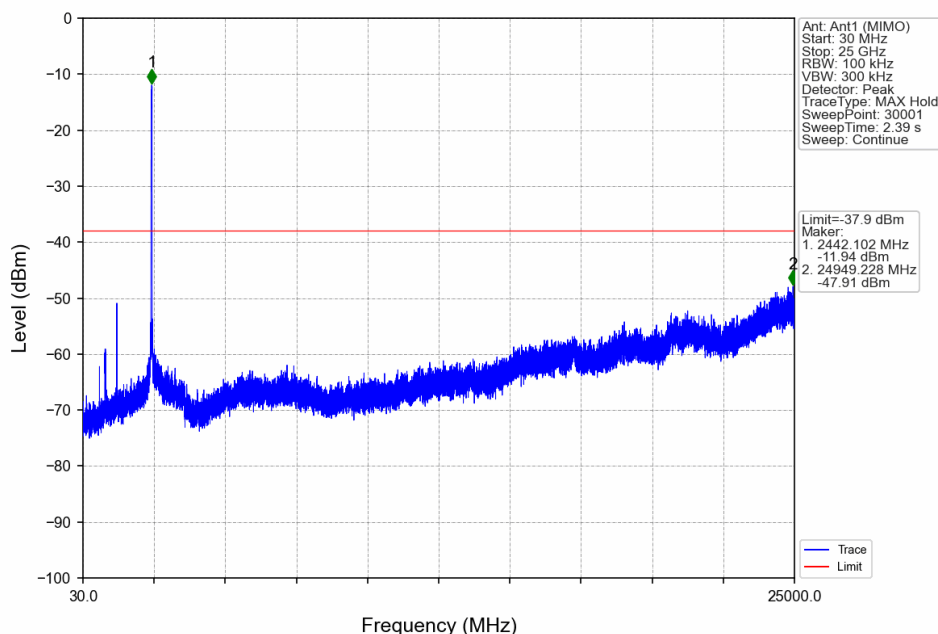
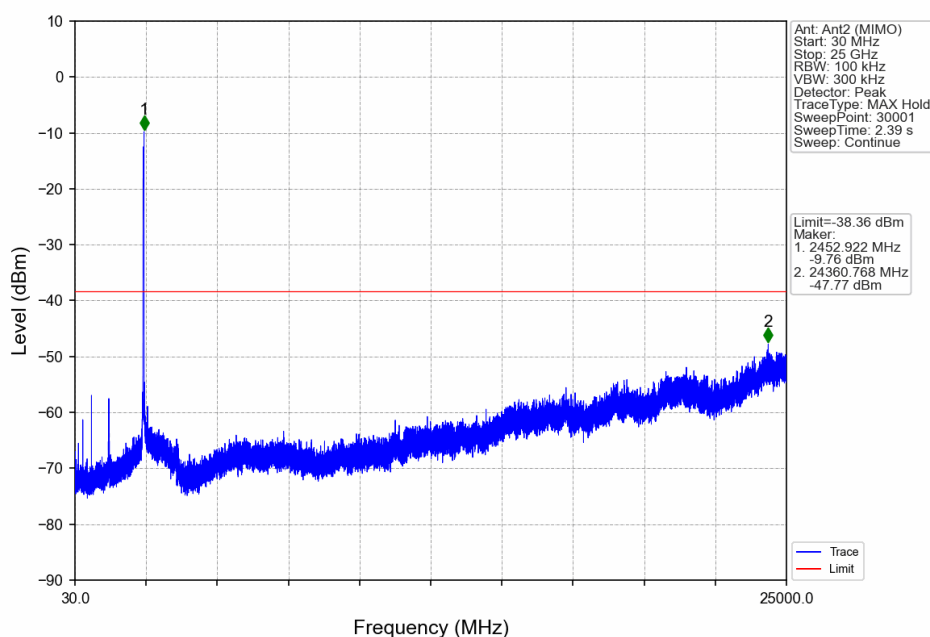


802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



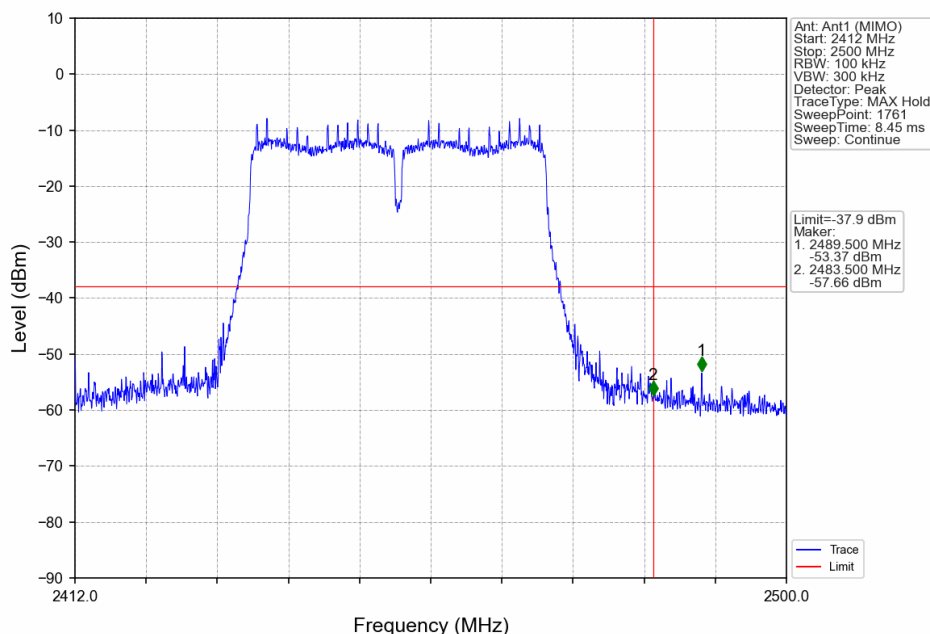
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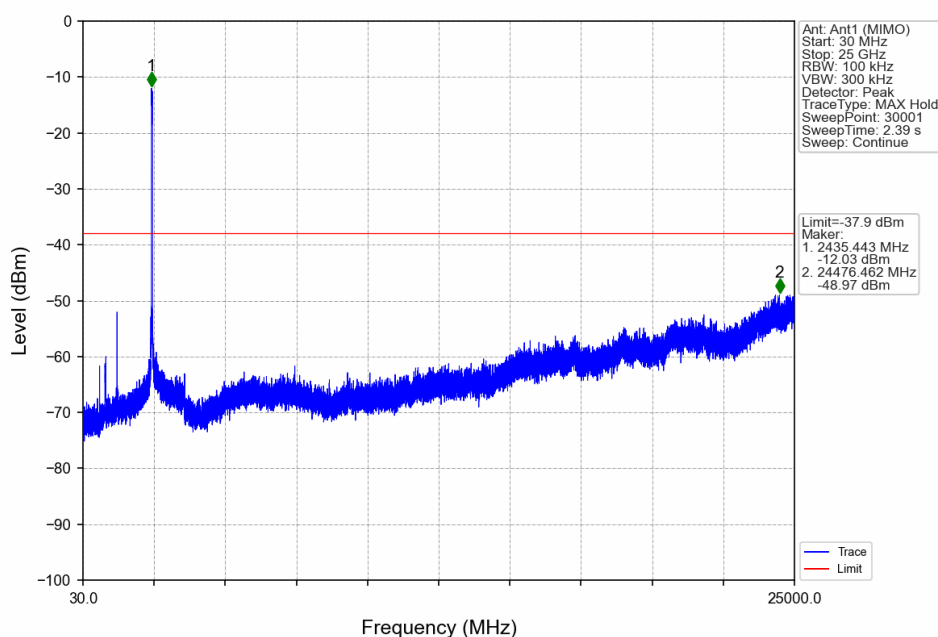
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

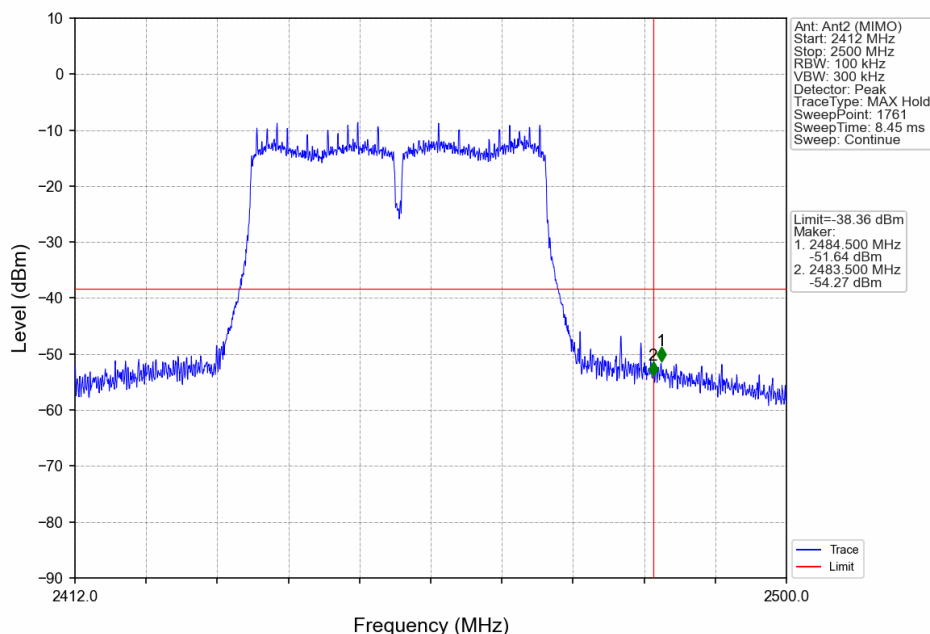
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



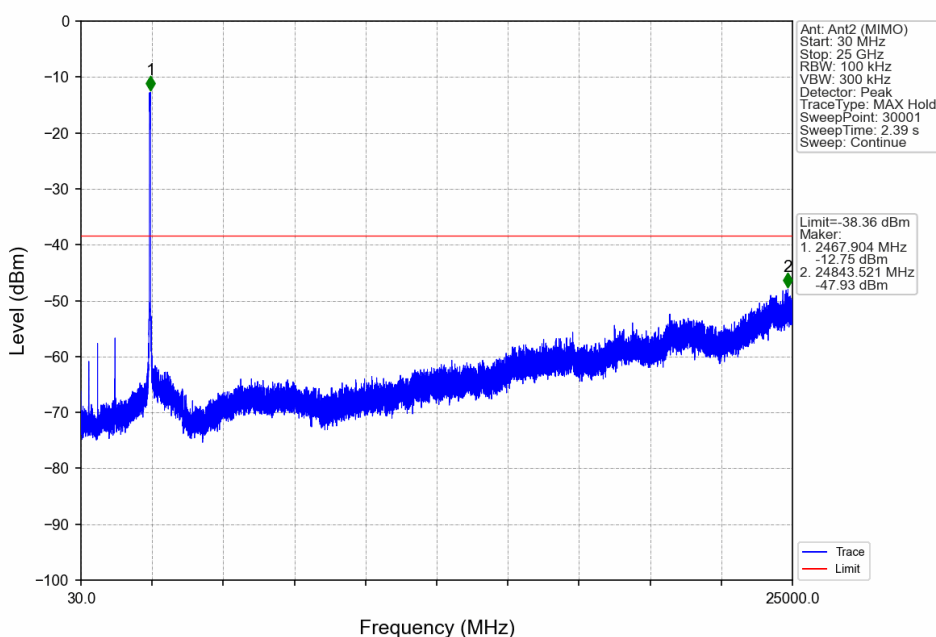
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



For Module: SKIWB800DS2.1

1. Duty Cycle

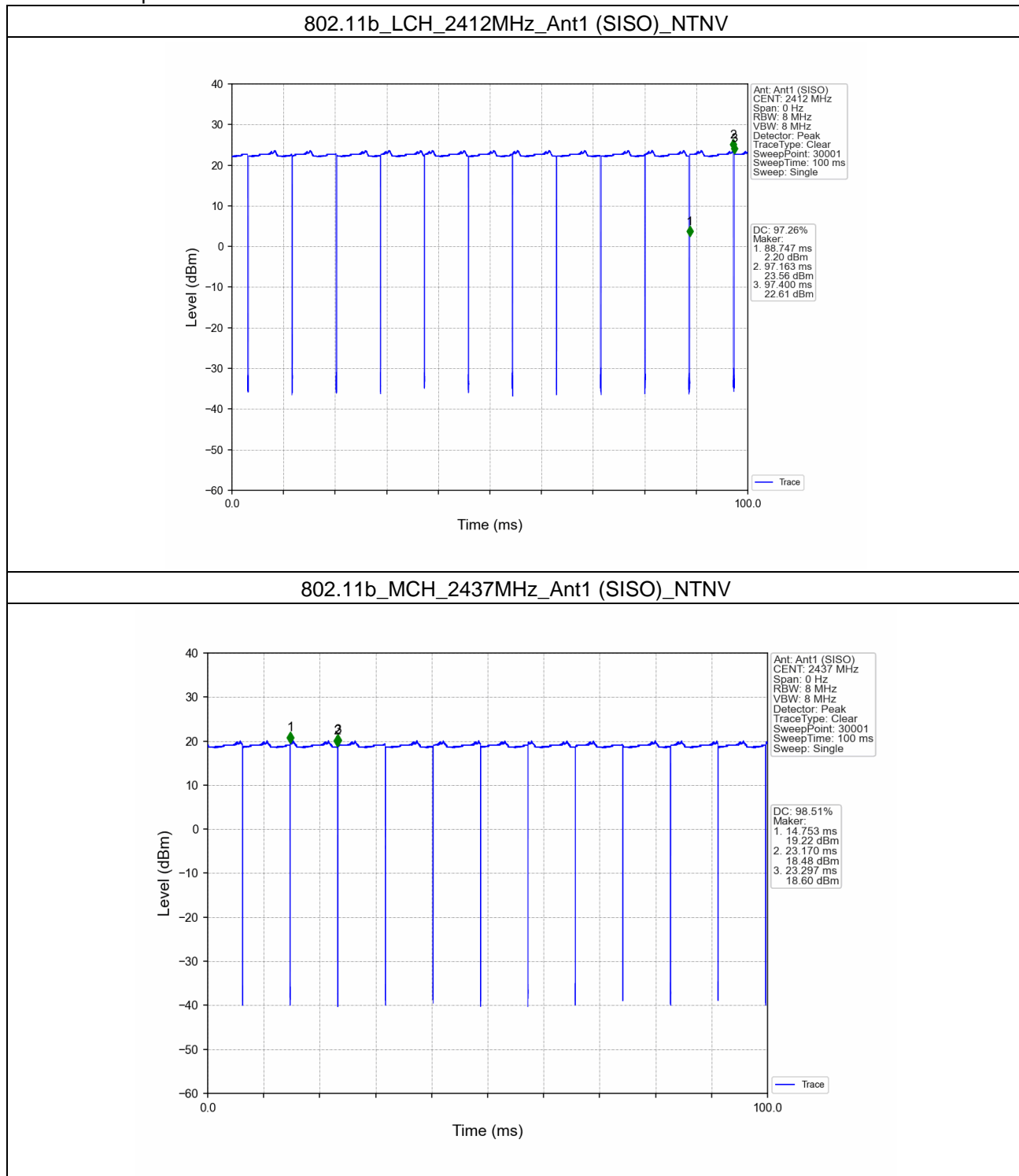
1.1 Ant1

1.1.1 Test Result

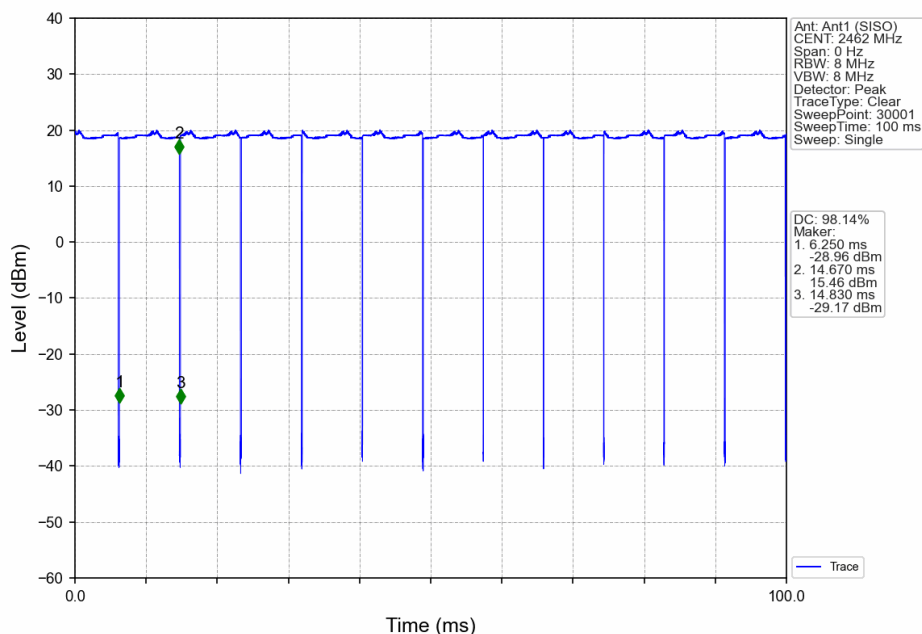
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.416	8.653	97.26	0.12	1.56
		2437	/	/	8.417	8.544	98.51	0.07	1.05
		2462	/	/	8.420	8.580	98.14	0.08	1.43
802.11g	SISO	2412	/	/	1.397	1.565	89.27	0.49	6.04
		2437	/	/	1.404	1.555	90.29	0.44	7.30
		2462	/	/	1.397	1.924	72.61	1.39	21.59
802.11n (HT20)	SISO	2412	/	/	1.305	1.482	88.06	0.55	6.31
		2437	/	/	1.305	1.463	89.20	0.50	4.64
		2462	/	/	1.304	1.939	67.25	1.72	29.02
802.11n (HT40)	SISO	2422	/	/	0.652	0.798	81.70	0.88	10.45
		2437	/	/	0.649	0.798	81.33	0.90	12.73
		2452	/	/	0.648	0.807	80.30	0.95	11.27
802.11ax (HEW20)	SISO	2412	RU242	Left	1.006	1.173	85.76	0.67	8.67
		2437	RU242	Left	1.005	1.155	87.01	0.60	8.20
		2462	RU242	Left	1.005	1.182	85.03	0.70	7.03
802.11ax (HEW40)	SISO	2422	RU484	Left	0.530	0.679	78.06	1.08	11.89
		2437	RU484	Left	0.530	0.680	77.94	1.08	14.81
		2452	RU484	Left	0.530	0.707	74.96	1.25	13.51



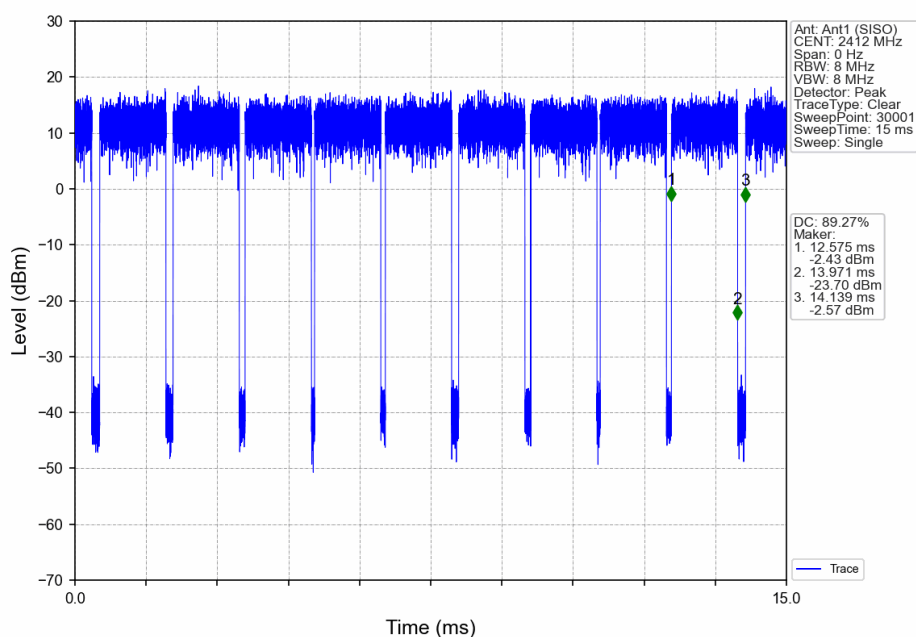
1.1.2 Test Graph



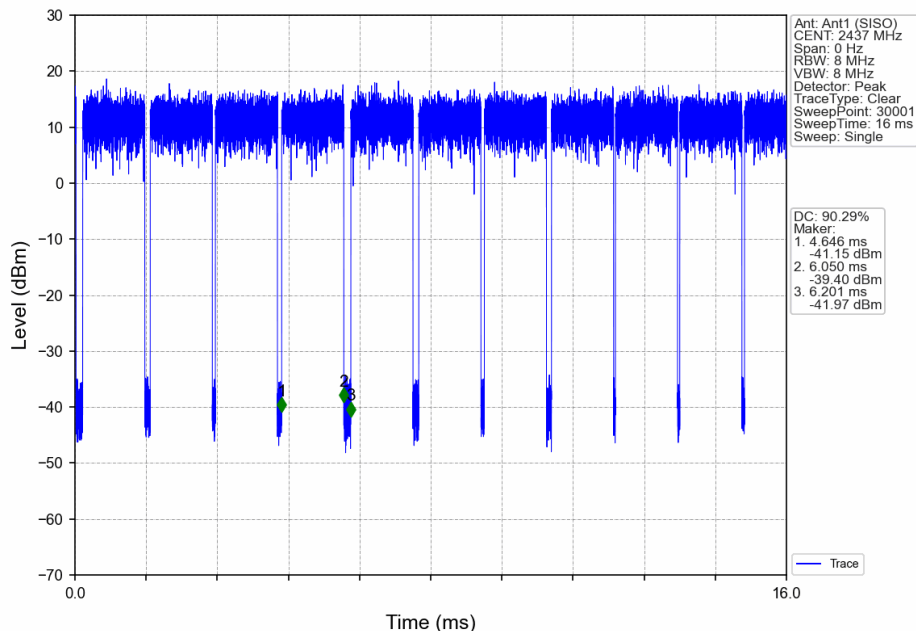
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



