1. Duty Cycle

1.1 Test Result

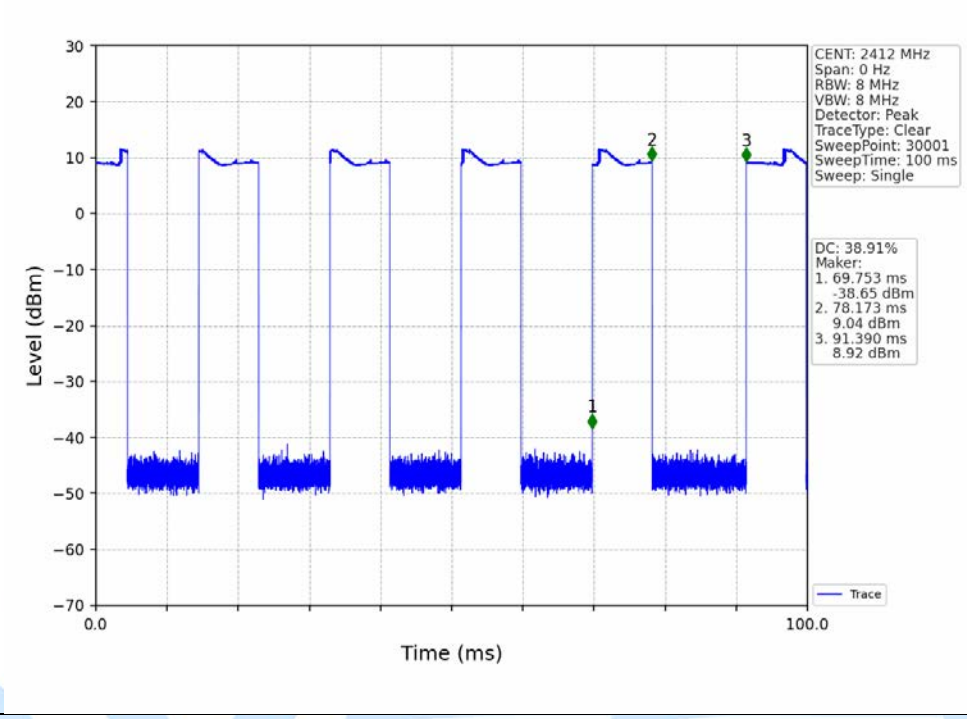
1.1.1 Ant1

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	/	/	8.420	21.637	38.91	4.10	6.76
		2437	/	/	8.417	18.437	45.65	3.41	0.01
		2462	/	/	8.417	18.440	45.65	3.41	0.02
802.11g	SISO	2412	/	/	1.397	11.423	12.23	9.13	0.01
		2437	/	/	1.397	11.423	12.23	9.13	0.03
		2462	/	/	1.397	11.427	12.23	9.13	0.03
802.11n (HT20)	SISO	2412	/	/	5.090	17.733	28.70	5.42	4.98
		2437	/	/	5.087	15.117	33.65	4.73	0.02
		2462	/	/	5.087	15.117	33.65	4.73	0.02
802.11n (HT40)	SISO	2422	/	/	4.896	14.923	32.81	4.84	0.02
		2437	/	/	4.896	15.160	32.30	4.91	0.53
		2452	/	/	4.897	14.927	32.81	4.84	0.02
802.11ax (HEW20)	SISO	2412	RU242	Left	3.877	17.130	22.63	6.45	5.26
		2437	RU242	Left	3.876	13.906	27.87	5.55	0.04
		2462	RU242	Left	3.877	13.907	27.88	5.55	0.00
802.11ax (HEW40)	SISO	2422	RU484	Left	3.874	15.884	24.39	6.13	3.51
		2437	RU484	Left	3.873	13.900	27.86	5.55	0.02
		2452	RU484	Left	3.873	13.903	27.86	5.55	0.02

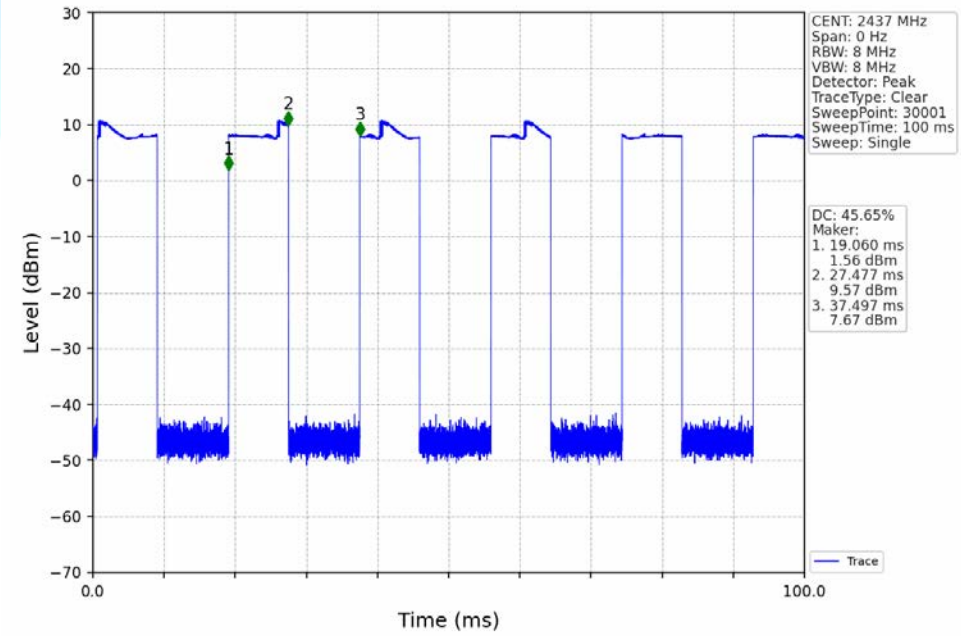
1.2 Test Graph

1.2.1 Ant1

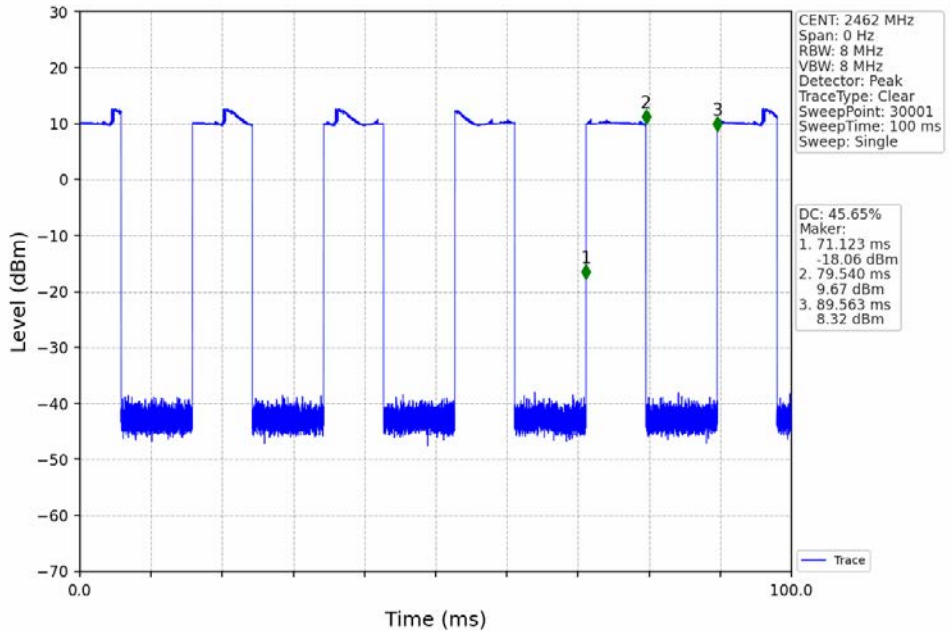
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



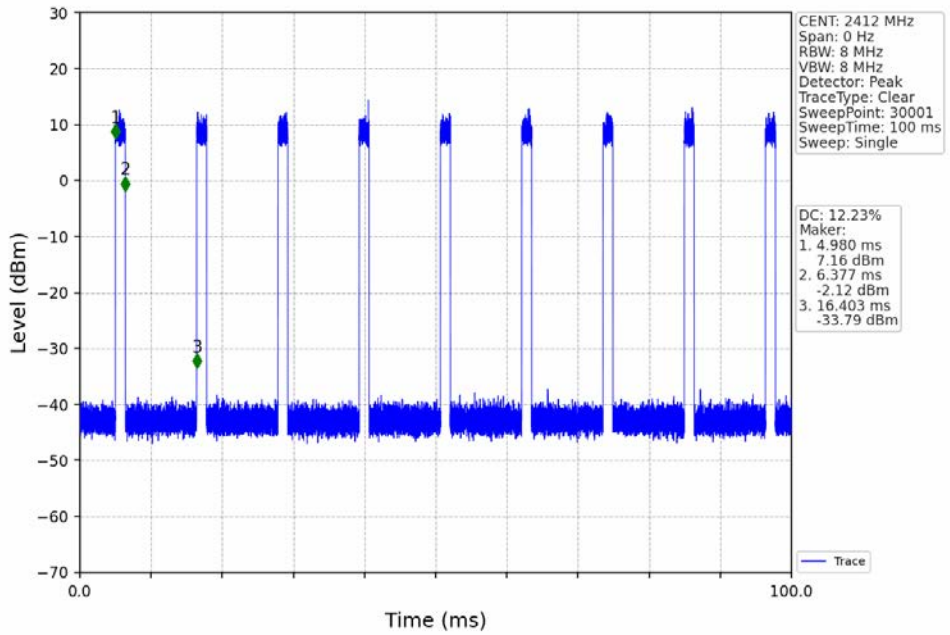
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



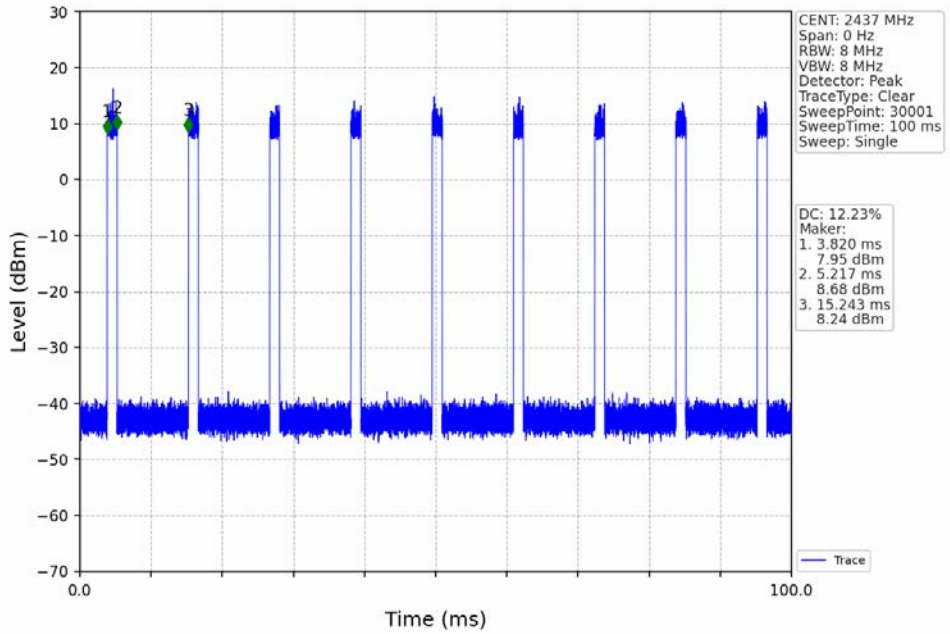
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



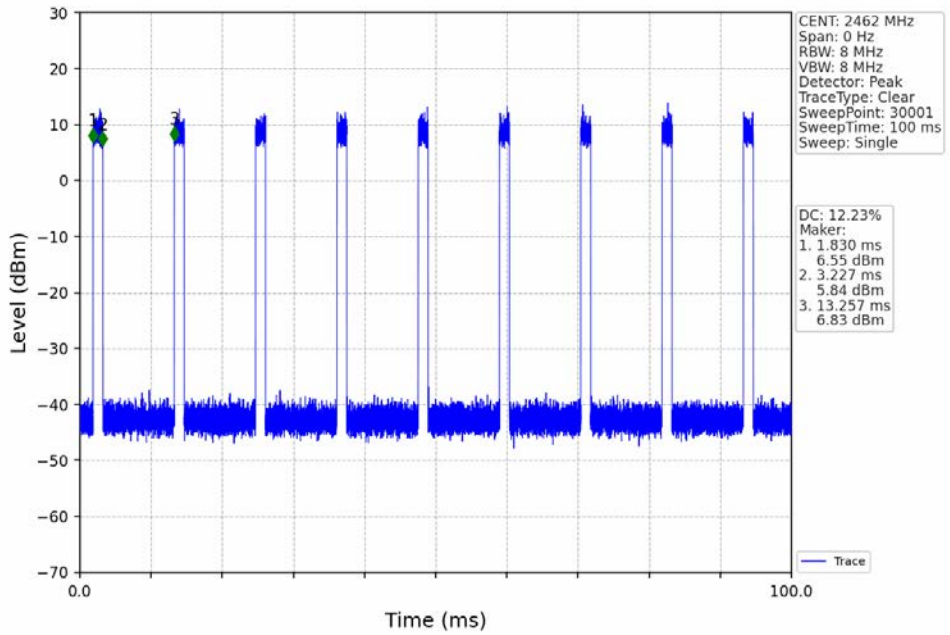
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



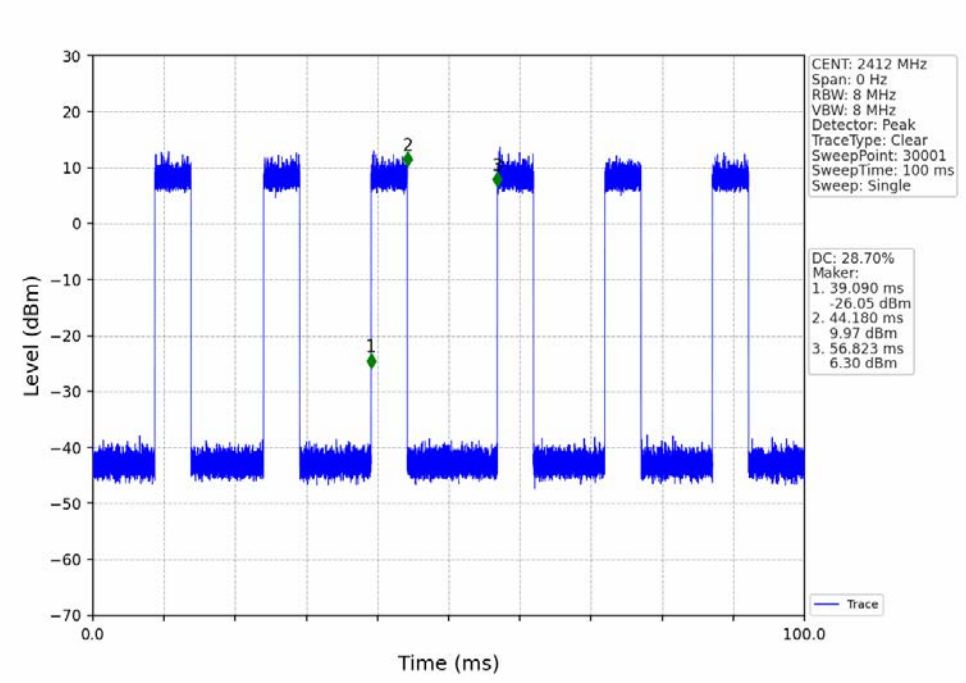
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



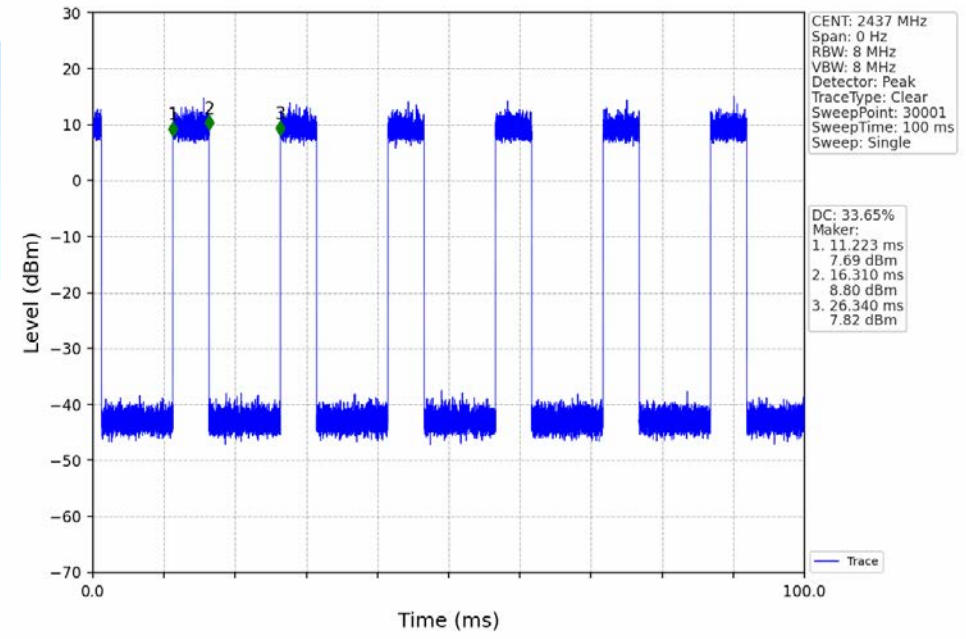
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



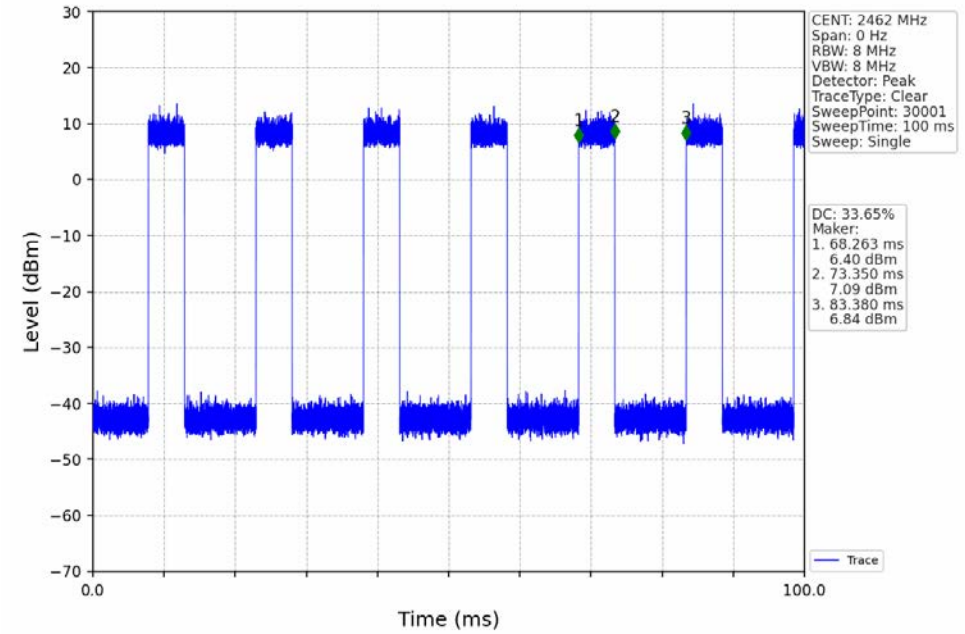
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



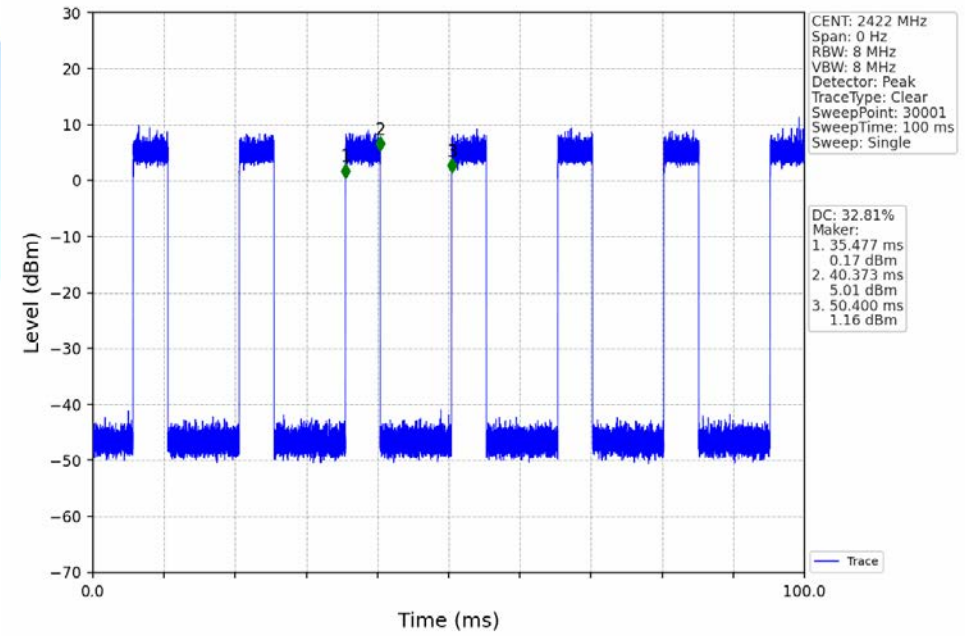
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



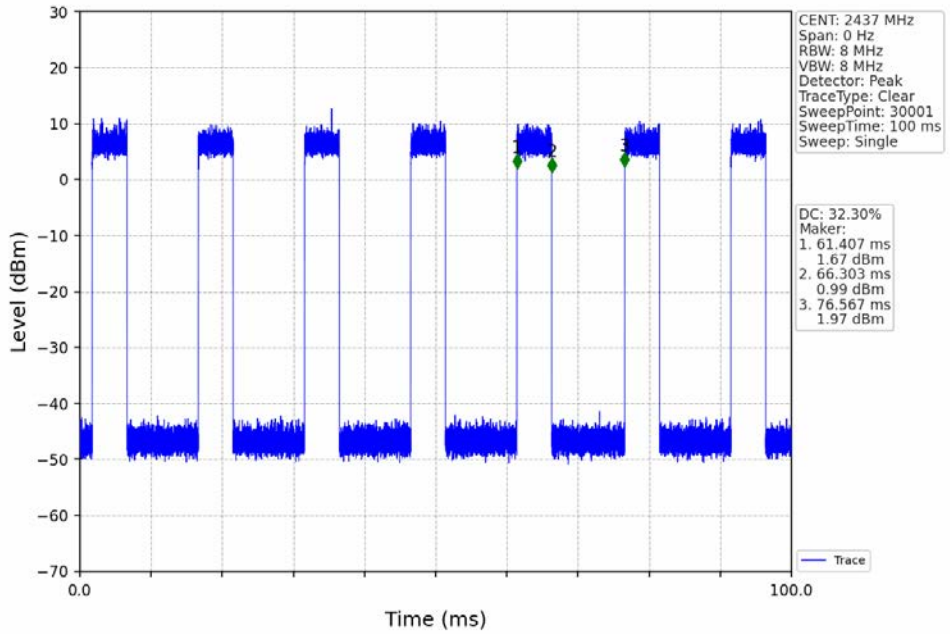
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



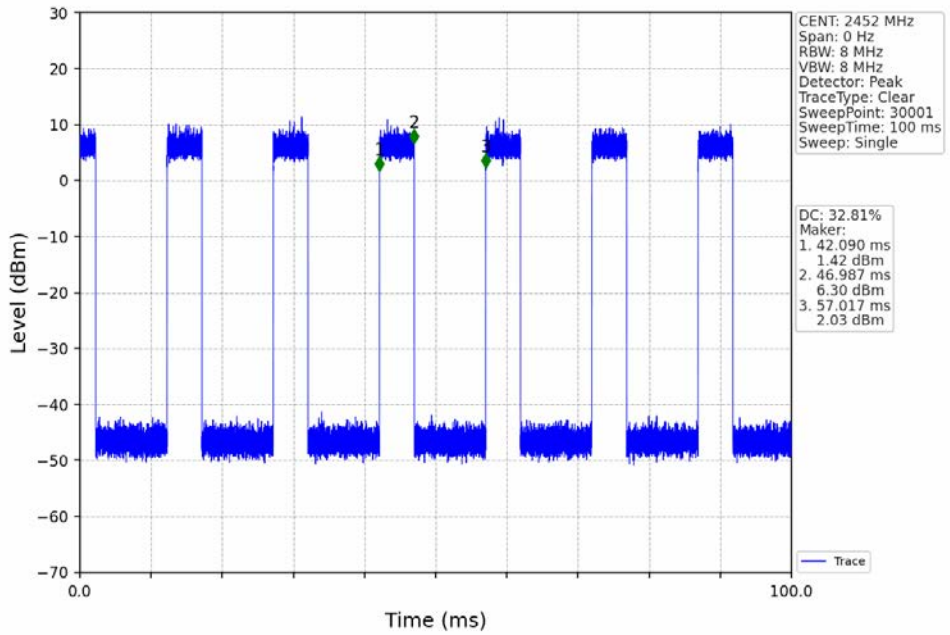
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



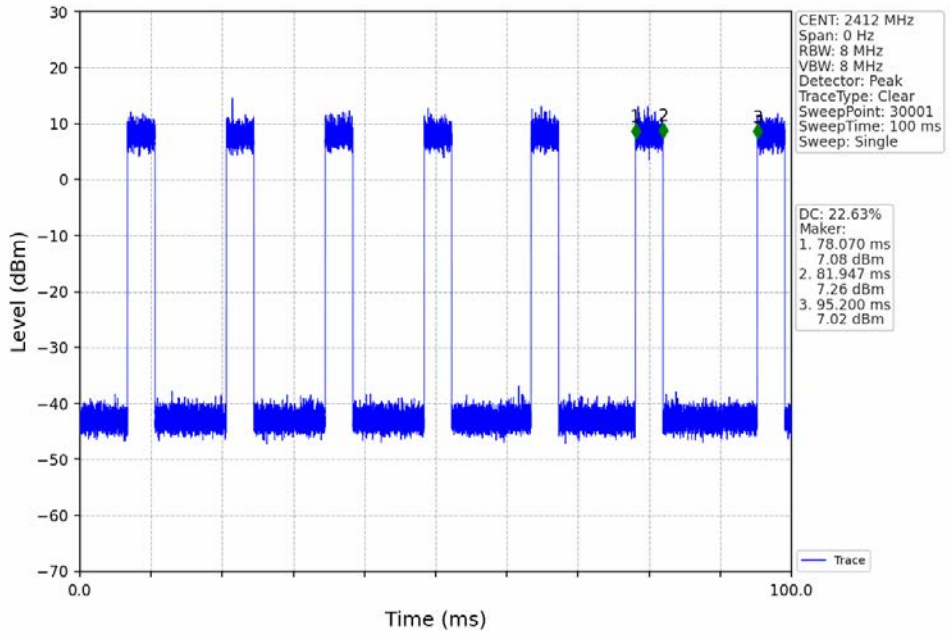
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



