

## Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221100047404

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## 10 Appendix

## 1. Duty Cycle

## 1.1 Ant1

## 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	MIMO	5180	2.066	2.101	98.33	0.07	0.03
		5200	2.066	2.101	98.33	0.07	0.00
		5240	2.066	2.101	98.33	0.07	0.00
		5260	2.066	2.101	98.33	0.07	0.00
		5300	2.066	2.101	98.33	0.07	0.00
		5320	2.066	2.101	98.33	0.07	0.00
		5500	2.066	2.101	98.33	0.07	0.00
		5580	2.066	2.101	98.33	0.07	0.00
		5700	2.066	2.101	98.33	0.07	0.00
		5745	2.066	2.101	98.33	0.07	0.00
		5785	2.065	2.101	98.29	0.08	0.00
		5825	2.065	2.101	98.29	0.08	0.00
802.11n (HT20)	MIMO	5180	1.925	1.960	98.21	0.08	0.00
		5200	1.925	1.961	98.16	0.08	0.00
		5240	1.926	1.961	98.22	0.08	0.03
		5260	1.924	1.961	98.11	0.08	0.07
		5300	1.926	1.961	98.22	0.08	0.03
		5320	1.925	1.961	98.16	0.08	0.03
		5500	1.925	1.961	98.16	0.08	0.03
		5580	1.926	1.962	98.17	0.08	0.03
		5700	1.925	1.960	98.21	0.08	0.00
		5745	1.926	1.961	98.22	0.08	0.03
		5785	1.925	1.960	98.21	0.08	0.03
		5825	1.925	1.960	98.21	0.08	0.03
802.11n (HT40)	MIMO	5190	0.950	0.984	96.54	0.15	0.00
		5230	0.950	0.984	96.54	0.15	0.03
		5270	0.950	0.984	96.54	0.15	0.00
		5310	0.950	0.984	96.54	0.15	0.03



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		5510	0.950	0.984	96.54	0.15	0.03
		5550	0.950	0.984	96.54	0.15	0.03
		5670	0.949	0.984	96.44	0.16	0.03
		5755	0.949	0.984	96.44	0.16	0.00
		5795	0.949	0.984	96.44	0.16	0.00
802.11ac (VHT20)	MIMO	5180	1.933	1.969	98.17	0.08	0.03
		5200	1.933	1.968	98.22	0.08	0.00
		5240	1.934	1.970	98.17	0.08	0.03
		5260	1.934	1.969	98.22	0.08	0.03
		5300	1.934	1.970	98.17	0.08	0.03
		5320	1.934	1.970	98.17	0.08	0.03
		5500	1.934	1.969	98.22	0.08	0.00
		5580	1.933	1.969	98.17	0.08	0.00
		5700	1.934	1.969	98.22	0.08	0.03
		5745	1.934	1.969	98.22	0.08	0.03
		5785	1.934	1.969	98.22	0.08	0.03
		5825	1.933	1.969	98.17	0.08	0.03
802.11ac (VHT40)	MIMO	5190	0.954	0.988	96.56	0.15	0.00
		5230	0.953	0.988	96.46	0.16	0.00
		5270	0.954	0.988	96.56	0.15	0.00
		5310	0.954	0.988	96.56	0.15	0.03
		5510	0.954	0.988	96.56	0.15	0.00
		5550	0.954	0.988	96.56	0.15	0.03
		5670	0.954	0.988	96.56	0.15	0.00
		5755	0.953	0.988	96.46	0.16	0.03
		5795	0.954	0.988	96.56	0.15	0.03
802.11ac (VHT80)	MIMO	5210	0.465	0.500	93.00	0.32	0.07
		5290	0.465	0.500	93.00	0.32	0.03
		5530	0.465	0.500	93.00	0.32	0.03
		5610	0.465	0.500	93.00	0.32	0.03
		5775	0.953	0.988	96.46	0.16	0.00



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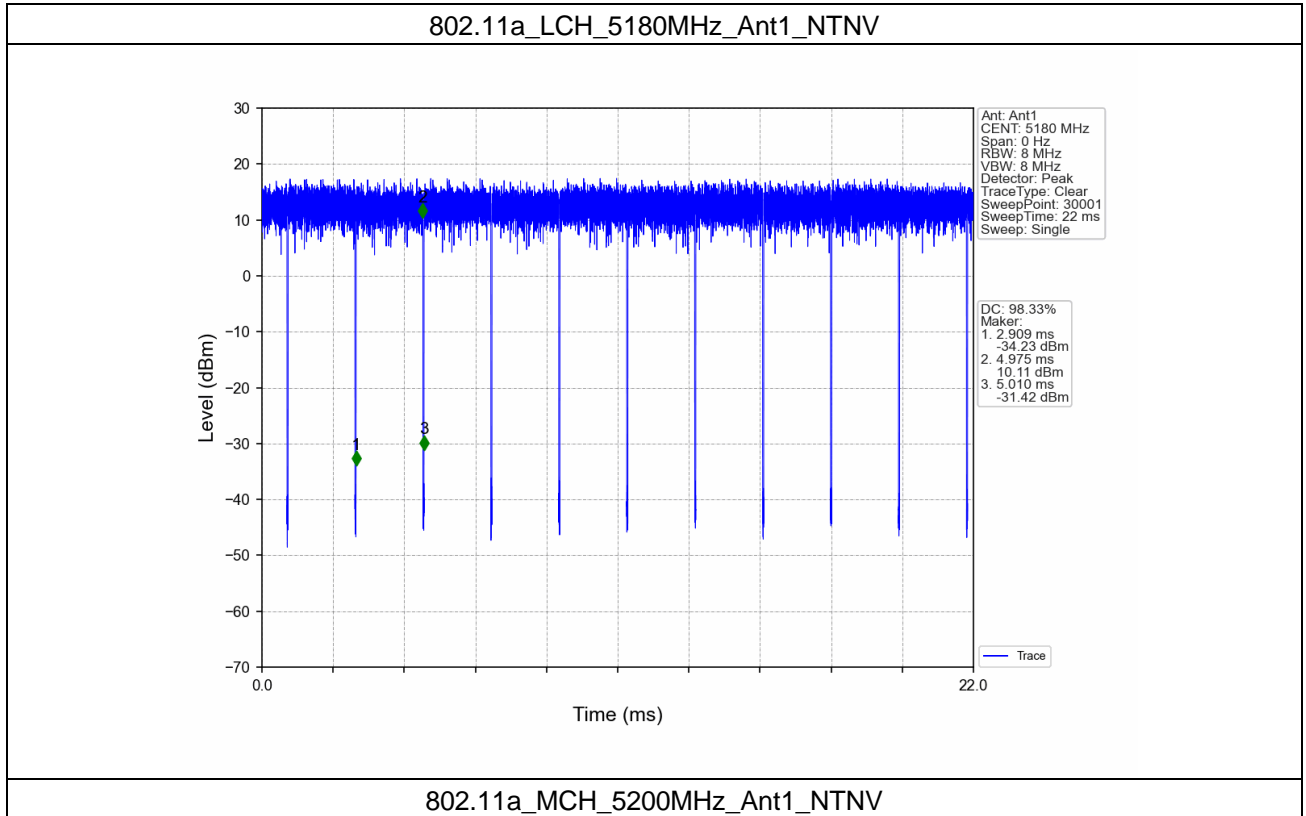
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### 1.1.2 Test Graph



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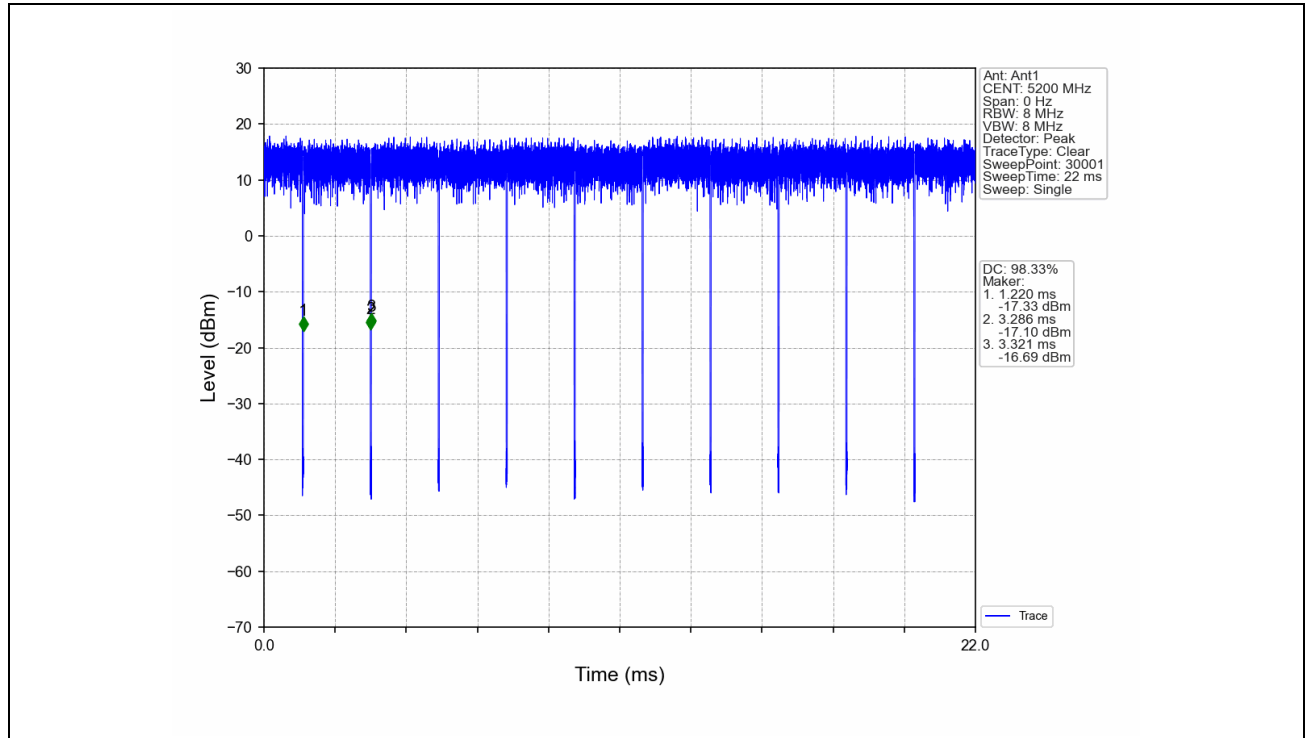
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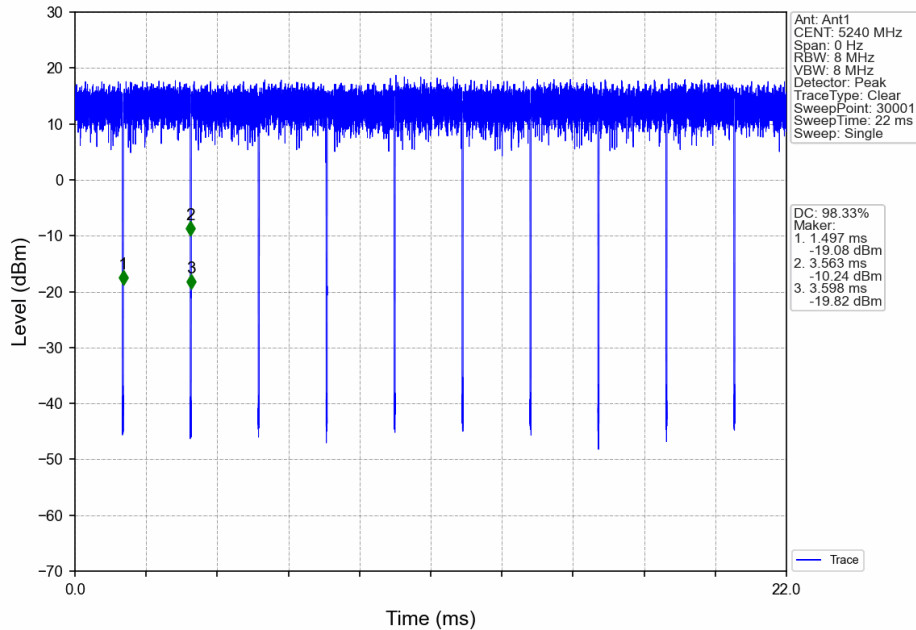
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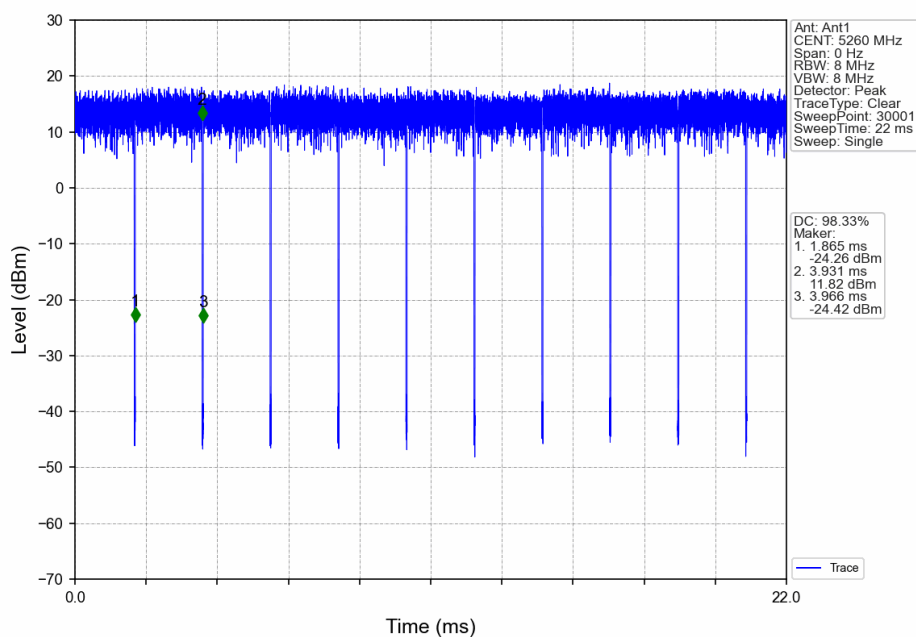
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_LCH\_5260MHz\_Ant1\_NTNV



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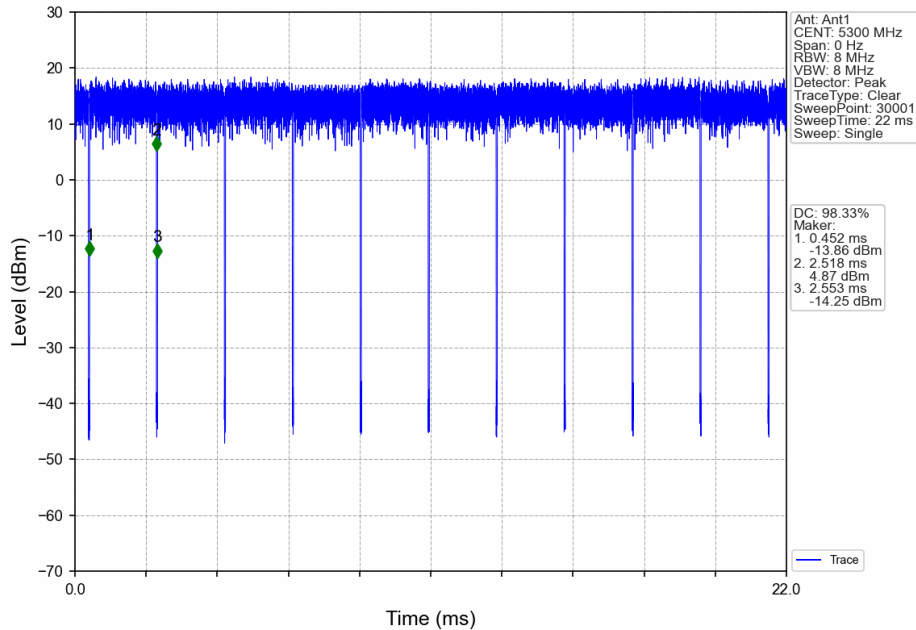
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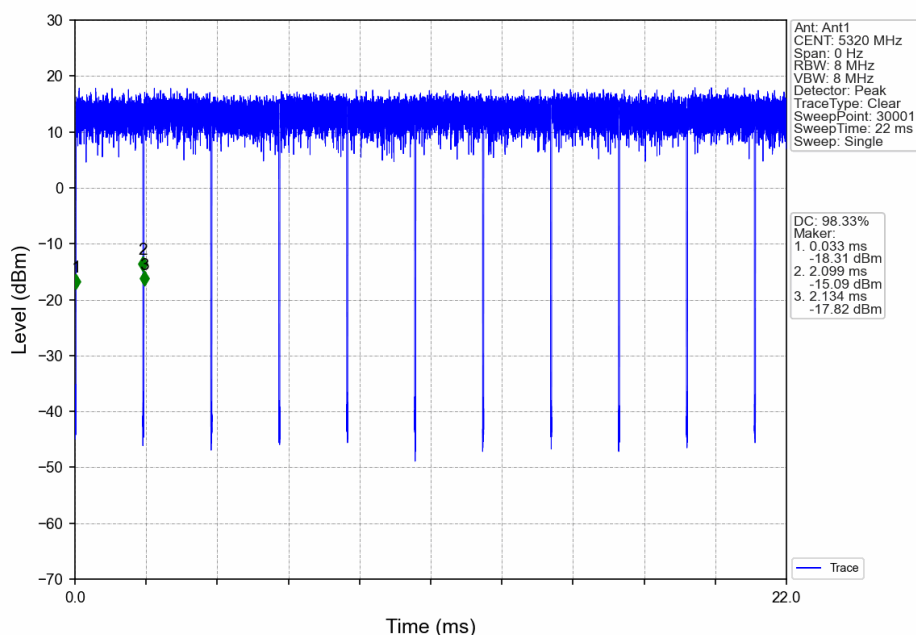
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802.11a\_MCH\_5300MHz\_Ant1\_NTNV



802.11a\_HCH\_5320MHz\_Ant1\_NTNV



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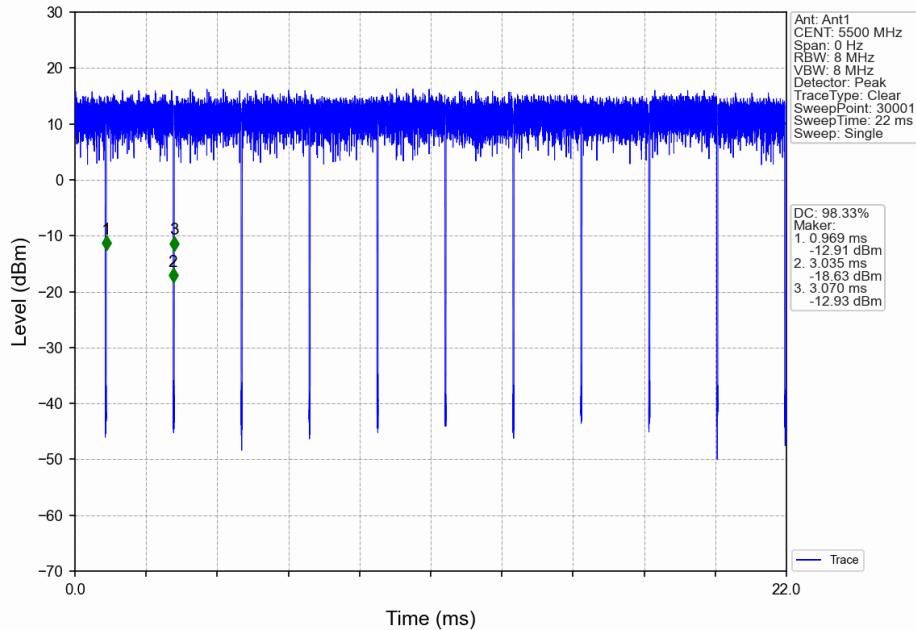
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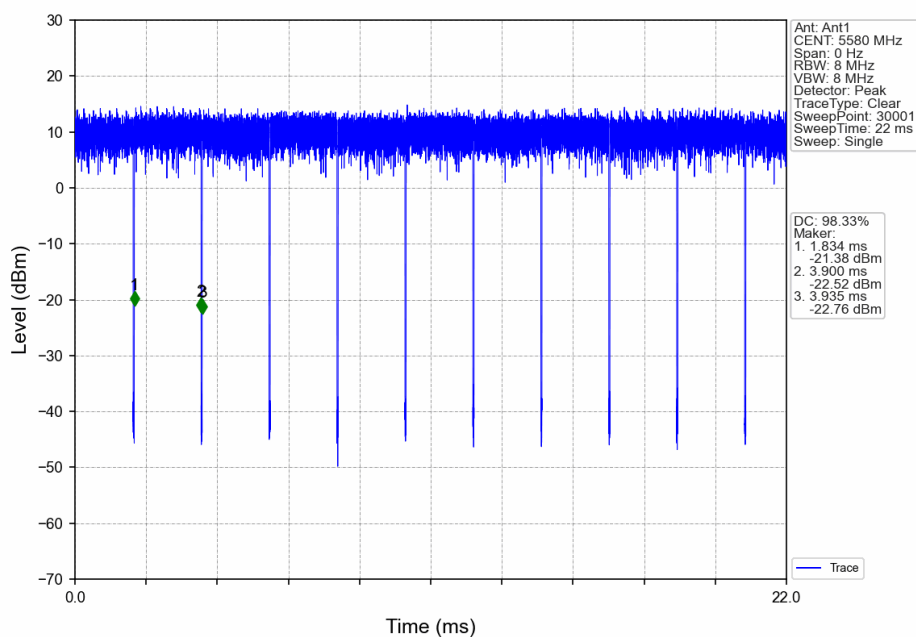
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802.11a\_LCH\_5500MHz\_Ant1\_NTNV



