

## Appendix Test Data

Project No.:	18220WC10141001	Test Date:	2021.6.28
Test Engineer:	<i>Jomy He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56 %
Pressure:	1012 hPa		

### 1. Duty Cycle

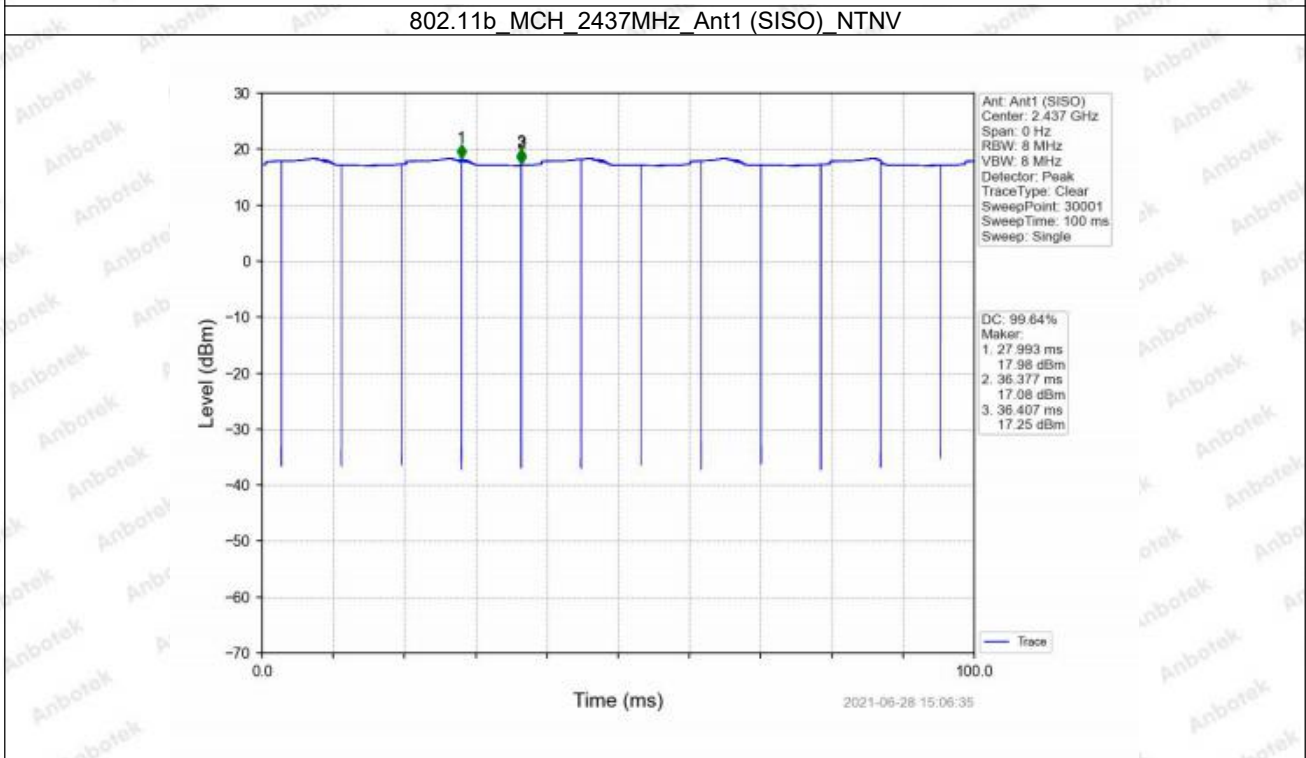
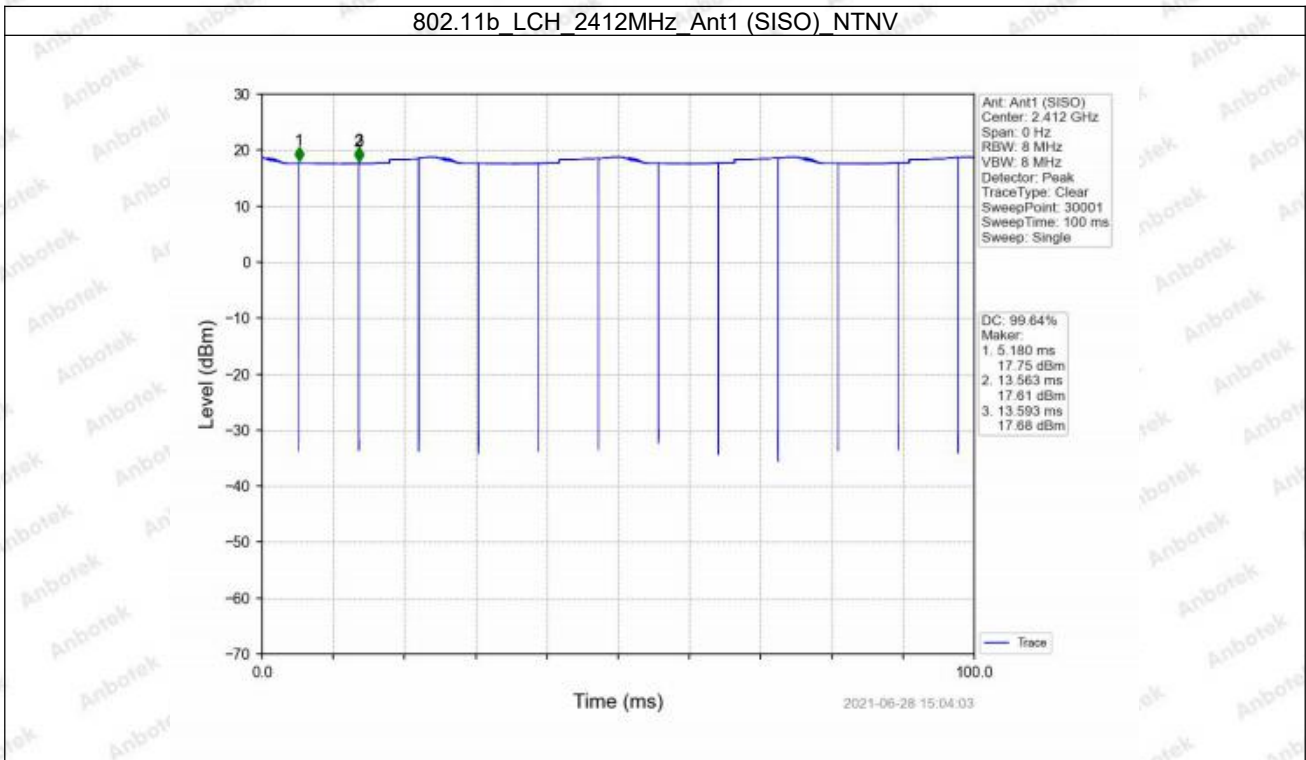
#### 1.1 Ant1

##### 1.1.1 Test Result

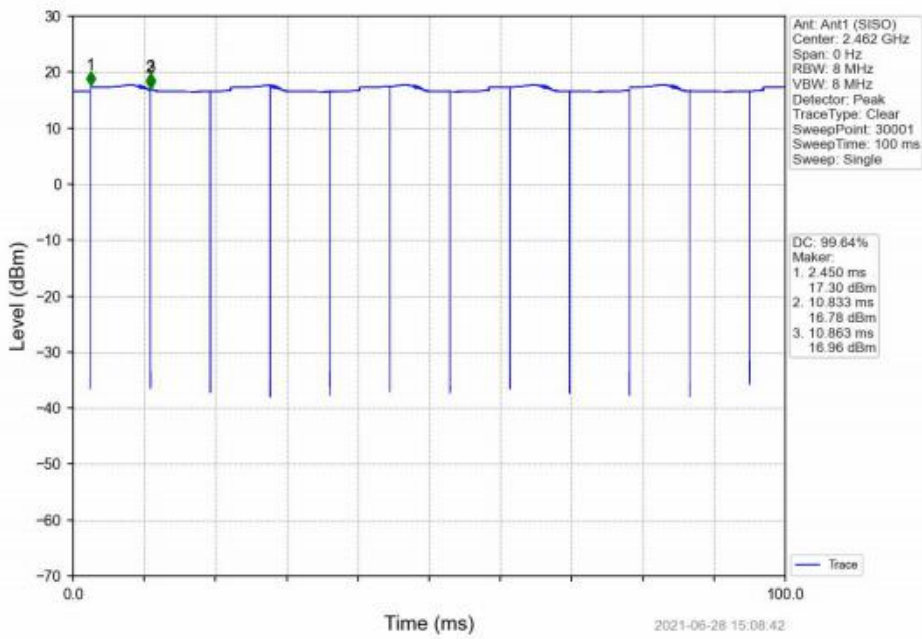
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.38	8.41	99.64	0.02	0.04
		2437	/	/	8.38	8.41	99.64	0.02	0.04
		2462	/	/	8.38	8.41	99.64	0.02	0.00
802.11g	SISO	2412	/	/	1.39	1.43	97.48	0.11	0.03
		2437	/	/	1.39	1.43	97.48	0.11	0.03
		2462	/	/	1.39	1.43	97.48	0.11	0.03
802.11n (HT20)	SISO	2412	/	/	1.30	1.33	97.30	0.12	0.03
		2437	/	/	1.30	1.34	97.31	0.12	0.03
		2462	/	/	1.30	1.34	97.31	0.12	0.03

Note1: Only for Report Use

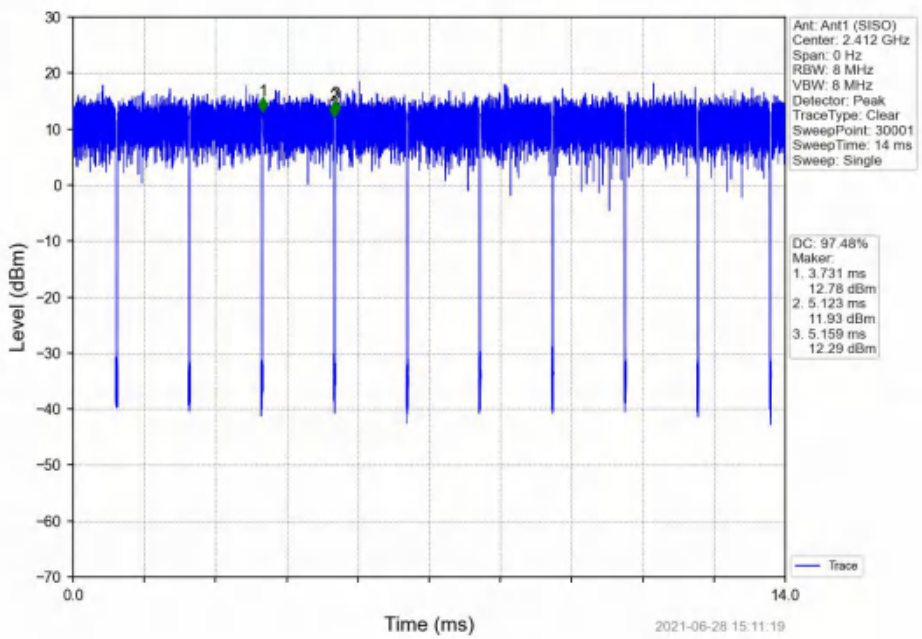
1.1.2 Test Graph



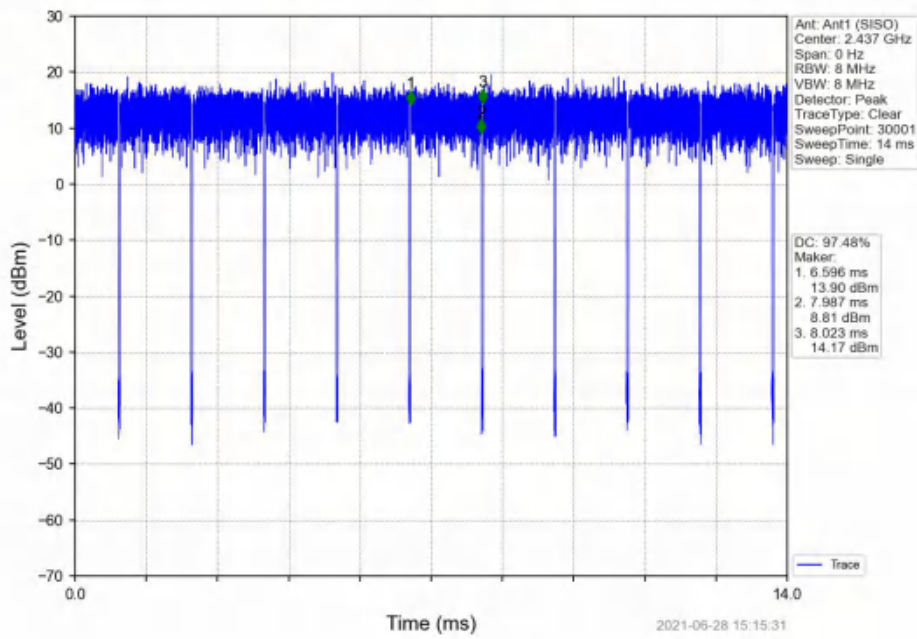
### 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



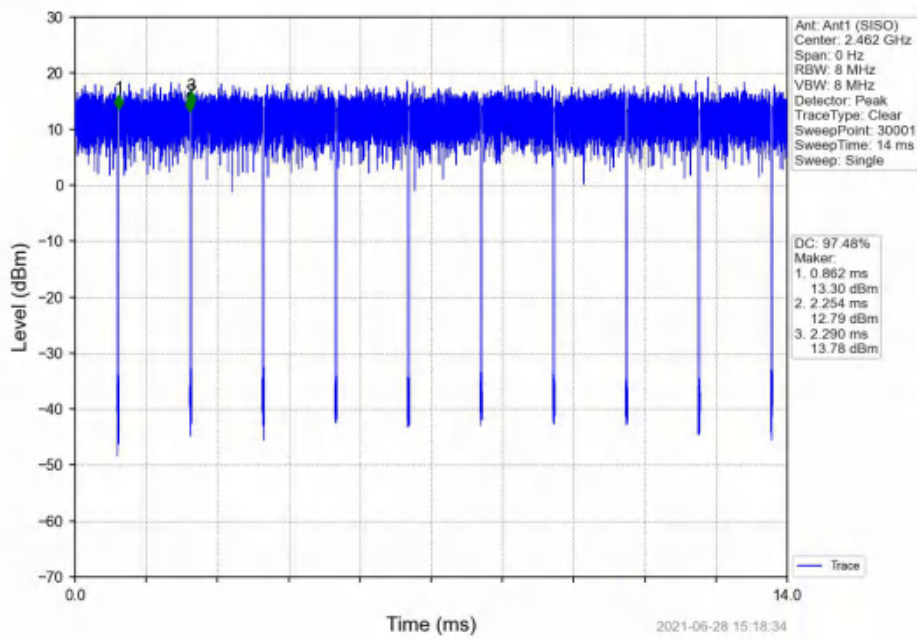
### 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



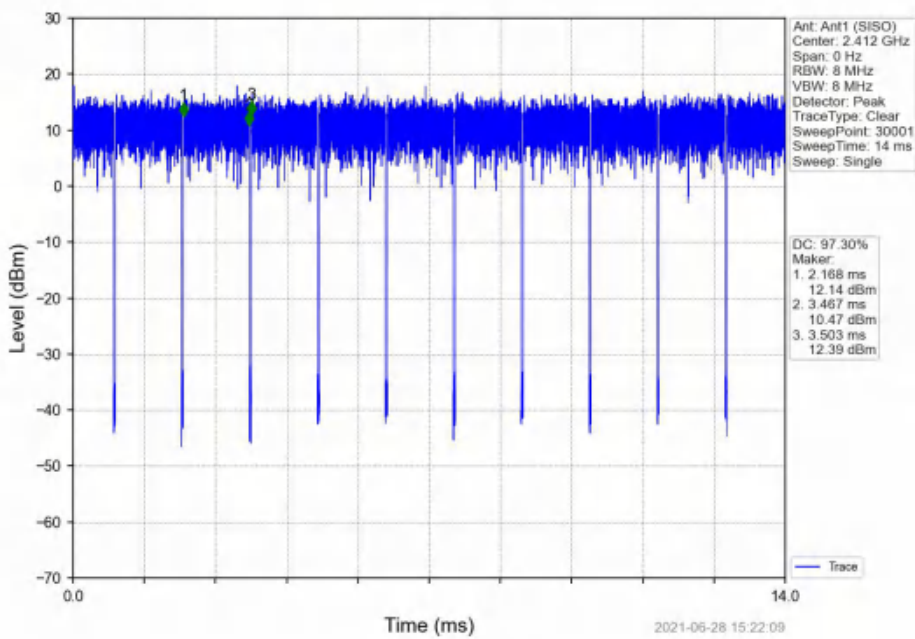
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



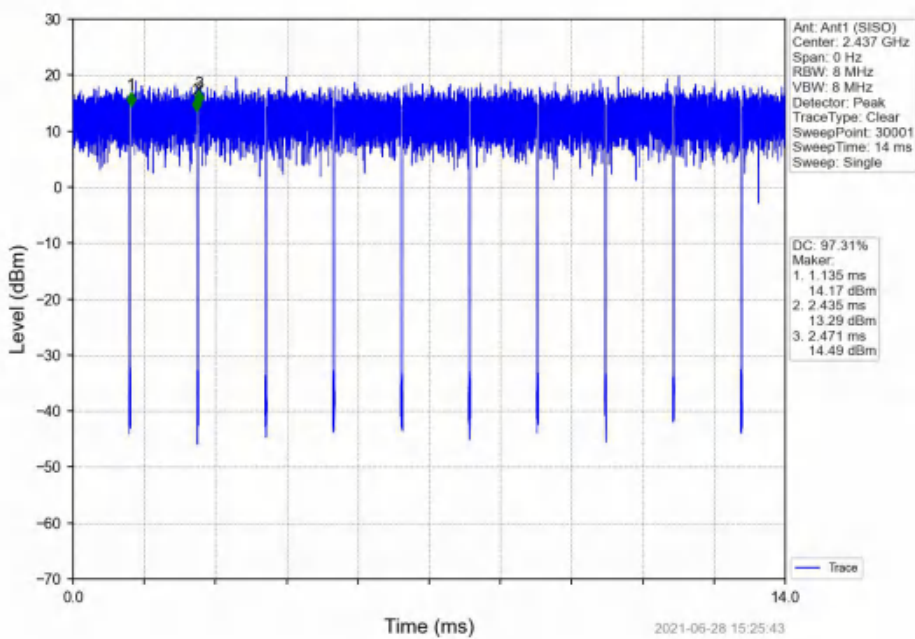
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

