

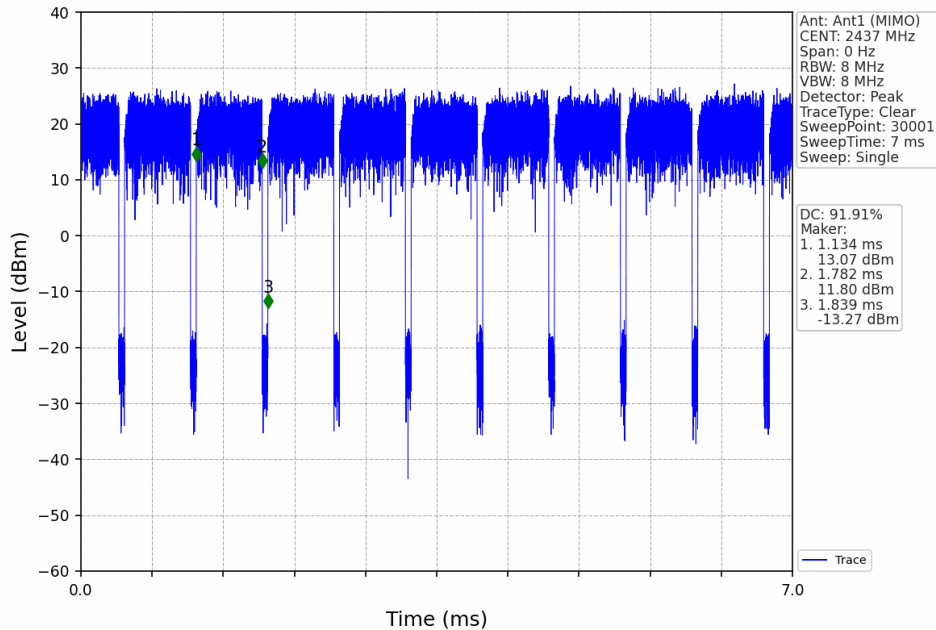
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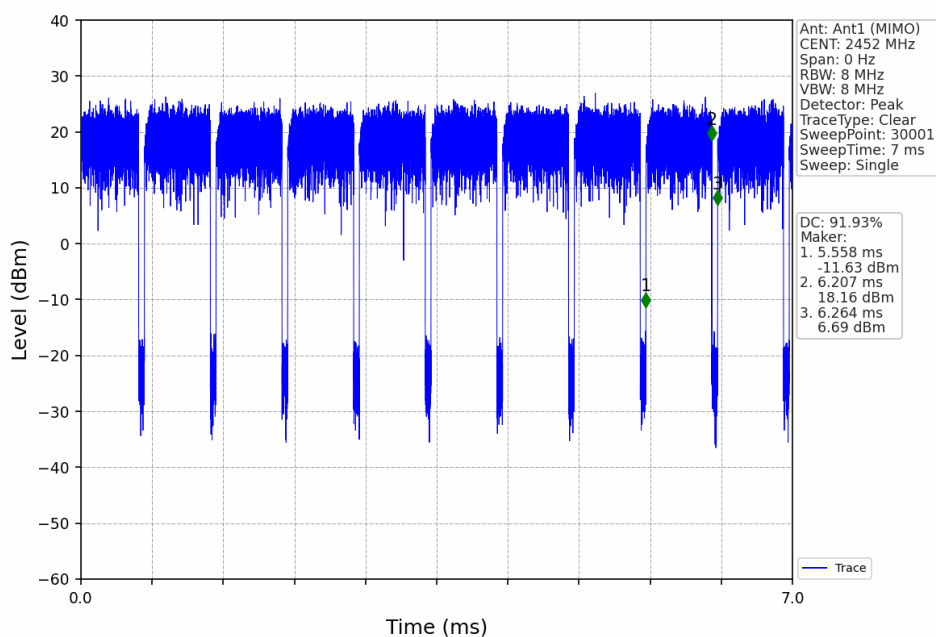
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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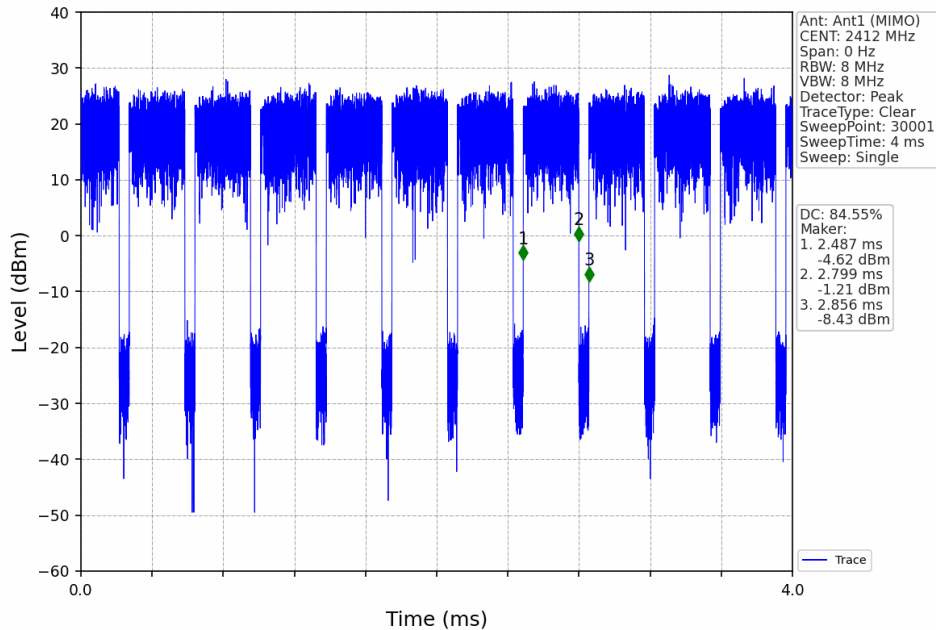
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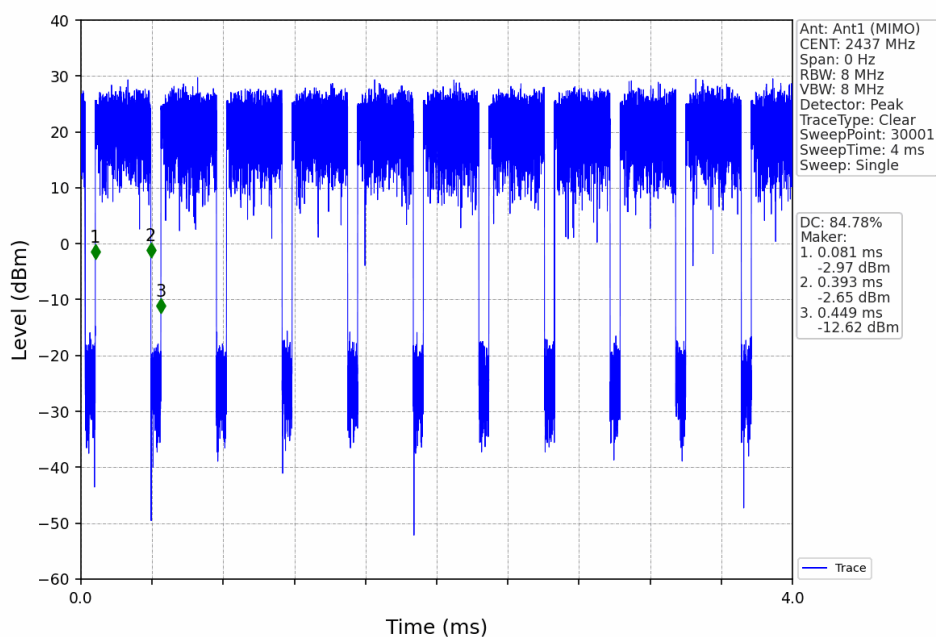
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



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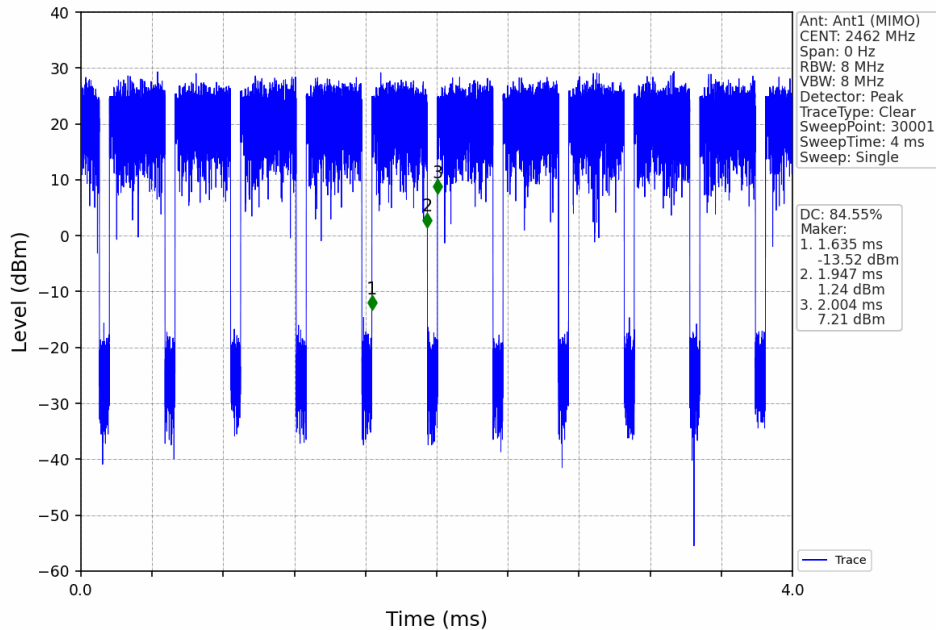
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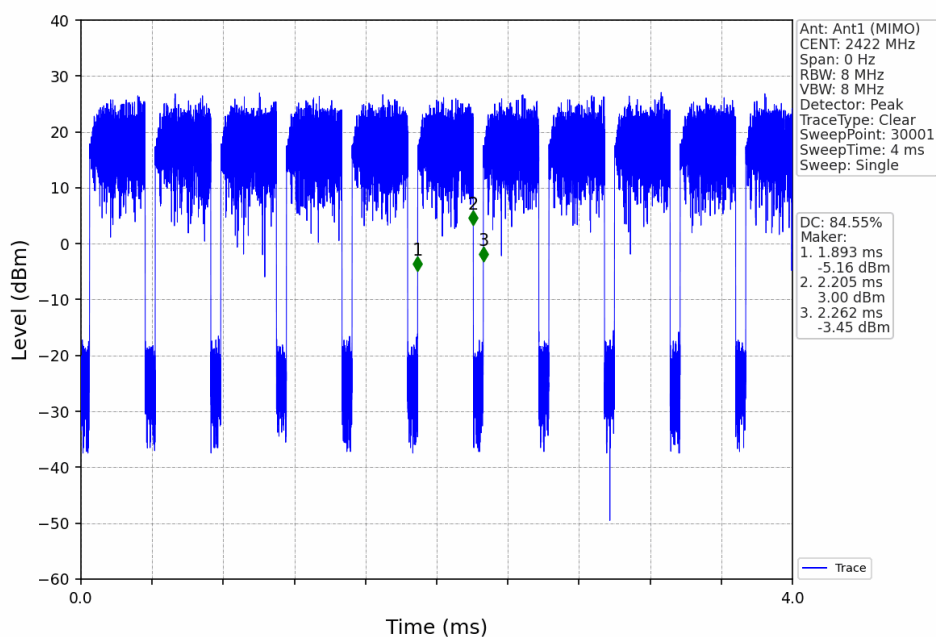
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



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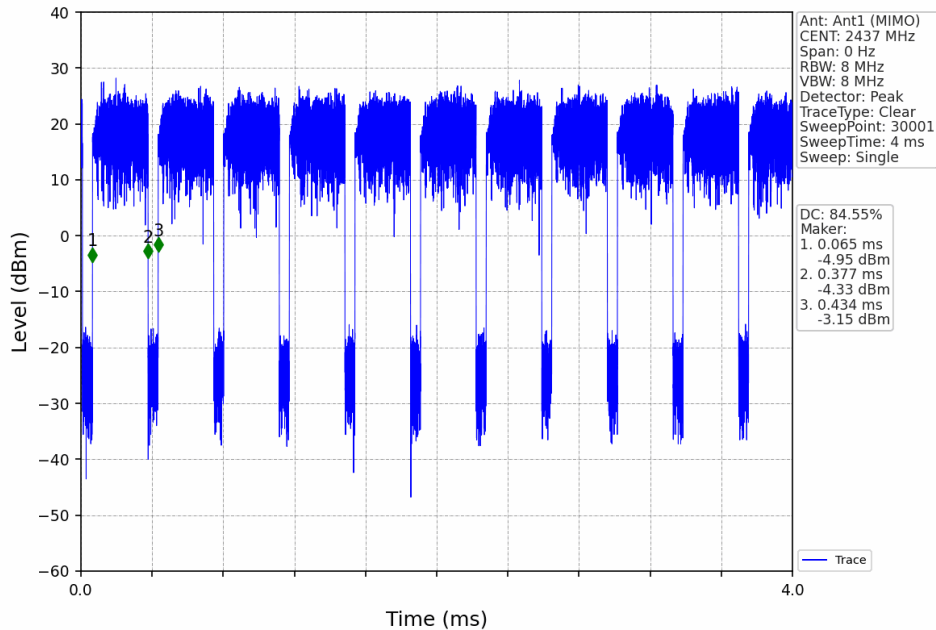
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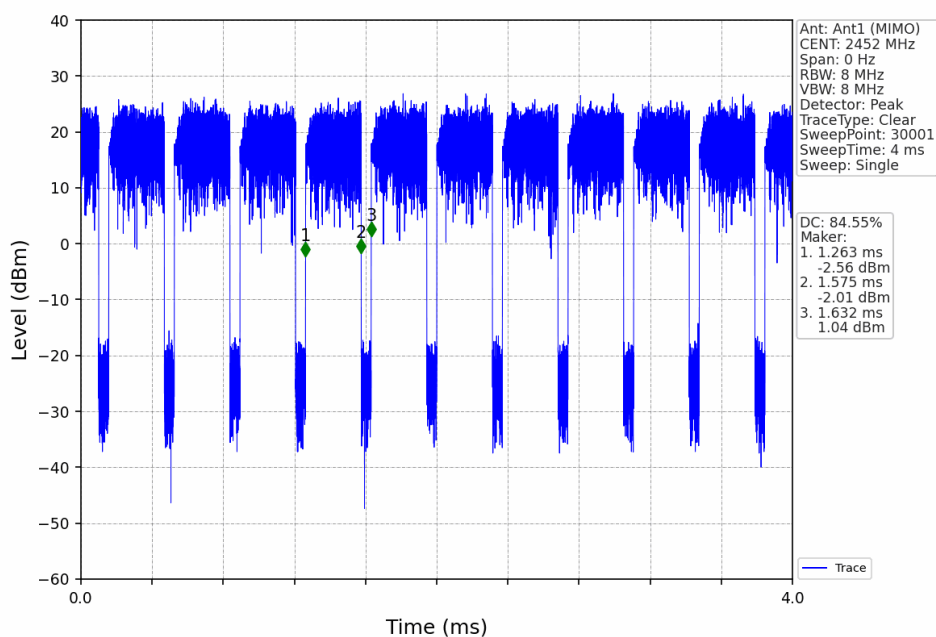
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_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)	Verdict
						Result	
802.11b	MIMO	2412	/	/	1	12.315	Pass
		2437	/	/	1	12.273	Pass
		2462	/	/	1	12.235	Pass
802.11g	MIMO	2412	/	/	1	17.469	Pass
		2437	/	/	1	17.306	Pass
		2462	/	/	1	17.215	Pass
802.11n (HT20)	MIMO	2412	/	/	1	18.220	Pass
		2437	/	/	1	18.174	Pass
		2462	/	/	1	18.136	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.552	Pass
		2437	/	/	1	36.604	Pass
		2452	/	/	1	36.840	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	18.818	Pass
		2437	RU242	Left	1	19.033	Pass
		2462	RU242	Left	1	19.005	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	37.703	Pass
		2437	RU484	Left	1	37.777	Pass
		2452	RU484	Left	1	37.866	Pass

Note:ALL the ANT1,ANT2,ANT3 and ANT4 were conducted the tests. only the worst-case ATN1 is recorded in the test report.



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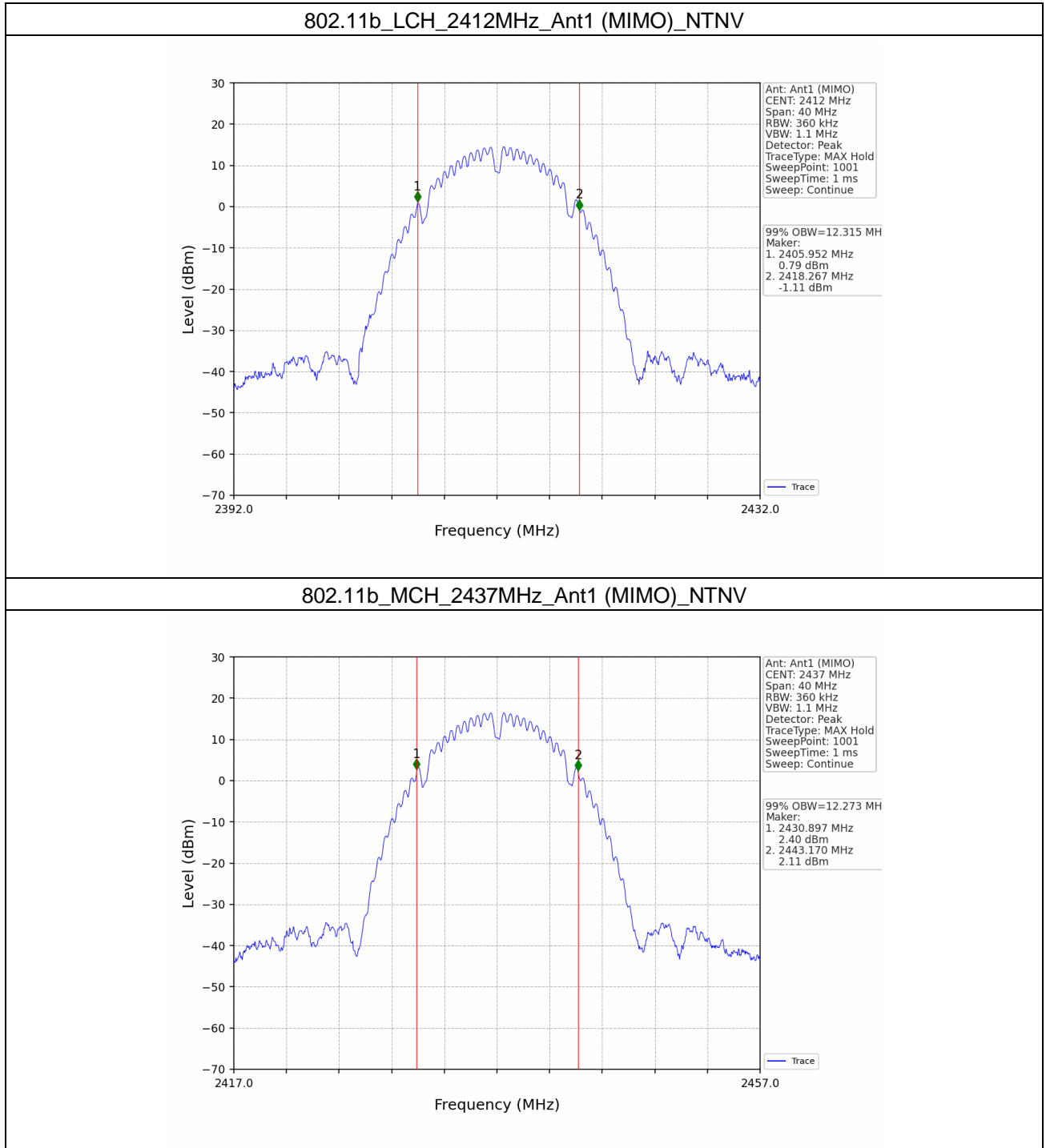
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2.1.2 Test Graph