802.11a\_MCH\_5580MHz\_Ant1\_NTNV



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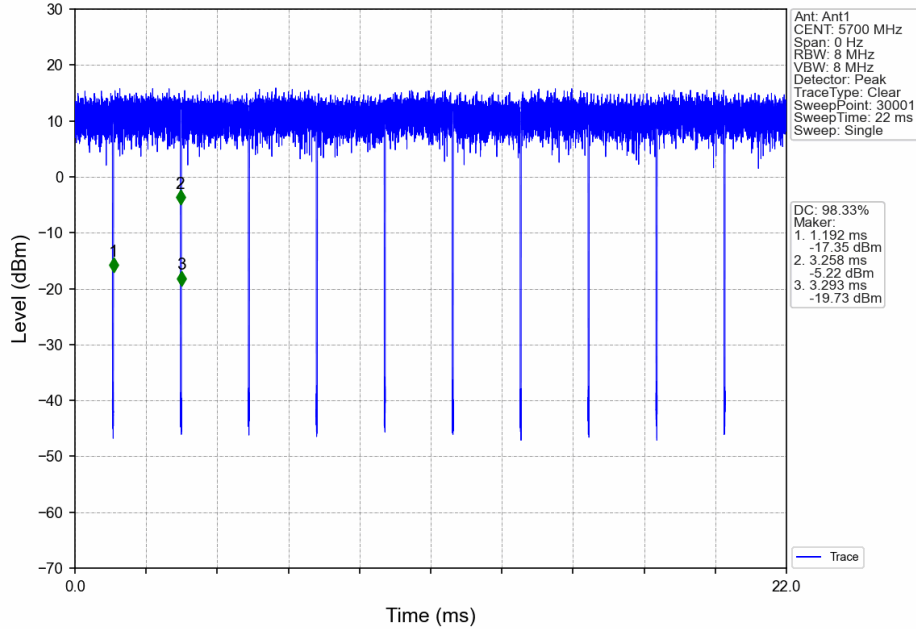
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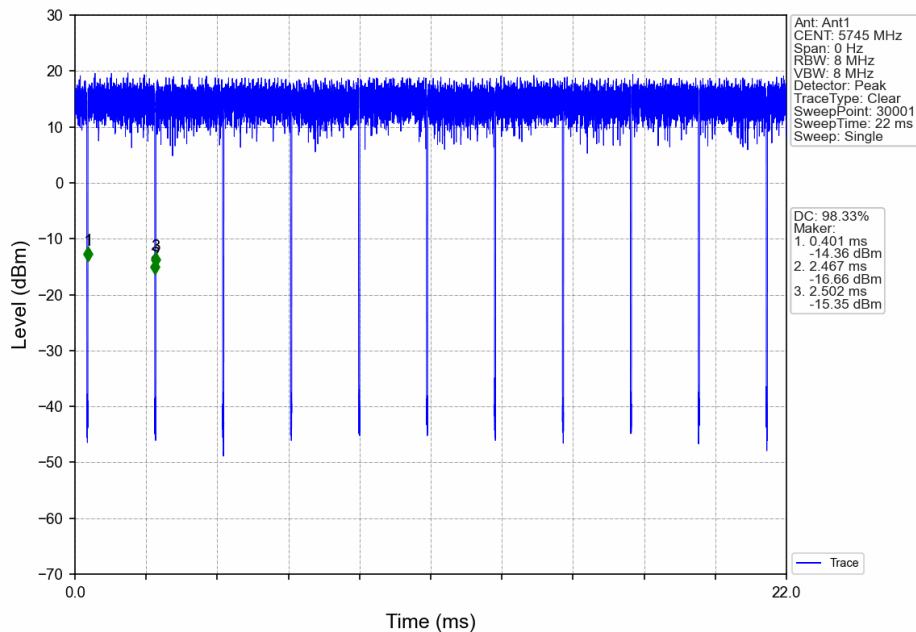
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802.11a\_LCH\_5745MHz\_Ant1\_NTNV



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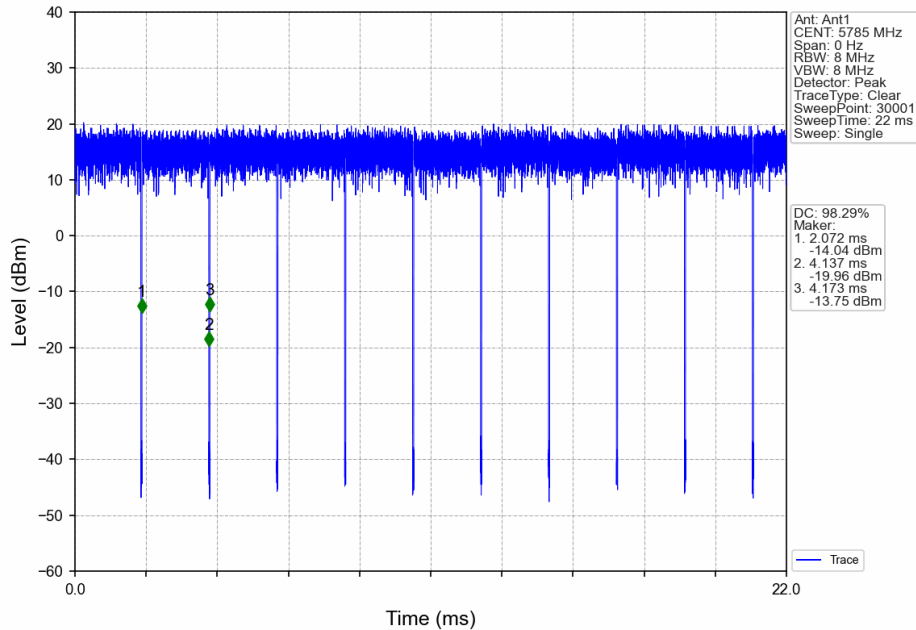
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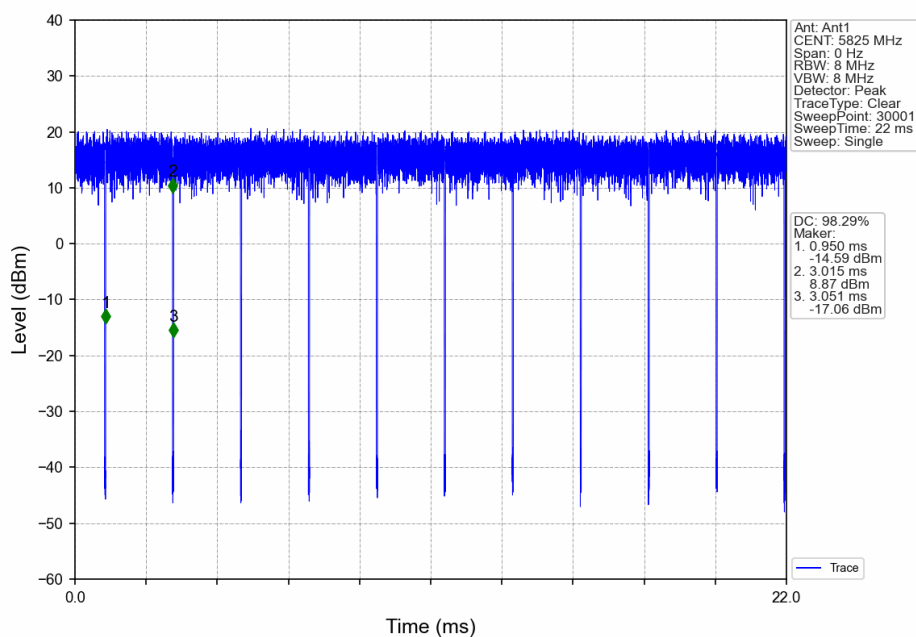
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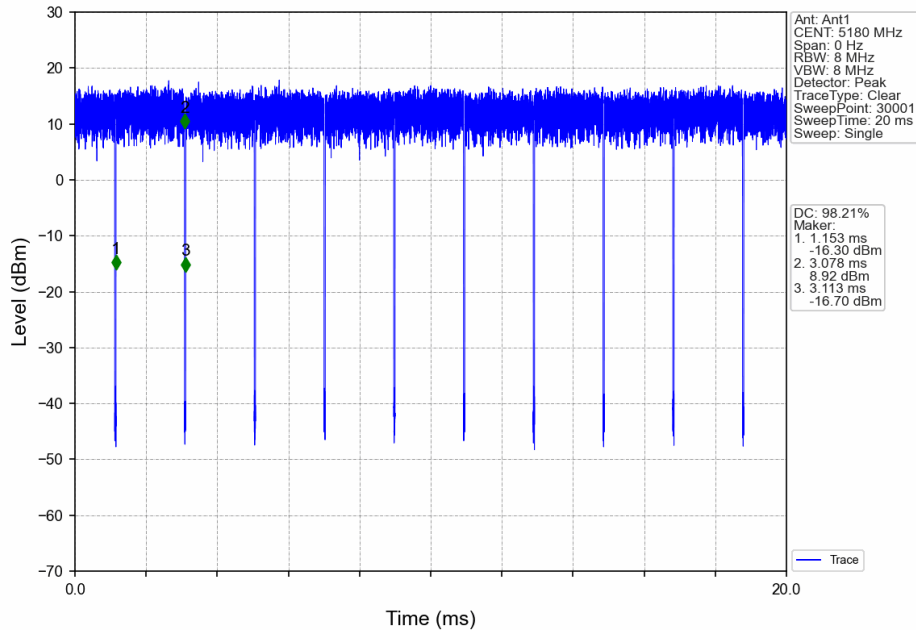
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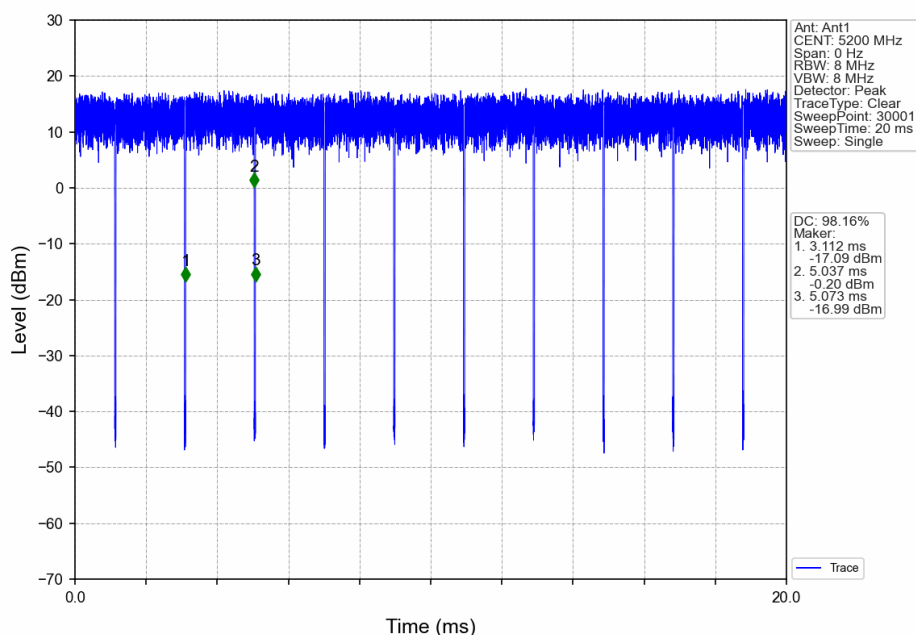
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### 802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



### 802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



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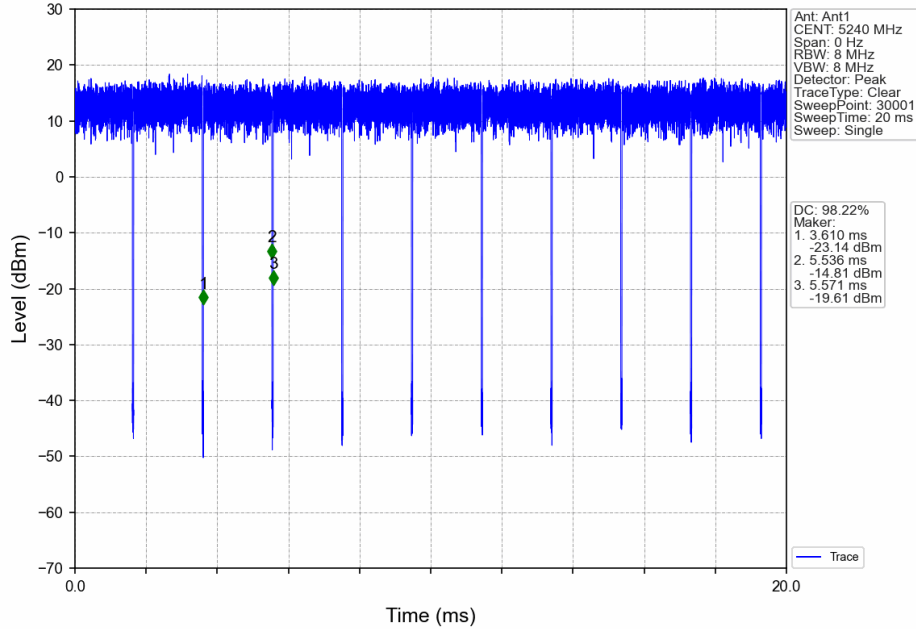
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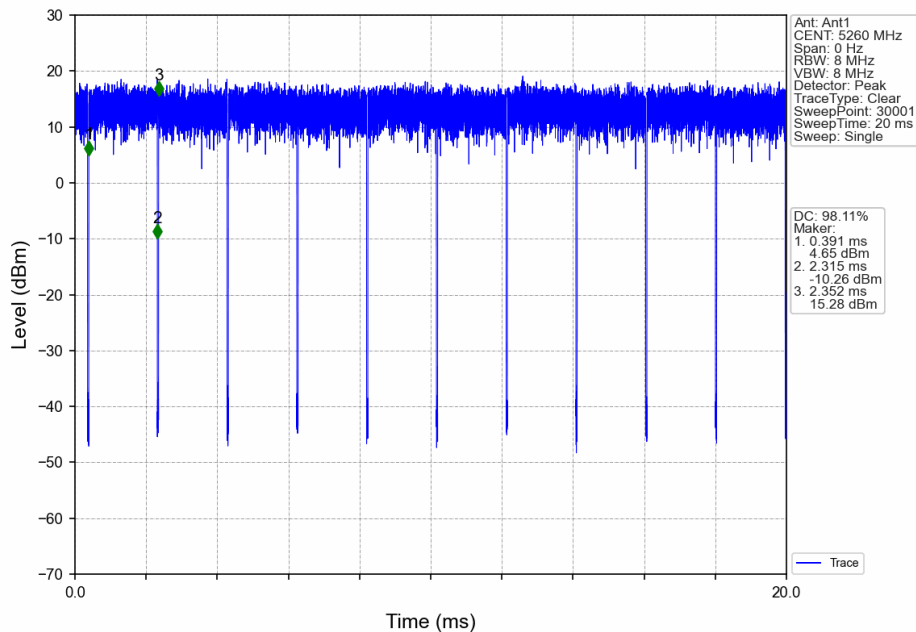
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802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTNV



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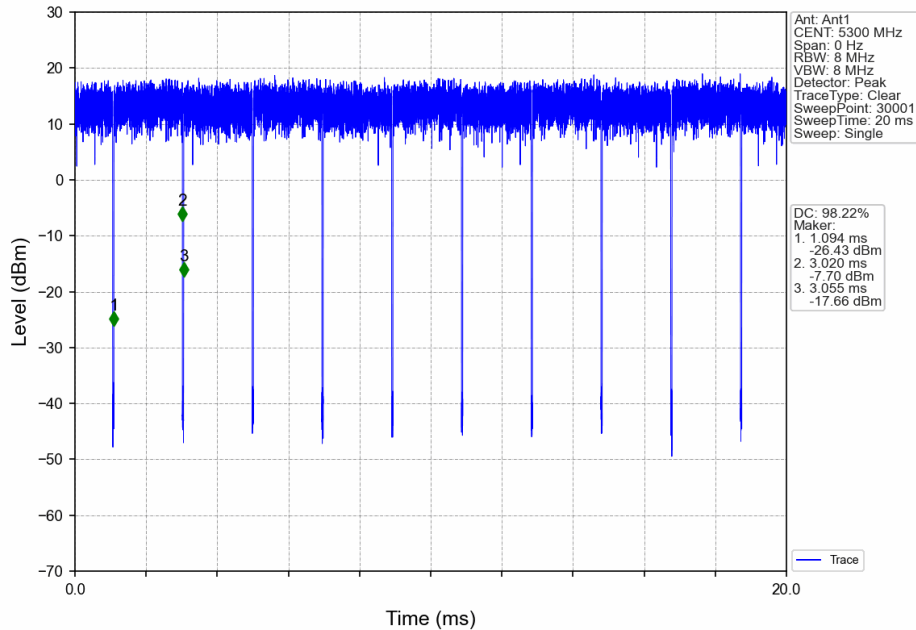
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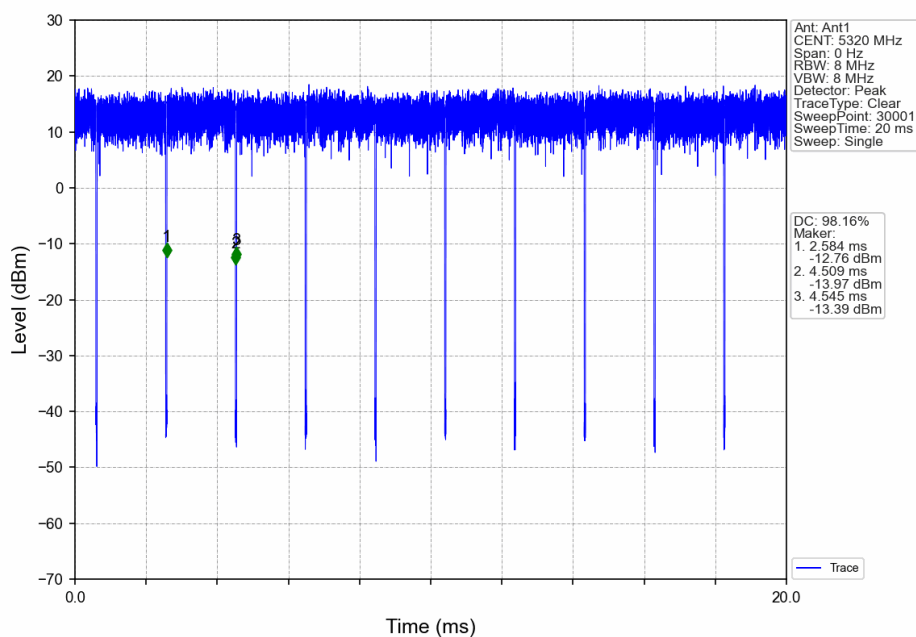
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802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



802.11n(HT20)\_HCH\_5320MHz\_Ant1\_NTNV



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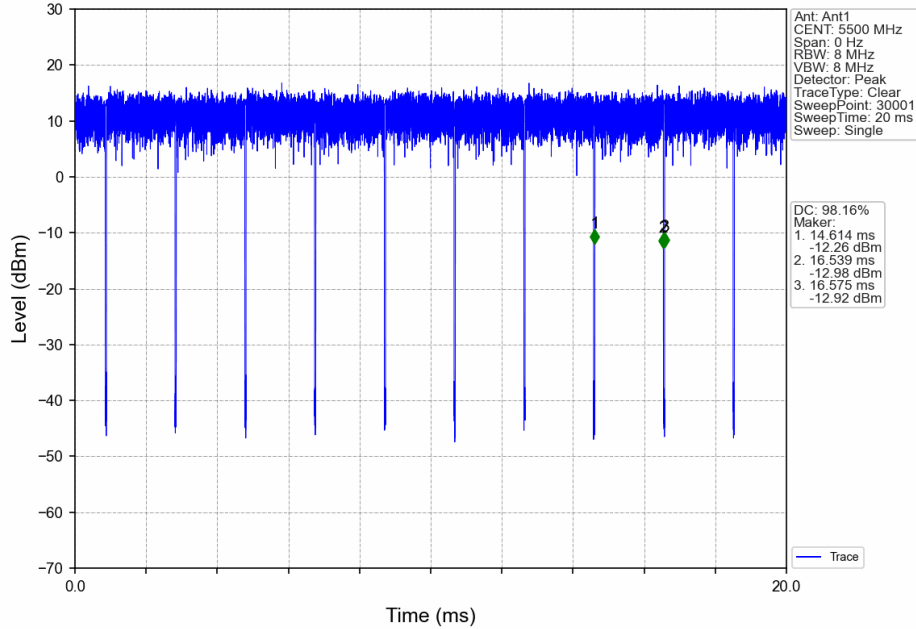
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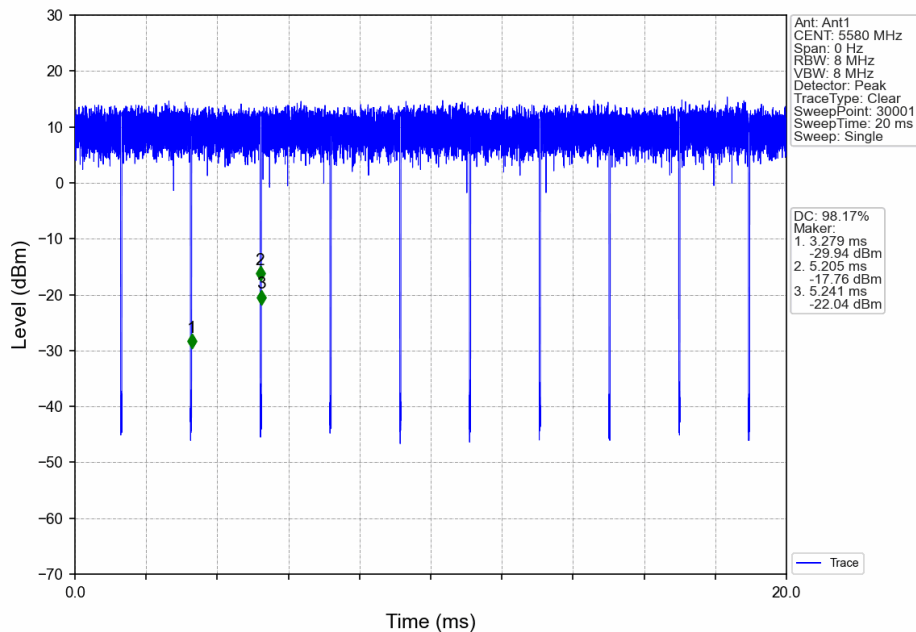
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802.11n(HT20)\_LCH\_5500MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5580MHz\_Ant1\_NTNV



