

Appendix Test Data

Report No.:	18220WC10101001	Test Date:	2021.6.2
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.3°C	Relative Humidity:	55 %
Pressure:	1012 hPa		

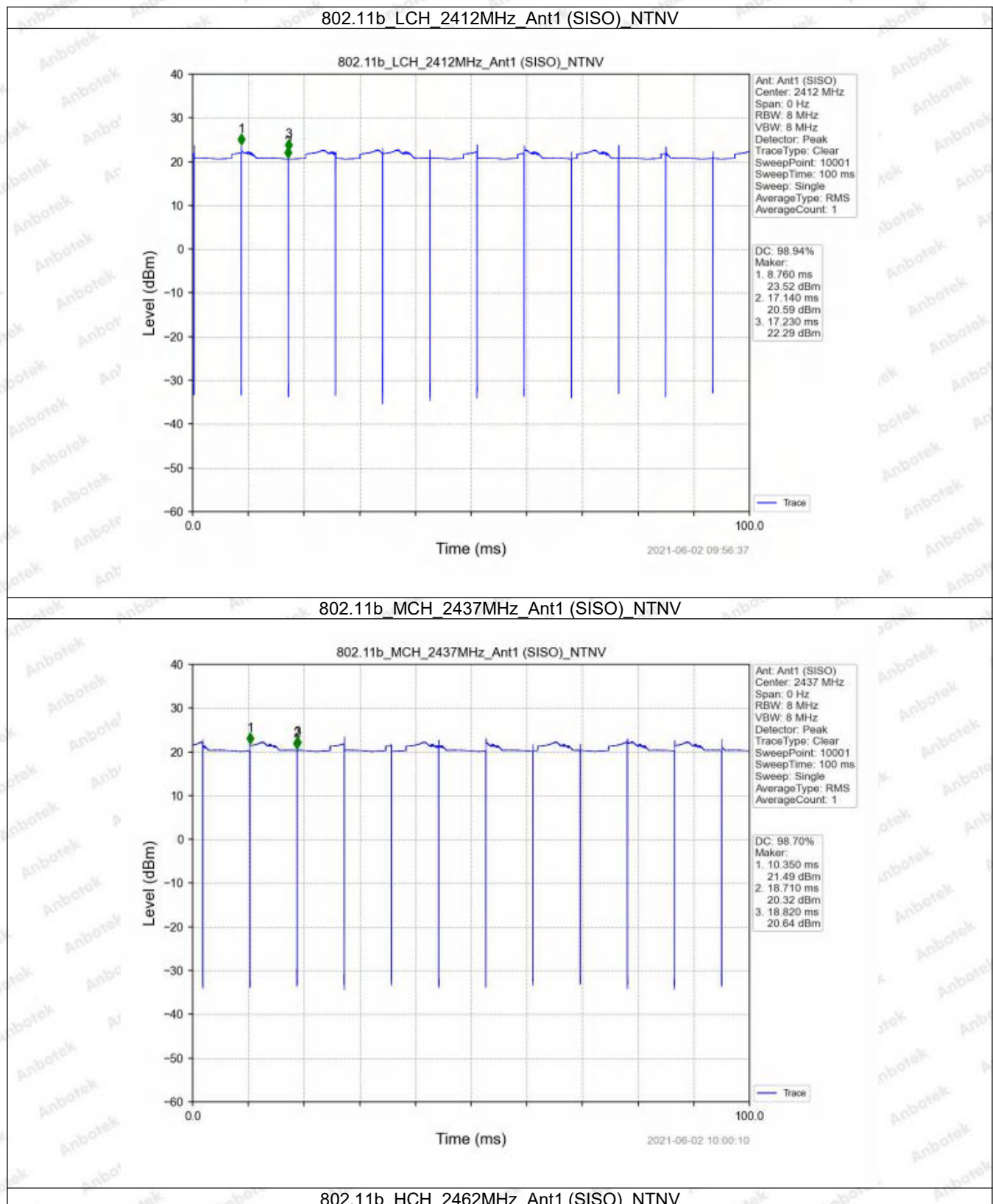
1. Duty Cycle

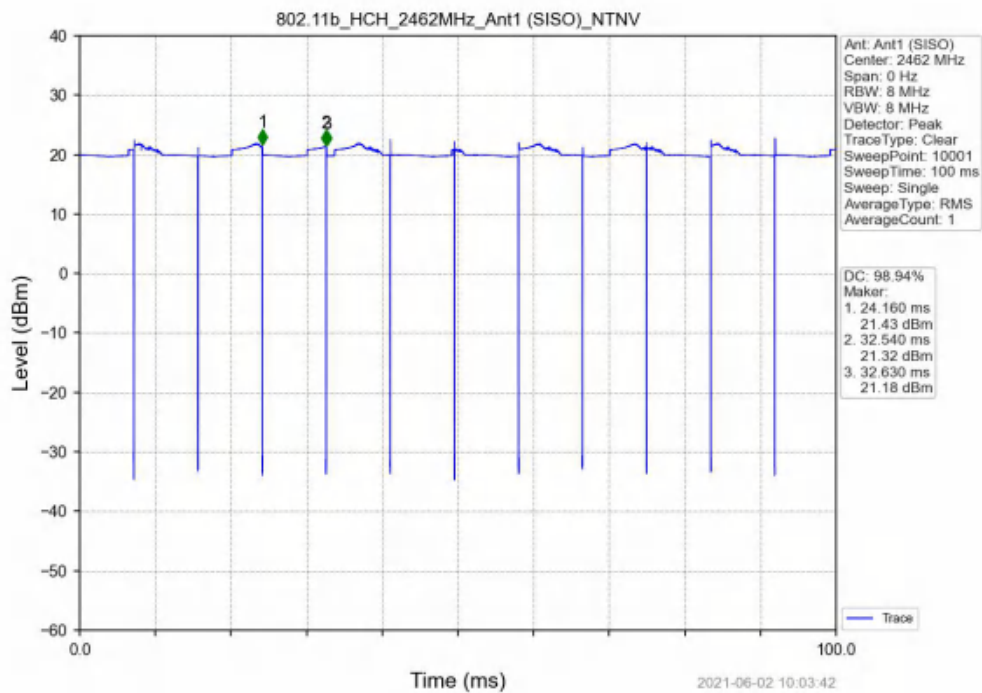
1.1 Ant1

1.1.1 Test Result

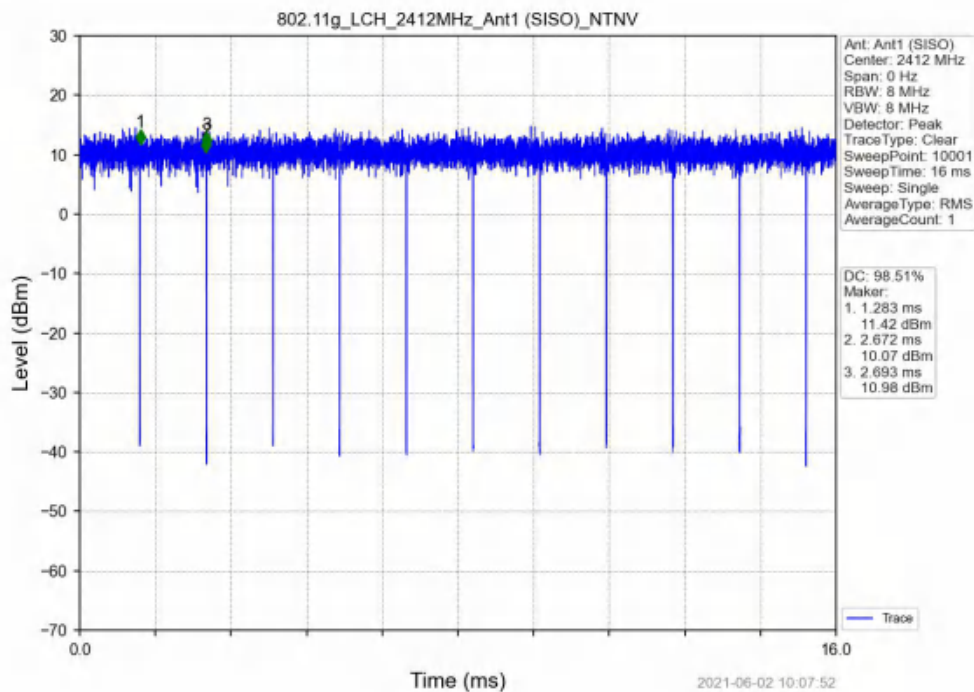
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.38	8.47	98.94	0.05	0.00
		2437	/	/	8.36	8.47	98.70	0.06	0.12
		2462	/	/	8.38	8.47	98.94	0.05	0.12
802.11g	SISO	2412	/	/	1.39	1.41	98.51	0.07	0.00
		2437	/	/	1.39	1.41	98.51	0.07	0.11
		2462	/	/	1.39	1.41	98.51	0.07	0.10
802.11n (HT20)	SISO	2412	/	/	1.30	1.32	98.56	0.06	0.00
		2437	/	/	1.30	1.32	98.41	0.07	0.12
		2462	/	/	1.30	1.32	98.41	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

1.1.2 Test Graph

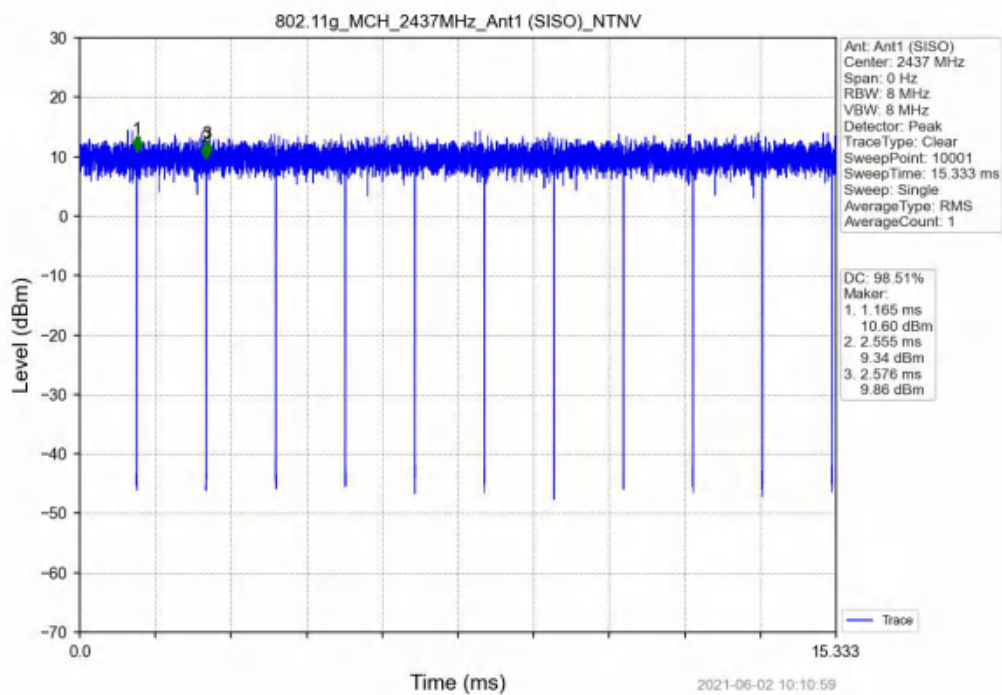




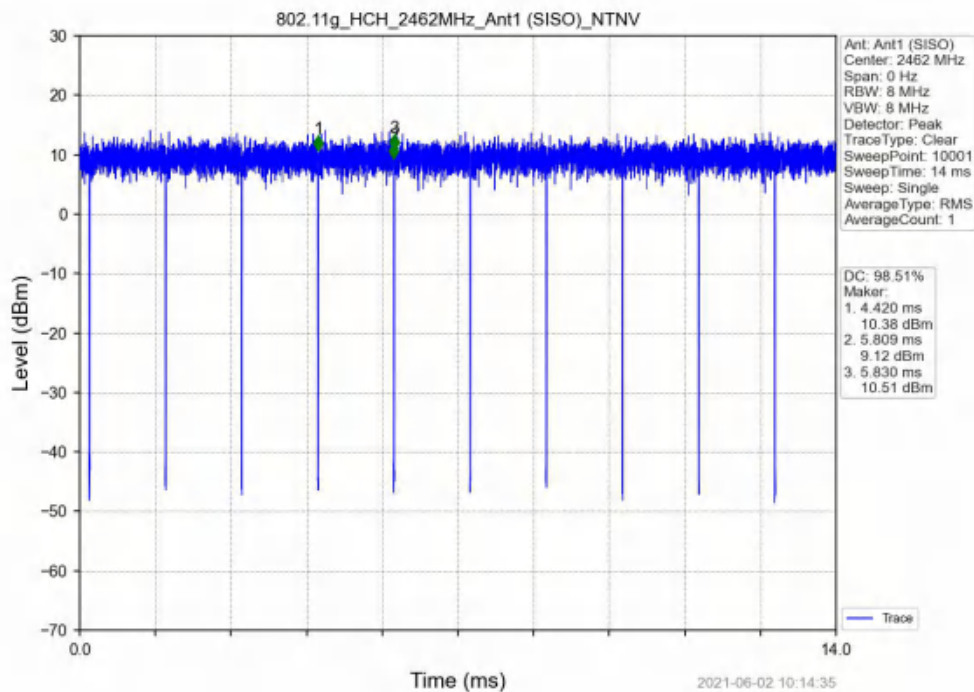
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



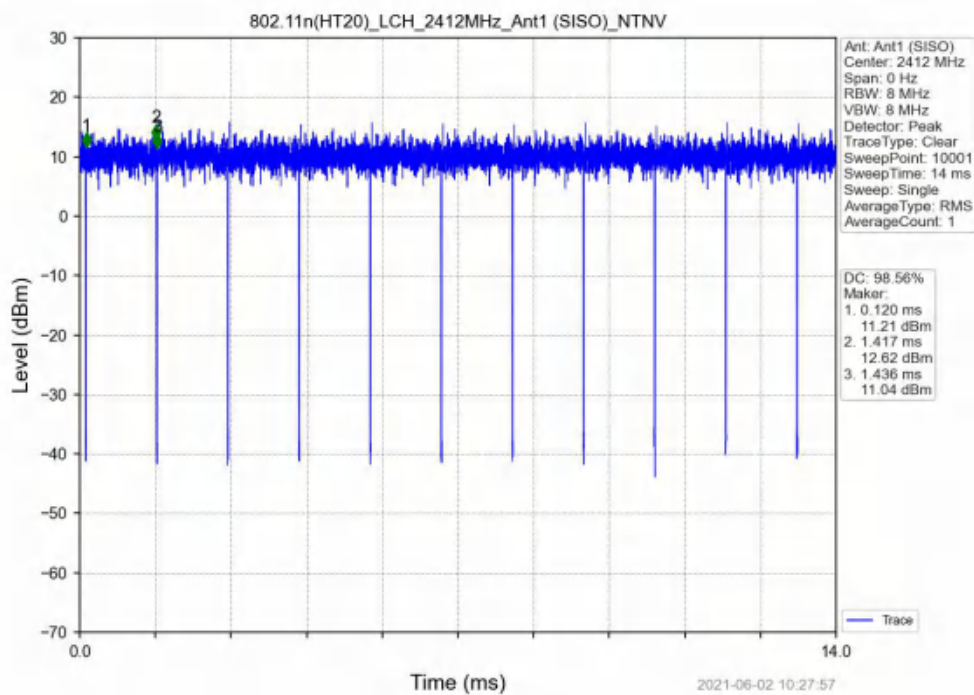
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



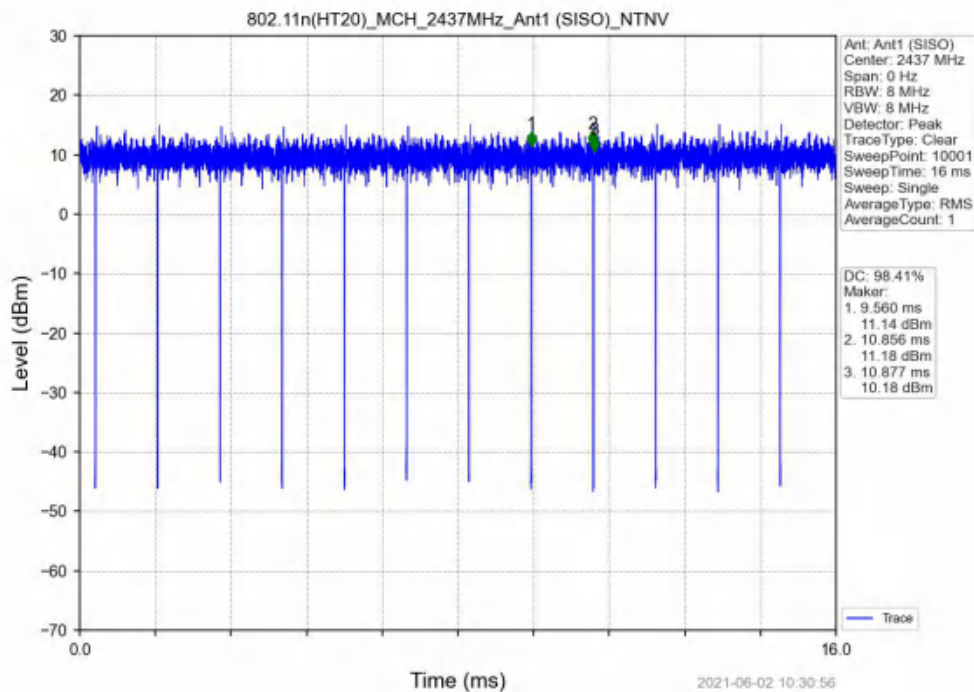
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



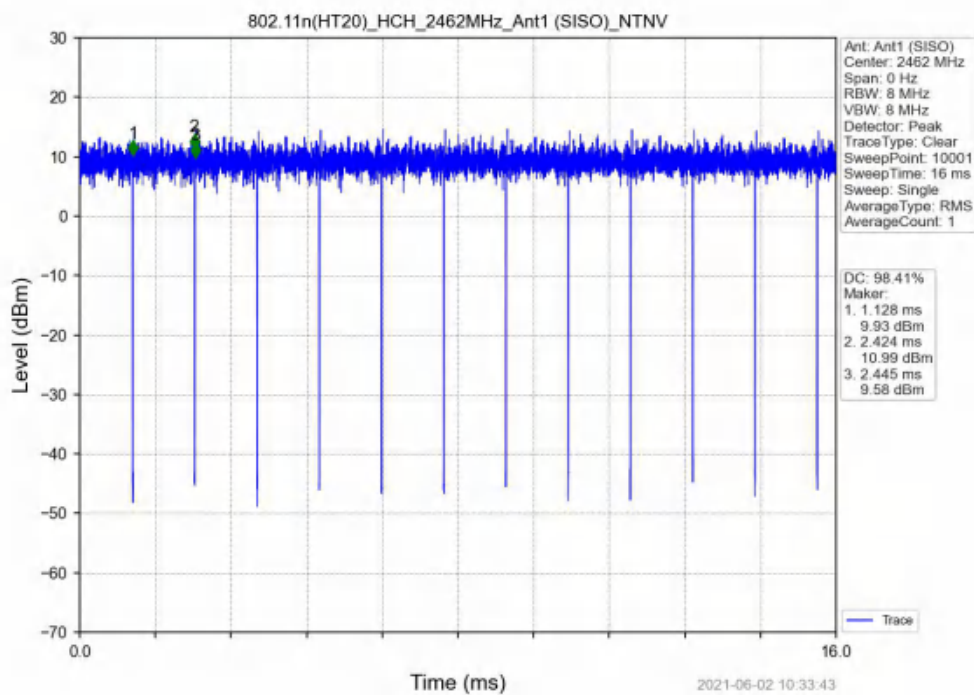
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



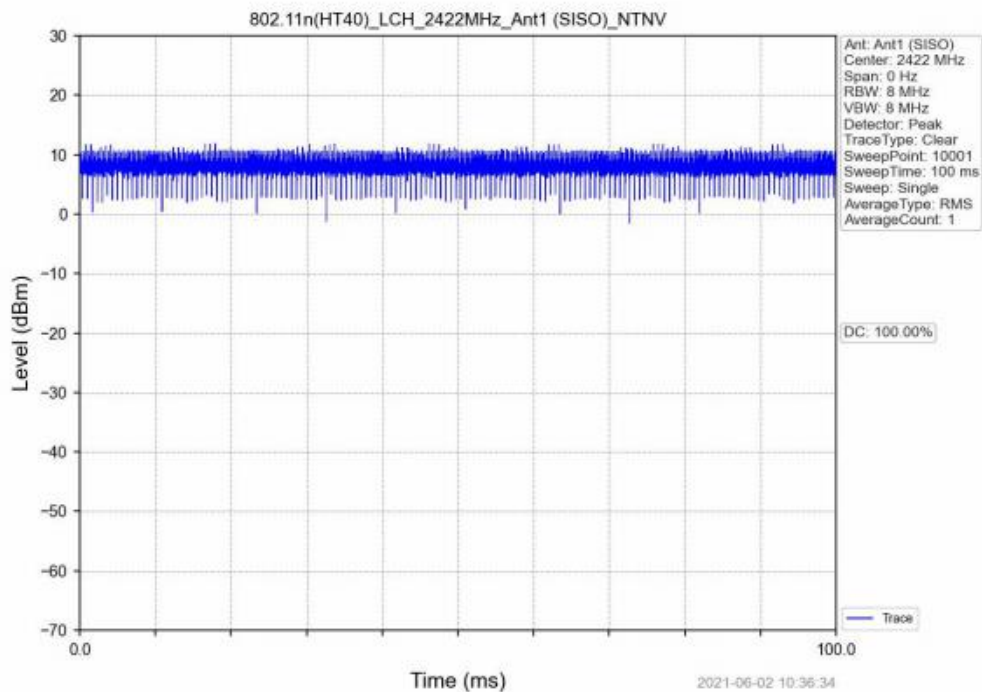
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



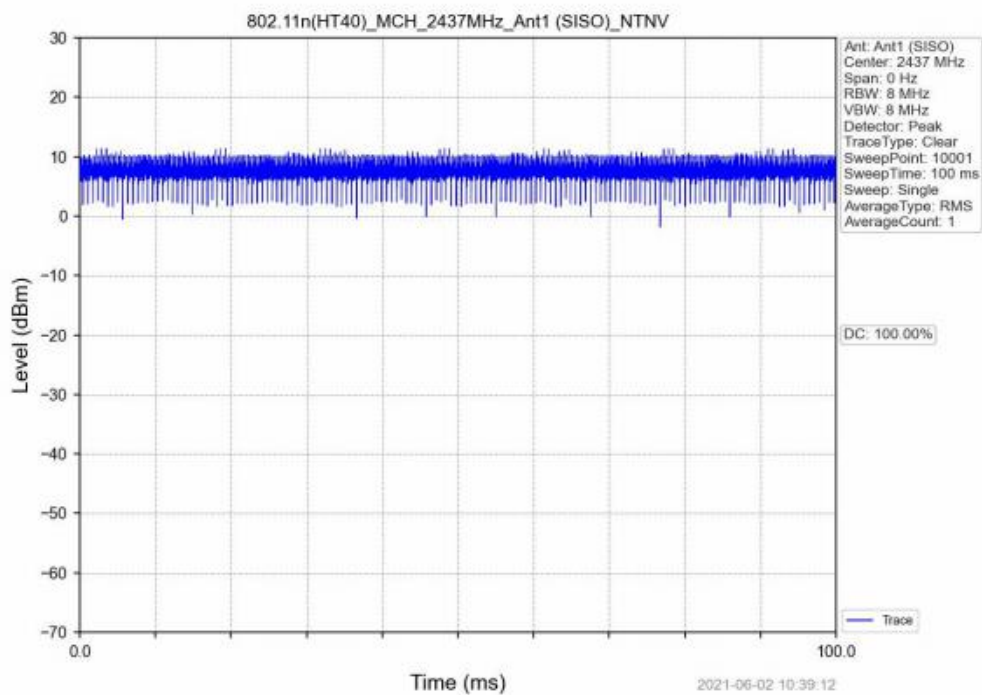
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



