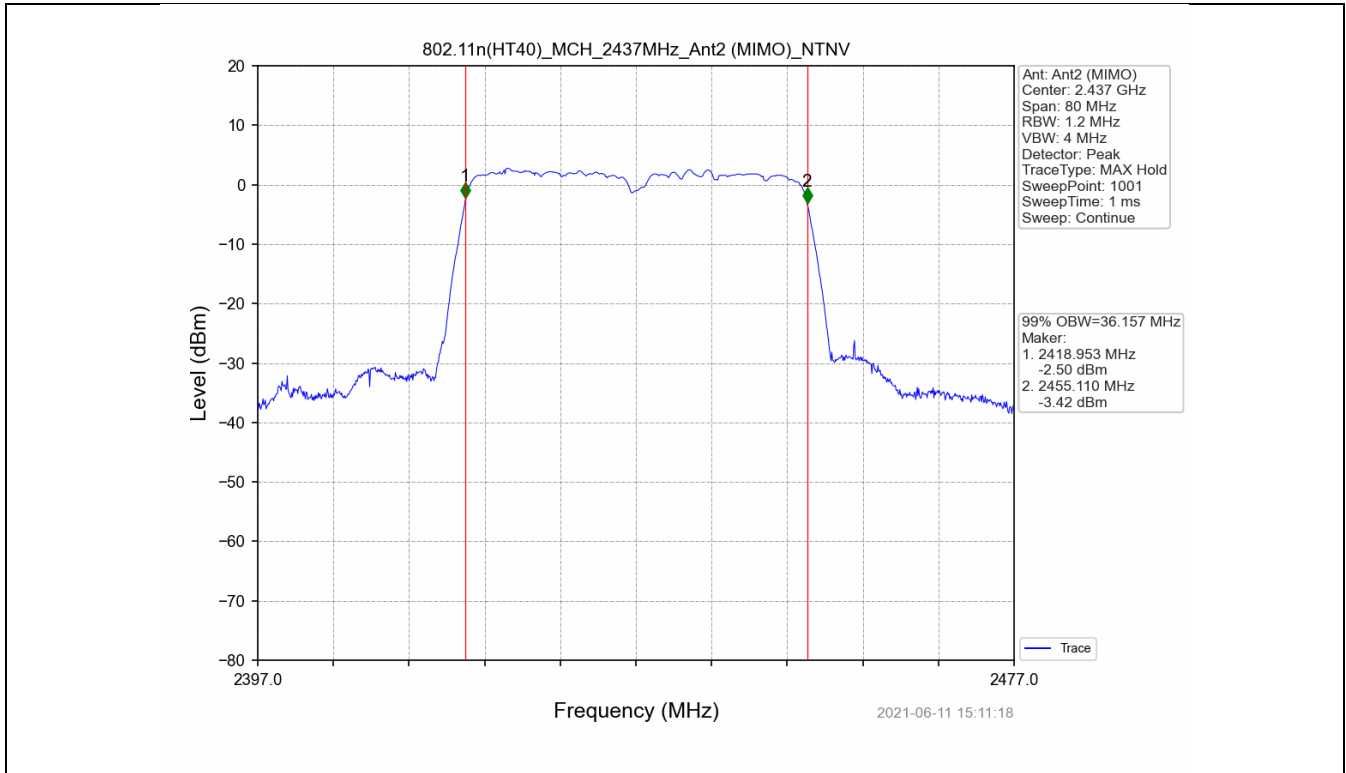
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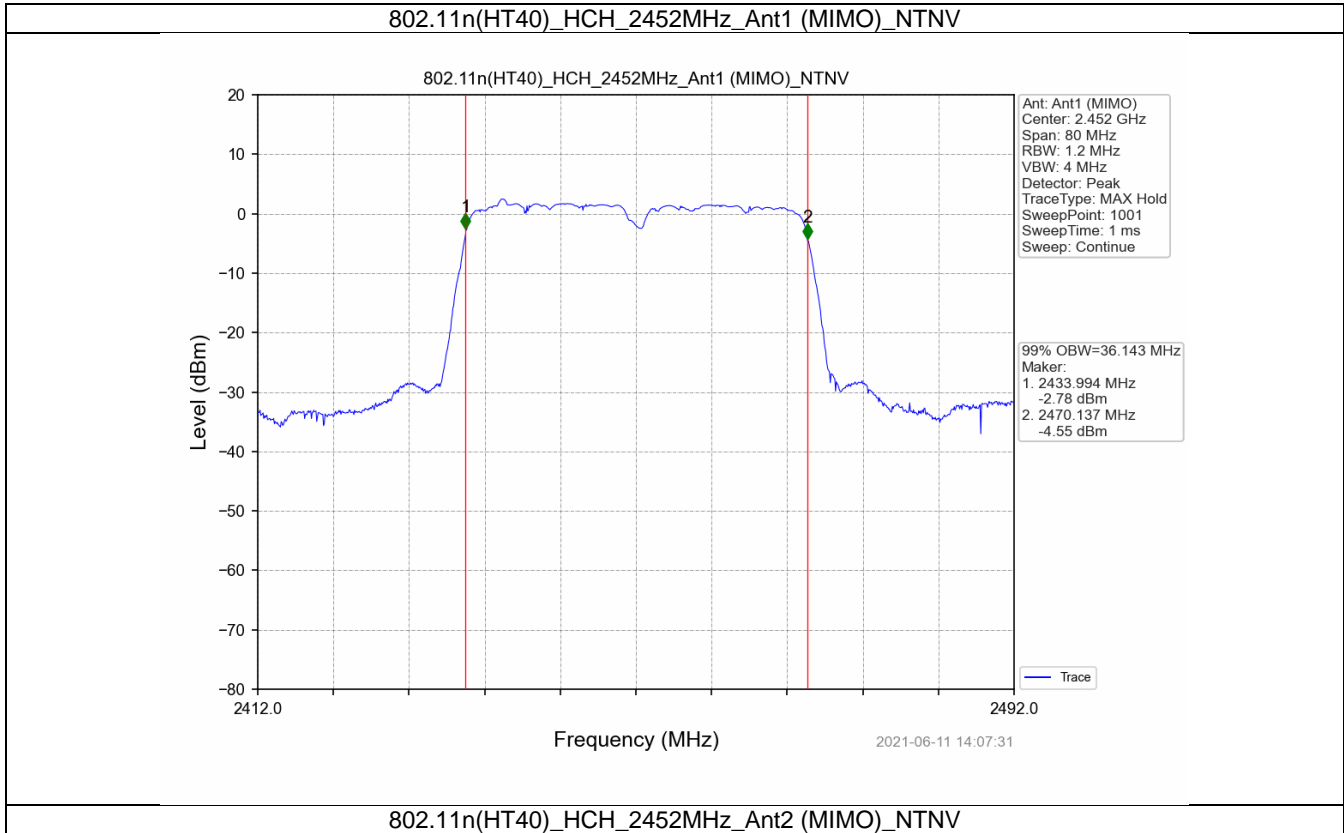


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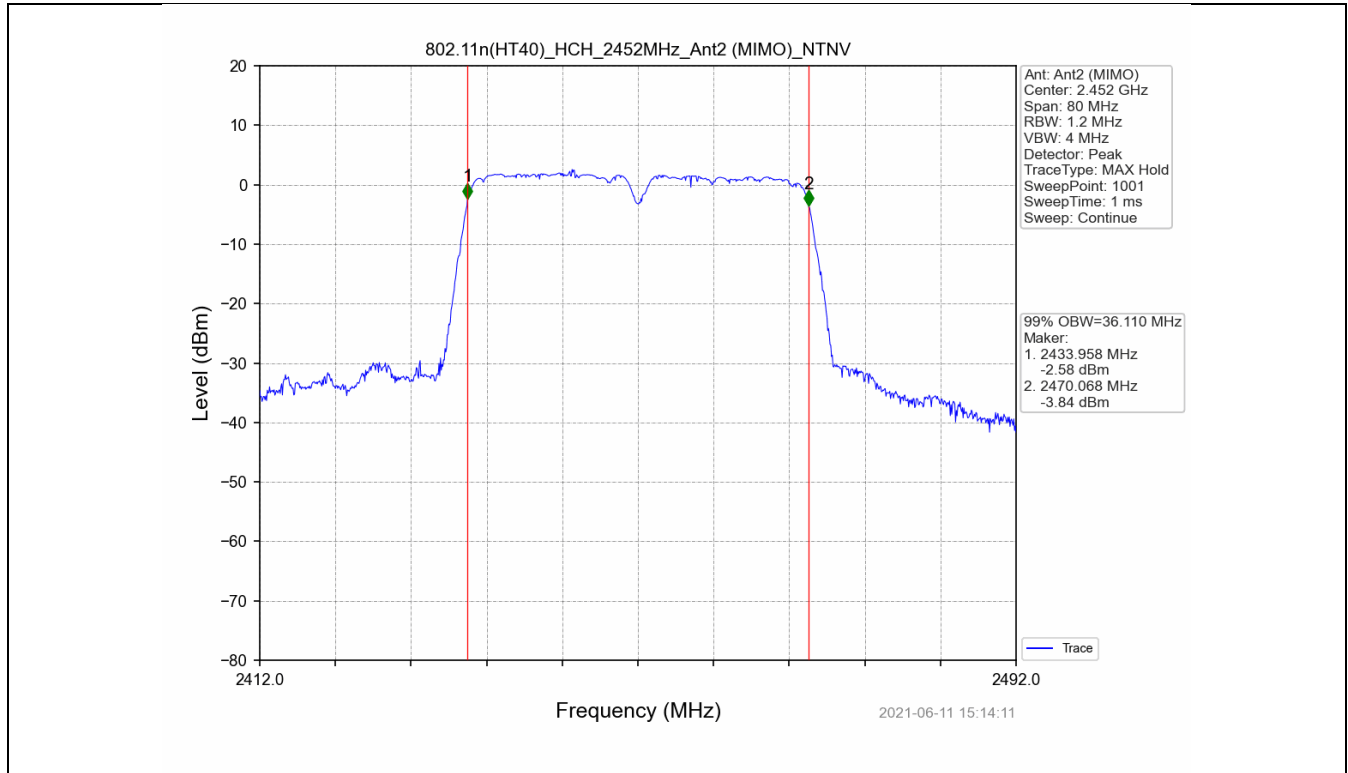


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## 2.2 XDB

### 2.2.1 Test Result

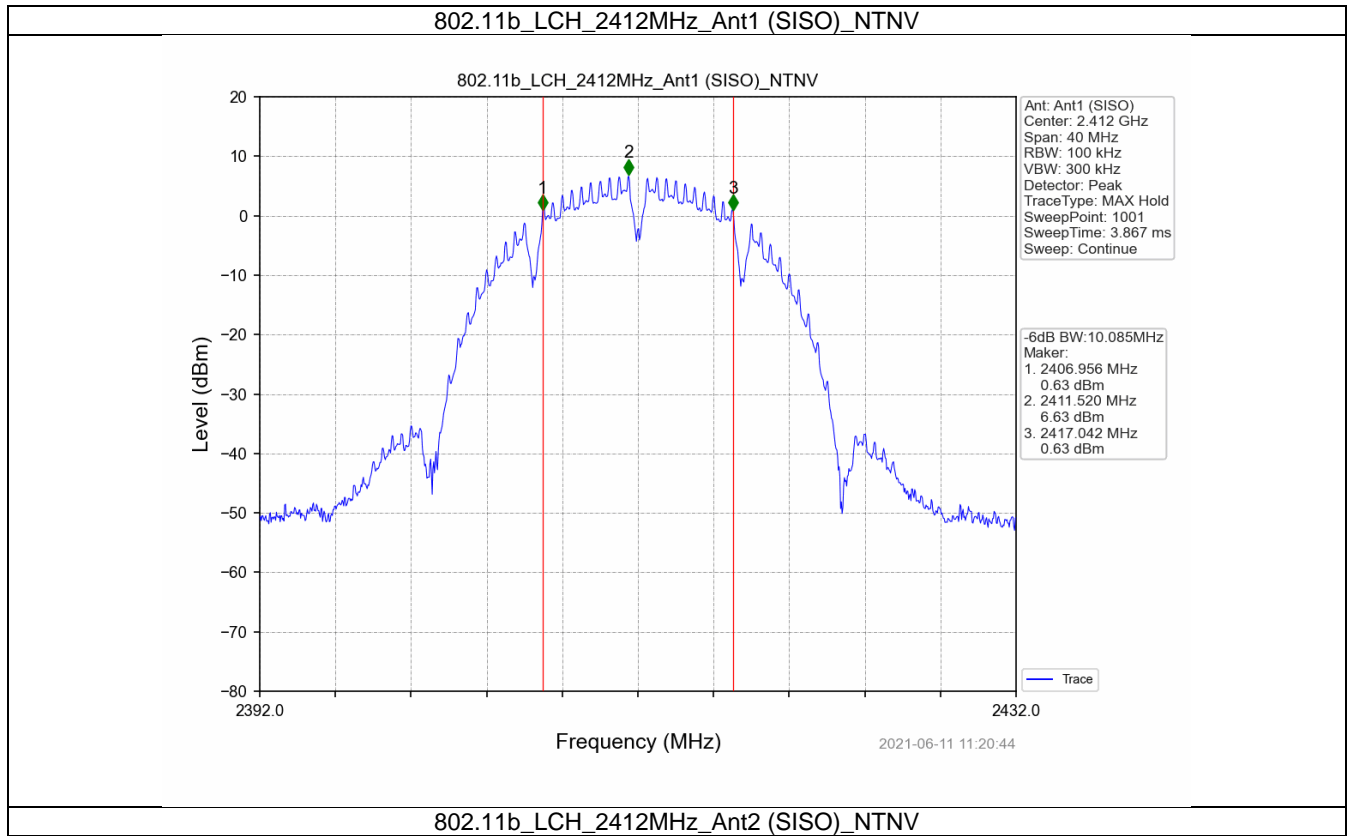
Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1	Ant2		
802.11b	SISO	2412	/	/	10.085	10.057	>=0.5	Pass
		2437	/	/	10.092	10.081	>=0.5	Pass
		2462	/	/	10.085	10.075	>=0.5	Pass
802.11g	SISO	2412	/	/	16.380	16.396	>=0.5	Pass
		2437	/	/	16.378	16.394	>=0.5	Pass
		2462	/	/	16.380	16.422	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	17.586	17.566	>=0.5	Pass
		2437	/	/	17.572	17.575	>=0.5	Pass
		2462	/	/	17.557	17.258	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	35.634	35.691	>=0.5	Pass
		2437	/	/	35.529	35.568	>=0.5	Pass
		2452	/	/	35.533	35.509	>=0.5	Pass



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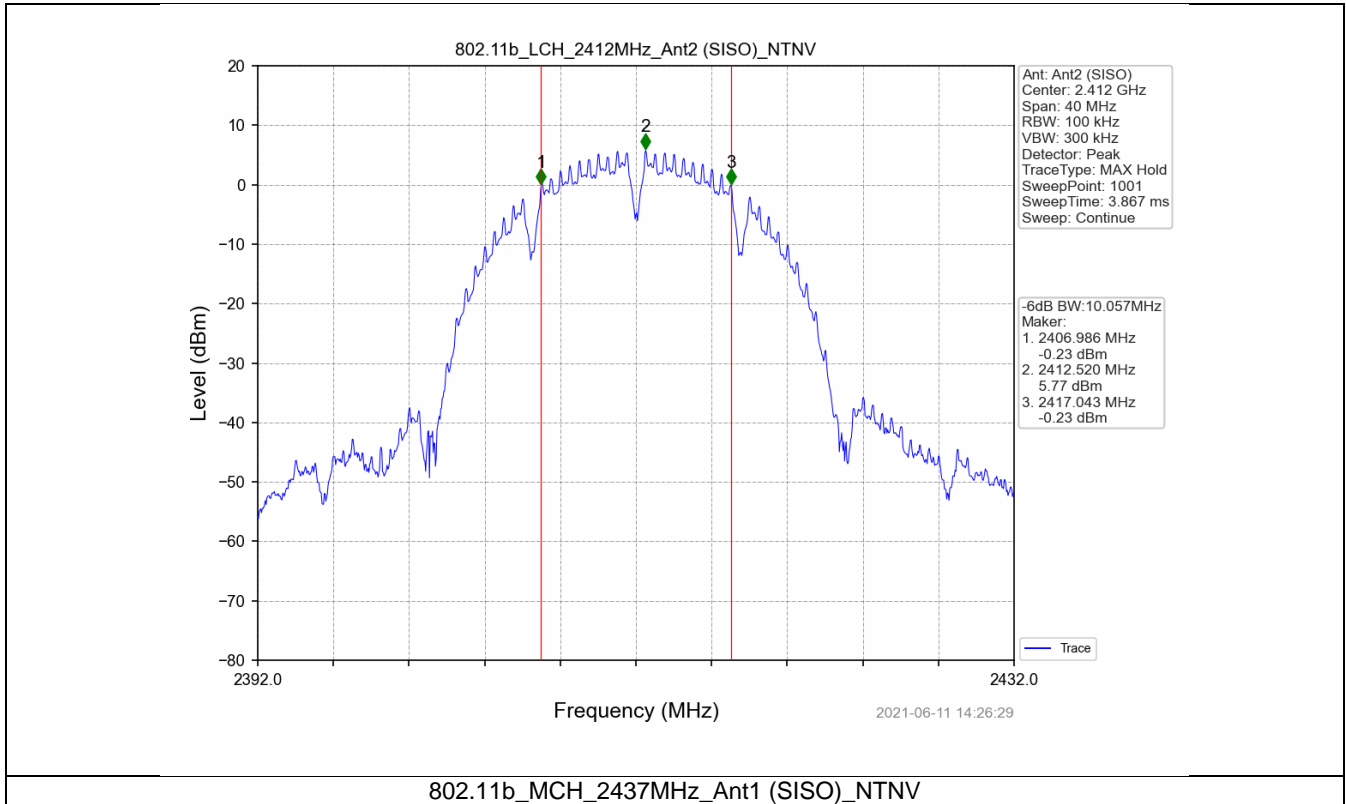
## 2.2.2 Test Graph