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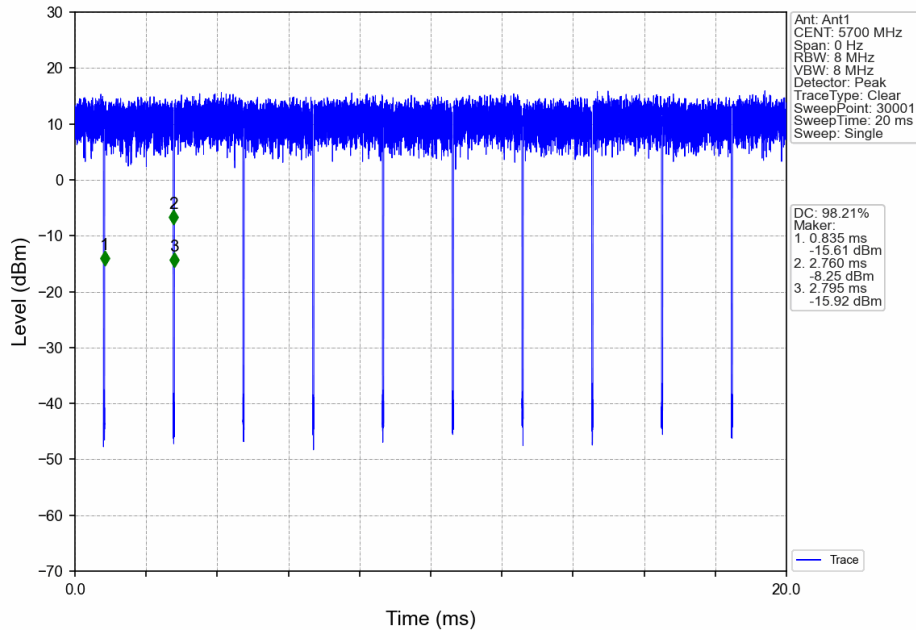
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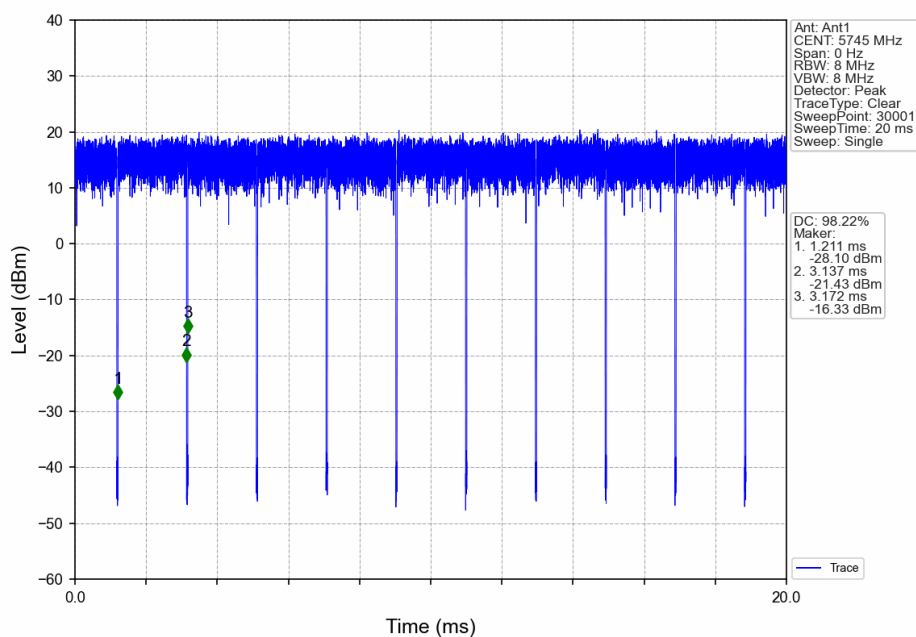
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802.11n(HT20)\_HCH\_5700MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



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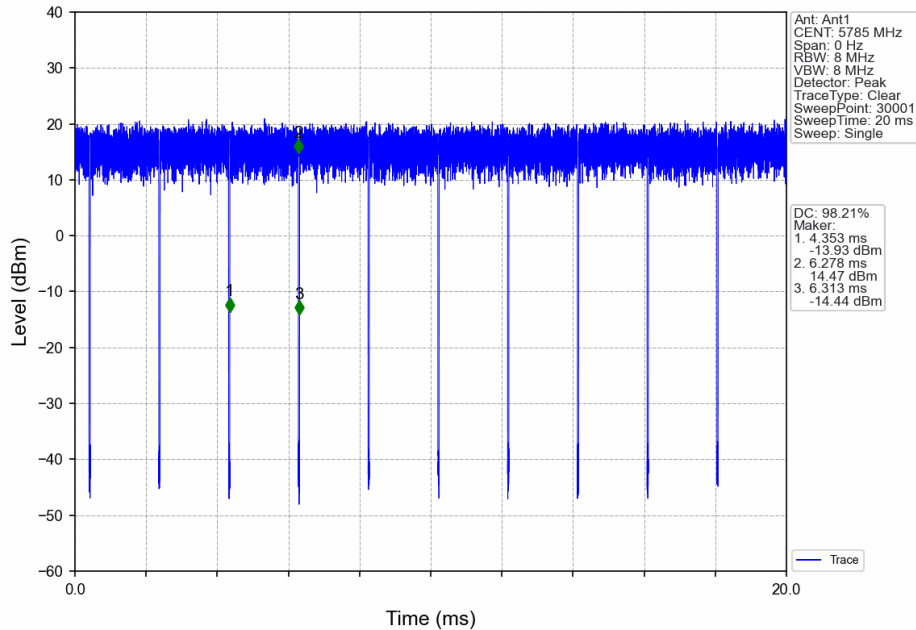
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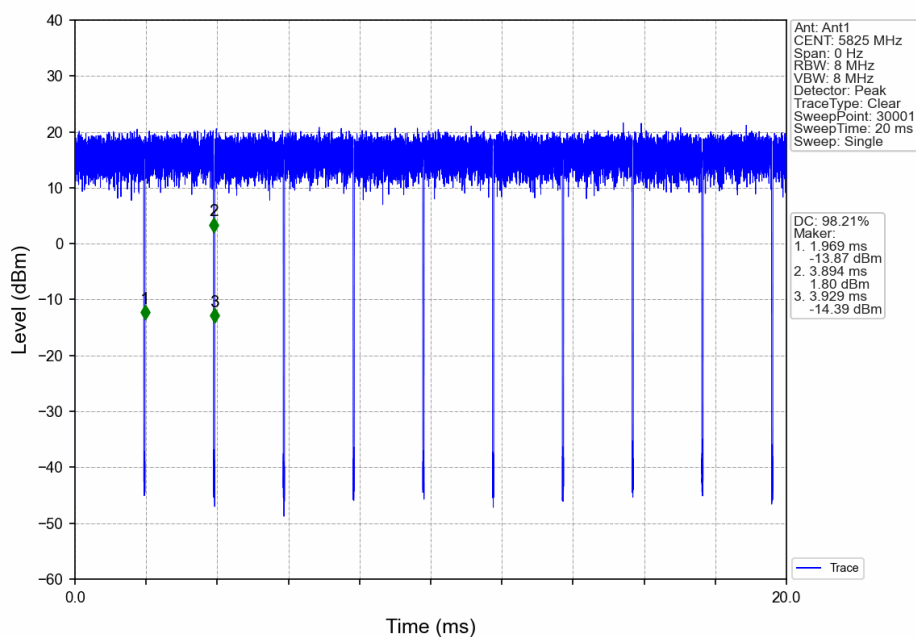
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### 802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



### 802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



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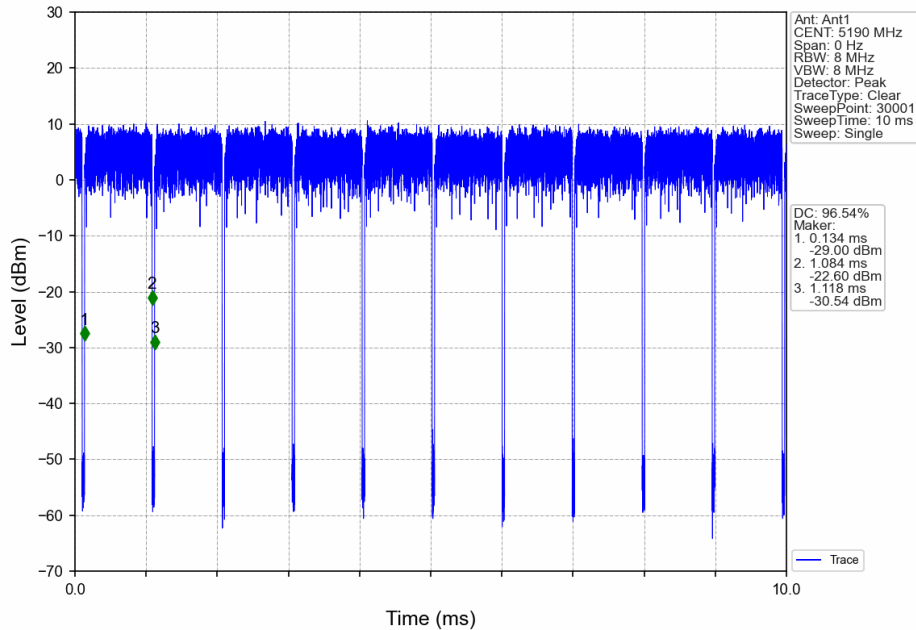
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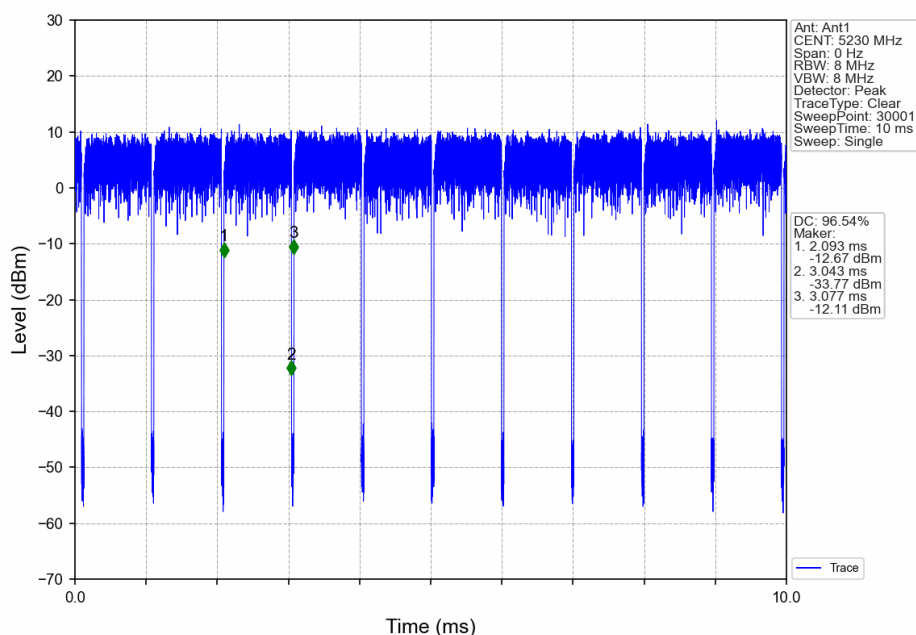
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802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



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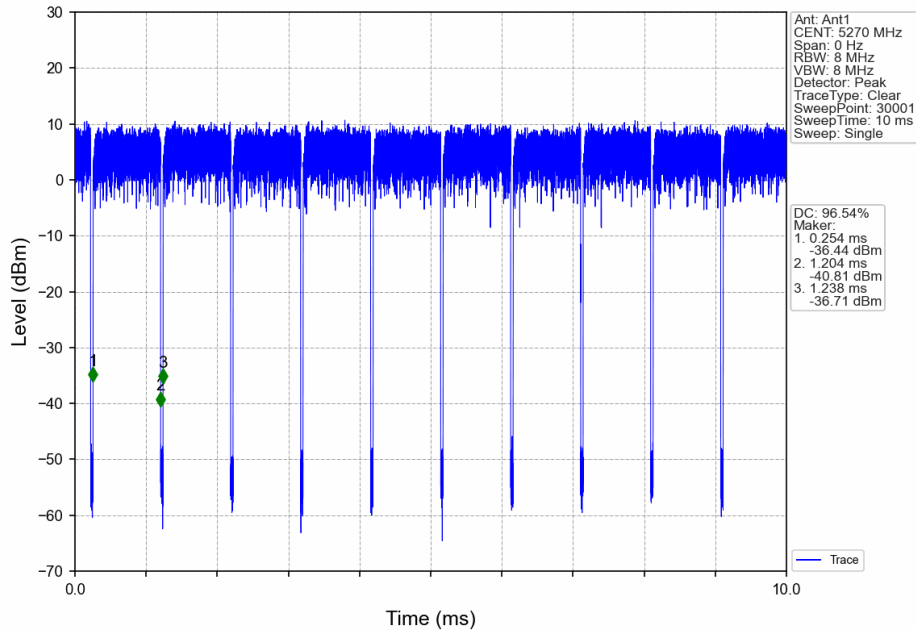
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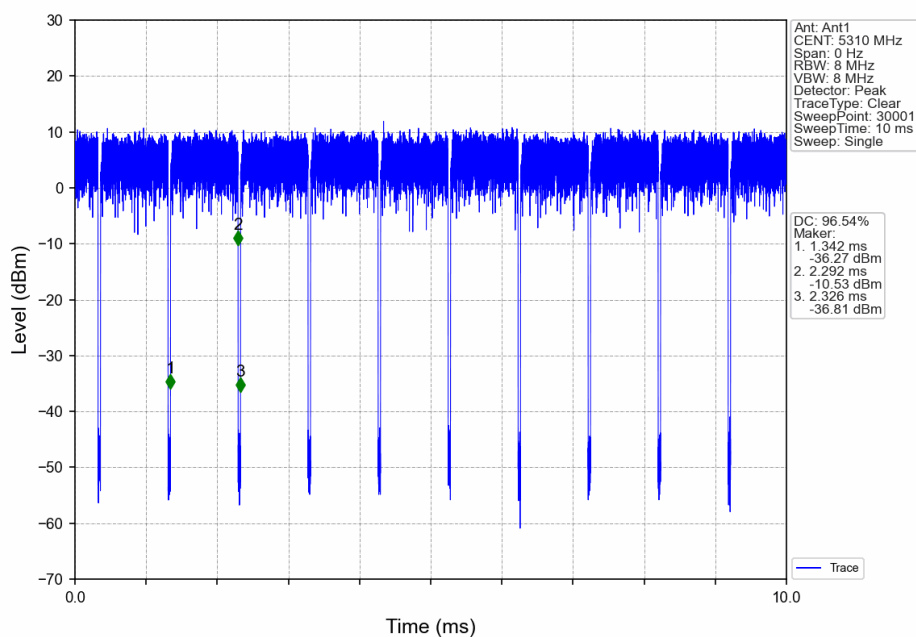
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802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV



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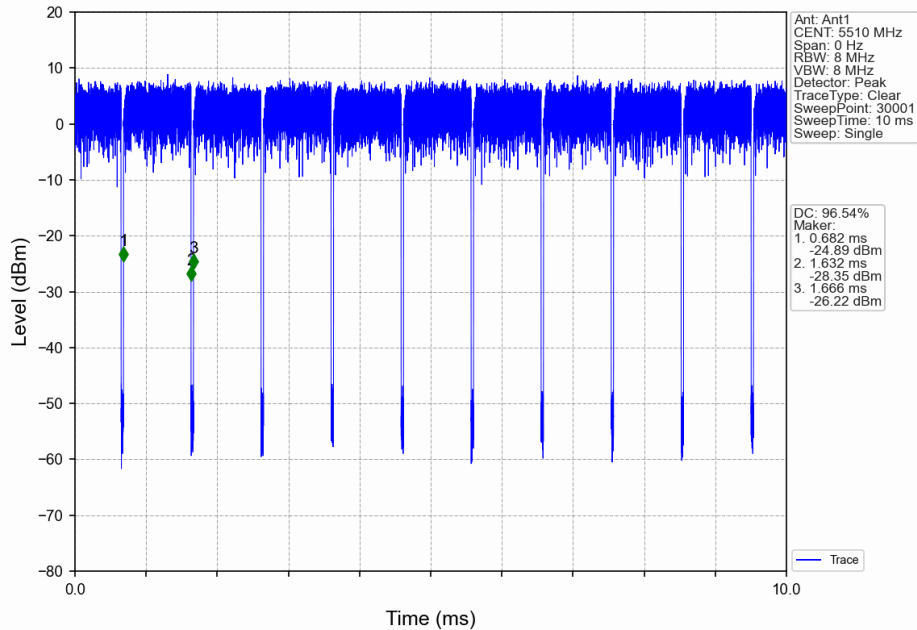
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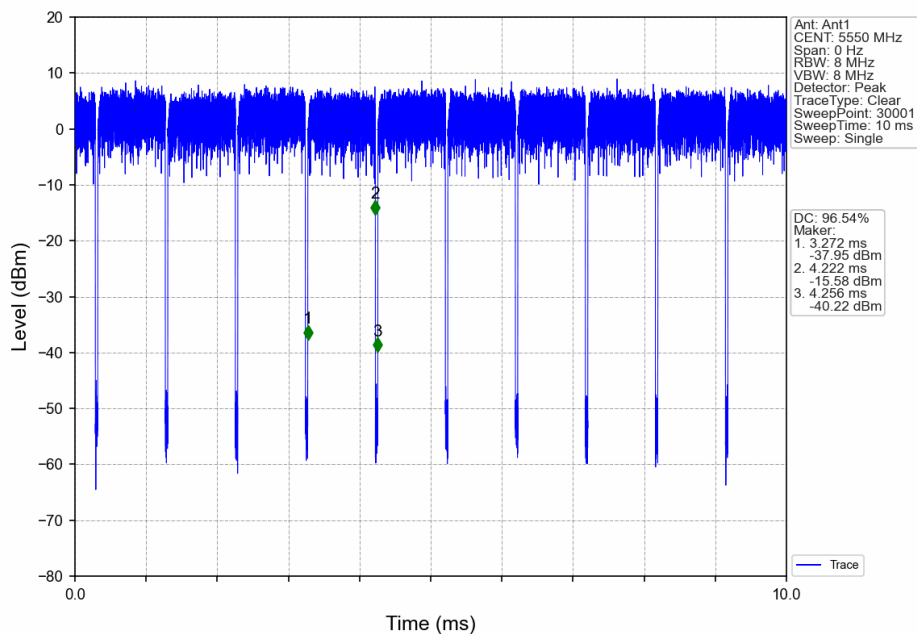
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802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV



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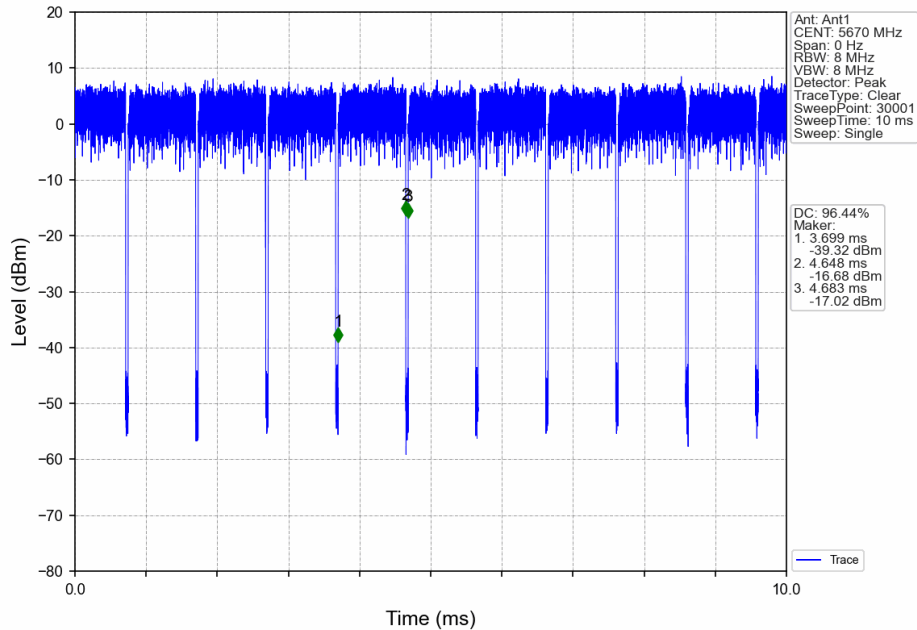
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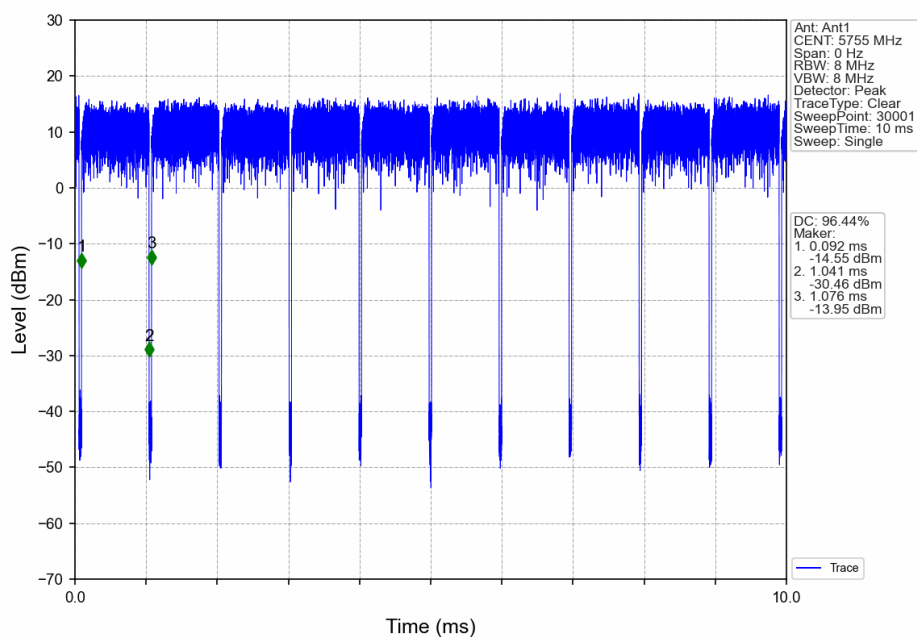
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802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



