

Appendix RF test data for WIFI2.4G

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

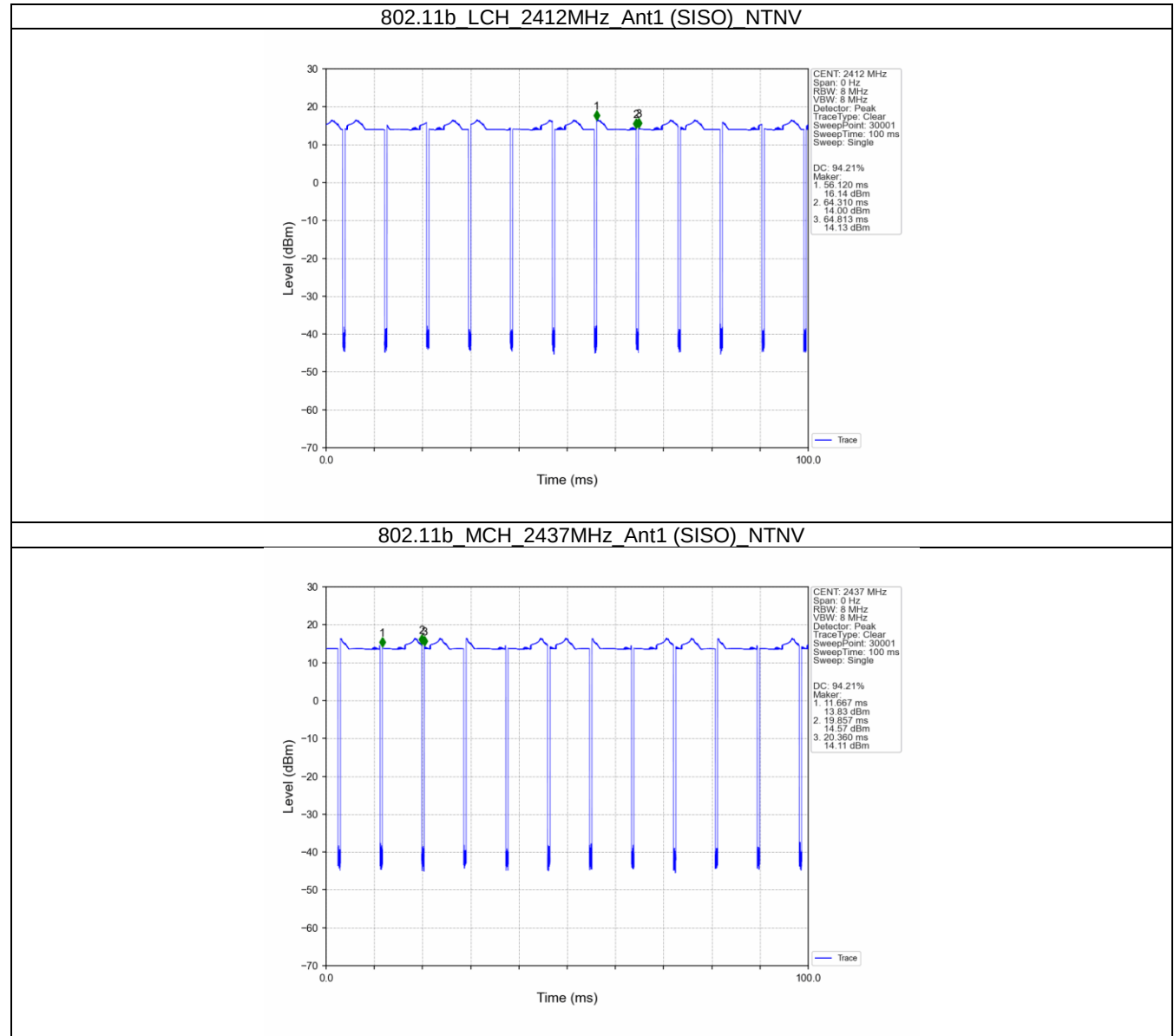
Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.190	8.693	94.21	0.26	0.04
		2437	/	/	8.190	8.693	94.21	0.26	0.04
		2462	/	/	8.193	8.696	94.22	0.26	0.04
802.11g	SISO	2412	/	/	1.360	1.862	73.04	1.36	0.02
		2437	/	/	1.361	1.863	73.05	1.36	0.03
		2462	/	/	1.361	1.863	73.05	1.36	0.03
802.11n (HT20)	MIMO	2412	/	/	1.272	1.774	71.70	1.44	0.03
		2437	/	/	1.273	1.775	71.72	1.44	0.03
		2462	/	/	1.272	1.775	71.66	1.45	0.06
802.11n (HT40)	MIMO	2422	/	/	0.633	1.135	55.77	2.54	0.03
		2437	/	/	0.632	1.135	55.68	2.54	0.04
		2452	/	/	0.633	1.135	55.77	2.54	0.05
802.11ax (HEW20)	MIMO	2412	SU	/	1.168	1.670	69.94	1.55	0.00
		2437	SU	/	1.169	1.671	69.96	1.55	0.00
		2462	SU	/	1.168	1.671	69.90	1.56	0.00
802.11ax (HEW40)	MIMO	2422	SU	/	0.616	1.119	55.05	2.59	0.02
		2437	SU	/	0.617	1.119	55.14	2.59	0.02
		2452	SU	/	0.617	1.119	55.14	2.59	0.03

1.1.2 Ant2

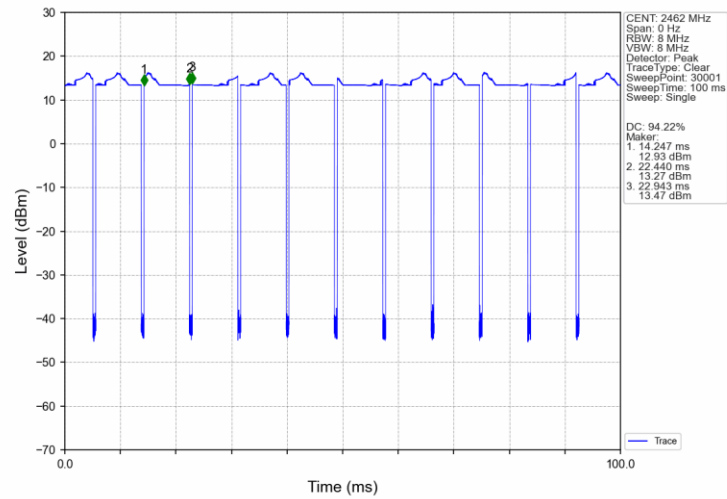
Ant2									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.193	8.696	94.22	0.26	0.04
		2437	/	/	8.193	8.697	94.20	0.26	0.04
		2462	/	/	8.190	8.693	94.21	0.26	0.04
802.11g	SISO	2412	/	/	1.360	1.862	73.04	1.36	0.03
		2437	/	/	1.361	1.863	73.05	1.36	0.03
		2462	/	/	1.360	1.863	73.00	1.37	0.03
802.11n (HT20)	MIMO	2412	/	/	1.272	1.774	71.70	1.44	0.04
		2437	/	/	1.272	1.774	71.70	1.44	0.04
		2462	/	/	1.272	1.774	71.70	1.44	0.03
802.11n (HT40)	MIMO	2422	/	/	0.633	1.135	55.77	2.54	0.03
		2437	/	/	0.633	1.135	55.77	2.54	0.06
		2452	/	/	0.633	1.135	55.77	2.54	0.03
802.11ax (HEW20)	MIMO	2412	SU	/	1.168	1.671	69.90	1.56	0.00
		2437	SU	/	1.168	1.670	69.94	1.55	0.03
		2462	SU	/	1.169	1.671	69.96	1.55	0.00
802.11ax (HEW40)	MIMO	2422	SU	/	0.617	1.119	55.14	2.59	0.03
		2437	SU	/	0.616	1.118	55.10	2.59	0.01
		2452	SU	/	0.617	1.119	55.14	2.59	0.03

