

Appendix Test Data

Report No.:	18220WC10112102	Test Date:	2021.6.15~2021.6.24
Test Engineer:	<i>Jo ny. He</i>	Auditor:	<i>Edward. Pan</i>
Temperature:	23.3℃	Relative Humidity:	56%
Pressure:	1012 hPa		

1. Duty Cycle

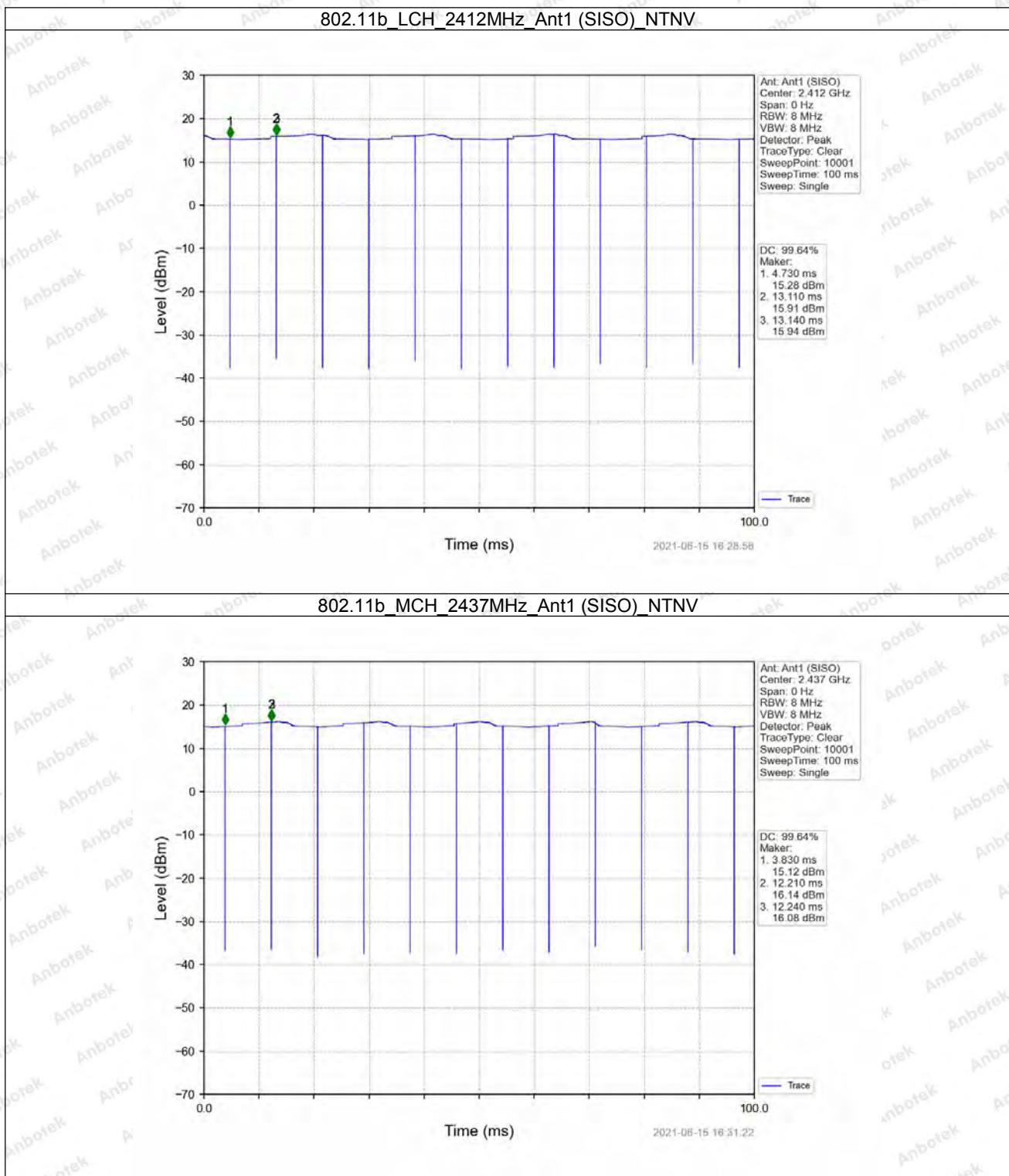
1.1 Ant1

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	/	/	2.06	2.19	94.07	0.27	0.11
		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	1.33	97.30	0.12	0.00
		2462	/	/	1.30	1.33	97.30	0.12	0.10

Note1: Only for Report Use

1.1.2 Test Graph



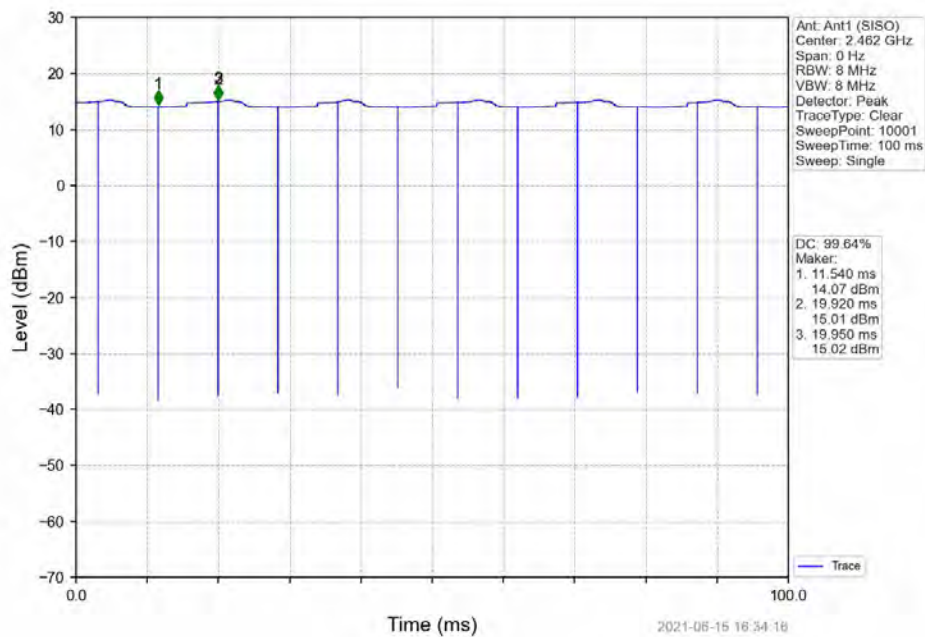
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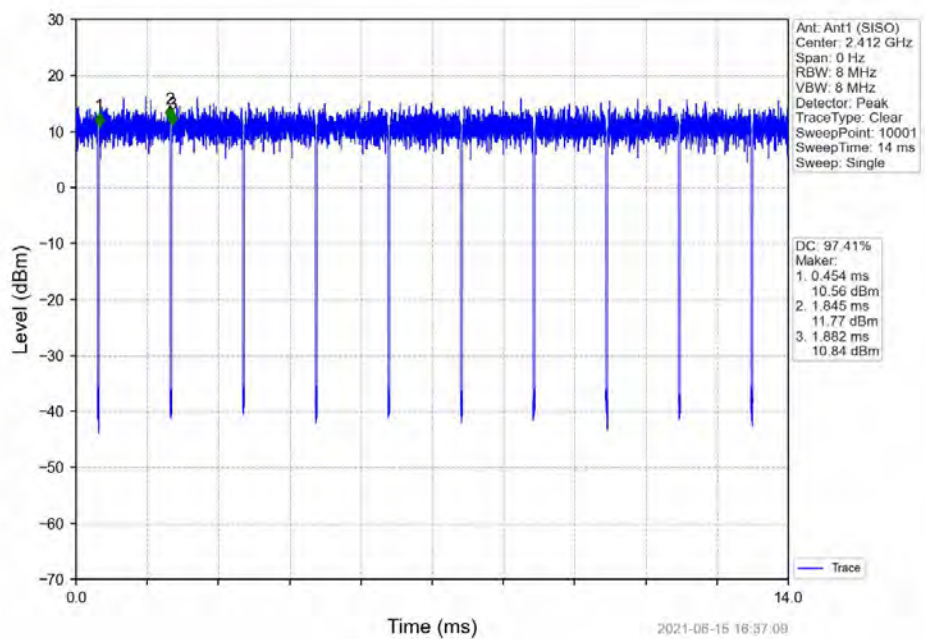
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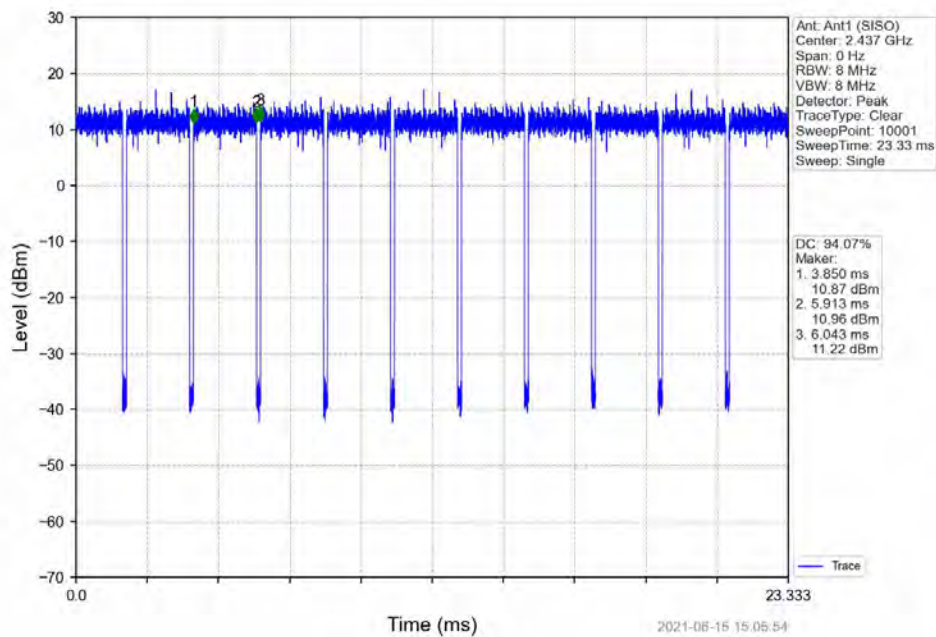
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



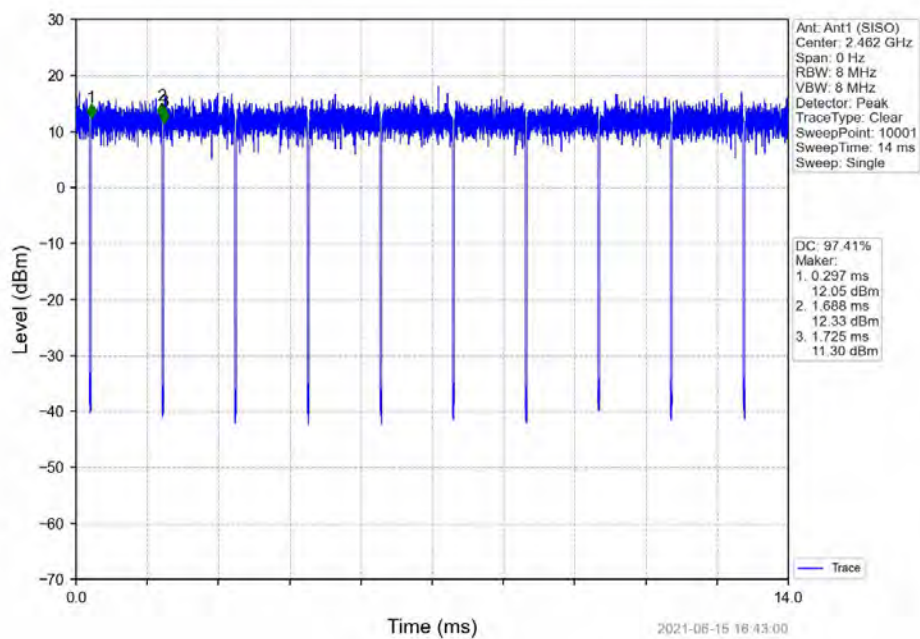
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



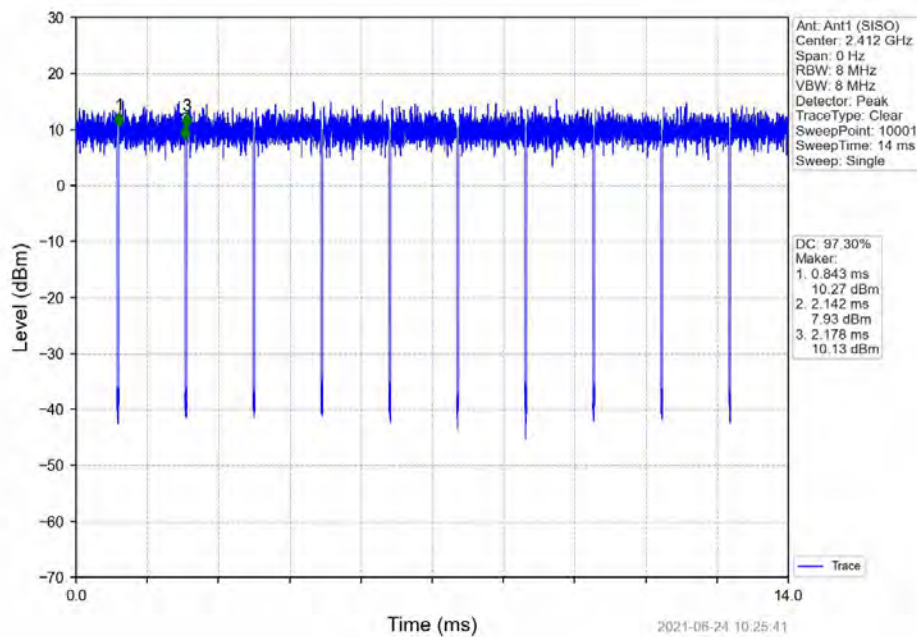
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



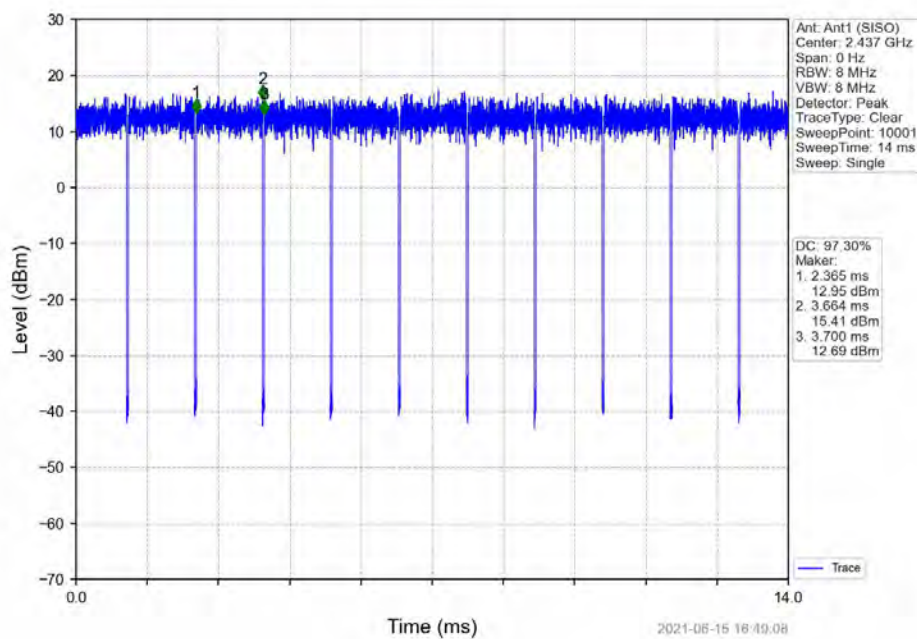
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

