

Appendix RF test data for WIFI2.4G

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

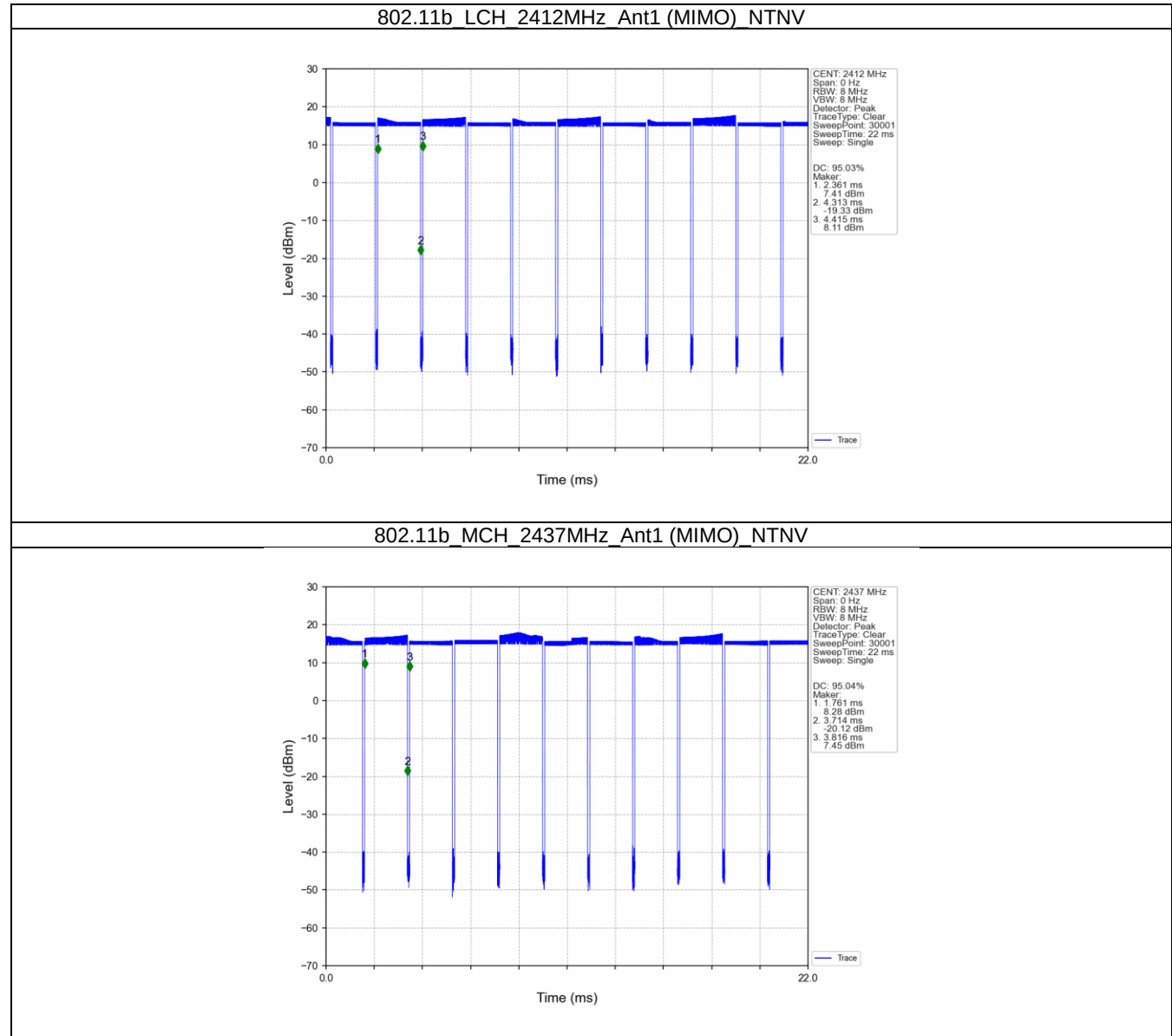
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	MIMO	2412	/	/	1.952	2.054	95.03	0.22	0.04
		2437	/	/	1.953	2.055	95.04	0.22	0.04
		2462	/	/	1.952	2.054	95.03	0.22	0.04
802.11g	MIMO	2412	/	/	0.337	0.439	76.77	1.15	0.05
		2437	/	/	0.337	0.439	76.77	1.15	0.06
		2462	/	/	0.336	0.438	76.71	1.15	0.08
802.11n (HT20)	MIMO	2412	/	/	0.328	0.430	76.28	1.18	0.07
		2437	/	/	0.329	0.431	76.33	1.17	0.05
		2462	/	/	0.329	0.431	76.33	1.17	0.04
802.11n (HT40)	MIMO	2422	/	/	0.052	0.155	33.55	4.74	0.09
		2437	/	/	0.176	0.278	63.31	1.99	0.04
		2452	/	/	0.176	0.279	63.08	2.00	0.08
802.11ax (HEW20)	MIMO	2412	SU	/	0.274	0.376	72.87	1.37	0.06
		2437	SU	/	0.274	0.376	72.87	1.37	0.04
		2462	SU	/	0.274	0.376	72.87	1.37	0.06
802.11ax (HEW40)	MIMO	2422	SU	/	0.165	0.417	39.57	4.03	0.03
		2437	SU	/	0.165	0.417	39.57	4.03	0.03
		2452	SU	/	0.165	0.417	39.57	4.03	0.03

1.1.2 Ant2

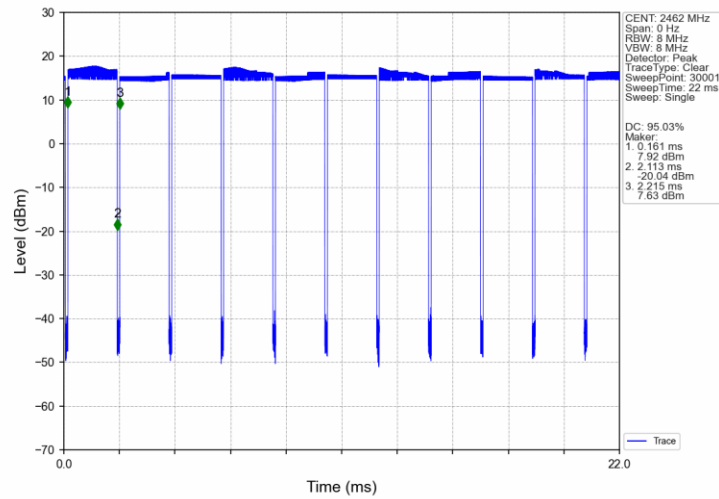
Ant2									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	MIMO	2412	/	/	1.953	2.054	95.08	0.22	0.04
		2437	/	/	1.953	2.055	95.04	0.22	0.04
		2462	/	/	1.953	2.055	95.04	0.22	0.04
802.11g	MIMO	2412	/	/	0.337	0.438	76.94	1.14	0.05
		2437	/	/	0.337	0.438	76.94	1.14	0.03
		2462	/	/	0.337	0.439	76.77	1.15	0.03
802.11n (HT20)	MIMO	2412	/	/	0.329	0.430	76.51	1.16	0.03
		2437	/	/	0.329	0.431	76.33	1.17	0.03
		2462	/	/	0.328	0.430	76.28	1.18	0.01
802.11n (HT40)	MIMO	2422	/	/	0.053	0.155	34.19	4.66	15.92
		2437	/	/	0.177	0.279	63.44	1.98	0.04
		2452	/	/	0.177	0.278	63.67	1.96	0.04
802.11ax (HEW20)	MIMO	2412	SU	/	0.274	0.377	72.68	1.39	0.04
		2437	SU	/	0.274	0.376	72.87	1.37	0.03
		2462	SU	/	0.274	0.376	72.87	1.37	0.04
802.11ax (HEW40)	MIMO	2422	SU	/	0.165	0.417	39.57	4.03	0.04
		2437	SU	/	0.165	0.417	39.57	4.03	0.03
		2452	SU	/	0.165	0.418	39.47	4.04	0.03

1.2 Test Graph

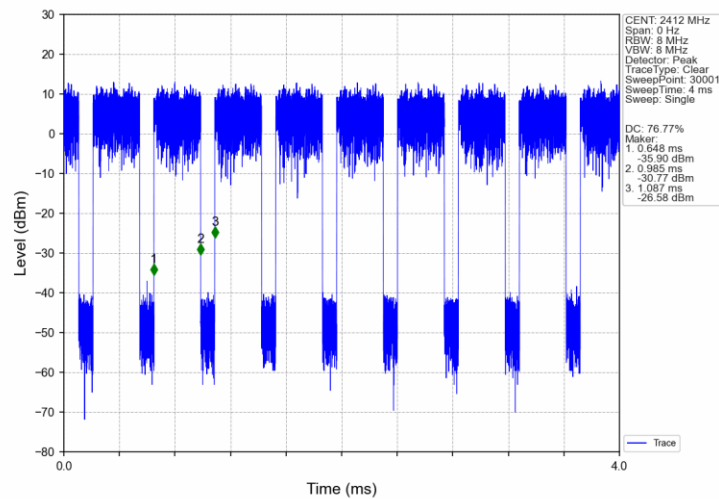
1.2.1 Ant1



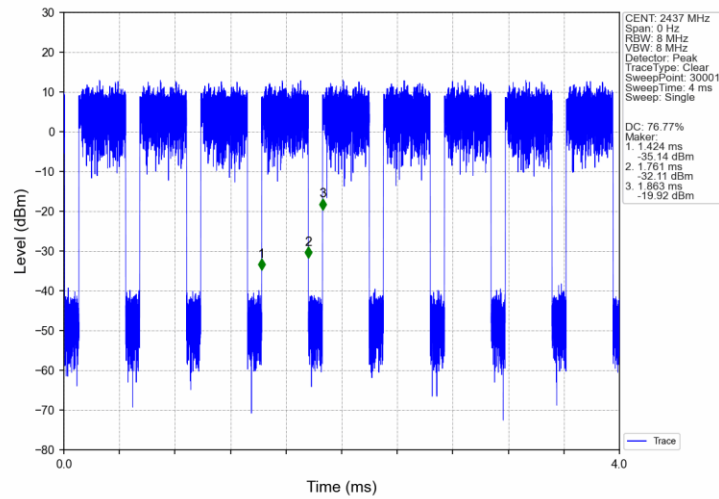
802.11b HCH 2462MHz Ant1 (MIMO) NTN



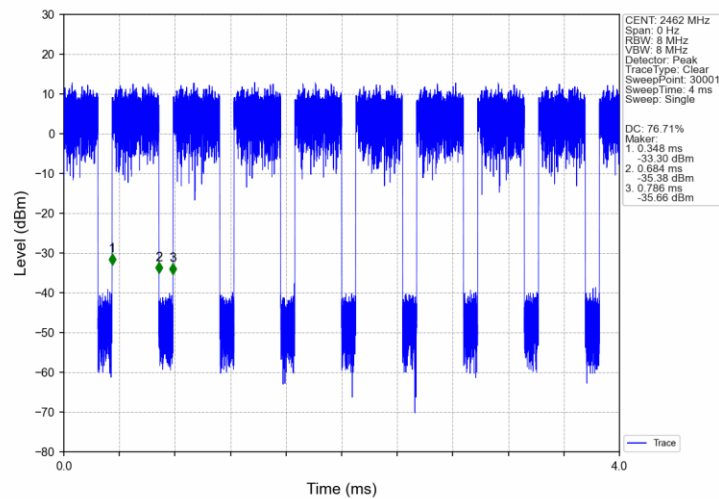
802.11g LCH 2412MHz Ant1 (MIMO) NTN



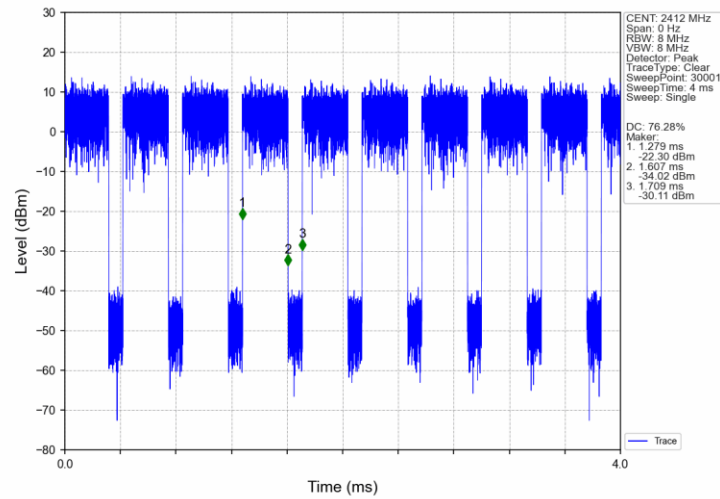
802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