1.2 Test Graph

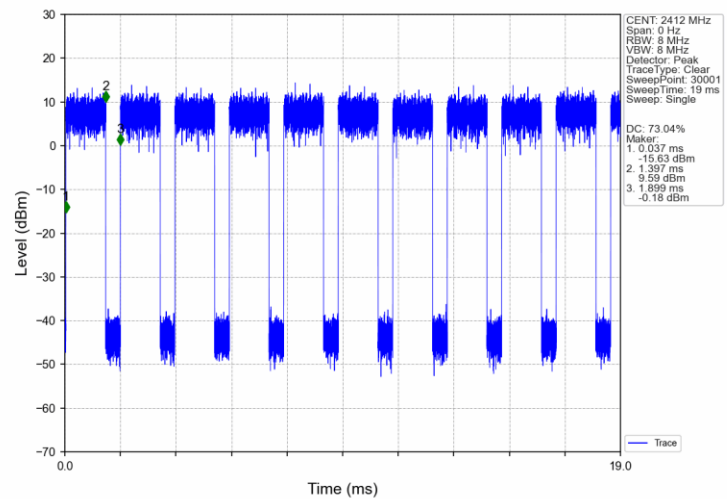
1.2.1 Ant1



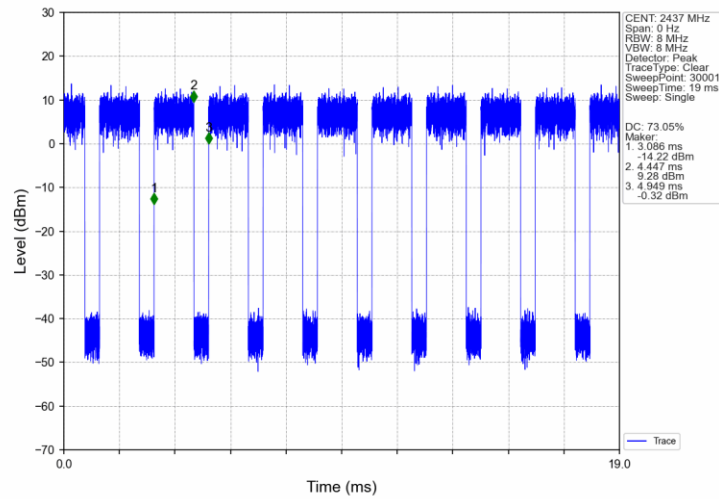
802.11b HCH 2462MHz_Ant1 (SISO) NTN



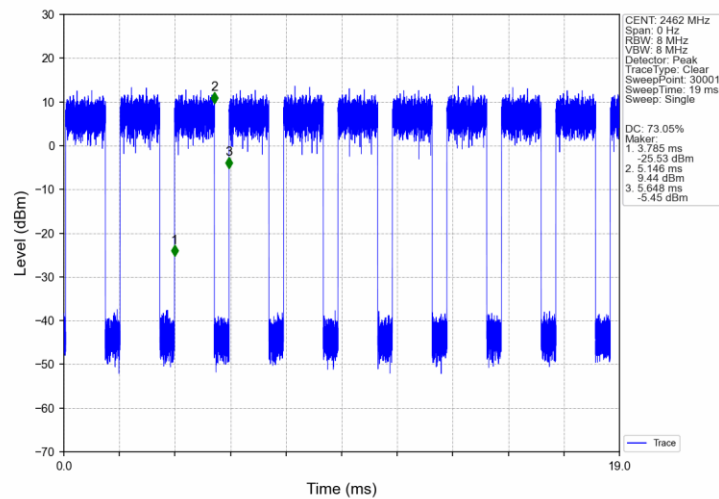
802.11g LCH 2412MHz_Ant1 (SISO) NTN



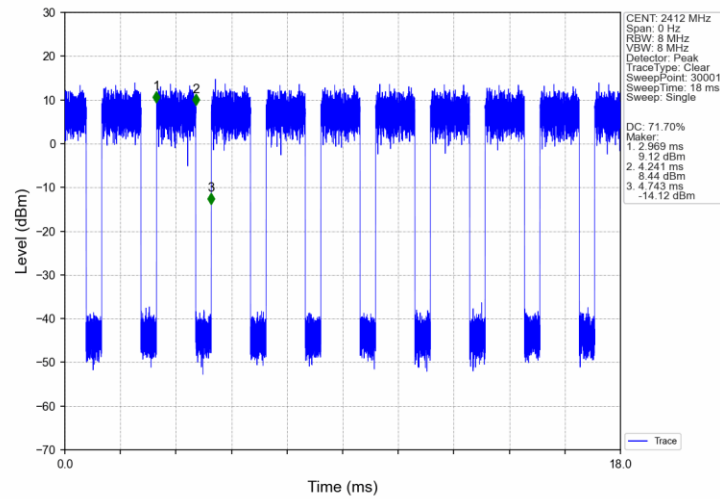
802.11g MCH 2437MHz_Ant1 (SISO) NTN



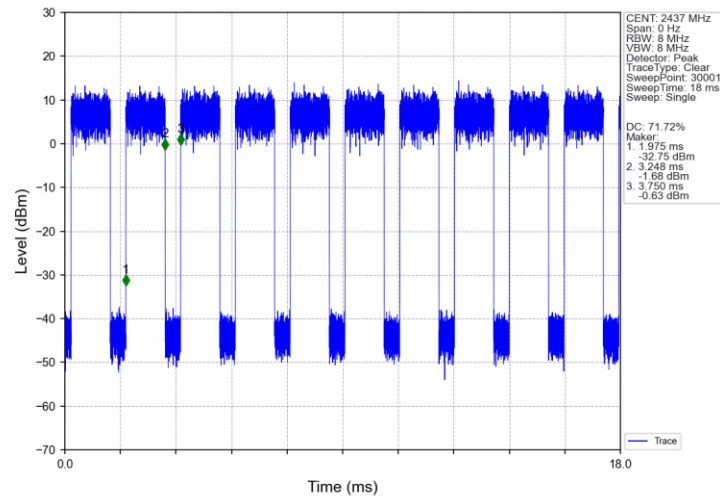
802.11g HCH 2462MHz_Ant1 (SISO) NTN



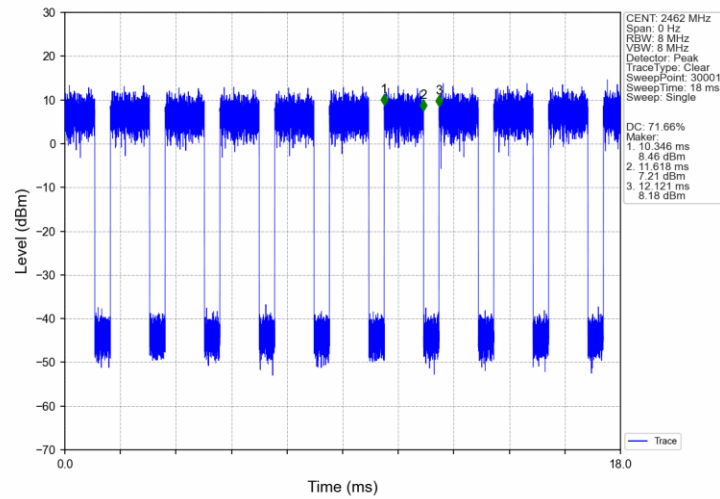
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



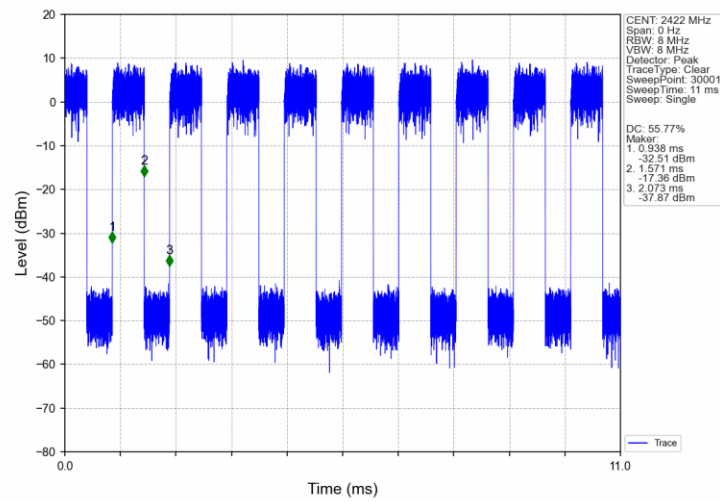
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



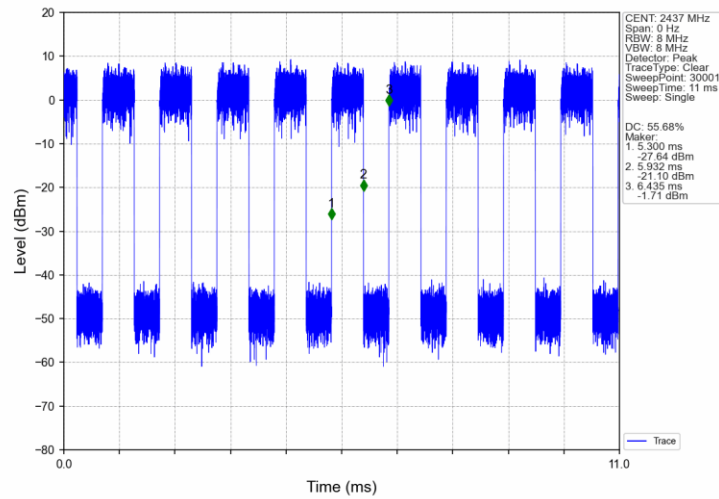
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTNv



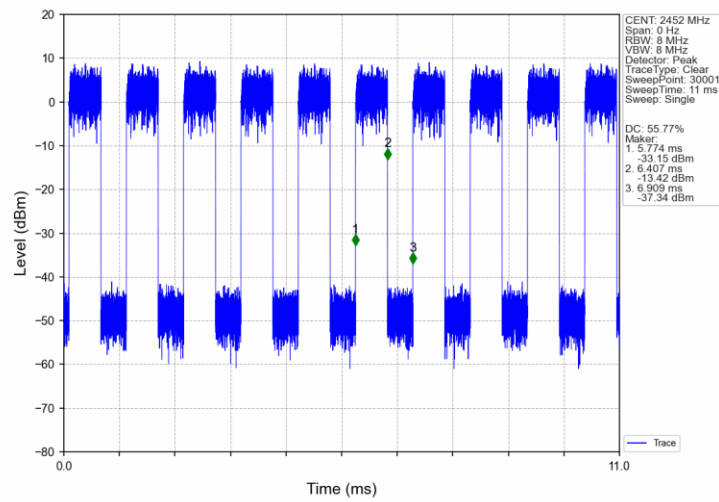
802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTNv



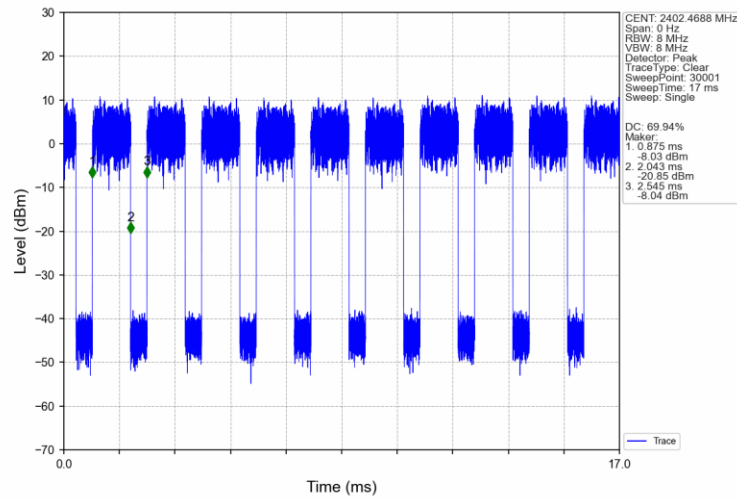
802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNV



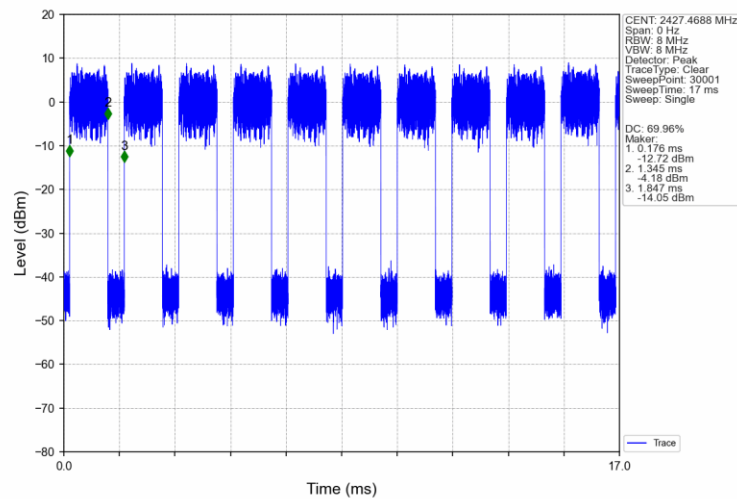
802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



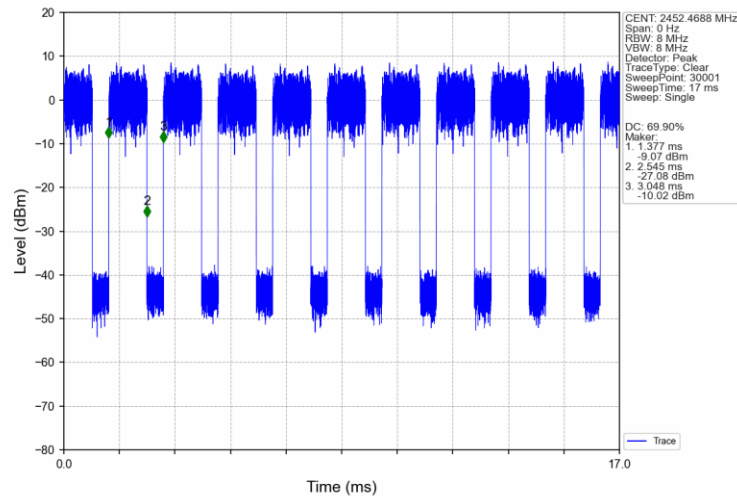
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (MIMO) NTN



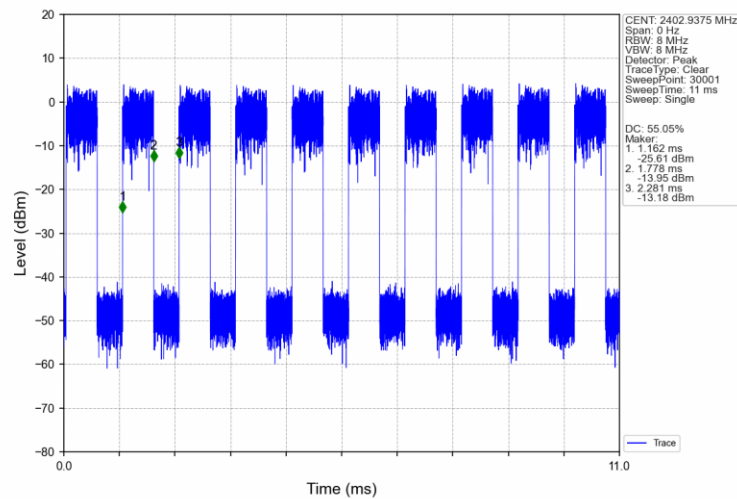
802.11ax(HEW20) MCH 2437MHz SU / Ant1 (MIMO) NTN



