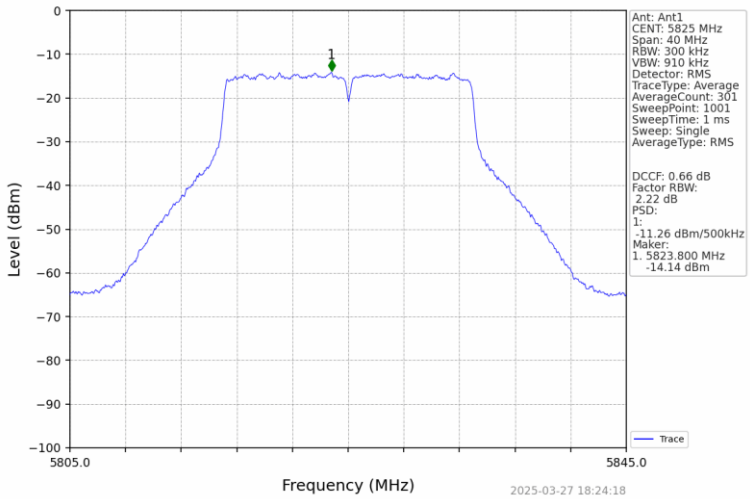
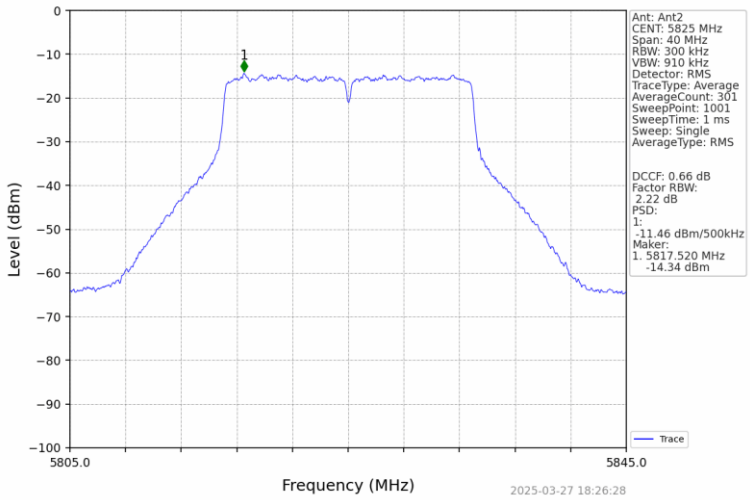
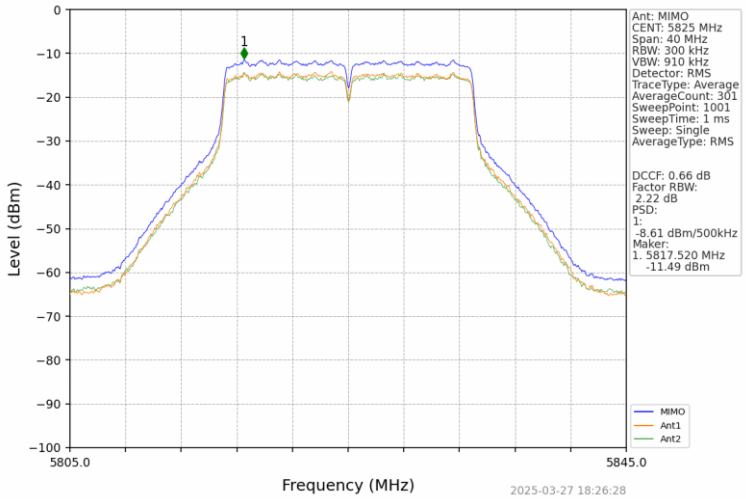
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



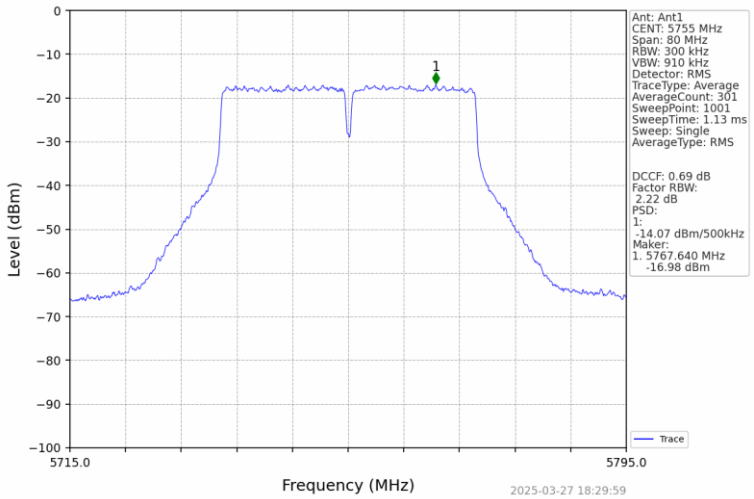
802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5825MHz_MIMO_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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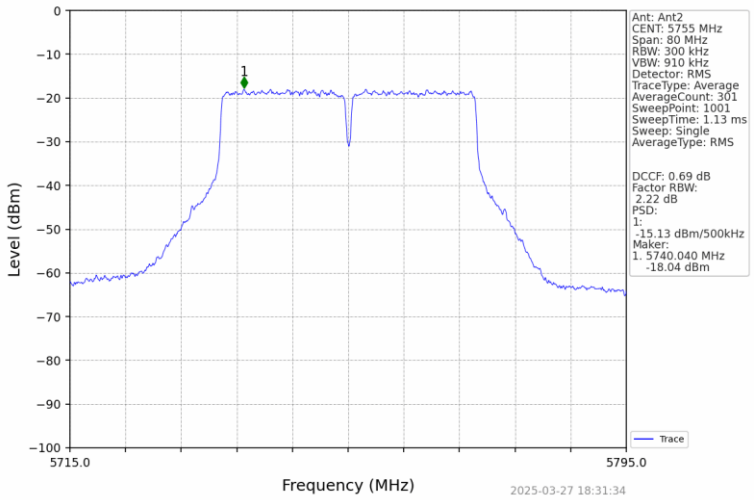

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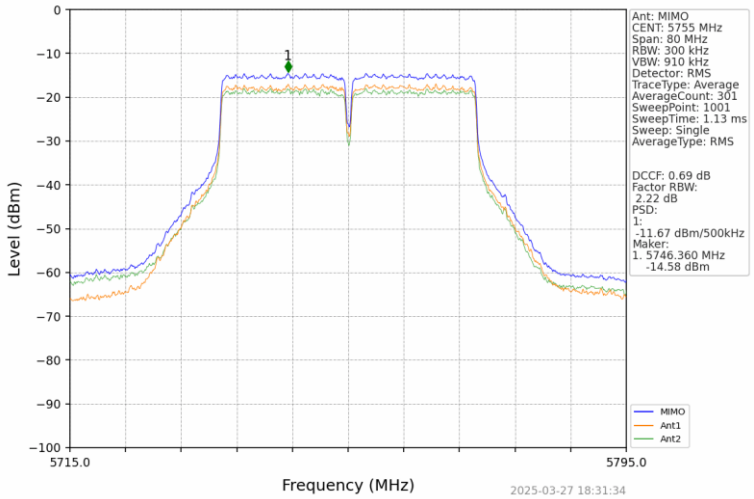
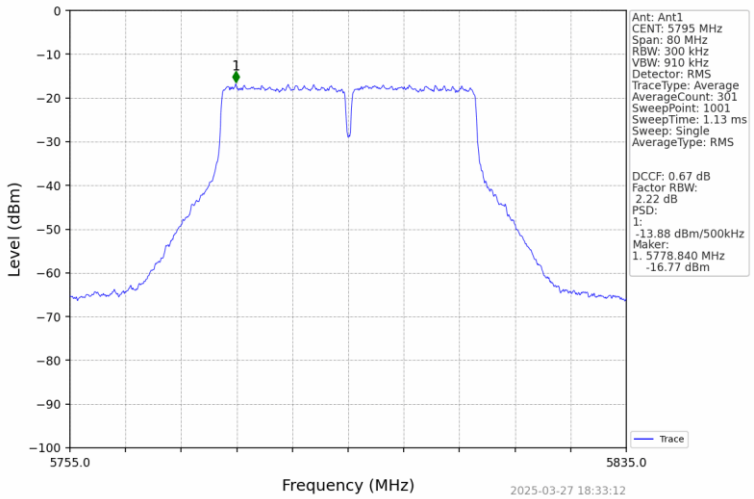


802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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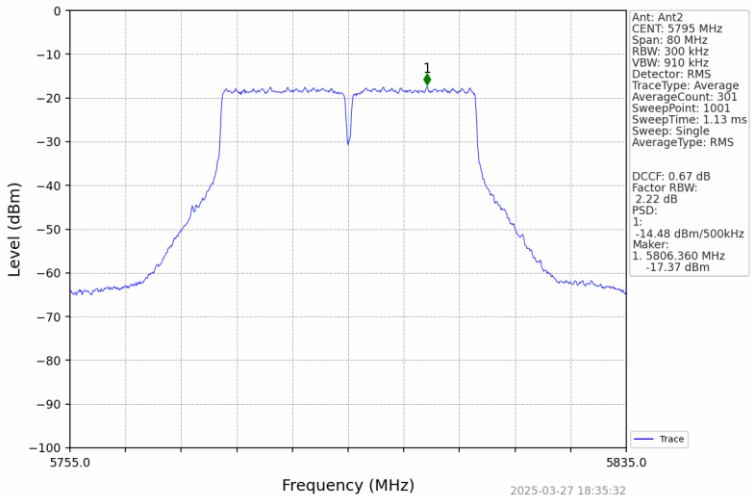
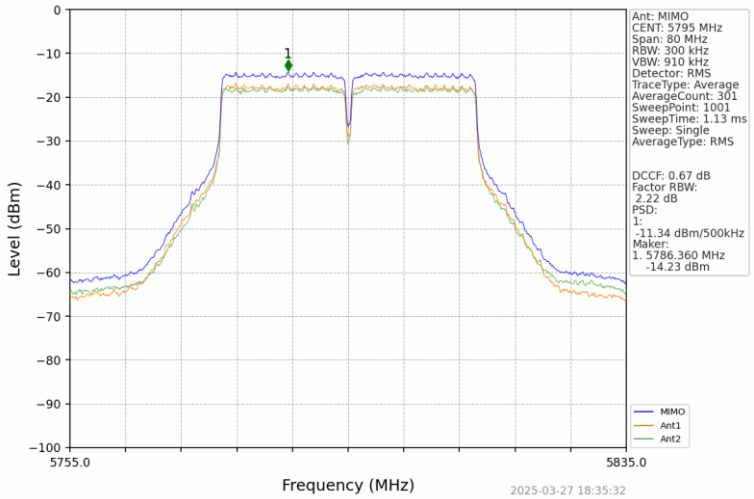
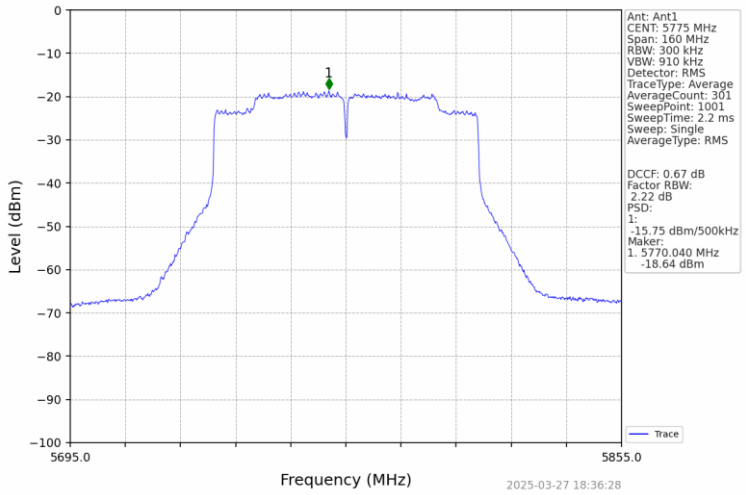


