

Appendix Test Data

Report No.:	18220WC10100501	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		

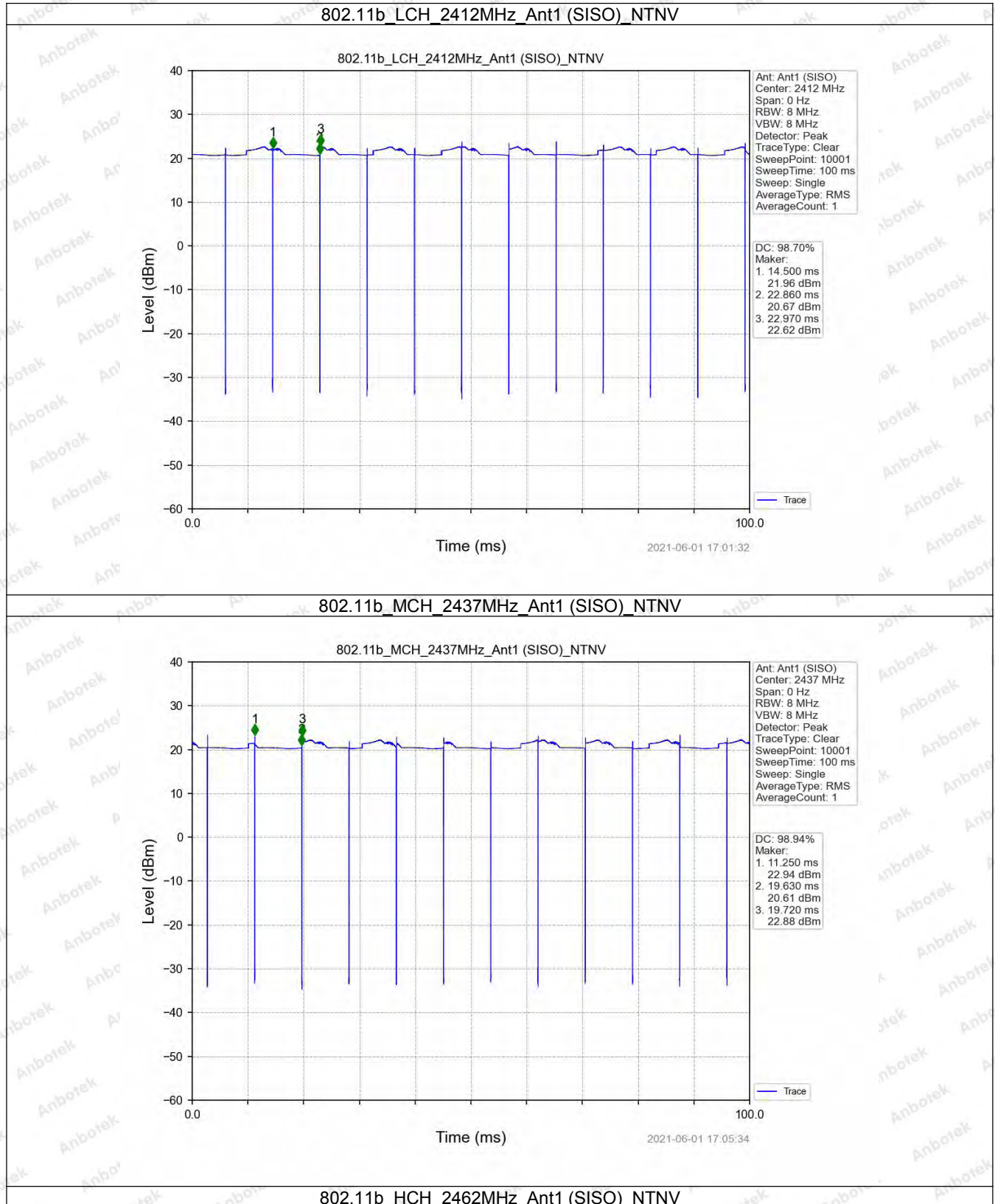
1. Duty Cycle

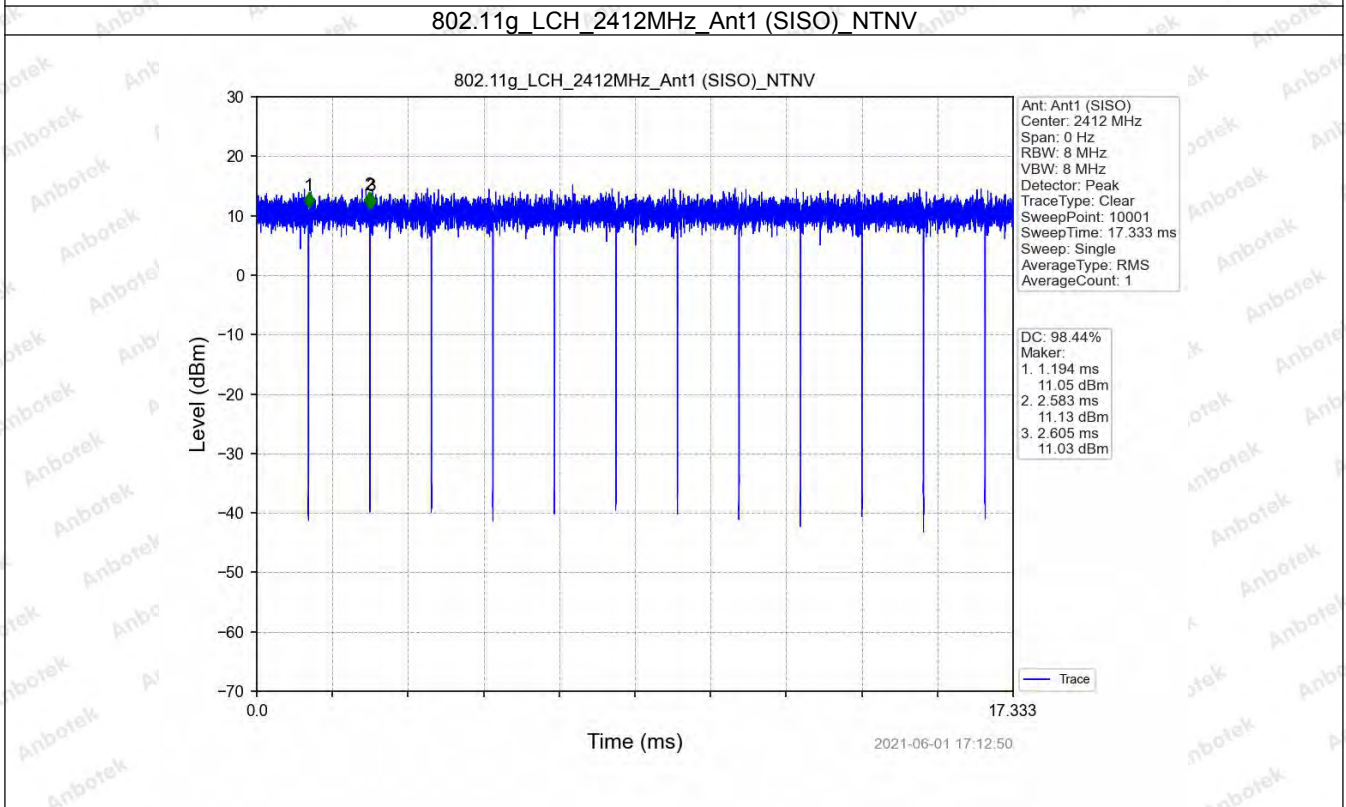
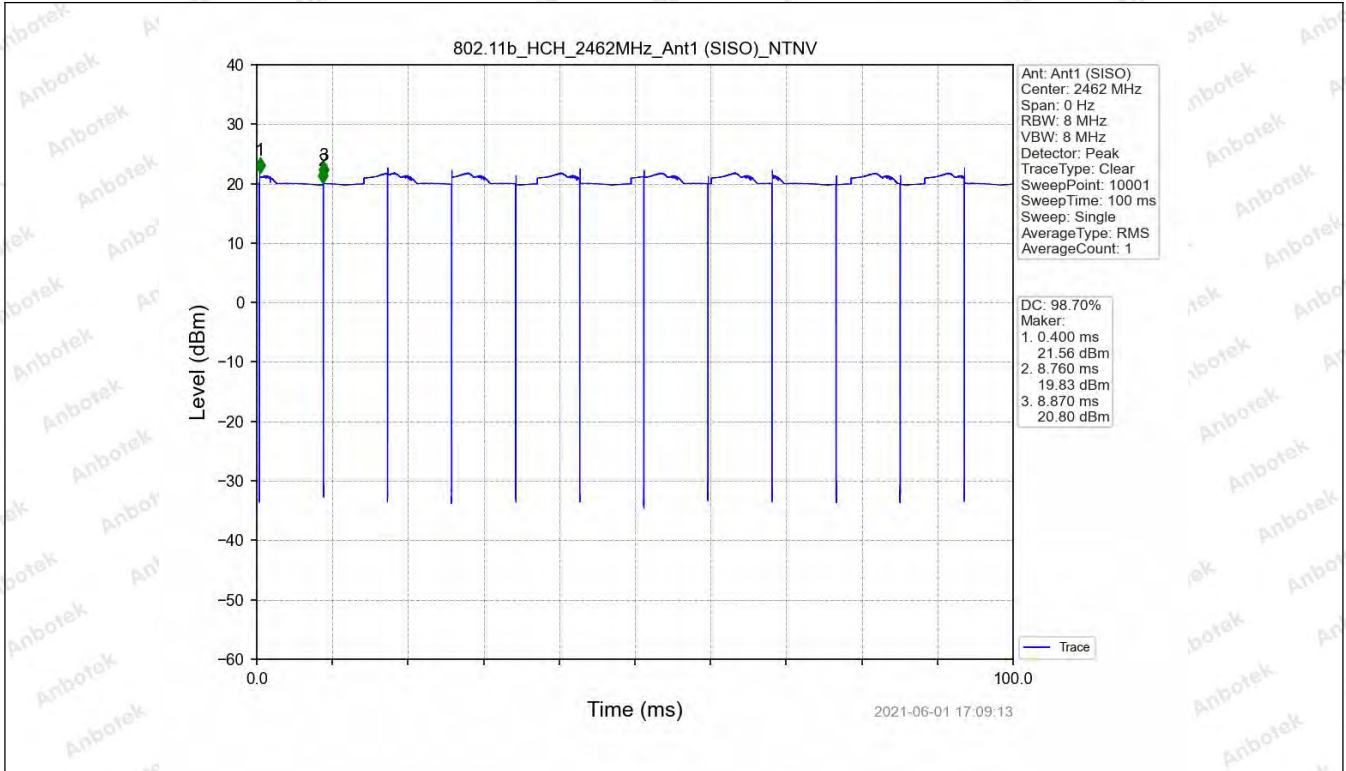
1.1 Ant1

1.1.1 Test Result

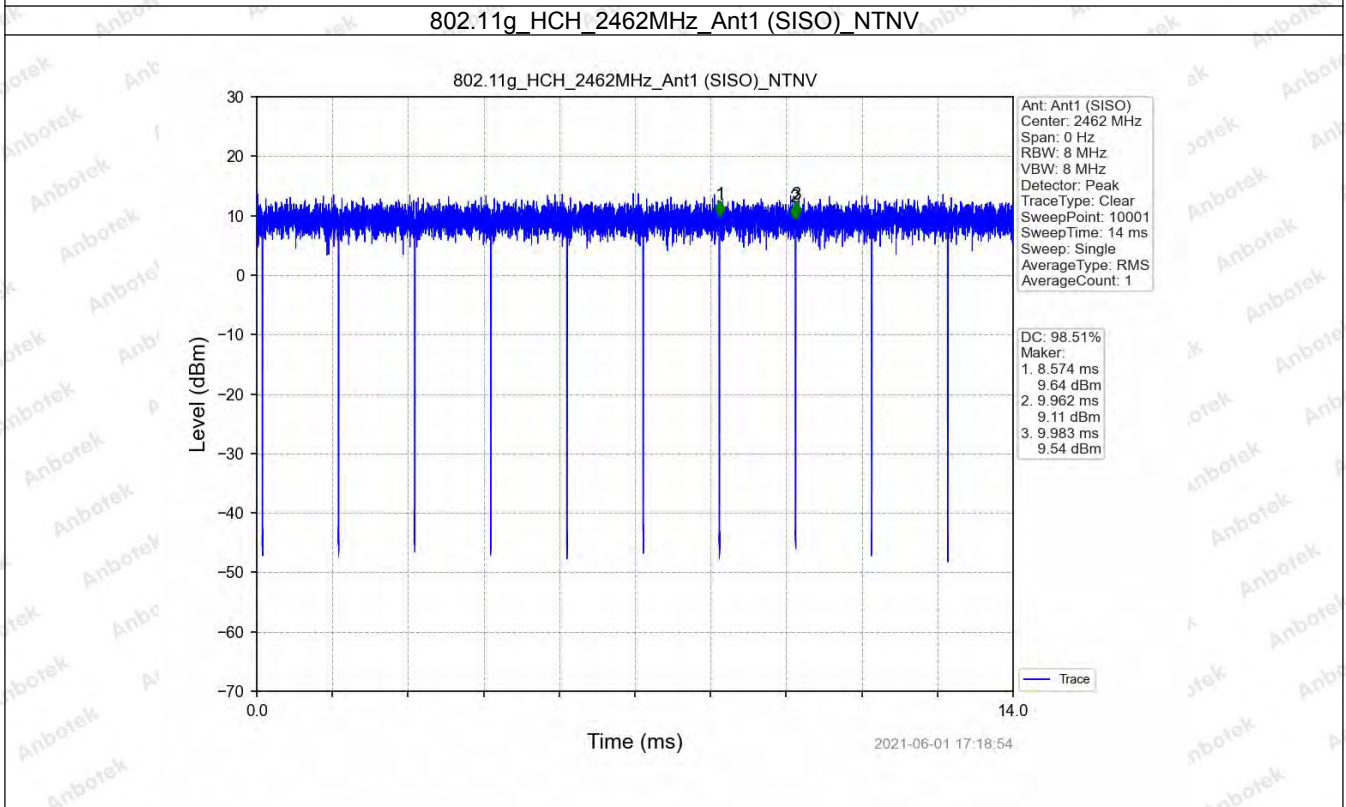
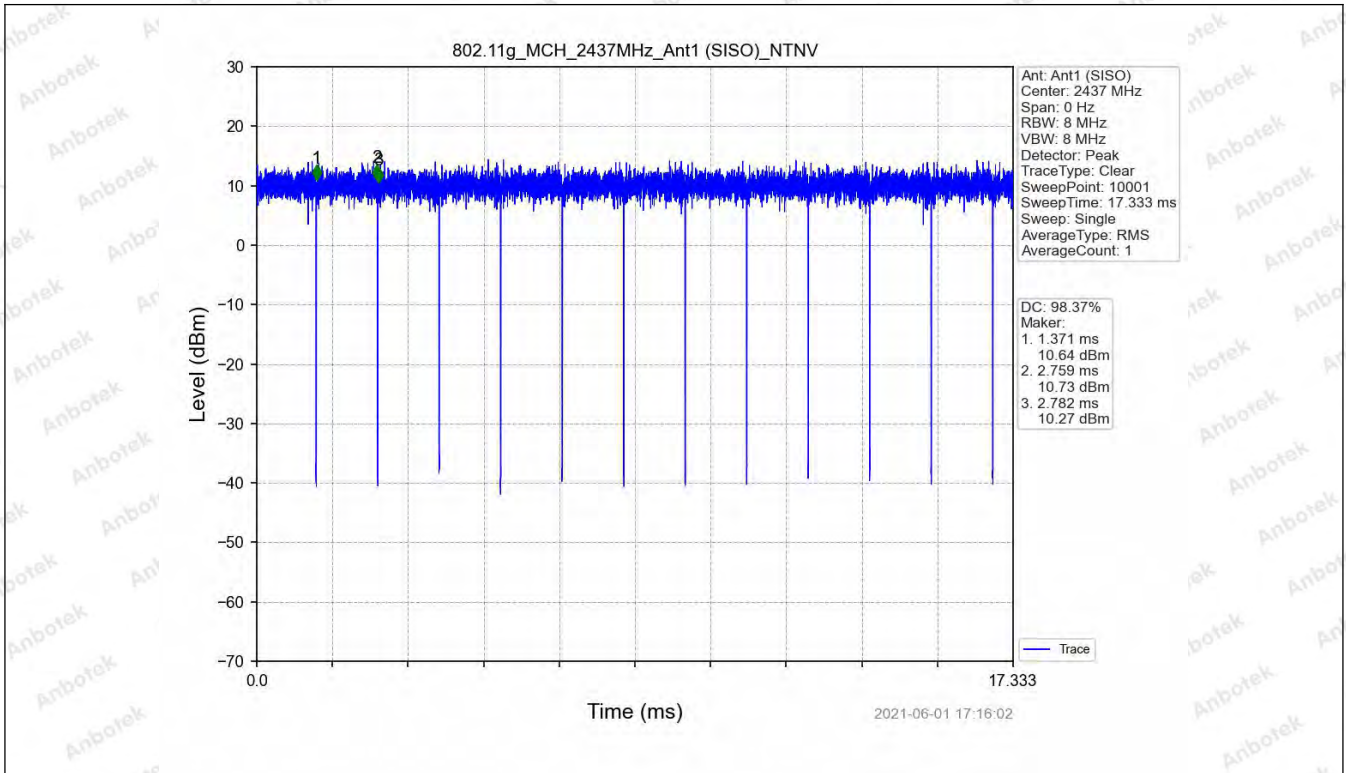
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.36	8.47	98.70	0.06	0.12
		2437	/	/	8.38	8.47	98.94	0.05	0.12
		2462	/	/	8.36	8.47	98.70	0.06	0.12
802.11g	SISO	2412	/	/	1.39	1.41	98.44	0.07	0.12
		2437	/	/	1.39	1.41	98.37	0.07	0.12
		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	98.56	0.06	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

1.1.2 Test Graph

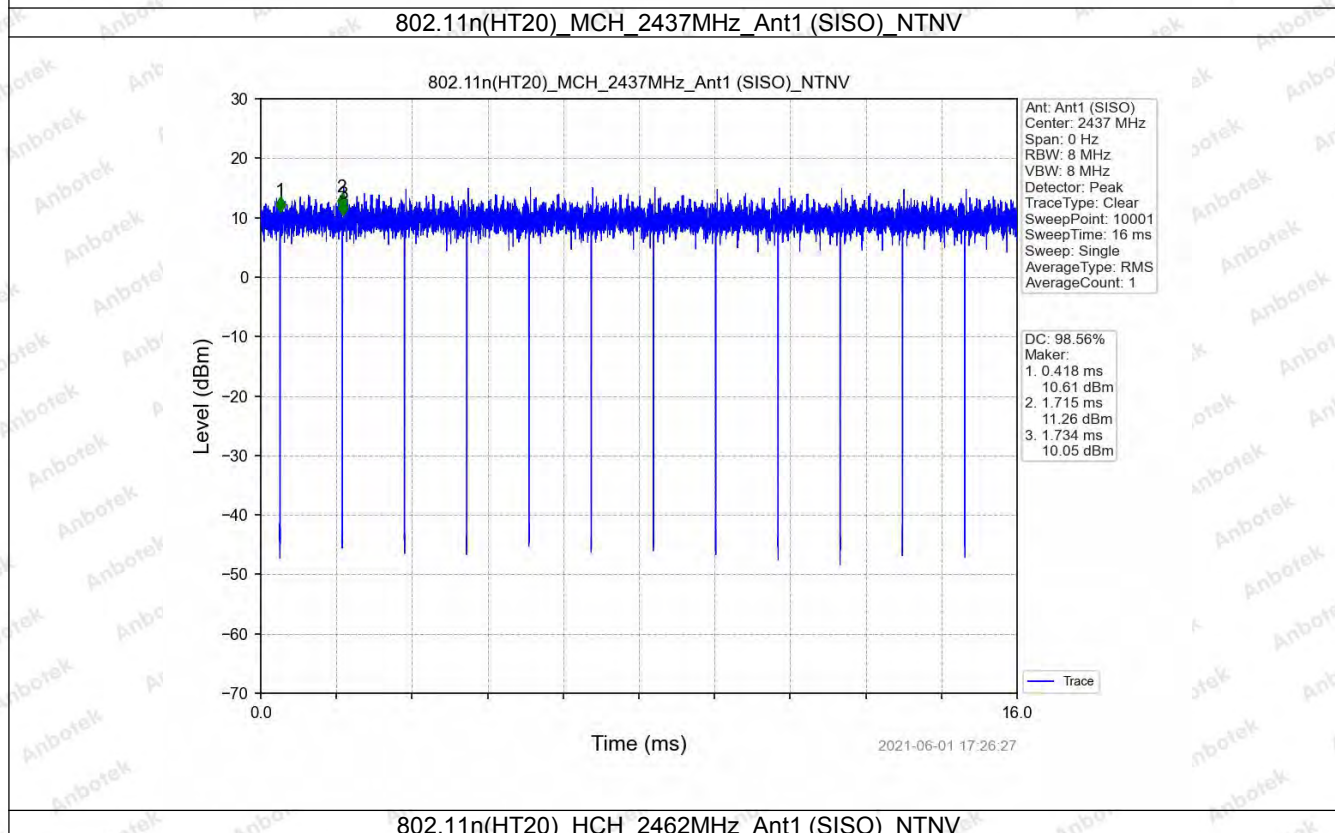
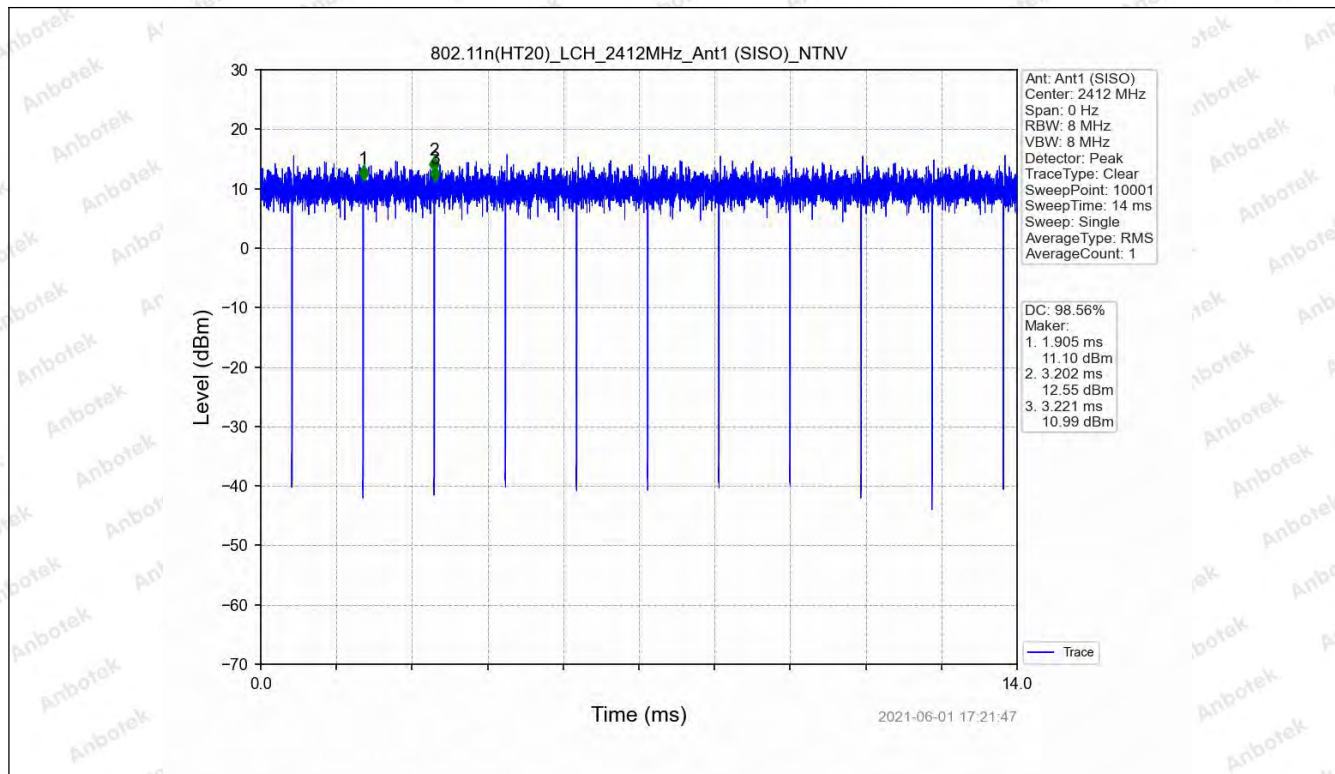




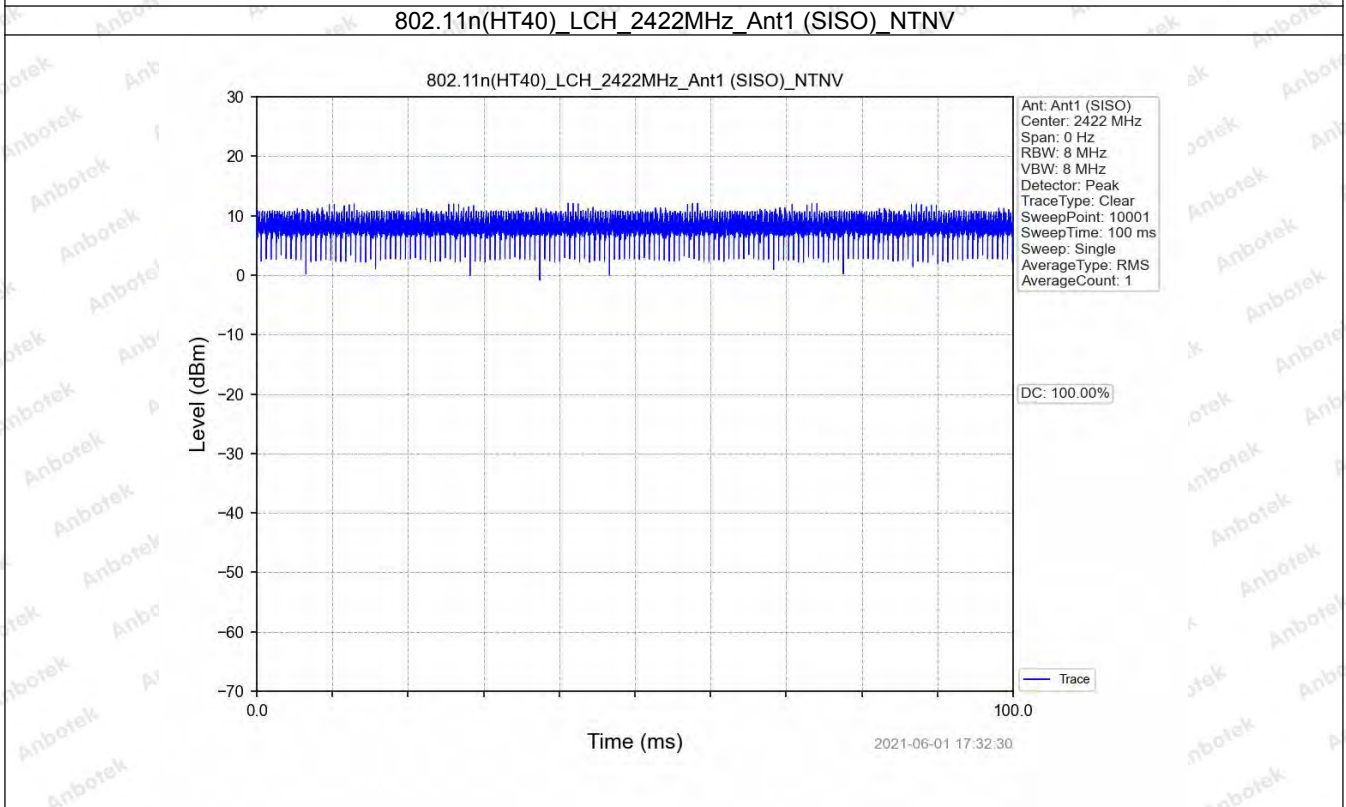
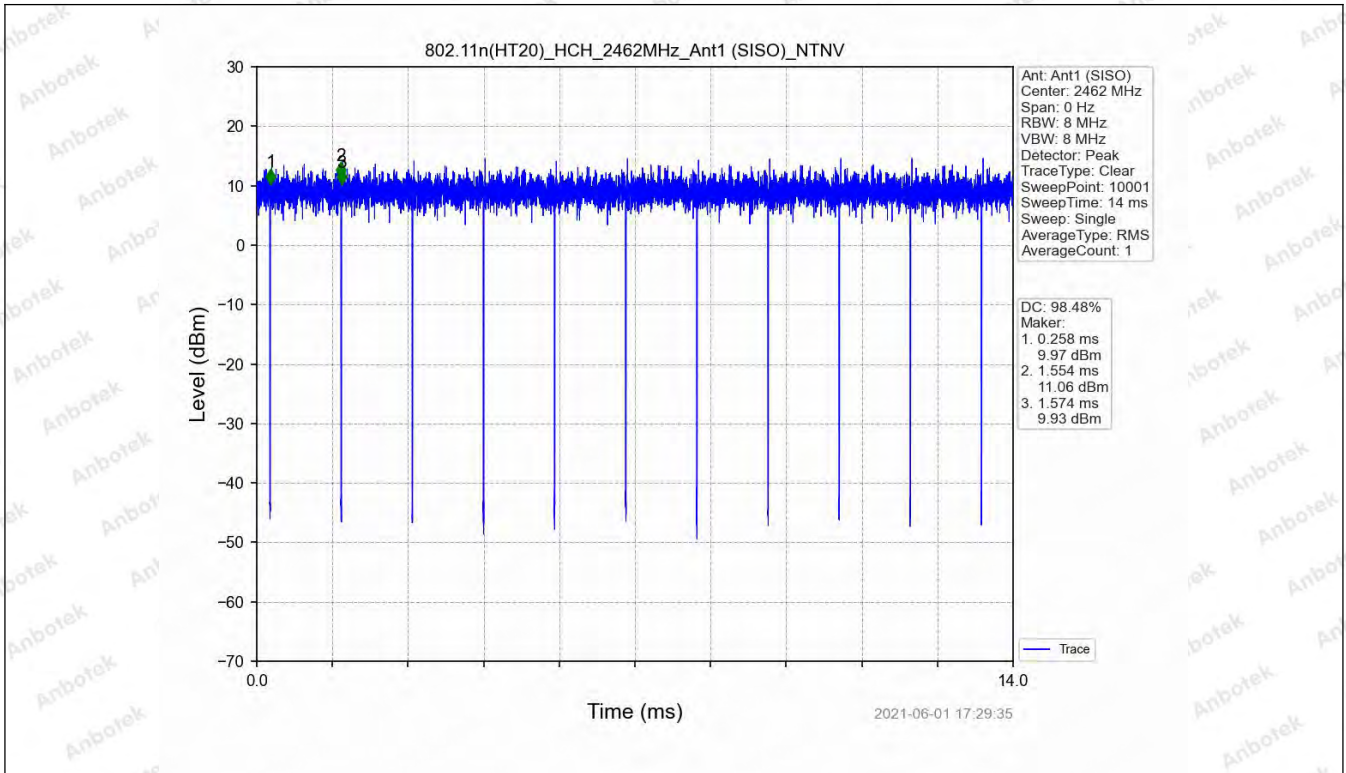
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



