

Appendix Test Data

Report No.:	18220WC10100601	Test Date:	2021.6.1
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	55 %
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	/	/	8.36	8.47	98.70	0.06	0.12
		2437	/	/	8.38	8.47	98.94	0.05	0.12
		2462	/	/	8.38	8.47	98.94	0.05	0.00
802.11g	SISO	2412	/	/	1.39	1.41	98.51	0.07	0.00
		2437	/	/	1.39	1.41	98.44	0.07	0.12
		2462	/	/	1.39	1.41	98.44	0.07	0.12
802.11n (HT20)	SISO	2412	/	/	1.30	1.32	98.48	0.07	0.00
		2437	/	/	1.30	1.32	98.48	0.07	0.00
		2462	/	/	1.30	1.32	98.48	0.07	0.00
802.11n (HT40)	SISO	2422	/	/	100.00	100.00	100.00	0.00	0.00
		2437	/	/	100.00	100.00	100.00	0.00	0.00
		2452	/	/	100.00	100.00	100.00	0.00	0.00

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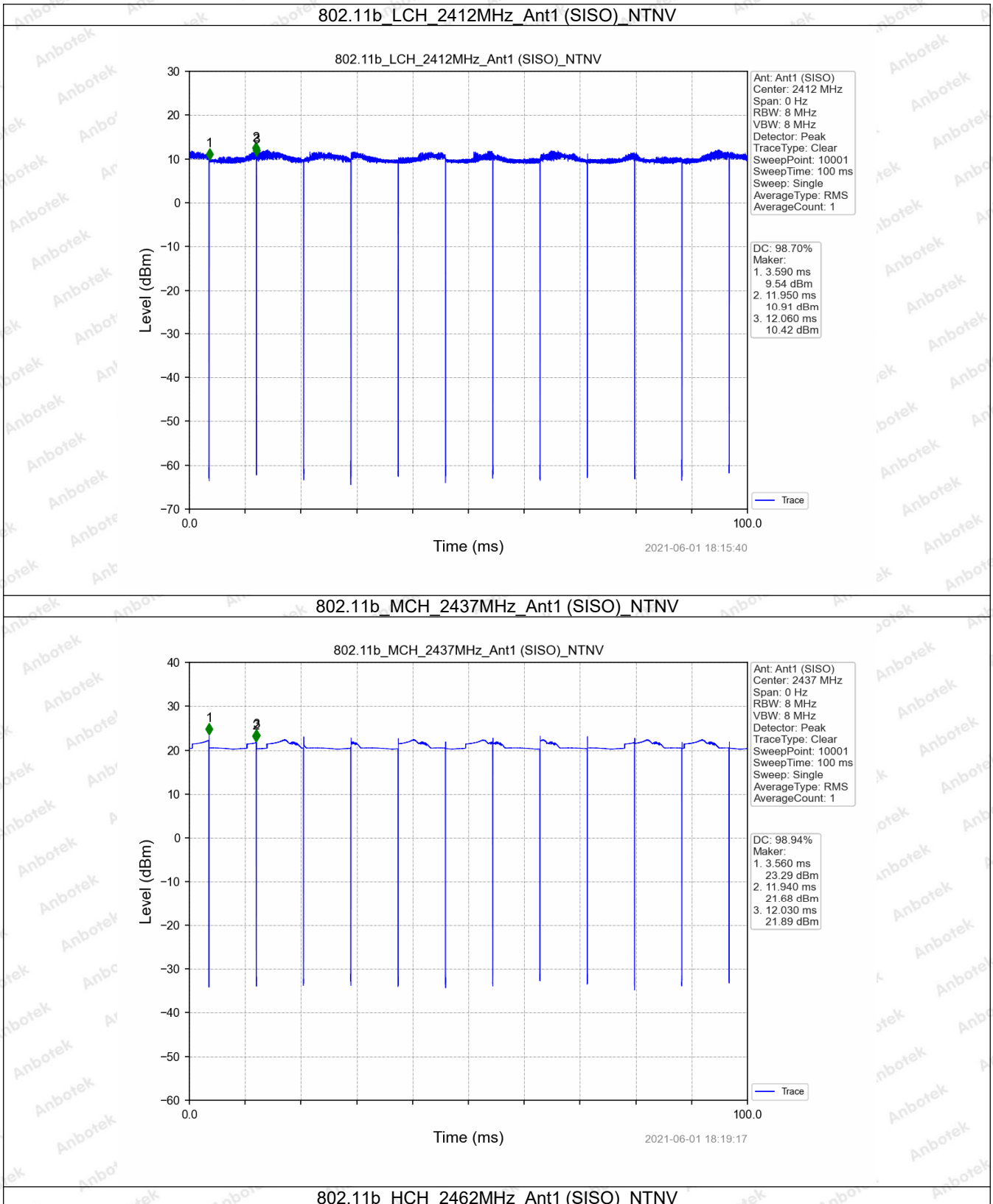


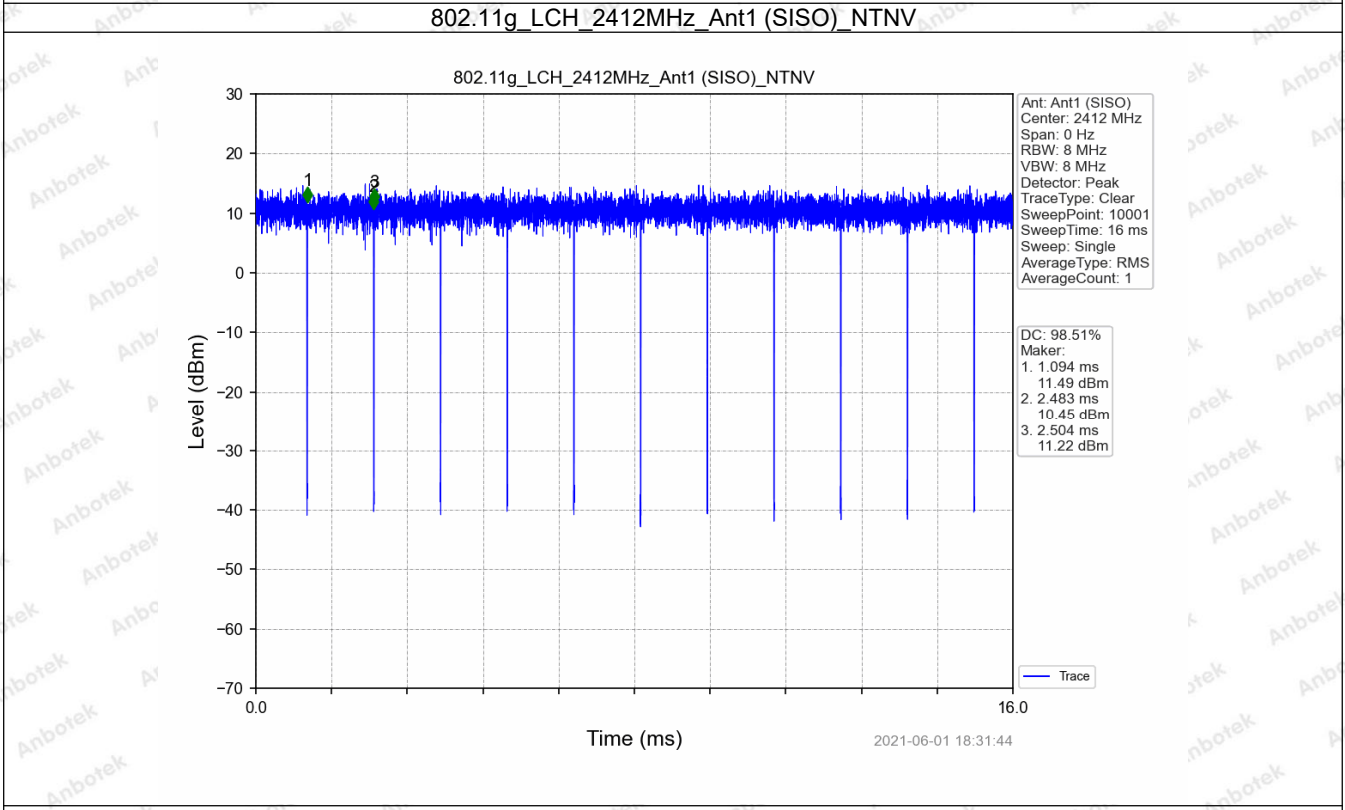
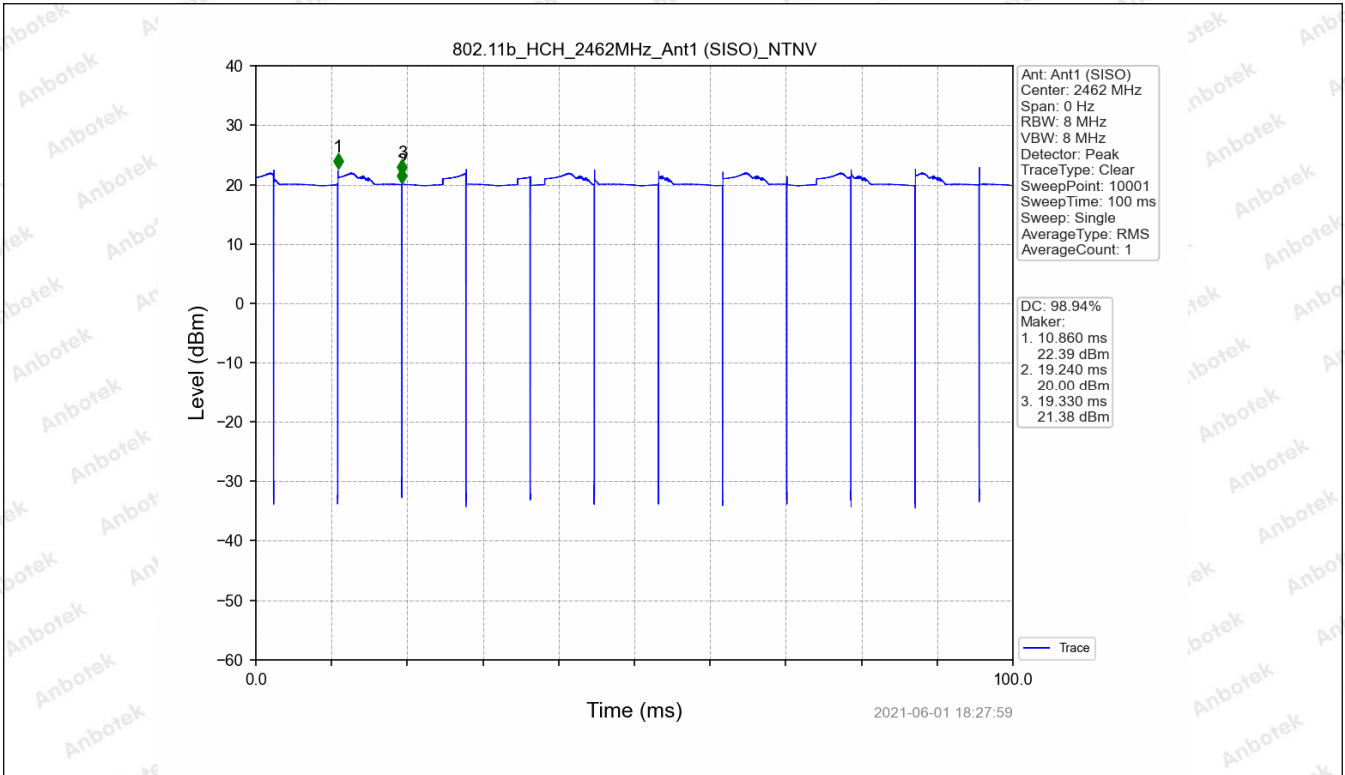
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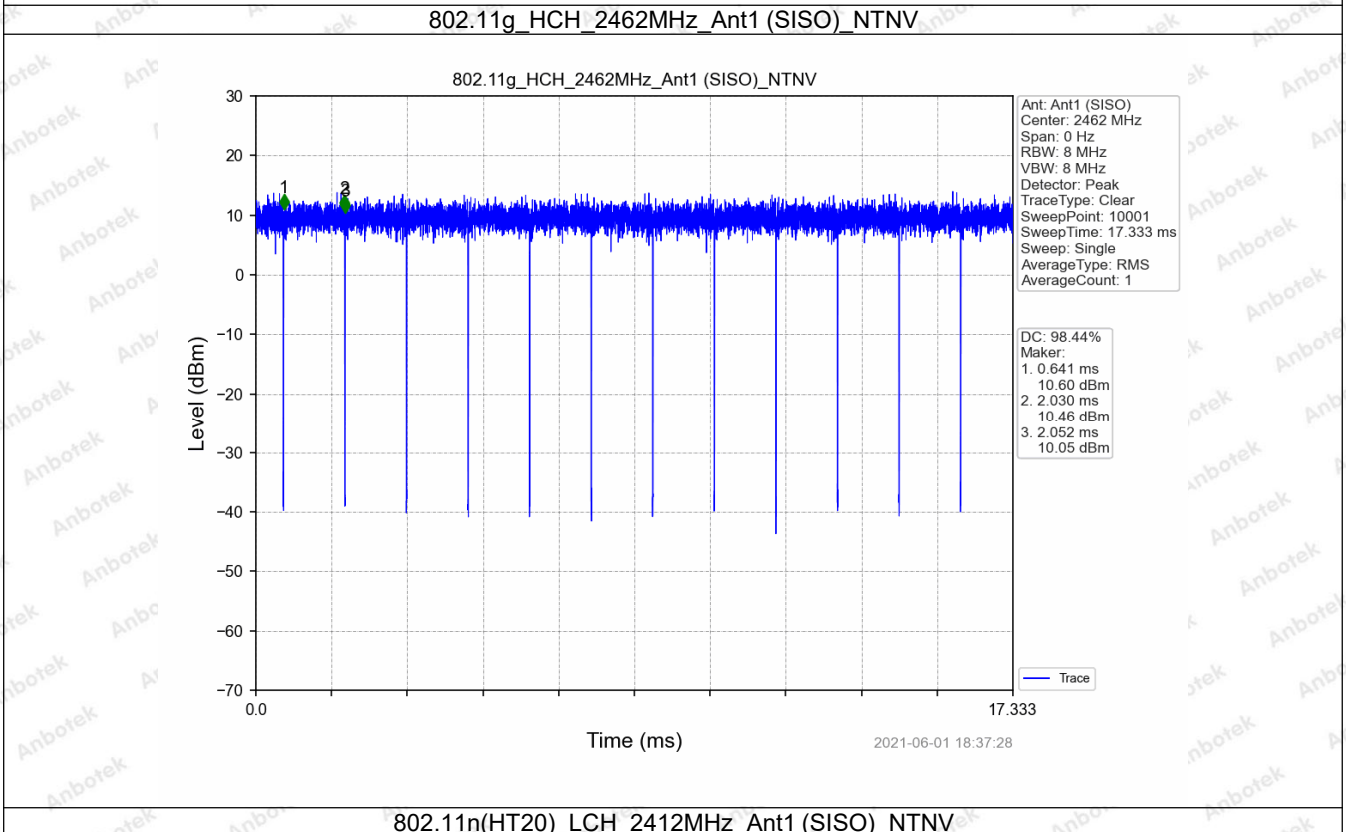
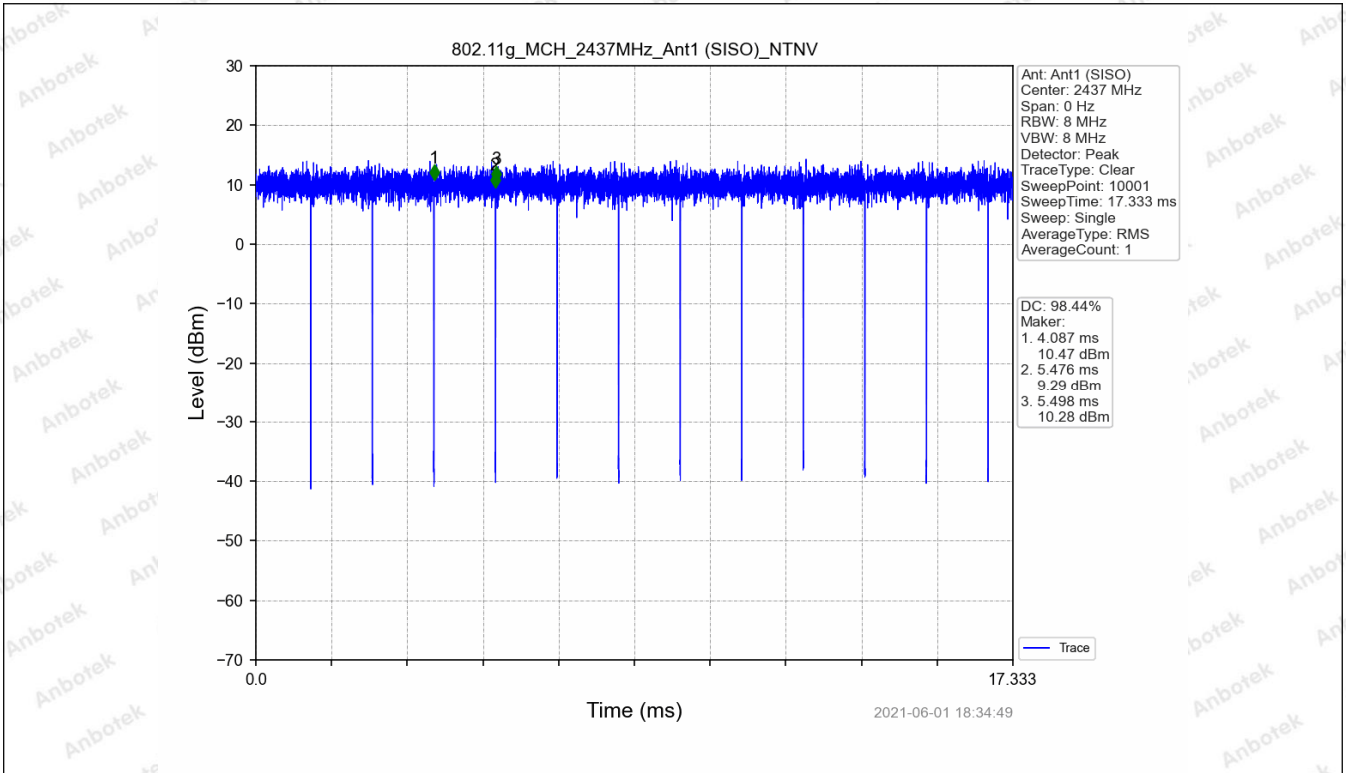
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1.1.2 Test Graph





802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



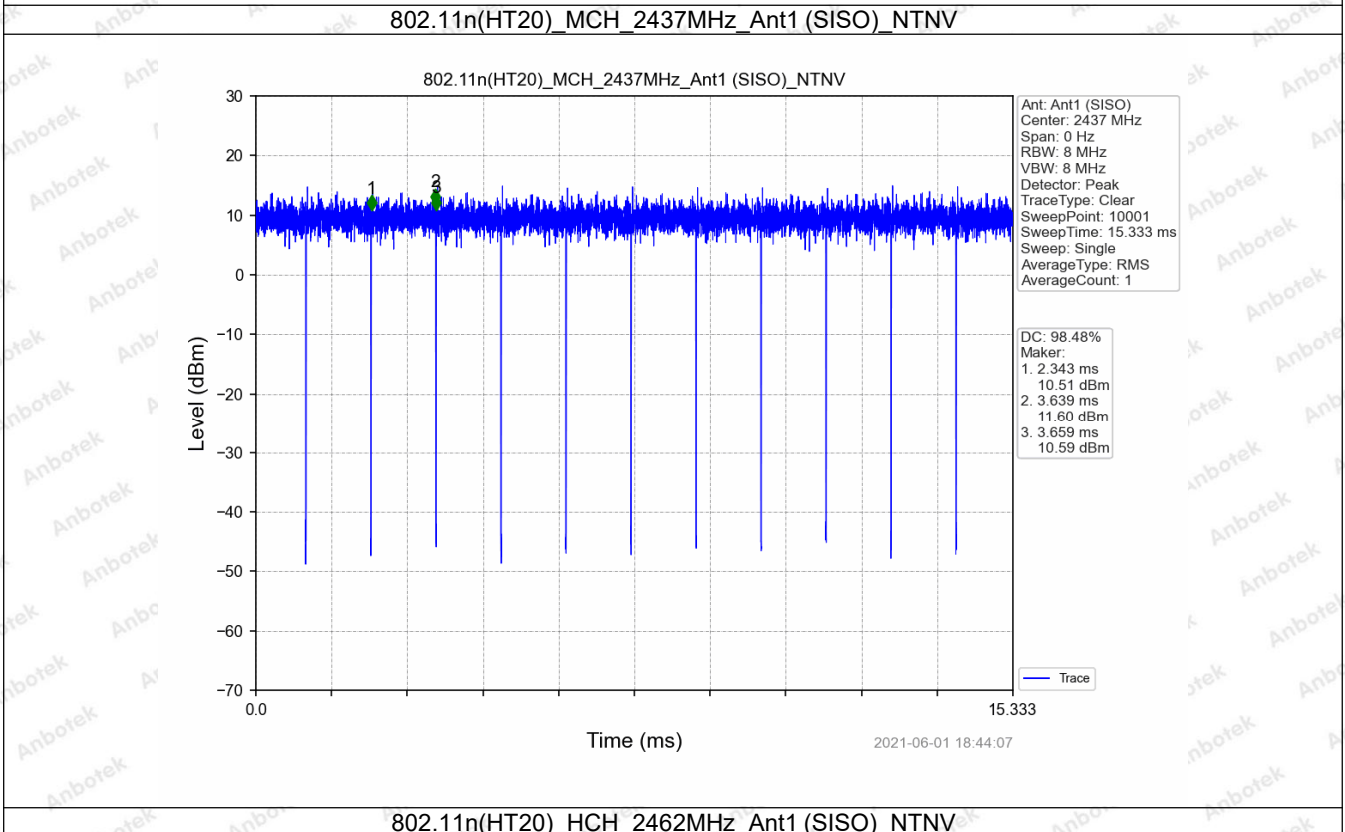
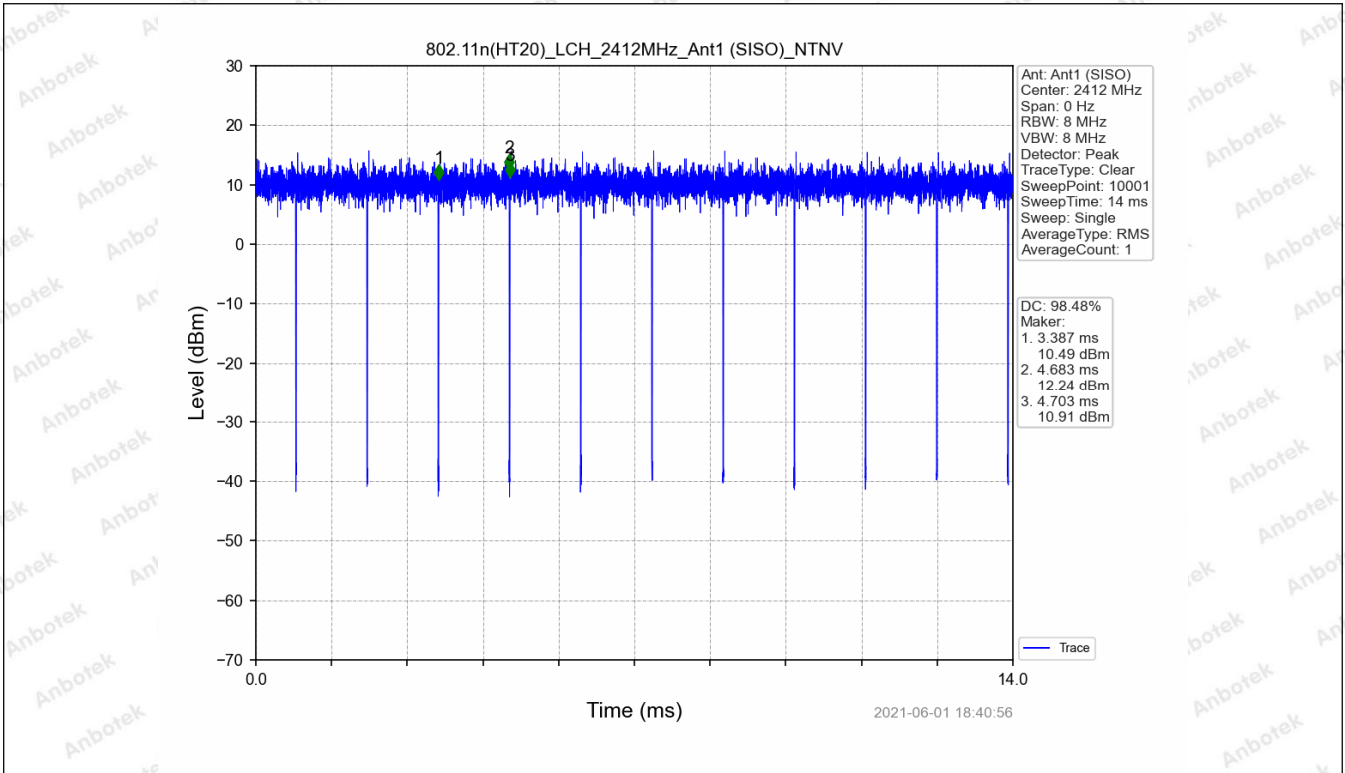
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

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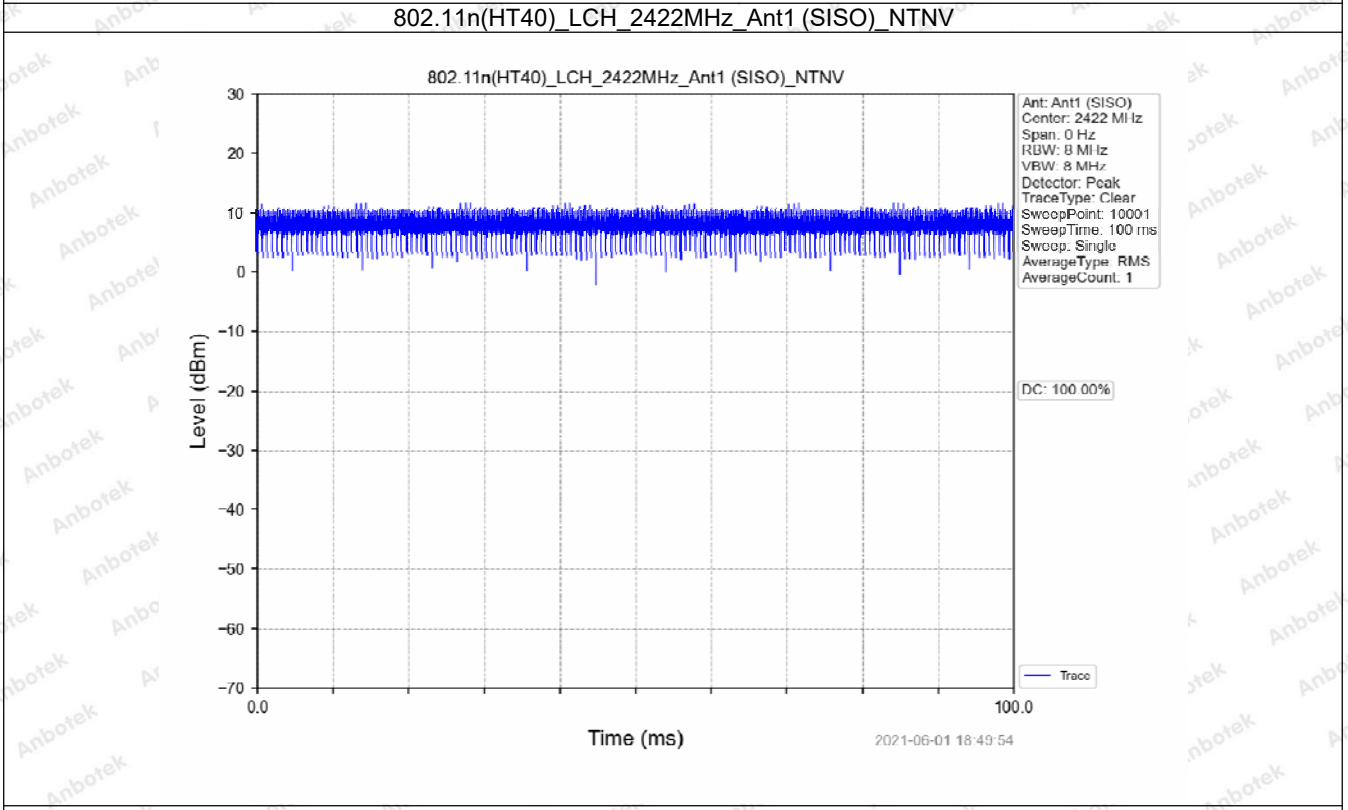
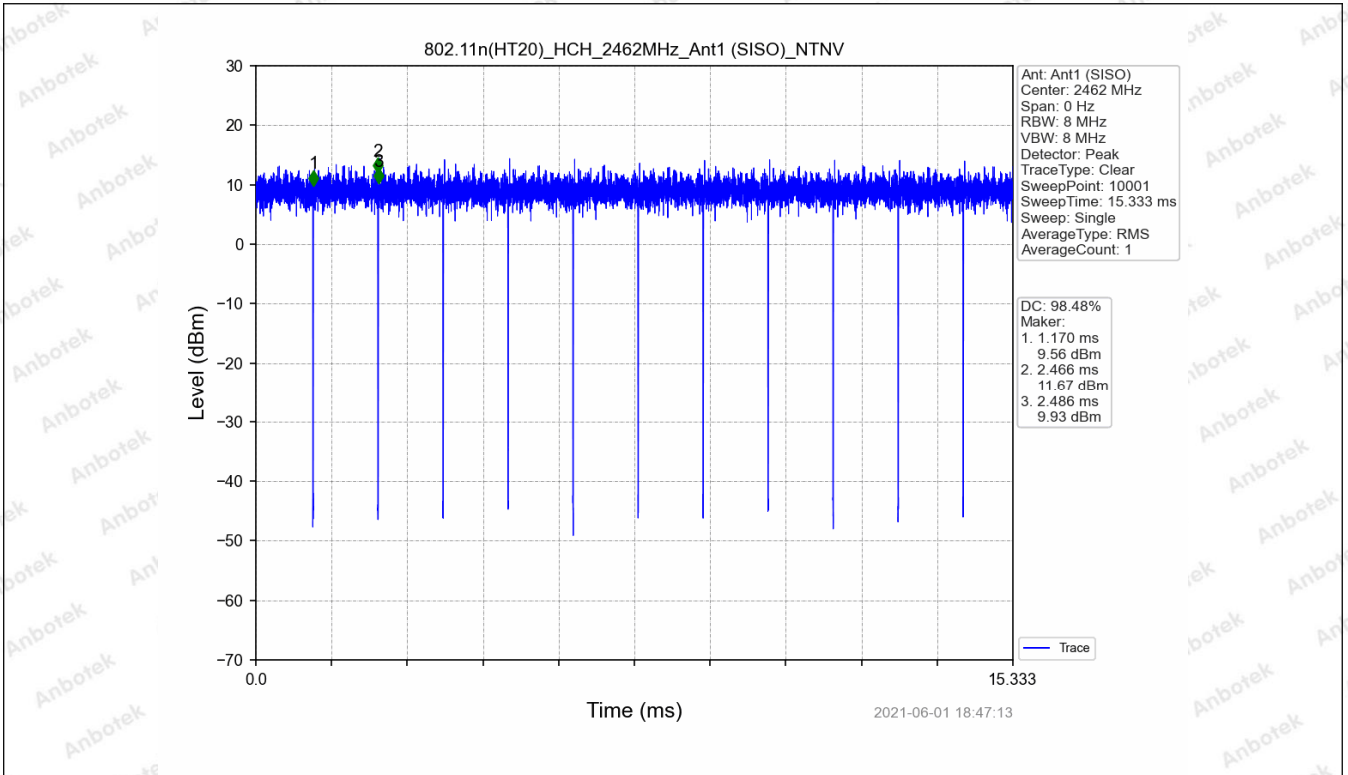
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

