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	/	/	12.624	12.637	99.90	0.00	0.03
		2437	/	/	12.623	12.636	99.90	0.00	0.03
		2462	/	/	12.624	12.637	99.90	0.00	0.03
802.11g	SISO	2412	/	/	1.977	1.993	99.20	0.04	0.03
		2437	/	/	1.977	1.993	99.20	0.04	0.03
		2462	/	/	1.977	1.994	99.15	0.04	0.07
802.11n (HT20)	MIMO	2412	/	/	5.428	5.446	99.67	0.01	0.04
		2437	/	/	5.428	5.446	99.67	0.01	0.04
		2462	/	/	5.428	5.446	99.67	0.01	0.04
802.11n (HT40)	MIMO	2422	/	/	5.428	5.445	99.69	0.01	0.03
		2437	/	/	5.428	5.444	99.71	0.01	0.00
		2452	/	/	5.428	5.445	99.69	0.01	0.03
802.11ax (HEW20)	MIMO	2412	SU	/	5.452	5.470	99.67	0.01	0.04
		2437	SU	/	5.452	5.470	99.67	0.01	0.04
		2462	SU	/	5.452	5.470	99.67	0.01	0.04
802.11ax (HEW40)	MIMO	2422	SU	/	5.452	5.468	99.71	0.01	0.00
		2437	SU	/	5.452	5.468	99.71	0.01	0.04
		2452	SU	/	5.452	5.468	99.71	0.01	0.00
802.11be (EHT20)	MIMO	2412	SU	/	5.447	5.464	99.69	0.01	0.03
		2437	SU	/	5.446	5.462	99.71	0.01	0.00
		2462	SU	/	5.446	5.464	99.67	0.01	0.04
802.11be (EHT40)	MIMO	2422	SU	/	5.445	5.462	99.69	0.01	0.03
		2437	SU	/	5.445	5.462	99.69	0.01	0.03
		2452	SU	/	5.446	5.462	99.71	0.01	0.04

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	SISO	2412	/	/	12.624	12.634	99.92	0.00	0.00
		2437	/	/	12.627	12.637	99.92	0.00	0.00
		2462	/	/	12.623	12.637	99.89	0.00	0.03
802.11g	SISO	2412	/	/	1.977	1.993	99.20	0.04	0.03
		2437	/	/	1.977	1.993	99.20	0.04	0.03
		2462	/	/	1.977	1.993	99.20	0.04	0.03
802.11n (HT20)	MIMO	2412	/	/	5.428	5.444	99.71	0.01	0.00
		2437	/	/	5.429	5.445	99.71	0.01	0.03
		2462	/	/	5.428	5.445	99.69	0.01	0.03
802.11n (HT40)	MIMO	2422	/	/	5.428	5.444	99.71	0.01	0.00
		2437	/	/	5.428	5.444	99.71	0.01	0.00
		2452	/	/	5.428	5.444	99.71	0.01	0.00
802.11ax (HEW20)	MIMO	2412	SU	/	5.452	5.468	99.71	0.01	0.04
		2437	SU	/	5.452	5.468	99.71	0.01	0.00

		2462	SU	/	5.452	5.468	99.71	0.01	0.00
802.11ax (HEW40)	MIMO	2422	SU	/	5.450	5.467	99.69	0.01	0.03
		2437	SU	/	5.453	5.469	99.71	0.01	0.03
		2452	SU	/	5.452	5.468	99.71	0.01	0.04
802.11be (EHT20)	MIMO	2412	SU	/	5.446	5.462	99.71	0.01	0.00
		2437	SU	/	5.446	5.462	99.71	0.01	0.04
		2462	SU	/	5.446	5.462	99.71	0.01	0.04
802.11be (EHT40)	MIMO	2422	SU	/	5.446	5.462	99.71	0.01	0.00
		2437	SU	/	5.446	5.462	99.71	0.01	0.03
		2452	SU	/	5.446	5.462	99.71	0.01	0.00

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	13.072	/	Pass
					2	13.039	/	Pass
		2437	/	/	1	13.129	/	Pass
					2	13.138	/	Pass
		2462	/	/	1	13.189	/	Pass
					2	13.179	/	Pass
802.11g	SISO	2412	/	/	1	17.592	/	Pass
					2	17.581	/	Pass
		2437	/	/	1	17.554	/	Pass
					2	17.590	/	Pass
		2462	/	/	1	17.579	/	Pass
					2	17.589	/	Pass
802.11n (HT20)	MIMO	2412	/	/	1	18.426	/	Pass
					2	18.445	/	Pass
		2437	/	/	1	18.455	/	Pass
					2	18.408	/	Pass
		2462	/	/	1	18.449	/	Pass
					2	18.420	/	Pass
802.11n (HT40)	MIMO	2422	/	/	1	37.029	/	Pass
					2	37.099	/	Pass
		2437	/	/	1	36.943	/	Pass
					2	36.938	/	Pass
		2452	/	/	1	37.050	/	Pass
					2	37.041	/	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	19.605	/	Pass
					2	19.678	/	Pass
		2437	SU	/	1	19.774	/	Pass
					2	19.804	/	Pass
		2462	SU	/	1	19.889	/	Pass
					2	19.962	/	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	38.900	/	Pass
					2	38.933	/	Pass
		2437	SU	/	1	39.125	/	Pass
					2	39.133	/	Pass
		2452	SU	/	1	38.829	/	Pass
					2	38.814	/	Pass
802.11be (EHT20)	MIMO	2412	SU	/	1	19.205	/	Pass
					2	19.198	/	Pass
		2437	SU	/	1	19.181	/	Pass
					2	19.194	/	Pass
		2462	SU	/	1	19.205	/	Pass
					2	19.166	/	Pass
802.11be (EHT40)	MIMO	2422	SU	/	1	38.339	/	Pass
					2	38.382	/	Pass
		2437	SU	/	1	38.275	/	Pass

					2	38.276	/	Pass
		2452	SU	/	1	38.276	/	Pass
					2	38.299	/	Pass

2.1.2 6dB BW

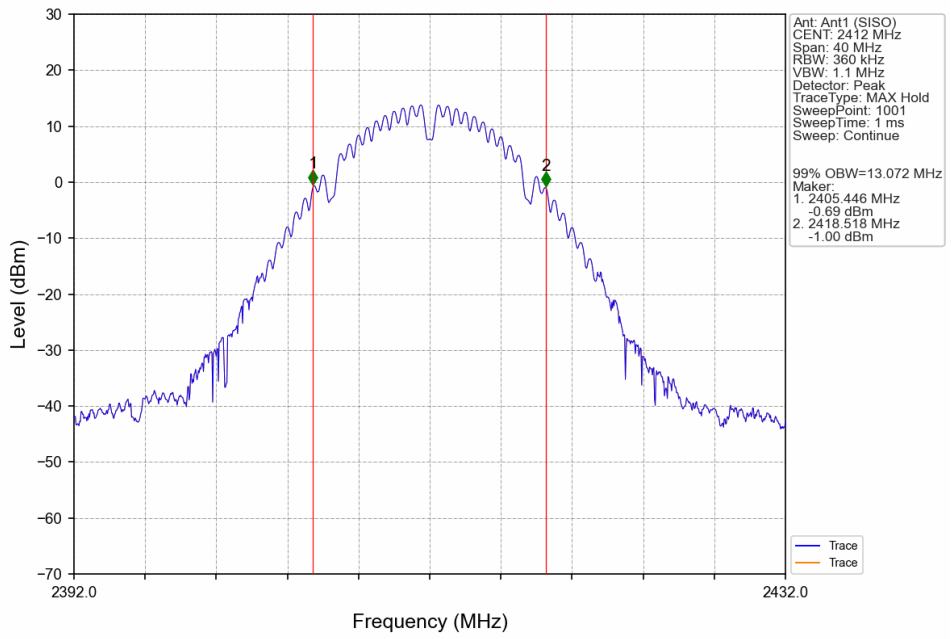
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	7.104	>=0.5	Pass
					2	7.606	>=0.5	Pass
		2437	/	/	1	7.138	>=0.5	Pass
					2	7.148	>=0.5	Pass
		2462	/	/	1	7.118	>=0.5	Pass
					2	7.177	>=0.5	Pass
802.11g	SISO	2412	/	/	1	15.139	>=0.5	Pass
					2	15.141	>=0.5	Pass
		2437	/	/	1	15.119	>=0.5	Pass
					2	15.140	>=0.5	Pass
		2462	/	/	1	15.144	>=0.5	Pass
					2	15.125	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	15.128	>=0.5	Pass
					2	15.105	>=0.5	Pass
		2437	/	/	1	15.102	>=0.5	Pass
					2	15.118	>=0.5	Pass
		2462	/	/	1	15.100	>=0.5	Pass
					2	15.126	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	35.113	>=0.5	Pass
					2	35.070	>=0.5	Pass
		2437	/	/	1	35.122	>=0.5	Pass
					2	35.112	>=0.5	Pass
		2452	/	/	1	35.468	>=0.5	Pass
					2	35.104	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	19.141	>=0.5	Pass
					2	19.139	>=0.5	Pass
		2437	SU	/	1	19.146	>=0.5	Pass
					2	19.163	>=0.5	Pass
		2462	SU	/	1	19.123	>=0.5	Pass
					2	19.137	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	38.257	>=0.5	Pass
					2	38.207	>=0.5	Pass
		2437	SU	/	1	38.262	>=0.5	Pass
					2	38.229	>=0.5	Pass
		2452	SU	/	1	38.213	>=0.5	Pass
					2	38.213	>=0.5	Pass
802.11be (EHT20)	MIMO	2412	SU	/	1	15.921	>=0.5	Pass
					2	16.711	>=0.5	Pass
		2437	SU	/	1	15.266	>=0.5	Pass
					2	16.072	>=0.5	Pass
		2462	SU	/	1	13.840	>=0.5	Pass
					2	15.501	>=0.5	Pass
802.11be (EHT40)	MIMO	2422	SU	/	1	36.134	>=0.5	Pass
					2	35.572	>=0.5	Pass
		2437	SU	/	1	35.141	>=0.5	Pass
					2	35.113	>=0.5	Pass
		2452	SU	/	1	33.842	>=0.5	Pass

					2	33.614	>=0.5	Pass

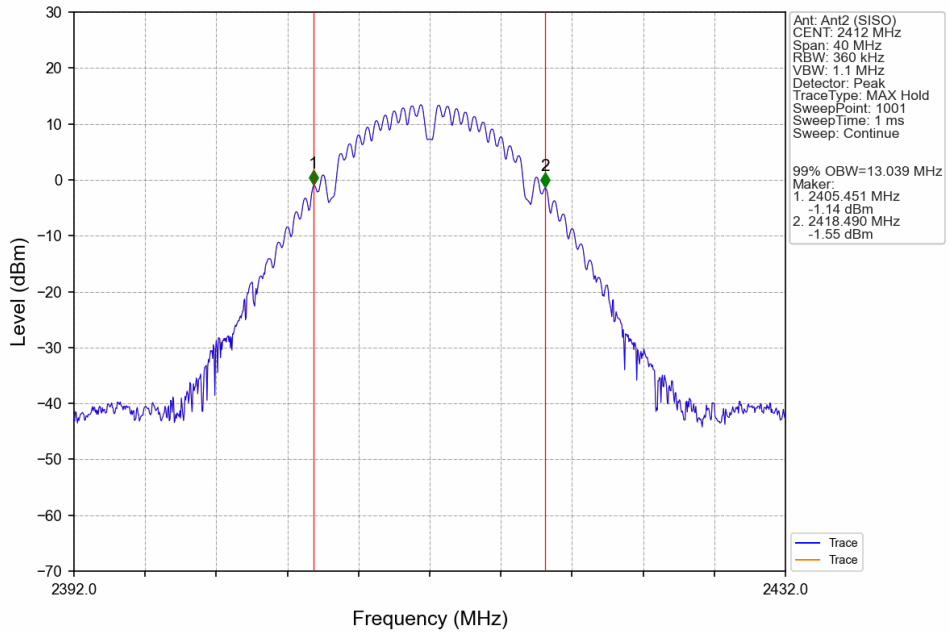
2.2 Test Graph

2.2.1 OBW

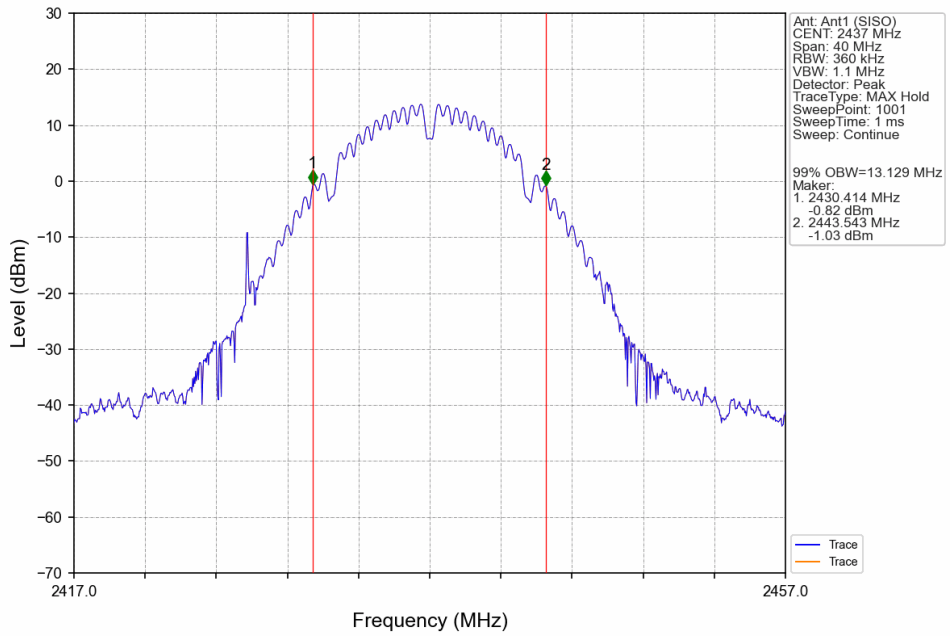
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



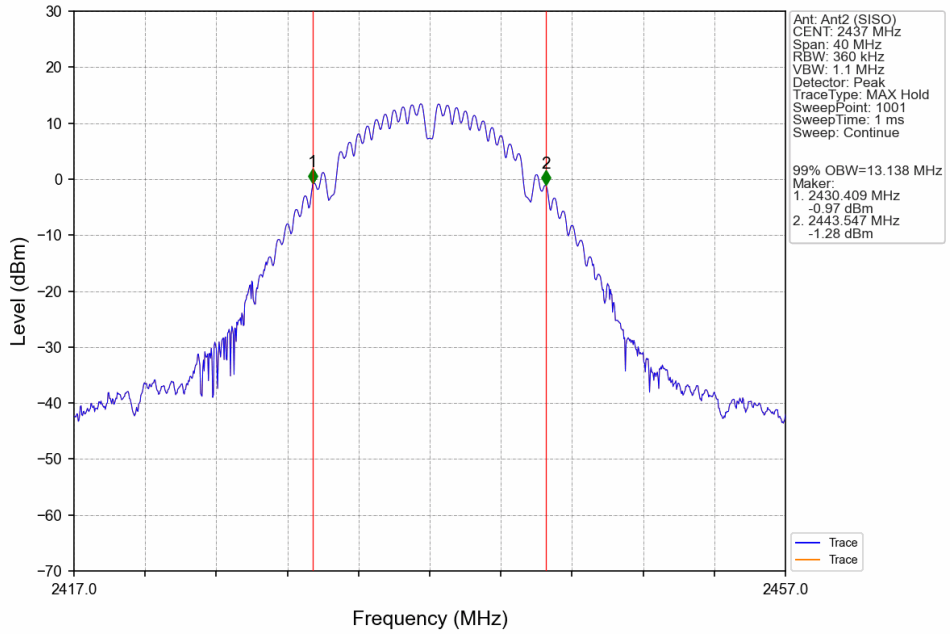
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV


Ant: Ant2 (SISO)
CENT: 2412 MHz
Span: 40 MHz
RBW: 360 kHz
VBW: 1.1 MHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Continue
99% OBW=13.039 MHz
Maker:
1. 2405.451 MHz
-1.14 dBm
2. 2418.490 MHz
-1.55 dBm
Trace
Trace
Level (dBm)
Frequency (MHz)
2392.0
2432.0
30
20
10
0
−10
−20
−30
−40
−50
−60
−70
1
2

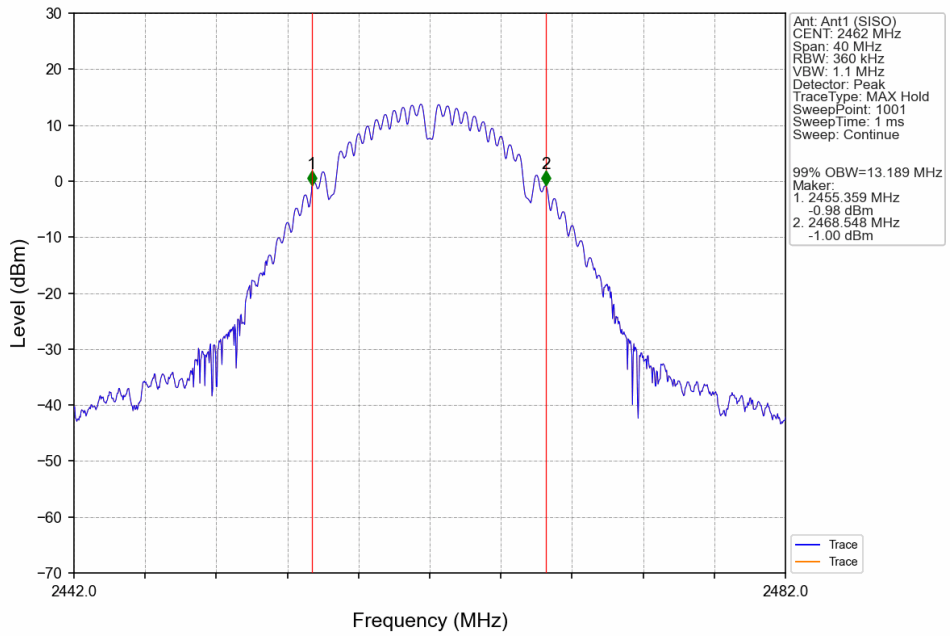
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



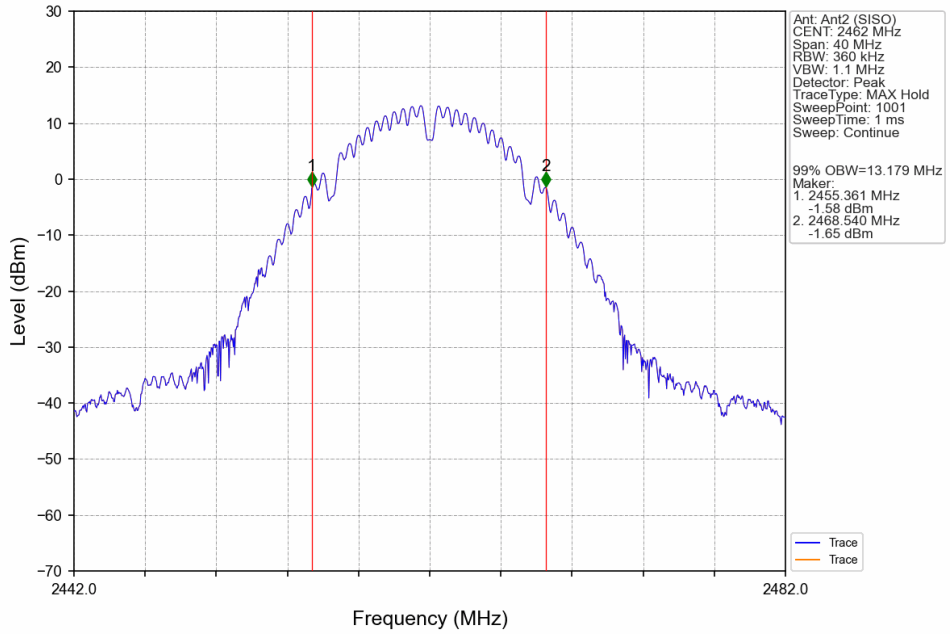
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



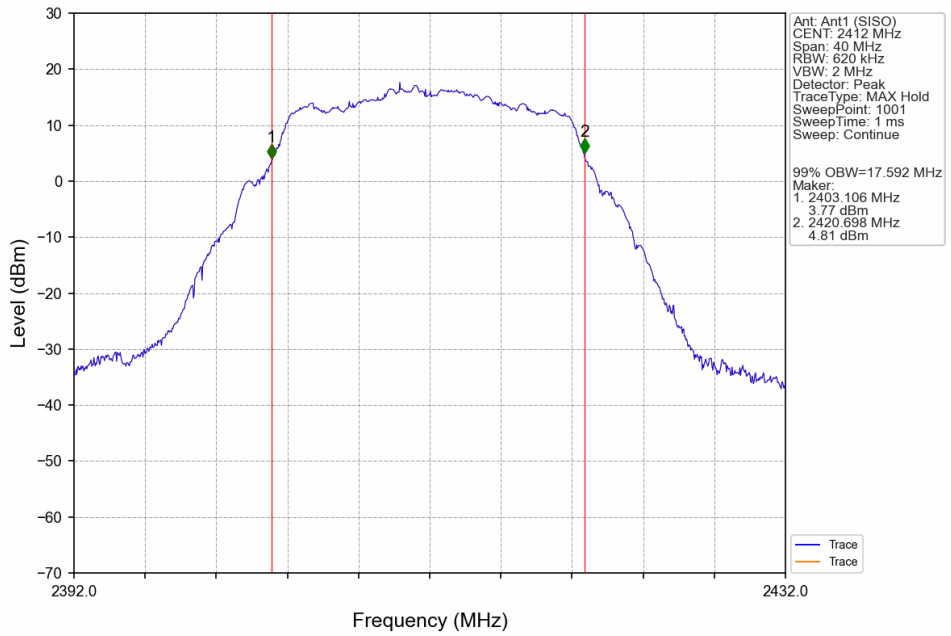
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



