

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/2

Report No.:FYCR260800049104

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2. Bandwidth

2.1 Test Result

2.1.1 OBW(report only)

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.736	/	Pass
		5200	1	16.710	/	Pass
		5240	1	16.708	/	Pass
		5260	1	16.699	/	Pass
		5300	1	16.713	/	Pass
		5320	1	16.738	/	Pass
		5500	1	16.733	/	Pass
		5580	1	16.724	/	Pass
		5700	1	16.725	/	Pass
		5745	1	16.723	/	Pass
		5785	1	16.738	/	Pass
		5825	1	16.743	/	Pass
		5720	1	16.726	/	Pass
802.11n (HT20)	SISO	5180	1	17.845	/	Pass
		5200	1	17.835	/	Pass
		5240	1	17.835	/	Pass
		5260	1	17.808	/	Pass
		5300	1	17.841	/	Pass
		5320	1	17.795	/	Pass
		5500	1	17.863	/	Pass
		5580	1	17.885	/	Pass
		5700	1	17.863	/	Pass
		5745	1	17.887	/	Pass
		5785	1	17.852	/	Pass
		5825	1	17.885	/	Pass
		5720	1	17.841	/	Pass
802.11ac (VHT20)	SISO	5180	1	17.815	/	Pass
		5200	1	17.841	/	Pass
		5240	1	17.816	/	Pass
		5260	1	17.815	/	Pass
		5300	1	17.774	/	Pass



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		5320	1	17.860	/	Pass
		5500	1	17.798	/	Pass
		5580	1	17.827	/	Pass
		5700	1	17.873	/	Pass
		5745	1	17.839	/	Pass
		5785	1	17.831	/	Pass
		5825	1	17.832	/	Pass
		5720	1	17.863	/	Pass



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2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	21.223	/	Pass
		5200	1	21.287	/	Pass
		5240	1	21.595	/	Pass
		5260	1	21.480	/	Pass
		5300	1	21.429	/	Pass
		5320	1	21.566	/	Pass
		5500	1	21.438	/	Pass
		5580	1	21.585	/	Pass
		5700	1	21.491	/	Pass
		5720	1	21.480	/	Pass
802.11n (HT20)	SISO	5180	1	21.587	/	Pass
		5200	1	21.596	/	Pass
		5240	1	21.595	/	Pass
		5260	1	21.601	/	Pass
		5300	1	21.733	/	Pass
		5320	1	21.706	/	Pass
		5500	1	21.928	/	Pass
		5580	1	21.755	/	Pass
		5700	1	21.434	/	Pass
		5720	1	21.683	/	Pass
802.11ac (VHT20)	SISO	5180	1	21.509	/	Pass
		5200	1	21.635	/	Pass
		5240	1	21.584	/	Pass
		5260	1	21.651	/	Pass
		5300	1	21.635	/	Pass
		5320	1	21.779	/	Pass
		5500	1	21.452	/	Pass
		5580	1	21.696	/	Pass
		5700	1	21.438	/	Pass
		5720	1	21.581	/	Pass



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2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.379	≥ 0.5	Pass
		5785	1	16.400	≥ 0.5	Pass
		5825	1	16.408	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.605	≥ 0.5	Pass
		5785	1	17.636	≥ 0.5	Pass
		5825	1	17.566	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.649	≥ 0.5	Pass
		5785	1	17.598	≥ 0.5	Pass
		5825	1	17.621	≥ 0.5	Pass



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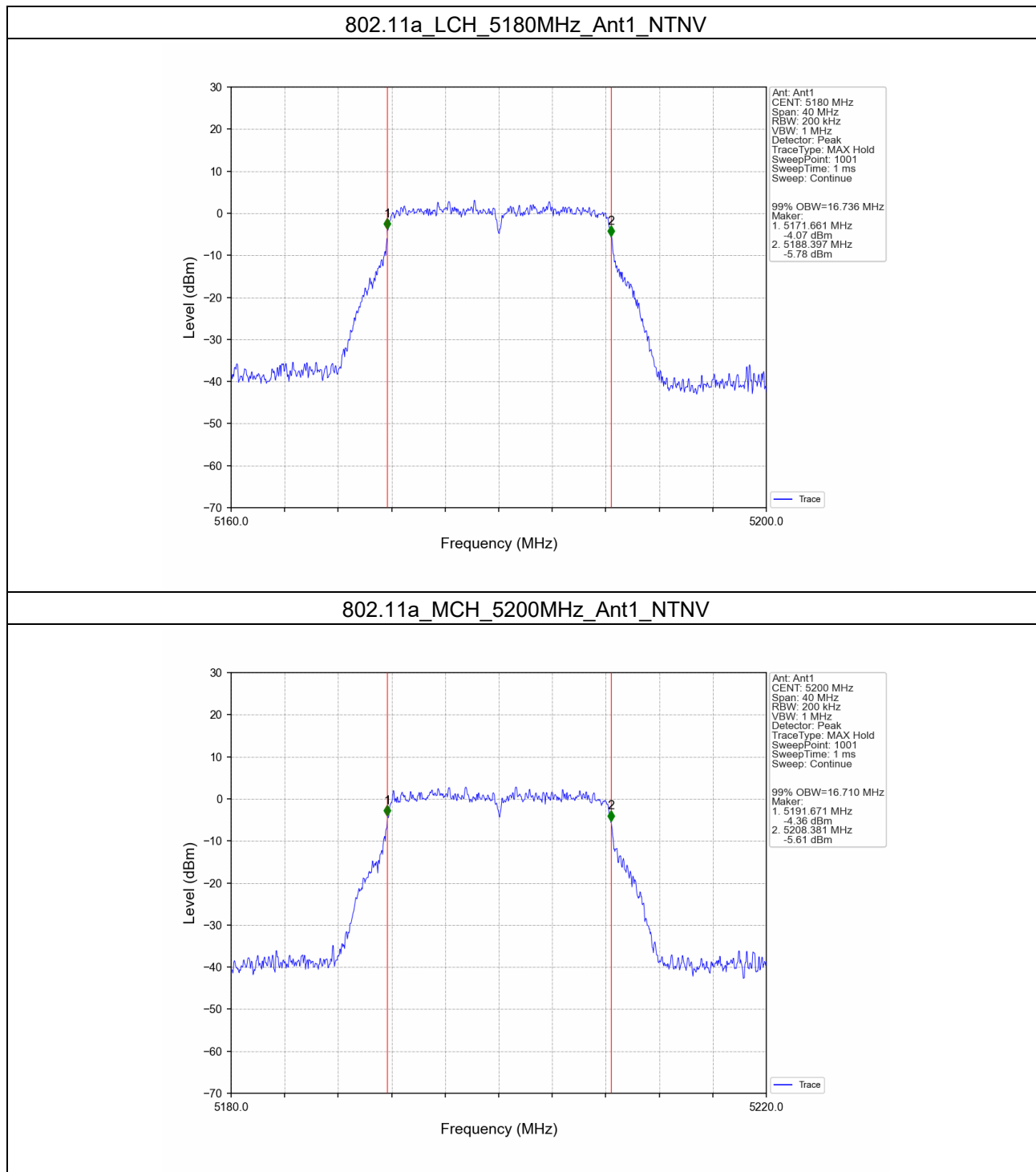
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2.2 Test Graph

