

RF Test Data

For

Project No.:	DLE-260310043
Client:	Quantum Creations LLC
Manufacturer:	QUTHC Limited
Product Description:	Ally Pro Mini PC
Model Number:	APS0TW
Test Engineer:	Alisa Song
Test Date:	2026-03-24

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Frequency Error	Pass

1. Duty Cycle

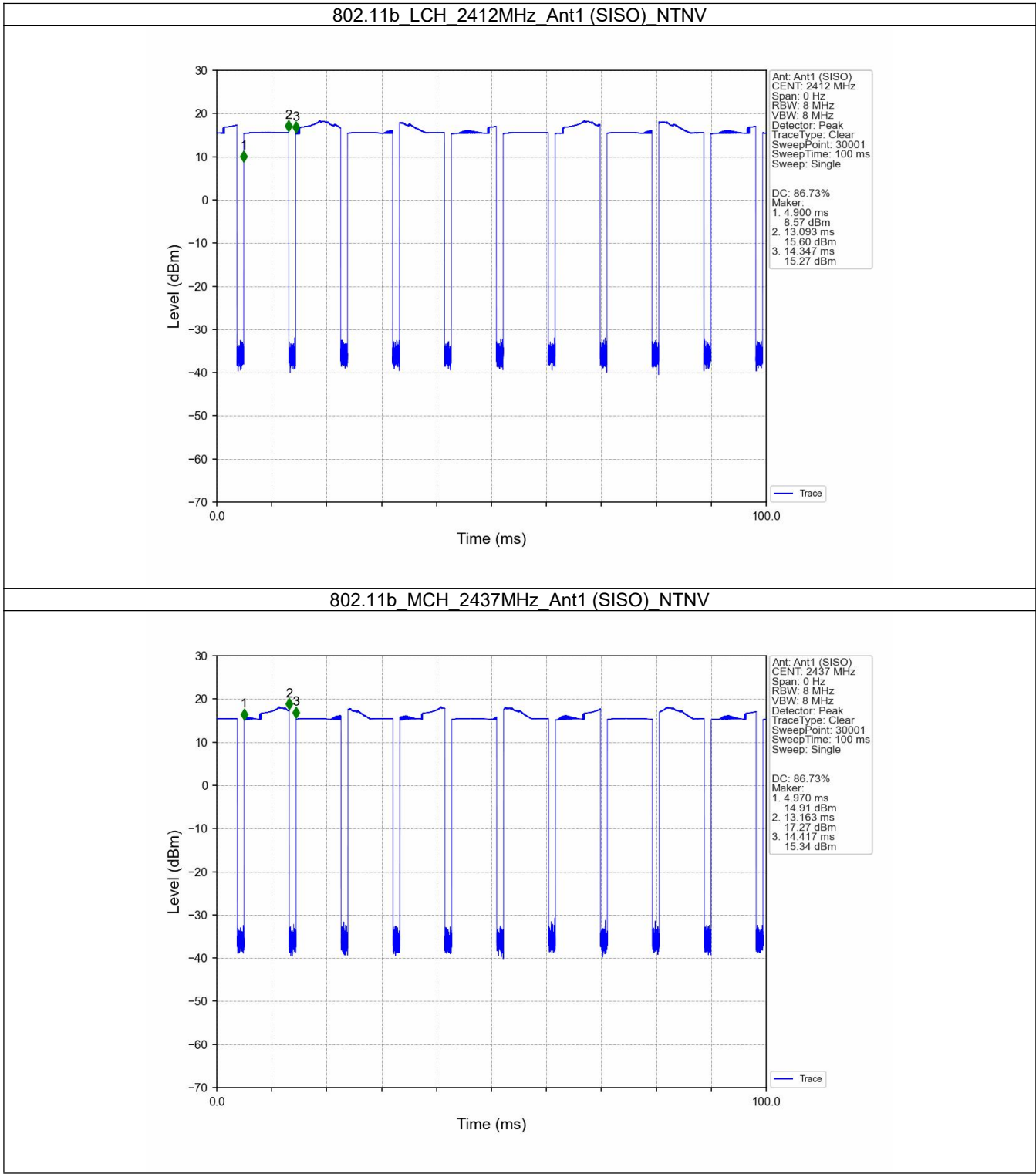
1.1 Test Result

1.1.1 Ant1

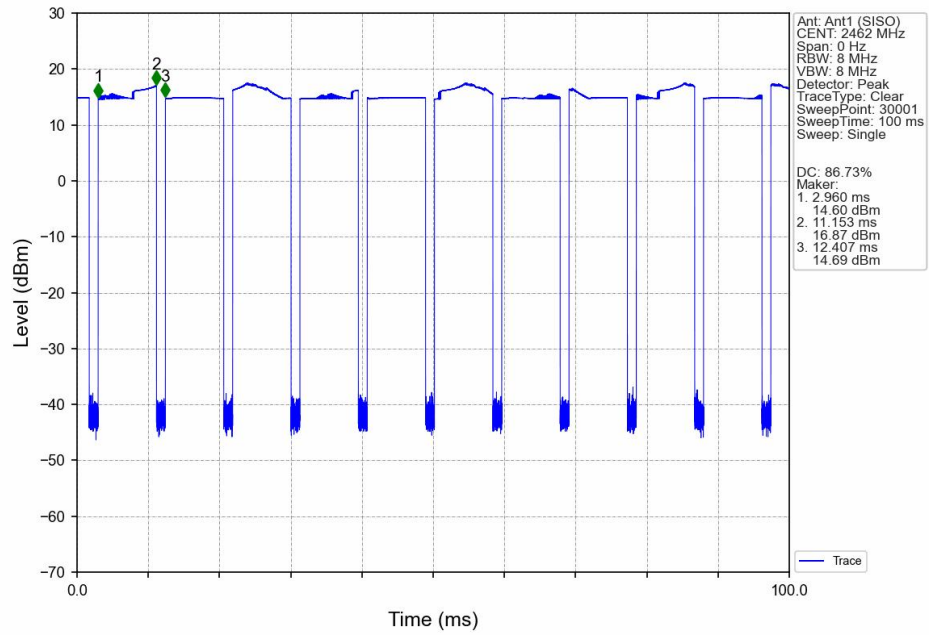
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.193	9.447	86.73	0.62	0.04
		2437	/	/	8.193	9.447	86.73	0.62	0.04
		2462	/	/	8.193	9.447	86.73	0.62	0.04
802.11g	SISO	2412	/	/	1.362	2.613	52.12	2.83	0.02
		2437	/	/	1.362	2.613	52.12	2.83	0.02
		2462	/	/	1.362	2.613	52.12	2.83	0.02
802.11n (HT20)	MIMO	2412	/	/	1.273	2.525	50.42	2.97	0.03
		2437	/	/	1.273	2.524	50.44	2.97	0.03
		2462	/	/	1.273	2.525	50.42	2.97	0.02
802.11n (HT40)	MIMO	2422	/	/	0.634	1.885	33.63	4.73	0.02
		2437	/	/	0.633	1.885	33.58	4.74	0.02
		2452	/	/	0.633	1.885	33.58	4.74	0.03
802.11ax (HEW20)	MIMO	2412	SU	/	1.164	2.417	48.16	3.17	0.02
		2437	SU	/	1.164	2.417	48.16	3.17	0.00
		2462	SU	/	1.164	2.417	48.16	3.17	0.04
802.11ax (HEW40)	MIMO	2422	SU	/	0.616	1.869	32.96	4.82	0.03
		2437	SU	/	0.616	1.869	32.96	4.82	0.02
		2452	SU	/	0.616	1.869	32.96	4.82	0.03

1.2 Test Graph

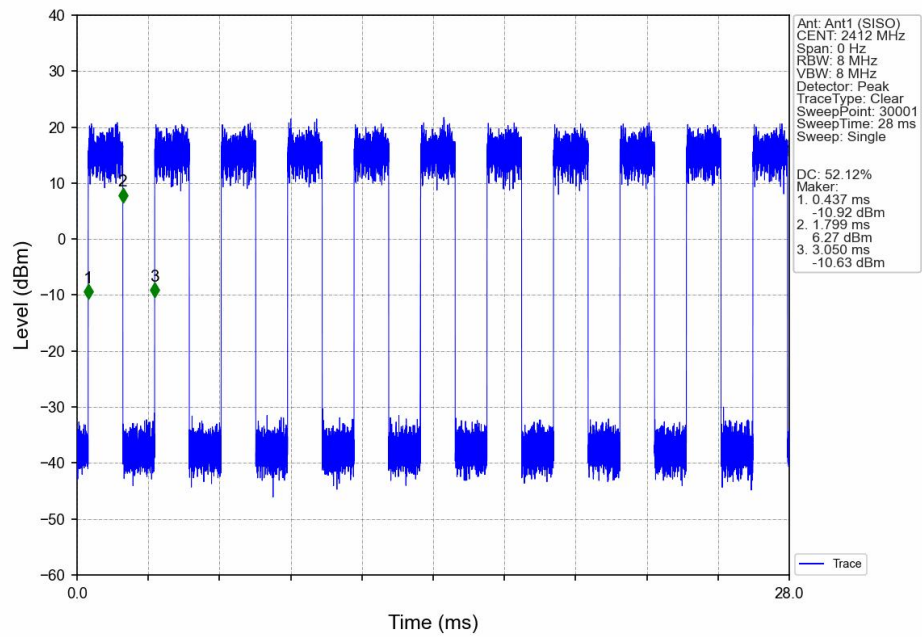
1.2.1 Ant1



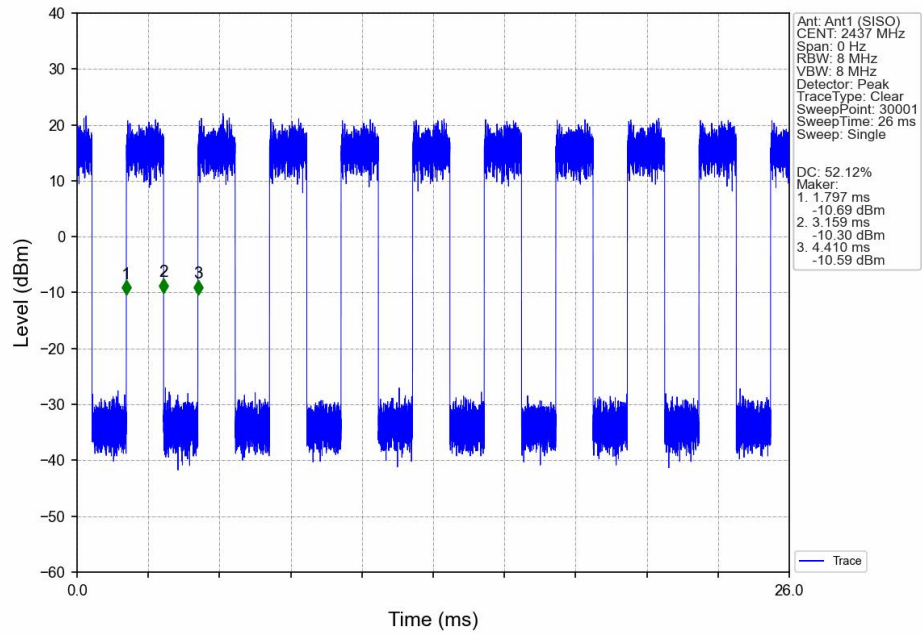
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



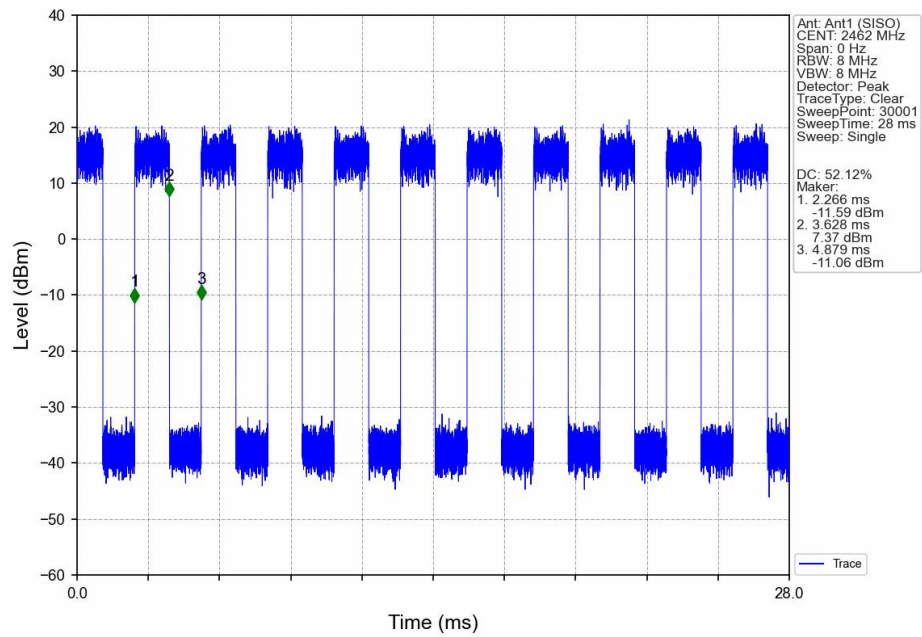
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