802.11ac(VHT40)_HCH_5795MHz_MIMO_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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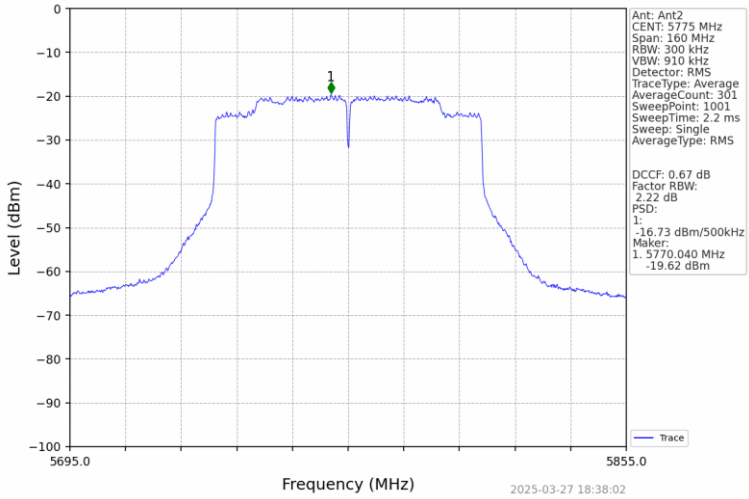
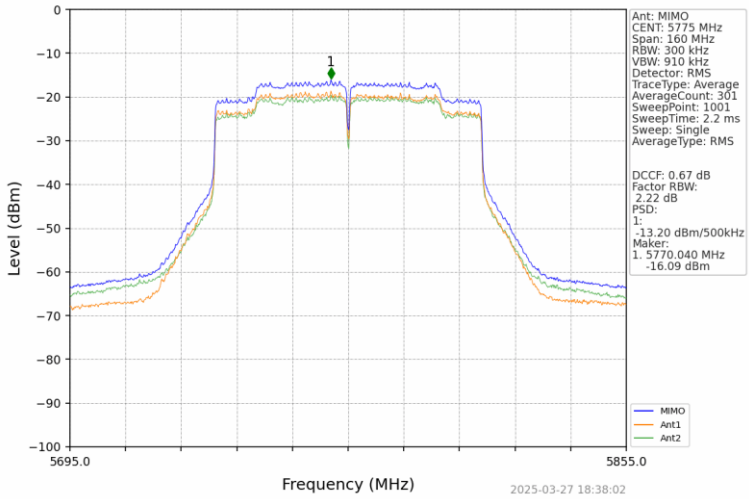
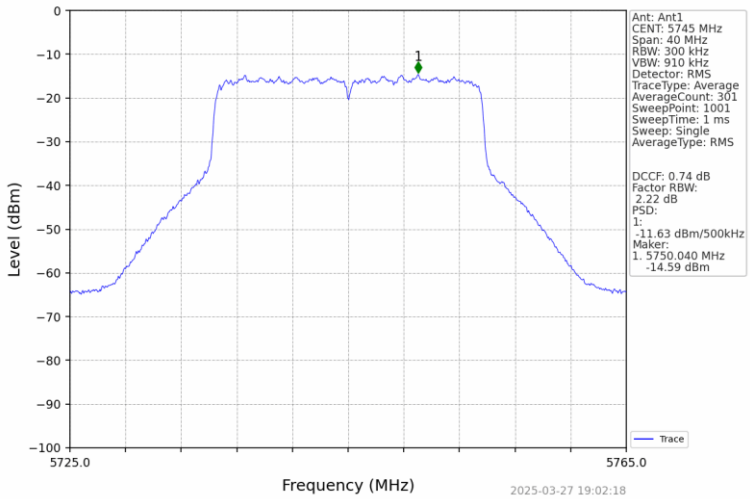


802.11ac(VHT80)_MCH_5775MHz_MIMO_NTNV



802.11ax(HEW20)_LCH_5745MHz_SU_ / _Ant1_NTNV



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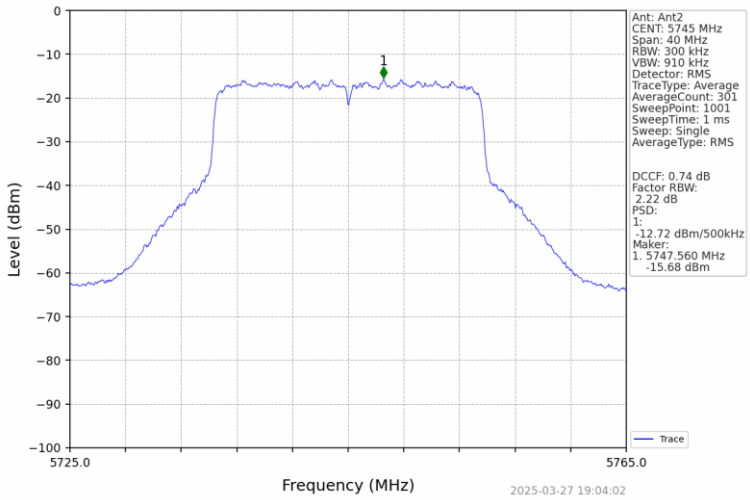
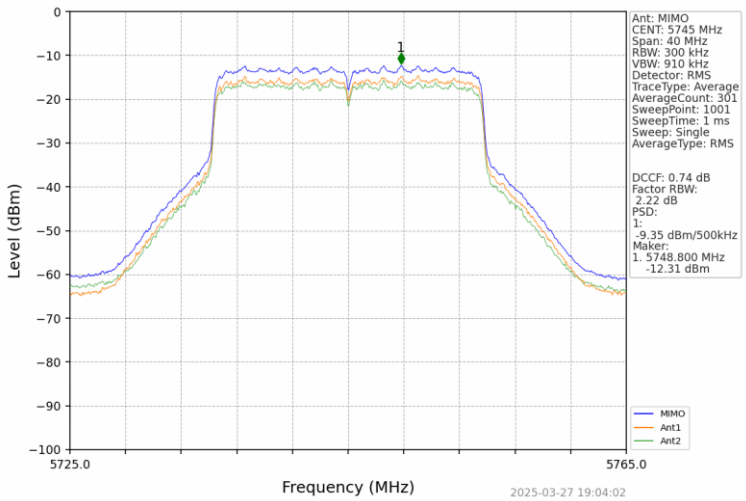
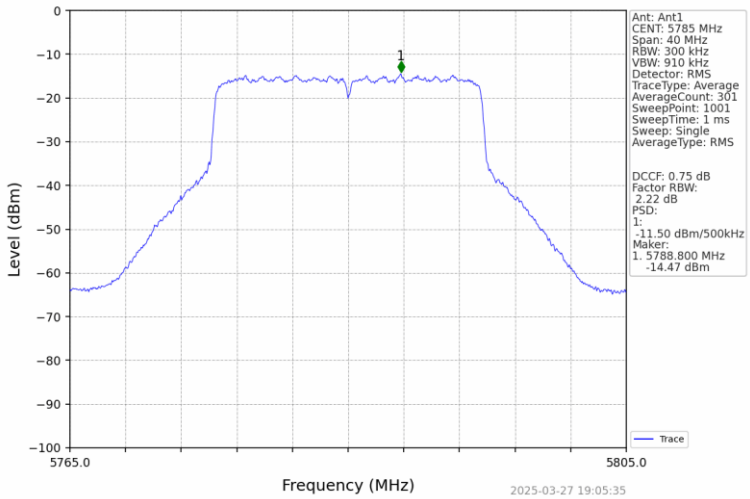


802.11ax(HEW20)_LCH_5745MHz_SU_ / _MIMO_NTNV



802.11ax(HEW20)_MCH_5785MHz_SU_ / _Ant1_NTNV



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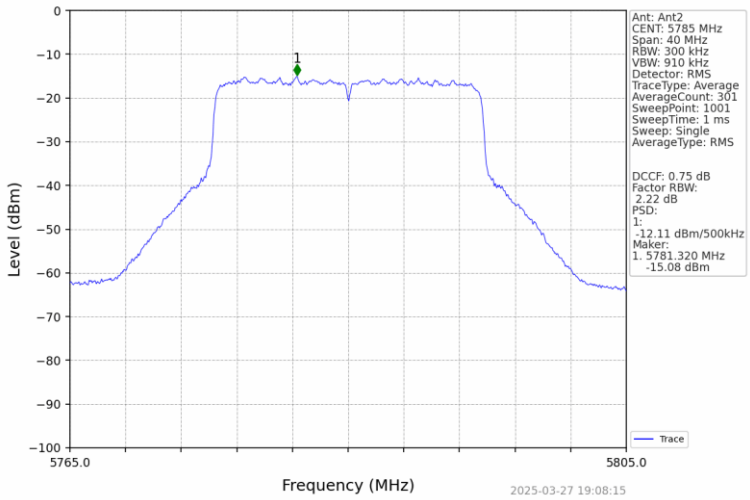
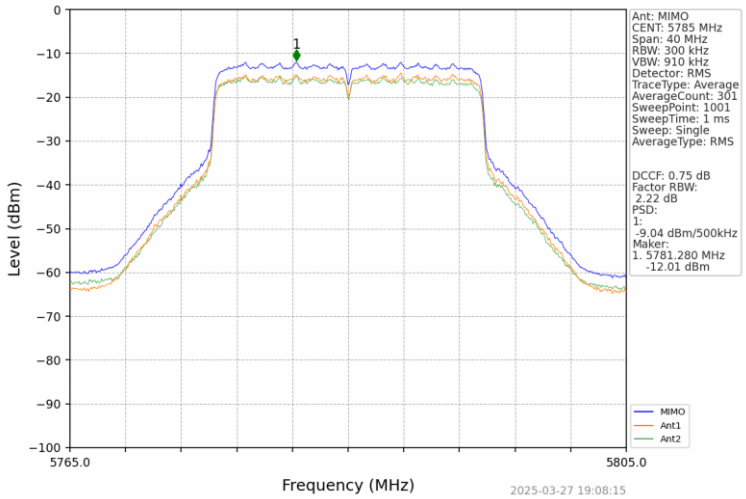
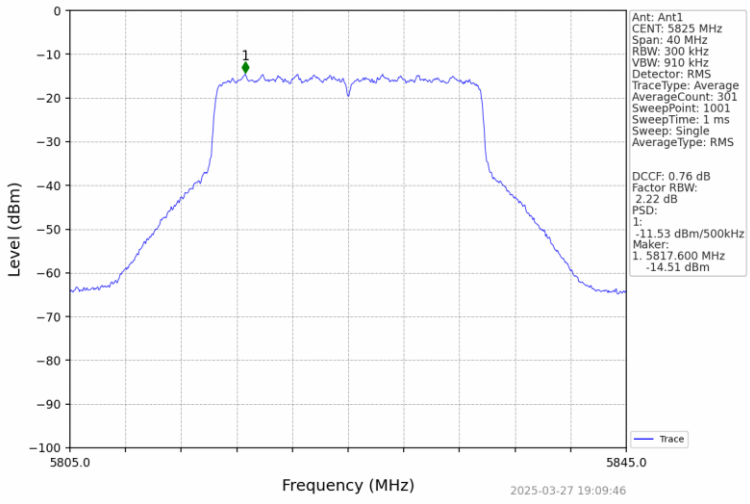