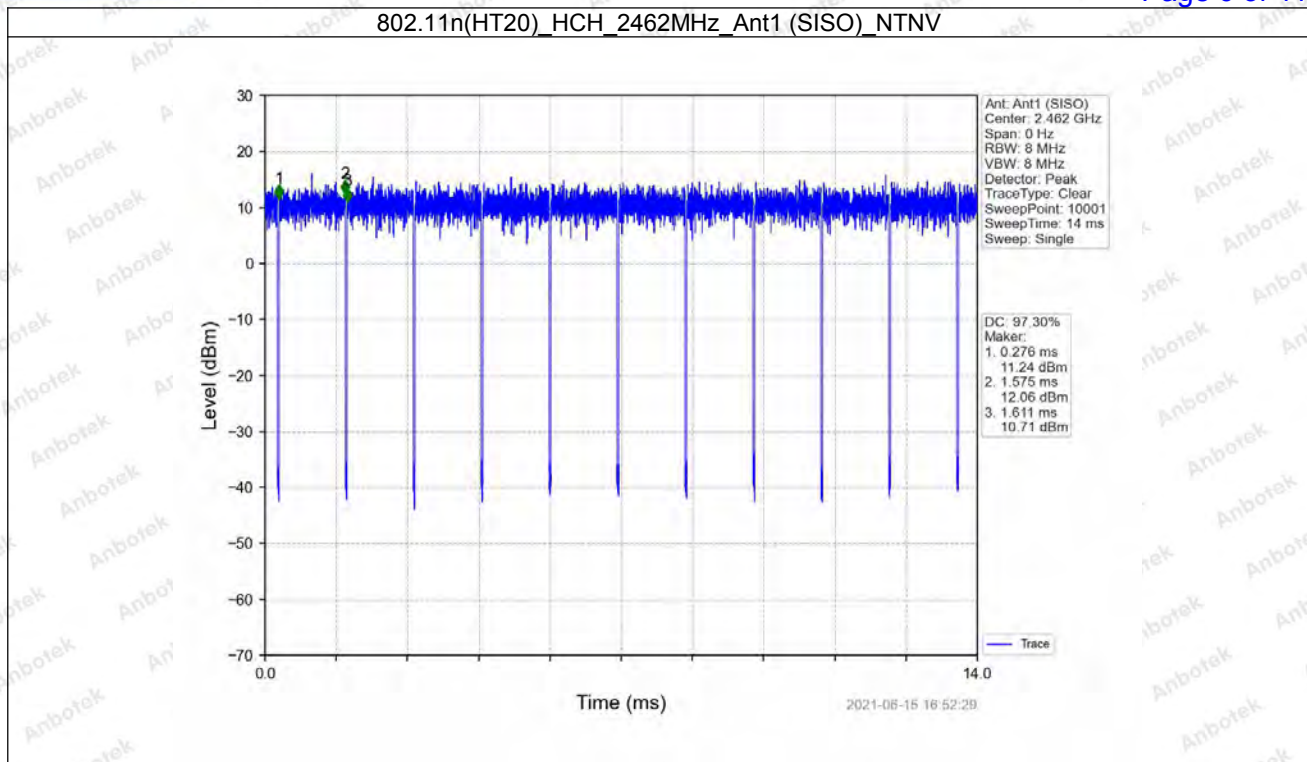


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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2. Bandwidth

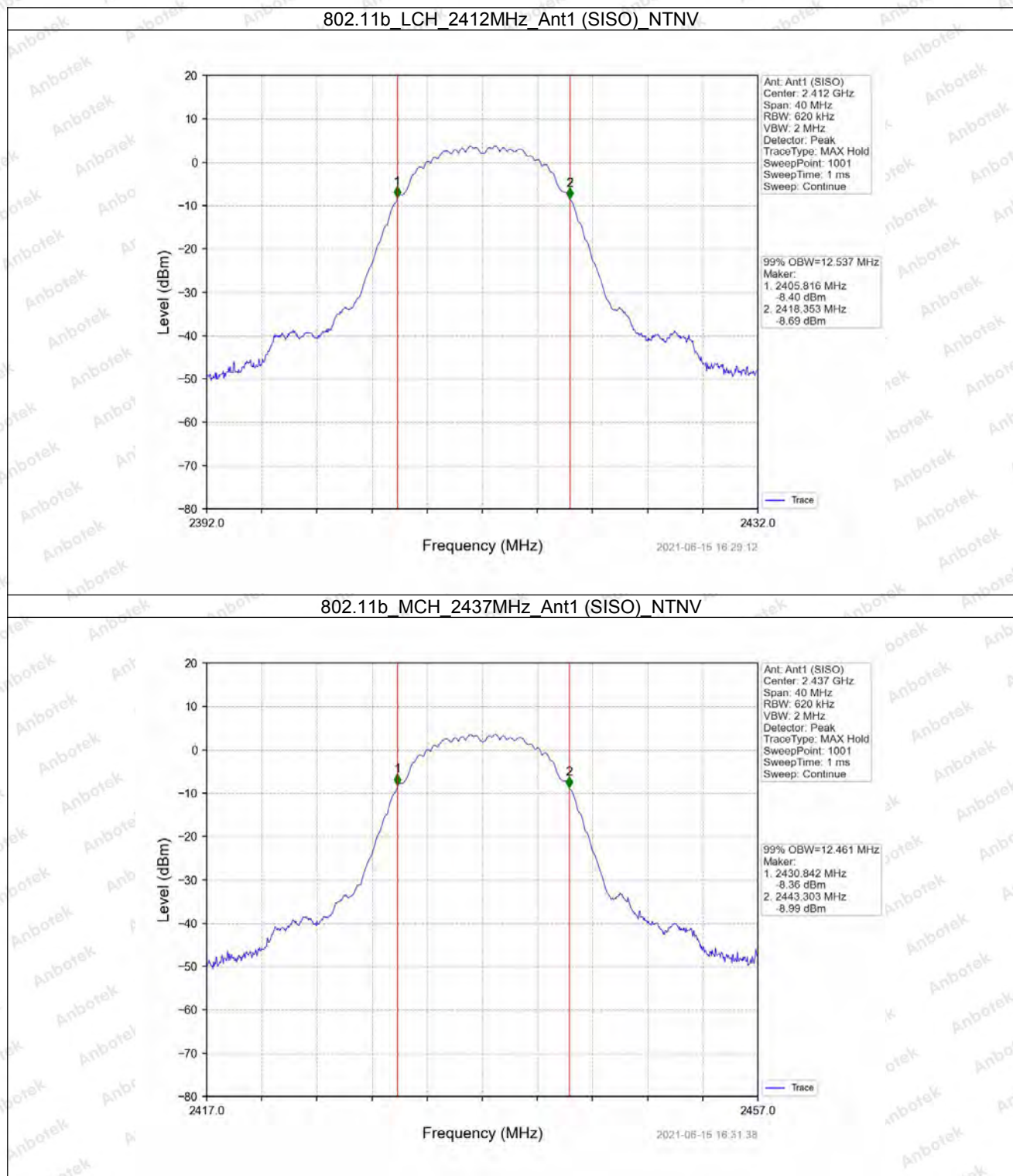
2.1 OBW

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	12.54	/	Note1
		2437	/	/	1	12.46	/	Note1
		2462	/	/	1	12.42	/	Note1
802.11g	SISO	2412	/	/	1	17.47	/	Note1
		2437	/	/	1	17.73	/	Note1
		2462	/	/	1	18.16	/	Note1
802.11n (HT20)	SISO	2412	/	/	1	18.15	/	Note1
		2437	/	/	1	18.45	/	Note1
		2462	/	/	1	18.70	/	Note1

Note1: Only for Report Use

2.1.2 Test Graph



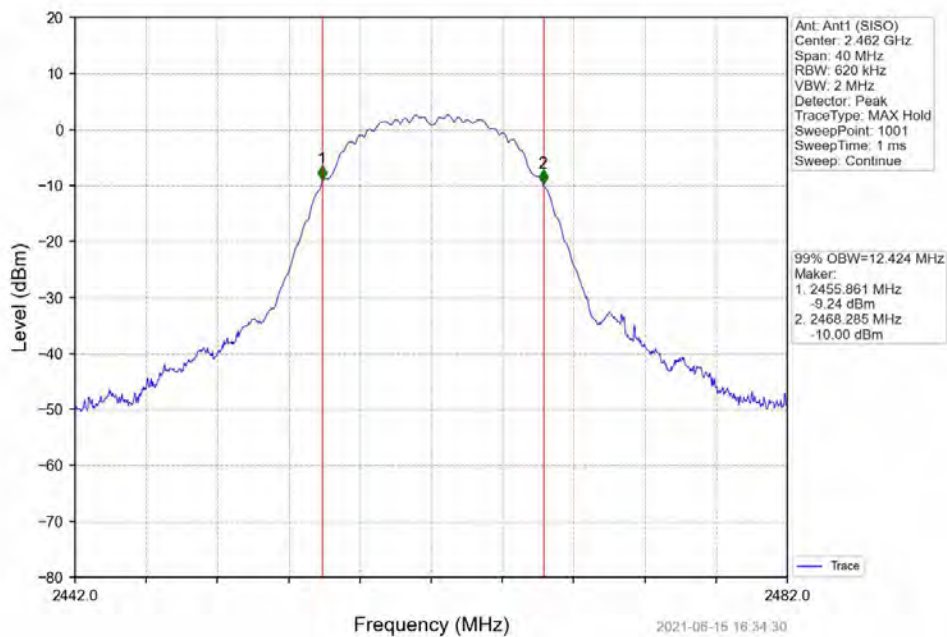
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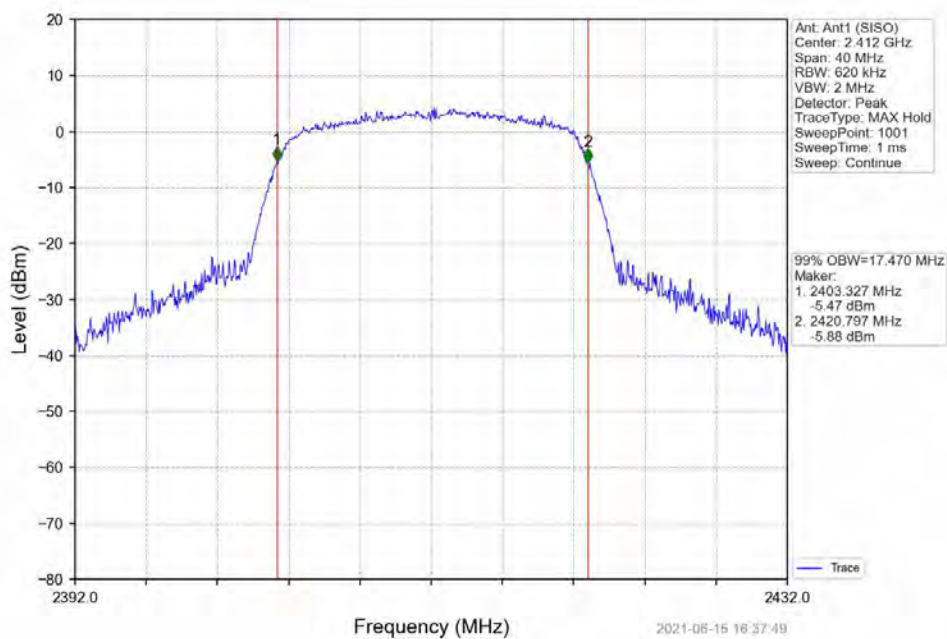
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



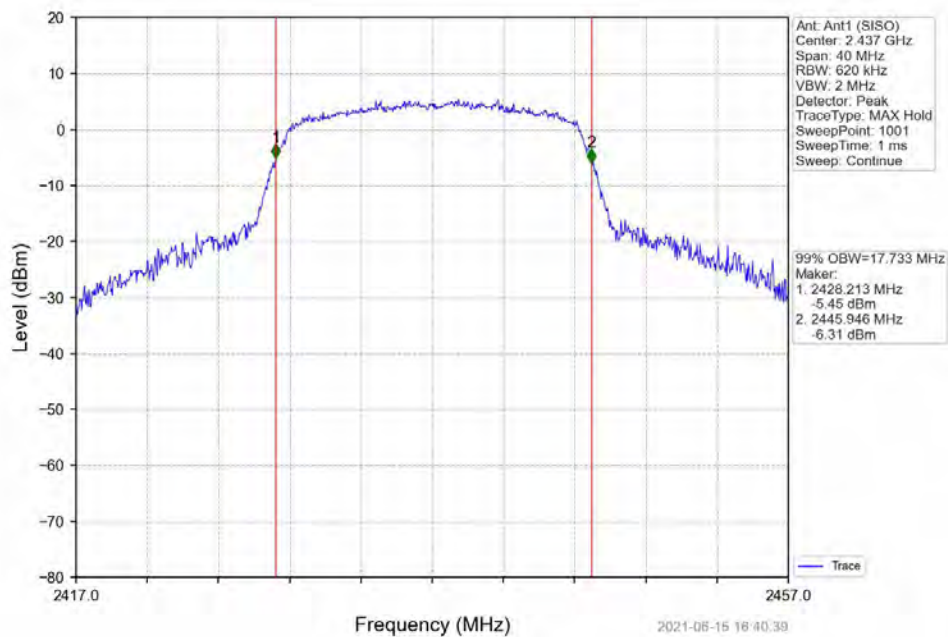
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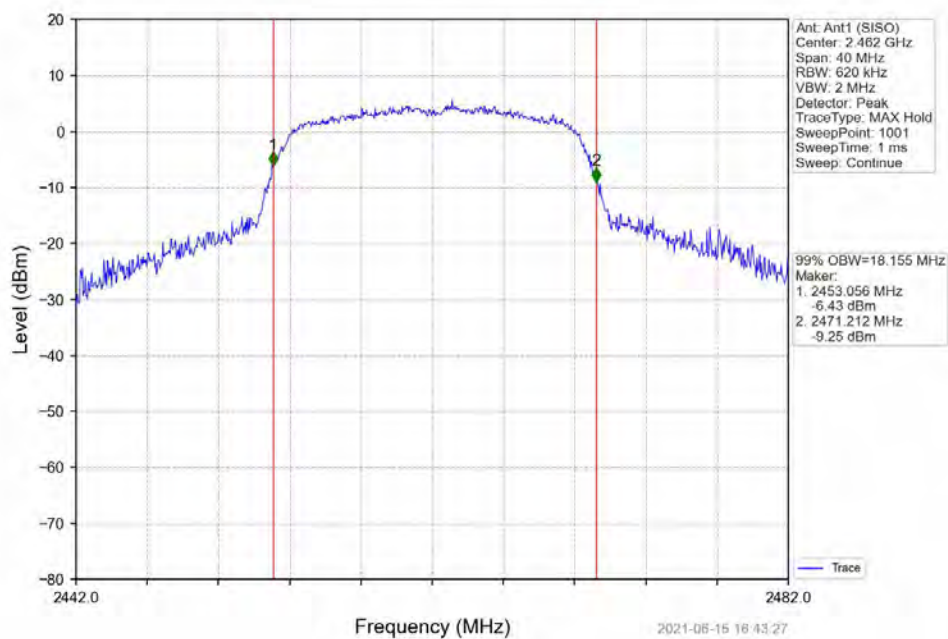
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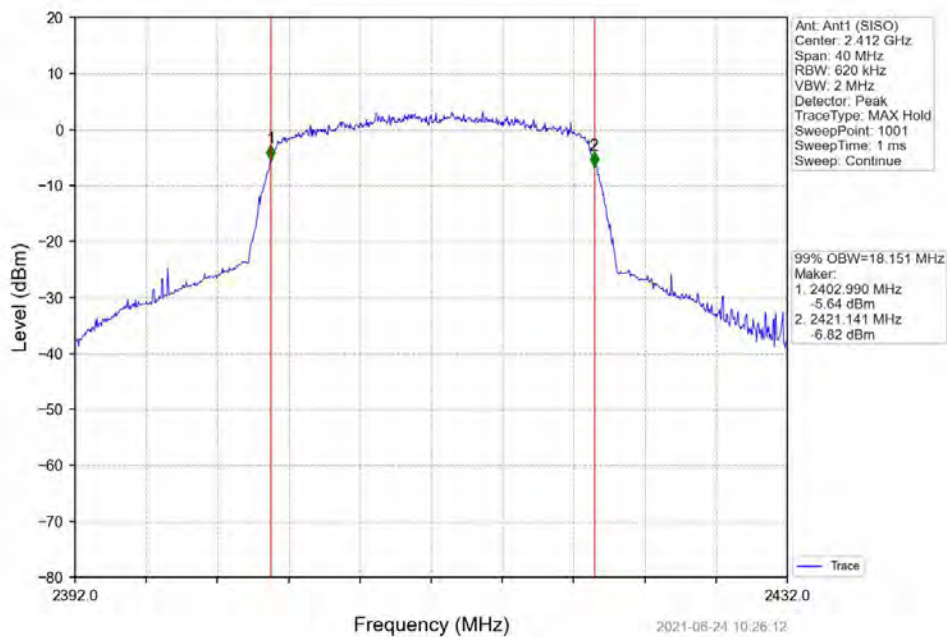
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



