

Appendix RF Test Data for 5G WIFI

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

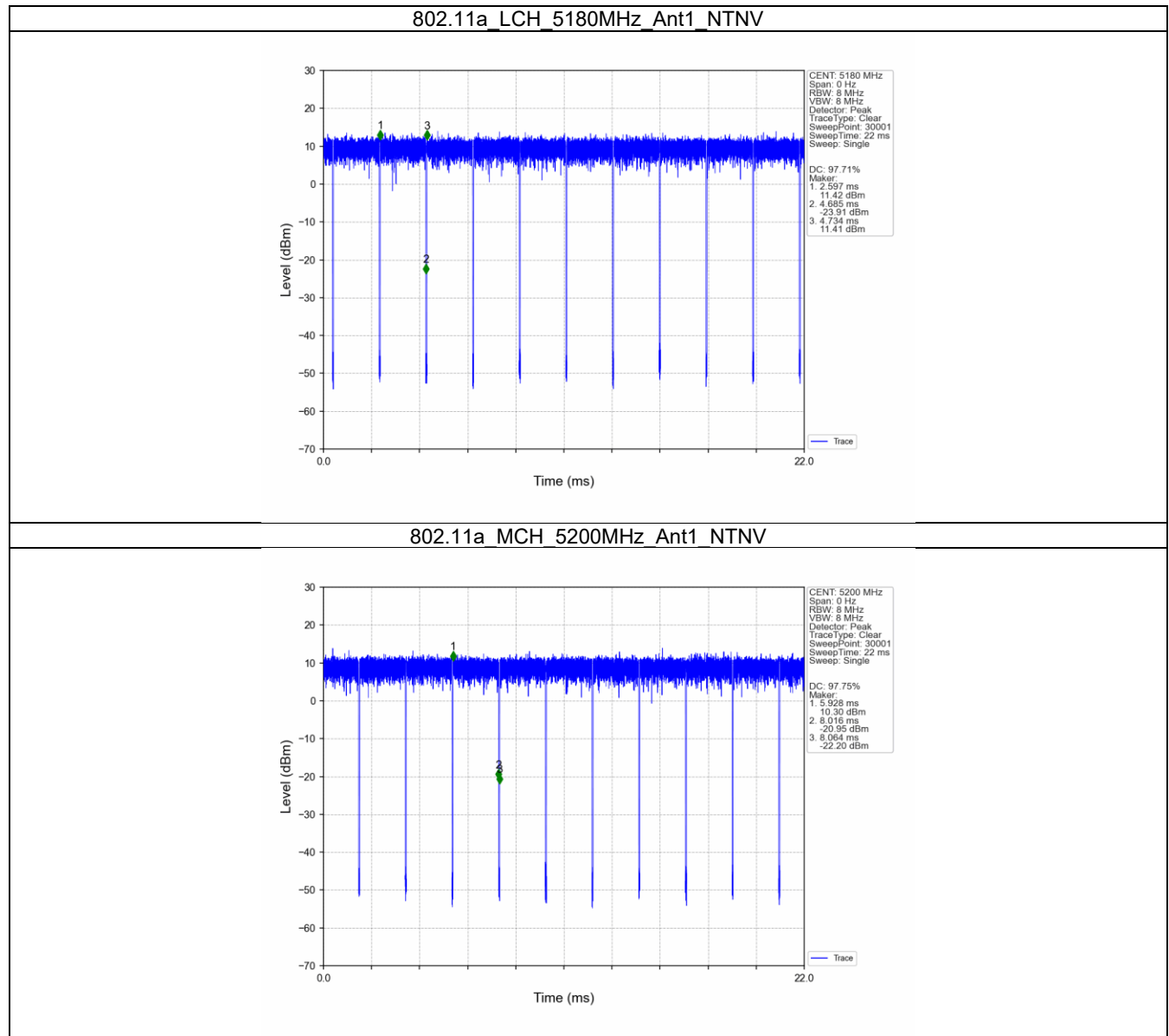
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	2.088	2.137	97.71	0.10	0.14
		5200	2.088	2.136	97.75	0.10	0.10
		5240	2.089	2.137	97.75	0.10	0.14
		5260	2.089	2.137	97.75	0.10	0.07
		5300	2.088	2.136	97.75	0.10	0.07
		5320	2.089	2.137	97.75	0.10	0.17
		5500	2.089	2.138	97.71	0.10	0.13
		5580	2.089	2.137	97.75	0.10	0.10
		5700	2.088	2.136	97.75	0.10	0.14
		5745	2.088	2.136	97.75	0.10	0.07
		5785	2.089	2.137	97.75	0.10	0.10
802.11n (HT20)	SISO	5825	2.089	2.136	97.80	0.10	0.07
		5180	3.976	4.023	98.83	0.05	0.07
		5200	3.977	4.025	98.81	0.05	0.03
		5240	3.976	4.023	98.83	0.05	0.03
		5260	3.977	4.025	98.81	0.05	0.03
		5300	3.976	4.024	98.81	0.05	0.03
		5320	3.976	4.024	98.81	0.05	0.03
		5500	3.976	4.025	98.78	0.05	0.10
		5580	3.976	4.024	98.81	0.05	0.07
		5700	3.976	4.024	98.81	0.05	0.07
		5745	3.978	4.027	98.78	0.05	0.07
802.11n (HT40)	SISO	5785	3.976	4.024	98.81	0.05	0.03
		5825	3.978	4.027	98.78	0.05	0.10
		5190	3.971	4.019	98.81	0.05	0.07
		5230	3.971	4.020	98.78	0.05	0.07
		5270	3.972	4.019	98.83	0.05	0.07
		5310	3.972	4.020	98.81	0.05	0.03
		5510	3.972	4.019	98.83	0.05	0.03
		5550	3.972	4.021	98.78	0.05	0.10
802.11ac (VHT20)	SISO	5670	3.972	4.019	98.83	0.05	0.03
		5755	3.972	4.021	98.78	0.05	0.07
		5795	3.973	4.021	98.81	0.05	0.07
		5180	3.944	3.991	98.82	0.05	0.04
		5200	3.943	3.991	98.80	0.05	0.04
		5240	3.944	3.993	98.77	0.05	0.07
		5260	3.945	3.994	98.77	0.05	0.10
		5300	3.944	3.993	98.77	0.05	0.07
		5320	3.944	3.991	98.82	0.05	0.04
		5500	3.943	3.991	98.80	0.05	0.04
		5580	3.945	3.994	98.77	0.05	0.07
802.11ac (VHT40)	SISO	5700	3.945	3.994	98.77	0.05	0.07
		5745	3.945	3.992	98.82	0.05	0.07
		5785	3.945	3.994	98.77	0.05	0.10
		5825	3.944	3.991	98.82	0.05	0.04
		5190	3.961	4.008	98.83	0.05	0.07
	SISO	5230	3.961	4.008	98.83	0.05	0.03
		5270	3.960	4.008	98.80	0.05	0.03
		5310	3.961	4.009	98.80	0.05	0.03



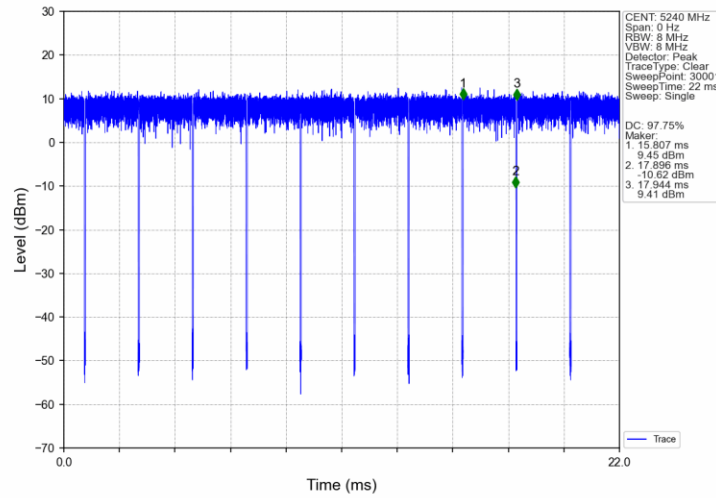
		5510	3.960	4.009	98.78	0.05	0.10
		5550	3.961	4.009	98.80	0.05	0.07
		5670	3.961	4.008	98.83	0.05	0.03
		5755	3.961	4.008	98.83	0.05	0.00
		5795	3.961	4.010	98.78	0.05	0.07