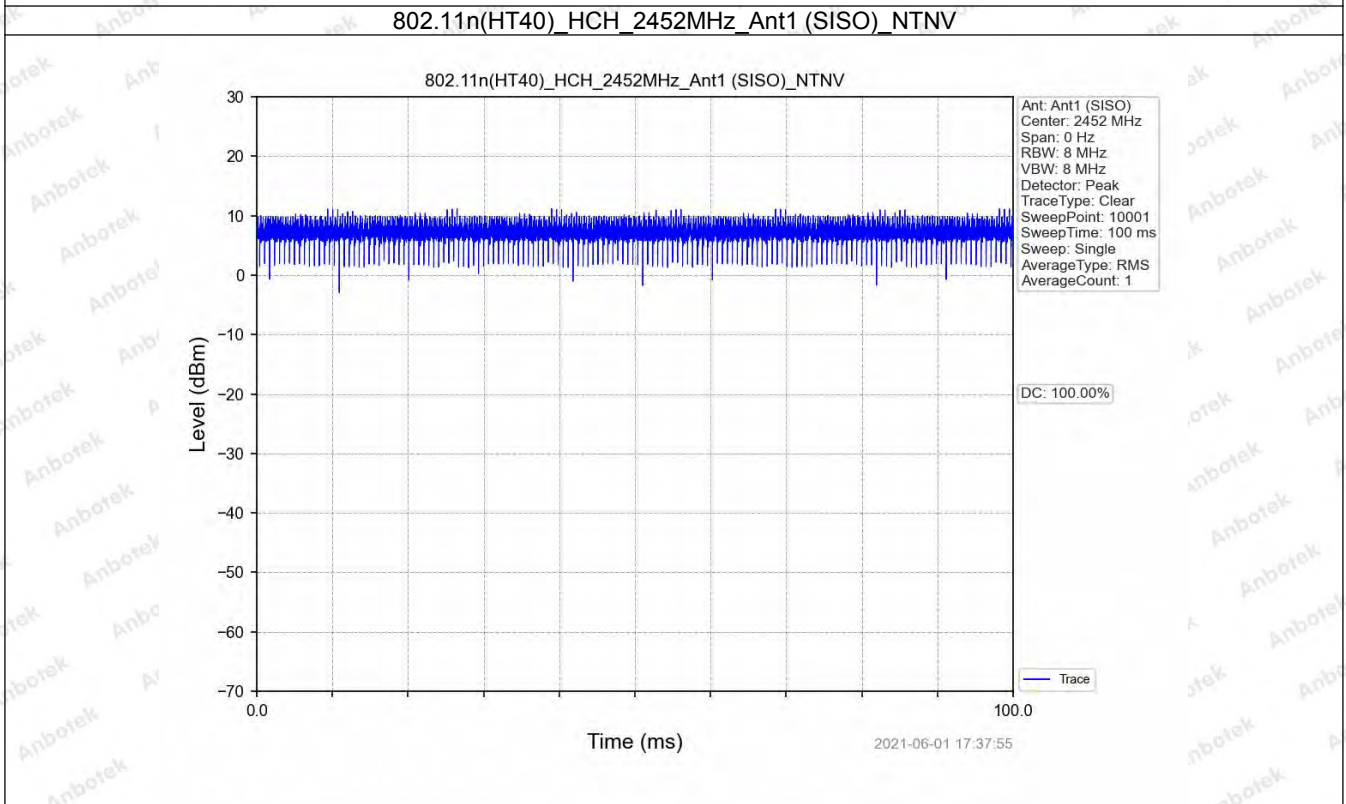
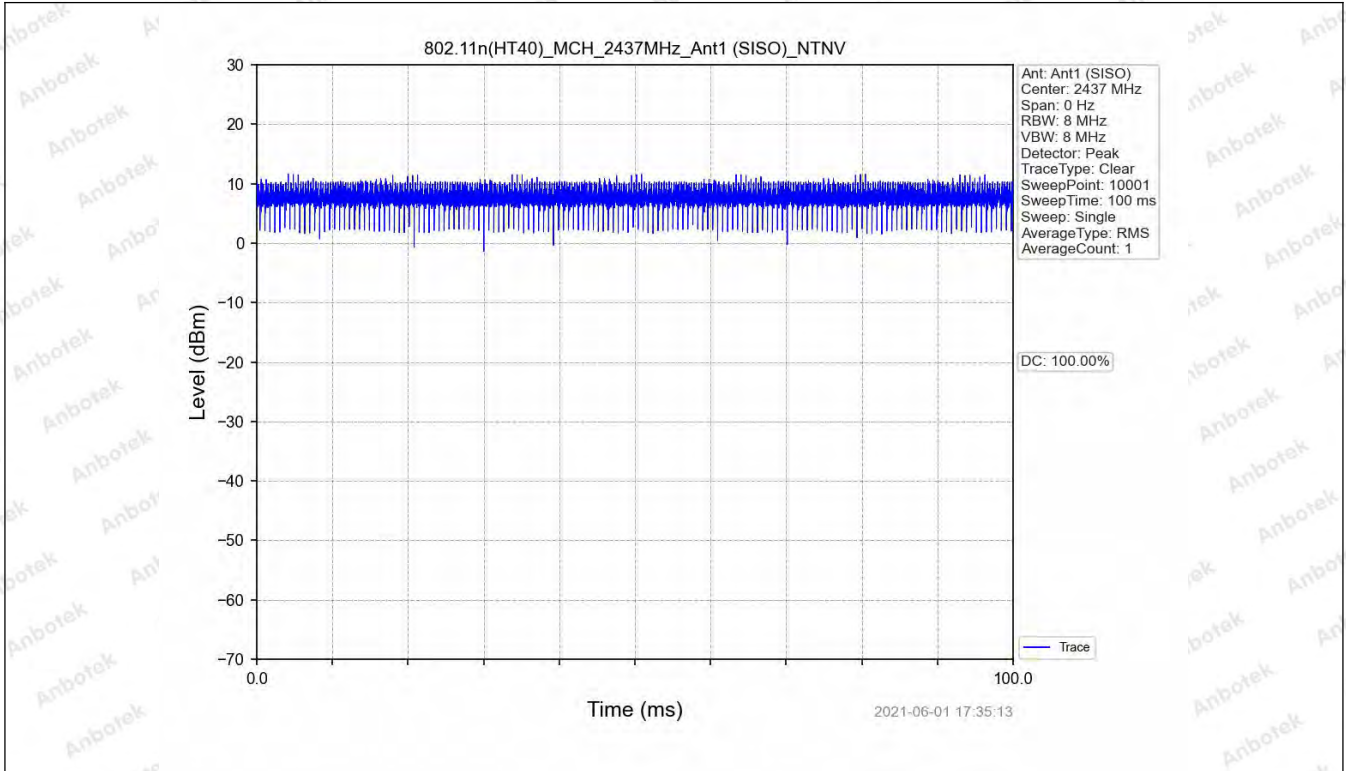
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



2. Bandwidth

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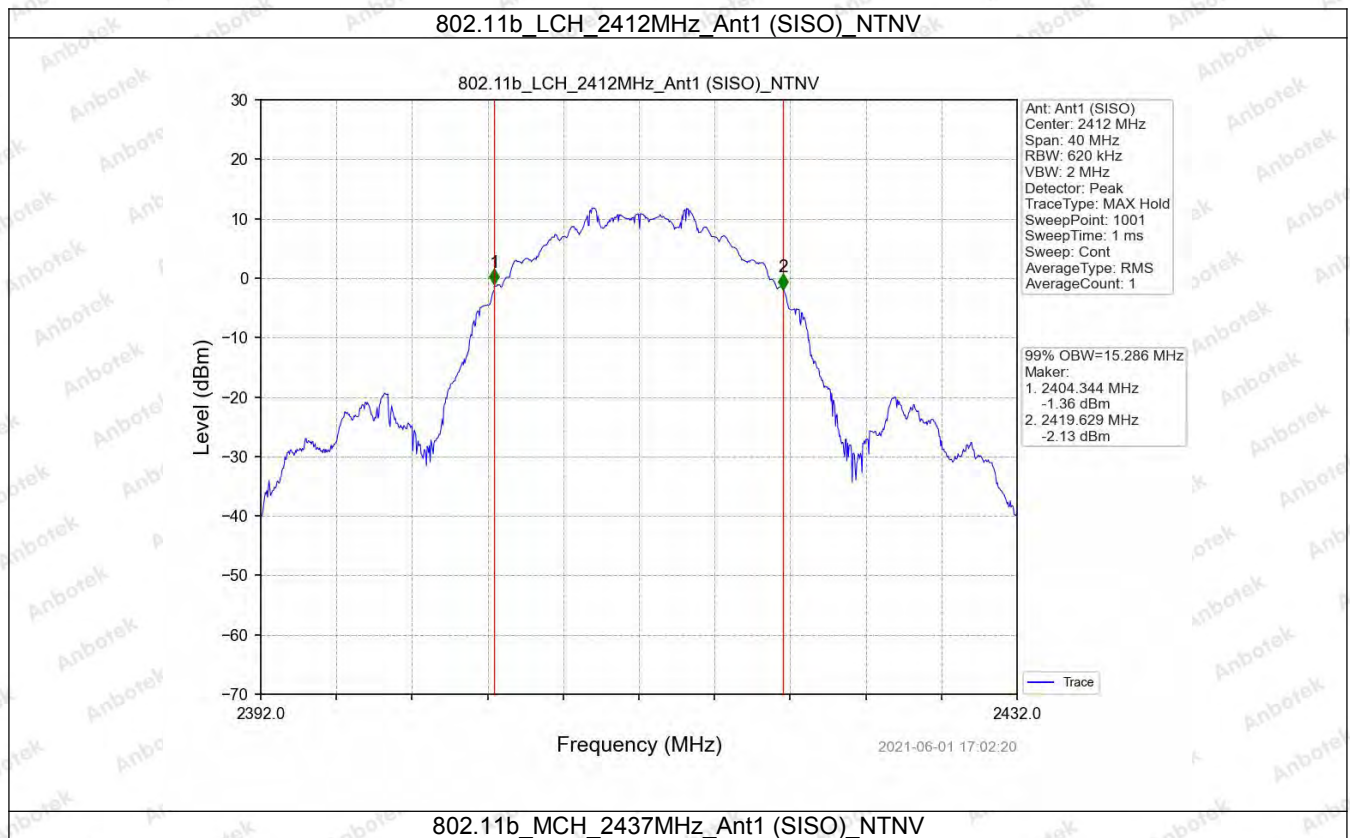
2.1 OBW

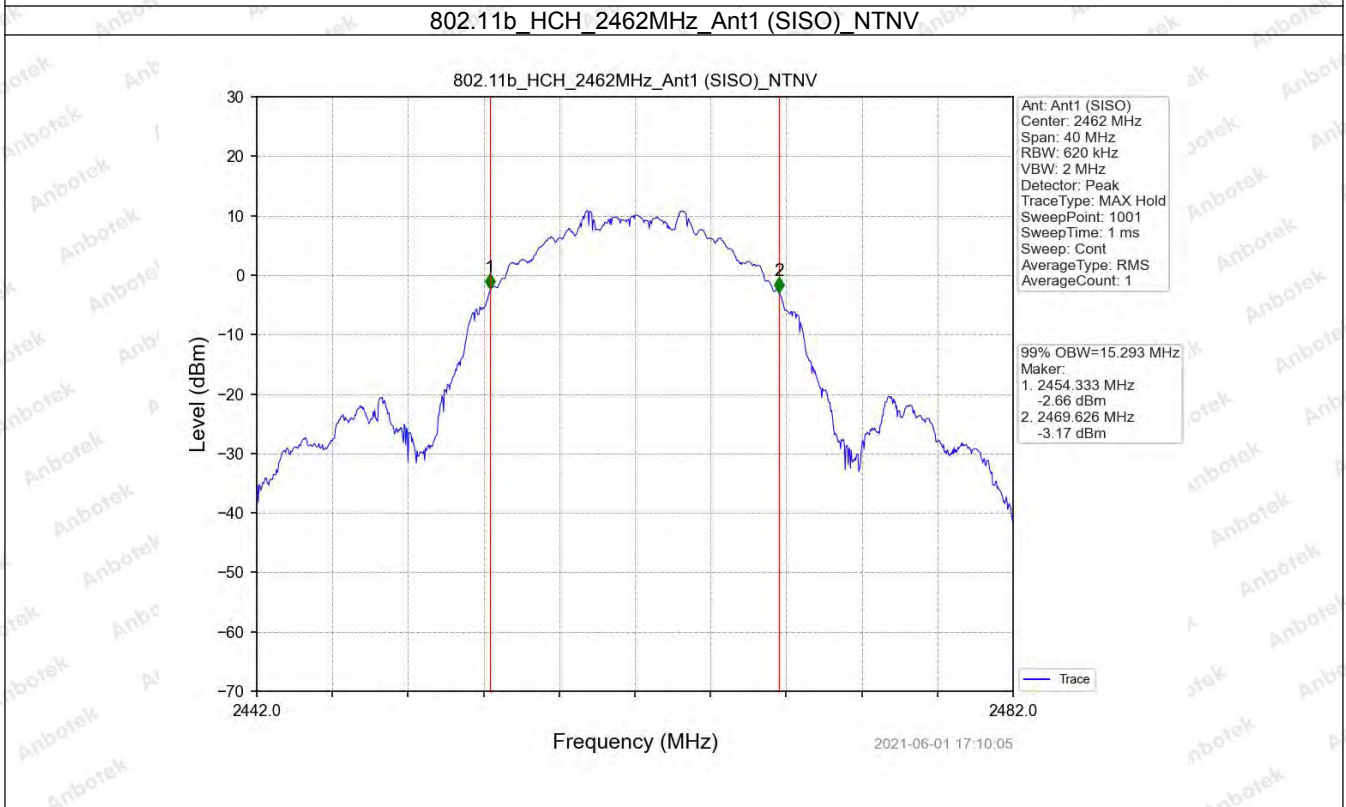
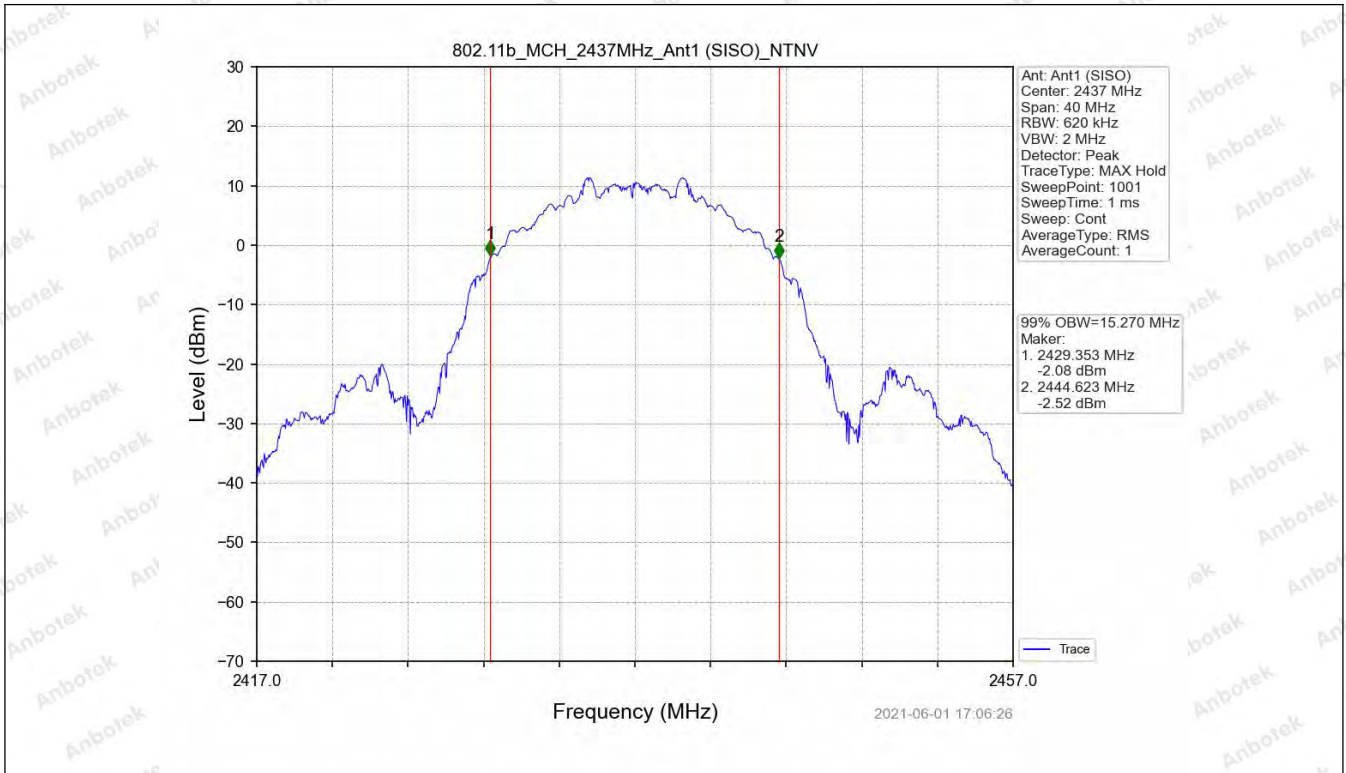
2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	15.286	/	Note1
		2437	/	/	15.270	/	Note1
		2462	/	/	15.293	/	Note1
802.11g	SISO	2412	/	/	17.555	/	Note1
		2437	/	/	17.559	/	Note1
		2462	/	/	17.549	/	Note1
802.11n (HT20)	SISO	2412	/	/	18.433	/	Note1
		2437	/	/	18.423	/	Note1
		2462	/	/	18.420	/	Note1
802.11n (HT40)	SISO	2422	/	/	35.778	/	Note1
		2437	/	/	35.783	/	Note1
		2452	/	/	35.764	/	Note1

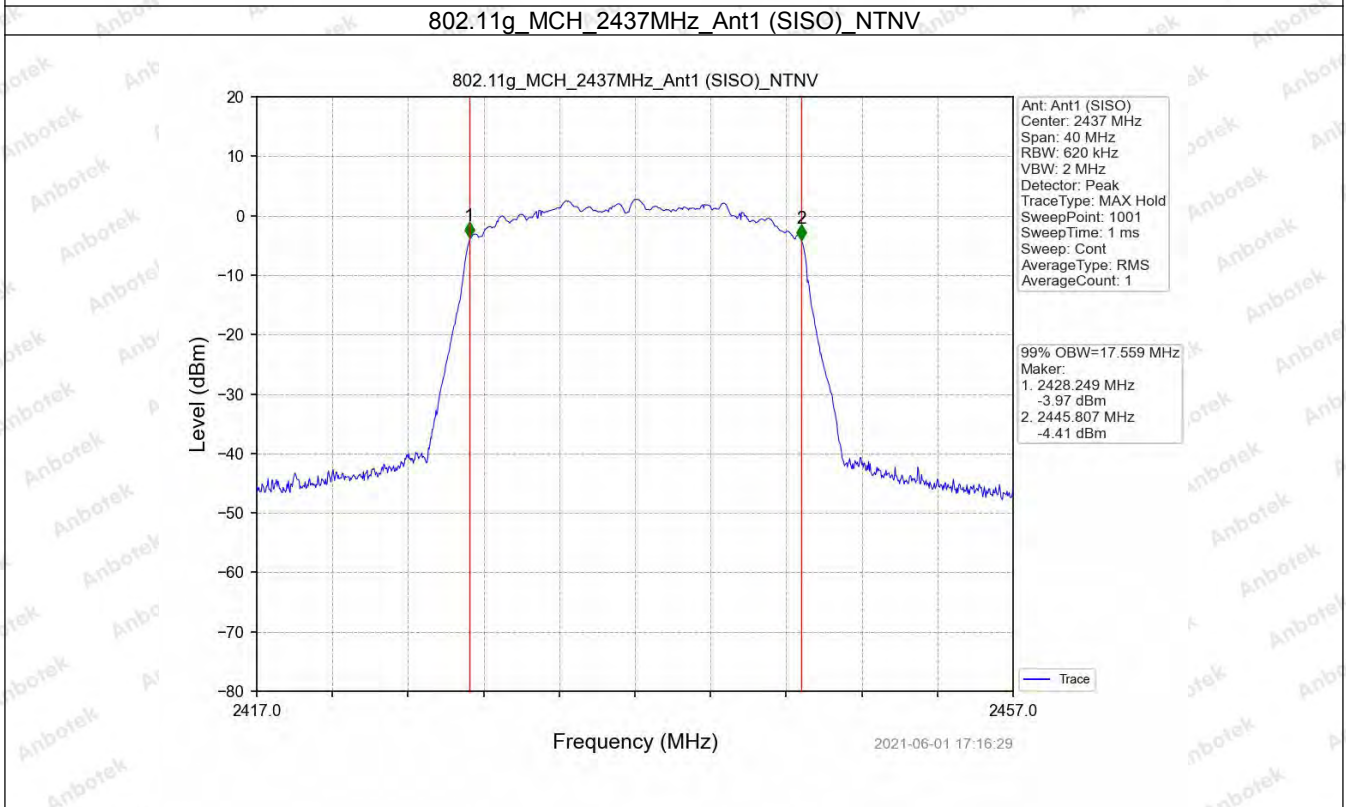
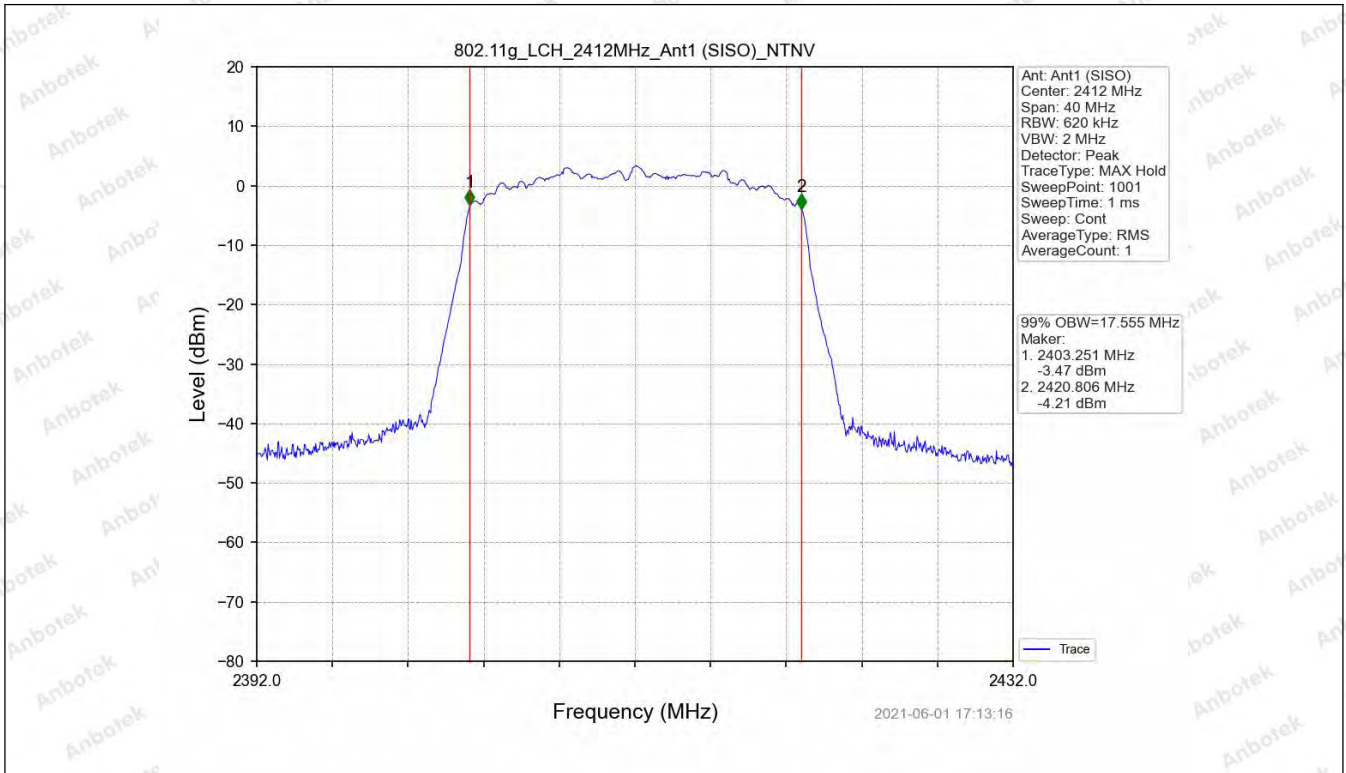
Note1: Only for Report Use

2.1.2 Test Graph

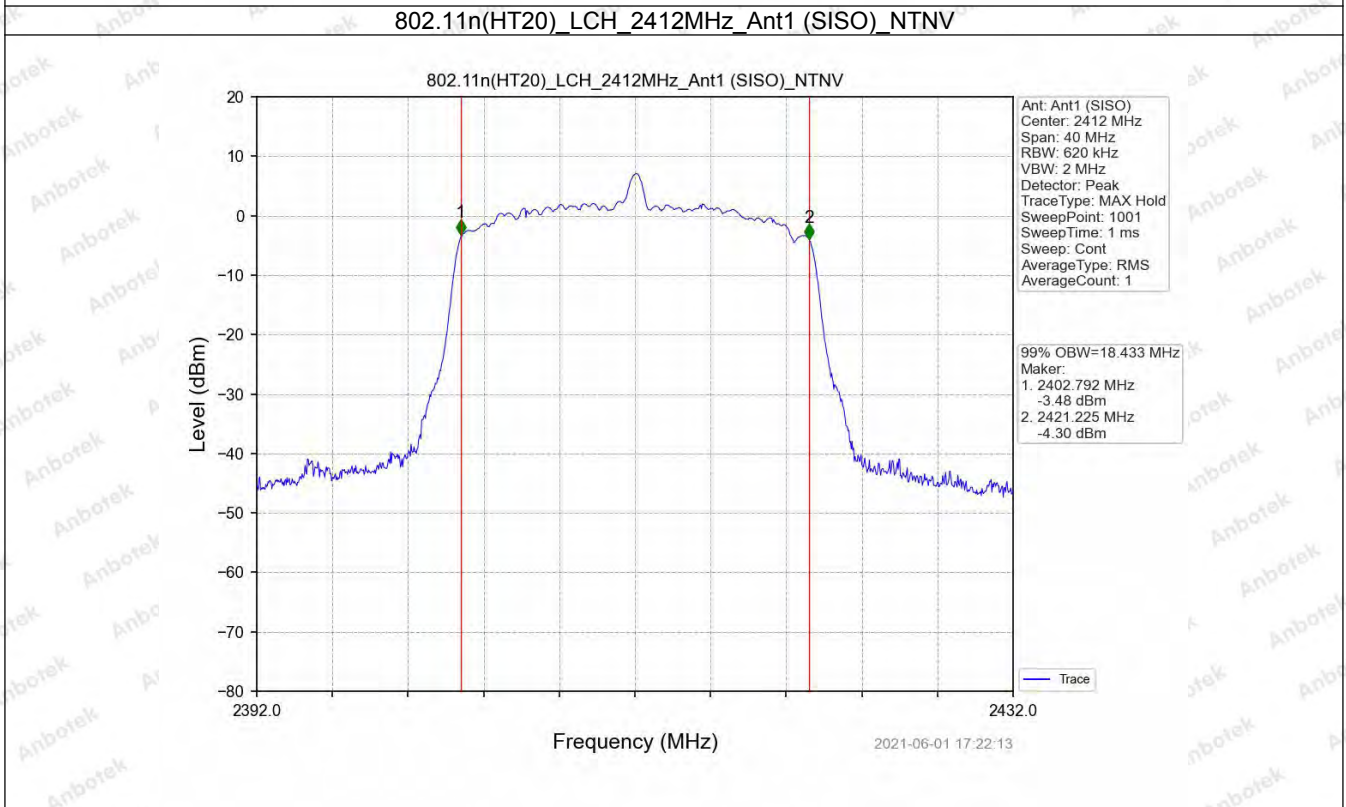
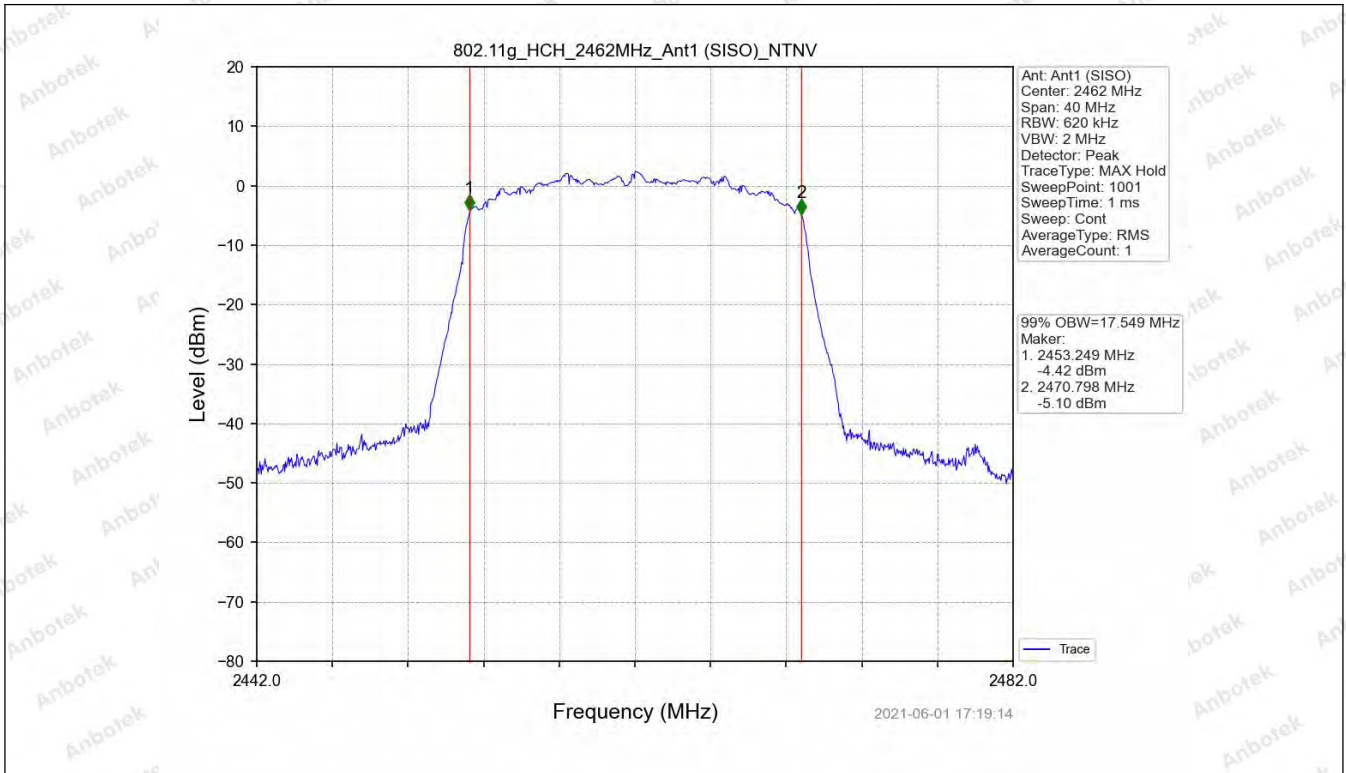




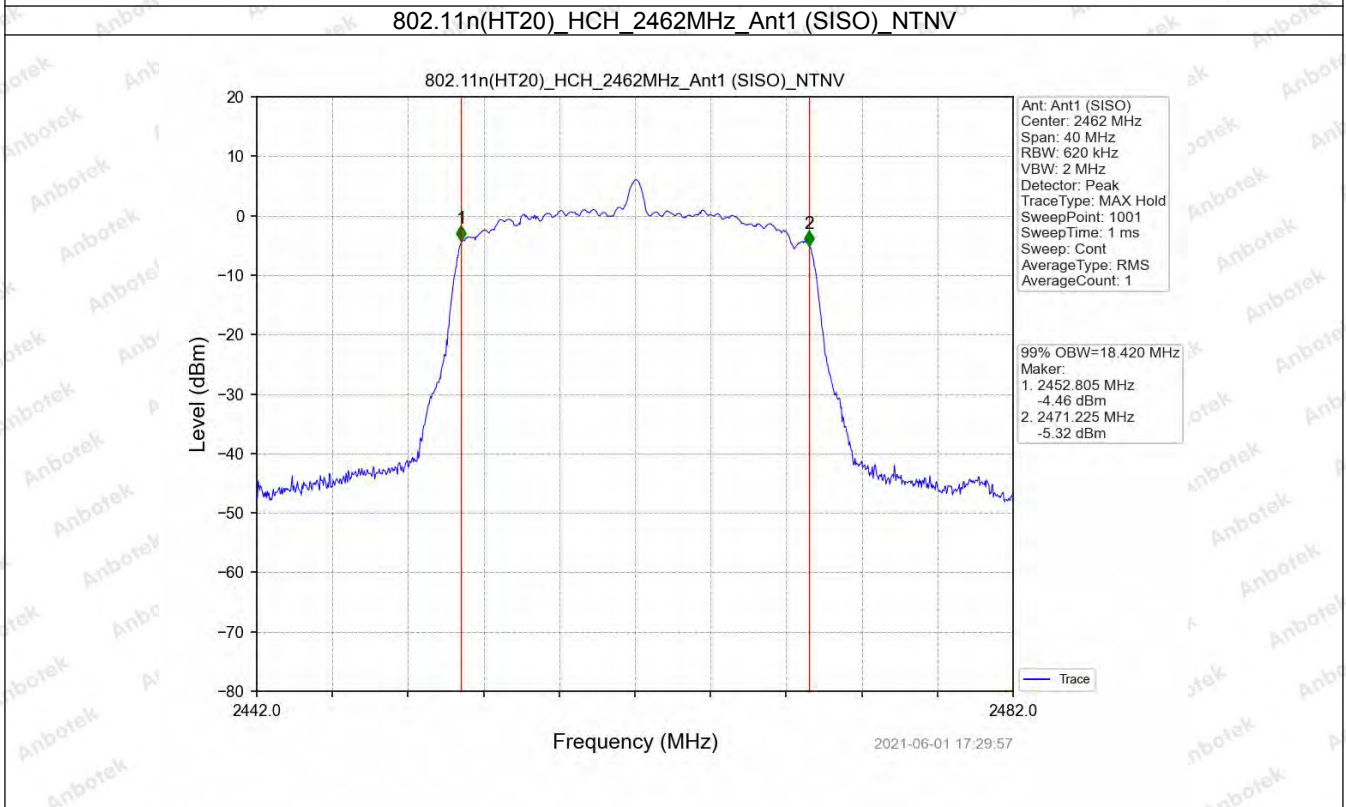
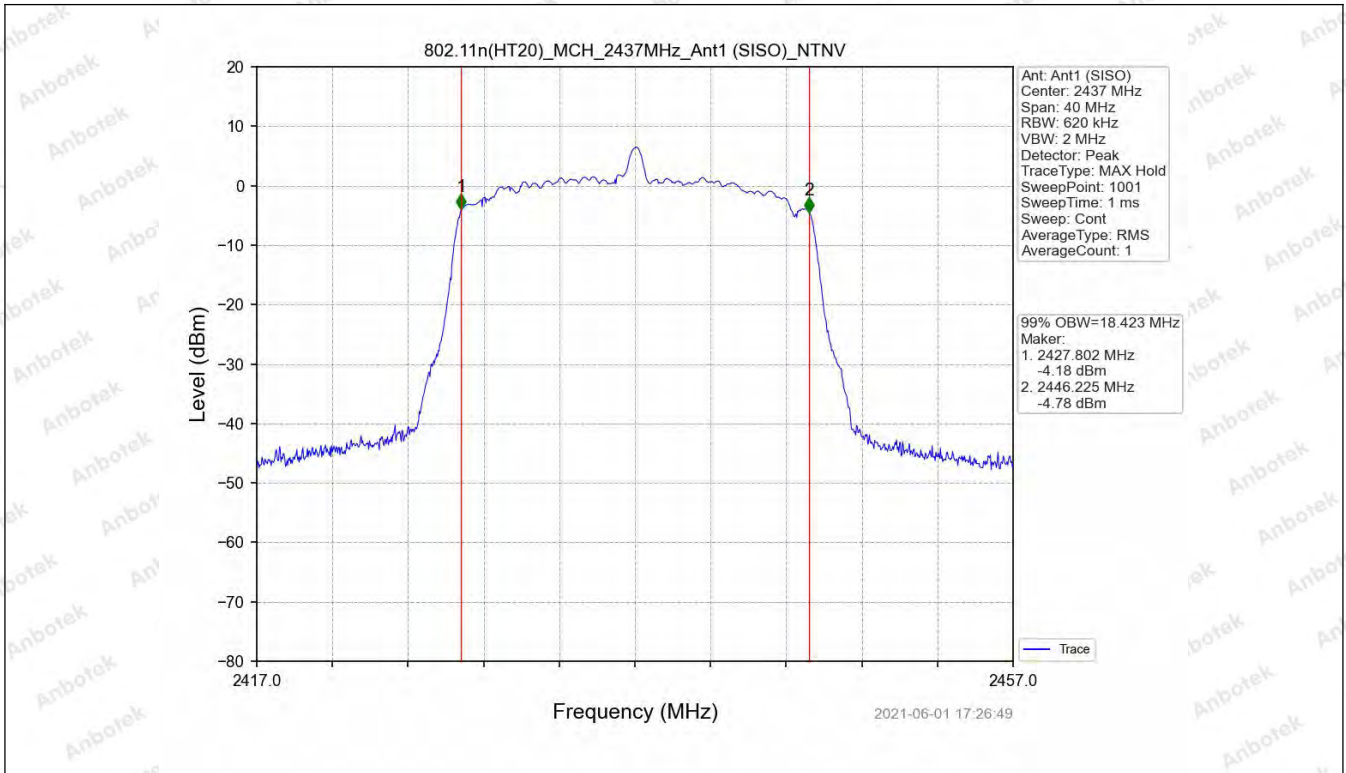
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