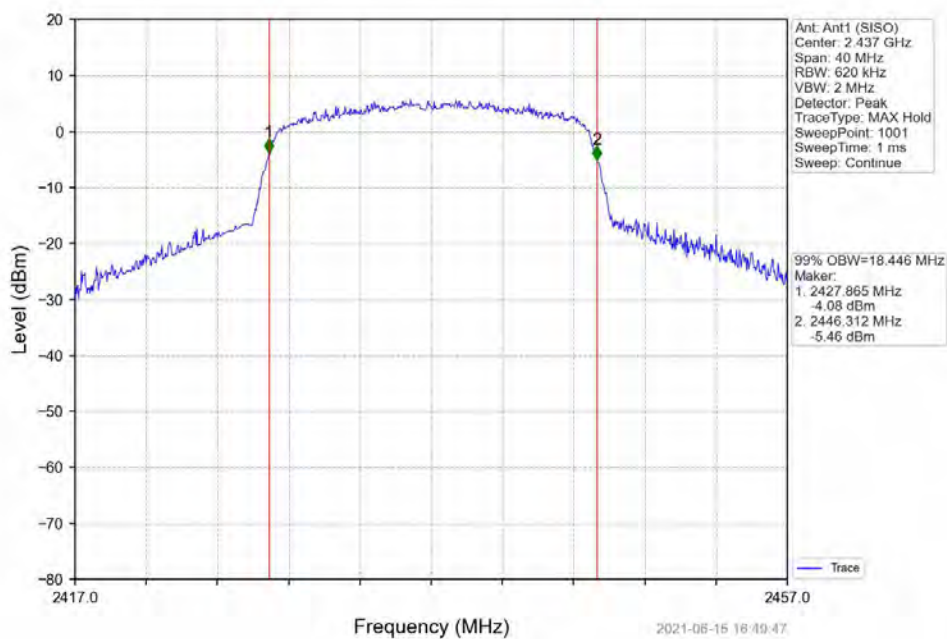
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

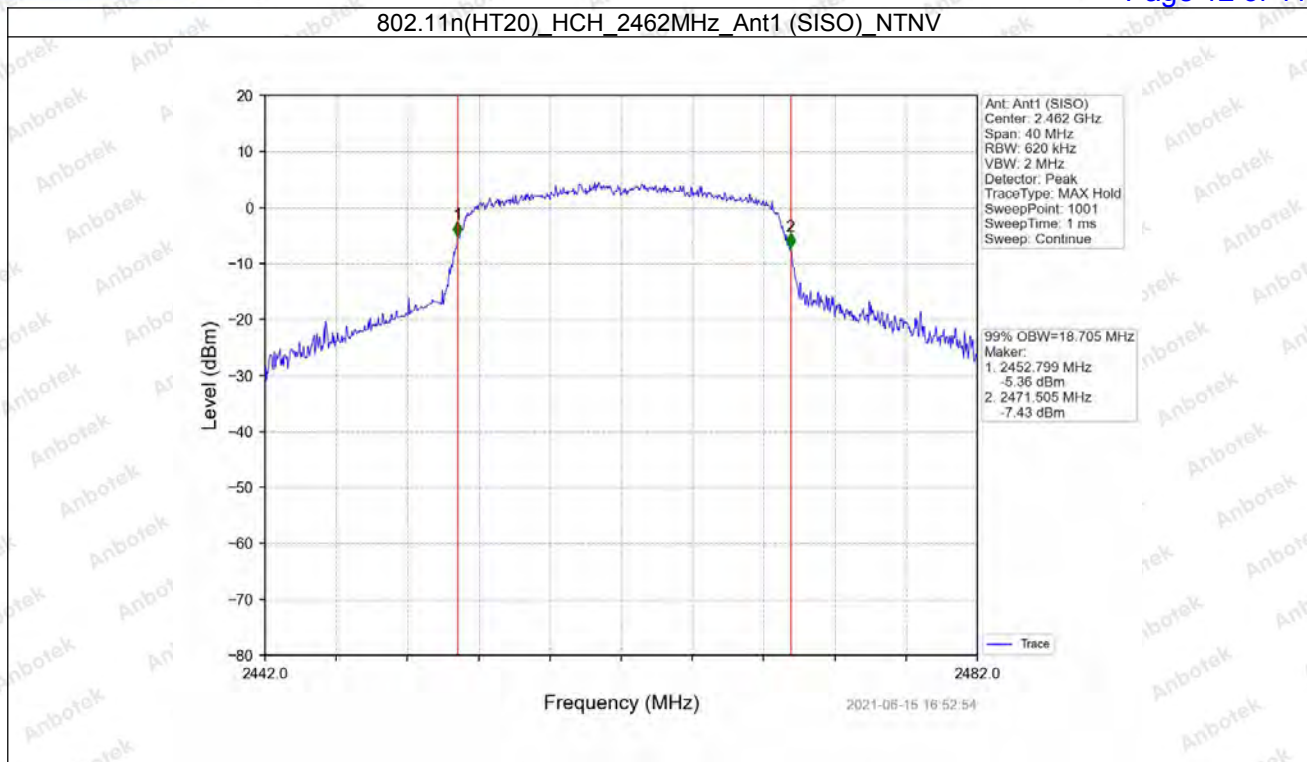


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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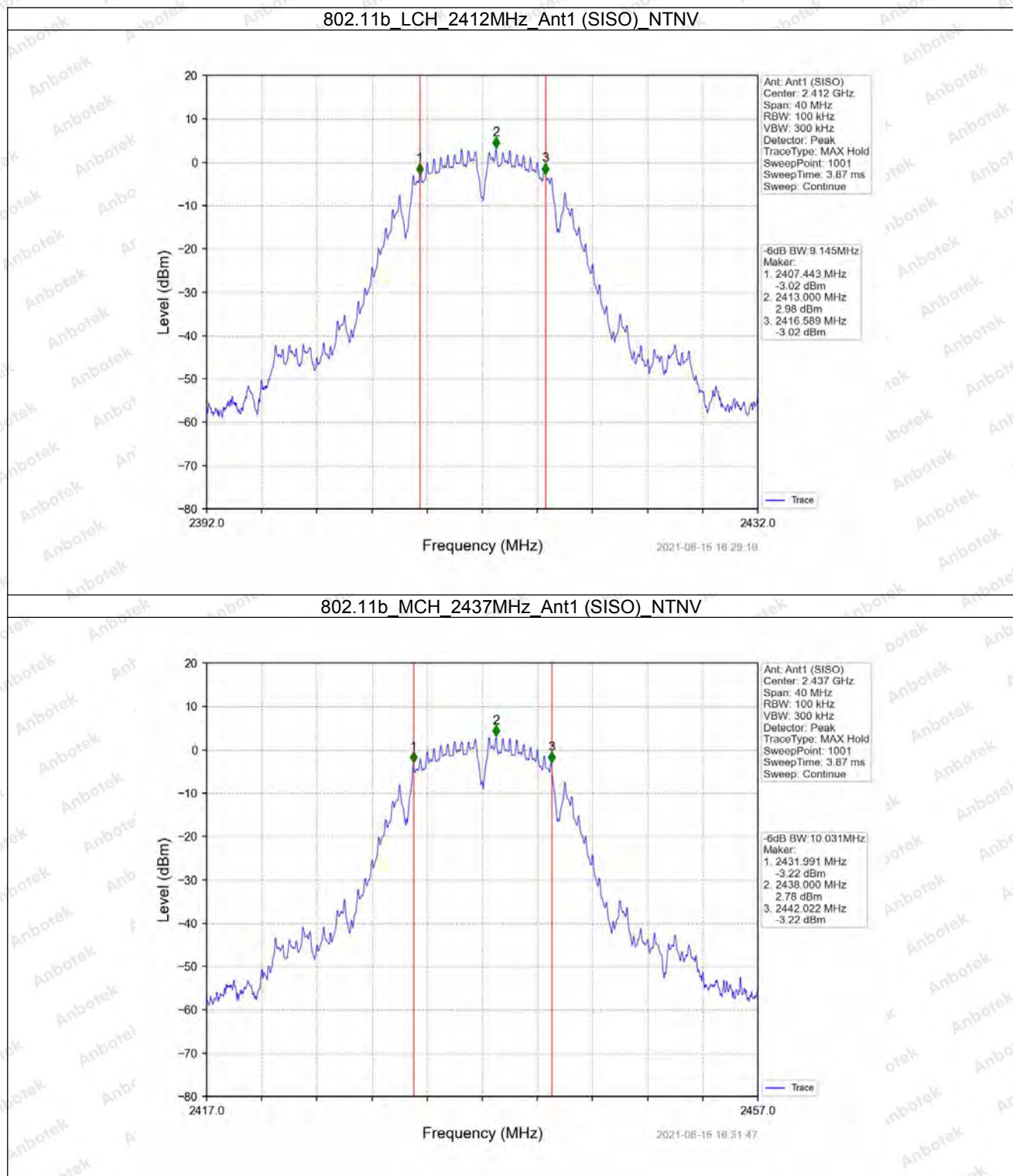
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2.2 XDB

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	6dB Bandwidth (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	1	9.14	≥ 0.5	Pass
		2437	/	/	1	10.03	≥ 0.5	Pass
		2462	/	/	1	9.13	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	15.16	≥ 0.5	Pass
		2437	/	/	1	15.17	≥ 0.5	Pass
		2462	/	/	1	15.39	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	15.17	≥ 0.5	Pass
		2437	/	/	1	15.17	≥ 0.5	Pass
		2462	/	/	1	15.31	≥ 0.5	Pass

2.2.2 Test Graph



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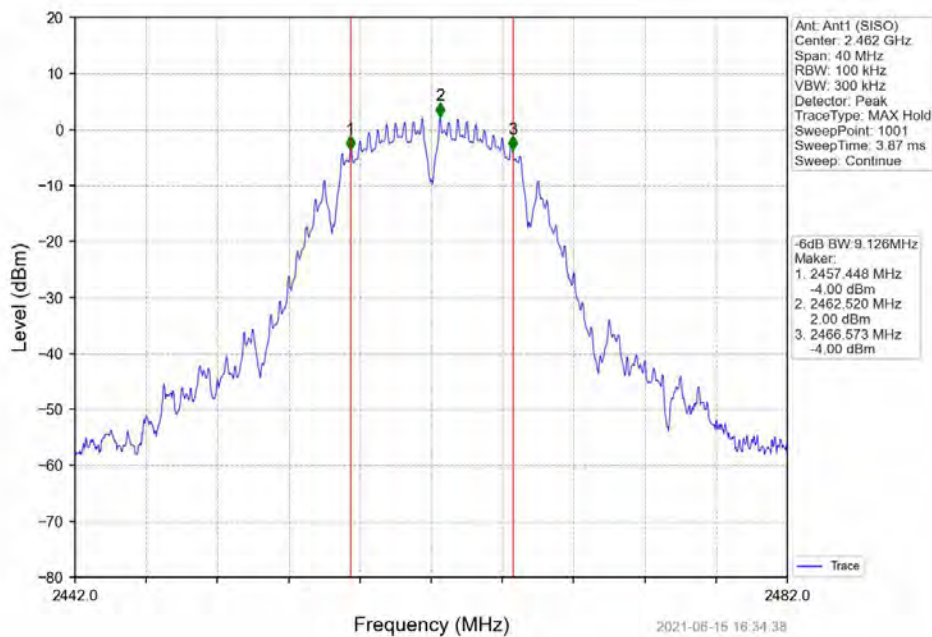


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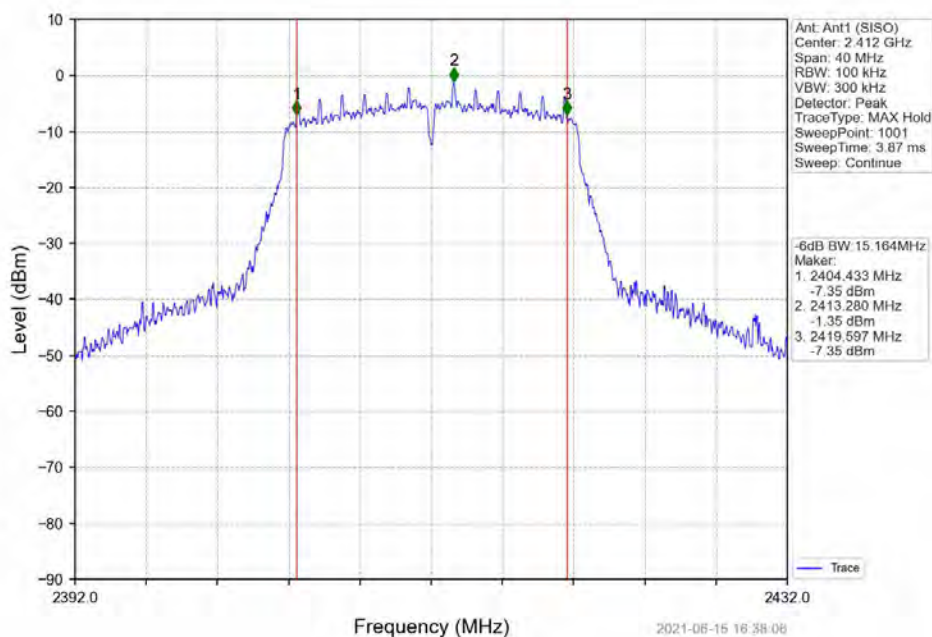
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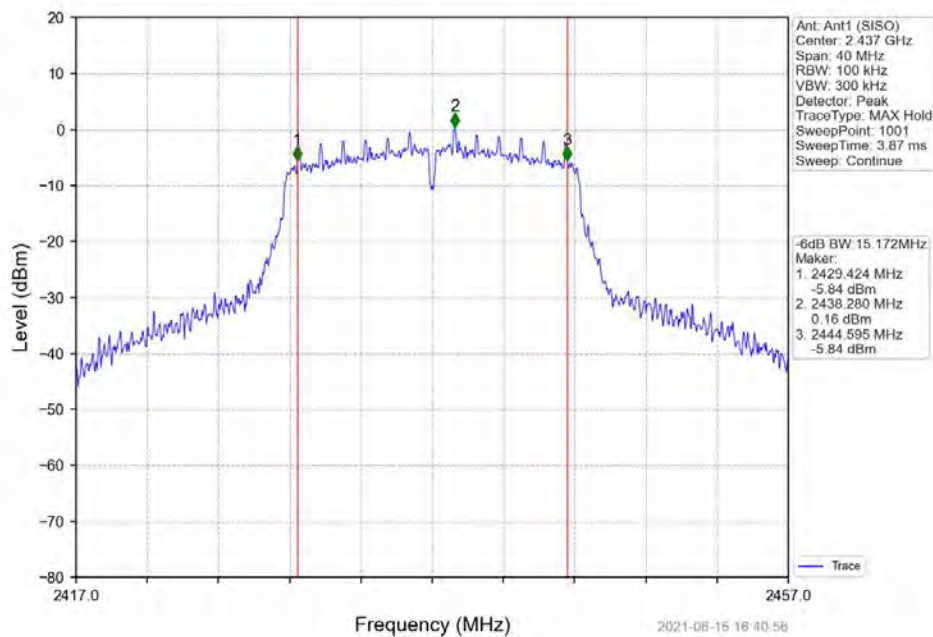
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