1.2 Test Graph

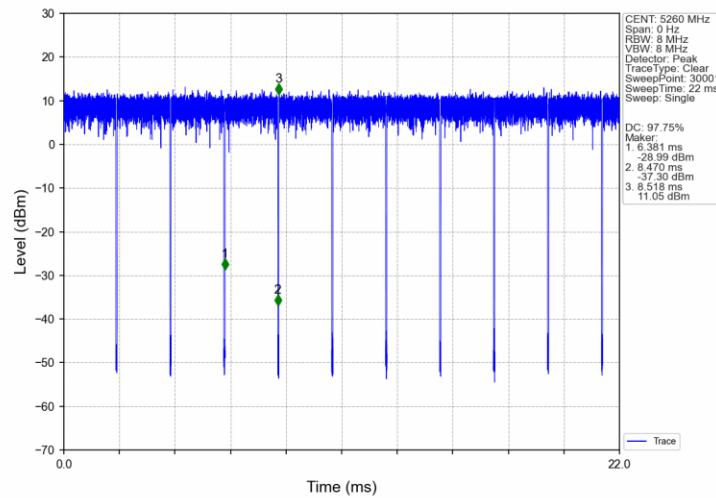
1.2.1 Ant1



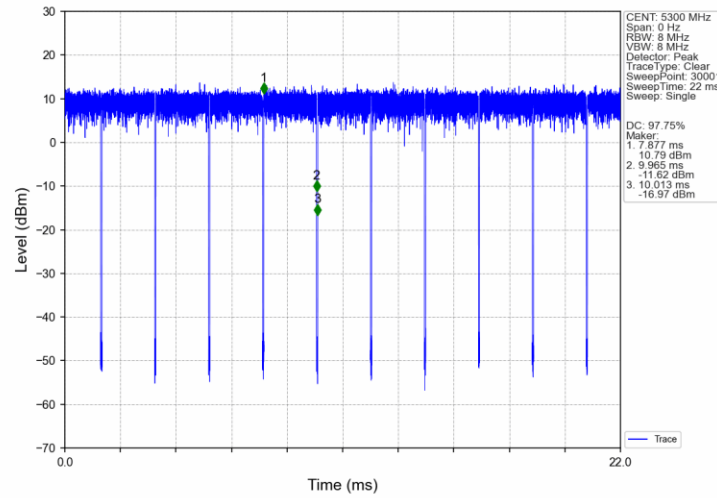
802.11a_HCH_5240MHz_Ant1_NTNV



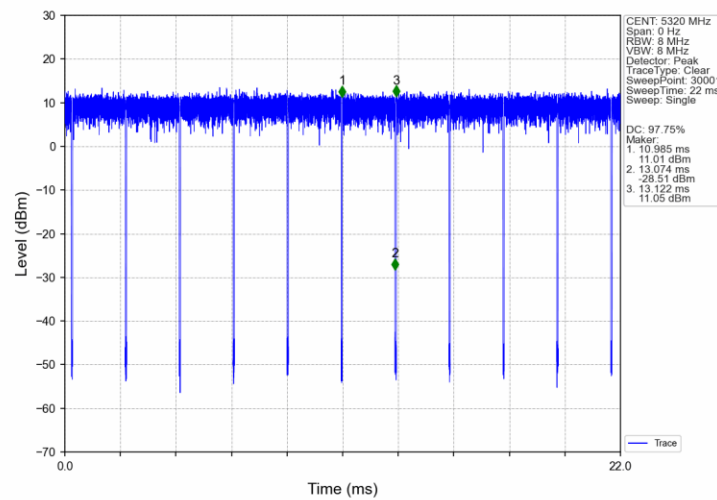
802.11a_LCH_5260MHz_Ant1_NTNV



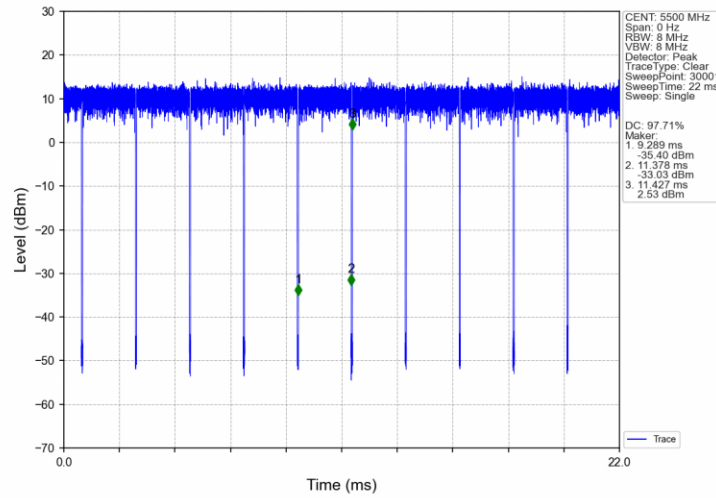
802.11a_MCH_5300MHz_Ant1_NTNV



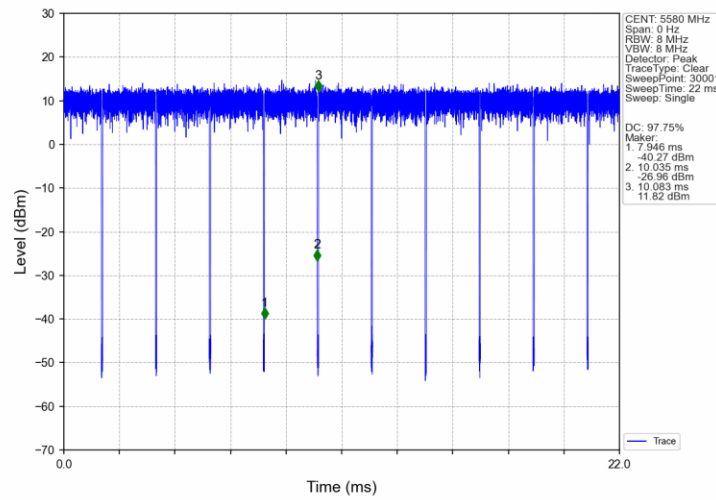
802.11a_HCH_5320MHz_Ant1_NTNV



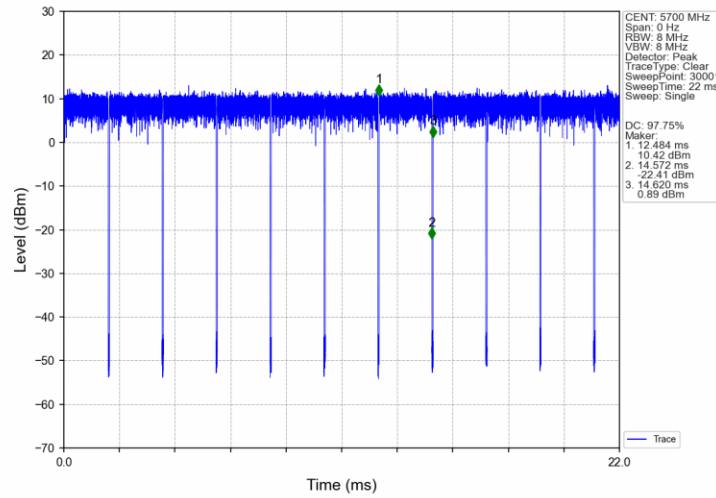
802.11a_LCH_5500MHz_Ant1_NTNV



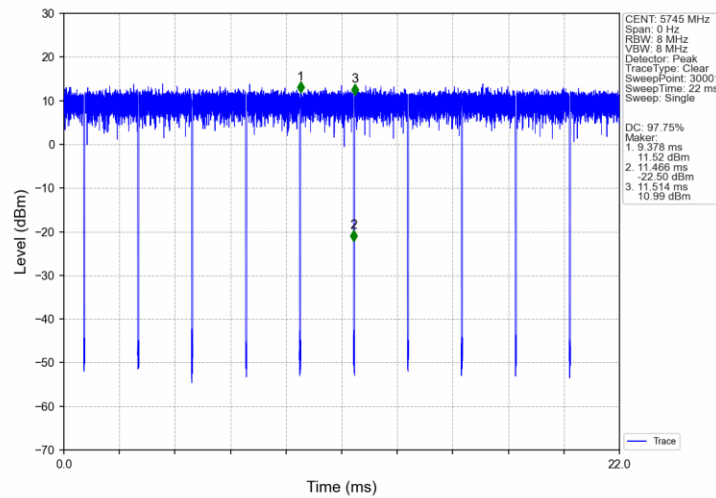
802.11a_MCH_5580MHz_Ant1_NTNV



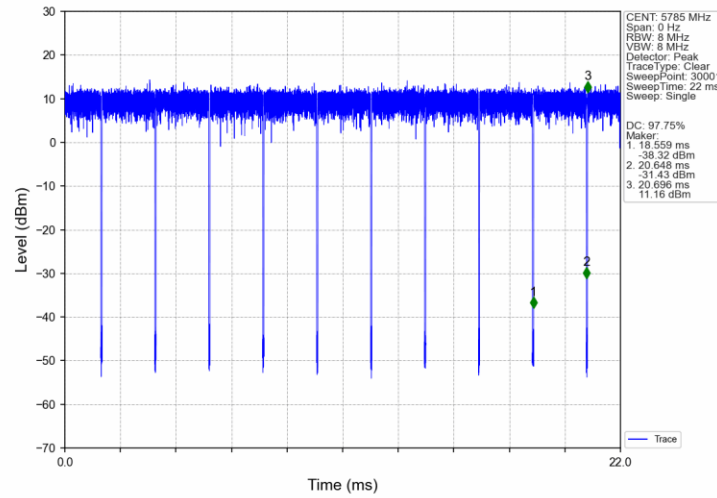
802.11a_HCH_5700MHz_Ant1_NTNV



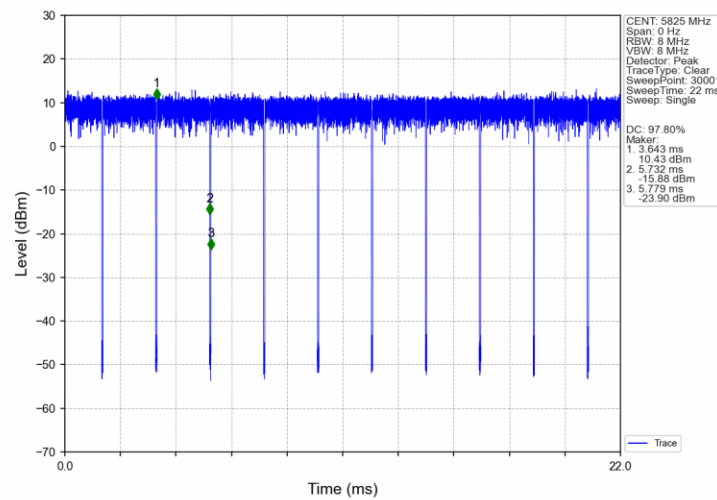
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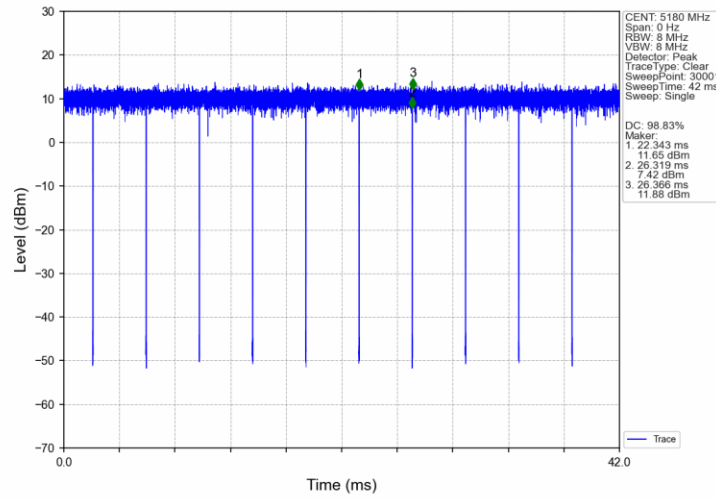
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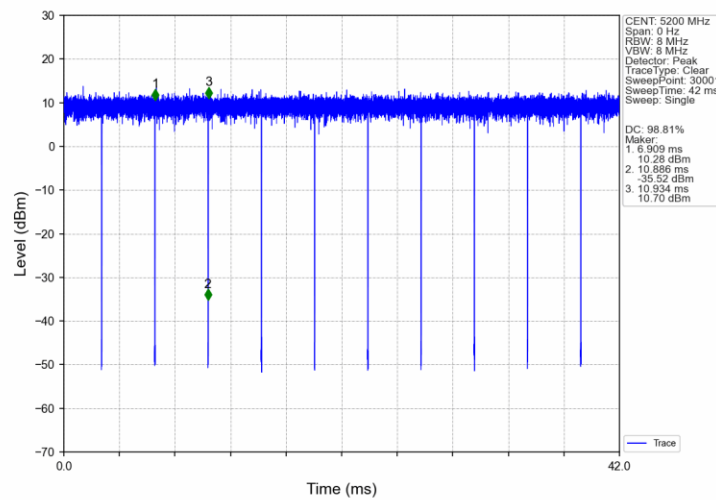
802.11a_HCH_5825MHz_Ant1_NTNV



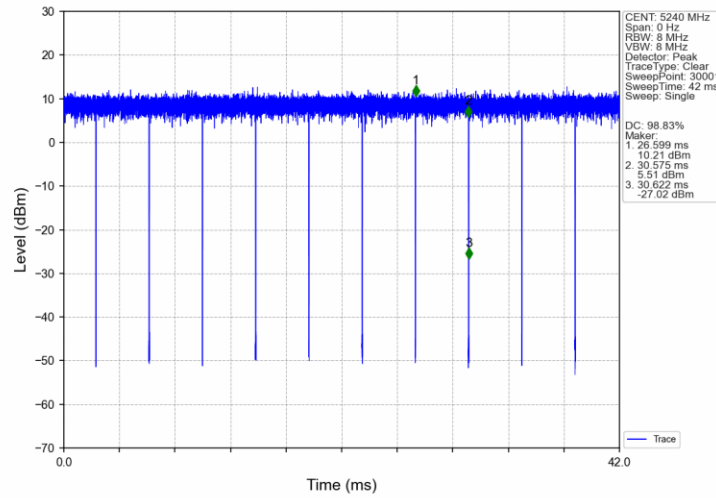
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



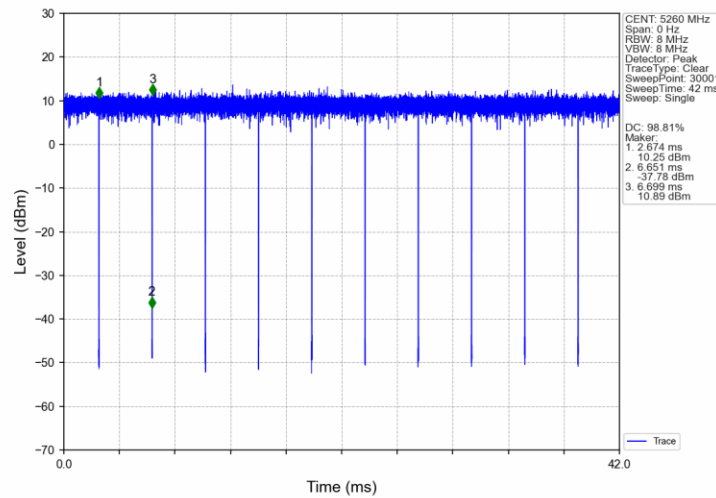
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