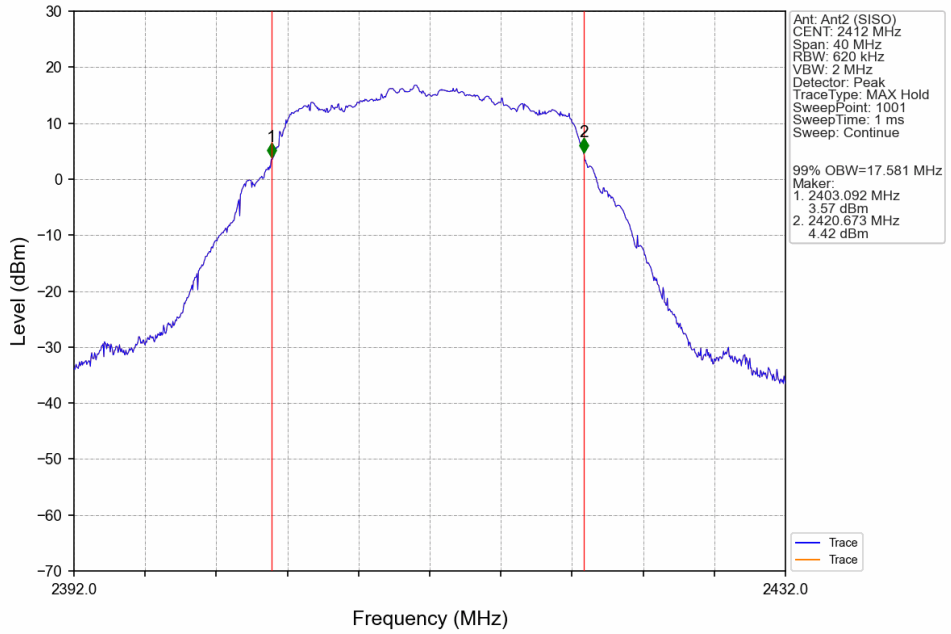
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



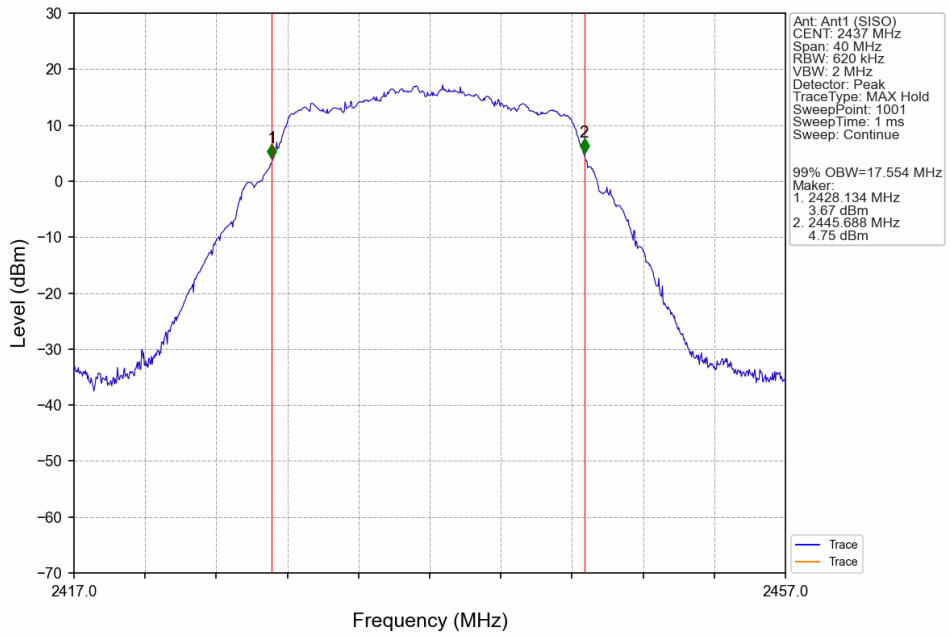
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



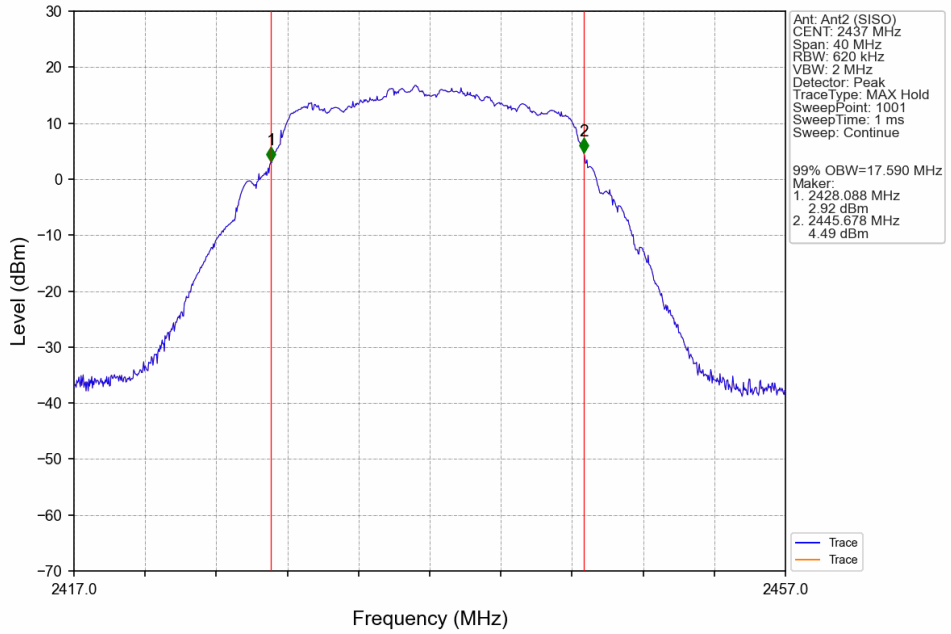
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



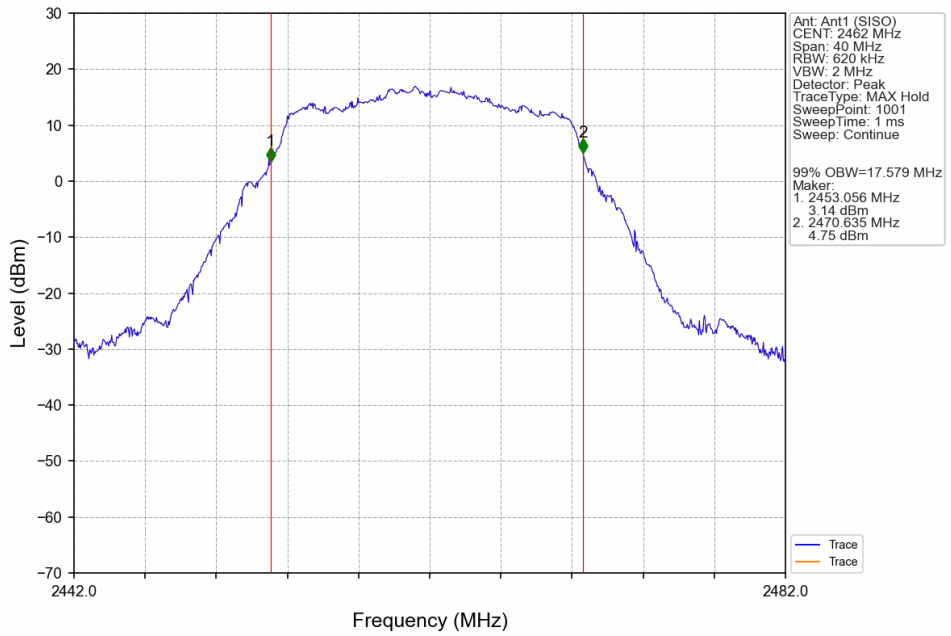
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



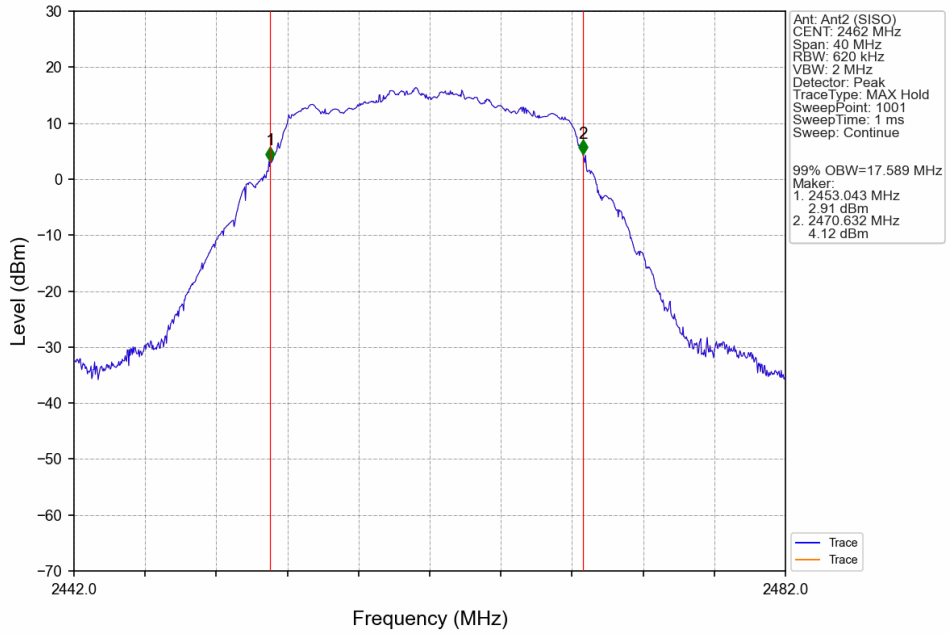
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



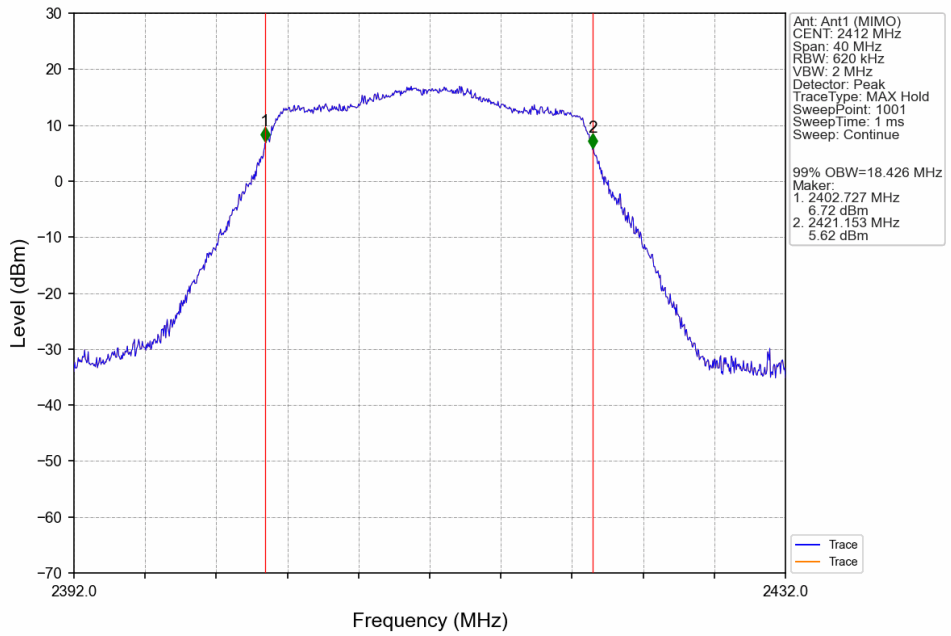
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



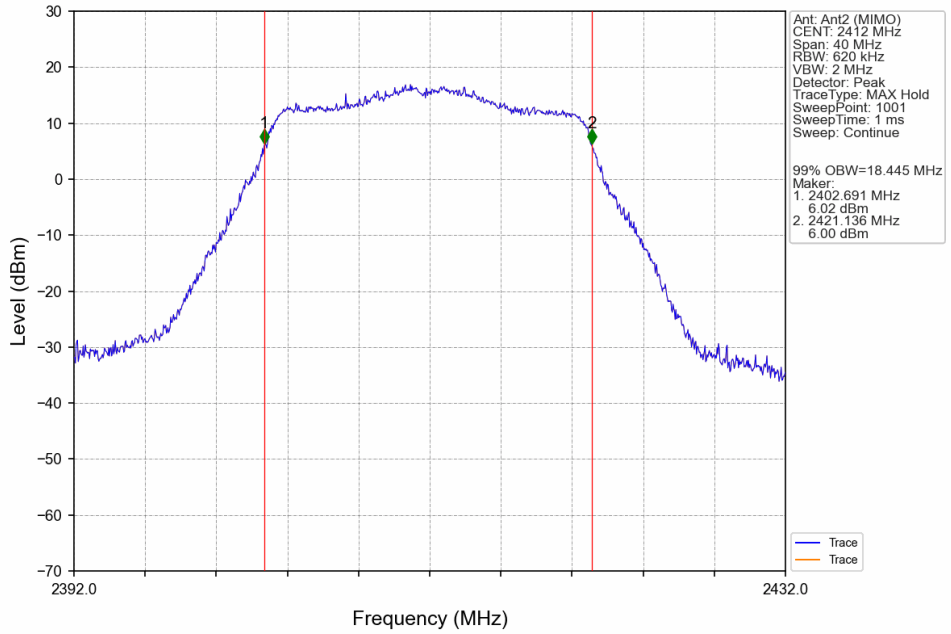
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



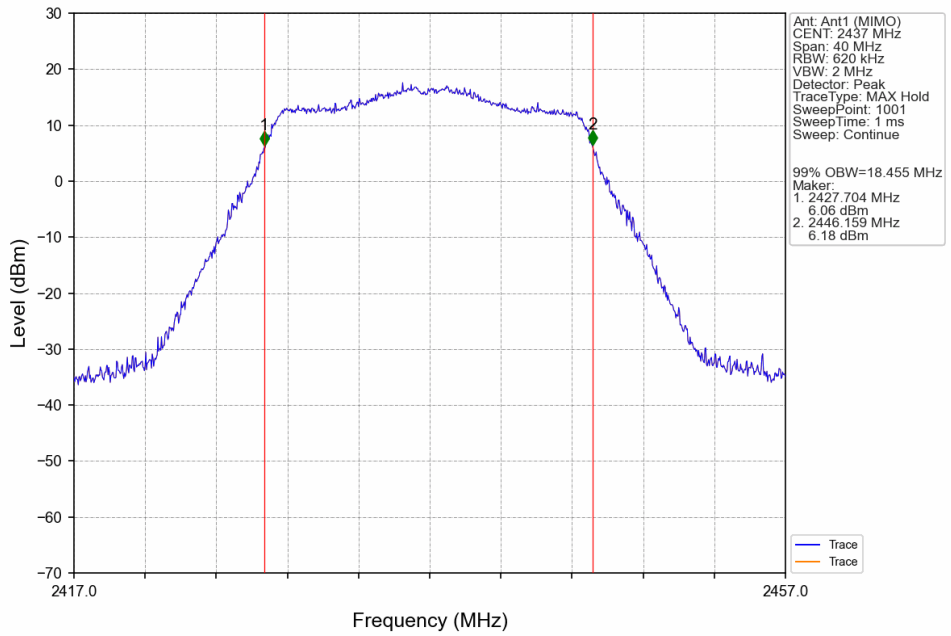
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



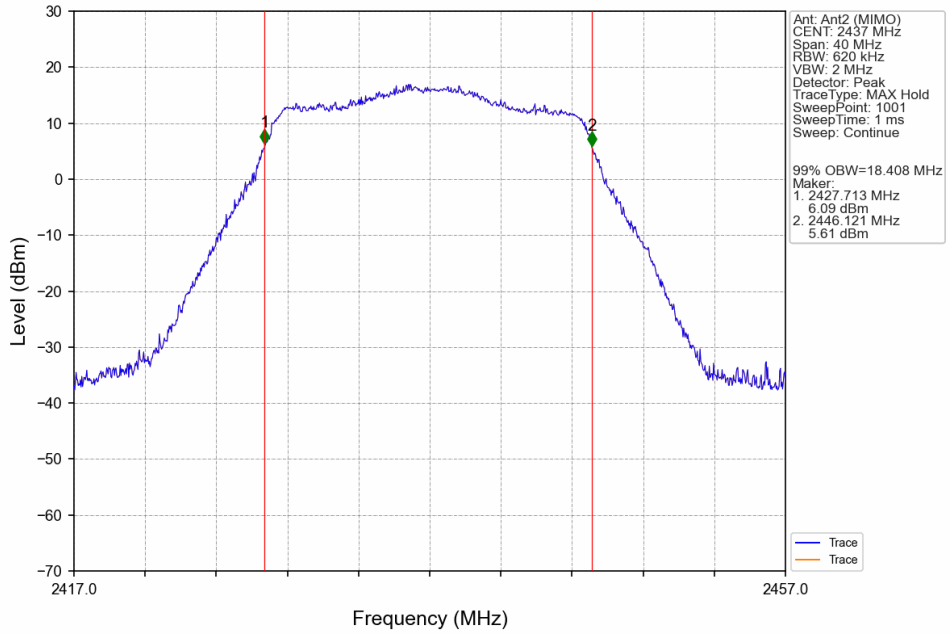
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



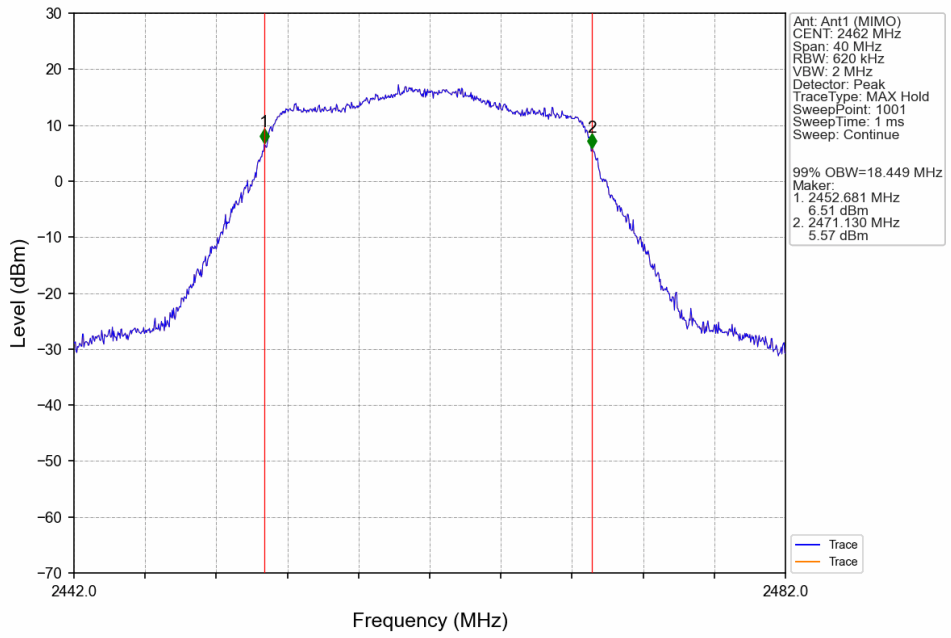
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



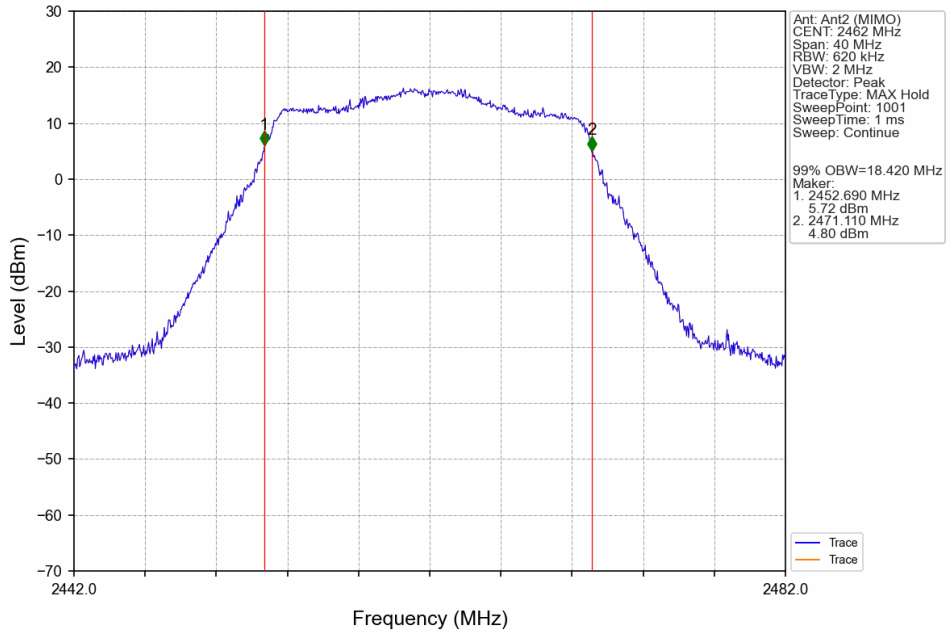
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



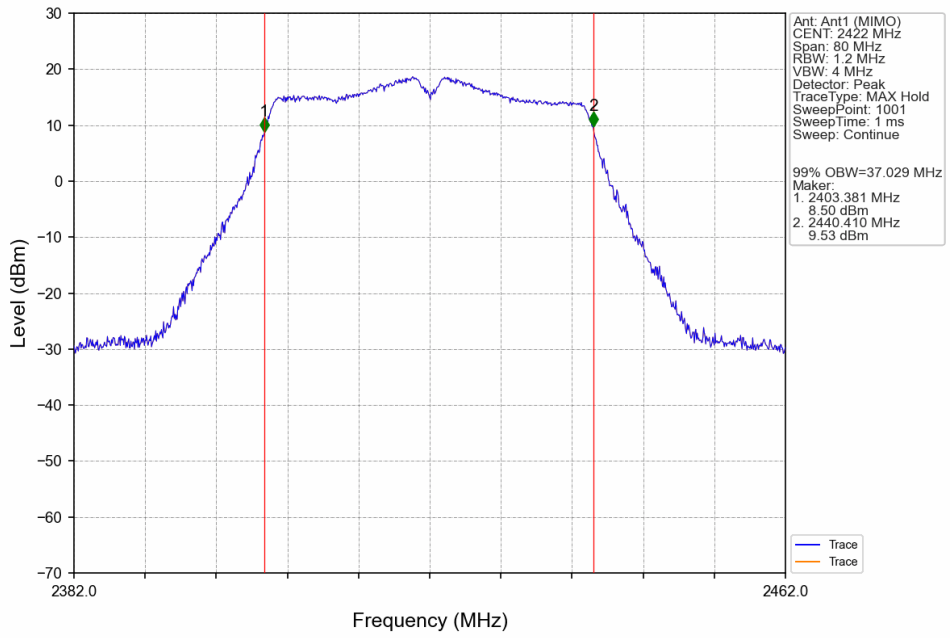
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