2.2.1 OBW



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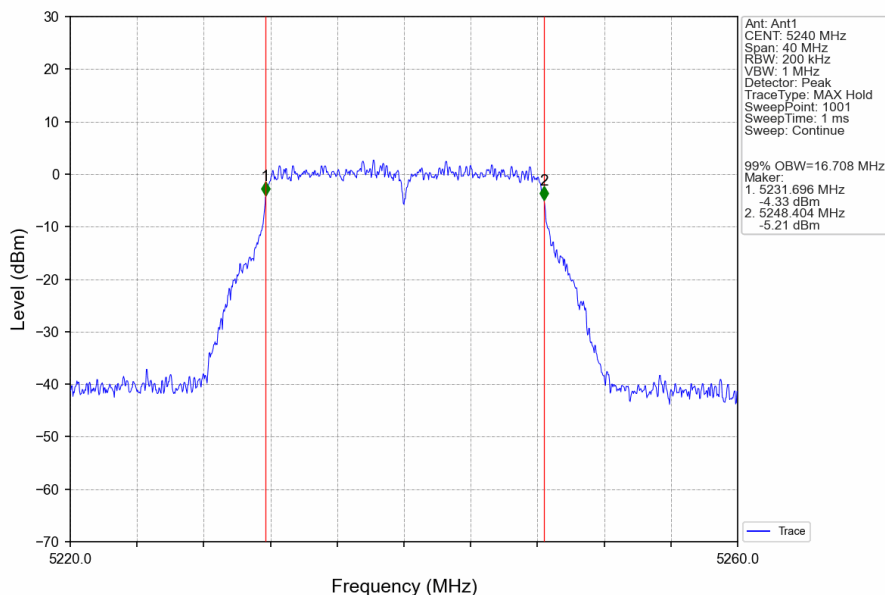
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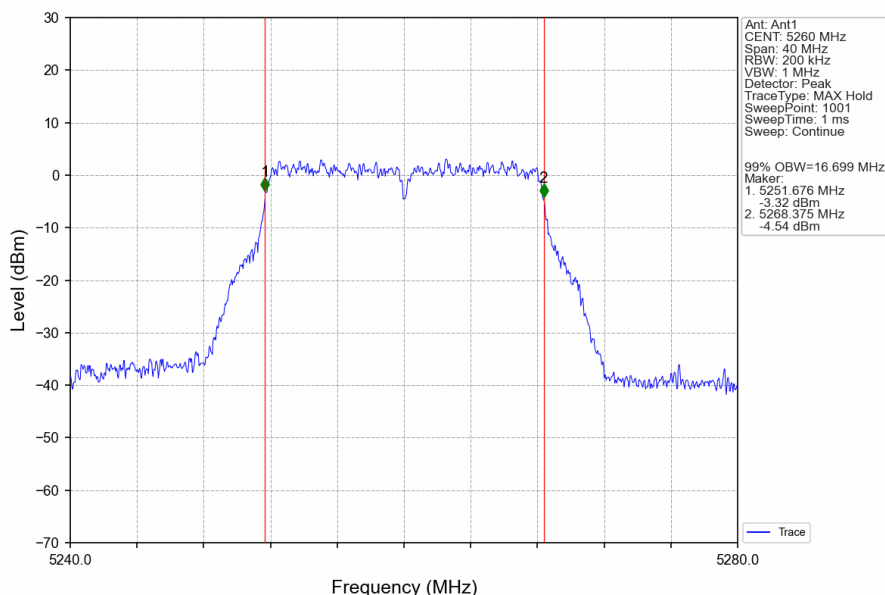
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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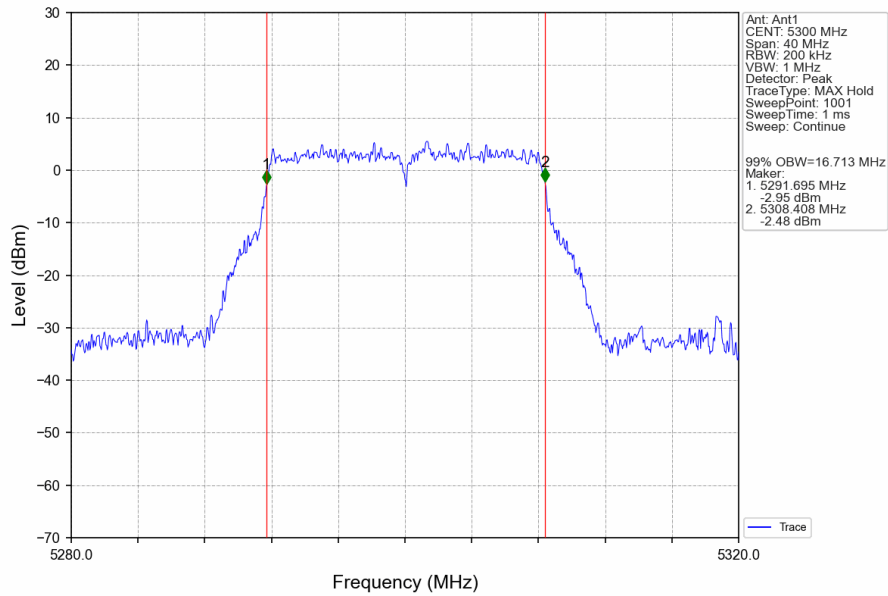
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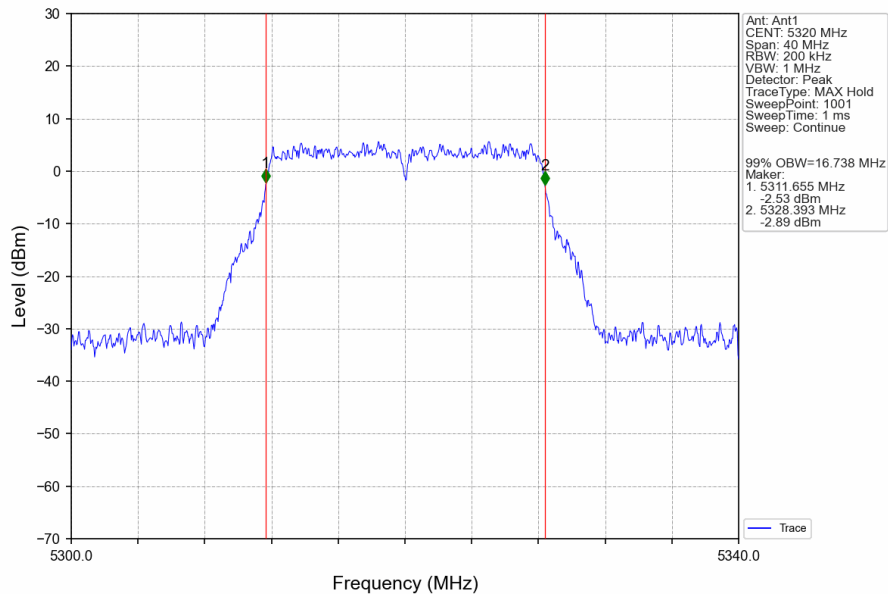
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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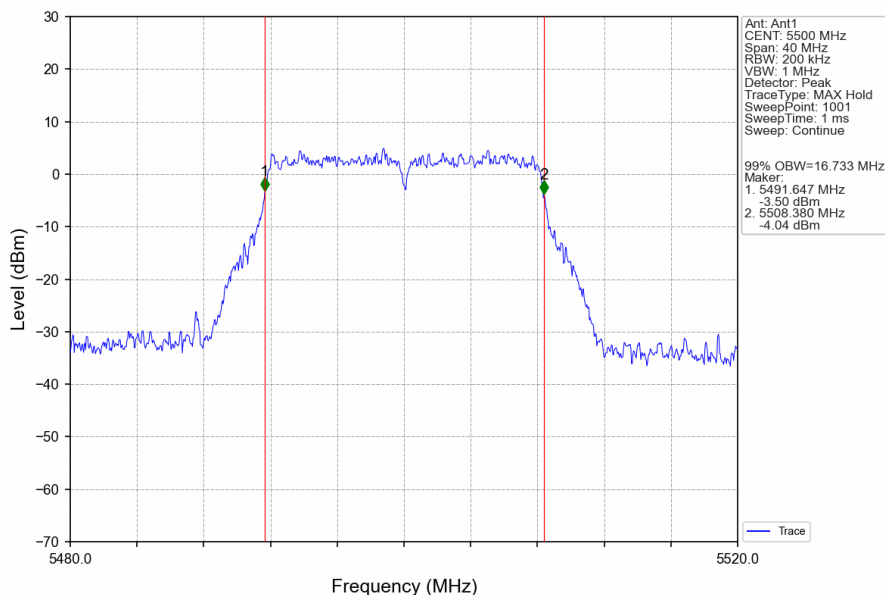
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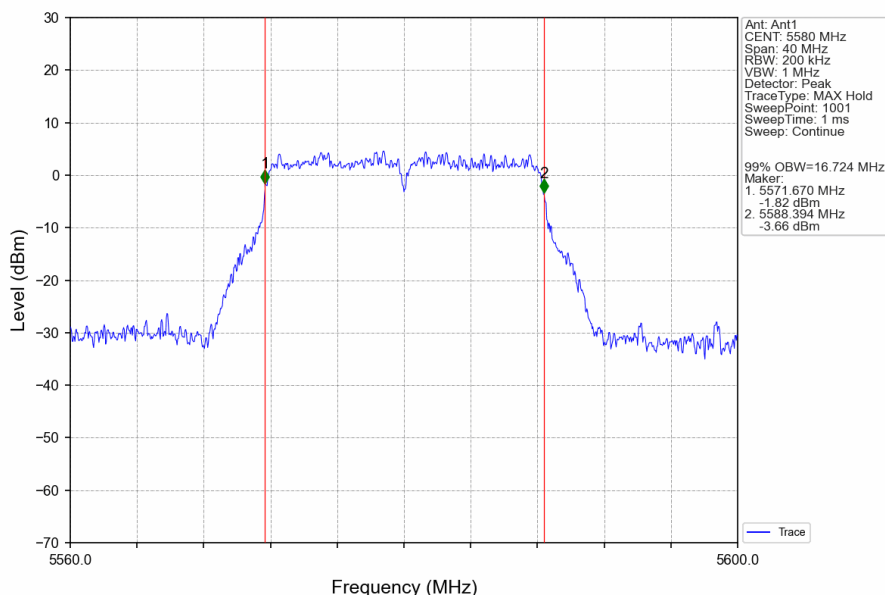
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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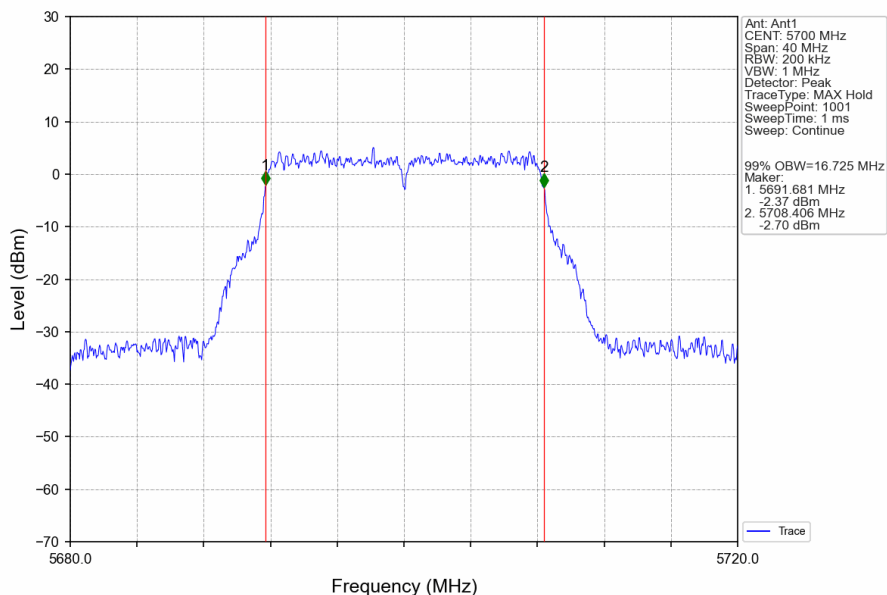
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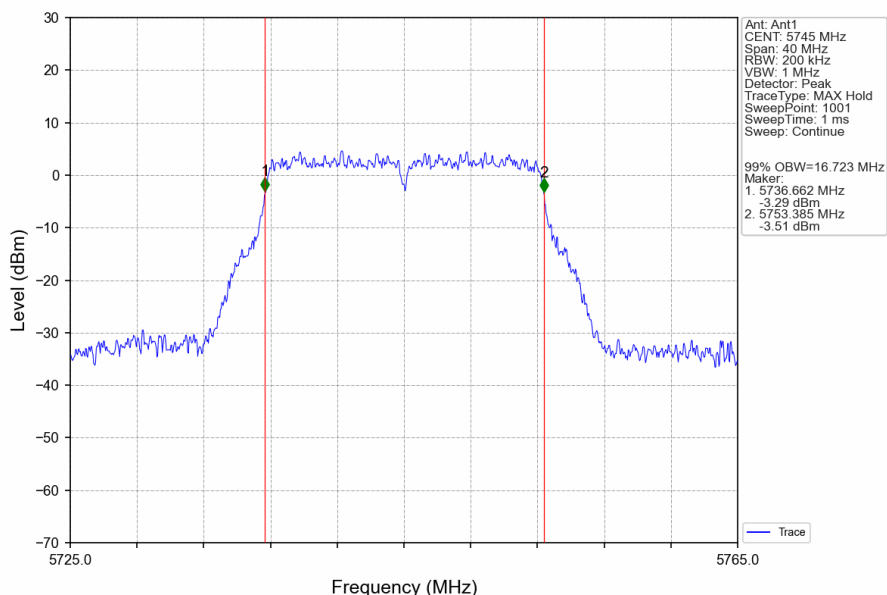
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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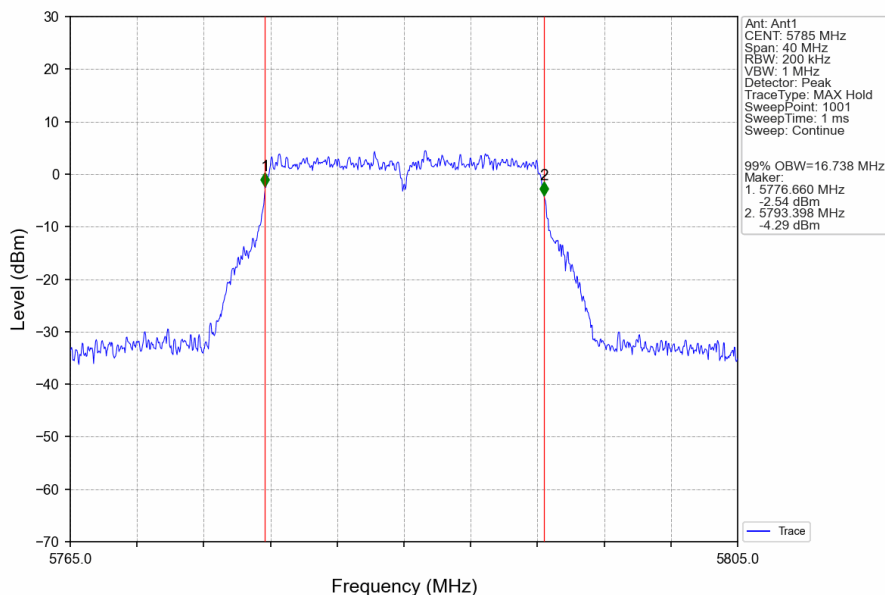