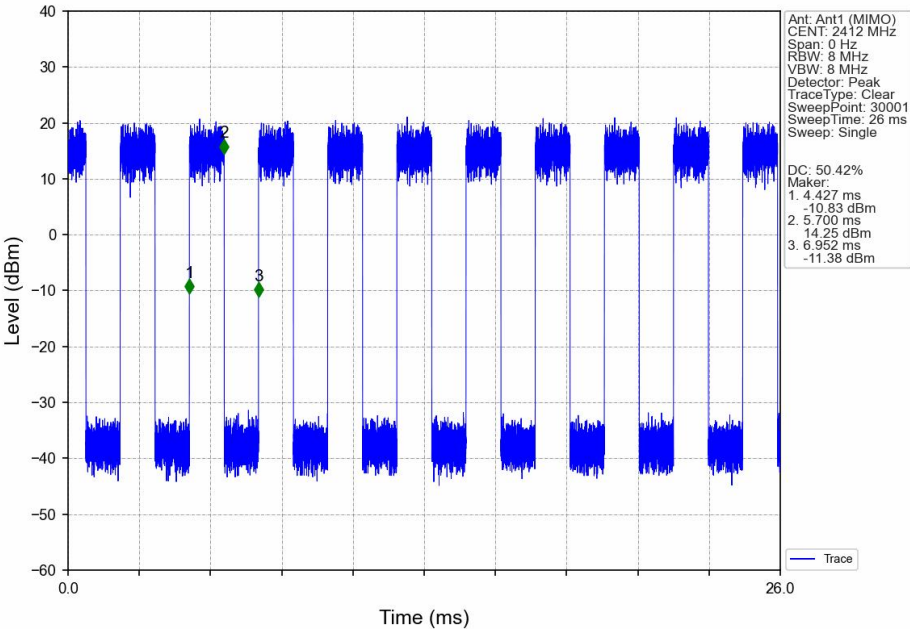
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



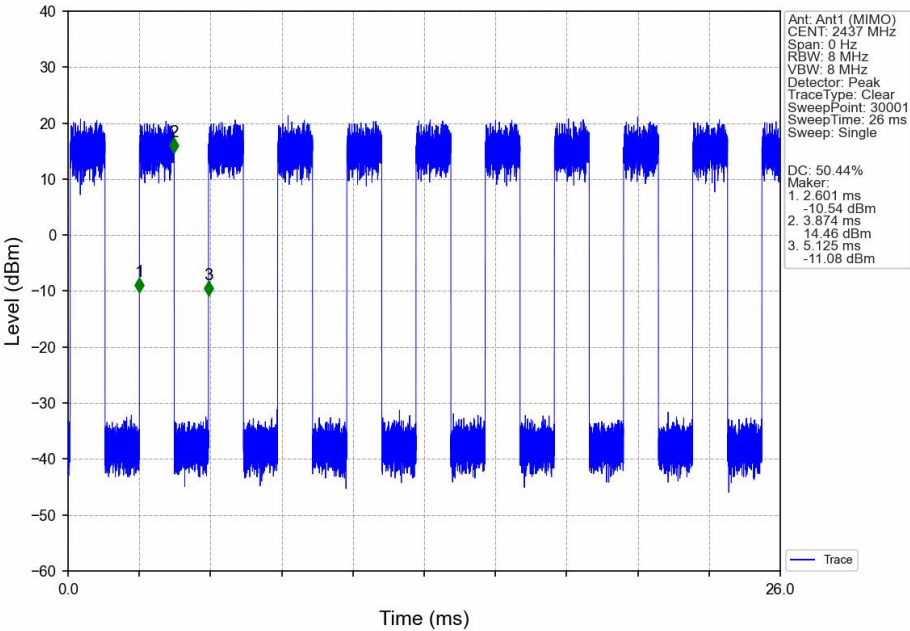
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



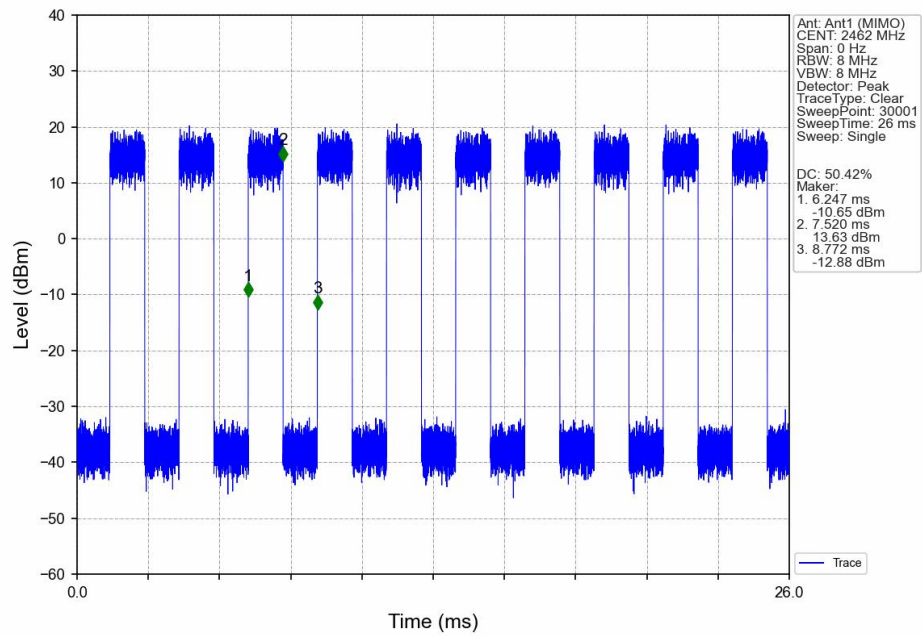
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



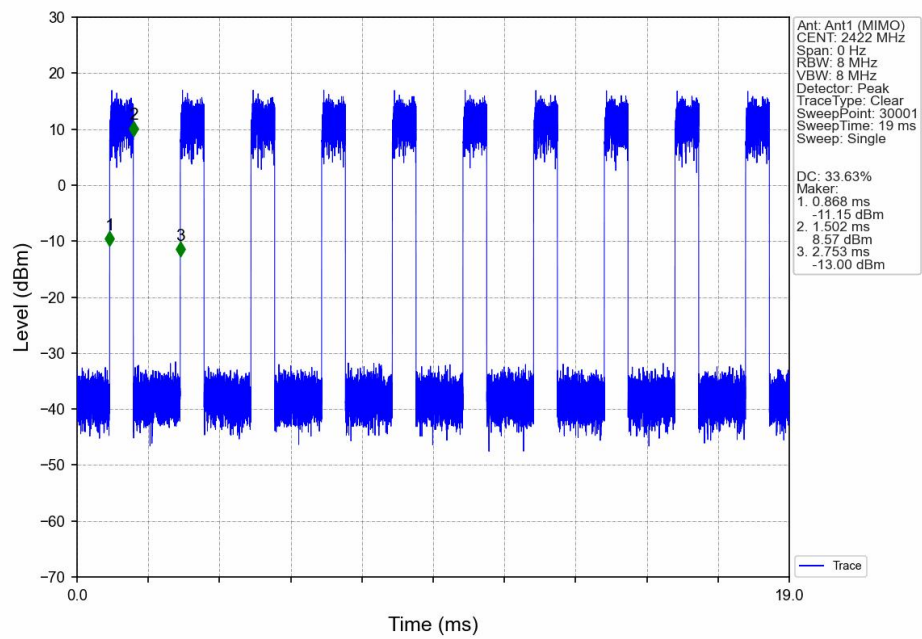
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



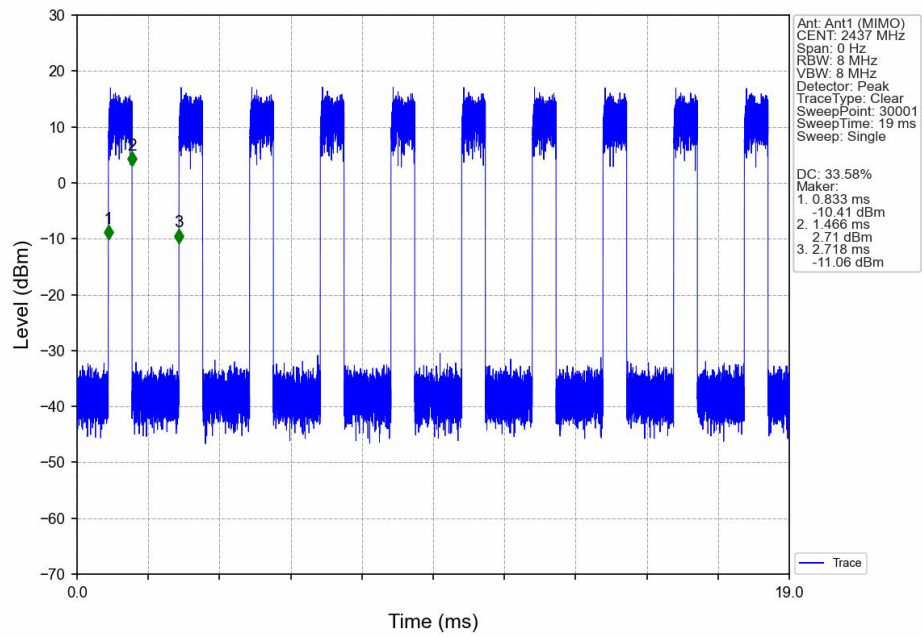
802.11n(HT20) HCH_2462MHz_Ant1 (MIMO)_NTNV



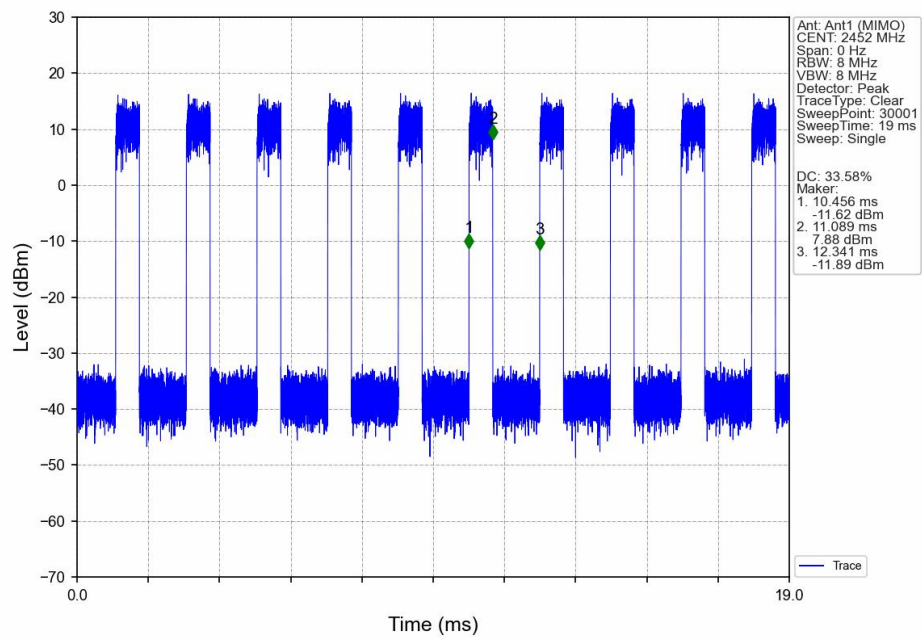
802.11n(HT40) LCH_2422MHz_Ant1 (MIMO)_NTNV