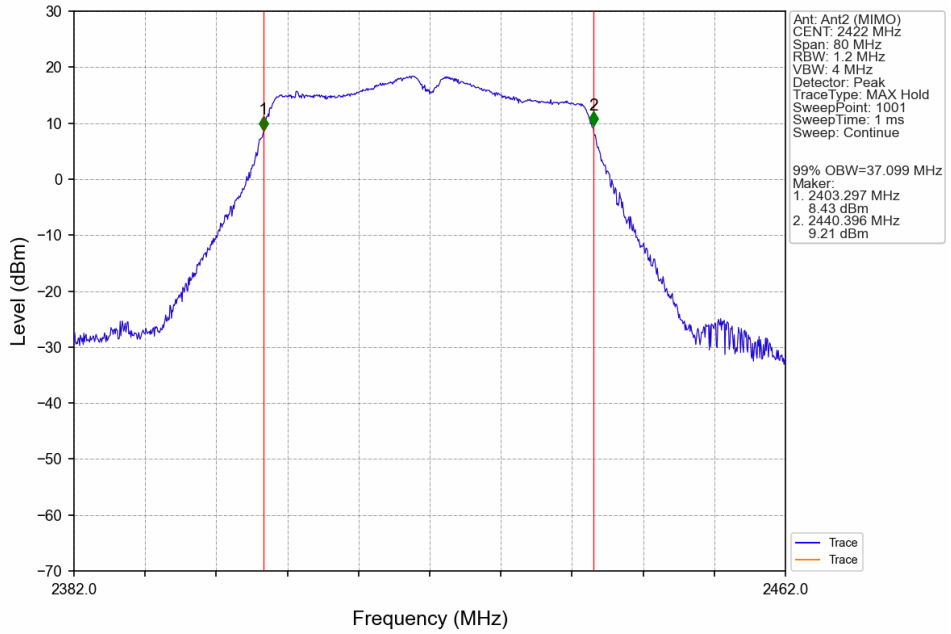
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



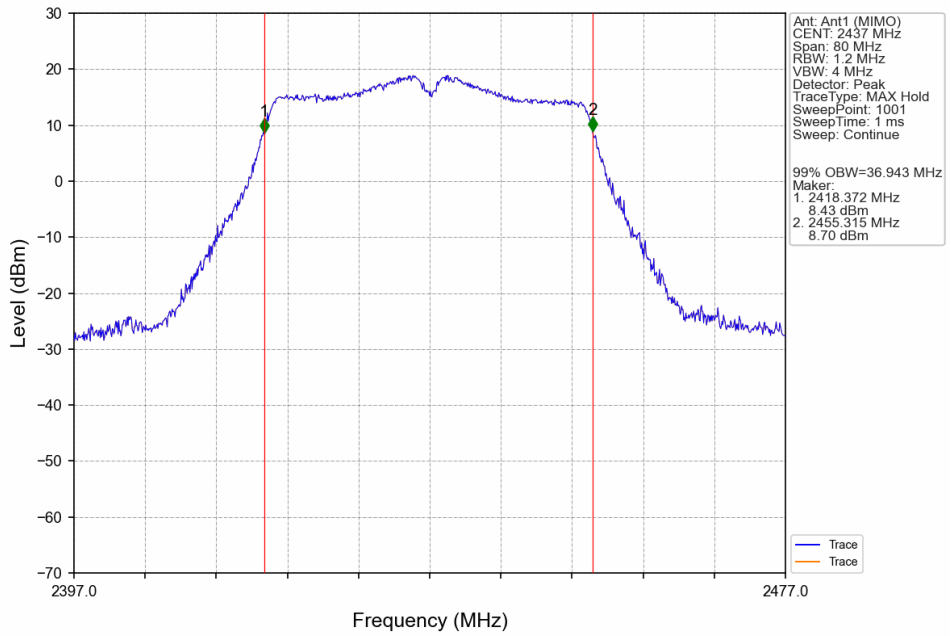
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



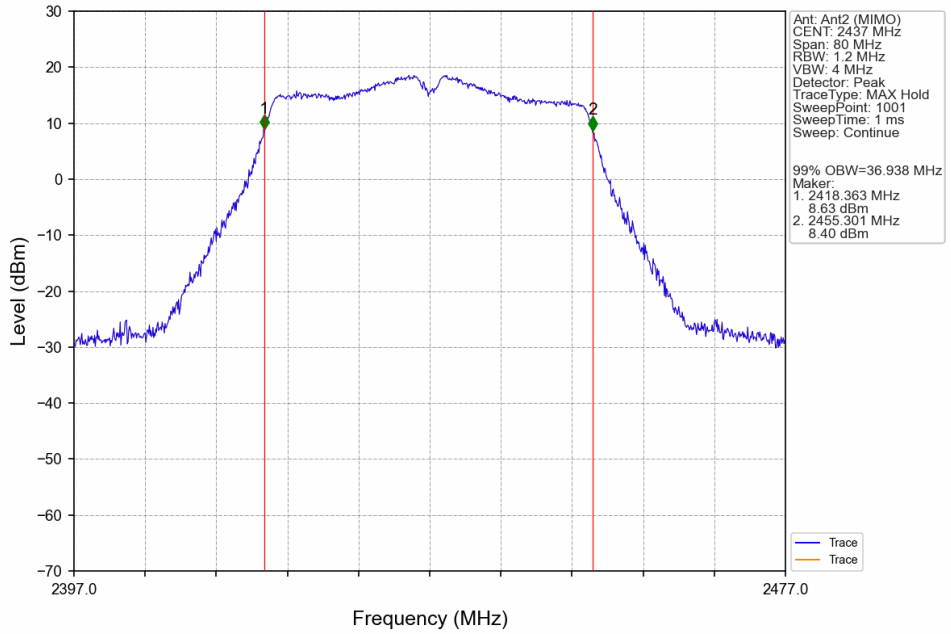
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



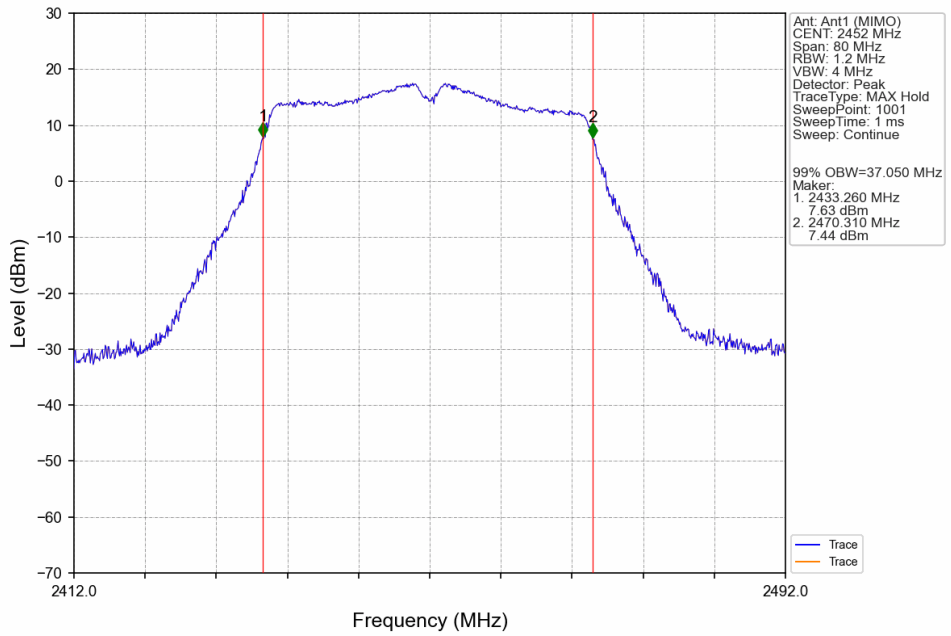
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



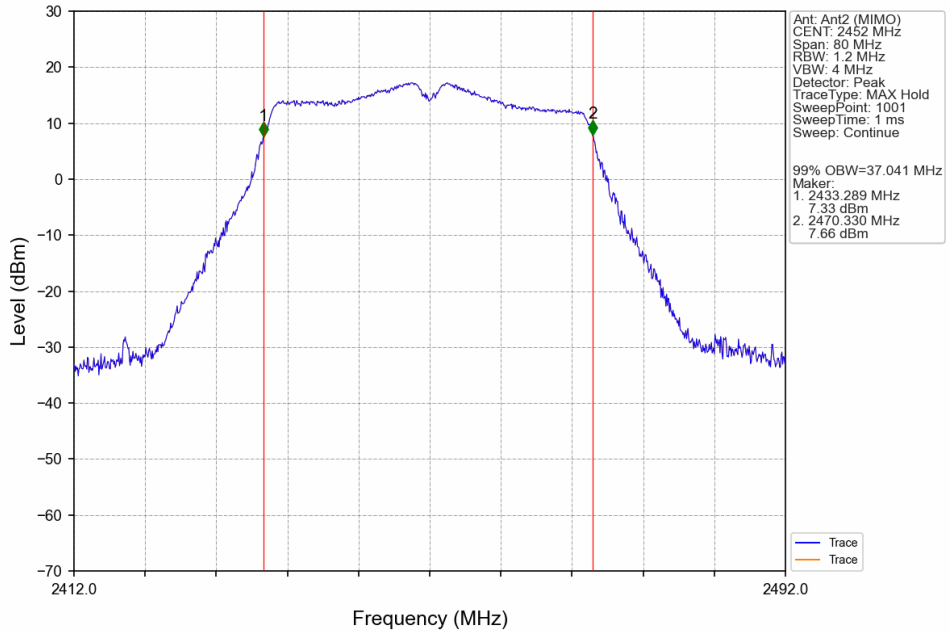
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



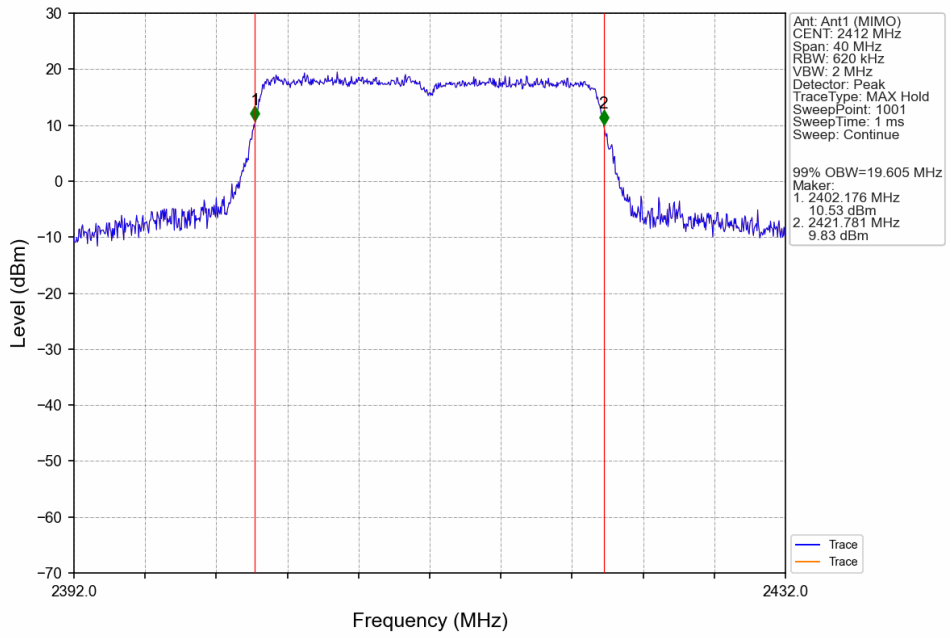
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



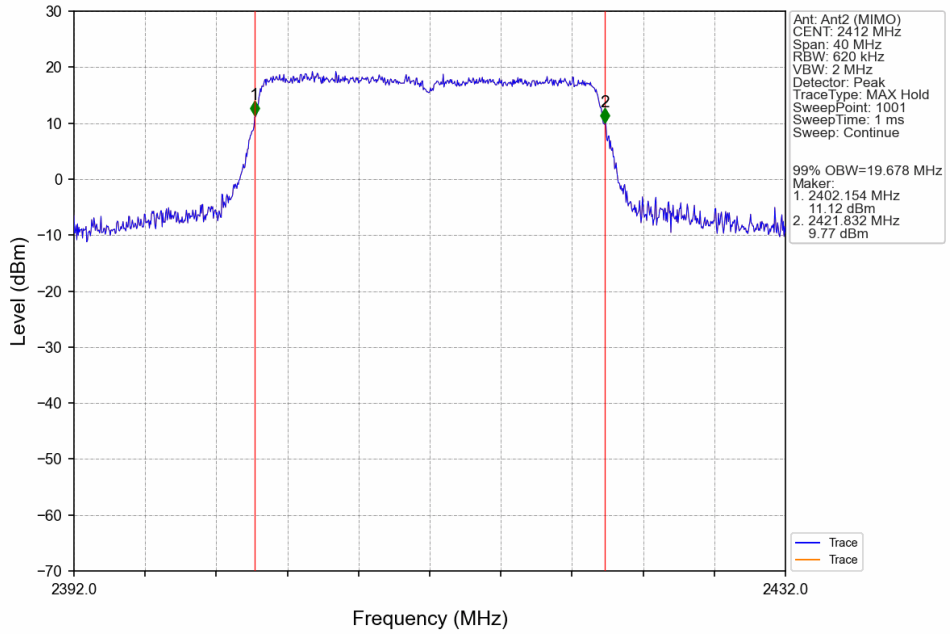
802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



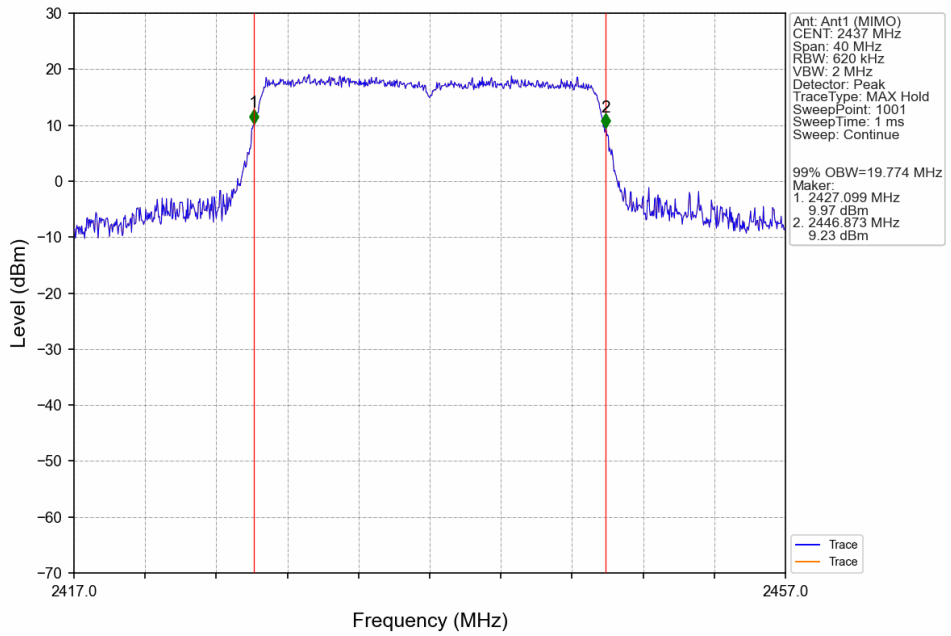
802.11ax(HEW20)_LCH_2412MHz_SU_ / _Ant1 (MIMO)_NTNV



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



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



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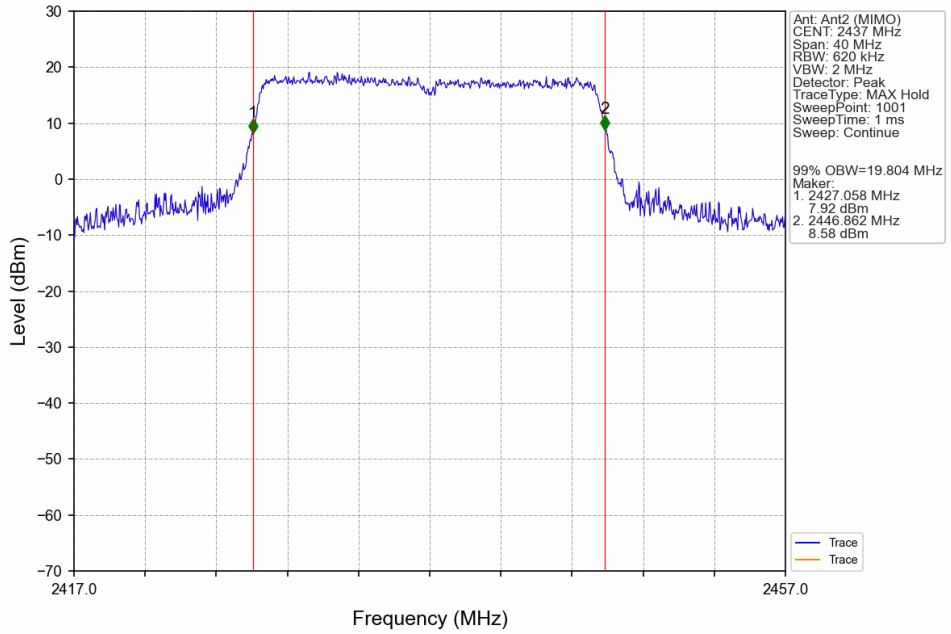

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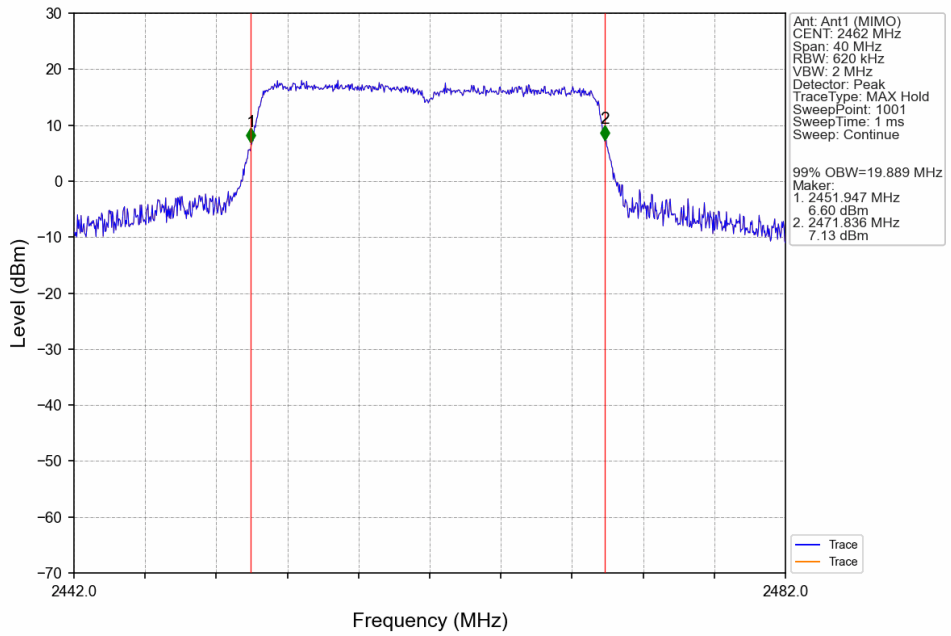
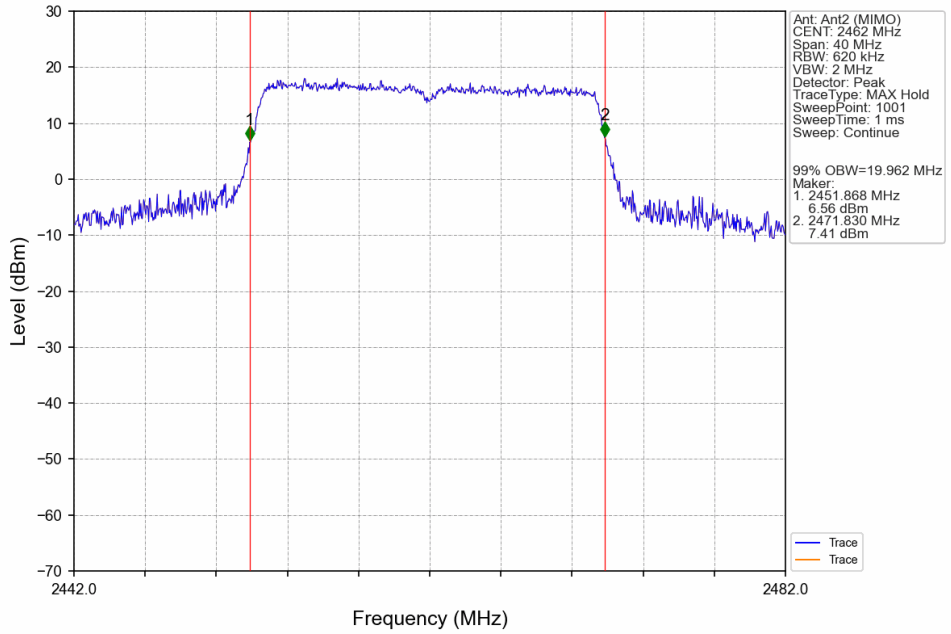
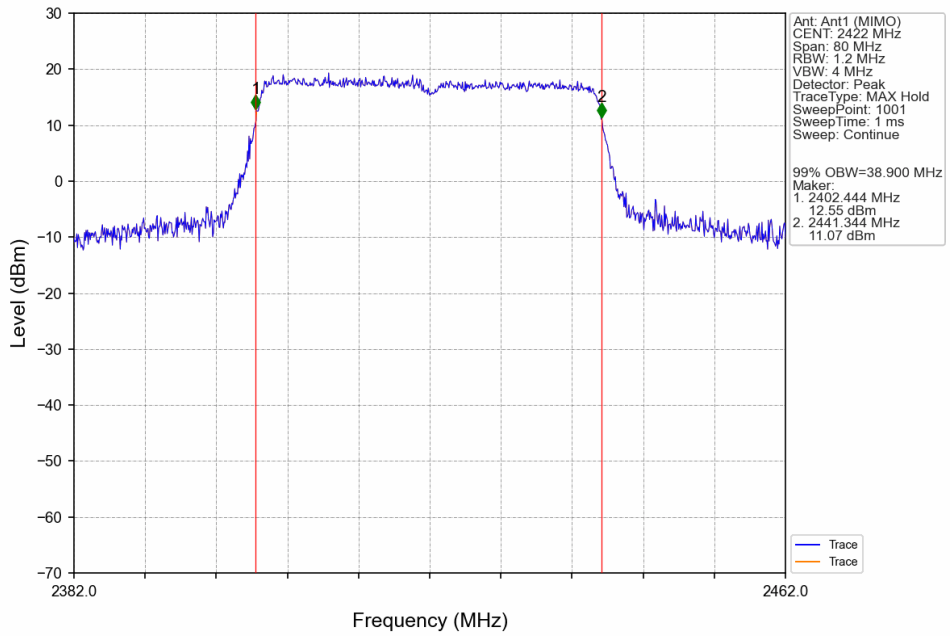