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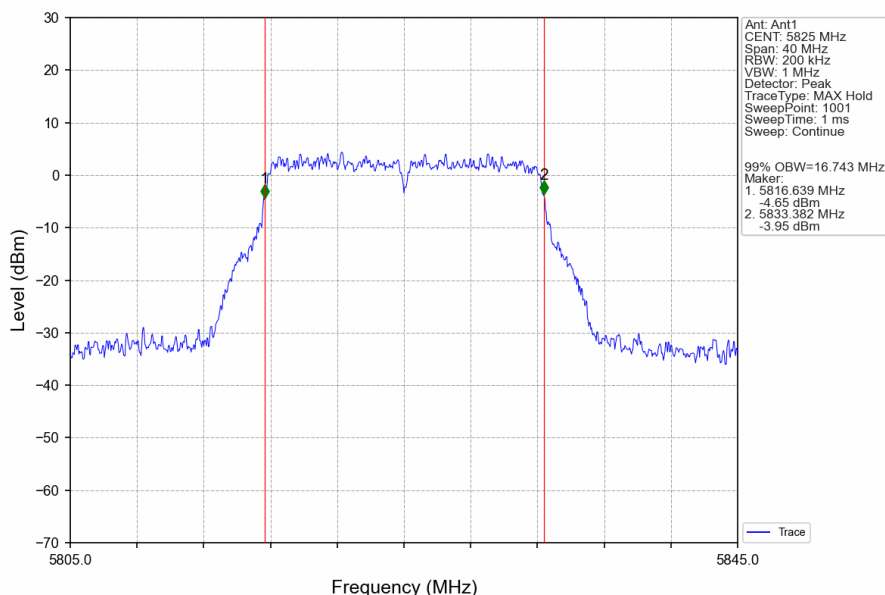
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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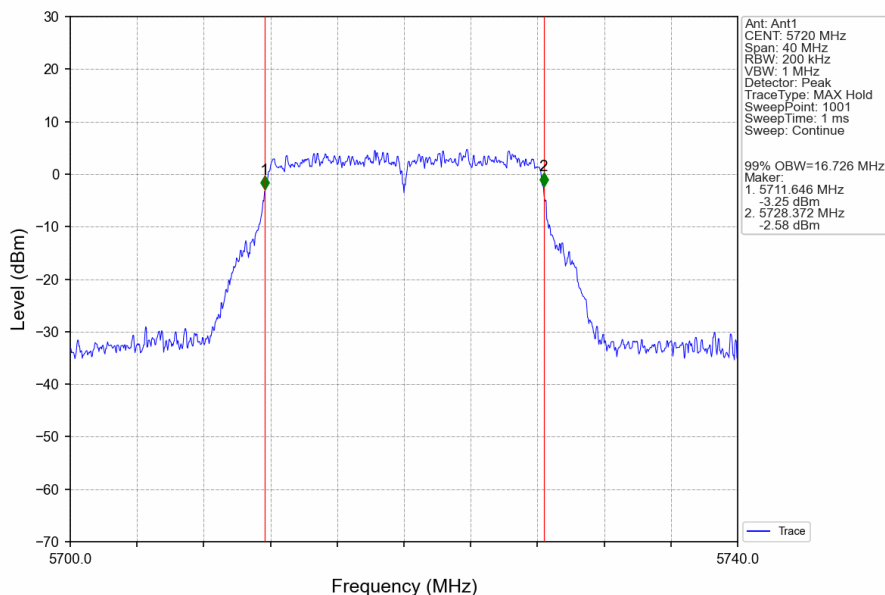
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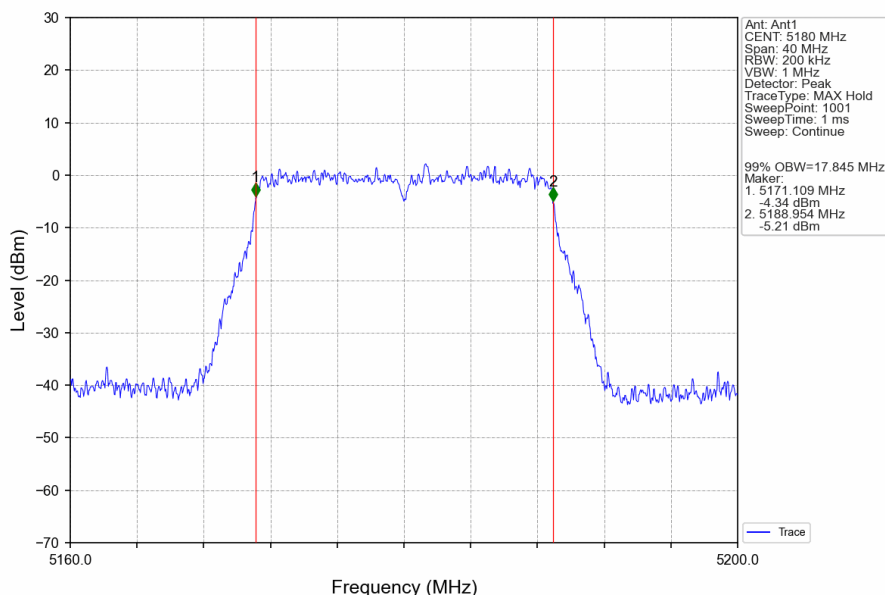
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802.11a_HCH_5720MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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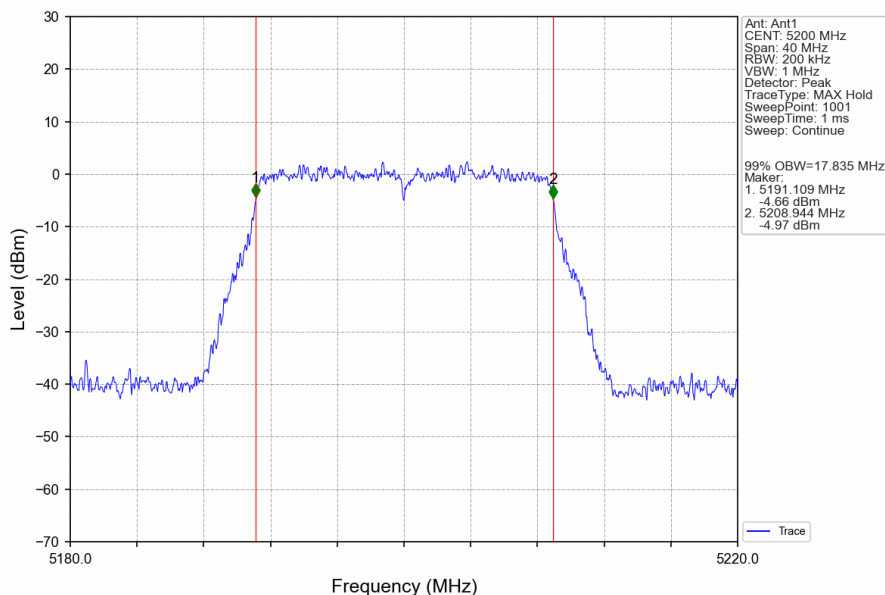
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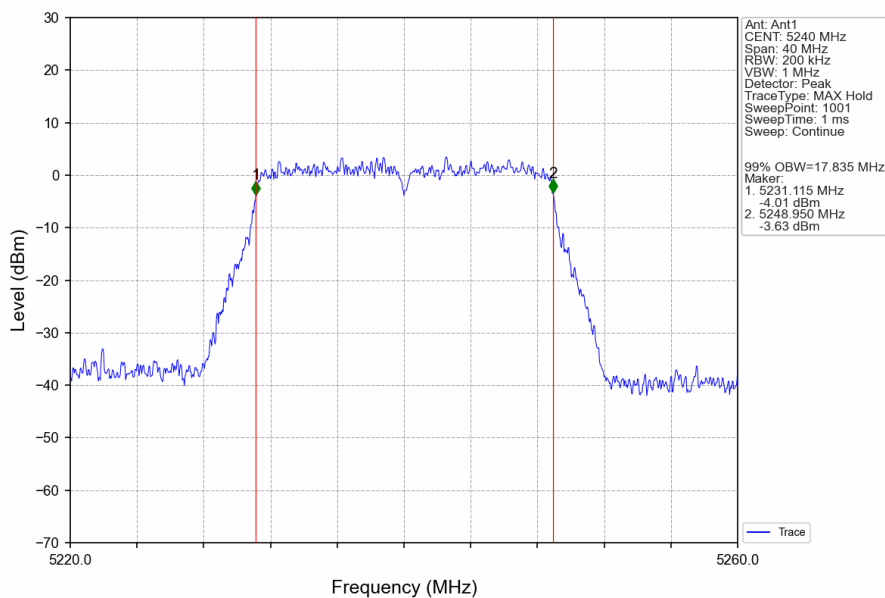
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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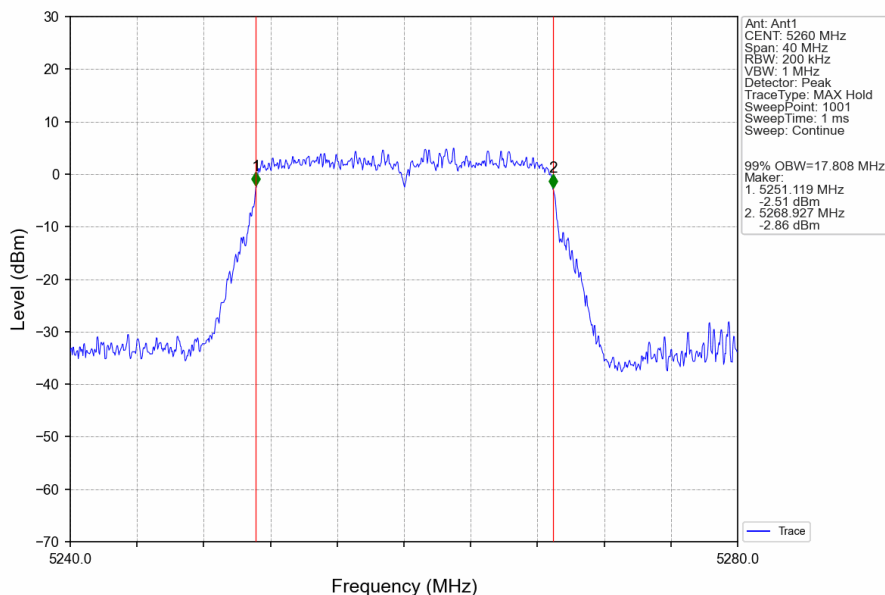
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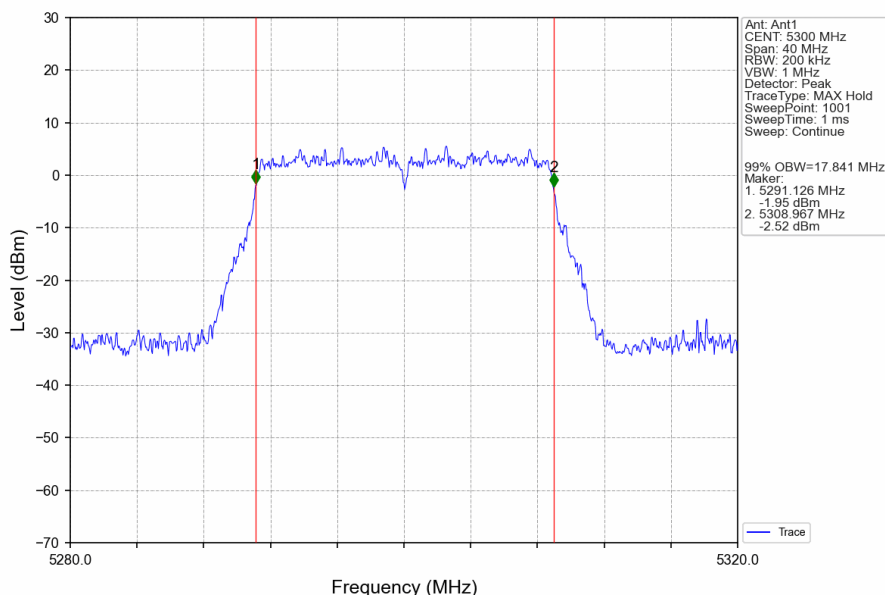
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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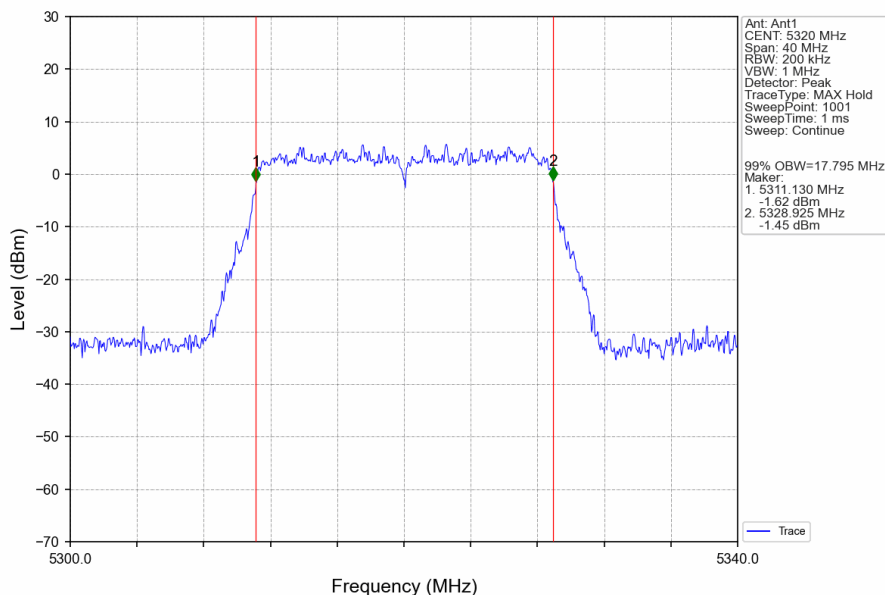