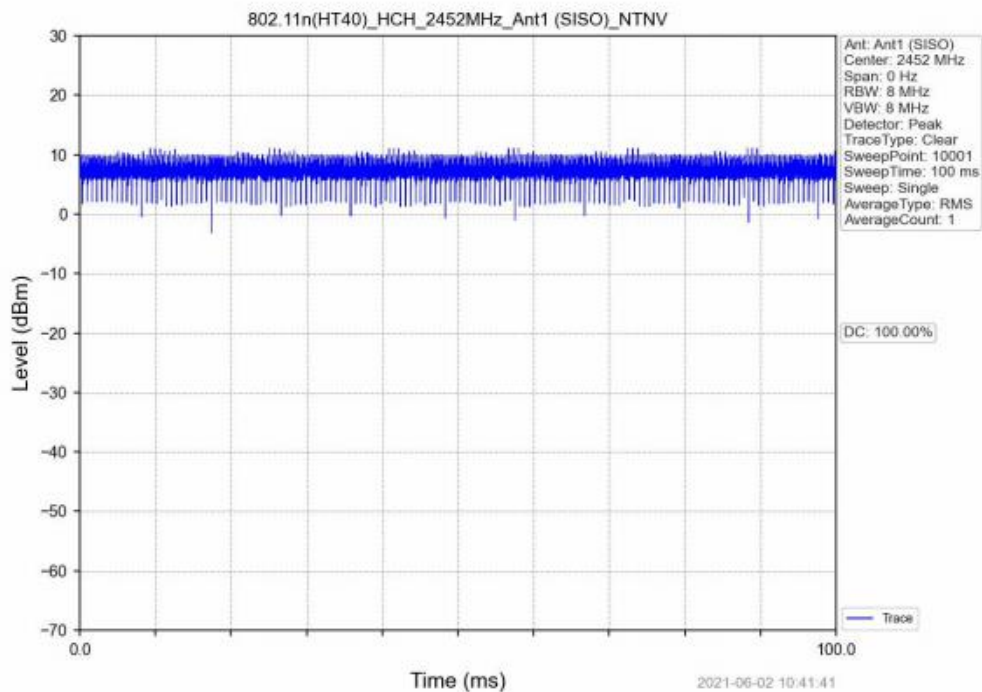
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

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2. Bandwidth

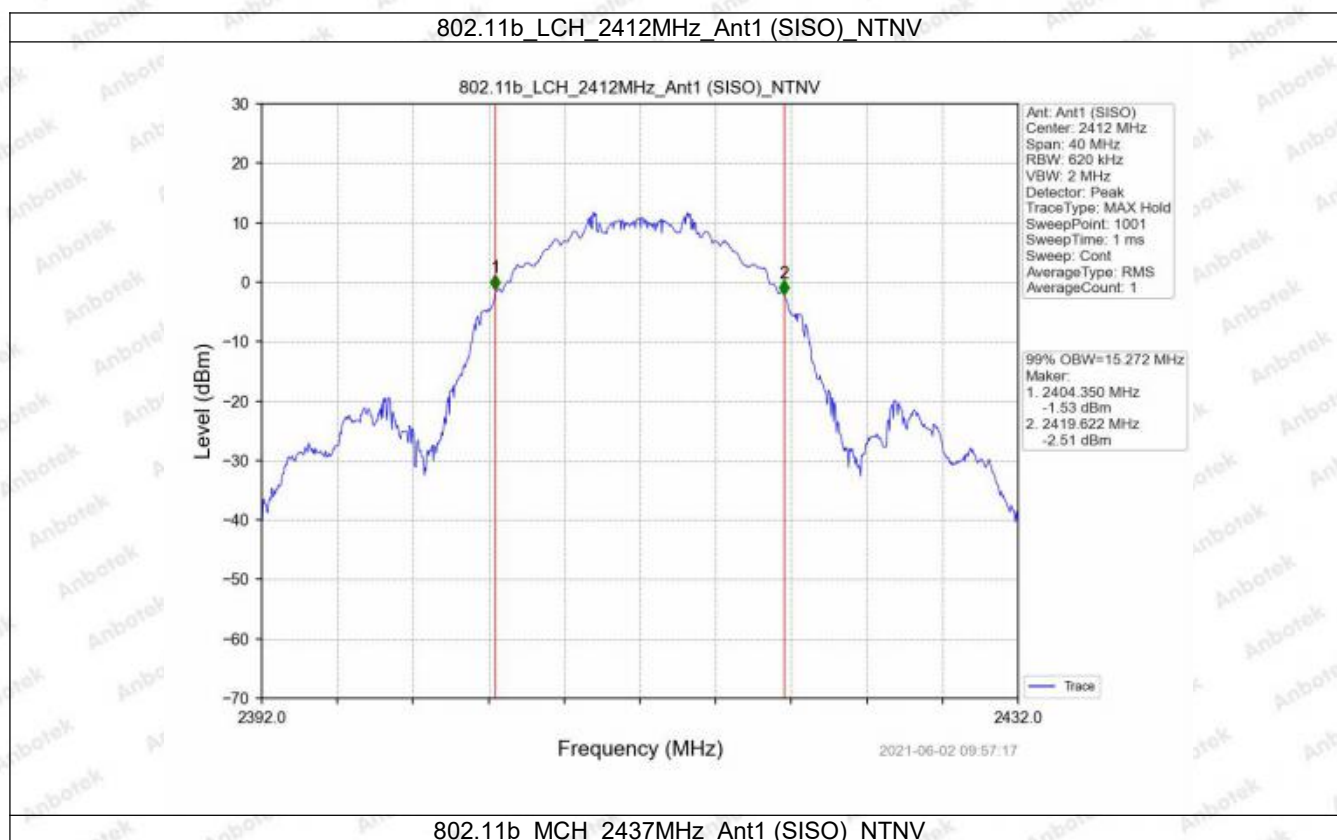
2.1 OBW

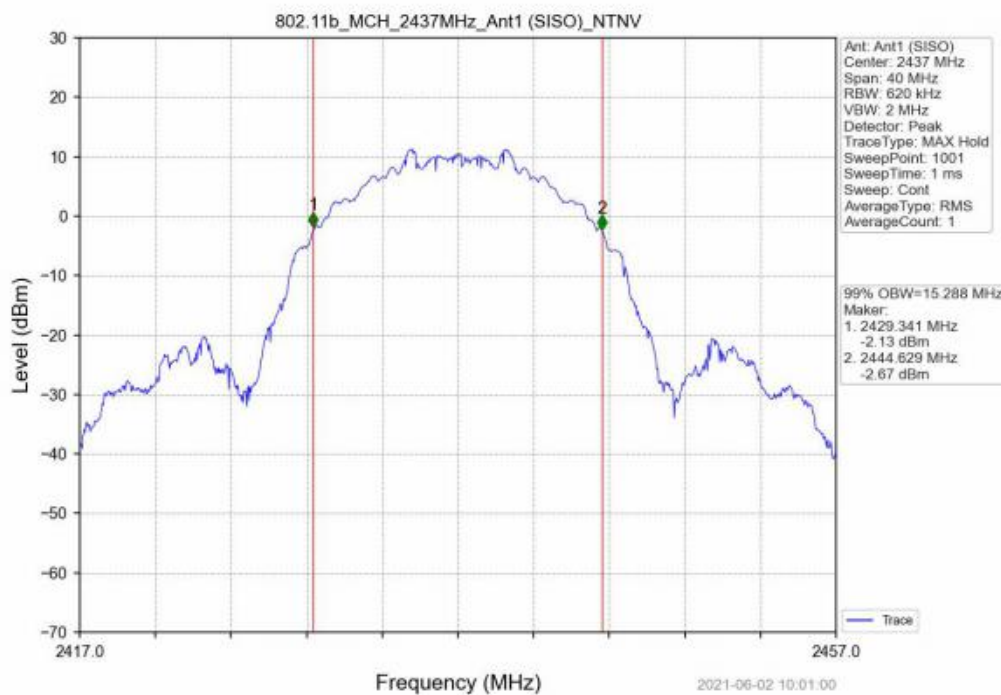
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	15.272	/	Note1
		2437	/	/	15.288	/	Note1
		2462	/	/	15.313	/	Note1
802.11g	SISO	2412	/	/	17.553	/	Note1
		2437	/	/	17.549	/	Note1
		2462	/	/	17.552	/	Note1
802.11n (HT20)	SISO	2412	/	/	18.438	/	Note1
		2437	/	/	18.429	/	Note1
		2462	/	/	18.434	/	Note1
802.11n (HT40)	SISO	2422	/	/	35.764	/	Note1
		2437	/	/	35.764	/	Note1
		2452	/	/	35.759	/	Note1

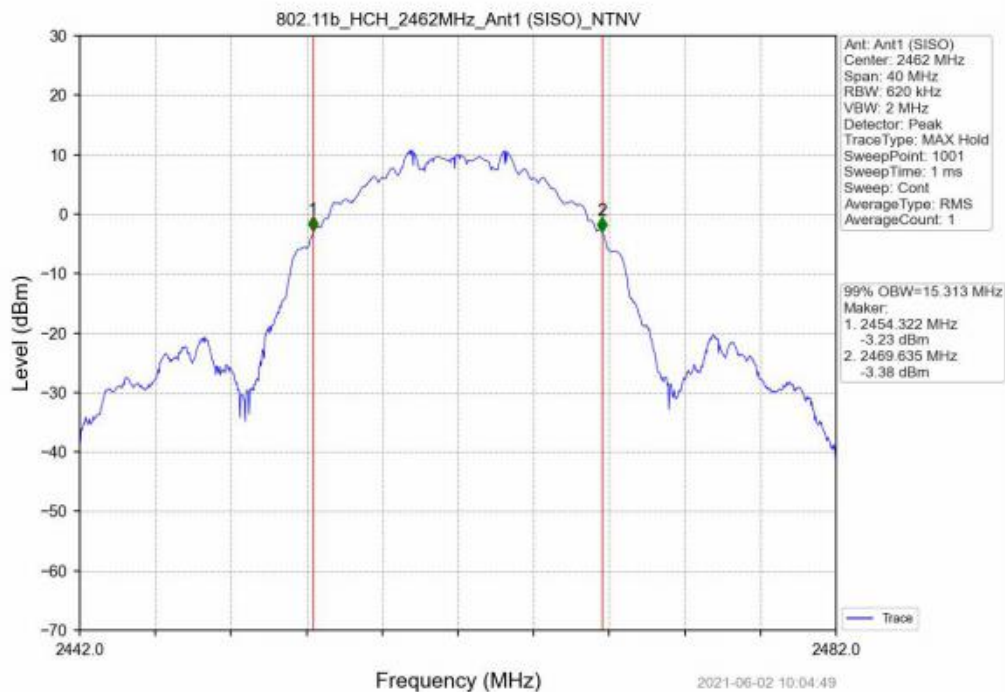
Note1: Only for Report Use

2.1.2 Test Graph

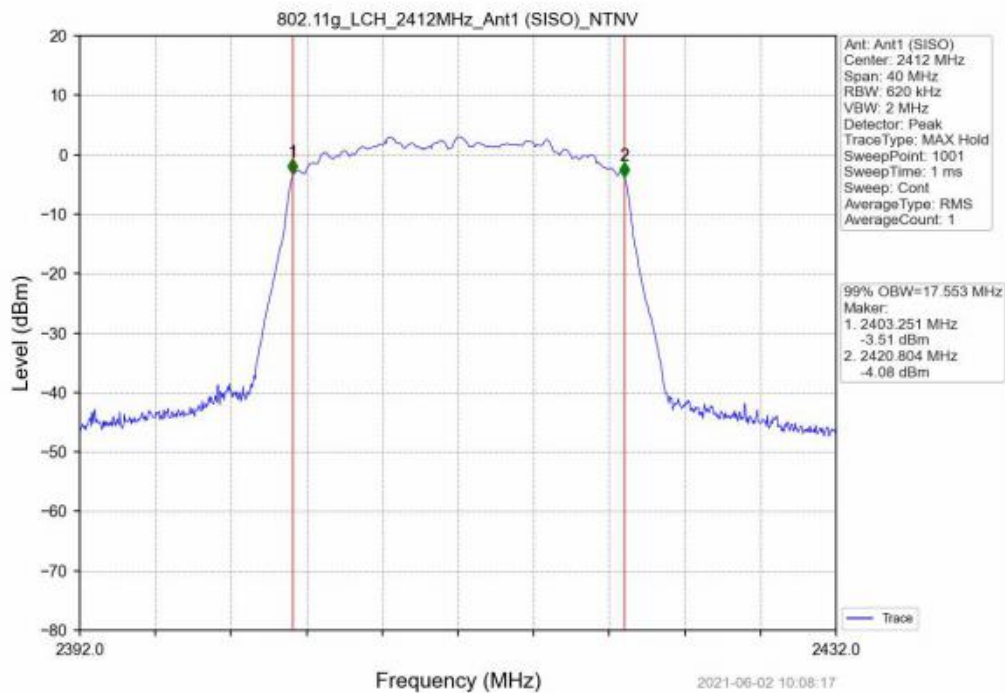




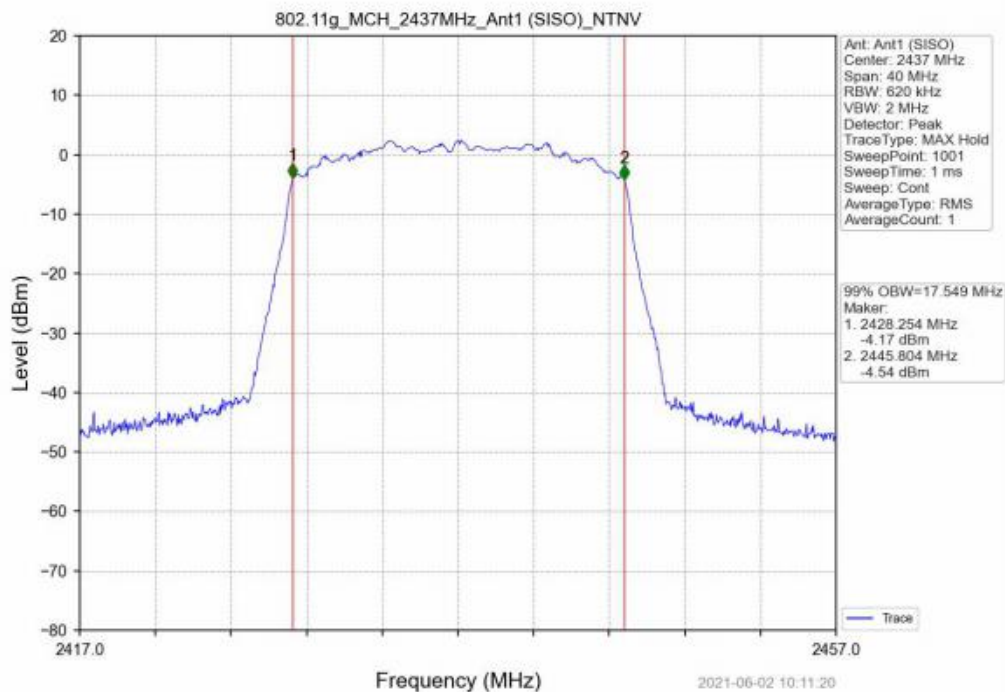
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



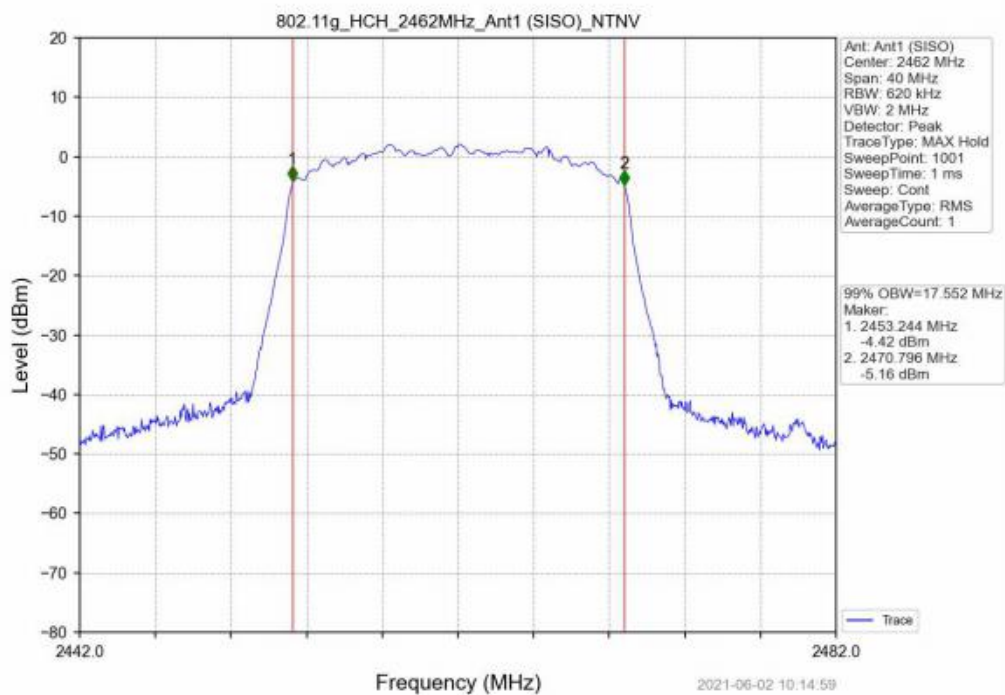
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



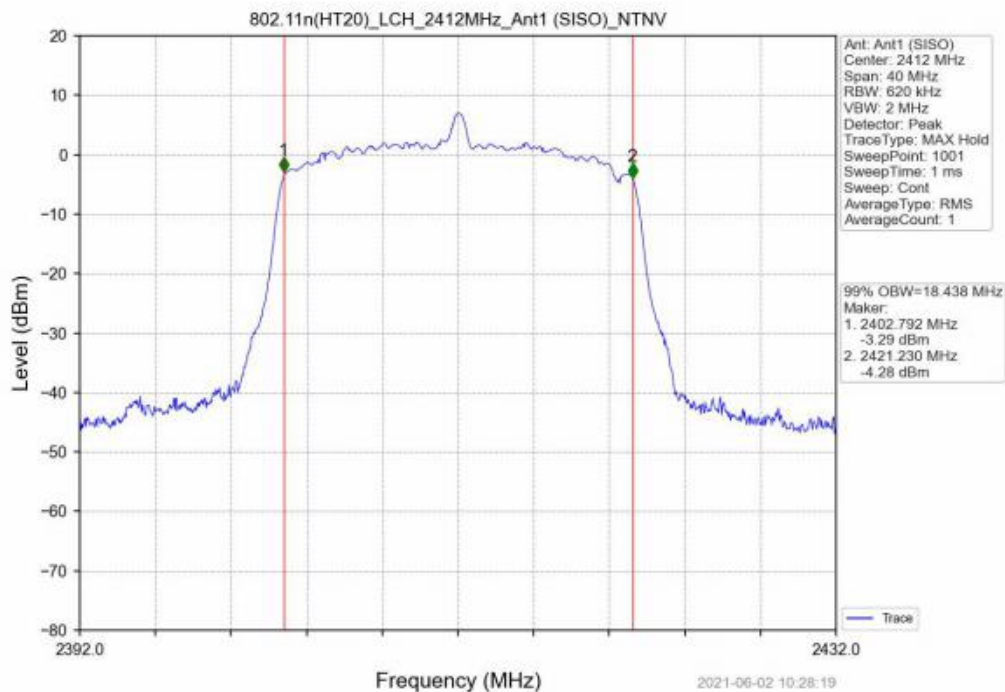
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



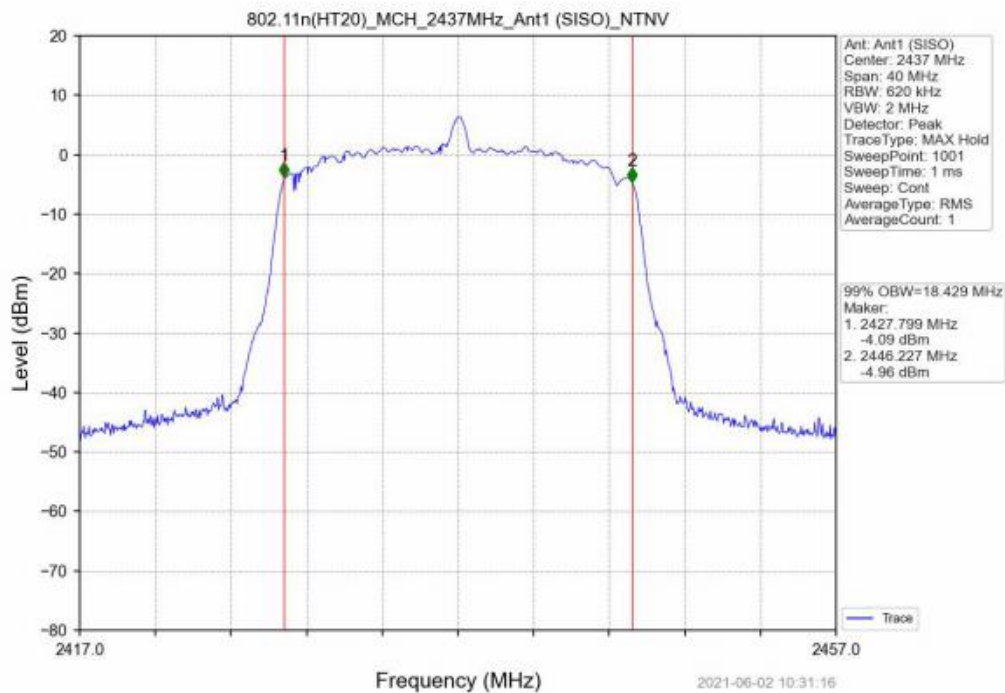
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



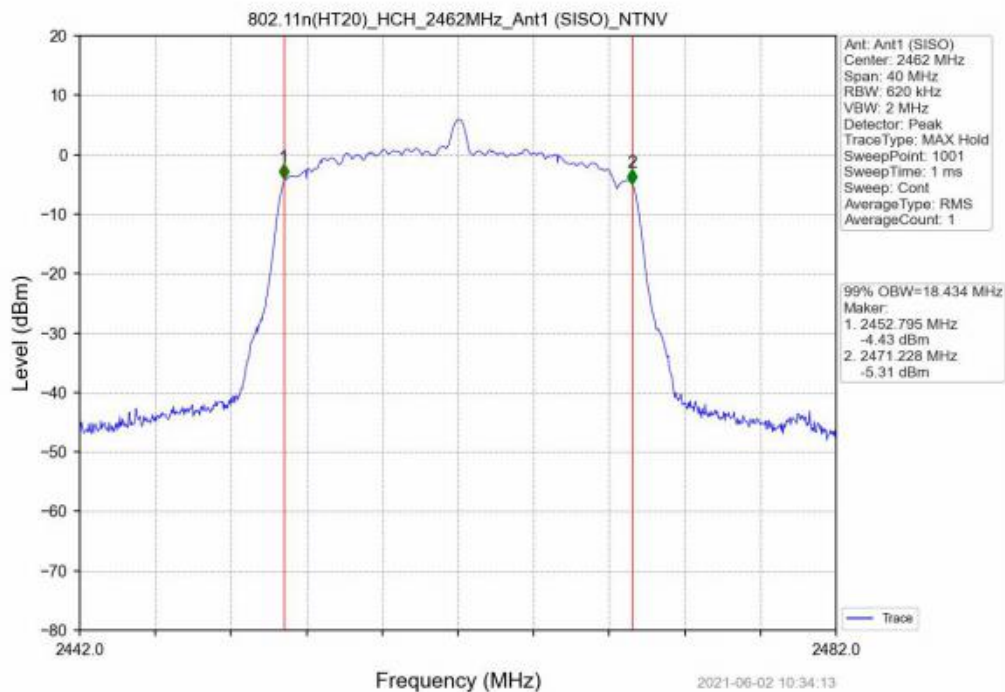
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