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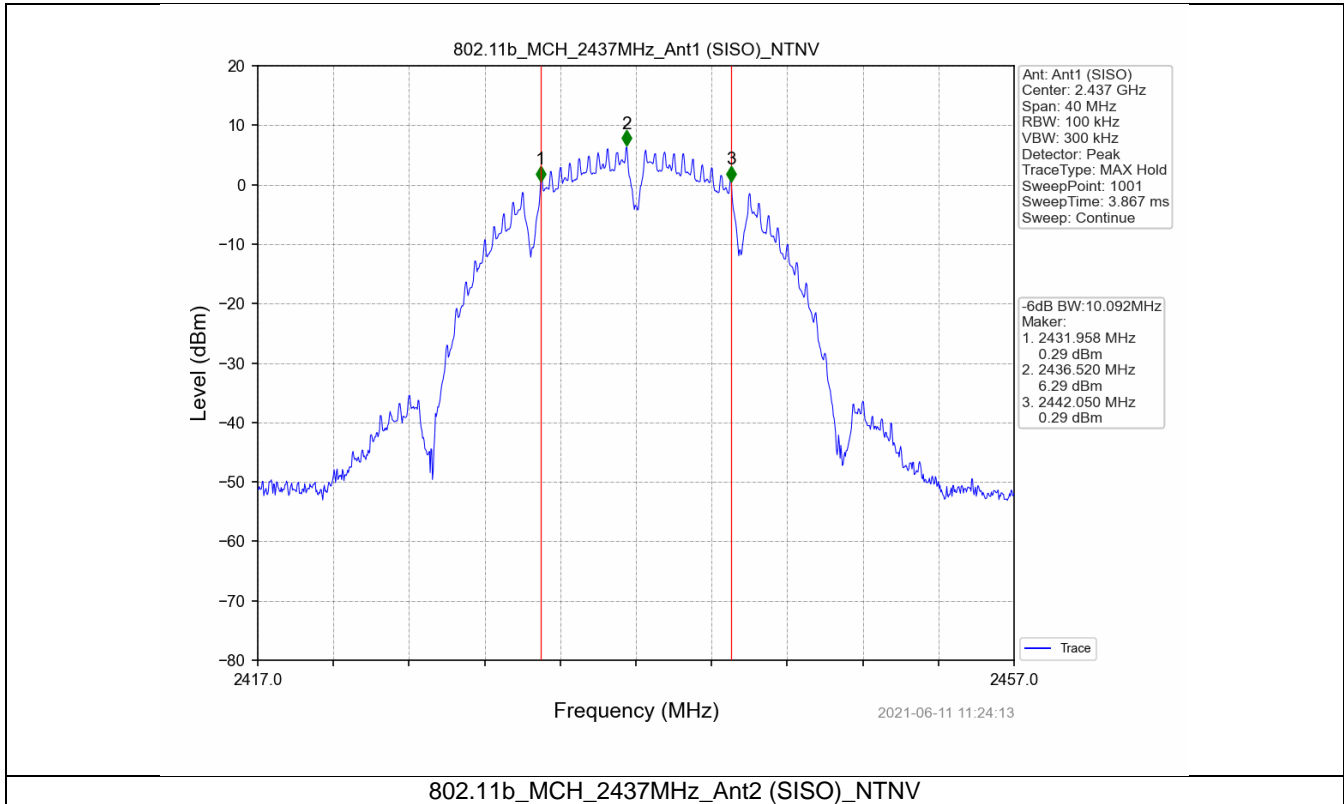
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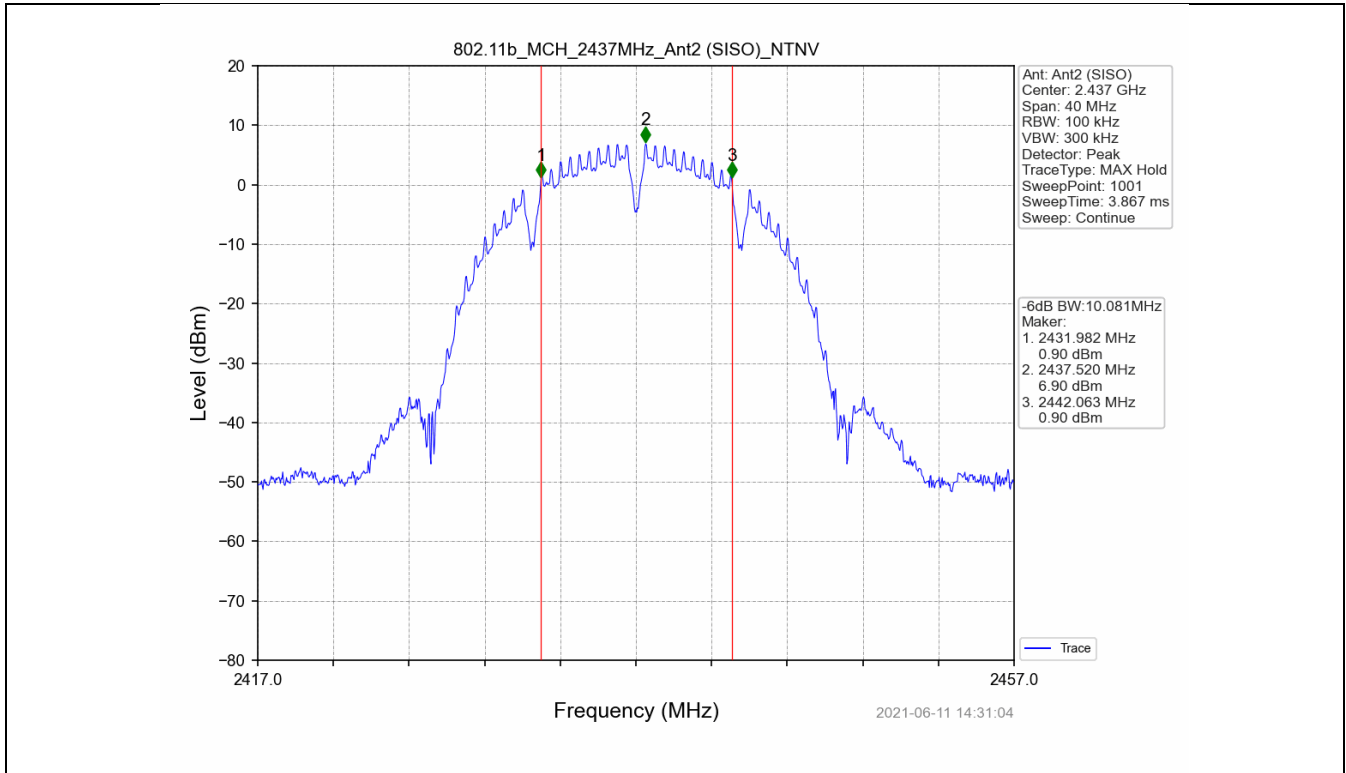


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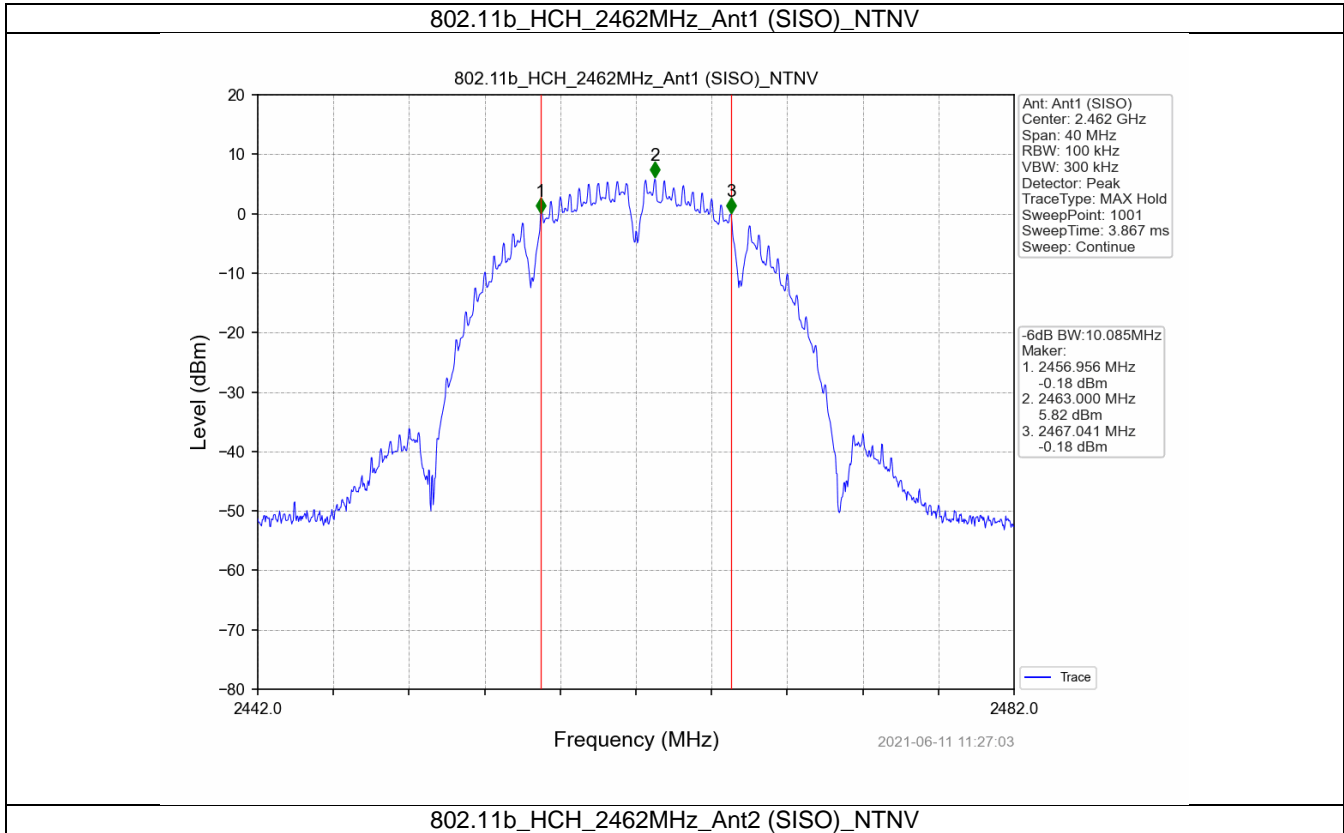


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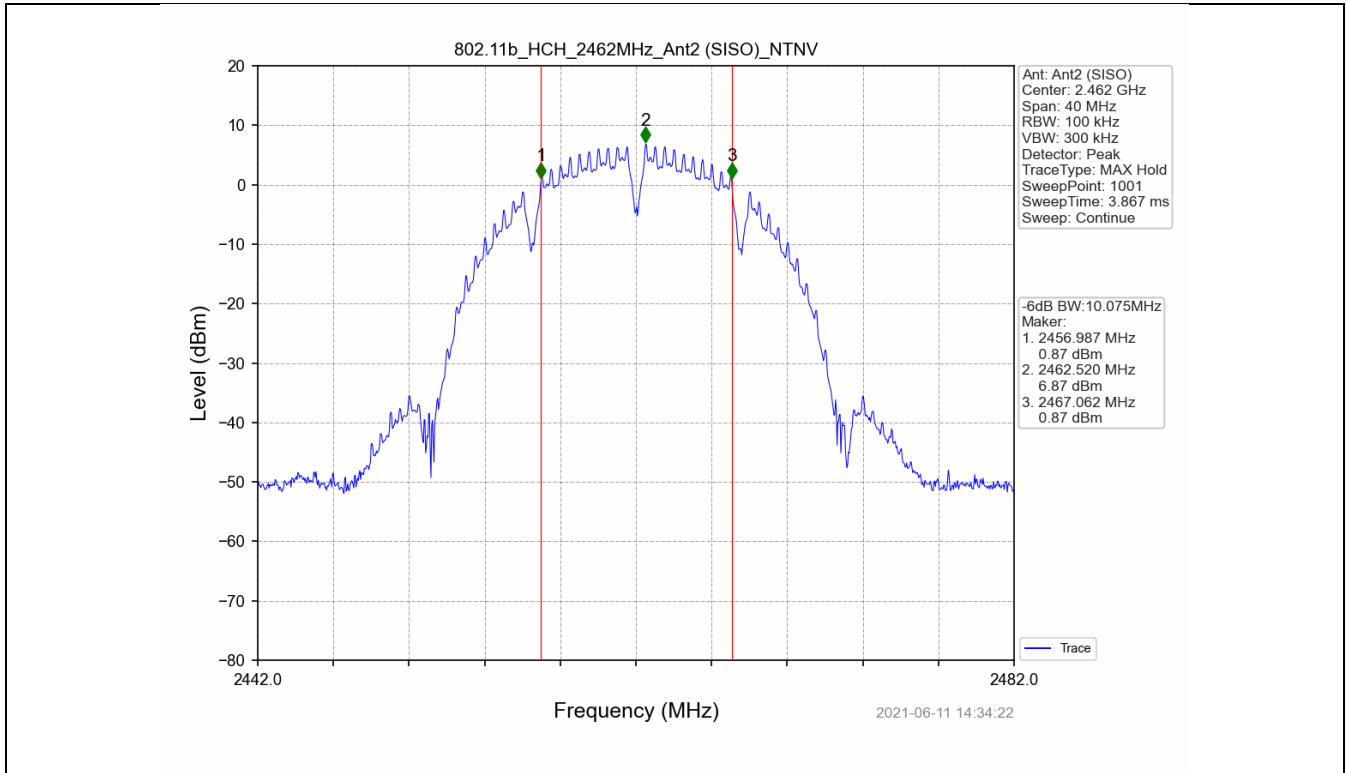
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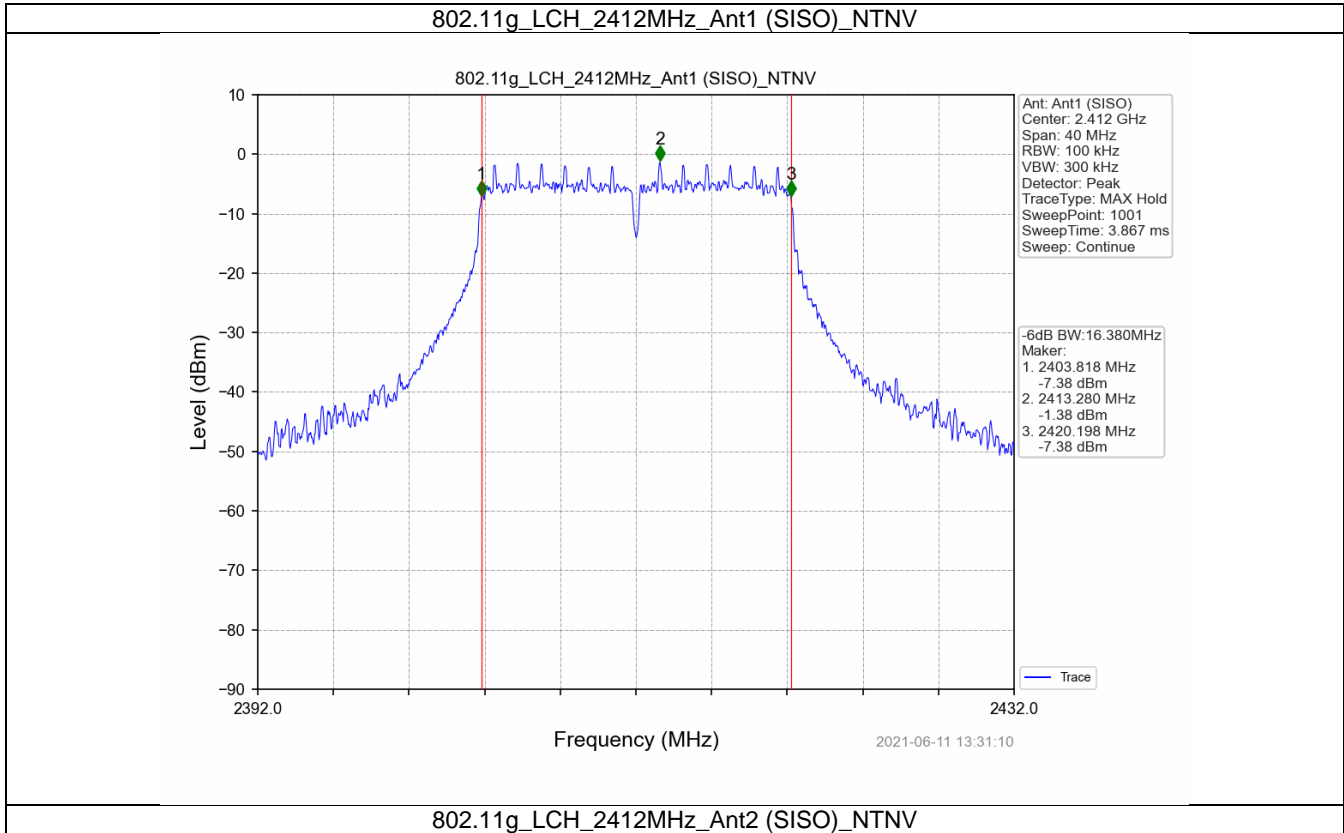


