

Appendix Test Data

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

1. Duty Cycle

1.1 Ant1

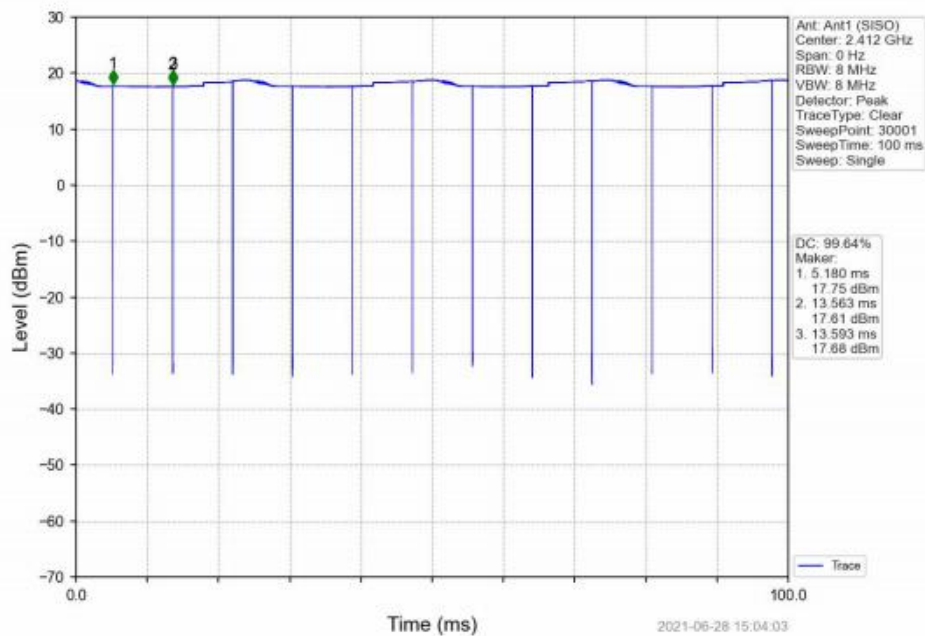
1.1.1 Test Result

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

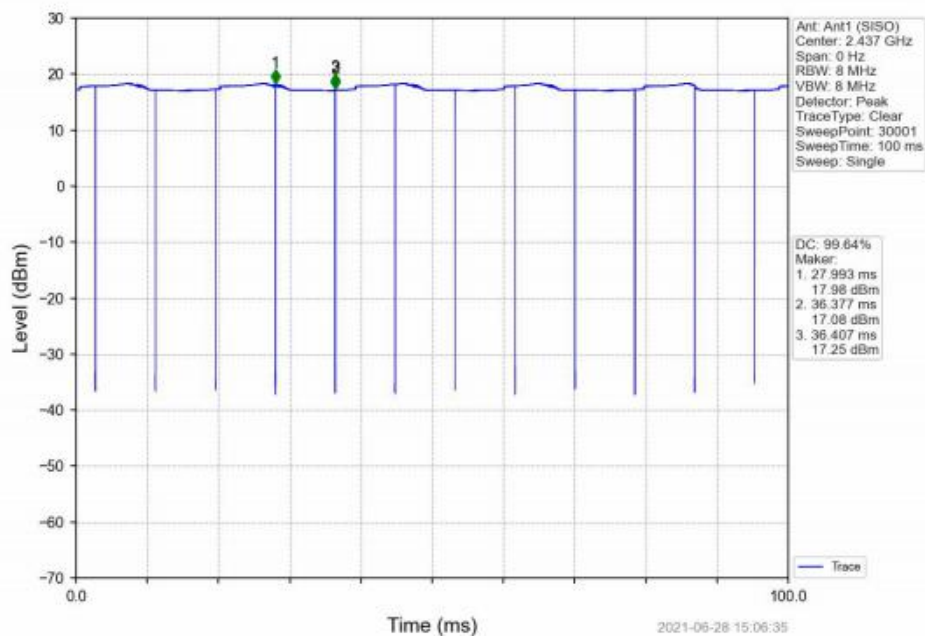
Note1: Only for Report Use

1.1.2 Test Graph

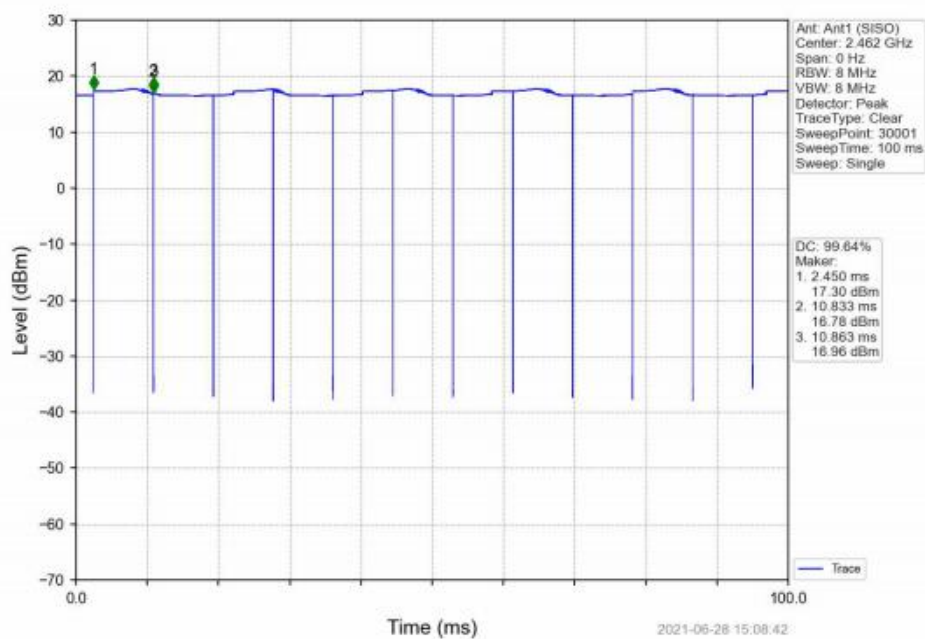
802.11b LCH 2412MHz_Ant1 (SISO) NTN



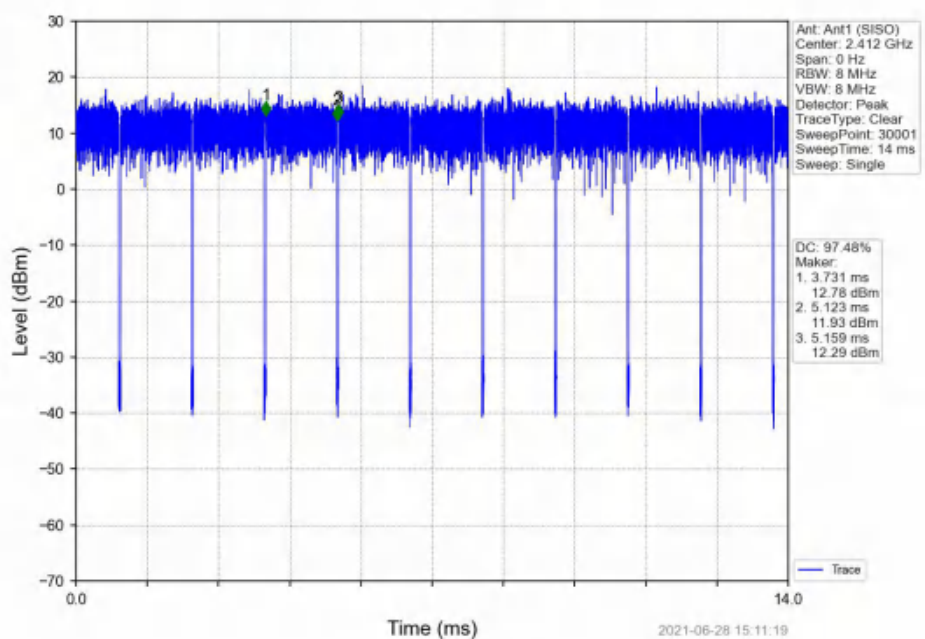
802.11b MCH 2437MHz_Ant1 (SISO) NTN



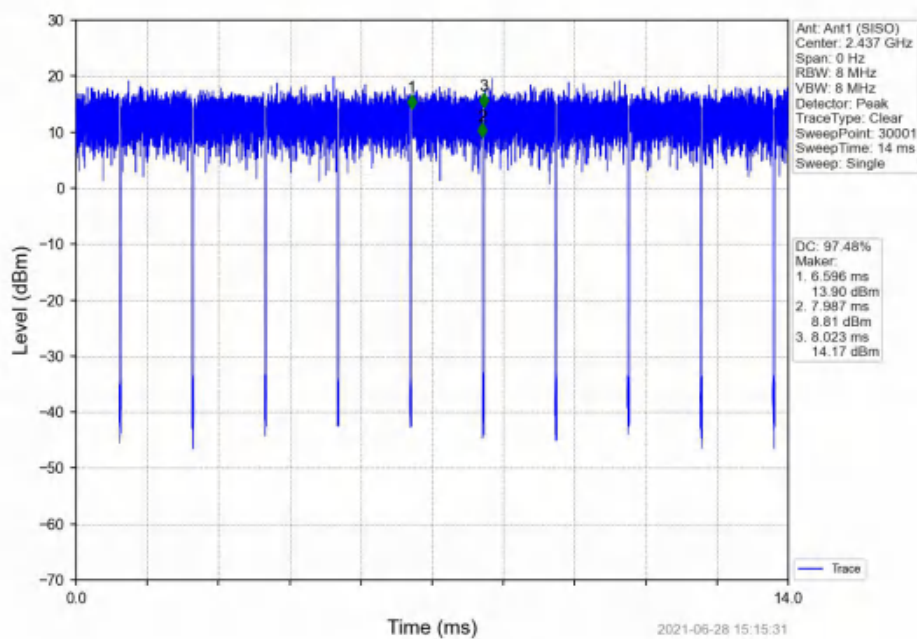
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



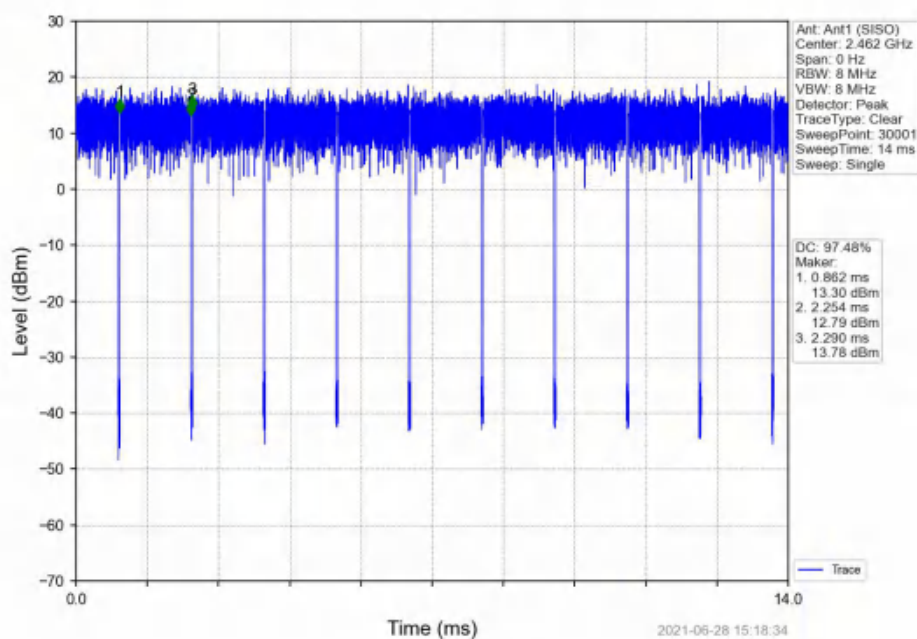
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



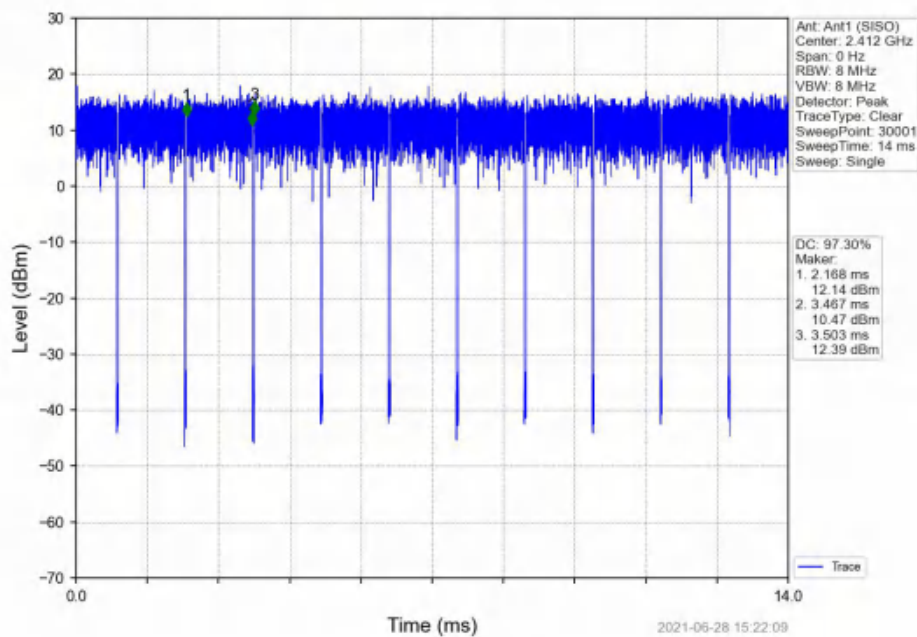
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