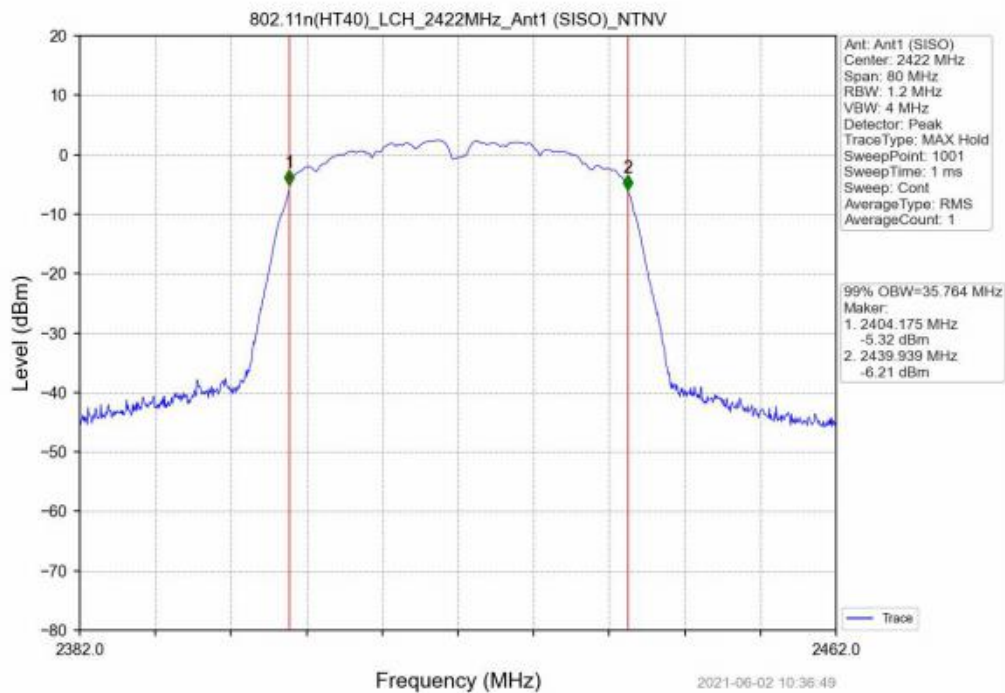
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



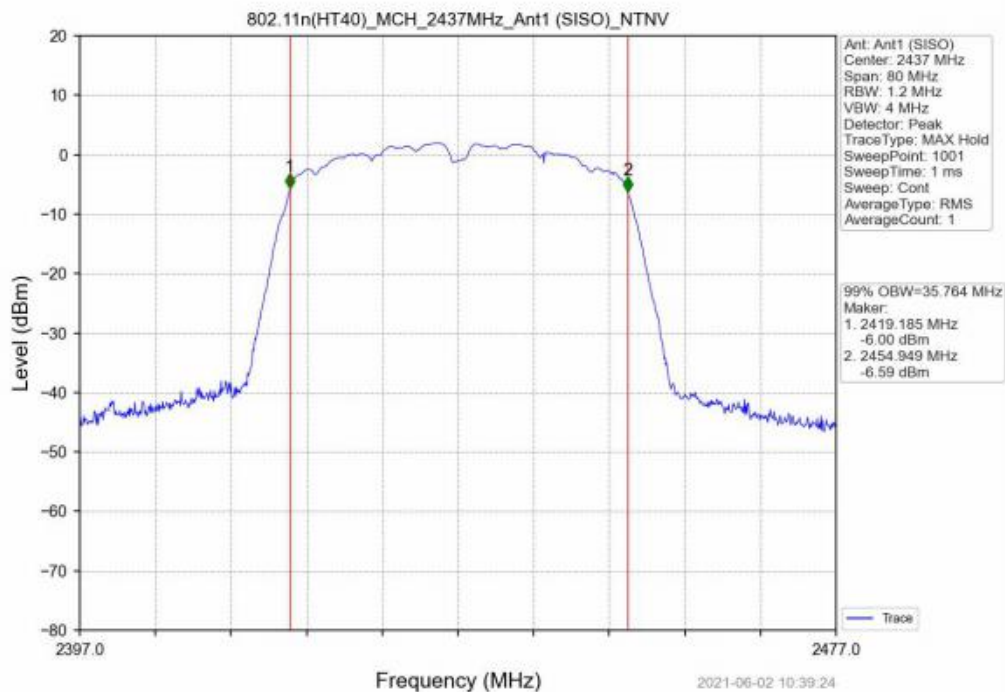
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



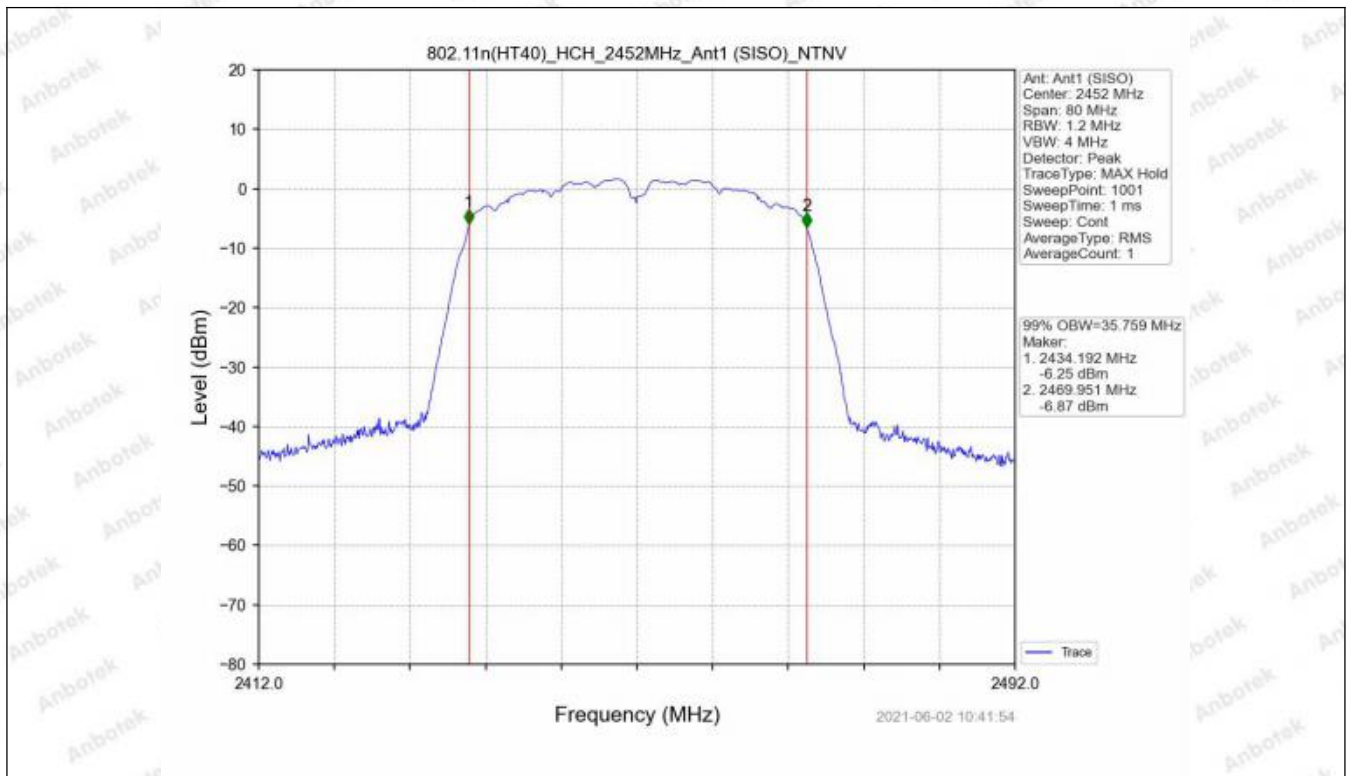
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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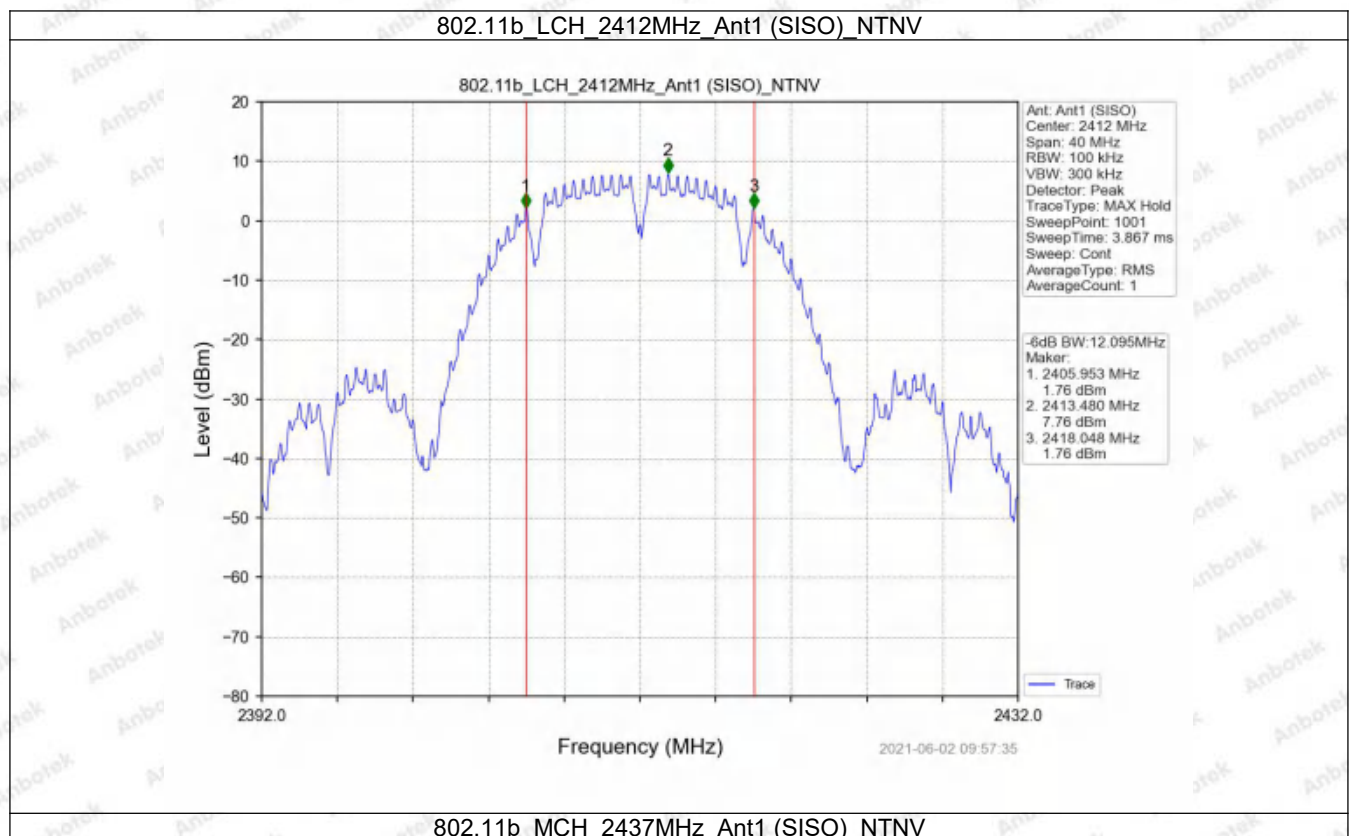
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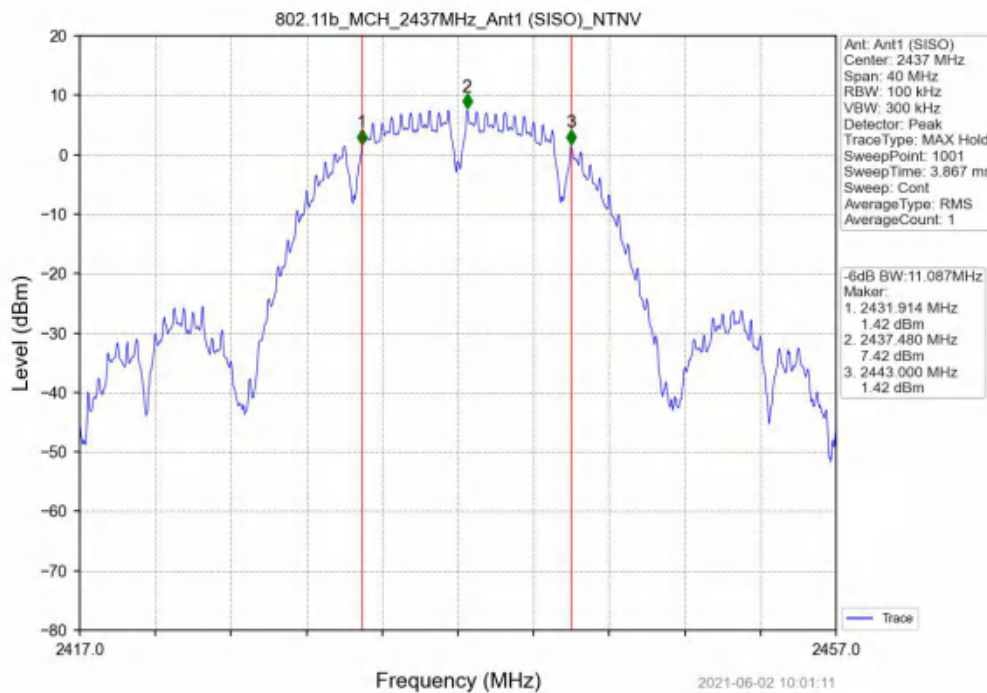
2.2 XDB

2.2.1 Test Result

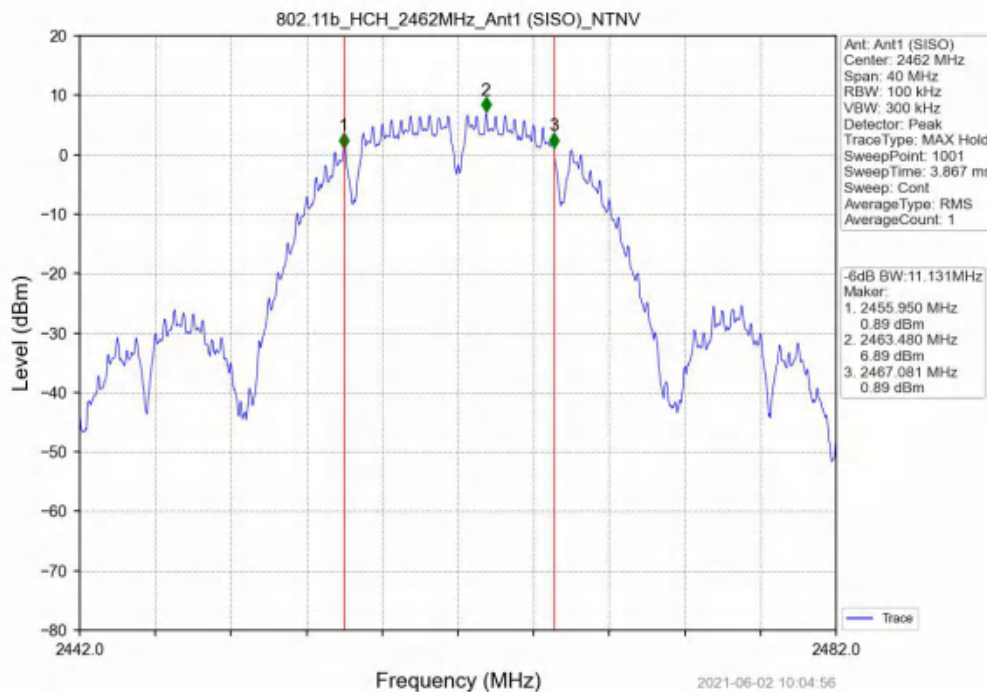
Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	12.095	≥ 0.5	Pass
		2437	/	/	11.087	≥ 0.5	Pass
		2462	/	/	11.131	≥ 0.5	Pass
802.11g	SISO	2412	/	/	15.181	≥ 0.5	Pass
		2437	/	/	15.179	≥ 0.5	Pass
		2462	/	/	15.179	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	15.027	≥ 0.5	Pass
		2437	/	/	13.829	≥ 0.5	Pass
		2462	/	/	15.029	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	/	/	35.109	≥ 0.5	Pass
		2437	/	/	35.114	≥ 0.5	Pass
		2452	/	/	35.108	≥ 0.5	Pass

2.2.2 Test Graph

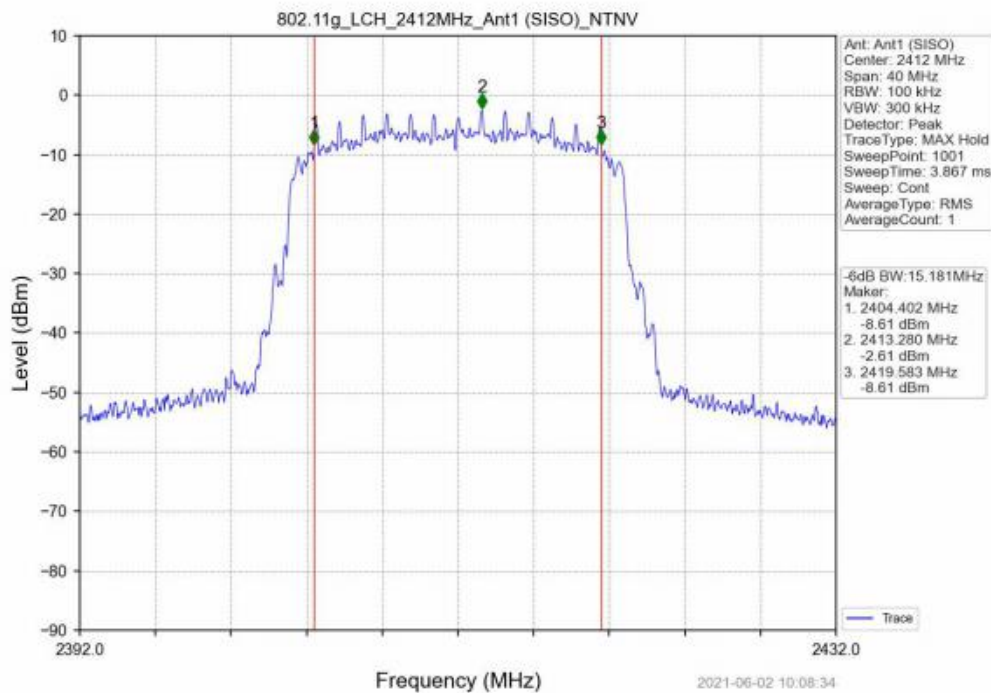




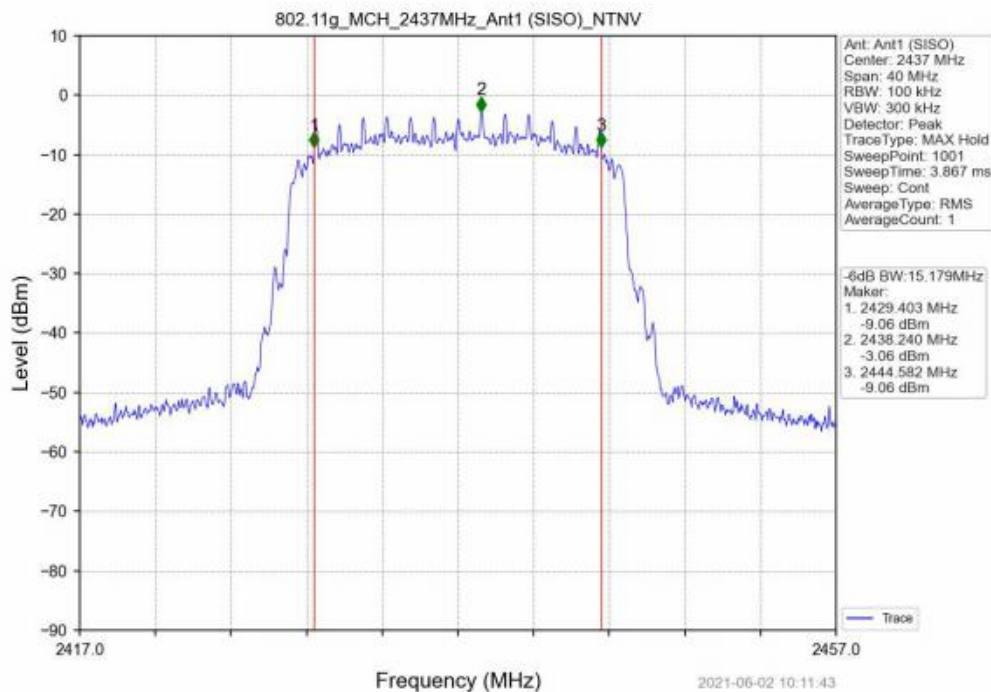
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



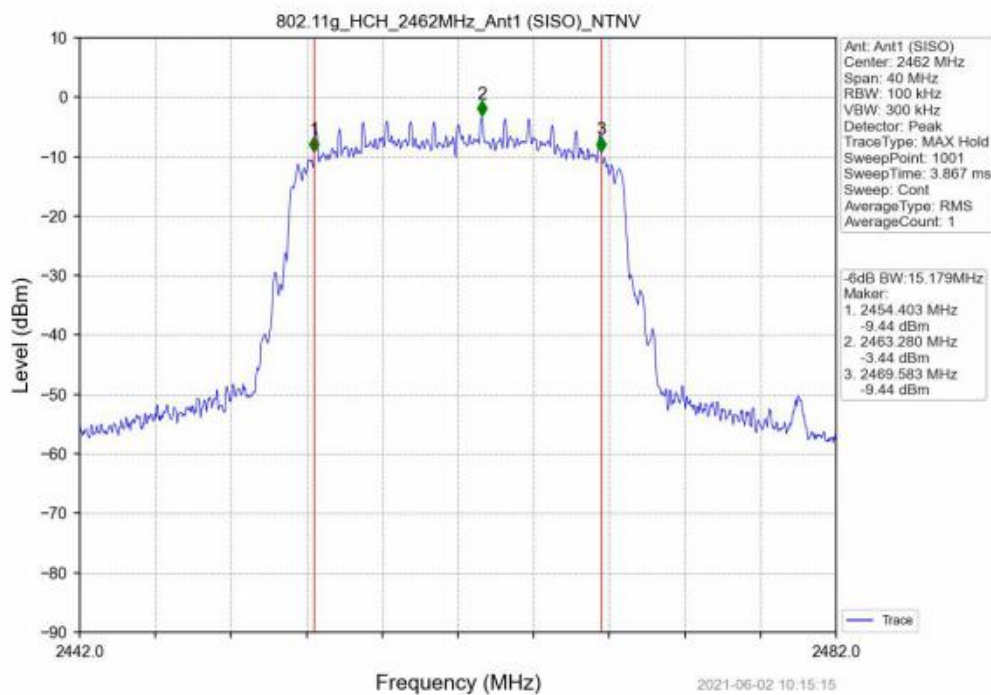
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



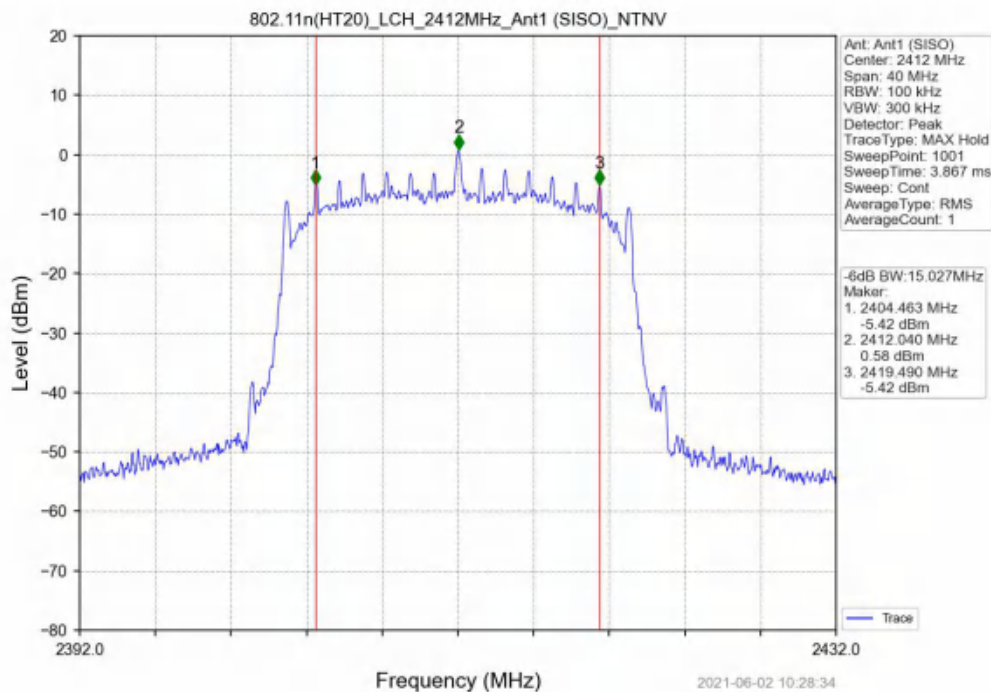
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



