

## Appendix Test Data

Report No.:	18220WC10144701	Test Date:	2021.7.1
Test Engineer:	<i>Jomy He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.5°C	Relative Humidity:	55.2 %
Pressure:	1012 hPa		

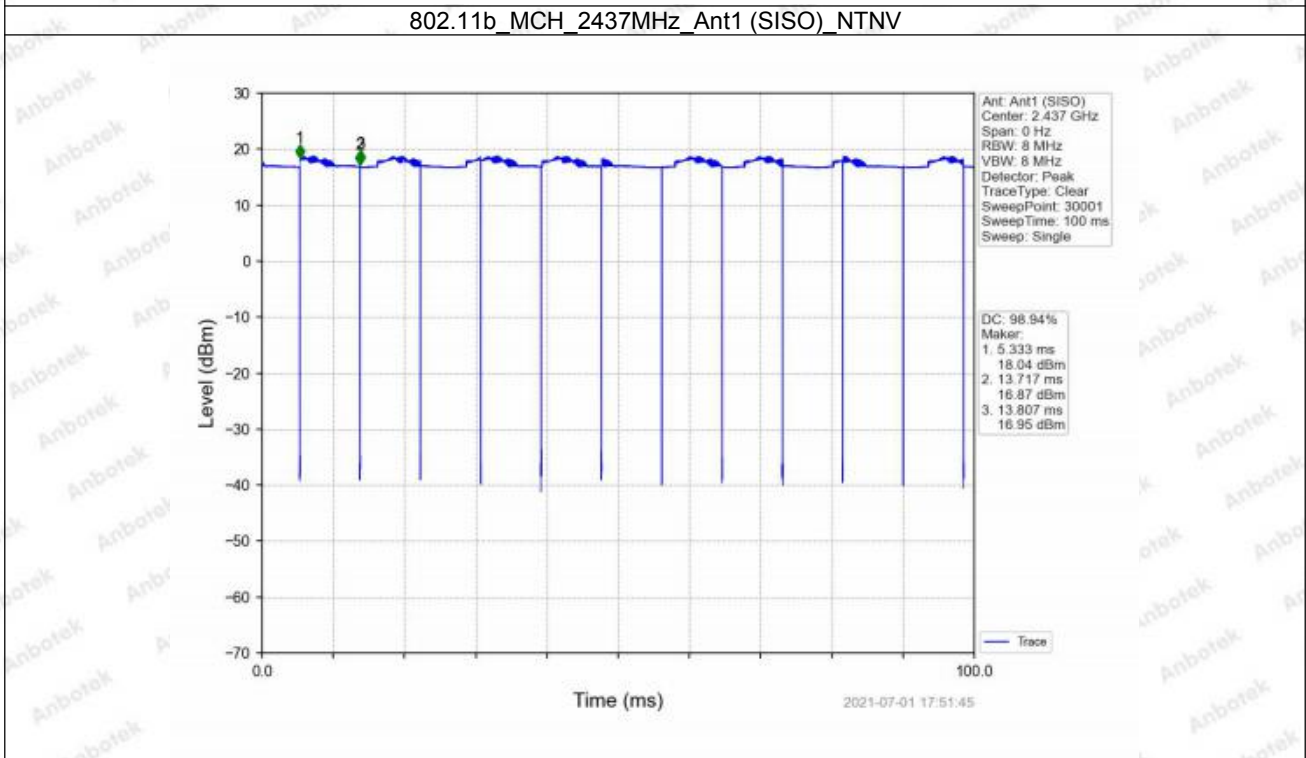
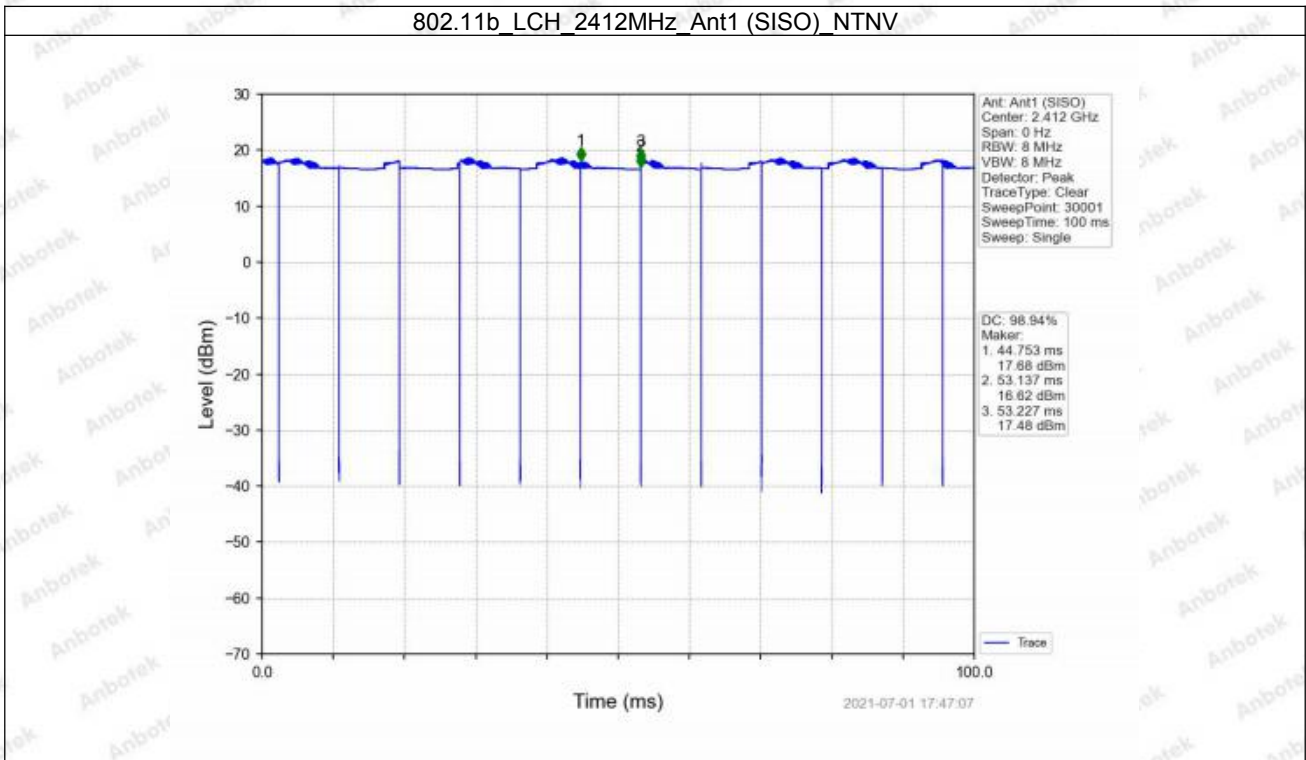
### 1. Duty Cycle

#### 1.1 Ant1

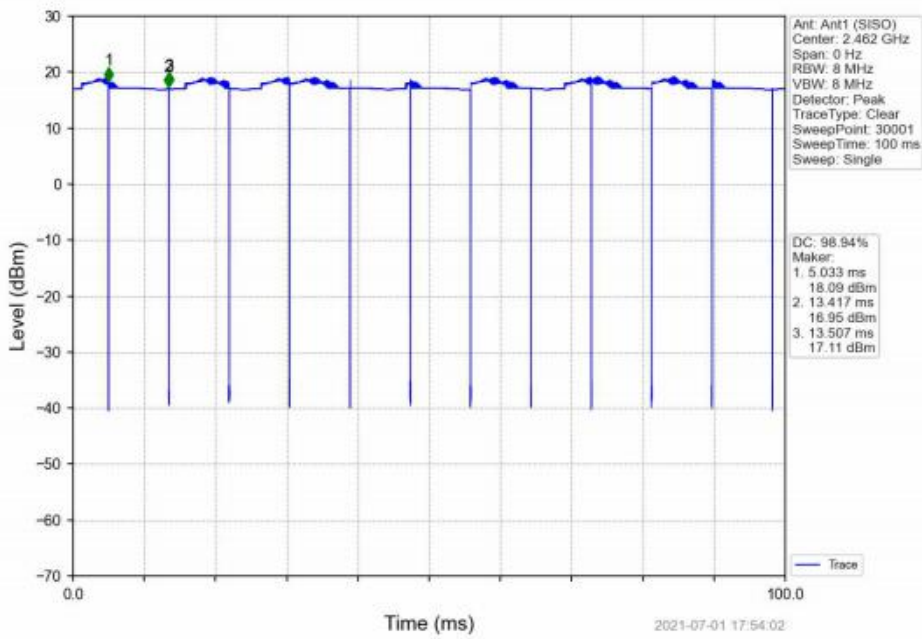
##### 1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T <sub>on</sub> (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.38	8.47	98.94	0.05	0.04
		2437	/	/	8.38	8.47	98.94	0.05	0.04
		2462	/	/	8.38	8.47	98.94	0.05	0.04
802.11g	SISO	2412	/	/	1.39	1.41	98.72	0.06	0.03
		2437	/	/	1.39	1.41	98.72	0.06	0.03
		2462	/	/	1.39	1.41	98.72	0.06	0.03
802.11n (HT20)	SISO	2412	/	/	1.30	1.32	98.71	0.06	0.03
		2437	/	/	1.30	1.32	98.71	0.06	0.03
		2462	/	/	1.30	1.32	98.71	0.06	0.03
802.11n (HT40)	SISO	2422	/	/	0.65	0.66	98.48	0.07	0.03
		2437	/	/	0.65	0.66	98.48	0.07	0.00
		2452	/	/	0.65	0.66	98.63	0.06	0.07

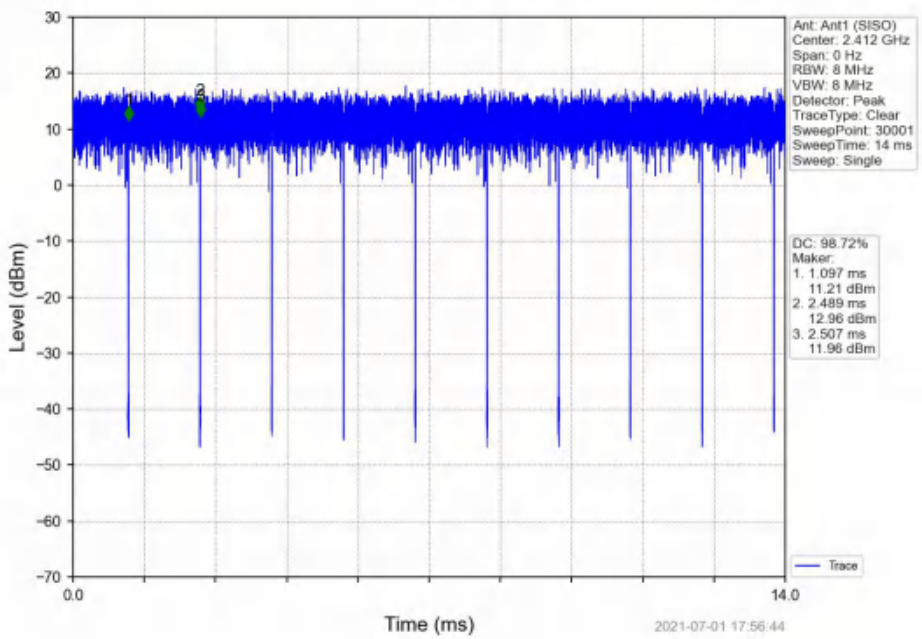
1.1.2 Test Graph



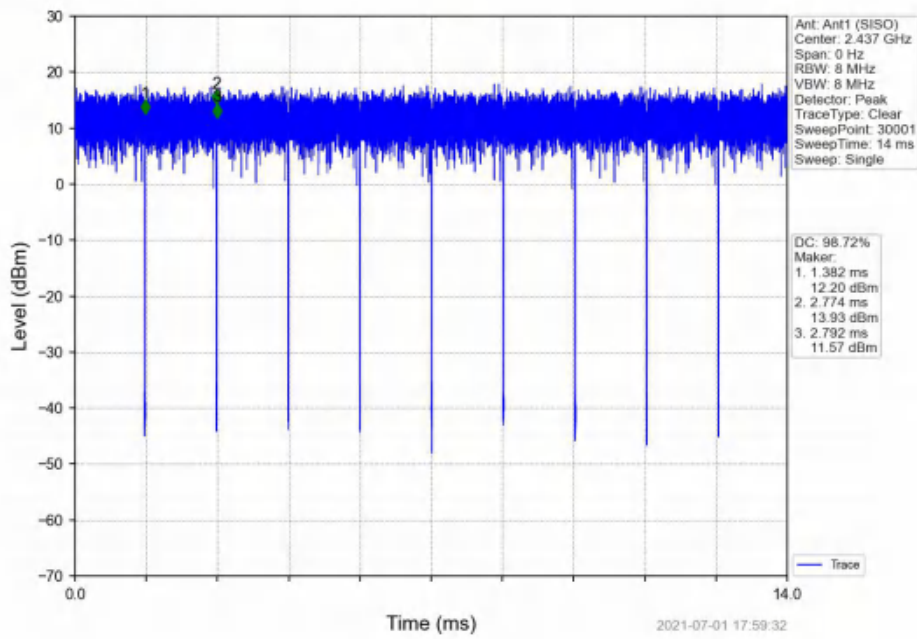
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



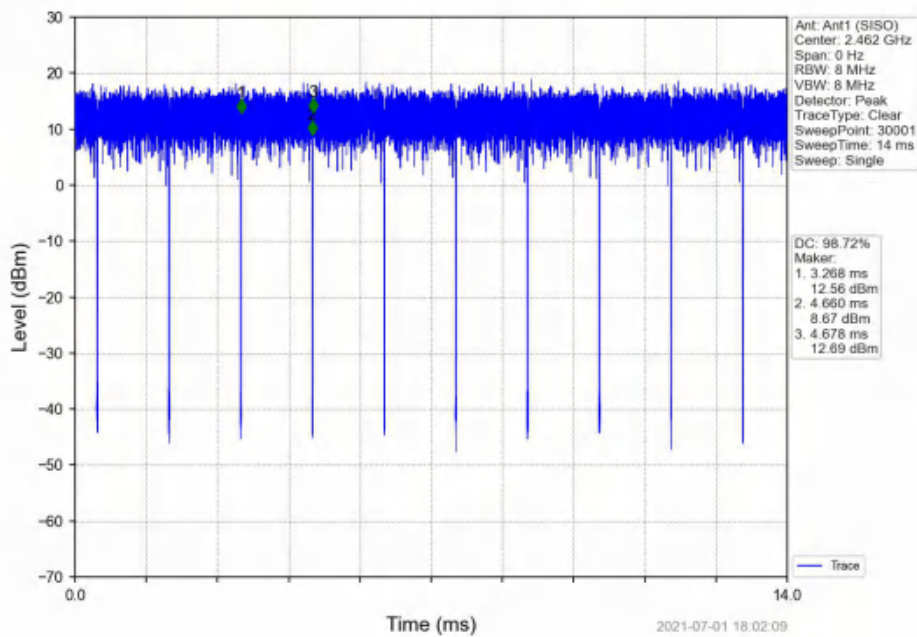
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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



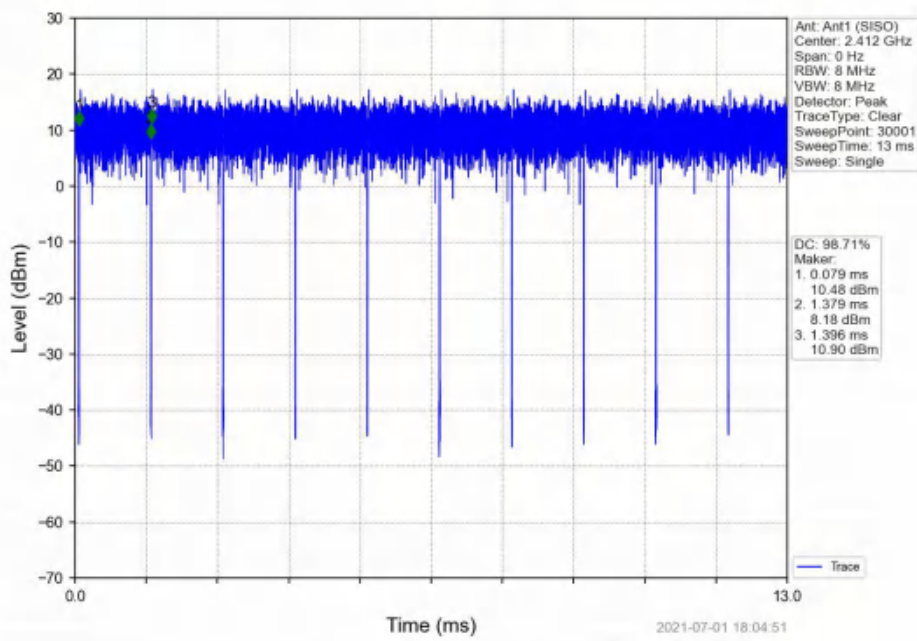
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

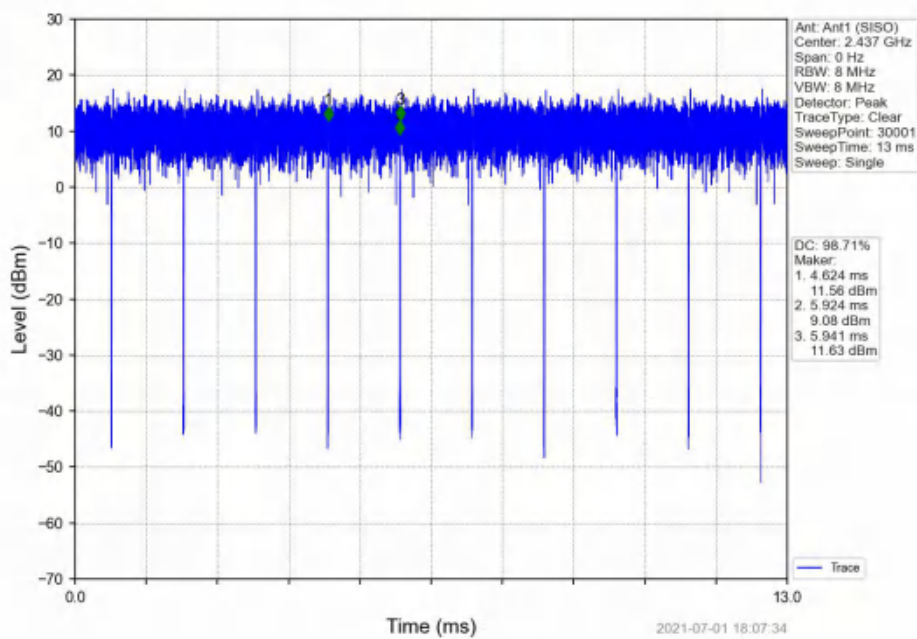
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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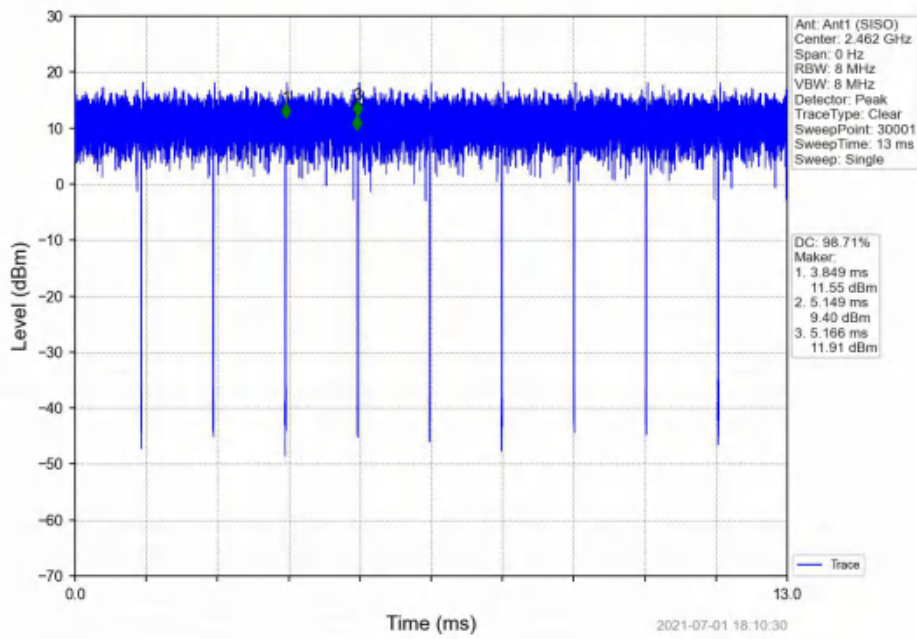
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



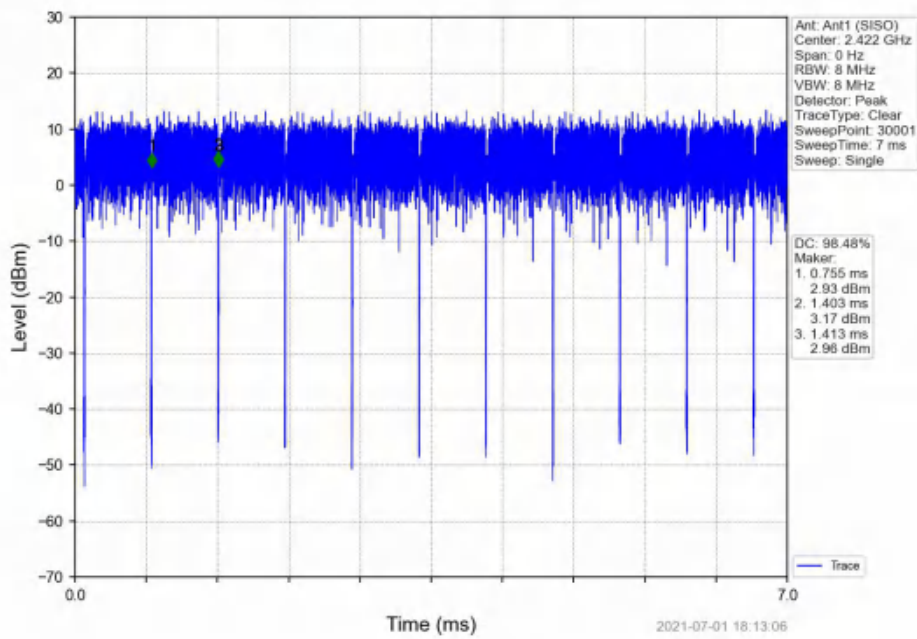
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