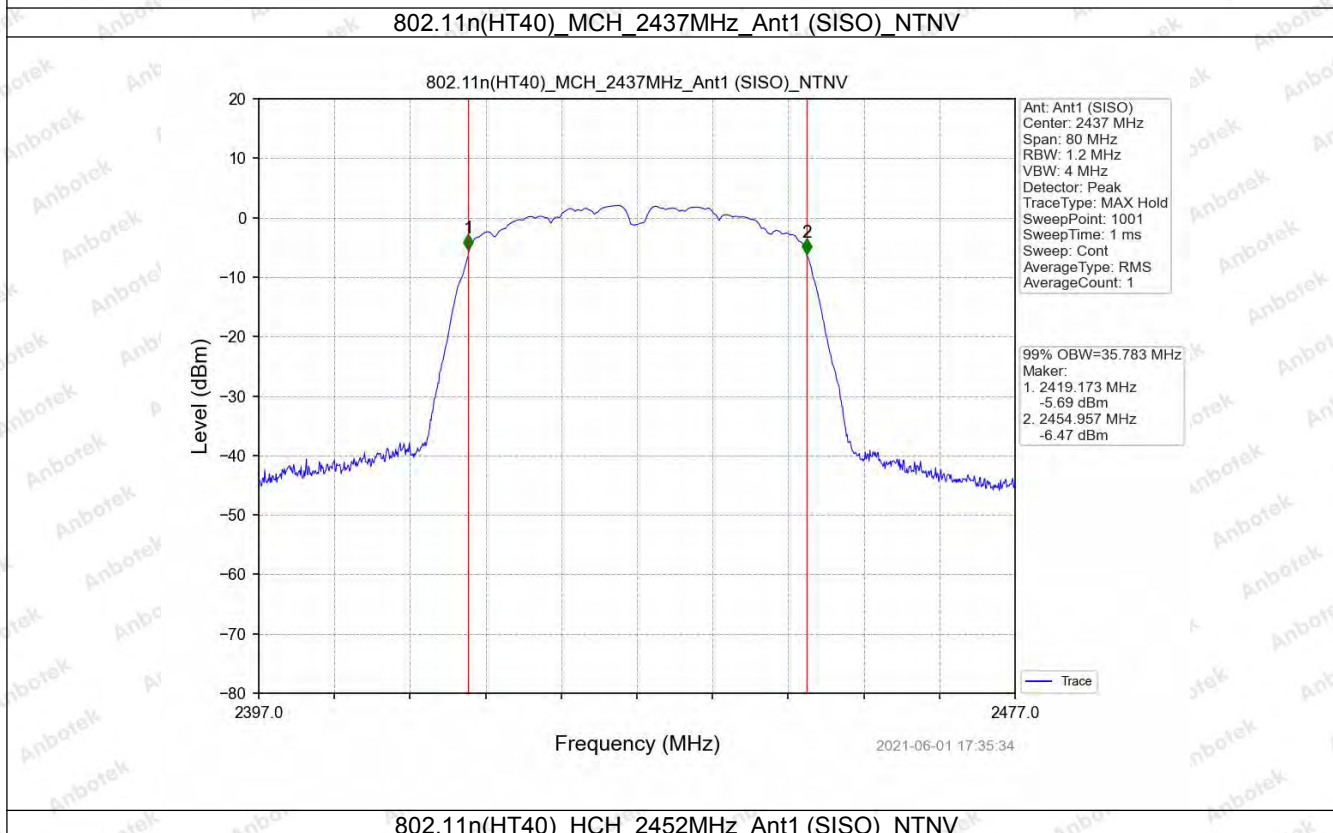
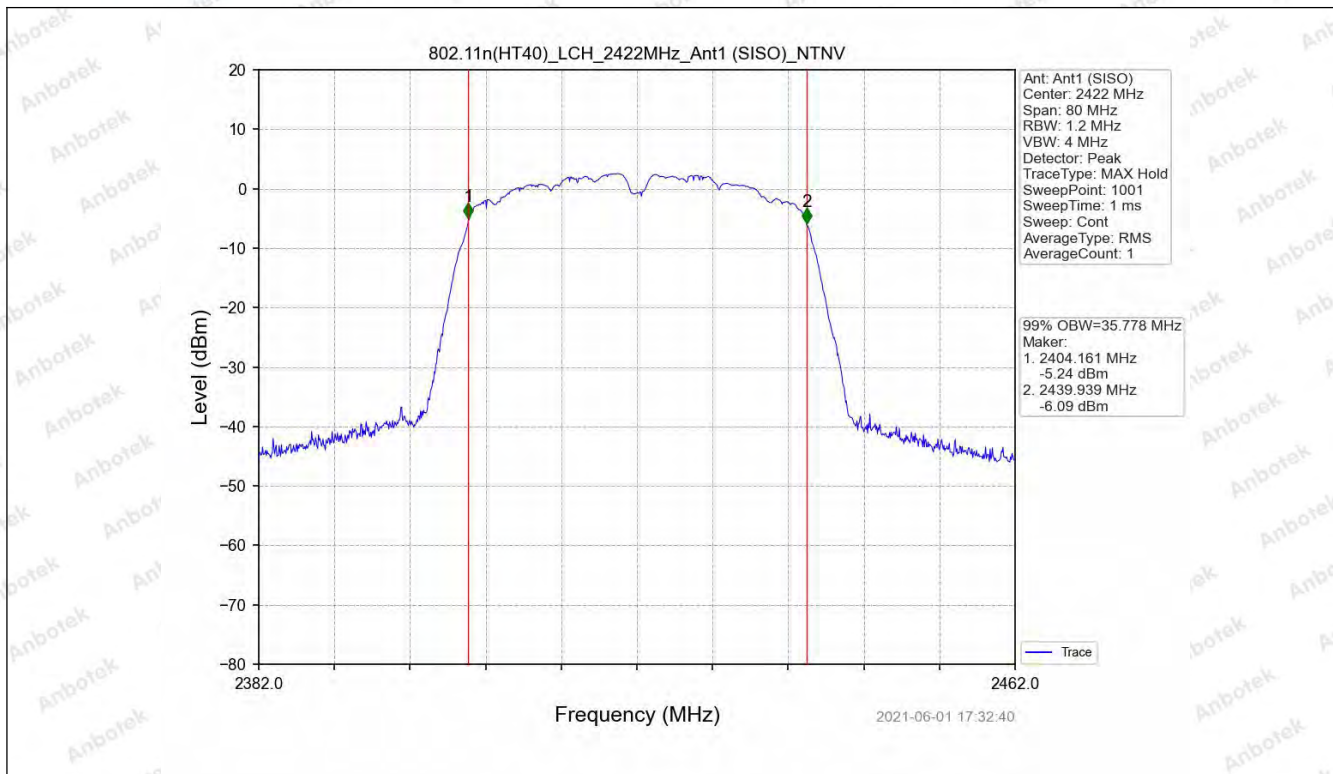
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



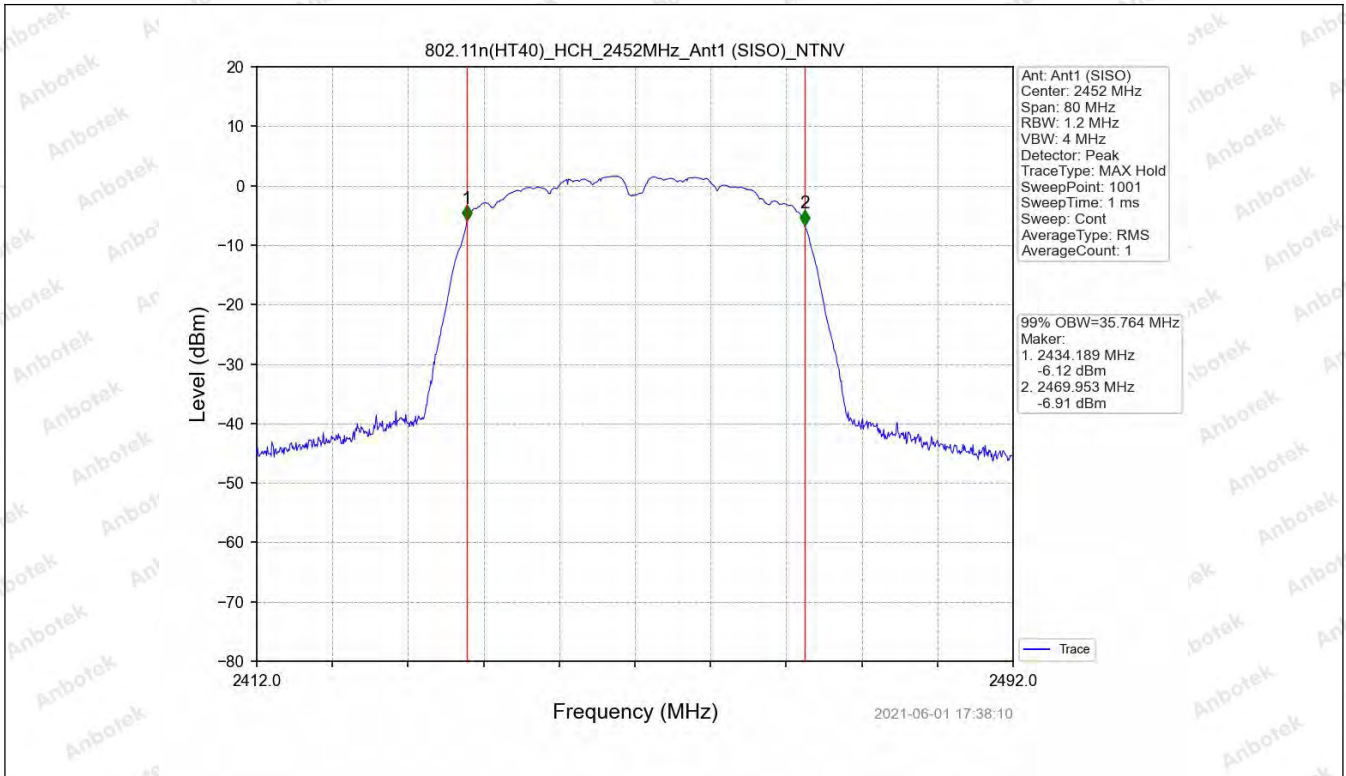
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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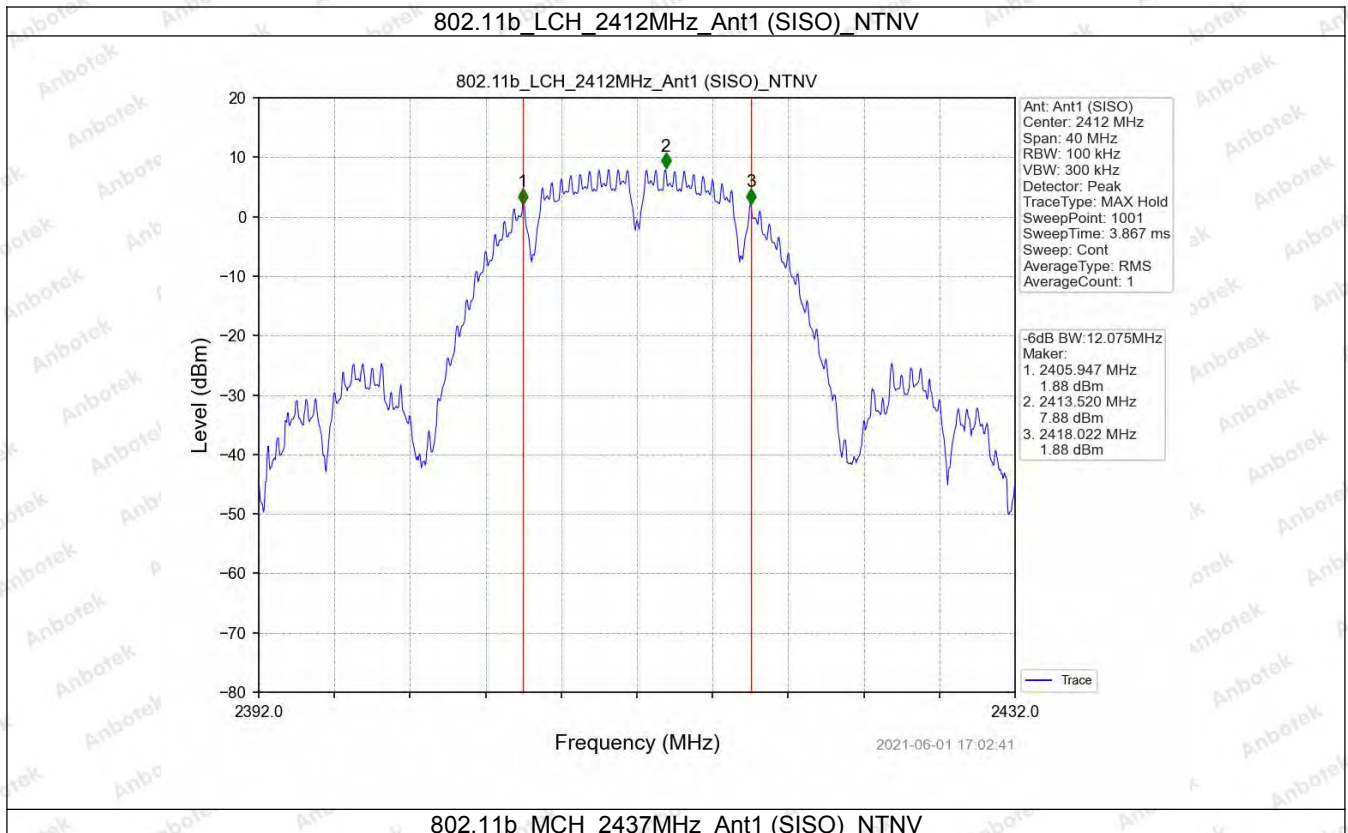
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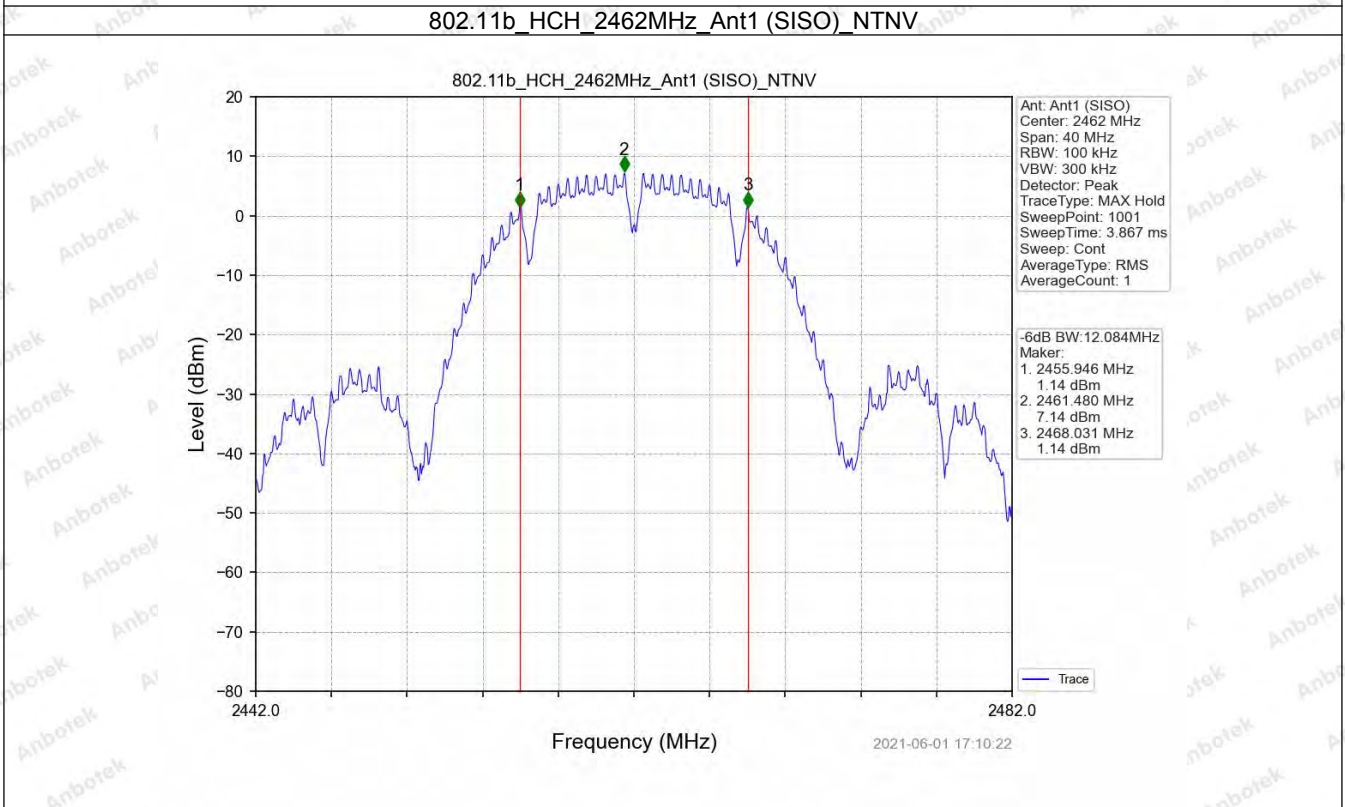
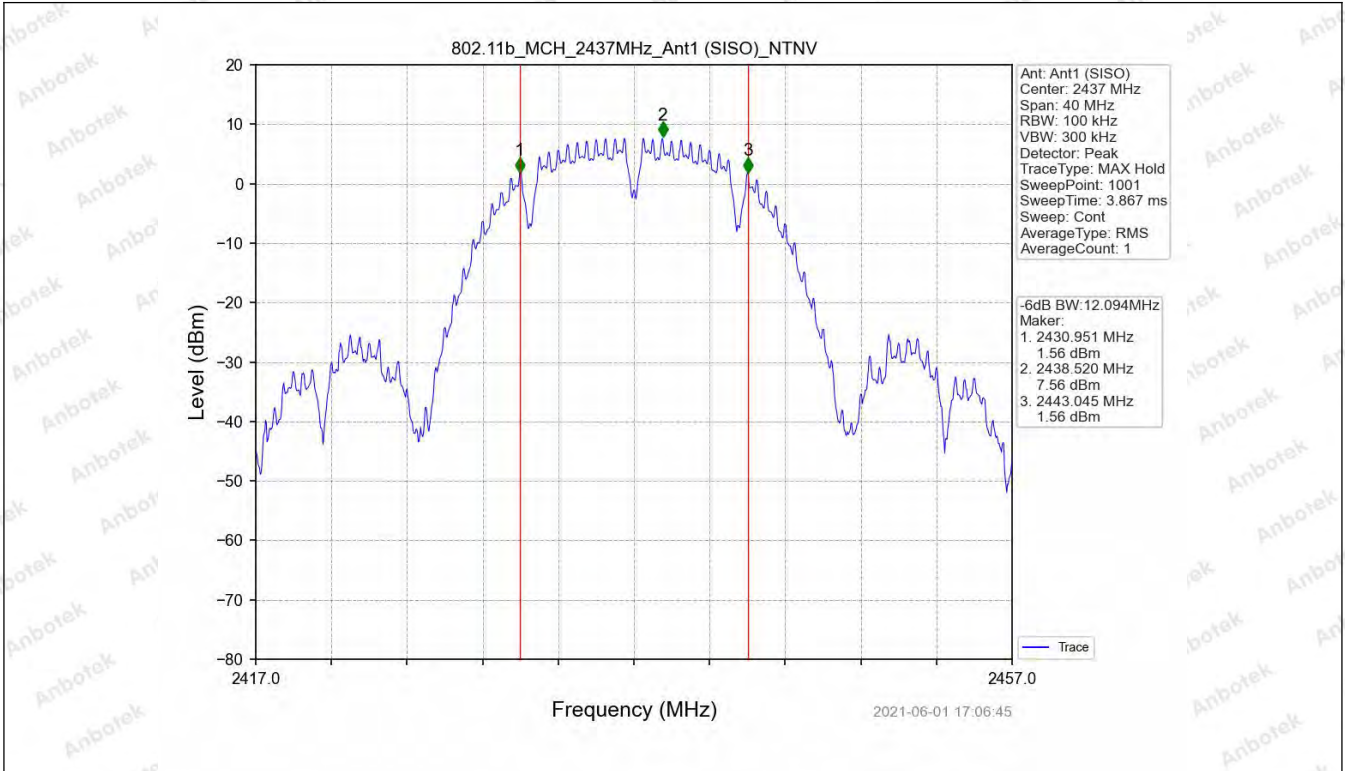
2.2 XDB

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	12.075	>=0.5	Pass
		2437	/	/	12.094	>=0.5	Pass
		2462	/	/	12.084	>=0.5	Pass
802.11g	SISO	2412	/	/	15.180	>=0.5	Pass
		2437	/	/	15.178	>=0.5	Pass
		2462	/	/	15.183	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	13.824	>=0.5	Pass
		2437	/	/	13.830	>=0.5	Pass
		2462	/	/	13.824	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	35.113	>=0.5	Pass
		2437	/	/	35.114	>=0.5	Pass
		2452	/	/	35.109	>=0.5	Pass

2.2.2 Test Graph



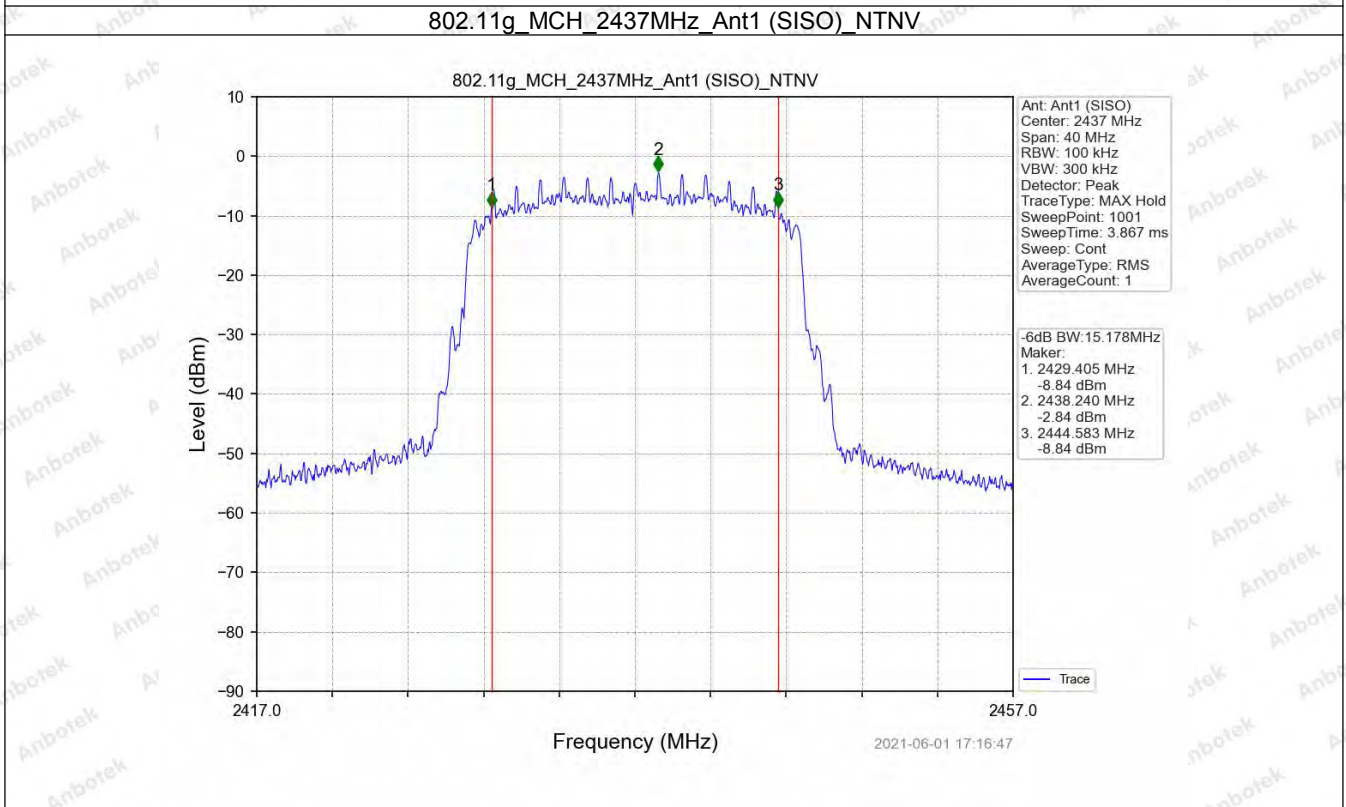
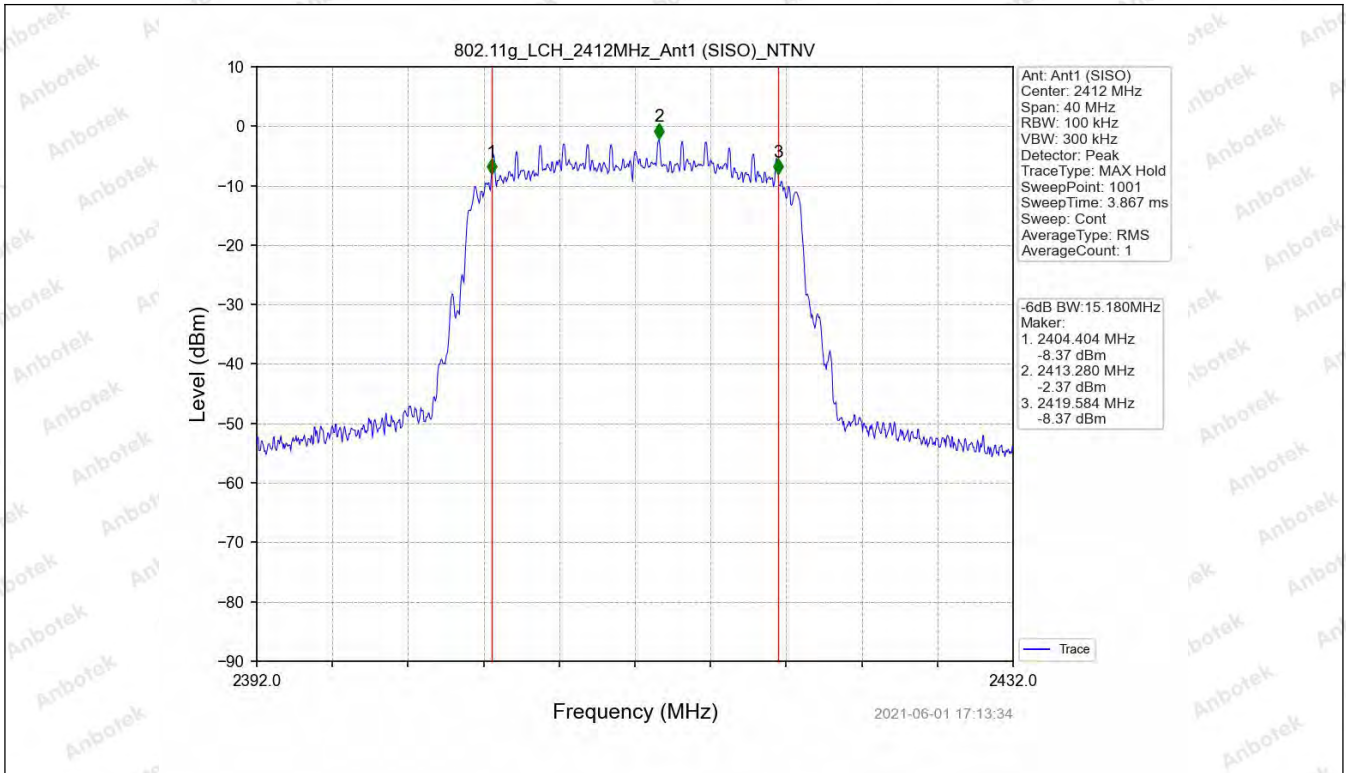