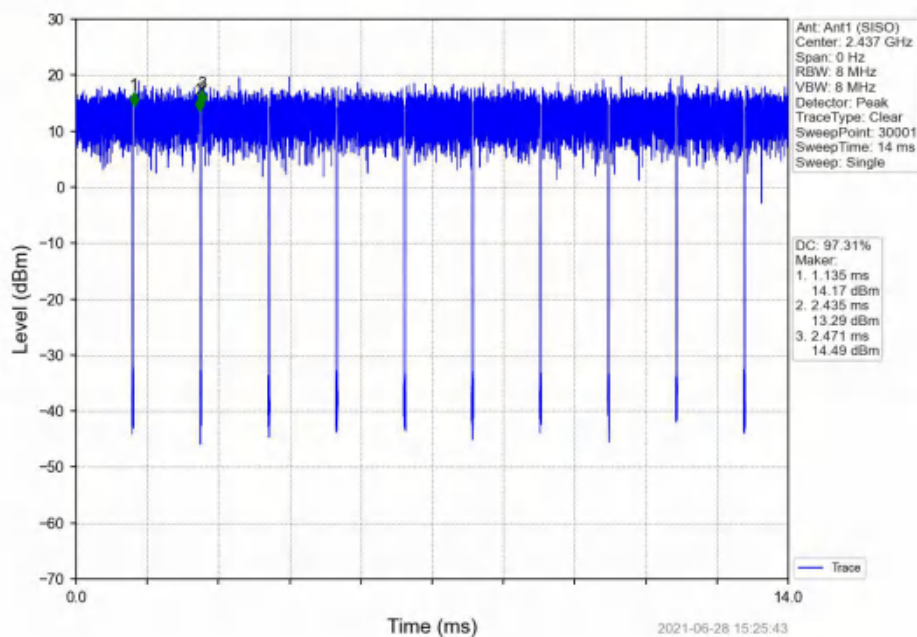
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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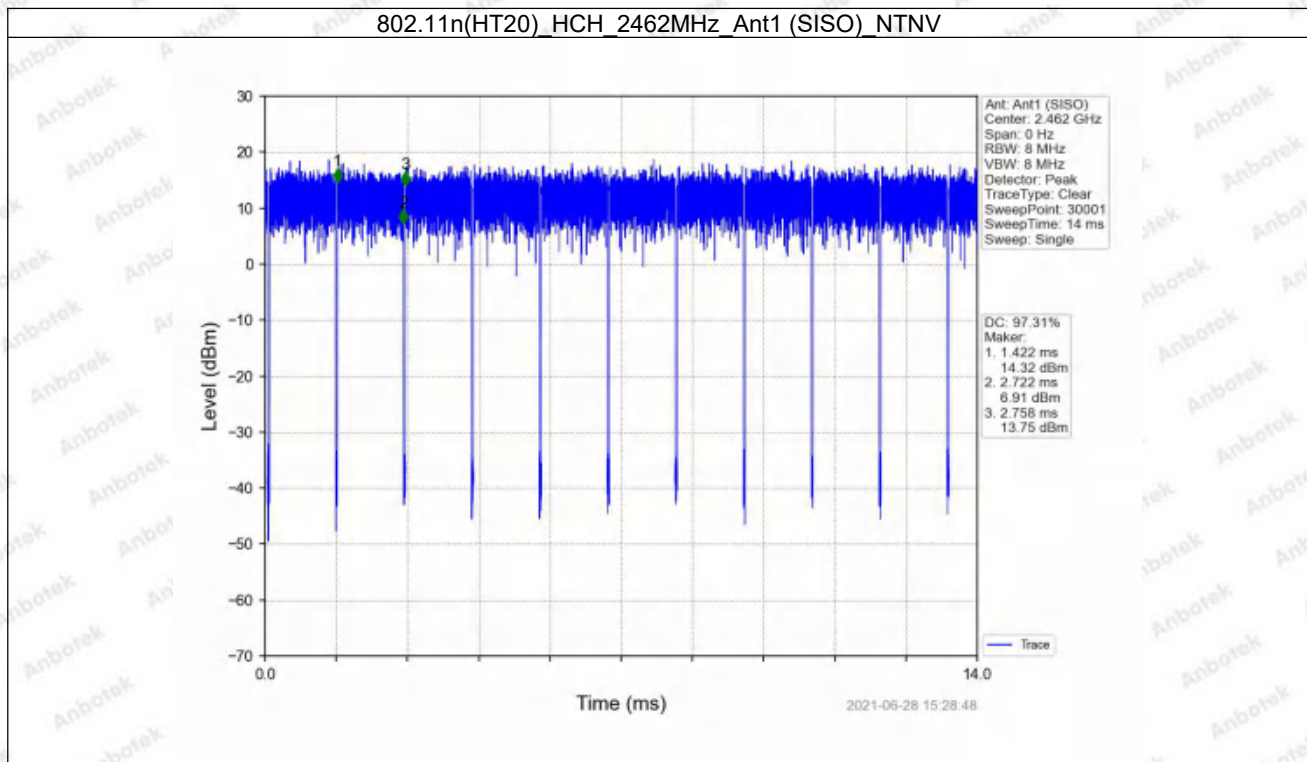
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2. Bandwidth

2.1 OBW

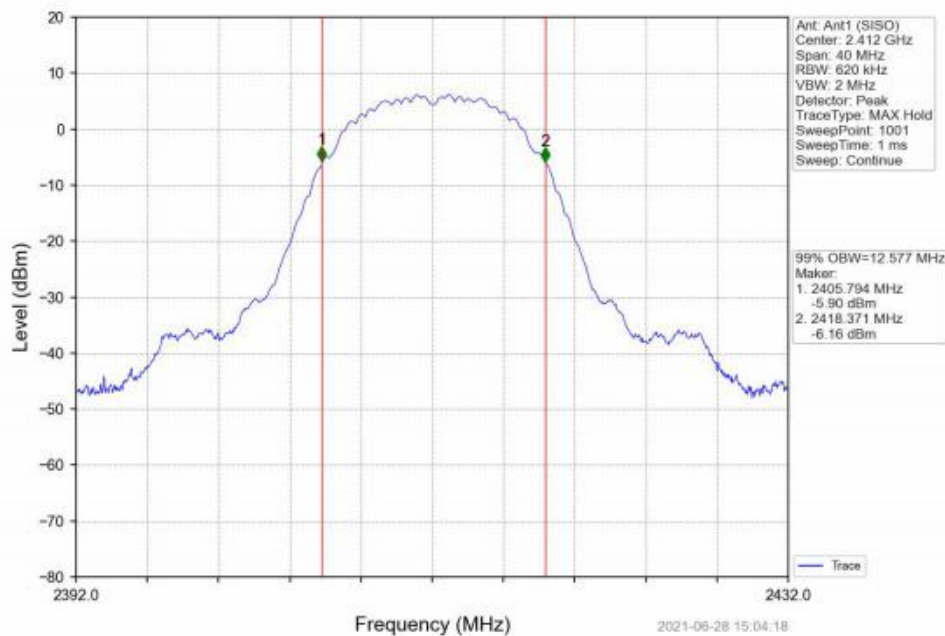
2.1.1 Test Result

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

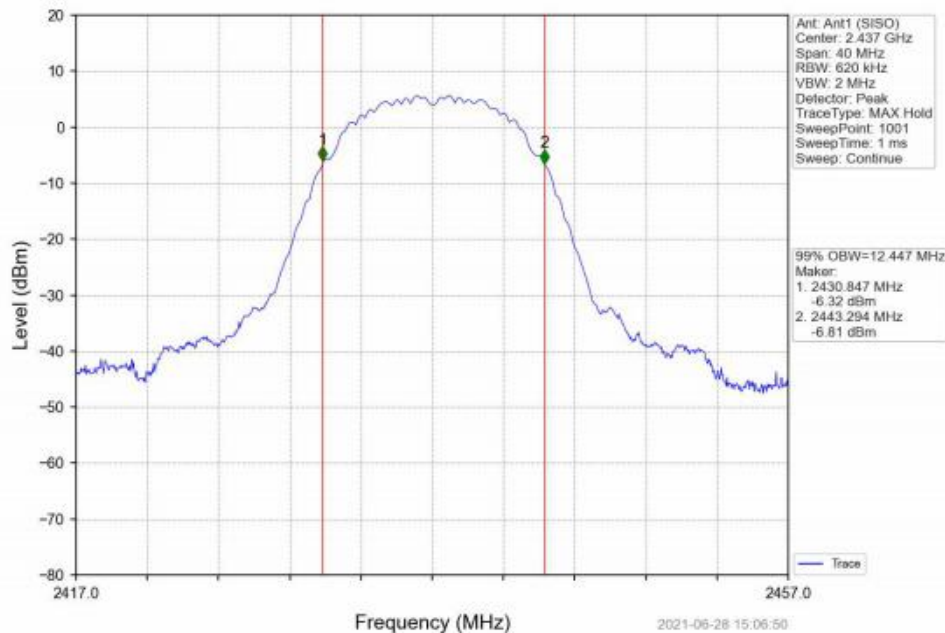
Note1: Only for Report Use

2.1.2 Test Graph

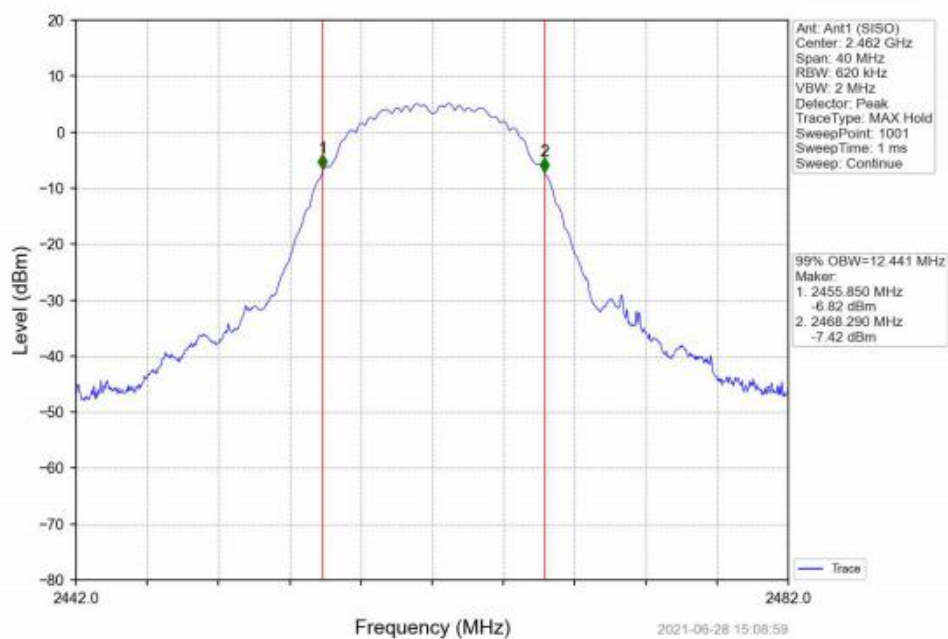
802.11b LCH 2412MHz_Ant1 (SISO) NTN



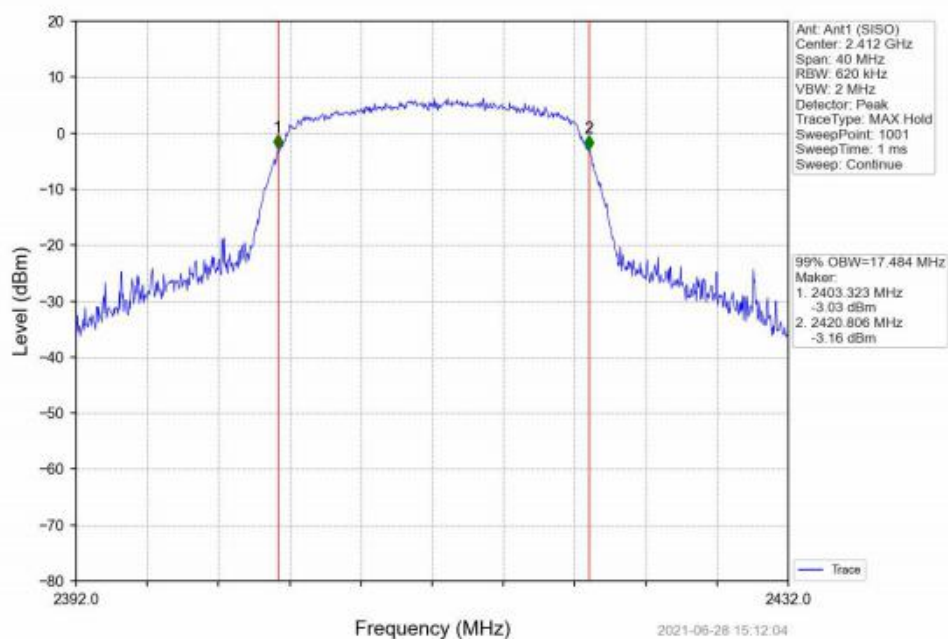
802.11b MCH 2437MHz_Ant1 (SISO) NTN



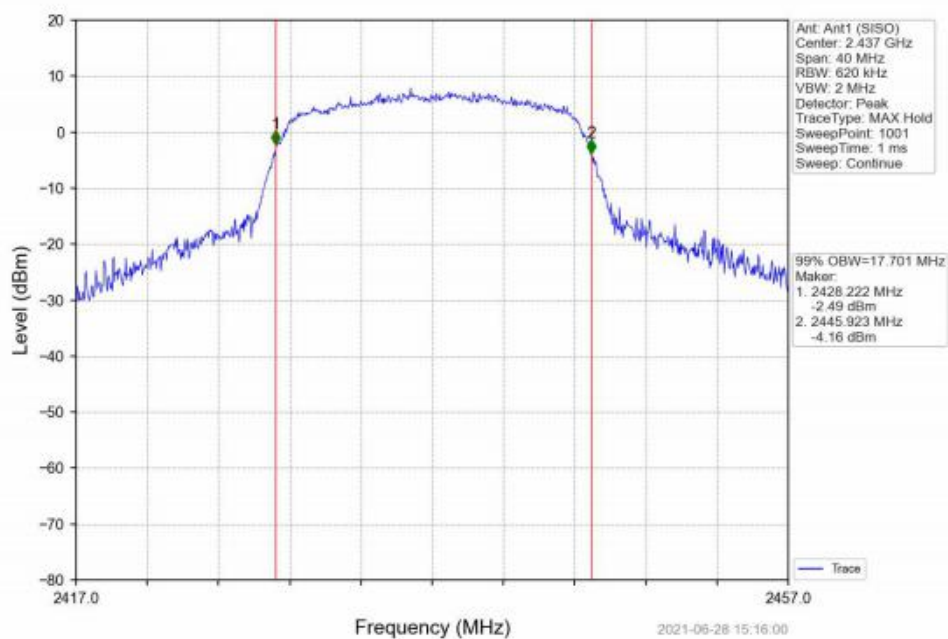
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



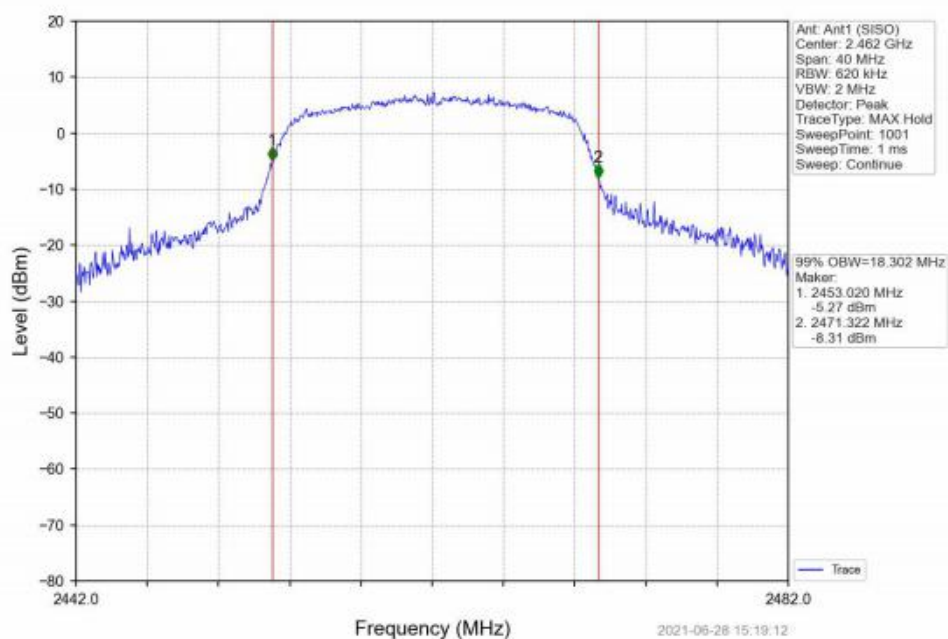
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