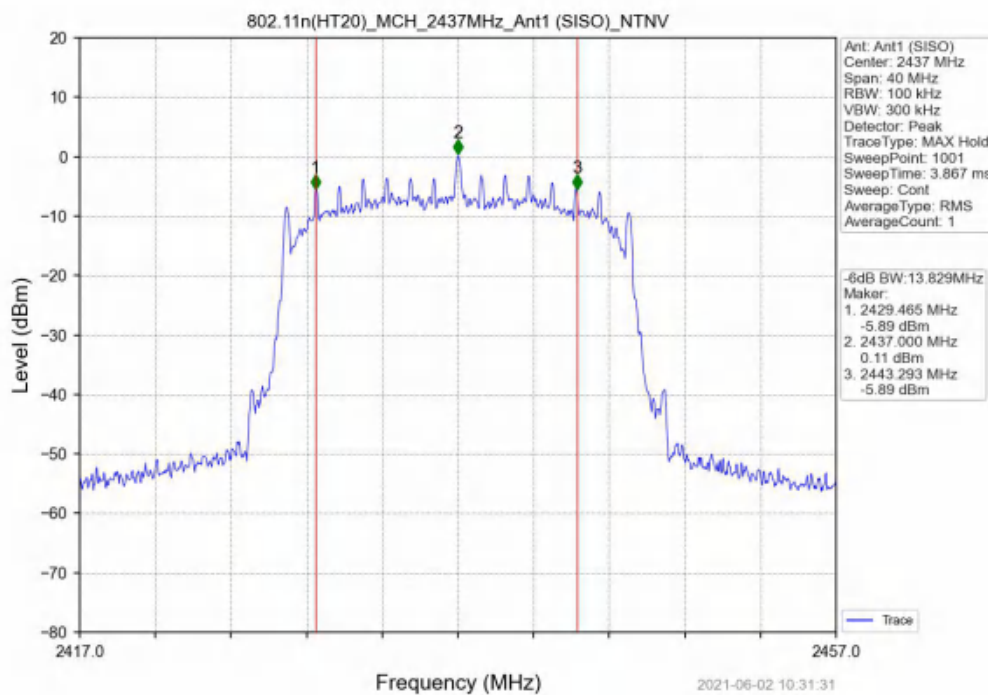
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



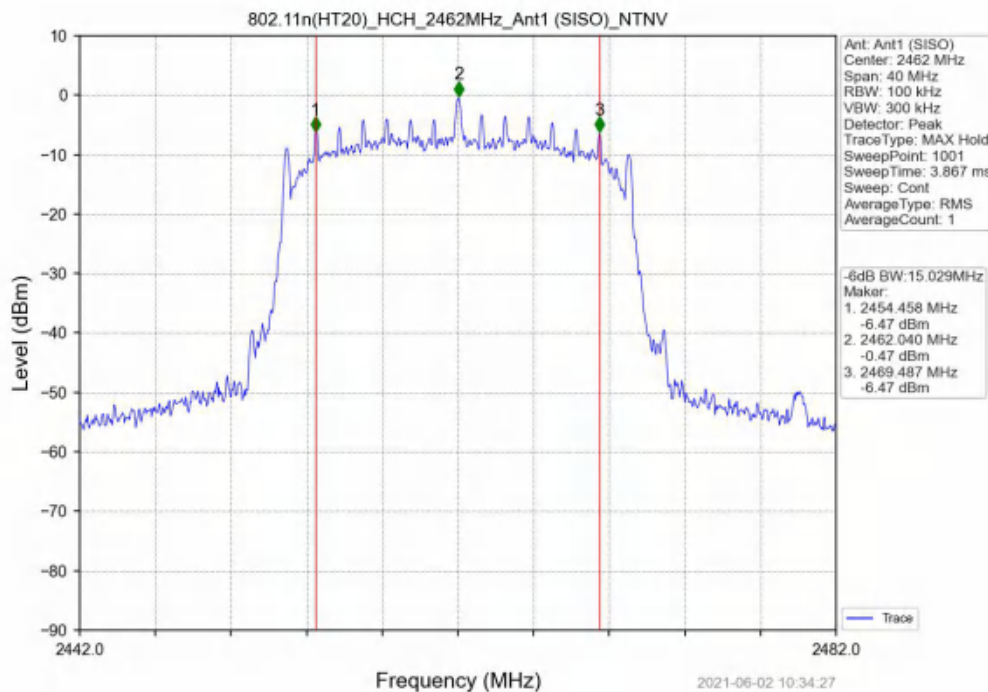
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



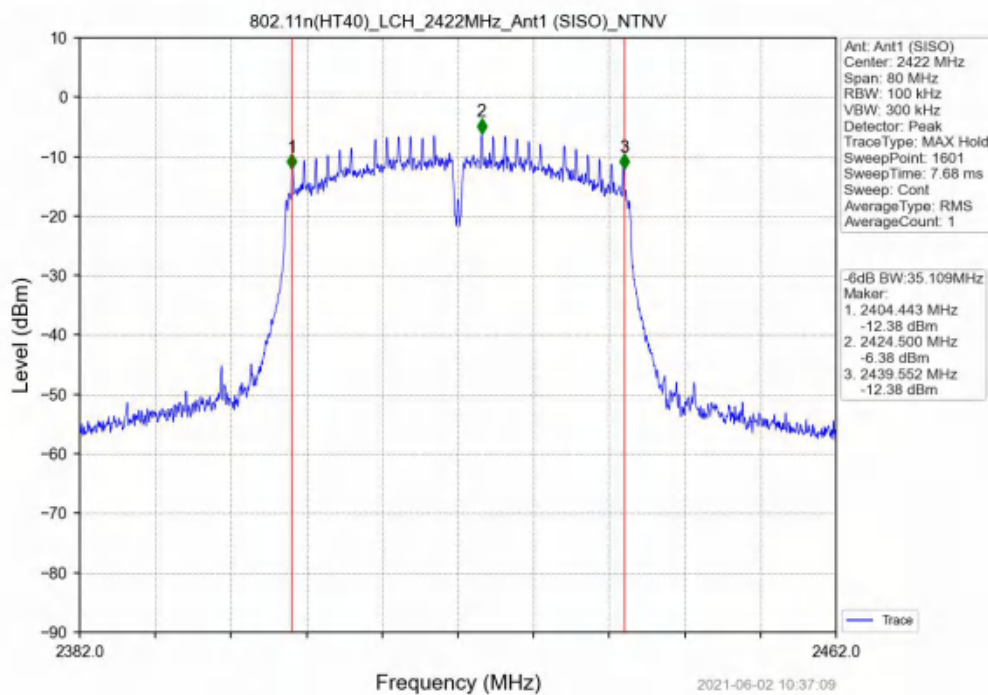
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



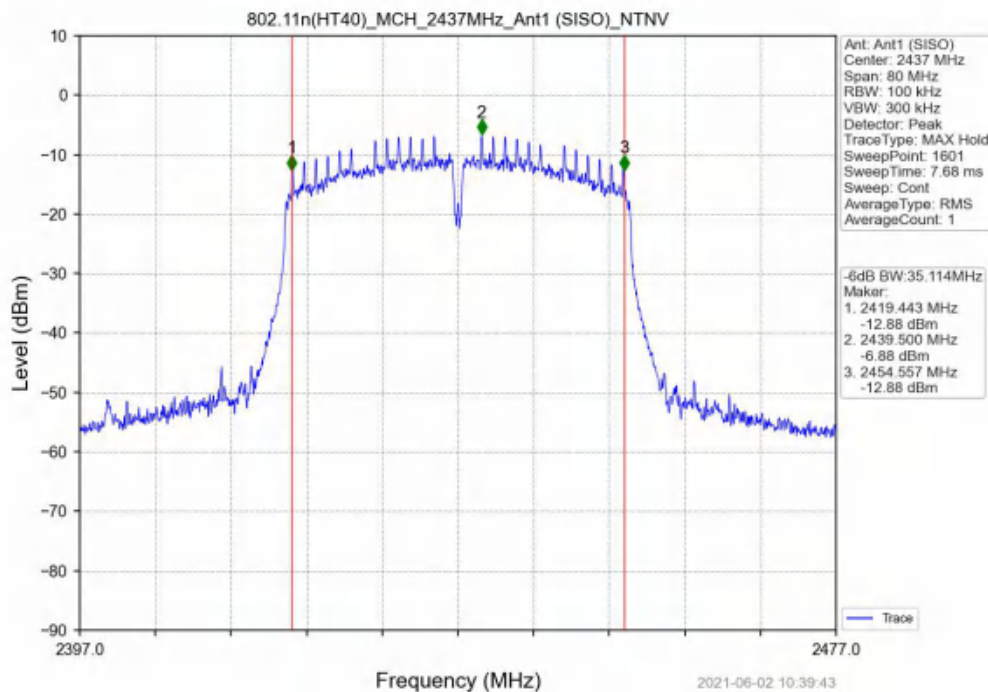
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



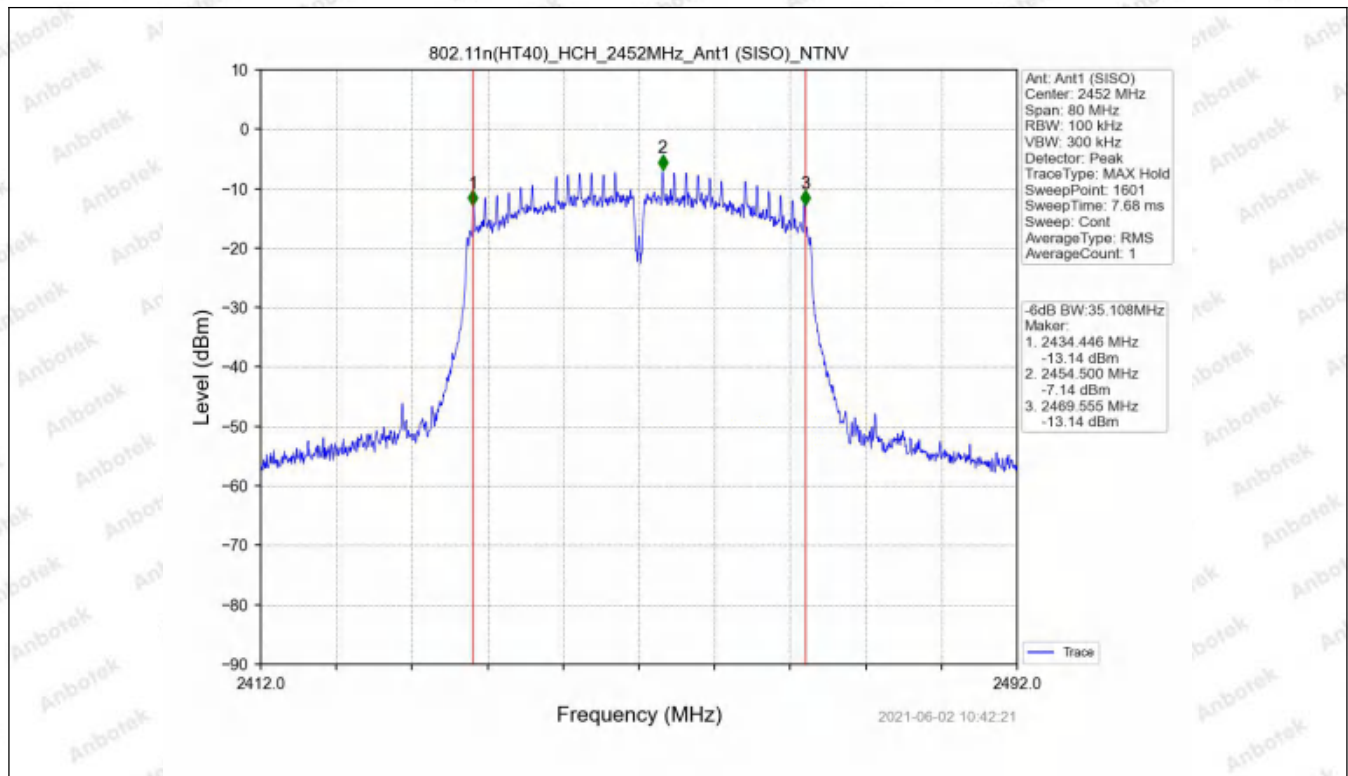
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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	/	/	20.95	<=30	Pass
		2437	/	/	20.70	<=30	Pass
		2462	/	/	20.12	<=30	Pass
802.11g	SISO	2412	/	/	15.45	<=30	Pass
		2437	/	/	14.98	<=30	Pass
		2462	/	/	14.63	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.65	<=30	Pass
		2437	/	/	15.11	<=30	Pass
		2462	/	/	14.65	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	14.18	<=30	Pass
		2437	/	/	13.80	<=30	Pass
		2452	/	/	13.39	<=30	Pass

Note1: Antenna Gain: 0 dBi;

4. Maximum Power Spectral Density

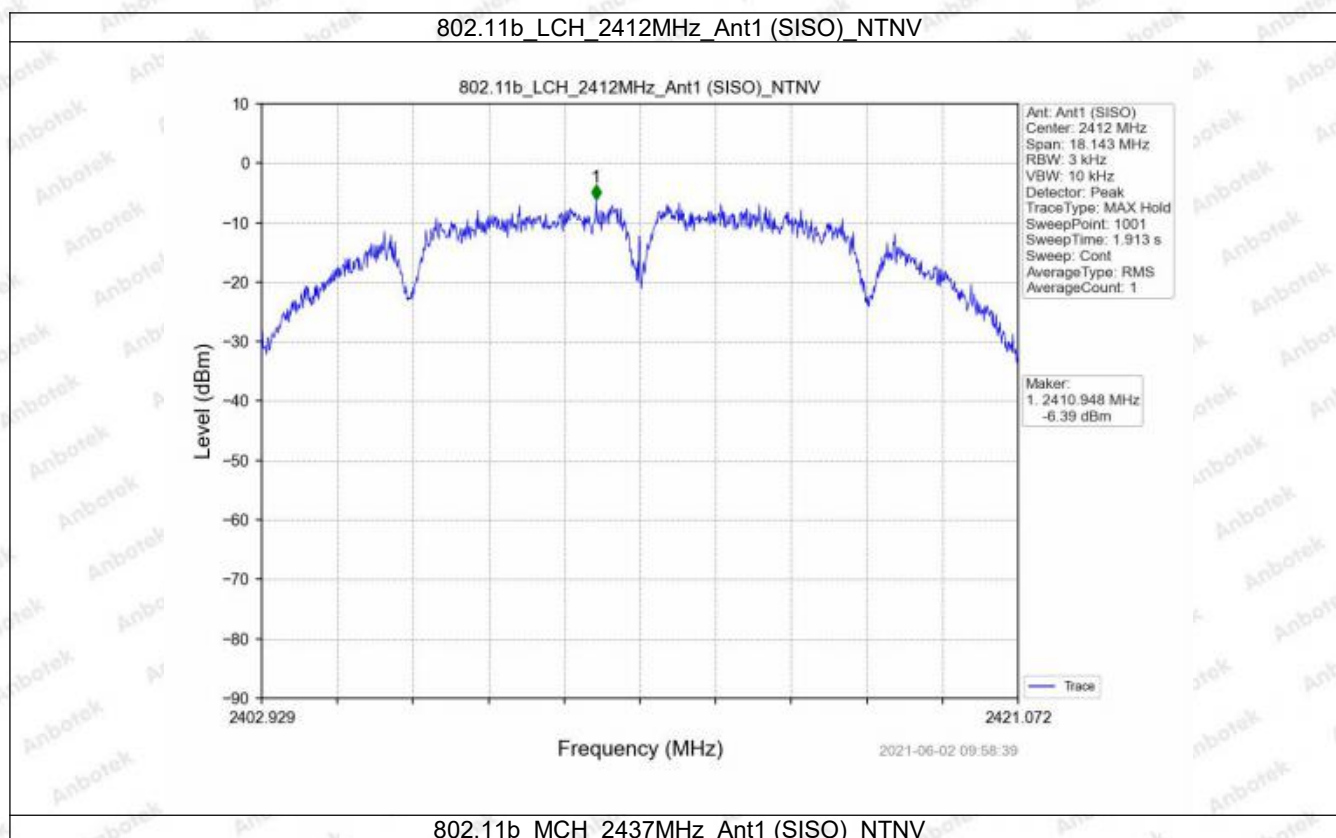
4.1 PSD

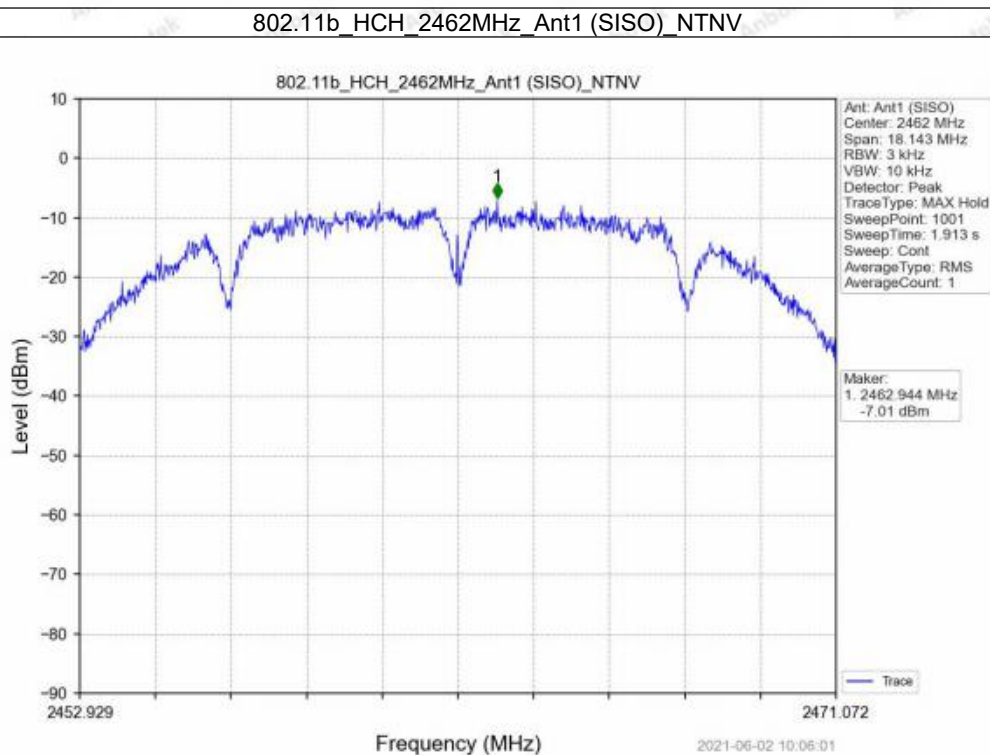
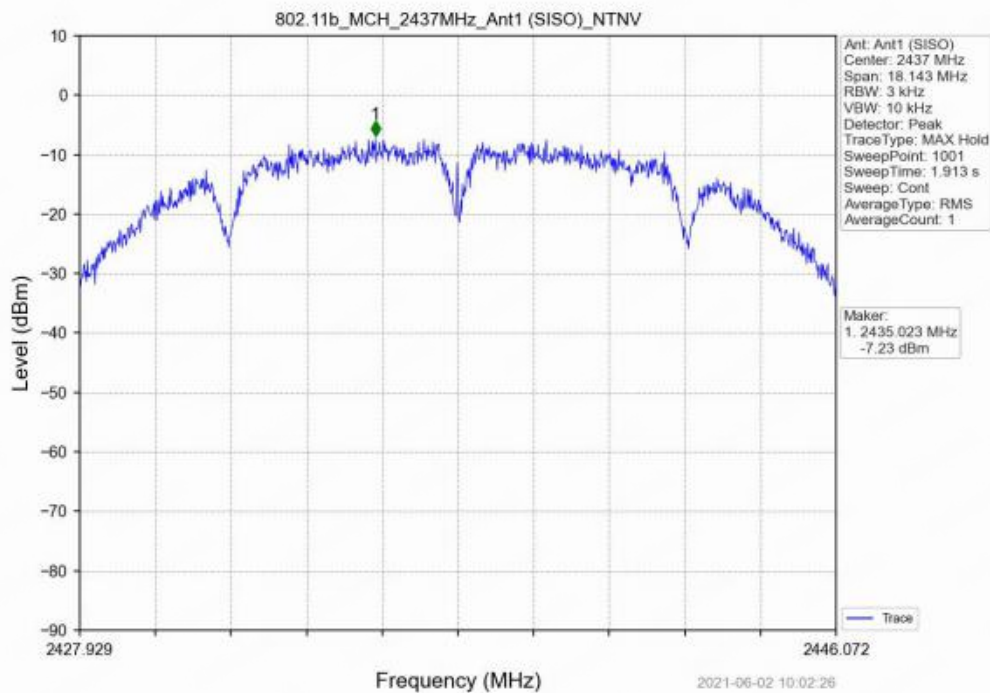
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	-6.39	<=8	Pass
		2437	/	/	-7.23	<=8	Pass
		2462	/	/	-7.01	<=8	Pass
802.11g	SISO	2412	/	/	-16.74	<=8	Pass
		2437	/	/	-16.97	<=8	Pass
		2462	/	/	-18.03	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-16.32	<=8	Pass
		2437	/	/	-17.57	<=8	Pass
		2462	/	/	-17.30	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-20.87	<=8	Pass
		2437	/	/	-21.41	<=8	Pass
		2452	/	/	-21.86	<=8	Pass

Note1: Antenna Gain: 0 dBi;