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

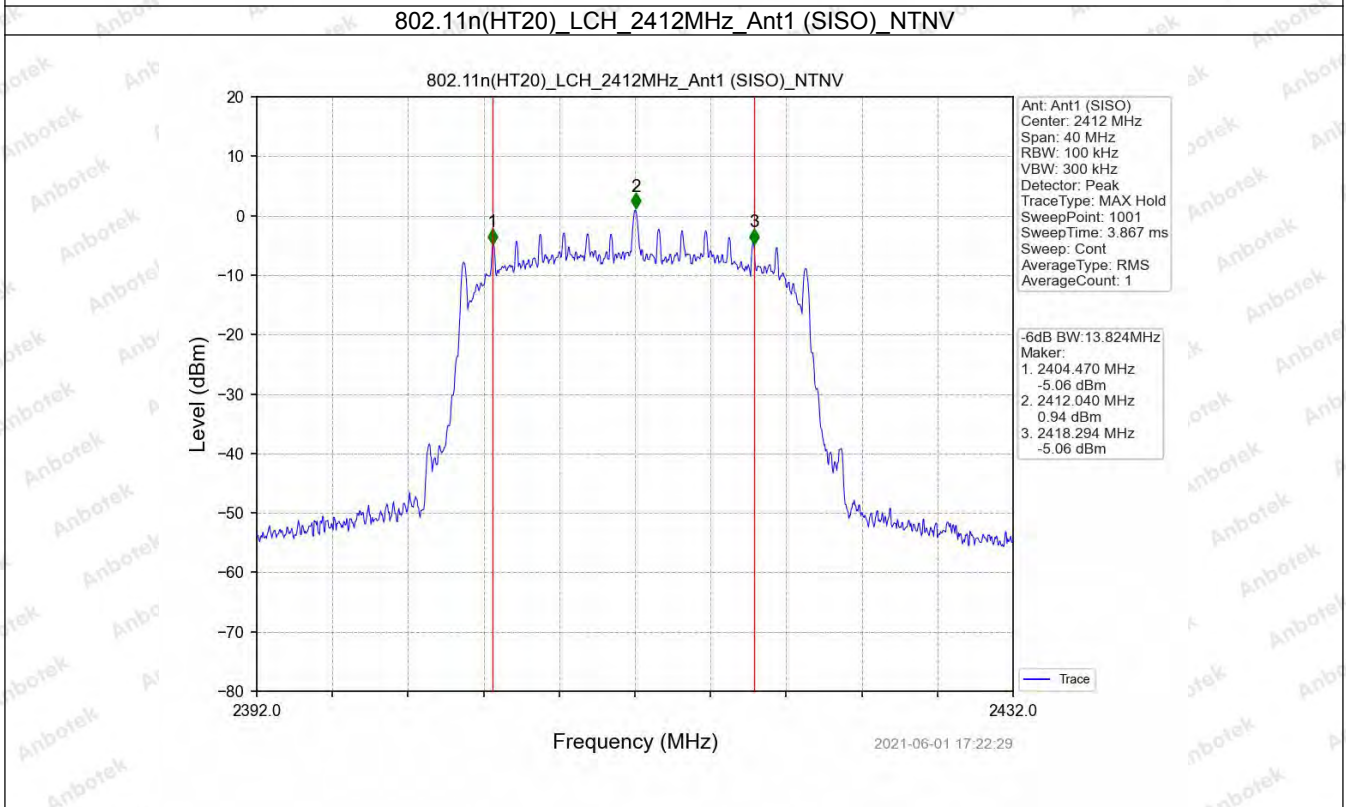
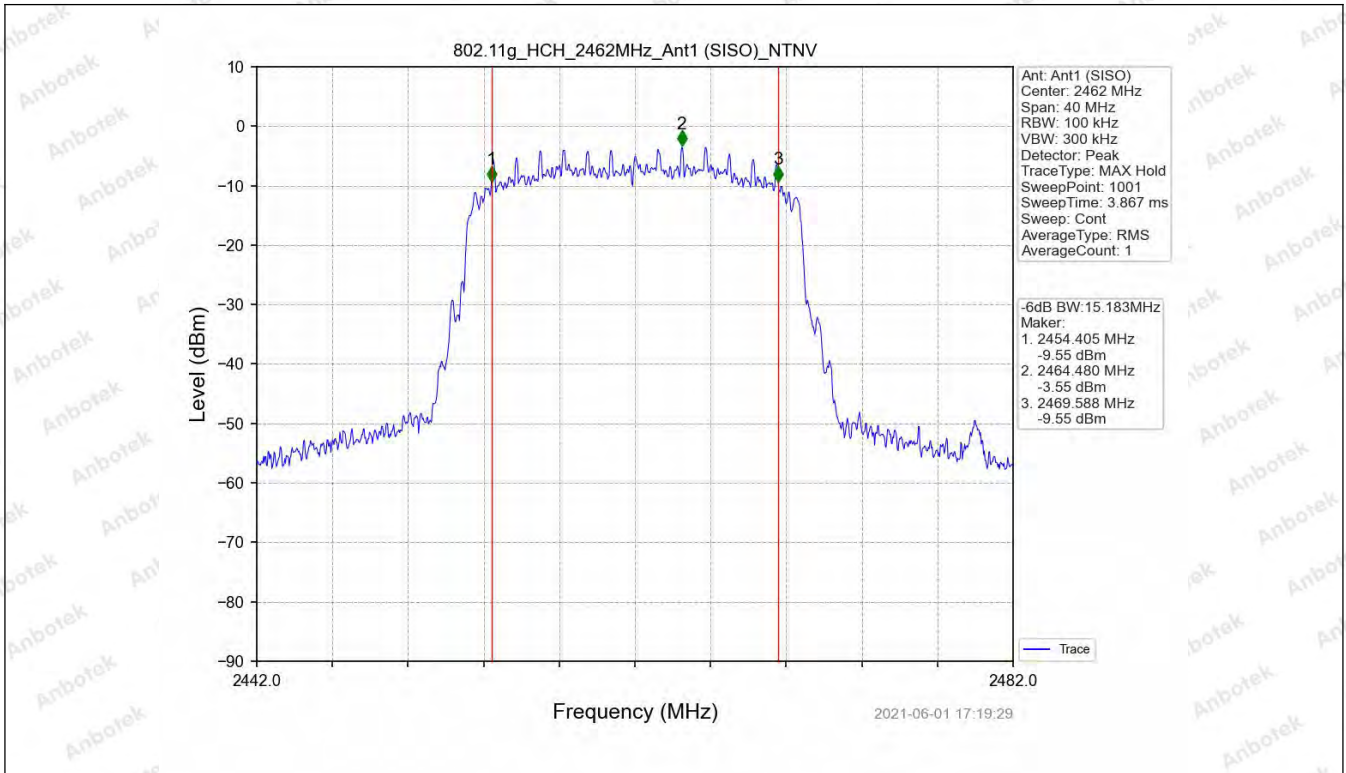
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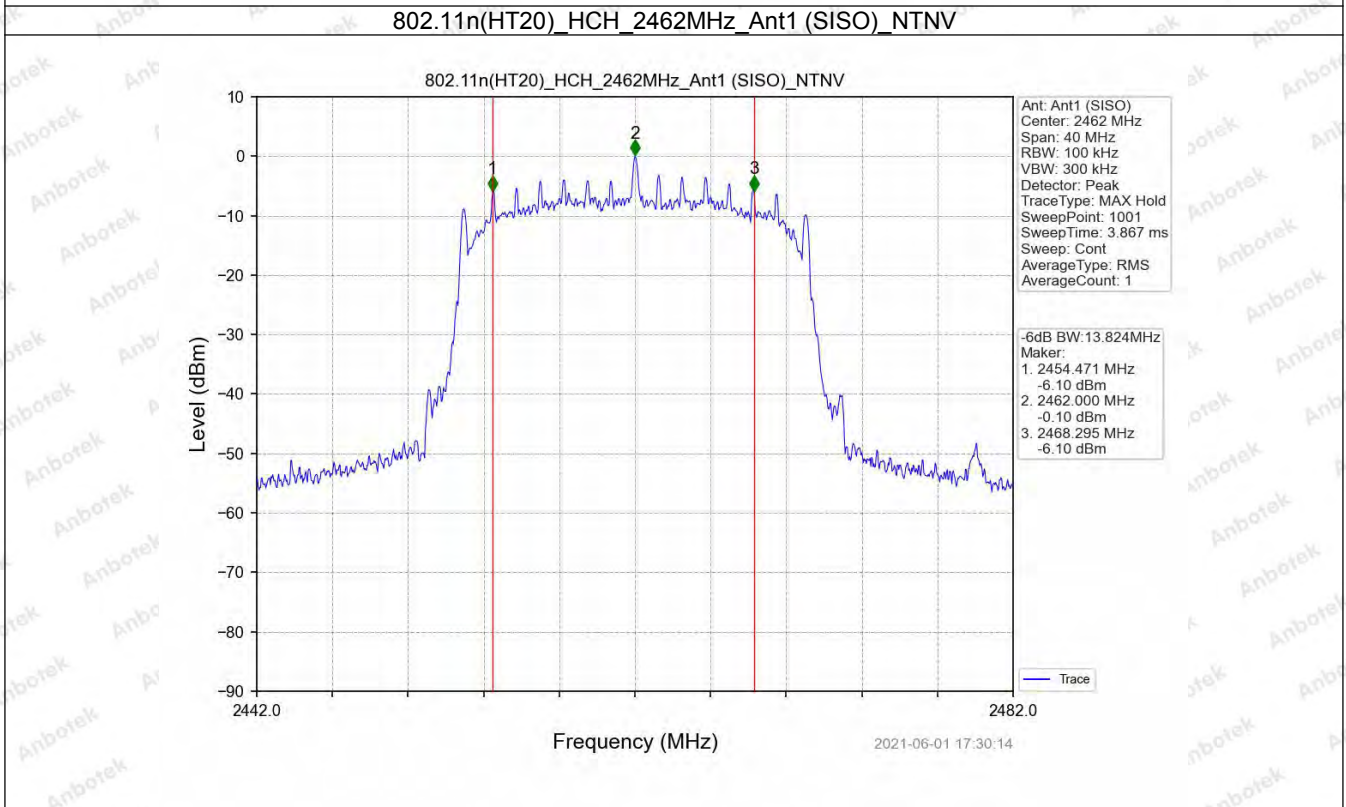
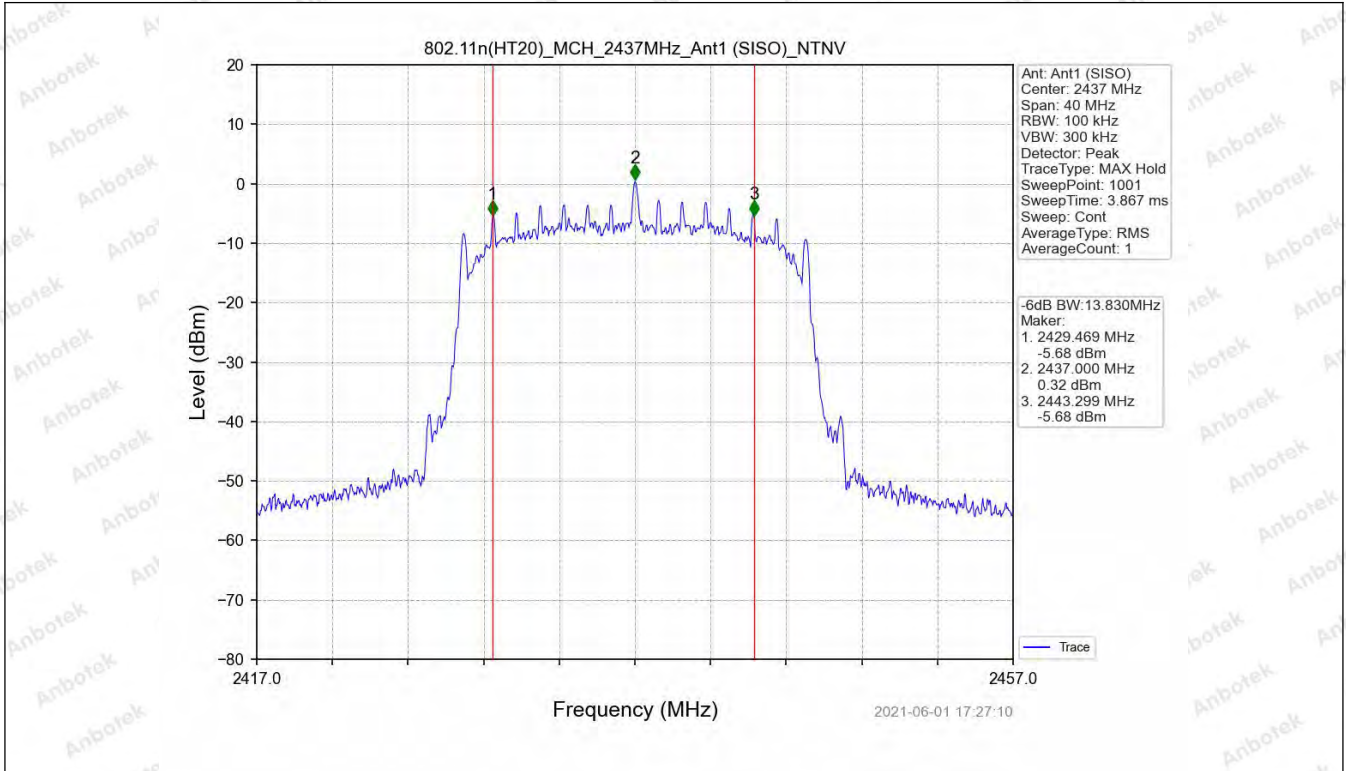
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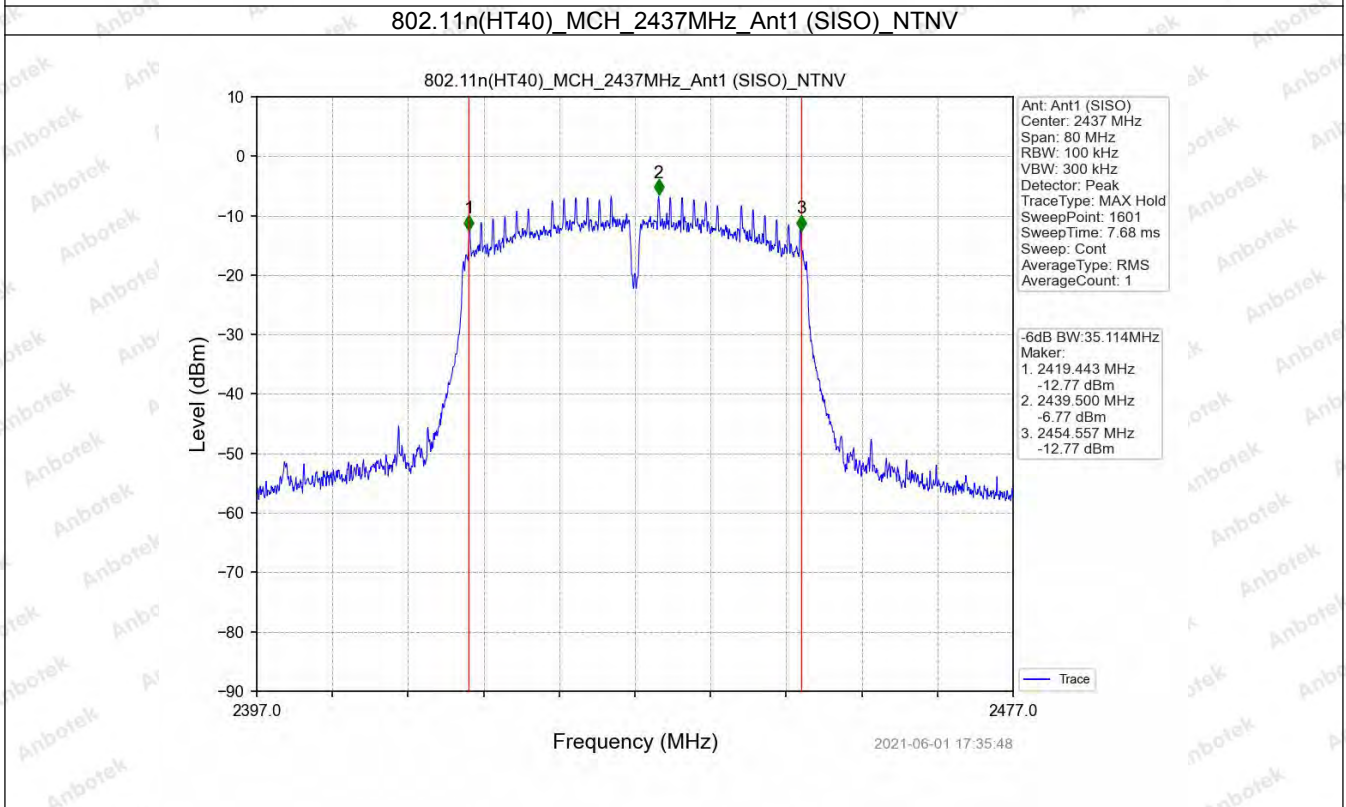
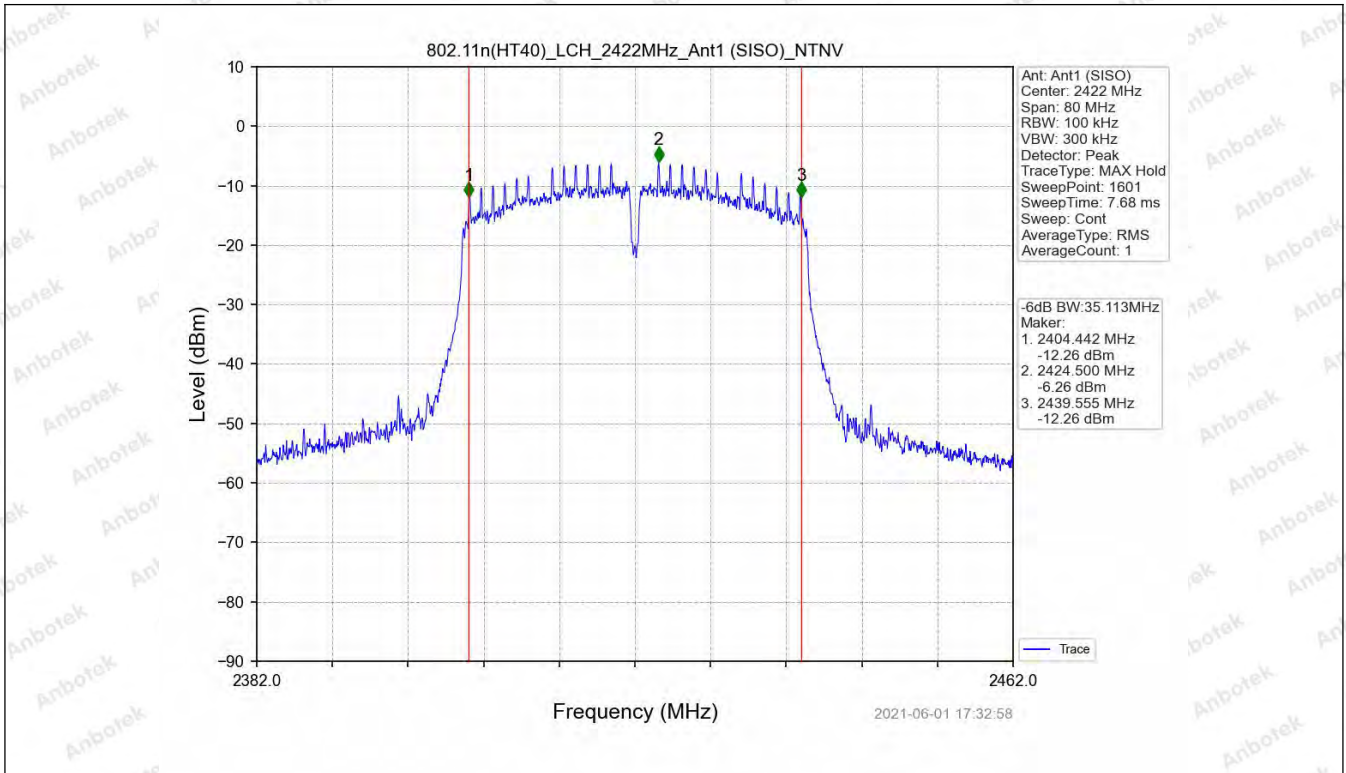
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



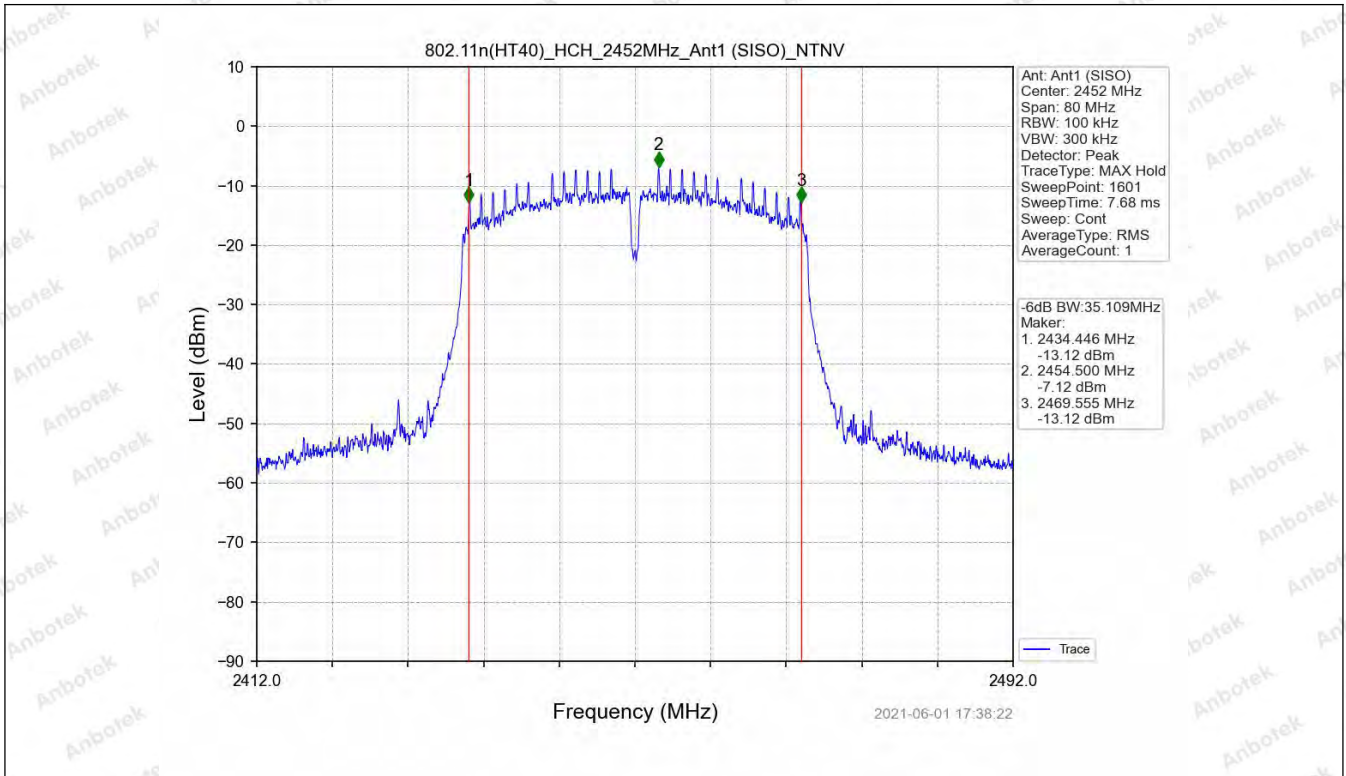
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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	/	/	21.15	<=30	Pass
		2437	/	/	20.81	<=30	Pass
		2462	/	/	20.45	<=30	Pass
802.11g	SISO	2412	/	/	15.61	<=30	Pass
		2437	/	/	15.08	<=30	Pass
		2462	/	/	14.69	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.52	<=30	Pass
		2437	/	/	14.94	<=30	Pass
		2462	/	/	14.51	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	14.26	<=30	Pass
		2437	/	/	13.82	<=30	Pass
		2452	/	/	13.45	<=30	Pass

Note1: Antenna Gain: 0 dBi;

4. Maximum Power Spectral Density

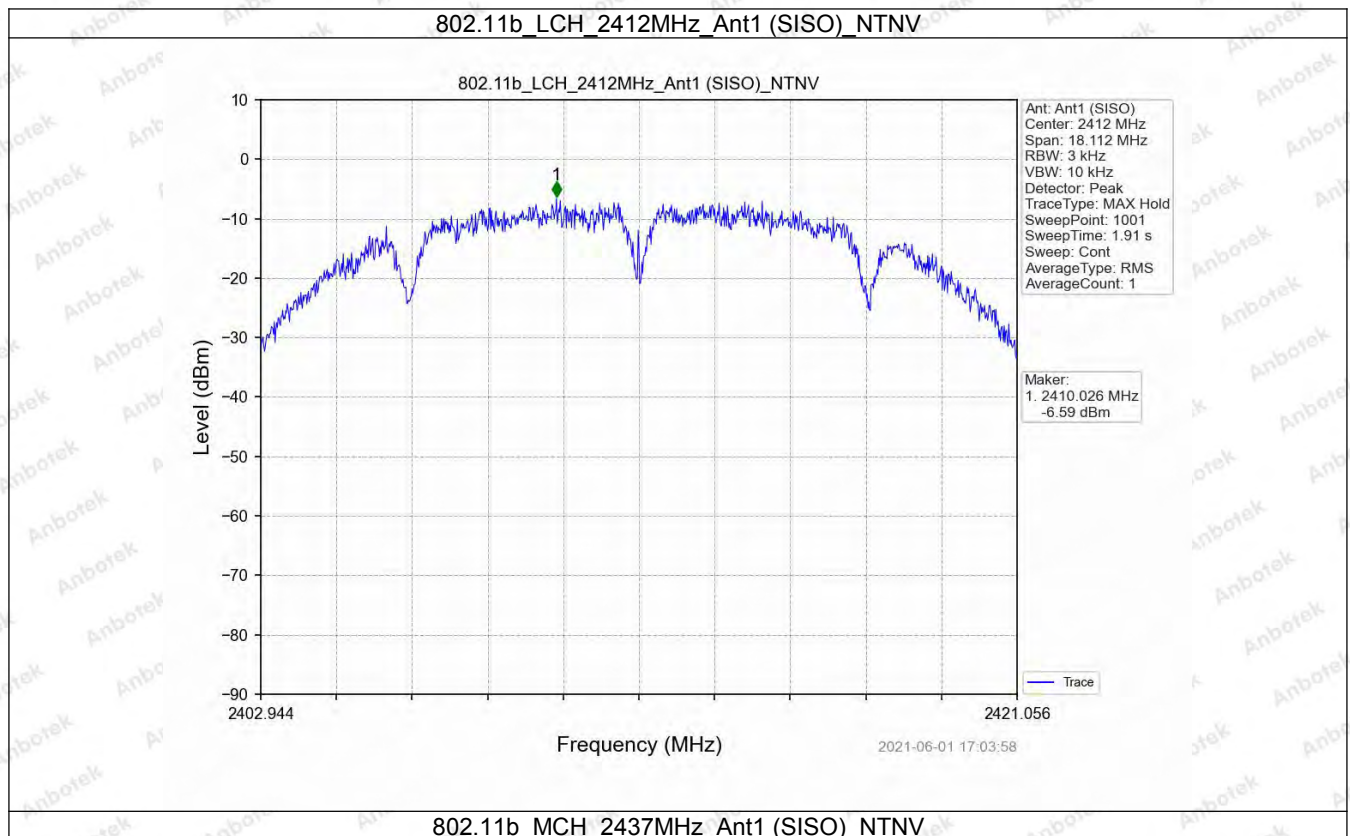
4.1 PSD

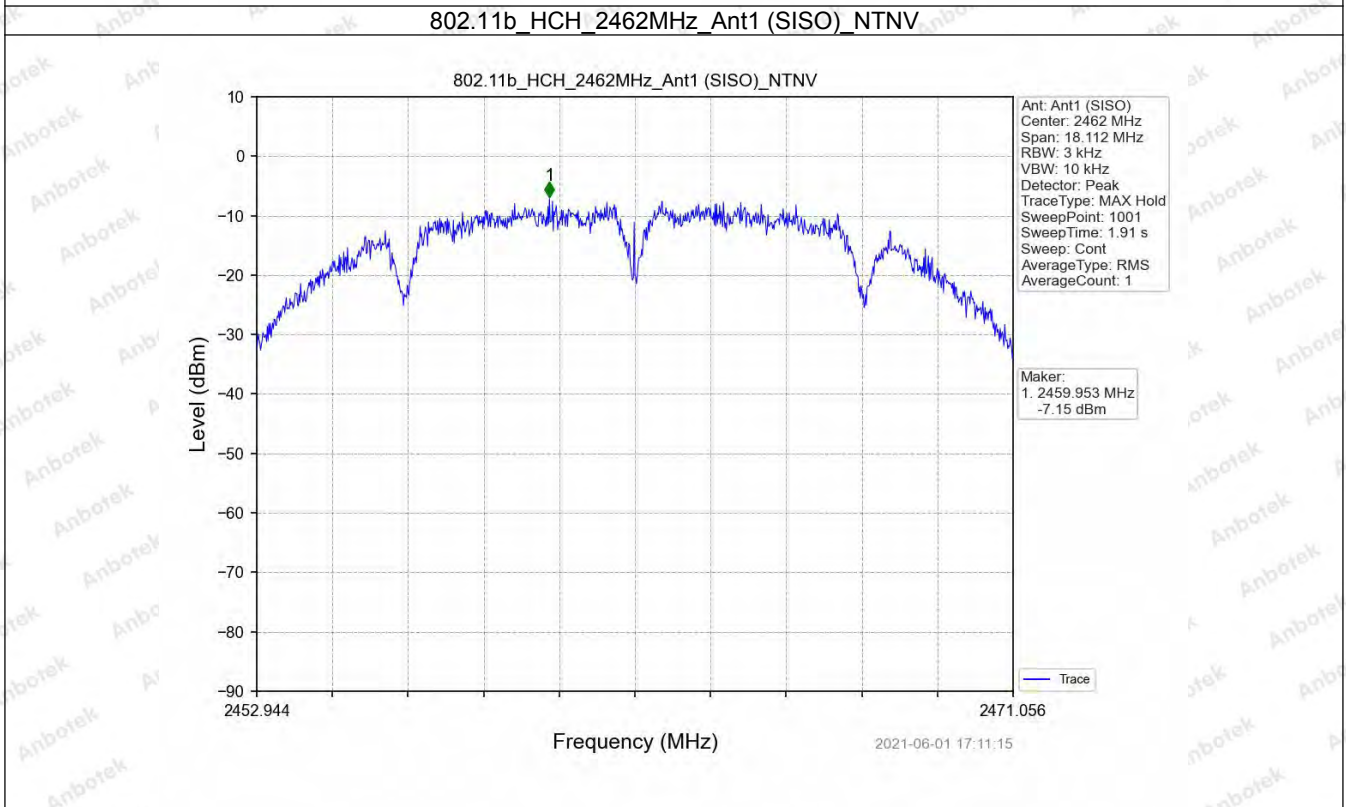
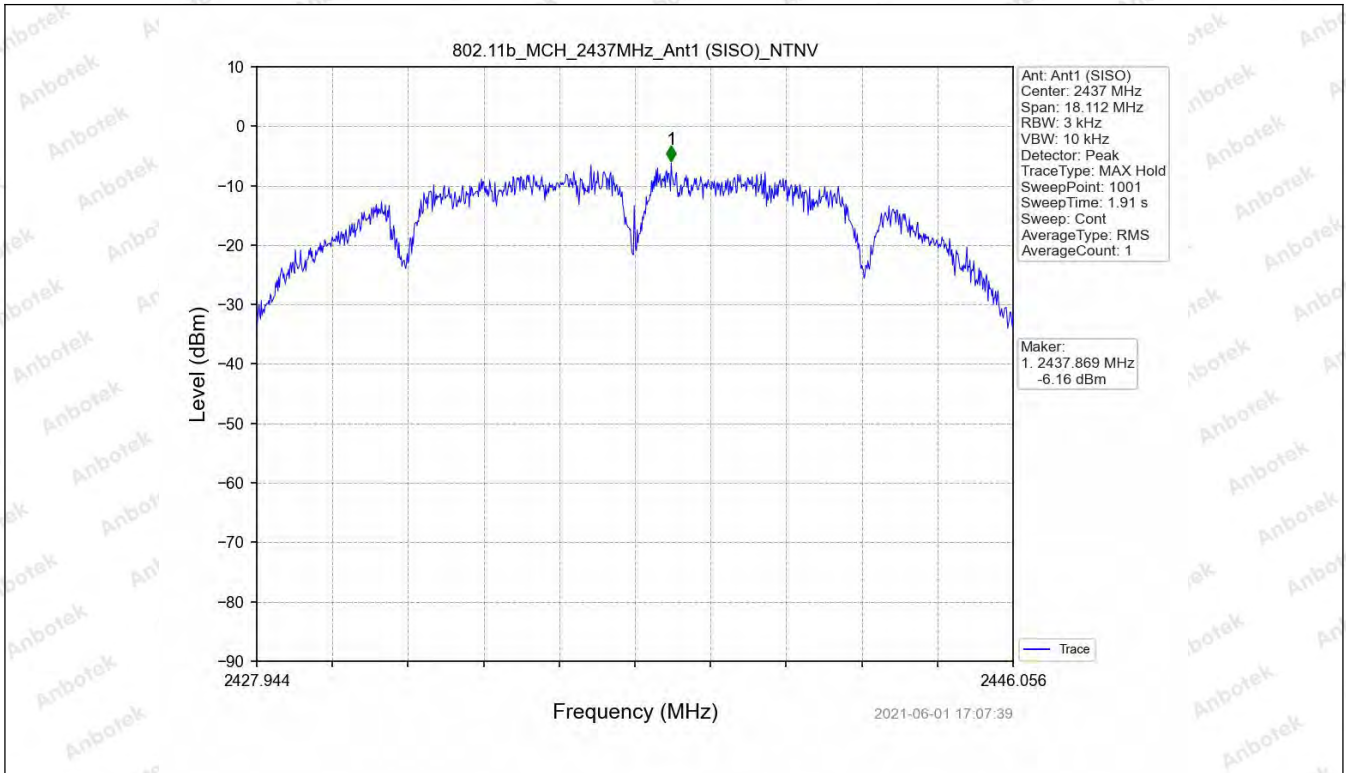
4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Limit (dBm/3kHz)	Verdict
					Ant1			
802.11b	SISO	2412	/	/	-6.59		<=8	Pass
		2437	/	/	-6.16		<=8	Pass
		2462	/	/	-7.15		<=8	Pass
802.11g	SISO	2412	/	/	-16.96		<=8	Pass
		2437	/	/	-16.76		<=8	Pass
		2462	/	/	-17.67		<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-16.17		<=8	Pass
		2437	/	/	-17.10		<=8	Pass
		2462	/	/	-18.20		<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-20.74		<=8	Pass
		2437	/	/	-21.08		<=8	Pass
		2452	/	/	-21.49		<=8	Pass

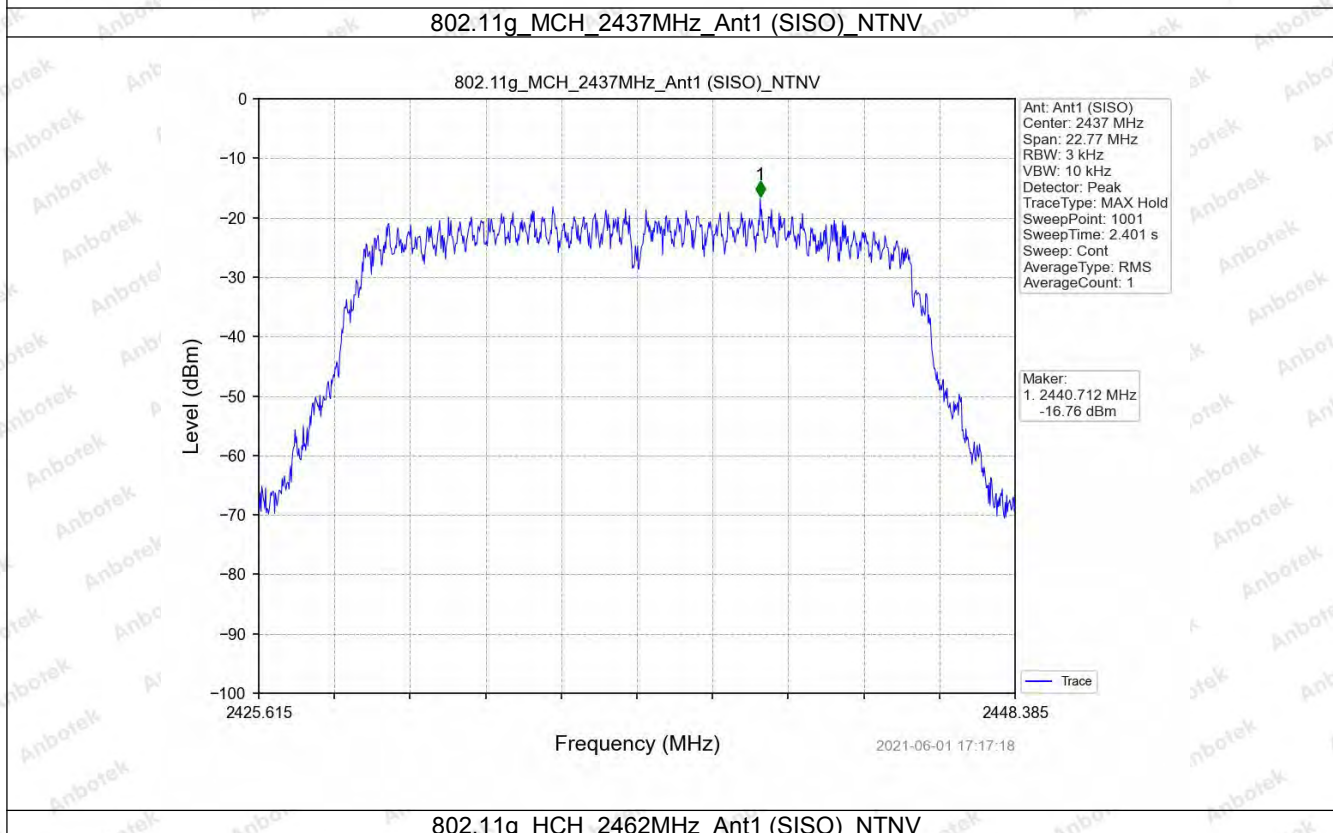
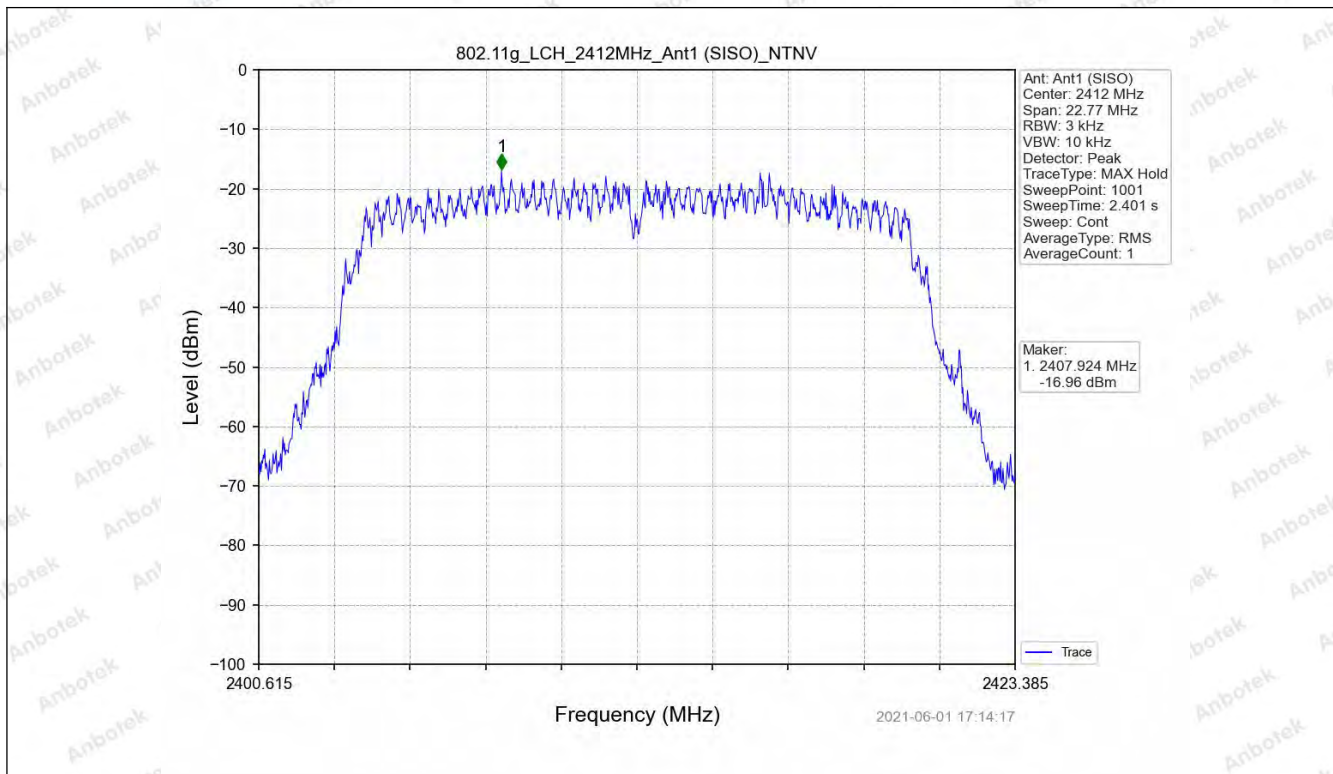
Note1: Antenna Gain: 0 dBi;