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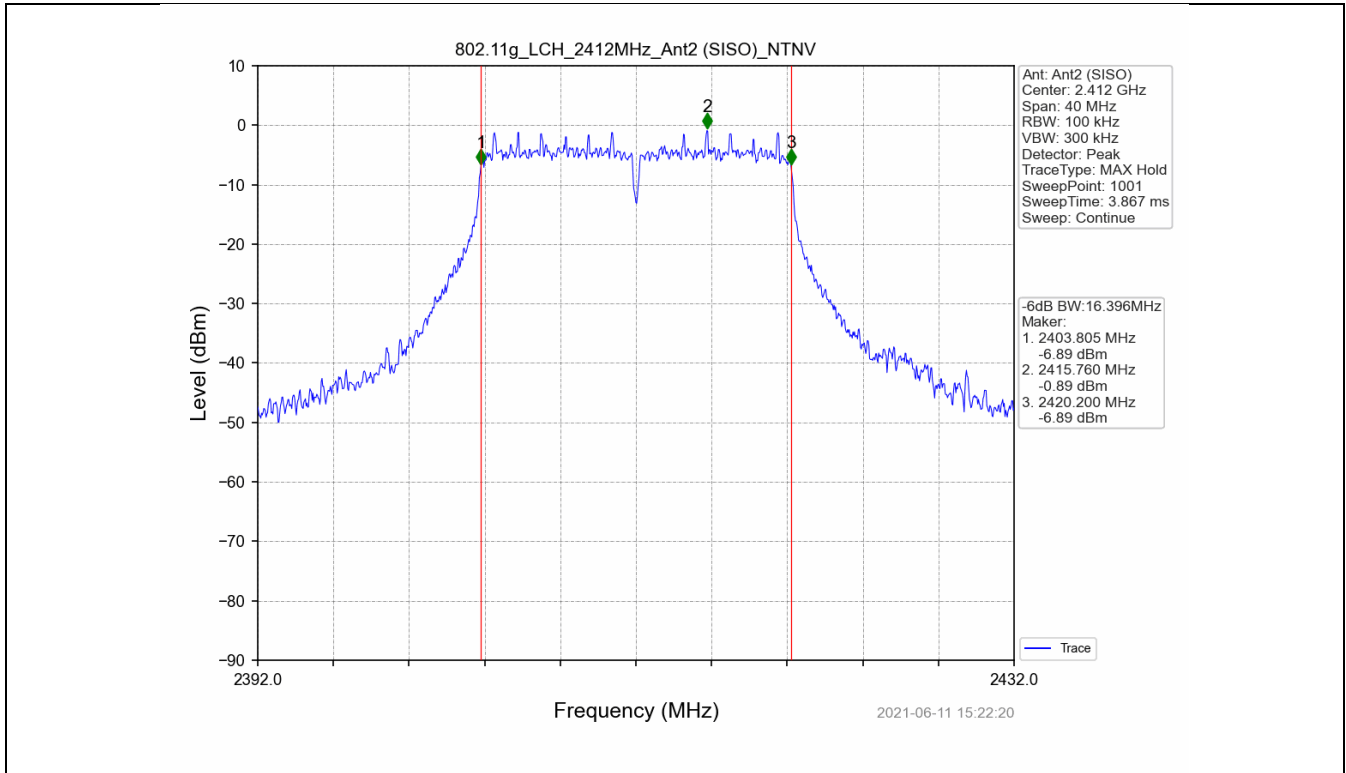
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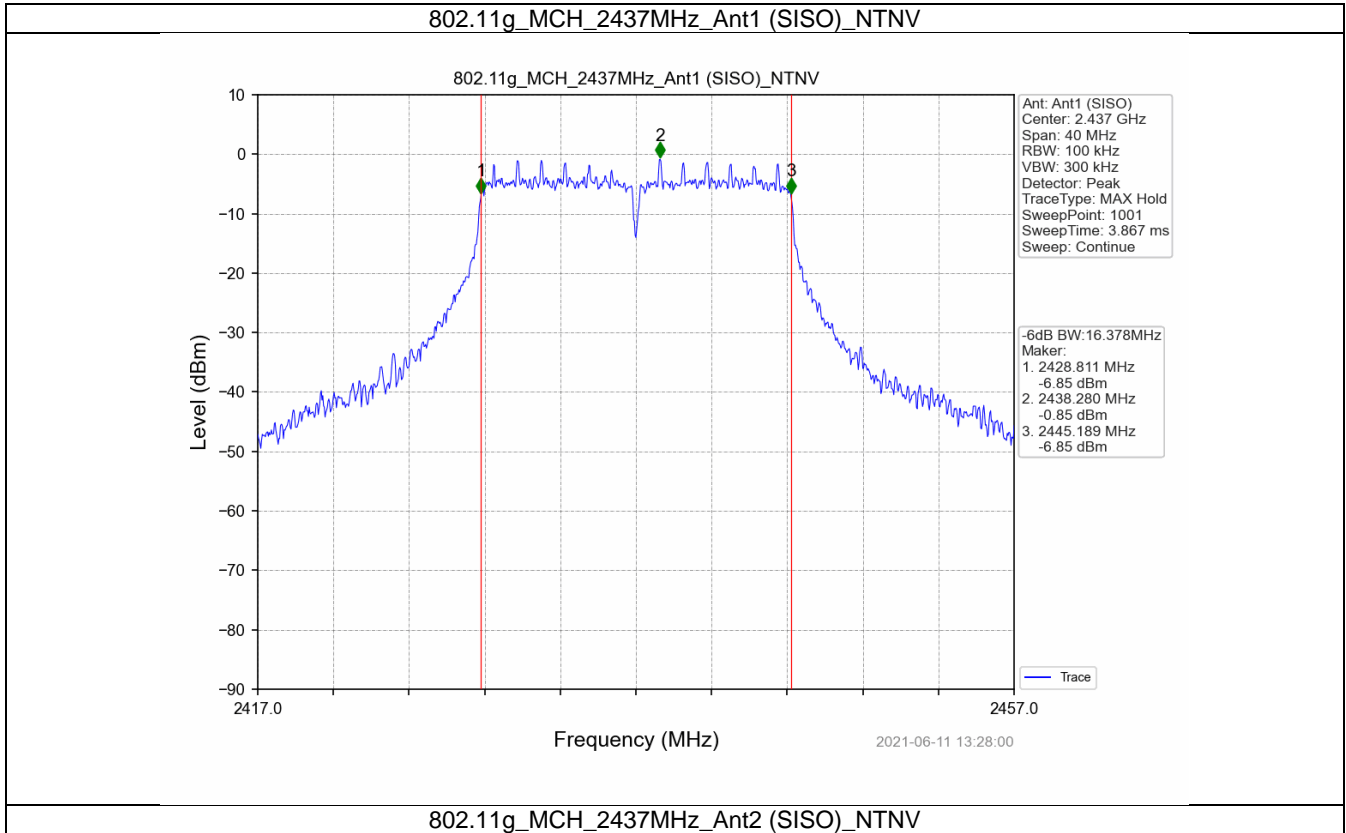


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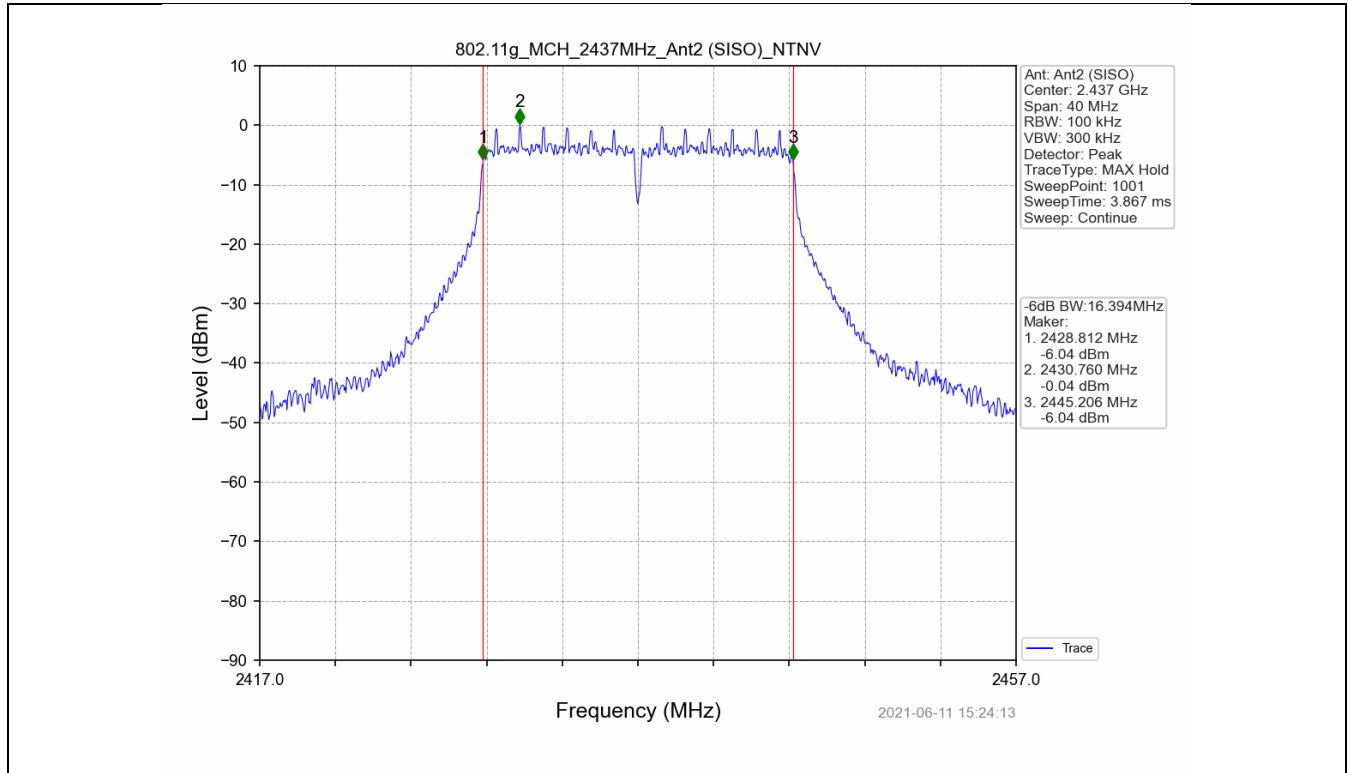
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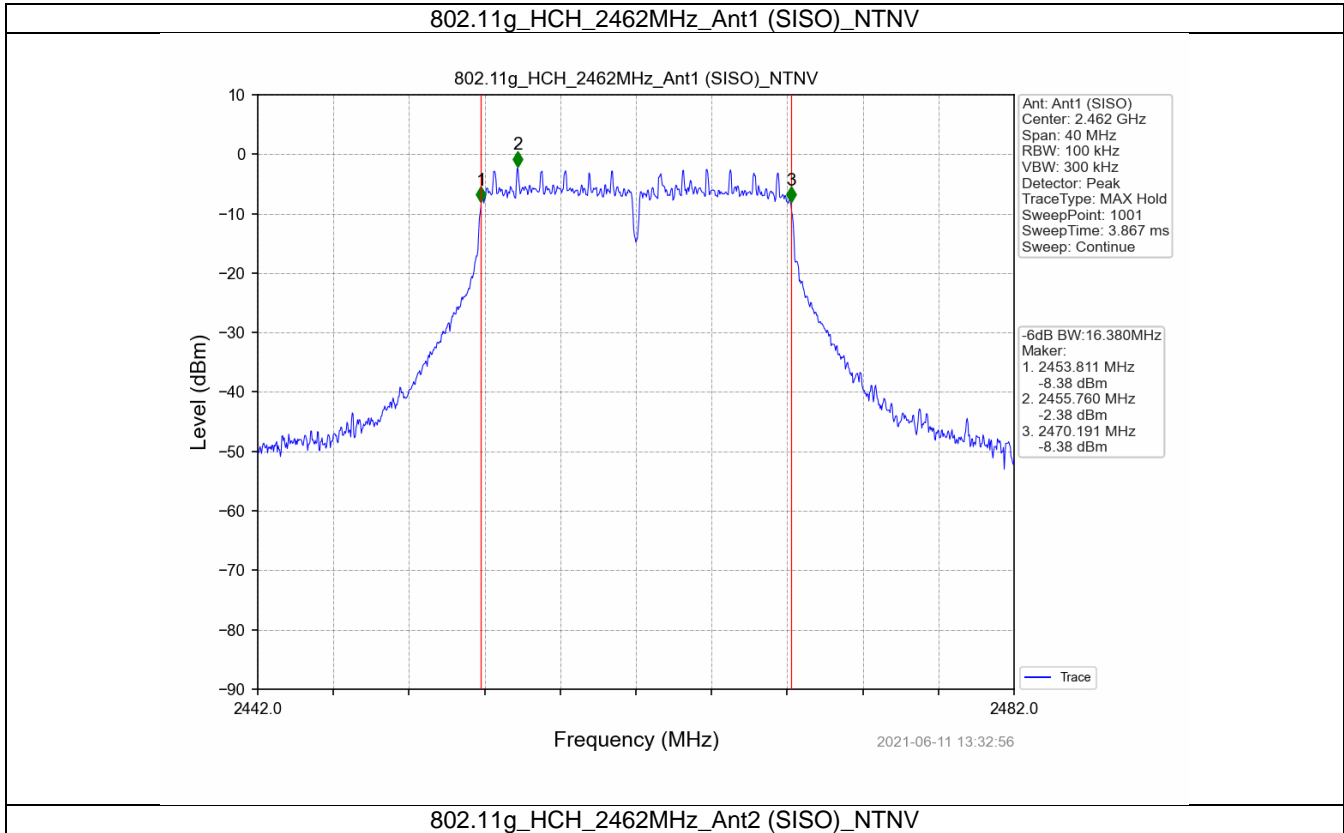


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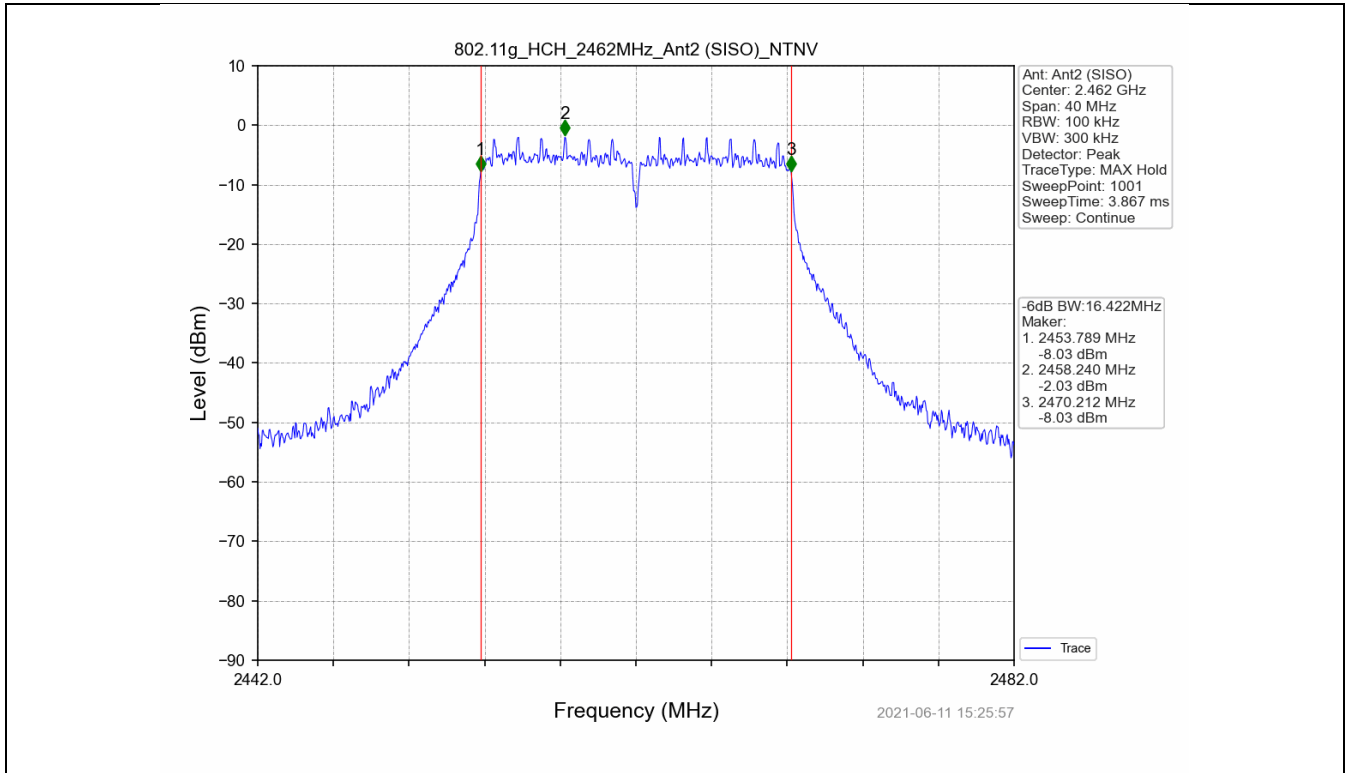


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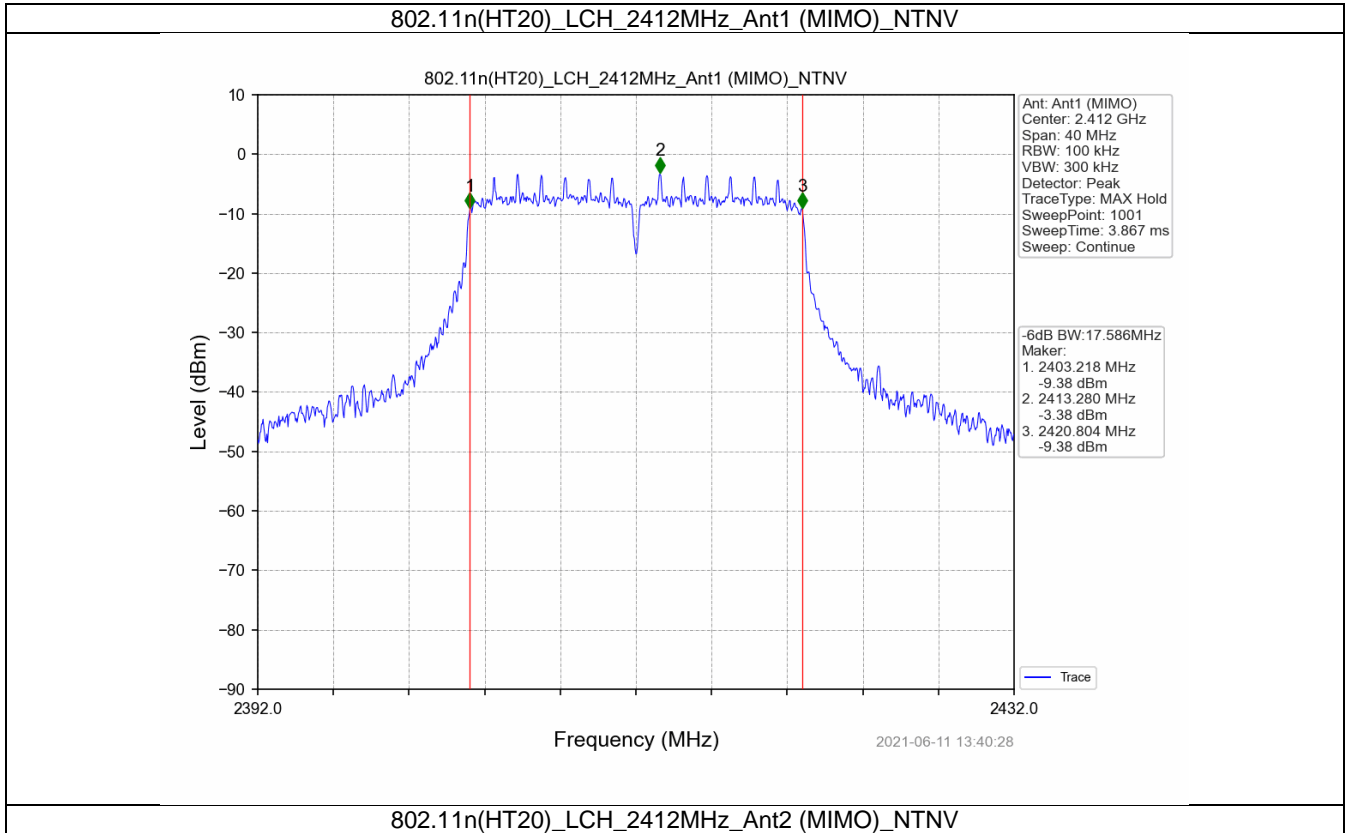