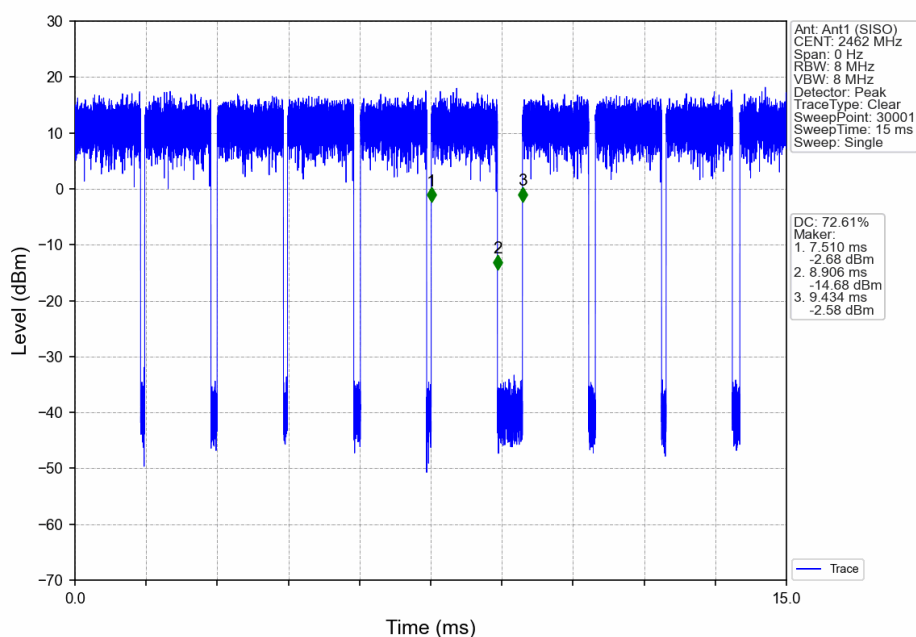
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



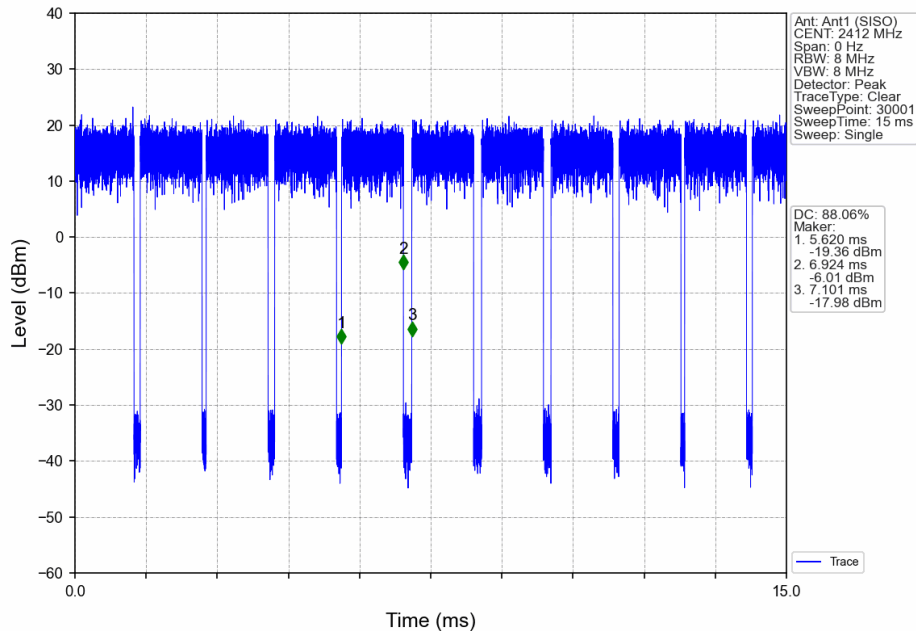
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



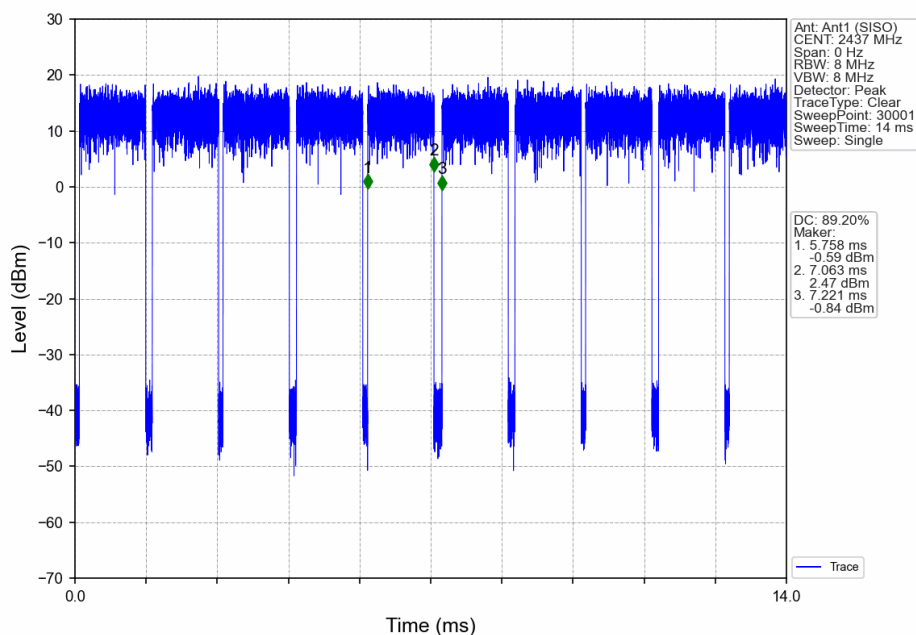
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



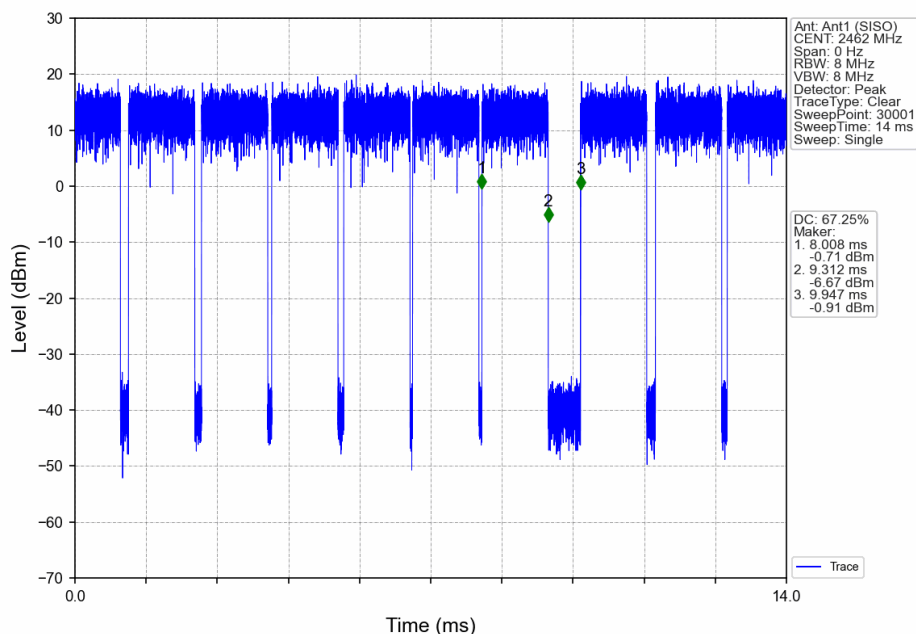
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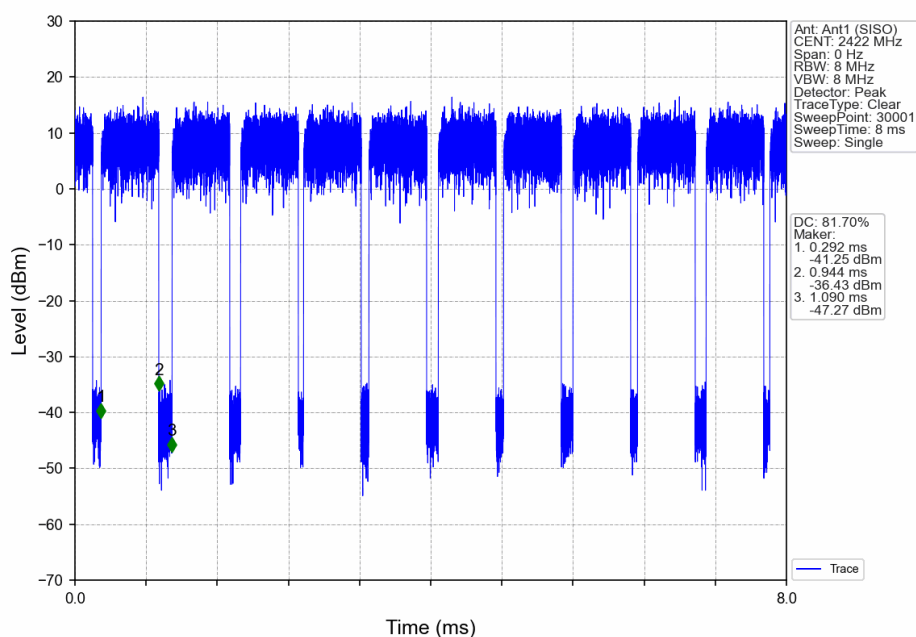
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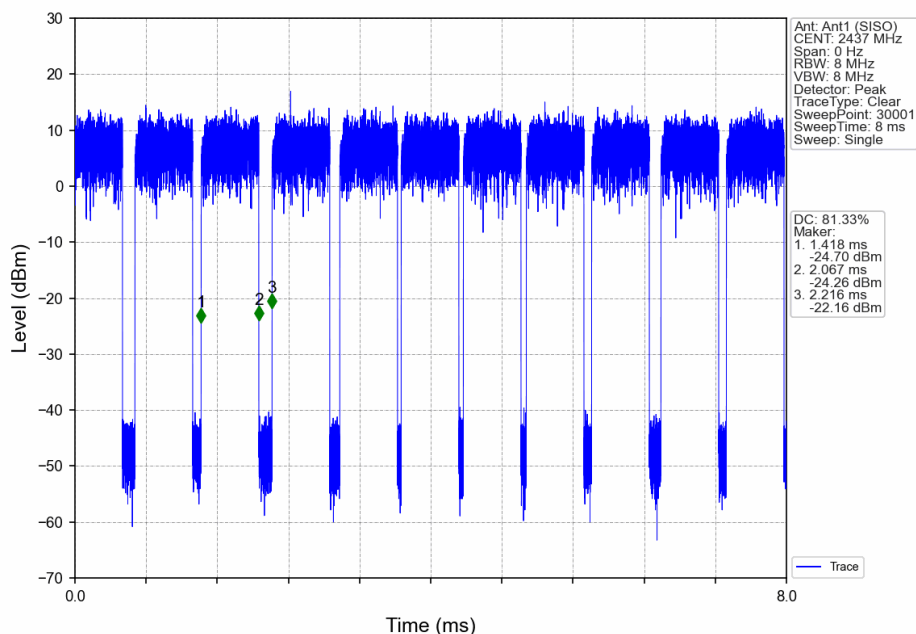
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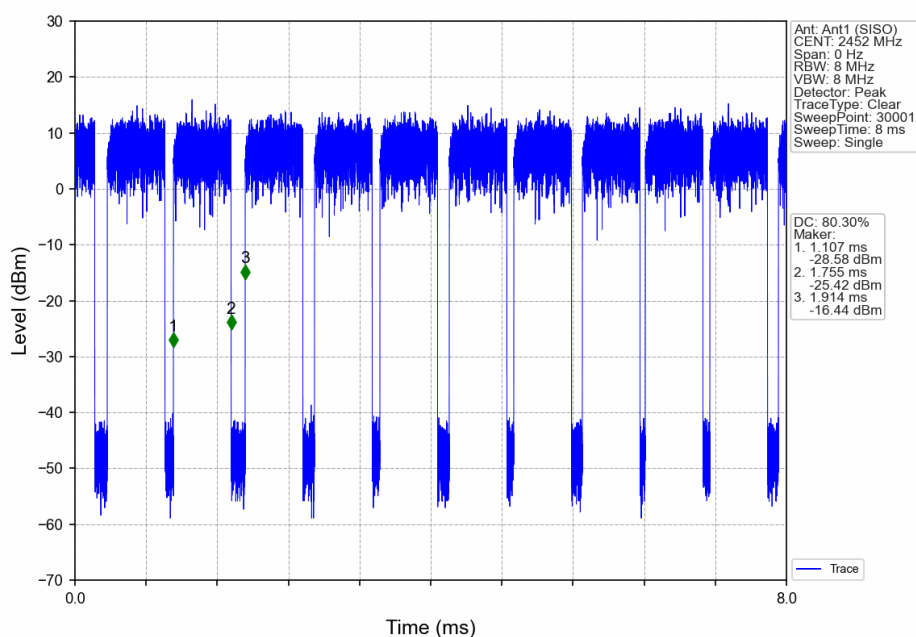
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



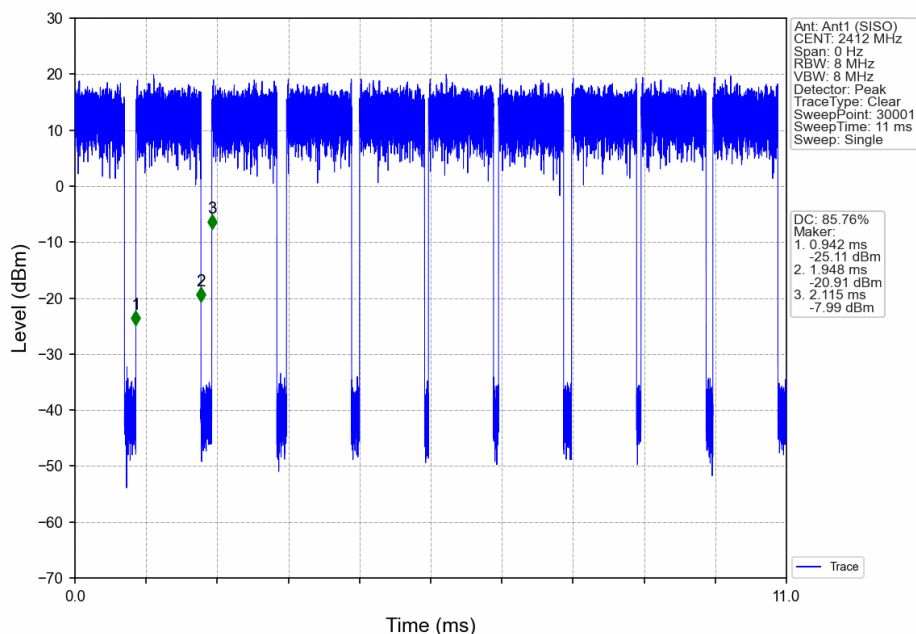
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



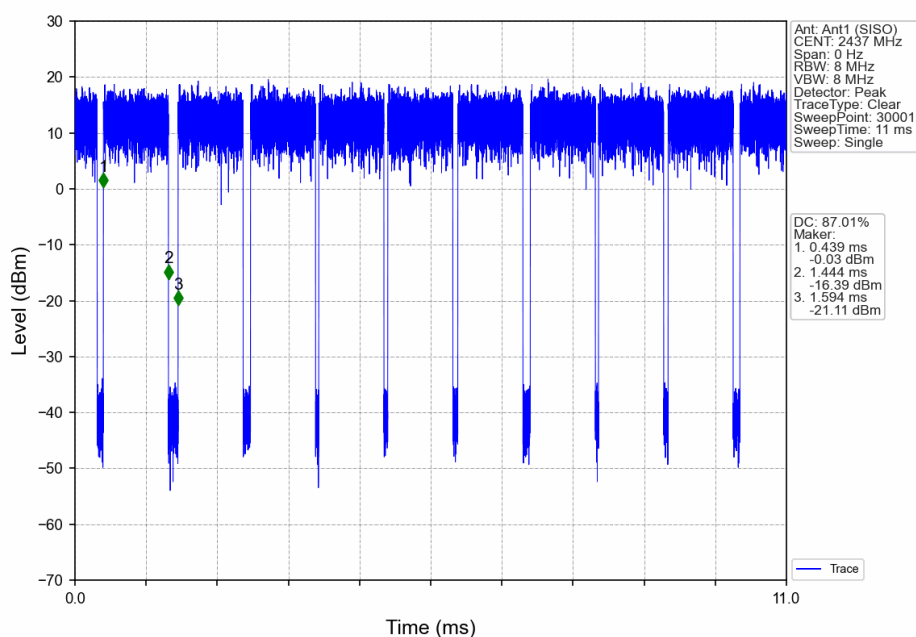
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



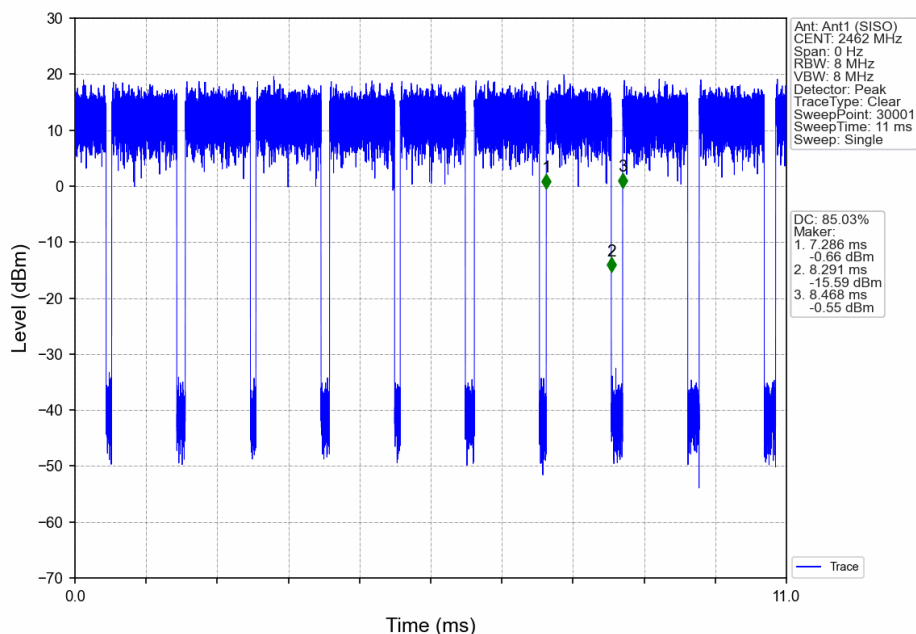
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



