

Appendix RF test data for WIFI2.4G

1. Duty Cycle

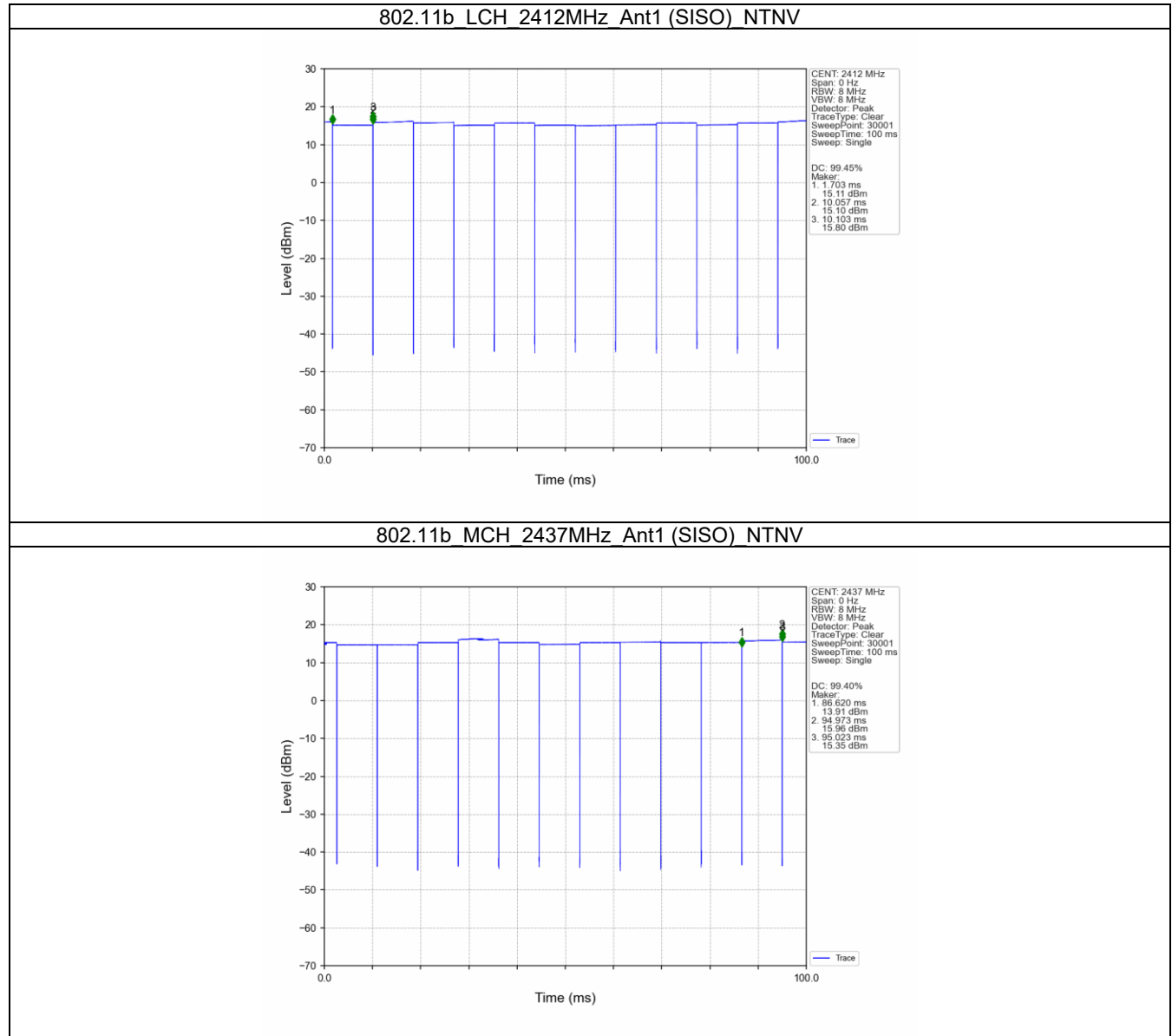
1.1 Test Result

1.1.1 Ant1

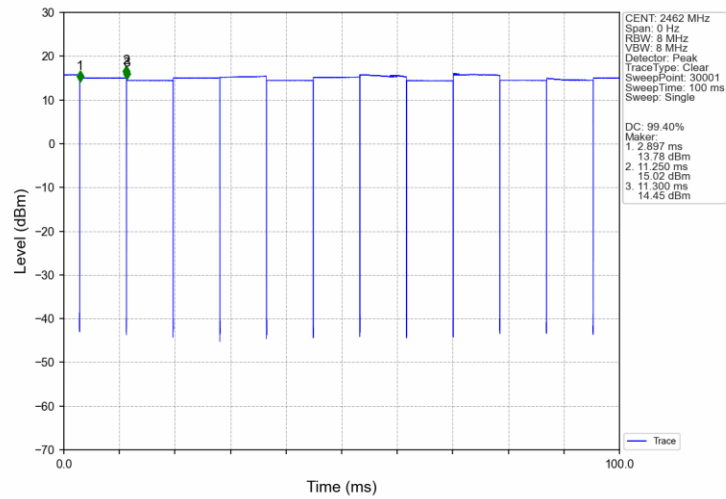
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.354	8.400	99.45	0.02	0.00
		2437	/	/	8.353	8.403	99.40	0.03	0.08
		2462	/	/	8.353	8.403	99.40	0.03	0.04
802.11g	SISO	2412	/	/	4.274	4.321	98.91	0.05	0.04
		2437	/	/	4.274	4.321	98.91	0.05	0.04
		2462	/	/	4.274	4.321	98.91	0.05	0.07
802.11n (HT20)	SISO	2412	/	/	3.980	4.029	98.78	0.05	0.10
		2437	/	/	3.980	4.029	98.78	0.05	0.07
		2462	/	/	3.980	4.028	98.81	0.05	0.03
802.11n (HT40)	SISO	2422	/	/	3.980	4.028	98.81	0.05	0.07
		2437	/	/	3.980	4.029	98.78	0.05	0.07
		2452	/	/	3.981	4.029	98.81	0.05	0.07
802.11ax (HEW20)	SISO	2412	SU	/	3.979	4.029	98.76	0.05	0.10
		2437	SU	/	3.979	4.028	98.78	0.05	0.07
		2462	SU	/	3.978	4.027	98.78	0.05	0.03
802.11ax (HEW40)	SISO	2422	SU	/	3.981	4.030	98.78	0.05	0.03
		2437	SU	/	3.982	4.031	98.78	0.05	0.04
		2452	SU	/	3.983	4.032	98.78	0.05	0.07

1.2 Test Graph

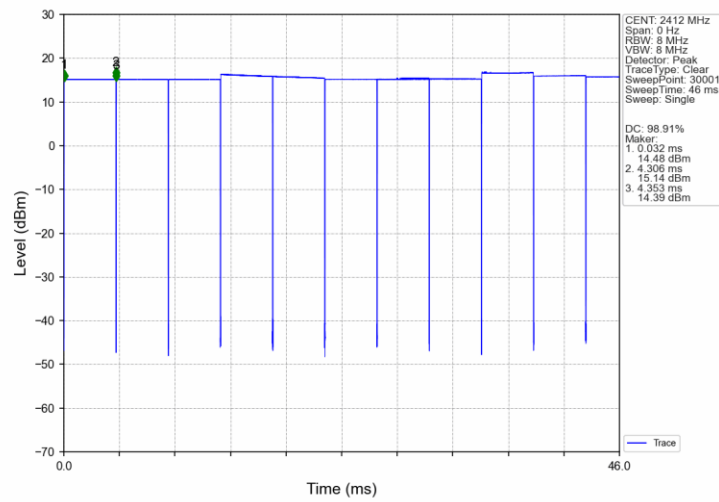
1.2.1 Ant1



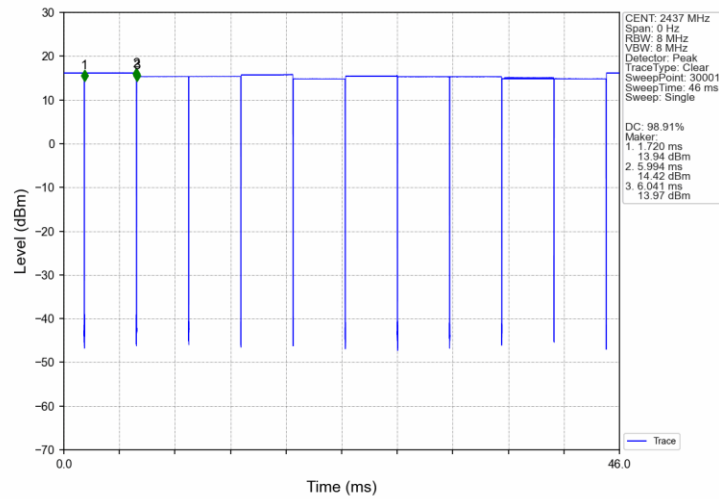
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



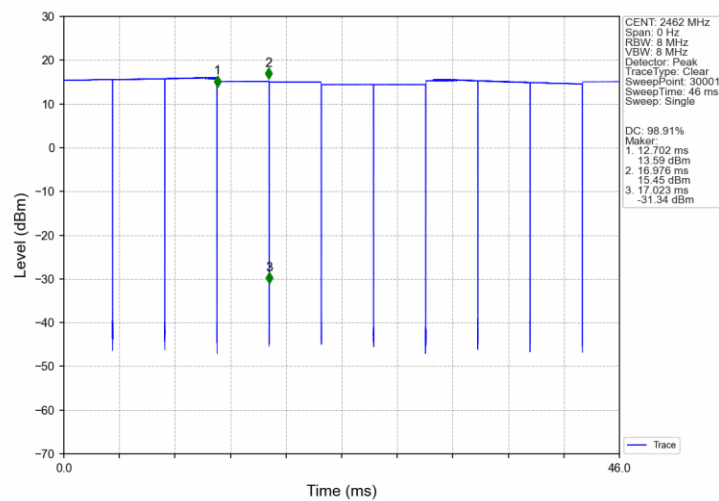
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



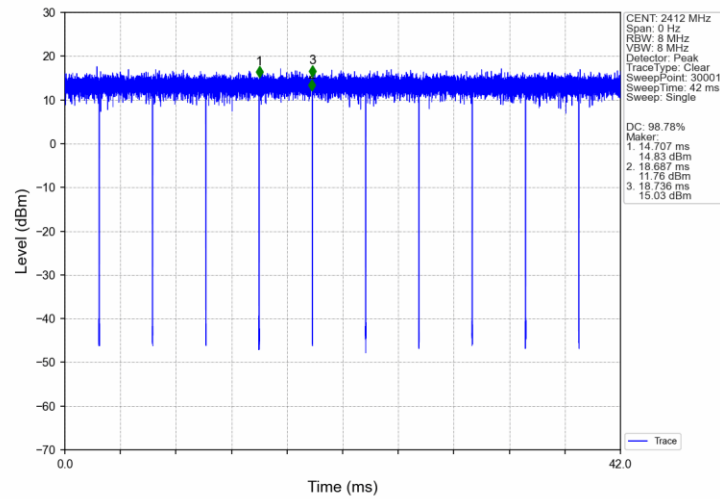
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



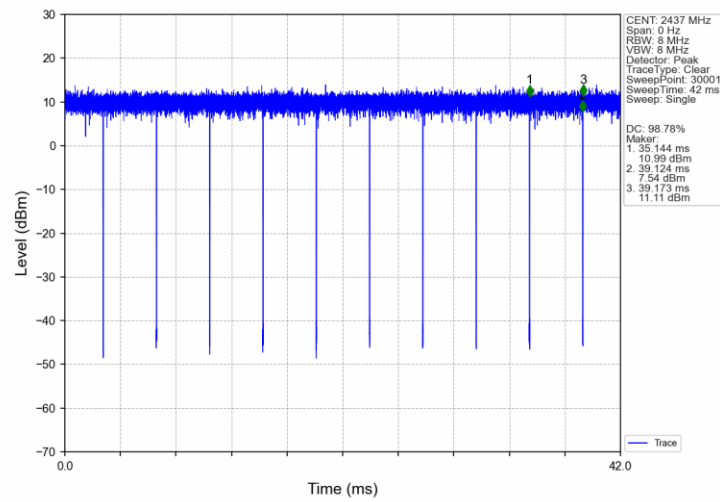
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