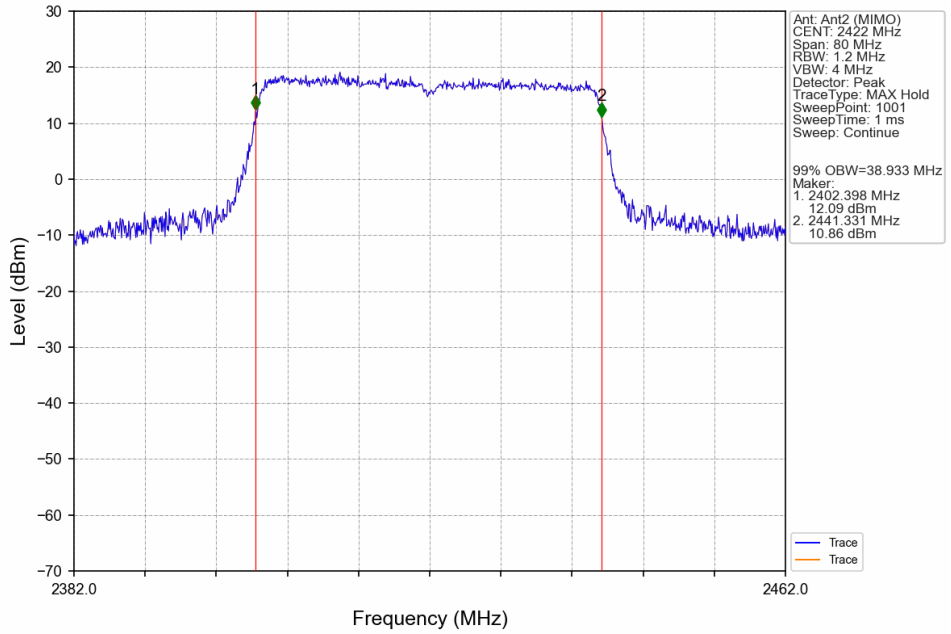
802.11ax(HEW20)_HCH_2462MHz_SU_ / _Ant2 (MIMO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_SU_ / _Ant1 (MIMO)_NTNV



802.11ax(HEW40)_LCH_2422MHz_SU_ / _Ant2 (MIMO)_NTNV



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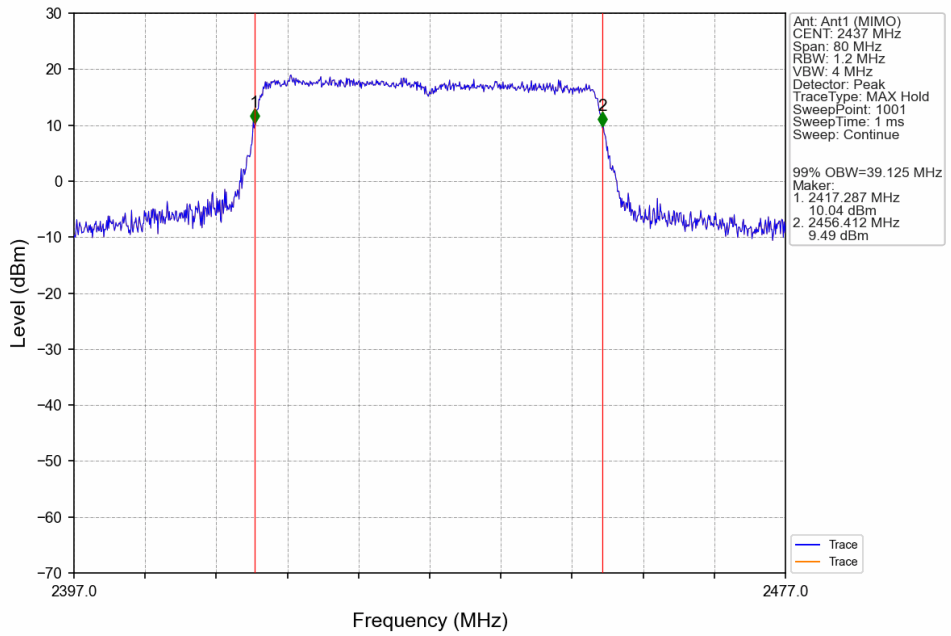
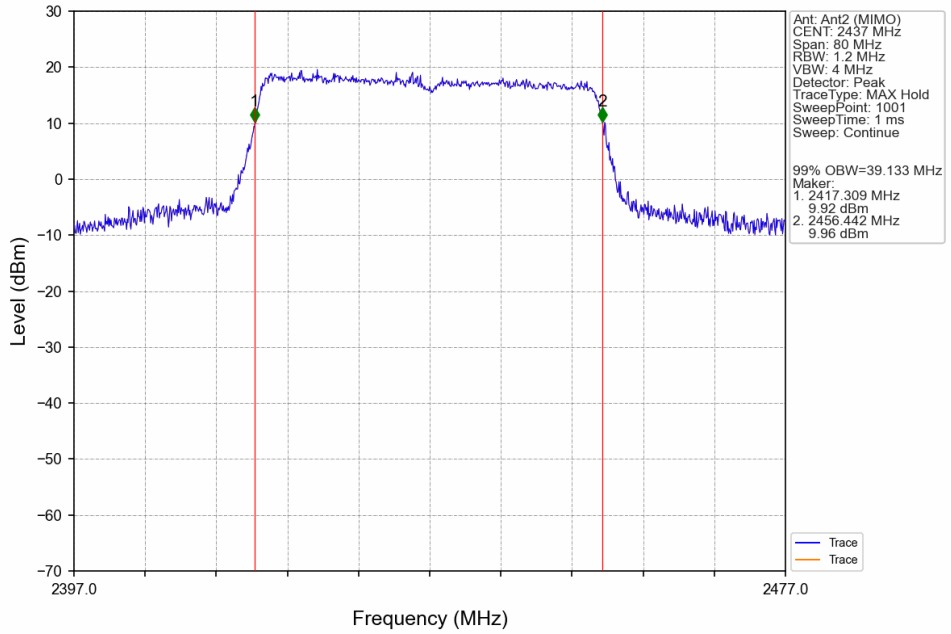
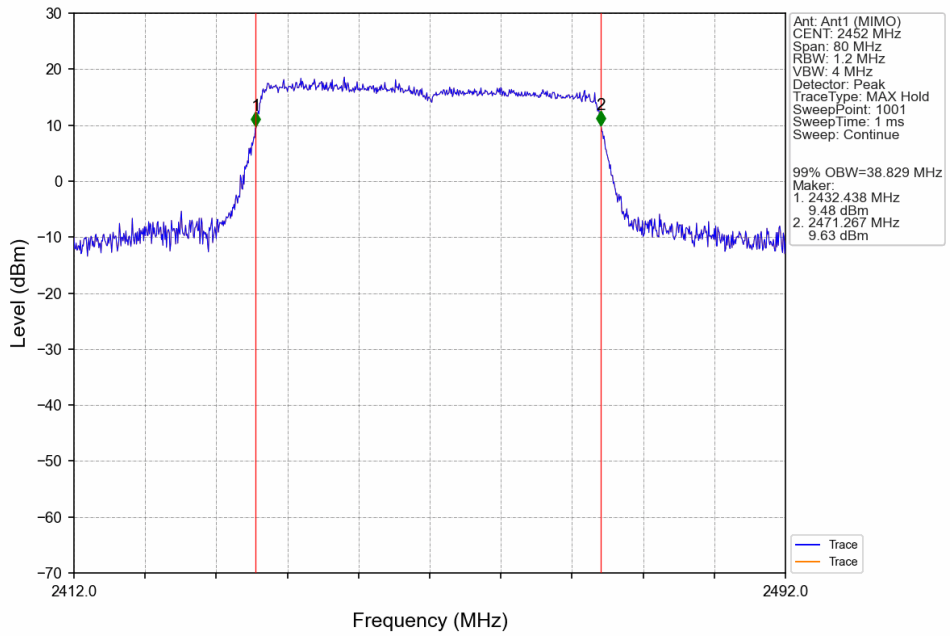


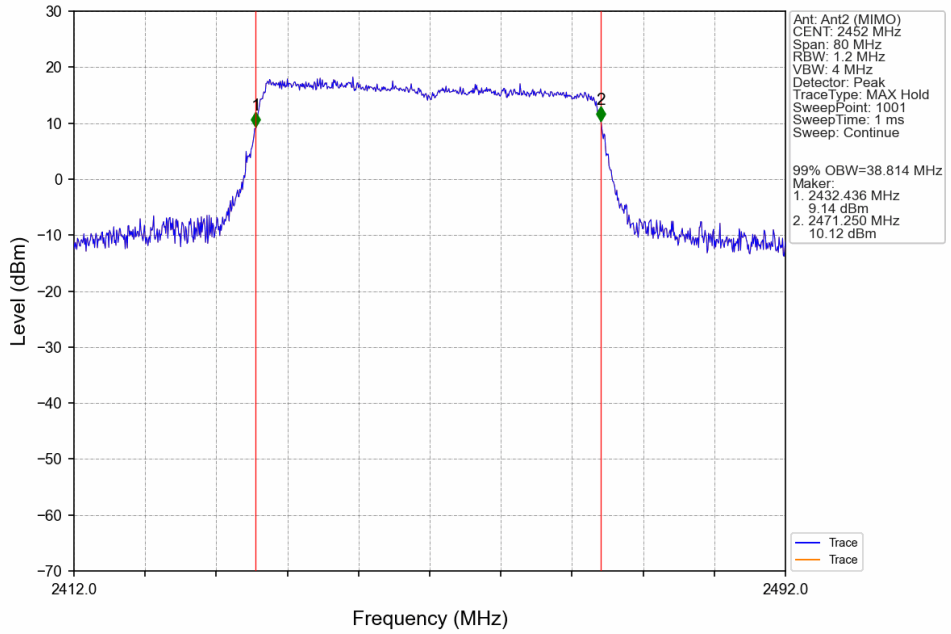
802.11ax(HEW40)_MCH_2437MHz_SU_ / _Ant2 (MIMO)_NTNV



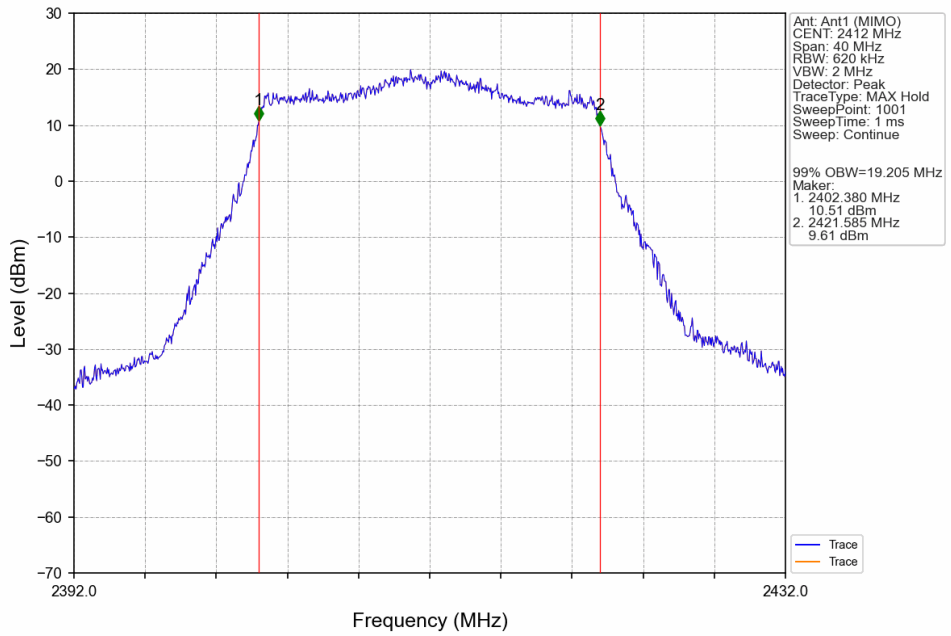
802.11ax(HEW40)_HCH_2452MHz_SU_ / _Ant1 (MIMO)_NTNV



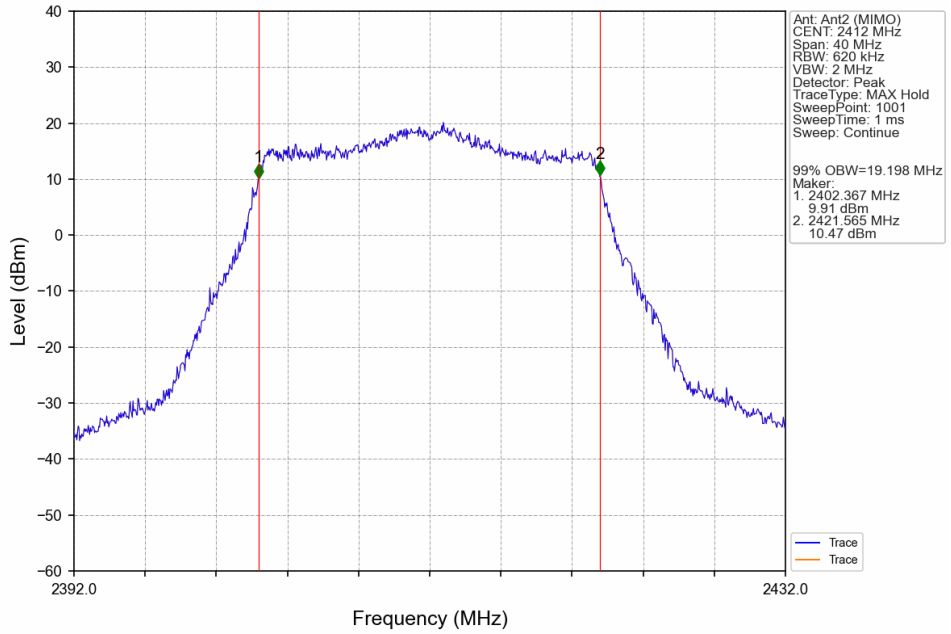
802.11ax(HEW40)_HCH_2452MHz_SU_ / _Ant2 (MIMO)_NTNV



802.11be(EHT20)_LCH_2412MHz_SU_ / _Ant1 (MIMO)_NTNV



802.11be(EHT20)_LCH_2412MHz_SU_ / _Ant2 (MIMO)_NTNV



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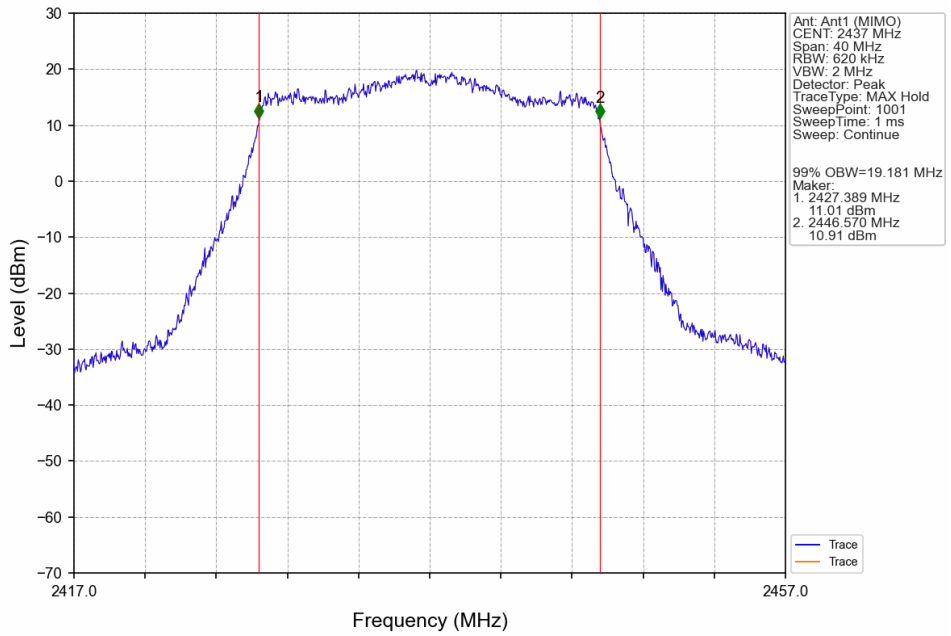
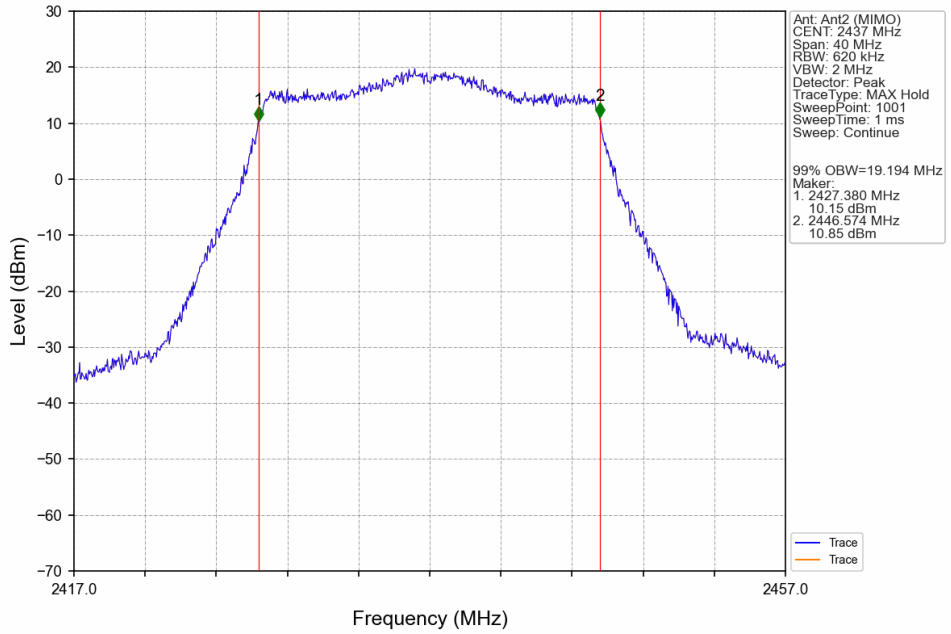
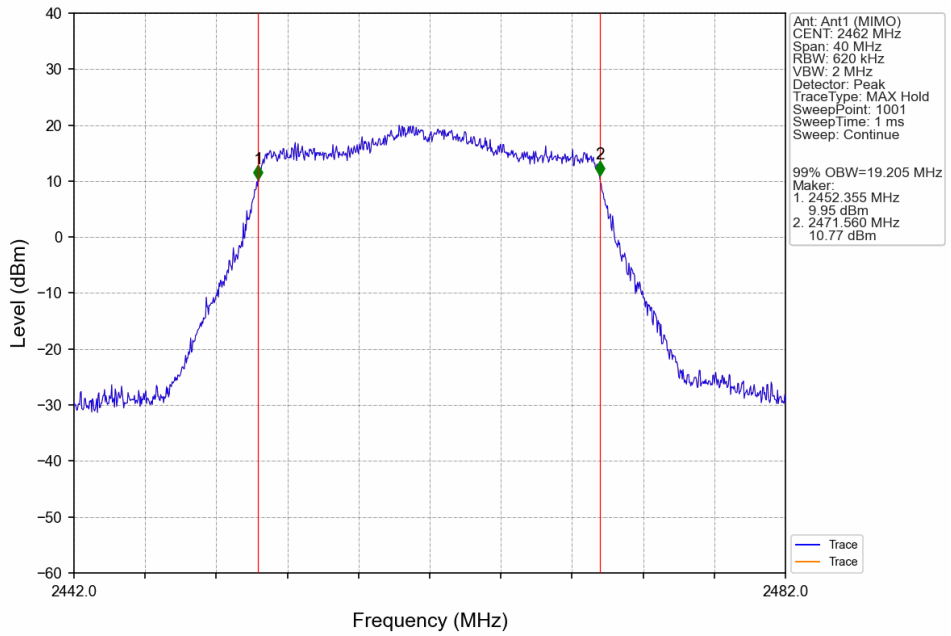


