

RF Test Data

For

Project No.:	ZKT-260716L0997E-2
Client:	Shenzhen Phiradar Technology Co., Ltd.
Manufacturer:	Shenzhen Phiradar Technology Co., Ltd.
Product Description:	Fish finder
Model Number:	SK1200
Test Engineer:	Jim Liu
Test Date:	2026-07-21

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass

1. Duty Cycle

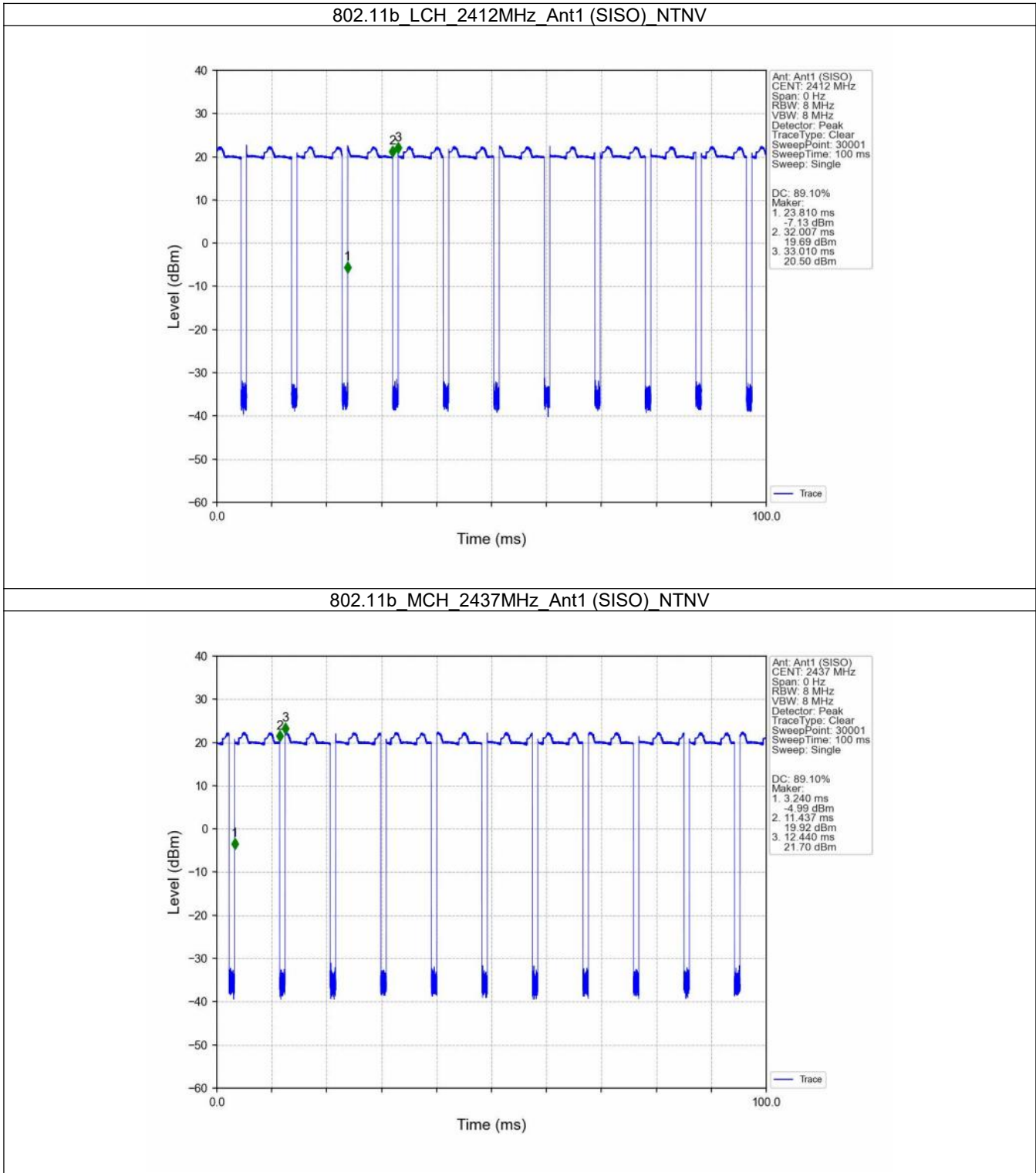
1.1 Test Result

1.1.1 Ant1

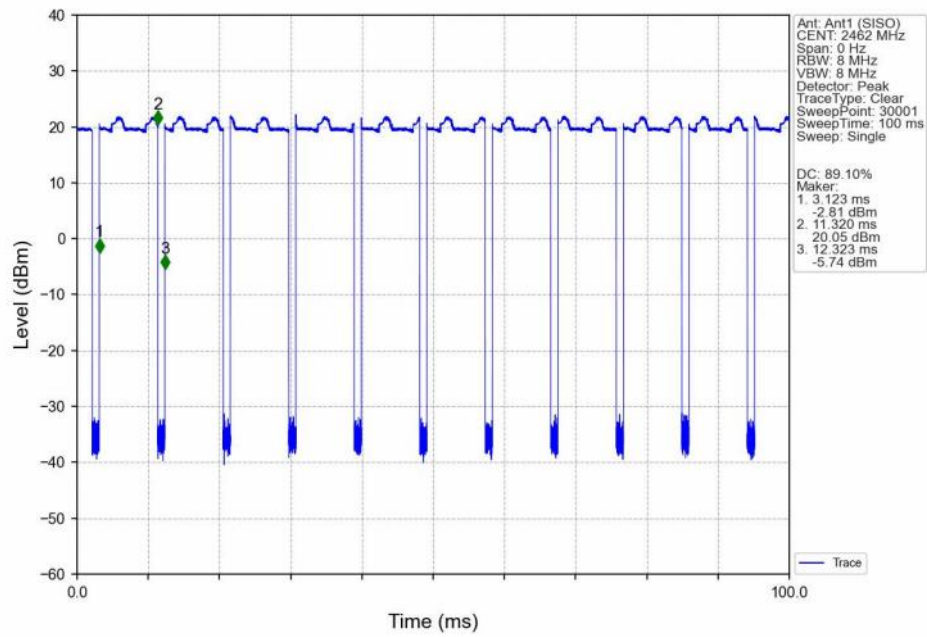
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.197	9.200	89.10	0.50	0.04
		2437	8.197	9.200	89.10	0.50	0.03
		2462	8.197	9.200	89.10	0.50	0.03
802.11g	SISO	2412	1.361	2.364	57.57	2.40	0.03
		2437	1.360	2.363	57.55	2.40	0.03
		2462	1.361	2.363	57.60	2.40	0.03
802.11n (HT20)	SISO	2412	1.273	2.275	55.96	2.52	0.04
		2437	1.273	2.275	55.96	2.52	0.04
		2462	1.273	2.275	55.96	2.52	0.04
802.11n (HT40)	SISO	2422	0.633	1.635	38.72	4.12	0.03
		2437	0.633	1.635	38.72	4.12	0.03
		2452	0.633	1.635	38.72	4.12	0.03

1.2 Test Graph

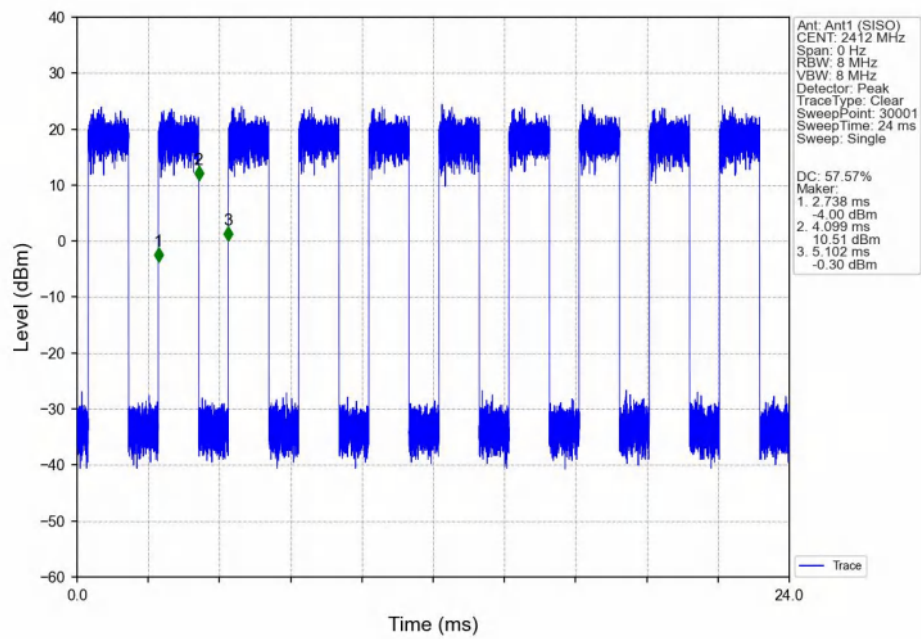
1.2.1 Ant1



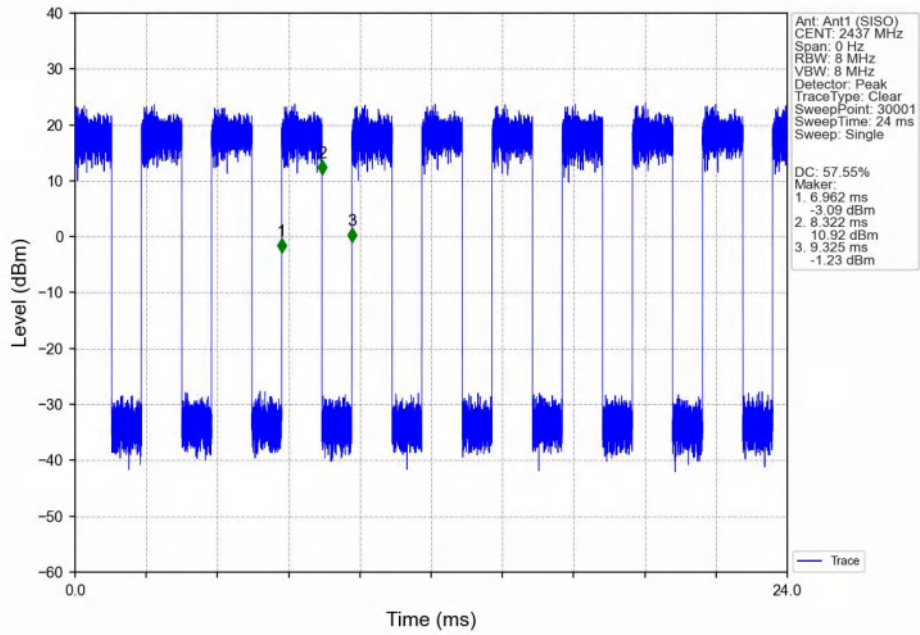
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



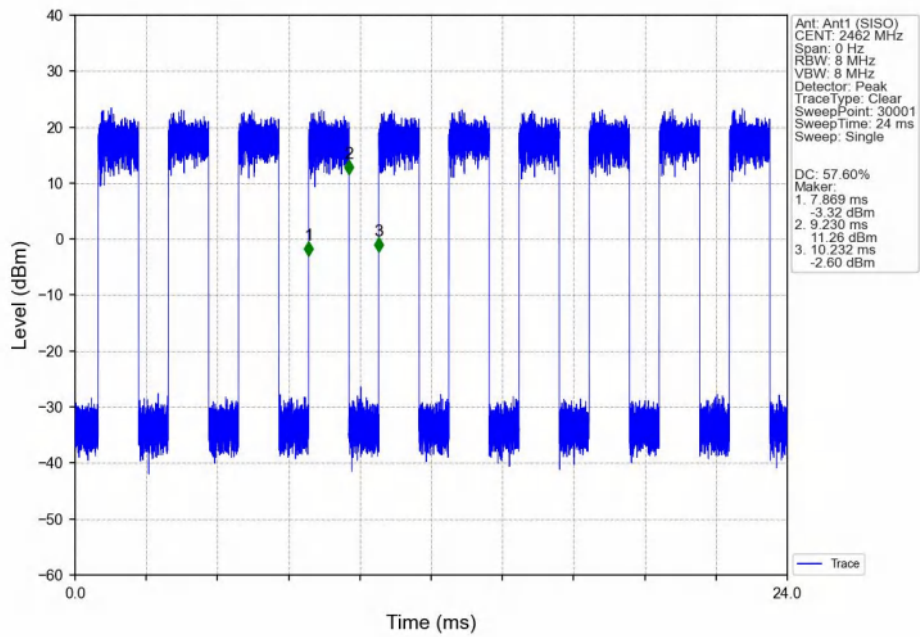
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



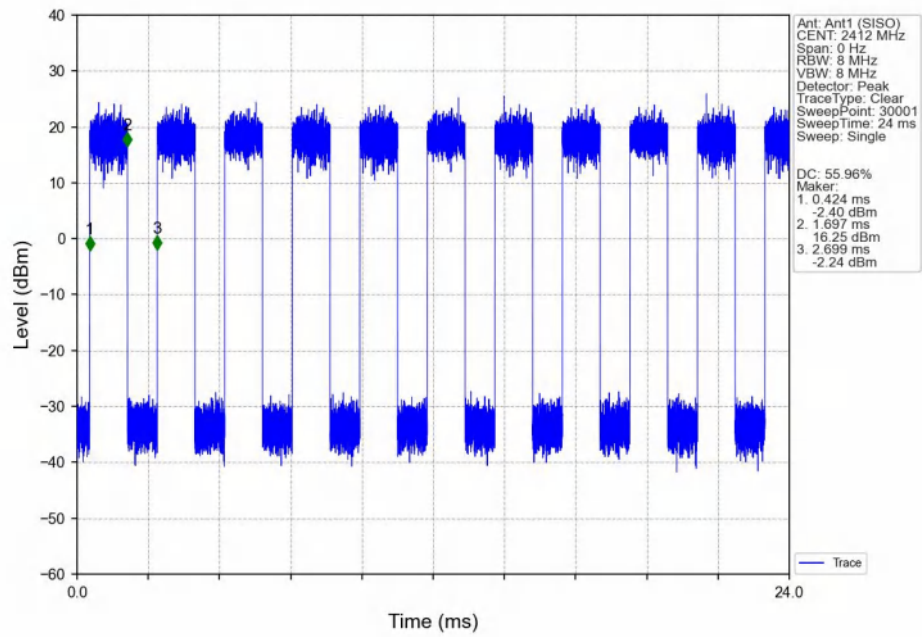
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



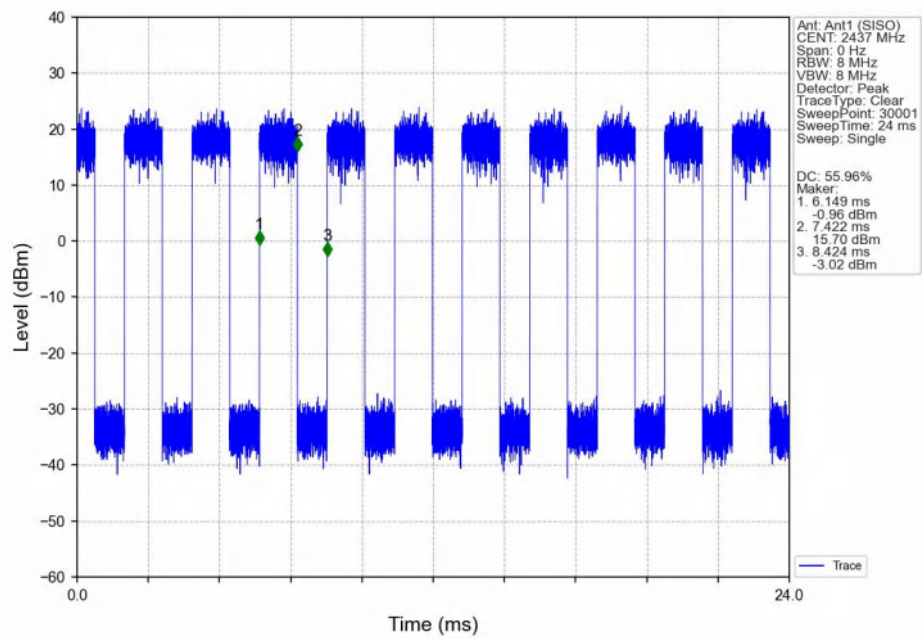
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



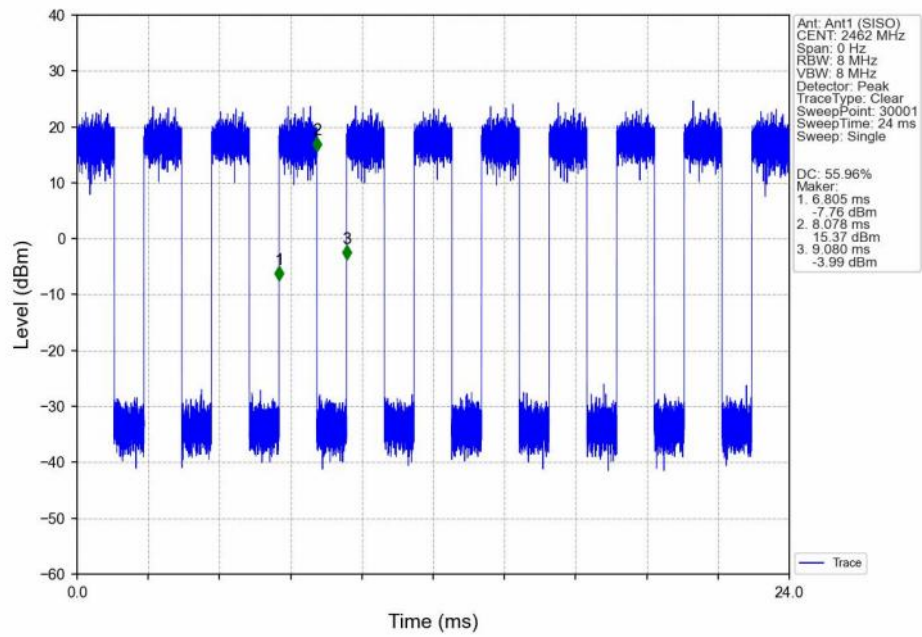
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



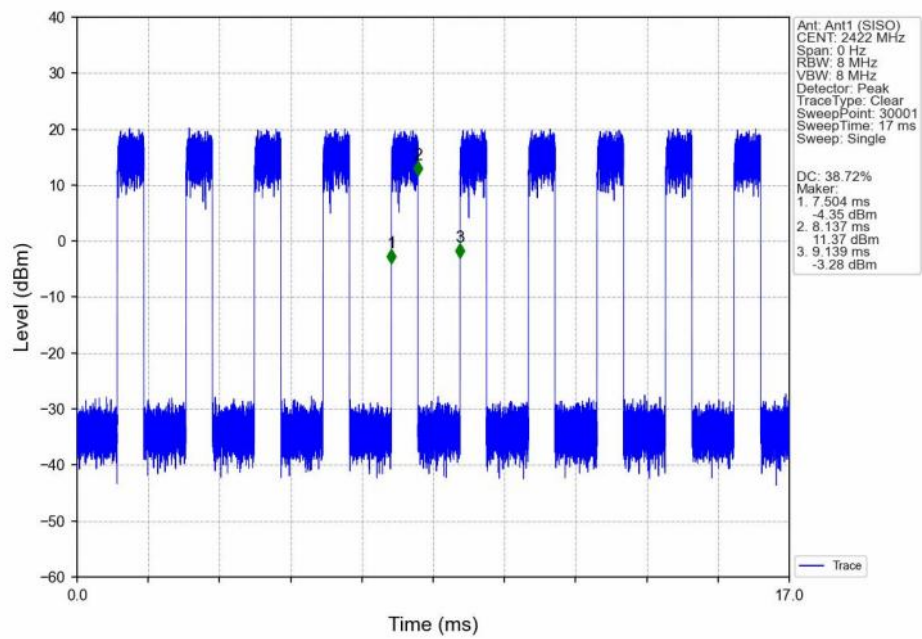
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