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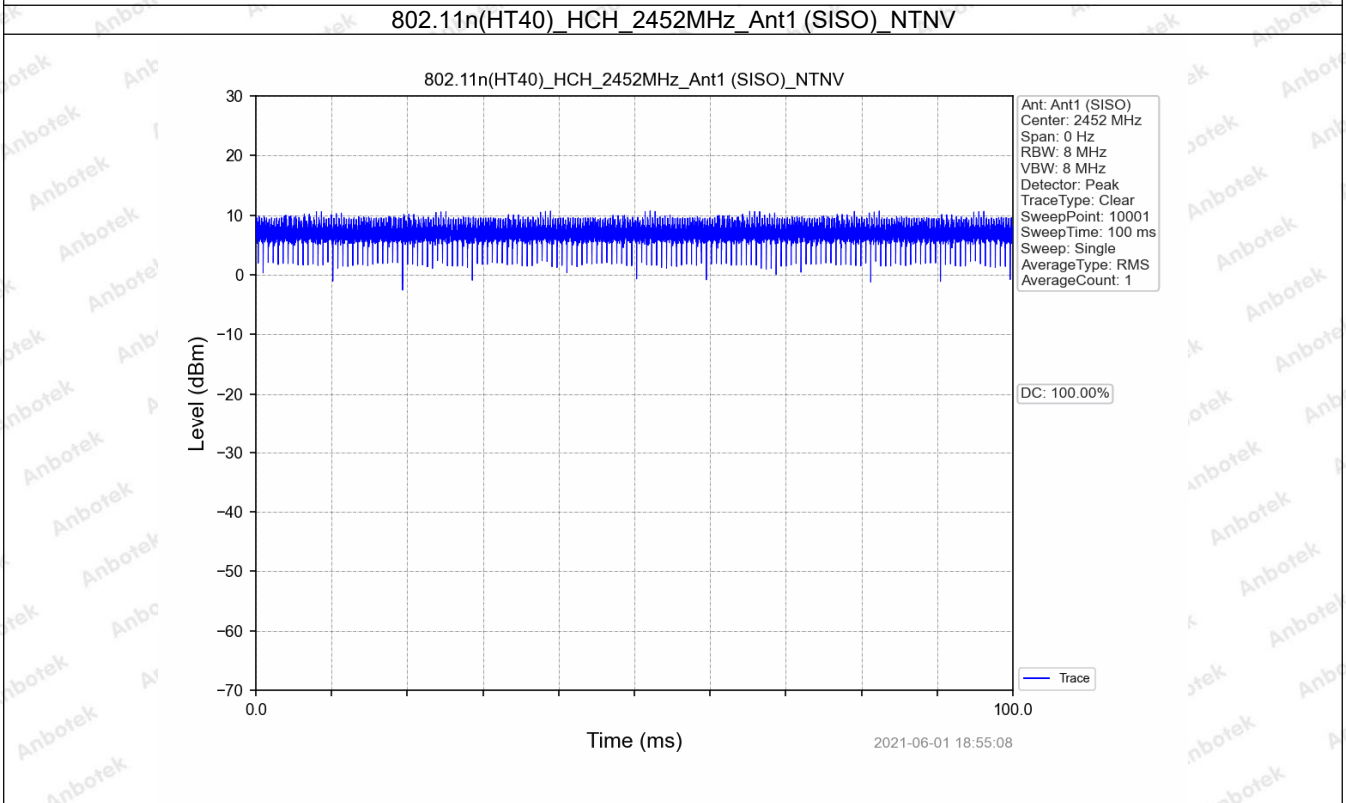
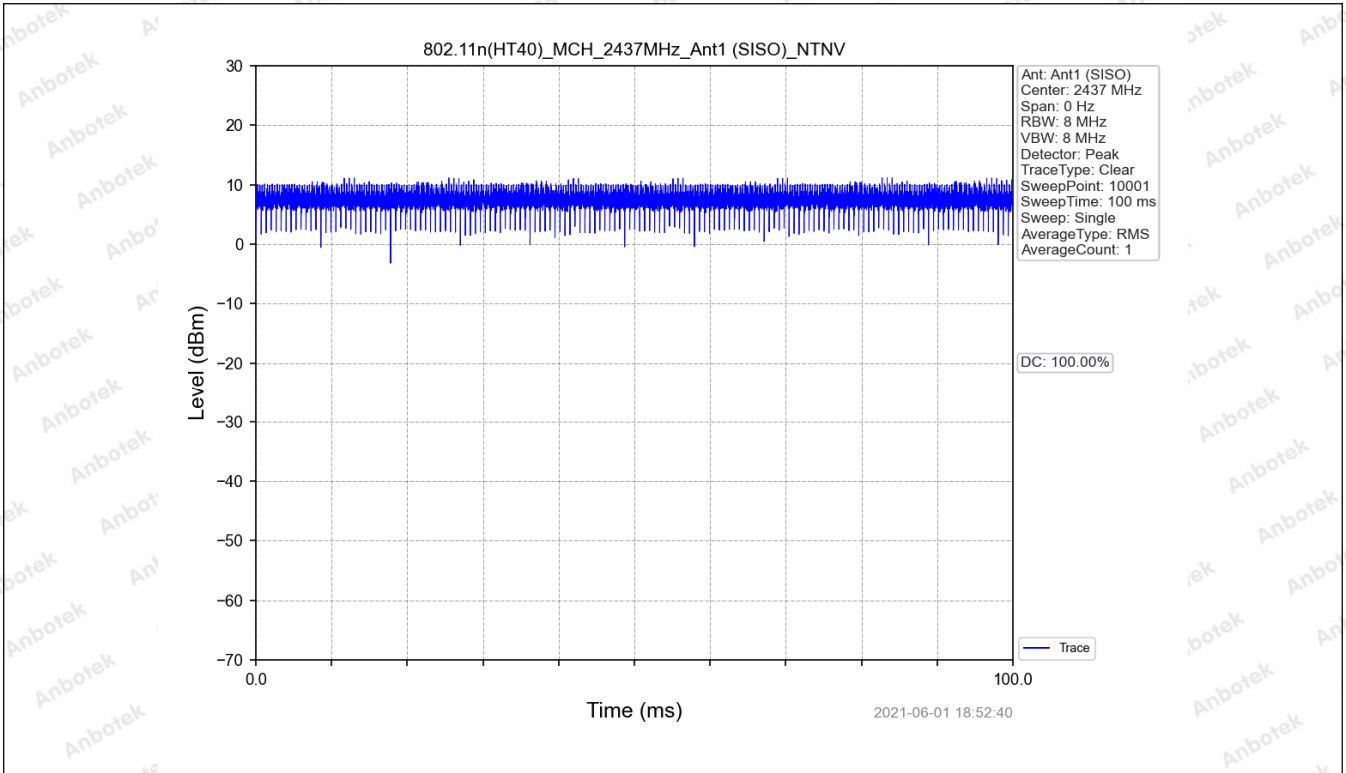
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

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2. Bandwidth

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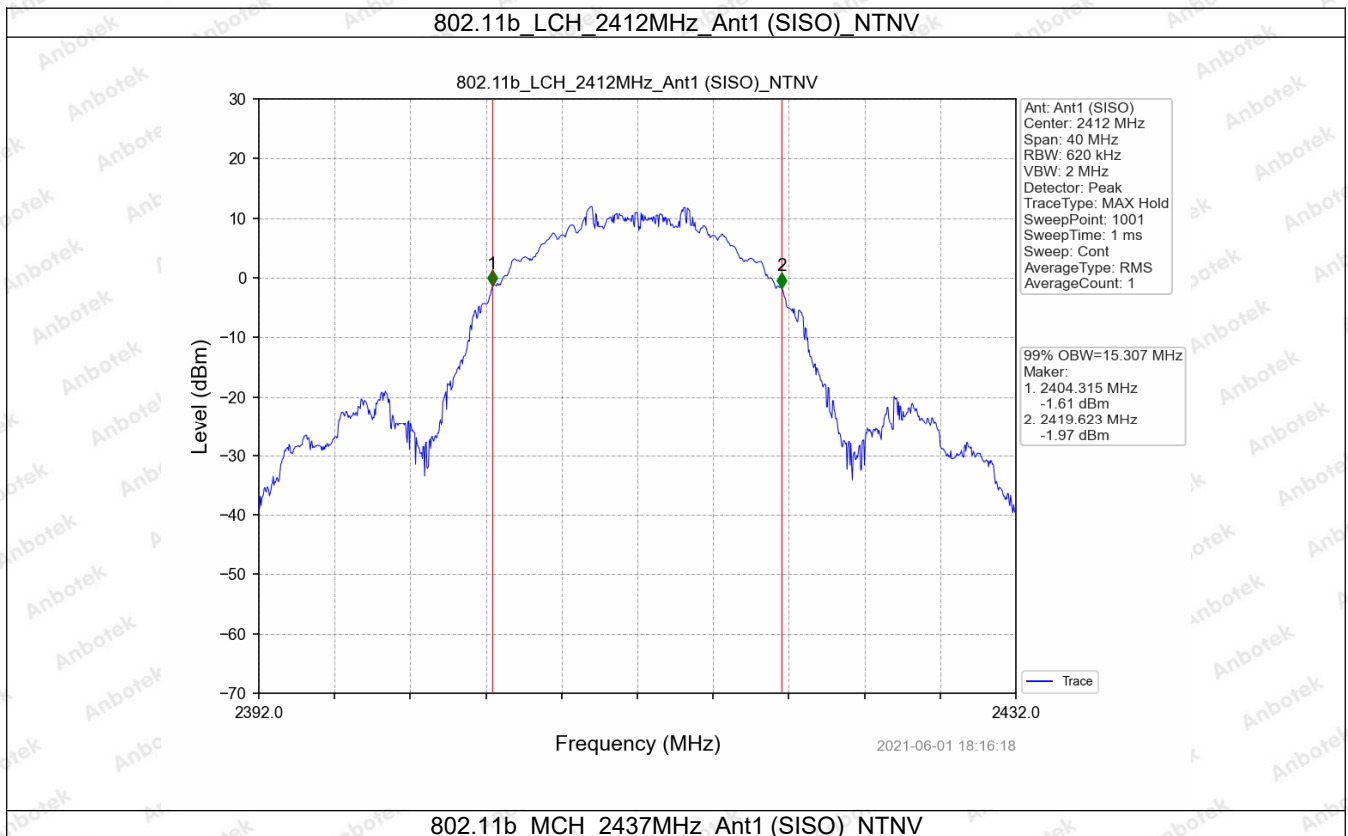
2.1 OBW

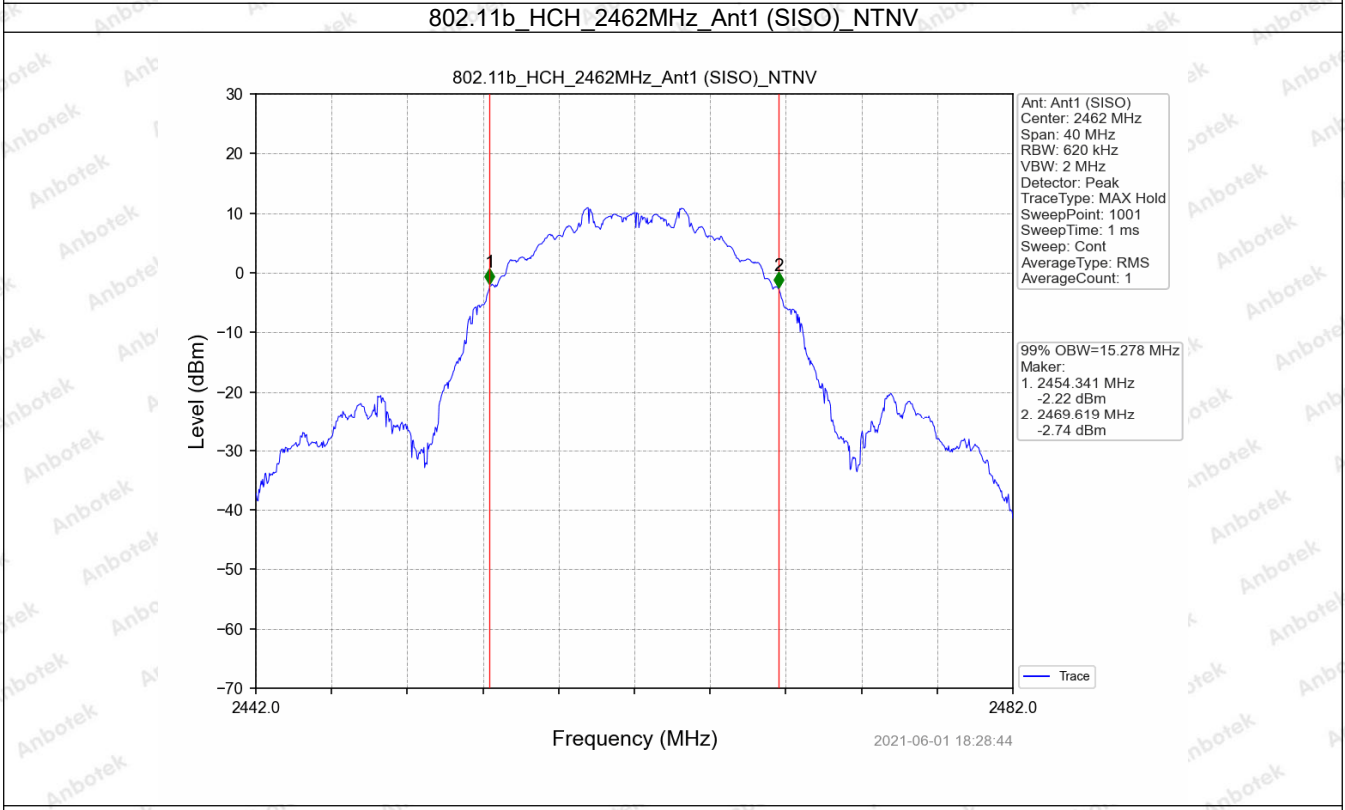
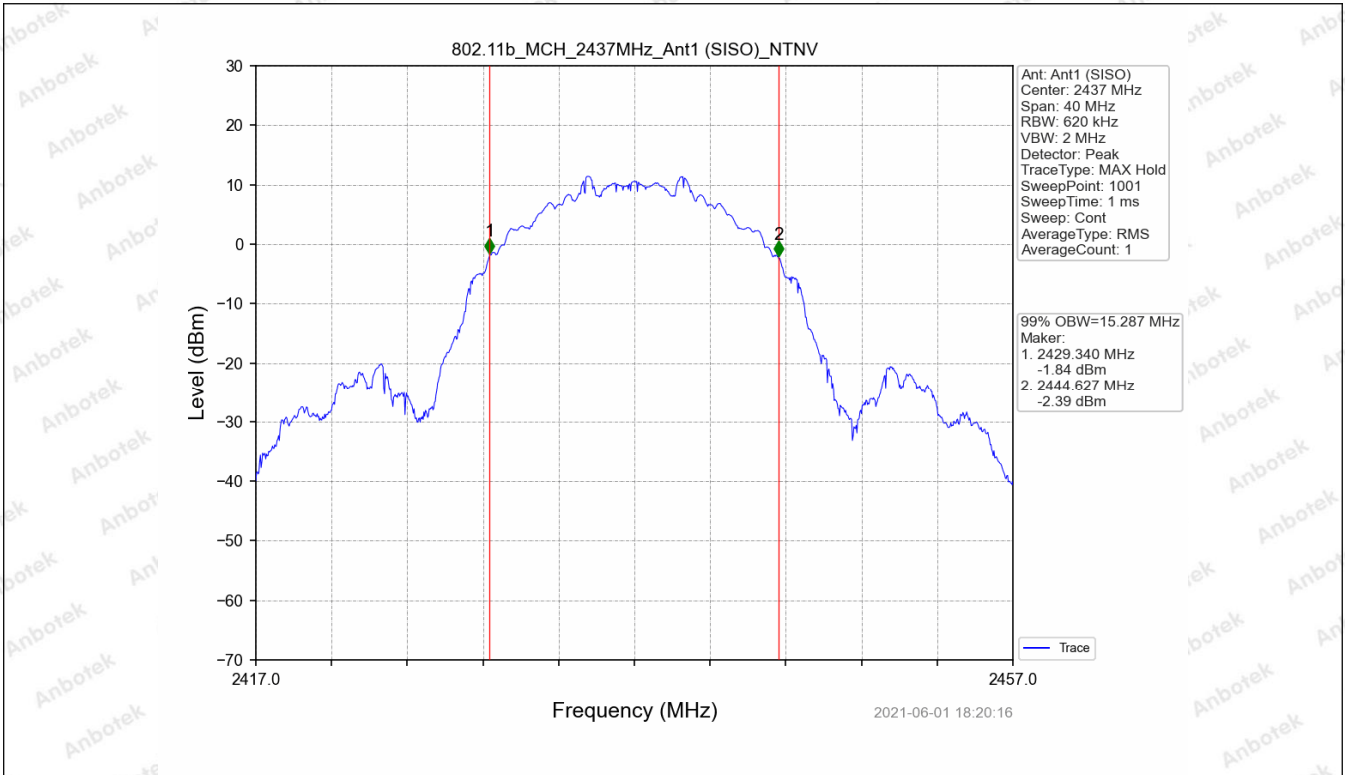
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	15.307	/	Note1
		2437	/	/	15.287	/	Note1
		2462	/	/	15.278	/	Note1
802.11g	SISO	2412	/	/	17.558	/	Note1
		2437	/	/	17.555	/	Note1
		2462	/	/	17.553	/	Note1
802.11n (HT20)	SISO	2412	/	/	18.435	/	Note1
		2437	/	/	18.436	/	Note1
		2462	/	/	18.433	/	Note1
802.11n (HT40)	SISO	2422	/	/	35.767	/	Note1
		2437	/	/	35.758	/	Note1
		2452	/	/	35.762	/	Note1