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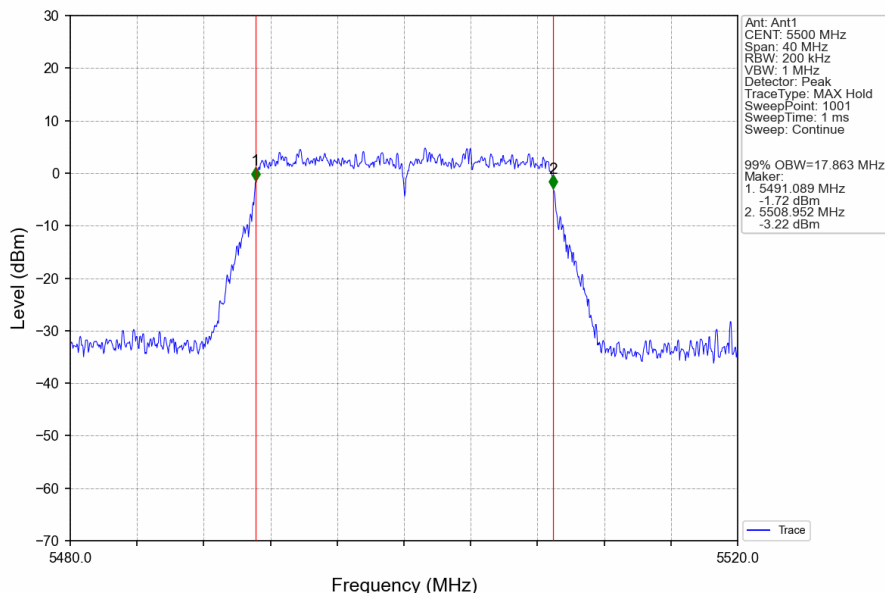
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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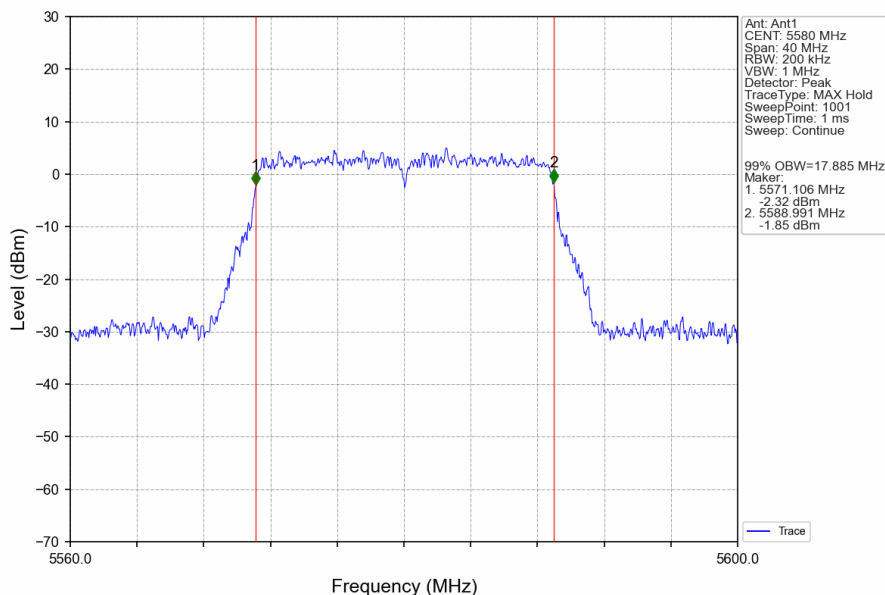
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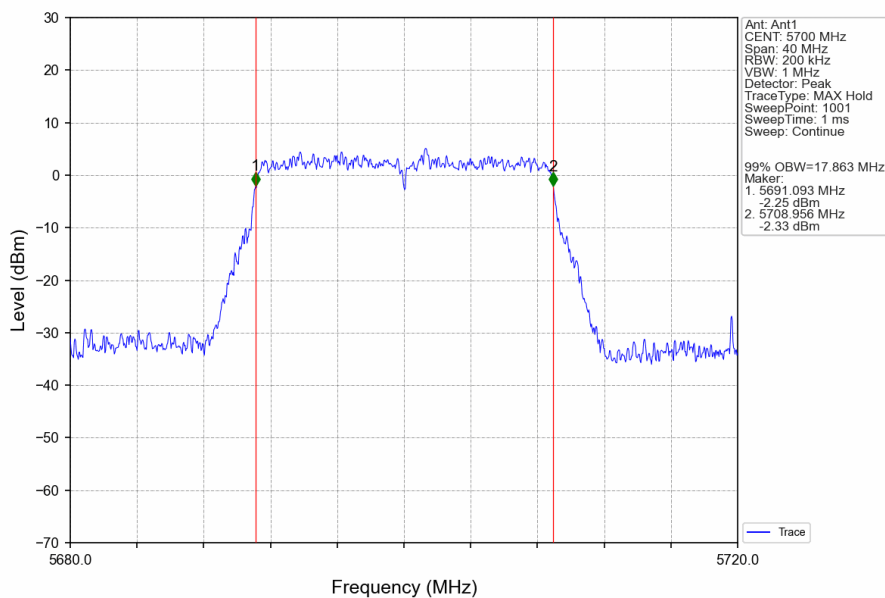
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802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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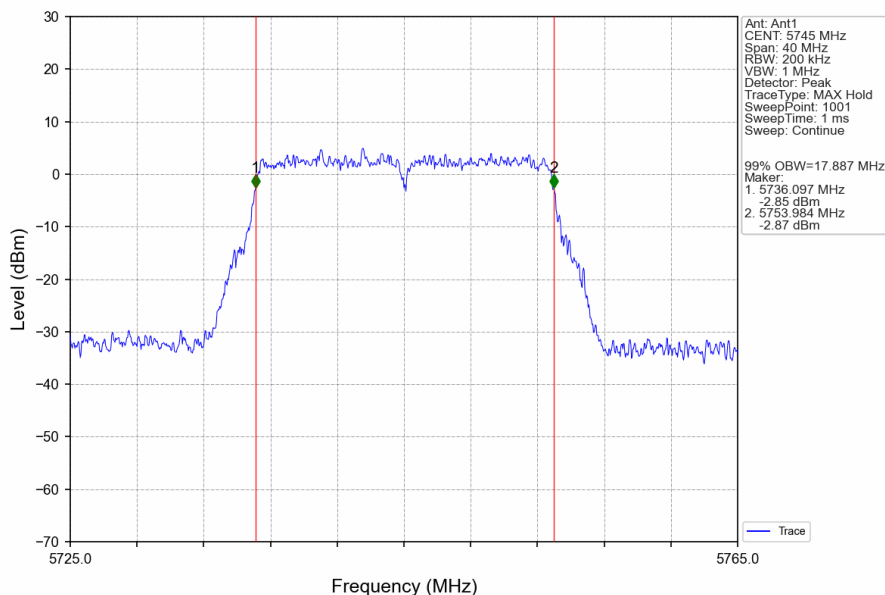
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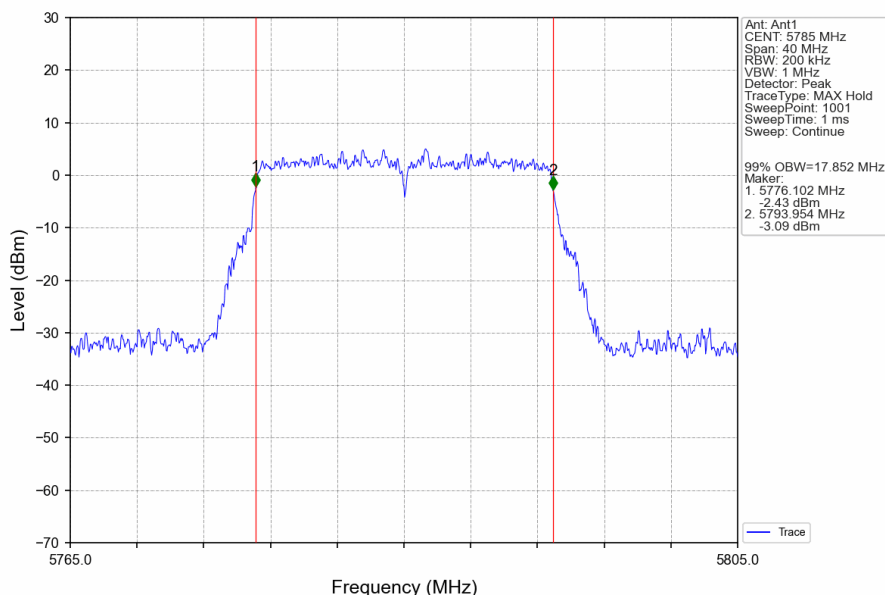
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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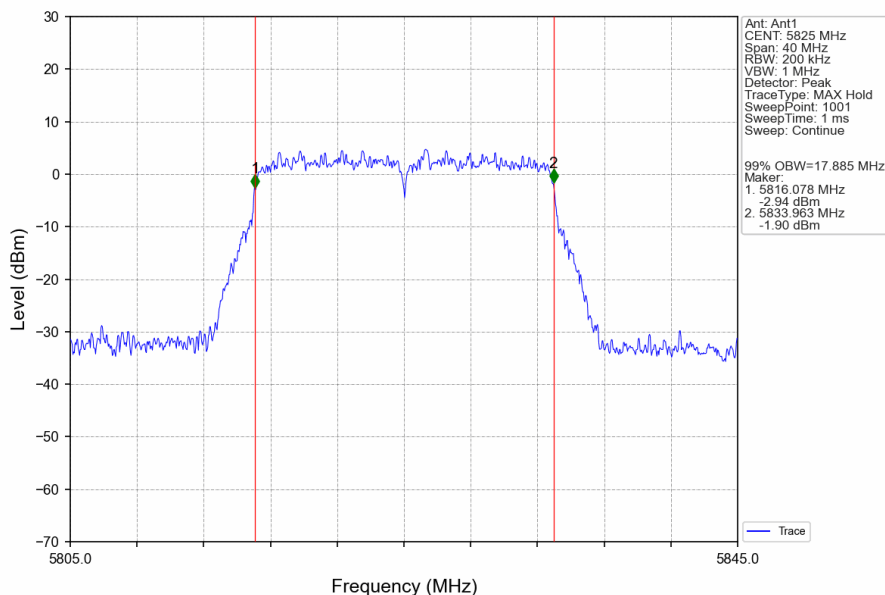
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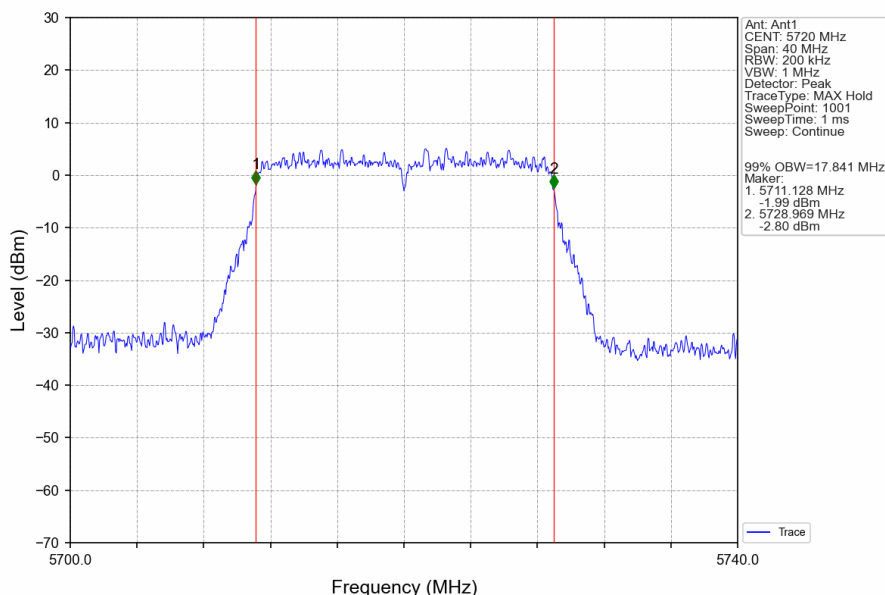
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5720MHz_Ant1_NTNV