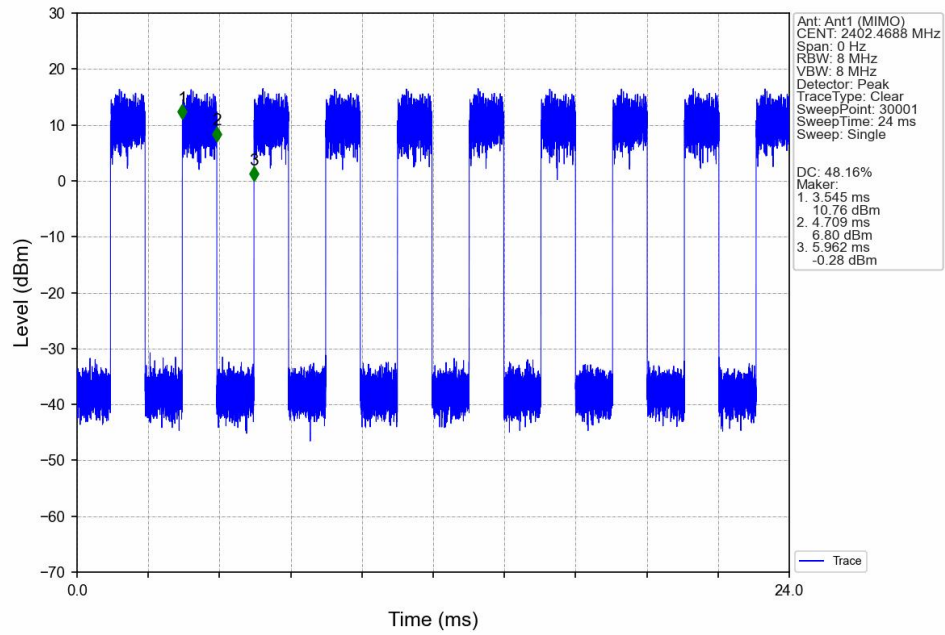
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



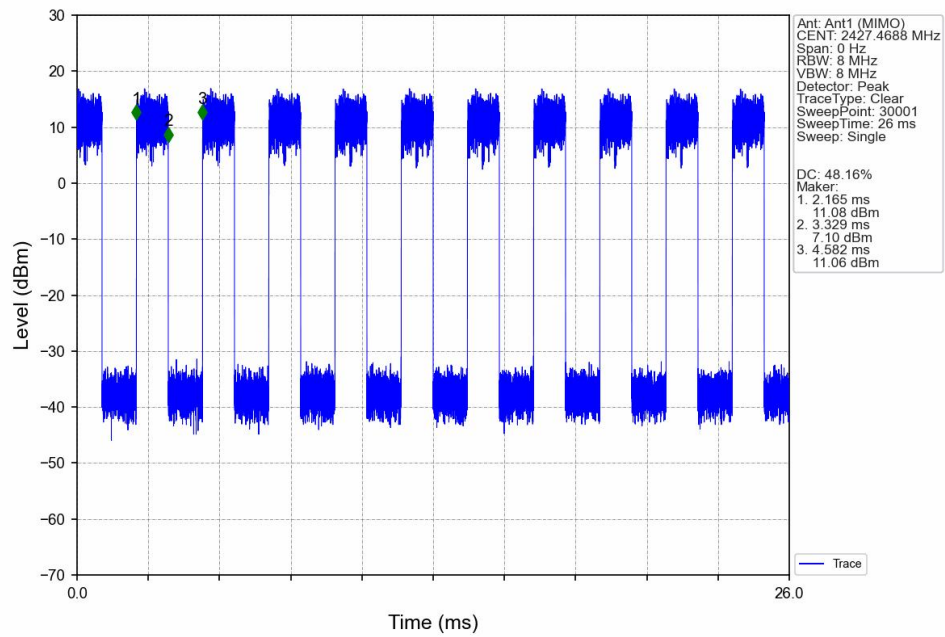
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



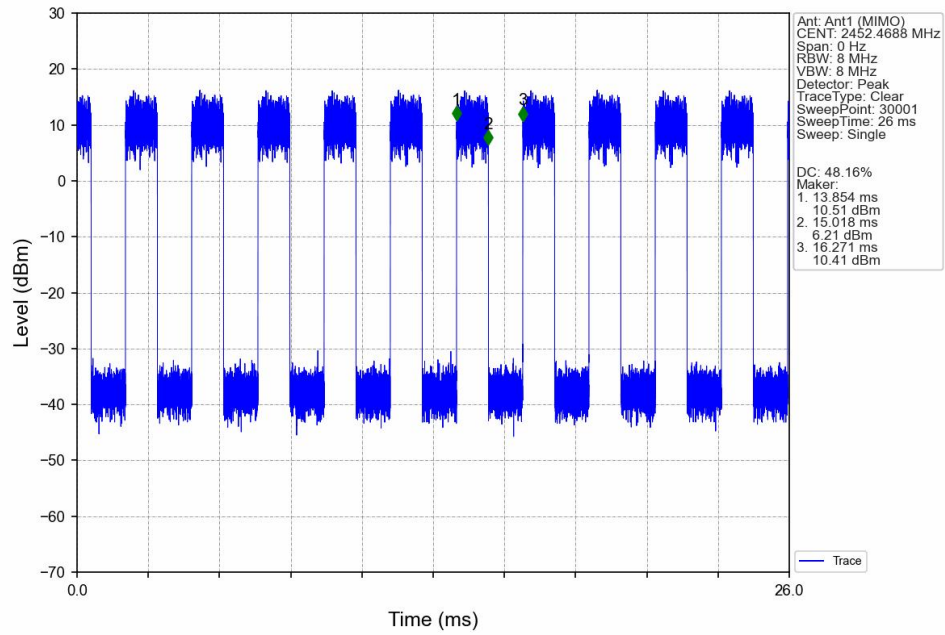
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (MIMO)_NTNV



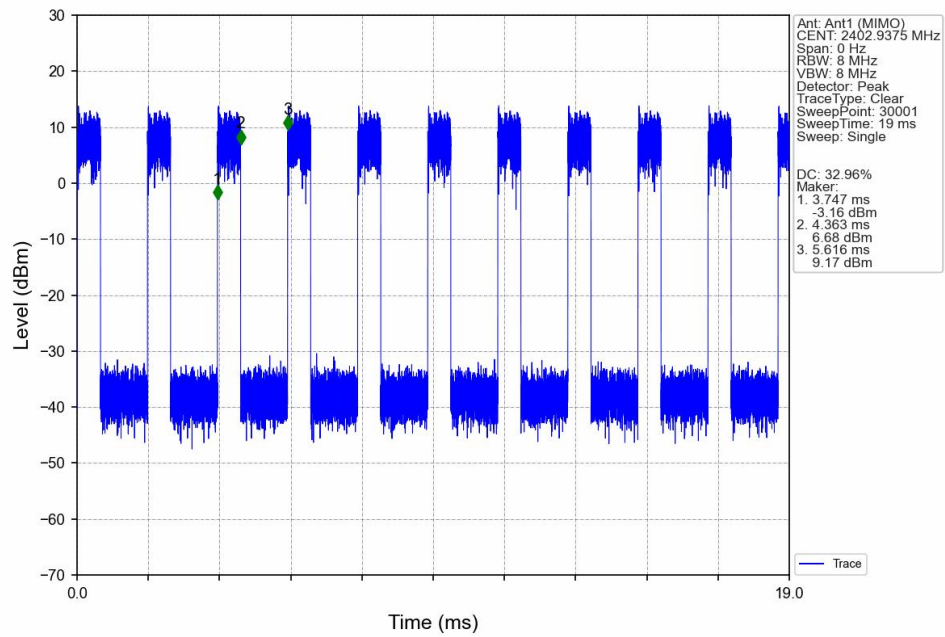
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (MIMO)_NTNV



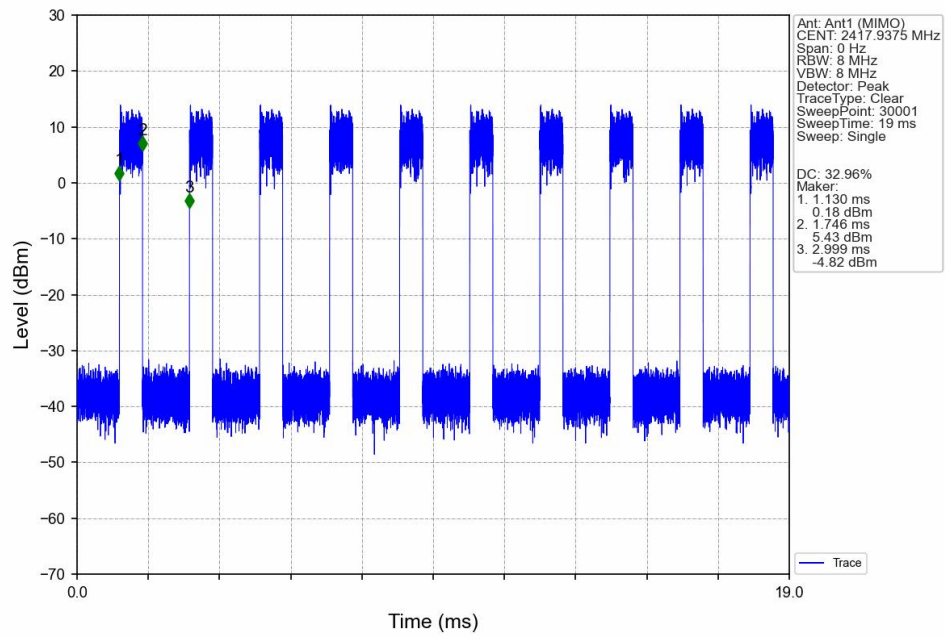
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (MIMO)_NTNV



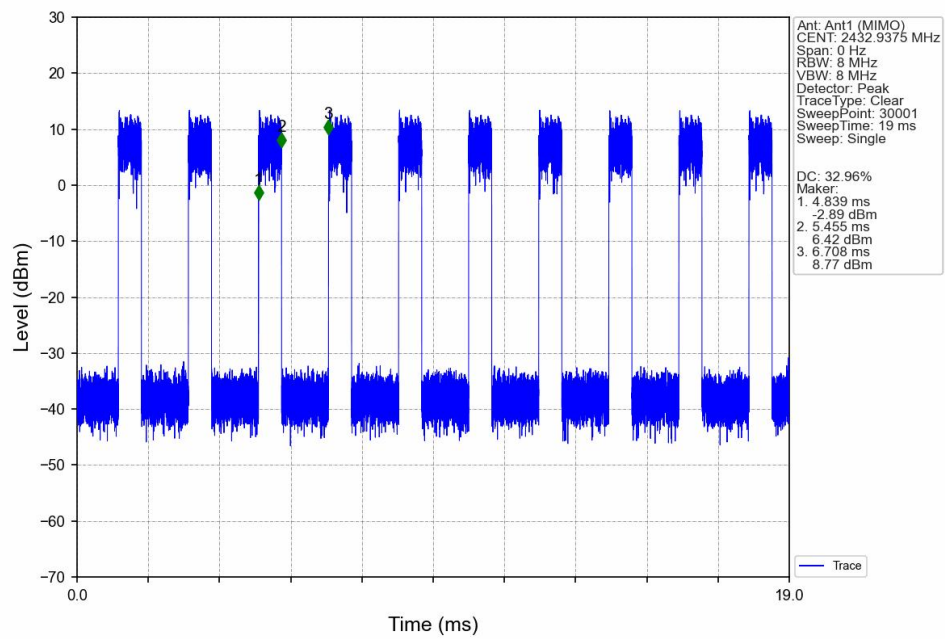
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (MIMO)_NTNV