Note1: Only for Report Use

2.1.2 Test Graph





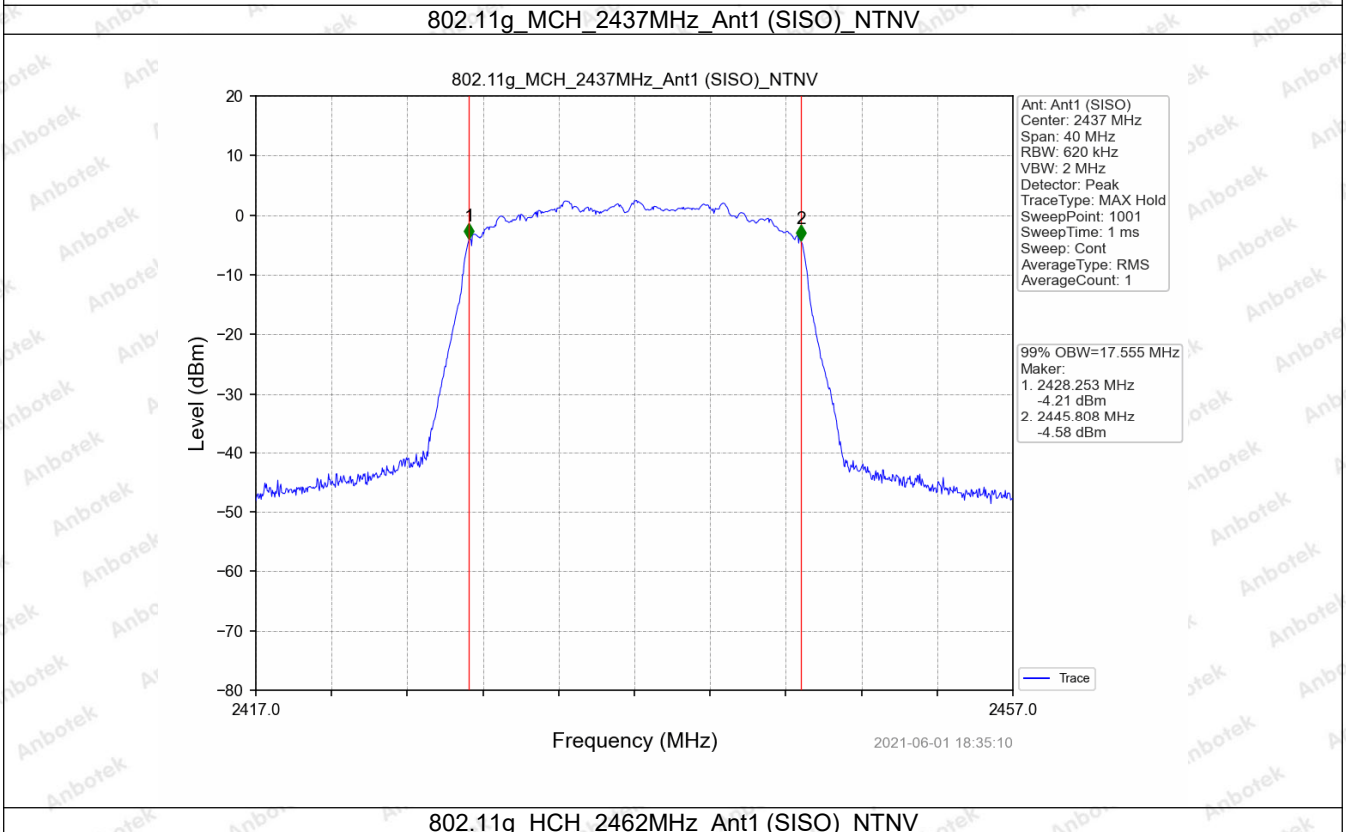
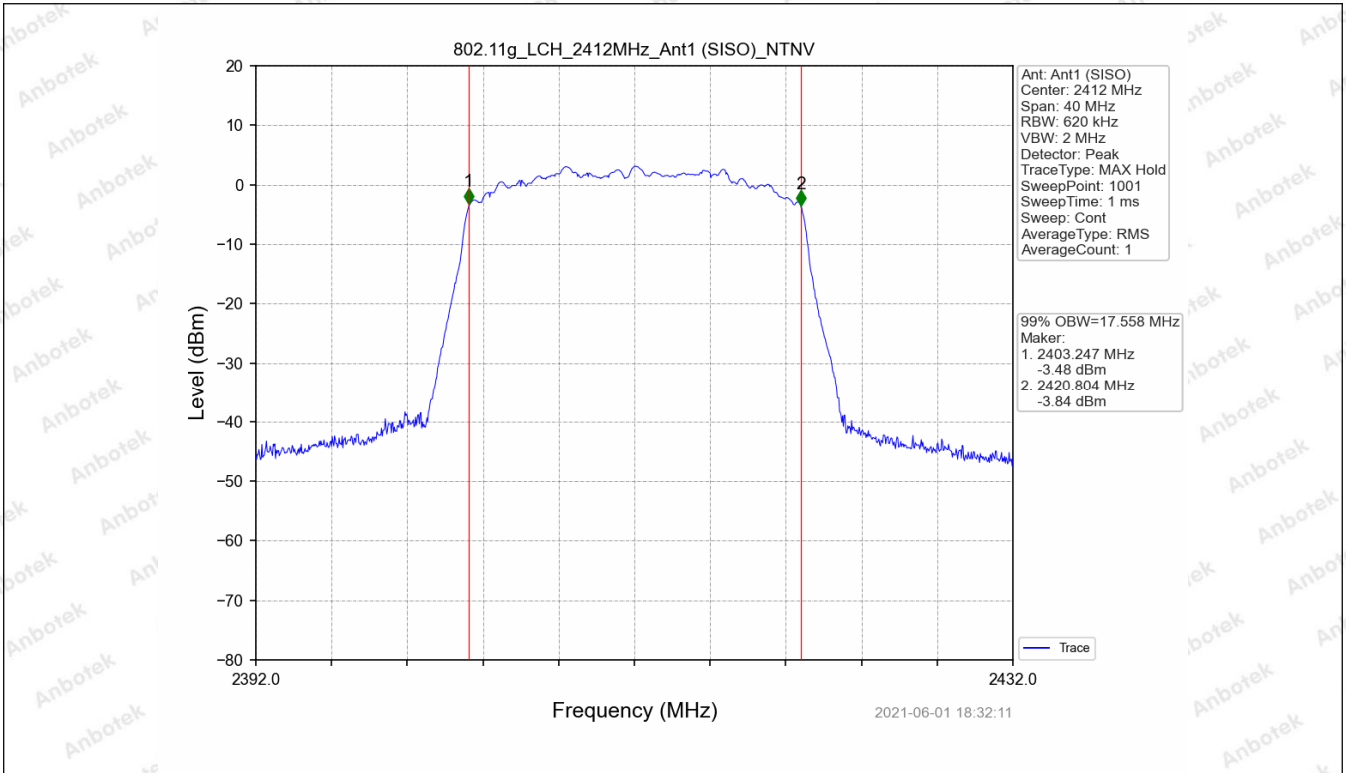
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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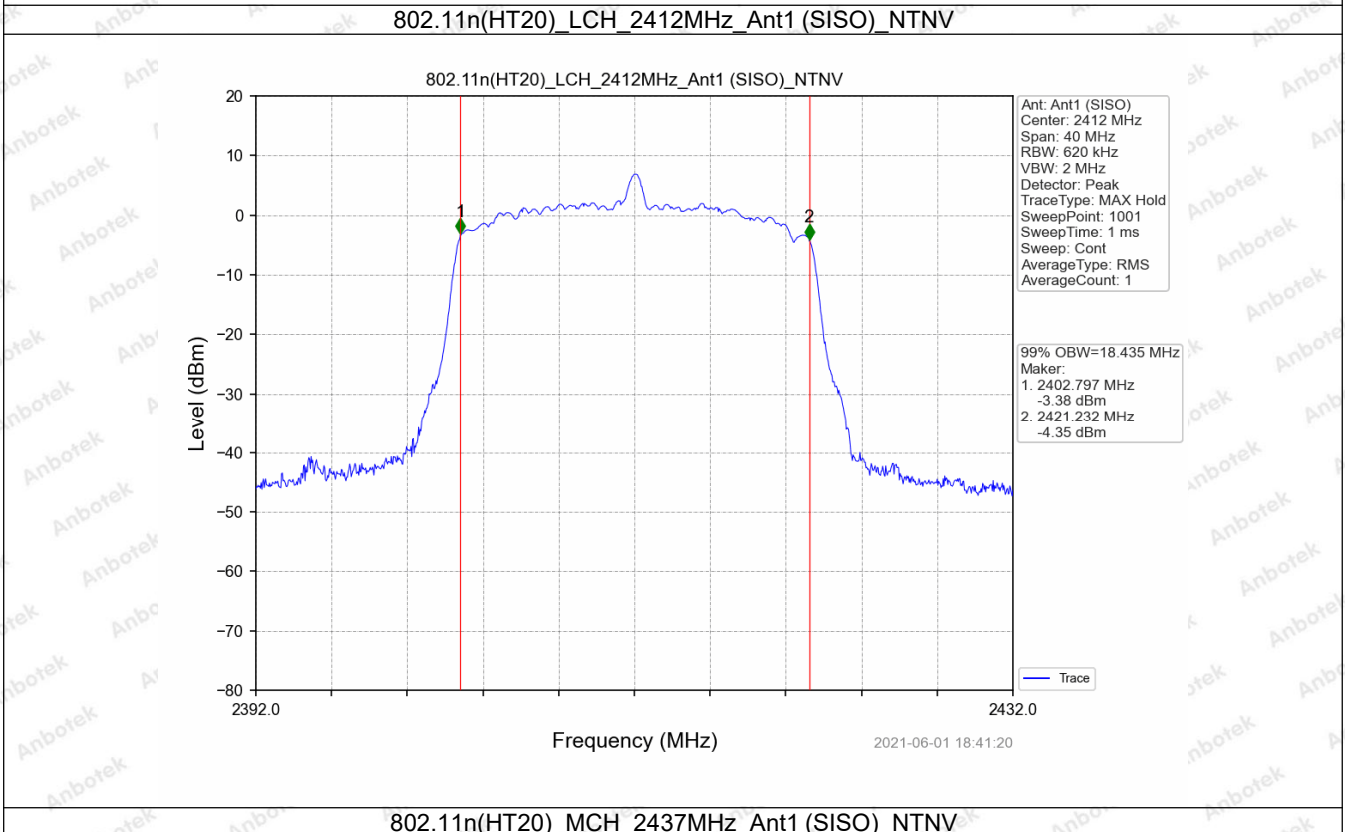
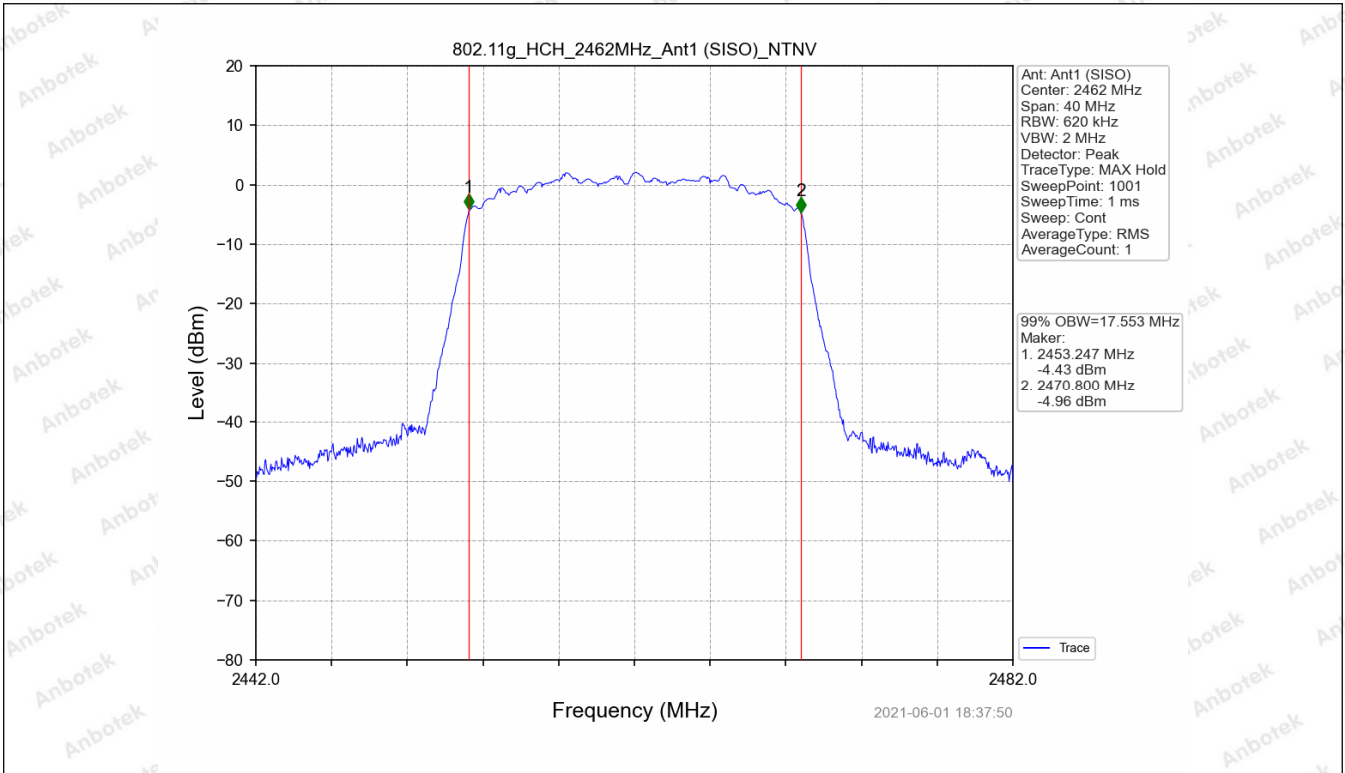
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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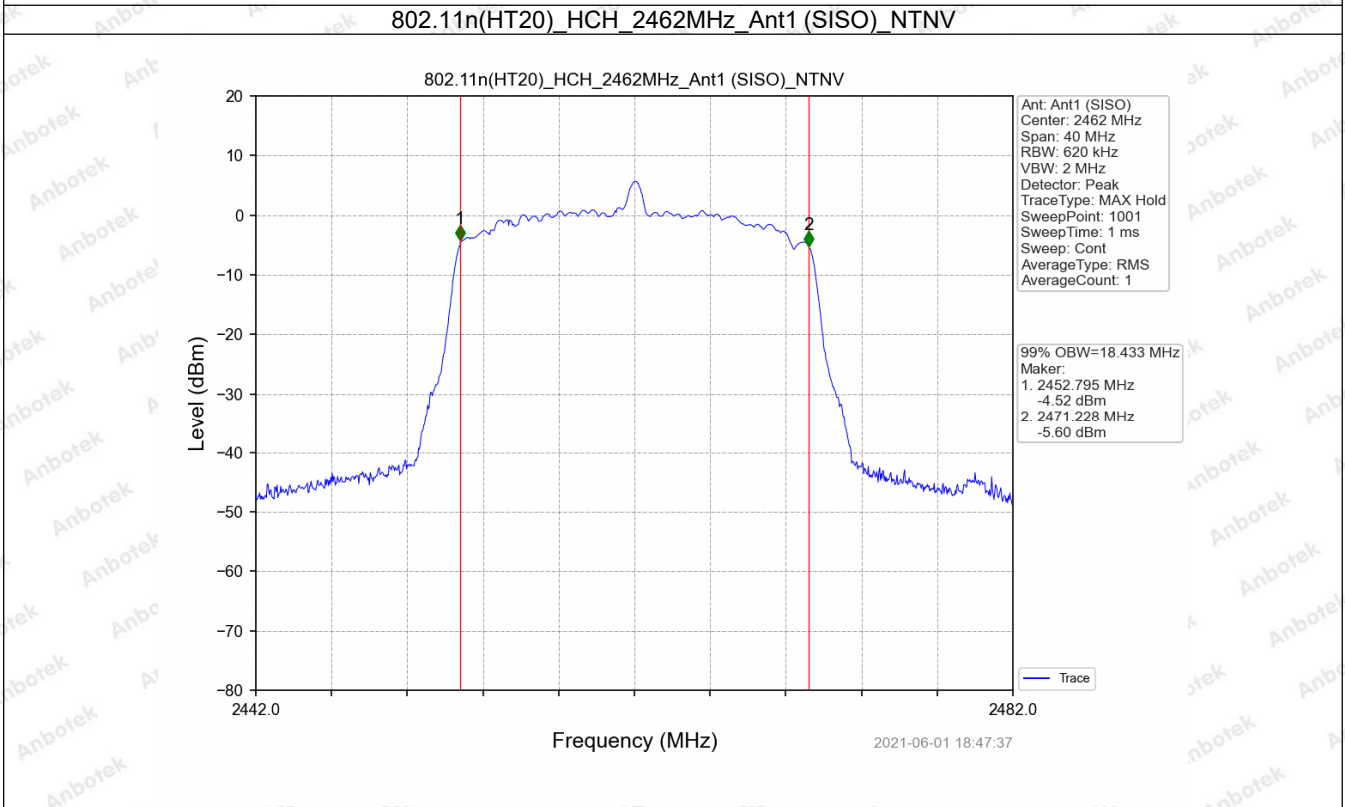
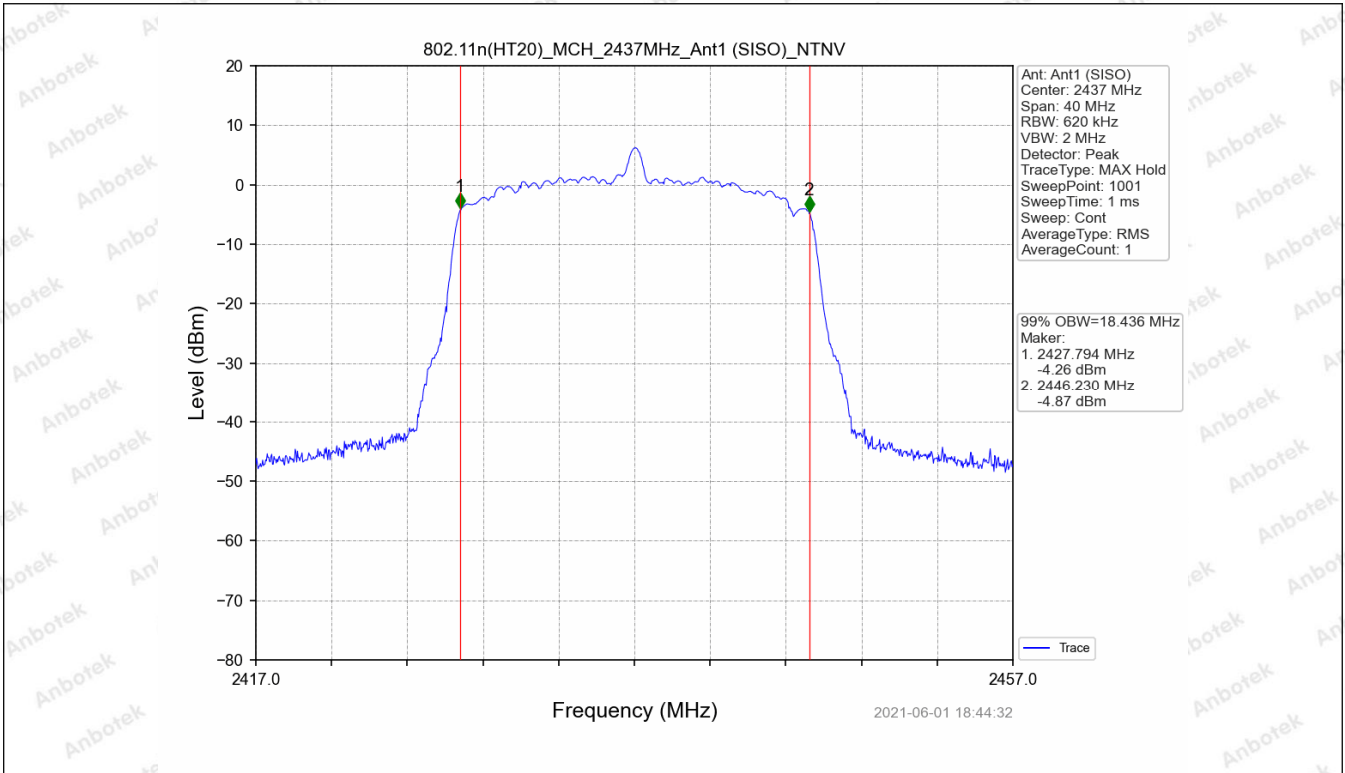
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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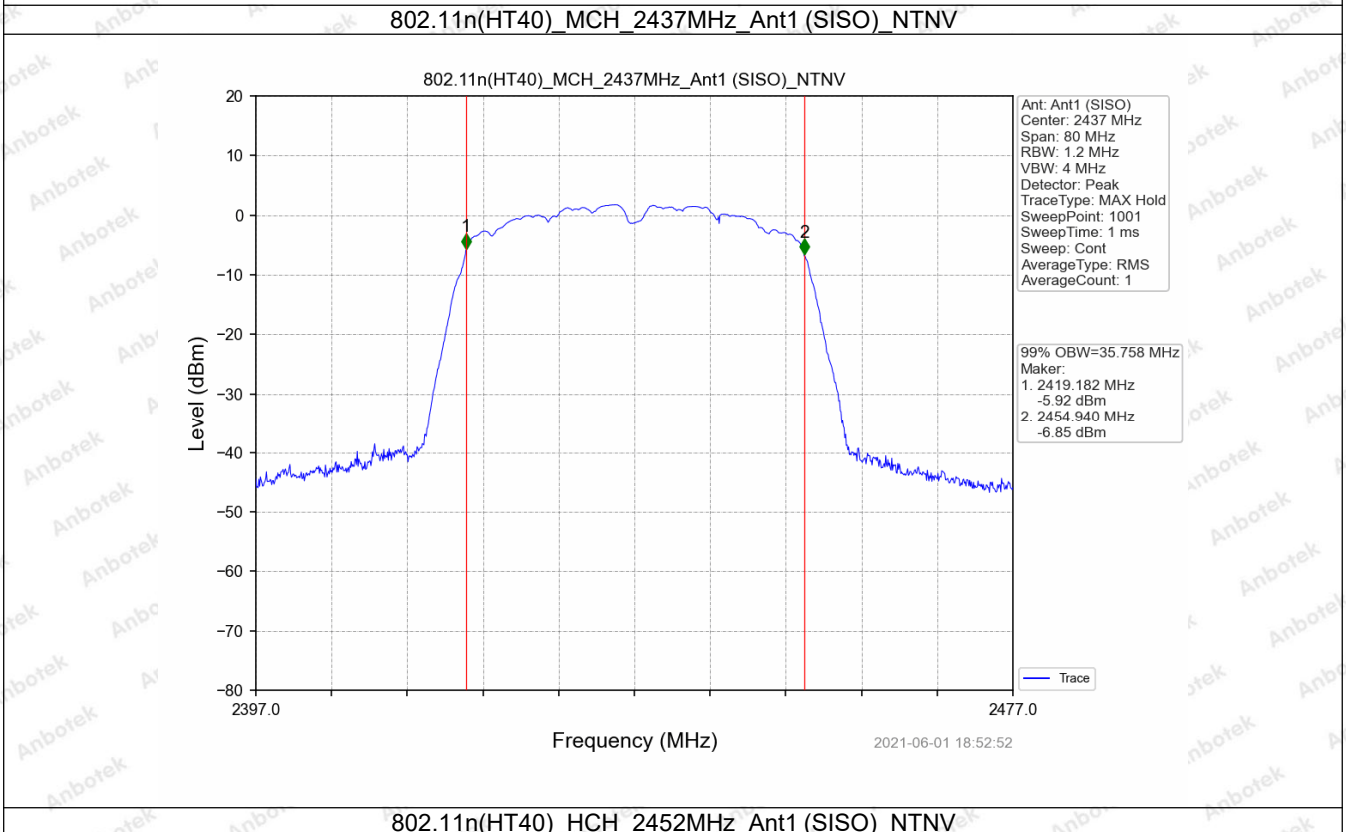
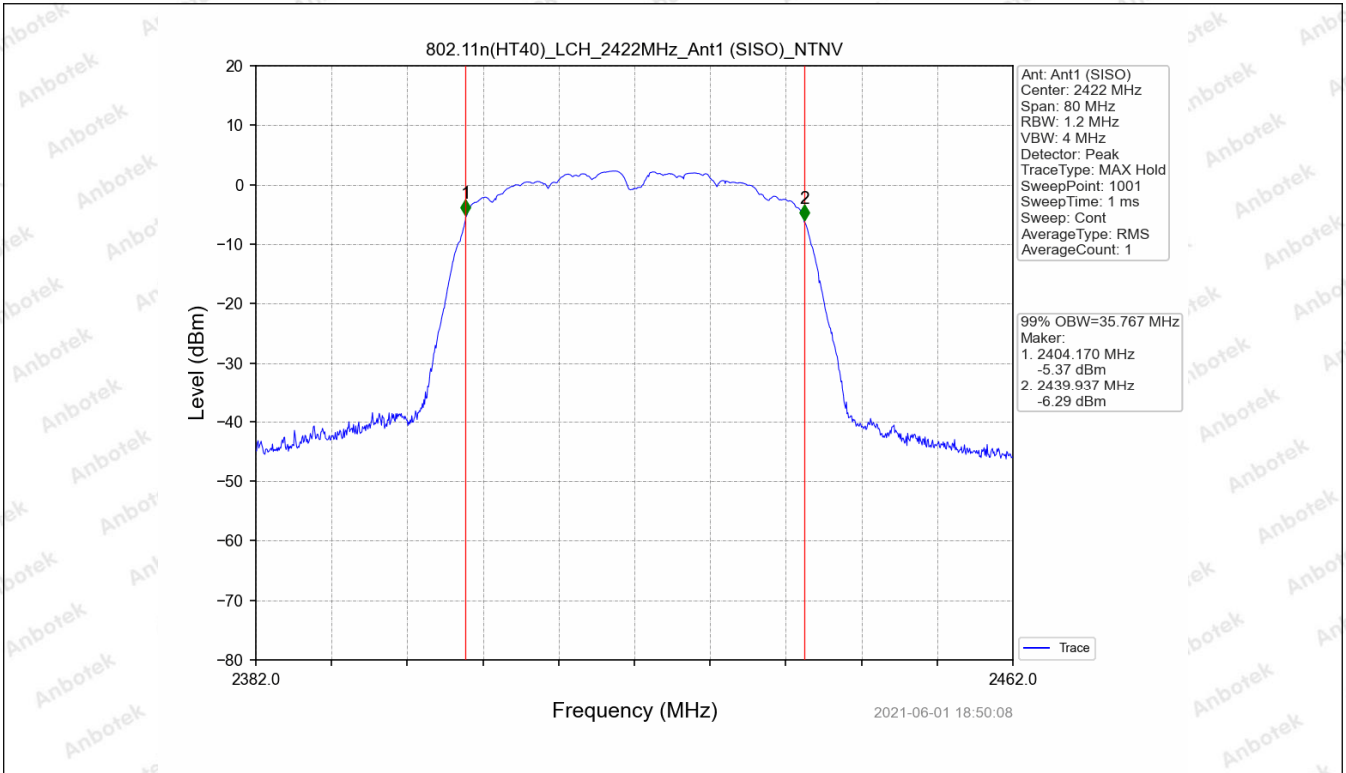
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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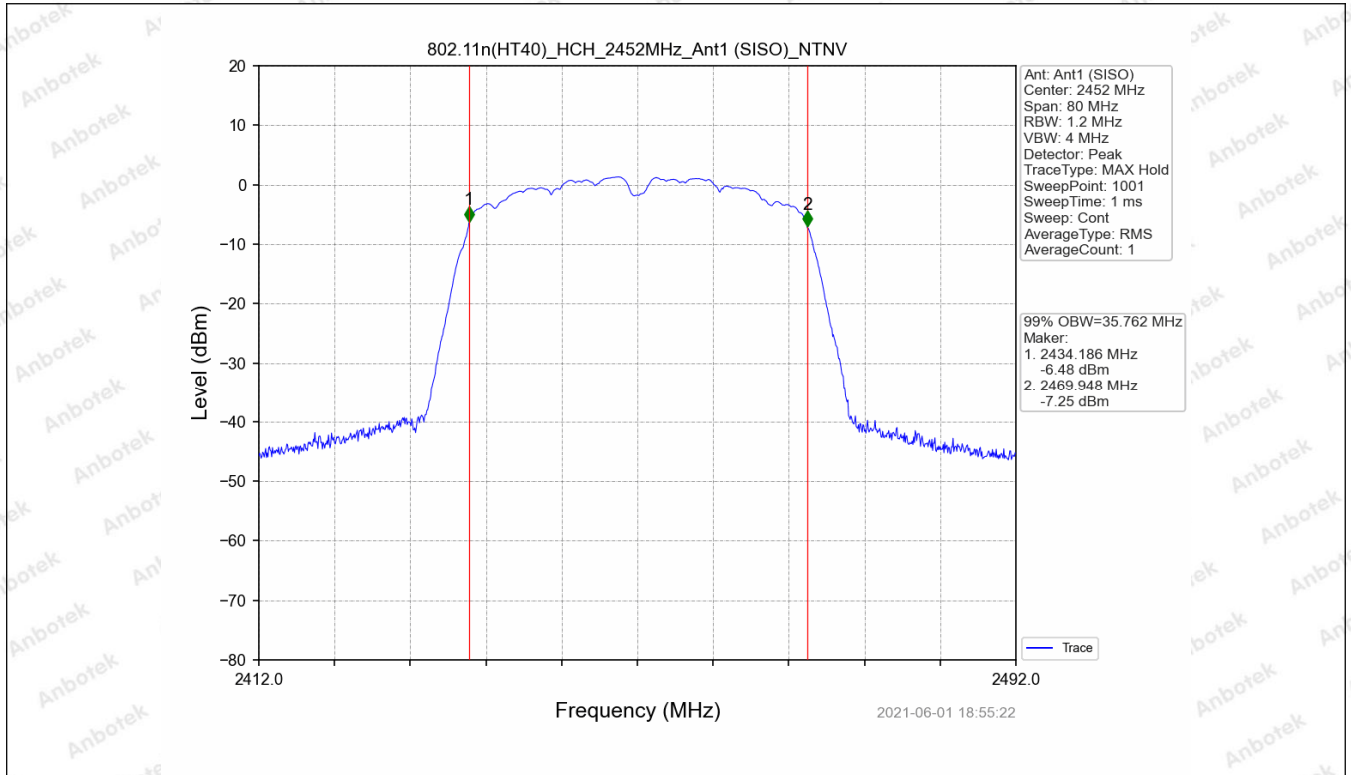
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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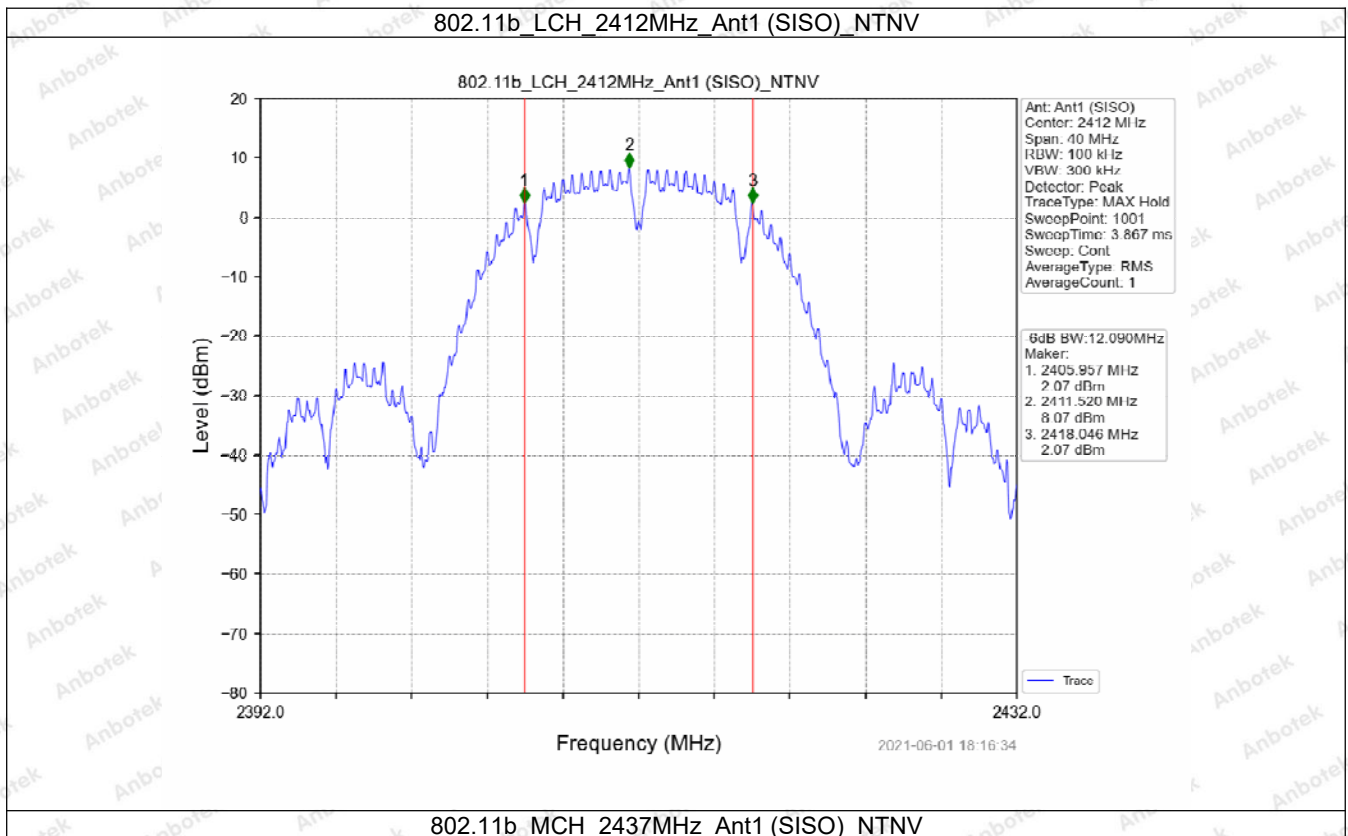
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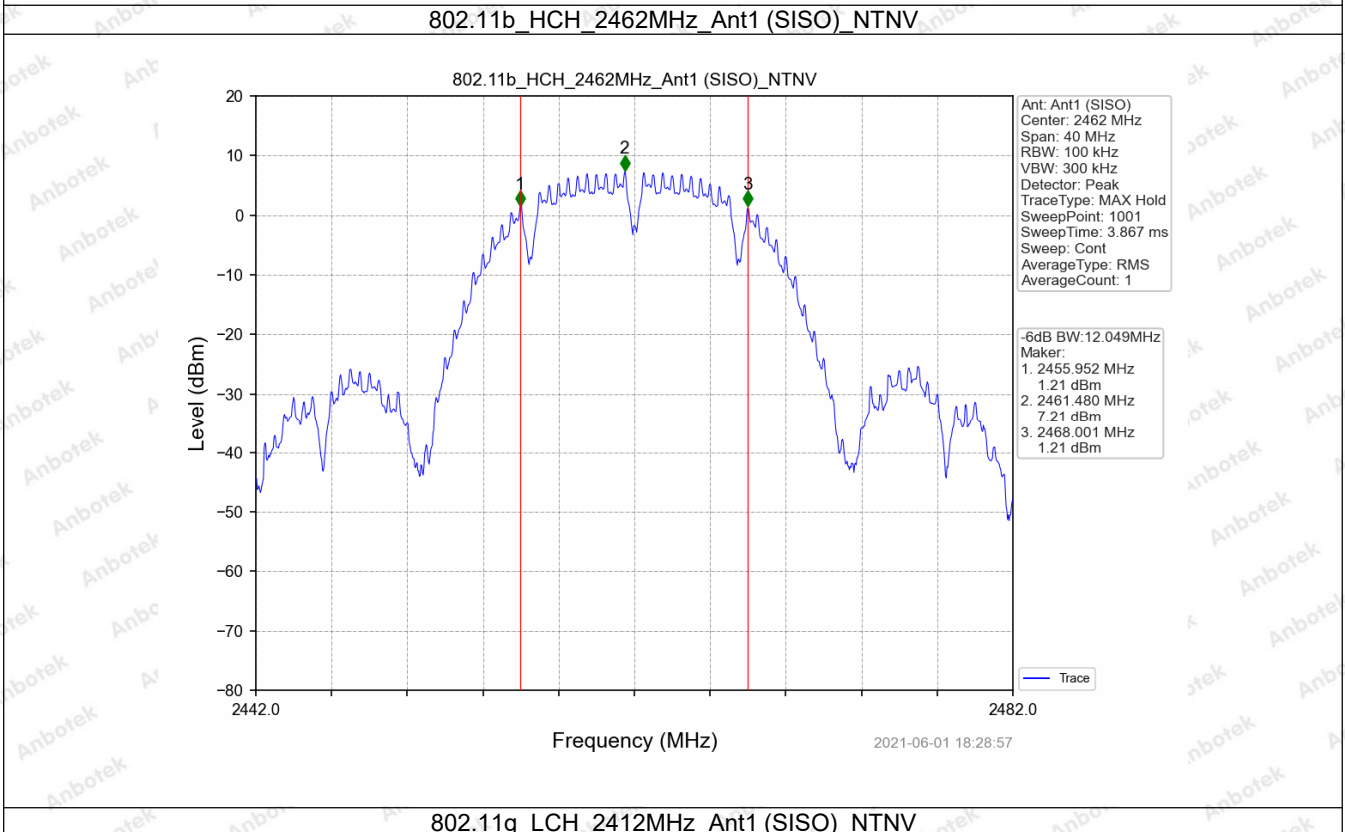
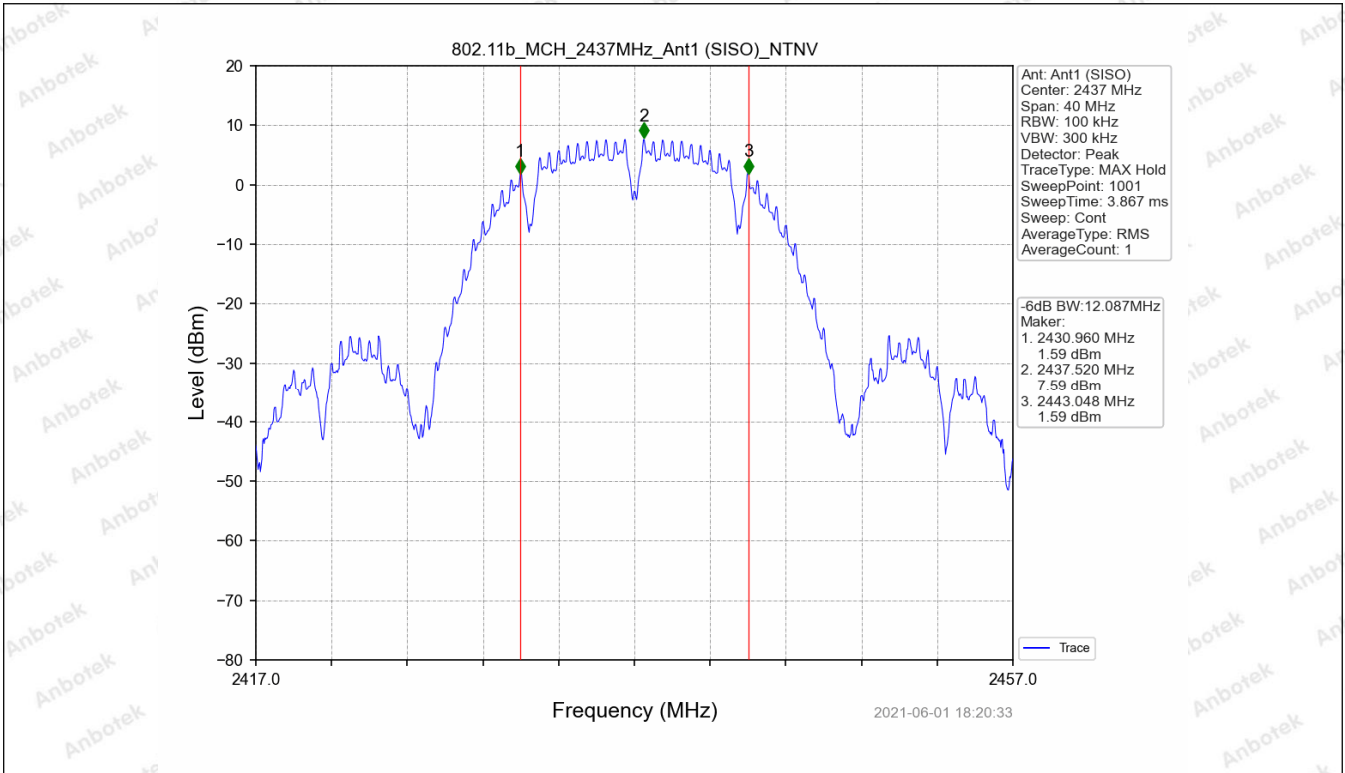
2.2 XDB

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	12.090	>=0.5	Pass
		2437	/	/	12.087	>=0.5	Pass
		2462	/	/	12.049	>=0.5	Pass
802.11g	SISO	2412	/	/	15.182	>=0.5	Pass
		2437	/	/	15.180	>=0.5	Pass
		2462	/	/	15.181	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	15.067	>=0.5	Pass
		2437	/	/	15.069	>=0.5	Pass
		2462	/	/	15.062	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	35.112	>=0.5	Pass
		2437	/	/	35.114	>=0.5	Pass
		2452	/	/	35.105	>=0.5	Pass

2.2.2 Test Graph





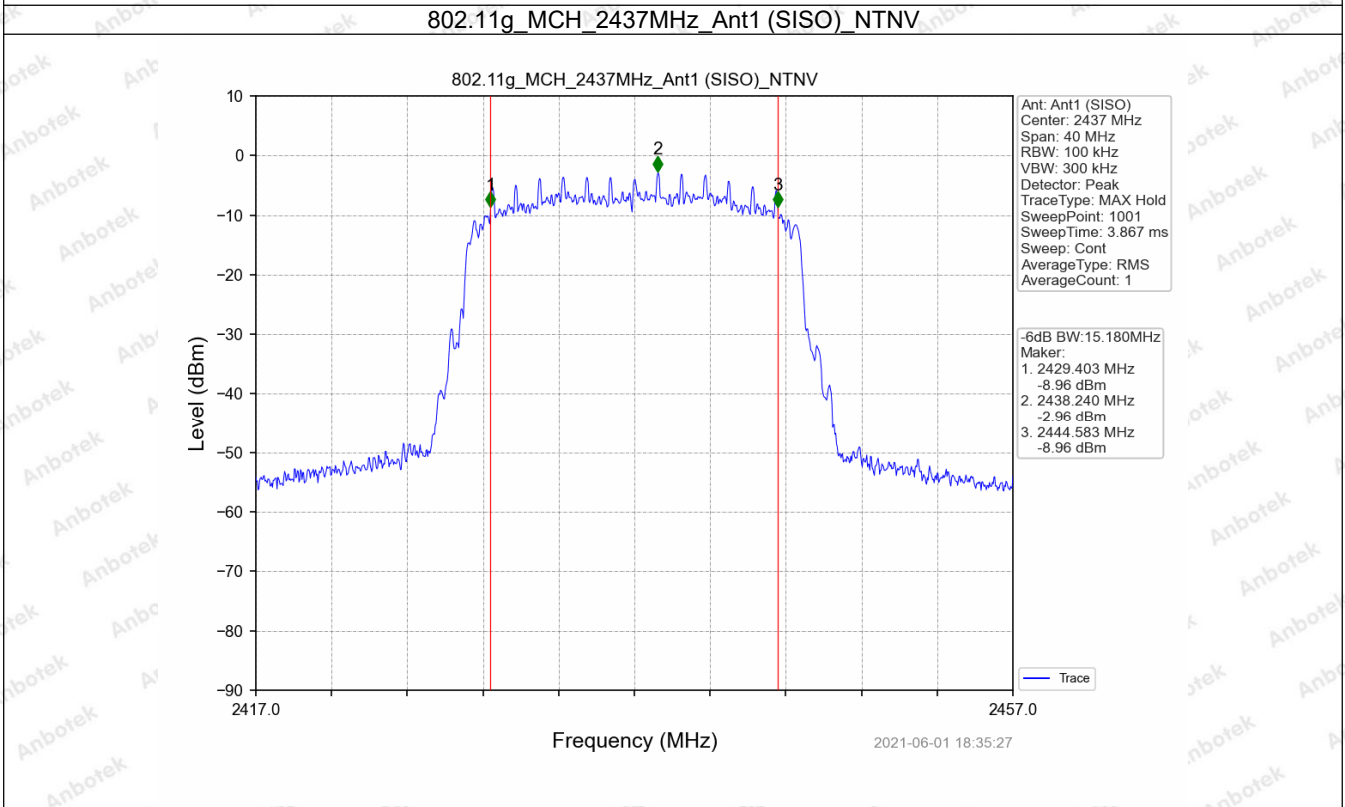
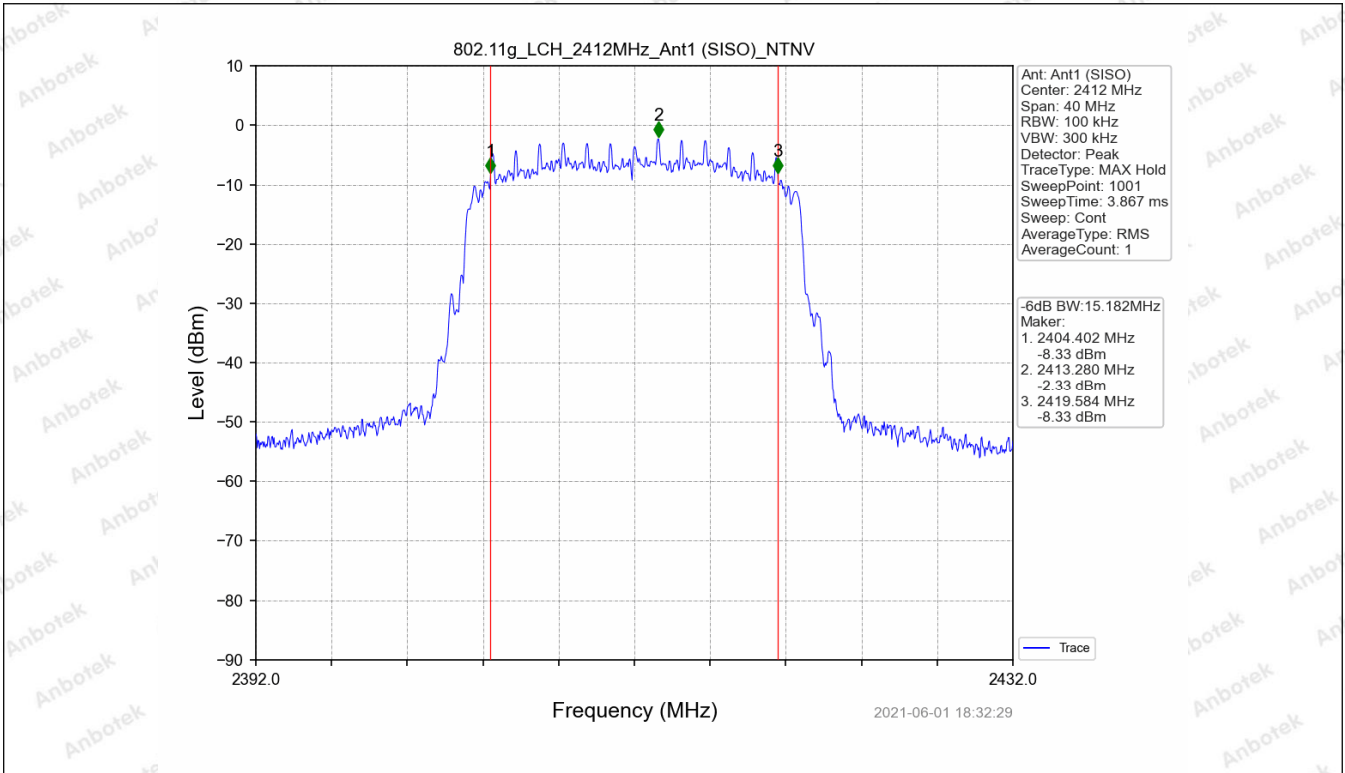
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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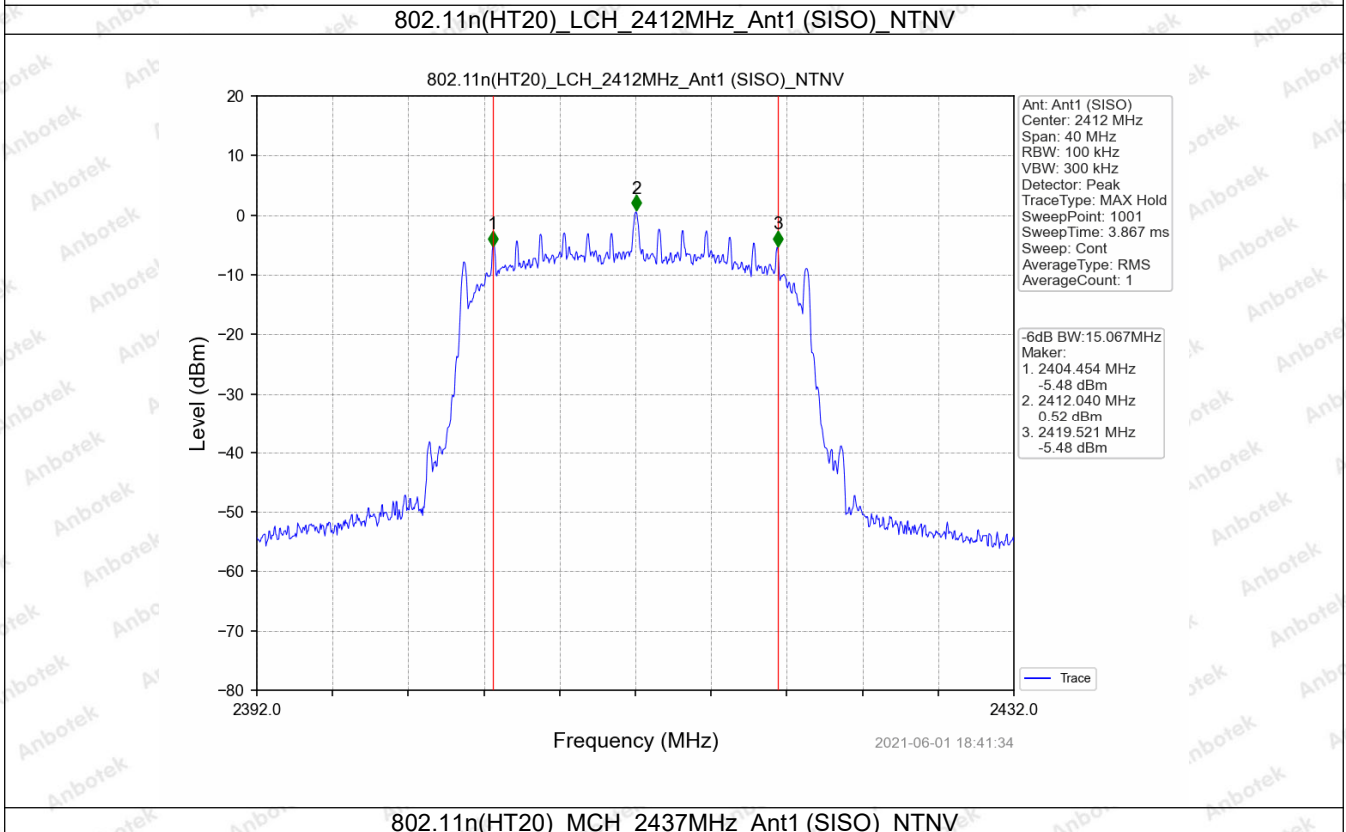
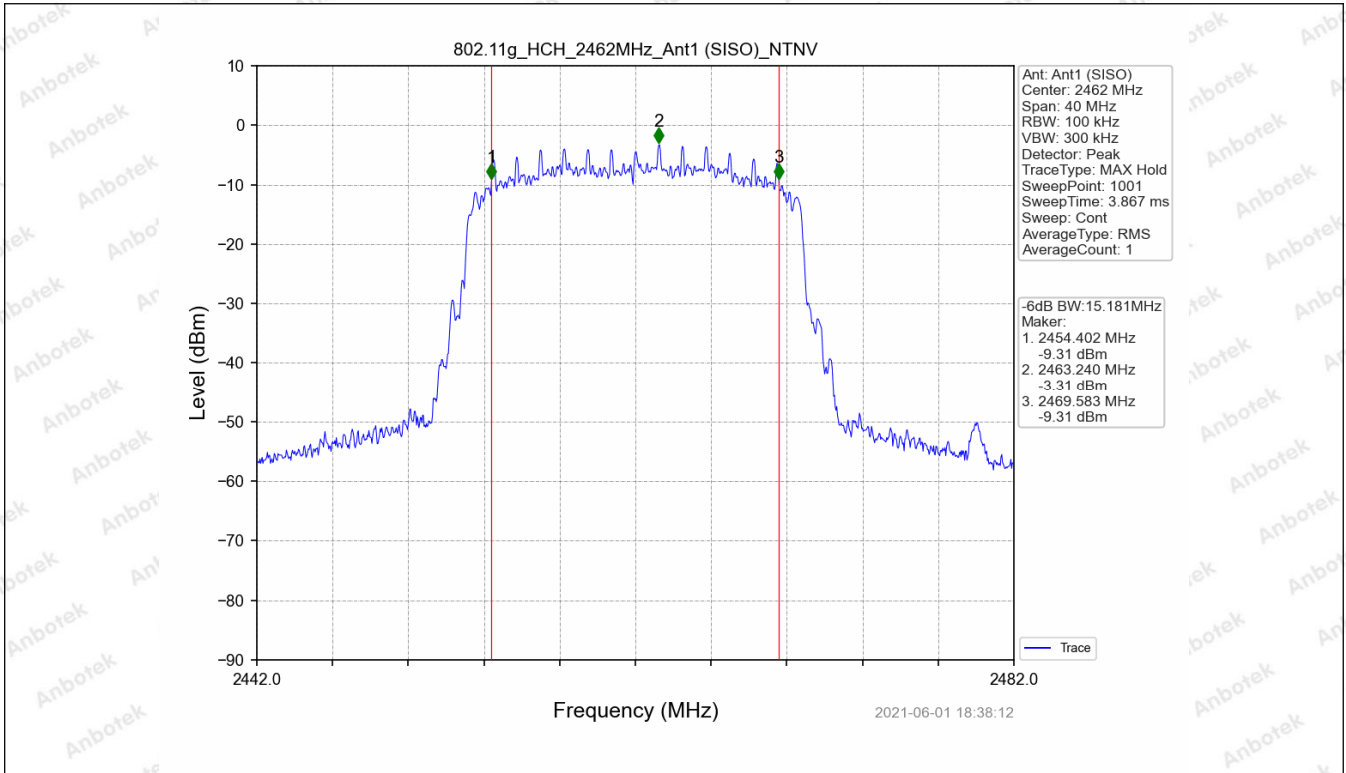
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