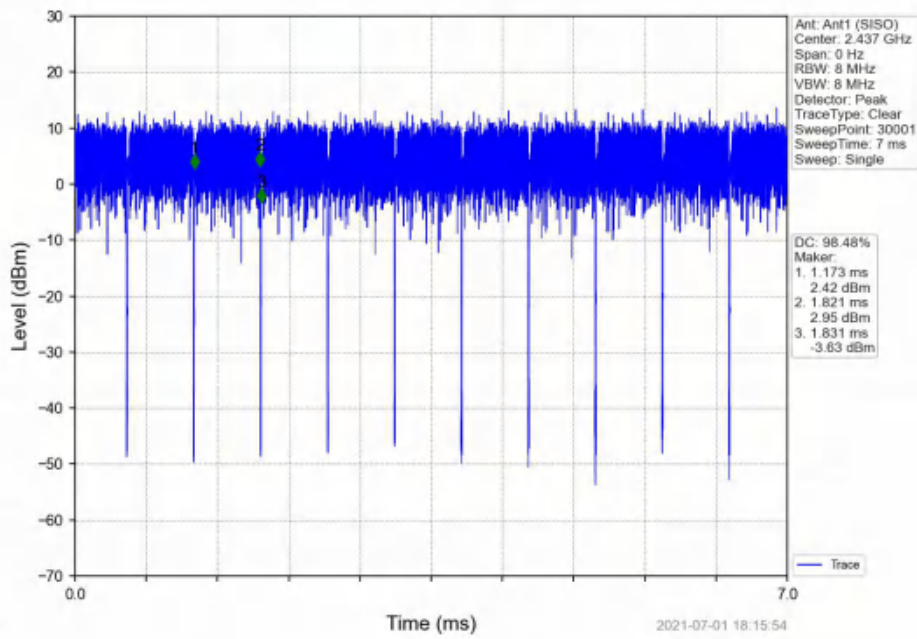
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



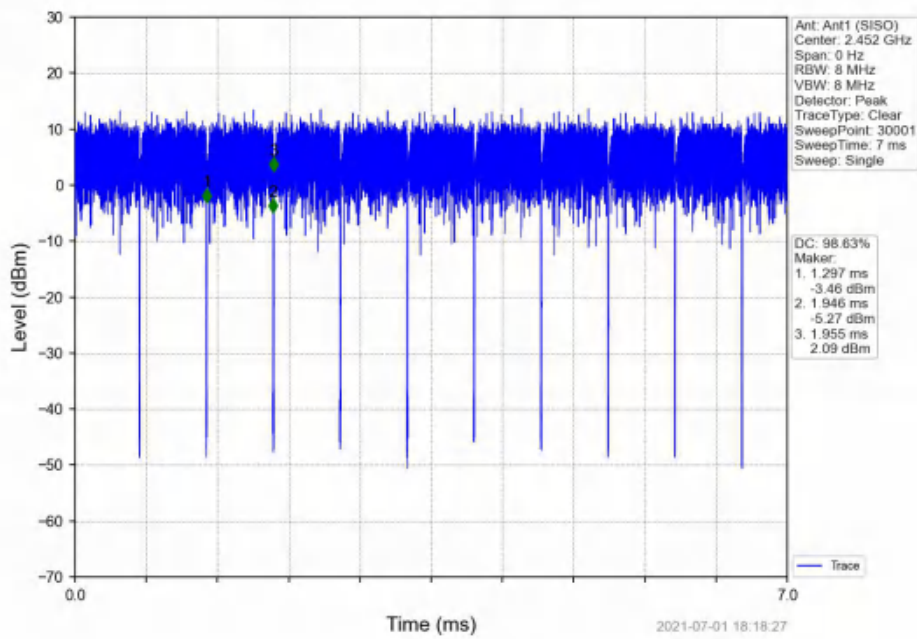
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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



## 2. Bandwidth

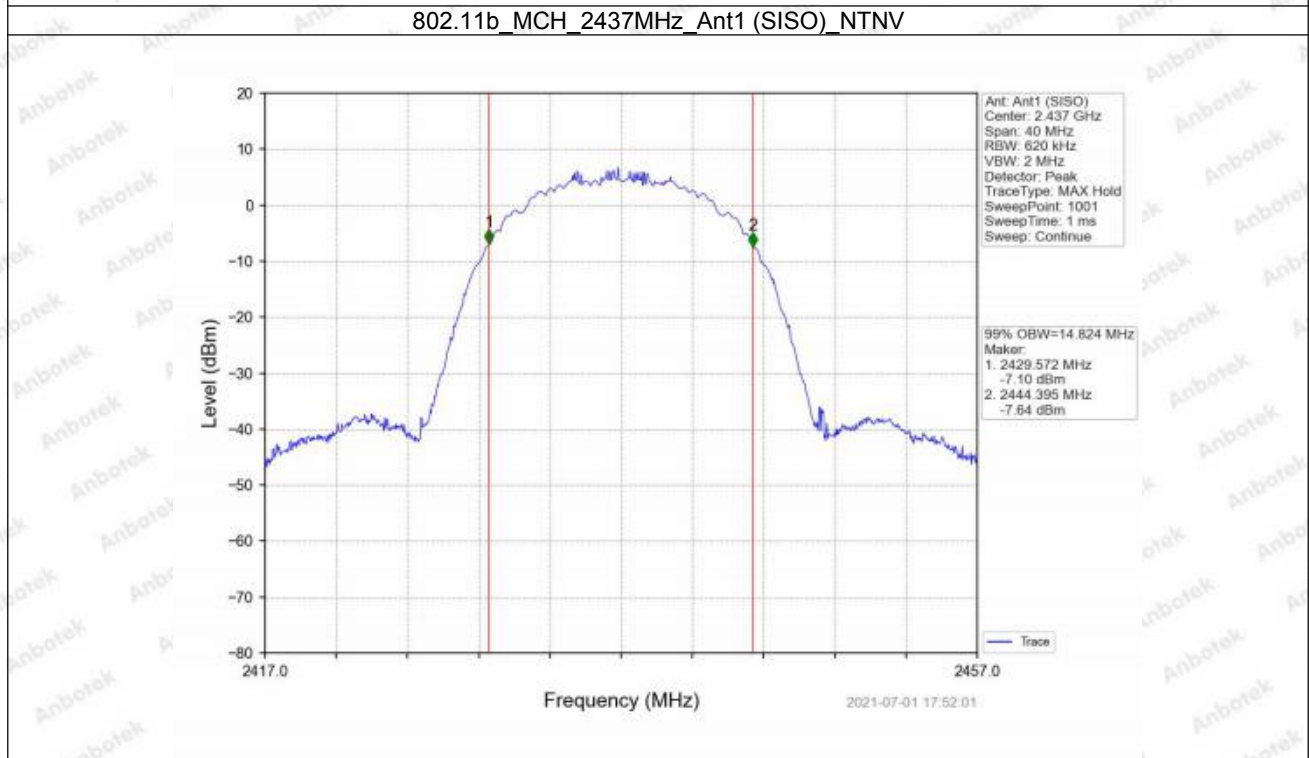
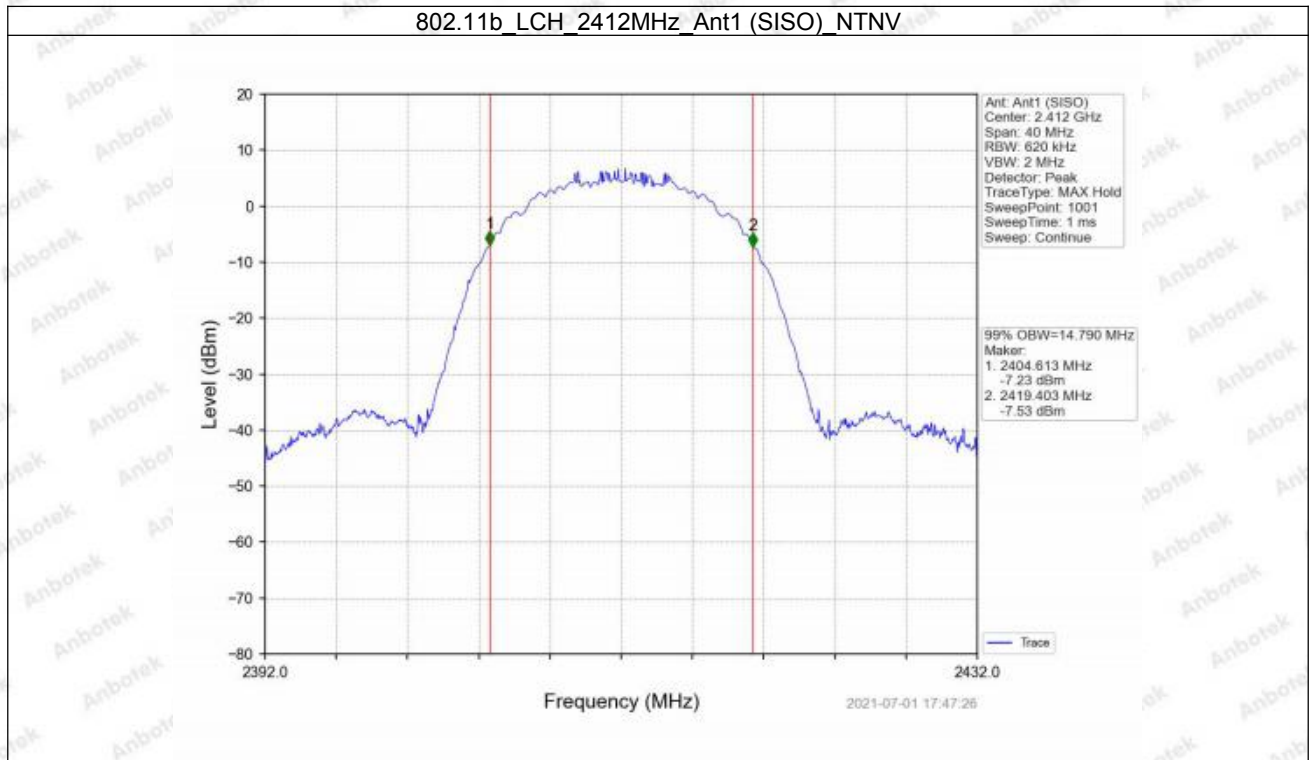
### 2.1 OBW

#### 2.1.1 Test Result

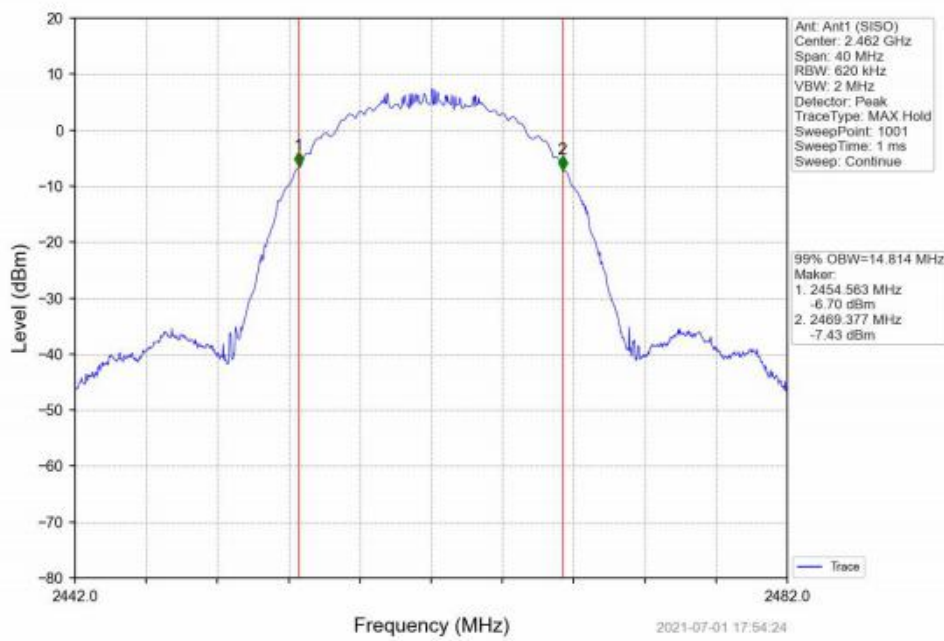
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	14.79	/	Pass
		2437	/	/	1	14.82	/	Pass
		2462	/	/	1	14.81	/	Pass
802.11g	SISO	2412	/	/	1	17.40	/	Pass
		2437	/	/	1	17.41	/	Pass
		2462	/	/	1	17.43	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	18.31	/	Pass
		2437	/	/	1	18.32	/	Pass
		2462	/	/	1	18.32	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.53	/	Pass
		2437	/	/	1	35.53	/	Pass
		2452	/	/	1	35.55	/	Pass



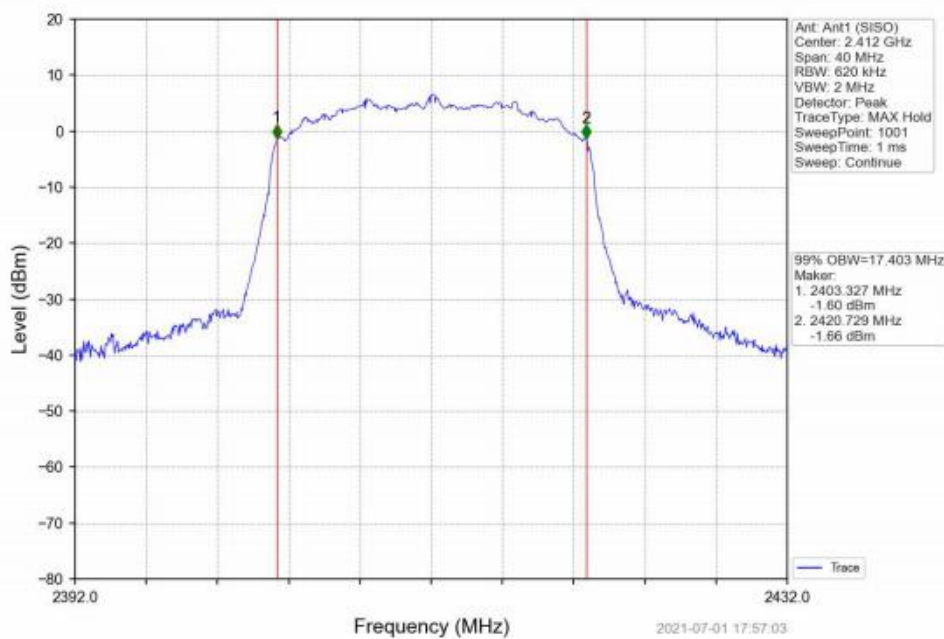
2.1.2 Test Graph



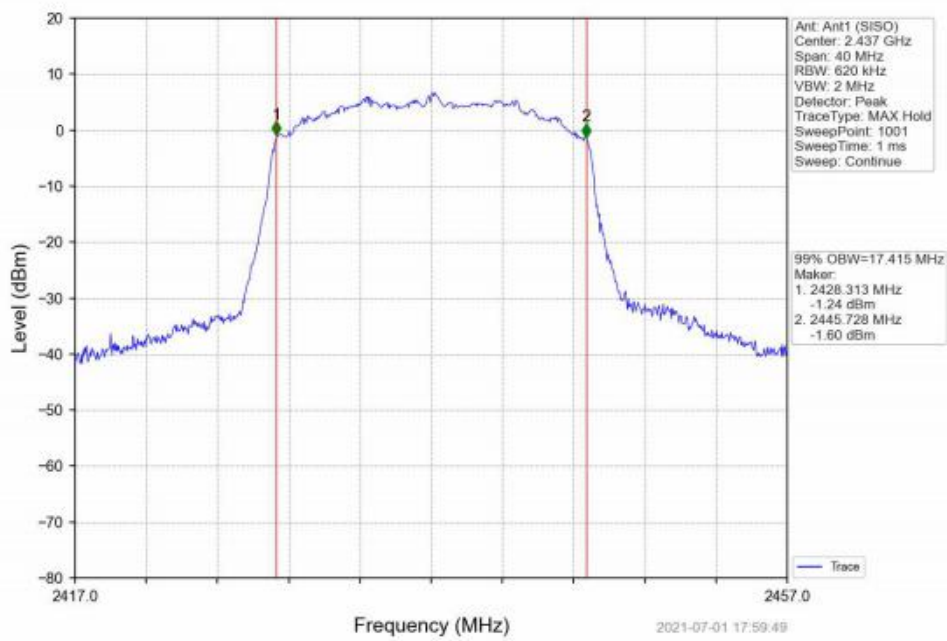
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



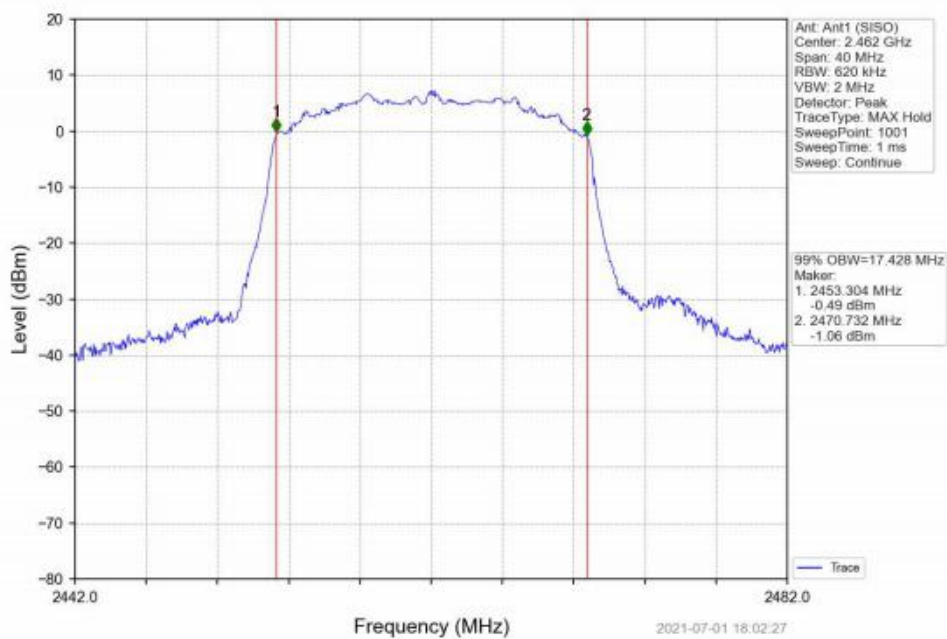
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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



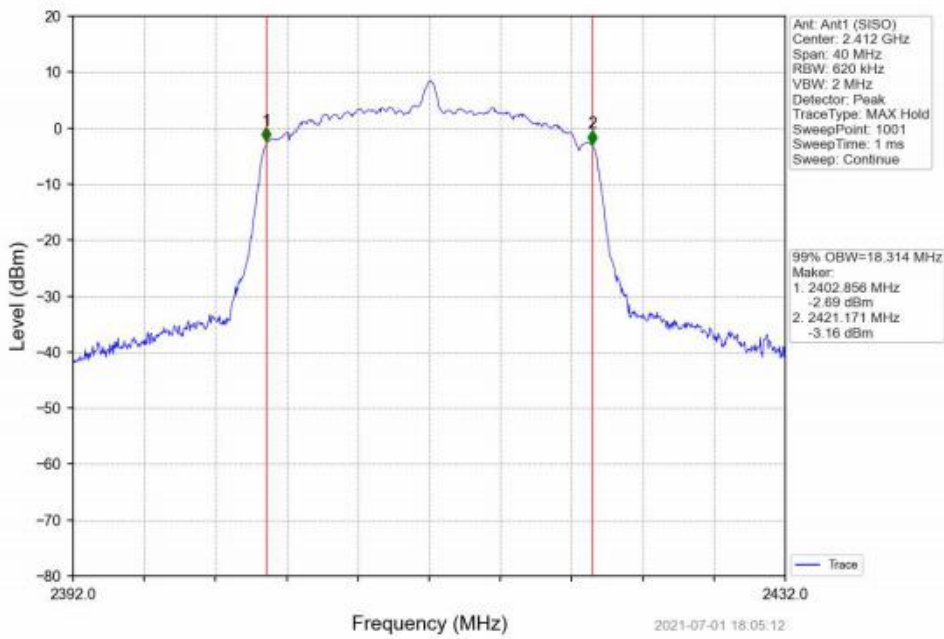
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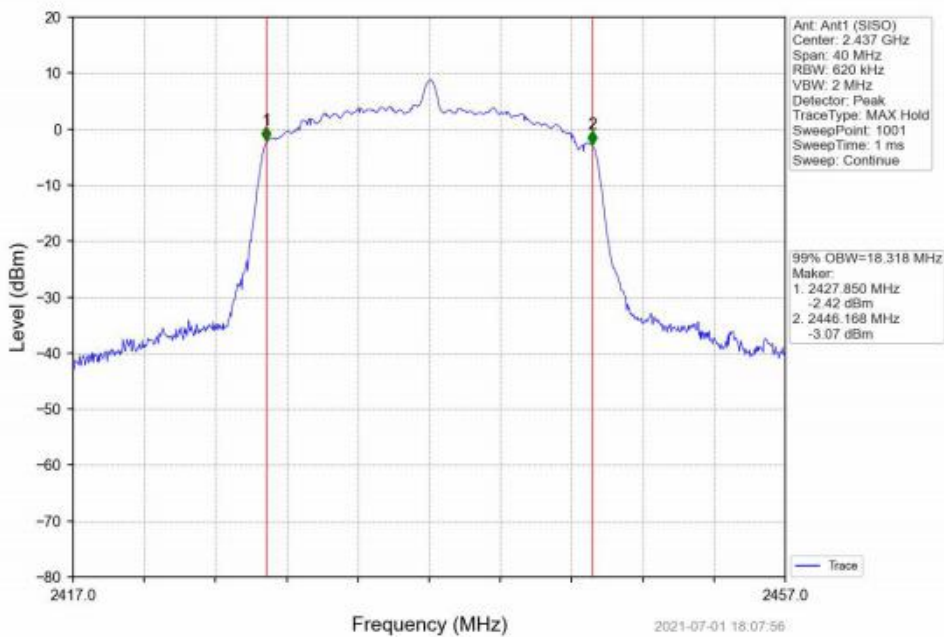
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