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



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



2. Bandwidth

2.1 Test Result

2.1.1 OBW

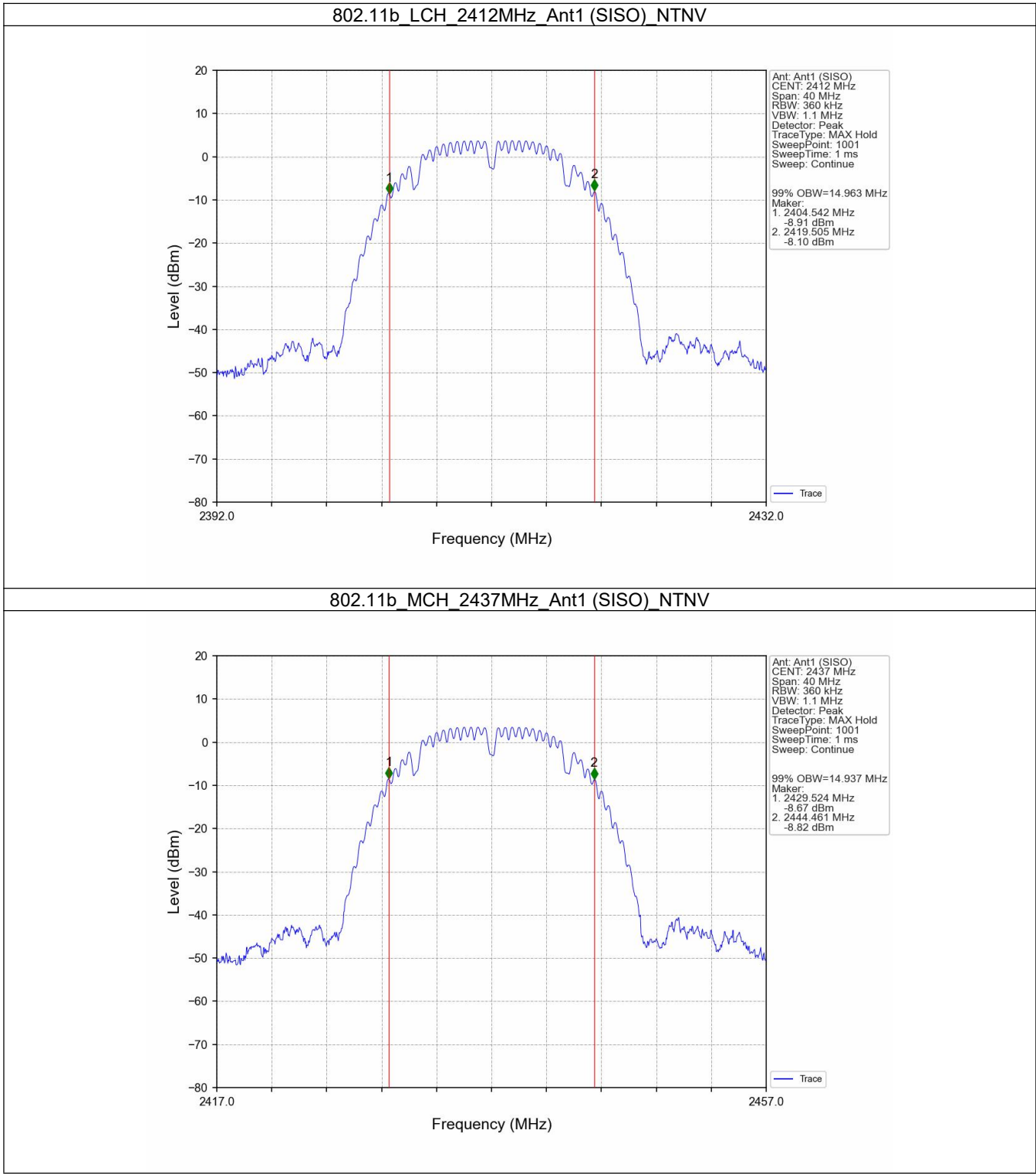
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	14.963	/	Pass
		2437	/	/	1	14.937	/	Pass
		2462	/	/	1	14.946	/	Pass
802.11g	SISO	2412	/	/	1	18.043	/	Pass
		2437	/	/	1	17.997	/	Pass
		2462	/	/	1	17.925	/	Pass
802.11n (HT20)	MIMO	2412	/	/	1	19.033	/	Pass
		2437	/	/	1	18.940	/	Pass
		2462	/	/	1	18.973	/	Pass
802.11n (HT40)	MIMO	2422	/	/	1	37.718	/	Pass
		2437	/	/	1	37.797	/	Pass
		2452	/	/	1	37.821	/	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	19.482	/	Pass
		2437	SU	/	1	19.461	/	Pass
		2462	SU	/	1	19.436	/	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	38.593	/	Pass
		2437	SU	/	1	38.738	/	Pass
		2452	SU	/	1	38.841	/	Pass

2.1.2 6dB BW

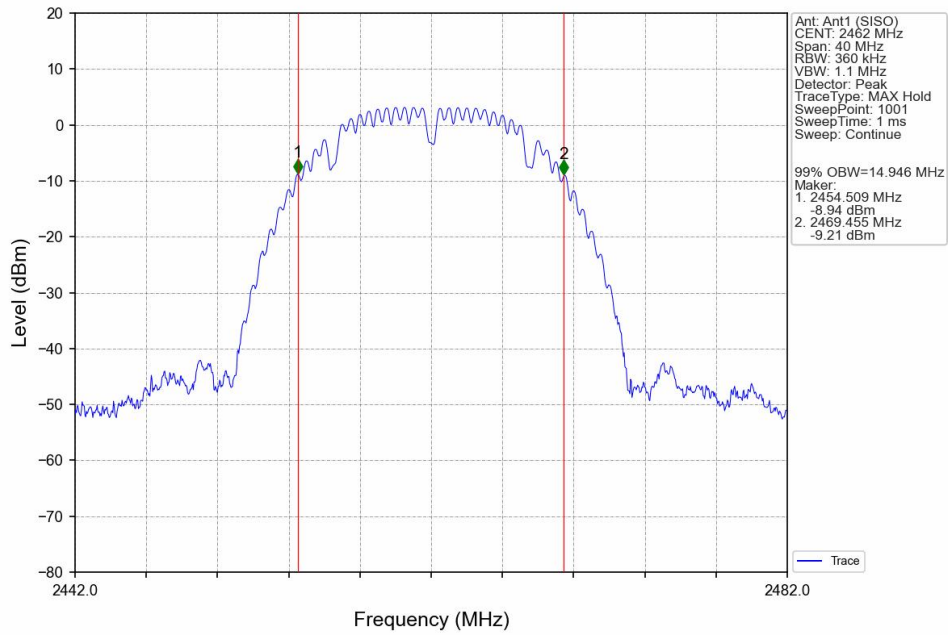
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	12.120	>=0.5	Pass
		2437	/	/	1	12.113	>=0.5	Pass
		2462	/	/	1	12.101	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.780	>=0.5	Pass
		2437	/	/	1	16.647	>=0.5	Pass
		2462	/	/	1	16.579	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.850	>=0.5	Pass
		2437	/	/	1	17.908	>=0.5	Pass
		2462	/	/	1	17.781	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.555	>=0.5	Pass
		2437	/	/	1	36.894	>=0.5	Pass
		2452	/	/	1	36.814	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	18.973	>=0.5	Pass
		2437	SU	/	1	19.092	>=0.5	Pass
		2462	SU	/	1	19.011	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	37.999	>=0.5	Pass
		2437	SU	/	1	38.287	>=0.5	Pass
		2452	SU	/	1	38.188	>=0.5	Pass

2.2 Test Graph

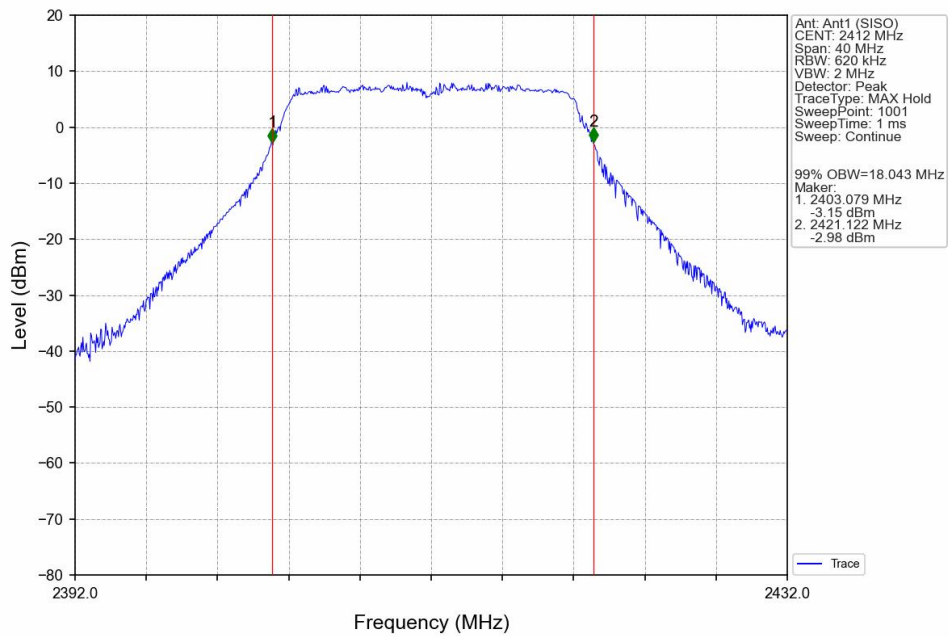
2.2.1 OBW



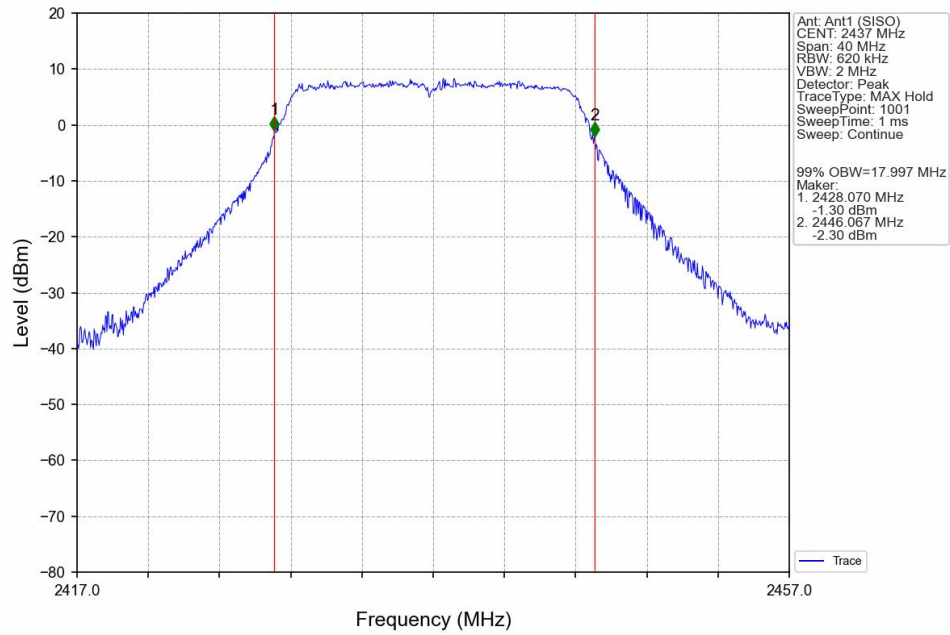
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



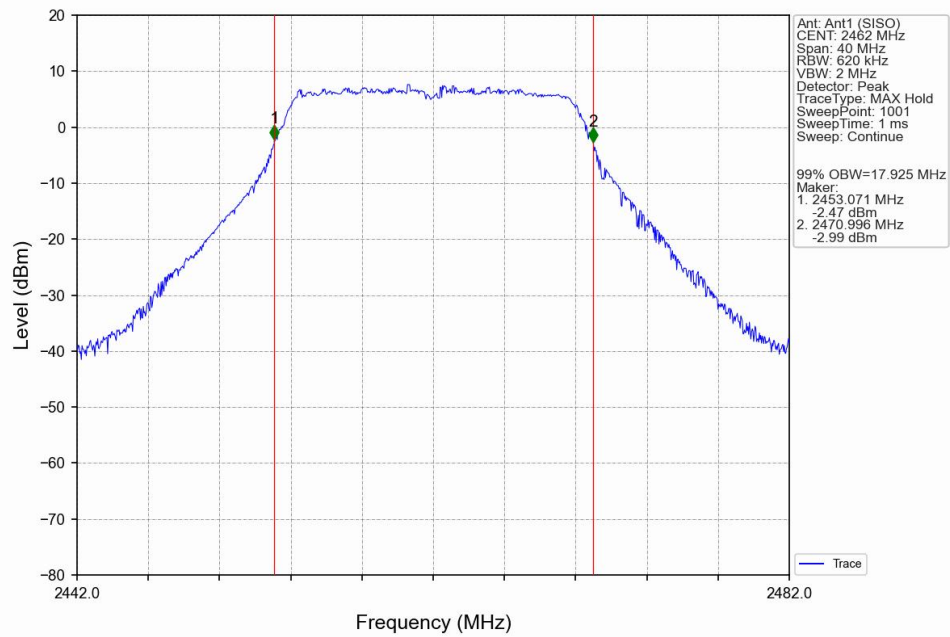
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