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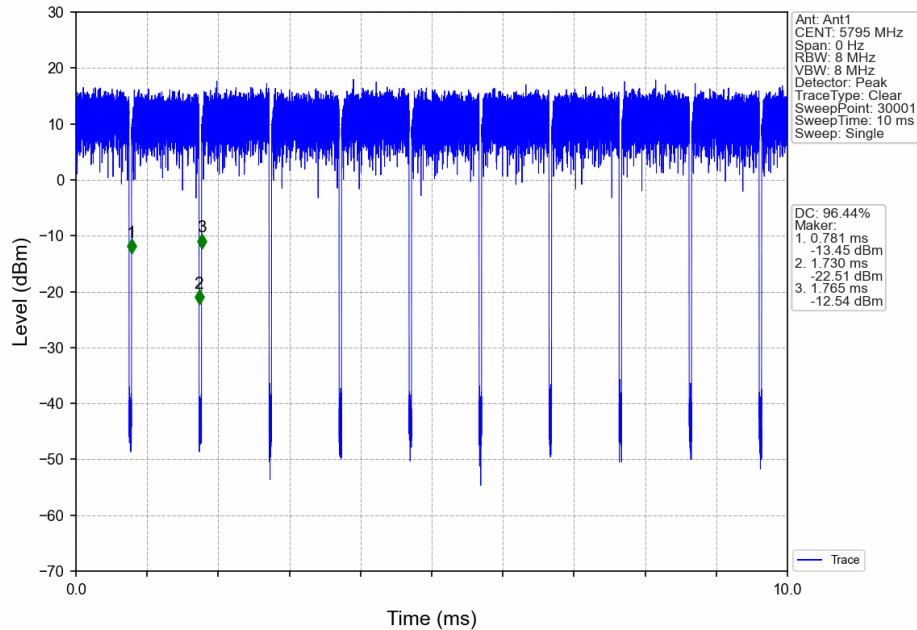
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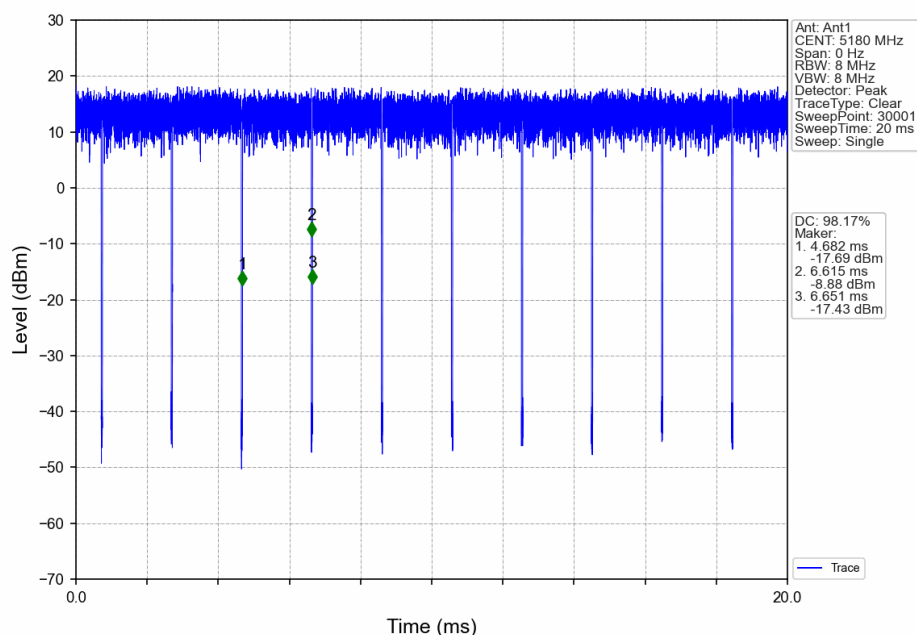
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802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



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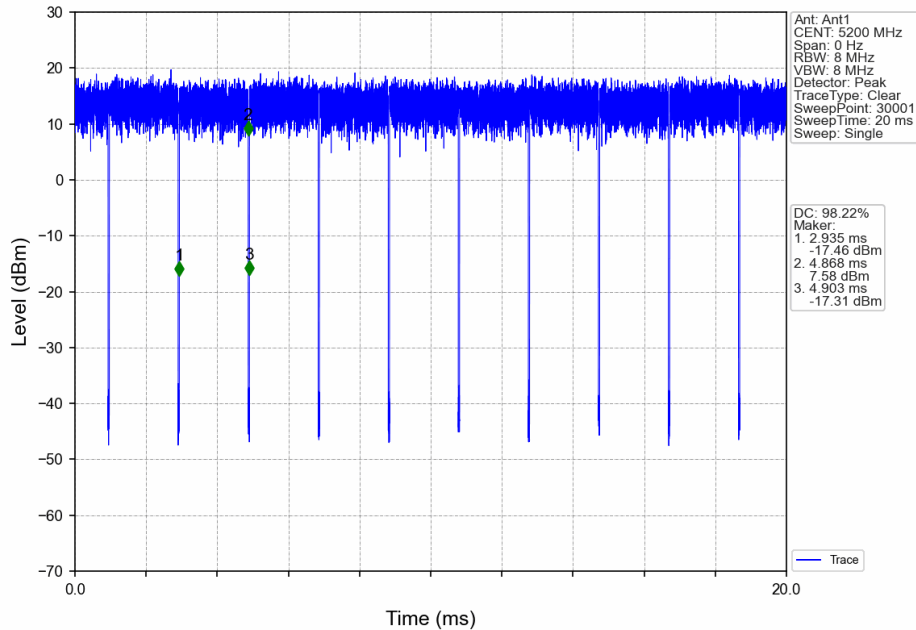
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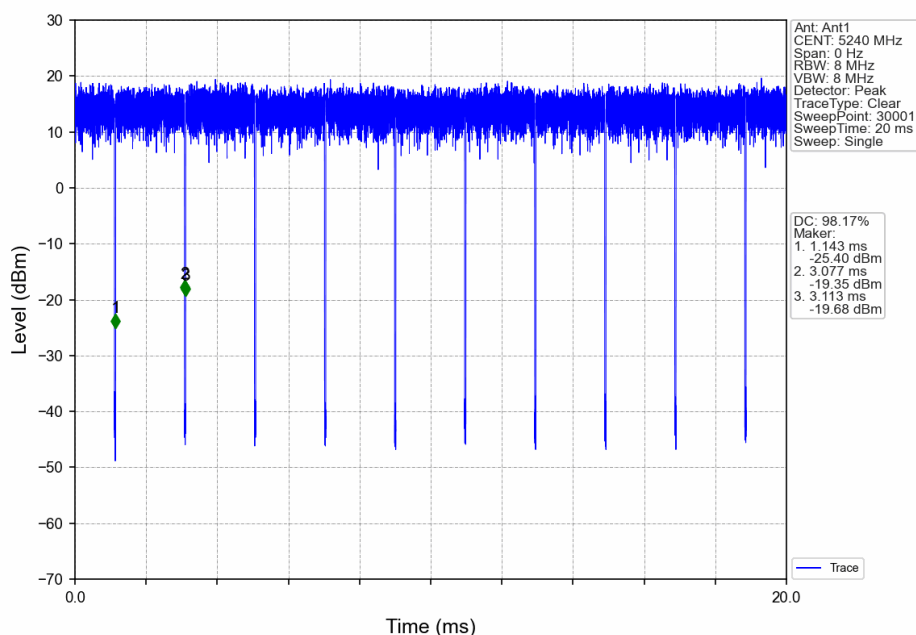
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802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



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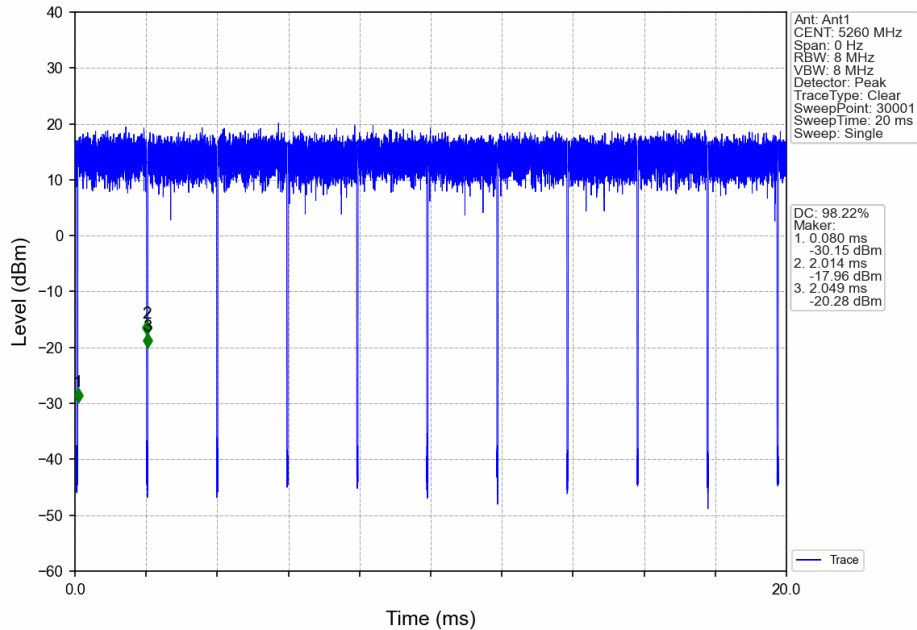
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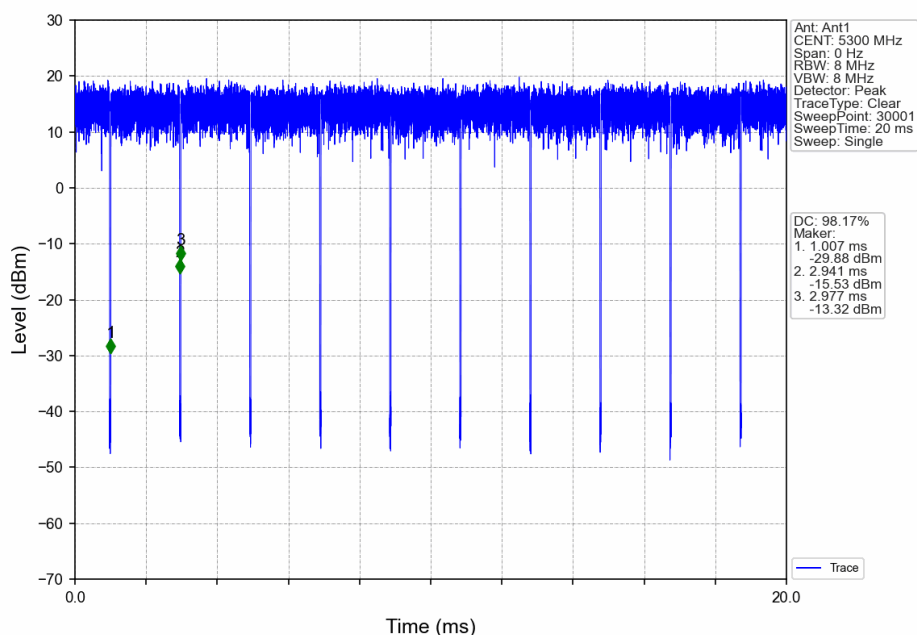
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802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5300MHz\_Ant1\_NTNV



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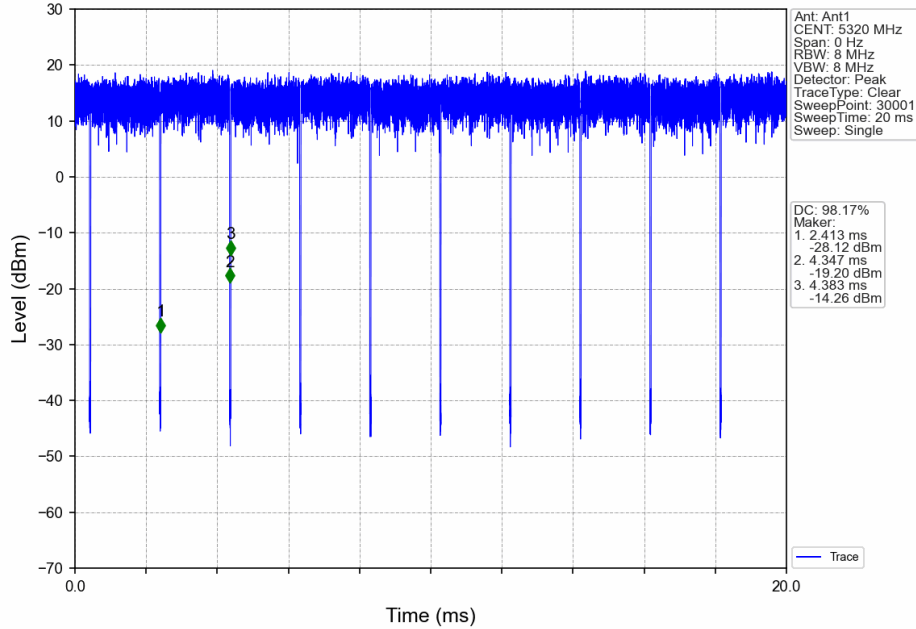
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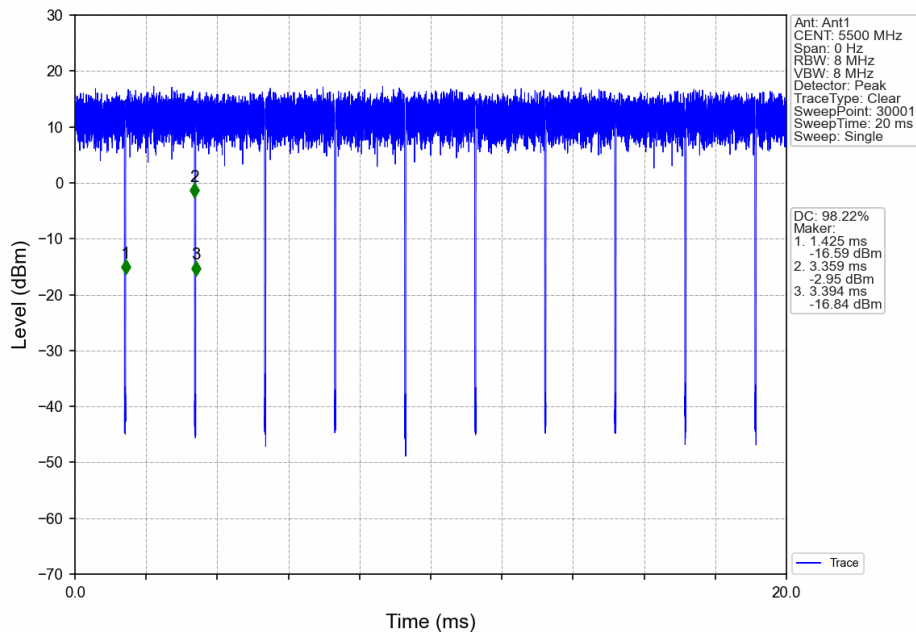
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802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV



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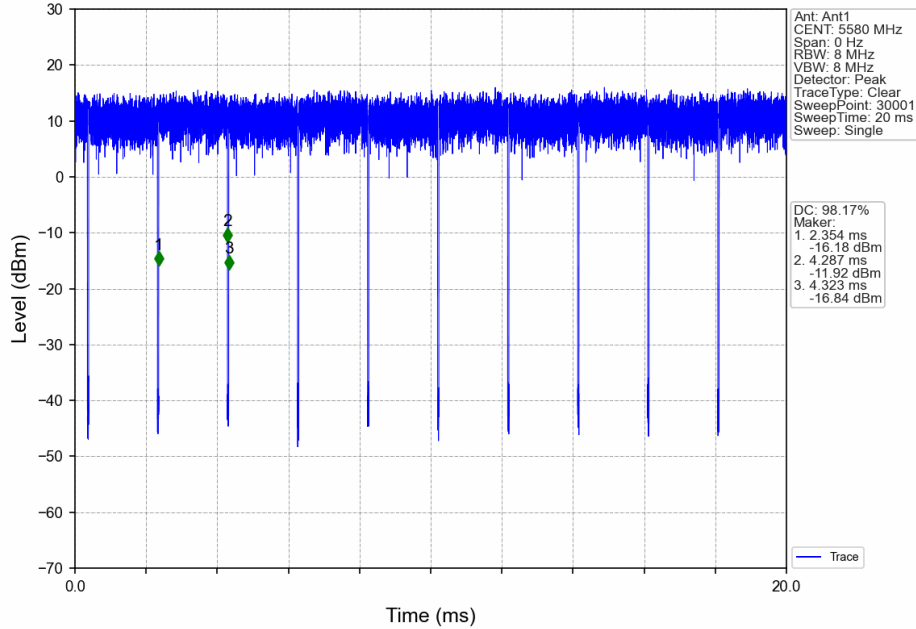
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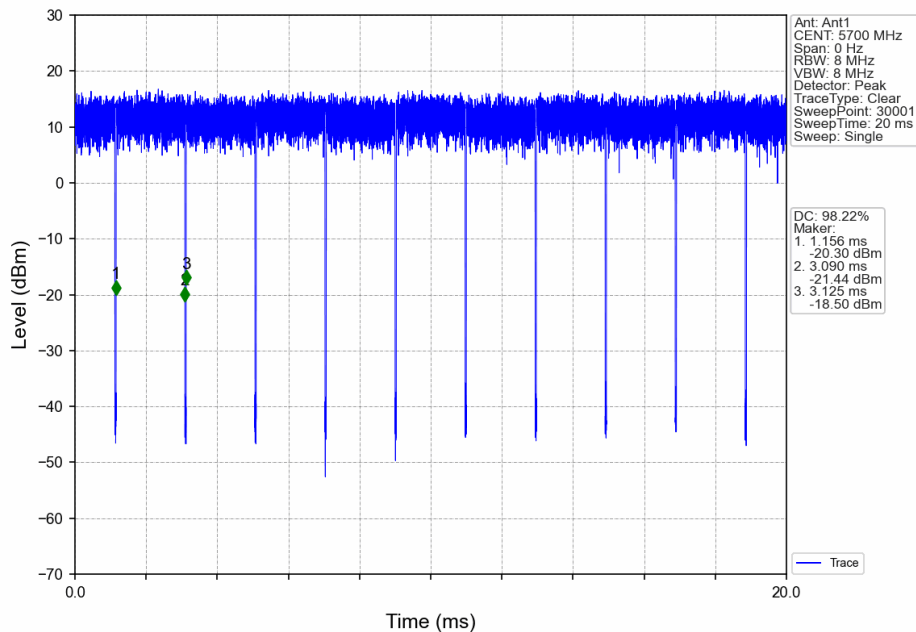
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802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV



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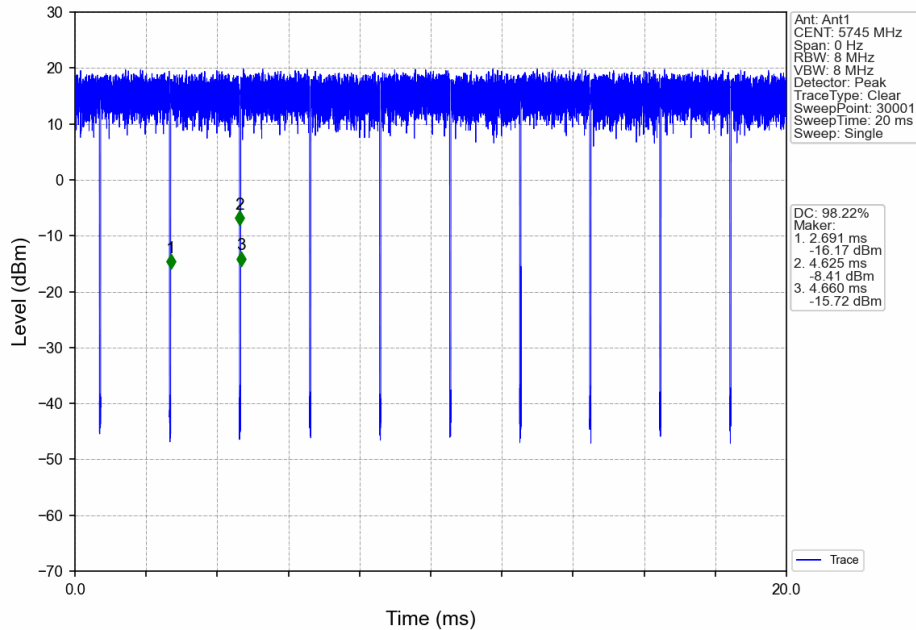
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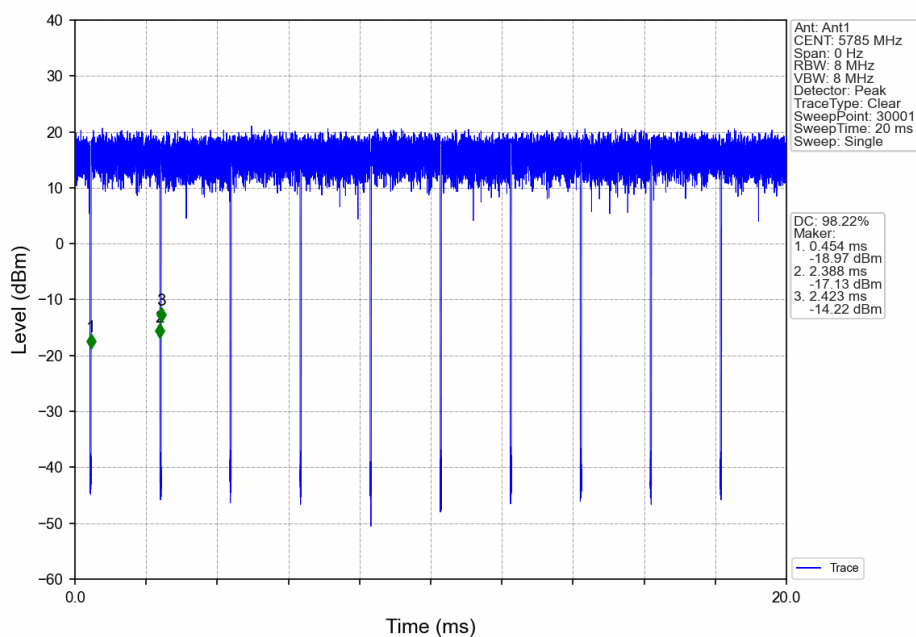
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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



