

Appendix Test Data

Project No.:	18220WC10128101	Test Date:	2021.6.22
Test Engineer:	<i>Jomy He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.3°C	Relative Humidity:	56 %
Pressure:	1012 hPa		

1. Duty Cycle

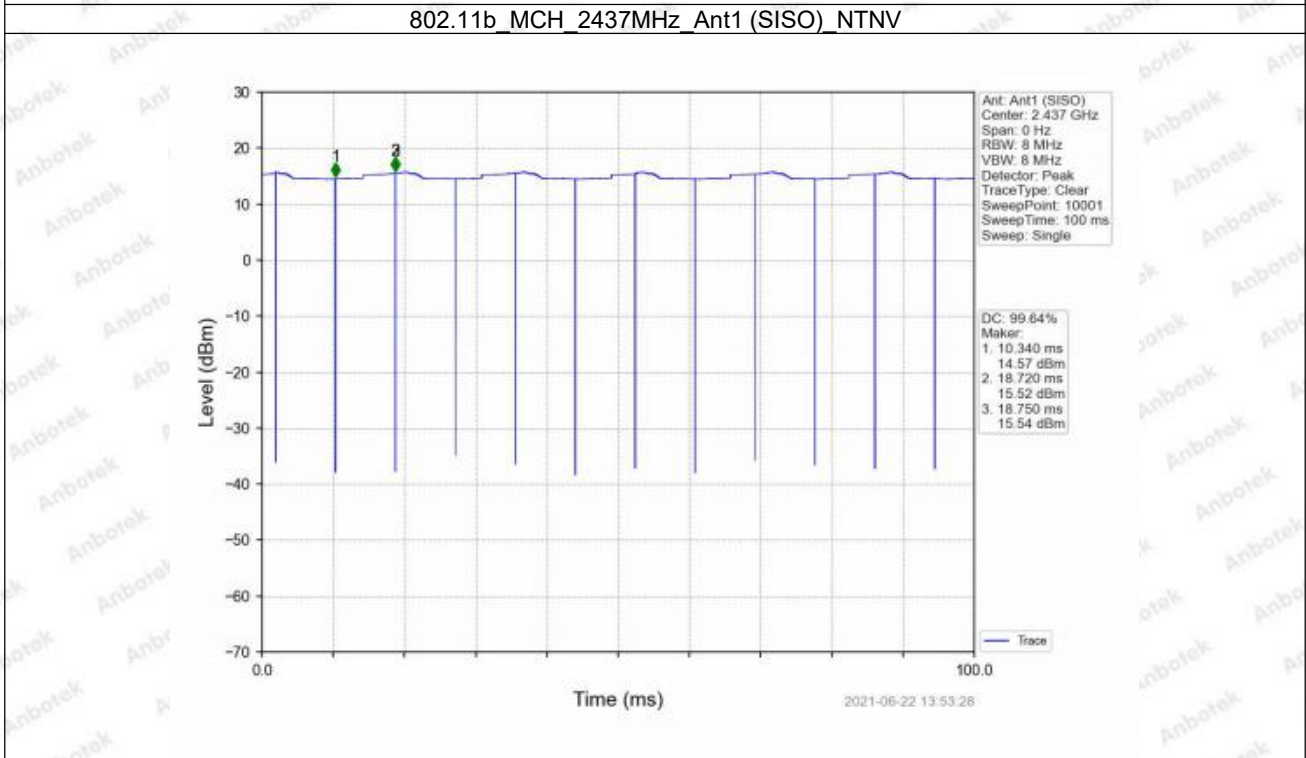
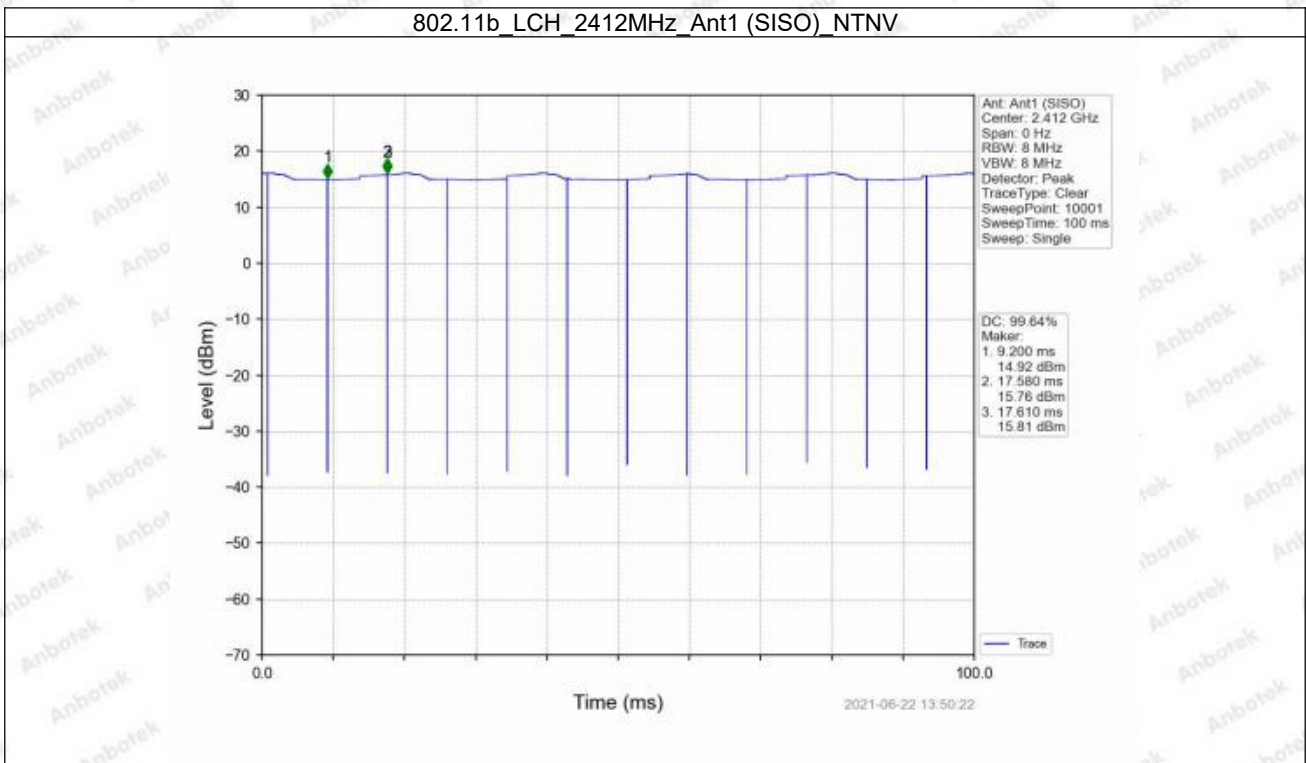
1.1 Ant1

1.1.1 Test Result

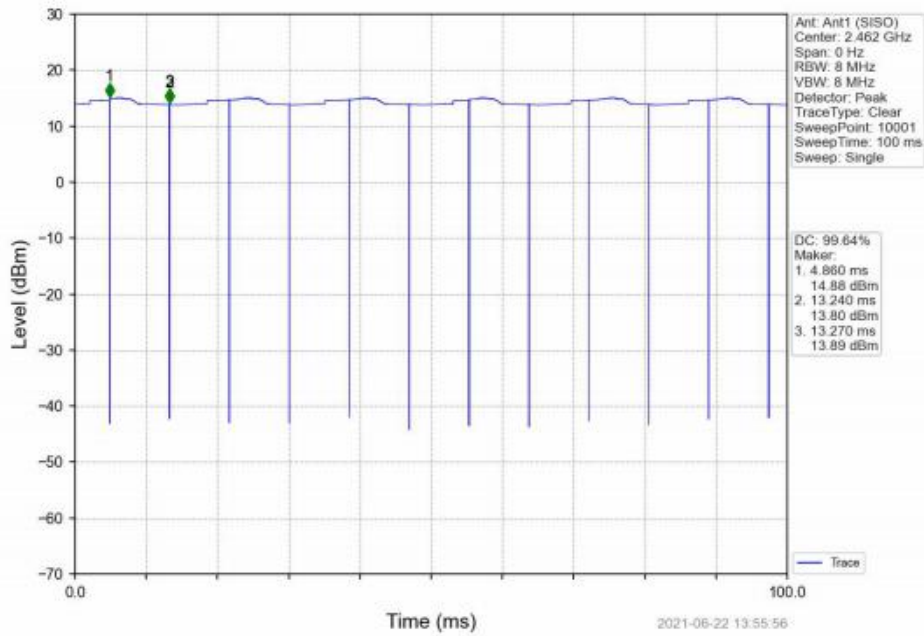
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.38	8.41	99.64	0.02	0.00
		2437	/	/	8.38	8.41	99.64	0.02	0.00
		2462	/	/	8.38	8.41	99.64	0.02	0.00
802.11g	SISO	2412	/	/	1.39	1.43	97.41	0.11	0.10
		2437	/	/	1.39	1.43	97.41	0.11	0.10
		2462	/	/	1.39	1.43	97.41	0.11	0.10
802.11n (HT20)	SISO	2412	/	/	1.30	1.33	97.30	0.12	0.10
		2437	/	/	1.30	1.34	97.31	0.12	0.10
		2462	/	/	1.30	1.34	97.23	0.12	0.10

Note1: Only for Report Use

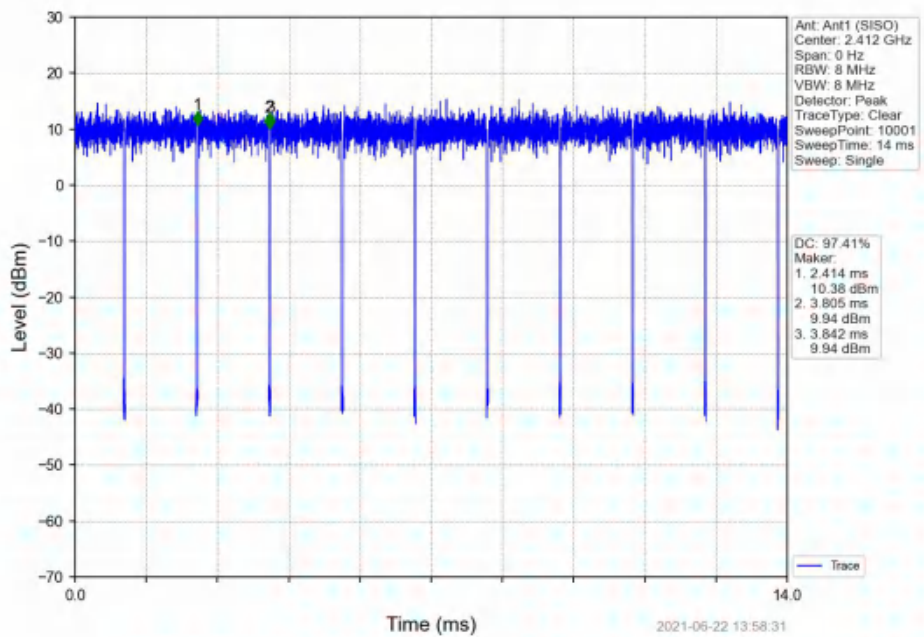
1.1.2 Test Graph



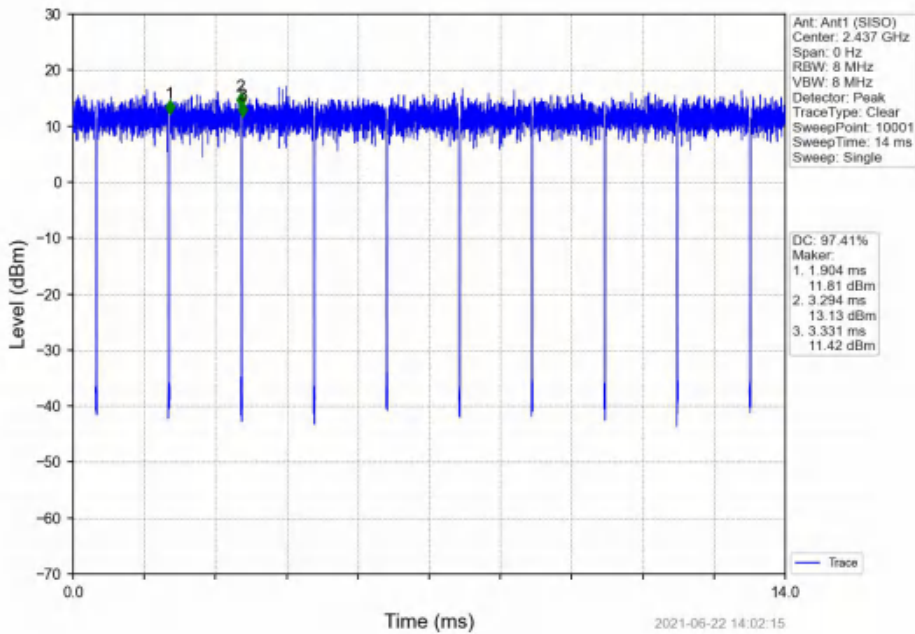
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



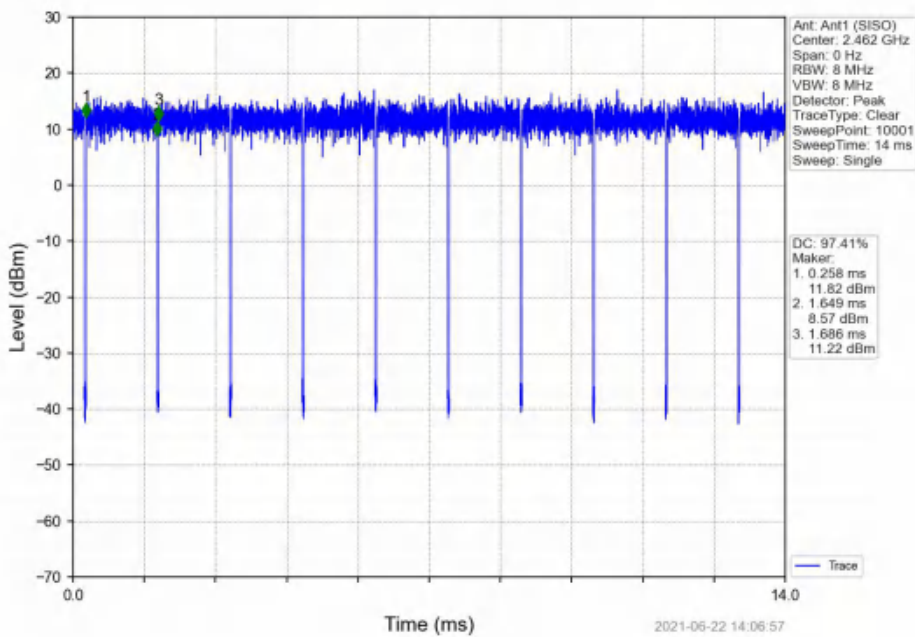
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



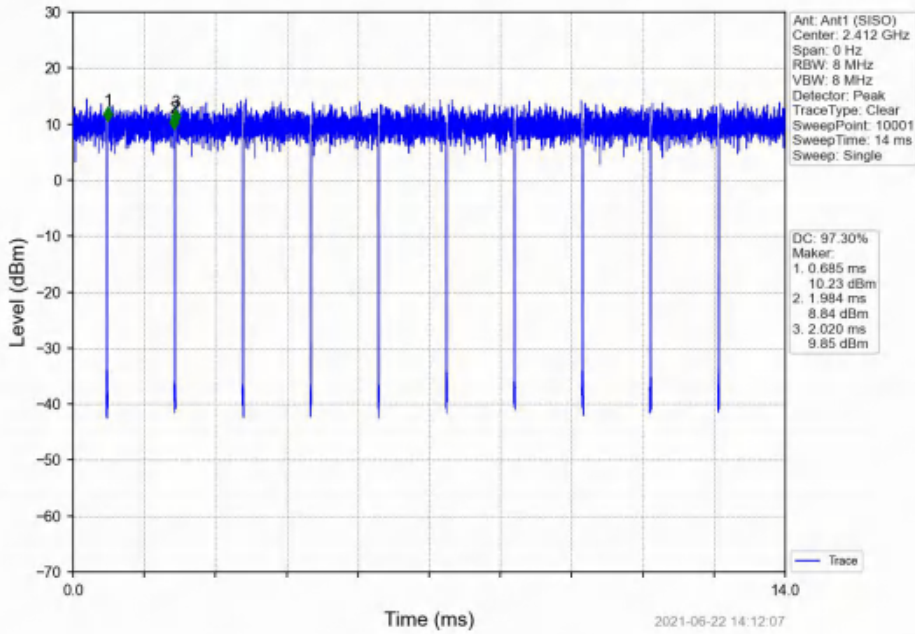
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