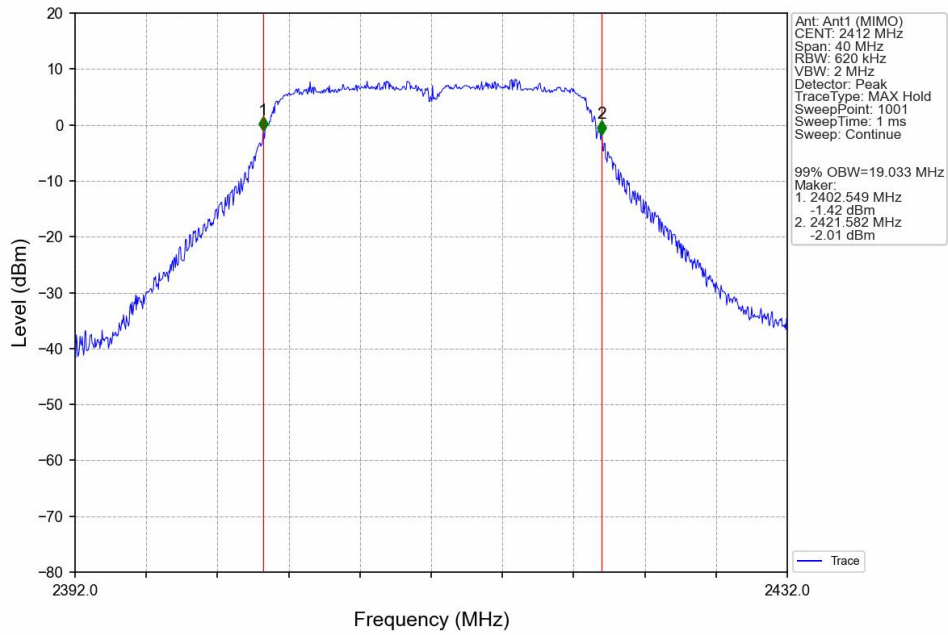
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



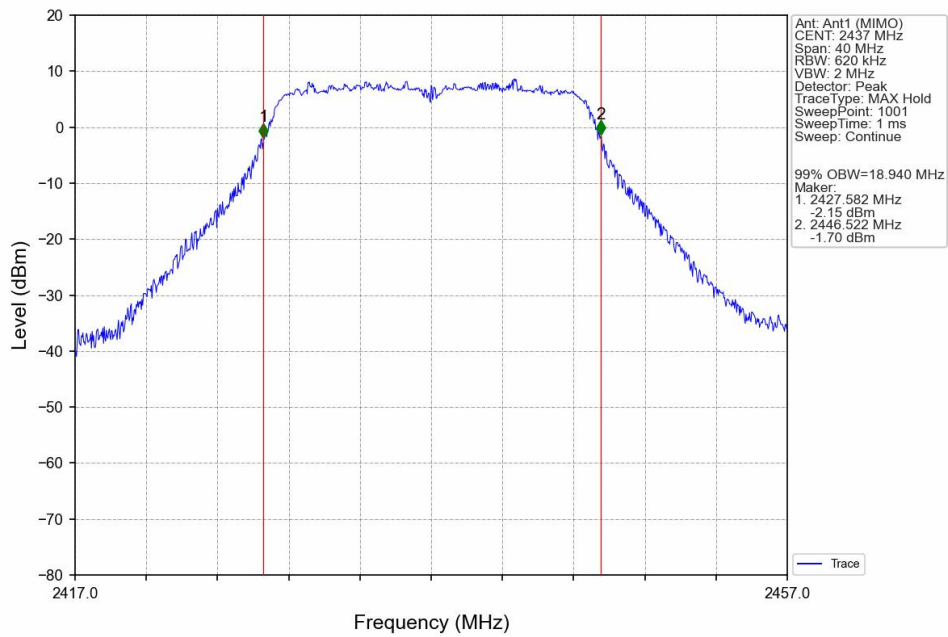
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



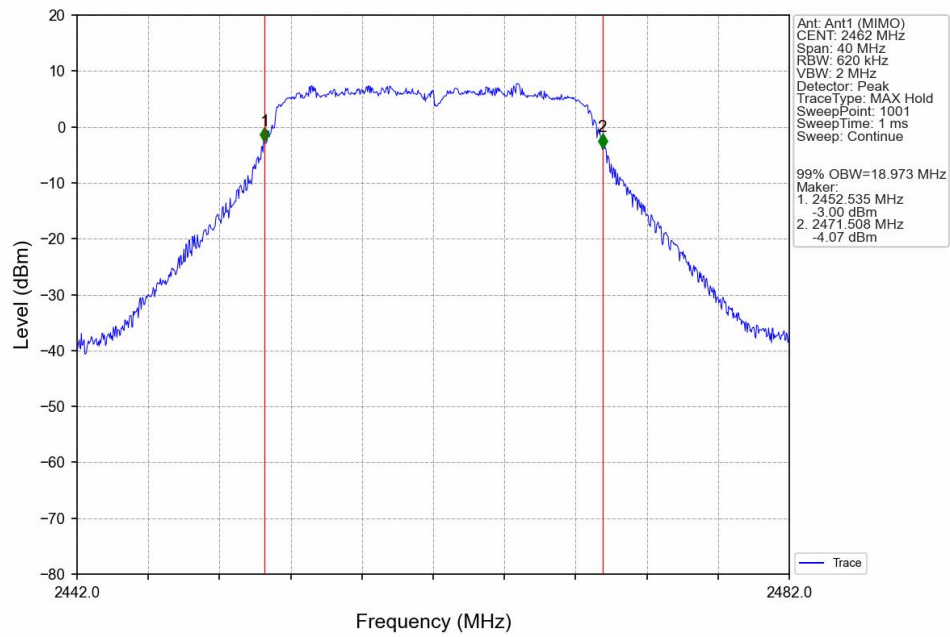
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



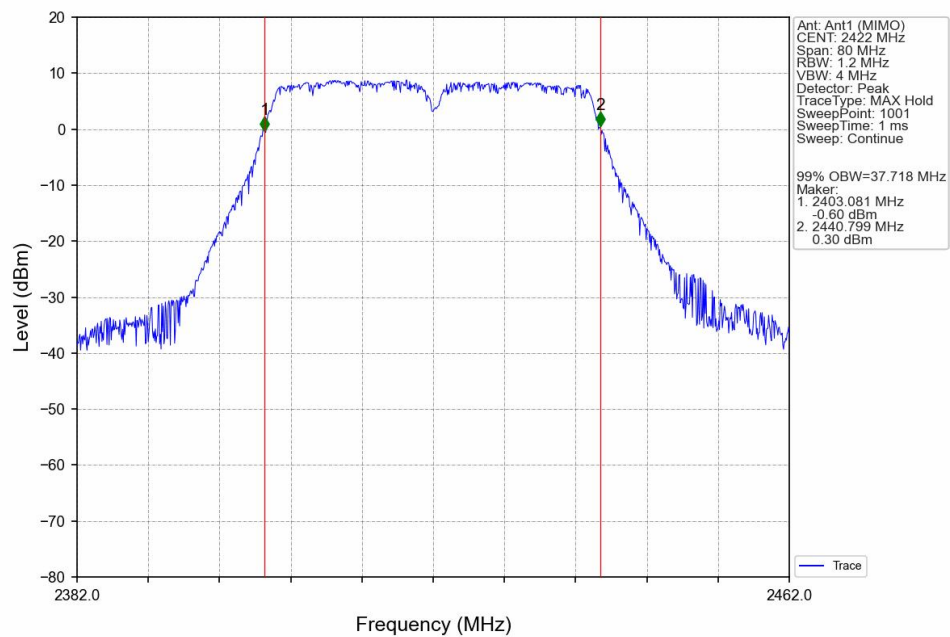
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



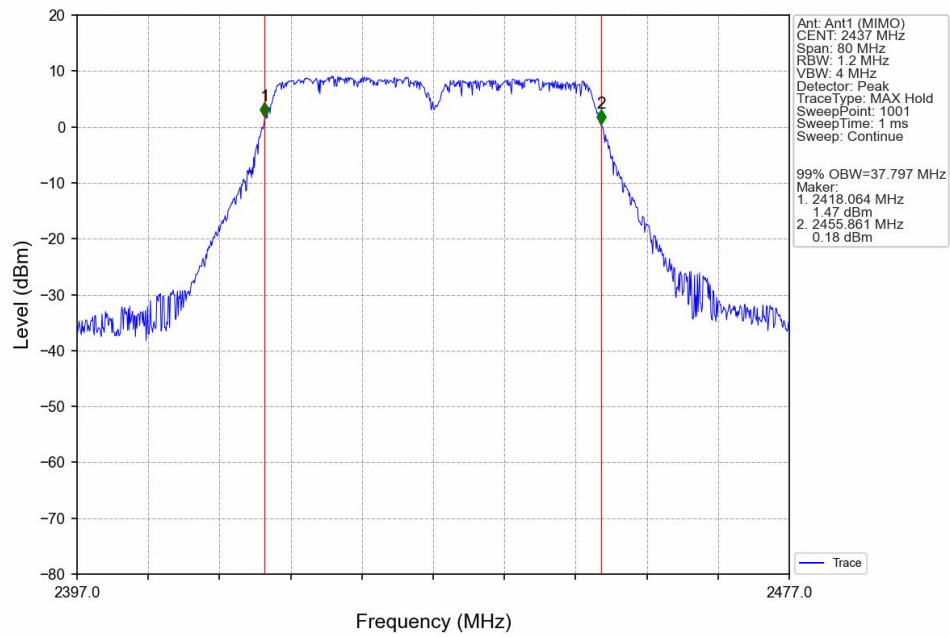
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



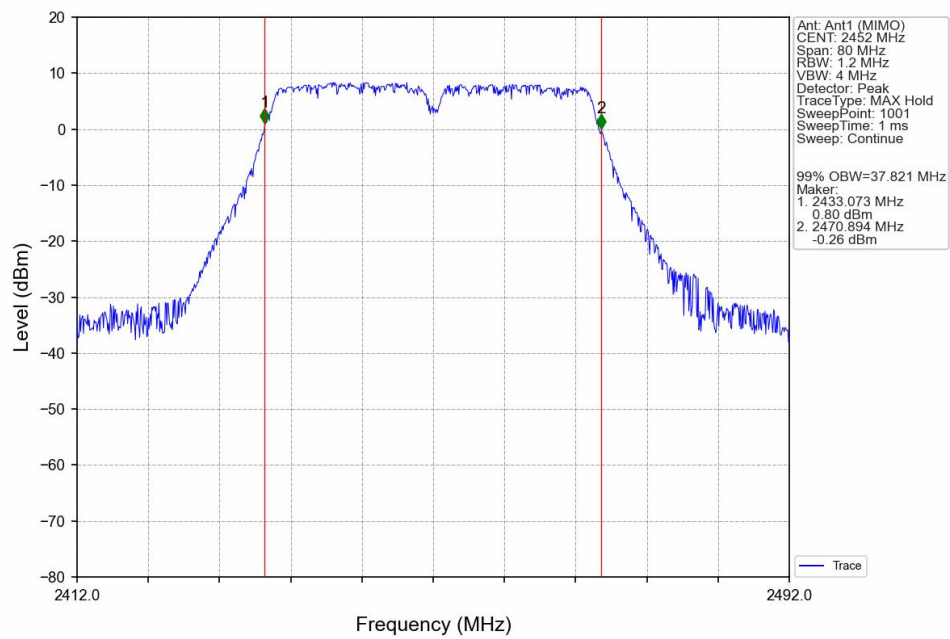
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