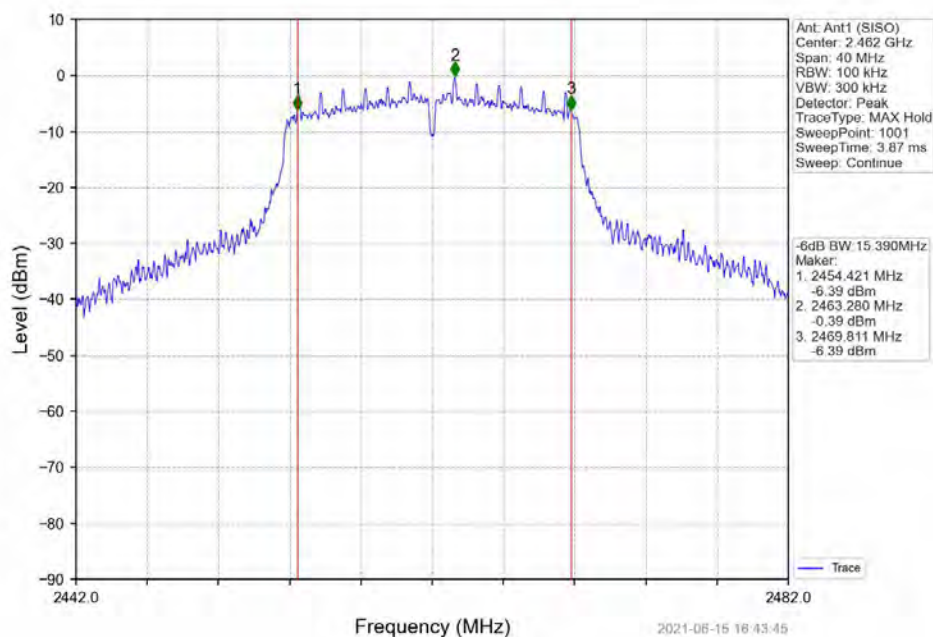
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



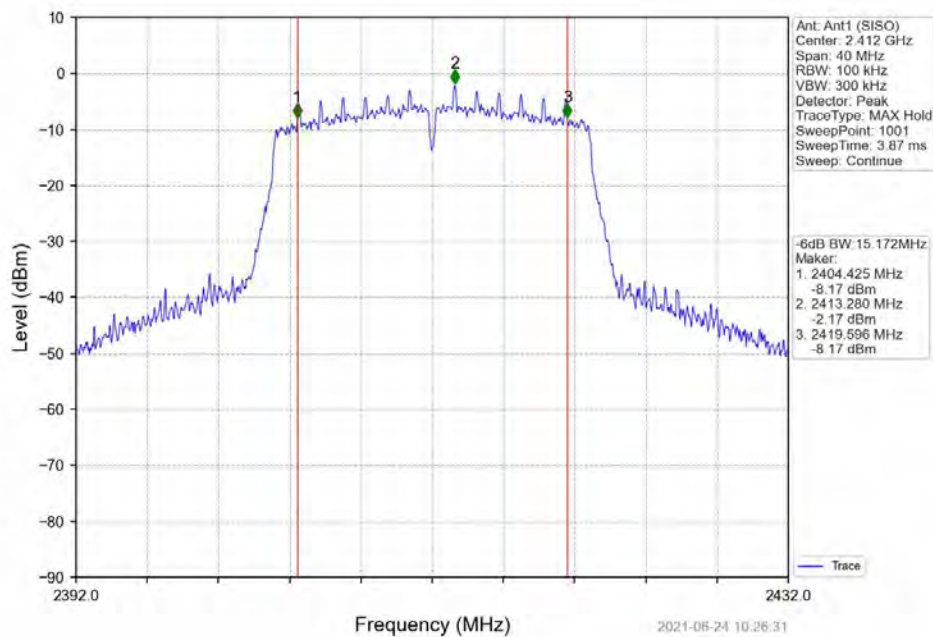
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



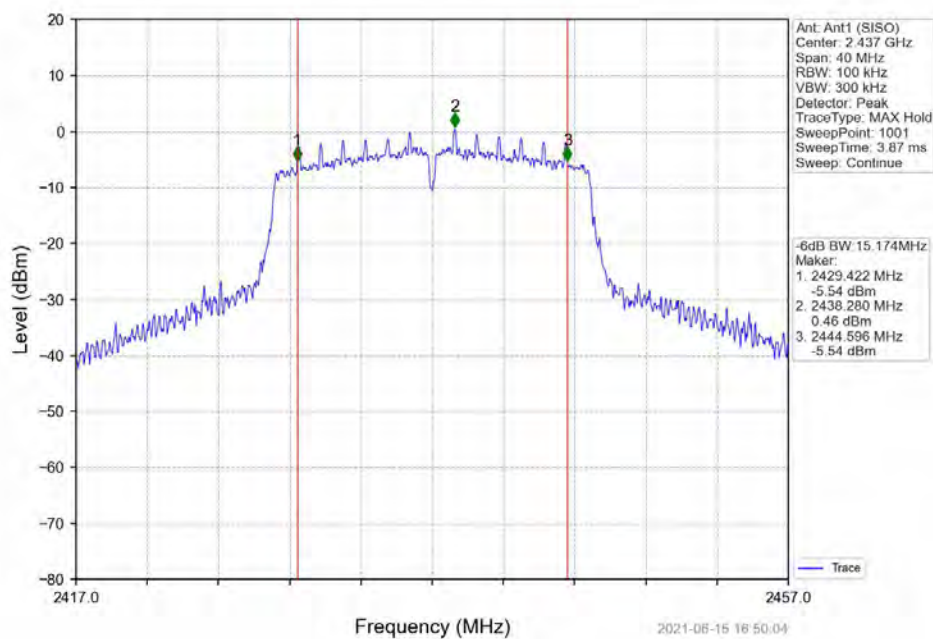
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

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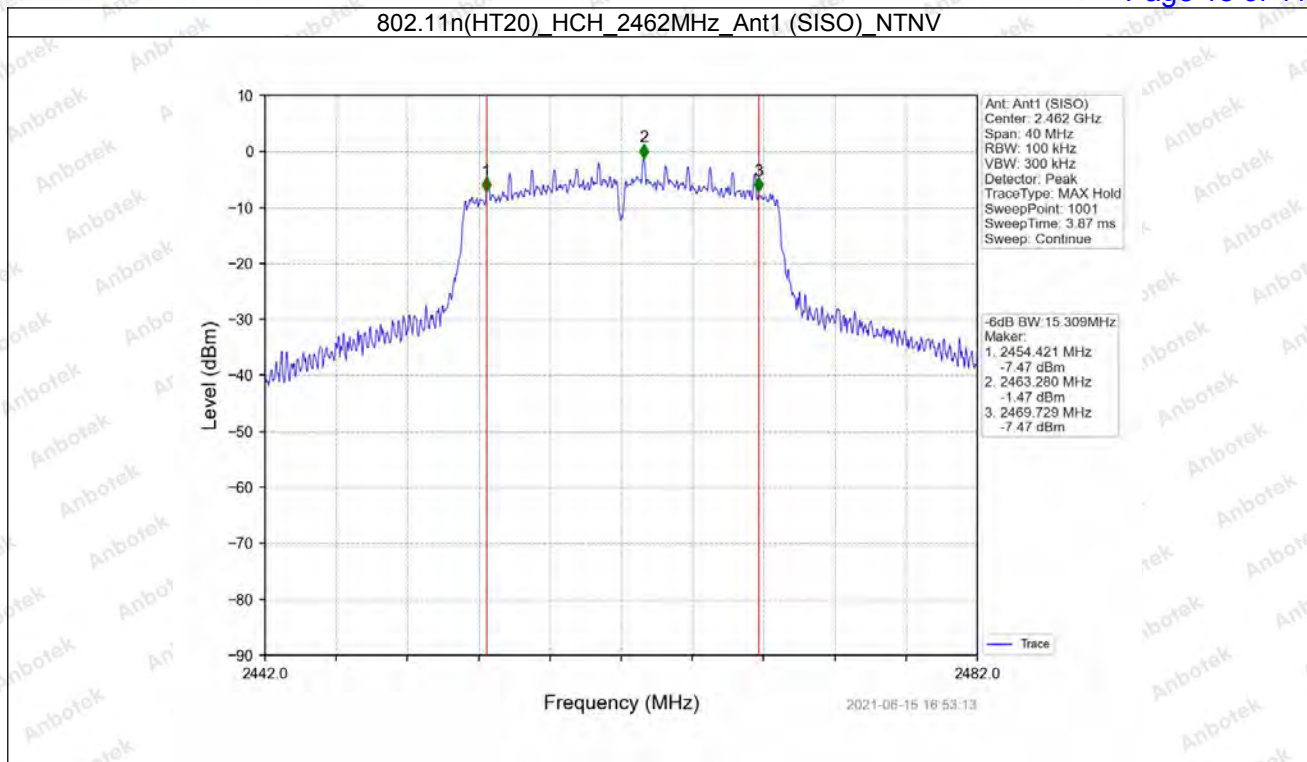
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3. Maximum Conducted Output Power

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	/	/	14.30	<=30	Pass
		2437	/	/	14.16	<=30	Pass
		2462	/	/	13.12	<=30	Pass
802.11g	SISO	2412	/	/	16.06	<=30	Pass
		2437	/	/	17.55	<=30	Pass
		2462	/	/	17.02	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	18.37	<=30	Pass
		2437	/	/	16.06	<=30	Pass
		2462	/	/	14.21	<=30	Pass

Note1: Antenna Gain: 1: 1.50dBi;

3.2 EIRP

3.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)	Limit (dBm)	Verdict
					Ant1		
802.11b	SISO	2412	/	/	15.80	/	Note3
		2437	/	/	15.66	/	Note3
		2462	/	/	14.62	/	Note3
802.11g	SISO	2412	/	/	17.56	/	Note3
		2437	/	/	19.05	/	Note3
		2462	/	/	18.52	/	Note3
802.11n (HT20)	SISO	2412	/	/	19.87	/	Note3
		2437	/	/	17.56	/	Note3
		2462	/	/	15.71	/	Note3

Note1: Antenna Gain: 1: 1.50dBi;
 Note2: E.I.R.P = Measured Power + Antenna Gain
 Note3: Only for Report Use

4. Maximum Power Spectral Density

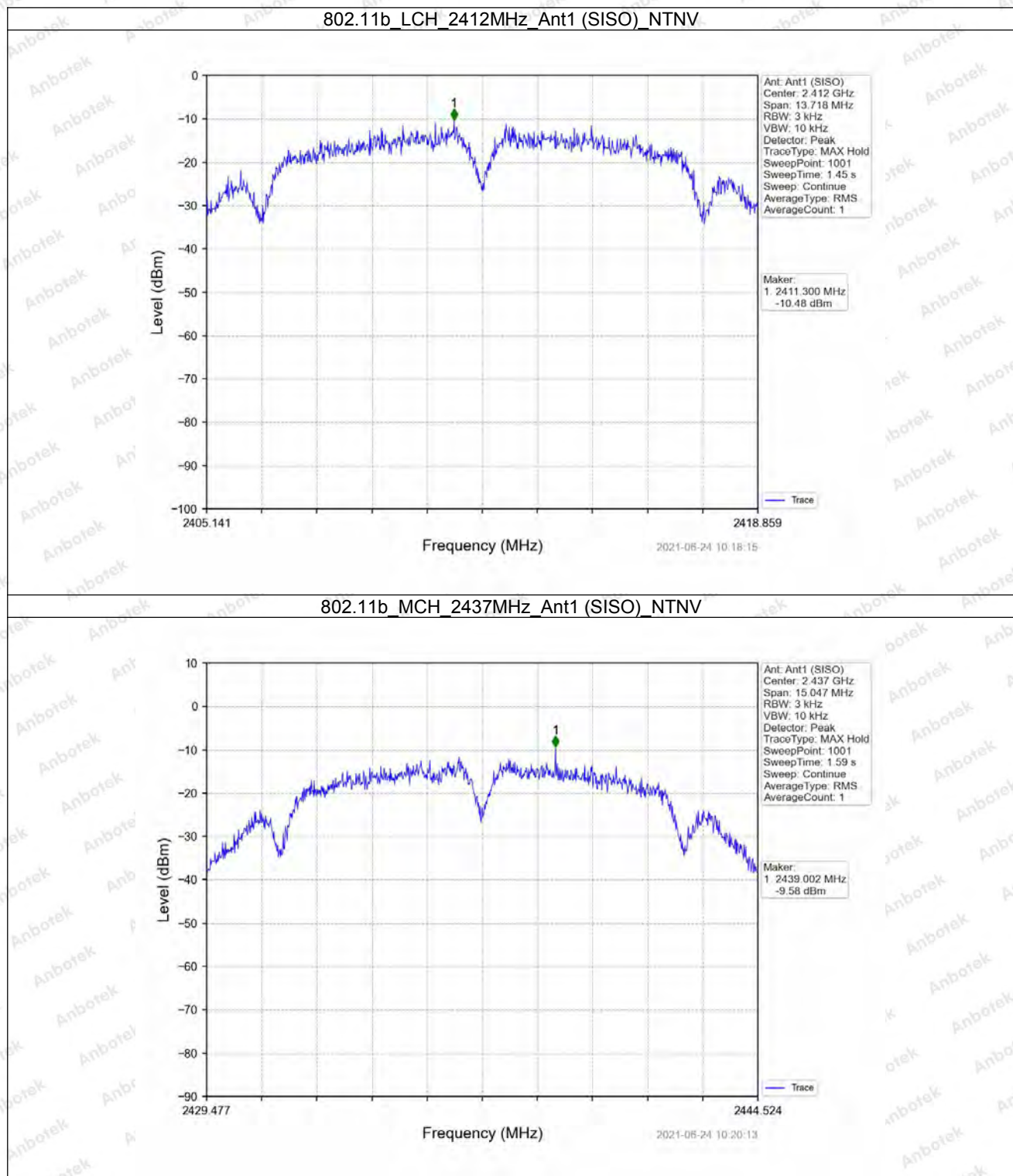
4.1 PSD

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	/	/	-10.48	<=8	Pass
		2437	/	/	-9.58	<=8	Pass
		2462	/	/	-11.55	<=8	Pass
802.11g	SISO	2412	/	/	-17.19	<=8	Pass
		2437	/	/	-14.46	<=8	Pass
		2462	/	/	-15.16	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-17.77	<=8	Pass
		2437	/	/	-15.11	<=8	Pass
		2462	/	/	-16.00	<=8	Pass

Note1: Antenna Gain: 1: 1.50dBi;