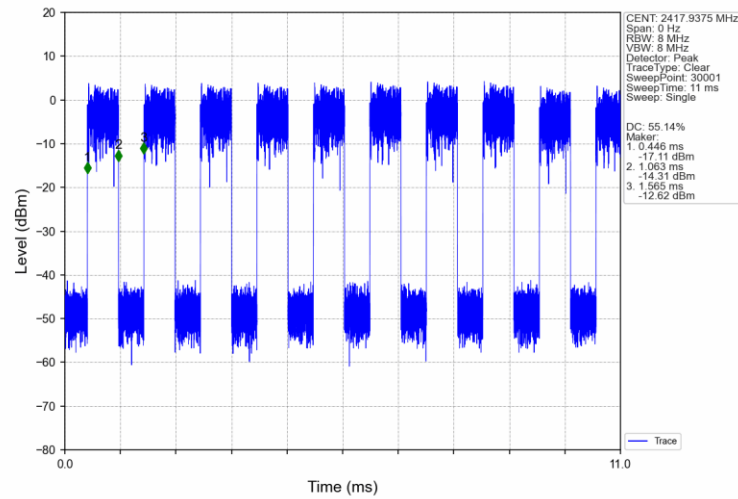
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (MIMO) NTNV



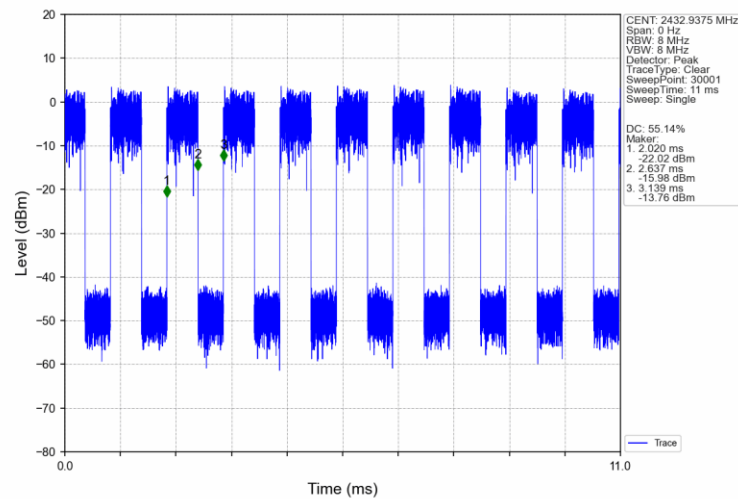
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (MIMO) NTNV



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (MIMO) NTVN

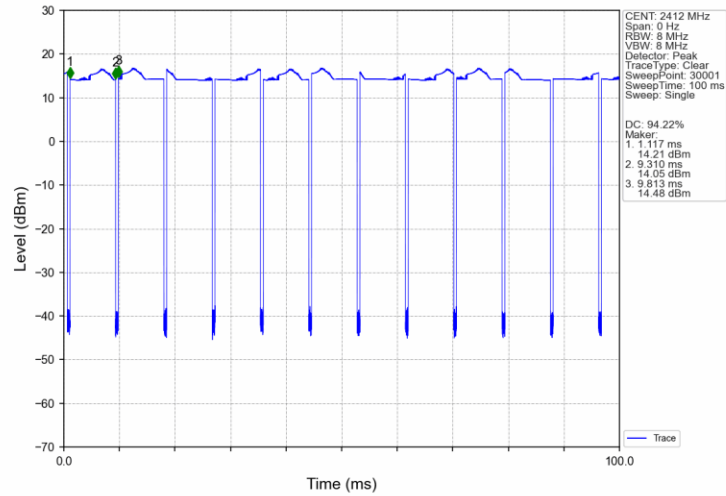


802.11ax(HEW40) HCH 2452MHz SU / Ant1 (MIMO) NTVN

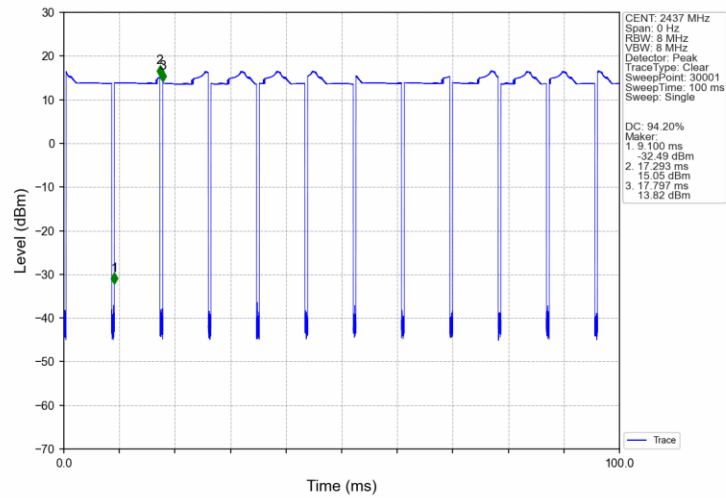


1.2.2 Ant2

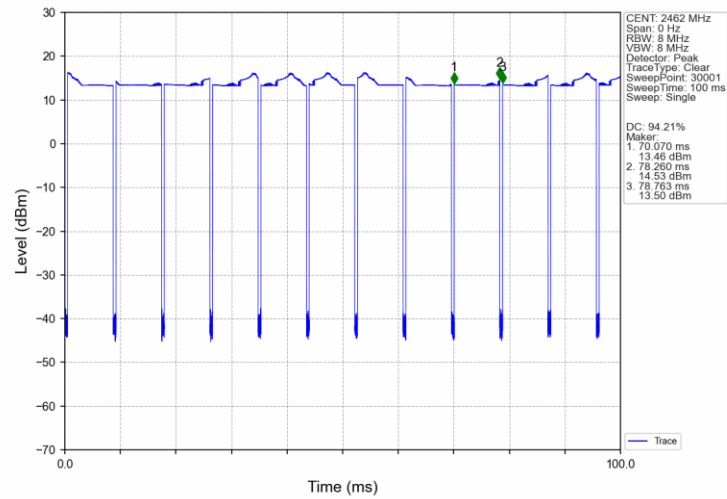
802.11b LCH 2412MHz_Ant2 (SISO)_NTNV



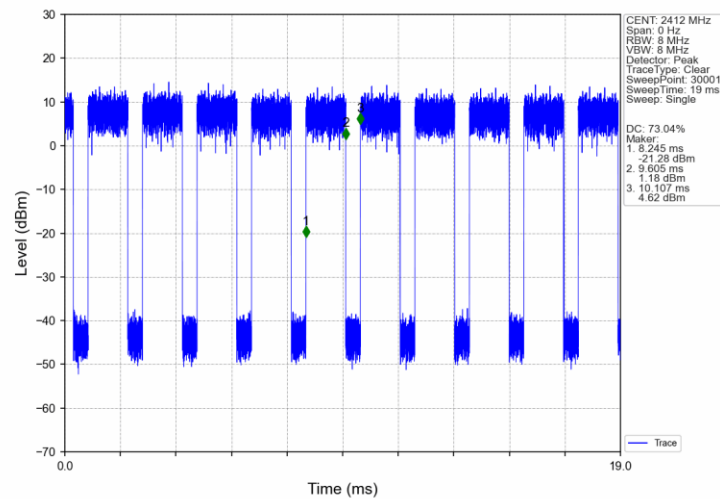
802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV