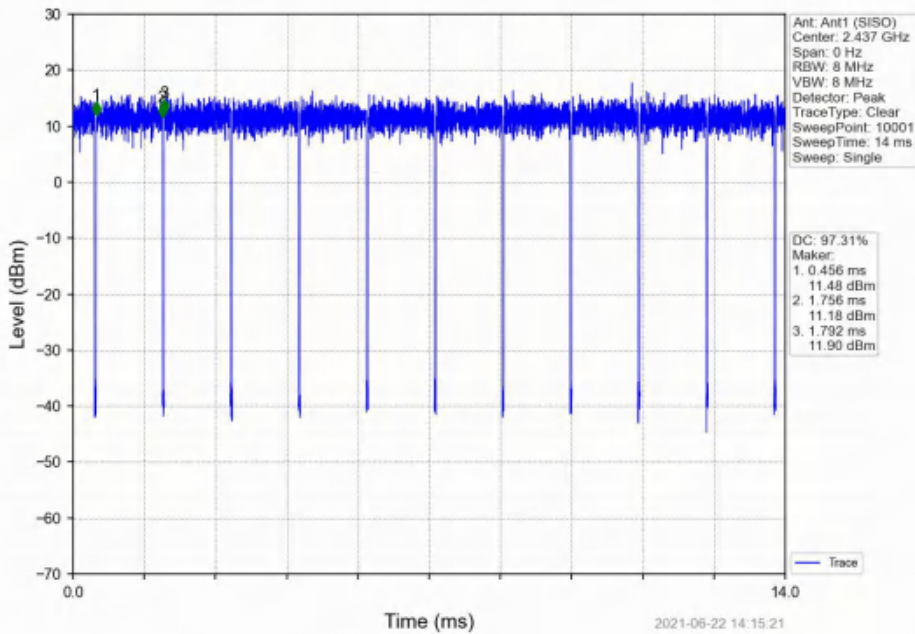
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



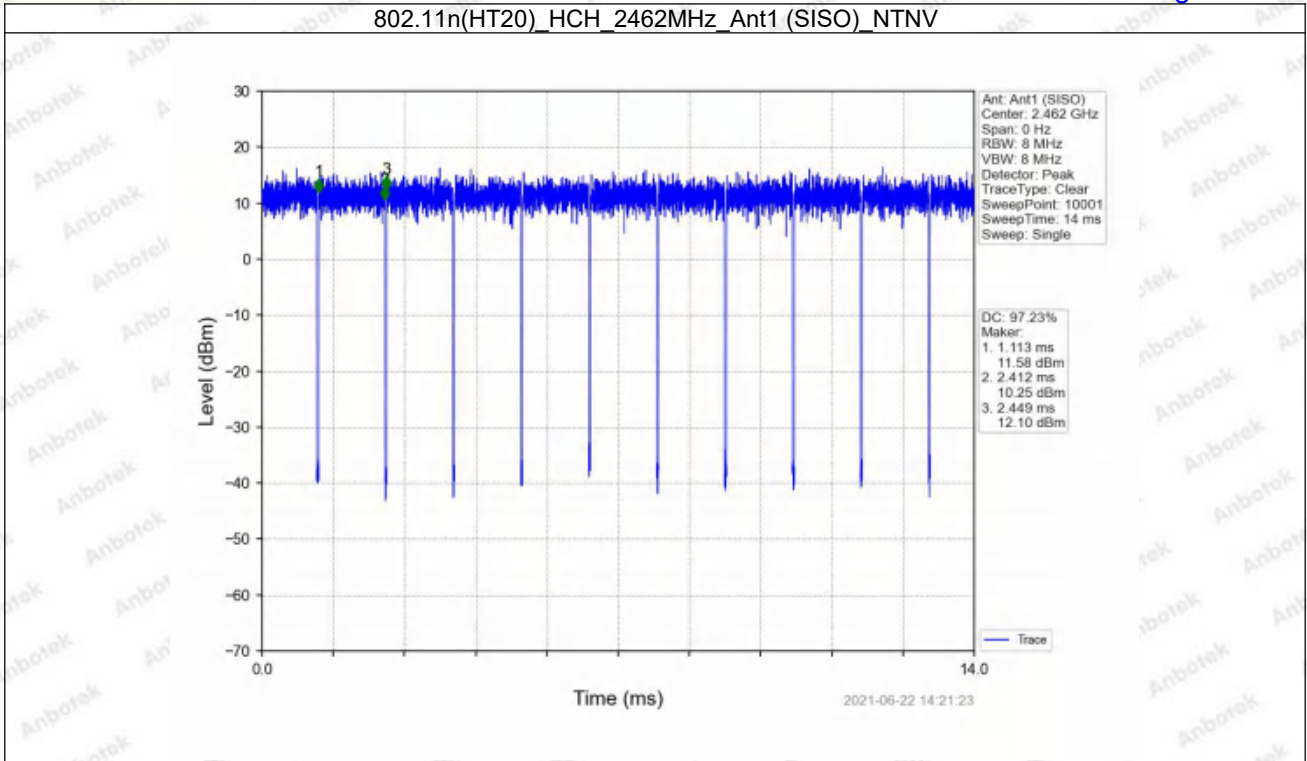
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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2. Bandwidth

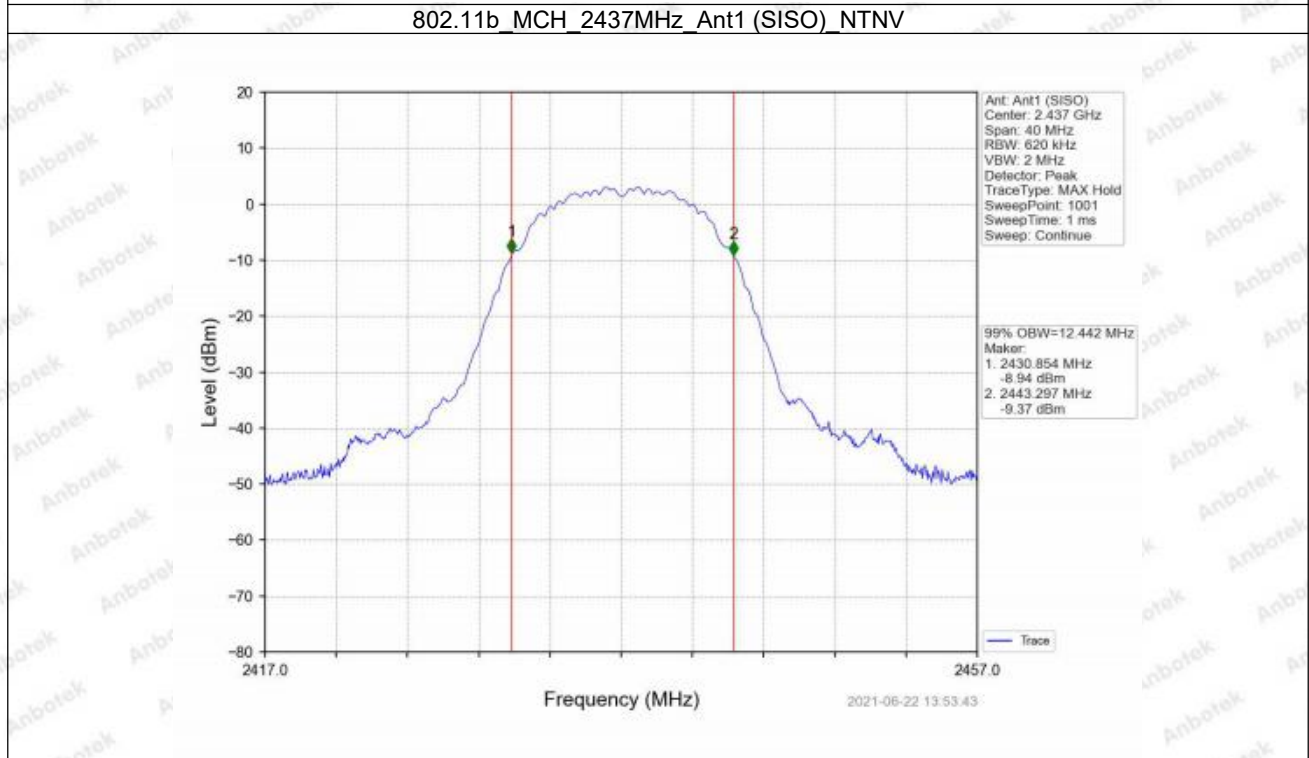
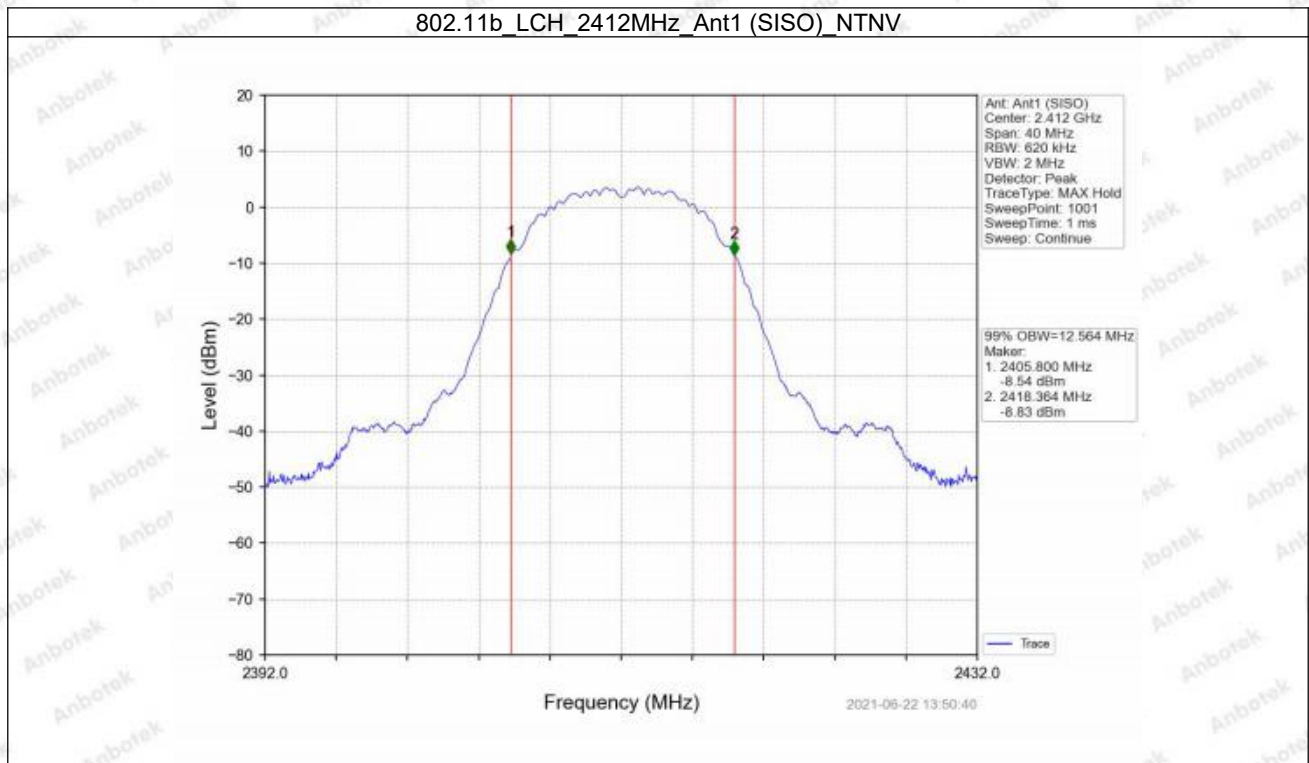
2.1 OBW

2.1.1 Test Result

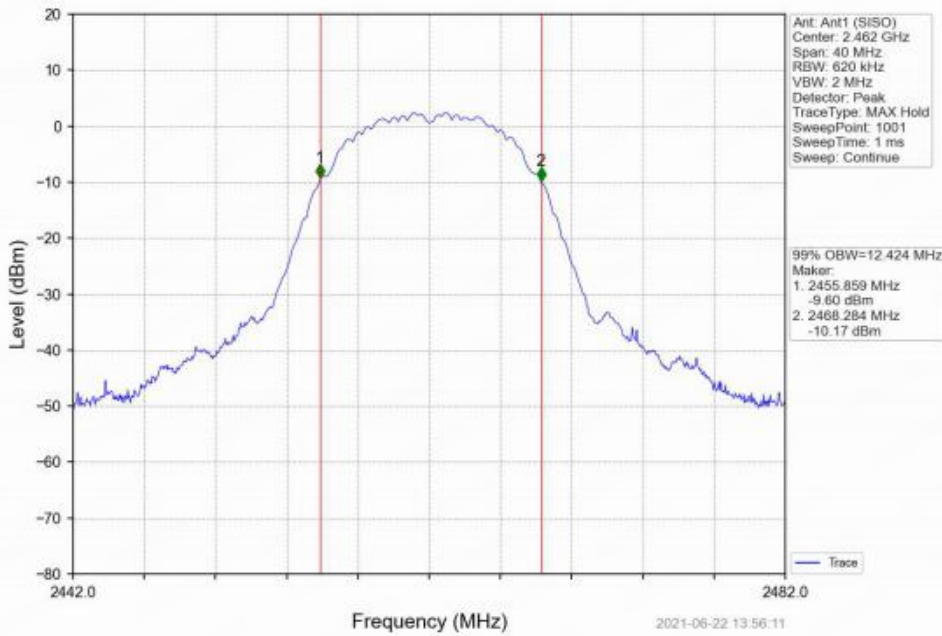
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	99% Occupied Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	12.56	/	Note1
		2437	/	/	1	12.44	/	Note1
		2462	/	/	1	12.42	/	Note1
802.11g	SISO	2412	/	/	1	17.48	/	Note1
		2437	/	/	1	17.77	/	Note1
		2462	/	/	1	18.08	/	Note1
802.11n (HT20)	SISO	2412	/	/	1	18.11	/	Note1
		2437	/	/	1	18.40	/	Note1
		2462	/	/	1	18.71	/	Note1

Note1: Only for Report Use

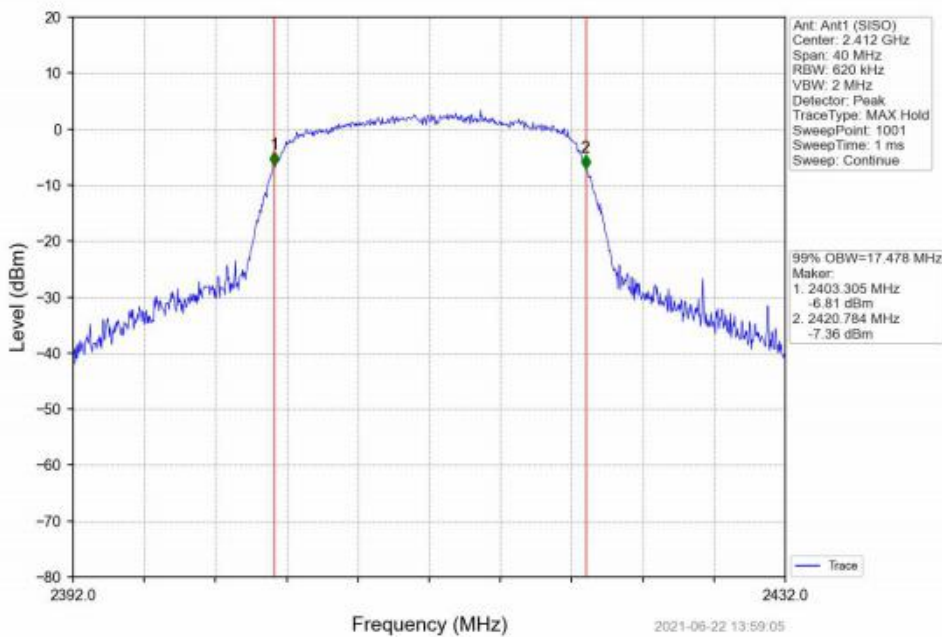
2.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