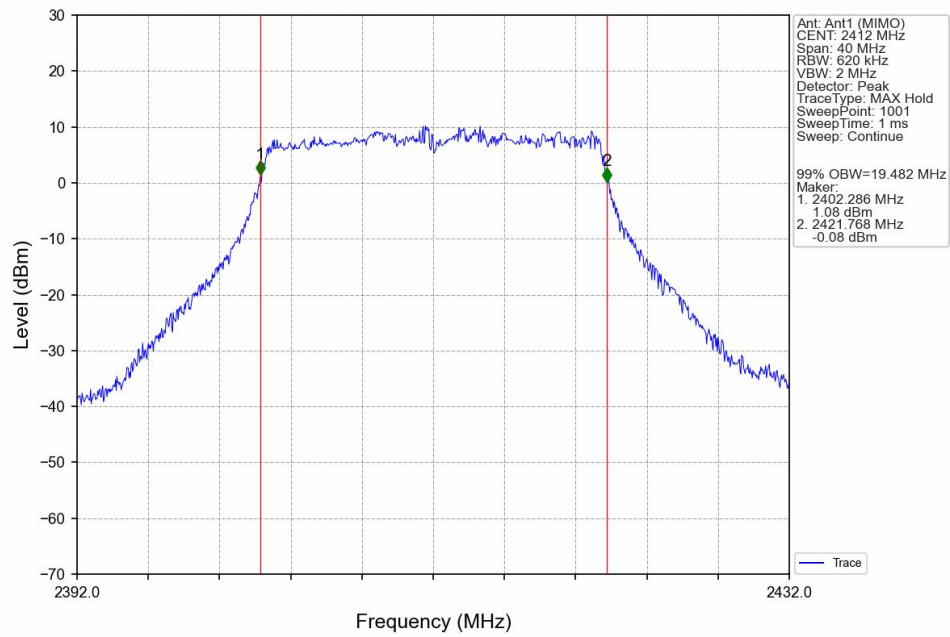
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



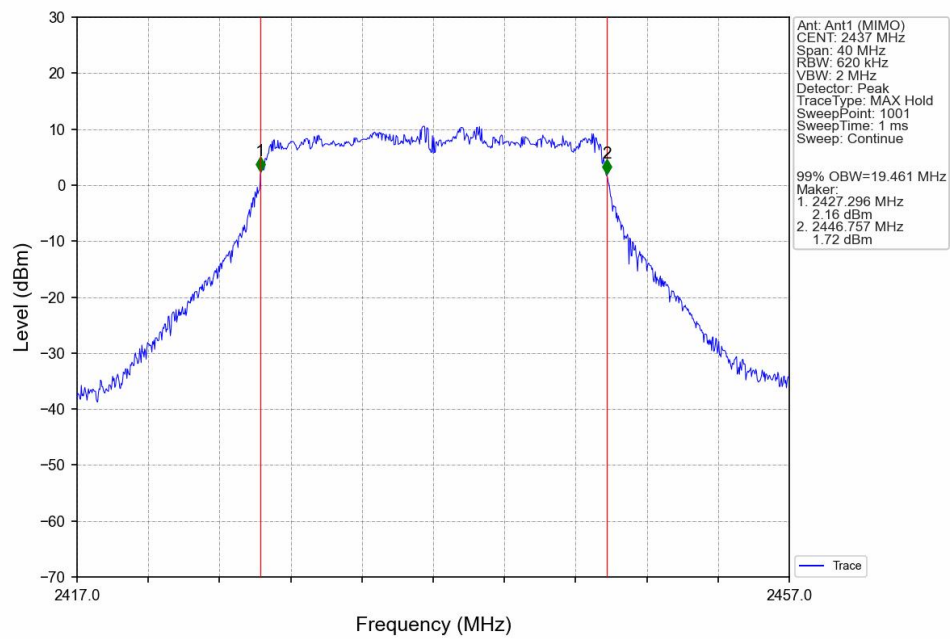
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



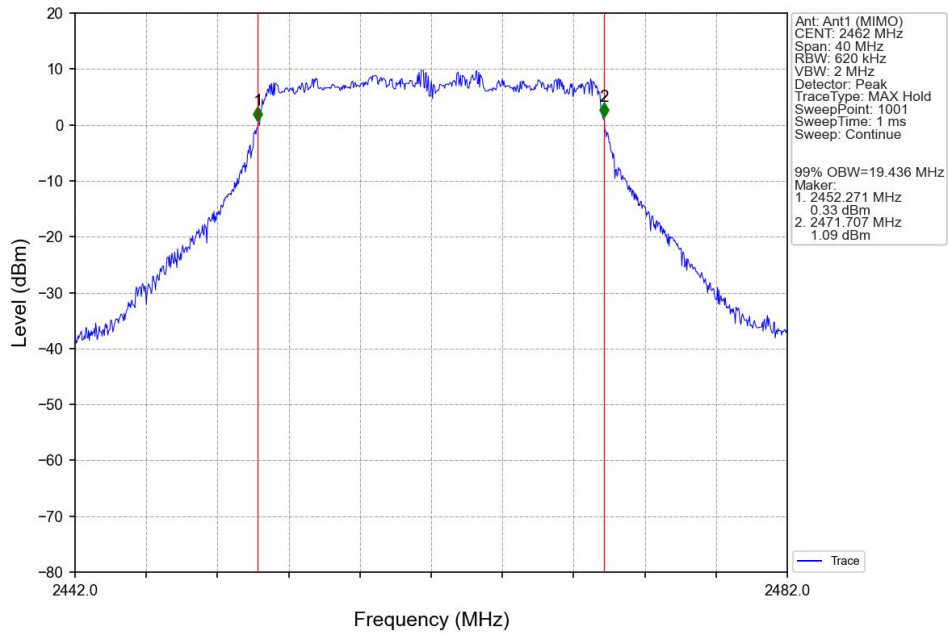
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (MIMO)_NTNV



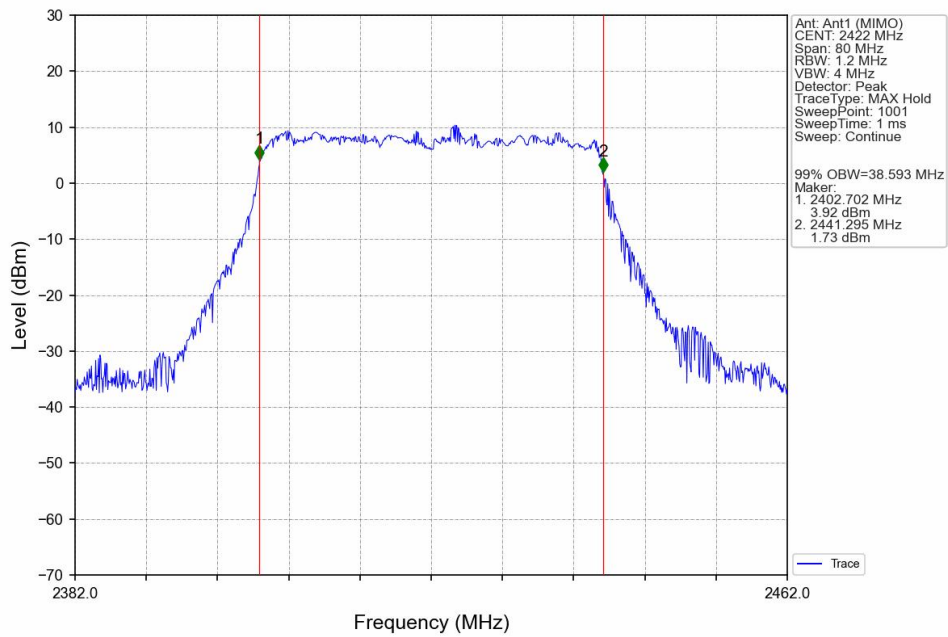
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (MIMO)_NTNV



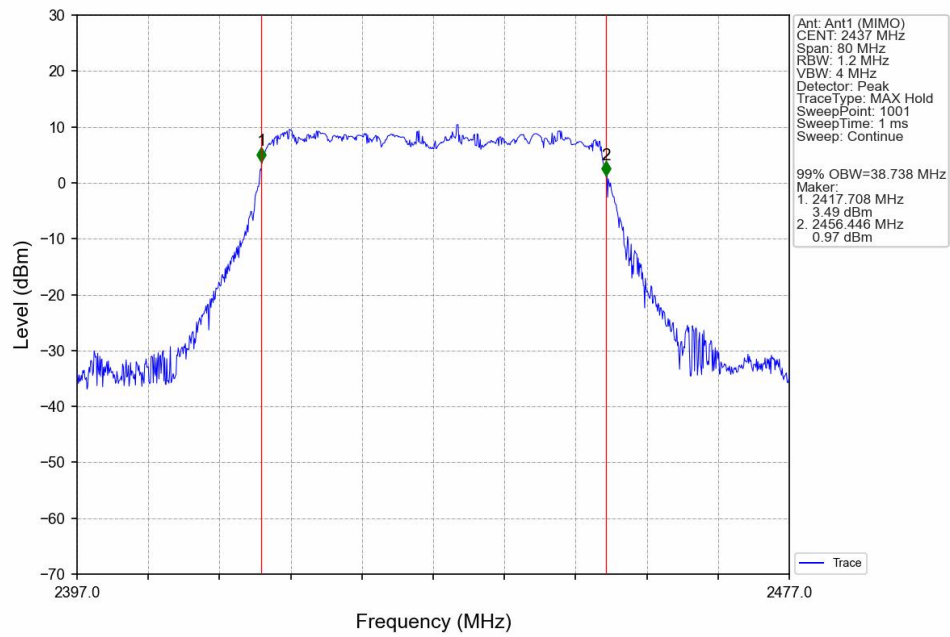
802.11ax(HEW20)_HCH_2462MHz_SU / _Ant1 (MIMO)_NTNV



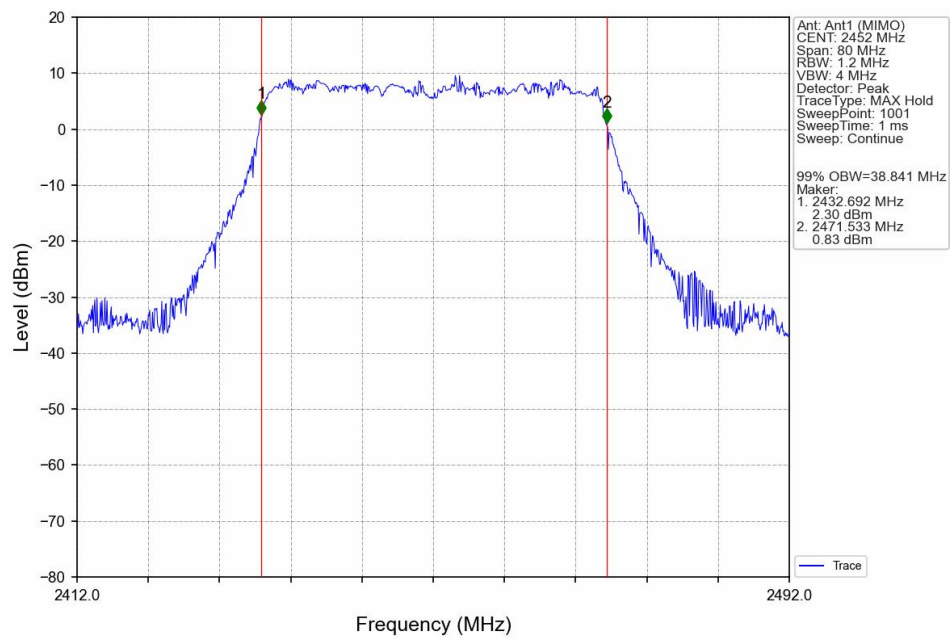
802.11ax(HEW40)_LCH_2422MHz_SU / _Ant1 (MIMO)_NTNV