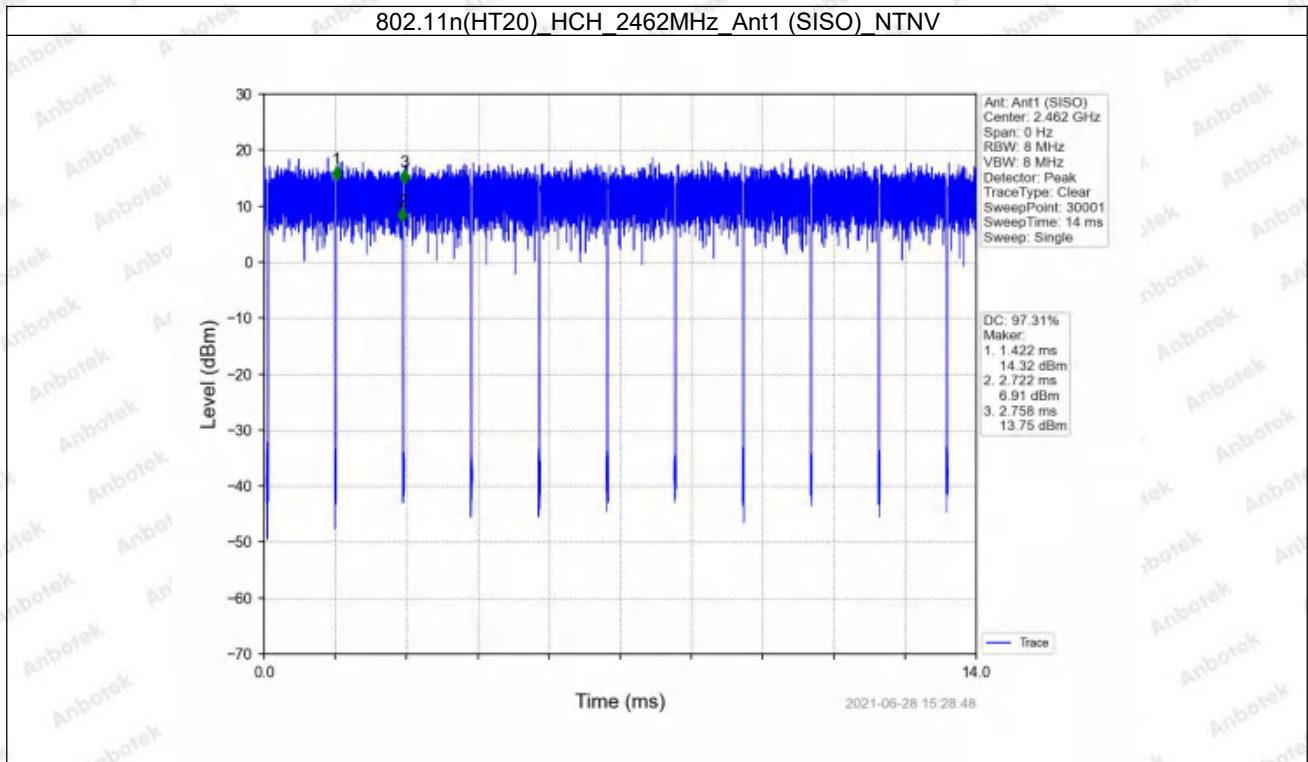


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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





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## 2. Bandwidth

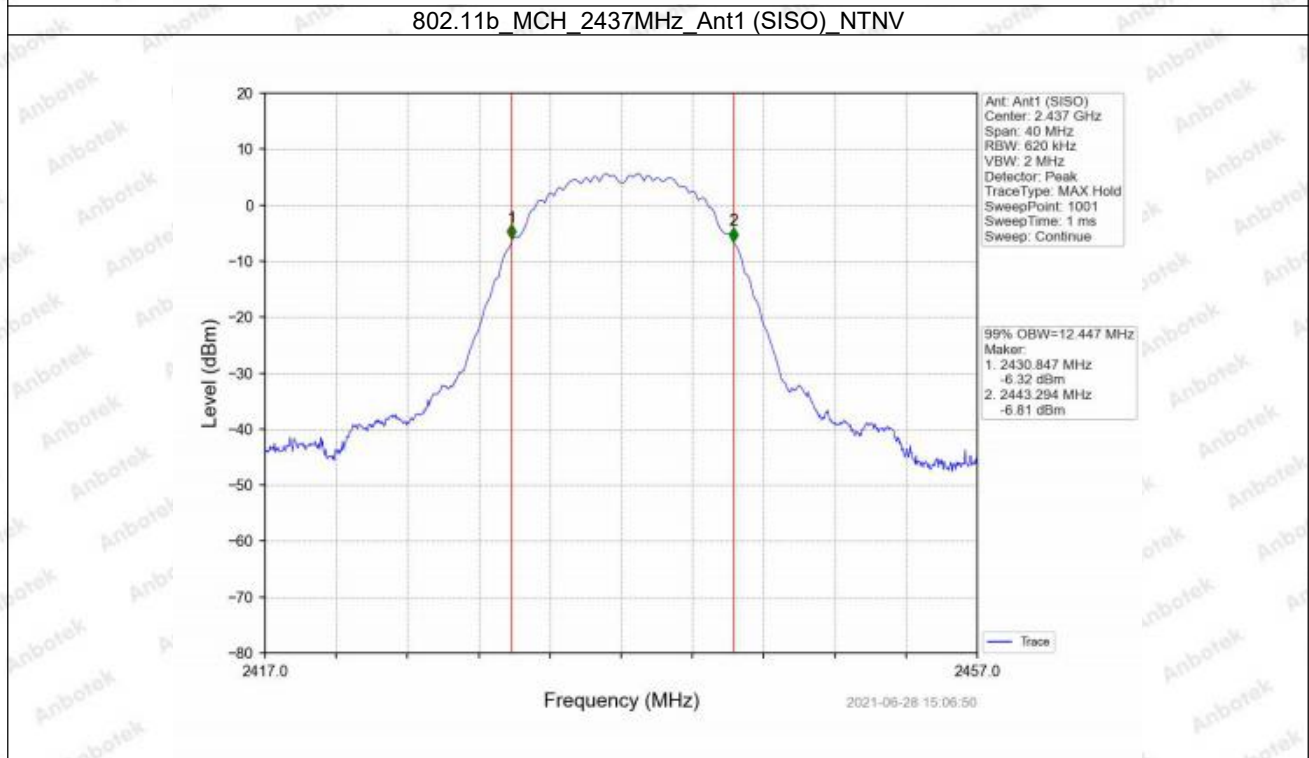
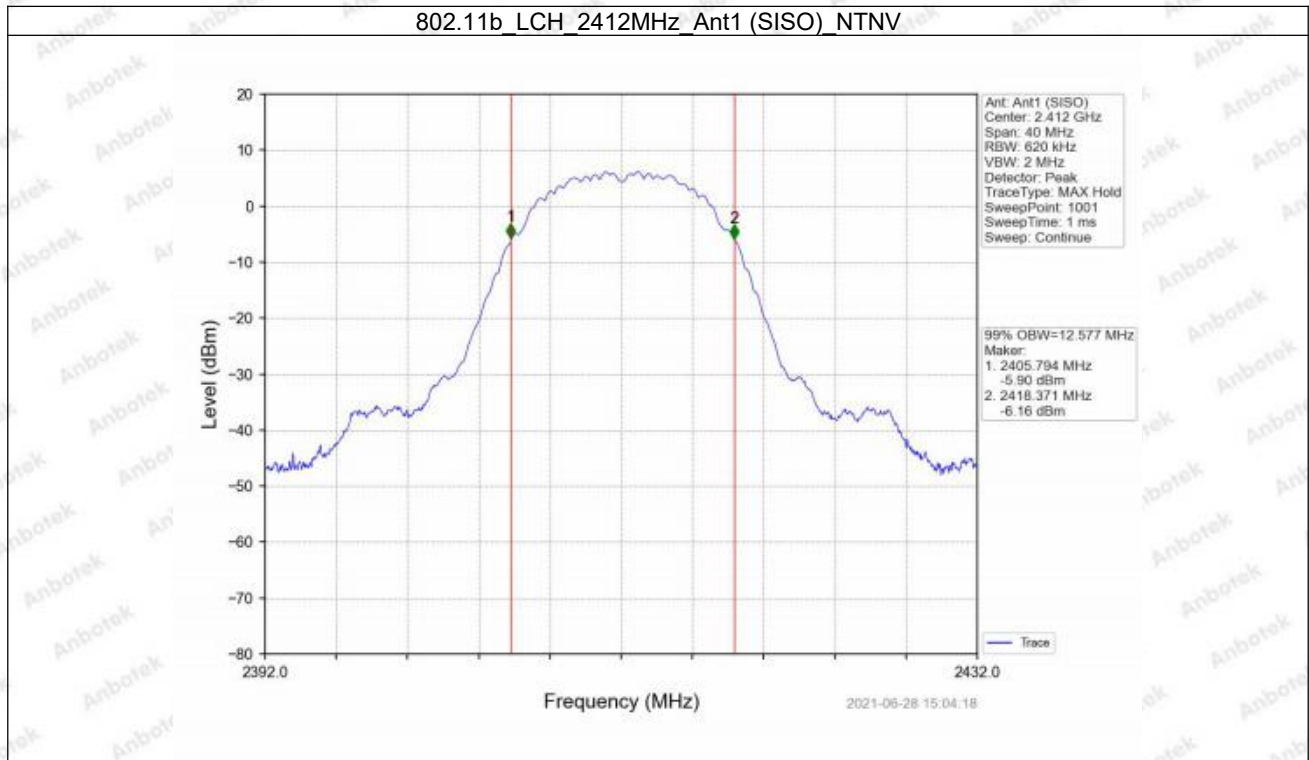
### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	12.58	/	Note1
		2437	/	/	1	12.45	/	Note1
		2462	/	/	1	12.44	/	Note1
802.11g	SISO	2412	/	/	1	17.48	/	Note1
		2437	/	/	1	17.70	/	Note1
		2462	/	/	1	18.30	/	Note1
802.11n (HT20)	SISO	2412	/	/	1	18.16	/	Note1
		2437	/	/	1	18.46	/	Note1
		2462	/	/	1	18.74	/	Note1

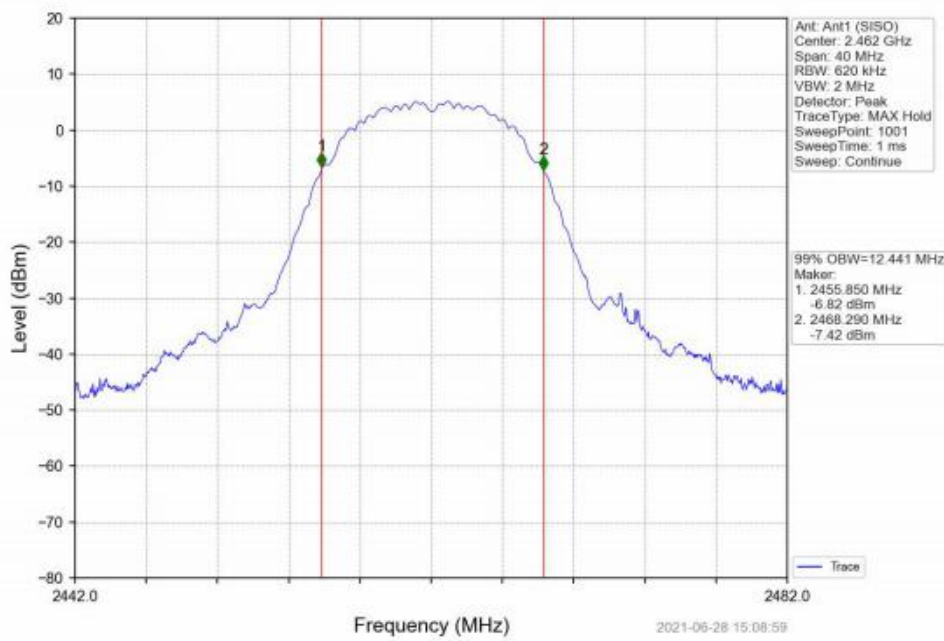
Note1: Only for Report Use

2.1.2 Test Graph

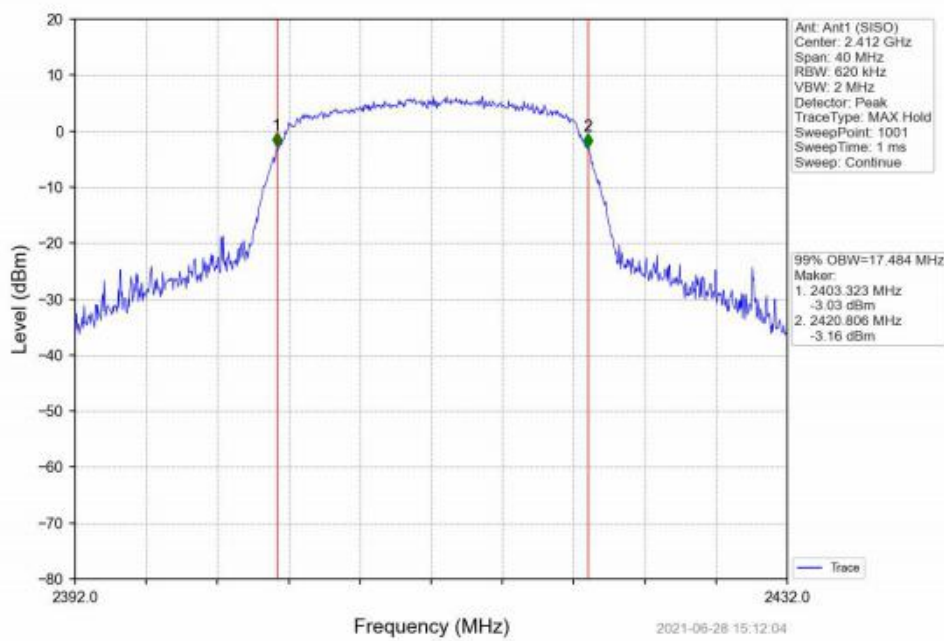




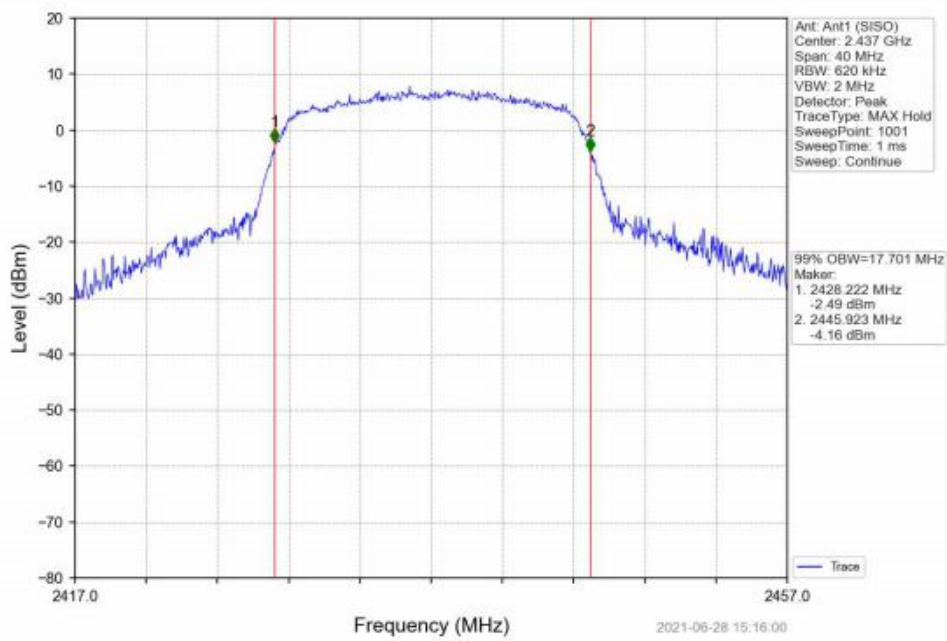
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



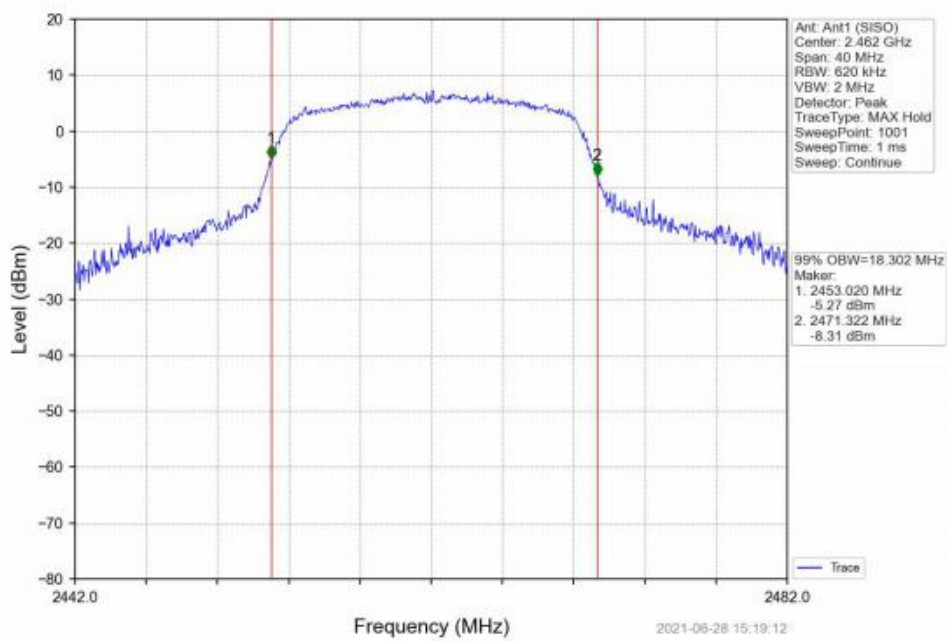
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