4.1.2 Test Graph

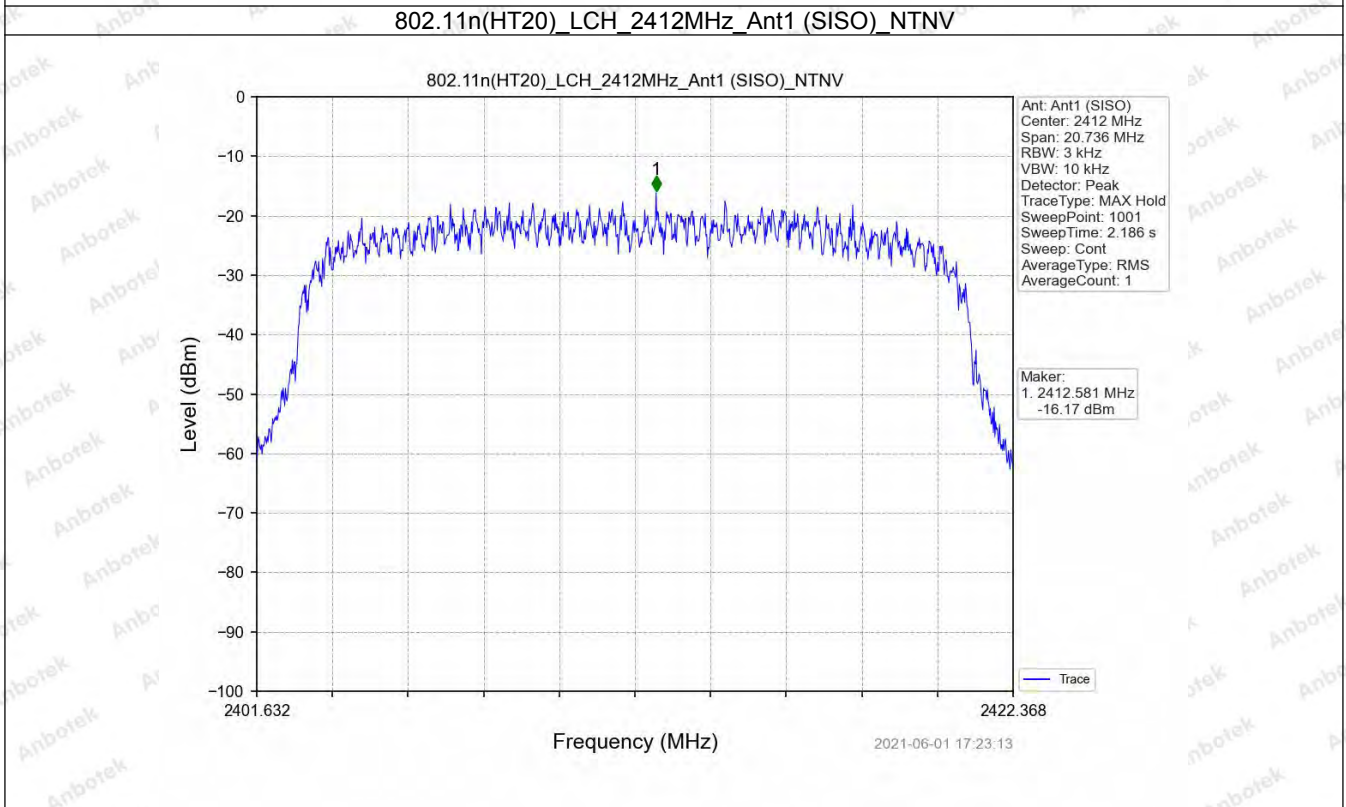
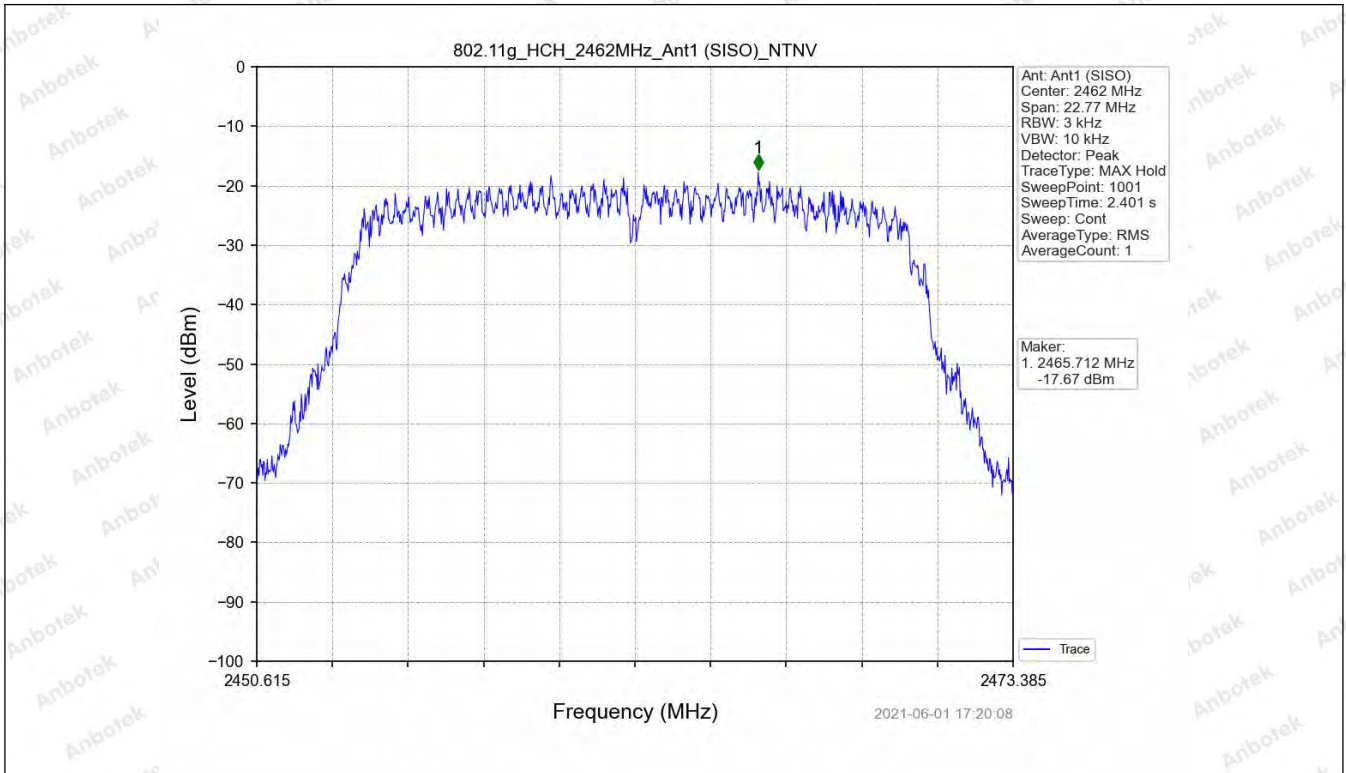




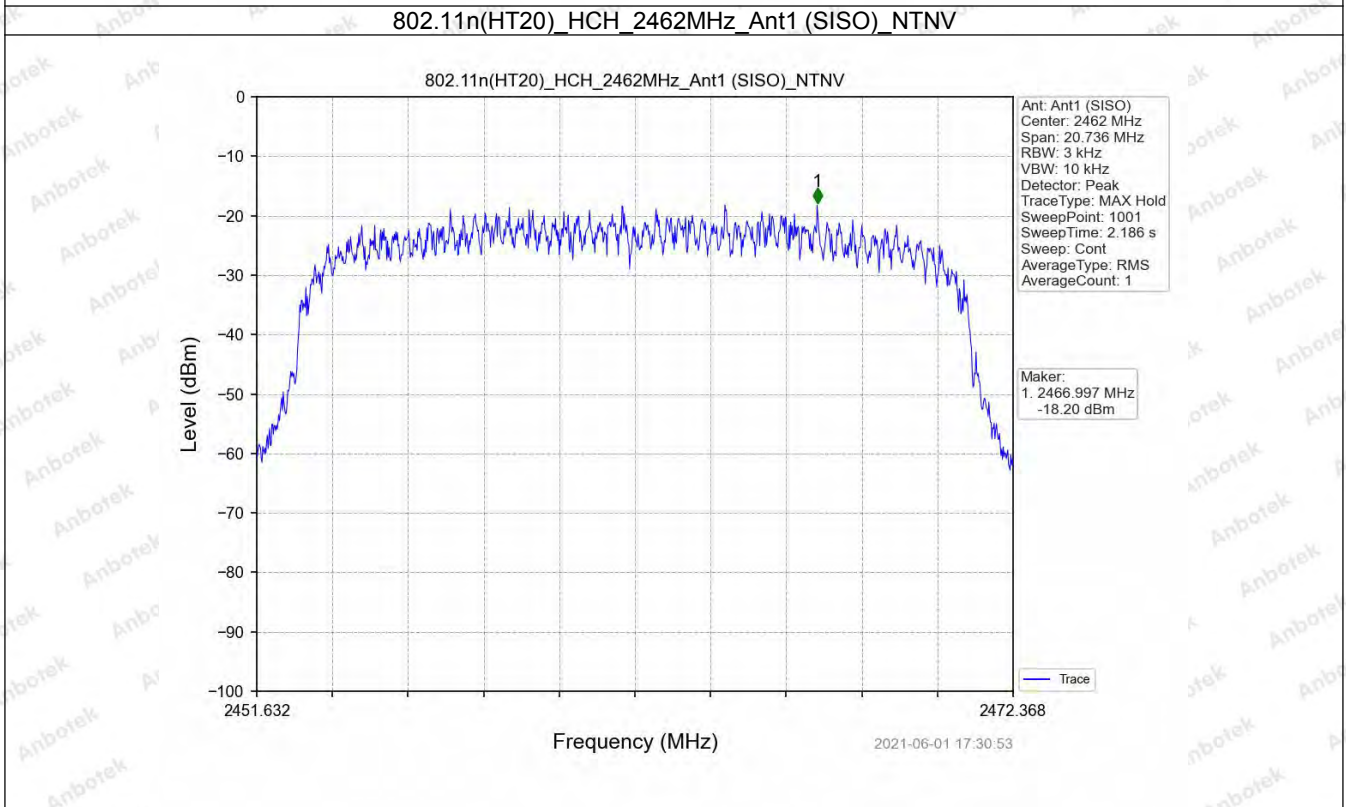
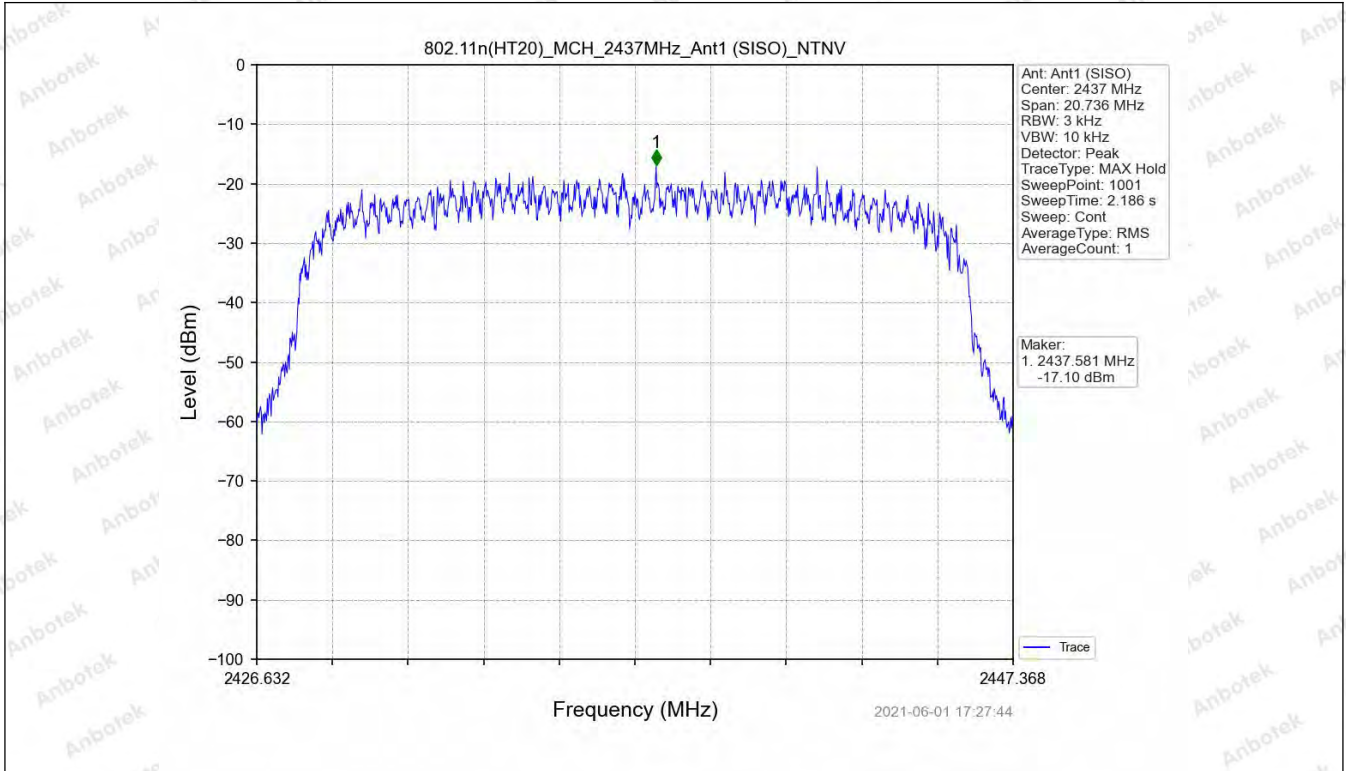
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



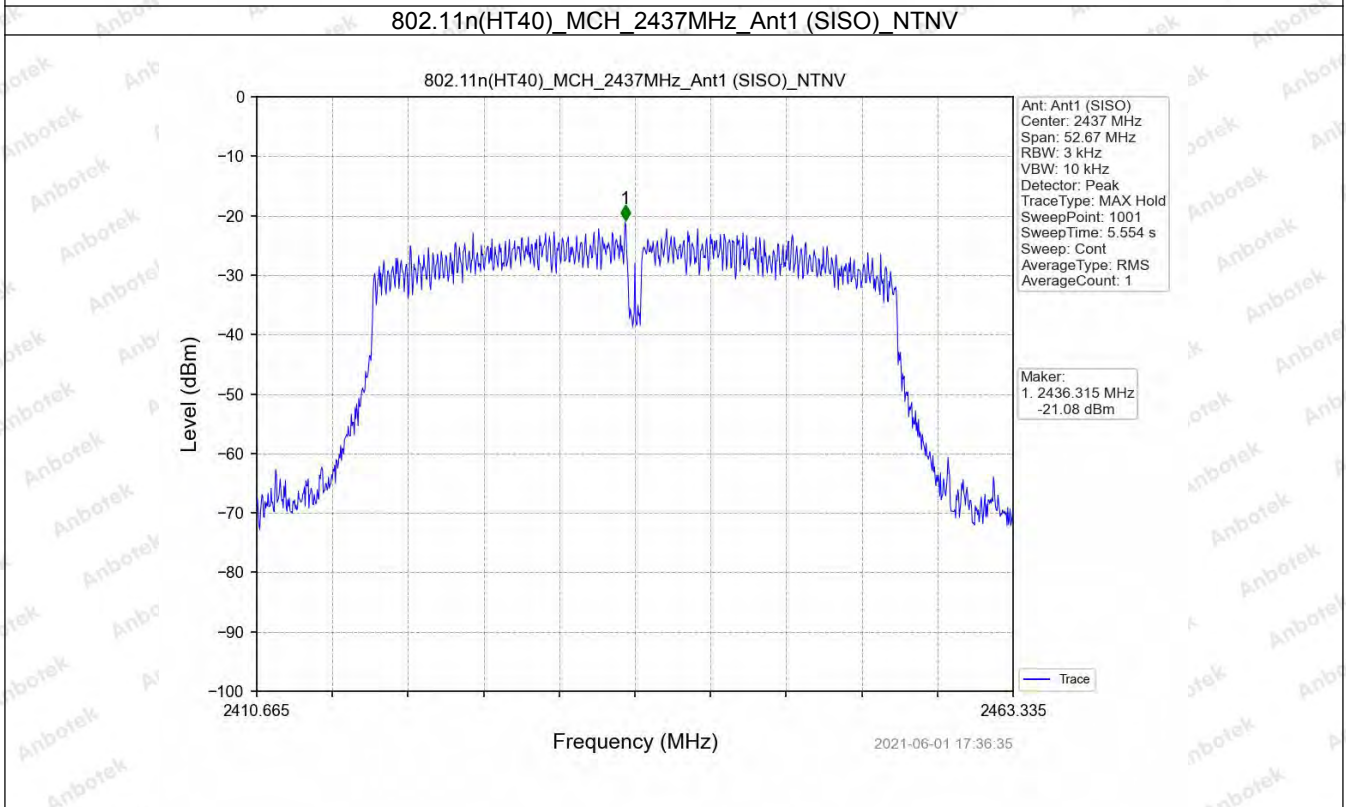
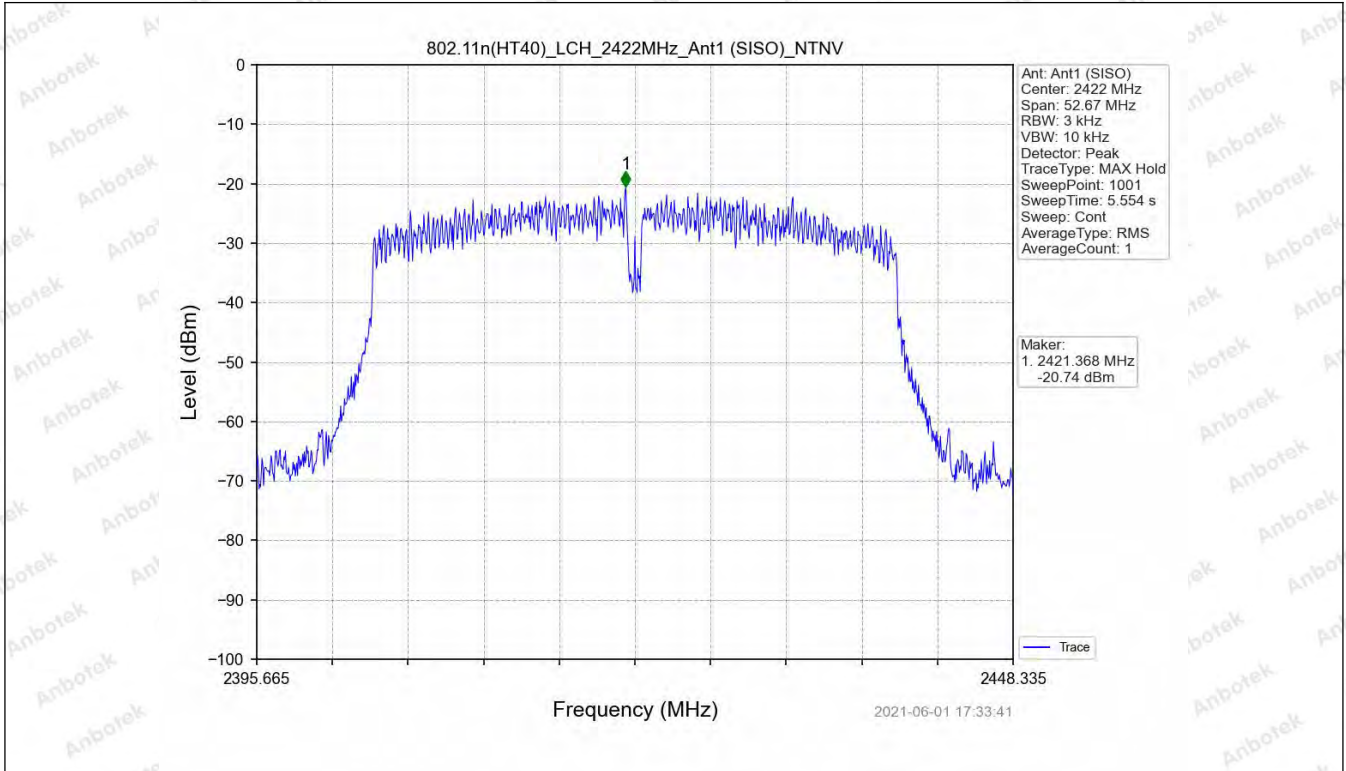
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



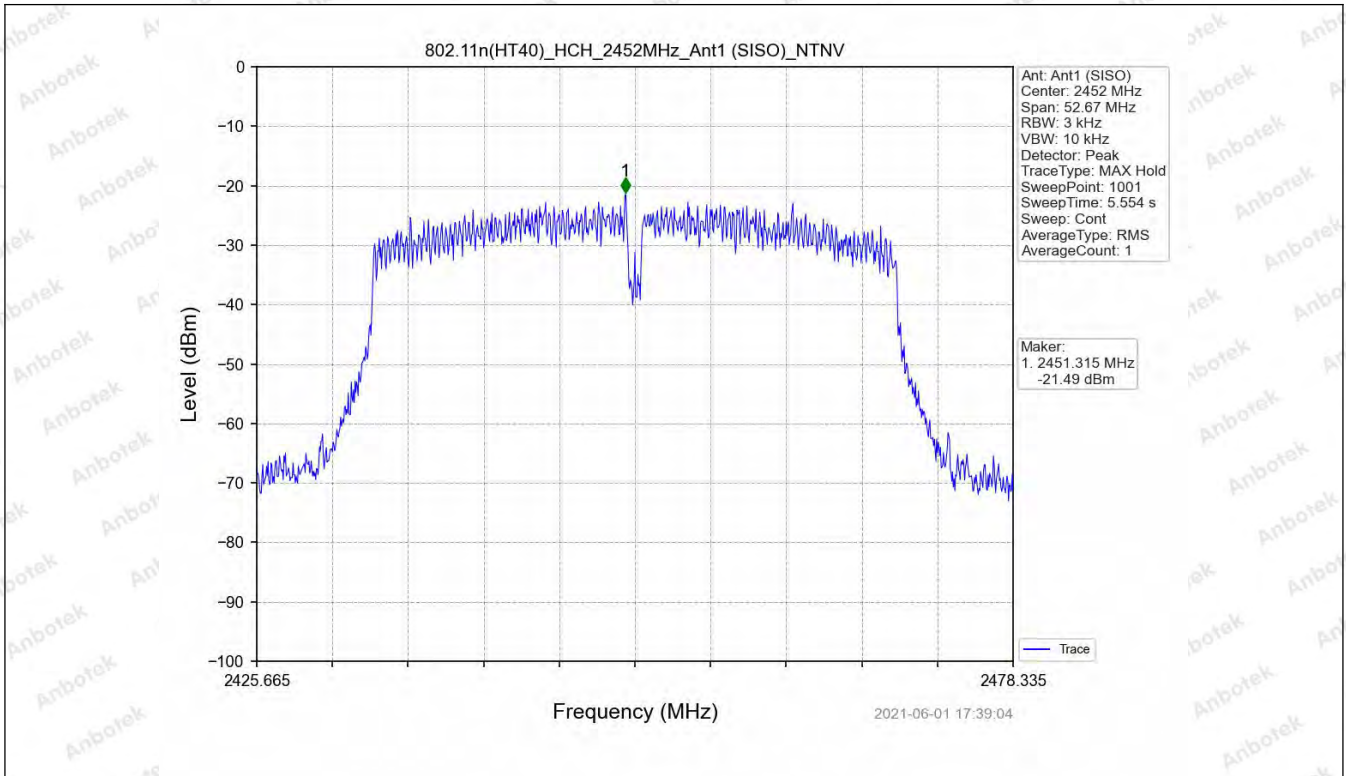
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

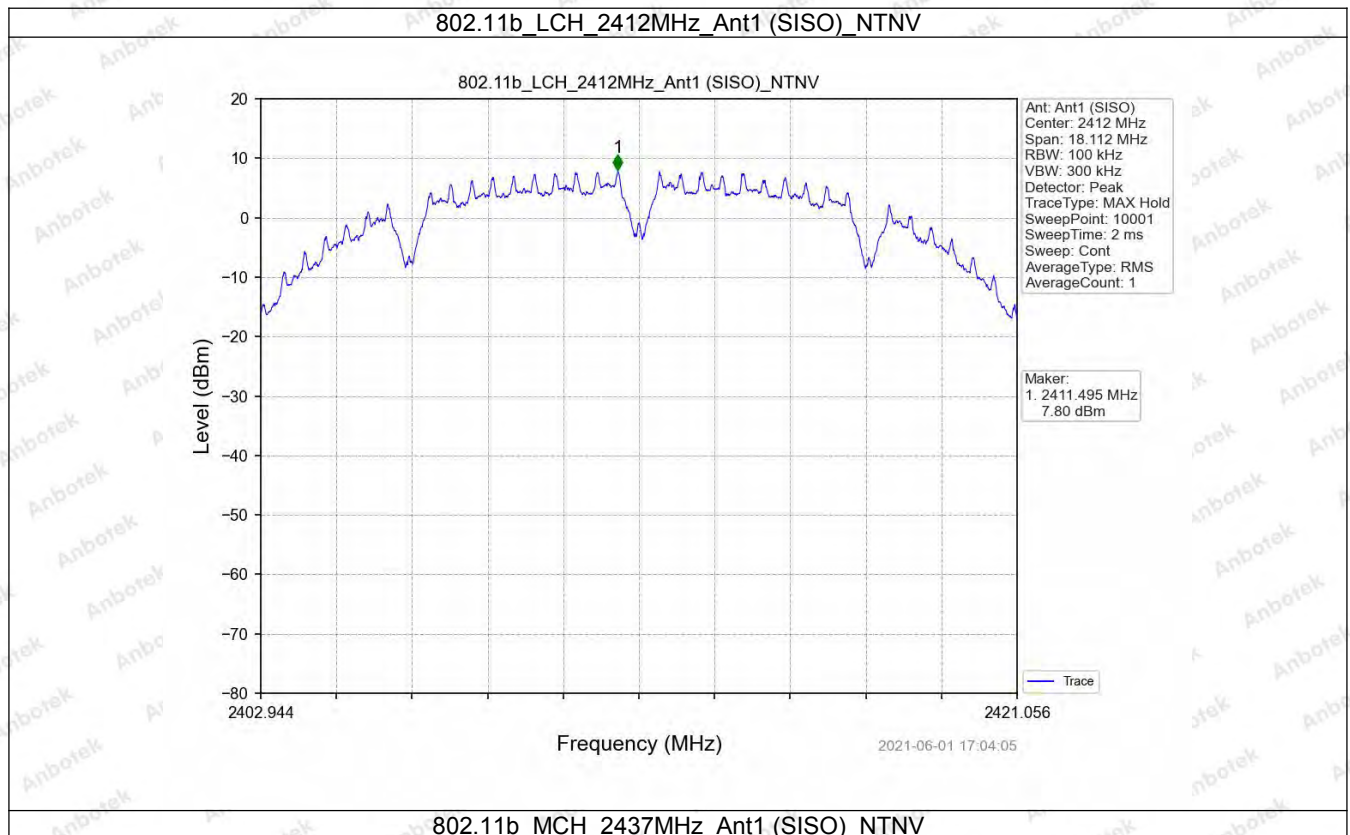
5.1 Ref

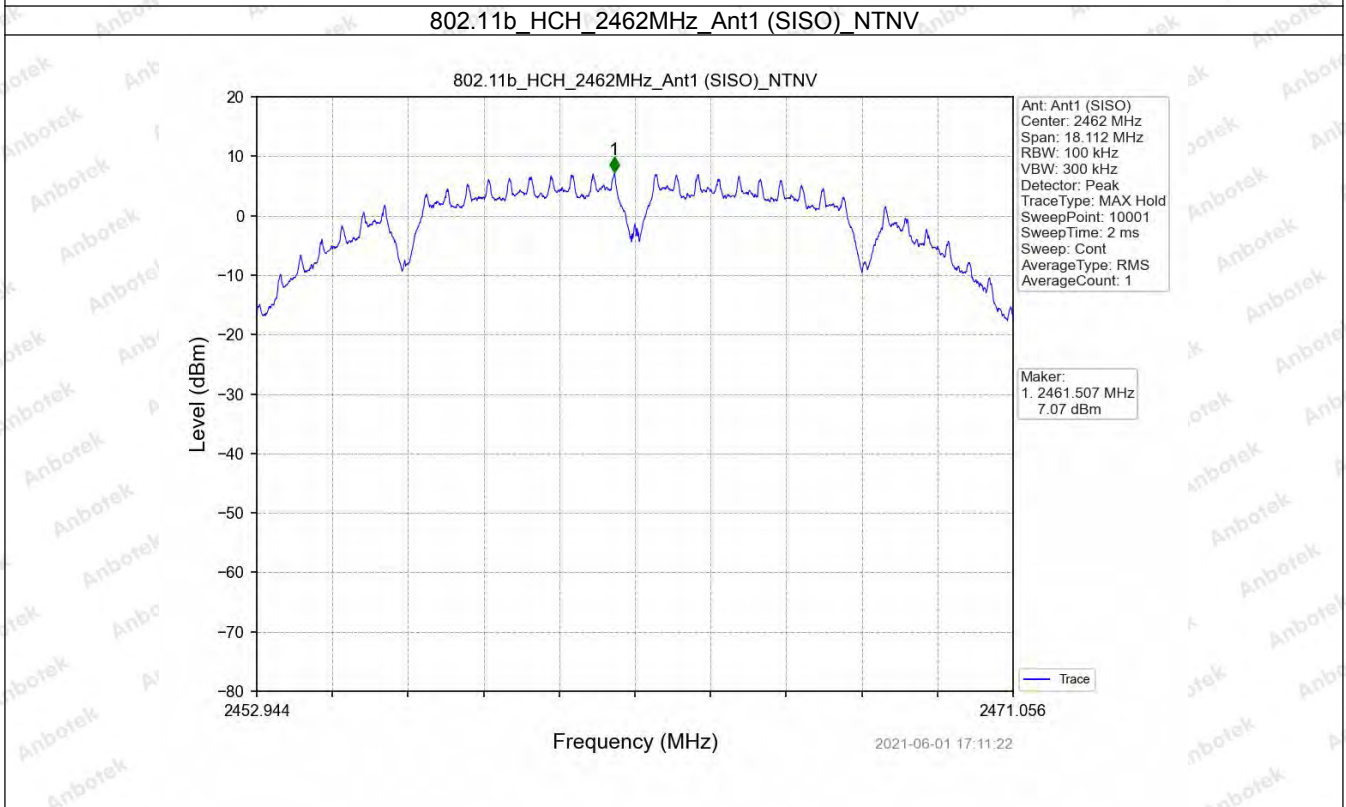
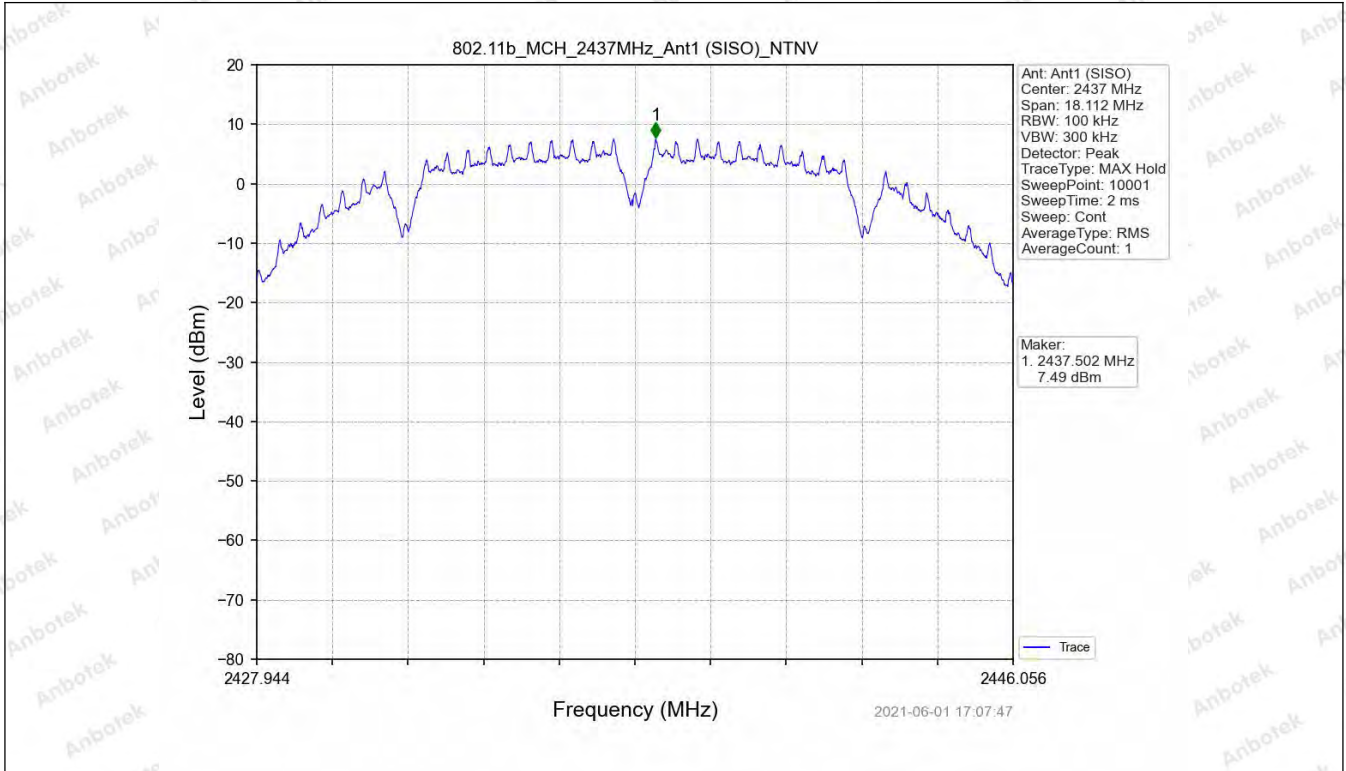
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	7.80	/	/
		2437	/	/	1	7.49	/	/
		2462	/	/	1	7.07	/	/
802.11g	SISO	2412	/	/	1	-2.63	/	/
		2437	/	/	1	-3.04	/	/
		2462	/	/	1	-3.45	/	/
802.11n (HT20)	SISO	2412	/	/	1	0.83	/	/
		2437	/	/	1	0.19	/	/
		2462	/	/	1	-0.23	/	/
802.11n (HT40)	SISO	2422	/	/	1	-6.34	/	/
		2437	/	/	1	-6.82	/	/
		2452	/	/	1	-7.22	/	/