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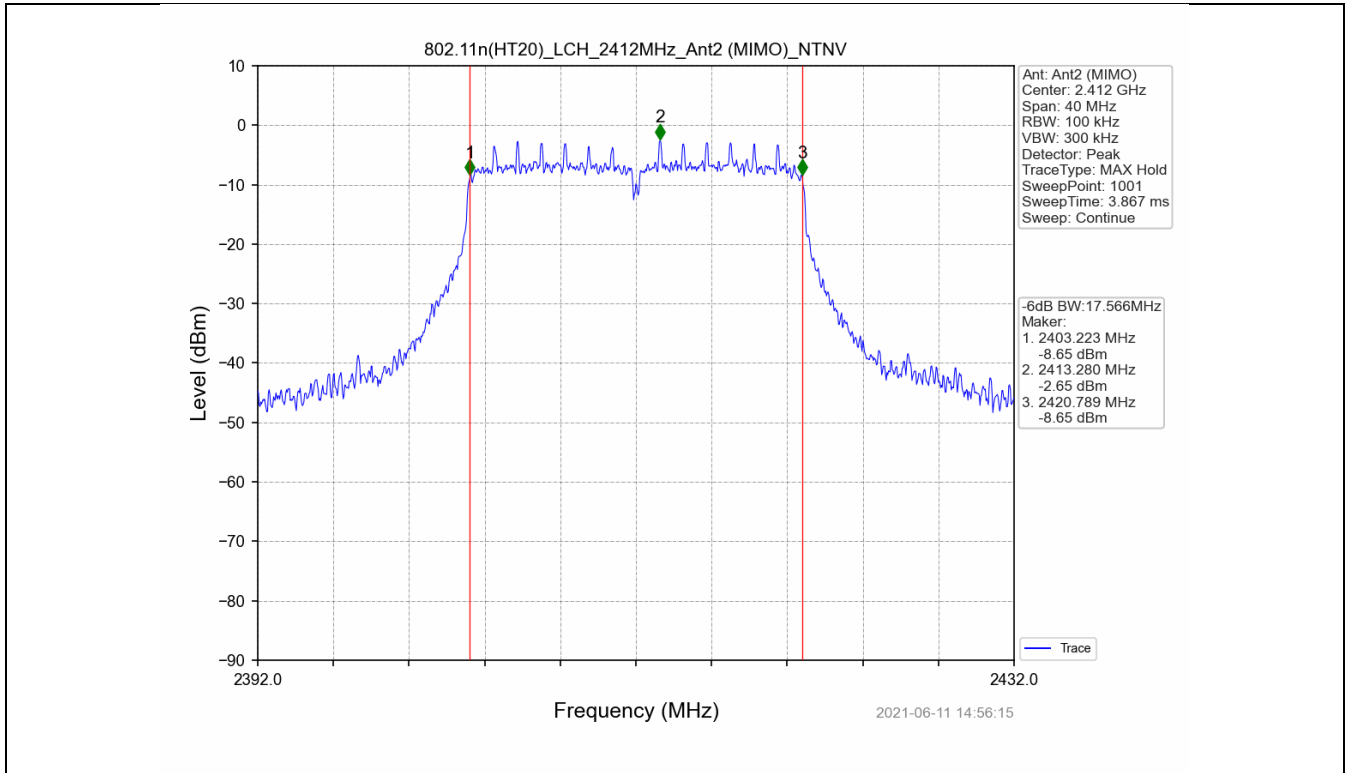


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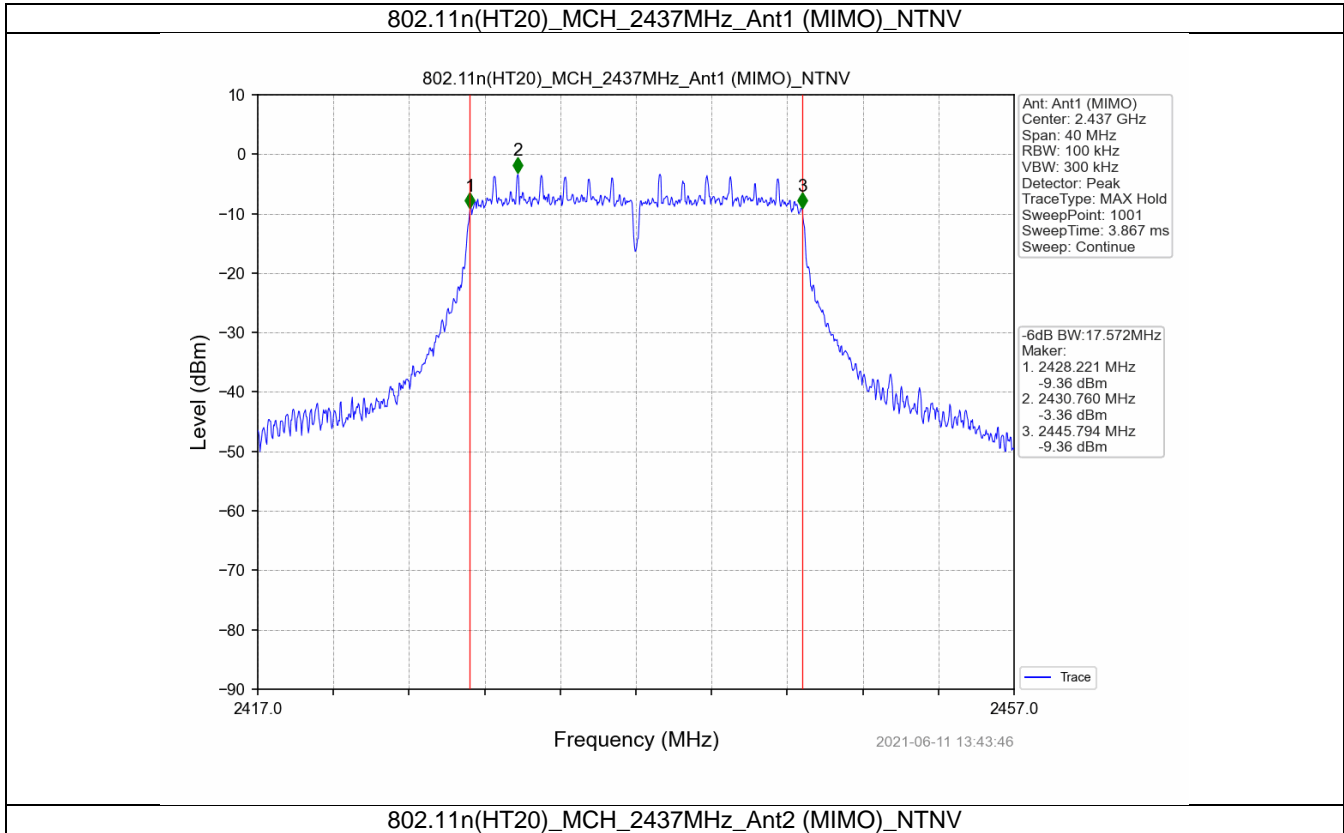


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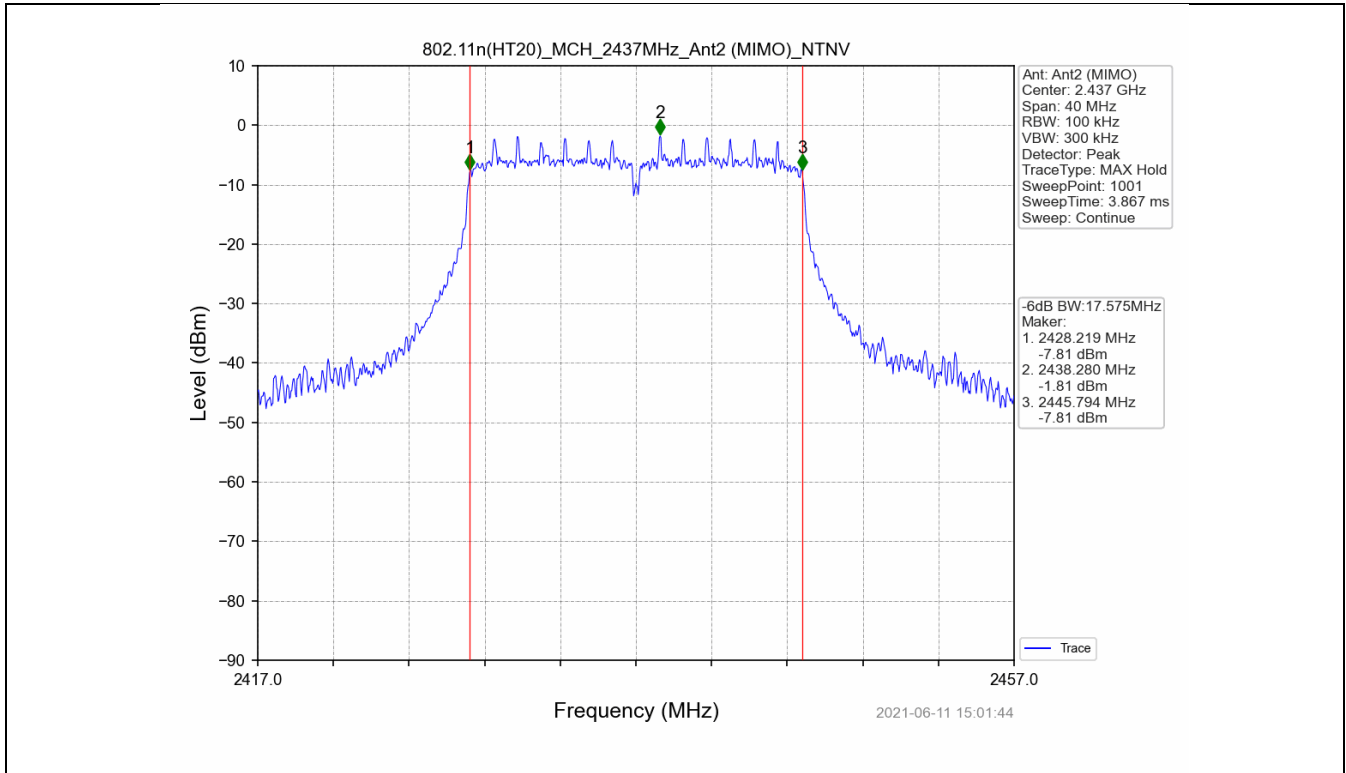


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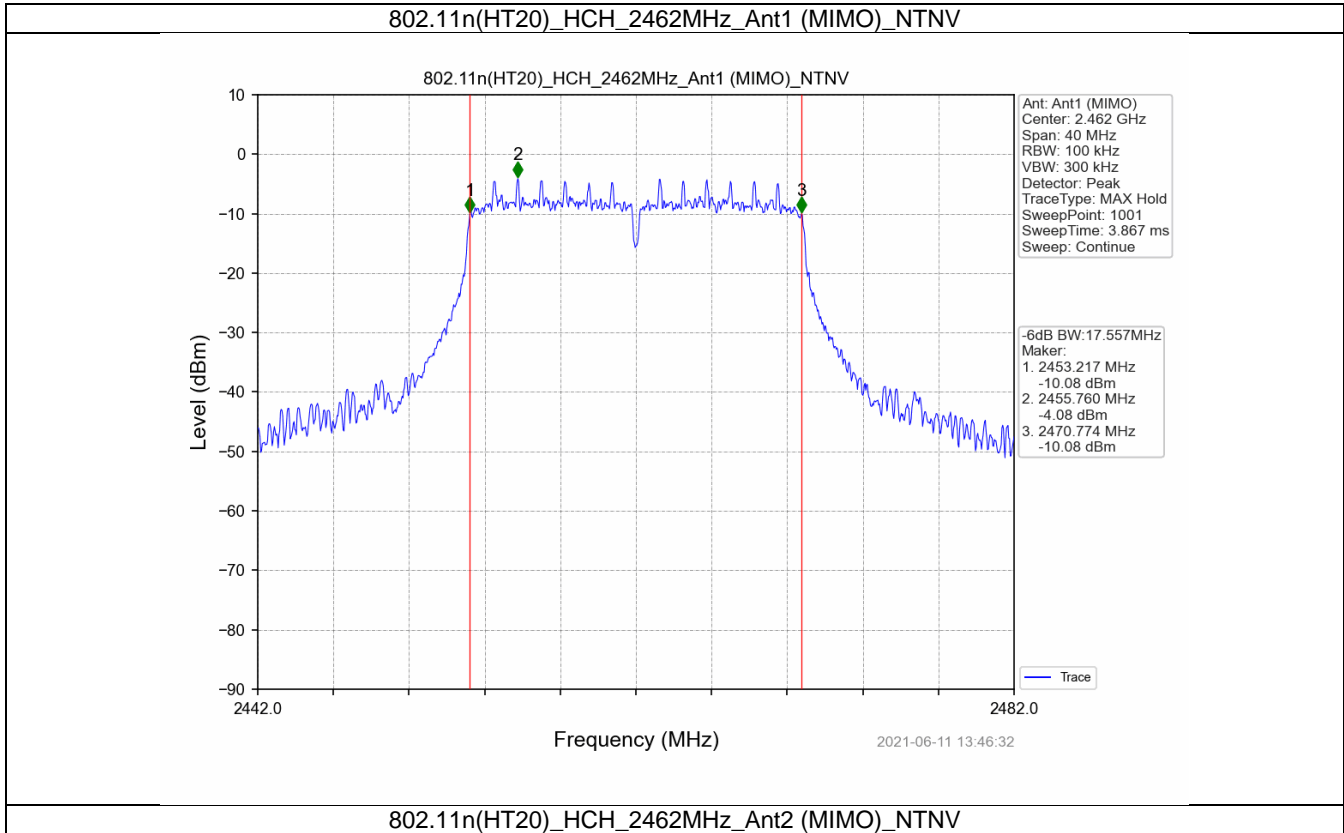


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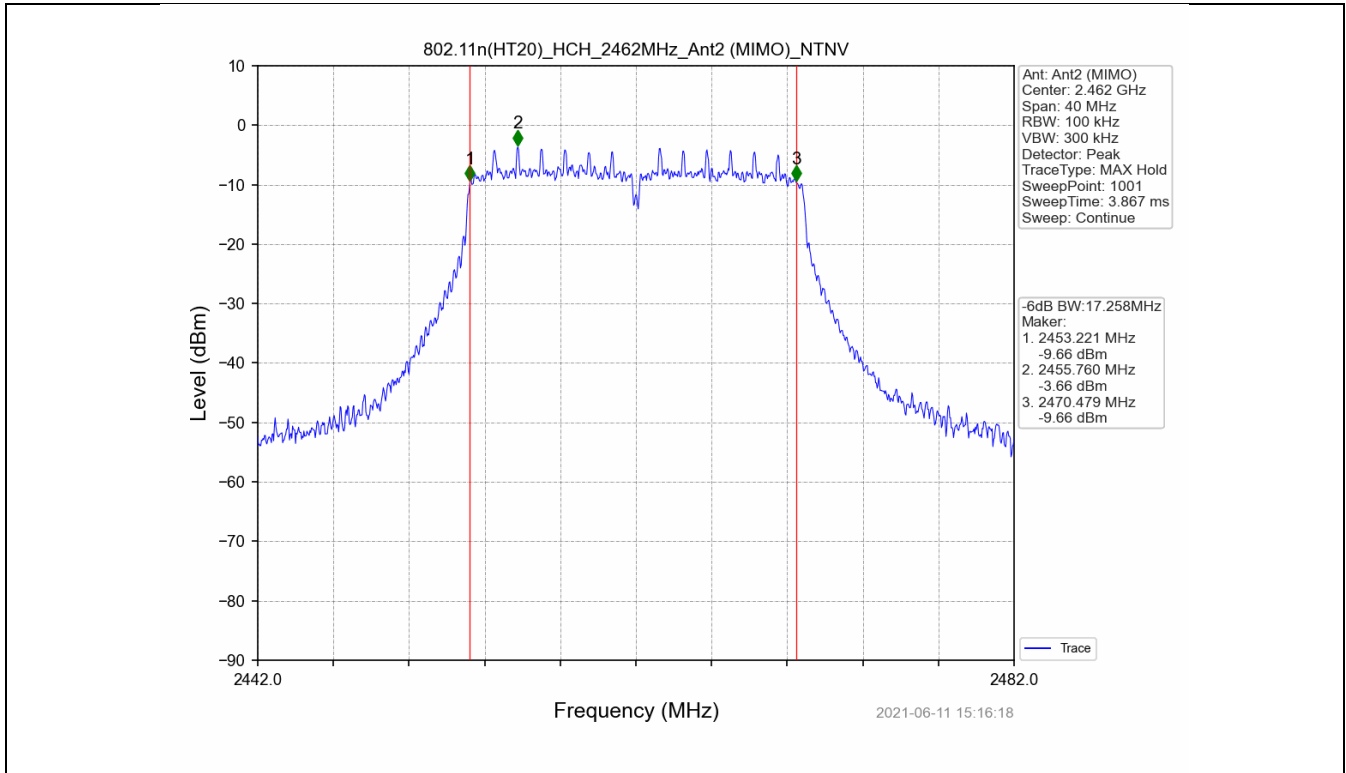
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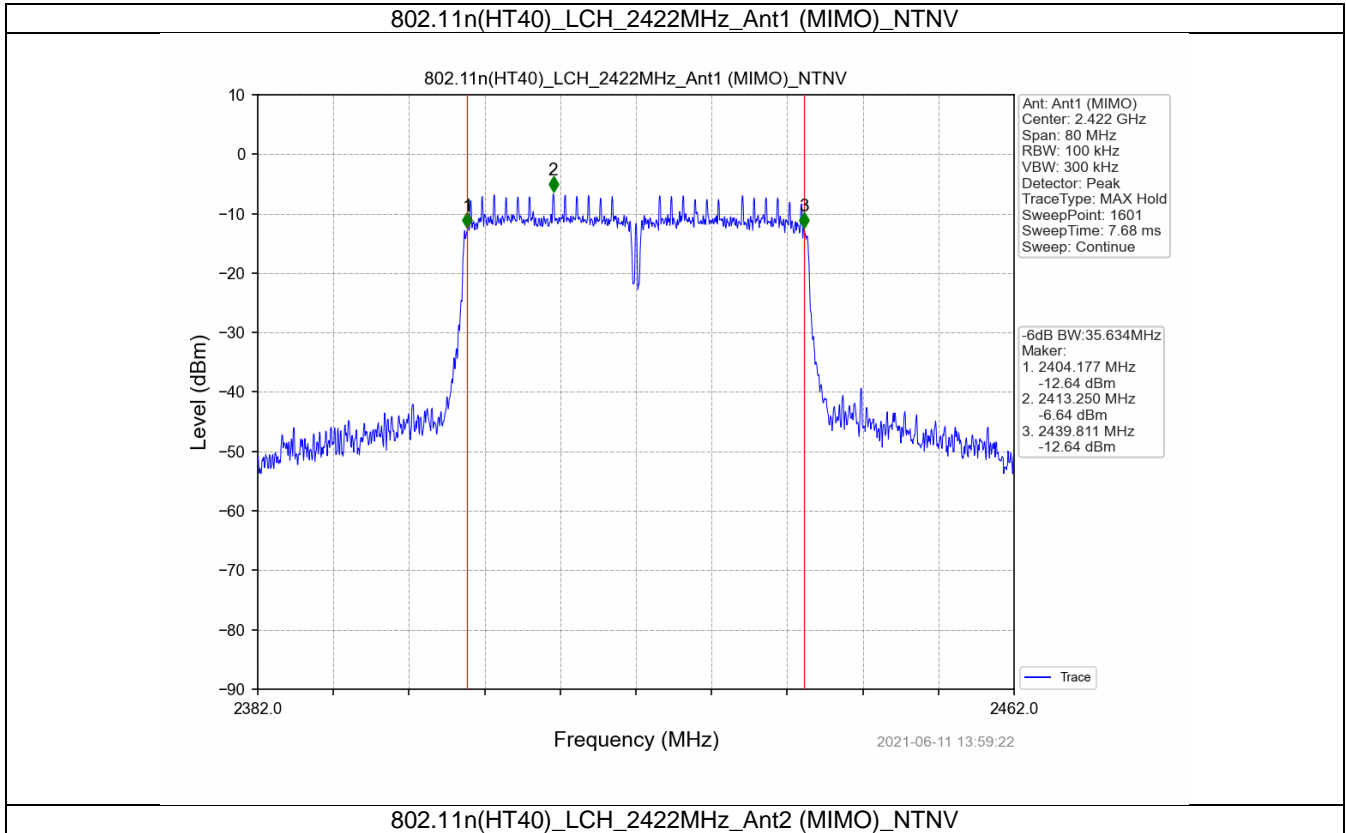