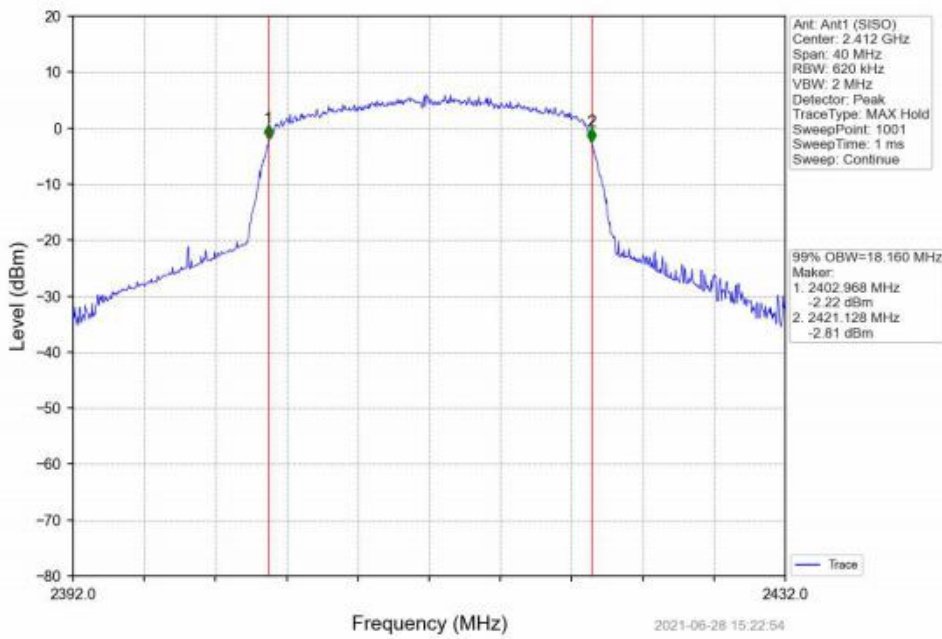
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



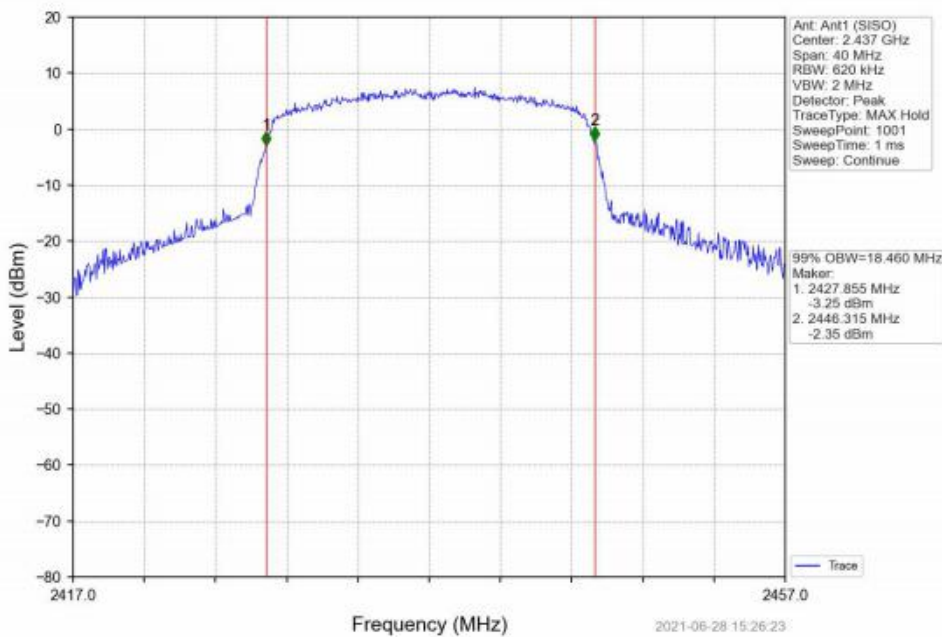
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

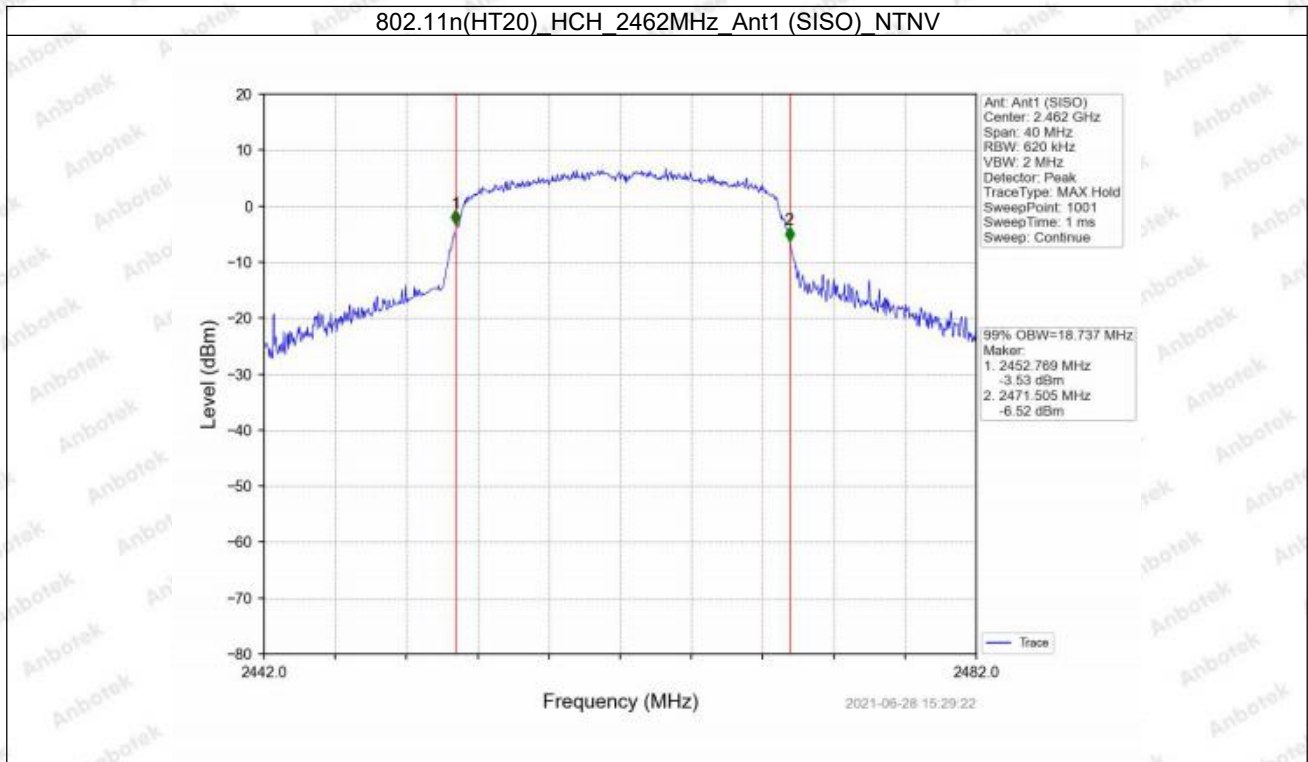


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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





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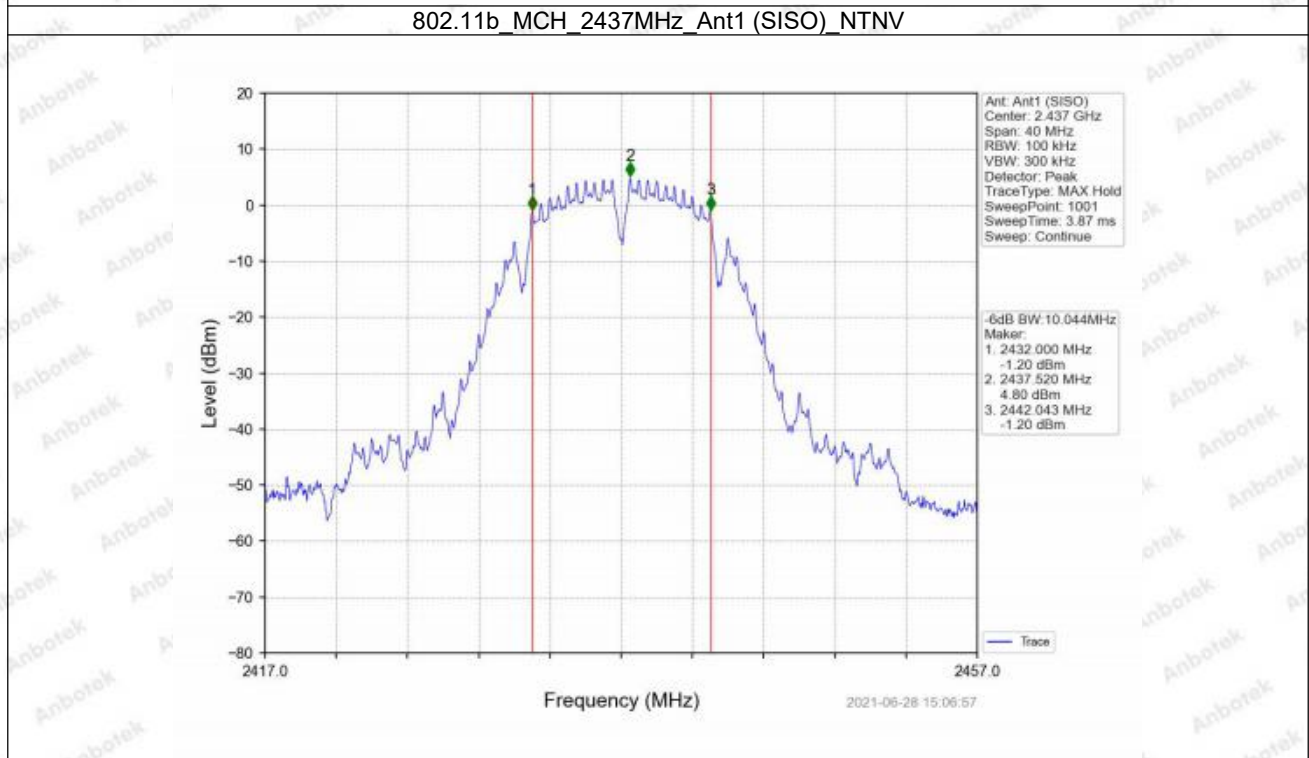
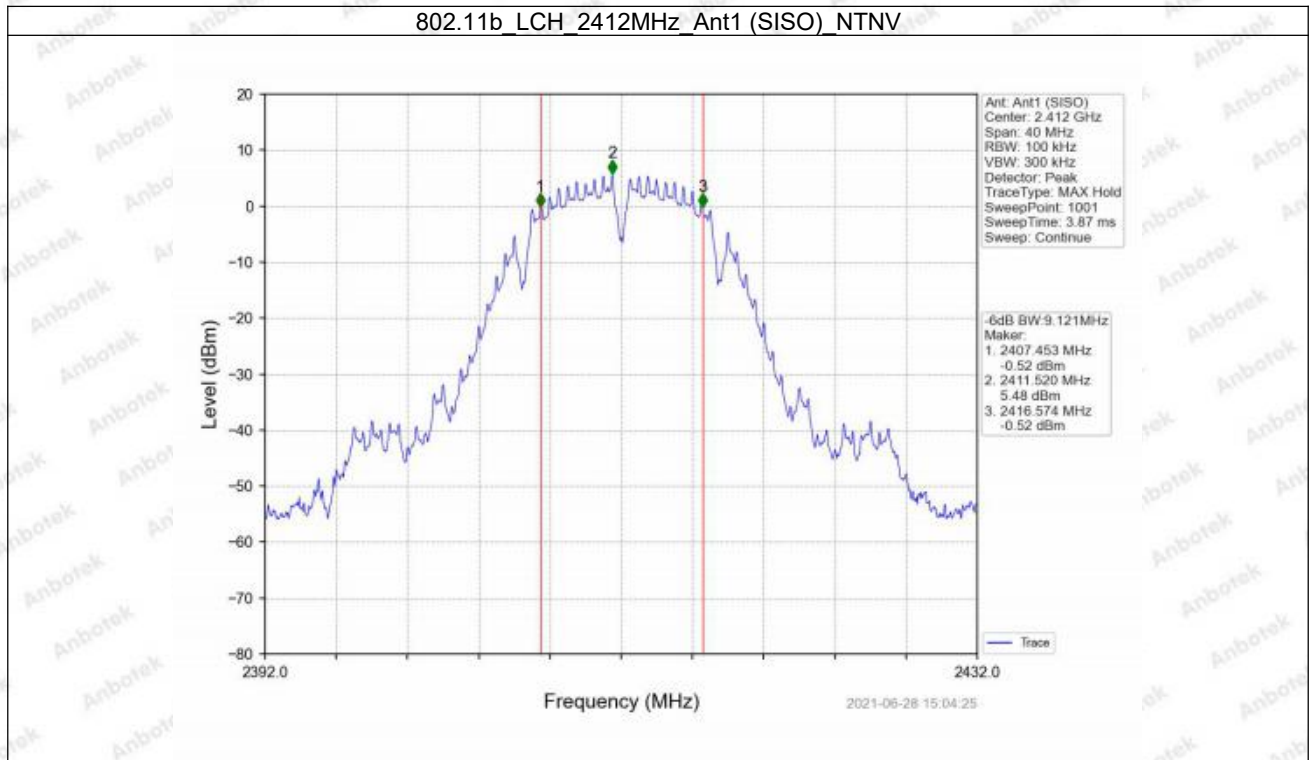
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## 2.2 6dB BW

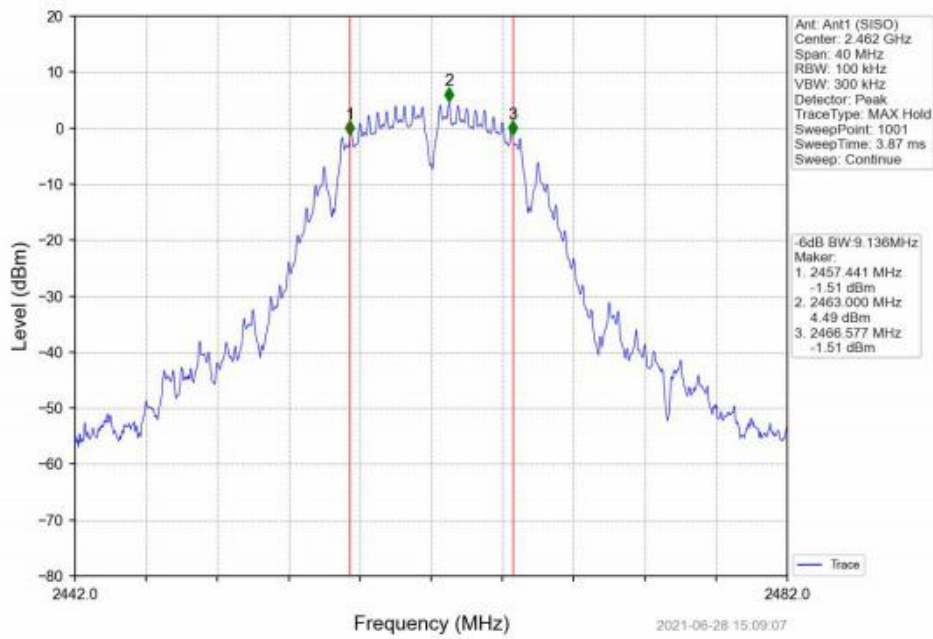
### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	9.12	>=0.5	Pass
		2437	/	/	1	10.04	>=0.5	Pass
		2462	/	/	1	9.14	>=0.5	Pass
802.11g	SISO	2412	/	/	1	15.34	>=0.5	Pass
		2437	/	/	1	15.17	>=0.5	Pass
		2462	/	/	1	15.17	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	15.17	>=0.5	Pass
		2437	/	/	1	15.18	>=0.5	Pass
		2462	/	/	1	15.18	>=0.5	Pass