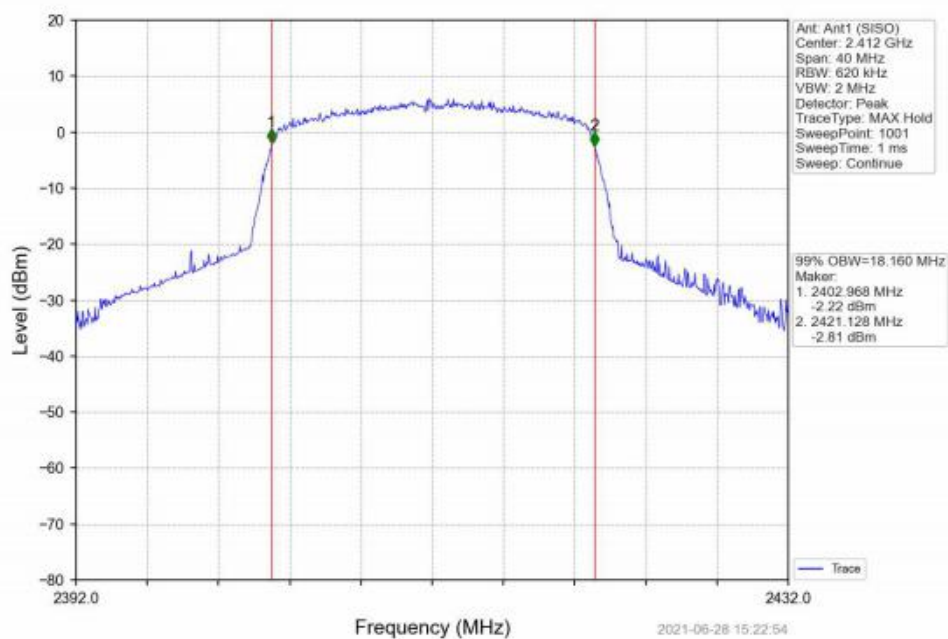
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



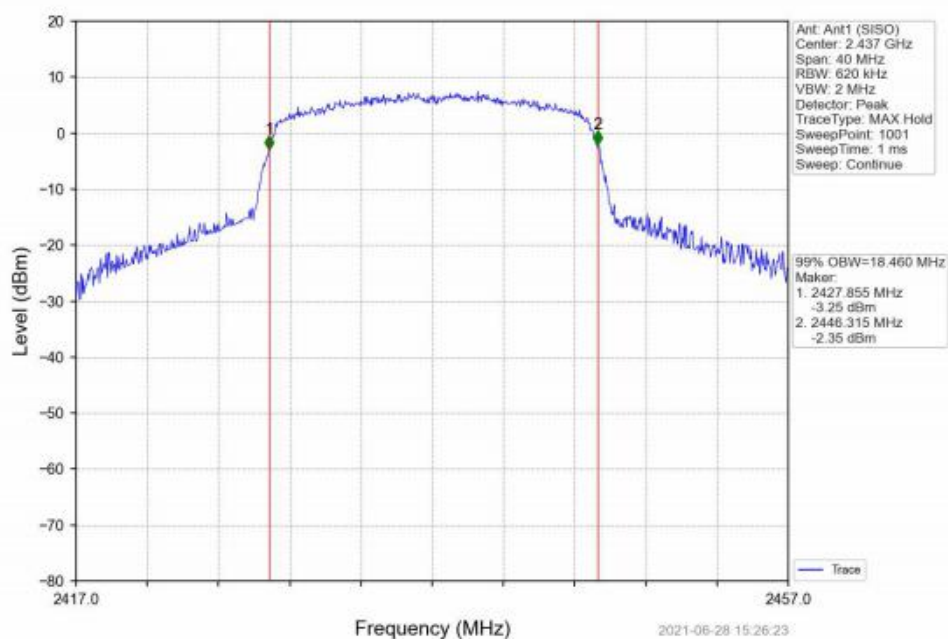
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

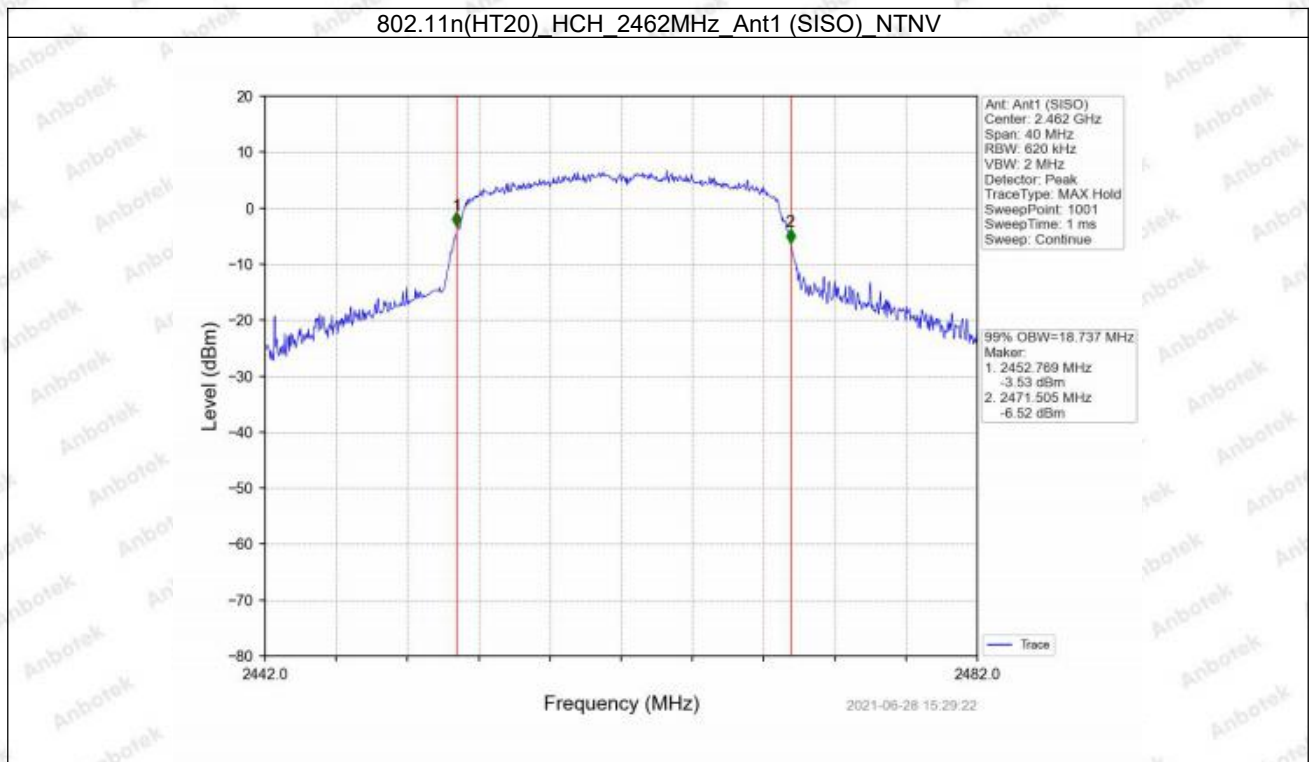


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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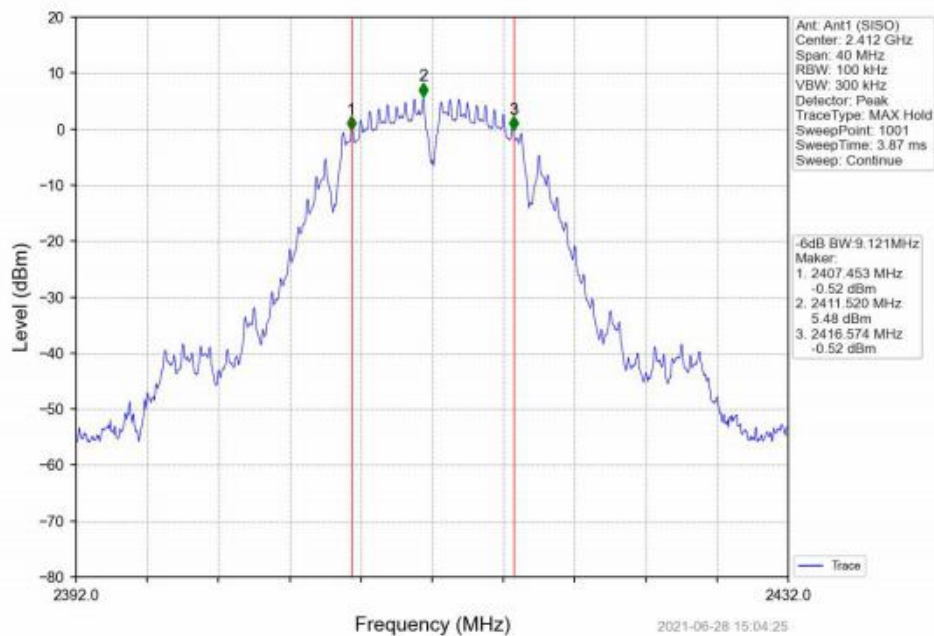
2.2 6dB BW

2.2.1 Test Result

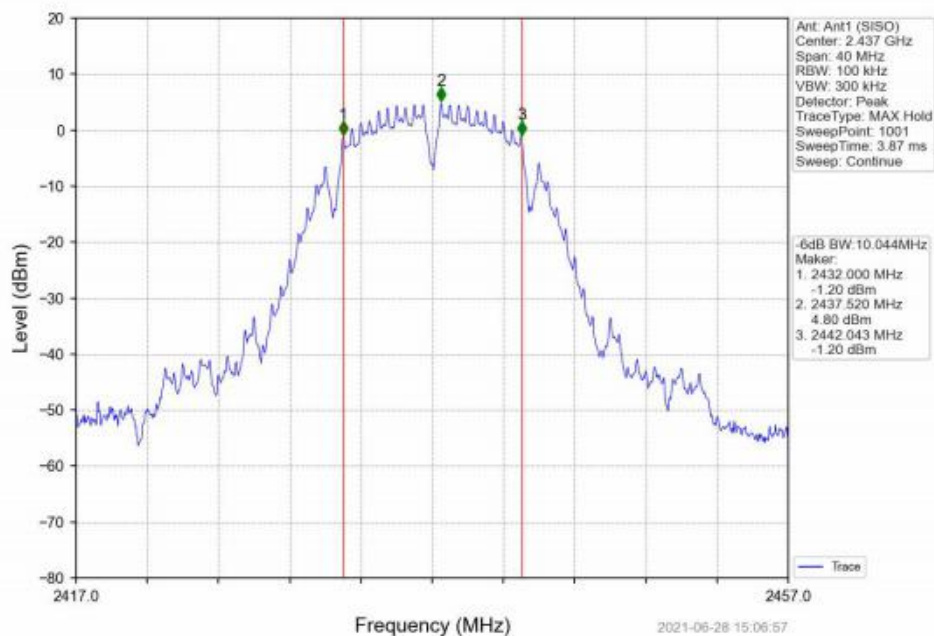
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	9.12	≥ 0.5	Pass
		2437	/	/	1	10.04	≥ 0.5	Pass
		2462	/	/	1	9.14	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	15.34	≥ 0.5	Pass
		2437	/	/	1	15.17	≥ 0.5	Pass
		2462	/	/	1	15.17	≥ 0.5	Pass
802.11n (HT20)	SISO	2412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

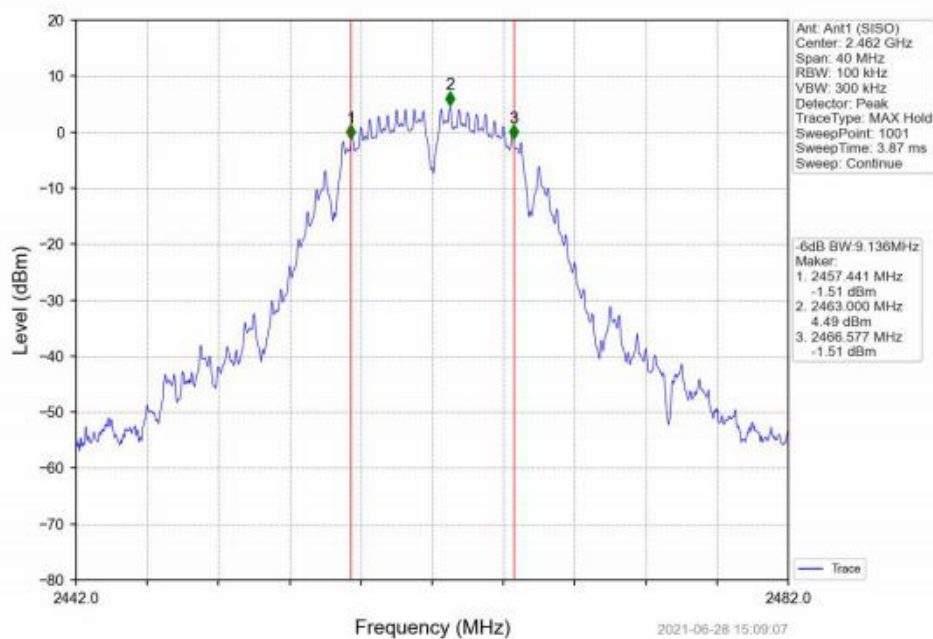
802.11b LCH 2412MHz_Ant1 (SISO)_NTNV



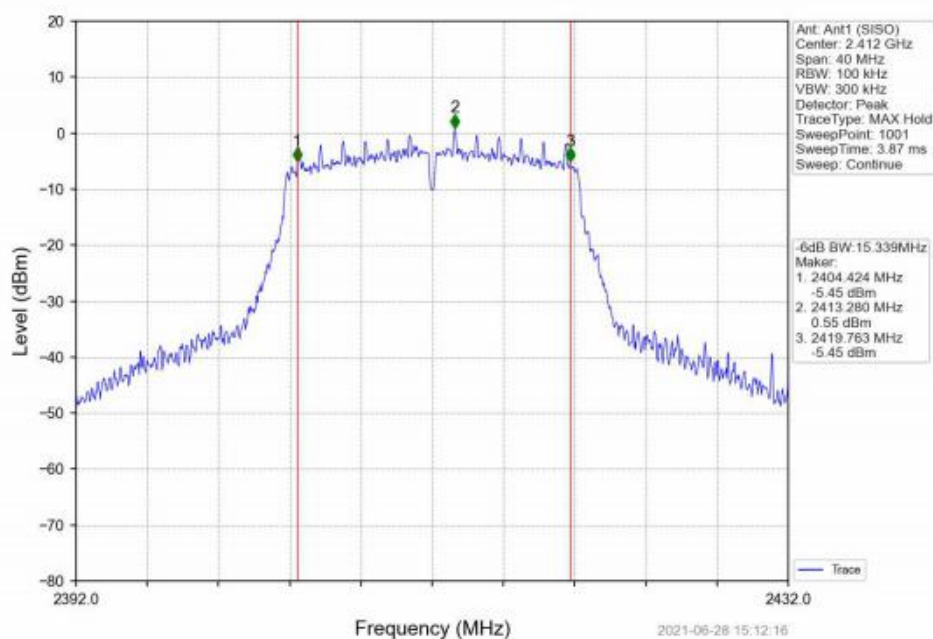
802.11b MCH 2437MHz_Ant1 (SISO)_NTNV



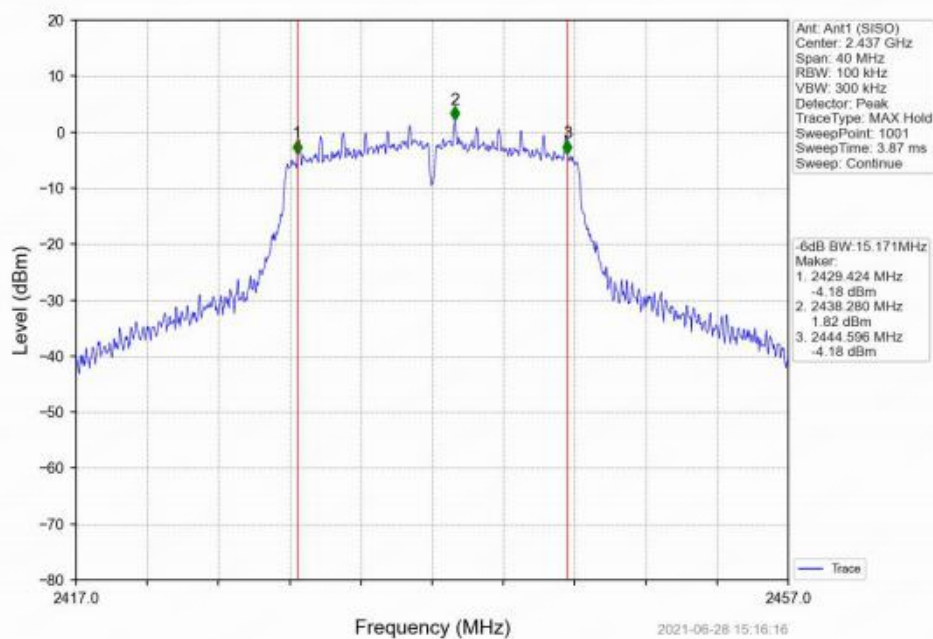
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