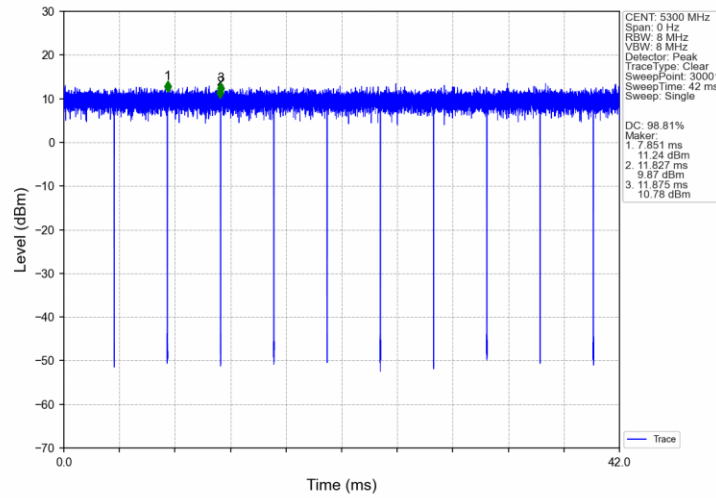
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



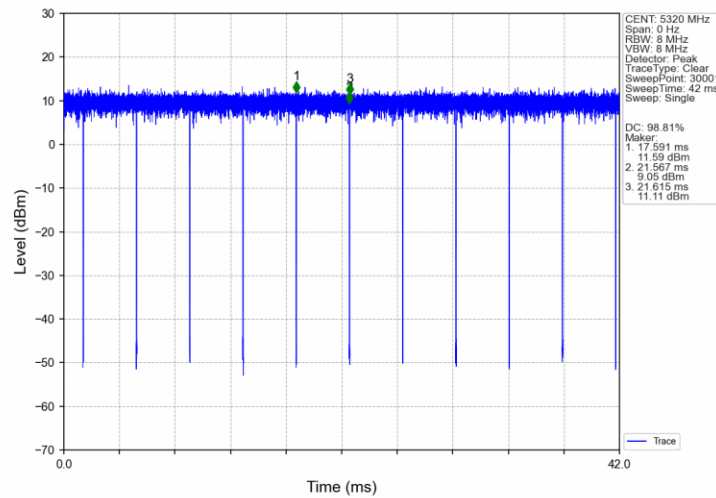
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



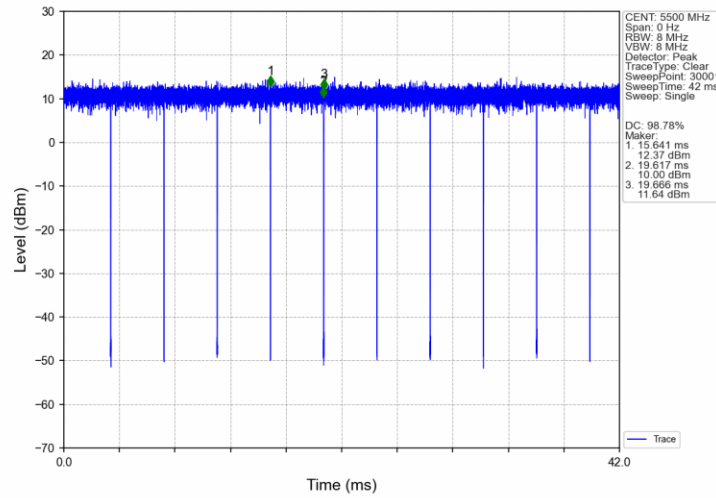
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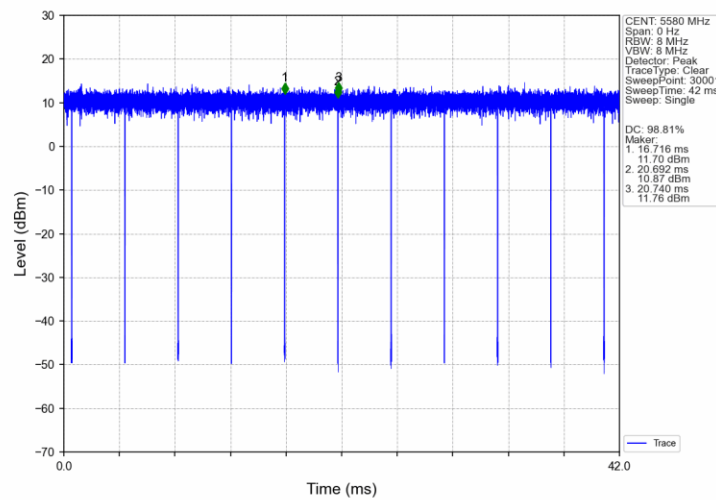
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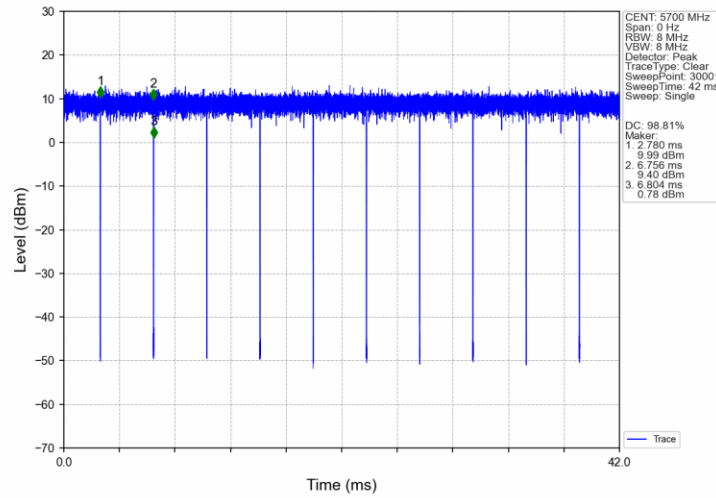
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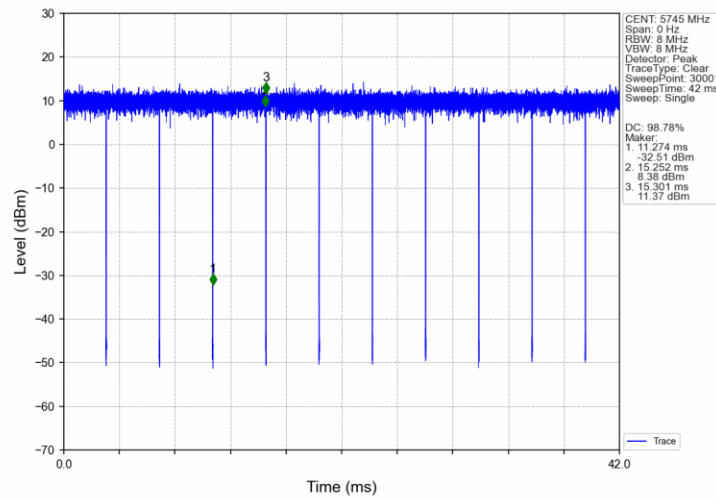
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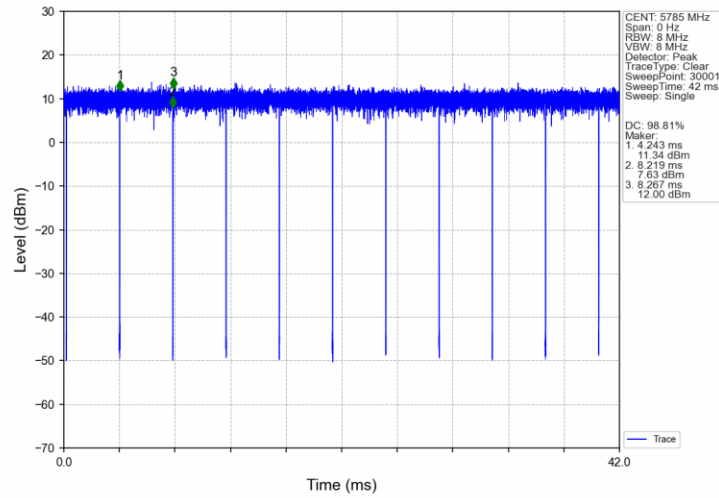
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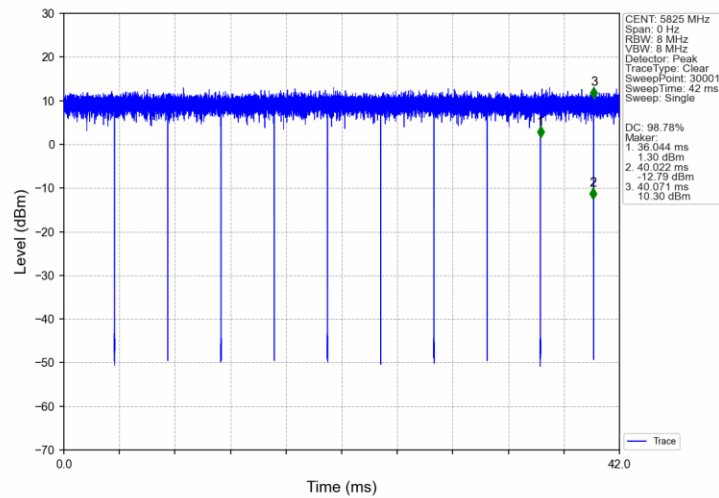
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



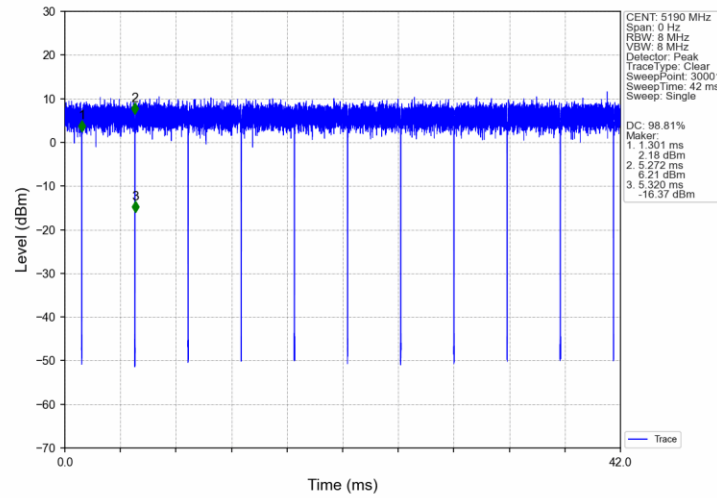
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



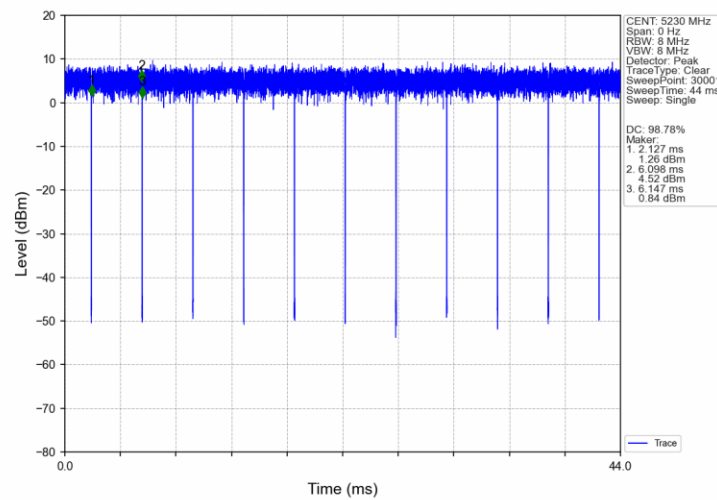
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



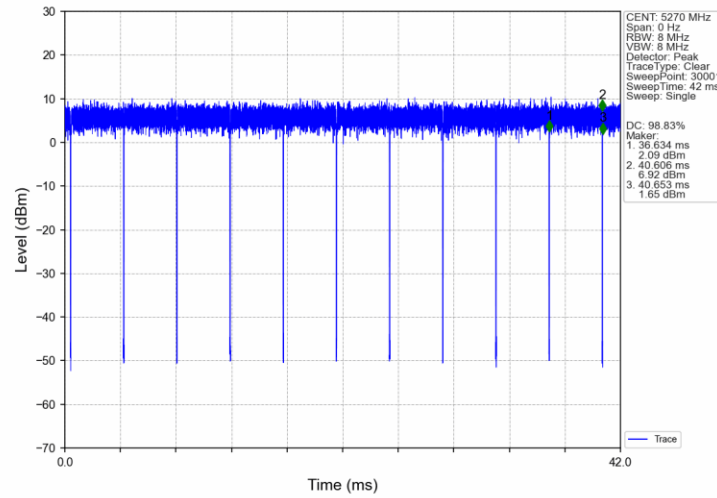
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