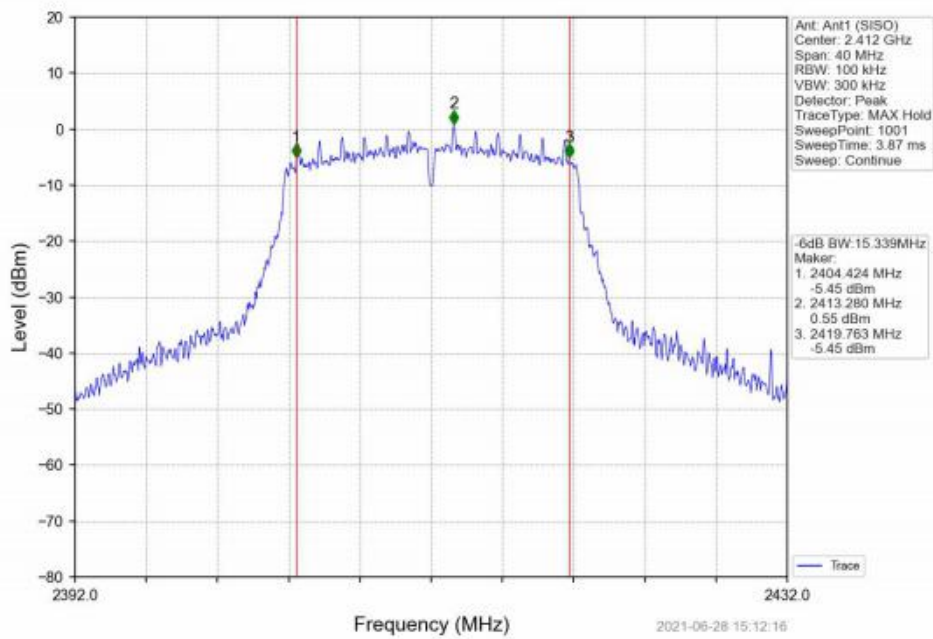
2.2.2 Test Graph



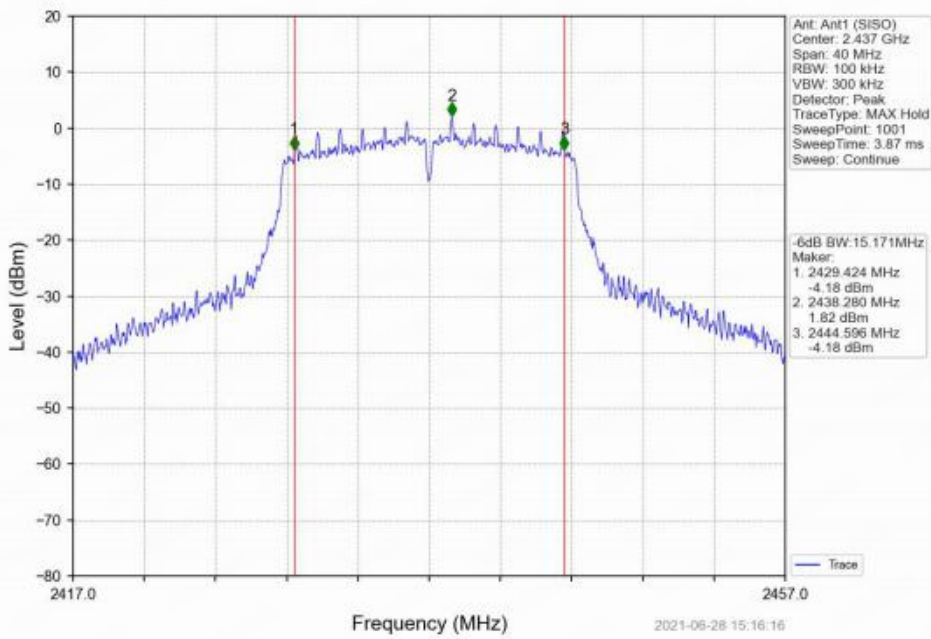
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



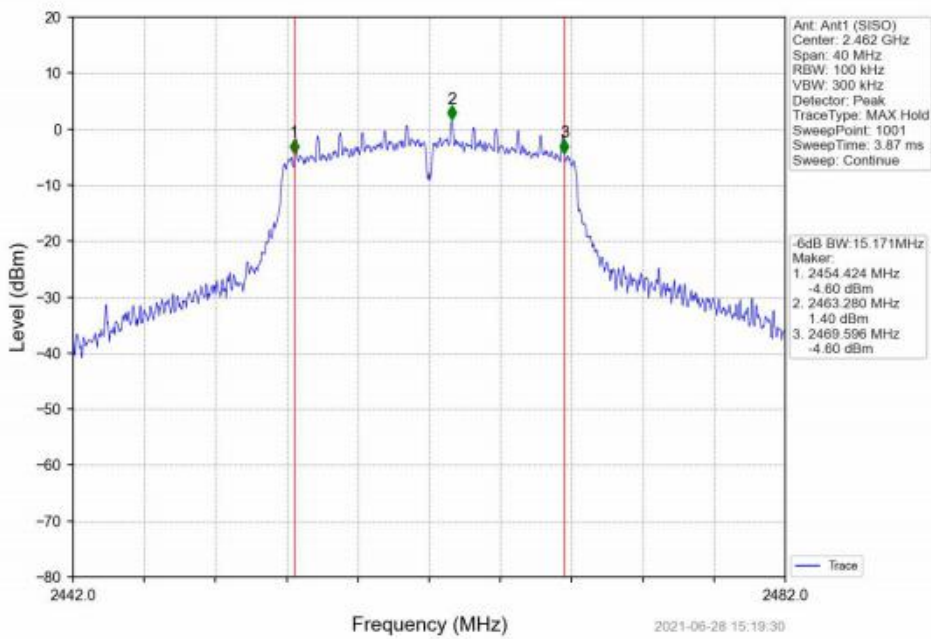
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

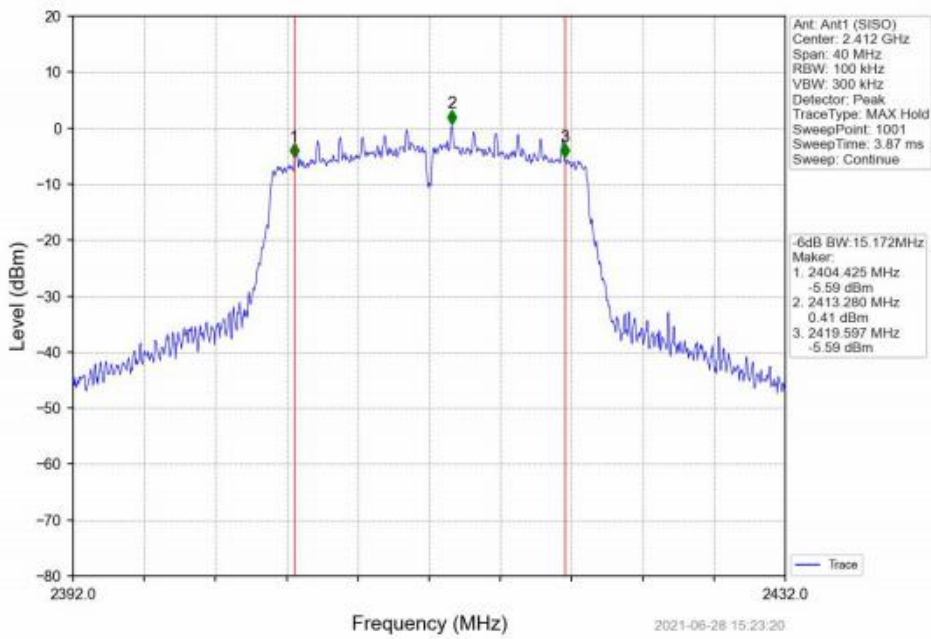


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

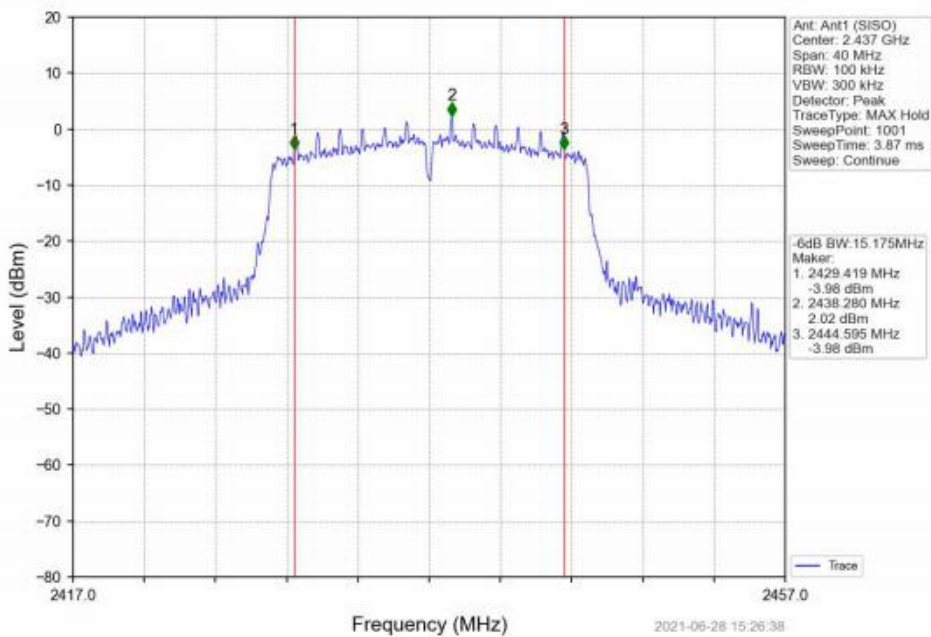


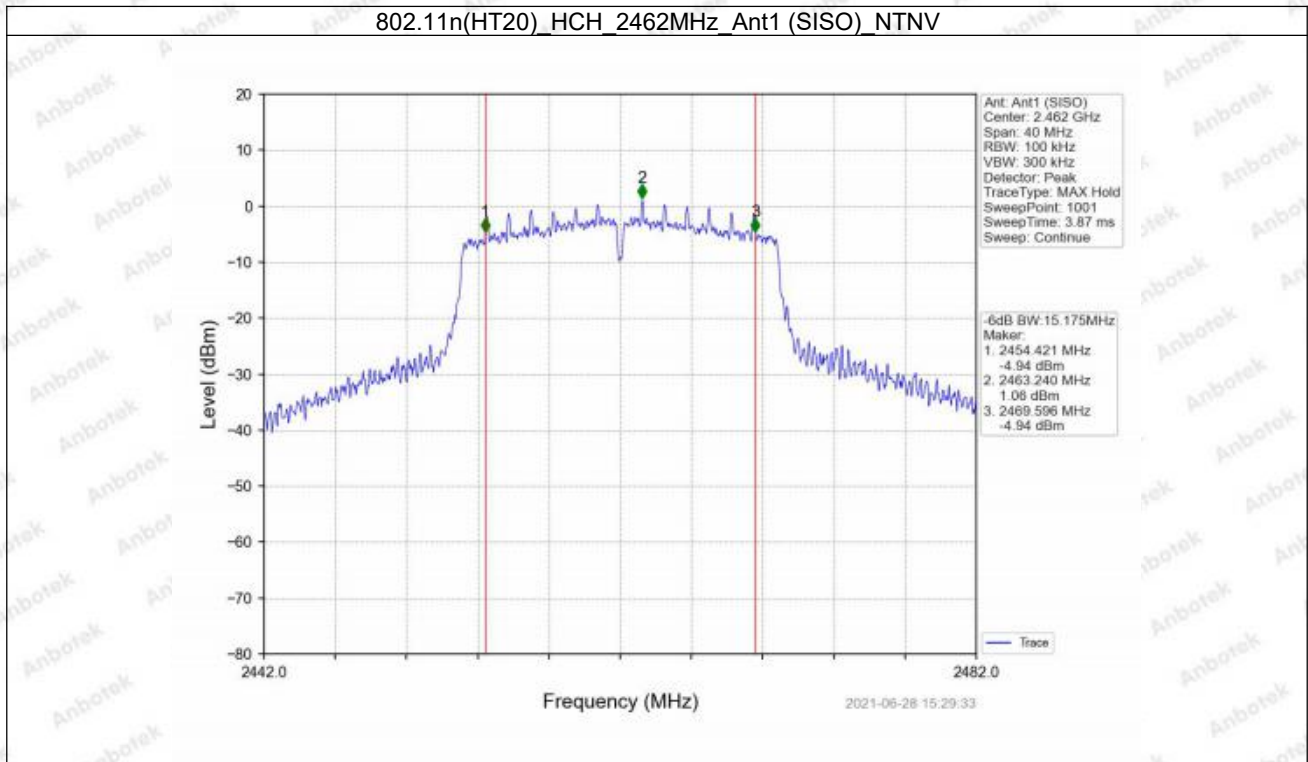


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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





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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		
802.11b	SISO	2412	/	/	16.72	<=30	Pass
		2437	/	/	16.39	<=30	Pass
		2462	/	/	15.68	<=30	Pass
802.11g	SISO	2412	/	/	18.29	<=30	Pass
		2437	/	/	19.44	<=30	Pass
		2462	/	/	18.92	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	17.81	<=30	Pass
		2437	/	/	19.41	<=30	Pass
		2462	/	/	18.64	<=30	Pass

Note1: Antenna Gain: 2.80dBi;

### 4. Maximum Power Spectral Density

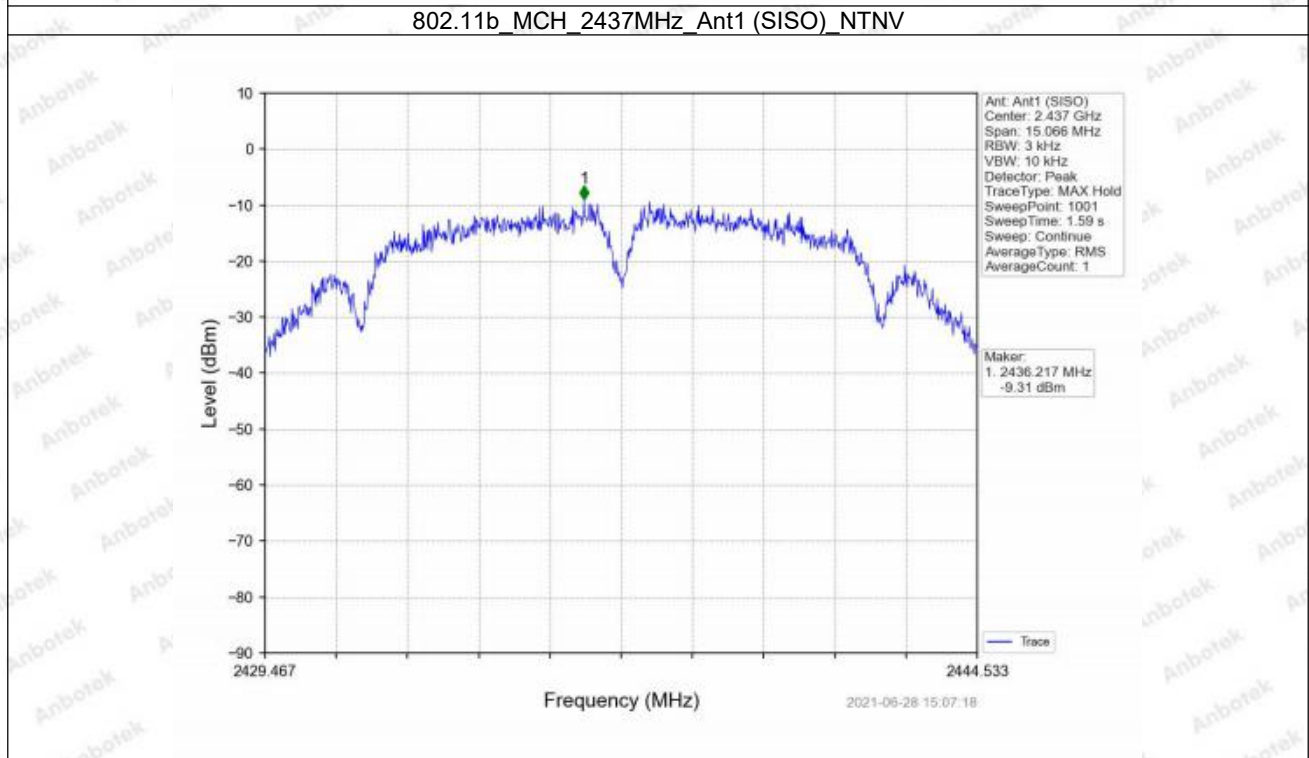
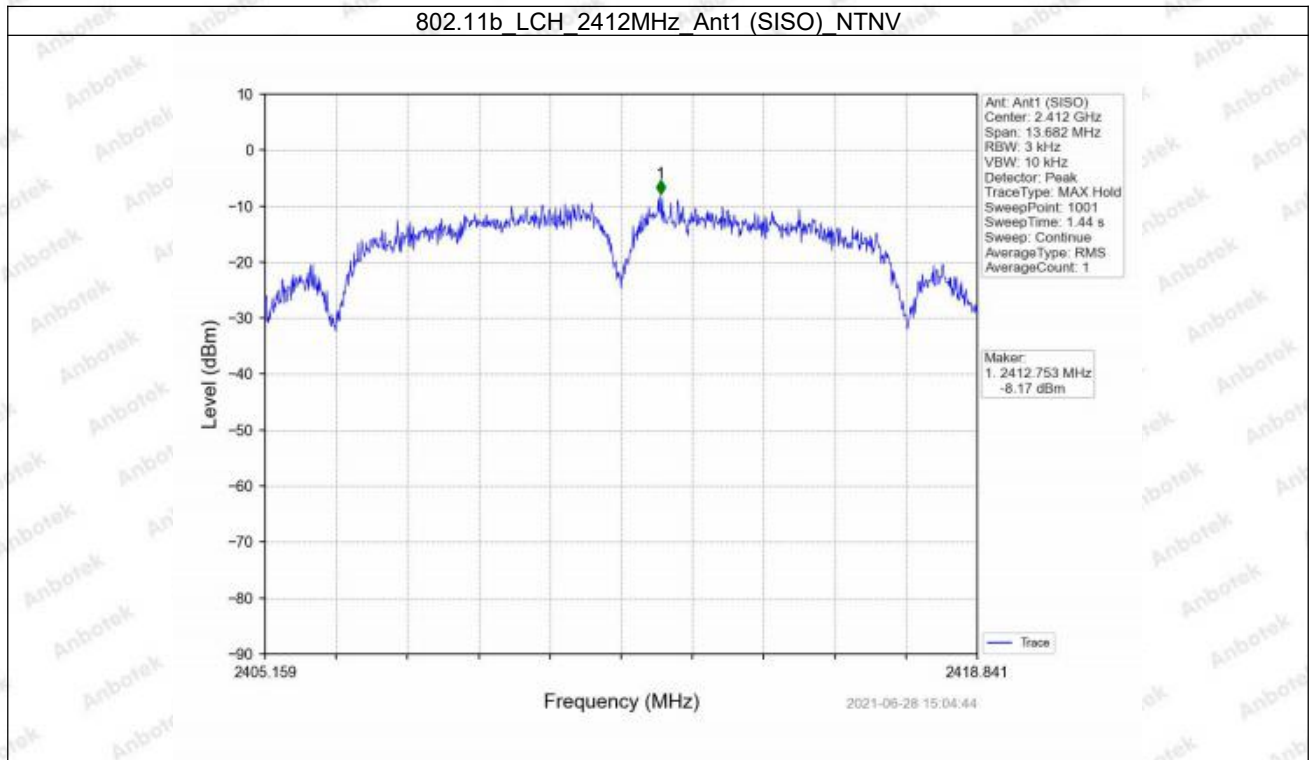
#### 4.1 PSD