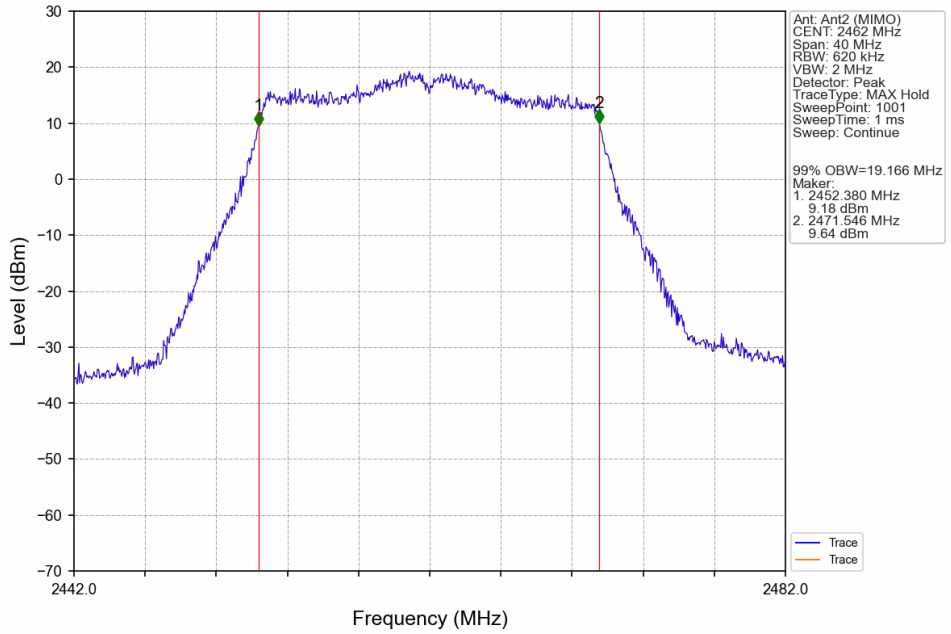
802.11be(EHT20)_MCH_2437MHz_SU_ / _Ant2 (MIMO)_NTNV



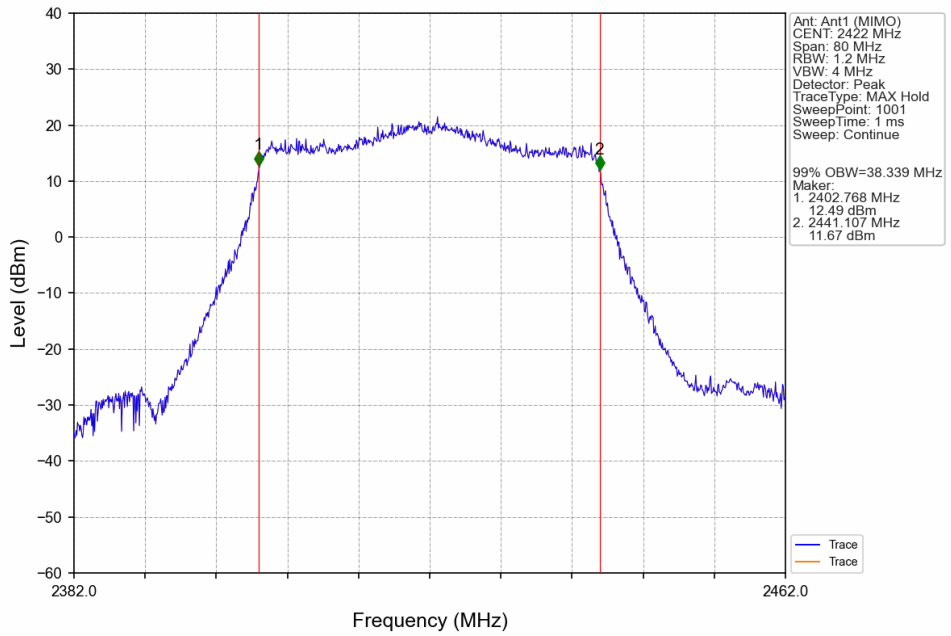
802.11be(EHT20)_HCH_2462MHz_SU_ / _Ant1 (MIMO)_NTNV



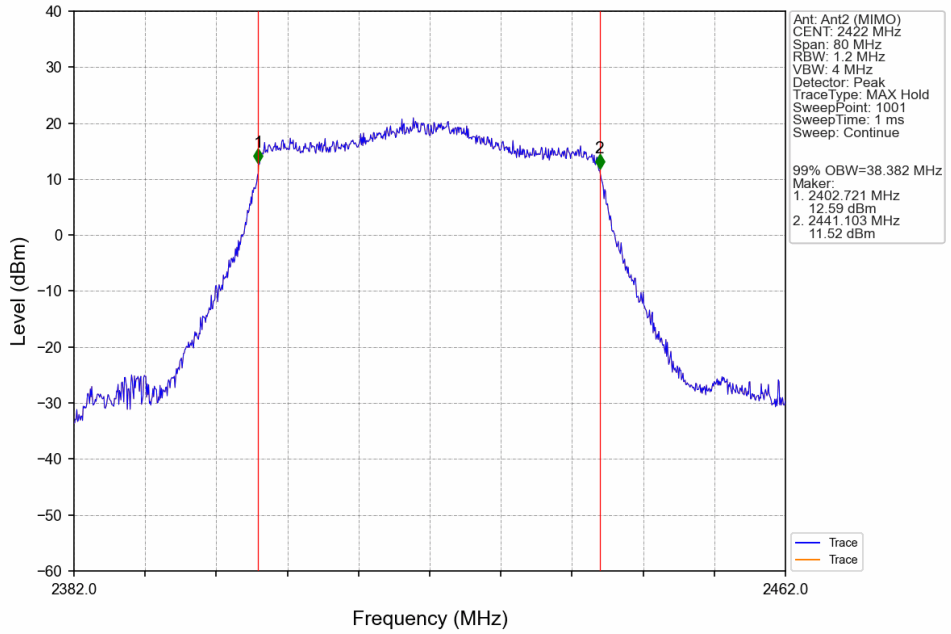
802.11be(EHT20)_HCH_2462MHz_SU_ / _Ant2 (MIMO)_NTNV



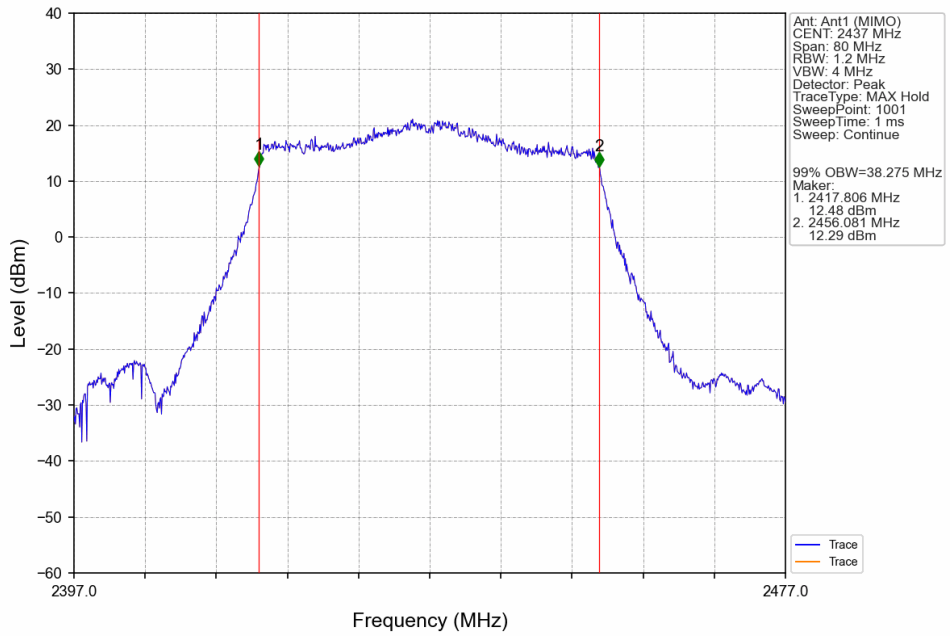
802.11be(EHT40)_LCH_2422MHz_SU_ / _Ant1 (MIMO)_NTNV



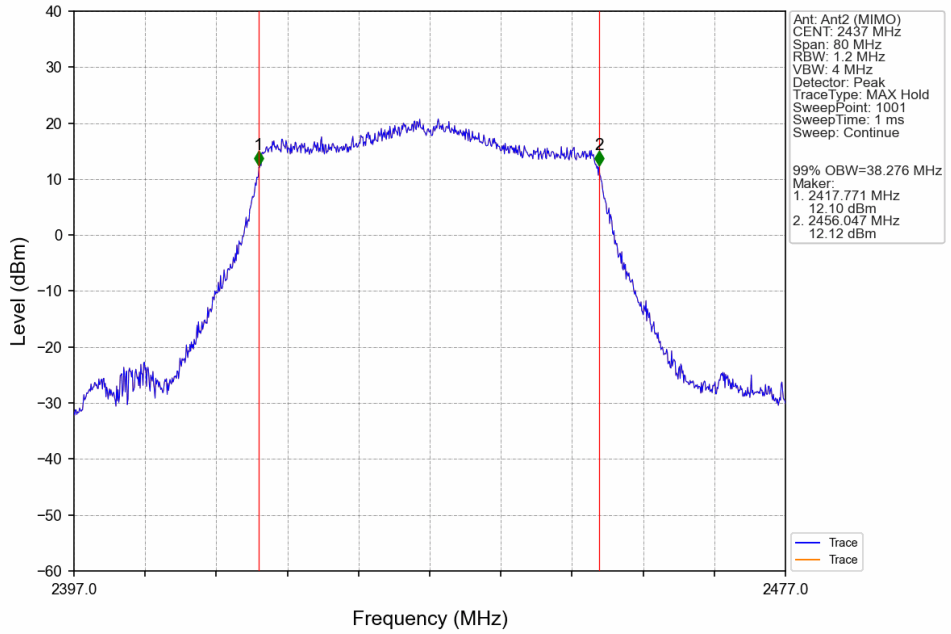
802.11be(EHT40)_LCH_2422MHz_SU_ / _Ant2 (MIMO)_NTNV



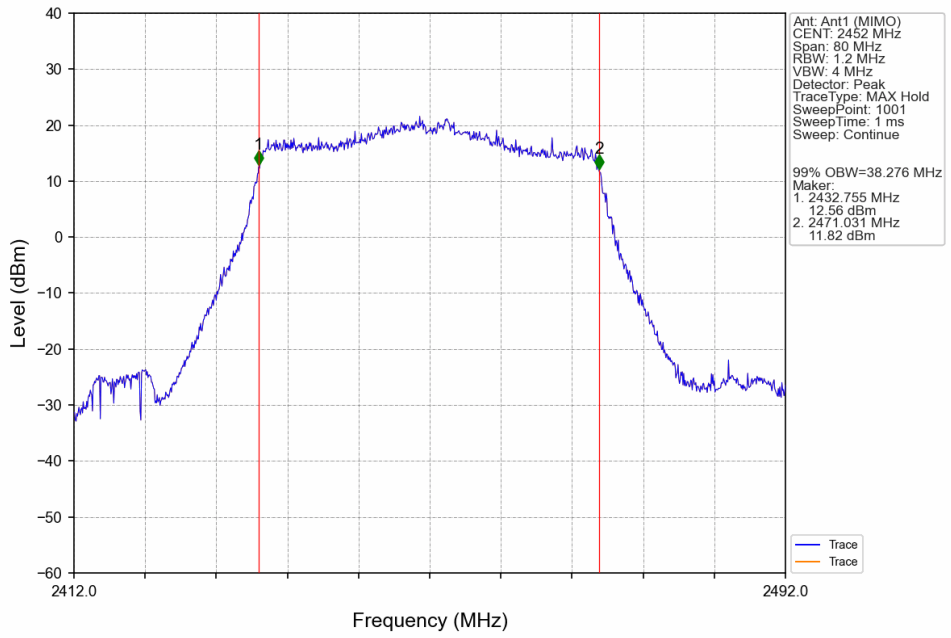
802.11be(EHT40)_MCH_2437MHz_SU_ / _Ant1 (MIMO)_NTNV



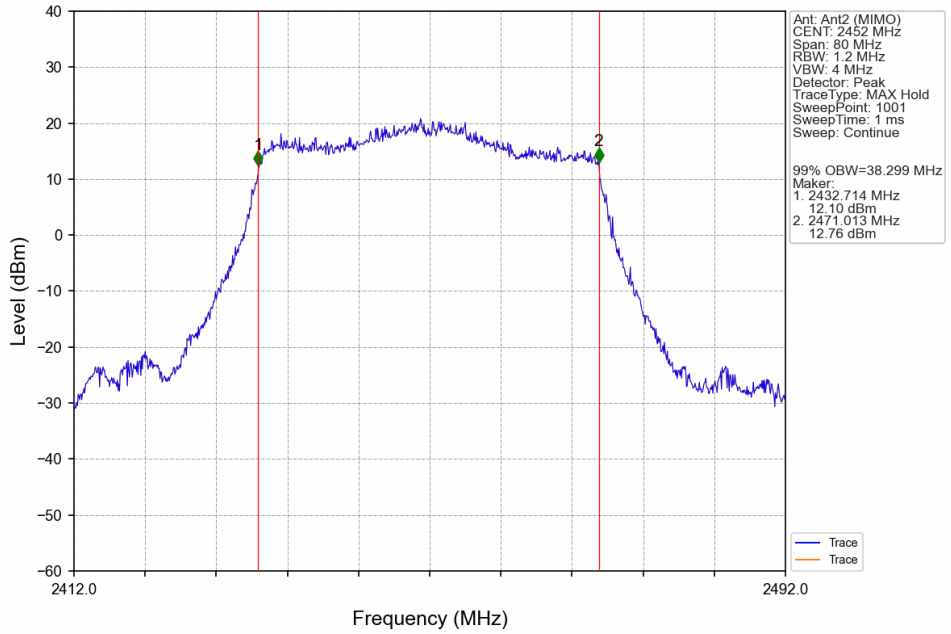
802.11be(EHT40)_MCH_2437MHz_SU_ / _Ant2 (MIMO)_NTNV



802.11be(EHT40)_HCH_2452MHz_SU_ / _Ant1 (MIMO)_NTNV

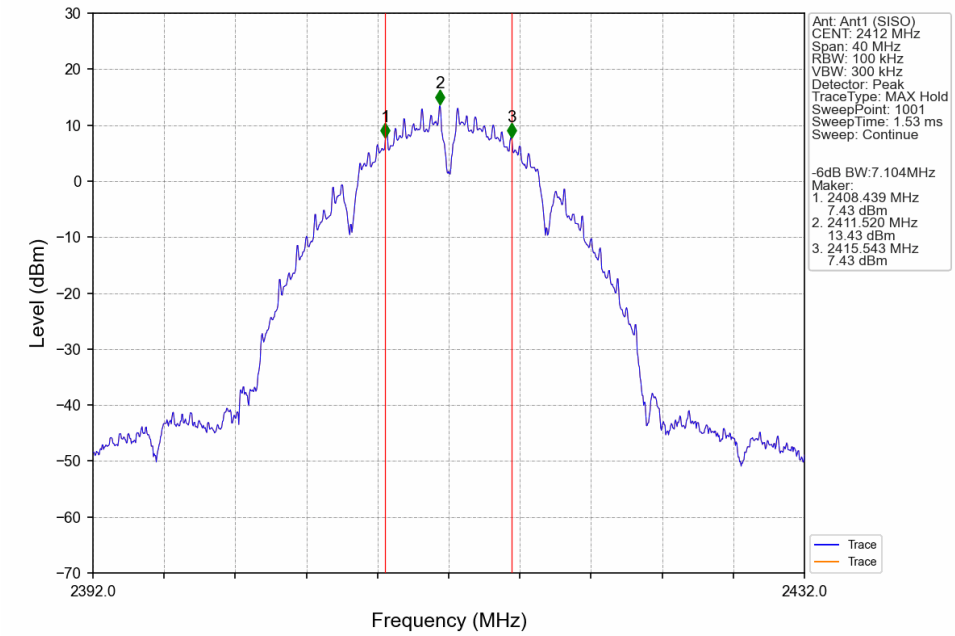


802.11be(EHT40)_HCH_2452MHz_SU_ / _Ant2 (MIMO)_NTNV

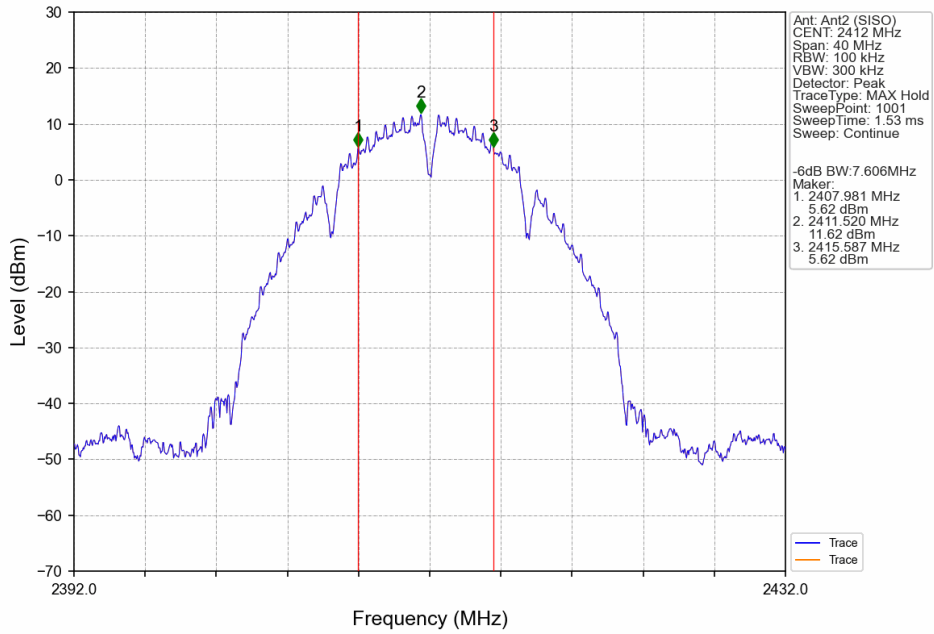


2.2.2 6dB BW

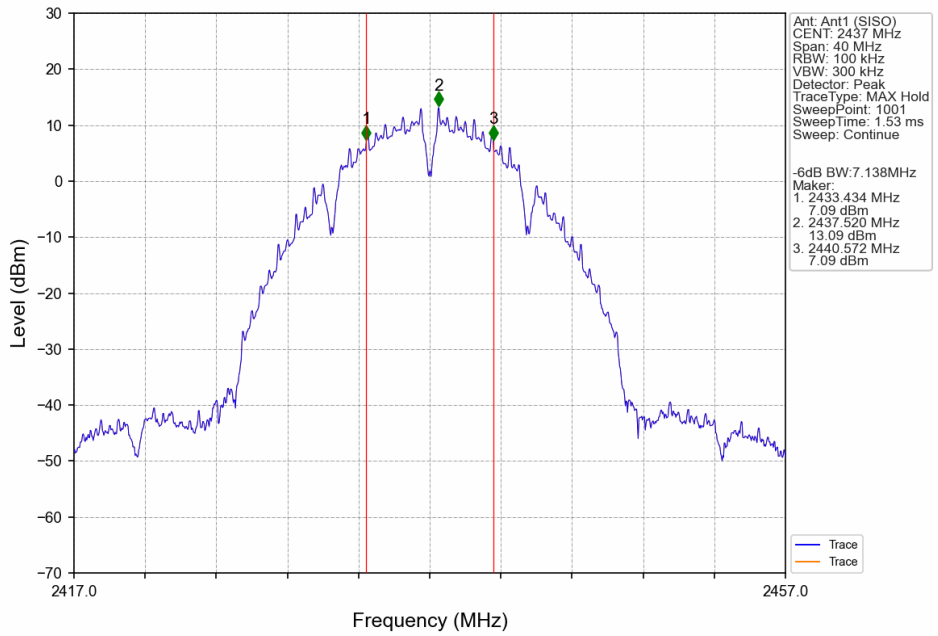
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



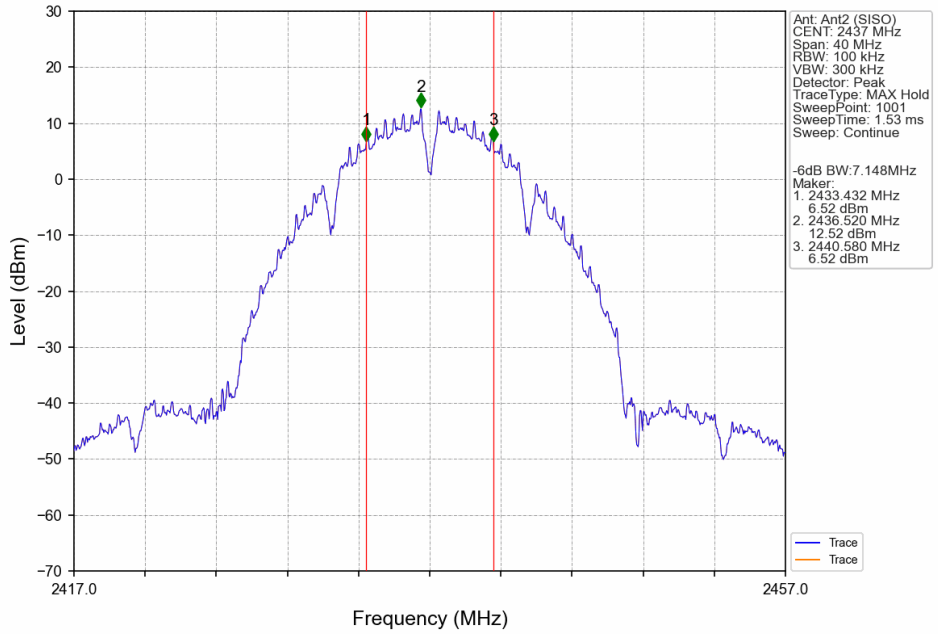
802.11b_LCH_2412MHz_Ant2 (SISO)_NTNV


Ant: Ant2 (SISO)
CENT: 2412 MHz
Span: 40 MHz
RBW: 100 kHz
VBW: 300 kHz
Detector: Peak
TraceType: MAX Hold
SweepPoint: 1001
SweepTime: 1.53 ms
Sweep: Continue
-6dB BW:7.606MHz
Maker:
1. 2407.981 MHz
5.62 dBm
2. 2411.520 MHz
11.62 dBm
3. 2415.587 MHz
5.62 dBm
Trace
Trace
Level (dBm)
Frequency (MHz)
2392.0
2432.0
30
20
10
0
−10
−20
−30
−40
−50
−60
−70
1
2
3

