

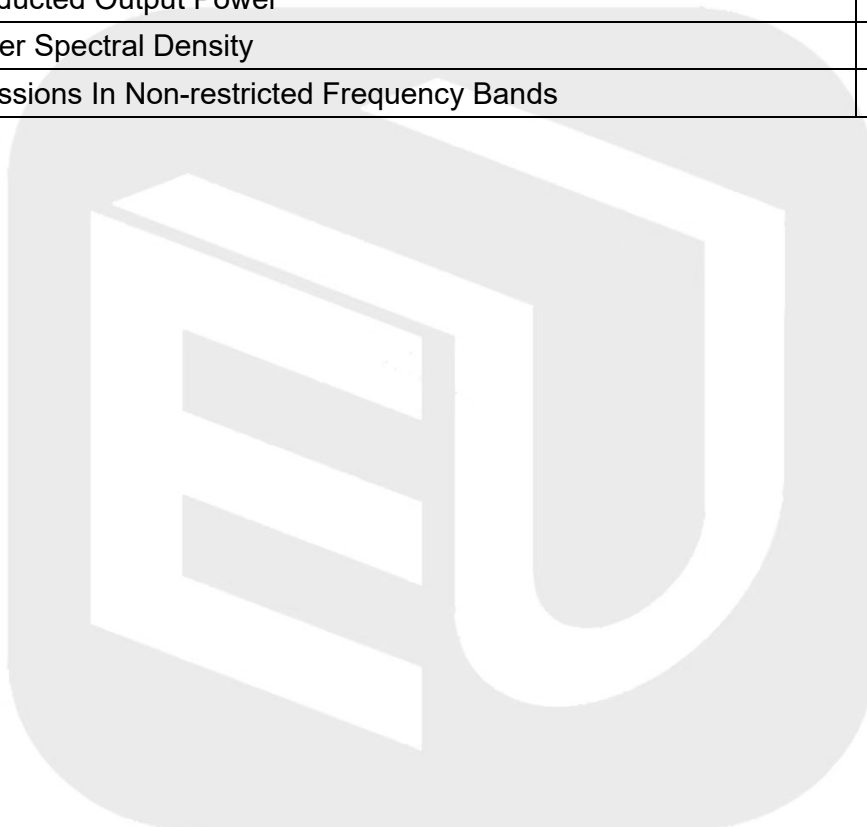
ANNEX F TEST DATA

For

Project No.:	8333EU011811W
Client:	SHENZHEN ELECTRON TECHNOLOGY CO., LTD.
Product Description:	Android Digital Signage
Model No.:	WL1539T
FCC ID:	2ABC5-E0102
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikey zhu</i>
Test Date:	2025-08-22

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

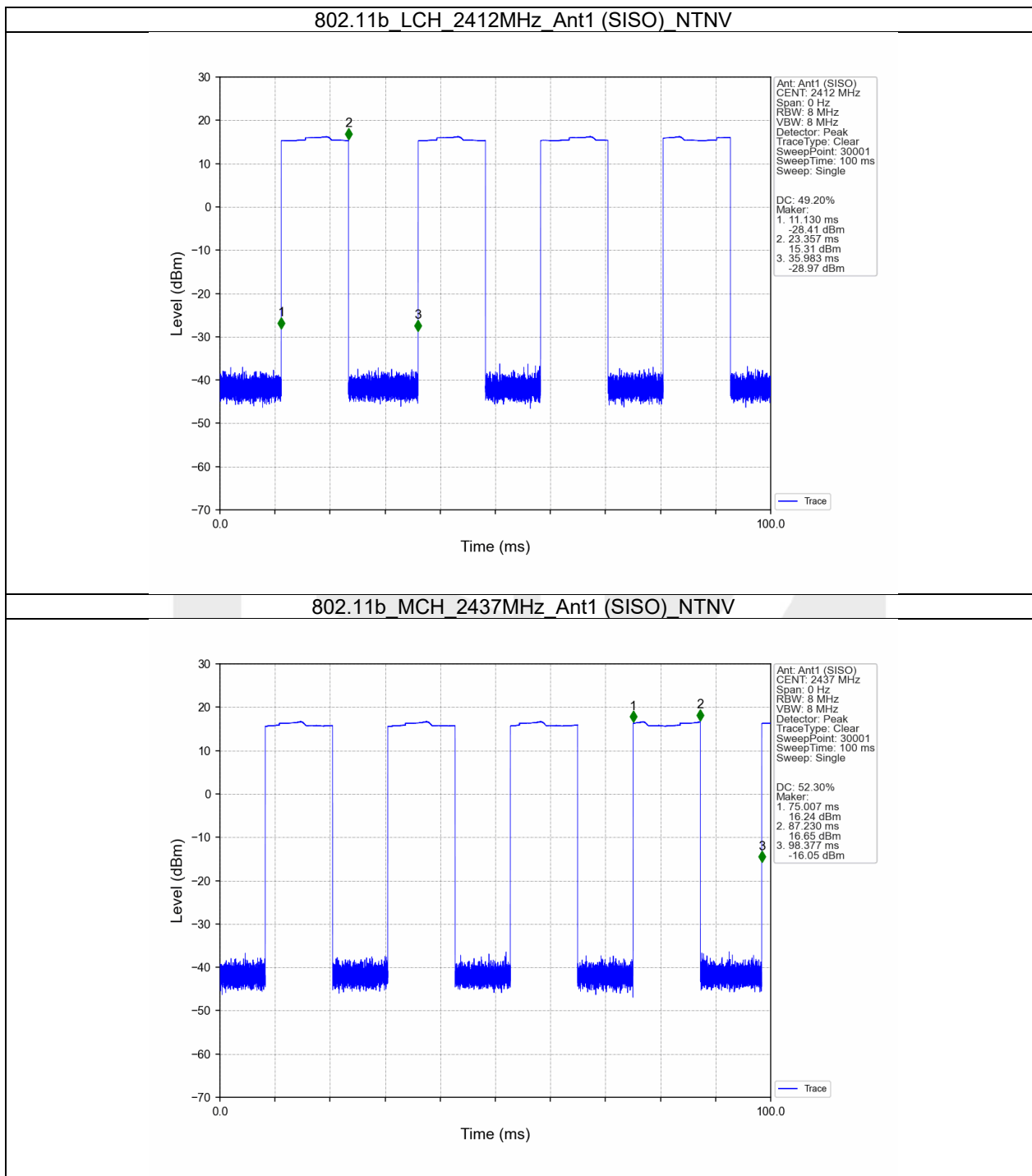
1.1 Test Result

1.1.1 Ant1

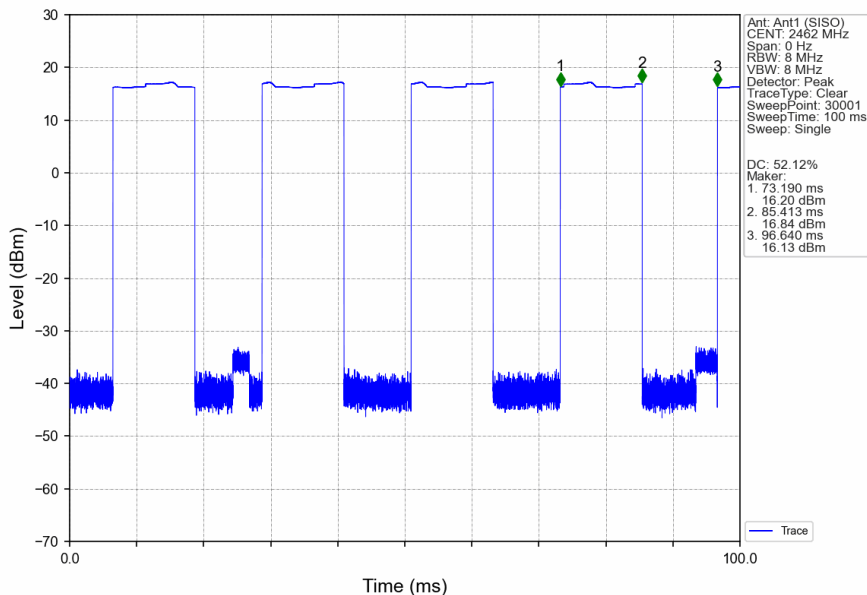
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	12.227	24.853	49.20	3.08	5.77
		2437	/	/	12.223	23.370	52.30	2.81	2.67
		2462	/	/	12.223	23.450	52.12	2.83	2.84
802.11g	SISO	2412	/	/	2.033	12.060	16.86	7.73	0.03
		2437	/	/	2.033	12.516	16.24	7.89	0.63
		2462	/	/	2.033	12.063	16.85	7.73	0.03
802.11n (HT20)	SISO	2412	/	/	1.893	13.216	14.32	8.44	1.59
		2437	/	/	1.894	12.934	14.64	8.34	1.27
		2462	/	/	1.894	11.920	15.89	7.99	0.03
802.11n (HT40)	SISO	2422	/	/	0.916	12.743	7.19	11.43	1.27
		2437	/	/	0.933	10.963	8.51	10.70	0.00
		2452	/	/	0.934	11.347	8.23	10.85	0.30
802.11ax (HEW20)	SISO	2412	SU	/	1.464	13.504	10.84	9.65	1.91
		2437	SU	/	1.463	13.663	10.71	9.70	2.03
		2462	SU	/	1.460	11.510	12.68	8.97	0.05
802.11ax (HEW40)	SISO	2422	SU	/	0.763	13.073	5.84	12.34	1.25
		2437	SU	/	0.764	10.857	7.04	11.53	0.05
		2452	SU	/	0.763	12.047	6.33	11.98	0.75

1.2 Test Graph

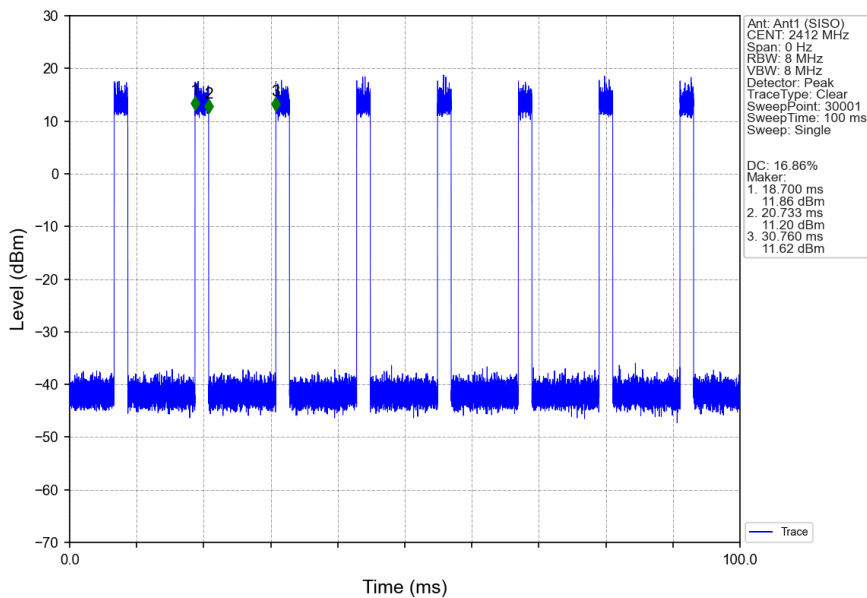
1.2.1 Ant1



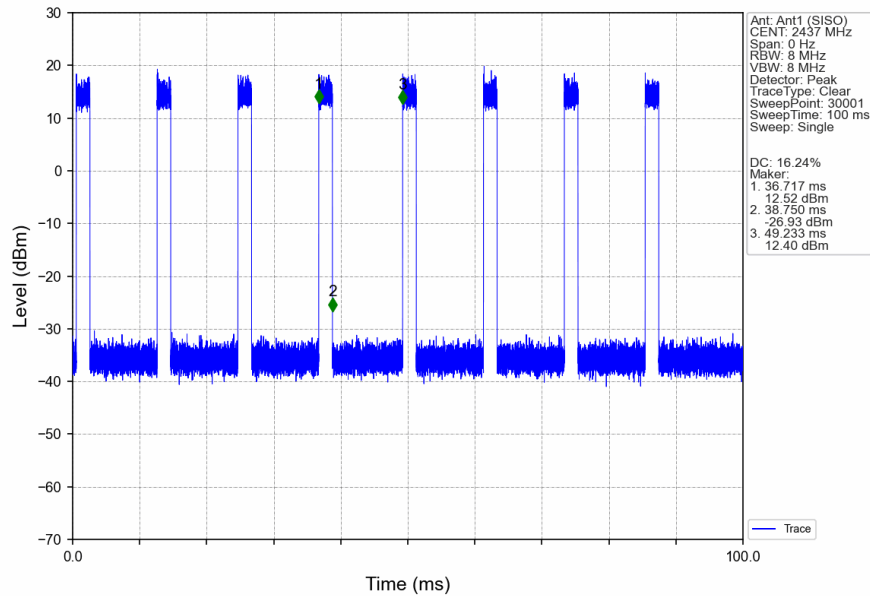
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



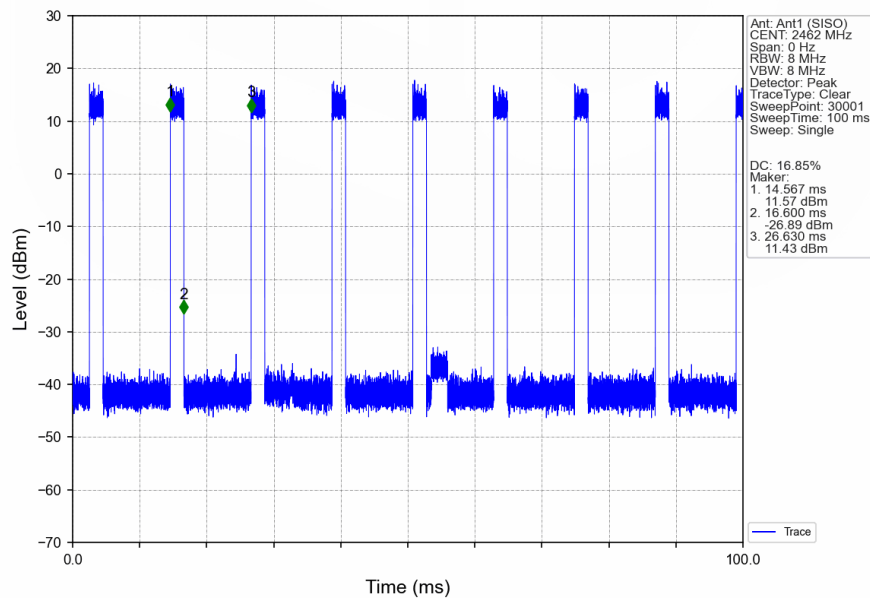
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



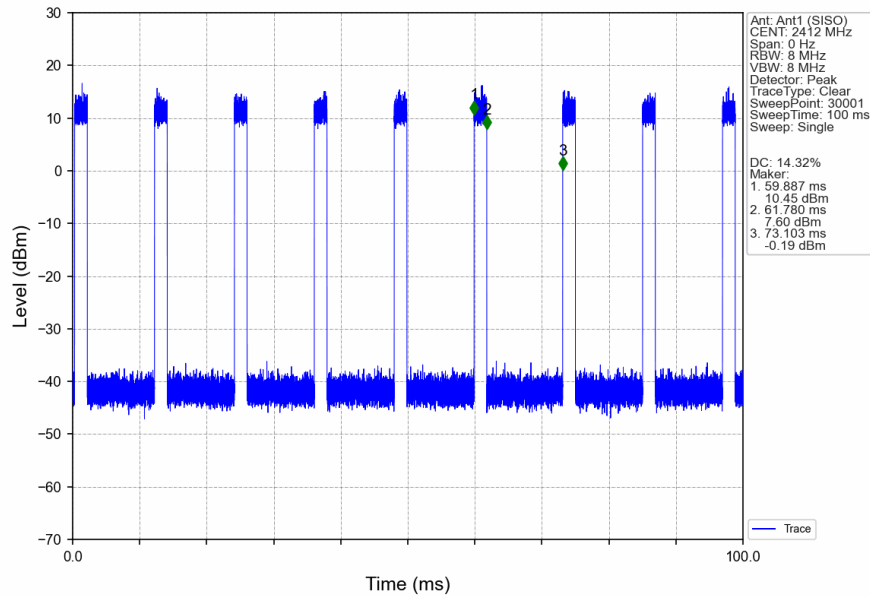
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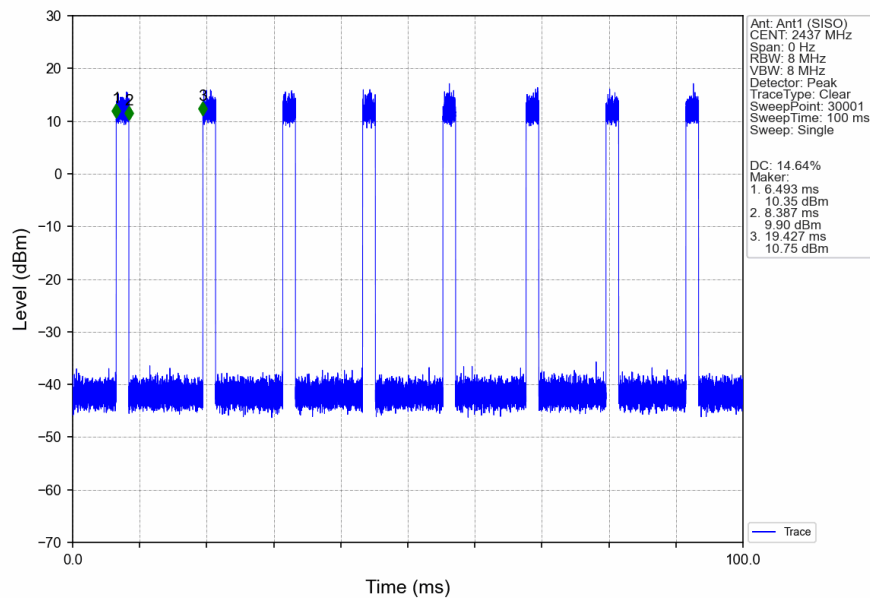
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