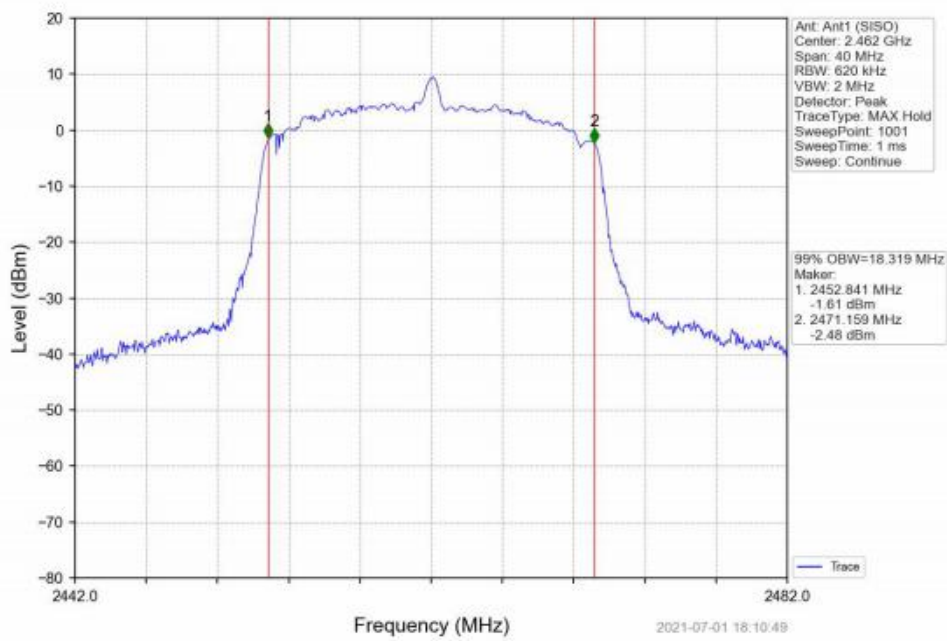
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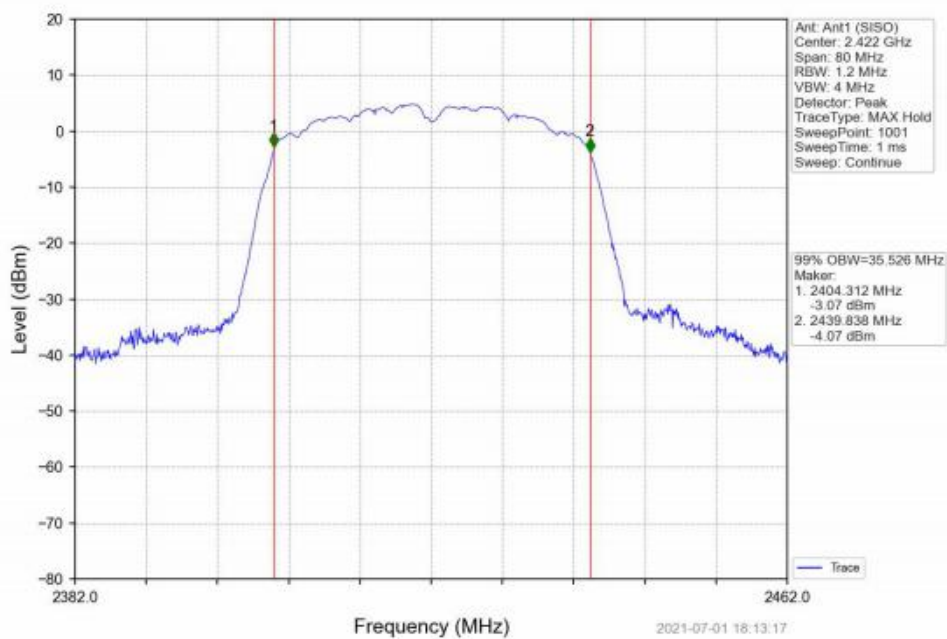
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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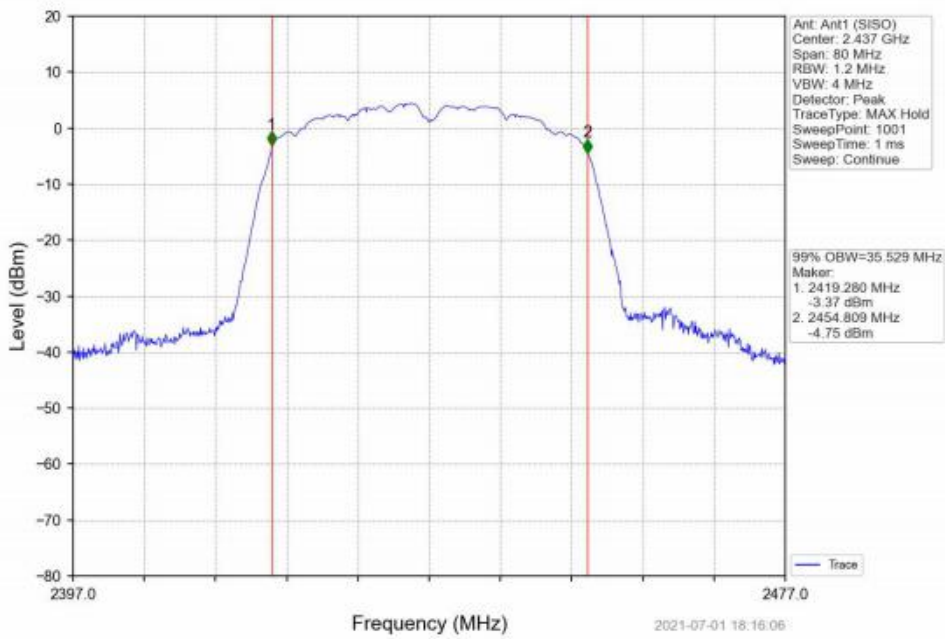
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



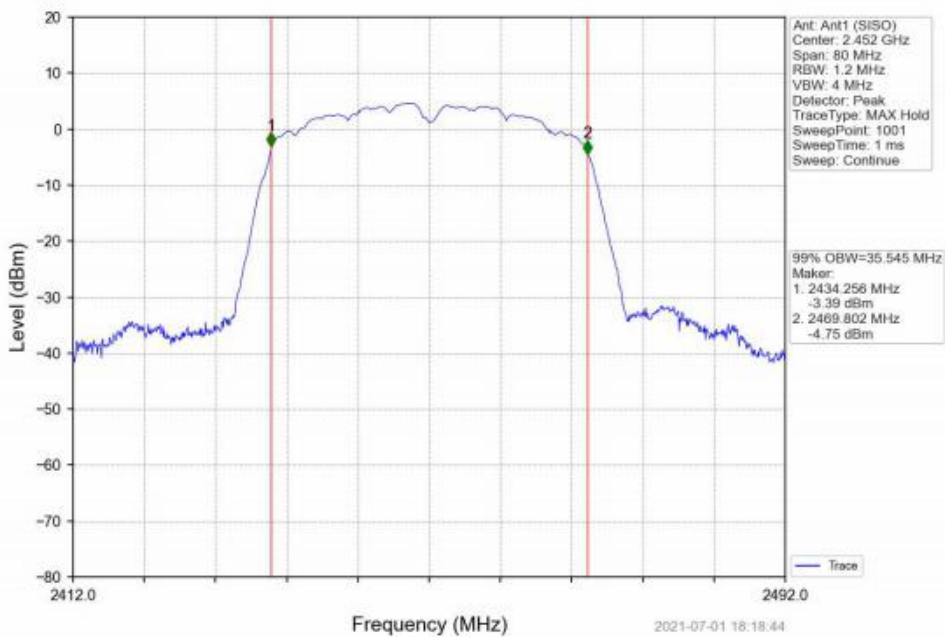
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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

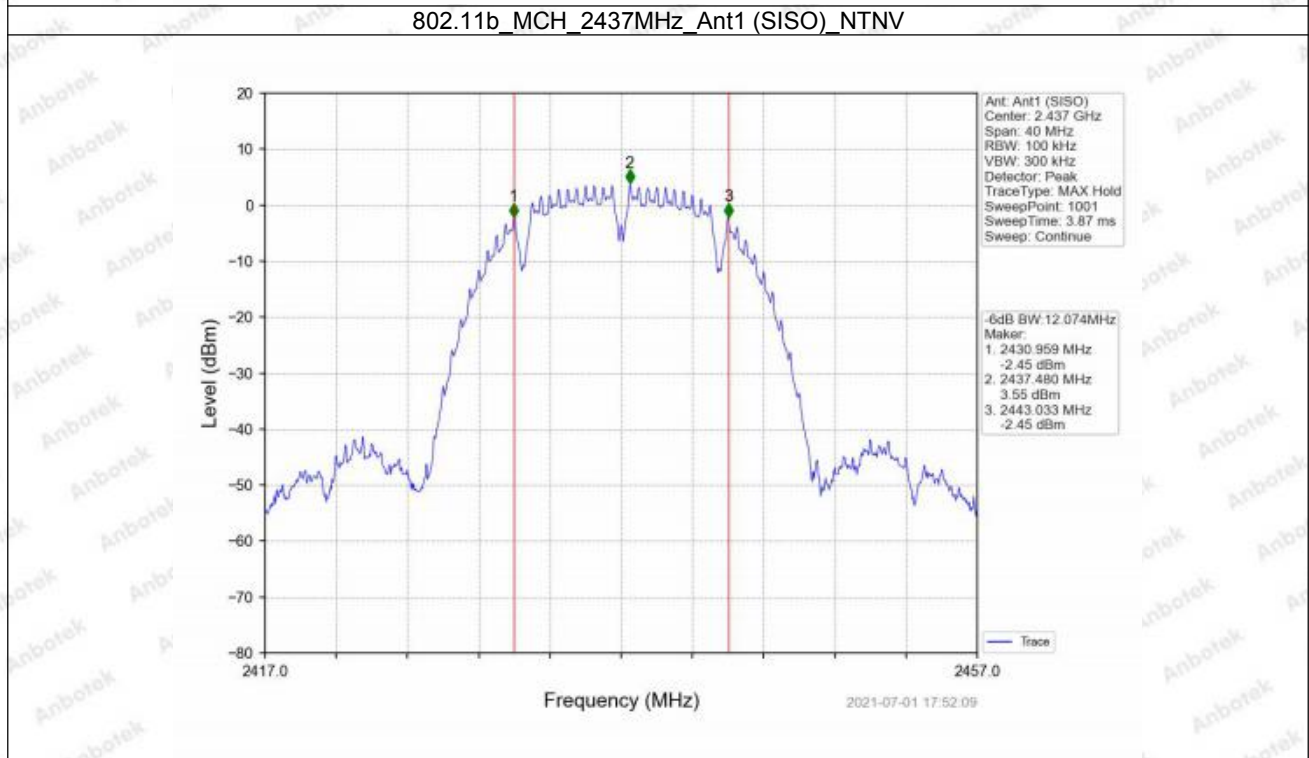
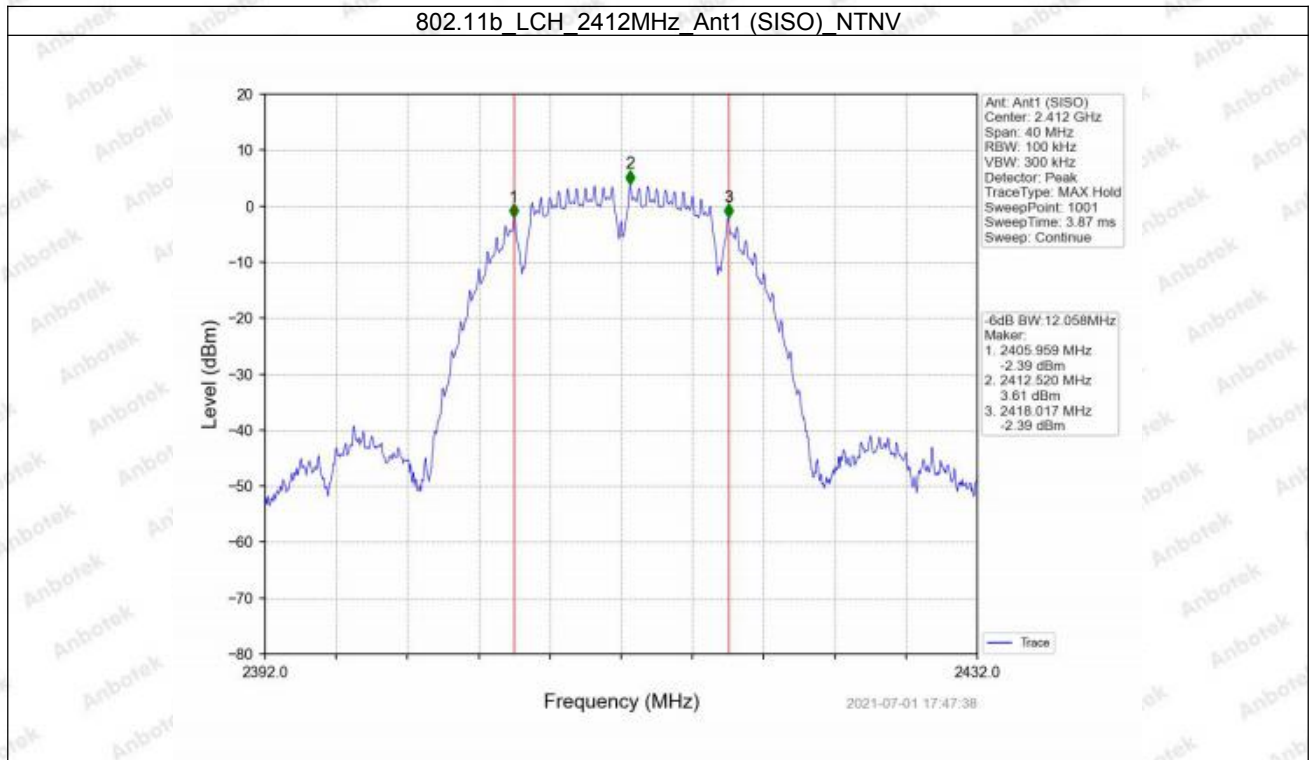


## 2.2 6dB BW

### 2.2.1 Test Result

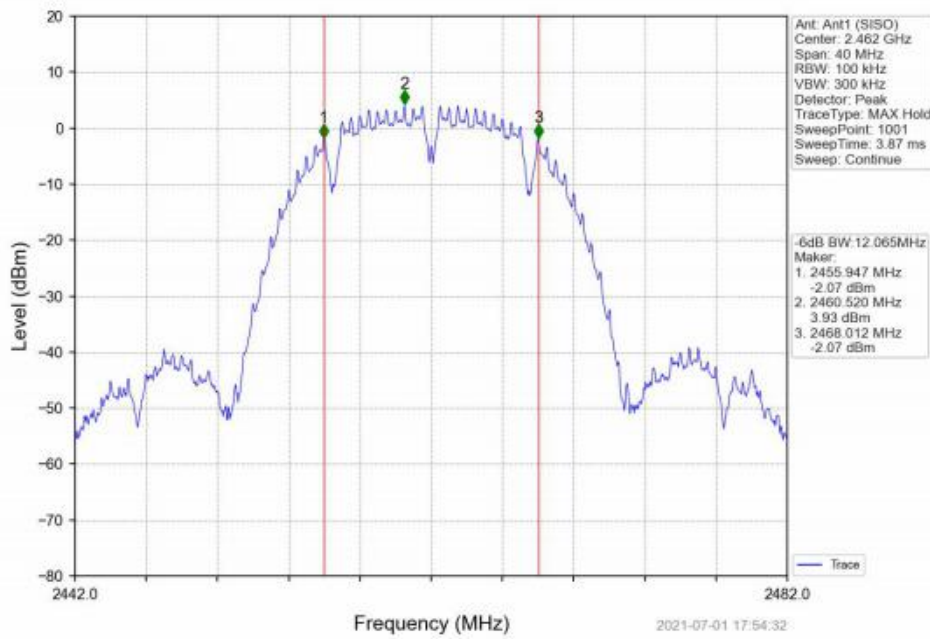
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	12.06	>=0.5	Pass
		2437	/	/	1	12.07	>=0.5	Pass
		2462	/	/	1	12.06	>=0.5	Pass
802.11g	SISO	2412	/	/	1	15.15	>=0.5	Pass
		2437	/	/	1	15.14	>=0.5	Pass
		2462	/	/	1	15.13	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	12.59	>=0.5	Pass
		2437	/	/	1	12.58	>=0.5	Pass
		2462	/	/	1	11.35	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.02	>=0.5	Pass
		2437	/	/	1	33.82	>=0.5	Pass
		2452	/	/	1	33.84	>=0.5	Pass

2.2.2 Test Graph

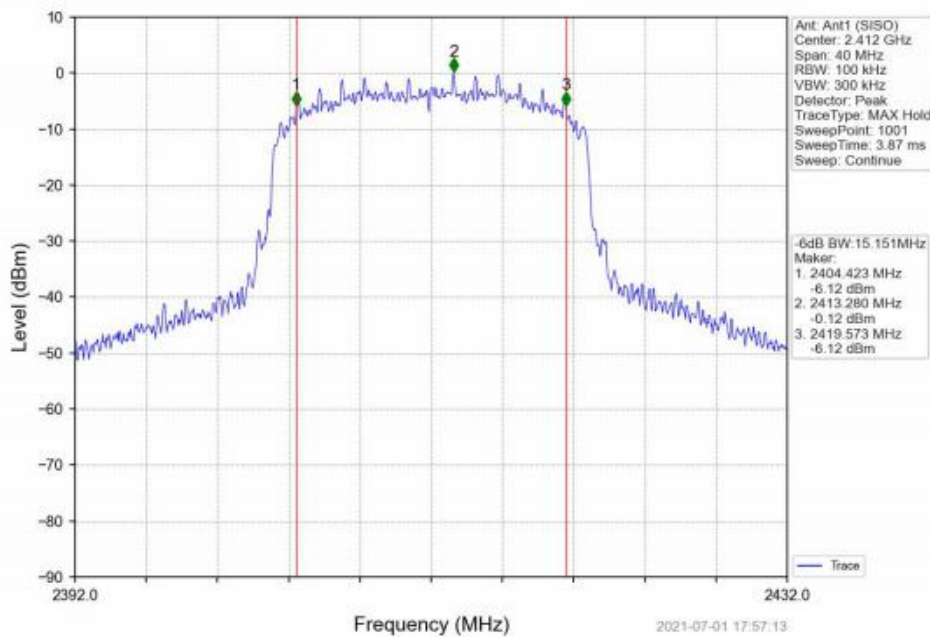




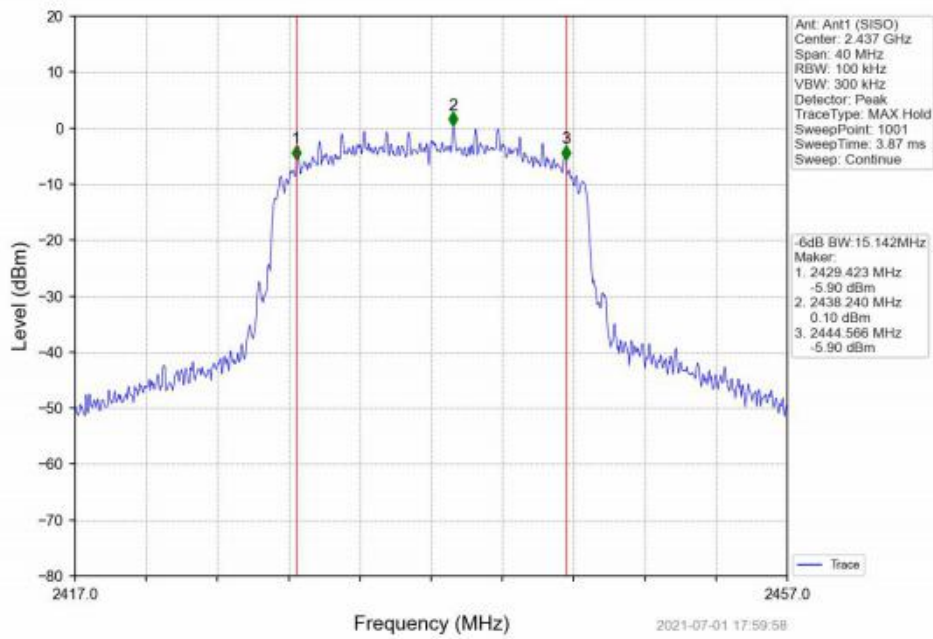
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