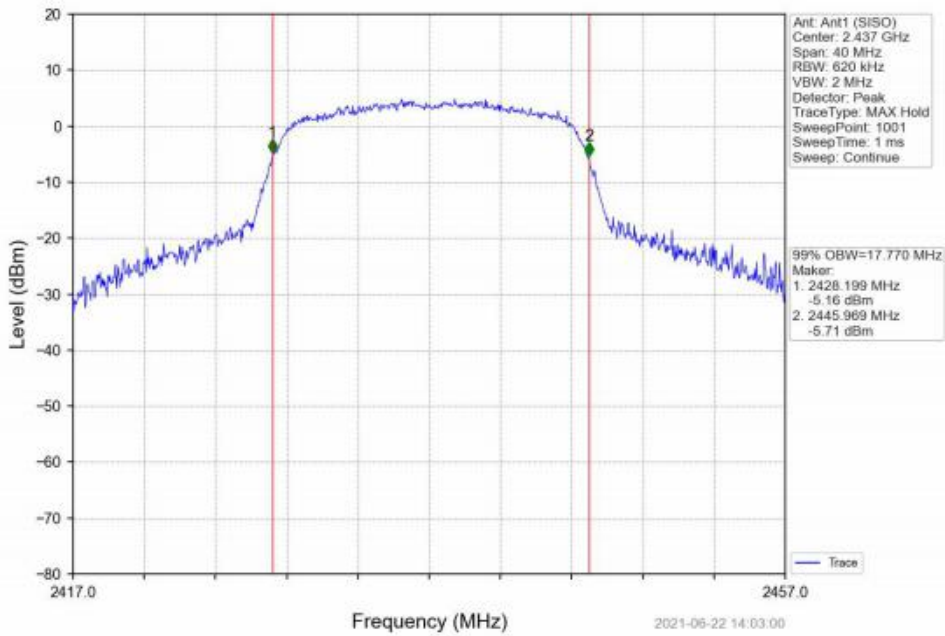
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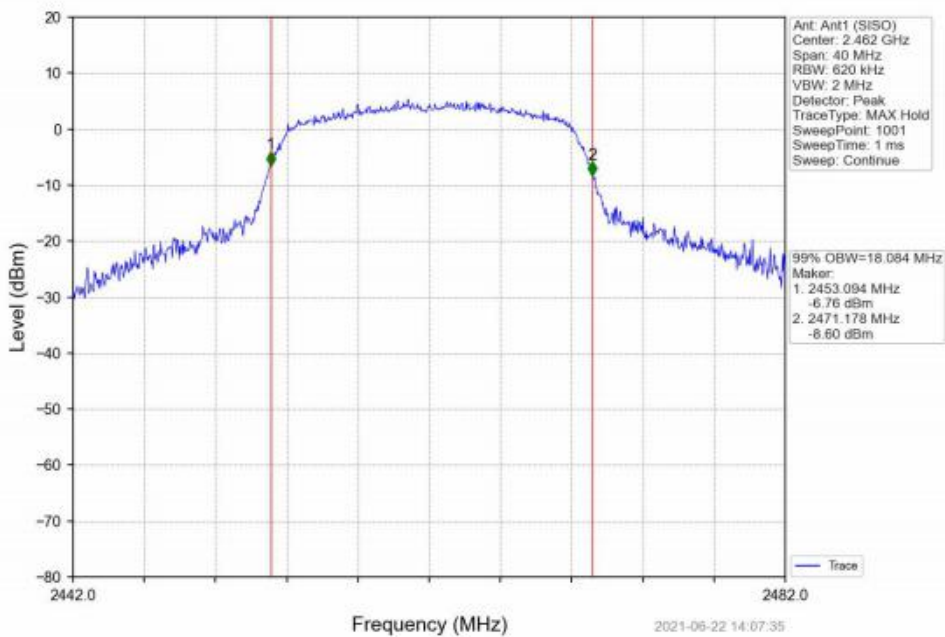
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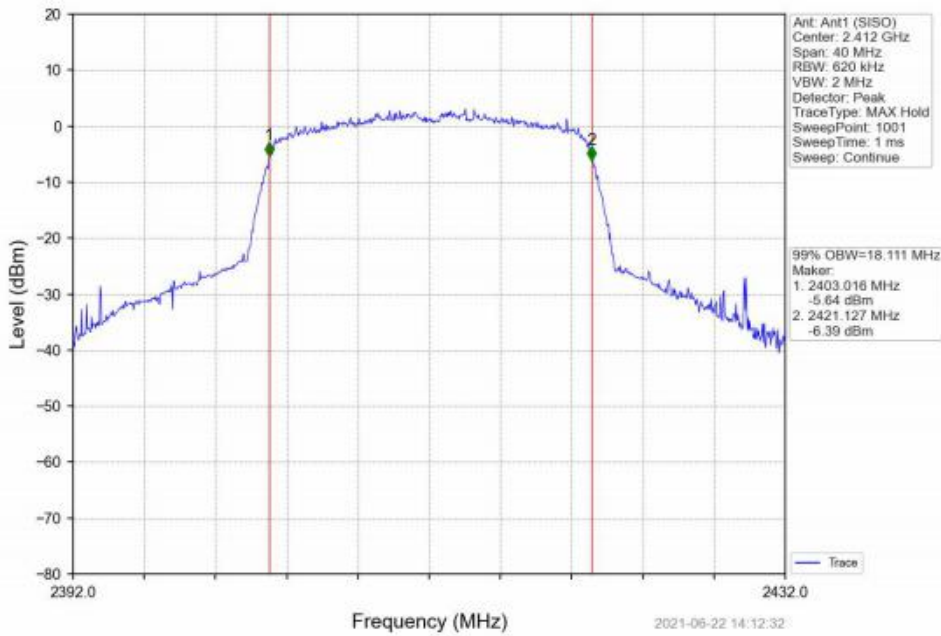
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



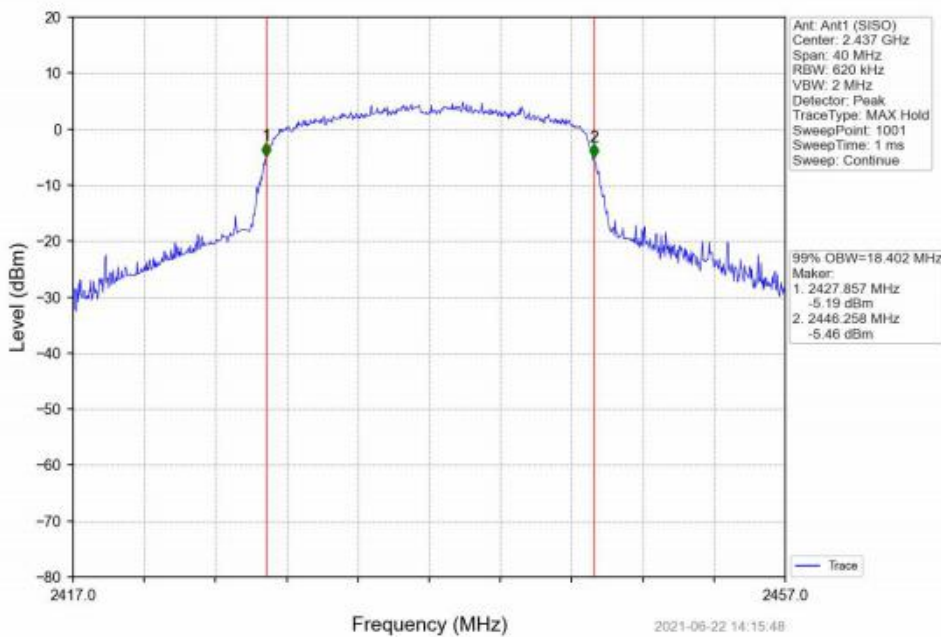
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



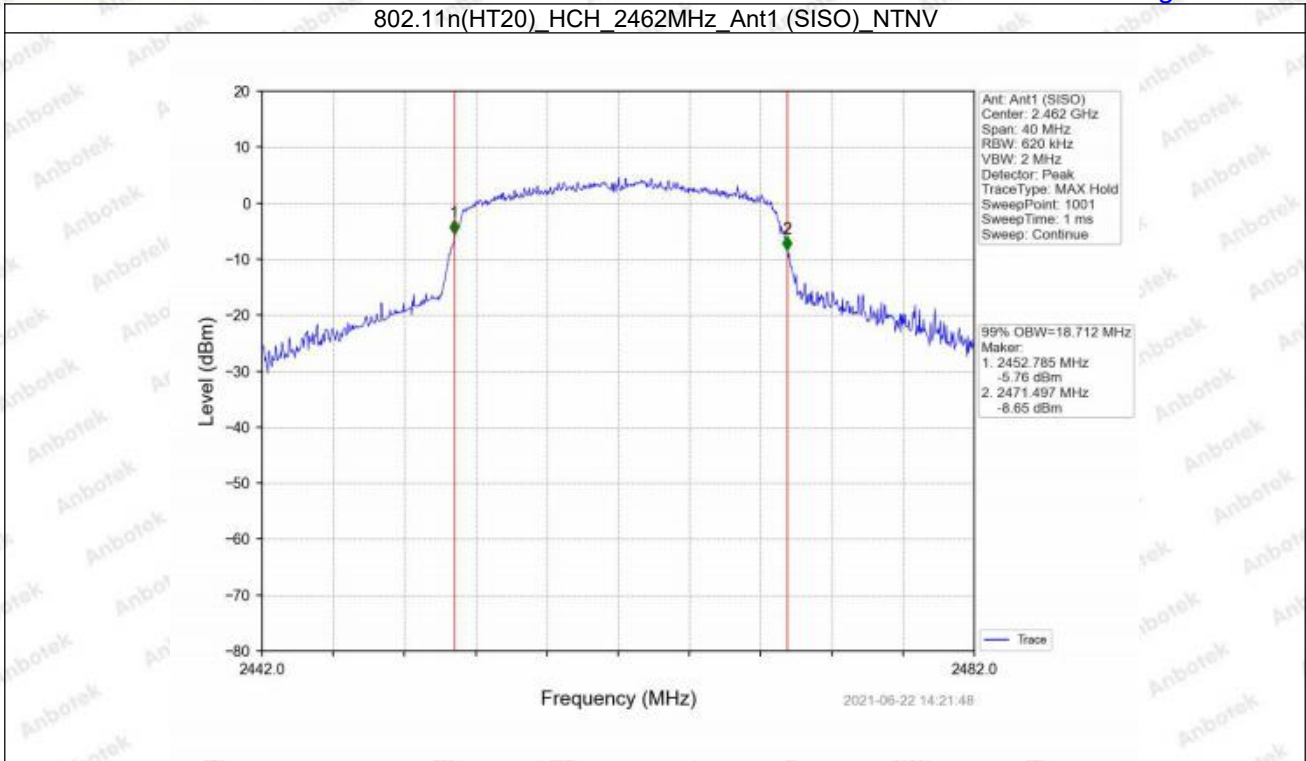
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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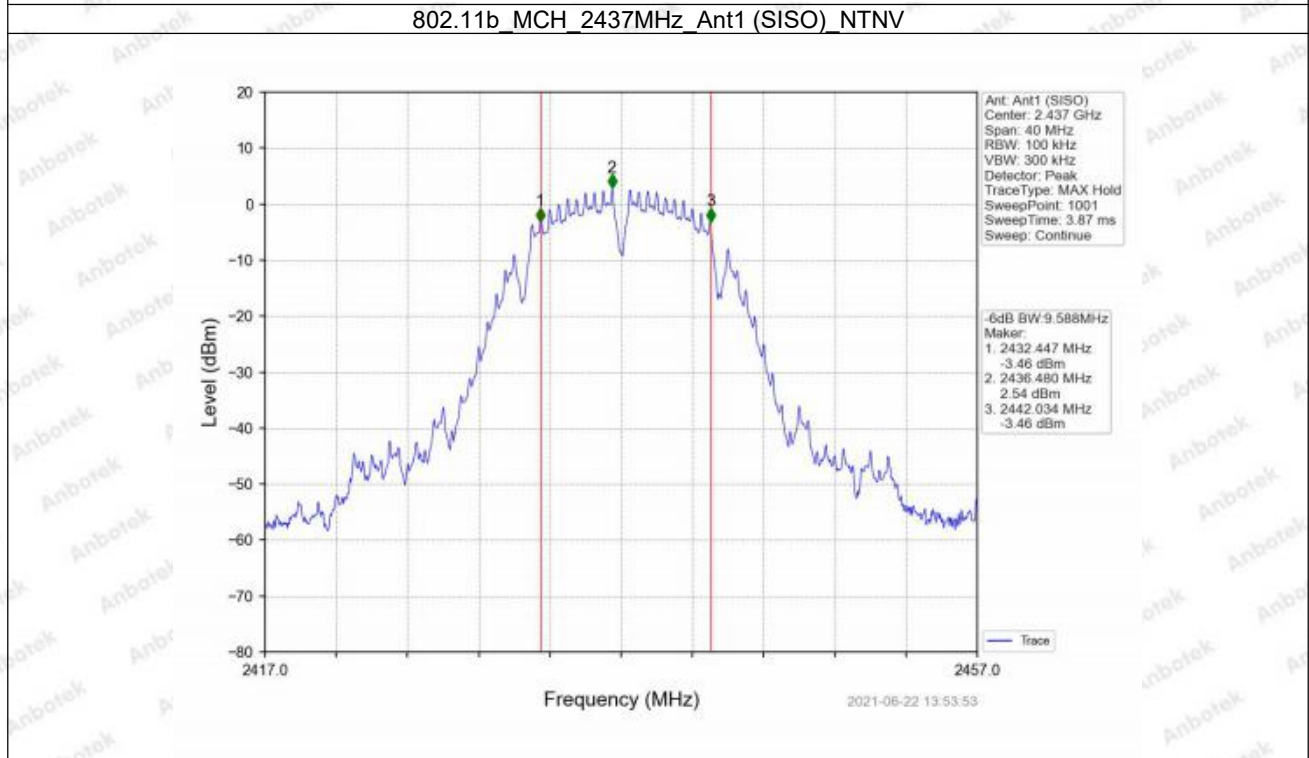
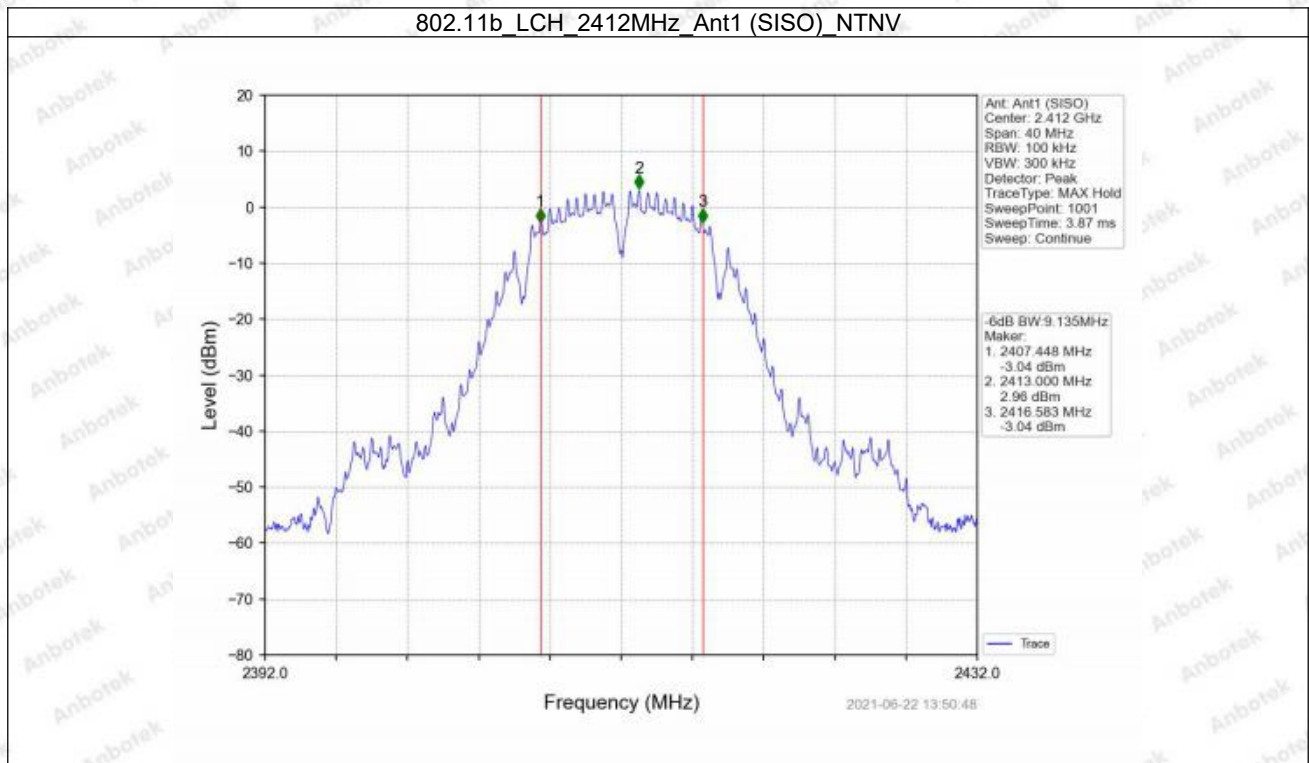
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2.2 6dB BW