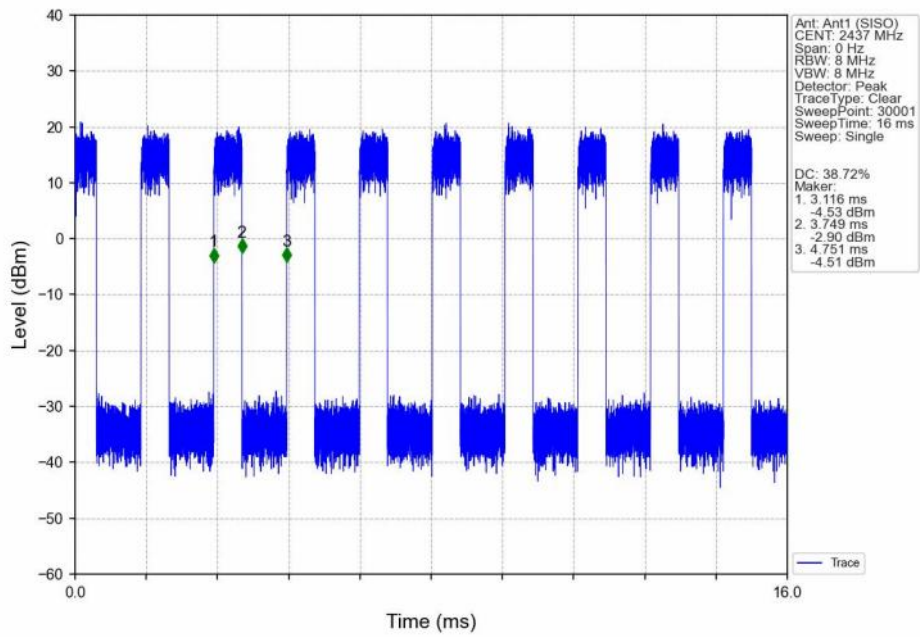
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



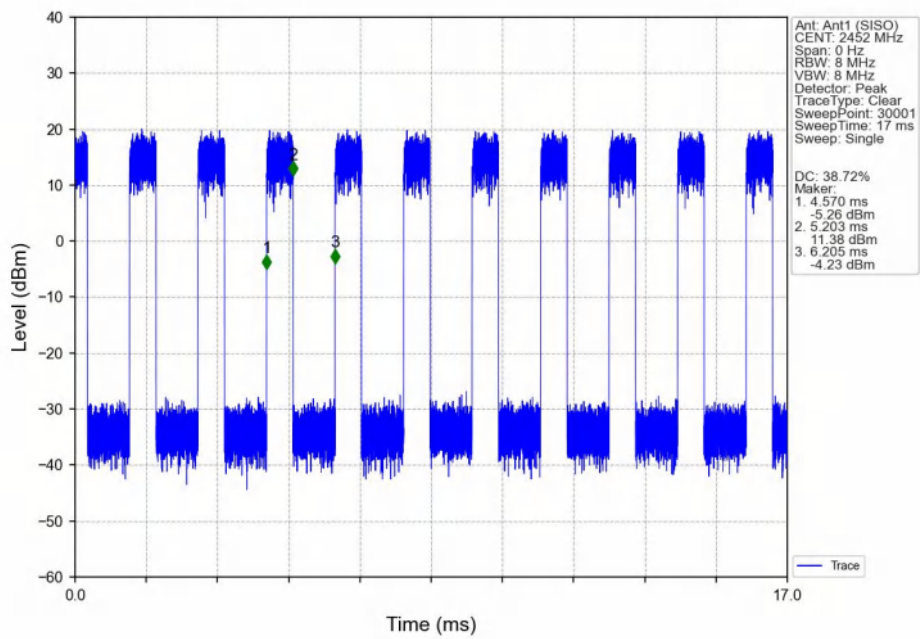
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

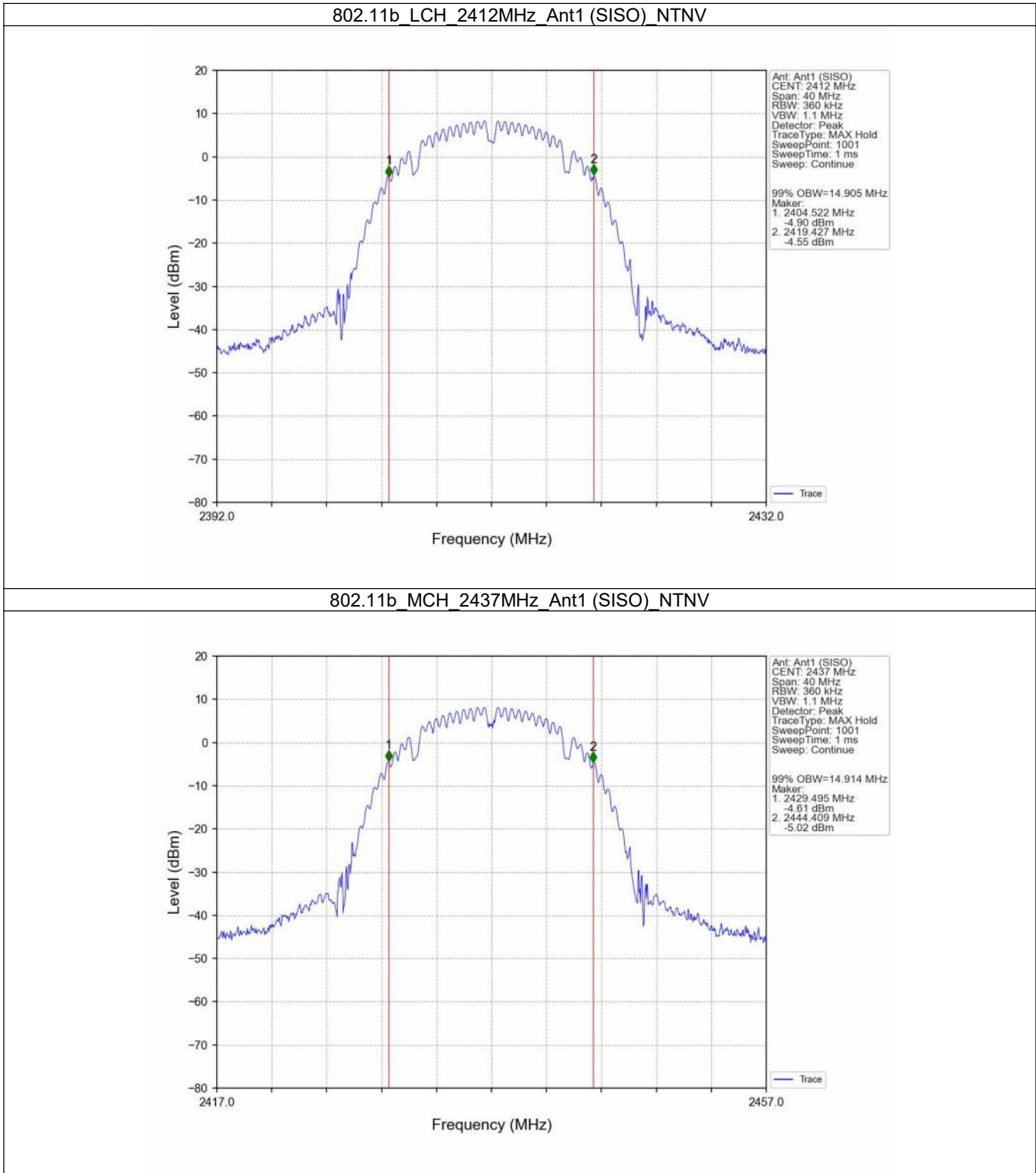
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	14.905	/	Pass
		2437	1	14.914	/	Pass
		2462	1	14.917	/	Pass
802.11g	SISO	2412	1	17.275	/	Pass
		2437	1	17.300	/	Pass
		2462	1	17.317	/	Pass
802.11n (HT20)	SISO	2412	1	18.234	/	Pass
		2437	1	18.230	/	Pass
		2462	1	18.237	/	Pass
802.11n (HT40)	SISO	2422	1	36.813	/	Pass
		2437	1	36.832	/	Pass
		2452	1	36.782	/	Pass

2.1.2 6dB BW

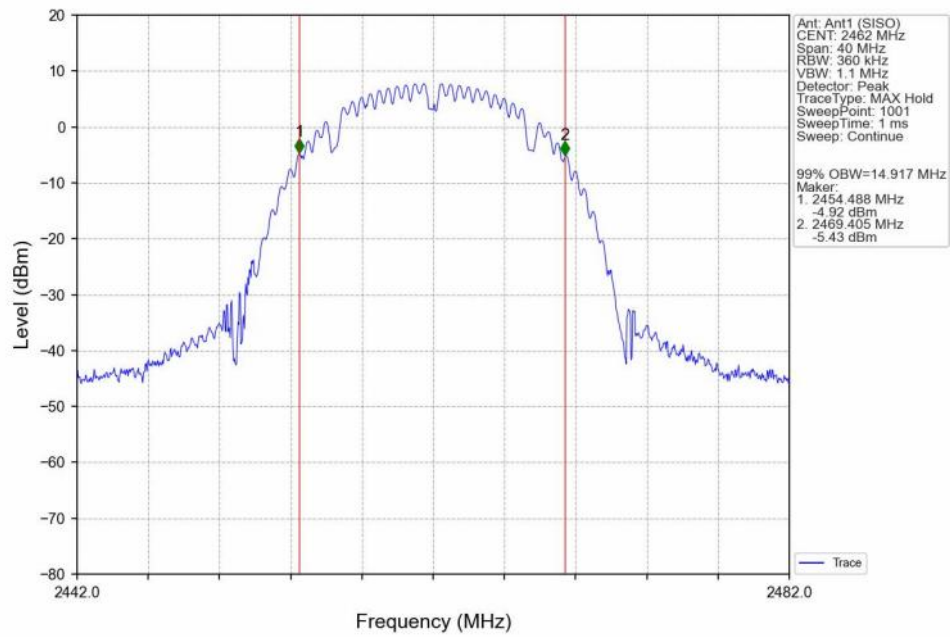
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	10.302	≥ 0.5	Pass
		2437	1	10.301	≥ 0.5	Pass
		2462	1	10.307	≥ 0.5	Pass
802.11g	SISO	2412	1	16.484	≥ 0.5	Pass
		2437	1	16.529	≥ 0.5	Pass
		2462	1	16.566	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.533	≥ 0.5	Pass
		2437	1	17.623	≥ 0.5	Pass
		2462	1	17.543	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	35.915	≥ 0.5	Pass
		2437	1	35.975	≥ 0.5	Pass
		2452	1	36.027	≥ 0.5	Pass

2.2 Test Graph

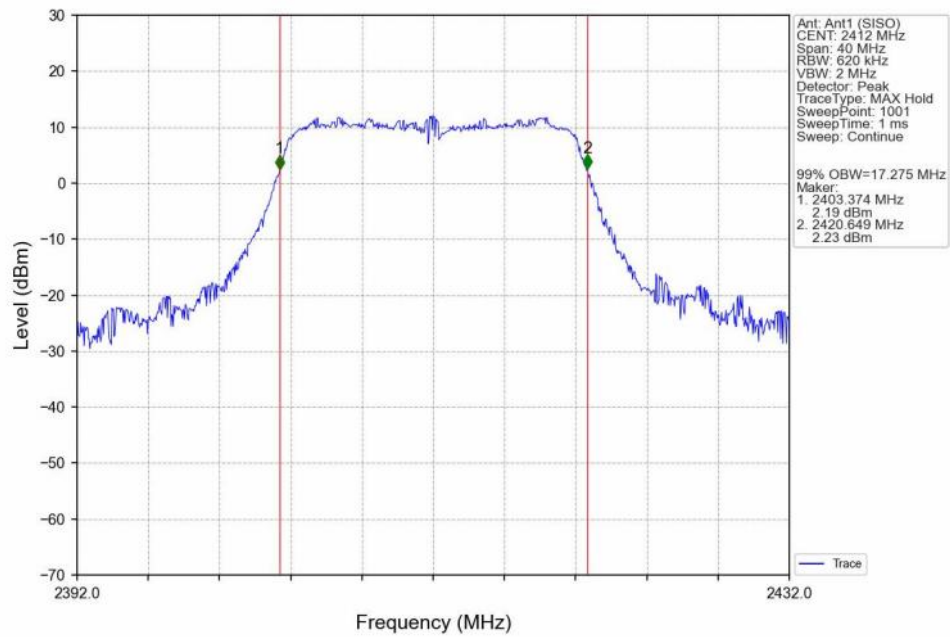
2.2.1 OBW



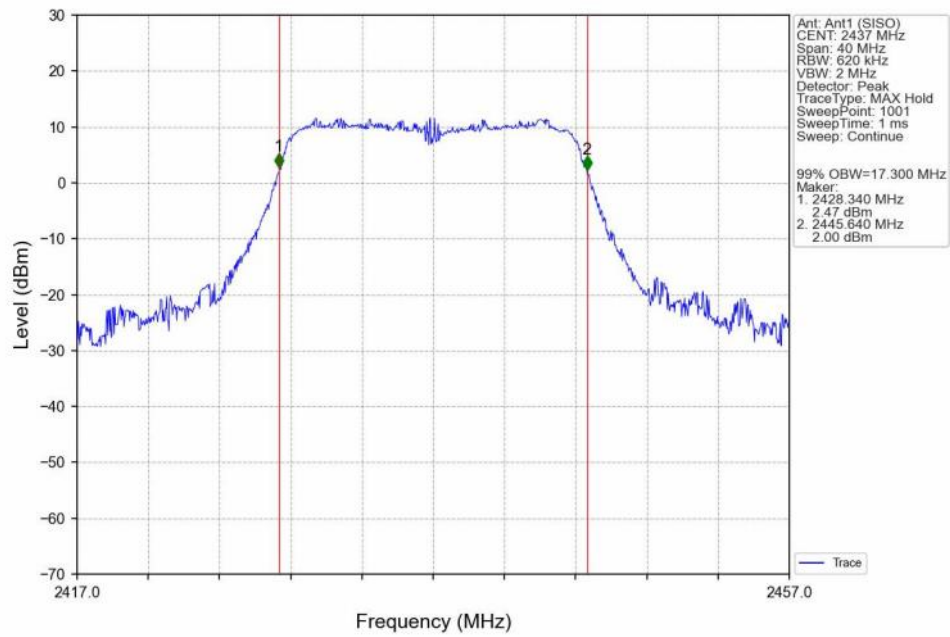
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



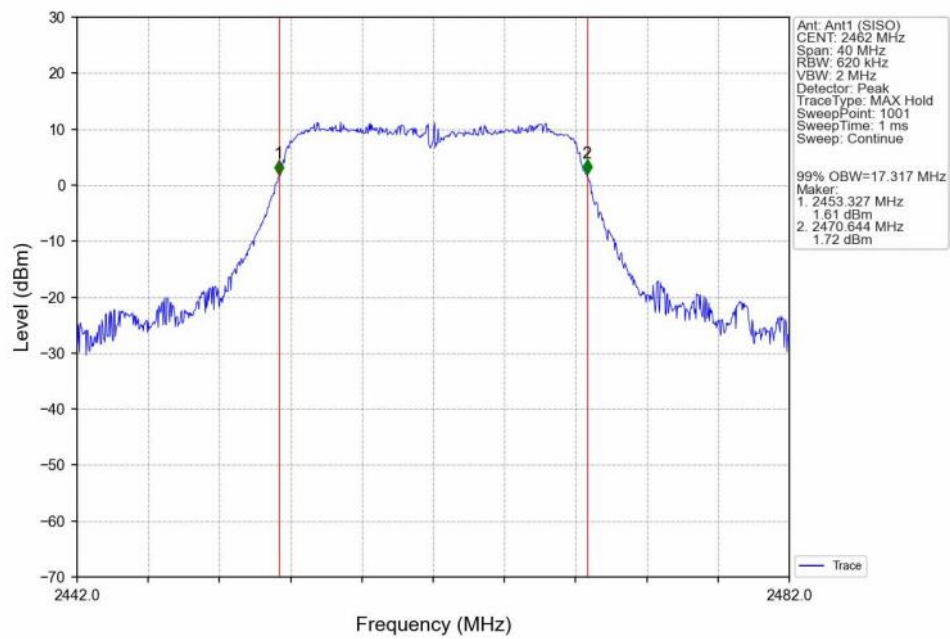
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



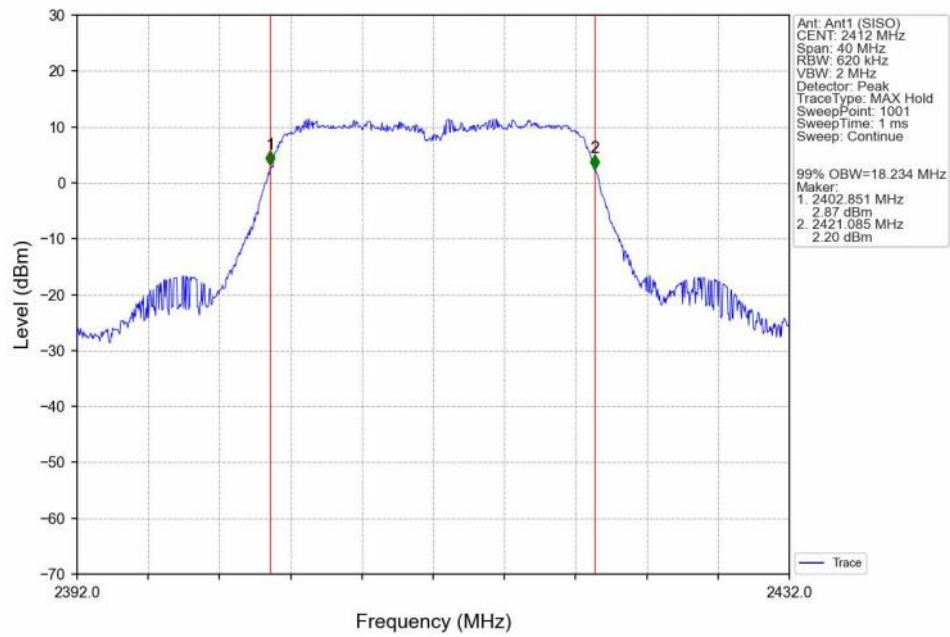
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