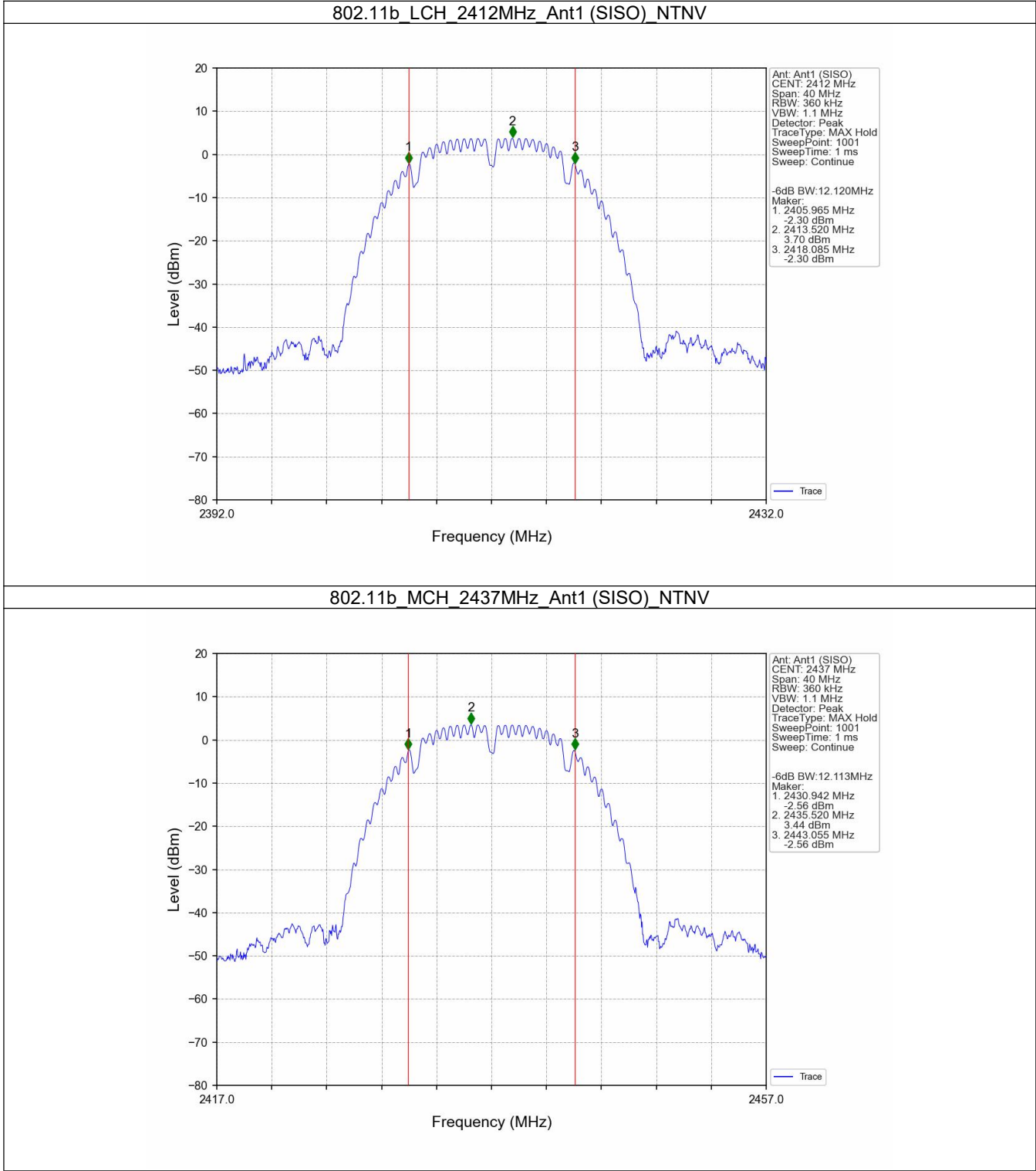
802.11ax(HEW40)_MCH_2437MHz_SU / _Ant1 (MIMO)_NTNV



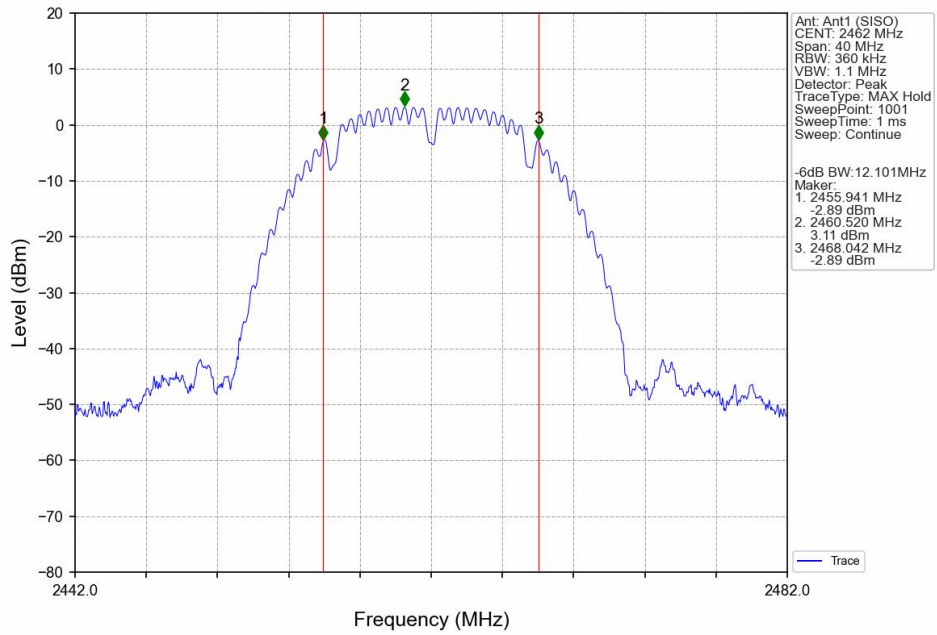
802.11ax(HEW40)_HCH_2452MHz_SU / _Ant1 (MIMO)_NTNV



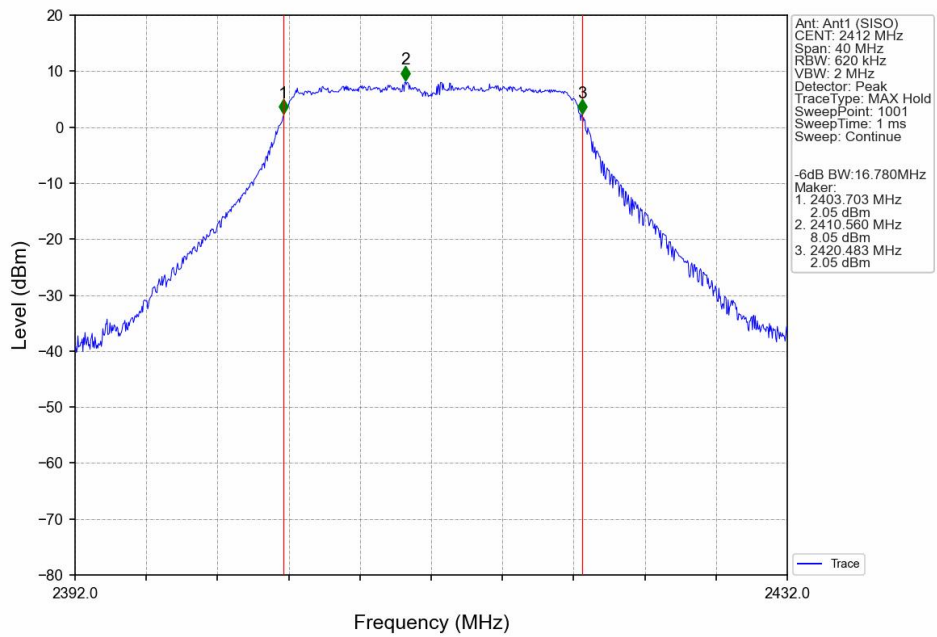
2.2.2 6dB BW



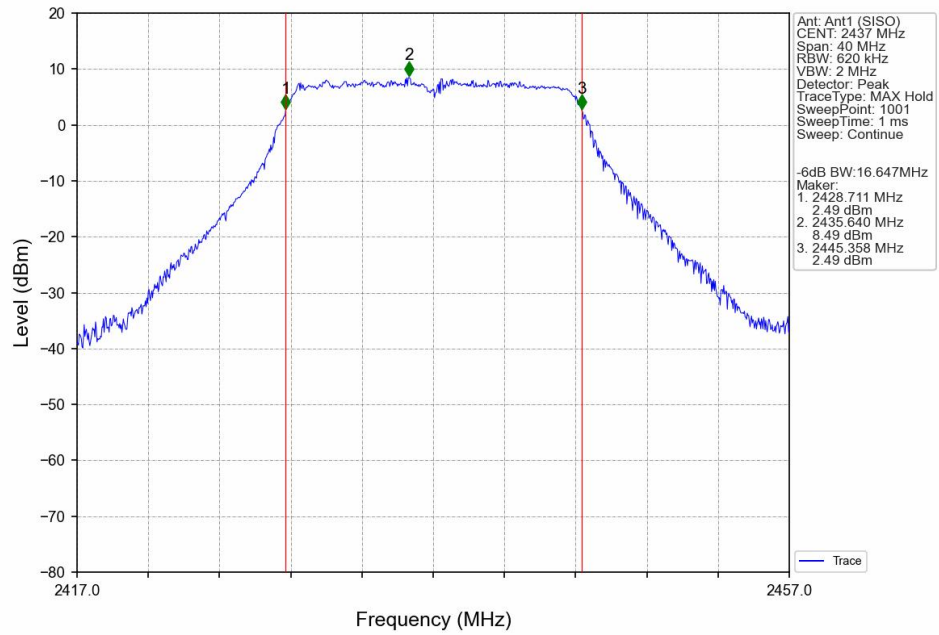
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



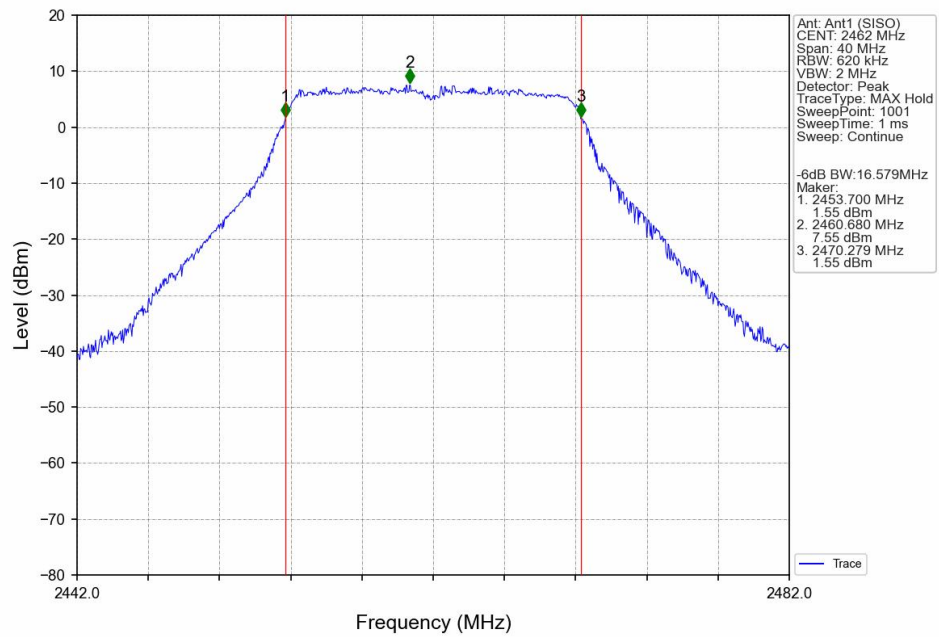
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



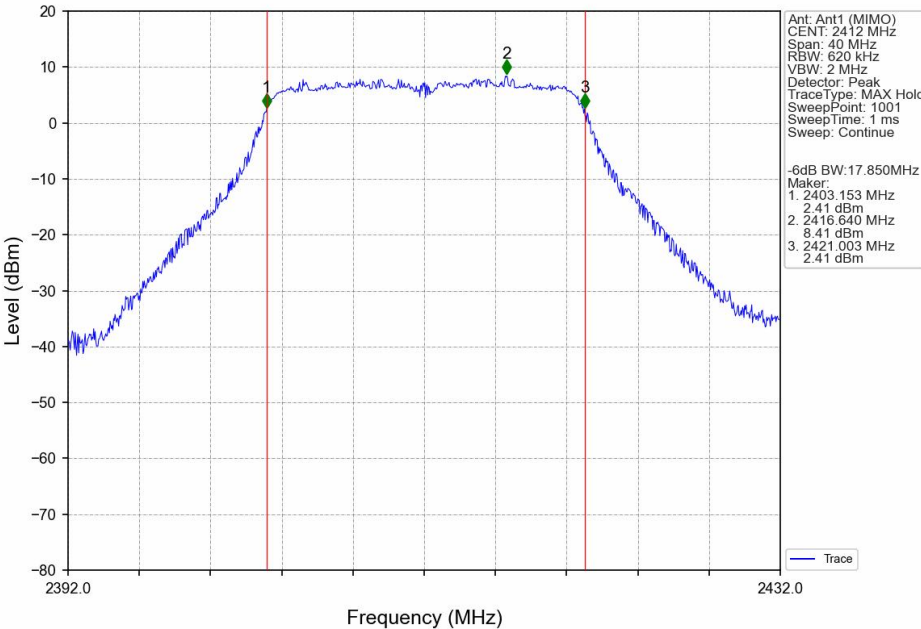
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