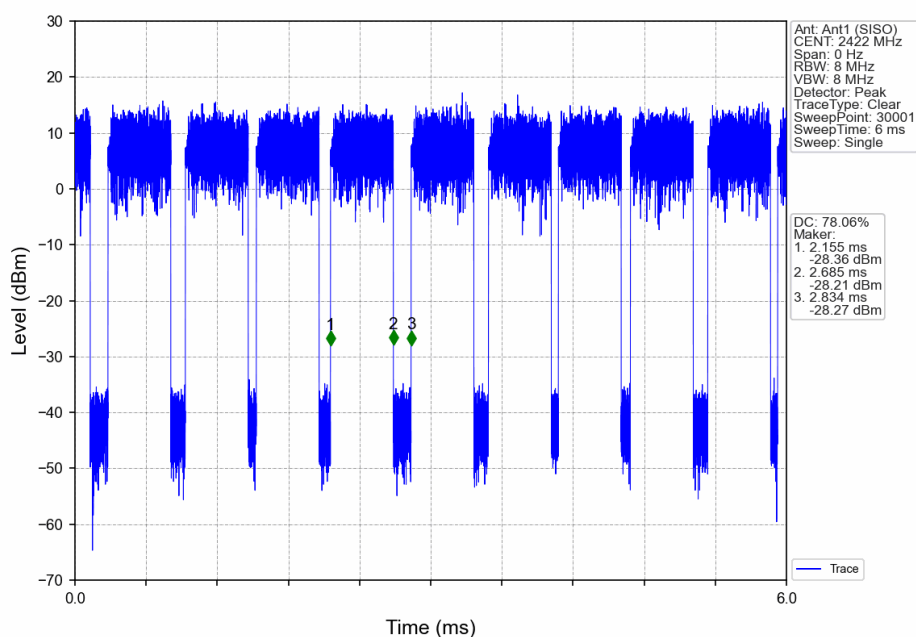
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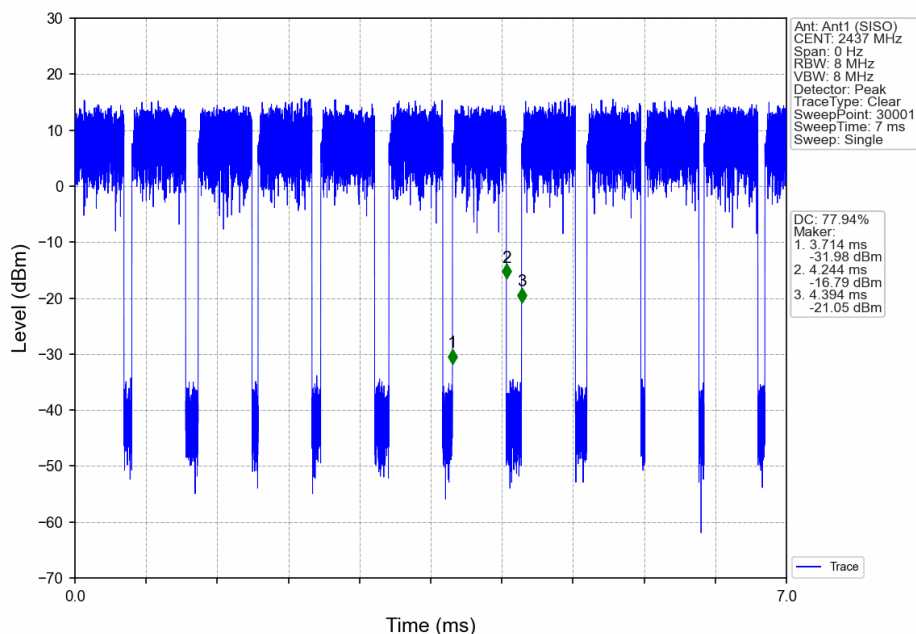
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



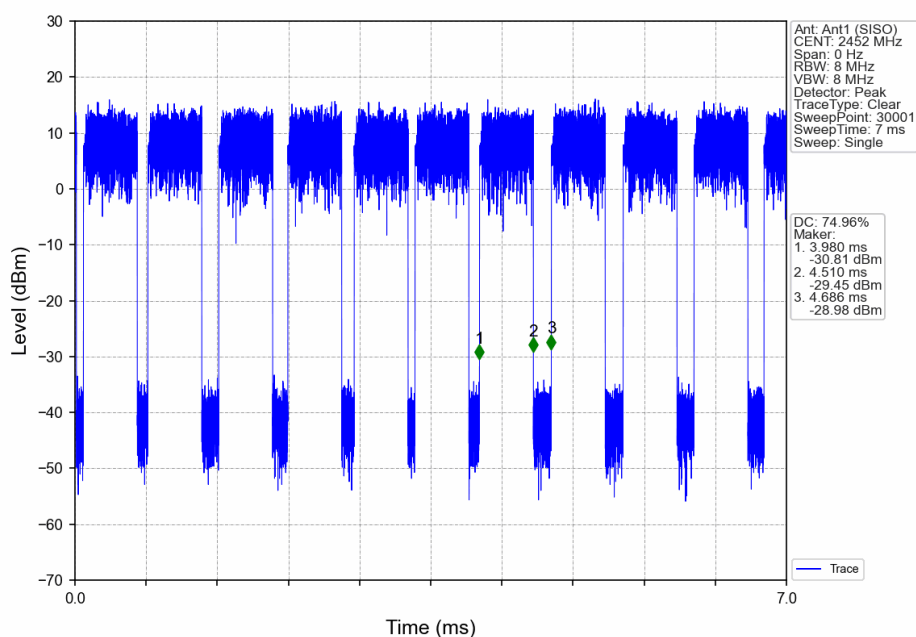
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



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2. Bandwidth

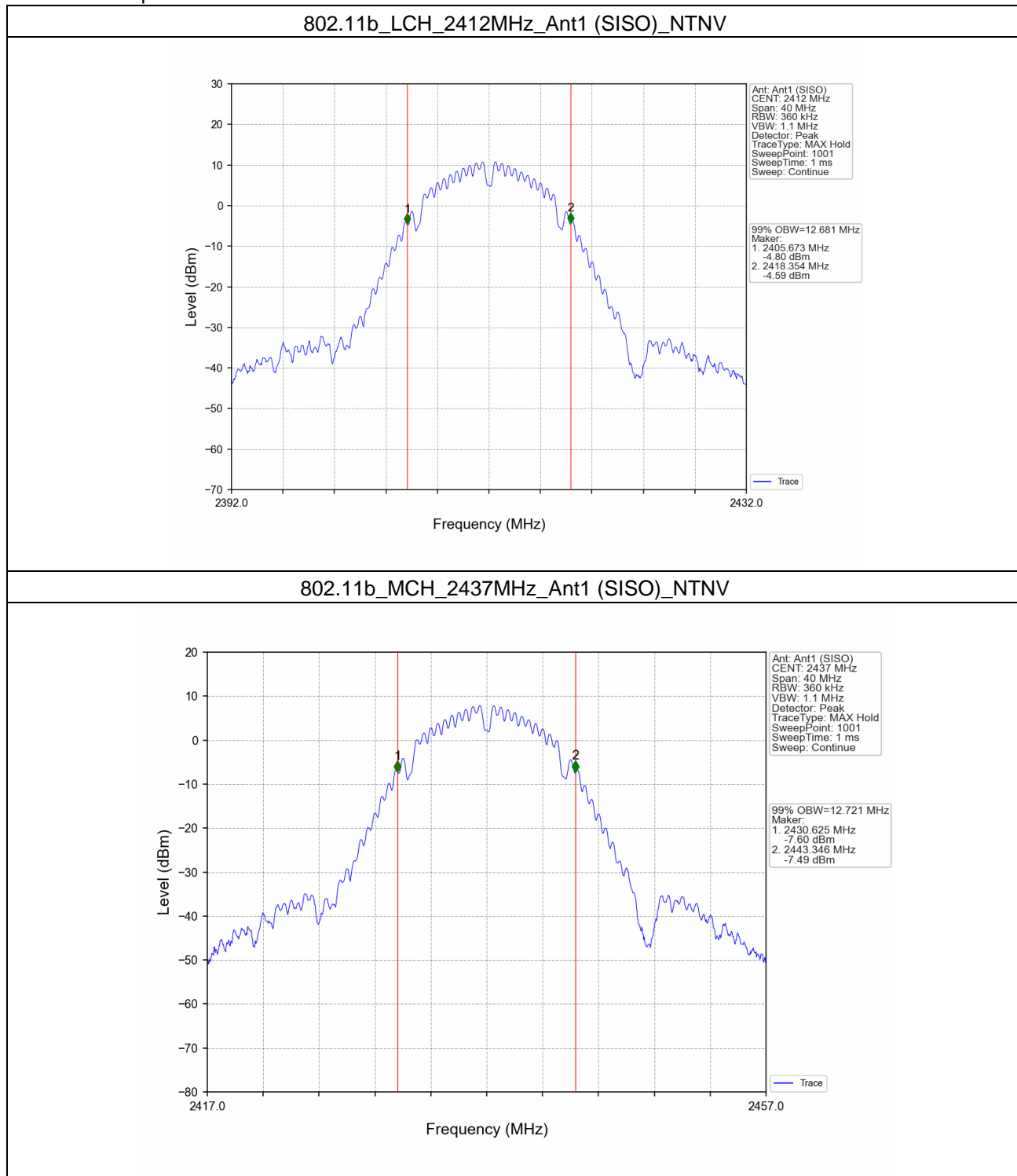
2.1 OBW

2.1.1 Test Result

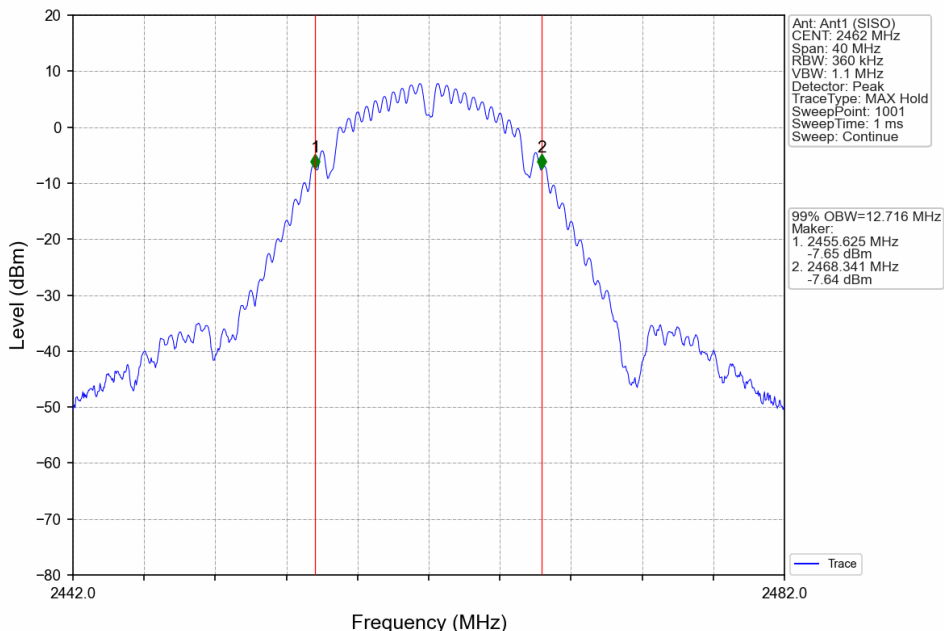
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)	Verdict
						Result	
802.11b	SISO	2412	/	/	1	12.681	Pass
		2437	/	/	1	12.721	Pass
		2462	/	/	1	12.716	Pass
802.11g	SISO	2412	/	/	1	19.533	Pass
		2437	/	/	1	19.595	Pass
		2462	/	/	1	19.560	Pass
802.11n (HT20)	SISO	2412	/	/	1	20.420	Pass
		2437	/	/	1	20.337	Pass
		2462	/	/	1	20.294	Pass
802.11n (HT40)	SISO	2422	/	/	1	38.590	Pass
		2437	/	/	1	38.605	Pass
		2452	/	/	1	38.657	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	20.259	Pass
		2437	RU242	Left	1	20.275	Pass
		2462	RU242	Left	1	20.298	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	39.178	Pass
		2437	RU484	Left	1	39.422	Pass
		2452	RU484	Left	1	39.473	Pass



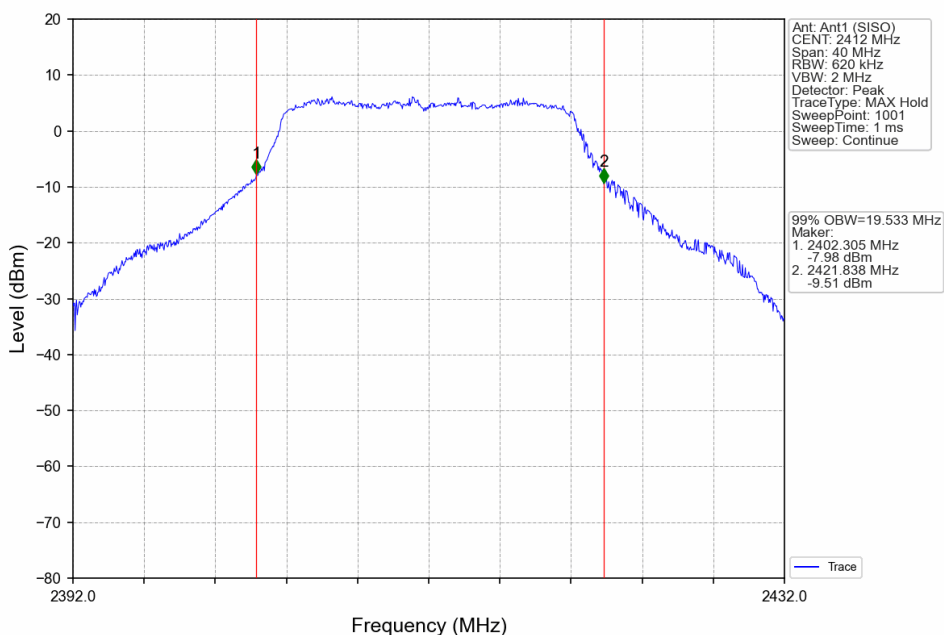
2.1.2 Test Graph



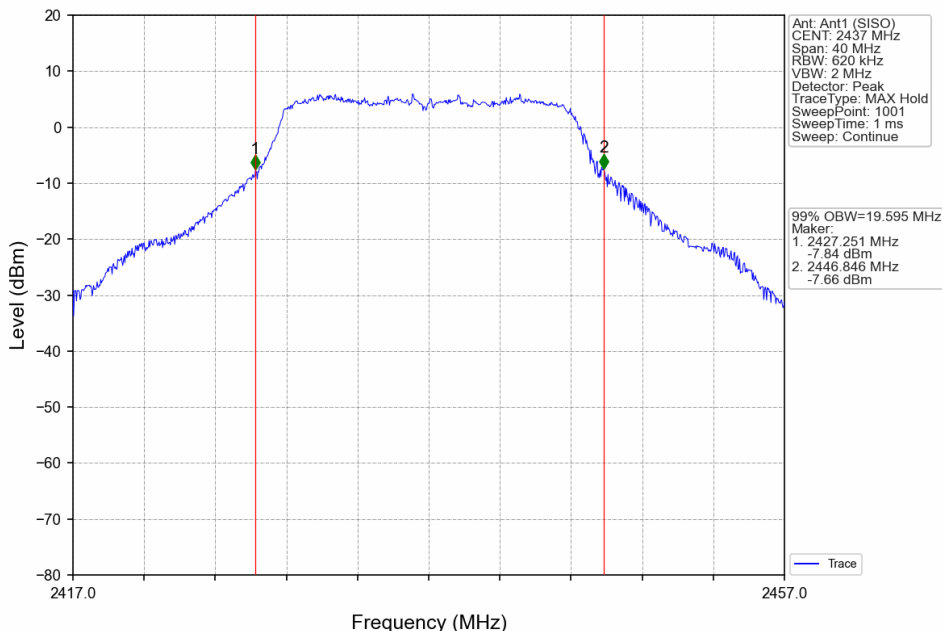
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



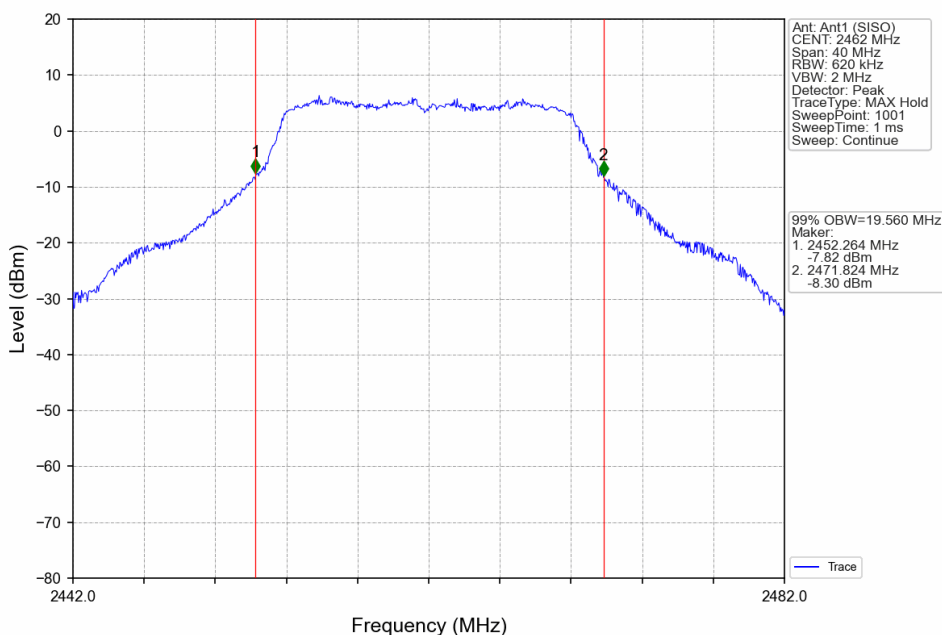
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



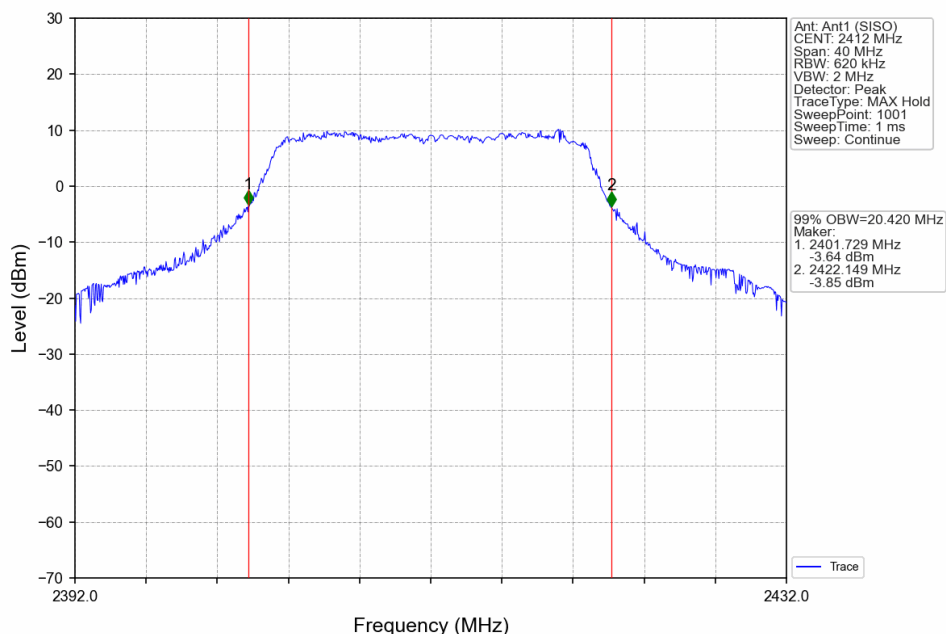
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



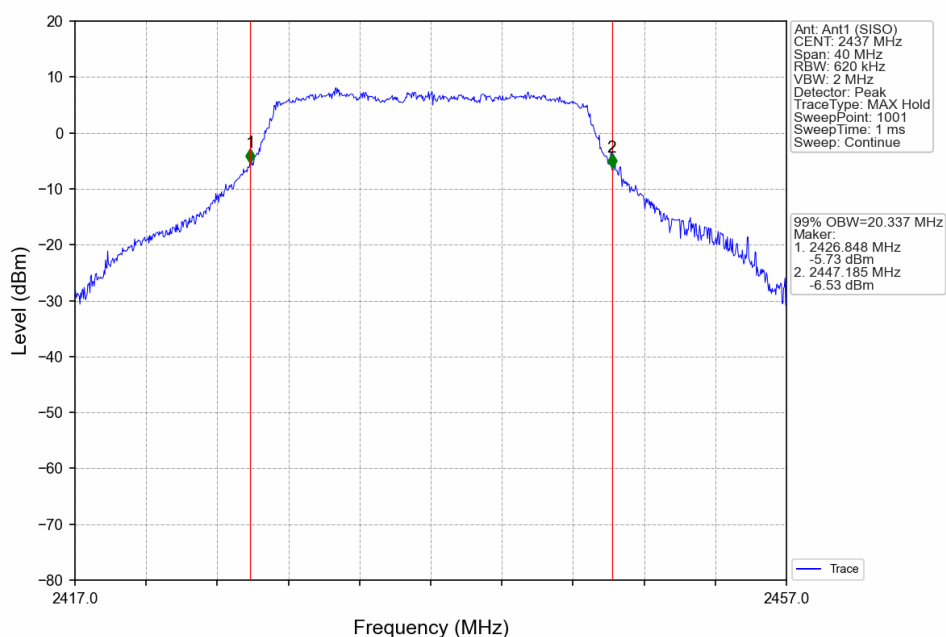
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