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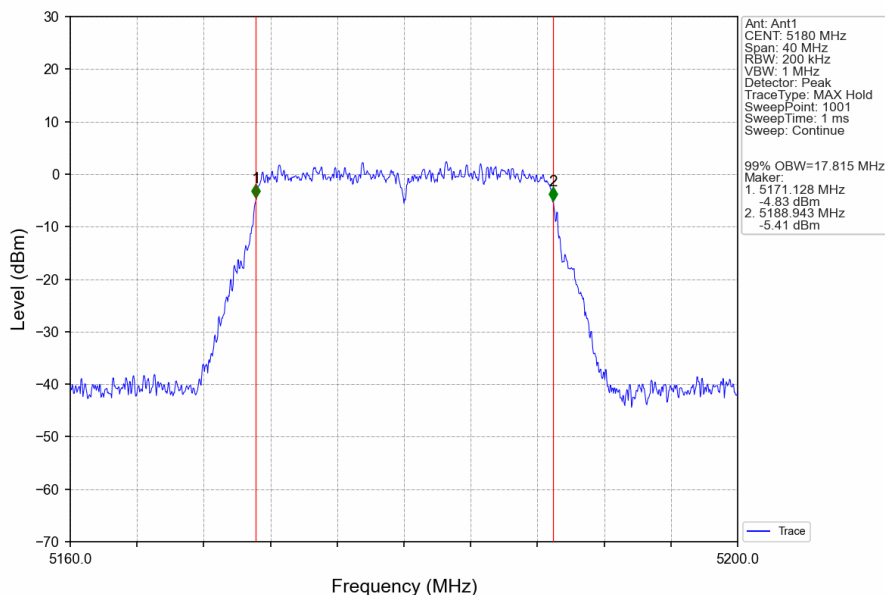
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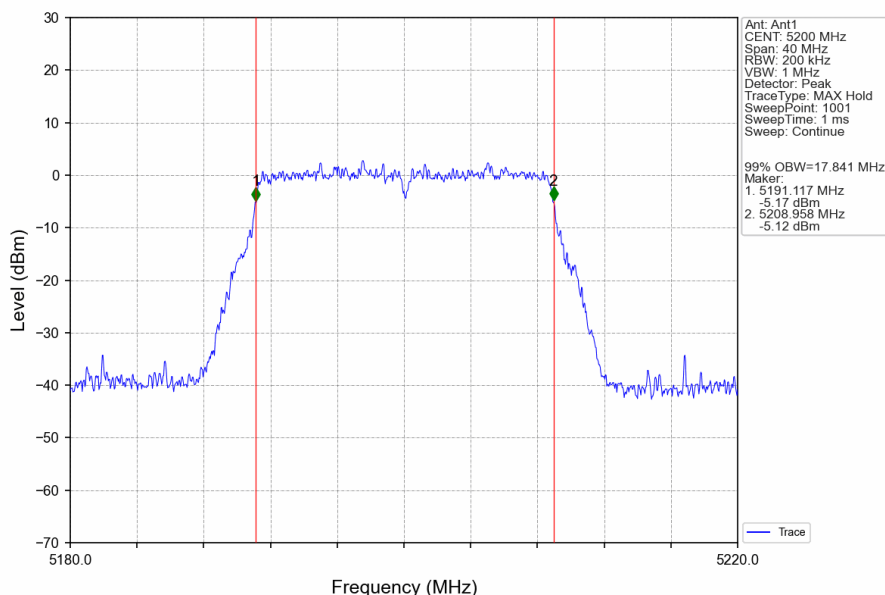
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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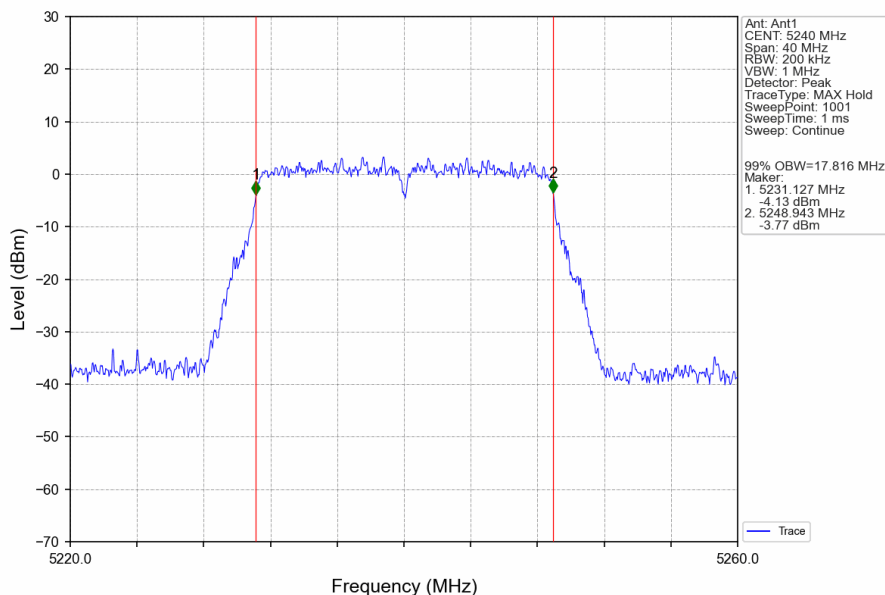
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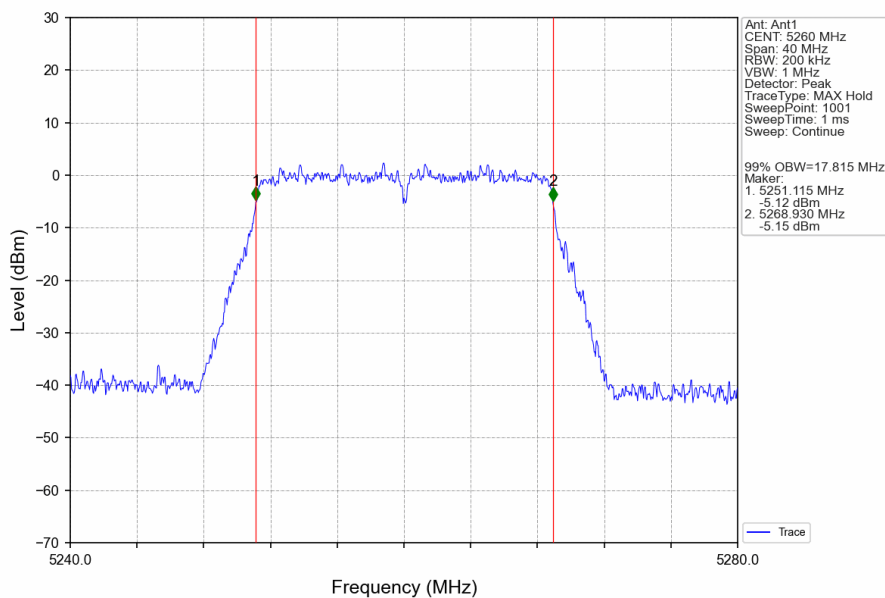
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