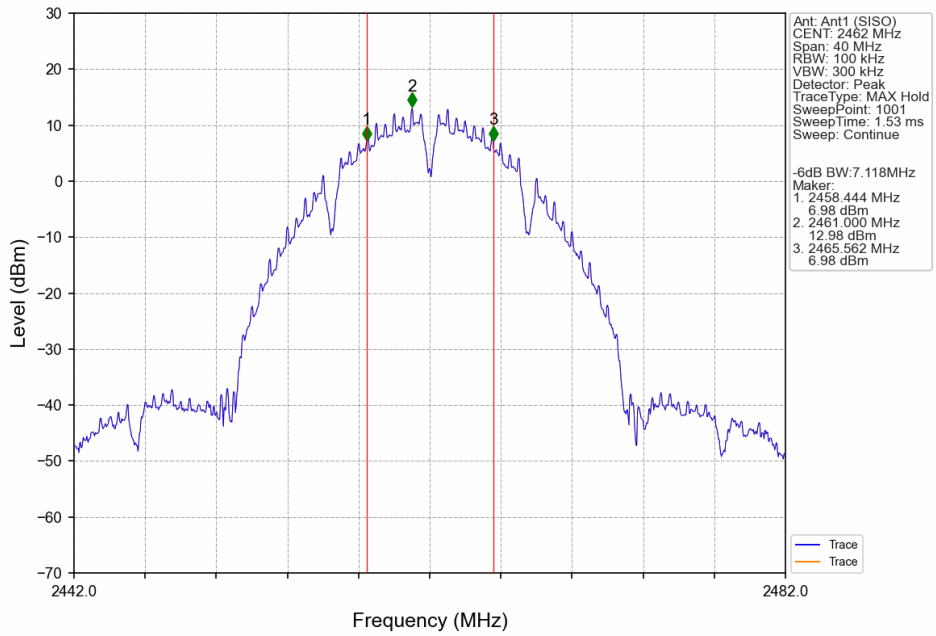
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



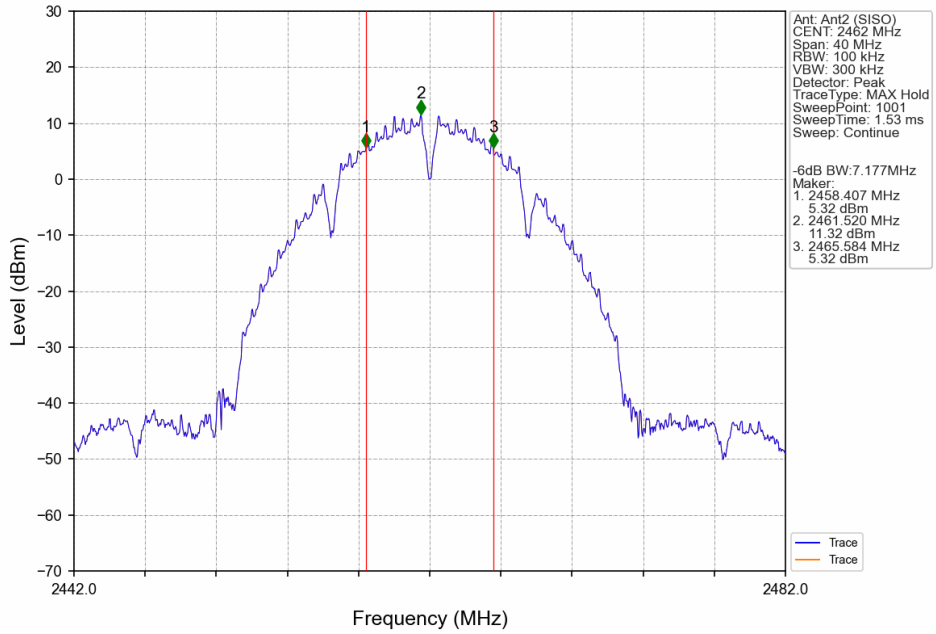
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



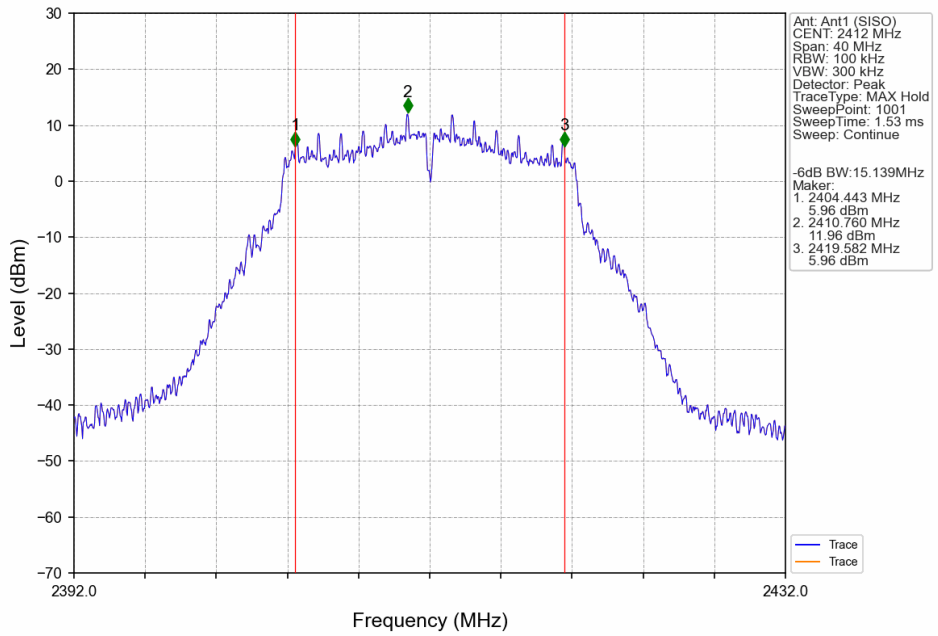
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



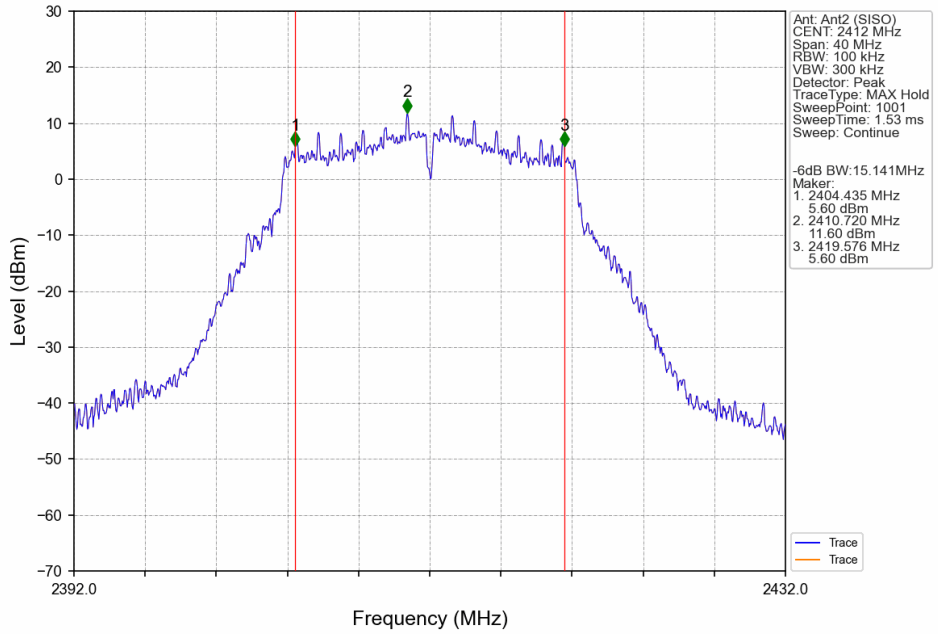
802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV



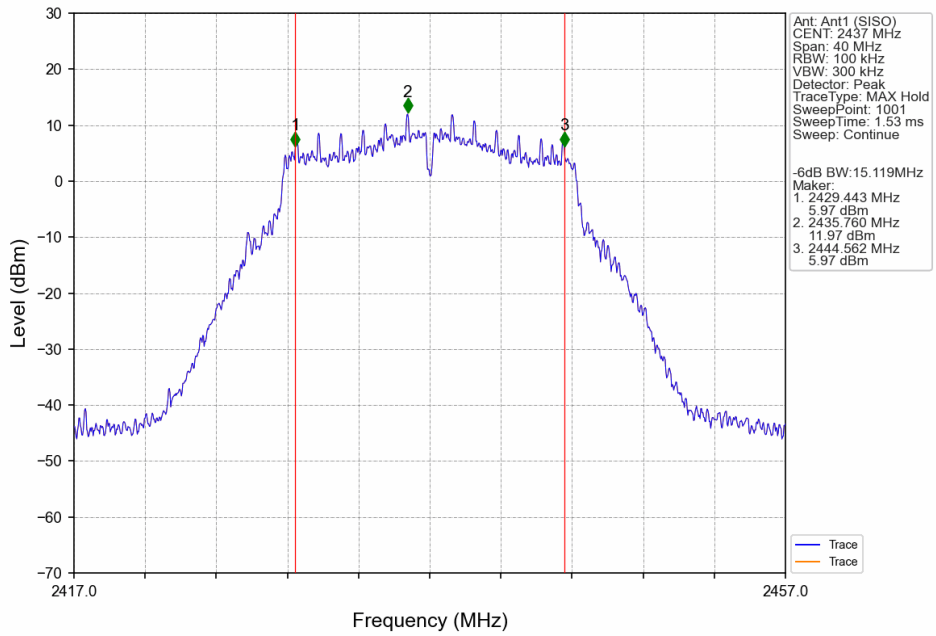
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



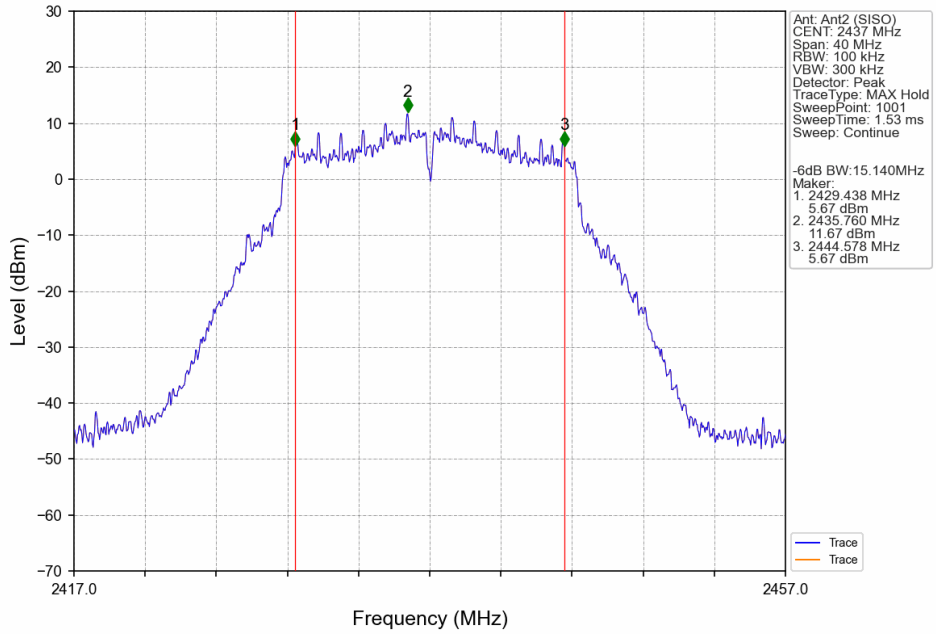
802.11g_LCH_2412MHz_Ant2 (SISO)_NTNV



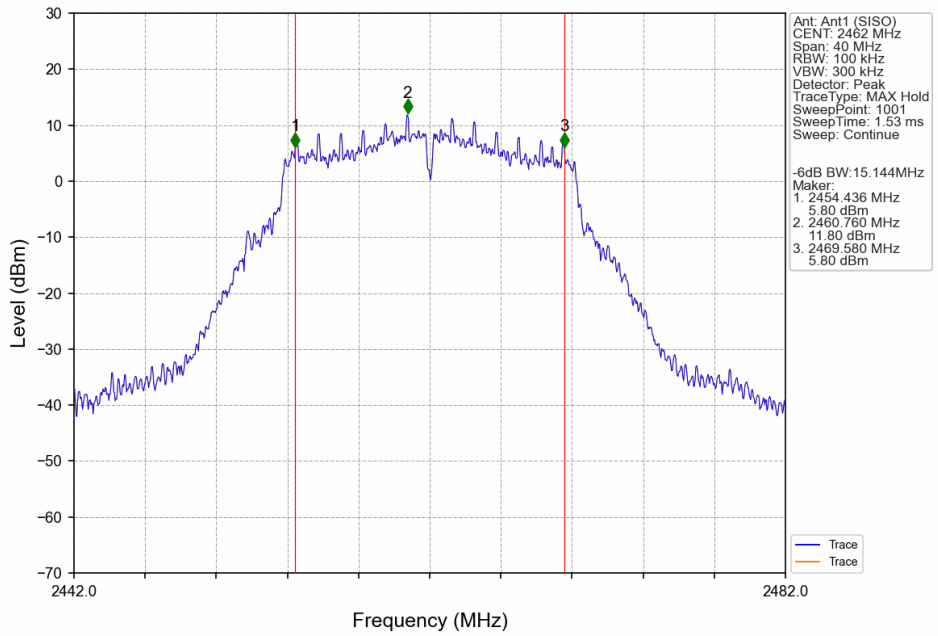
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



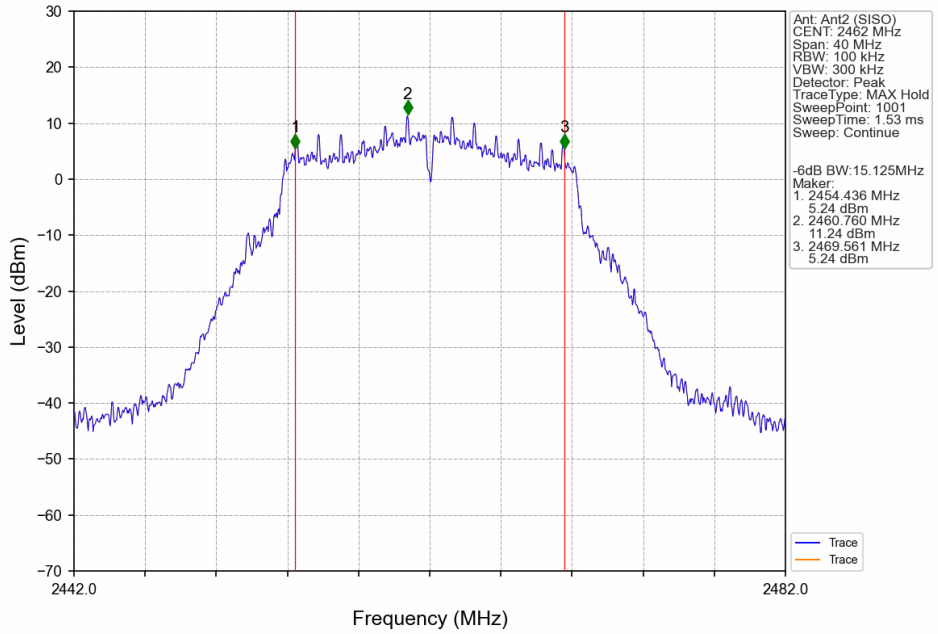
802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV



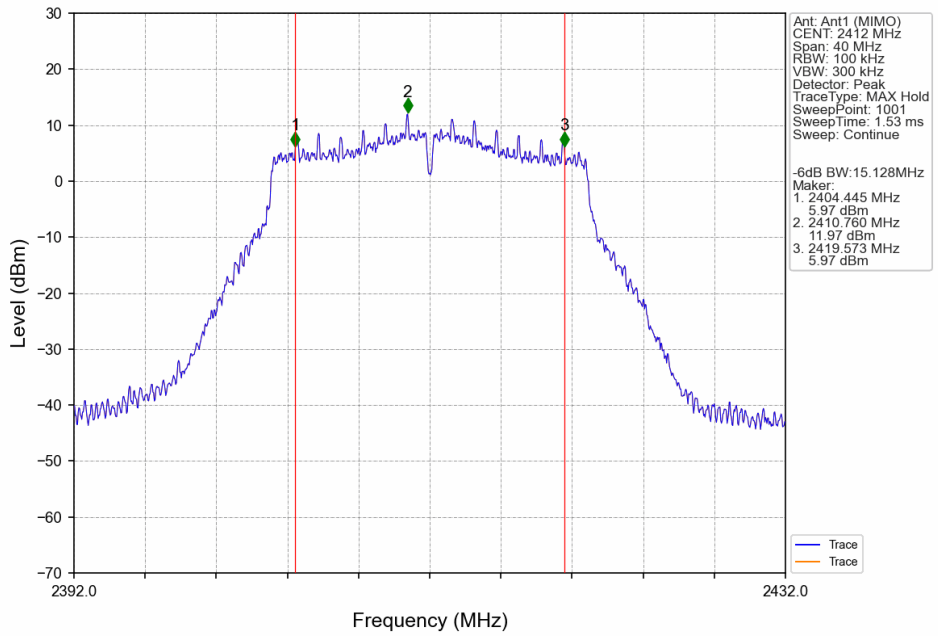
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



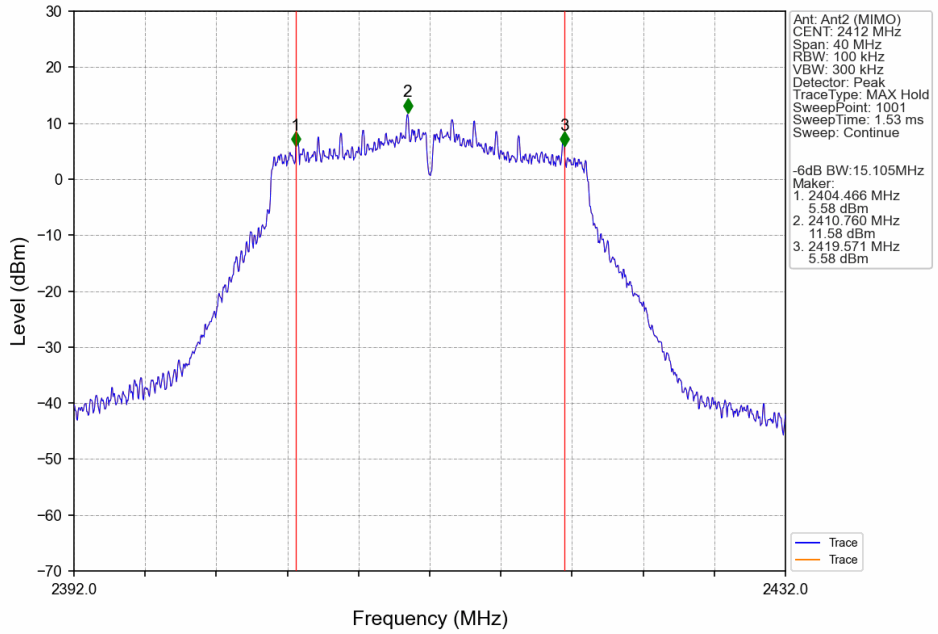
802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV



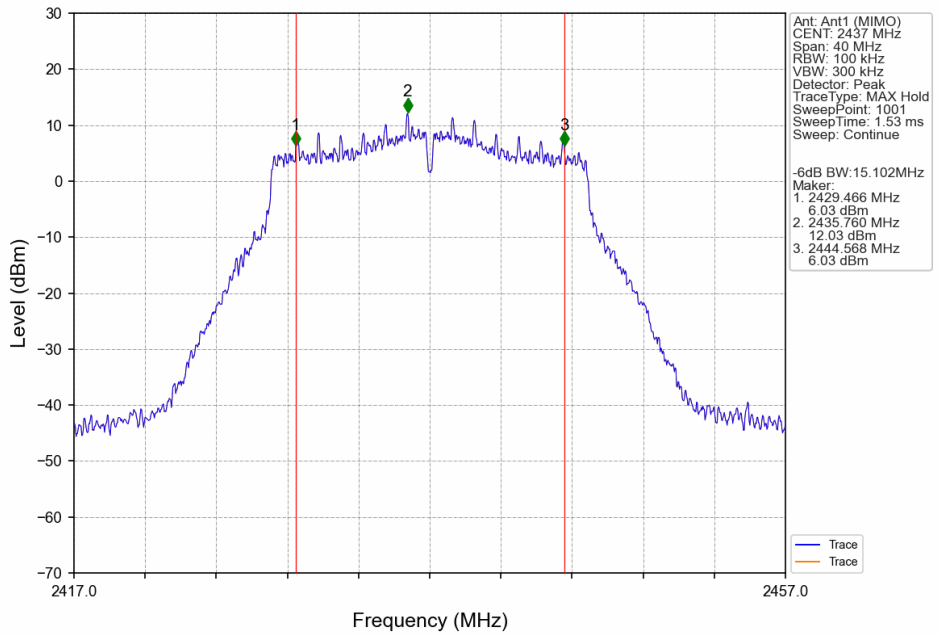
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



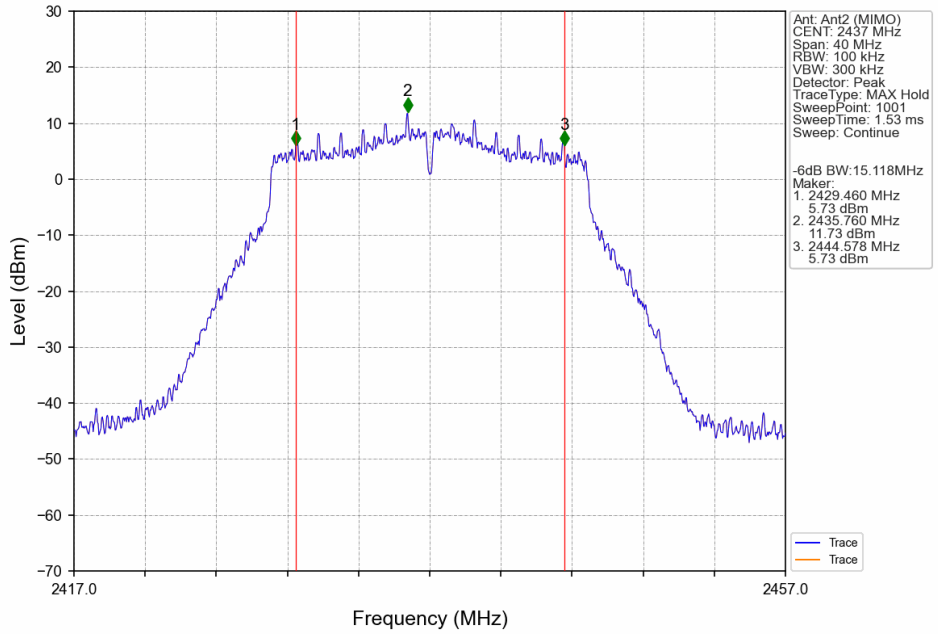
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