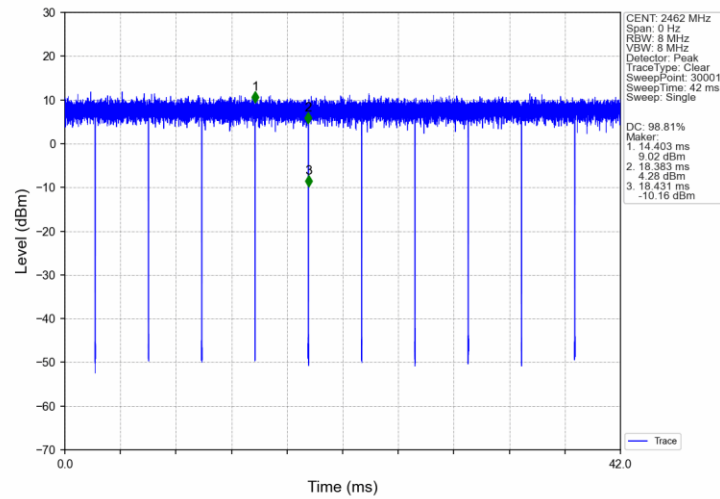
802.11n(HT20)_LCH_2412MHz_Ant1 (SISIO)_NTNV



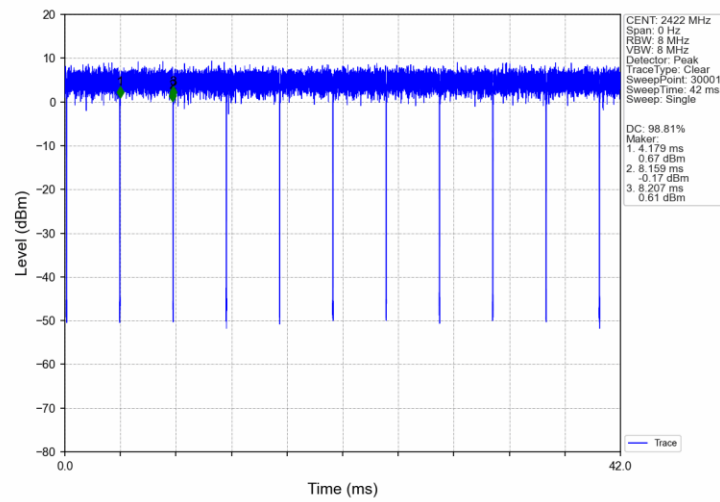
802.11n(HT20)_MCH_2437MHz_Ant1 (SISIO)_NTNV



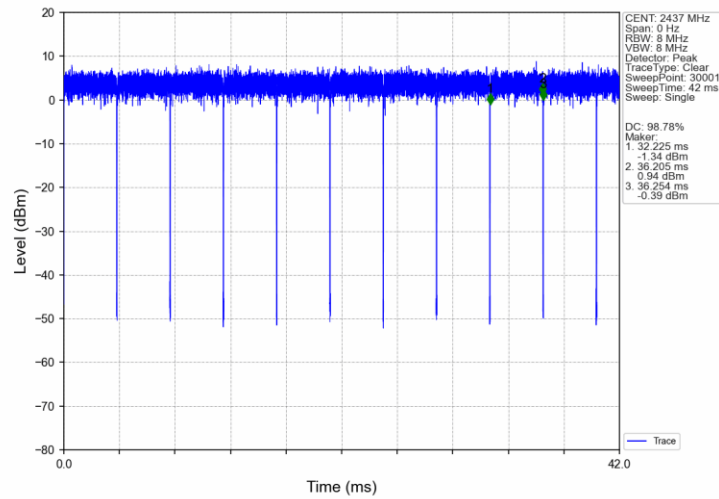
802.11n(HT20)_HCH_2462MHz_Ant1 (SISIO)_NTNV



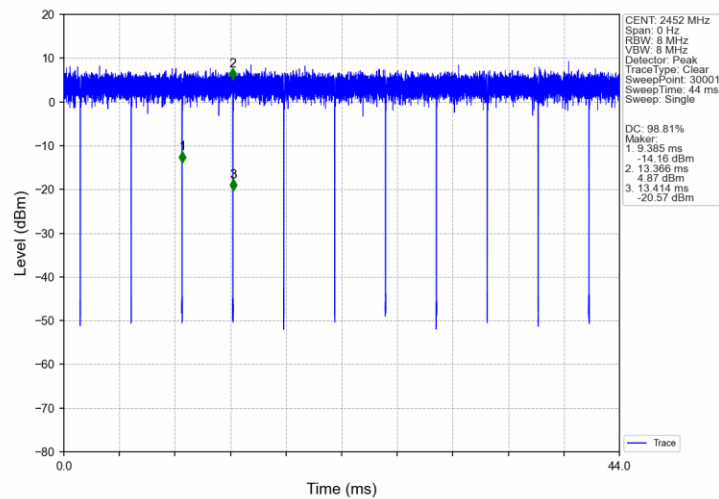
802.11n(HT40)_LCH_2422MHz_Ant1 (SISIO)_NTNV



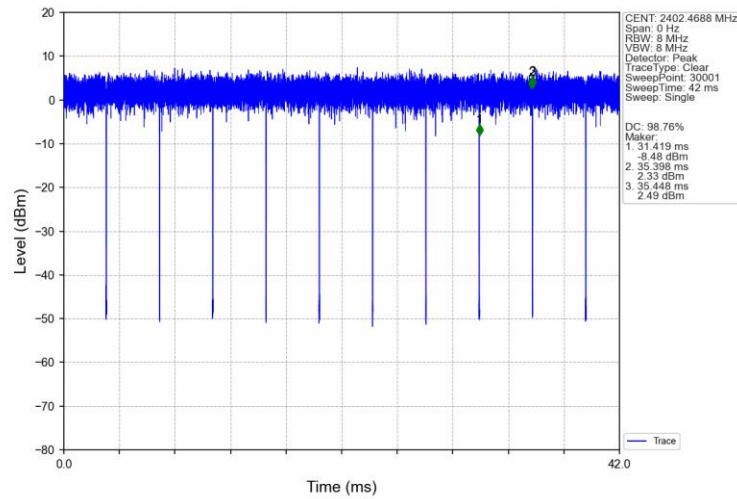
802.11n(HT40)_MCH_2437MHz_Ant1 (SISIO)_NTNV



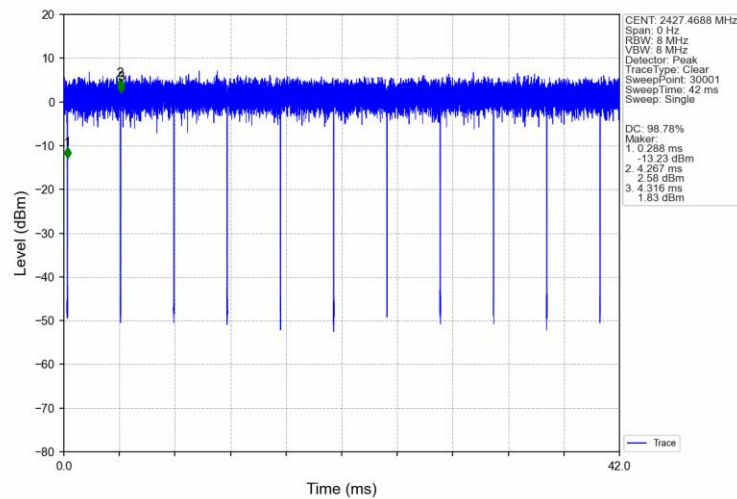
802.11n(HT40)_HCH_2452MHz_Ant1 (SISIO)_NTNV



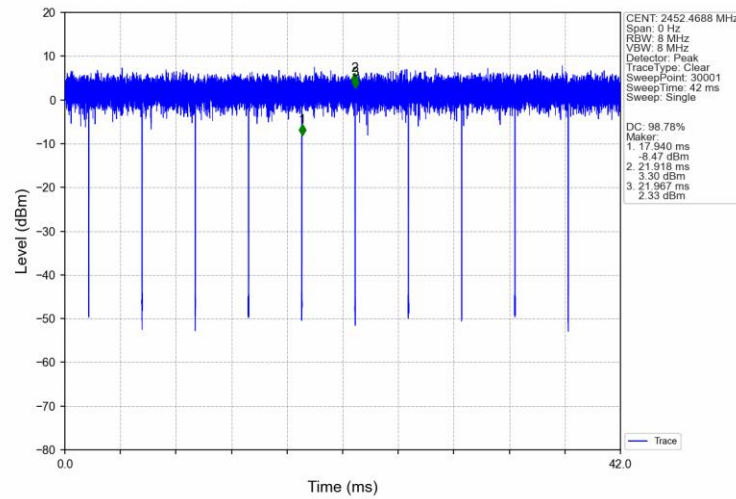
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISIO)_NTNV



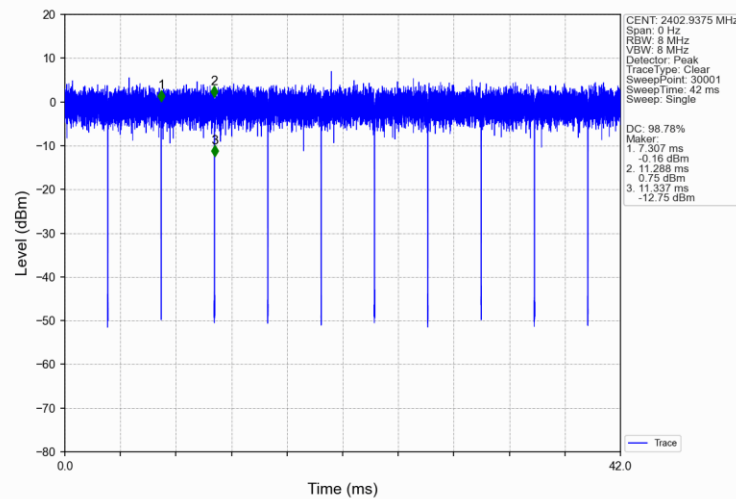
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISIO)_NTNV



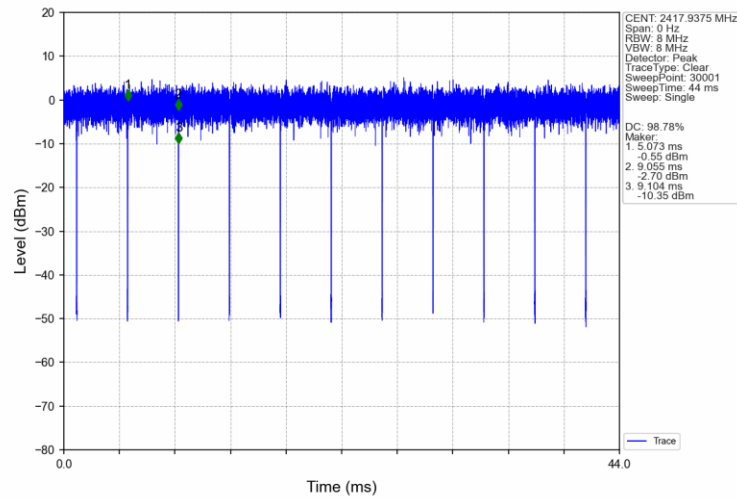
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (SISIO)_NTNV