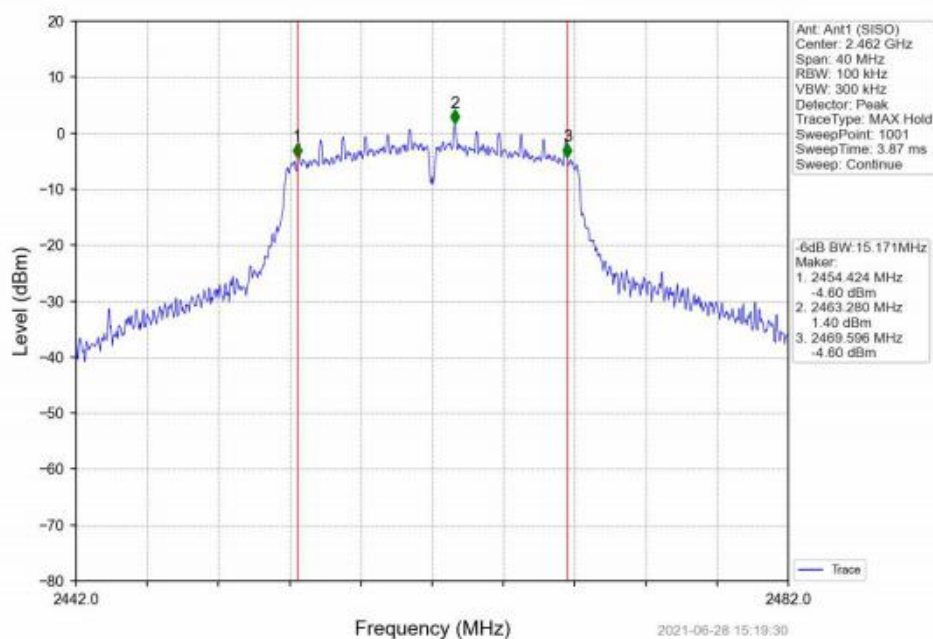
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



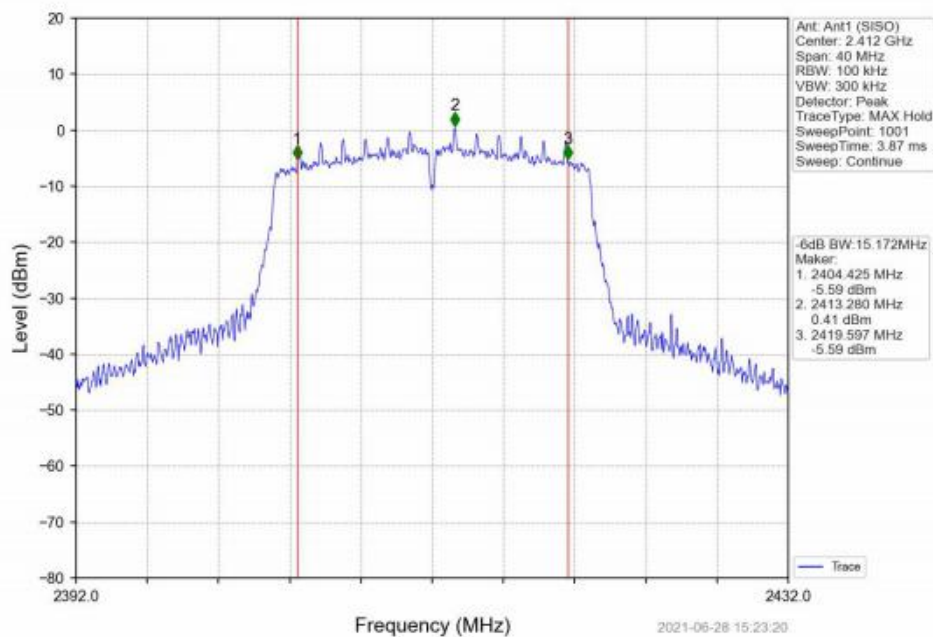
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



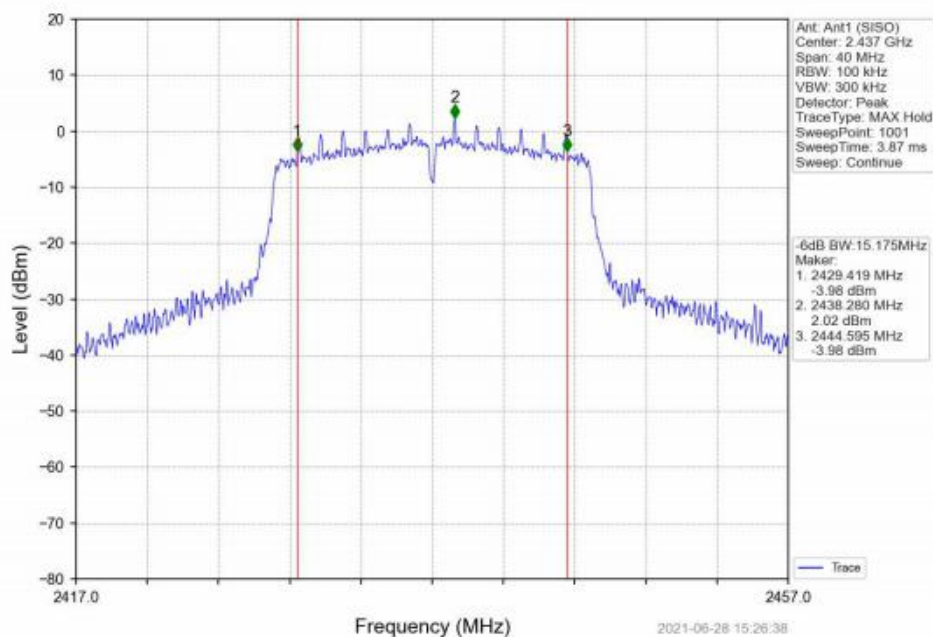
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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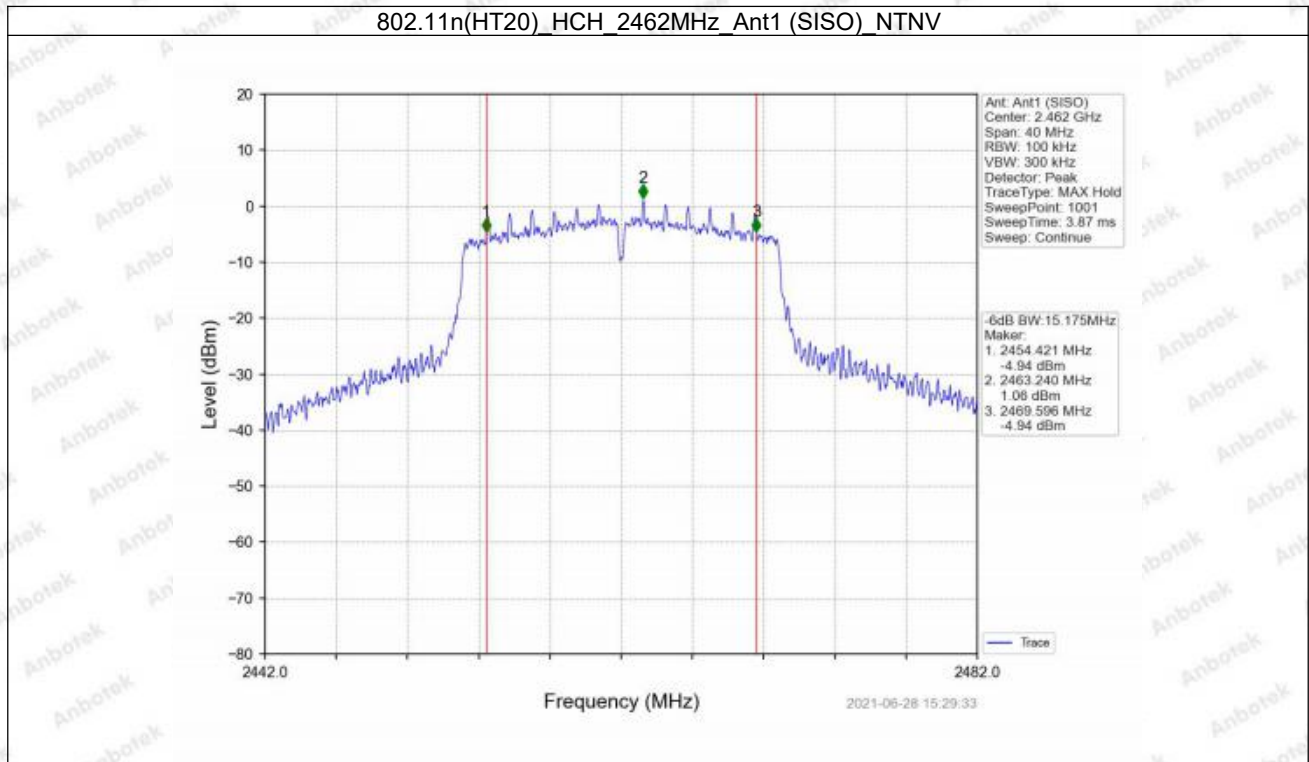
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3. Maximum Conducted Output Power

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

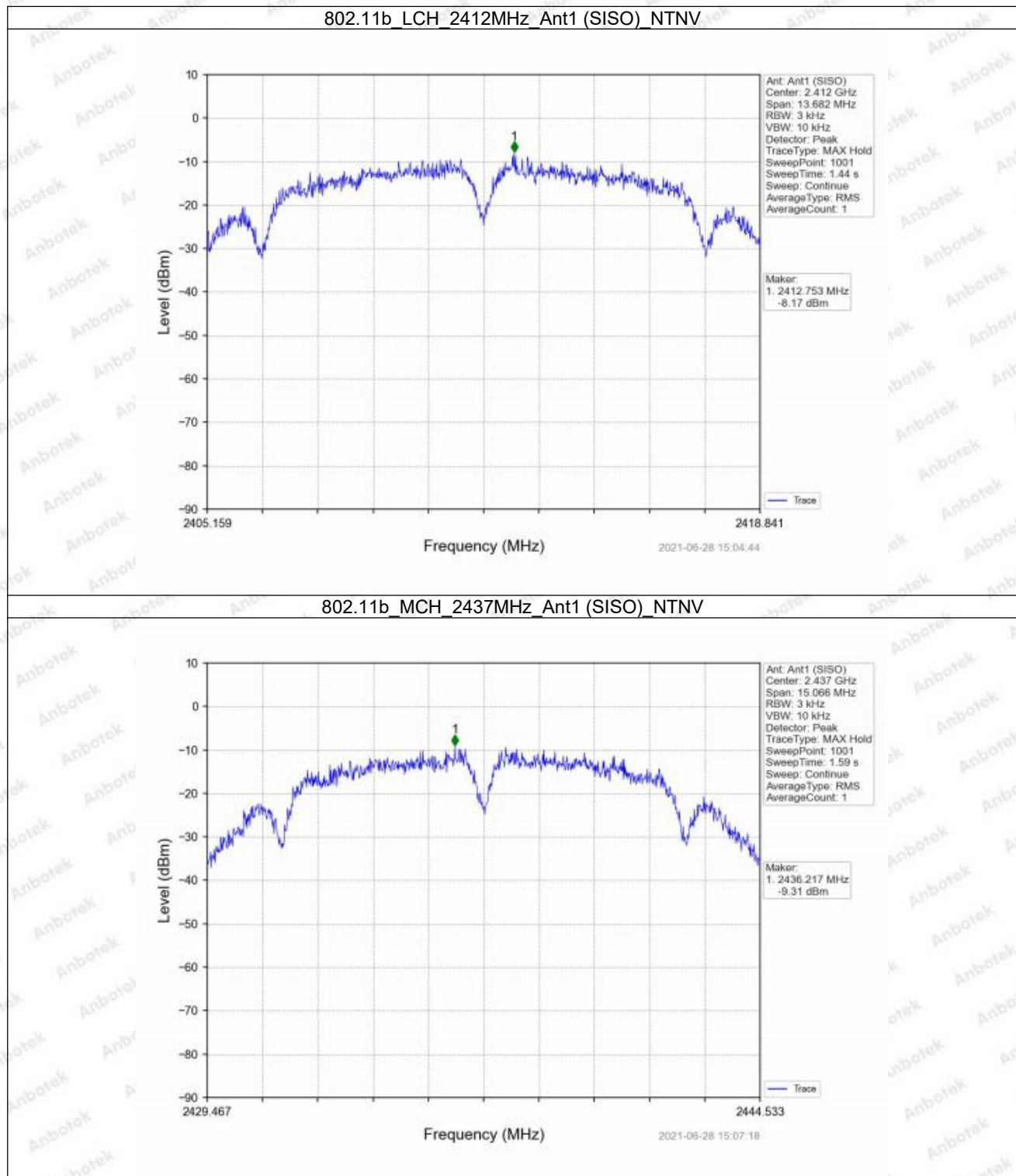
4.1 PSD

4.1.1 Test Result

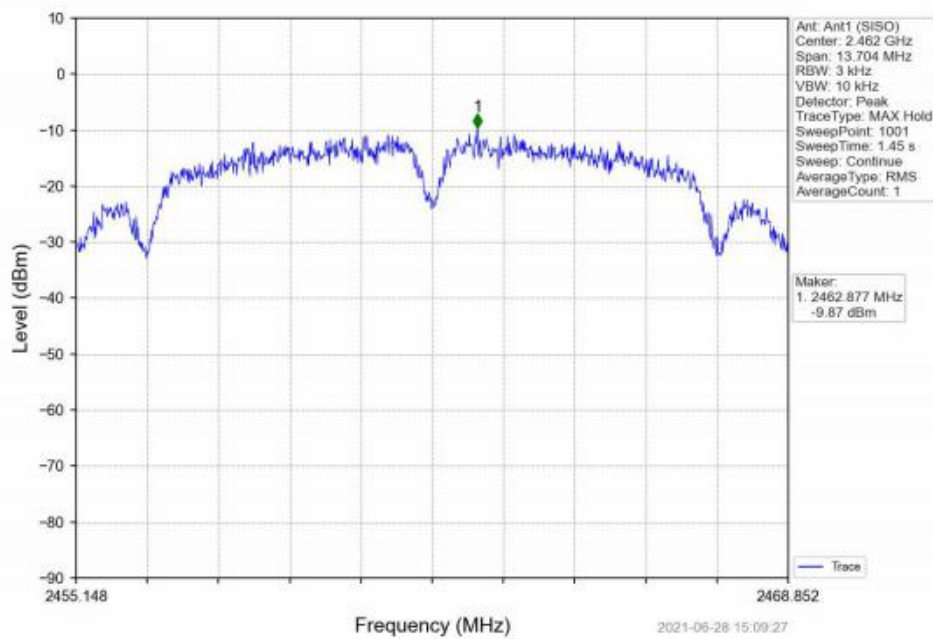
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-8.17	<=8	Pass
		2437	/	/	-9.31	<=8	Pass
		2462	/	/	-9.87	<=8	Pass
802.11g	SISO	2412	/	/	-14.63	<=8	Pass
		2437	/	/	-12.43	<=8	Pass
		2462	/	/	-13.54	<=8	Pass
802.11n (HT20)	SISO	2412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