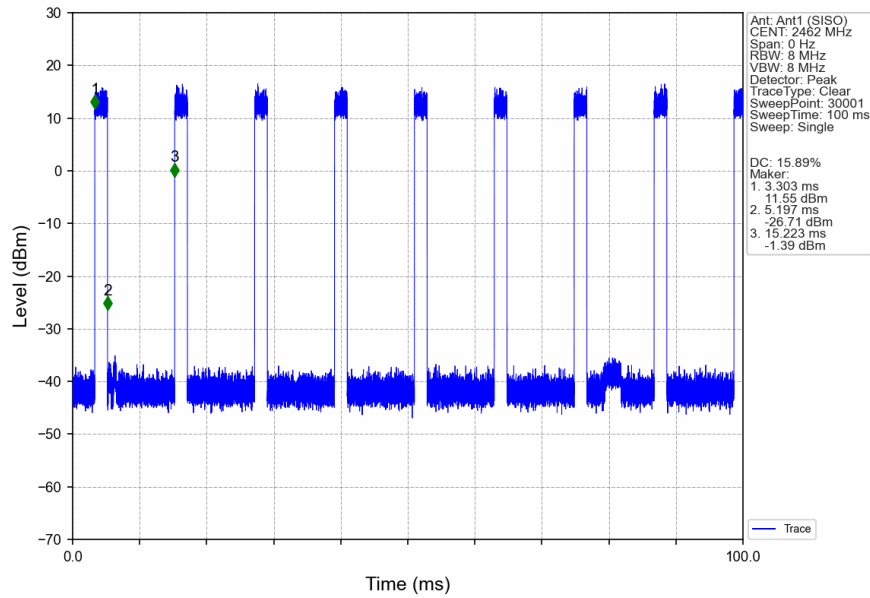
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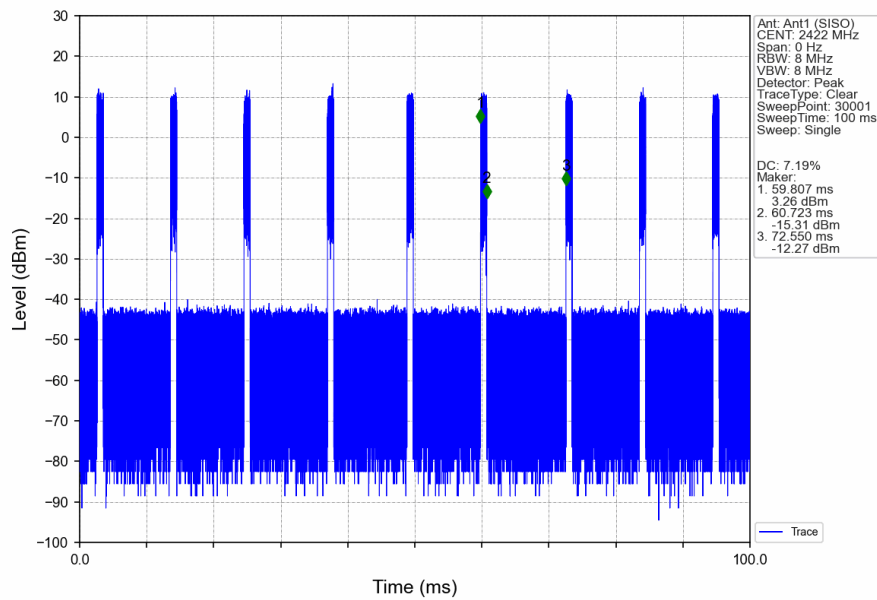
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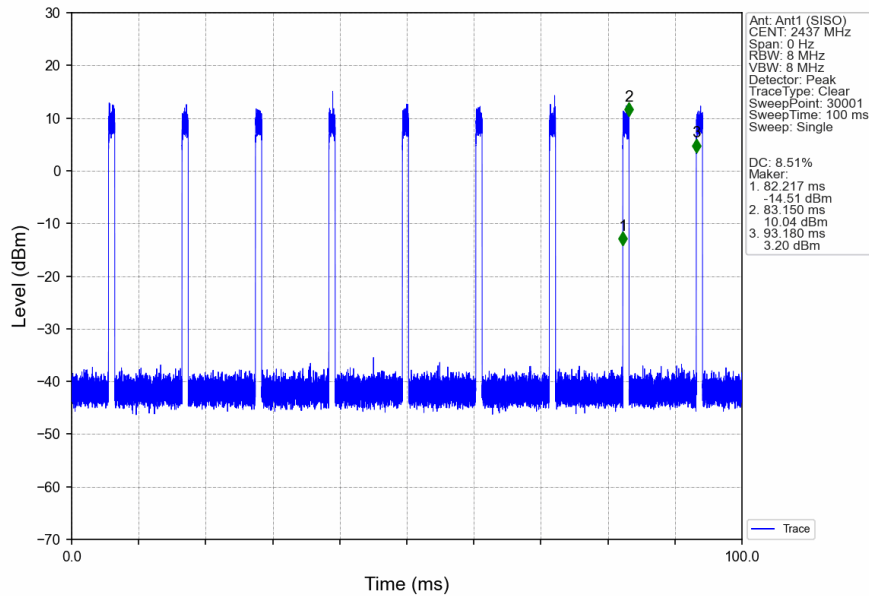
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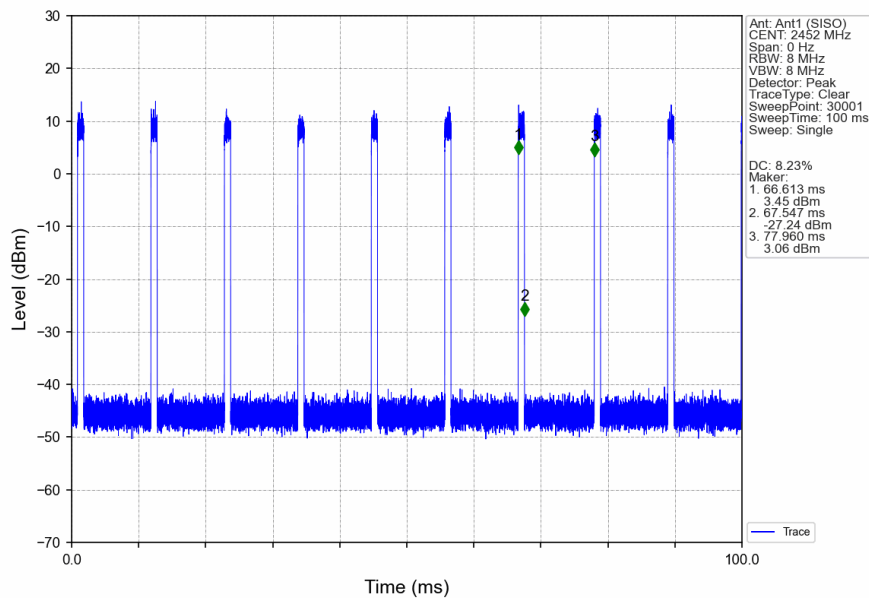
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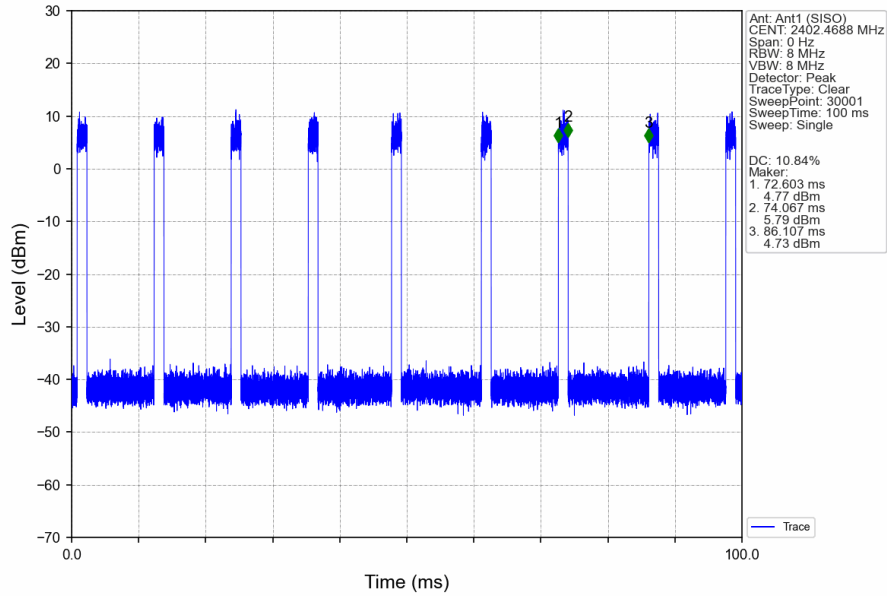
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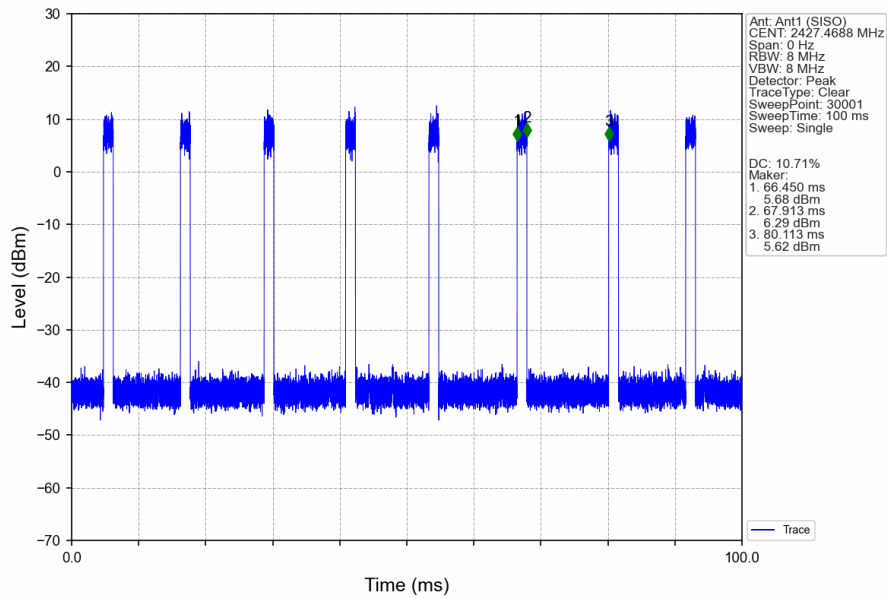
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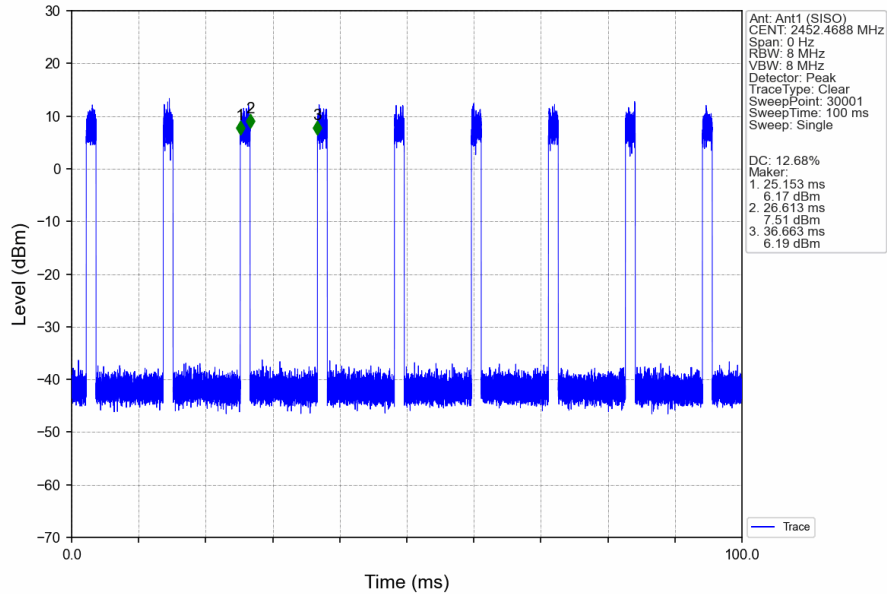
802.11ax(HEW20)_LCH_2412MHz_SU_ / _Ant1 (SISO)_NTNV