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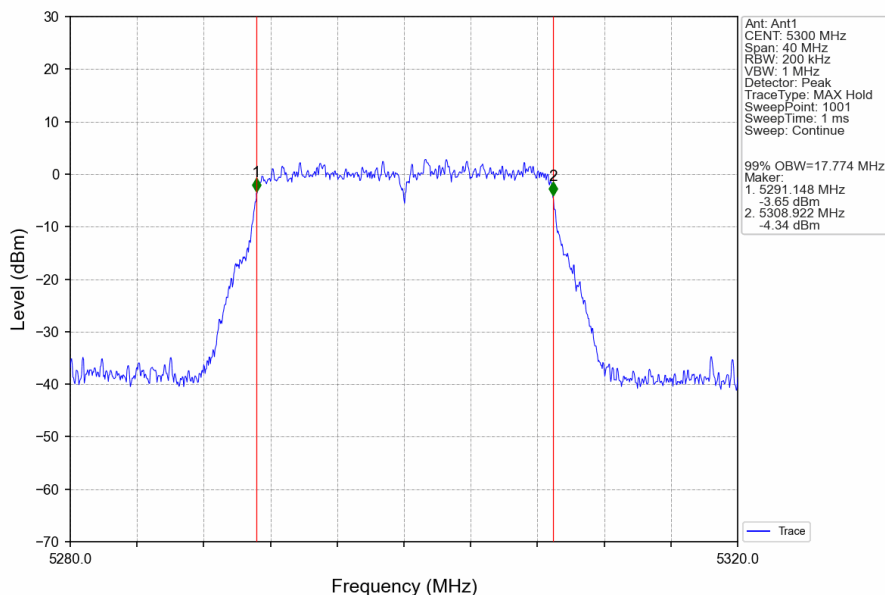
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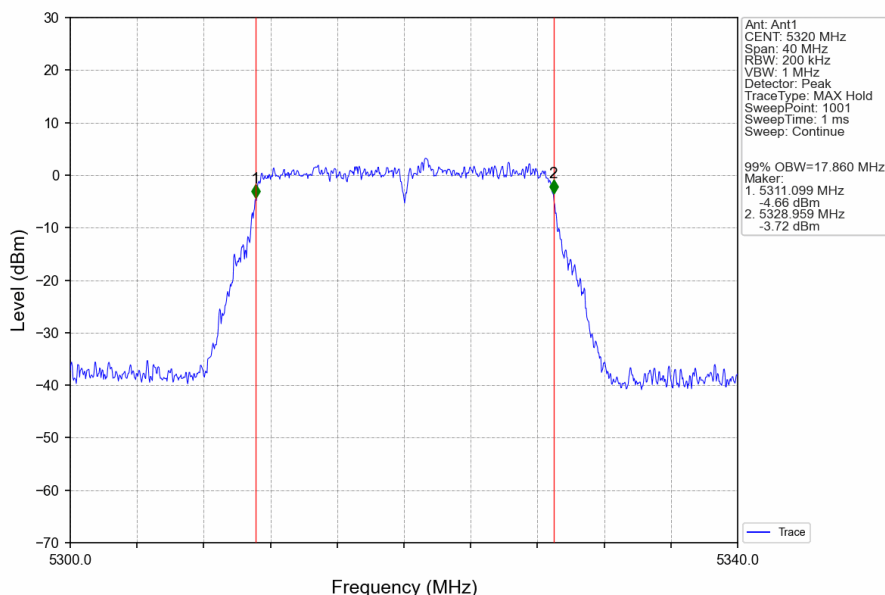
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