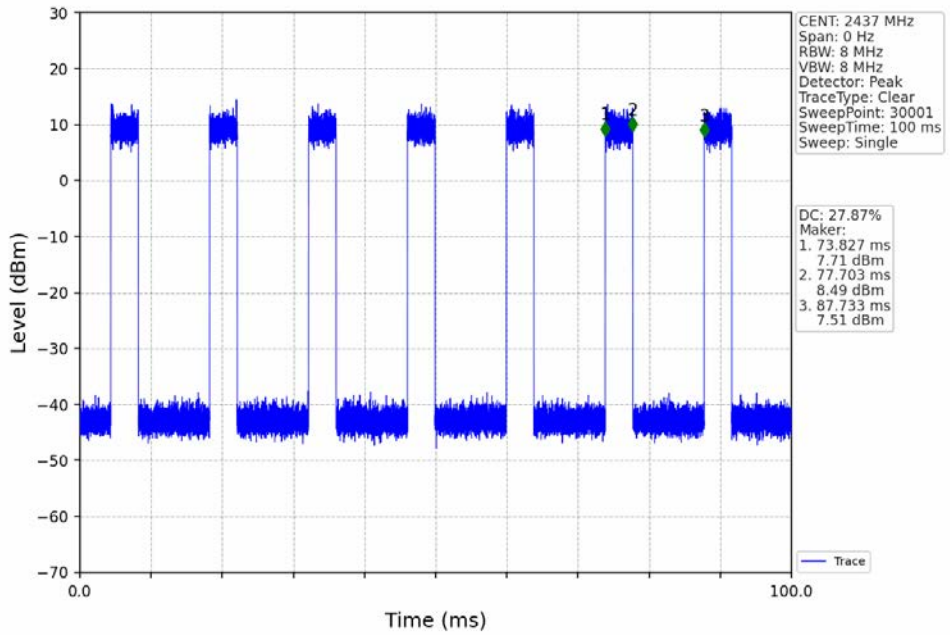
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



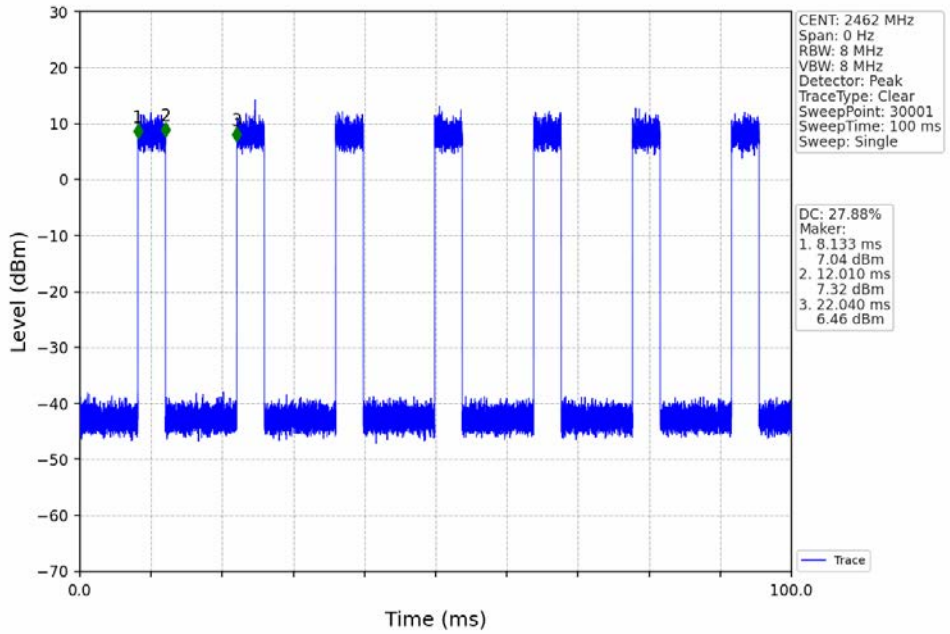
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



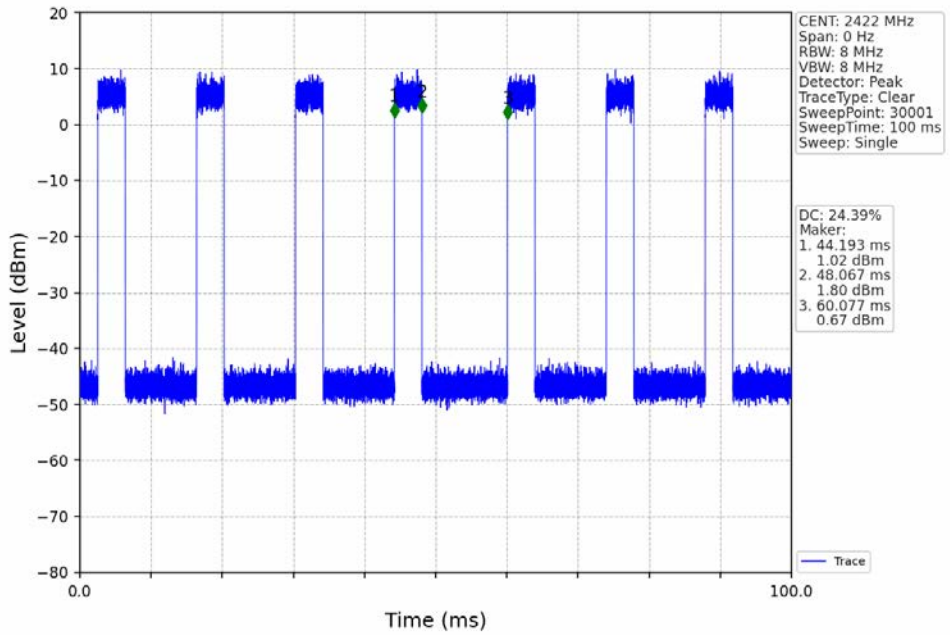
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



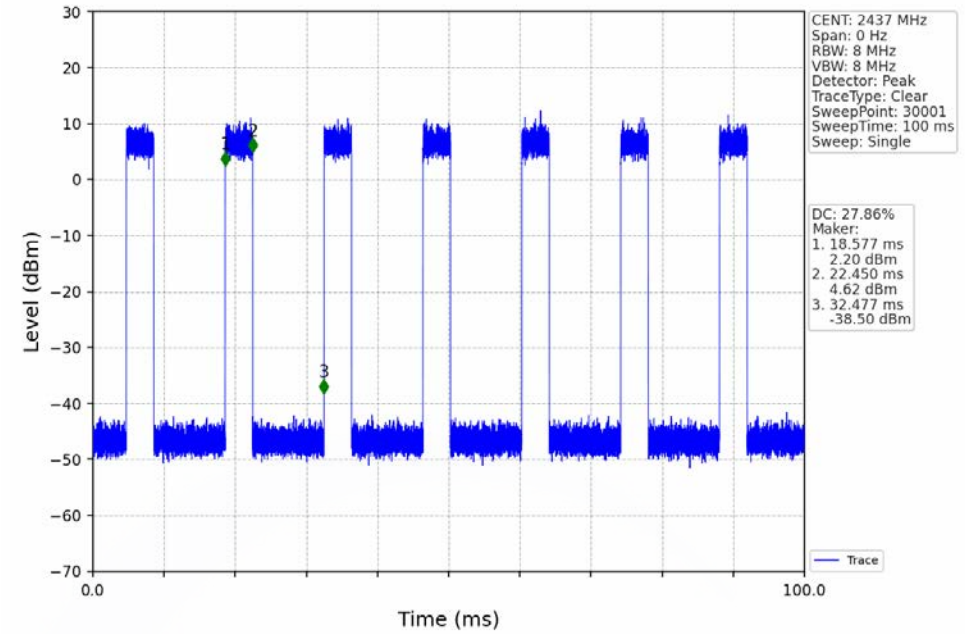
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



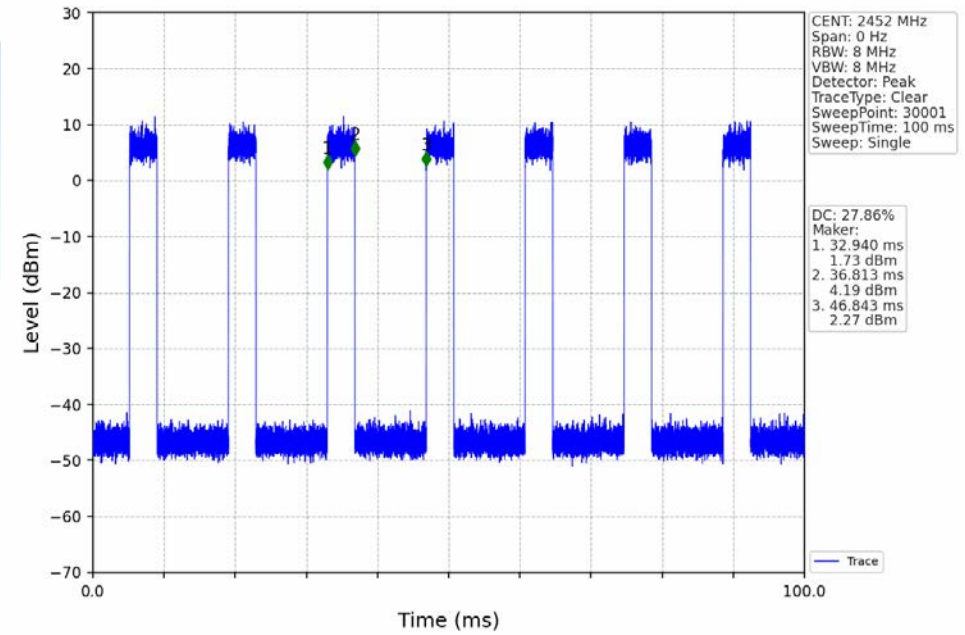
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



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	14.775	/	Pass
		2437	/	/	1	14.675	/	Pass
		2462	/	/	1	14.782	/	Pass
802.11g	SISO	2412	/	/	1	18.140	/	Pass
		2437	/	/	1	18.434	/	Pass
		2462	/	/	1	18.265	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	19.430	/	Pass
		2437	/	/	1	19.309	/	Pass
		2462	/	/	1	19.316	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	37.562	/	Pass
		2437	/	/	1	37.520	/	Pass
		2452	/	/	1	37.418	/	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	19.646	/	Pass
		2437	RU242	Left	1	19.610	/	Pass
		2462	RU242	Left	1	19.607	/	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	38.458	/	Pass
		2437	RU484	Left	1	38.497	/	Pass
		2452	RU484	Left	1	38.378	/	Pass

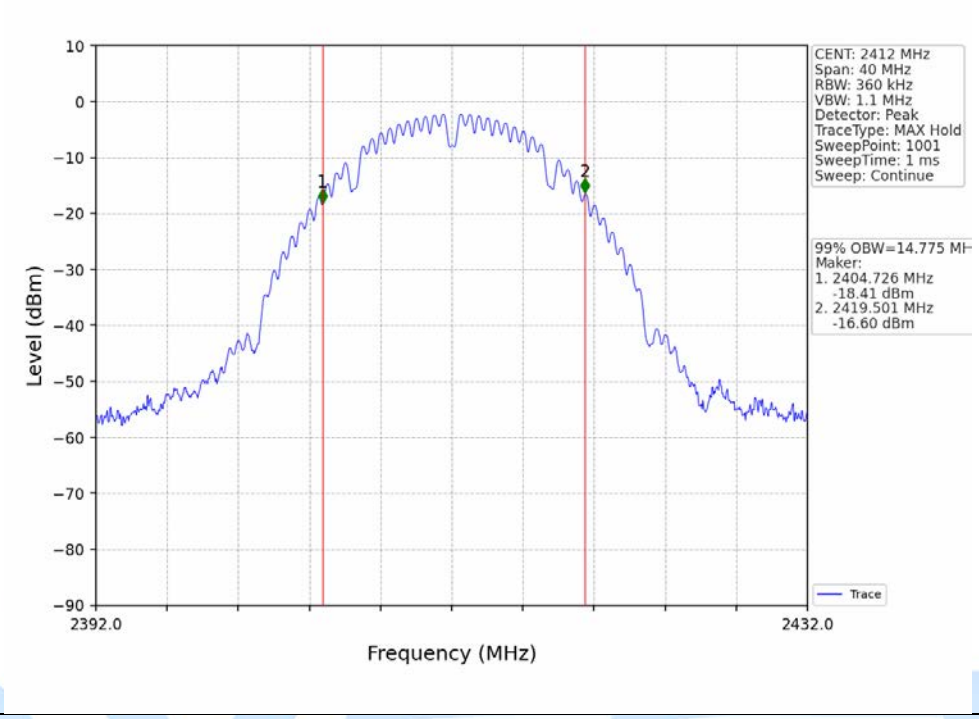
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	10.066	>=0.5	Pass
		2437	/	/	1	9.586	>=0.5	Pass
		2462	/	/	1	10.048	>=0.5	Pass
802.11g	SISO	2412	/	/	1	15.814	>=0.5	Pass
		2437	/	/	1	15.668	>=0.5	Pass
		2462	/	/	1	15.105	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	16.254	>=0.5	Pass
		2437	/	/	1	17.078	>=0.5	Pass
		2462	/	/	1	16.533	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.149	>=0.5	Pass
		2437	/	/	1	35.525	>=0.5	Pass
		2452	/	/	1	35.003	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	18.560	>=0.5	Pass
		2437	RU242	Left	1	17.453	>=0.5	Pass
		2462	RU242	Left	1	17.879	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	36.360	>=0.5	Pass
		2437	RU484	Left	1	36.355	>=0.5	Pass
		2452	RU484	Left	1	36.367	>=0.5	Pass

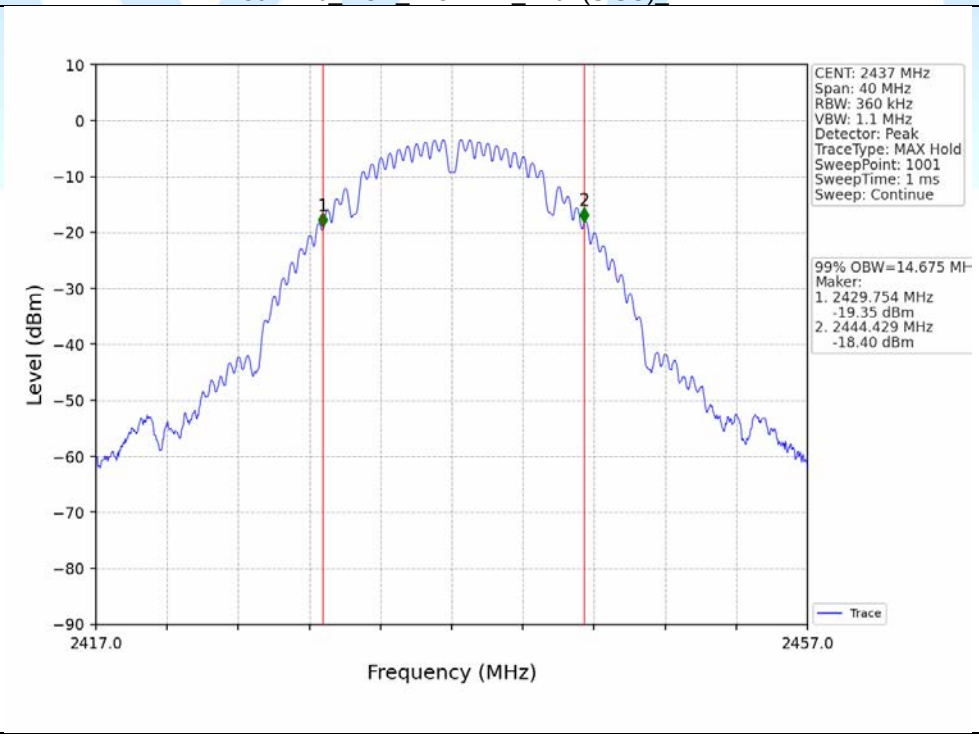
2.2 Test Graph

2.2.1 OBW

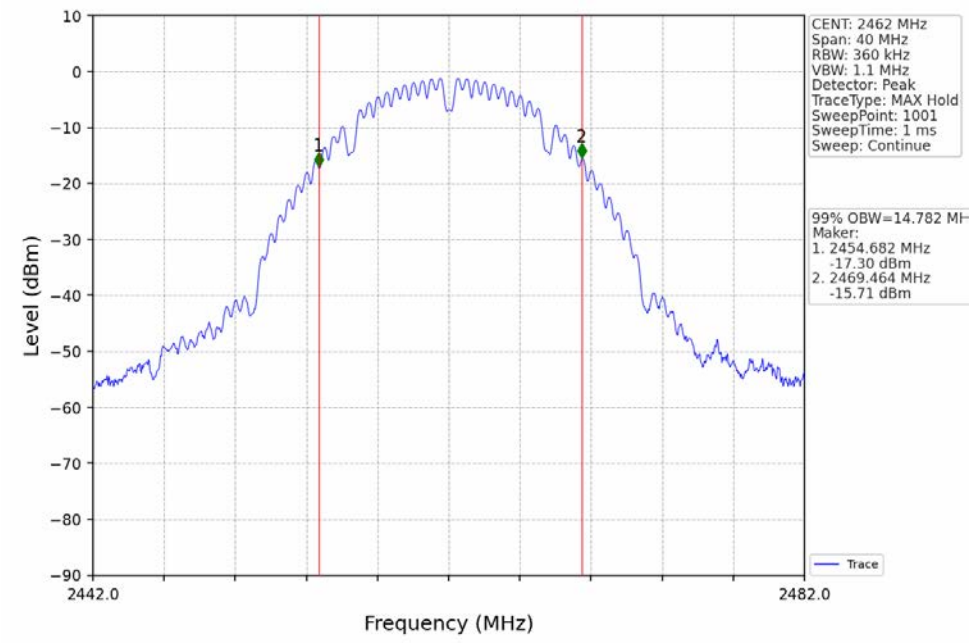
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



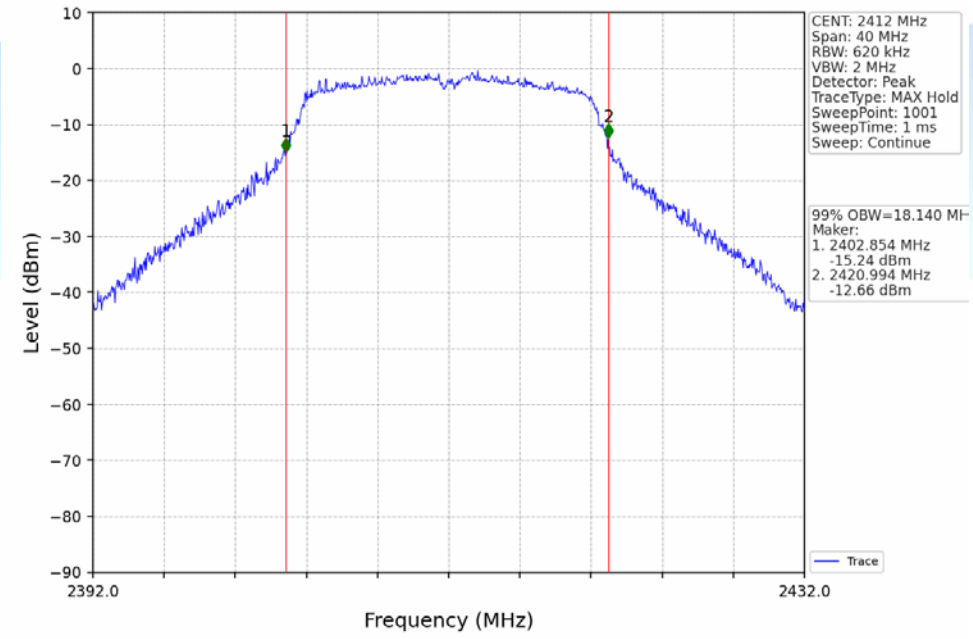
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



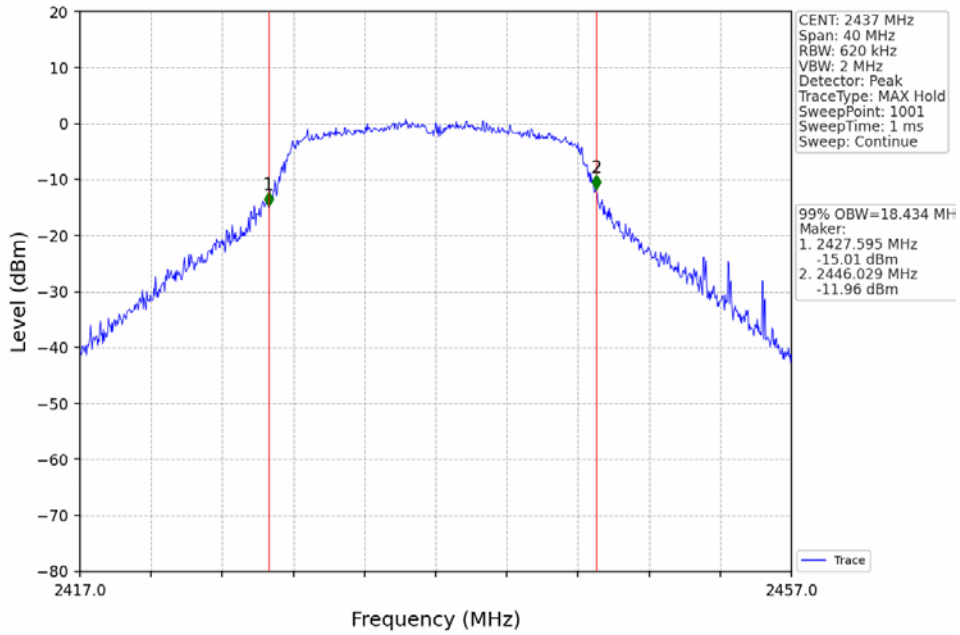
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



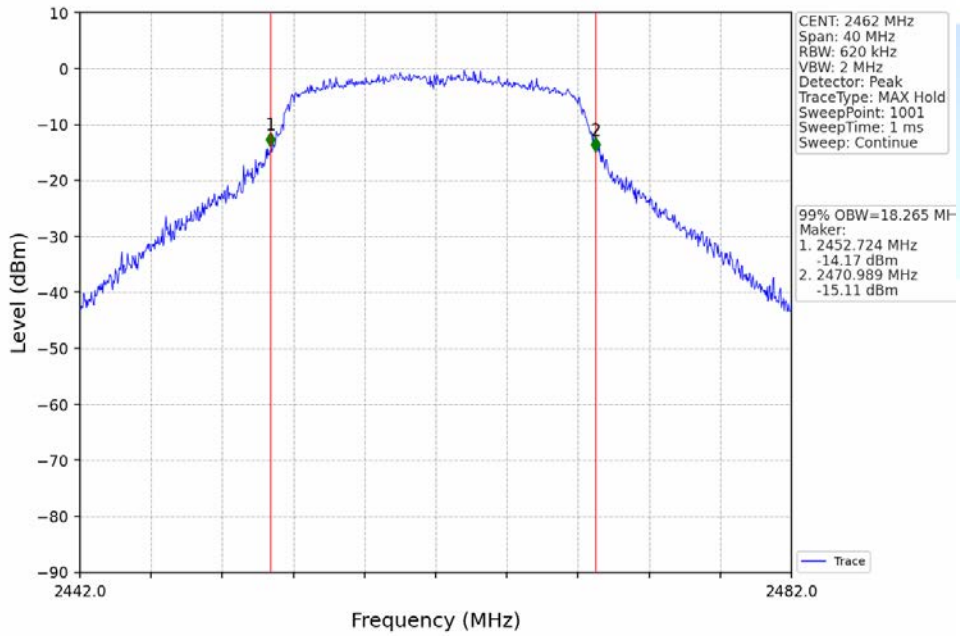
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



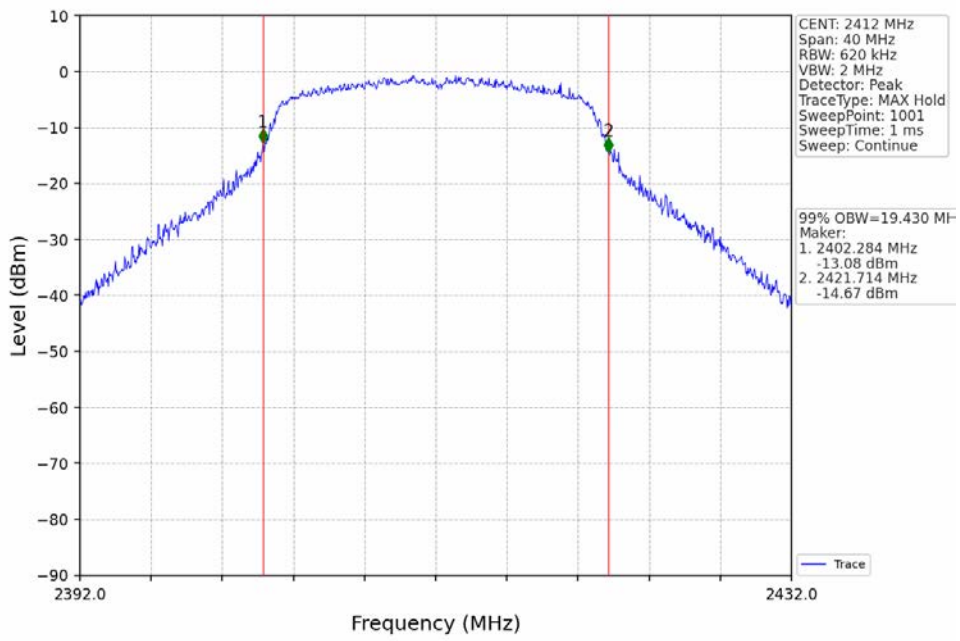
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