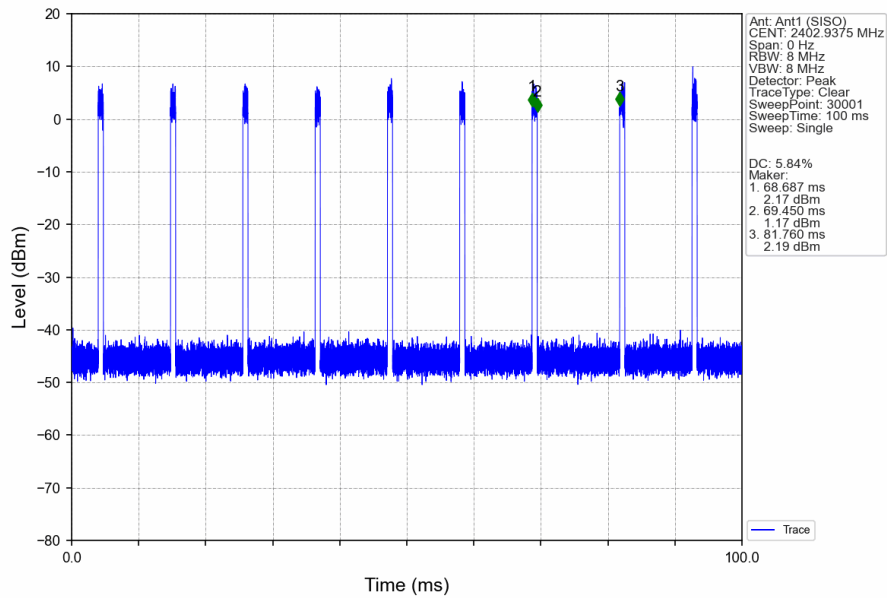
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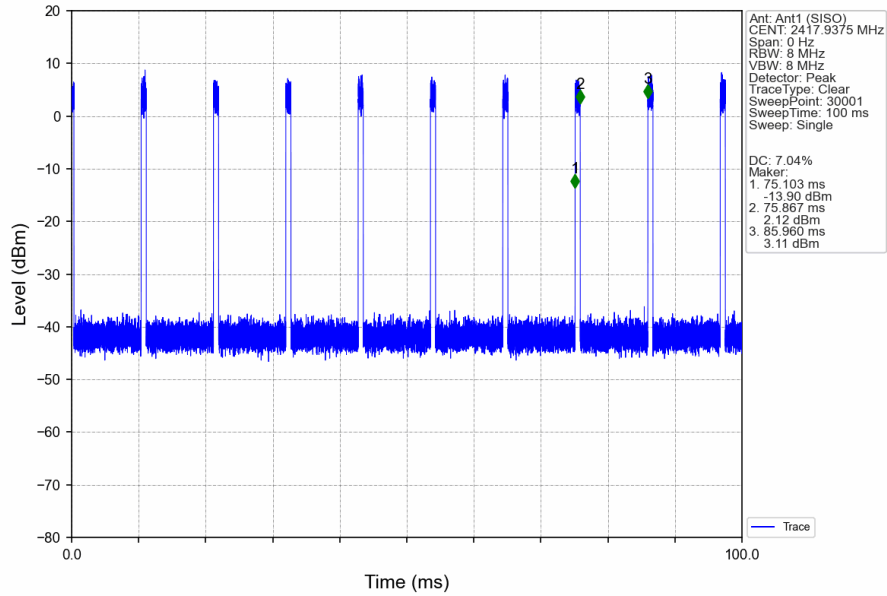
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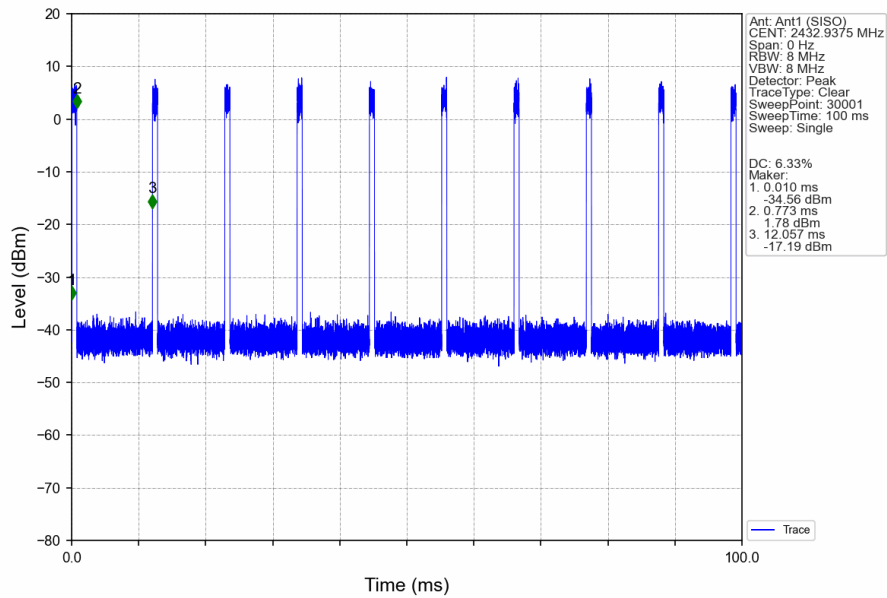
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	13.050	/	Pass
		2437	/	/	1	13.041	/	Pass
		2462	/	/	1	13.041	/	Pass
802.11g	SISO	2412	/	/	1	18.142	/	Pass
		2437	/	/	1	18.172	/	Pass
		2462	/	/	1	18.264	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	19.251	/	Pass
		2437	/	/	1	19.078	/	Pass
		2462	/	/	1	19.080	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	37.052	/	Pass
		2437	/	/	1	36.974	/	Pass
		2452	/	/	1	36.984	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	19.538	/	Pass
		2437	SU	/	1	19.539	/	Pass
		2462	SU	/	1	19.628	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	38.174	/	Pass
		2437	SU	/	1	38.198	/	Pass
		2452	SU	/	1	38.406	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.234	≥ 0.5	Pass
		2437	/	/	1	9.237	≥ 0.5	Pass
		2462	/	/	1	9.234	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	16.596	≥ 0.5	Pass
		2437	/	/	1	16.595	≥ 0.5	Pass
		2462	/	/	1	16.281	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.689	≥ 0.5	Pass
		2437	/	/	1	17.881	≥ 0.5	Pass
		2462	/	/	1	17.640	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.970	≥ 0.5	Pass
		2437	/	/	1	35.982	≥ 0.5	Pass
		2452	/	/	1	35.617	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.802	≥ 0.5	Pass
		2437	SU	/	1	18.761	≥ 0.5	Pass
		2462	SU	/	1	18.497	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.438	≥ 0.5	Pass
		2437	SU	/	1	37.313	≥ 0.5	Pass
		2452	SU	/	1	37.276	≥ 0.5	Pass



SHENZHEN EU TESTING LABORATORY LIMITED

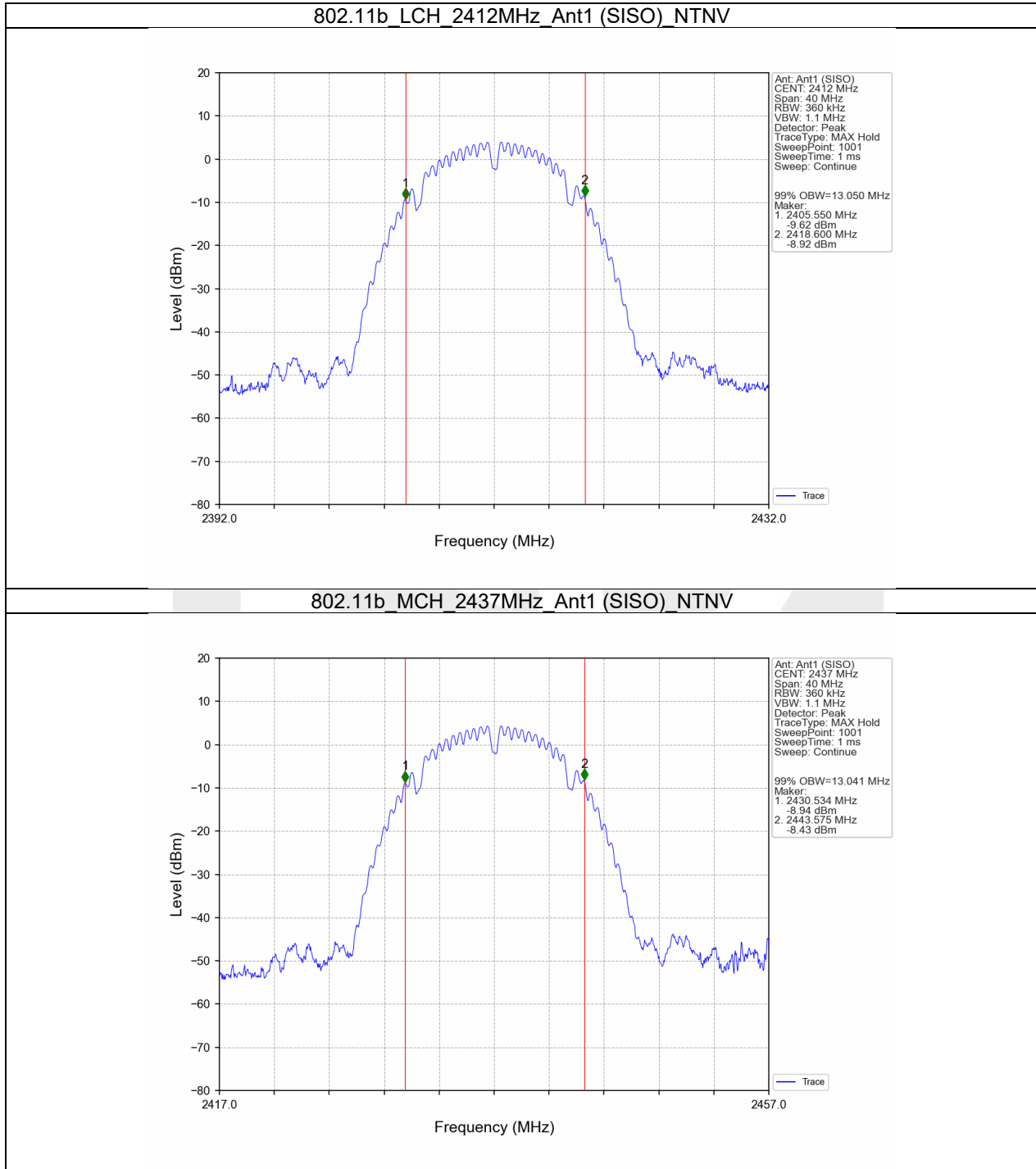
Address: 101, Building B1, Fuqiao Fourth Area, Qiaotou Community,
Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China

Website: www.eu-test.com

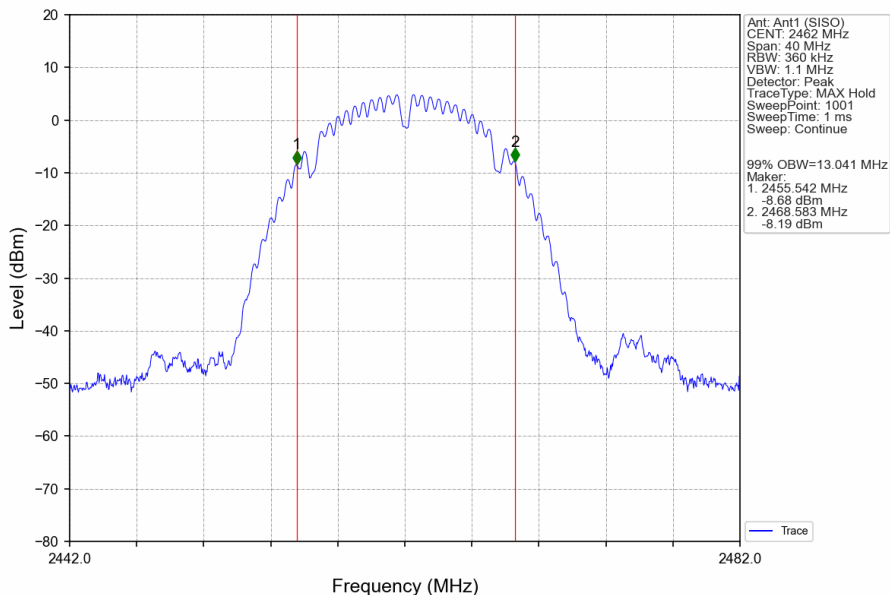
Tel: (86)-755-2357-9714 Email: Service@eu-test.com