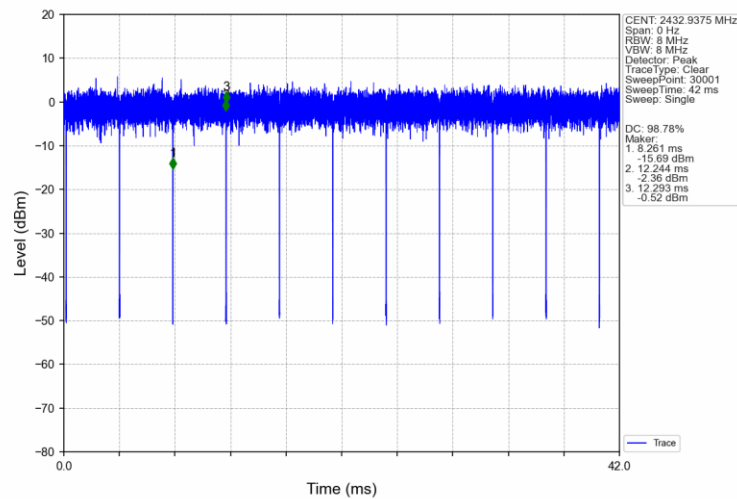
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (SISIO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / _Ant1 (SISIO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (SISIO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

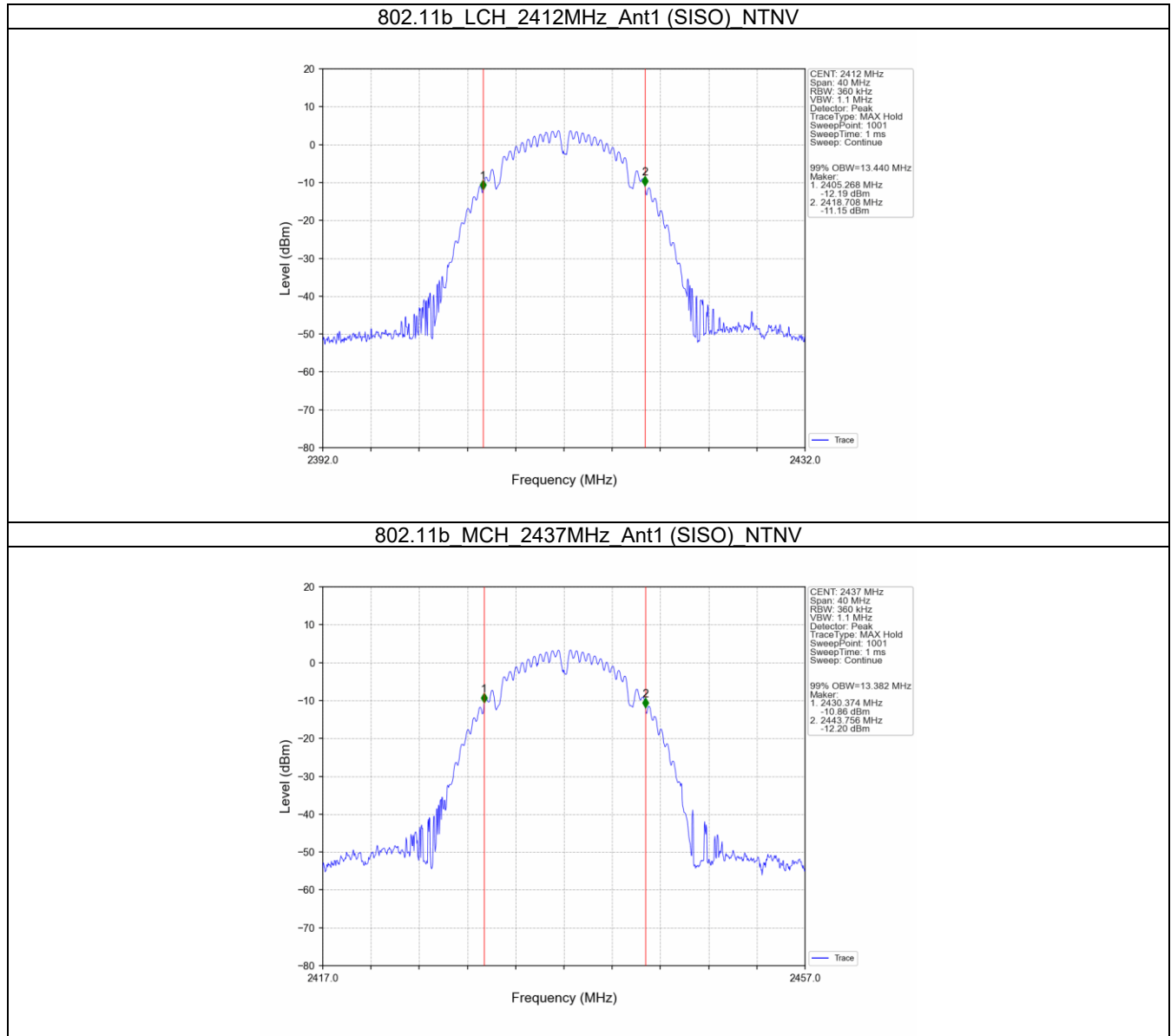
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	13.440	/	Pass
		2437	/	/	1	13.382	/	Pass
		2462	/	/	1	13.492	/	Pass
802.11g	SISO	2412	/	/	1	13.422	/	Pass
		2437	/	/	1	13.375	/	Pass
		2462	/	/	1	13.486	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	18.441	/	Pass
		2437	/	/	1	18.410	/	Pass
		2462	/	/	1	18.522	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.531	/	Pass
		2437	/	/	1	36.483	/	Pass
		2452	/	/	1	36.521	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	19.173	/	Pass
		2437	SU	/	1	19.191	/	Pass
		2462	SU	/	1	19.267	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.994	/	Pass
		2437	SU	/	1	37.949	/	Pass
		2452	SU	/	1	38.095	/	Pass

2.1.2 6dB BW

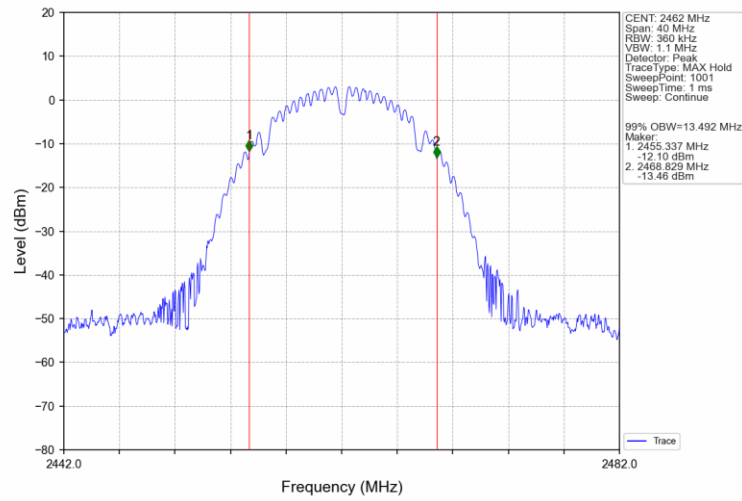
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	9.202	>=0.5	Pass
		2437	/	/	1	9.186	>=0.5	Pass
		2462	/	/	1	9.207	>=0.5	Pass
802.11g	SISO	2412	/	/	1	8.276	>=0.5	Pass
		2437	/	/	1	8.243	>=0.5	Pass
		2462	/	/	1	8.278	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	17.352	>=0.5	Pass
		2437	/	/	1	17.307	>=0.5	Pass
		2462	/	/	1	17.372	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.989	>=0.5	Pass
		2437	/	/	1	35.930	>=0.5	Pass
		2452	/	/	1	35.801	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.499	>=0.5	Pass
		2437	SU	/	1	18.664	>=0.5	Pass
		2462	SU	/	1	18.527	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	37.506	>=0.5	Pass
		2437	SU	/	1	37.393	>=0.5	Pass
		2452	SU	/	1	37.474	>=0.5	Pass

2.2 Test Graph

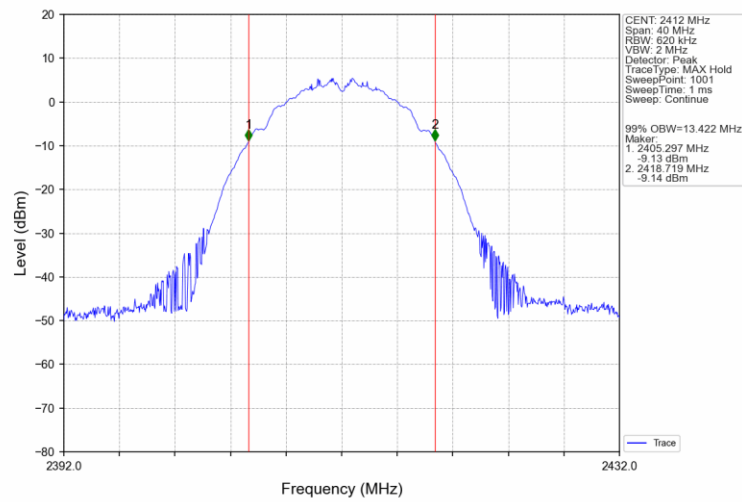
2.2.1 OBW



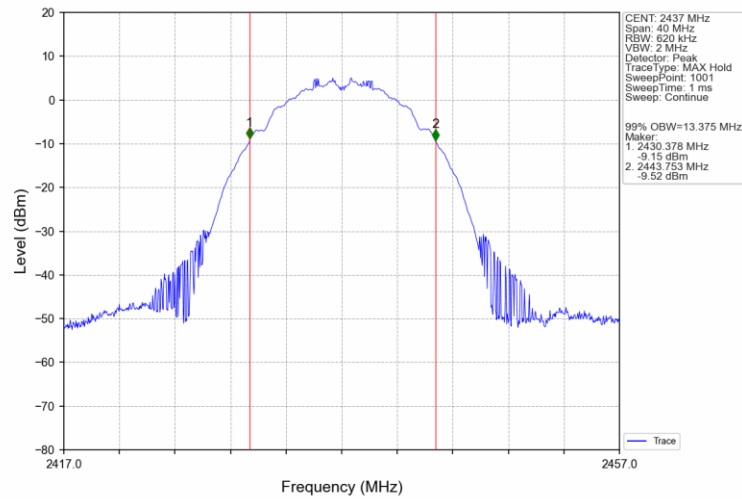
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



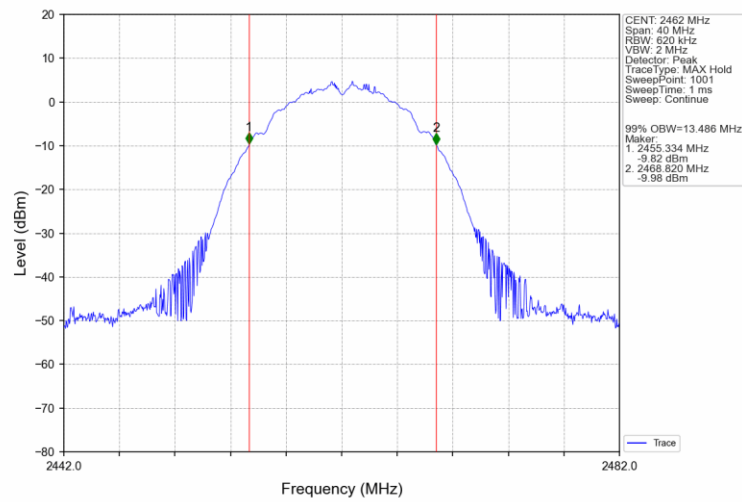
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



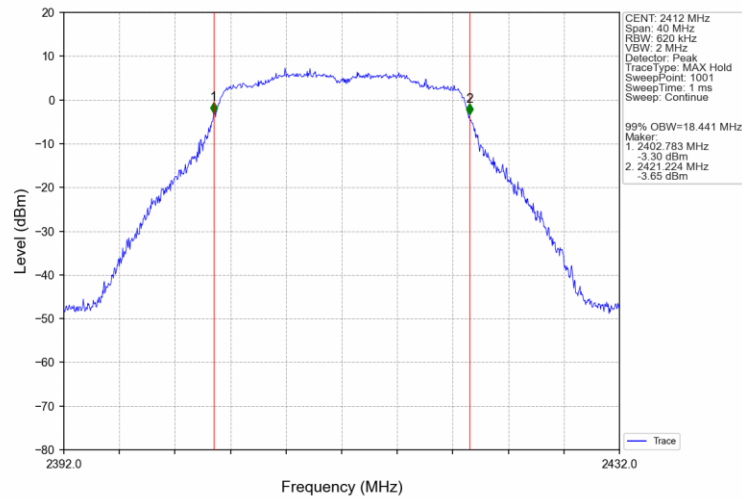
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