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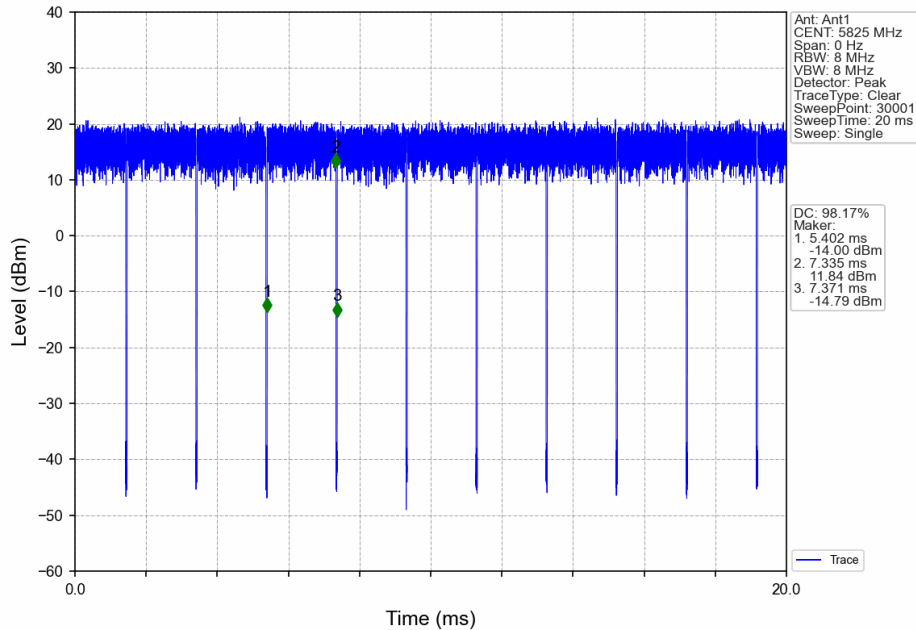
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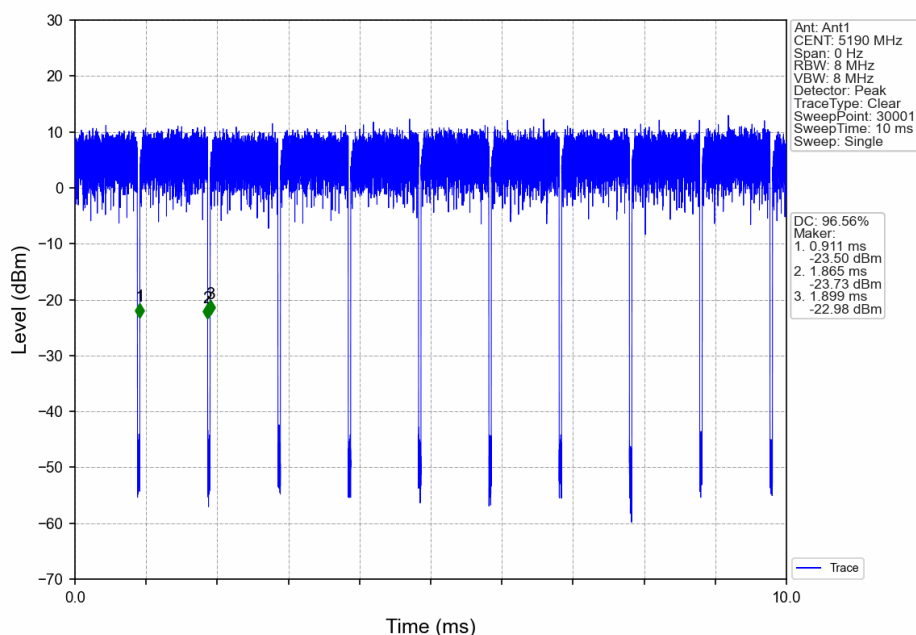
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802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



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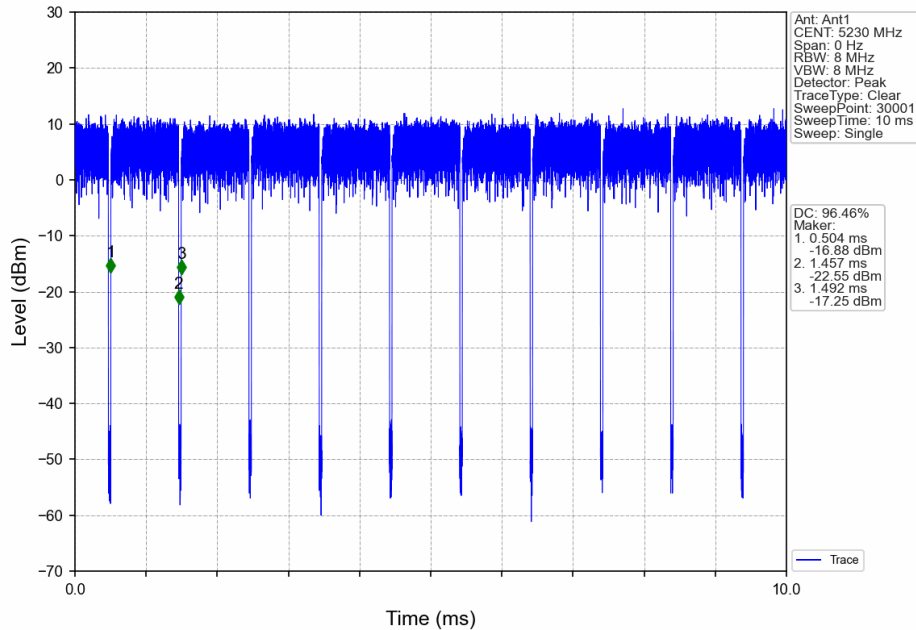
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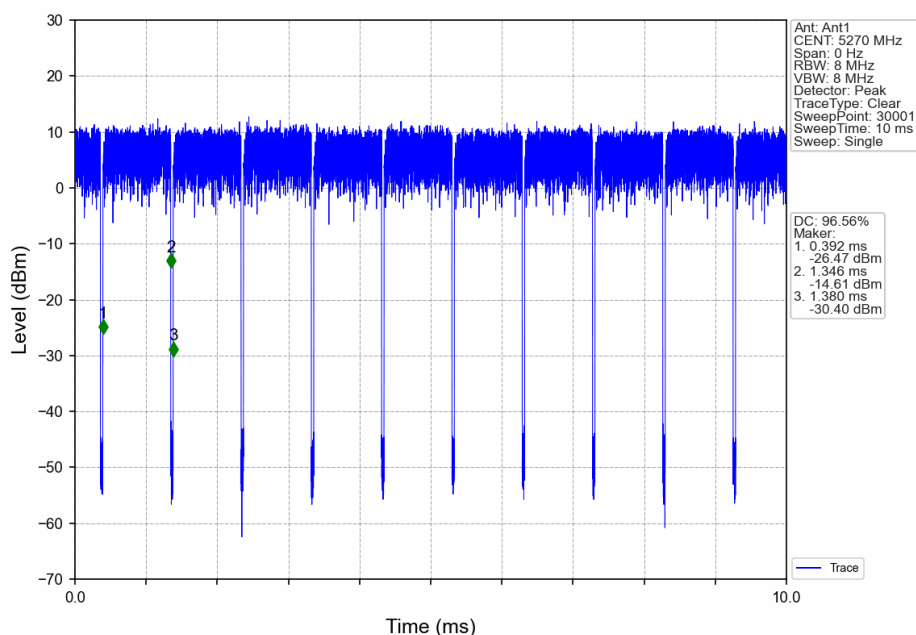
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



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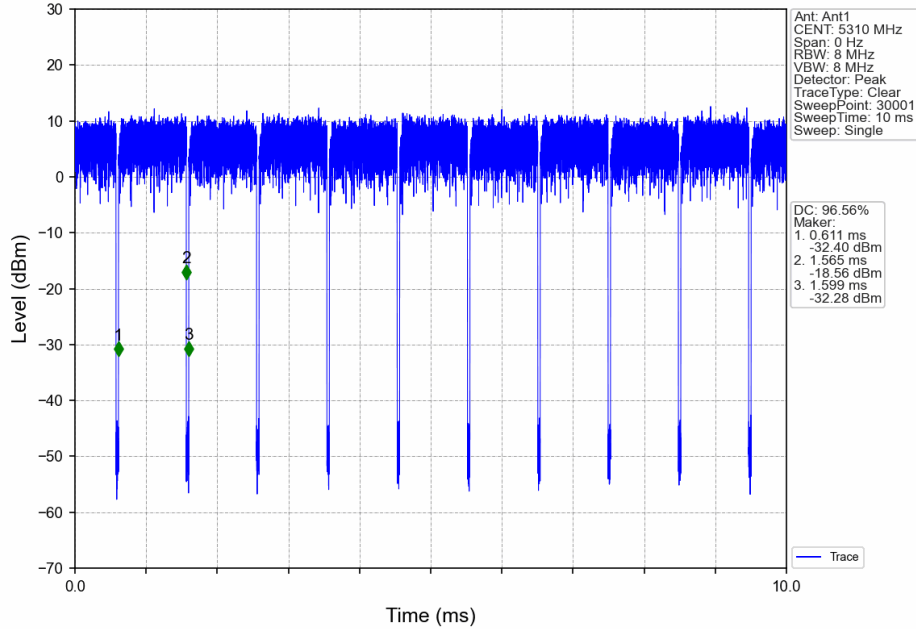
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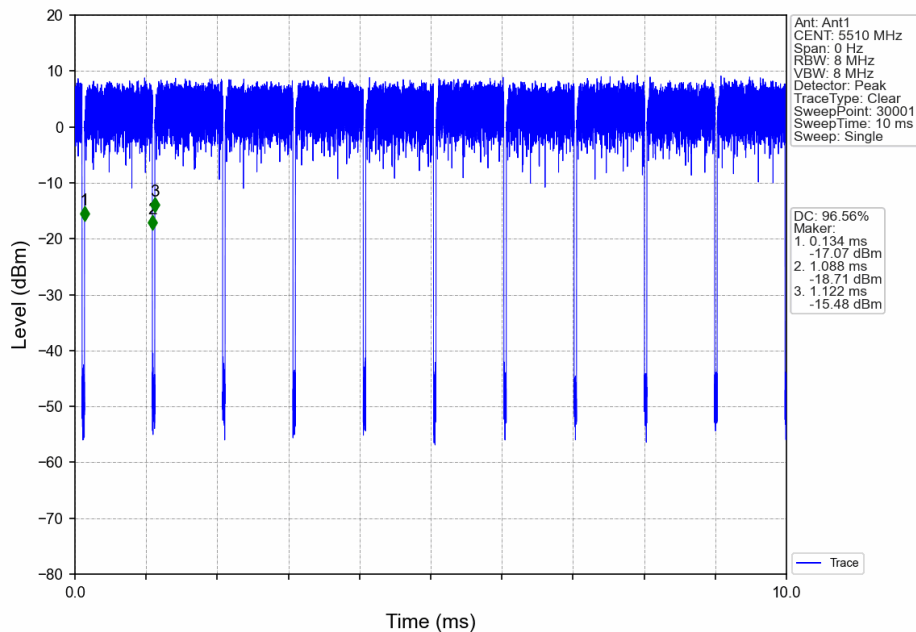
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### 802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



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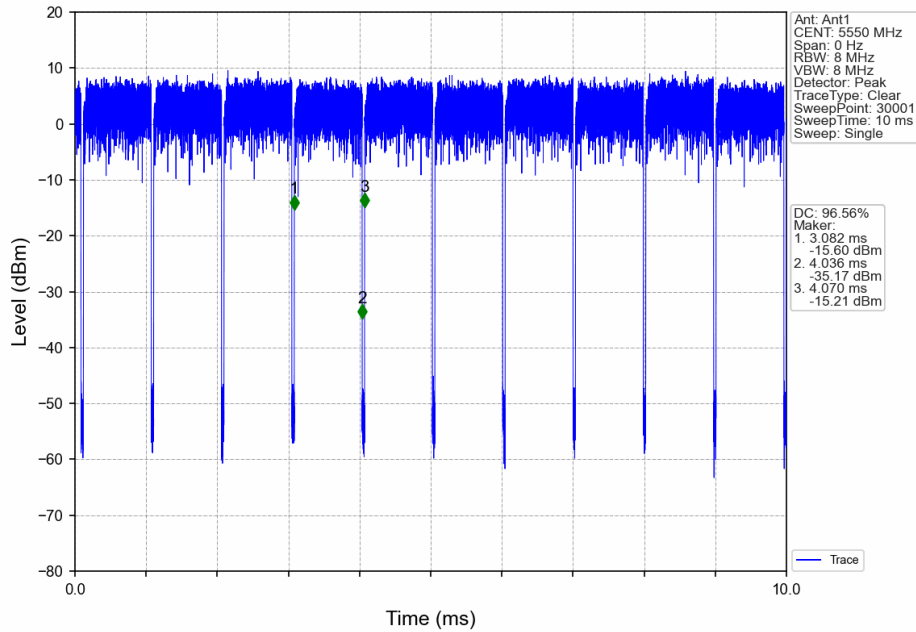
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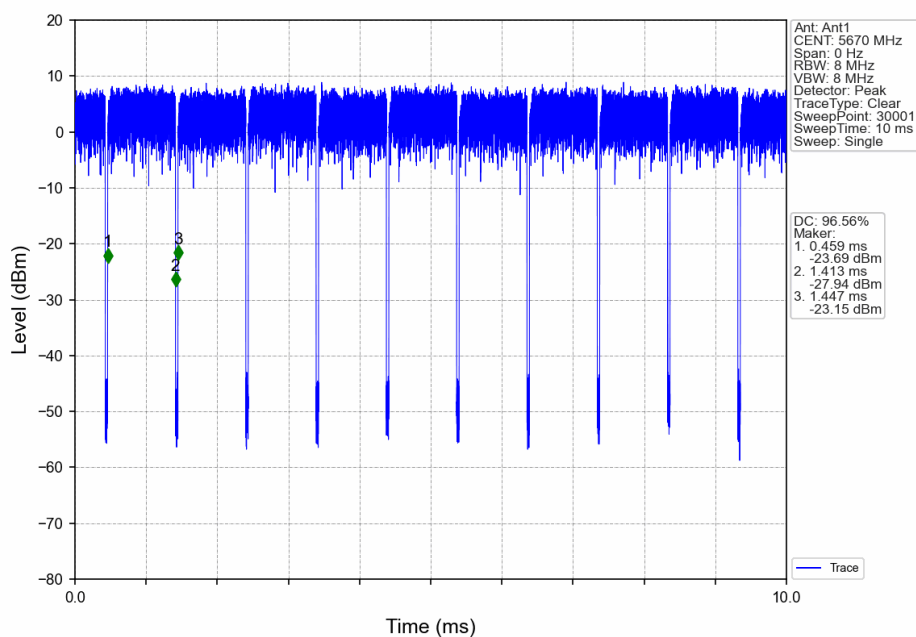
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802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



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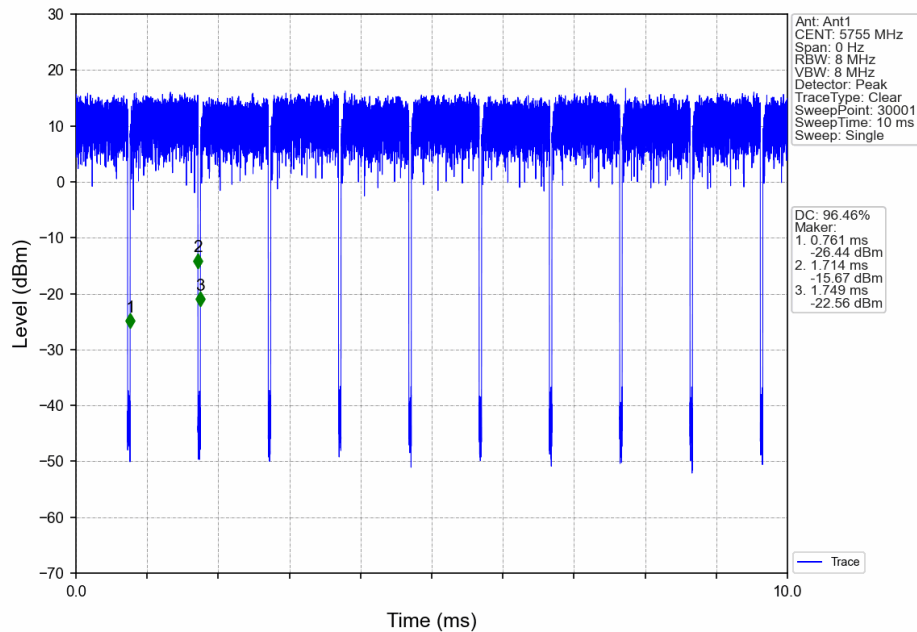
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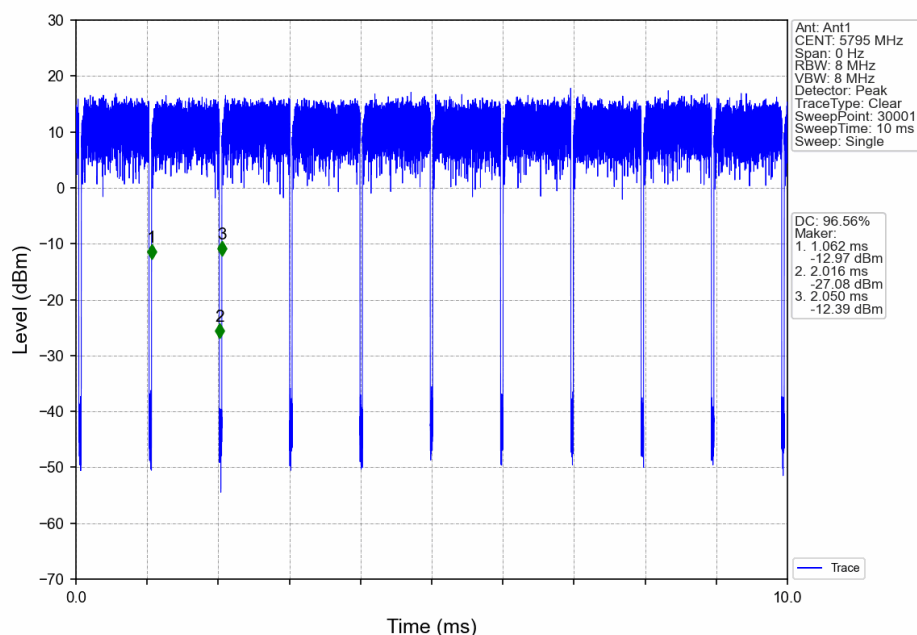
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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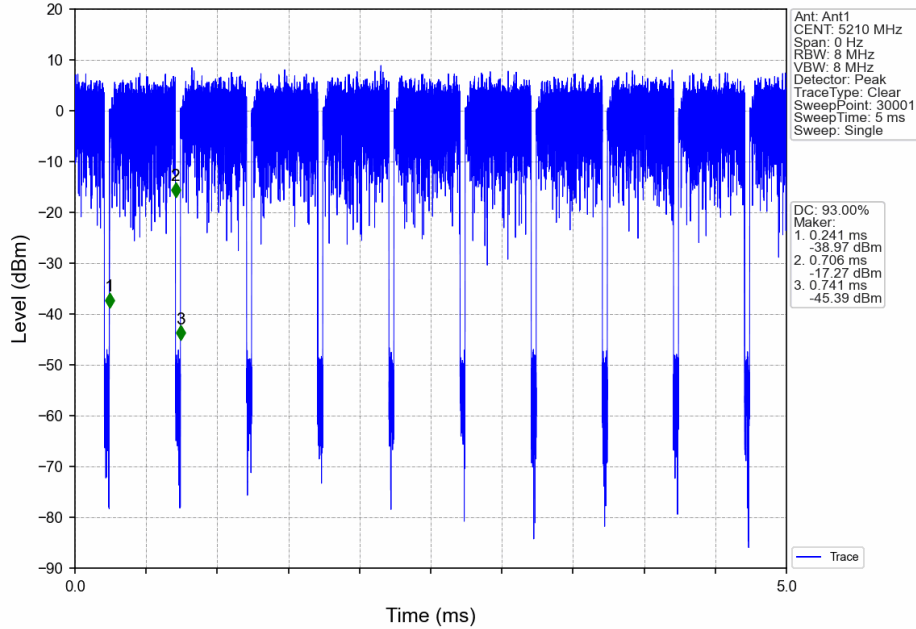
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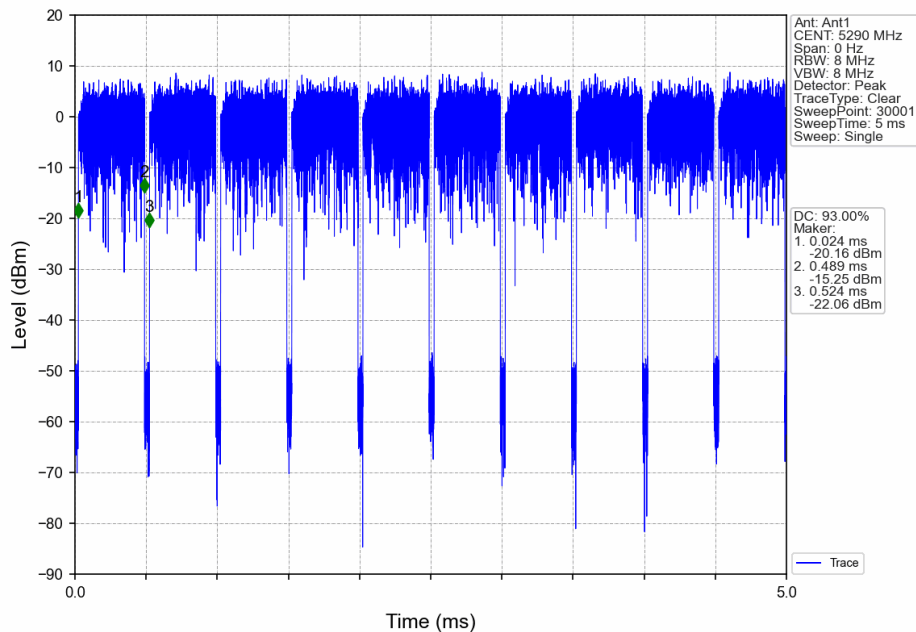
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