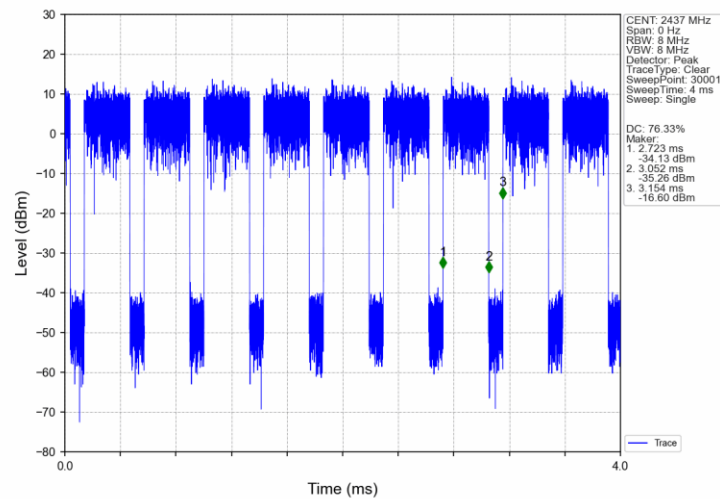
802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



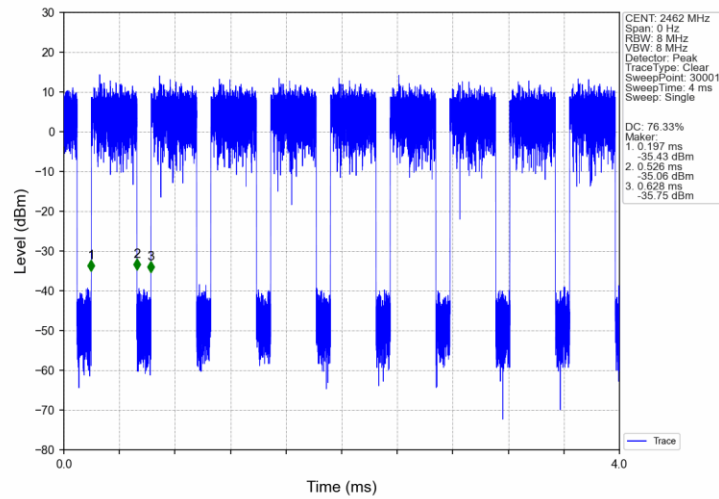
802.11n(HT20)_ LCH_ 2412MHz_ Ant1 (MIMO)_ NTNV



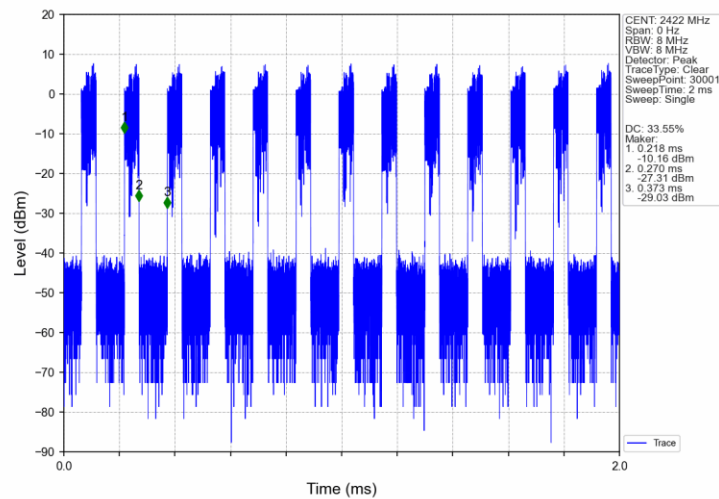
802.11n(HT20)_ MCH_ 2437MHz_ Ant1 (MIMO)_ NTNV



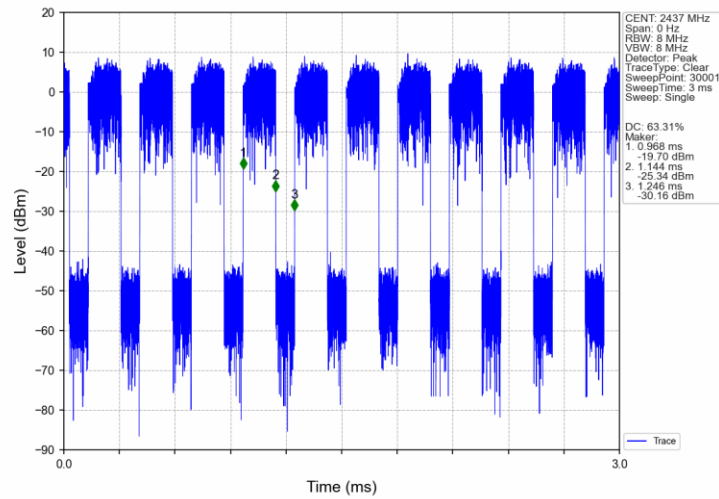
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTNv



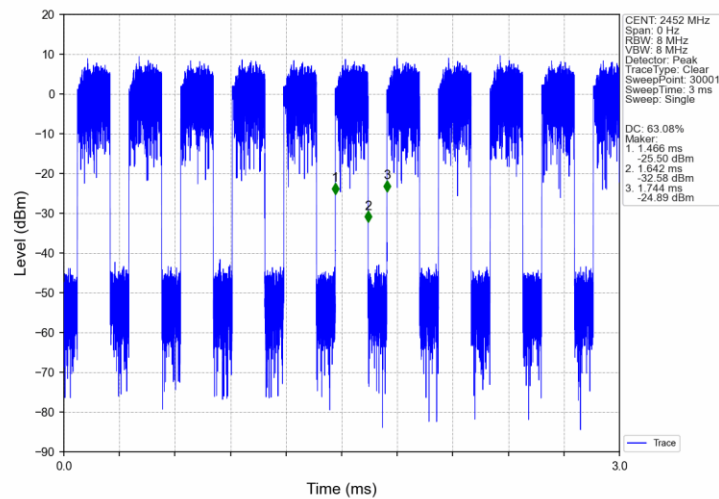
802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTNv



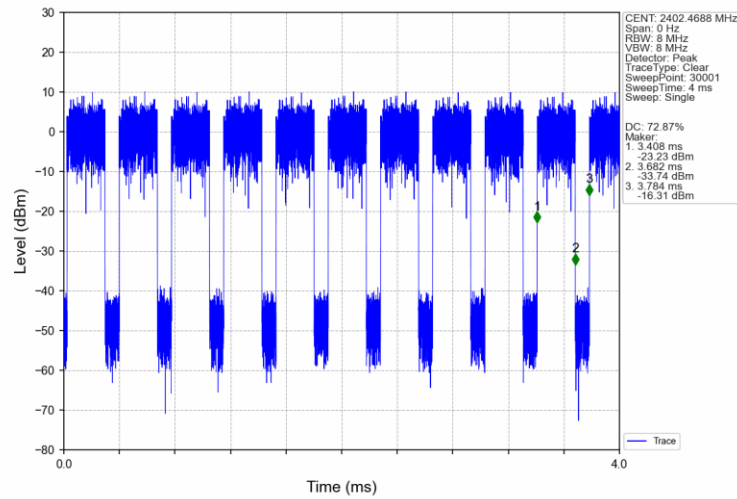
802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNV



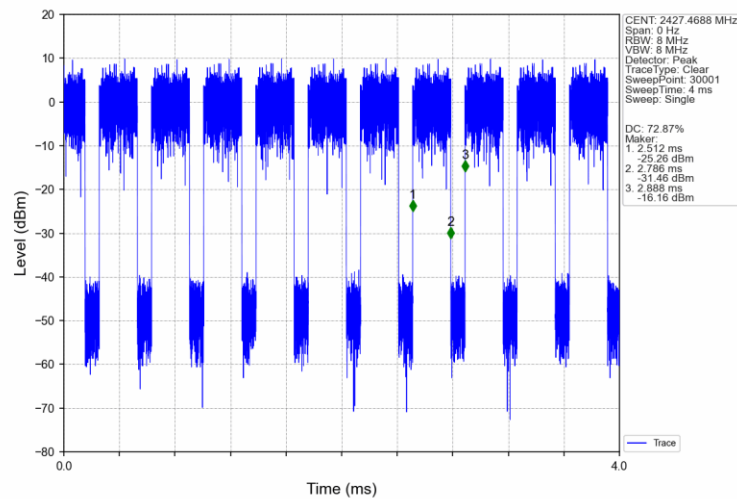
802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



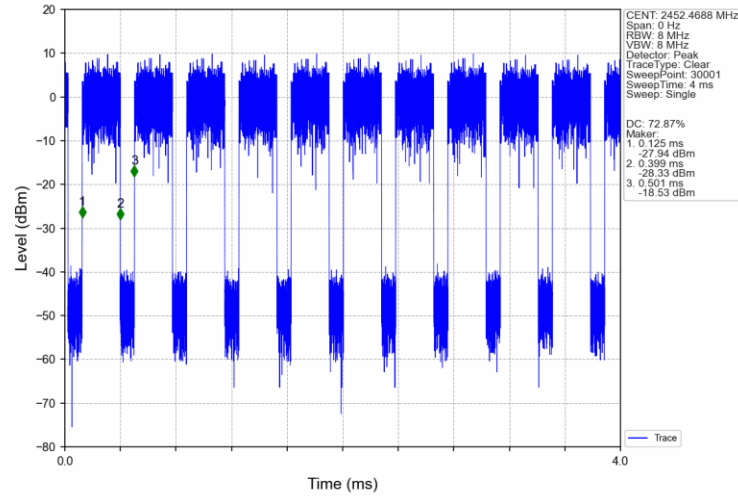
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (MIMO) NTN