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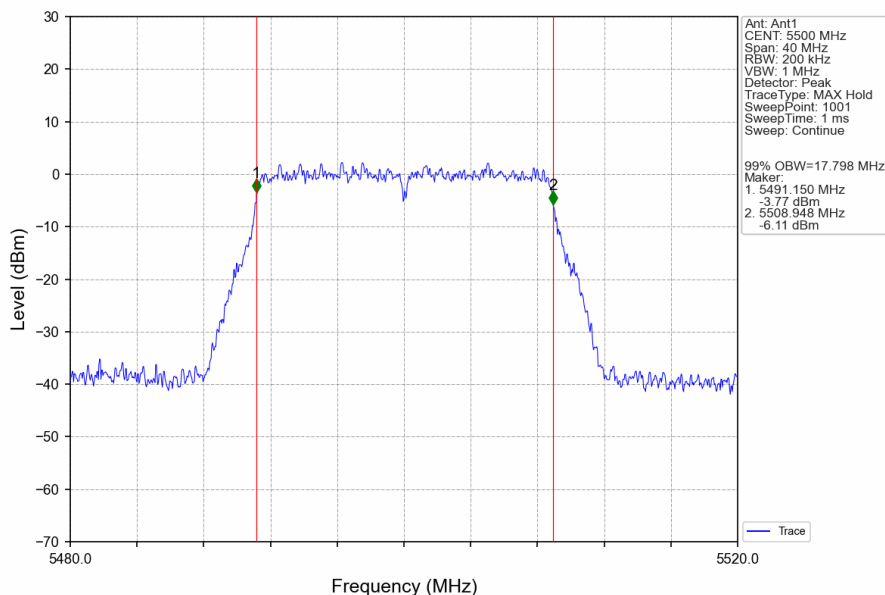
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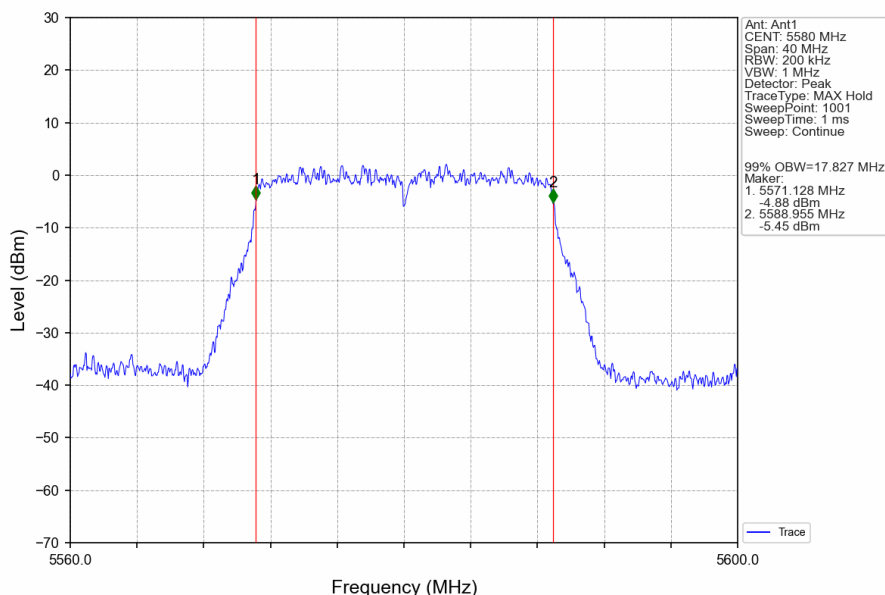
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