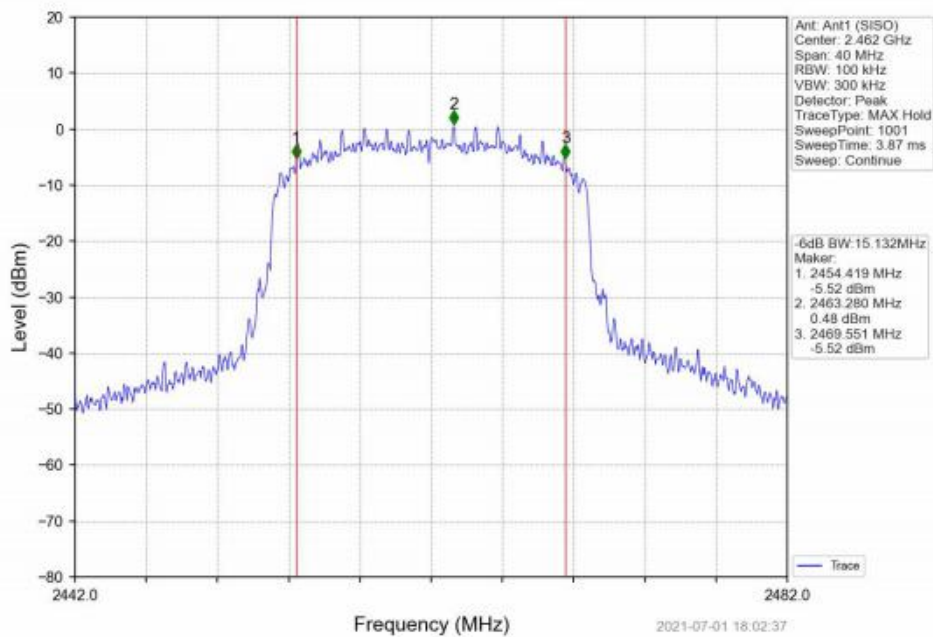
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



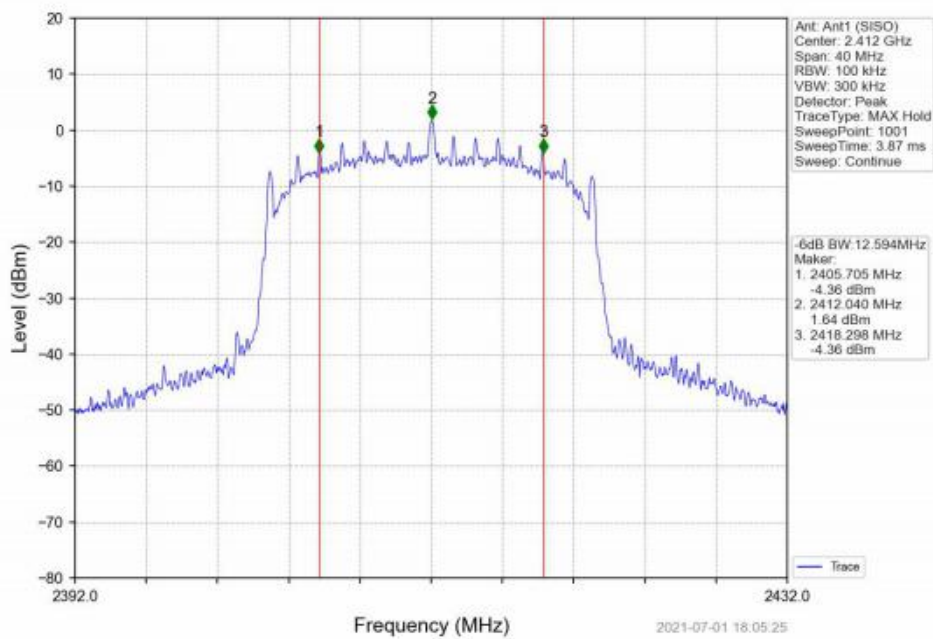
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



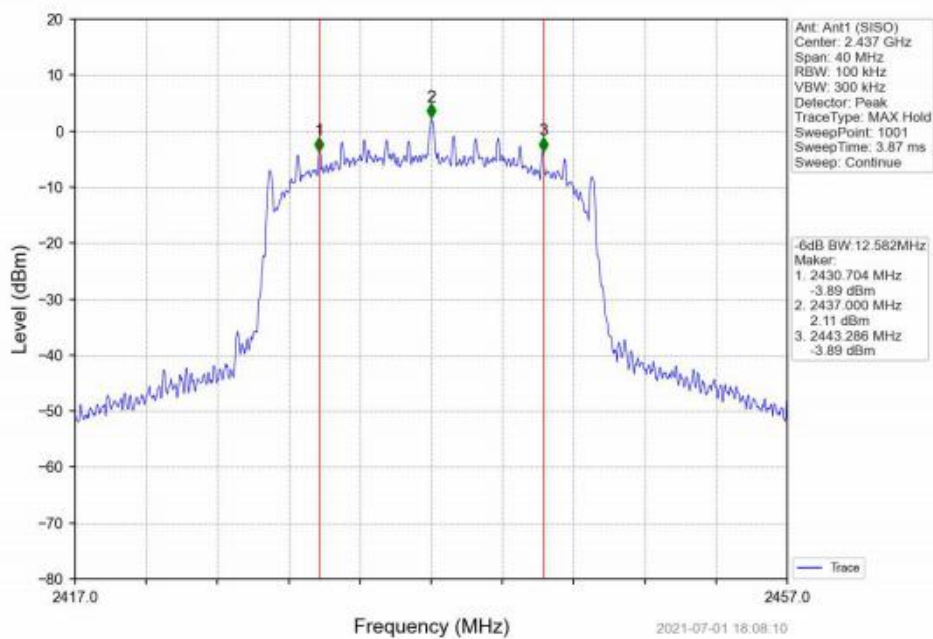
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



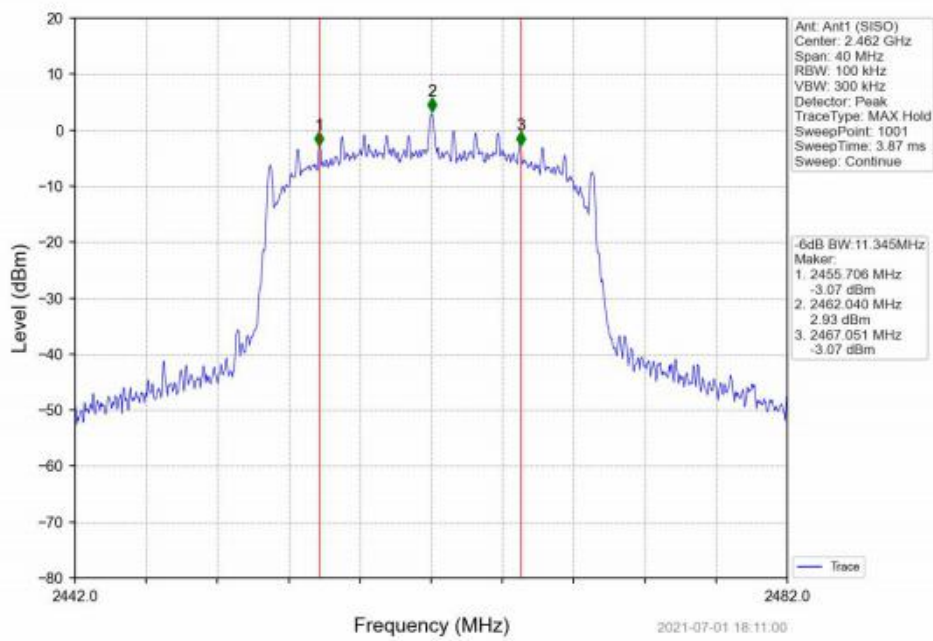
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



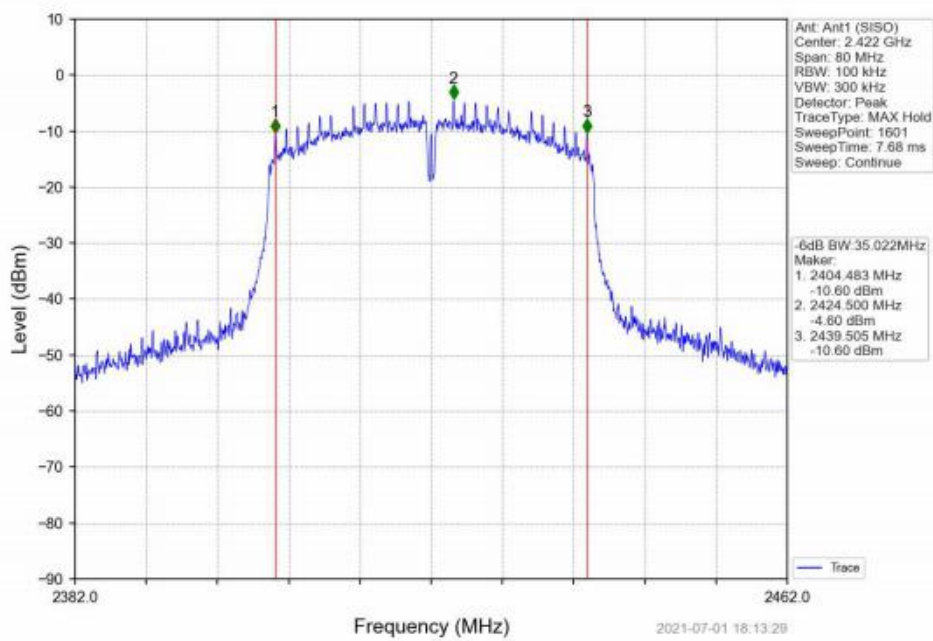
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



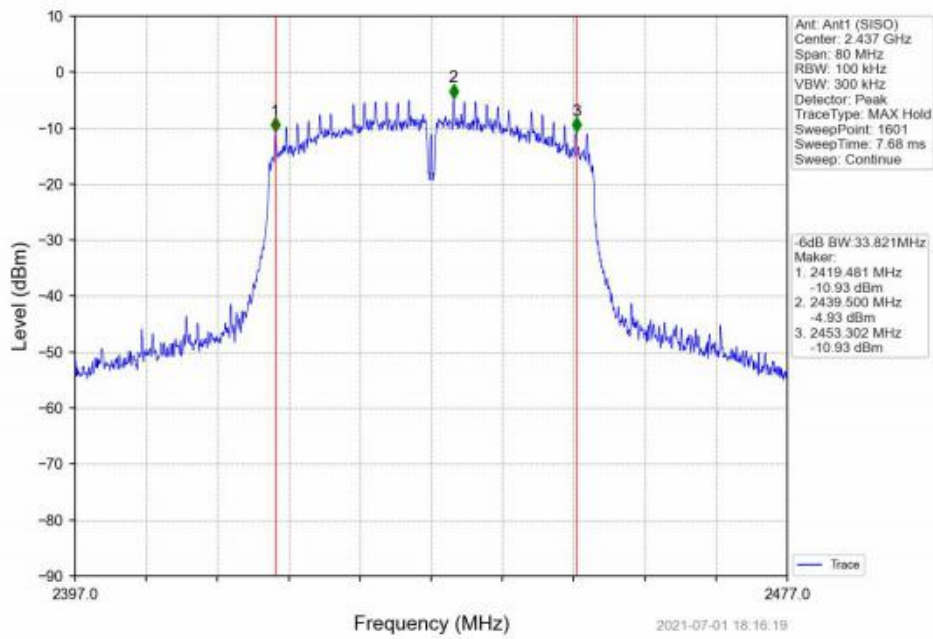
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



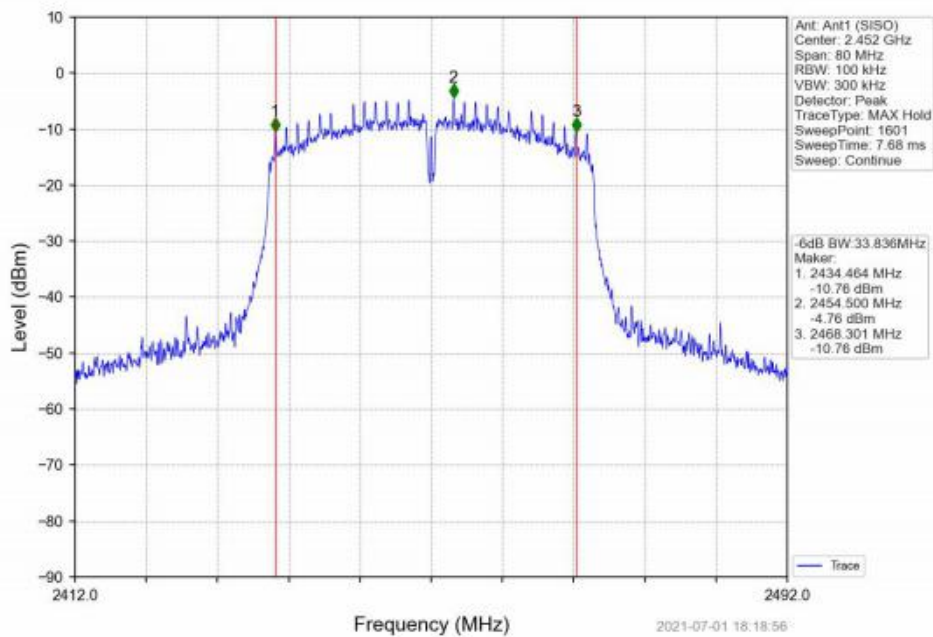
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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



### 3. Maximum Conducted Output Power

#### 3.1 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	/	/	16.63	<=30	Pass
		2437	/	/	16.59	<=30	Pass
		2462	/	/	16.97	<=30	Pass
802.11g	SISO	2412	/	/	18.36	<=30	Pass
		2437	/	/	18.55	<=30	Pass
		2462	/	/	19.19	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	16.86	<=30	Pass
		2437	/	/	17.07	<=30	Pass
		2462	/	/	17.47	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	16.30	<=30	Pass
		2437	/	/	15.95	<=30	Pass
		2452	/	/	16.11	<=30	Pass

Note1: Antenna Gain: Ant1: 0.50dBi;

### 4. Maximum Power Spectral Density

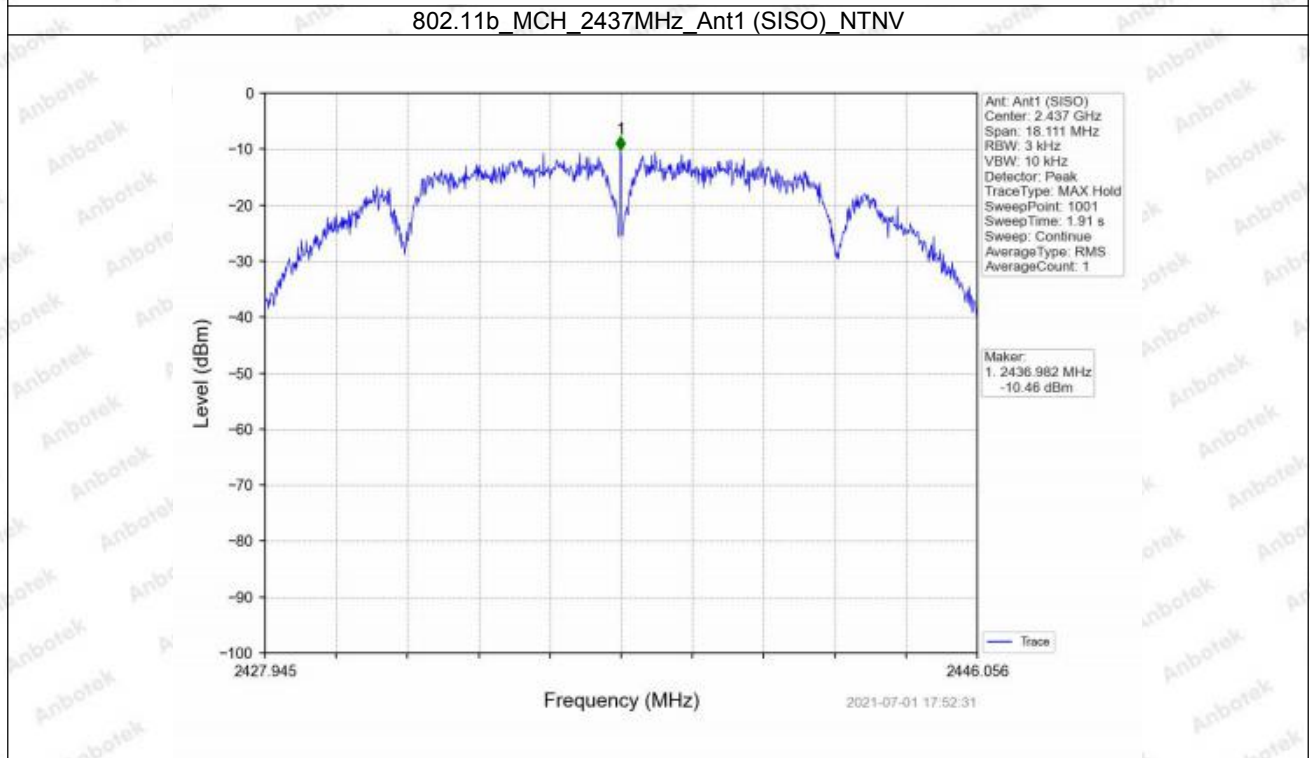
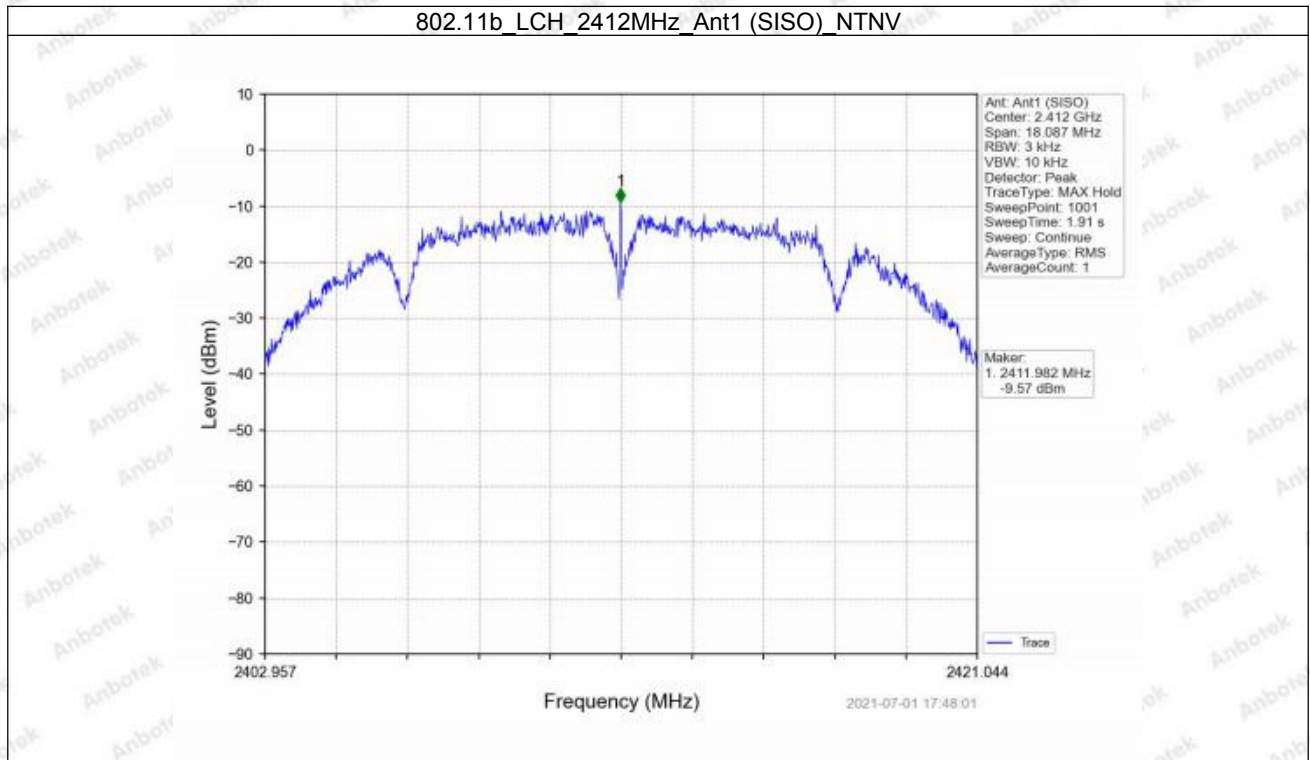
#### 4.1 PSD