4.1.2 Test Graph





802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

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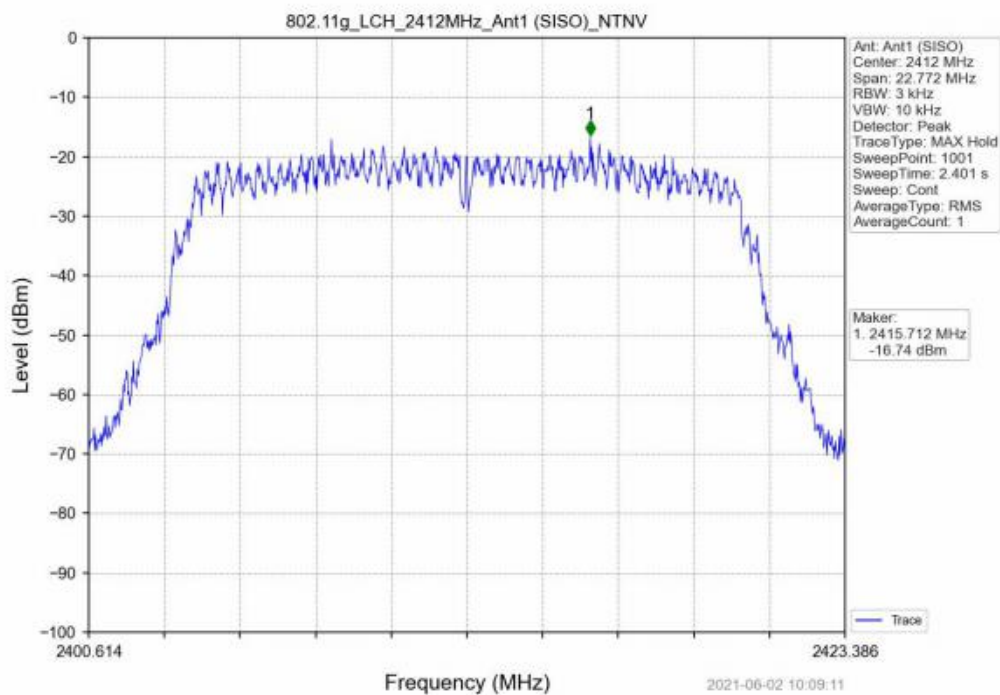
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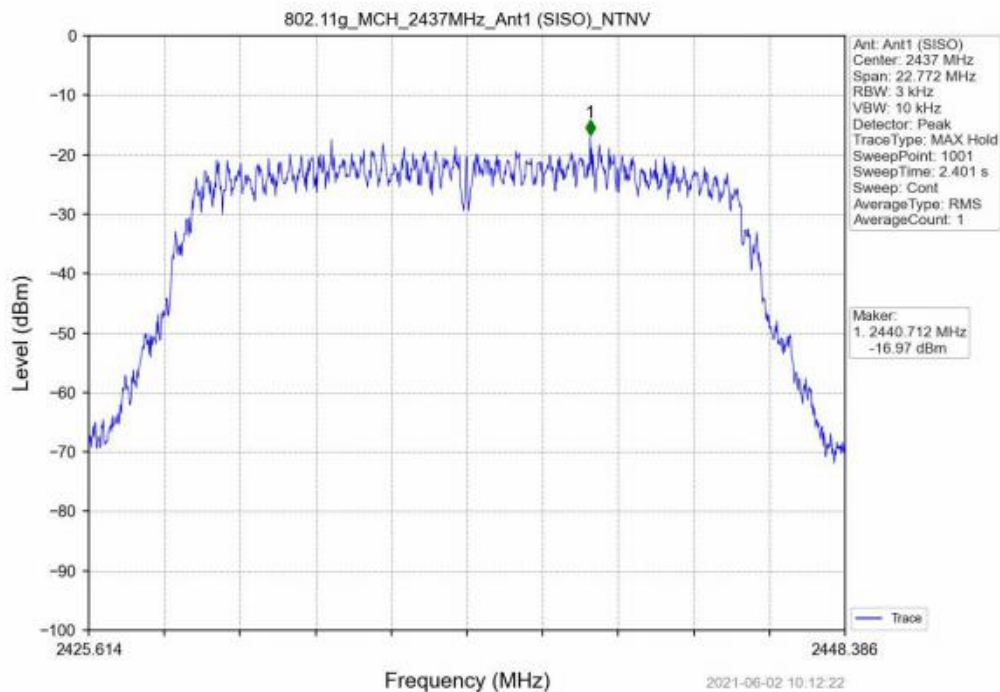
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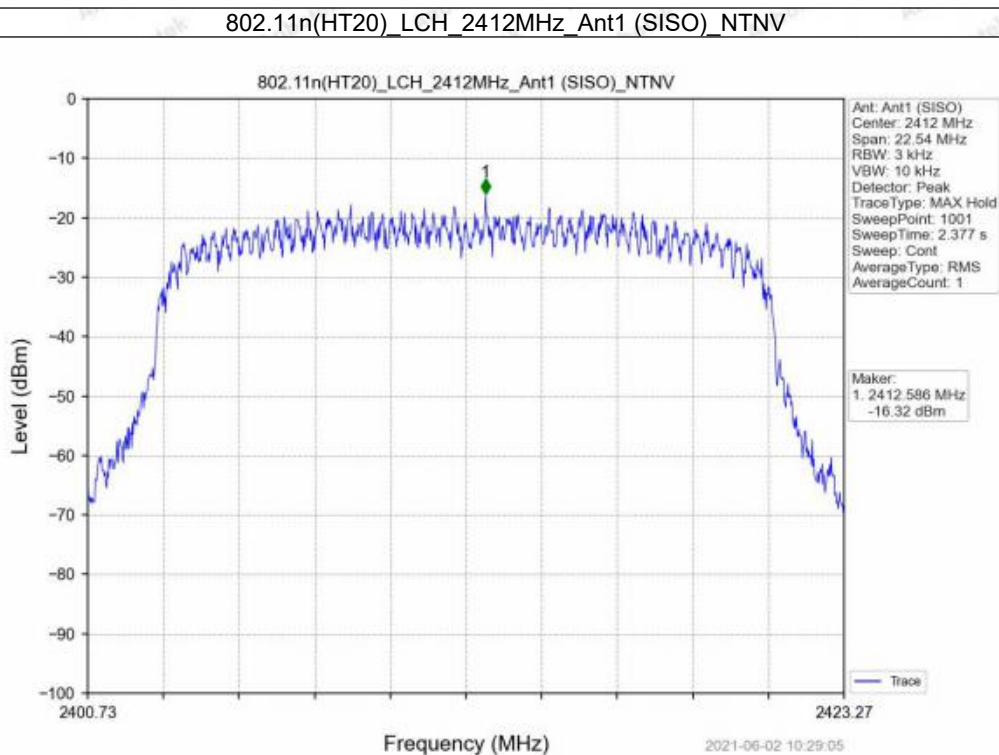
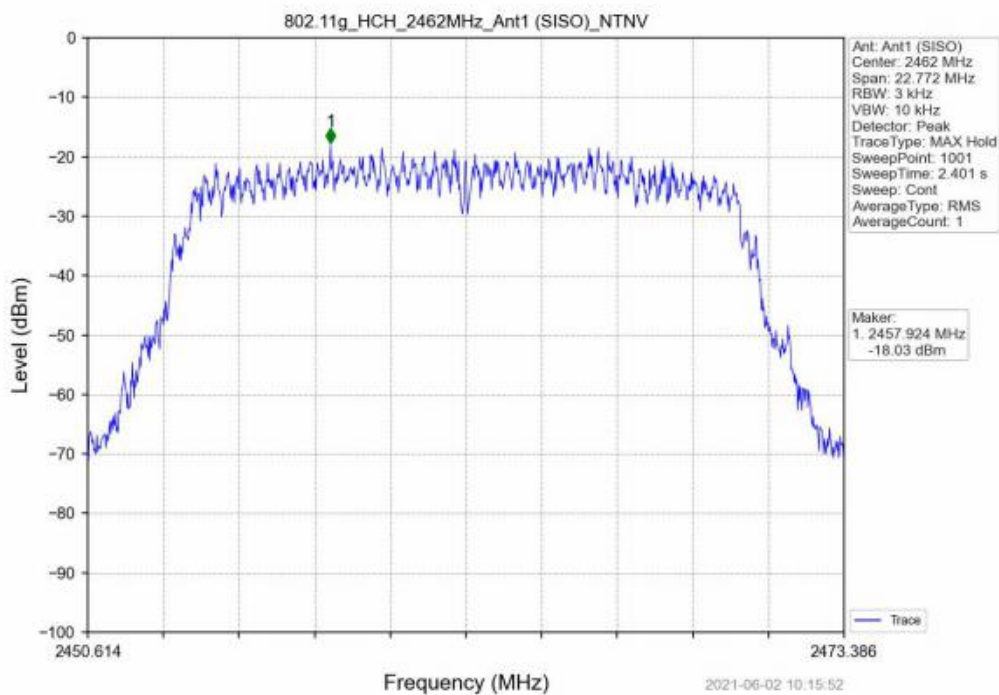
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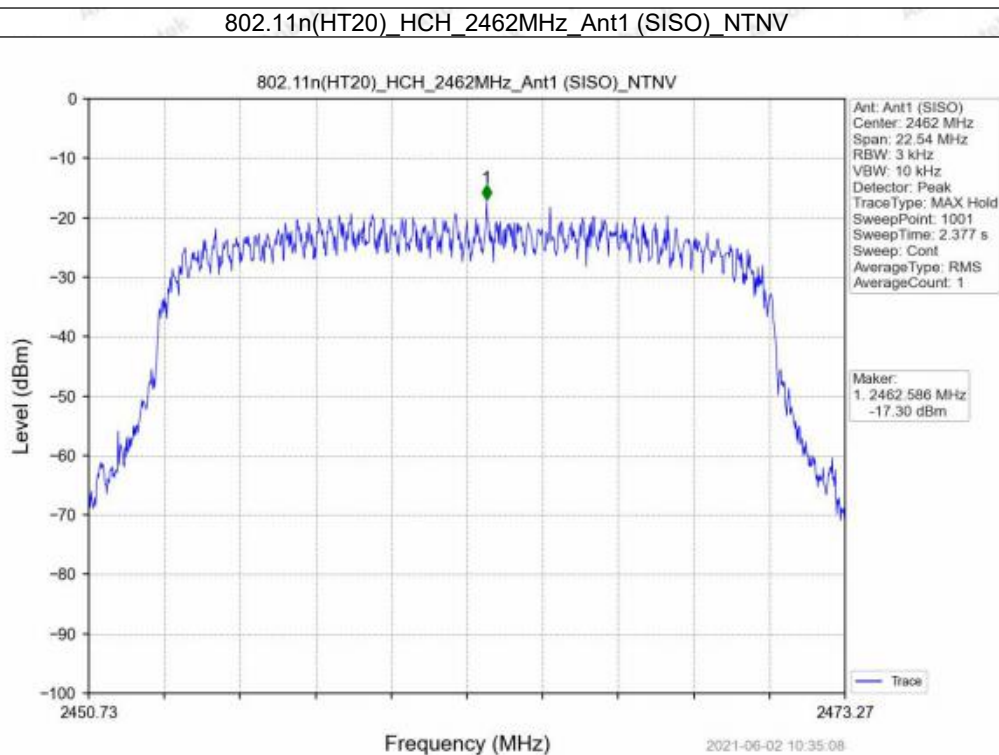
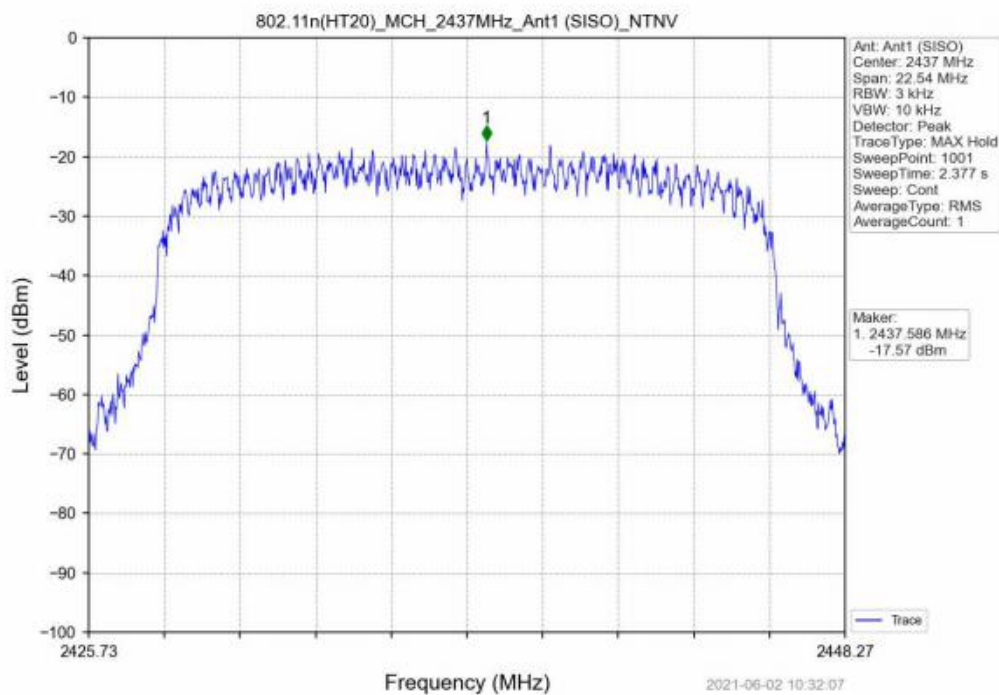
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



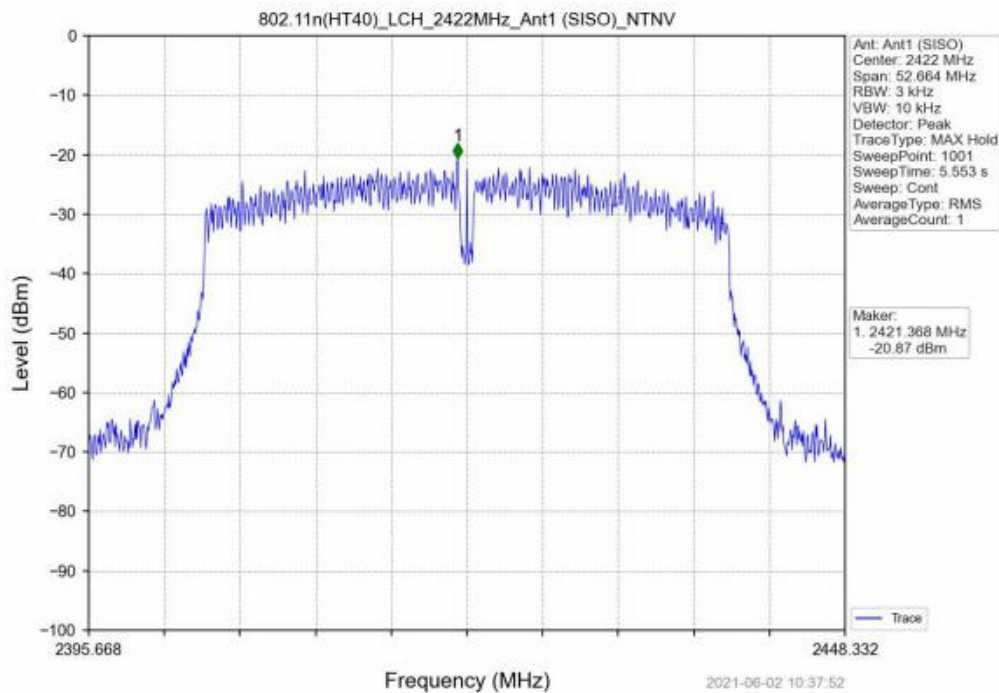
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



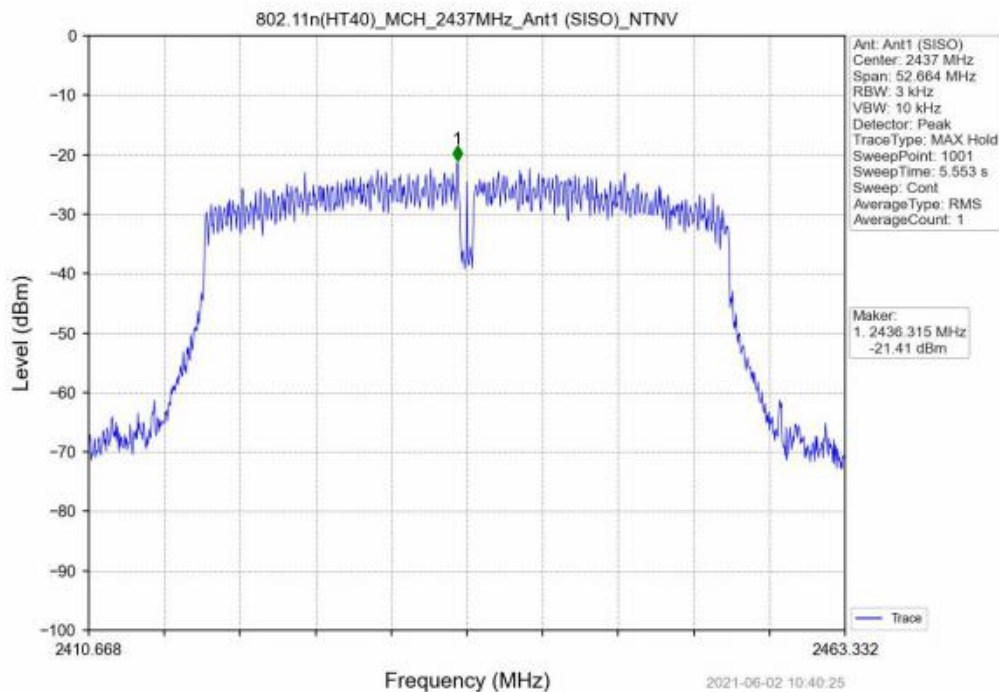
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



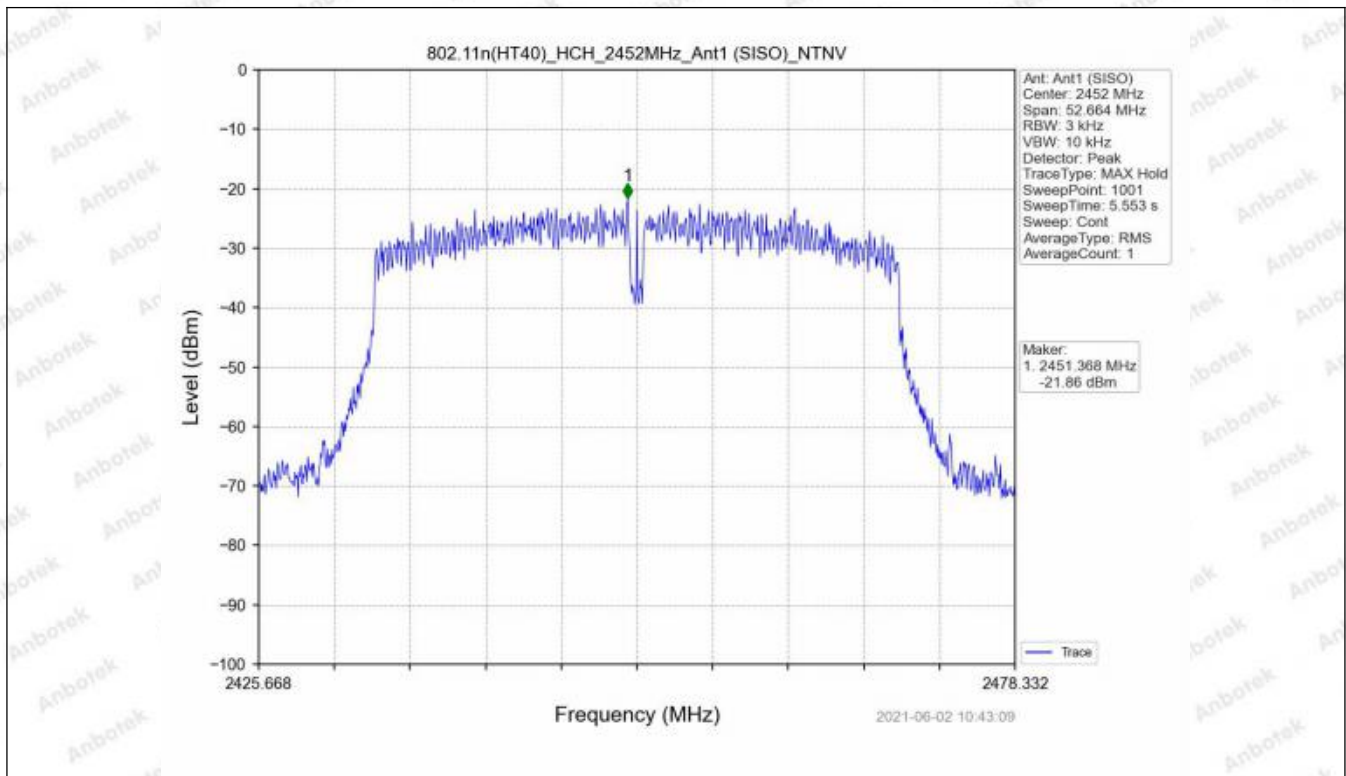
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

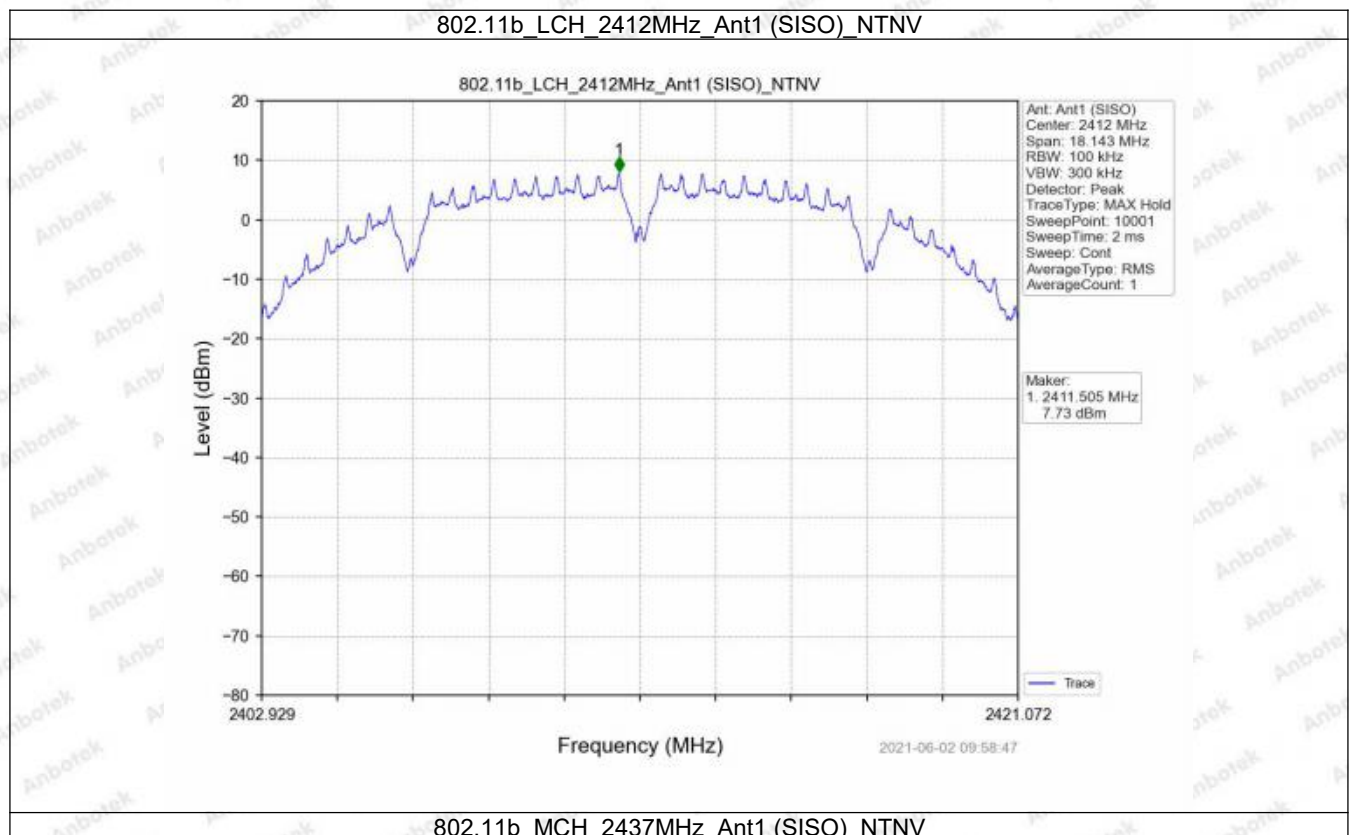
5.1 Ref

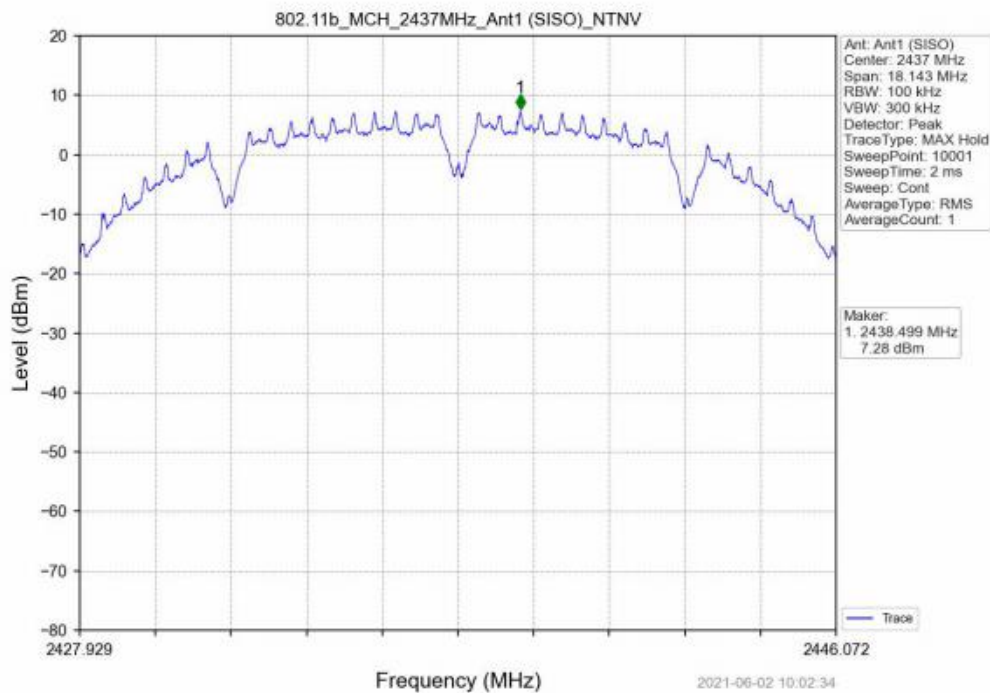
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	7.73	/	/
		2437	/	/	1	7.28	/	/
		2462	/	/	1	6.85	/	/
802.11g	SISO	2412	/	/	1	-2.73	/	/
		2437	/	/	1	-3.35	/	/
		2462	/	/	1	-3.70	/	/
802.11n (HT20)	SISO	2412	/	/	1	0.31	/	/
		2437	/	/	1	-0.38	/	/
		2462	/	/	1	-0.68	/	/
802.11n (HT40)	SISO	2422	/	/	1	-6.46	/	/
		2437	/	/	1	-6.90	/	/
		2452	/	/	1	-7.32	/	/