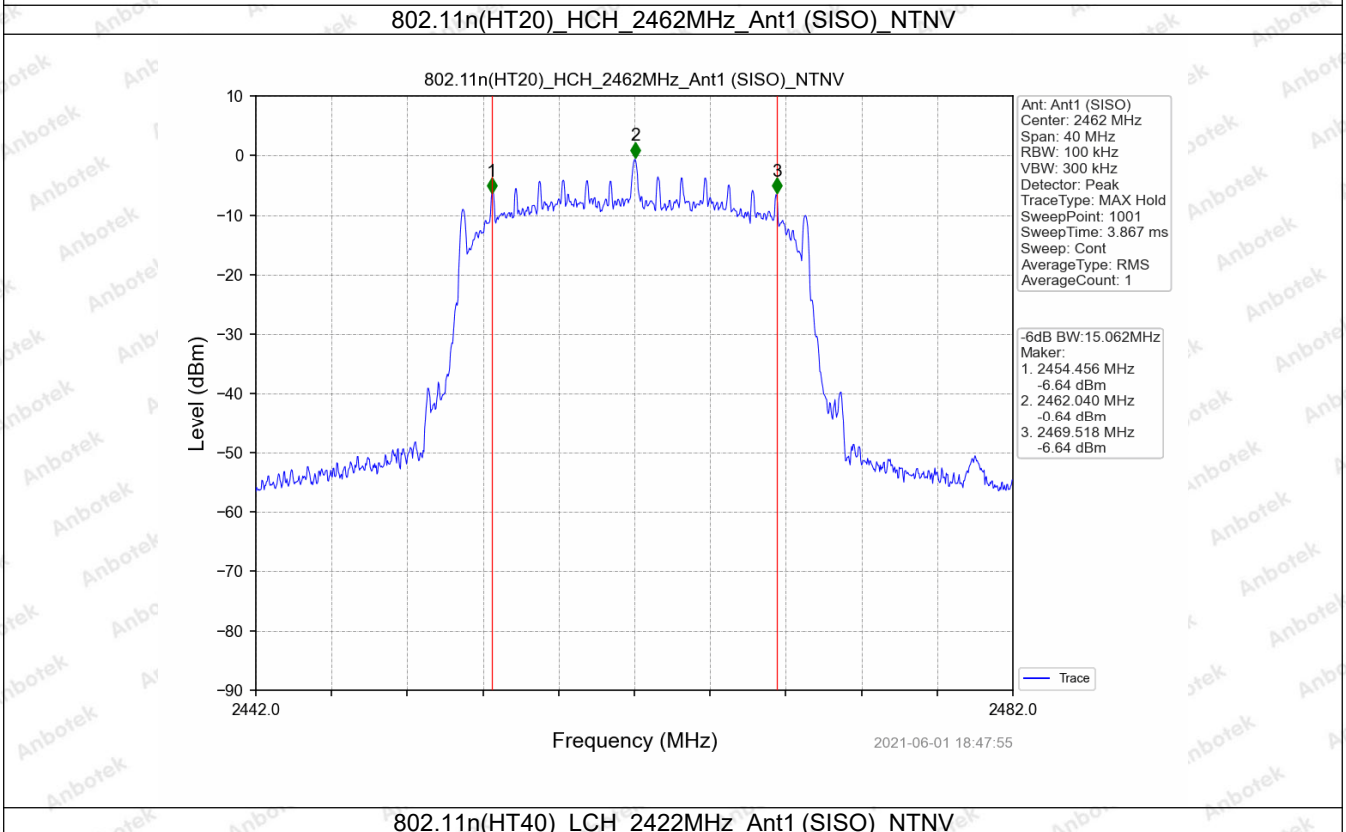
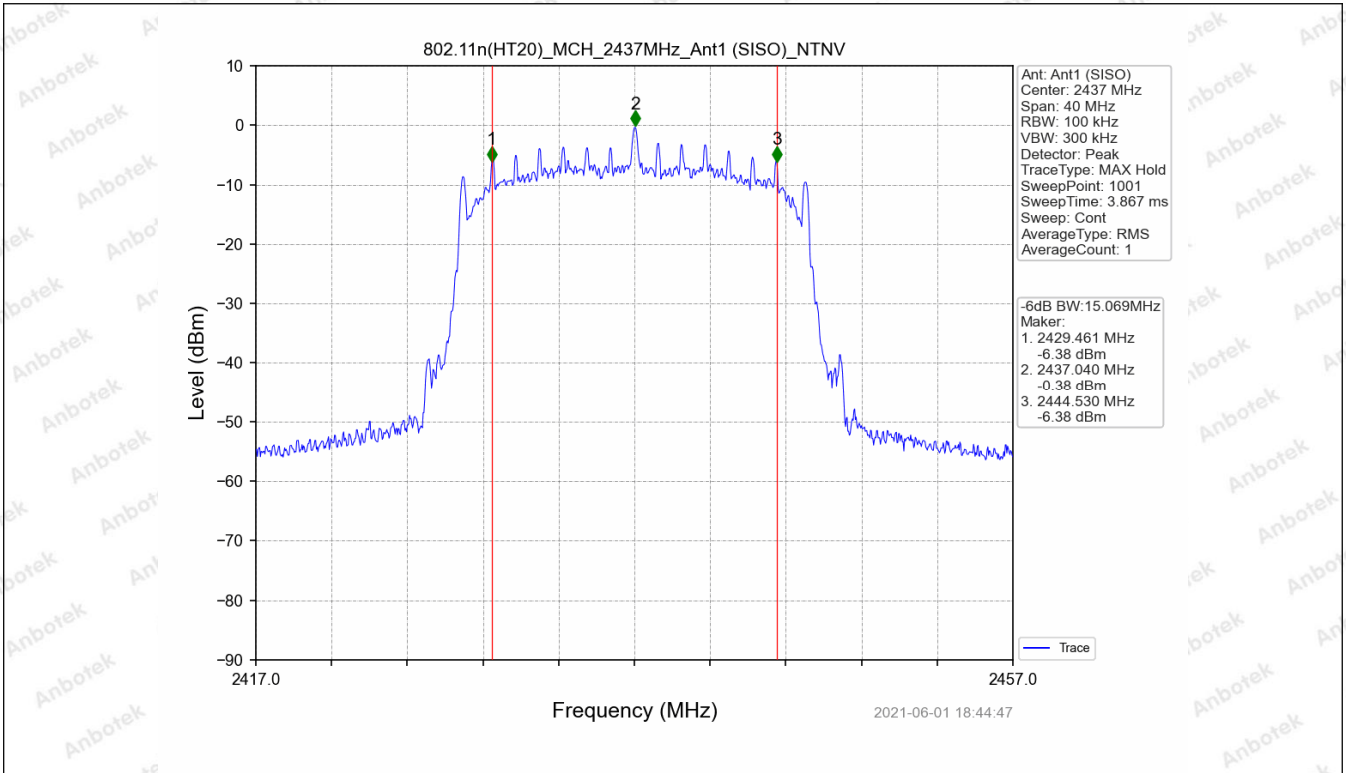
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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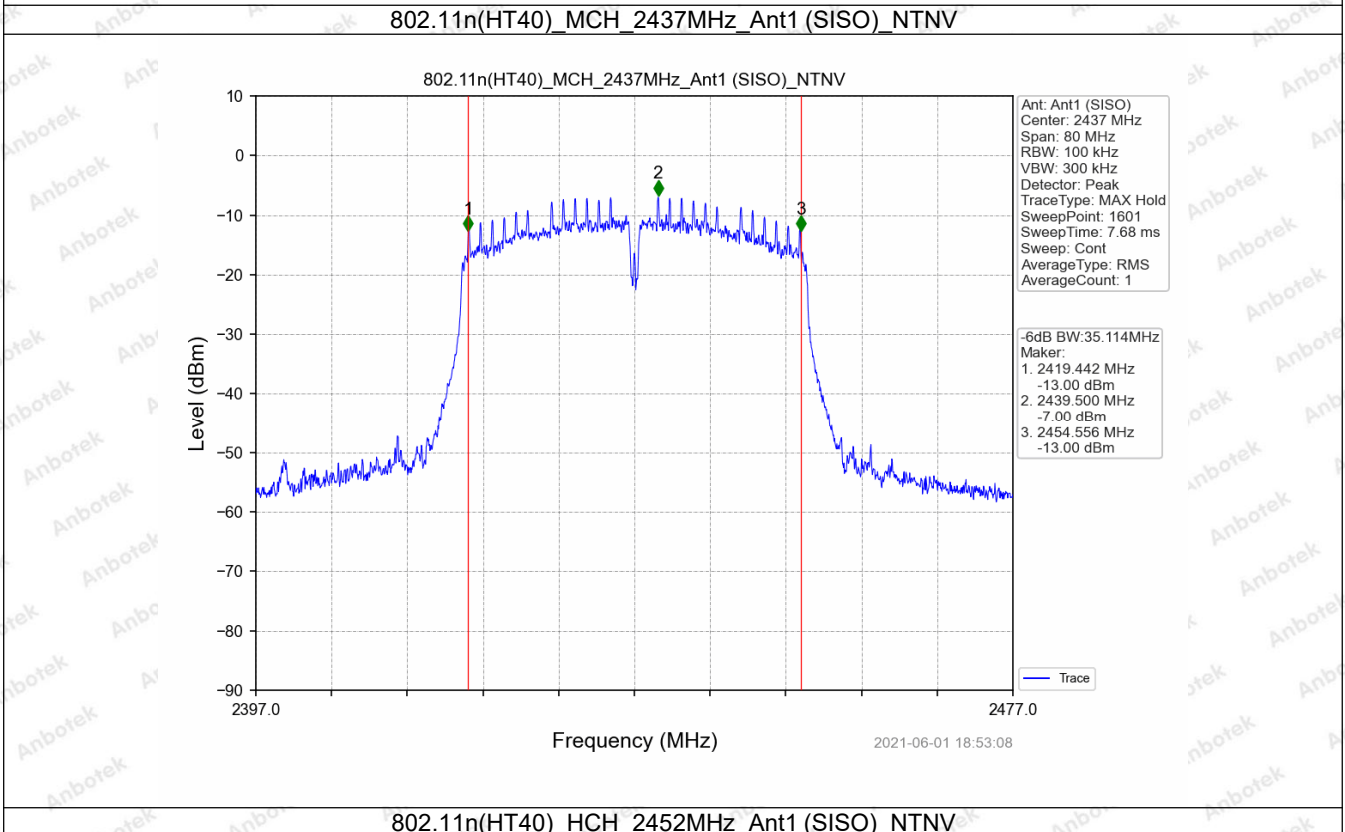
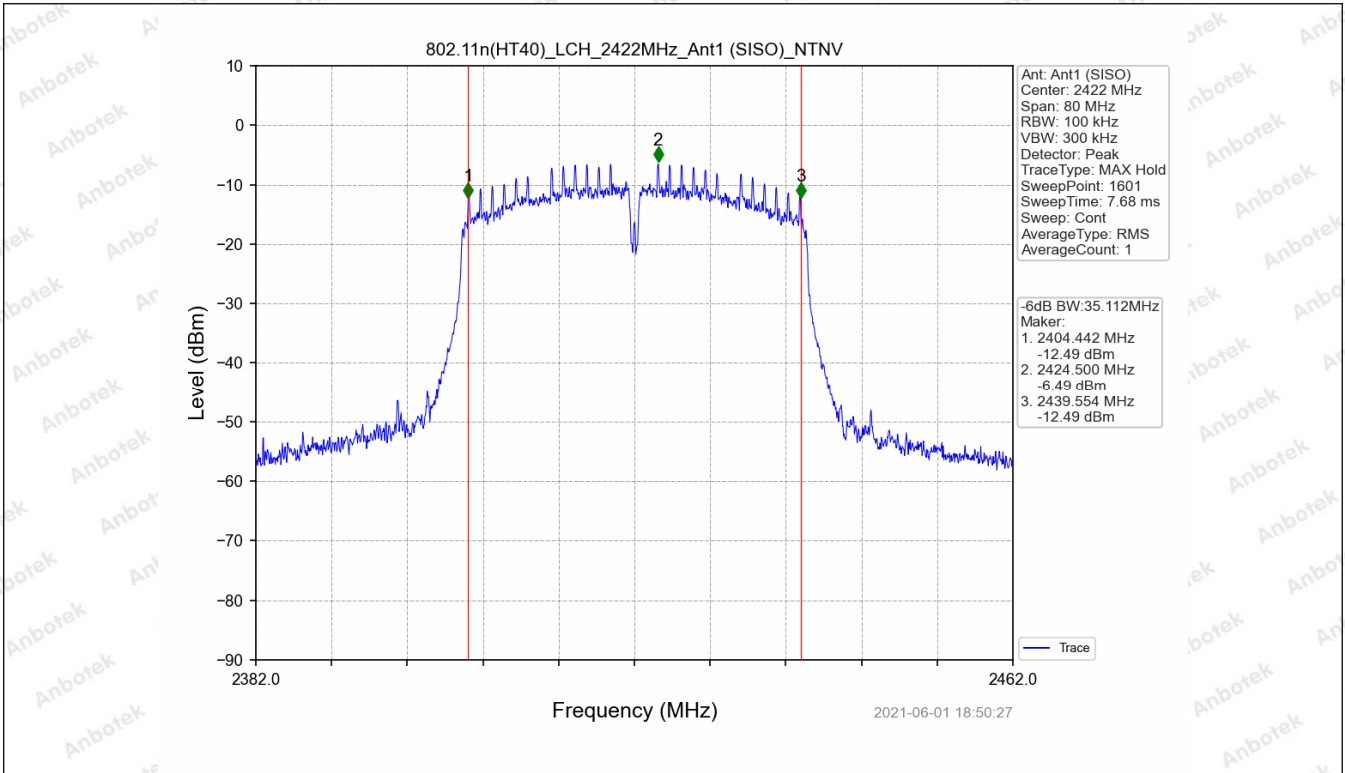
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



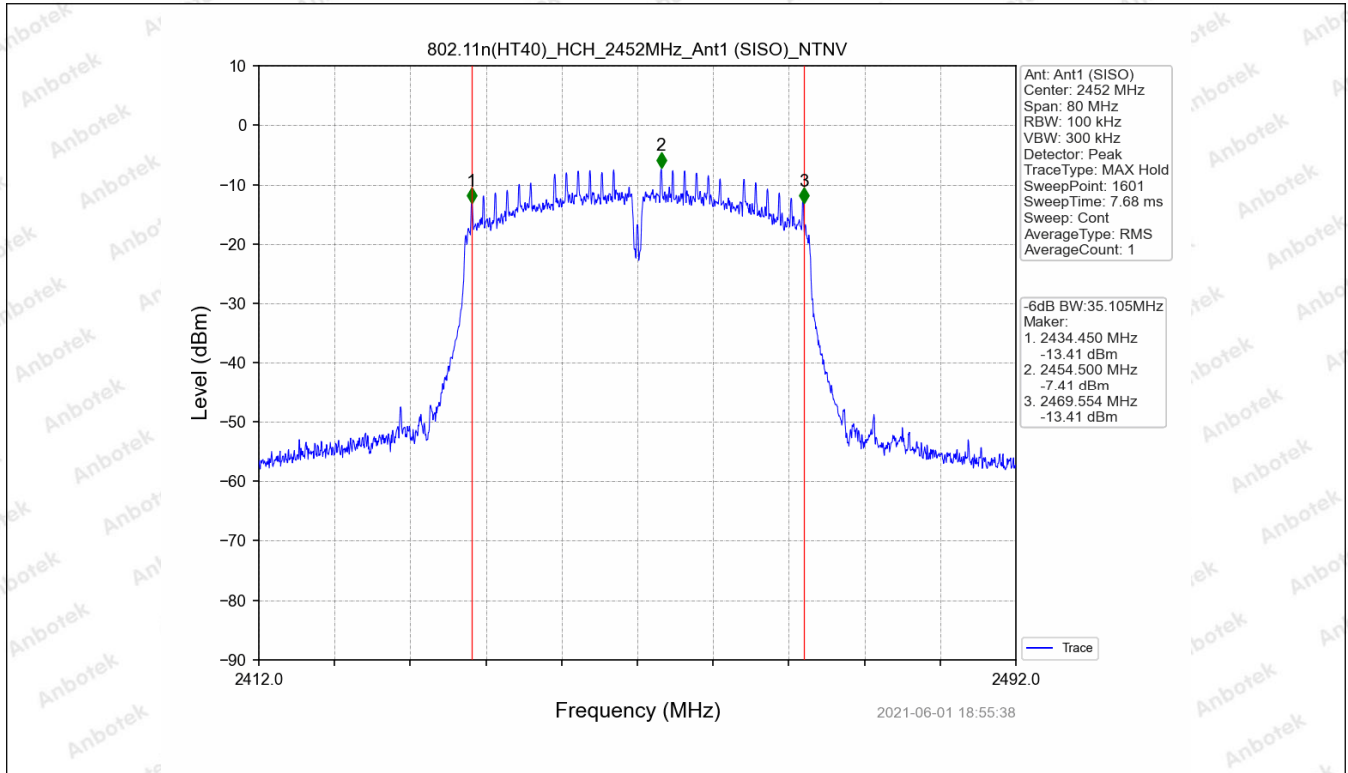
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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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	/	/	21.26	<=30	Pass
		2437	/	/	20.84	<=30	Pass
		2462	/	/	20.35	<=30	Pass
802.11g	SISO	2412	/	/	15.58	<=30	Pass
		2437	/	/	15.02	<=30	Pass
		2462	/	/	14.58	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.60	<=30	Pass
		2437	/	/	14.99	<=30	Pass
		2462	/	/	14.50	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	14.06	<=30	Pass
		2437	/	/	13.58	<=30	Pass
		2452	/	/	13.14	<=30	Pass

Note1: Antenna Gain:0 dBi;

4. Maximum Power Spectral Density

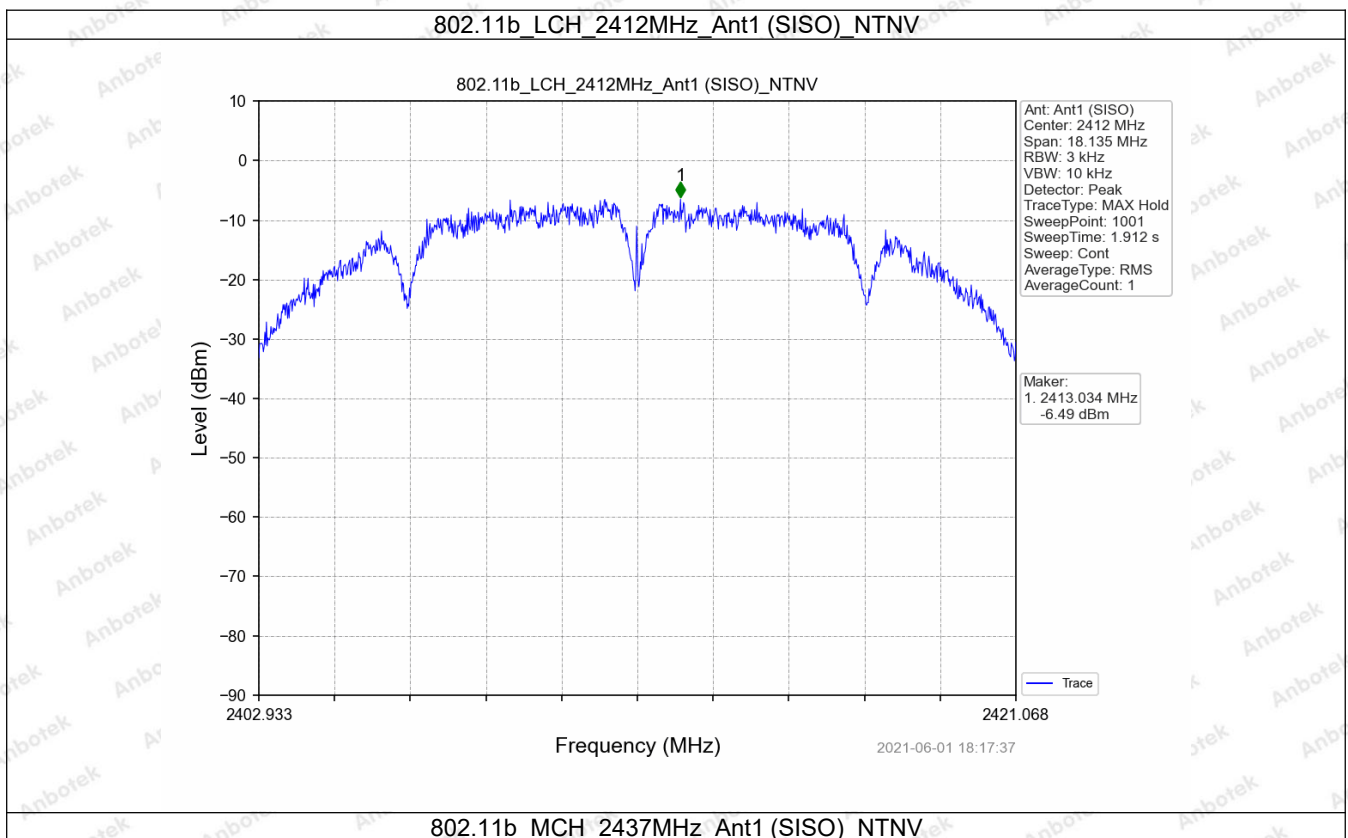
4.1 PSD

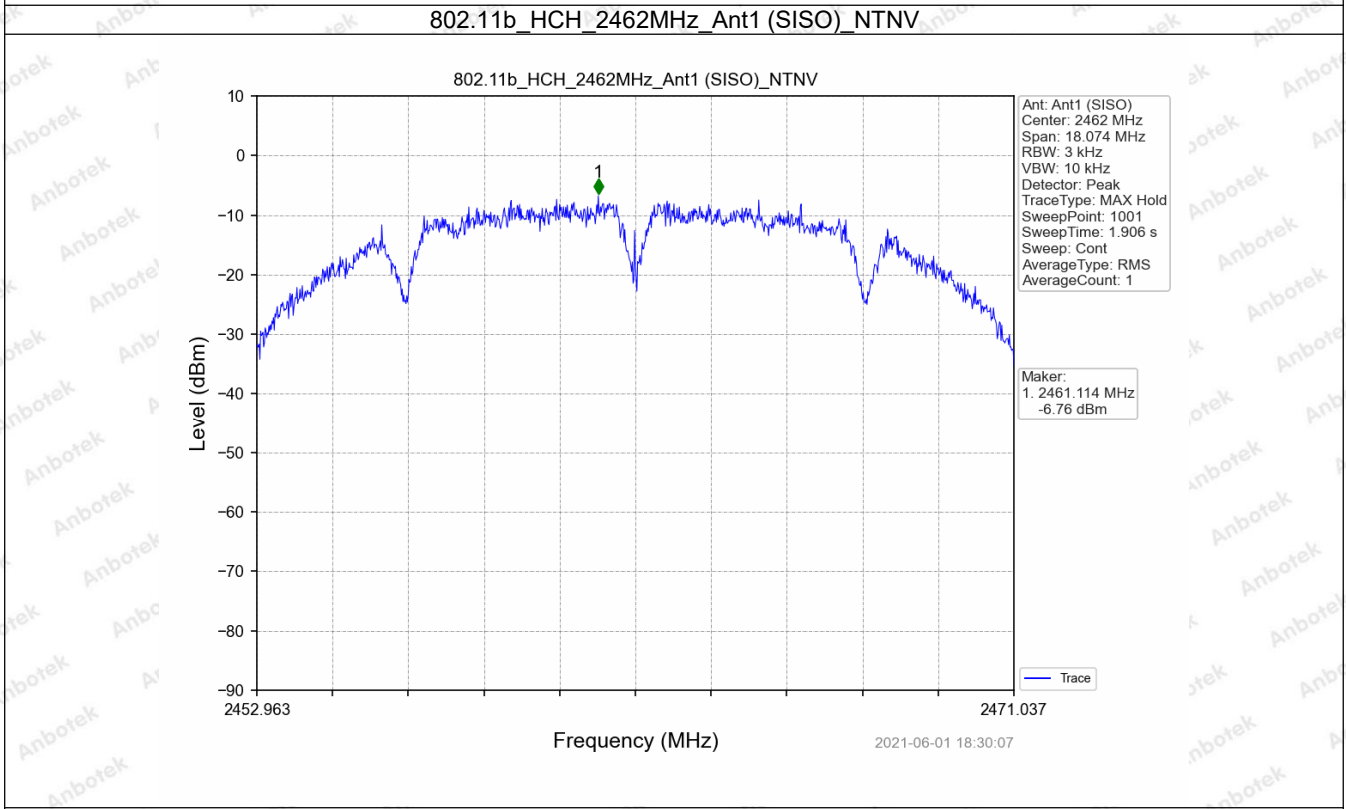
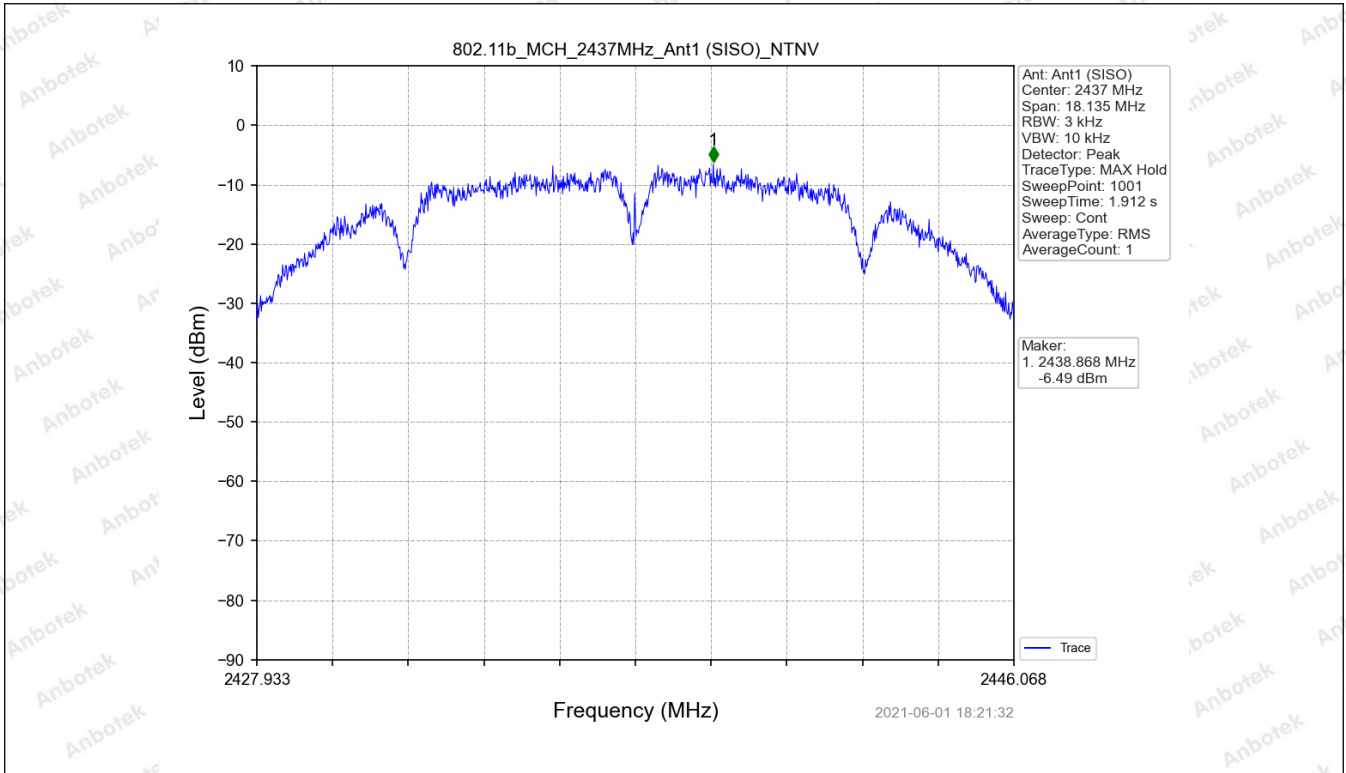
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Limit (dBm/3kHz)	Verdict
					Ant1			
802.11b	SISO	2412	/	/	-6.49		<=8	Pass
		2437	/	/	-6.49		<=8	Pass
		2462	/	/	-6.76		<=8	Pass
802.11g	SISO	2412	/	/	-16.95		<=8	Pass
		2437	/	/	-16.79		<=8	Pass
		2462	/	/	-17.91		<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-16.98		<=8	Pass
		2437	/	/	-16.88		<=8	Pass
		2462	/	/	-18.00		<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-20.85		<=8	Pass
		2437	/	/	-19.79		<=8	Pass
		2452	/	/	-20.87		<=8	Pass

Note1: Antenna Gain: 0 dBi;