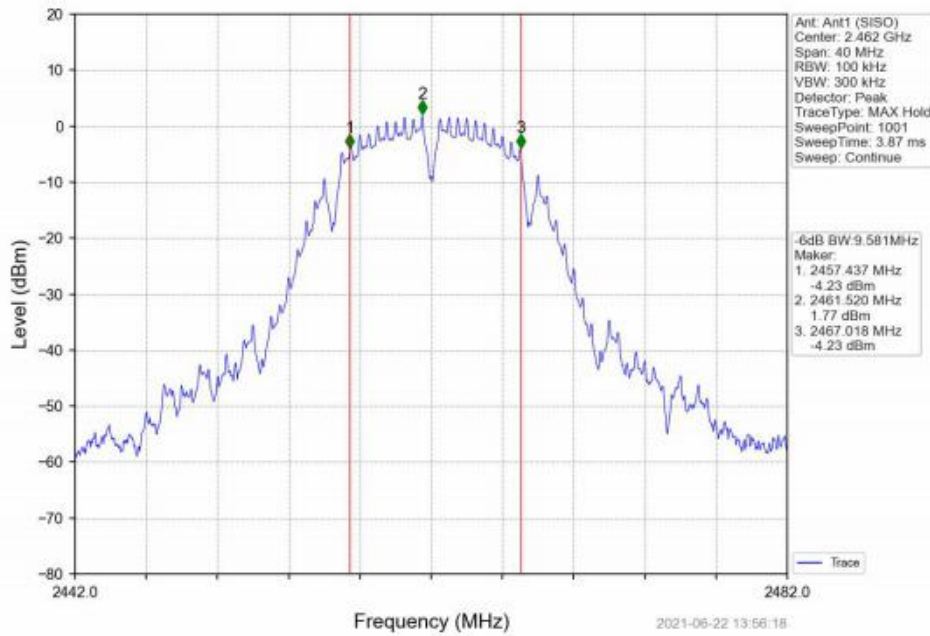
2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
802.11b	SISO	2412	/	/	1	9.13	>=0.5	Pass
		2437	/	/	1	9.59	>=0.5	Pass
		2462	/	/	1	9.58	>=0.5	Pass
802.11g	SISO	2412	/	/	1	15.17	>=0.5	Pass
		2437	/	/	1	15.17	>=0.5	Pass
		2462	/	/	1	15.35	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	15.17	>=0.5	Pass
		2437	/	/	1	15.31	>=0.5	Pass
		2462	/	/	1	15.18	>=0.5	Pass

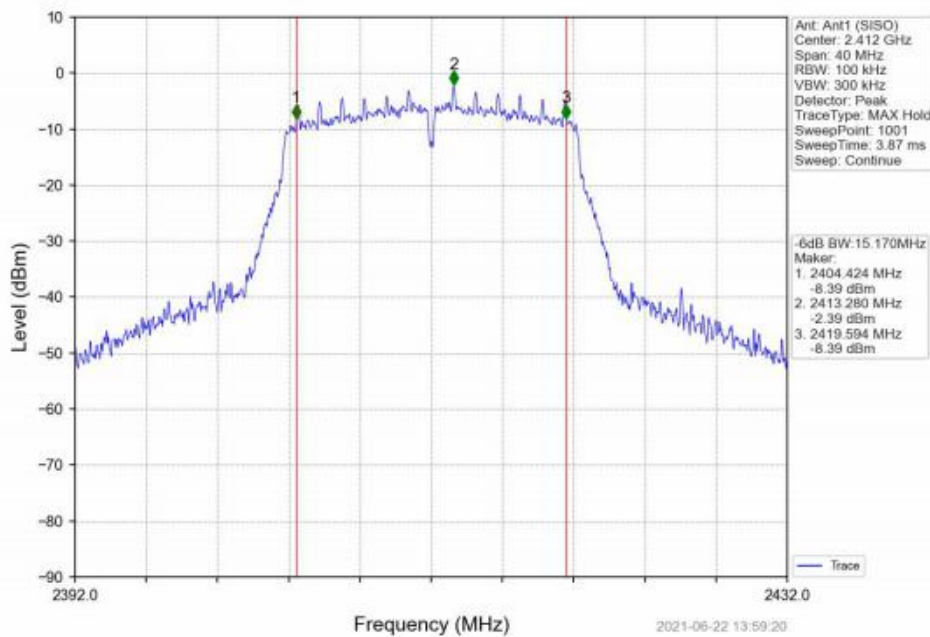
2.2.2 Test Graph



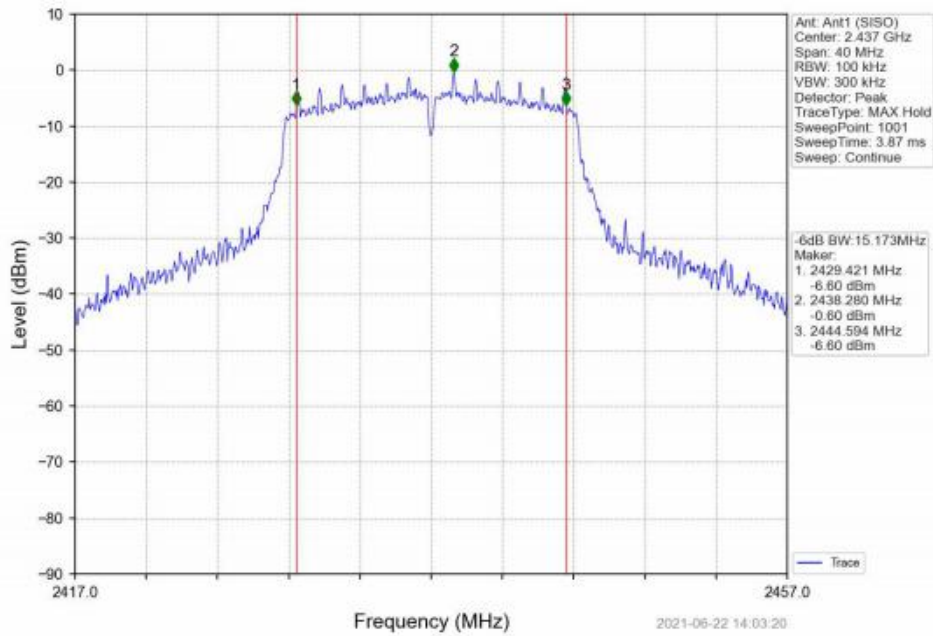
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



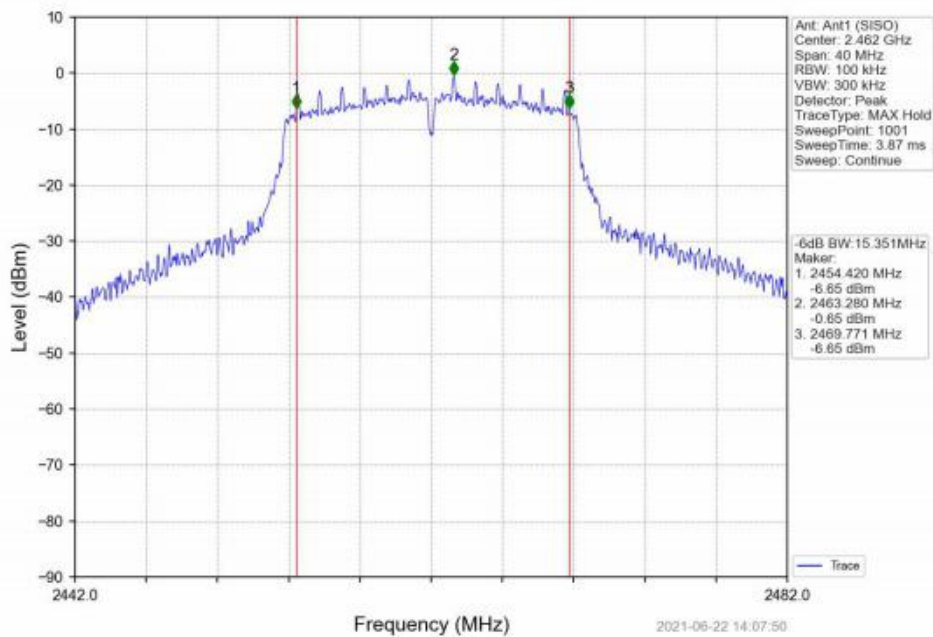
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



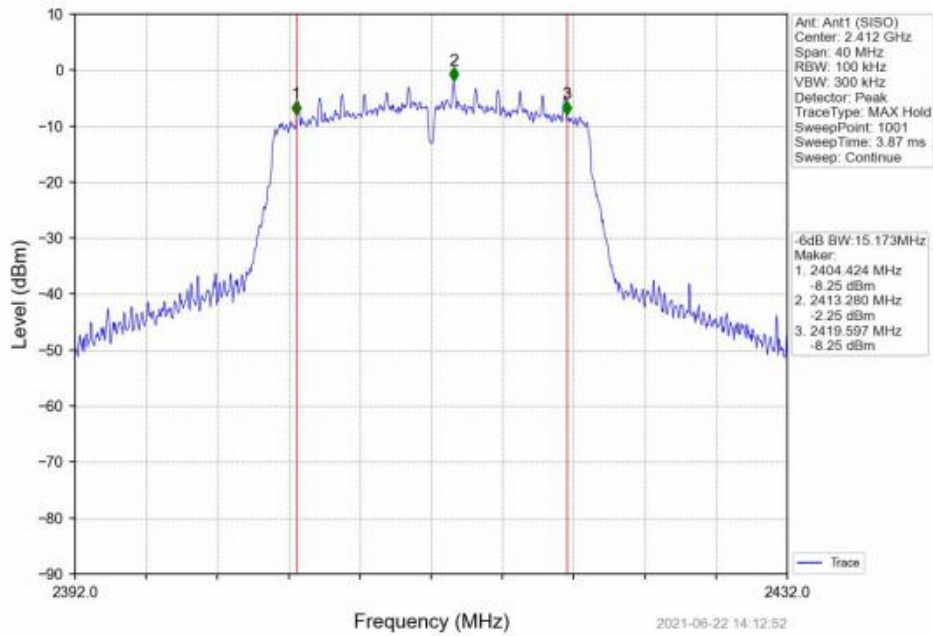
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



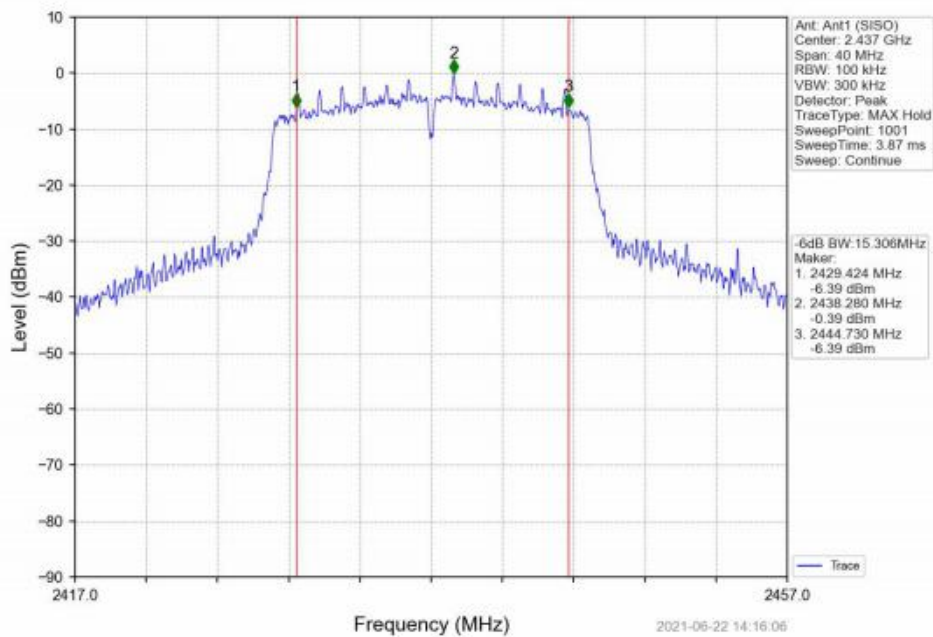
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_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	/	/	14.08	<=30	Pass
		2437	/	/	13.73	<=30	Pass
		2462	/	/	13.08	<=30	Pass
802.11g	SISO	2412	/	/	15.00	<=30	Pass
		2437	/	/	16.75	<=30	Pass
		2462	/	/	16.99	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.06	<=30	Pass
		2437	/	/	16.83	<=30	Pass
		2462	/	/	16.50	<=30	Pass

Note1: Antenna Gain: 1: 1.50dBi;

4. Maximum Power Spectral Density

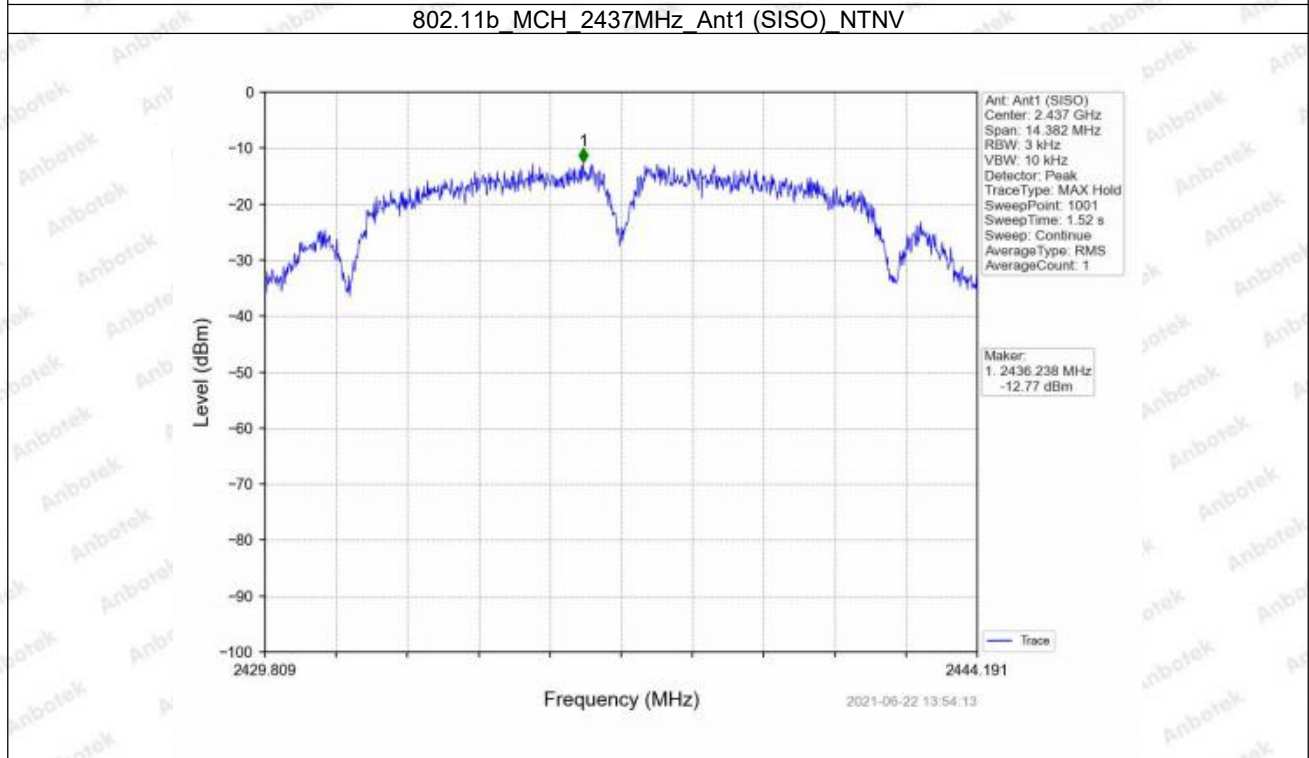
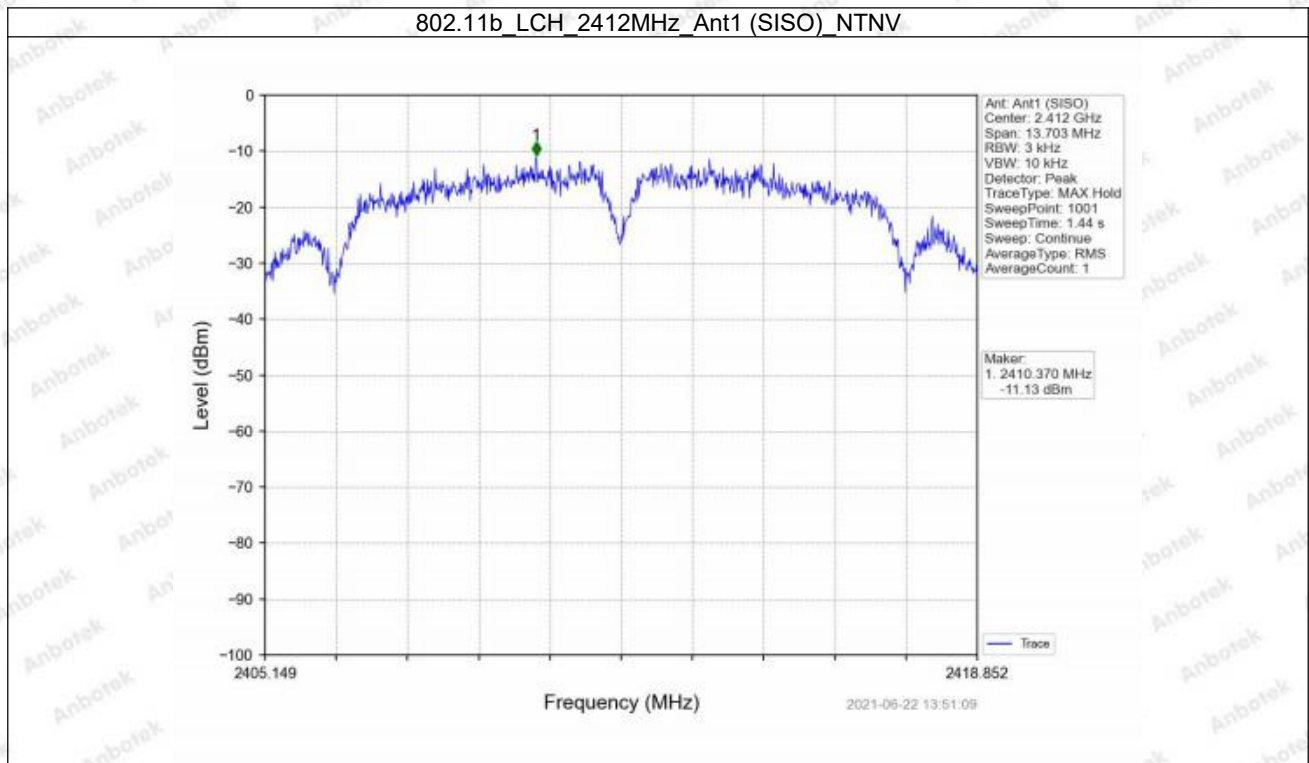
4.1 PSD