##### 4.1.1 Test Result

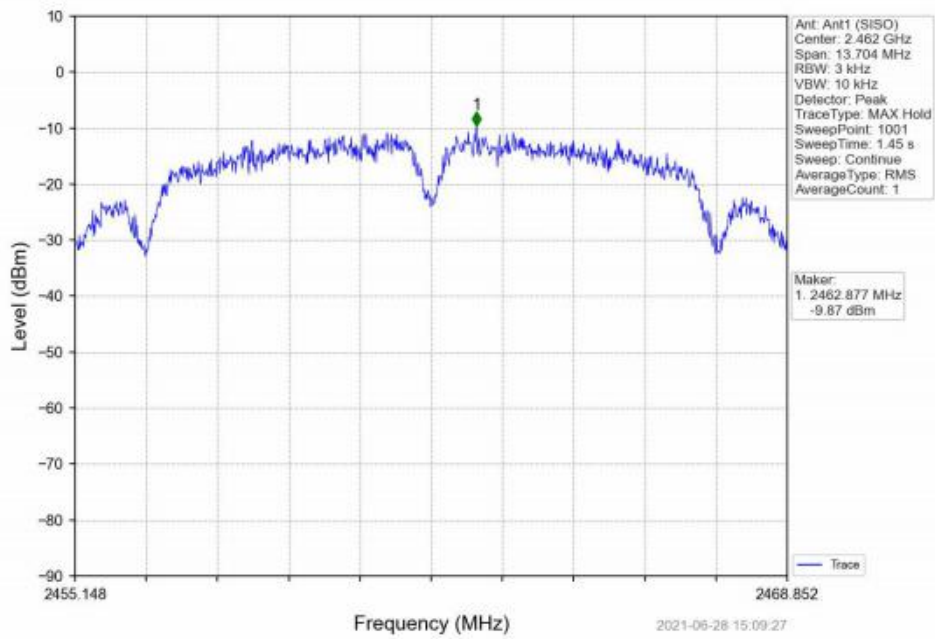
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-8.17	<=8	Pass
		2437	/	/	-9.31	<=8	Pass
		2462	/	/	-9.87	<=8	Pass
802.11g	SISO	2412	/	/	-14.63	<=8	Pass
		2437	/	/	-12.43	<=8	Pass
		2462	/	/	-13.54	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-14.75	<=8	Pass
		2437	/	/	-13.60	<=8	Pass
		2462	/	/	-13.87	<=8	Pass

Note1: Antenna Gain: 2.80dBi;

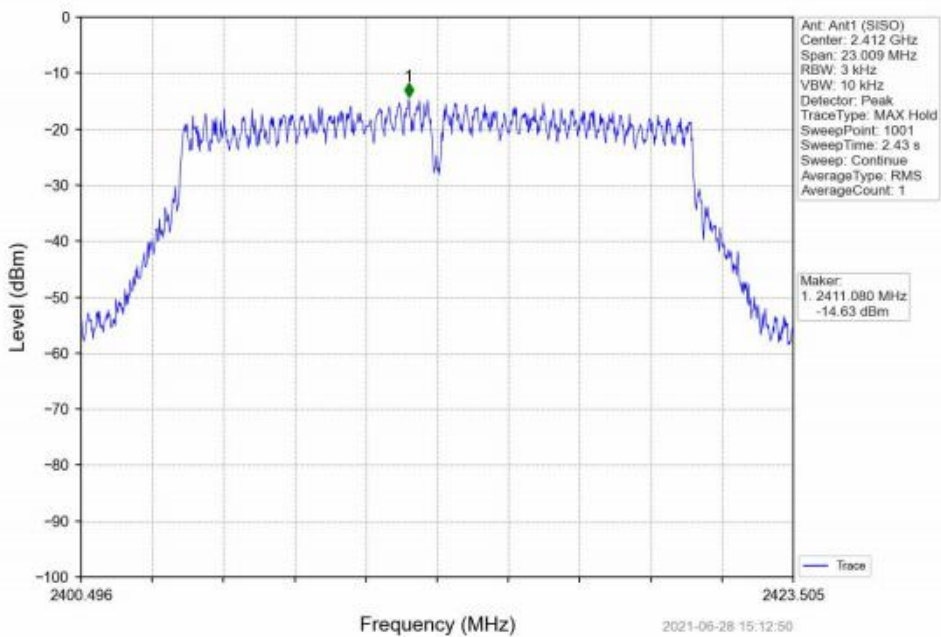
4.1.2 Test Graph



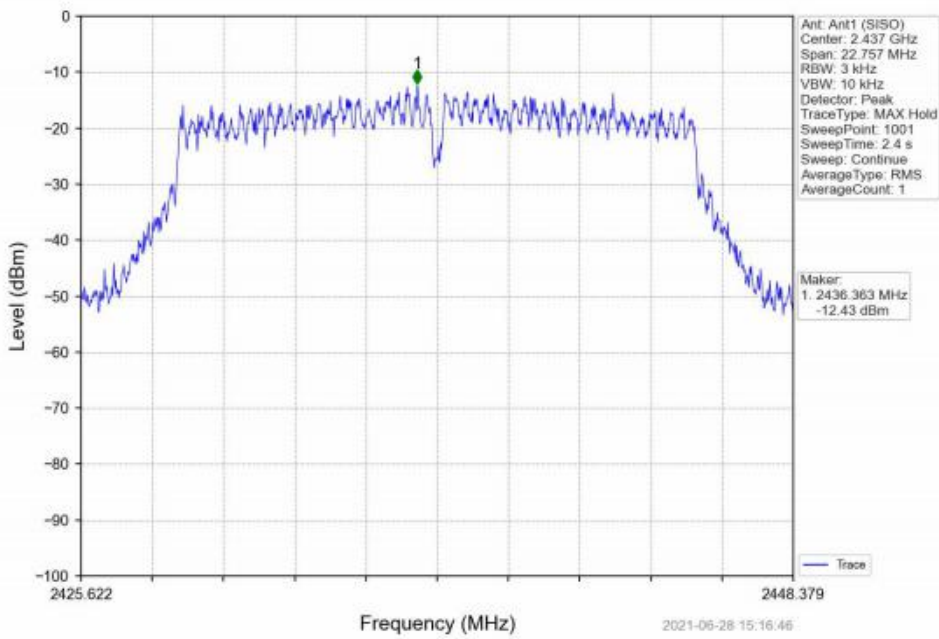
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



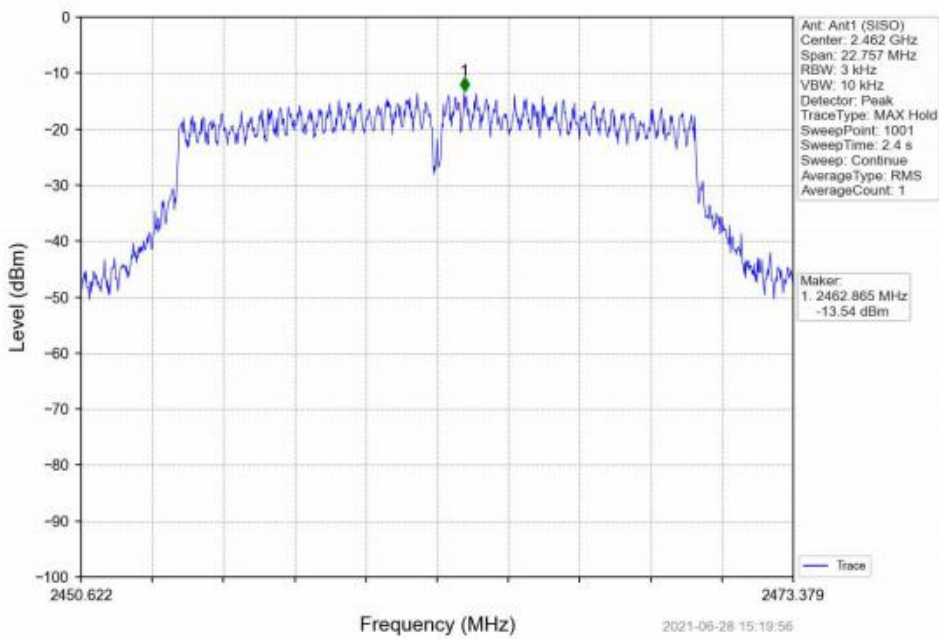
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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



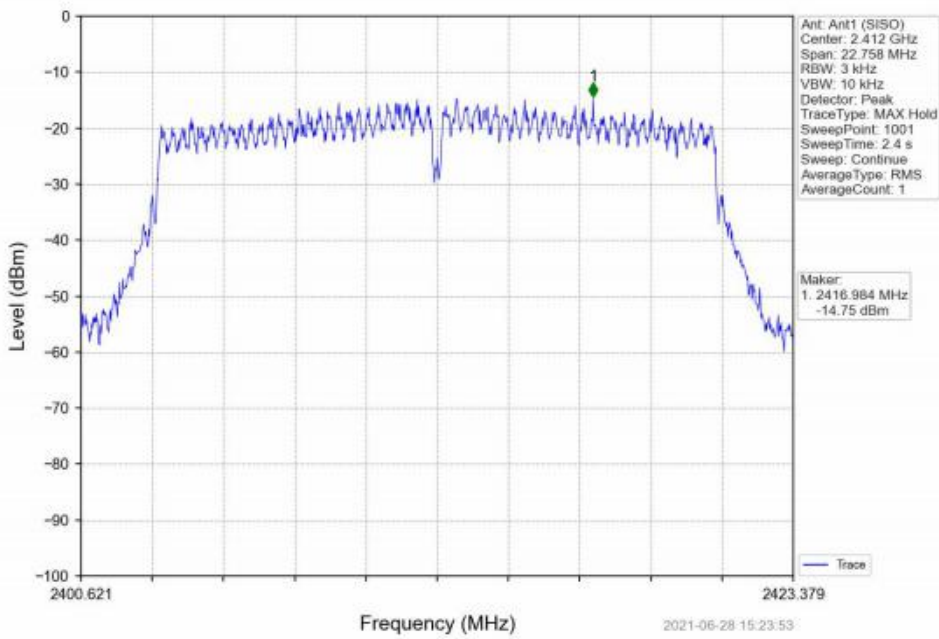
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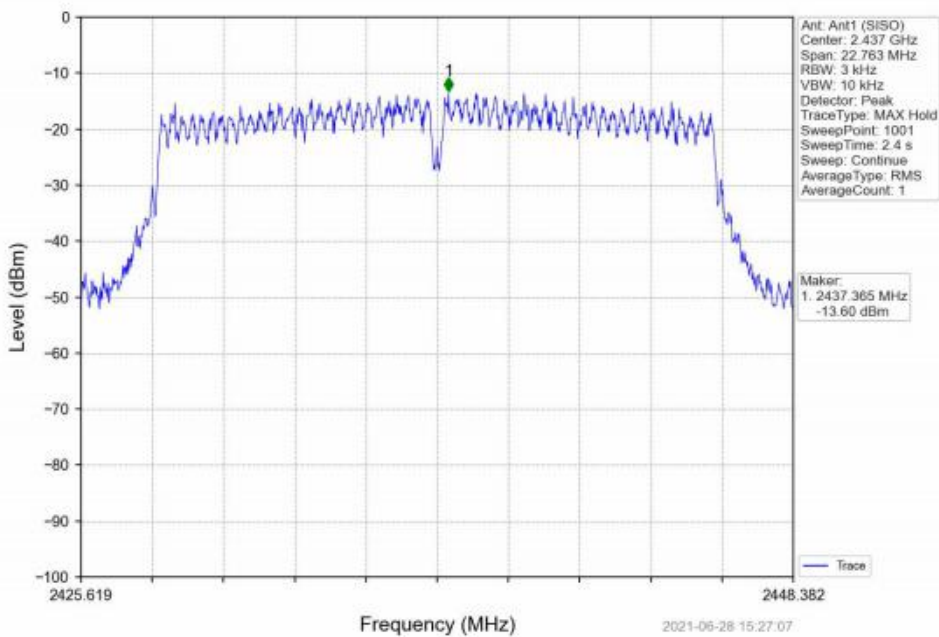
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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

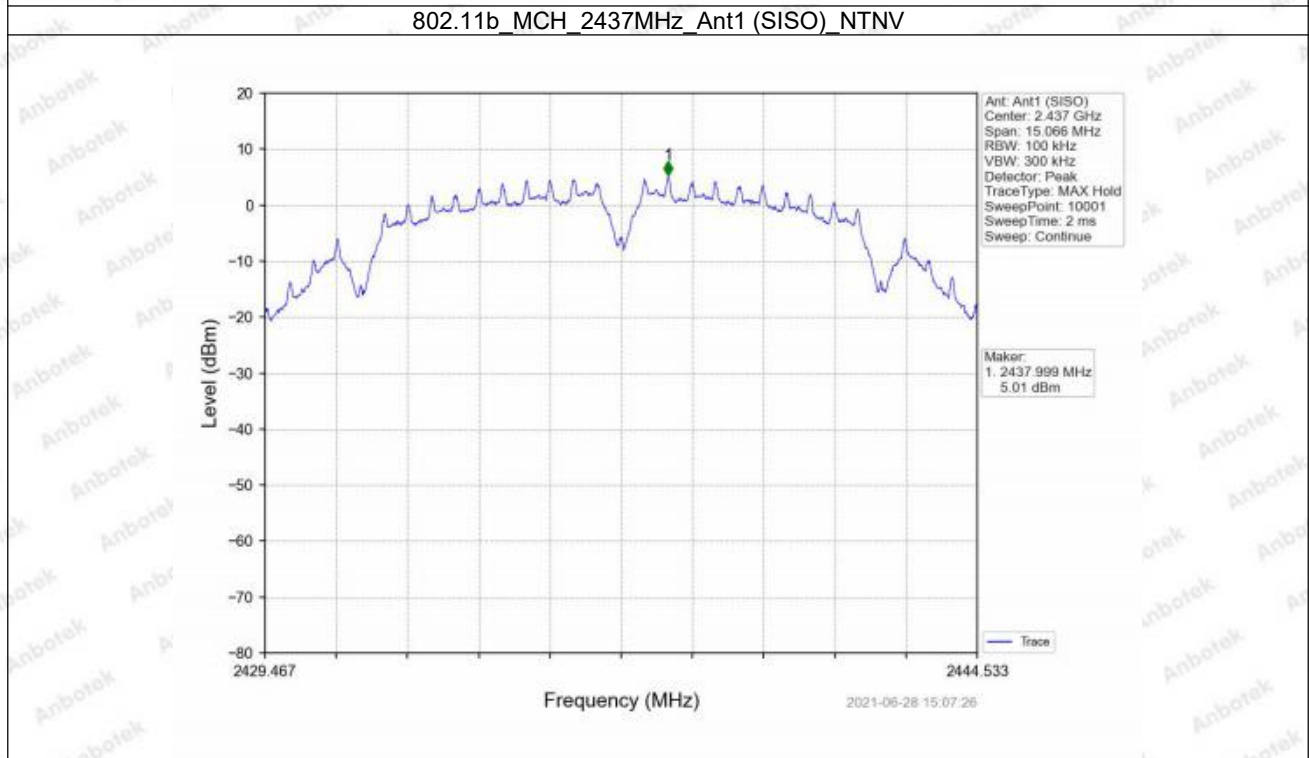
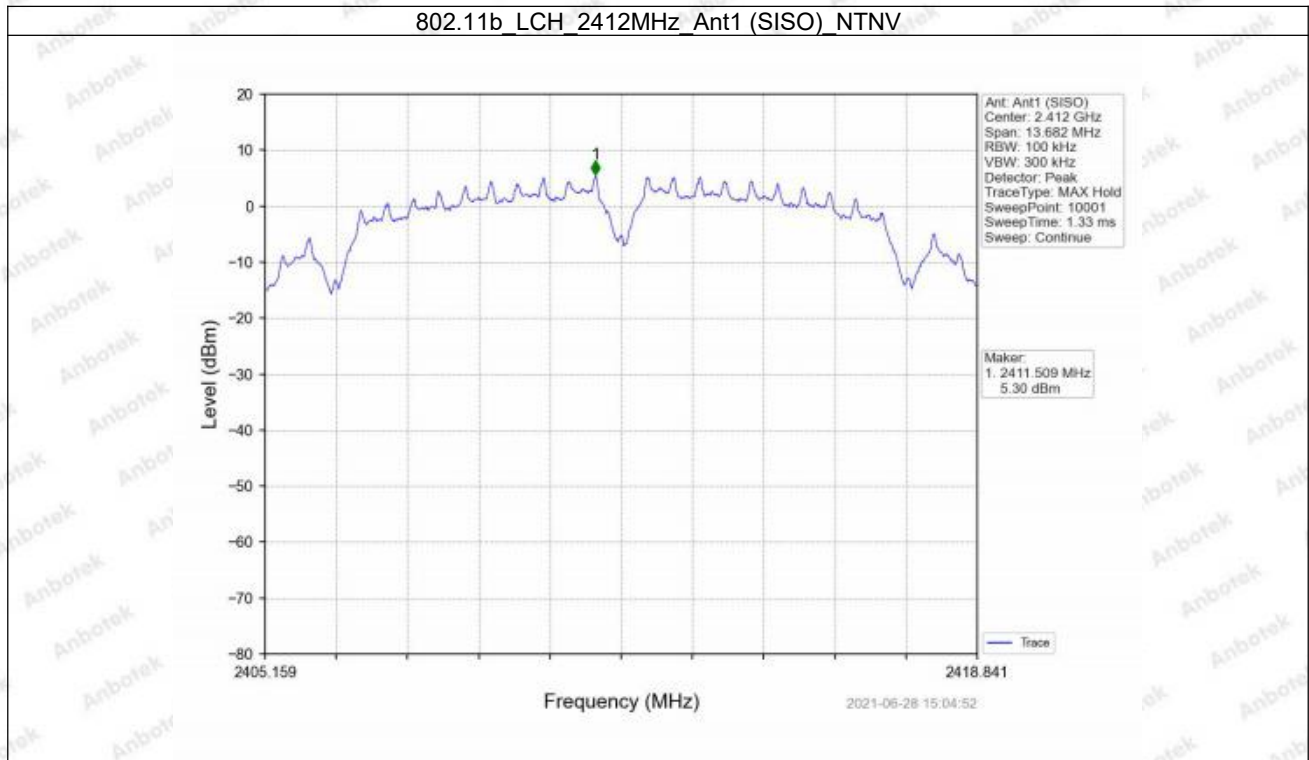
### 5.1 Ref