802.11ax(HEW20)_MCH_5785MHz_SU_ / _MIMO_NTNV



802.11ax(HEW20)_HCH_5825MHz_SU_ / _Ant1_NTNV



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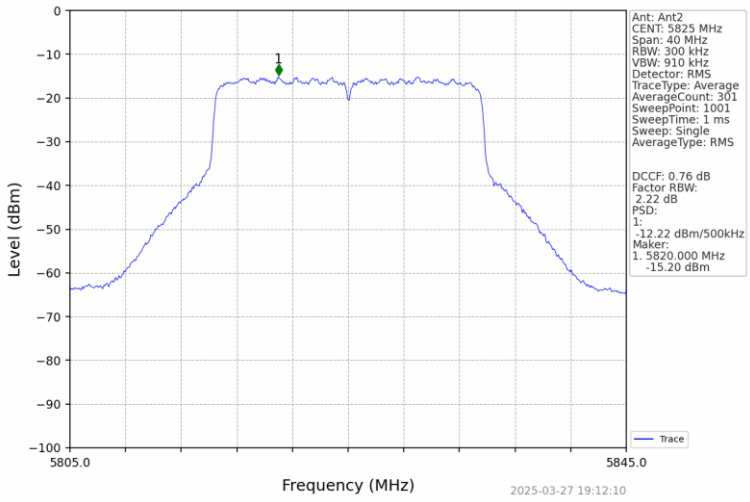
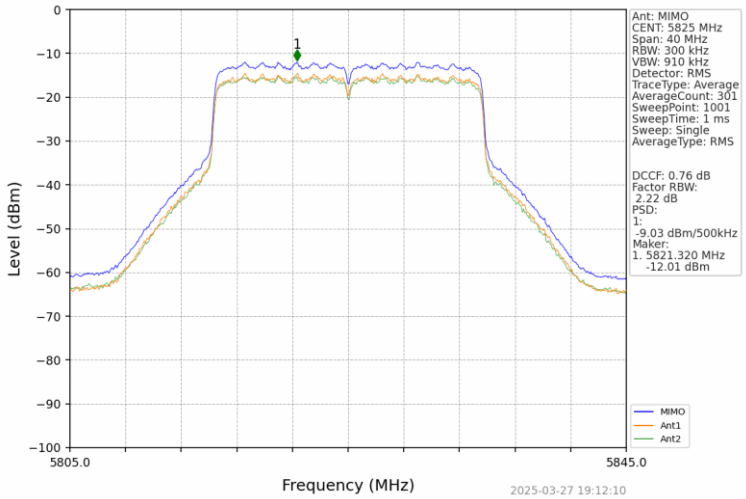
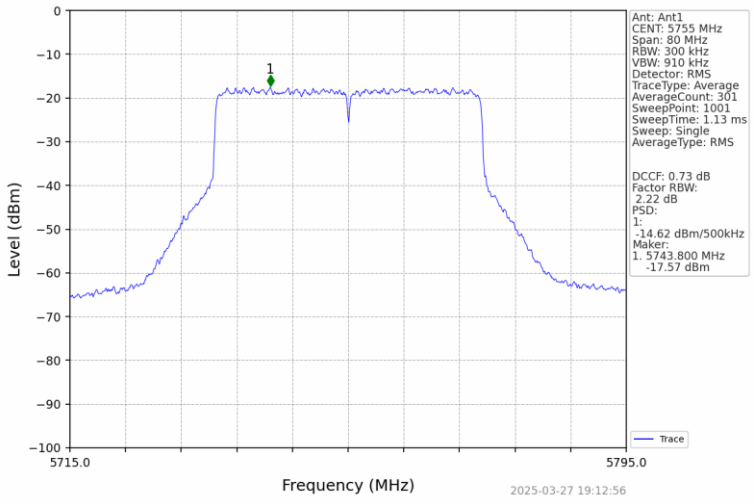


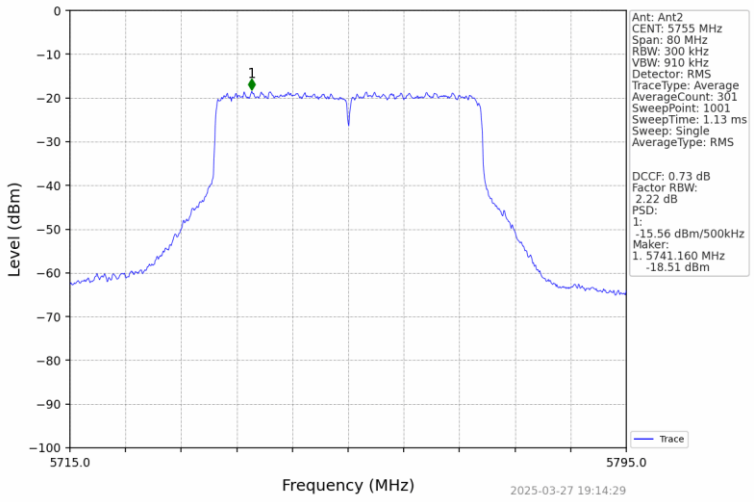
802.11ax(HEW20)_HCH_5825MHz_SU_ / _MIMO_NTNV



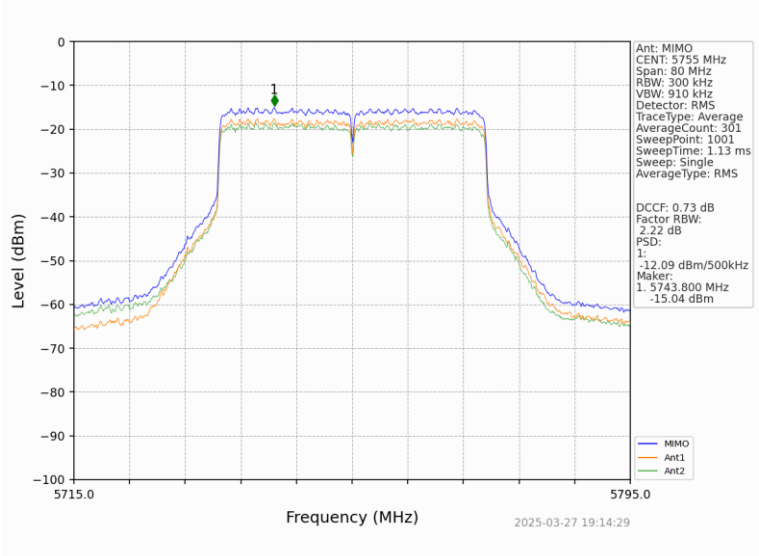
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant1_NTNV



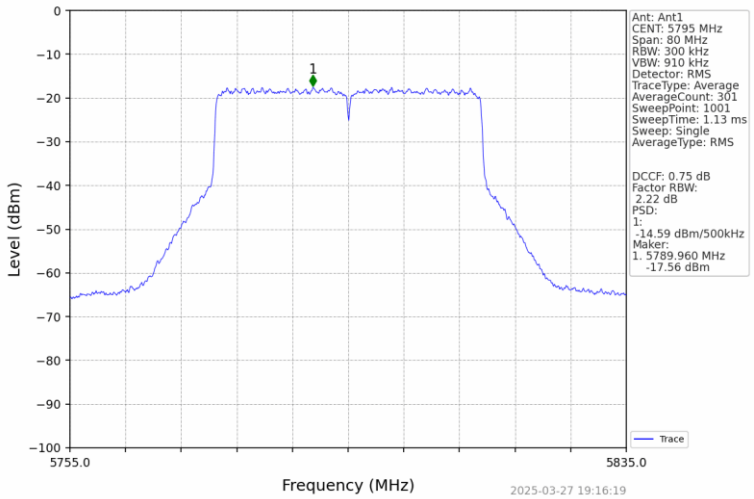
802.11ax(HEW40)_LCH_5755MHz_SU_ / _Ant2_NTNV



802.11ax(HEW40)_LCH_5755MHz_SU_ / _MIMO_NTNV



802.11ax(HEW40)_HCH_5795MHz_SU_ / _Ant1_NTNV



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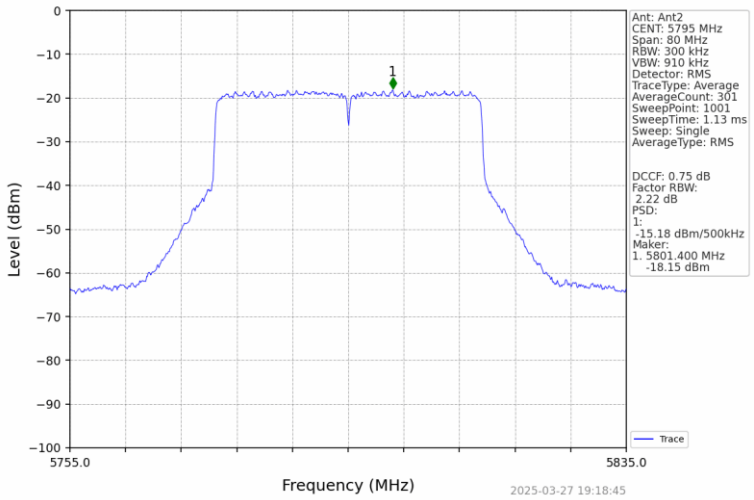
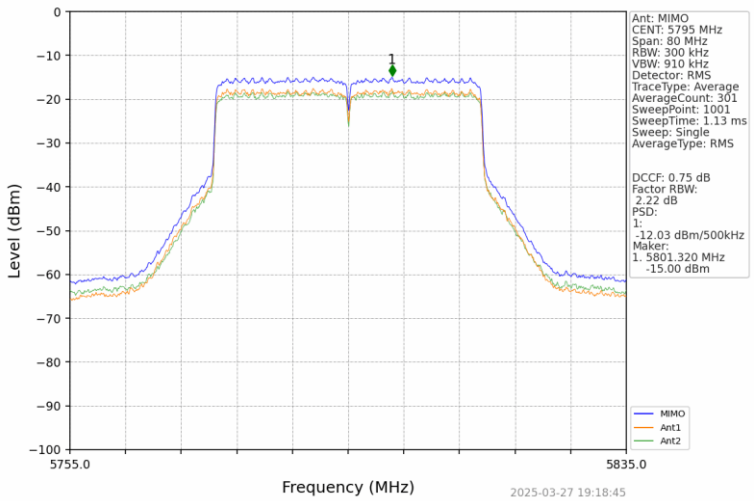
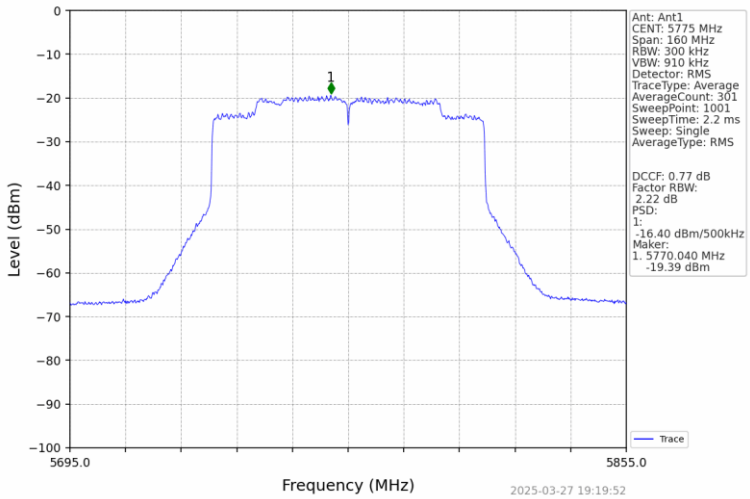