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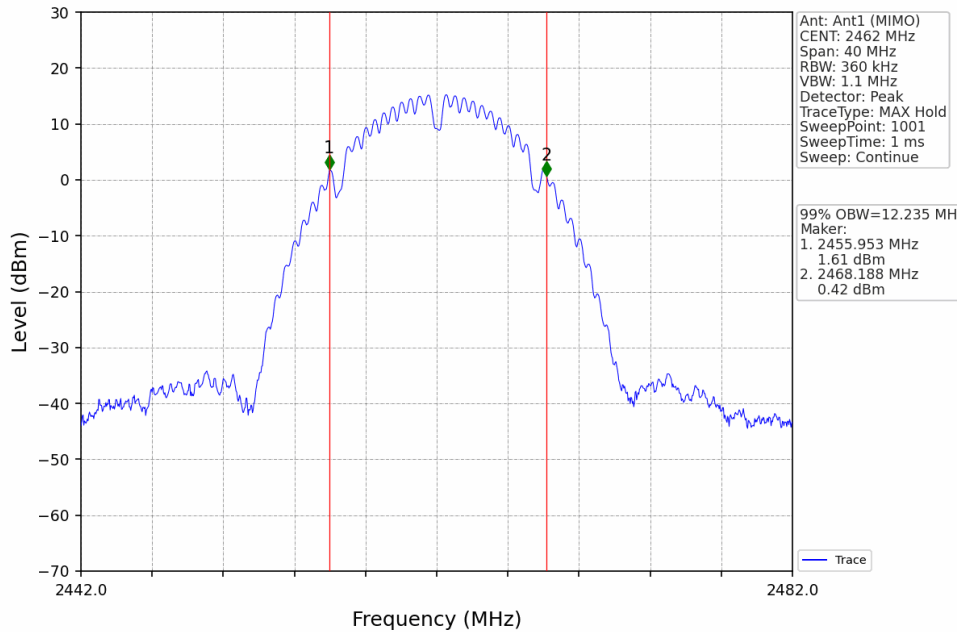
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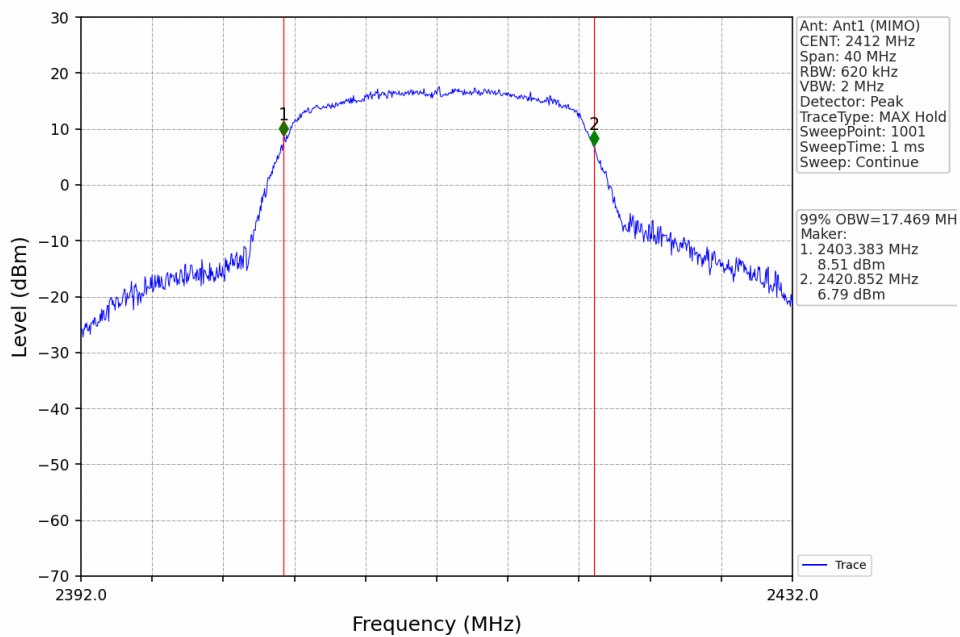
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802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



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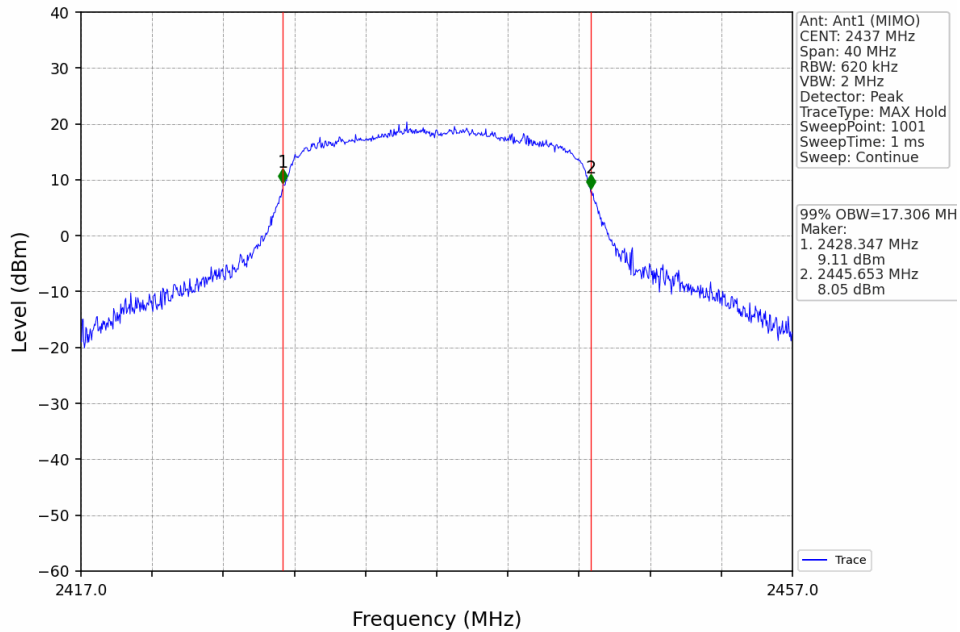
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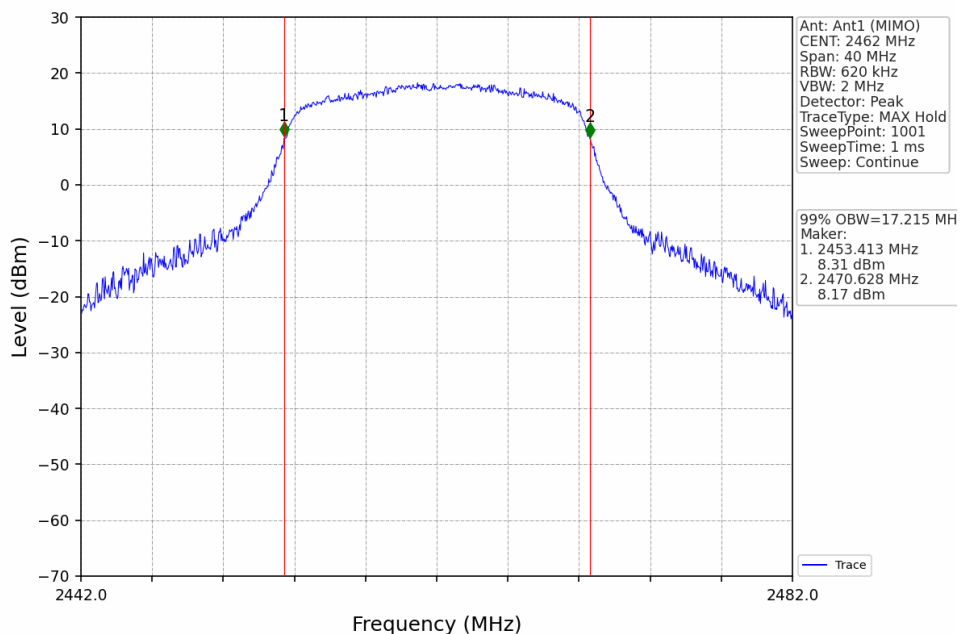
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802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



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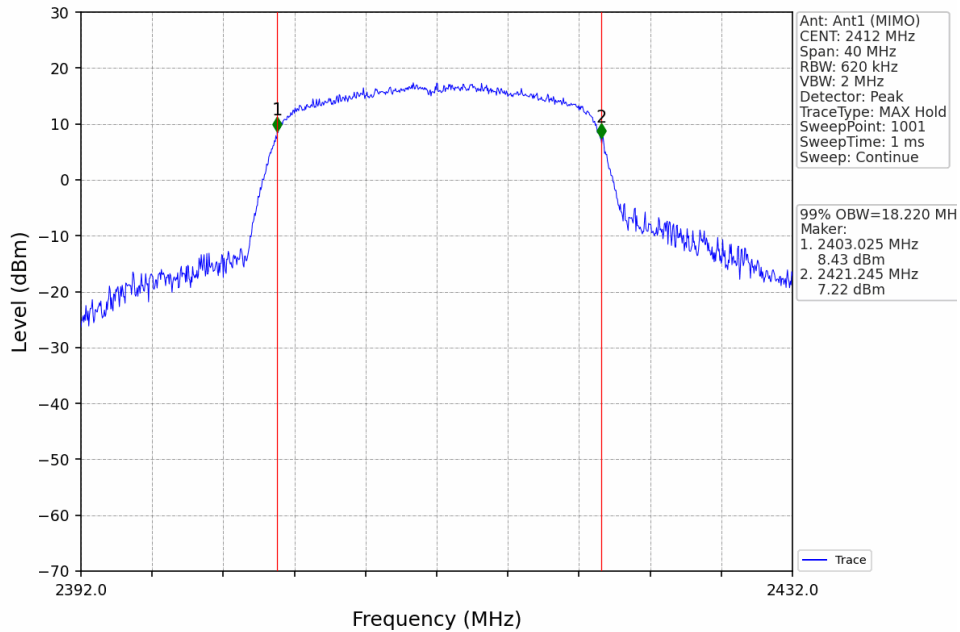
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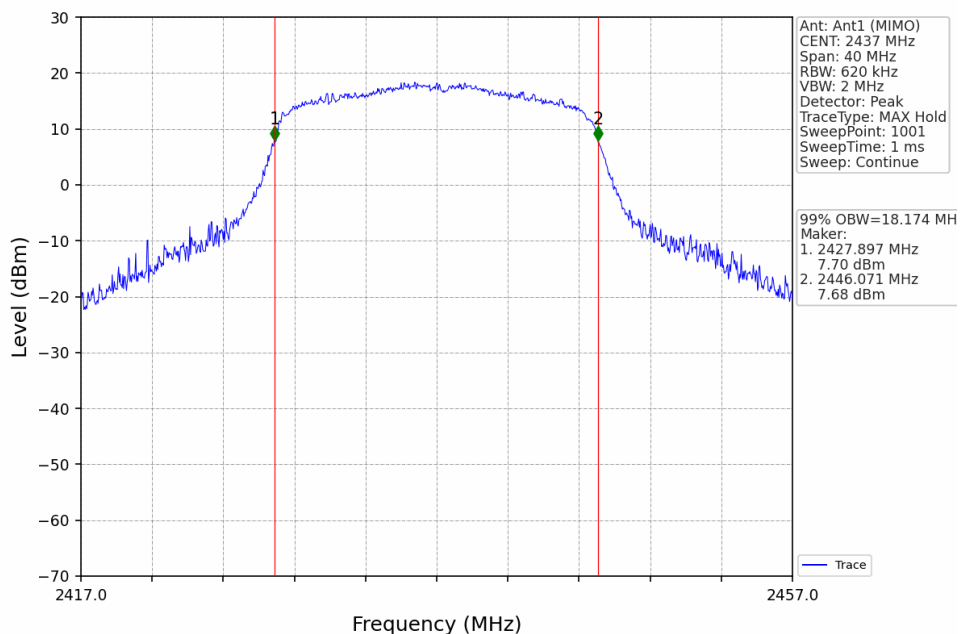
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802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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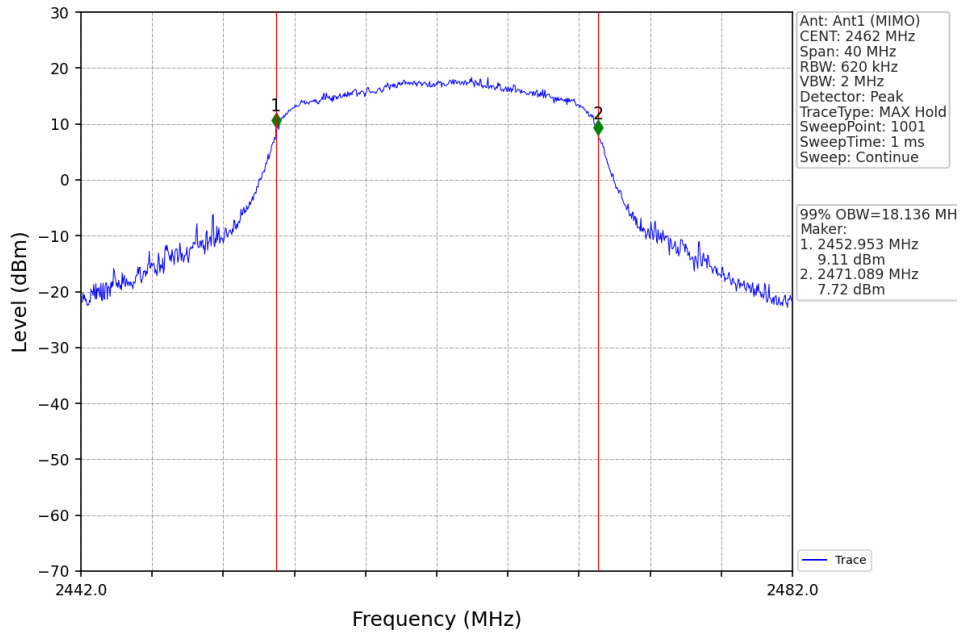
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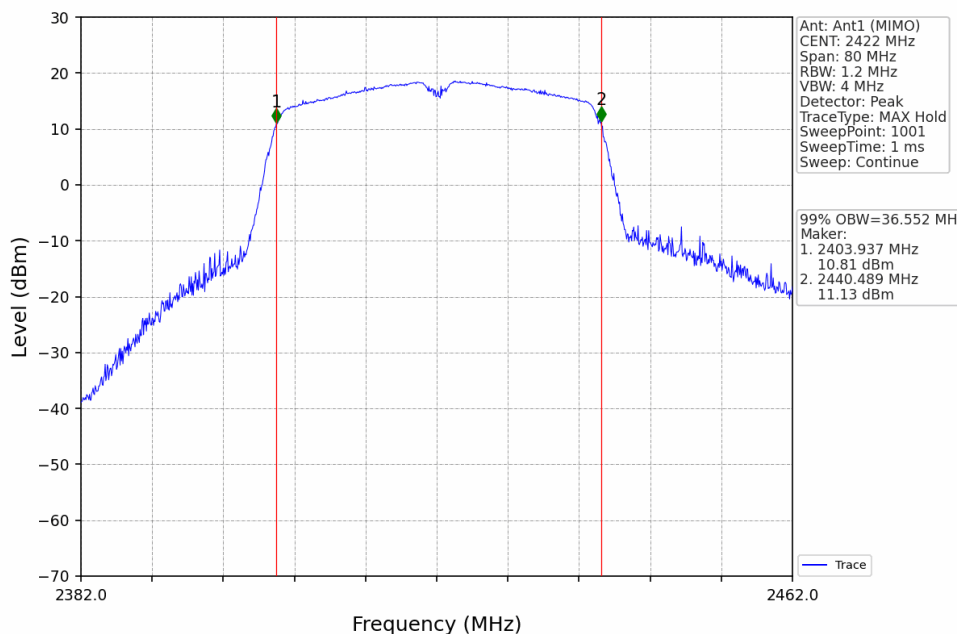
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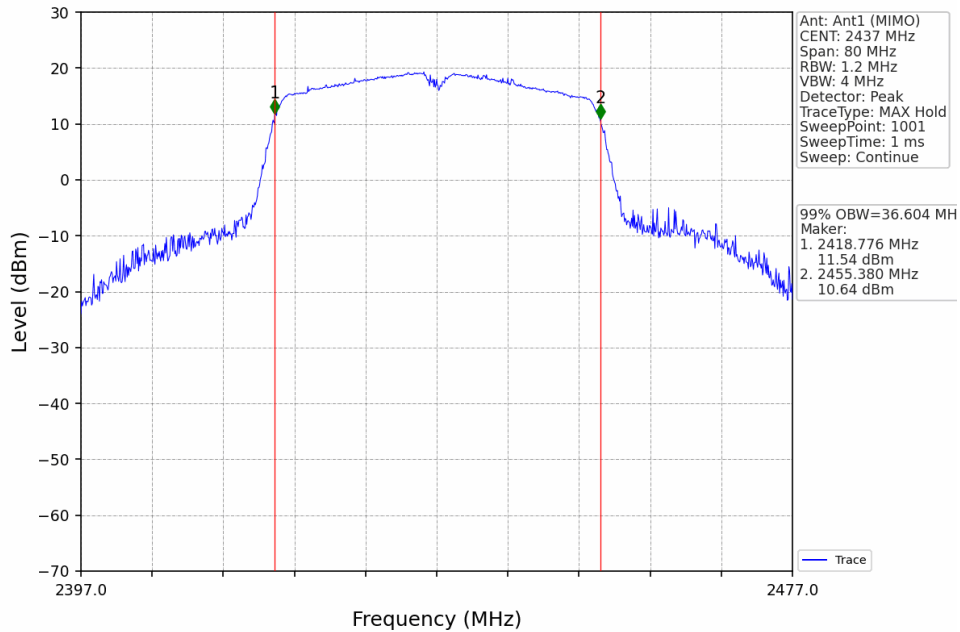
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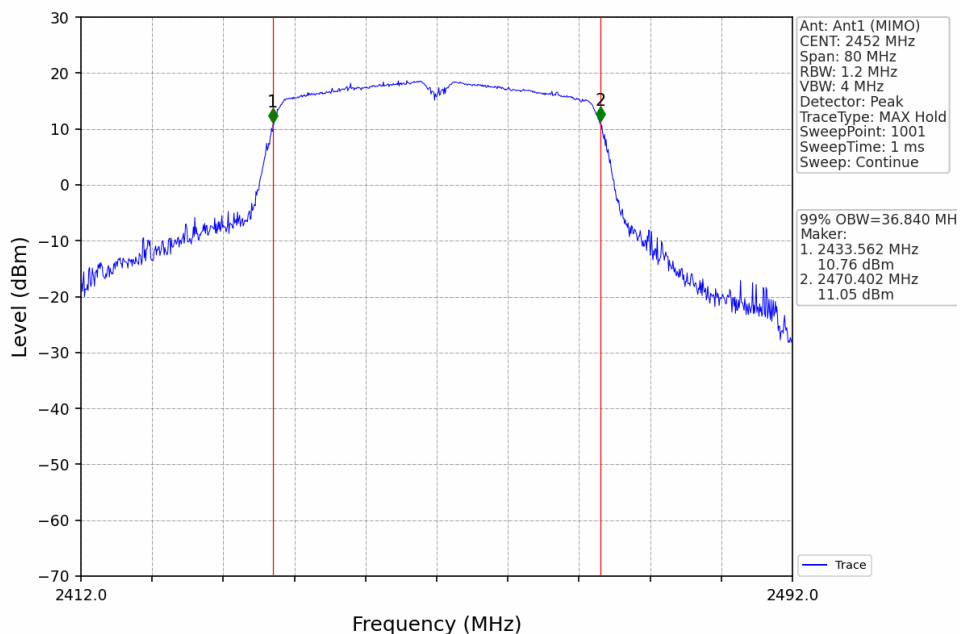
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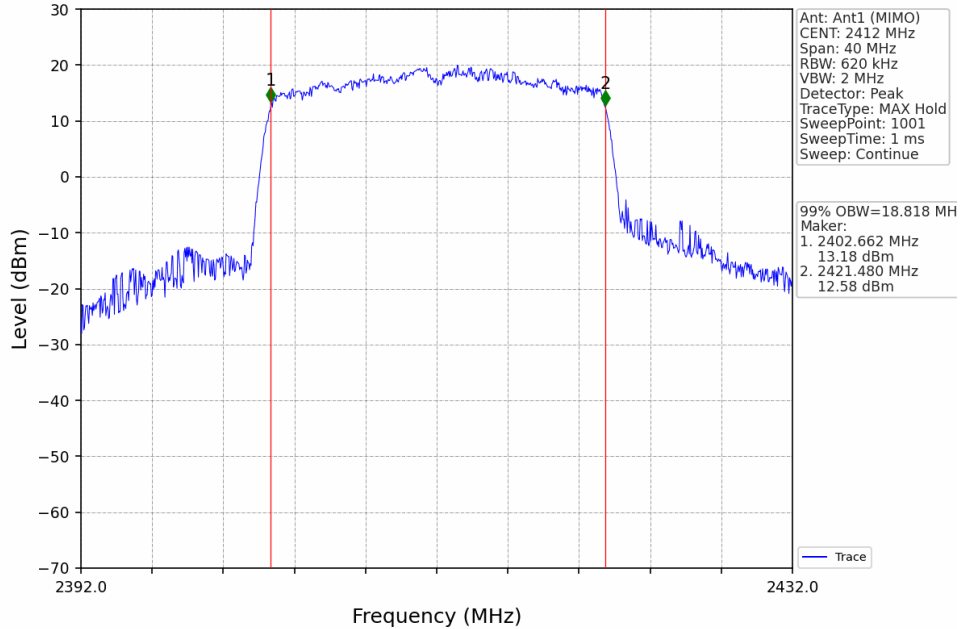
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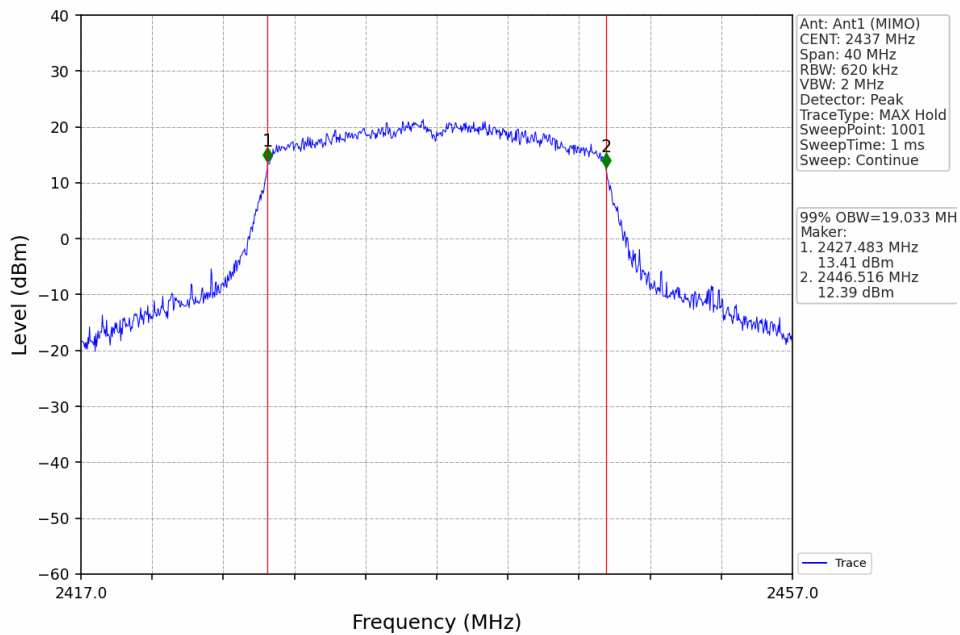
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