##### 4.1.1 Test Result

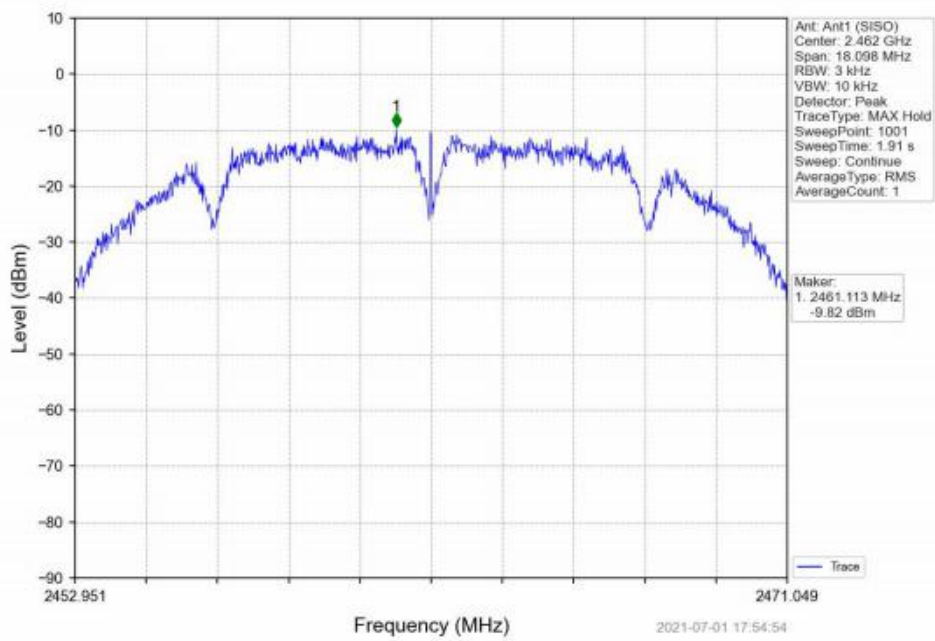
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-9.57	<=8	Pass
		2437	/	/	-10.46	<=8	Pass
		2462	/	/	-9.82	<=8	Pass
802.11g	SISO	2412	/	/	-11.59	<=8	Pass
		2437	/	/	-12.70	<=8	Pass
		2462	/	/	-12.35	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-11.83	<=8	Pass
		2437	/	/	-12.37	<=8	Pass
		2462	/	/	-13.40	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-13.58	<=8	Pass
		2437	/	/	-13.59	<=8	Pass
		2452	/	/	-13.91	<=8	Pass

Note1: Antenna Gain: Ant1: 0.50dBi;

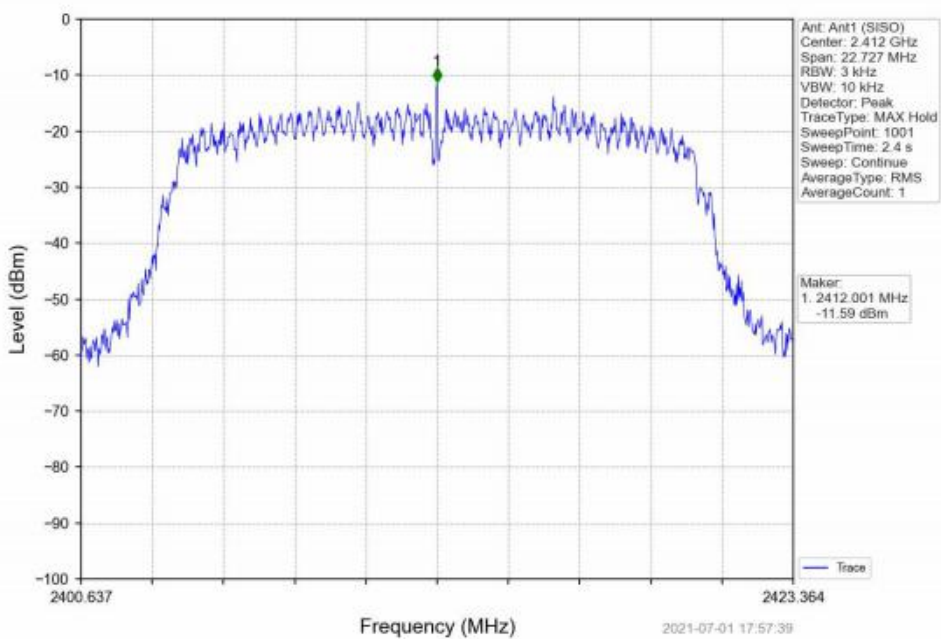
### 4.1.2 Test Graph



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



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



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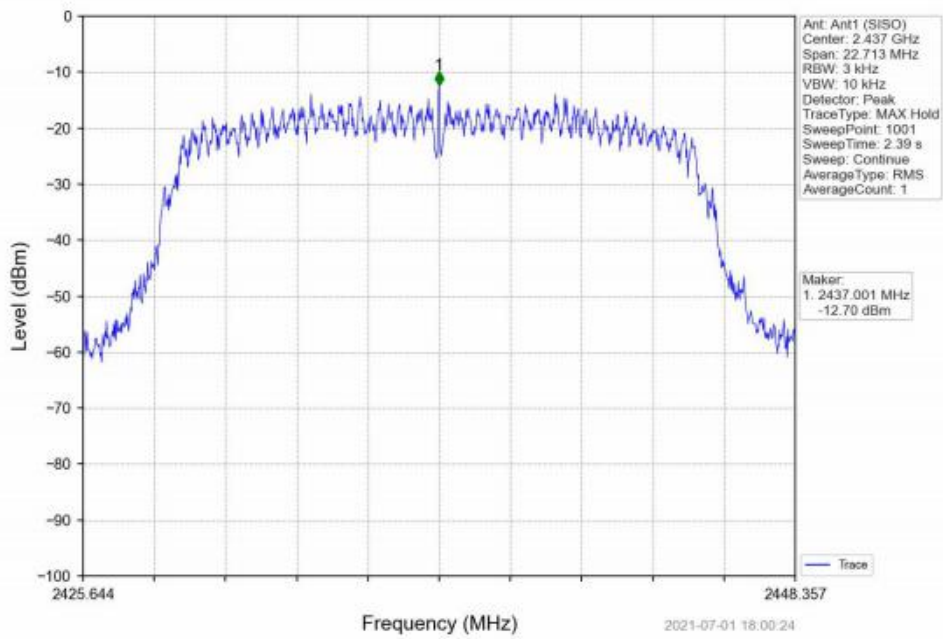
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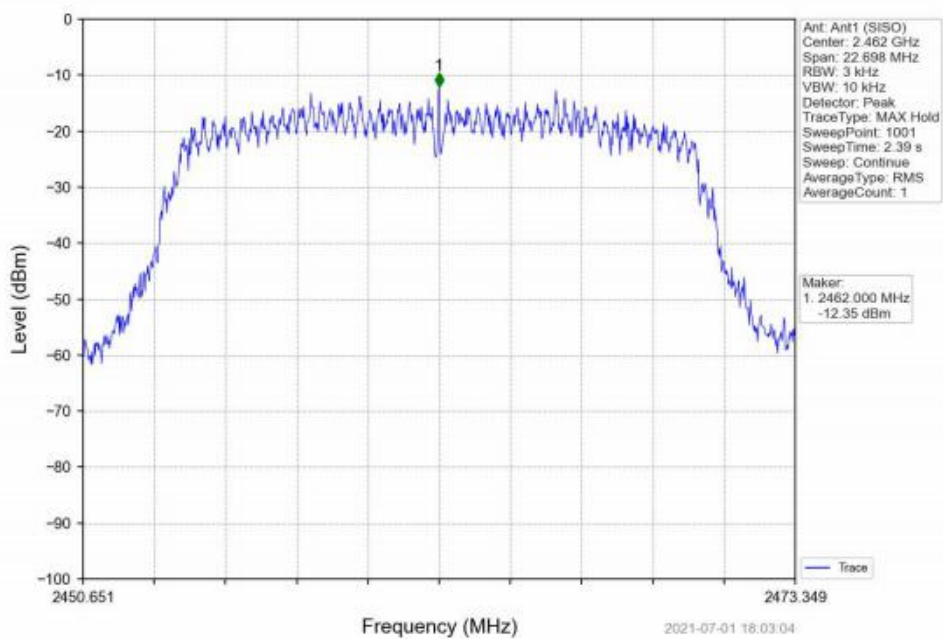
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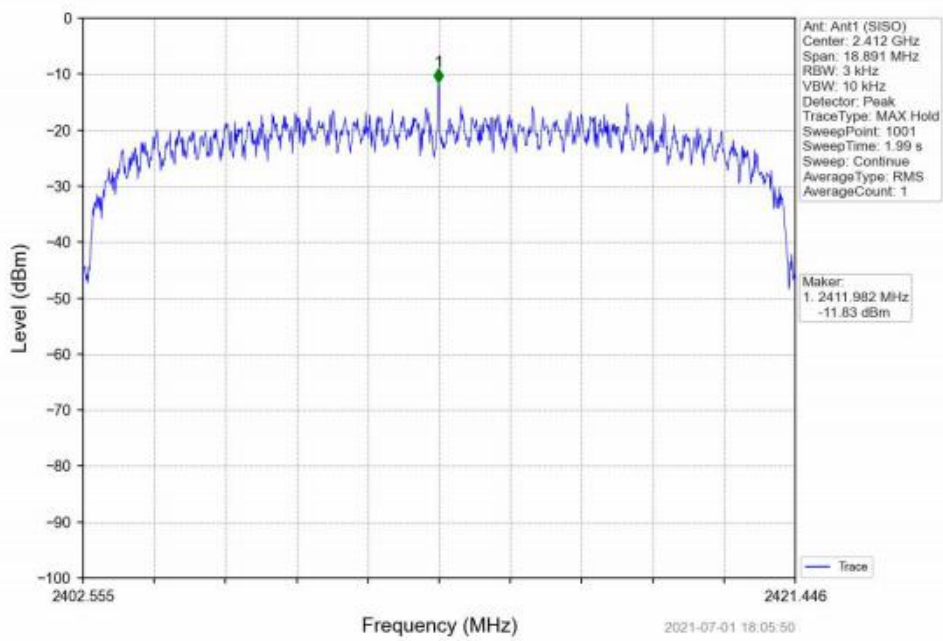
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



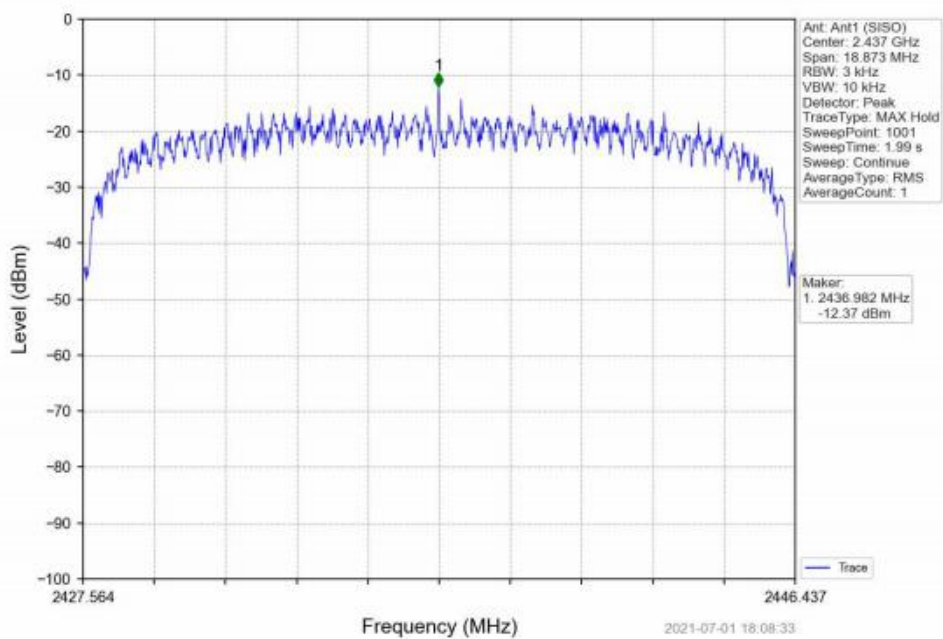
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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

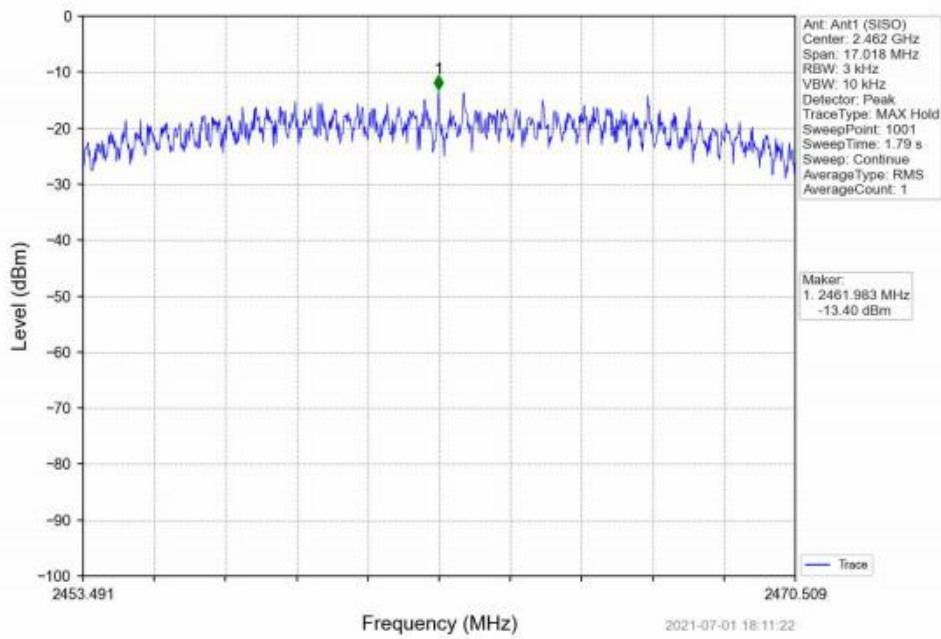


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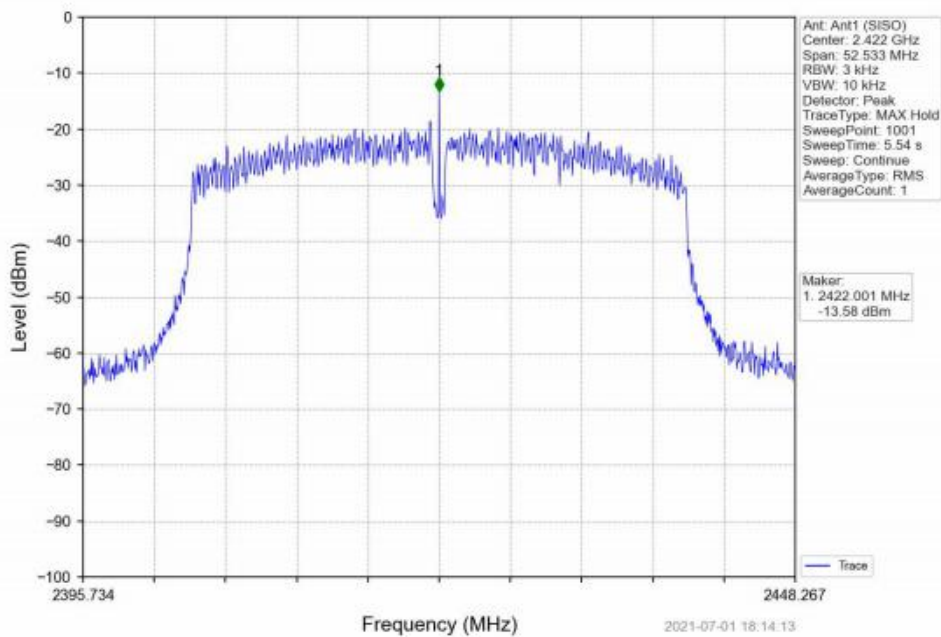
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



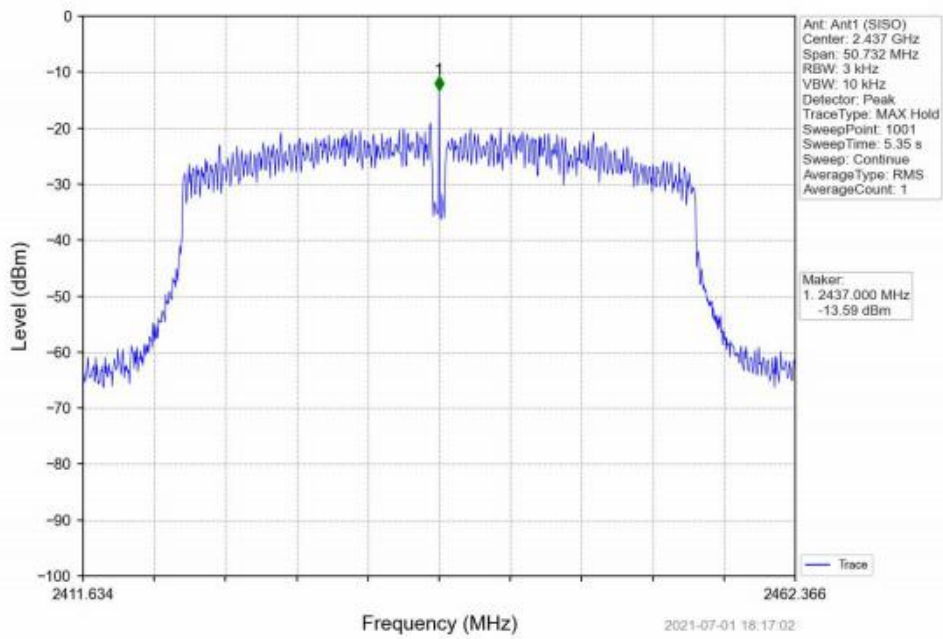
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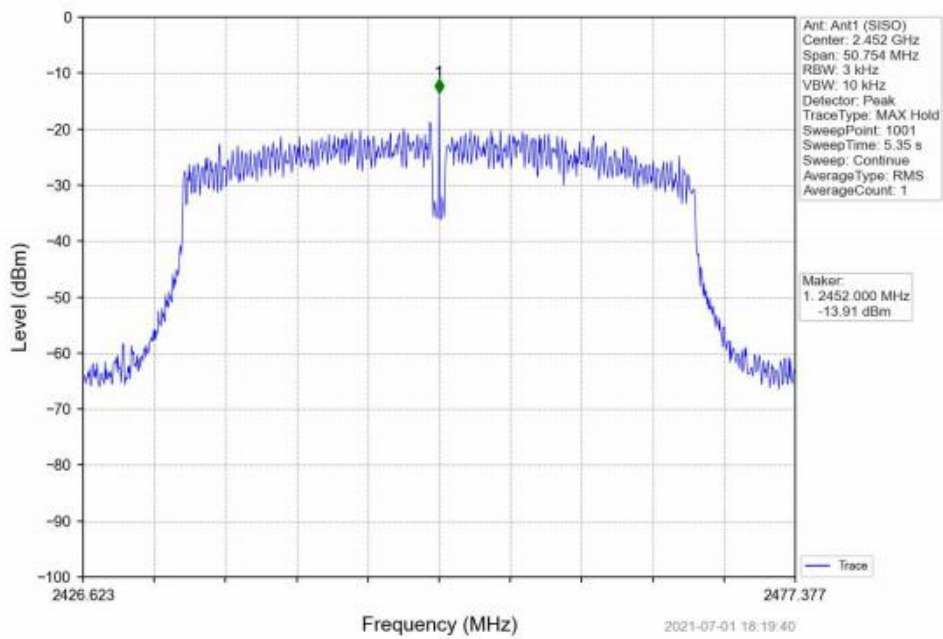
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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