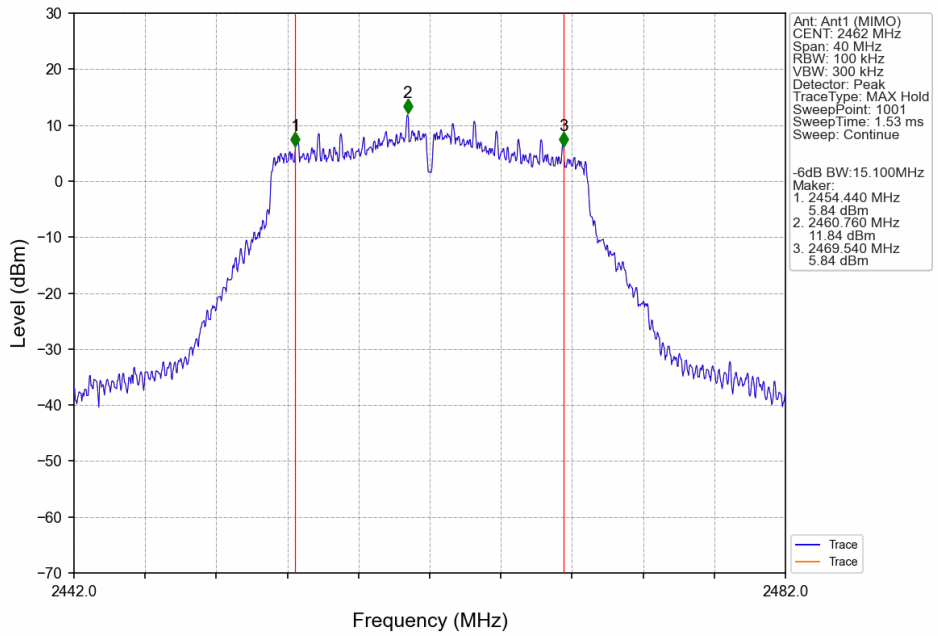
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



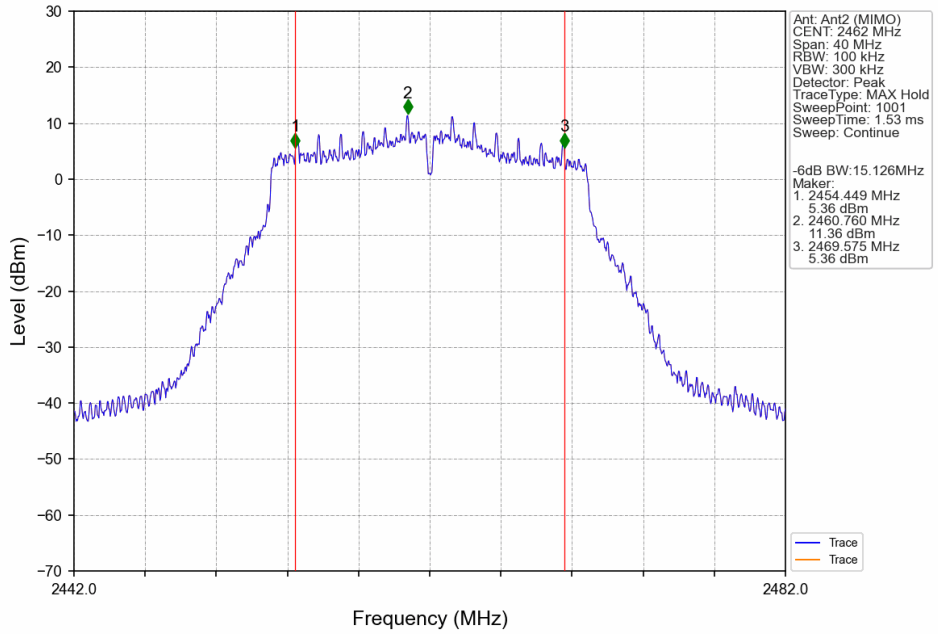
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



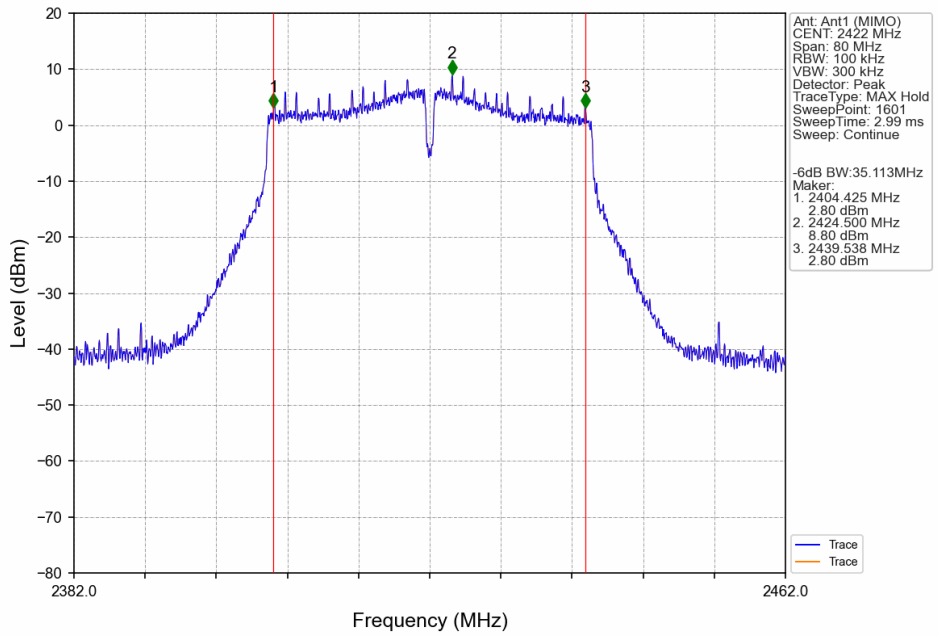
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



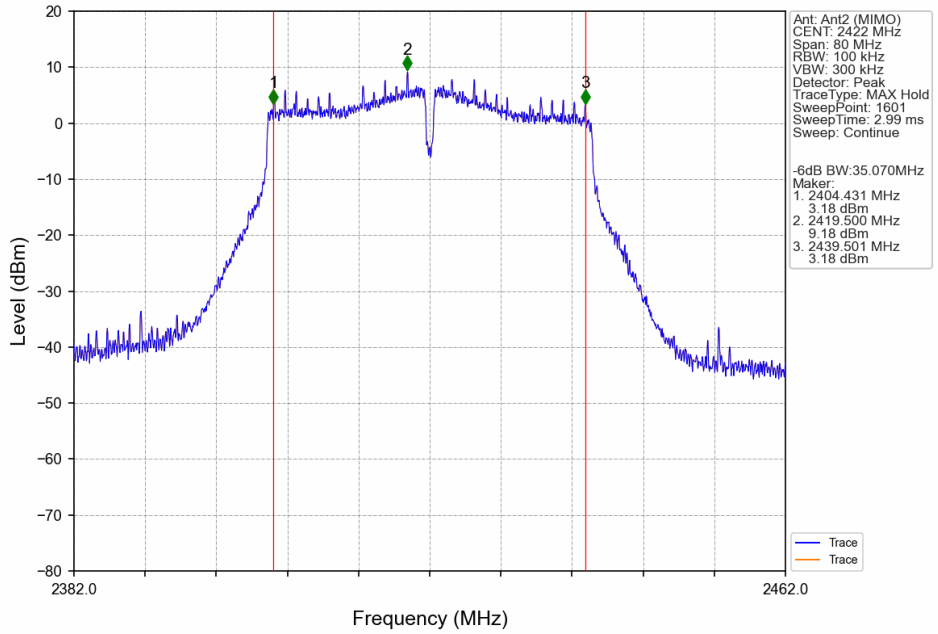
802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV



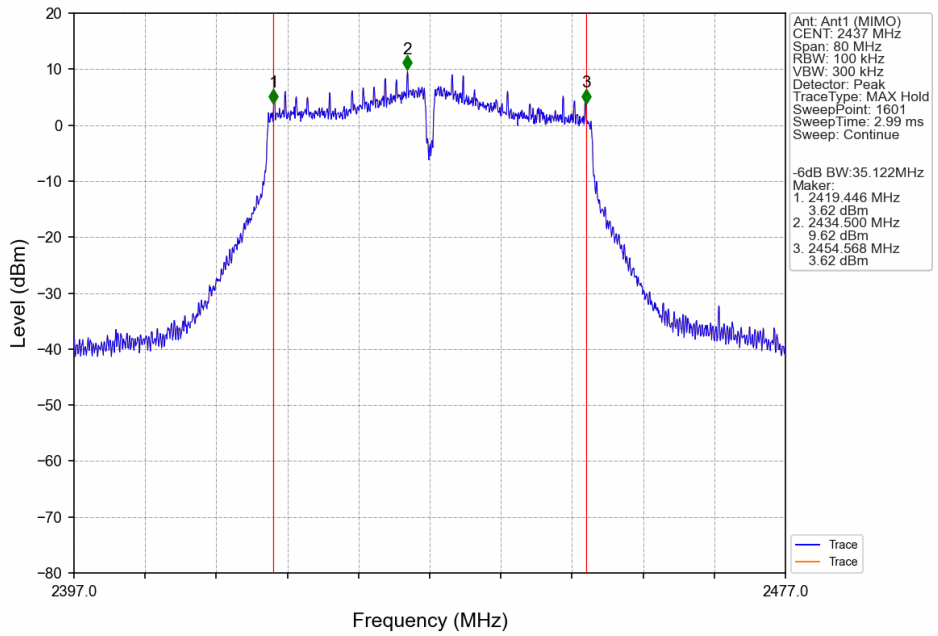
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



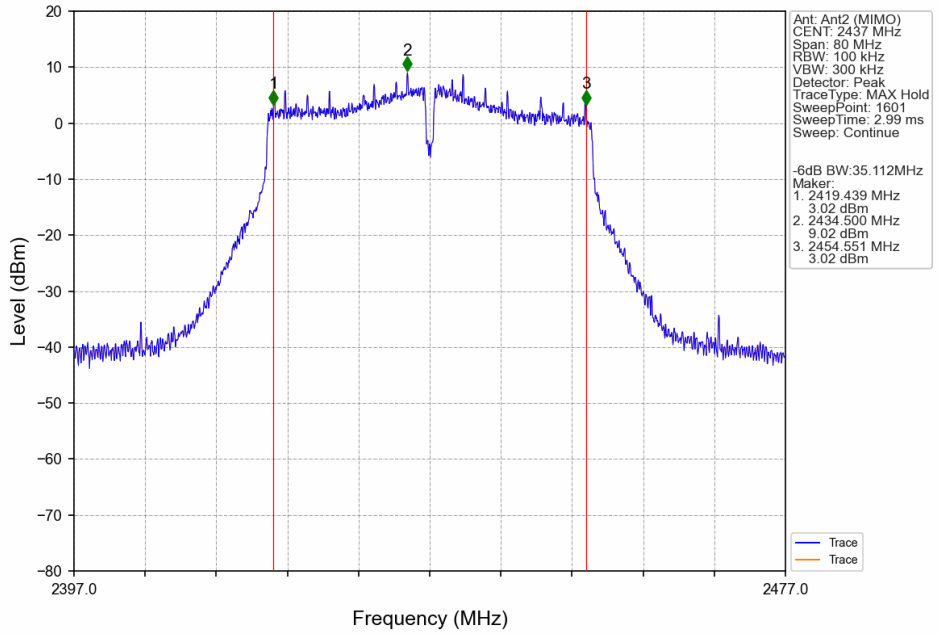
802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV



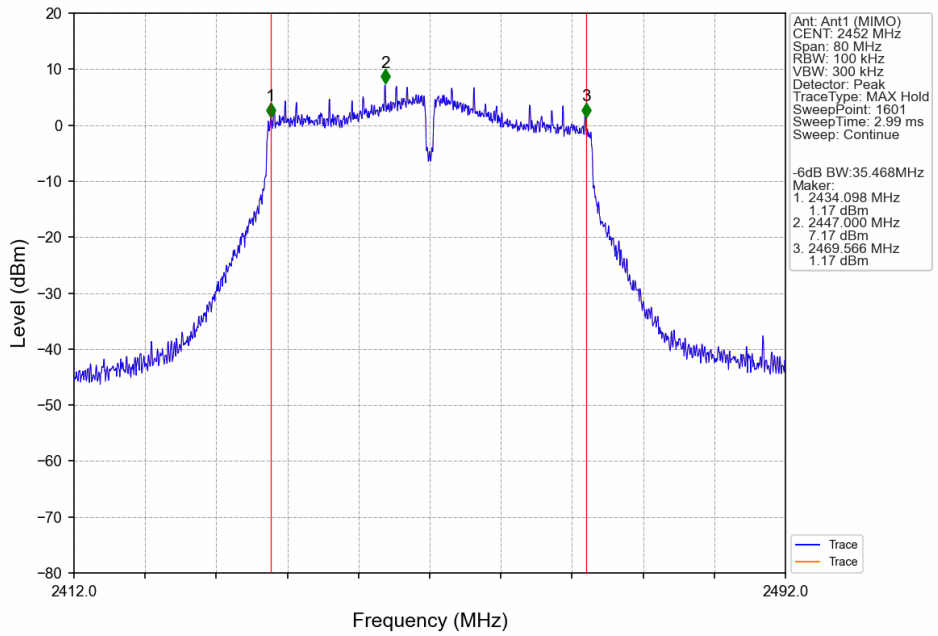
802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



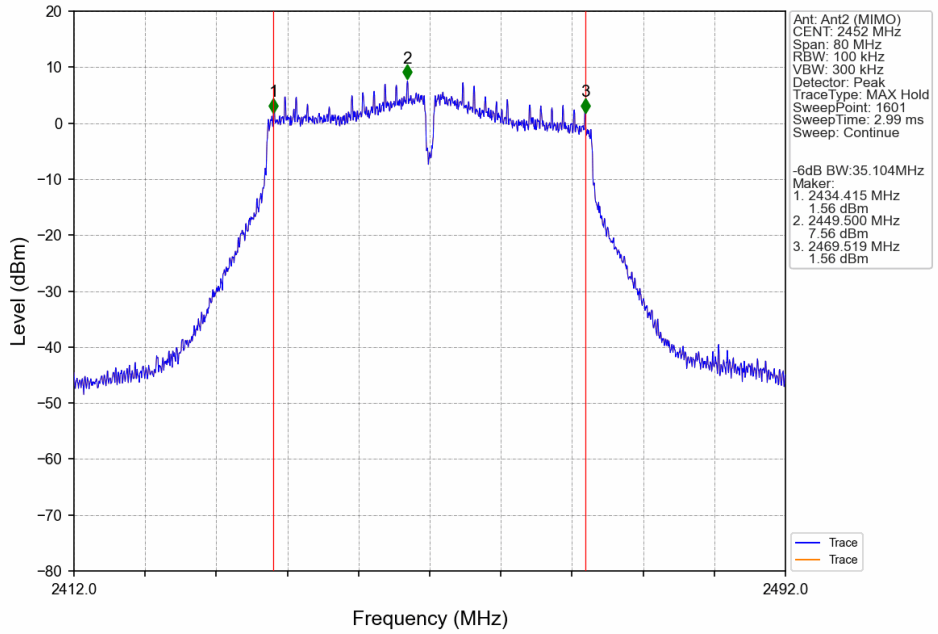
802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV



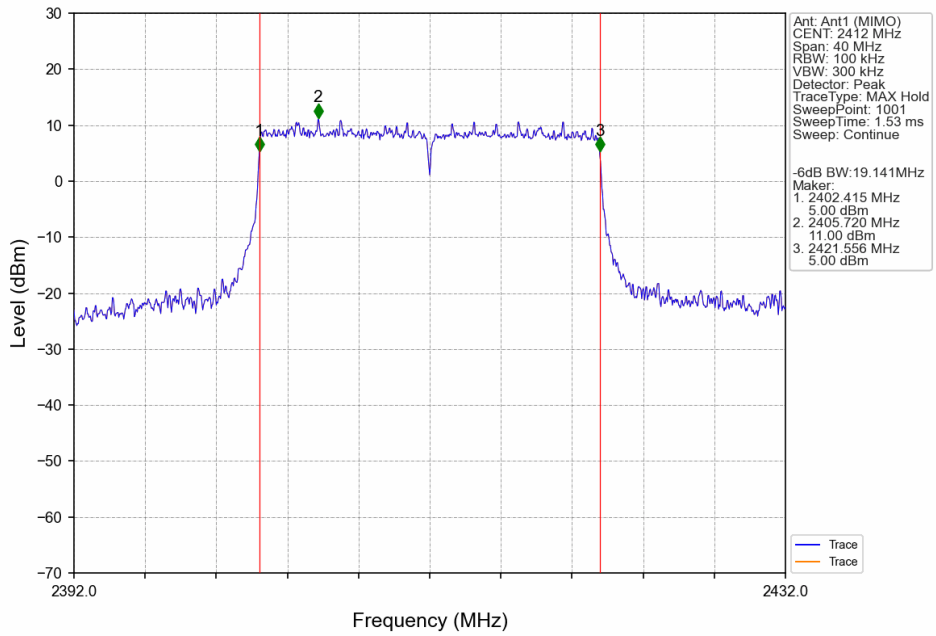
802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV



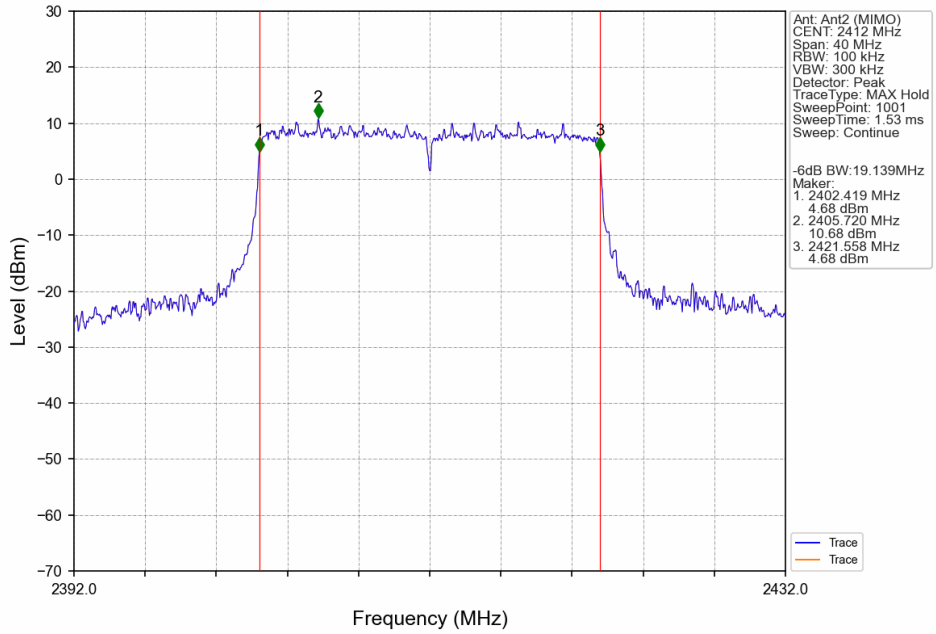
802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV



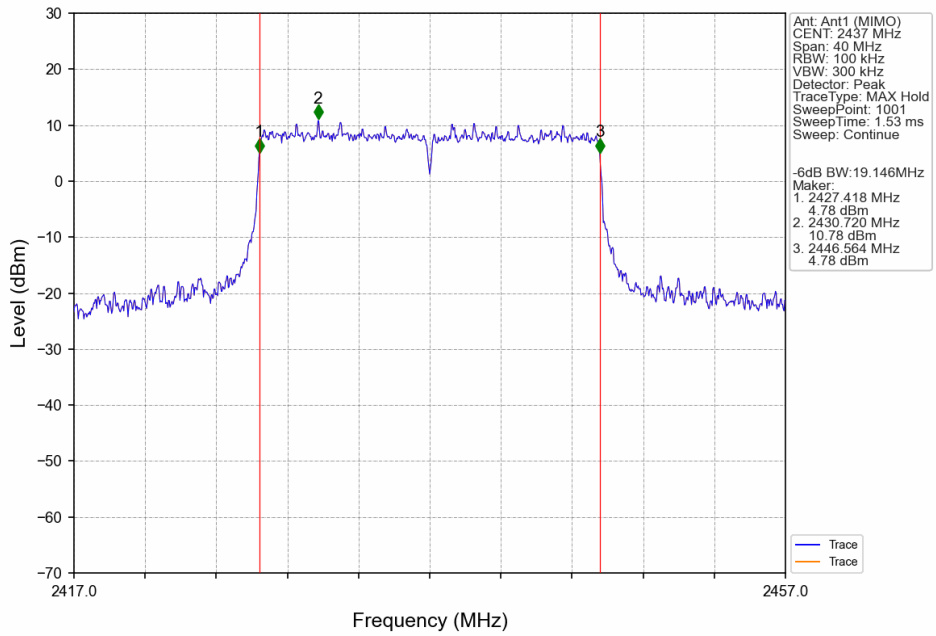
802.11ax(HEW20)_LCH_2412MHz_SU_ / _Ant1 (MIMO)_NTNV