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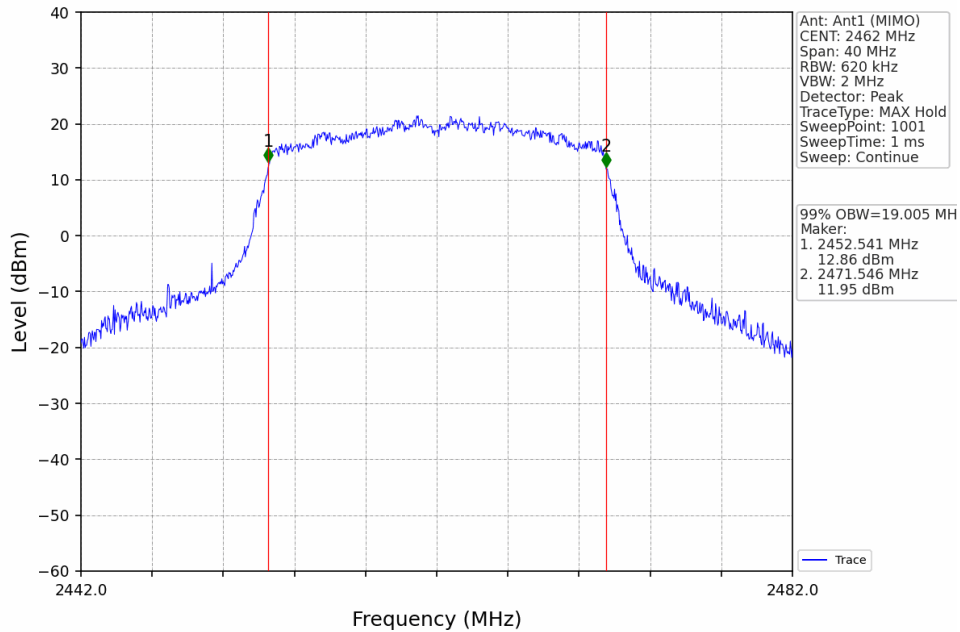
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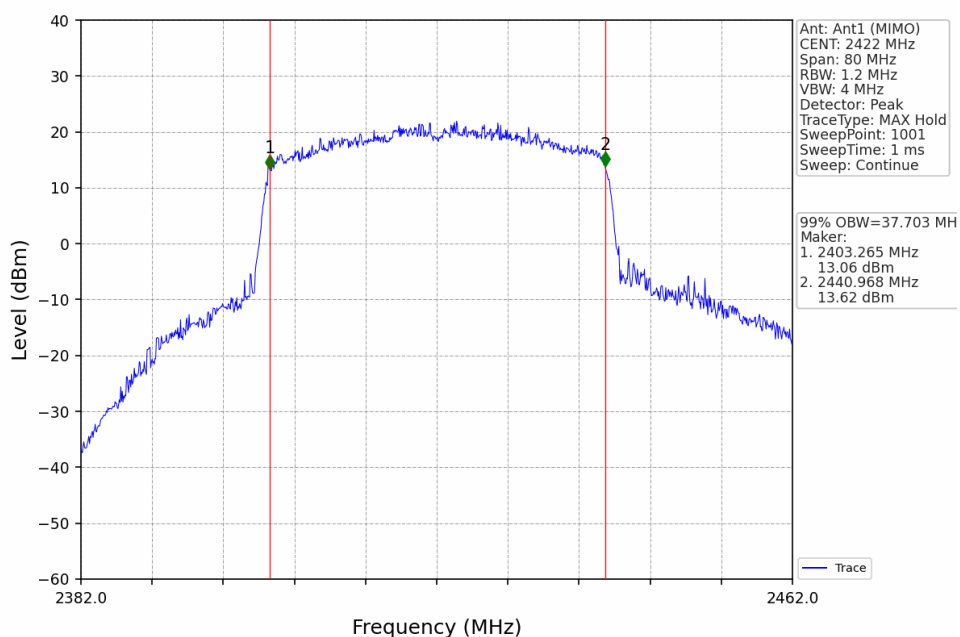
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



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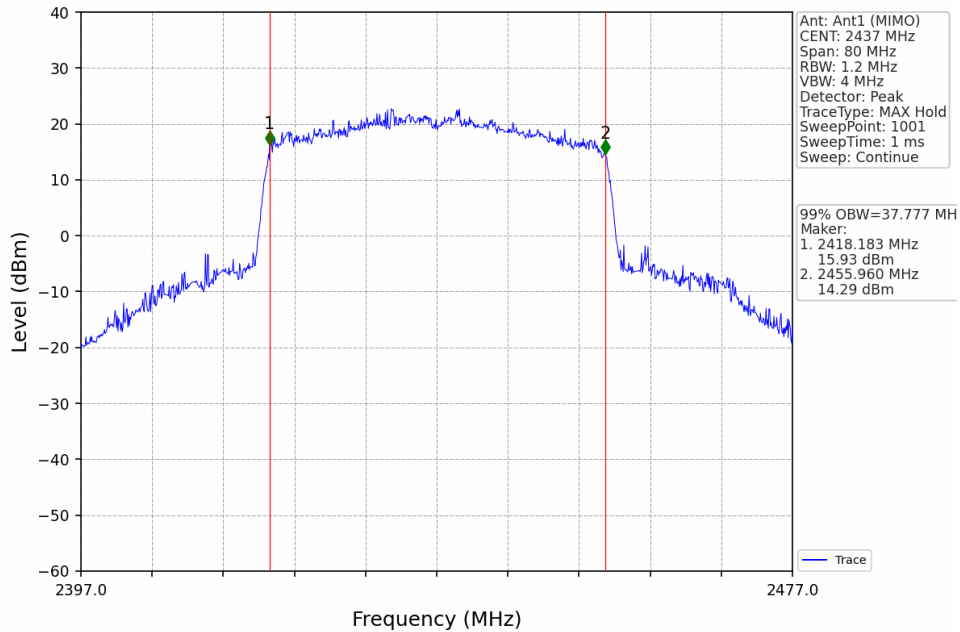
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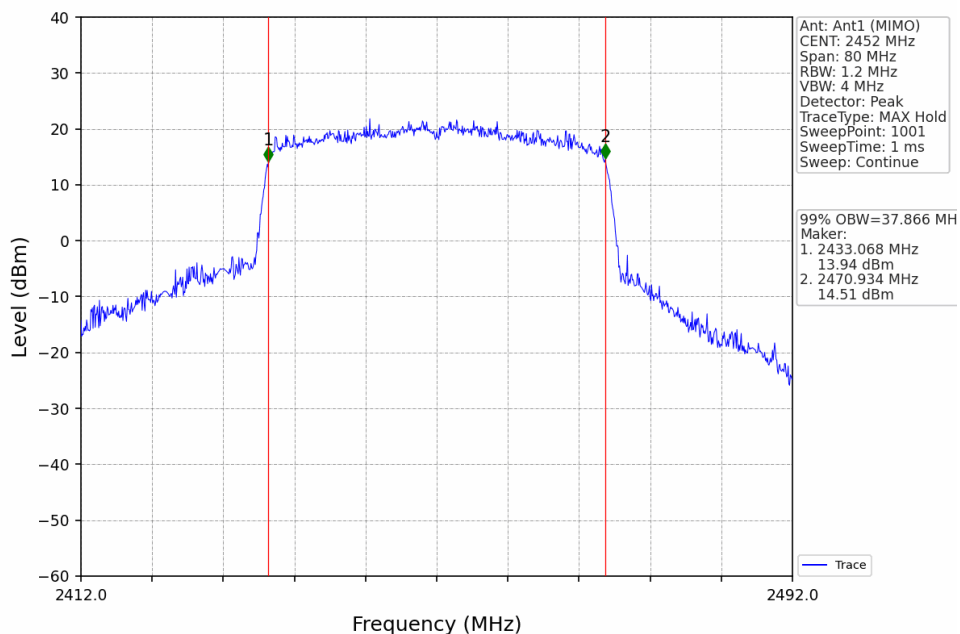
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	MIMO	2412	/	/	1	7.605	>=0.5	Pass
		2437	/	/	1	7.597	>=0.5	Pass
		2462	/	/	1	7.591	>=0.5	Pass
802.11g	MIMO	2412	/	/	1	15.159	>=0.5	Pass
		2437	/	/	1	15.164	>=0.5	Pass
		2462	/	/	1	15.165	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	15.138	>=0.5	Pass
		2437	/	/	1	15.142	>=0.5	Pass
		2462	/	/	1	15.136	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.129	>=0.5	Pass
		2437	/	/	1	35.140	>=0.5	Pass
		2452	/	/	1	35.164	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	16.611	>=0.5	Pass
		2437	RU242	Left	1	15.513	>=0.5	Pass
		2462	RU242	Left	1	16.081	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	36.057	>=0.5	Pass
		2437	RU484	Left	1	35.146	>=0.5	Pass
		2452	RU484	Left	1	37.204	>=0.5	Pass

Note: ALL the ANT1, ANT2, ANT3 and ANT4 were conducted the tests. only the worst-case ATN1 is recorded in the test report.



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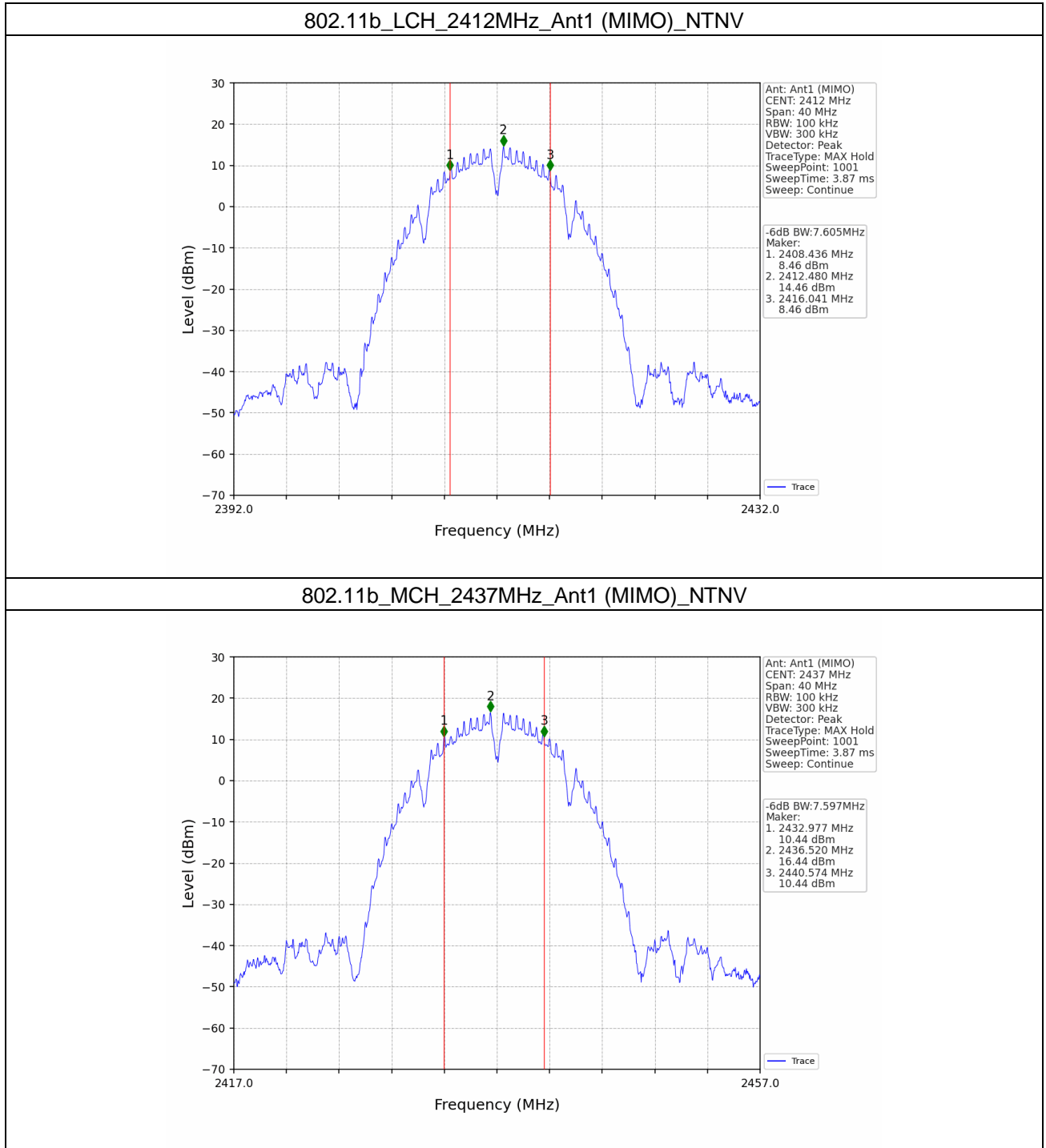
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2.2.2 Test Graph



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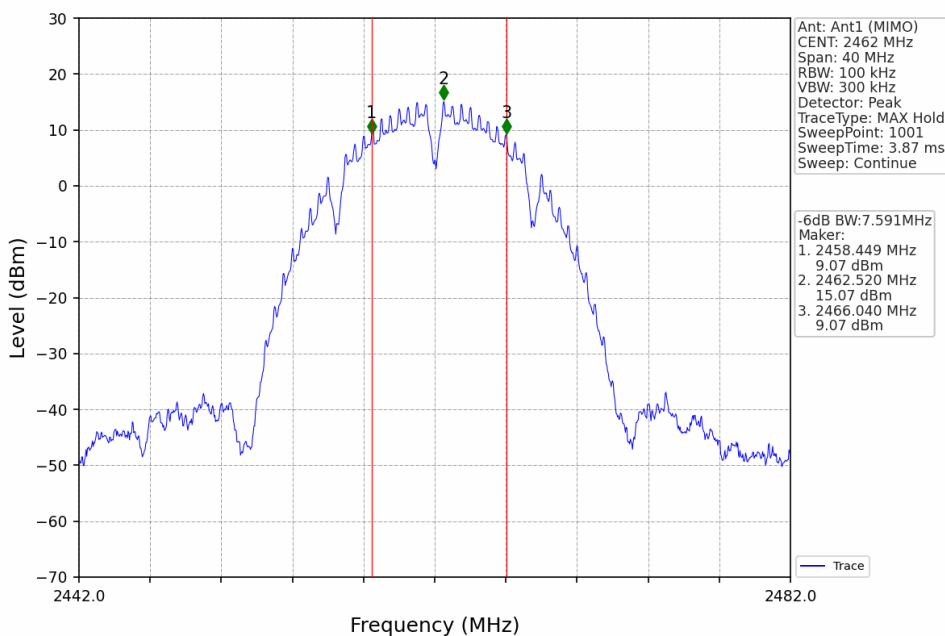
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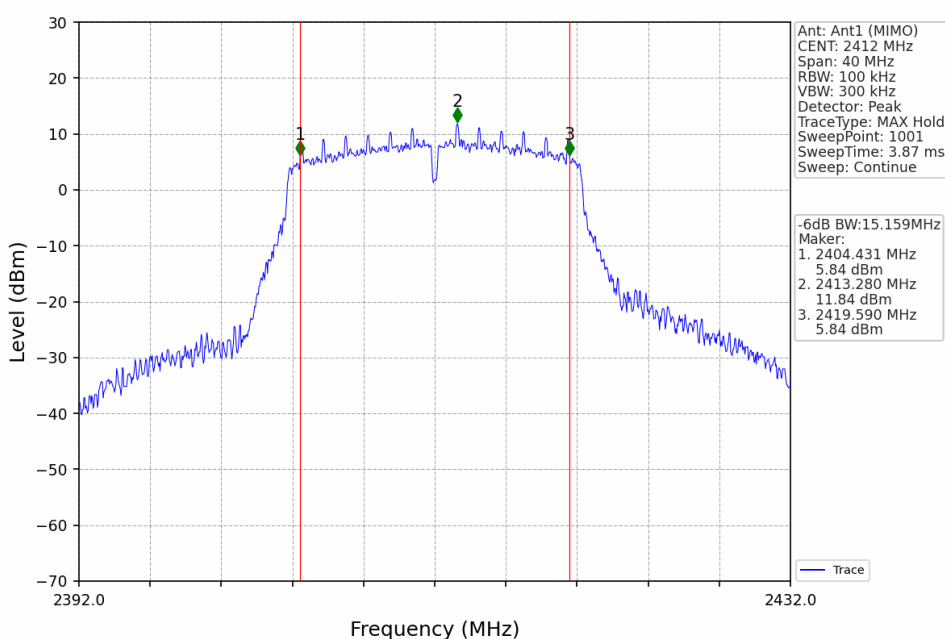
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802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