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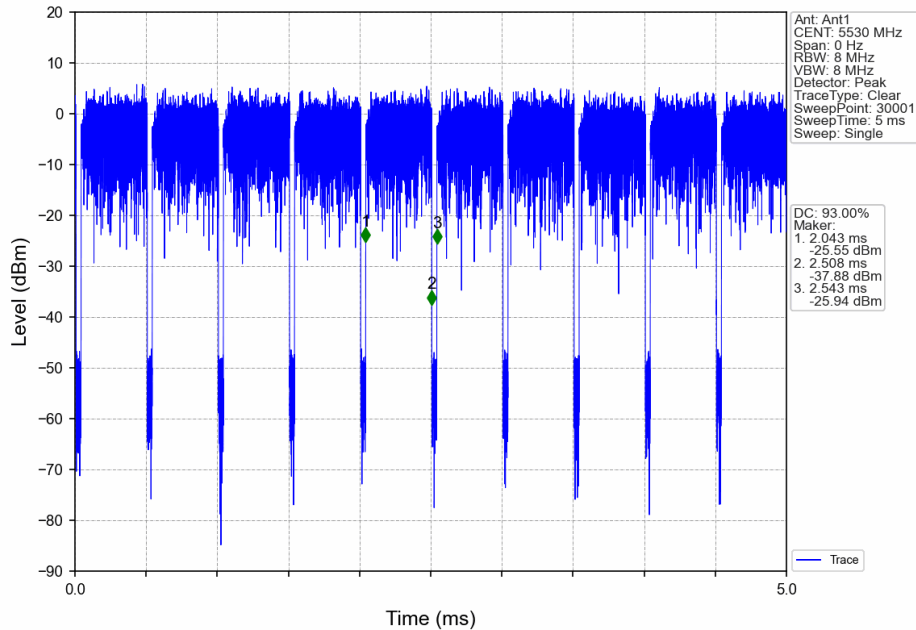
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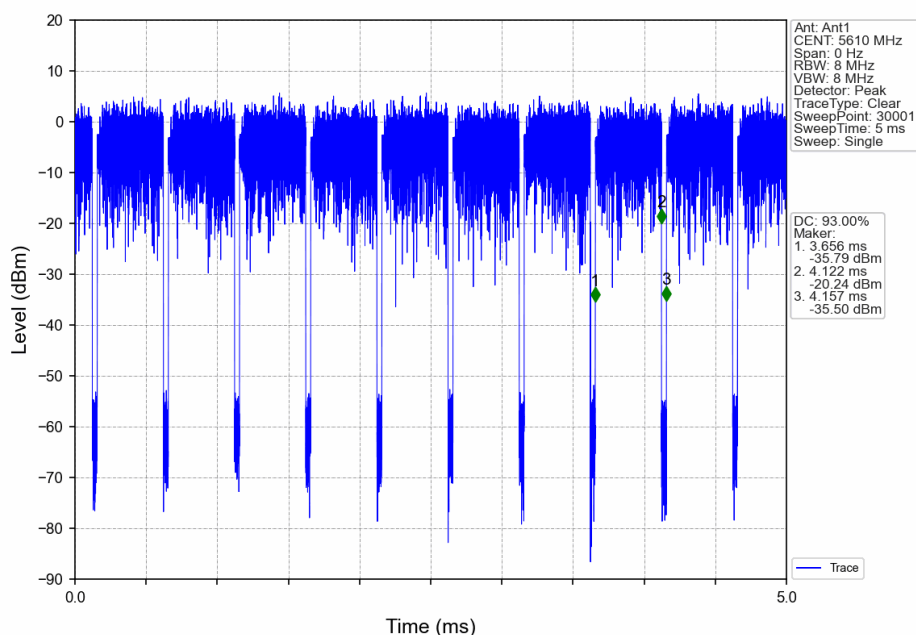
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802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



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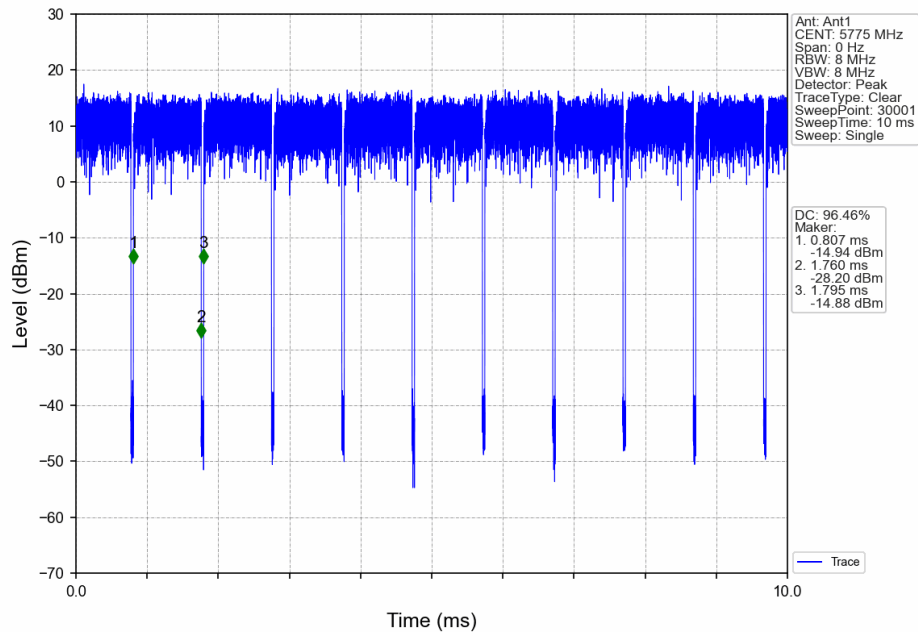
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### 802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	MIMO	5180	1	17.134	Pass
			2	16.981	Pass
		5200	1	17.116	Pass
			2	16.943	Pass
		5240	1	17.160	Pass
			2	16.979	Pass
		5260	1	17.159	Pass
			2	16.978	Pass
		5300	1	17.122	Pass
			2	16.993	Pass
		5320	1	17.107	Pass
			2	16.967	Pass
		5500	1	17.147	Pass
			2	16.910	Pass
		5580	1	17.148	Pass
			2	16.940	Pass
		5700	1	17.080	Pass
			2	16.917	Pass
		5745	1	17.149	Pass
			2	16.942	Pass
		5785	1	17.161	Pass
			2	16.934	Pass
		5825	1	17.267	Pass
			2	16.864	Pass
802.11n (HT20)	MIMO	5180	1	18.322	Pass
			2	18.207	Pass
		5200	1	18.274	Pass
			2	18.196	Pass
		5240	1	18.292	Pass
			2	18.188	Pass



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		5260	1	18.336	Pass
			2	18.233	Pass
		5300	1	18.312	Pass
			2	18.223	Pass
		5320	1	18.288	Pass
			2	18.230	Pass
		5500	1	18.312	Pass
			2	18.172	Pass
		5580	1	18.314	Pass
			2	18.169	Pass
		5700	1	18.295	Pass
			2	18.192	Pass
		5745	1	18.558	Pass
			2	18.175	Pass
		5785	1	18.410	Pass
			2	18.151	Pass
		5825	1	18.478	Pass
			2	18.207	Pass
802.11n (HT40)	MIMO	5190	1	36.653	Pass
			2	36.544	Pass
		5230	1	36.636	Pass
			2	36.540	Pass
		5270	1	36.611	Pass
			2	36.581	Pass
		5310	1	36.598	Pass
			2	36.505	Pass
		5510	1	36.638	Pass
			2	36.519	Pass
		5550	1	36.611	Pass
			2	36.554	Pass
		5670	1	36.628	Pass
			2	36.539	Pass
		5755	1	36.808	Pass
			2	36.586	Pass
		5795	1	36.891	Pass
			2	36.629	Pass
802.11ac (VHT20)	MIMO	5180	1	18.287	Pass
			2	18.218	Pass
		5200	1	18.316	Pass



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			2	18.233	Pass
			1	18.275	Pass
		5240	2	18.155	Pass
		5260	1	18.346	Pass
			2	18.226	Pass
		5300	1	18.307	Pass
			2	18.171	Pass
		5320	1	18.317	Pass
			2	18.229	Pass
		5500	1	18.318	Pass
			2	18.195	Pass
		5580	1	18.296	Pass
			2	18.184	Pass
		5700	1	18.278	Pass
			2	18.141	Pass
		5745	1	18.492	Pass
			2	18.209	Pass
		5785	1	18.388	Pass
			2	18.146	Pass
		5825	1	18.600	Pass
			2	18.209	Pass
802.11ac (VHT40)	MIMO	5190	1	36.584	Pass
			2	36.546	Pass
		5230	1	36.505	Pass
			2	36.500	Pass
		5270	1	36.635	Pass
			2	36.486	Pass
		5310	1	36.583	Pass
			2	36.541	Pass
		5510	1	36.543	Pass
			2	36.533	Pass
		5550	1	36.575	Pass
			2	36.543	Pass
		5670	1	36.592	Pass
			2	36.575	Pass
		5755	1	36.697	Pass
			2	36.512	Pass
		5795	1	36.673	Pass
			2	36.508	Pass



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802.11ac (VHT80)	MIMO	5210	1	75.703	Pass
			2	75.529	Pass
		5290	1	75.557	Pass
			2	75.618	Pass
		5530	1	75.706	Pass
			2	75.507	Pass
		5610	1	75.872	Pass
			2	75.799	Pass
		5775	1	75.085	Pass
			2	74.995	Pass



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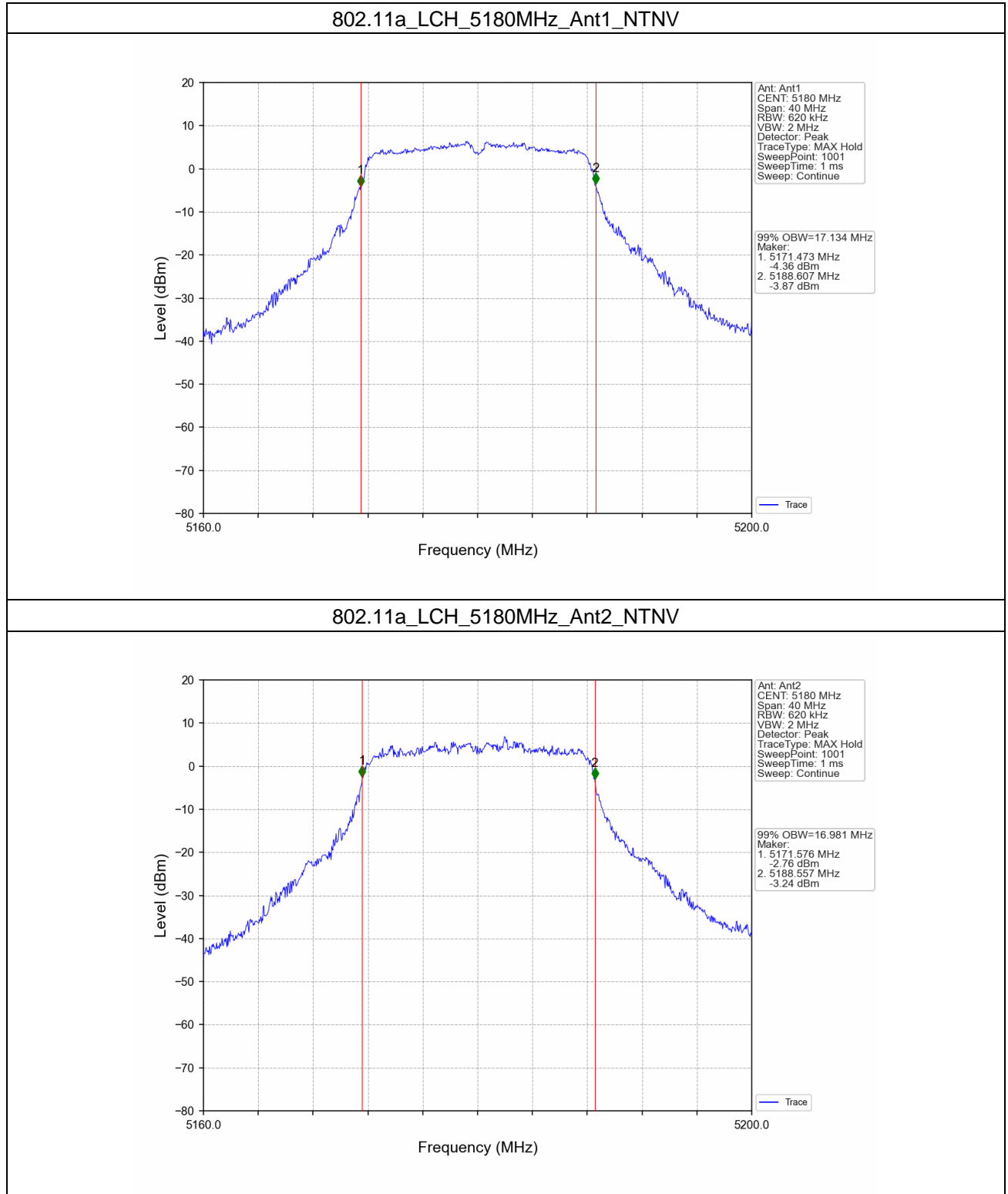
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### 2.1.2 Test Graph



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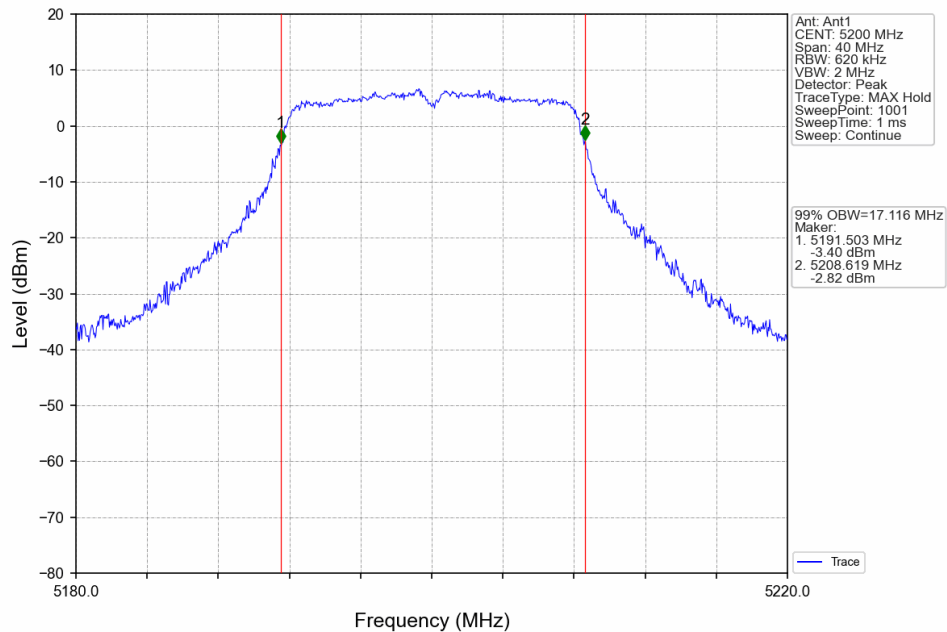
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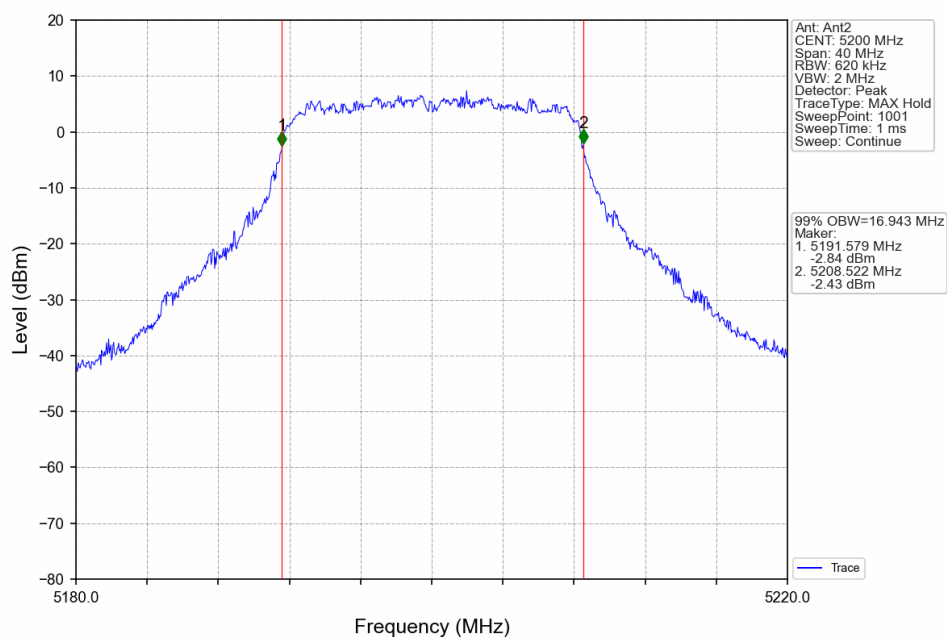
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802.11a\_MCH\_5200MHz\_Ant1\_NTNV



802.11a\_MCH\_5200MHz\_Ant2\_NTNV



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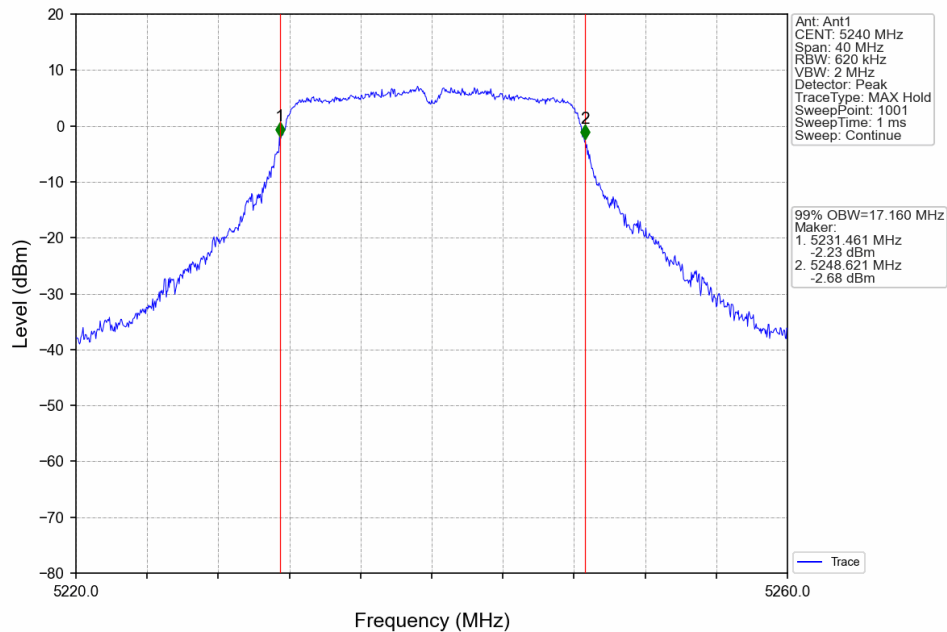
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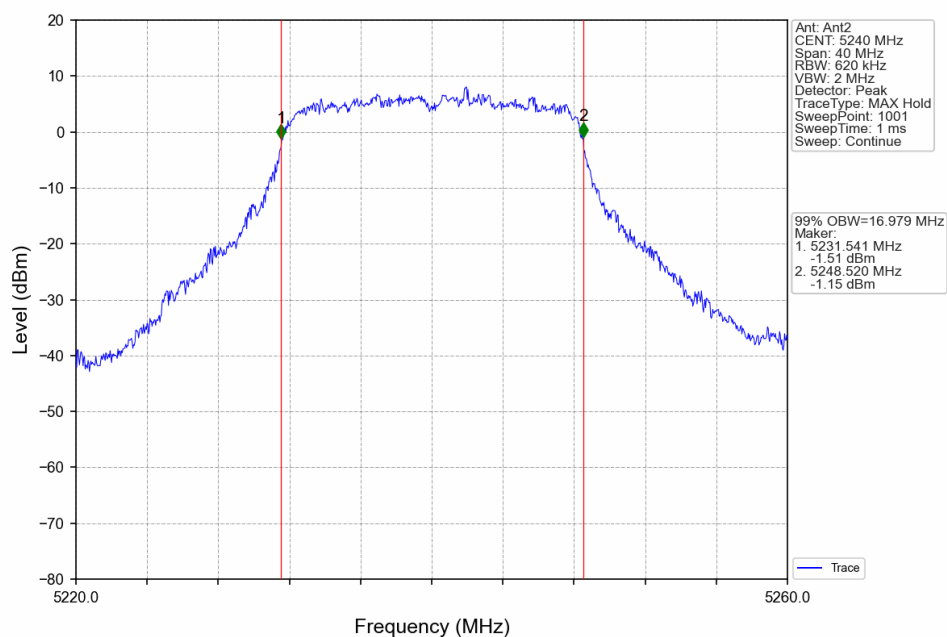
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802.11a\_HCH\_5240MHz\_Ant2\_NTNV