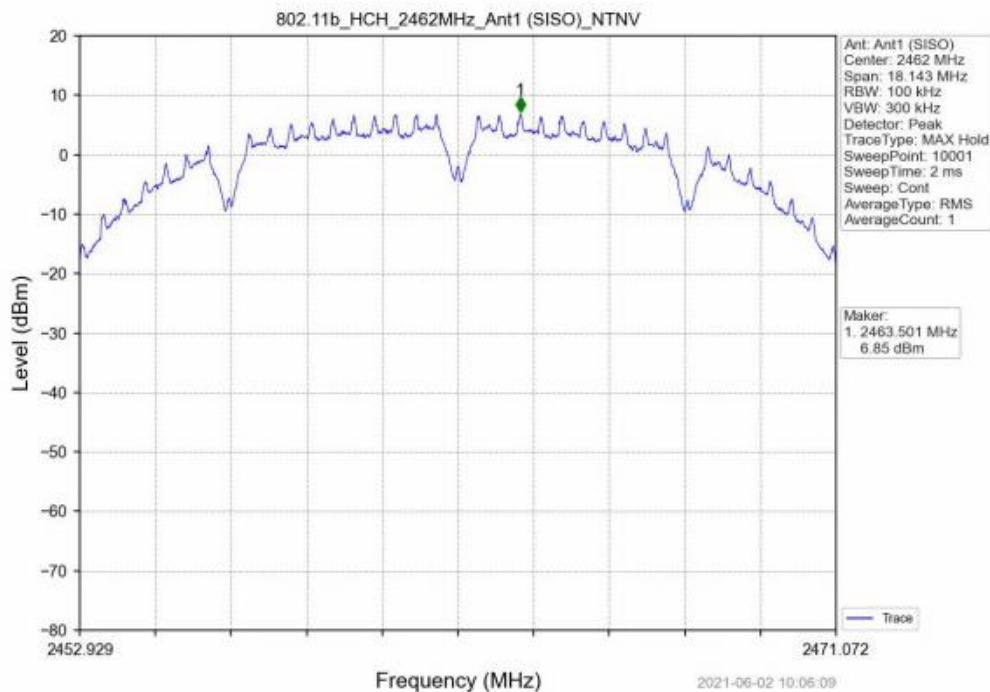
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

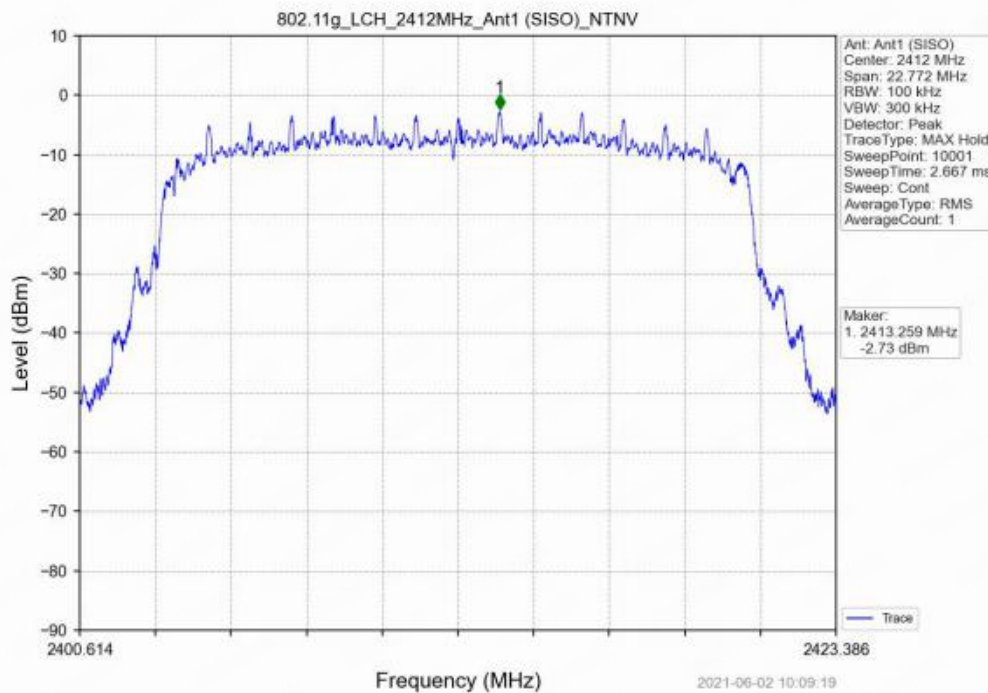




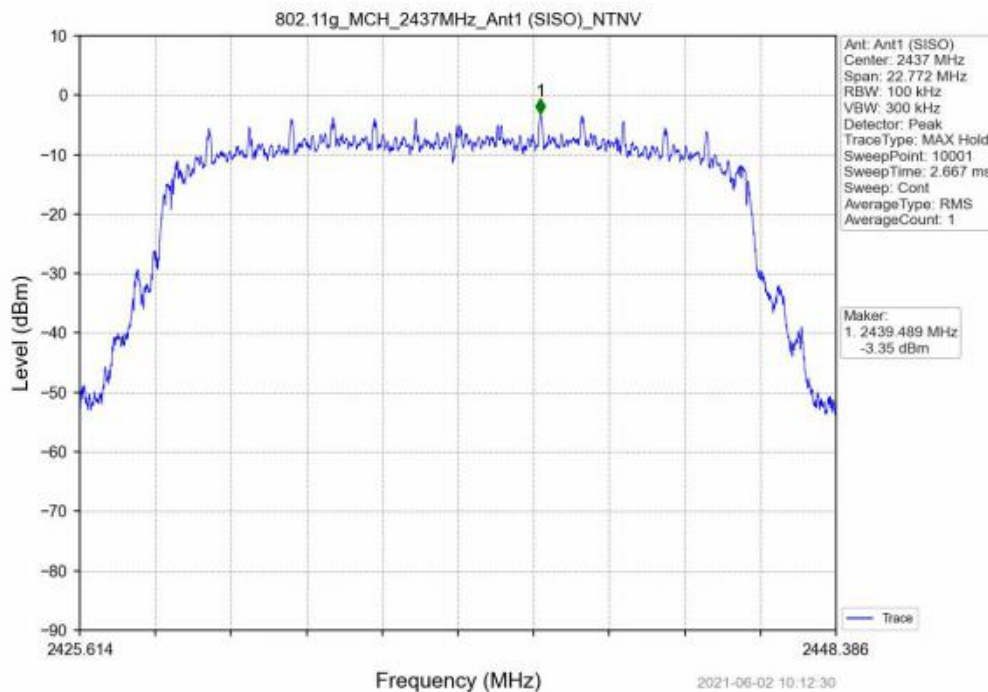
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



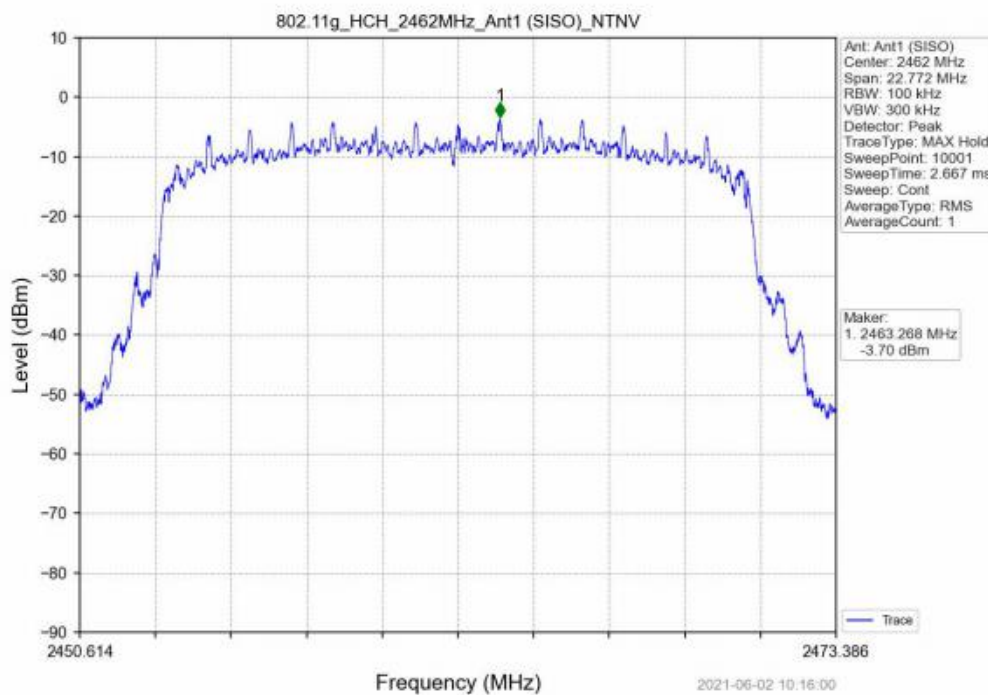
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



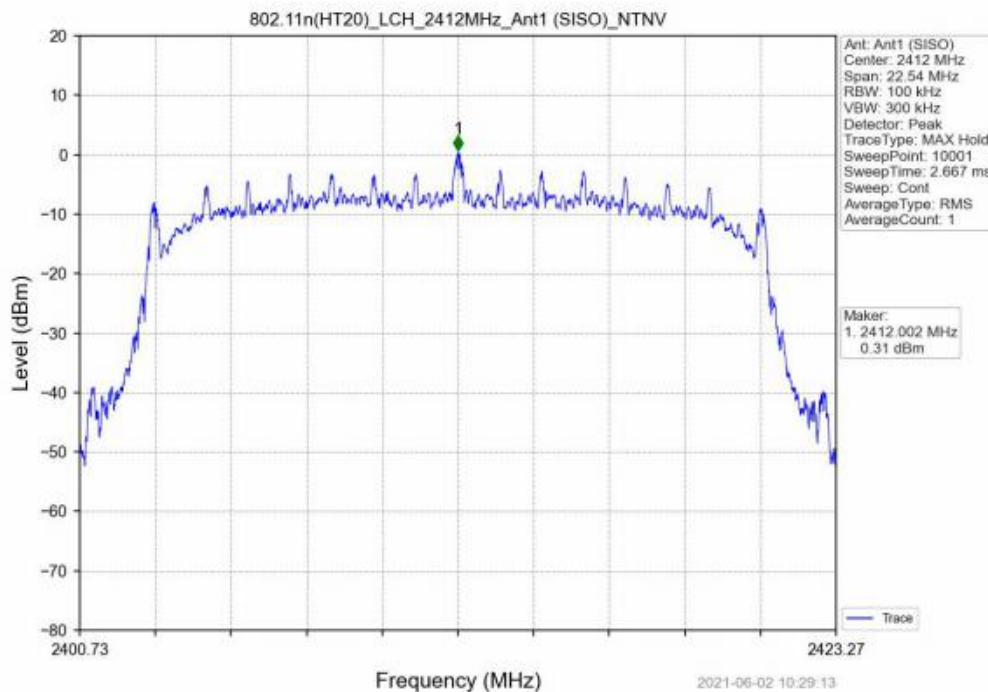
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



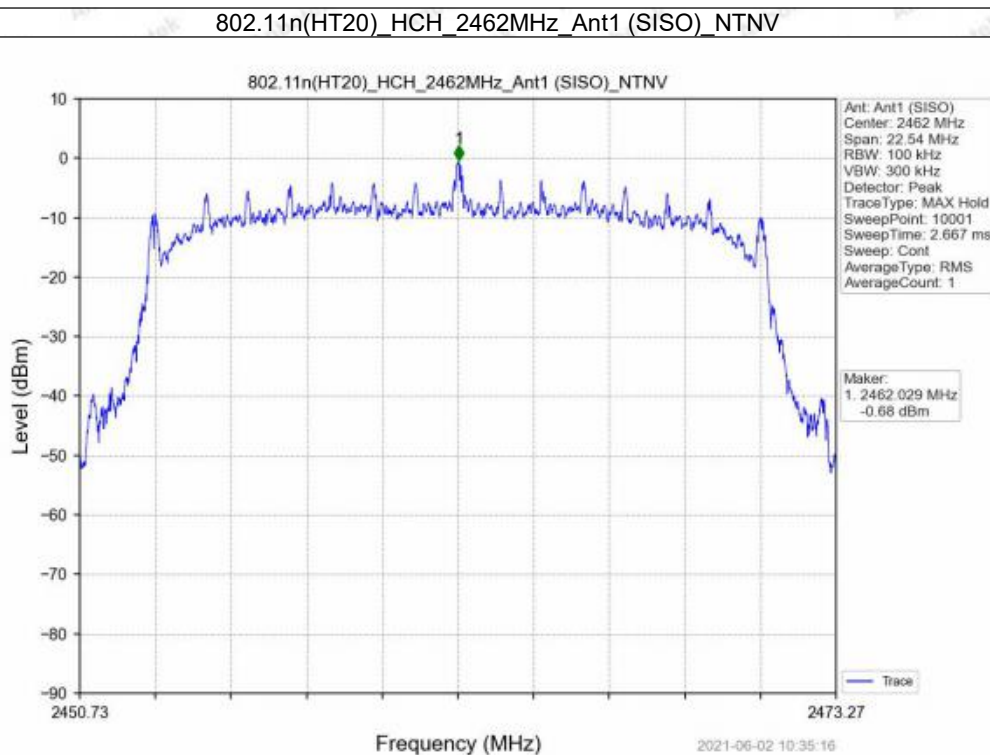
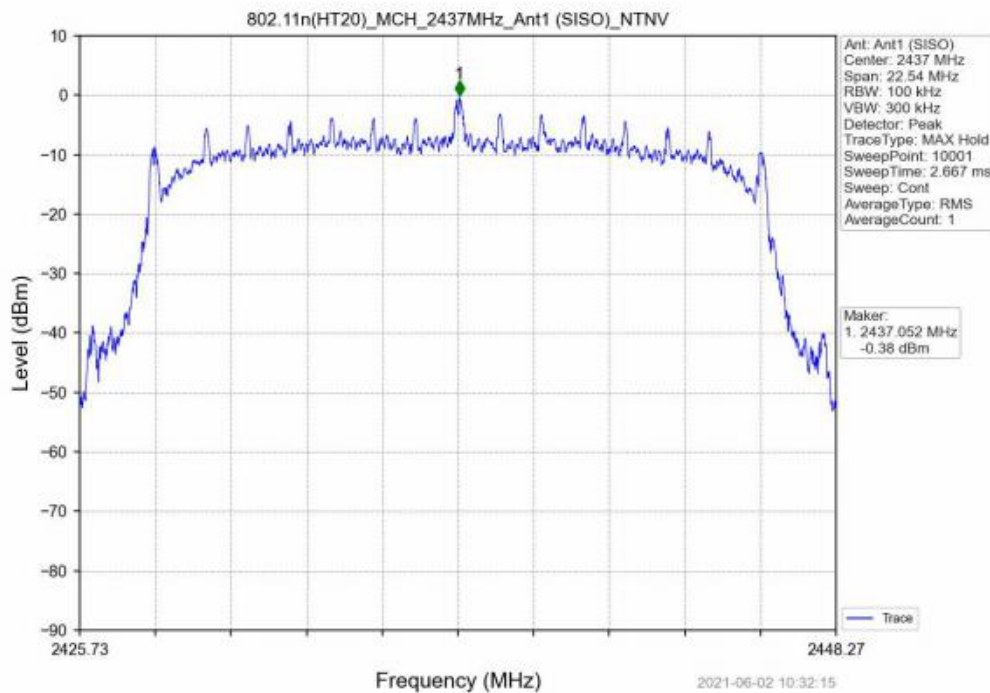
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



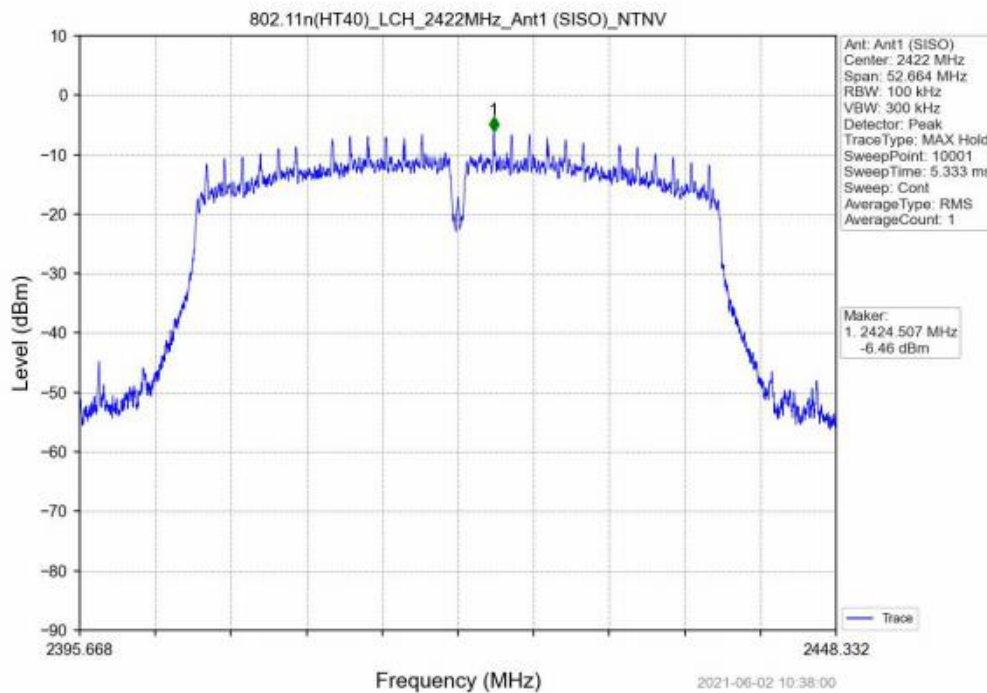
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



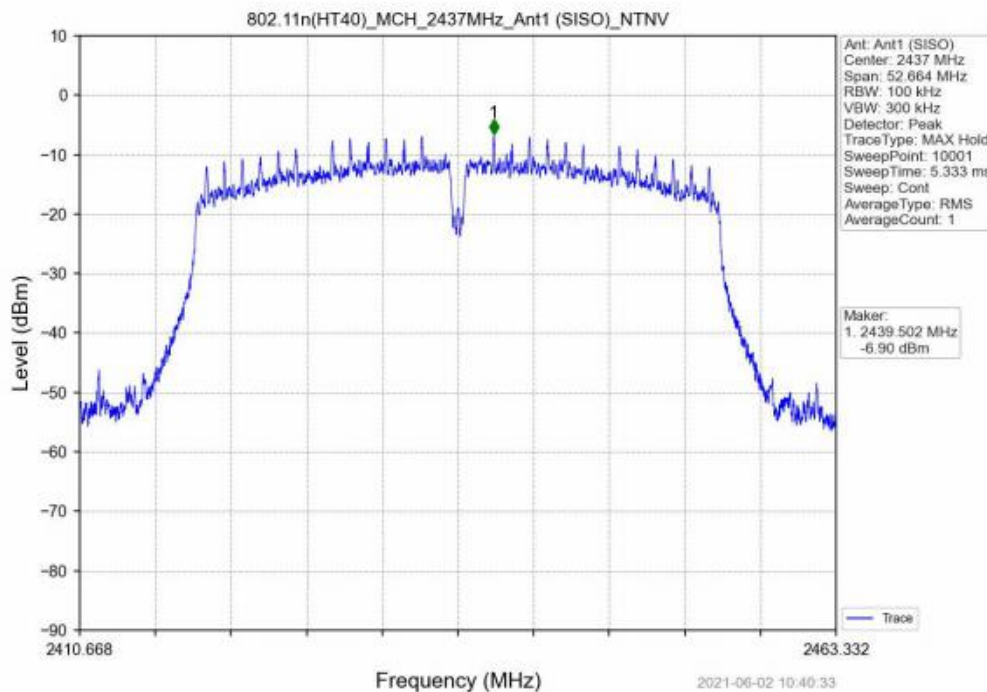
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



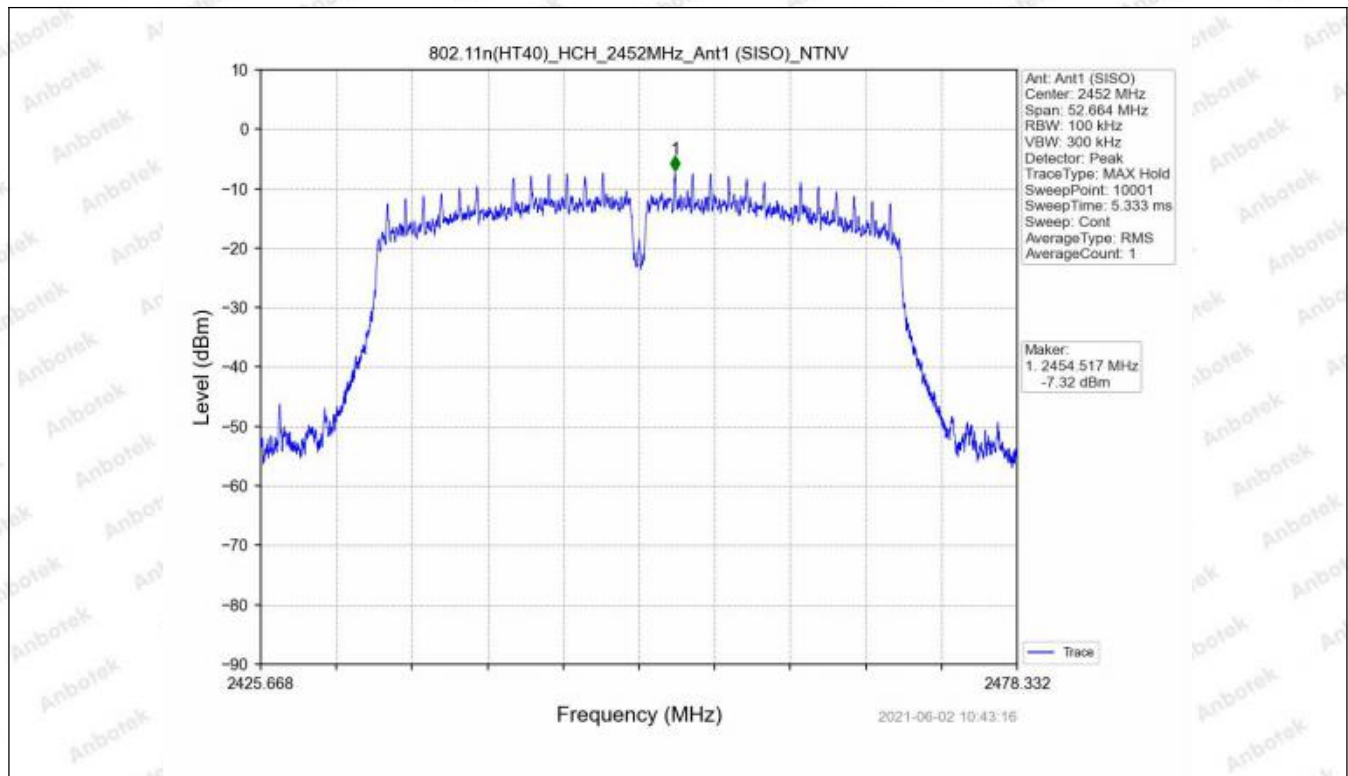
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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400-003-0500