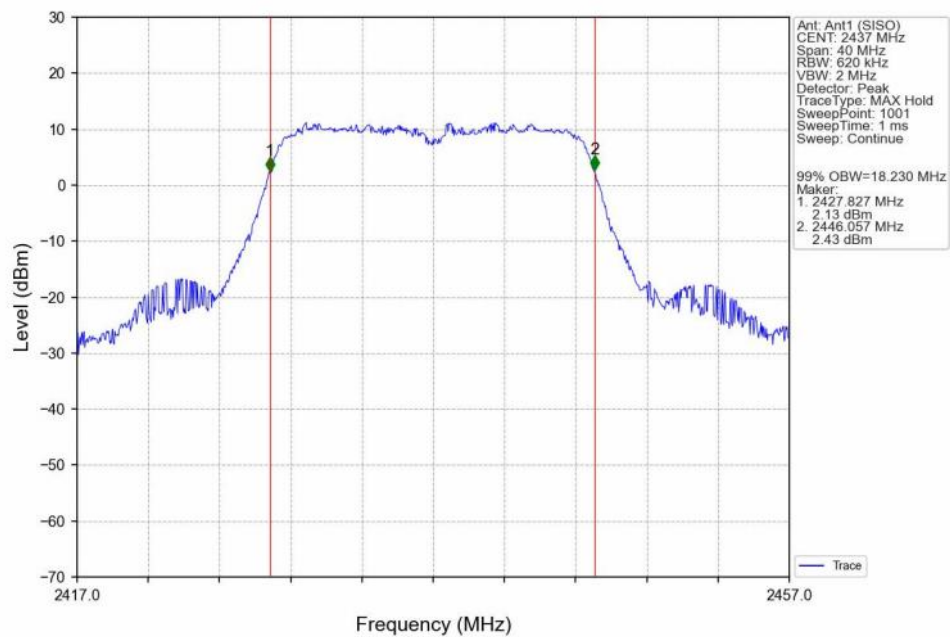
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



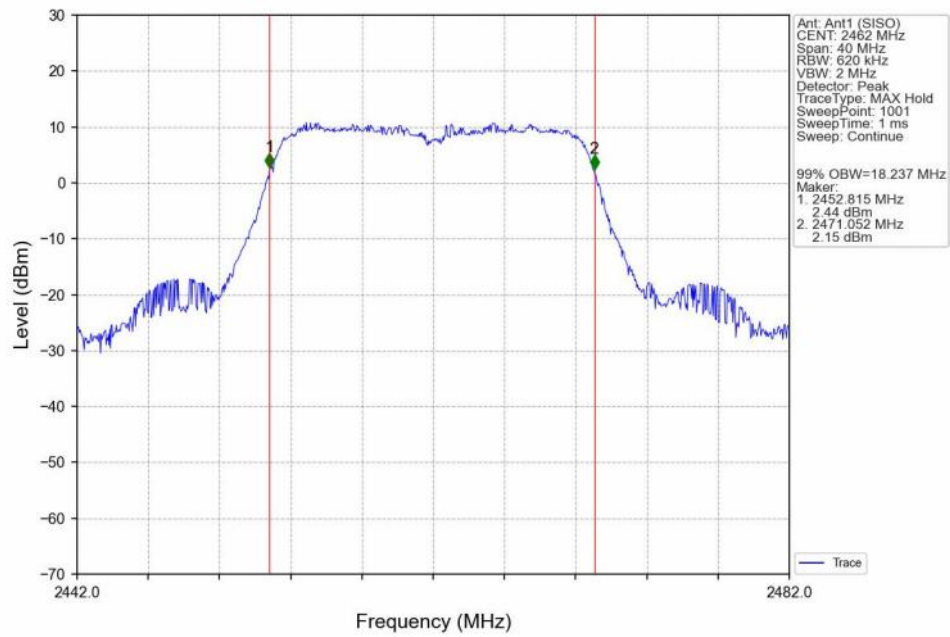
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



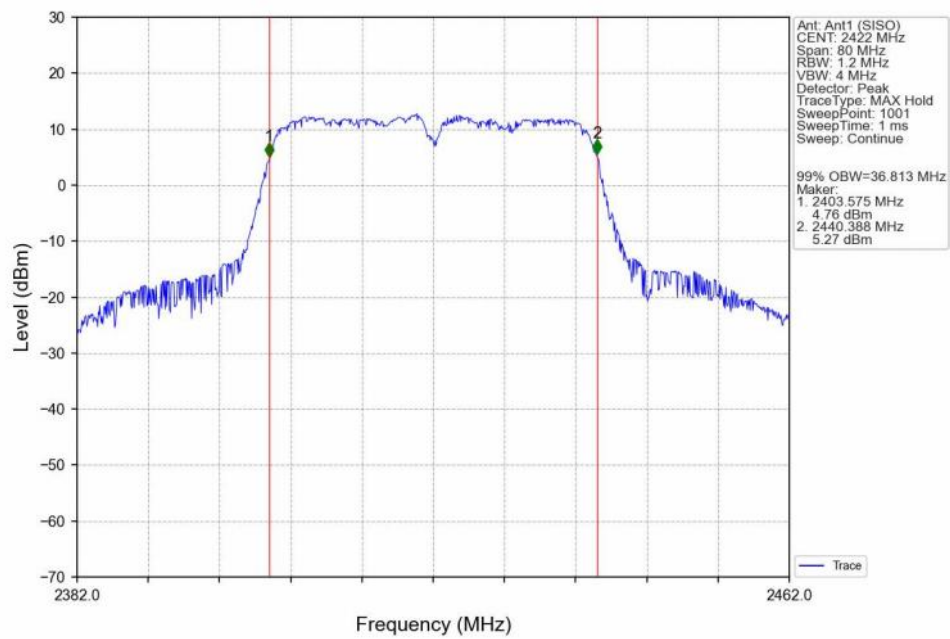
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



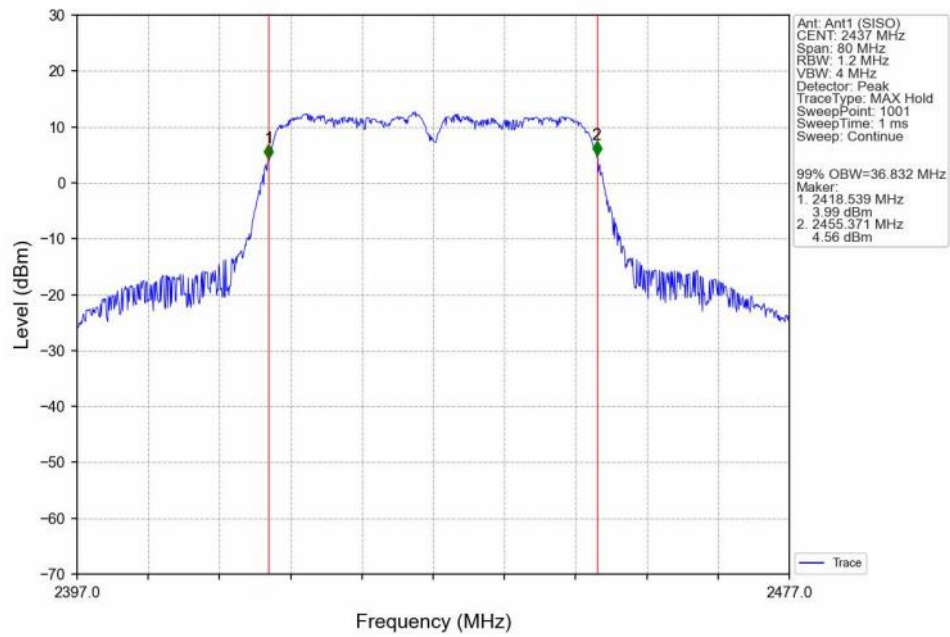
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



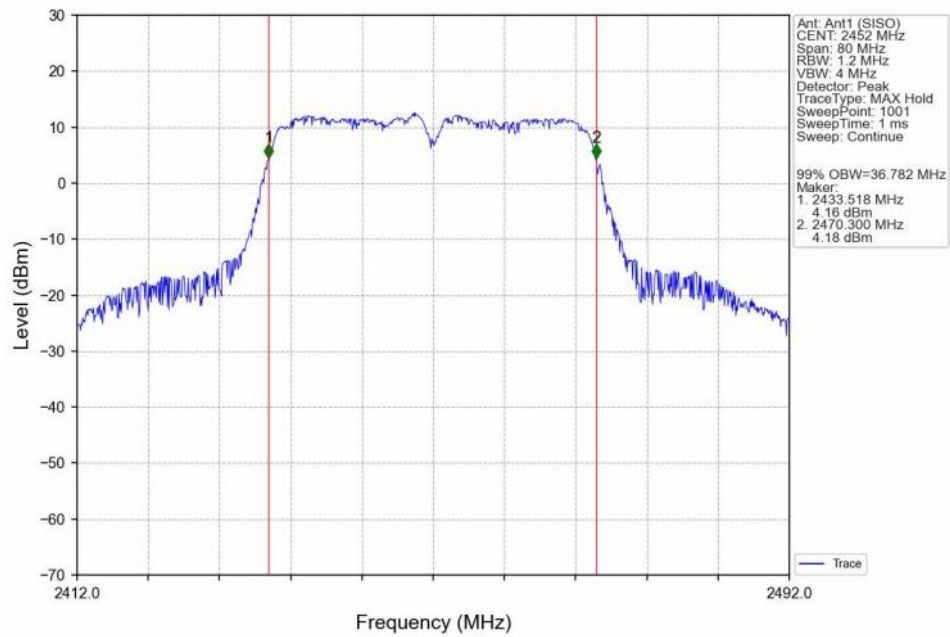
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

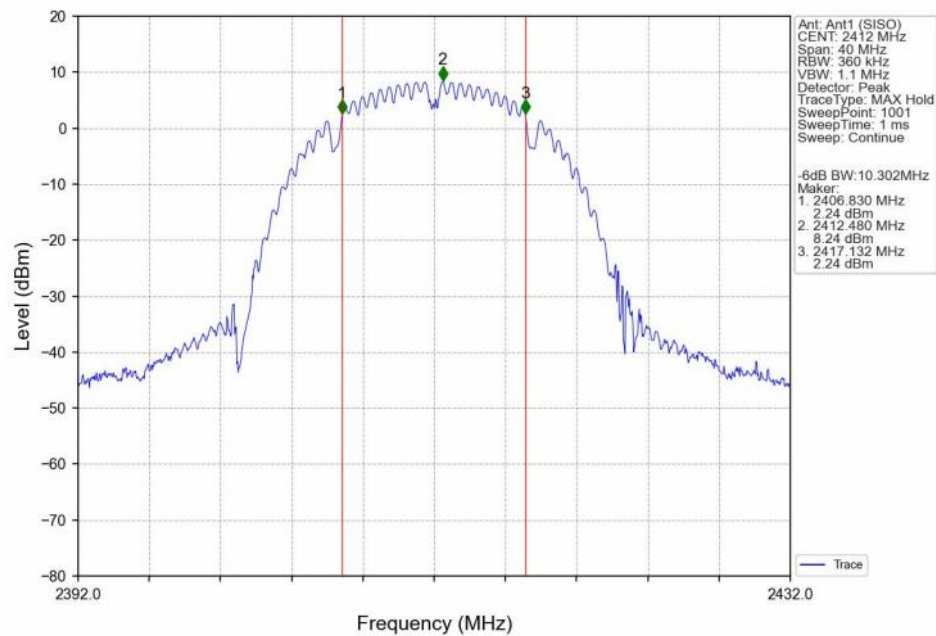


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

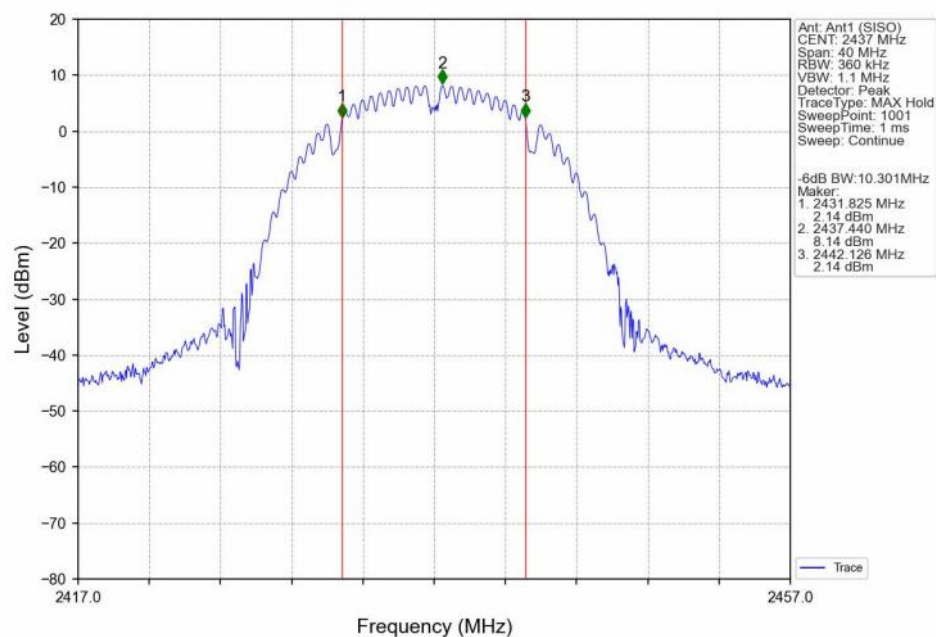


2.2.2 6dB BW

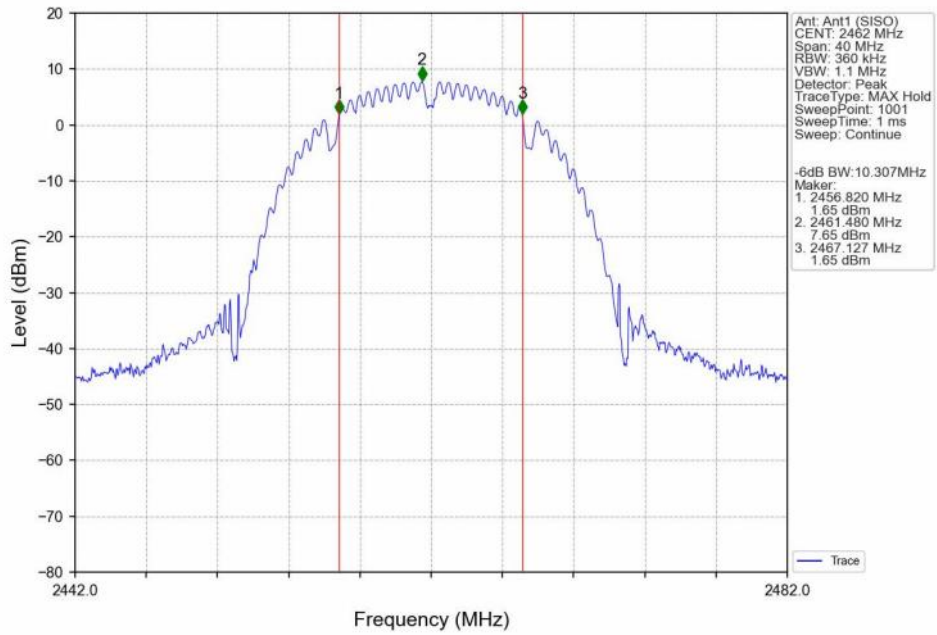
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



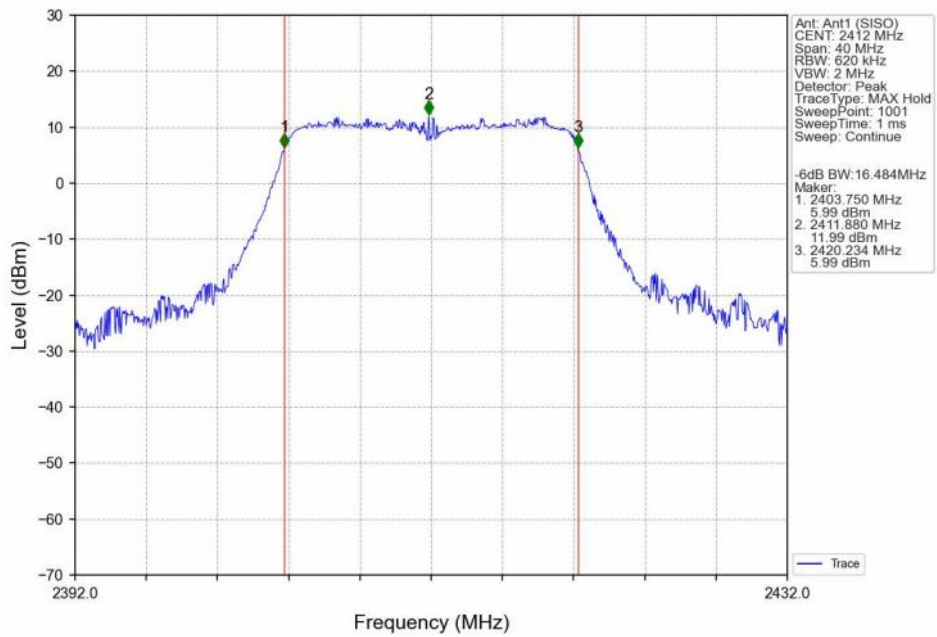
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



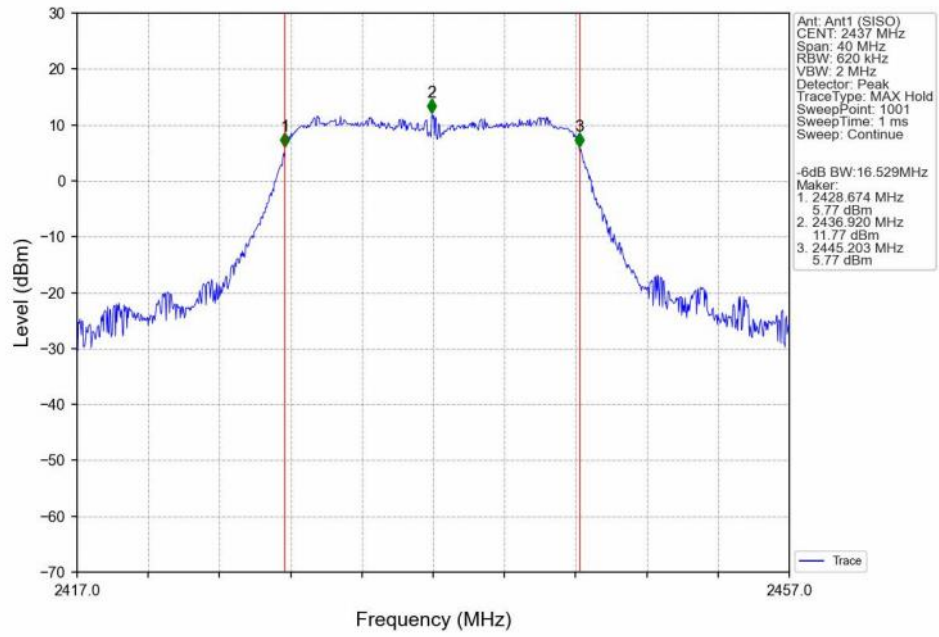
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



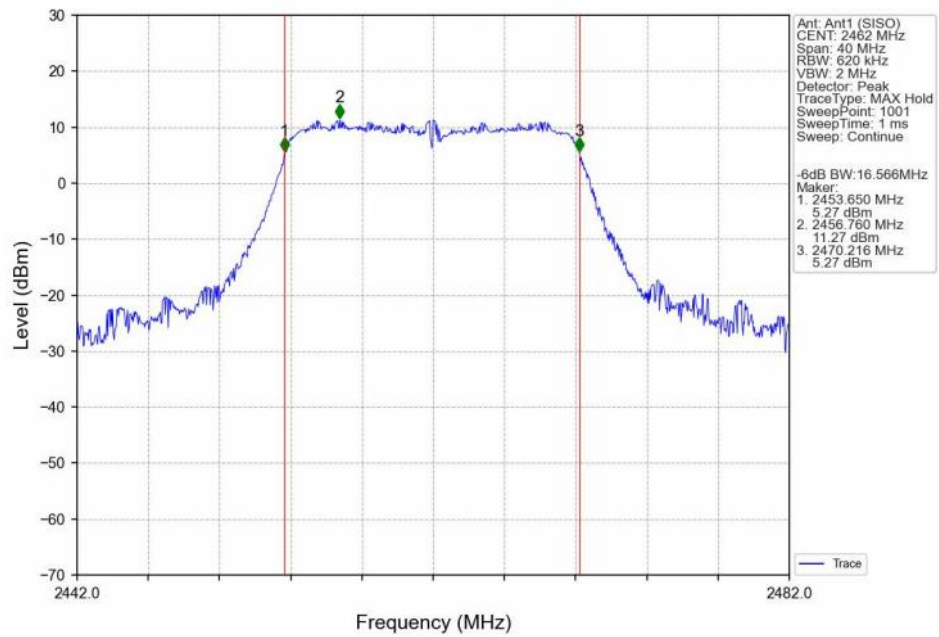
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