4.1.2 Test Graph





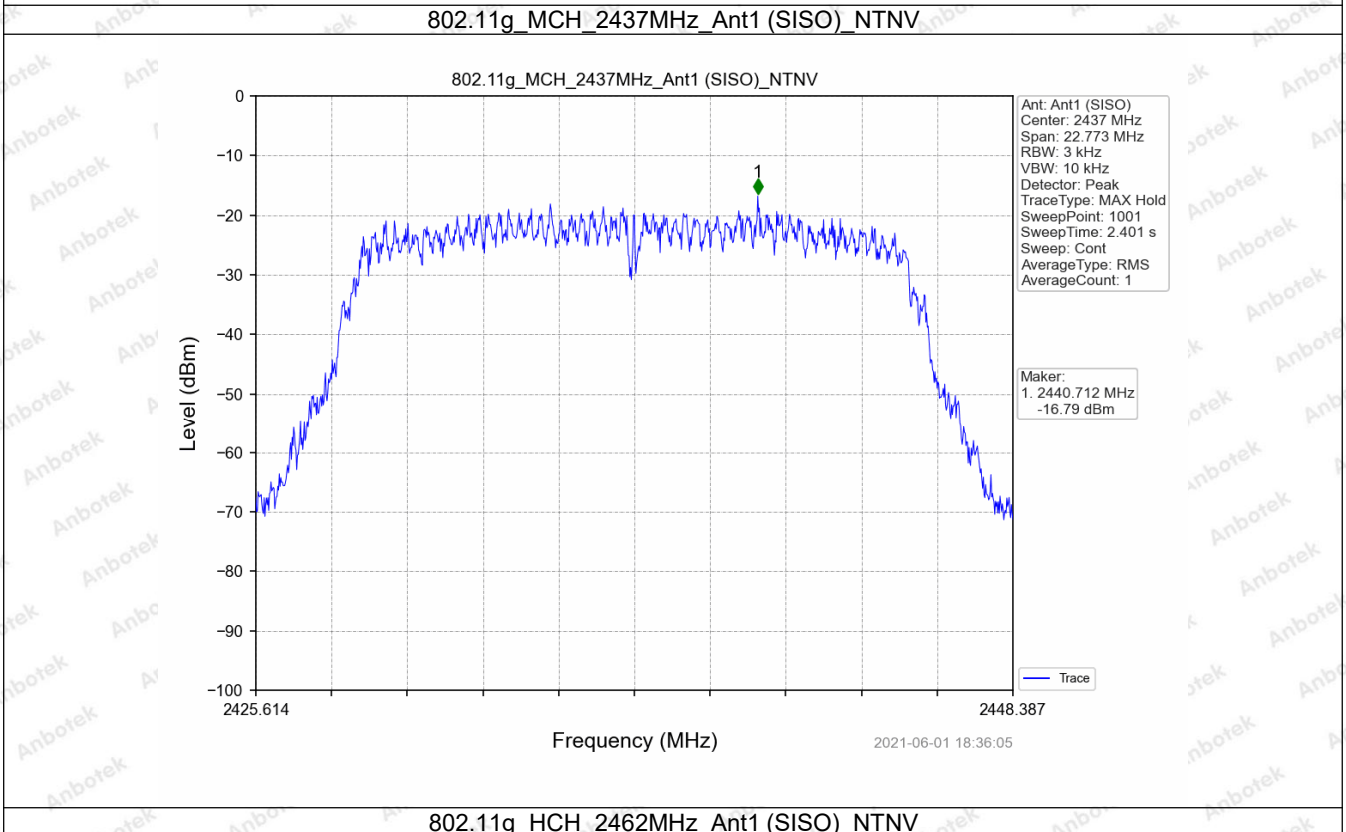
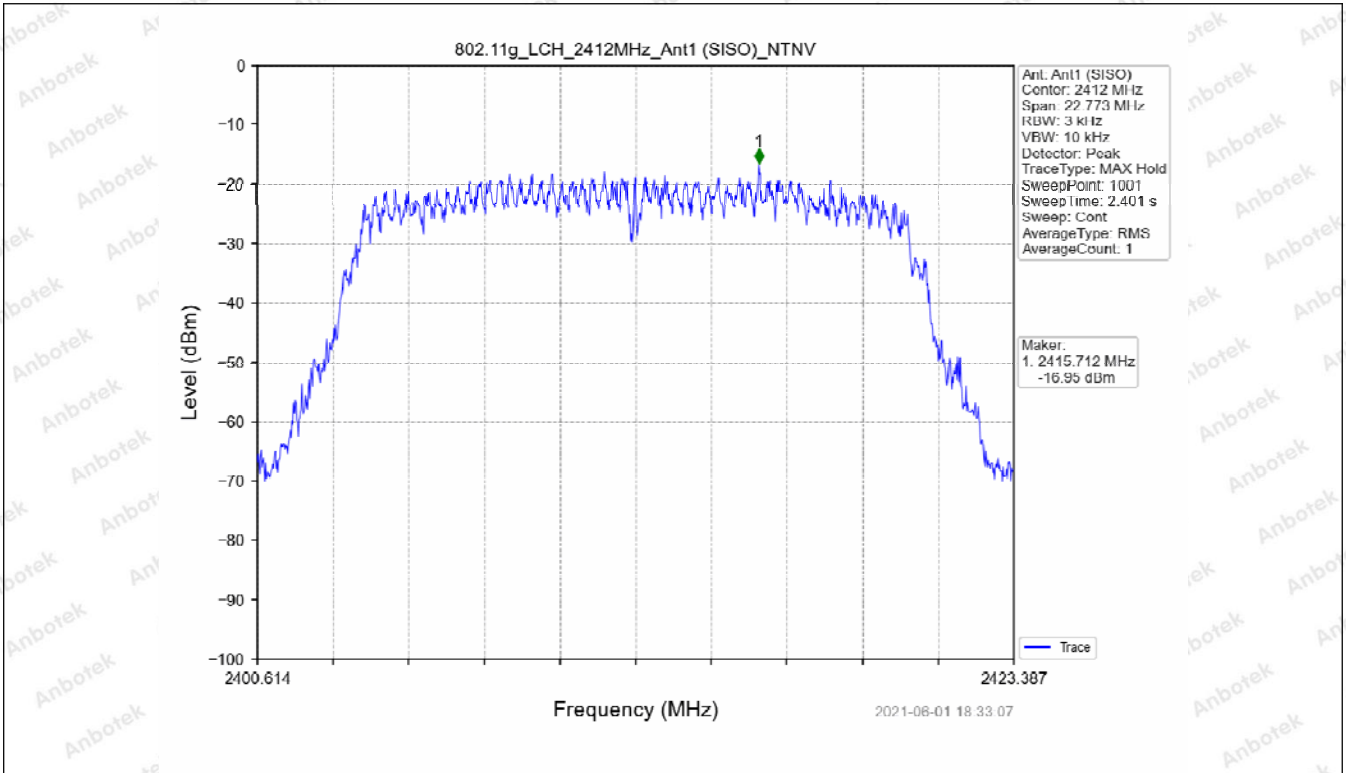
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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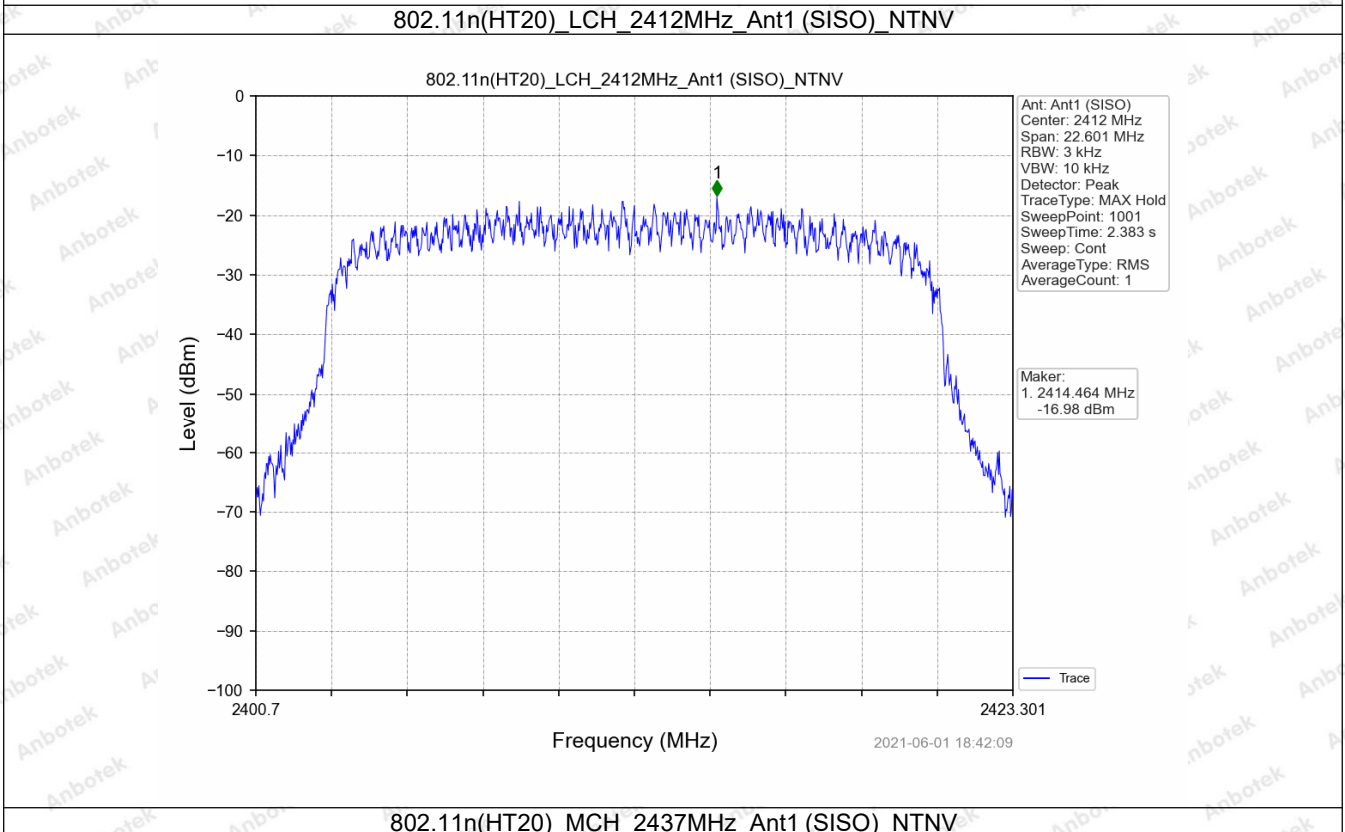
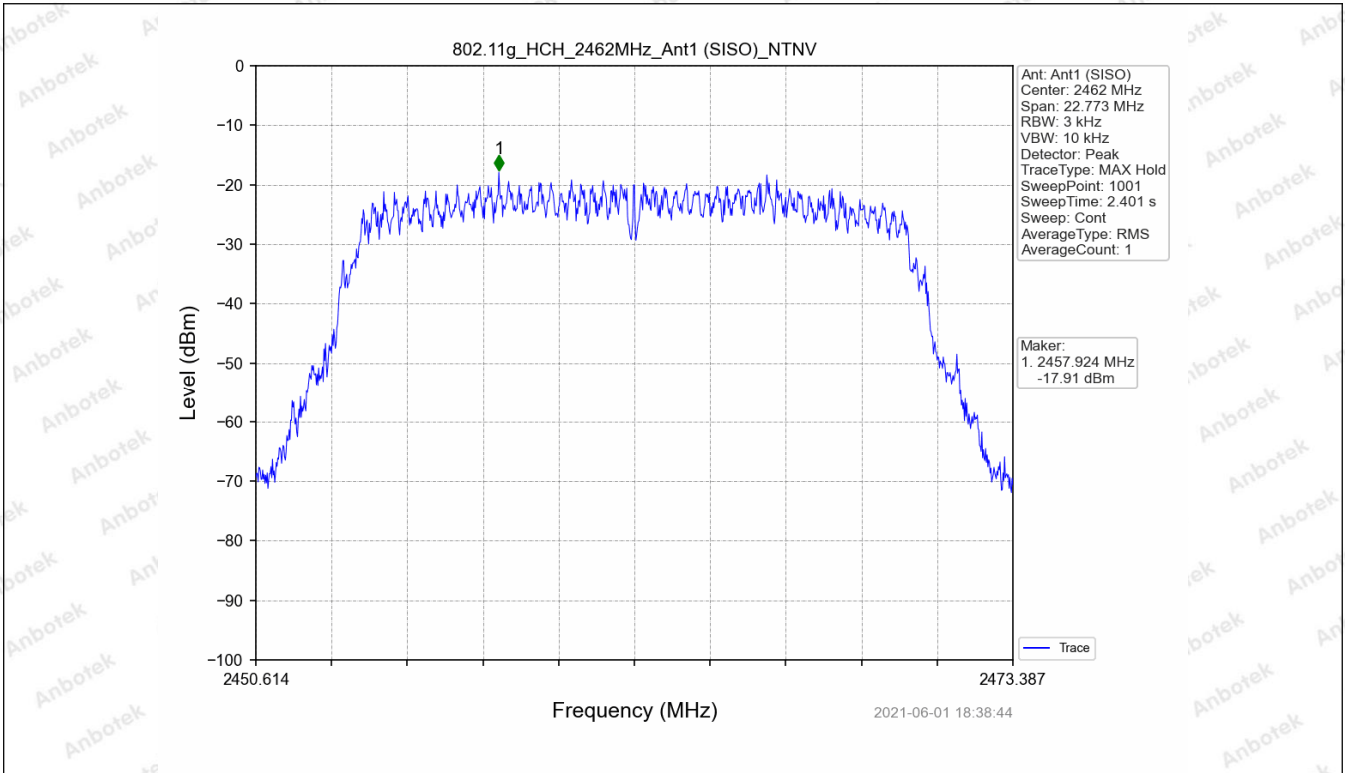
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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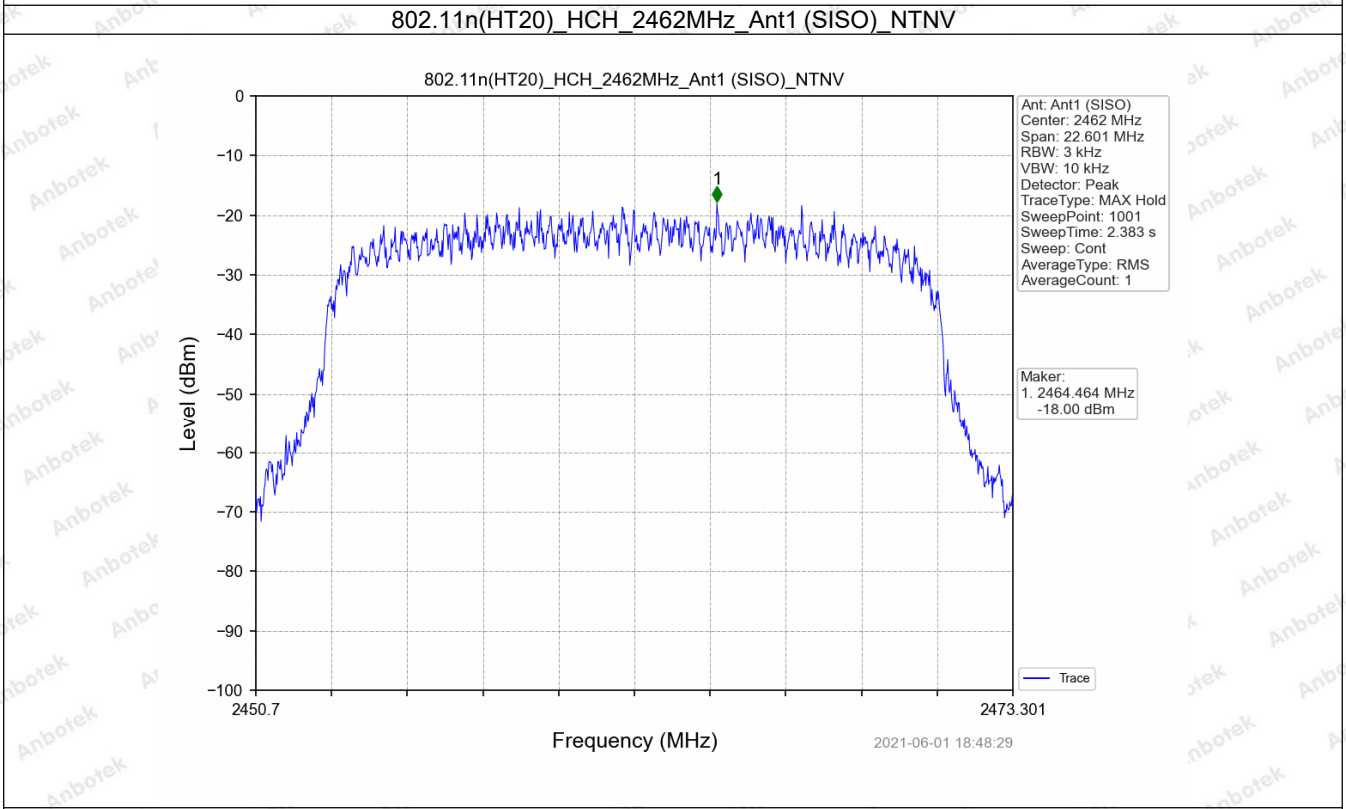
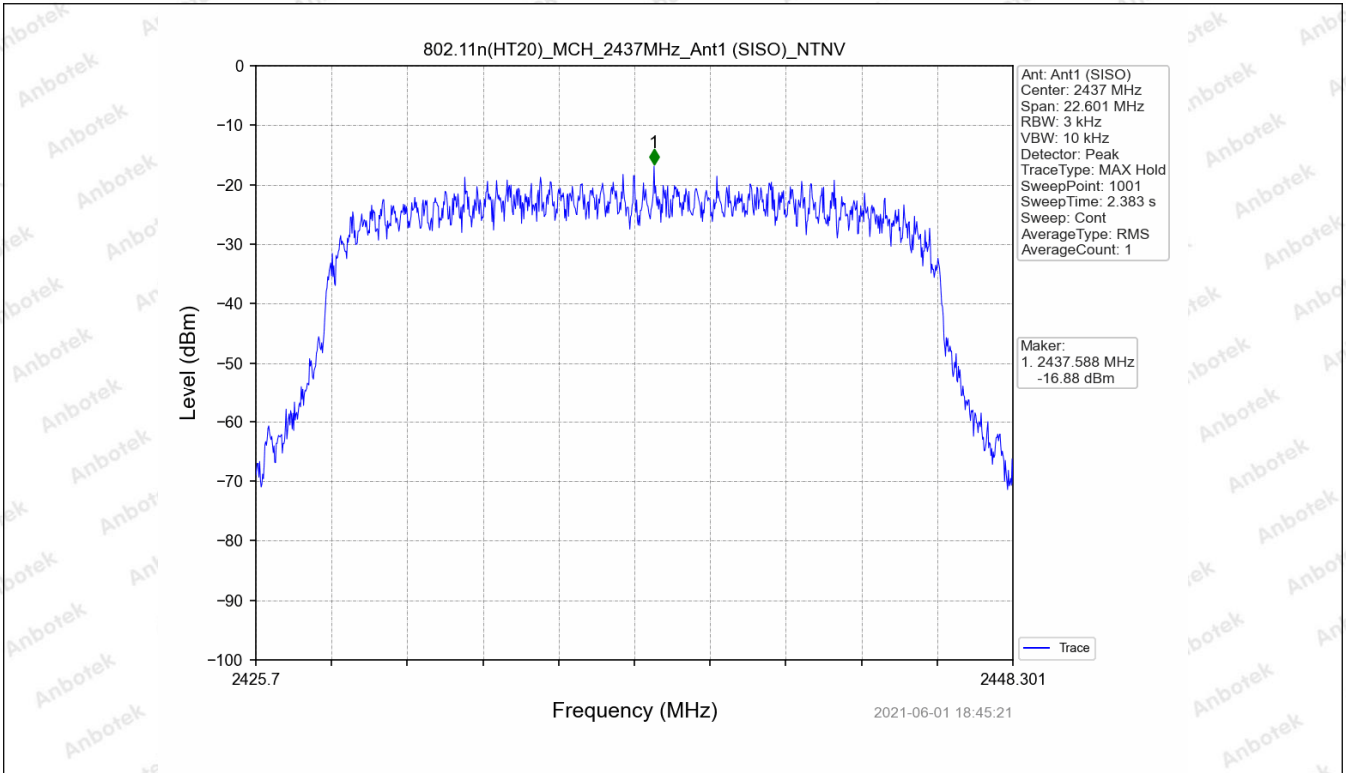
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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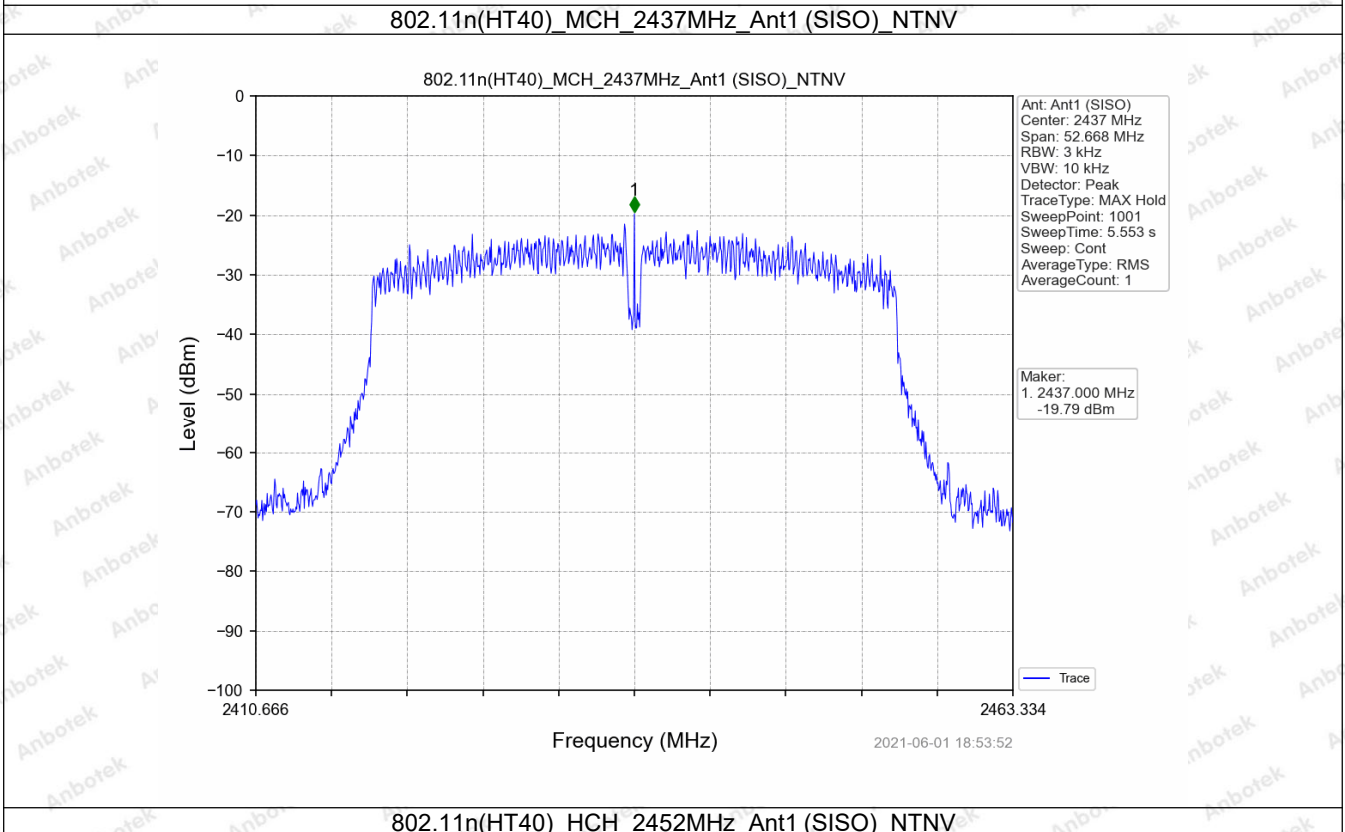
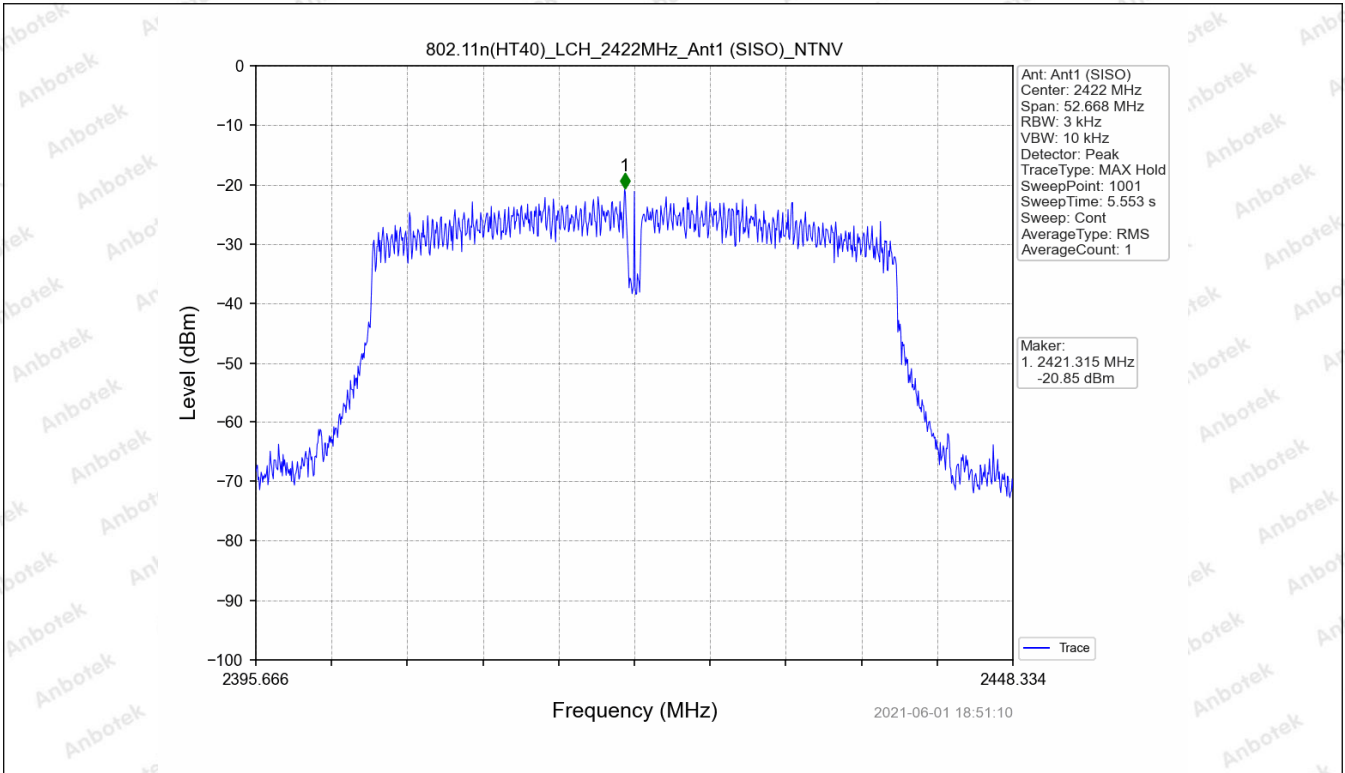
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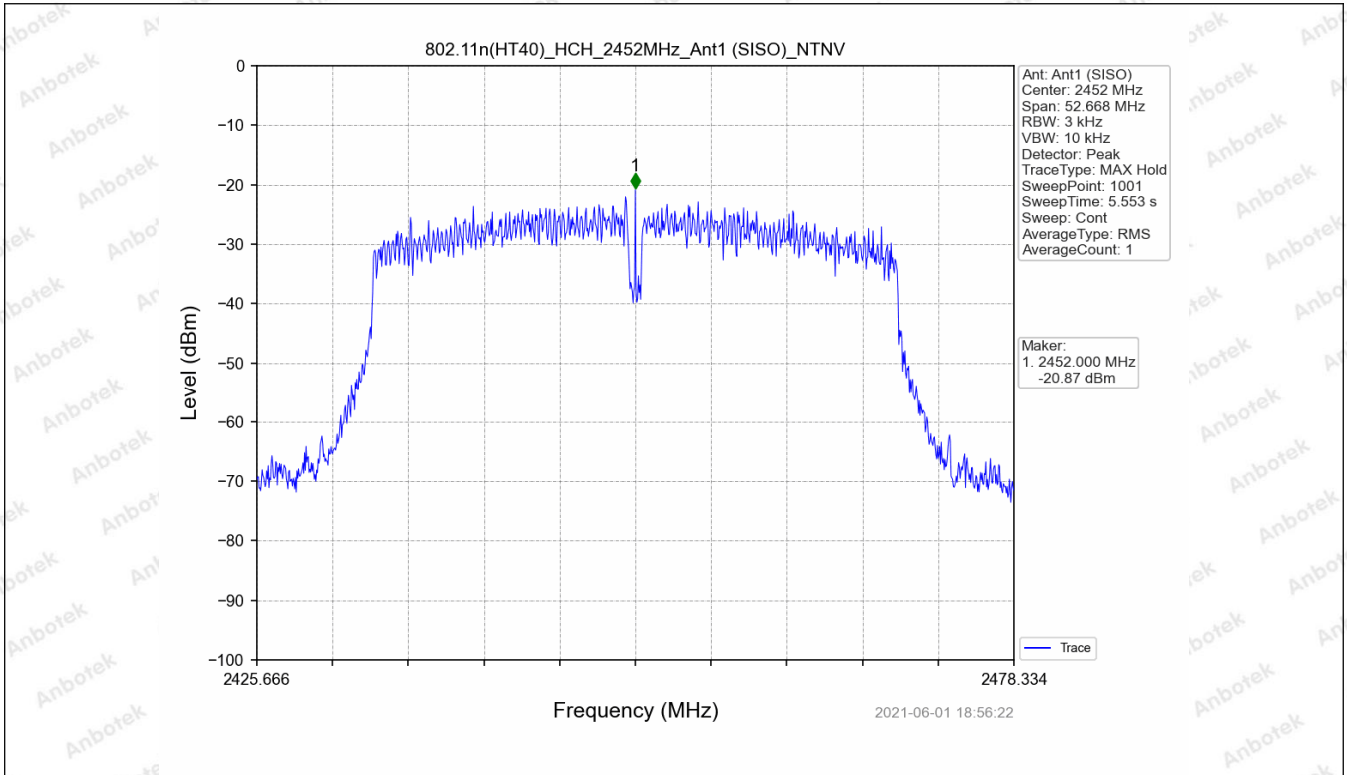
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV





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5. Unwanted Emissions In Non-restricted Frequency Bands

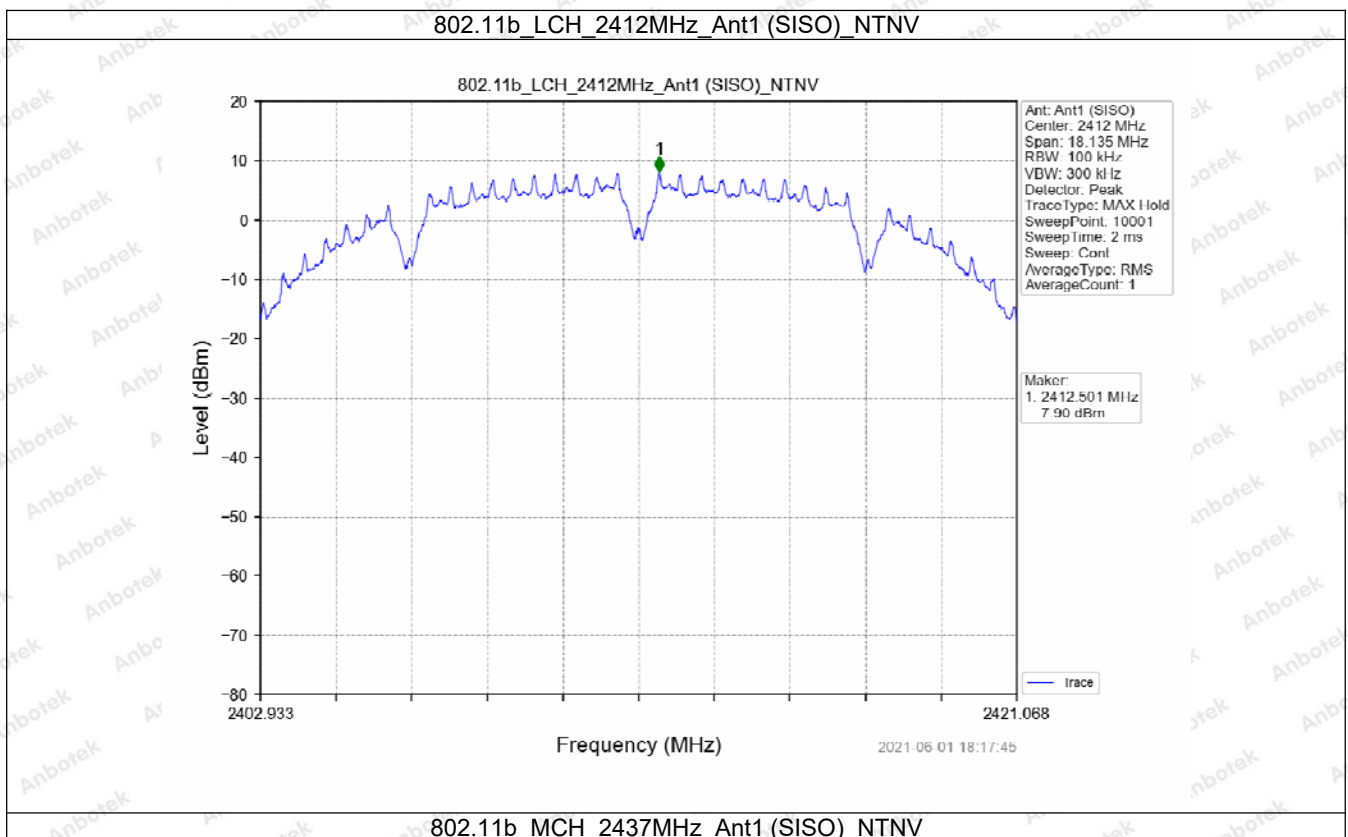
5.1 Ref

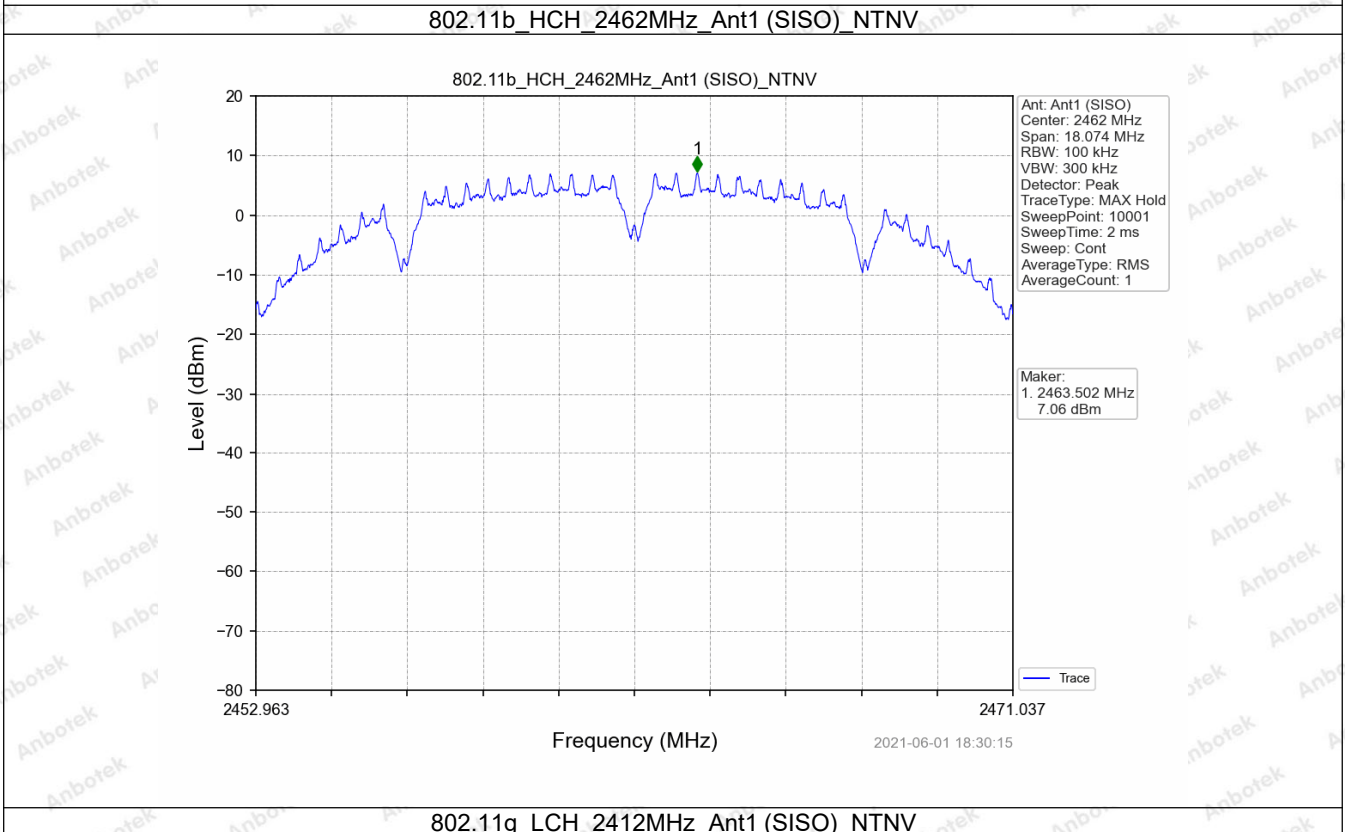
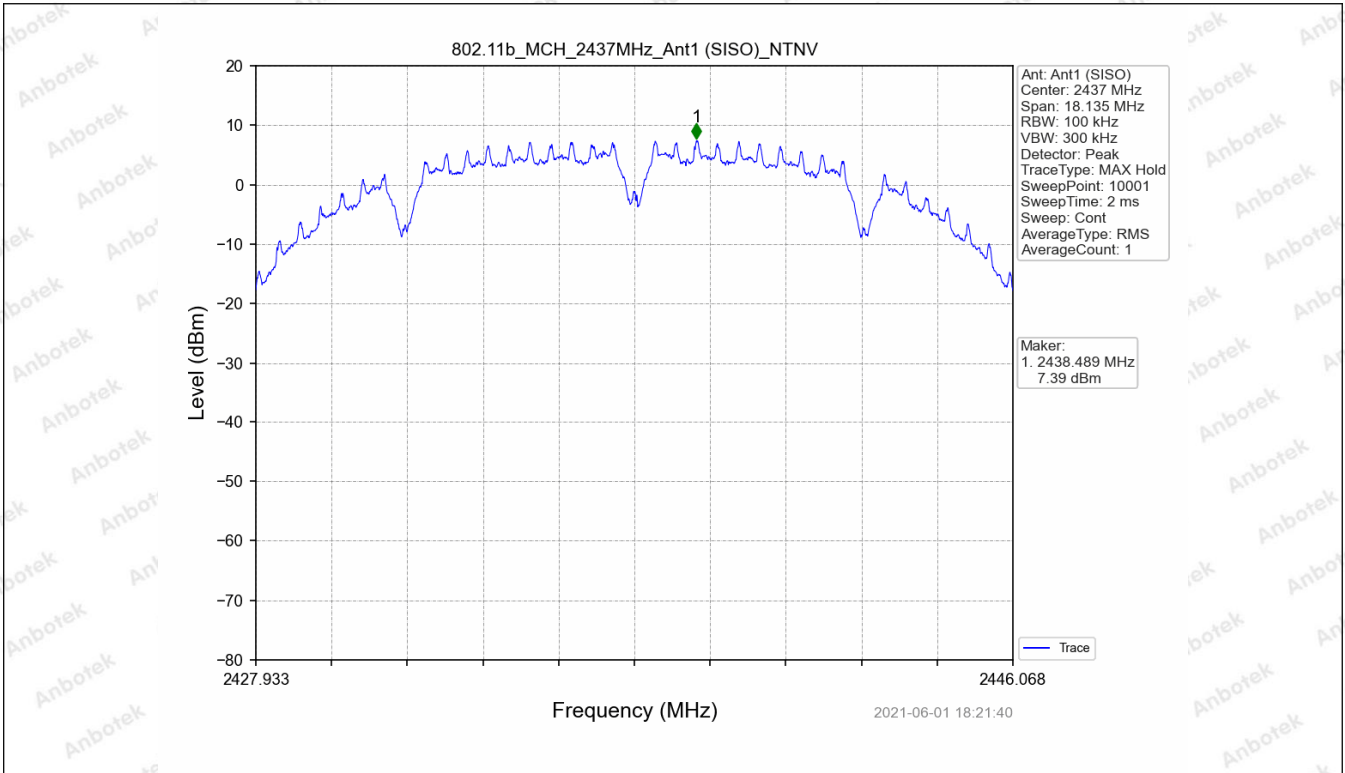
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	7.90	/	/
		2437	/	/	1	7.39	/	/
		2462	/	/	1	7.06	/	/
802.11g	SISO	2412	/	/	1	-2.53	/	/
		2437	/	/	1	-3.17	/	/
		2462	/	/	1	-3.56	/	/
802.11n (HT20)	SISO	2412	/	/	1	0.12	/	/
		2437	/	/	1	-0.35	/	/
		2462	/	/	1	-0.87	/	/
802.11n (HT40)	SISO	2422	/	/	1	-6.69	/	/
		2437	/	/	1	-7.06	/	/
		2452	/	/	1	-7.51	/	/