#### 5.1.1 Test Result

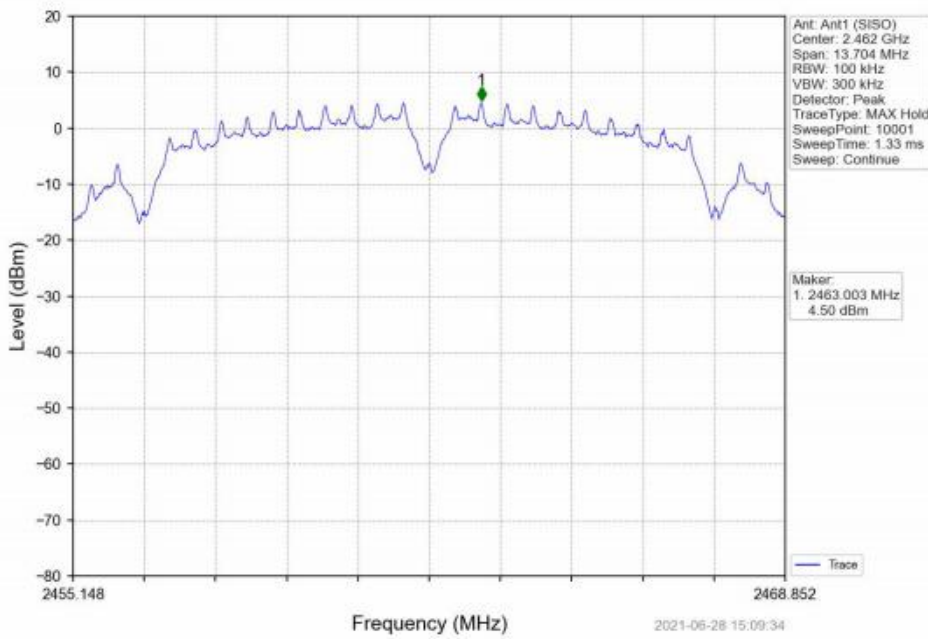
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	5.30	/	/
		2437	/	/	1	5.01	/	/
		2462	/	/	1	4.50	/	/
802.11g	SISO	2412	/	/	1	0.40	/	/
		2437	/	/	1	1.33	/	/
		2462	/	/	1	1.30	/	/
802.11n (HT20)	SISO	2412	/	/	1	0.24	/	/
		2437	/	/	1	1.90	/	/
		2462	/	/	1	1.13	/	/

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

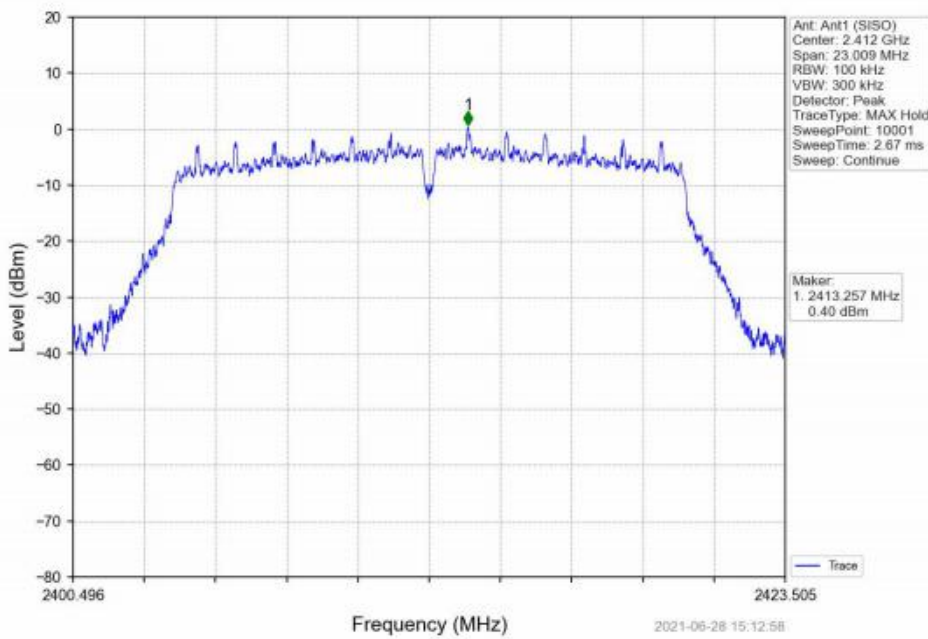
5.1.2 Test Graph



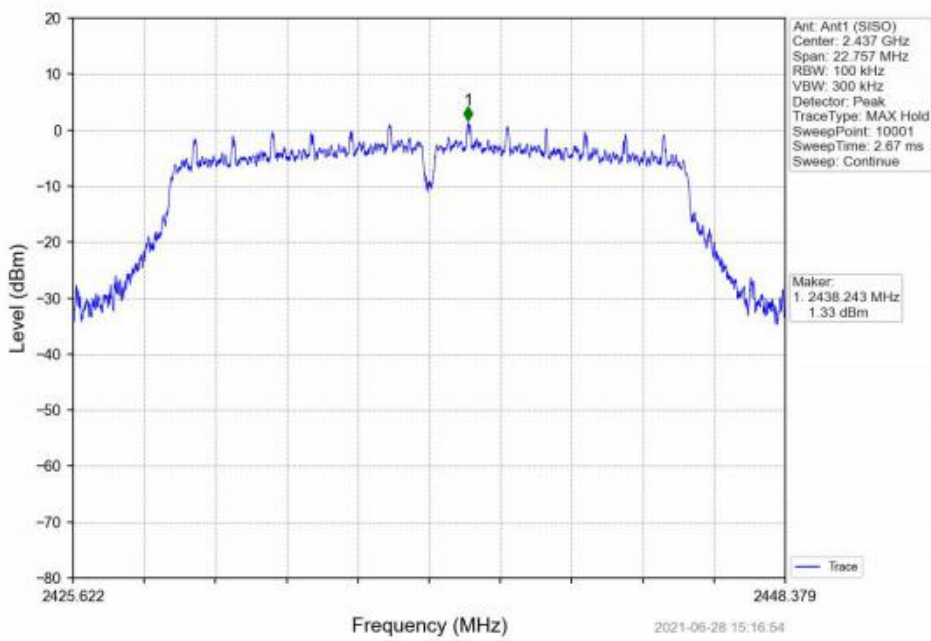
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



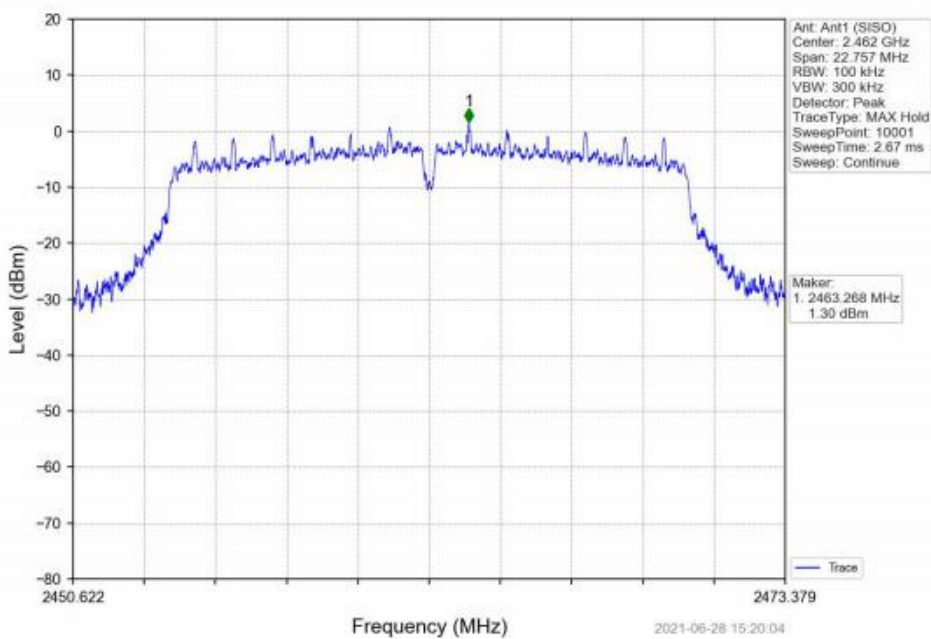
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



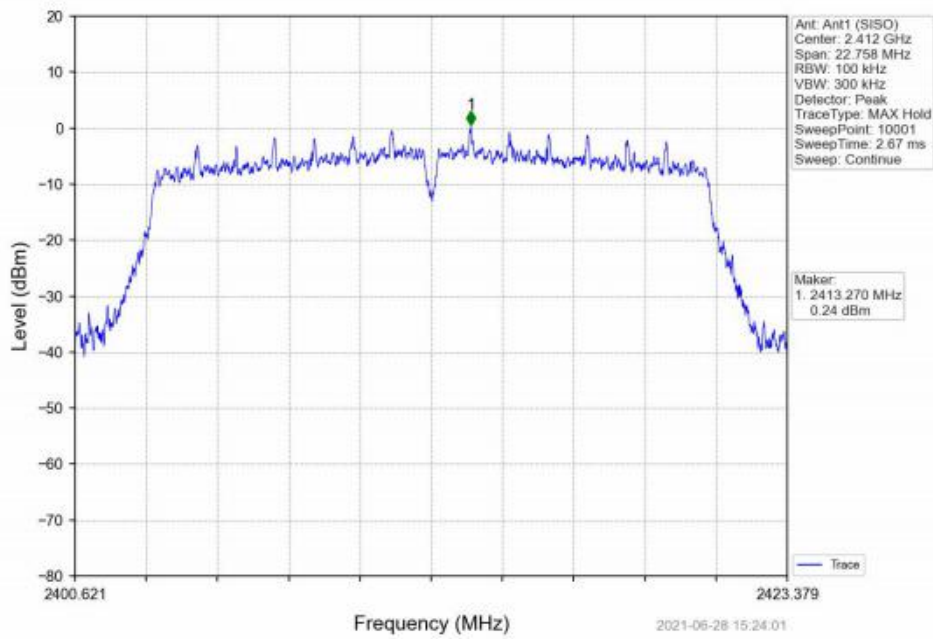
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



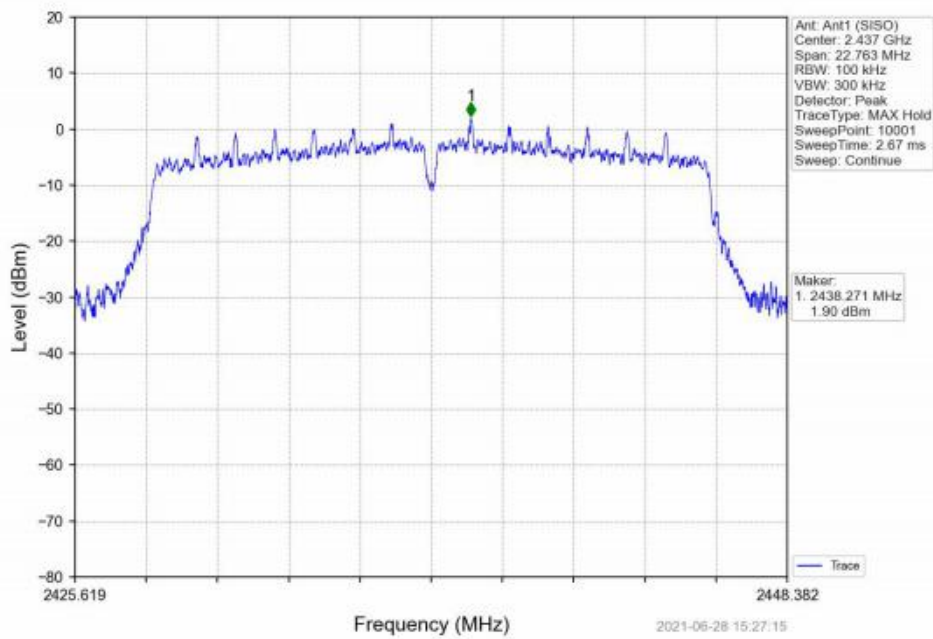
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

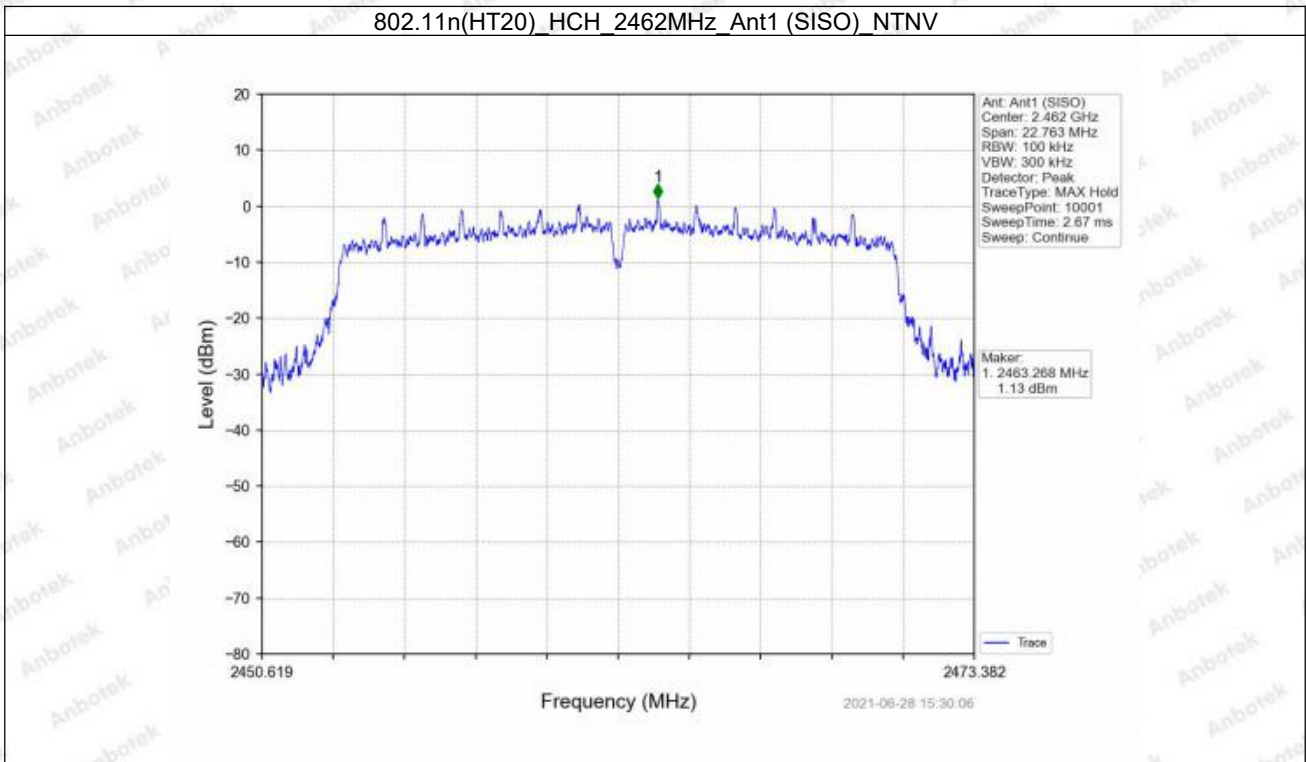


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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