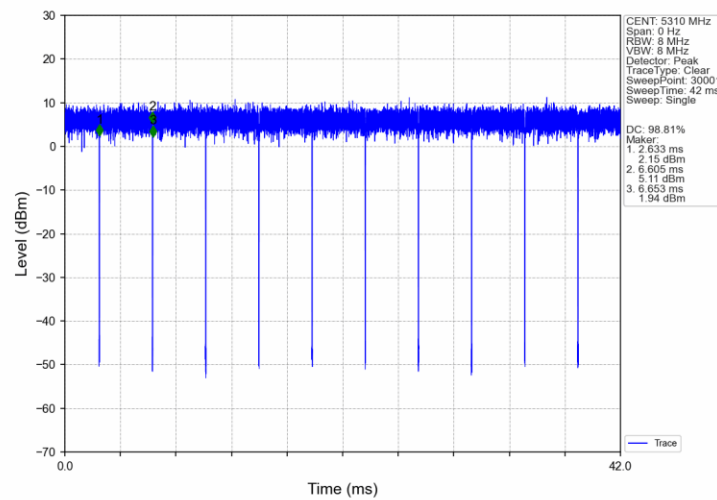
802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



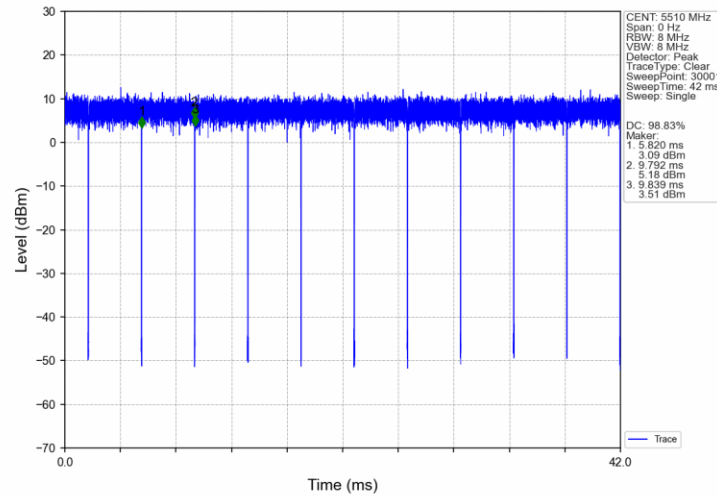
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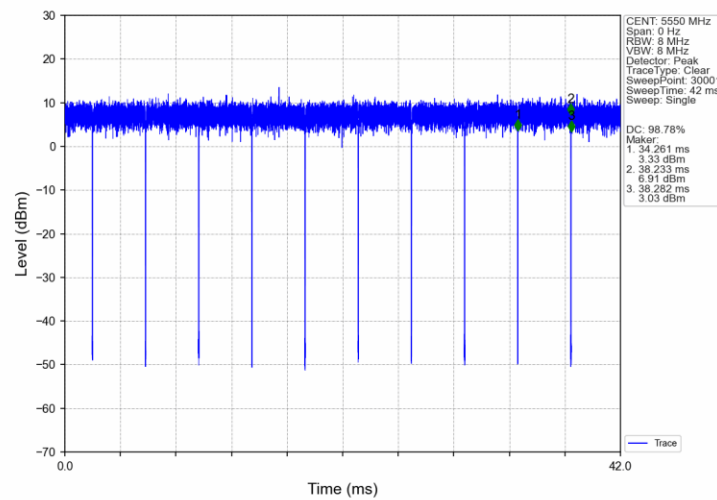
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



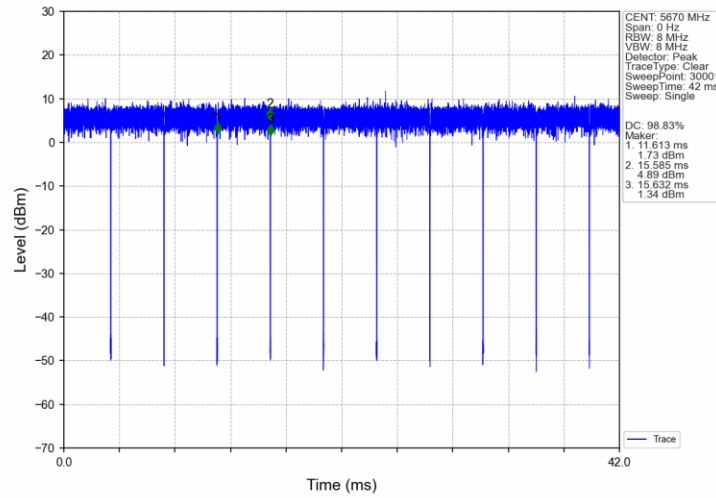
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



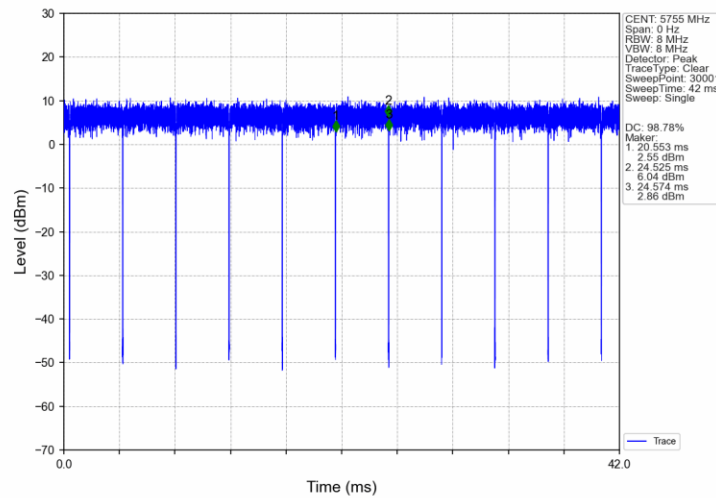
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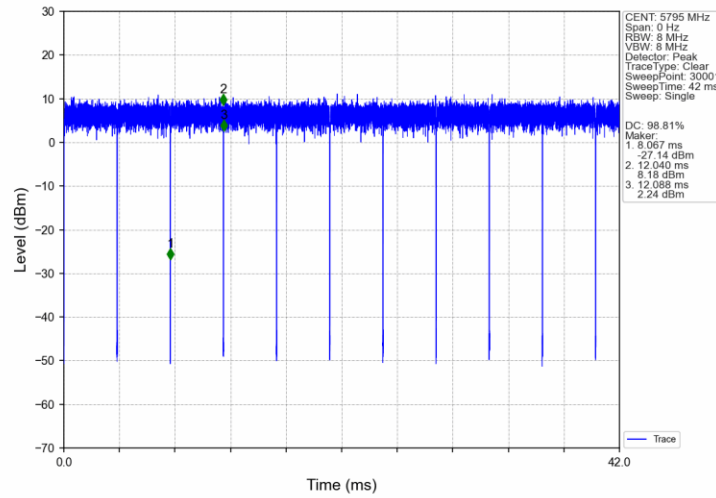
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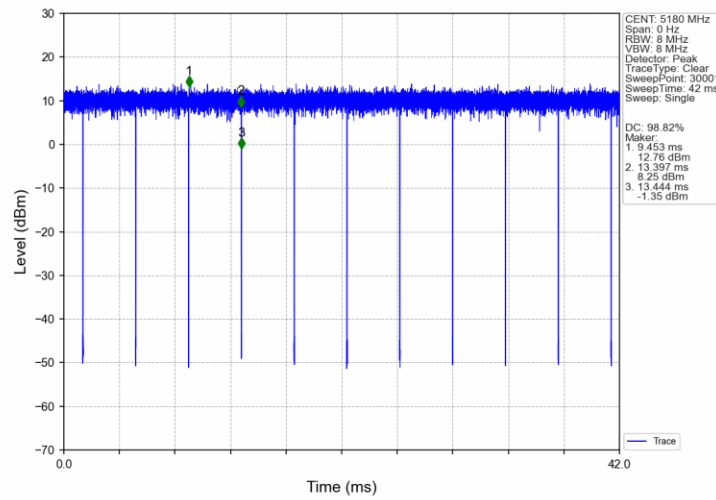
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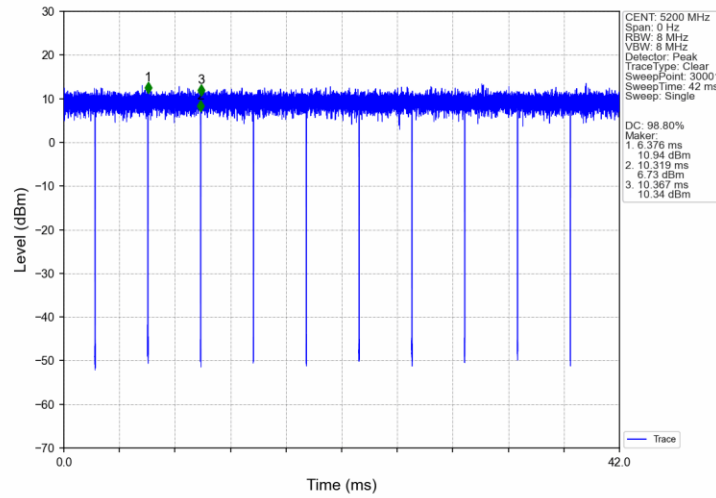
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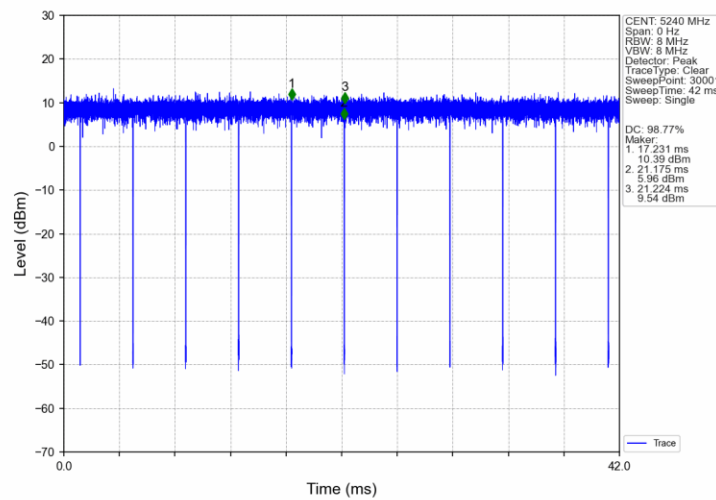
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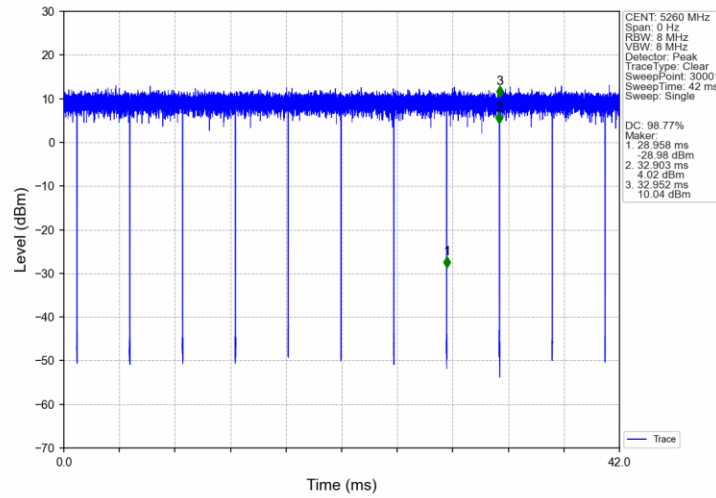
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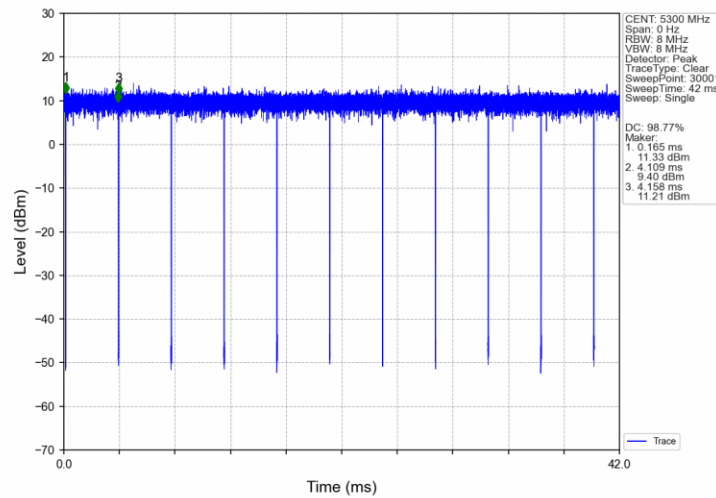
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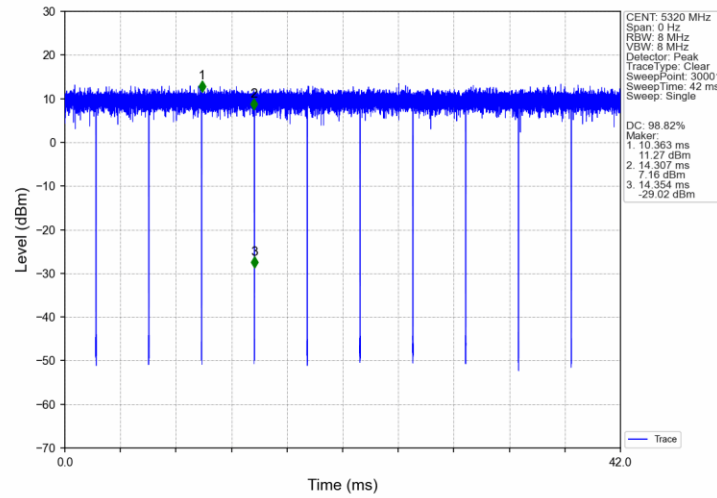
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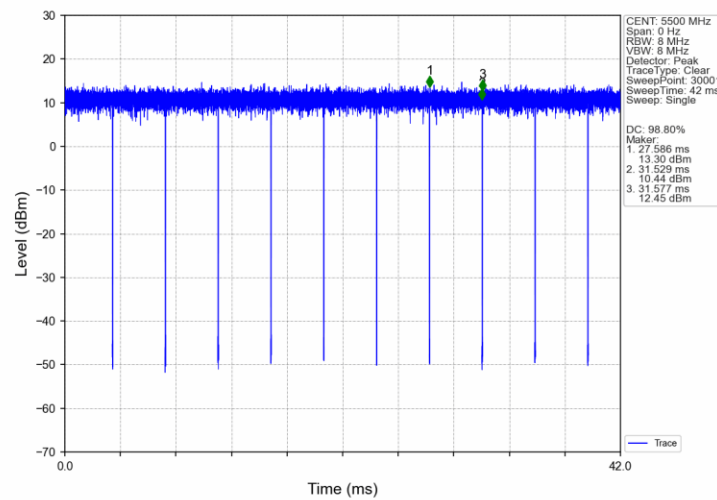
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