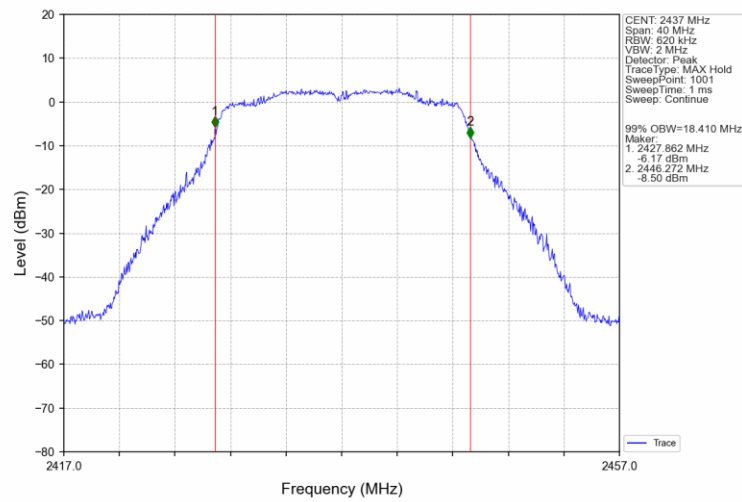
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



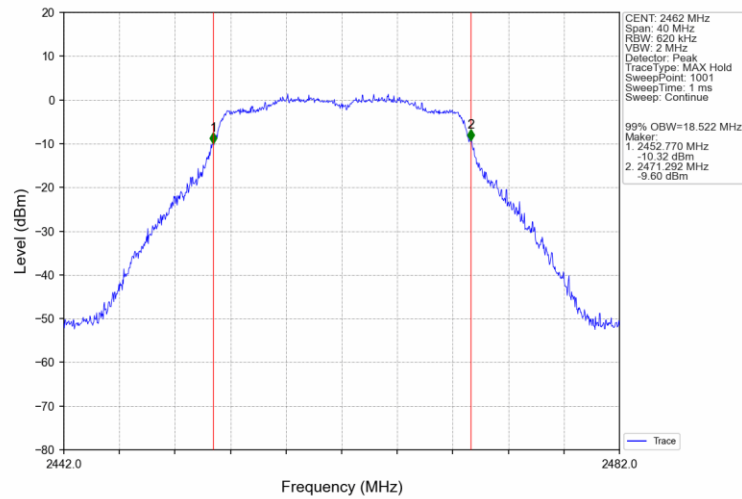
802.11n(HT20)_LCH_2412MHz_Ant1 (SISIO)_NTNV



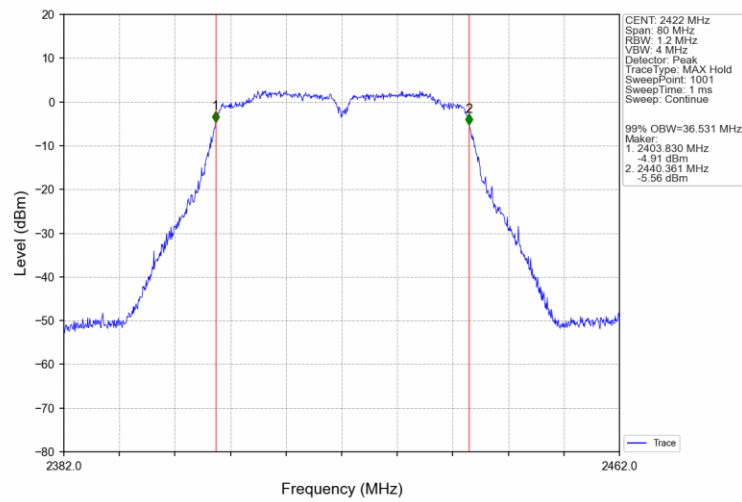
802.11n(HT20)_MCH_2437MHz_Ant1 (SISIO)_NTNV



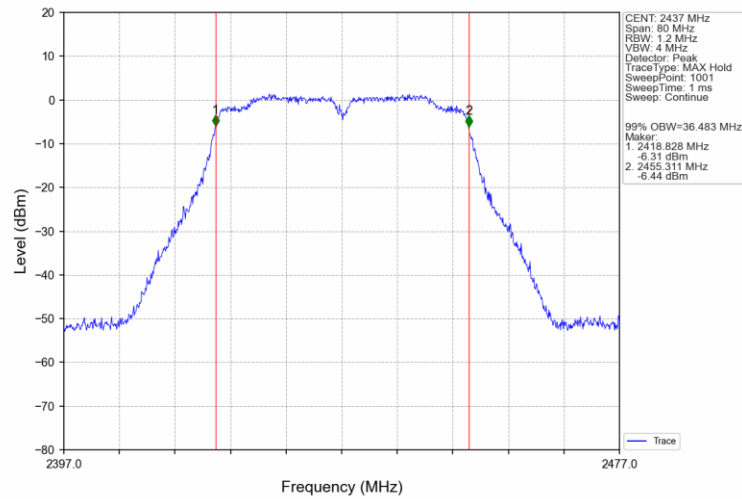
802.11n(HT20)_HCH_2462MHz_Ant1 (SISIO)_NTNV



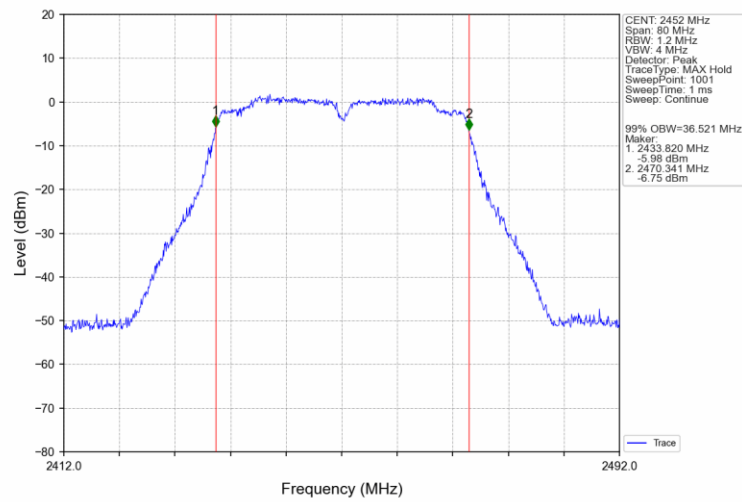
802.11n(HT40)_LCH_2422MHz_Ant1 (SISIO)_NTNV



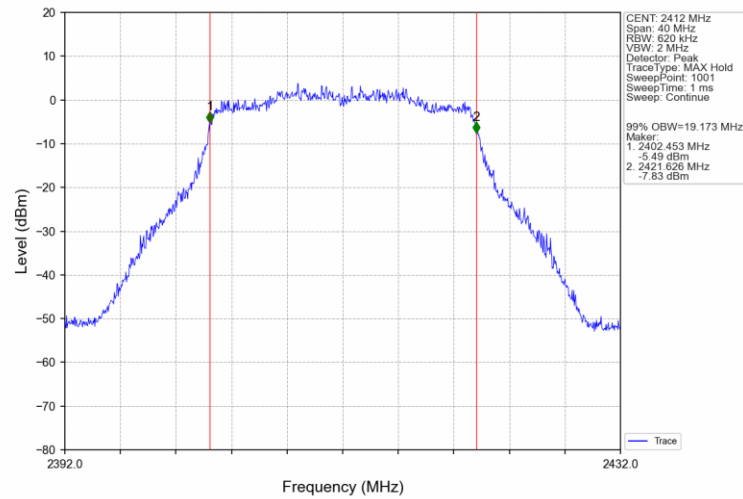
802.11n(HT40) MCH_2437MHz_Ant1 (SISIO) NTN



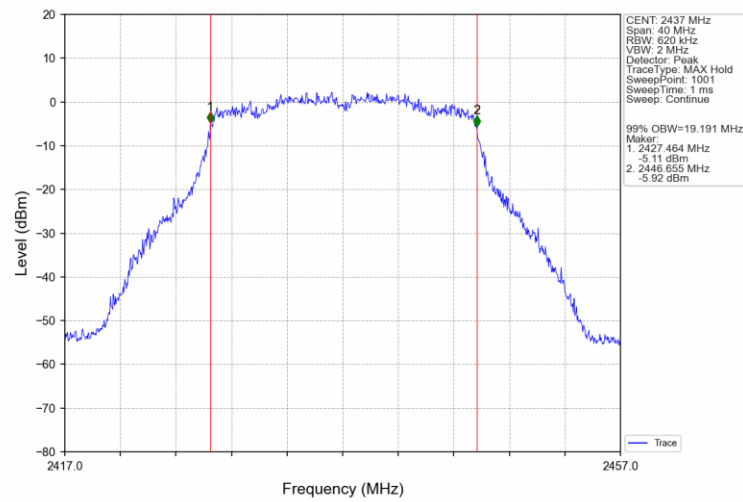
802.11n(HT40) HCH_2452MHz_Ant1 (SISIO) NTN



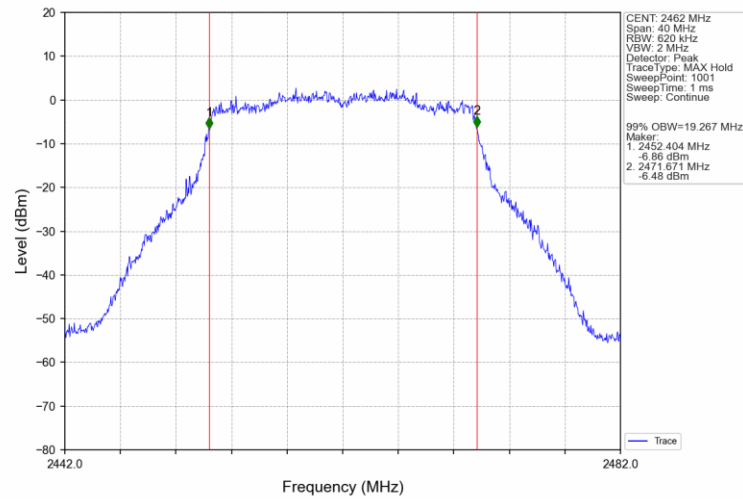
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISIO)_NTNV



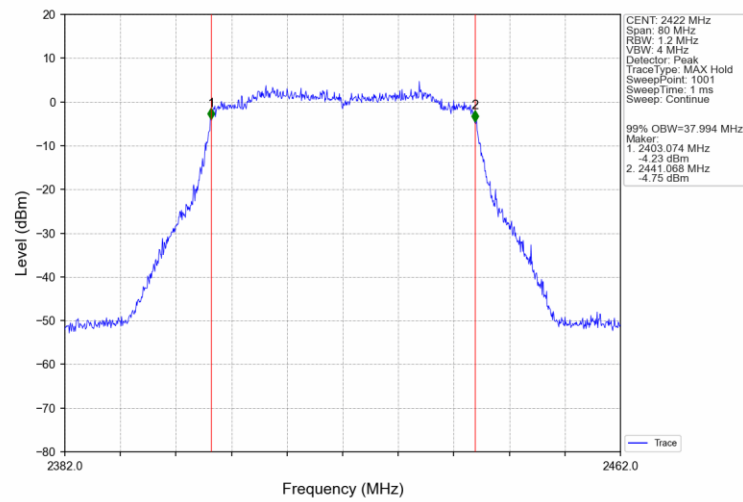
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISIO)_NTNV