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 Test Graph





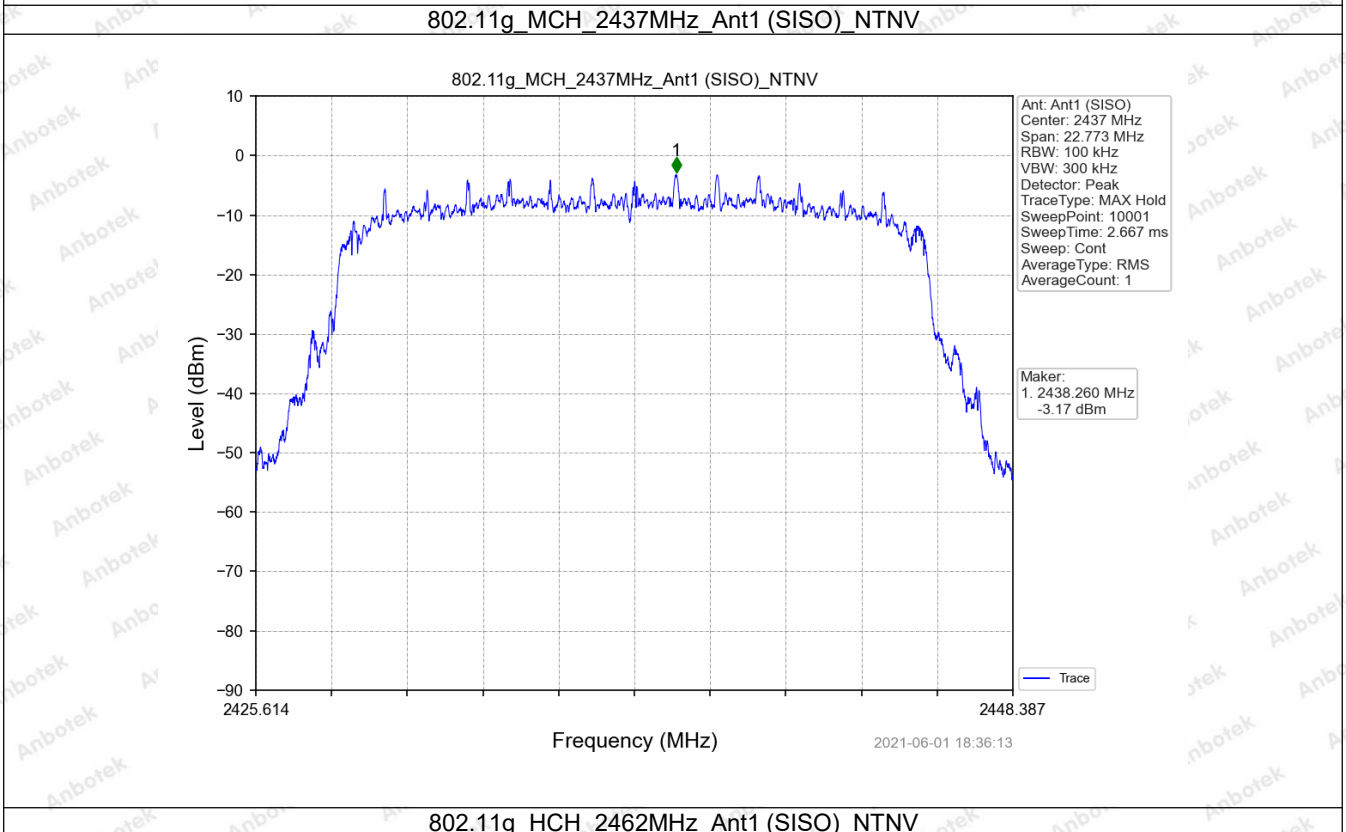
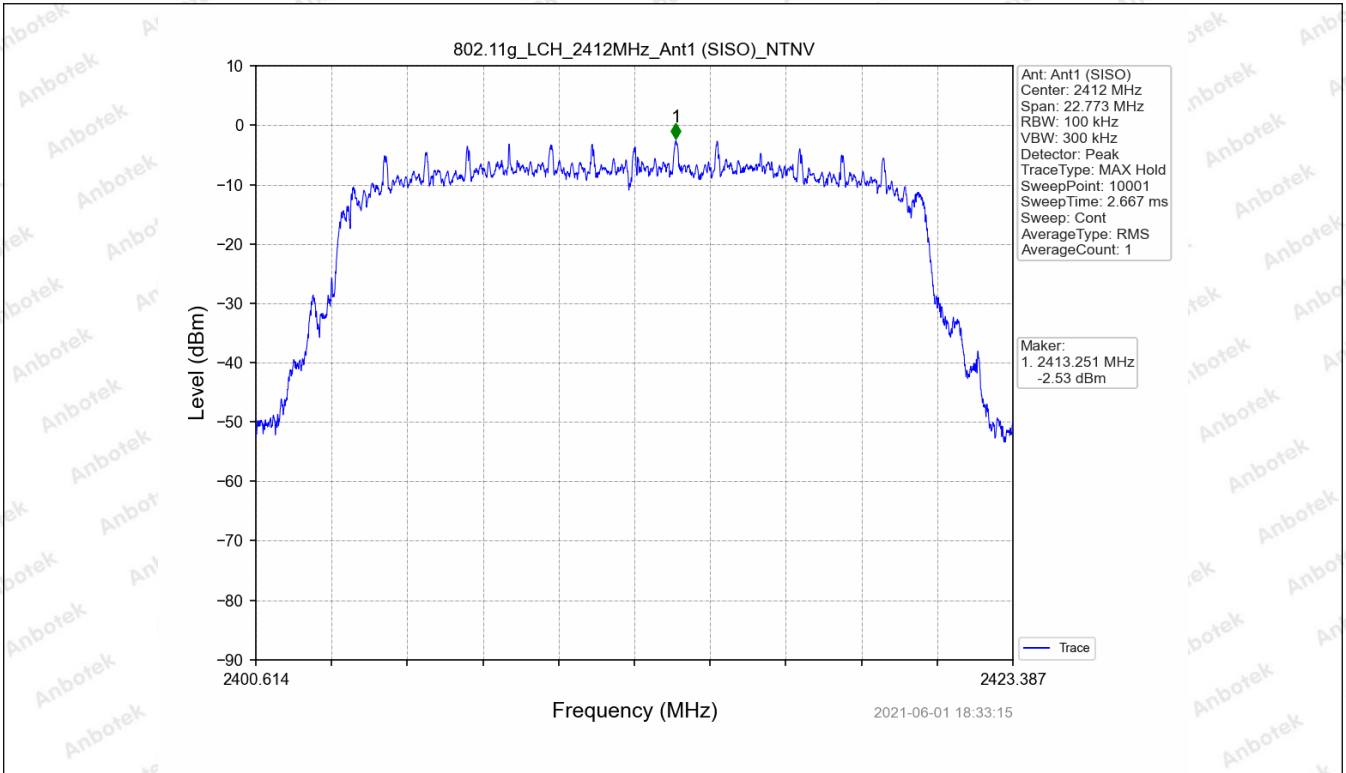
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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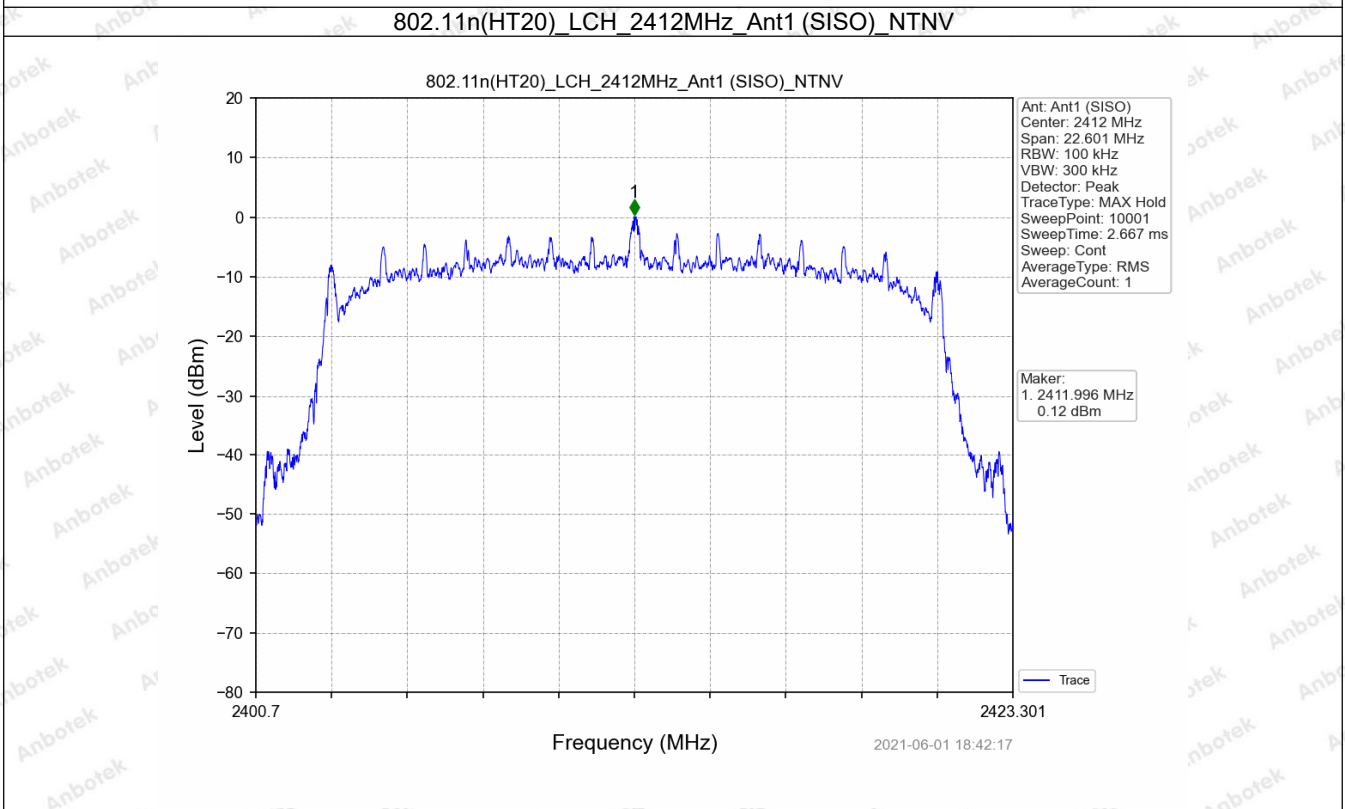
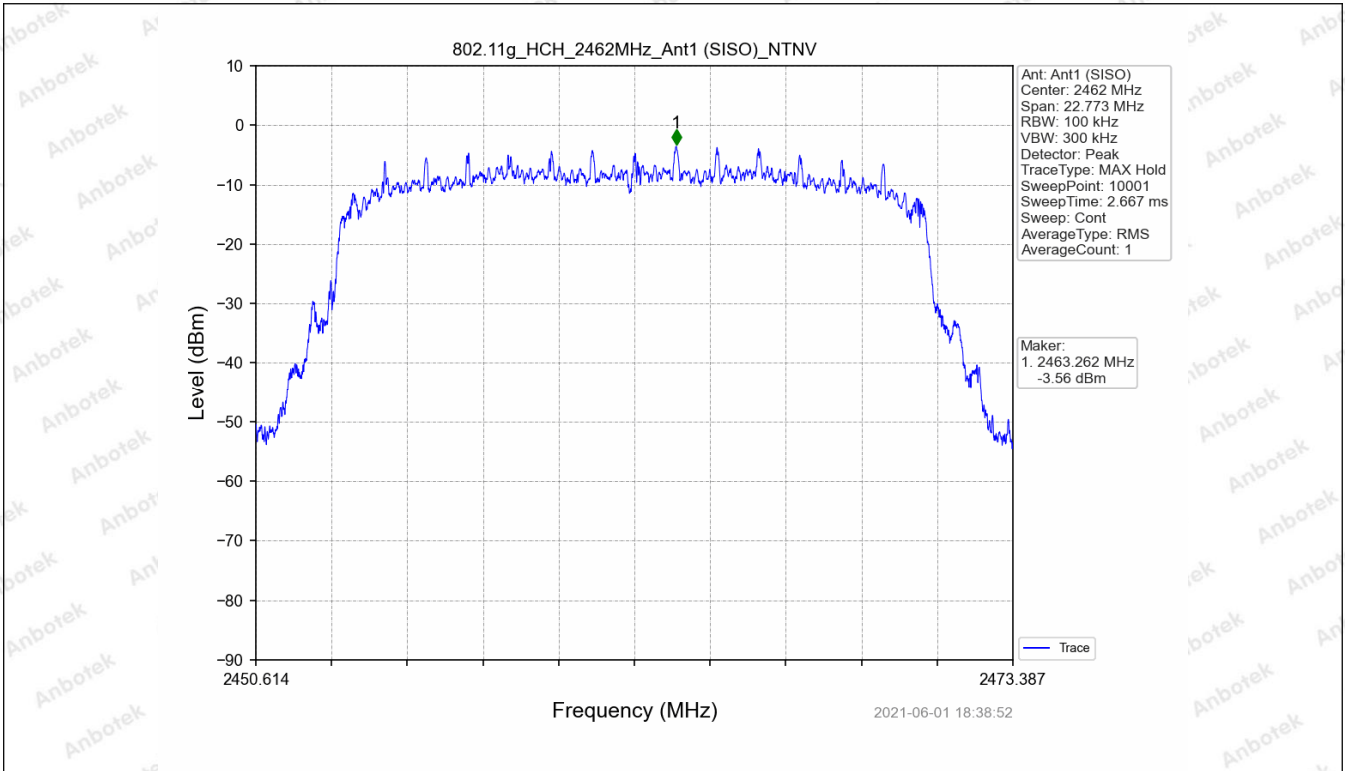
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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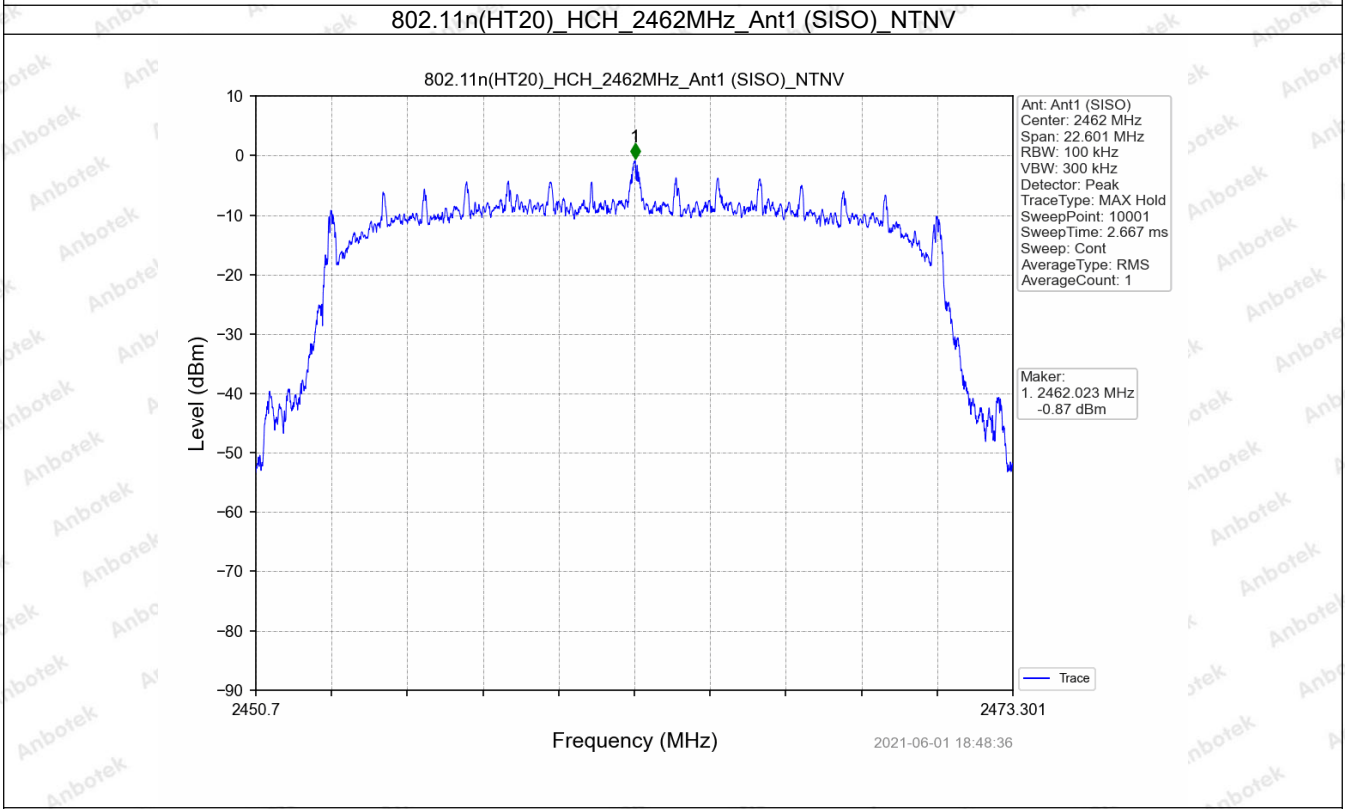
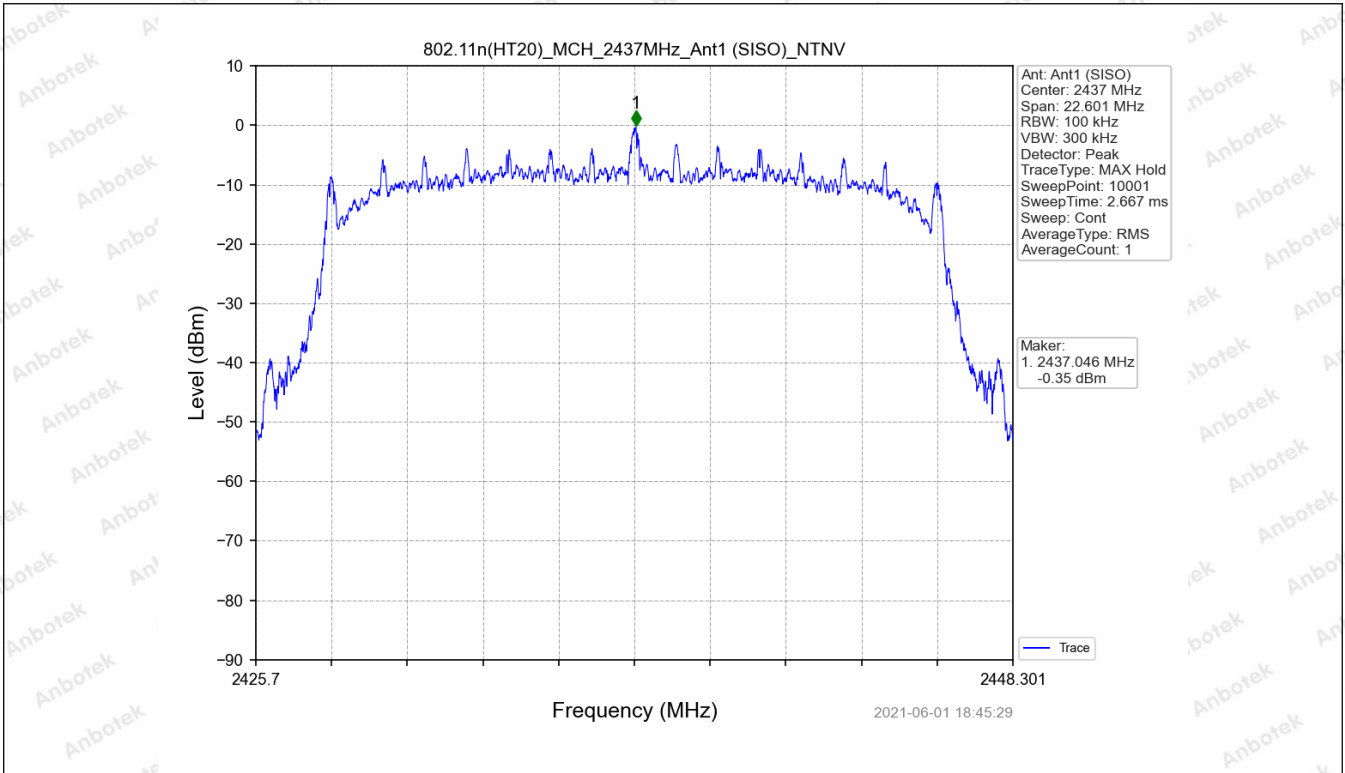
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



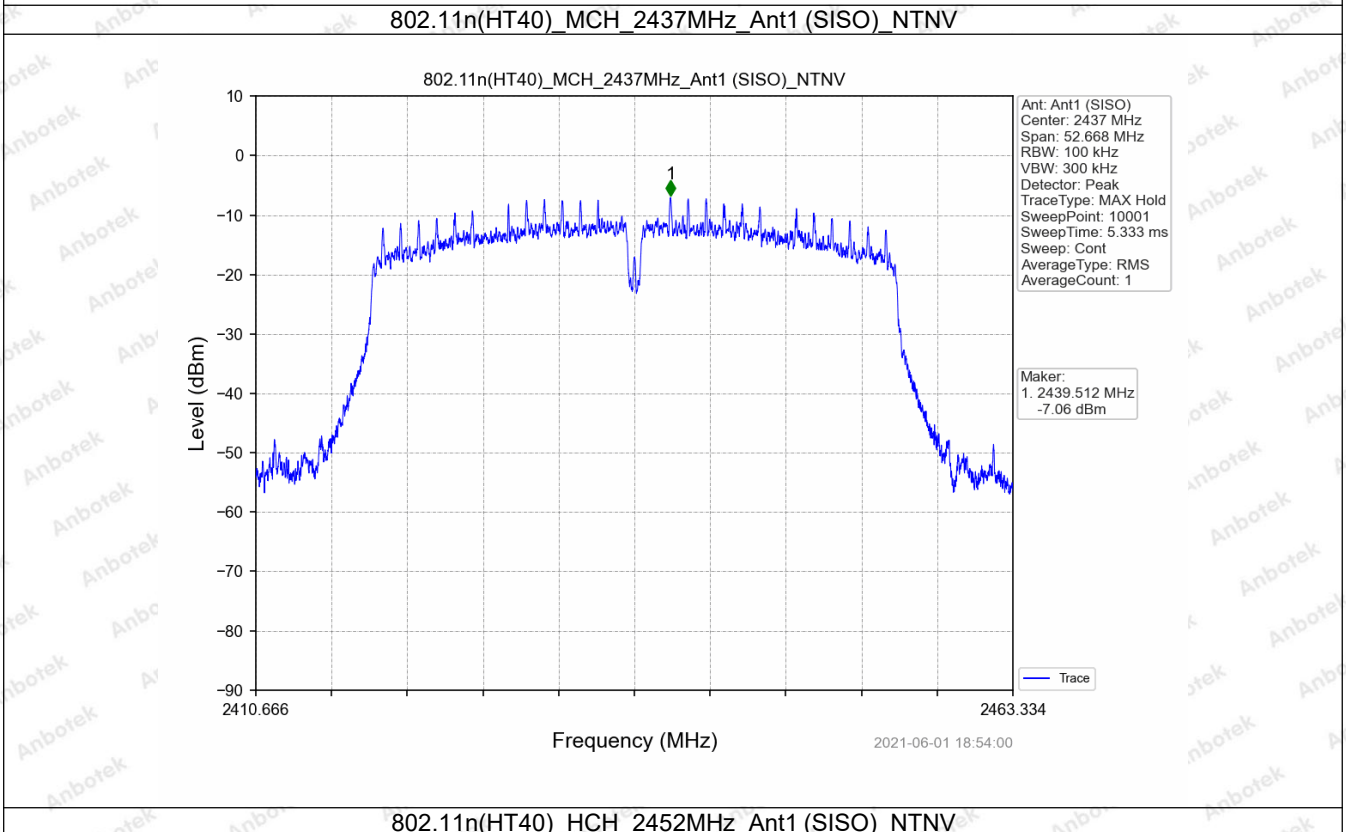
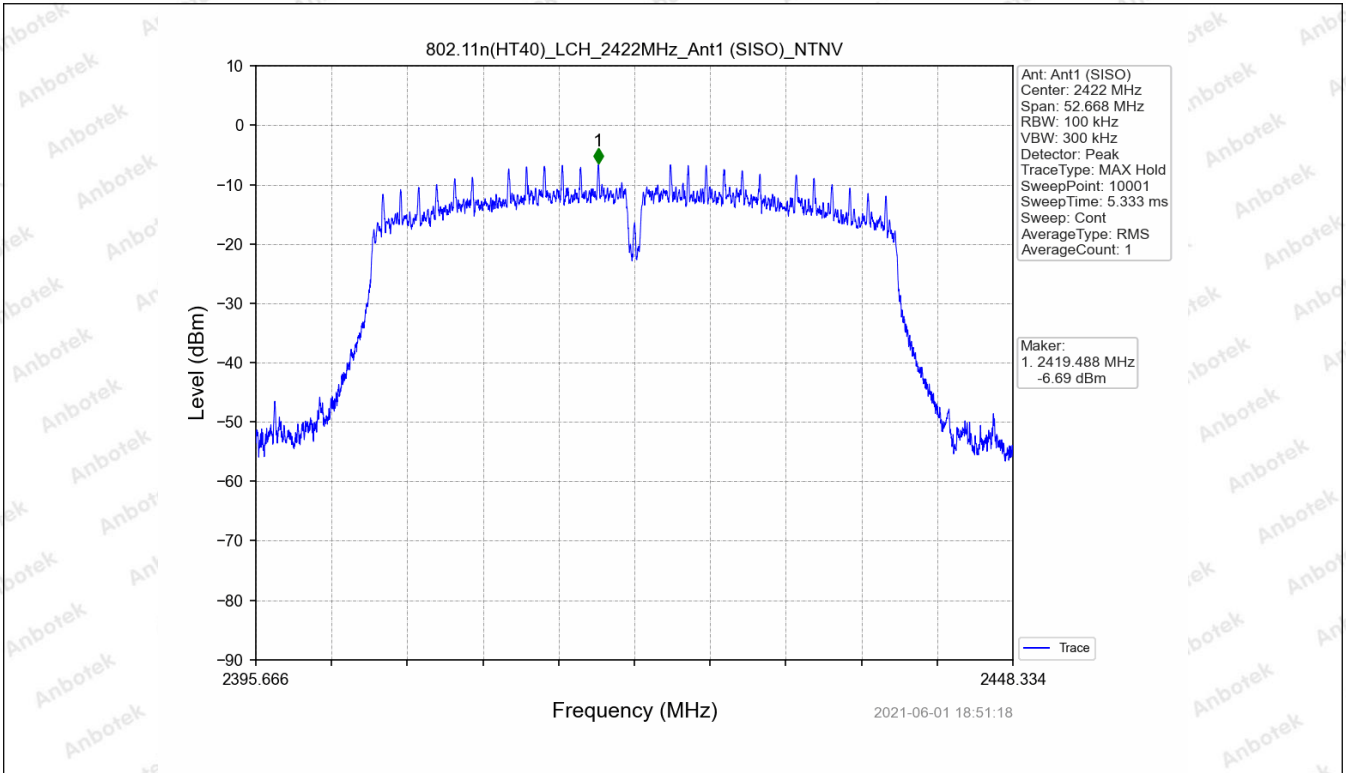
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

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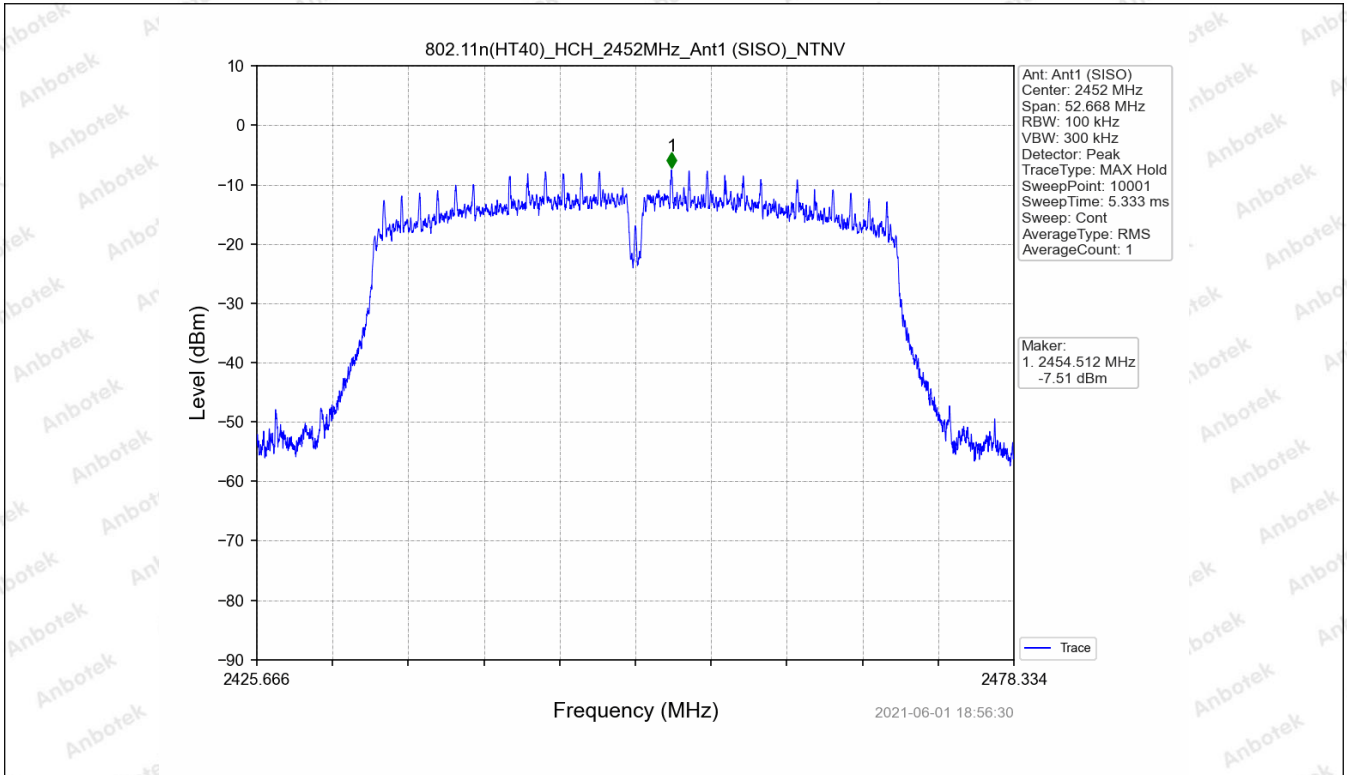
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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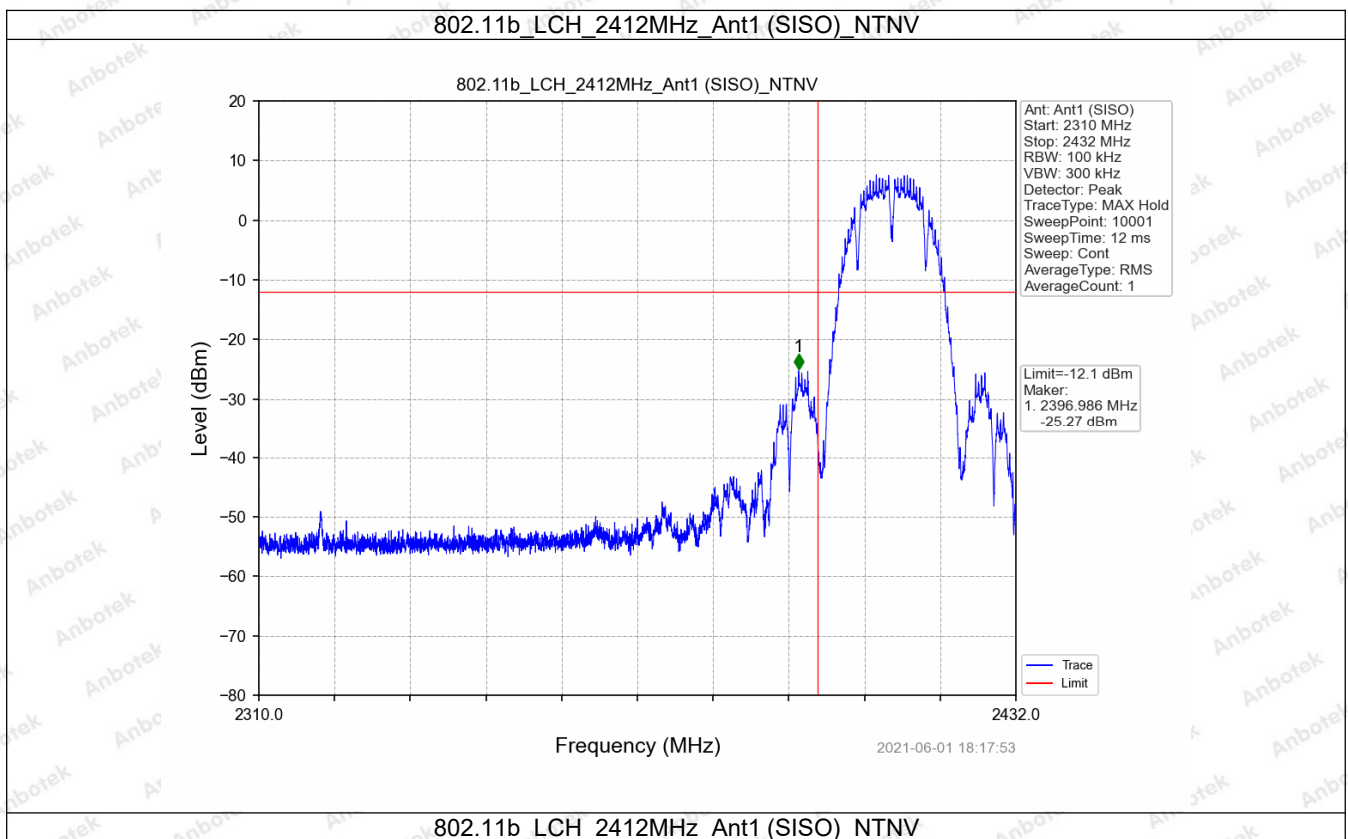
5.2 CSE