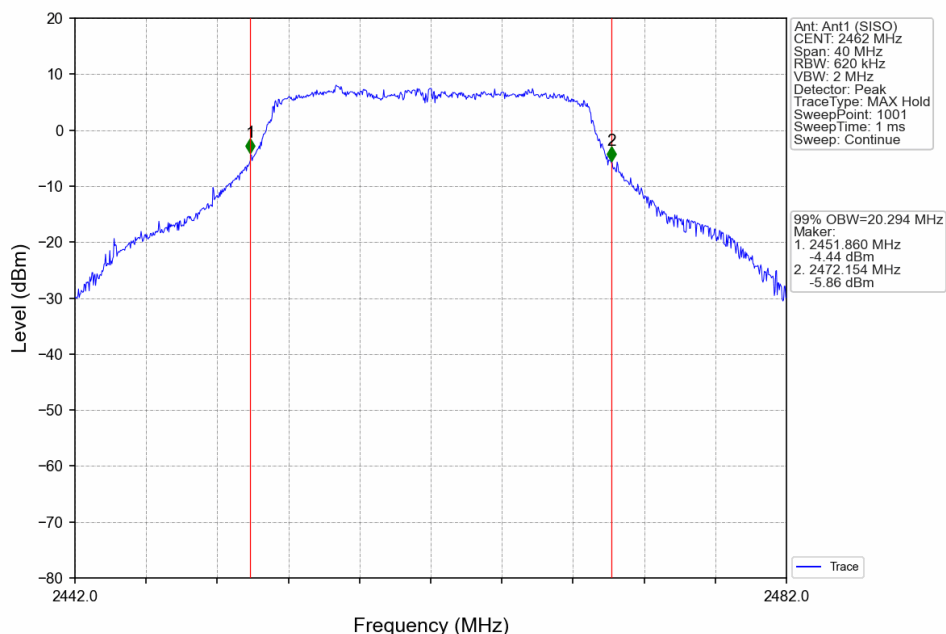
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



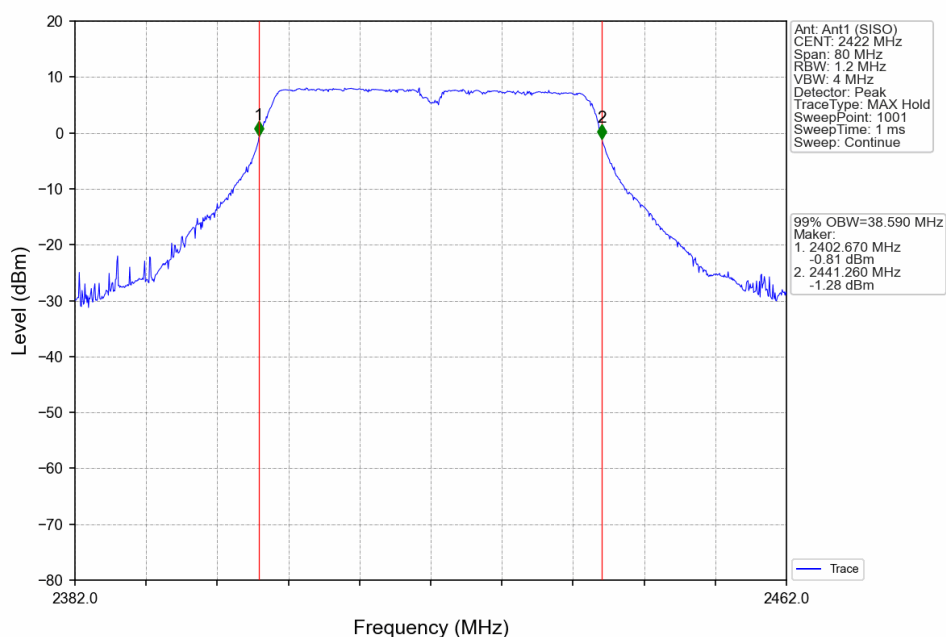
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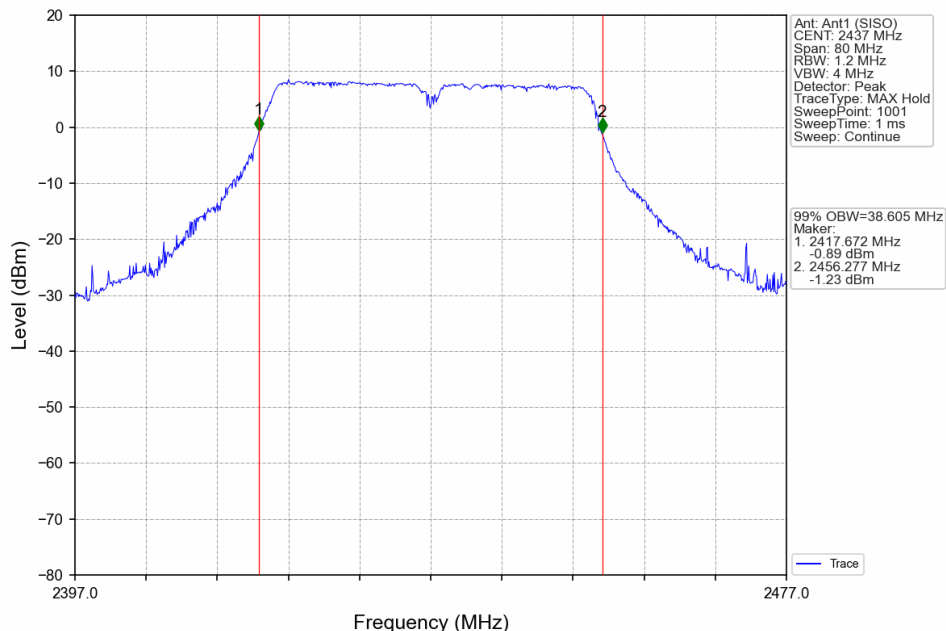
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



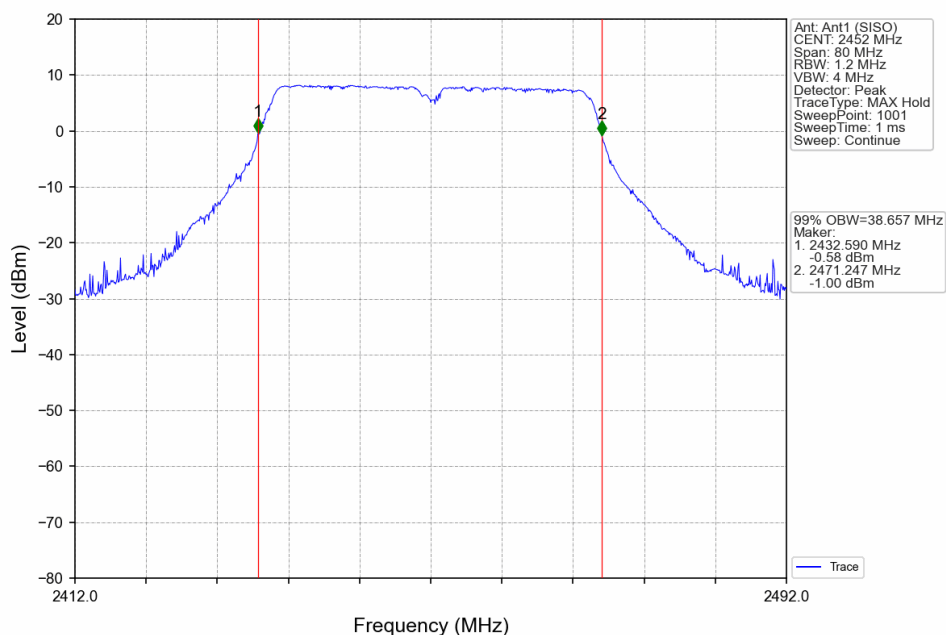
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



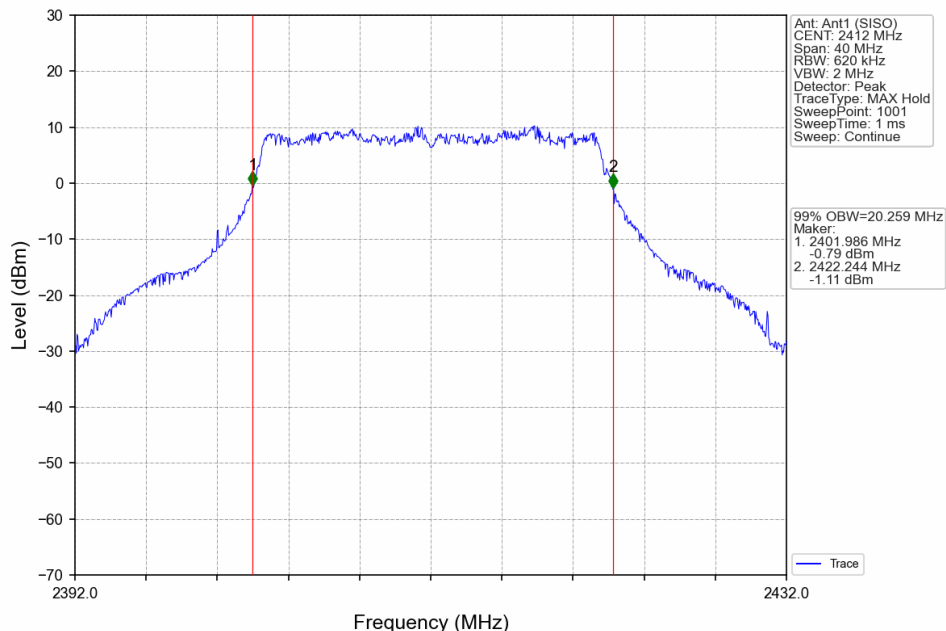
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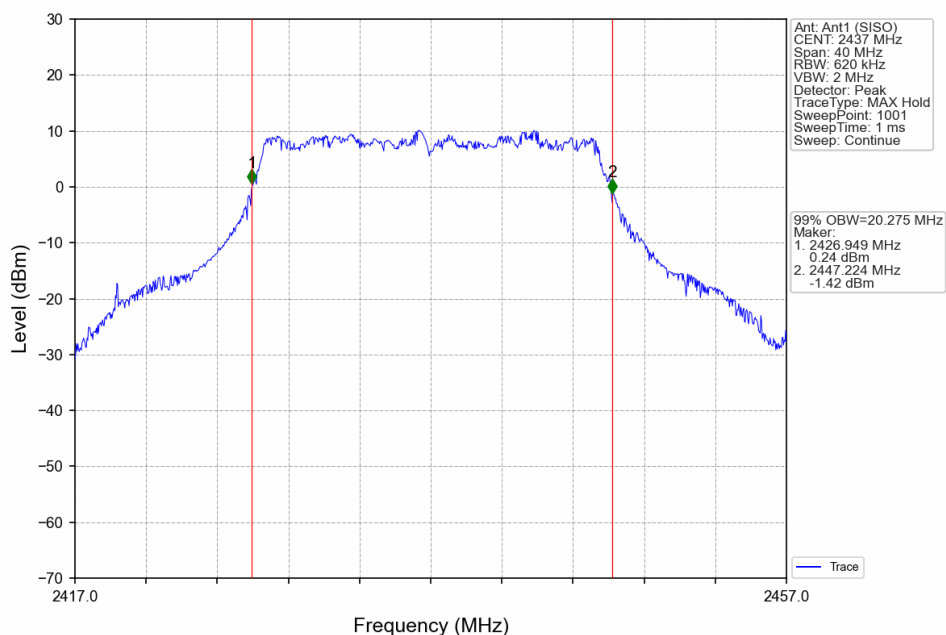
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



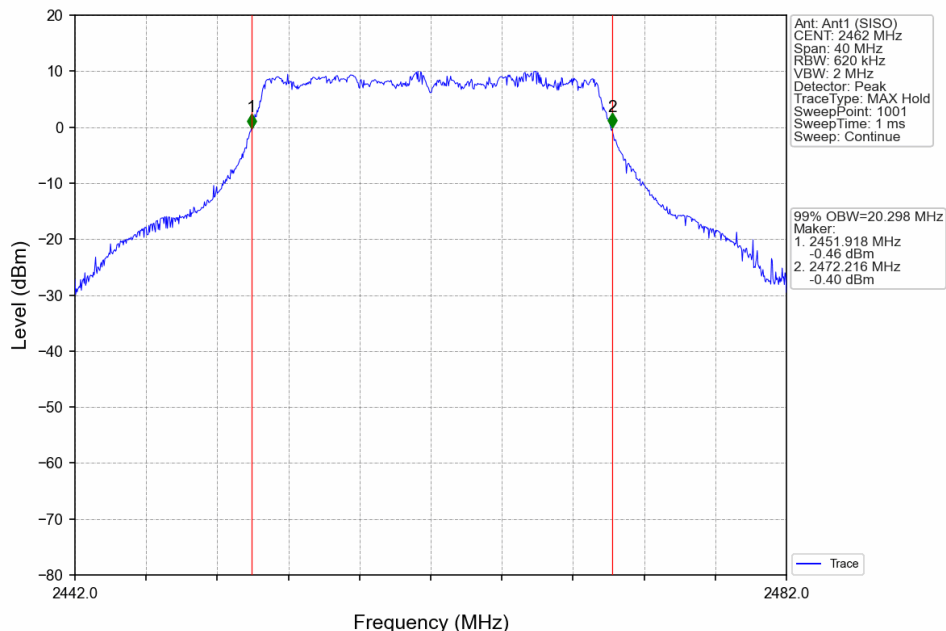
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



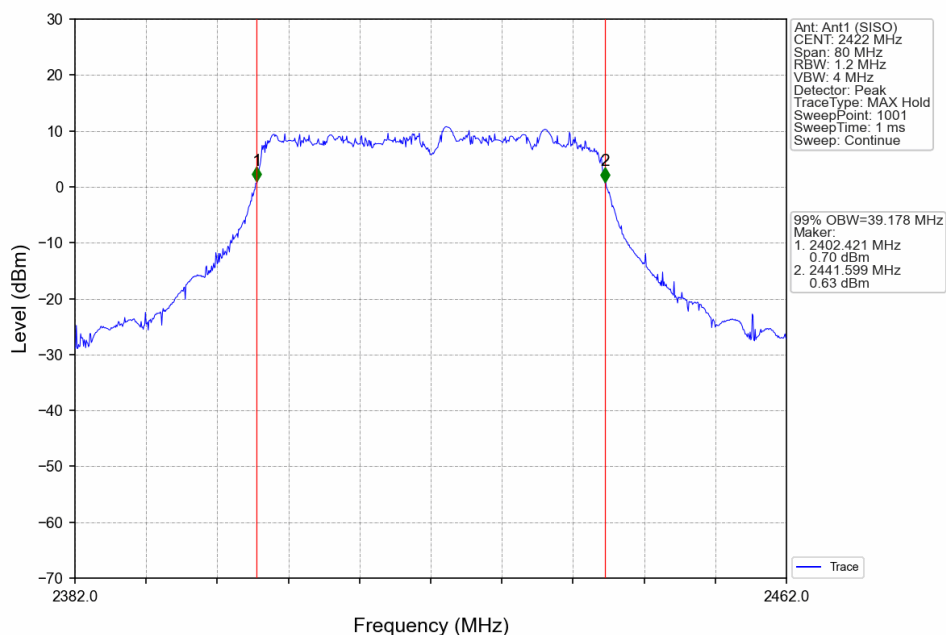
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



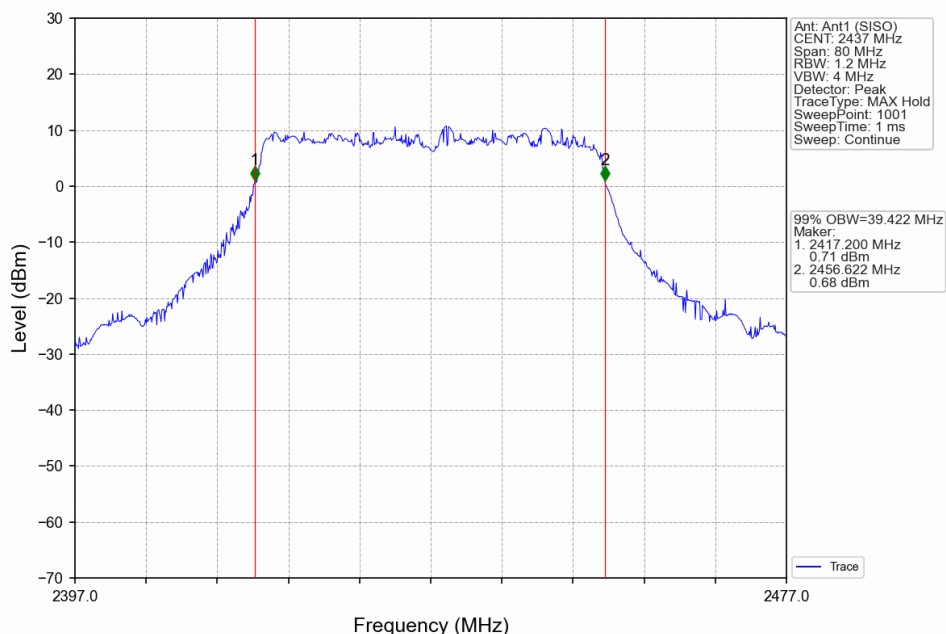
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



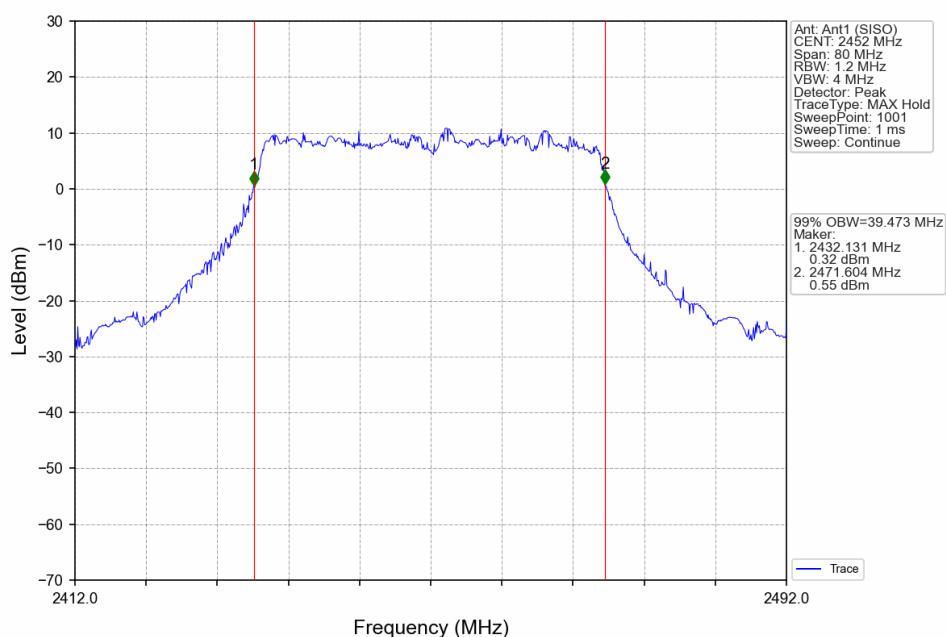
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



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

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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	SISO	2412	/	/	1	8.073	≥ 0.5	Pass
		2437	/	/	1	8.084	≥ 0.5	Pass
		2462	/	/	1	8.090	≥ 0.5	Pass
802.11g	SISO	2412	/	/	1	16.385	≥ 0.5	Pass
		2437	/	/	1	16.388	≥ 0.5	Pass
		2462	/	/	1	16.366	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.637	≥ 0.5	Pass
		2437	/	/	1	17.613	≥ 0.5	Pass
		2462	/	/	1	17.601	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.393	≥ 0.5	Pass
		2437	/	/	1	36.399	≥ 0.5	Pass
		2452	/	/	1	36.381	≥ 0.5	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	19.014	≥ 0.5	Pass
		2437	RU242	Left	1	19.016	≥ 0.5	Pass
		2462	RU242	Left	1	19.034	≥ 0.5	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	38.078	≥ 0.5	Pass
		2437	RU484	Left	1	38.147	≥ 0.5	Pass
		2452	RU484	Left	1	38.129	≥ 0.5	Pass