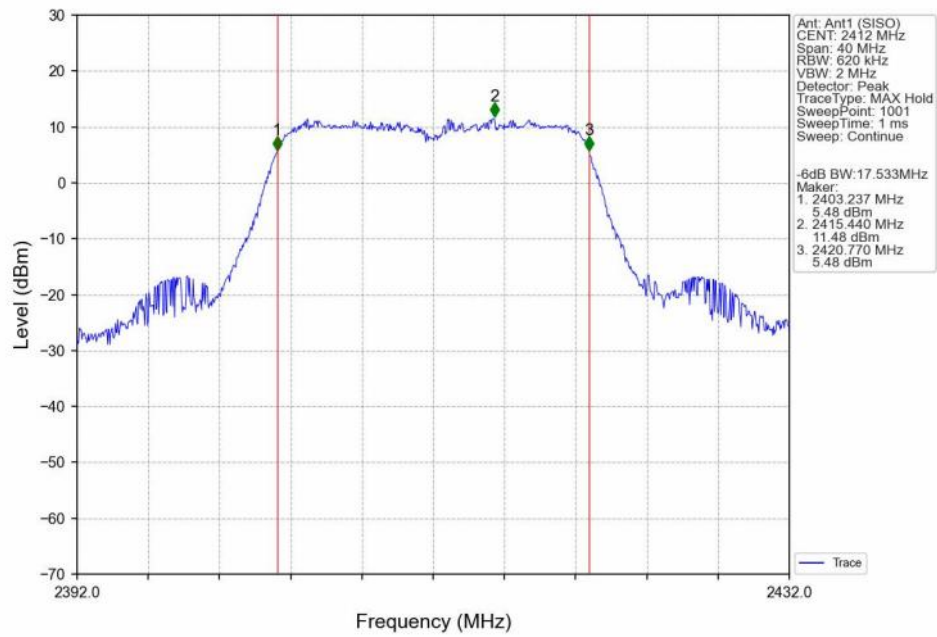
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



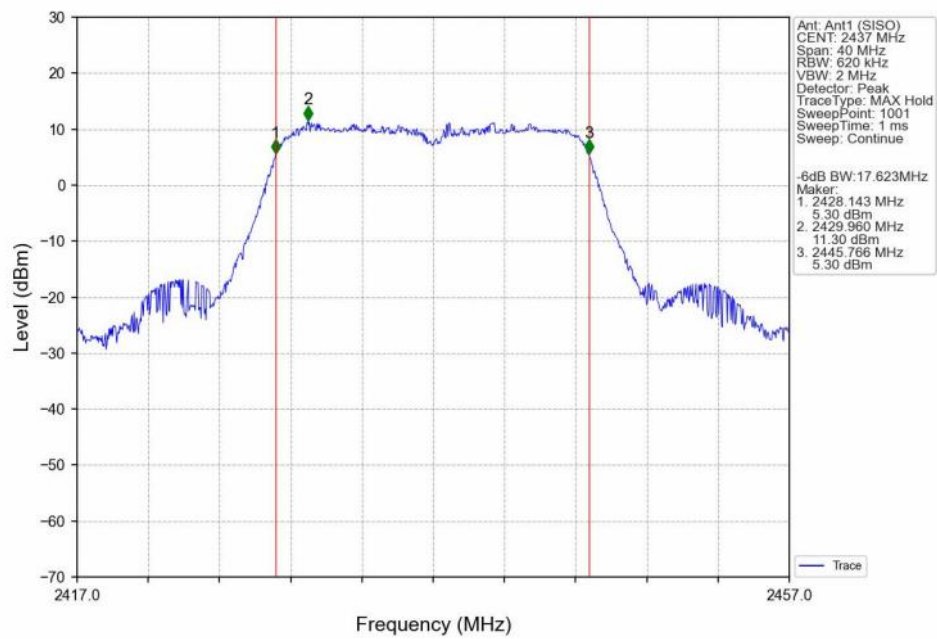
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



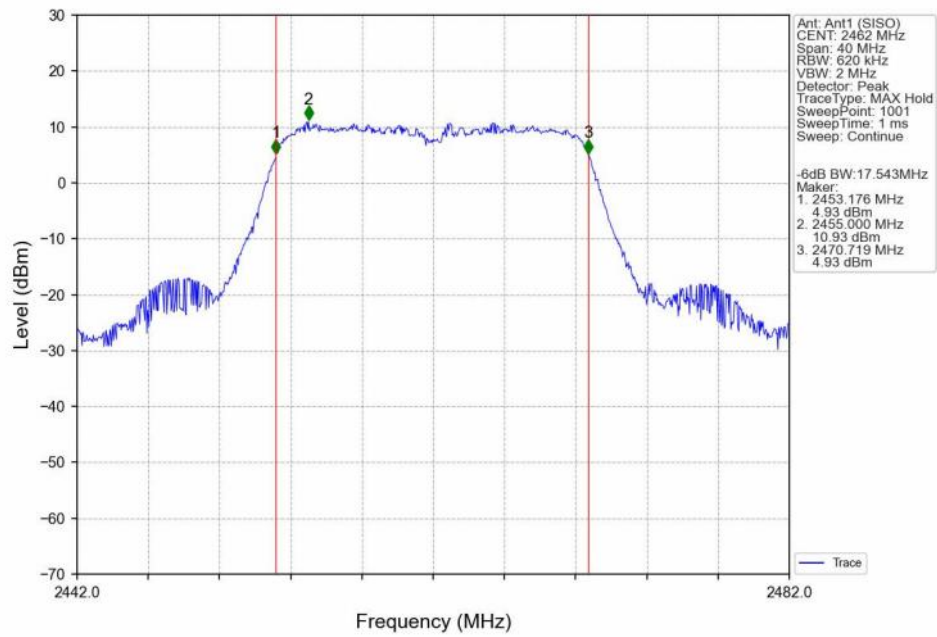
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



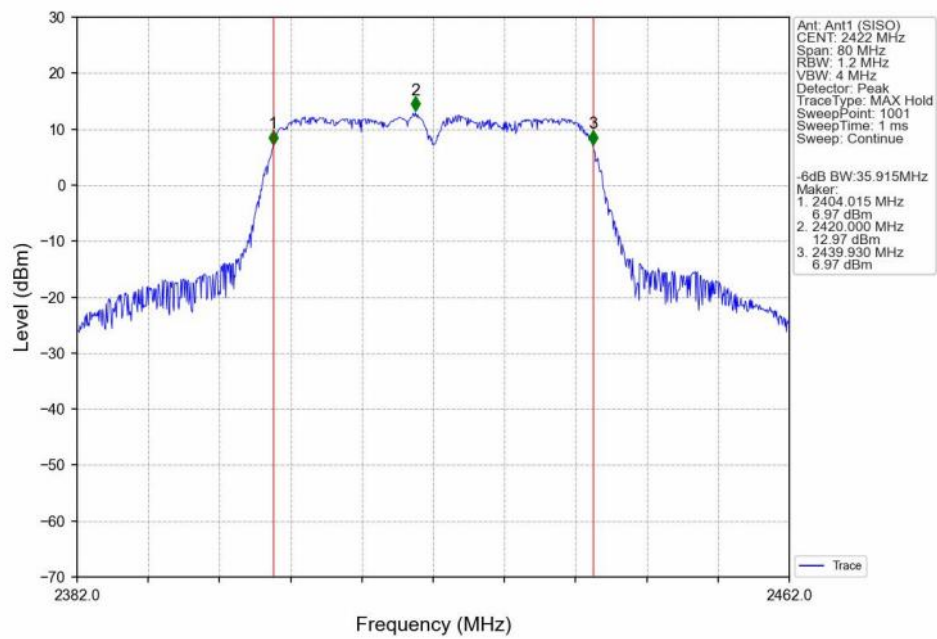
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



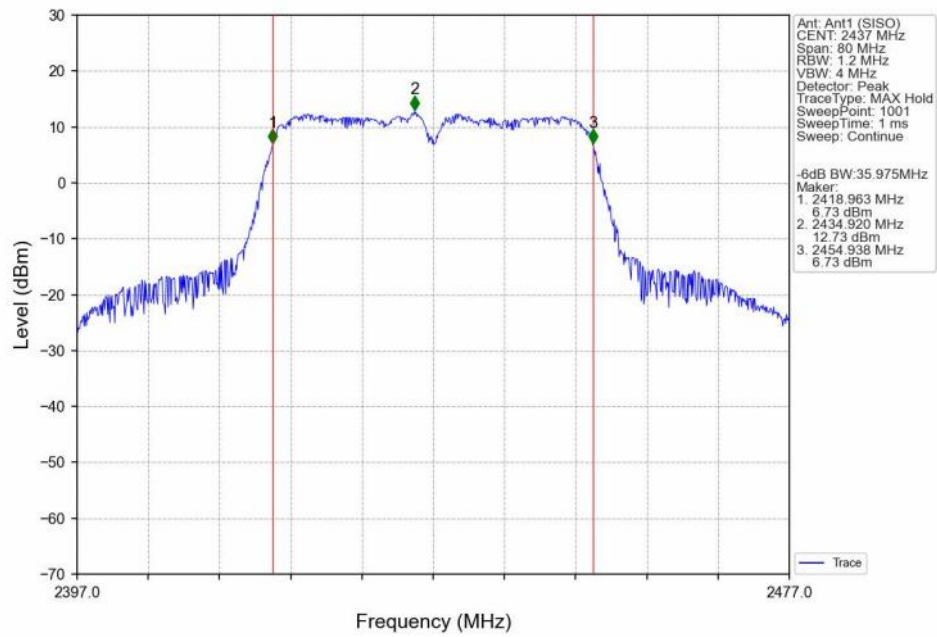
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



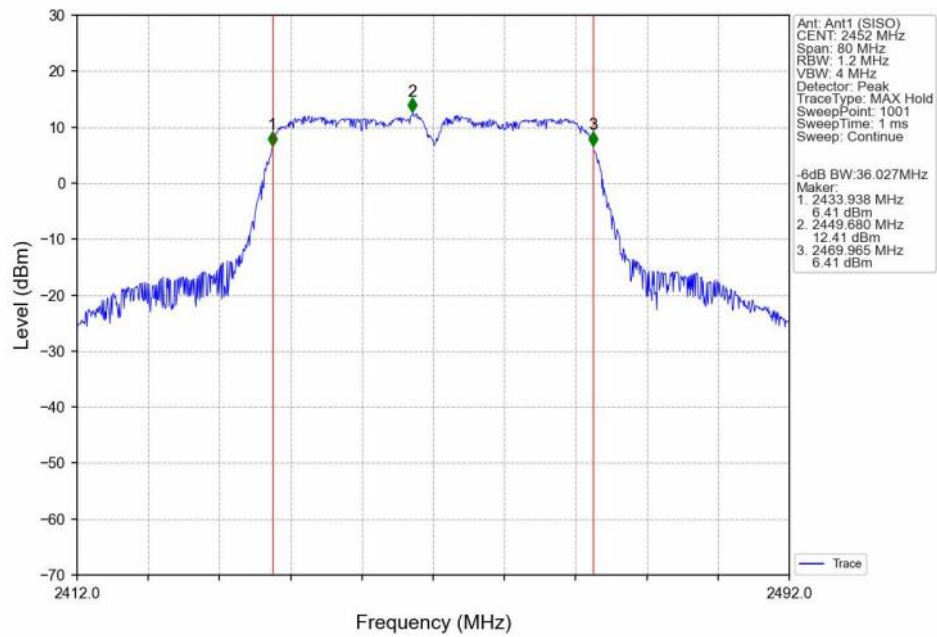
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Duty Cycle Correction Factor (dB)	Conducted Measurement Average Output Power (dBm)	Maximum Average Output Power (dBm)	Limit	Verdict
802.11b	SISO	2412	0.50	12.49	12.99	<=30	Pass
		2437	0.50	12.34	12.84	<=30	Pass
		2462	0.50	12.06	12.56	<=30	Pass
802.11g	SISO	2412	2.40	11.30	13.70	<=30	Pass
		2437	2.40	11.09	13.49	<=30	Pass
		2462	2.40	11.73	14.13	<=30	Pass
802.11n (HT20)	SISO	2412	2.52	11.24	13.76	<=30	Pass
		2437	2.52	11.11	13.63	<=30	Pass
		2462	2.52	11.72	14.24	<=30	Pass
802.11n (HT40)	SISO	2422	4.12	10.58	14.70	<=30	Pass
		2437	4.12	10.42	14.54	<=30	Pass
		2452	4.12	10.12	14.24	<=30	Pass

Note1: Antenna Gain: Ant1: 1.4dBi;

4. Maximum Power Spectral Density

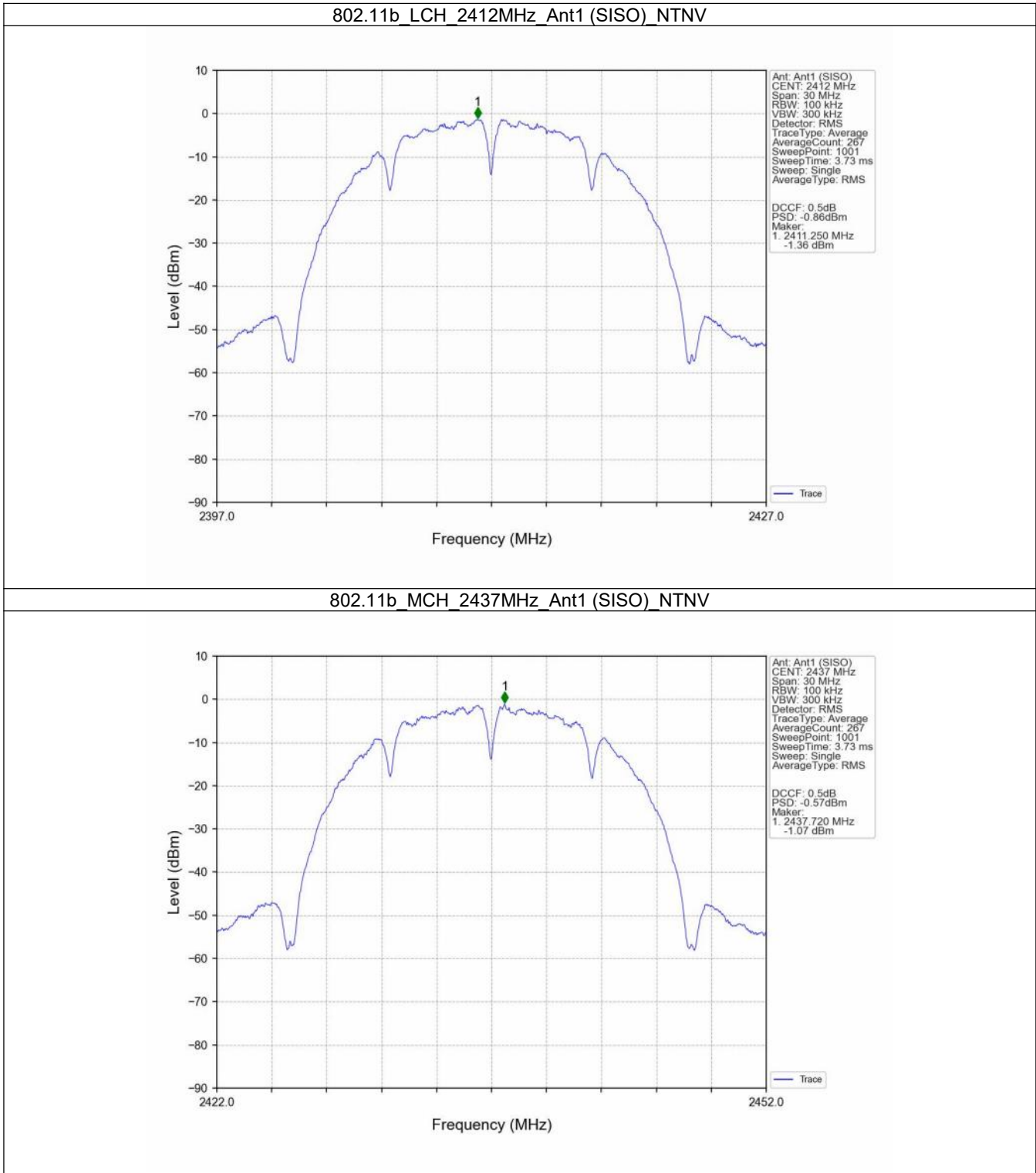
4.1 Test Result

4.1.1 PSD

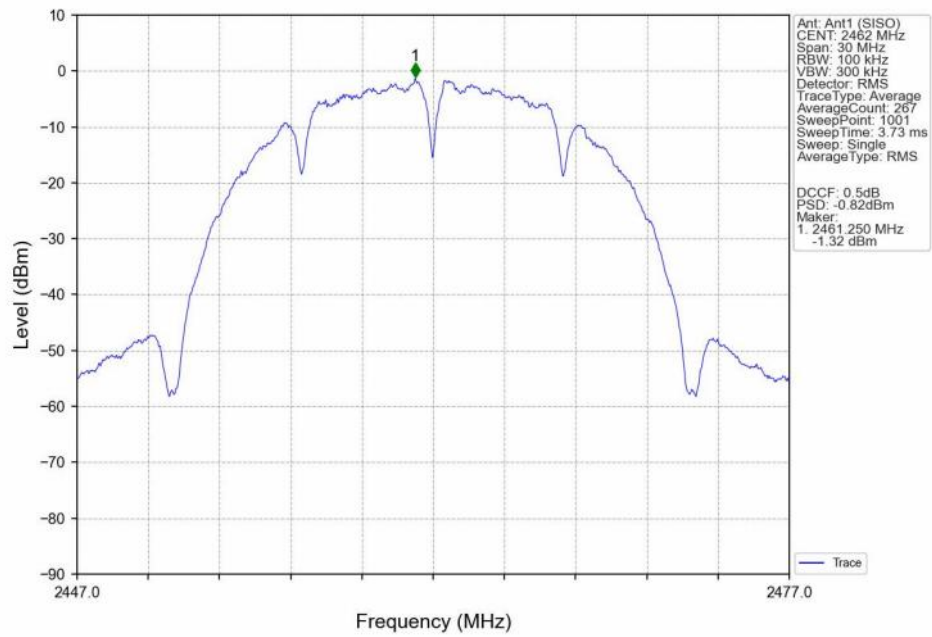
Mode	TX Type	Frequency (MHz)	Duty Cycle Correction Factor (dB)	Conducted Measurement Average Output PSDr (dBm)	Maximum Average Output PSD (dBm)	Limit	Verdict
802.11b	SISO	2412	0.50	-1.36	-0.86	<=8	Pass
		2437	0.50	-1.07	-0.57	<=8	Pass
		2462	0.50	-1.32	-0.82	<=8	Pass
802.11g	SISO	2412	2.40	-4.94	-2.54	<=8	Pass
		2437	2.40	-5.32	-2.92	<=8	Pass
		2462	2.40	-5.2	-2.80	<=8	Pass
802.11n (HT20)	SISO	2412	2.52	-5.15	-2.63	<=8	Pass
		2437	2.52	-5.15	-2.63	<=8	Pass
		2462	2.52	-5.63	-3.11	<=8	Pass
802.11n (HT40)	SISO	2422	4.12	-8.48	-4.36	<=8	Pass
		2437	4.12	-9.03	-4.91	<=8	Pass
		2452	4.12	-8.97	-4.85	<=8	Pass
Note1: Antenna Gain: Ant1: 1.4dBi;							