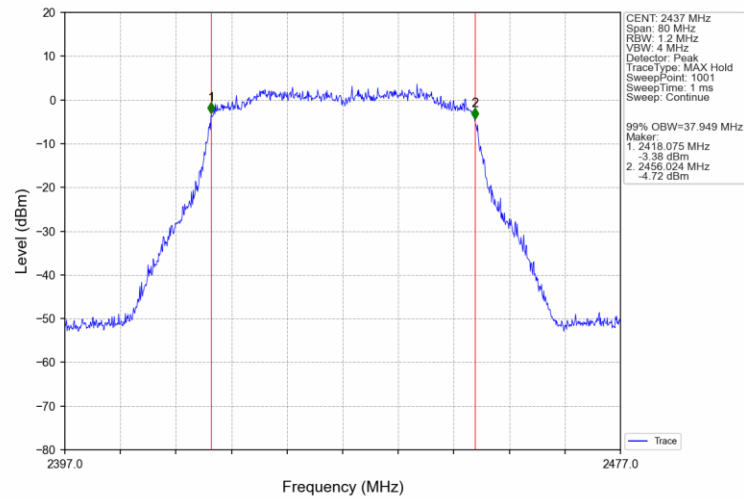
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (SISIO)_NTNV



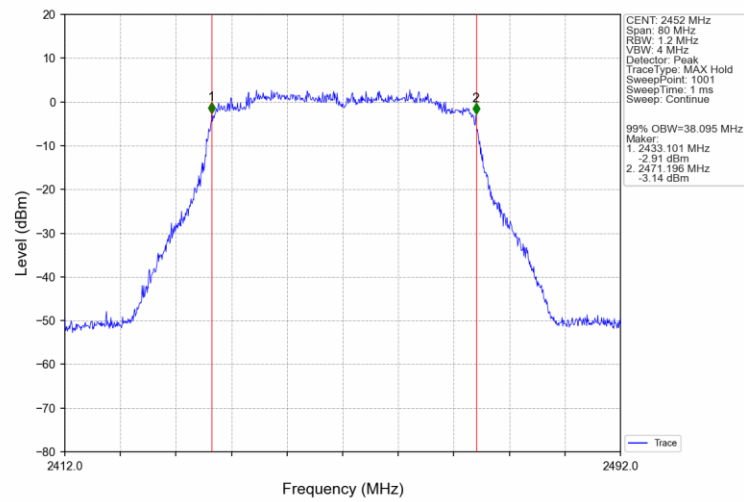
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (SISIO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / _Ant1 (SISIO)_NTNV

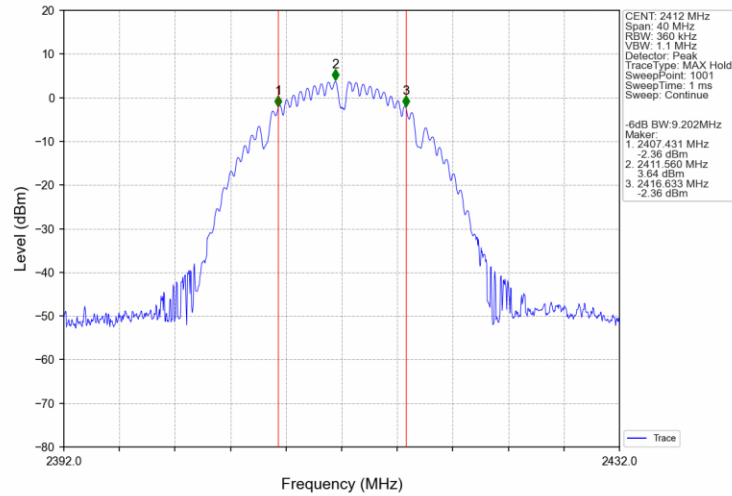


802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (SISIO)_NTNV

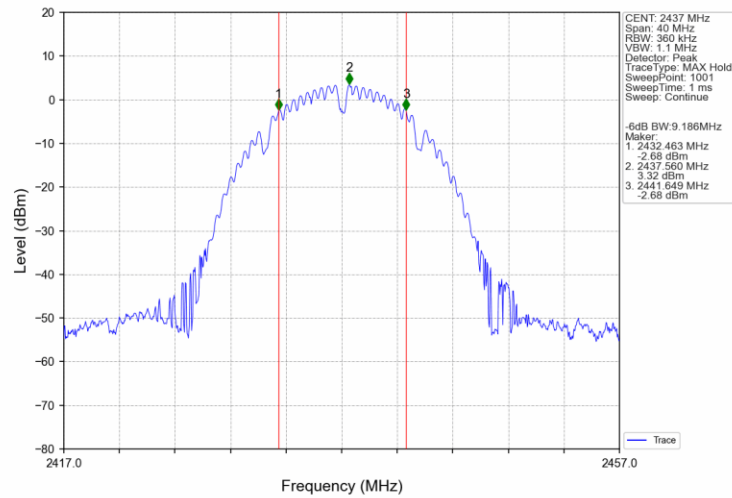


2.2.2 6dB BW

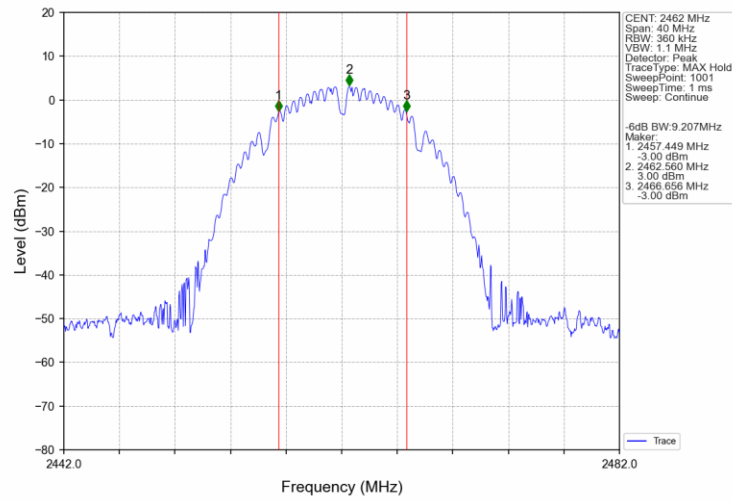
802.11b LCH 2412MHz Ant1 (SISO) NTN



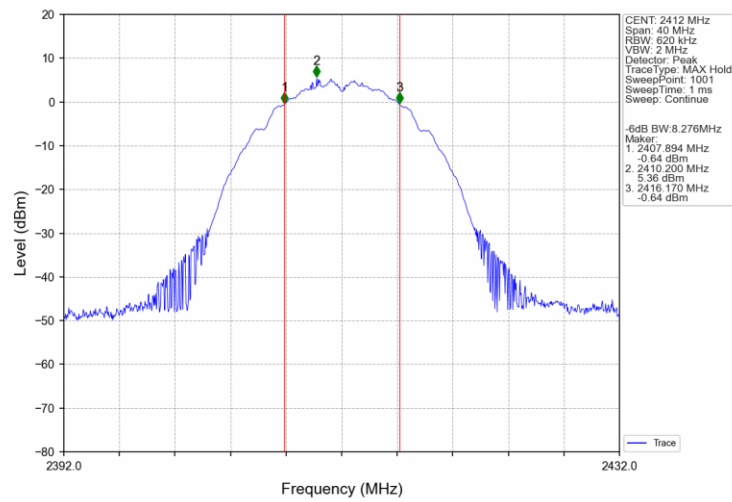
802.11b MCH 2437MHz Ant1 (SISO) NTN



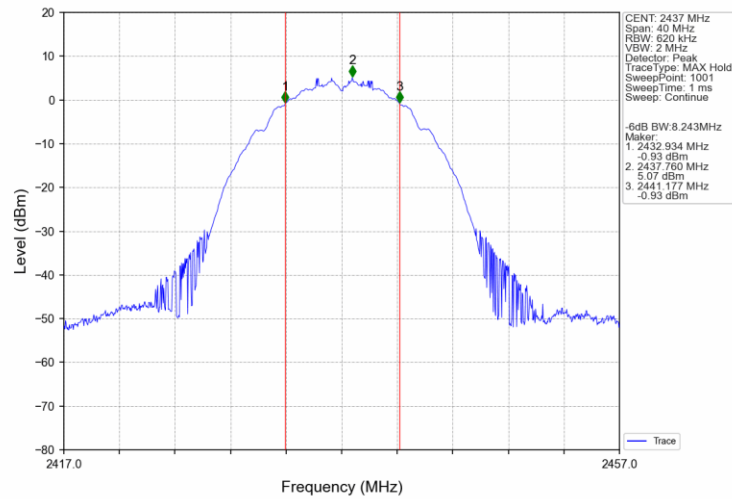
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



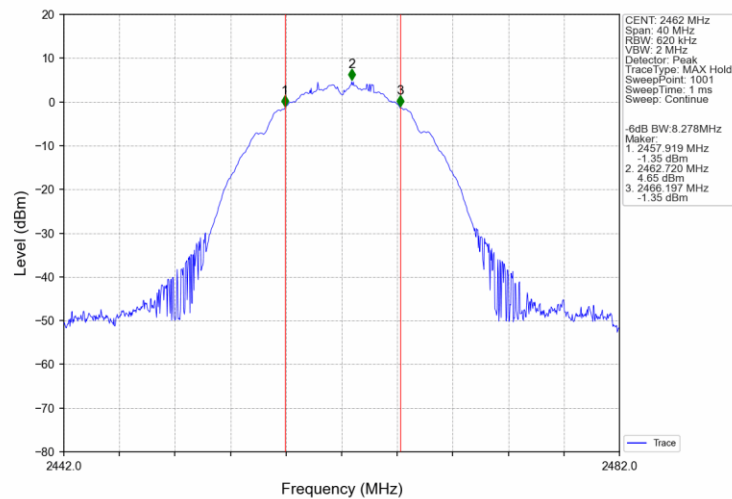
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



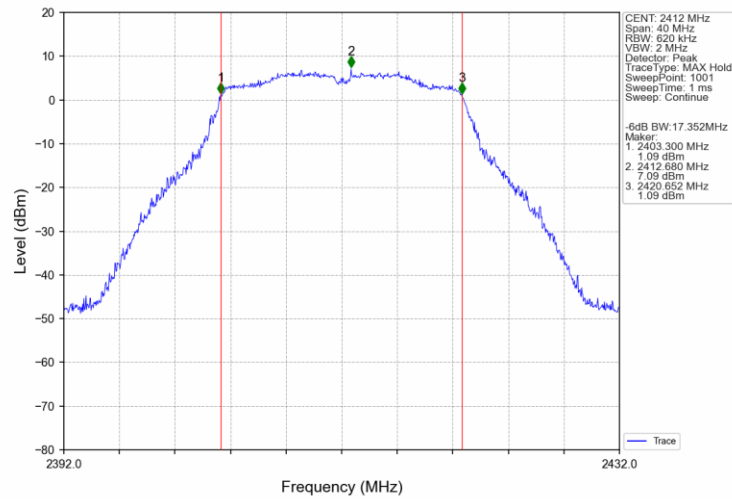
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



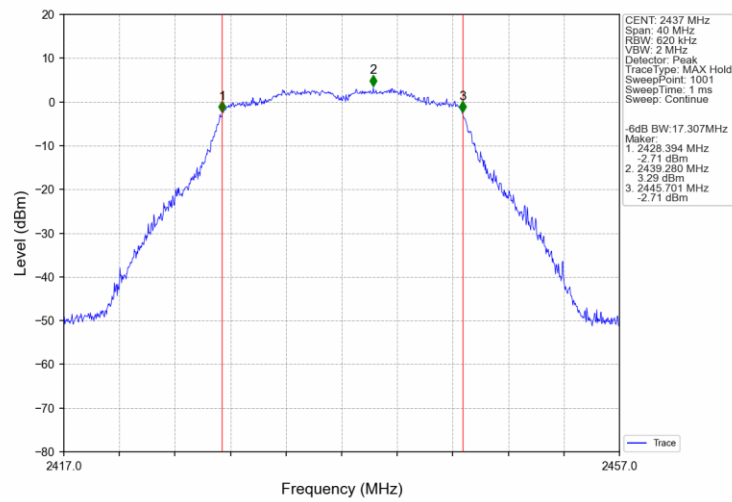
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