4.1.2 Test Graph



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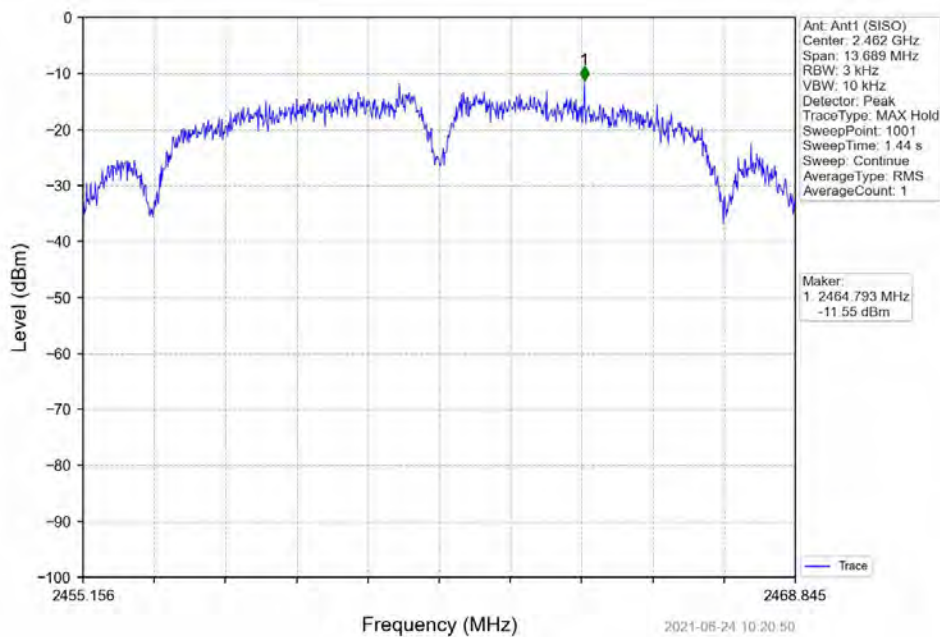


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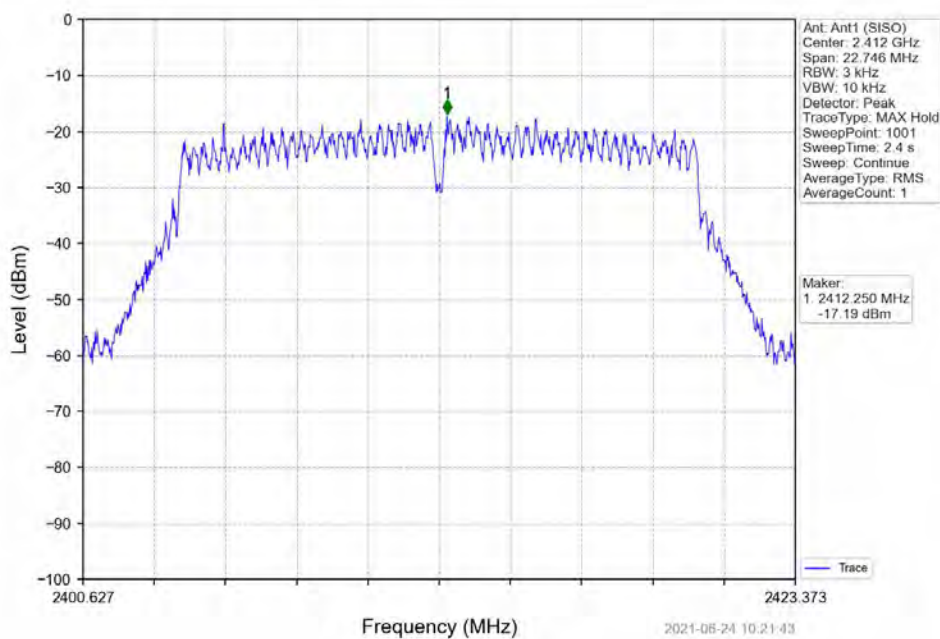
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



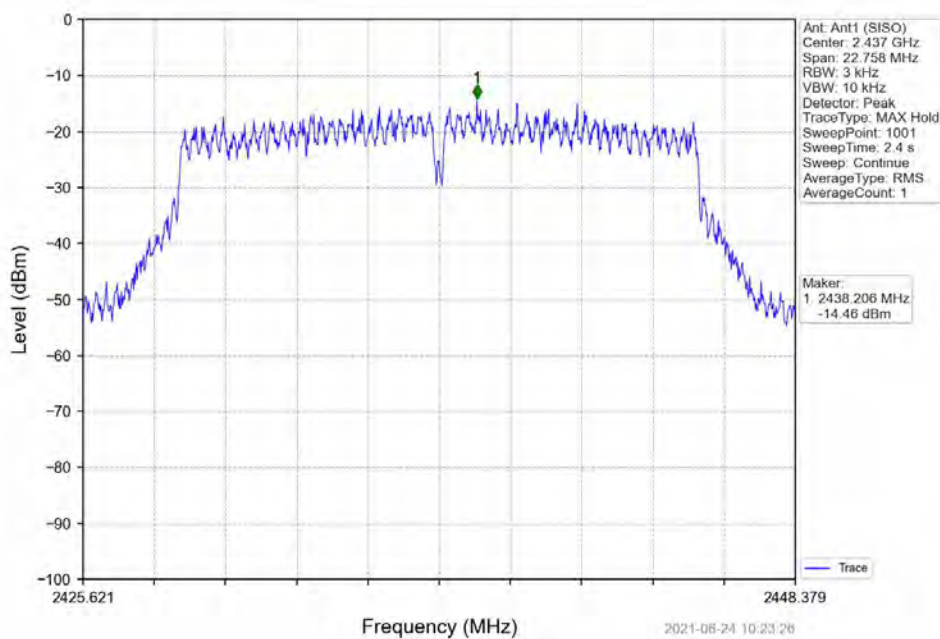
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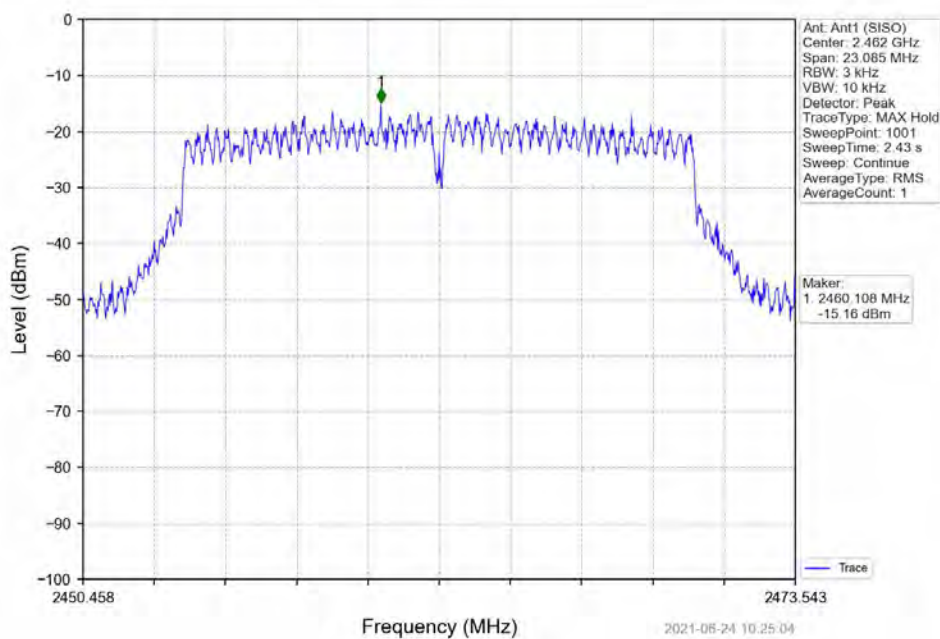
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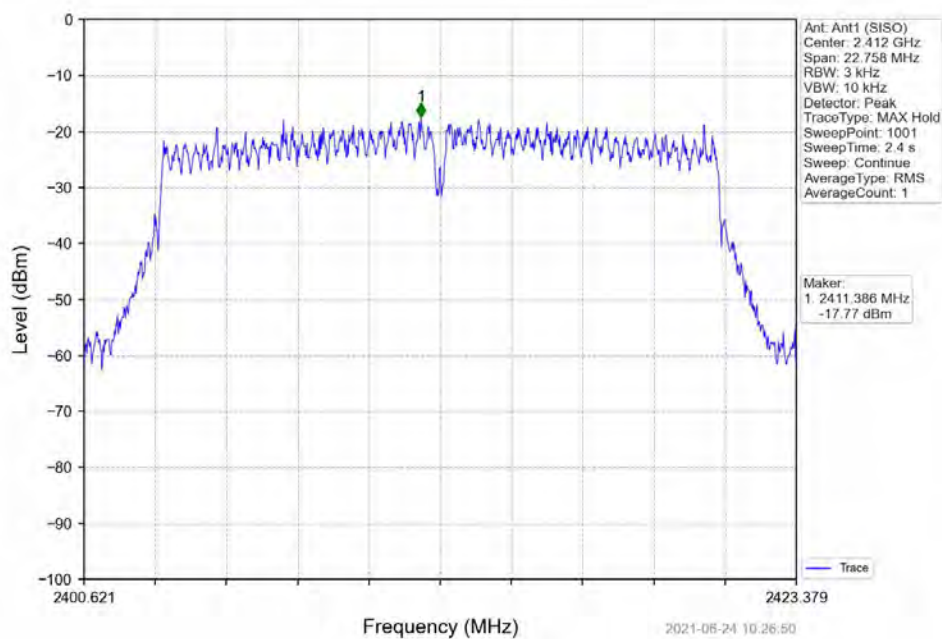
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



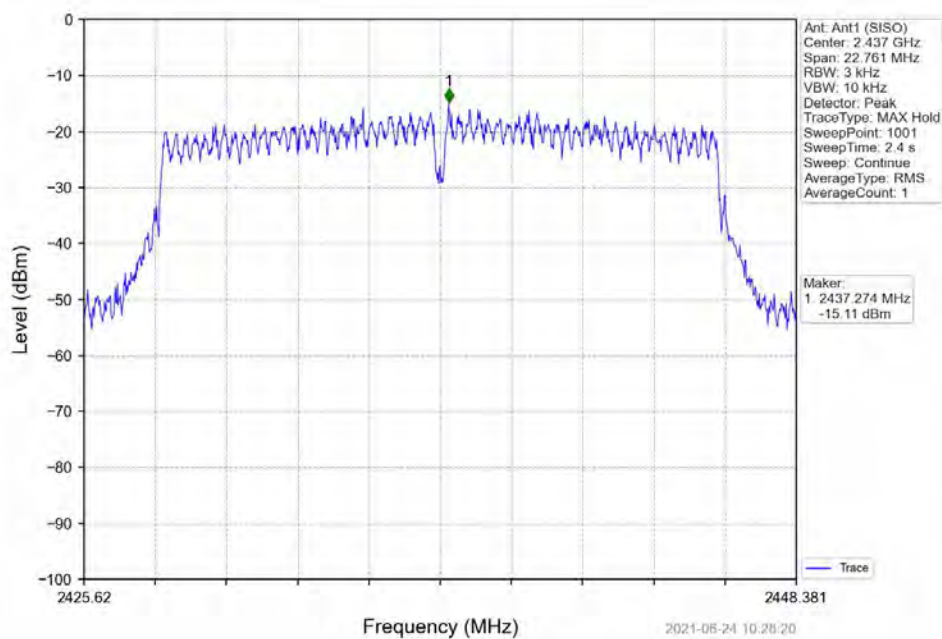
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