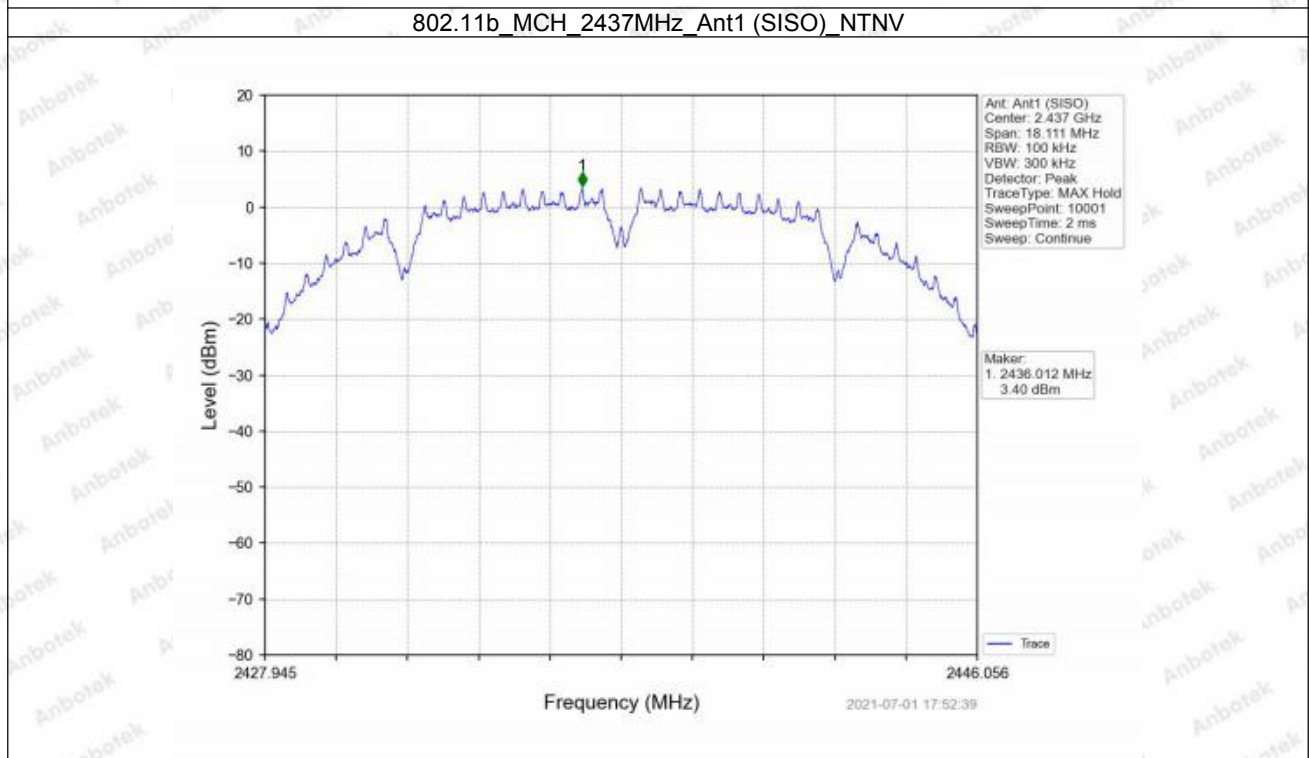
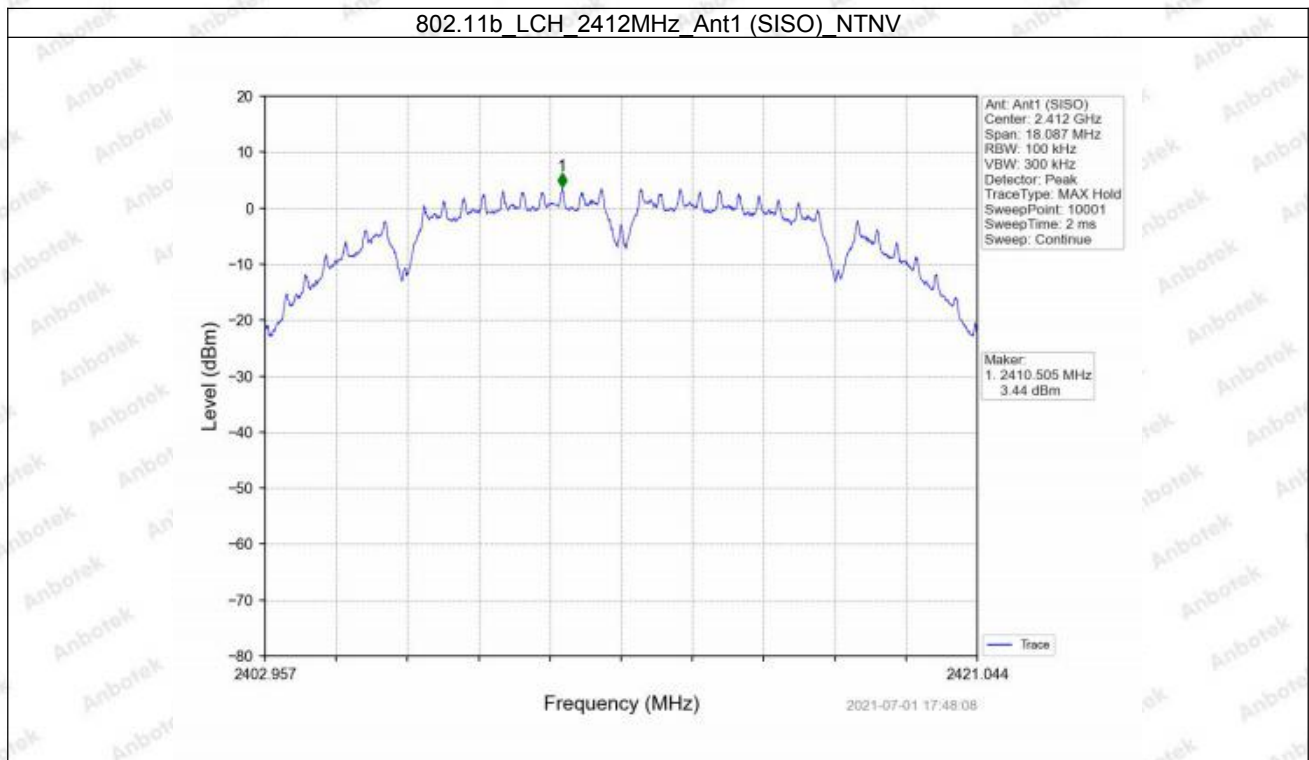
### 5.1 Ref

#### 5.1.1 Test Result

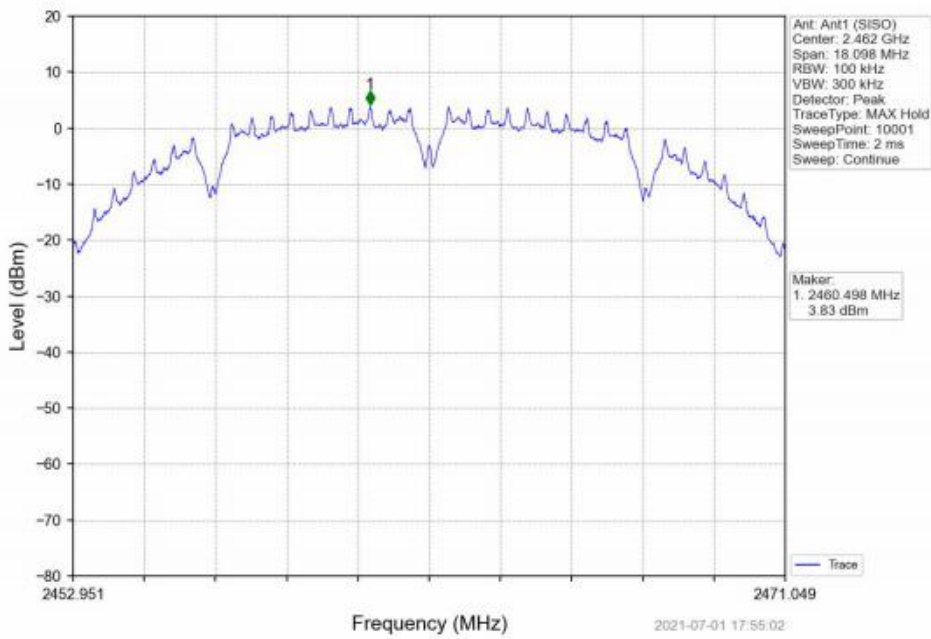
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	3.44	/	/
		2437	/	/	1	3.40	/	/
		2462	/	/	1	3.83	/	/
802.11g	SISO	2412	/	/	1	-0.30	/	/
		2437	/	/	1	-0.12	/	/
		2462	/	/	1	0.53	/	/
802.11n (HT20)	SISO	2412	/	/	1	1.65	/	/
		2437	/	/	1	2.03	/	/
		2462	/	/	1	2.74	/	/
802.11n (HT40)	SISO	2422	/	/	1	-4.81	/	/
		2437	/	/	1	-5.14	/	/
		2452	/	/	1	-4.88	/	/

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.

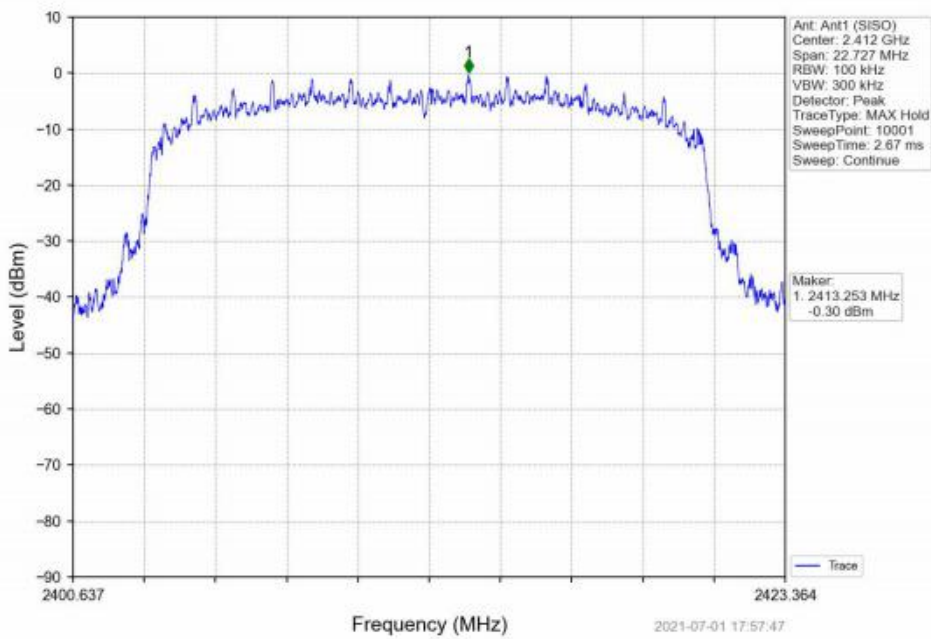
5.1.2 Test Graph



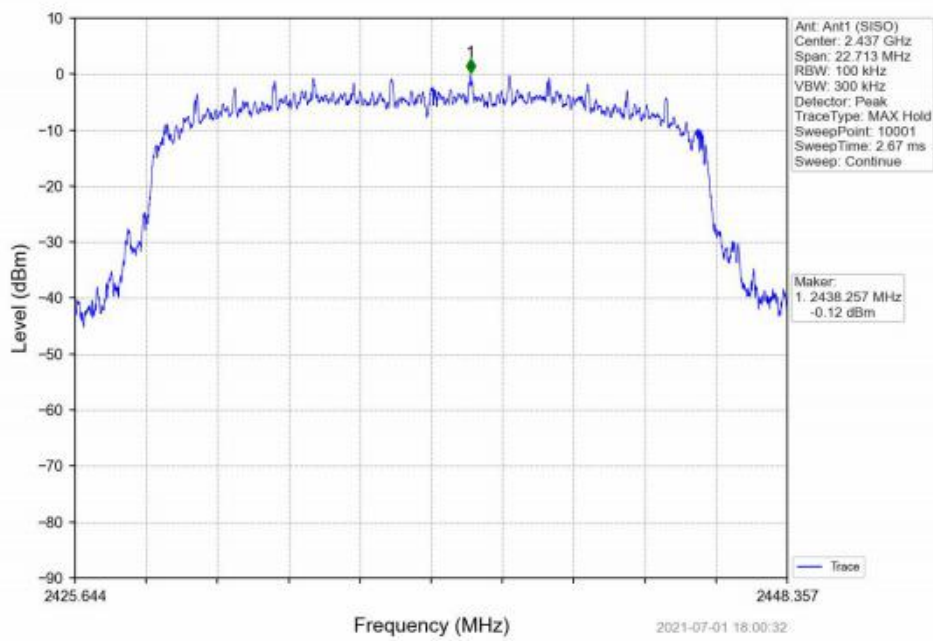
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



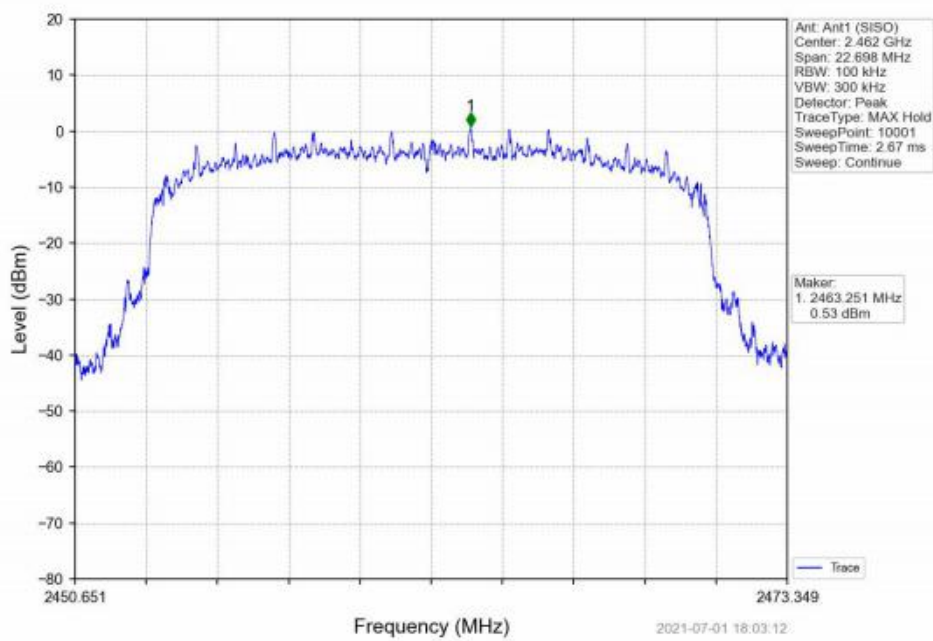
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

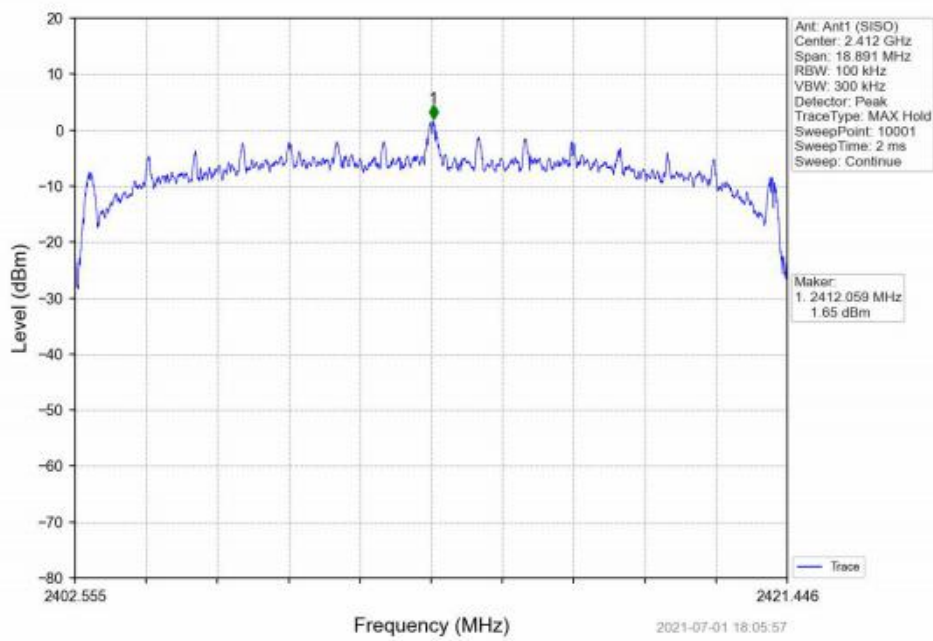


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

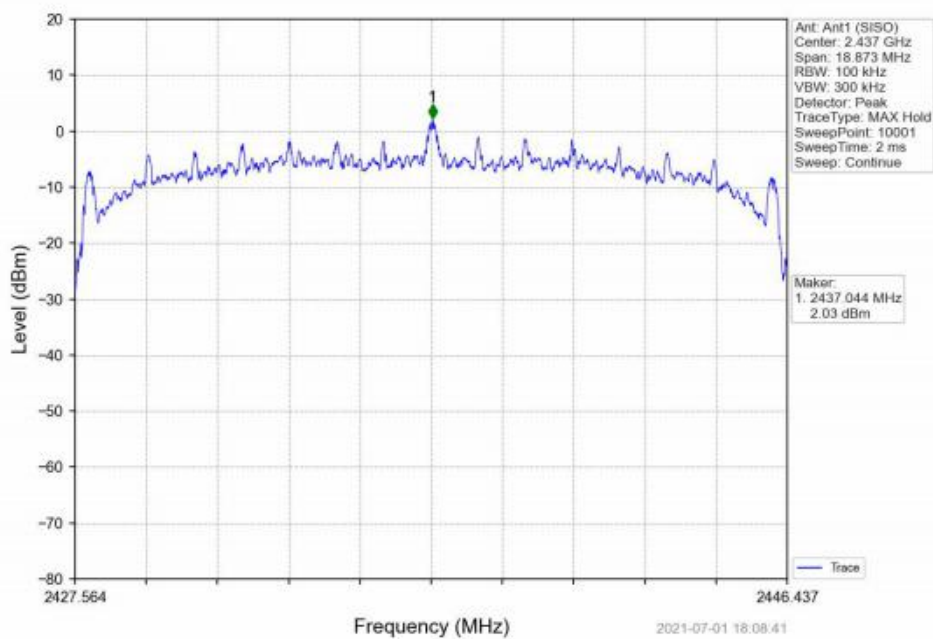




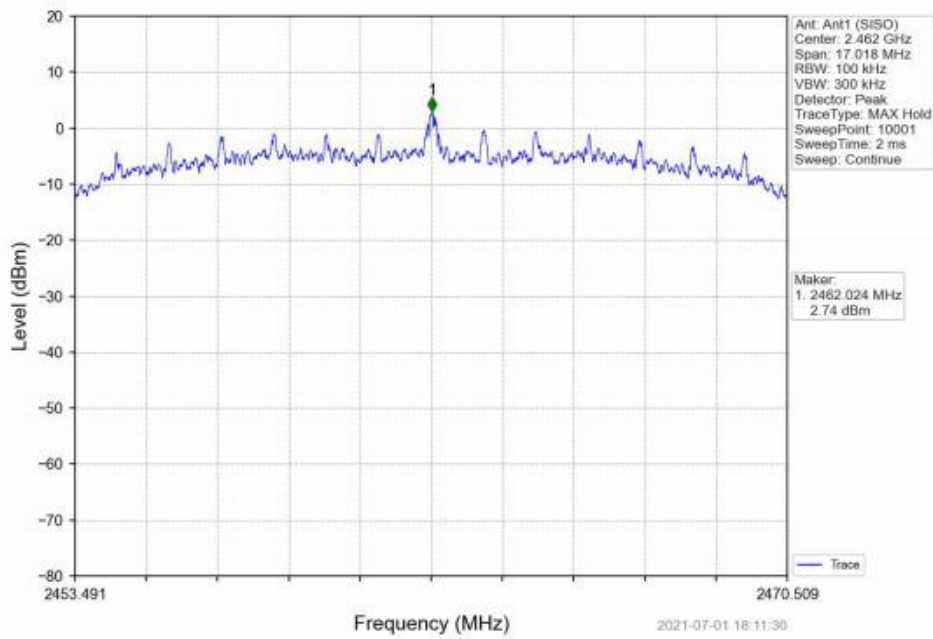
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



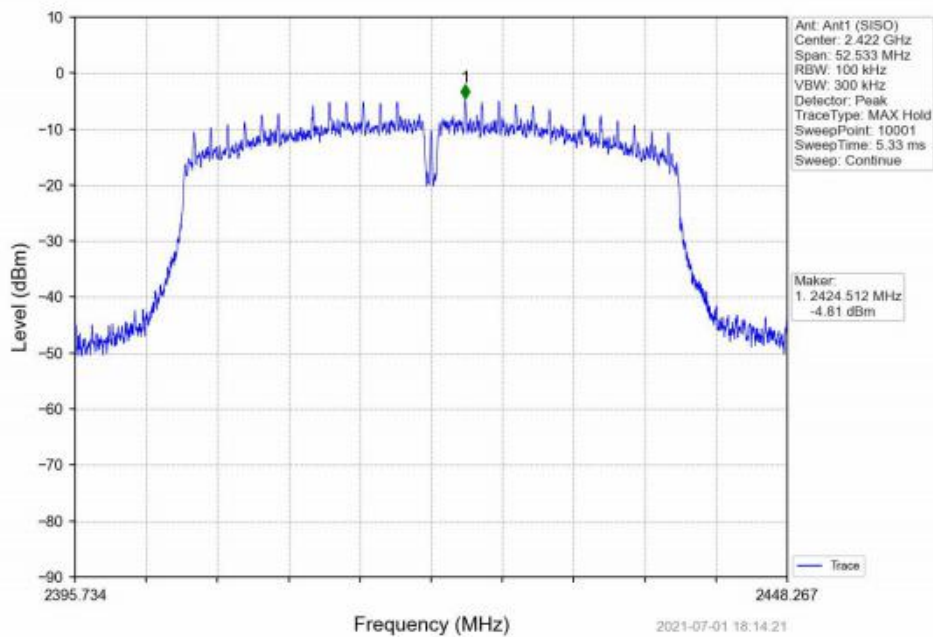
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



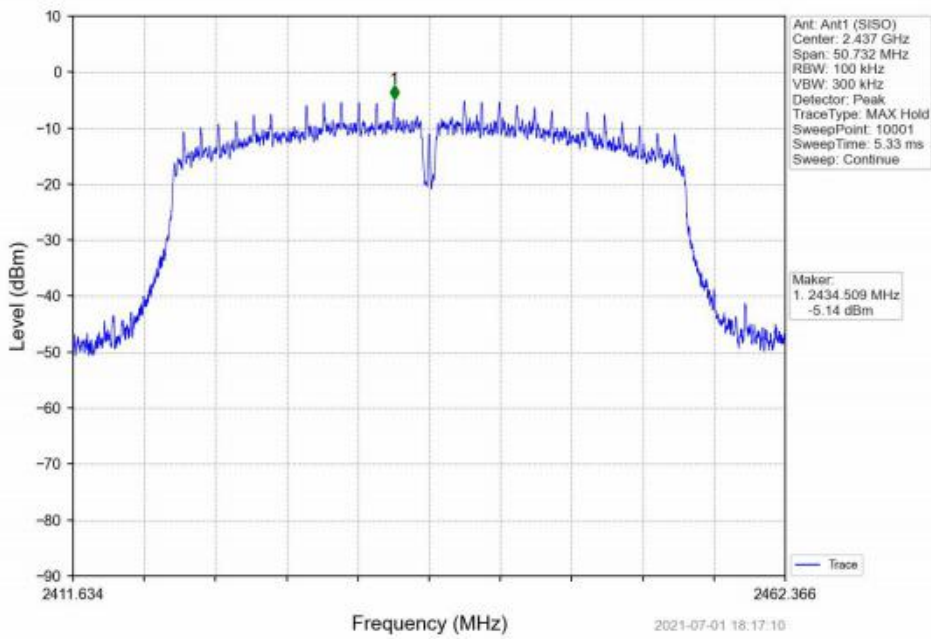
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