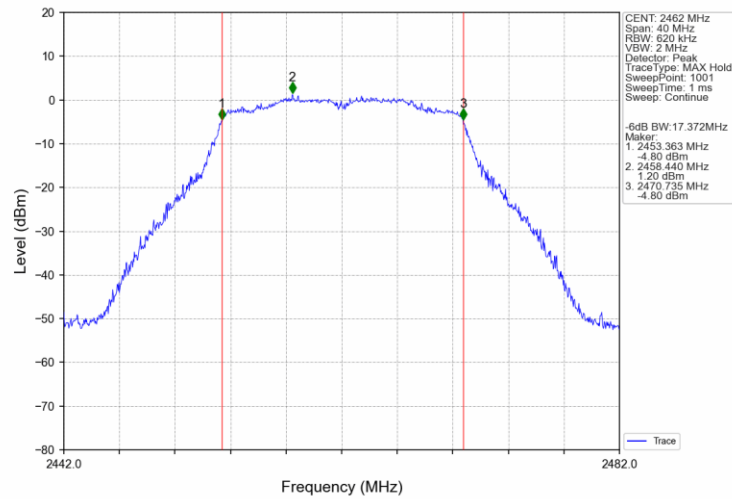
802.11n(HT20)_LCH_2412MHz_Ant1 (SISIO)_NTNV



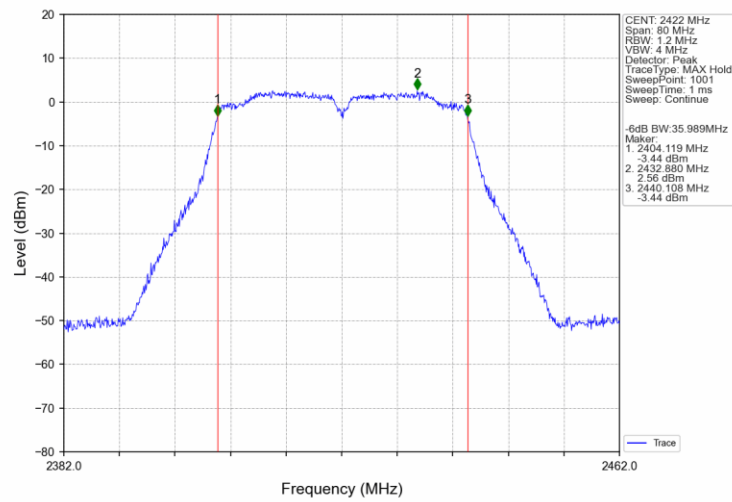
802.11n(HT20)_MCH_2437MHz_Ant1 (SISIO)_NTNV



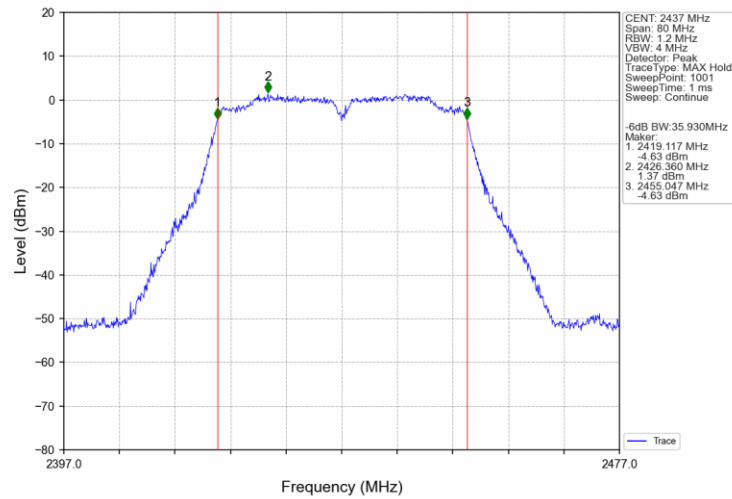
802.11n(HT20)_HCH_2462MHz_Ant1 (SISIO)_NTNV



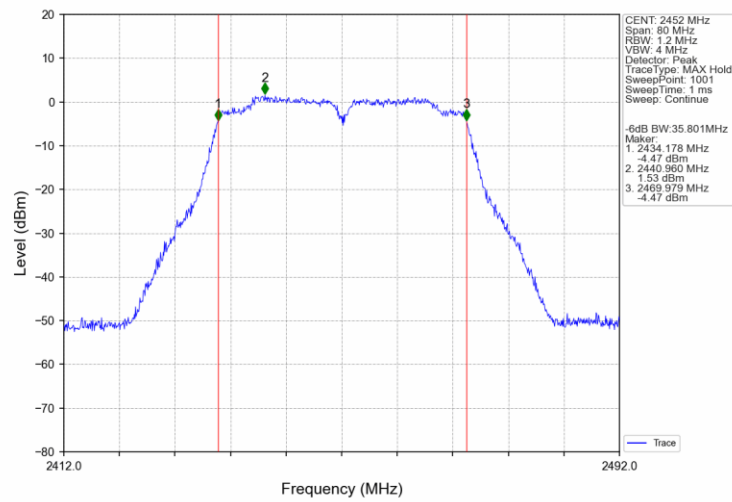
802.11n(HT40)_LCH_2422MHz_Ant1 (SISIO)_NTNV



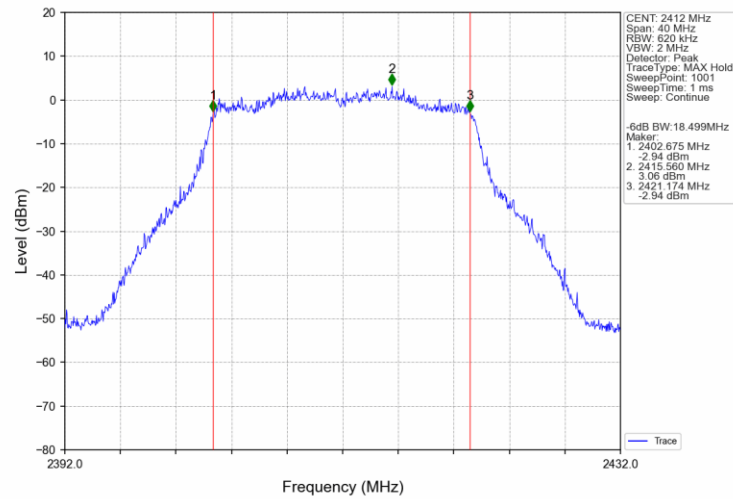
802.11n(HT40)_MCH_2437MHz_Ant1 (SISIO)_NTNV



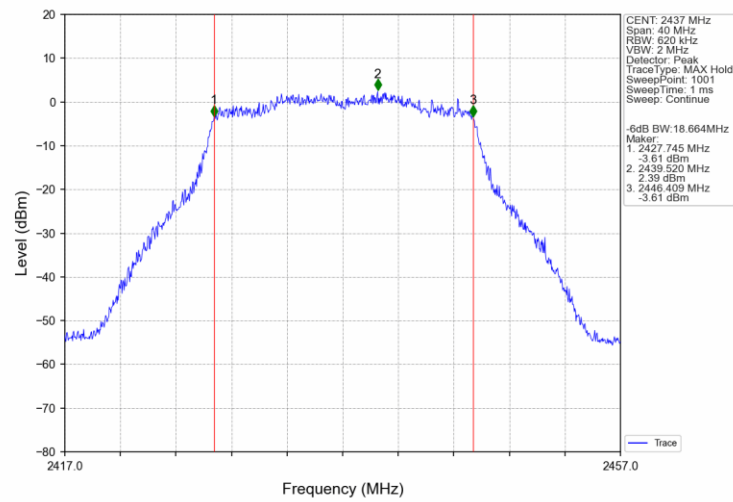
802.11n(HT40)_HCH_2452MHz_Ant1 (SISIO)_NTNV



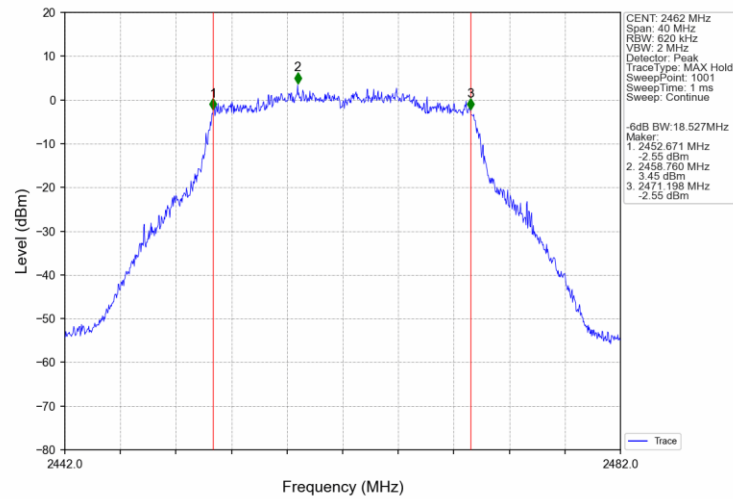
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISIO)_NTNV



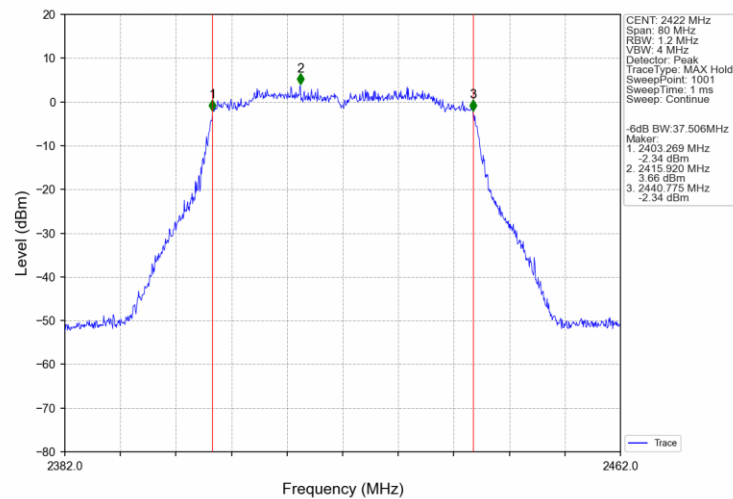
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISIO)_NTNV



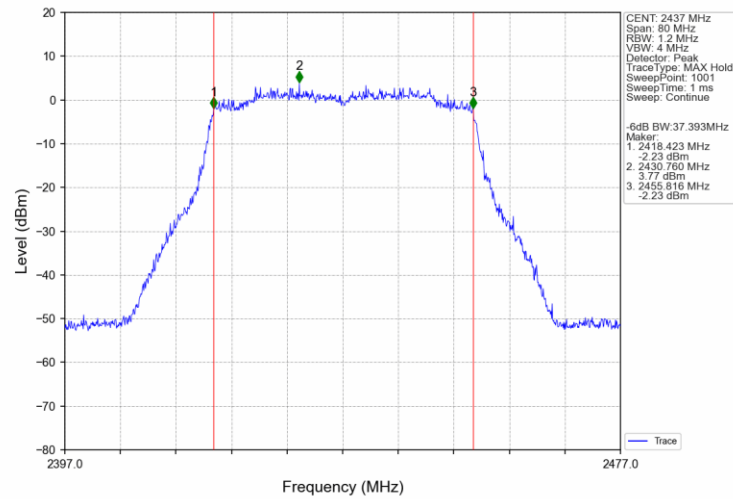
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (SISIO)_NTNV