4.1.1 Test Result

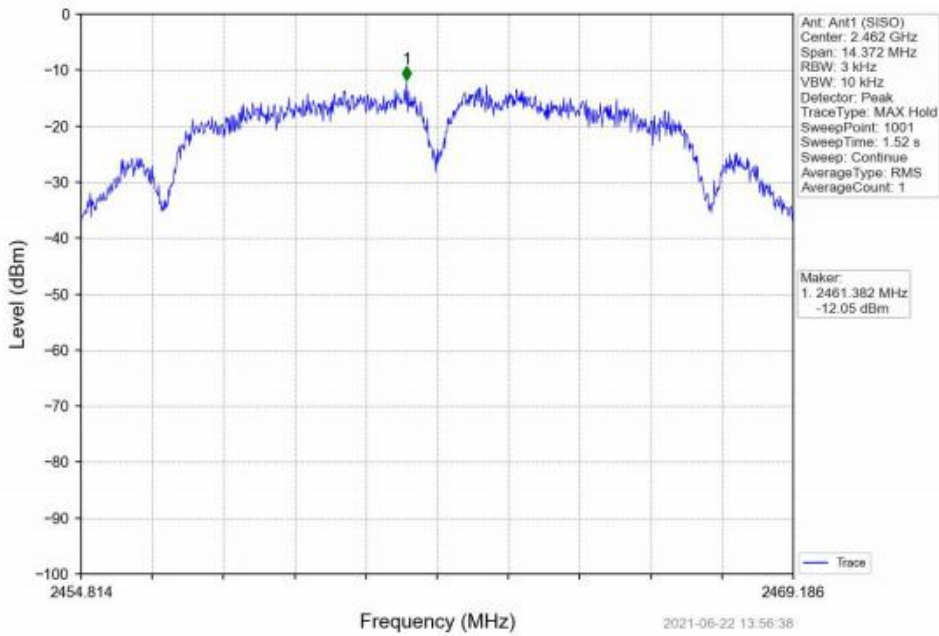
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-11.13	<=8	Pass
		2437	/	/	-12.77	<=8	Pass
		2462	/	/	-12.05	<=8	Pass
802.11g	SISO	2412	/	/	-16.94	<=8	Pass
		2437	/	/	-14.87	<=8	Pass
		2462	/	/	-14.50	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-17.79	<=8	Pass
		2437	/	/	-15.59	<=8	Pass
		2462	/	/	-15.41	<=8	Pass

Note1: Antenna Gain: 1: 1.50dBi;

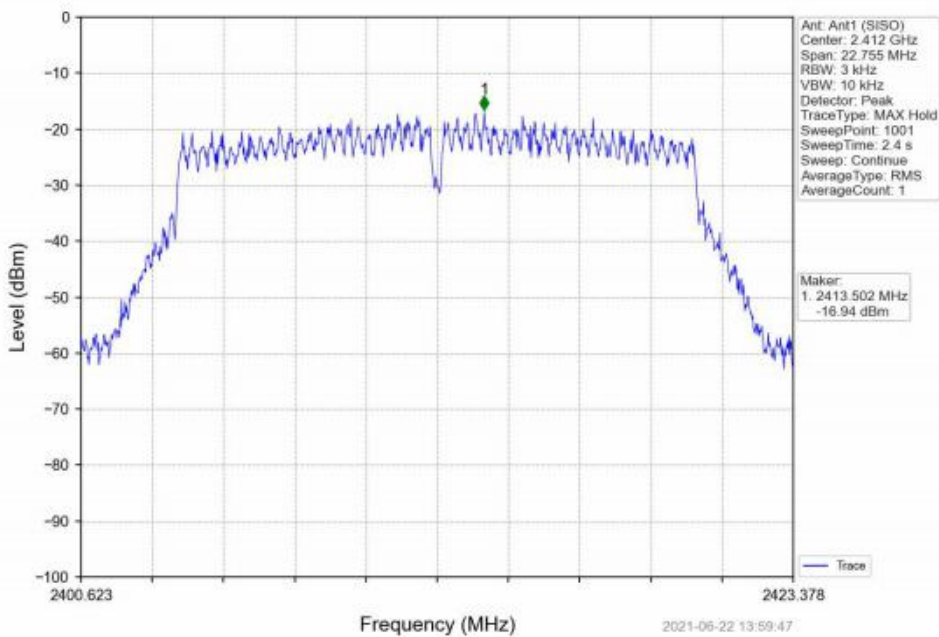
4.1.2 Test Graph



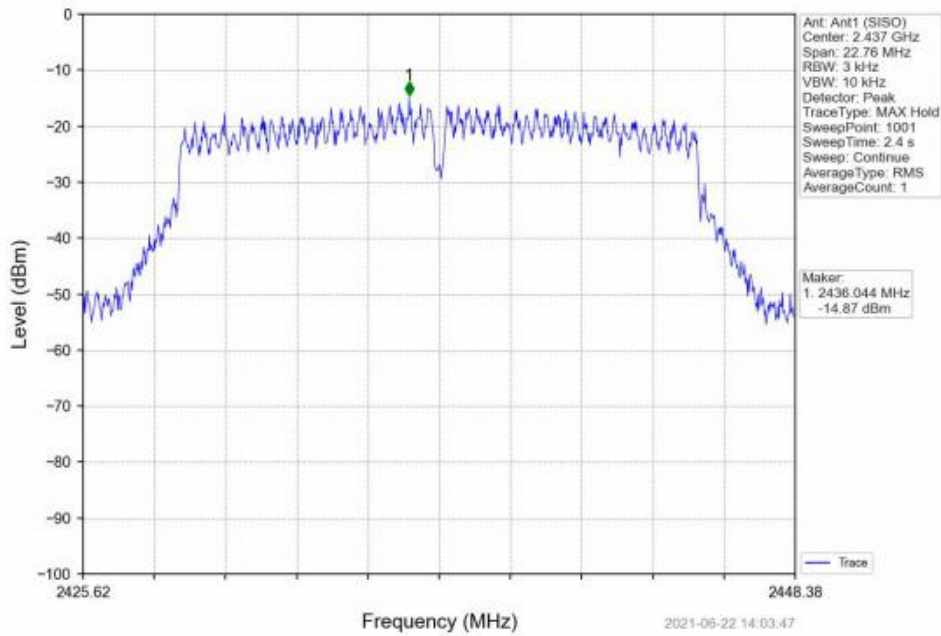
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



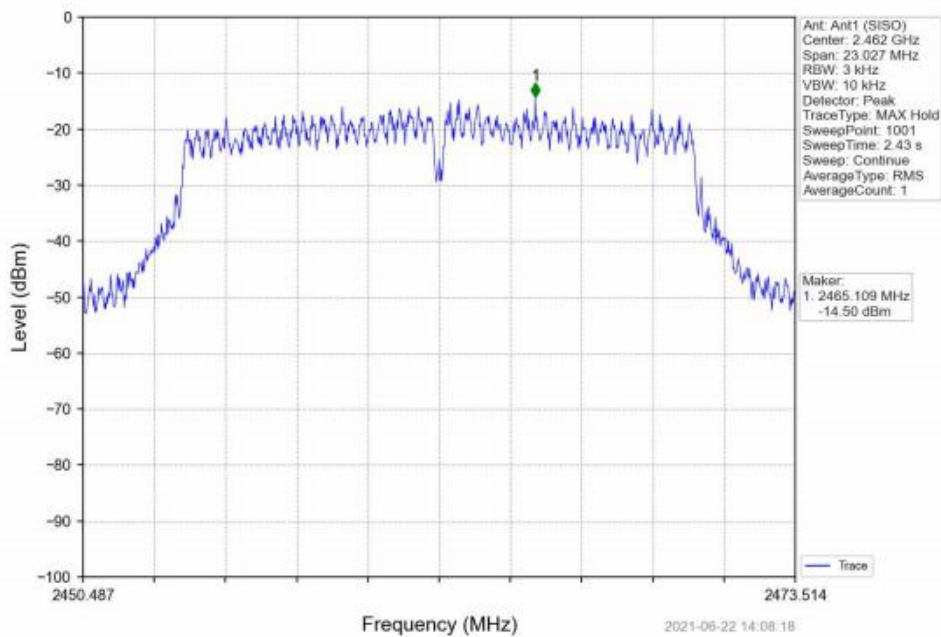
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



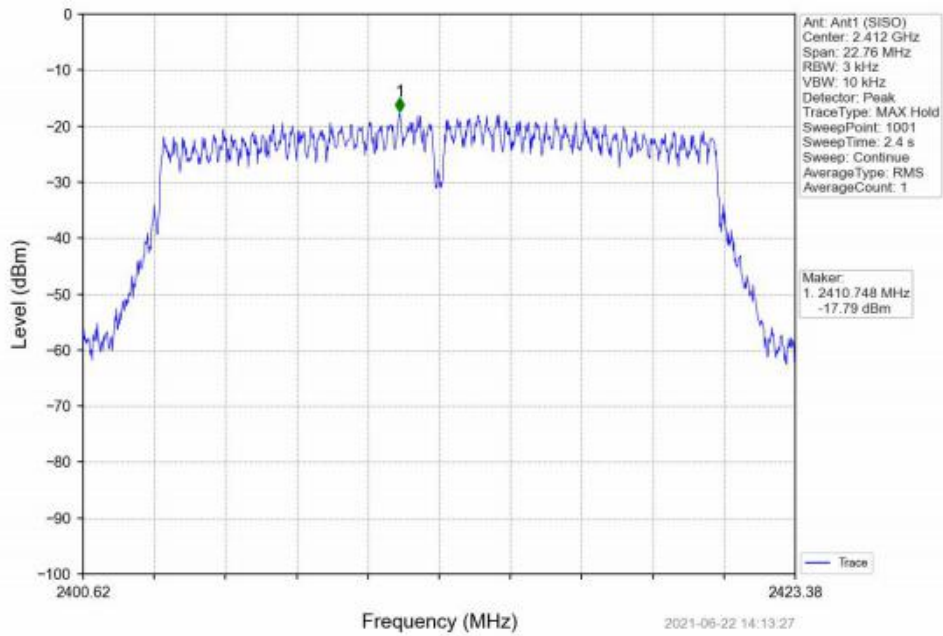
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



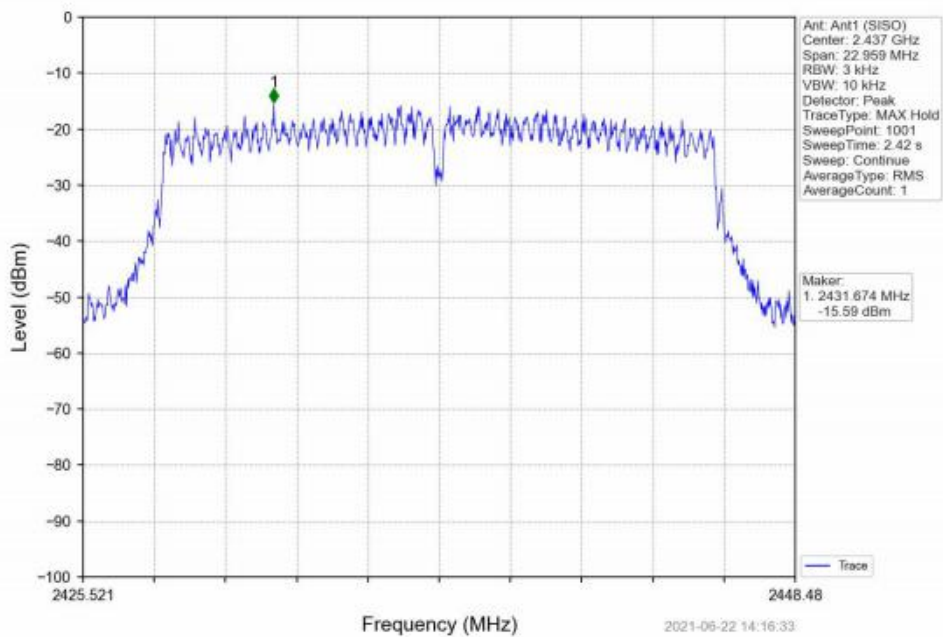
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

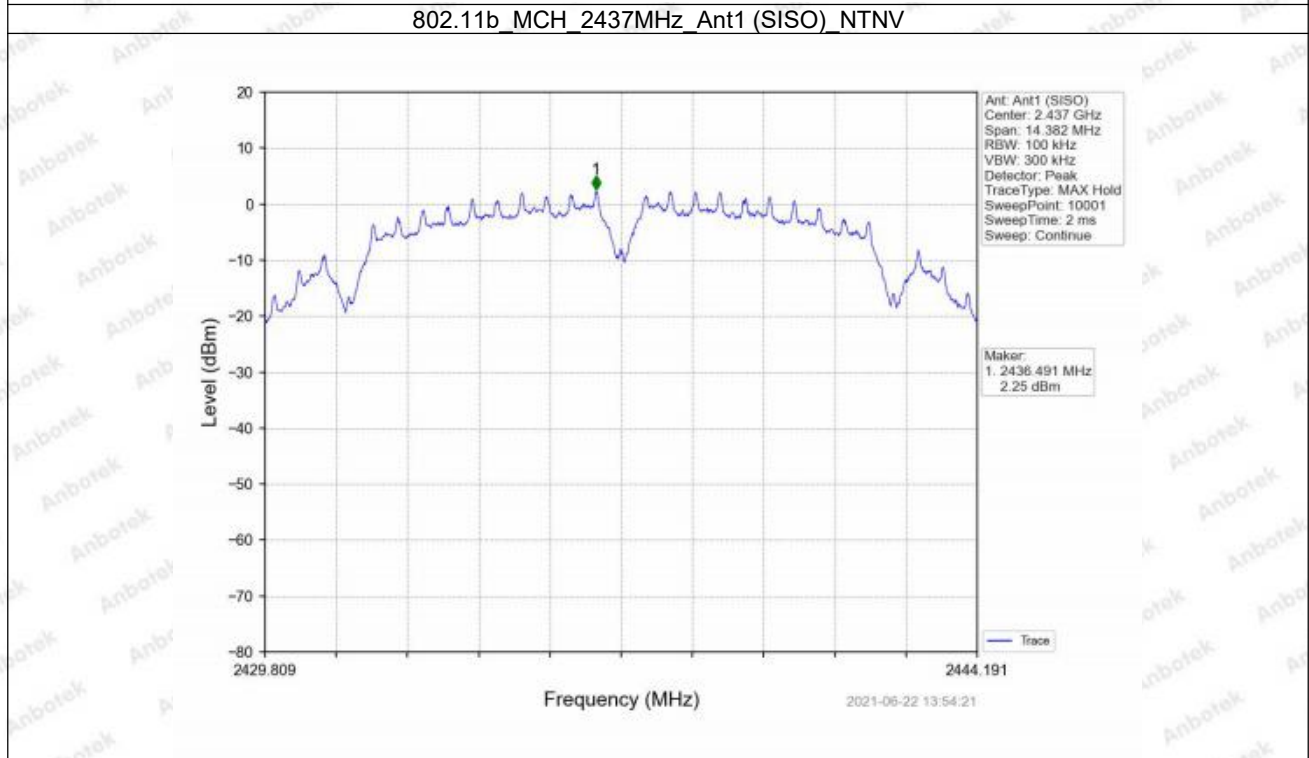
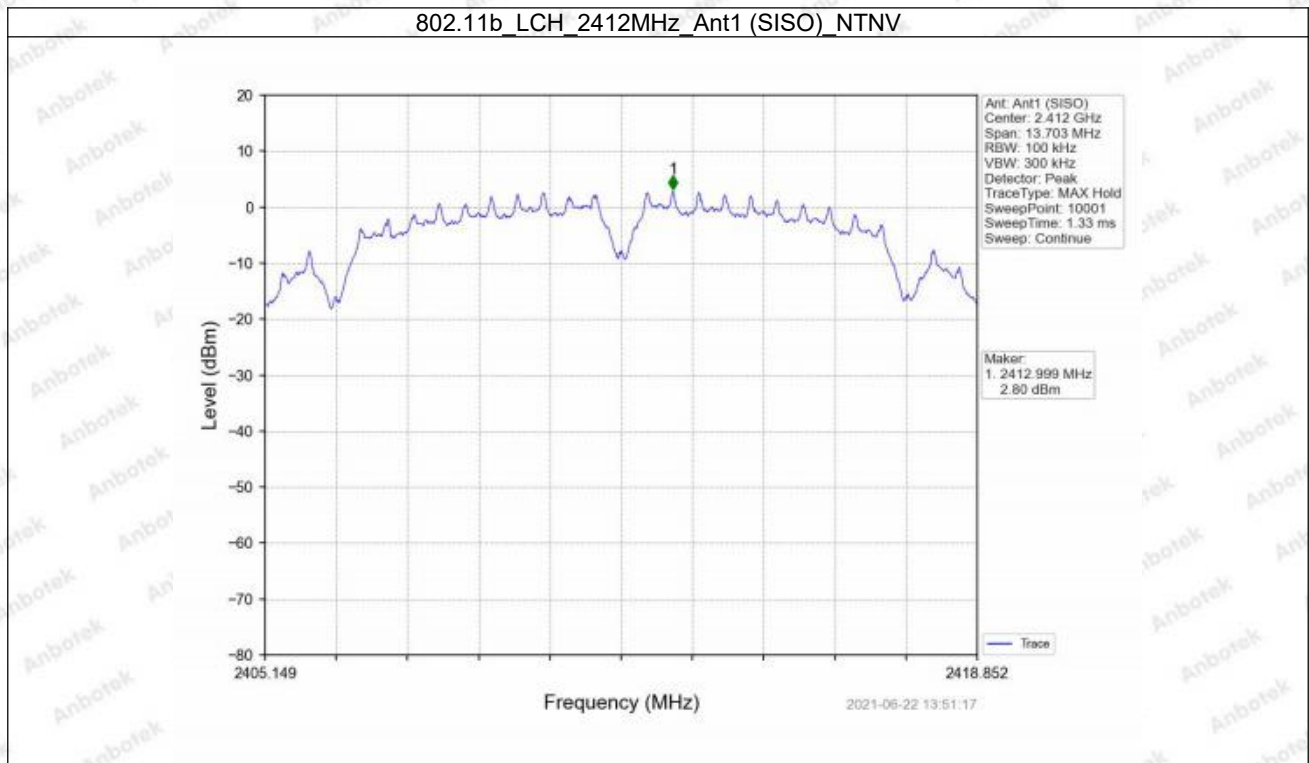
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	2.80	/	/
		2437	/	/	1	2.25	/	/
		2462	/	/	1	1.72	/	/
802.11g	SISO	2412	/	/	1	-2.57	/	/
		2437	/	/	1	-0.85	/	/
		2462	/	/	1	-0.64	/	/
802.11n (HT20)	SISO	2412	/	/	1	-2.53	/	/
		2437	/	/	1	-0.61	/	/
		2462	/	/	1	-0.95	/	/