Note1: Antenna Gain: 2.80dBi;

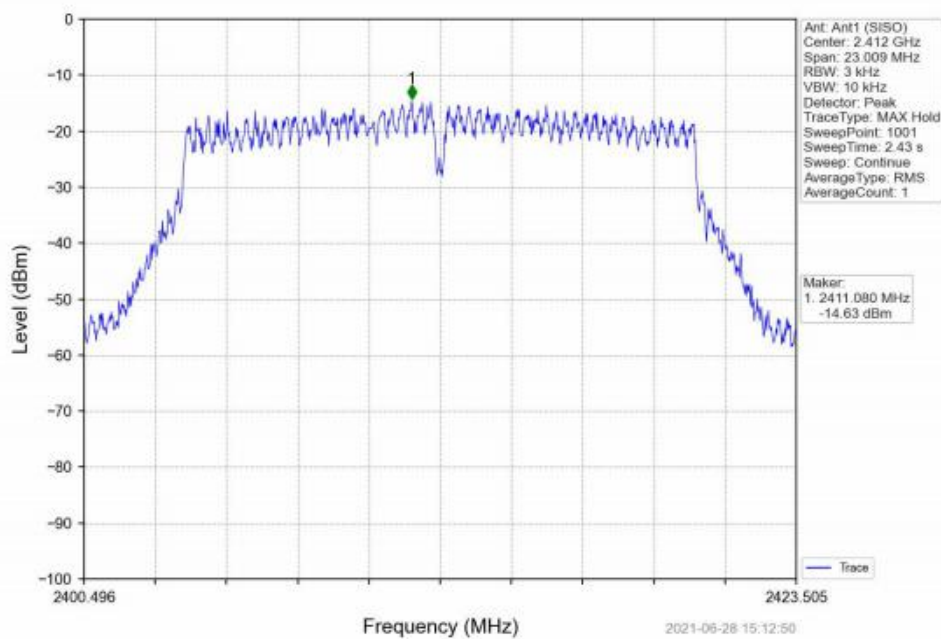
4.1.2 Test Graph



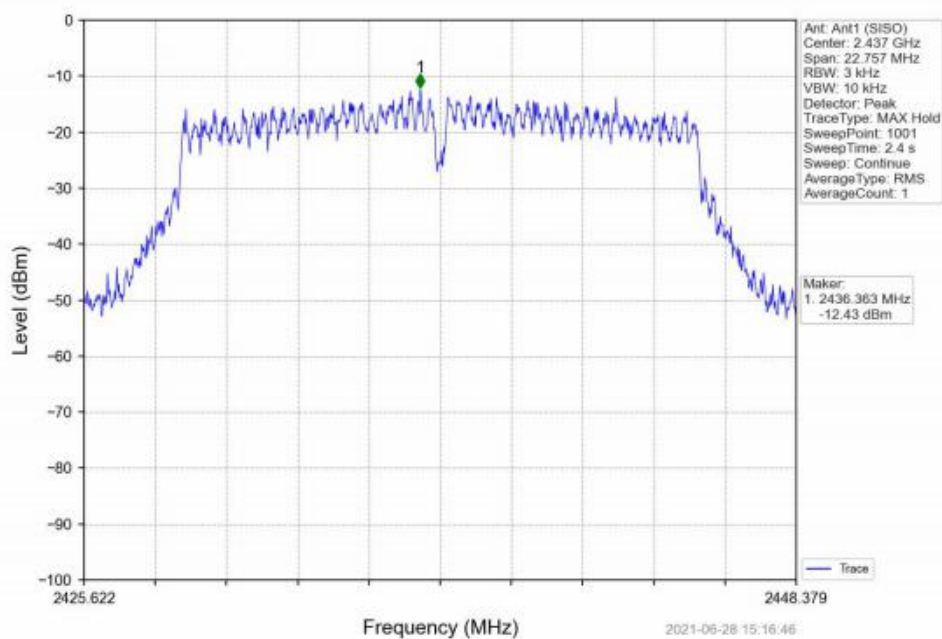
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



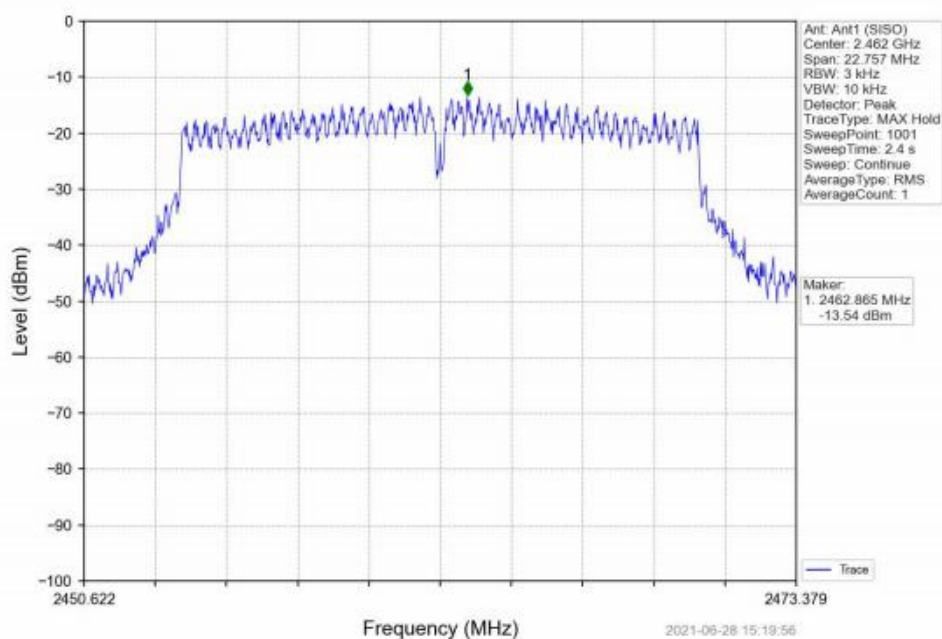
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



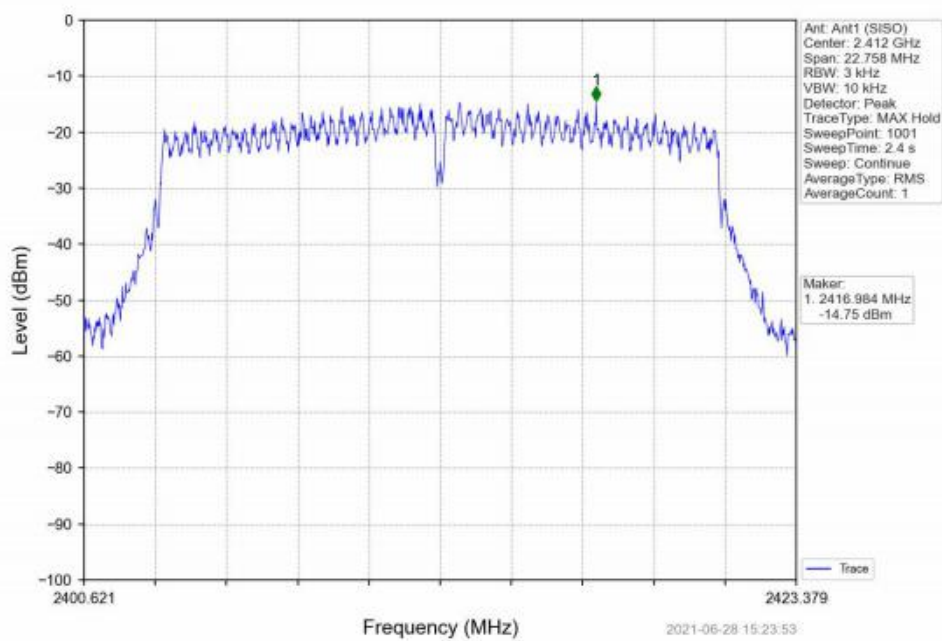
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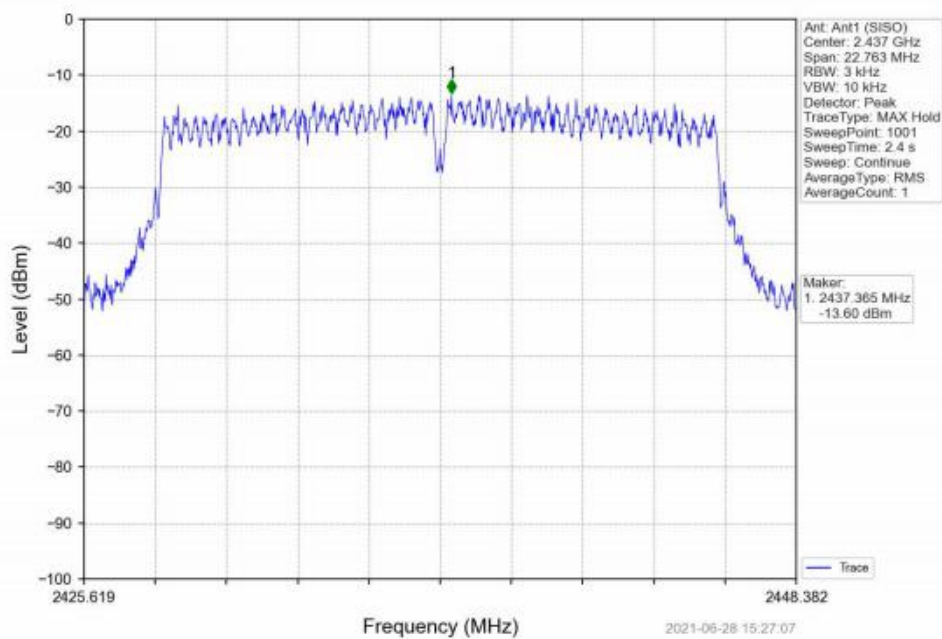
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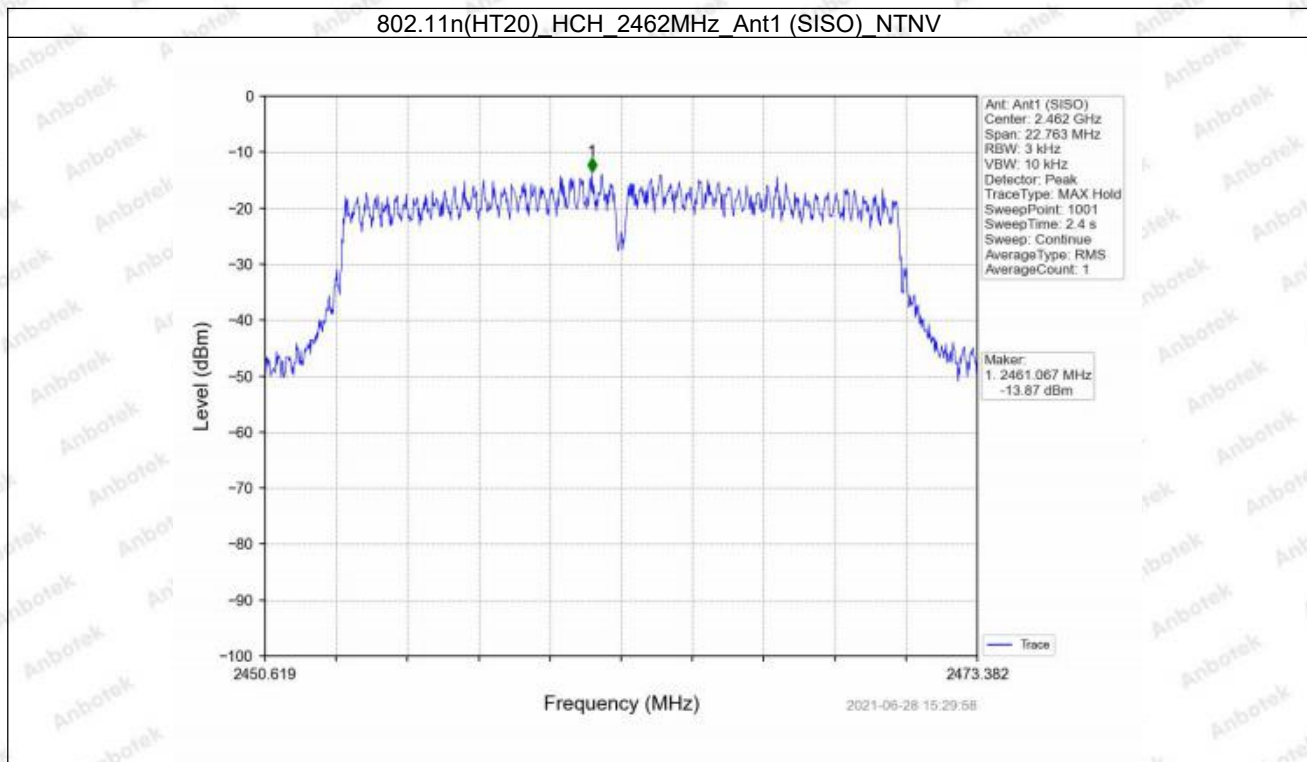
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

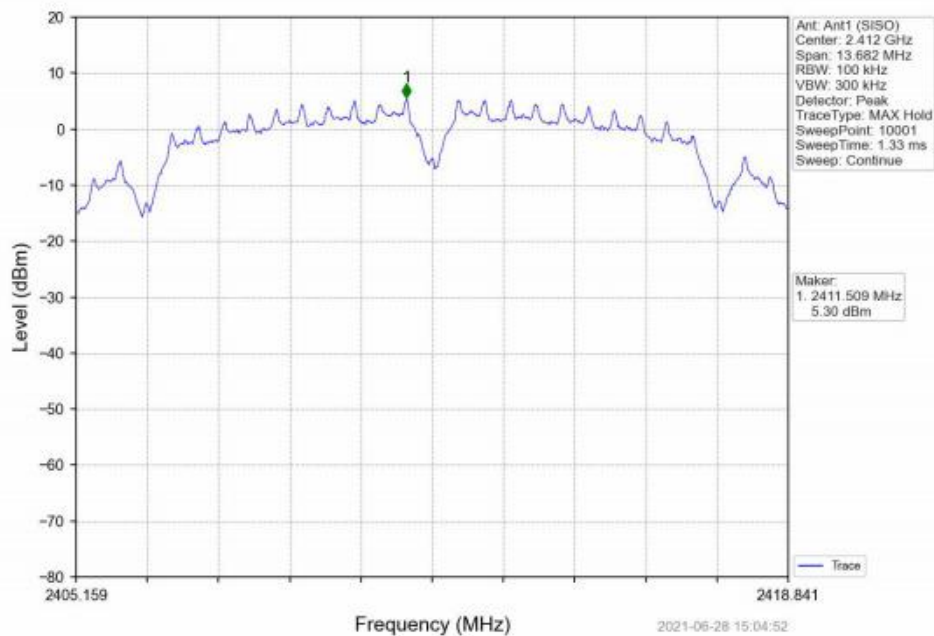
5.1.1 Test Result

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	/	/

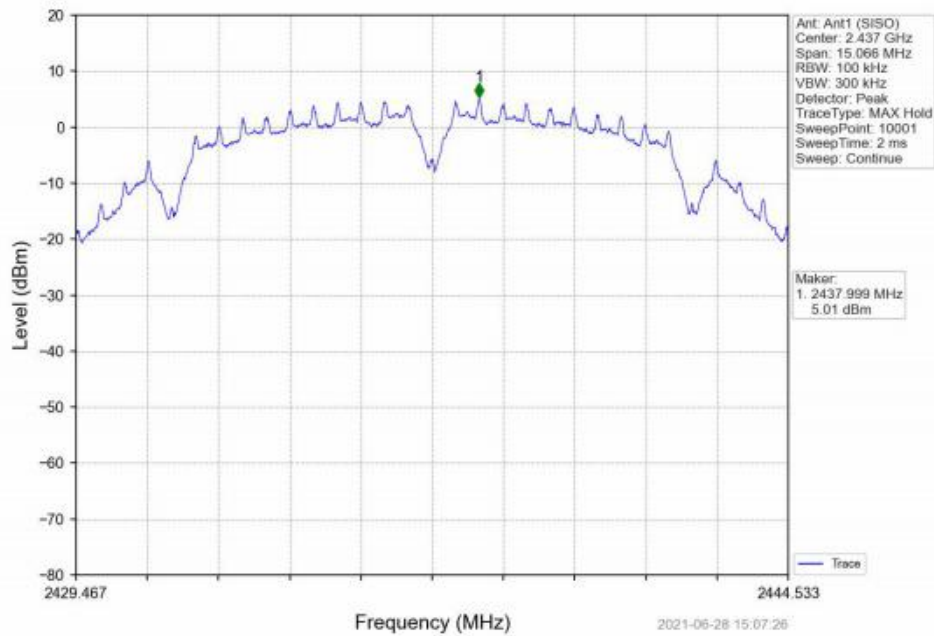
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