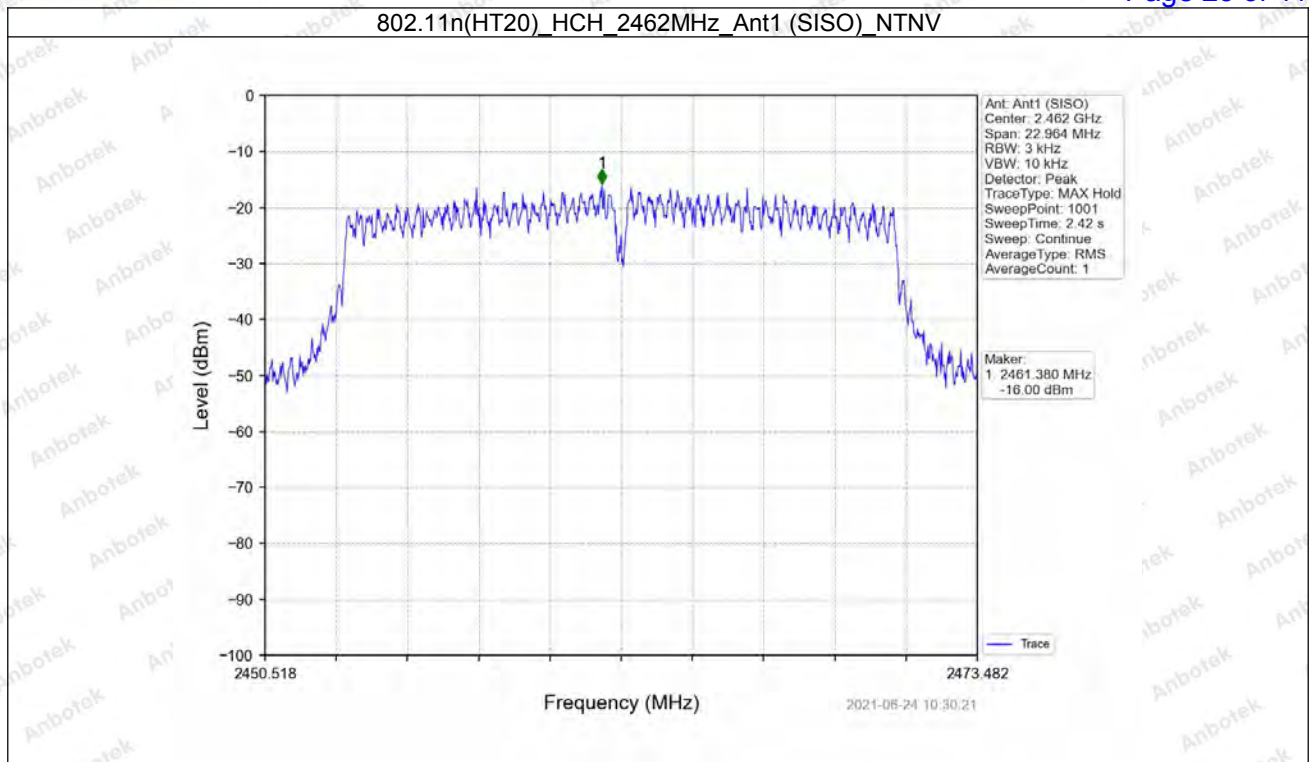


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

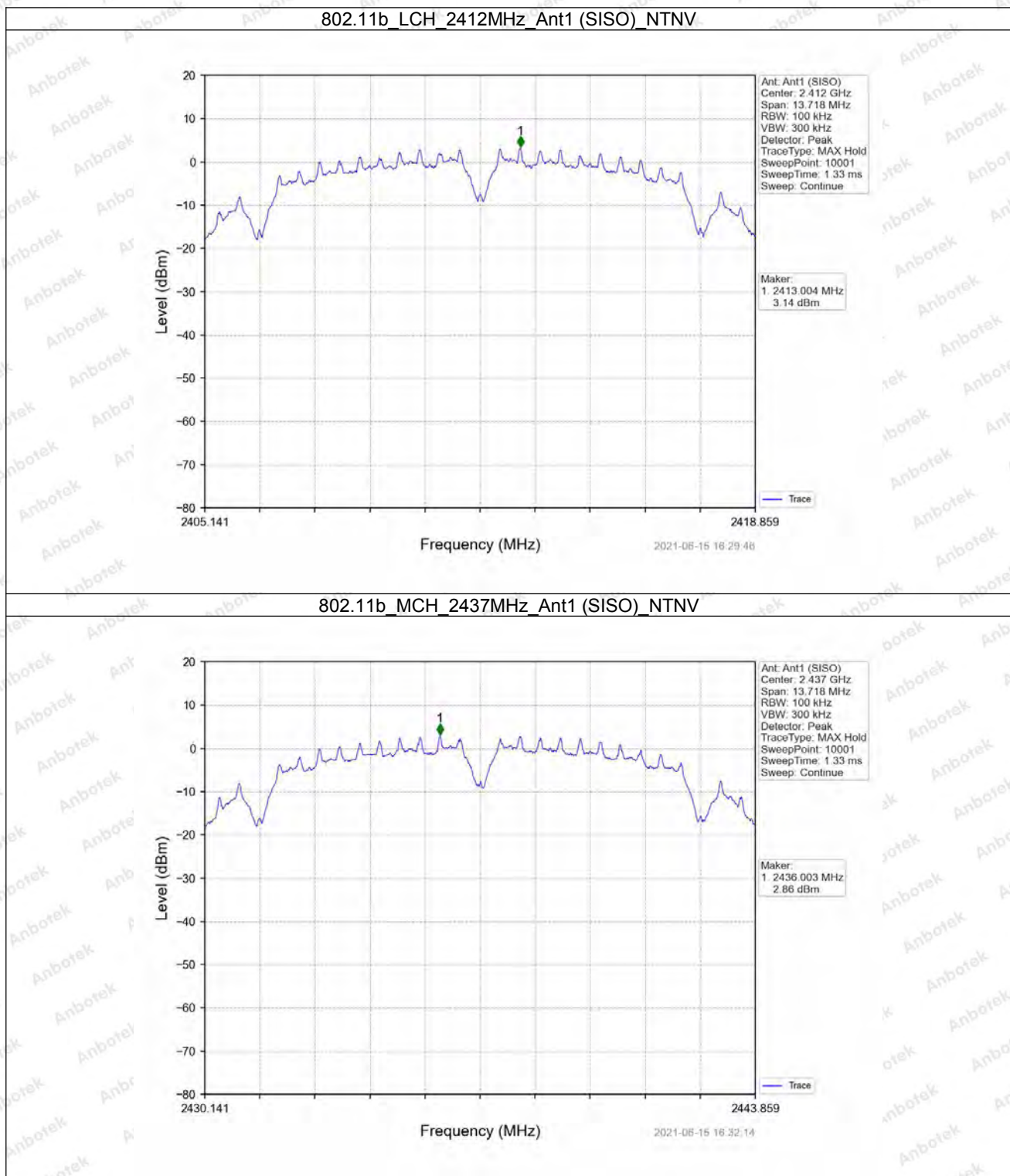
5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	3.14	/	/
		2437	/	/	1	2.86	/	/
		2462	/	/	1	2.07	/	/
802.11g	SISO	2412	/	/	1	-1.51	/	/
		2437	/	/	1	0.04	/	/
		2462	/	/	1	-0.60	/	/
802.11n (HT20)	SISO	2412	/	/	1	-3.01	/	/
		2437	/	/	1	0.14	/	/
		2462	/	/	1	-1.62	/	/

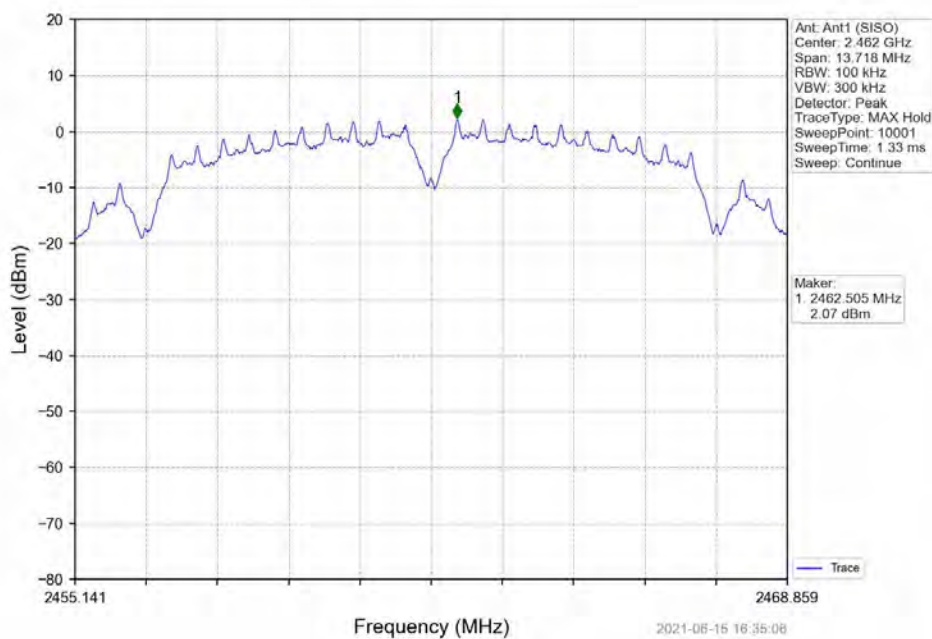
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

Note2: Only for Report Use

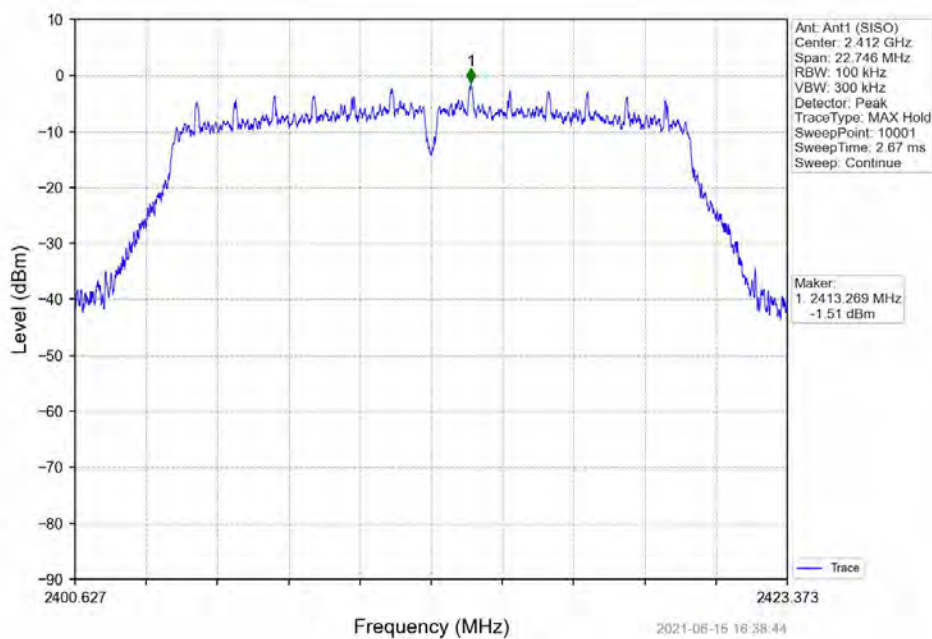
5.1.2 Test Graph



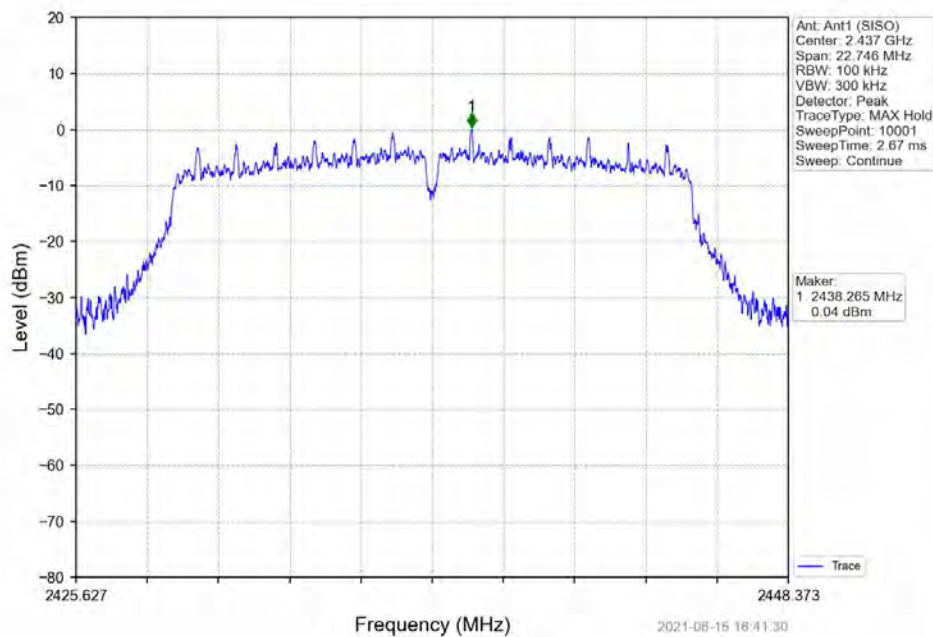
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



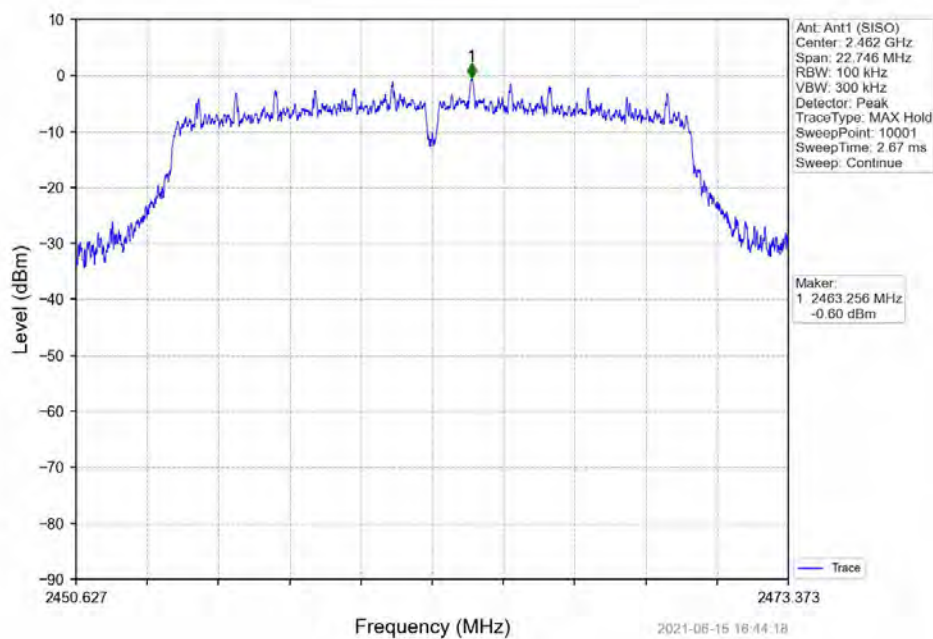
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



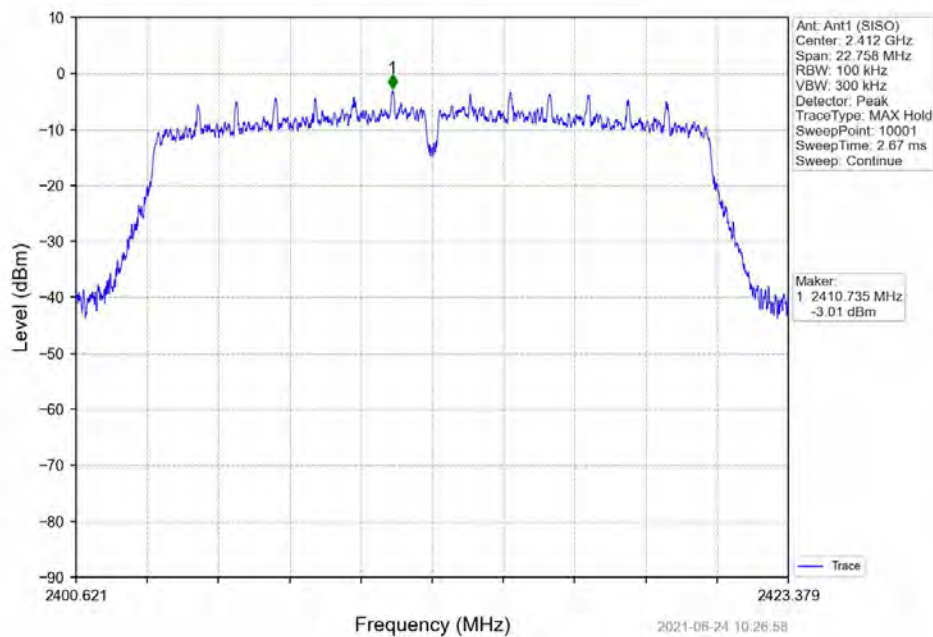
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