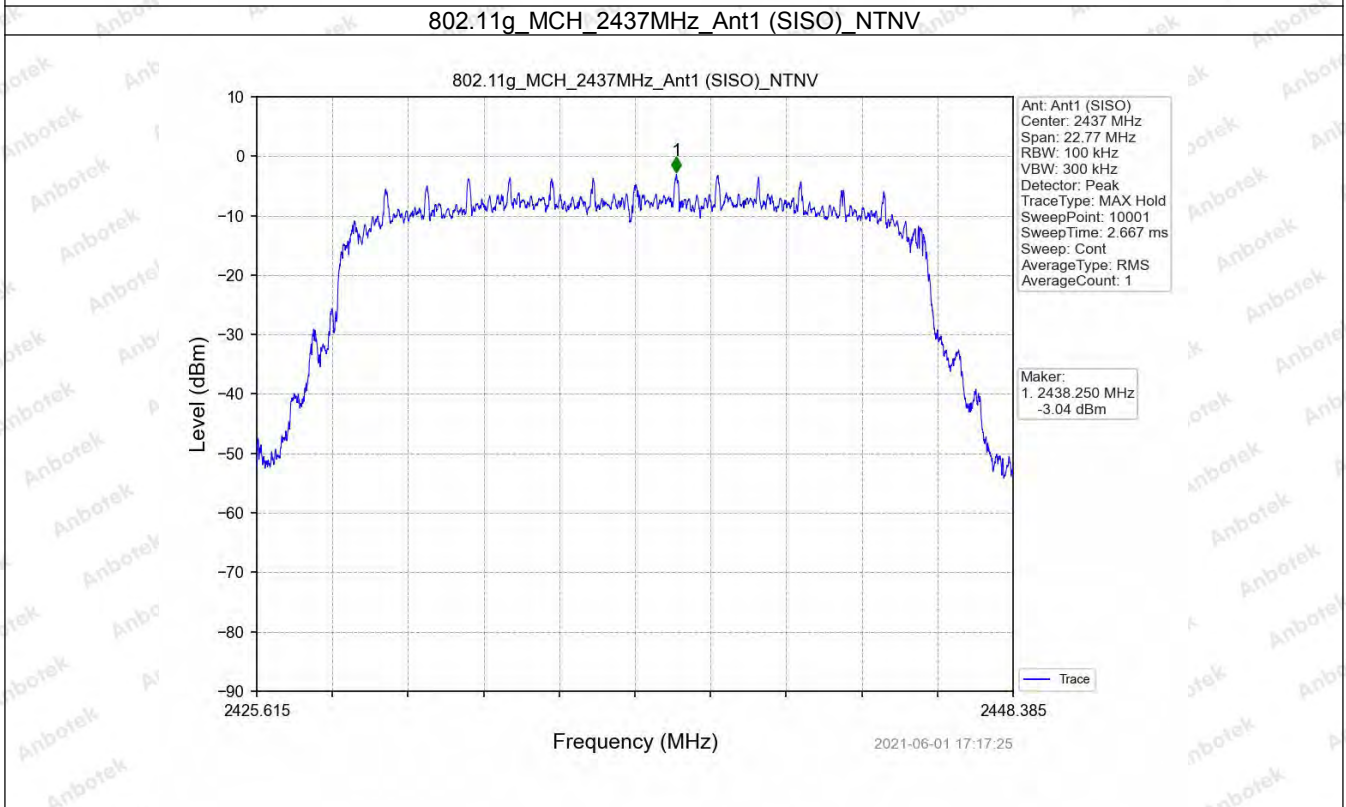
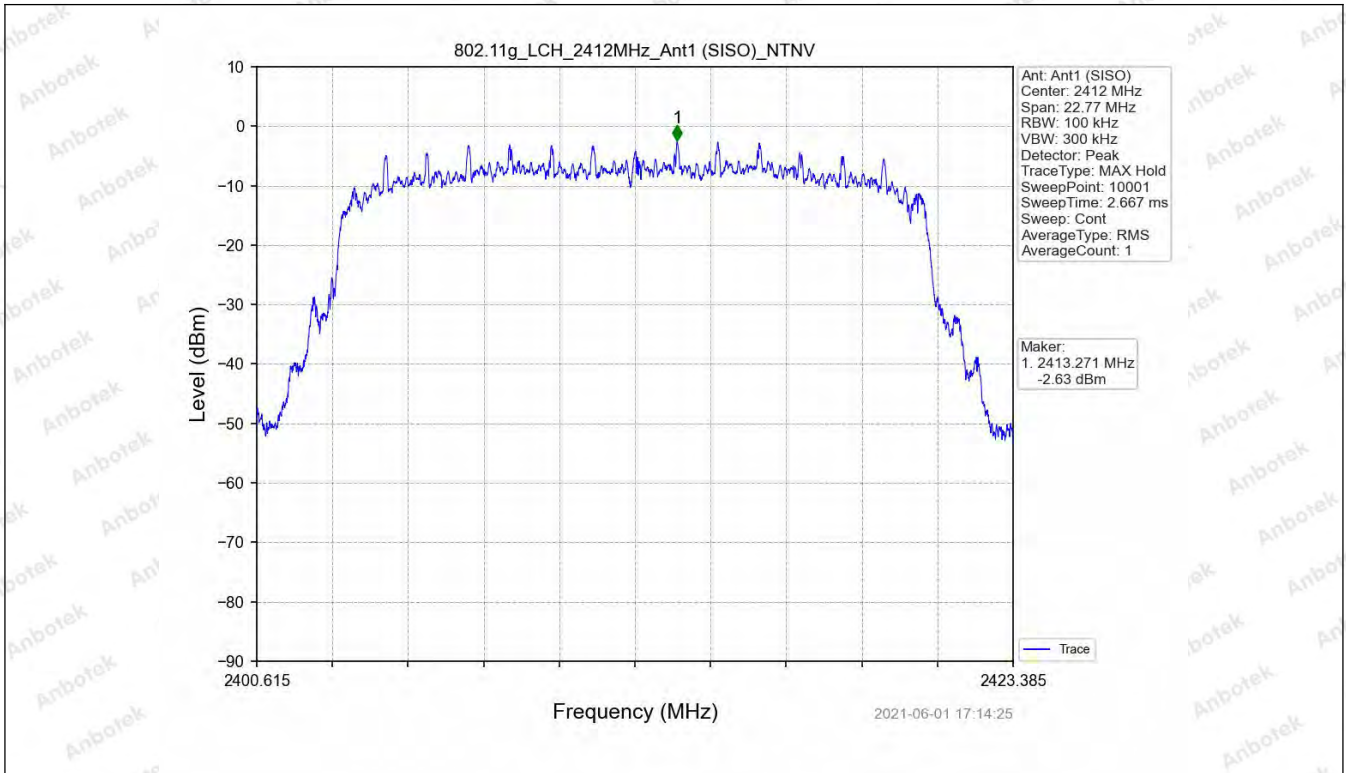
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 Test Graph

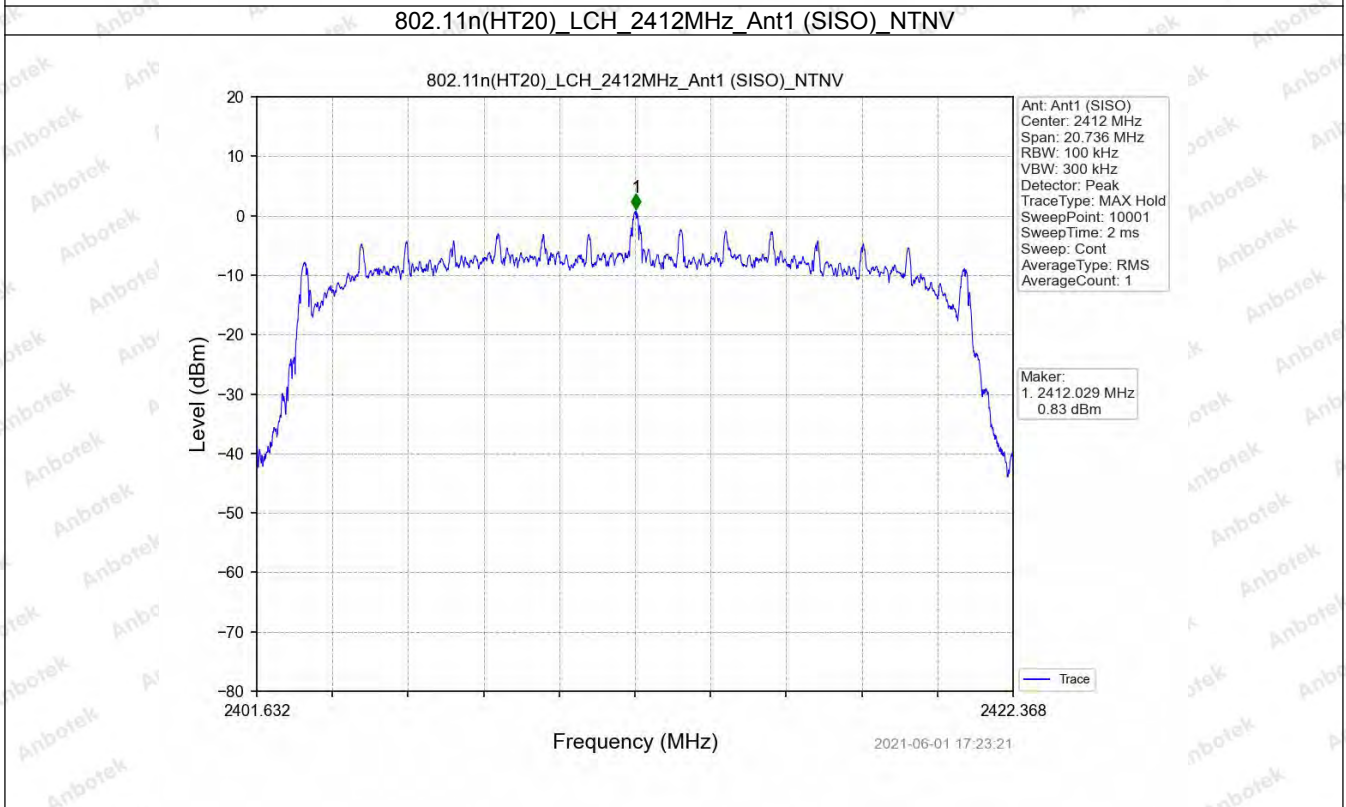
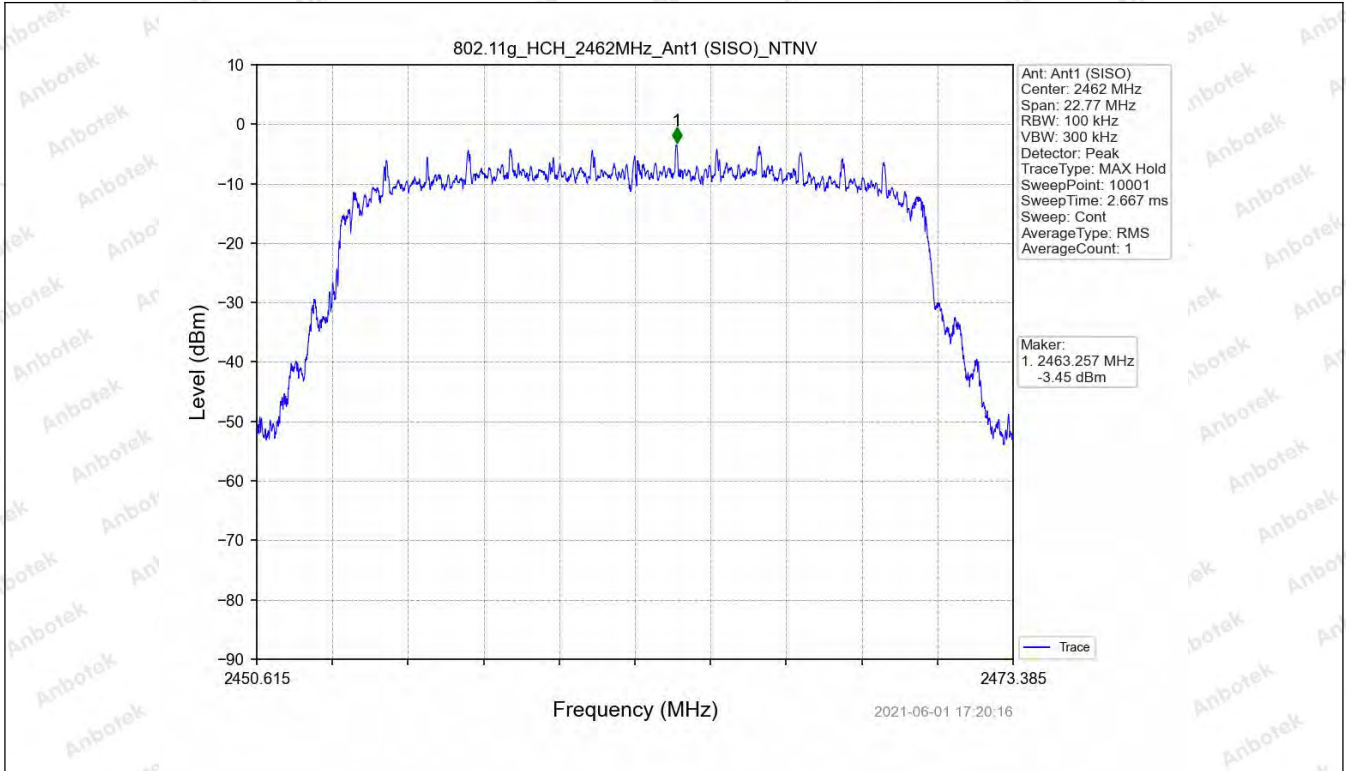




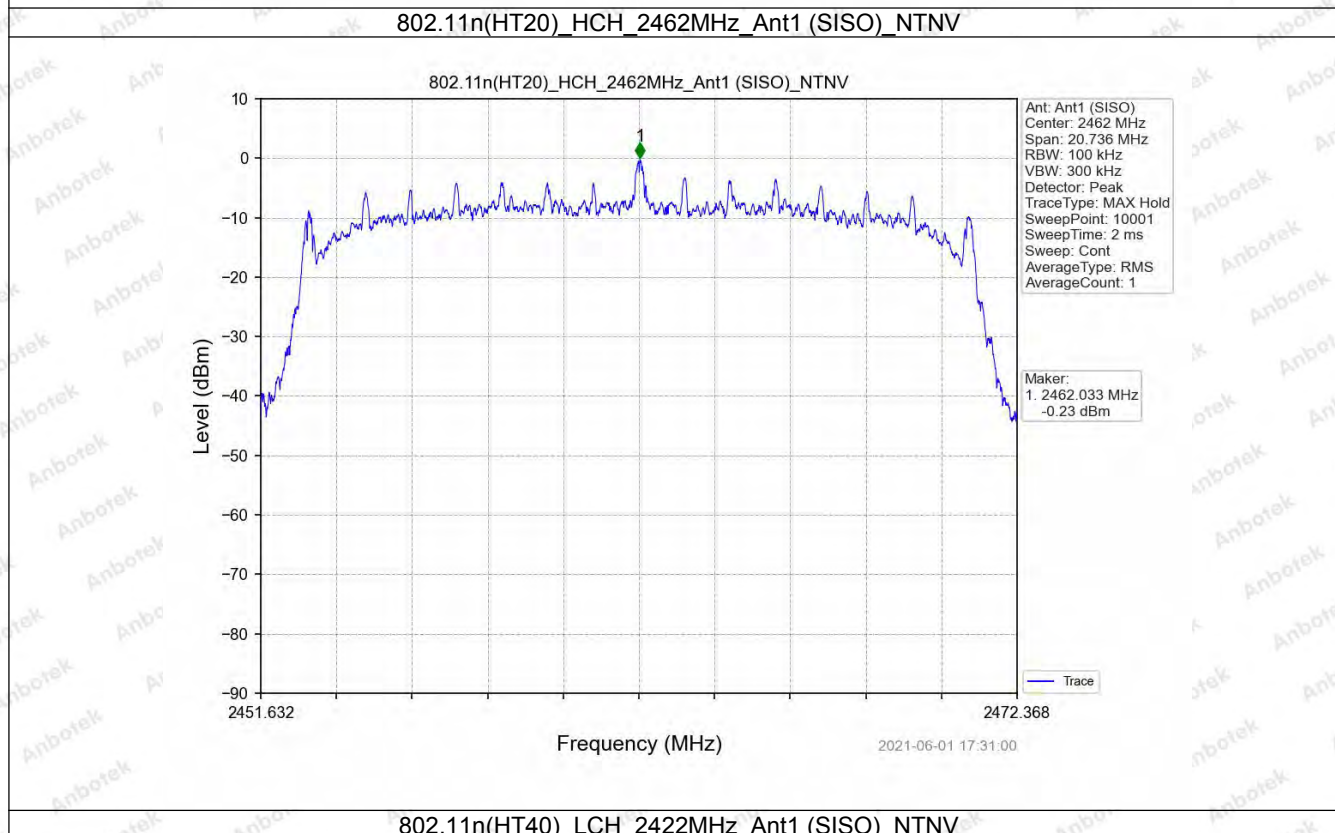
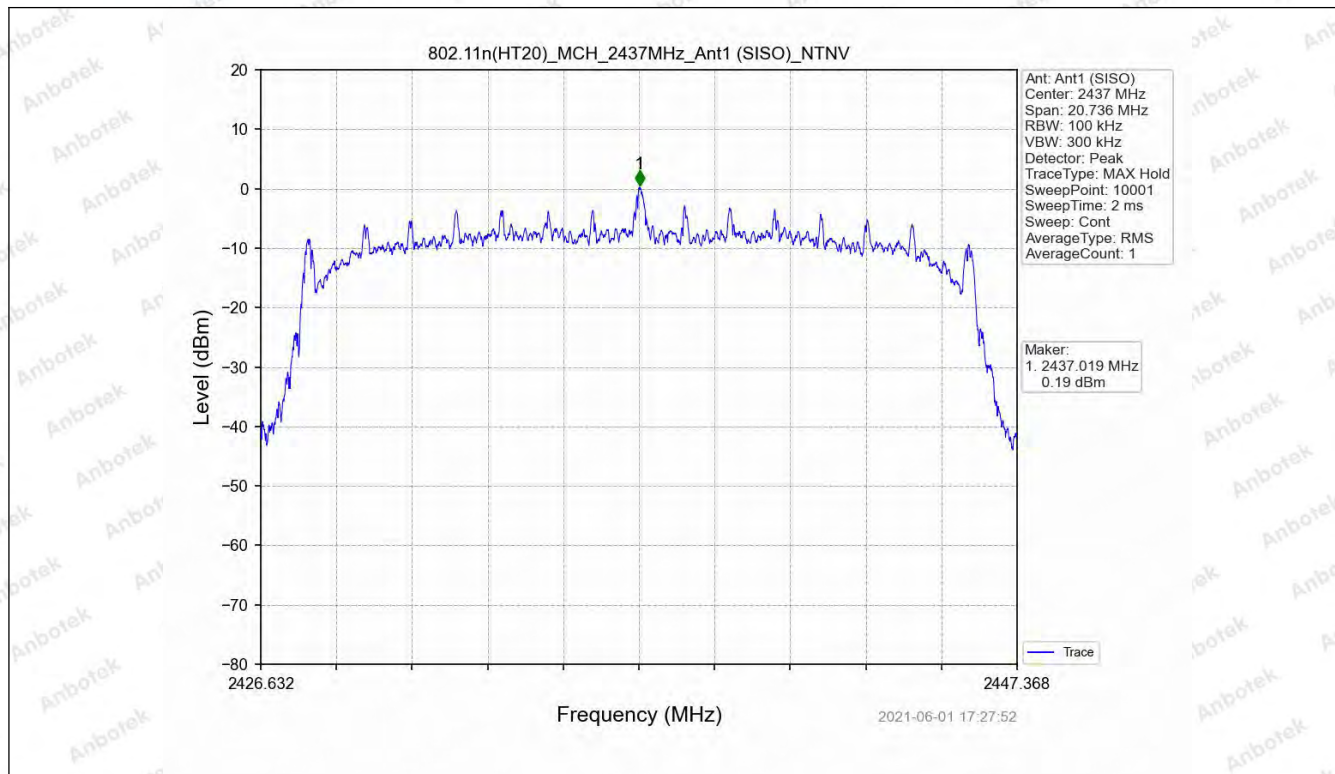
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



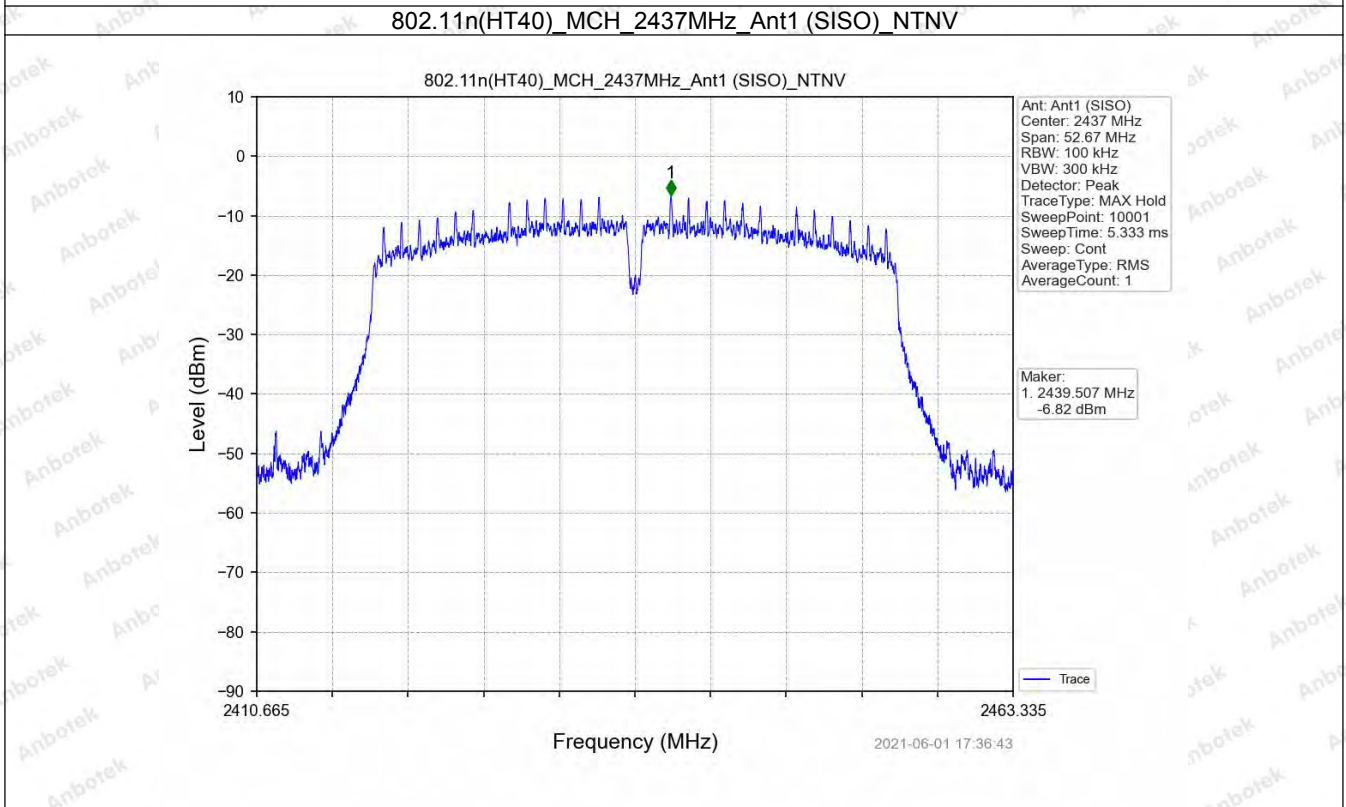
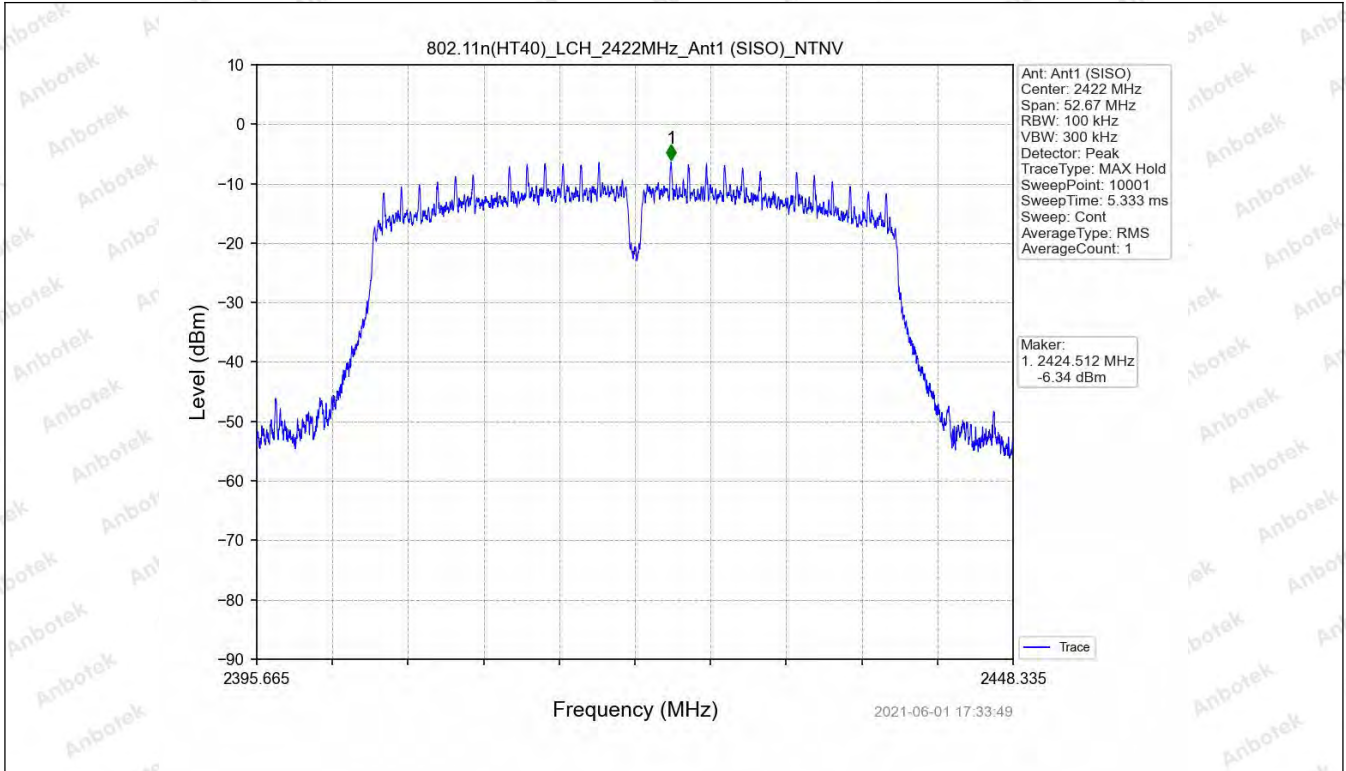
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



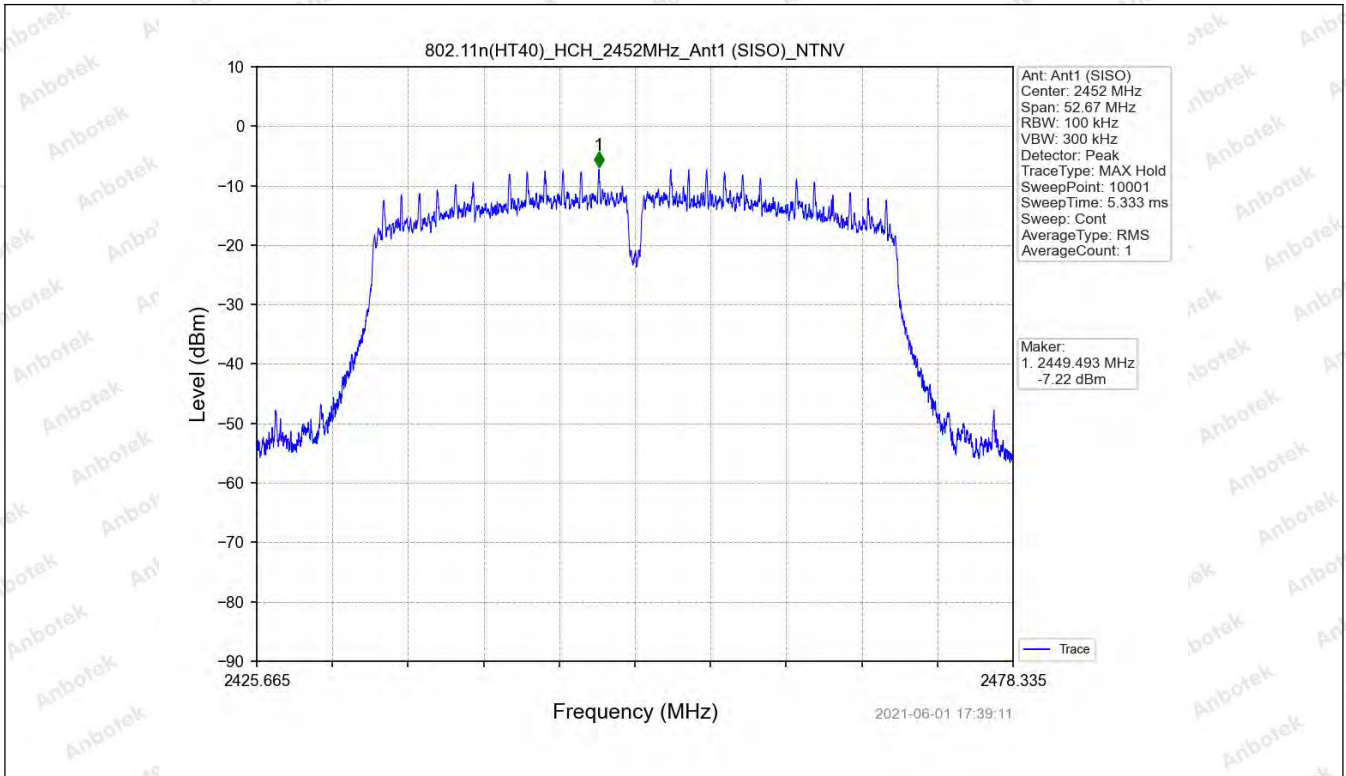
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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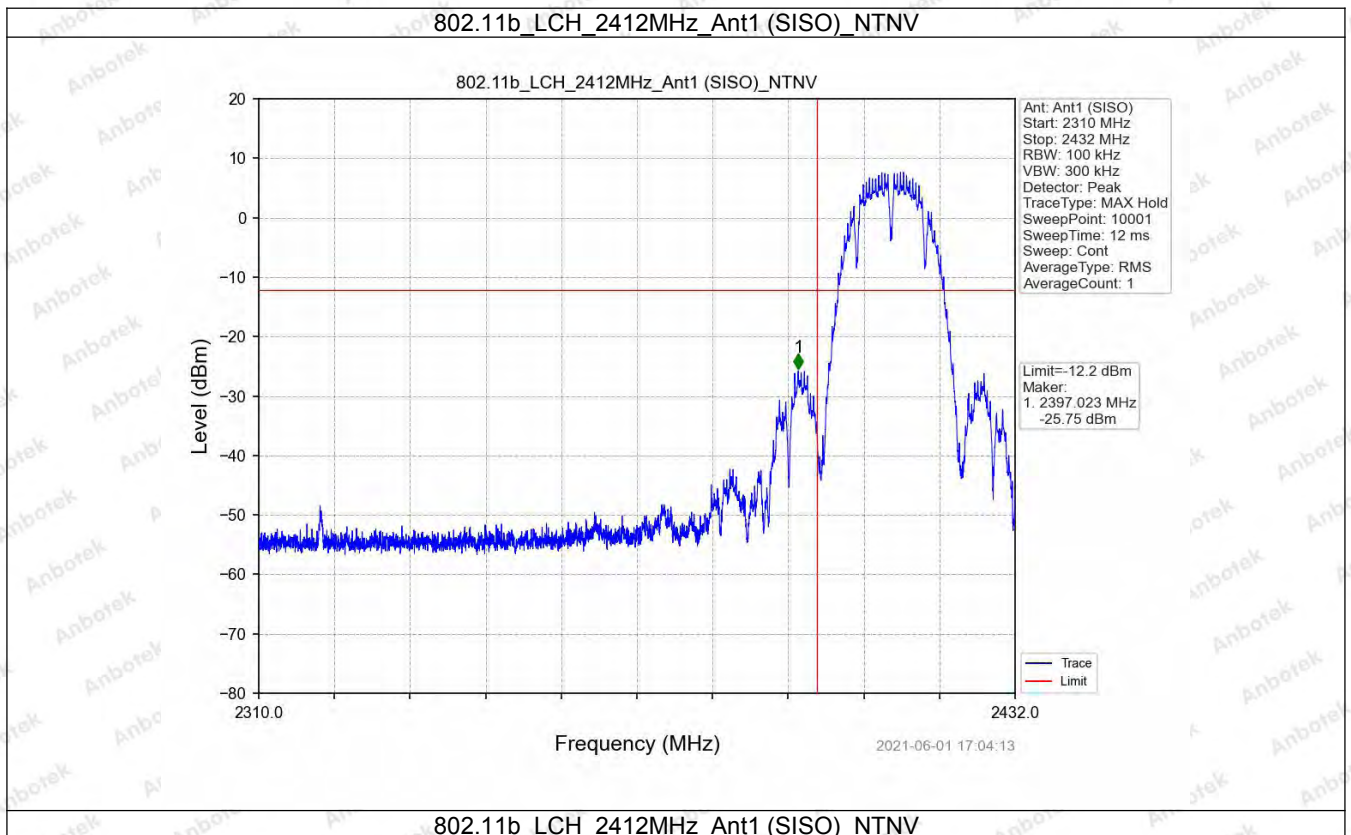
5.2 CSE