4.2 Test Graph

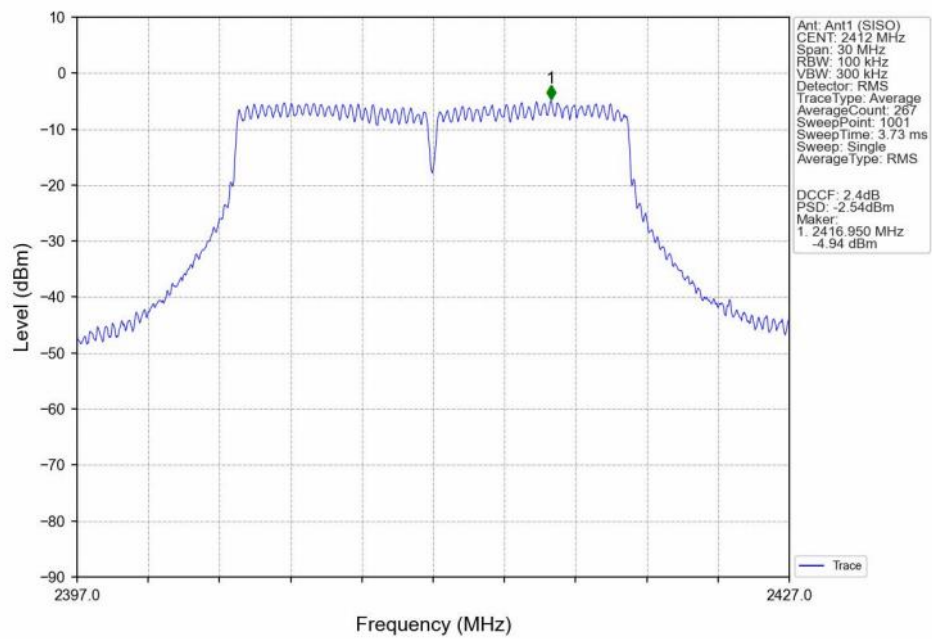
4.2.1 PSD



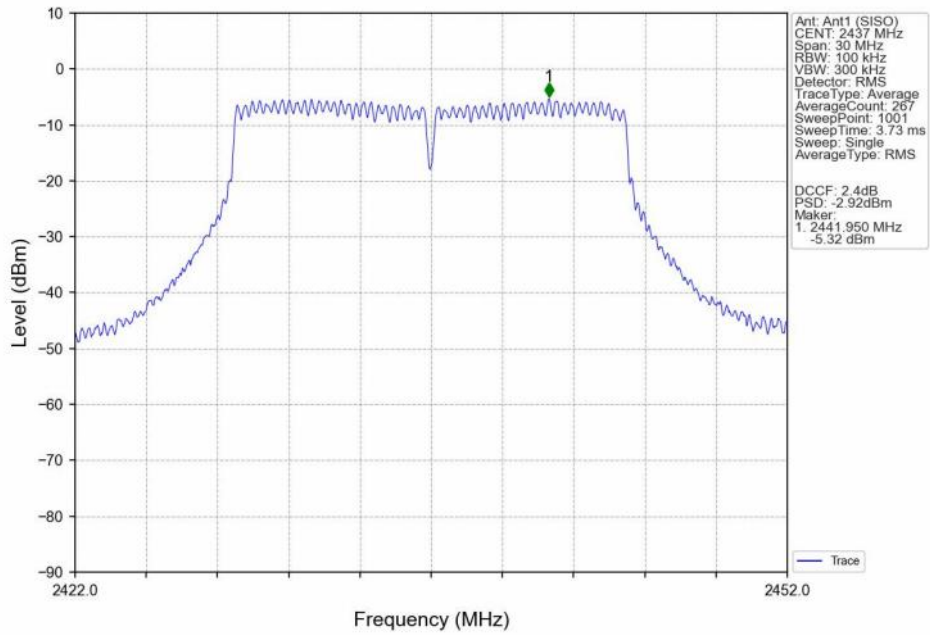
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



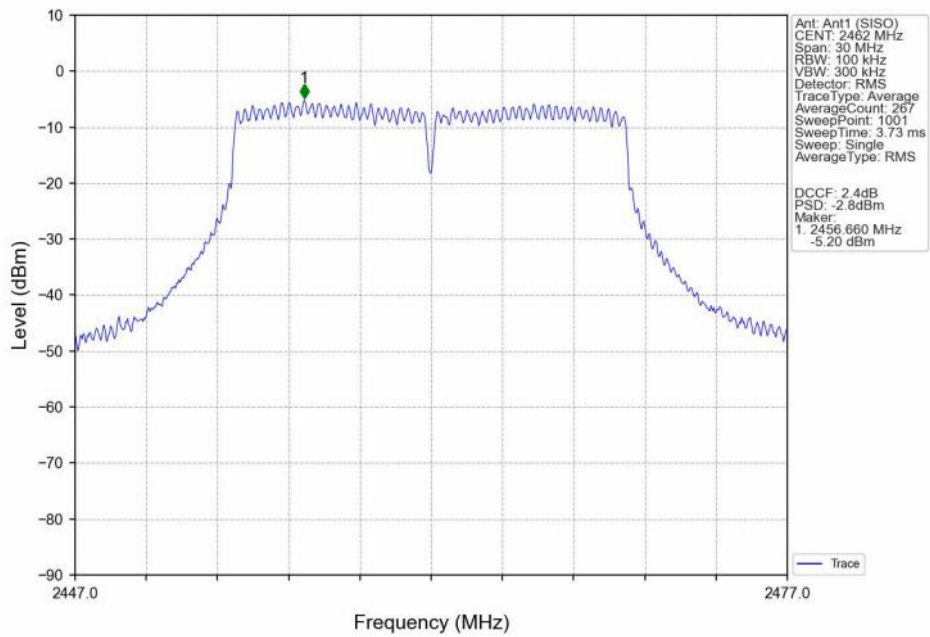
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



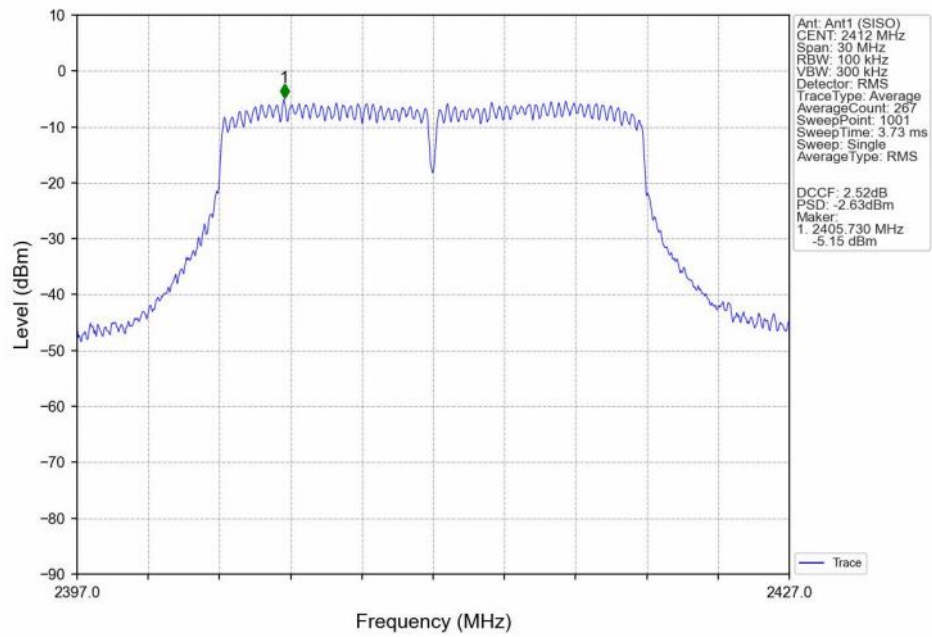
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



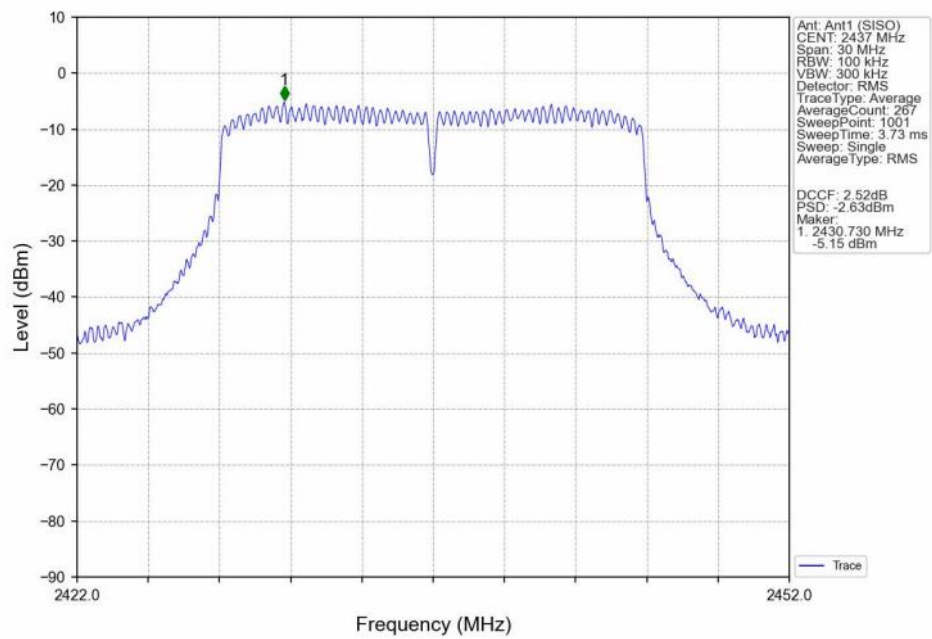
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



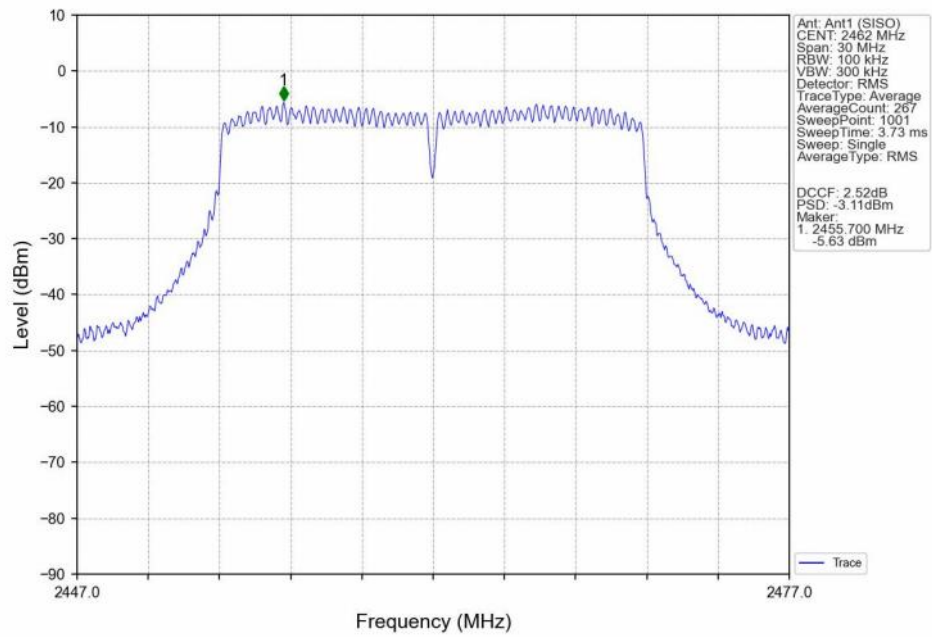
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



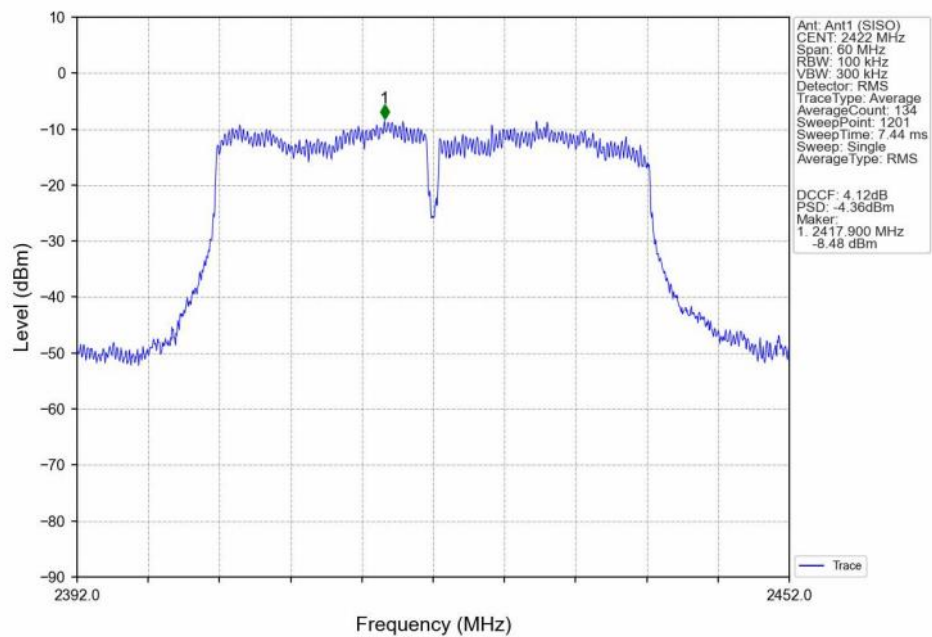
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



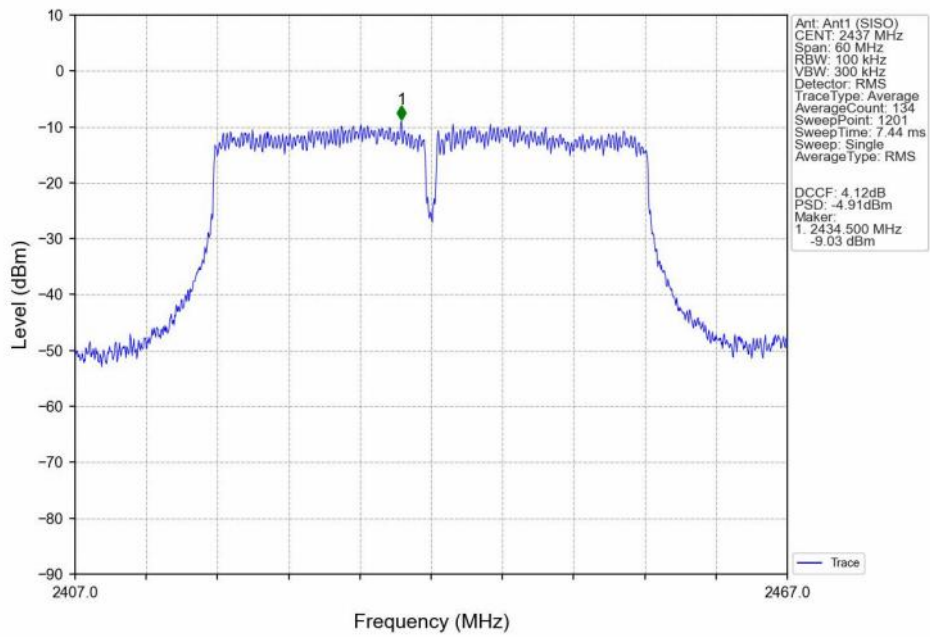
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



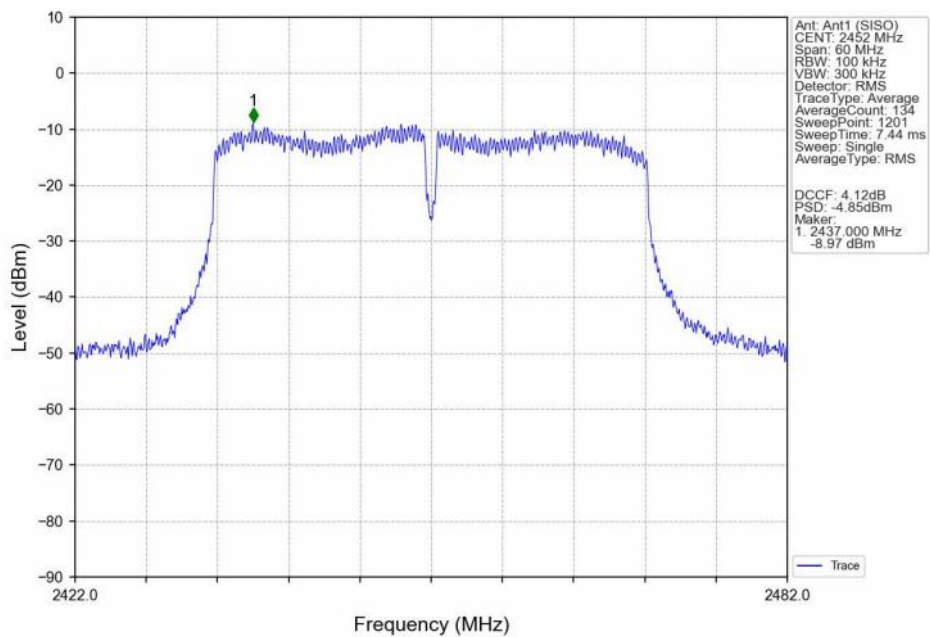
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