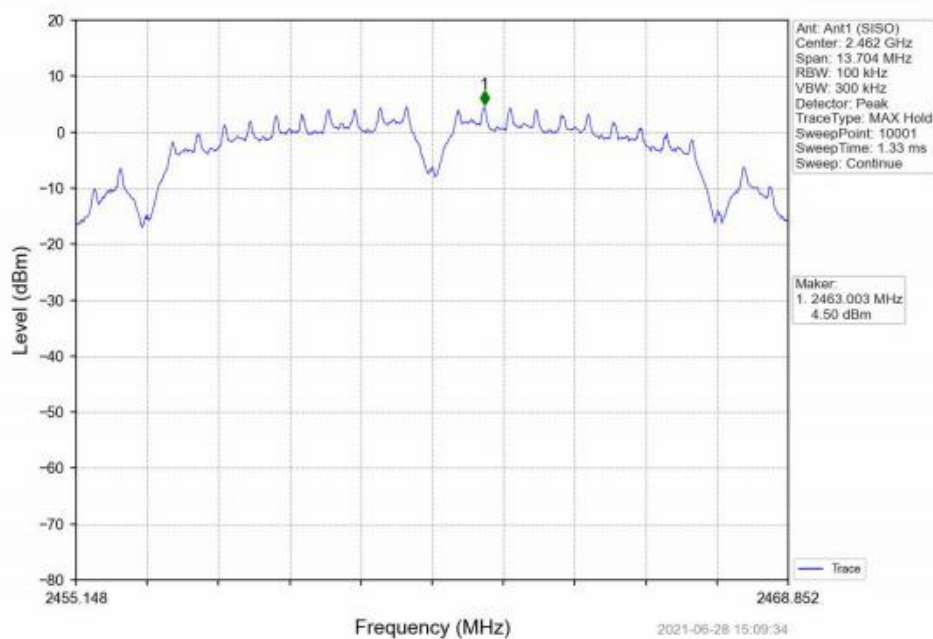
802.11b LCH 2412MHz_Ant1 (SISO) NTN



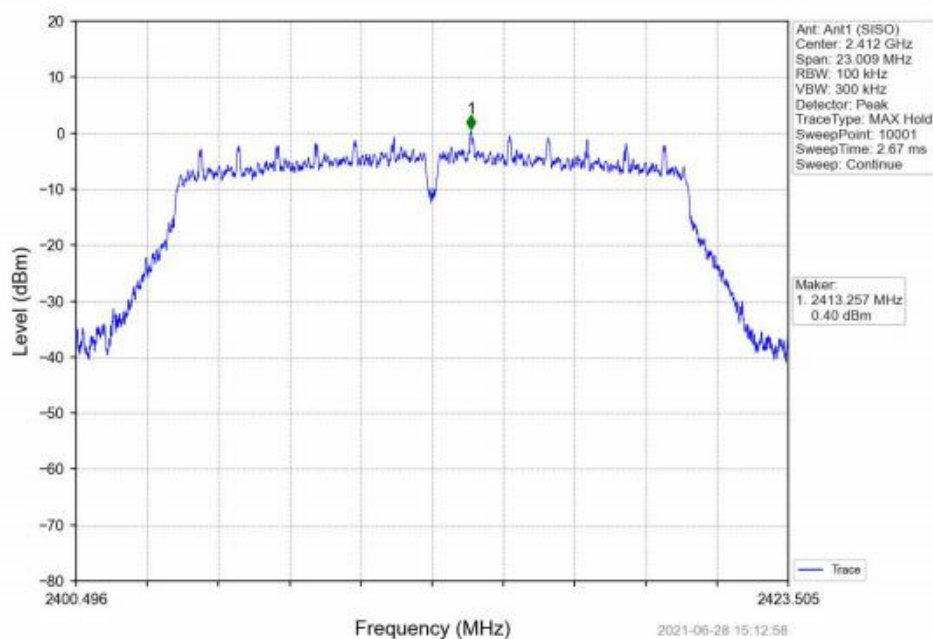
802.11b MCH 2437MHz_Ant1 (SISO) NTN



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



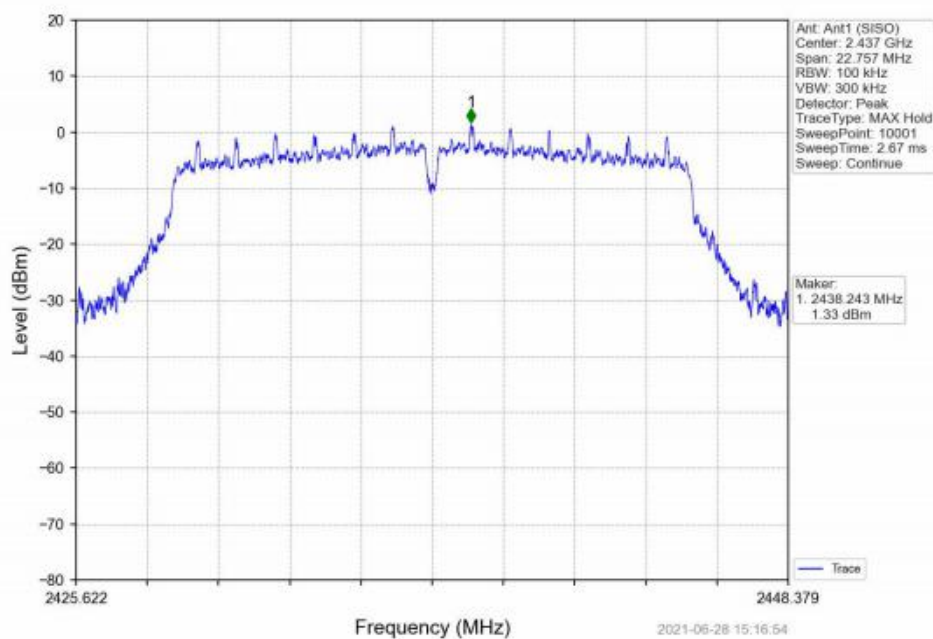
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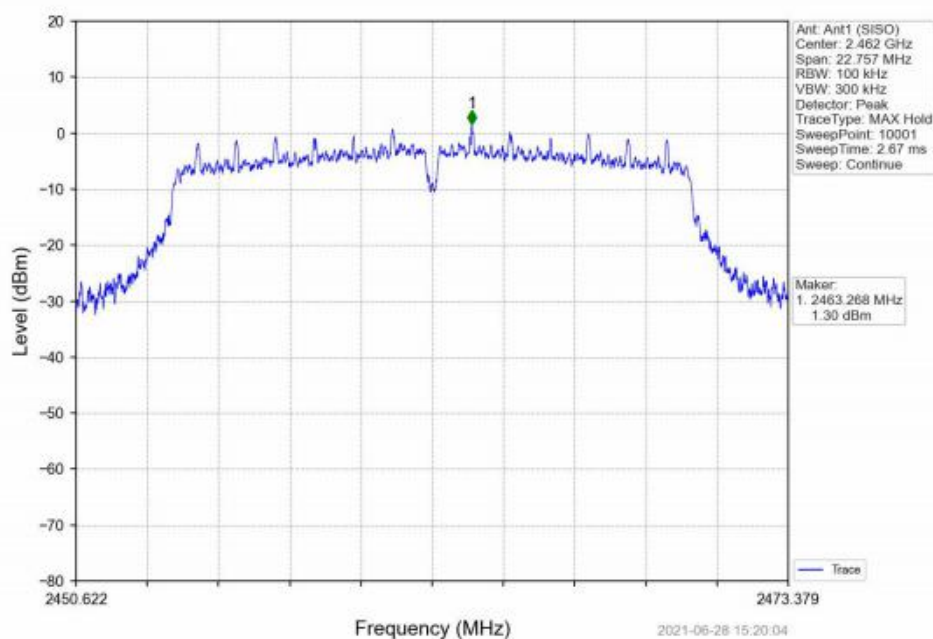
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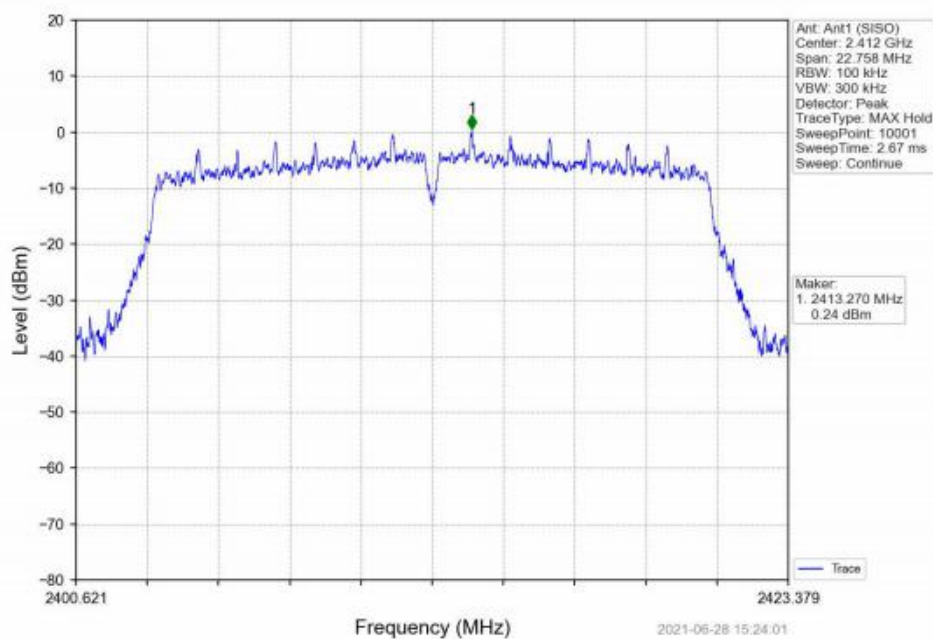
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



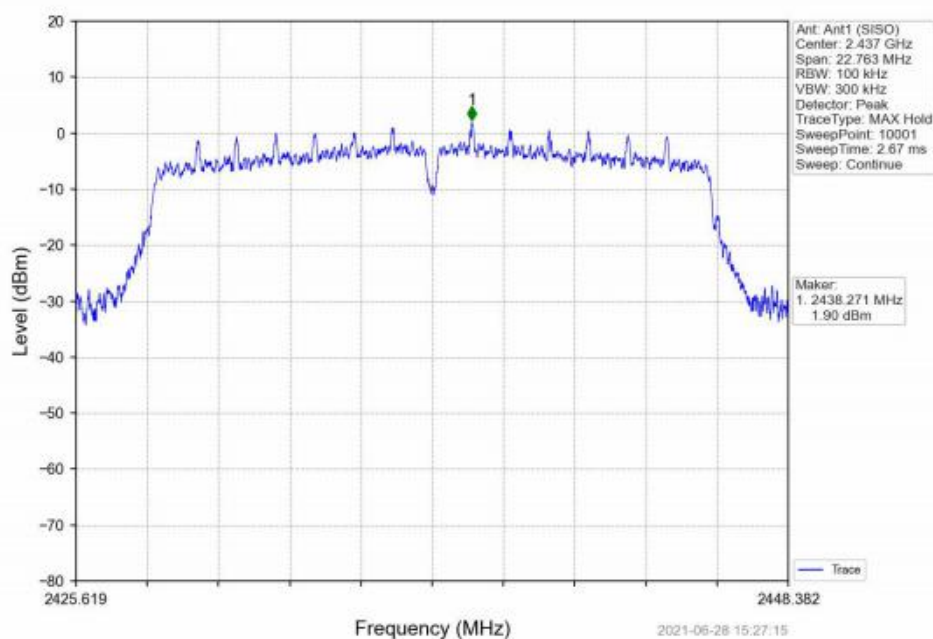
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