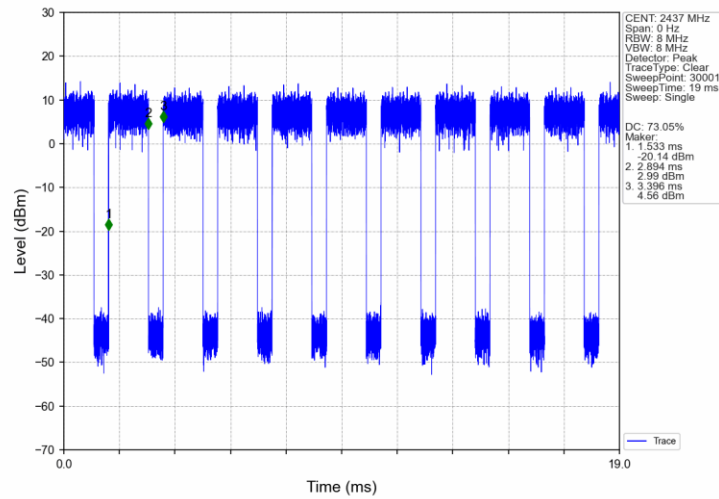
802.11b HCH 2462MHz_Ant2 (SISO) NTNv



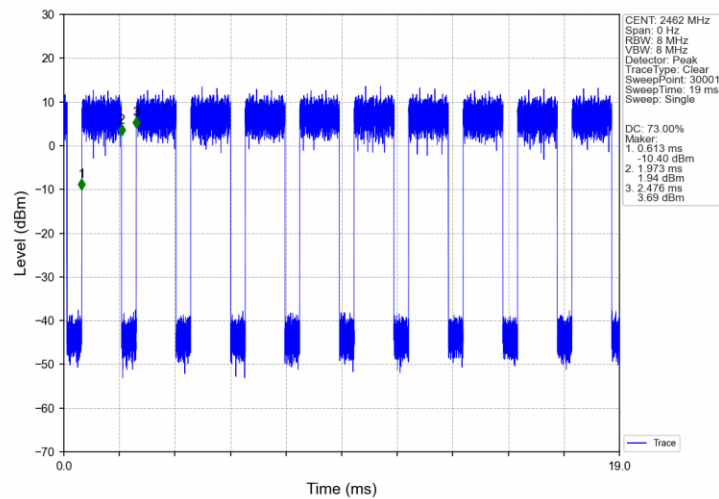
802.11g LCH 2412MHz_Ant2 (SISO) NTNv



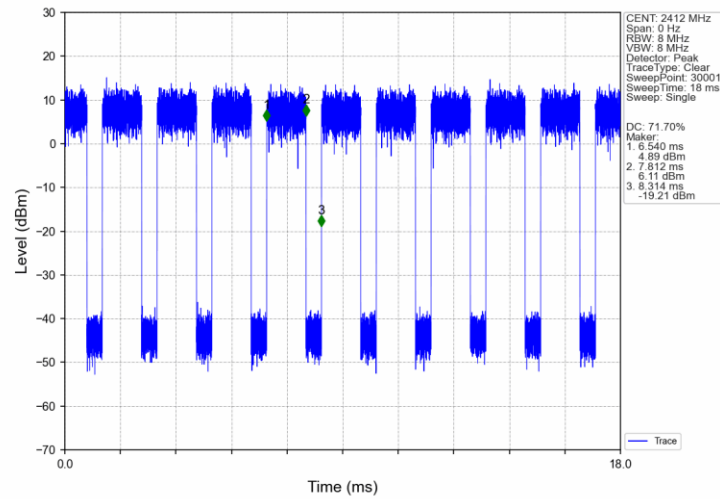
802.11g MCH 2437MHz_Ant2 (SISO) NTNv



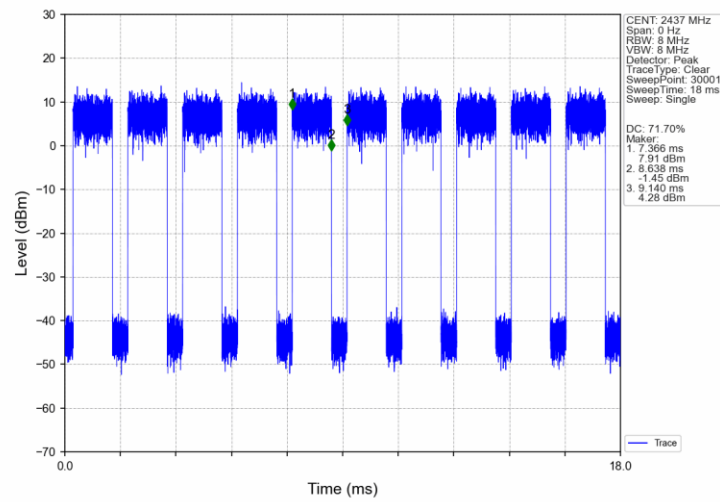
802.11g_HCH_2462MHz_Ant2 (SISO) NTNv



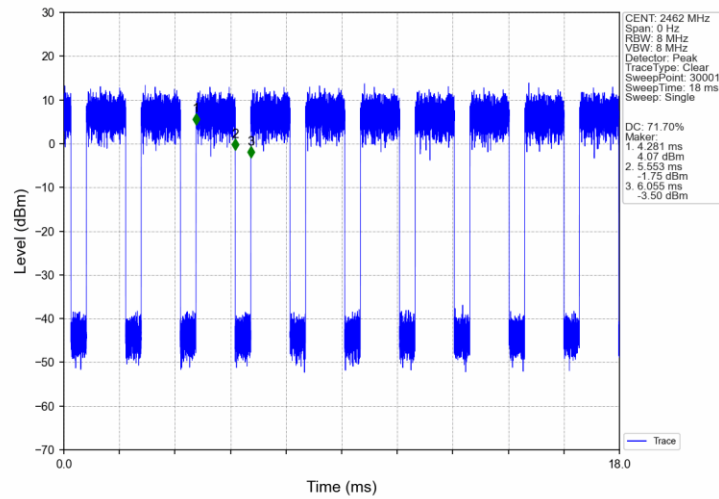
802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV



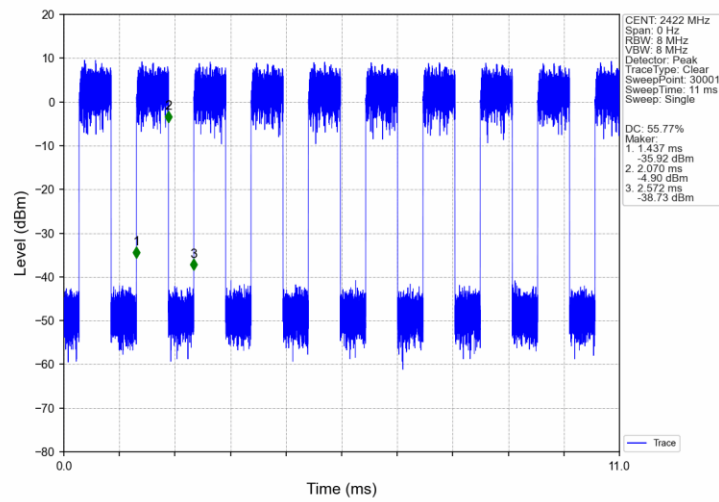
802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV



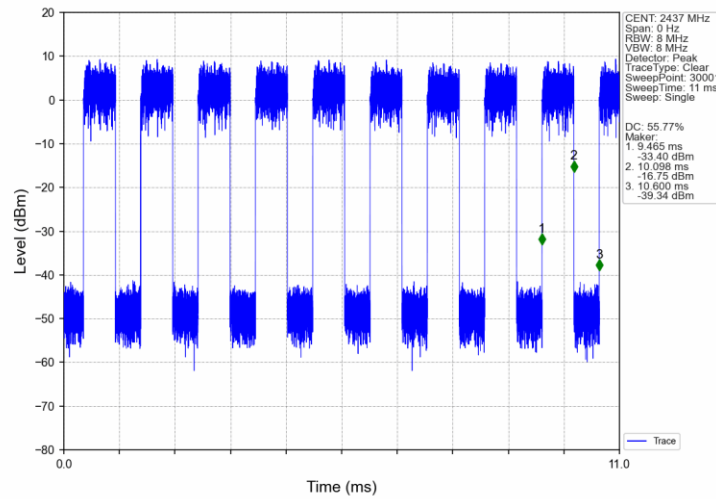
802.11n(HT20) HCH 2462MHz_Ant2 (MIMO) NTNv



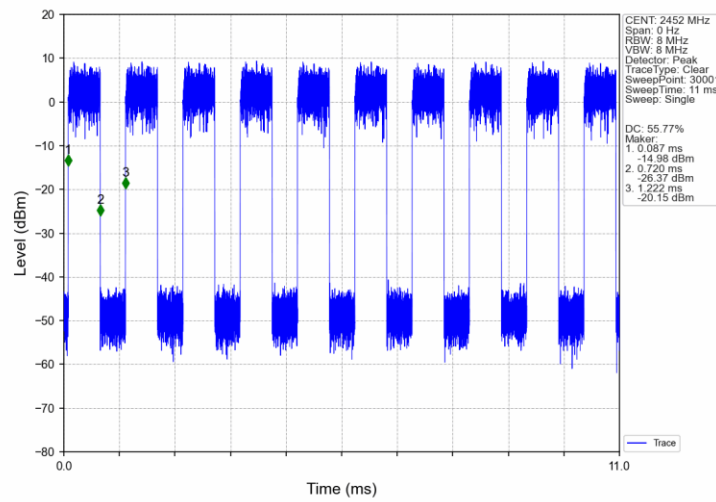
802.11n(HT40) LCH 2422MHz_Ant2 (MIMO) NTNv



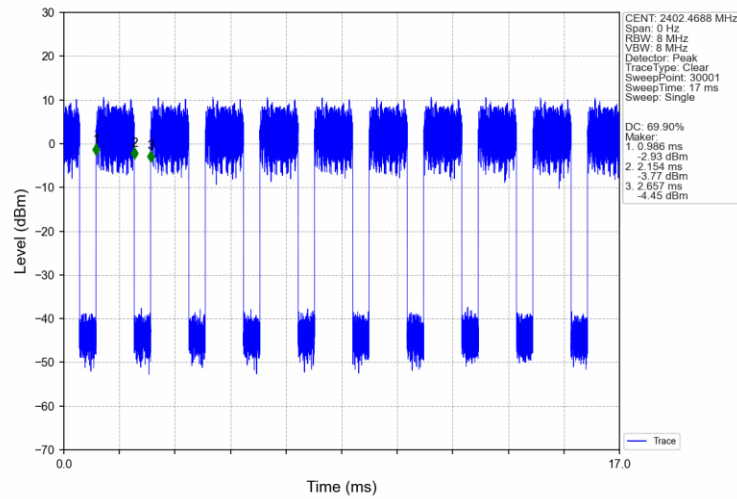
802.11n(HT40) MCH 2437MHz Ant2 (MIMO) NTNV



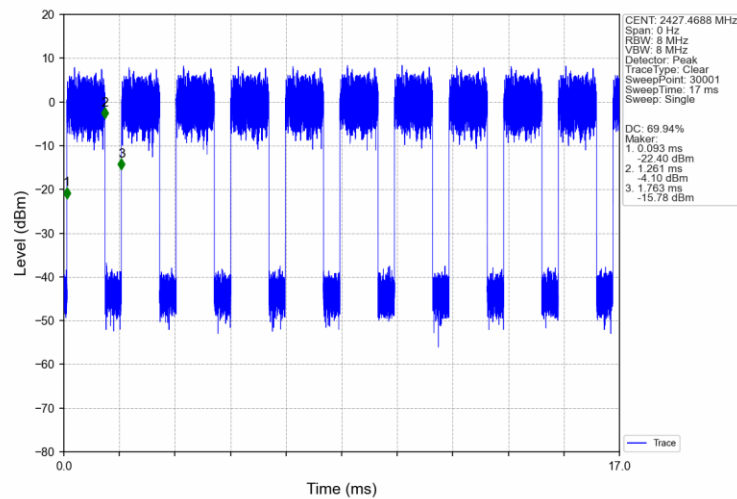
802.11n(HT40) HCH 2452MHz Ant2 (MIMO) NTNV



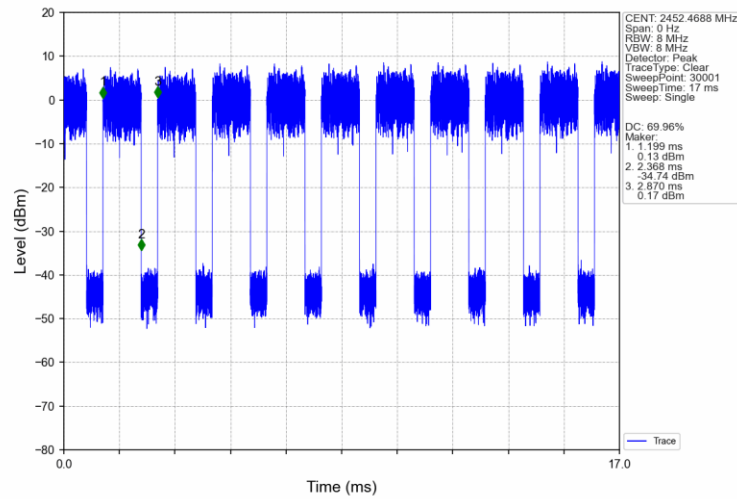
802.11ax(HEW20) LCH 2412MHz SU / Ant2 (MIMO) NTN



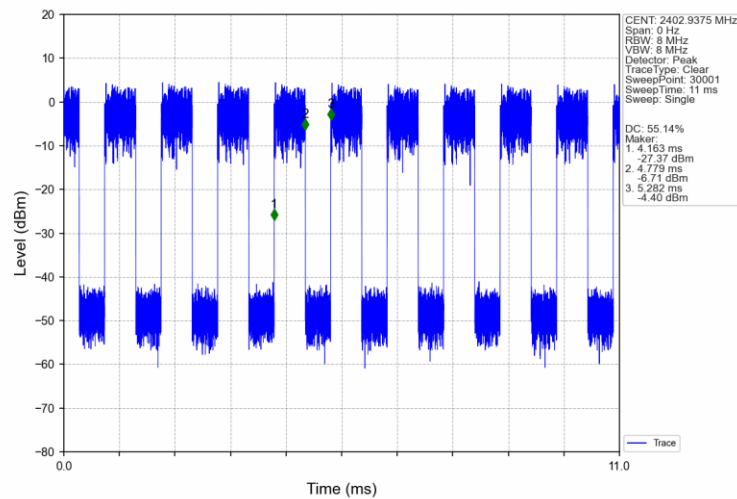
802.11ax(HEW20) MCH 2437MHz SU / Ant2 (MIMO) NTN



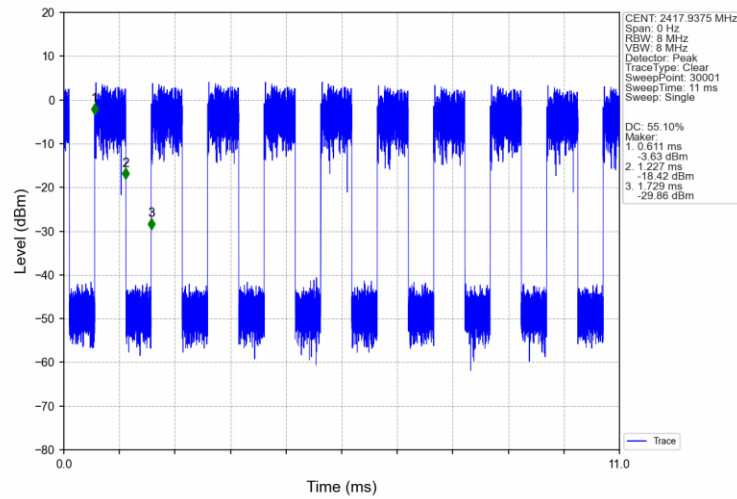
802.11ax(HEW20) HCH 2462MHz SU / Ant2 (MIMO) NTNV