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802.11n(HT40)\_LCH\_2422MHz\_Ant2 (MIMO)\_NTNV

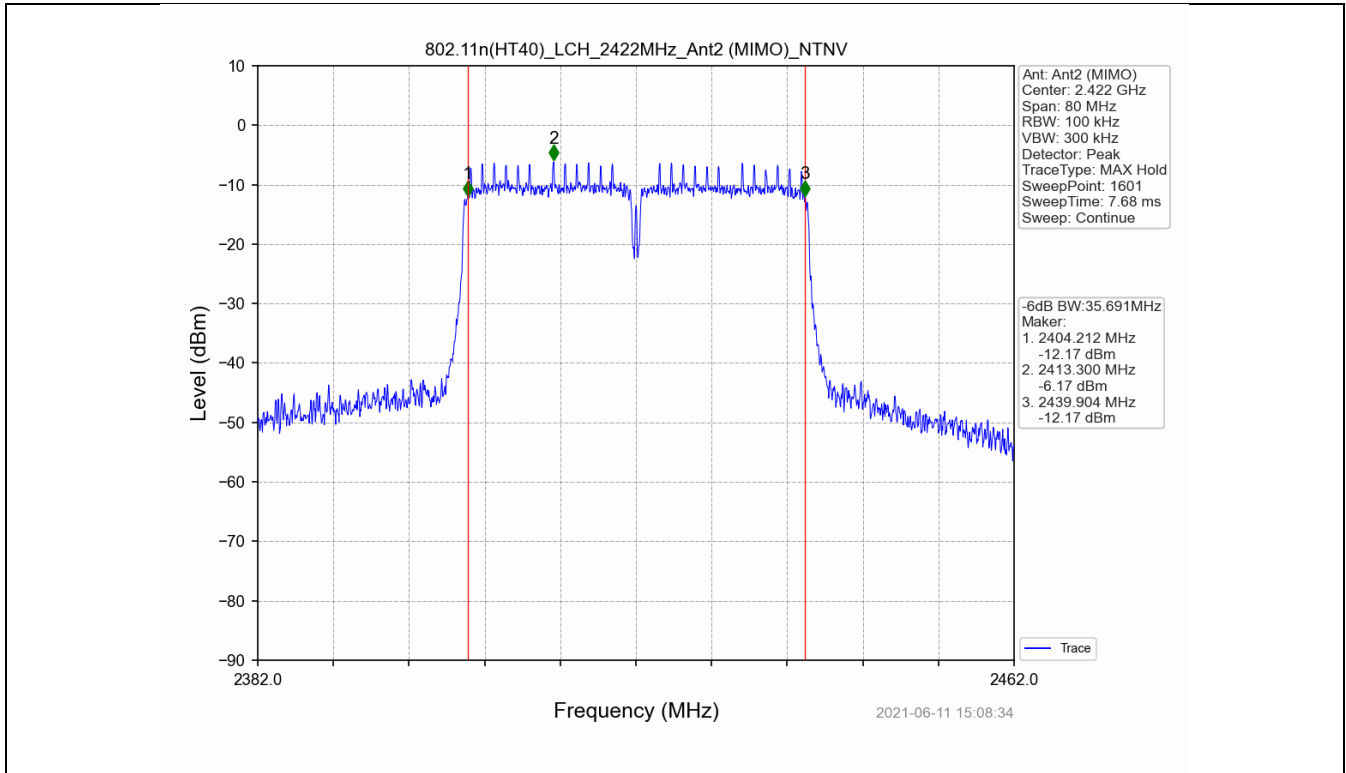


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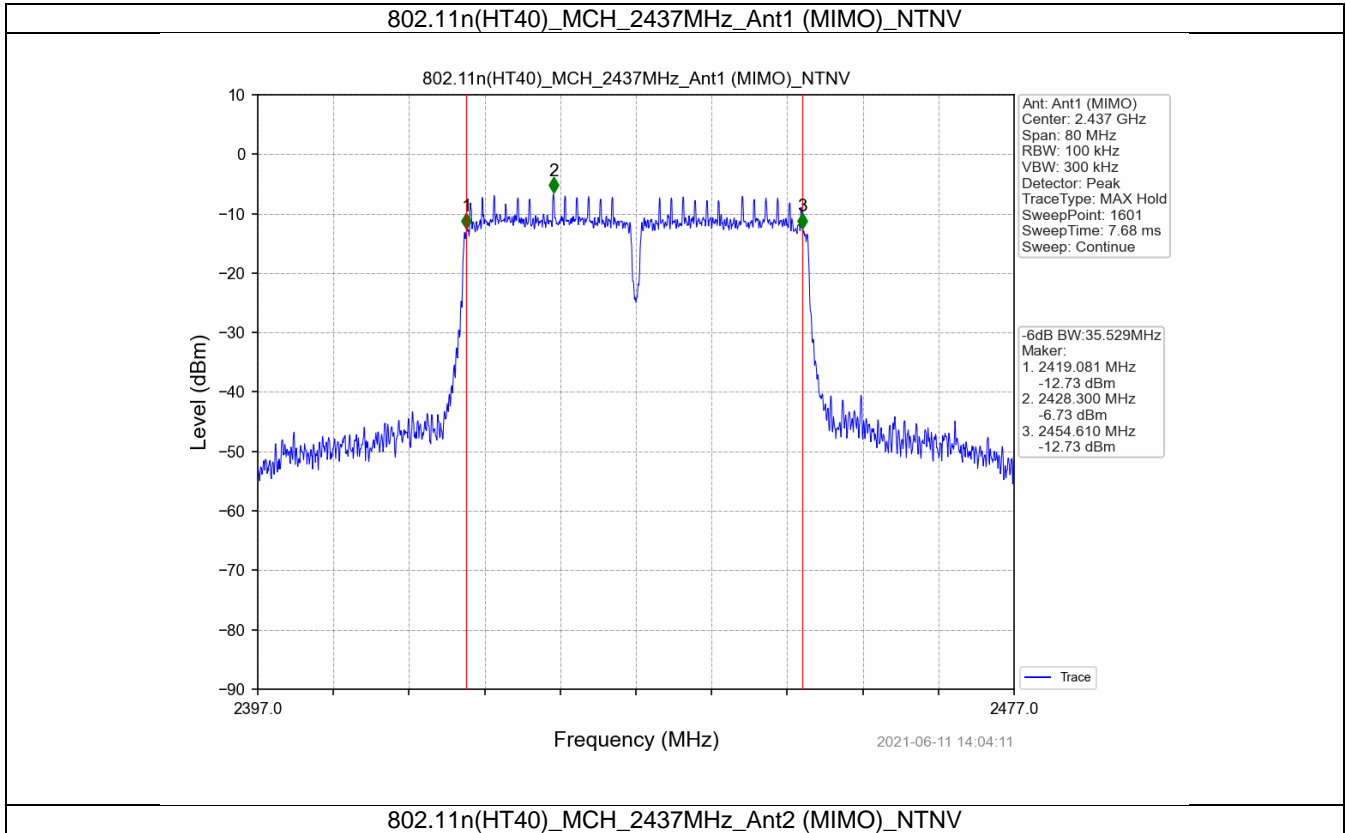


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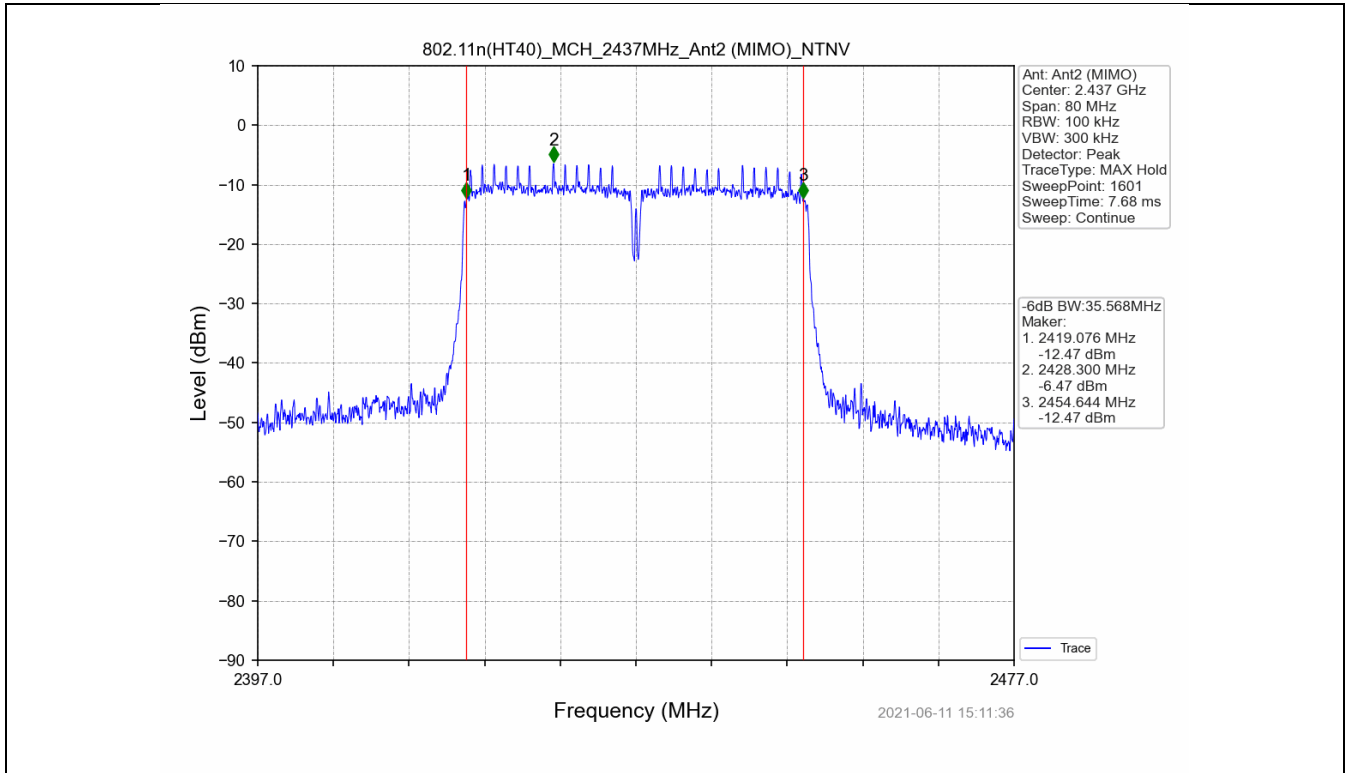
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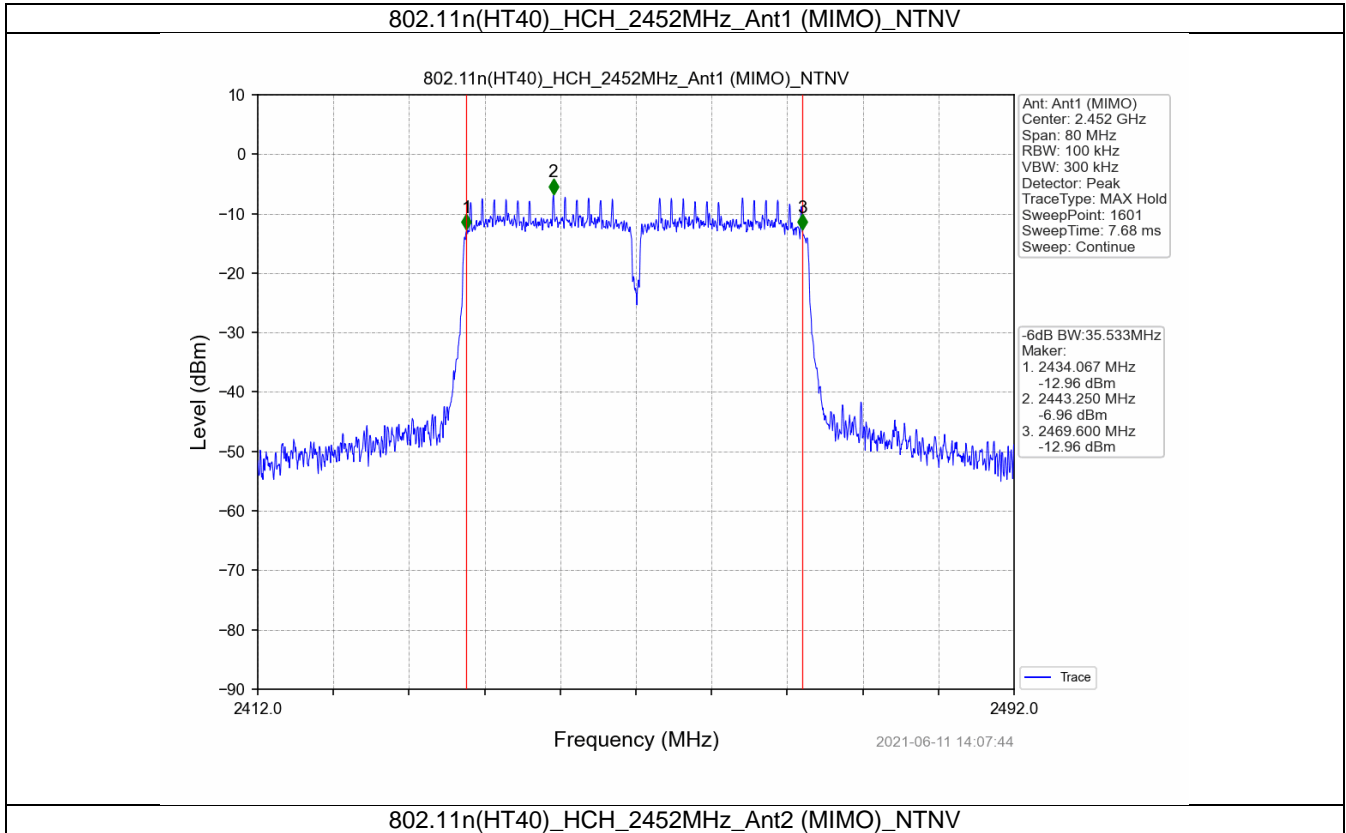


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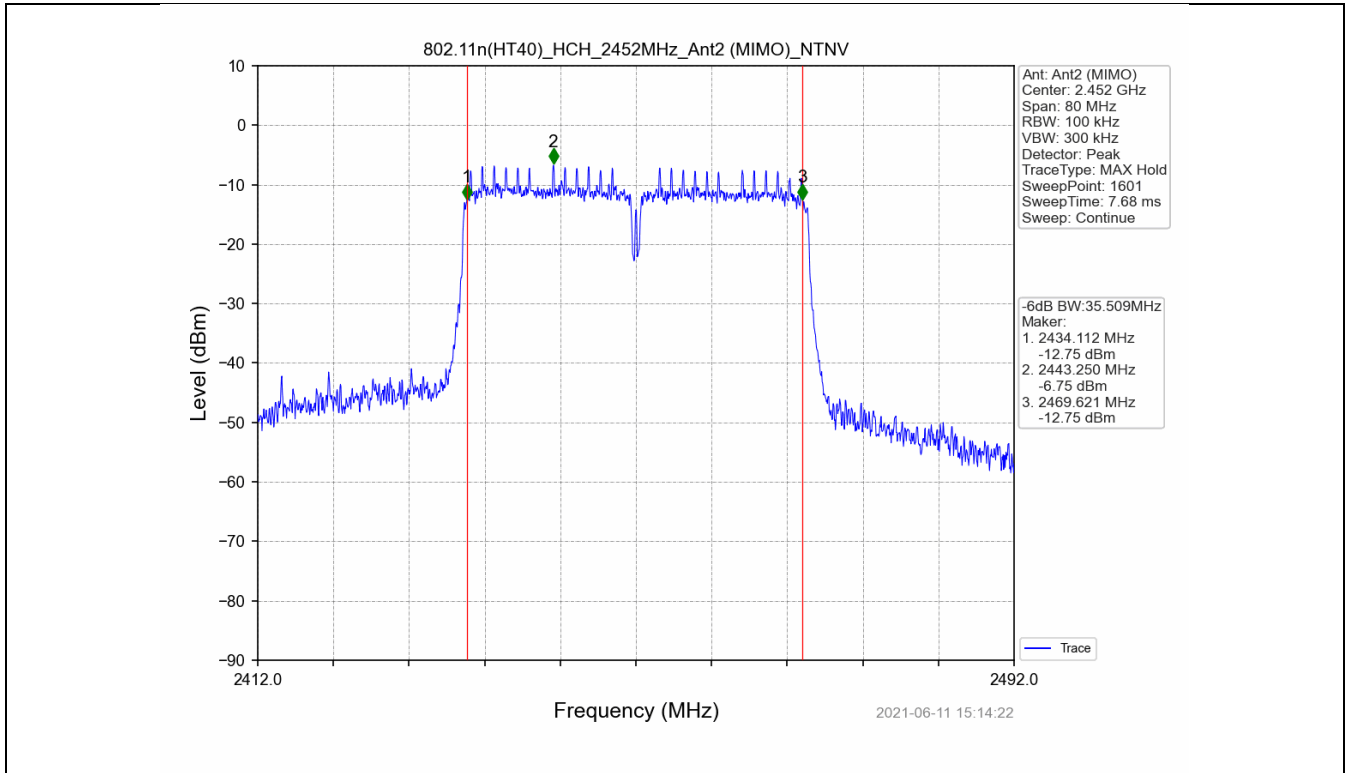