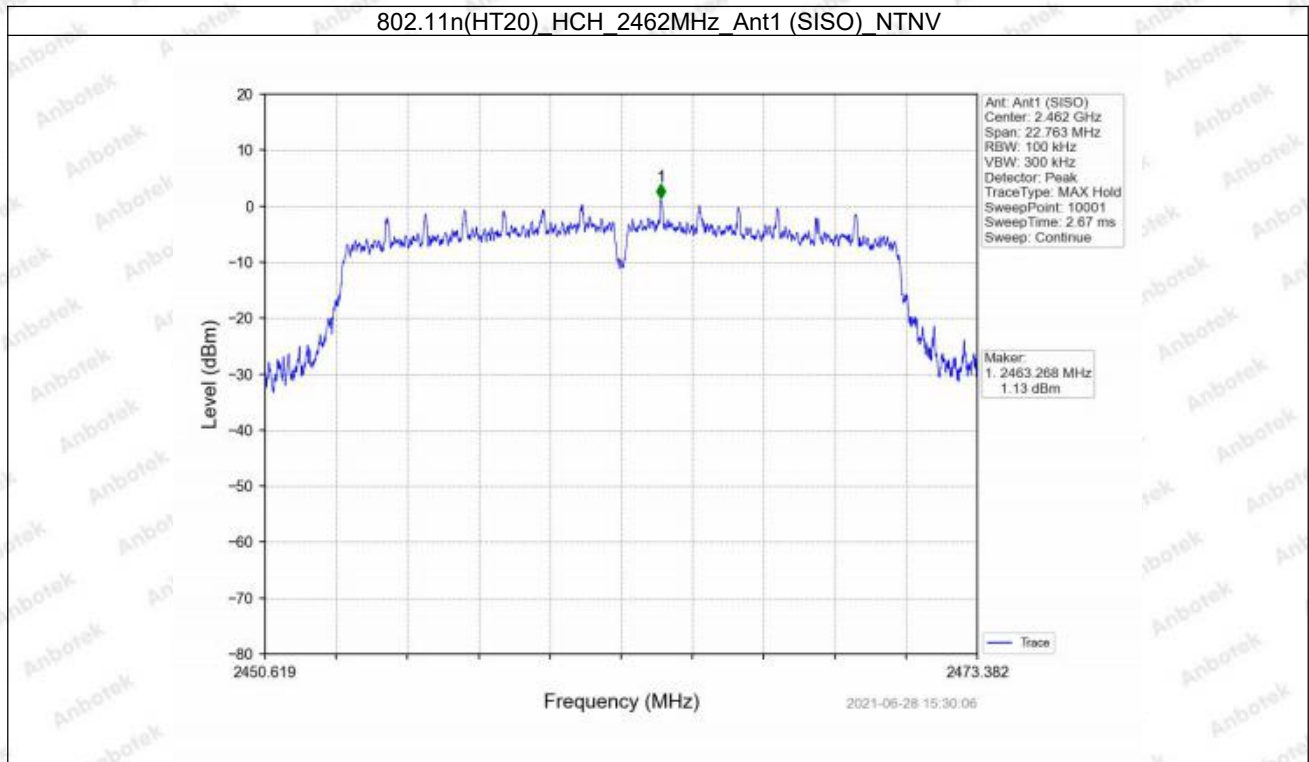


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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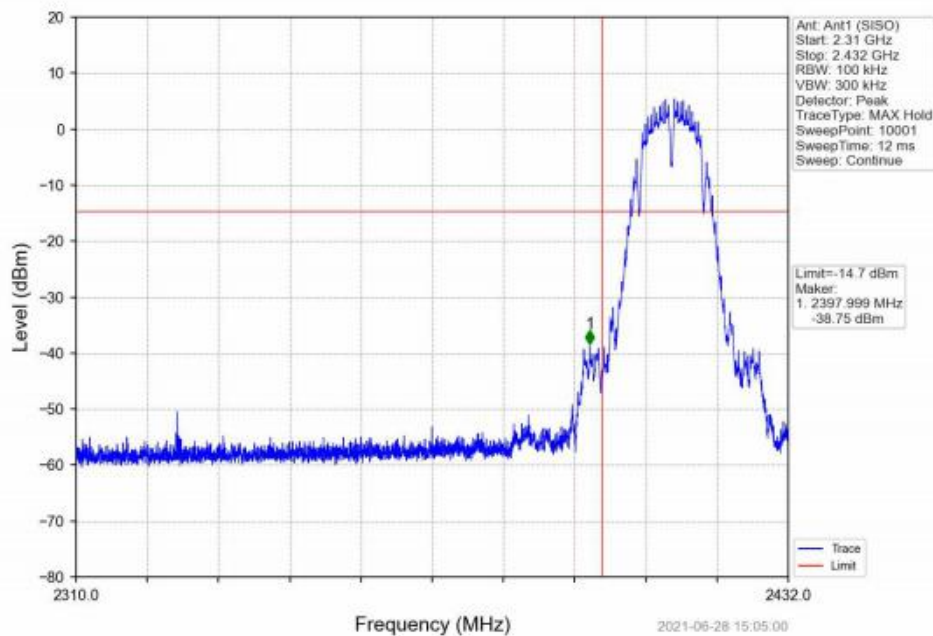
5.2 CSE

5.2.1 Test Result

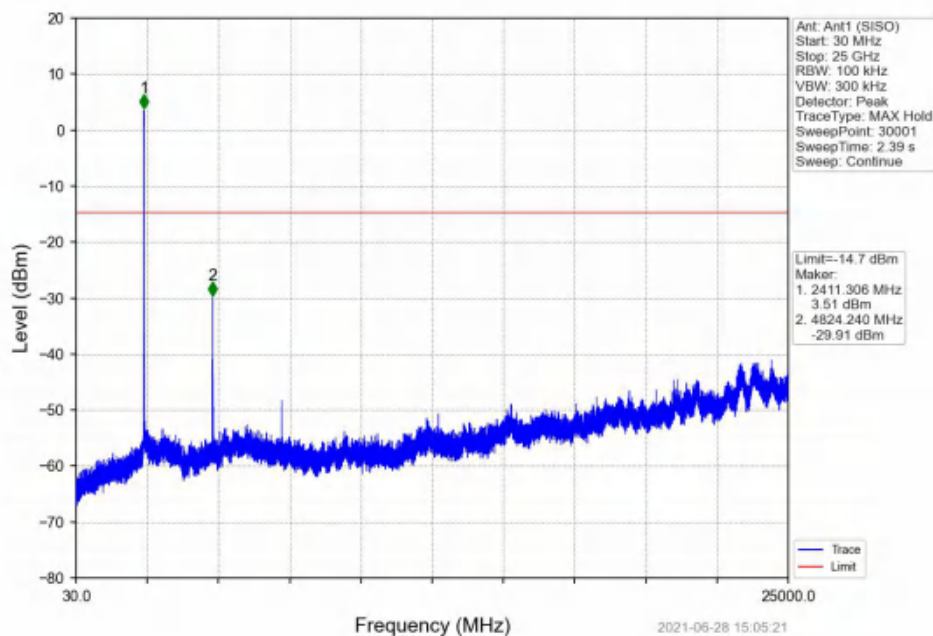
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2437	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
		2462	/	/	1	Refer To Test Graph	Refer To Test Graph	Pass
802.11g	SISO	2412	/	/	1	Refer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

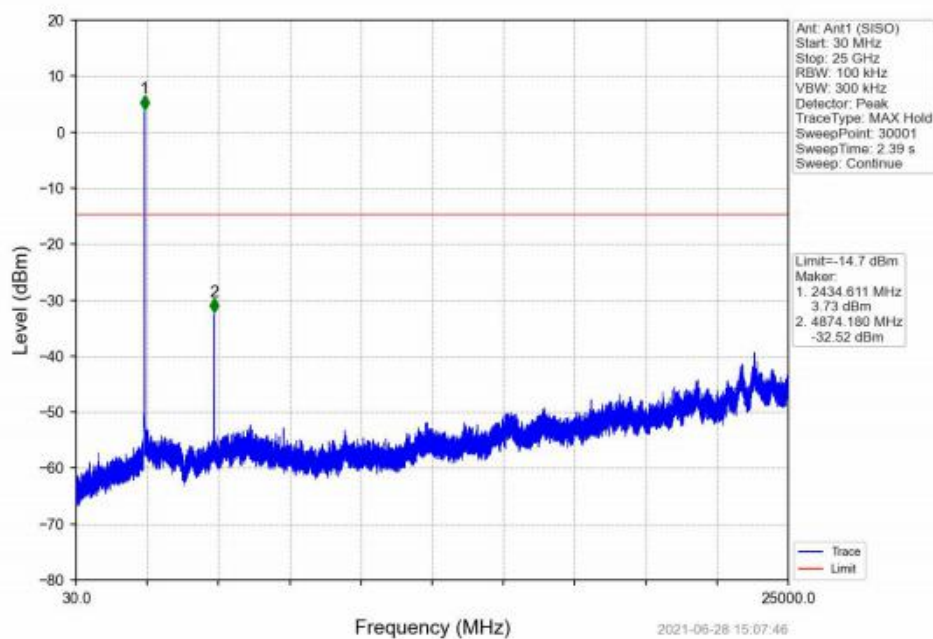
802.11b LCH 2412MHz_Ant1 (SISO) NTN



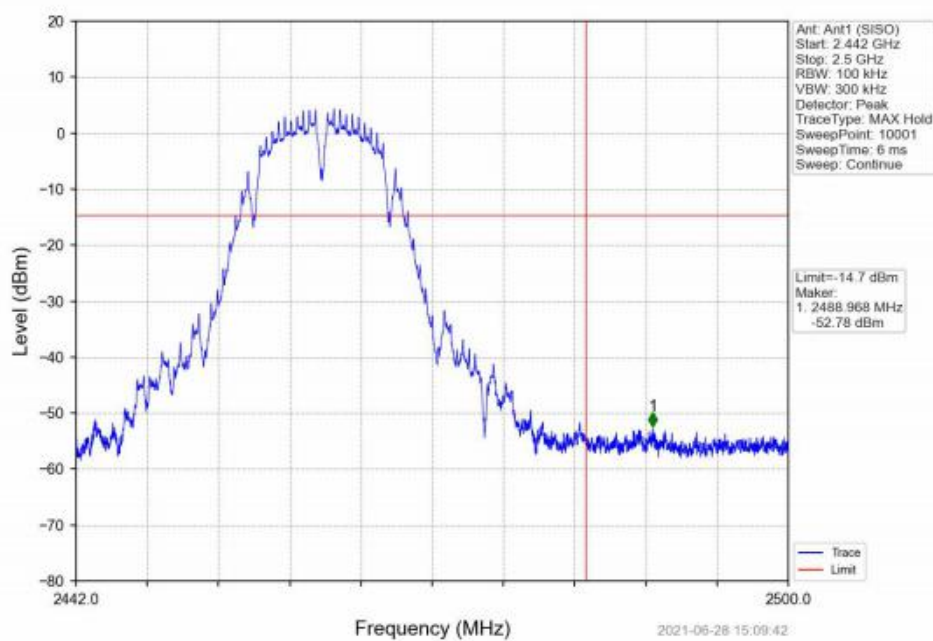
802.11b LCH 2412MHz_Ant1 (SISO) NTN



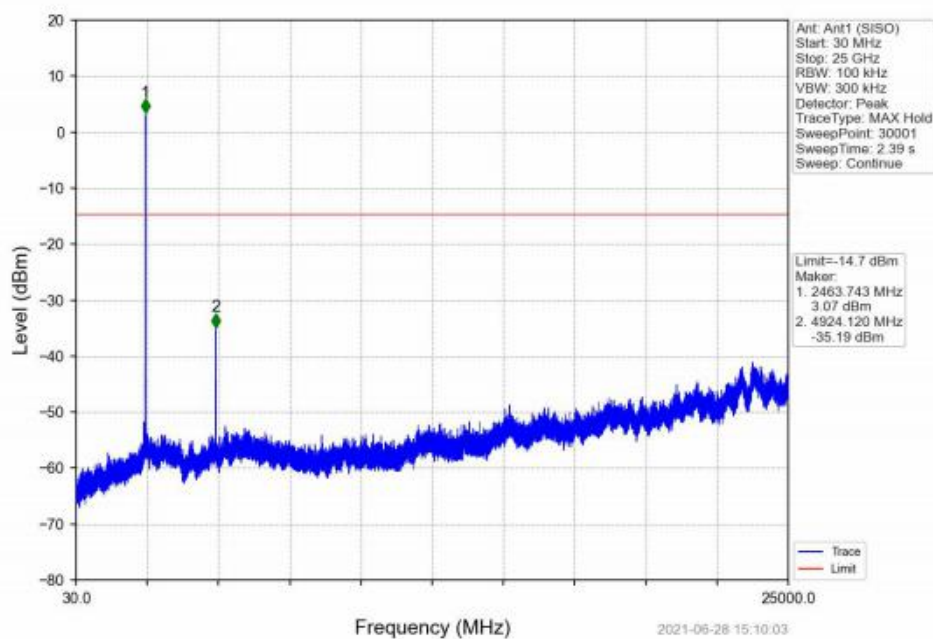
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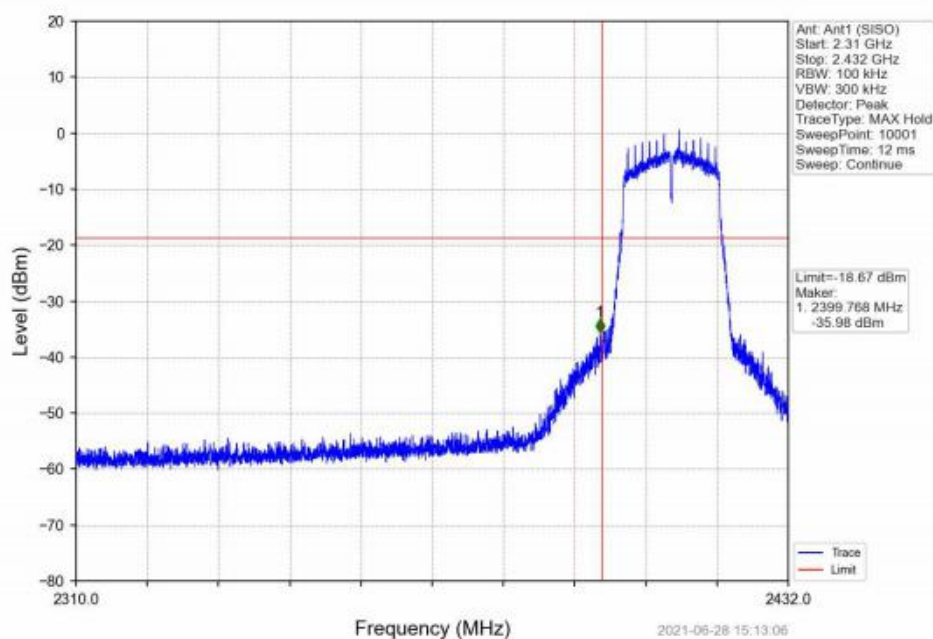
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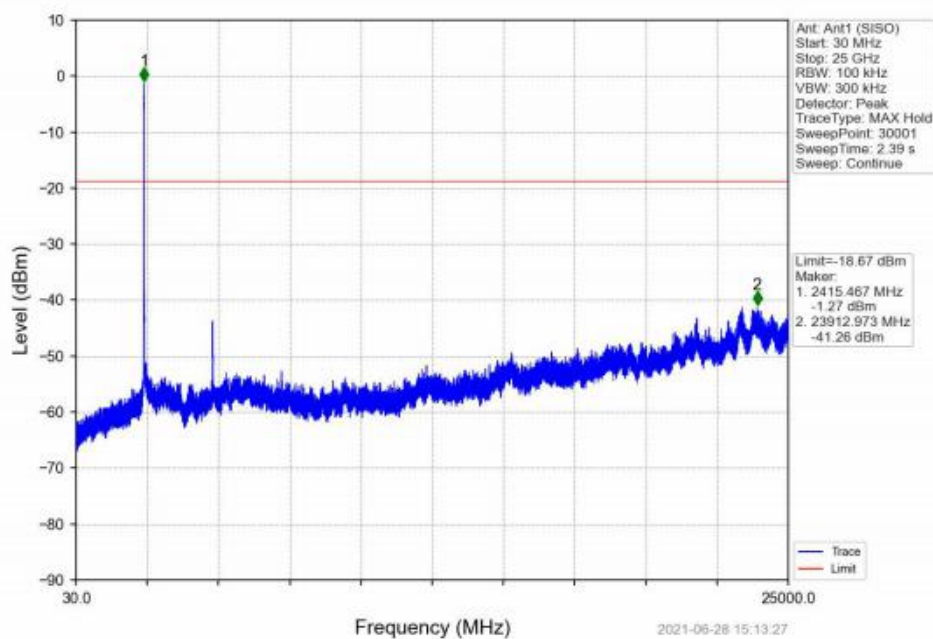
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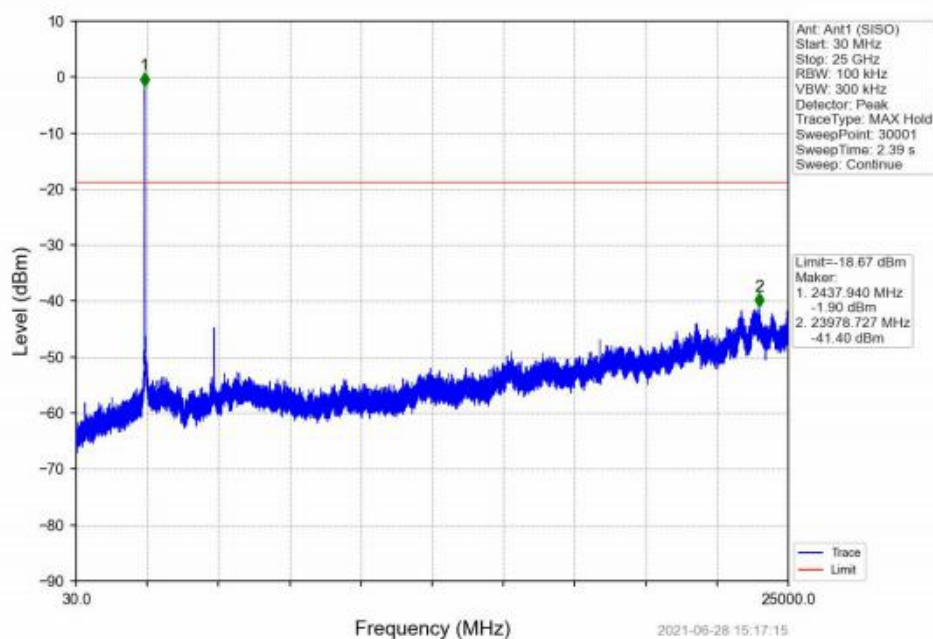
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