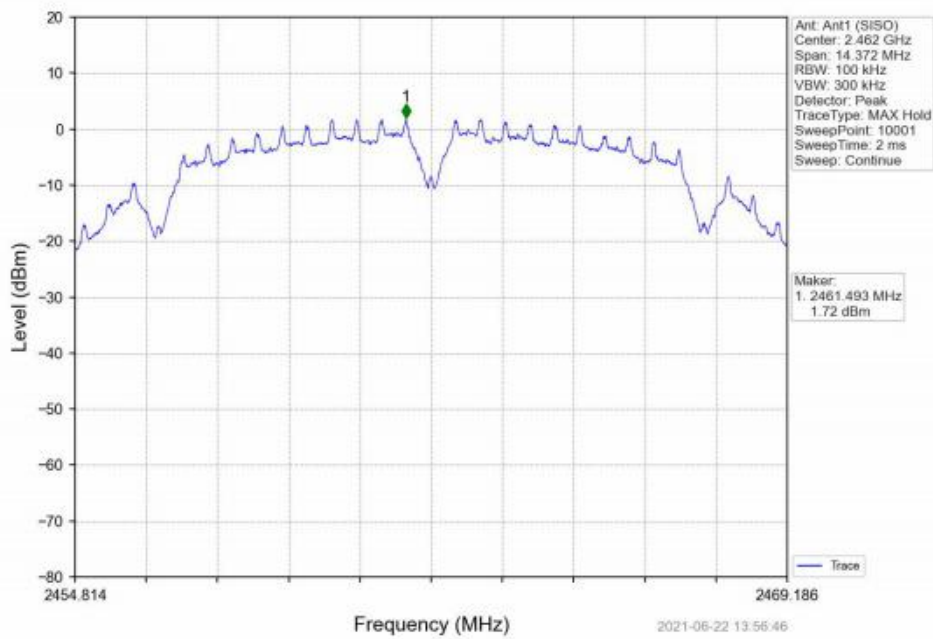
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

Note2: Only for Report Use

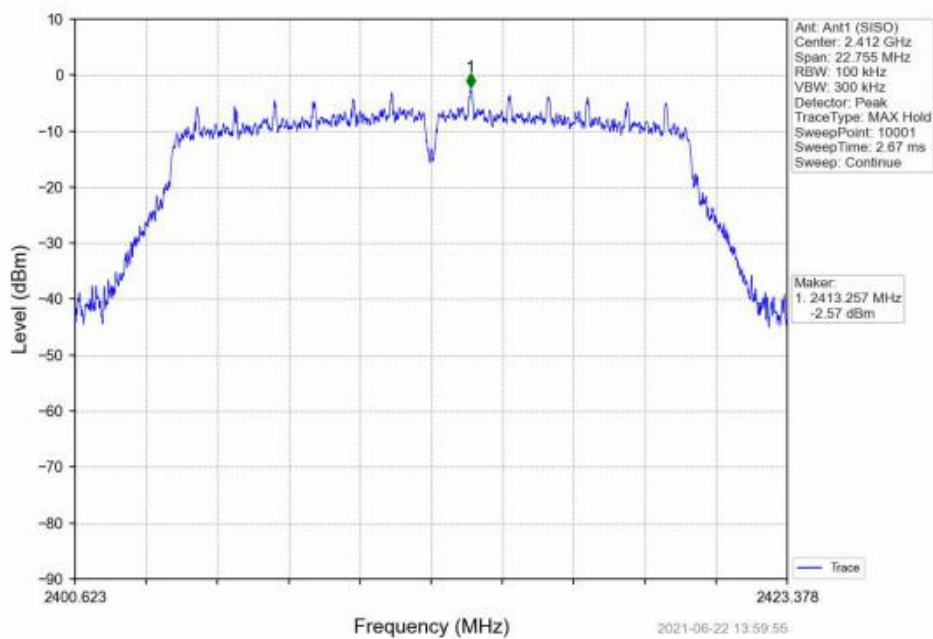
5.1.2 Test Graph



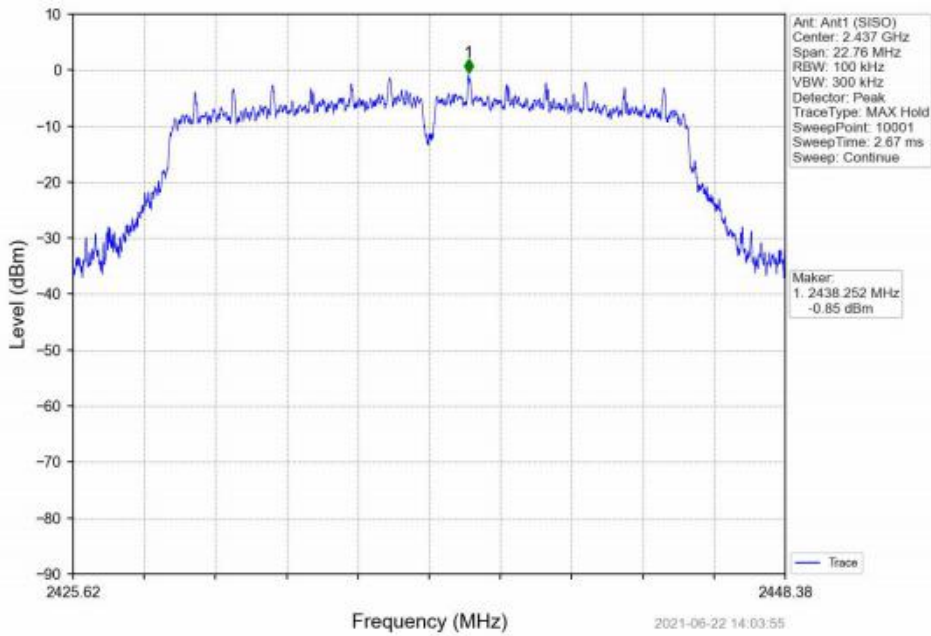
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



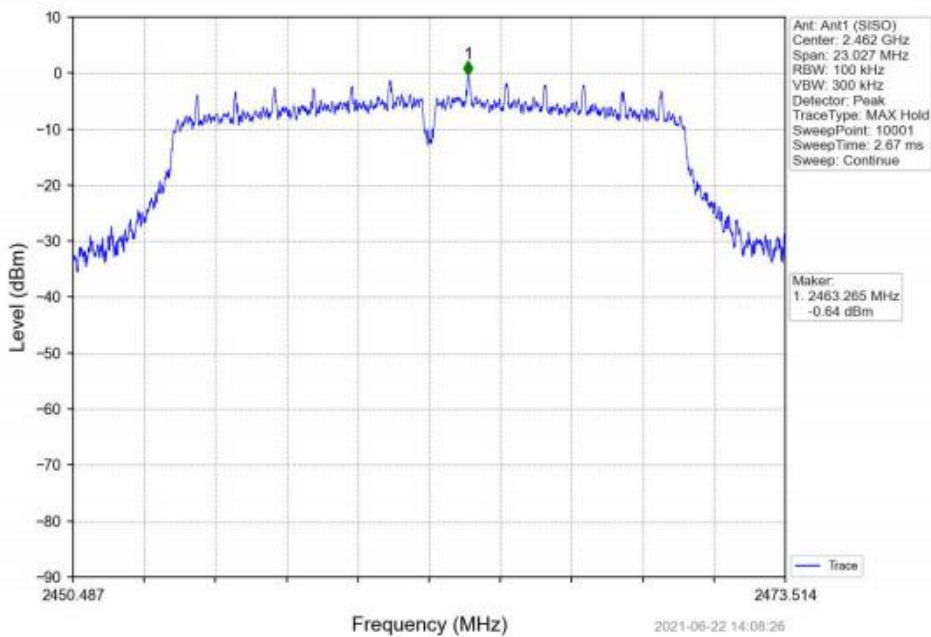
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



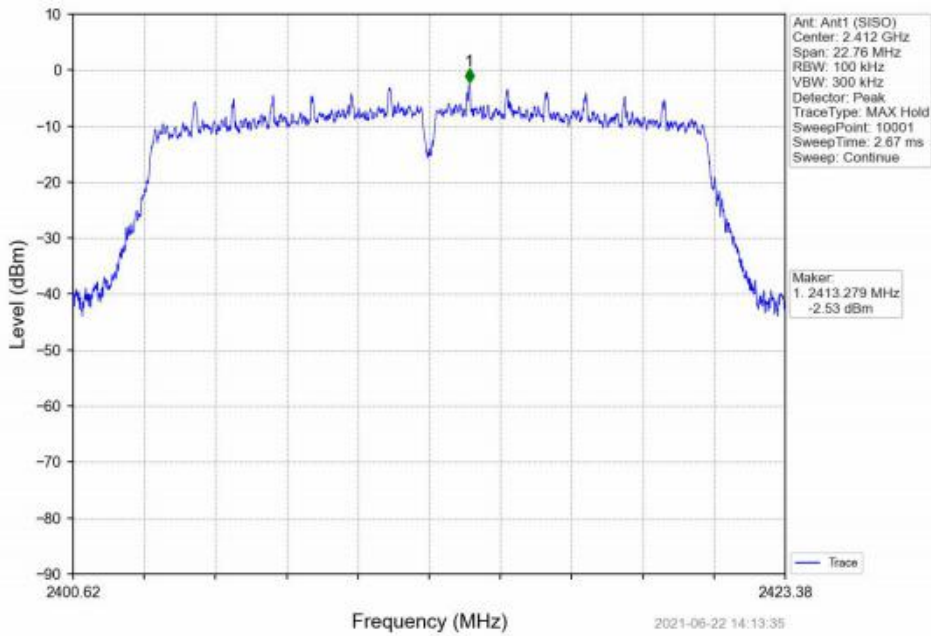
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



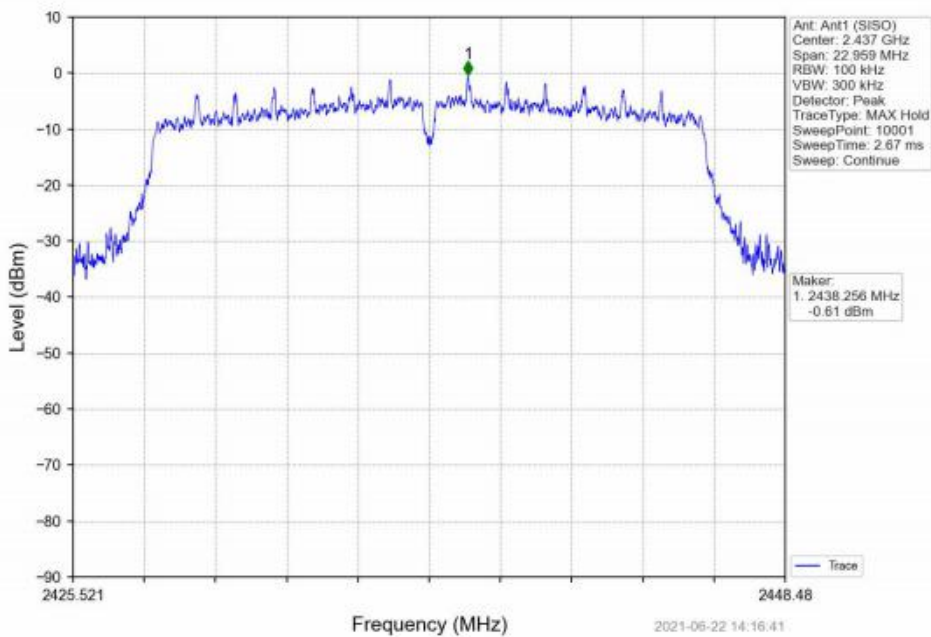
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