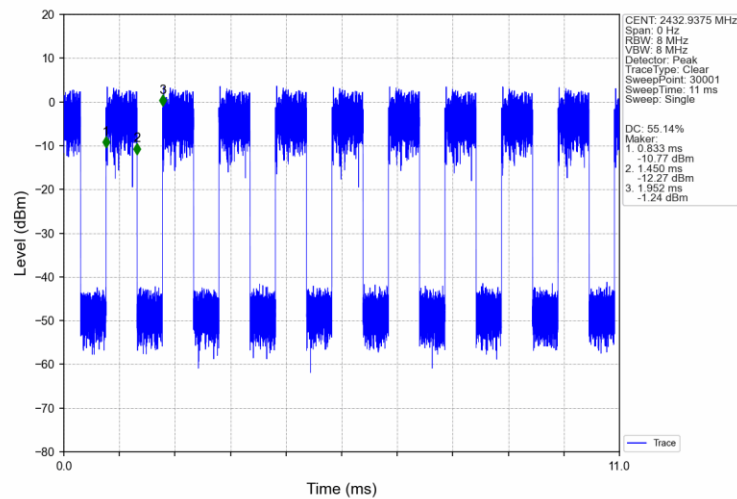
802.11ax(HEW40) LCH 2422MHz SU / Ant2 (MIMO) NTNV



802.11ax(HEW40) MCH 2437MHz SU / Ant2 (MIMO) NTN



802.11ax(HEW40) HCH 2452MHz SU / Ant2 (MIMO) NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

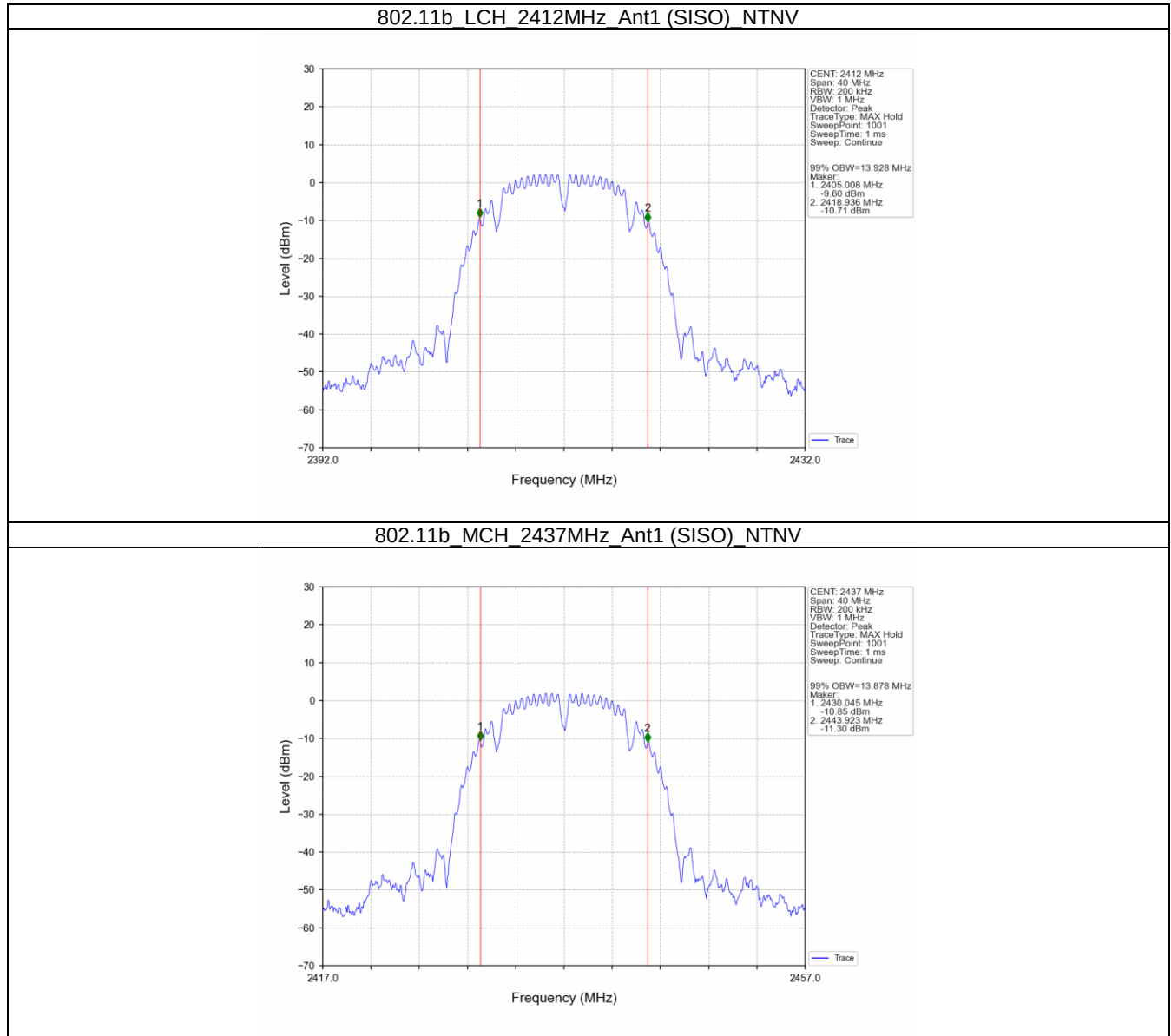
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	13.928	/	Pass
		2437	/	/	1	13.878	/	Pass
		2462	/	/	1	13.895	/	Pass
802.11g	SISO	2412	/	/	1	16.352	/	Pass
		2437	/	/	1	16.349	/	Pass
		2462	/	/	1	16.334	/	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.513	/	Pass
		2437	/	/	1	17.503	/	Pass
		2462	/	/	1	17.511	/	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.153	/	Pass
		2437	/	/	1	36.254	/	Pass
		2452	/	/	1	36.167	/	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	18.915	/	Pass
		2437	SU	/	1	18.887	/	Pass
		2462	SU	/	1	18.886	/	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	37.824	/	Pass
		2437	SU	/	1	37.898	/	Pass
		2452	SU	/	1	37.871	/	Pass

2.1.2 6dB BW

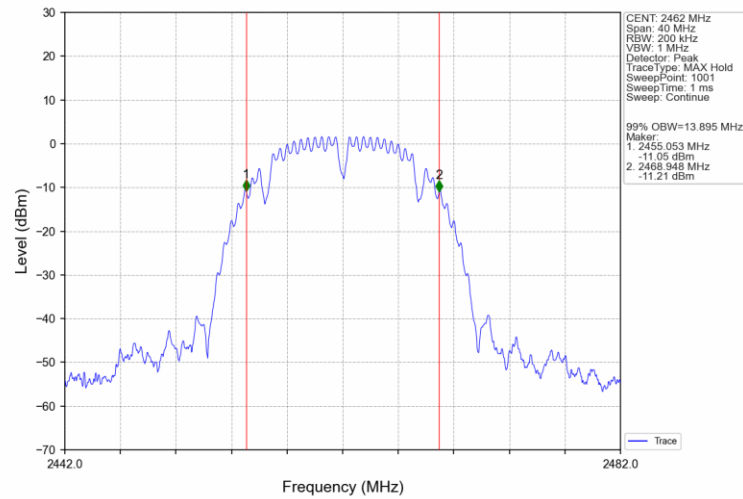
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	10.236	>=0.5	Pass
		2437	/	/	1	10.232	>=0.5	Pass
		2462	/	/	1	10.229	>=0.5	Pass
802.11g	SISO	2412	/	/	1	16.383	>=0.5	Pass
		2437	/	/	1	16.372	>=0.5	Pass
		2462	/	/	1	16.349	>=0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	1	17.603	>=0.5	Pass
		2437	/	/	1	17.528	>=0.5	Pass
		2462	/	/	1	17.476	>=0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	1	36.367	>=0.5	Pass
		2437	/	/	1	36.449	>=0.5	Pass
		2452	/	/	1	36.427	>=0.5	Pass
802.11ax (HEW20)	MIMO	2412	SU	/	1	19.019	>=0.5	Pass
		2437	SU	/	1	18.982	>=0.5	Pass
		2462	SU	/	1	18.988	>=0.5	Pass
802.11ax (HEW40)	MIMO	2422	SU	/	1	37.930	>=0.5	Pass
		2437	SU	/	1	37.339	>=0.5	Pass
		2452	SU	/	1	37.633	>=0.5	Pass