2.2 Test Graph

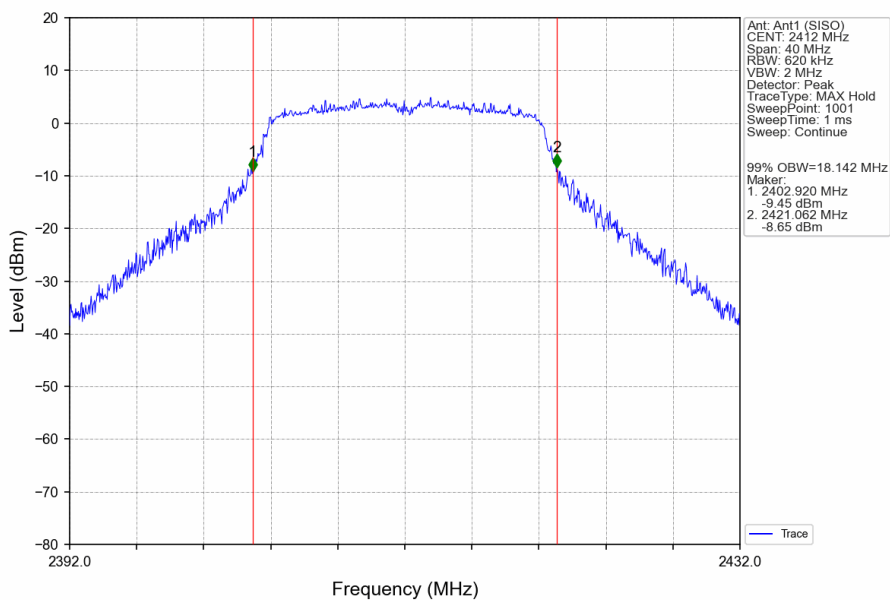
2.2.1 OBW



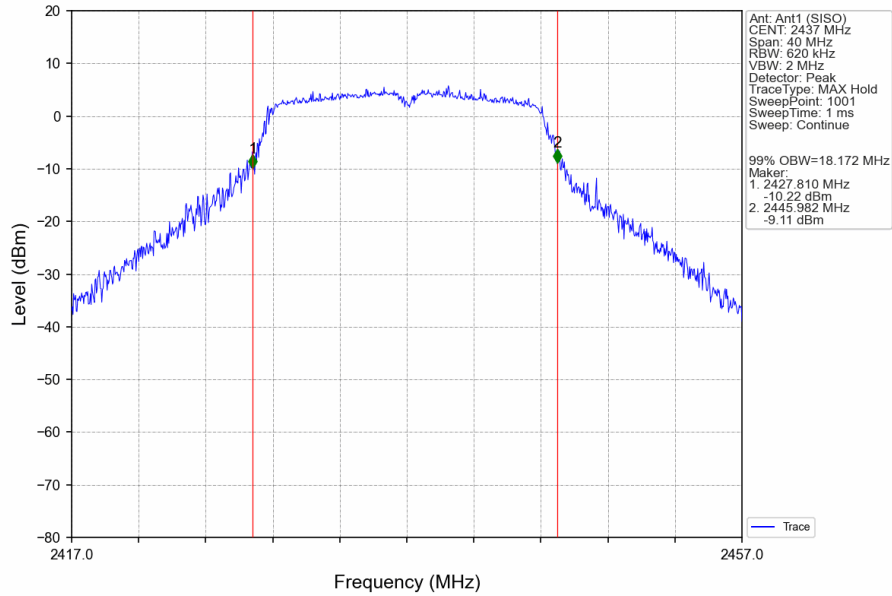
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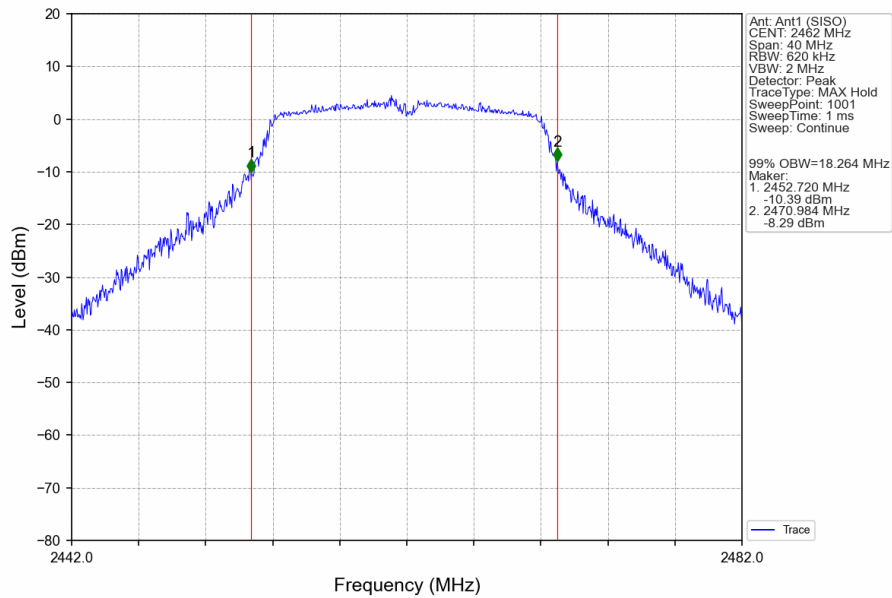
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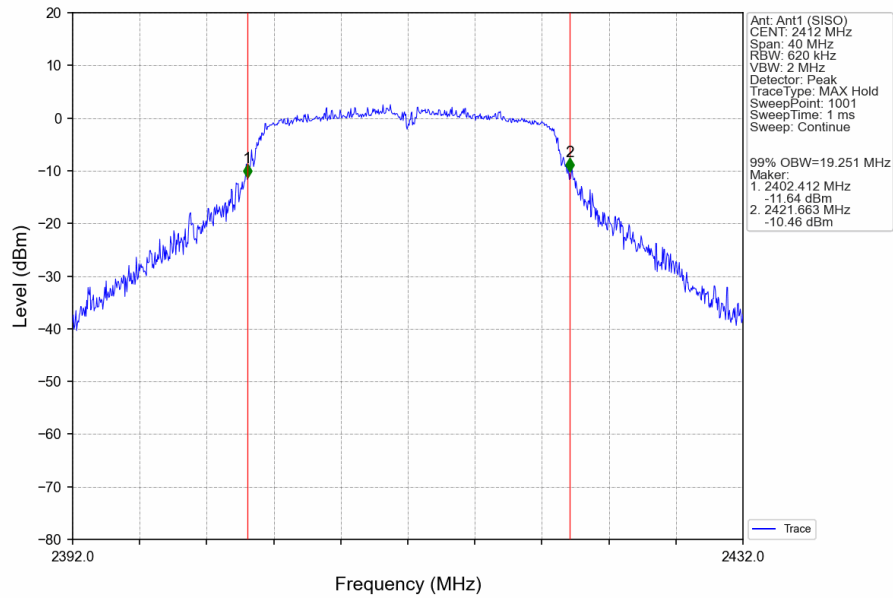
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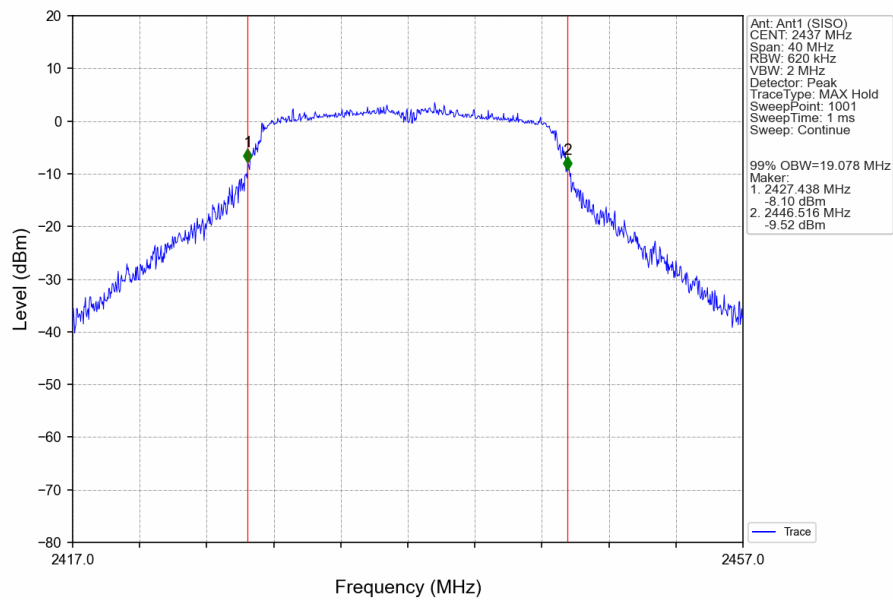
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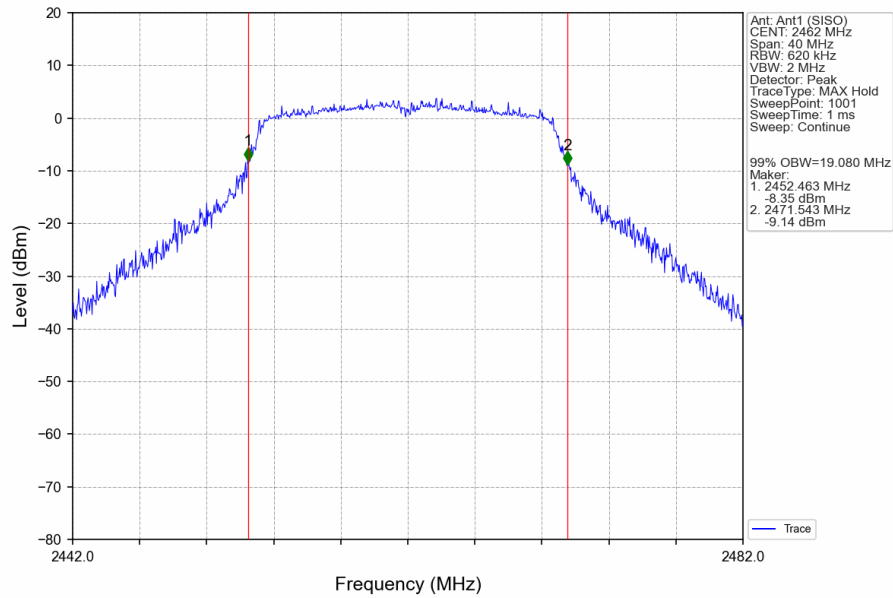
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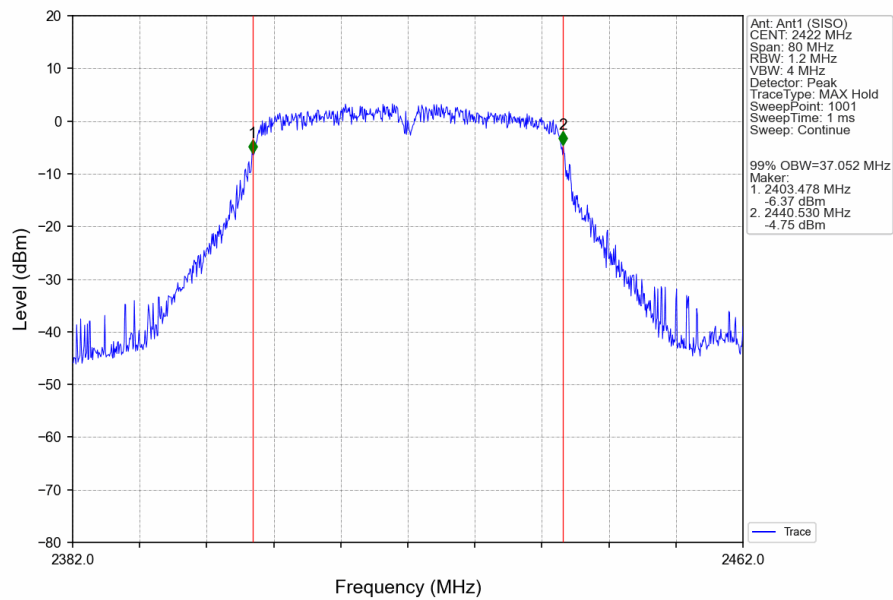
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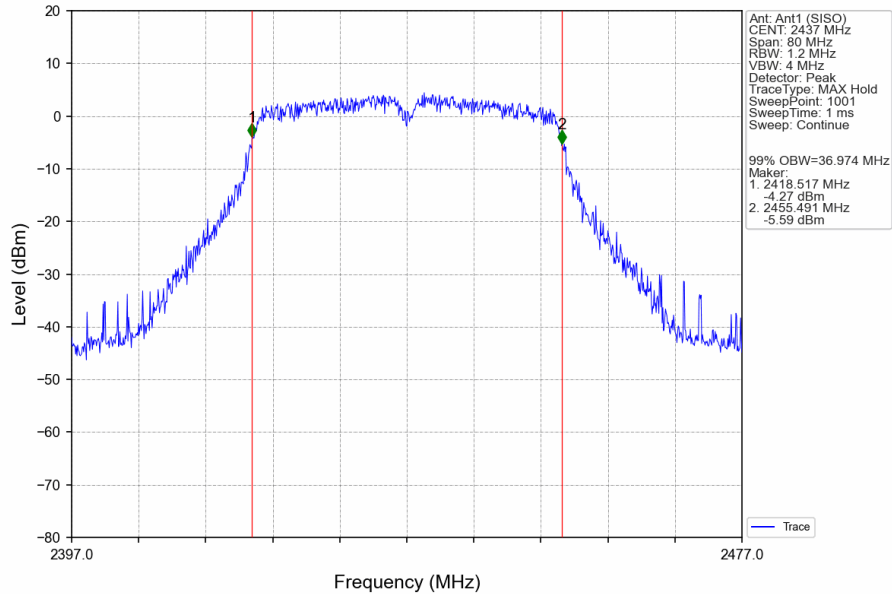
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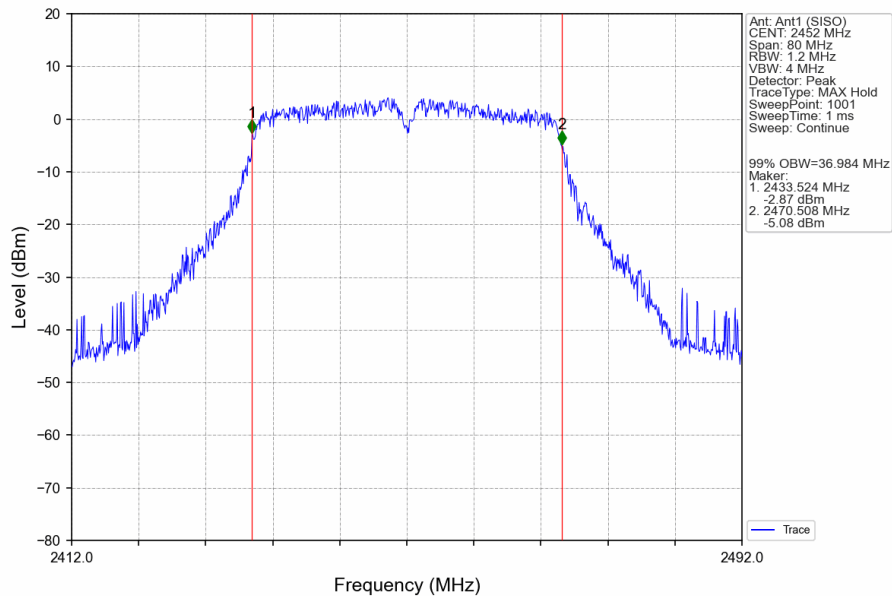