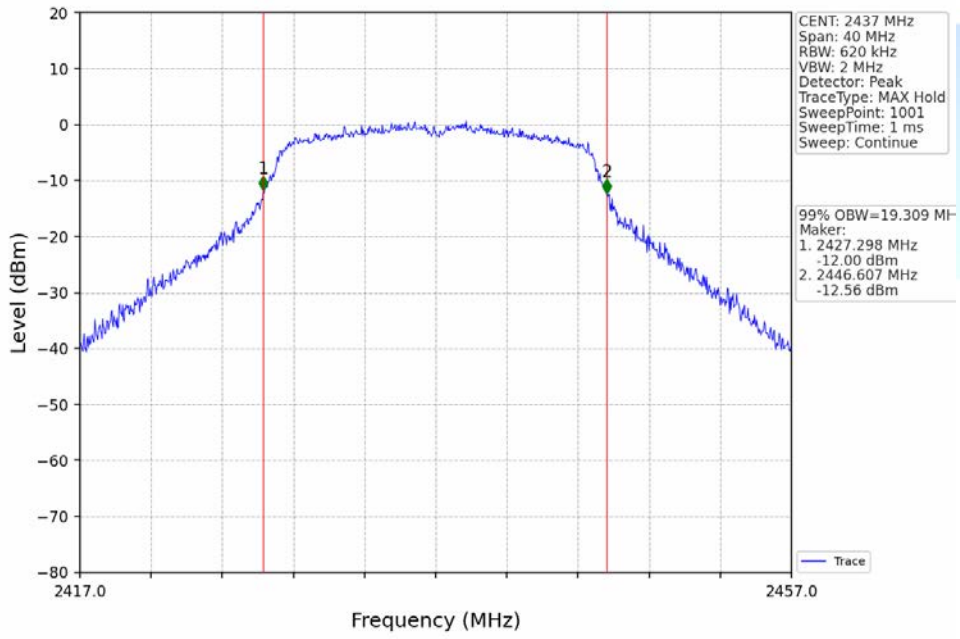
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



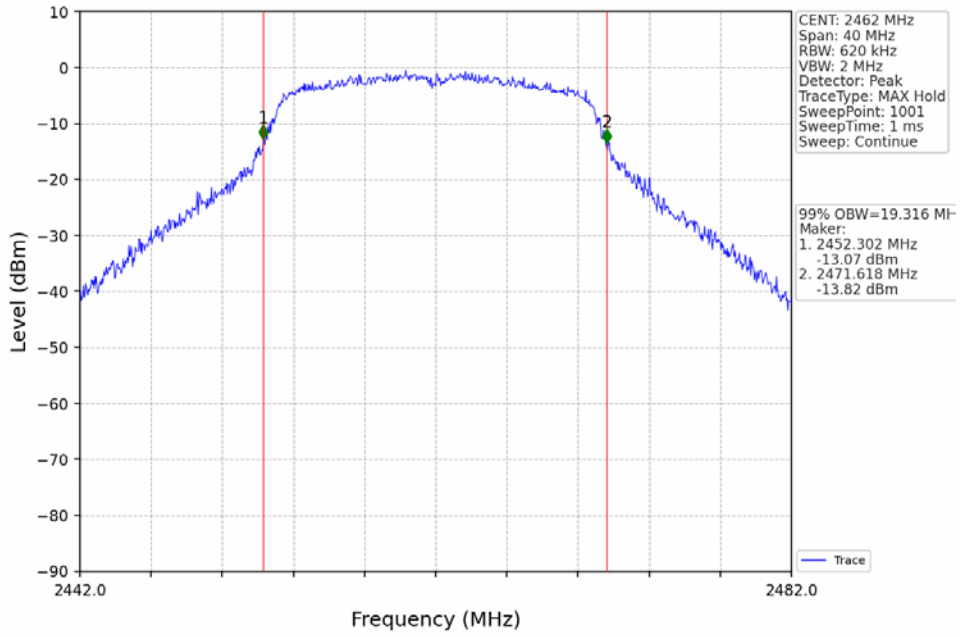
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



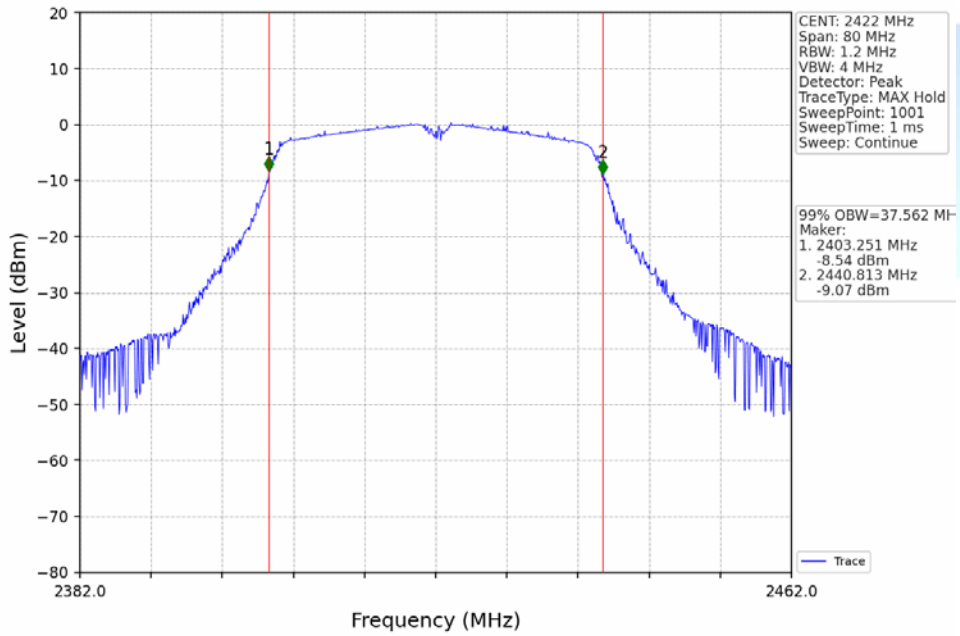
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



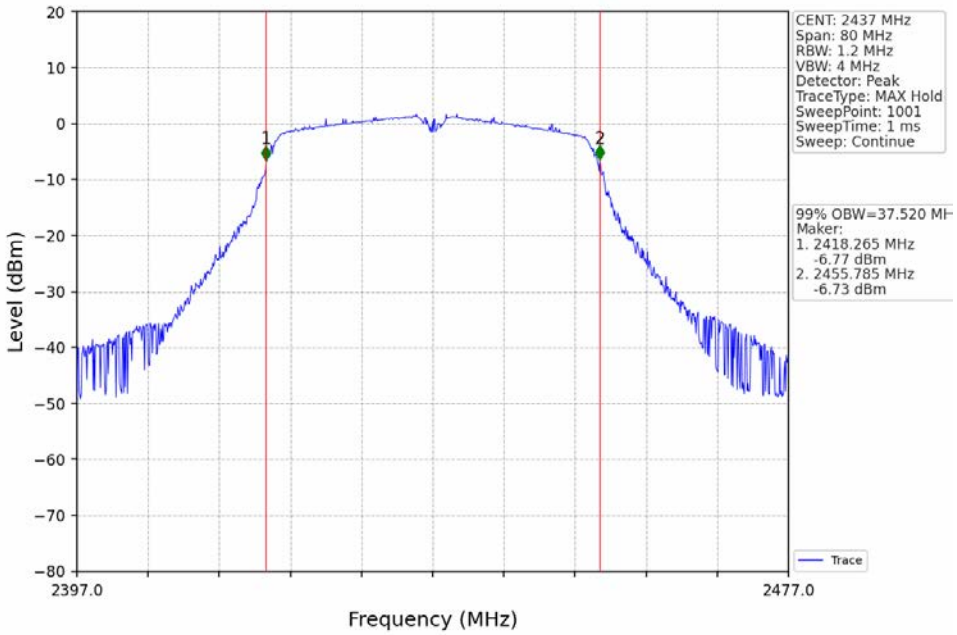
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



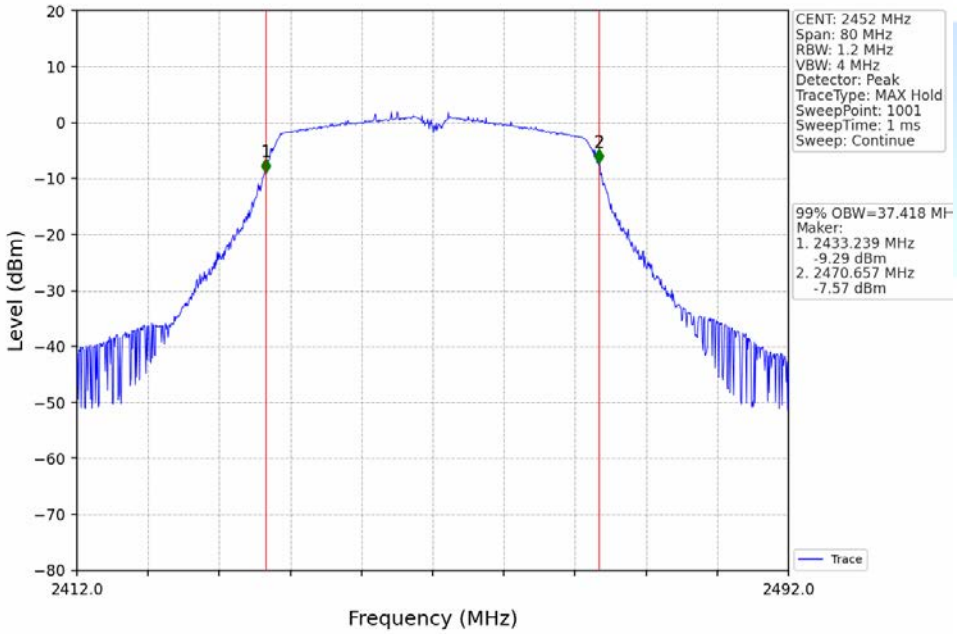
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



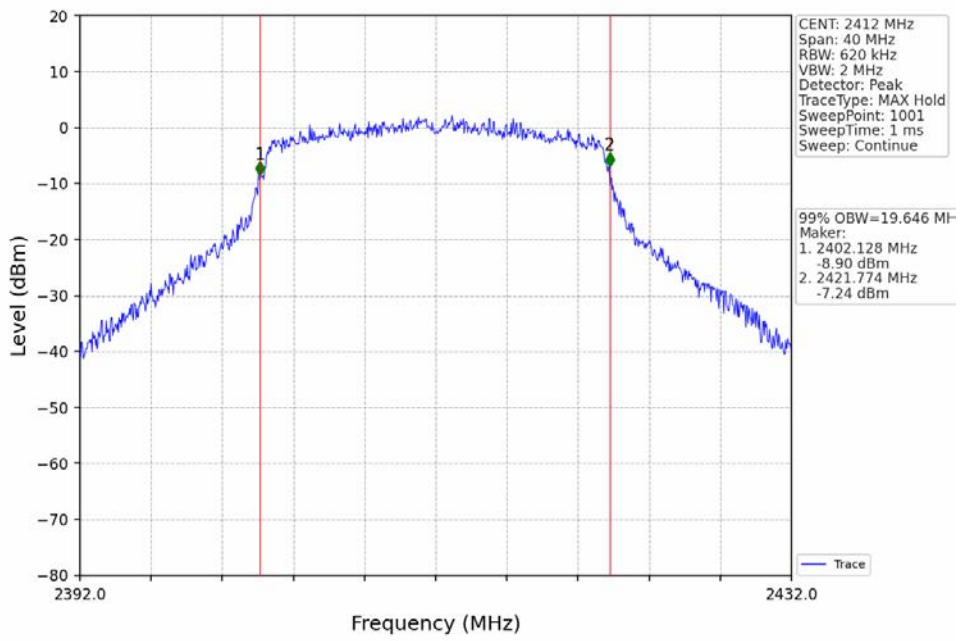
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



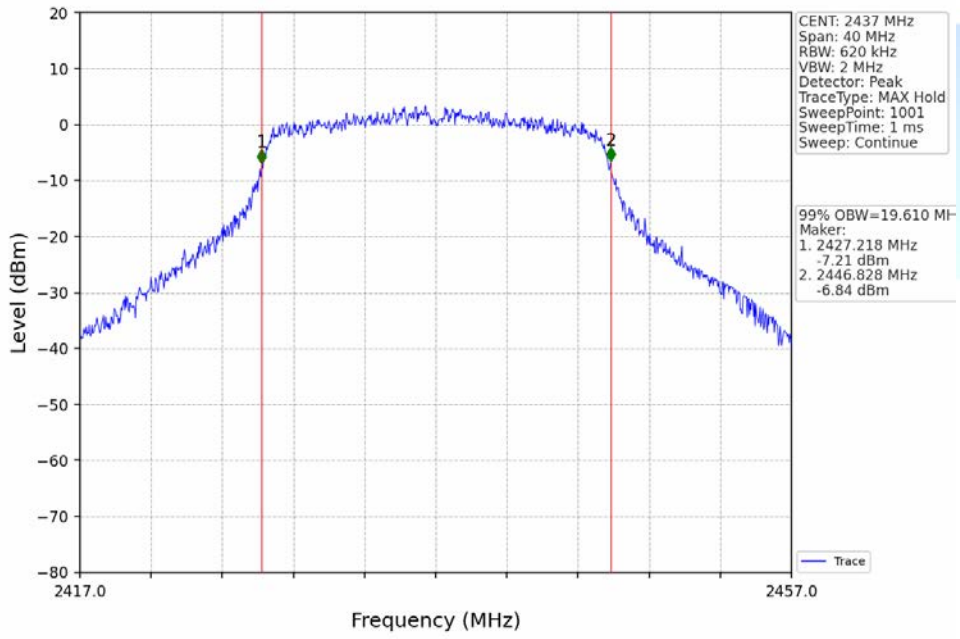
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



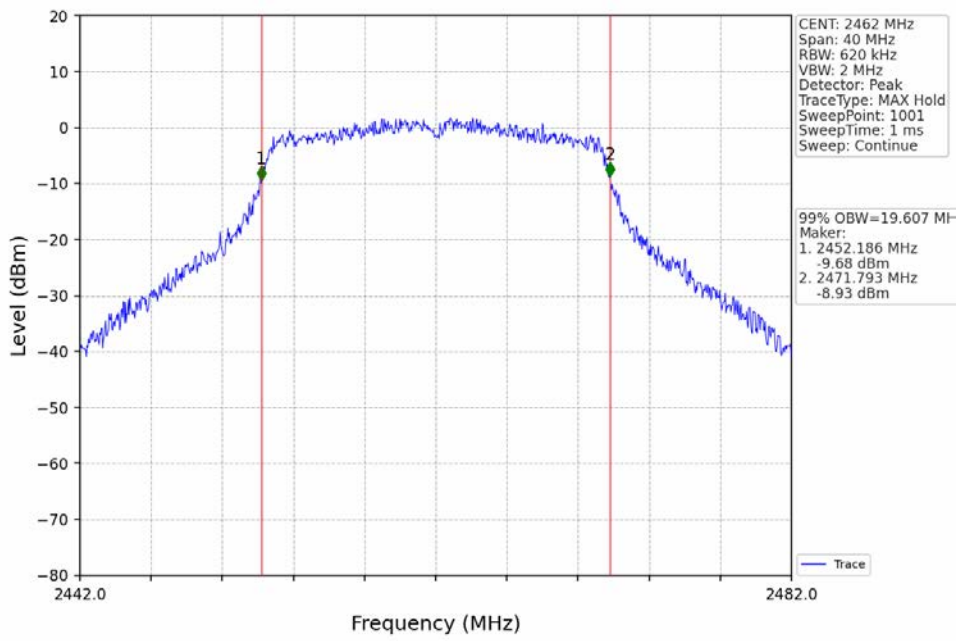
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



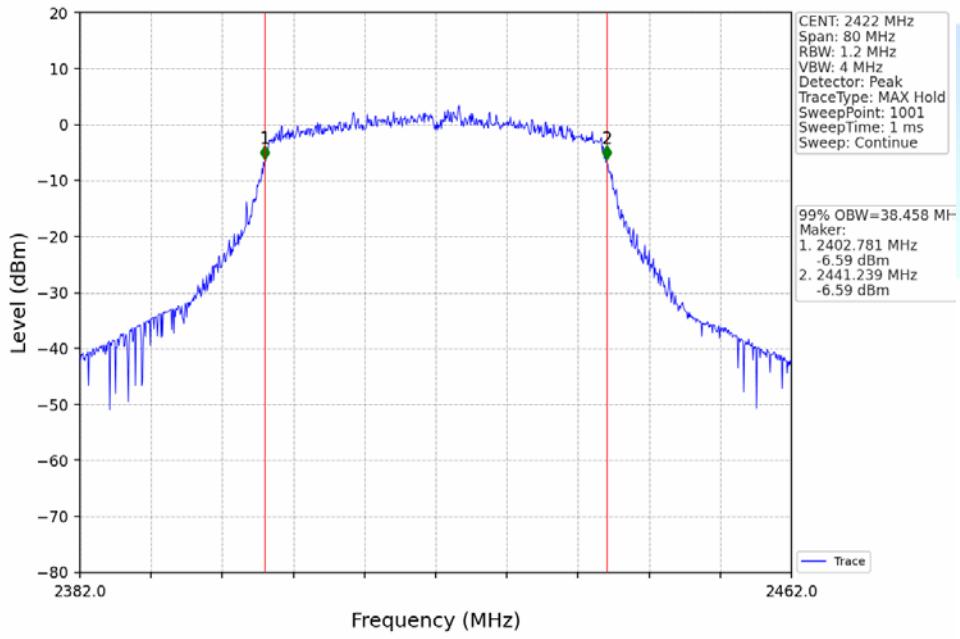
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



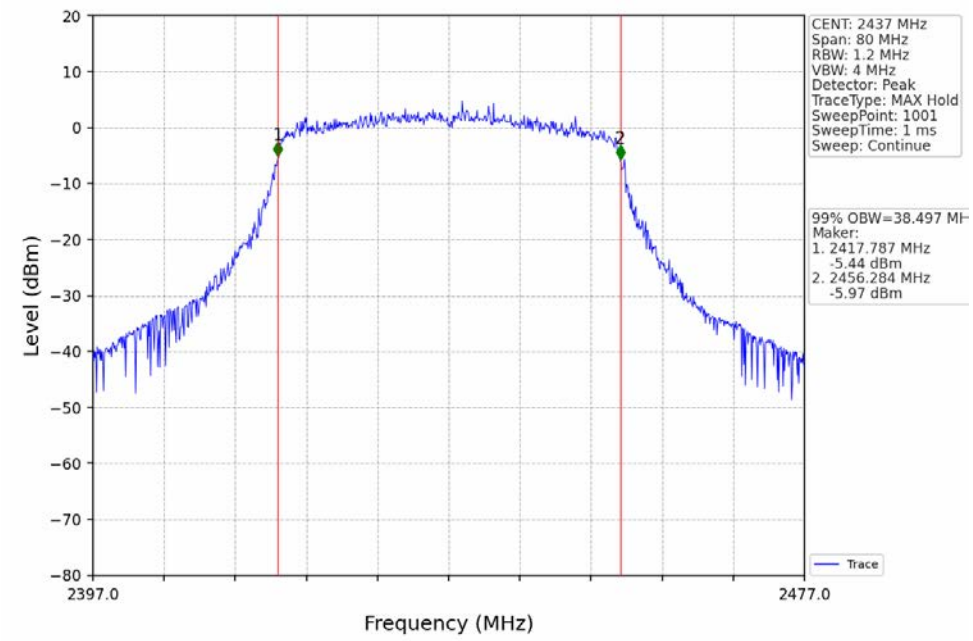
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



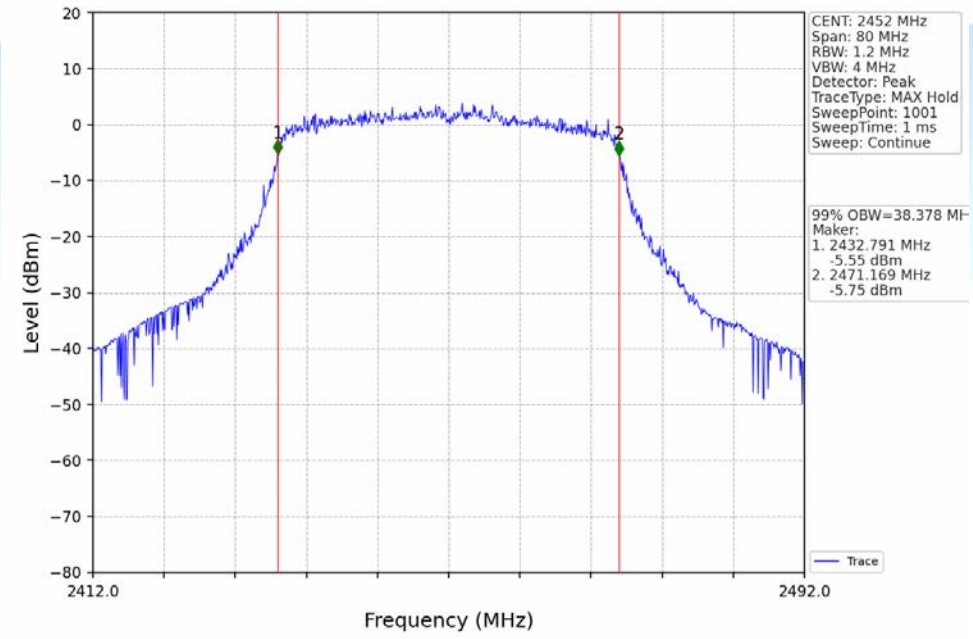
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV

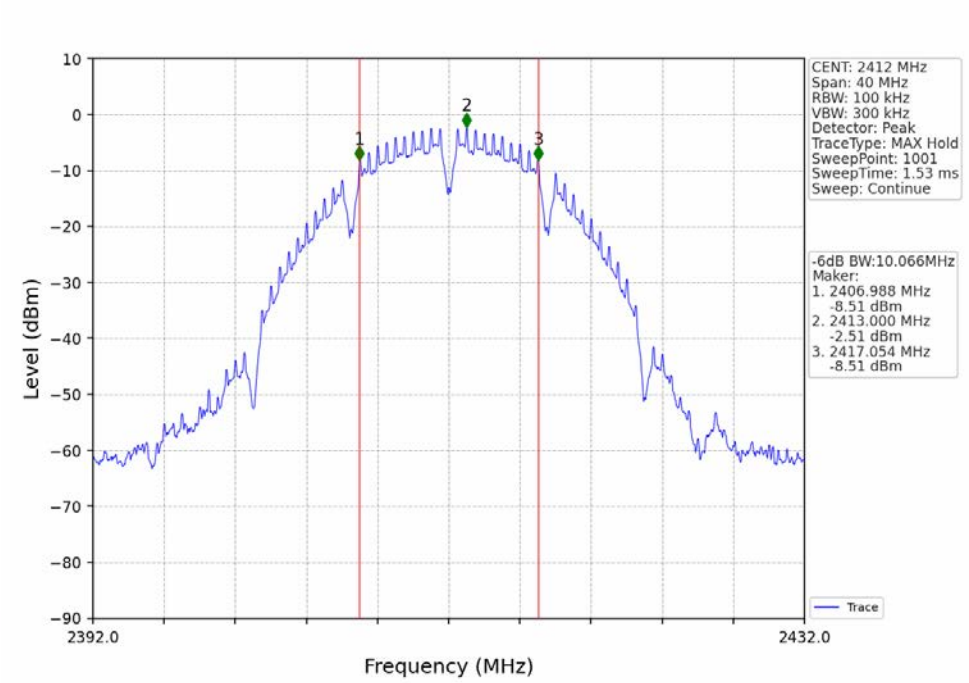


802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV

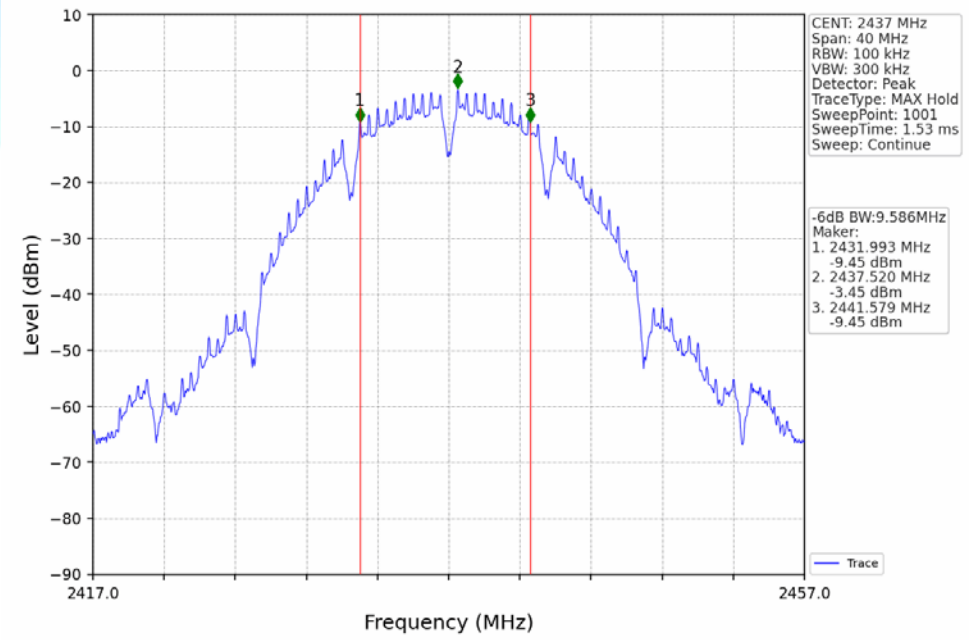


2.2.2 6dB BW

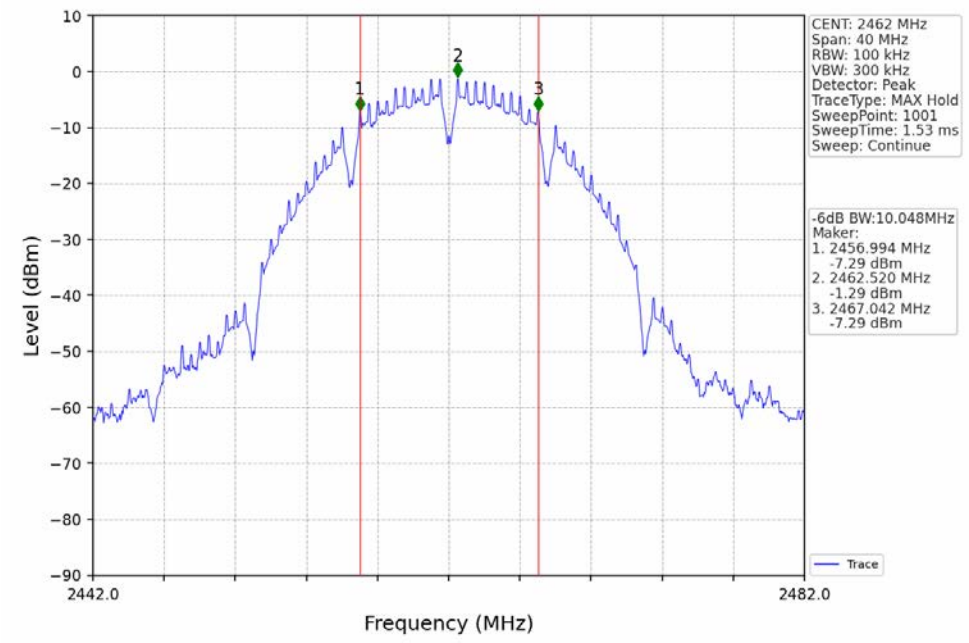
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