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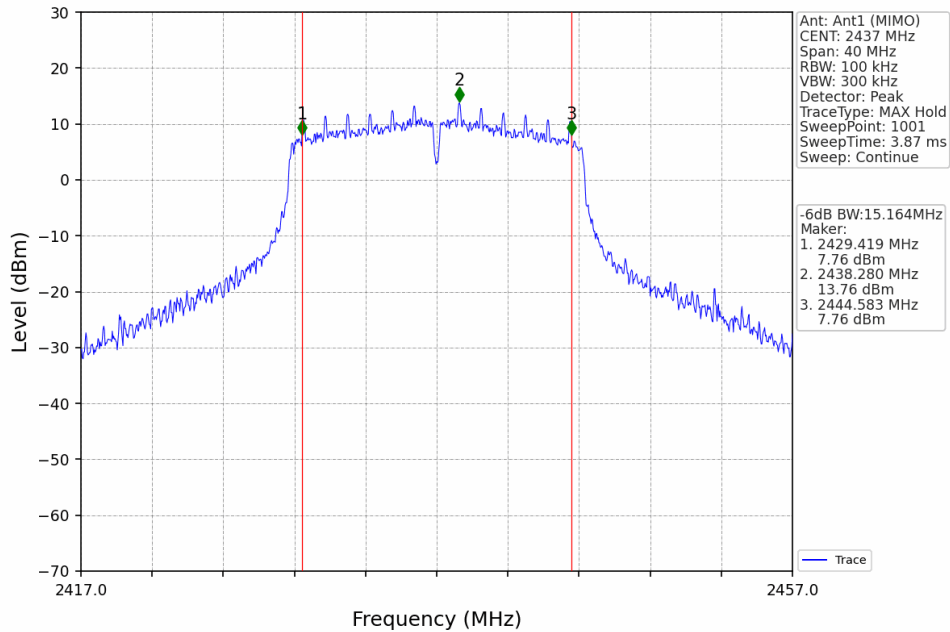
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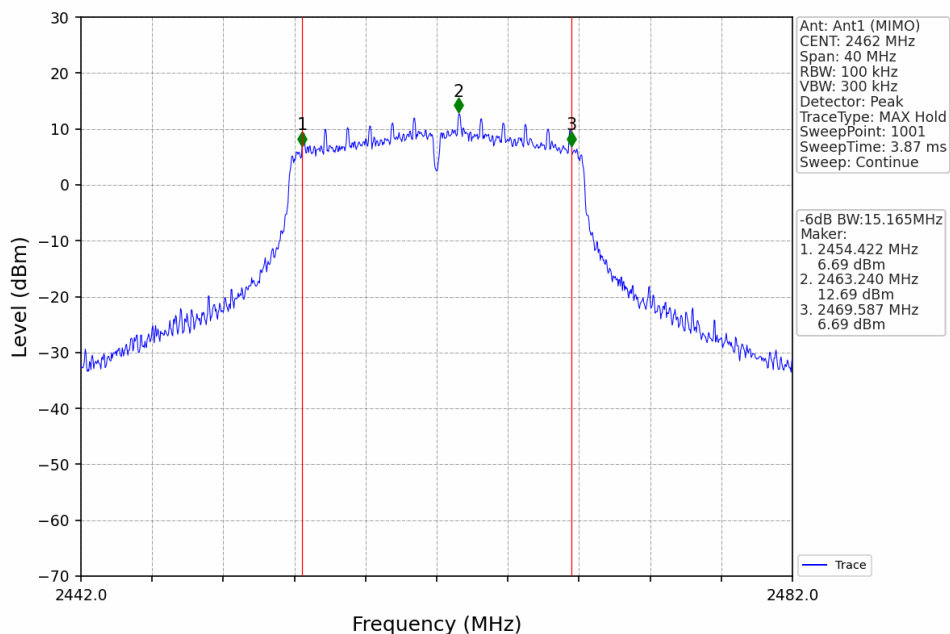
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802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



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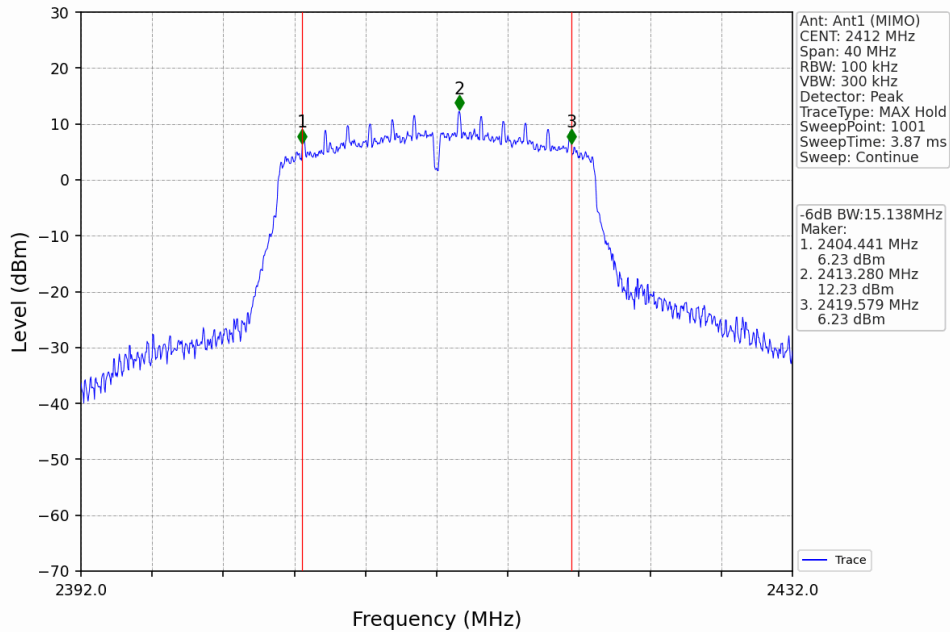
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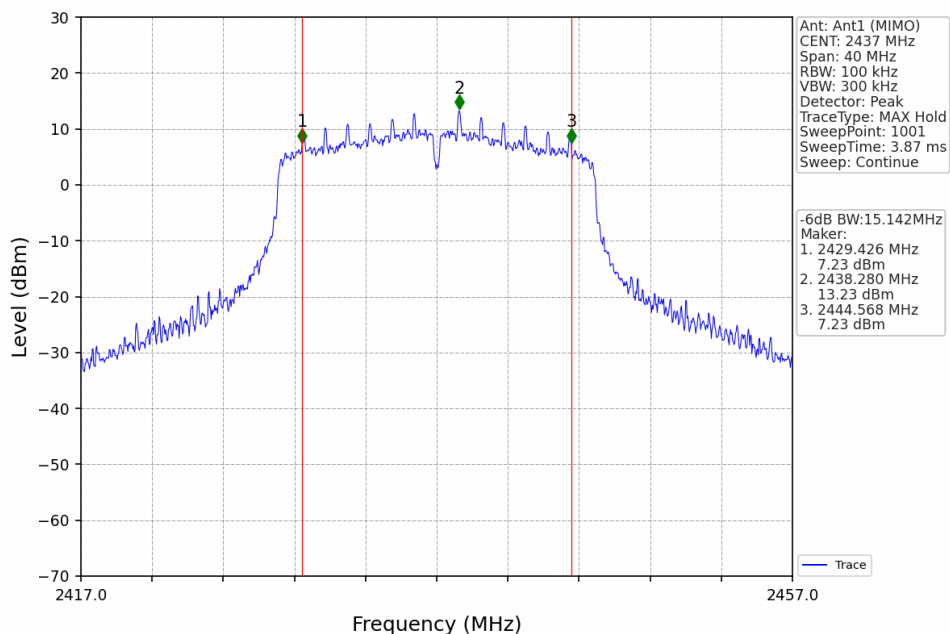
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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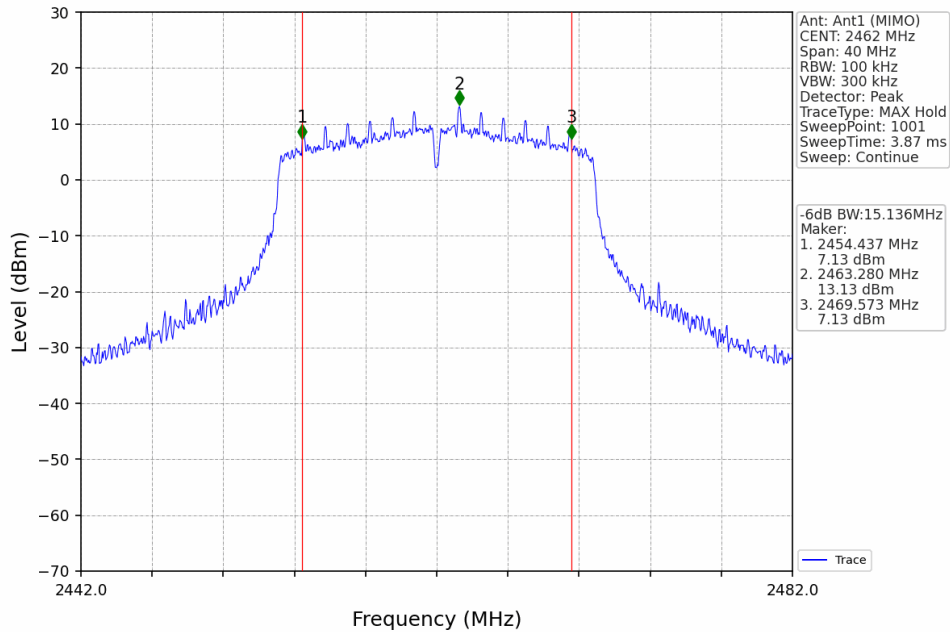
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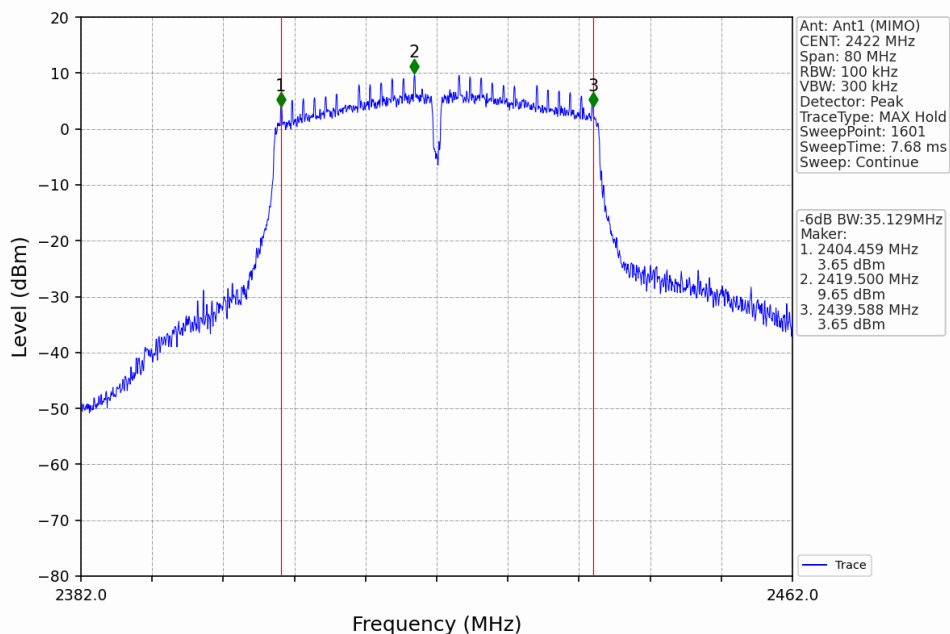
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



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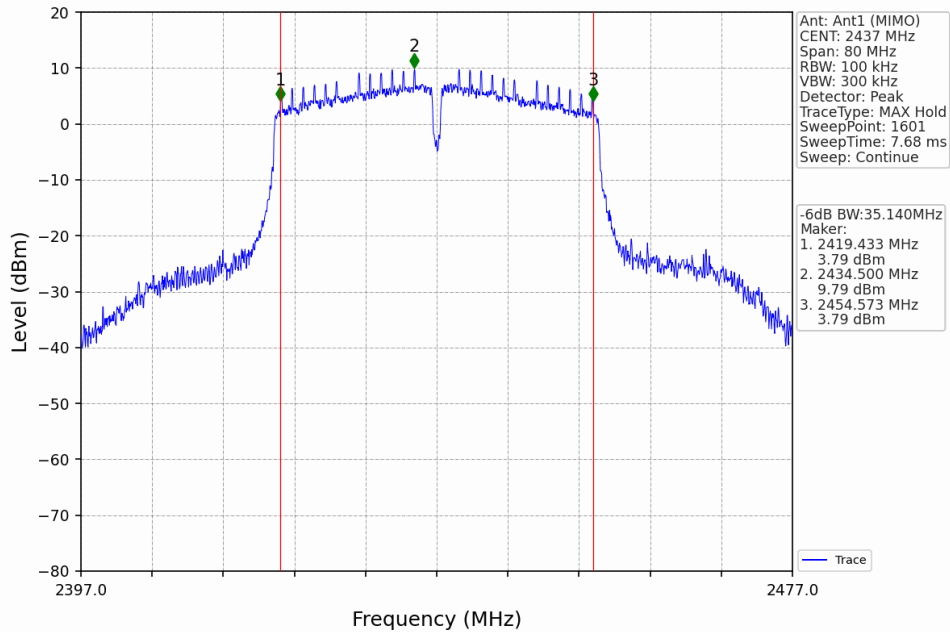
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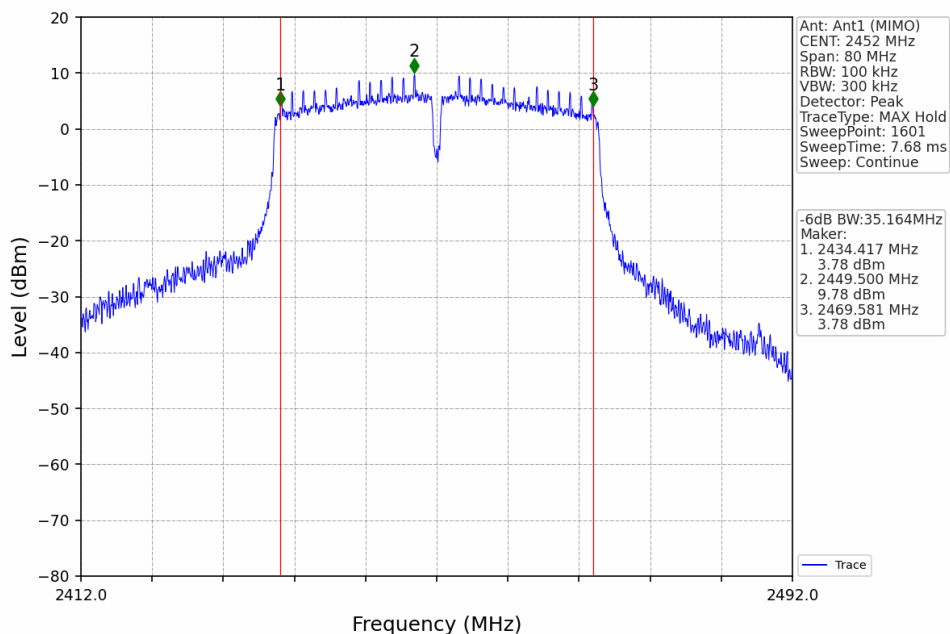
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802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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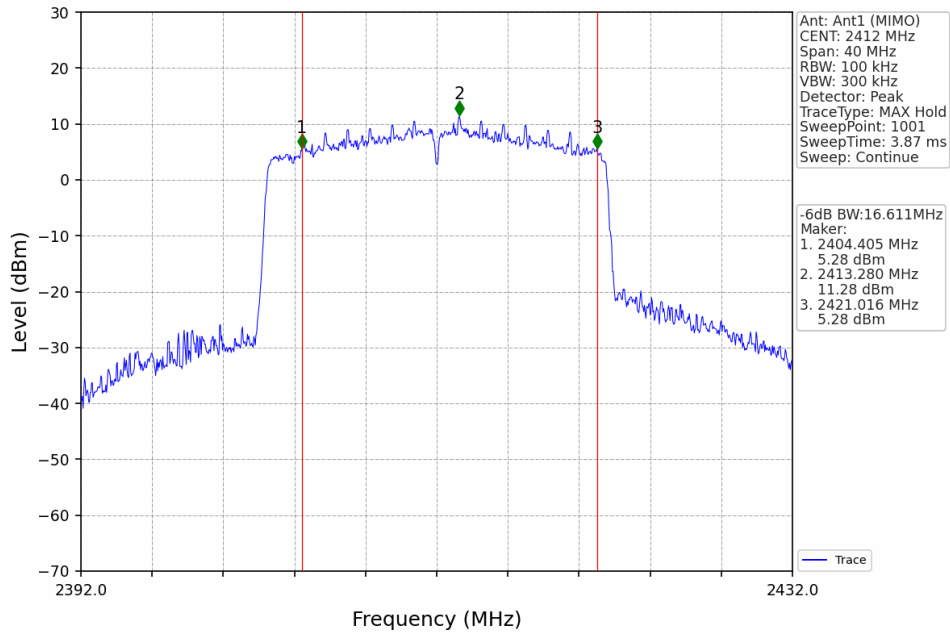
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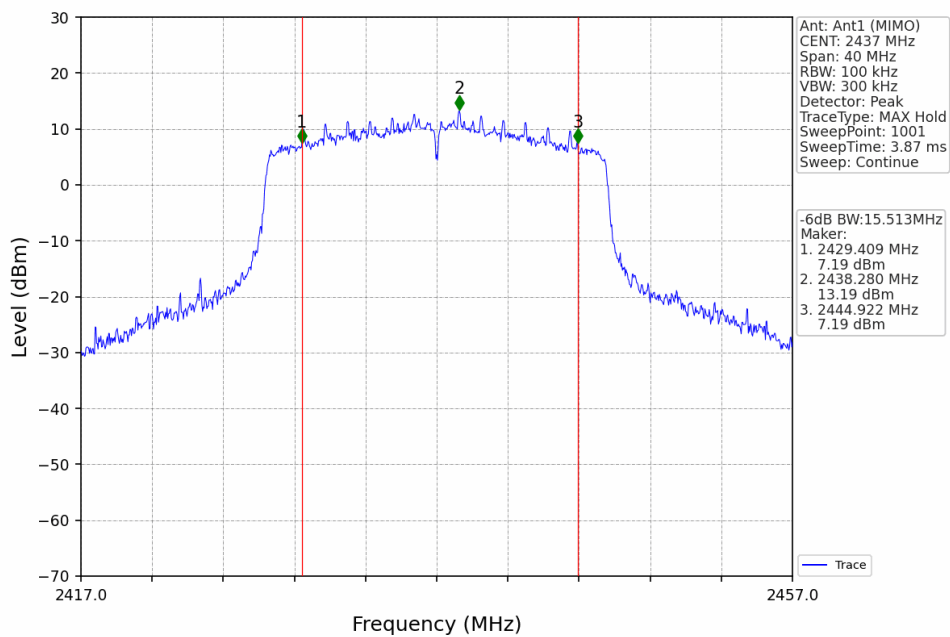
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