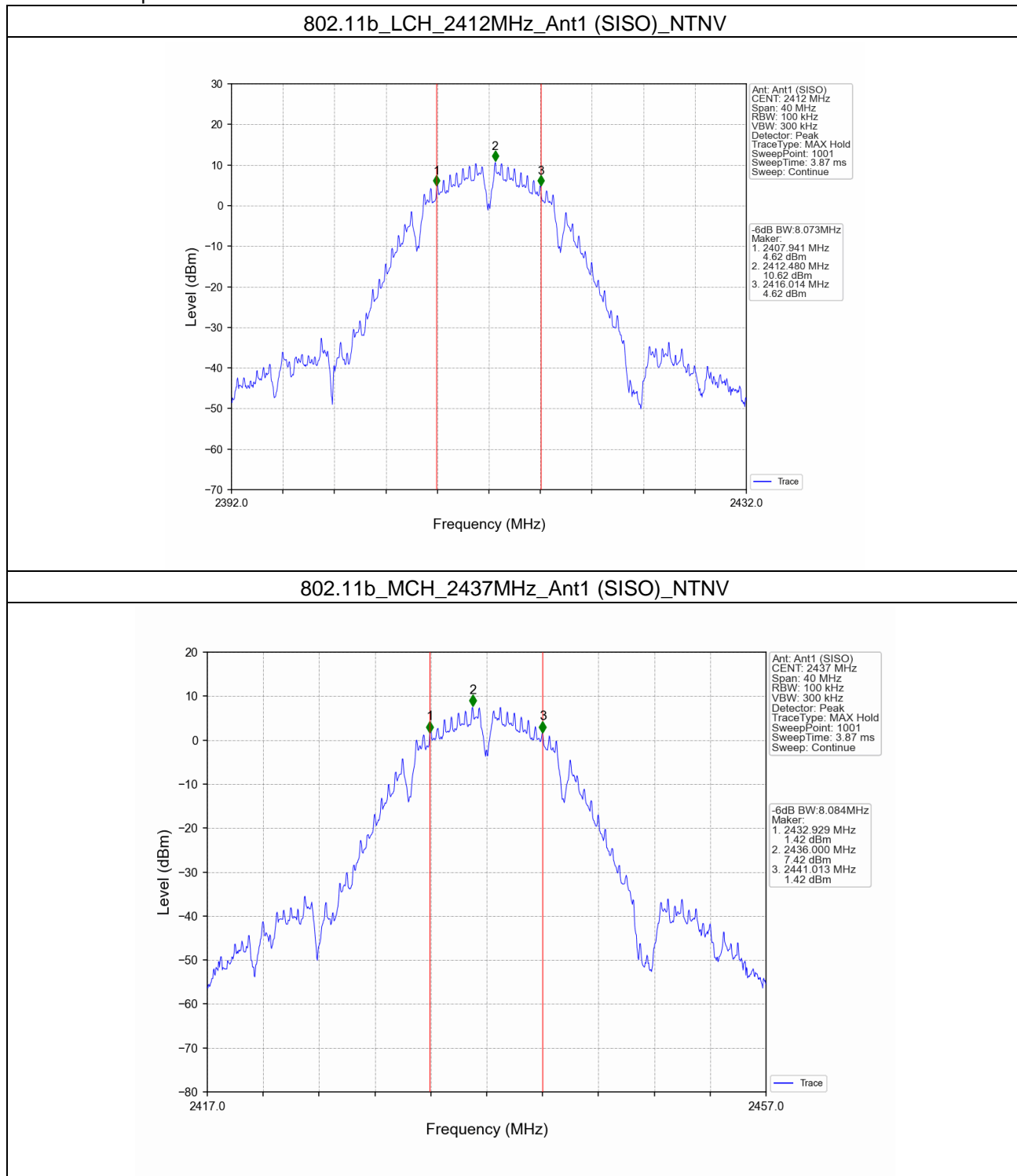
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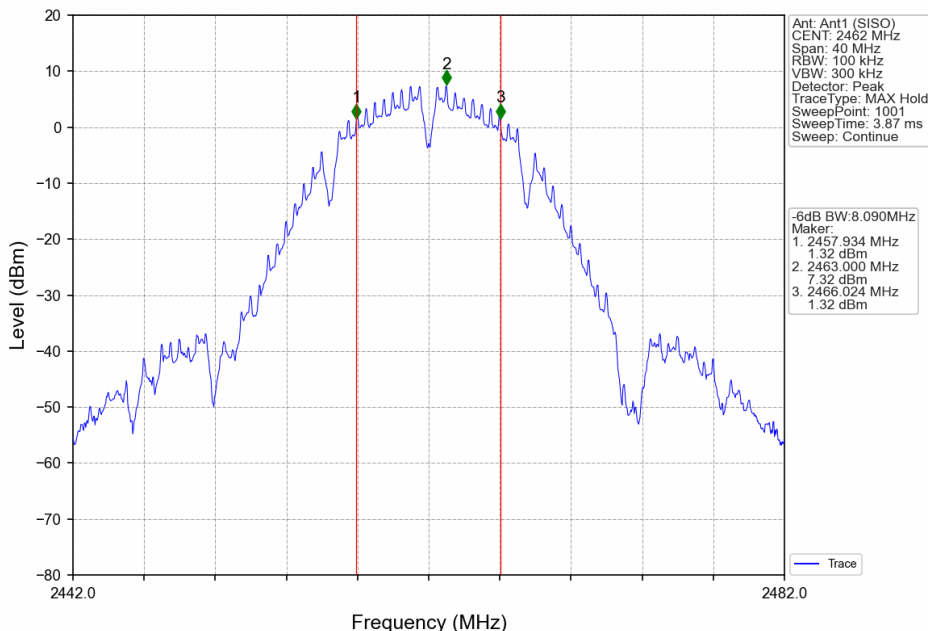
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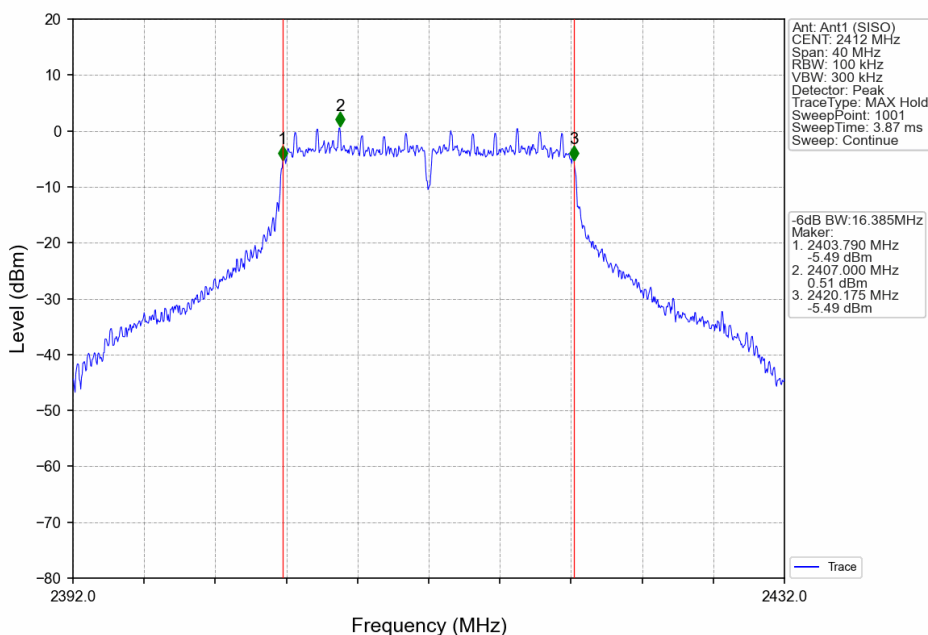
2.2.2 Test Graph



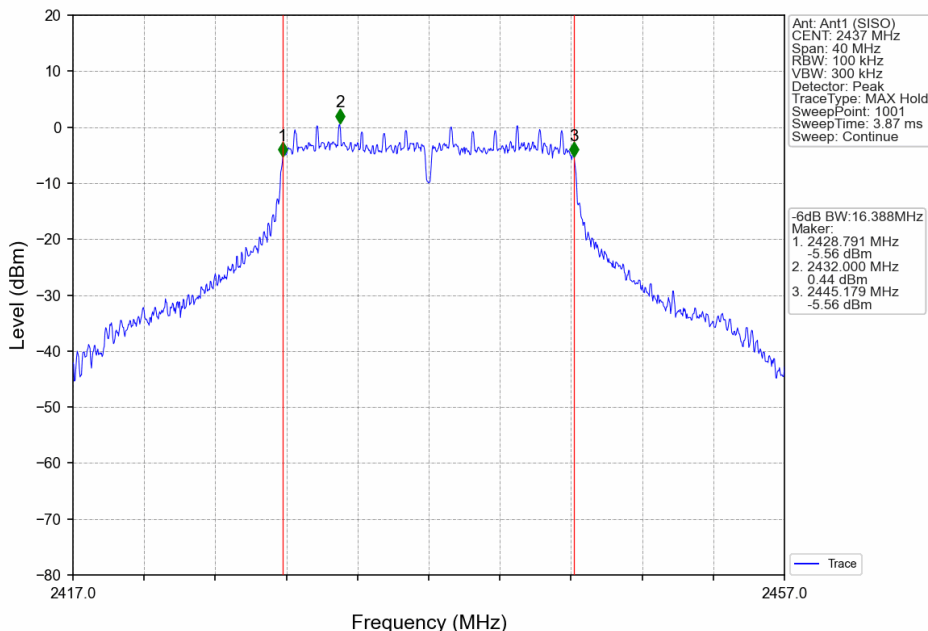
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



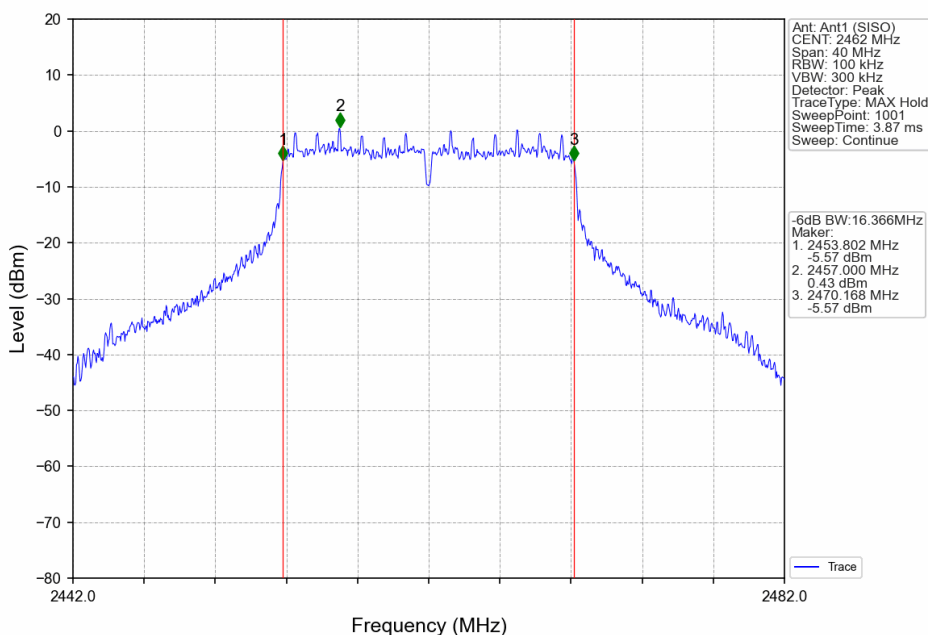
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



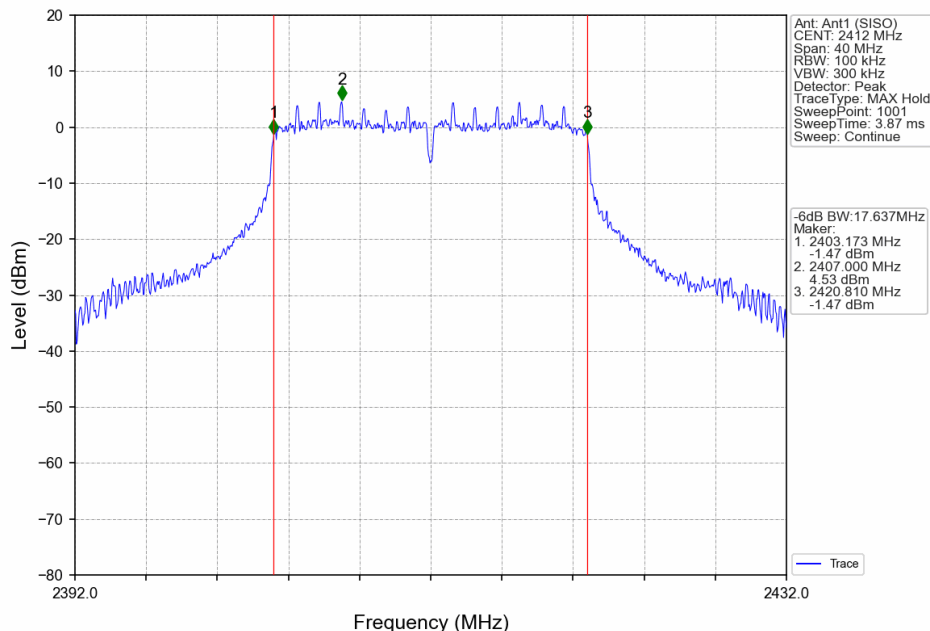
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



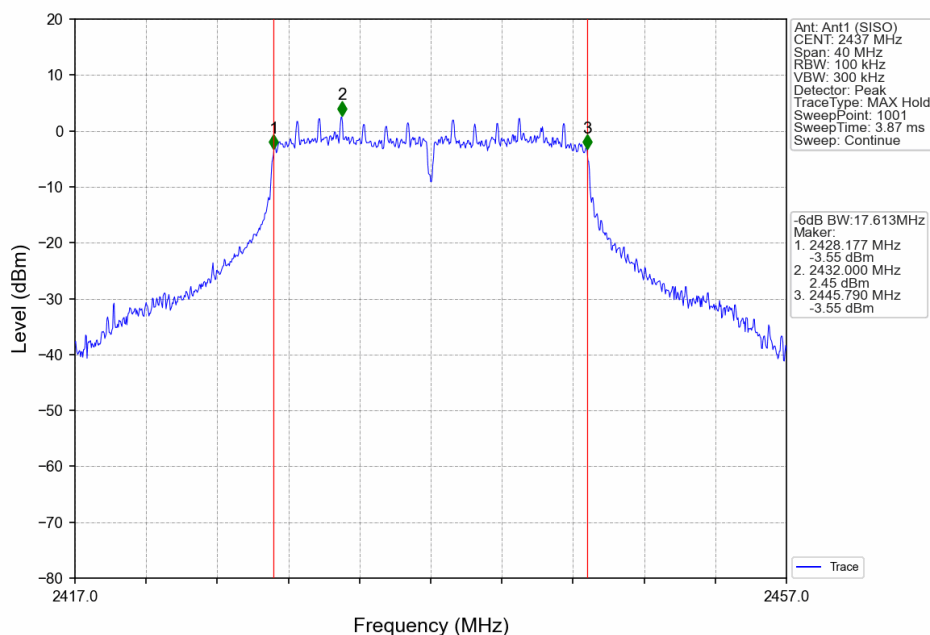
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



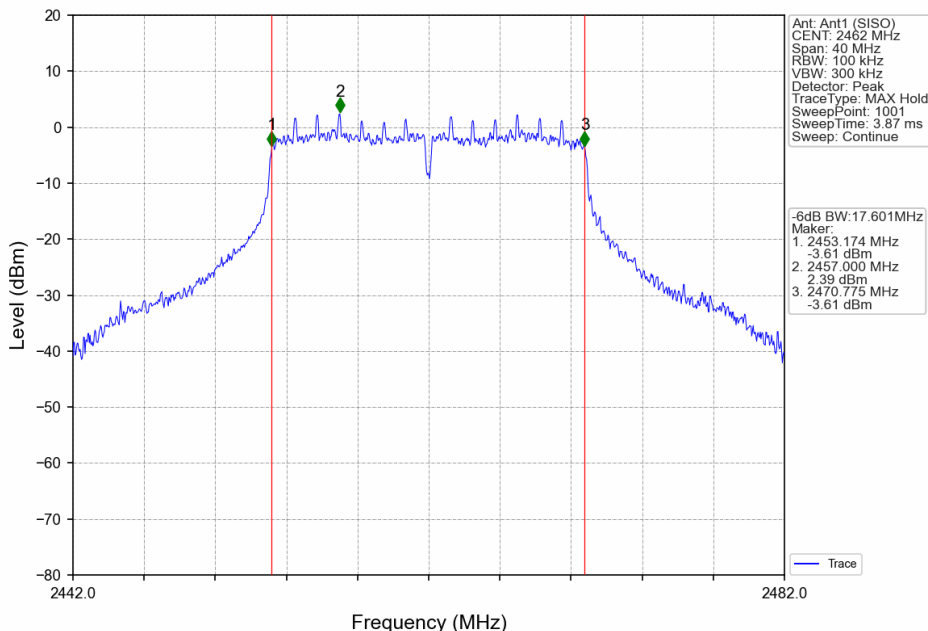
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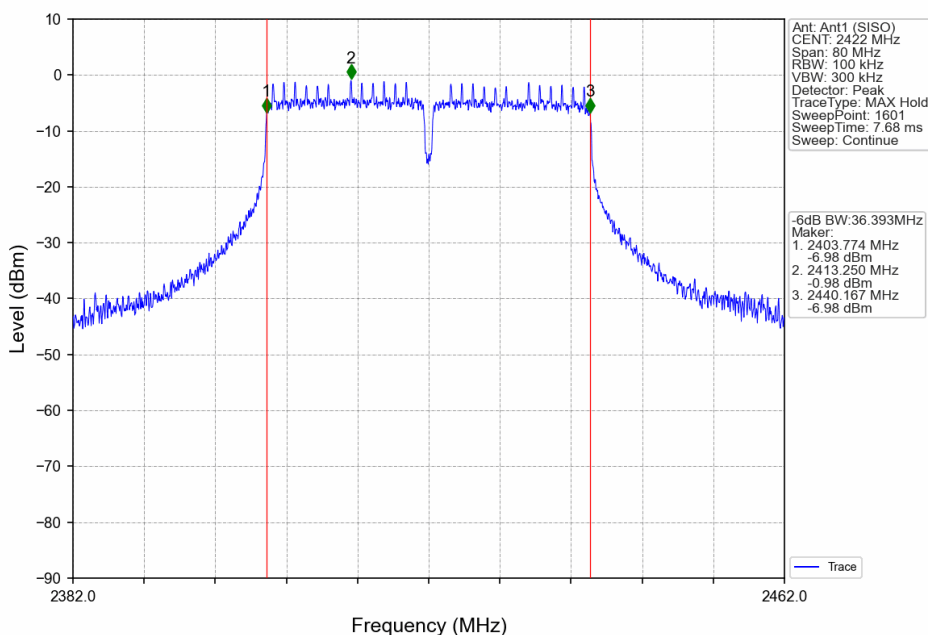
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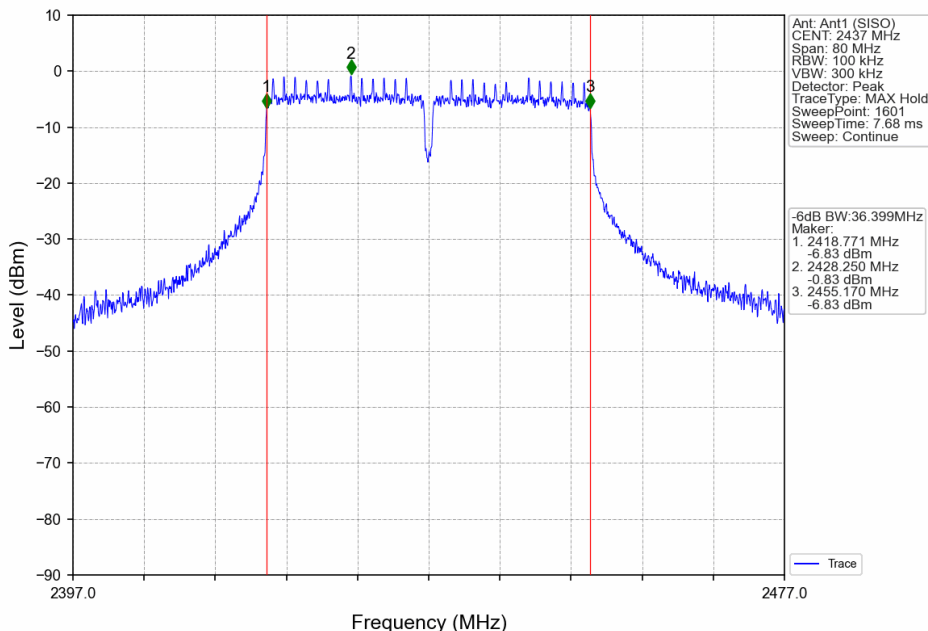
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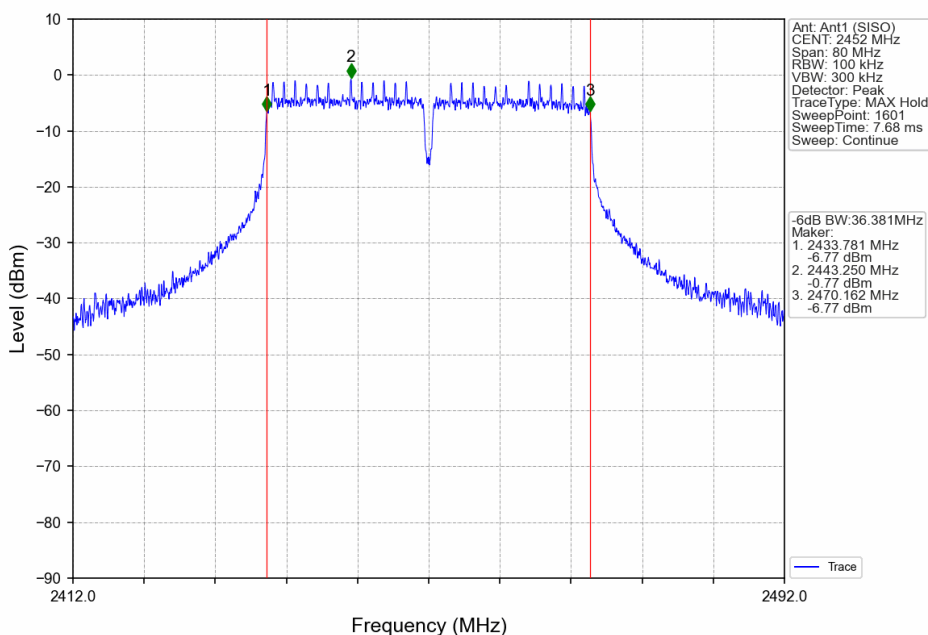
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