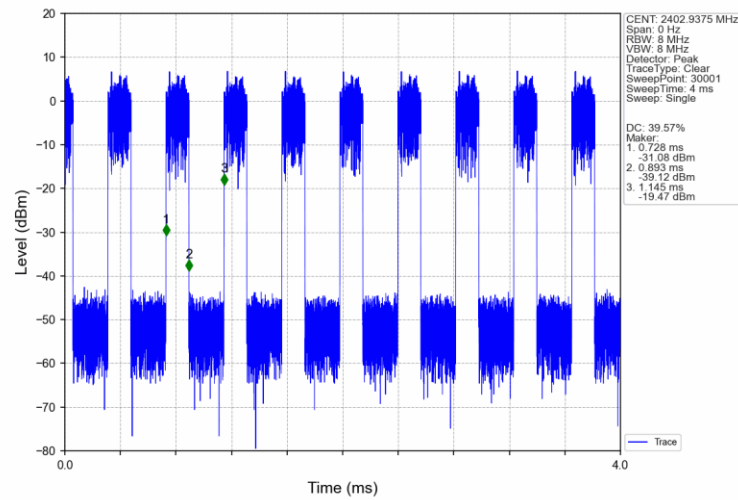
802.11ax(HEW20) MCH 2437MHz SU / Ant1 (MIMO) NTN



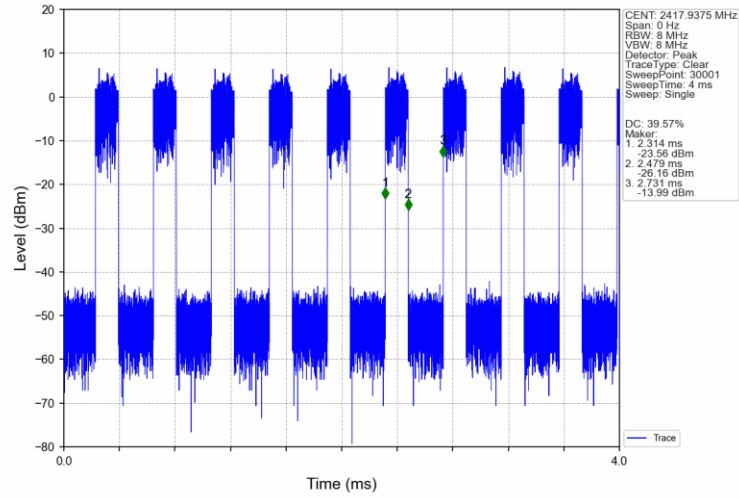
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (MIMO)_NTNV



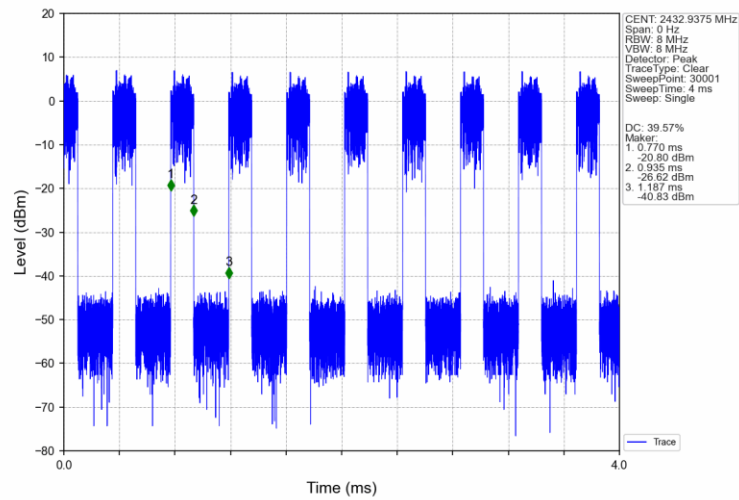
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (MIMO)_NTNV