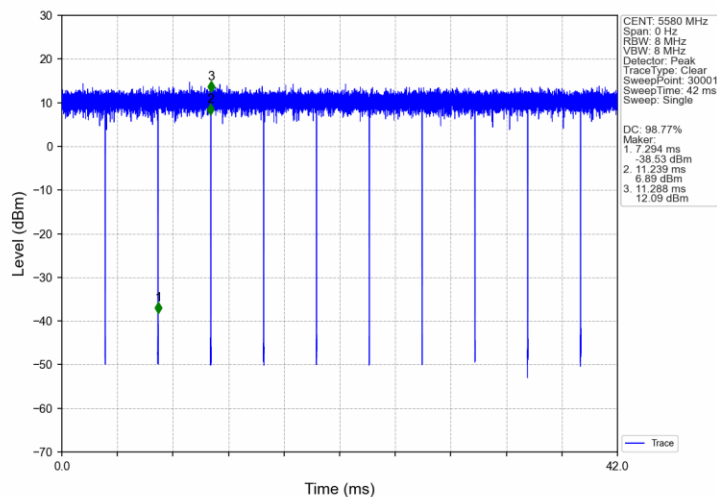
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



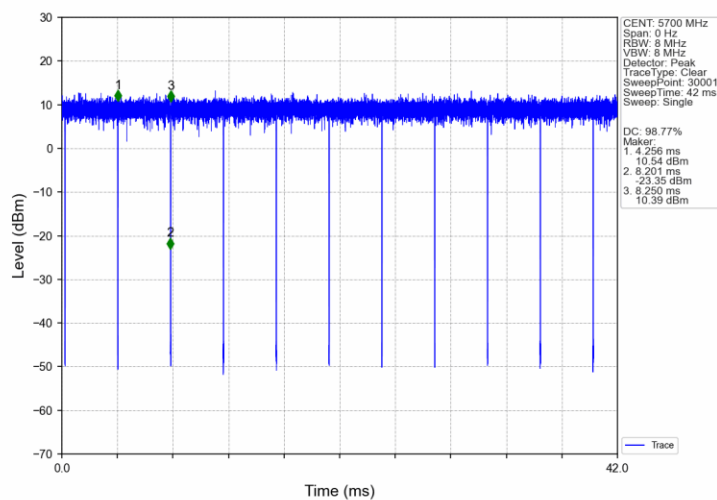
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



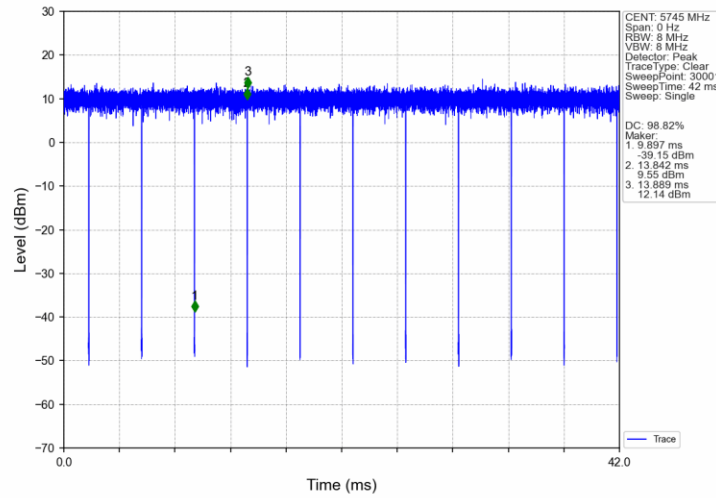
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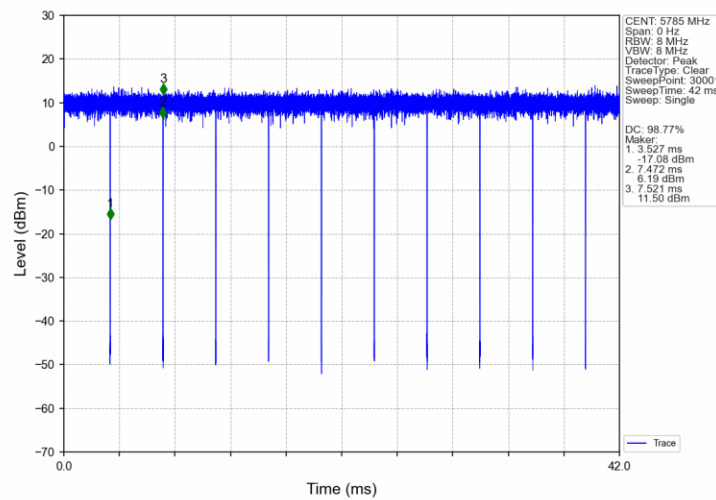
802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



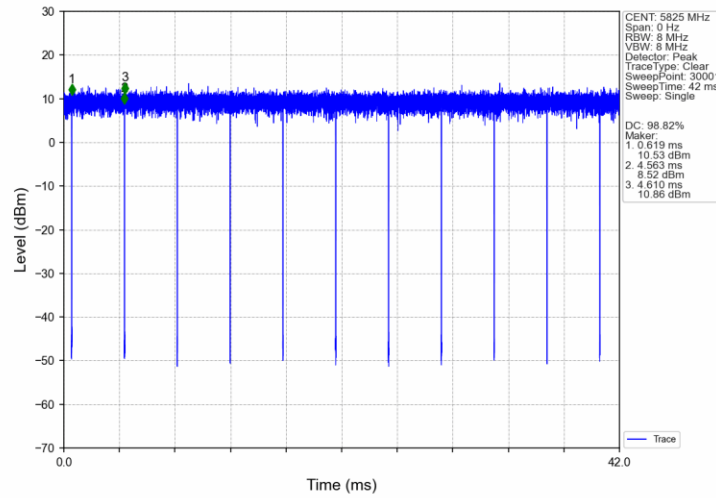
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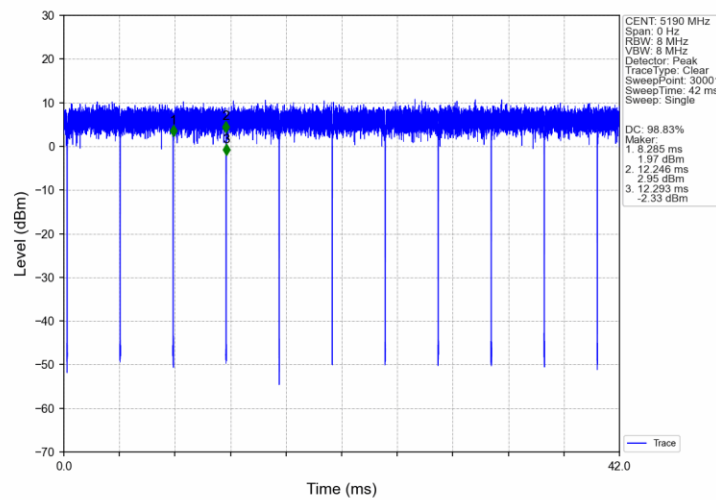
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



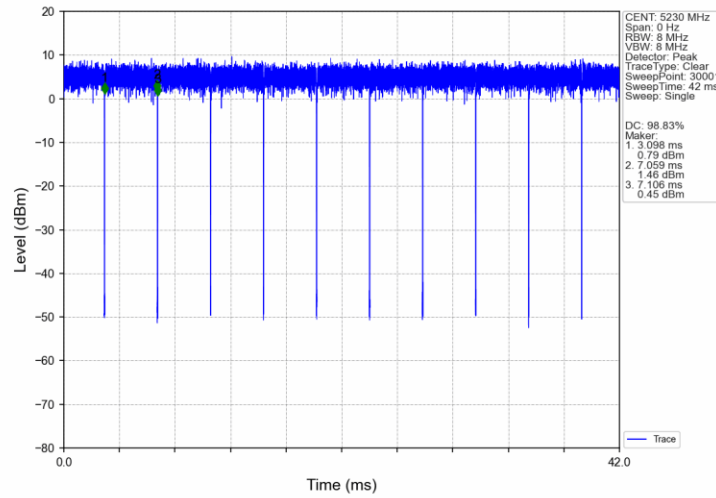
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



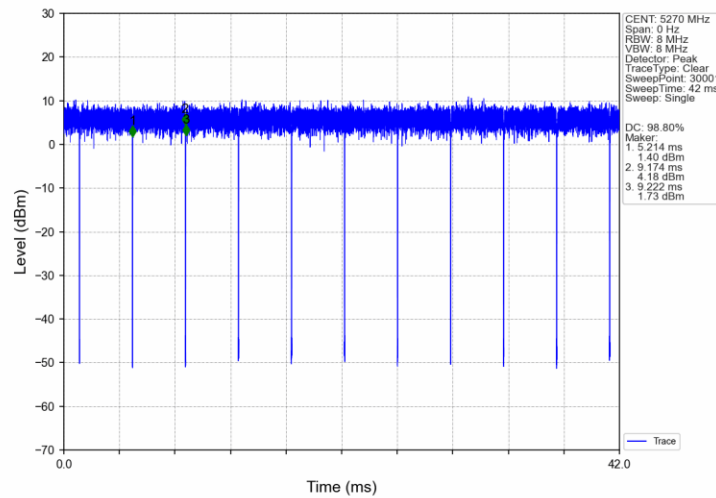
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