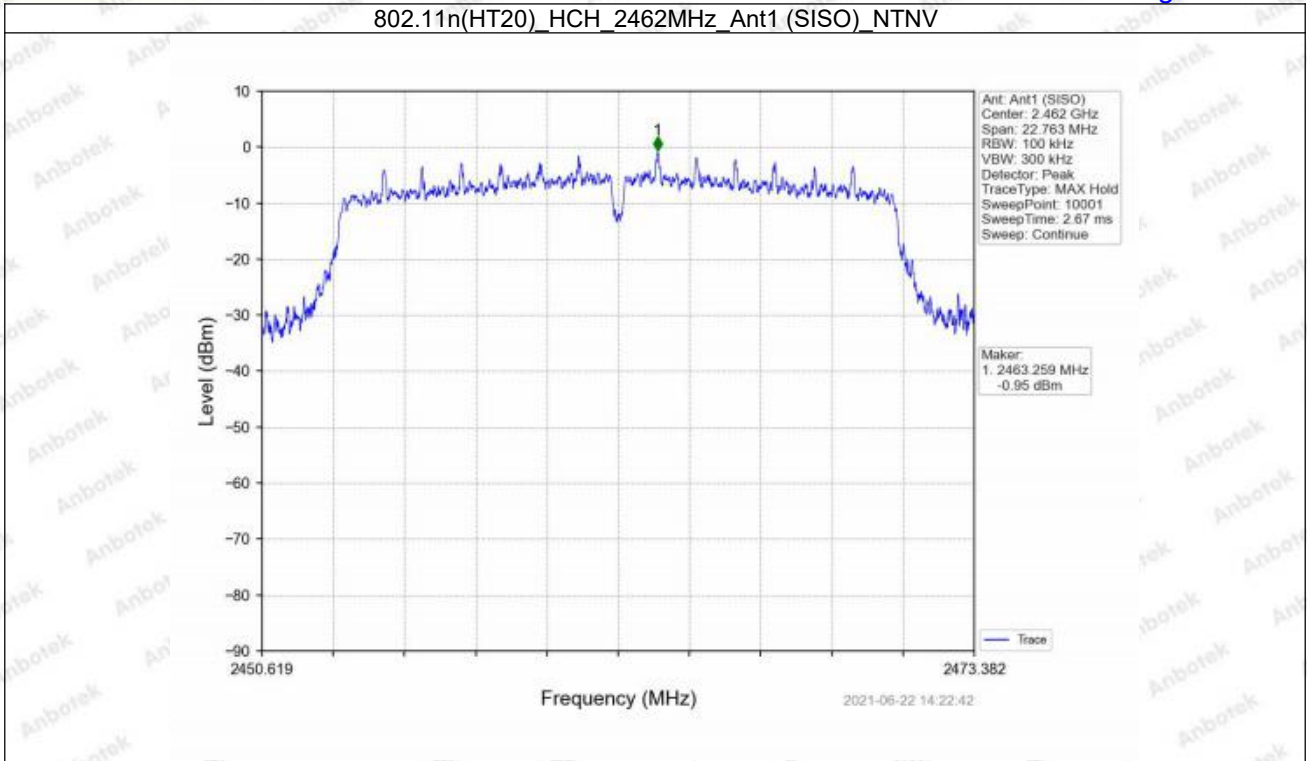
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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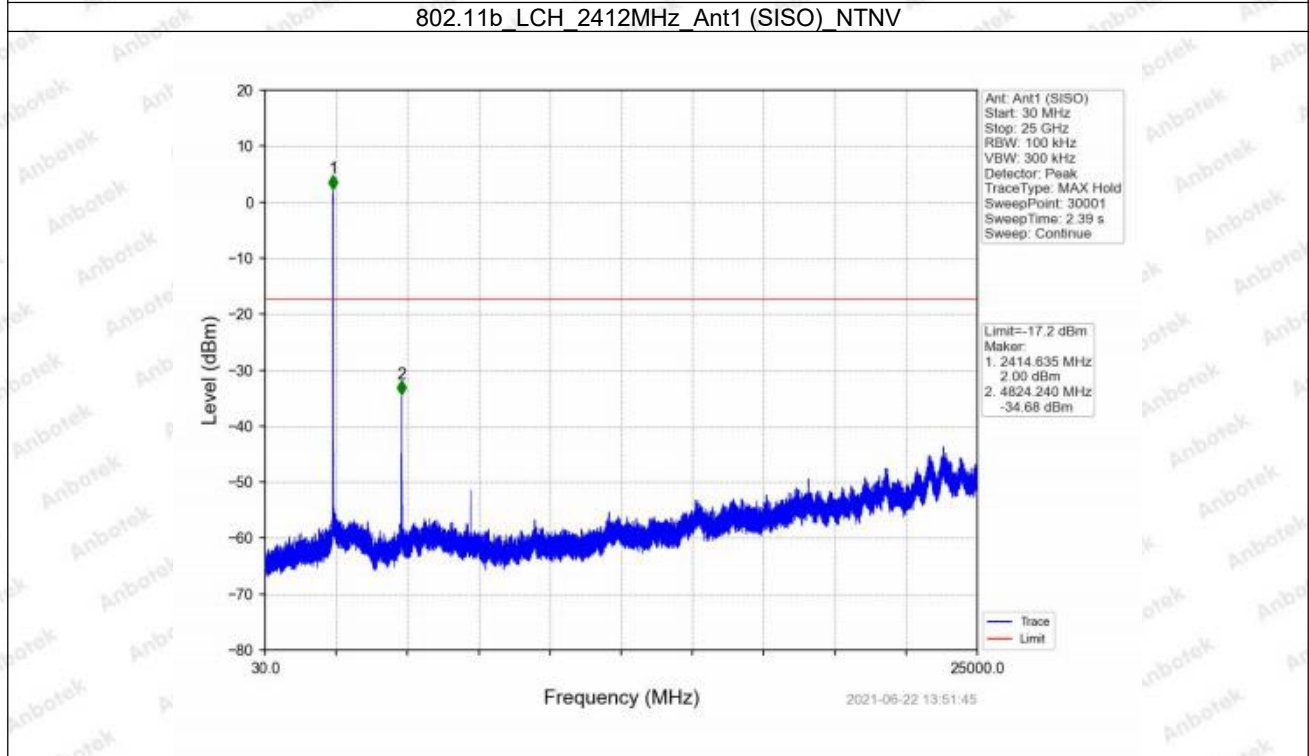
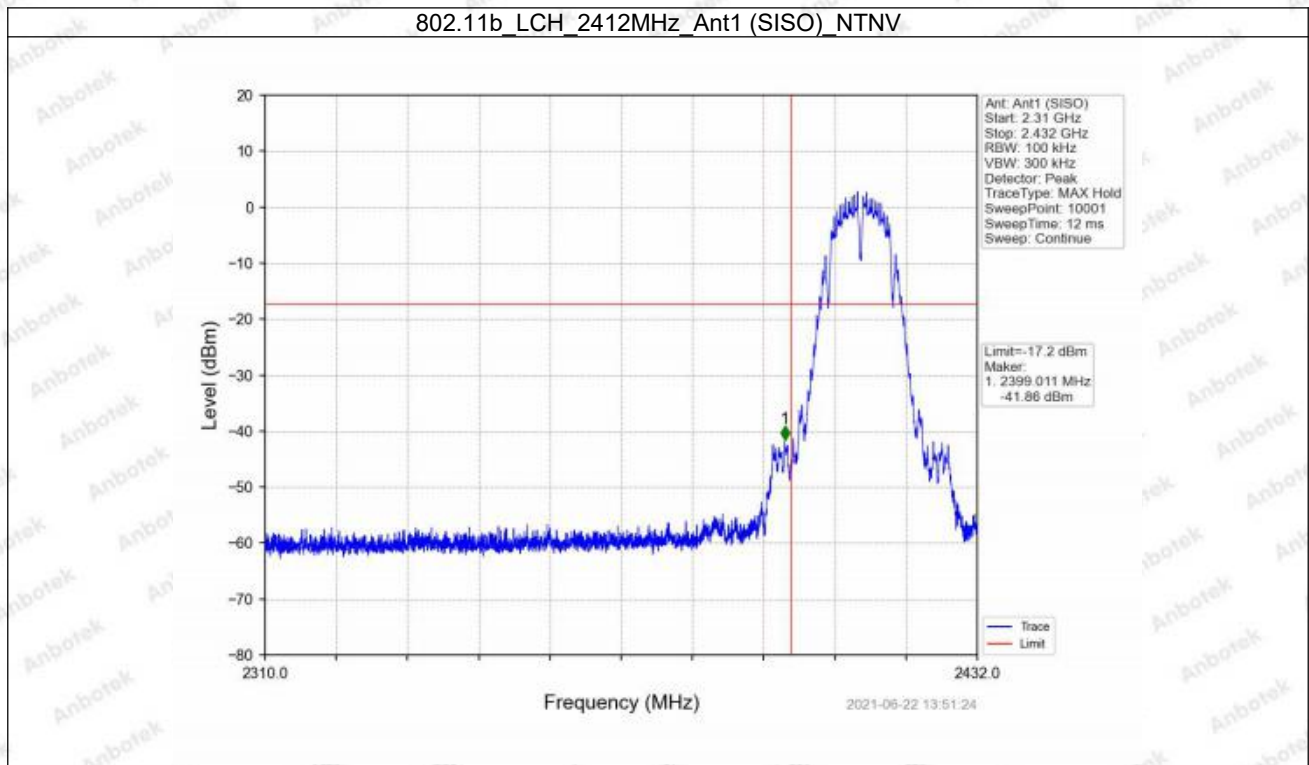
5.2 CSE

5.2.1 Test Result

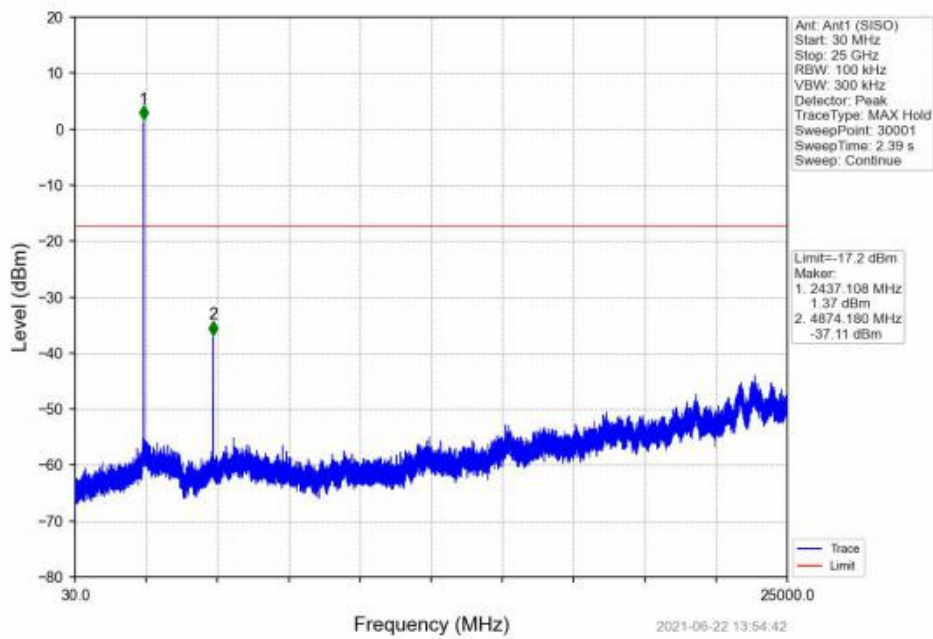
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
802.11g	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Note2

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.
 Note2: Only for Report Use

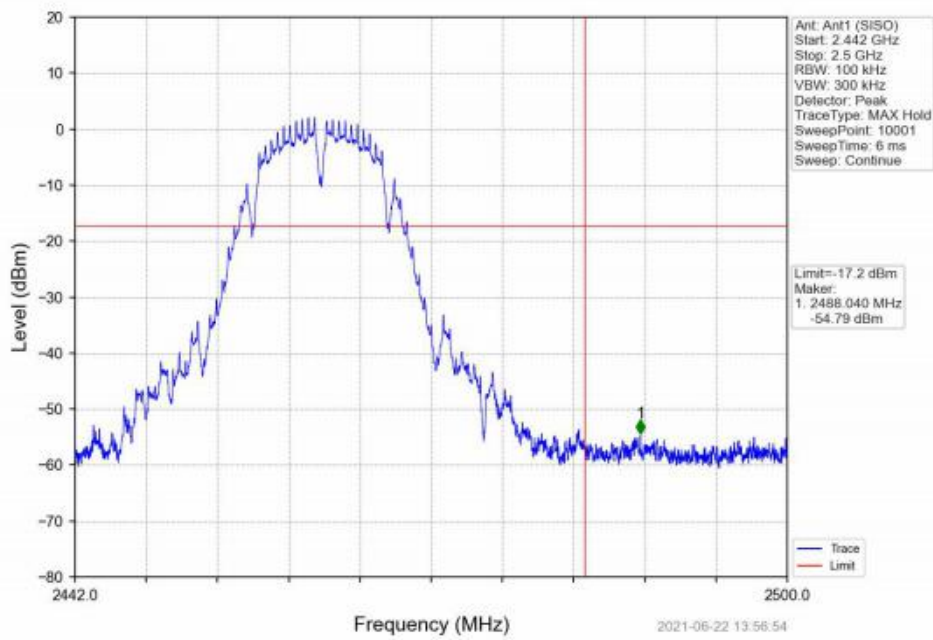
5.2.2 Test Graph



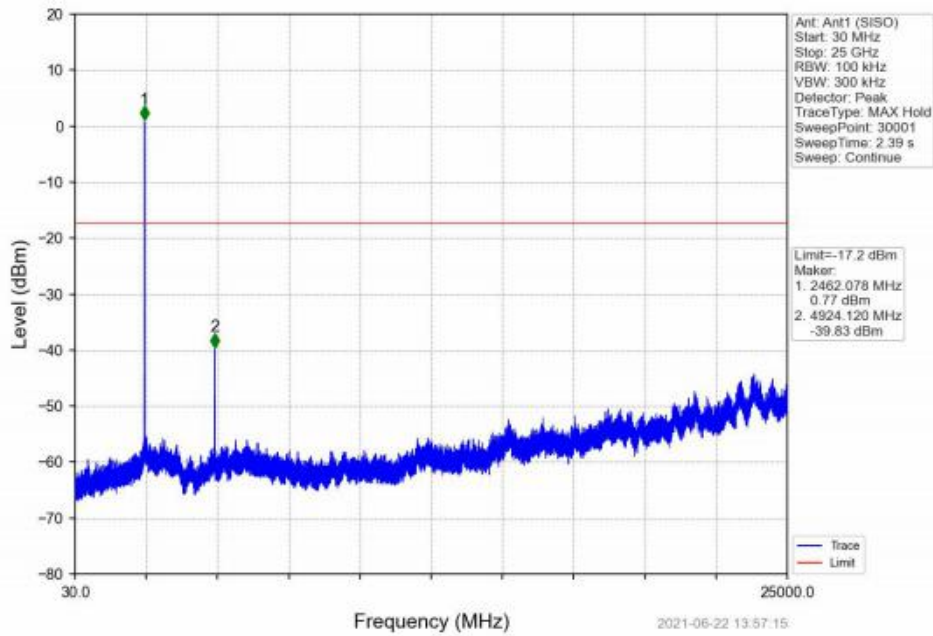
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



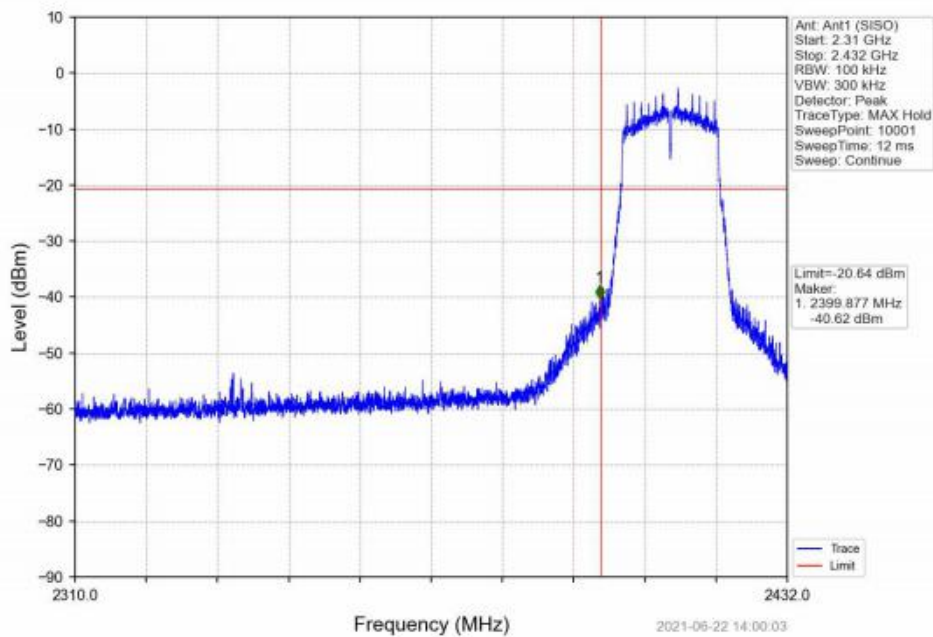
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



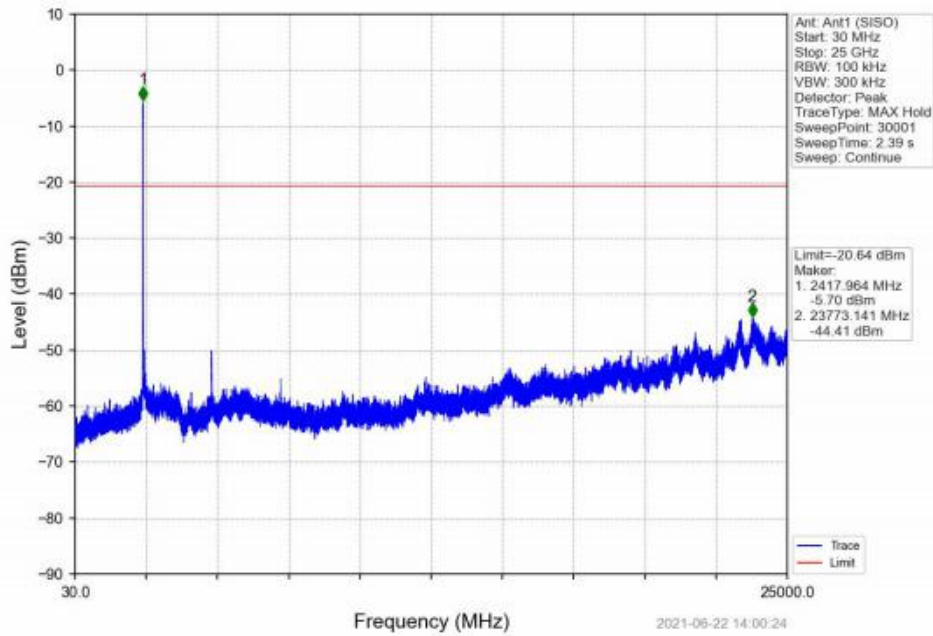
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