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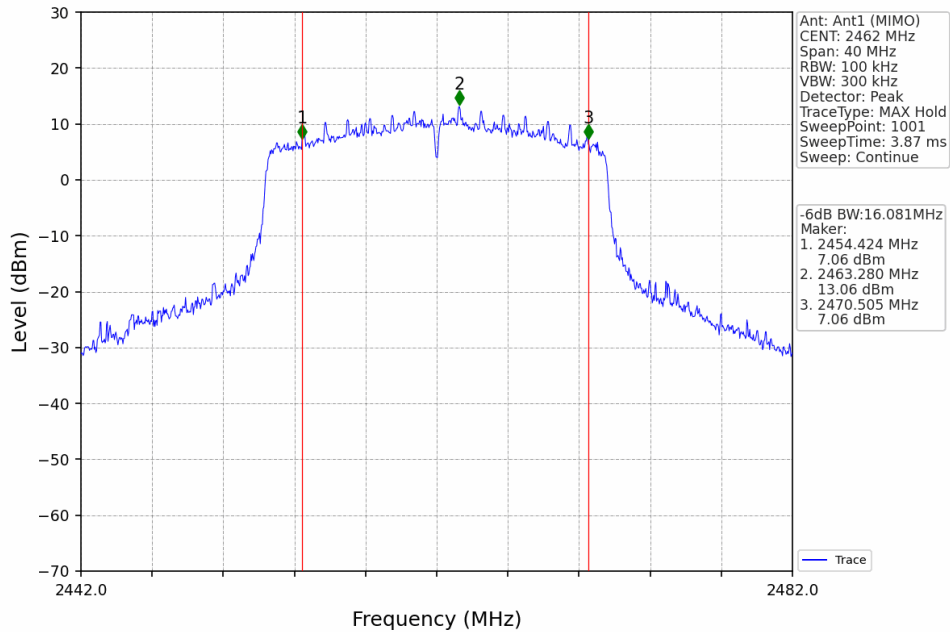
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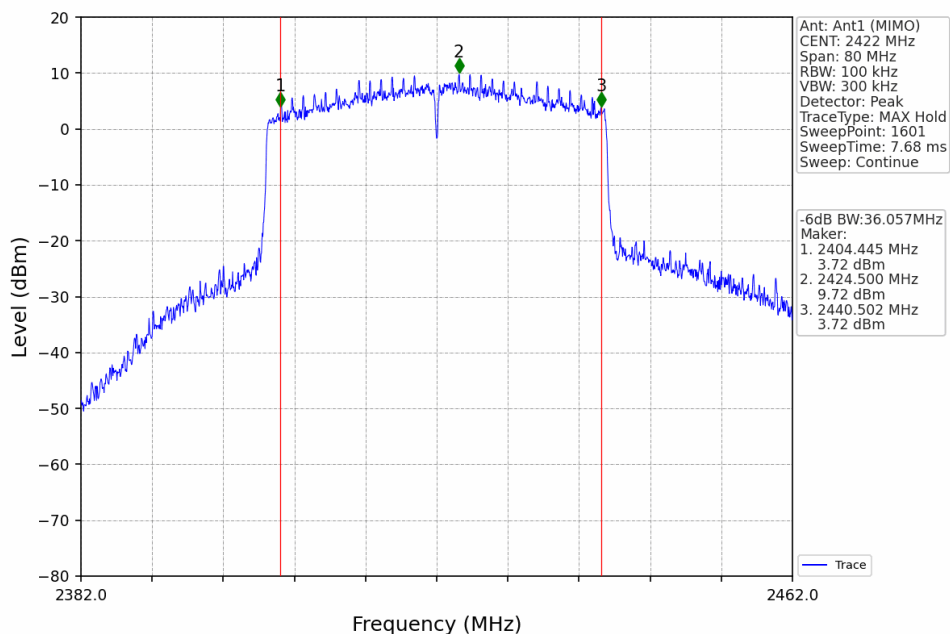
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



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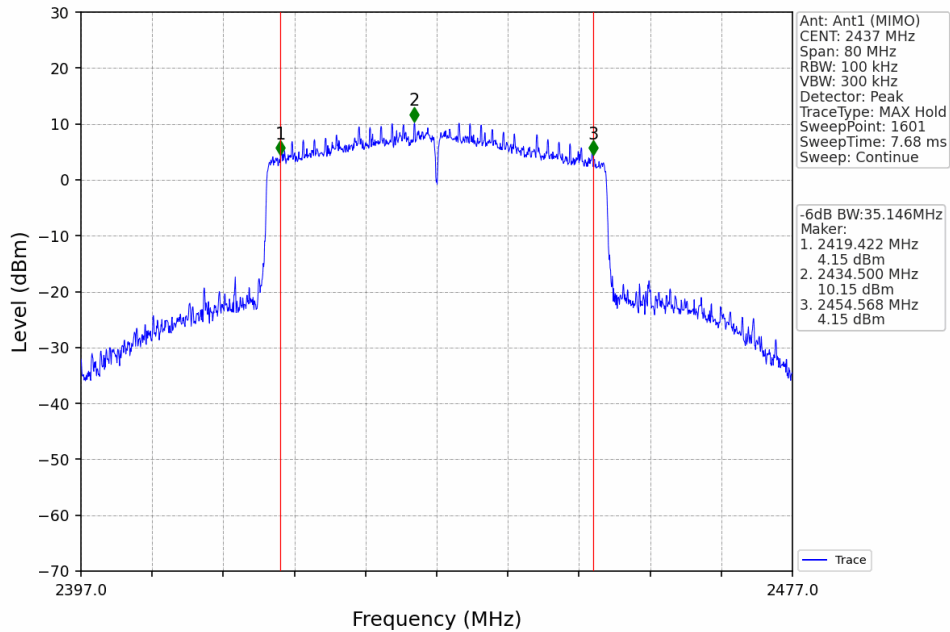
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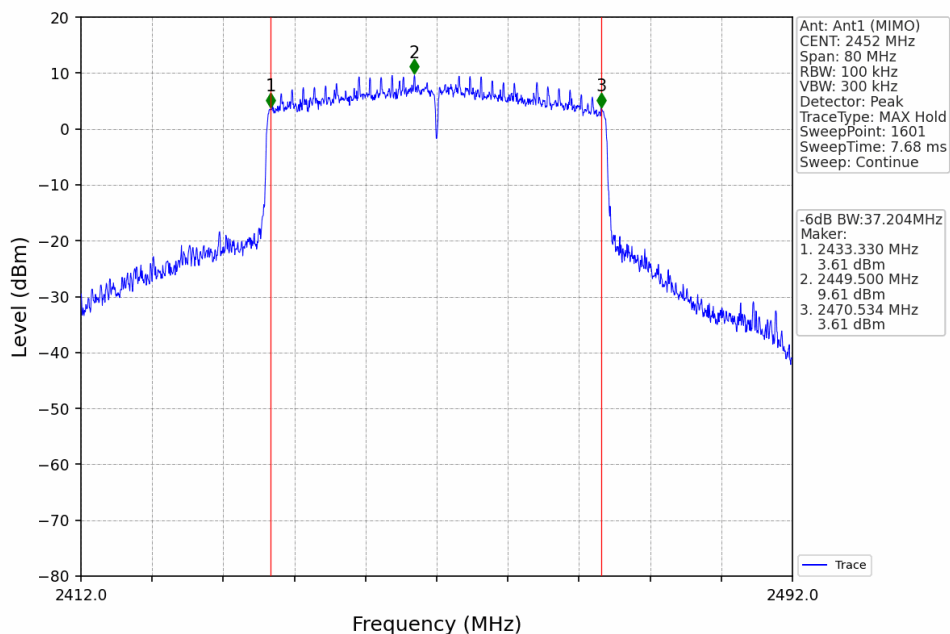
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_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	Maximum Average Conducted Output Power (dBm)						Verdict
					ANT1	ANT2	ANT3	ANT4	MIMO	Limit	
802.11b	MIMO	2412	/	/	20.77	20.94	21.20	21.32	27.08	<=30	Pass
		2437	/	/	20.96	21.11	21.50	21.50	27.29	<=30	Pass
		2462	/	/	20.63	21.21	20.74	21.53	27.06	<=30	Pass
802.11g	MIMO	2412	/	/	20.41	20.79	20.93	21.09	26.83	<=30	Pass
		2437	/	/	20.73	21.00	21.25	21.26	27.09	<=30	Pass
		2462	/	/	20.49	21.13	20.61	21.23	26.90	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	21.45	21.60	21.85	21.96	27.74	<=30	Pass
		2437	/	/	21.59	22.06	22.23	22.10	28.02	<=30	Pass
		2462	/	/	21.35	22.25	21.53	22.11	27.85	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	20.34	20.68	20.98	21.11	26.81	<=30	Pass
		2437	/	/	20.76	21.38	21.41	21.49	27.29	<=30	Pass
		2452	/	/	20.58	21.26	21.12	21.35	27.11	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	21.07	21.34	21.60	21.53	27.41	<=30	Pass
		2437	RU242	Left	21.05	21.35	21.53	21.65	27.42	<=30	Pass
		2462	RU242	Left	20.91	21.58	20.96	21.64	27.31	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	20.88	21.30	21.44	21.64	27.34	<=30	Pass
		2437	RU484	Left	21.29	21.92	22.00	22.03	27.84	<=30	Pass
		2452	RU484	Left	21.07	21.88	21.70	21.81	27.65	<=30	Pass

Note1: Antenna Gain: Antenna1: 4.54dBi, Antenna2: 3.51dBi, Antenna3: 3.99dBi, Antenna4: 4.11dBi

Note2: Directional Gain: 4.54dBi



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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)						Verdict
					ANT1	ANT2	ANT3	ANT4	MIMO	Limit	
802.11b	MIMO	2412	/	/	-1.34	-1.68	-0.16	-1.18	3.69	<=8	Pass
		2437	/	/	-1.64	-1.25	0.19	0.18	4.42	<=8	Pass
		2462	/	/	-1.75	-1.47	-1.69	0.22	3.22	<=8	Pass
802.11g	MIMO	2412	/	/	-4.28	-4.23	-3.57	-3.68	0.65	<=8	Pass
		2437	/	/	-4.74	-3.91	-3.01	-3.48	1.13	<=8	Pass
		2462	/	/	-3.43	-2.50	-1.64	-3.66	1.40	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-2.79	-3.76	-3.19	-1.83	2.69	<=8	Pass
		2437	/	/	-1.69	-2.48	-1.75	-2.87	2.41	<=8	Pass
		2462	/	/	-2.47	-1.23	-3.92	-1.68	2.04	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-7.45	-7.27	-6.49	-6.87	-2.27	<=8	Pass
		2437	/	/	-7.00	-5.64	-6.08	-5.62	-1.71	<=8	Pass
		2452	/	/	-7.01	-5.56	-7.28	-5.89	-1.86	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	-4.84	-4.96	-4.00	-4.55	0.18	<=8	Pass
		2437	RU242	Left	-5.39	-5.07	-4.27	-5.50	-0.08	<=8	Pass
		2462	RU242	Left	-5.49	-4.32	-4.58	-4.51	-0.11	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	-7.35	-7.62	-7.35	-6.12	-2.23	<=8	Pass
		2437	RU484	Left	-7.39	-5.69	-6.70	-6.91	-1.54	<=8	Pass
		2452	RU484	Left	-7.86	-7.08	-6.84	-6.39	-1.79	<=8	Pass



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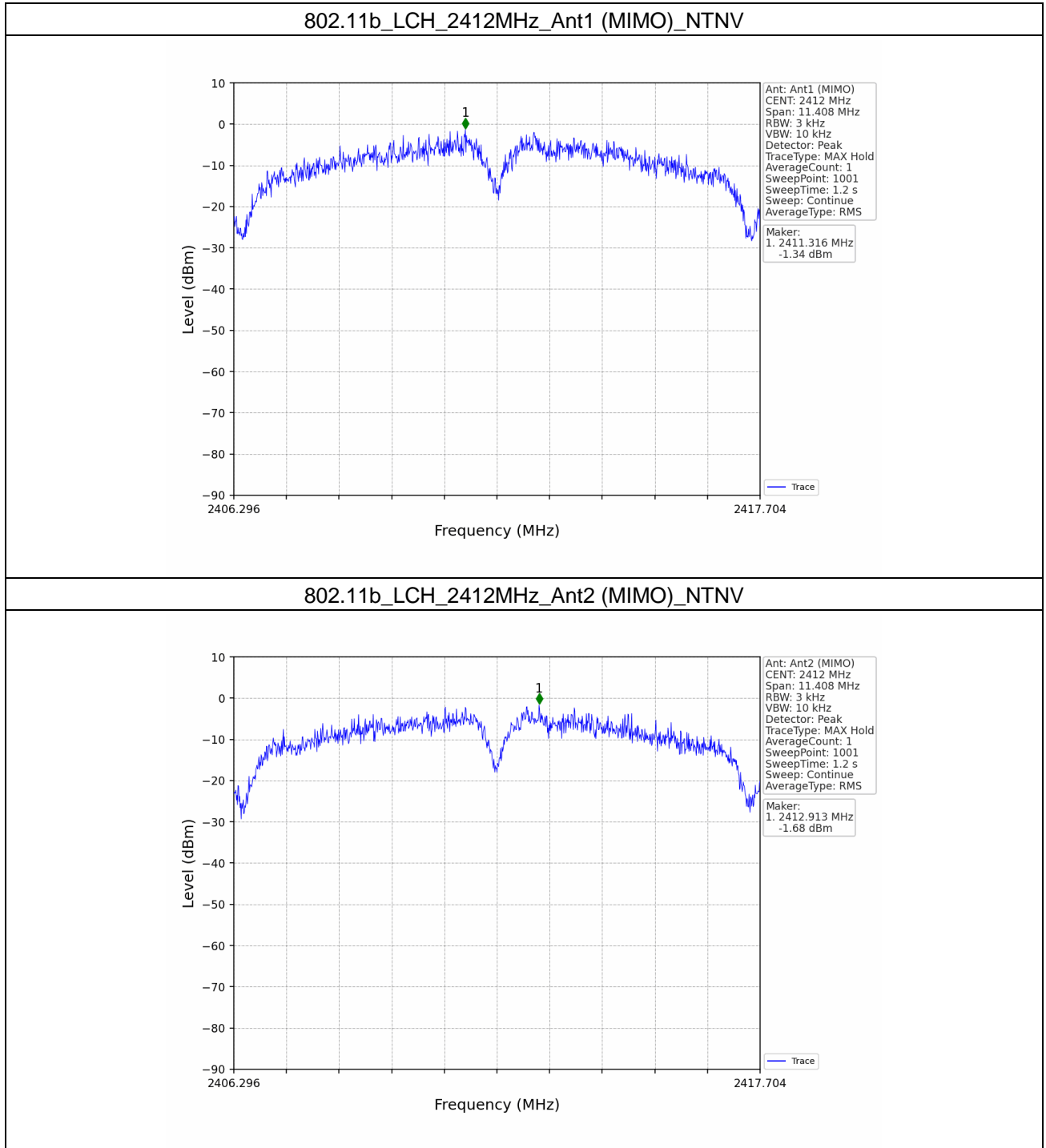
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4.1.2 Test Graph



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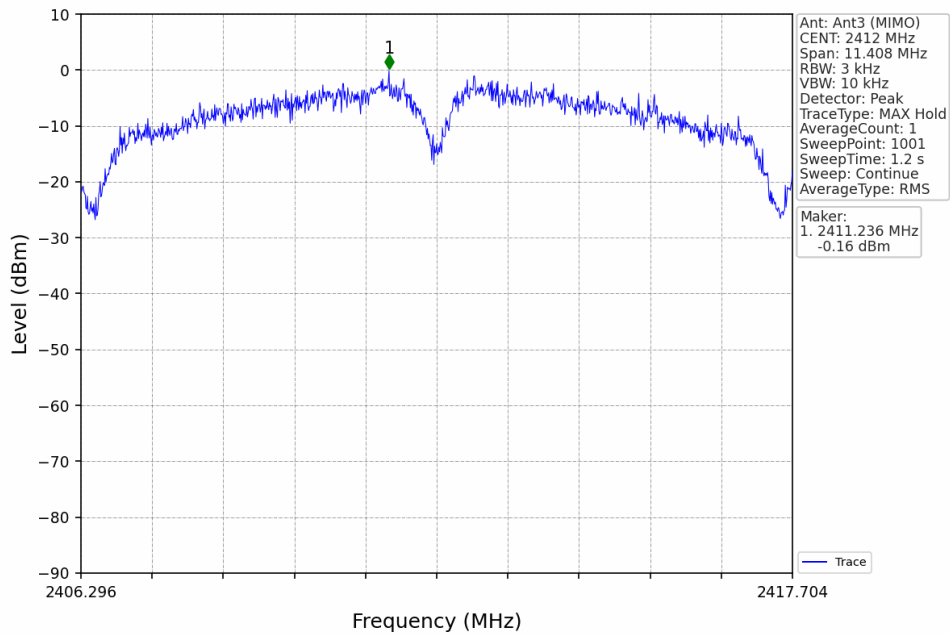
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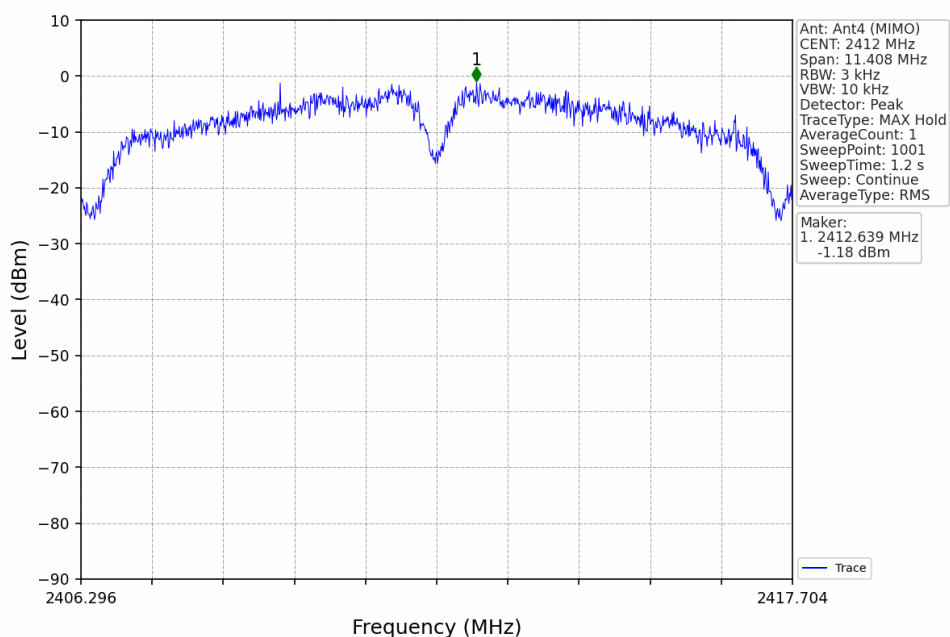
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802.11b_LCH_2412MHz_Ant3 (MIMO)_NTNV