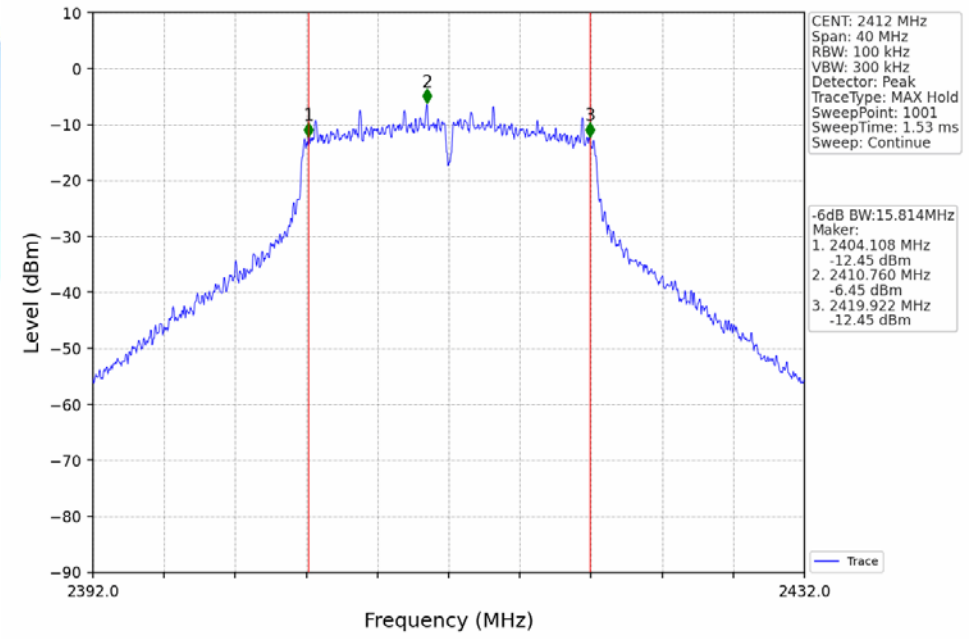
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



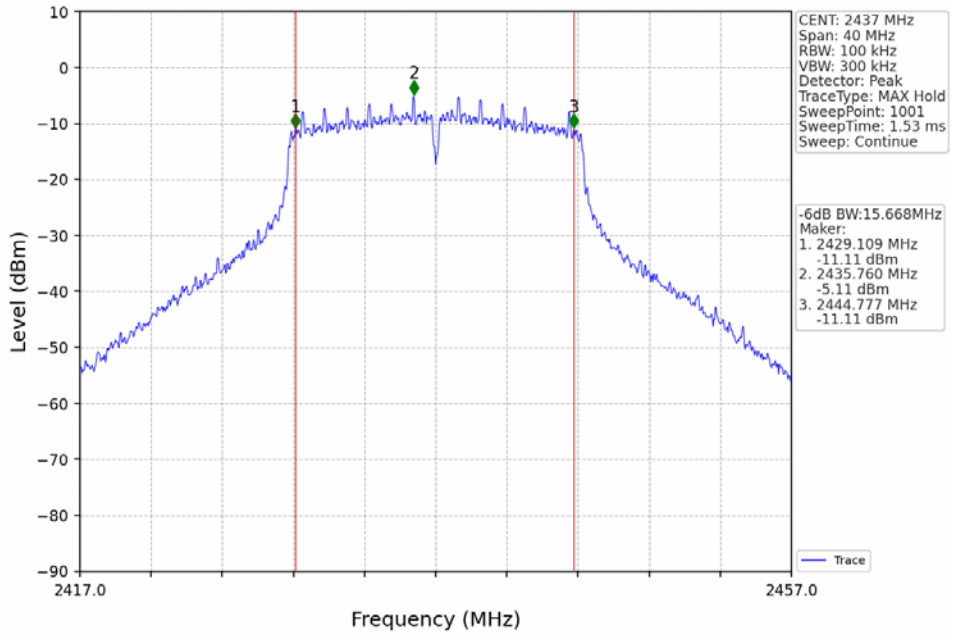
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



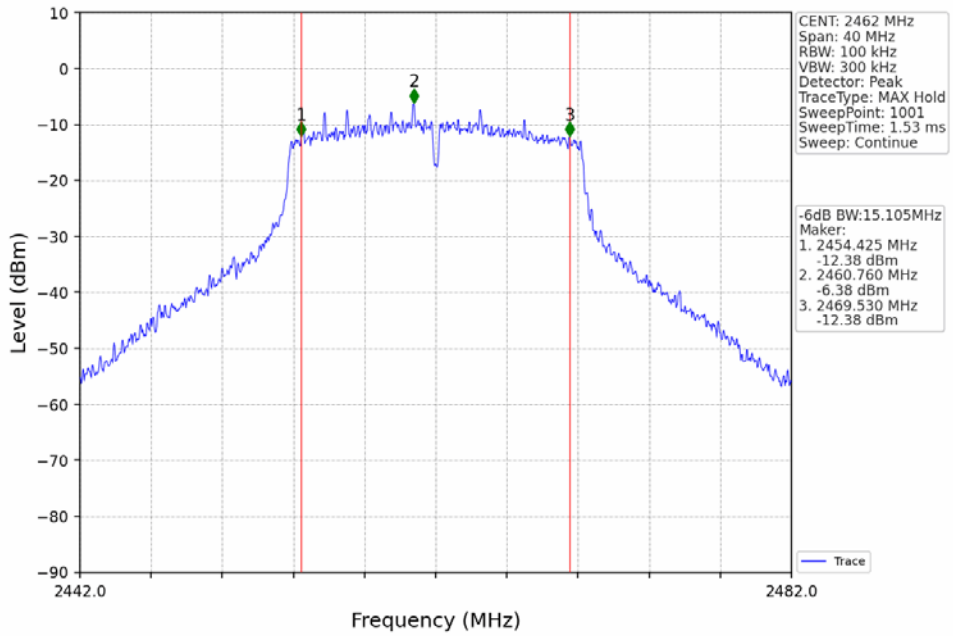
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



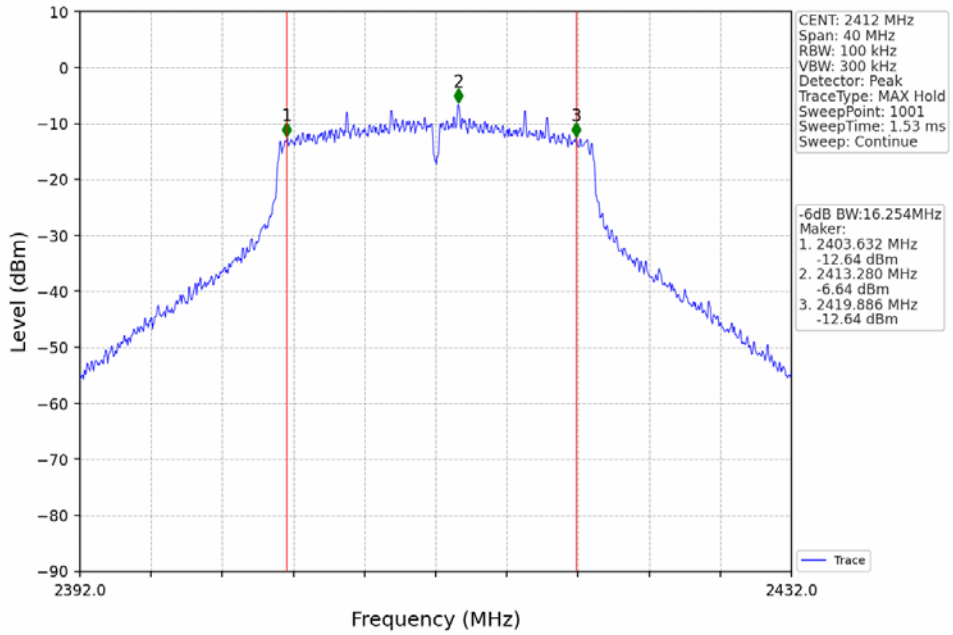
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



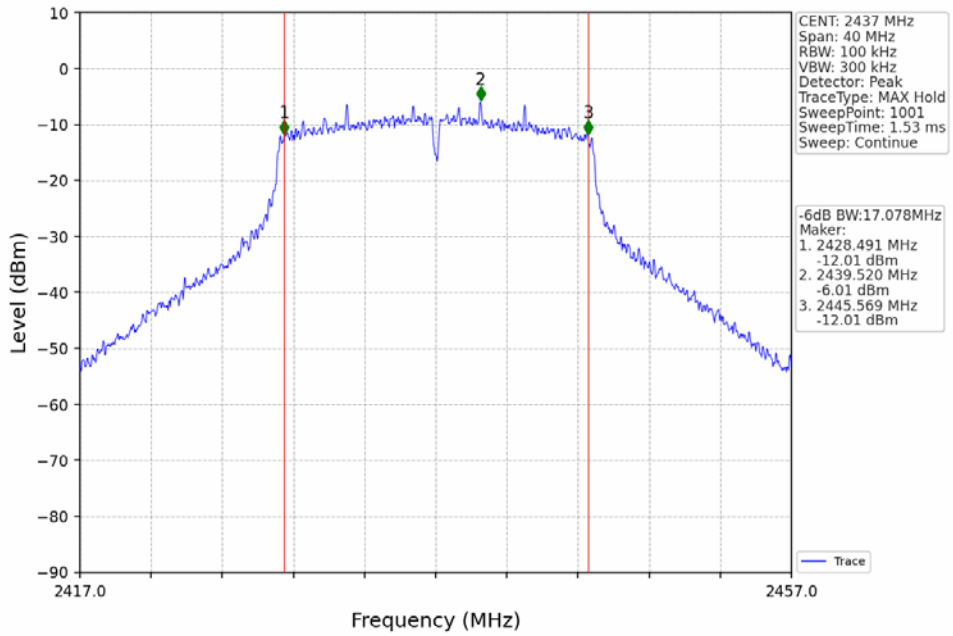
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



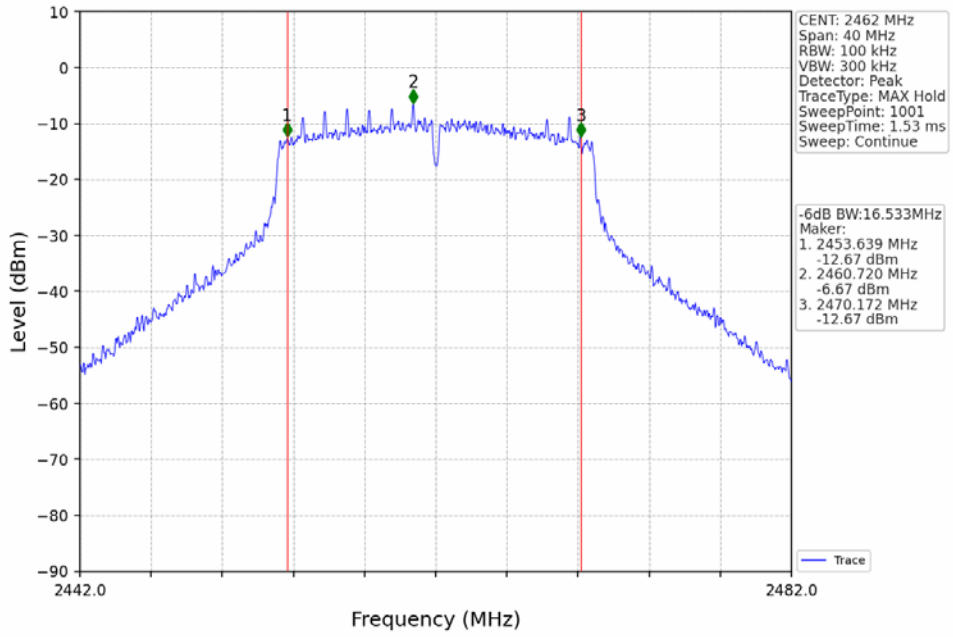
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



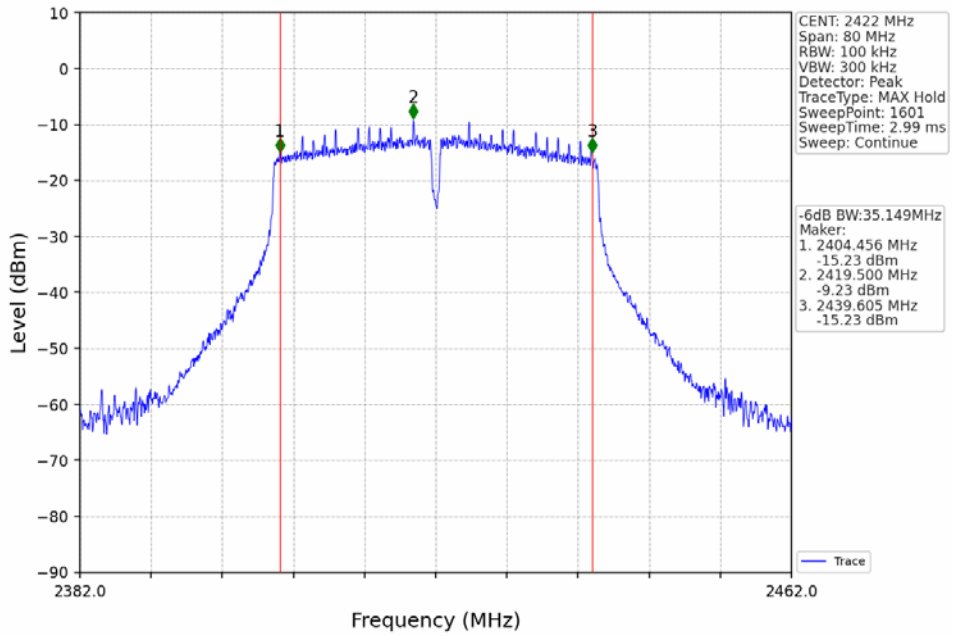
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



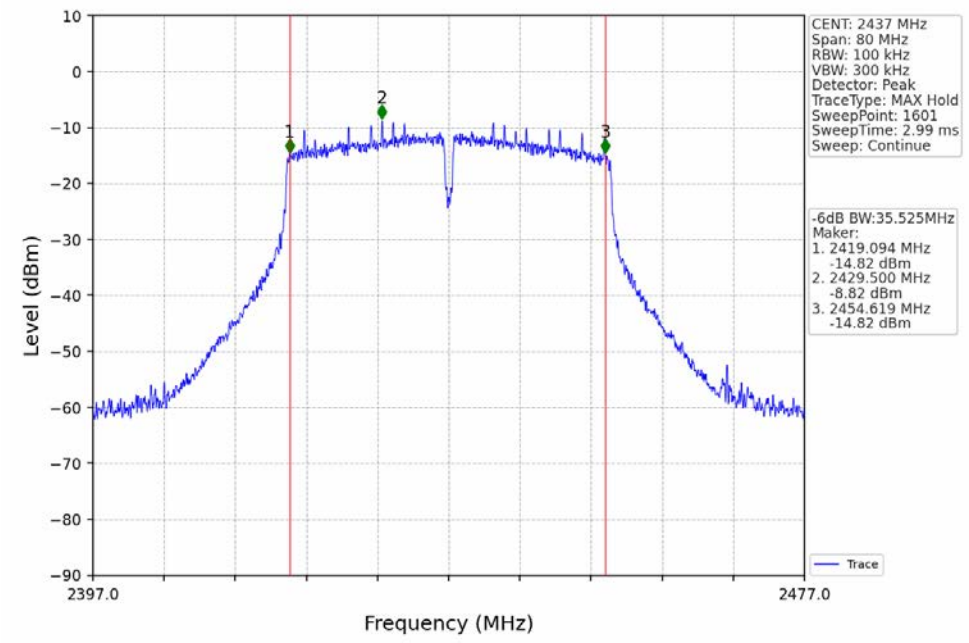
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



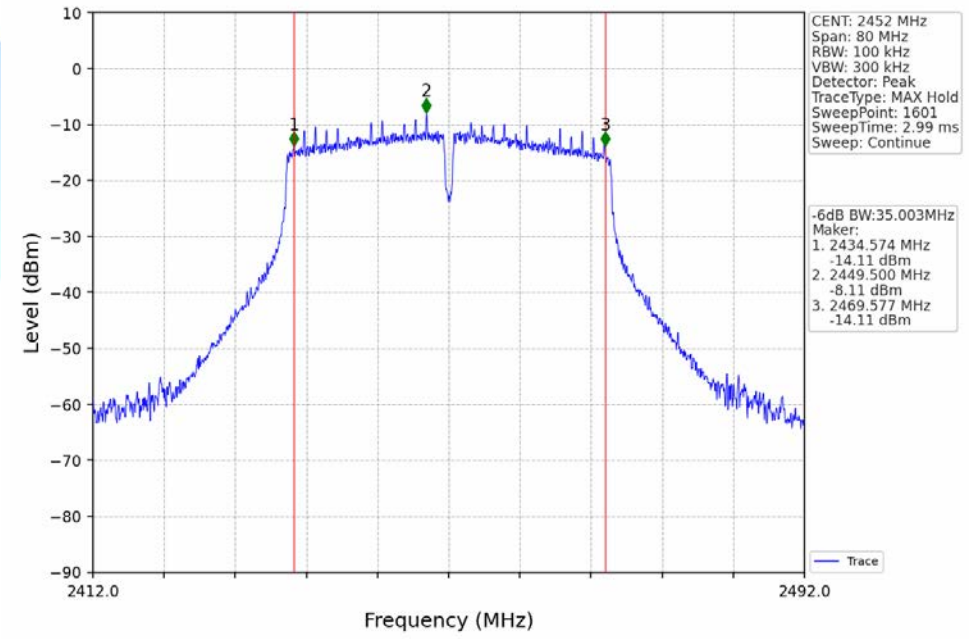
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



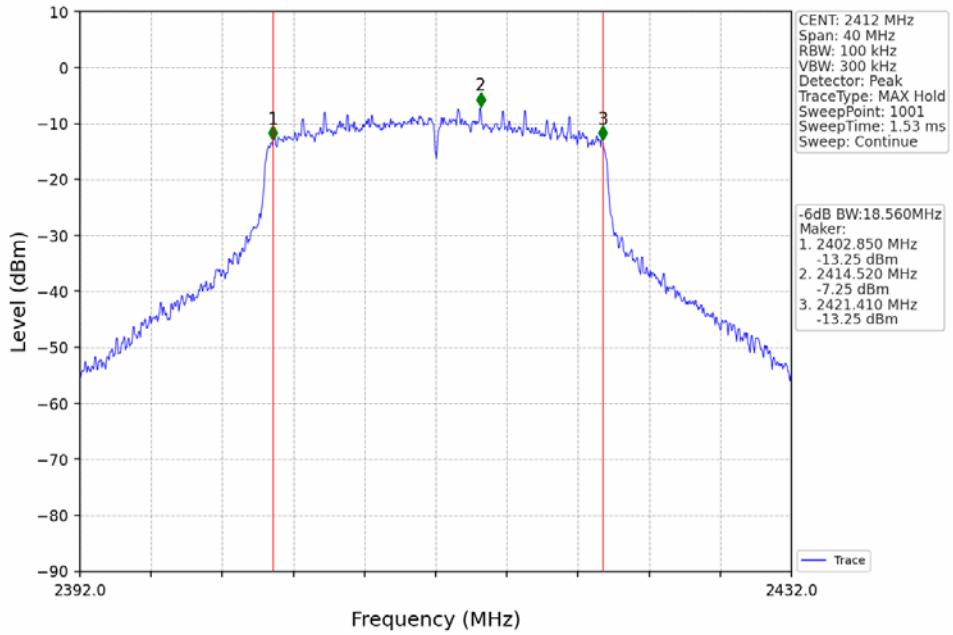
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



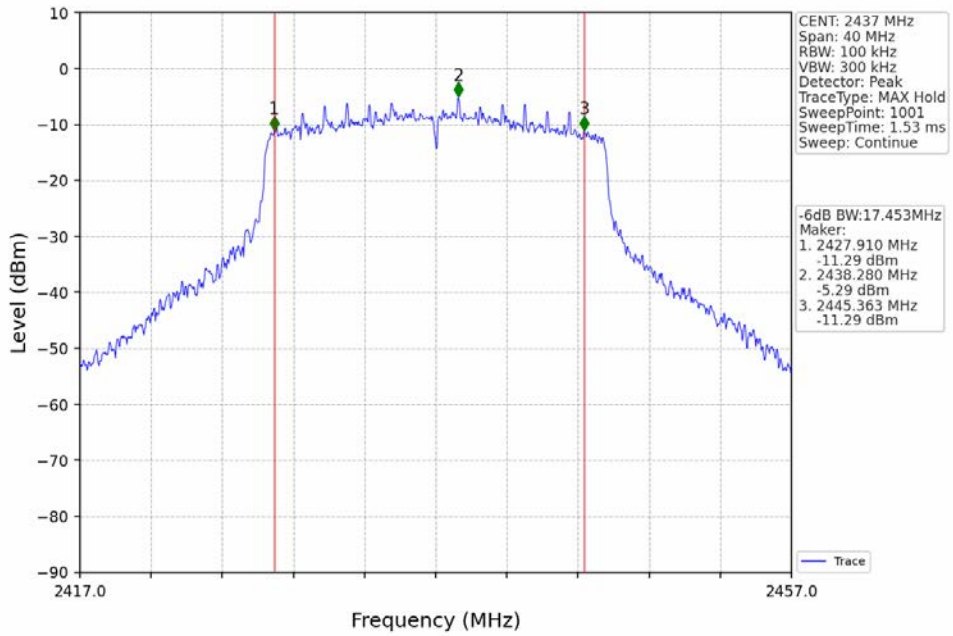
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



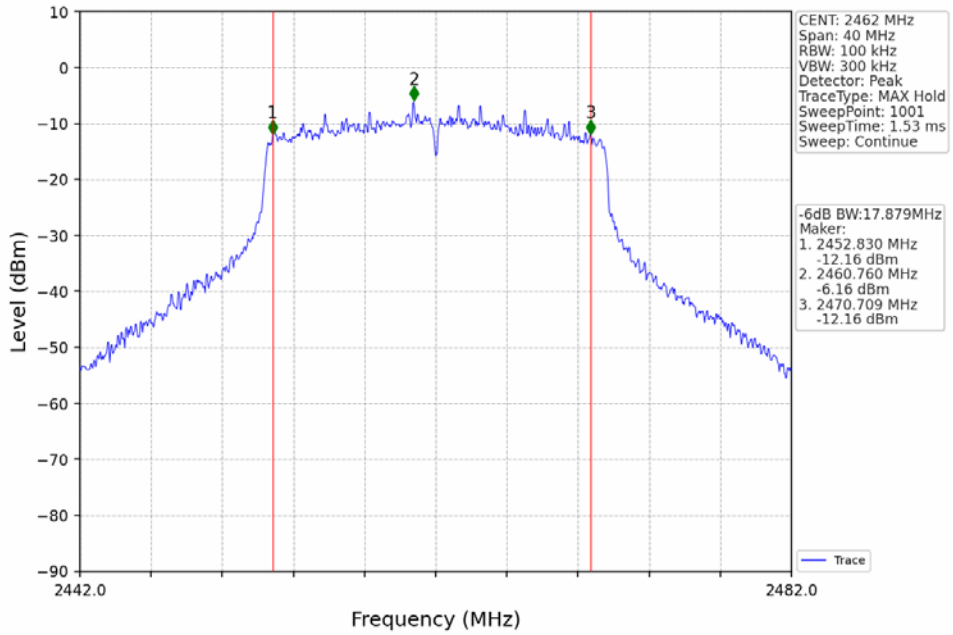
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