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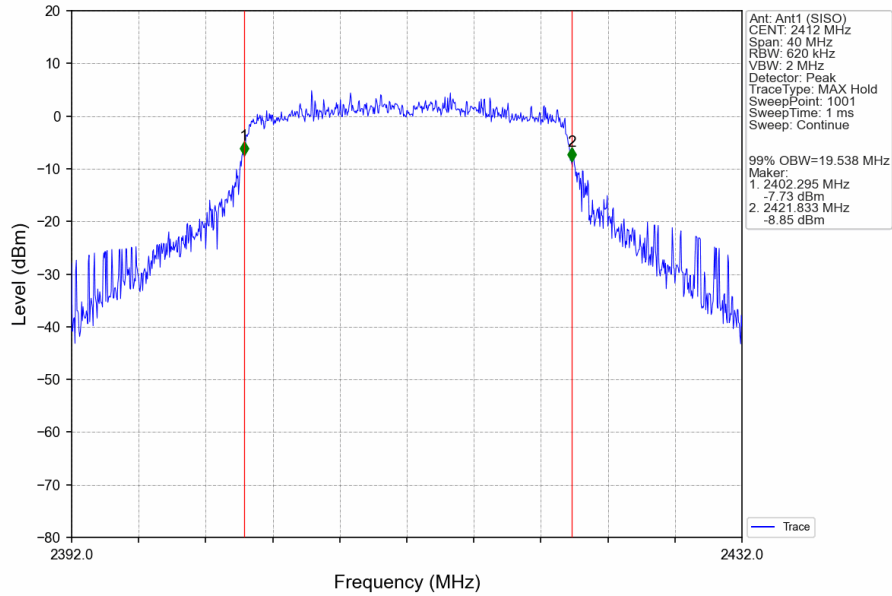
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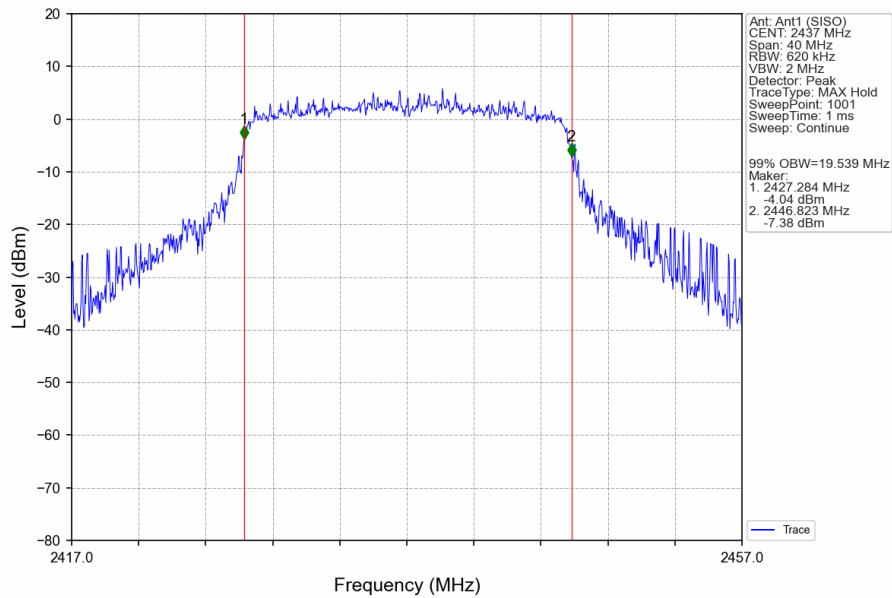
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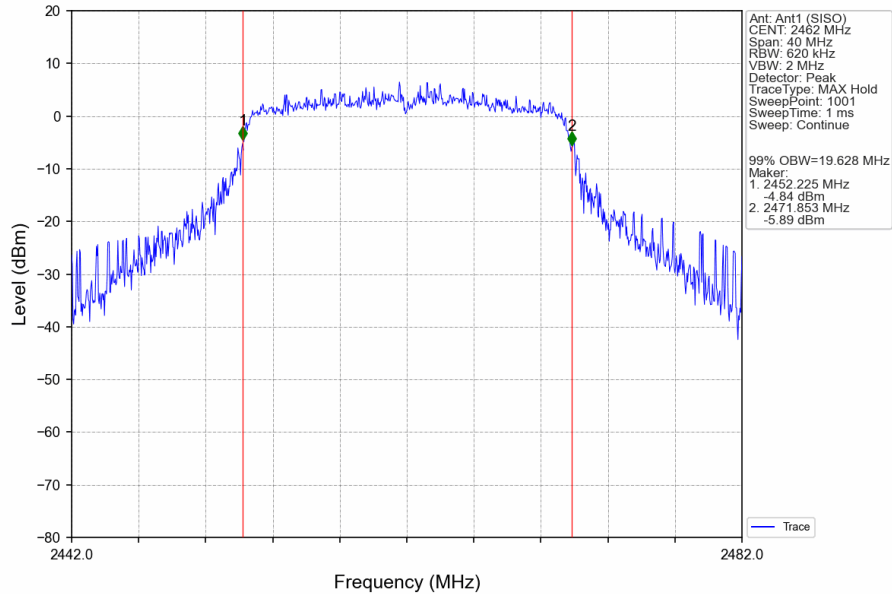
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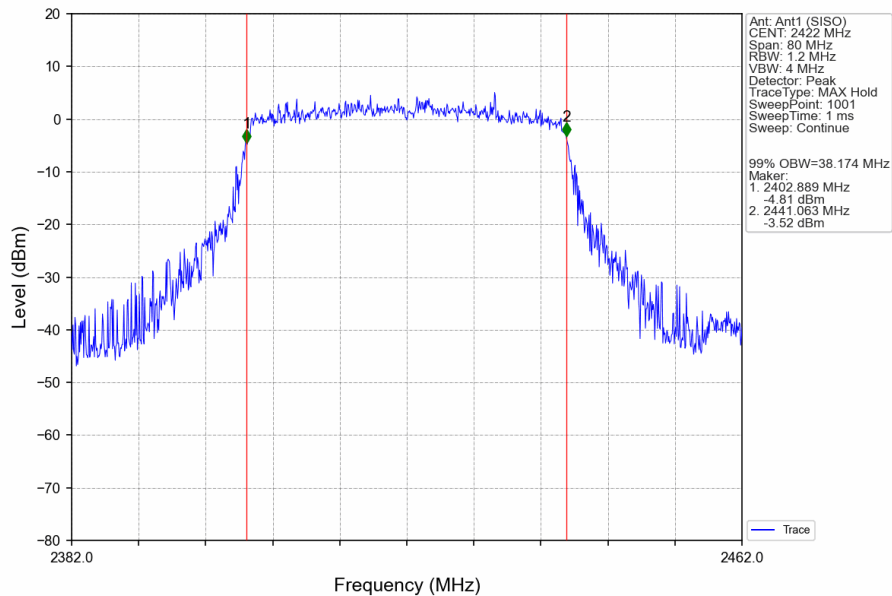
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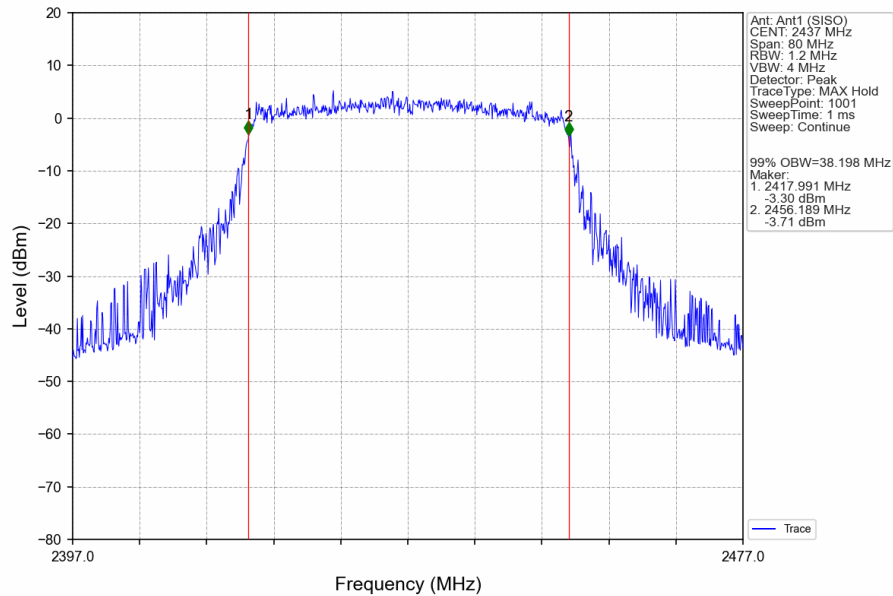
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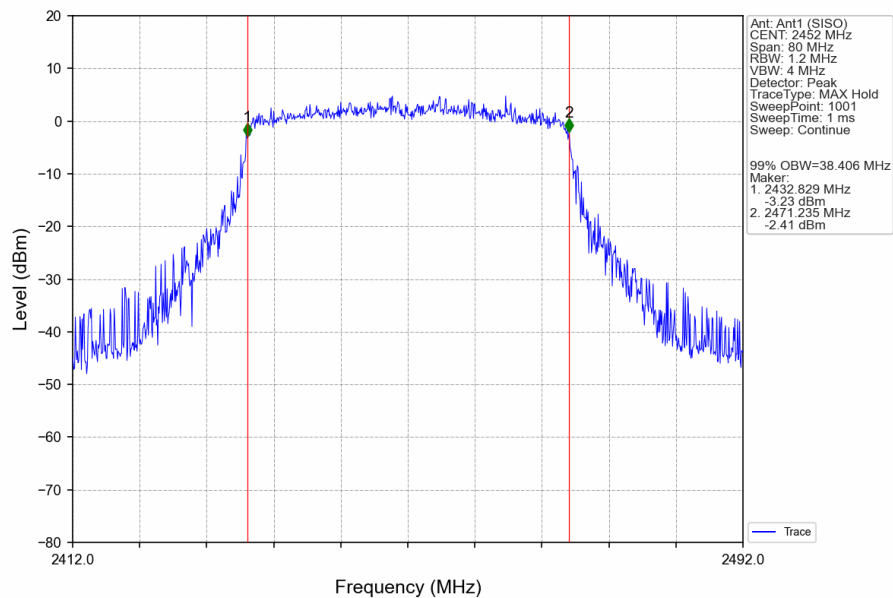
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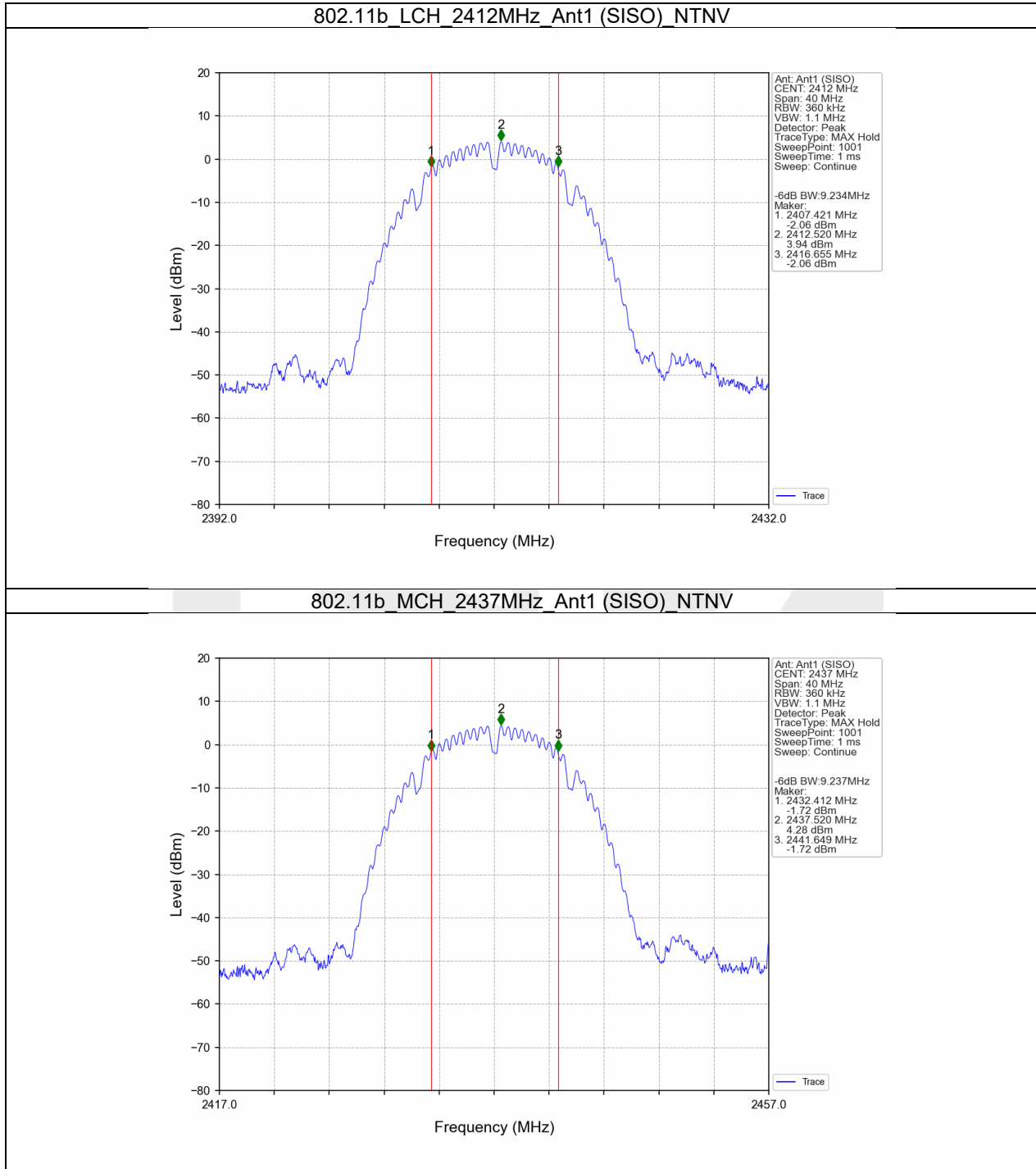
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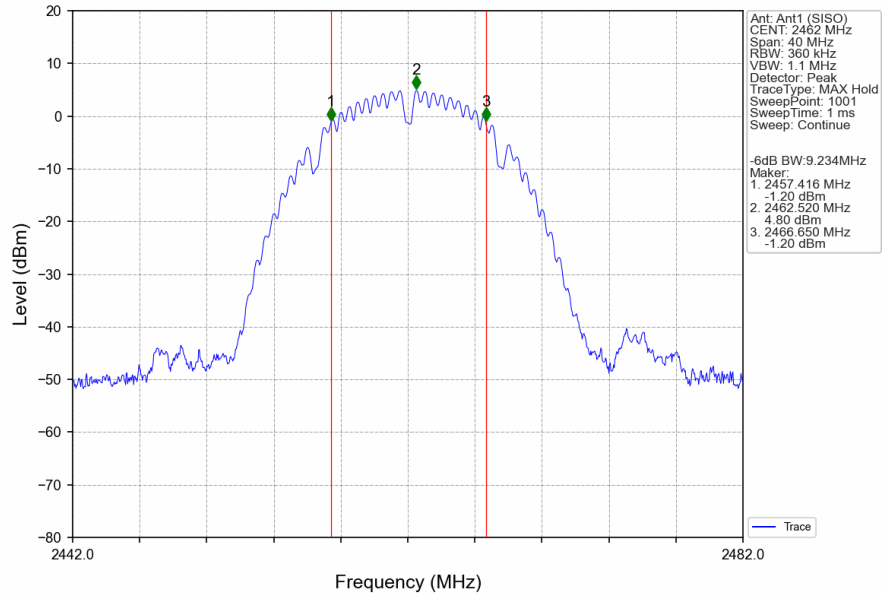
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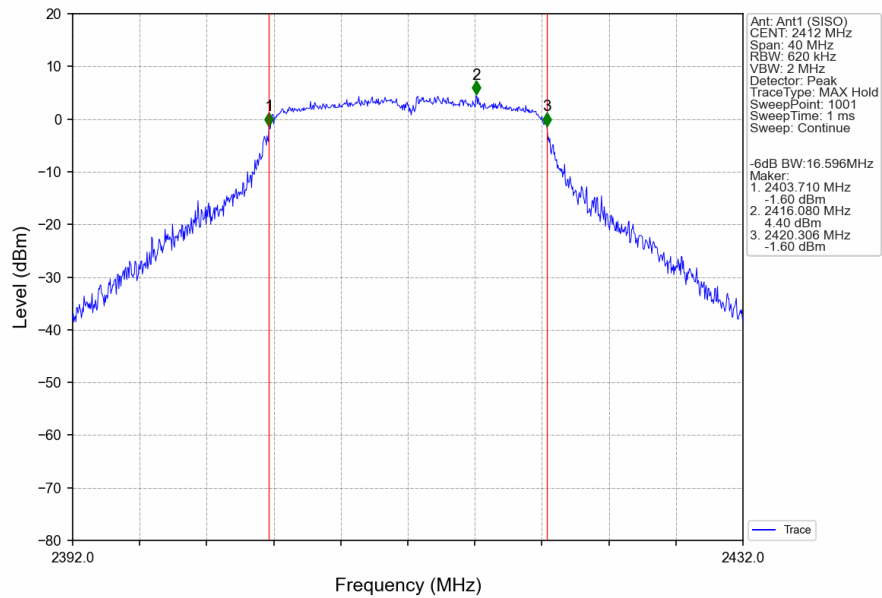
2.2.2 6dB BW