802.11b_LCH_2412MHz_Ant4 (MIMO)_NTNV



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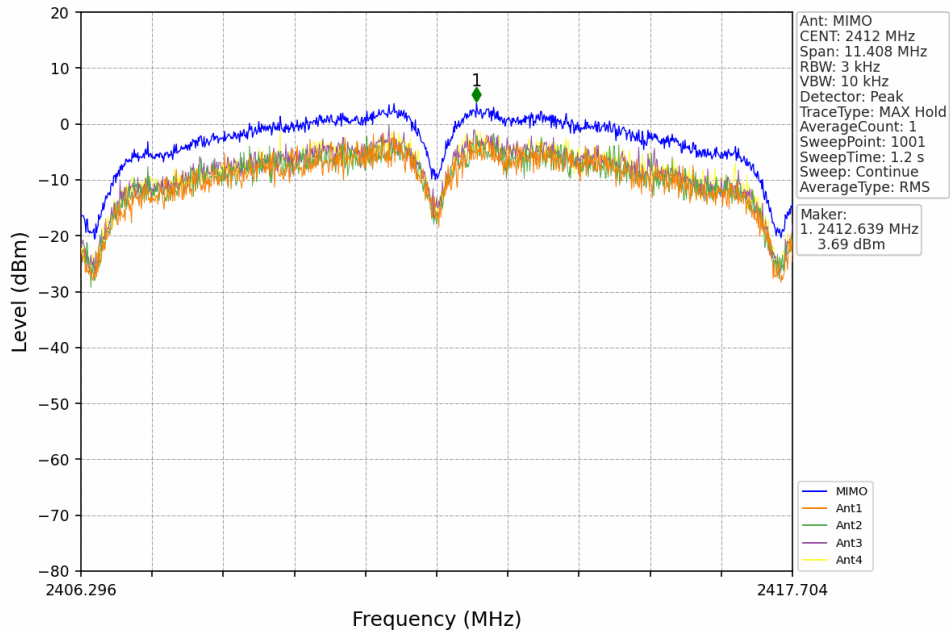
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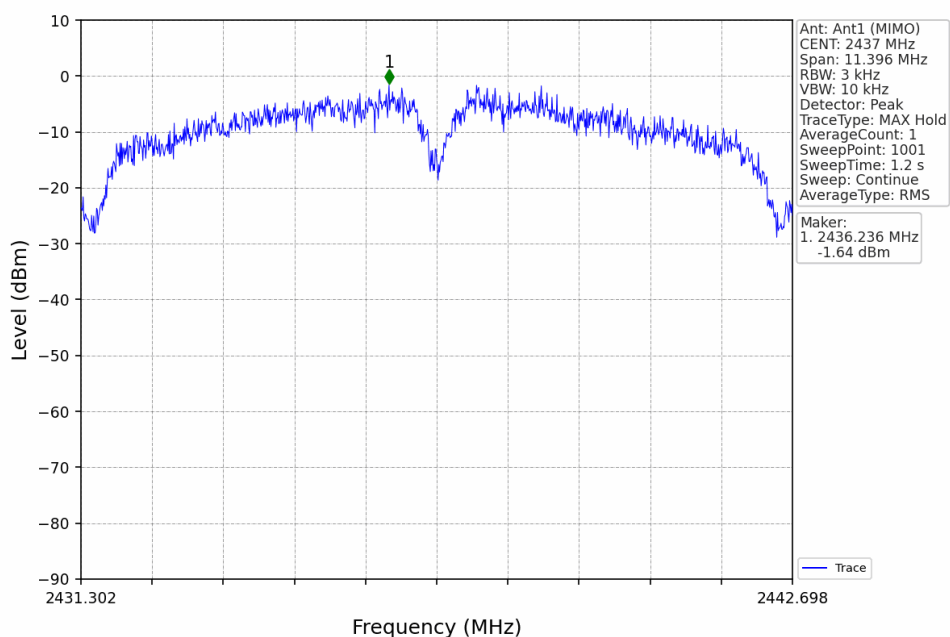
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802.11b_LCH_2412MHz_MIMO_NTNV



802.11b_MCH_2437MHz_Ant1 (MIMO)_NTNV



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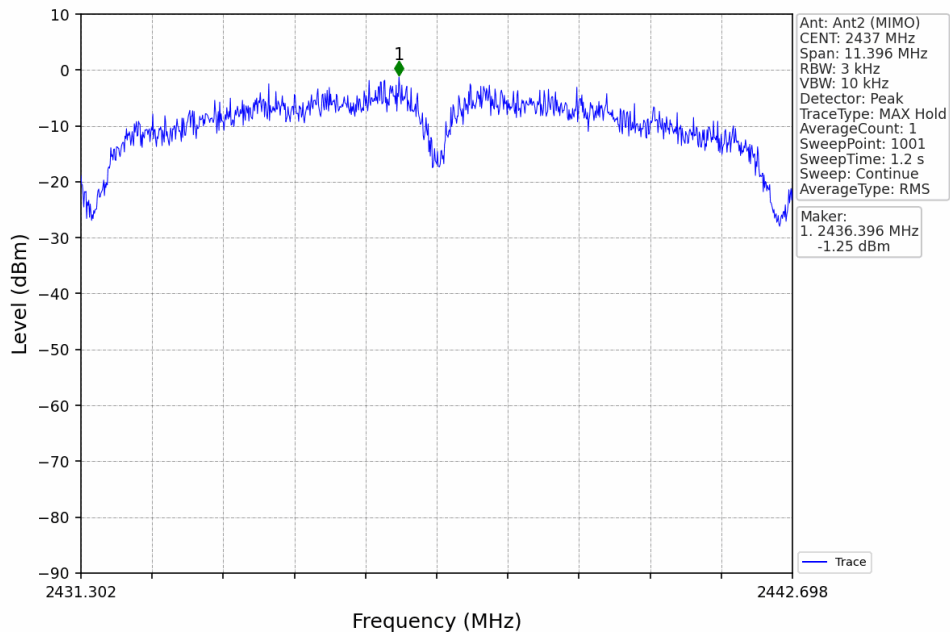
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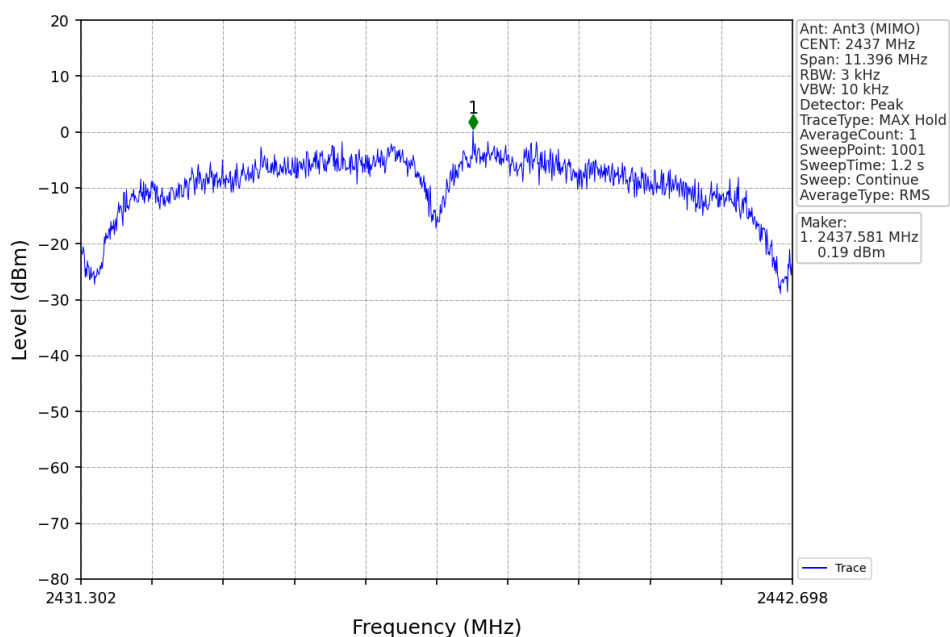
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802.11b_MCH_2437MHz_Ant2 (MIMO)_NTNV



802.11b_MCH_2437MHz_Ant3 (MIMO)_NTNV



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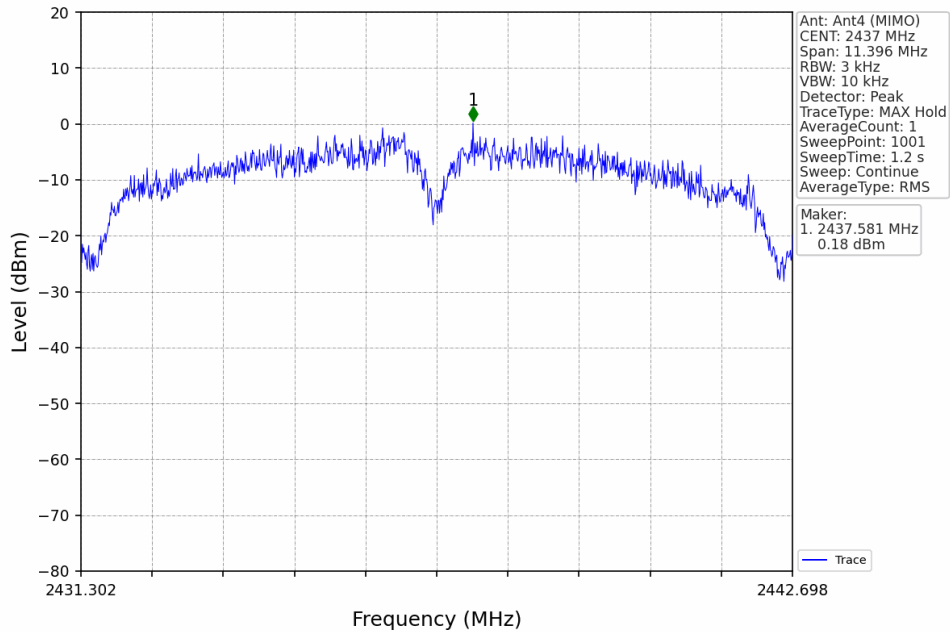
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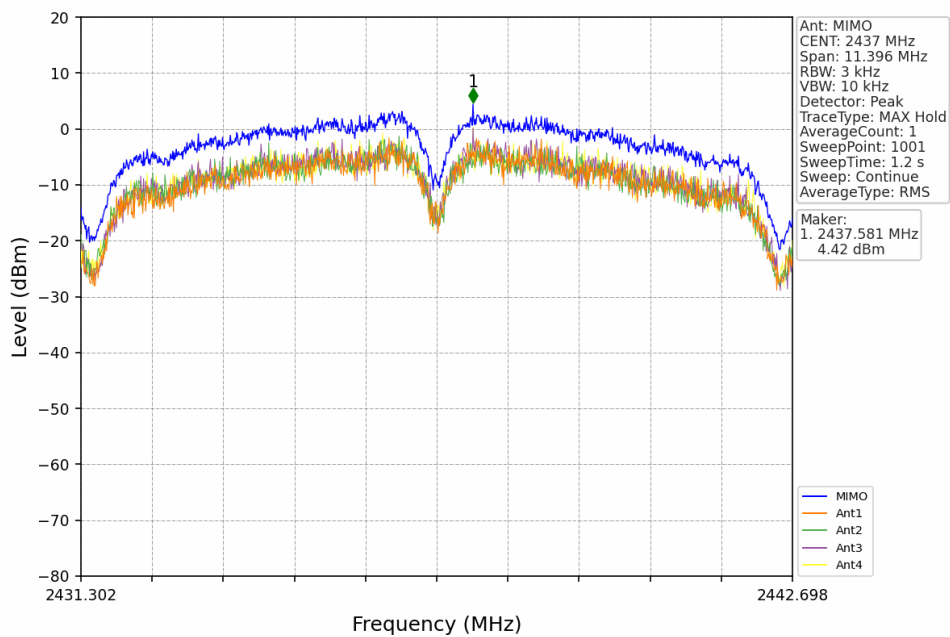
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802.11b_MCH_2437MHz_Ant4 (MIMO)_NTNV



802.11b_MCH_2437MHz_MIMO_NTNV



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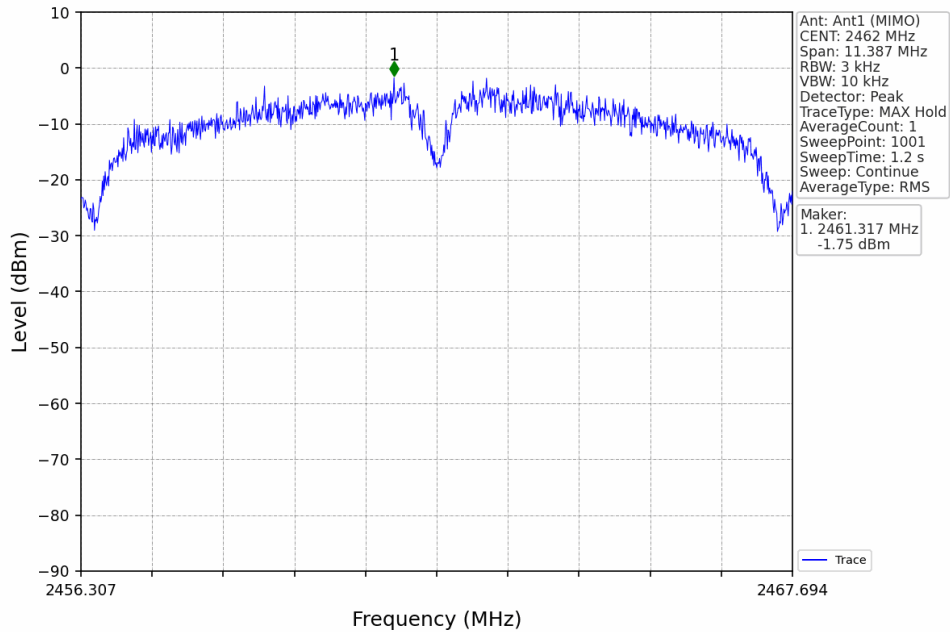
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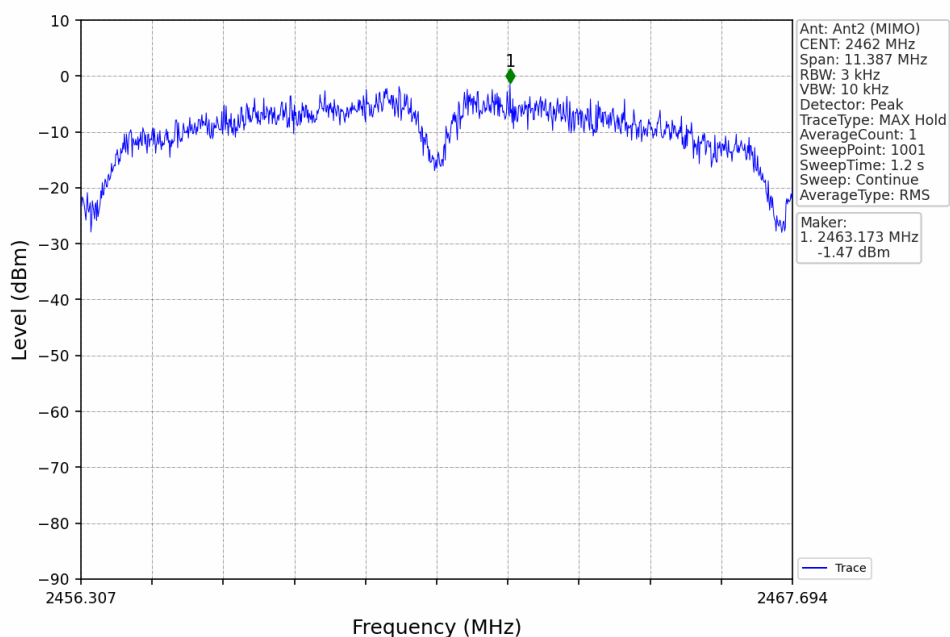
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802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



802.11b_HCH_2462MHz_Ant2 (MIMO)_NTNV



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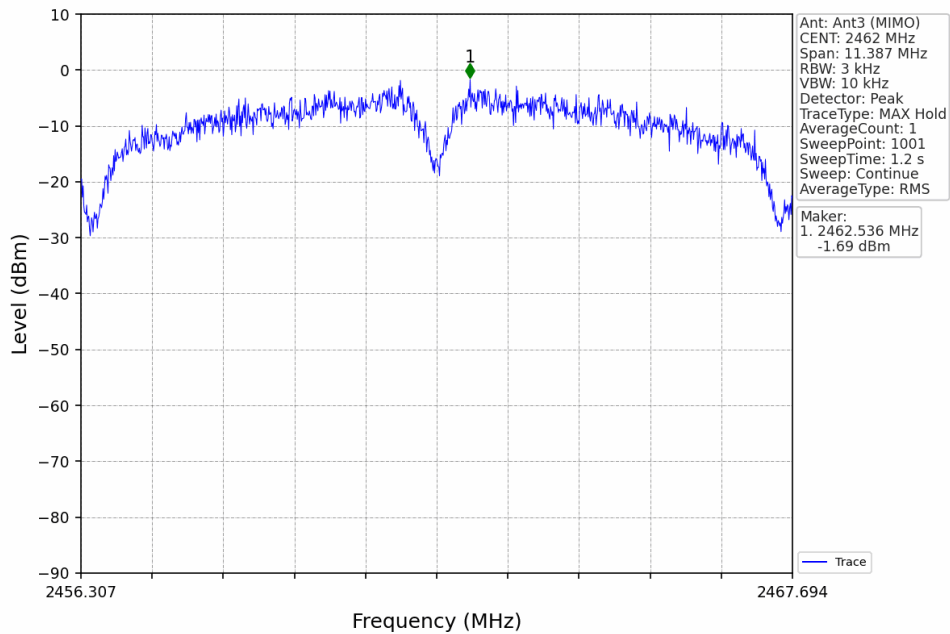
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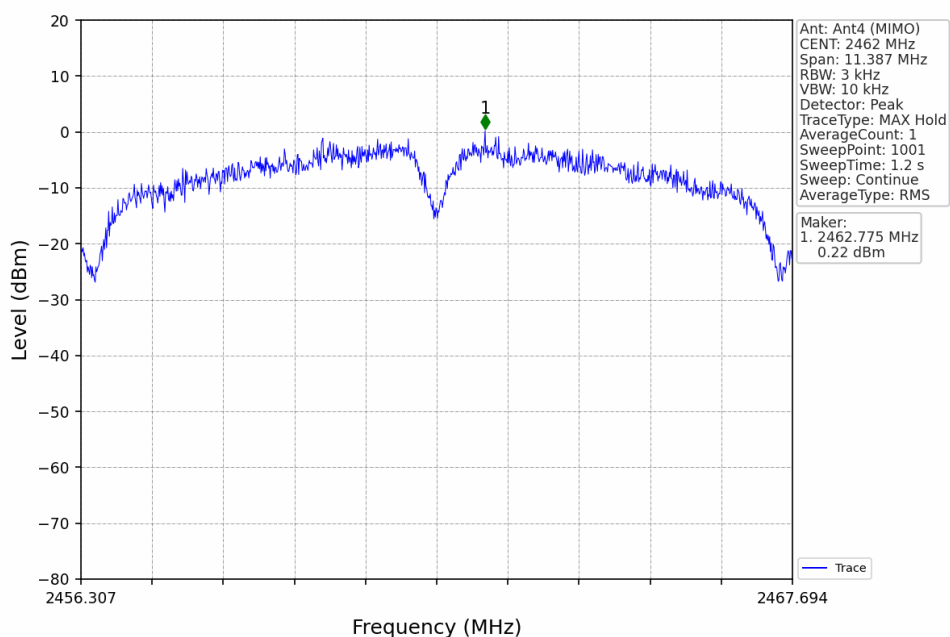
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802.11b_HCH_2462MHz_Ant3 (MIMO)_NTNV