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

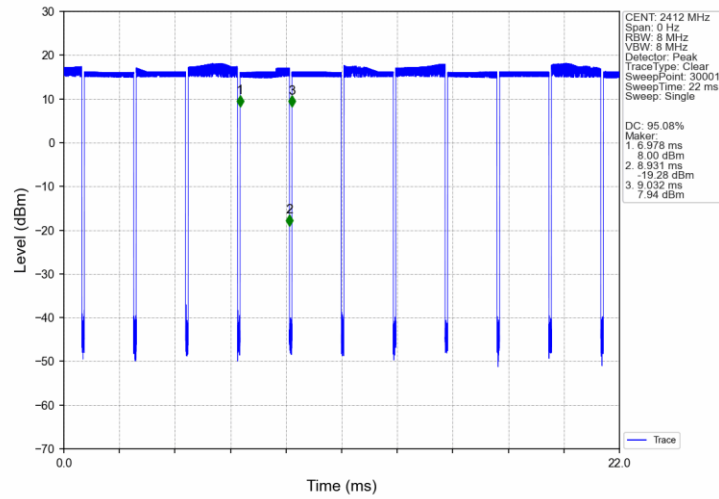


802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (MIMO)_NTNV

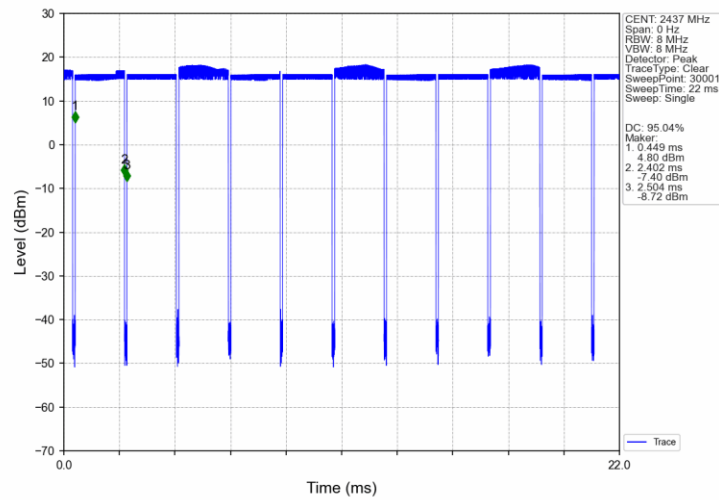


1.2.2 Ant2

802.11b_LCH_2412MHz_Ant2 (MIMO)_NTNV

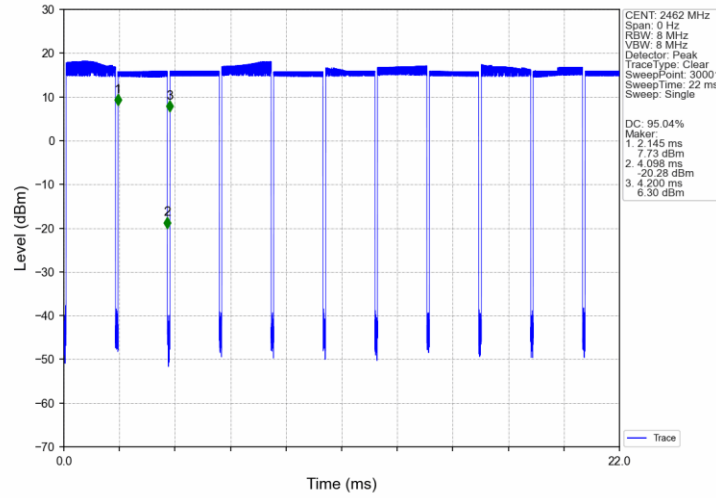


802.11b_MCH_2437MHz_Ant2 (MIMO)_NTNV

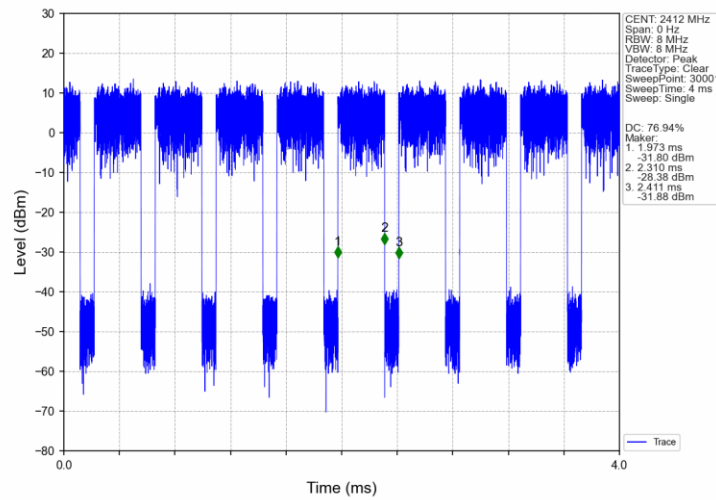




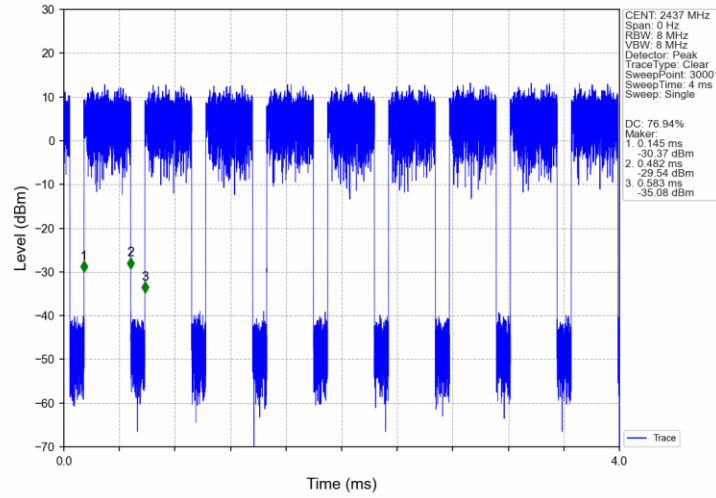
802.11b_HCH_2462MHz_Ant2 (MIMO)_NTNV



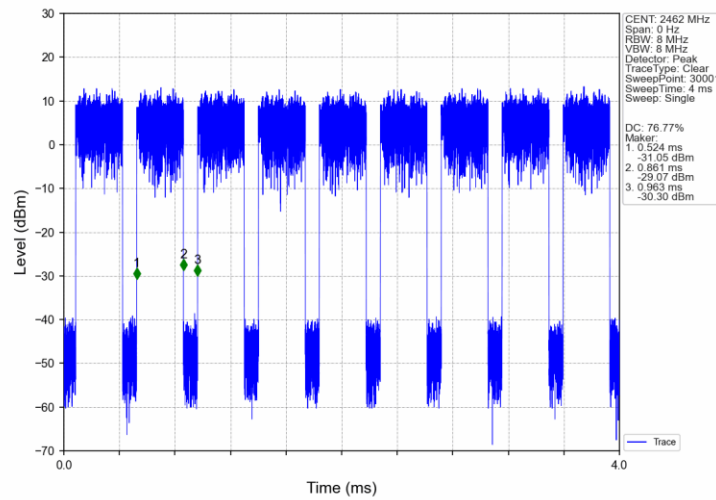
802.11g_LCH_2412MHz_Ant2 (MIMO)_NTNV



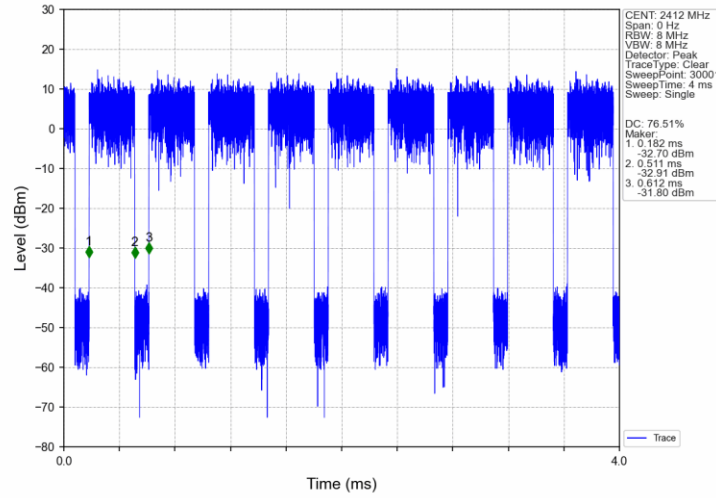
802.11g_MCH_2437MHz_Ant2 (MIMO)_NTNV



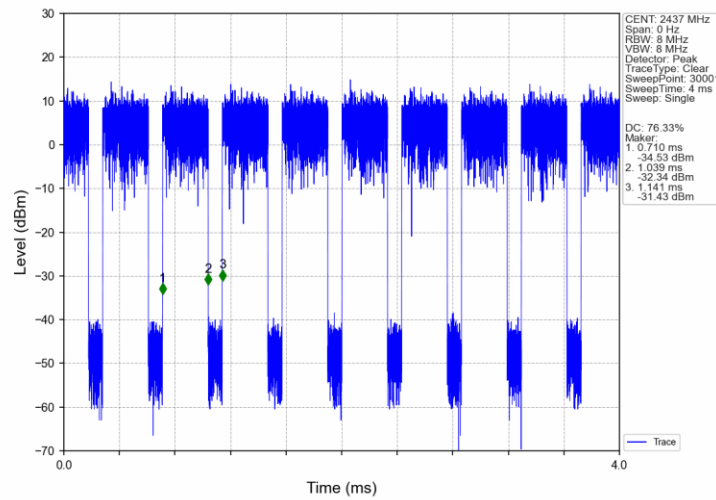
802.11g_HCH_2462MHz_Ant2 (MIMO)_NTNV



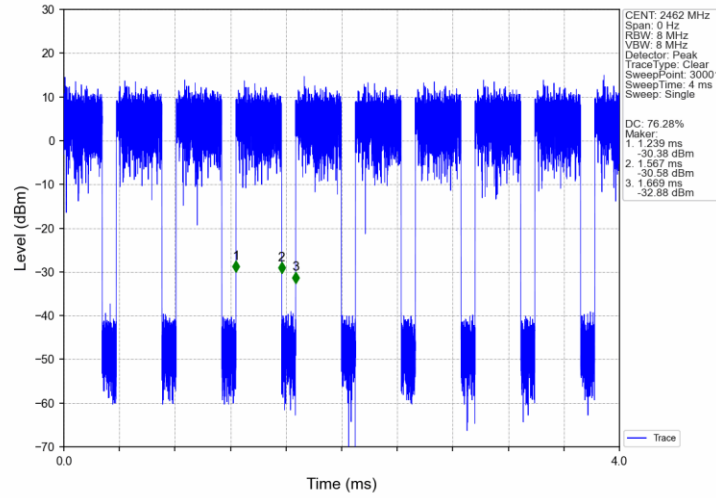
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



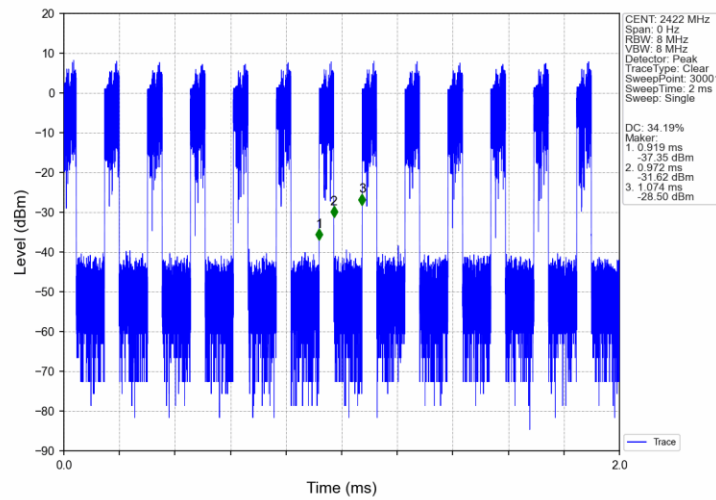
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



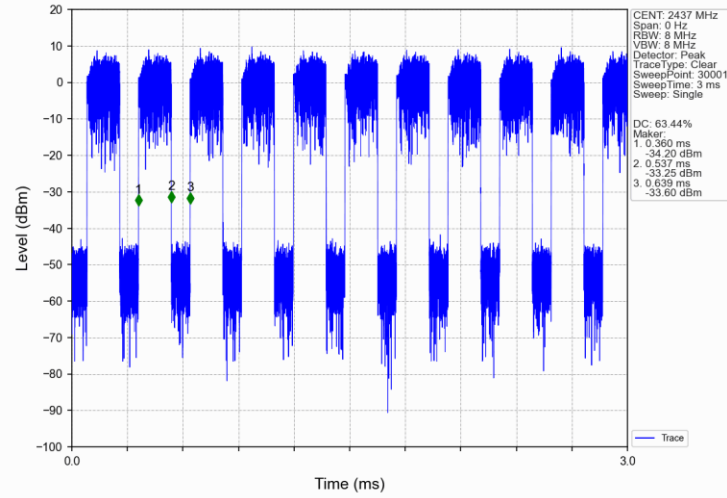
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



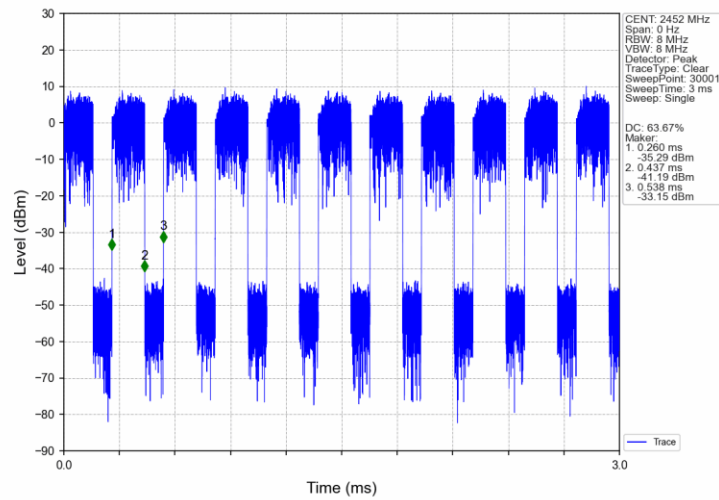
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV

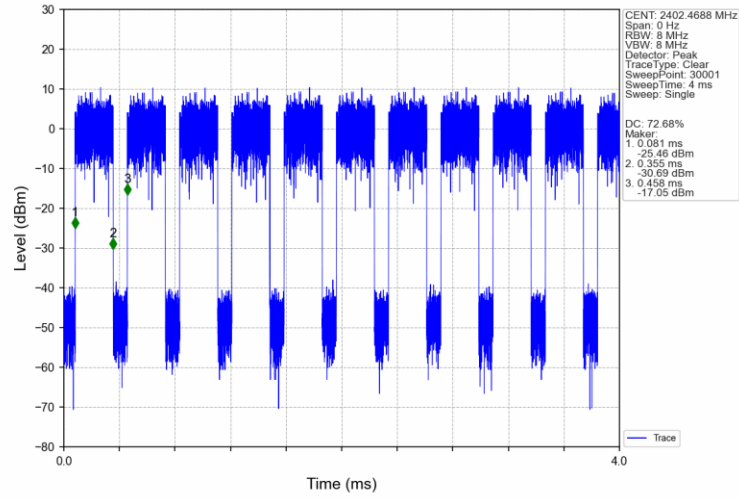


802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV

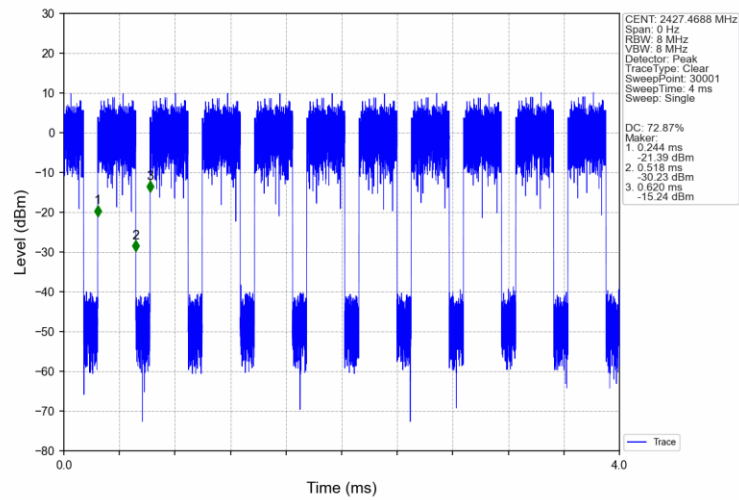




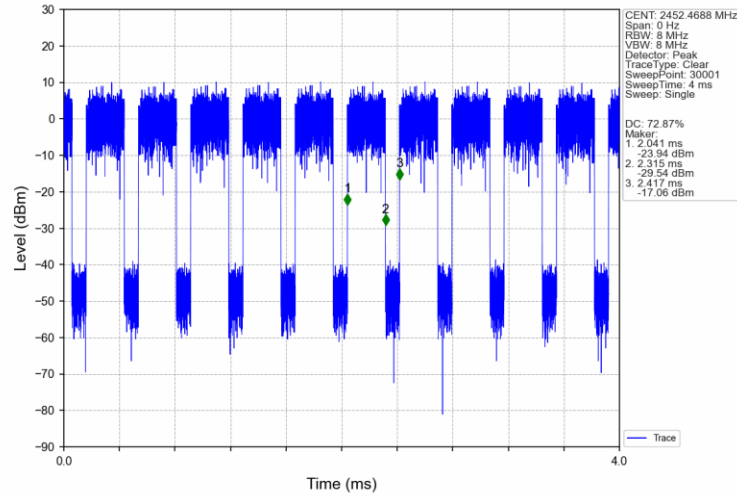
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant2 (MIMO)_NTNV