802.11ax(HEW40)_HCH_5795MHz_SU_ / _MIMO_NTNV



802.11ax(HEW80)_MCH_5775MHz_SU_ / _Ant1_NTNV



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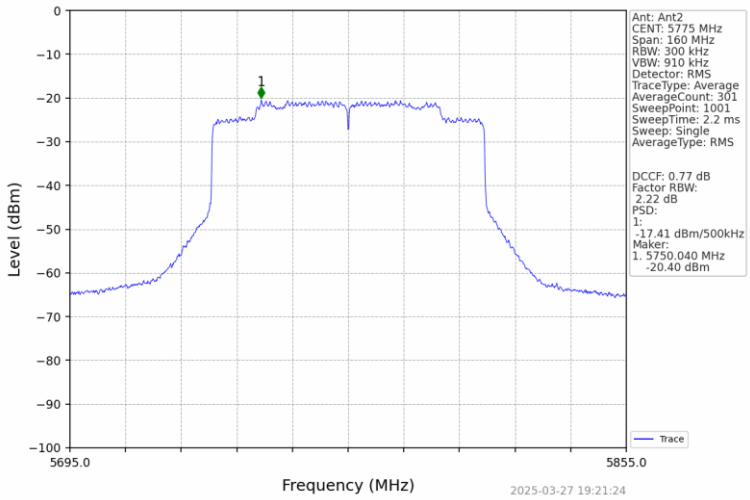
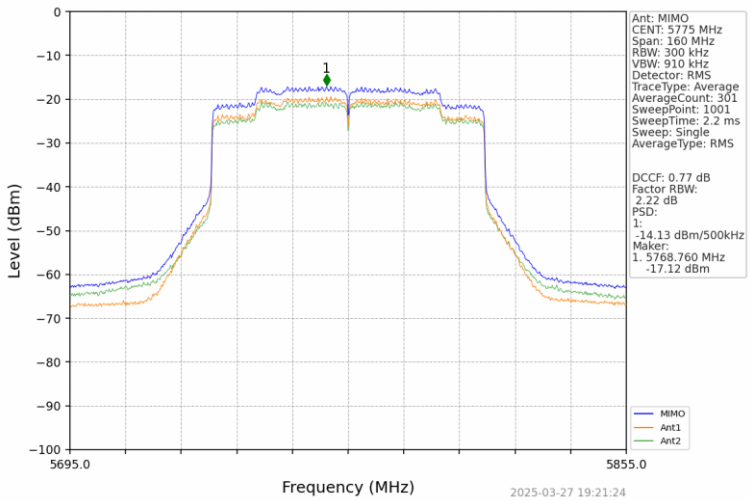


802.11ax(HEW80)_MCH_5775MHz_SU_ / _MIMO_NTNV



4.5 Emission Bandwidth (26dB Bandwidth)

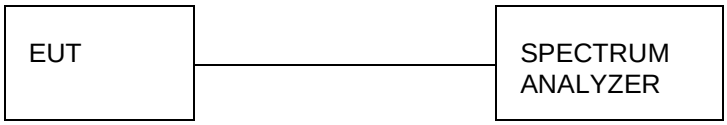
Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

Test Configuration



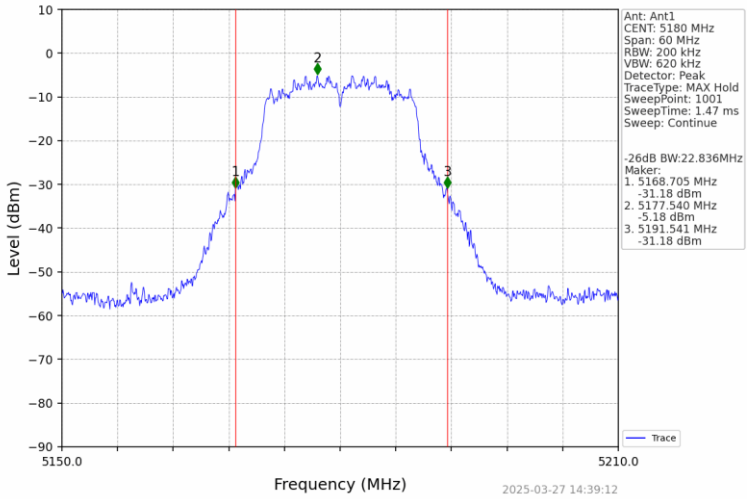
Test Results

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	22.836	/	Pass
			2	22.859	/	Pass
		5200	1	22.428	/	Pass
			2	22.523	/	Pass
		5240	1	22.482	/	Pass
			2	22.894	/	Pass
802.11n (HT20)	MIMO	5180	1	22.391	/	Pass
			2	22.348	/	Pass
		5200	1	23.443	/	Pass
			2	22.947	/	Pass
		5240	1	22.110	/	Pass
			2	22.485	/	Pass
802.11n (HT40)	MIMO	5190	1	43.394	/	Pass
			2	43.380	/	Pass
		5230	1	43.141	/	Pass
			2	42.745	/	Pass
802.11ac (VHT20)	MIMO	5180	1	22.771	/	Pass
			2	23.211	/	Pass
		5200	1	22.681	/	Pass
			2	22.500	/	Pass
		5240	1	23.191	/	Pass
			2	23.572	/	Pass
802.11ac (VHT40)	MIMO	5190	1	42.873	/	Pass
			2	43.547	/	Pass
		5230	1	42.824	/	Pass
			2	43.048	/	Pass
802.11ac (VHT80)	MIMO	5210	1	84.382	/	Pass
			2	84.636	/	Pass
802.11ax (HEW20)	MIMO	5180	1	22.547	/	Pass
			2	22.685	/	Pass
		5200	1	23.399	/	Pass
			2	23.502	/	Pass
		5240	1	22.703	/	Pass
			2	23.353	/	Pass
802.11ax (HEW40)	MIMO	5190	1	42.214	/	Pass
			2	41.867	/	Pass

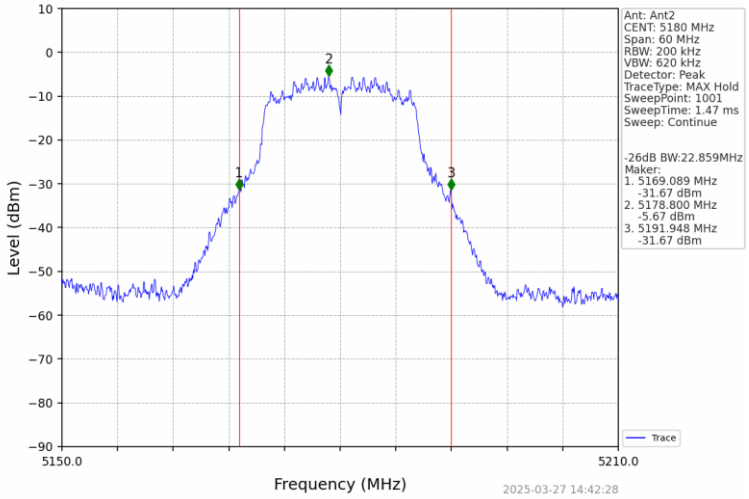
		5230	1	43.326	/	Pass
			2	42.920	/	Pass
802.11ax (HEW80)	MIMO	5210	1	82.912	/	Pass
			2	82.346	/	Pass

Test plot as follows:

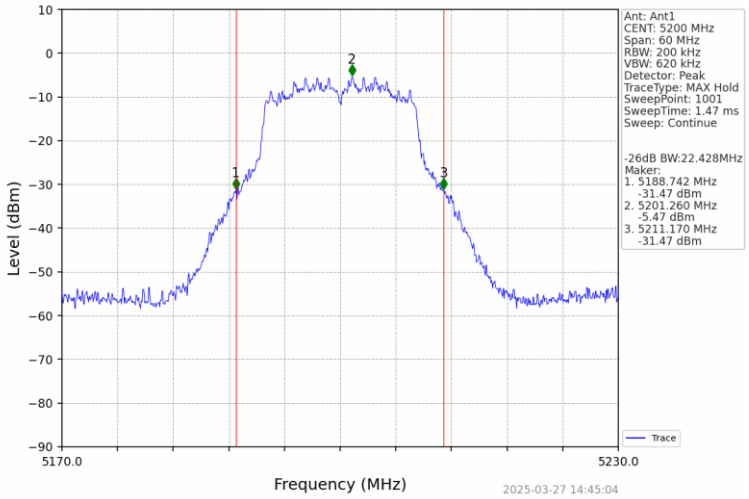
802.11a_LCH_5180MHz_Ant1_NTNV



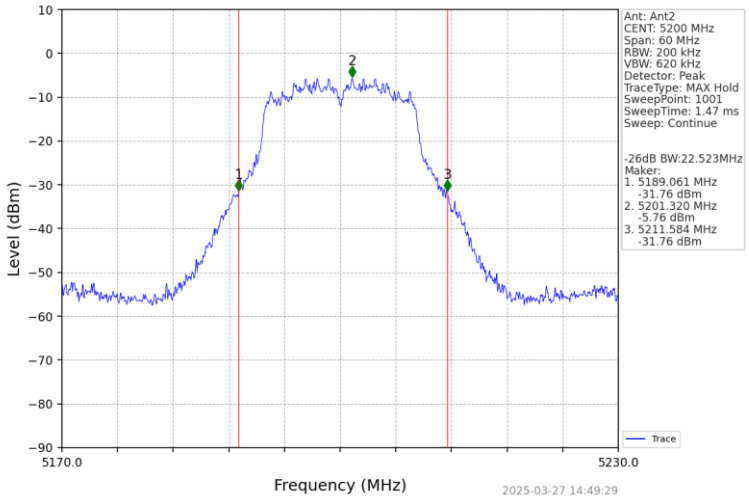
802.11a_LCH_5180MHz_Ant2_NTNV



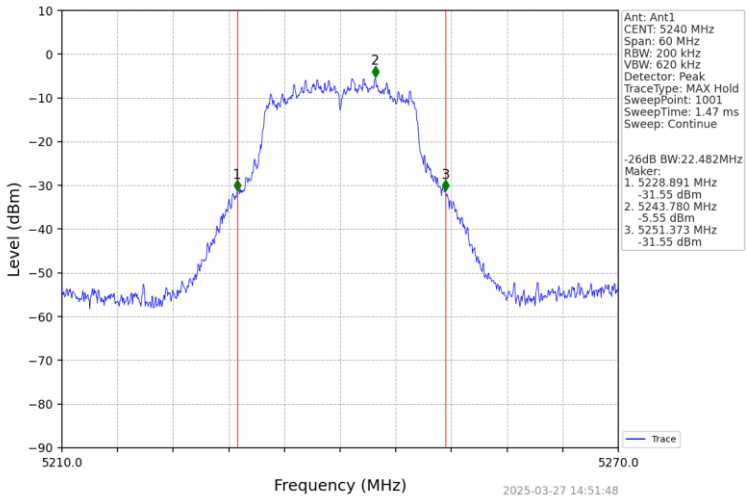
802.11a_MCH_5200MHz_Ant1_NTNV



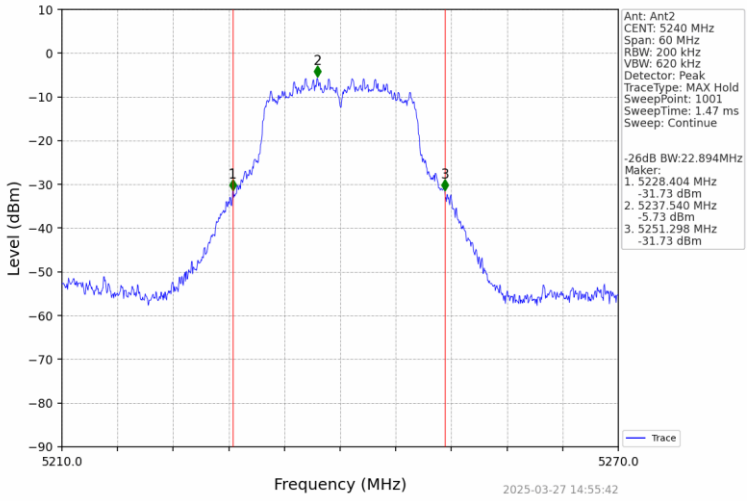
802.11a_MCH_5200MHz_Ant2_NTNV



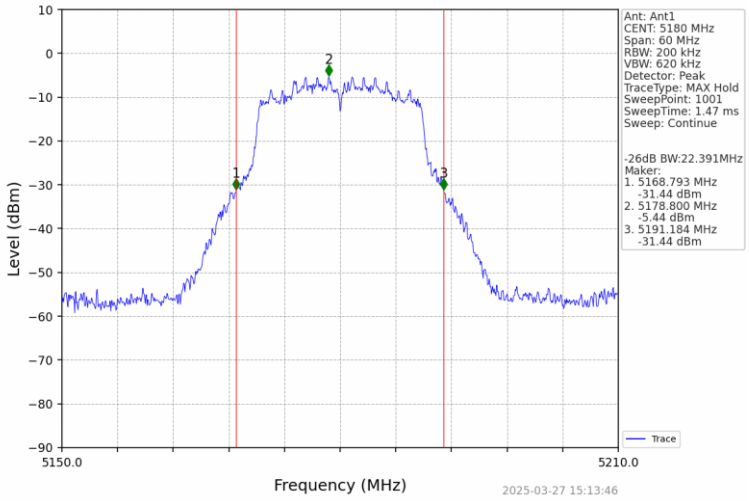
802.11a_HCH_5240MHz_Ant1_NTNV



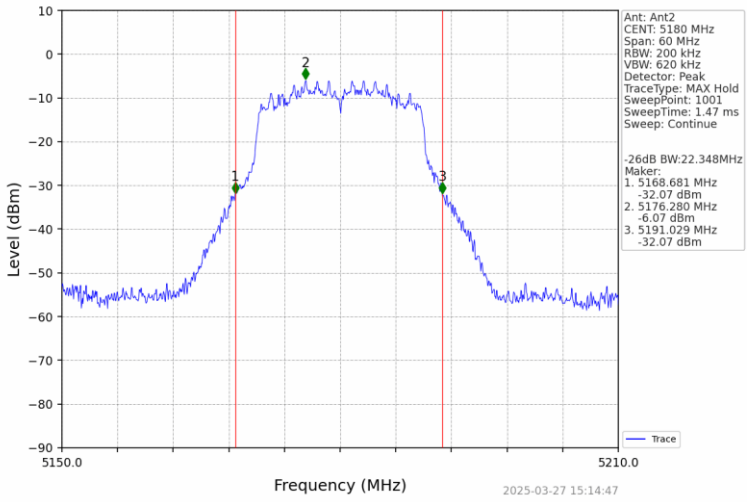
802.11a_HCH_5240MHz_Ant2_NTNV



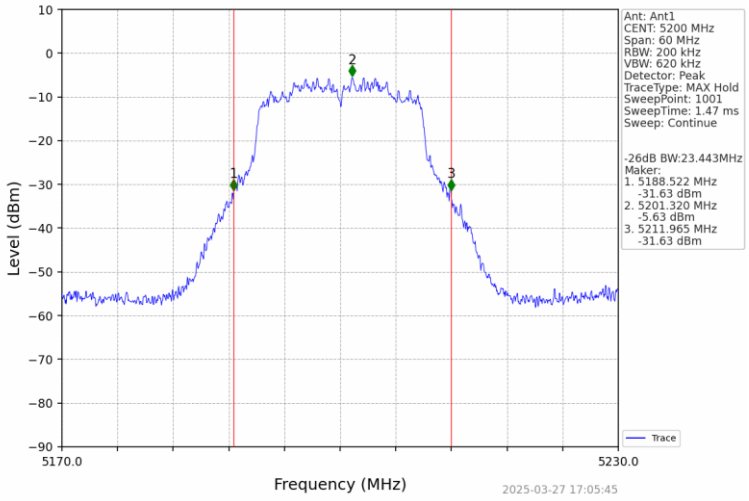
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



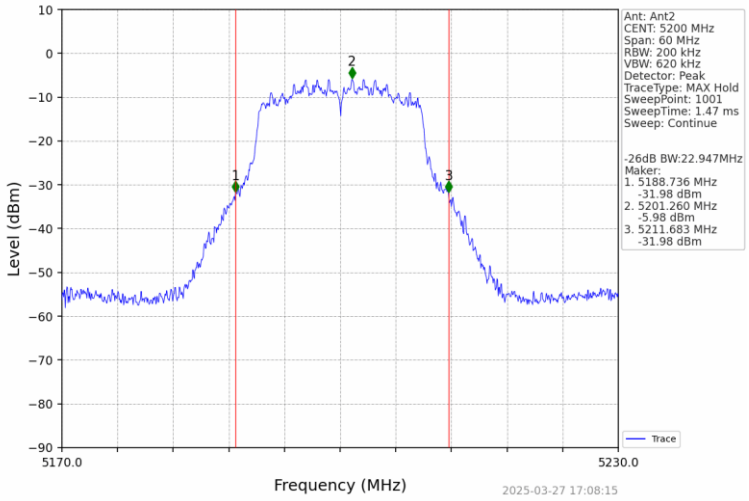
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



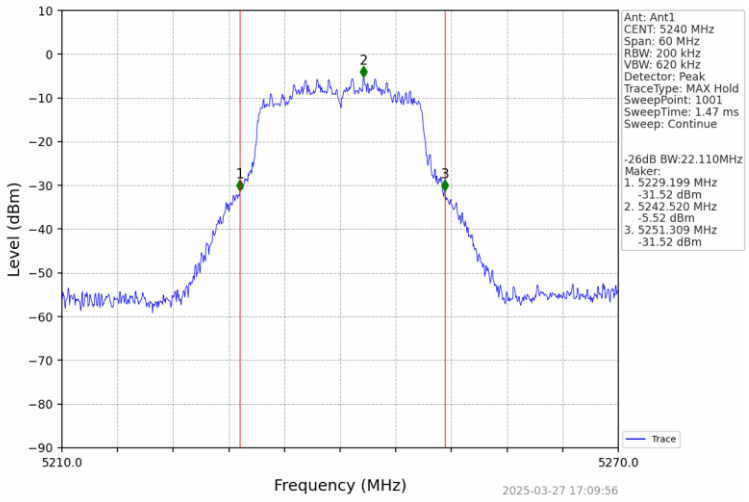
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



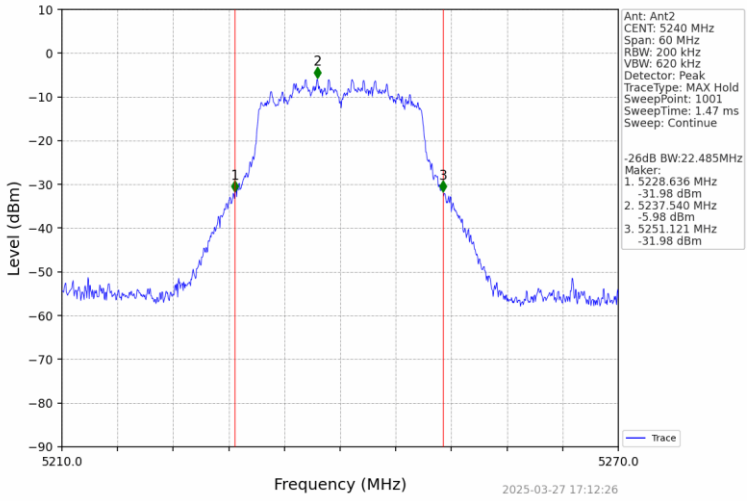
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



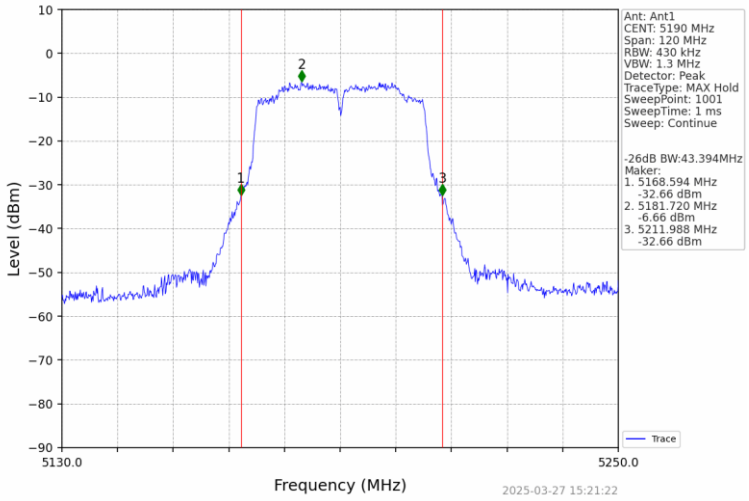
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



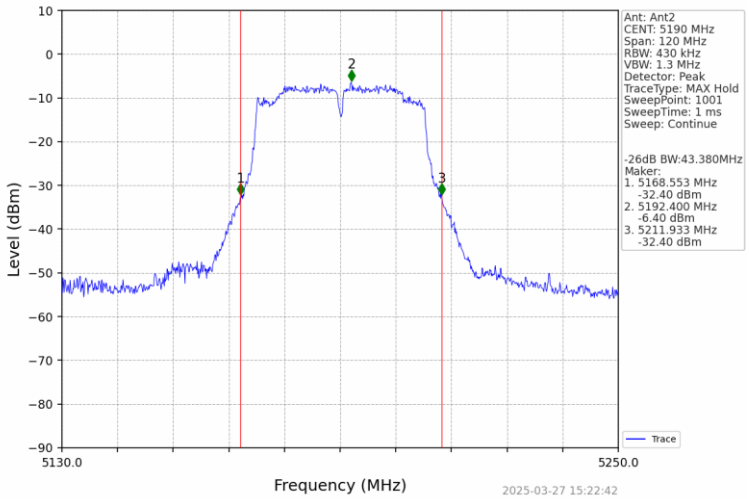
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



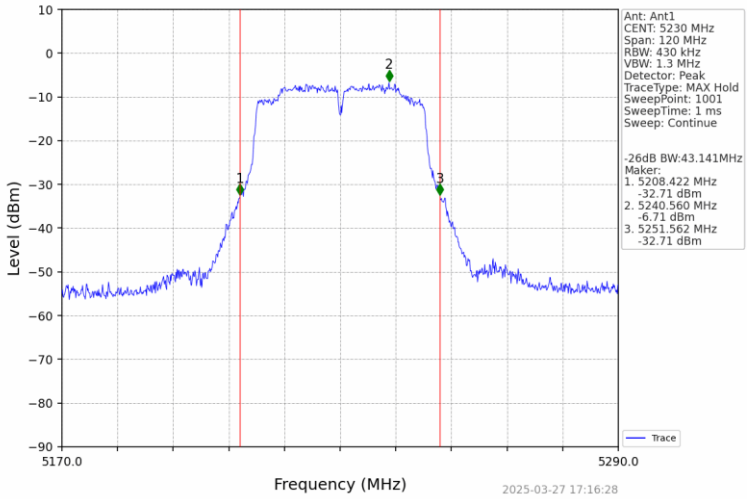
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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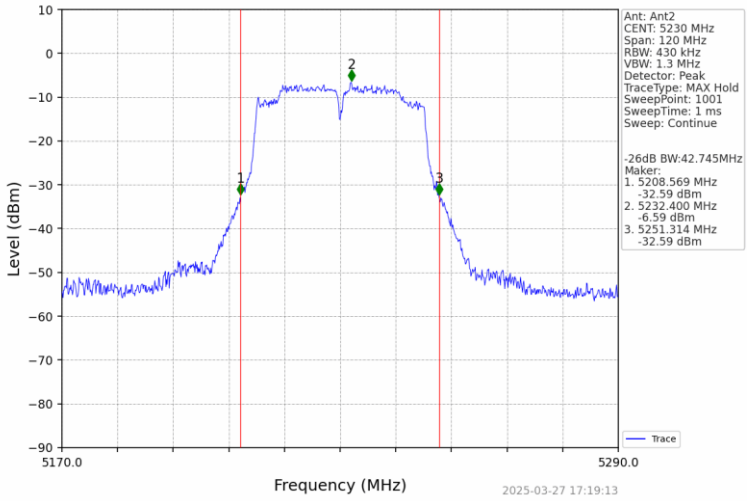
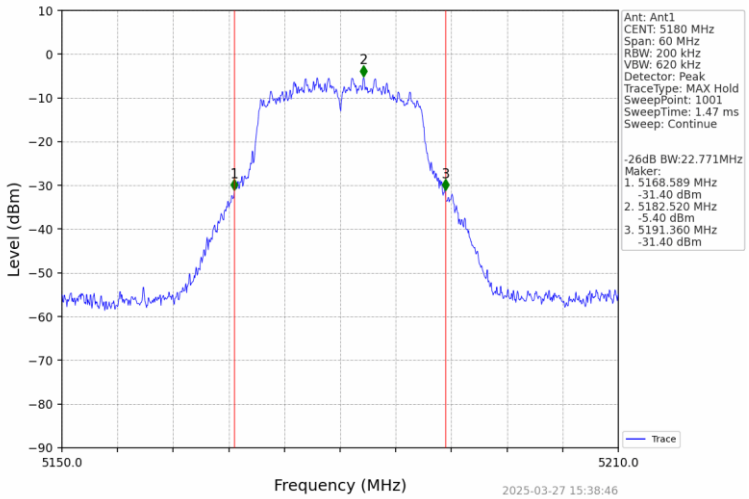


802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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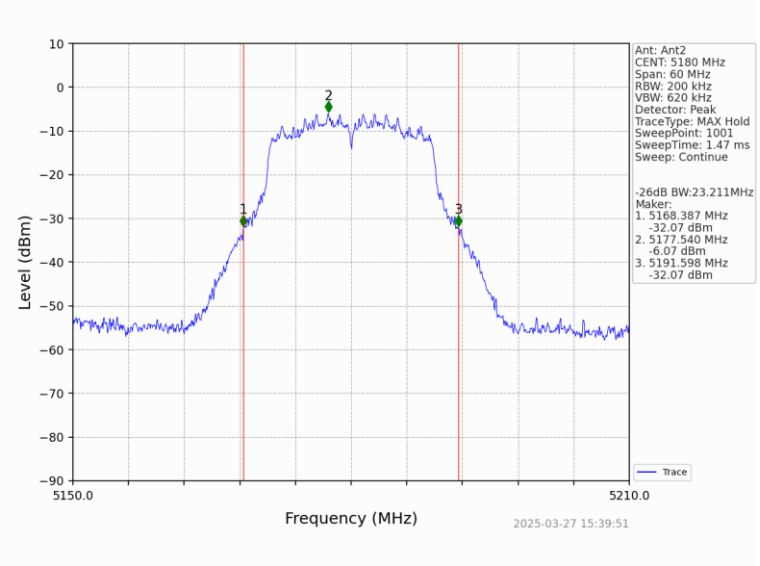
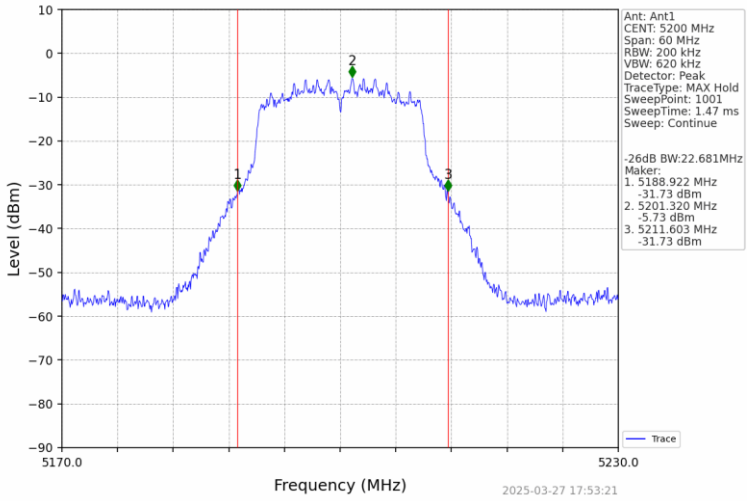


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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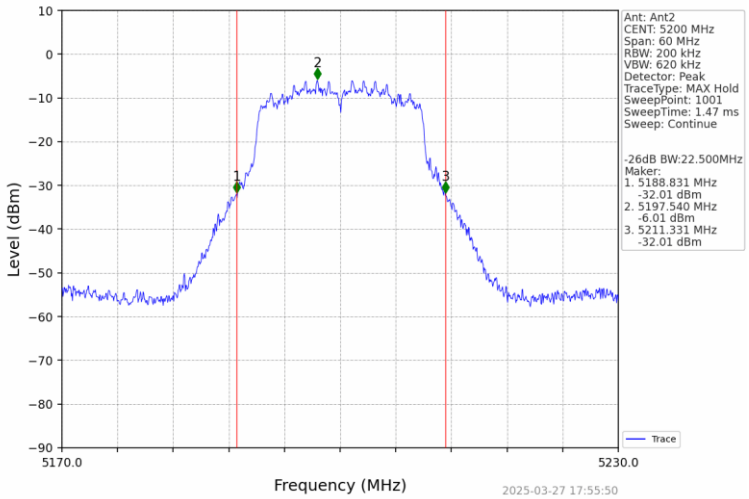
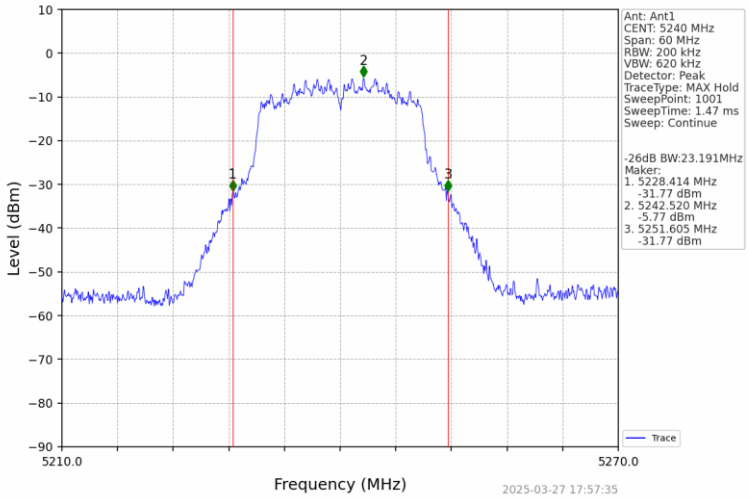


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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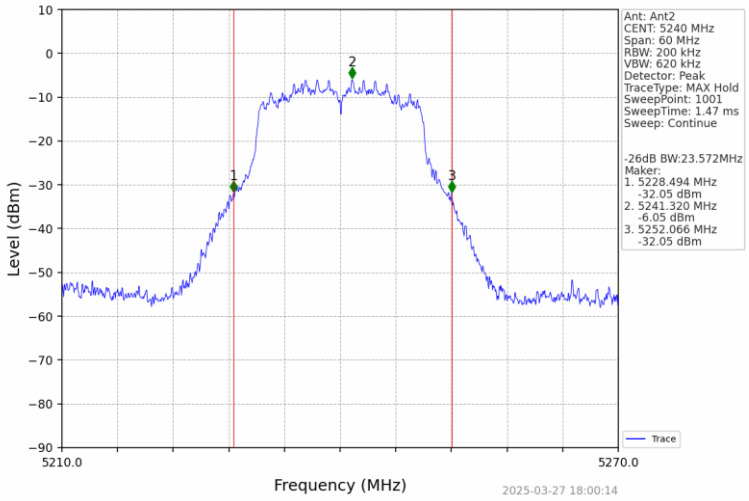
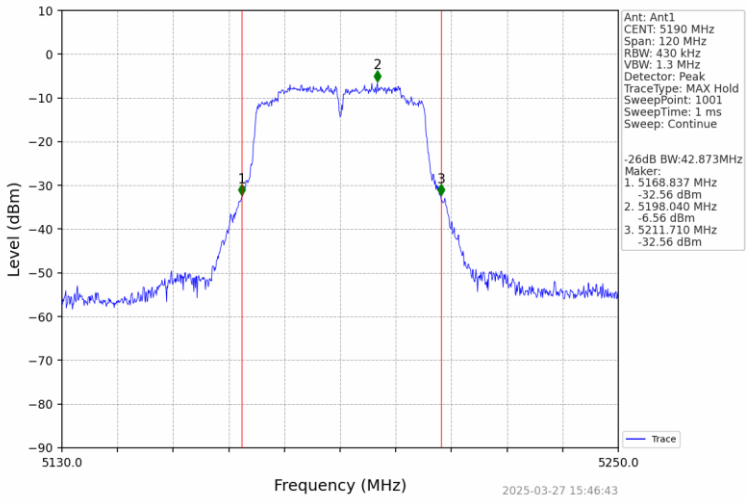
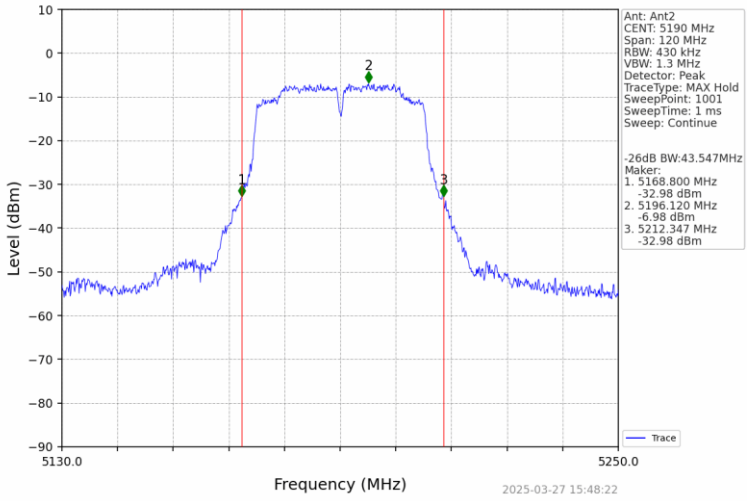


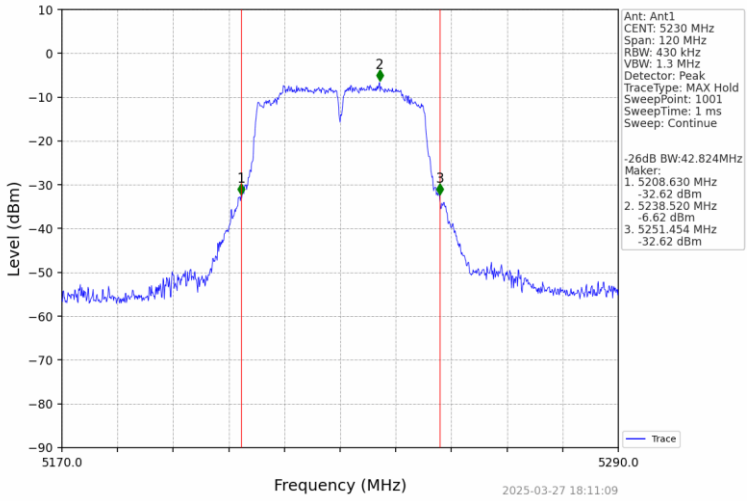
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



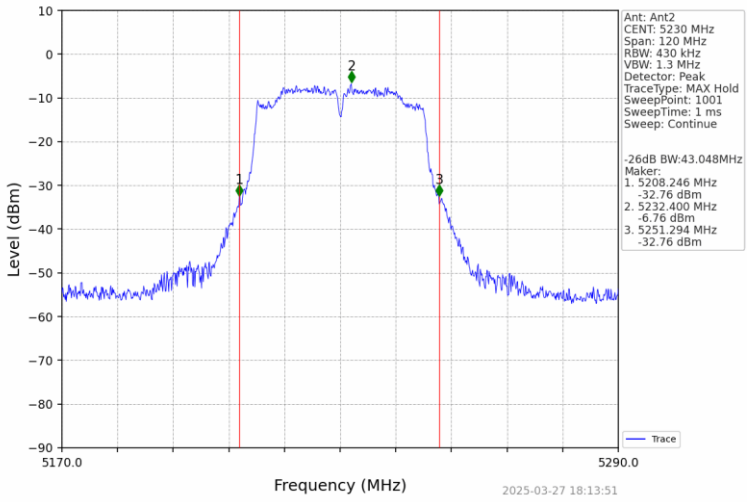
802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



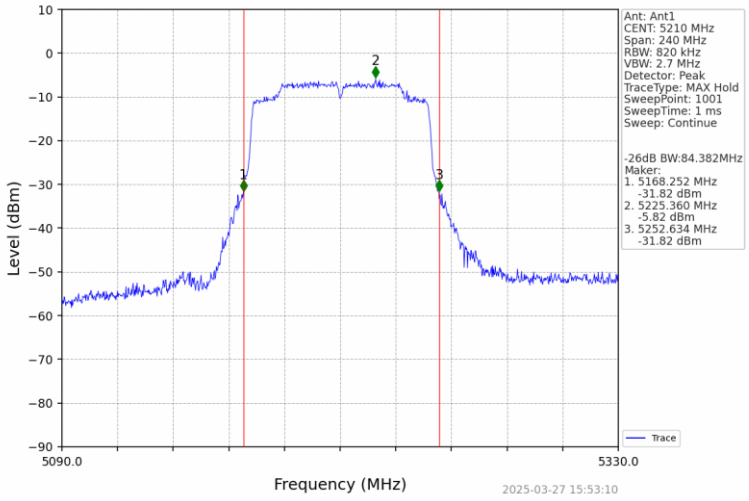
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



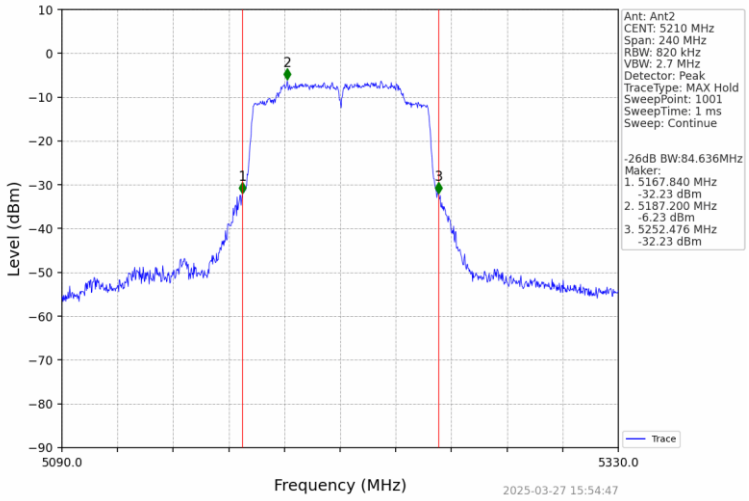
802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



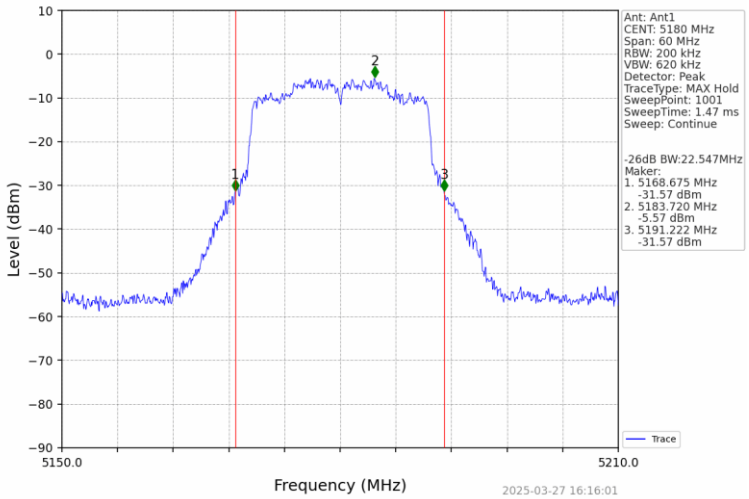
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



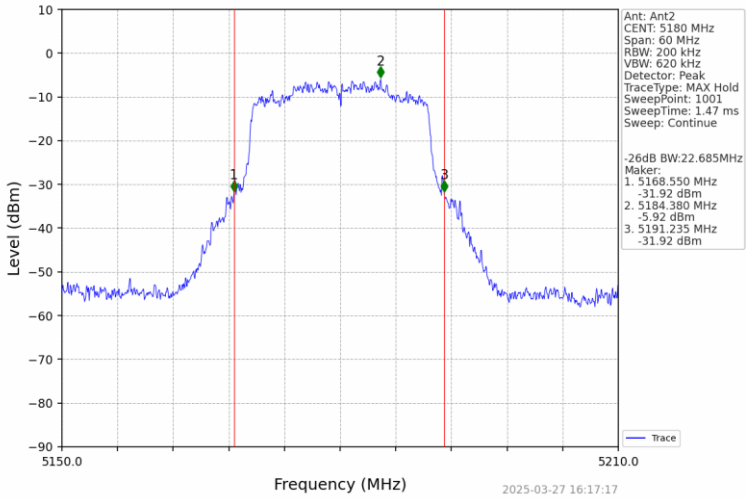
802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



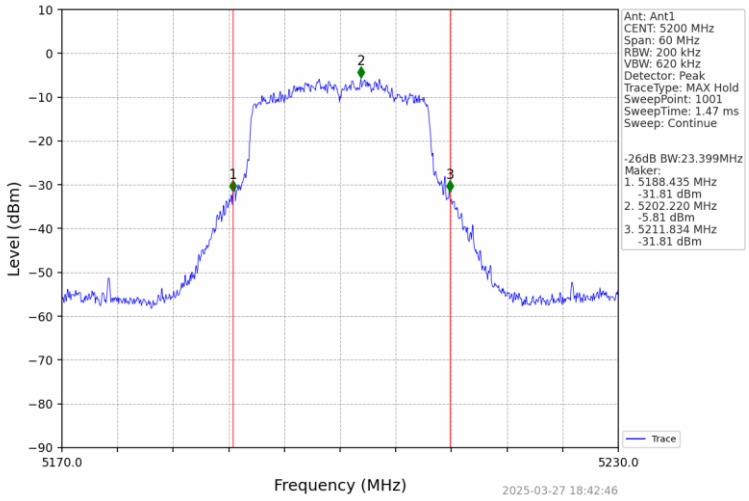
802.11ax(HEW20)_LCH_5180MHz_SU_ / _Ant1_NTNV



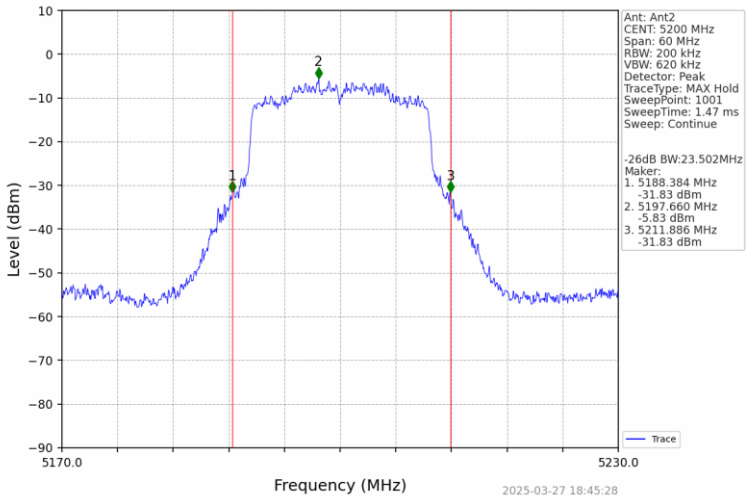
802.11ax(HEW20)_LCH_5180MHz_SU_ / _Ant2_NTNV



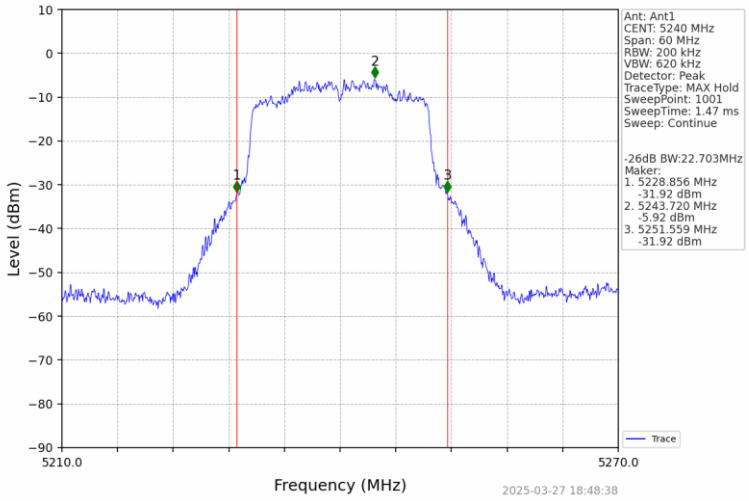
802.11ax(HEW20)_MCH_5200MHz_SU_ / _Ant1_NTNV