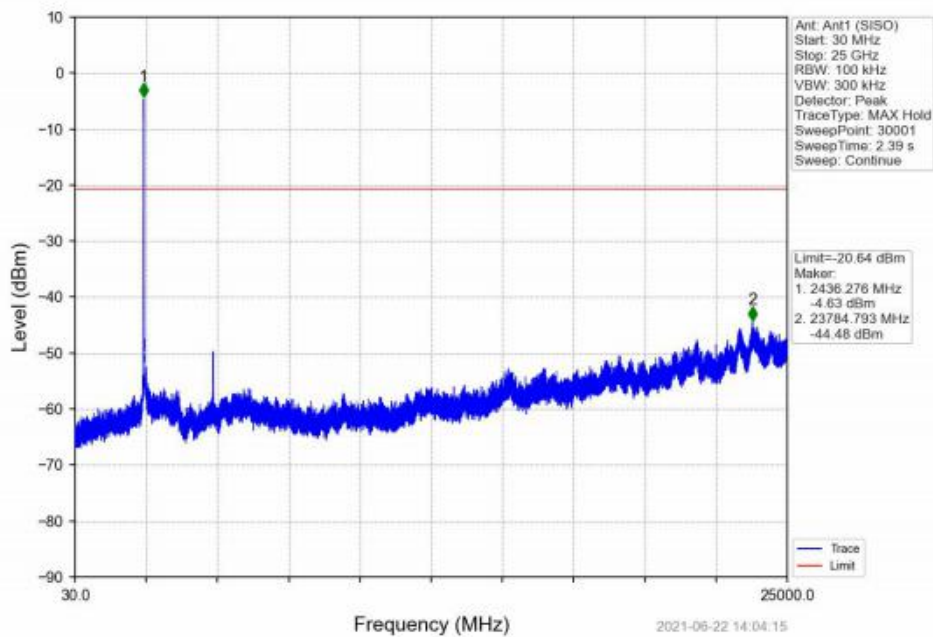
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



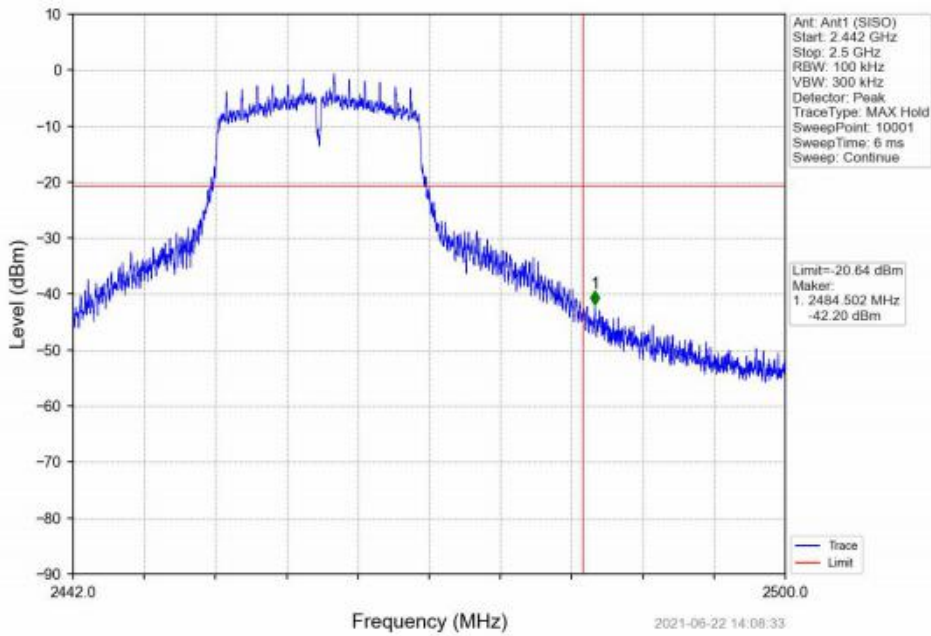
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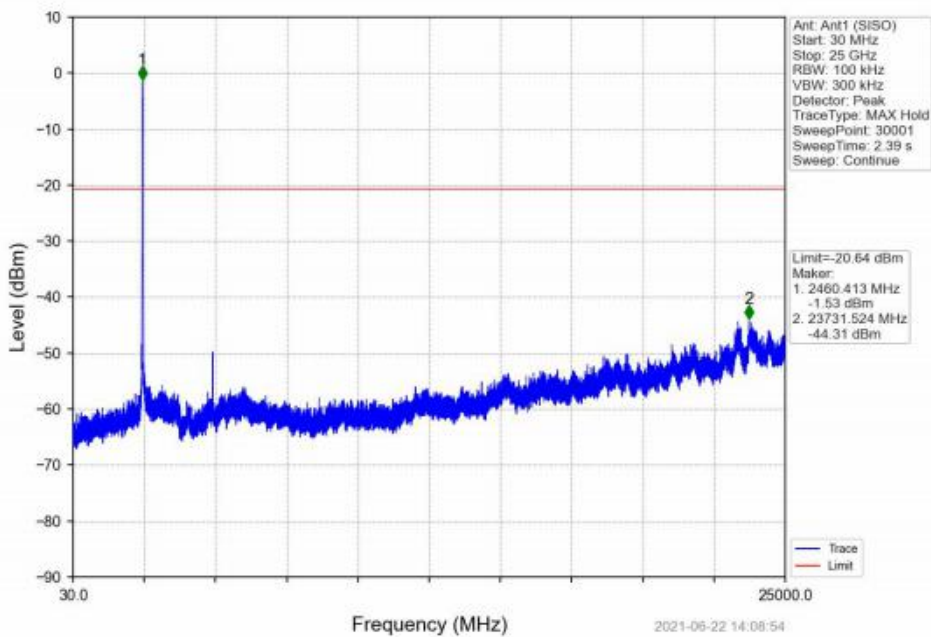
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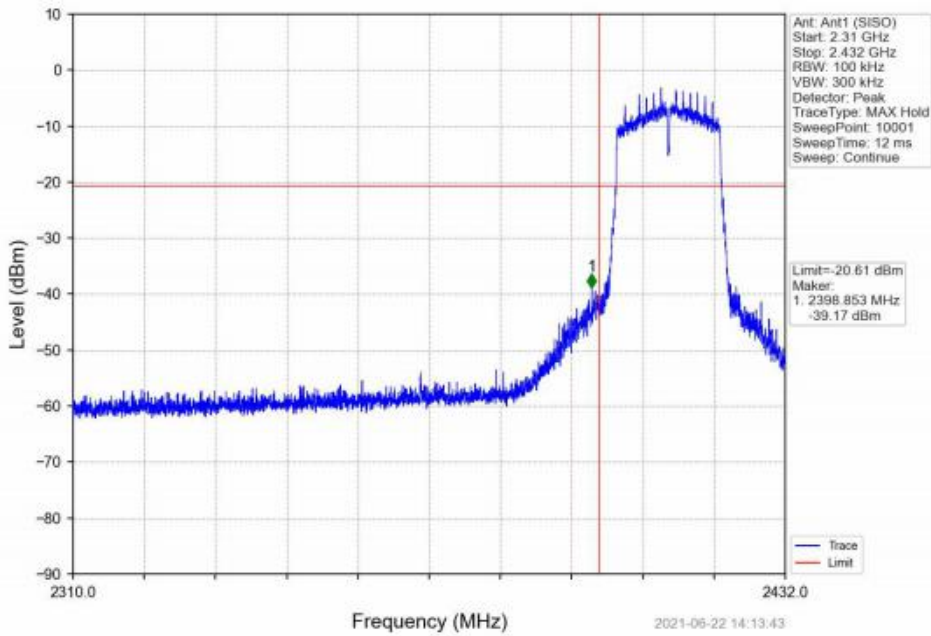
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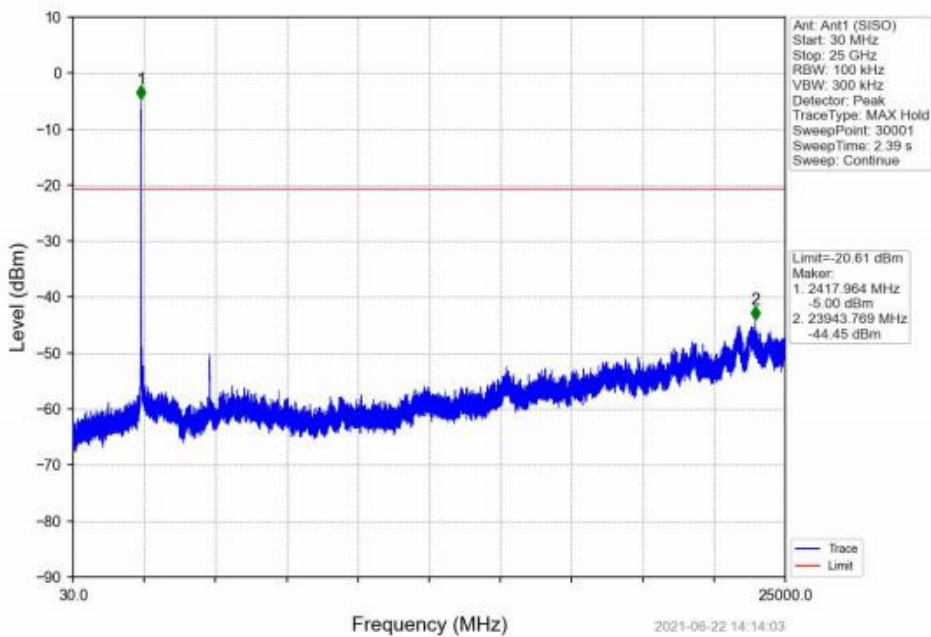
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



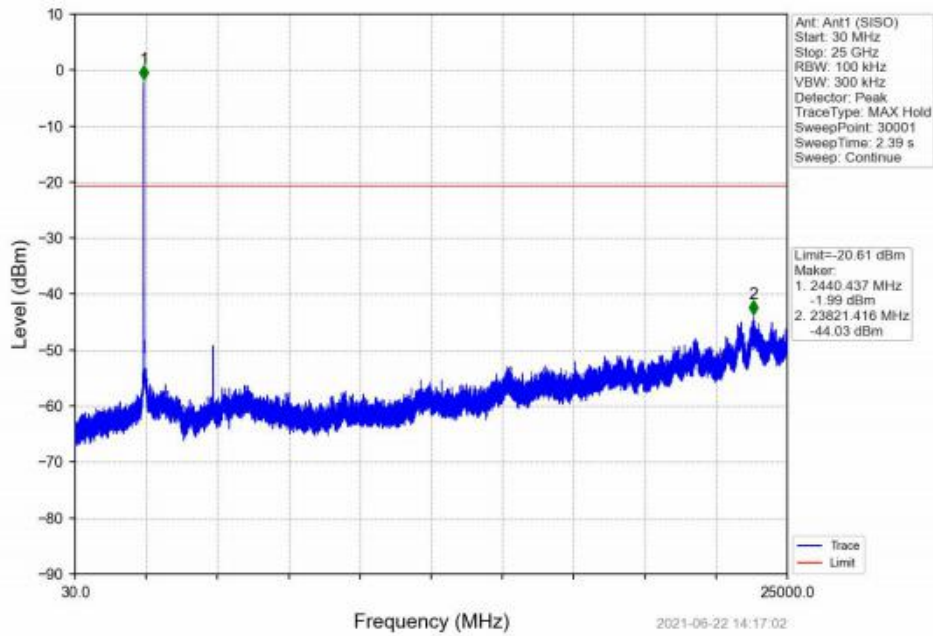
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

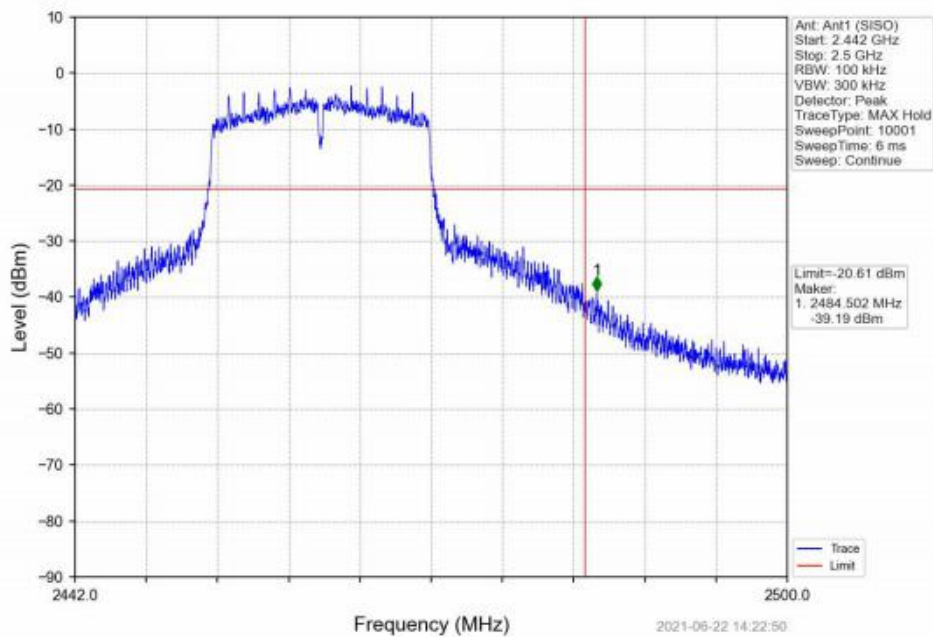
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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400-003-0500
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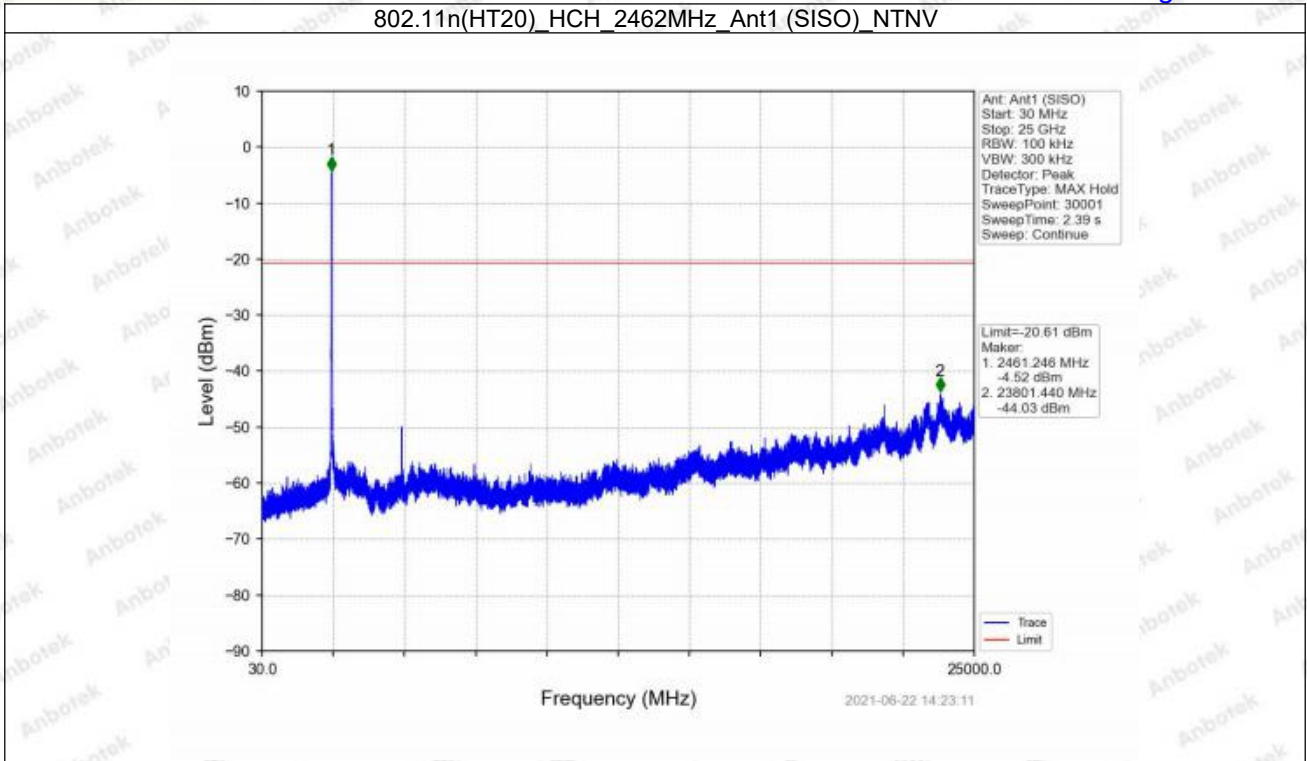
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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