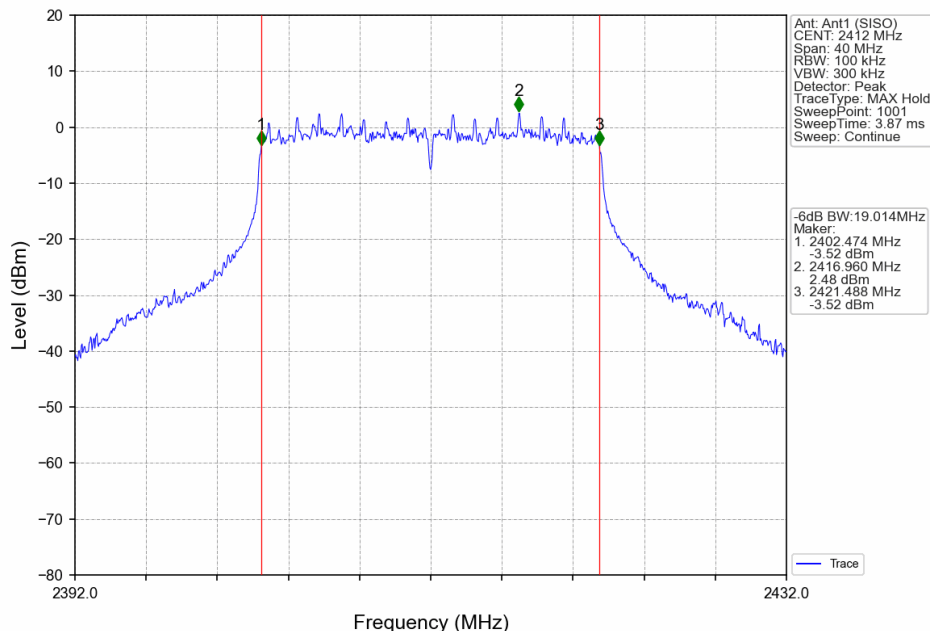
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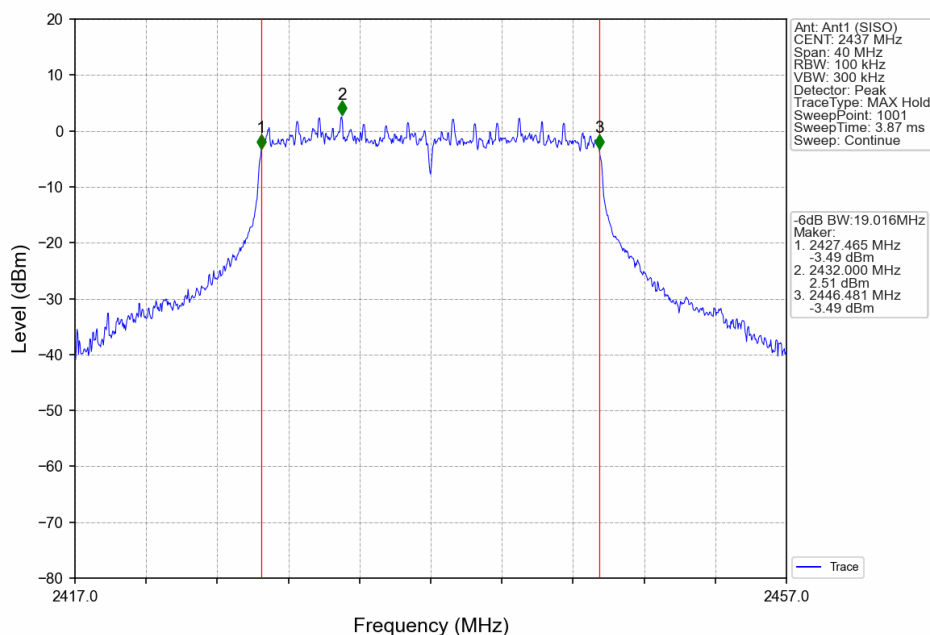
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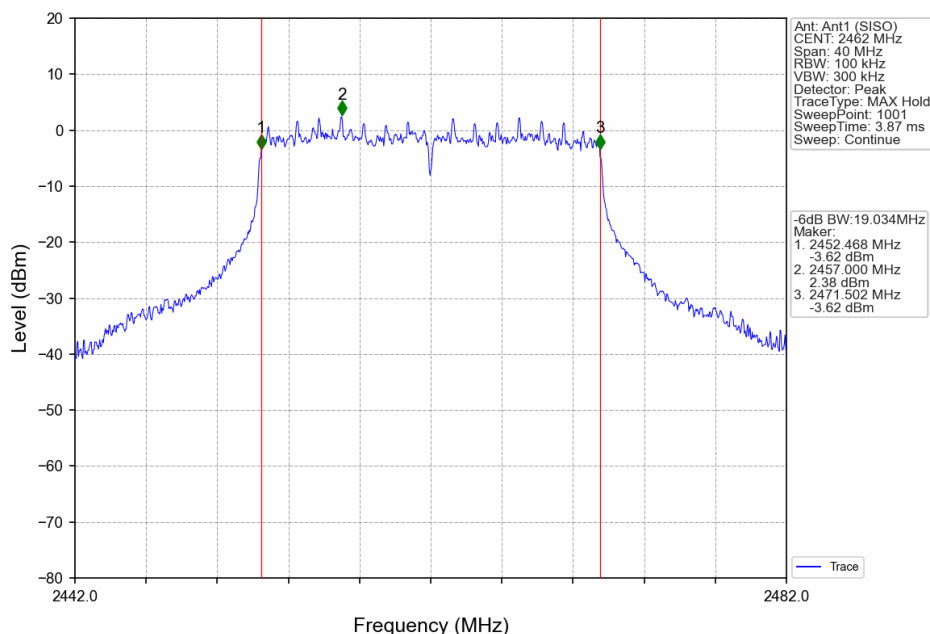
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



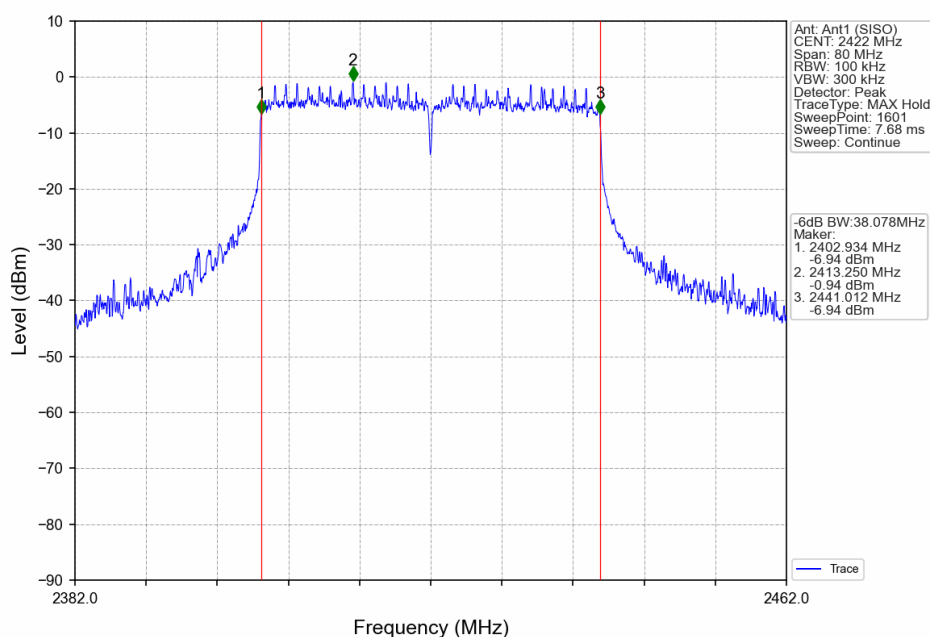
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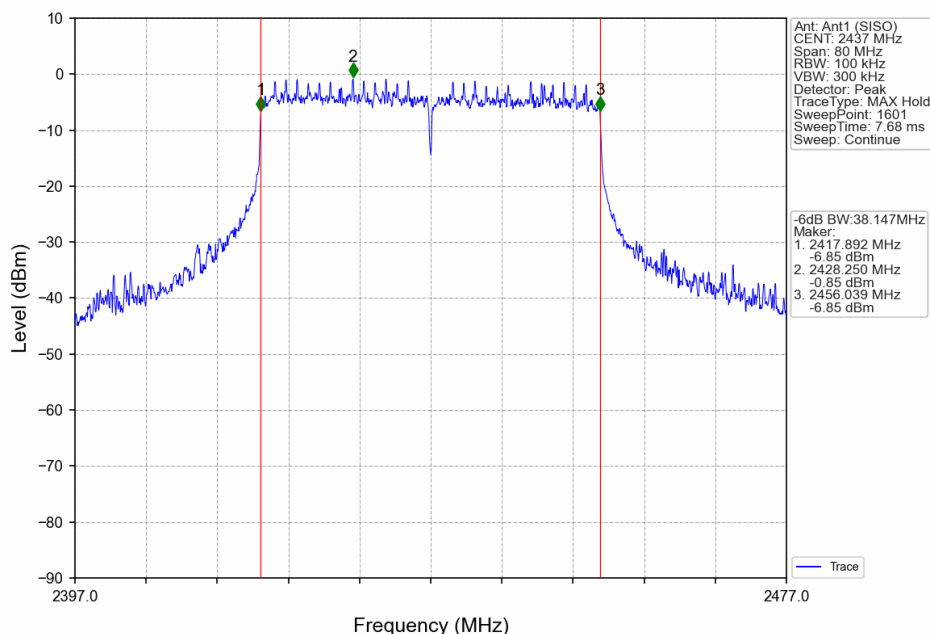
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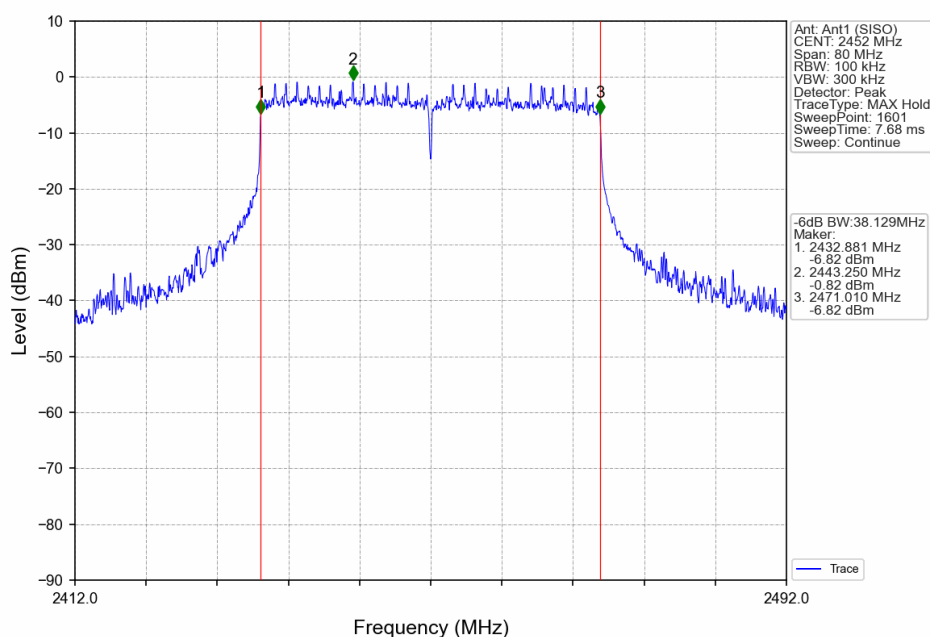
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	18.38	<=30	Pass
		2437	/	/	18.18	<=30	Pass
		2462	/	/	18.11	<=30	Pass
802.11g	SISO	2412	/	/	19.92	<=30	Pass
		2437	/	/	19.61	<=30	Pass
		2462	/	/	19.52	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	19.79	<=30	Pass
		2437	/	/	19.57	<=30	Pass
		2462	/	/	19.46	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	19.54	<=30	Pass
		2437	/	/	19.68	<=30	Pass
		2452	/	/	19.77	<=30	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	21.10	<=30	Pass
		2437	RU242	Left	21.00	<=30	Pass
		2462	RU242	Left	20.92	<=30	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	20.81	<=30	Pass
		2437	RU484	Left	21.10	<=30	Pass
		2452	RU484	Left	21.06	<=30	Pass

4. Maximum Power Spectral Density

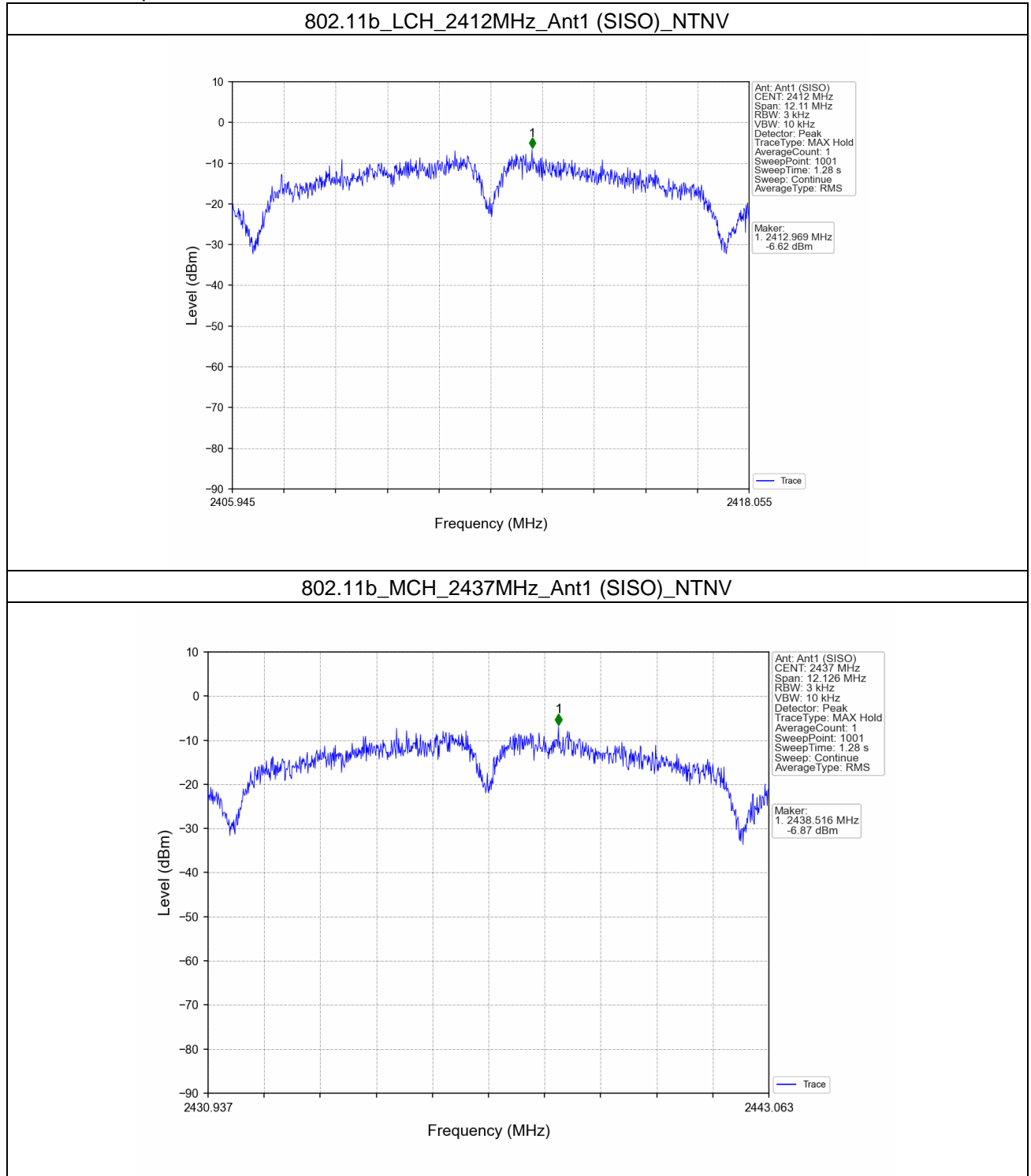
4.1 PSD

4.1.1 Test Result

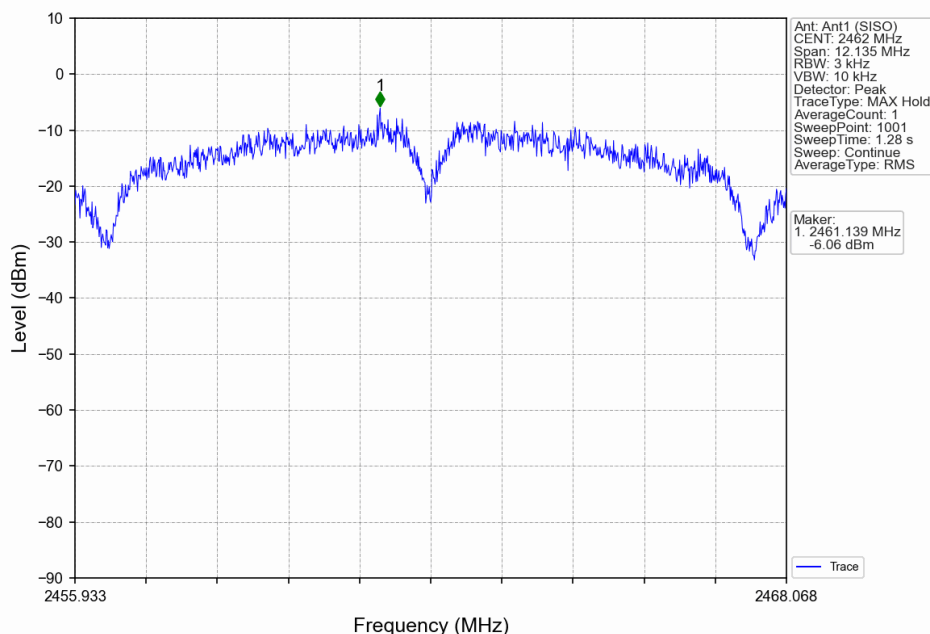
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-6.62	<=8	Pass
		2437	/	/	-6.87	<=8	Pass
		2462	/	/	-6.06	<=8	Pass
802.11g	SISO	2412	/	/	-12.65	<=8	Pass
		2437	/	/	-12.20	<=8	Pass
		2462	/	/	-13.36	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-13.28	<=8	Pass
		2437	/	/	-12.43	<=8	Pass
		2462	/	/	-12.57	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-16.83	<=8	Pass
		2437	/	/	-16.69	<=8	Pass
		2452	/	/	-17.51	<=8	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	-13.70	<=8	Pass
		2437	RU242	Left	-13.72	<=8	Pass
		2462	RU242	Left	-14.13	<=8	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	-16.89	<=8	Pass
		2437	RU484	Left	-16.96	<=8	Pass
		2452	RU484	Left	-16.64	<=8	Pass