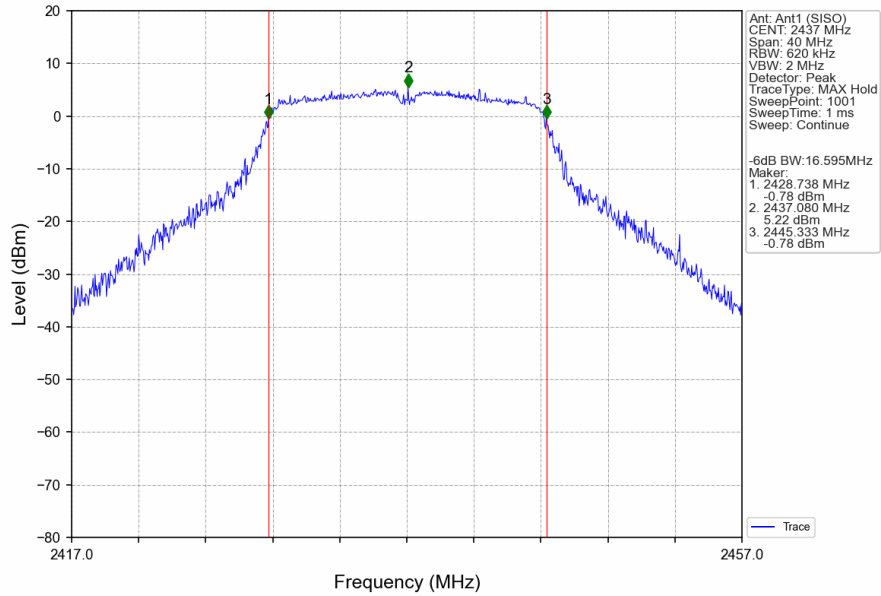
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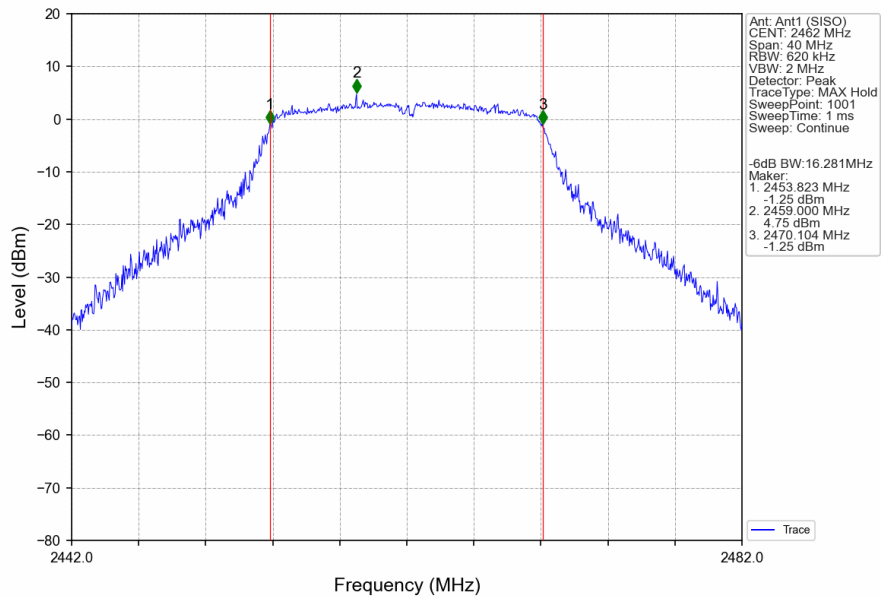
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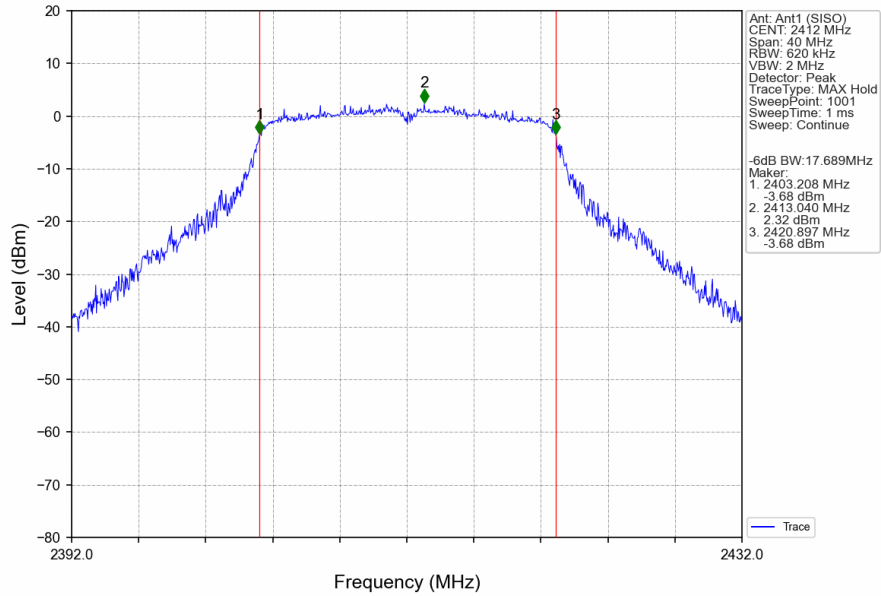
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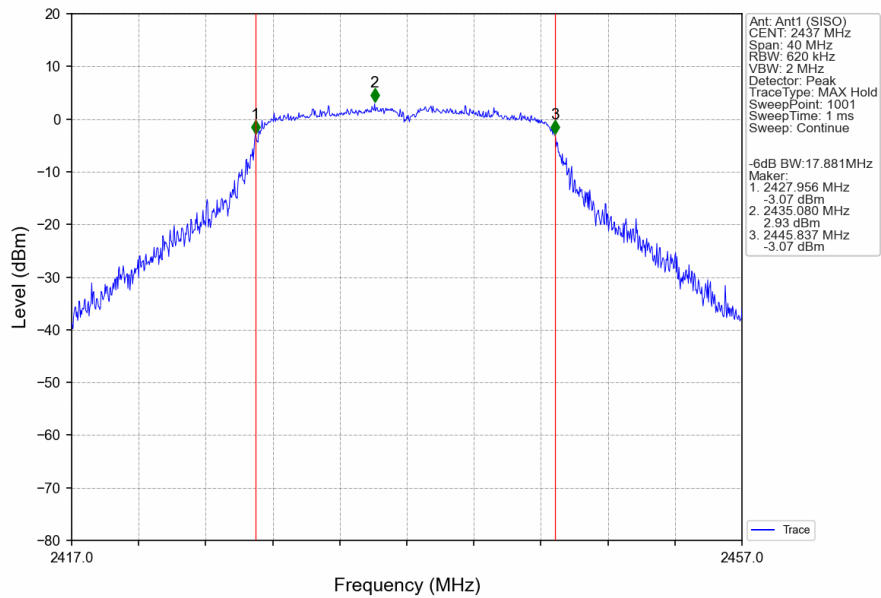
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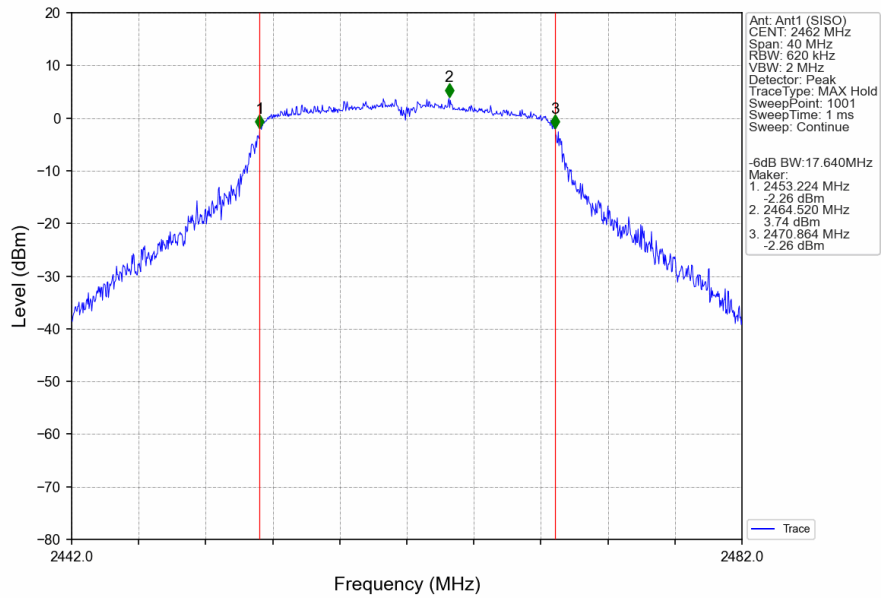
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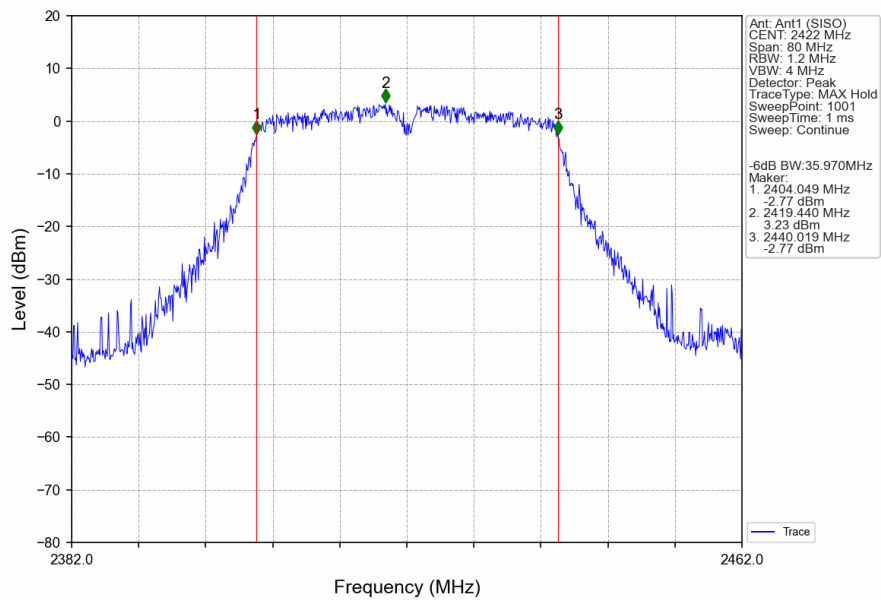
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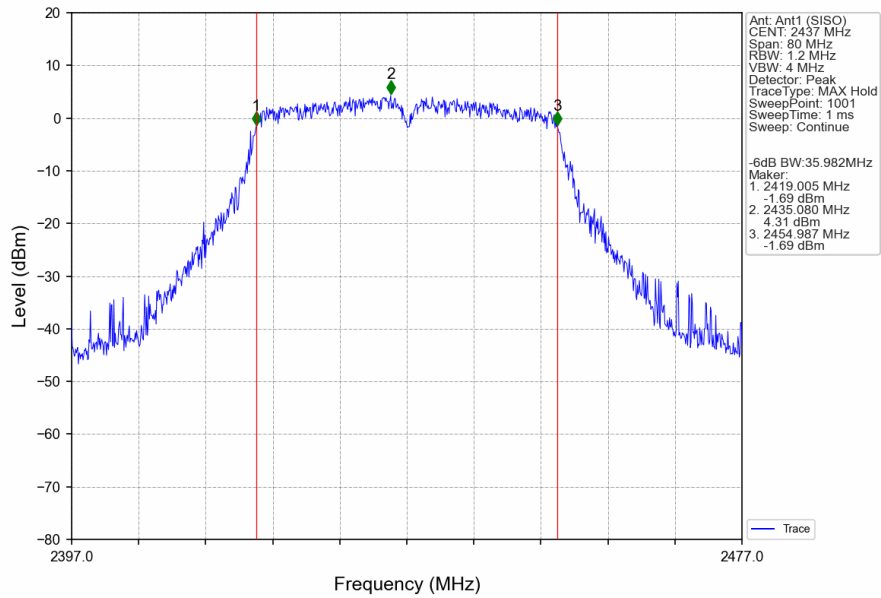
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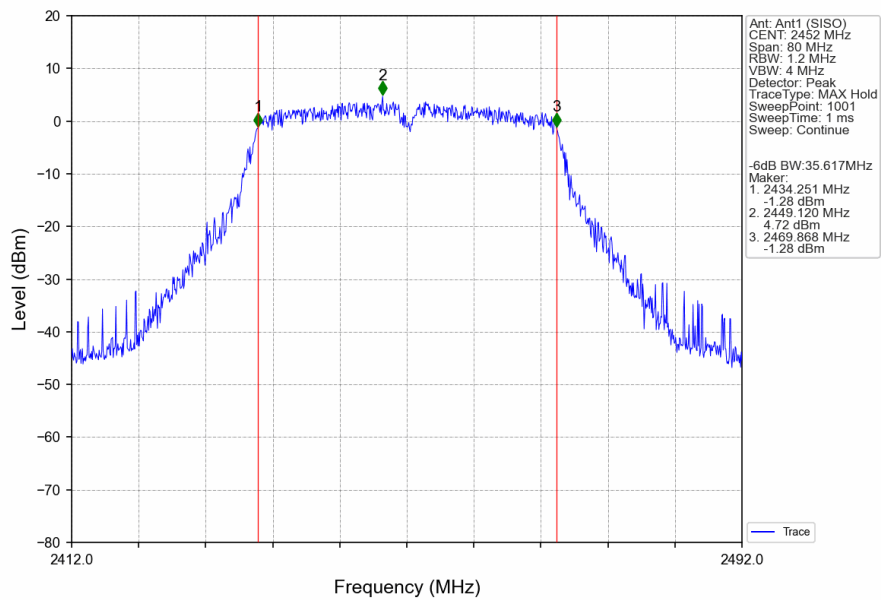
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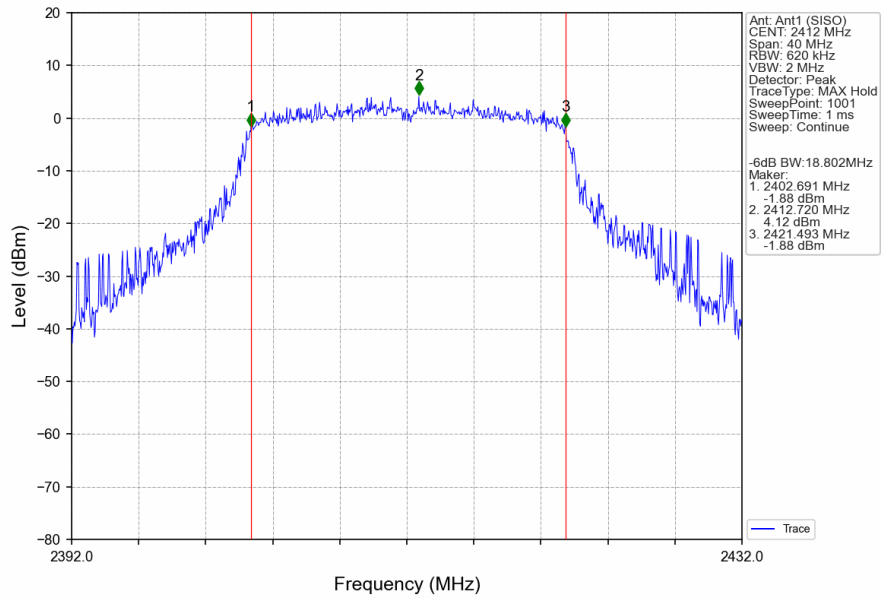
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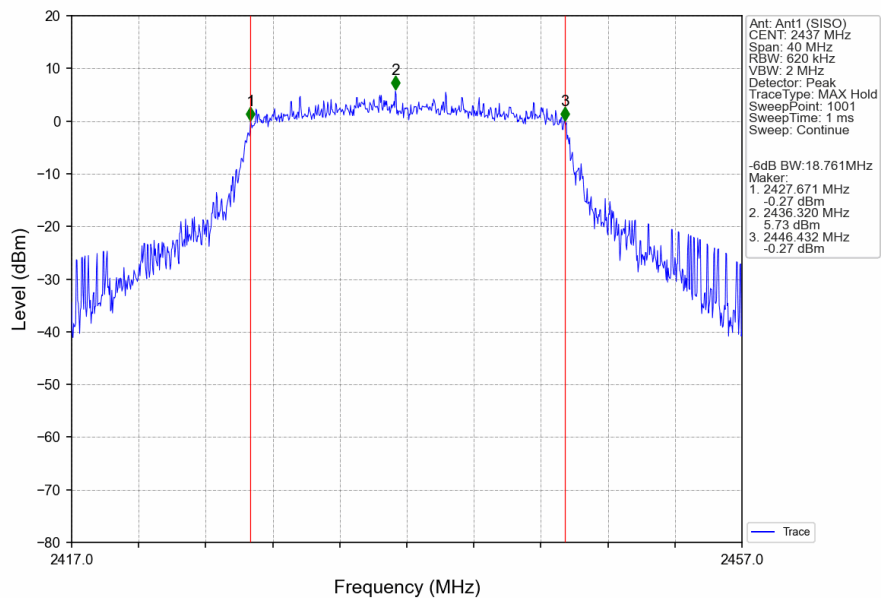
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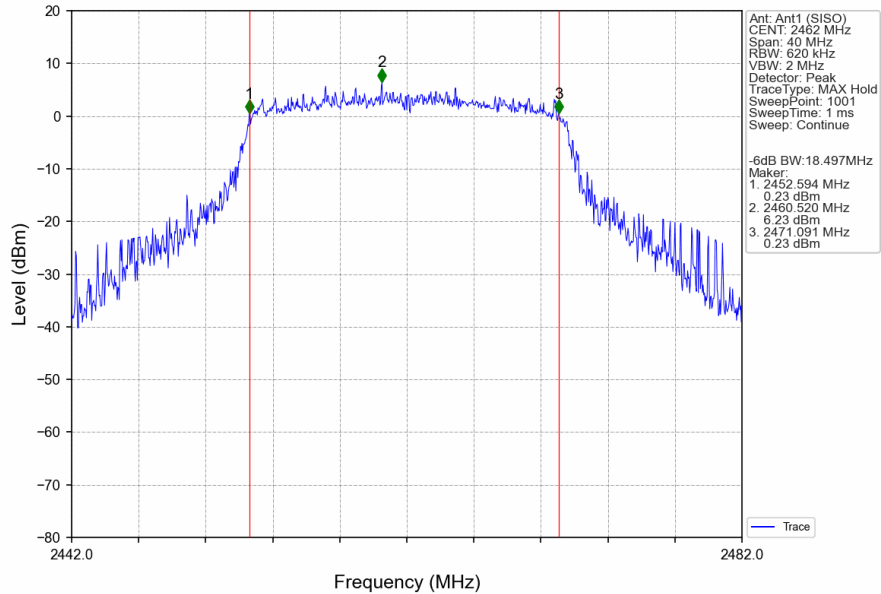
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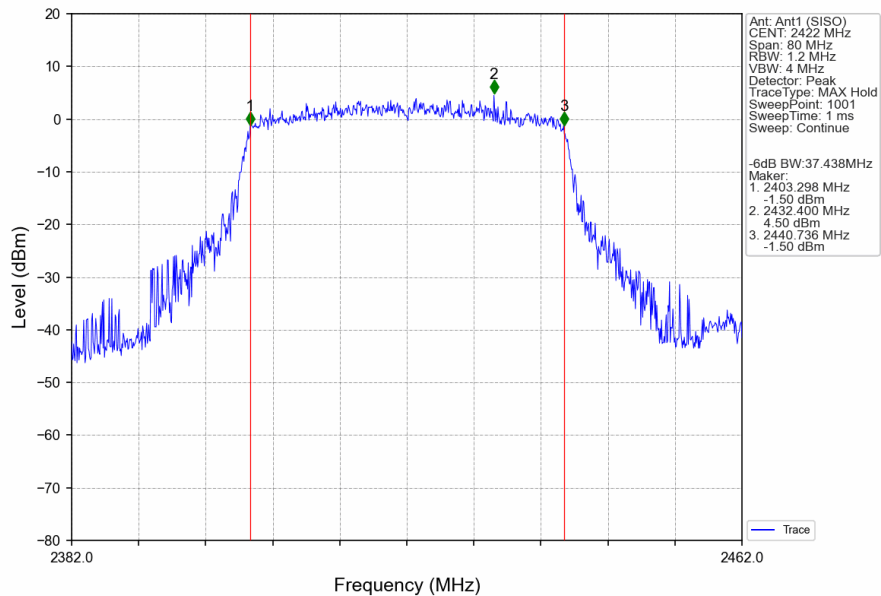
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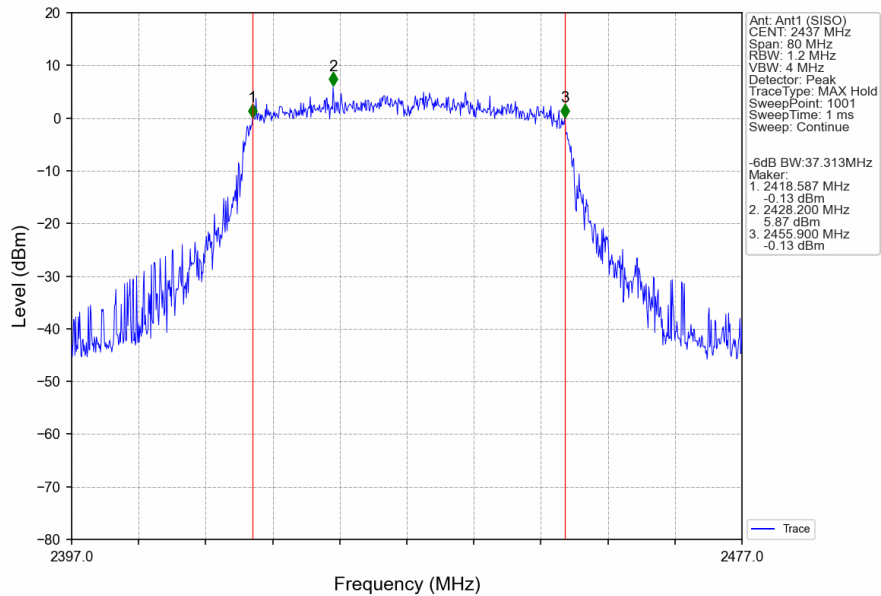
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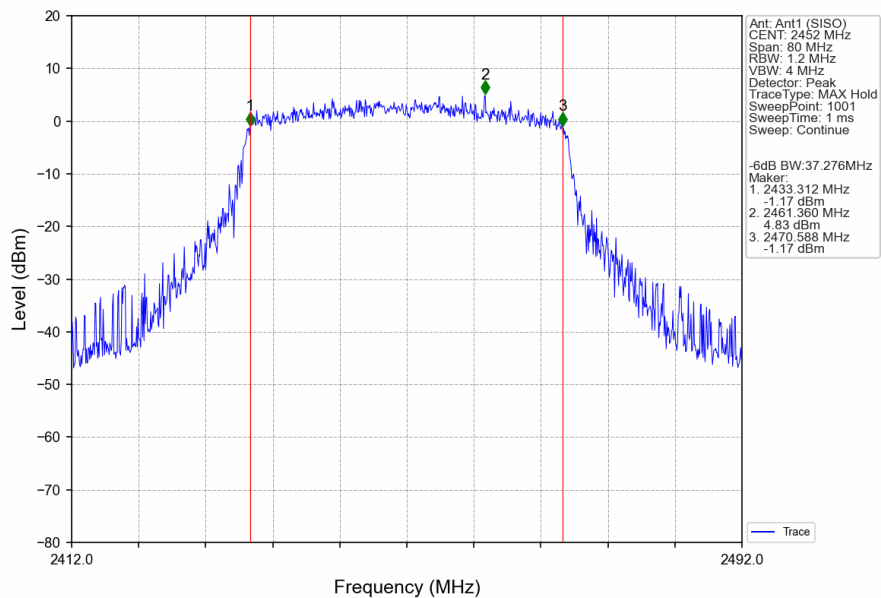
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU / Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	14.57	<=30	Pass
		2437	/	/	14.93	<=30	Pass
		2462	/	/	15.46	<=30	Pass
802.11g	SISO	2412	/	/	17.56	<=30	Pass
		2437	/	/	18.35	<=30	Pass
		2462	/	/	16.88	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	15.40	<=30	Pass
		2437	/	/	16.19	<=30	Pass
		2462	/	/	16.72	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	14.93	<=30	Pass
		2437	/	/	15.75	<=30	Pass
		2452	/	/	15.62	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	15.94	<=30	Pass
		2437	SU	/	16.61	<=30	Pass
		2462	SU	/	17.30	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	15.41	<=30	Pass
		2437	SU	/	16.14	<=30	Pass
		2452	SU	/	16.00	<=30	Pass