802.11b_HCH_2462MHz_Ant4 (MIMO)_NTNV



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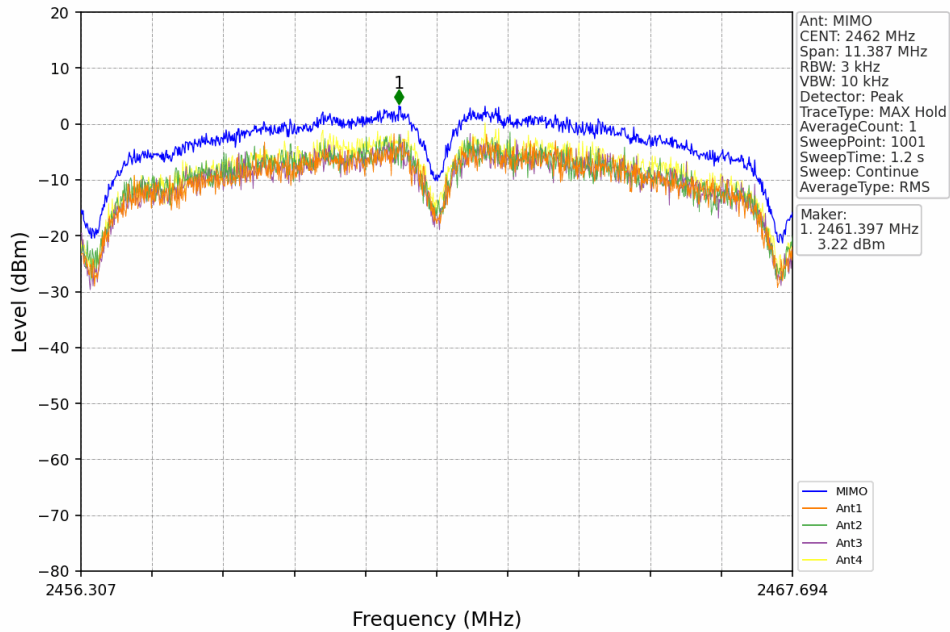
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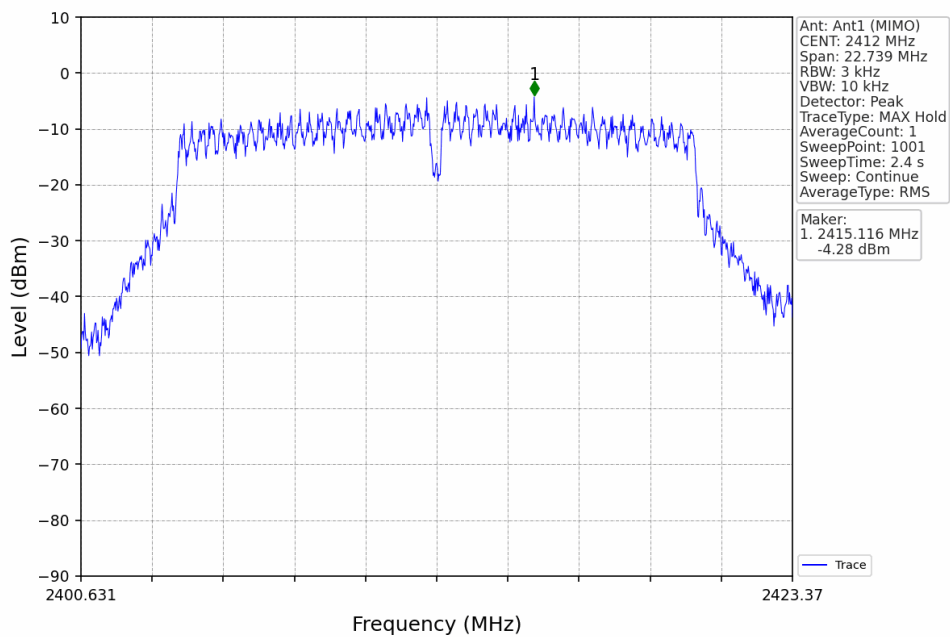
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802.11b_HCH_2462MHz_MIMO_NTNV



802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



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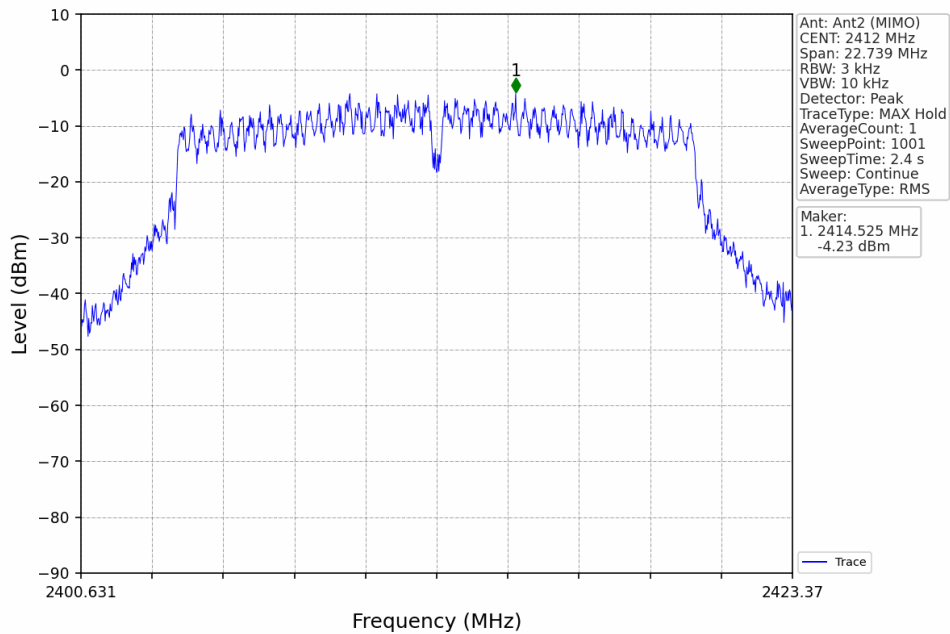
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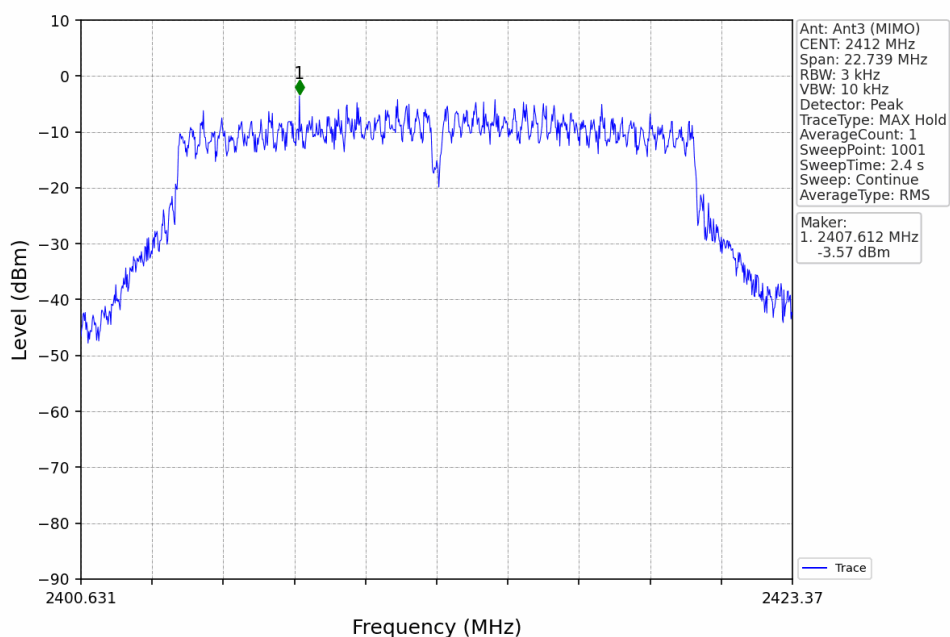
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802.11g_LCH_2412MHz_Ant2 (MIMO)_NTNV



802.11g_LCH_2412MHz_Ant3 (MIMO)_NTNV



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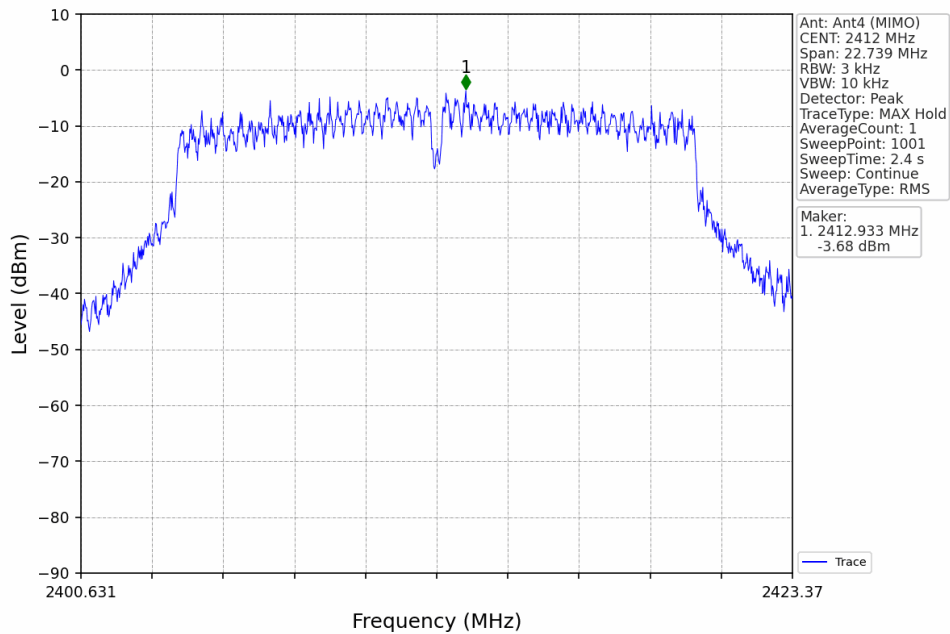
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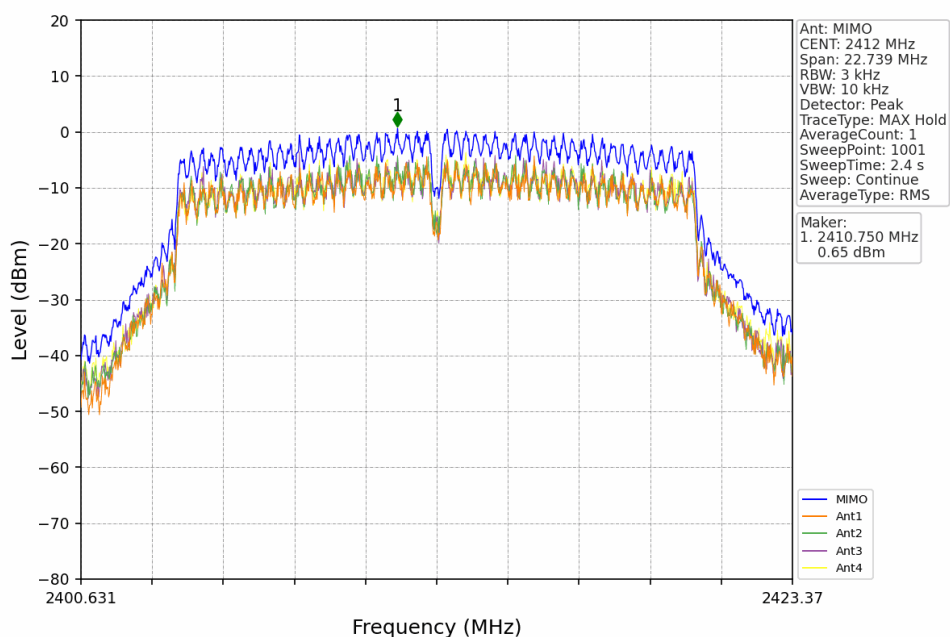
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802.11g_LCH_2412MHz_Ant4 (MIMO)_NTNV



802.11g_LCH_2412MHz_MIMO_NTNV



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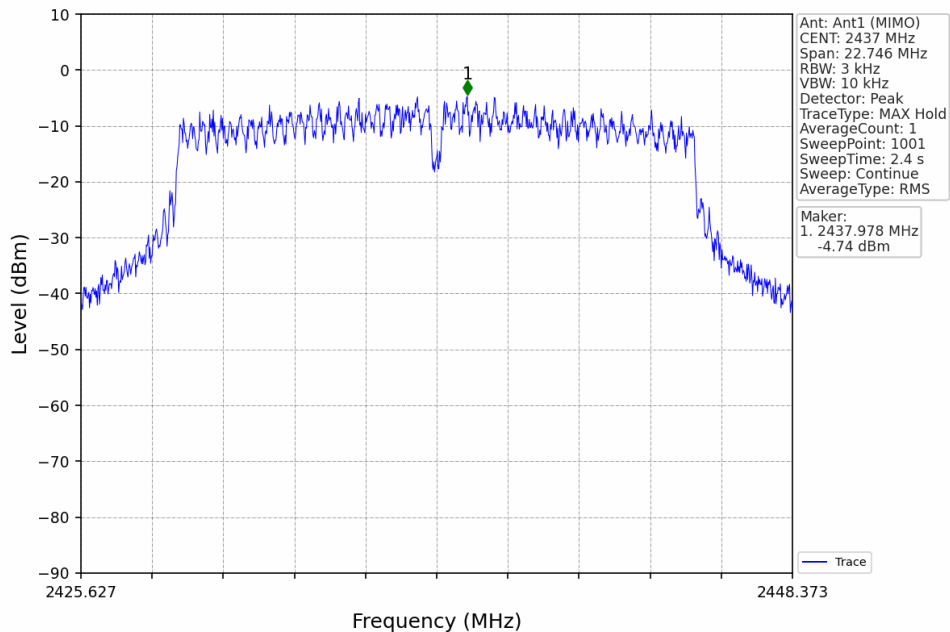
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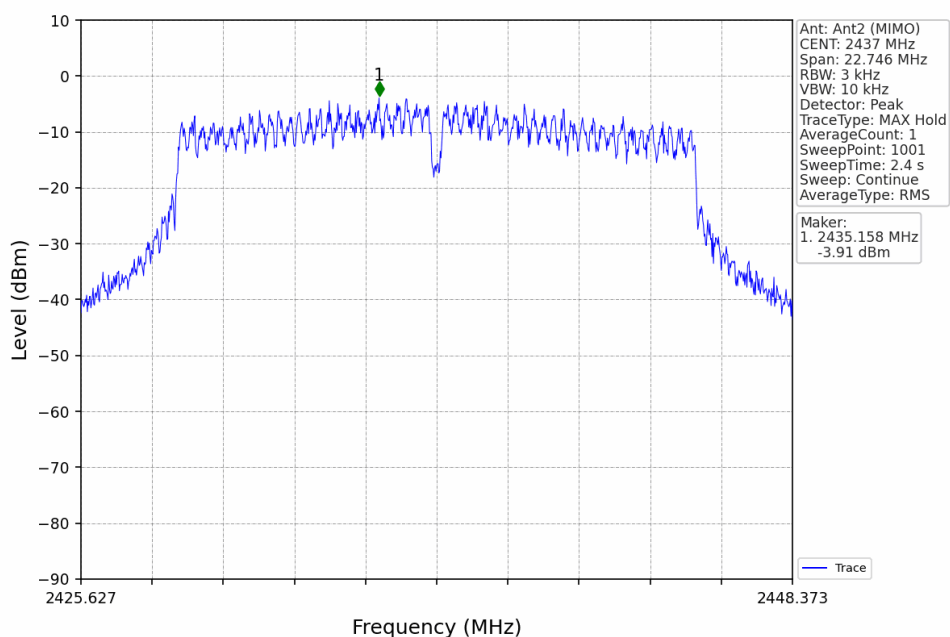
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802.11g_MCH_2437MHz_Ant2 (MIMO)_NTNV



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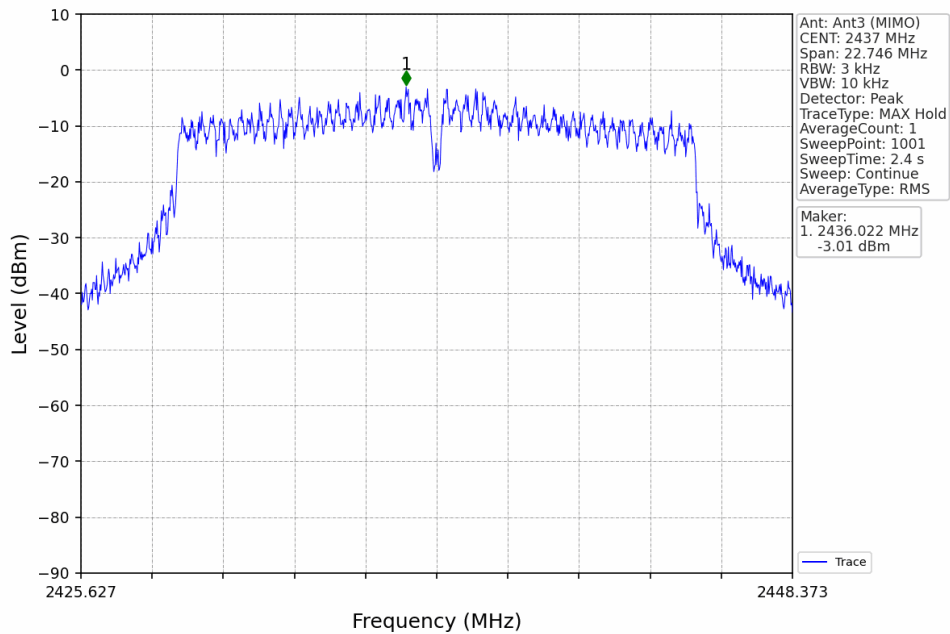
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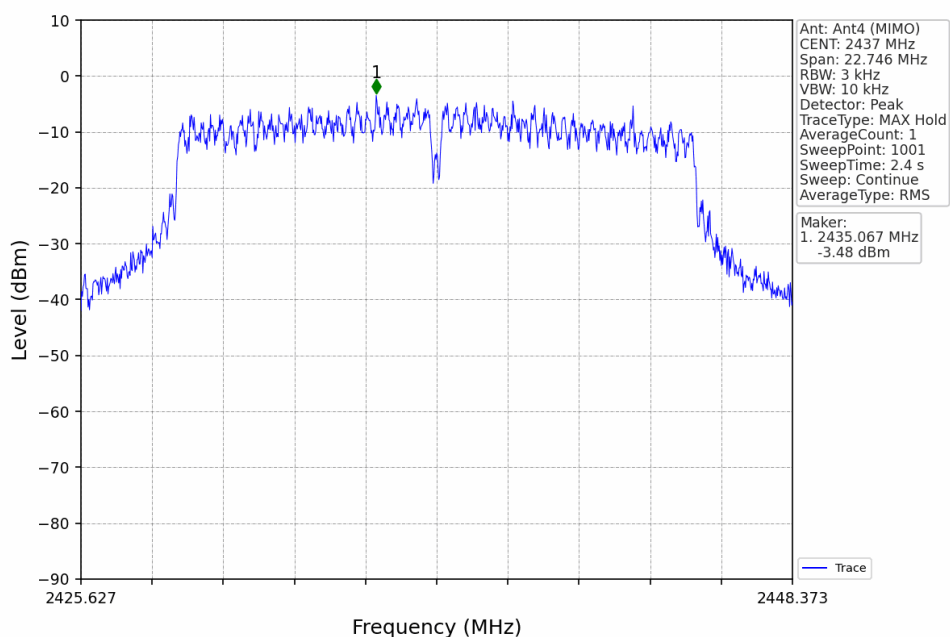
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802.11g_MCH_2437MHz_Ant4 (MIMO)_NTNV