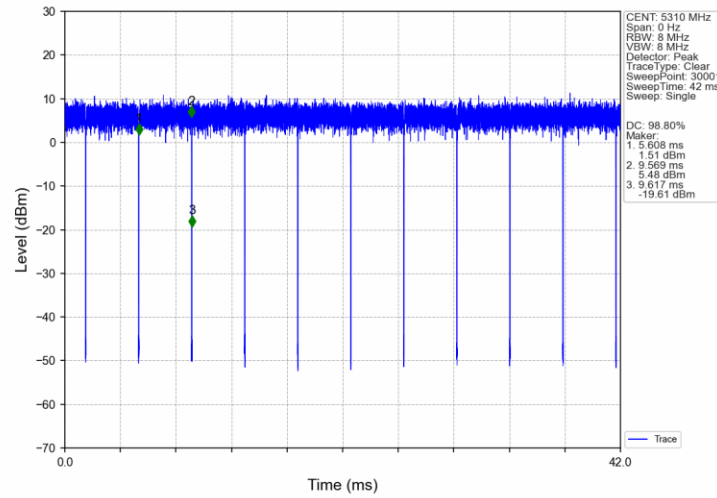
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



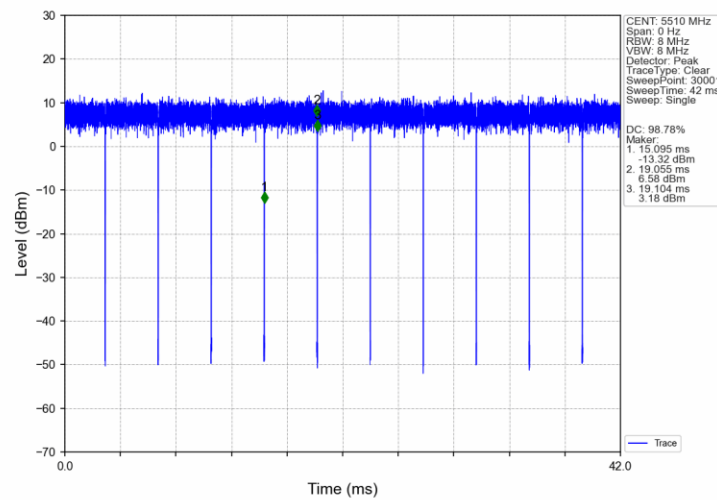
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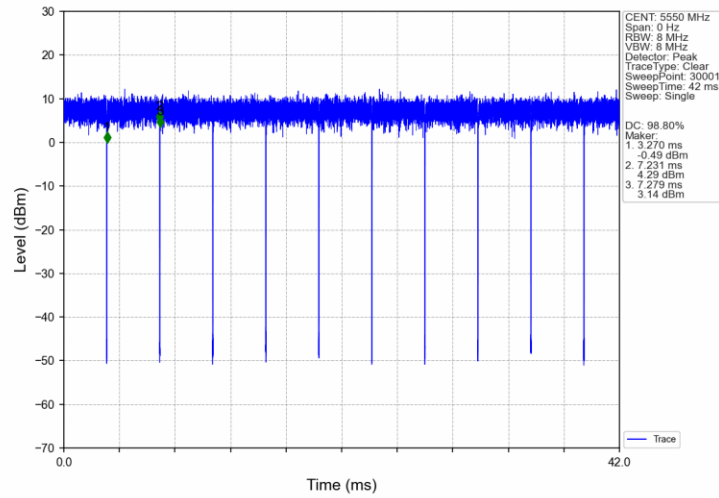
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



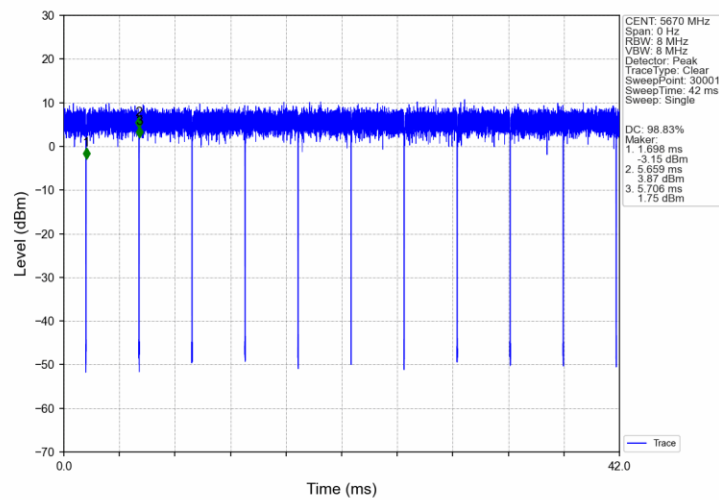
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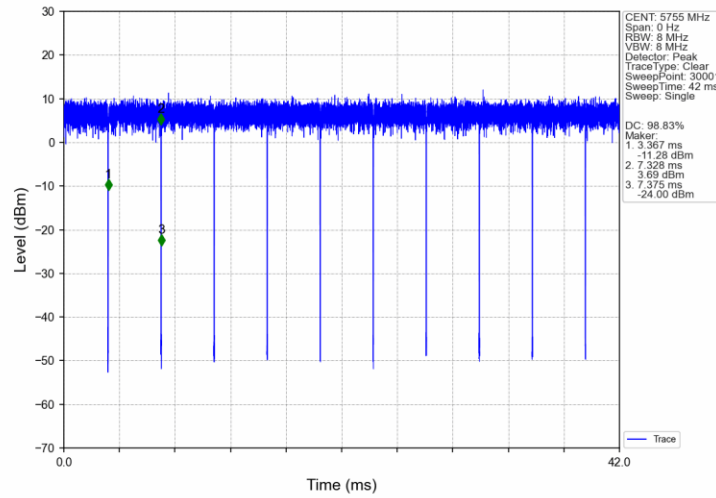
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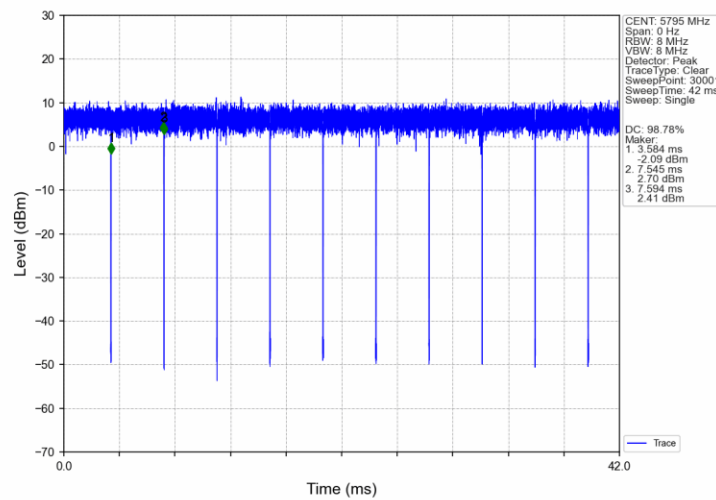
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.298	/	Pass
		5200	1	17.344	/	Pass
		5240	1	17.319	/	Pass
		5260	1	17.280	/	Pass
		5300	1	17.211	/	Pass
		5320	1	17.390	/	Pass
		5500	1	17.266	/	Pass
		5580	1	17.226	/	Pass
		5700	1	17.318	/	Pass
		5745	1	17.259	/	Pass
		5785	1	17.281	/	Pass
		5825	1	17.356	/	Pass
802.11n (HT20)	SISO	5180	1	18.291	/	Pass
		5200	1	18.314	/	Pass
		5240	1	18.248	/	Pass
		5260	1	18.247	/	Pass
		5300	1	18.254	/	Pass
		5320	1	18.347	/	Pass
		5500	1	18.294	/	Pass
		5580	1	18.252	/	Pass
		5700	1	18.307	/	Pass
		5745	1	18.214	/	Pass
		5785	1	18.251	/	Pass
		5825	1	18.352	/	Pass
802.11n (HT40)	SISO	5190	1	36.280	/	Pass
		5230	1	36.400	/	Pass
		5270	1	36.339	/	Pass
		5310	1	36.350	/	Pass
		5510	1	36.341	/	Pass
		5550	1	36.272	/	Pass
		5670	1	36.281	/	Pass
		5755	1	36.274	/	Pass
		5795	1	36.354	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.233	/	Pass
		5200	1	18.274	/	Pass
		5240	1	18.269	/	Pass
		5260	1	18.267	/	Pass
		5300	1	18.201	/	Pass
		5320	1	18.335	/	Pass
		5500	1	18.232	/	Pass
		5580	1	18.309	/	Pass
		5700	1	18.325	/	Pass
		5745	1	18.213	/	Pass
		5785	1	18.276	/	Pass
		5825	1	18.300	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.329	/	Pass
		5230	1	36.378	/	Pass

		5270	1	36.305	/	Pass
		5310	1	36.363	/	Pass
		5510	1	36.357	/	Pass
		5550	1	36.271	/	Pass
		5670	1	36.337	/	Pass
		5755	1	36.356	/	Pass
		5795	1	36.312	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	23.972	/	Pass
		5200	1	23.821	/	Pass
		5240	1	23.849	/	Pass
		5260	1	23.609	/	Pass
		5300	1	23.714	/	Pass
		5320	1	24.523	/	Pass
		5500	1	24.009	/	Pass
		5580	1	23.865	/	Pass
802.11n (HT20)	SISO	5700	1	24.147	/	Pass
		5180	1	23.630	/	Pass
		5200	1	23.781	/	Pass
		5240	1	23.491	/	Pass
		5260	1	24.561	/	Pass
		5300	1	23.803	/	Pass
		5320	1	23.786	/	Pass
		5500	1	24.349	/	Pass
802.11n (HT40)	SISO	5580	1	25.086	/	Pass
		5700	1	24.321	/	Pass
		5190	1	43.204	/	Pass
		5230	1	43.106	/	Pass
		5270	1	42.804	/	Pass
		5310	1	43.199	/	Pass
		5510	1	43.503	/	Pass
		5550	1	43.101	/	Pass
802.11ac (VHT20)	SISO	5670	1	42.390	/	Pass
		5180	1	23.441	/	Pass
		5200	1	24.155	/	Pass
		5240	1	24.269	/	Pass
		5260	1	24.699	/	Pass
		5300	1	24.724	/	Pass
		5320	1	24.300	/	Pass
		5500	1	24.184	/	Pass
802.11ac (VHT40)	SISO	5580	1	24.457	/	Pass
		5700	1	24.244	/	Pass
		5190	1	43.477	/	Pass
		5230	1	43.231	/	Pass
		5270	1	42.711	/	Pass
		5310	1	43.502	/	Pass
		5510	1	43.043	/	Pass
		5550	1	43.075	/	Pass
		5670	1	42.602	/	Pass