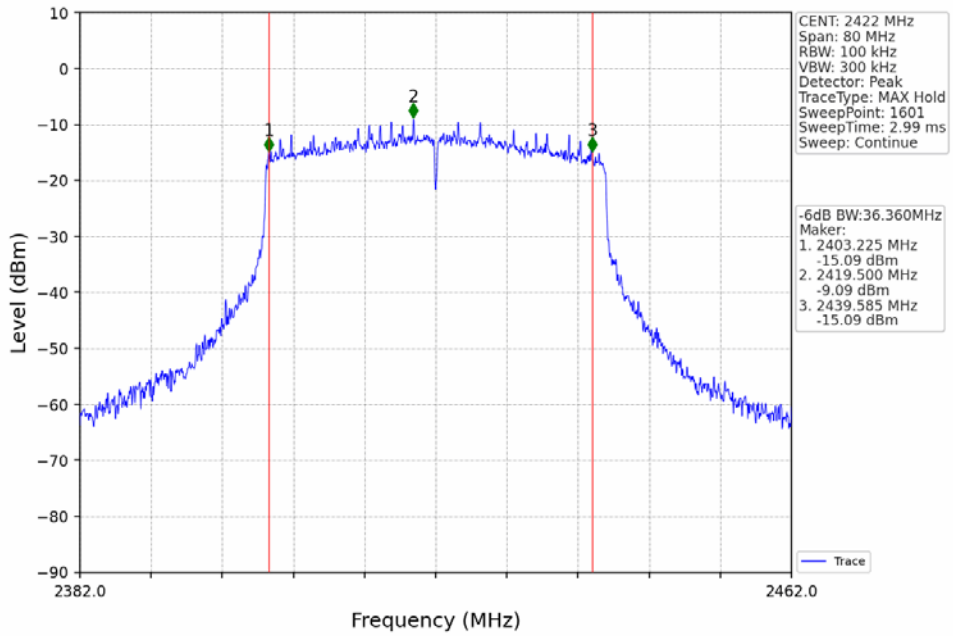
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



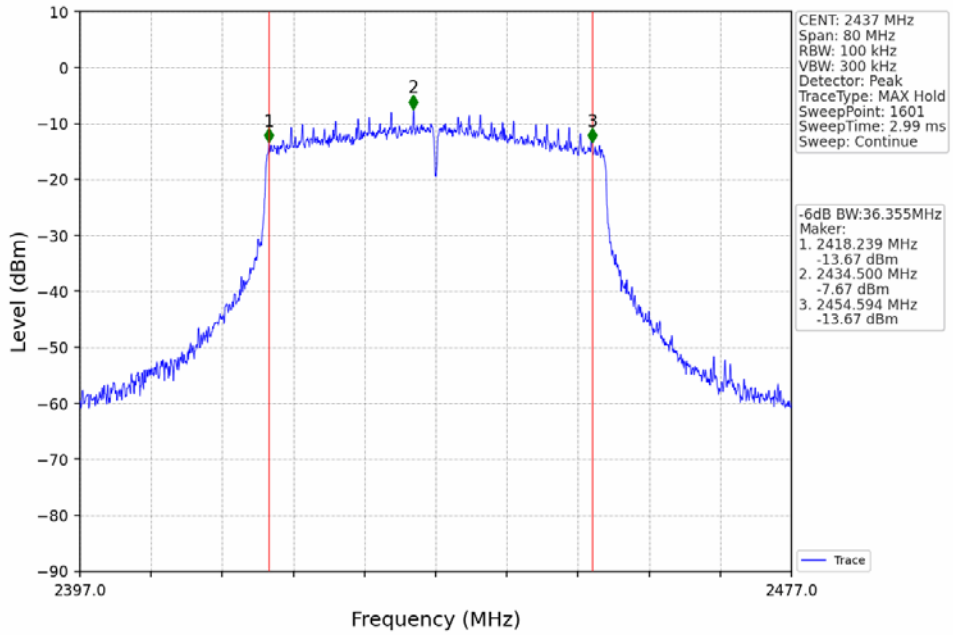
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



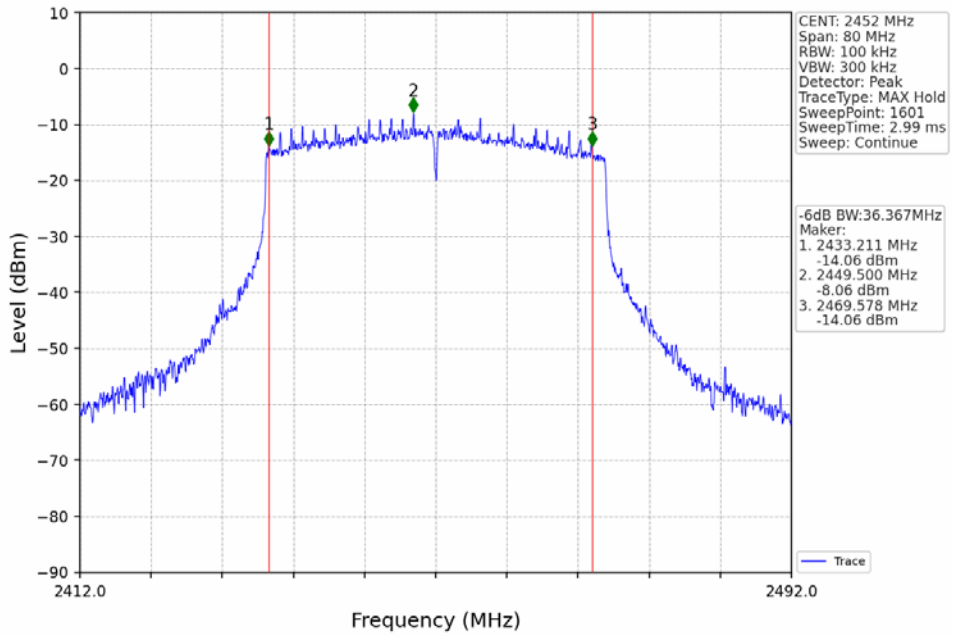
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



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	/	/	8.88	<=30	Pass
		2437	/	/	7.65	<=30	Pass
		2462	/	/	9.92	<=30	Pass
802.11g	SISO	2412	/	/	11.90	<=30	Pass
		2437	/	/	12.05	<=30	Pass
		2462	/	/	11.81	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	11.85	<=30	Pass
		2437	/	/	12.19	<=30	Pass
		2462	/	/	12.01	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	11.97	<=30	Pass
		2437	/	/	12.29	<=30	Pass
		2452	/	/	11.89	<=30	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	12.21	<=30	Pass
		2437	RU242	Left	12.21	<=30	Pass
		2462	RU242	Left	12.02	<=30	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	12.10	<=30	Pass
		2437	RU484	Left	12.35	<=30	Pass
		2452	RU484	Left	12.09	<=30	Pass
Note1: Antenna Gain: Ant1: 1.67dBi;							

4. Maximum Power Spectral Density

4.1 Test Result

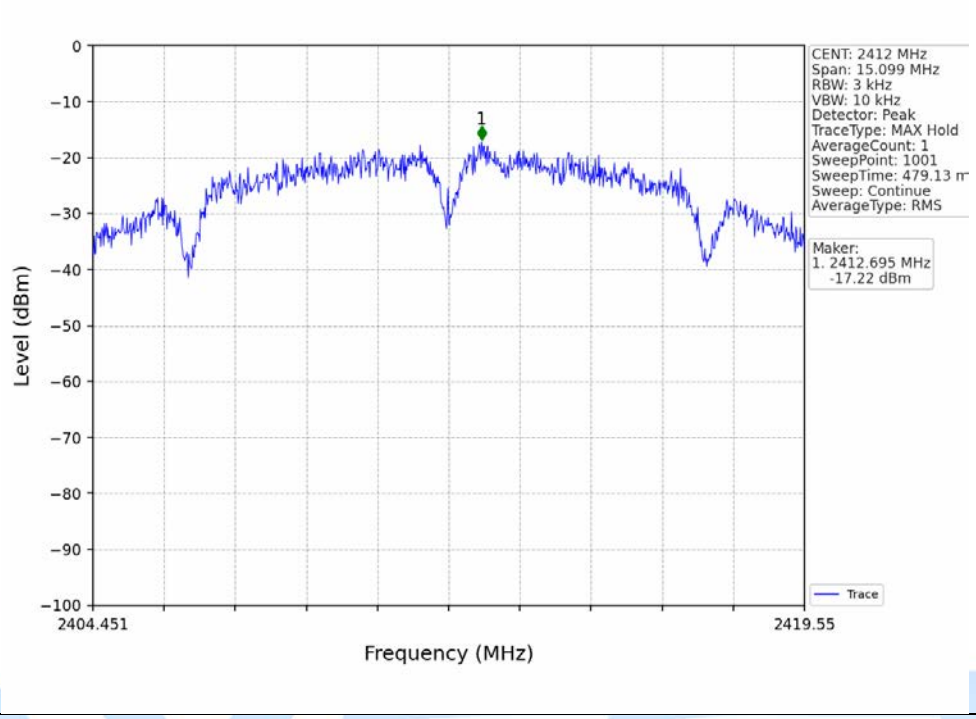
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-17.22	<=8	Pass
		2437	/	/	-18.52	<=8	Pass
		2462	/	/	-16.57	<=8	Pass
802.11g	SISO	2412	/	/	-20.85	<=8	Pass
		2437	/	/	-19.37	<=8	Pass
		2462	/	/	-21.32	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-21.28	<=8	Pass
		2437	/	/	-17.99	<=8	Pass
		2462	/	/	-21.64	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-23.97	<=8	Pass
		2437	/	/	-23.28	<=8	Pass
		2452	/	/	-23.28	<=8	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	-22.46	<=8	Pass
		2437	RU242	Left	-20.90	<=8	Pass
		2462	RU242	Left	-22.67	<=8	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	-23.48	<=8	Pass
		2437	RU484	Left	-23.99	<=8	Pass
		2452	RU484	Left	-24.12	<=8	Pass
Note1: Antenna Gain: Ant1: 1.67dBi;							

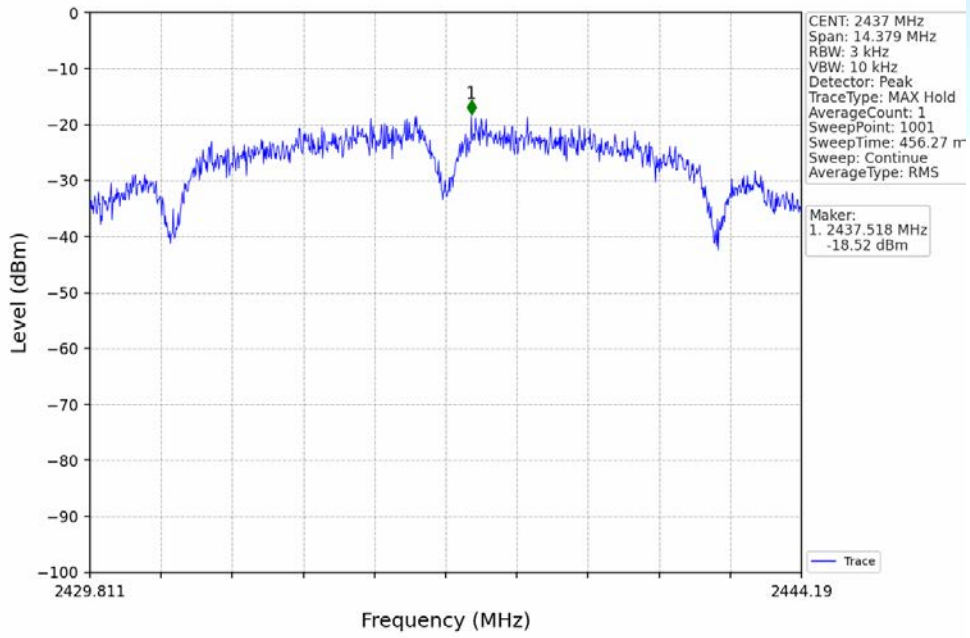
4.2 Test Graph

4.2.1 PSD

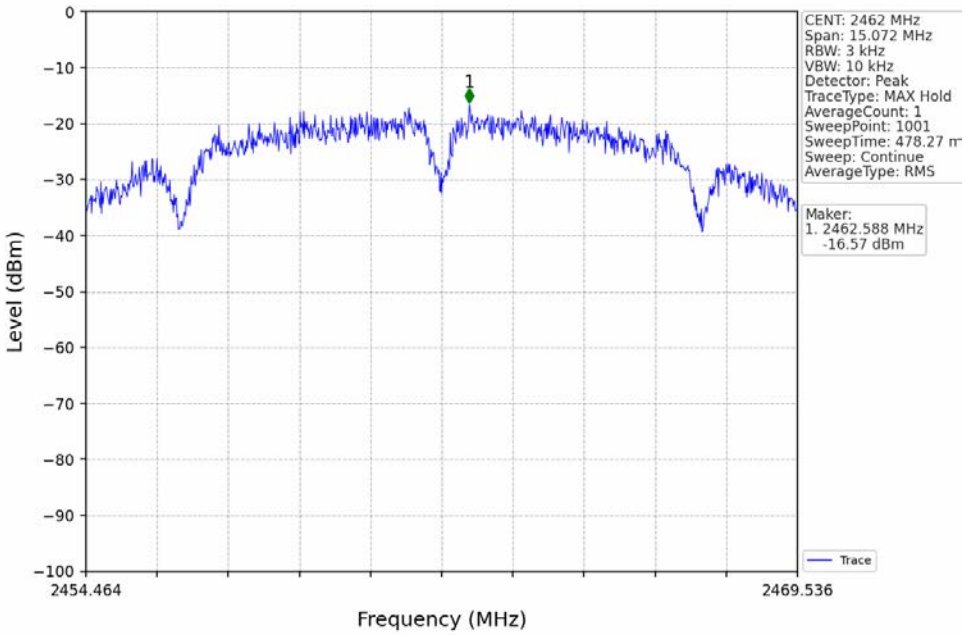
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



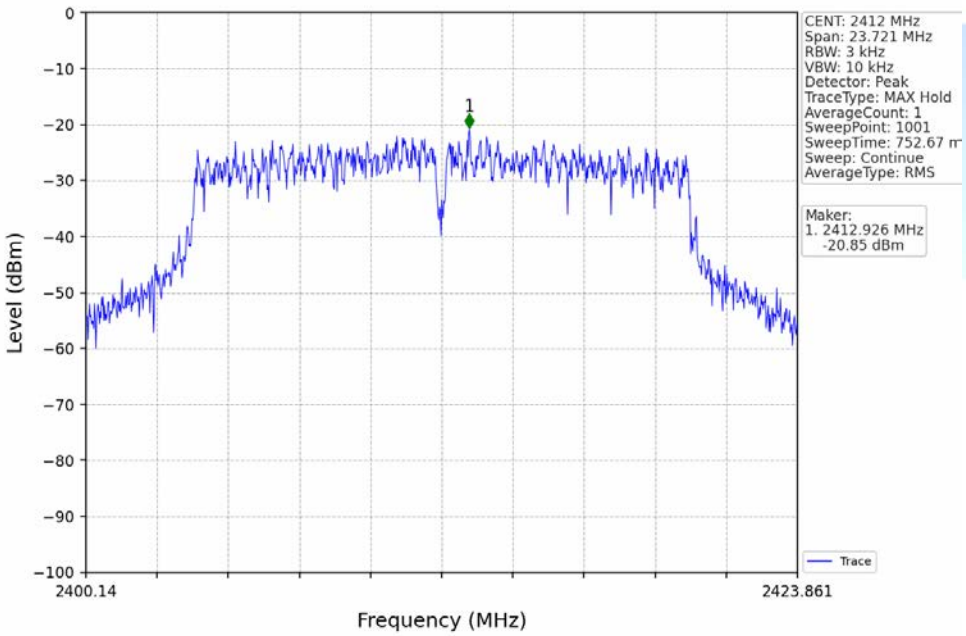
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



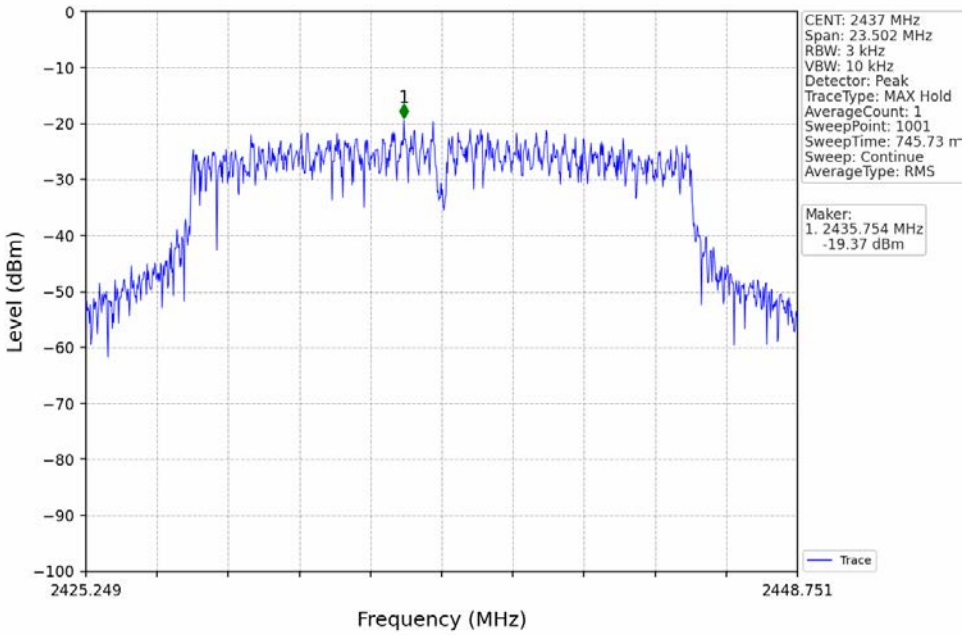
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



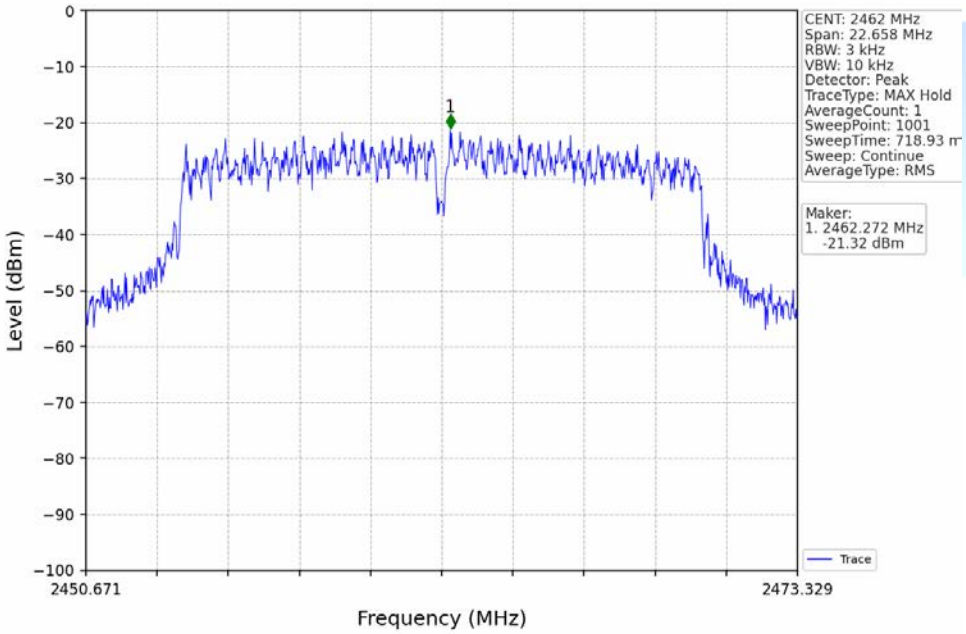
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



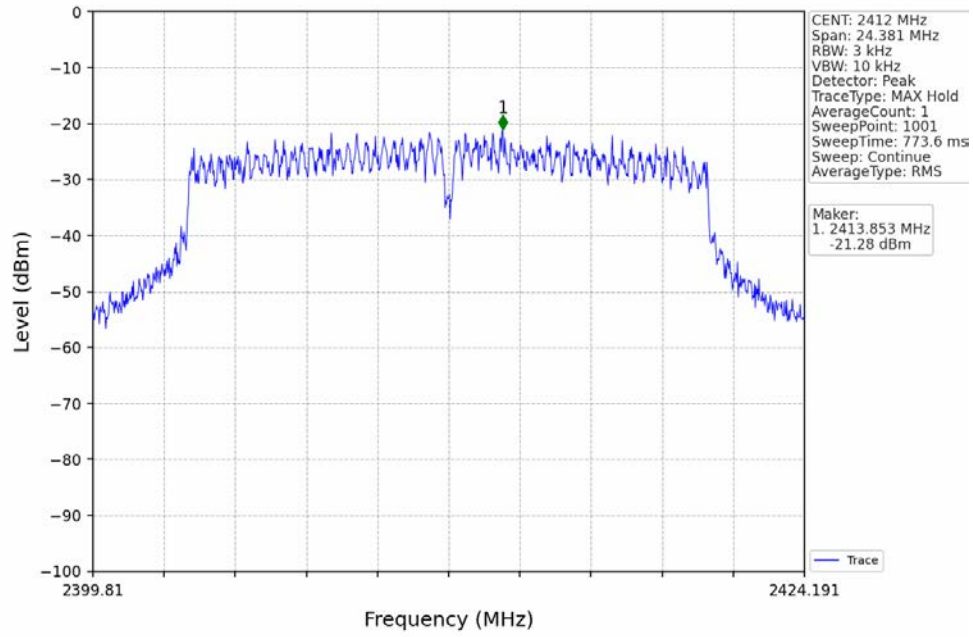
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



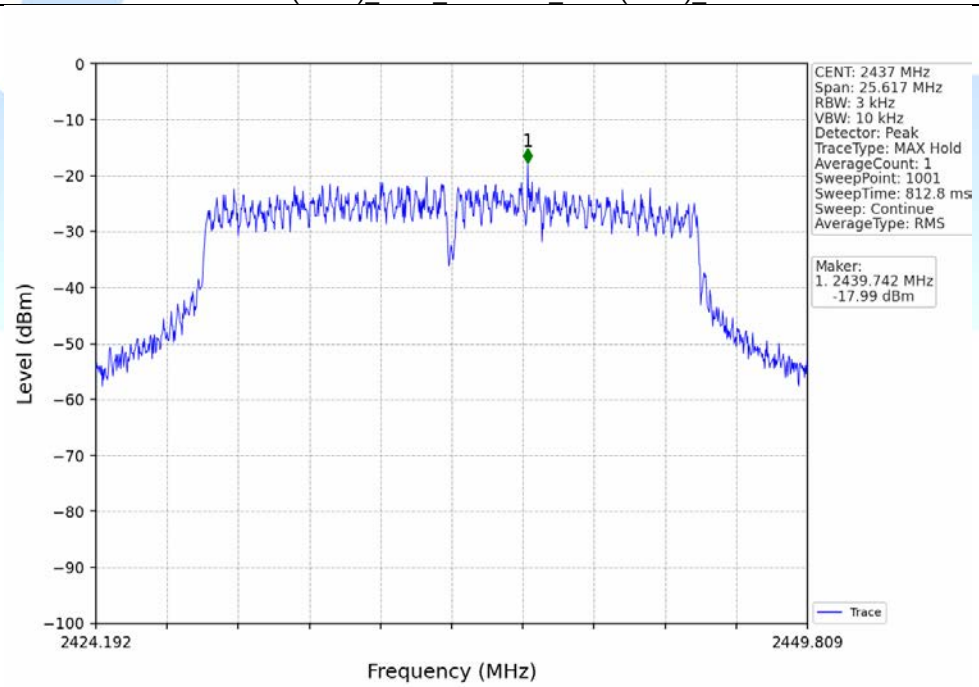
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



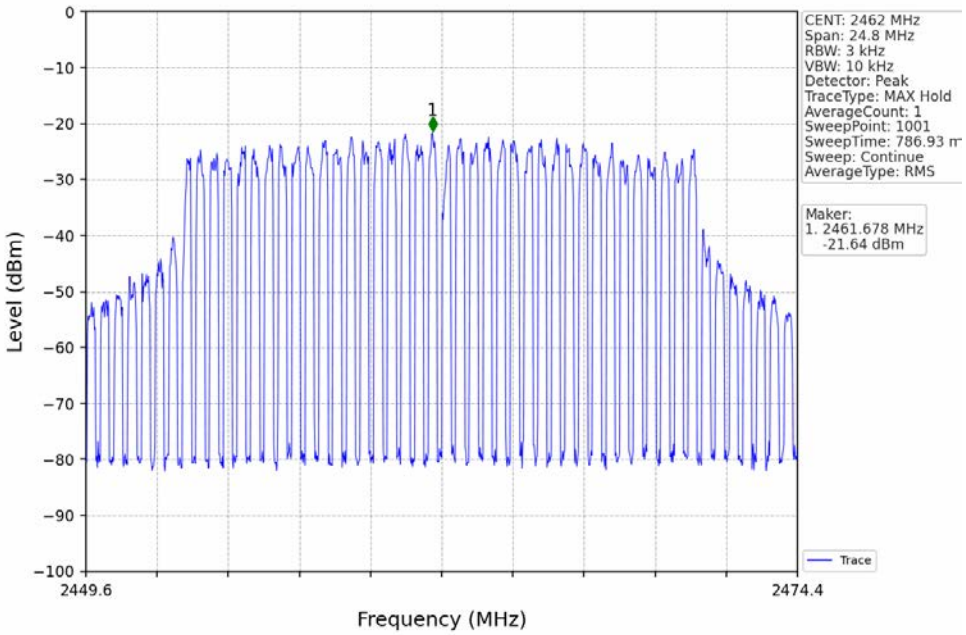
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