4. Maximum Power Spectral Density

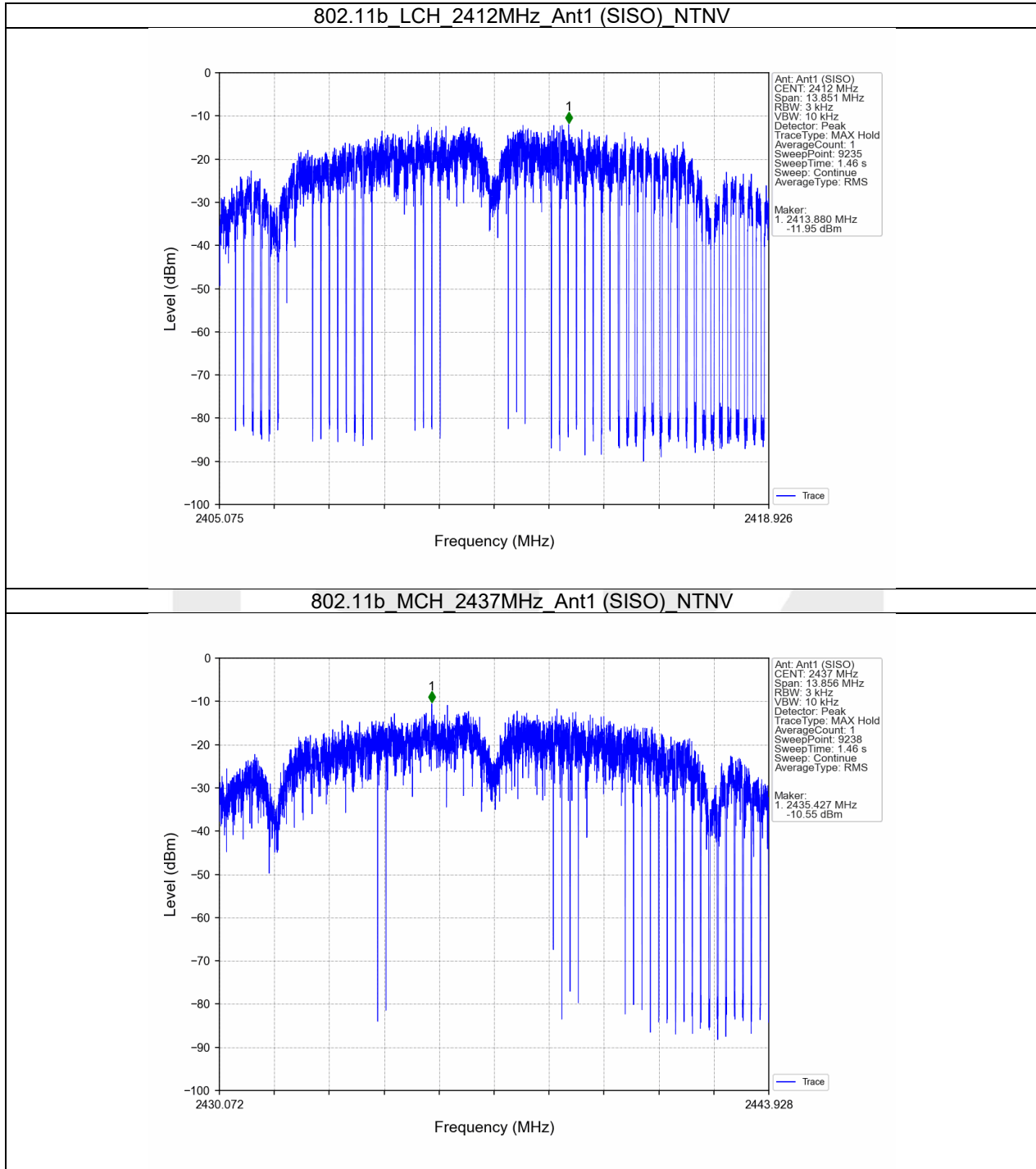
4.1 Test Result

4.1.1 PSD

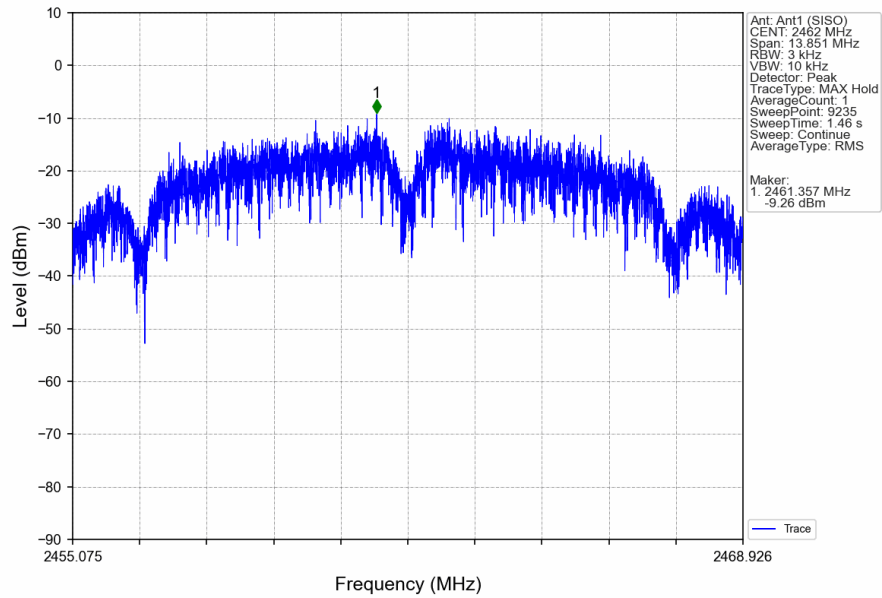
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-11.95	<=8	Pass
		2437	/	/	-10.55	<=8	Pass
		2462	/	/	-9.26	<=8	Pass
802.11g	SISO	2412	/	/	-14.56	<=8	Pass
		2437	/	/	-14.04	<=8	Pass
		2462	/	/	-14.79	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-16.84	<=8	Pass
		2437	/	/	-16.75	<=8	Pass
		2462	/	/	-15.70	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-18.08	<=8	Pass
		2437	/	/	-17.30	<=8	Pass
		2452	/	/	-18.20	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-17.14	<=8	Pass
		2437	SU	/	-16.87	<=8	Pass
		2462	SU	/	-15.67	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	-19.65	<=8	Pass
		2437	SU	/	-17.87	<=8	Pass
		2452	SU	/	-19.44	<=8	Pass

4.2 Test Graph

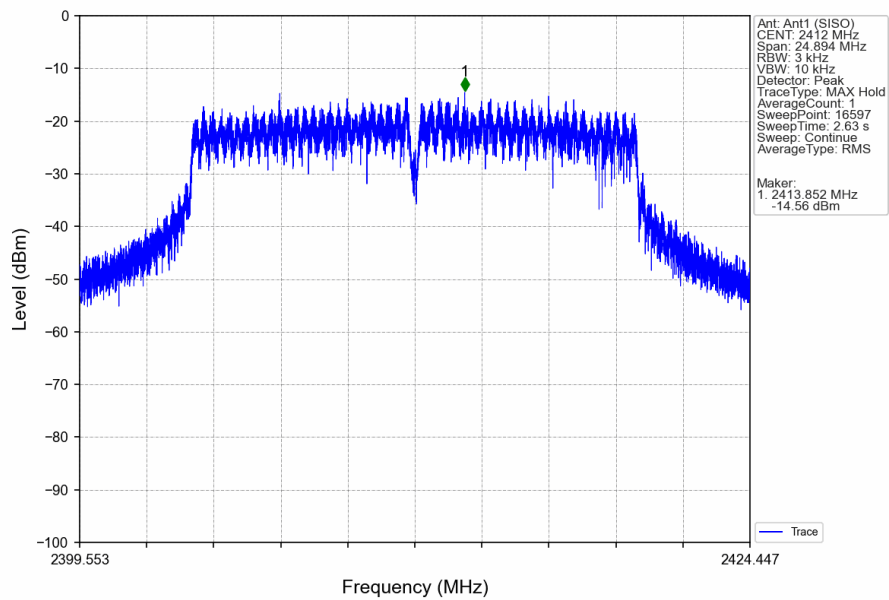
4.2.1 PSD



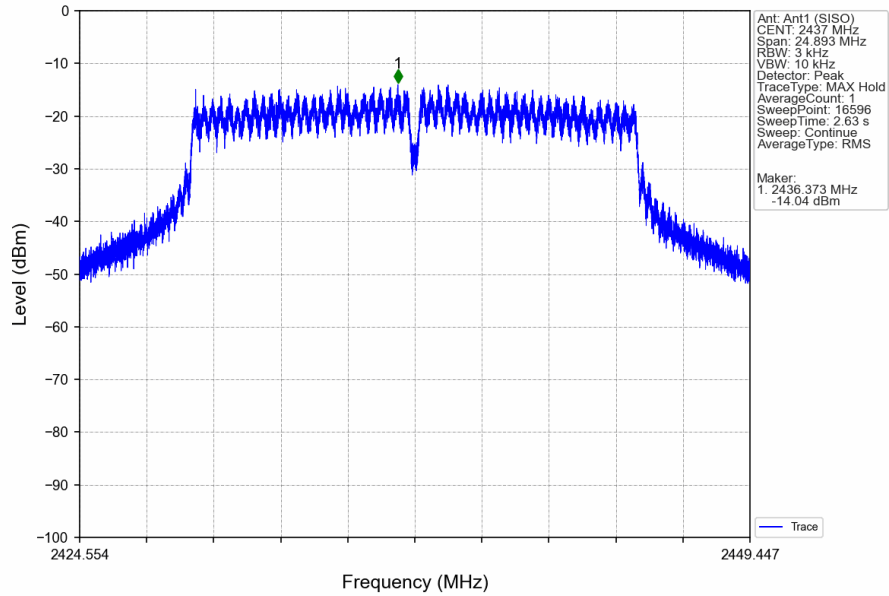
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



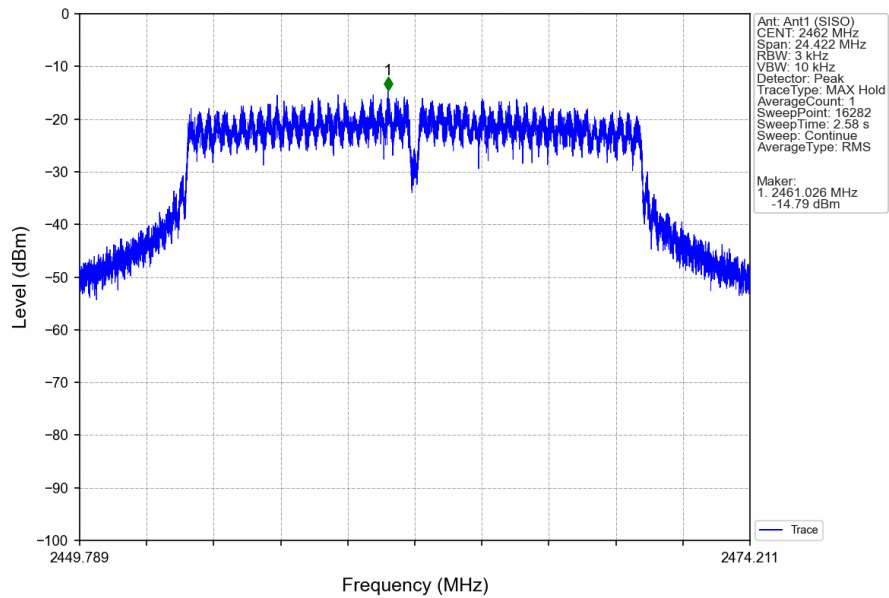
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



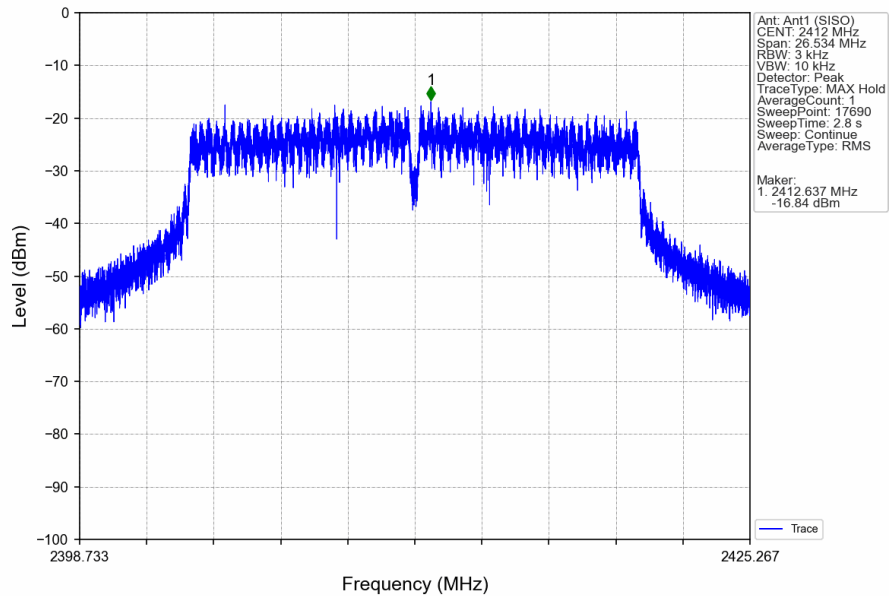
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