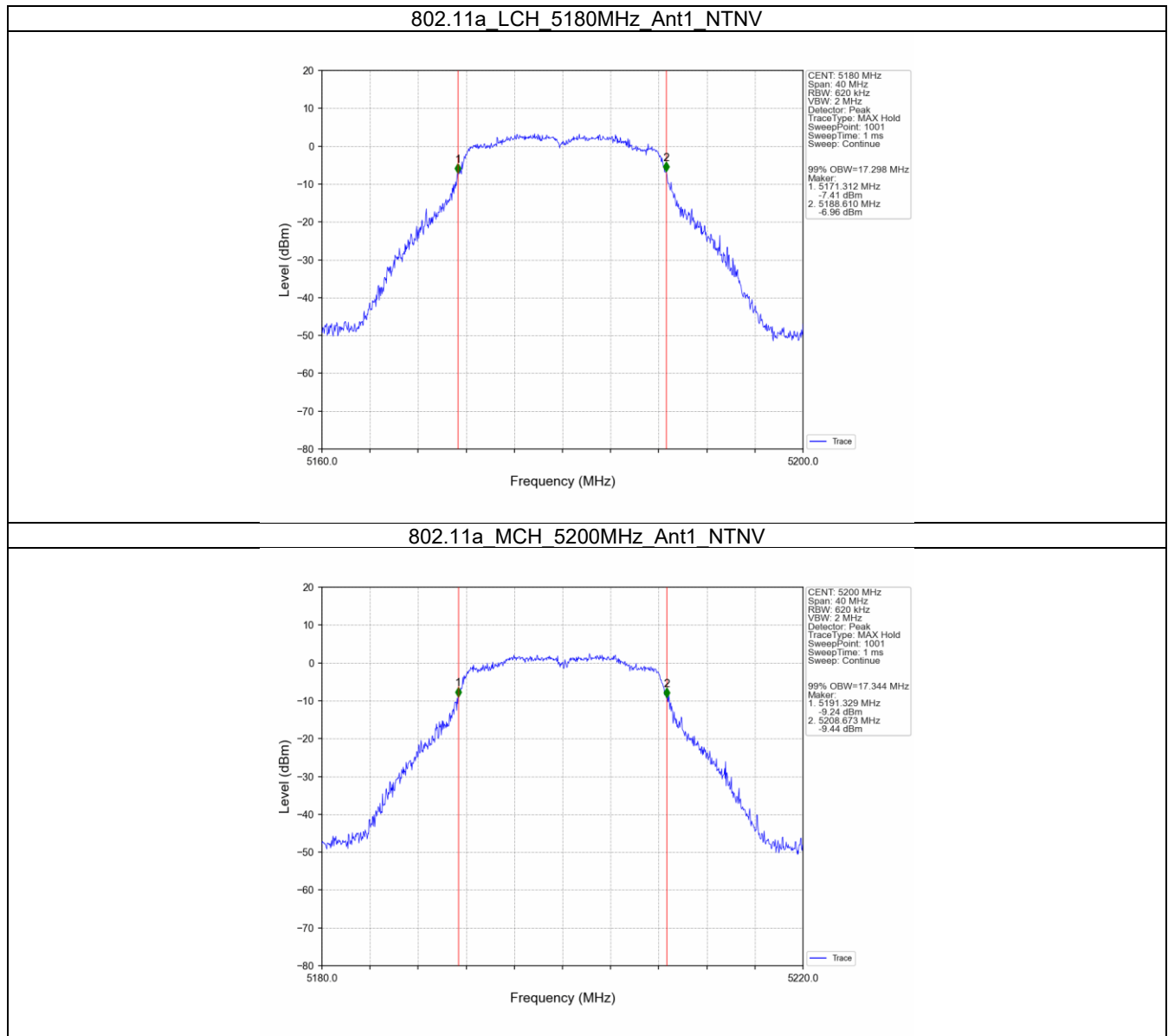
2.1.3 6dB BW

Mode	TX	Frequency	ANT	6dB Bandwidth (MHz)	Verdict
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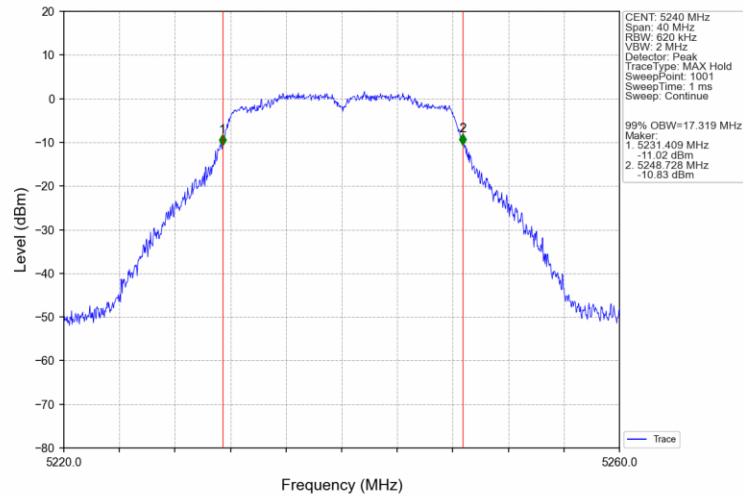
	Type	(MHz)		Result	Limit	
802.11a	SISO	5745	1	15.052	≥ 0.5	Pass
		5785	1	13.516	≥ 0.5	Pass
		5825	1	16.054	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	16.600	≥ 0.5	Pass
		5785	1	14.717	≥ 0.5	Pass
		5825	1	17.271	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	31.352	≥ 0.5	Pass
		5795	1	35.253	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.664	≥ 0.5	Pass
		5785	1	15.023	≥ 0.5	Pass
		5825	1	14.746	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	32.594	≥ 0.5	Pass
		5795	1	32.428	≥ 0.5	Pass