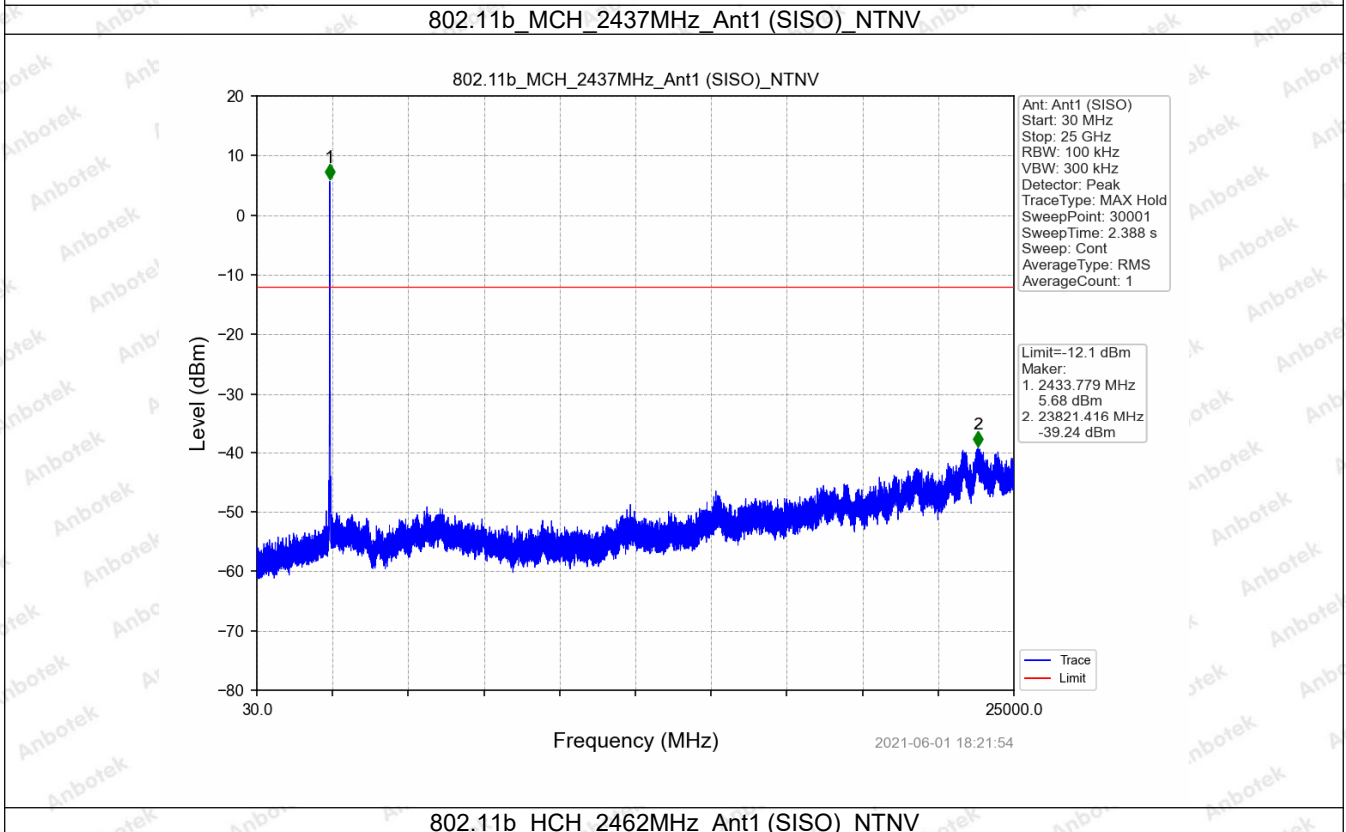
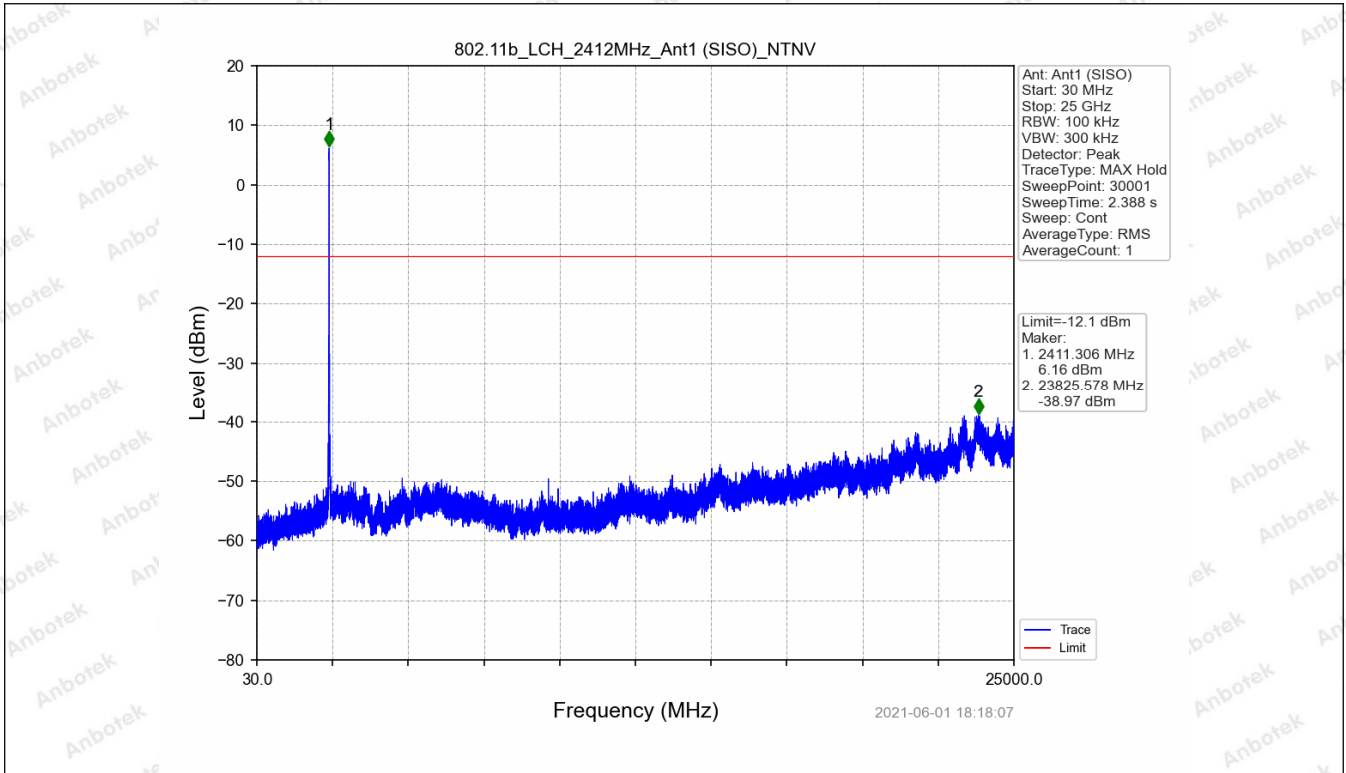
5.2.1 Test Result

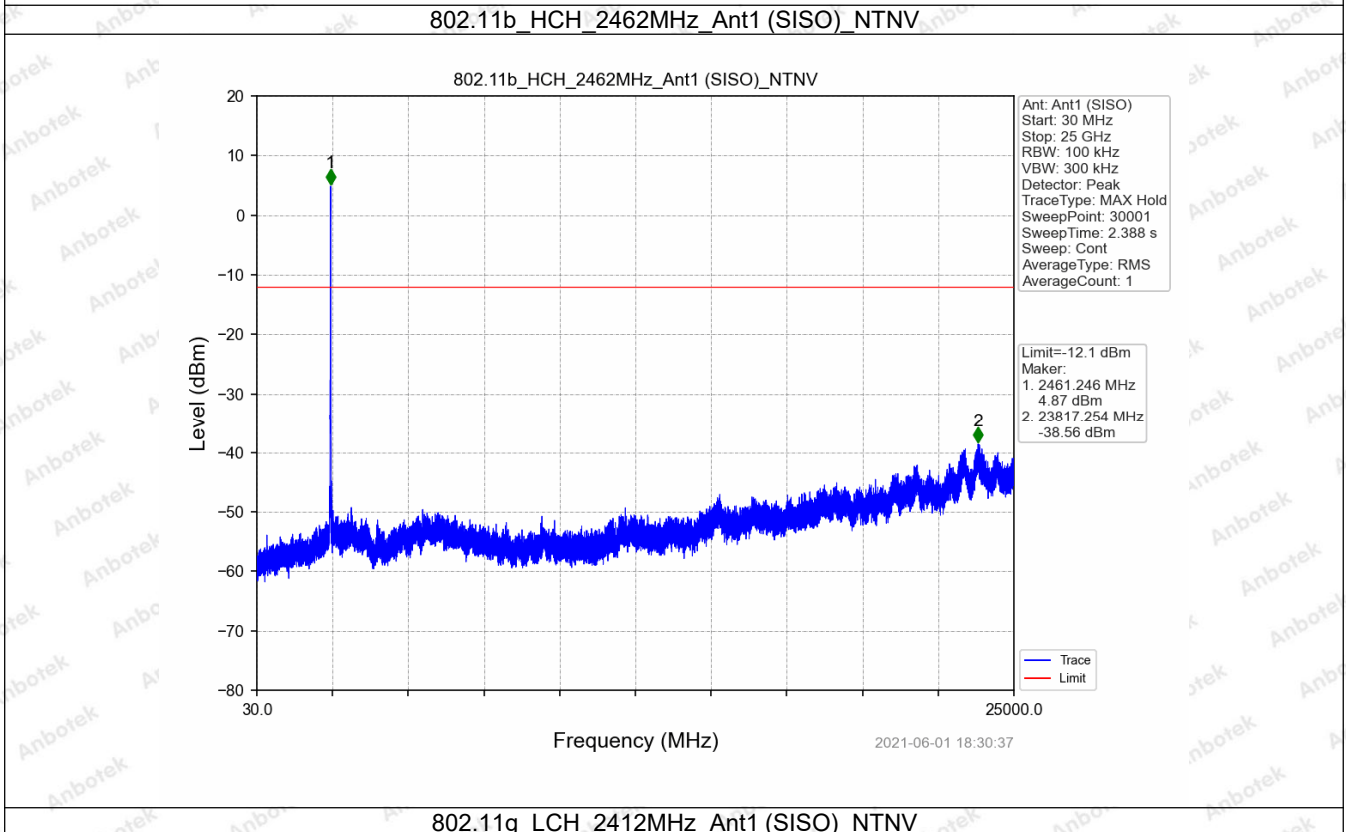
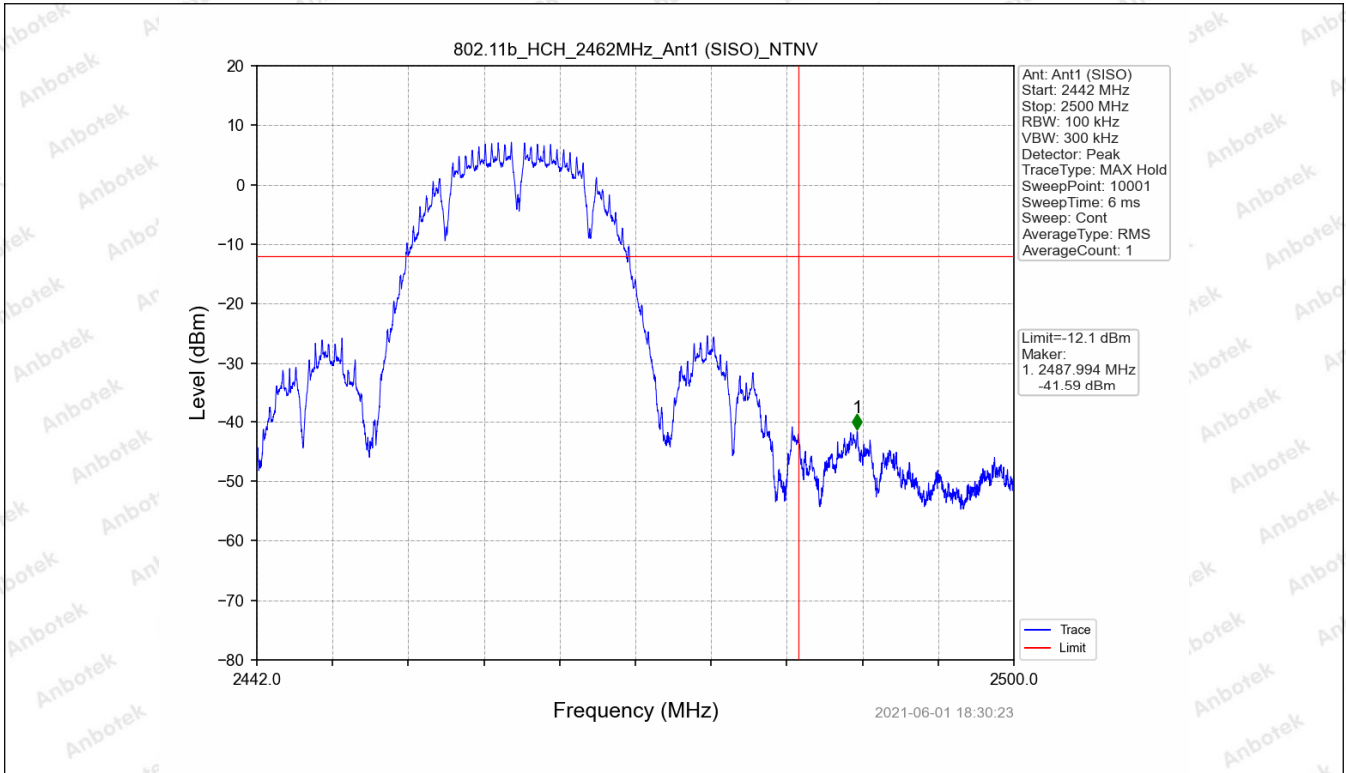
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	<=-12.1	Pass
		2437	/	/	1	Refer To Test Graph	<=-12.1	Pass
		2462	/	/	1	Refer To Test Graph	<=-12.1	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	<=-22.53	Pass
		2437	/	/	1	Refer To Test Graph	<=-22.53	Pass
		2462	/	/	1	Refer To Test Graph	<=-22.53	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	<=-19.88	Pass
		2437	/	/	1	Refer To Test Graph	<=-19.88	Pass
		2462	/	/	1	Refer To Test Graph	<=-19.88	Pass
802.11n (HT40)	SISO	2422	/	/	1	Refer To Test Graph	<=-19.88	Pass
		2437	/	/	1	Refer To Test Graph	<=-19.88	Pass
		2452	/	/	1	Refer To Test Graph	<=-19.88	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.

5.2.2 Test Graph







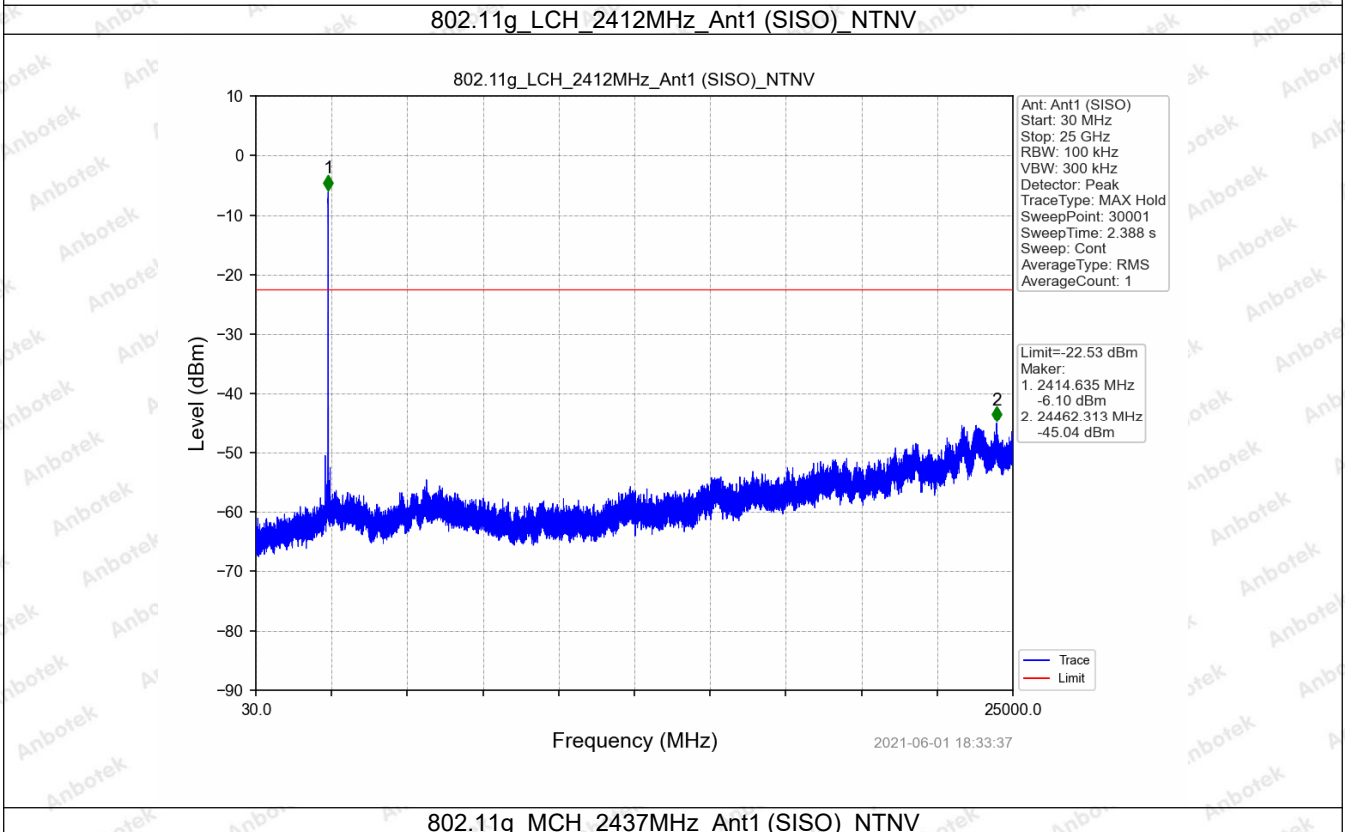
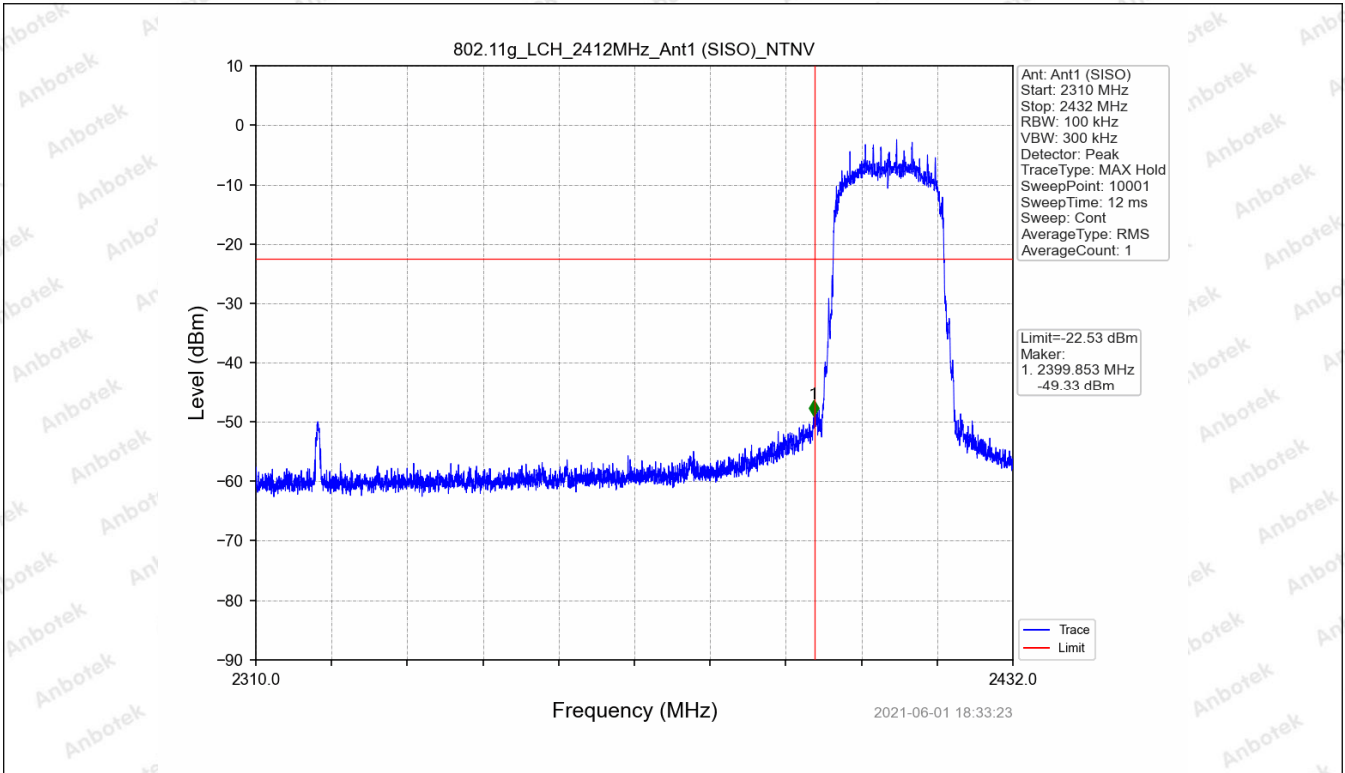
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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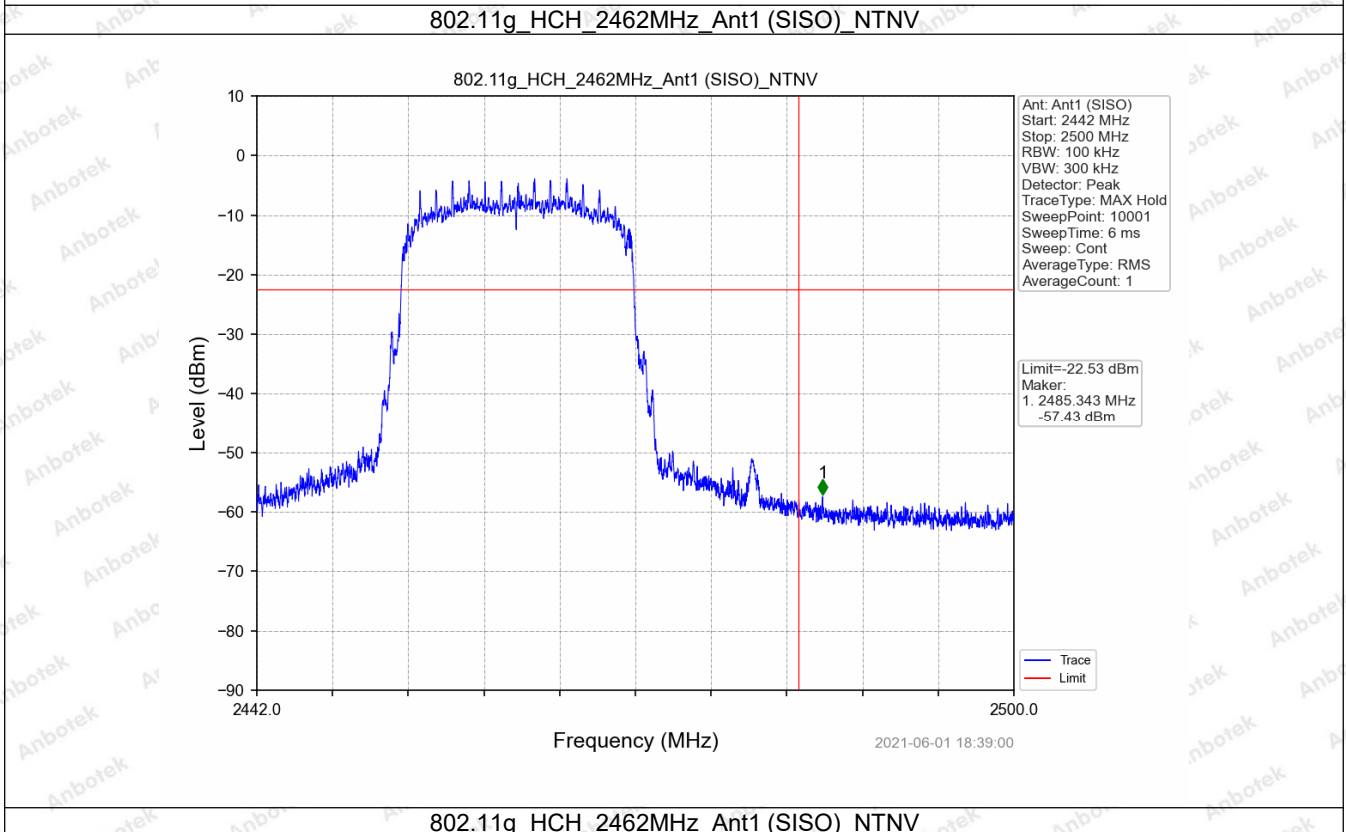
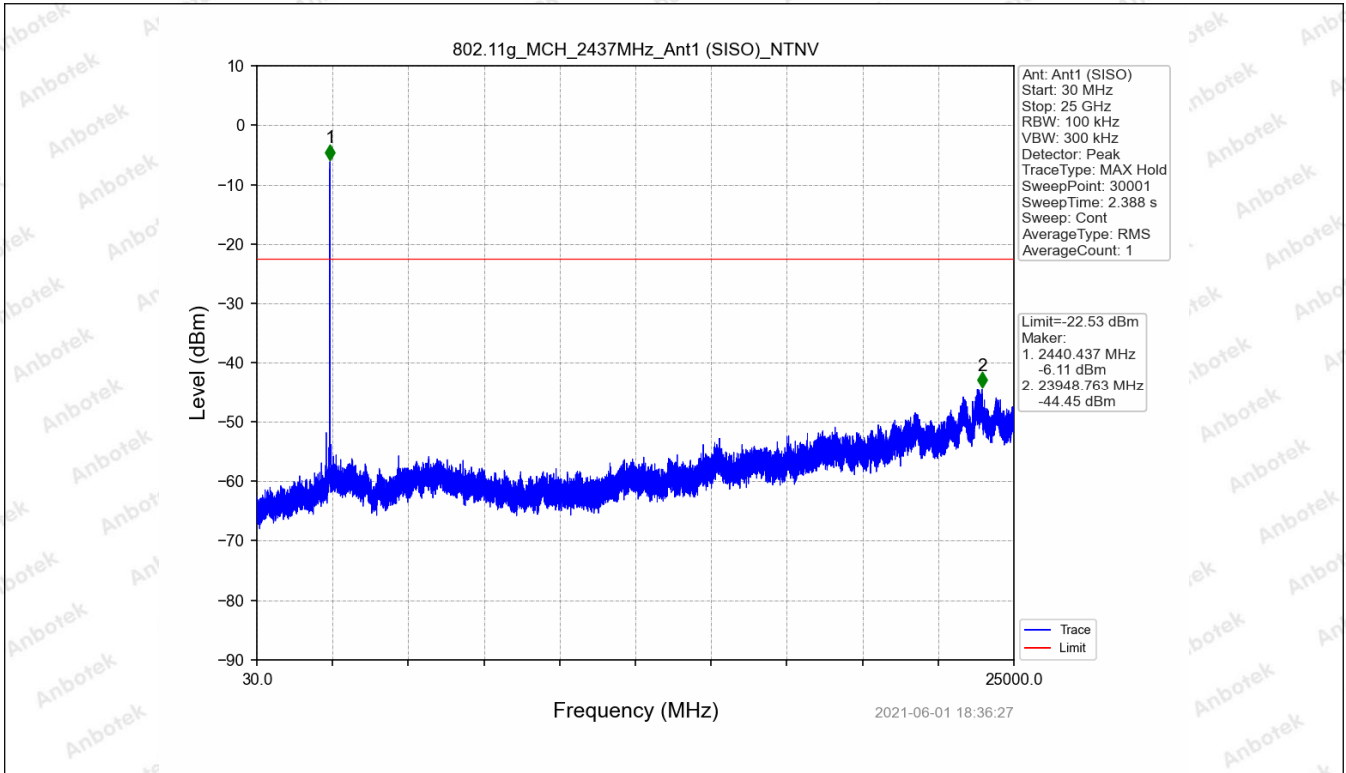
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