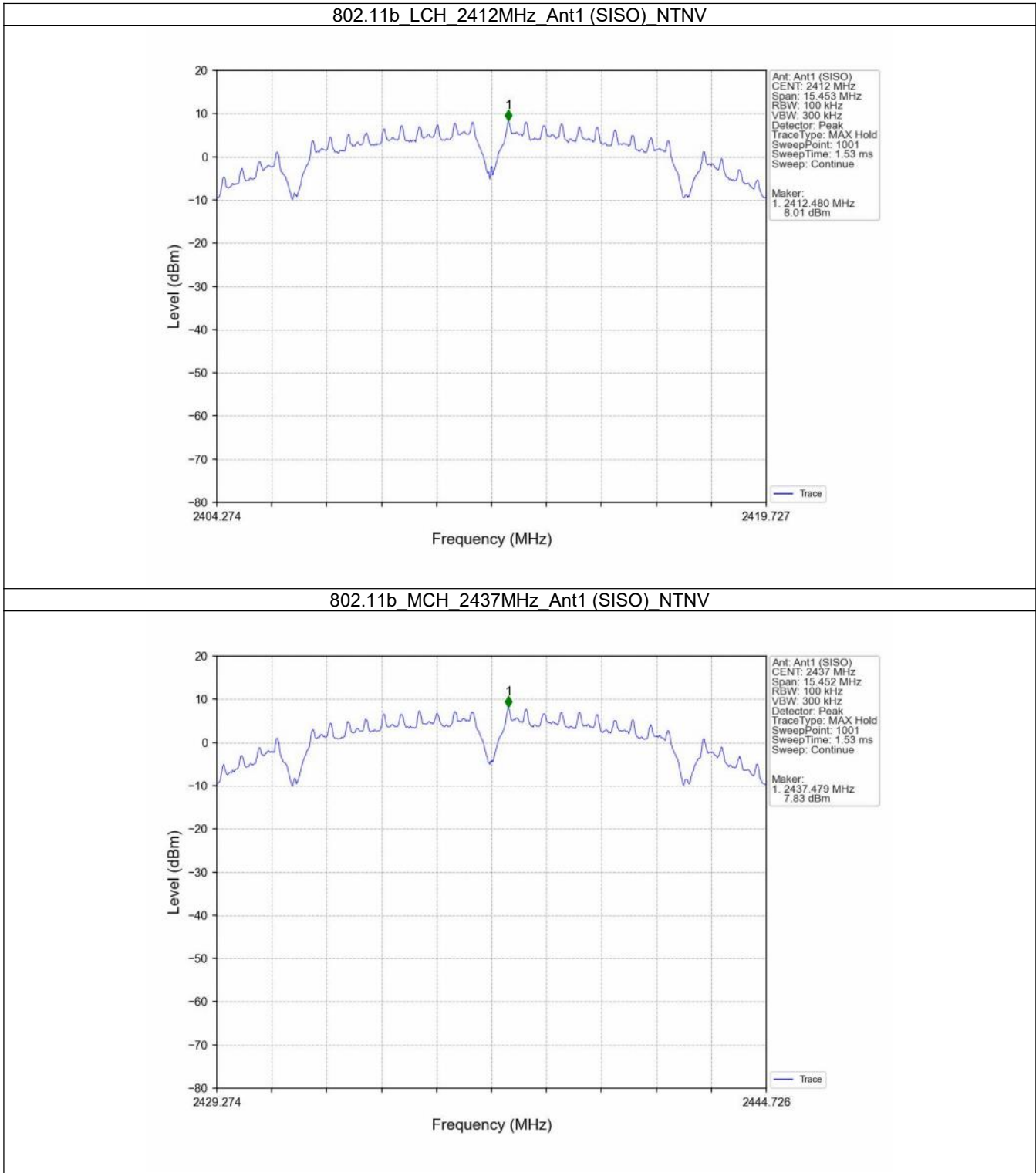
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	8.01
		2437	1	7.83
		2462	1	7.30
802.11g	SISO	2412	1	6.31
		2437	1	6.18
		2462	1	5.84
802.11n (HT20)	SISO	2412	1	6.32
		2437	1	5.94
		2462	1	5.73
802.11n (HT40)	SISO	2422	1	3.67
		2437	1	3.19
		2452	1	3.25

5.1.2 CSE

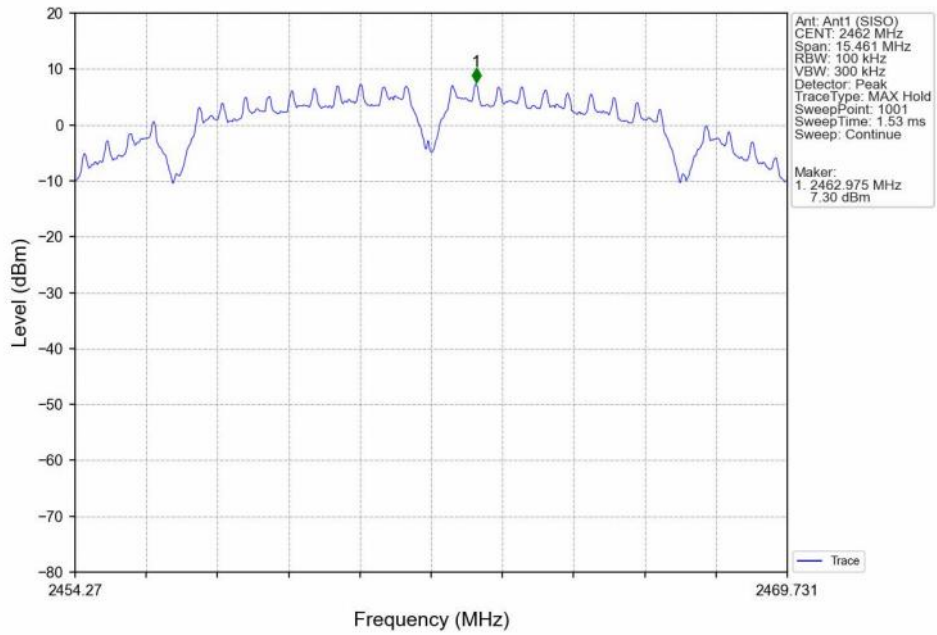
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.01	-21.99	Pass
		2437	1	7.83	-22.17	Pass
		2462	1	7.30	-22.70	Pass
802.11g	SISO	2412	1	6.31	-23.69	Pass
		2437	1	6.18	-23.82	Pass
		2462	1	5.84	-24.16	Pass
802.11n (HT20)	SISO	2412	1	6.32	-23.68	Pass
		2437	1	5.94	-24.06	Pass
		2462	1	5.73	-24.27	Pass
802.11n (HT40)	SISO	2422	1	3.67	-26.33	Pass
		2437	1	3.19	-26.81	Pass
		2452	1	3.25	-26.75	Pass

5.2 Test Graph

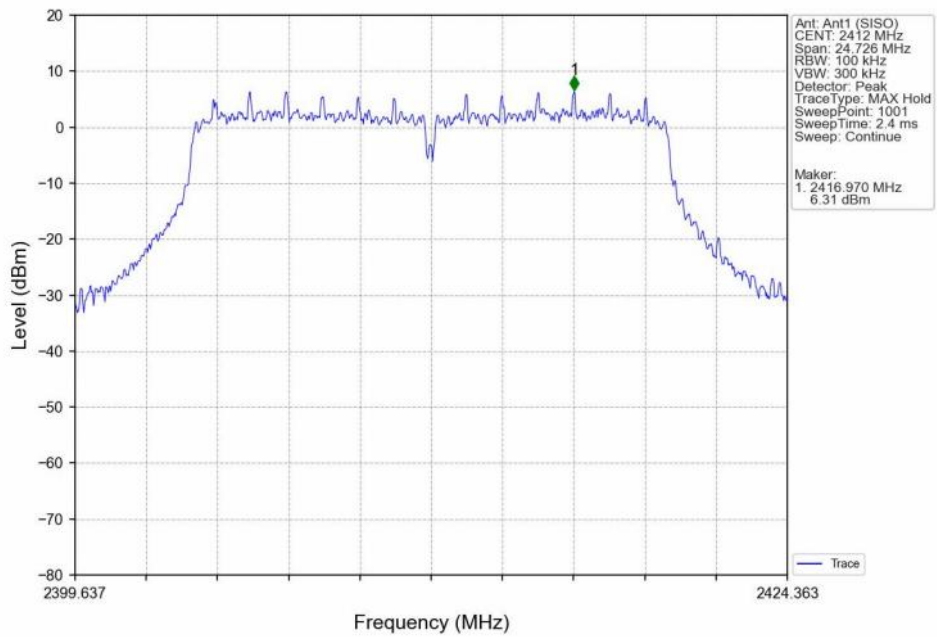
5.2.1 Ref



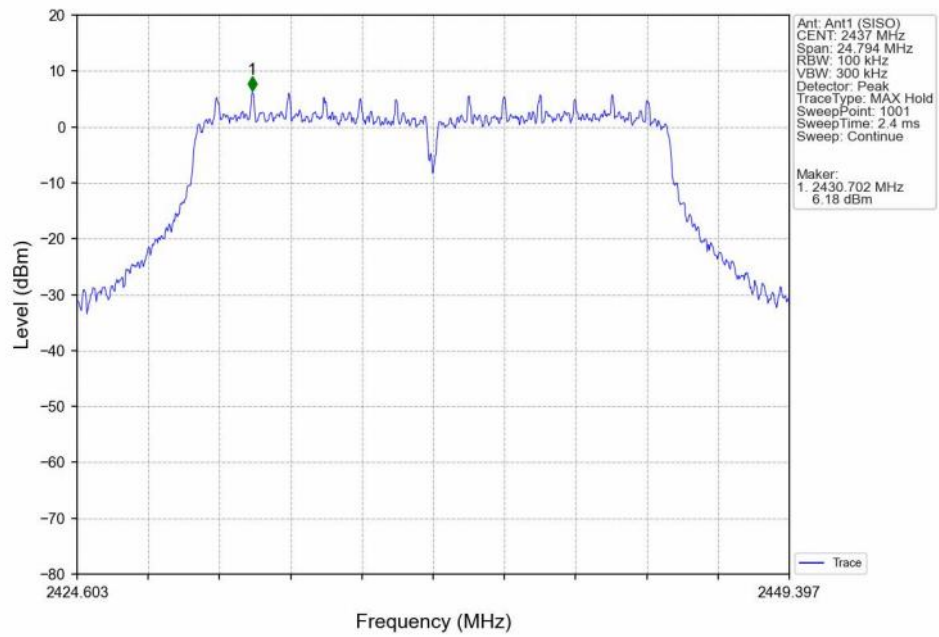
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



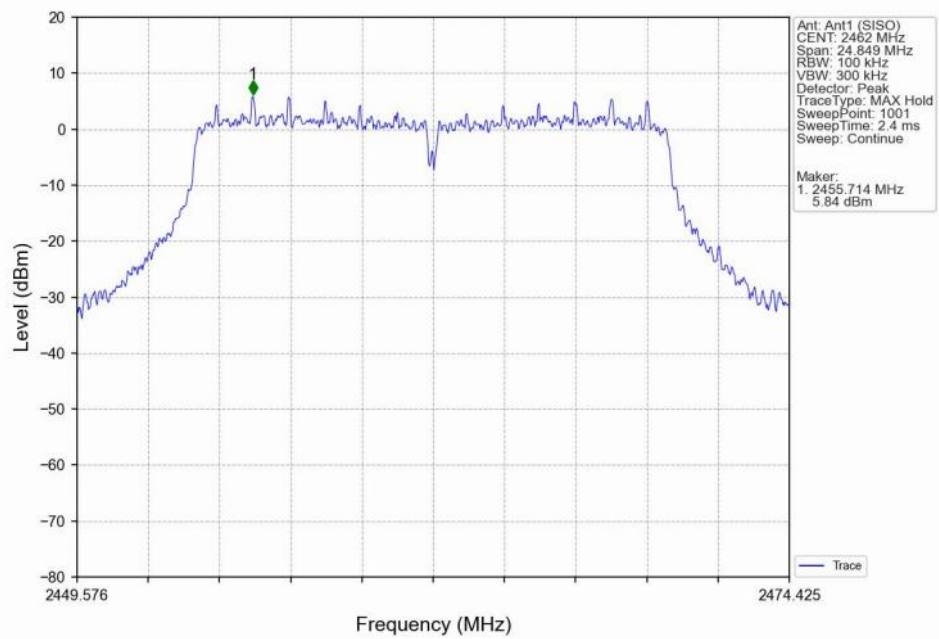
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



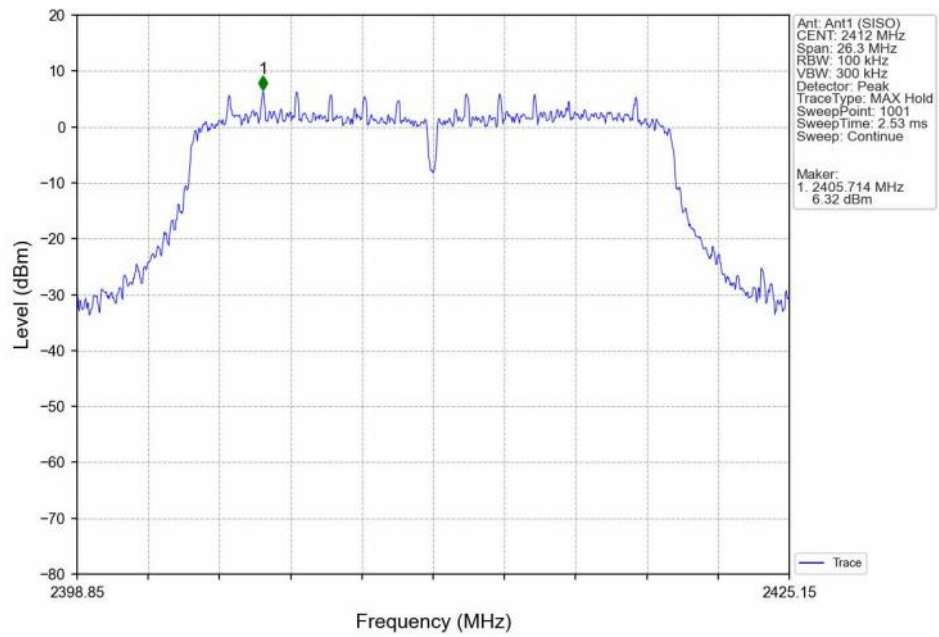
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



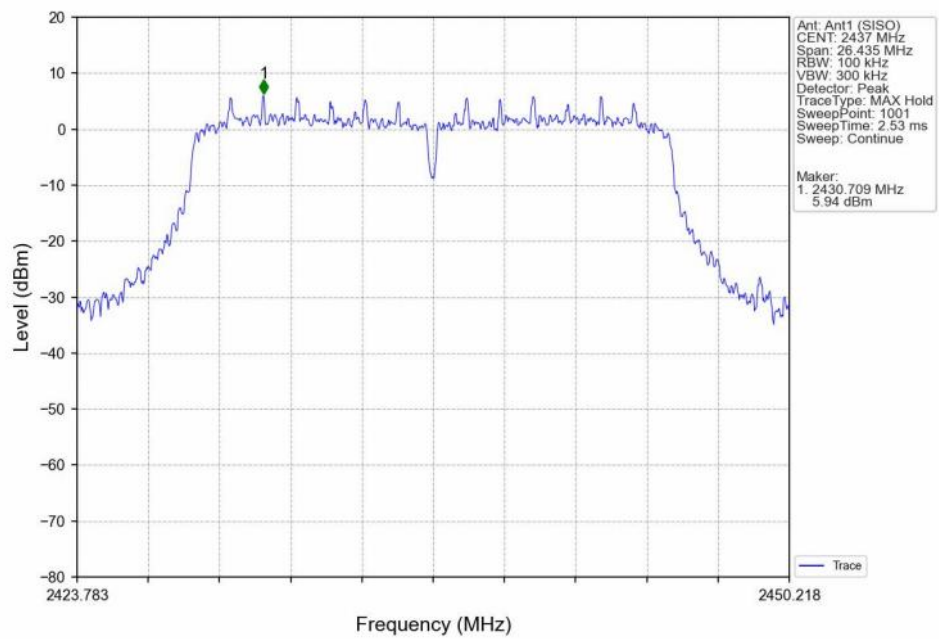
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



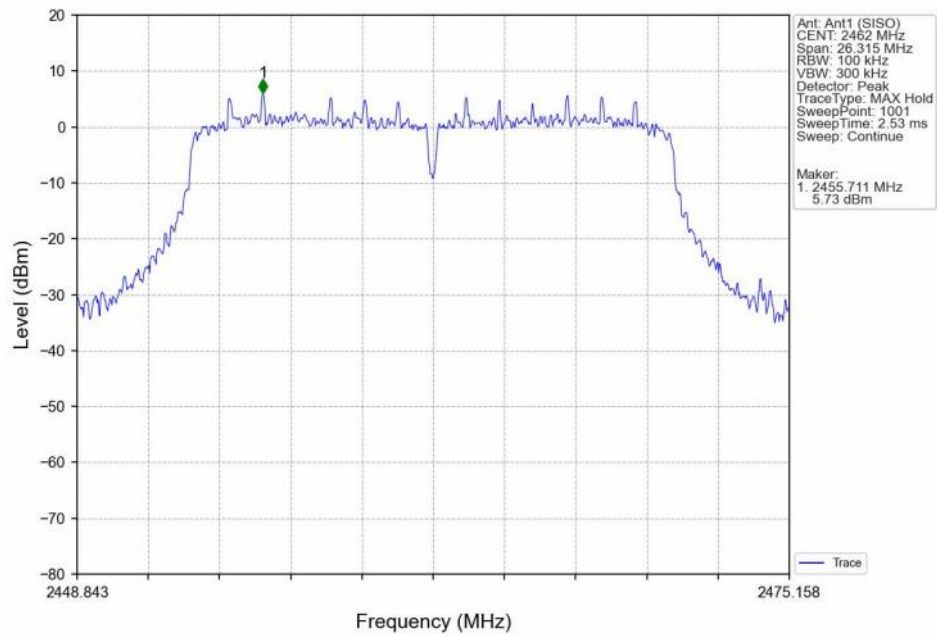
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



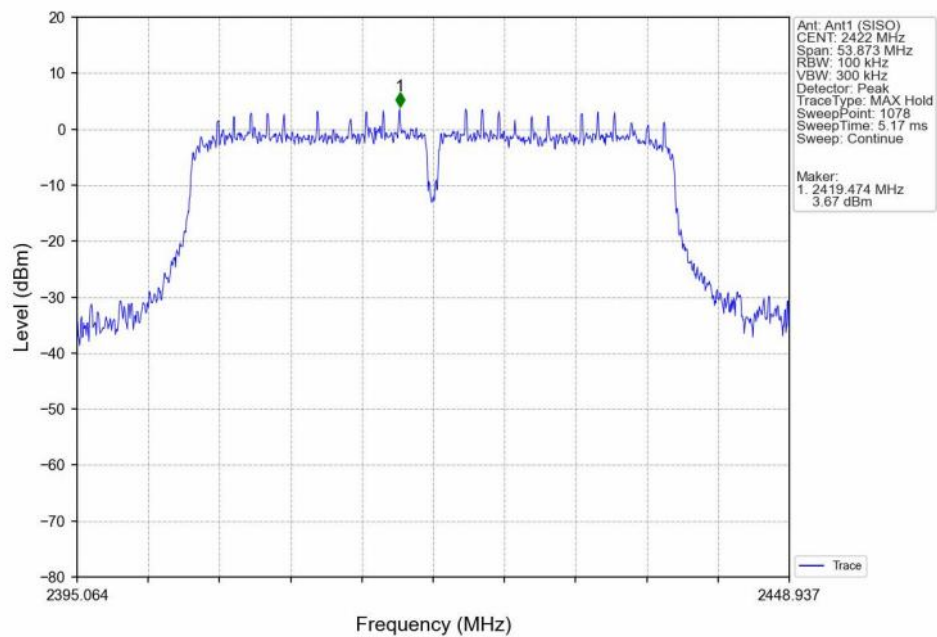
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



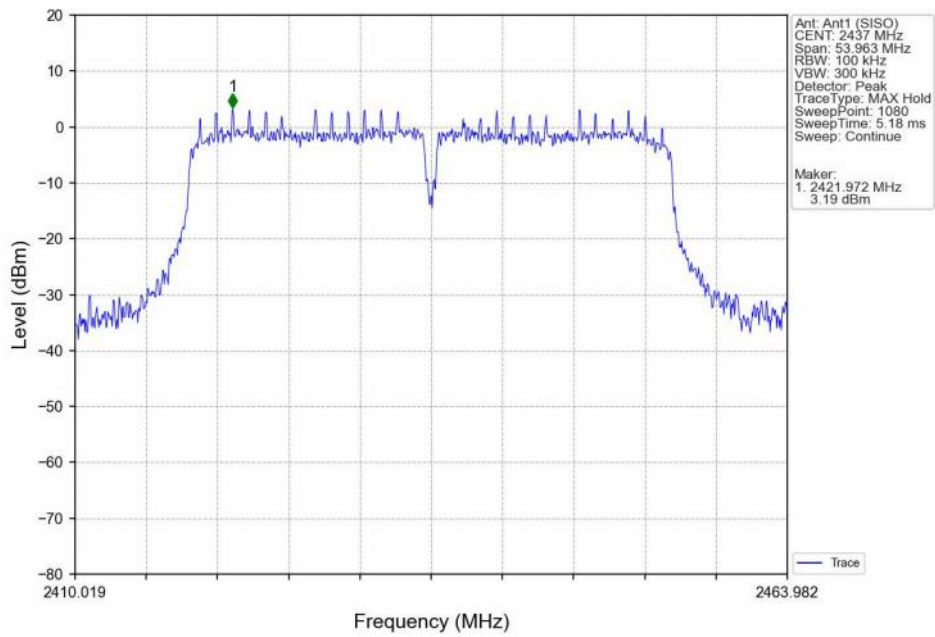
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