2.2 Test Graph

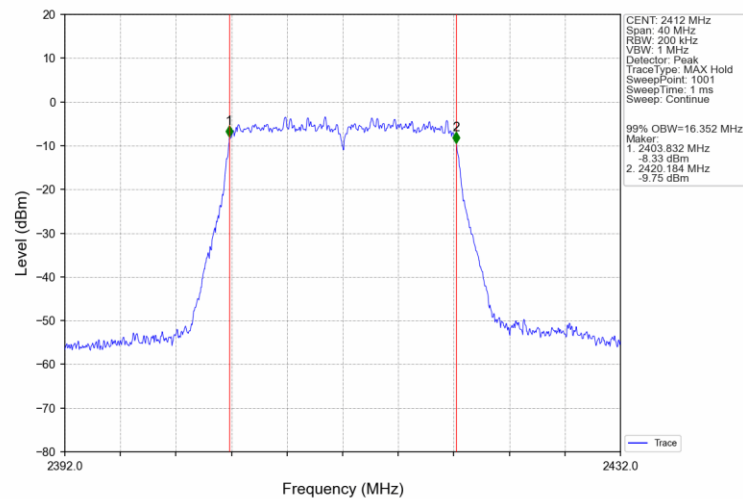
2.2.1 OBW



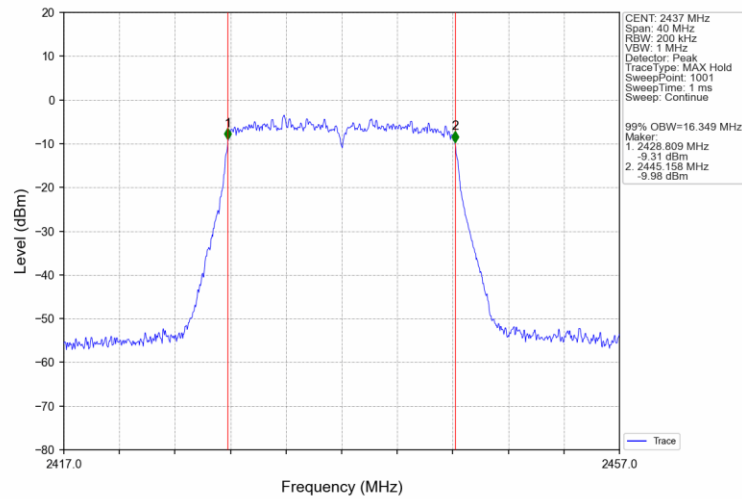
802.11b HCH 2462MHz_Ant1 (SISO) NTN



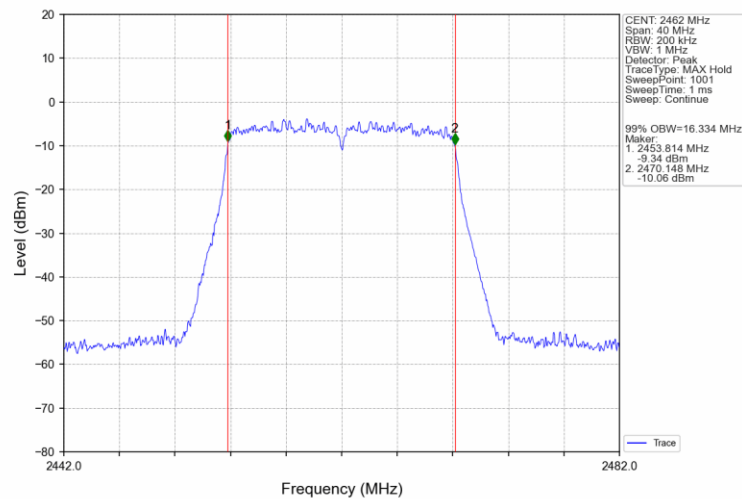
802.11g LCH 2412MHz_Ant1 (SISO) NTN



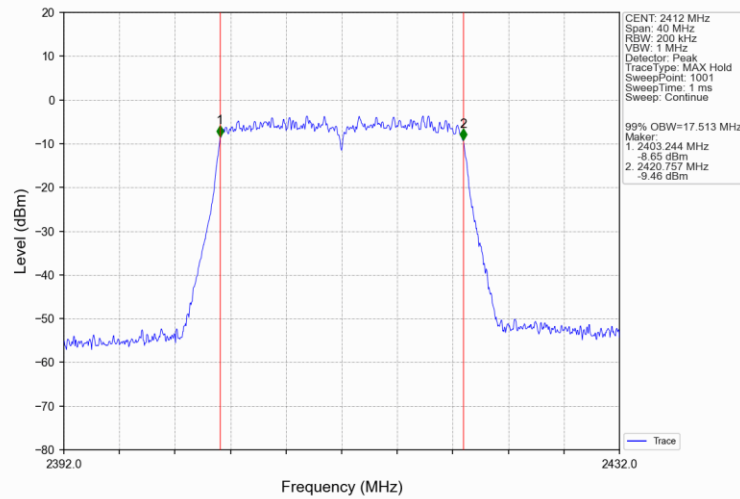
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



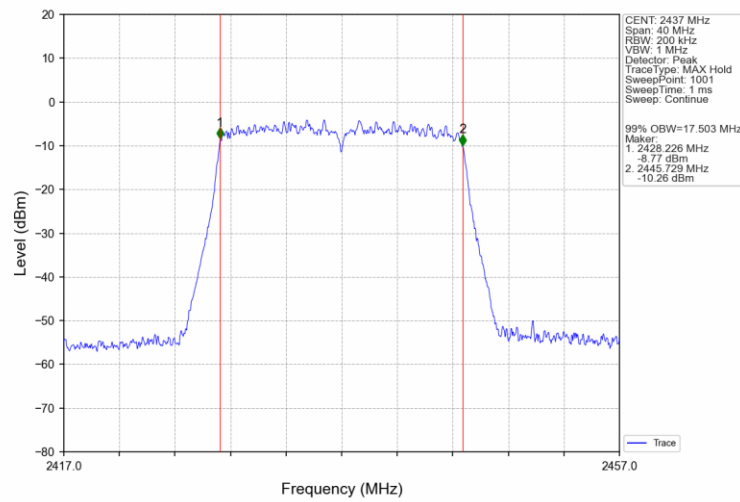
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



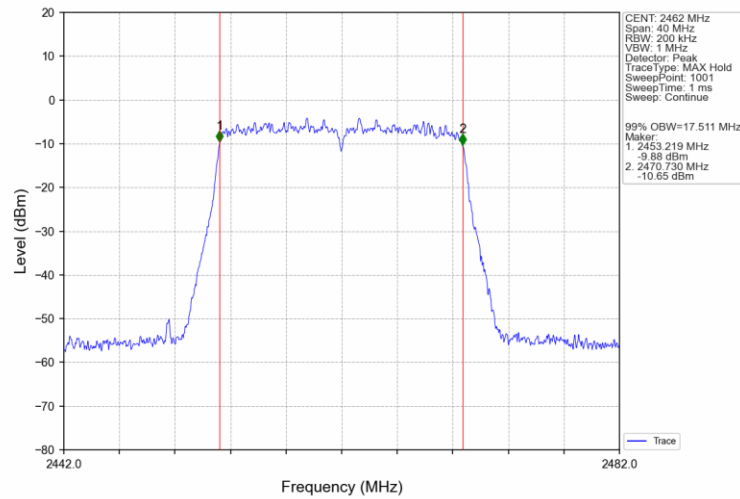
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



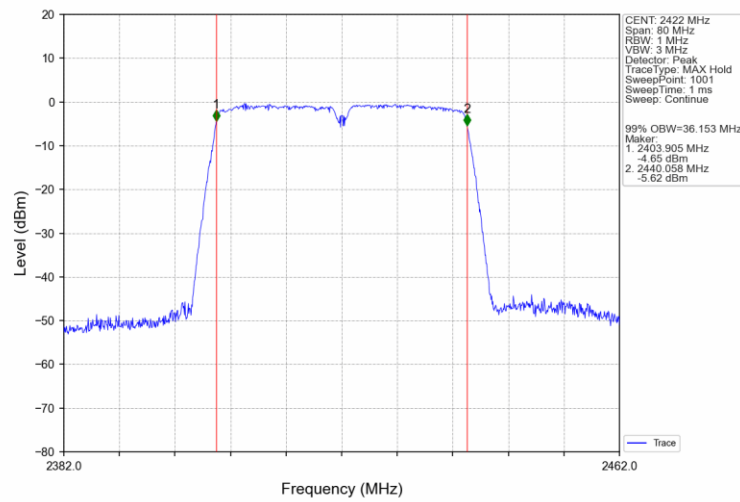
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



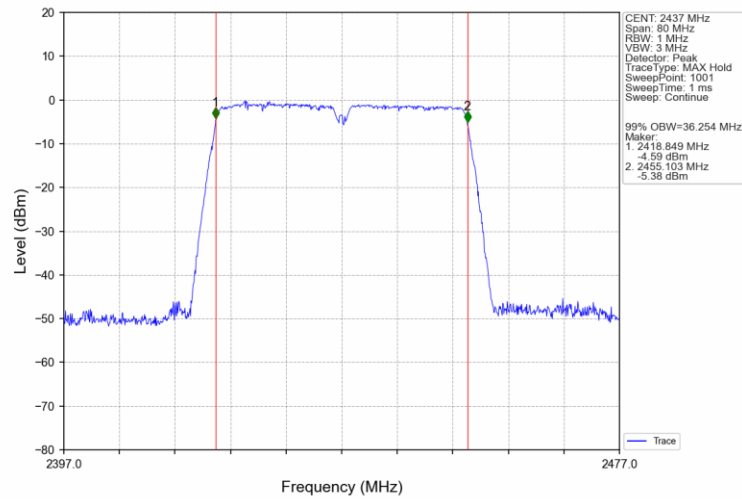
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTNV



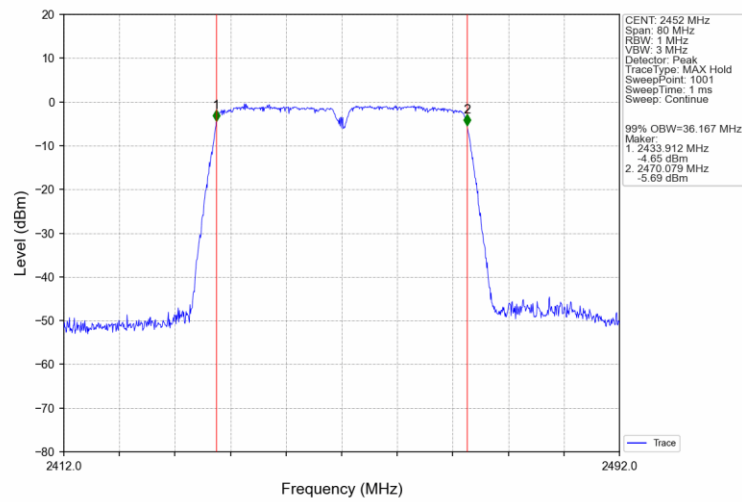
802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTNV



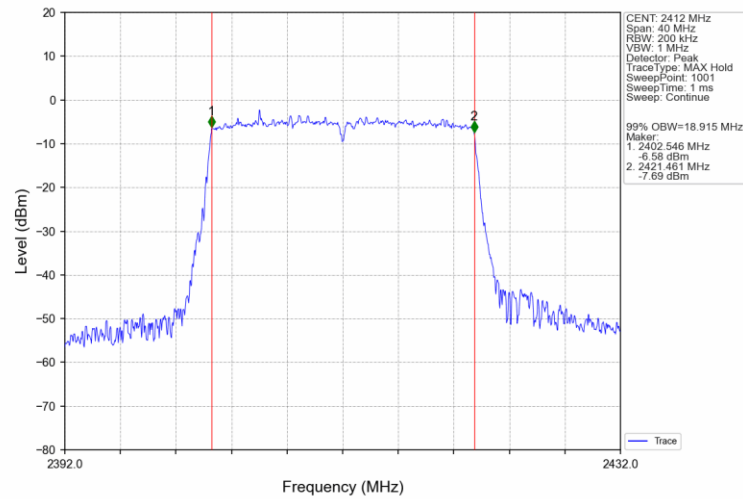
802.11n(HT40) MCH 2437MHz_Ant1 (MIMO) NTNv



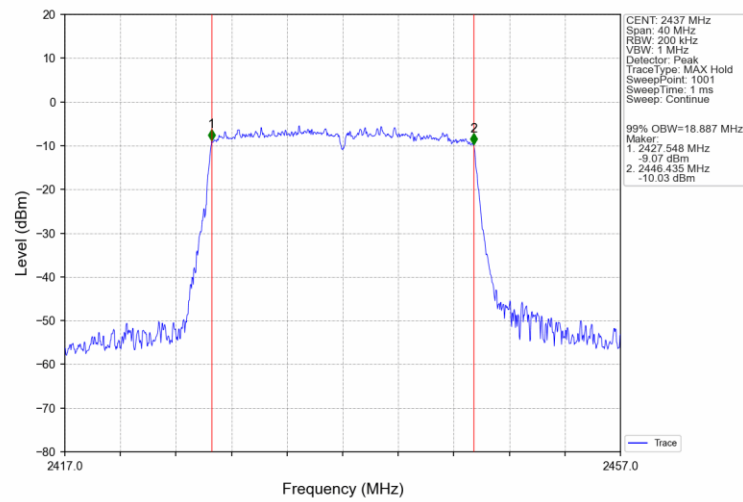
802.11n(HT40) HCH 2452MHz_Ant1 (MIMO) NTNv



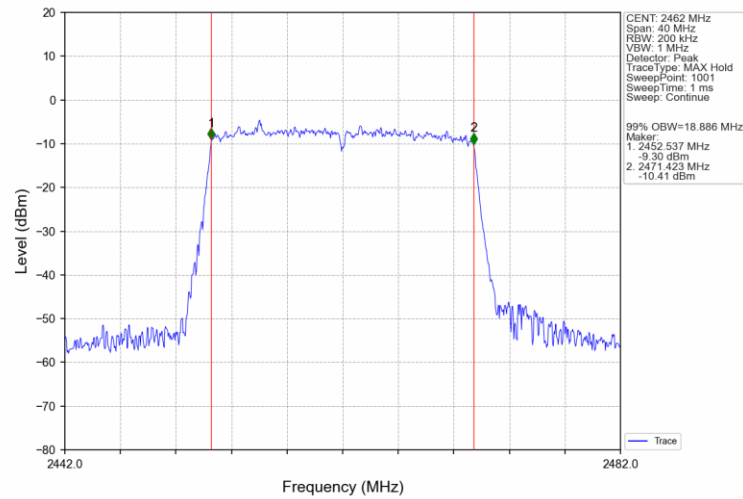
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (MIMO) NTN