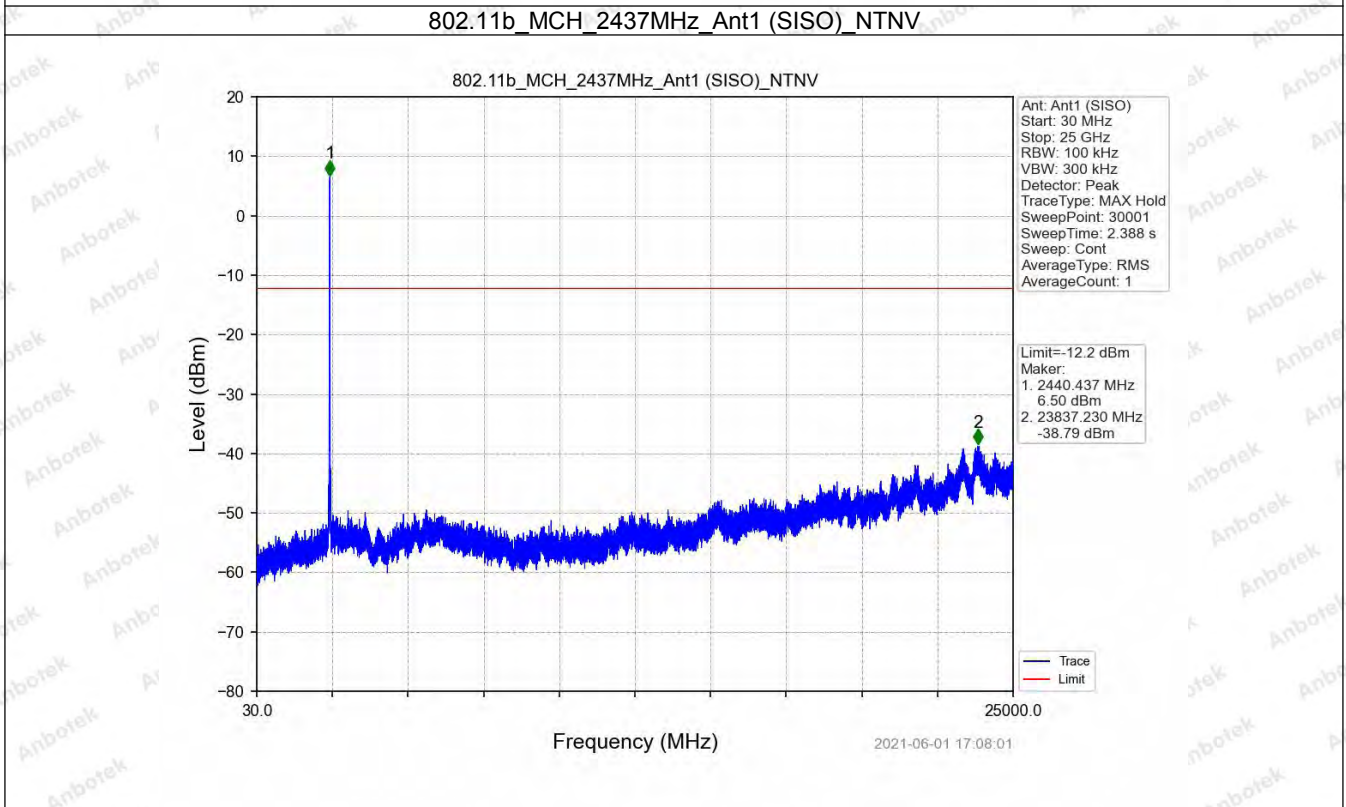
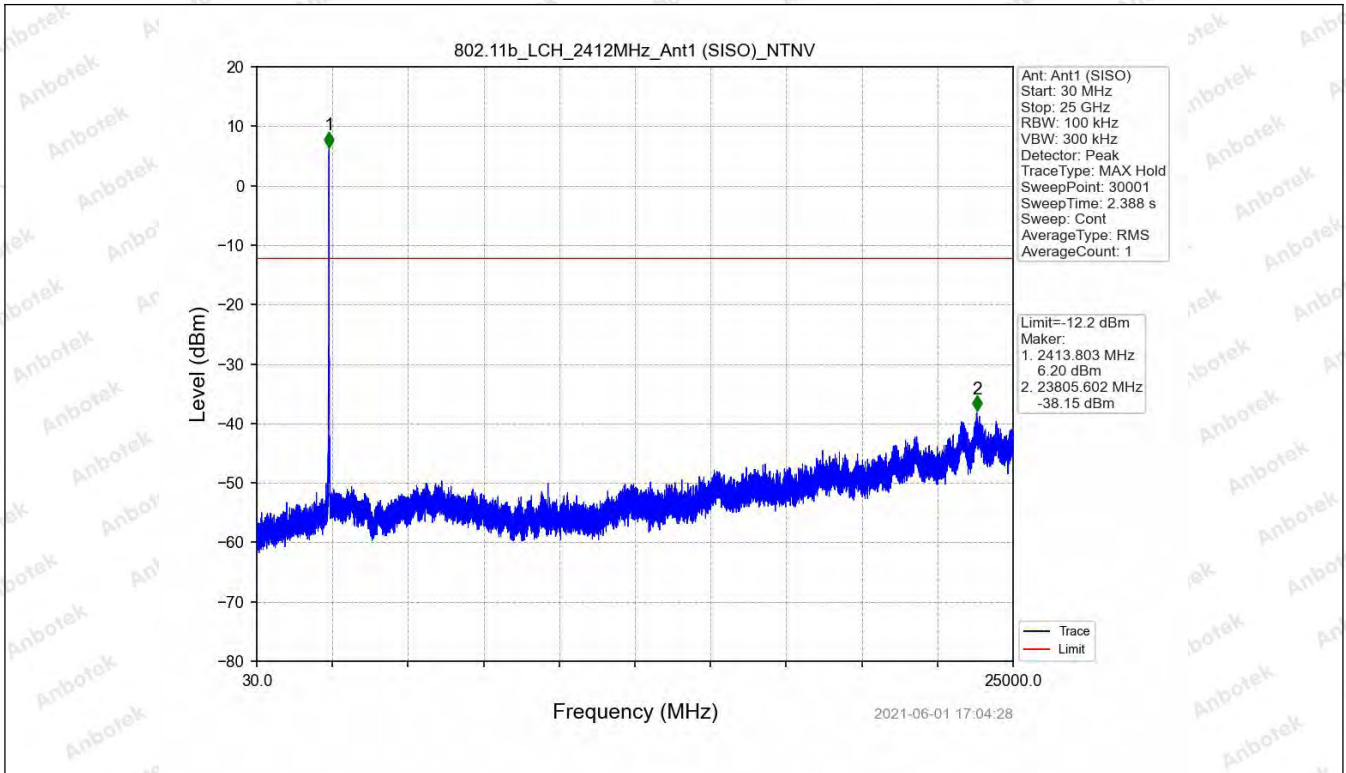
5.2.1 Test Result

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	<=-12.2	Pass
		2437	/	/	1	Refer To Test Graph	<=-12.2	Pass
		2462	/	/	1	Refer To Test Graph	<=-12.2	Pass
802.11g	SISO	2412	/	/	1	Refer To Test Graph	<=-22.63	Pass
		2437	/	/	1	Refer To Test Graph	<=-22.63	Pass
		2462	/	/	1	Refer To Test Graph	<=-22.63	Pass
802.11n (HT20)	SISO	2412	/	/	1	Refer To Test Graph	<=-19.17	Pass
		2437	/	/	1	Refer To Test Graph	<=-19.17	Pass
		2462	/	/	1	Refer To Test Graph	<=-19.17	Pass
802.11n (HT40)	SISO	2422	/	/	1	Refer To Test Graph	<=-19.17	Pass
		2437	/	/	1	Refer To Test Graph	<=-19.17	Pass
		2452	/	/	1	Refer To Test Graph	<=-19.17	Pass

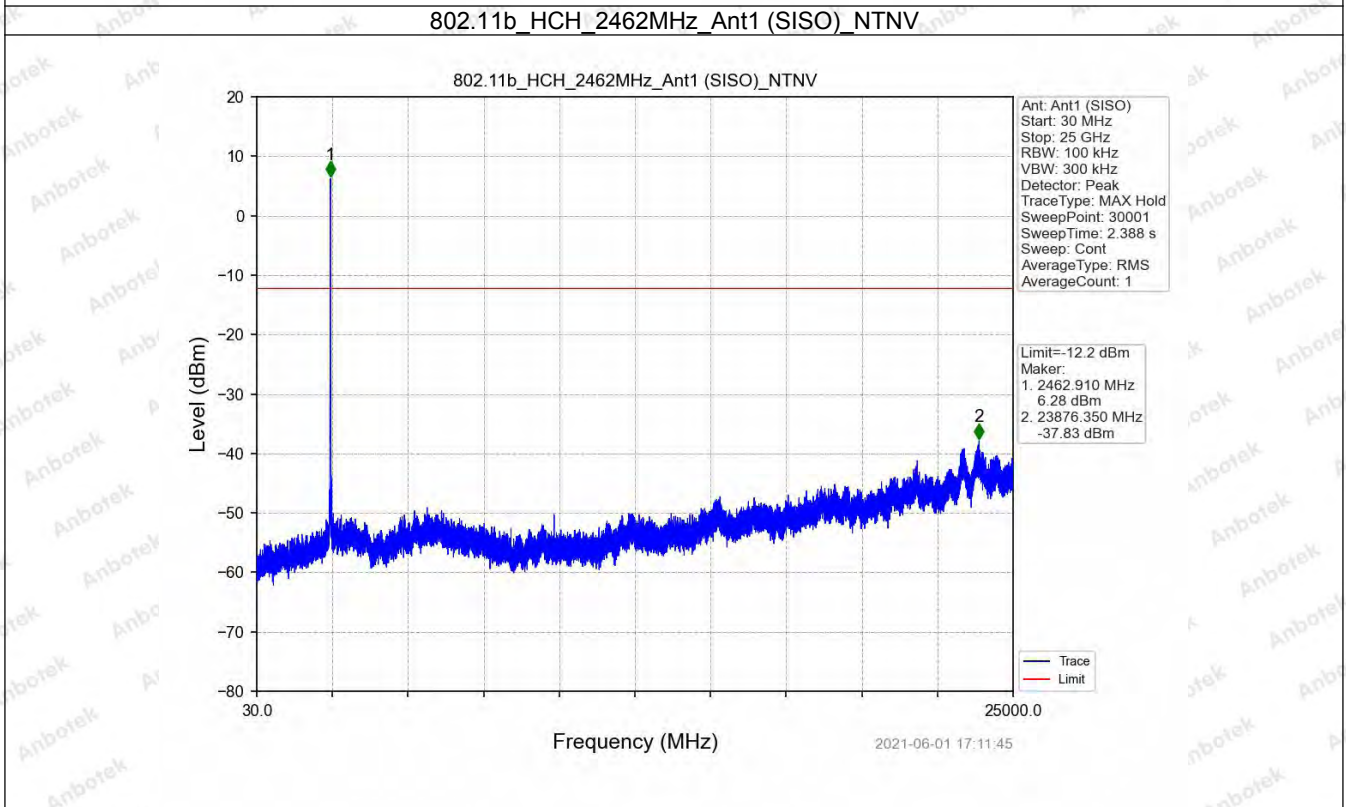
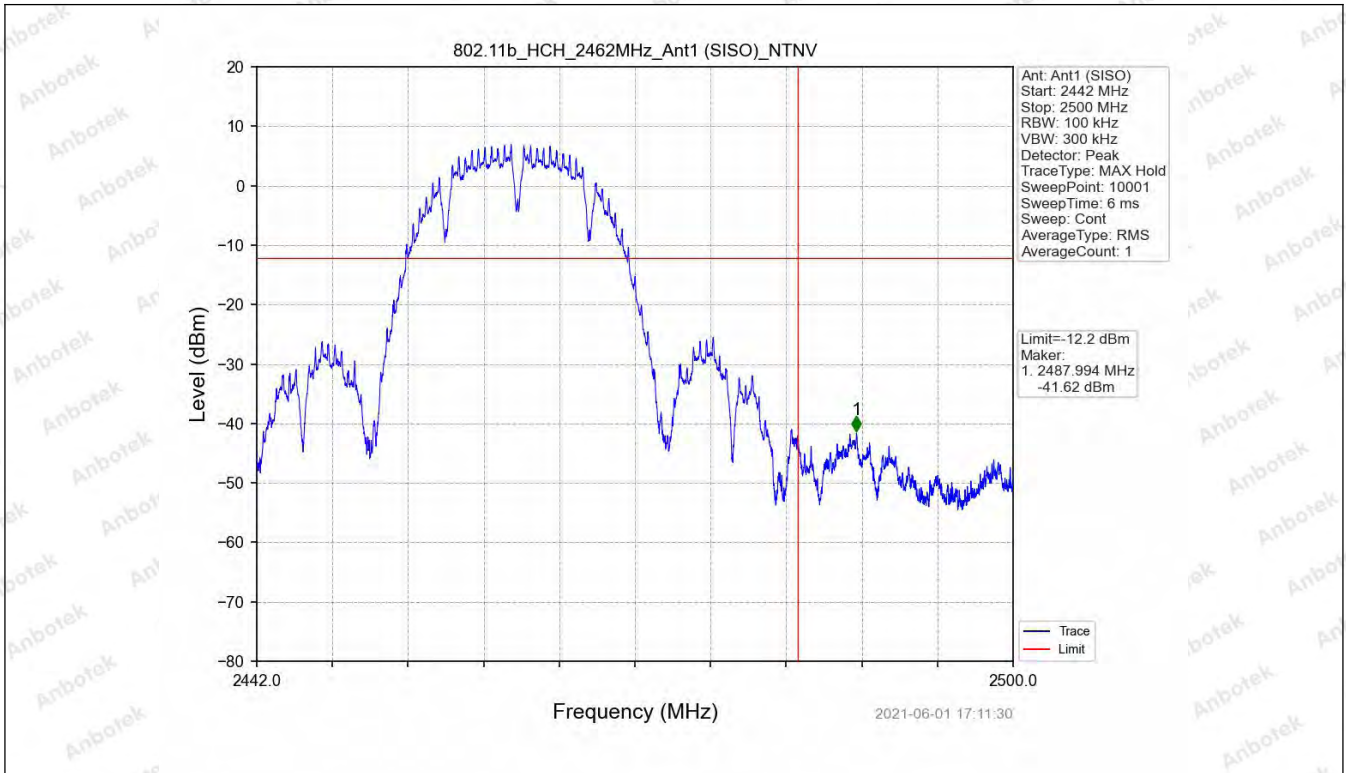
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.2.2 Test Graph

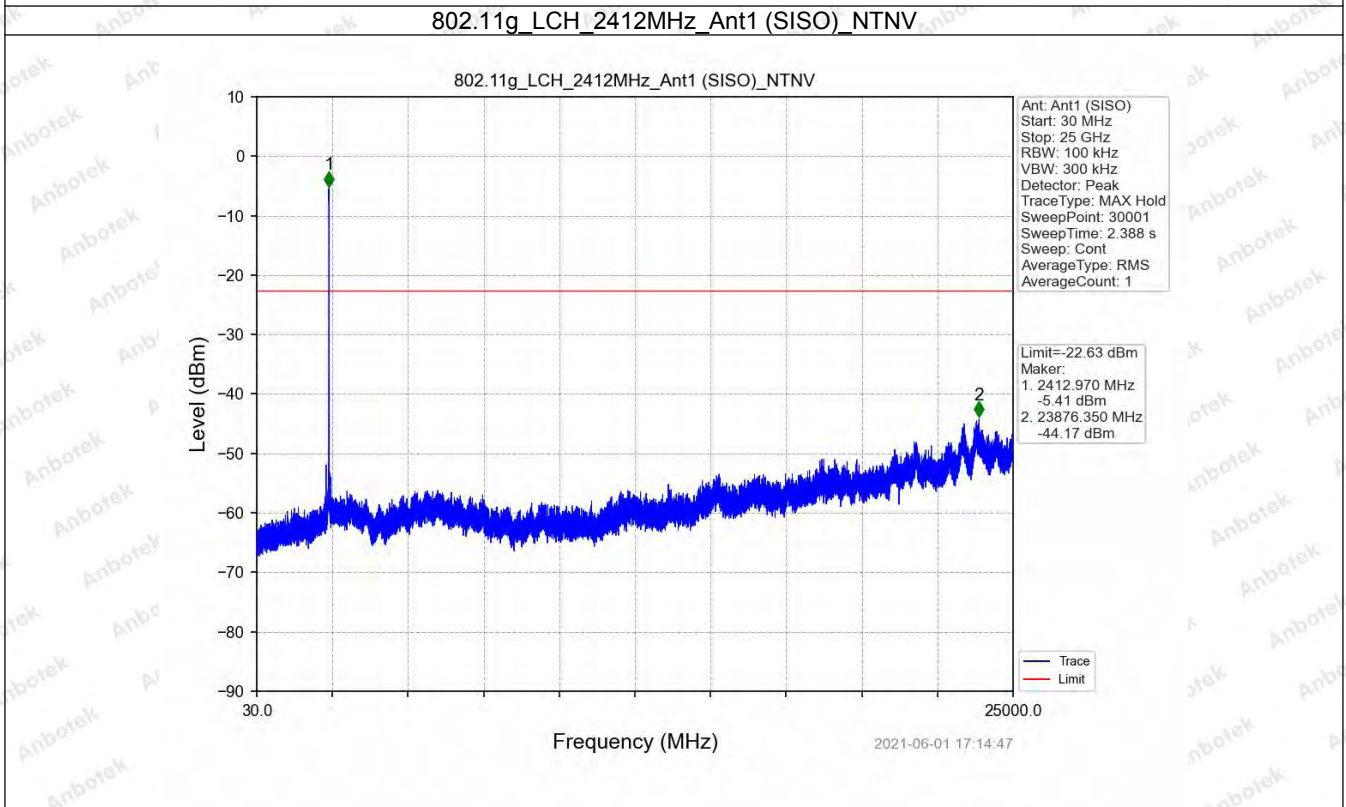
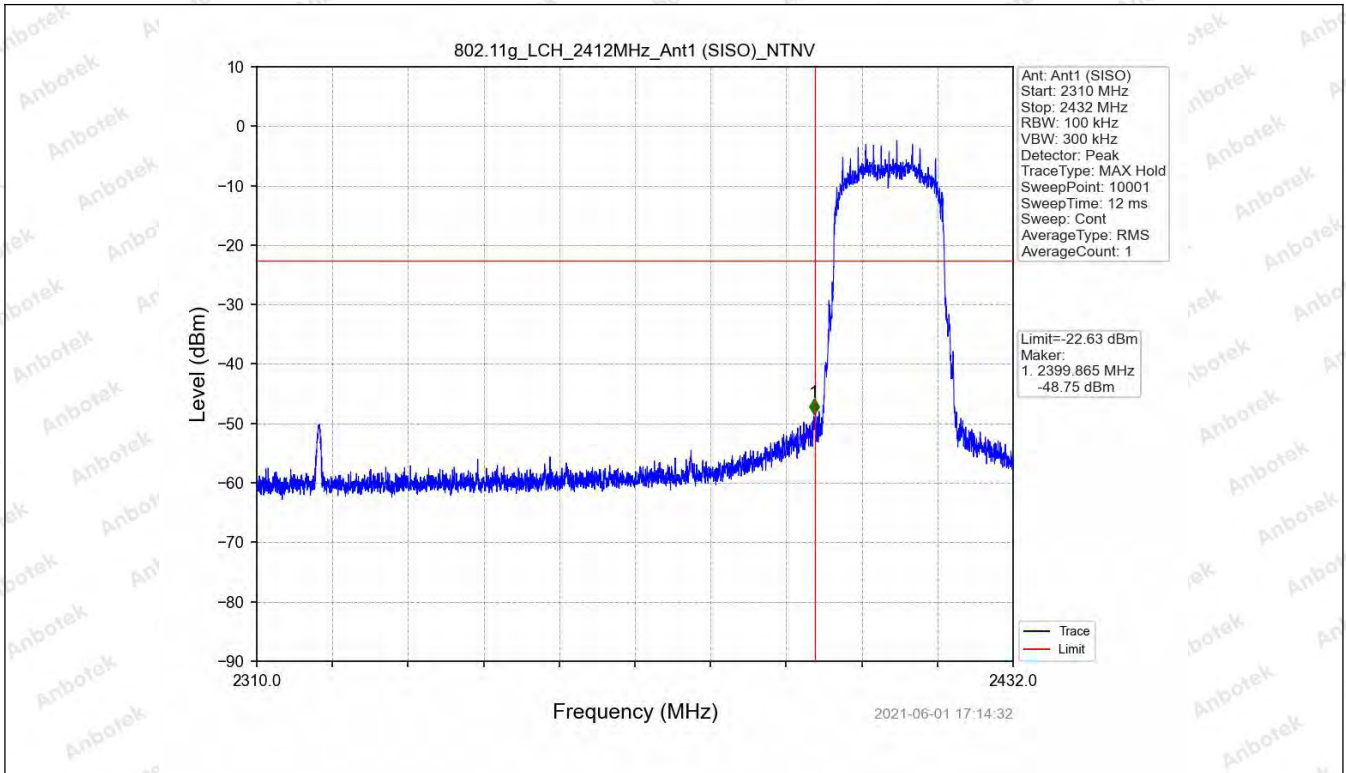




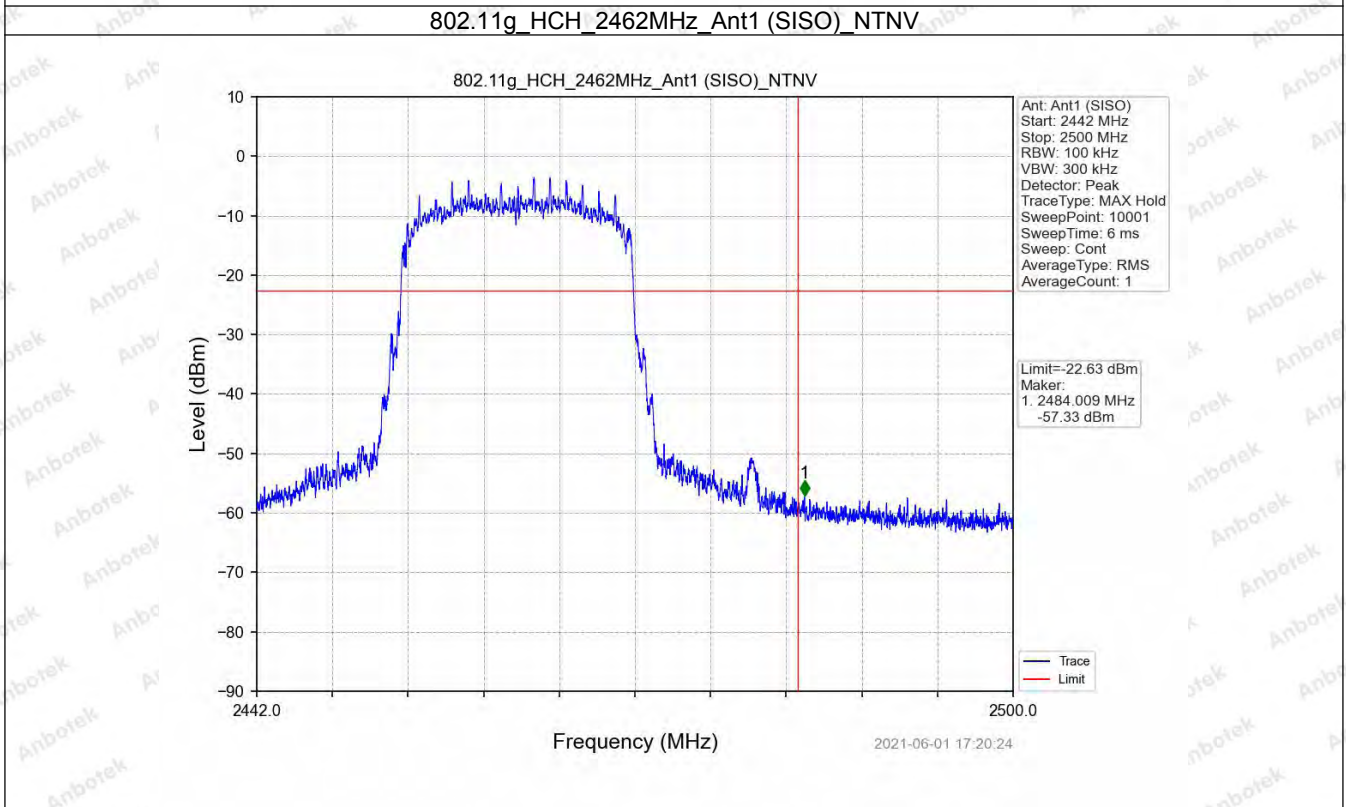
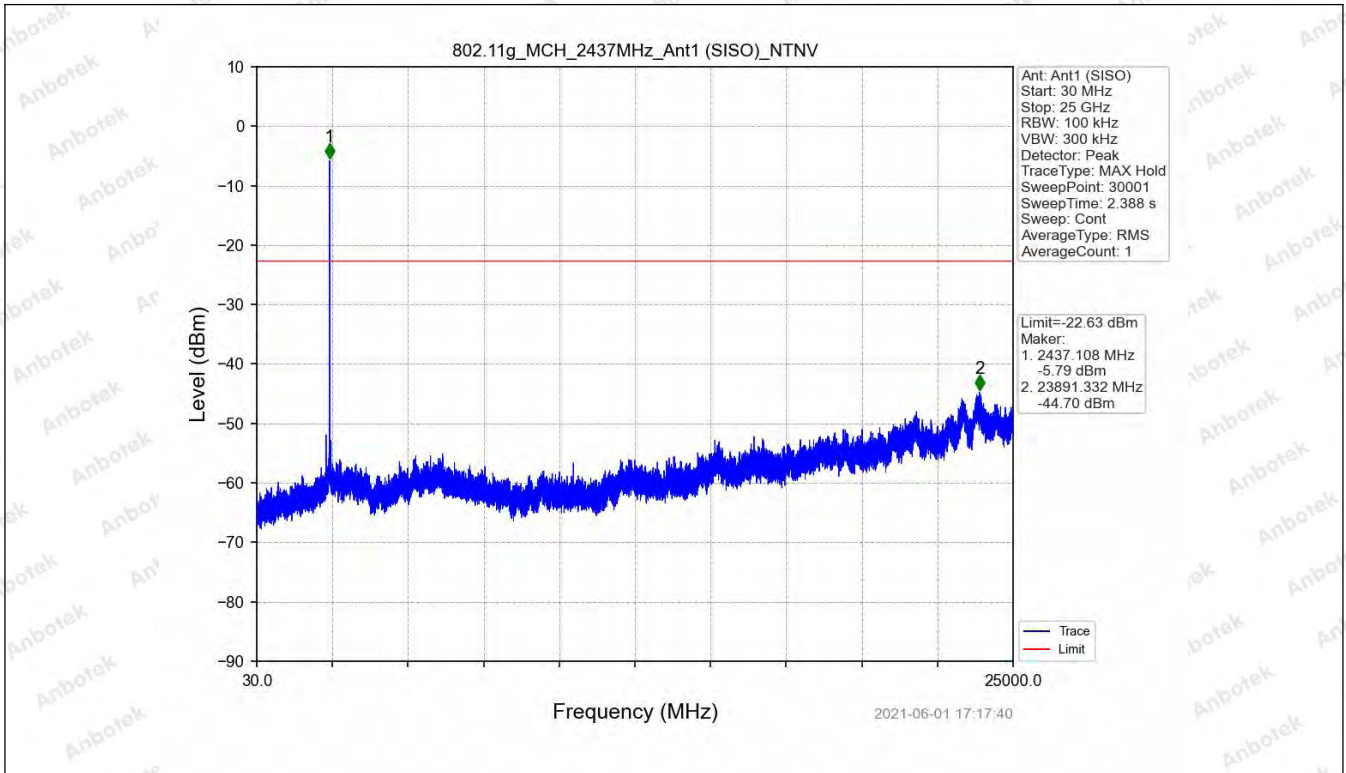
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