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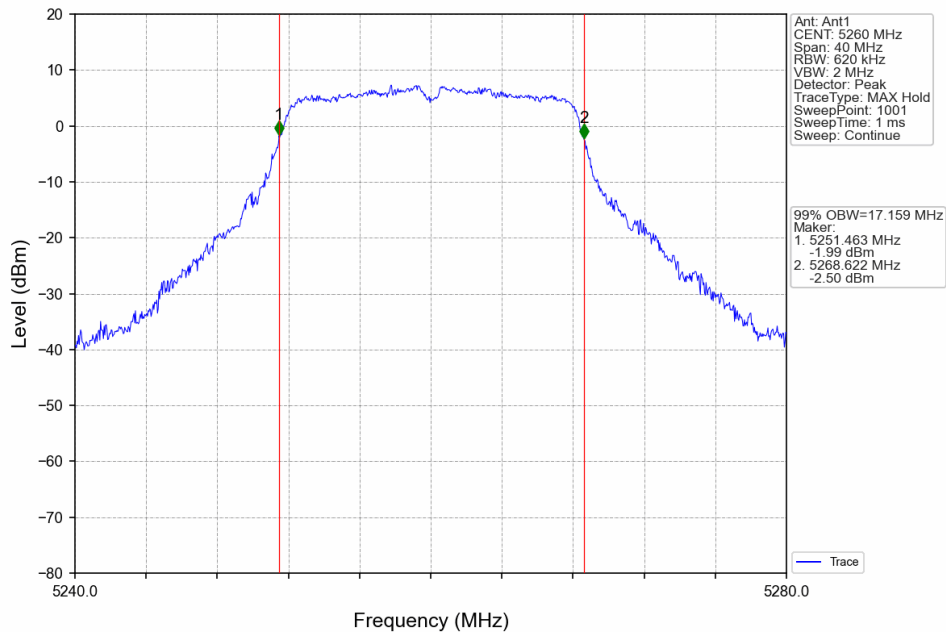
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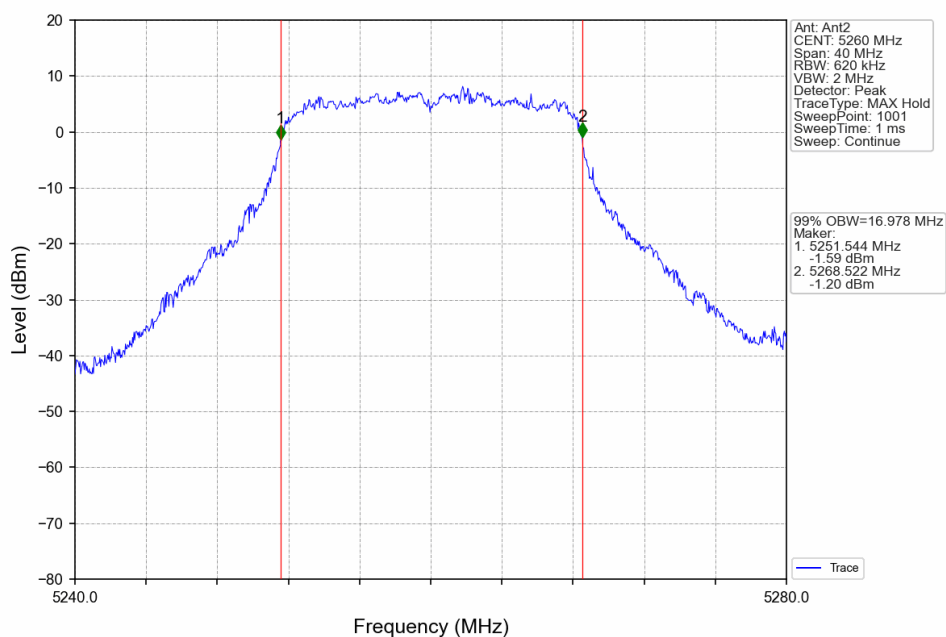
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802.11a\_LCH\_5260MHz\_Ant1\_NTNV



802.11a\_LCH\_5260MHz\_Ant2\_NTNV



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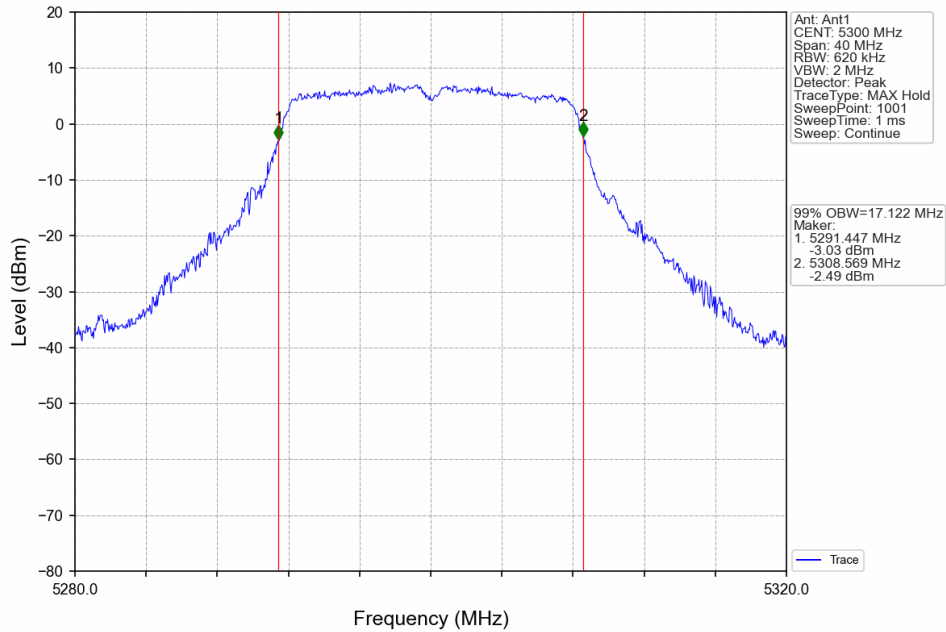
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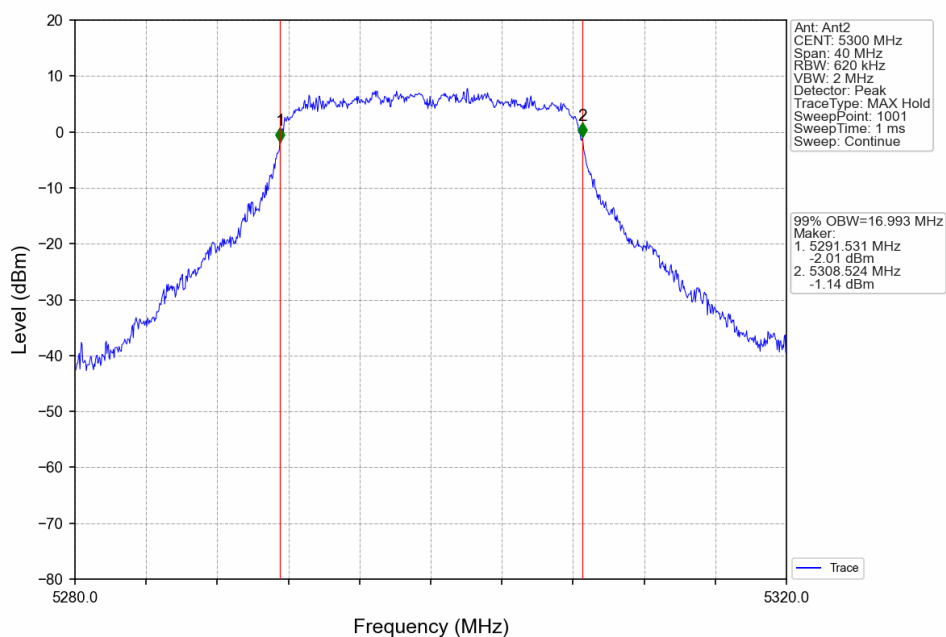
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802.11a\_MCH\_5300MHz\_Ant1\_NTNV



802.11a\_MCH\_5300MHz\_Ant2\_NTNV



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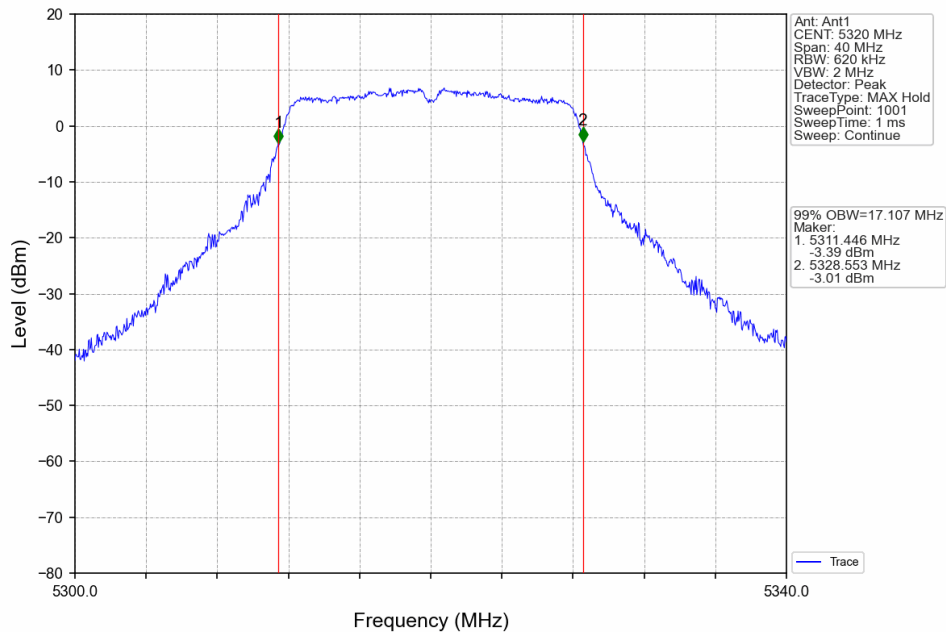
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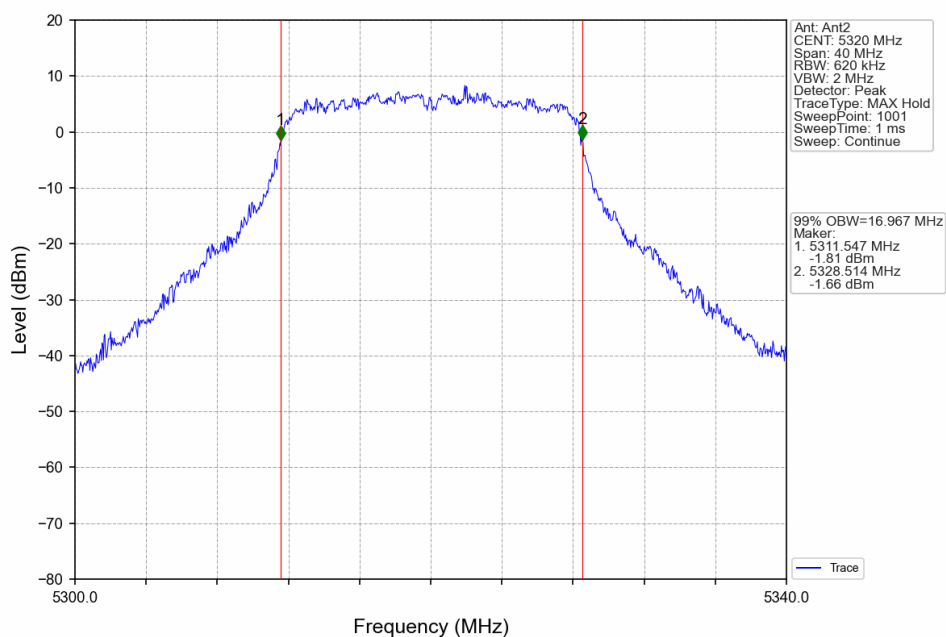
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802.11a\_HCH\_5320MHz\_Ant1\_NTNV



802.11a\_HCH\_5320MHz\_Ant2\_NTNV



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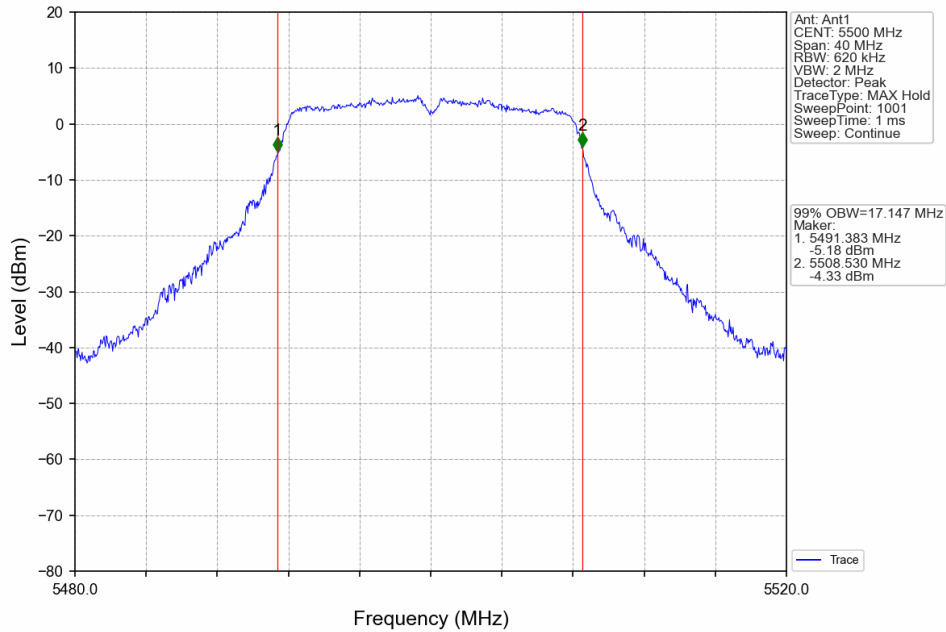
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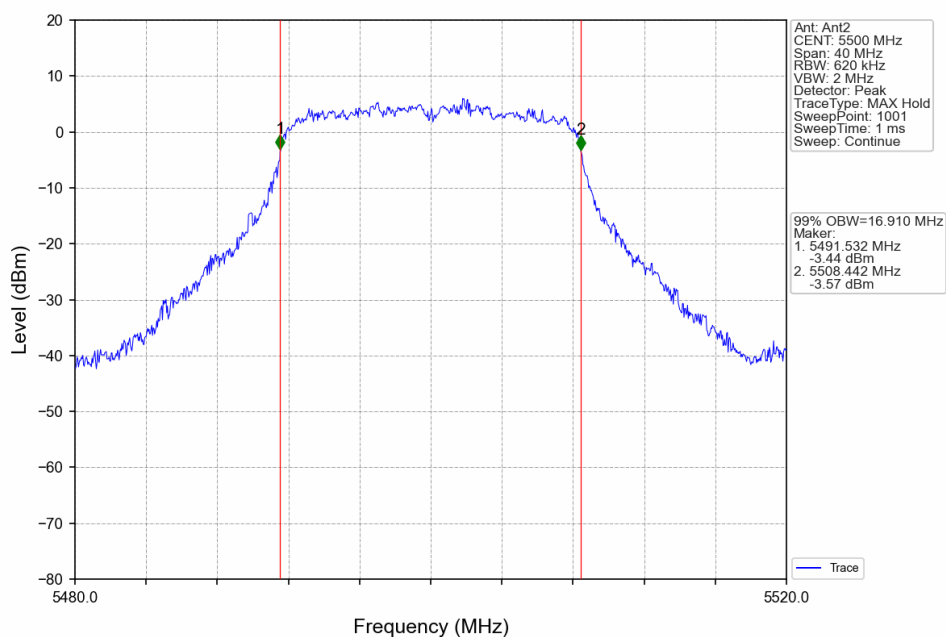
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802.11a\_LCH\_5500MHz\_Ant2\_NTNV



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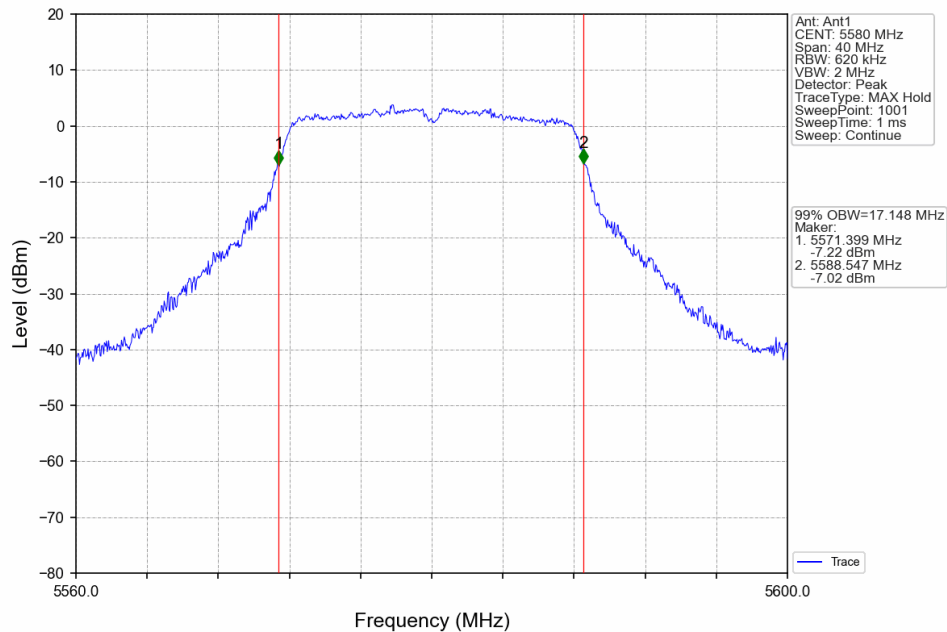
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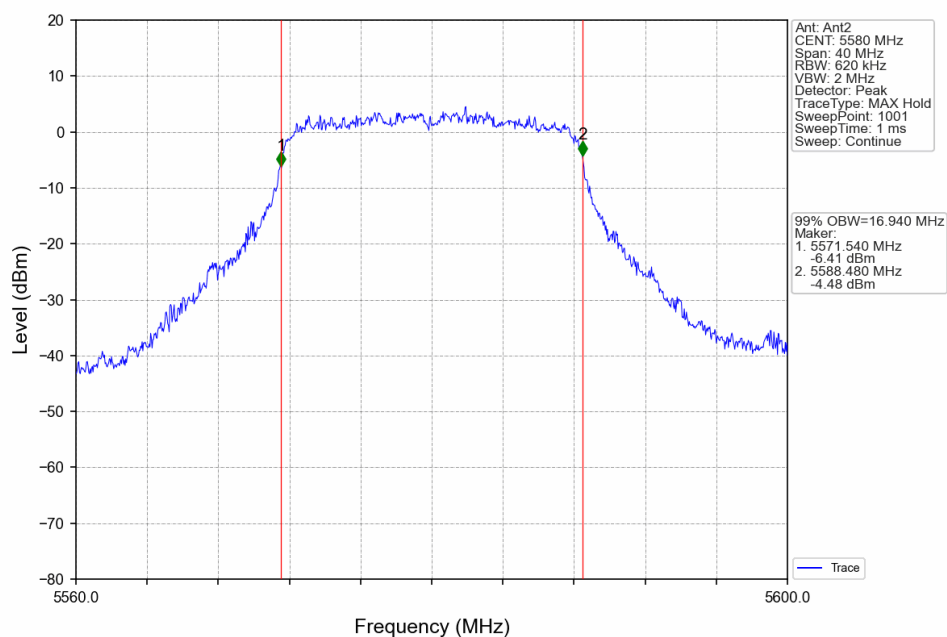
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802.11a\_MCH\_5580MHz\_Ant2\_NTNV