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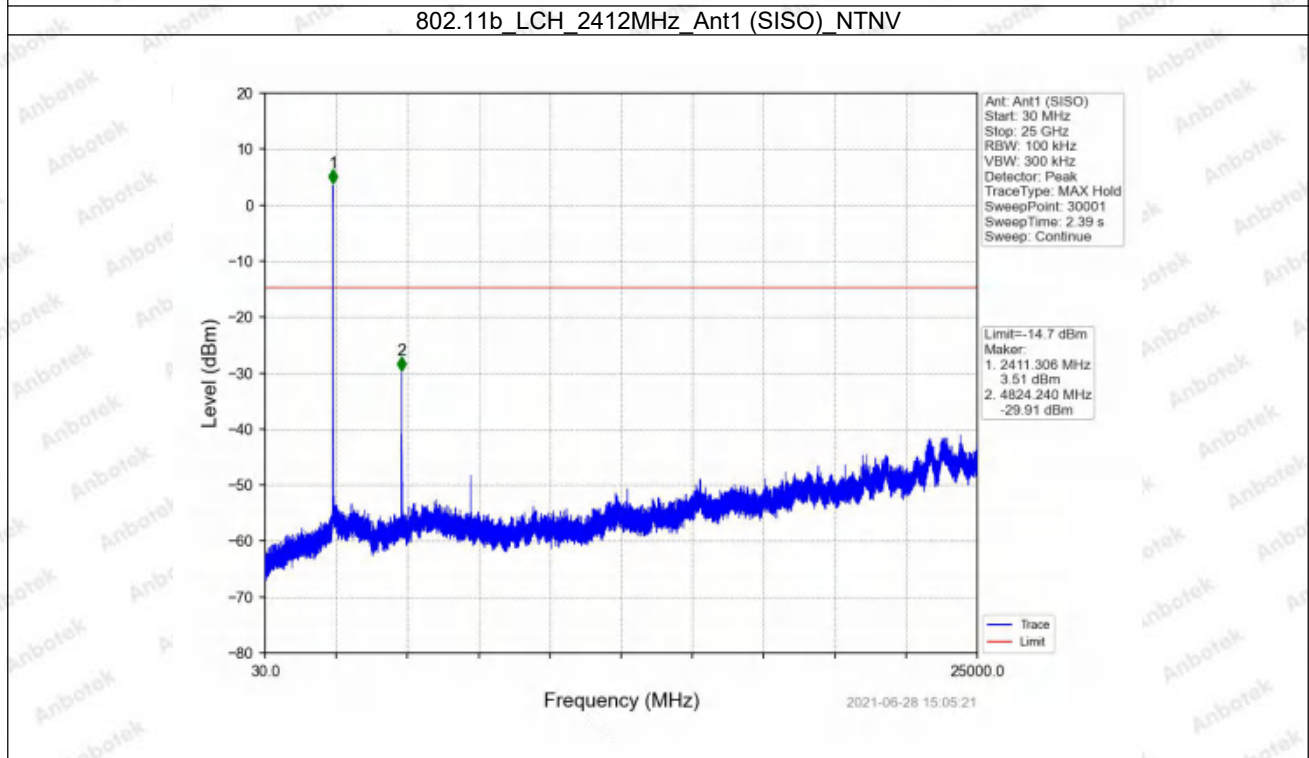
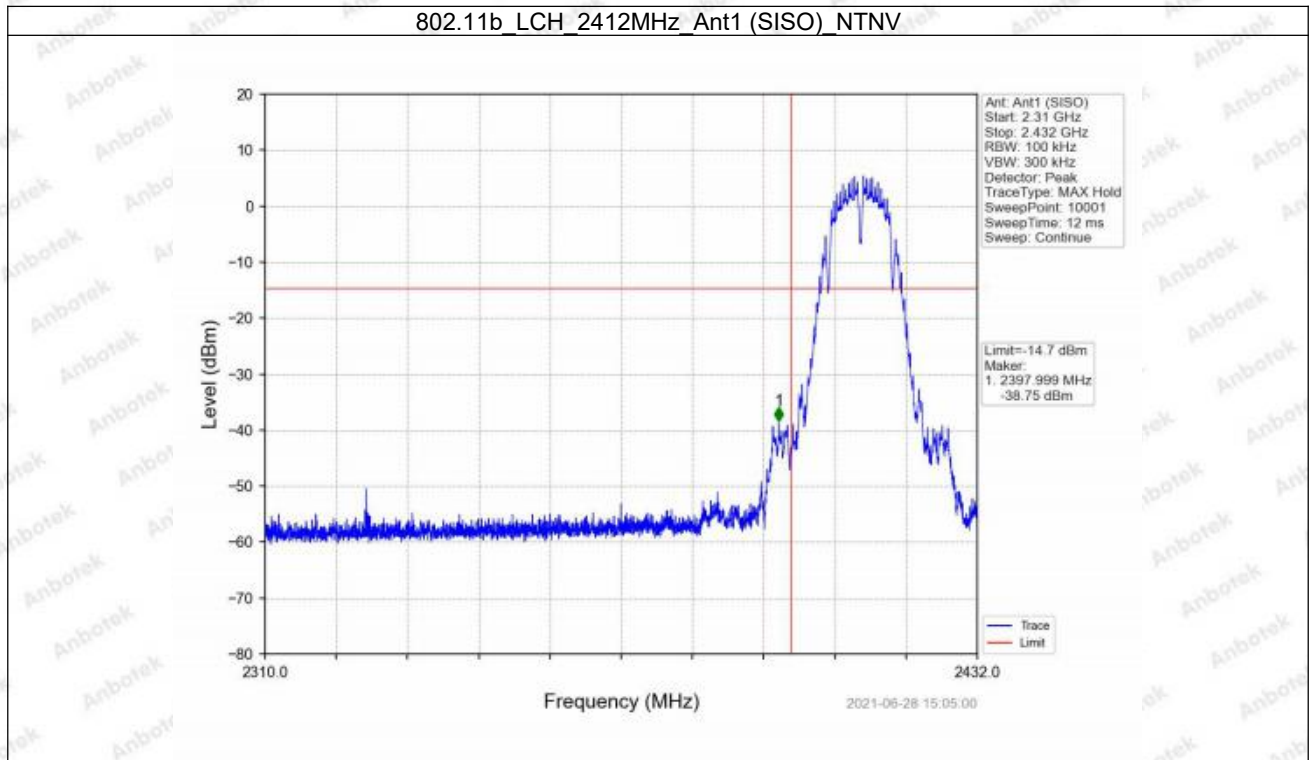
## 5.2 CSE

### 5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass

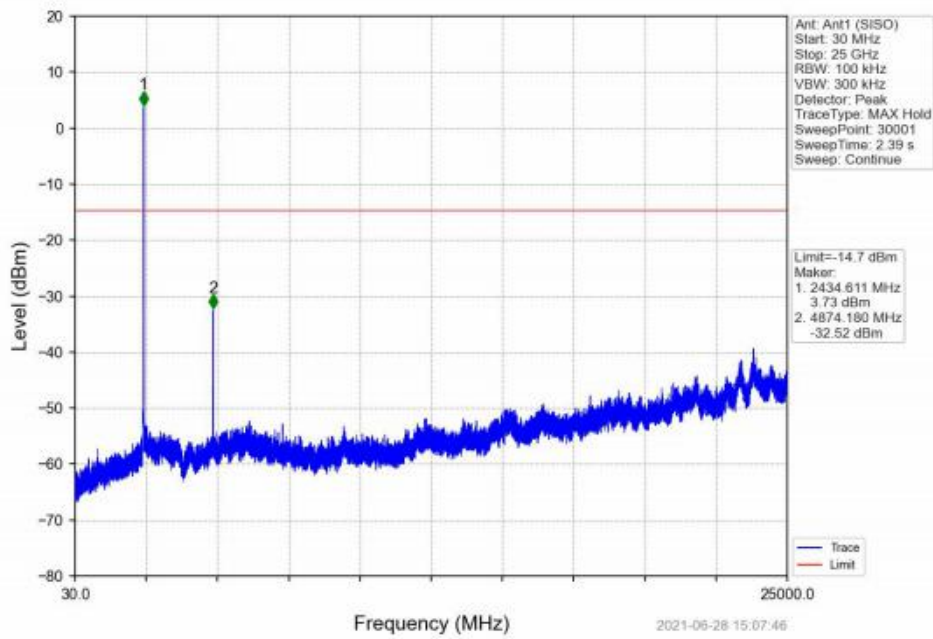
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph

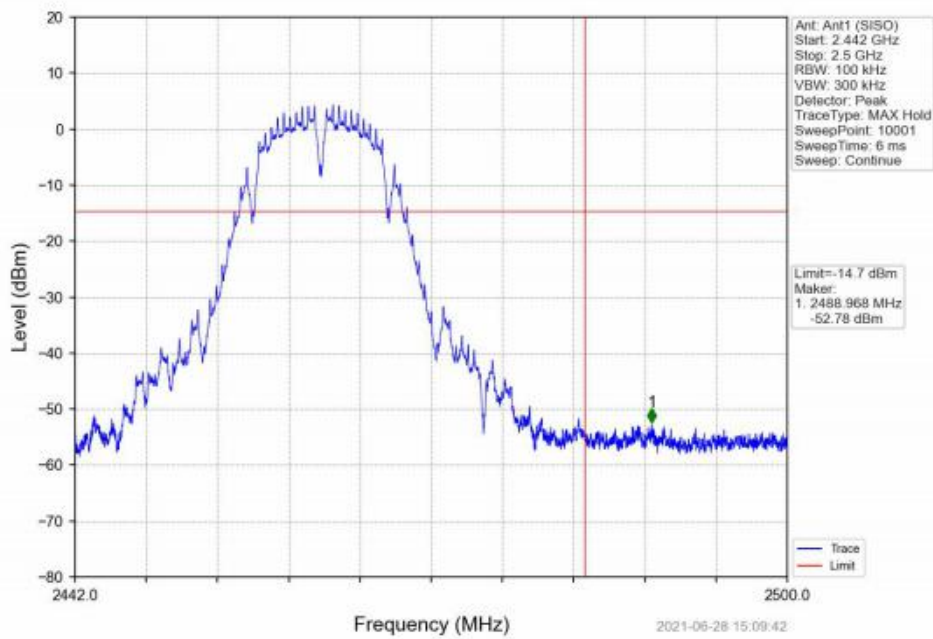




802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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

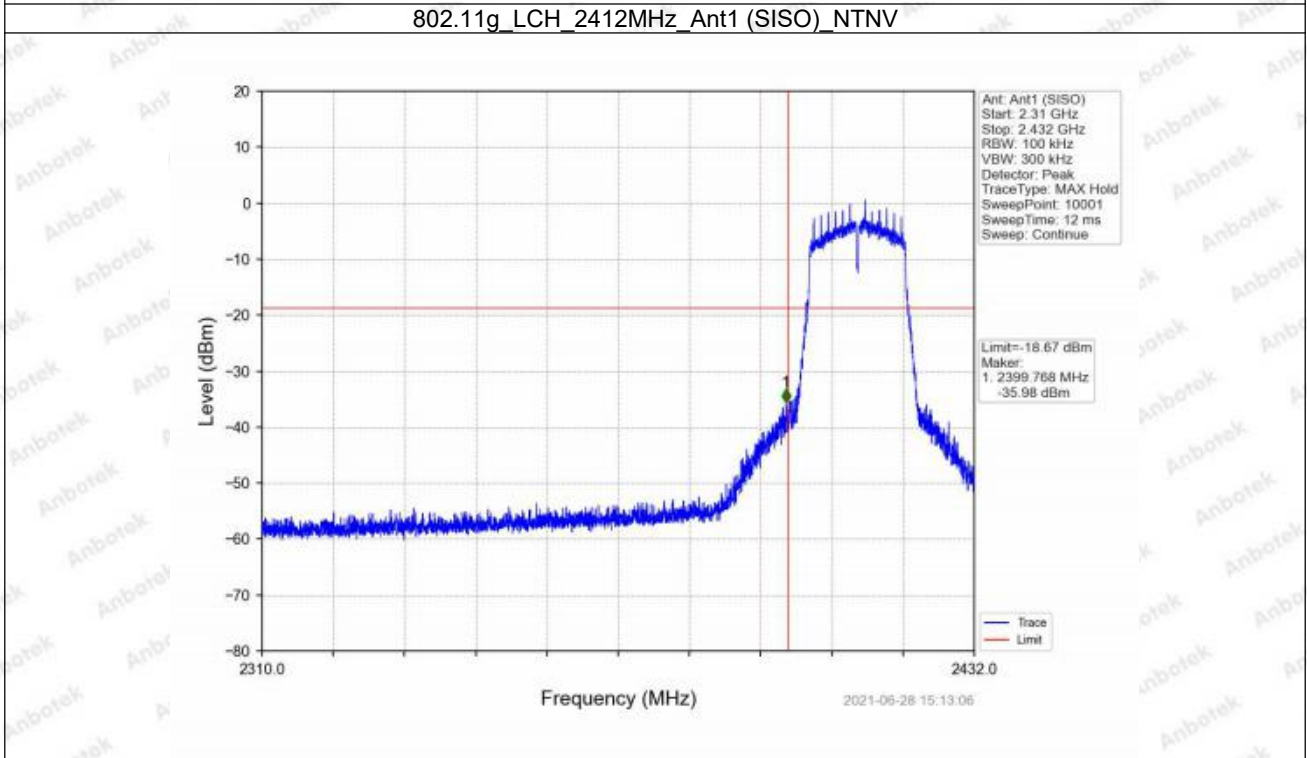
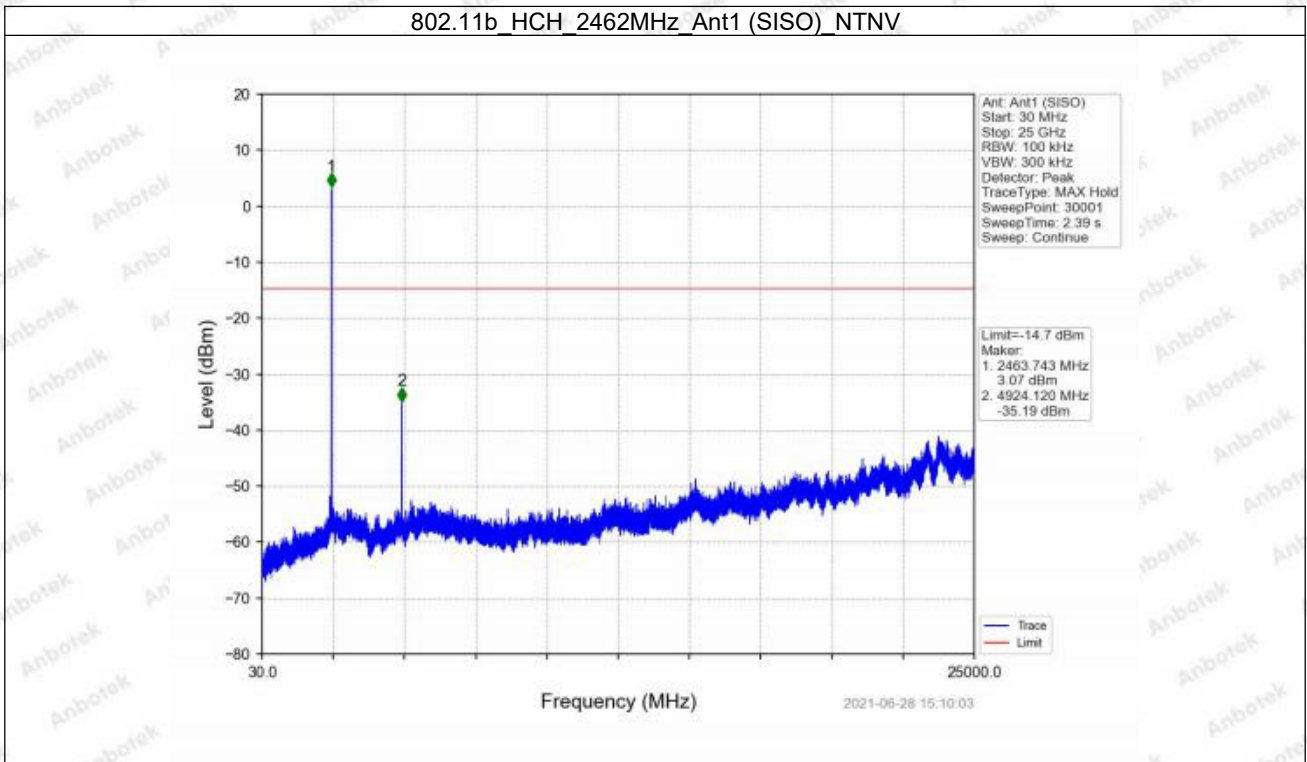