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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Measured Peak Output Power (dBm)			Limit (dBm)	Verdict
					Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	18.03	18.66	/	<=30	Pass
		2437	/	/	18.22	18.29	/	<=30	Pass
		2462	/	/	18.27	18.14	/	<=30	Pass
802.11g	SISO	2412	/	/	17.36	18.13	/	<=30	Pass
		2437	/	/	17.86	18.65	/	<=30	Pass
		2462	/	/	16.58	17.16	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	15.37	16.05	18.73	<=30	Pass
		2437	/	/	15.38	16.78	19.15	<=30	Pass
		2462	/	/	14.51	14.98	17.76	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	15.25	15.79	18.54	<=30	Pass
		2437	/	/	15.07	15.46	18.28	<=30	Pass
		2452	/	/	14.80	14.92	17.87	<=30	Pass

Note1: Antenna Gain: 1: 0.50dBi; 2: 0.50dBi;



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

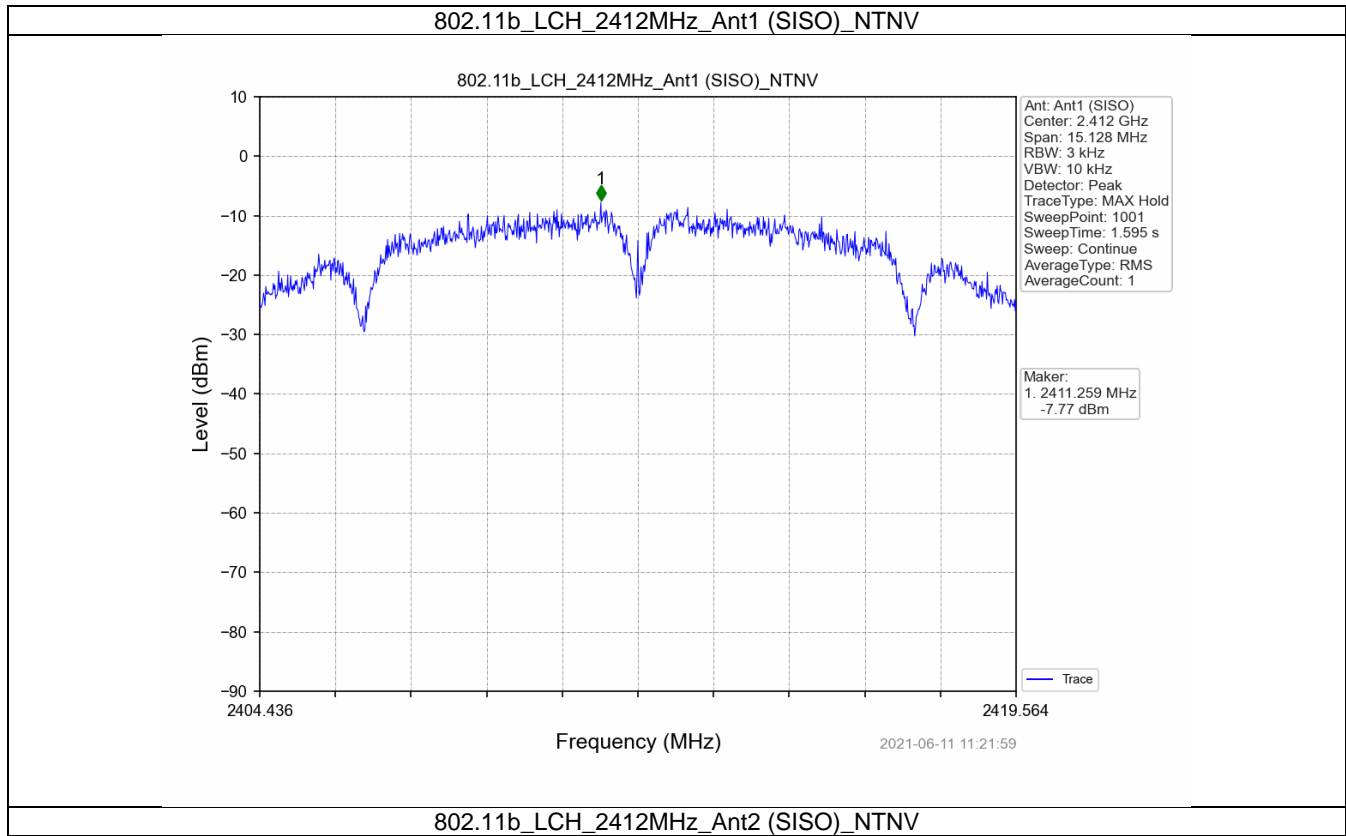
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)			Limit (dBm/3kHz)	Verdict
					Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	-7.77	-6.29	/	<=8	Pass
		2437	/	/	-8.02	-6.98	/	<=8	Pass
		2462	/	/	-7.98	-8.31	/	<=8	Pass
802.11g	SISO	2412	/	/	-15.77	-14.38	/	<=8	Pass
		2437	/	/	-14.64	-14.16	/	<=8	Pass
		2462	/	/	-16.80	-15.27	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-17.85	-15.14	-14.04	<=8	Pass
		2437	/	/	-17.72	-15.12	-14.99	<=8	Pass
		2462	/	/	-18.72	-16.96	-16.01	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-18.99	-15.94	-15.92	<=8	Pass
		2437	/	/	-21.73	-16.90	-16.89	<=8	Pass
		2452	/	/	-22.04	-16.77	-16.75	<=8	Pass

Note1: Antenna Gain: 1: 0.50dBi; 2: 0.50dBi;



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### 4.1.2 Test Graph

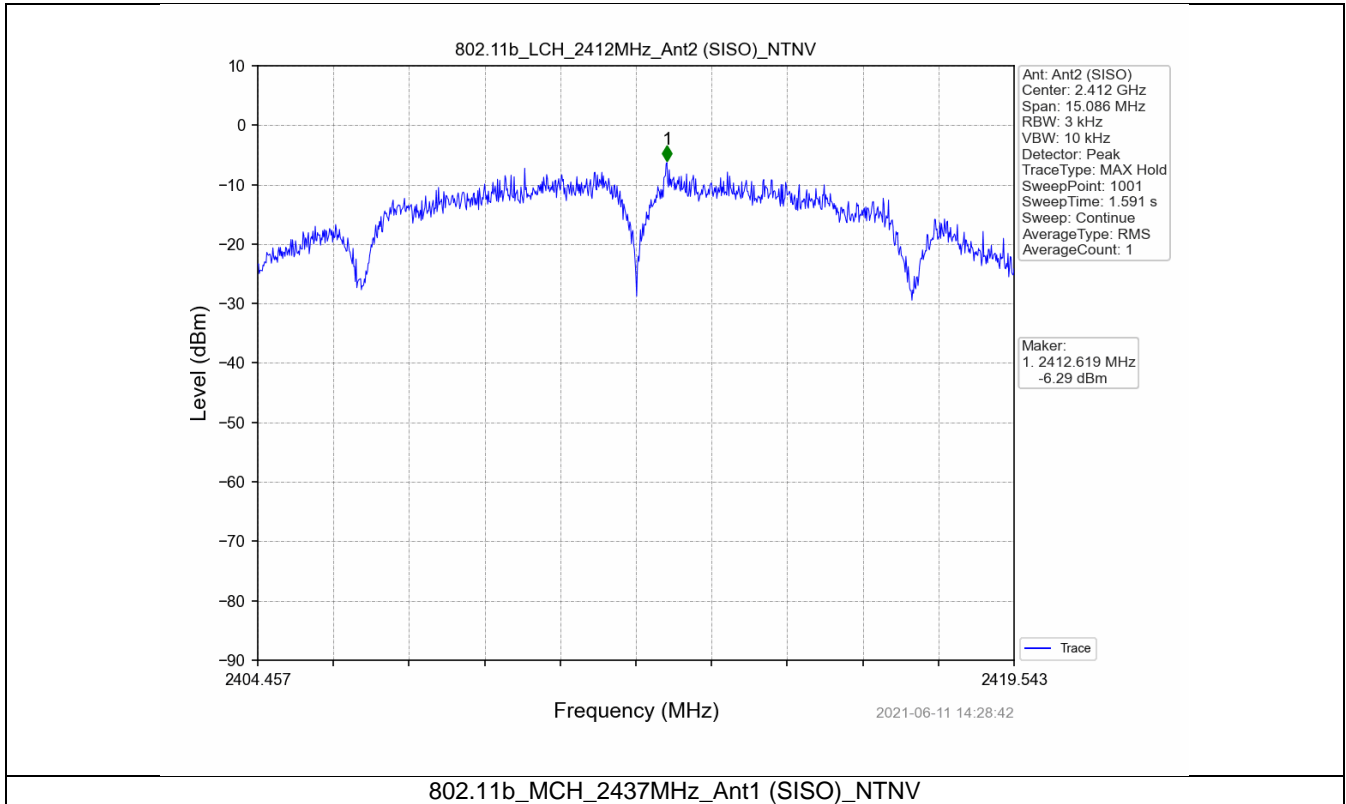


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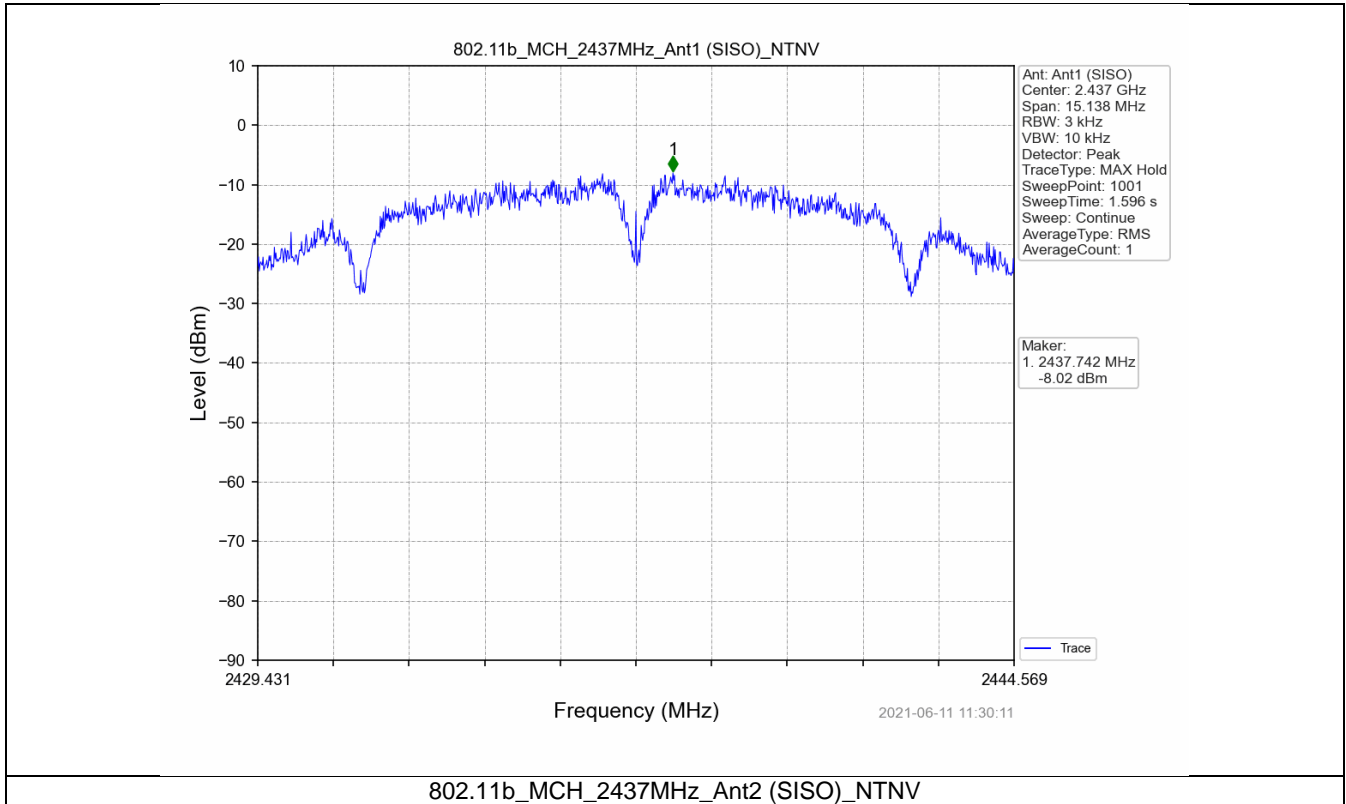


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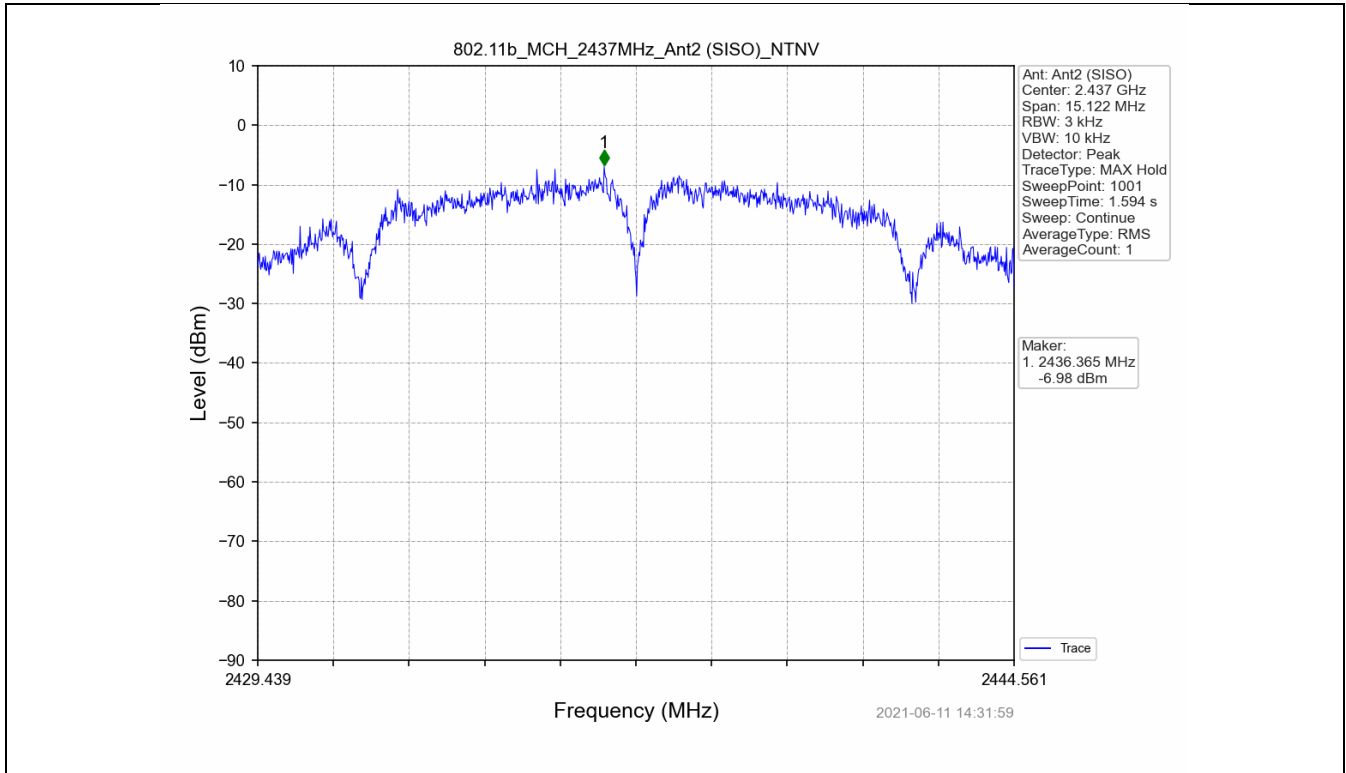
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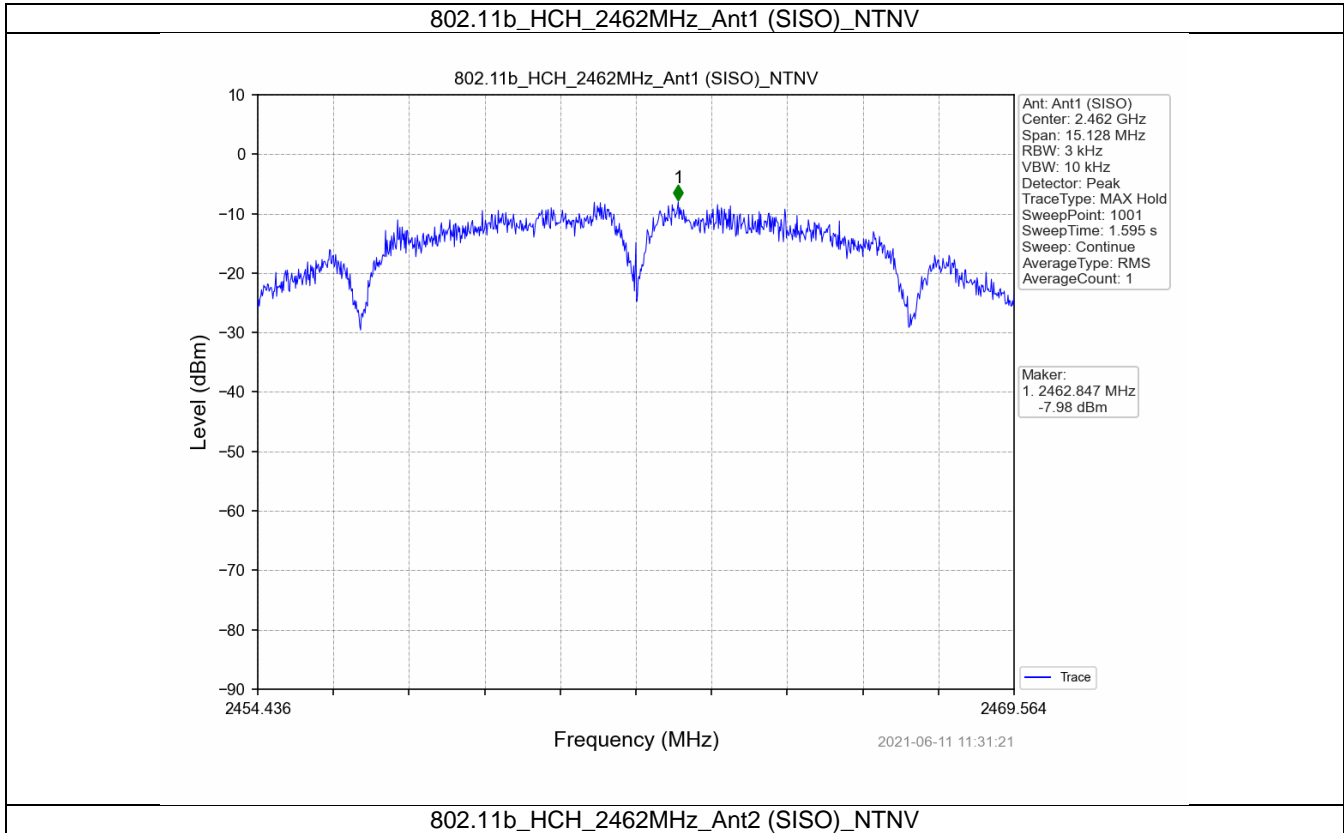