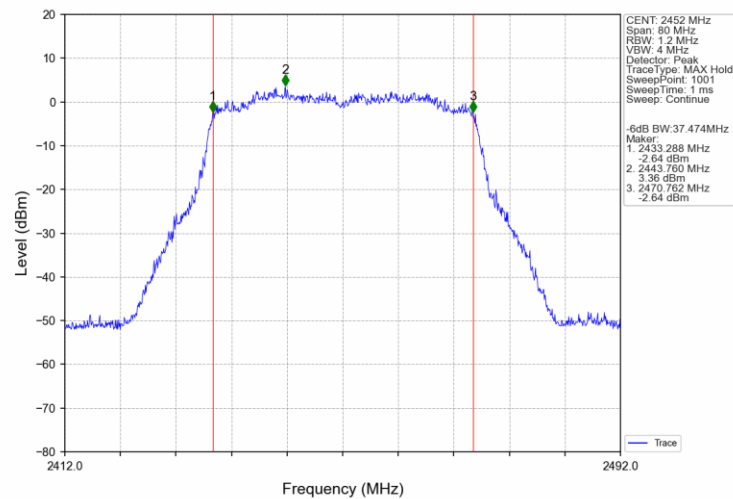
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (SISIO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / _Ant1 (SISIO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (SISIO)_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	/	/	14.42	<=30	Pass
		2437	/	/	14.07	<=30	Pass
		2462	/	/	13.80	<=30	Pass
802.11g	SISO	2412	/	/	14.54	<=30	Pass
		2437	/	/	14.19	<=30	Pass
		2462	/	/	13.77	<=30	Pass
802.11n (HT20)	SISIO	2412	/	/	16.57	<=30	Pass
		2437	/	/	14.25	<=30	Pass
		2462	/	/	14.00	<=30	Pass
802.11n (HT40)	SISIO	2422	/	/	14.80	<=30	Pass
		2437	/	/	13.59	<=30	Pass
		2452	/	/	13.52	<=30	Pass
802.11ax (HEW20)	SISIO	2412	SU	/	14.45	<=30	Pass
		2437	SU	/	14.00	<=30	Pass
		2462	SU	/	14.24	<=30	Pass
802.11ax (HEW40)	SISIO	2422	SU	/	15.15	<=30	Pass
		2437	SU	/	14.92	<=30	Pass
		2452	SU	/	14.85	<=30	Pass

4. Maximum Power Spectral Density

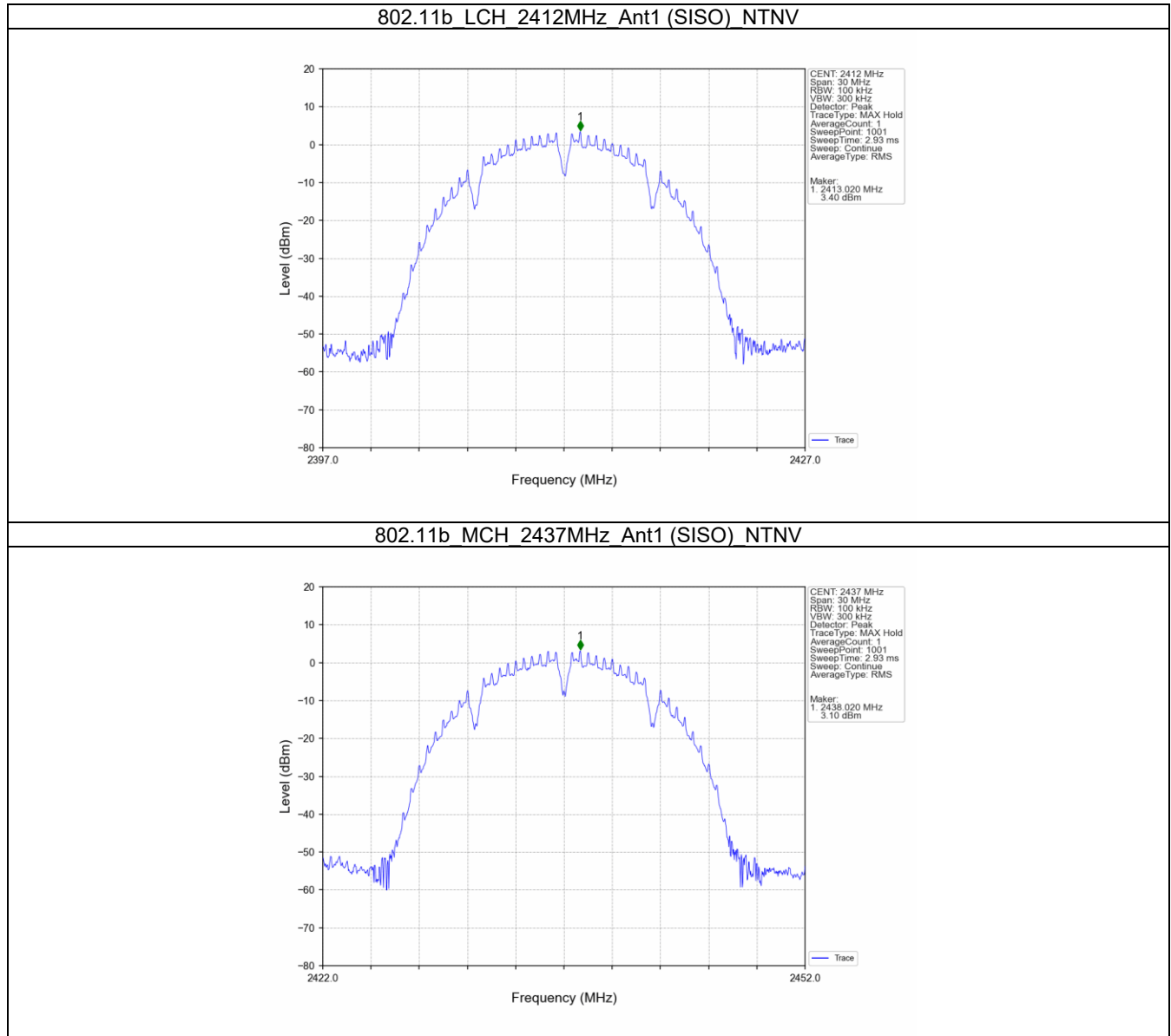
4.1 Test Result

4.1.1 PSD

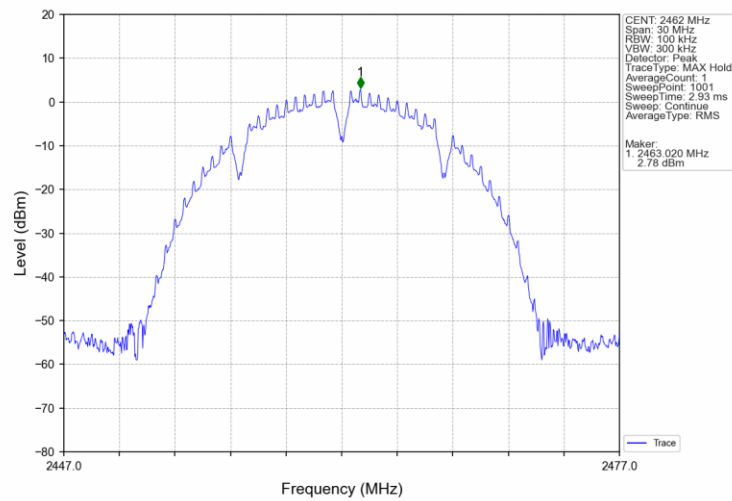
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	3.40	<=8	Pass
		2437	/	/	3.10	<=8	Pass
		2462	/	/	2.78	<=8	Pass
802.11g	SISO	2412	/	/	3.33	<=8	Pass
		2437	/	/	2.81	<=8	Pass
		2462	/	/	2.45	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-3.96	<=8	Pass
		2437	/	/	-4.69	<=8	Pass
		2462	/	/	-3.71	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-6.66	<=8	Pass
		2437	/	/	-7.96	<=8	Pass
		2452	/	/	-7.81	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-4.18	<=8	Pass
		2437	SU	/	-4.33	<=8	Pass
		2462	SU	/	-4.61	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	-7.13	<=8	Pass
		2437	SU	/	-7.37	<=8	Pass
		2452	SU	/	-7.74	<=8	Pass

4.2 Test Graph

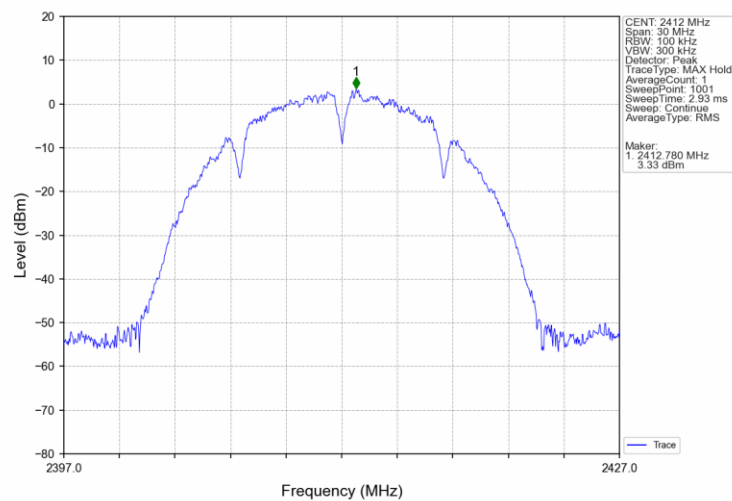
4.2.1 PSD



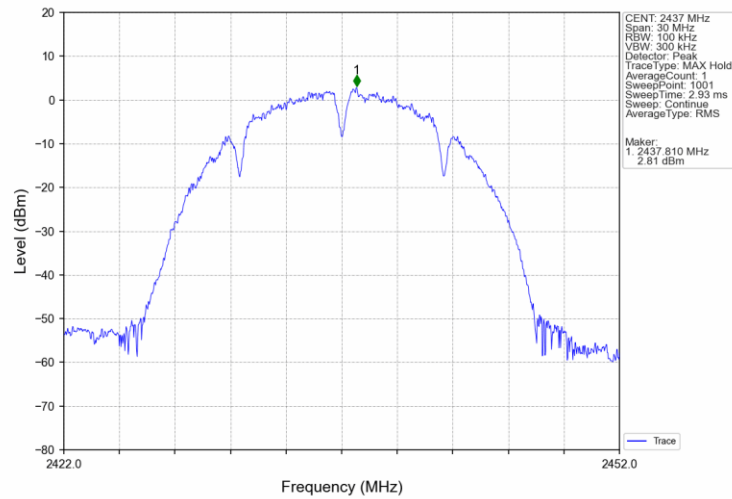
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



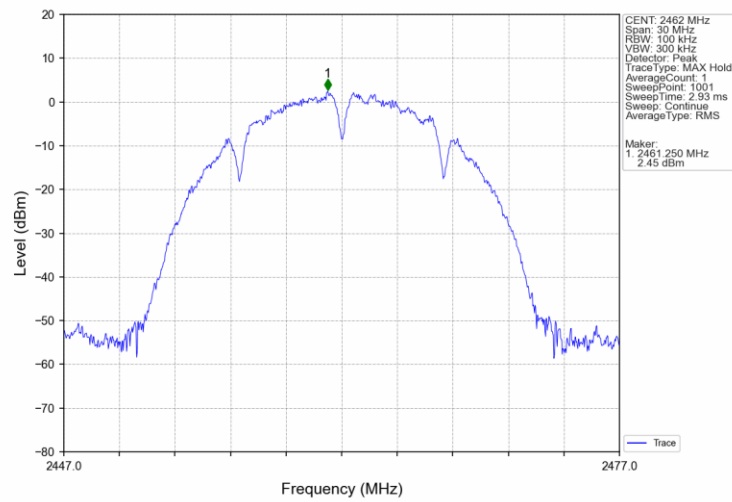
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



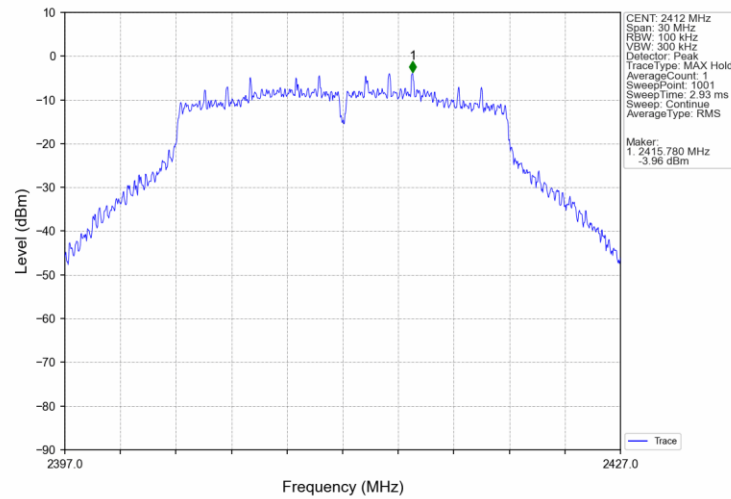
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