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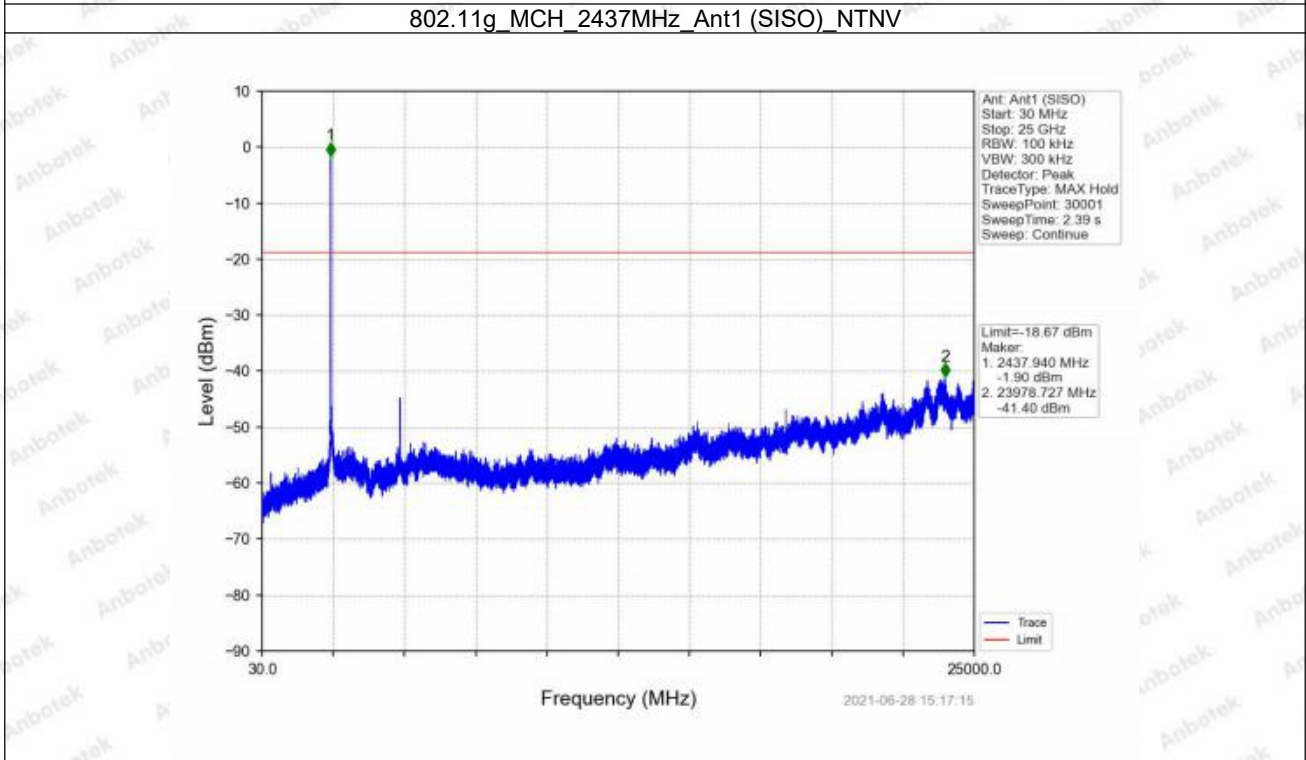
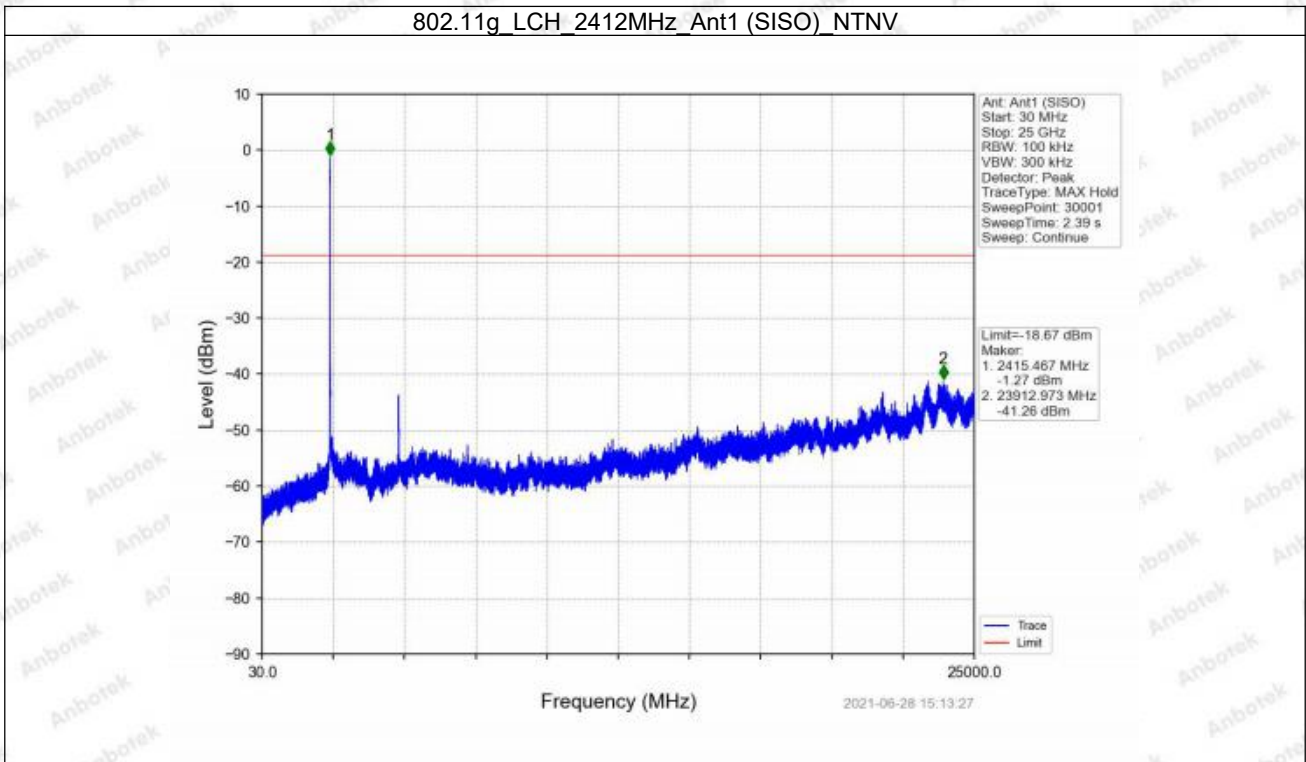
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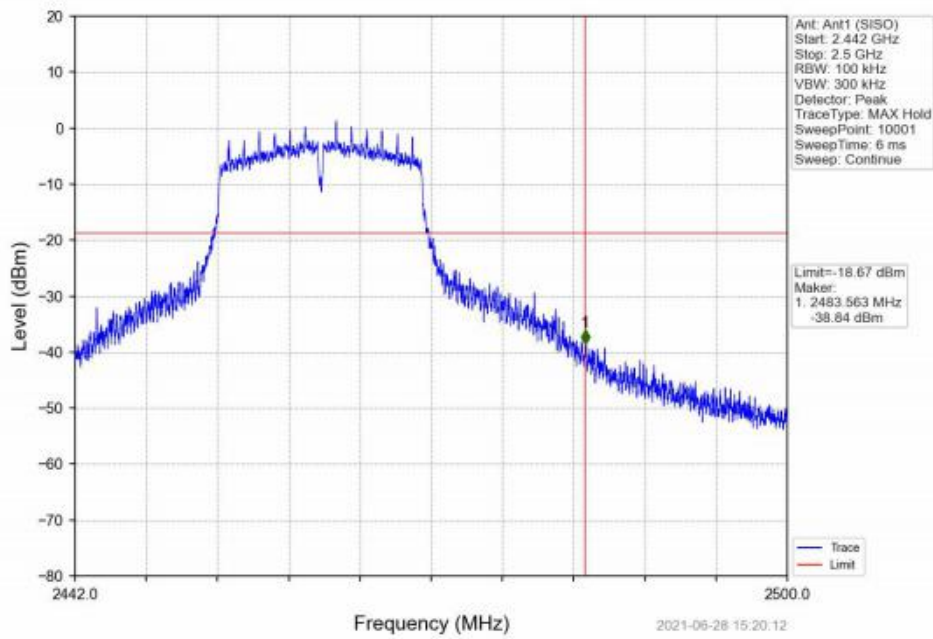


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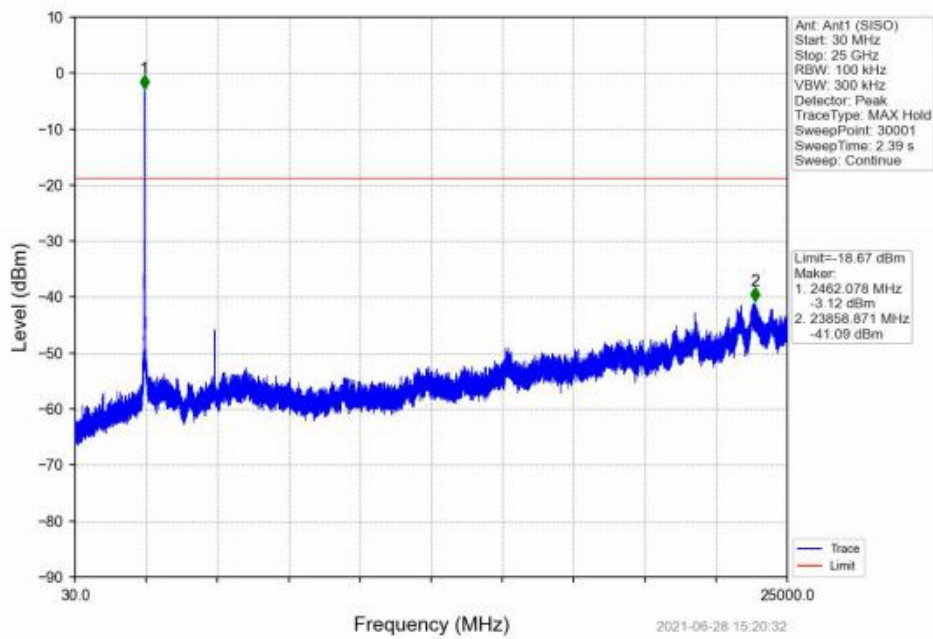
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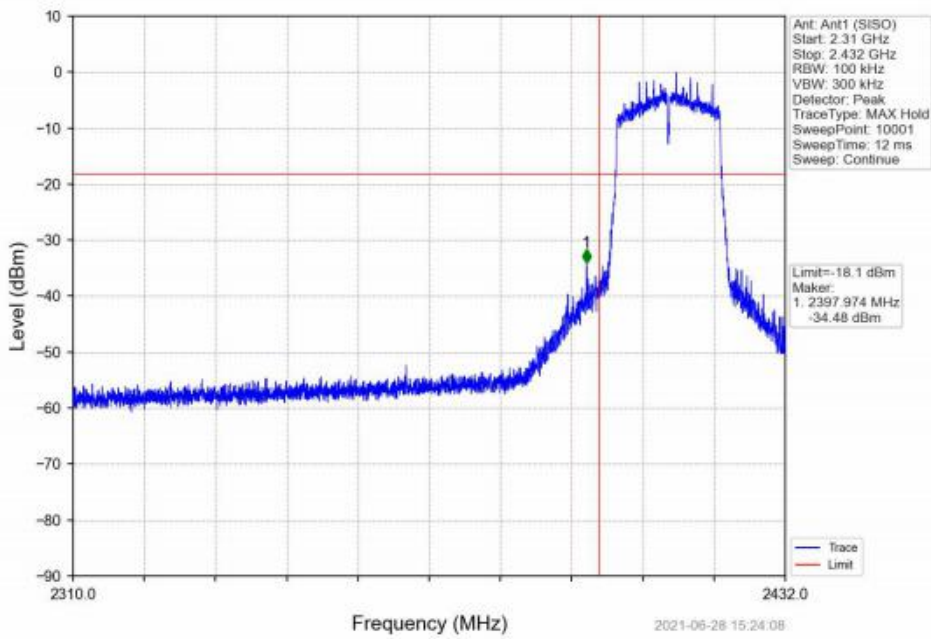
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



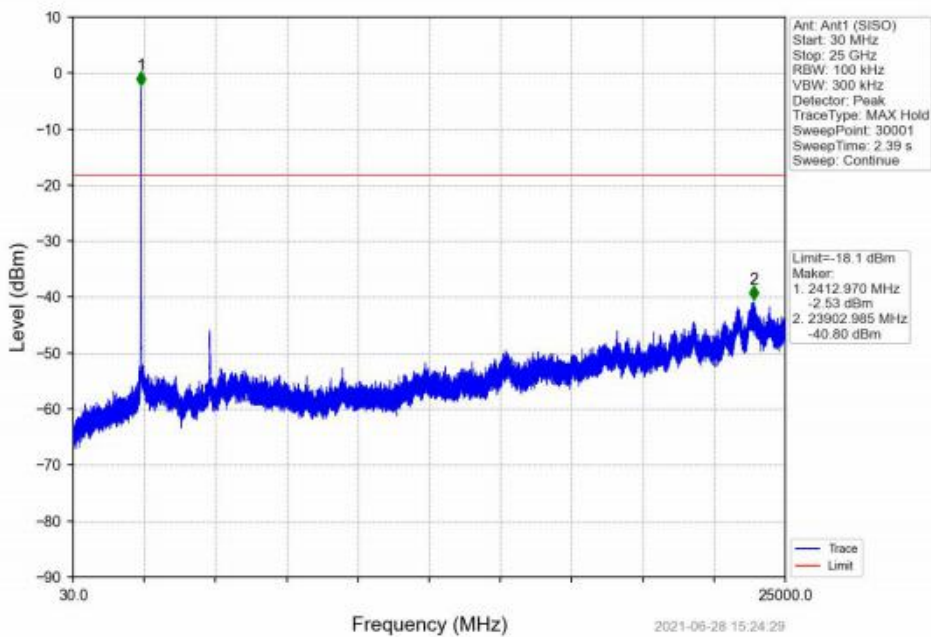
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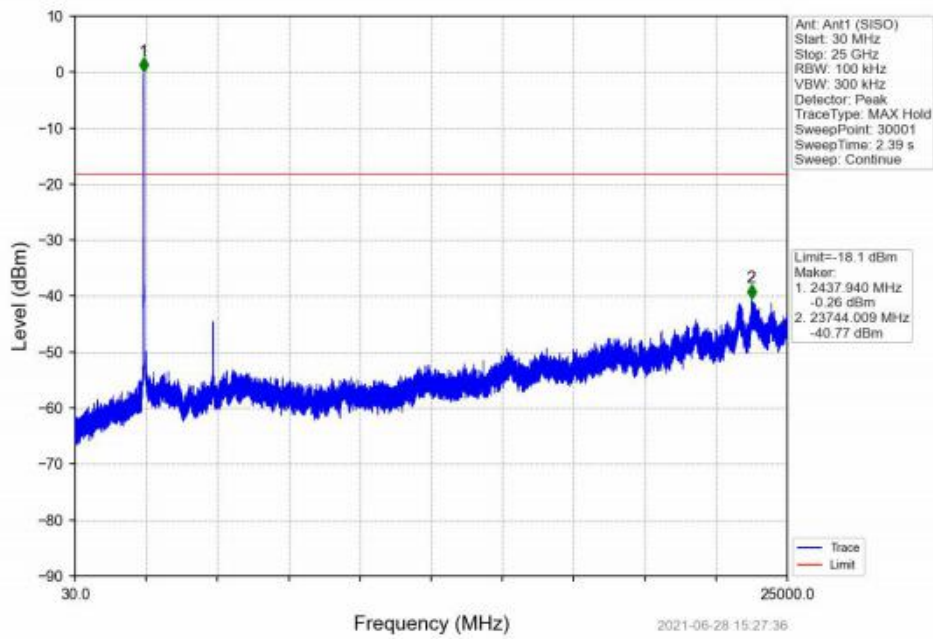
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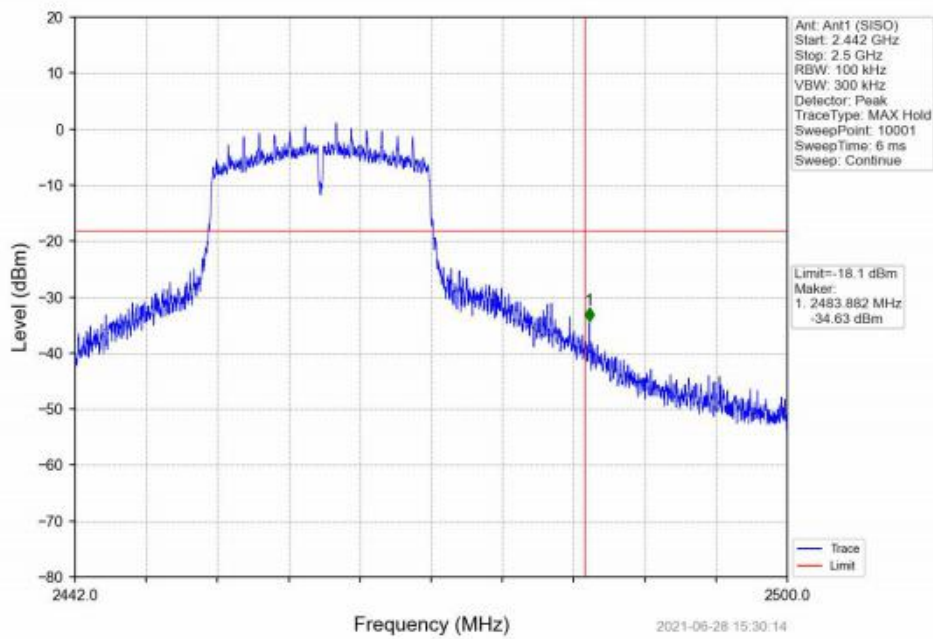
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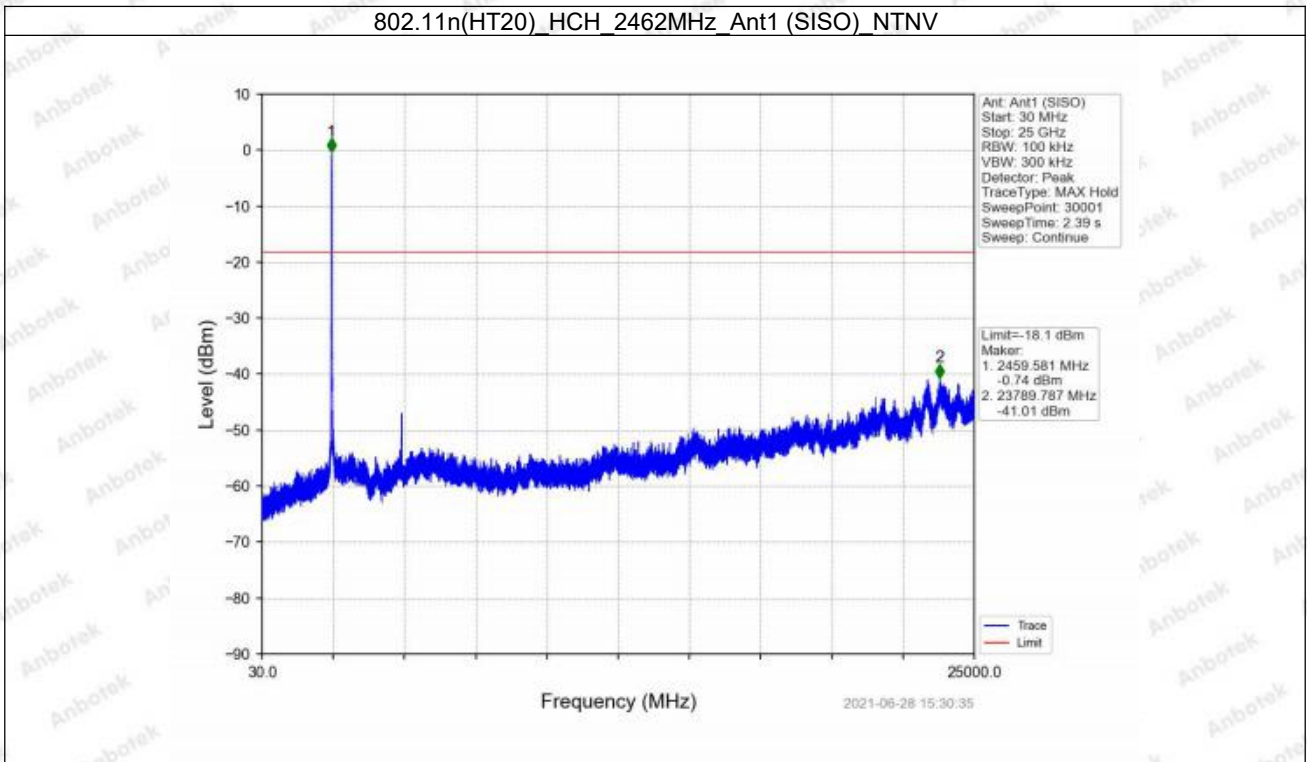


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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





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