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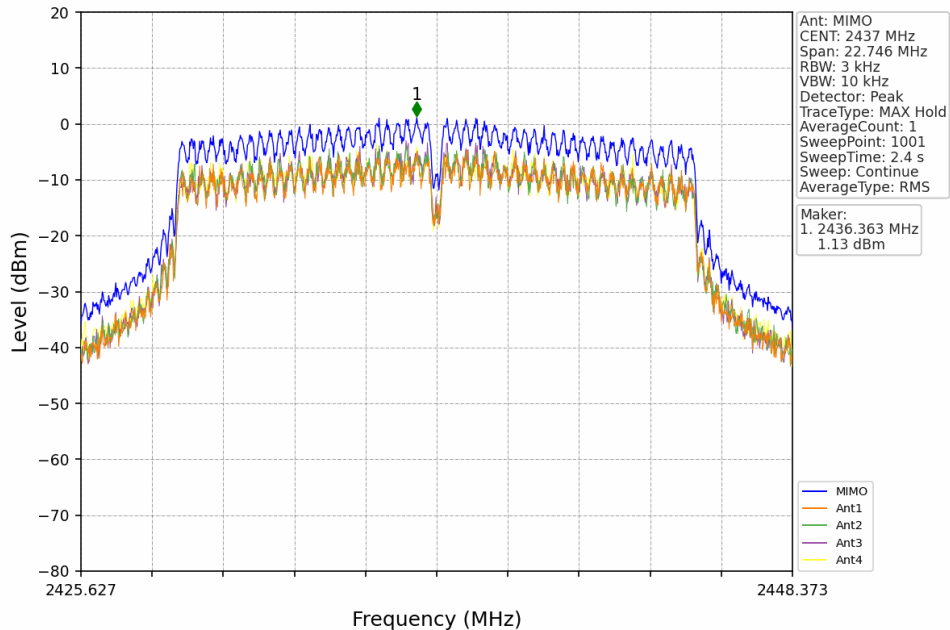
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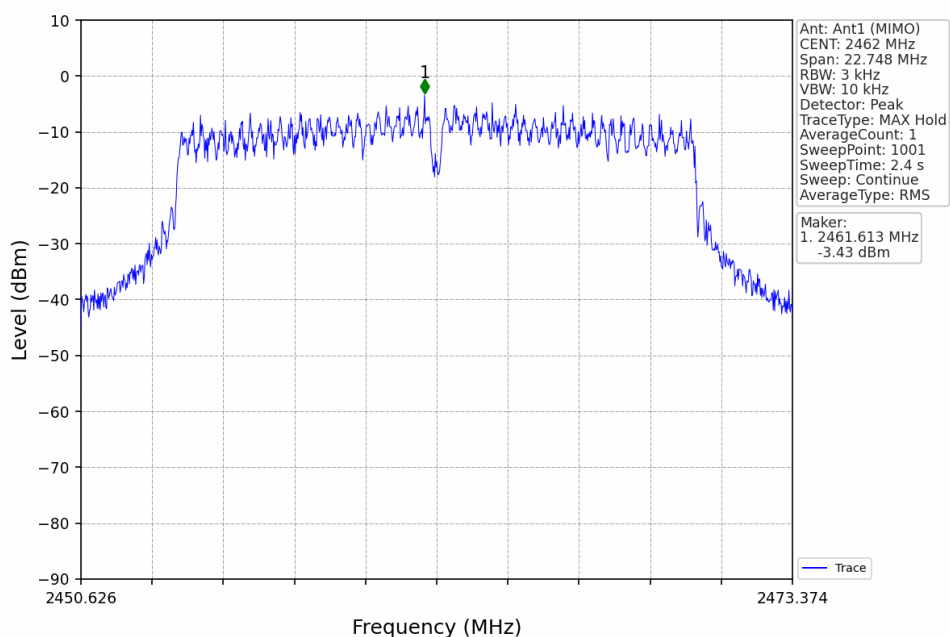
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802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



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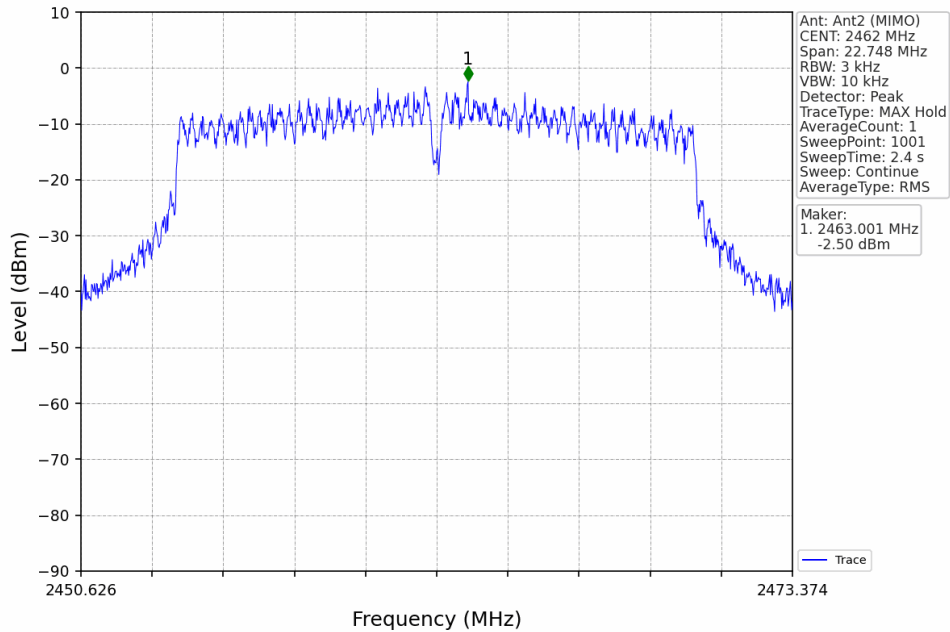
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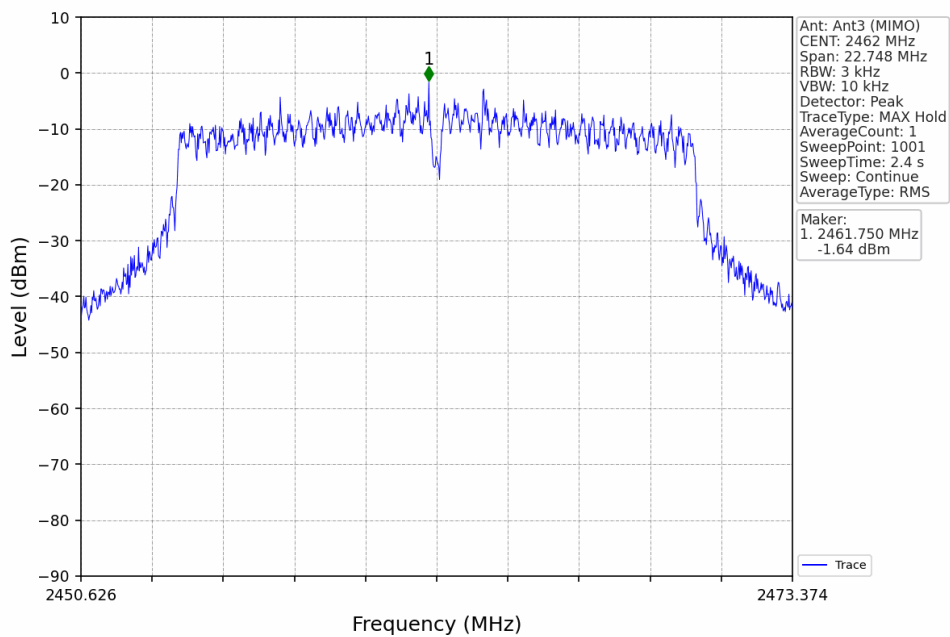
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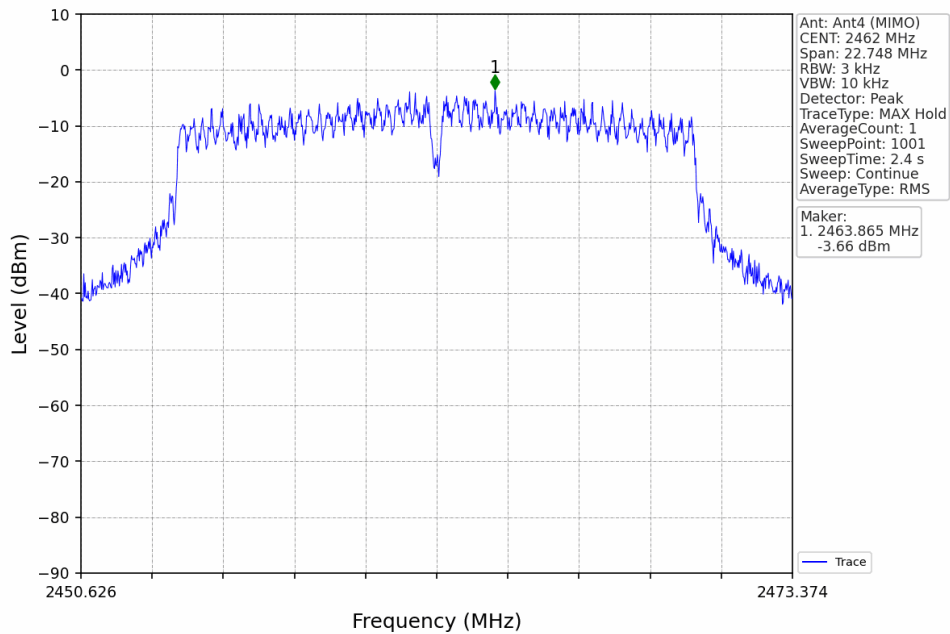
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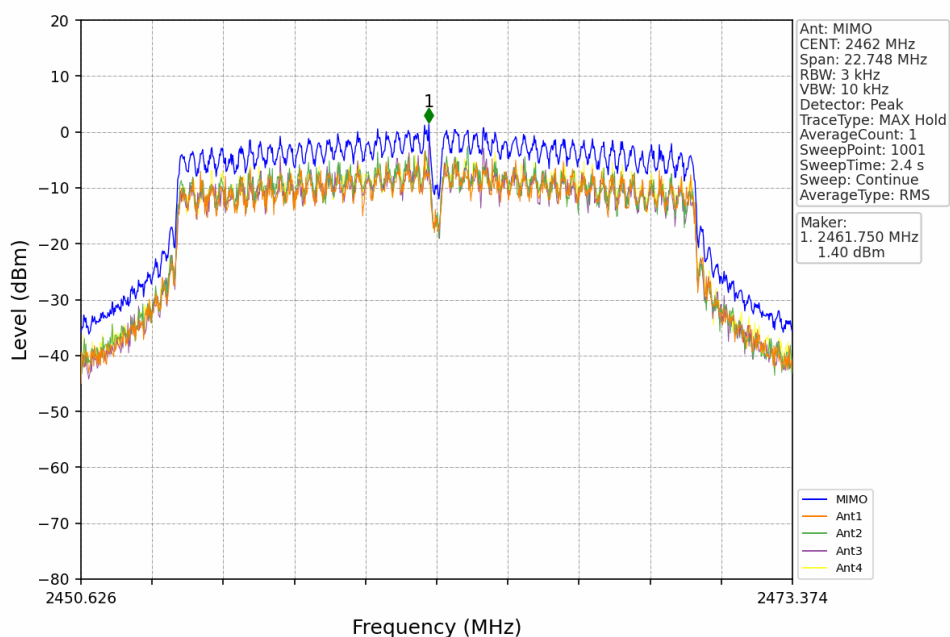
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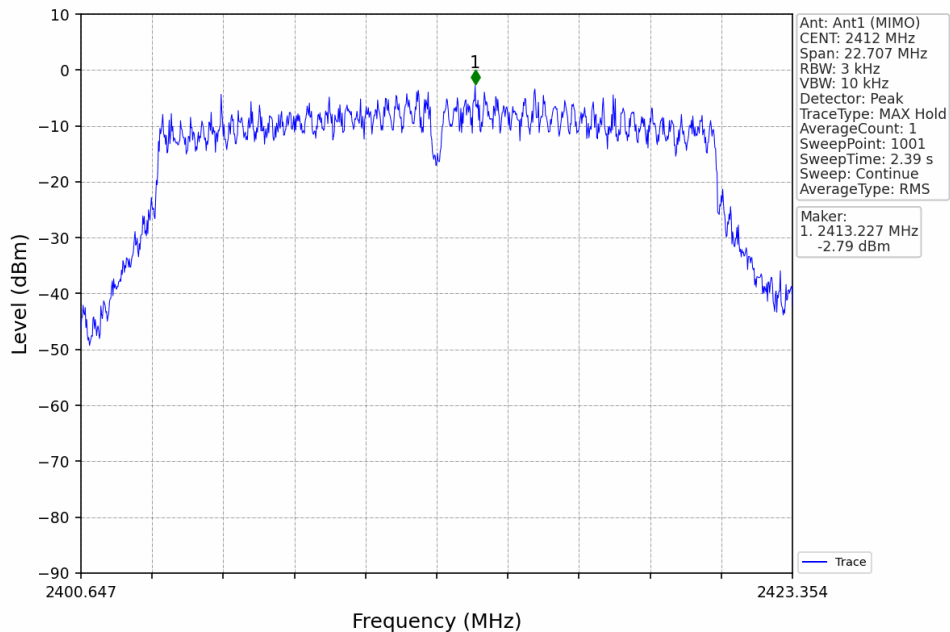
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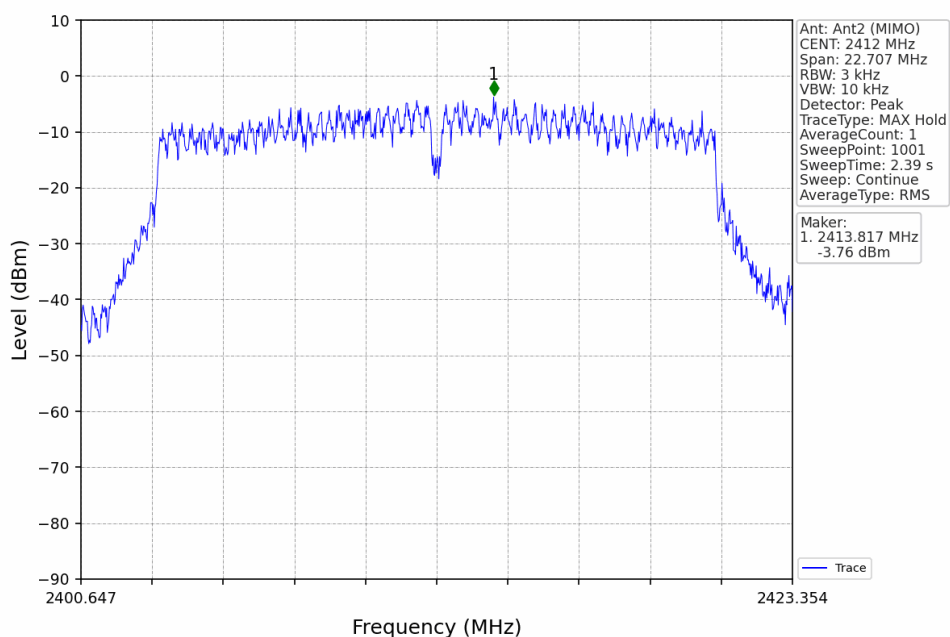
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



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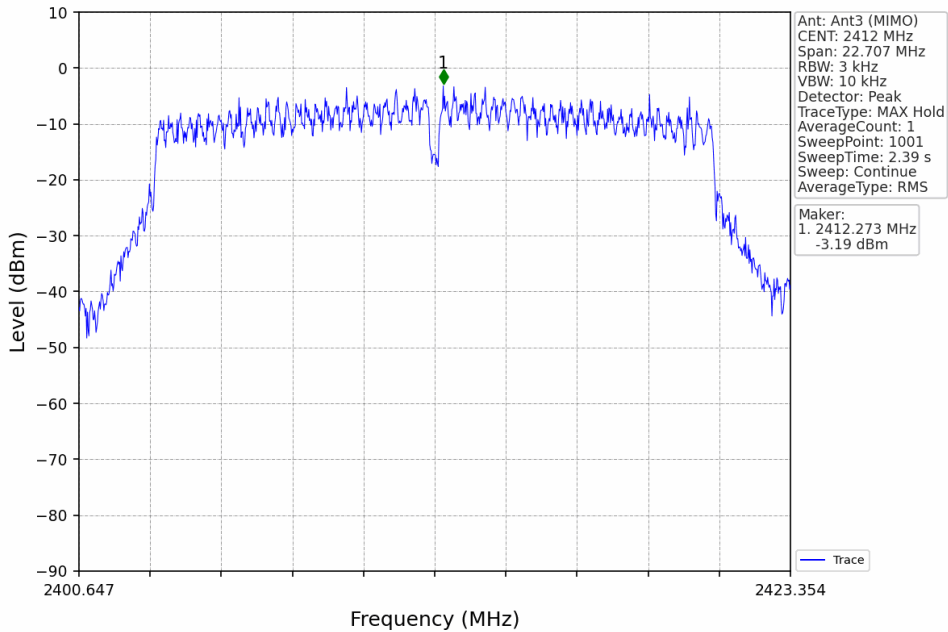
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

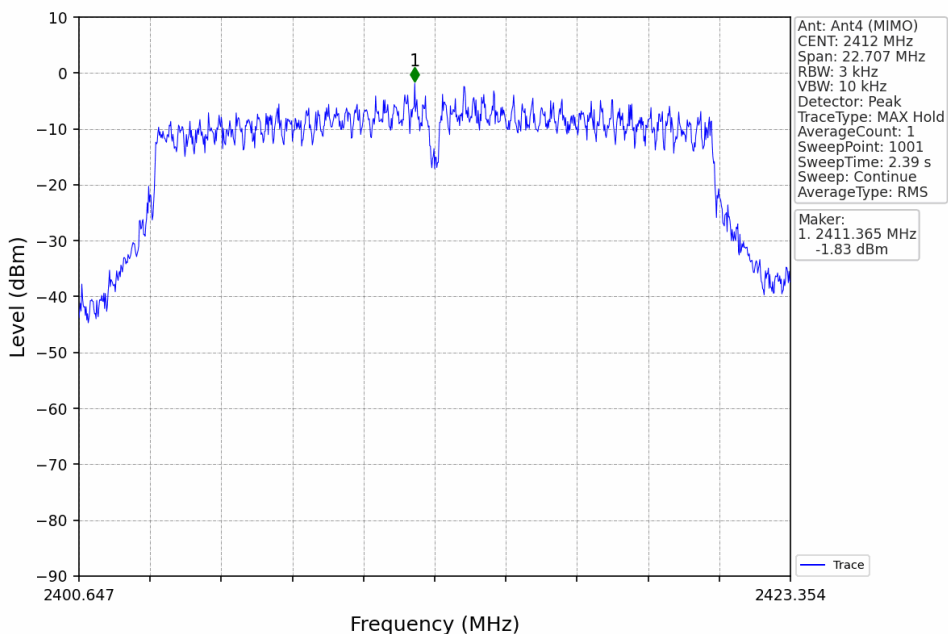
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802.11n(HT20)_LCH_2412MHz_Ant3 (MIMO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant4 (MIMO)_NTNV



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