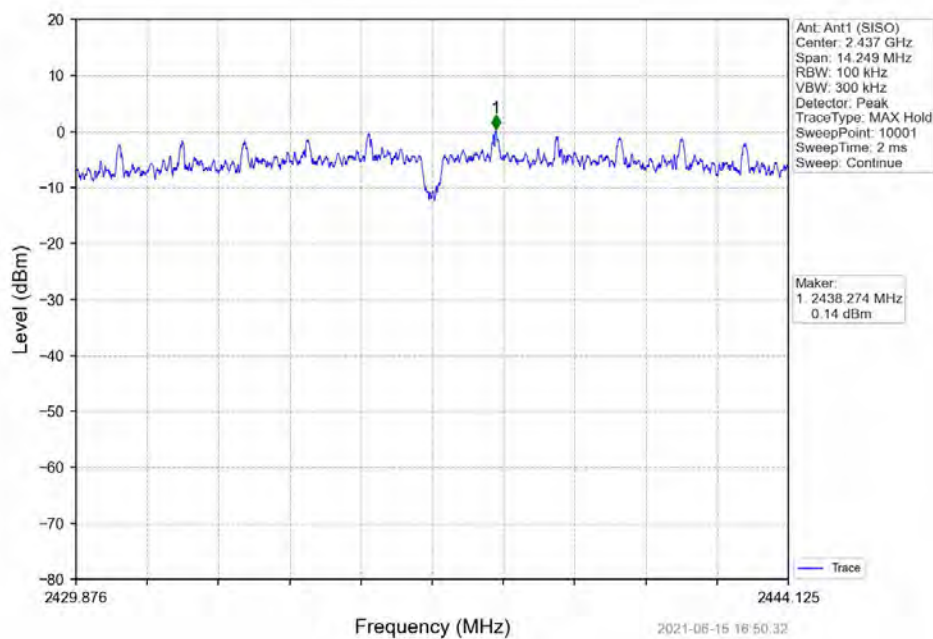
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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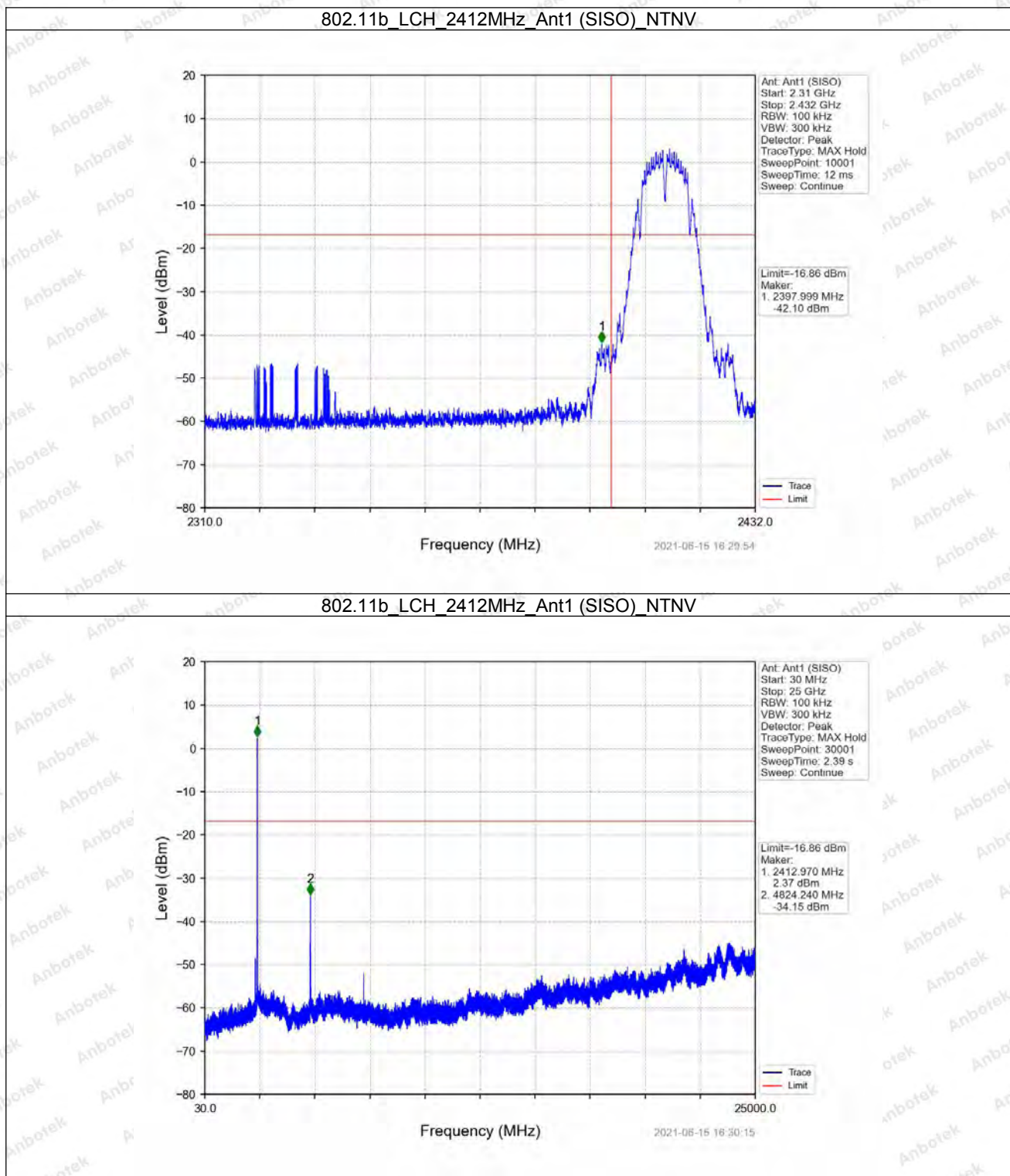
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5.2 CSE

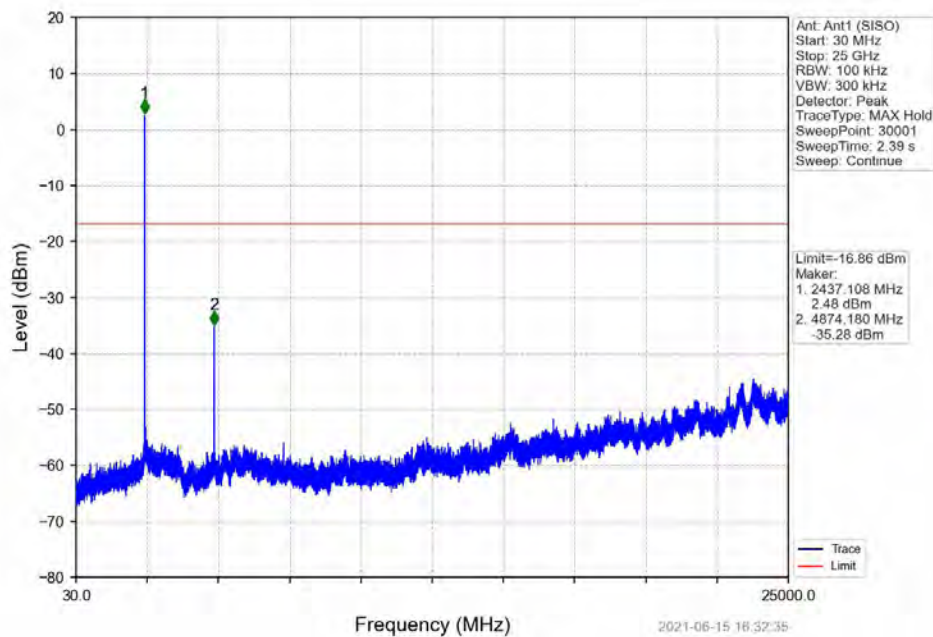
5.2.1 Test Result

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								

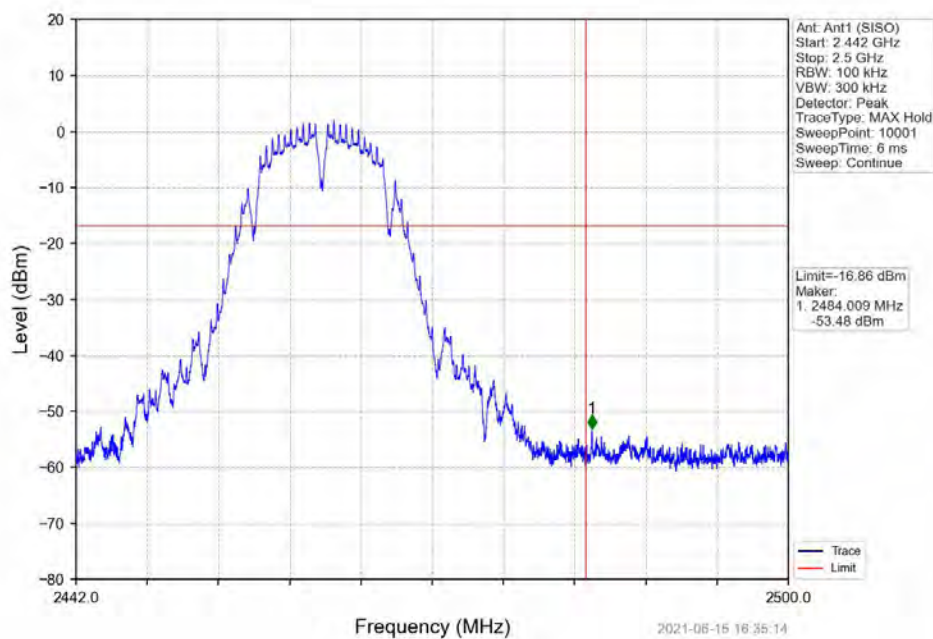
5.2.2 Test Graph



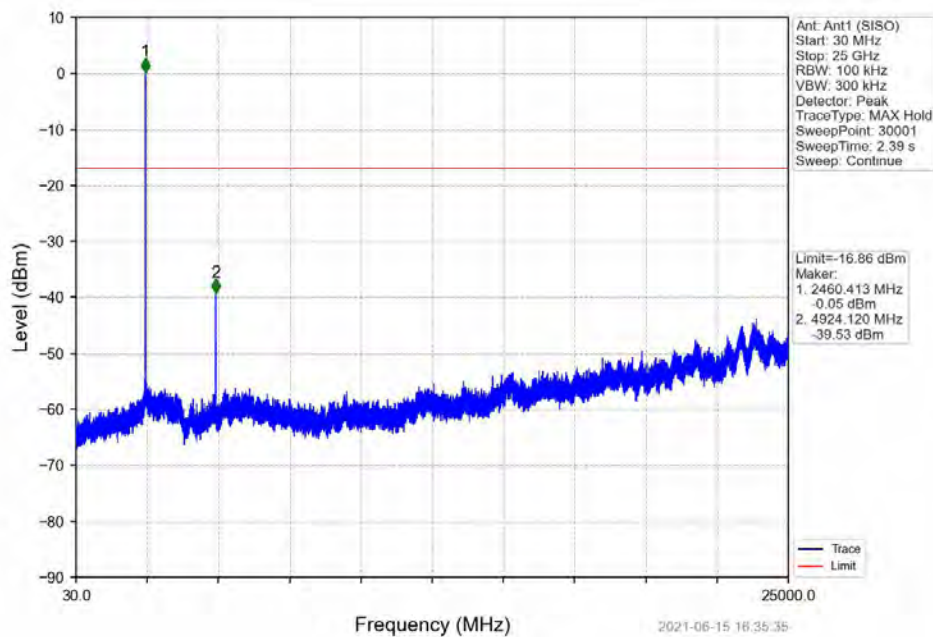
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



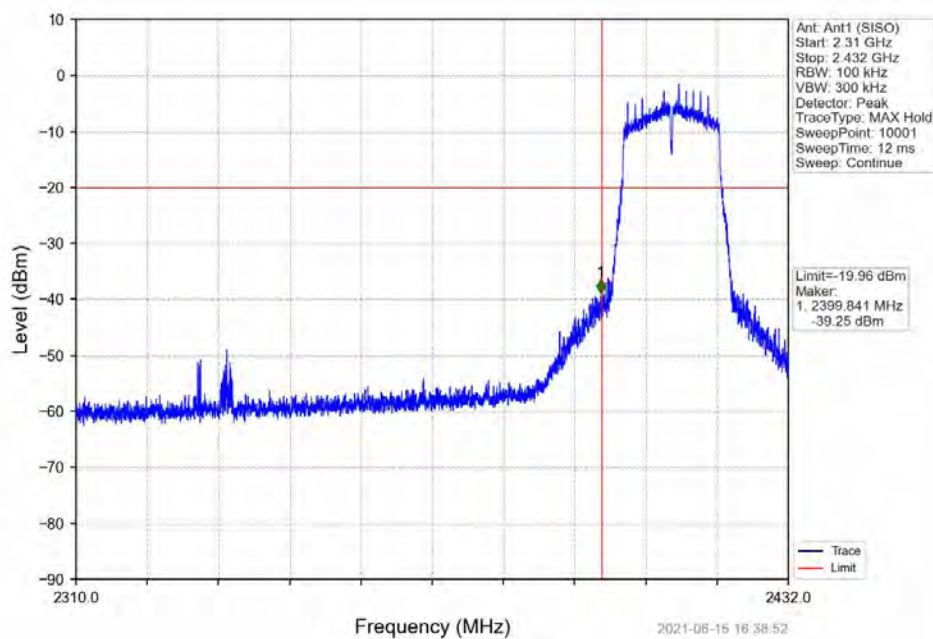
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



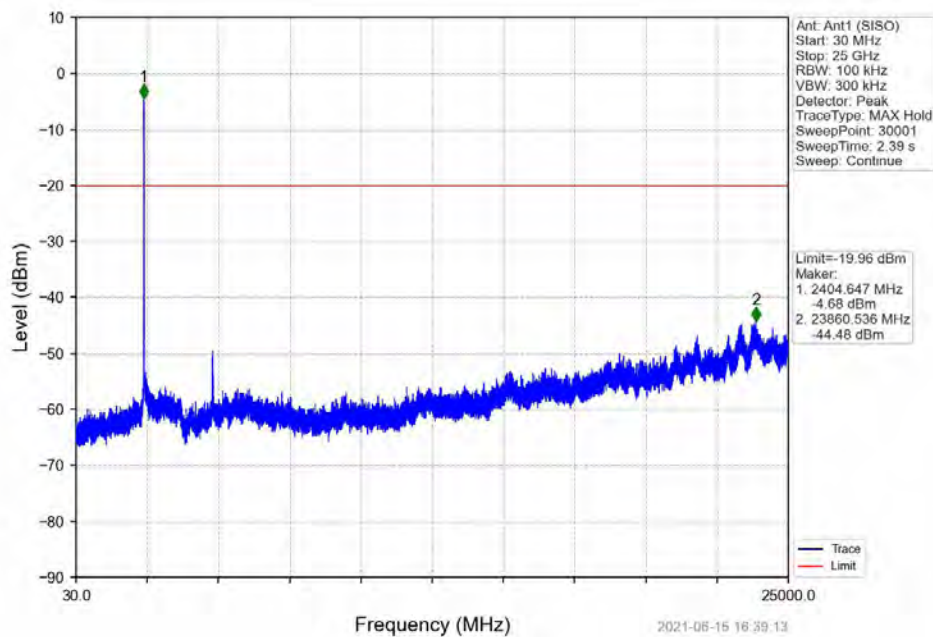
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



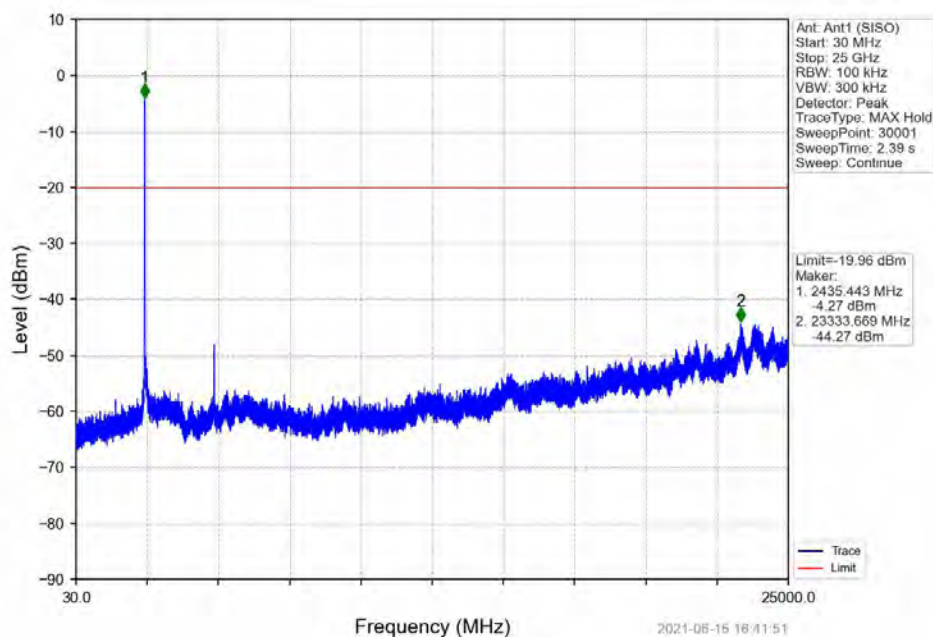
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



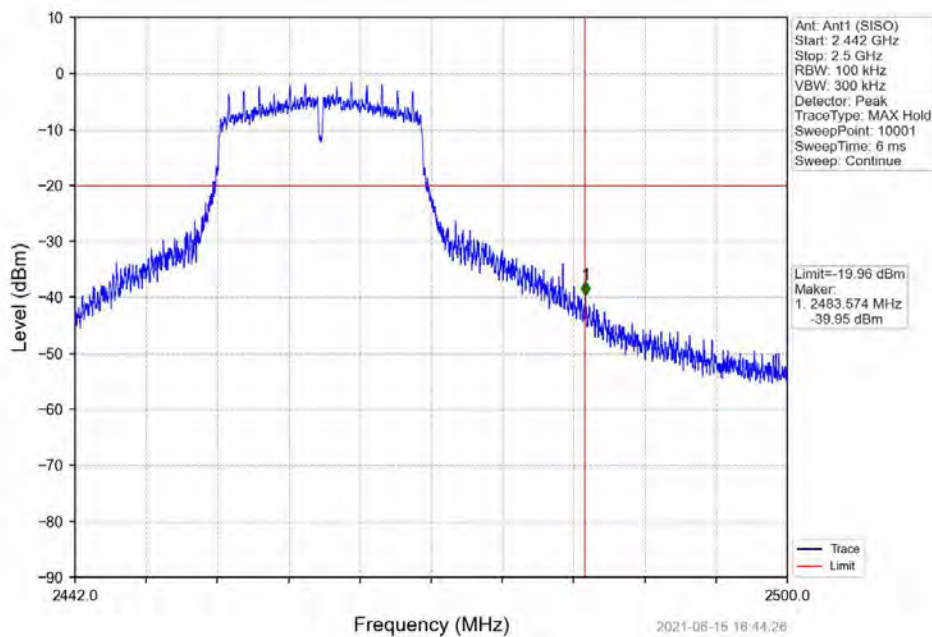
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