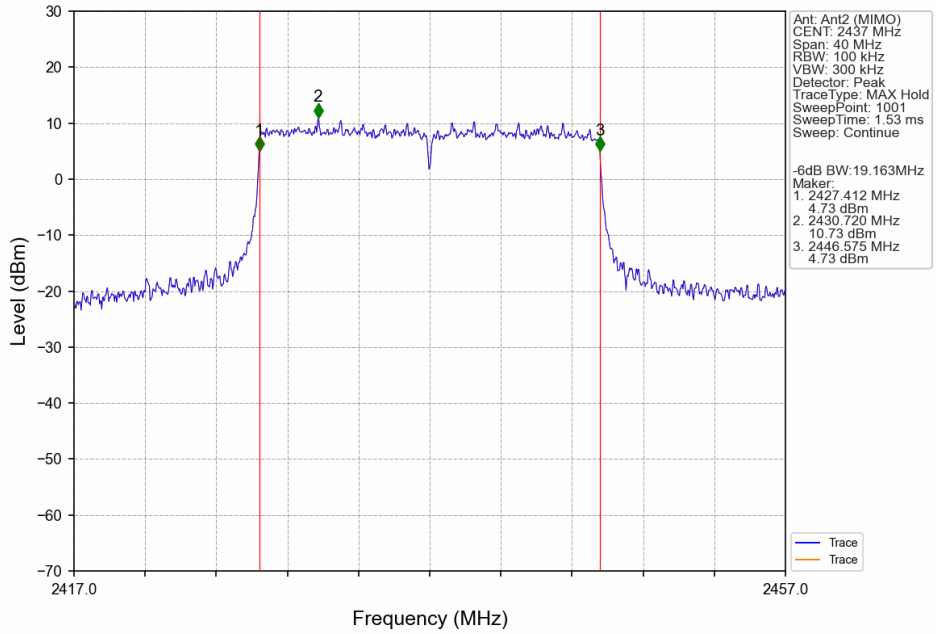
802.11ax(HEW20)_LCH_2412MHz_SU_ / _Ant2 (MIMO)_NTNV



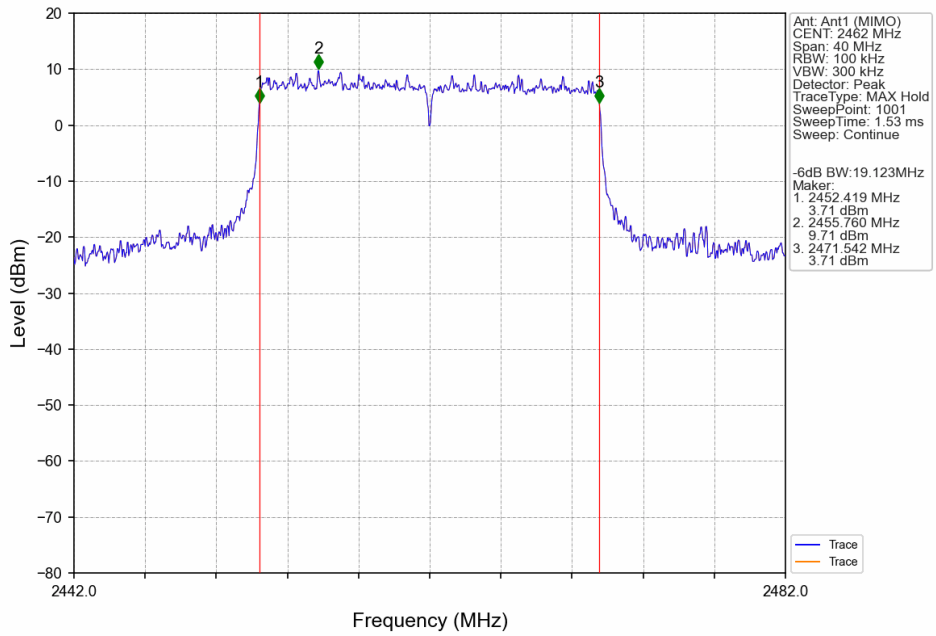
802.11ax(HEW20)_MCH_2437MHz_SU_ / _Ant1 (MIMO)_NTNV



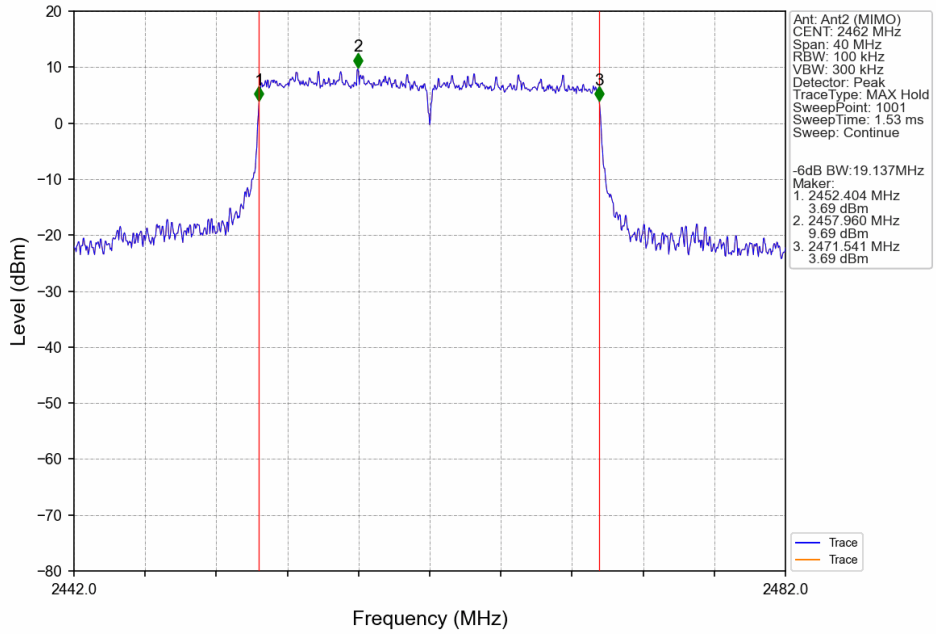
802.11ax(HEW20)_MCH_2437MHz_SU_ / _Ant2 (MIMO)_NTNV



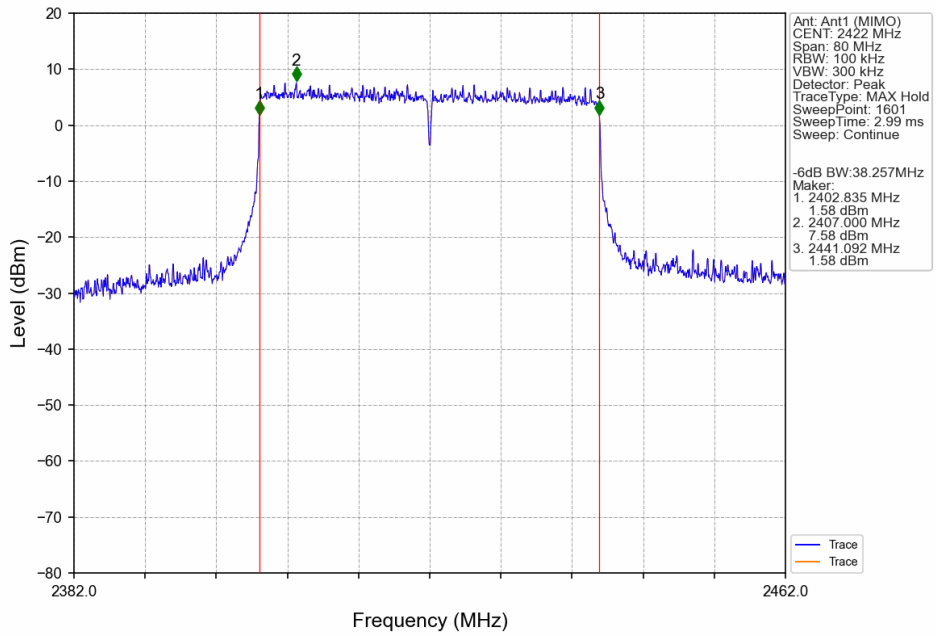
802.11ax(HEW20)_HCH_2462MHz_SU_ / _Ant1 (MIMO)_NTNV



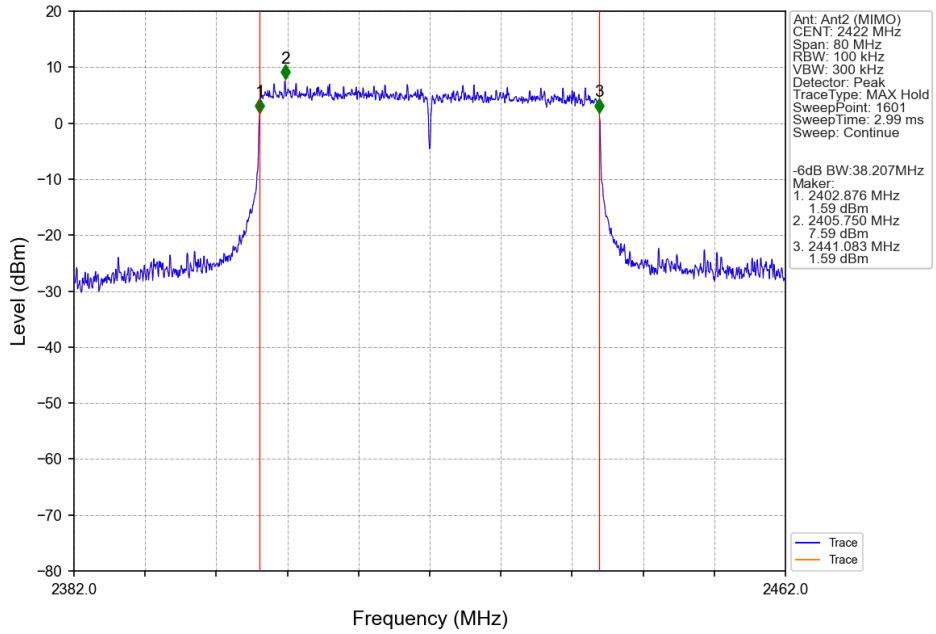
802.11ax(HEW20)_HCH_2462MHz_SU_ / _Ant2 (MIMO)_NTNV



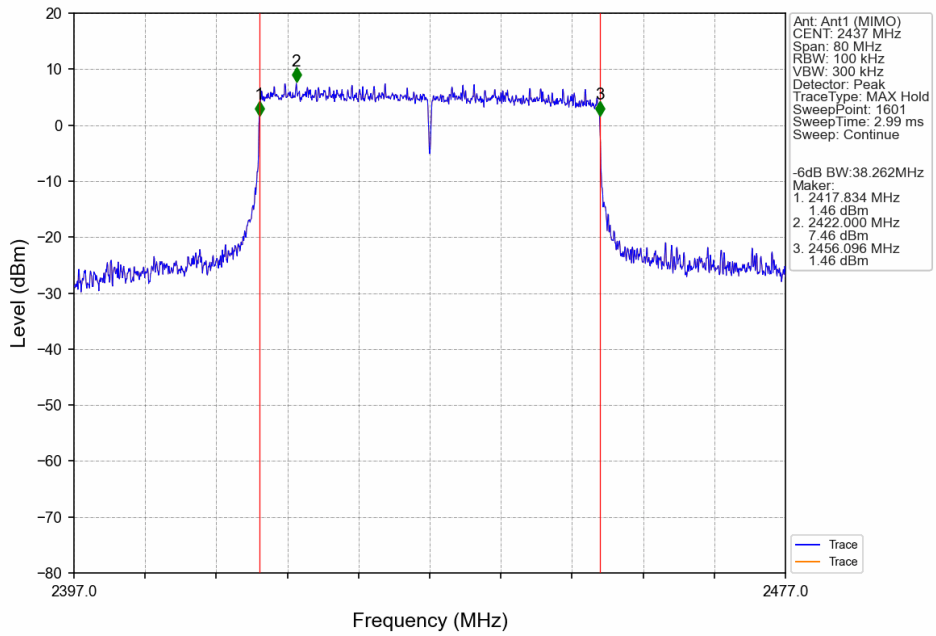
802.11ax(HEW40)_LCH_2422MHz_SU_ / _Ant1 (MIMO)_NTNV



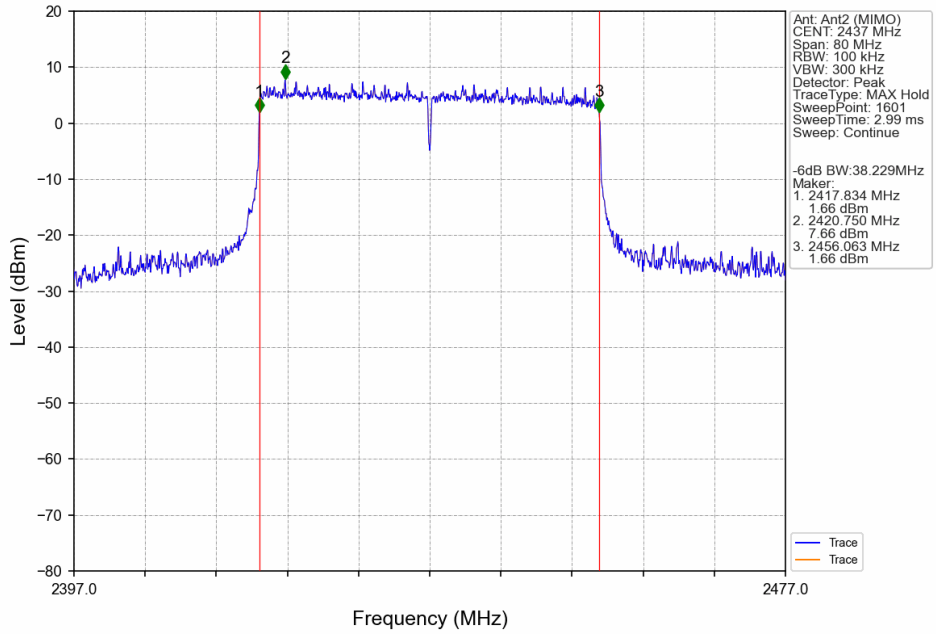
802.11ax(HEW40)_LCH_2422MHz_SU_ / _Ant2 (MIMO)_NTNV



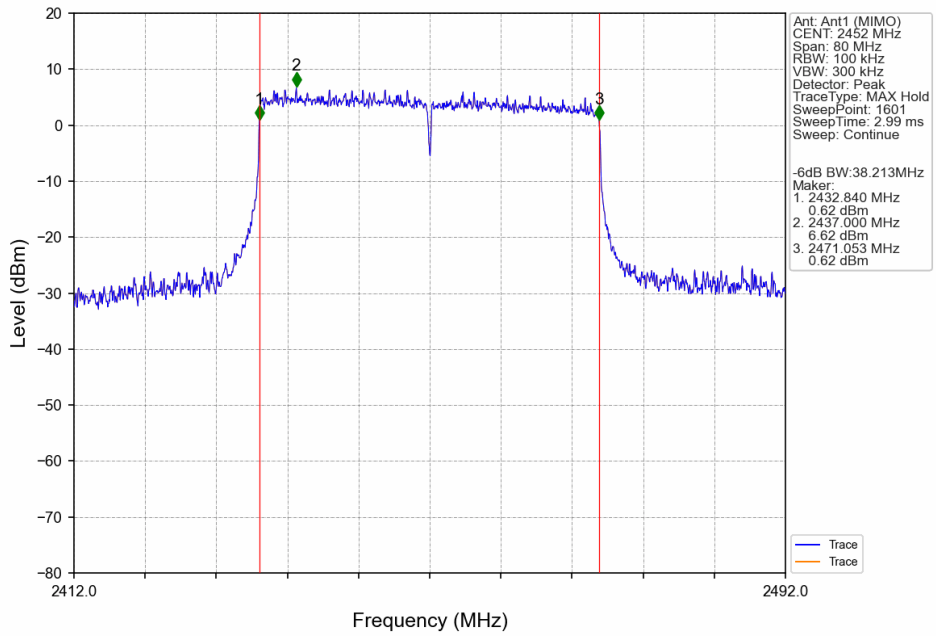
802.11ax(HEW40)_MCH_2437MHz_SU_ / _Ant1 (MIMO)_NTNV



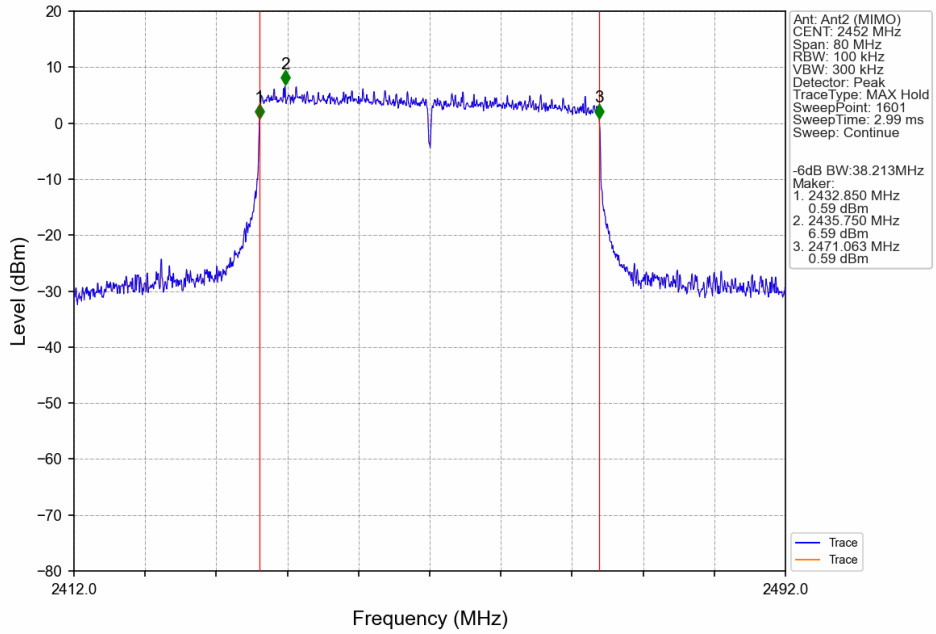
802.11ax(HEW40)_MCH_2437MHz_SU_ / _Ant2 (MIMO)_NTNV



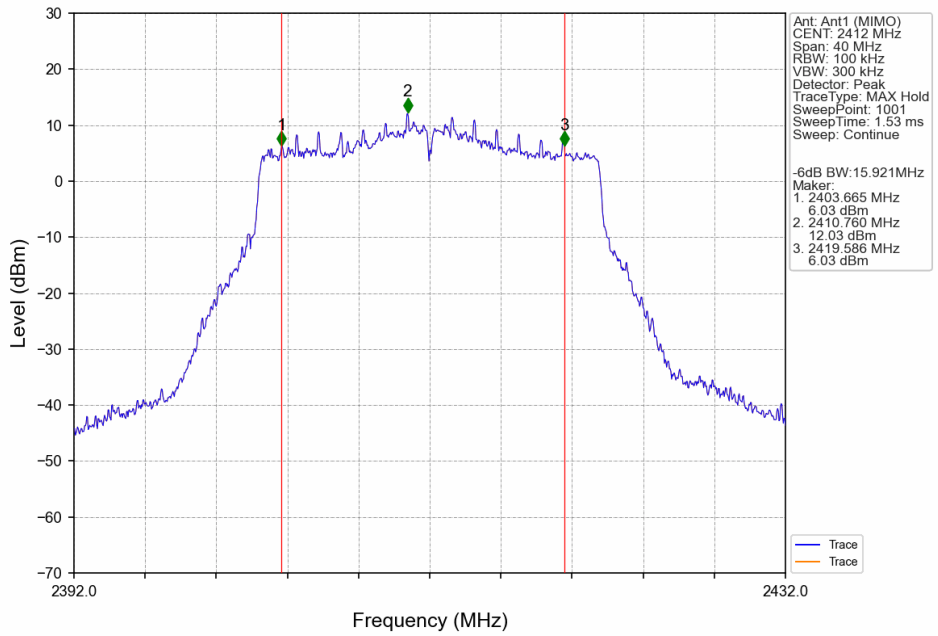
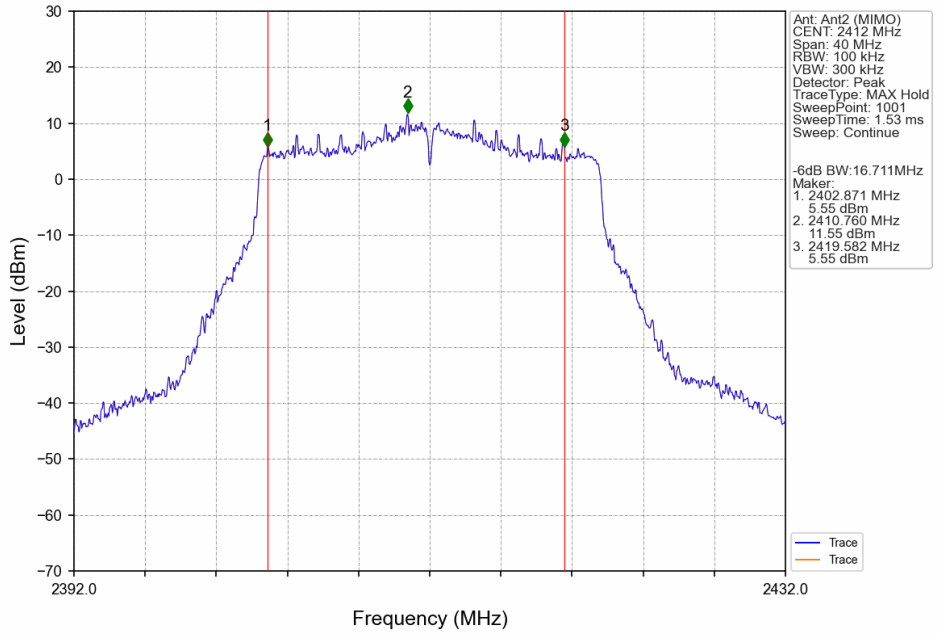
802.11ax(HEW40)_HCH_2452MHz_SU_ / _Ant1 (MIMO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_ / _Ant2 (MIMO)_NTNV



802.11be(EHT20)_LCH_2412MHz_SU_ / _Ant1 (MIMO)_NTNV



802.11be(EHT20)_LCH_2412MHz_SU_ / _Ant2 (MIMO)_NTNV