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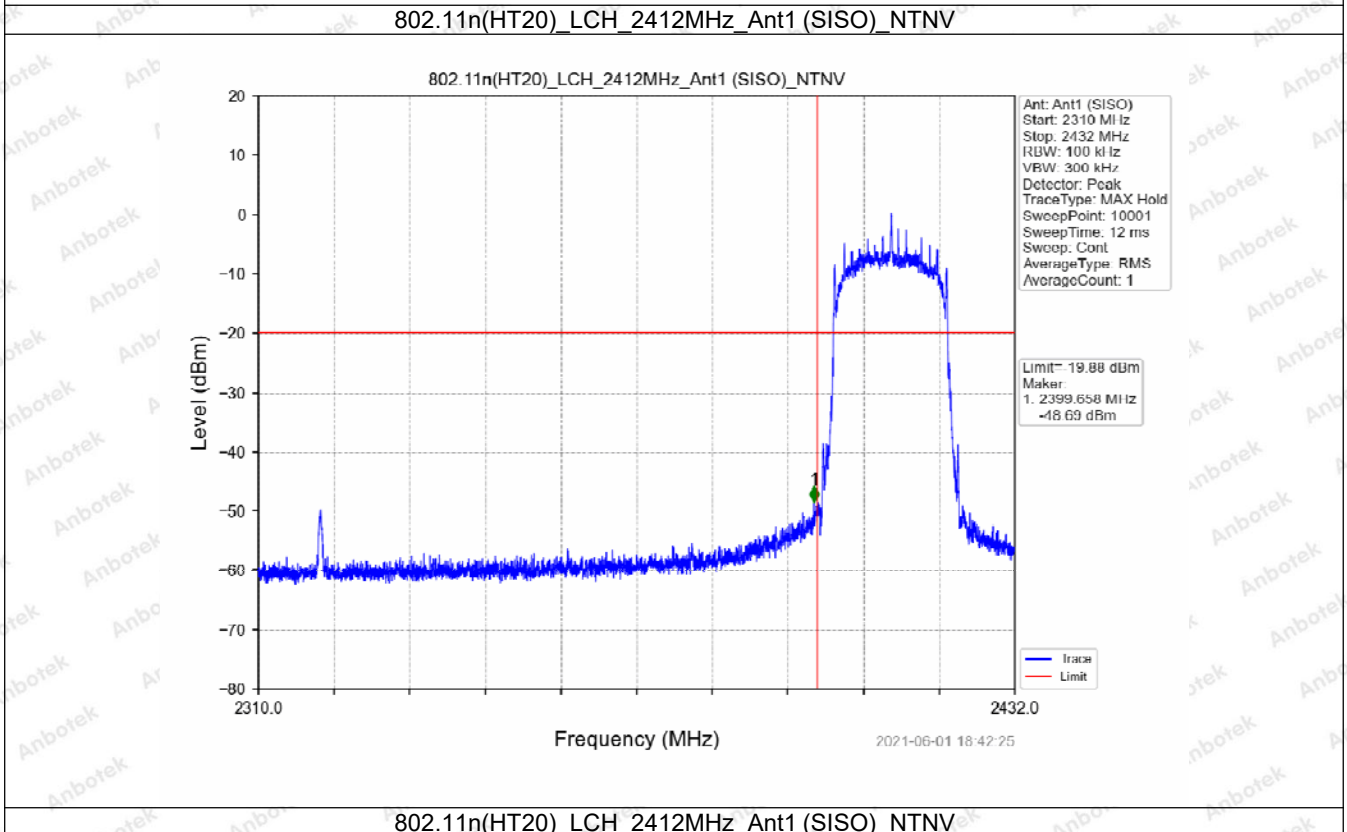
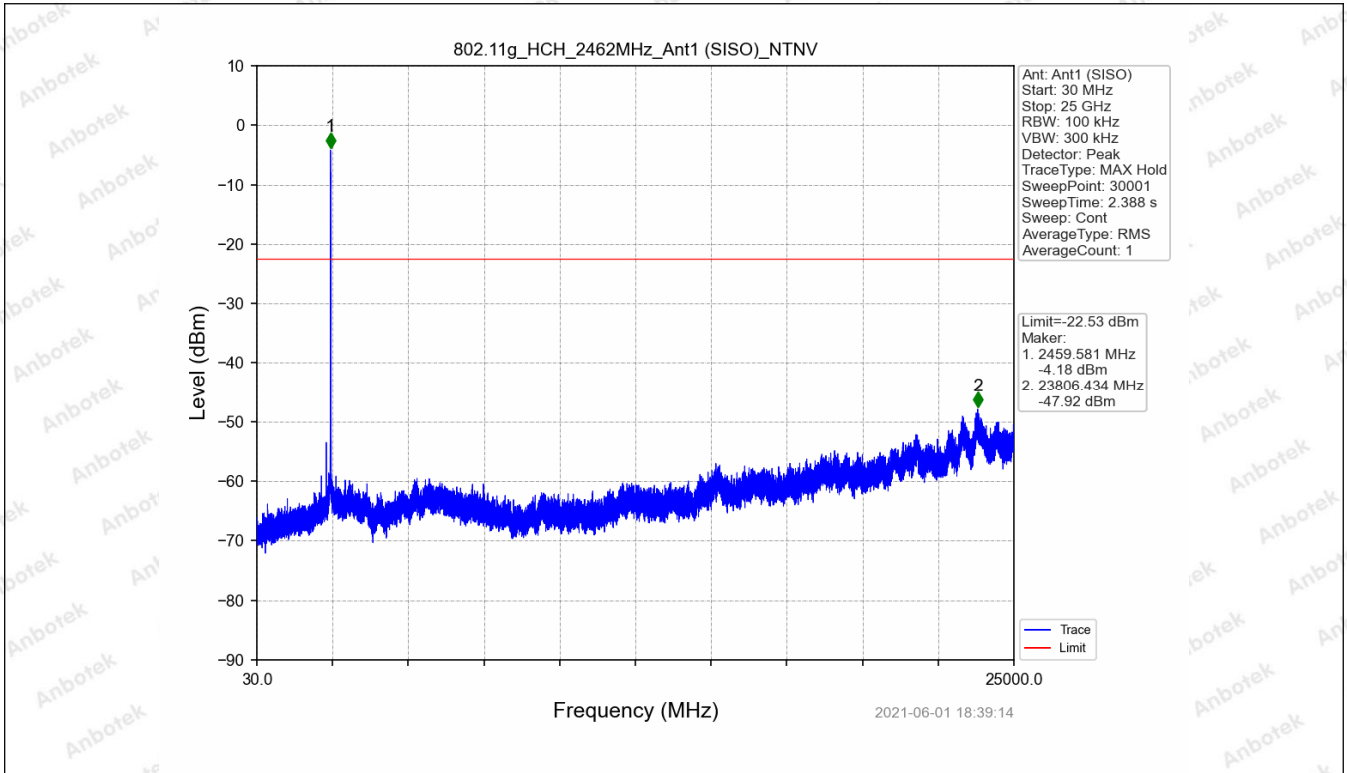
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

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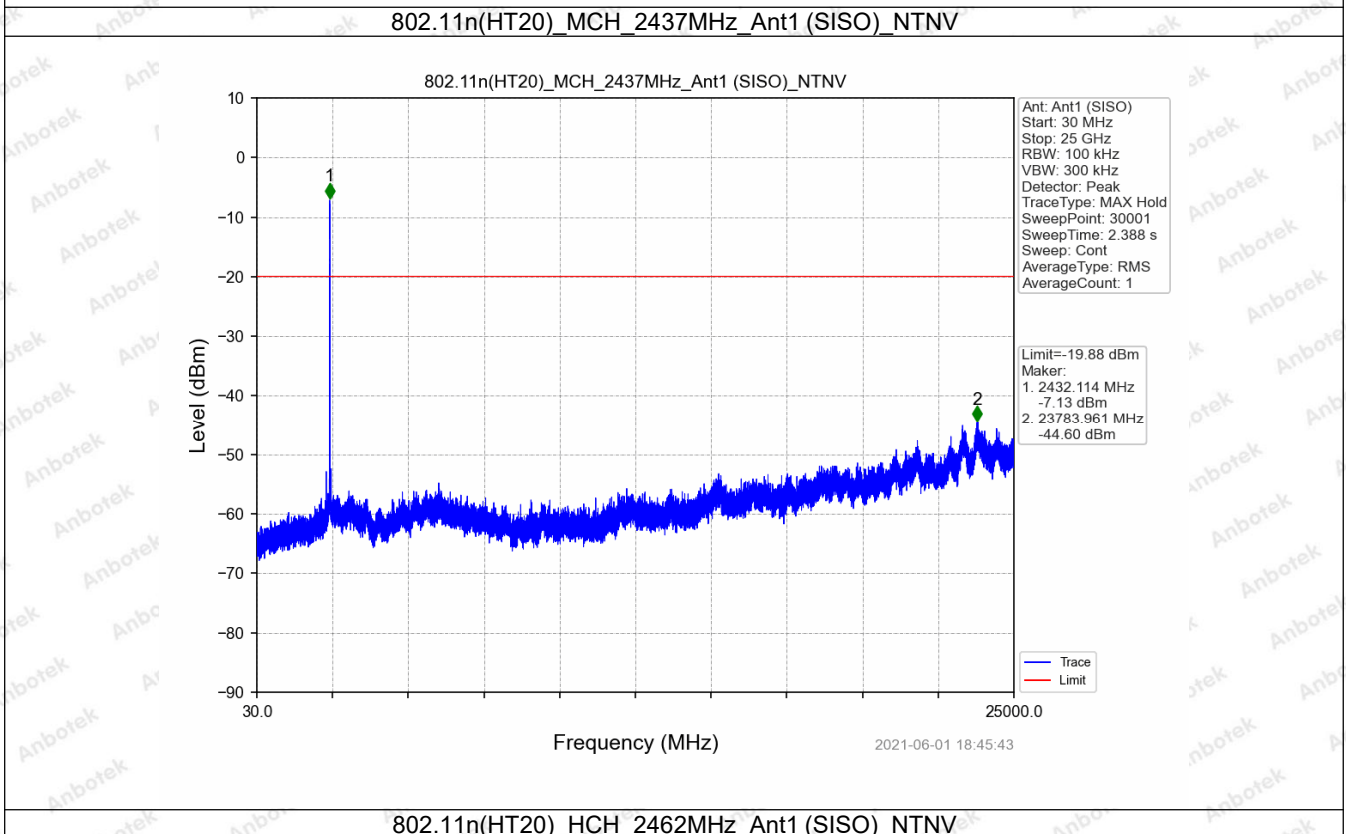
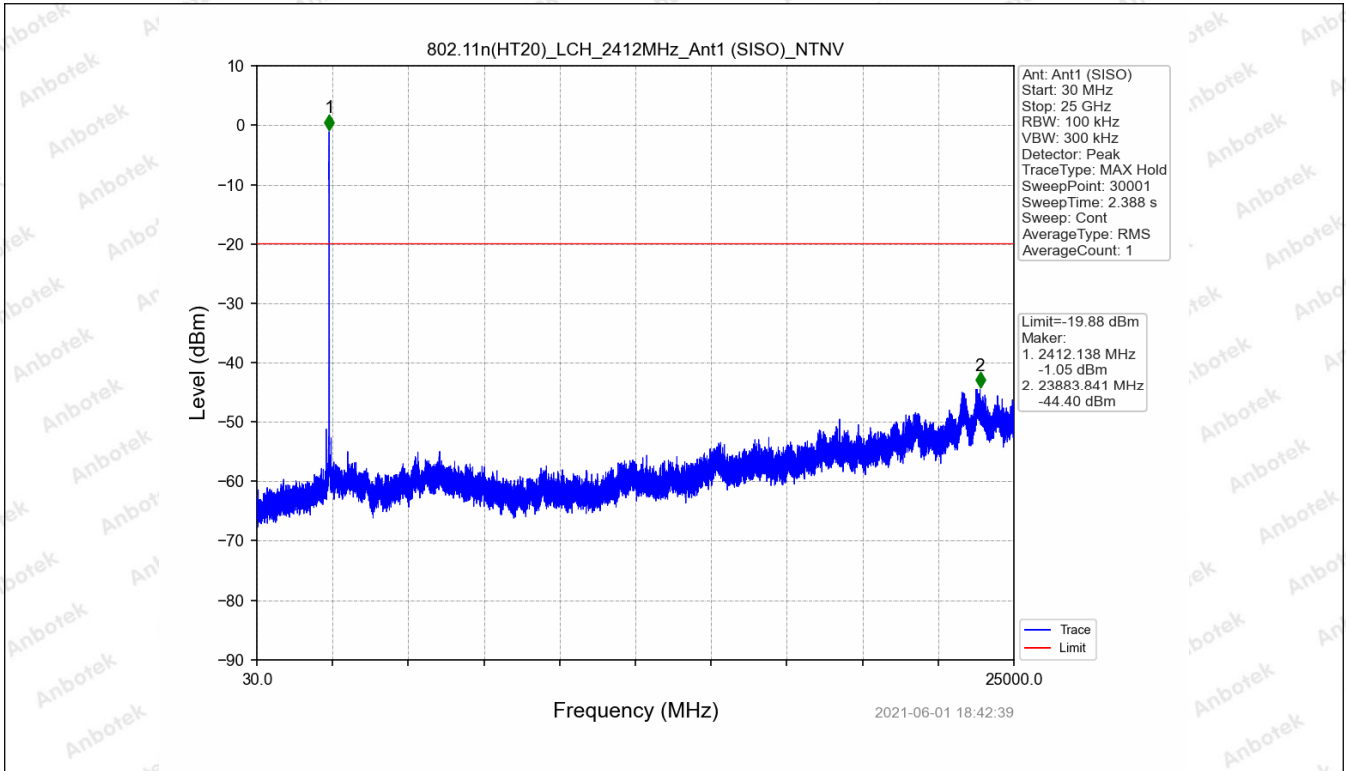
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

Shenzhen Anbotek Compliance Laboratory Limited

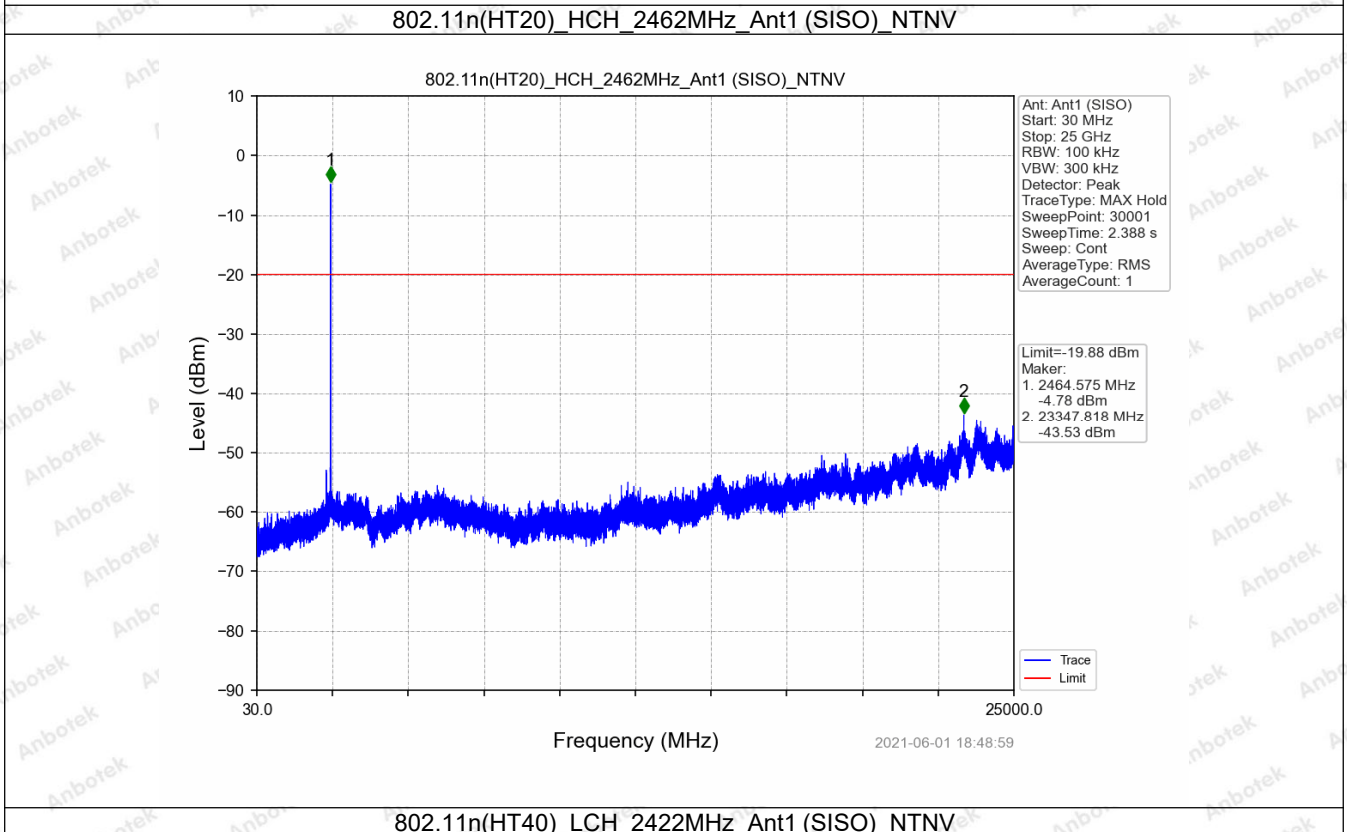
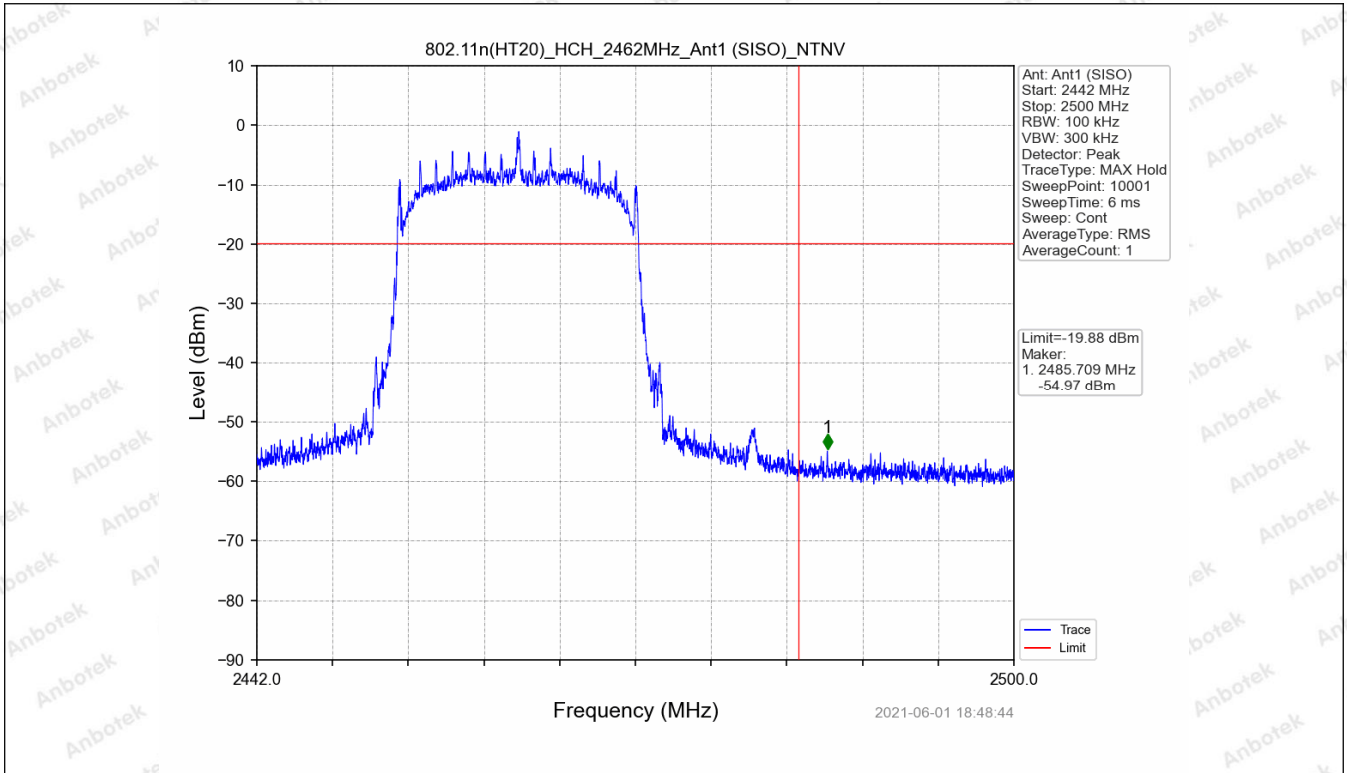
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

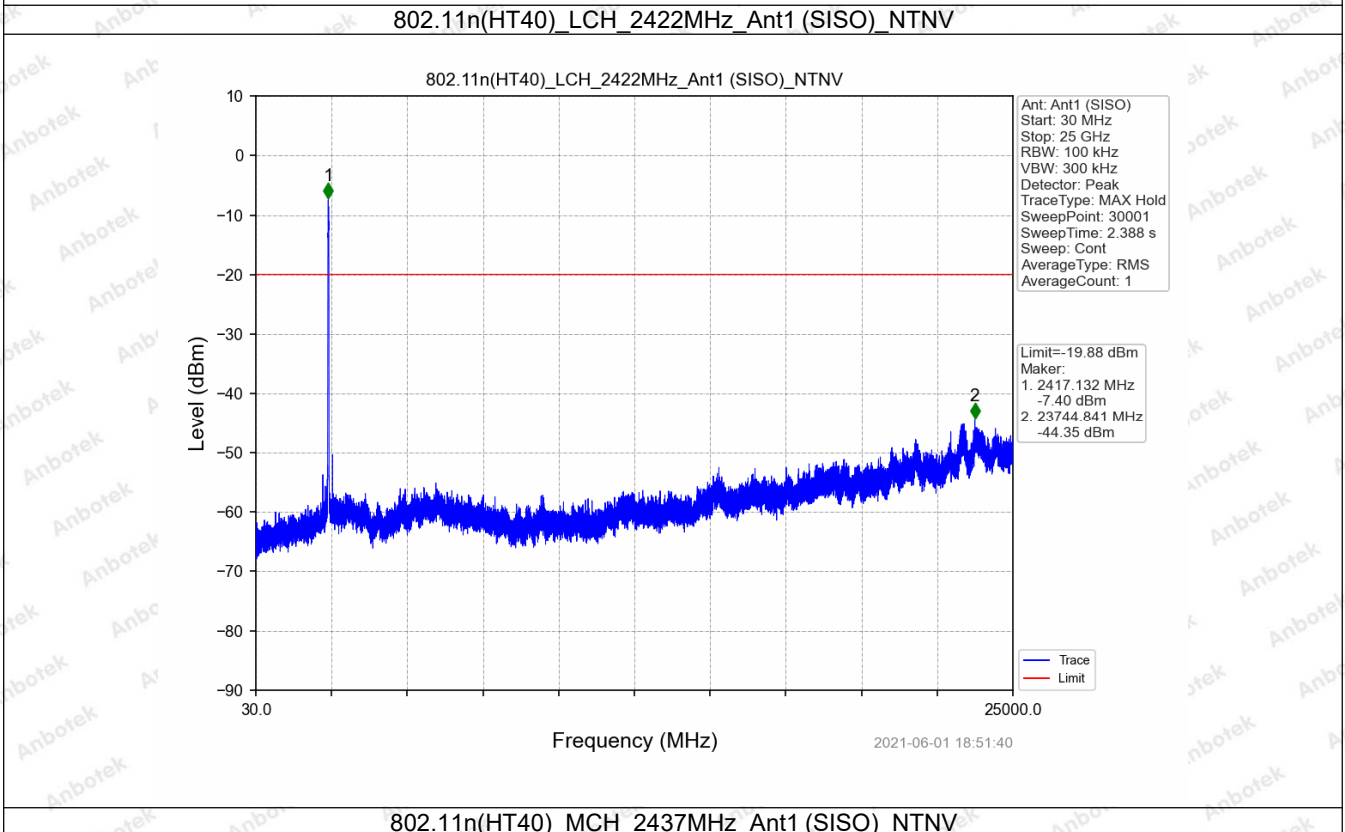
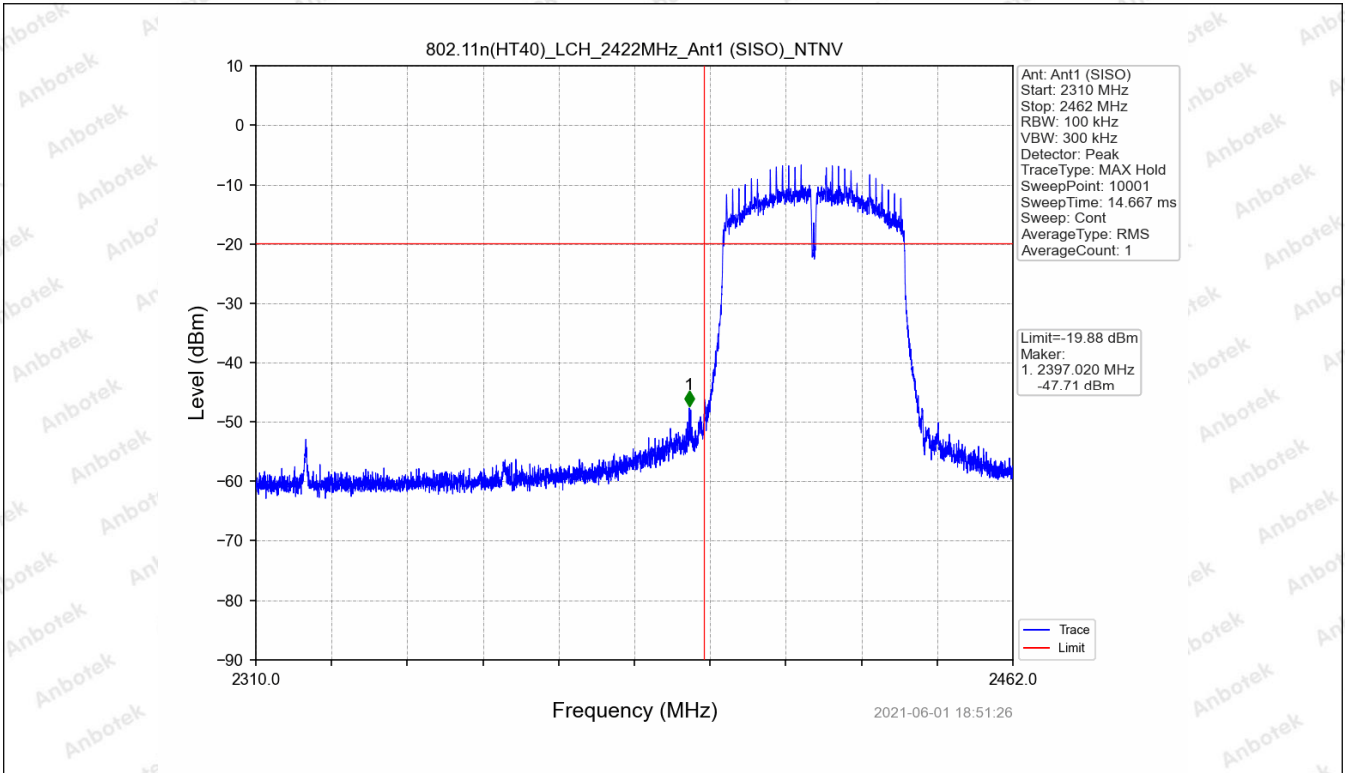
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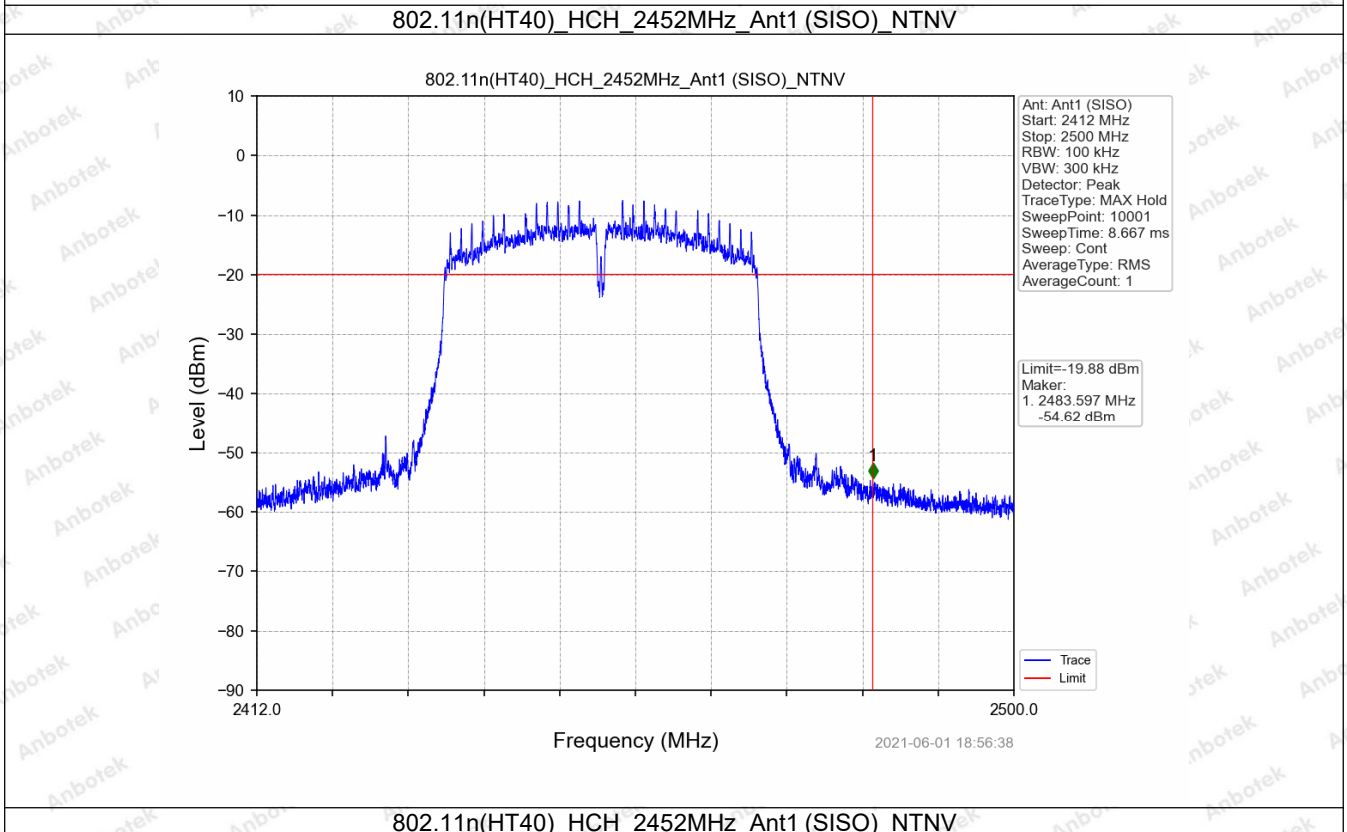
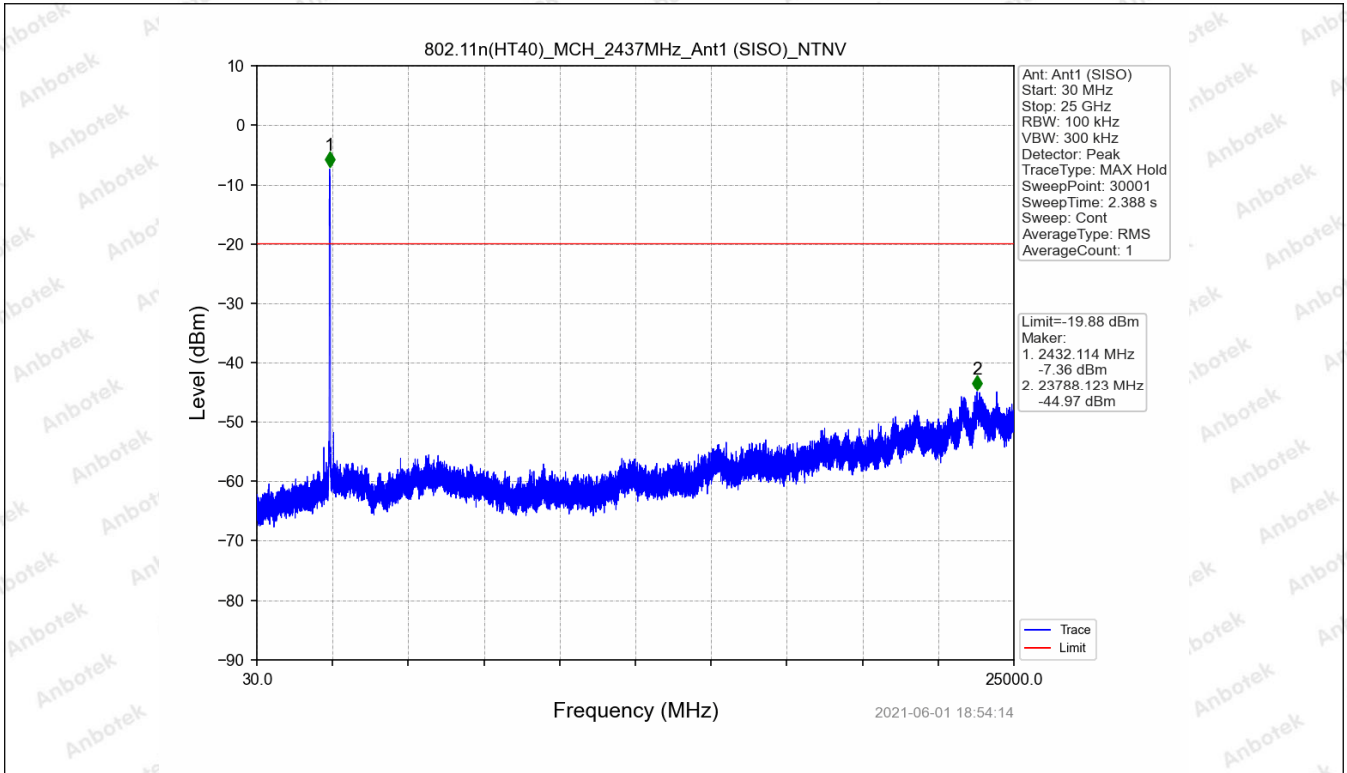
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



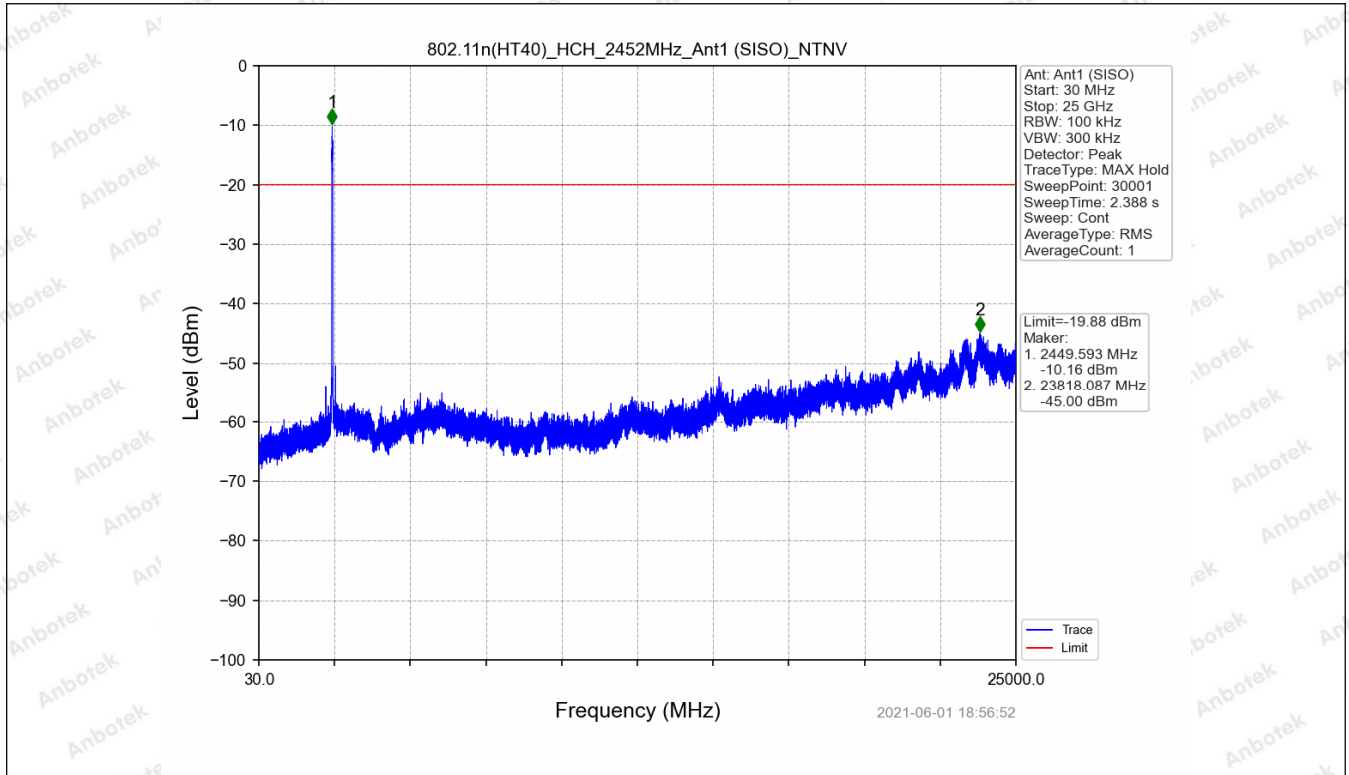
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



---End---