2.2 Test Graph

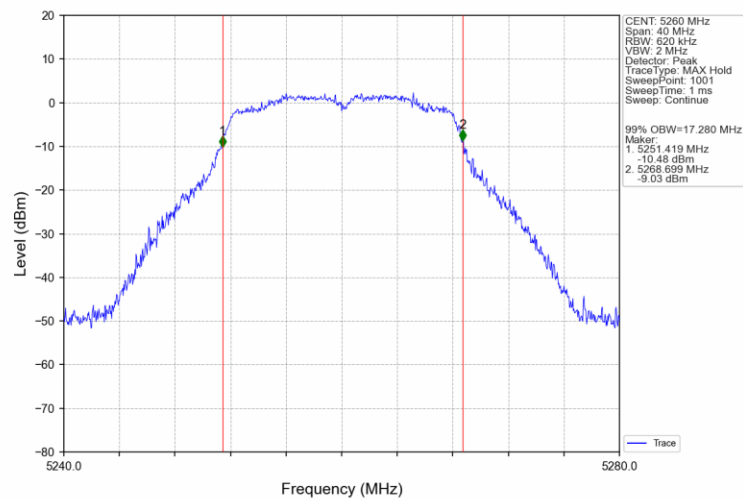
2.2.1 OBW



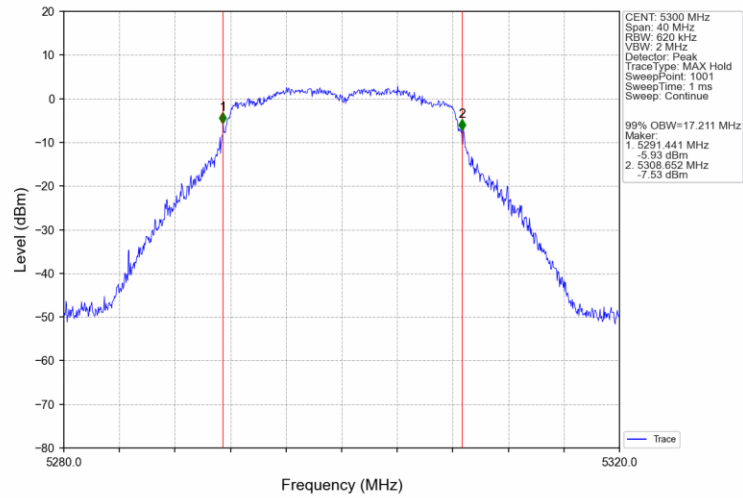
802.11a_HCH_5240MHz_Ant1_NTNV



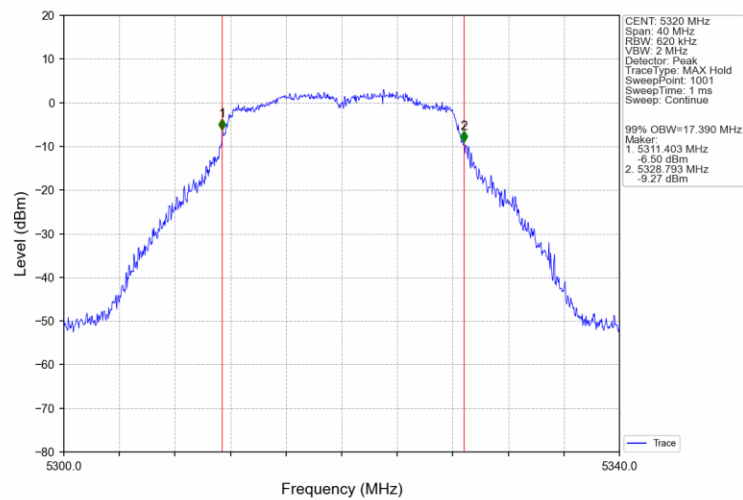
802.11a_LCH_5260MHz_Ant1_NTNV



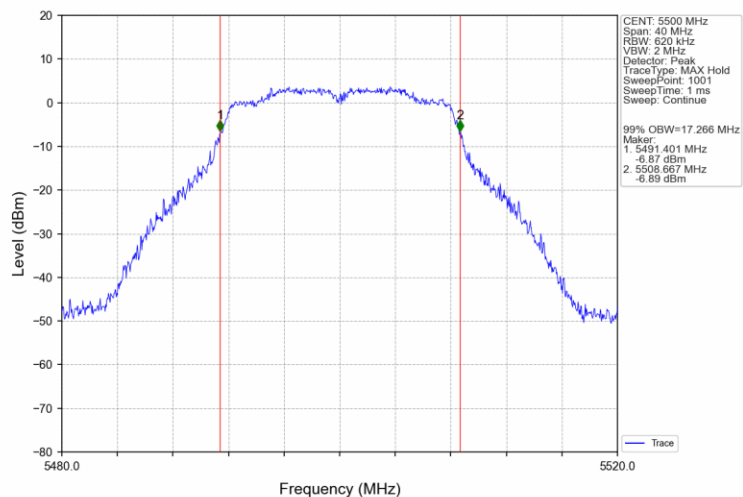
802.11a_MCH_5300MHz_Ant1_NTNV



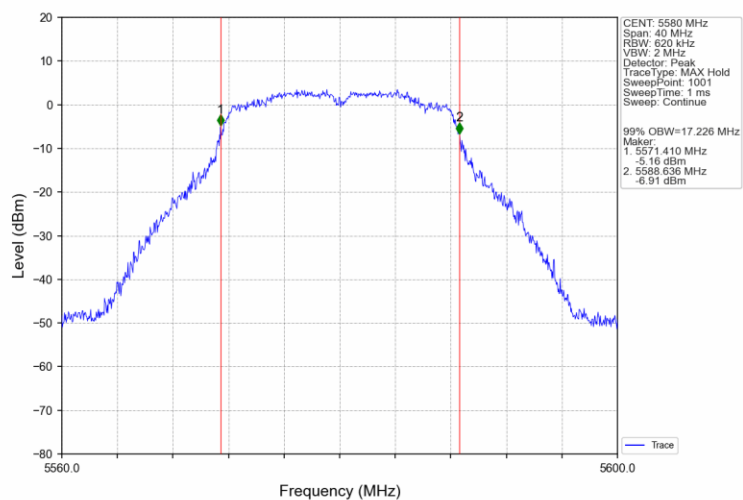
802.11a_HCH_5320MHz_Ant1_NTNV



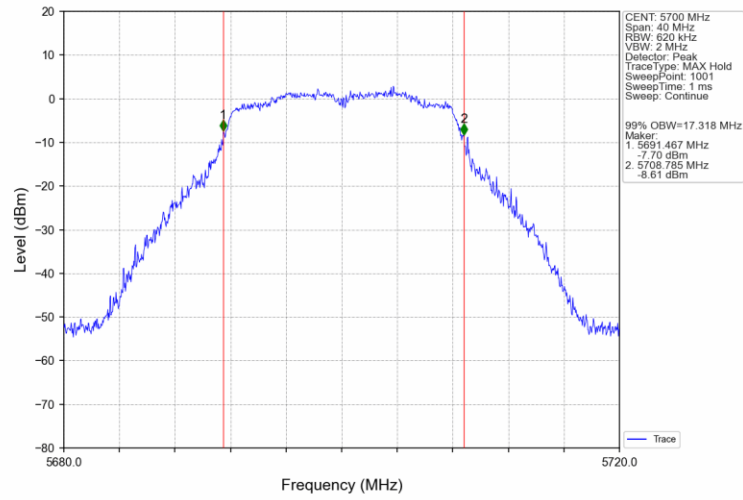
802.11a_LCH_5500MHz_Ant1_NTNV



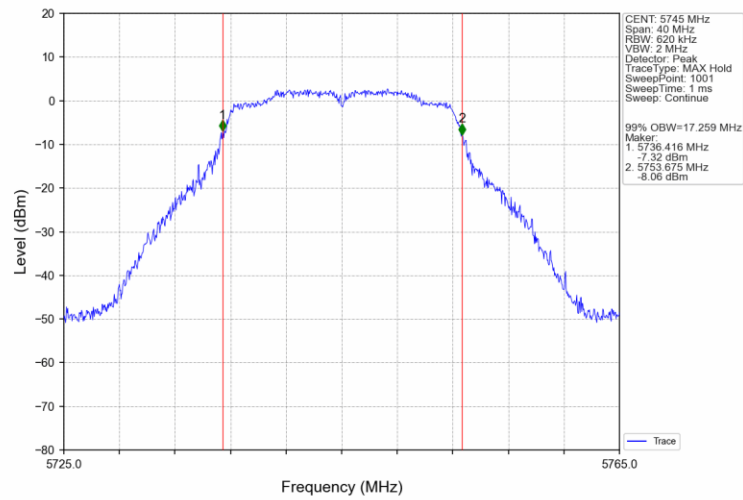
802.11a_MCH_5580MHz_Ant1_NTNV



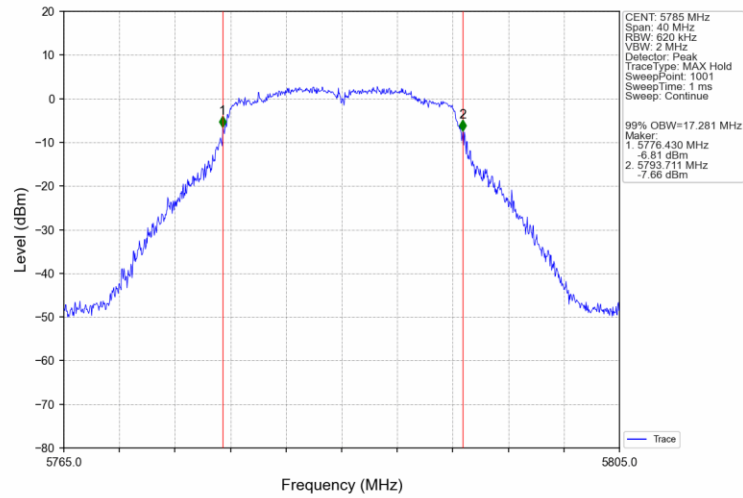
802.11a_HCH_5700MHz_Ant1_NTNV



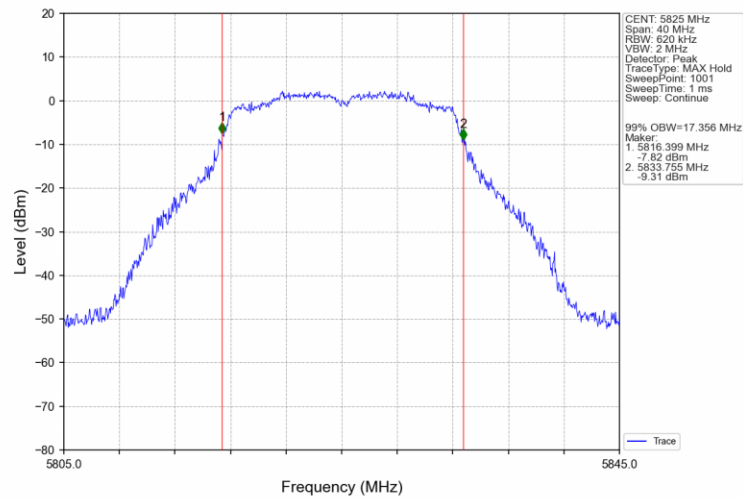
802.11a_LCH_5745MHz_Ant1_NTNV



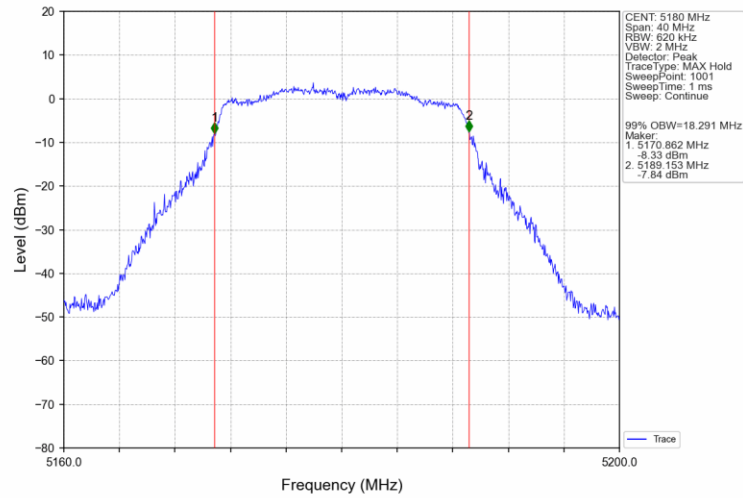
802.11a_MCH_5785MHz_Ant1_NTNV



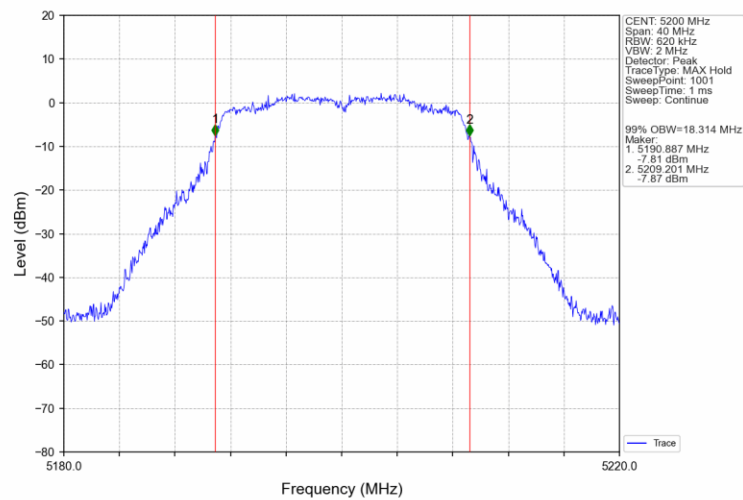
802.11a_HCH_5825MHz_Ant1_NTNV



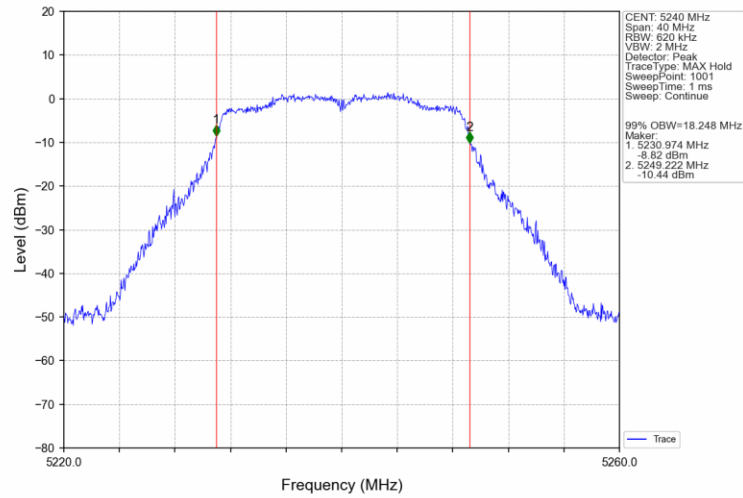
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



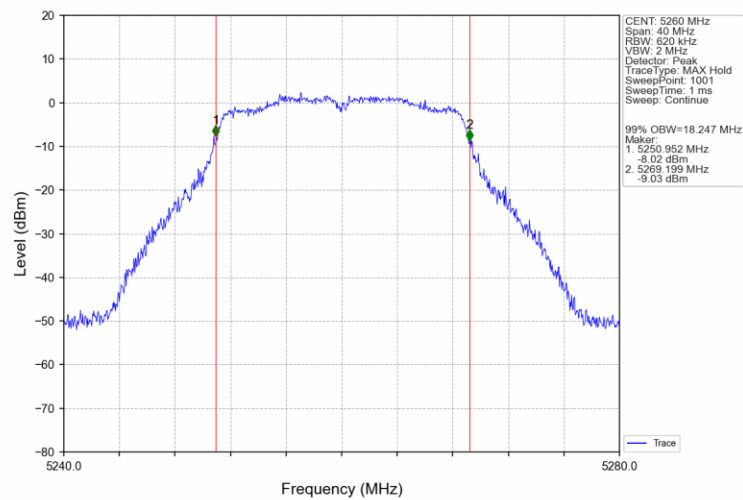
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



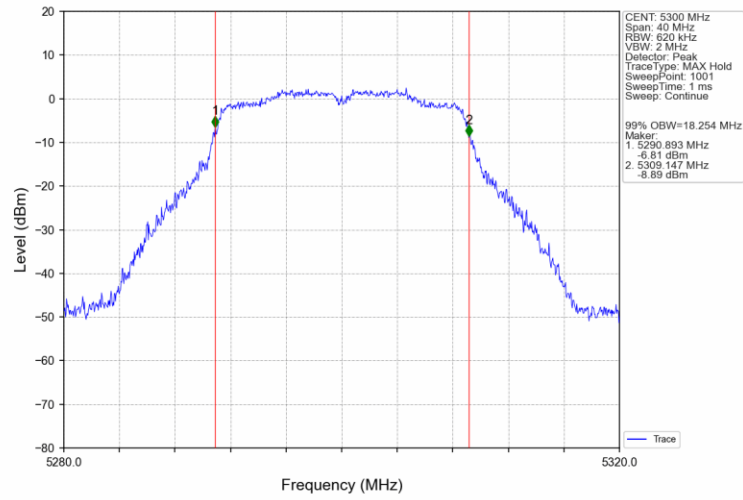
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



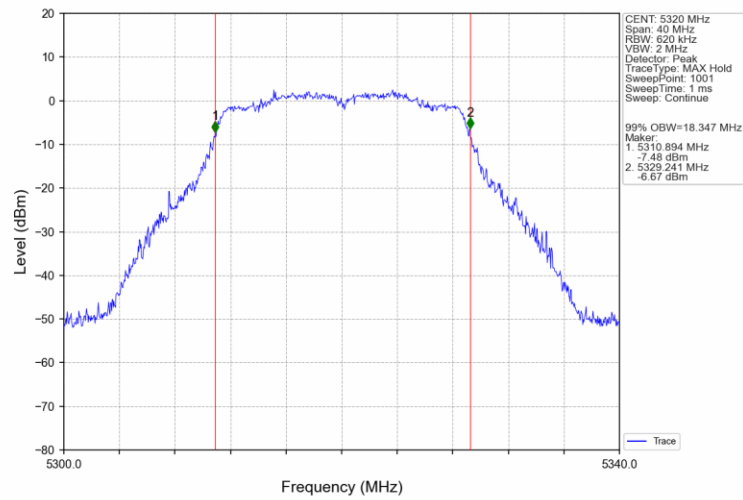
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



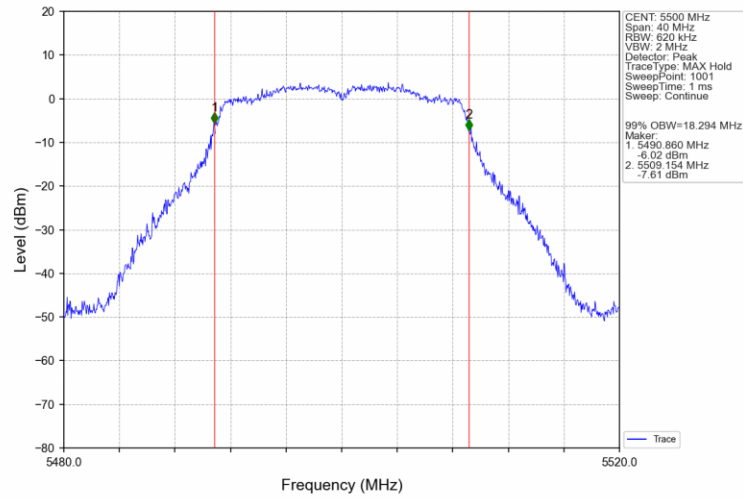
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV