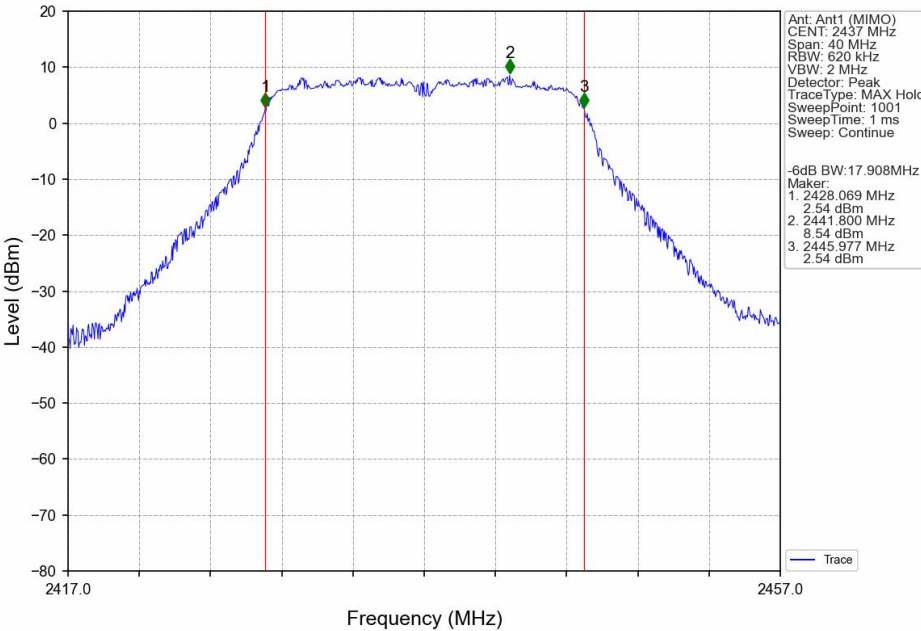
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



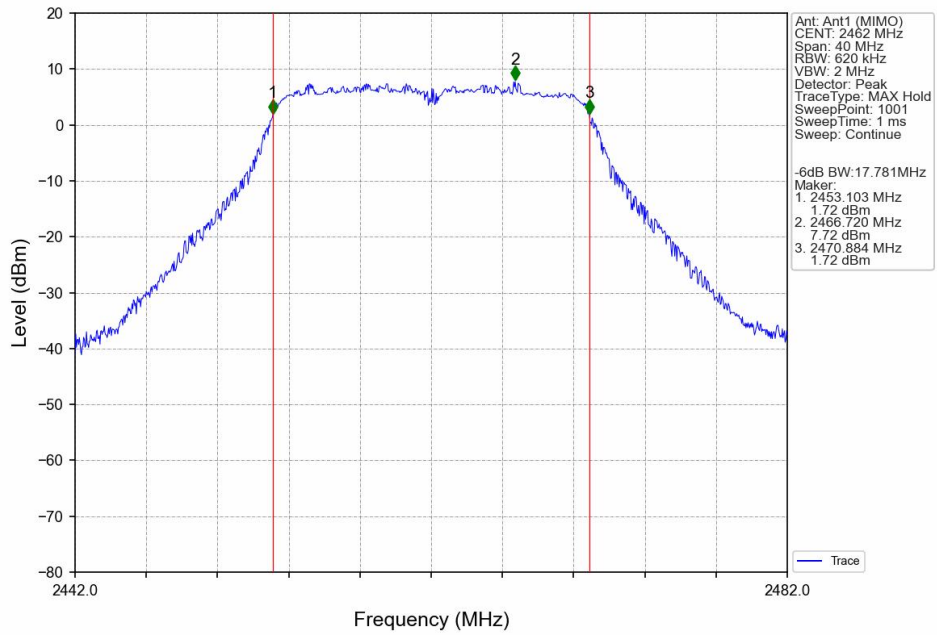
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



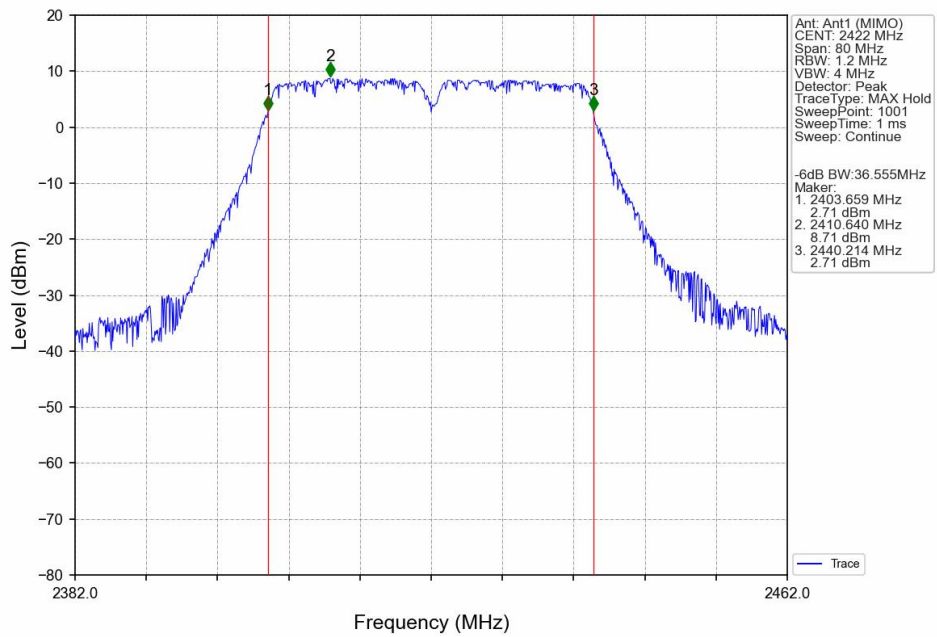
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



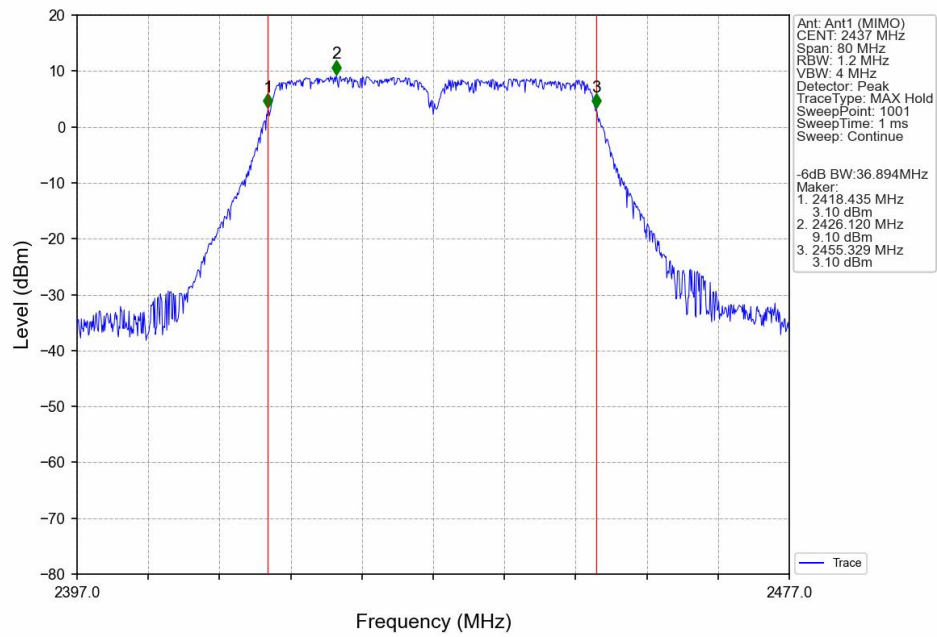
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



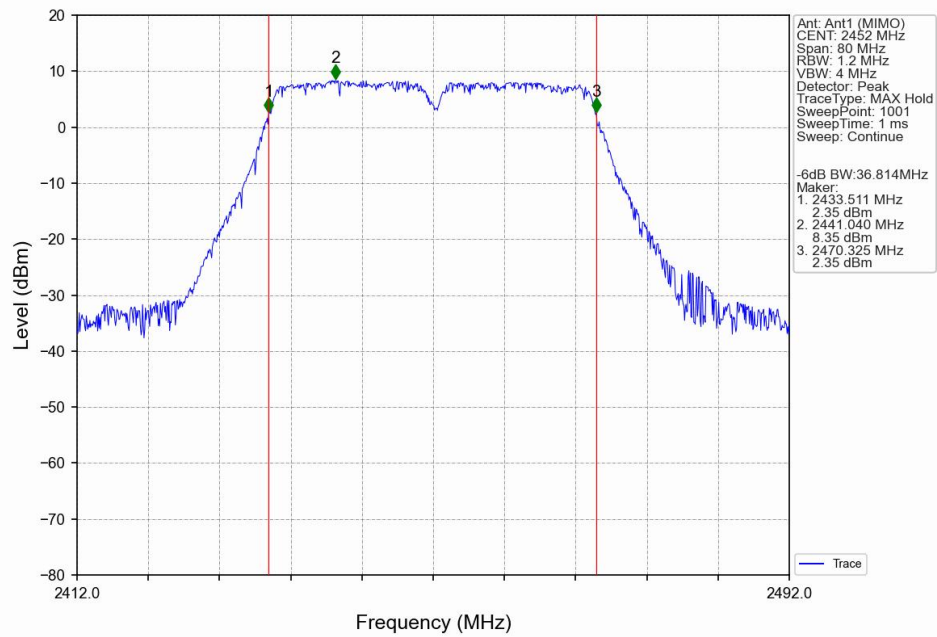
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



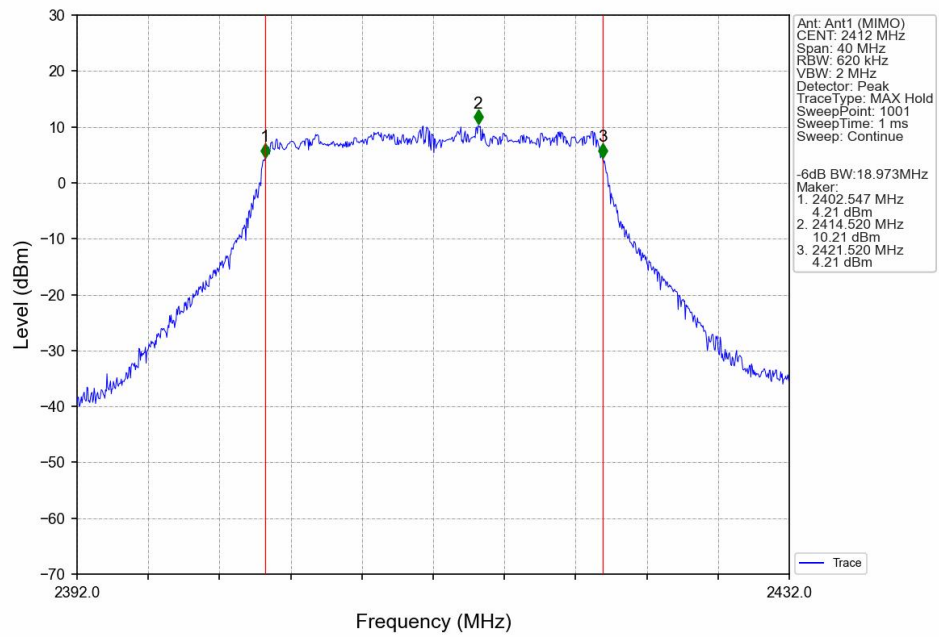
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



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