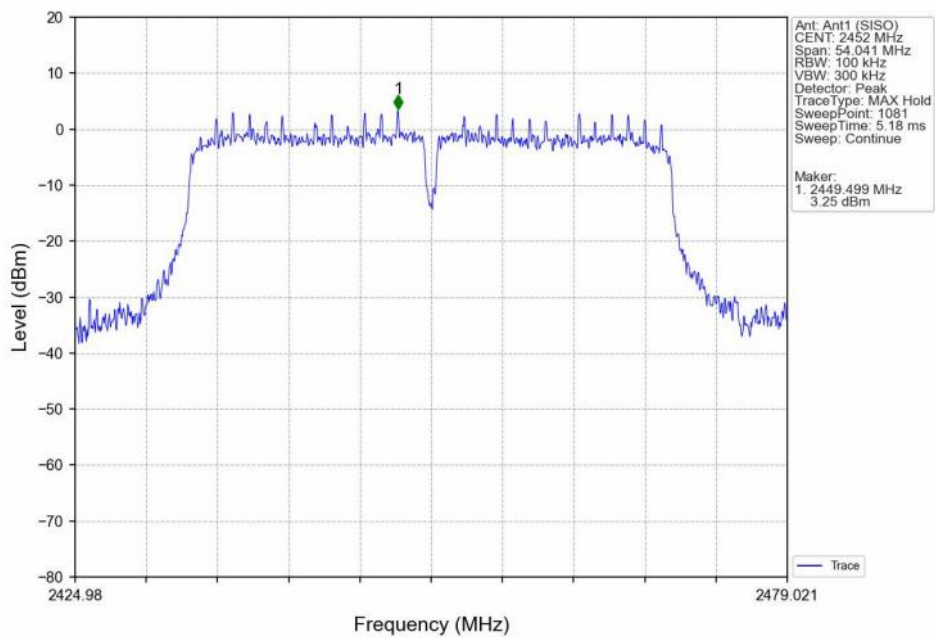
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

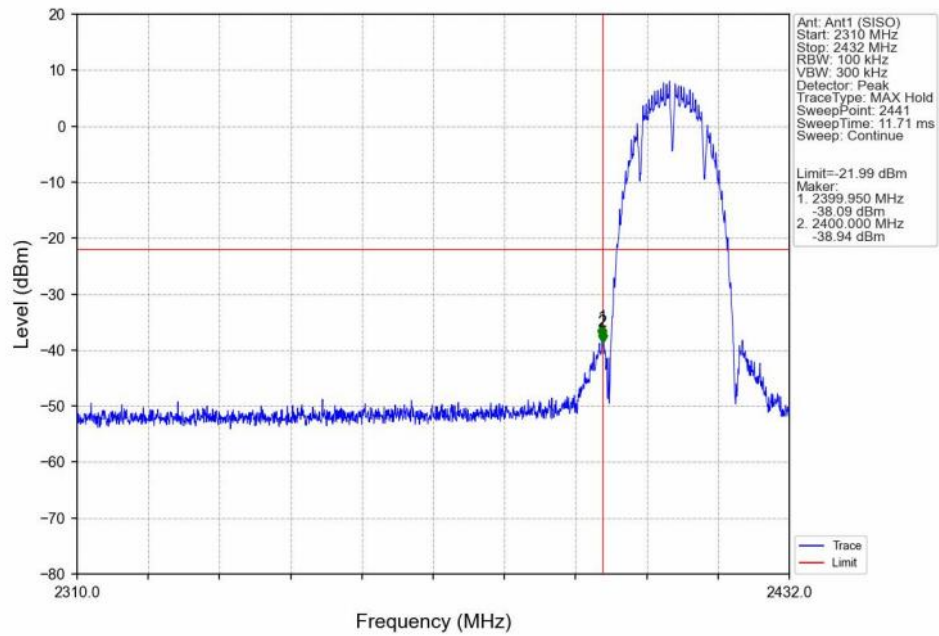


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

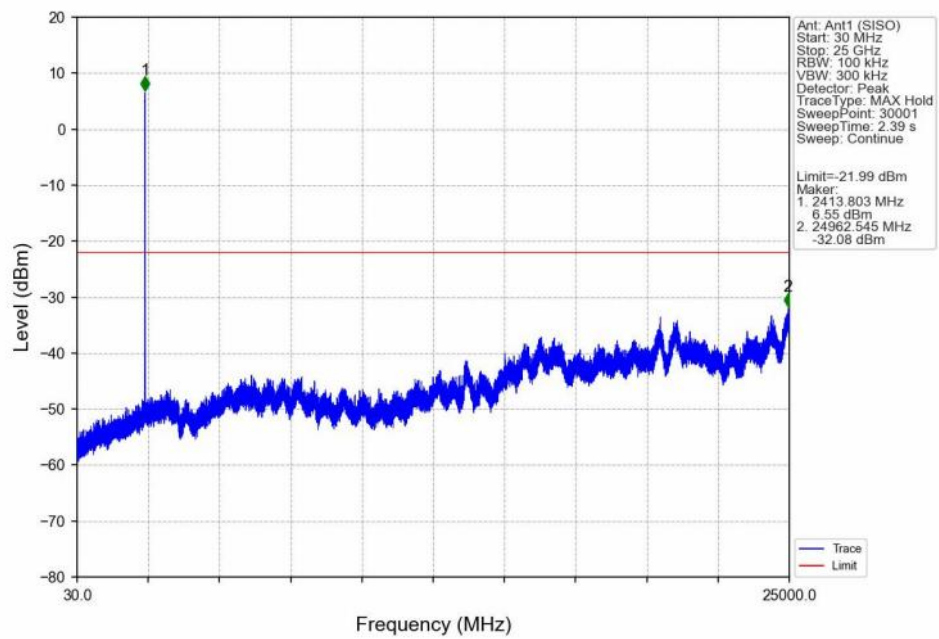


5.2.2 CSE

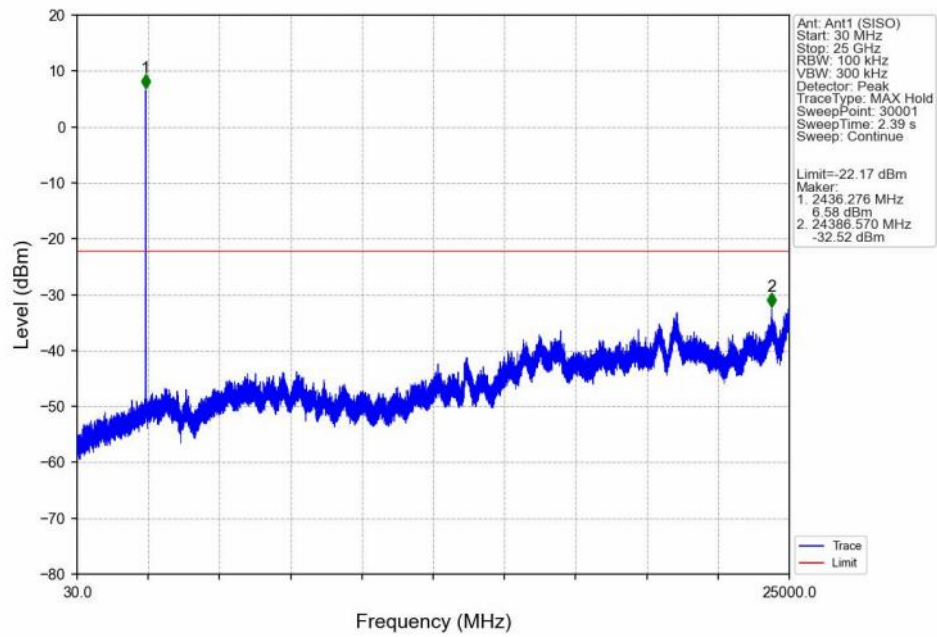
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