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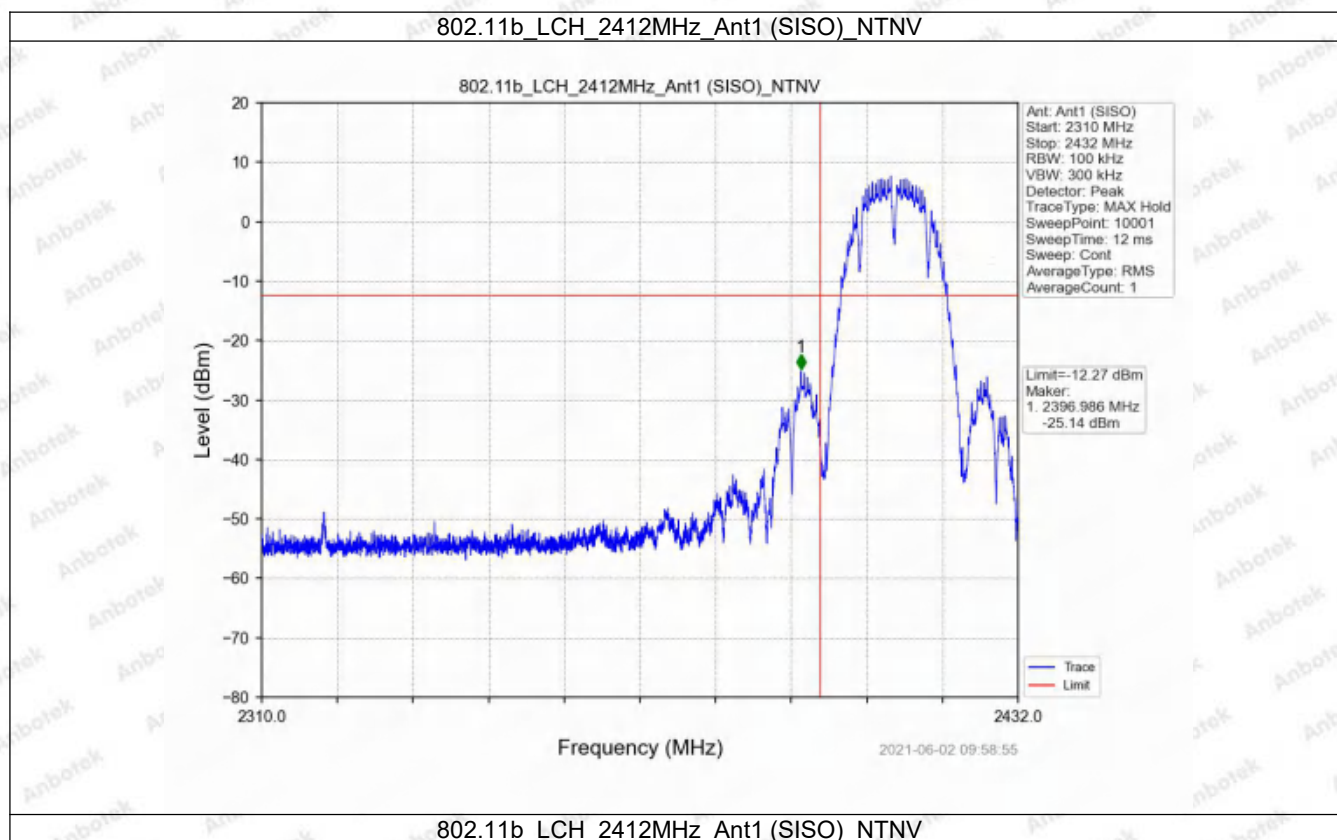
5.2 CSE

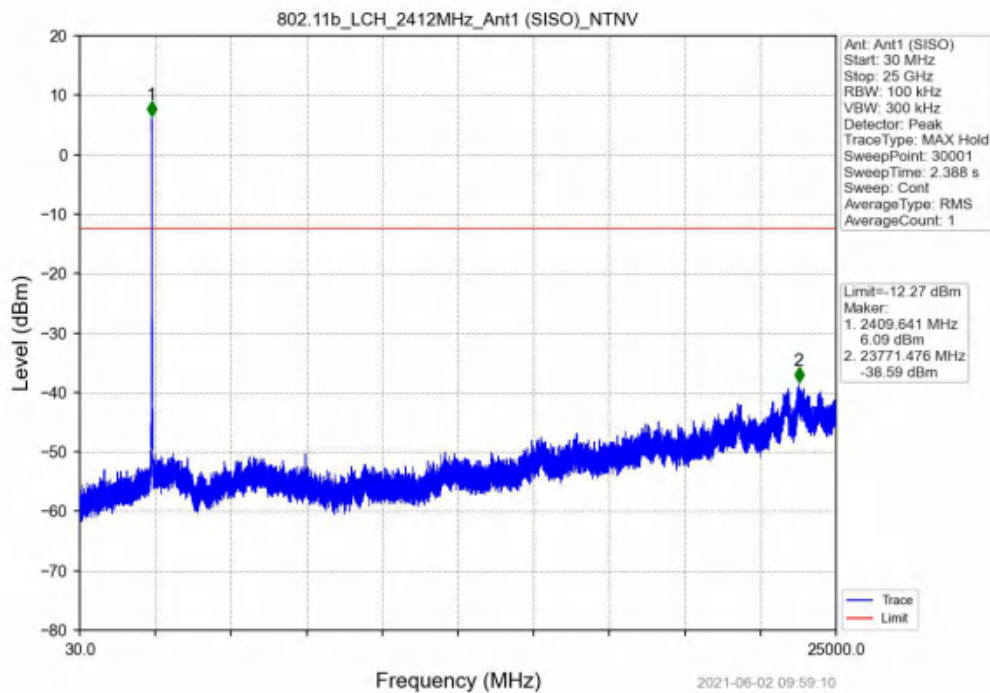
5.2.1 Test Result

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	<=-12.27	Pass
		2437	/	/	1	Refer To Test Graph	<=-12.27	Pass
		2462	/	/	1	Refer To Test Graph	<=-12.27	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	<=-22.73	Pass
		2437	/	/	1	Refer To Test Graph	<=-22.73	Pass
		2462	/	/	1	Refer To Test Graph	<=-22.73	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	<=-19.69	Pass
		2437	/	/	1	Refer To Test Graph	<=-19.69	Pass
		2462	/	/	1	Refer To Test Graph	<=-19.69	Pass
802.11n (HT40)	SISO	2422	/	/	1	Refer To Test Graph	<=-19.69	Pass
		2437	/	/	1	Refer To Test Graph	<=-19.69	Pass
		2452	/	/	1	Refer To Test Graph	<=-19.69	Pass

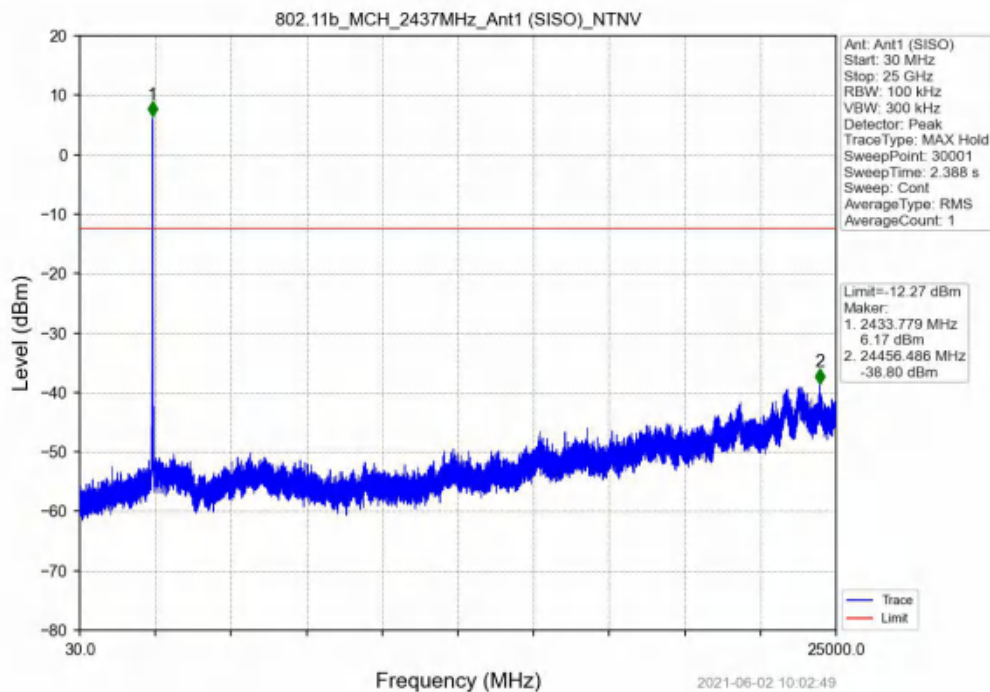
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph

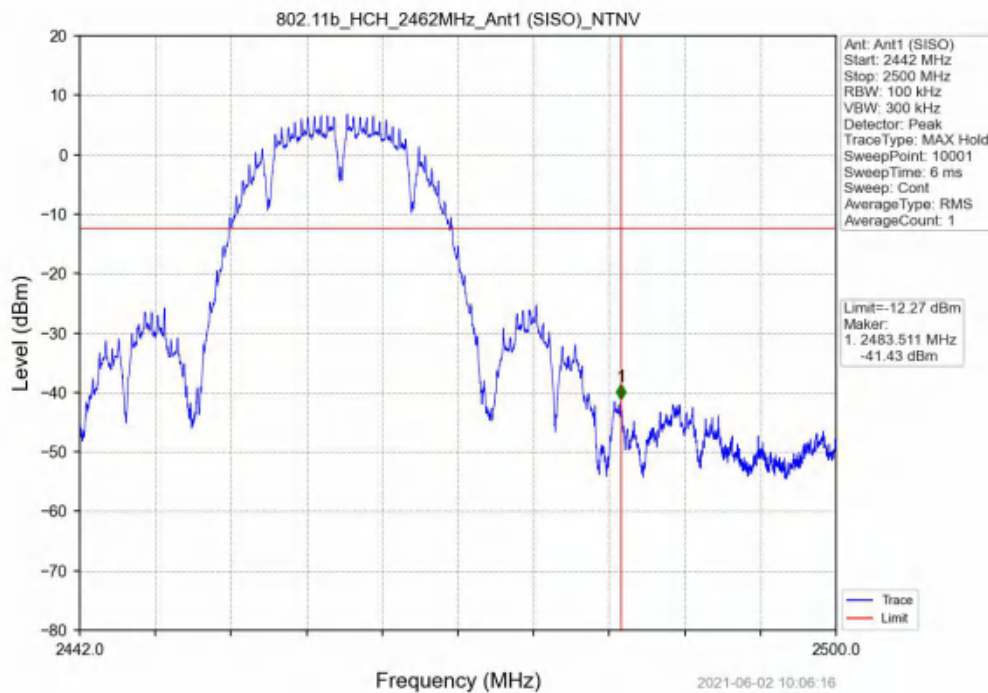




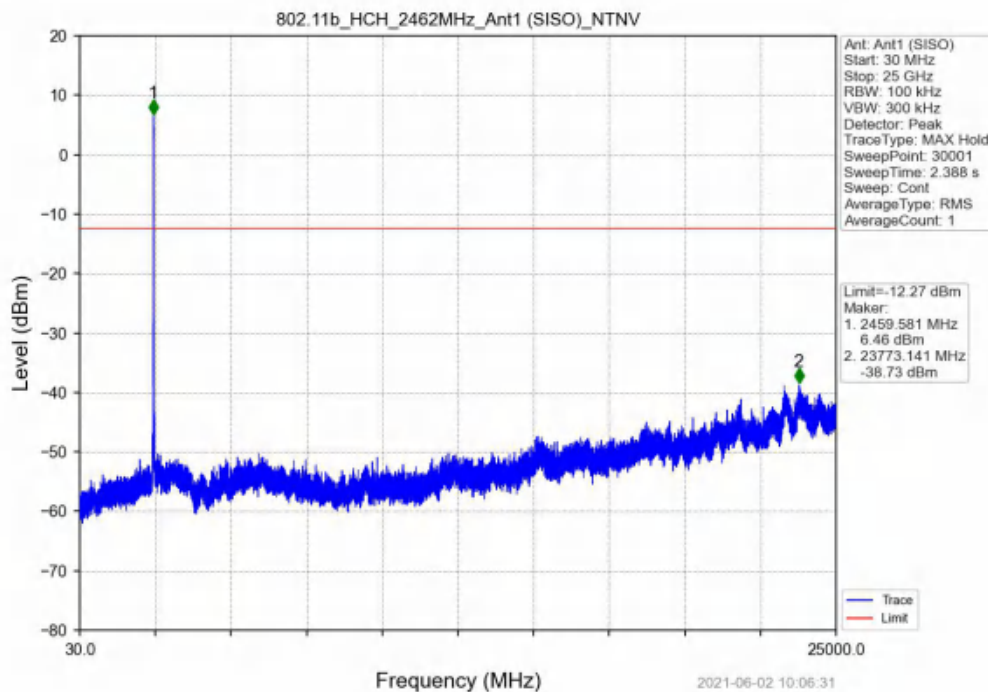
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



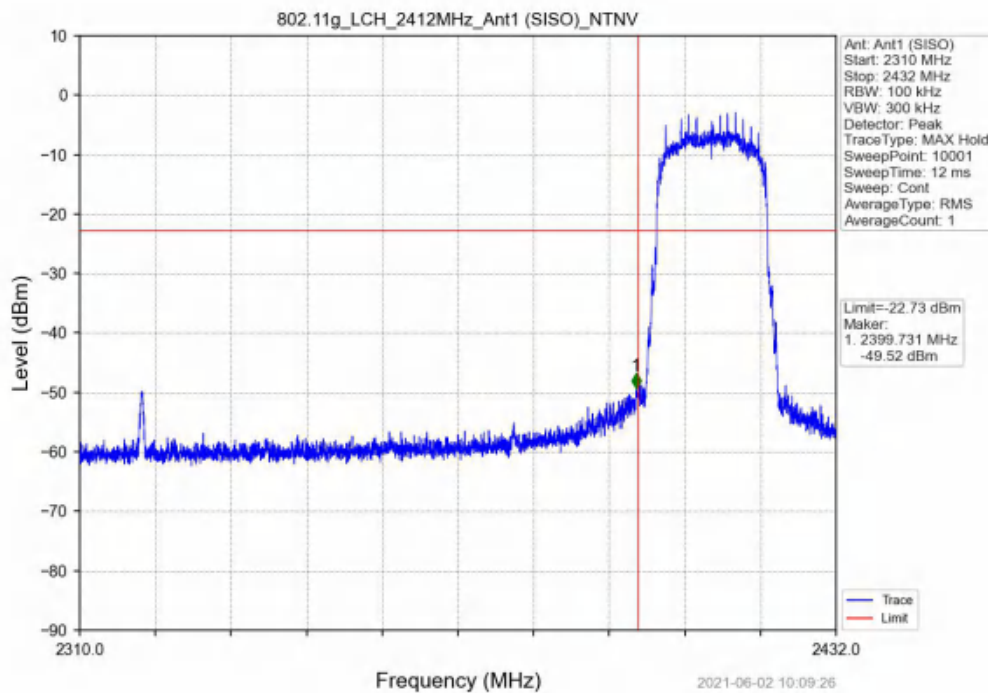
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



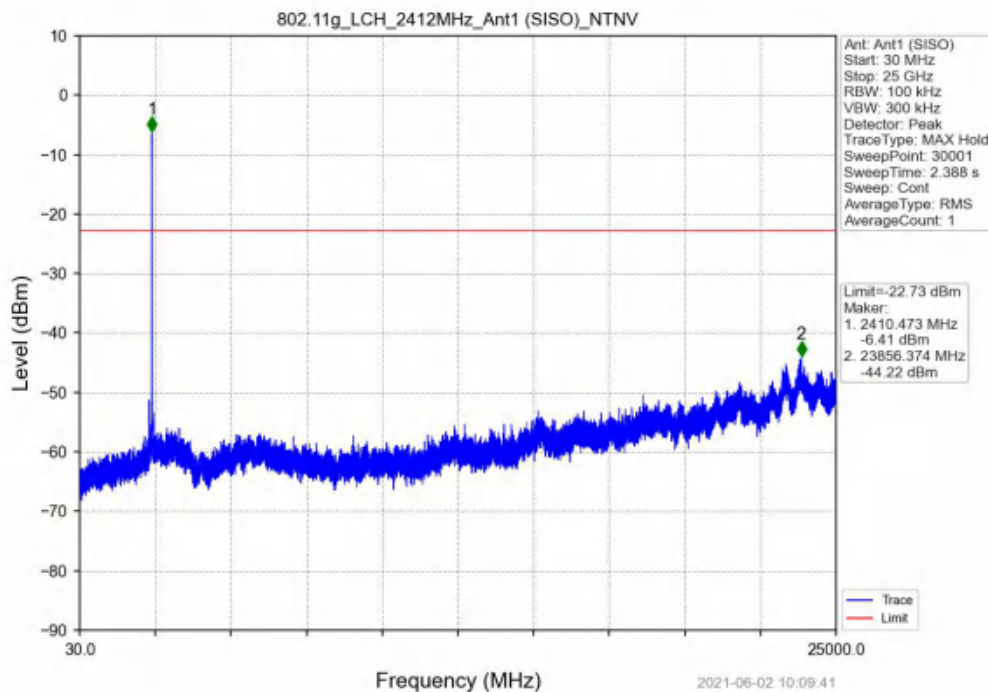
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



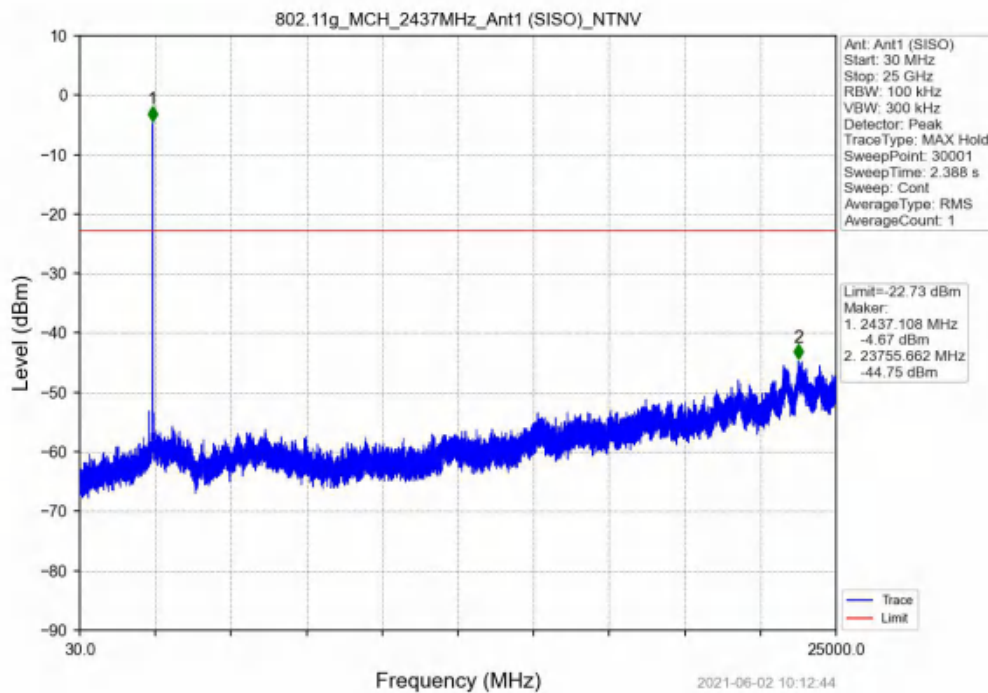
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



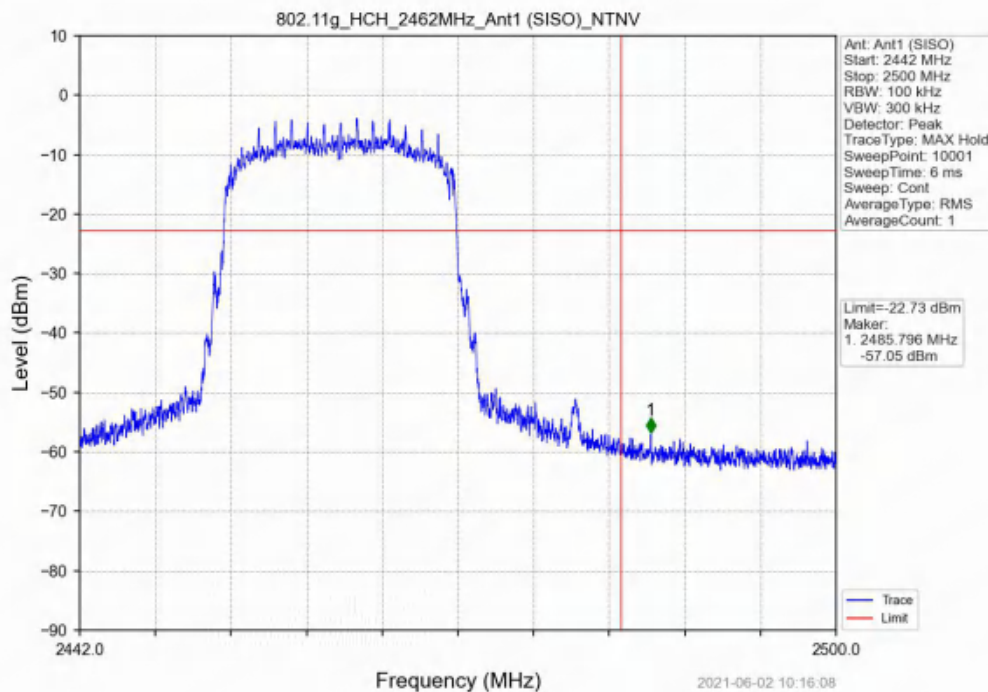
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



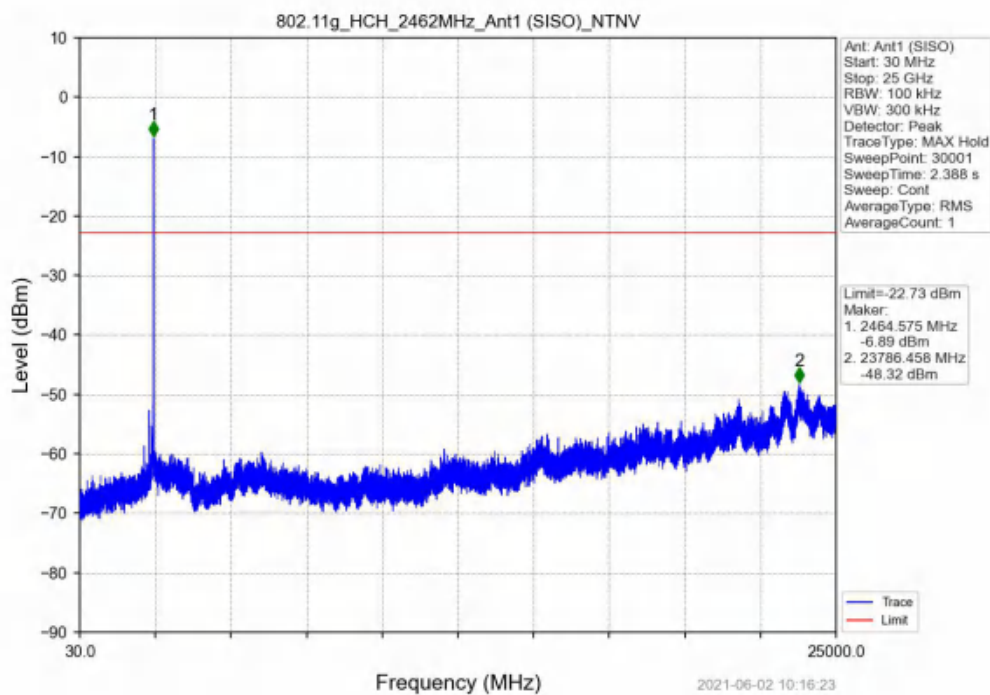
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