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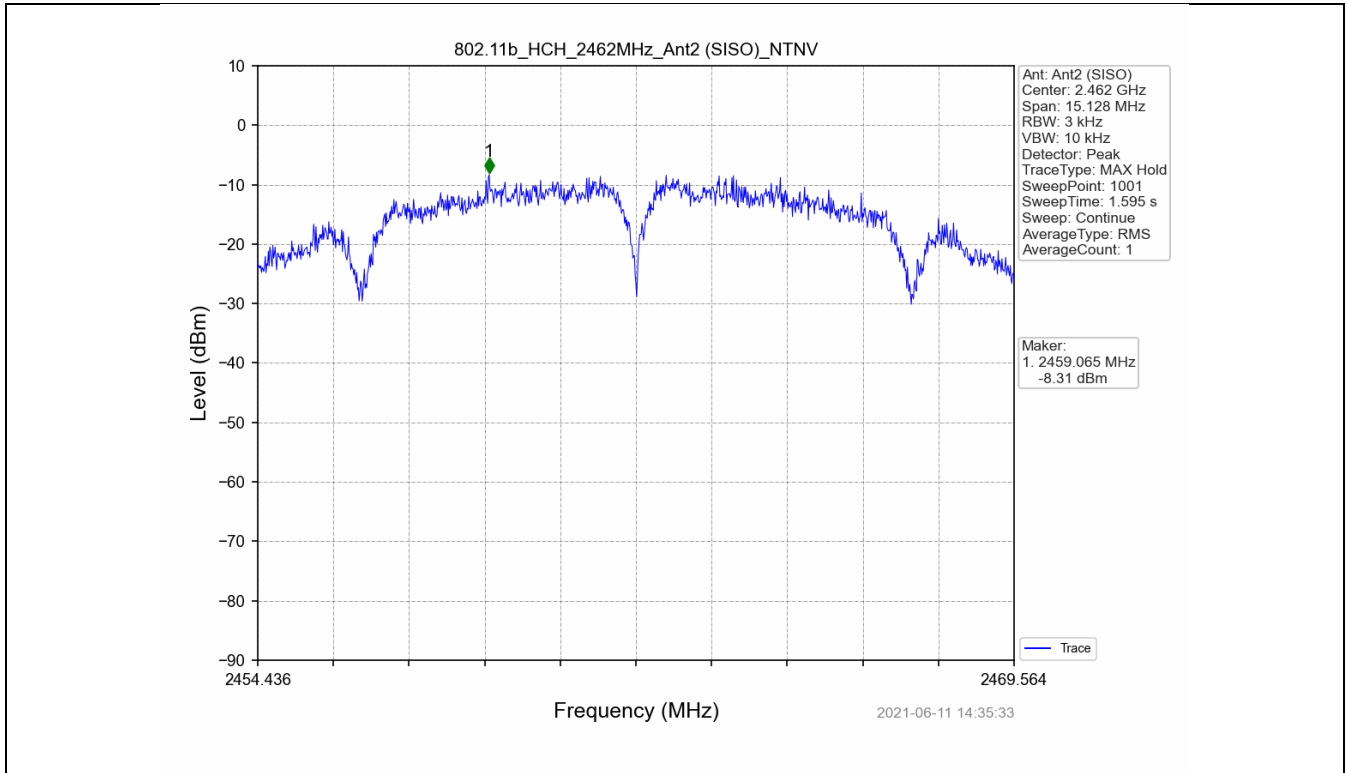


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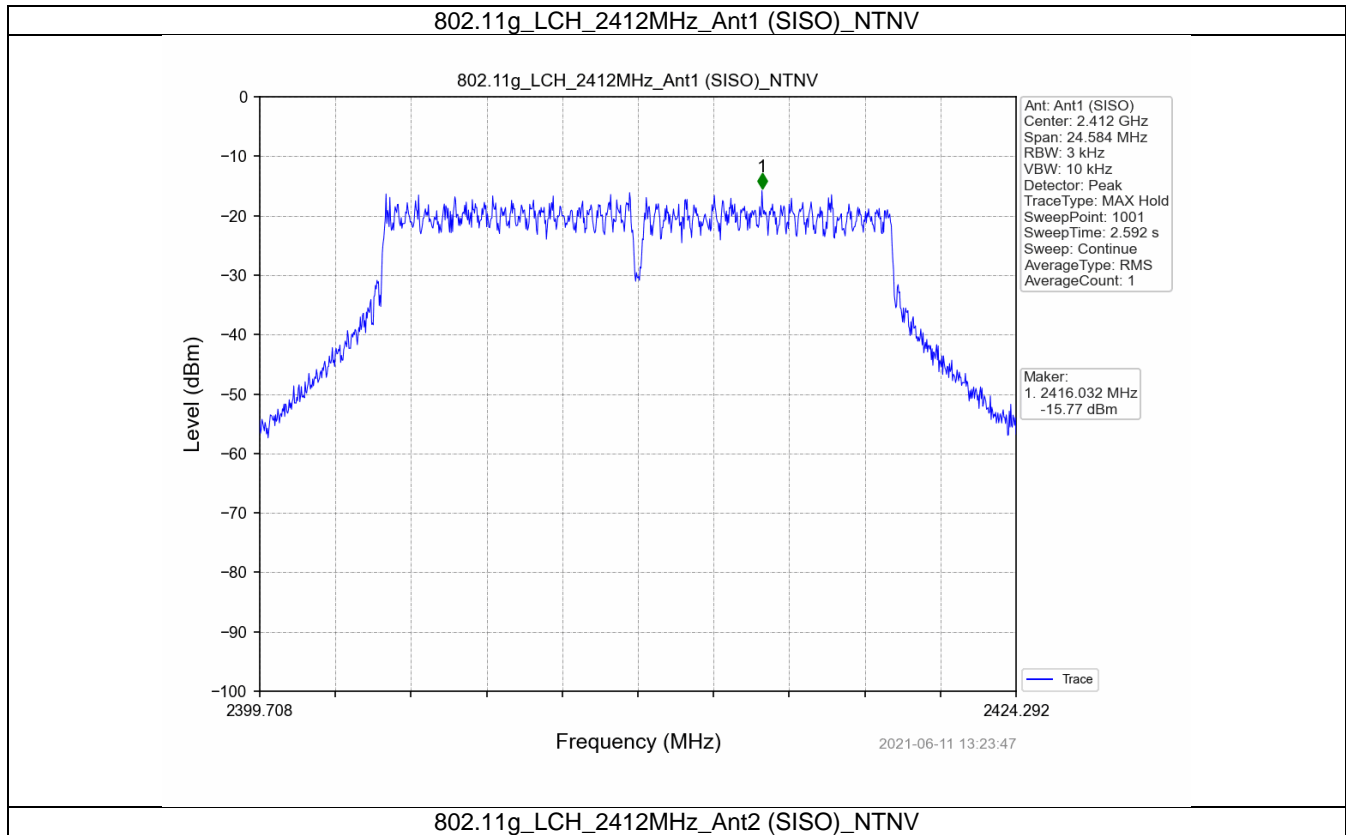


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802.11g\_LCH\_2412MHz\_Ant2 (SISO)\_NTNV



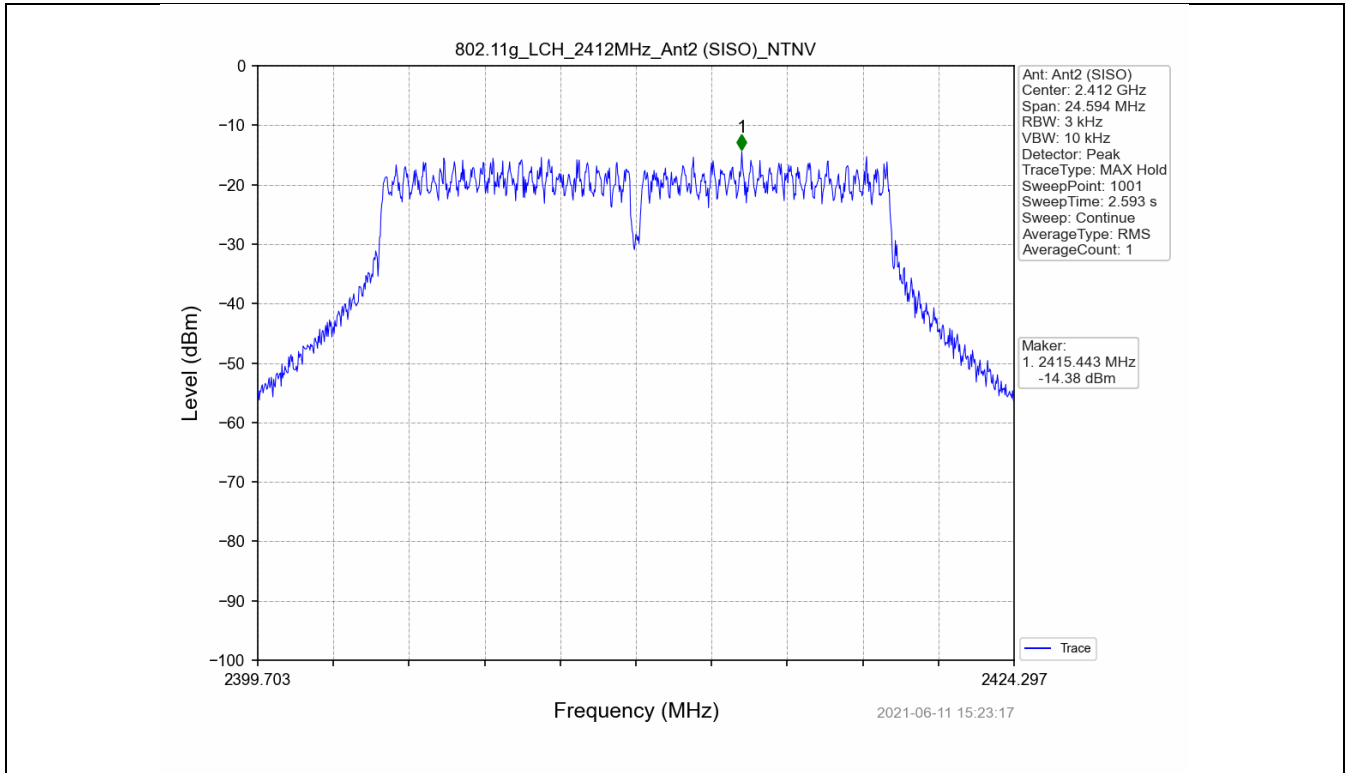
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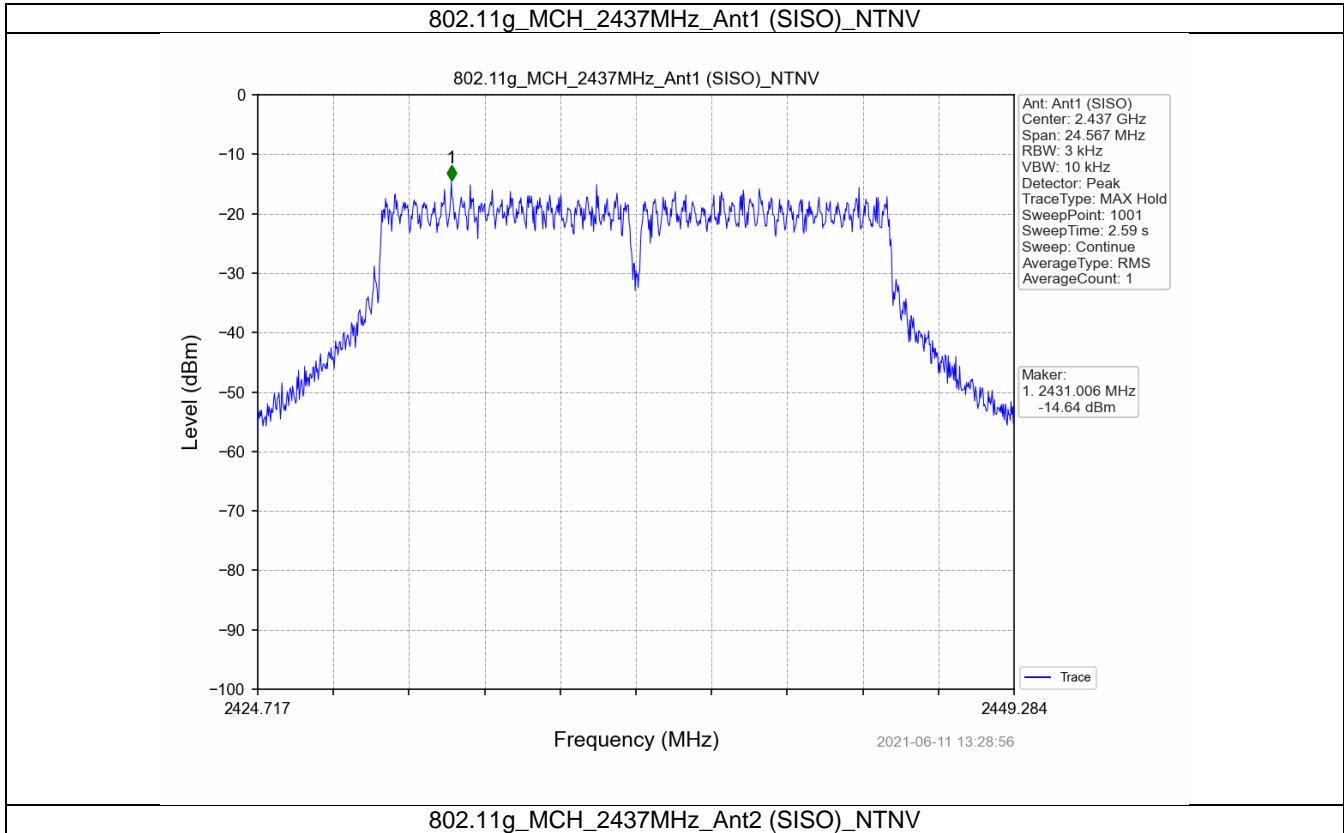


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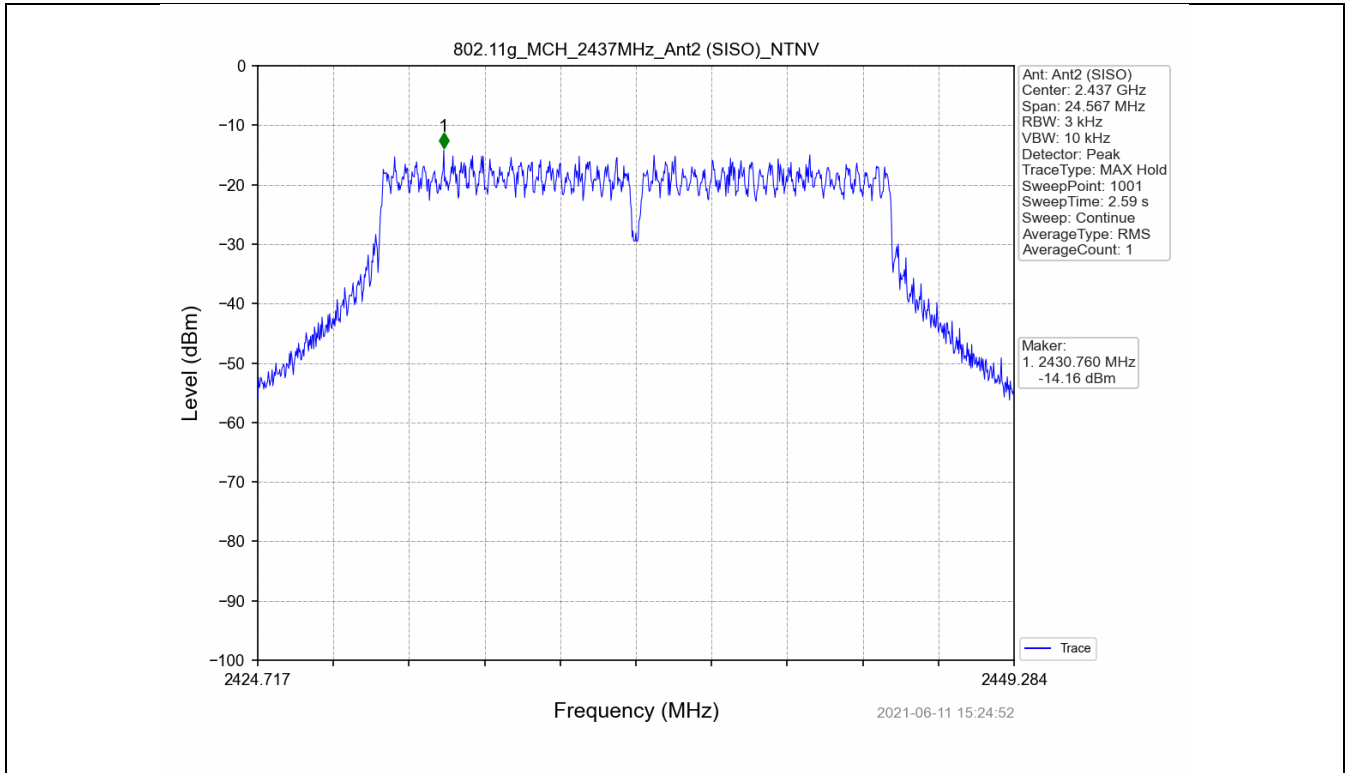