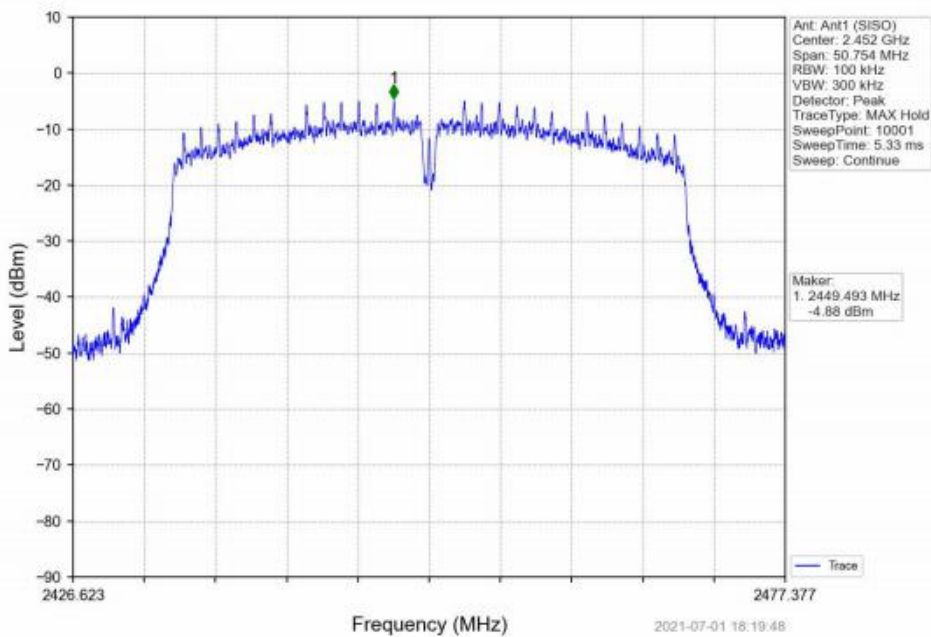
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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



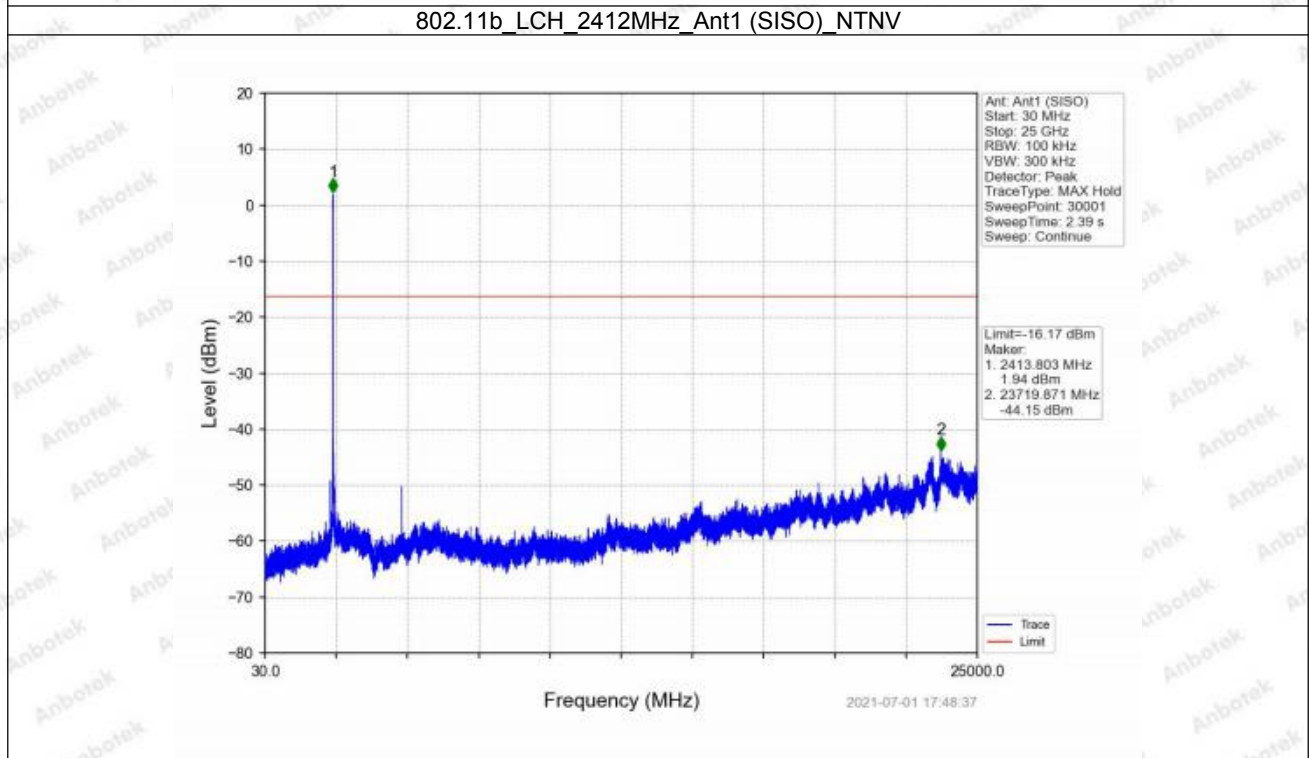
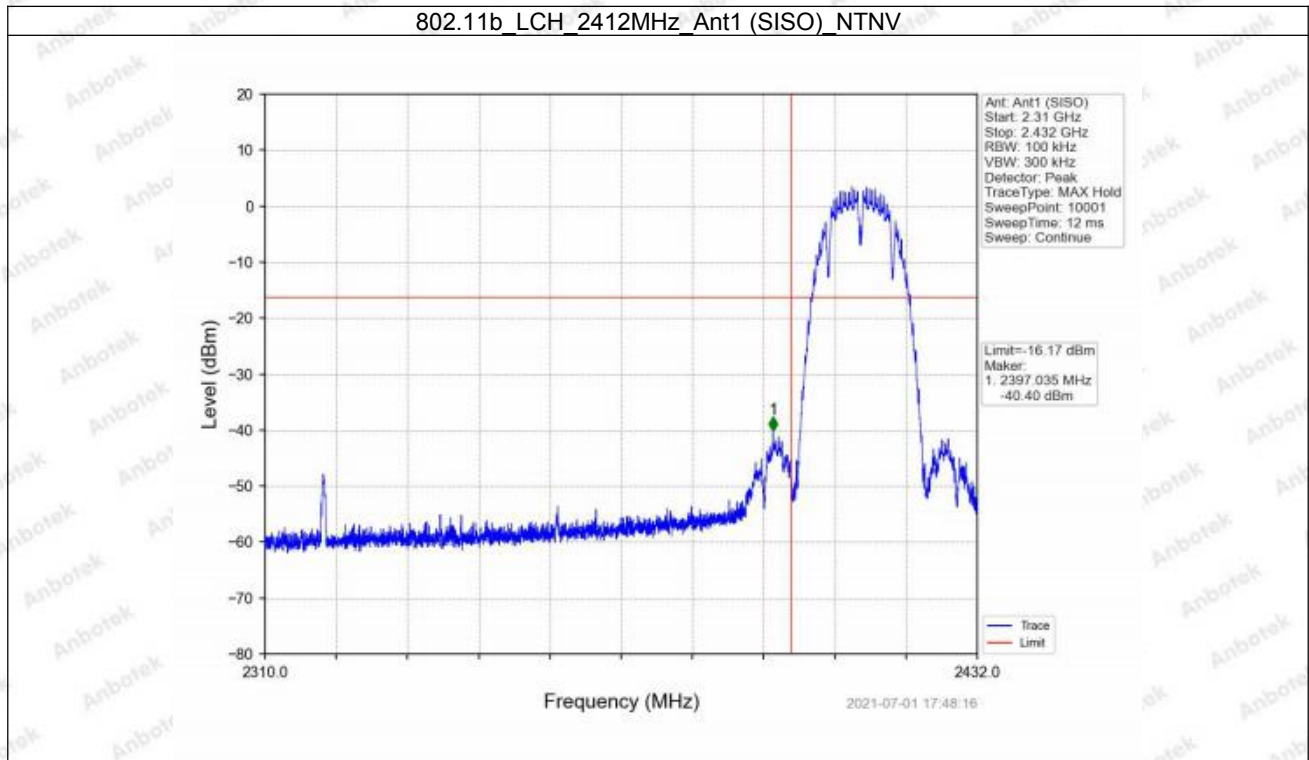
## 5.2 CSE

### 5.2.1 Test Result

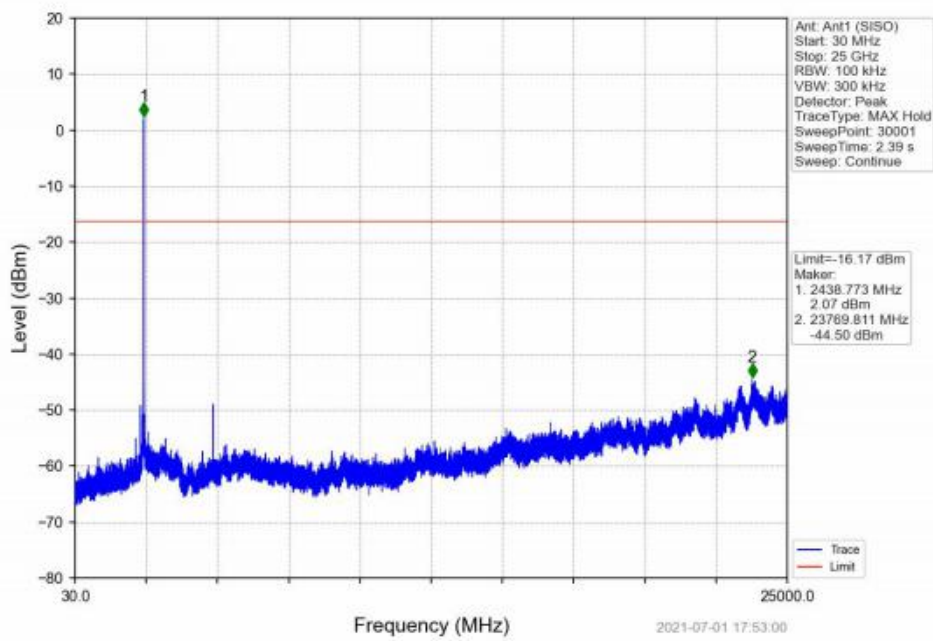
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11g	SISO	2412	/	/	1	Refer 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
802.11n (HT40)	SISO	2422	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2452	/	/	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.

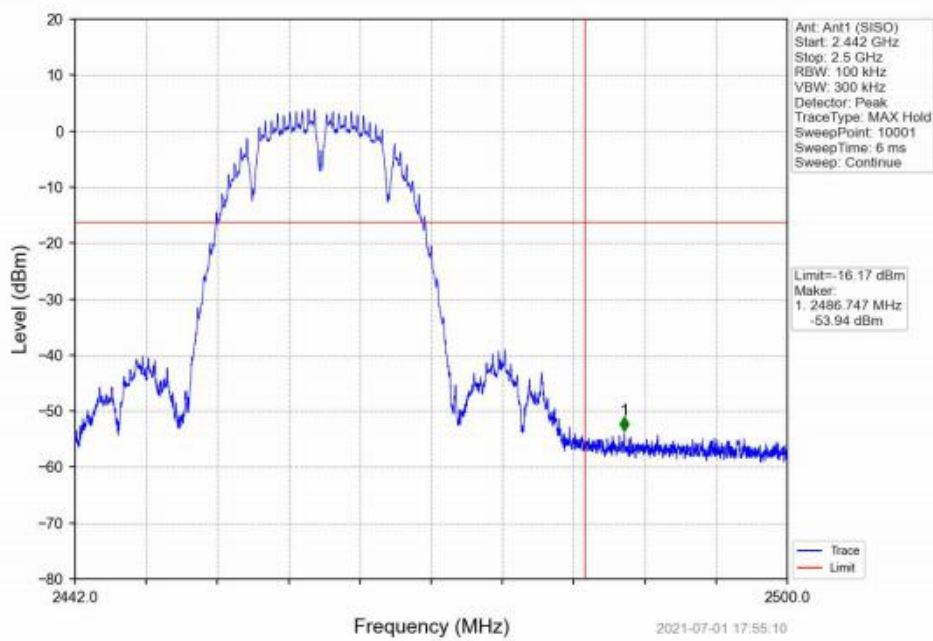
5.2.2 Test Graph



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



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



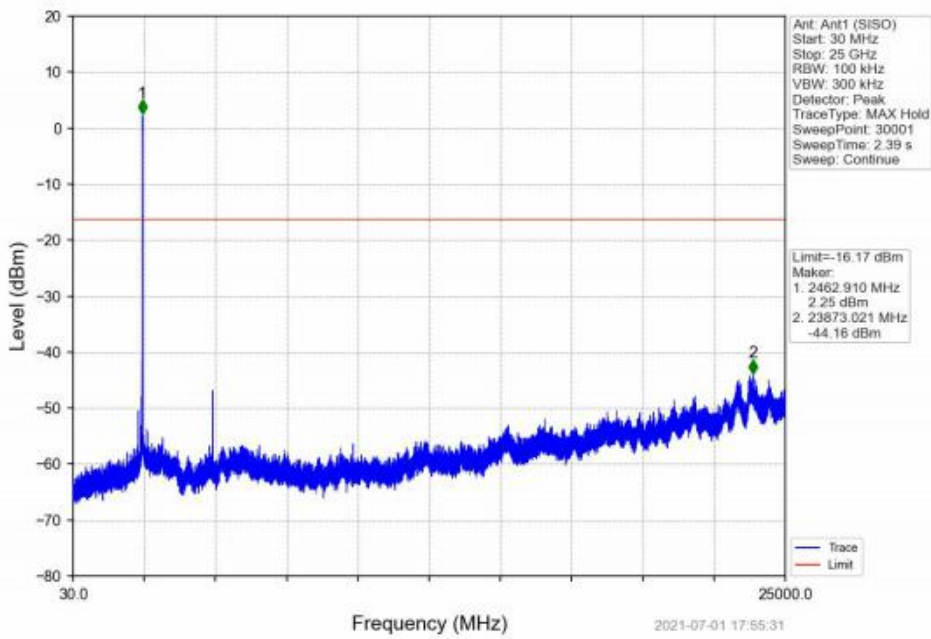
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

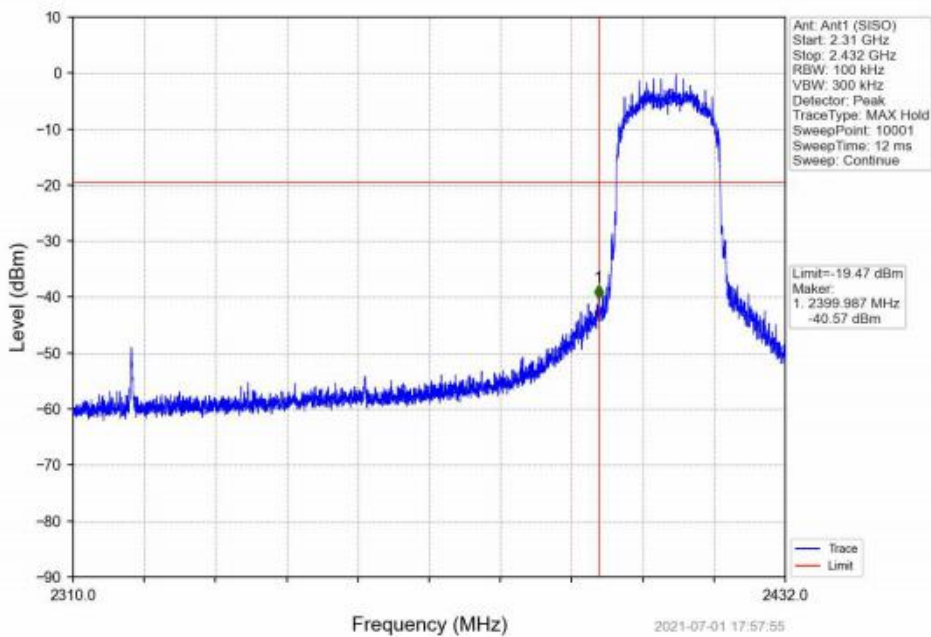
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline  
400-003-0500  
www.anbotek.com

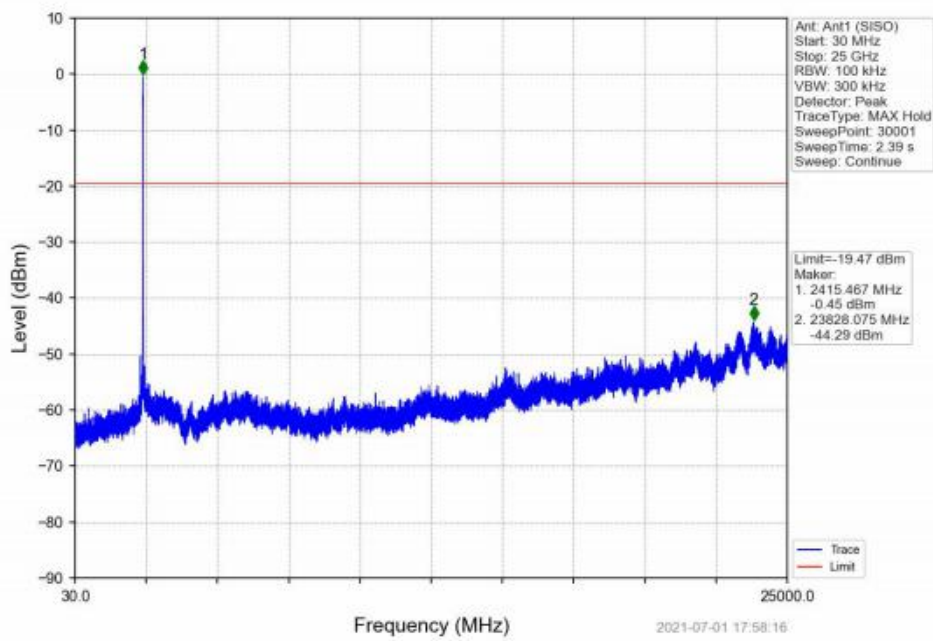
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



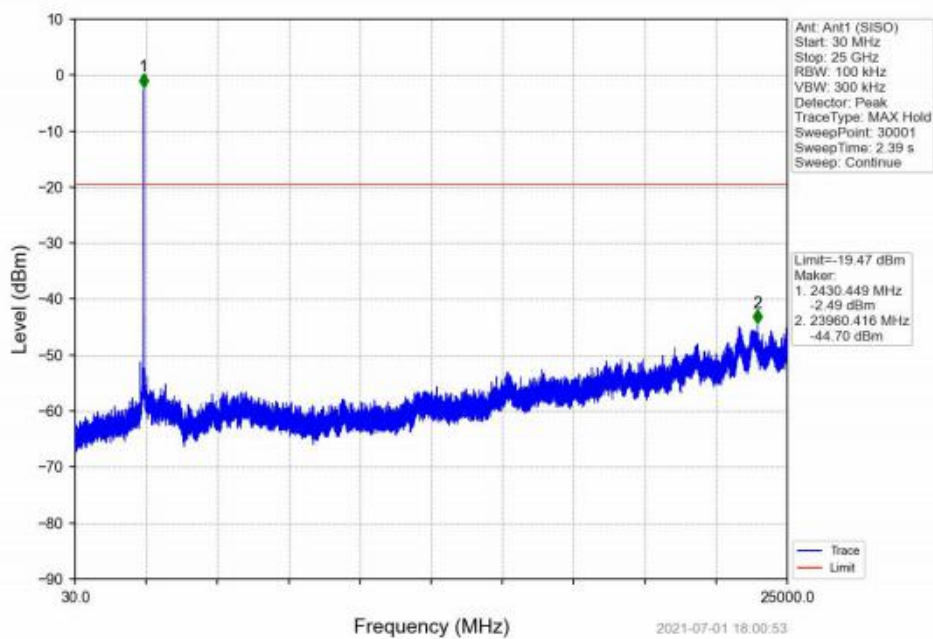
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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



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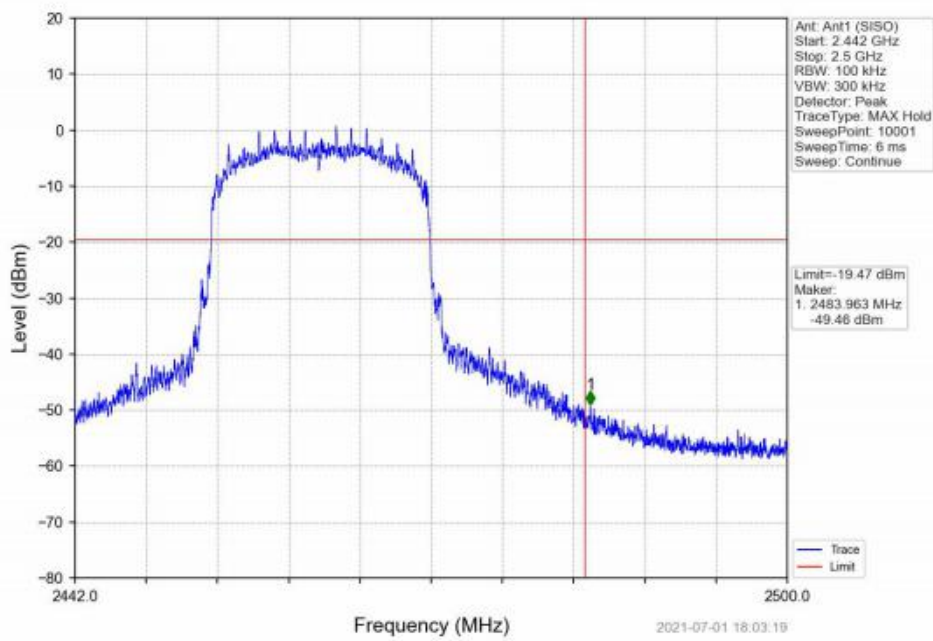
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