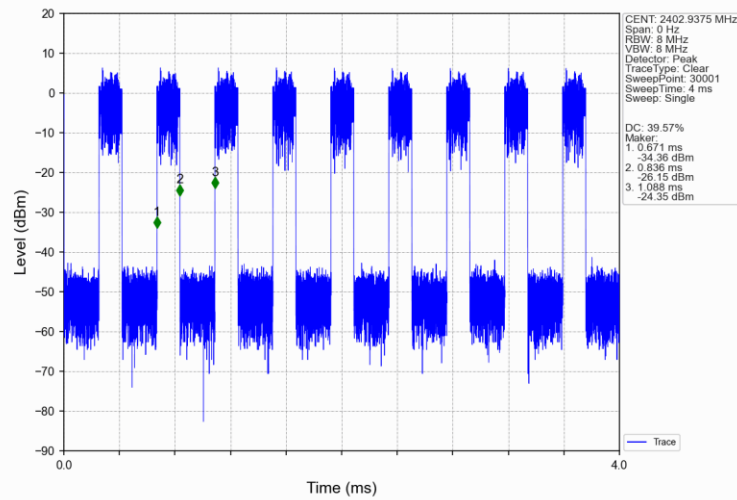
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant2 (MIMO)_NTNV



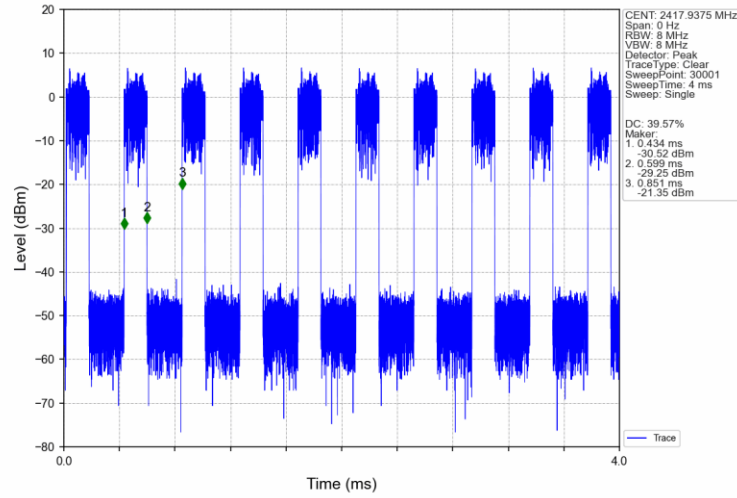
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant2 (MIMO)_NTNV



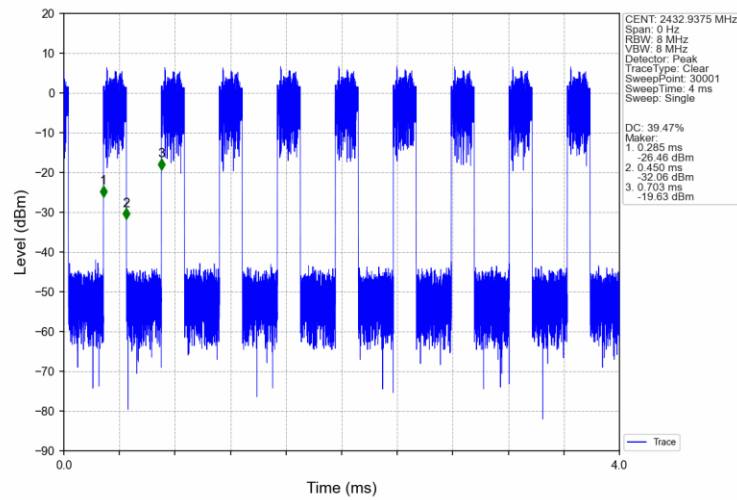
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant2 (MIMO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU / _Ant2 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU / _Ant2 (MIMO)_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	MIMO	2412	/	/	1	14.947	/	Pass
		2437	/	/	1	14.878	/	Pass
		2462	/	/	1	14.901	/	Pass
802.11g	MIMO	2412	/	/	1	16.335	/	Pass
		2437	/	/	1	16.326	/	Pass
		2462	/	/	1	16.338	/	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.504	/	Pass
		2437	/	/	1	17.506	/	Pass
		2462	/	/	1	17.507	/	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.368	/	Pass
		2437	/	/	1	36.350	/	Pass
		2452	/	/	1	36.336	/	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	18.895	/	Pass
		2437	SU	/	1	18.882	/	Pass
		2462	SU	/	1	18.881	/	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	37.920	/	Pass
		2437	SU	/	1	37.910	/	Pass
		2452	SU	/	1	37.891	/	Pass

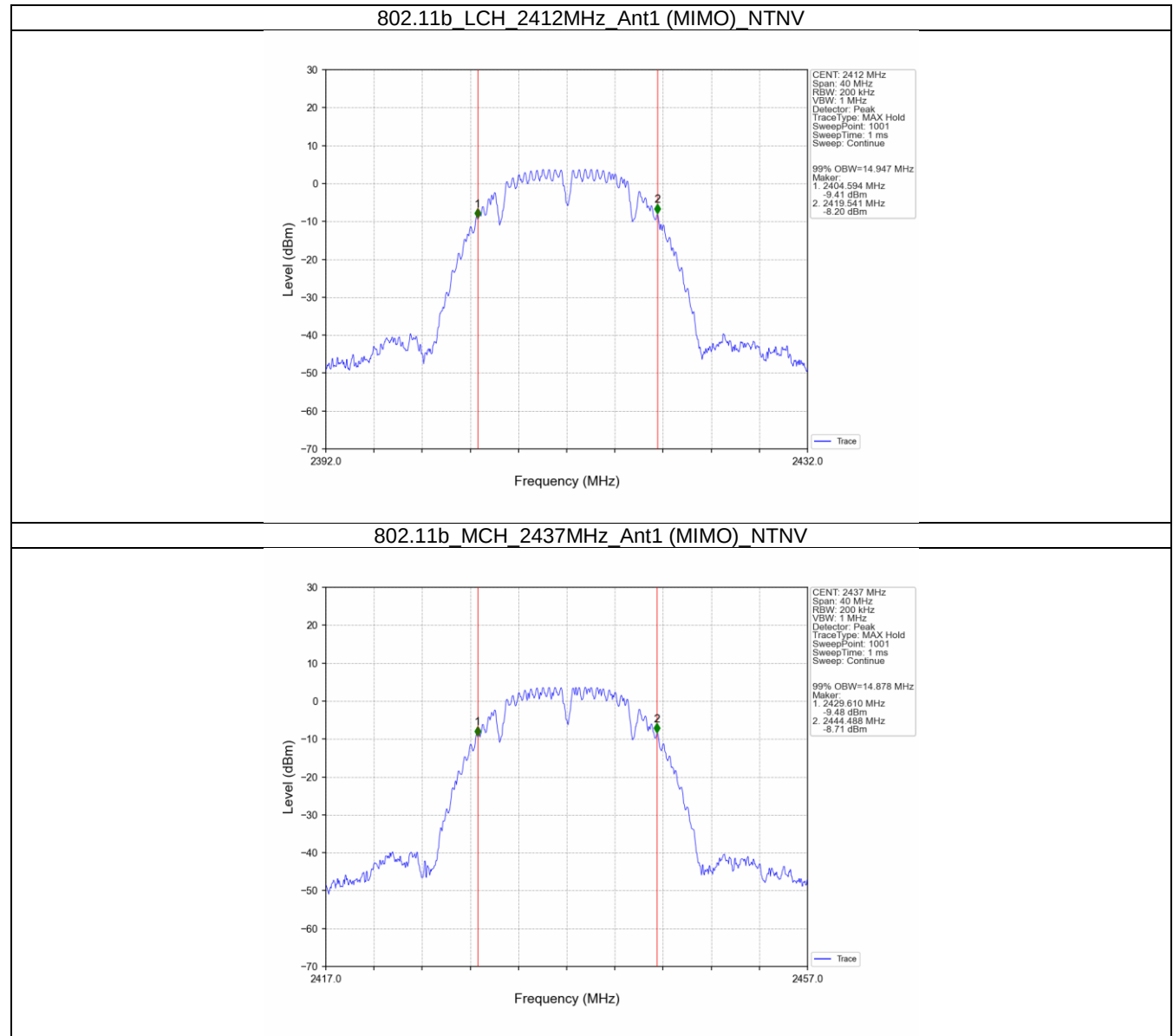
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	MIMO	2412	/	/	1	11.185	≥ 0.5	Pass
		2437	/	/	1	12.060	≥ 0.5	Pass
		2462	/	/	1	11.156	≥ 0.5	Pass
802.11g	MIMO	2412	/	/	1	16.390	≥ 0.5	Pass
		2437	/	/	1	16.402	≥ 0.5	Pass
		2462	/	/	1	16.393	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.469	≥ 0.5	Pass
		2437	/	/	1	17.567	≥ 0.5	Pass
		2462	/	/	1	17.518	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.344	≥ 0.5	Pass
		2437	/	/	1	36.488	≥ 0.5	Pass
		2452	/	/	1	36.491	≥ 0.5	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	19.026	≥ 0.5	Pass
		2437	SU	/	1	18.996	≥ 0.5	Pass
		2462	SU	/	1	18.944	≥ 0.5	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	37.502	≥ 0.5	Pass
		2437	SU	/	1	37.180	≥ 0.5	Pass
		2452	SU	/	1	37.210	≥ 0.5	Pass

260417017FW3M1

2.2 Test Graph

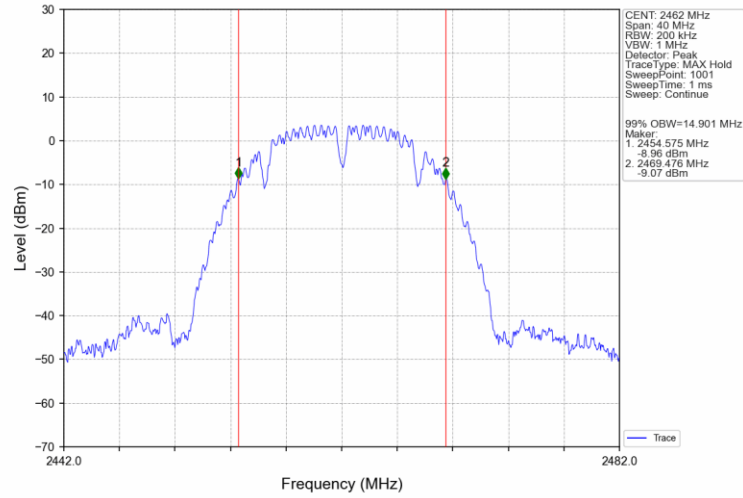
2.2.1 OBW



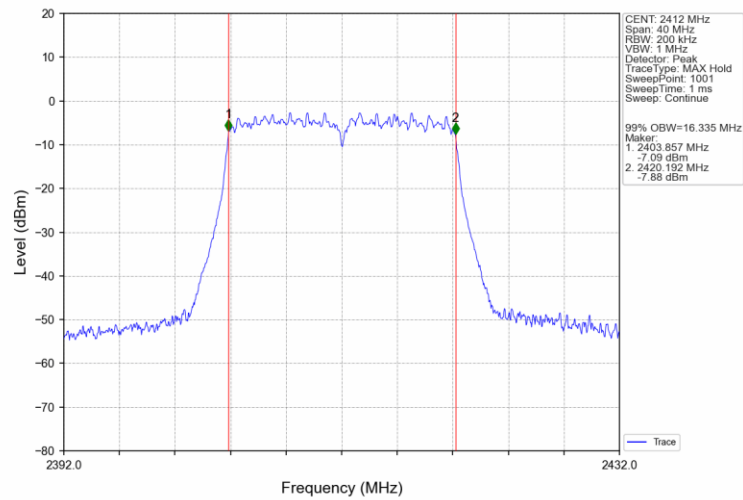


260417017FW3M1

802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



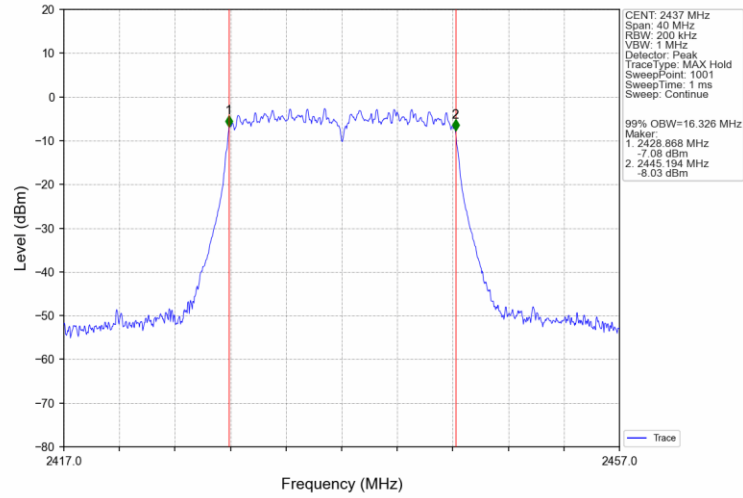
802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