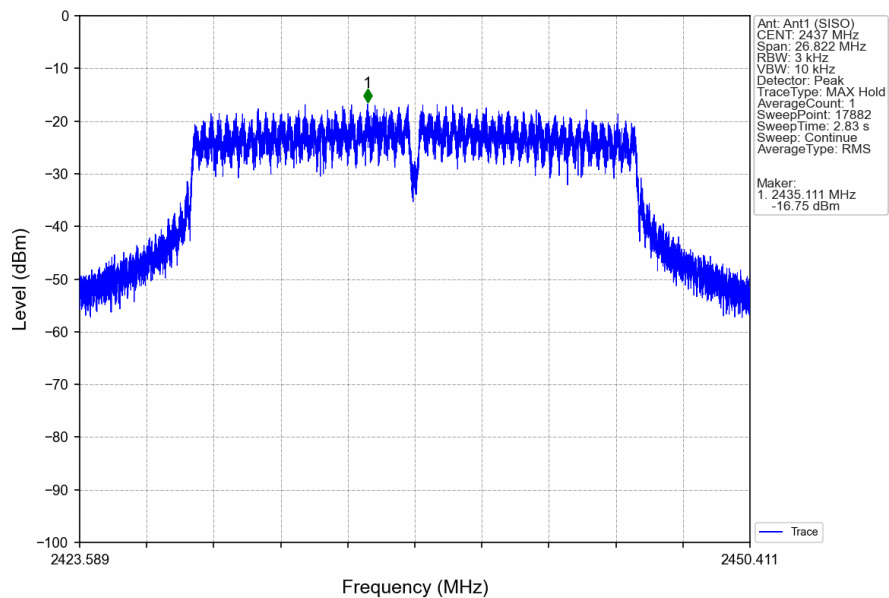
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



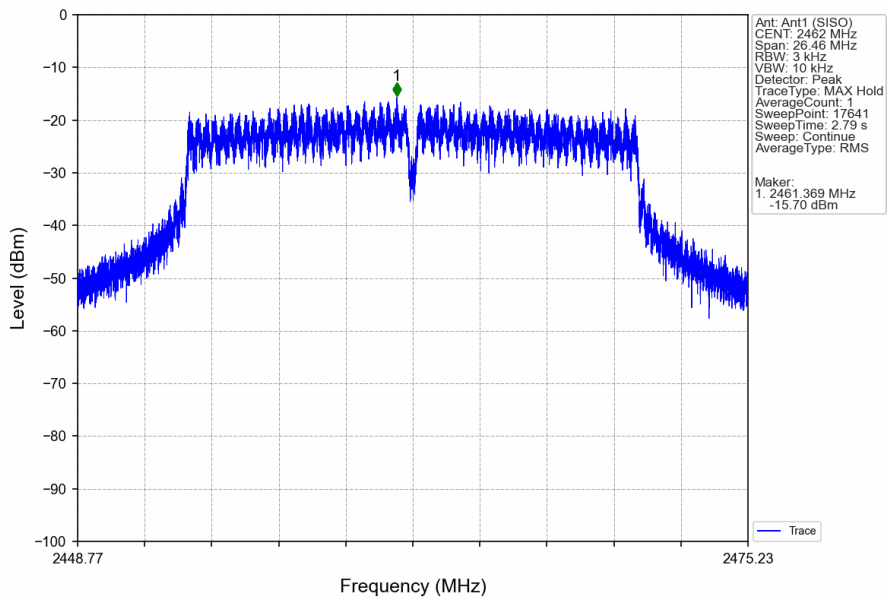
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



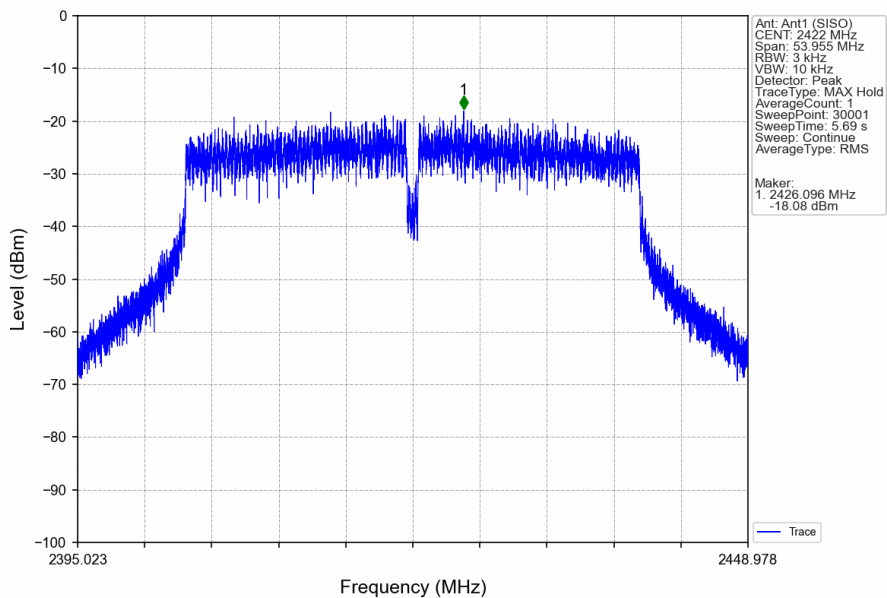
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



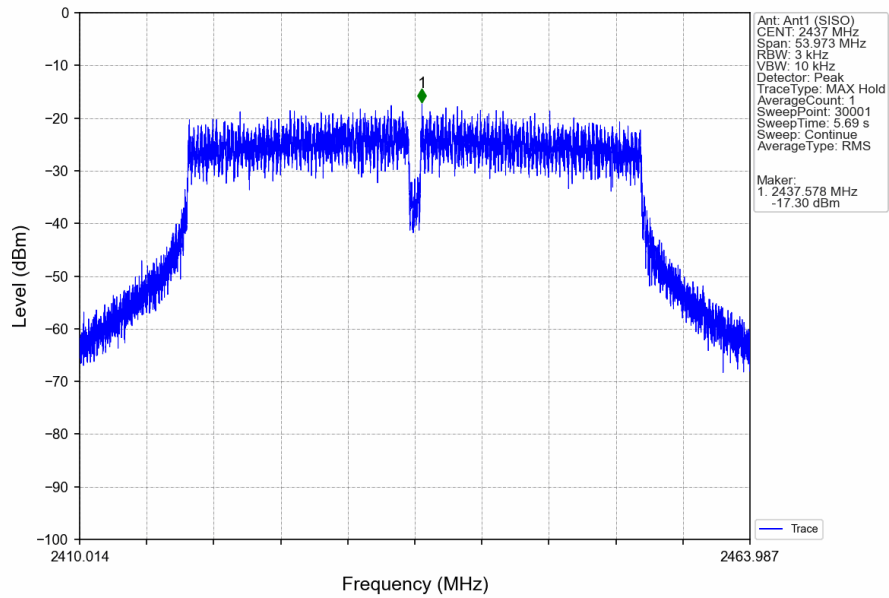
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



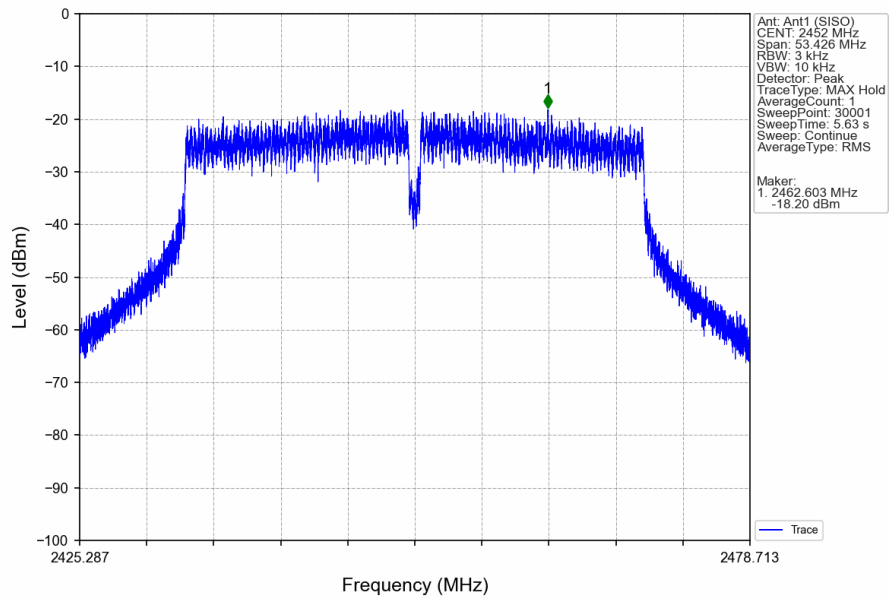
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



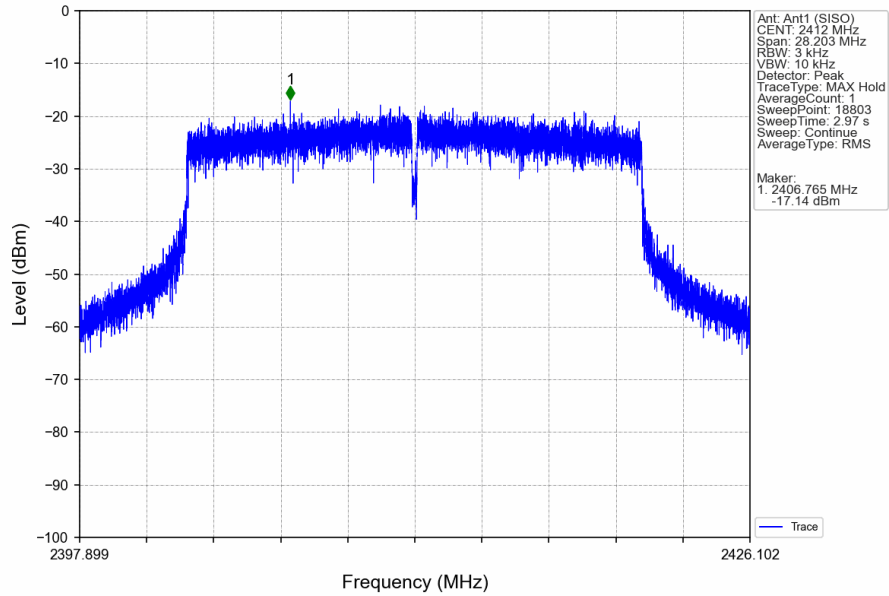
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



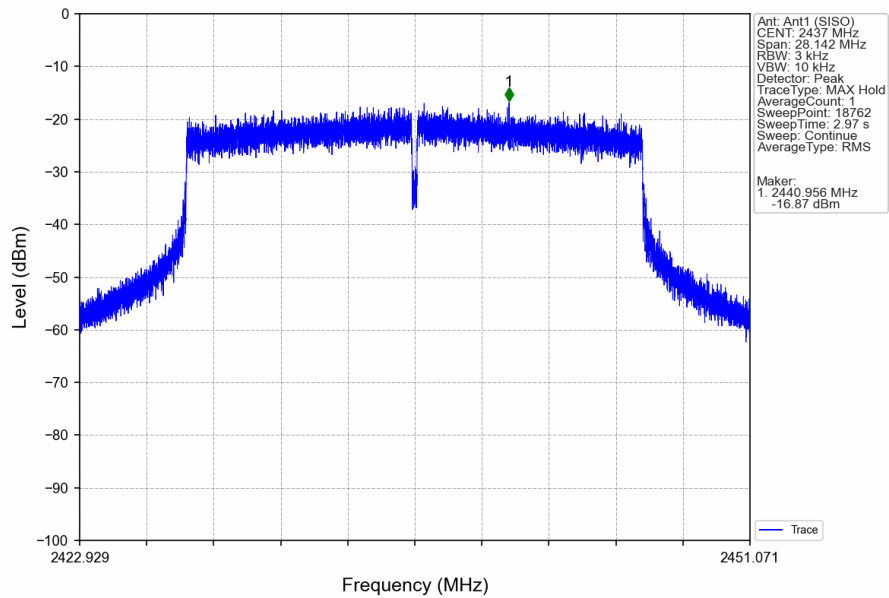
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



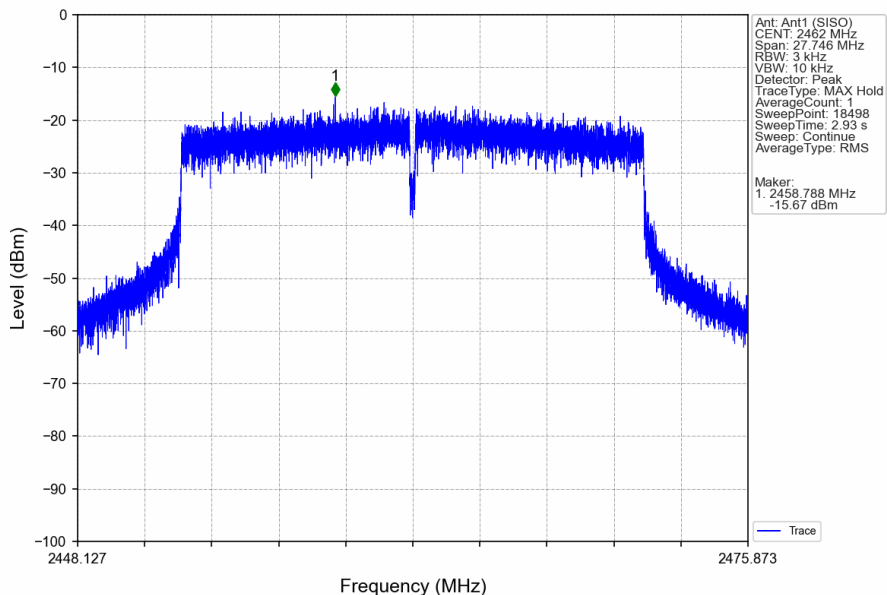
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



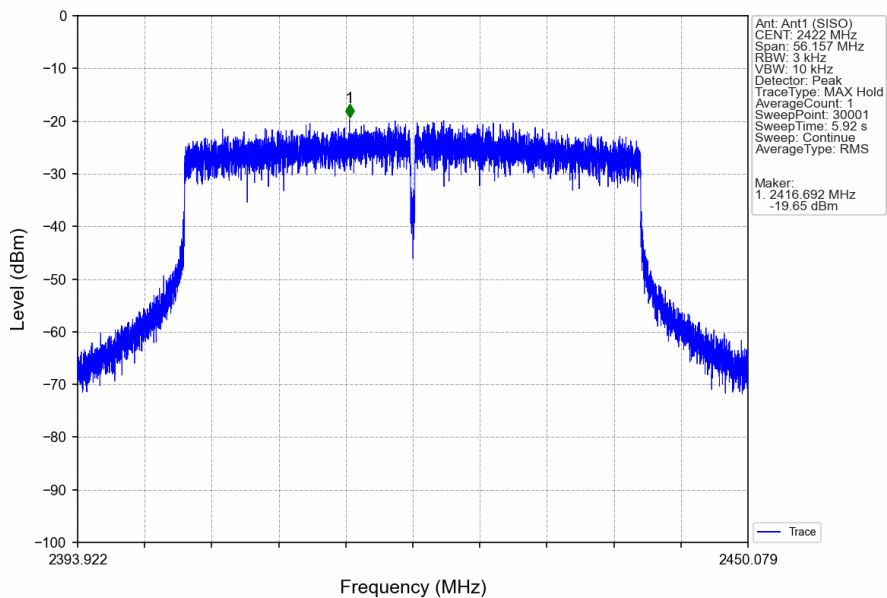
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



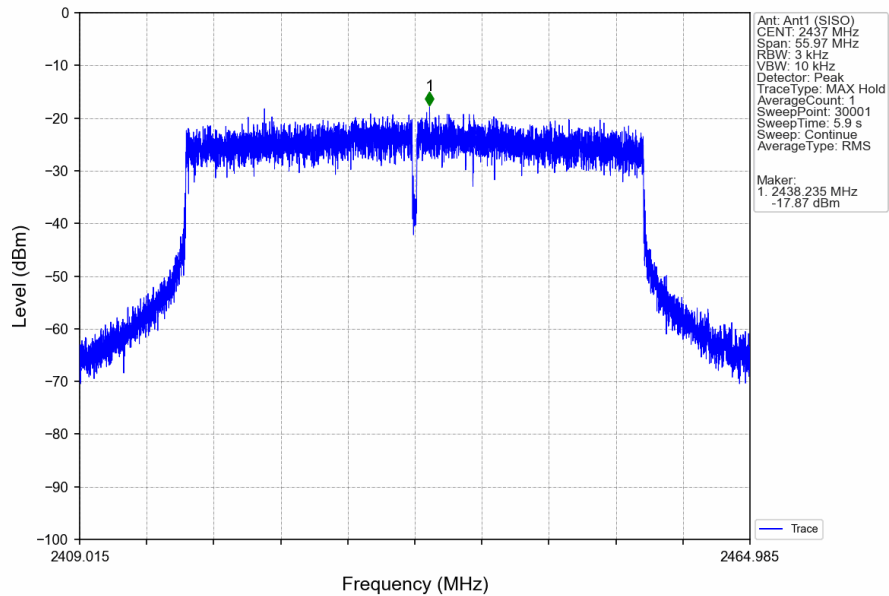
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV