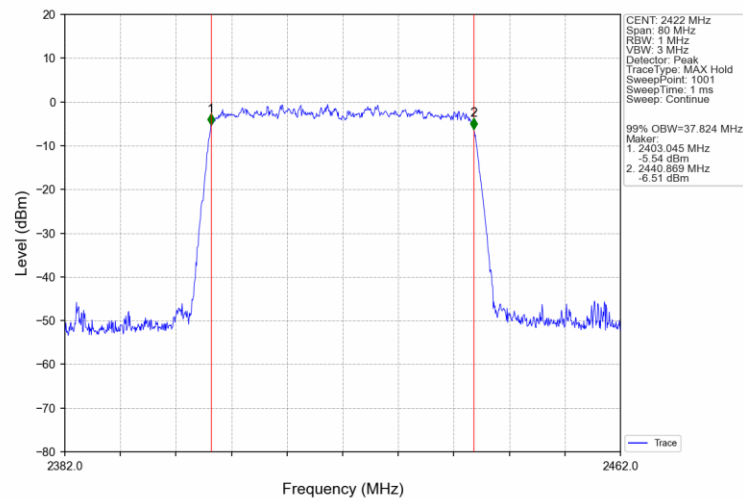
802.11ax(HEW20) MCH 2437MHz SU / Ant1 (MIMO) NTN



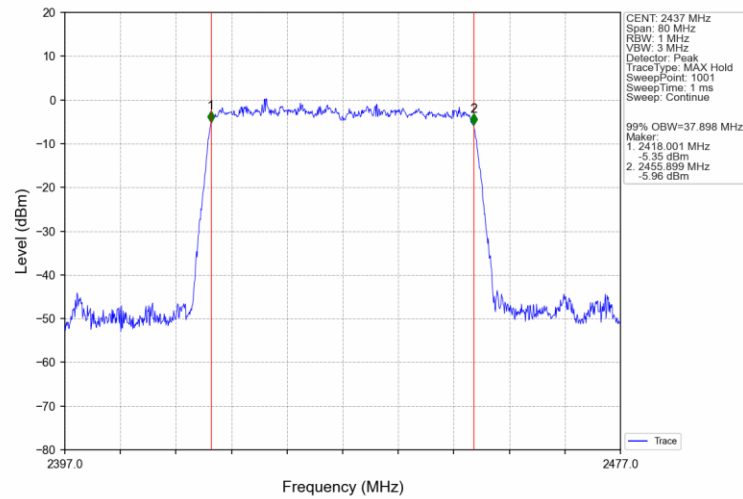
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (MIMO) NTVN



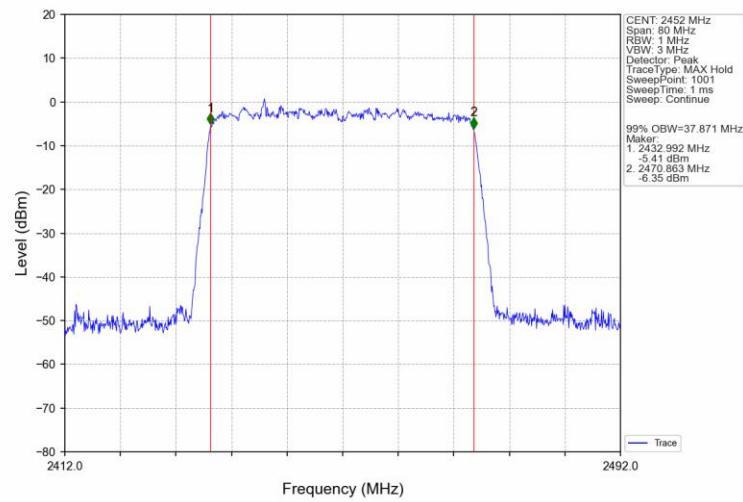
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (MIMO) NTVN



802.11ax(HEW40) MCH 2437MHz SU / Ant1 (MIMO) NTVN

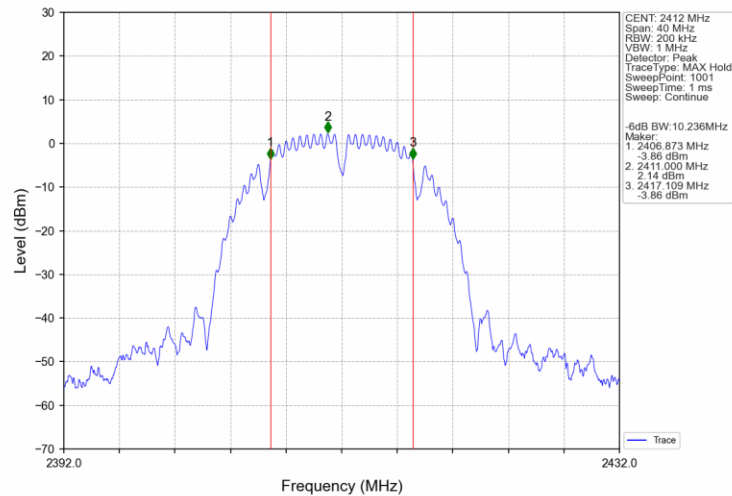


802.11ax(HEW40) HCH 2452MHz SU / Ant1 (MIMO) NTVN

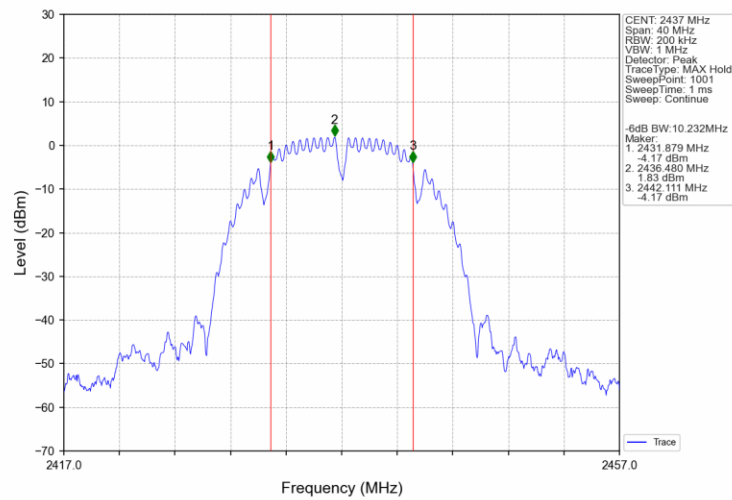


2.2.2 6dB BW

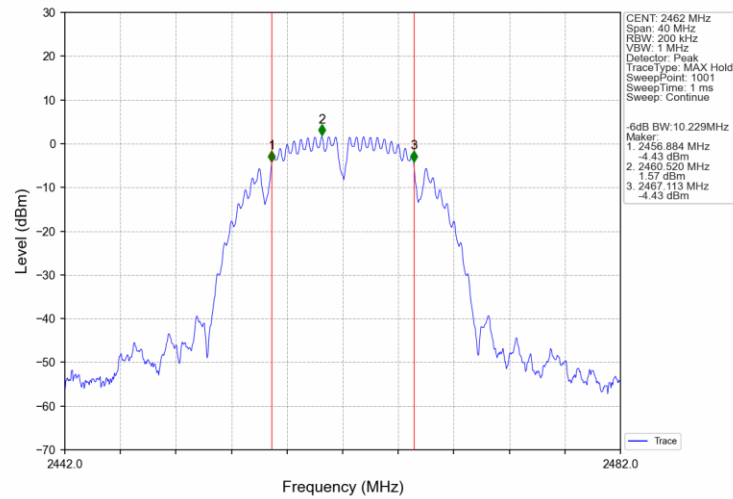
802.11b LCH 2412MHz_Ant1 (SISO)_NTNV



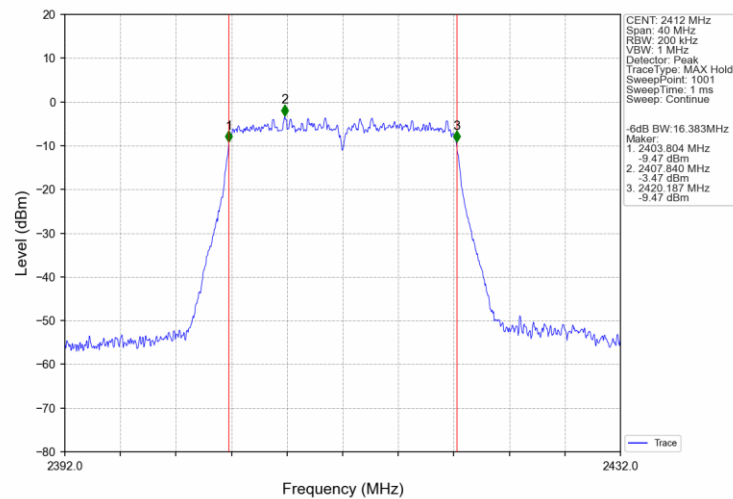
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