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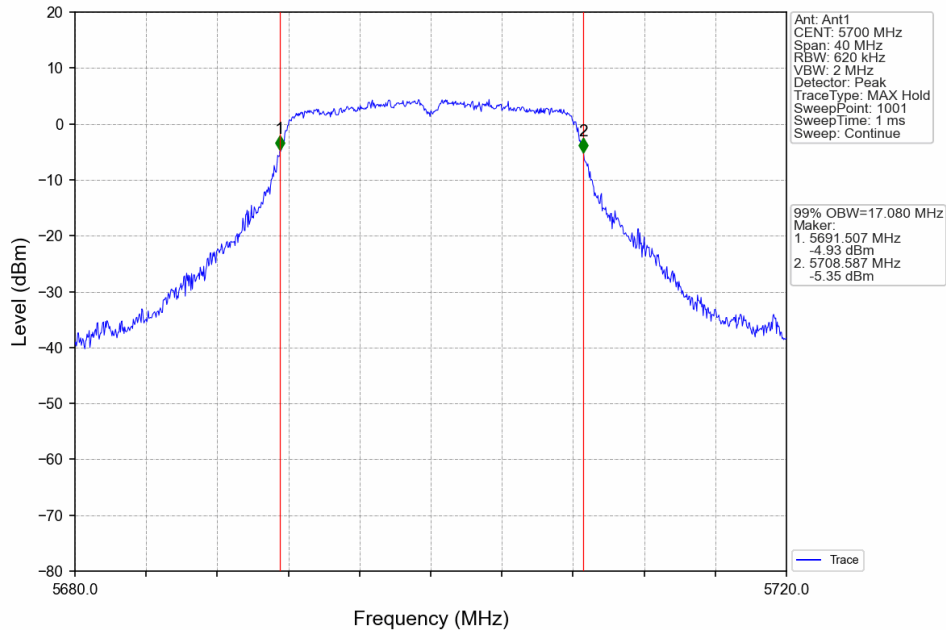
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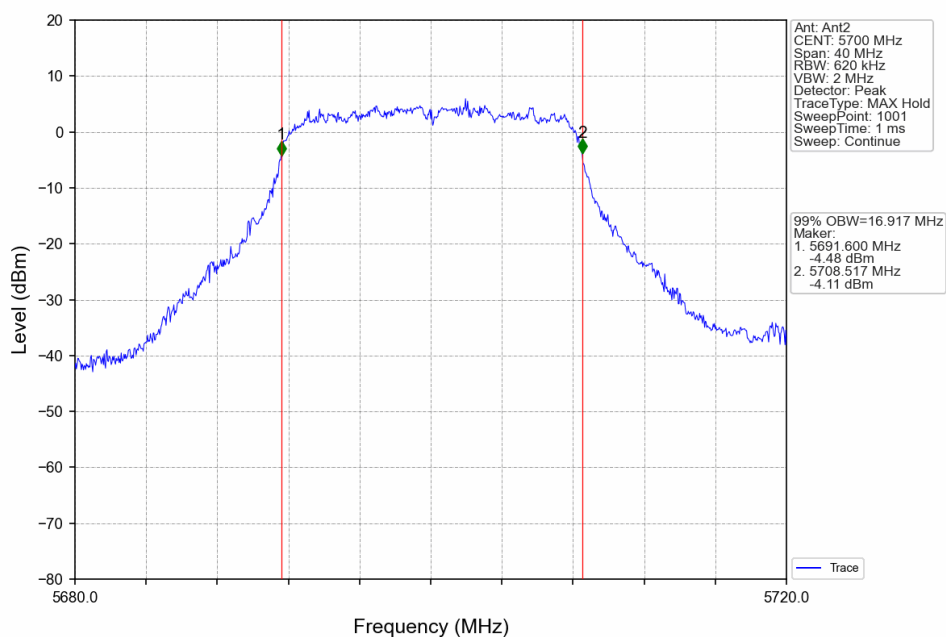
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802.11a\_HCH\_5700MHz\_Ant1\_NTNV



802.11a\_HCH\_5700MHz\_Ant2\_NTNV



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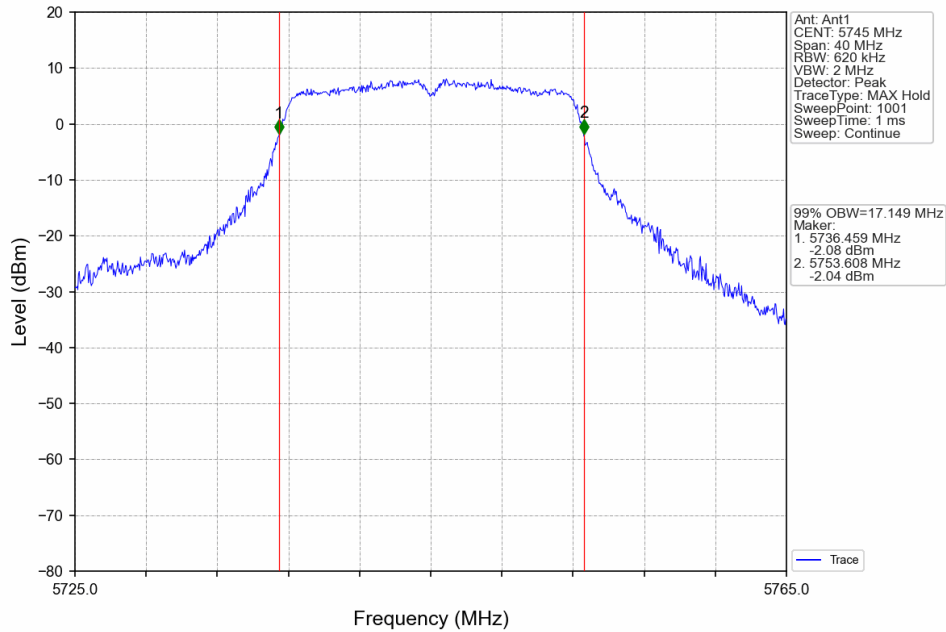
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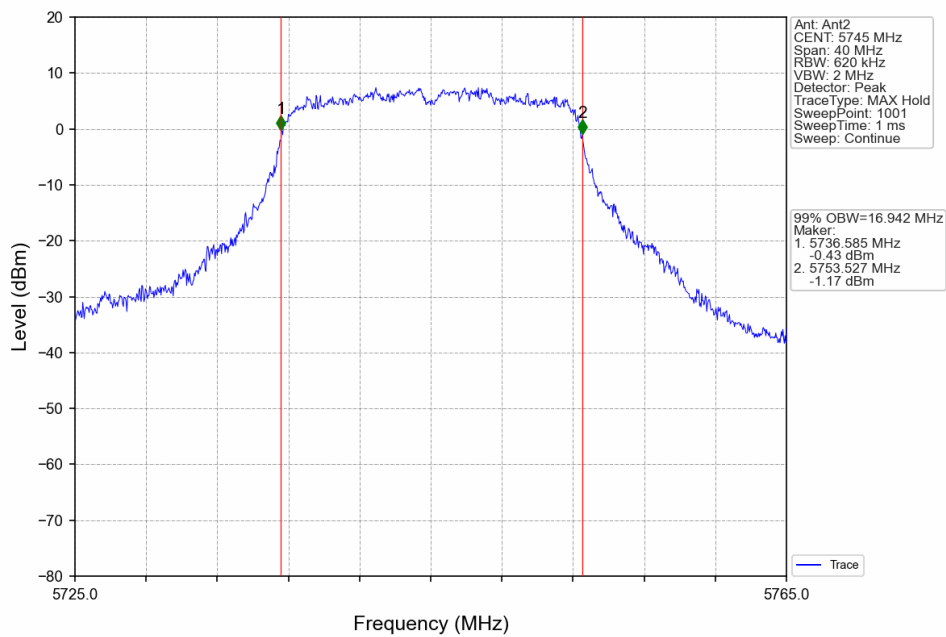
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802.11a\_LCH\_5745MHz\_Ant1\_NTNV



802.11a\_LCH\_5745MHz\_Ant2\_NTNV



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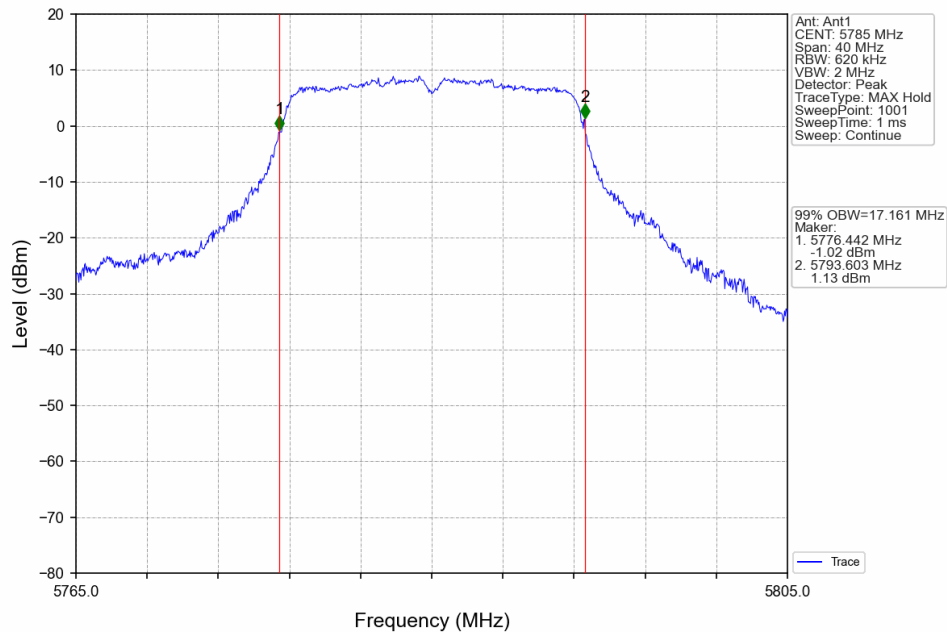
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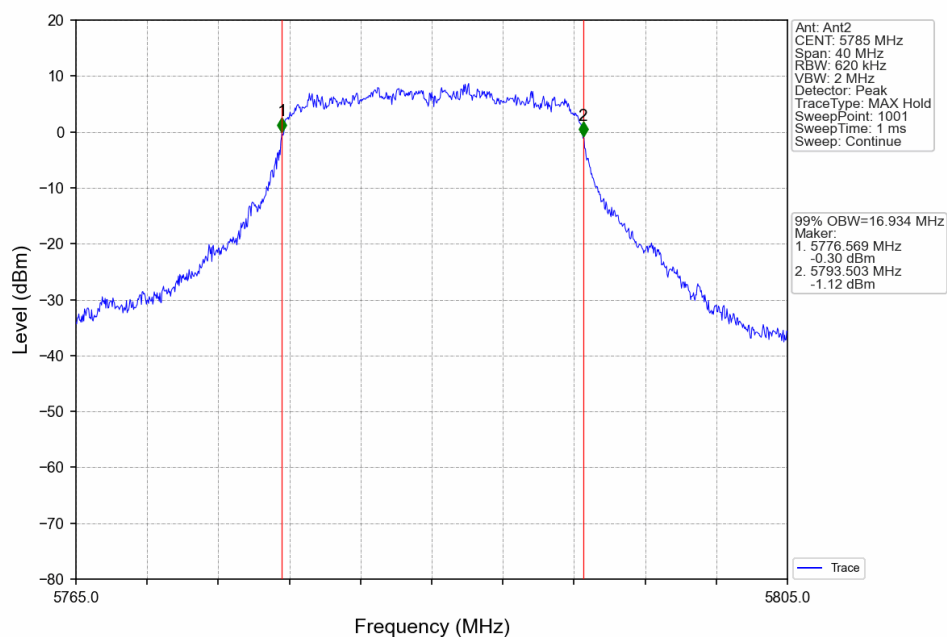
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802.11a\_MCH\_5785MHz\_Ant2\_NTNV



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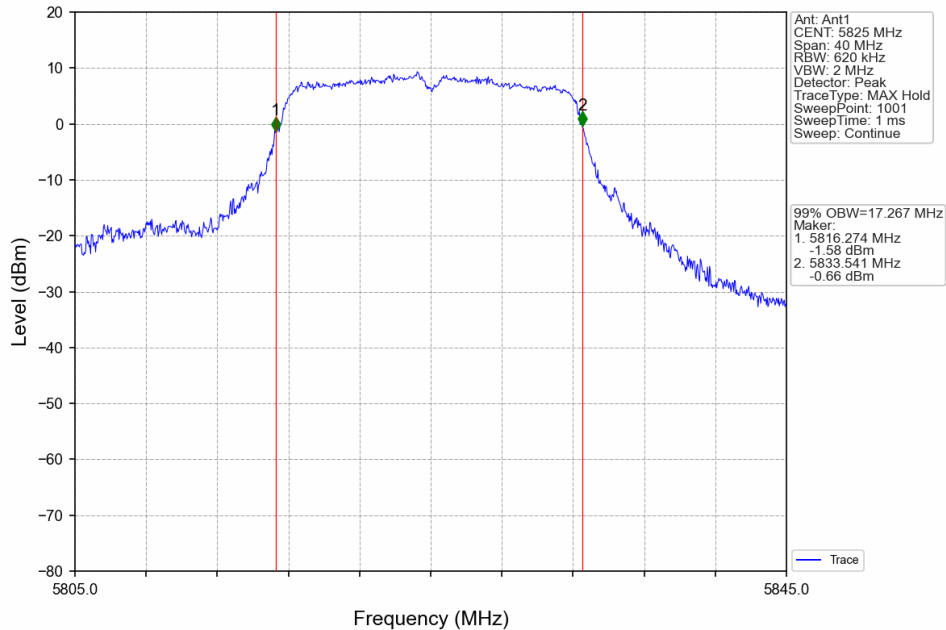
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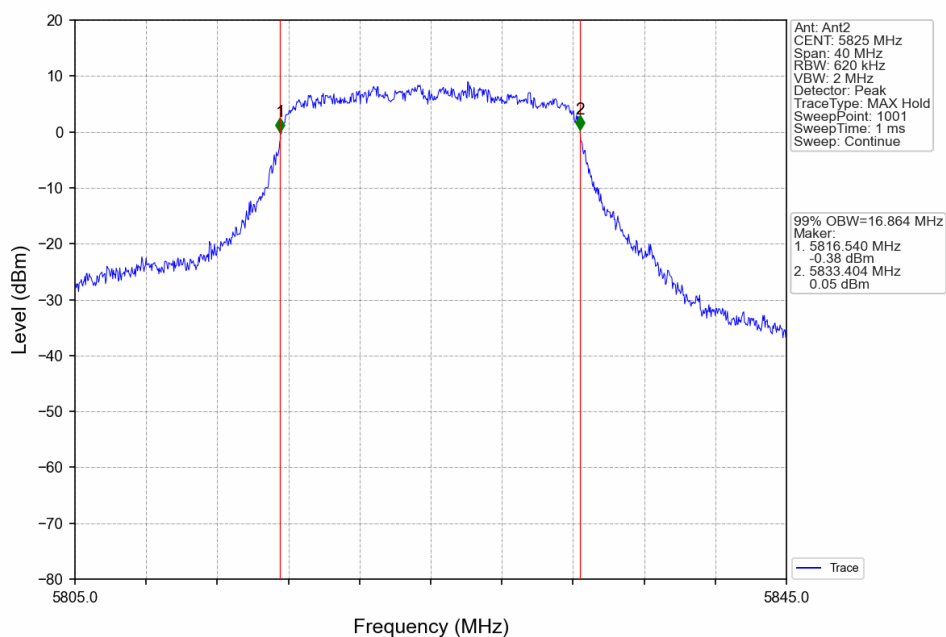
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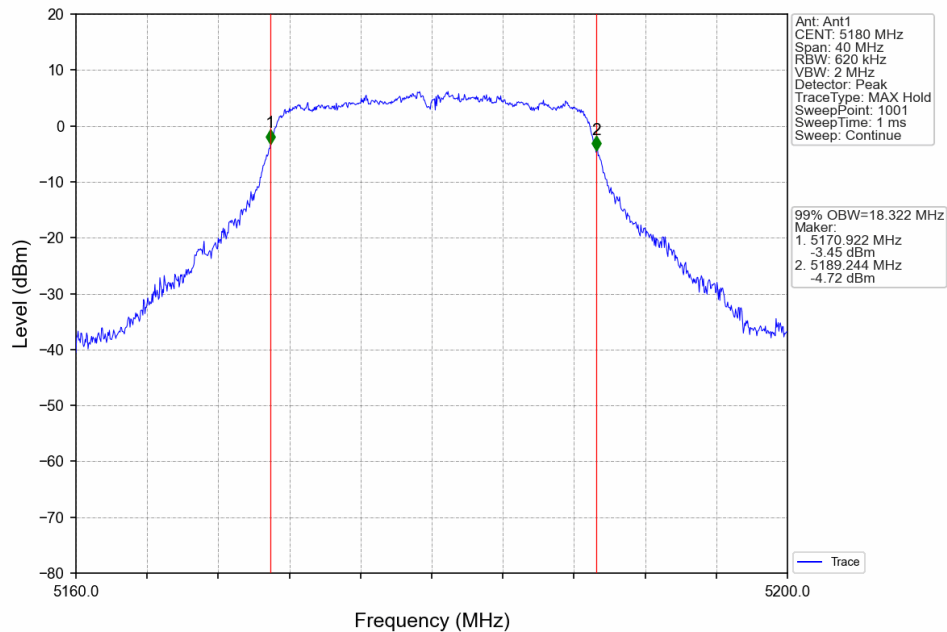
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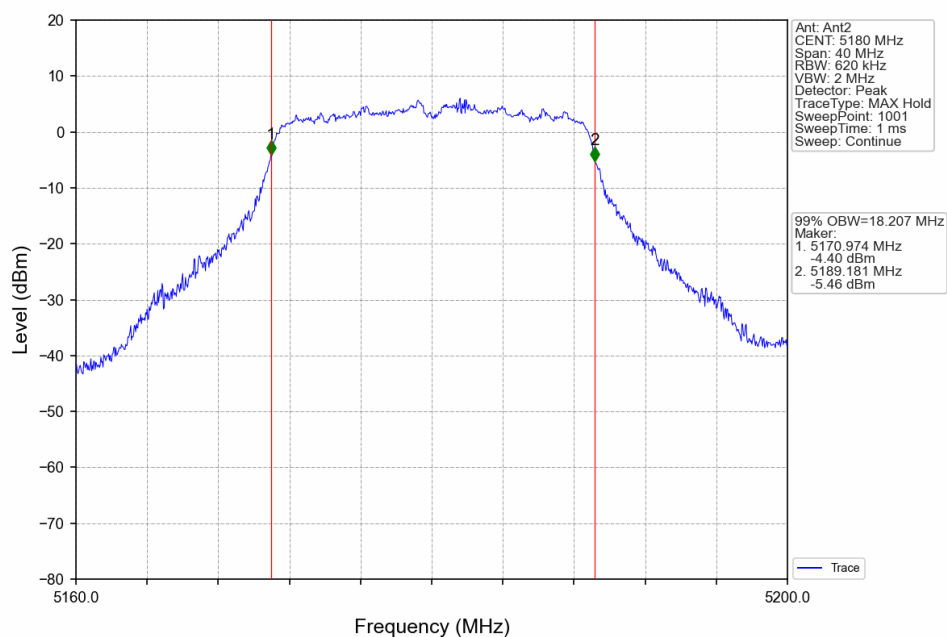
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



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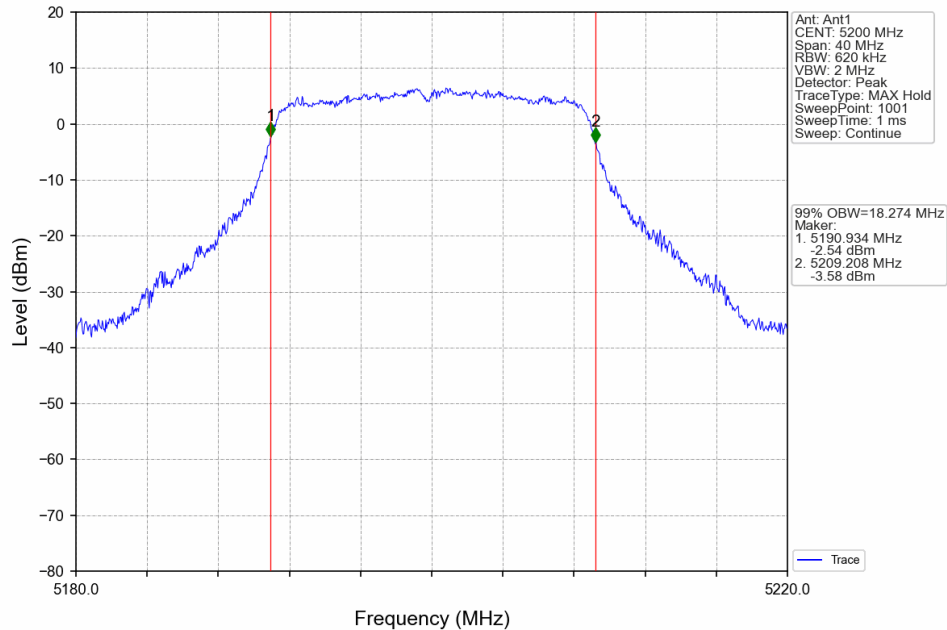
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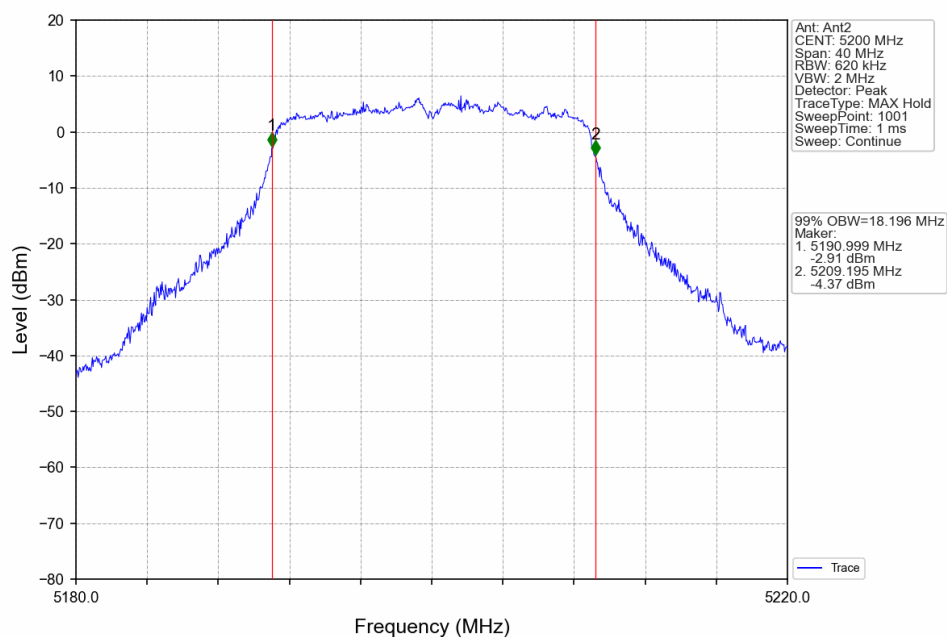
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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



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