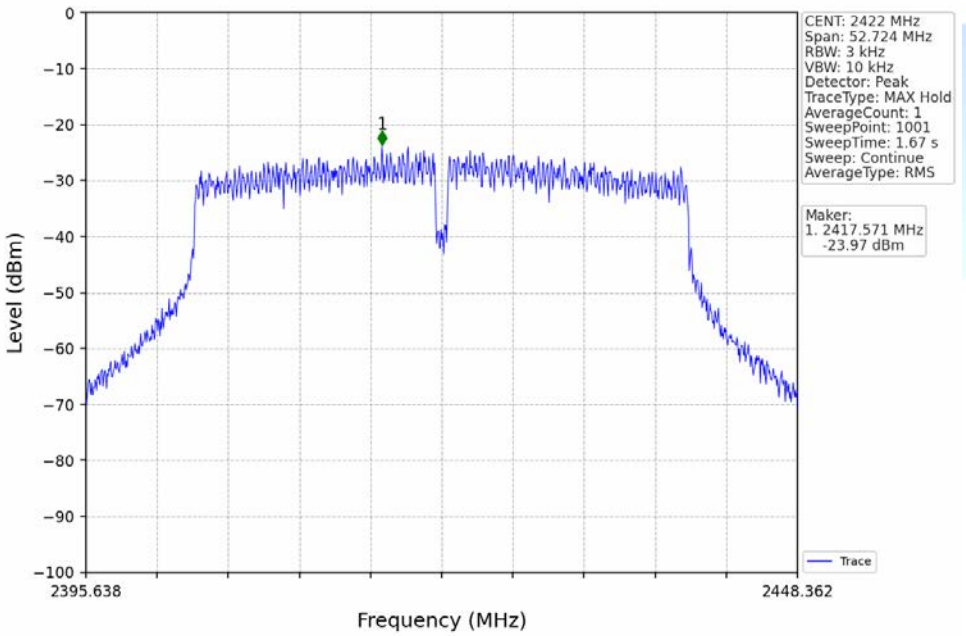
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



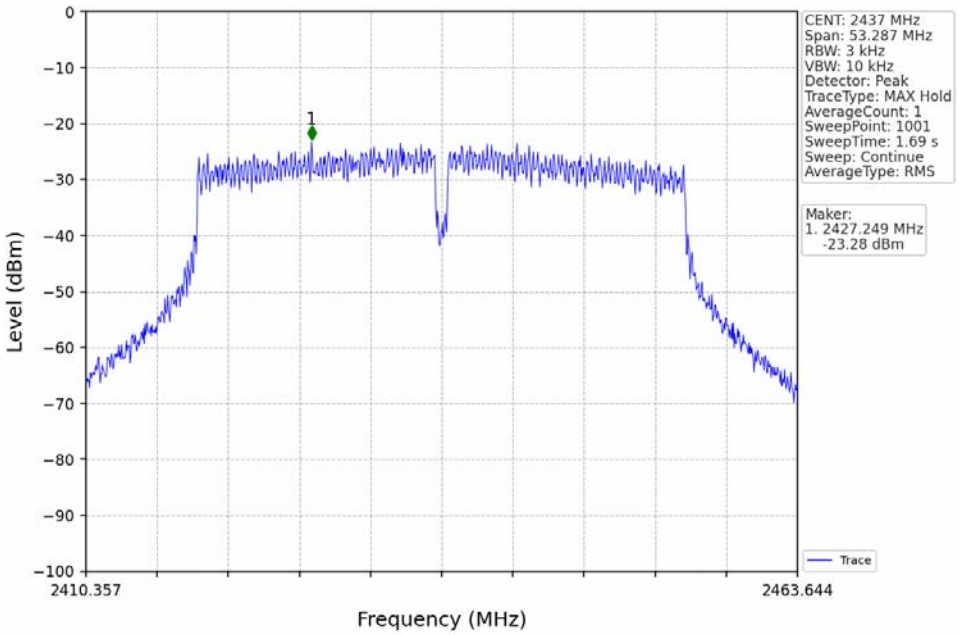
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



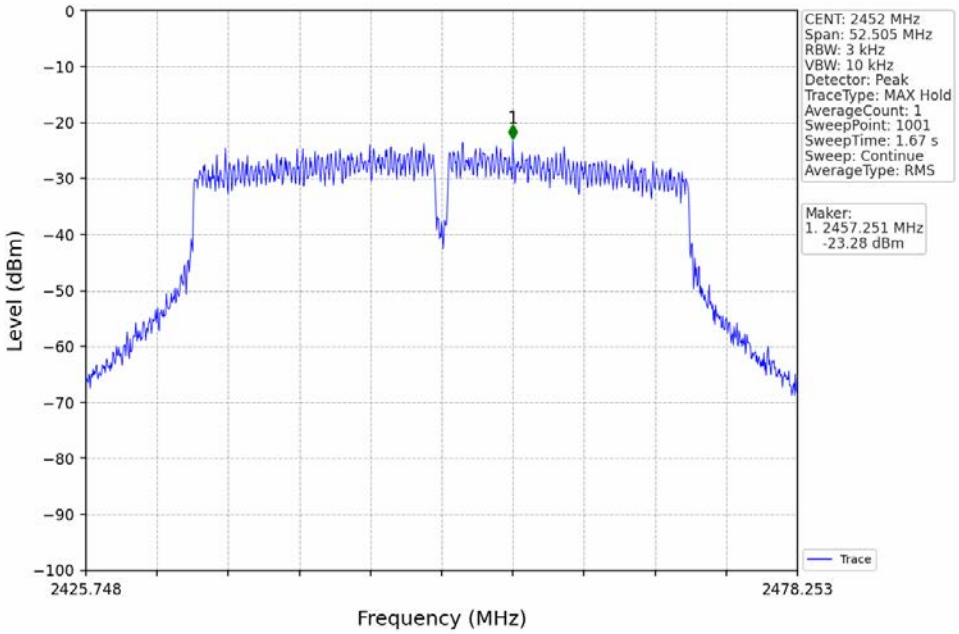
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



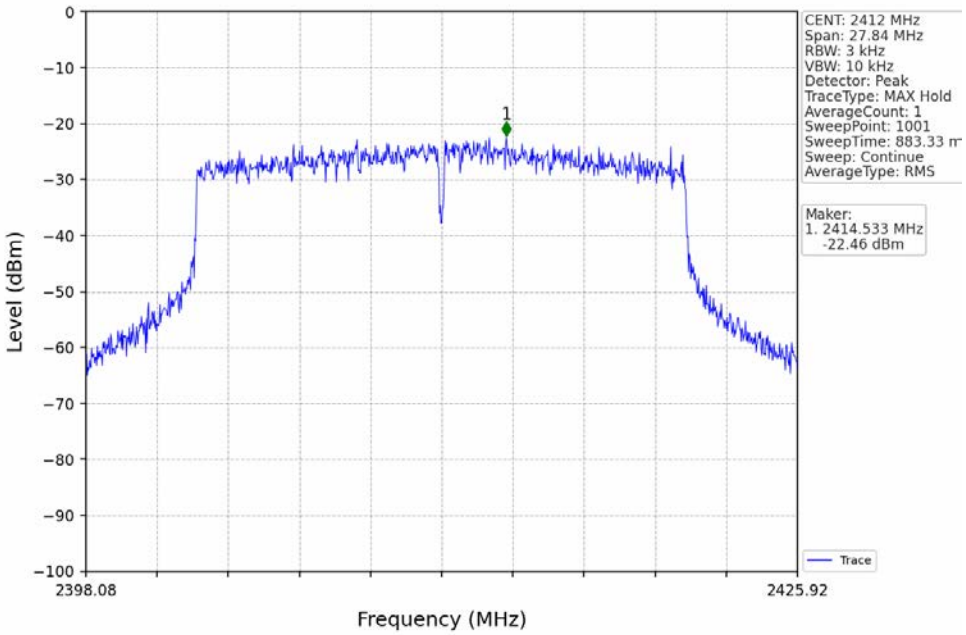
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



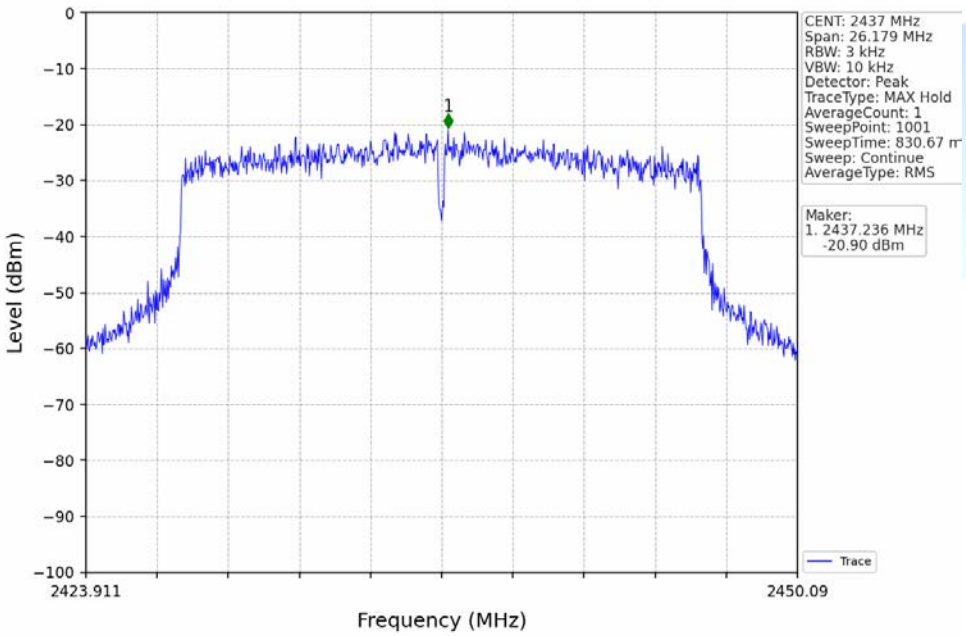
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



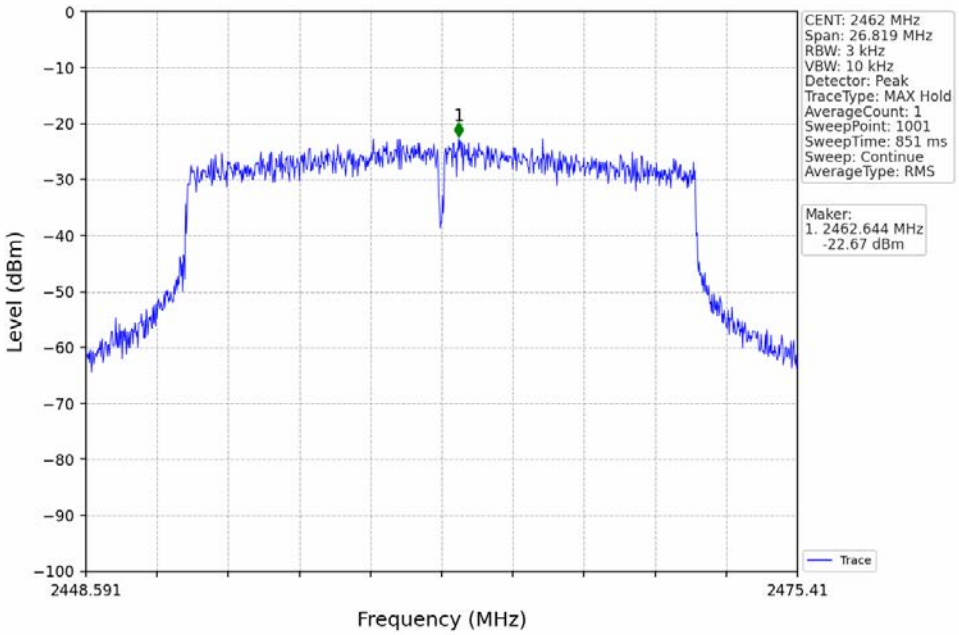
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



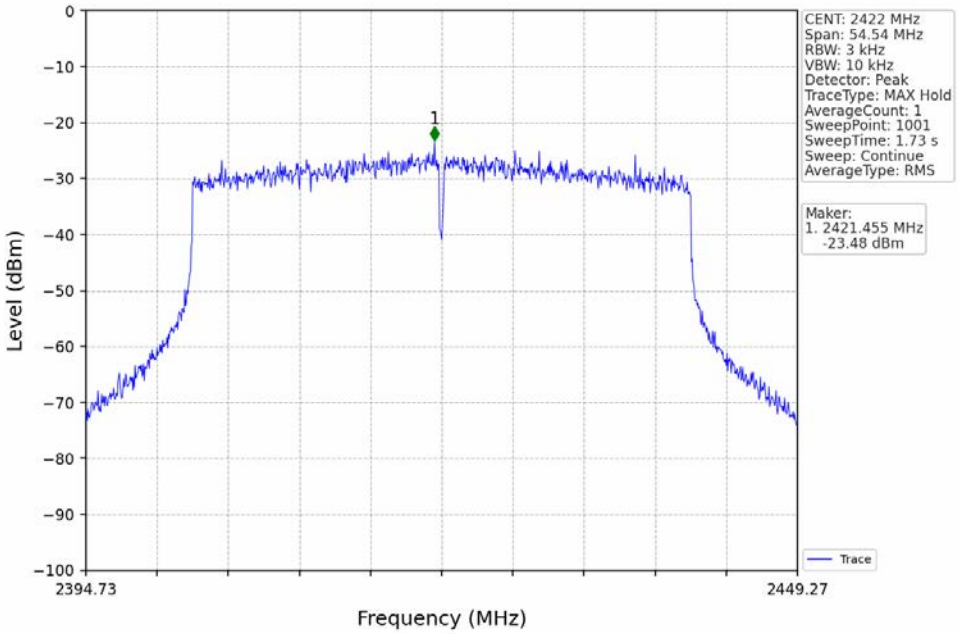
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



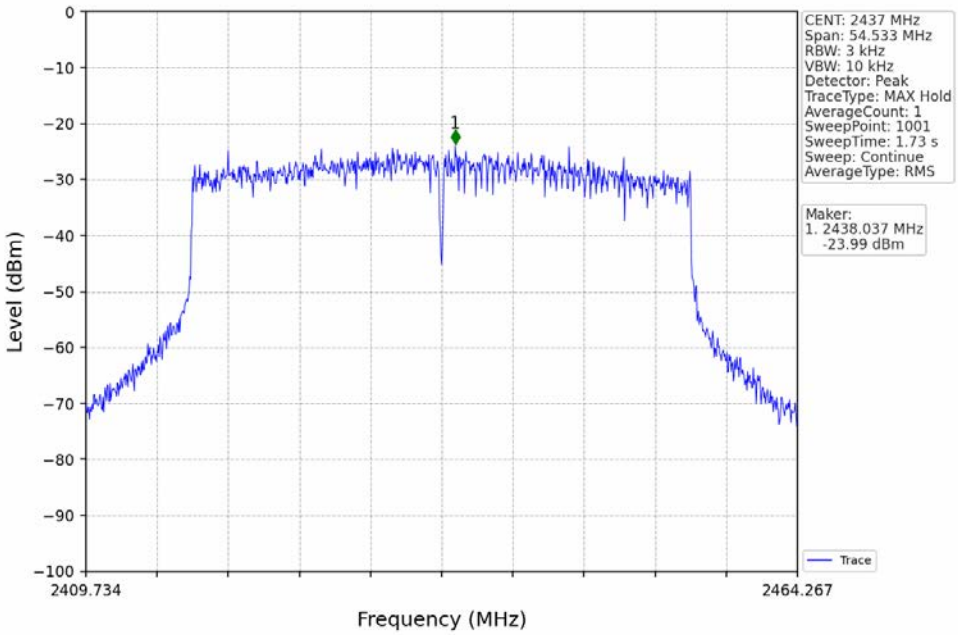
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



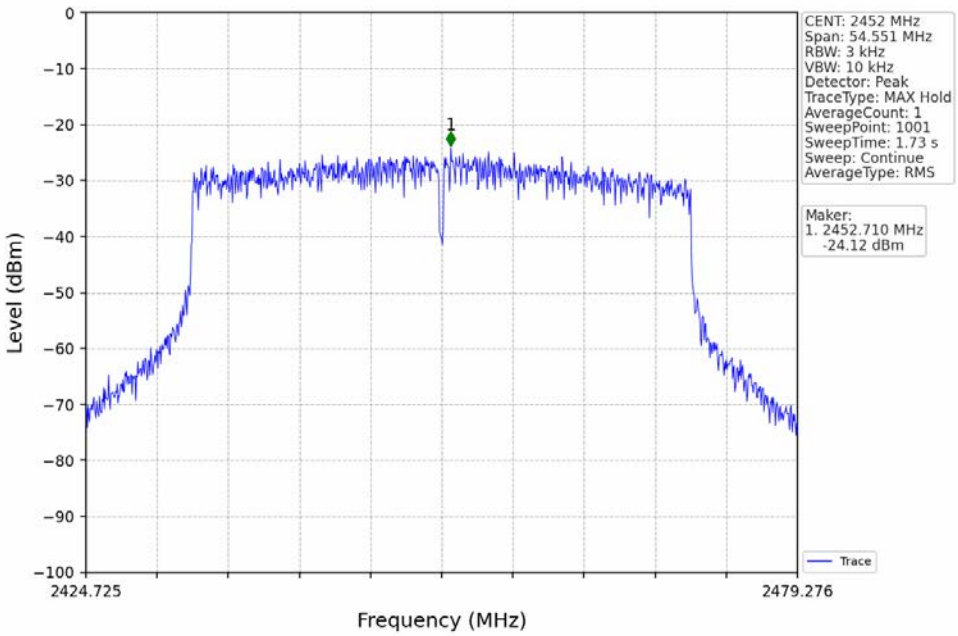
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	-2.32
		2437	/	/	1	-3.42
		2462	/	/	1	-1.32
802.11g	SISO	2412	/	/	1	-7.96
		2437	/	/	1	-6.52
		2462	/	/	1	-6.71
802.11n (HT20)	SISO	2412	/	/	1	-6.40
		2437	/	/	1	-5.67
		2462	/	/	1	-6.19
802.11n (HT40)	SISO	2422	/	/	1	-9.19
		2437	/	/	1	-8.25
		2452	/	/	1	-9.56
802.11ax (HEW20)	SISO	2412	RU242	Left	1	-7.37
		2437	RU242	Left	1	-5.24
		2462	RU242	Left	1	-6.73
802.11ax (HEW40)	SISO	2422	RU484	Left	1	-11.54
		2437	RU484	Left	1	-8.80
		2452	RU484	Left	1	-9.80
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						

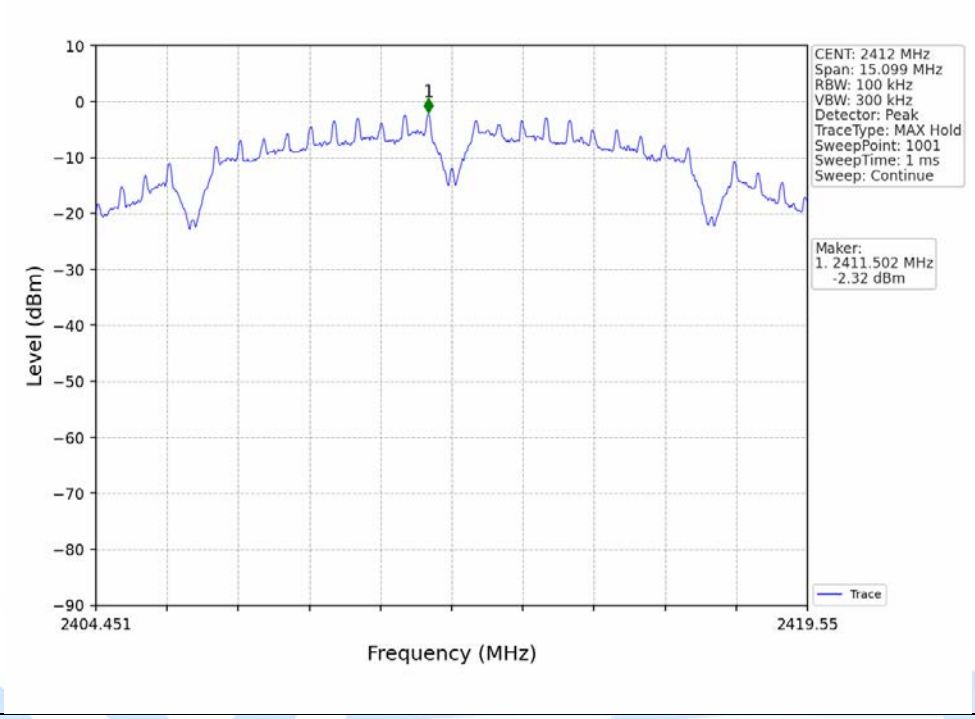
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	-2.32	-22.32	Pass
		2437	/	/	1	-3.42	-23.42	Pass
		2462	/	/	1	-1.32	-21.32	Pass
802.11g	SISO	2412	/	/	1	-7.96	-27.96	Pass
		2437	/	/	1	-6.52	-26.52	Pass
		2462	/	/	1	-6.71	-26.71	Pass
802.11n (HT20)	SISO	2412	/	/	1	-6.40	-26.40	Pass
		2437	/	/	1	-5.67	-25.67	Pass
		2462	/	/	1	-6.19	-26.19	Pass
802.11n (HT40)	SISO	2422	/	/	1	-9.19	-29.19	Pass
		2437	/	/	1	-8.25	-28.25	Pass
		2452	/	/	1	-9.56	-29.56	Pass
802.11ax (HEW20)	SISO	2412	RU242	Left	1	-7.37	-27.37	Pass
		2437	RU242	Left	1	-5.24	-25.24	Pass
		2462	RU242	Left	1	-6.73	-26.73	Pass
802.11ax (HEW40)	SISO	2422	RU484	Left	1	-11.54	-31.54	Pass
		2437	RU484	Left	1	-8.80	-28.80	Pass
		2452	RU484	Left	1	-9.80	-29.80	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.								

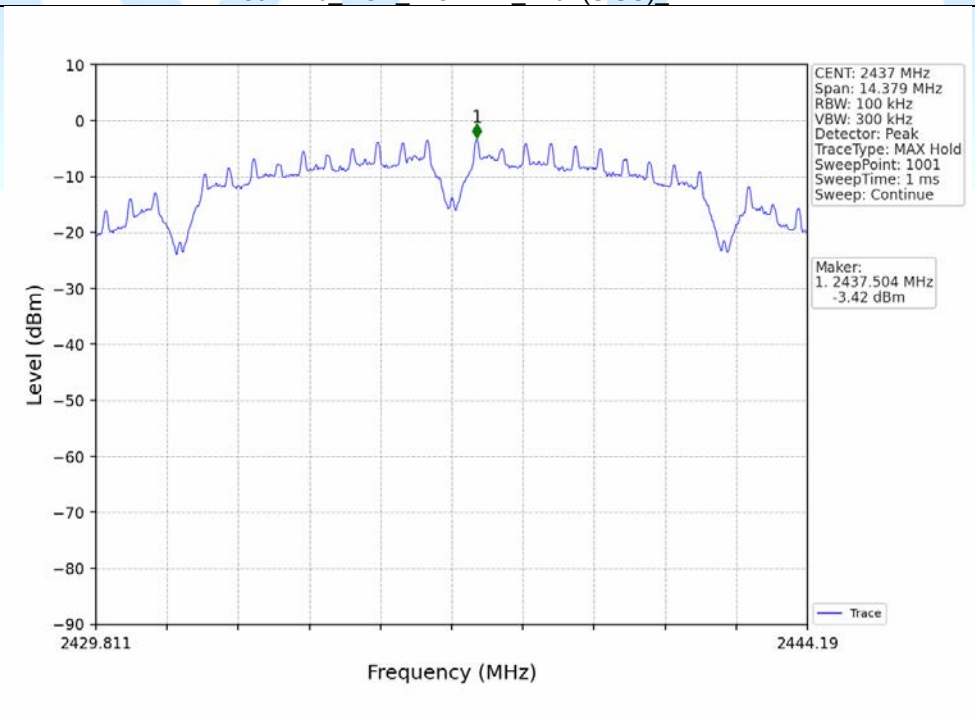
5.2 Test Graph

5.2.1 Ref

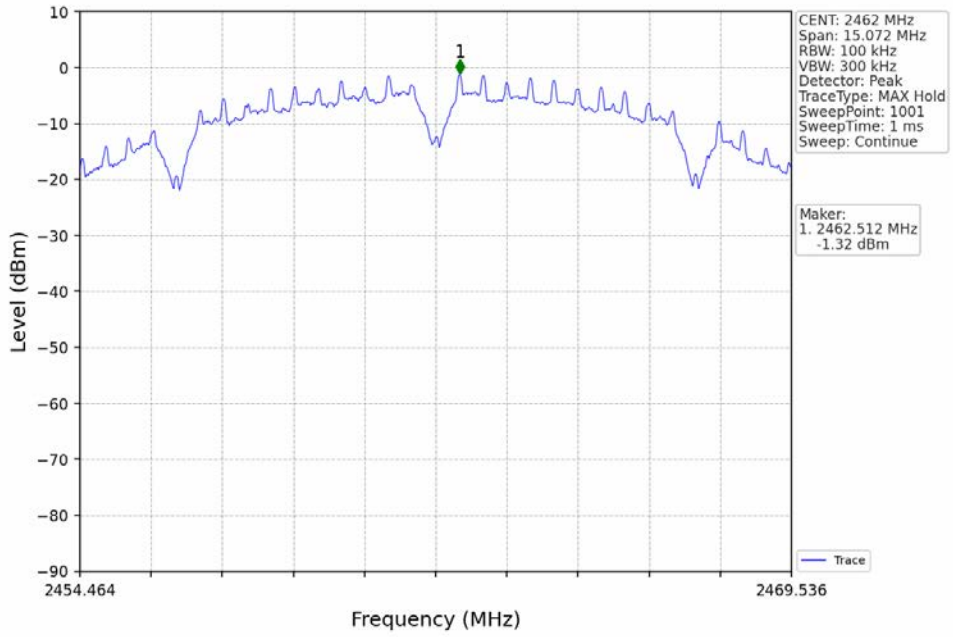
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