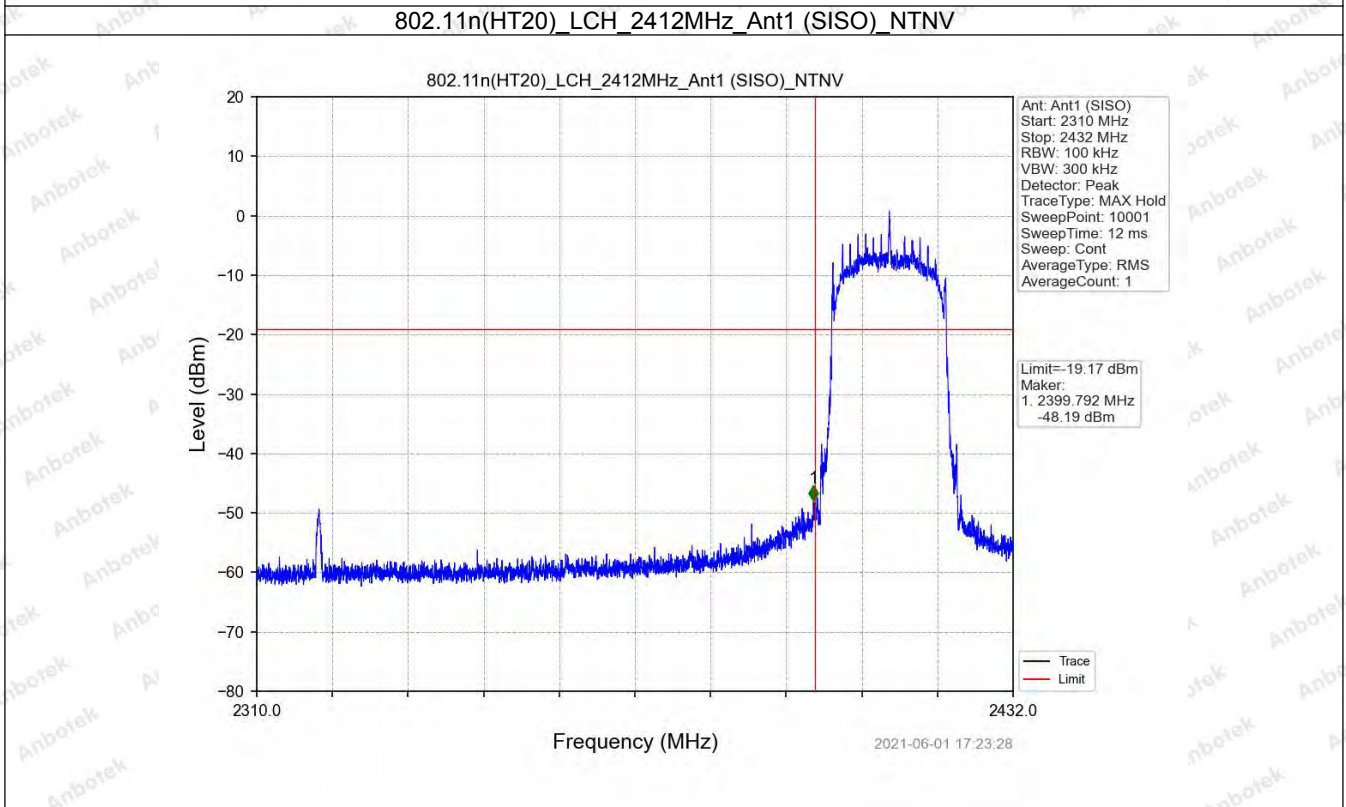
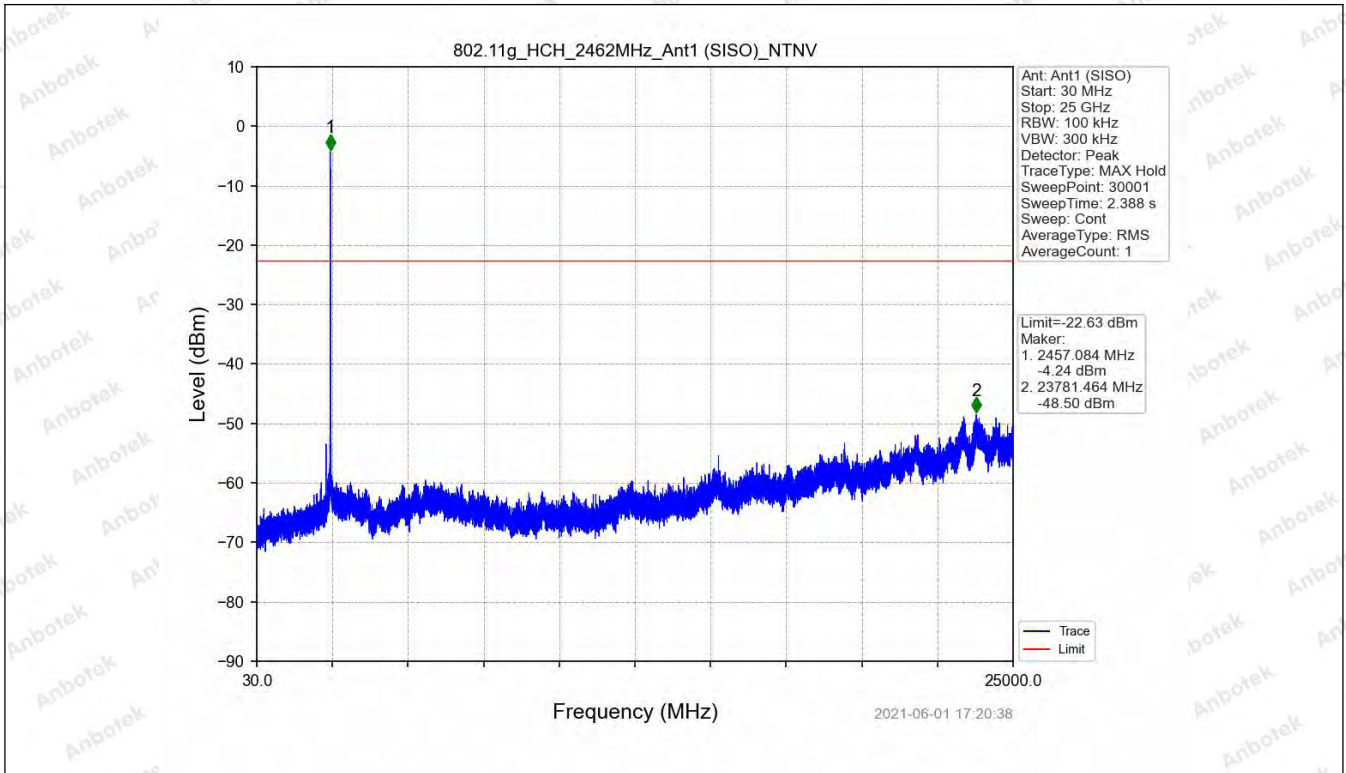
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



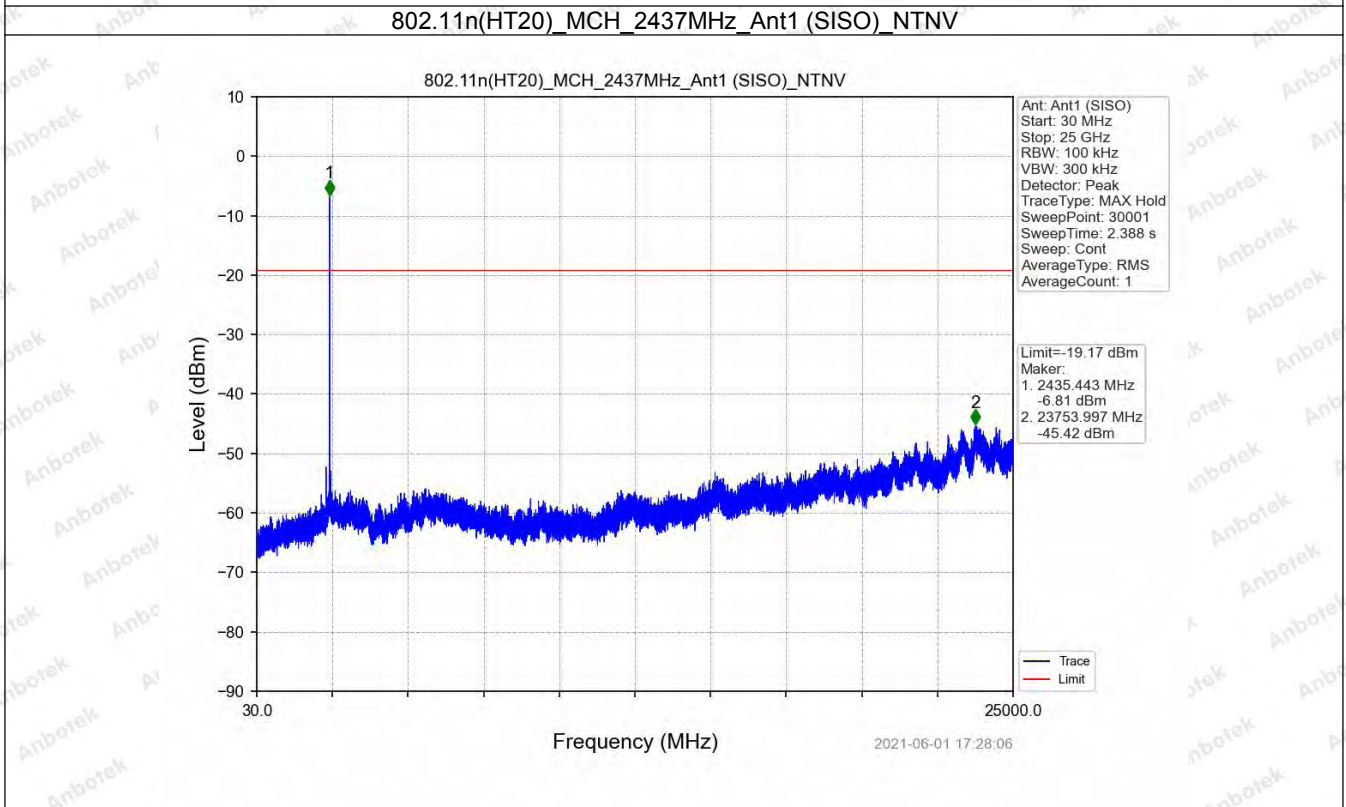
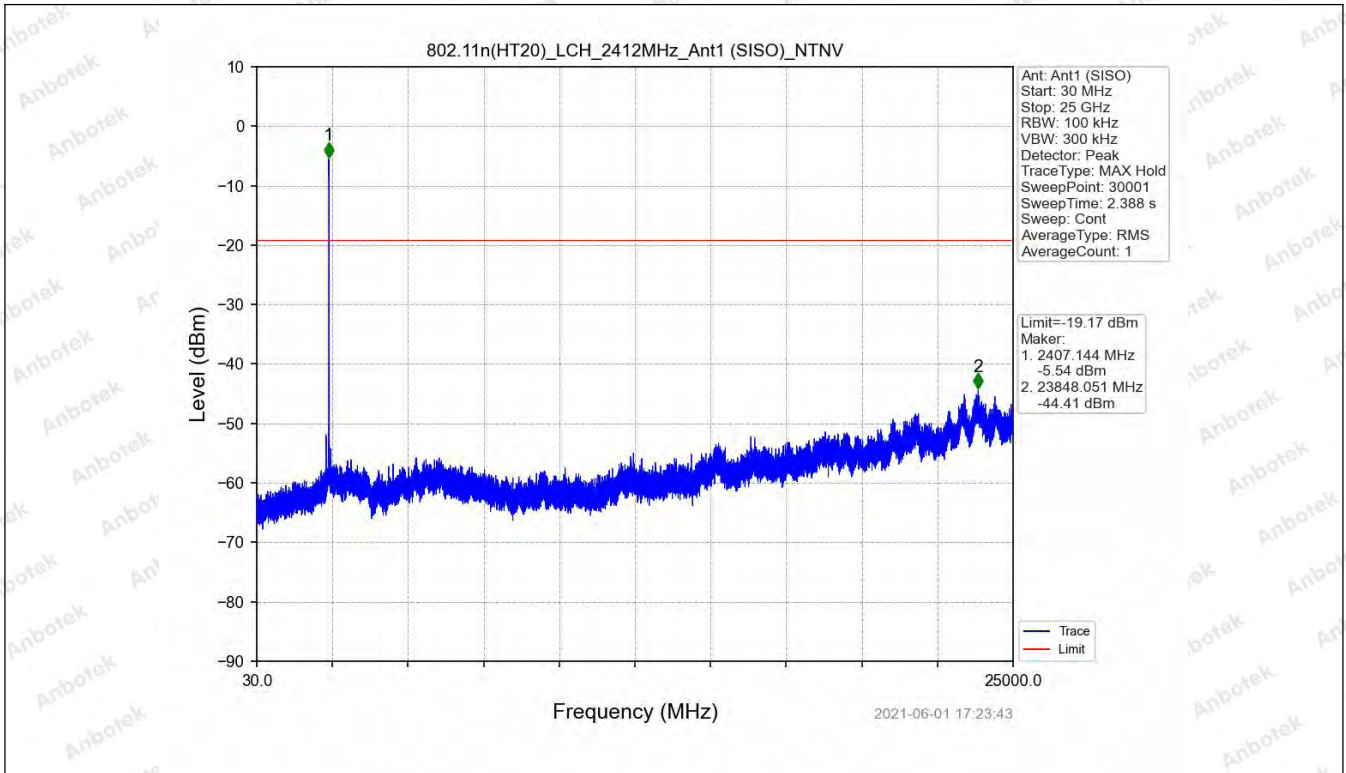
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

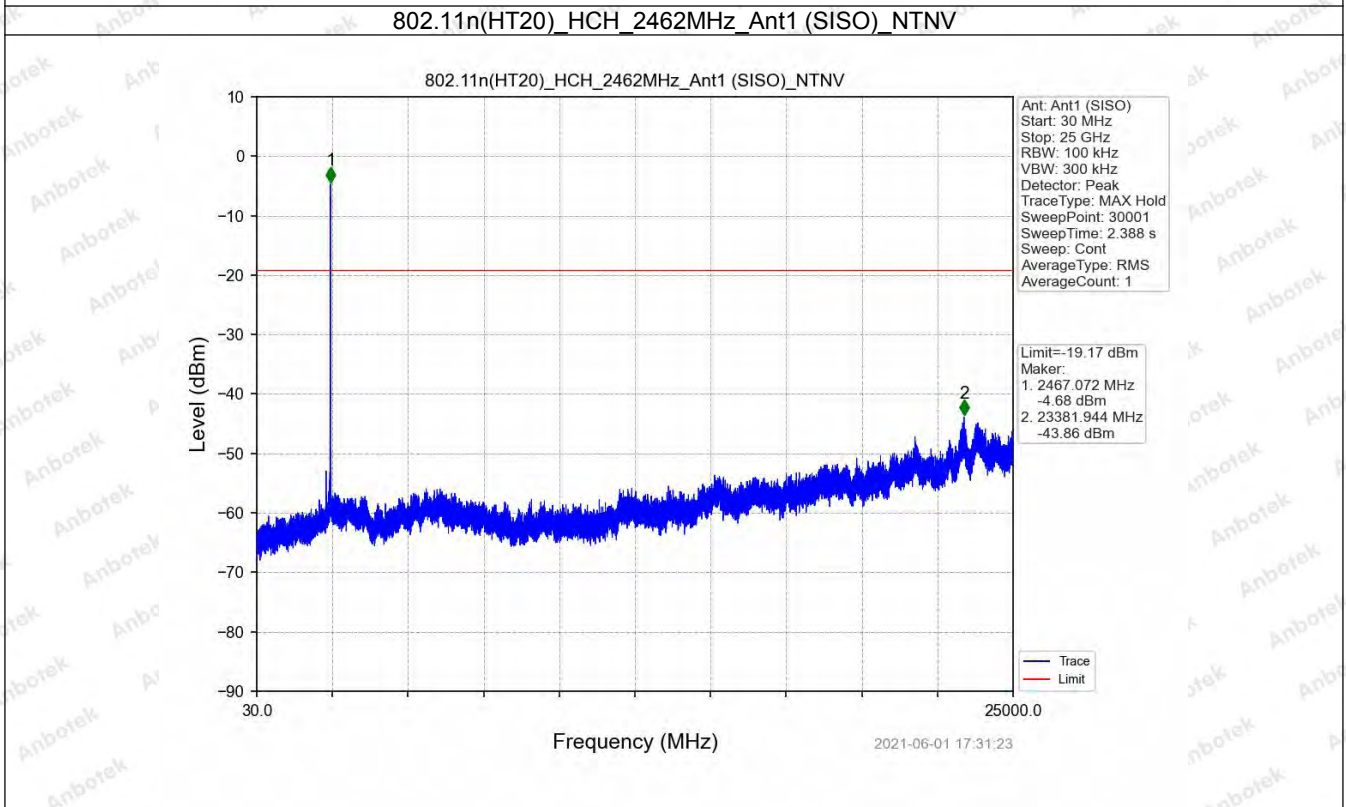
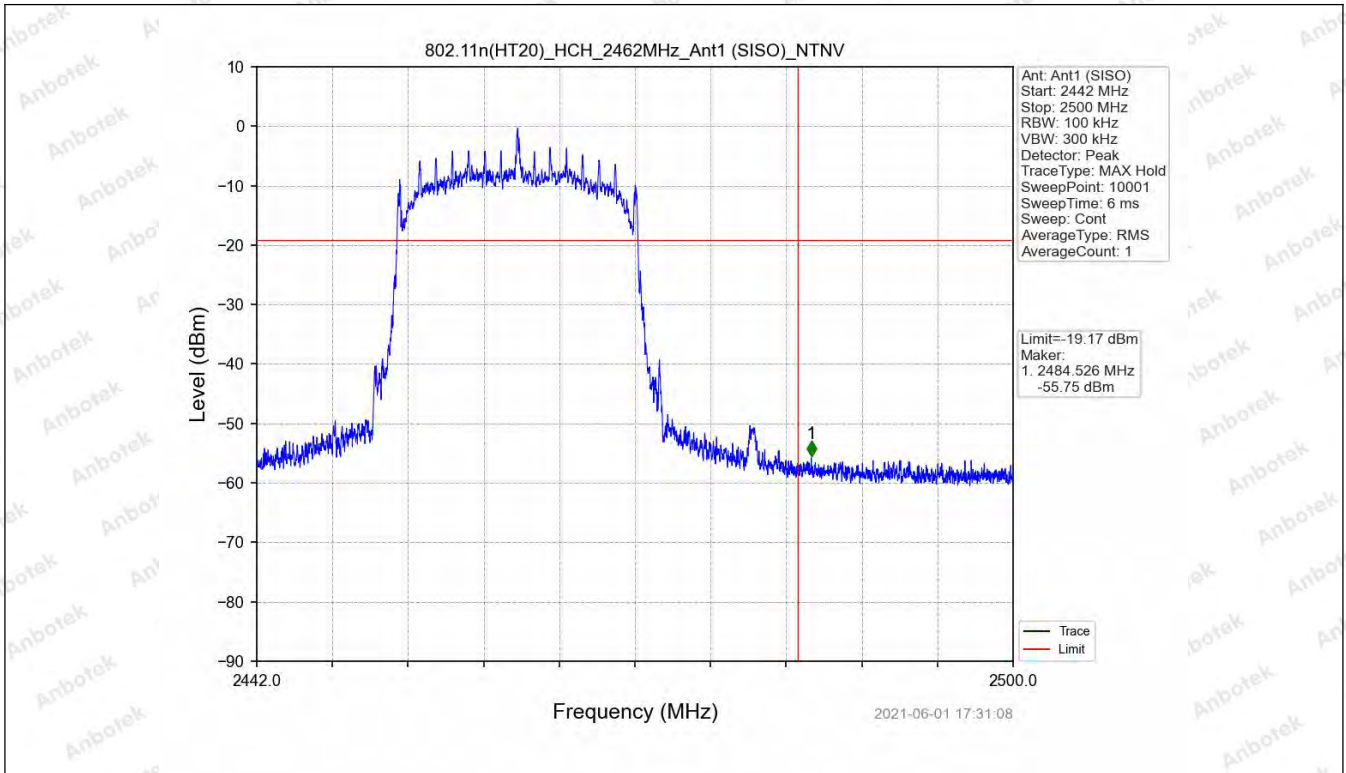


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

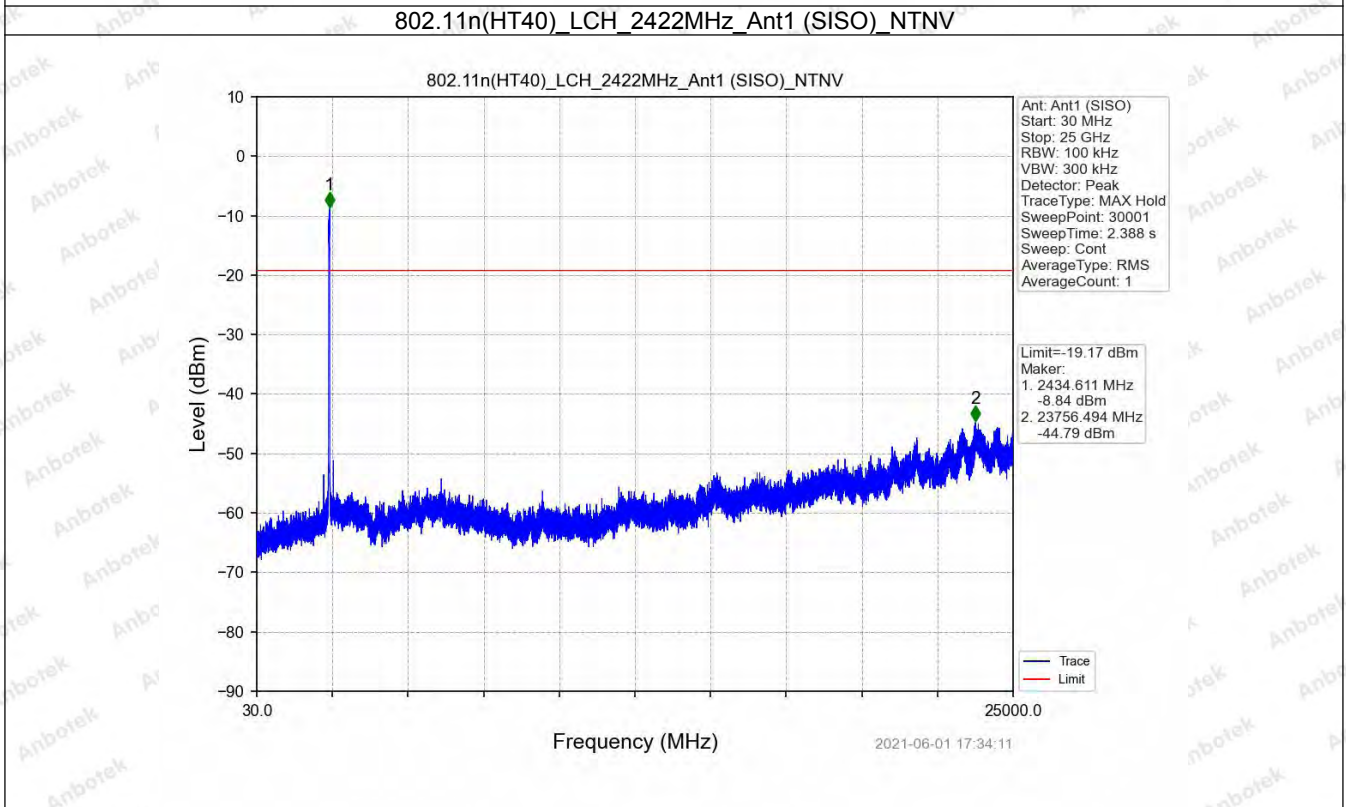
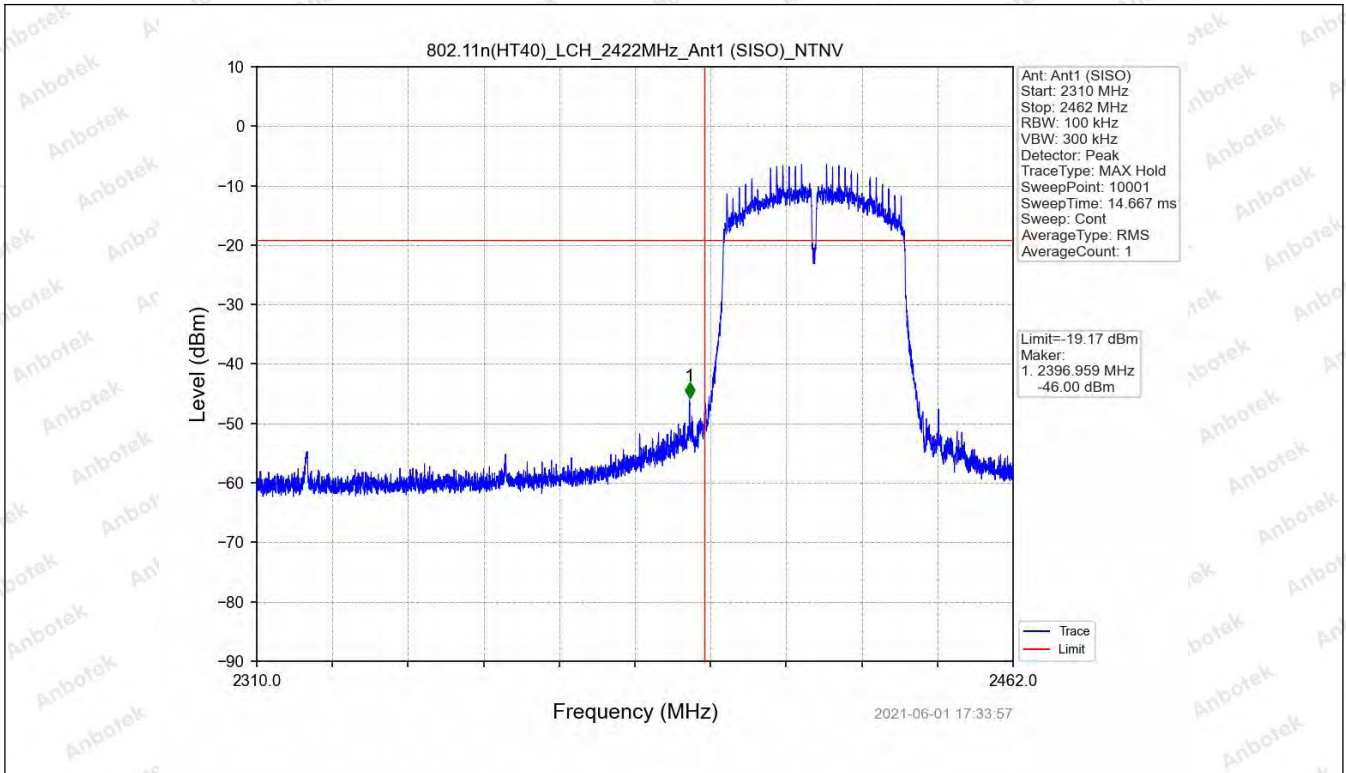


802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

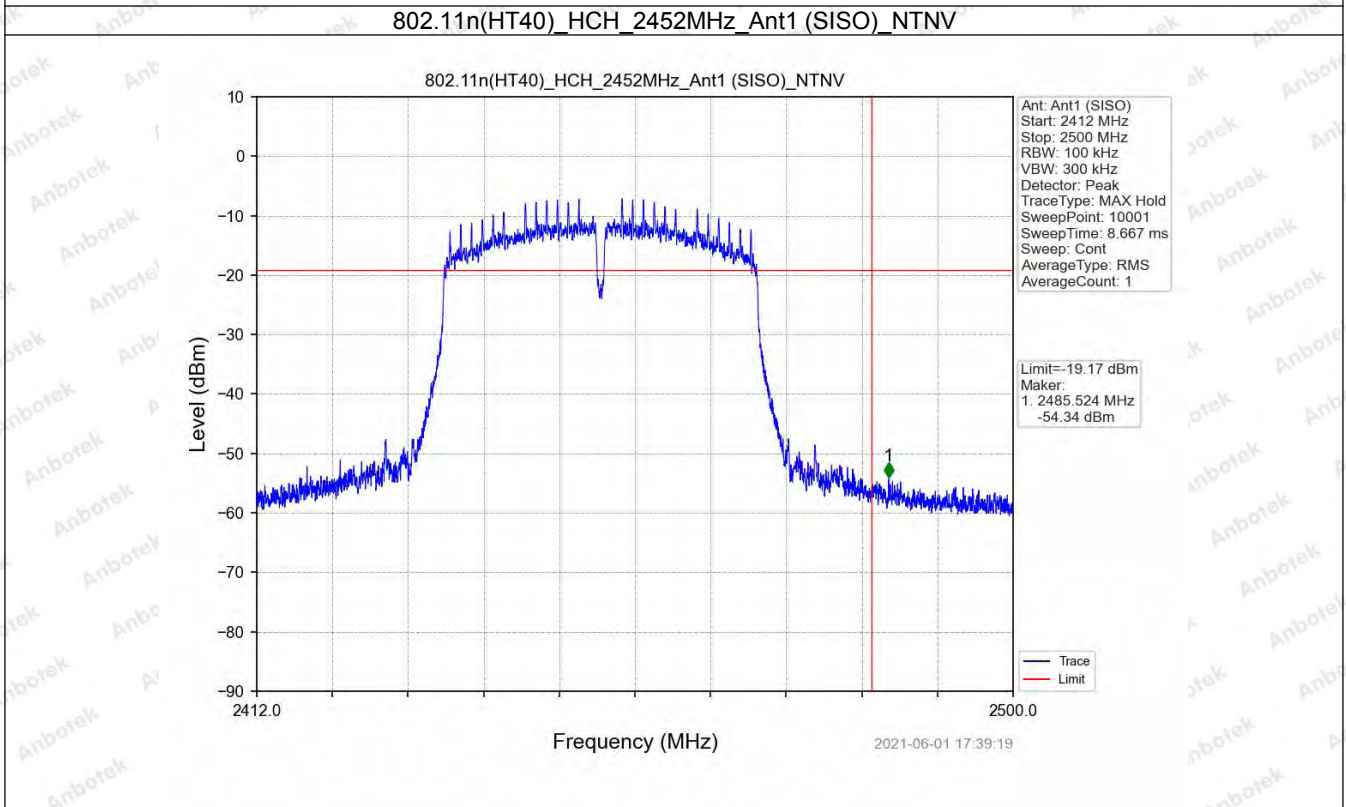
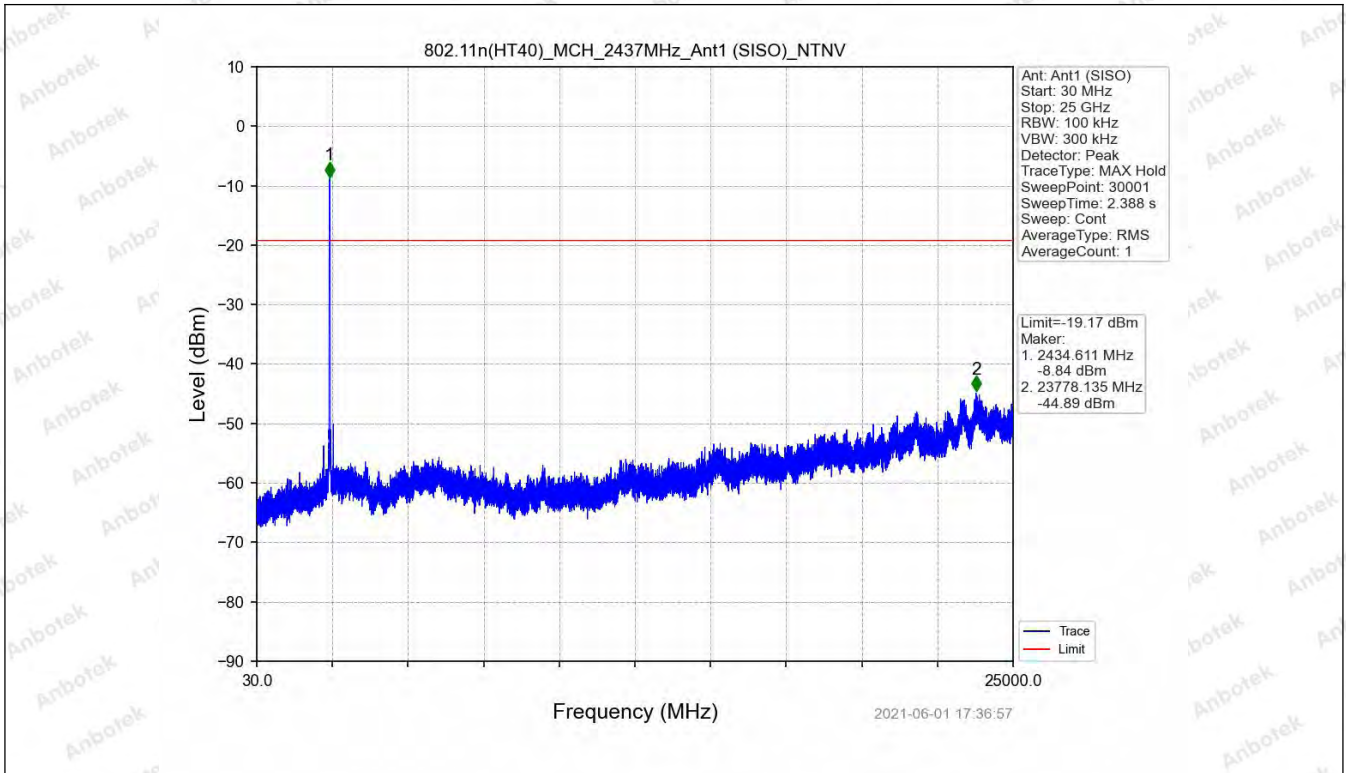




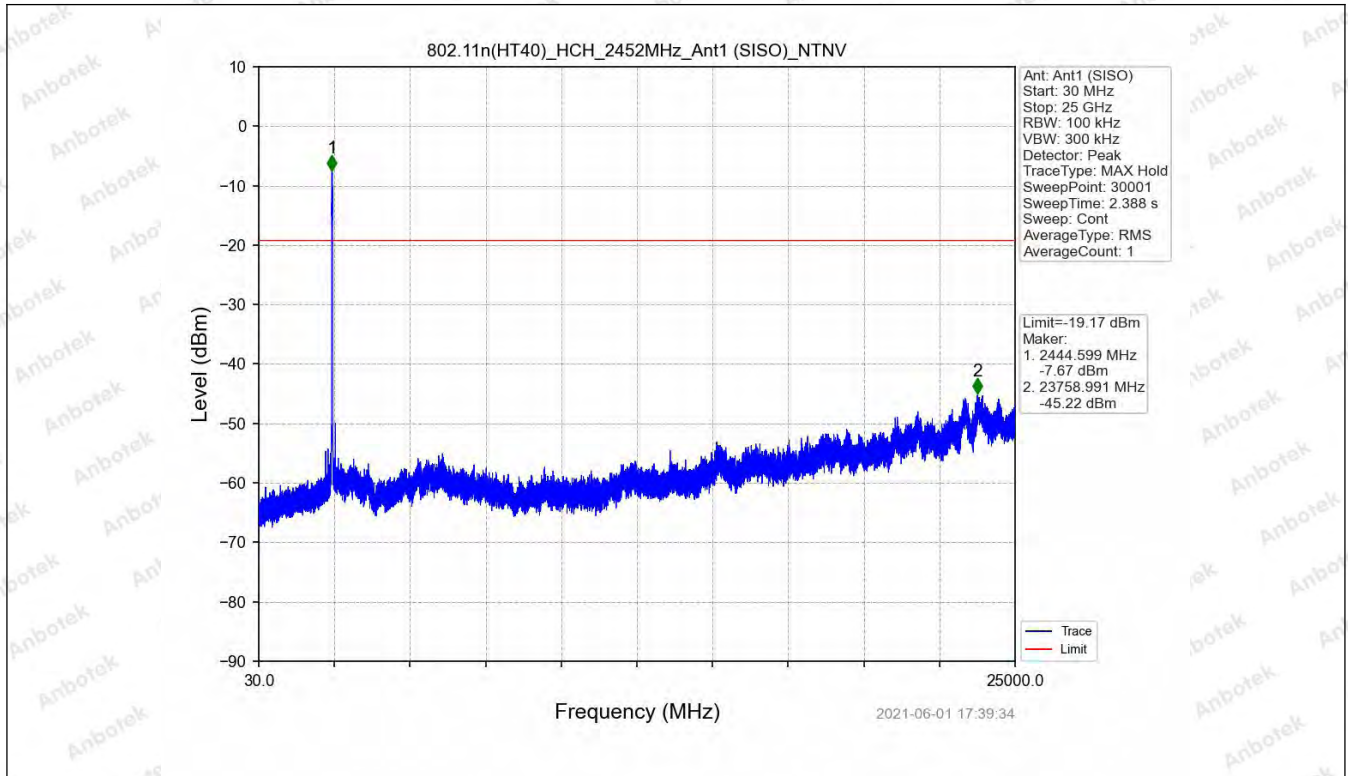
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



---End---