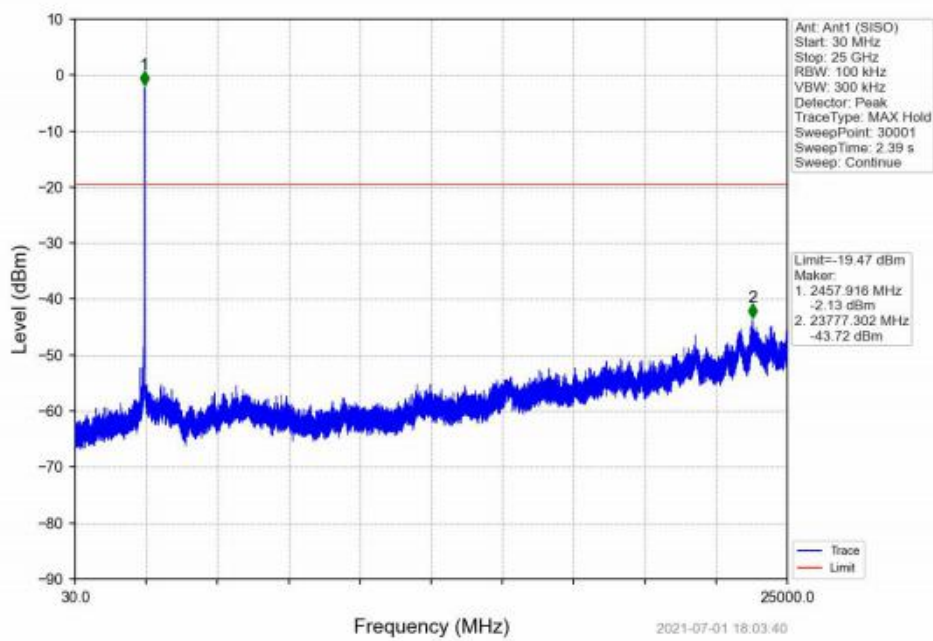
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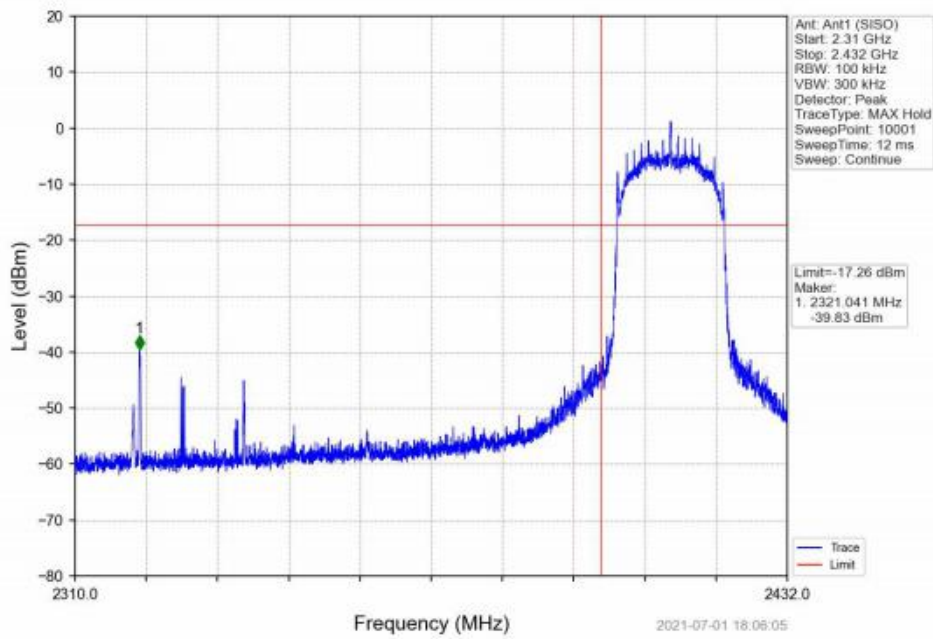
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



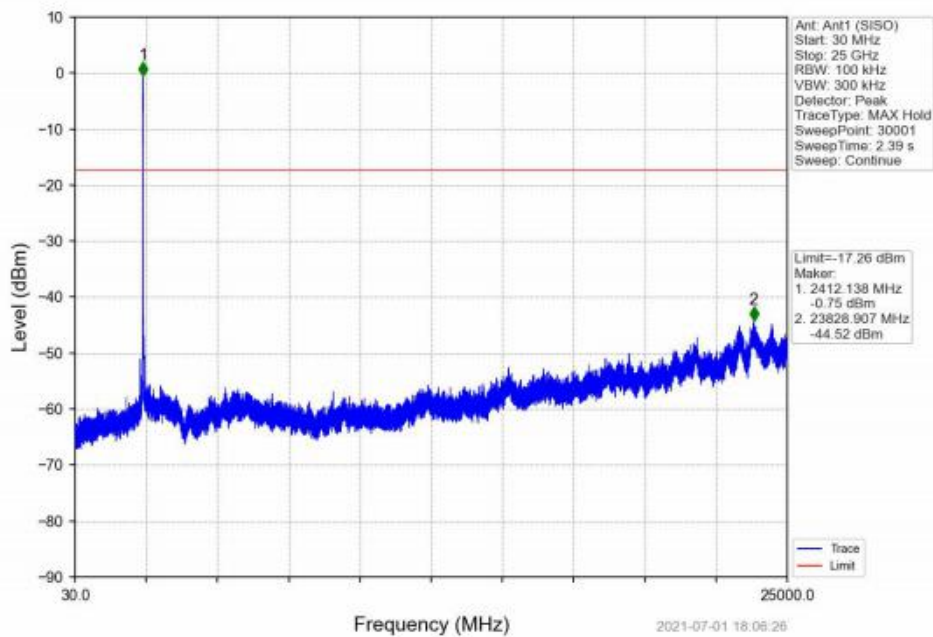
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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



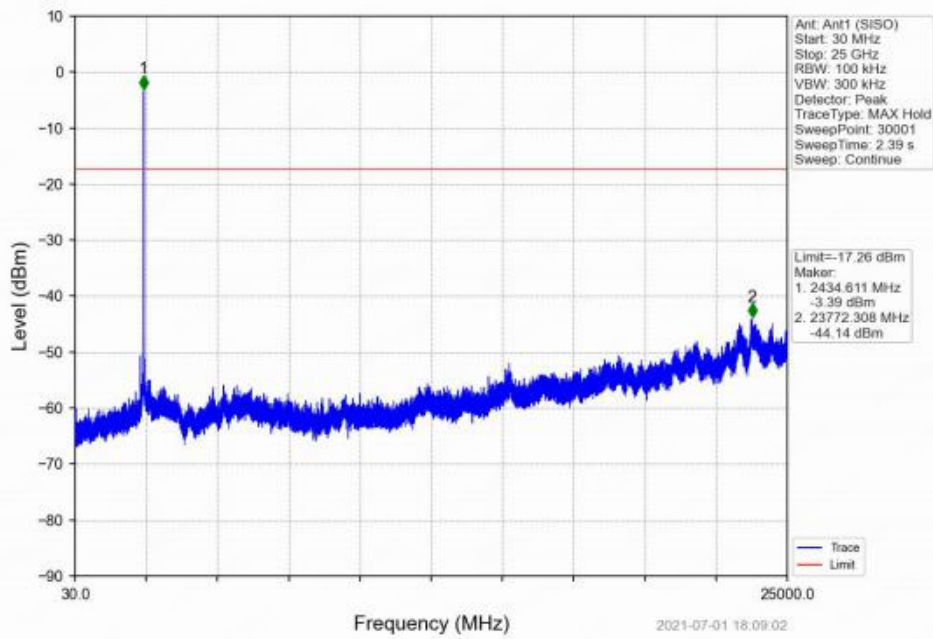
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

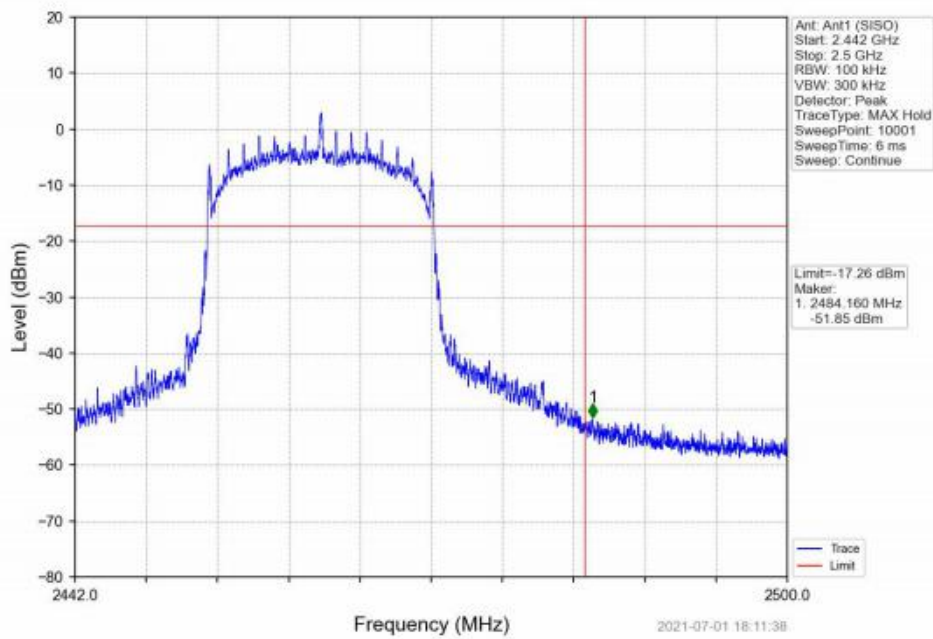
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline  
400-003-0500  
www.anbotek.com

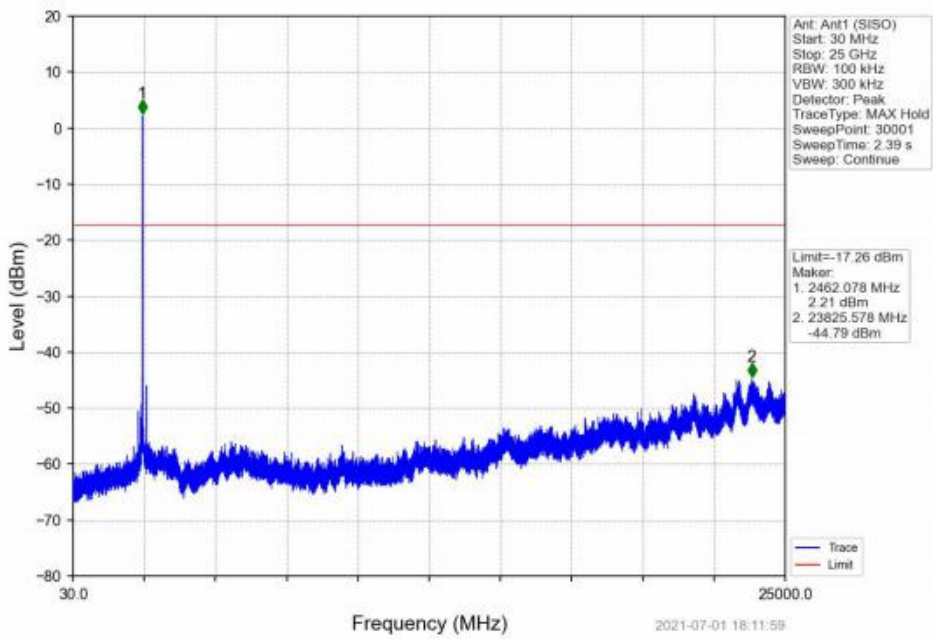
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



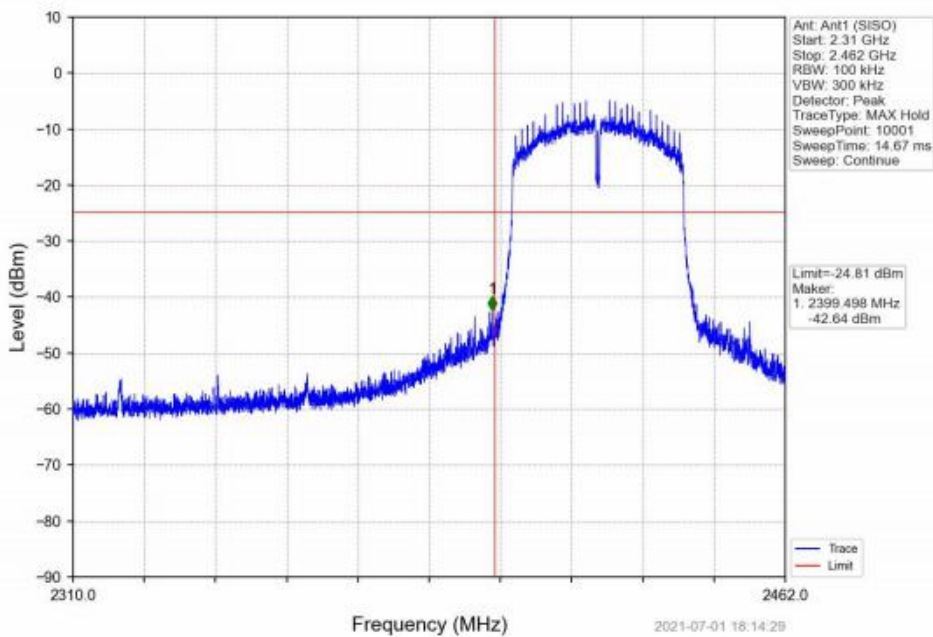
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



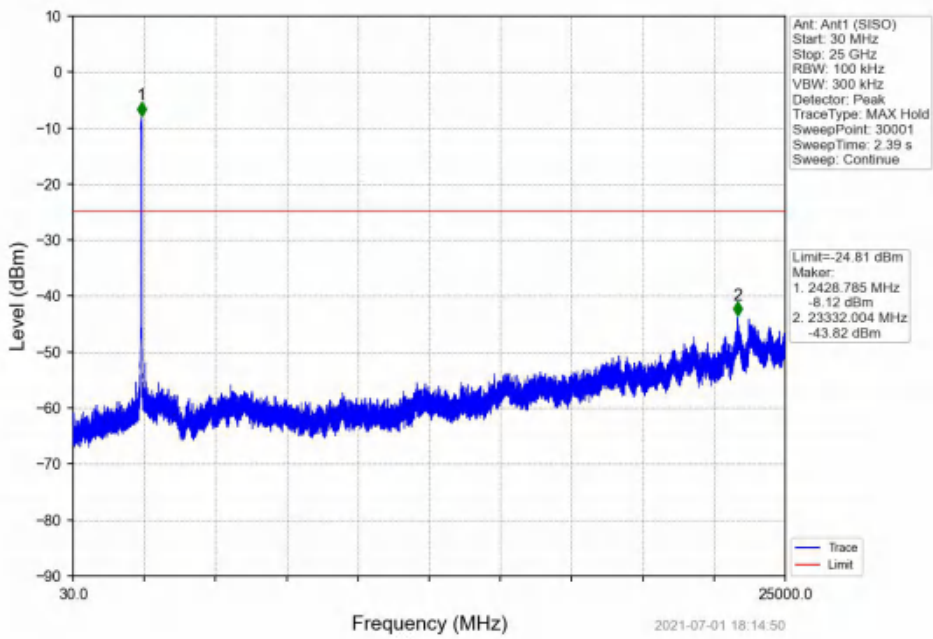
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



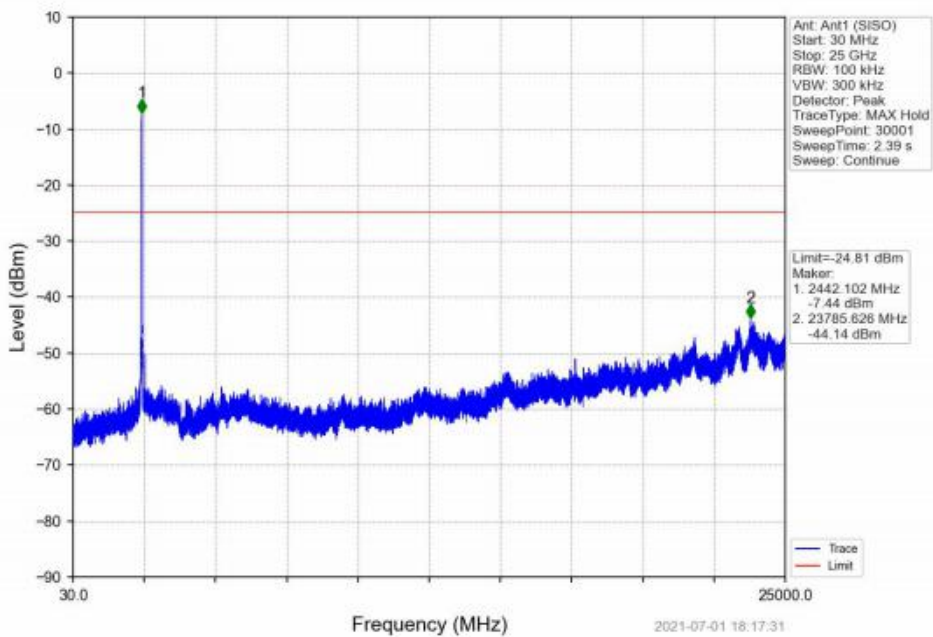
802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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



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



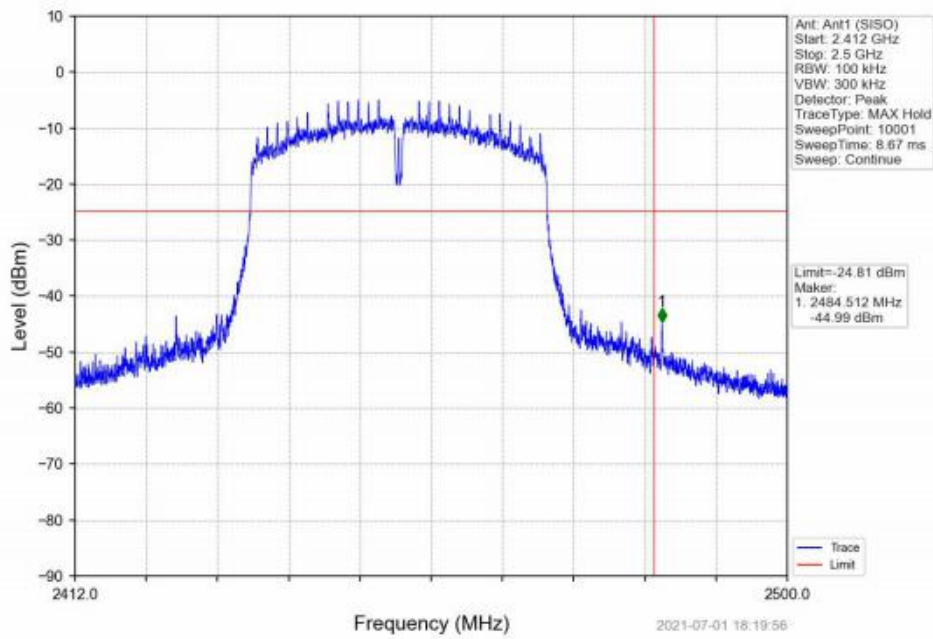
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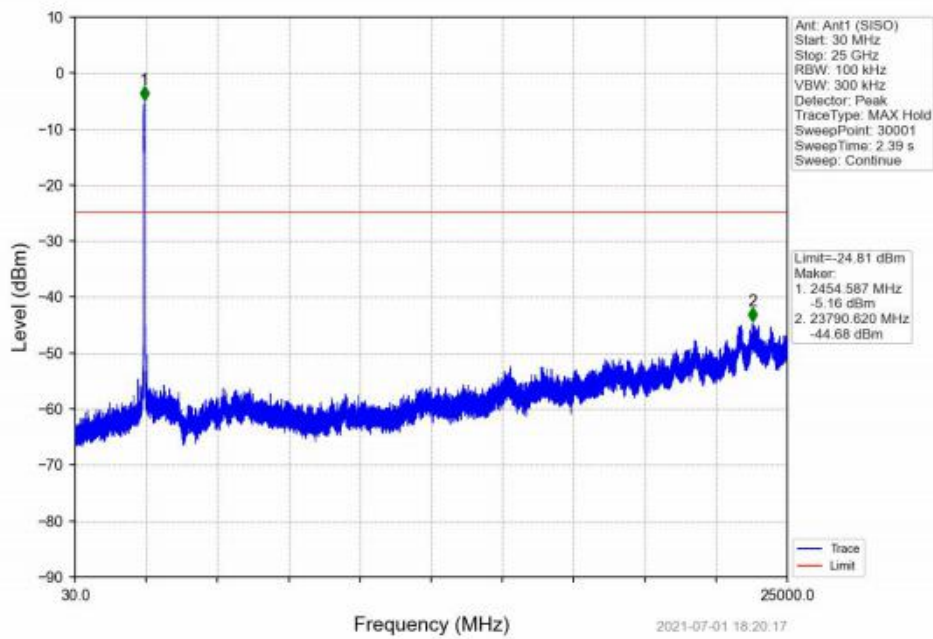
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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