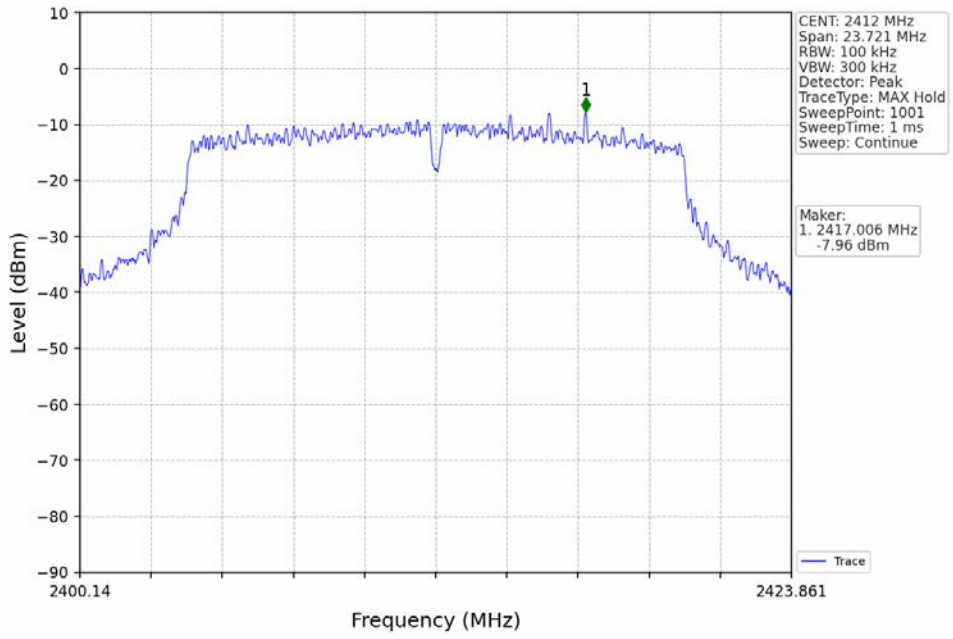
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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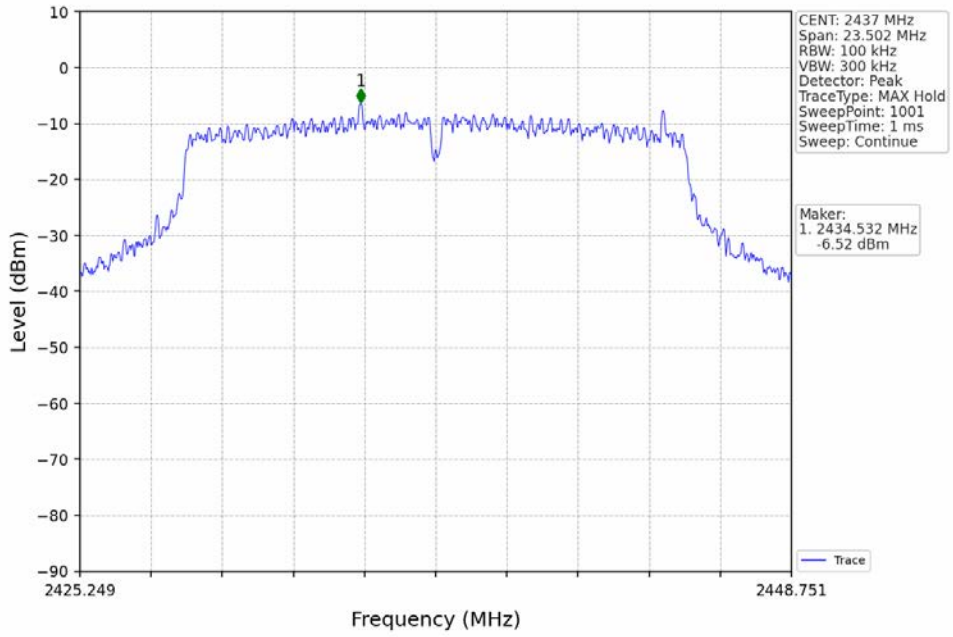
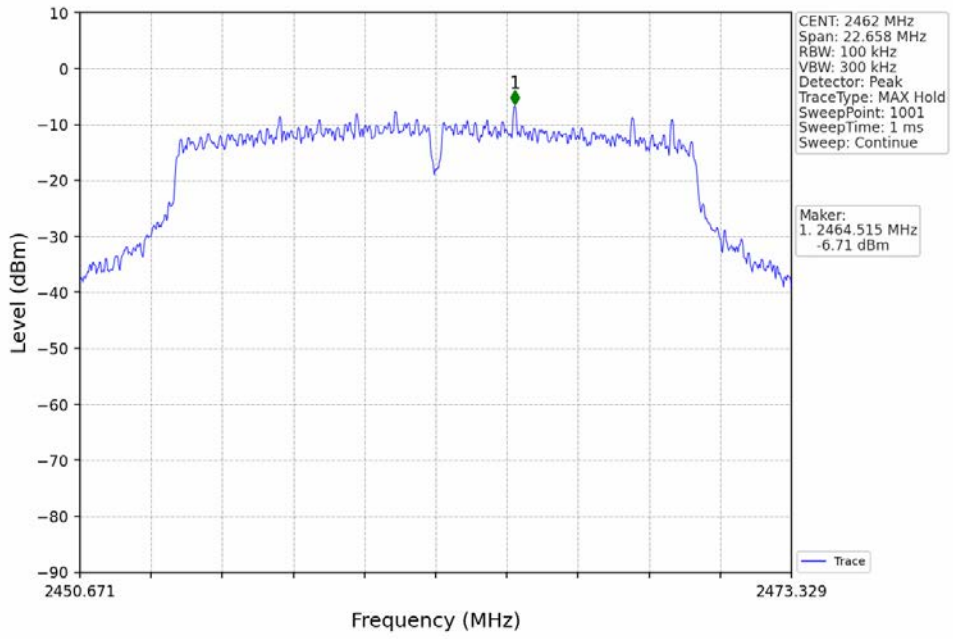
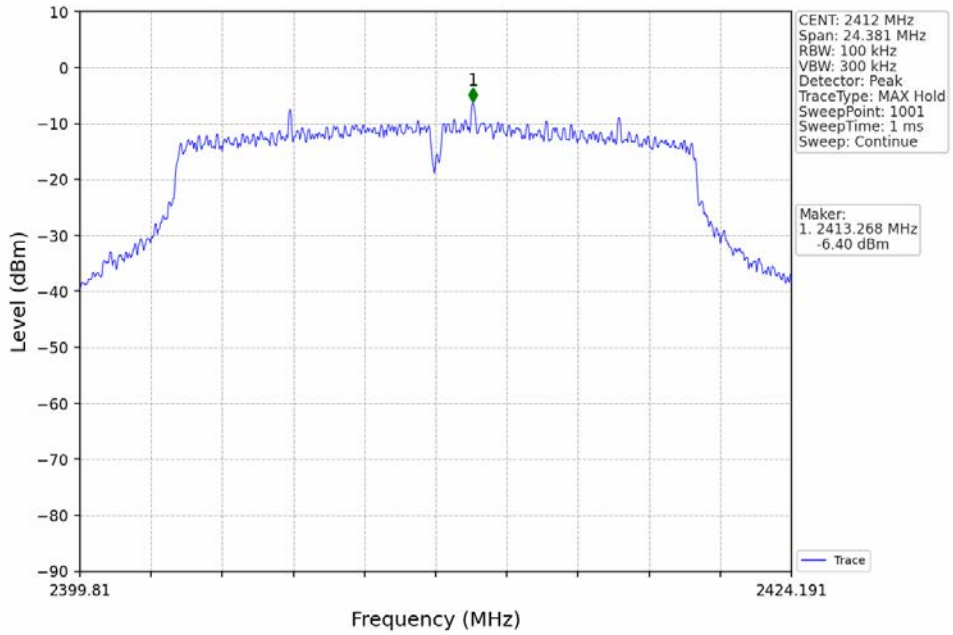


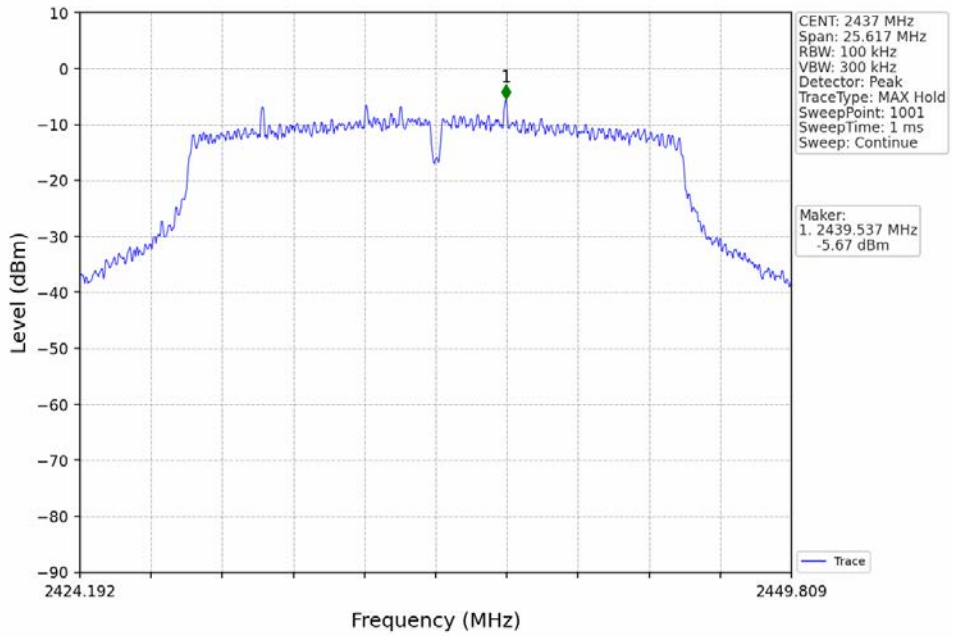
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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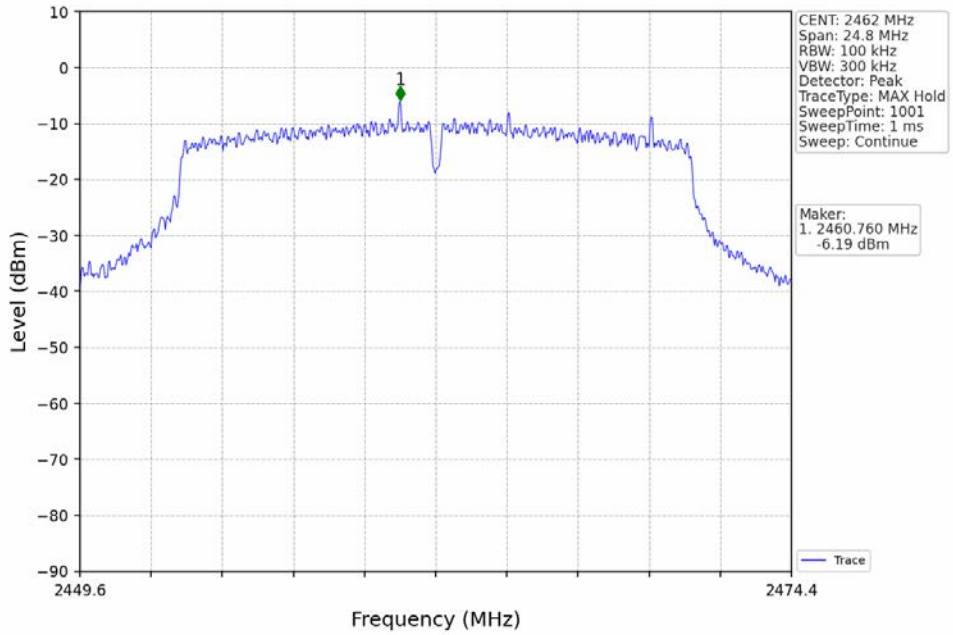
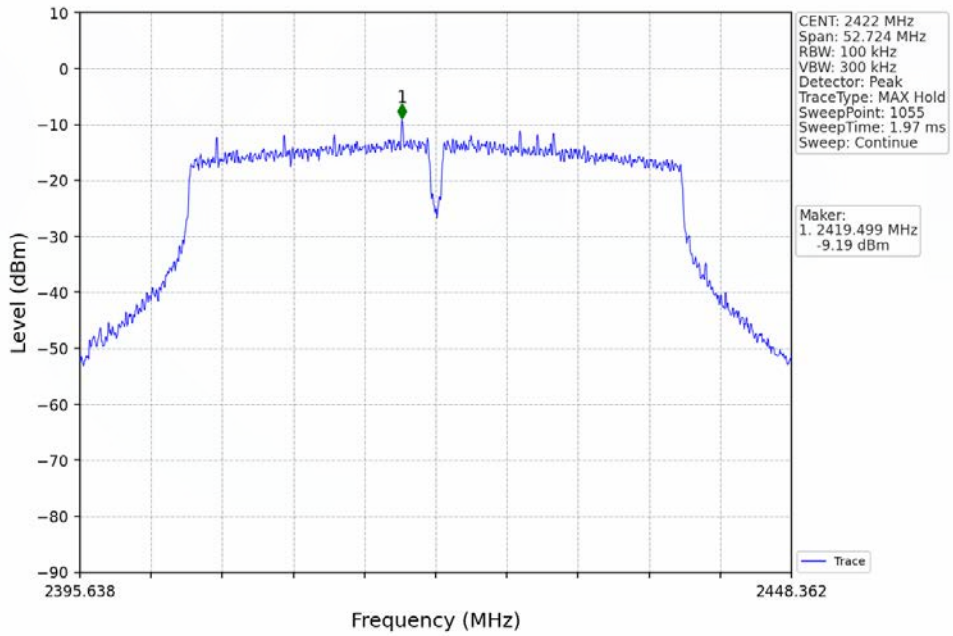
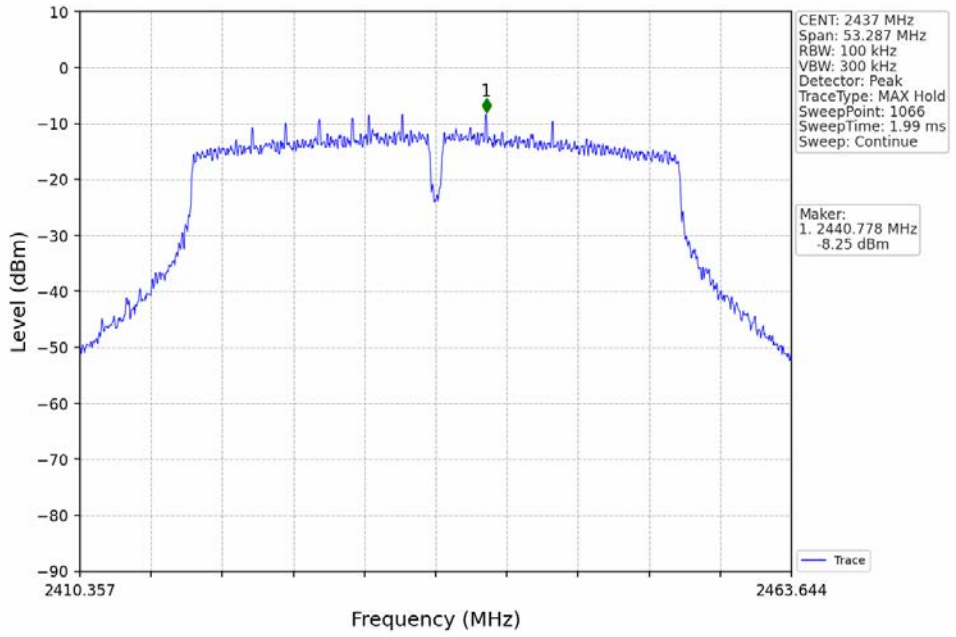


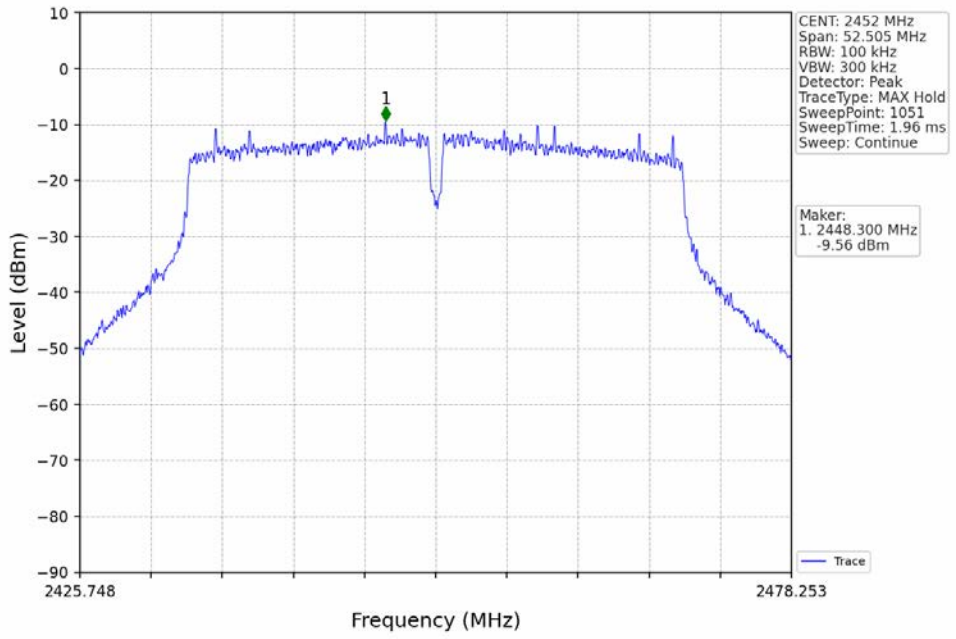
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



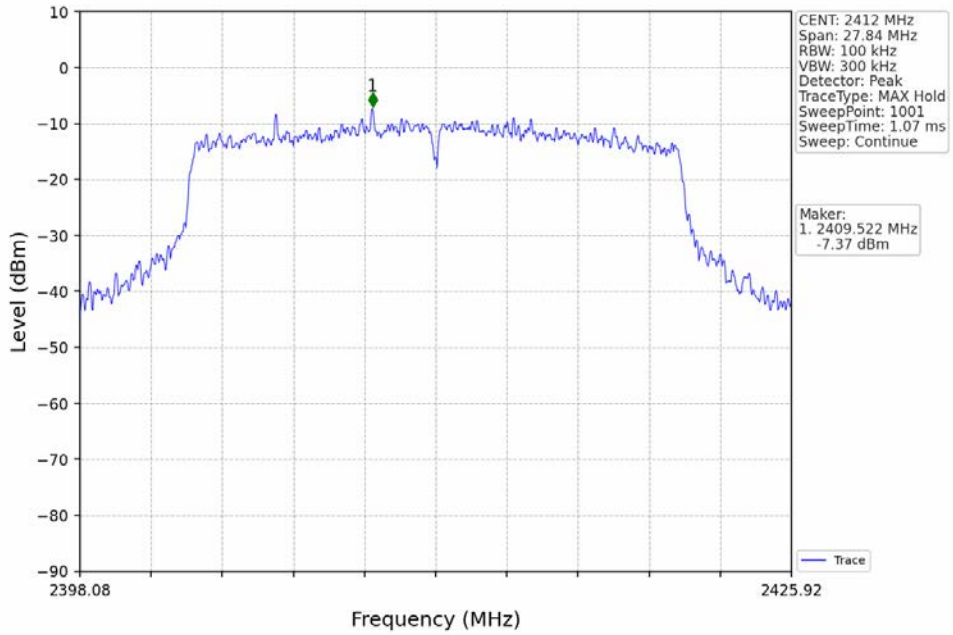
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



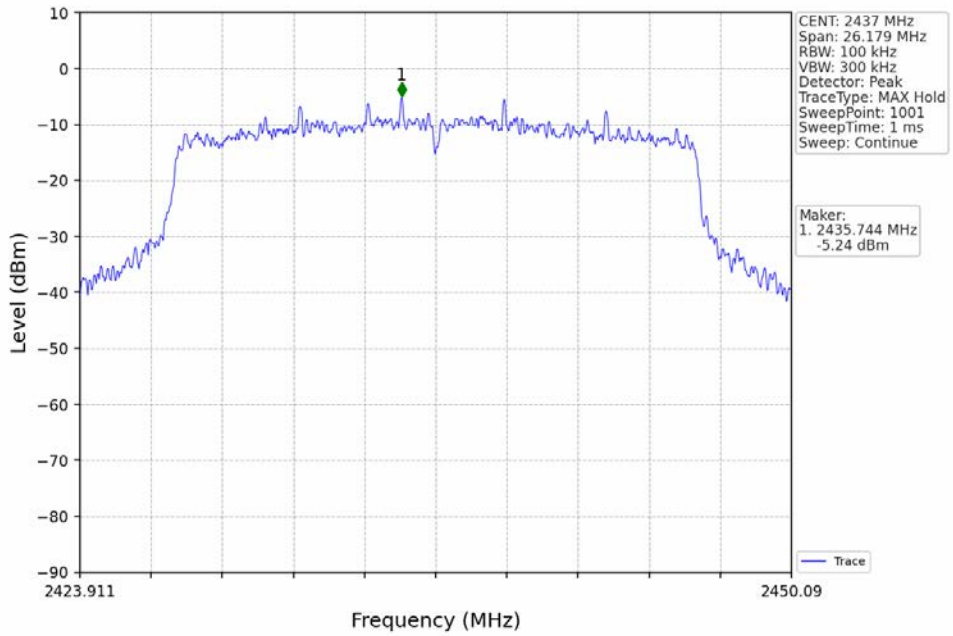
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



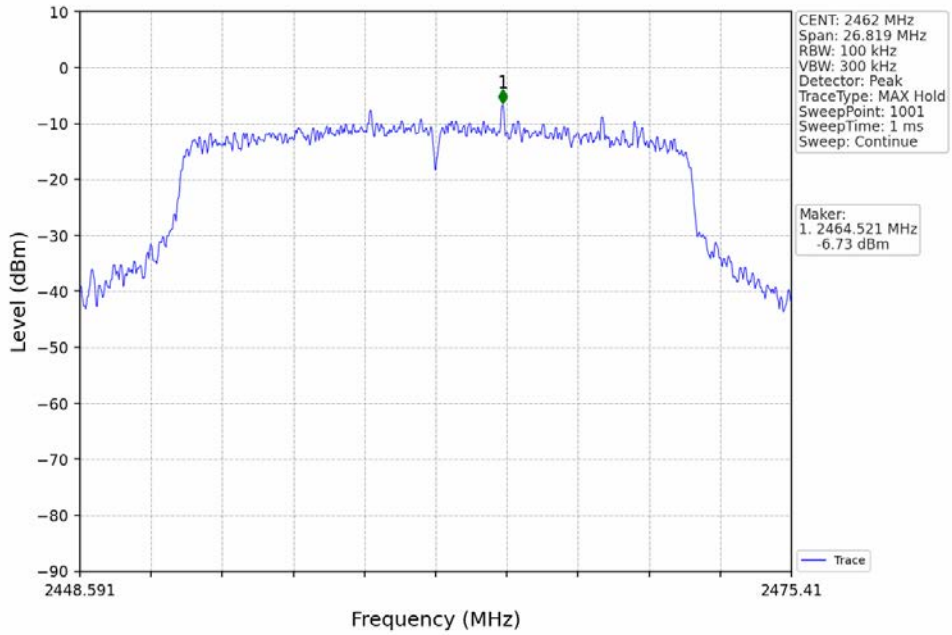
802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (SISO)_NTNV



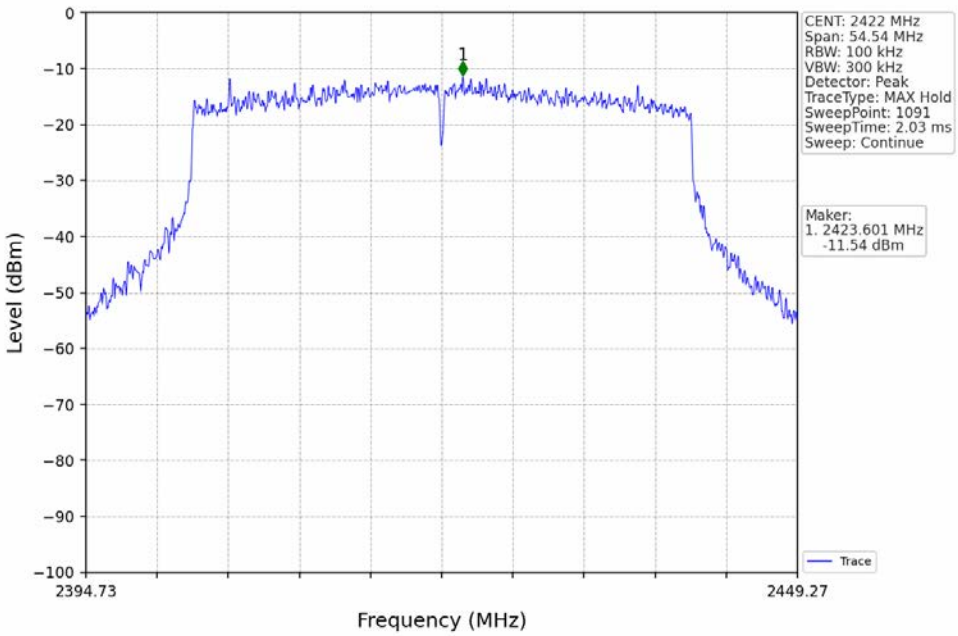
802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (SISO)_NTNV



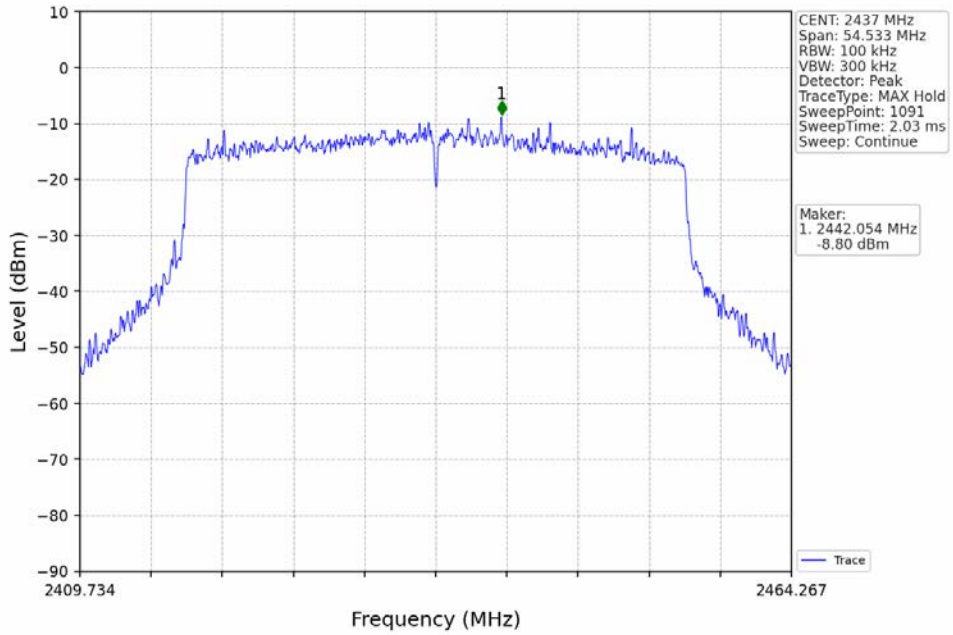
802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (SISO)_NTNV