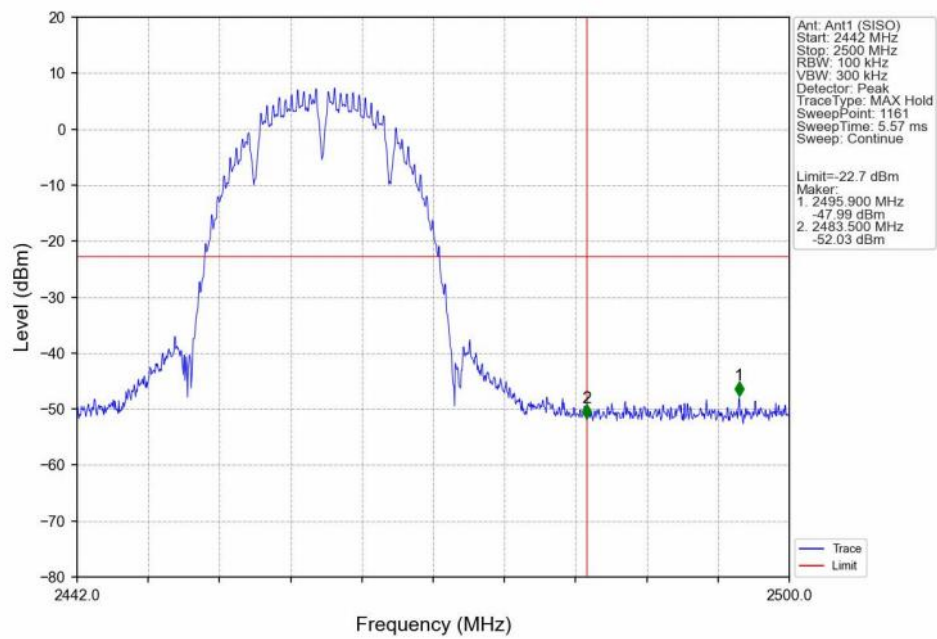
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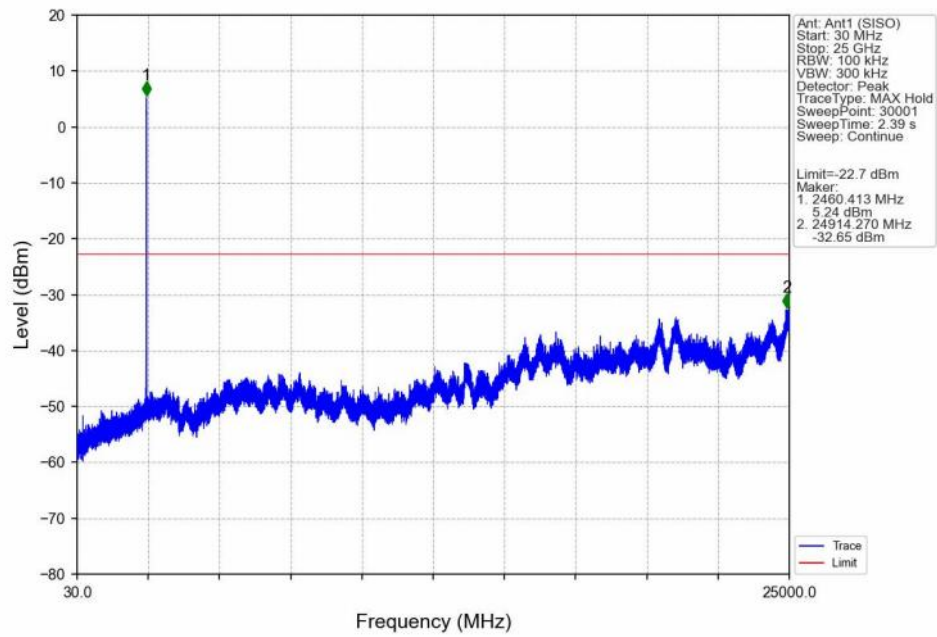
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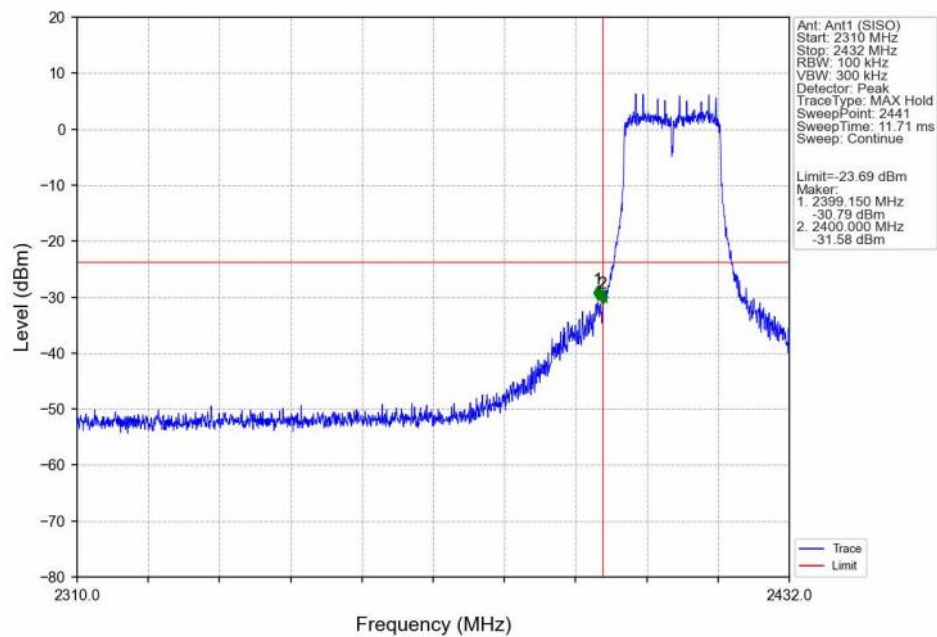
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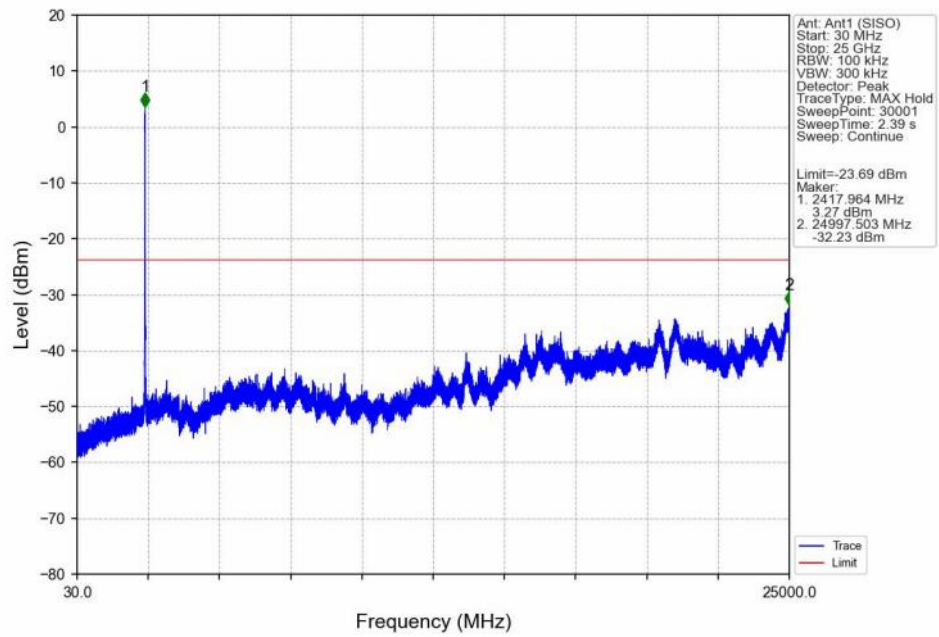
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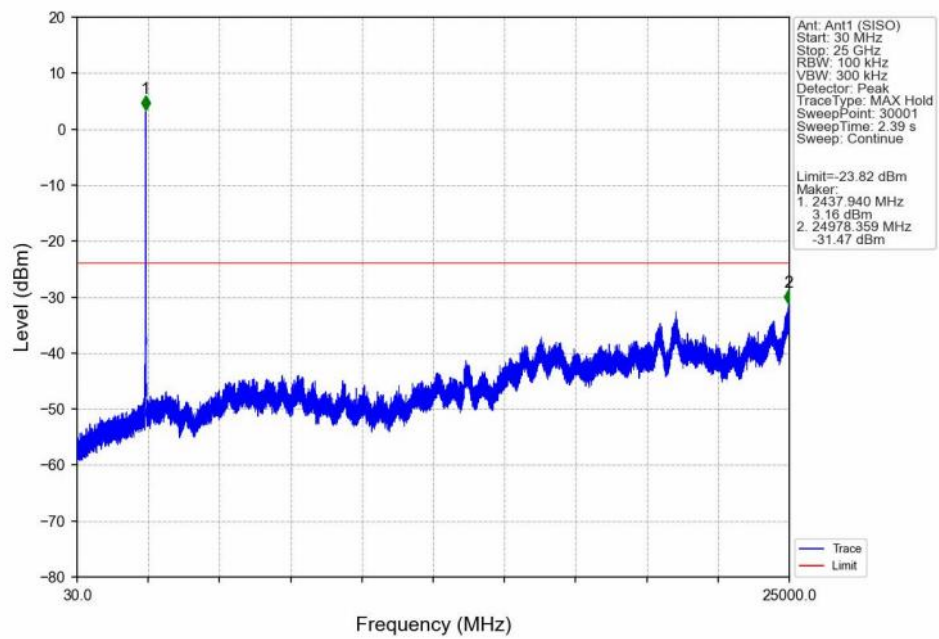
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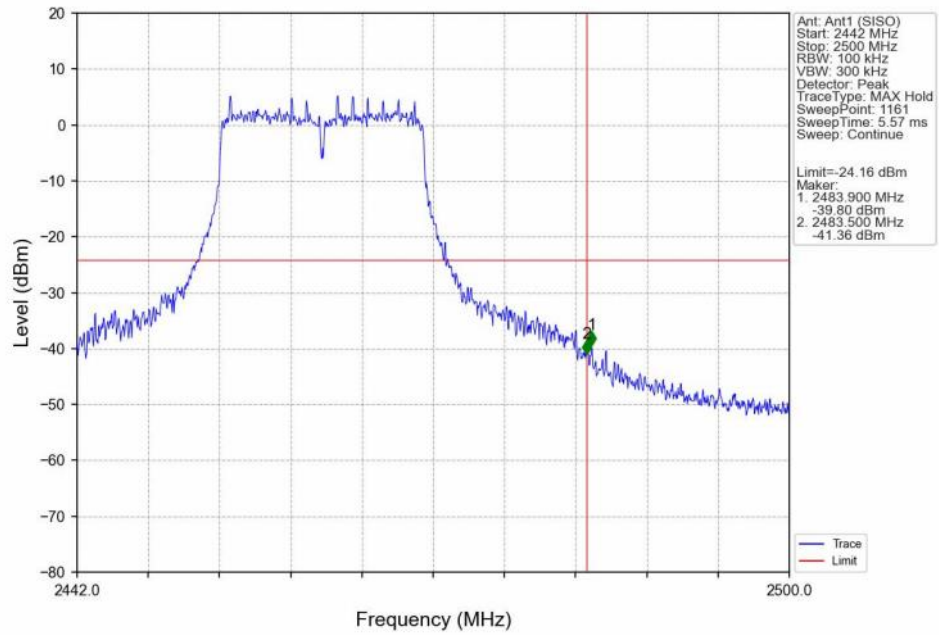
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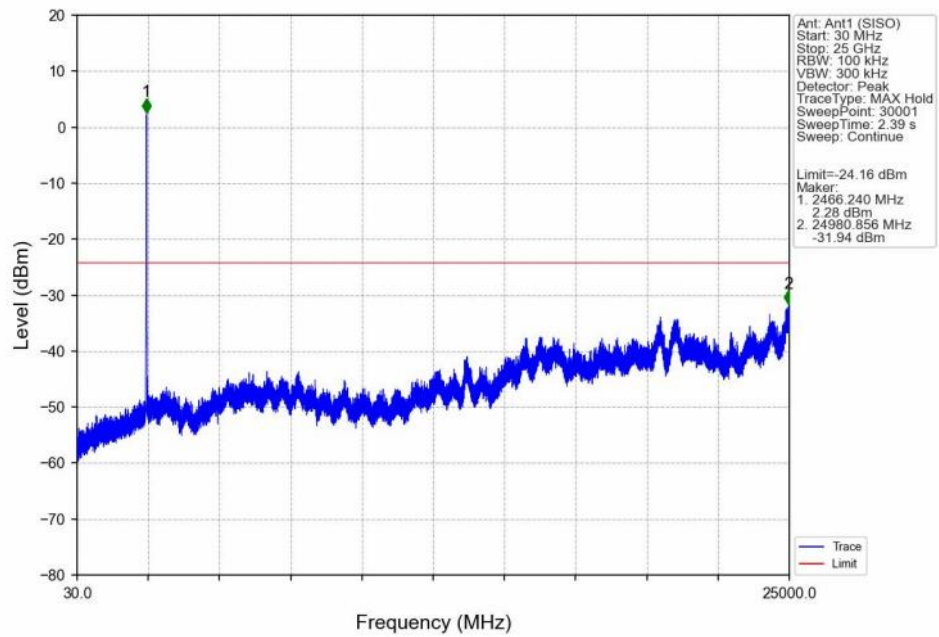
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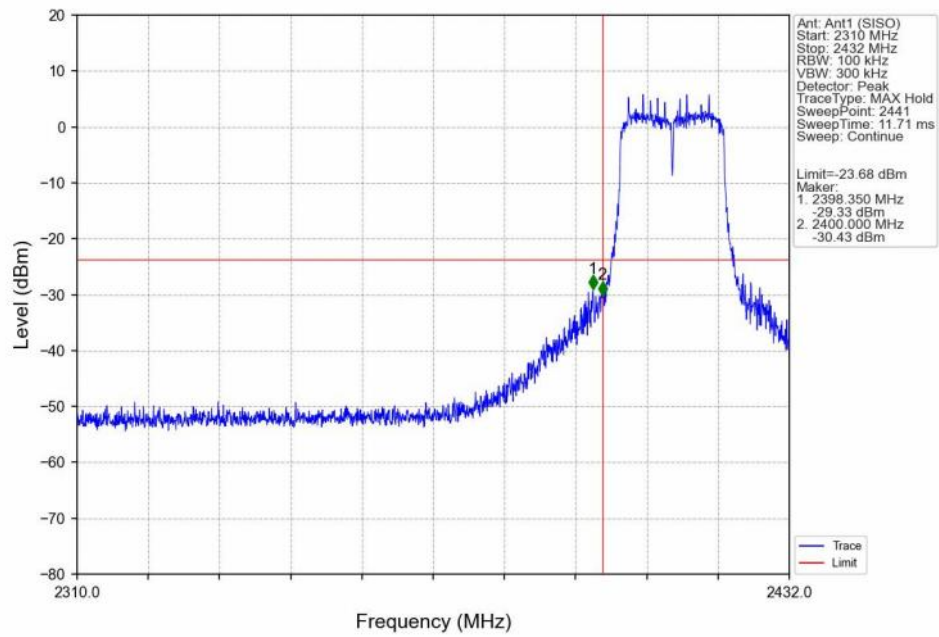
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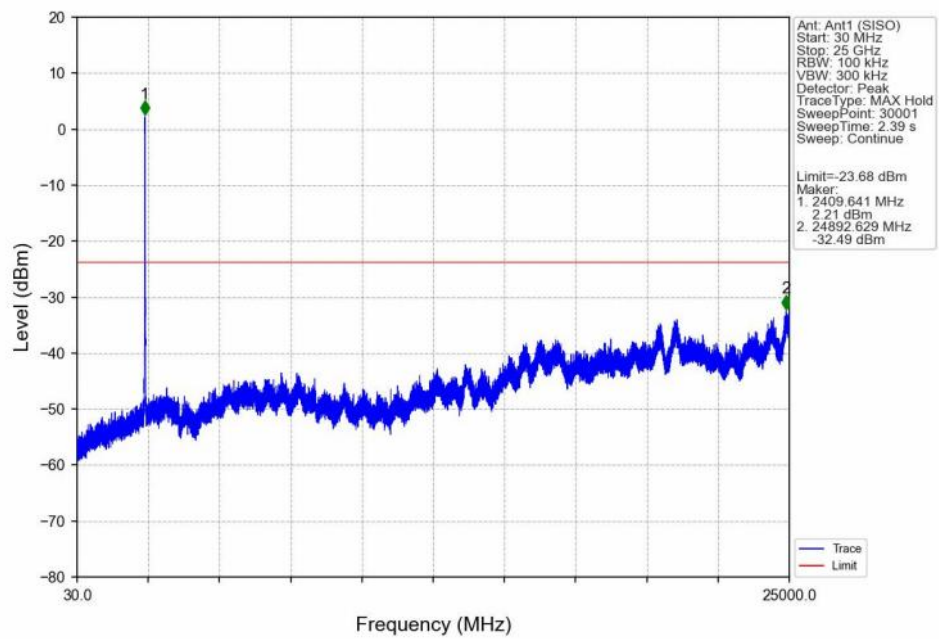
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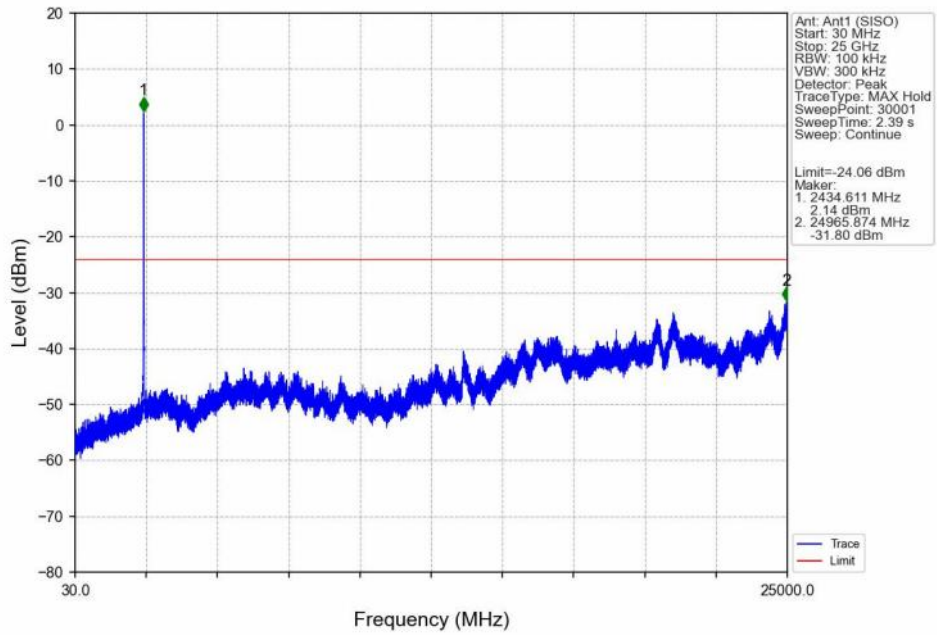
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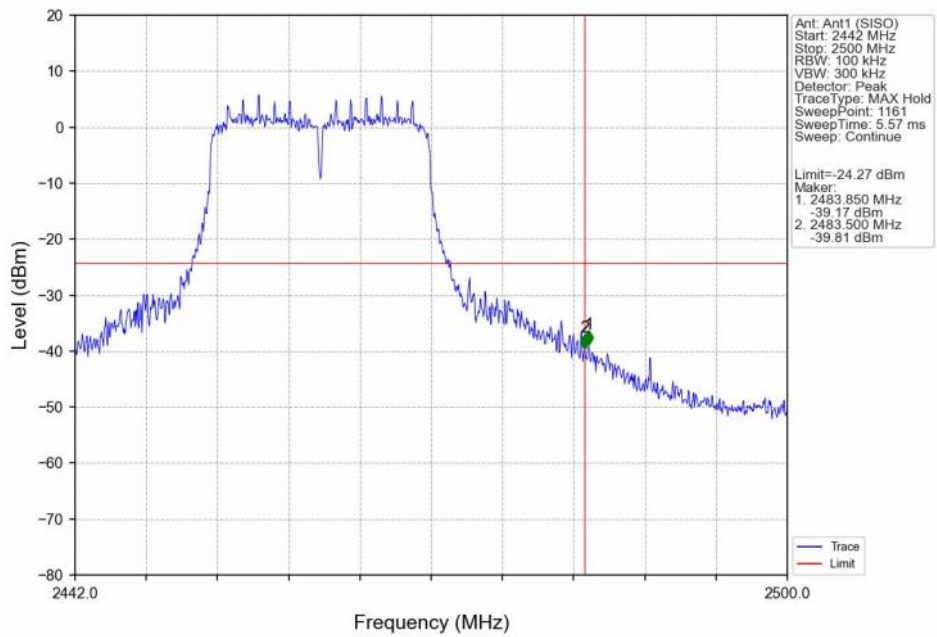
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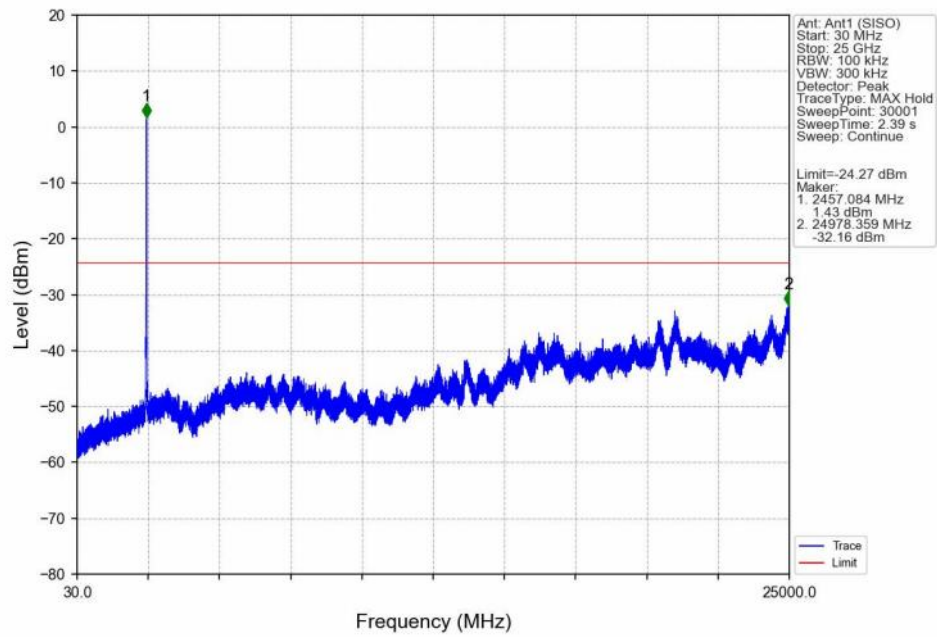
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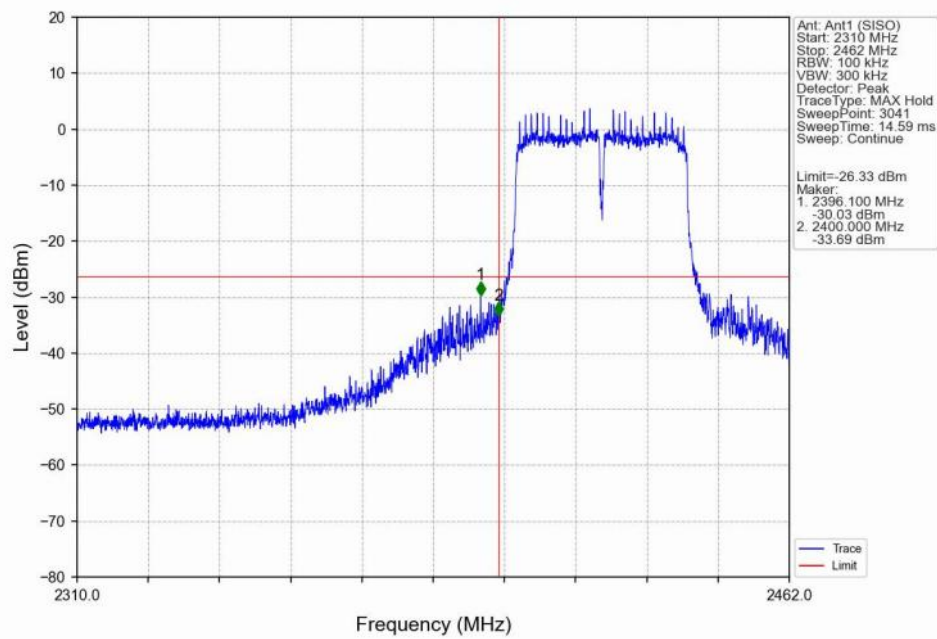
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



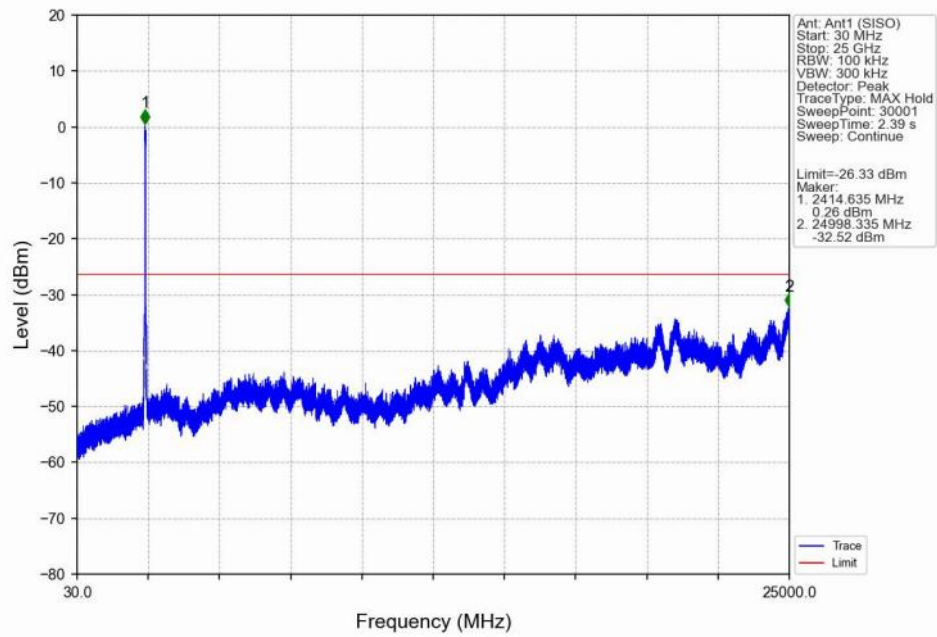
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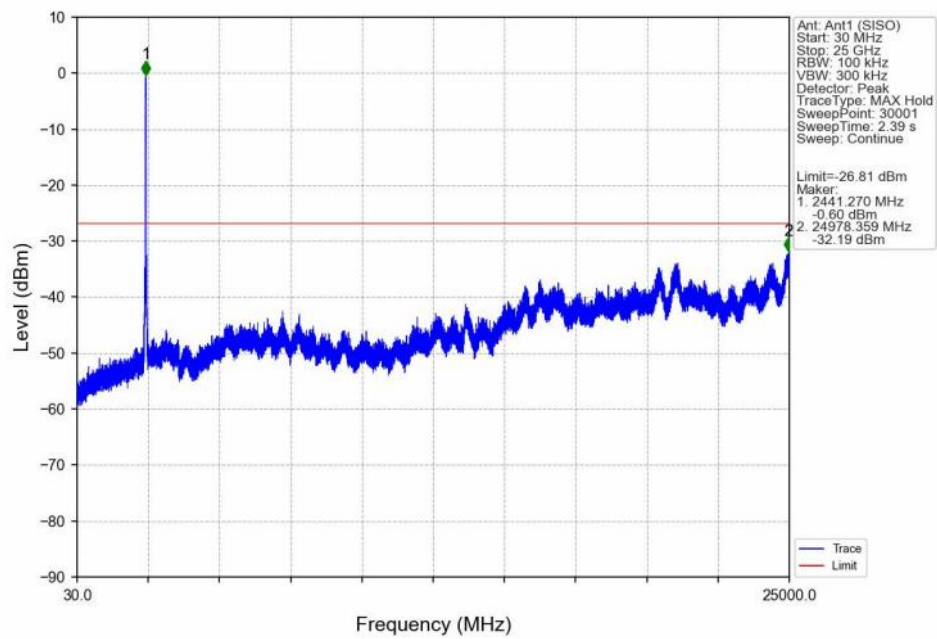
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



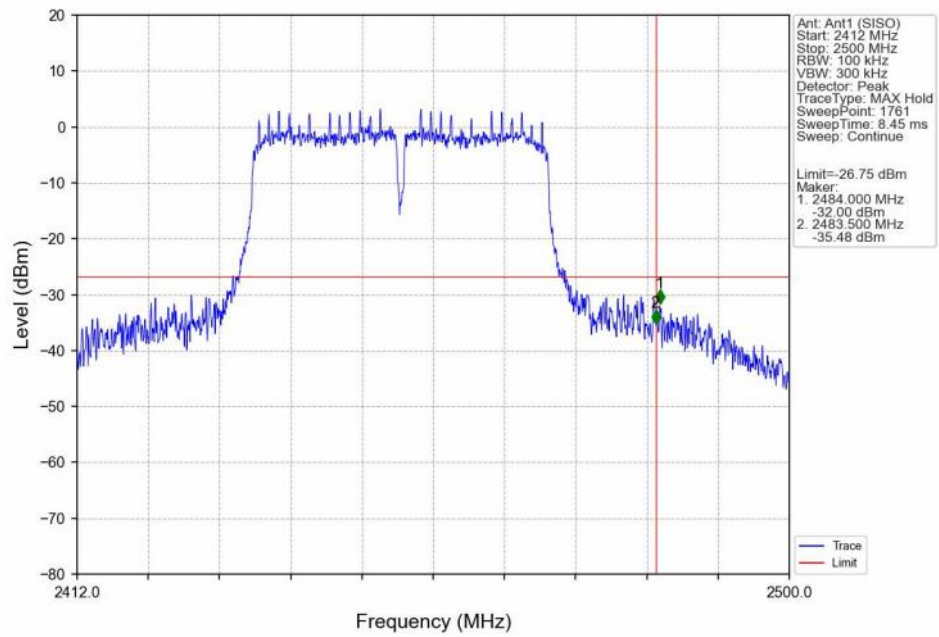
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