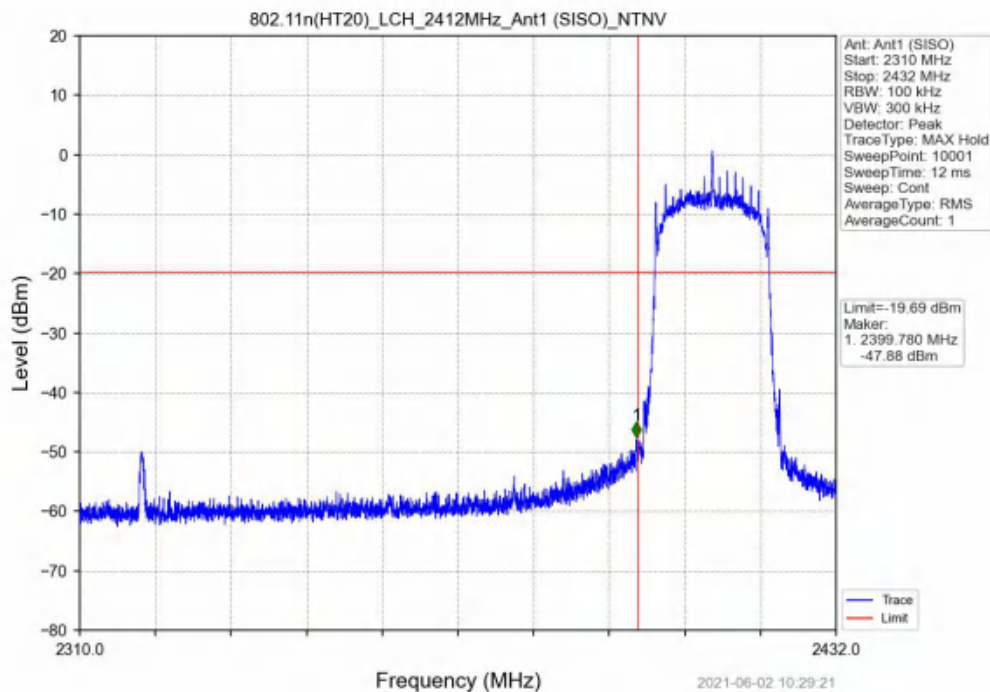
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



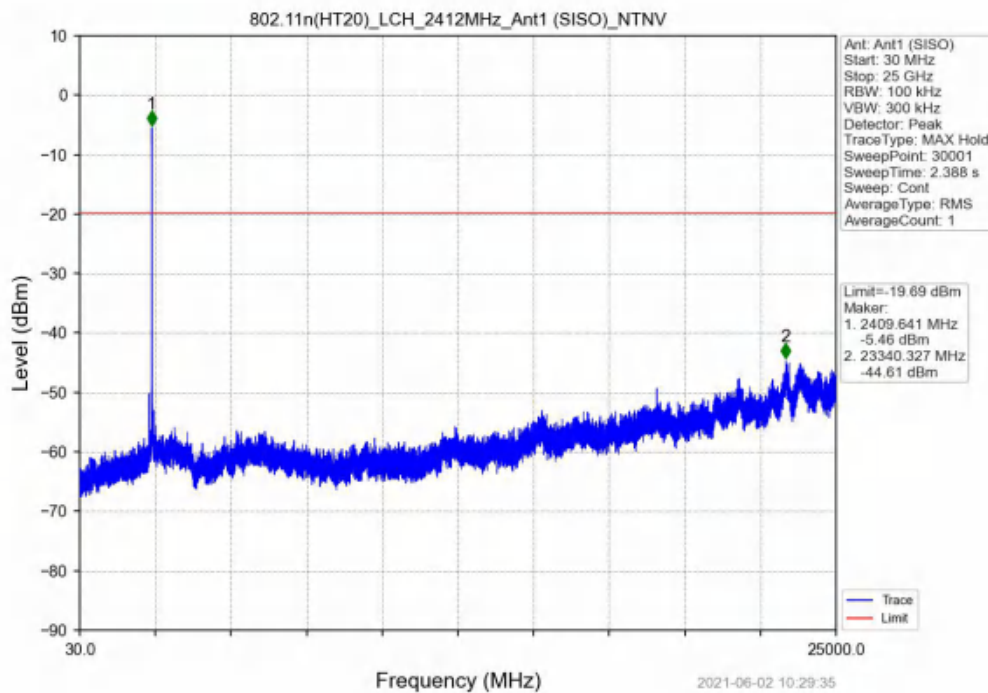
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



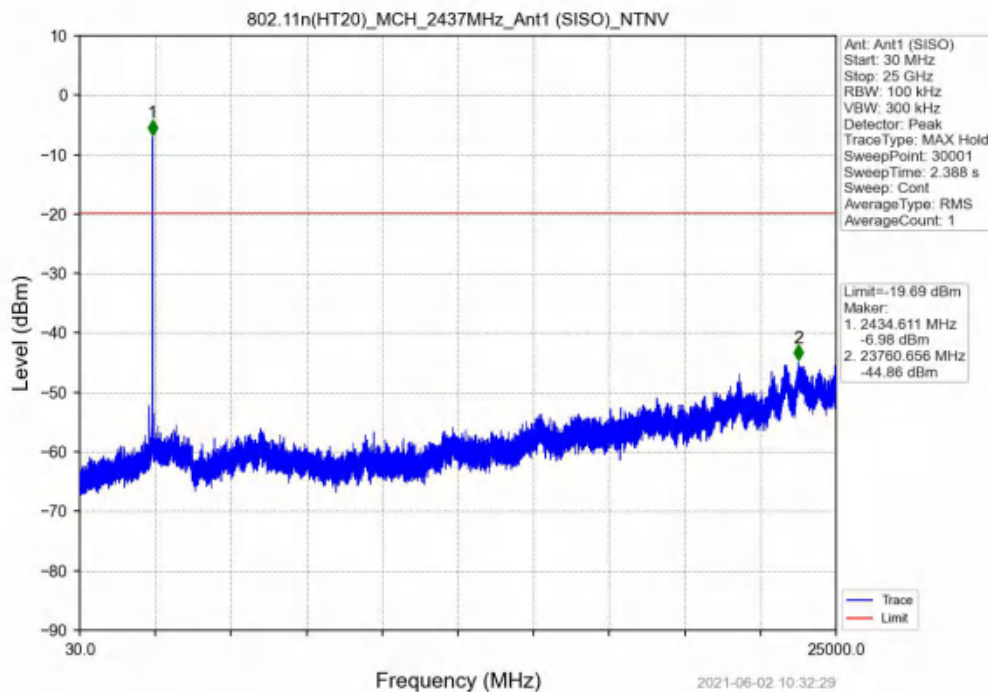
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



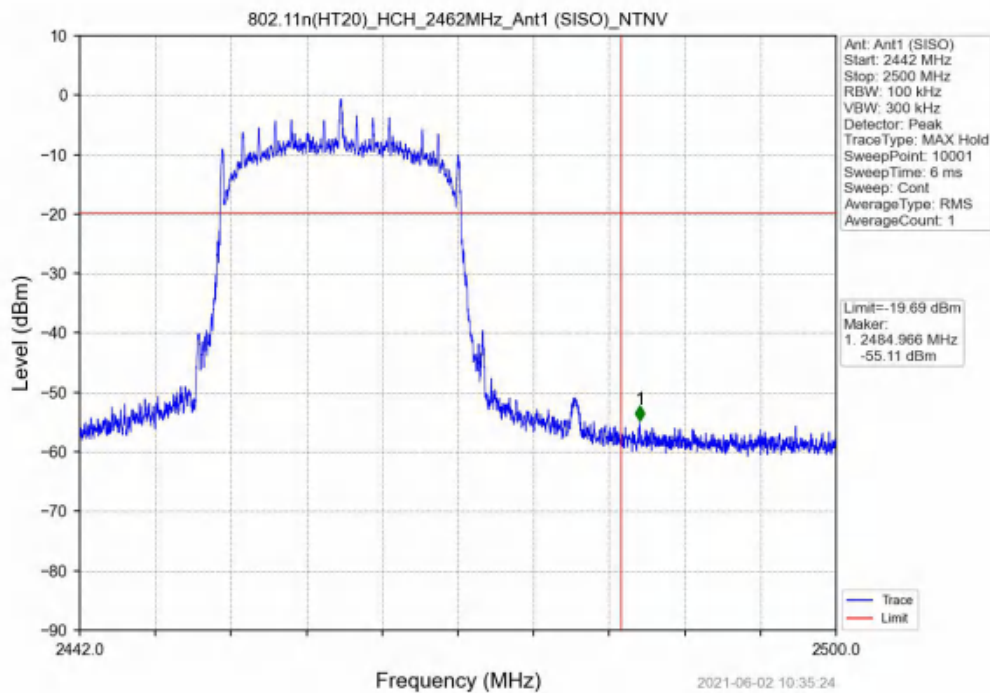
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



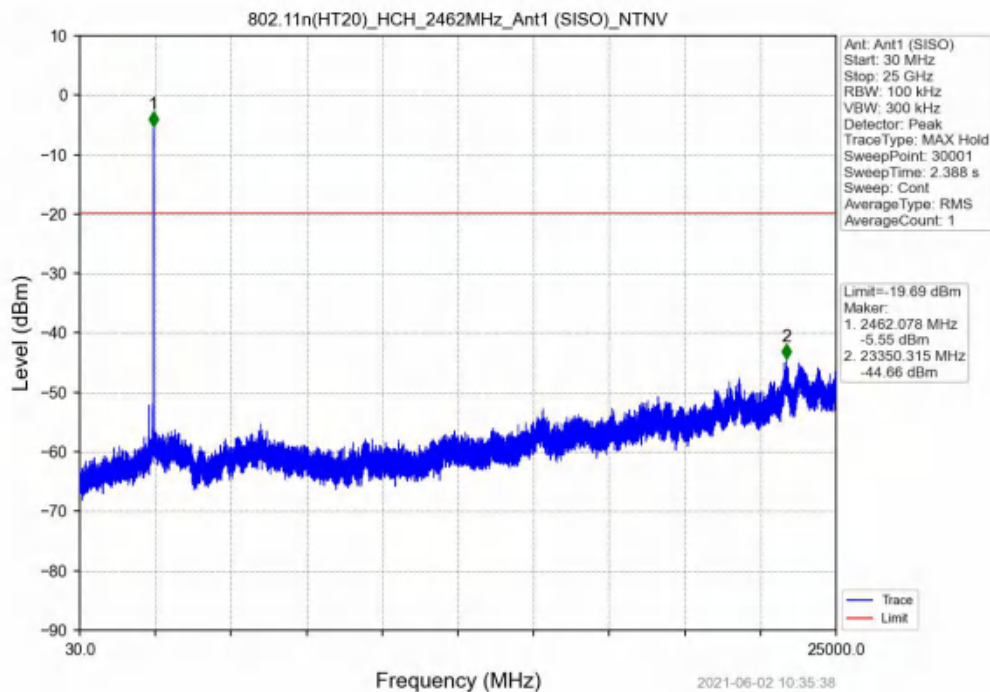
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



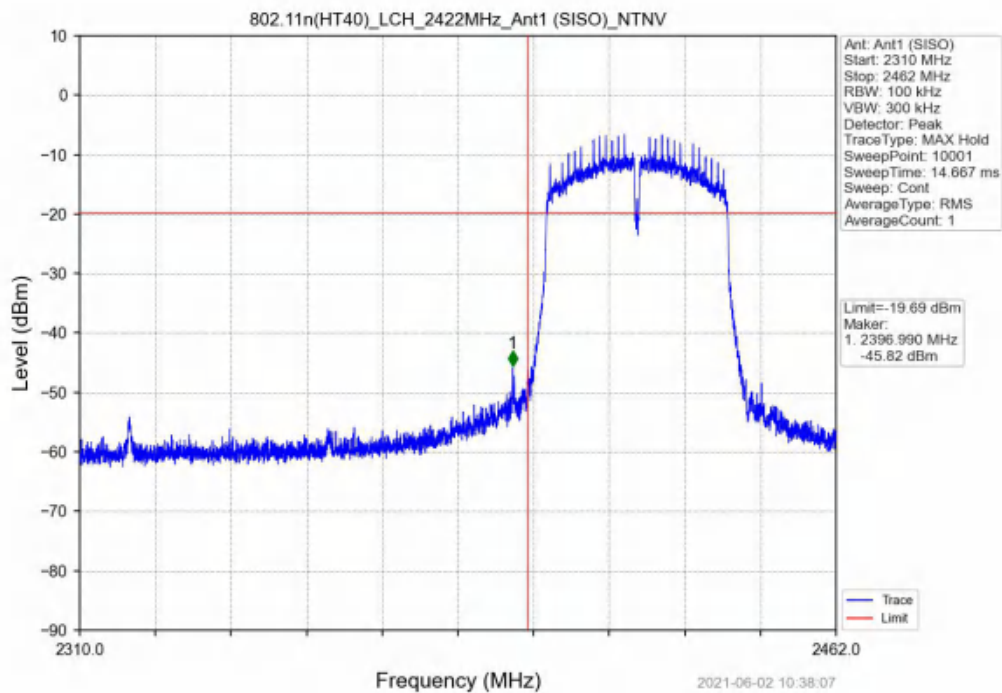
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



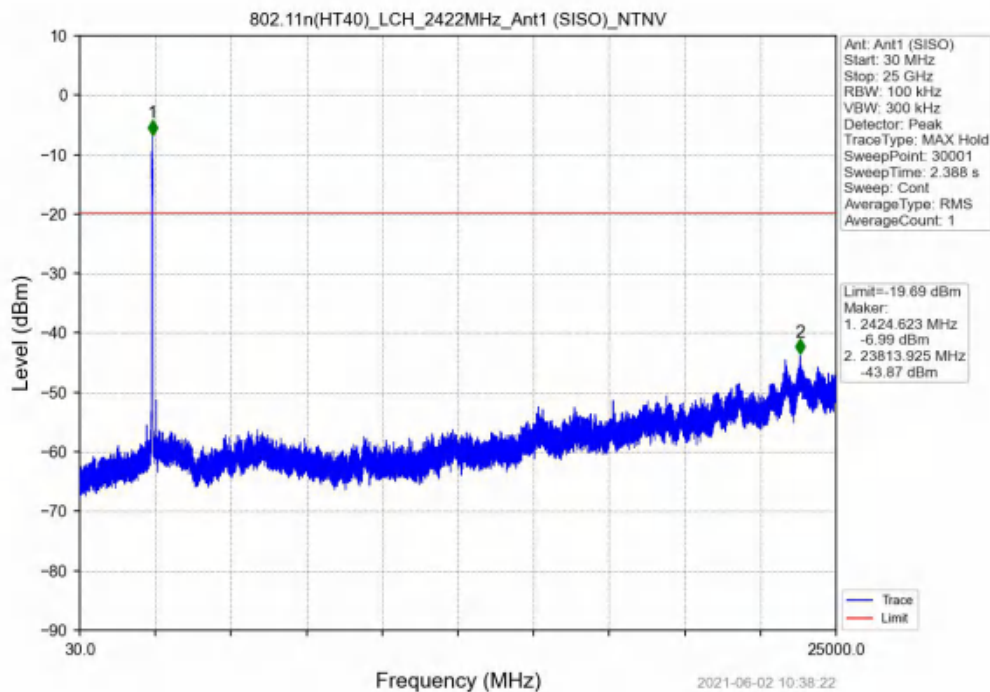
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



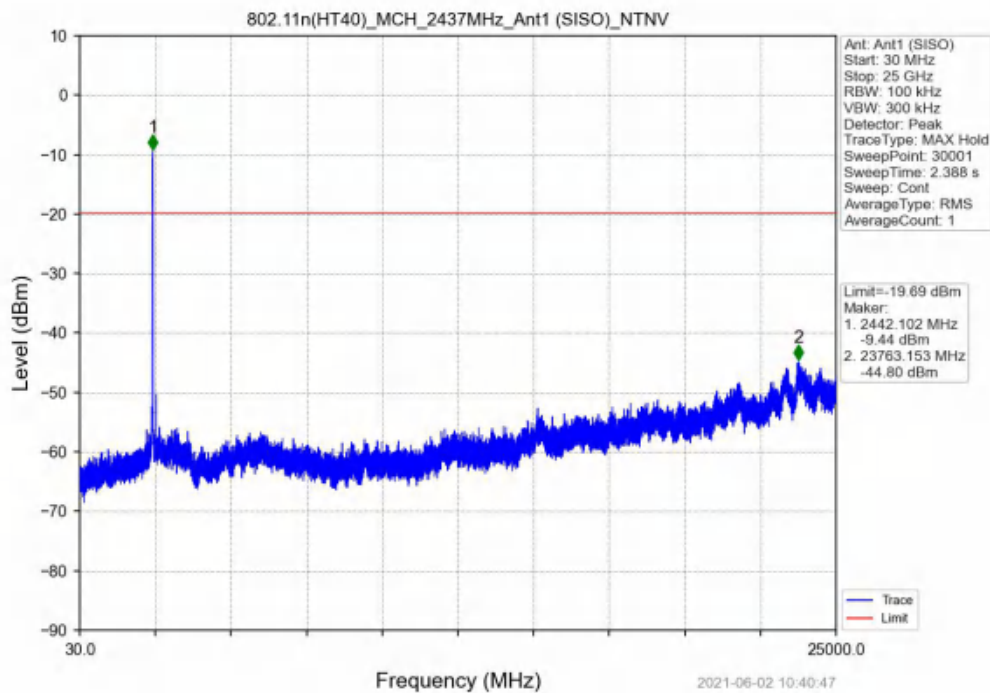
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



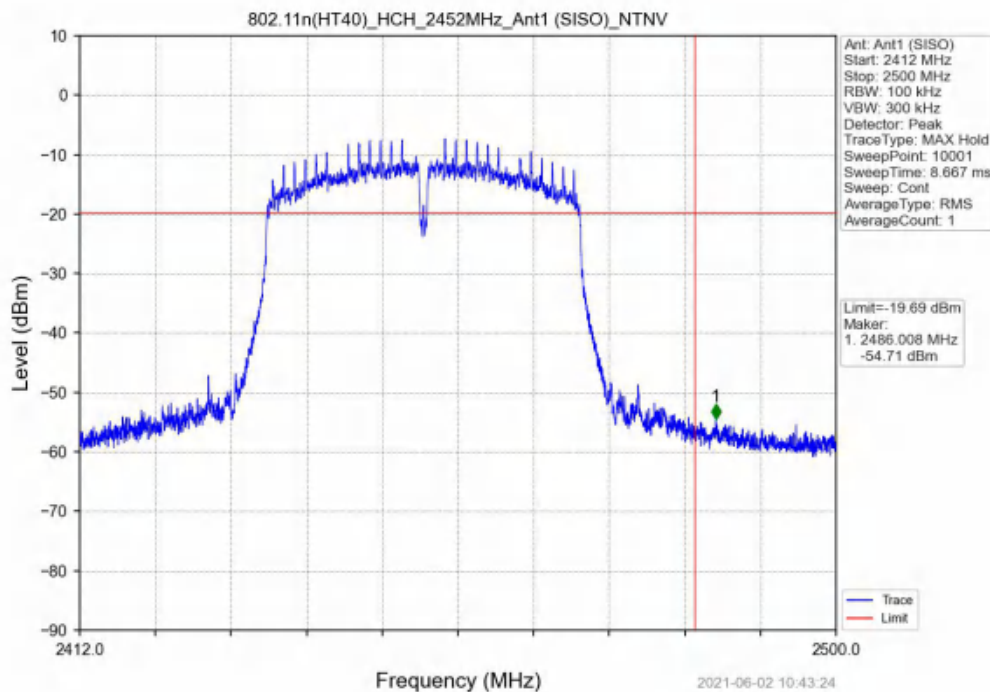
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



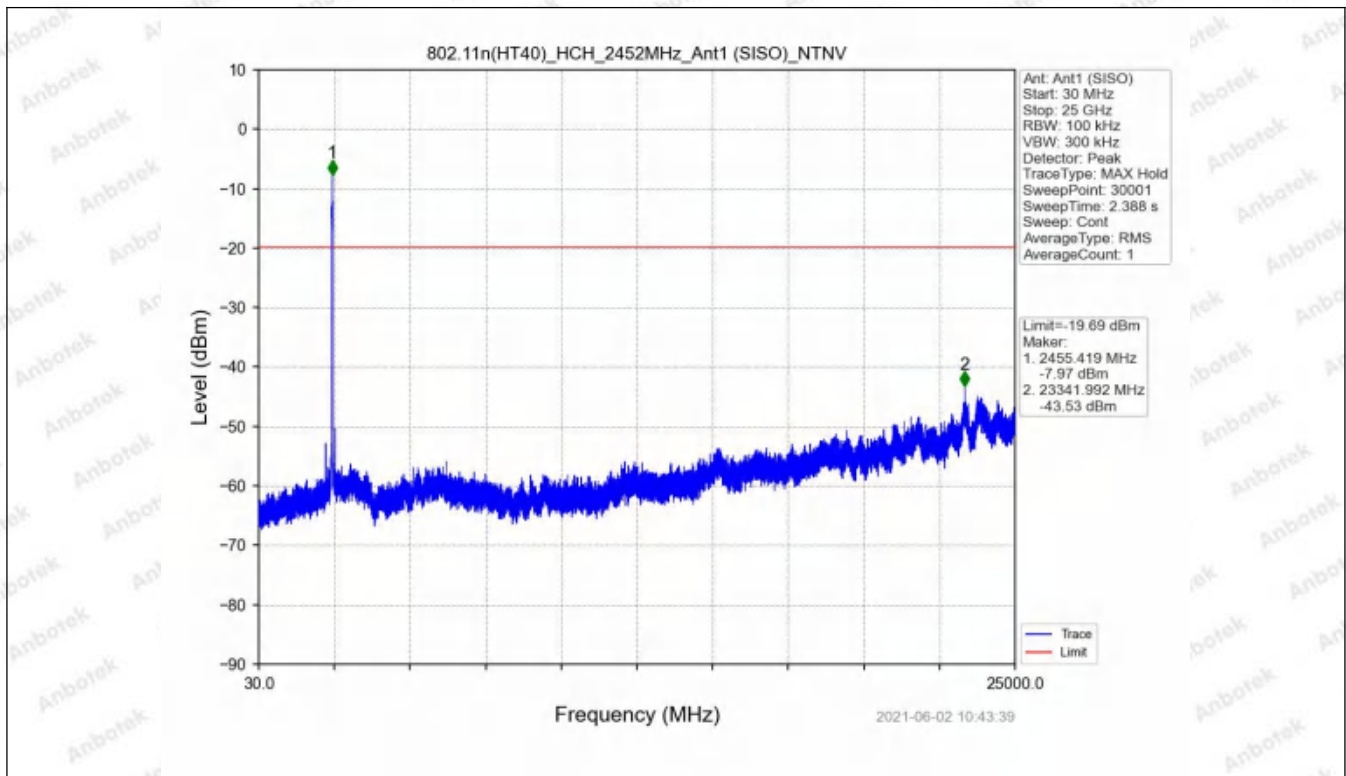
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



---End---