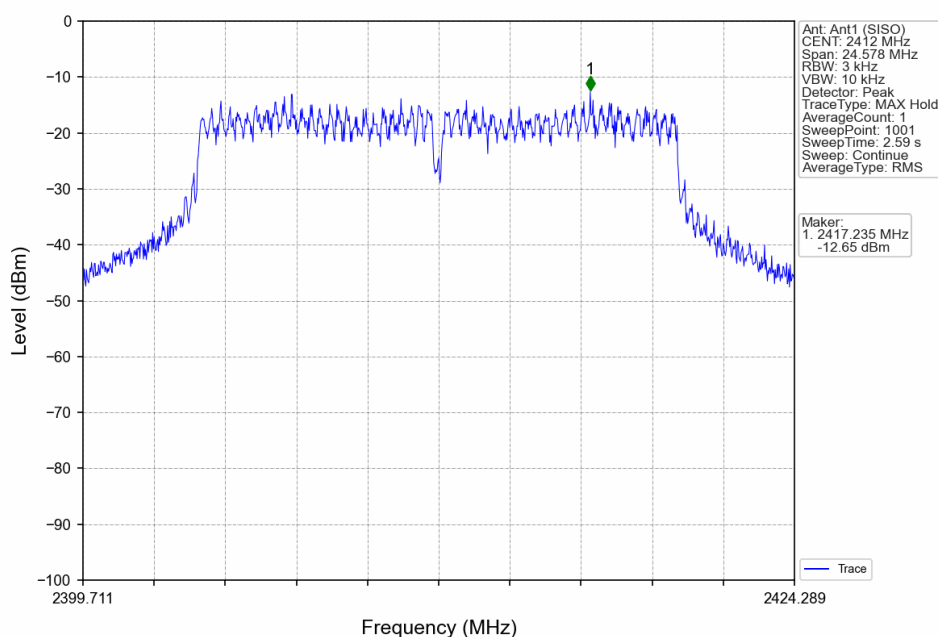
4.1.2 Test Graph



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



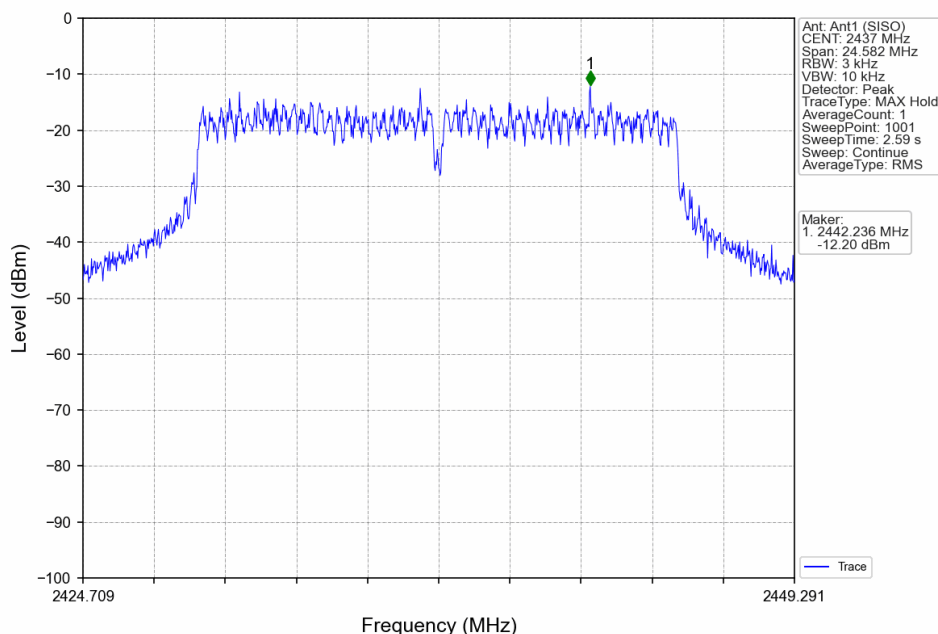
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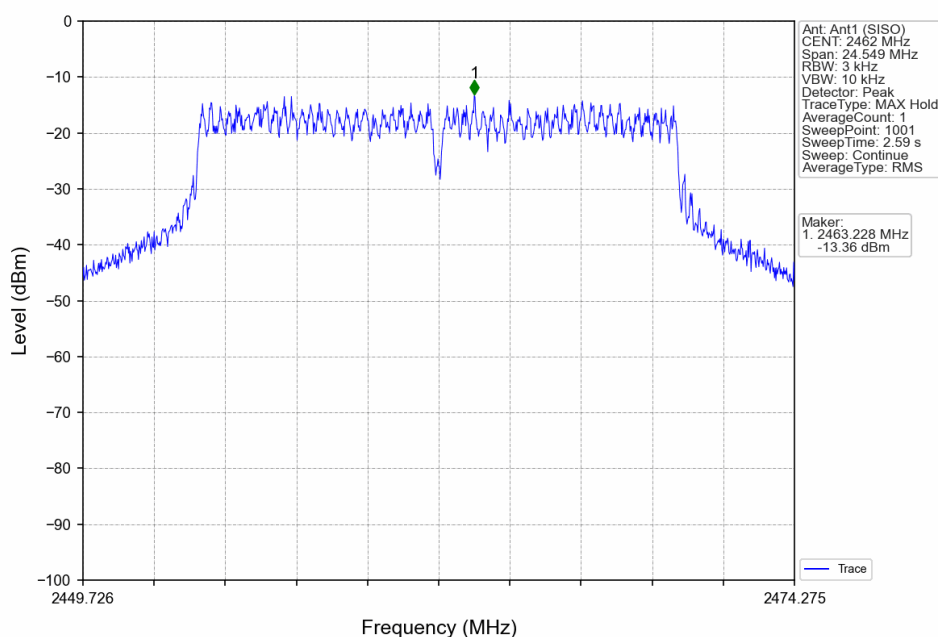
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



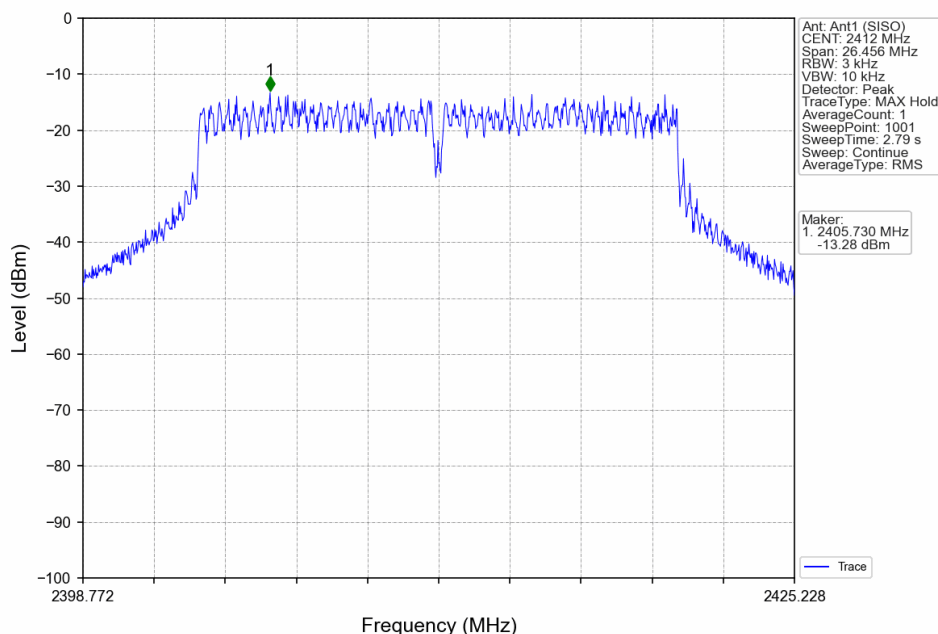
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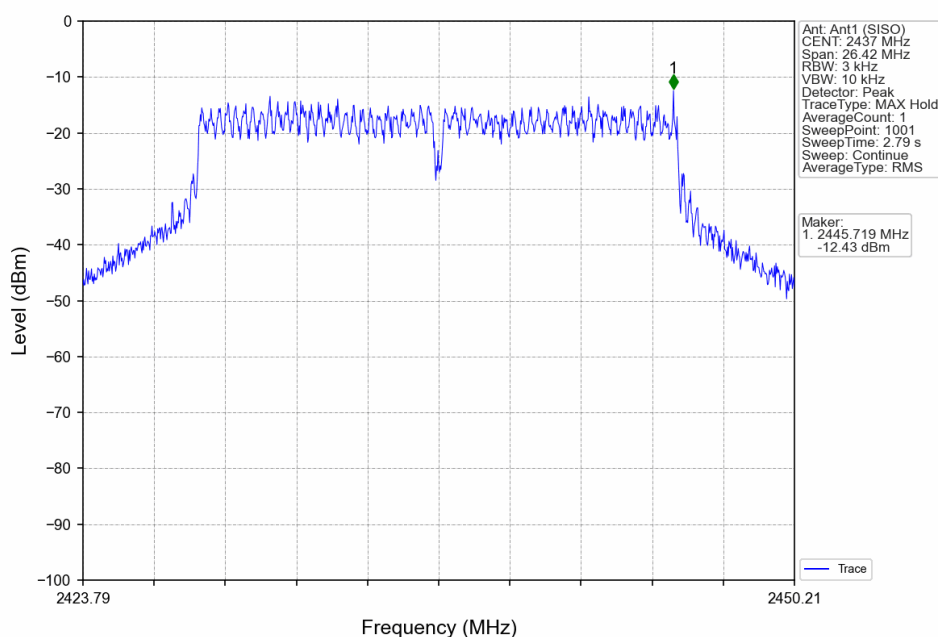
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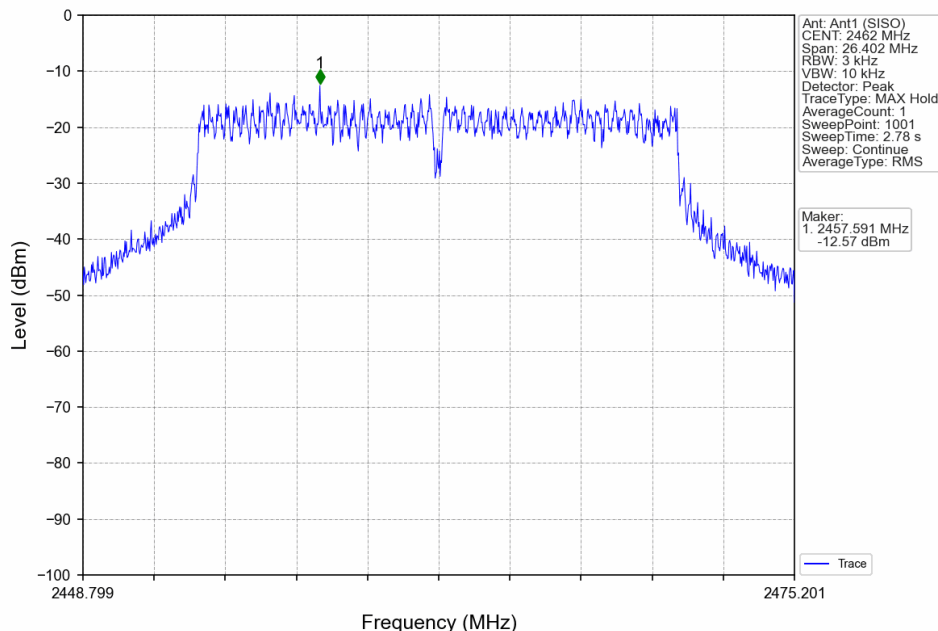
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



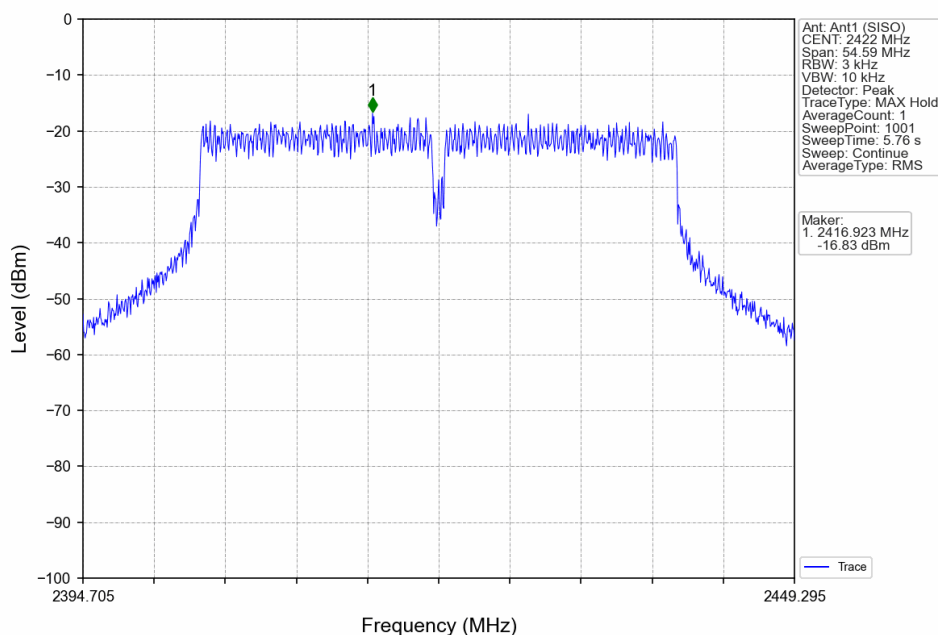
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



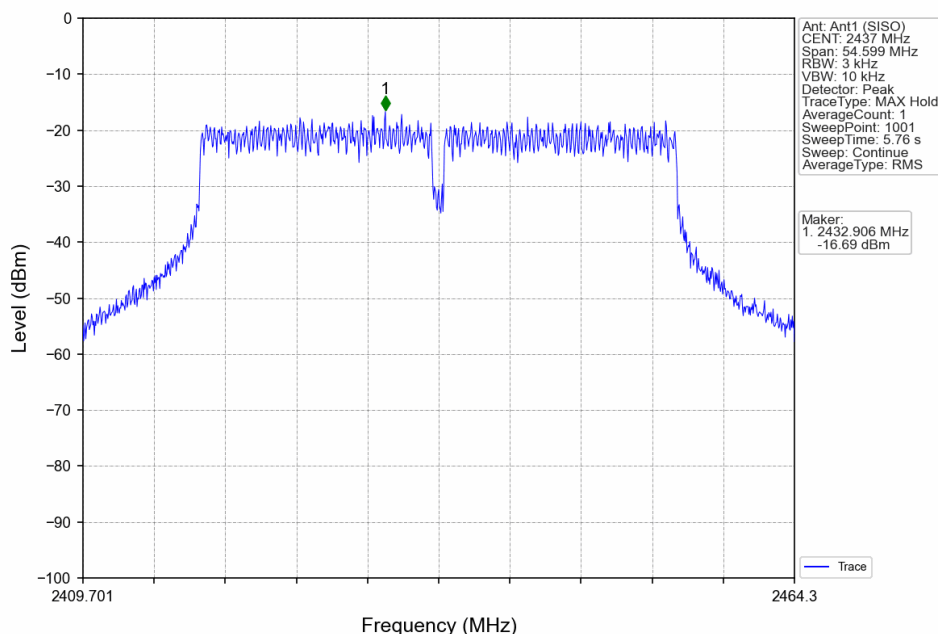
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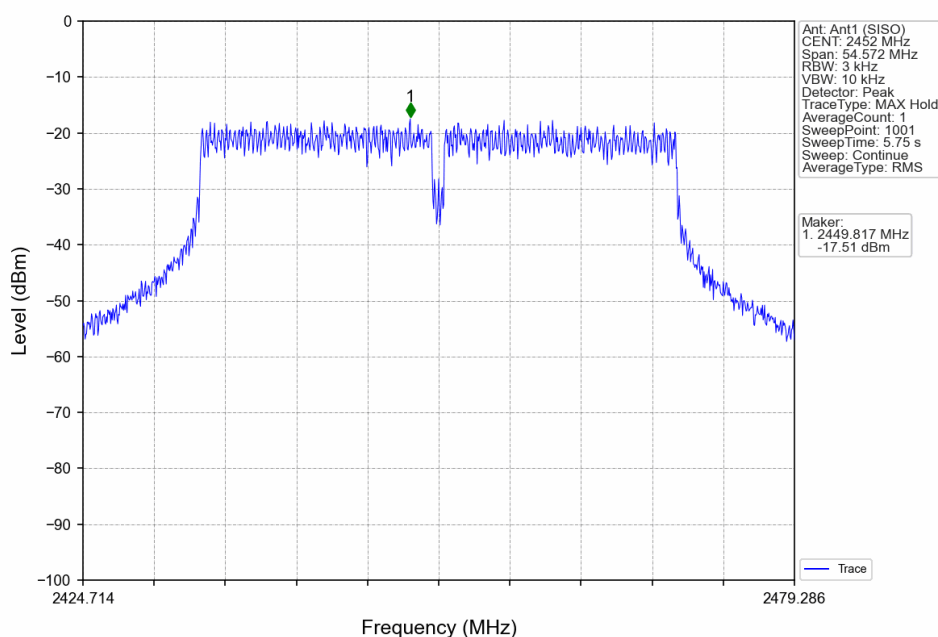
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



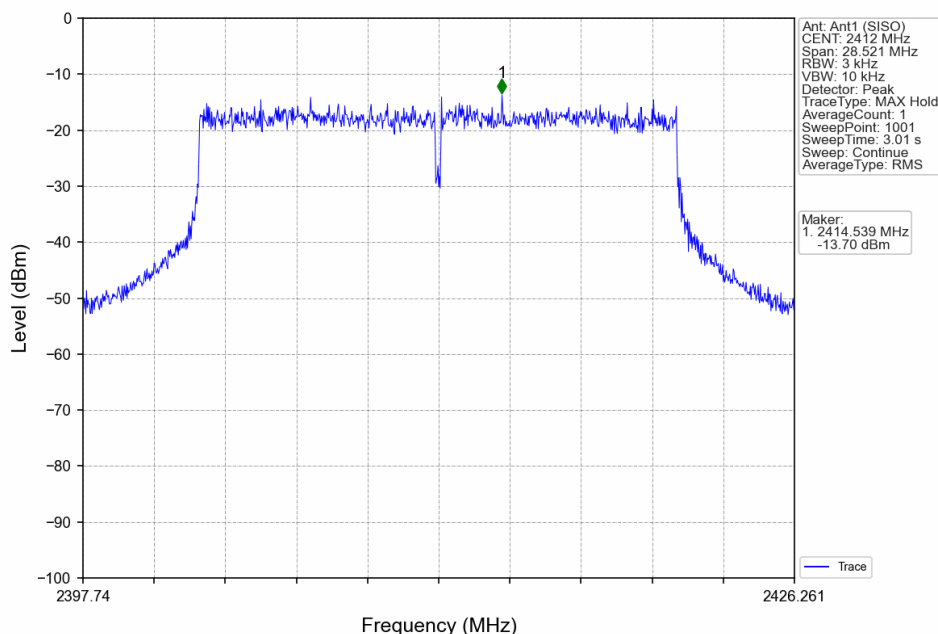
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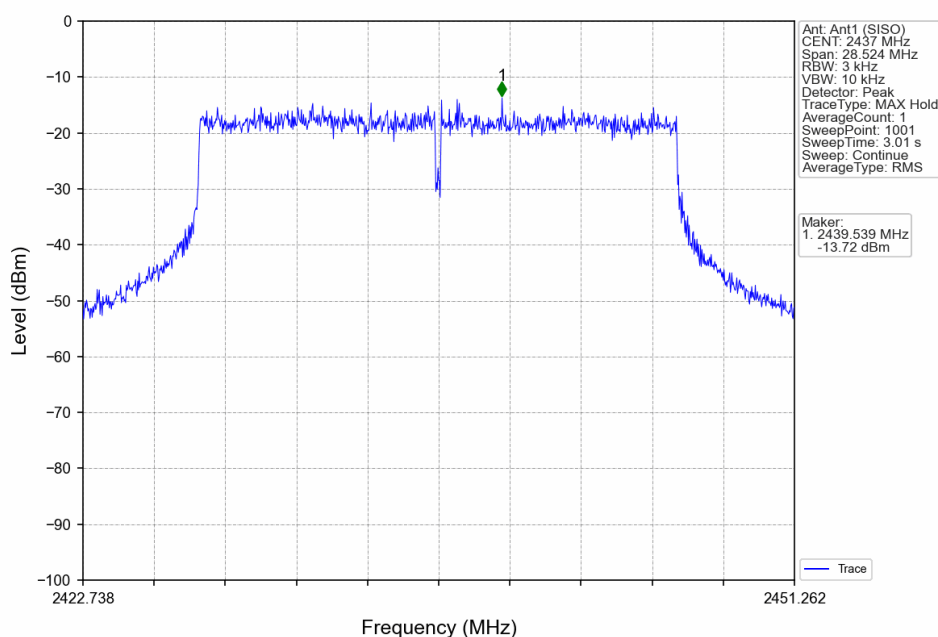
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