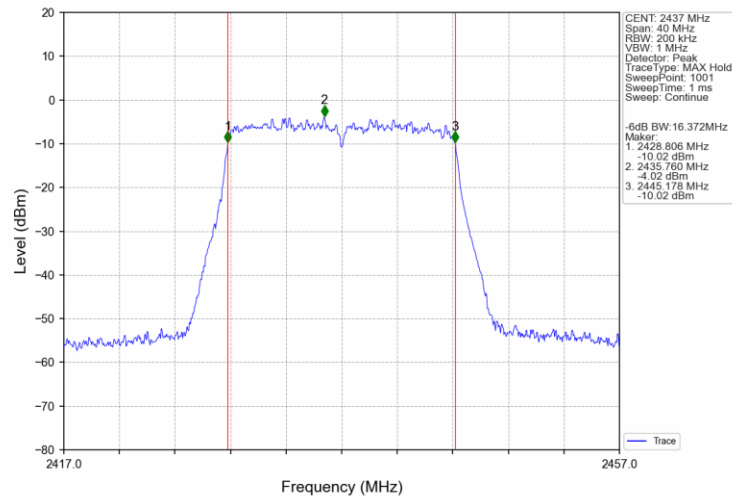
802.11b HCH 2462MHz_Ant1 (SISO) NTNv



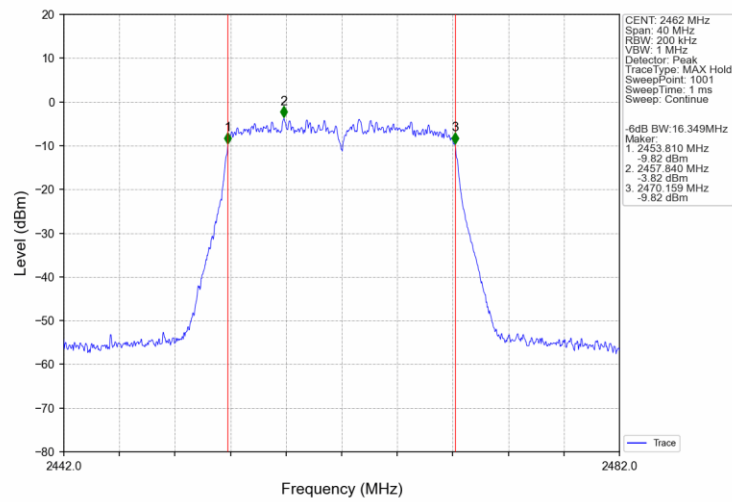
802.11g LCH 2412MHz_Ant1 (SISO) NTNv



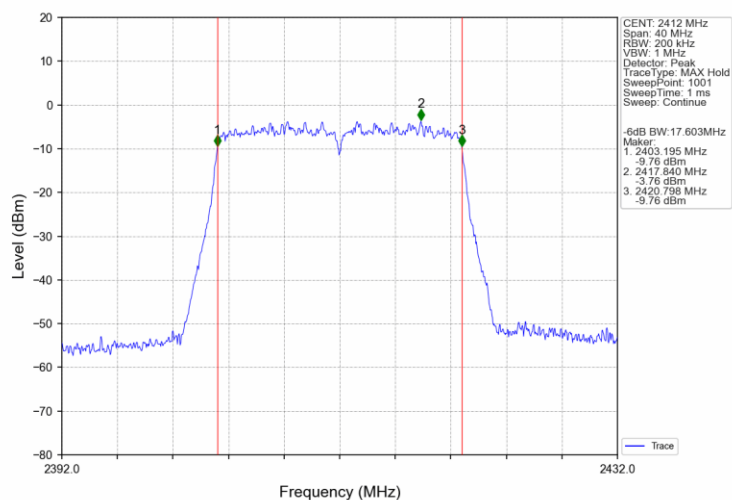
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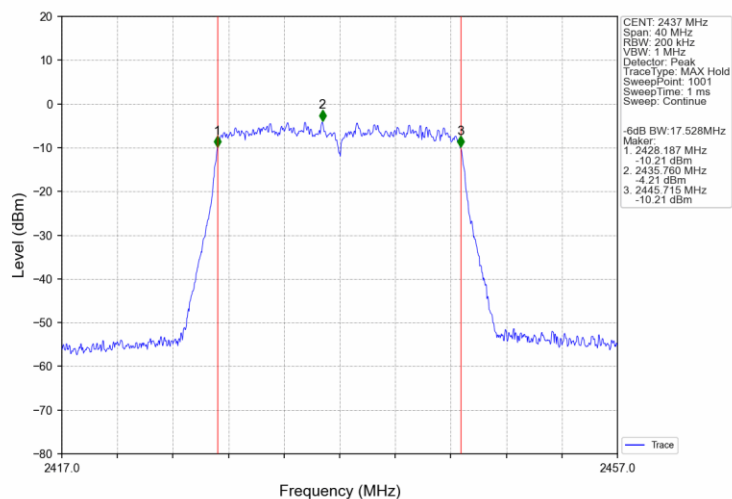
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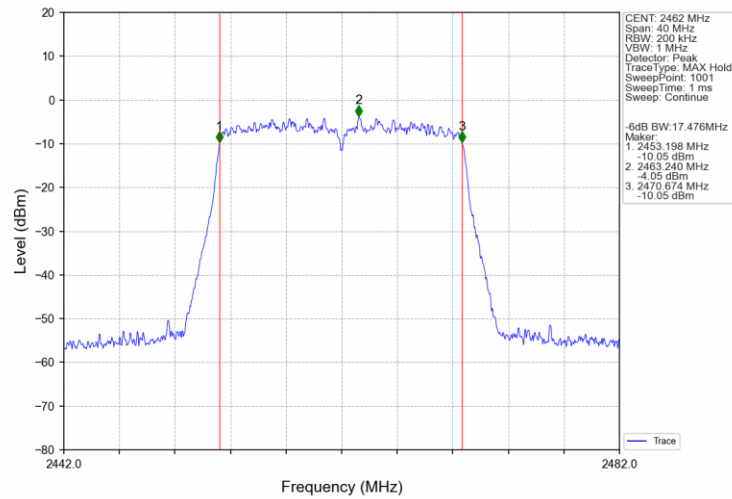
802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV



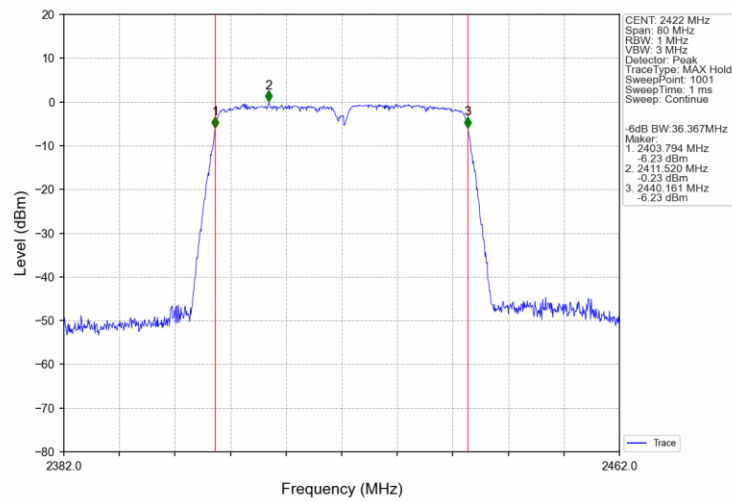
802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV



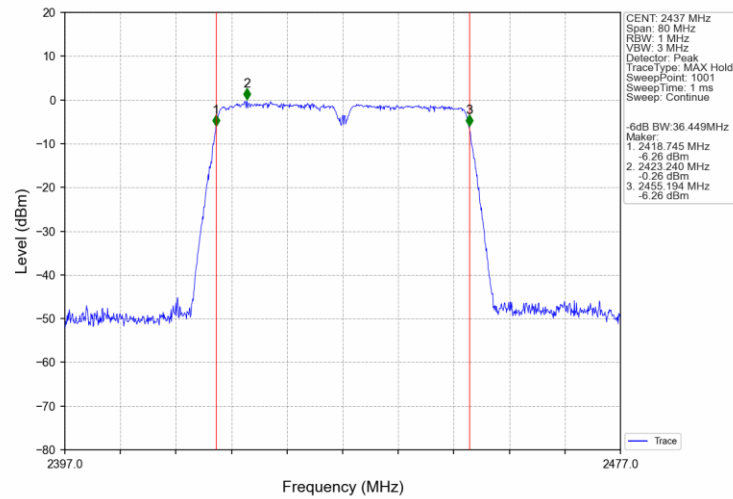
802.11n(HT20) HCH 2462MHz_Ant1 (MIMO) NTN



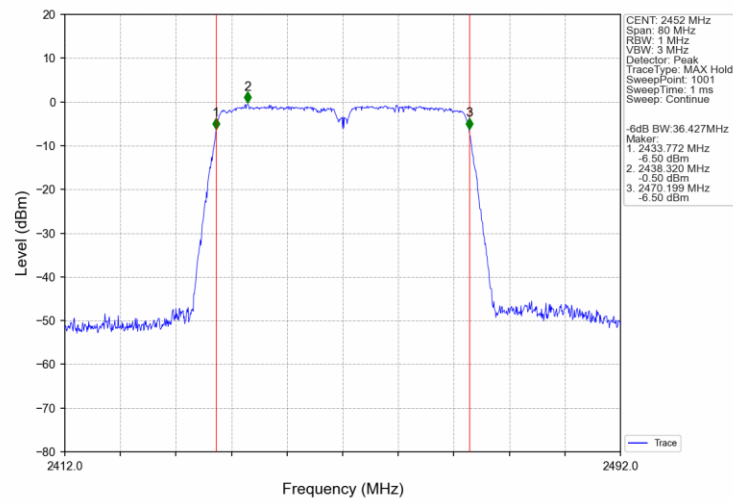
802.11n(HT40) LCH 2422MHz_Ant1 (MIMO) NTN



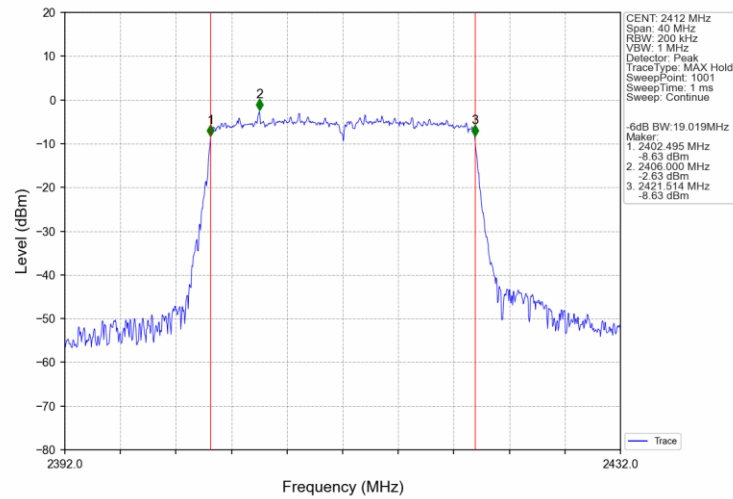
802.11n(HT40) MCH 2437MHz Ant1 (MIMO) NTNV



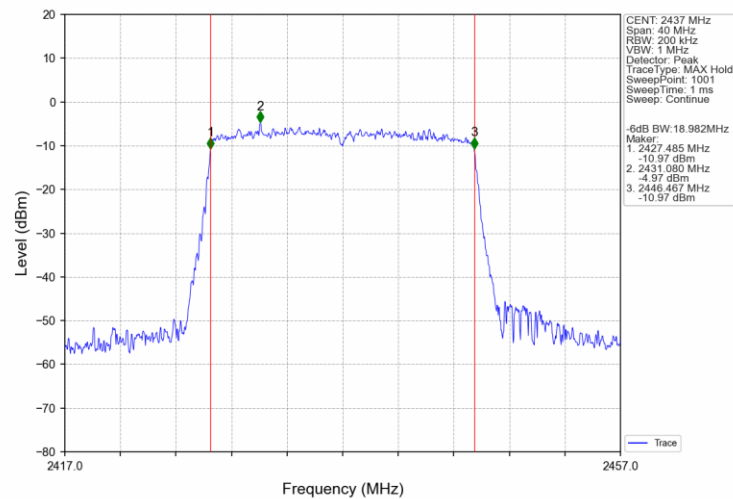
802.11n(HT40) HCH 2452MHz Ant1 (MIMO) NTNV



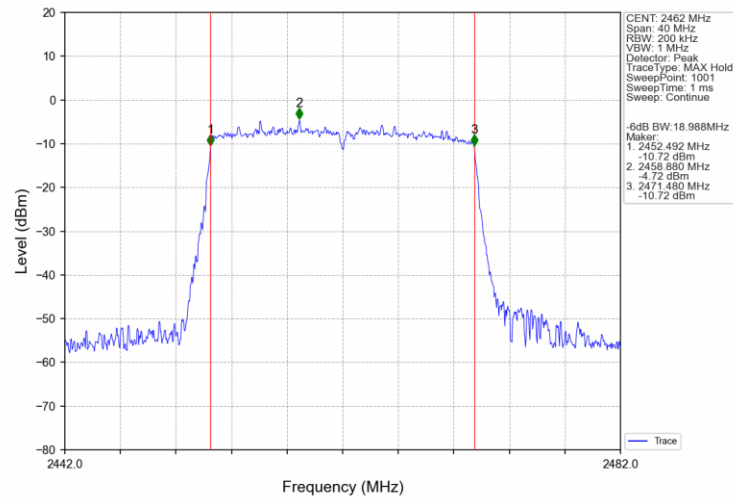
802.11ax(HEW20) LCH 2412MHz SU / Ant1 (MIMO) NTN



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



802.11ax(HEW20) HCH 2462MHz SU / Ant1 (MIMO) NTN



802.11ax(HEW40) LCH 2422MHz SU / Ant1 (MIMO) NTN