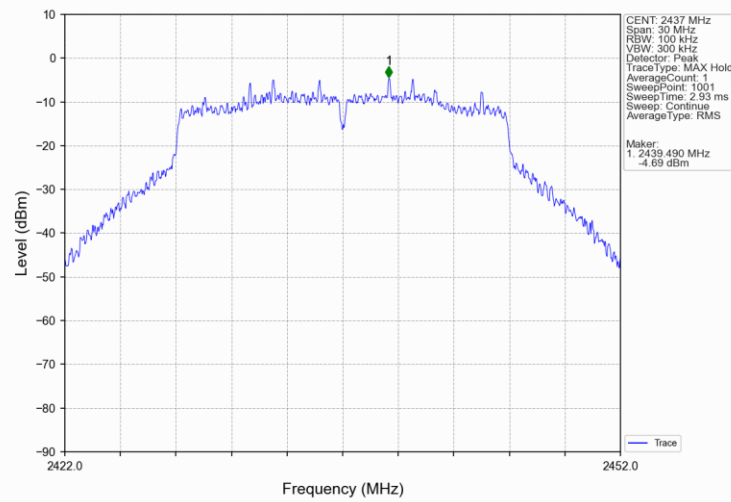
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



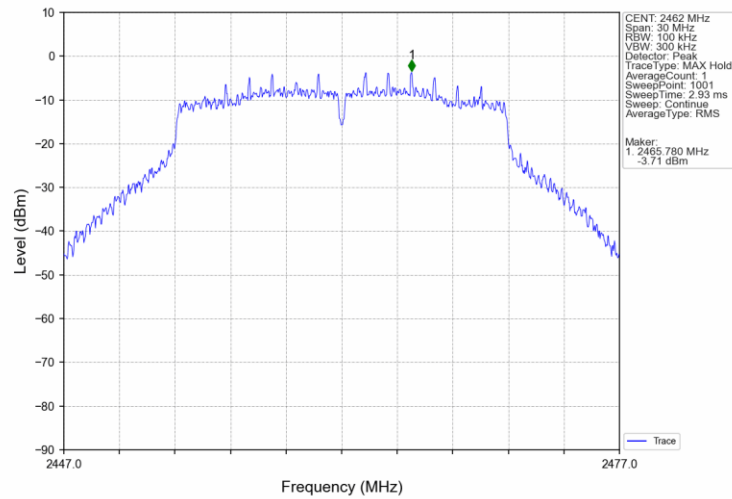
802.11n(HT20)_LCH_2412MHz_Ant1 (SISIO)_NTNV



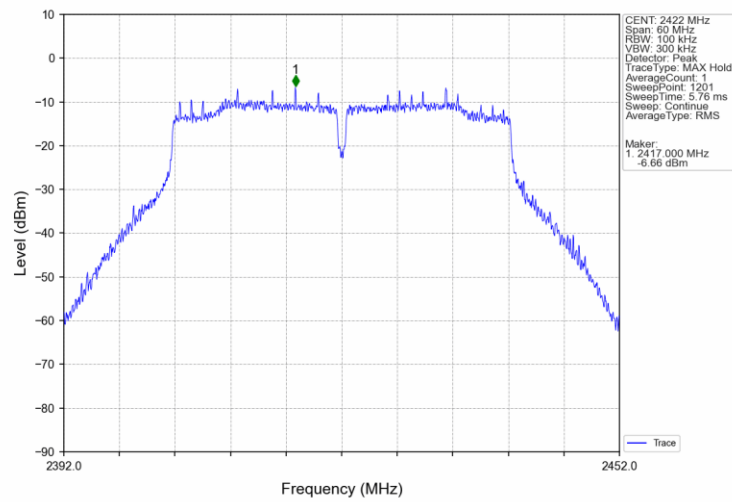
802.11n(HT20)_MCH_2437MHz_Ant1 (SISIO)_NTNV



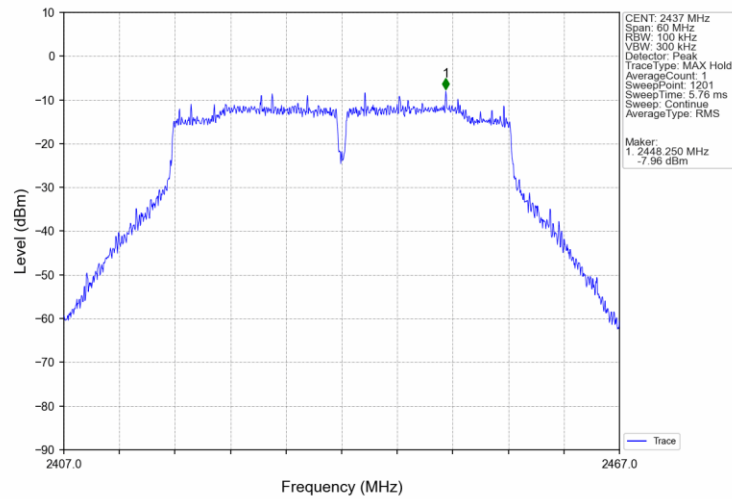
802.11n(HT20)_HCH_2462MHz_Ant1 (SISIO)_NTNV



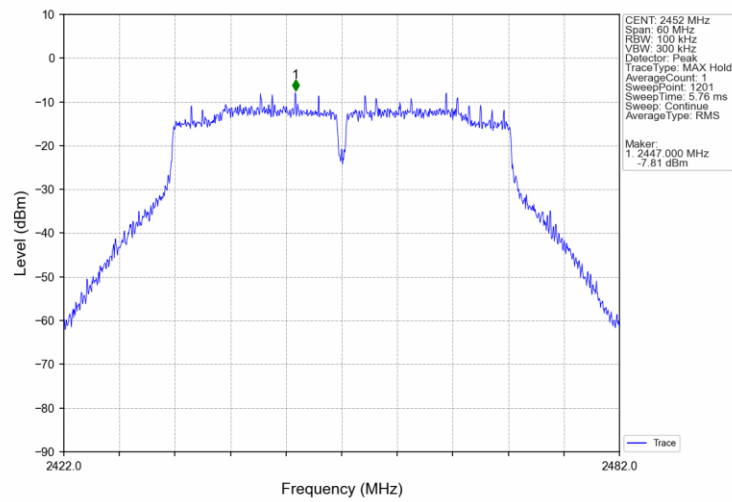
802.11n(HT40)_LCH_2422MHz_Ant1 (SISIO)_NTNV



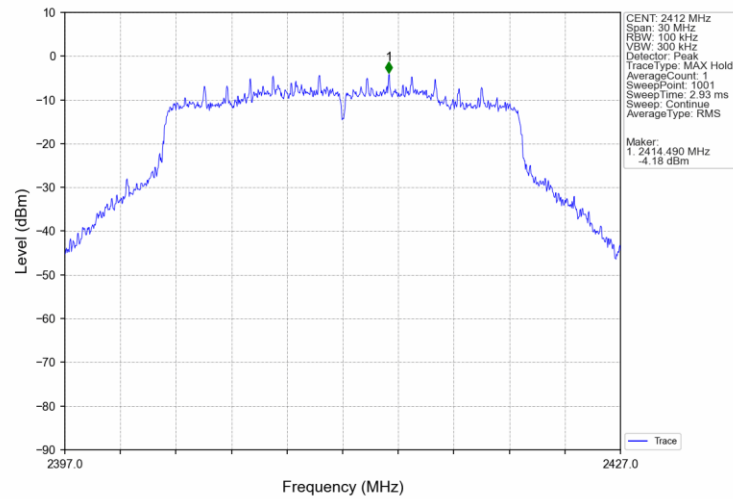
802.11n(HT40)_MCH_2437MHz_Ant1 (SISIO)_NTNV



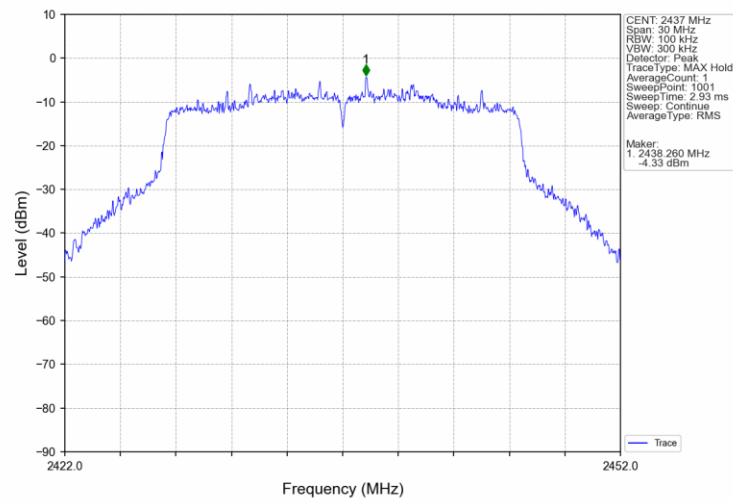
802.11n(HT40)_HCH_2452MHz_Ant1 (SISIO)_NTNV



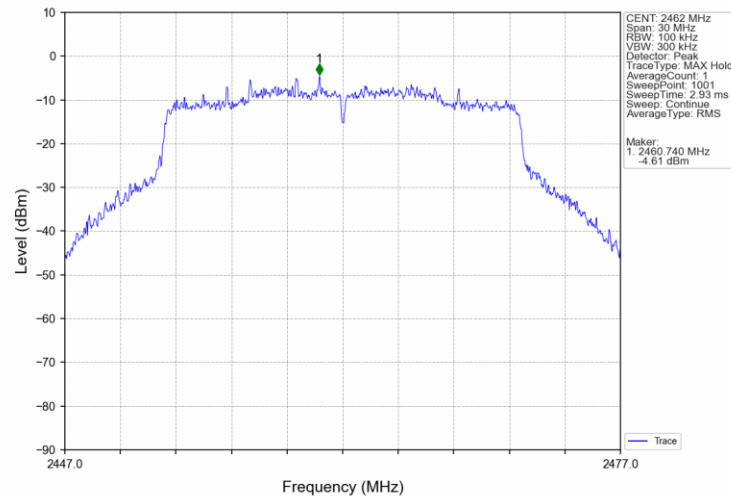
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISIO)_NTNV



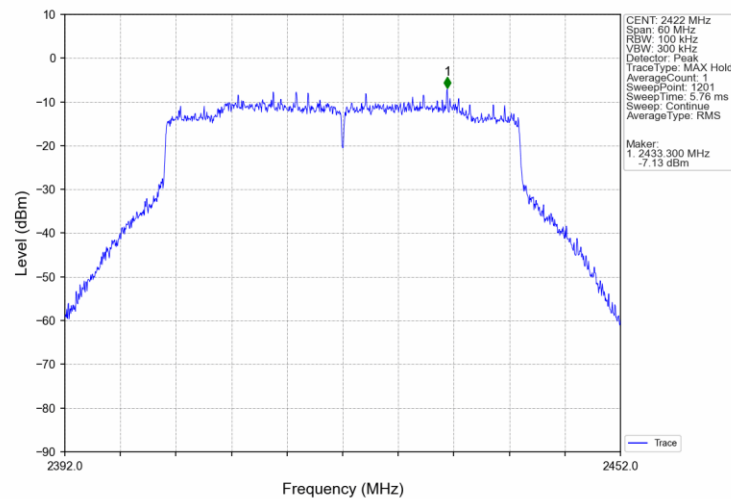
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISIO)_NTNV



802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (SISIO)_NTNV



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



802.11ax(HEW40)_MCH_2437MHz_SU / _Ant1 (SISIO)_NTNV