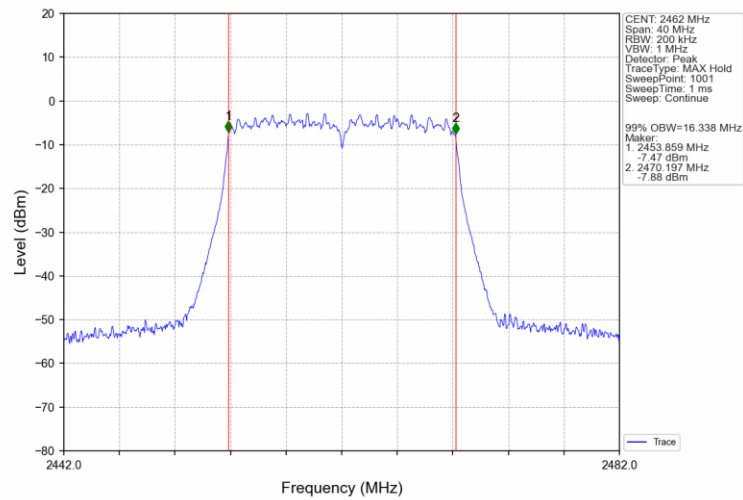


260417017FW3M1

802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV

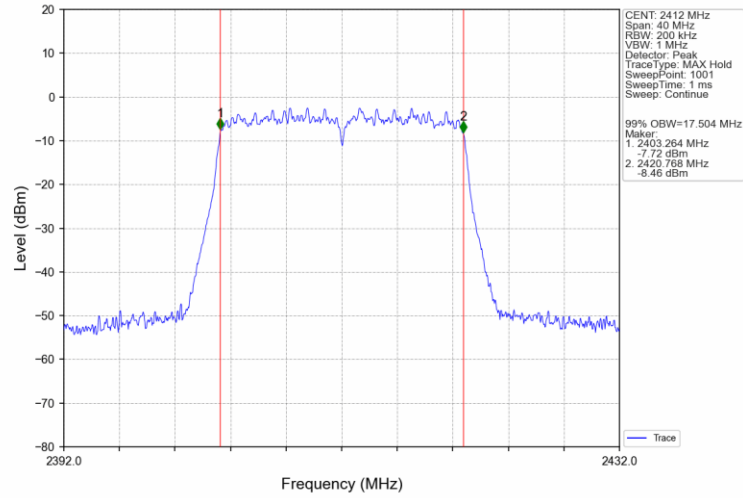


802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV

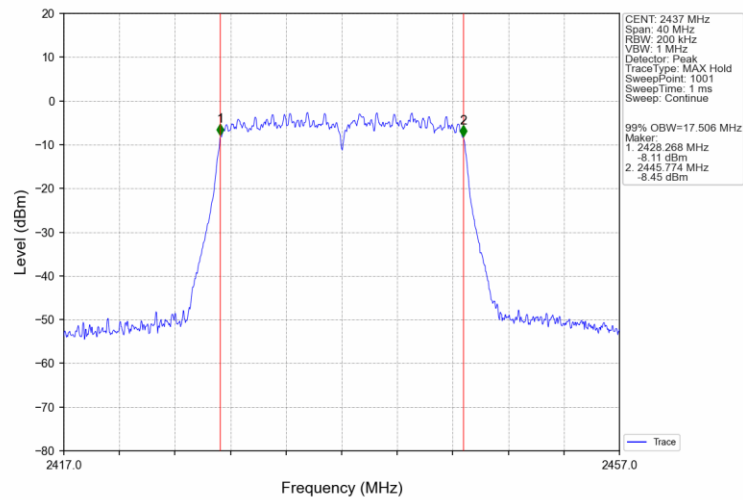




802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



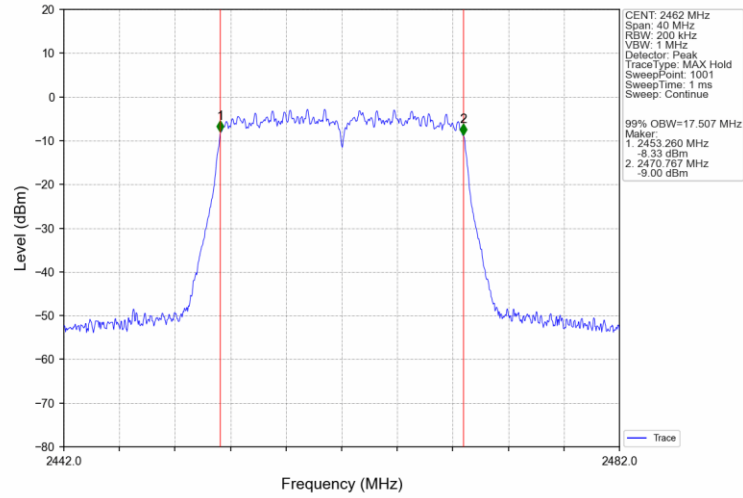
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



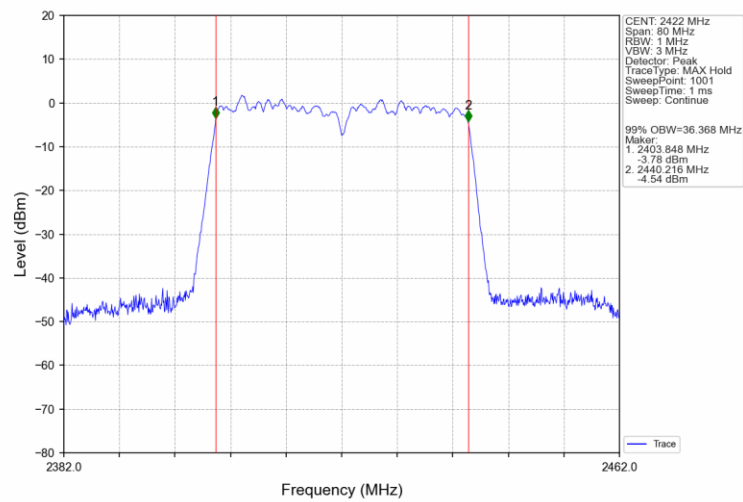


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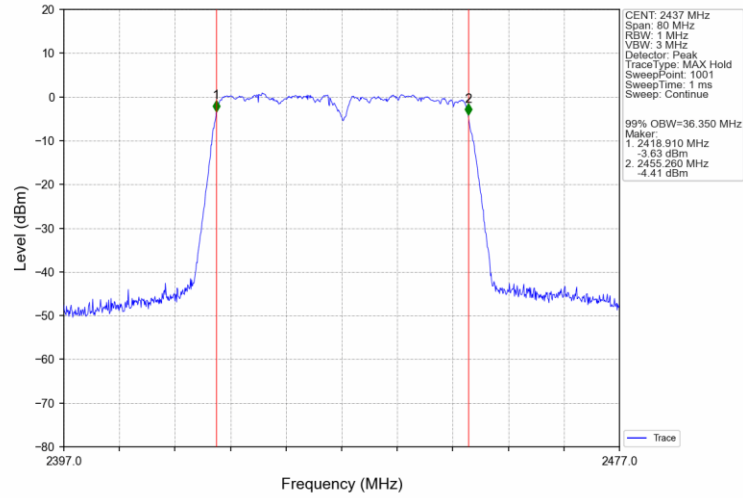
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



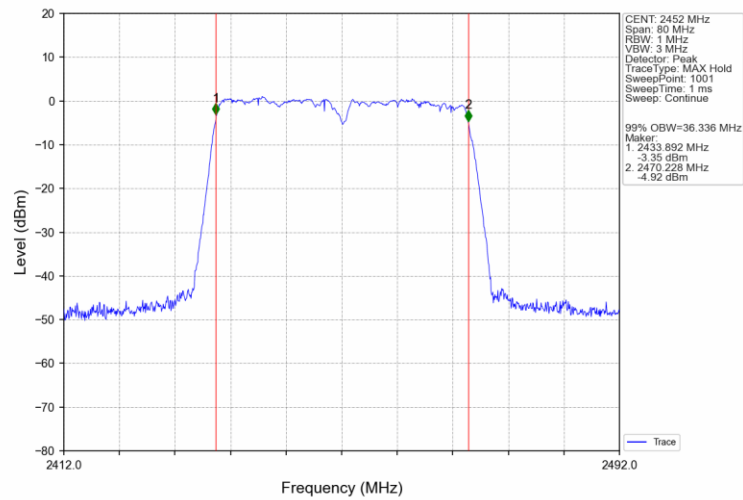
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



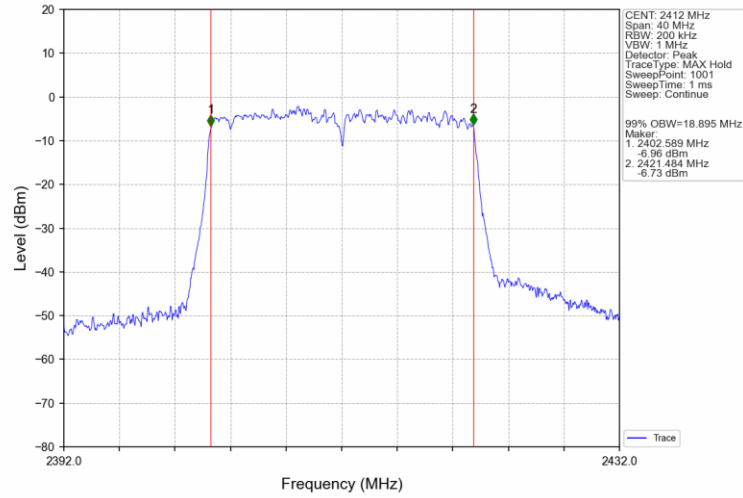
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