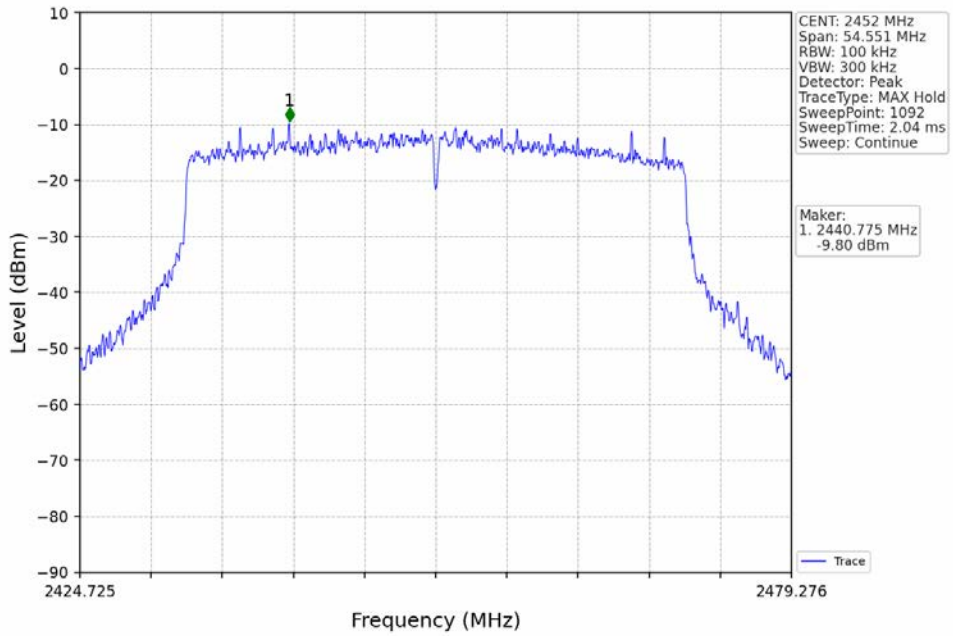
802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (SISO)_NTNV

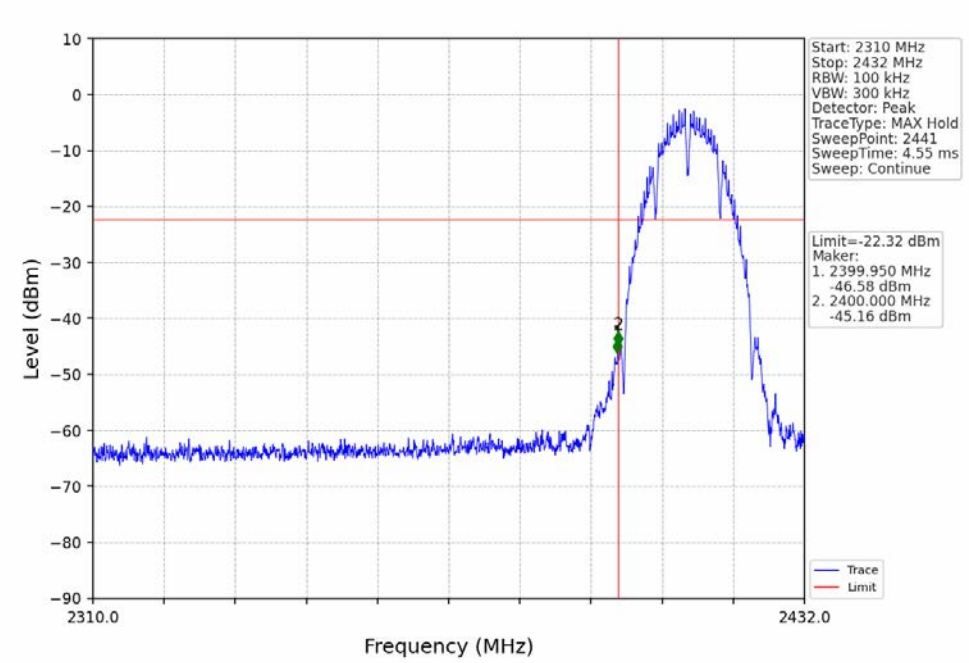


802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (SISO)_NTNV

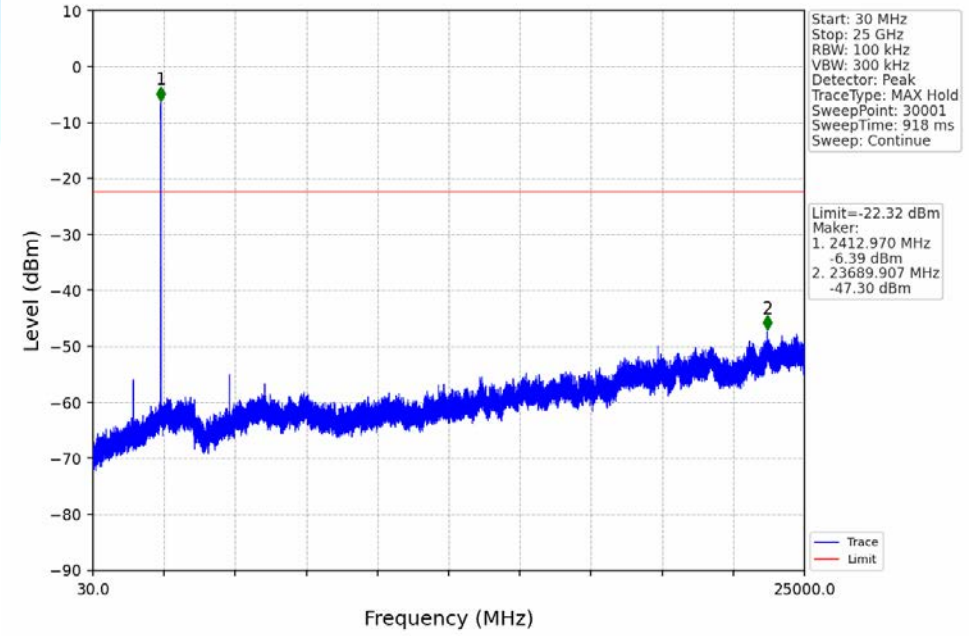


5.2.2 CSE

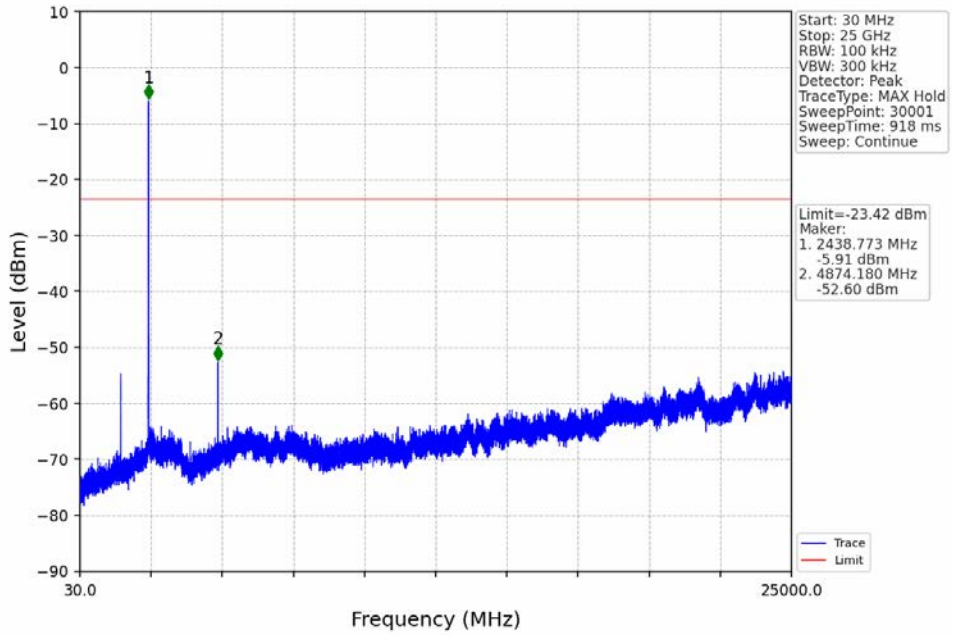
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



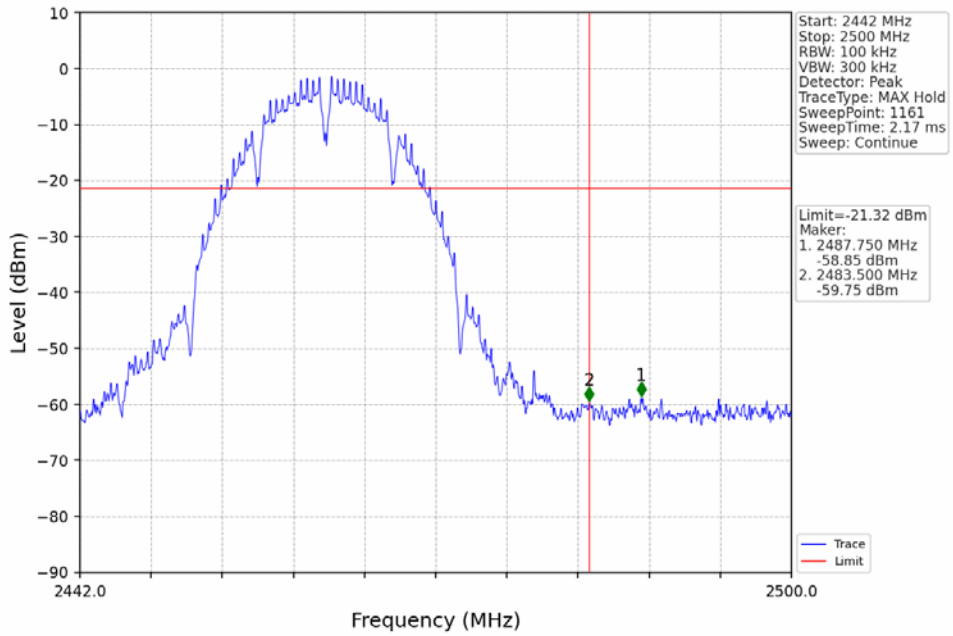
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



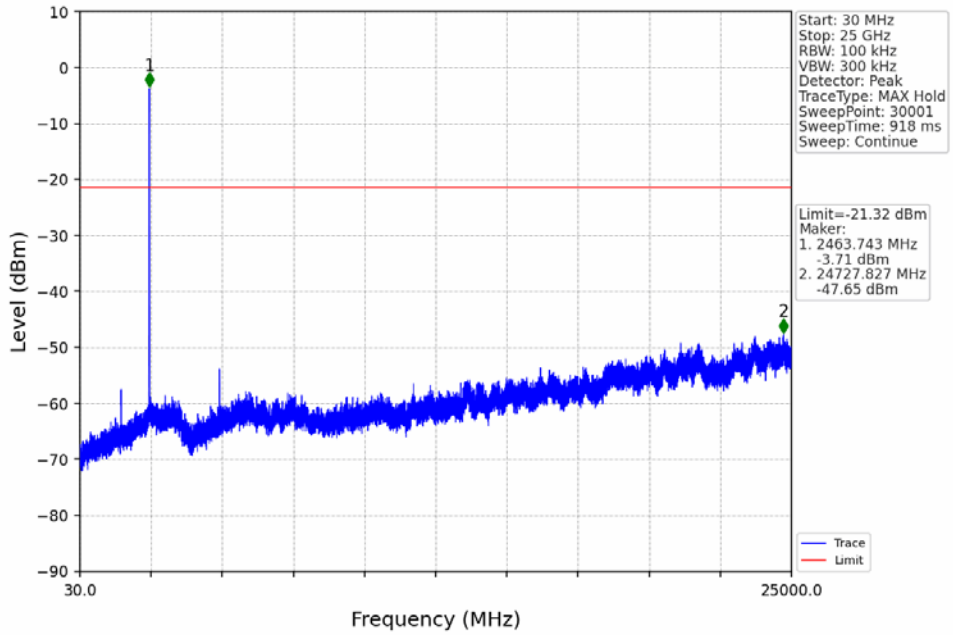
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



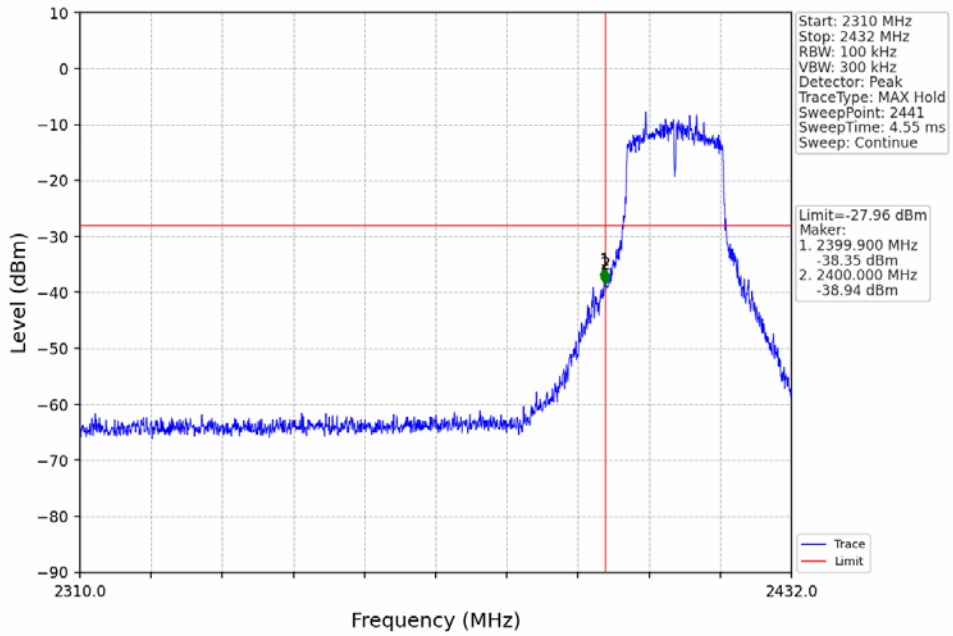
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



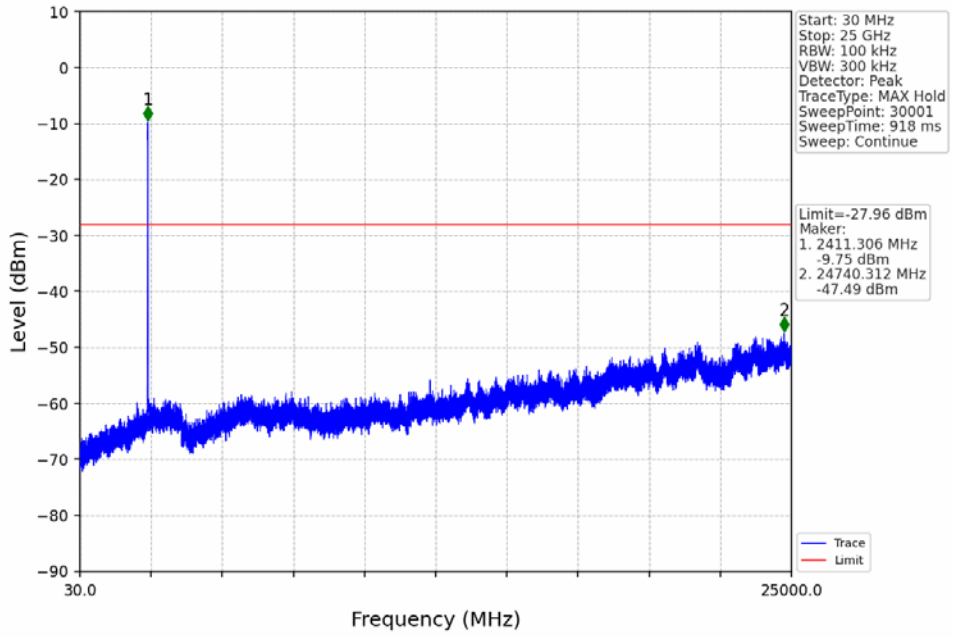
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



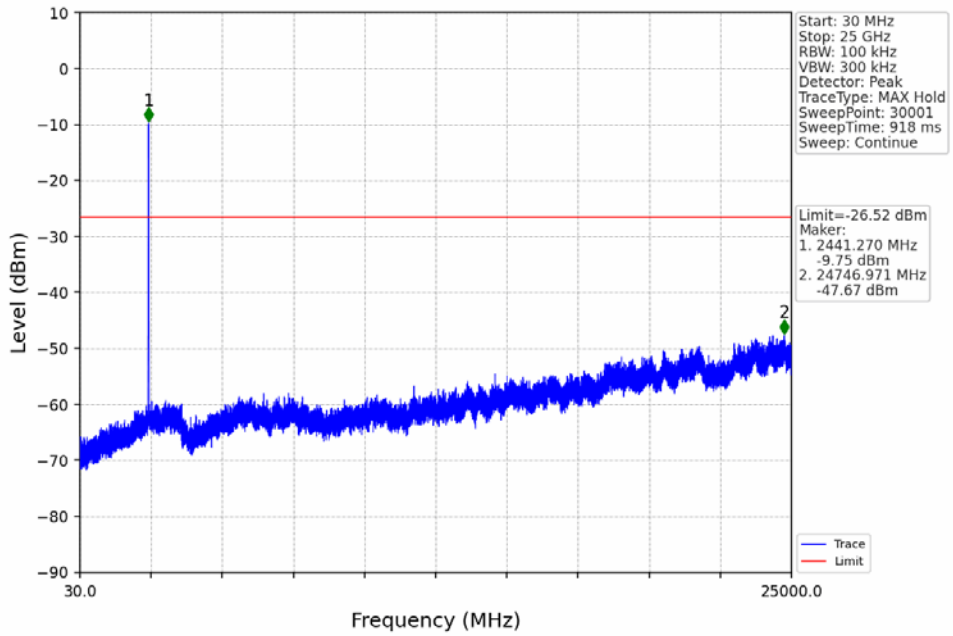
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



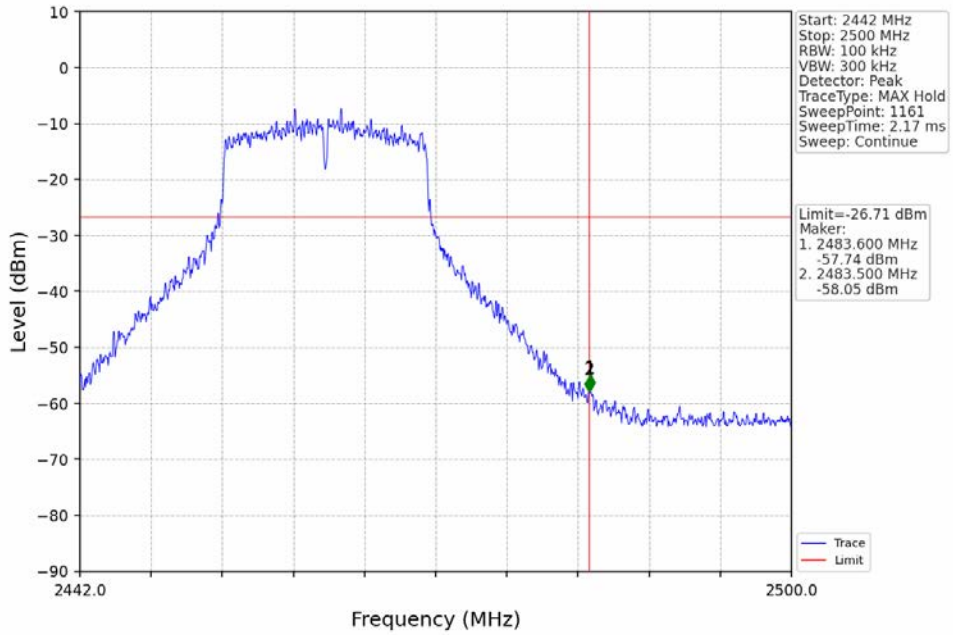
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



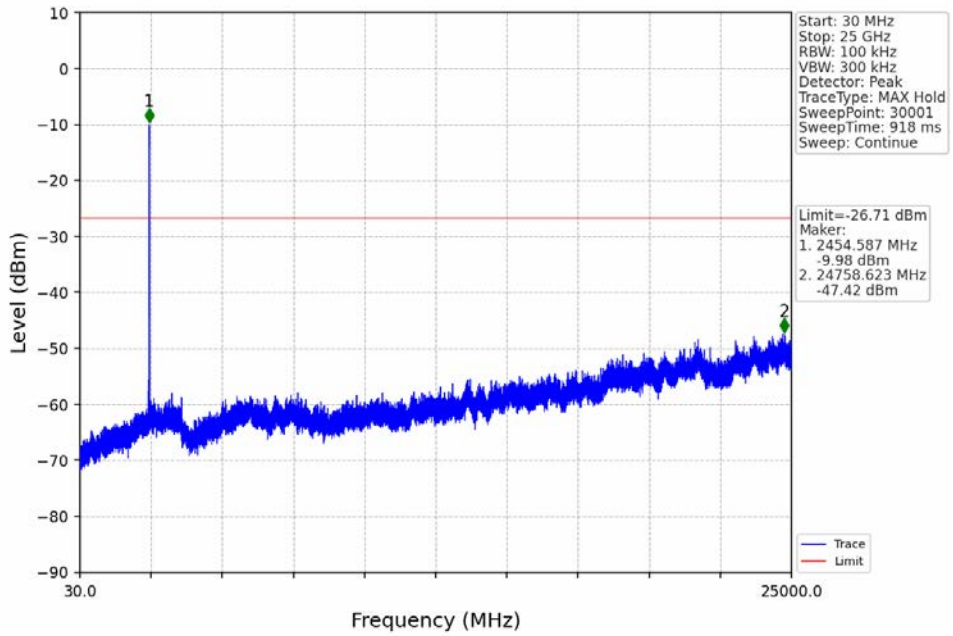
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



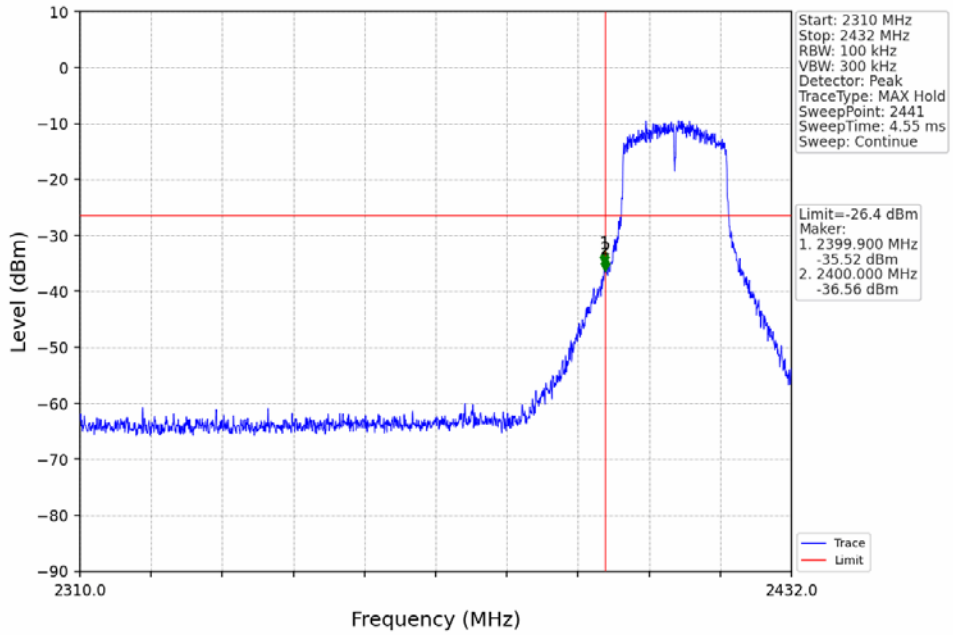
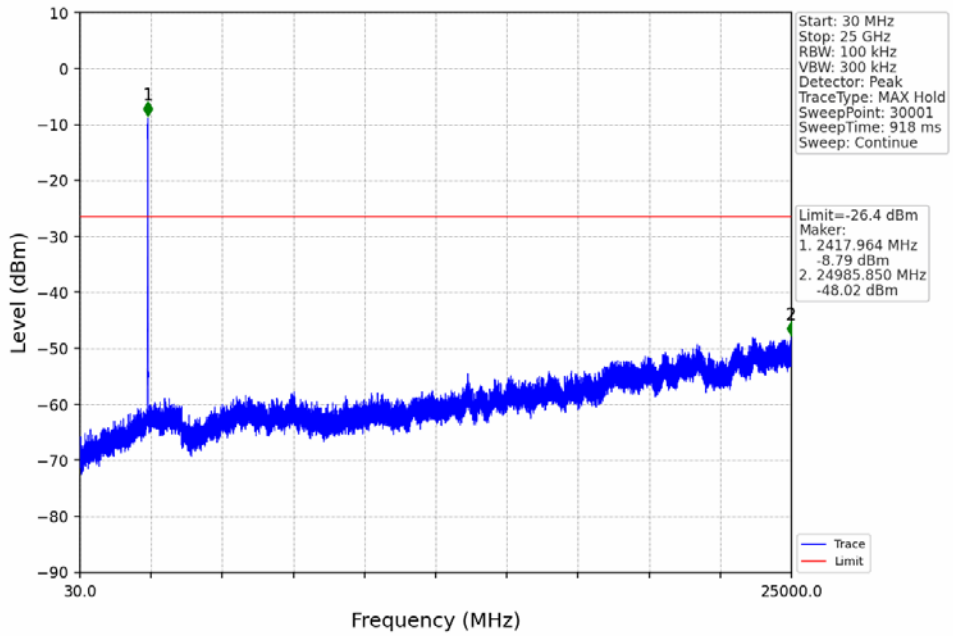
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV