

Appendix RF Test Data for 5G WIFI

Company: : Shenzhen Speediance Living Technology co., Ltd.

EUT : Portable Multimedia Digital Fitness Equipment

FCC ID: : 2A4WP-GNA1A1

Model Number : GNA1A1

Report No. : HTT202605688F04

Reviewed By : Heber He

1. Duty Cycle

1.1 Test Result

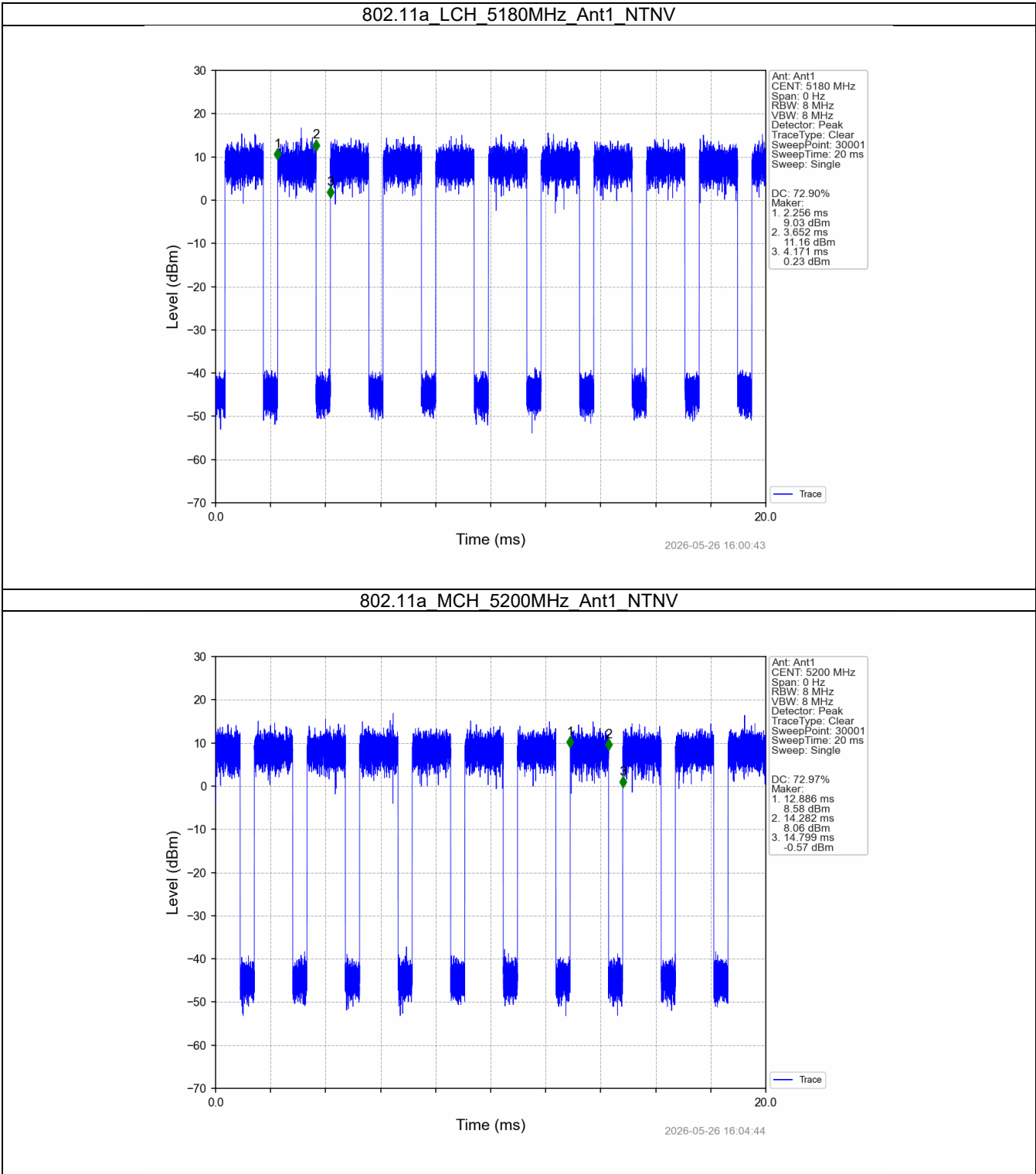
1.1.1 Ant1

Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	1.396	1.915	72.90	1.37	0.01
		5200	/	/	1.396	1.913	72.97	1.37	0.03
		5240	/	/	1.396	1.912	73.01	1.37	0.01
		5260	/	/	1.396	1.912	73.01	1.37	0.01
		5300	/	/	1.397	1.915	72.95	1.37	0.02
		5320	/	/	1.396	1.918	72.78	1.38	0.03
		5500	/	/	1.396	1.913	72.97	1.37	0.03
		5580	/	/	1.396	1.912	73.01	1.37	0.03
		5700	/	/	1.396	1.914	72.94	1.37	0.03
		5745	/	/	1.396	1.918	72.78	1.38	0.03
		5785	/	/	1.396	1.918	72.78	1.38	0.03
		5825	/	/	1.396	1.915	72.90	1.37	0.03
802.11n (HT20)	SISO	5180	/	/	5.088	5.606	90.76	0.42	0.07
		5200	/	/	5.088	5.606	90.76	0.42	0.07
		5240	/	/	5.088	5.610	90.70	0.42	0.04
		5260	/	/	5.088	5.604	90.79	0.42	0.04
		5300	/	/	5.088	5.606	90.76	0.42	0.04
		5320	/	/	5.088	5.606	90.76	0.42	0.04
		5500	/	/	5.088	5.608	90.73	0.42	0.04
		5580	/	/	5.088	5.606	90.76	0.42	0.04
		5700	/	/	5.088	5.606	90.76	0.42	0.04
		5745	/	/	5.088	5.805	87.65	0.57	3.07
		5785	/	/	5.088	5.754	88.43	0.53	2.37
		5825	/	/	5.088	5.606	90.76	0.42	0.04
802.11n (HT40)	SISO	5190	/	/	4.900	5.417	90.46	0.44	0.03
		5230	/	/	4.900	5.421	90.39	0.44	0.03
		5270	/	/	4.900	5.422	90.37	0.44	0.04
		5310	/	/	4.900	5.420	90.41	0.44	0.00
		5510	/	/	4.900	5.421	90.39	0.44	0.00
		5550	/	/	4.900	5.422	90.37	0.44	0.04
		5670	/	/	4.900	5.416	90.47	0.43	0.04
		5755	/	/	4.900	5.598	87.53	0.58	2.90
		5795	/	/	4.902	5.690	86.15	0.65	4.32
802.11ac (VHT20)	SISO	5180	/	/	5.096	5.614	90.77	0.42	0.07
		5200	/	/	5.097	5.615	90.77	0.42	0.07
		5240	/	/	5.096	5.614	90.77	0.42	0.04
		5260	/	/	5.096	5.614	90.77	0.42	0.07
		5300	/	/	5.096	5.616	90.74	0.42	0.04
		5320	/	/	5.096	5.614	90.77	0.42	0.07
		5500	/	/	5.096	5.616	90.74	0.42	0.04
		5580	/	/	5.096	5.614	90.77	0.42	0.04
		5700	/	/	5.096	5.614	90.77	0.42	0.04
		5745	/	/	5.097	5.722	89.08	0.50	1.66
		5785	/	/	5.096	5.619	90.69	0.42	0.03
		5825	/	/	5.096	5.618	90.71	0.42	0.04
802.11ac (VHT40)	SISO	5190	/	/	4.904	5.426	90.38	0.44	0.04
		5230	/	/	4.904	5.426	90.38	0.44	0.04
		5270	/	/	4.904	5.424	90.41	0.44	0.03
		5310	/	/	4.904	5.426	90.38	0.44	0.04

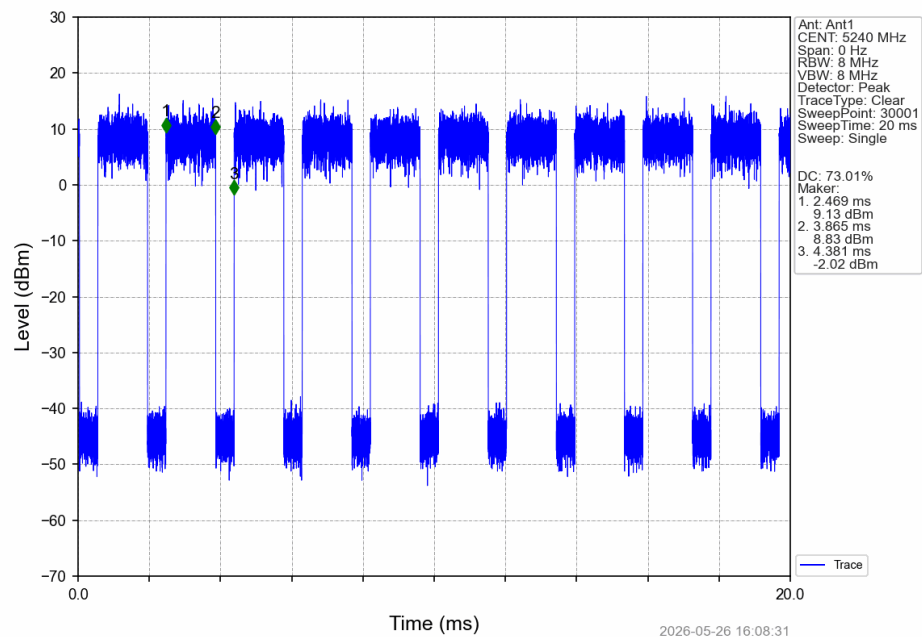
		5510	/	/	100.000	100.000	100.00	0.00	0.00
		5550	/	/	4.904	5.425	90.40	0.44	0.03
		5670	/	/	4.904	5.419	90.50	0.43	0.03
		5755	/	/	4.904	5.426	90.38	0.44	0.04
		5795	/	/	4.904	5.428	90.35	0.44	0.17
802.11ax (HEW20)	SISO	5180	SU	/	3.877	4.394	88.23	0.54	0.04
		5200	SU	/	3.877	4.393	88.25	0.54	0.04
		5240	SU	/	3.876	4.393	88.23	0.54	0.04
		5260	SU	/	3.877	4.393	88.25	0.54	0.00
		5300	SU	/	3.877	4.393	88.25	0.54	0.00
		5320	SU	/	3.877	4.394	88.23	0.54	0.04
		5500	SU	/	3.876	4.393	88.23	0.54	0.00
		5580	SU	/	3.876	4.393	88.23	0.54	0.00
		5700	SU	/	3.877	4.395	88.21	0.54	0.07
		5745	SU	/	3.877	4.557	85.08	0.70	3.07
		5785	SU	/	3.876	4.393	88.23	0.54	0.04
		5825	SU	/	3.876	4.393	88.23	0.54	0.00
802.11ax (HEW40)	SISO	5190	SU	/	3.872	4.393	88.14	0.55	0.04
		5230	SU	/	3.873	4.395	88.12	0.55	0.03
		5270	SU	/	3.873	4.394	88.14	0.55	0.03
		5310	SU	/	3.874	4.395	88.15	0.55	0.03
		5510	SU	/	3.873	4.394	88.14	0.55	0.03
		5550	SU	/	3.873	4.395	88.12	0.55	0.03
		5670	SU	/	3.874	4.390	88.25	0.54	0.03
		5755	SU	/	3.873	4.570	84.75	0.72	3.50
		5795	SU	/	3.874	4.395	88.15	0.55	0.03

1.2 Test Graph

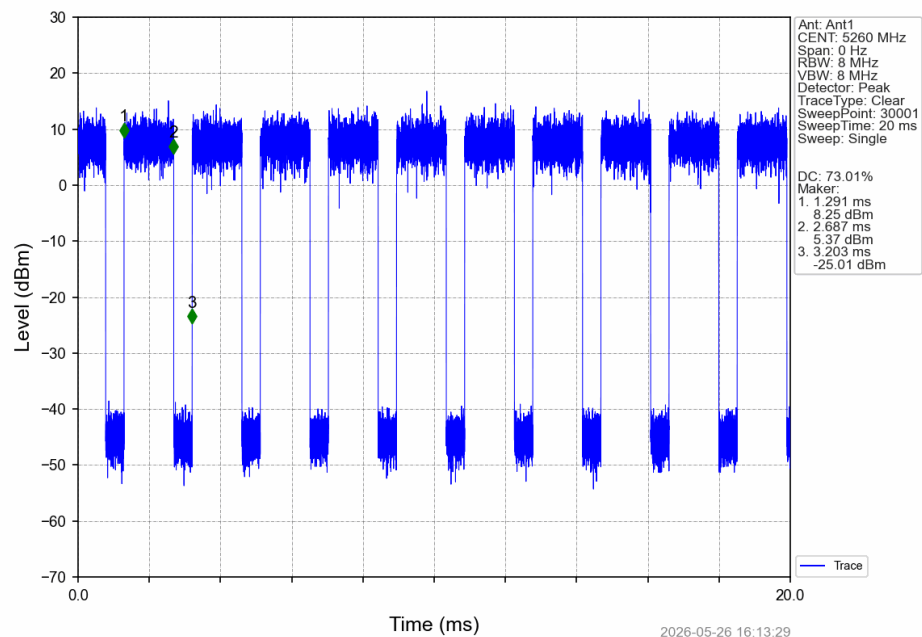
1.2.1 Ant1



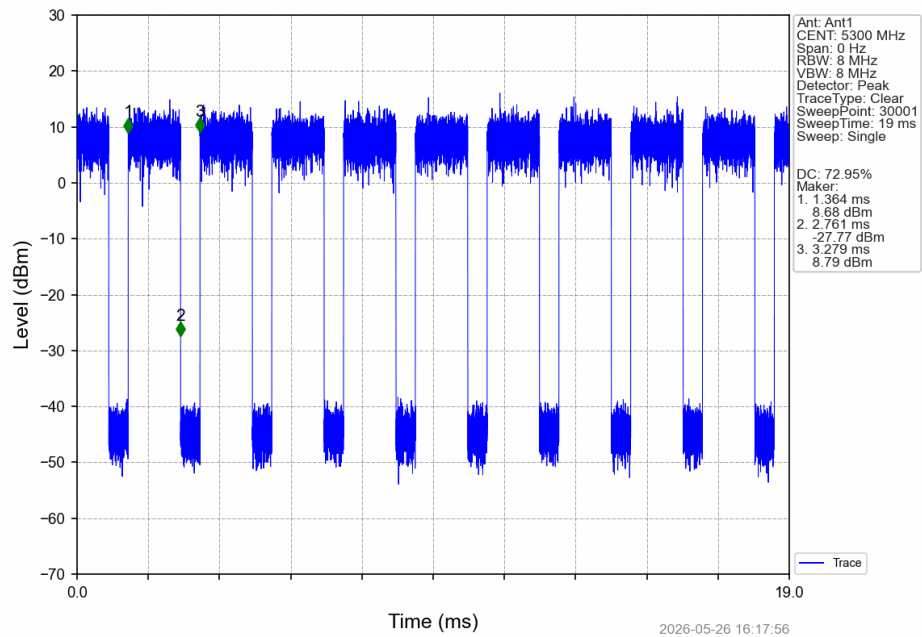
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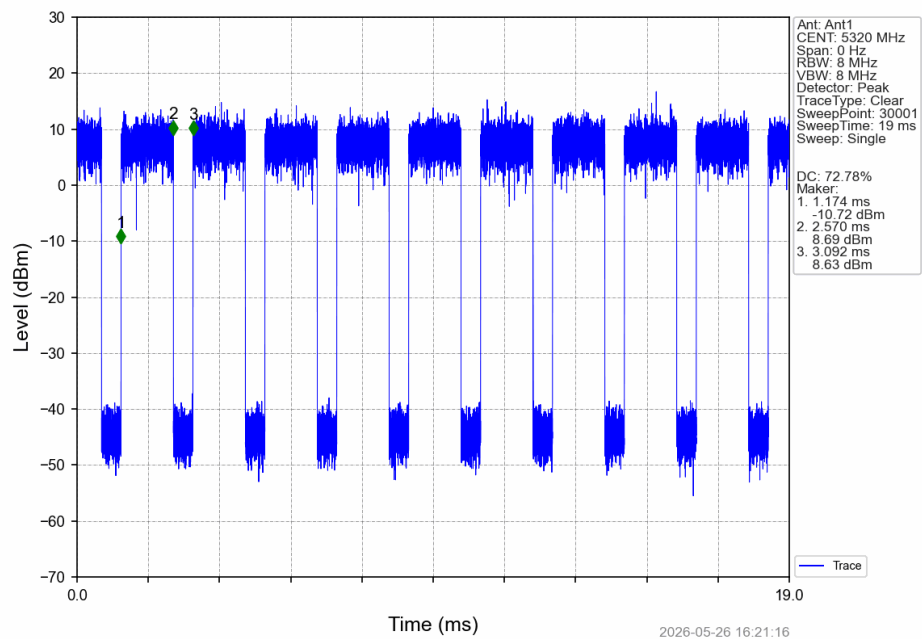
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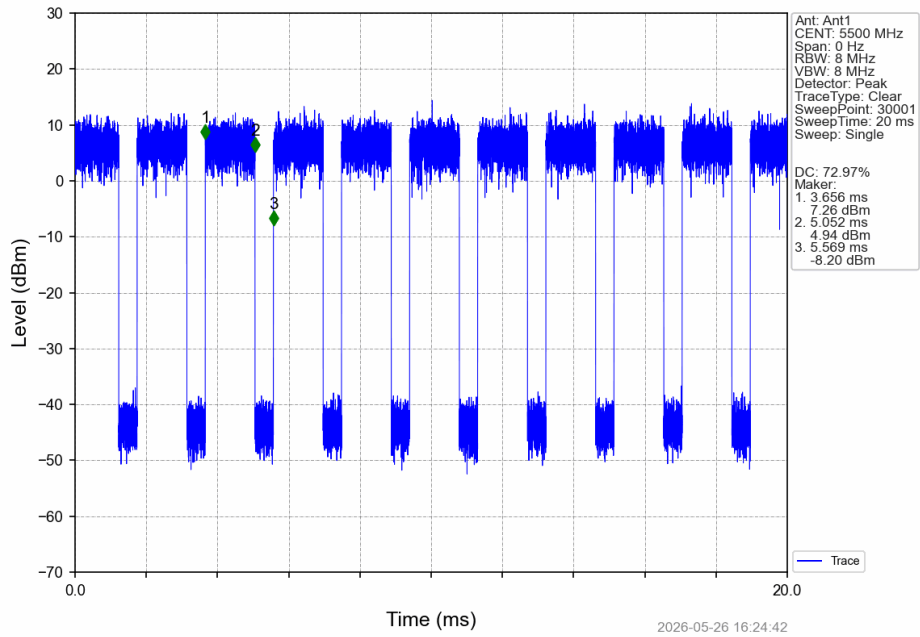
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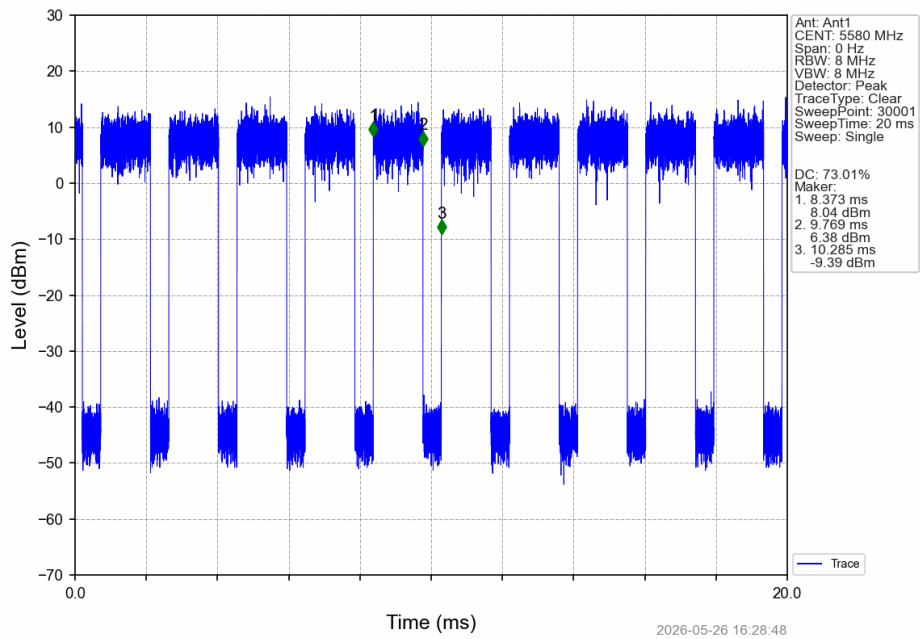
802.11a_HCH_5320MHz_Ant1_NTNV



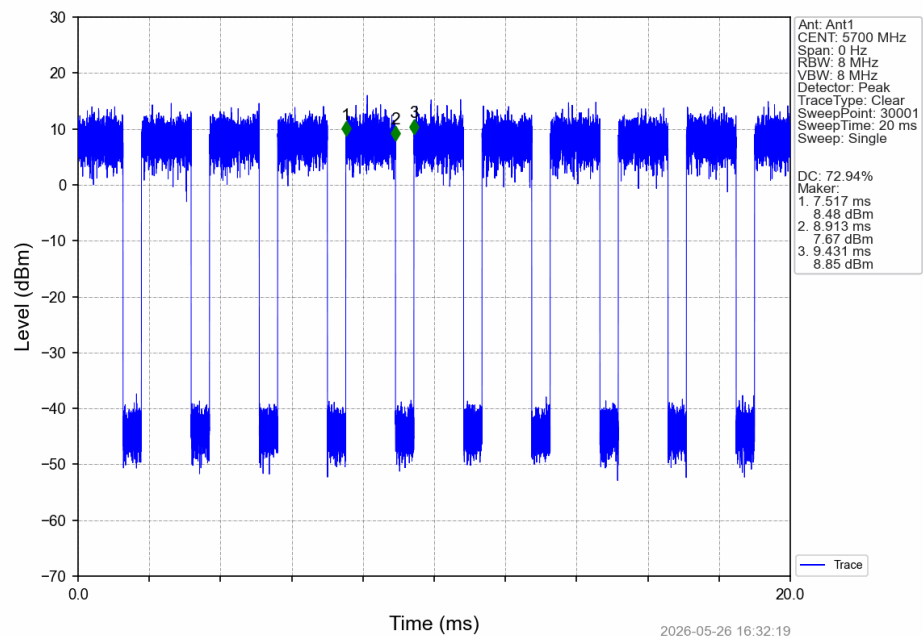
802.11a LCH 5500MHz Ant1 NTN



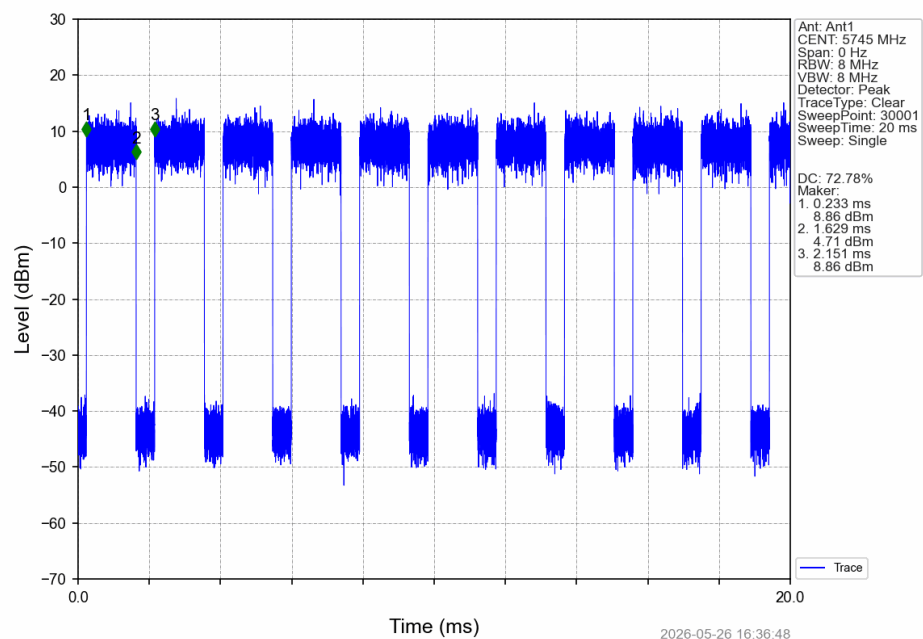
802.11a_MCH 5580MHz_Ant1 NTN



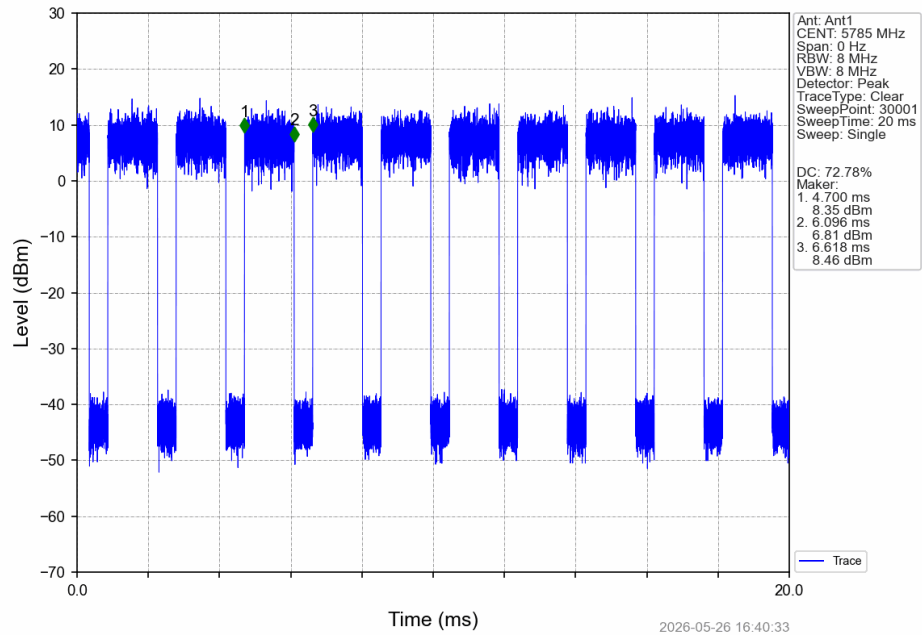
802.11a_HCH_5700MHz_Ant1_NTNV



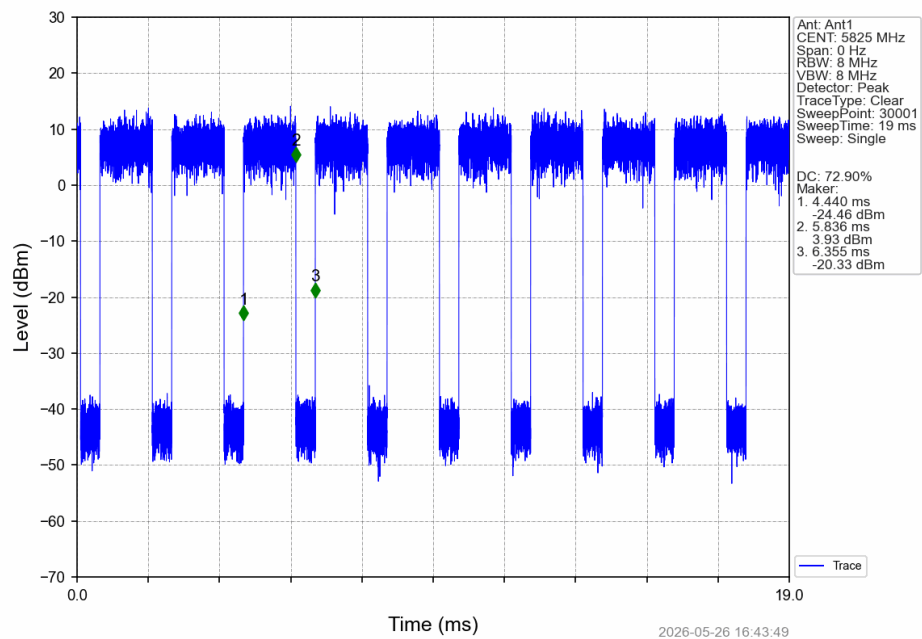
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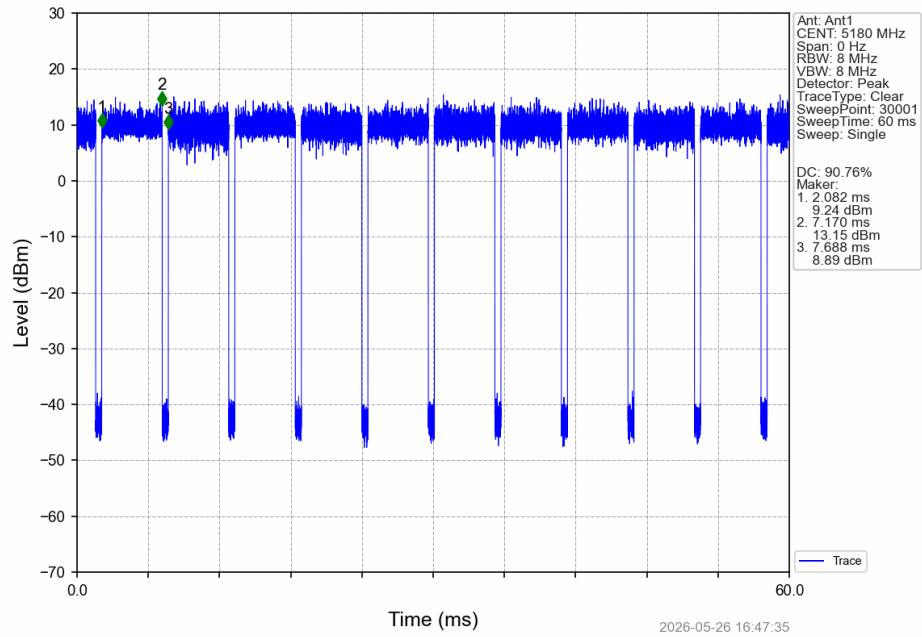
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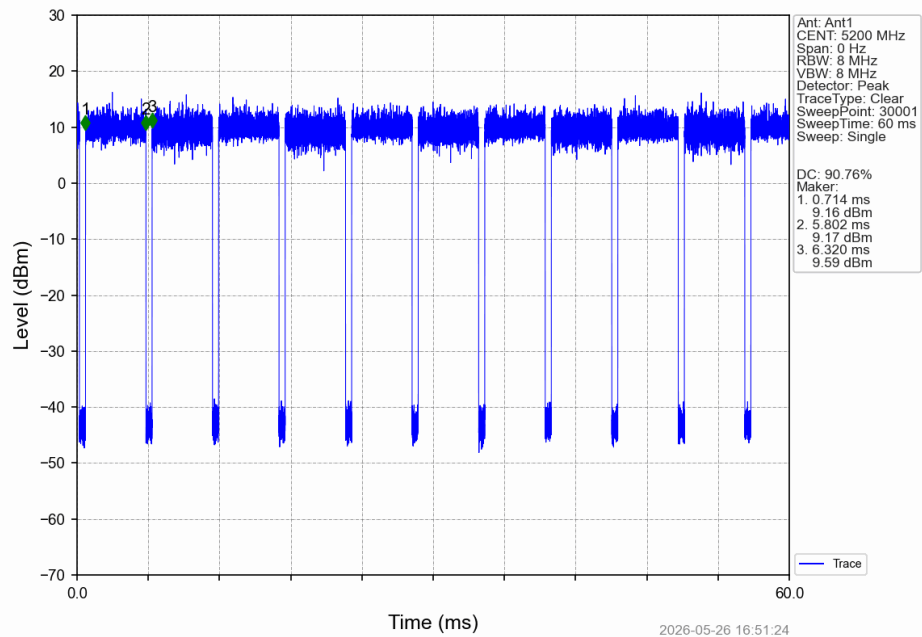
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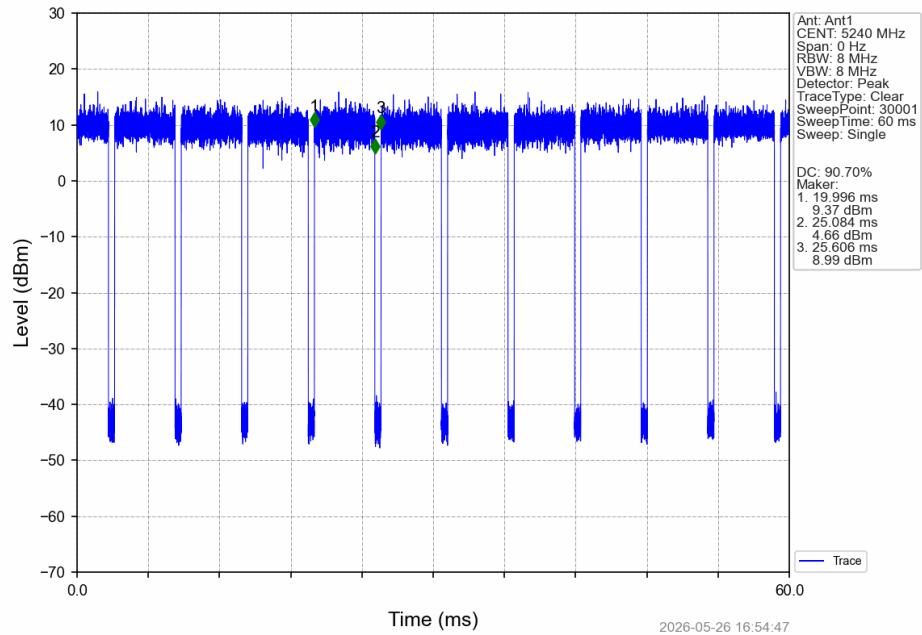
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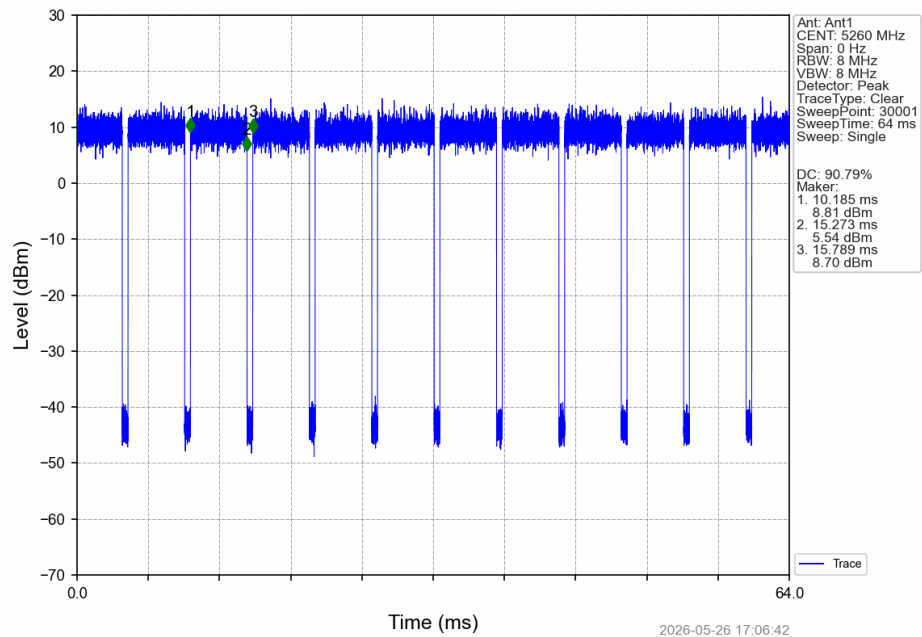
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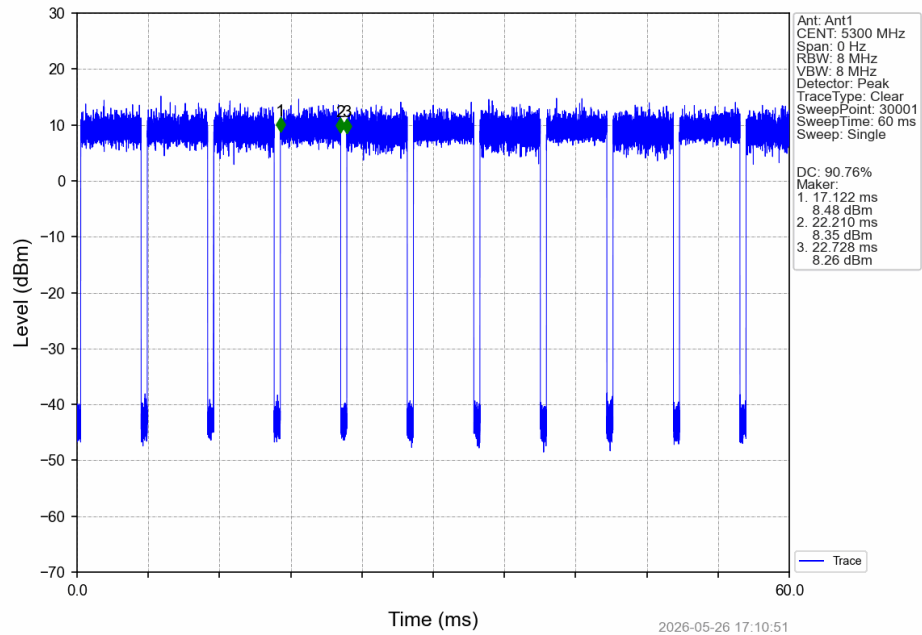
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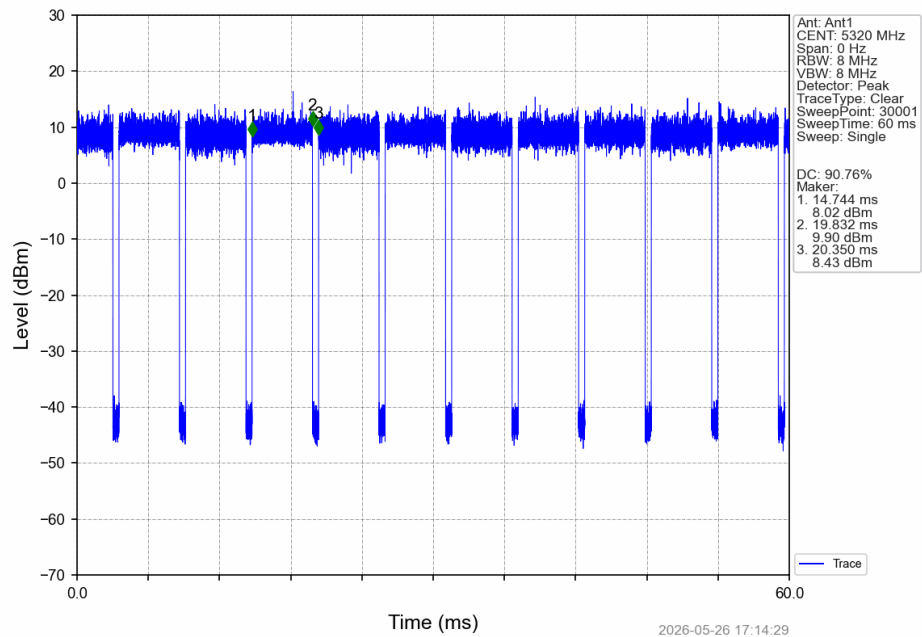
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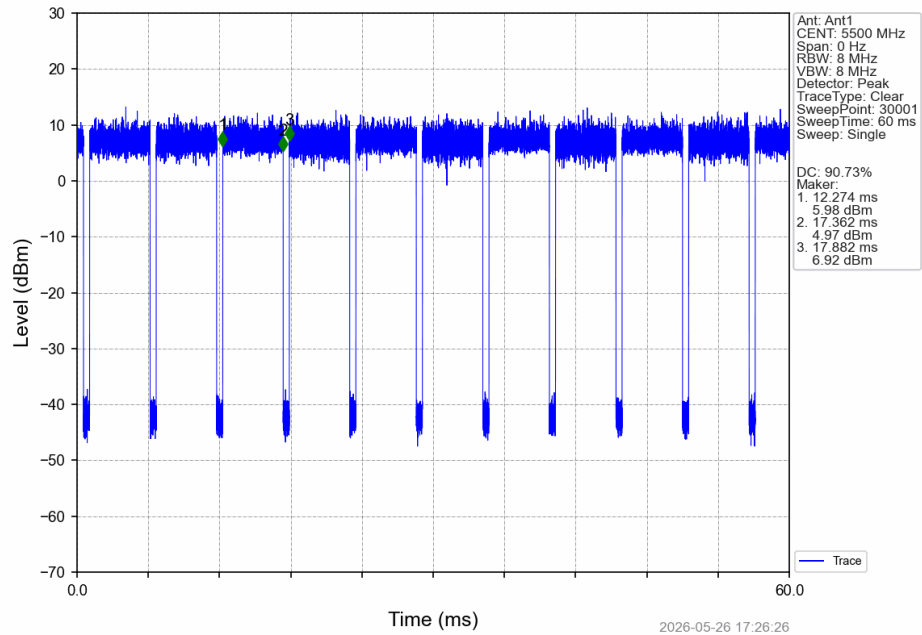
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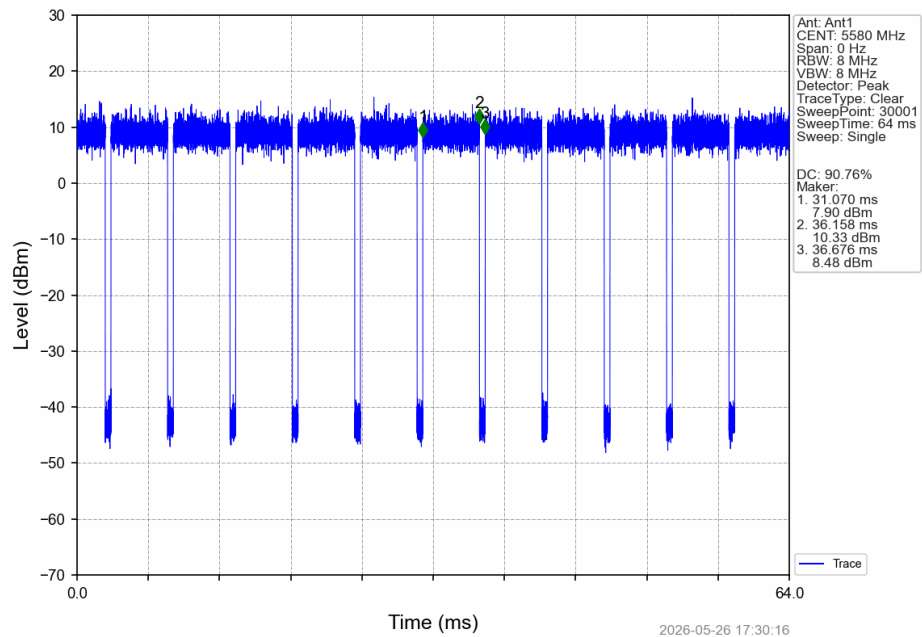
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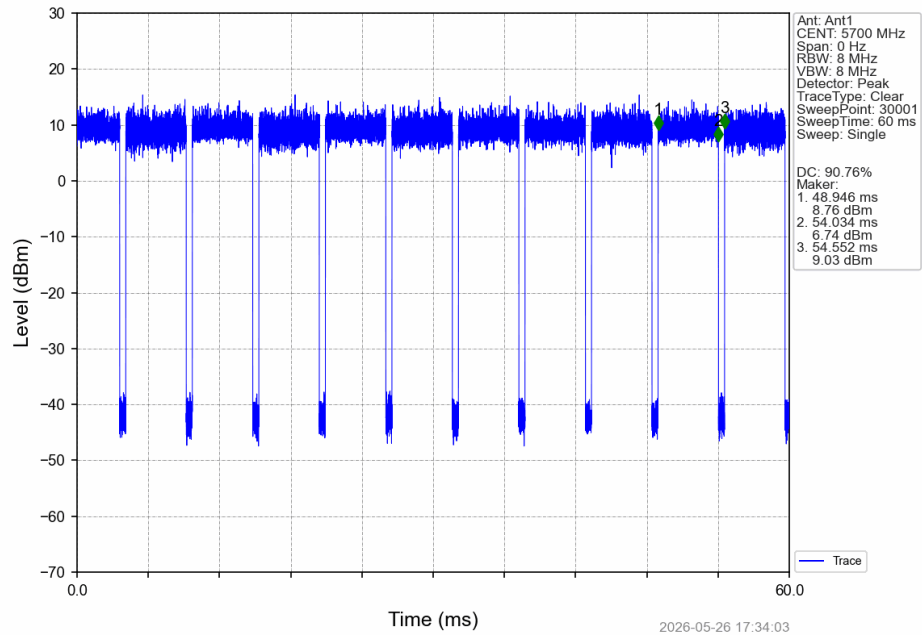
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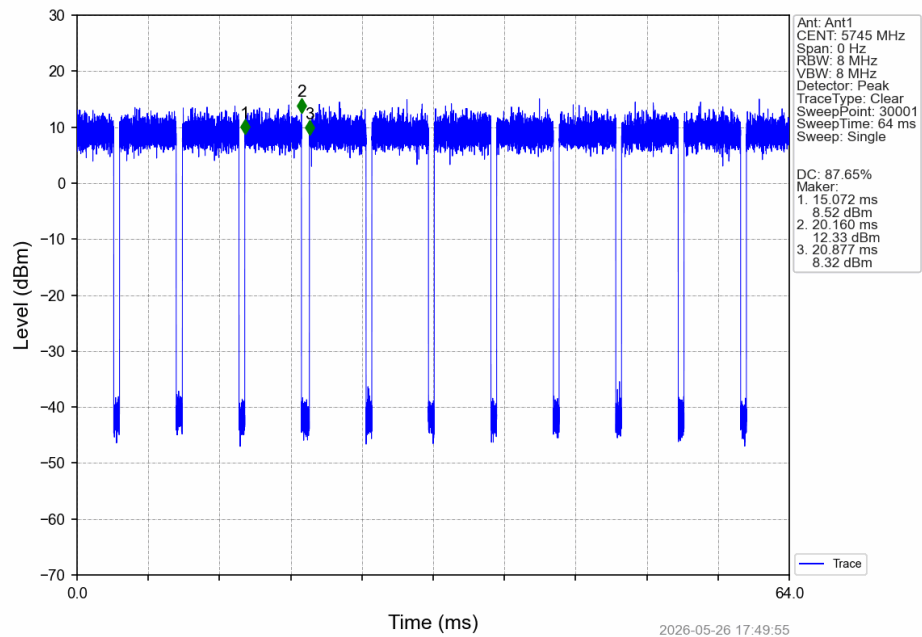
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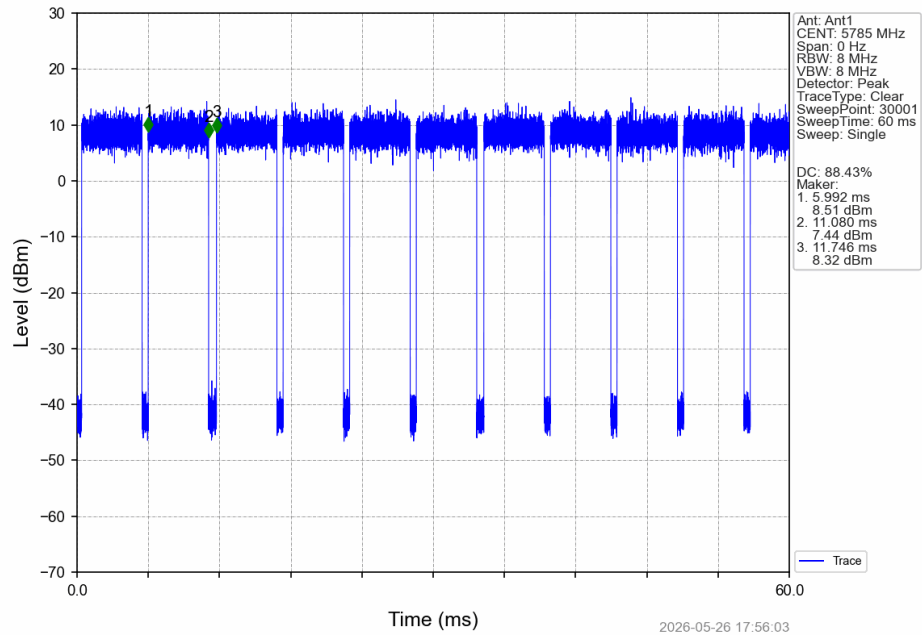
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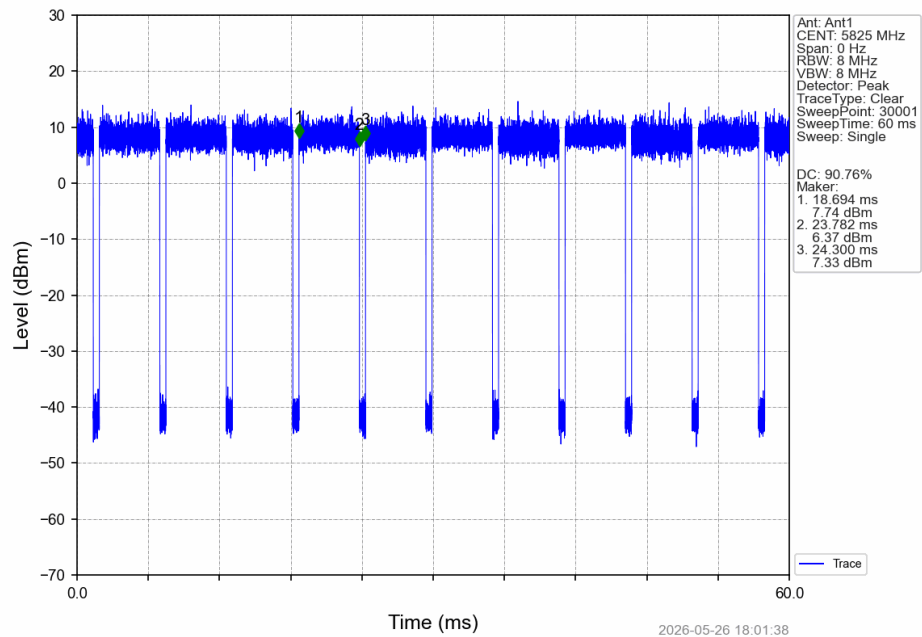
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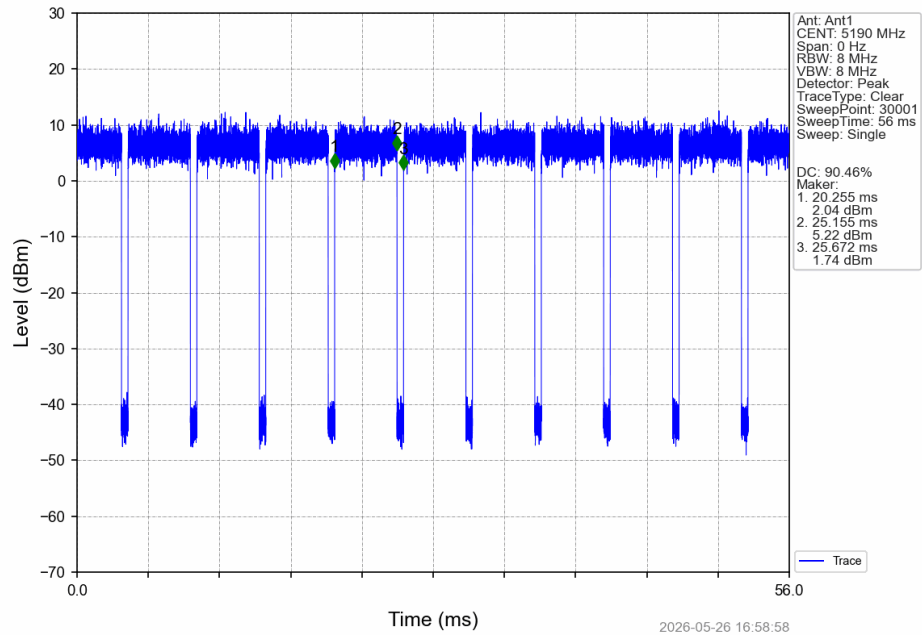
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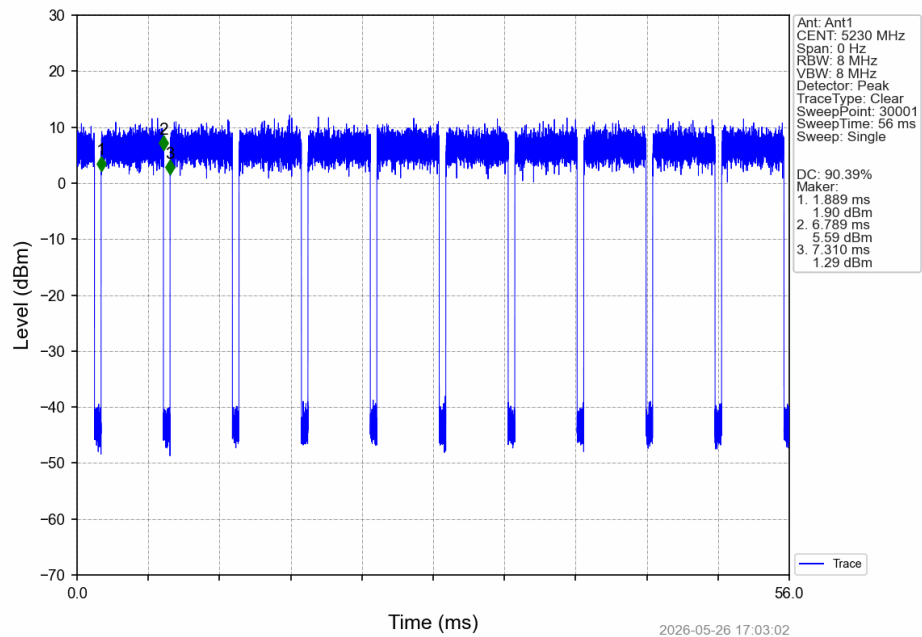
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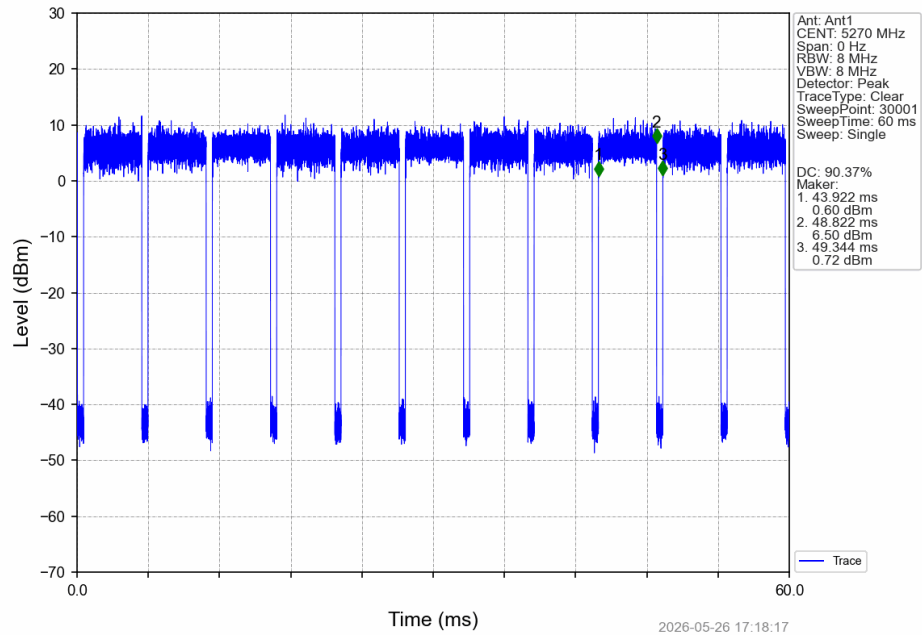
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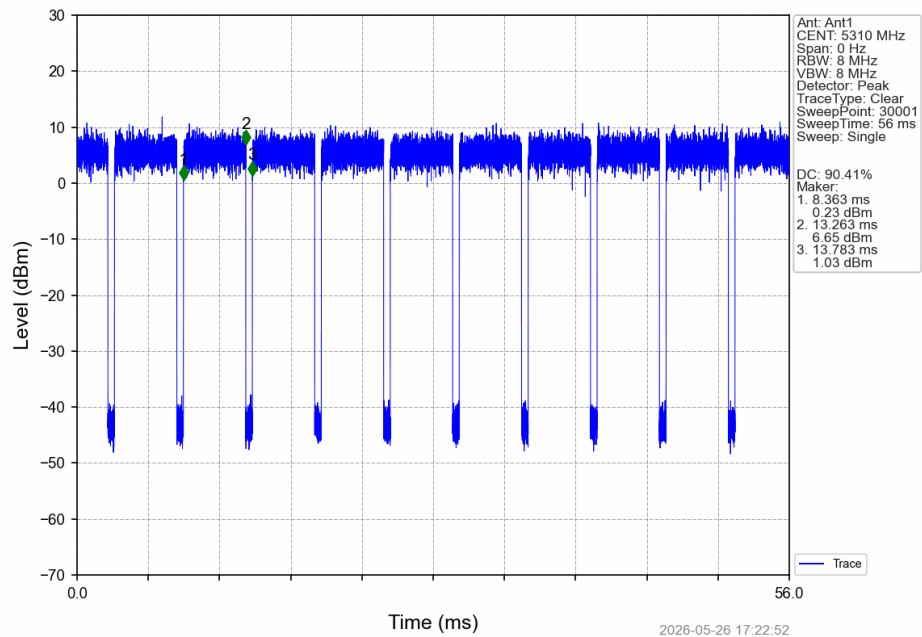
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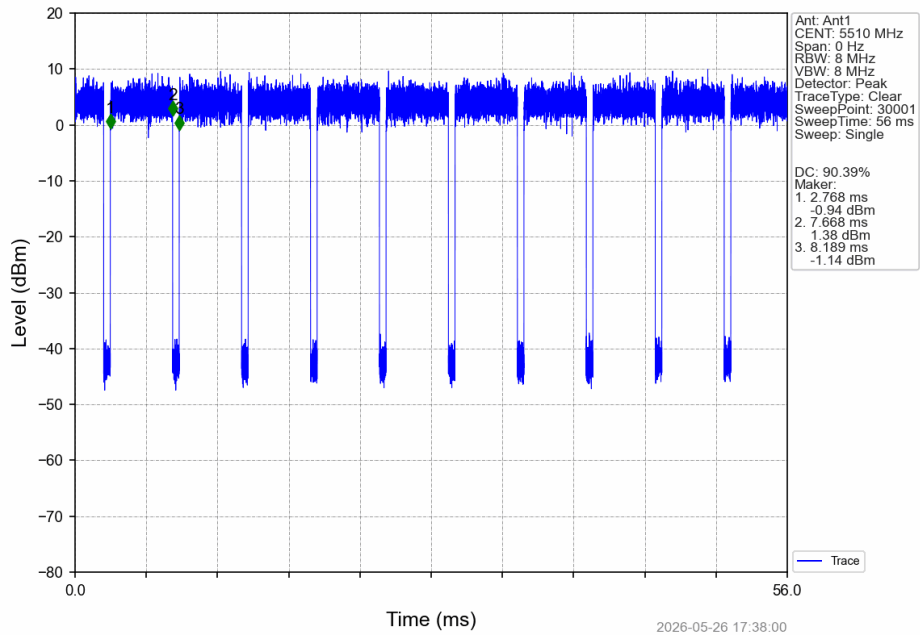
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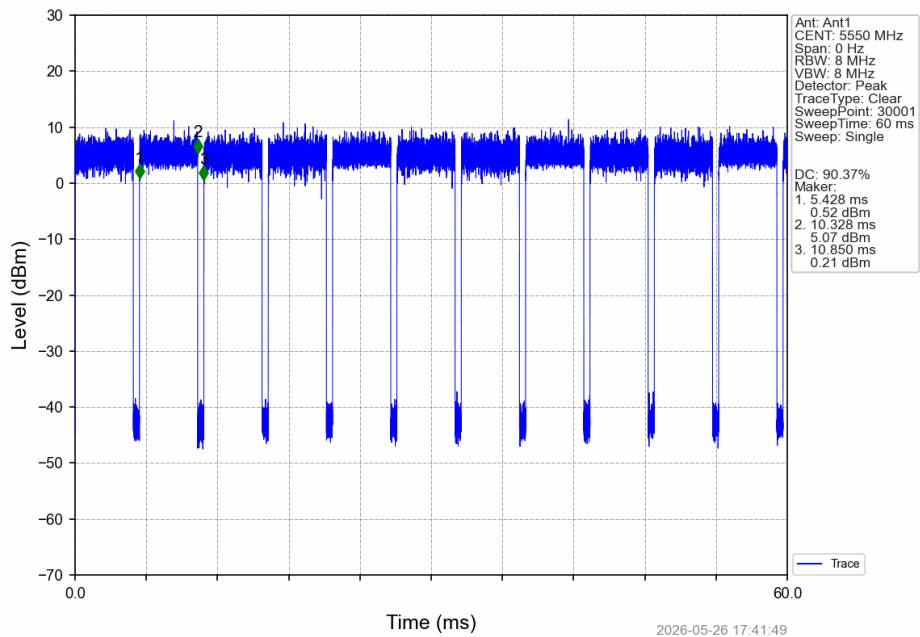
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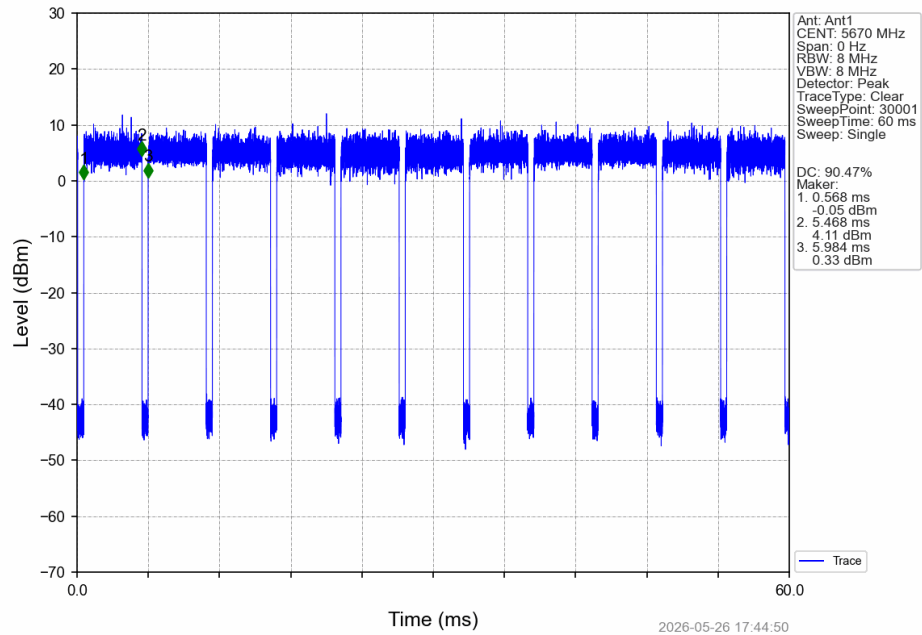
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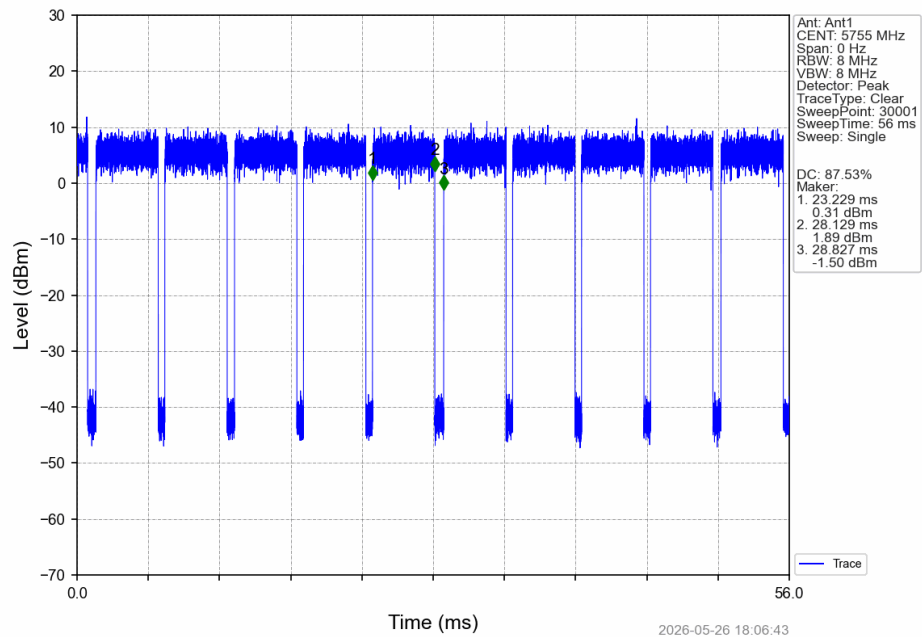
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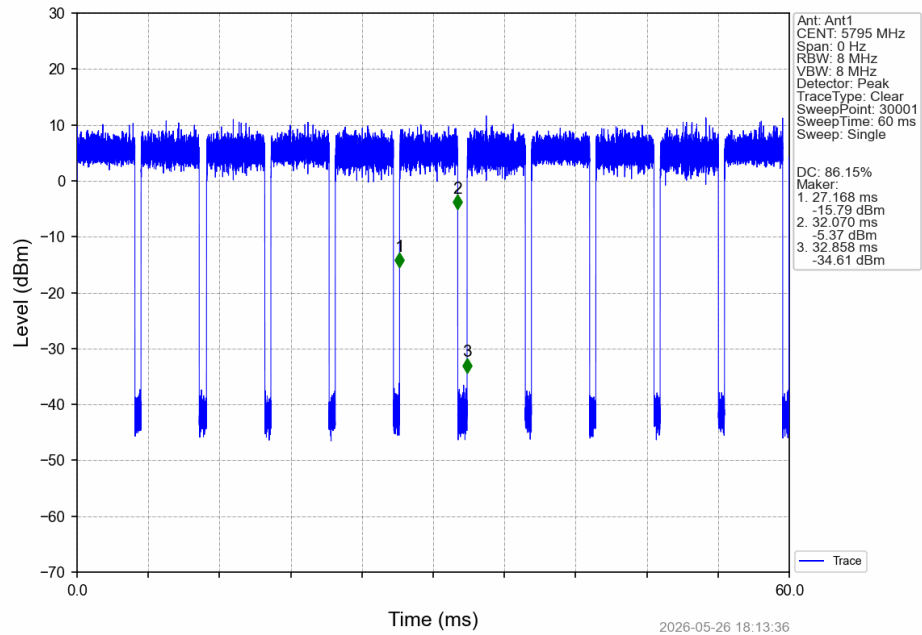
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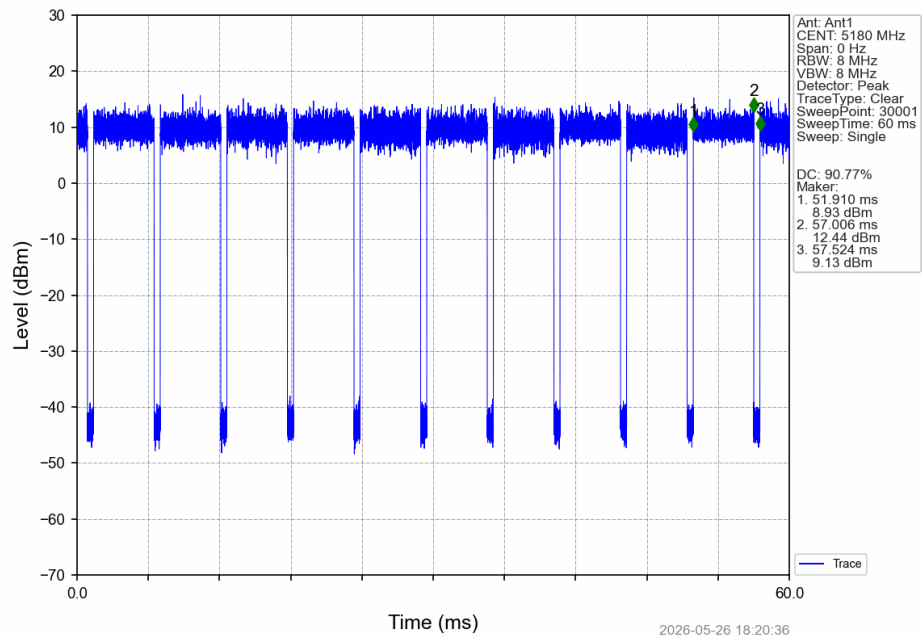
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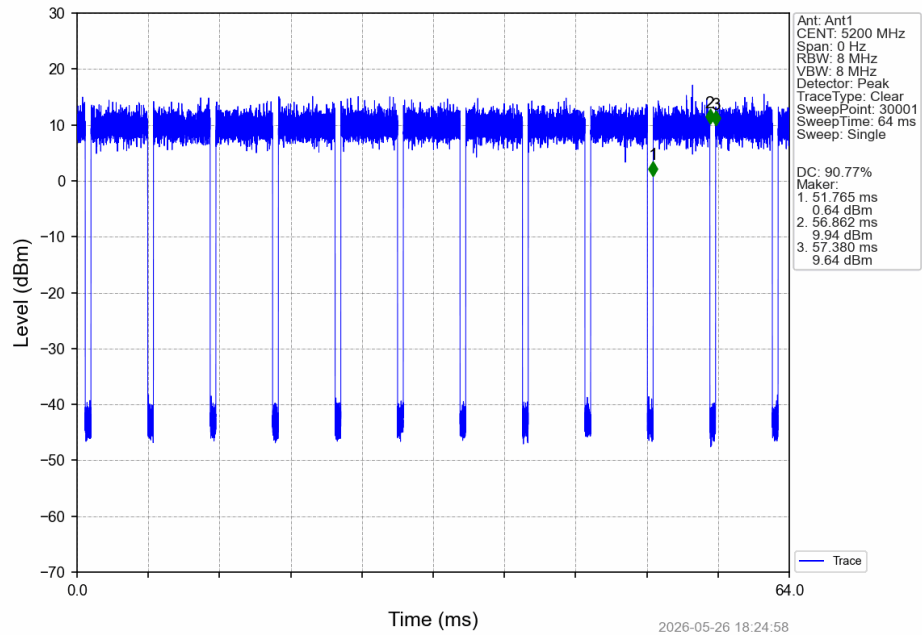
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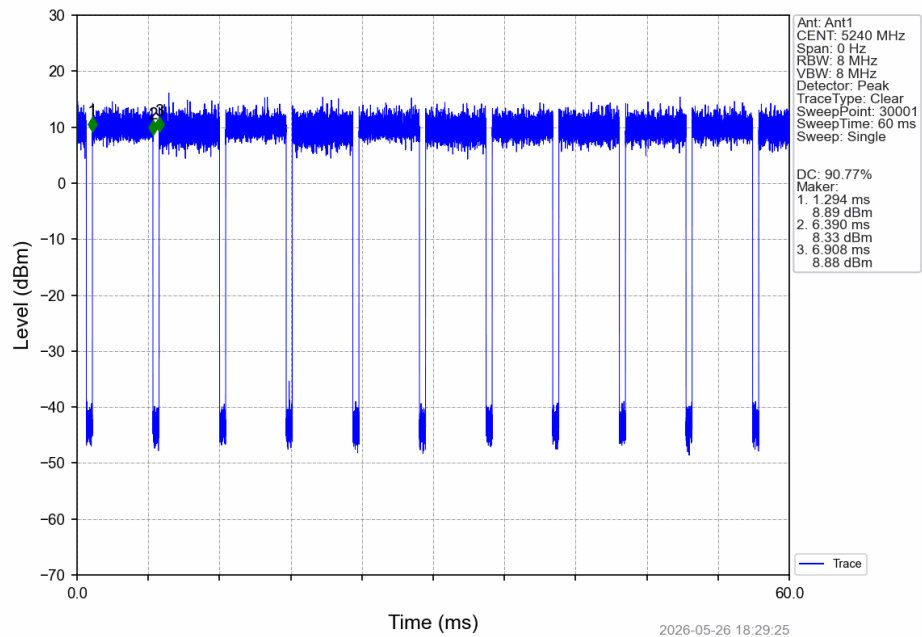
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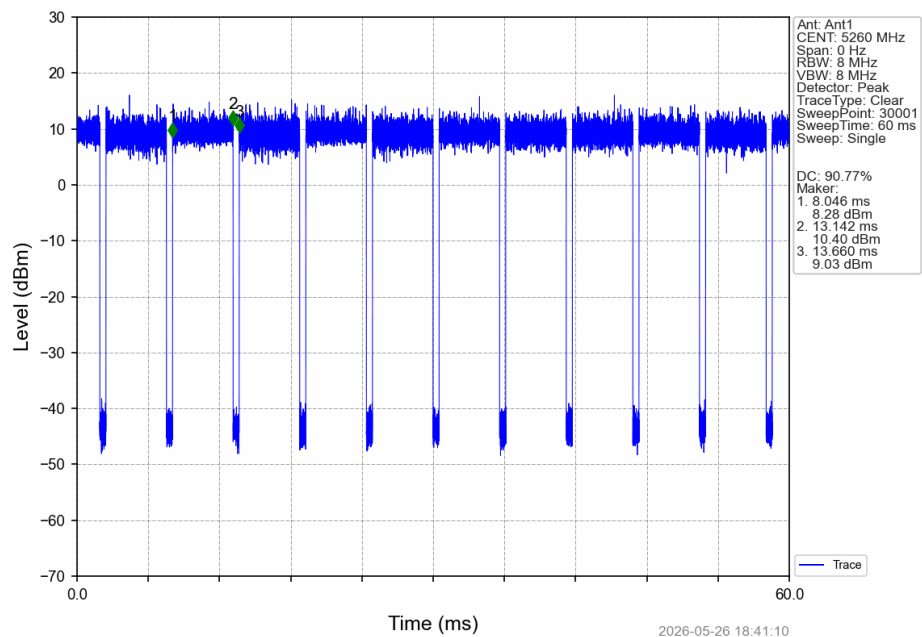
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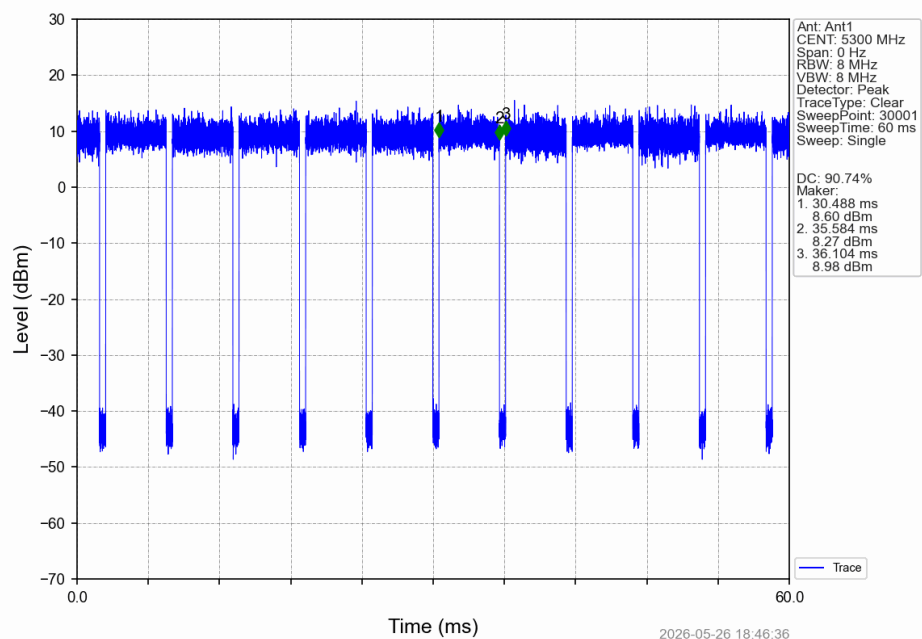
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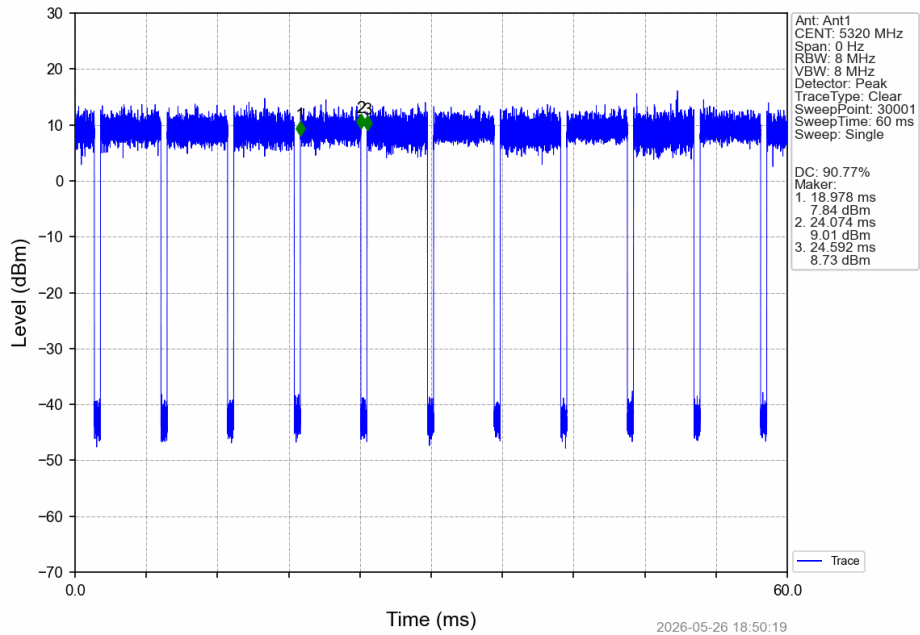
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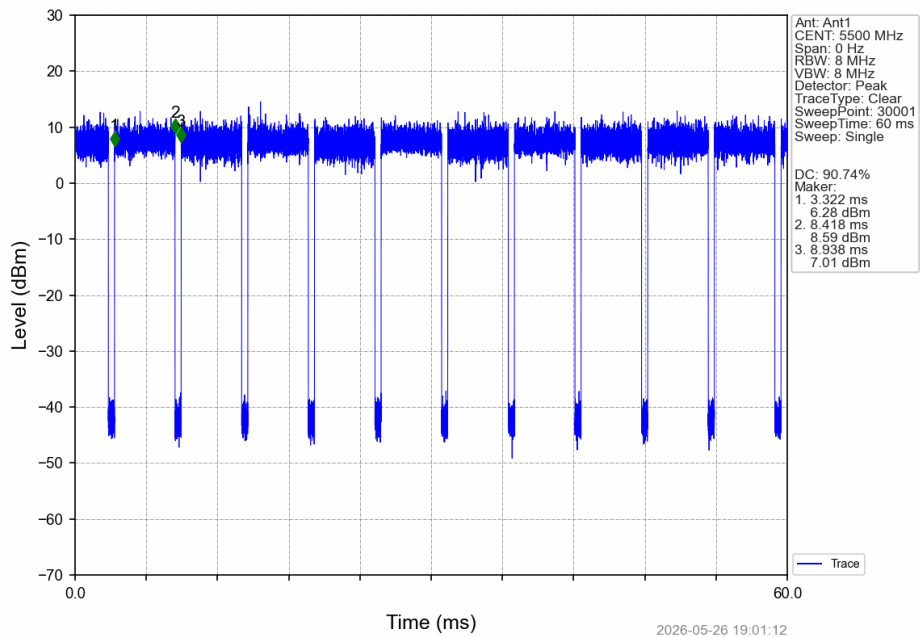
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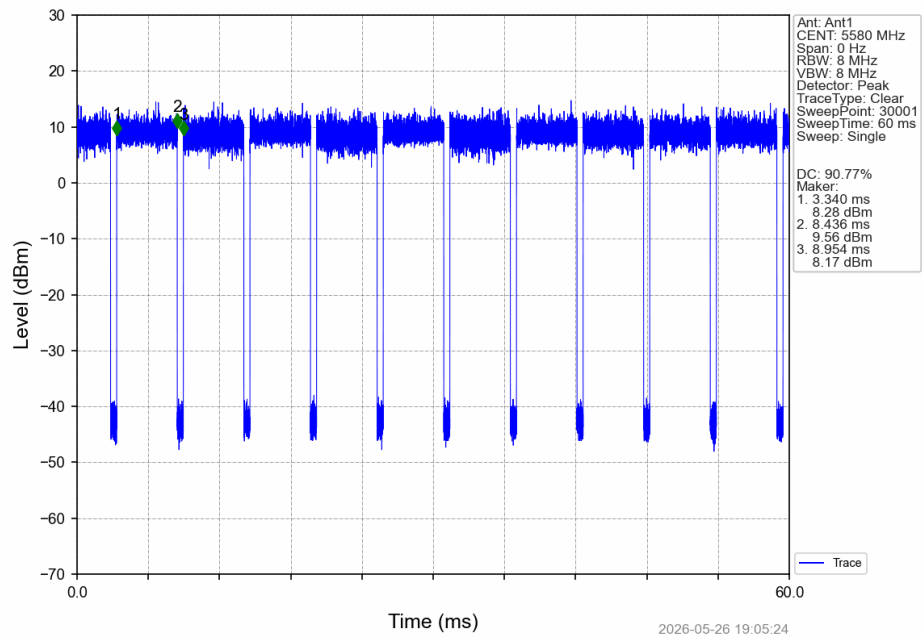
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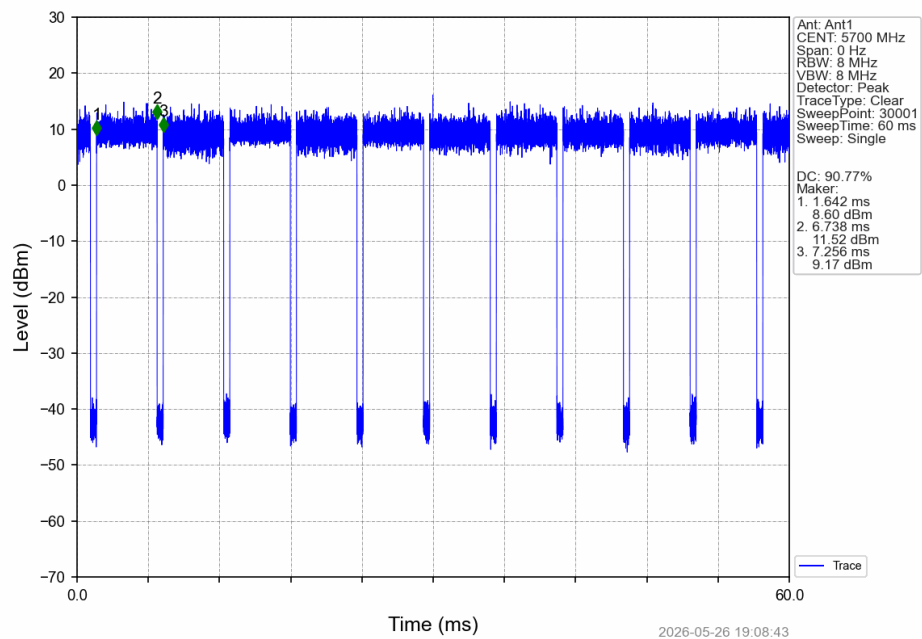
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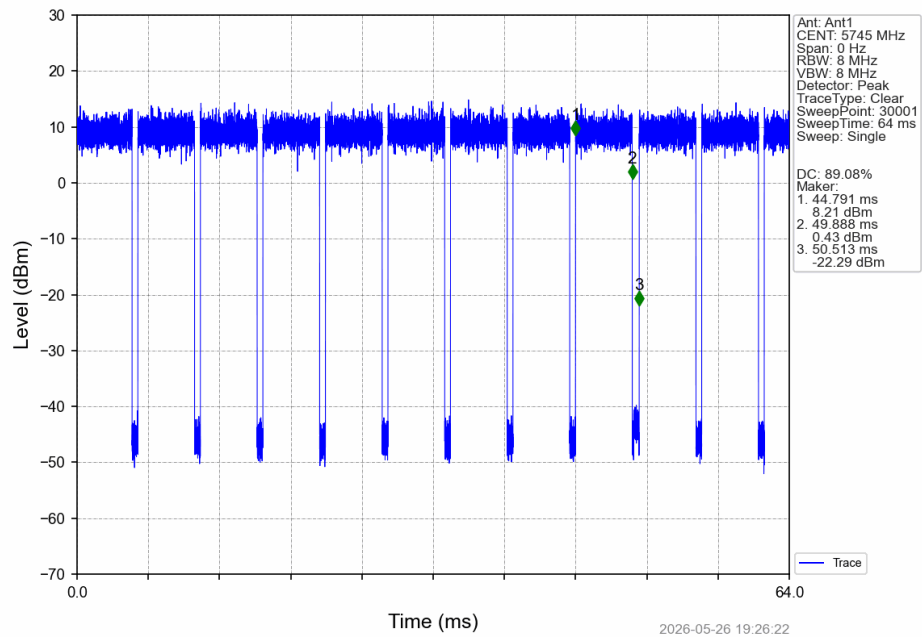
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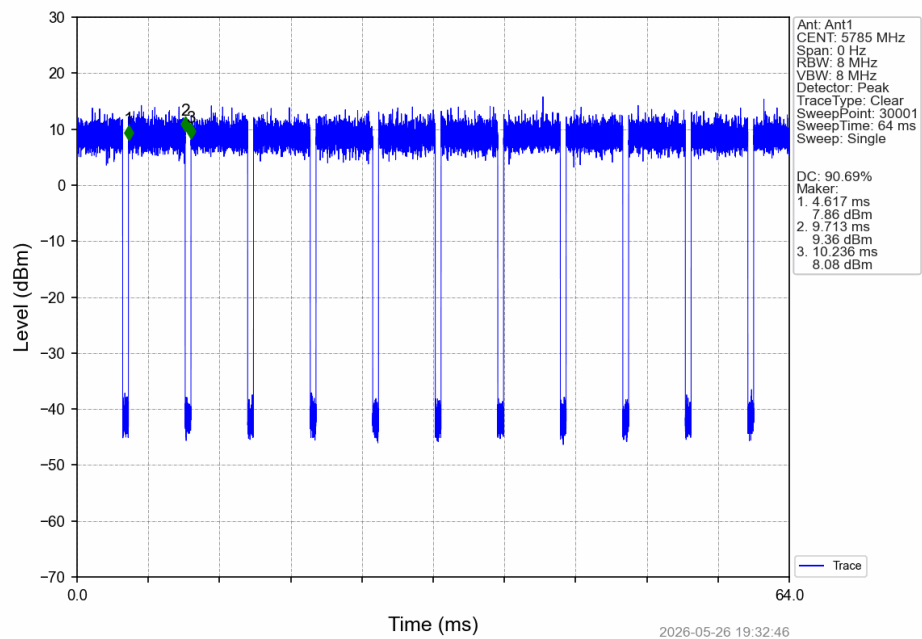
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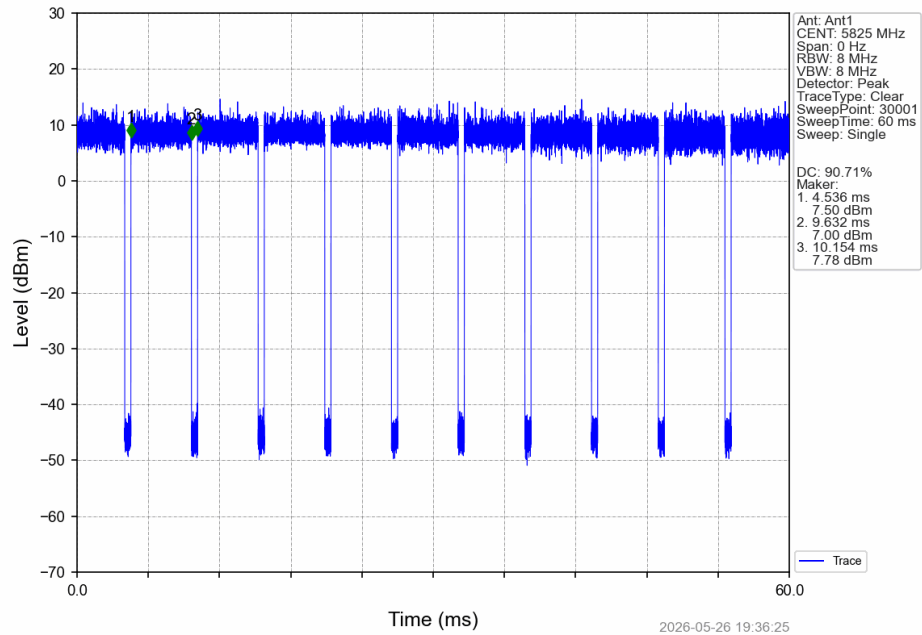
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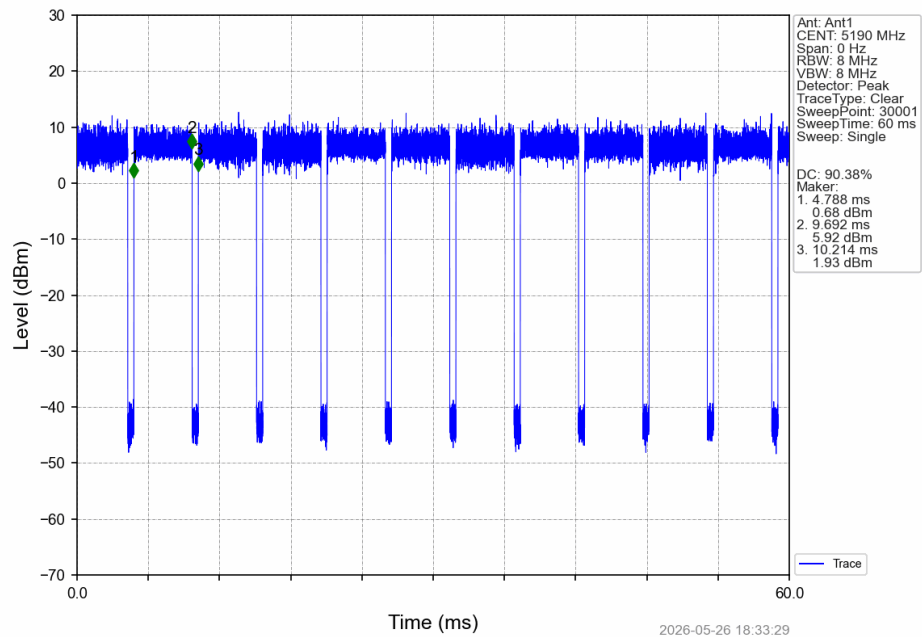
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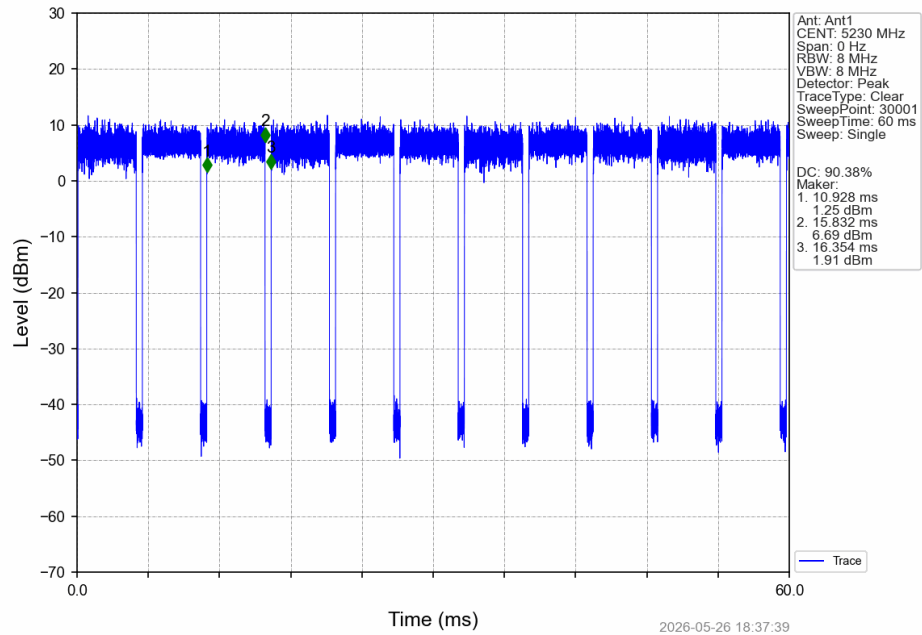
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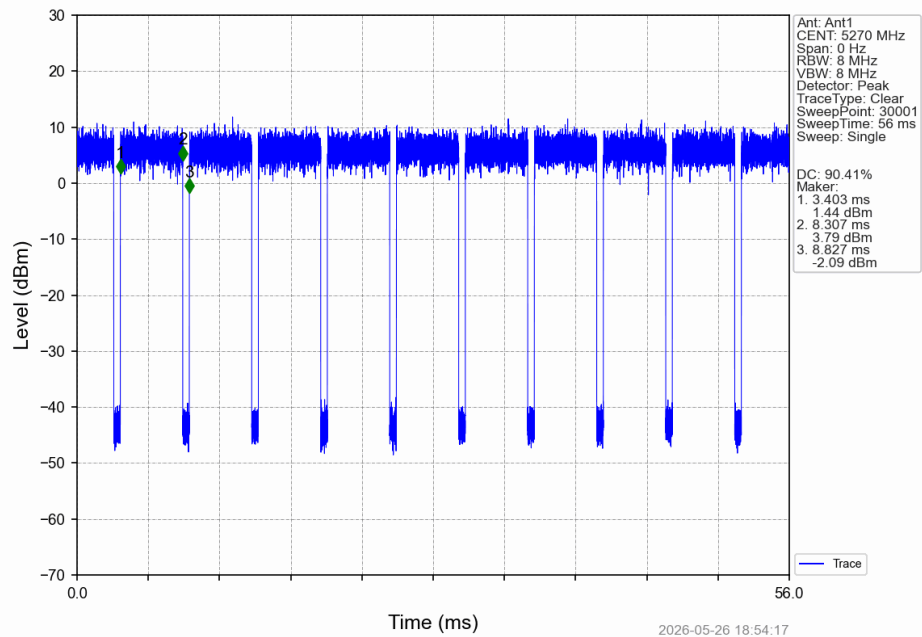
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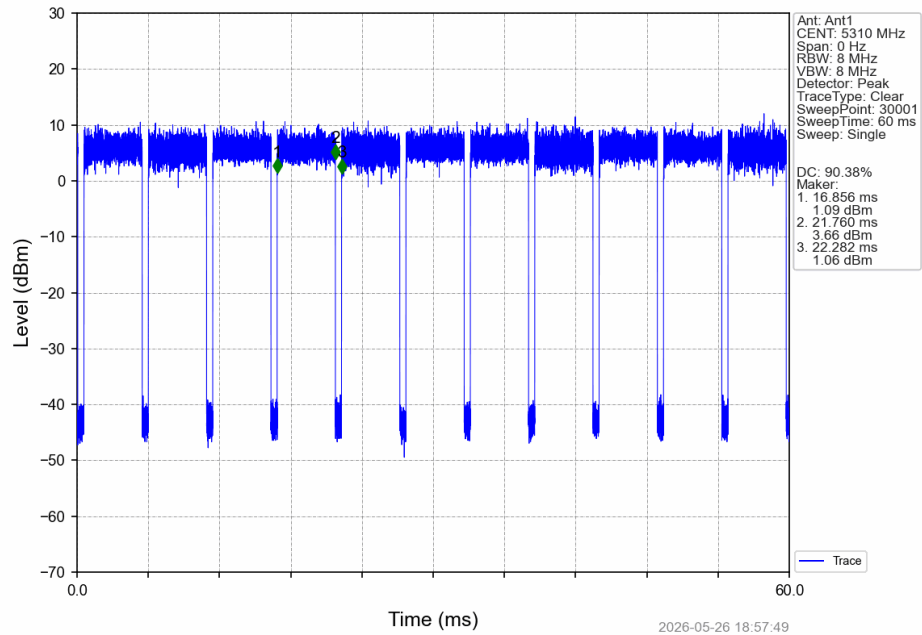
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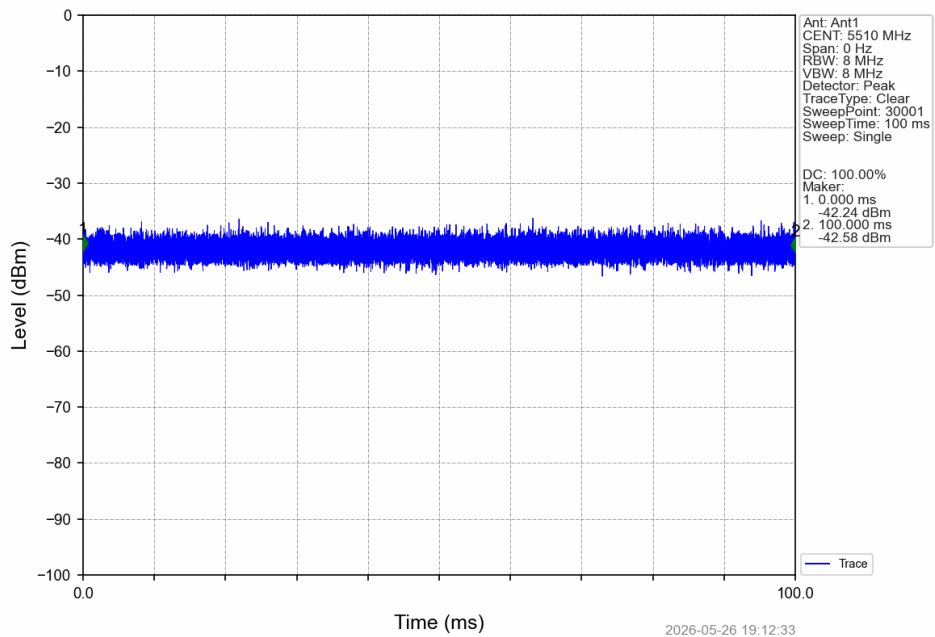
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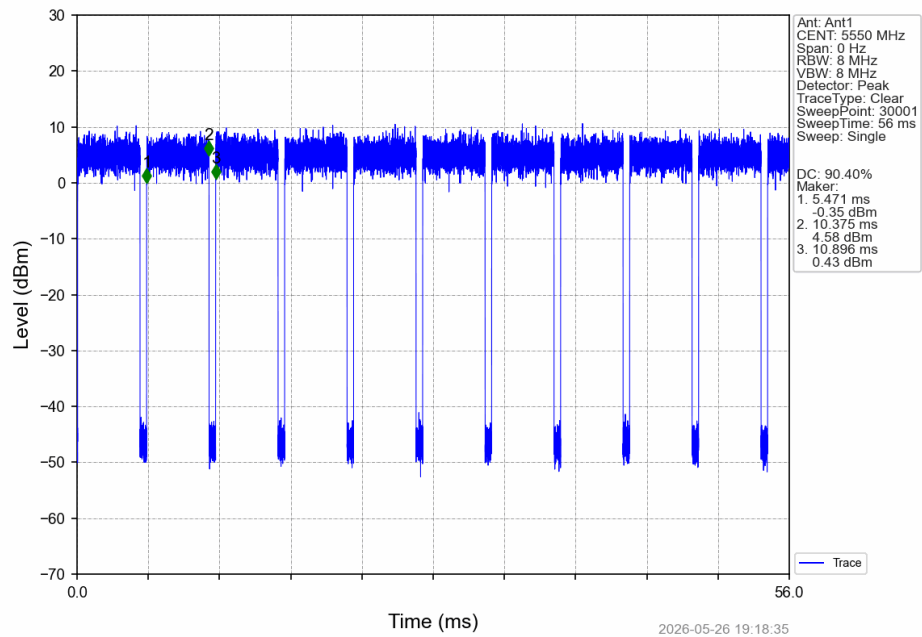
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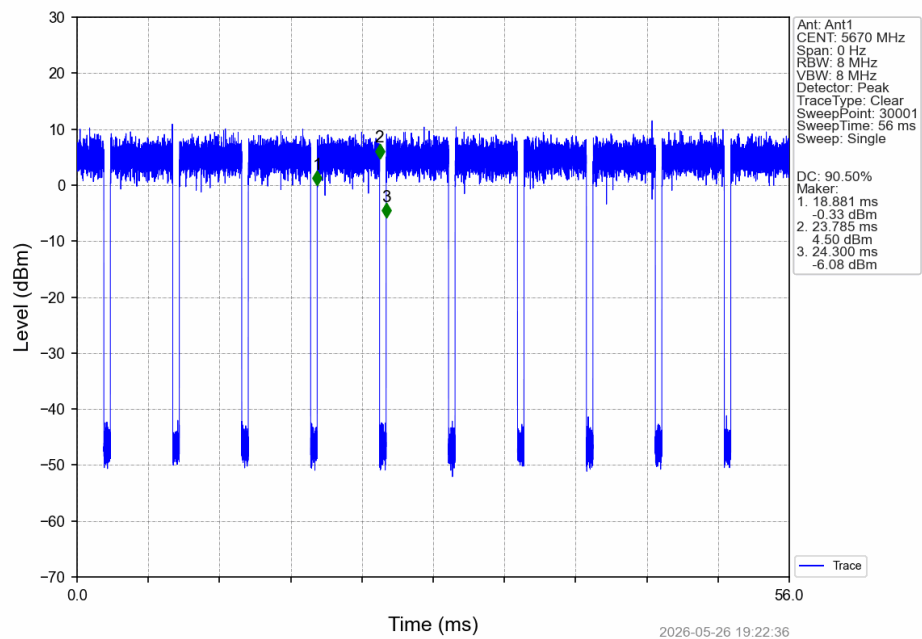
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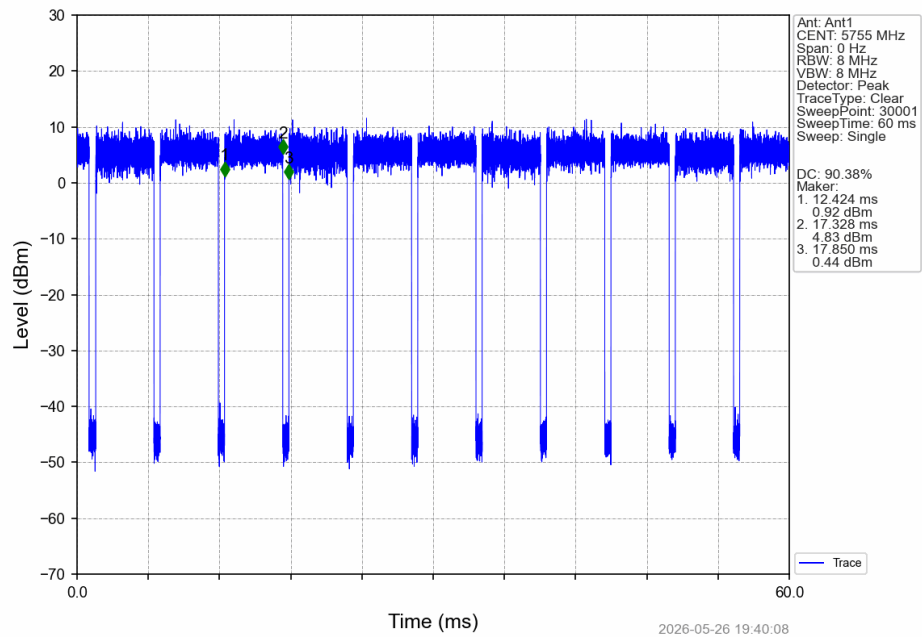
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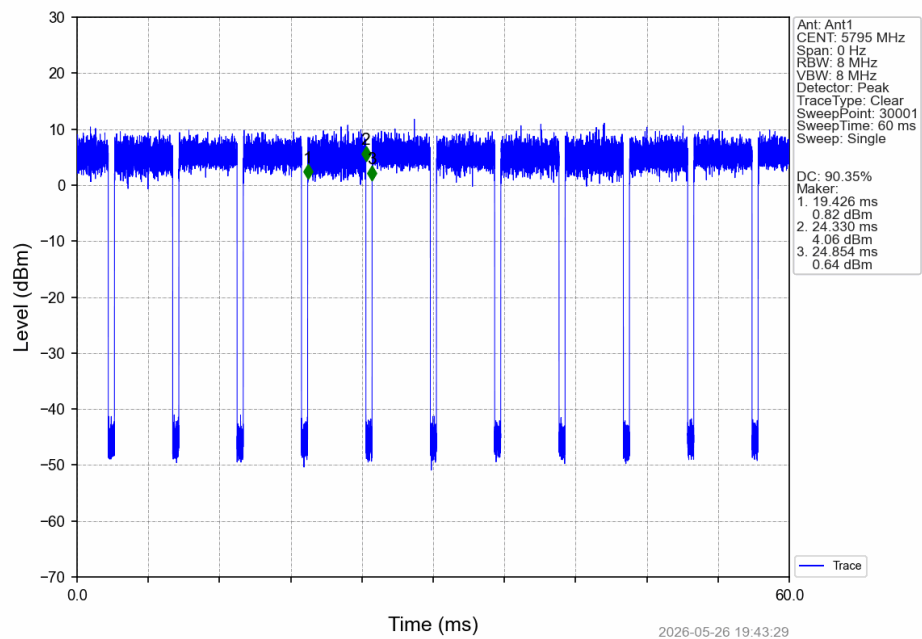
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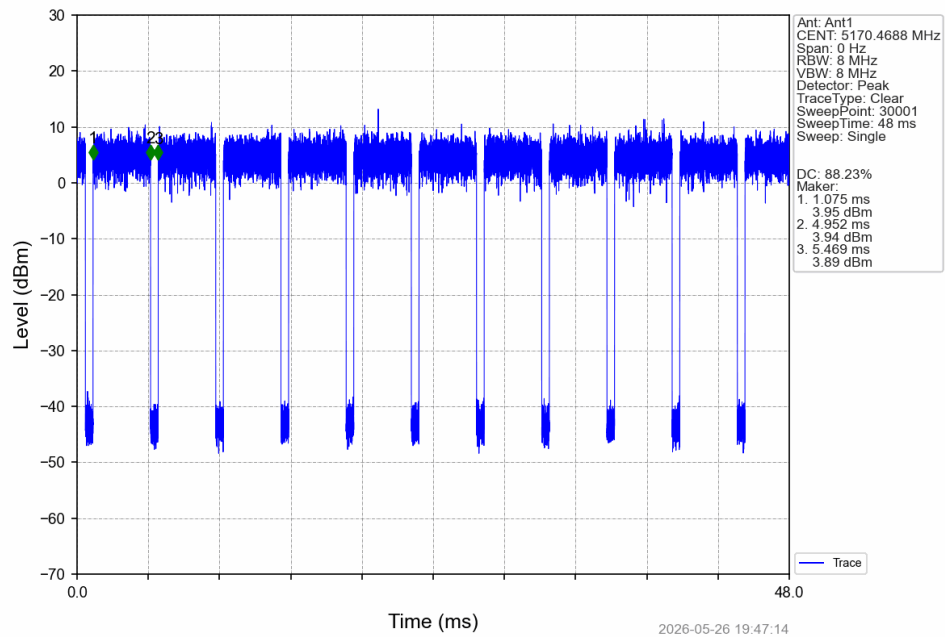
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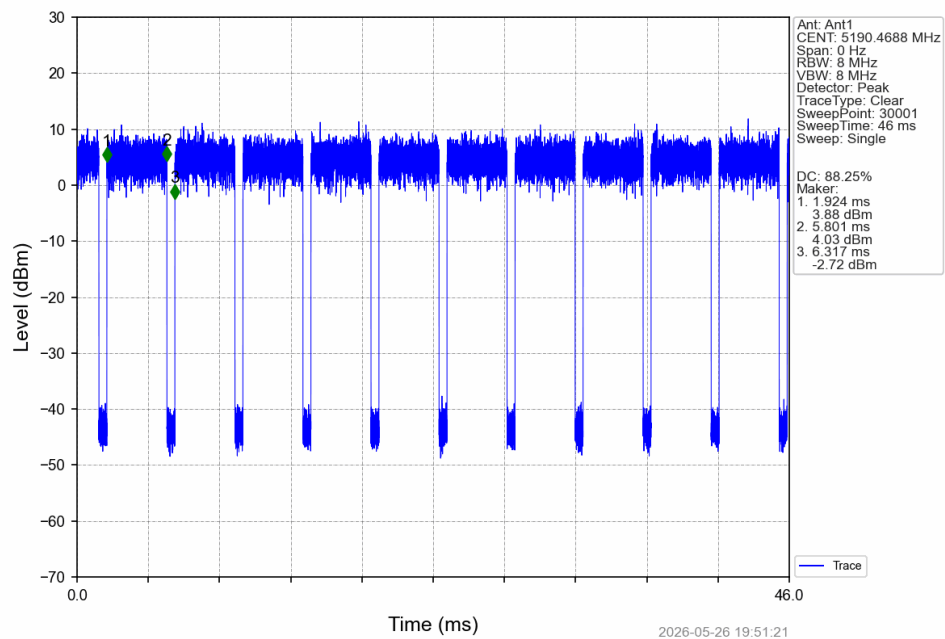
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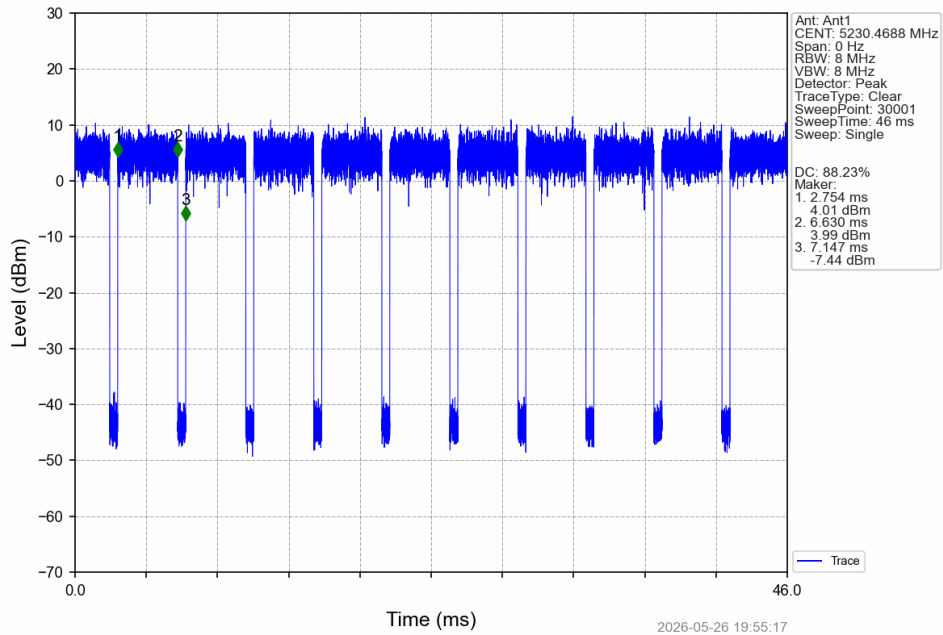
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTN



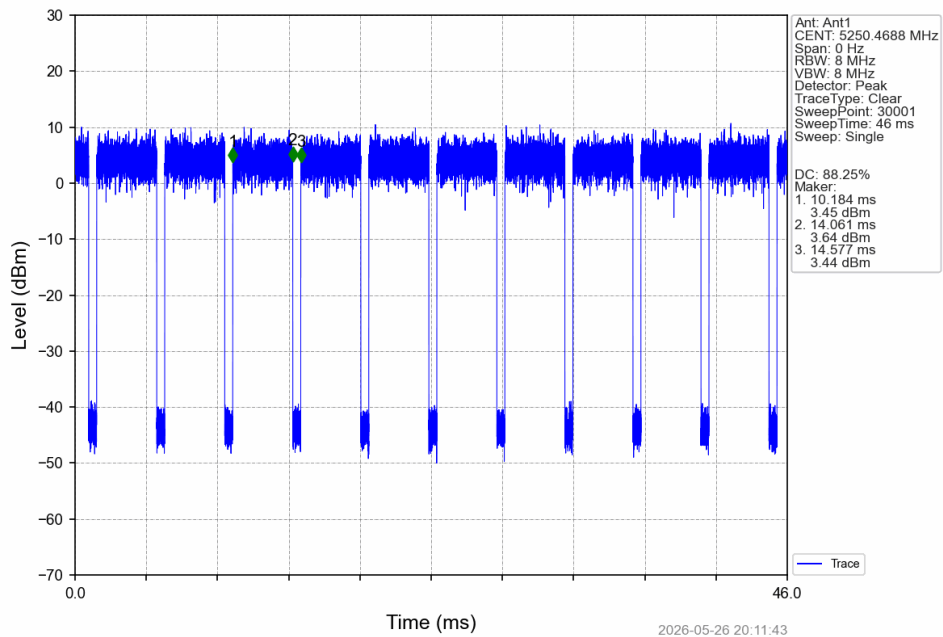
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTN



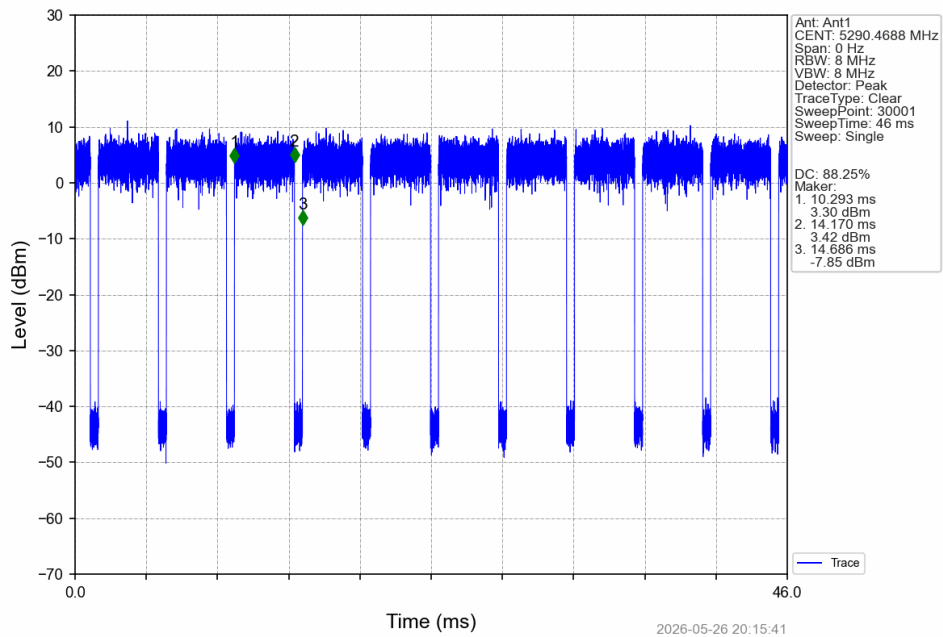
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN



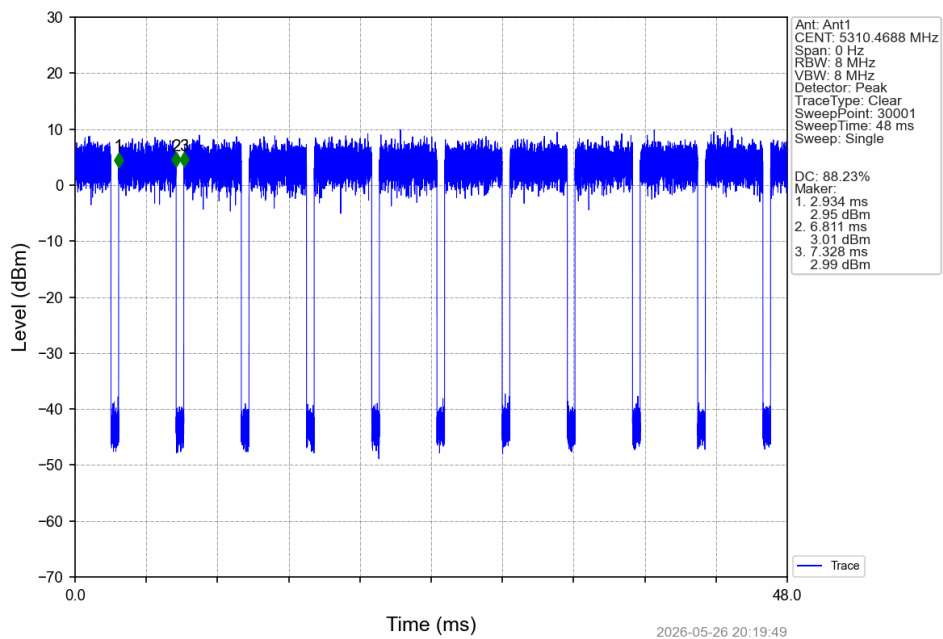
802.11ax(HEW20) LCH 5260MHz SU / Ant1 NTN



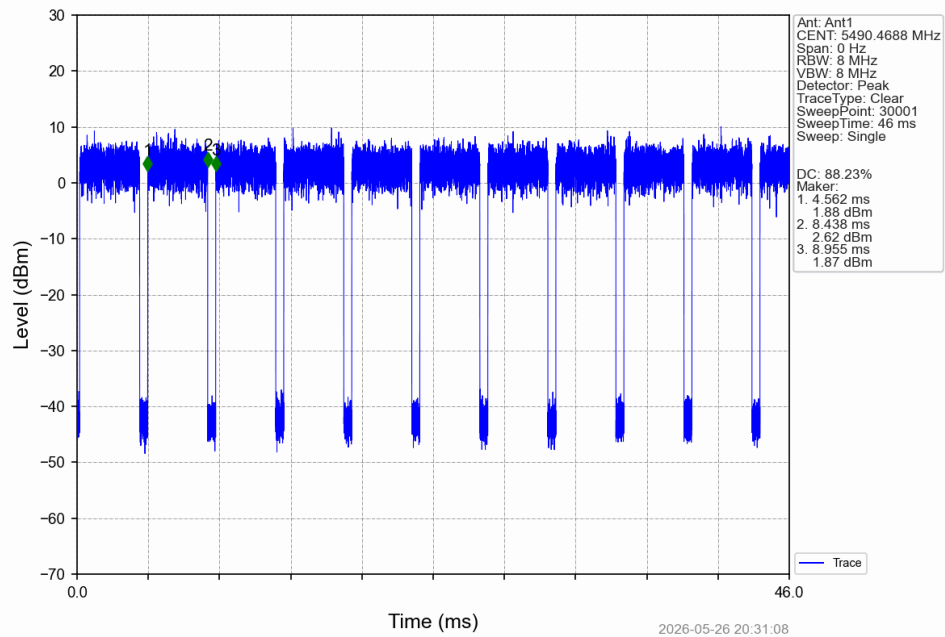
802.11ax(HEW20) MCH 5300MHz SU / Ant1 NTN



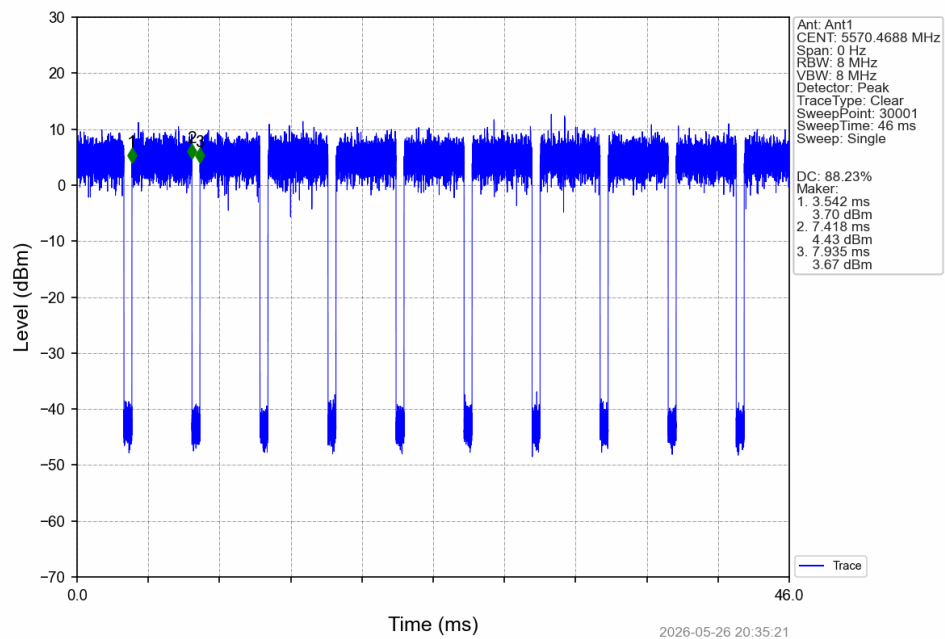
802.11ax(HEW20) HCH 5320MHz SU / Ant1 NTN



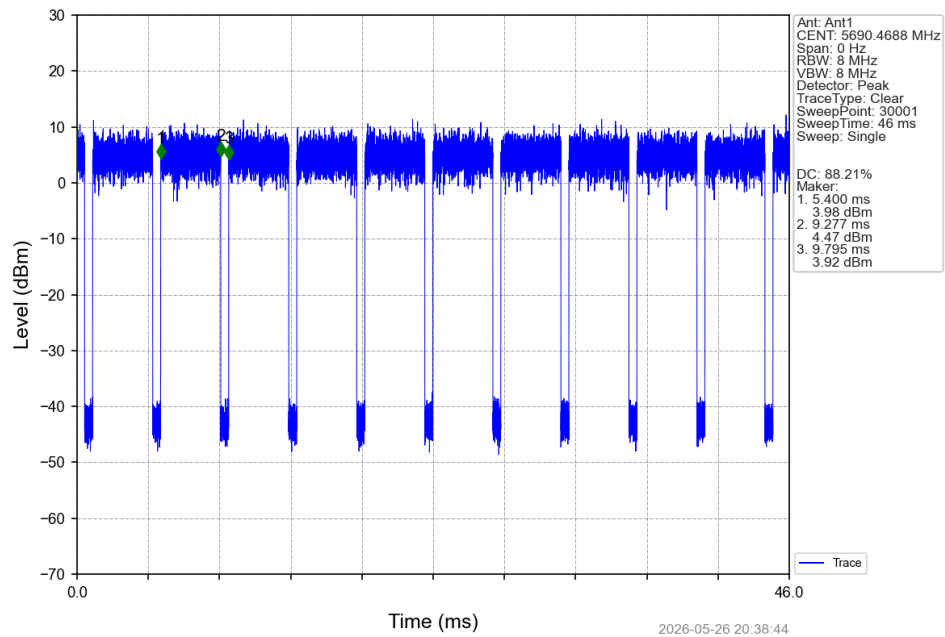
802.11ax(HEW20) LCH 5500MHz SU / Ant1 NTN



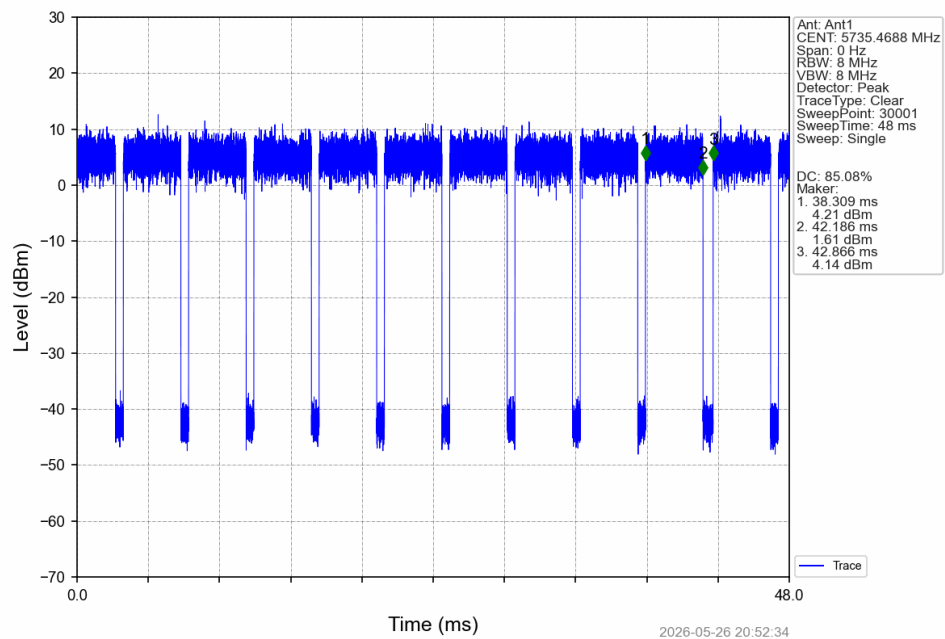
802.11ax(HEW20) MCH 5580MHz SU / Ant1 NTN



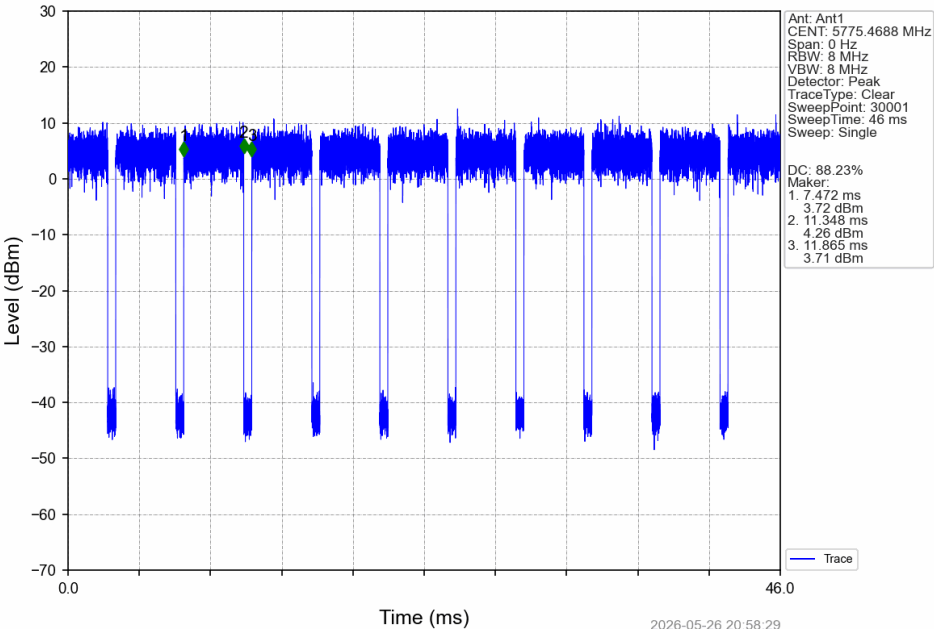
802.11ax(HEW20) HCH 5700MHz SU / Ant1 NTN



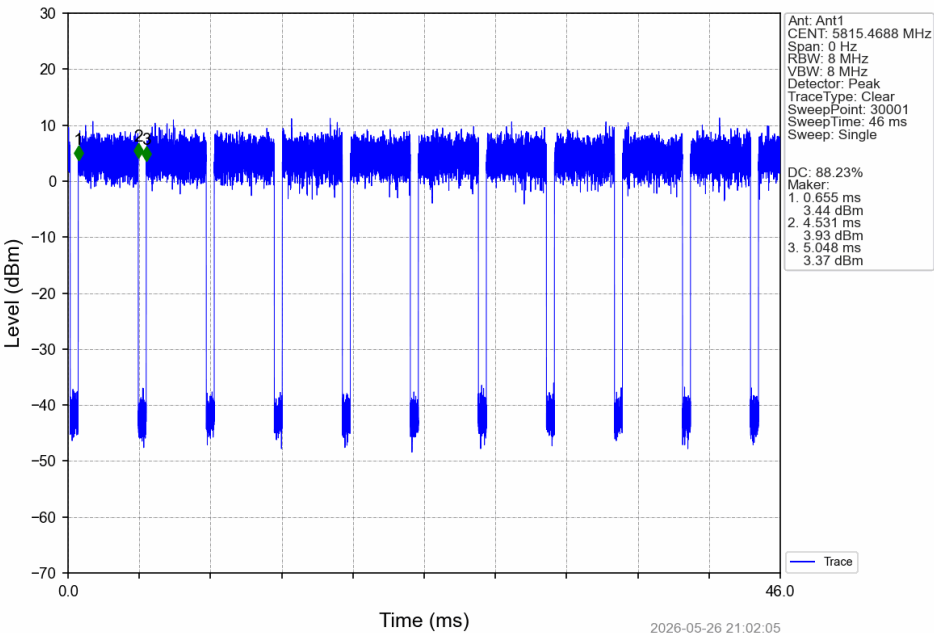
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



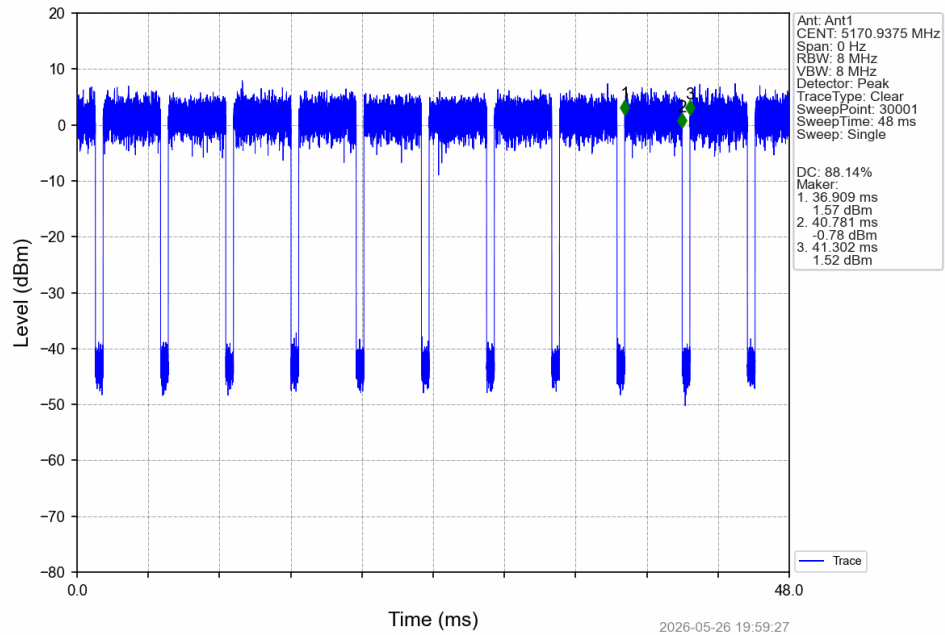
802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTN



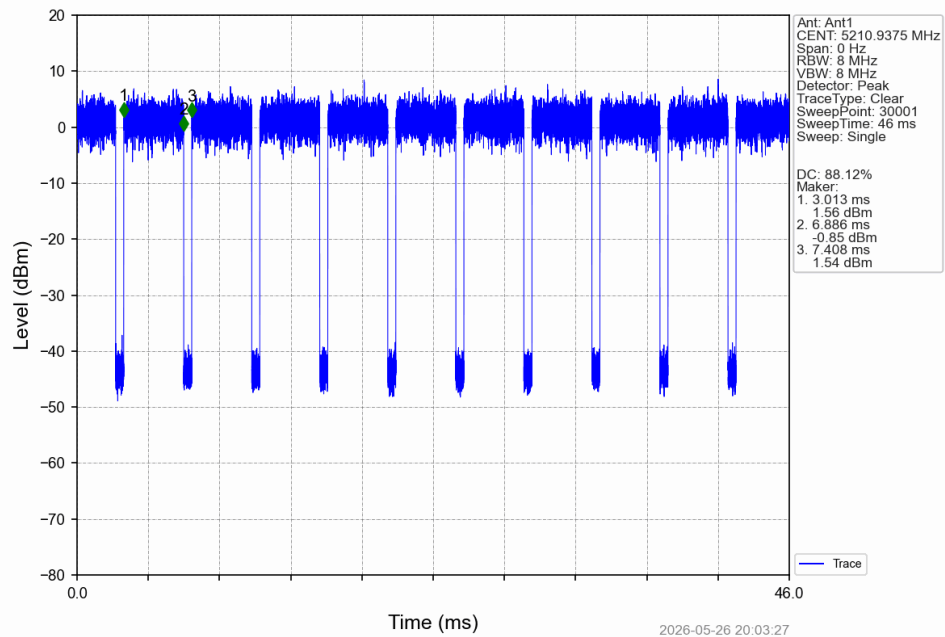
802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTN



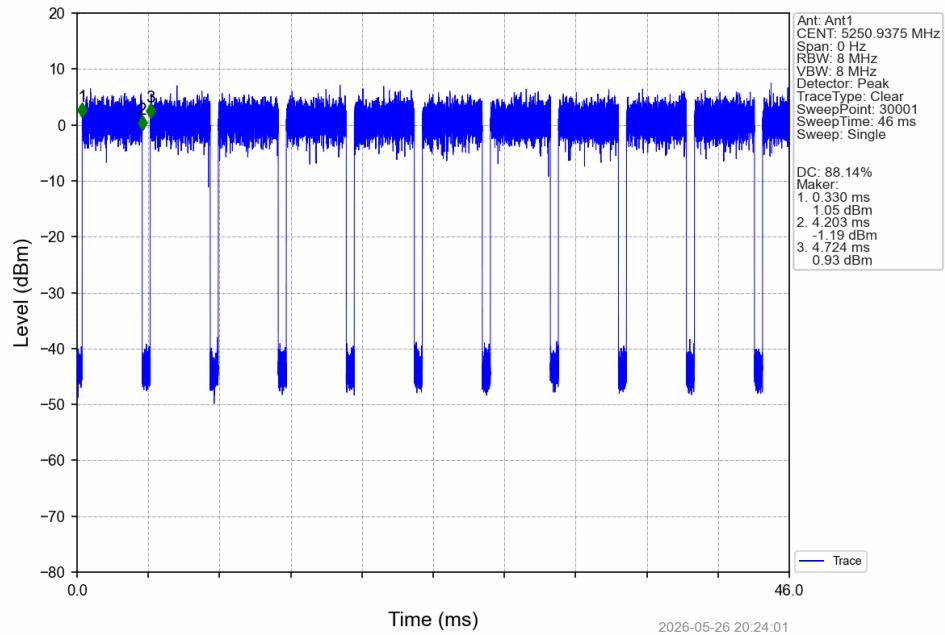
802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTN



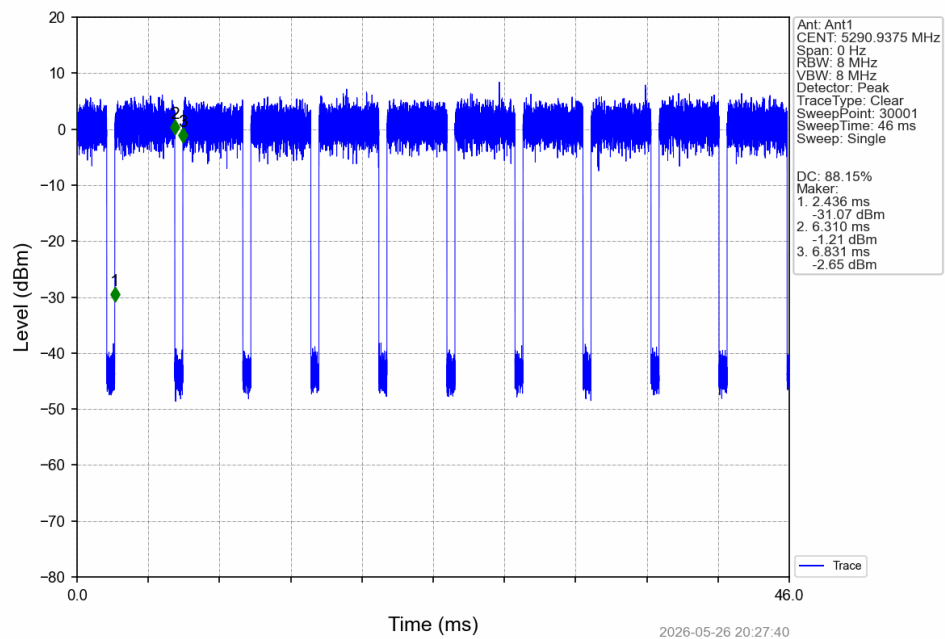
802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN



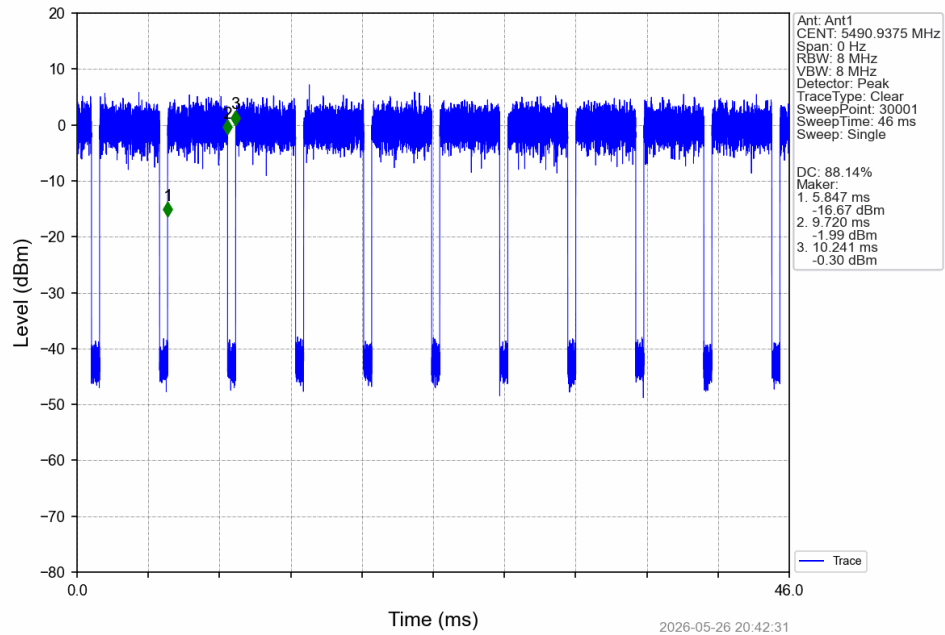
802.11ax(HEW40) LCH 5270MHz SU / Ant1 NTN



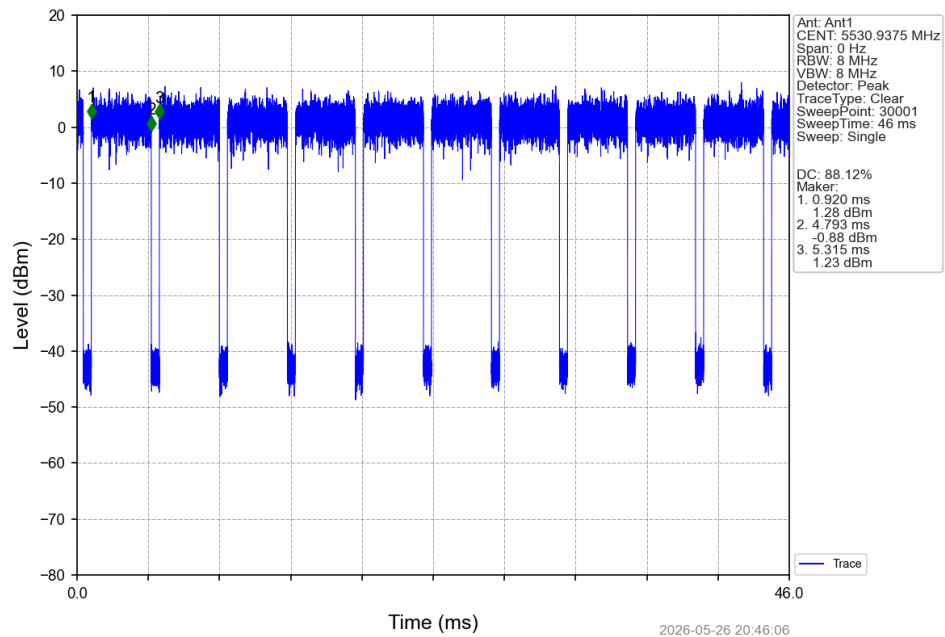
802.11ax(HEW40) HCH 5310MHz SU / Ant1 NTN



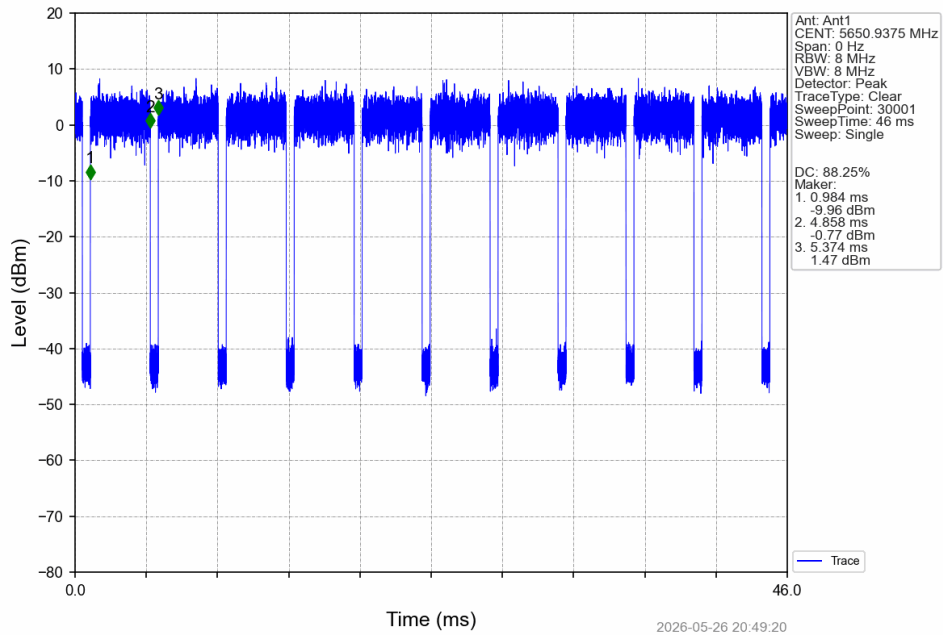
802.11ax(HEW40) LCH 5510MHz SU / Ant1 NTN



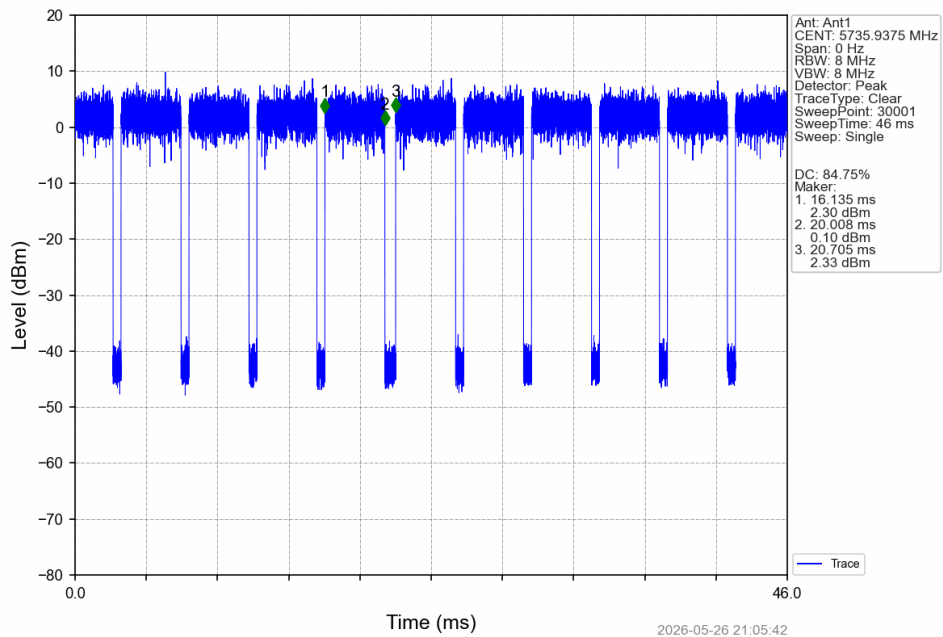
802.11ax(HEW40) MCH 5550MHz SU / Ant1 NTN



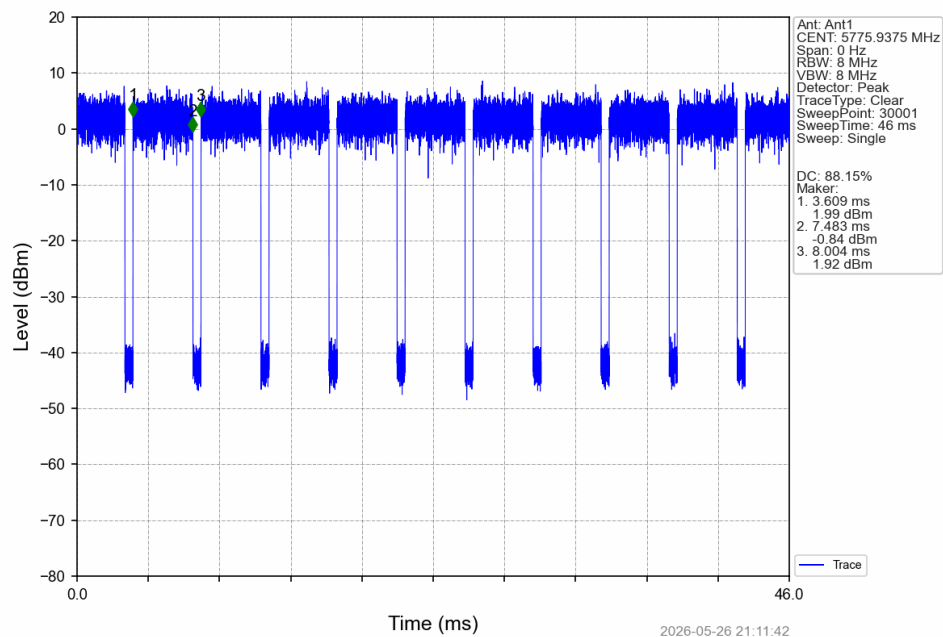
802.11ax(HEW40) HCH 5670MHz SU / Ant1 NTN



802.11ax(HEW40) LCH 5755MHz SU / Ant1 NTN



802.11ax(HEW40) HCH 5795MHz SU / Ant1 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	
802.11a	SISO	5180	/	/	1	16.687	/	Pass
		5200	/	/	1	16.742	/	Pass
		5240	/	/	1	16.689	/	Pass
		5260	/	/	1	16.707	/	Pass
		5300	/	/	1	16.742	/	Pass
		5320	/	/	1	16.702	/	Pass
		5500	/	/	1	16.818	/	Pass
		5580	/	/	1	16.782	/	Pass
		5700	/	/	1	16.783	/	Pass
		5745	/	/	1	16.750	/	Pass
		5785	/	/	1	16.790	/	Pass
		5825	/	/	1	16.790	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	17.940	/	Pass
		5200	/	/	1	17.922	/	Pass
		5240	/	/	1	17.852	/	Pass
		5260	/	/	1	17.930	/	Pass
		5300	/	/	1	17.942	/	Pass
		5320	/	/	1	17.883	/	Pass
		5500	/	/	1	18.004	/	Pass
		5580	/	/	1	17.951	/	Pass
		5700	/	/	1	18.000	/	Pass
		5745	/	/	1	18.026	/	Pass
		5785	/	/	1	18.029	/	Pass
		5825	/	/	1	17.976	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	37.099	/	Pass
		5230	/	/	1	36.973	/	Pass
		5270	/	/	1	37.481	/	Pass
		5310	/	/	1	37.142	/	Pass
		5510	/	/	1	37.422	/	Pass
		5550	/	/	1	37.376	/	Pass
		5670	/	/	1	37.581	/	Pass
		5755	/	/	1	37.349	/	Pass
802.11ac (VHT20)	SISO	5795	/	/	1	37.463	/	Pass
		5180	/	/	1	17.927	/	Pass
		5200	/	/	1	17.986	/	Pass
		5240	/	/	1	17.888	/	Pass
		5260	/	/	1	17.861	/	Pass
		5300	/	/	1	17.916	/	Pass
		5320	/	/	1	17.946	/	Pass
		5500	/	/	1	18.041	/	Pass
		5580	/	/	1	18.035	/	Pass
		5700	/	/	1	18.007	/	Pass
		5745	/	/	1	18.042	/	Pass
		5785	/	/	1	17.969	/	Pass
802.11ac (VHT40)	SISO	5825	/	/	1	18.016	/	Pass
		5190	/	/	1	37.126	/	Pass
		5230	/	/	1	37.170	/	Pass

		5270	/	/	1	37.224	/	Pass
		5310	/	/	1	37.245	/	Pass
		5510	/	/	1	37.499	/	Pass
		5550	/	/	1	37.260	/	Pass
		5670	/	/	1	37.522	/	Pass
		5755	/	/	1	37.585	/	Pass
		5795	/	/	1	37.437	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	19.108	/	Pass
		5200	SU	/	1	19.063	/	Pass
		5240	SU	/	1	19.113	/	Pass
		5260	SU	/	1	19.078	/	Pass
		5300	SU	/	1	19.075	/	Pass
		5320	SU	/	1	19.130	/	Pass
		5500	SU	/	1	19.159	/	Pass
		5580	SU	/	1	19.145	/	Pass
		5700	SU	/	1	19.150	/	Pass
		5745	SU	/	1	19.204	/	Pass
		5785	SU	/	1	19.168	/	Pass
		5825	SU	/	1	19.207	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	38.378	/	Pass
		5230	SU	/	1	38.384	/	Pass
		5270	SU	/	1	38.275	/	Pass
		5310	SU	/	1	38.477	/	Pass
		5510	SU	/	1	38.551	/	Pass
		5550	SU	/	1	38.334	/	Pass
		5670	SU	/	1	38.725	/	Pass
		5755	SU	/	1	38.426	/	Pass
		5795	SU	/	1	38.468	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	25.257	/	Pass
		5200	/	/	1	26.083	/	Pass
		5240	/	/	1	25.197	/	Pass
		5260	/	/	1	24.813	/	Pass
		5300	/	/	1	24.878	/	Pass
		5320	/	/	1	25.352	/	Pass
		5500	/	/	1	26.863	/	Pass
		5580	/	/	1	25.497	/	Pass
		5700	/	/	1	26.663	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	26.382	/	Pass
		5200	/	/	1	26.217	/	Pass
		5240	/	/	1	26.124	/	Pass
		5260	/	/	1	27.051	/	Pass
		5300	/	/	1	25.466	/	Pass
		5320	/	/	1	26.102	/	Pass
		5500	/	/	1	27.626	/	Pass
		5580	/	/	1	26.565	/	Pass
		5700	/	/	1	27.283	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	47.872	/	Pass
		5230	/	/	1	46.577	/	Pass
		5270	/	/	1	48.729	/	Pass
		5310	/	/	1	48.064	/	Pass
		5550	/	/	1	48.740	/	Pass

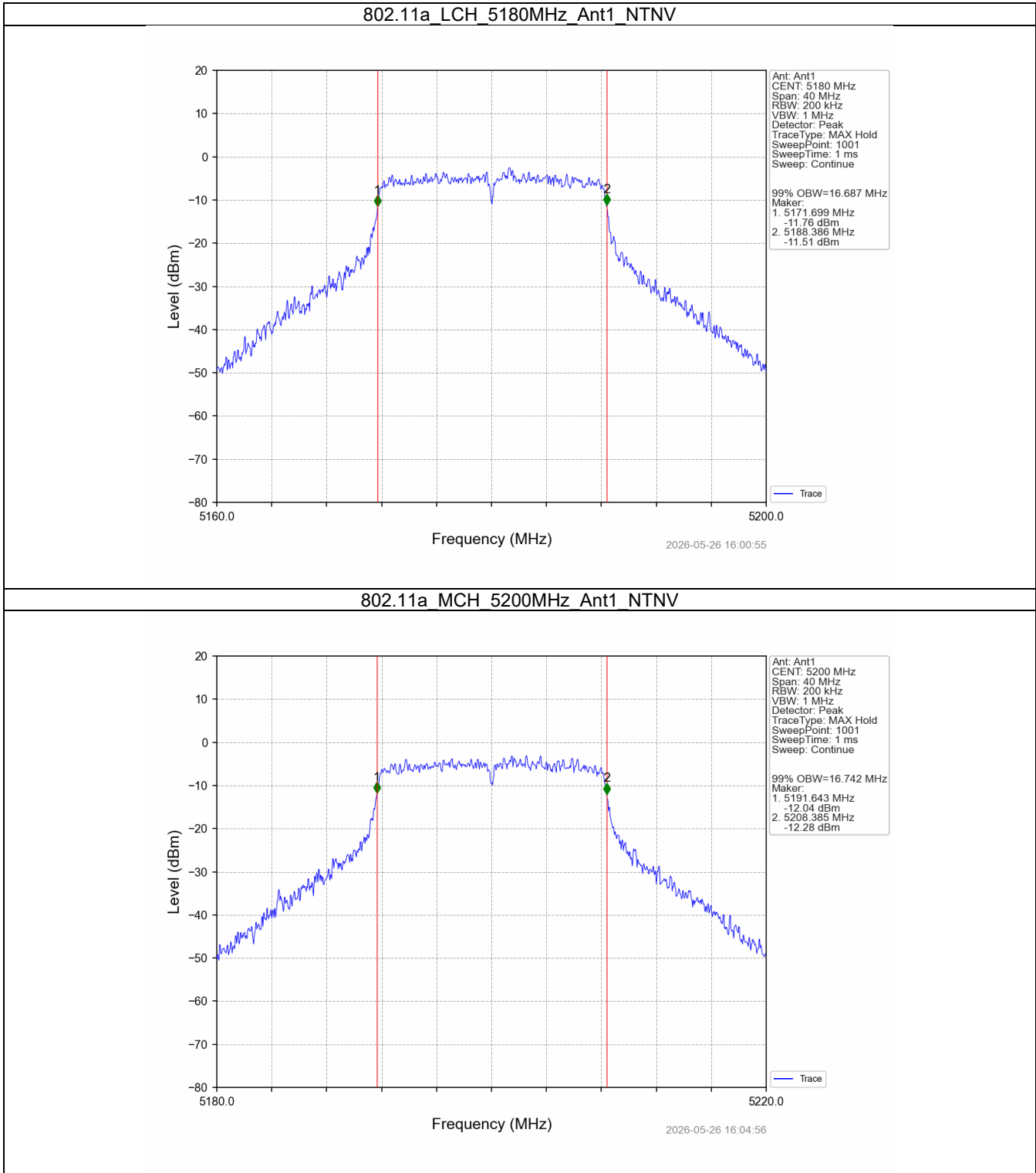
		5670	/	/	1	49.551	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	26.088	/	Pass
		5200	/	/	1	25.976	/	Pass
		5240	/	/	1	26.039	/	Pass
		5260	/	/	1	25.138	/	Pass
		5300	/	/	1	25.277	/	Pass
		5320	/	/	1	26.514	/	Pass
		5500	/	/	1	25.915	/	Pass
		5580	/	/	1	26.420	/	Pass
		5700	/	/	1	26.479	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	47.275	/	Pass
		5230	/	/	1	47.950	/	Pass
		5270	/	/	1	48.536	/	Pass
		5310	/	/	1	48.827	/	Pass
		5510	/	/	1	48.158	/	Pass
		5550	/	/	1	50.106	/	Pass
		5670	/	/	1	47.483	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	25.014	/	Pass
		5200	SU	/	1	24.073	/	Pass
		5240	SU	/	1	24.126	/	Pass
		5260	SU	/	1	25.422	/	Pass
		5300	SU	/	1	25.056	/	Pass
		5320	SU	/	1	25.207	/	Pass
		5500	SU	/	1	25.665	/	Pass
		5580	SU	/	1	26.356	/	Pass
802.11ax (HEW40)	SISO	5700	SU	/	1	26.174	/	Pass
		5190	SU	/	1	47.145	/	Pass
		5230	SU	/	1	45.499	/	Pass
		5270	SU	/	1	47.412	/	Pass
		5310	SU	/	1	48.291	/	Pass
		5510	SU	/	1	48.682	/	Pass
		5550	SU	/	1	46.830	/	Pass
		5670	SU	/	1	47.466	/	Pass

2.1.3 6dB BW

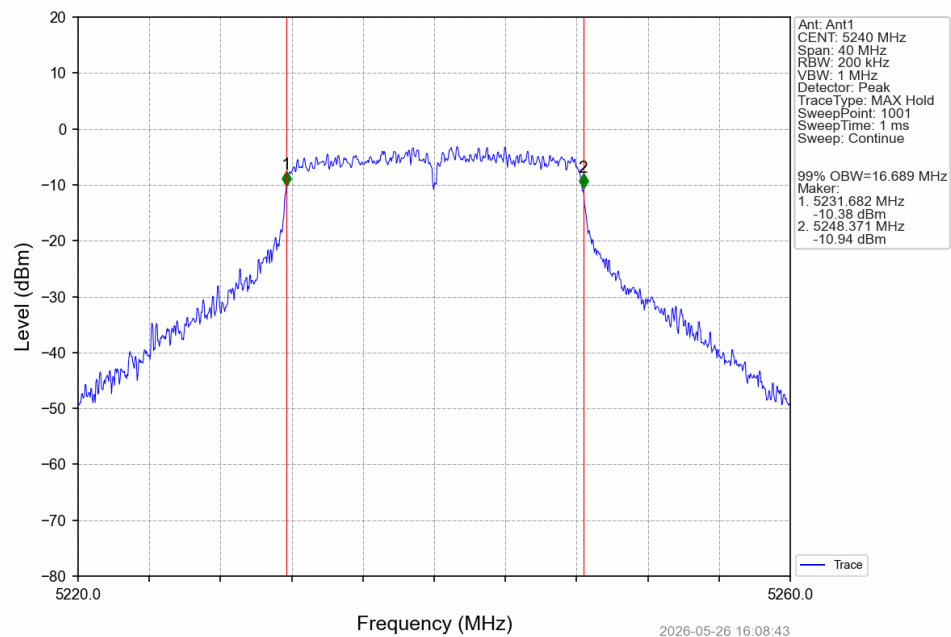
Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.410	>=0.5	Pass
		5785	/	/	1	16.416	>=0.5	Pass
		5825	/	/	1	16.423	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	17.658	>=0.5	Pass
		5785	/	/	1	17.694	>=0.5	Pass
		5825	/	/	1	17.660	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	36.426	>=0.5	Pass
		5795	/	/	1	36.399	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.641	>=0.5	Pass
		5785	/	/	1	17.665	>=0.5	Pass
		5825	/	/	1	17.654	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.418	>=0.5	Pass
		5795	/	/	1	36.430	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	19.049	>=0.5	Pass
		5785	SU	/	1	19.004	>=0.5	Pass
		5825	SU	/	1	19.020	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	38.012	>=0.5	Pass
		5795	SU	/	1	37.885	>=0.5	Pass

2.2 Test Graph

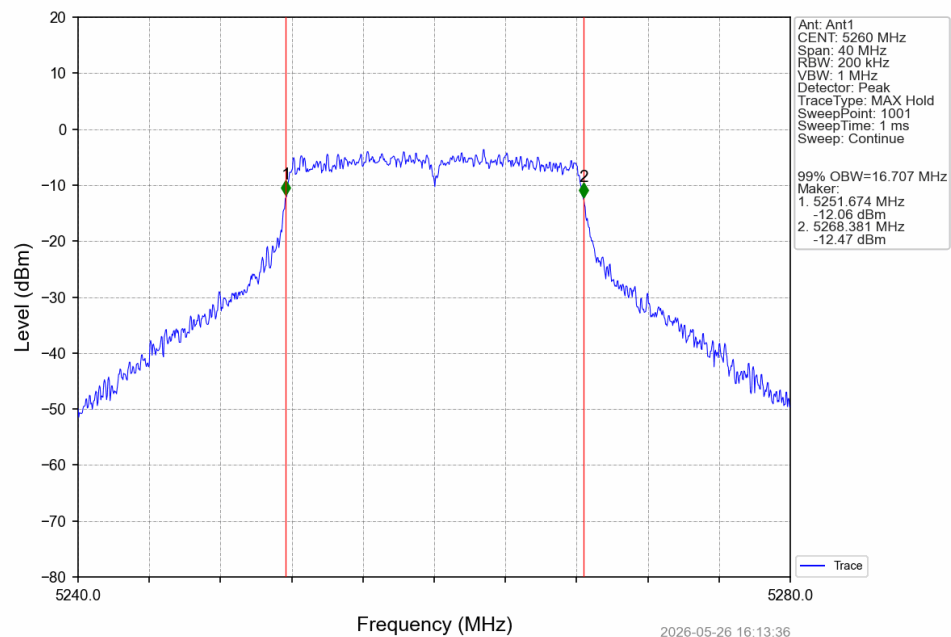
2.2.1 OBW



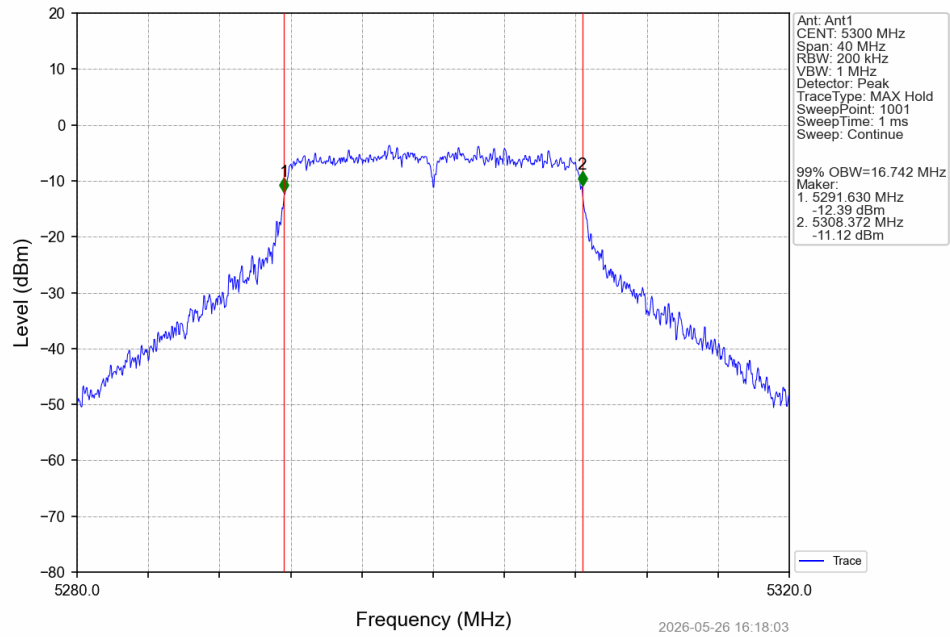
802.11a_HCH_5240MHz_Ant1_NTNV



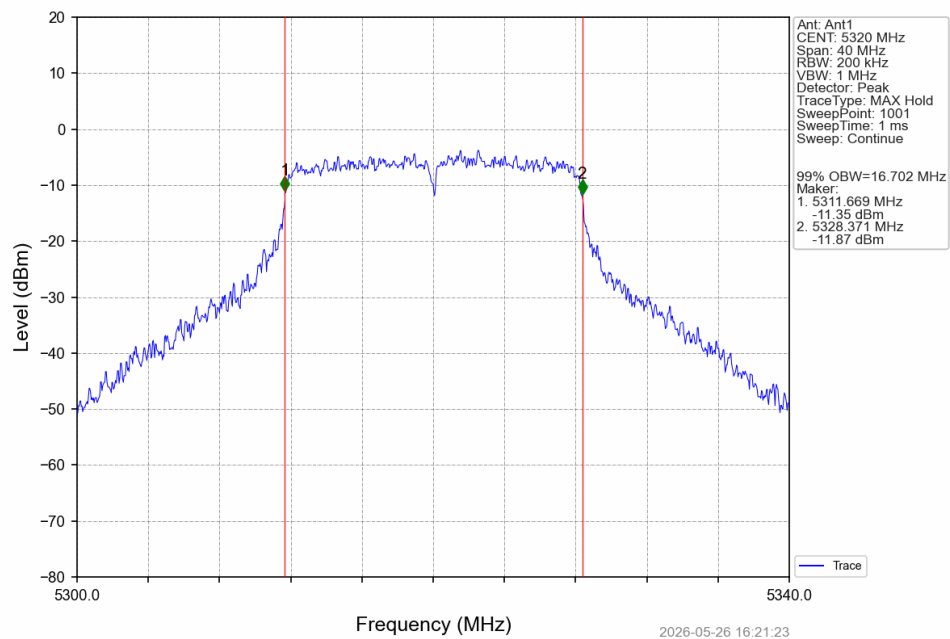
802.11a_LCH_5260MHz_Ant1_NTNV



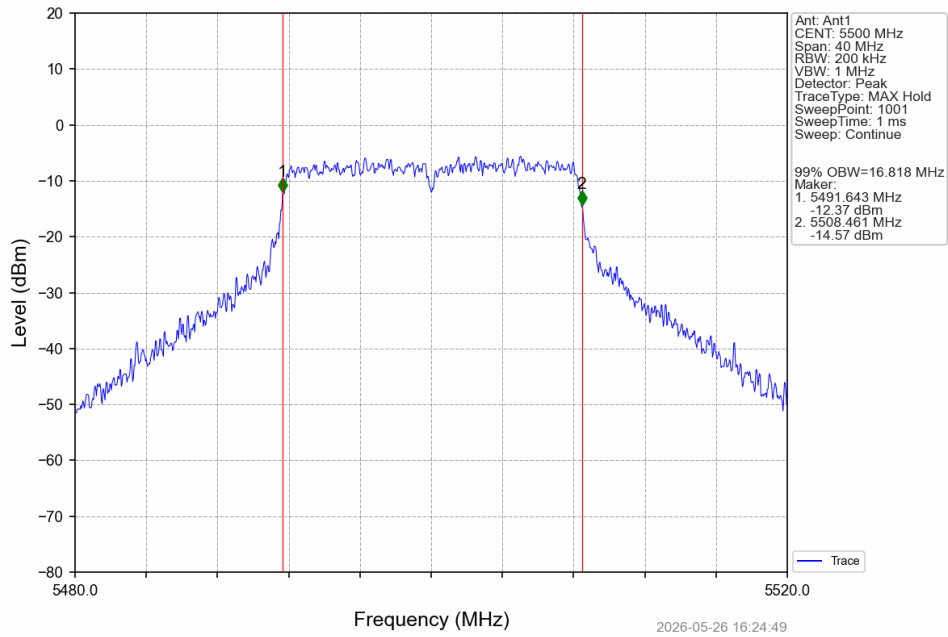
802.11a_MCH_5300MHz_Ant1_NTNV



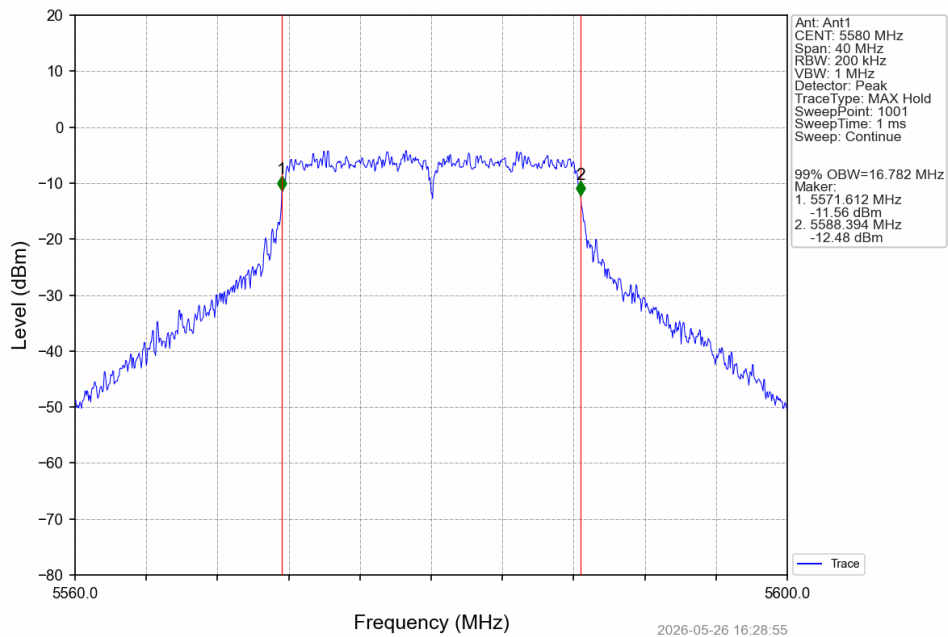
802.11a_HCH_5320MHz_Ant1_NTNV



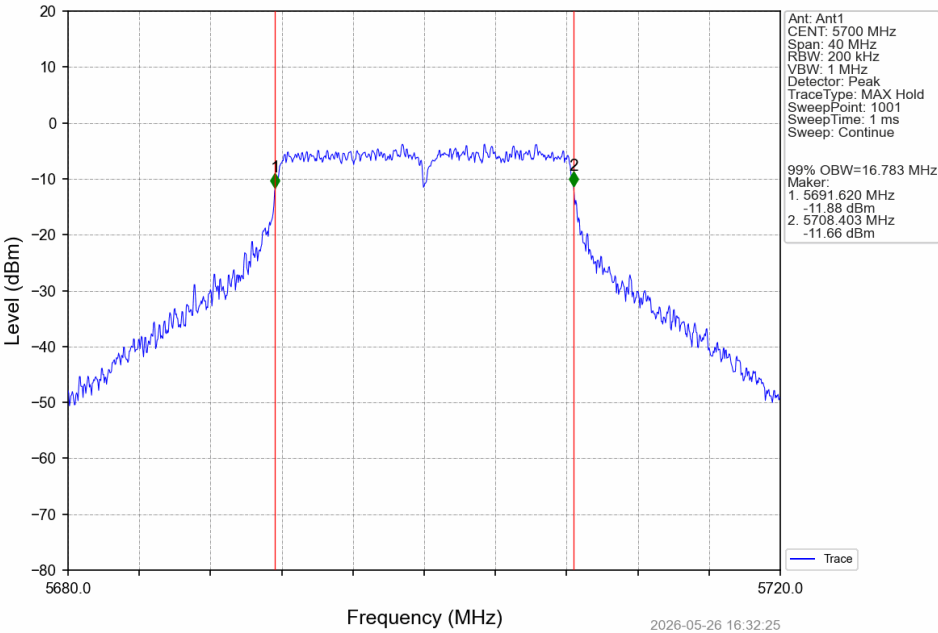
802.11a LCH 5500MHz Ant1 NTNV



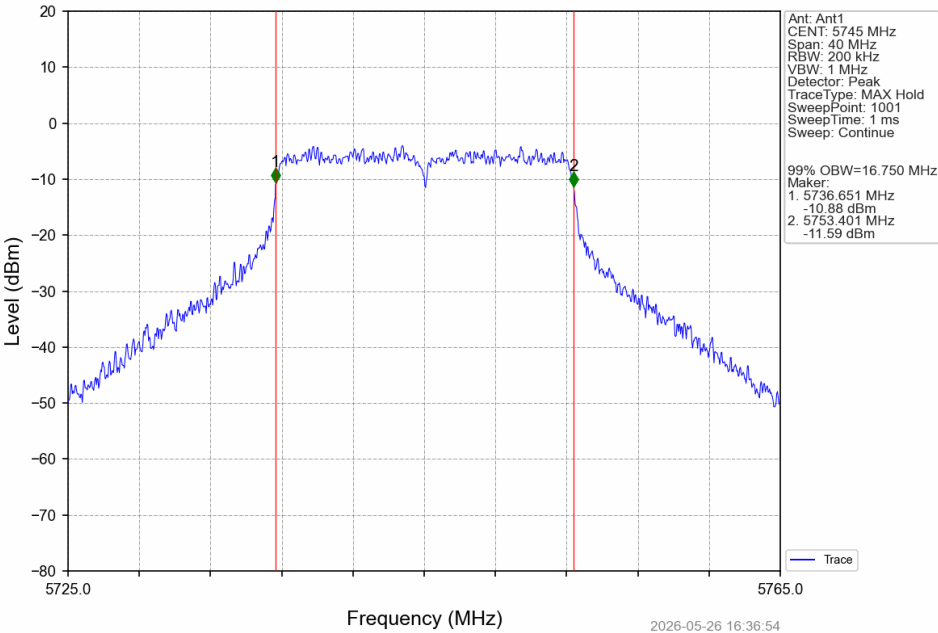
802.11a_MCH_5580MHz_Ant1_NTNV



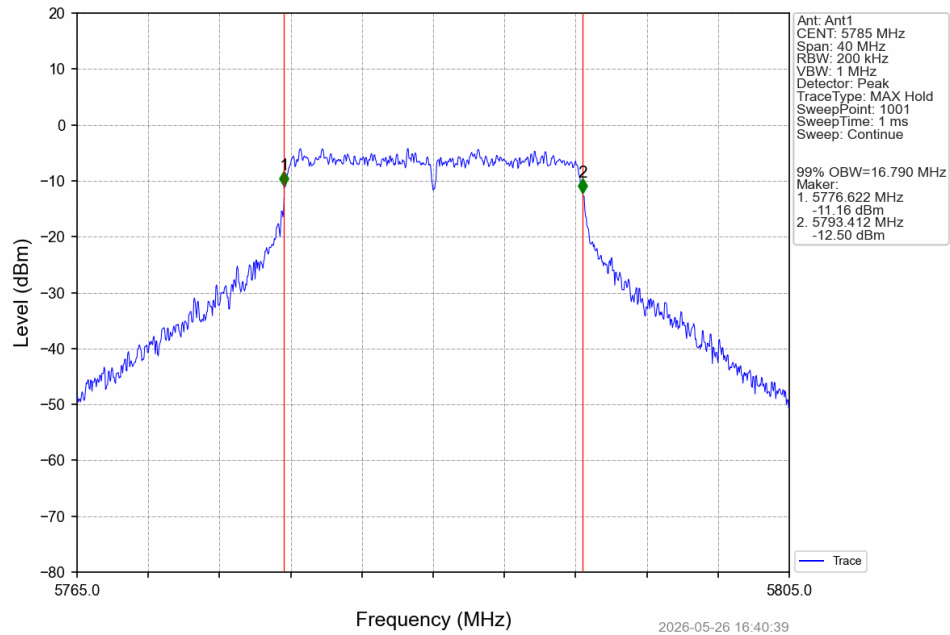
802.11a_HCH_5700MHz_Ant1_NTNV



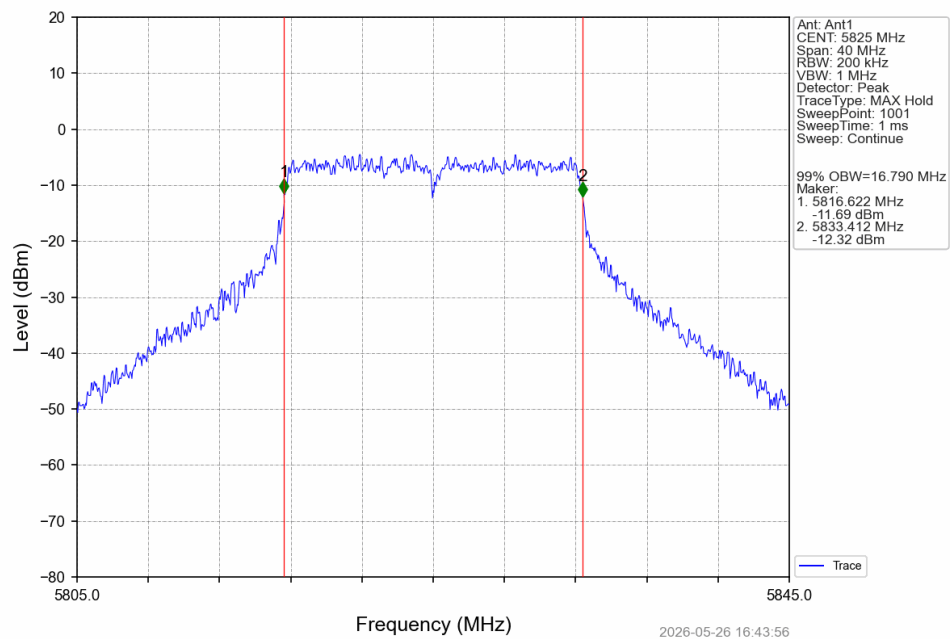
802.11a_LCH_5745MHz_Ant1_NTNV



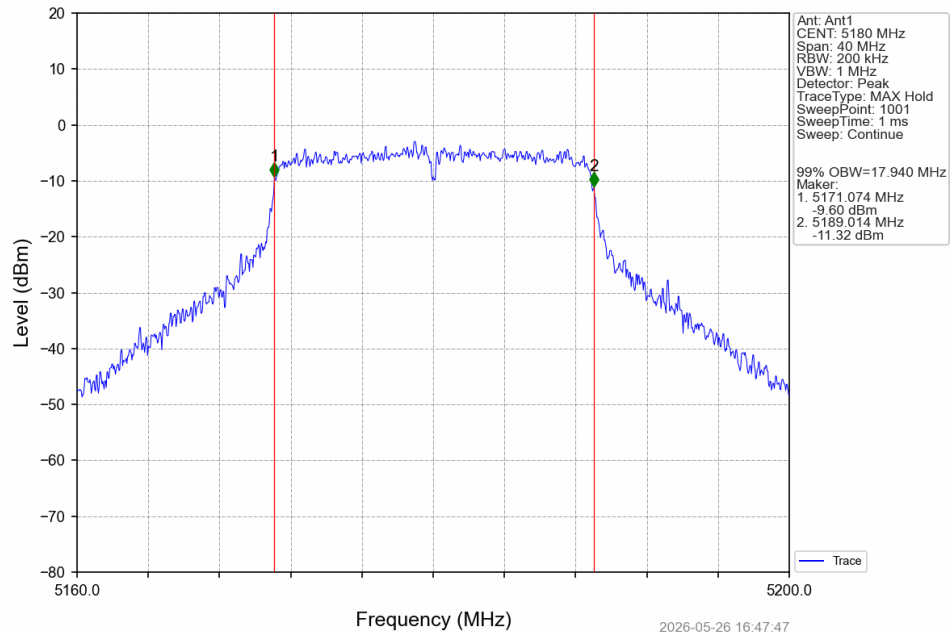
802.11a MCH 5785MHz Ant1 NTNV



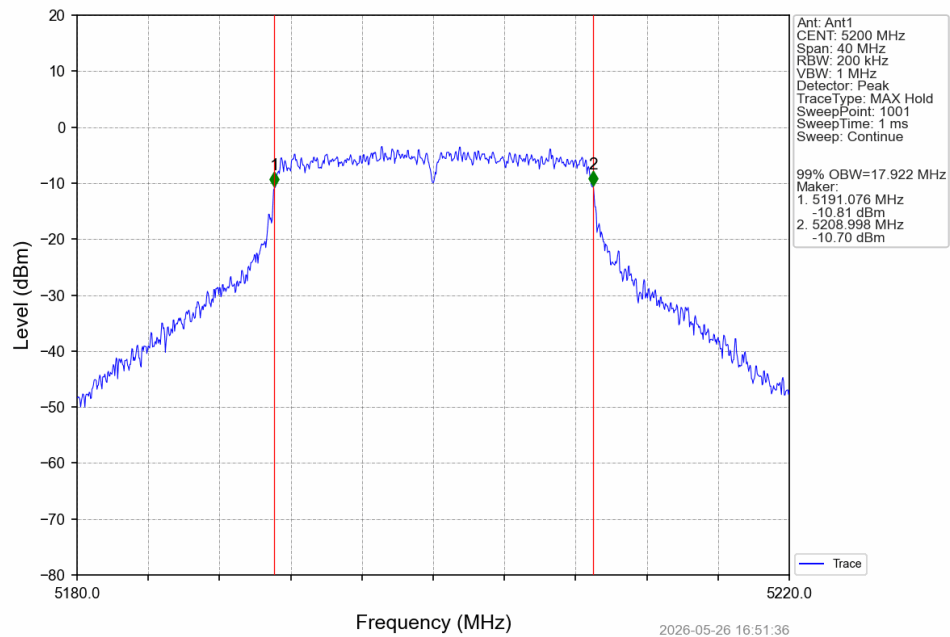
802.11a HCH 5825MHz Ant1 NTNV



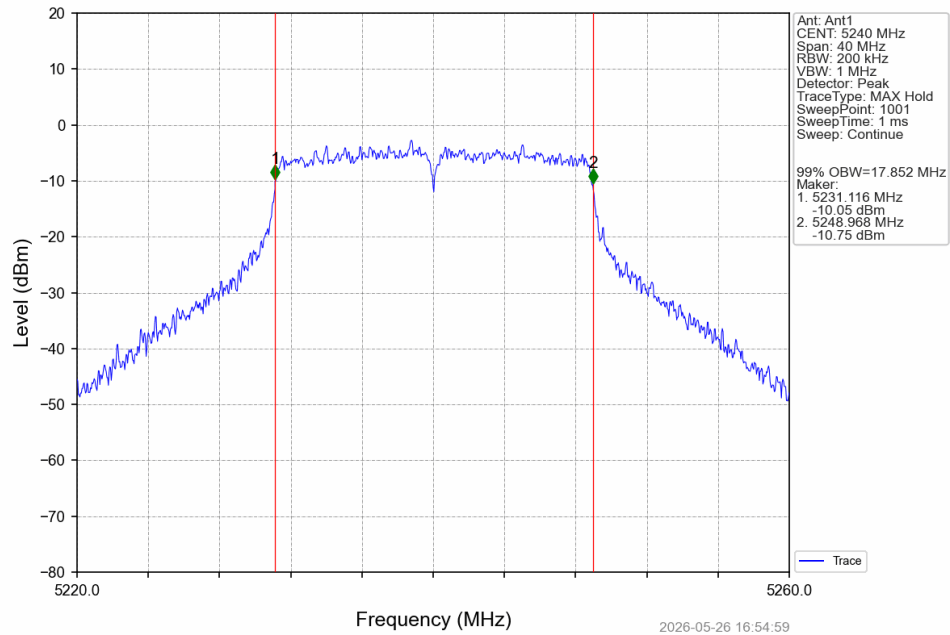
802.11n(HT20) LCH 5180MHz Ant1 NTN



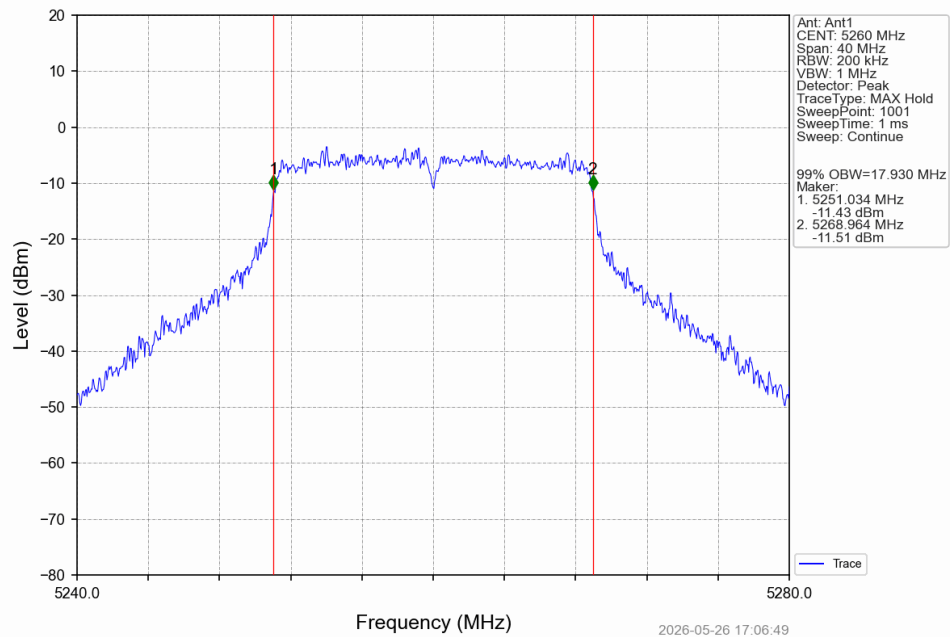
802.11n(HT20)_MCH_5200MHz_Ant1_NTN



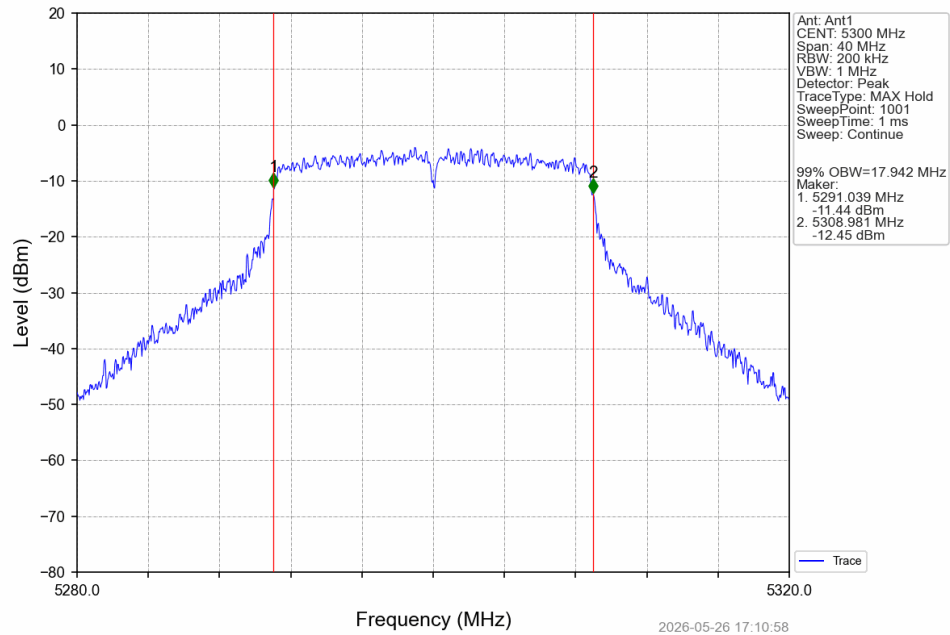
802.11n(HT20) HCH 5240MHz Ant1 NTN



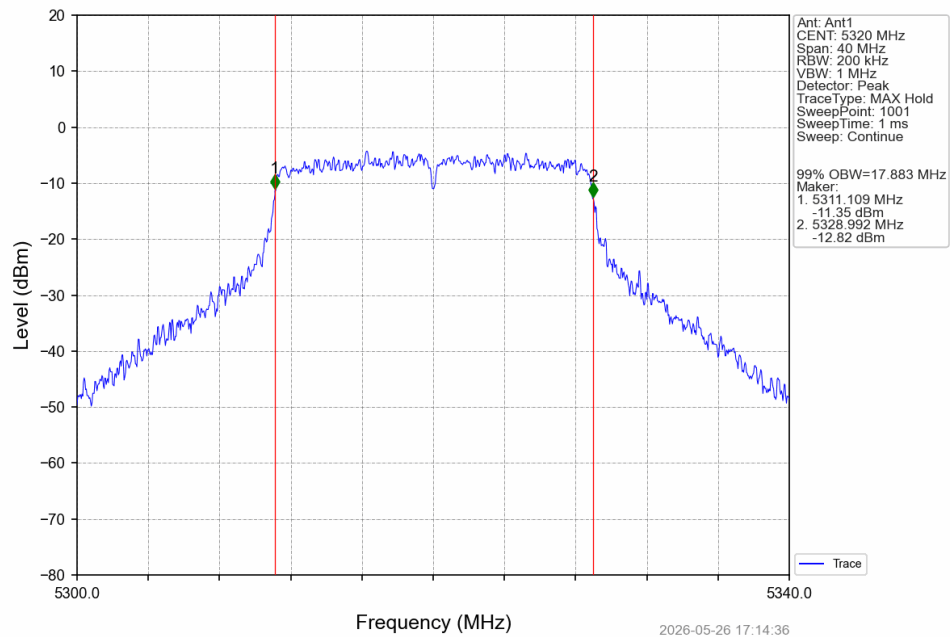
802.11n(HT20)_LCH_5260MHz_Ant1_NTN



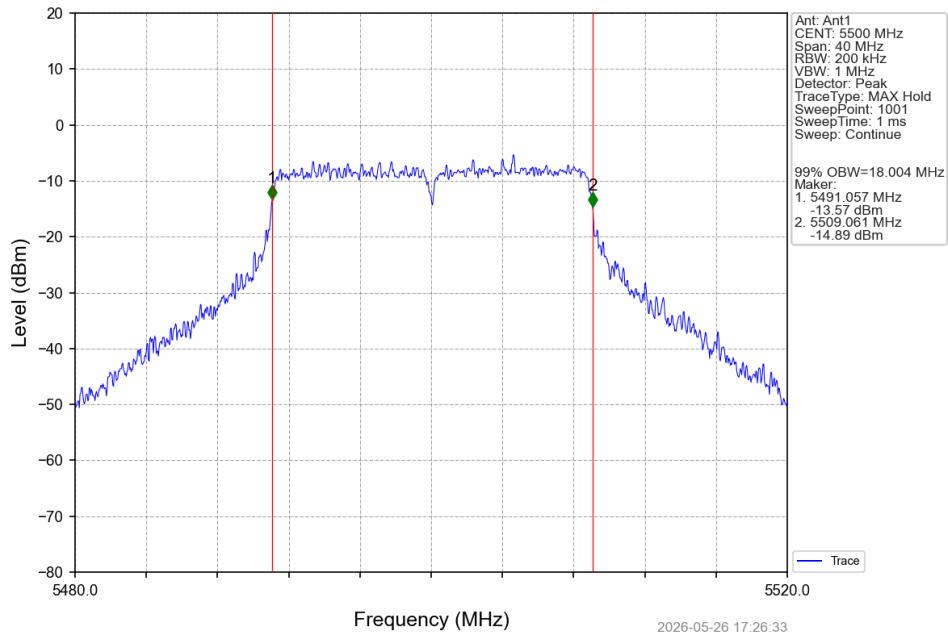
802.11n(HT20) MCH 5300MHz Ant1 NTN



802.11n(HT20)_HCH_5320MHz_Ant1_NTN



802.11n(HT20) LCH 5500MHz Ant1 NTN



802.11n(HT20)_MCH_5580MHz_Ant1_NTN