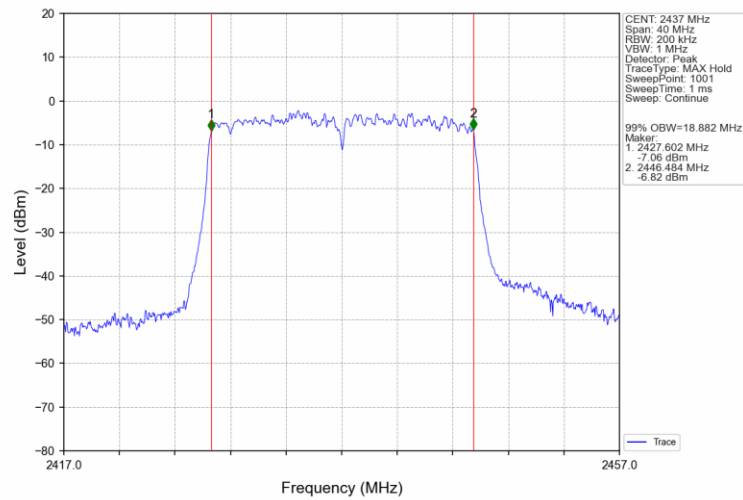


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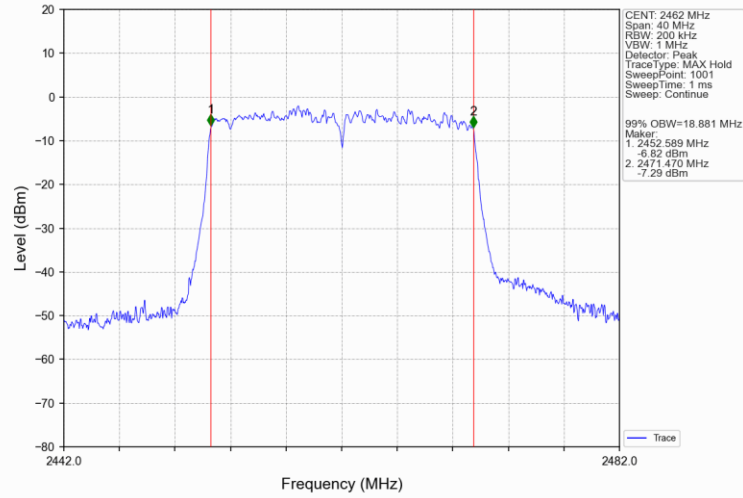
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (MIMO)_NTNV



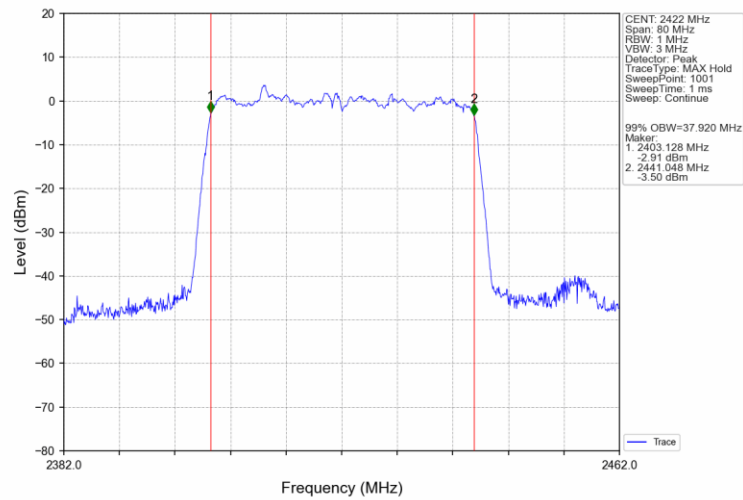
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (MIMO)_NTNV



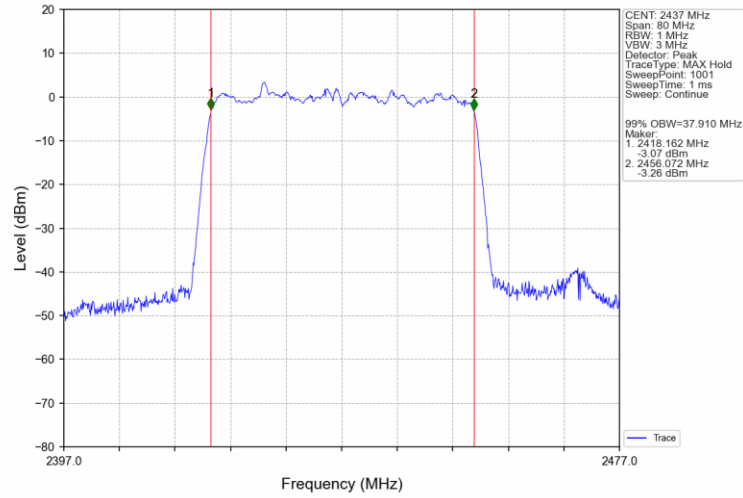
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (MIMO)_NTNV



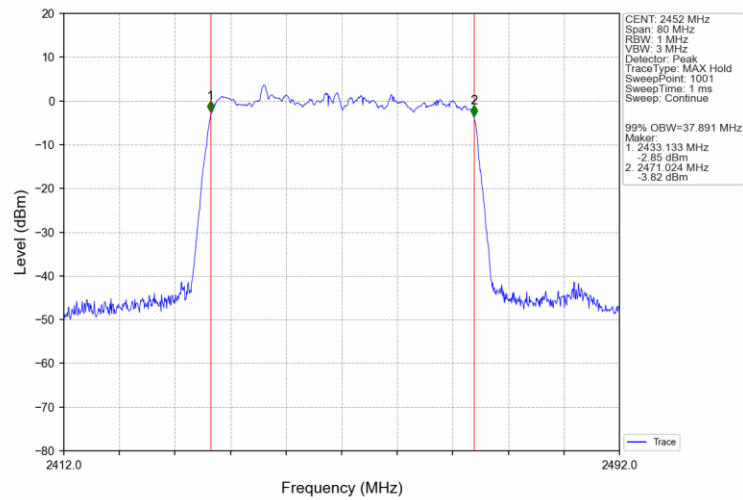
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (MIMO)_NTNV