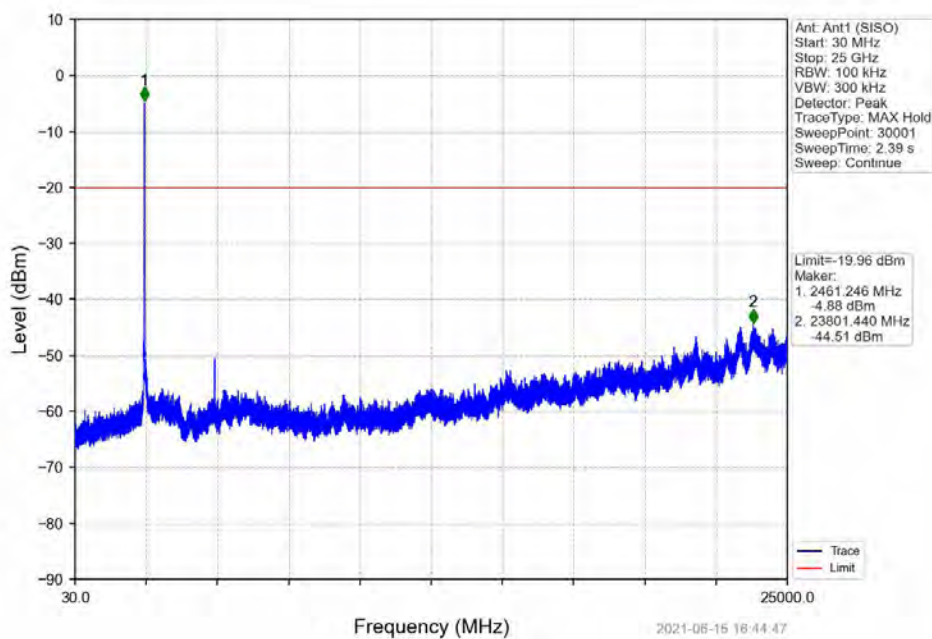
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



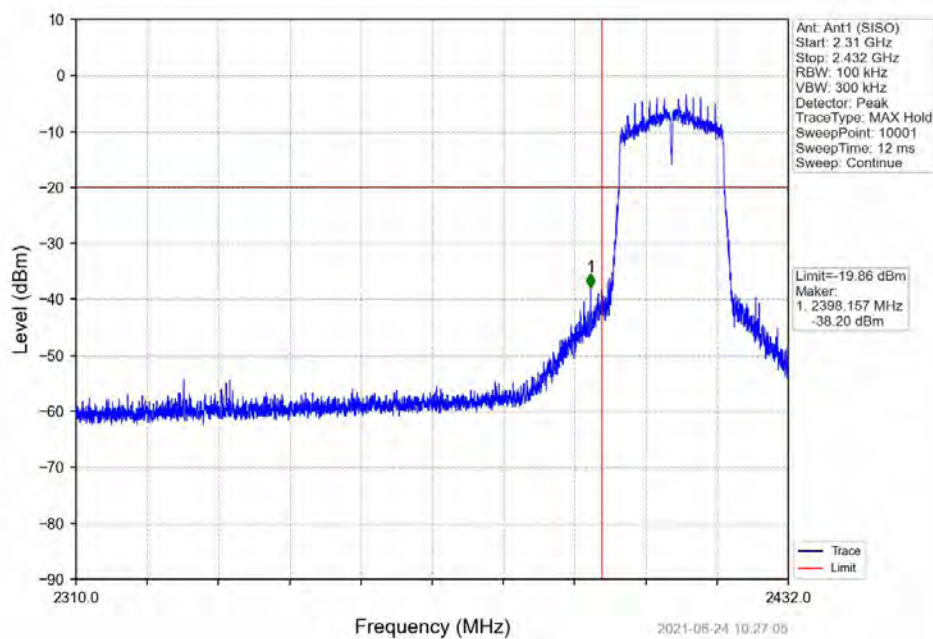
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



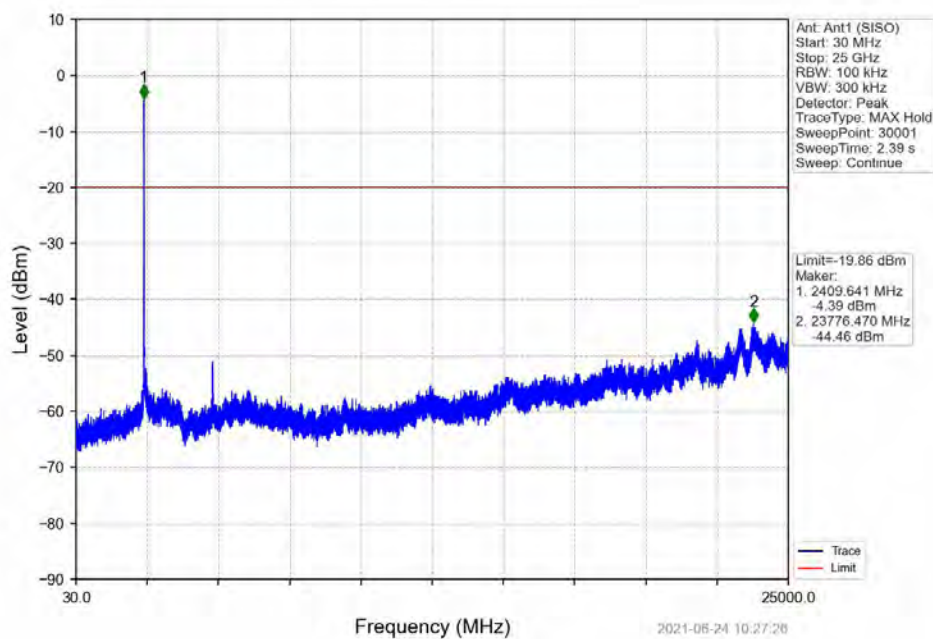
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



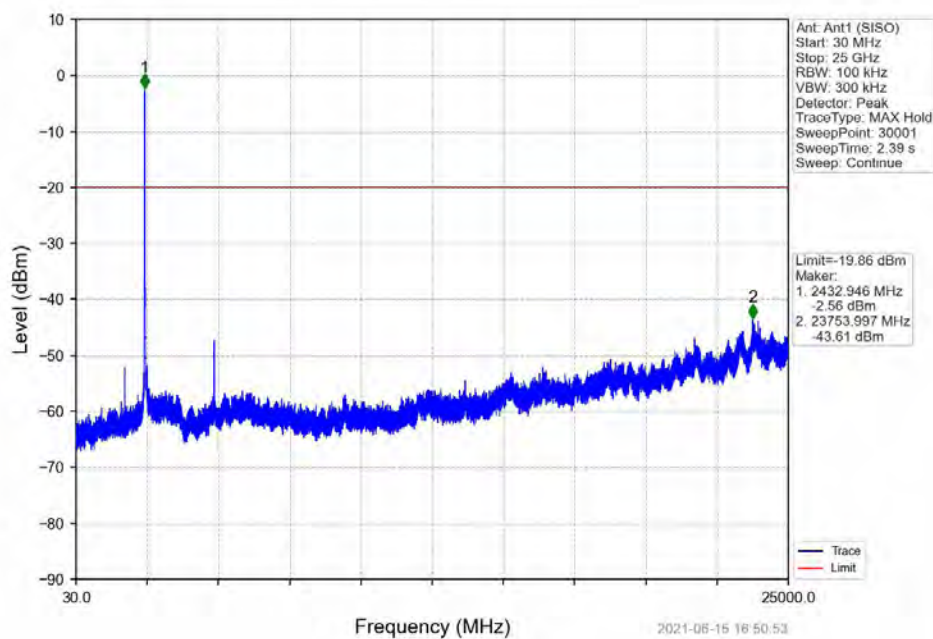
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



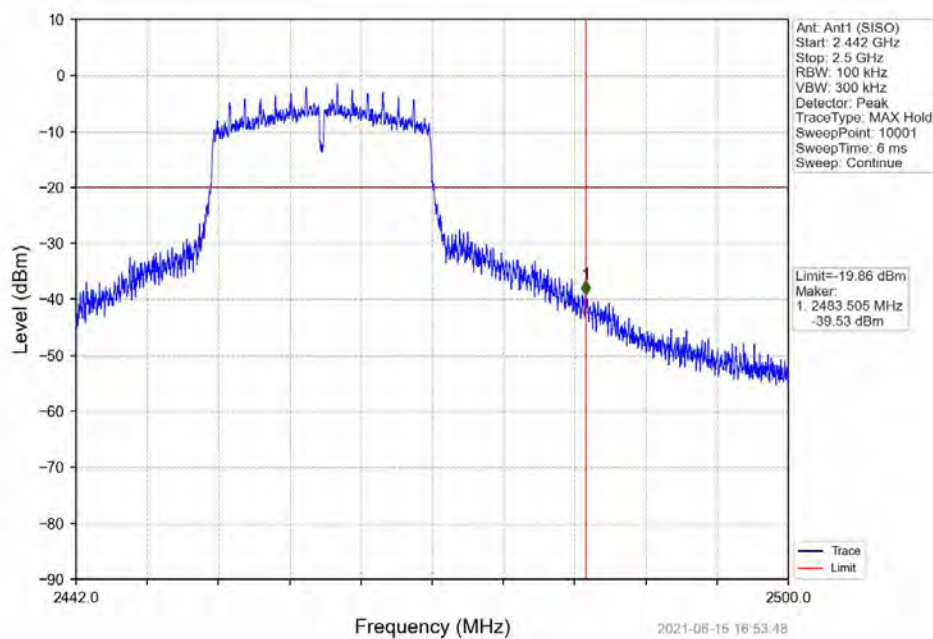
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

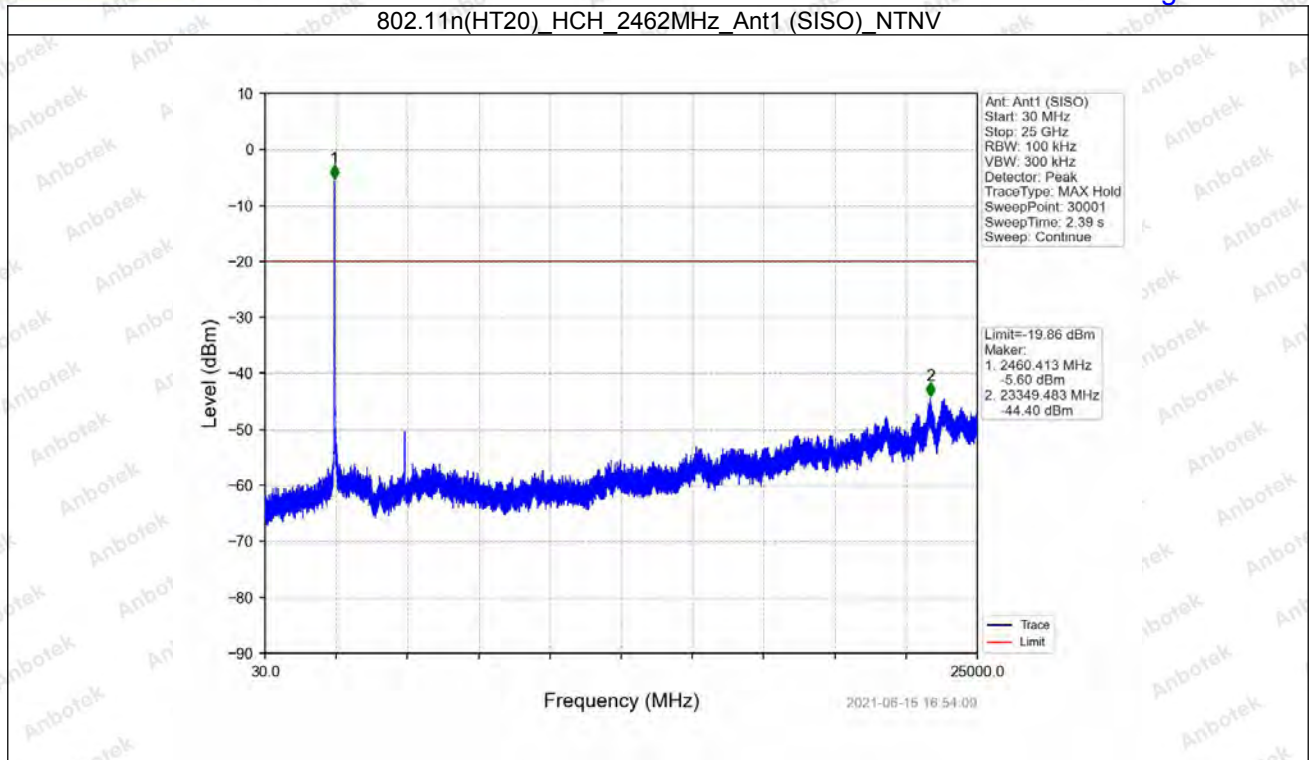


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV





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6. Frequency Error

6.1 Ant1

6.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit	Verdict
802.11b	SISO	2412	/	/	20	102	2412.040	/	Note1
						120	2412.040	/	Note1
						138	2412.040	/	Note1
					-20	120	2412.020	/	Note1
					50	120	2412.040	/	Note1
		2437	/	/	20	102	2437.020	/	Note1
						120	2437.020	/	Note1
						138	2437.020	/	Note1
					-20	120	2437.000	/	Note1
					50	120	2437.020	/	Note1
		2462	/	/	20	102	2462.020	/	Note1
						120	2462.000	/	Note1
						138	2462.020	/	Note1
					-20	120	2462.020	/	Note1
					50	120	2462.020	/	Note1
802.11g	SISO	2412	/	/	20	102	2412.060	/	Note1
						120	2412.020	/	Note1
						138	2412.040	/	Note1
					-20	120	2412.020	/	Note1
					50	120	2412.060	/	Note1
		2437	/	/	20	102	2437.120	/	Note1
						120	2437.060	/	Note1
						138	2437.040	/	Note1
					-20	120	2437.060	/	Note1
					50	120	2437.040	/	Note1
		2462	/	/	20	102	2462.040	/	Note1
						120	2461.980	/	Note1
						138	2462.060	/	Note1
					-20	120	2462.040	/	Note1
					50	120	2462.020	/	Note1
802.11n (HT20)	SISO	2412	/	/	20	102	2412.140	/	Note1
						120	2412.060	/	Note1
						138	2412.020	/	Note1
					-20	120	2412.040	/	Note1
					50	120	2412.100	/	Note1
		2437	/	/	20	102	2437.080	/	Note1
						120	2437.040	/	Note1
						138	2437.040	/	Note1
					-20	120	2437.060	/	Note1
					50	120	2437.080	/	Note1
		2462	/	/	20	102	2462.060	/	Note1
						120	2462.100	/	Note1
						138	2462.120	/	Note1
					-20	120	2462.080	/	Note1
					50	120	2462.060	/	Note1

Note1: Only for Report Use

---End---

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