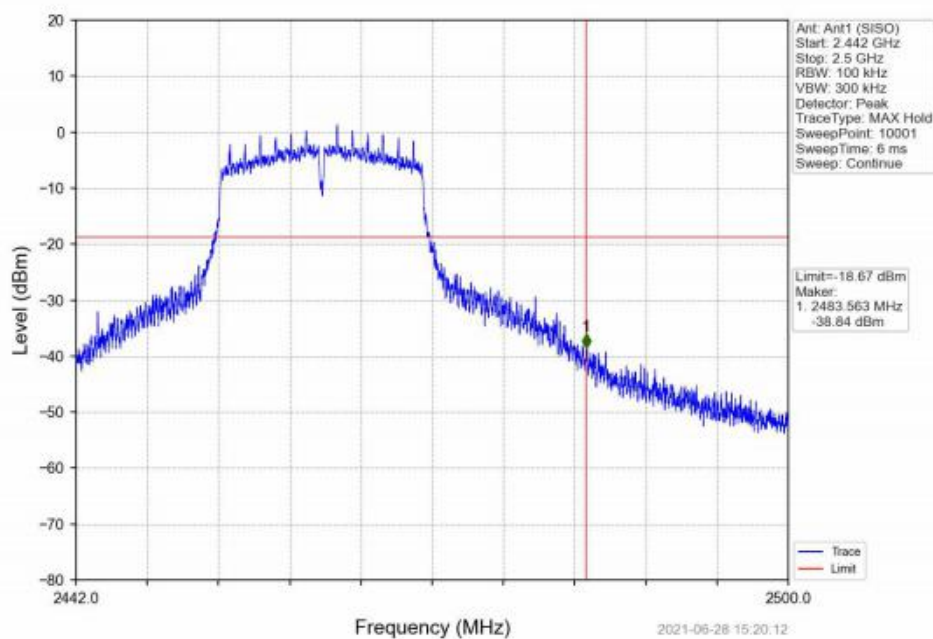
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

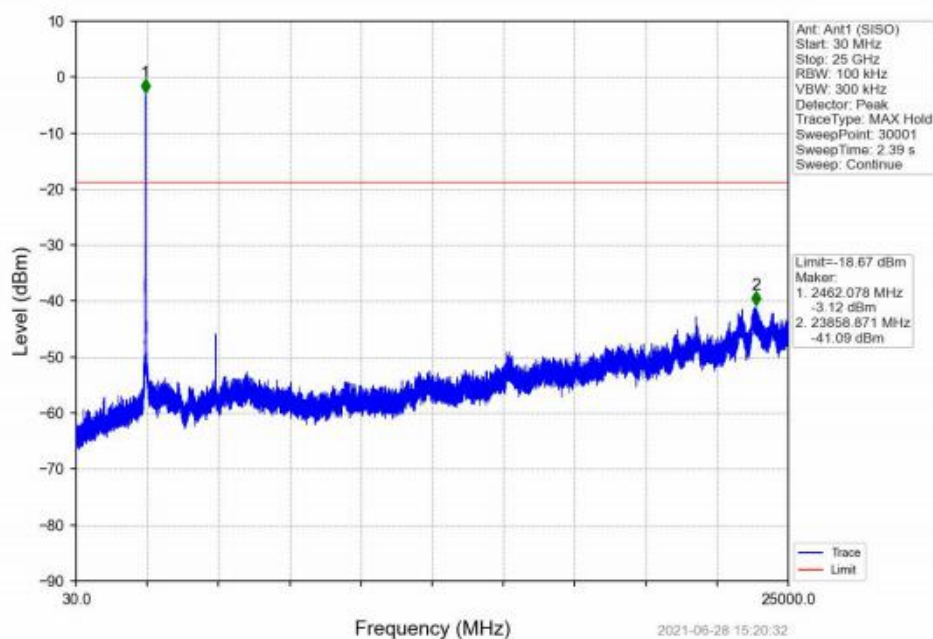
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

Hotline
400-003-0500
www.anbotech.com

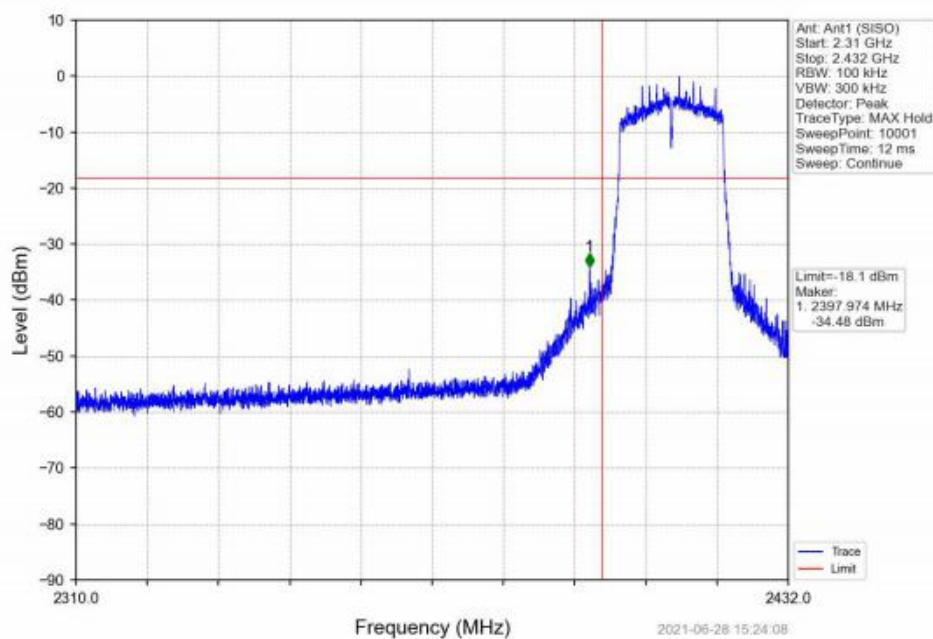
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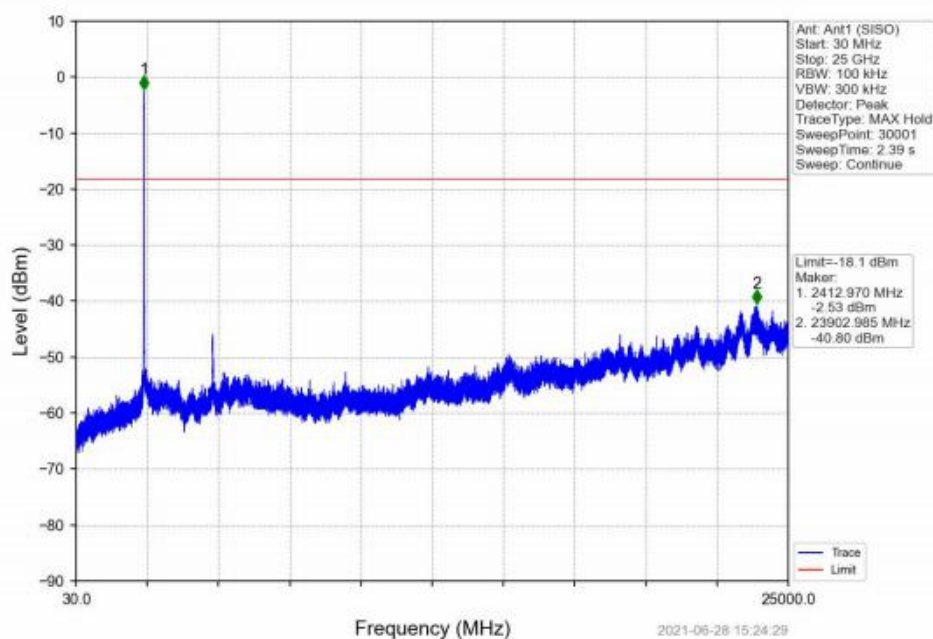
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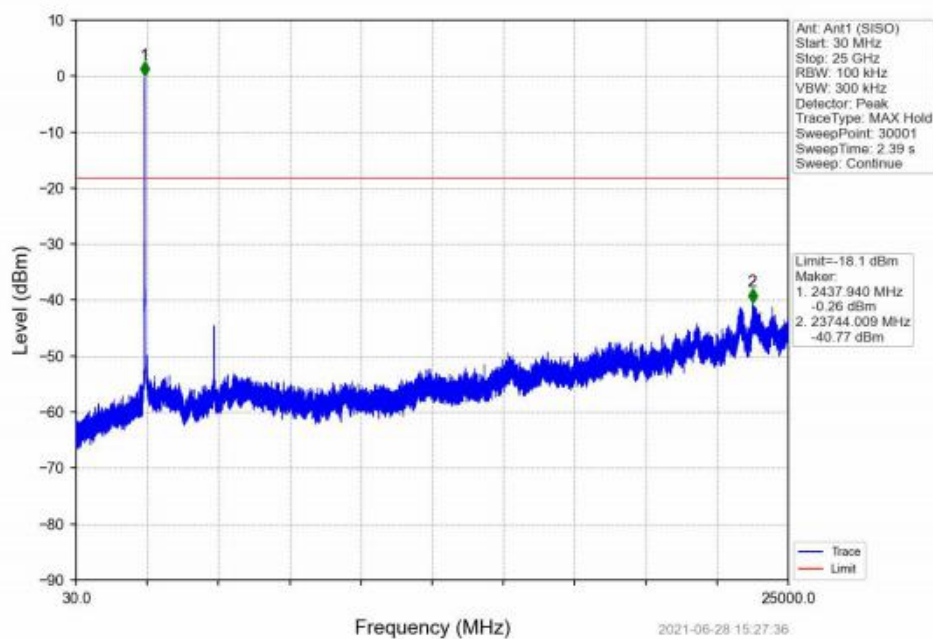
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



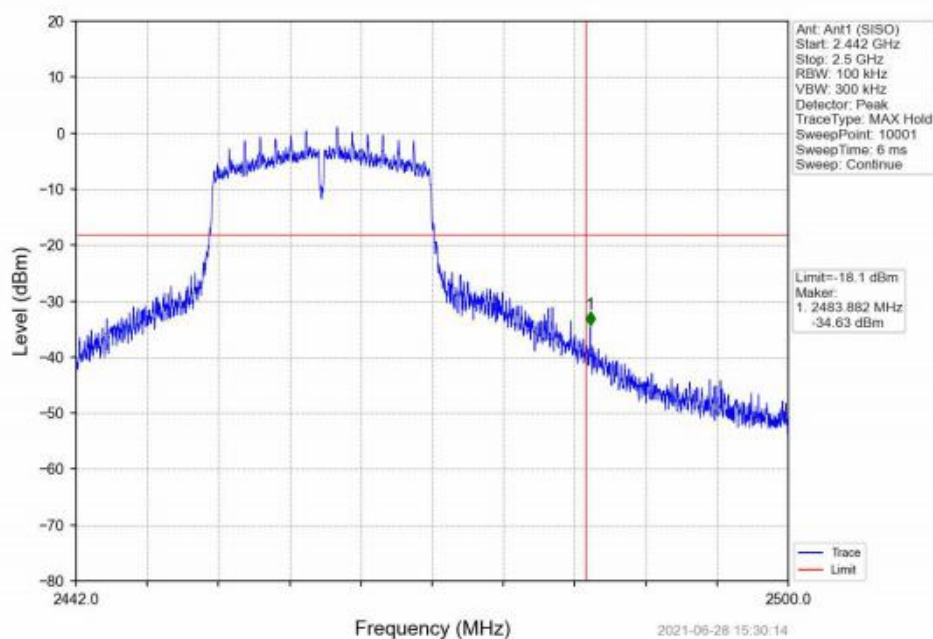
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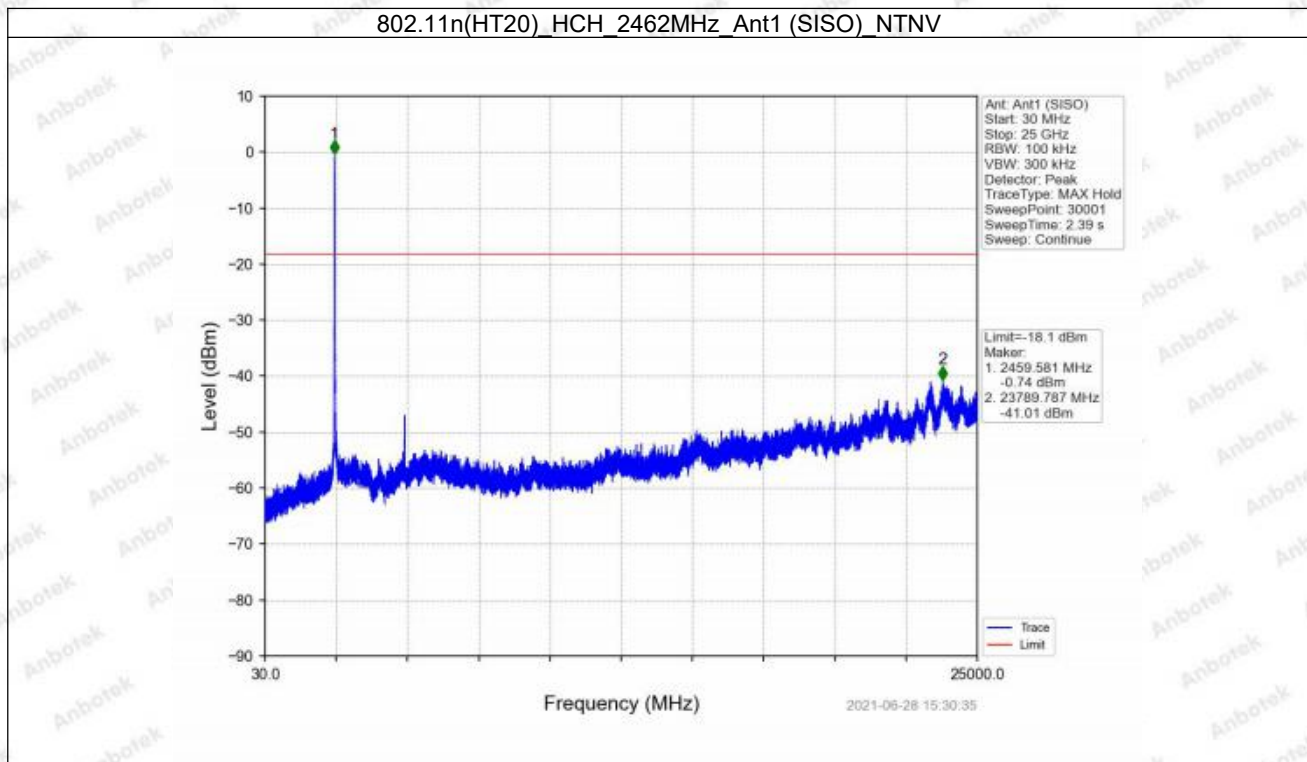


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





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