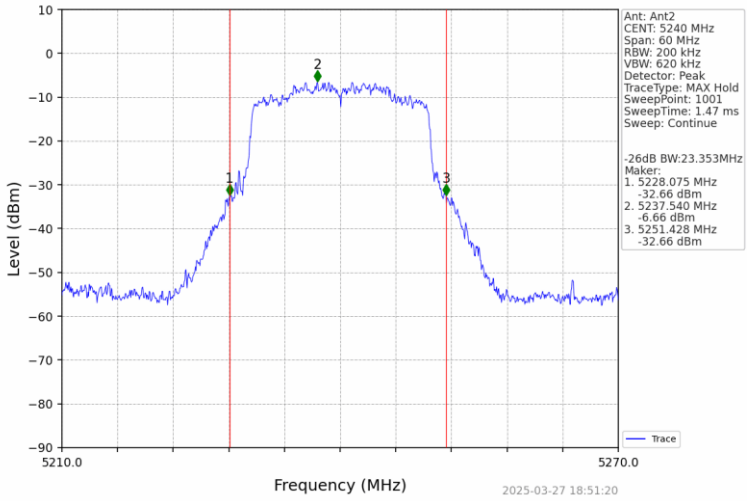
802.11ax(HEW20)_MCH_5200MHz_SU_ / _Ant2_NTNV



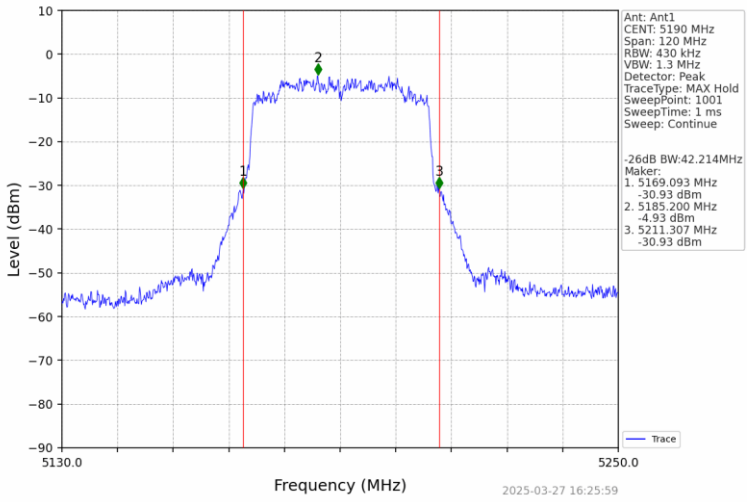
802.11ax(HEW20)_HCH_5240MHz_SU_ / _Ant1_NTNV



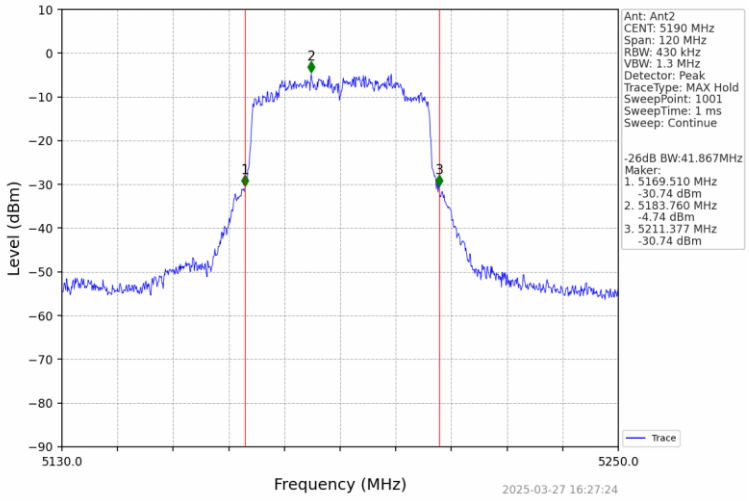
802.11ax(HEW20)_HCH_5240MHz_SU_ / _Ant2_NTNV



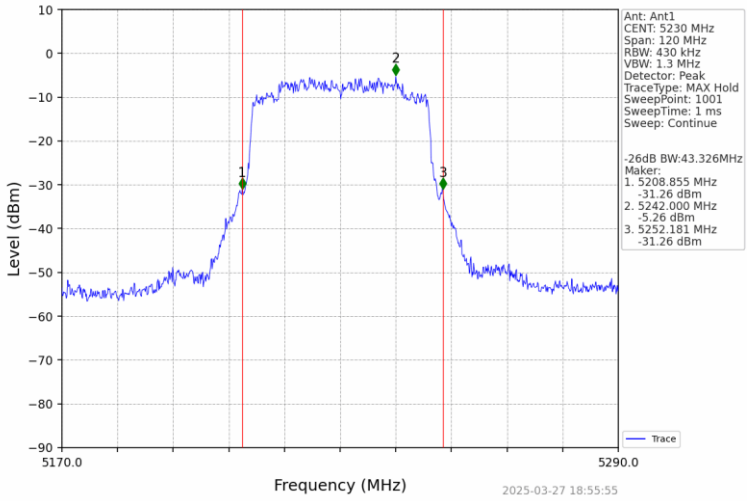
802.11ax(HEW40)_LCH_5190MHz_SU_ / _Ant1_NTNV



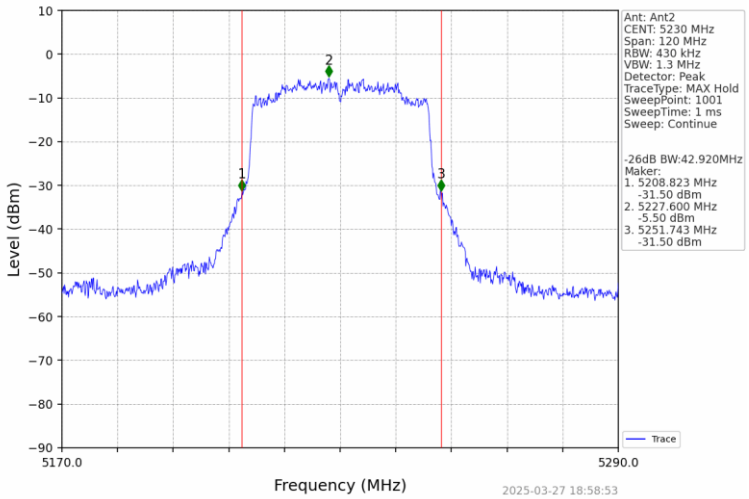
802.11ax(HEW40)_LCH_5190MHz_SU_ / _Ant2_NTNV



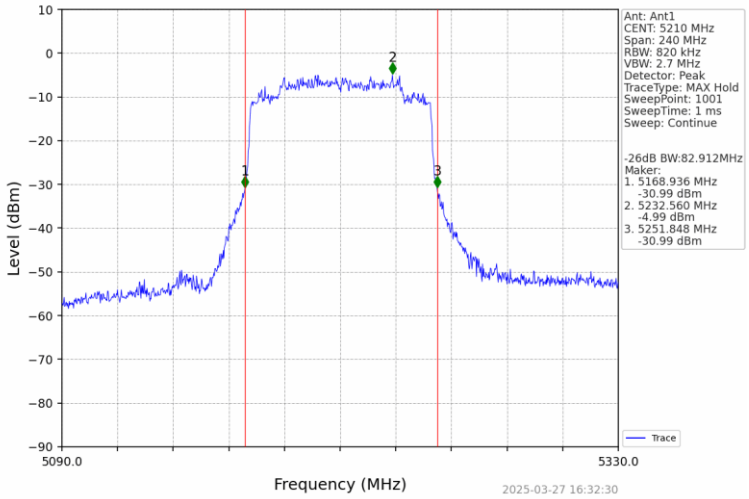
802.11ax(HEW40)_HCH_5230MHz_SU_ / _Ant1_NTNV



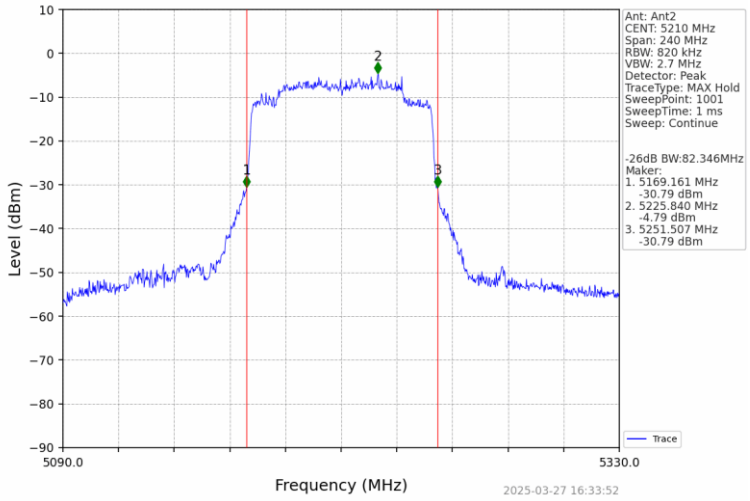
802.11ax(HEW40)_HCH_5230MHz_SU_ / _Ant2_NTNV



802.11ax(HEW80)_MCH_5210MHz_SU_ / _Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_SU_ / _Ant2_NTNV



4.6 Minimum Emission Bandwidth (6dB Bandwidth)

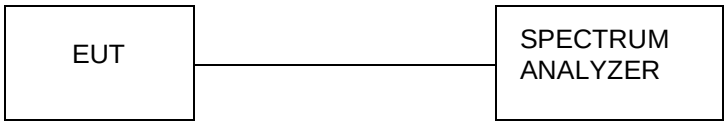
Limit

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth 3 x RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Configuration



Test Results

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.366	>=0.5	Pass
			2	16.349	>=0.5	Pass
		5785	1	16.373	>=0.5	Pass
			2	16.361	>=0.5	Pass
		5825	1	16.364	>=0.5	Pass
			2	16.365	>=0.5	Pass
802.11n (HT20)	MIMO	5745	1	17.605	>=0.5	Pass
			2	17.602	>=0.5	Pass
		5785	1	17.619	>=0.5	Pass
			2	17.596	>=0.5	Pass
		5825	1	17.595	>=0.5	Pass
			2	17.604	>=0.5	Pass
802.11n (HT40)	MIMO	5755	1	36.377	>=0.5	Pass
			2	36.351	>=0.5	Pass
		5795	1	36.355	>=0.5	Pass
			2	36.358	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	17.623	>=0.5	Pass
			2	17.592	>=0.5	Pass
		5785	1	17.621	>=0.5	Pass
			2	17.581	>=0.5	Pass
		5825	1	17.596	>=0.5	Pass
			2	17.606	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	36.361	>=0.5	Pass
			2	36.361	>=0.5	Pass
		5795	1	36.361	>=0.5	Pass
			2	36.344	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.092	>=0.5	Pass
			2	75.066	>=0.5	Pass
802.11ax (HEW20)	MIMO	5745	1	18.675	>=0.5	Pass
			2	18.489	>=0.5	Pass
		5785	1	18.755	>=0.5	Pass
			2	18.641	>=0.5	Pass
		5825	1	18.883	>=0.5	Pass
			2	18.801	>=0.5	Pass
802.11ax (HEW40)	MIMO	5755	1	37.879	>=0.5	Pass
			2	37.628	>=0.5	Pass
		5795	1	37.810	>=0.5	Pass

			2	37.700	>=0.5	Pass
802.11ax (HEW80)	MIMO	5775	1	75.112	>=0.5	Pass
			2	75.086	>=0.5	Pass