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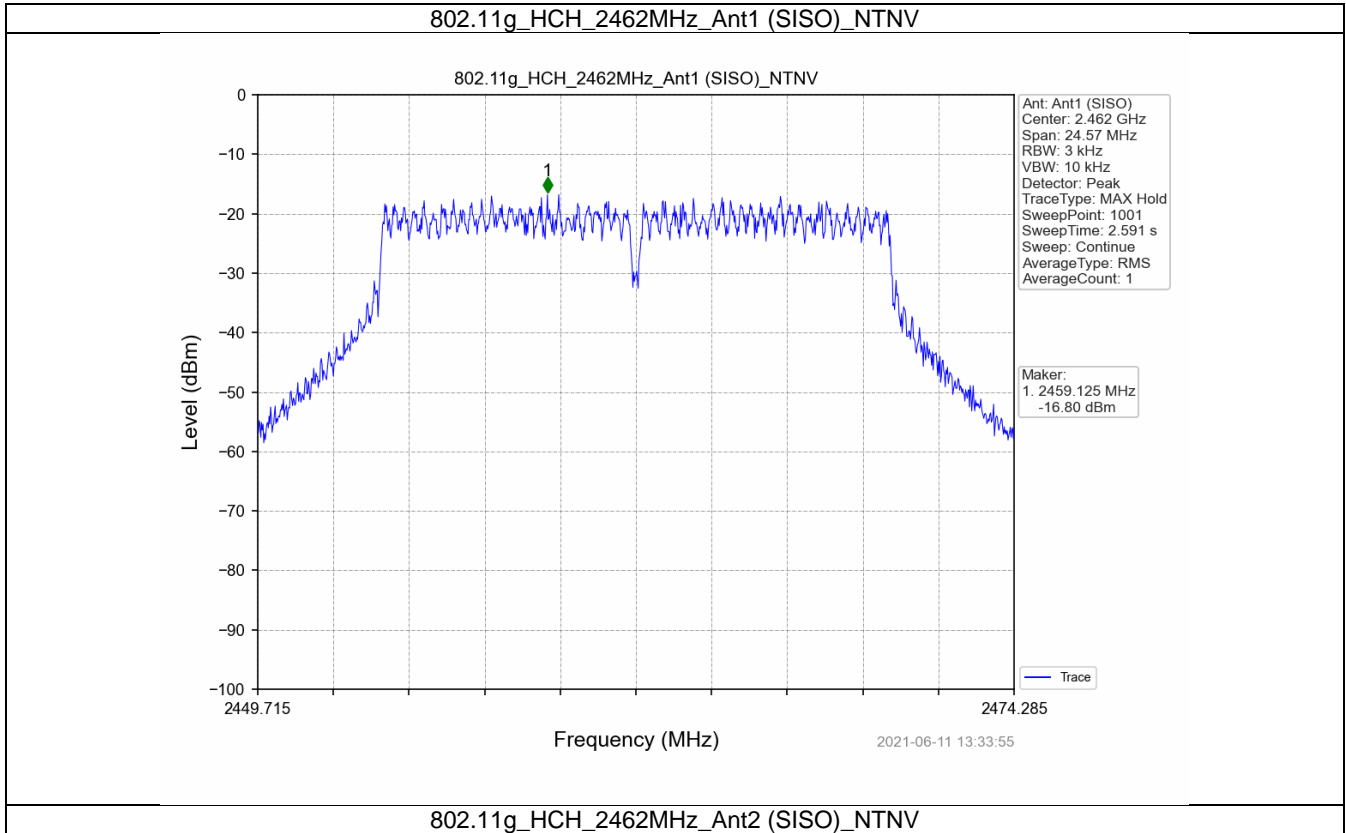


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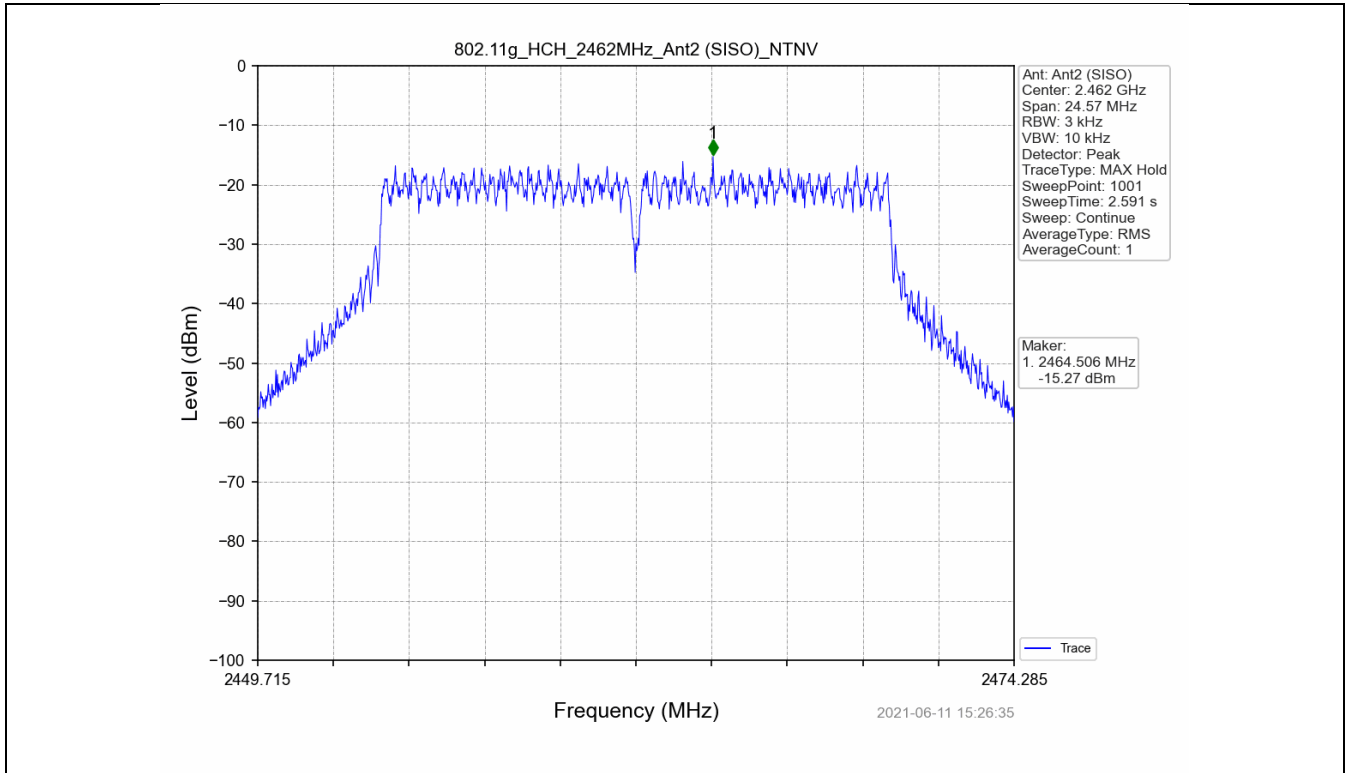


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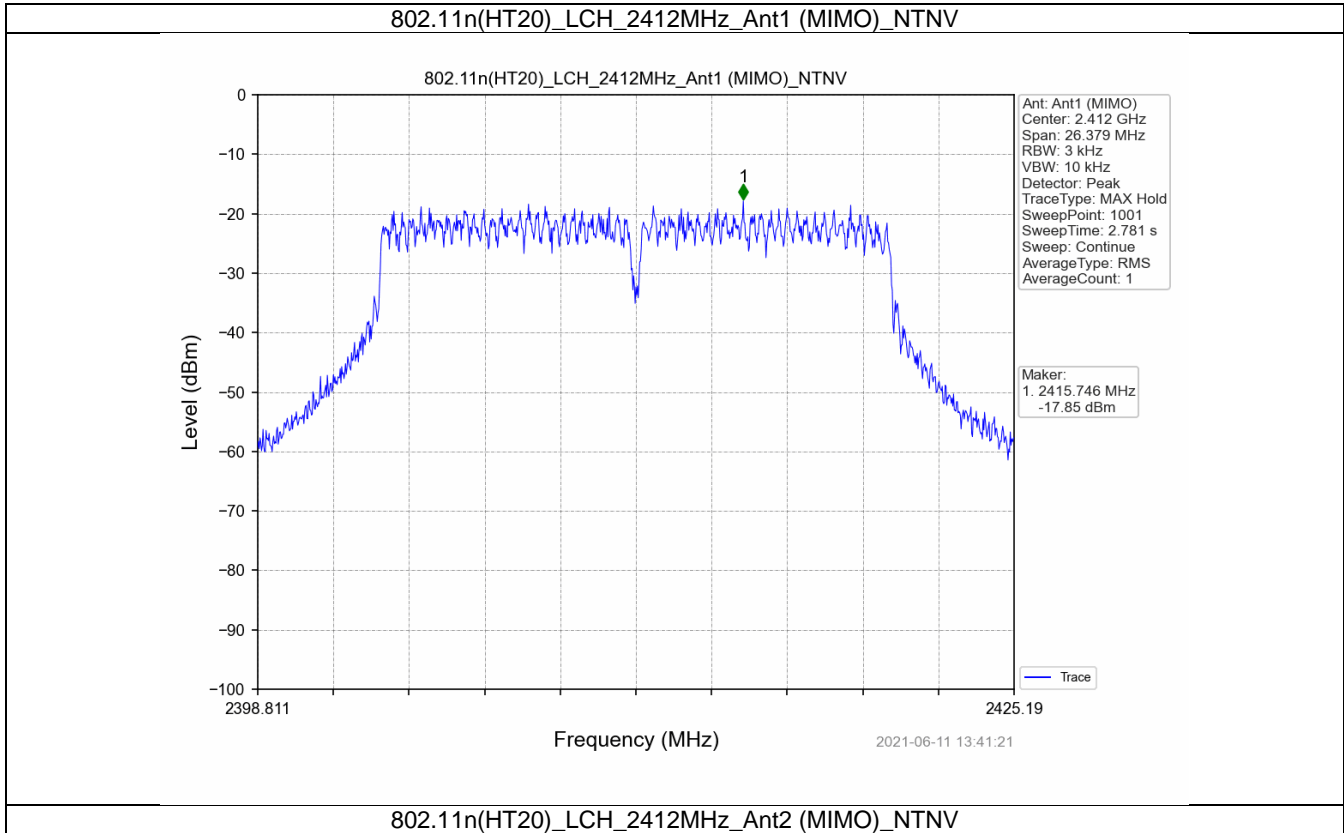
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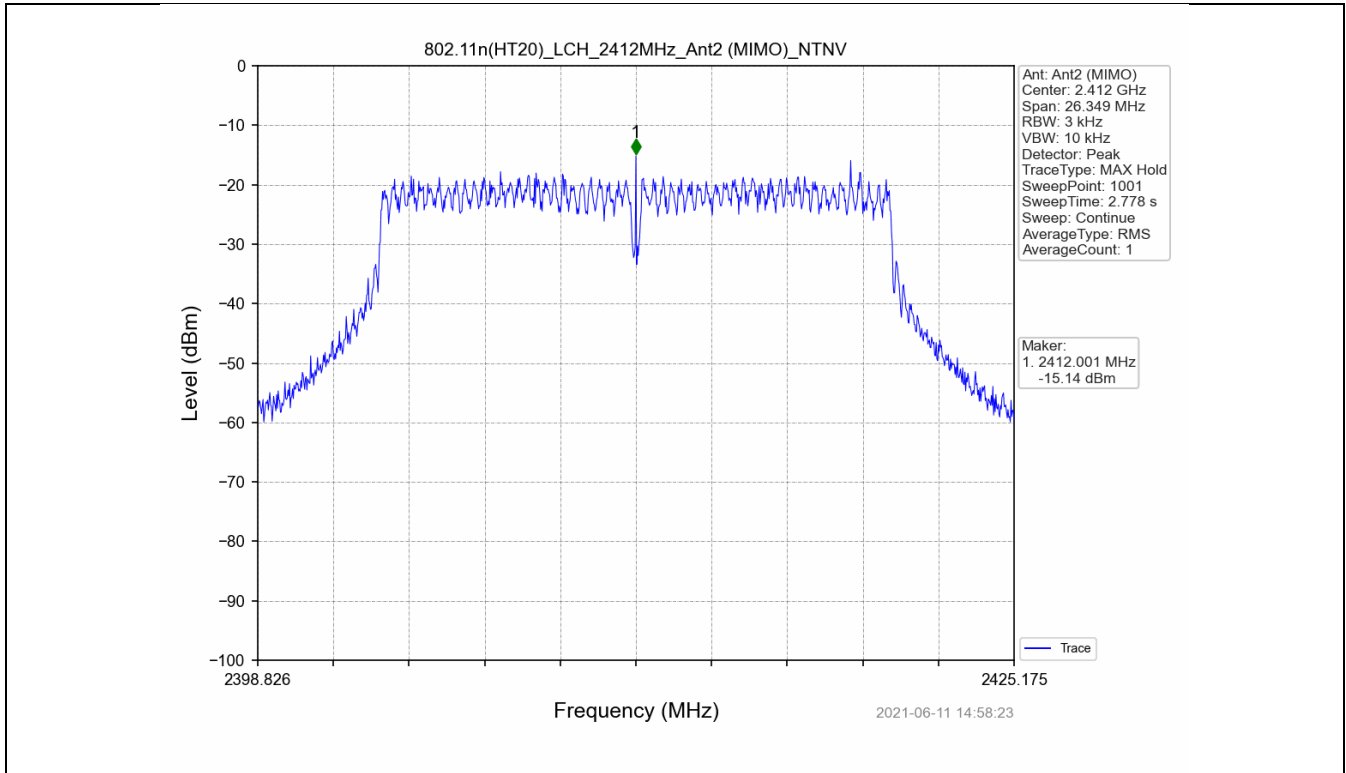


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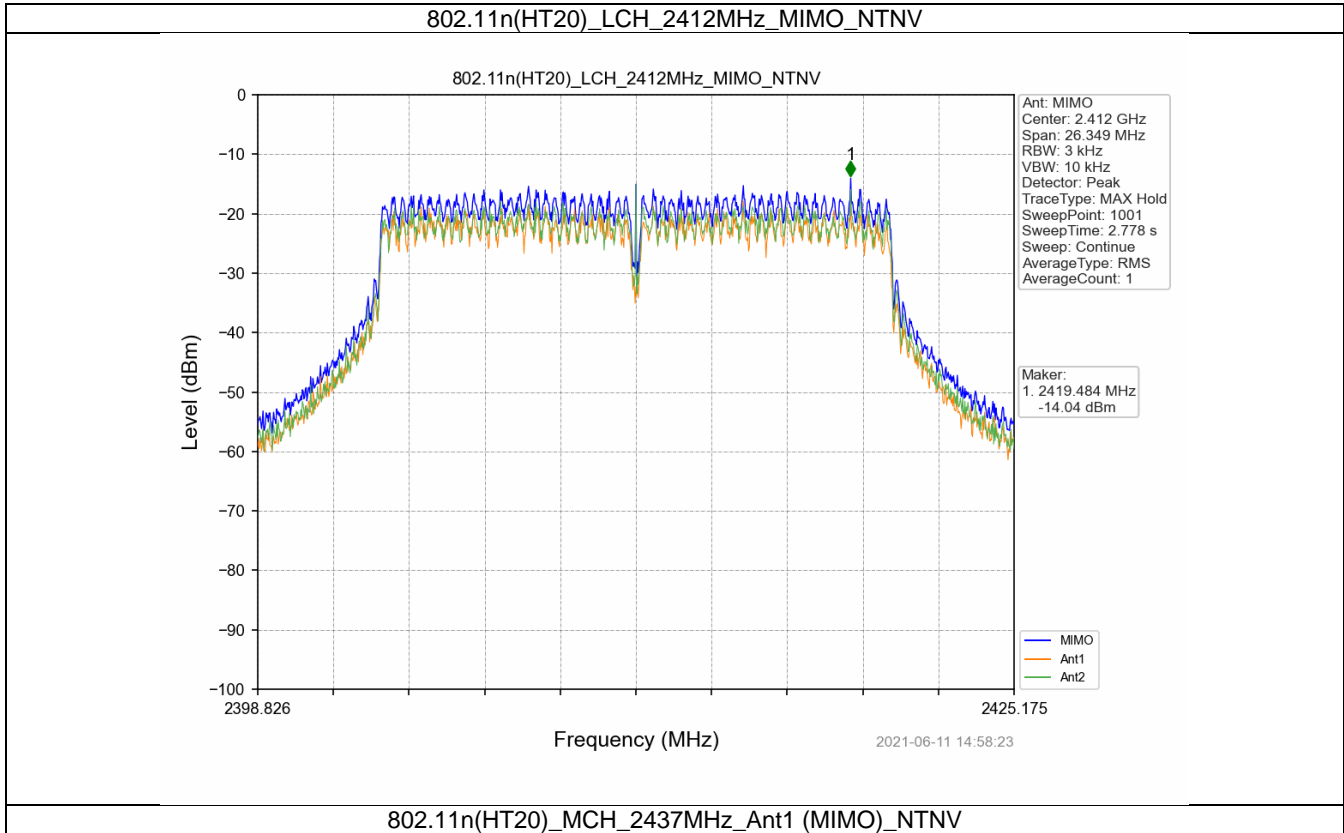
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