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

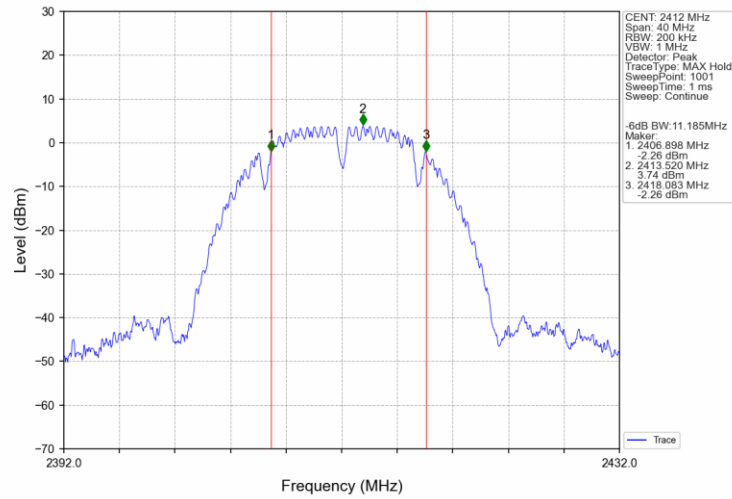


802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (MIMO)_NTNV

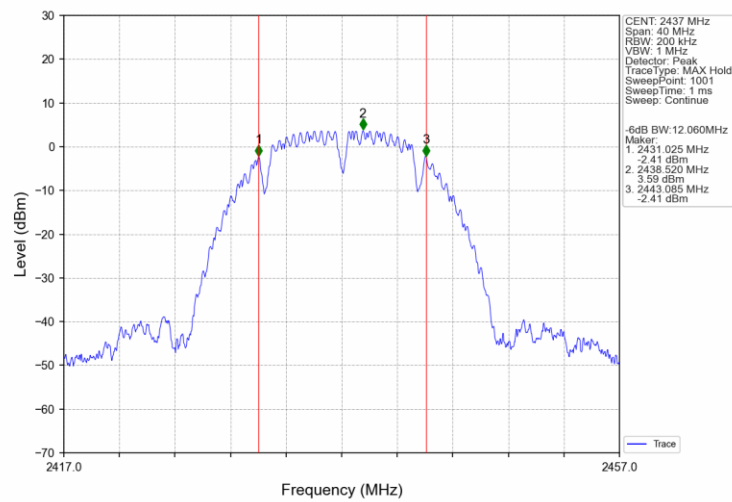


2.2.2 6dB BW

802.11b_LCH_2412MHz_Ant1 (MIMO)_NTNV

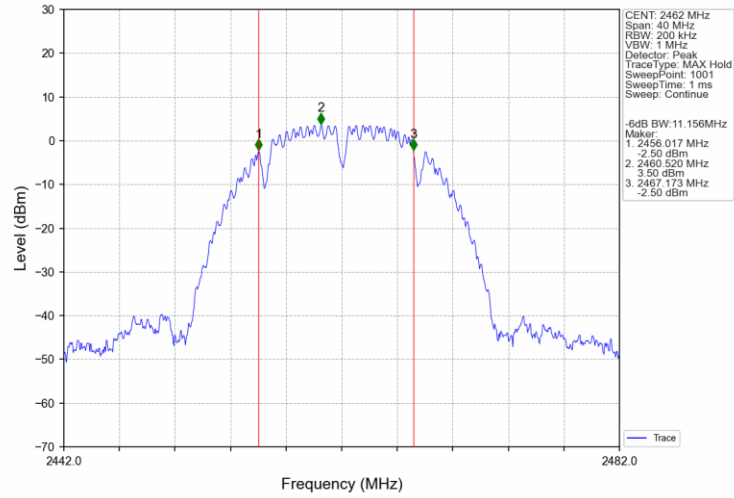


802.11b_MCH_2437MHz_Ant1 (MIMO)_NTNV

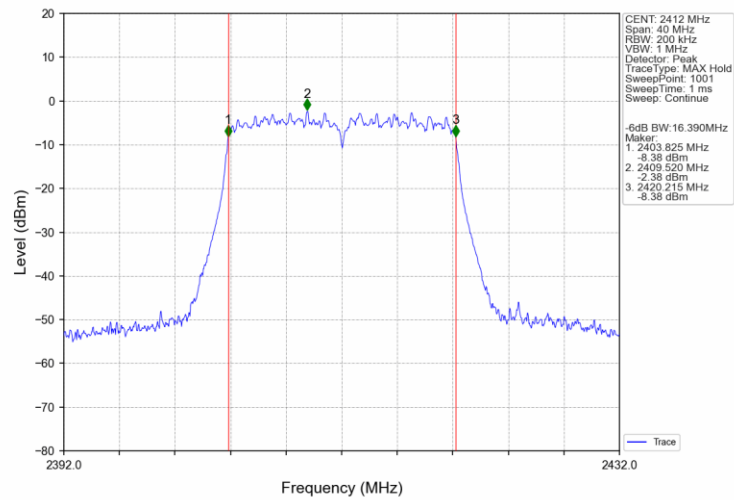




802.11b_HCH_2462MHz_Ant1 (MIMO)_NTNV



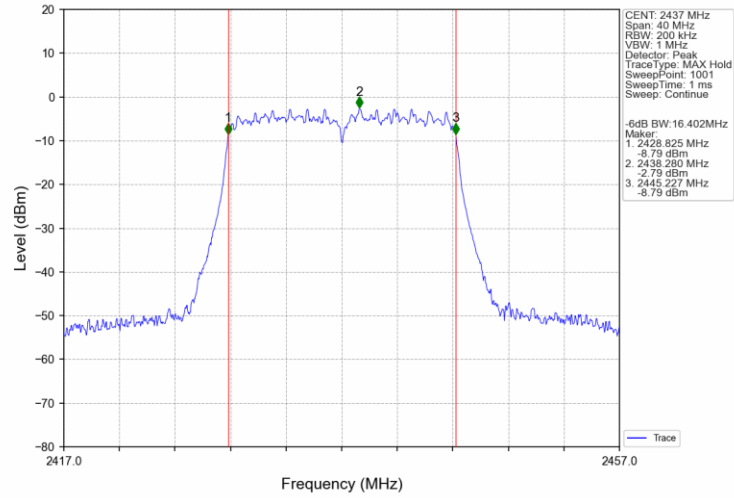
802.11g_LCH_2412MHz_Ant1 (MIMO)_NTNV



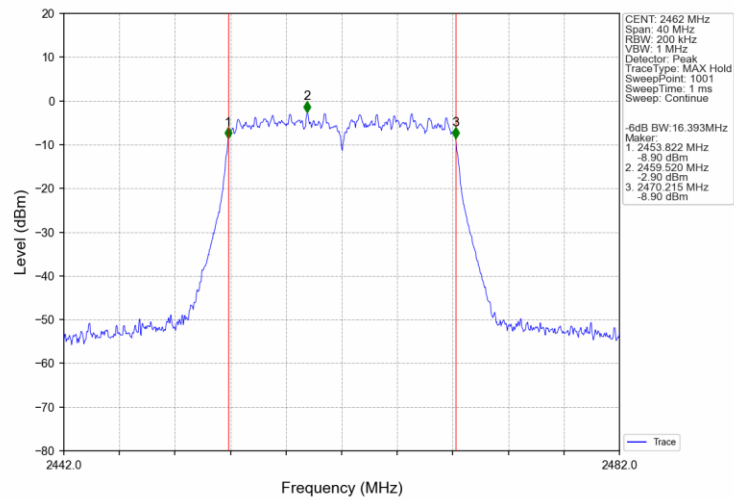


260417017FW3M1

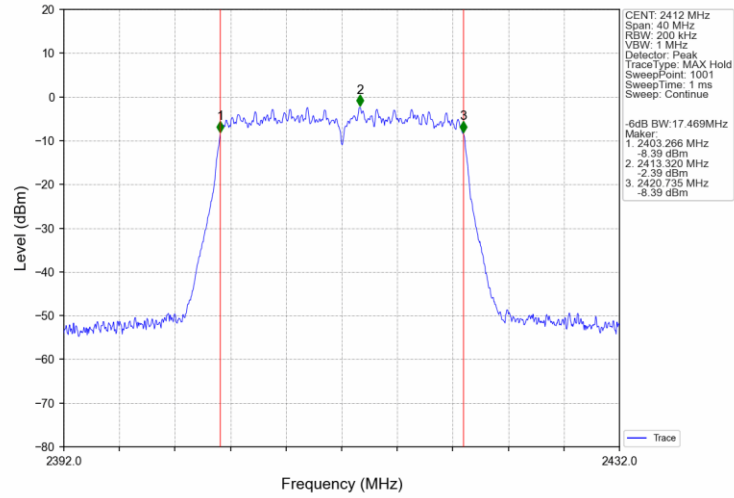
802.11g_MCH_2437MHz_Ant1 (MIMO)_NTNV



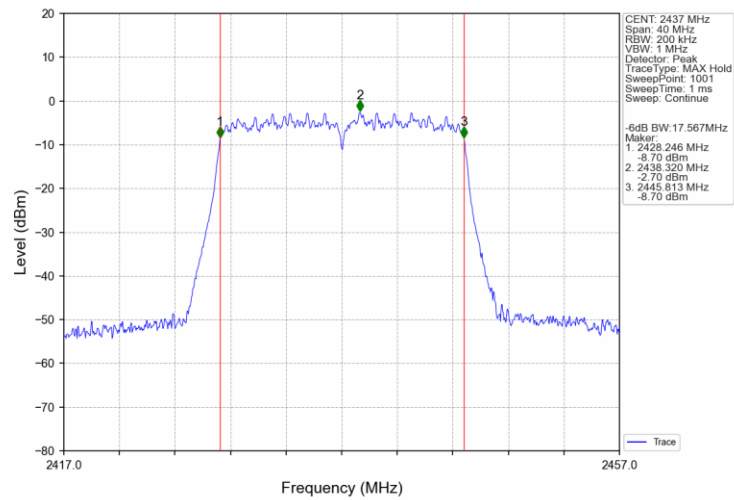
802.11g_HCH_2462MHz_Ant1 (MIMO)_NTNV



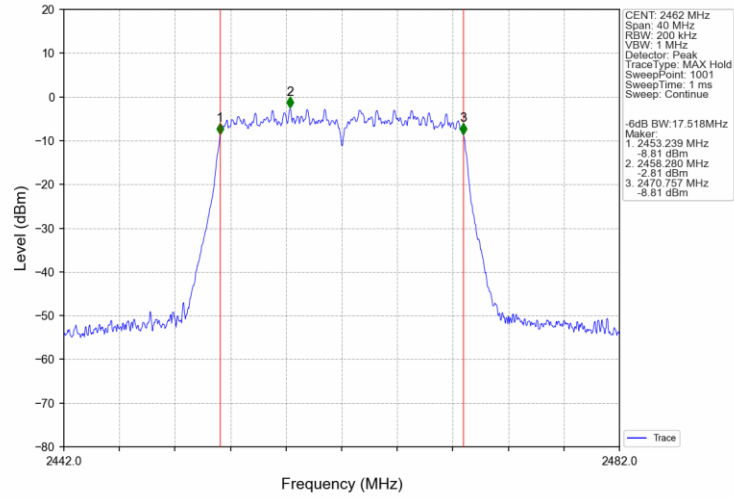
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



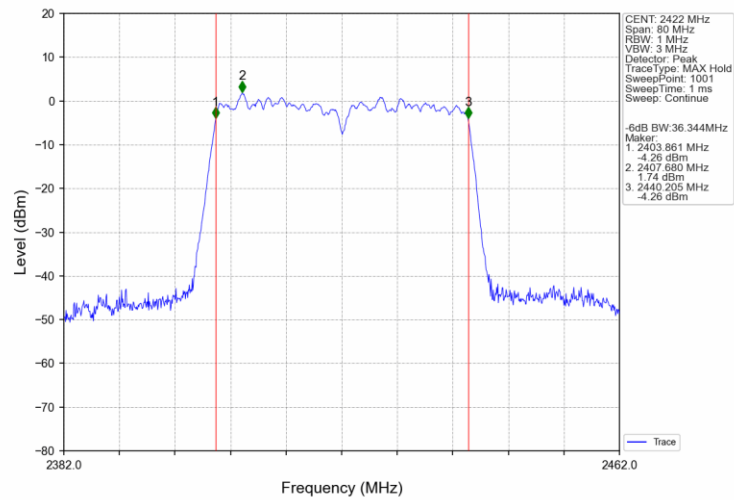
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



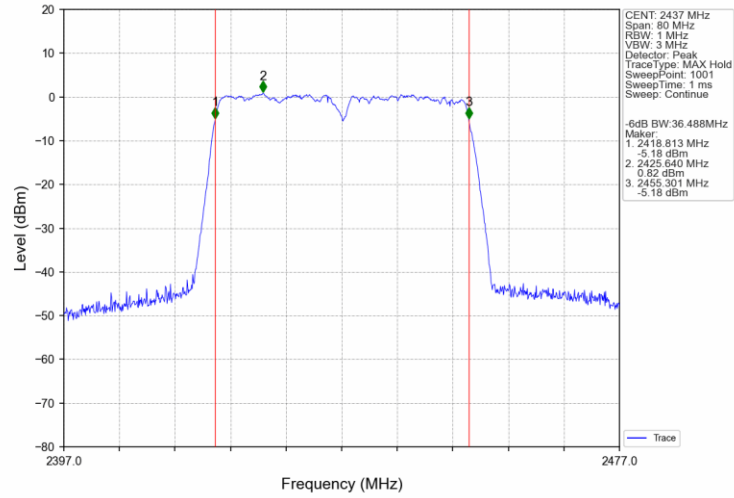
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



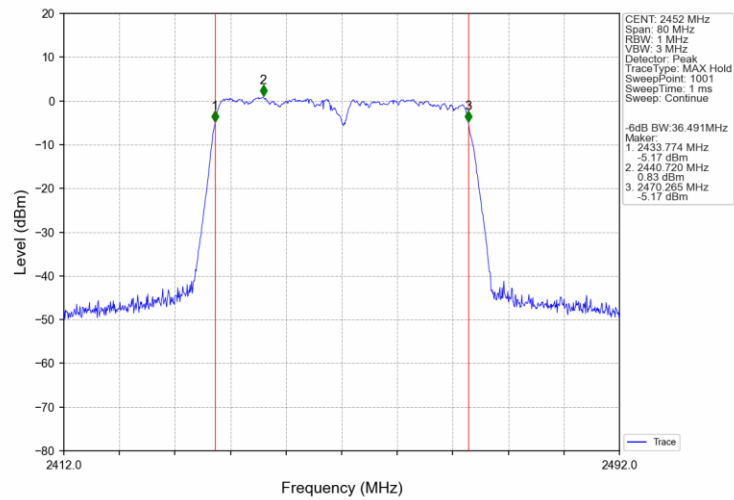
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



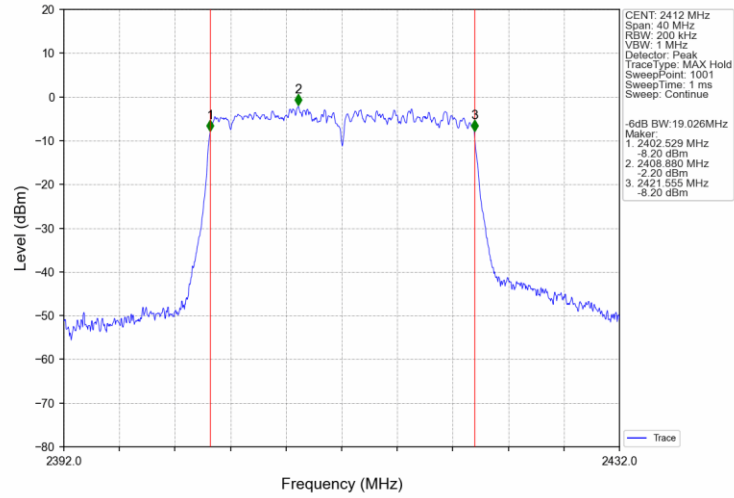
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



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



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