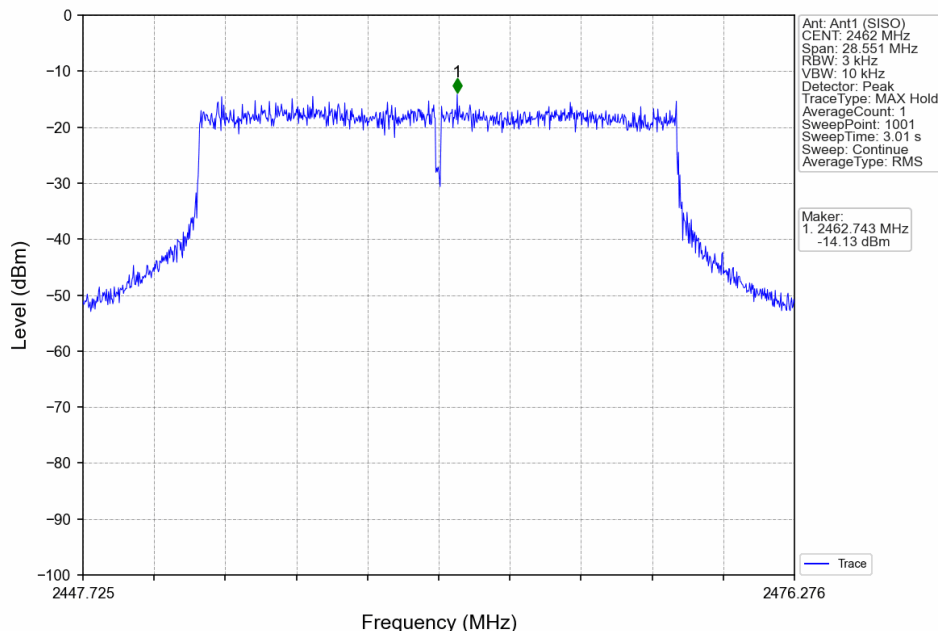
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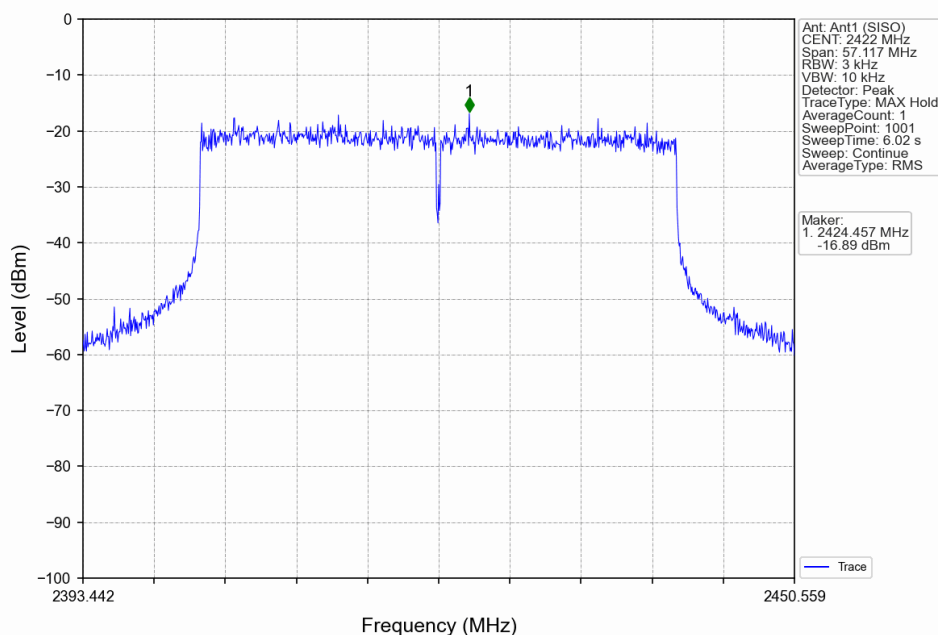
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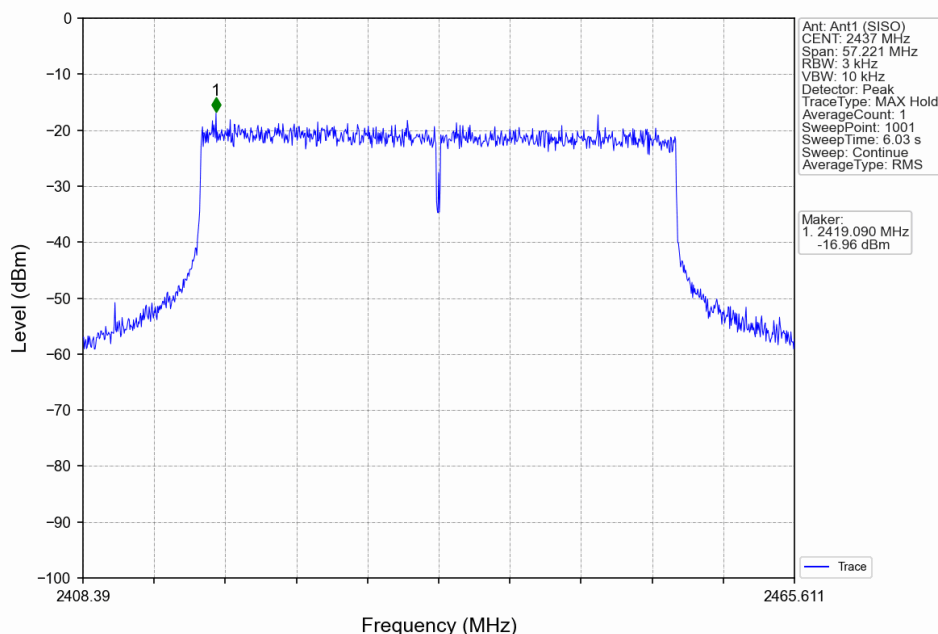
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



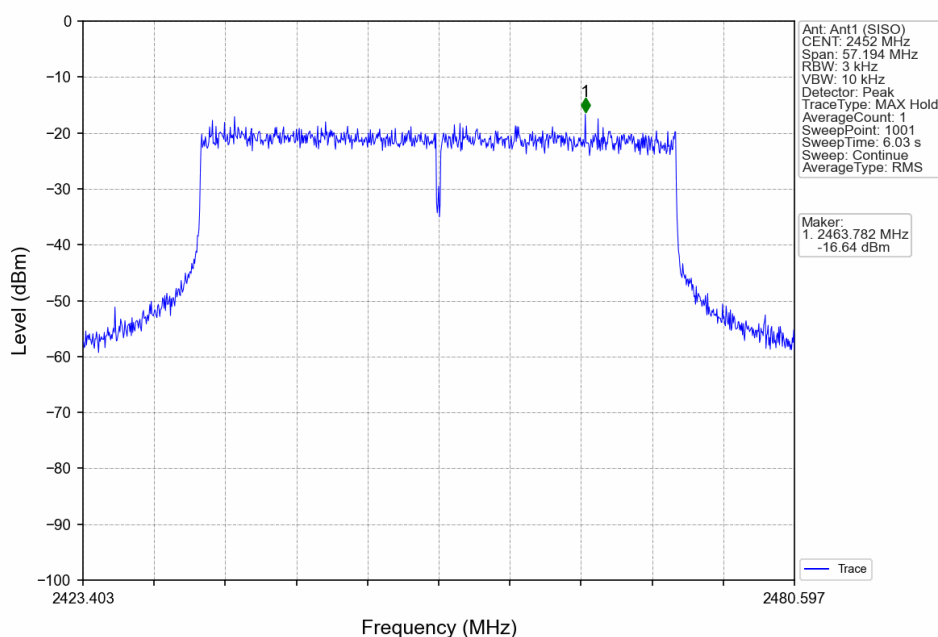
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



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5. Unwanted Emissions In Non-restricted Frequency Bands

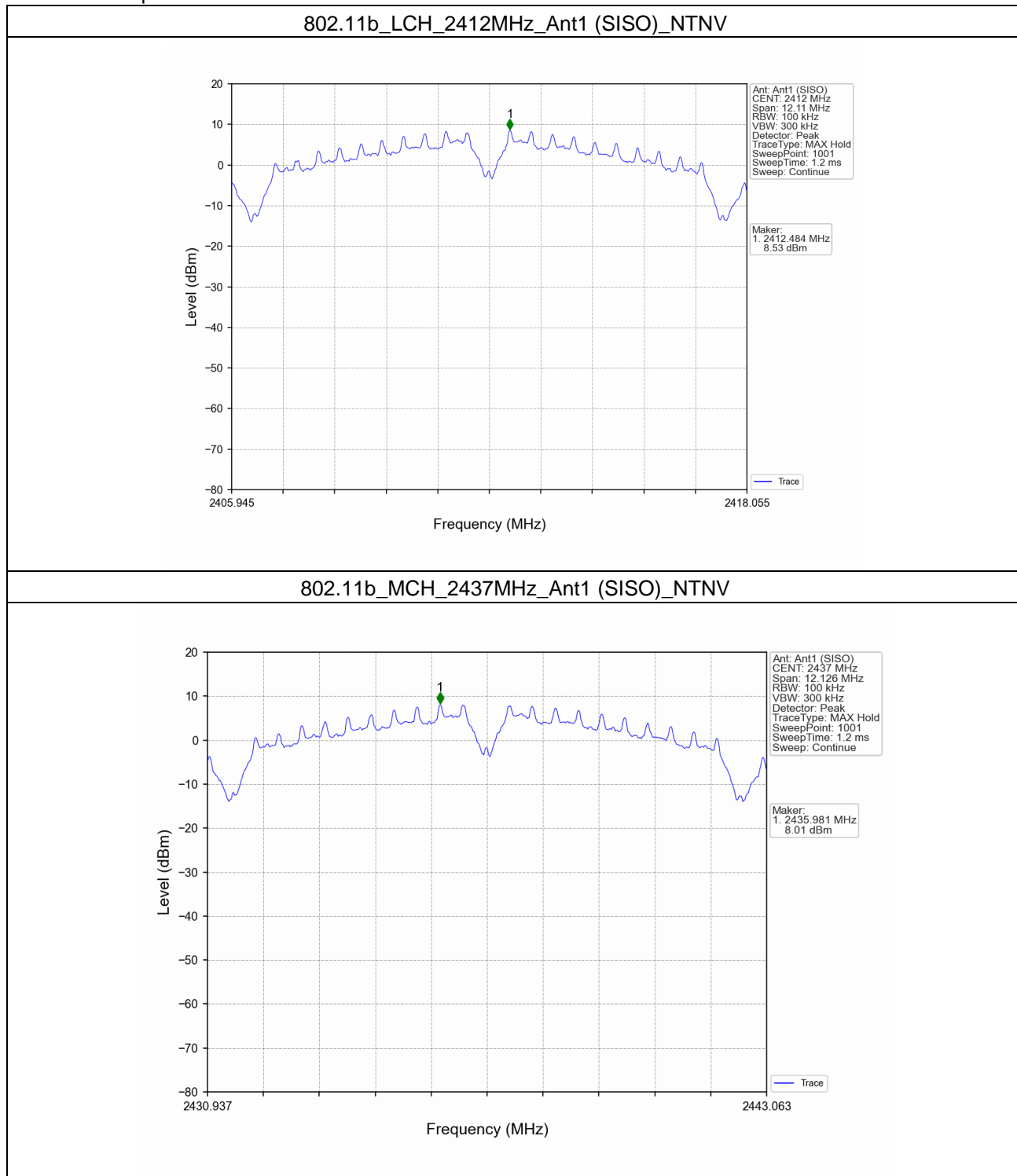
5.1 Ref

5.1.1 Test Result

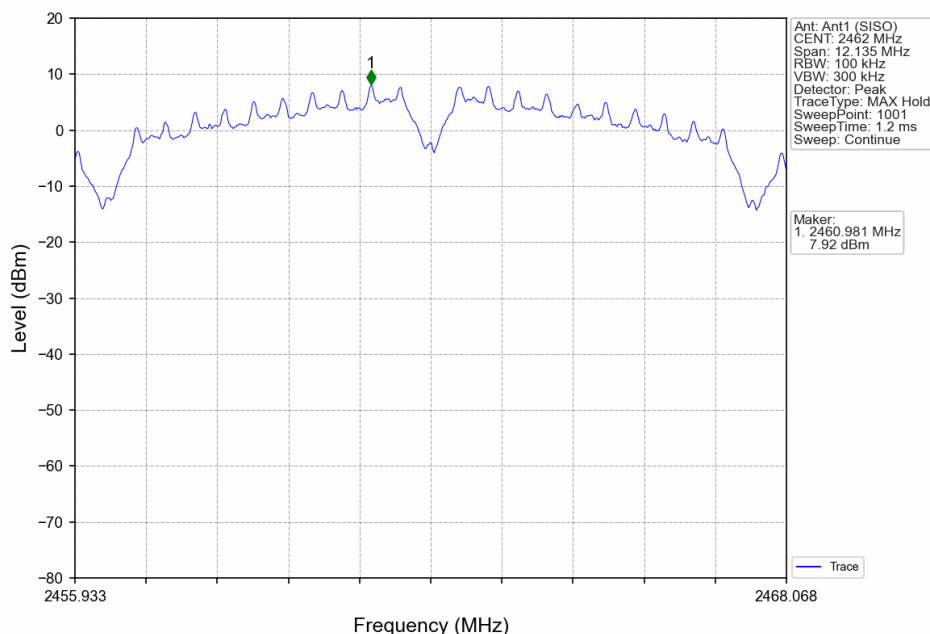
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	8.53
		2437	/	/	1	8.01
		2462	/	/	1	7.92
802.11g	SISO	2412	/	/	1	1.15
		2437	/	/	1	0.89
		2462	/	/	1	0.78
802.11n (HT20)	SISO	2412	/	/	1	0.92
		2437	/	/	1	0.78
		2462	/	/	1	0.79
802.11n (HT40)	SISO	2422	/	/	1	-2.44
		2437	/	/	1	-2.41
		2452	/	/	1	-2.32
802.11ax (HEW20)	SISO	2412	RU242	Left	1	0.98
		2437	RU242	Left	1	0.94
		2462	RU242	Left	1	0.86
802.11ax (HEW40)	SISO	2422	RU484	Left	1	-2.47
		2437	RU484	Left	1	-2.36
		2452	RU484	Left	1	-2.25



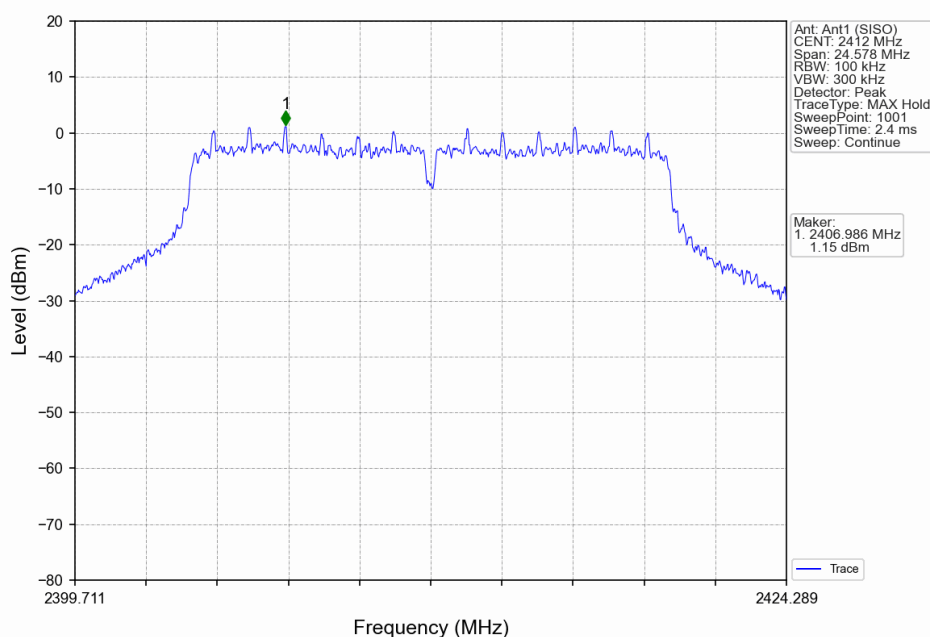
5.1.2 Test Graph



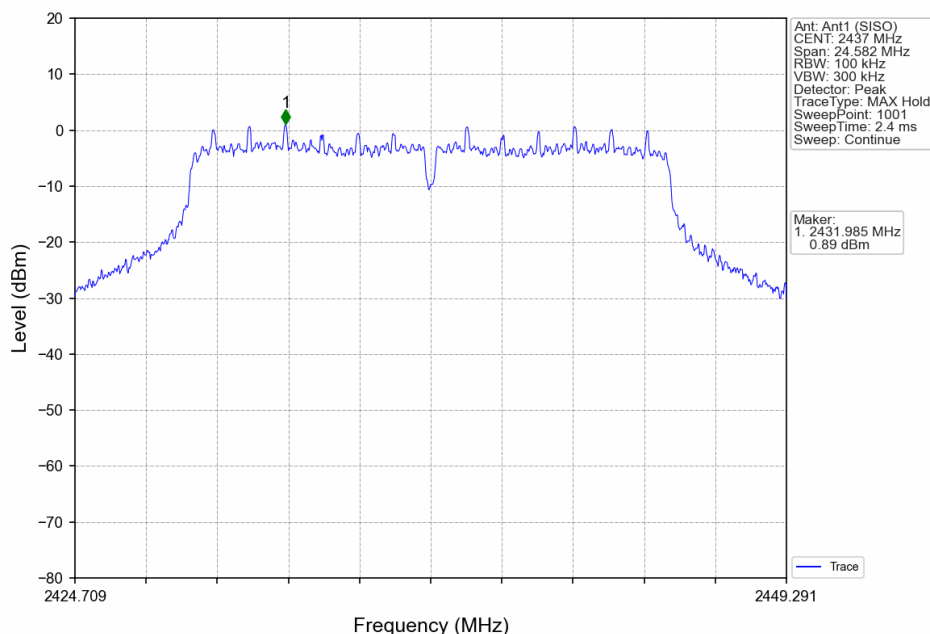
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



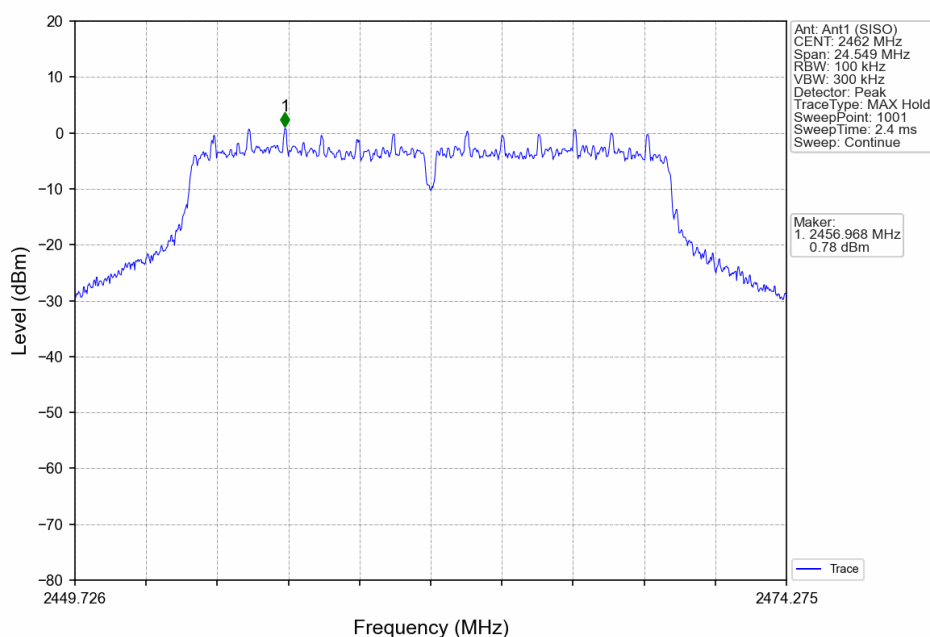
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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