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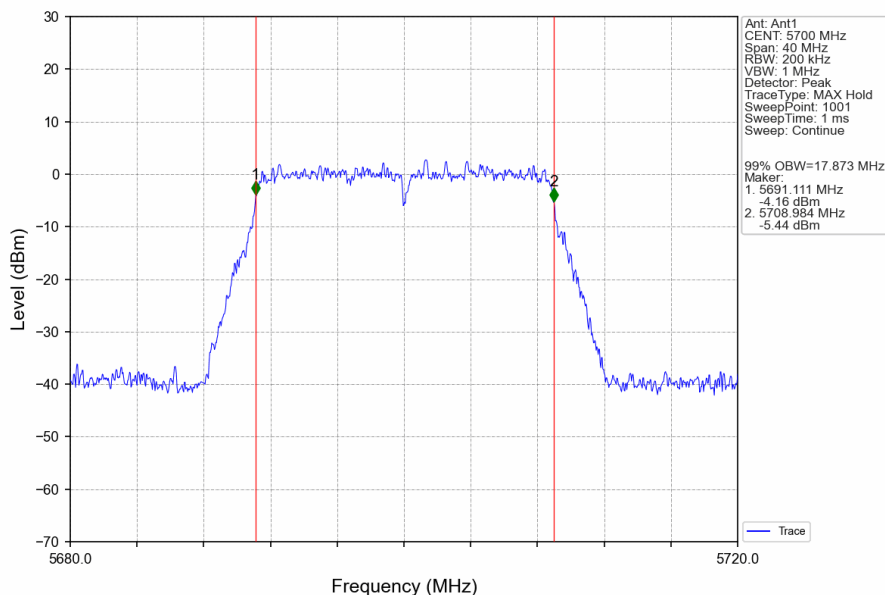
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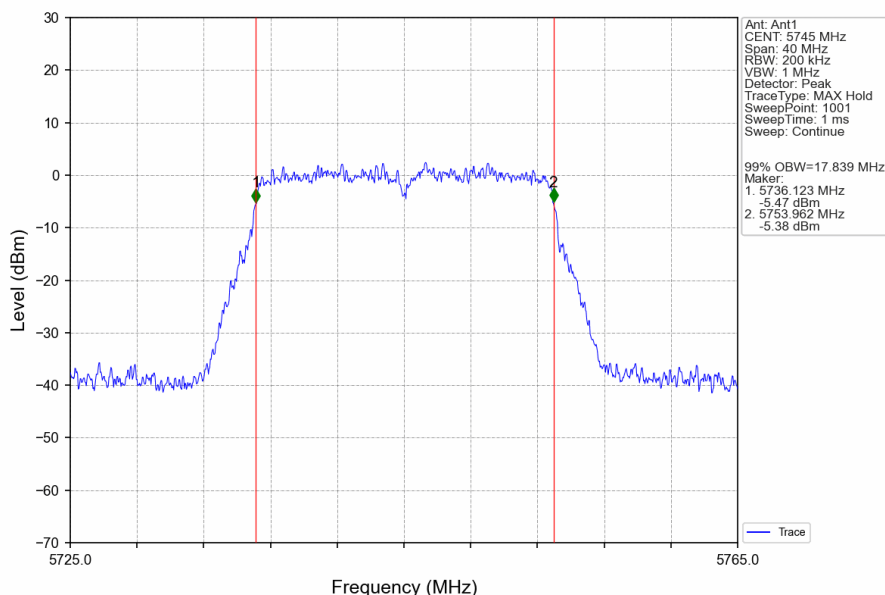
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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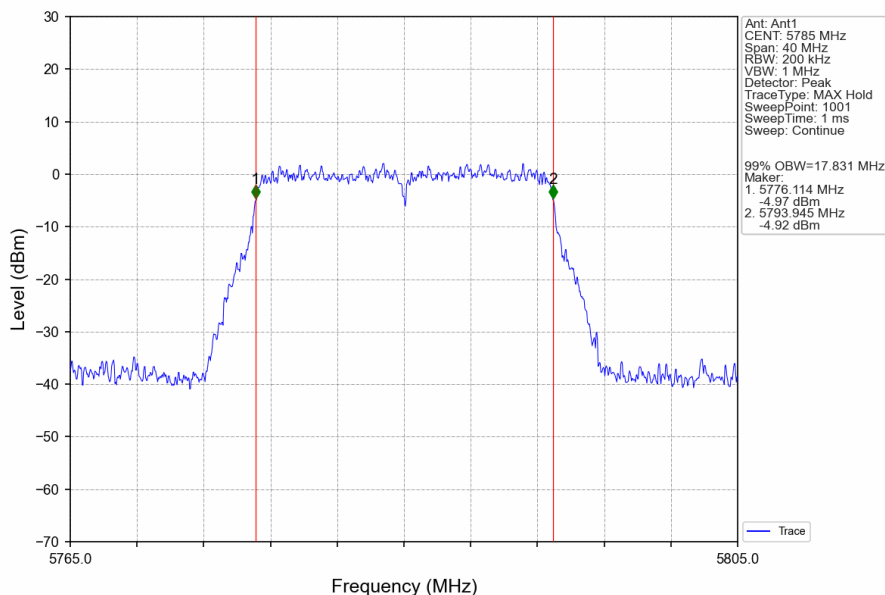
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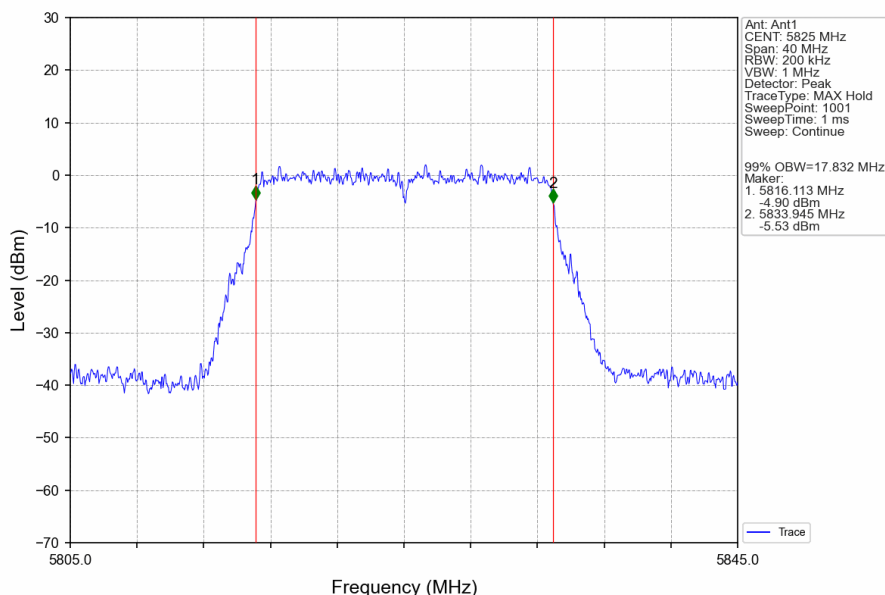
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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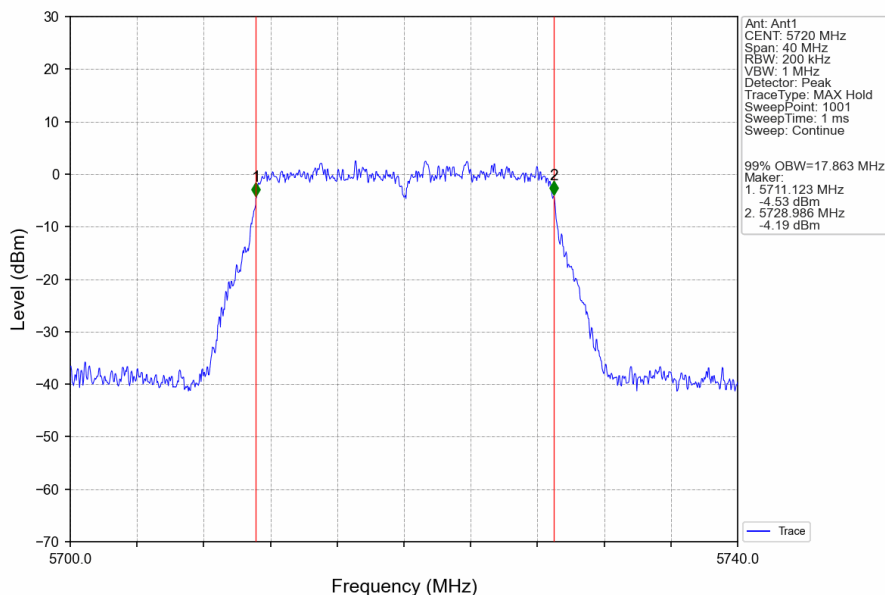
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802.11ac(VHT20)_HCH_5720MHz_Ant1_NTNV



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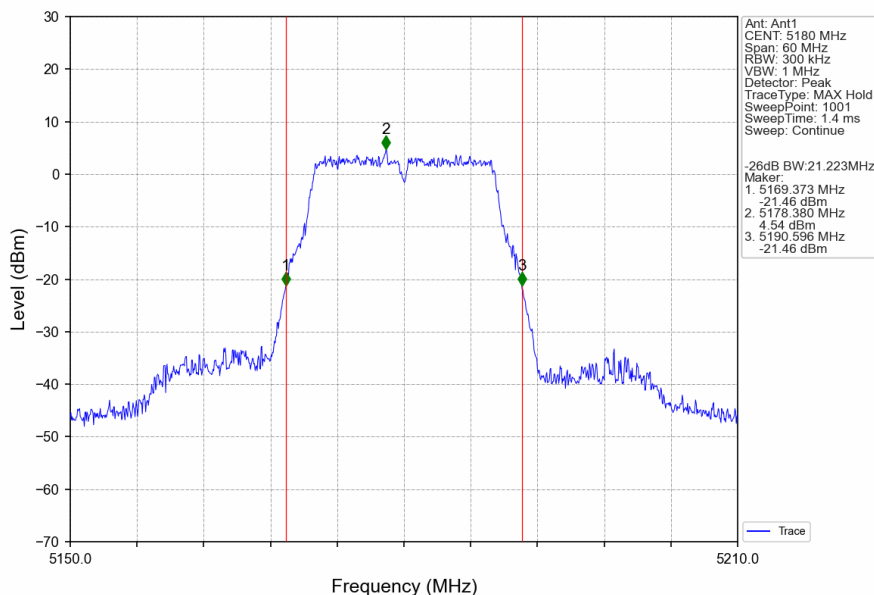
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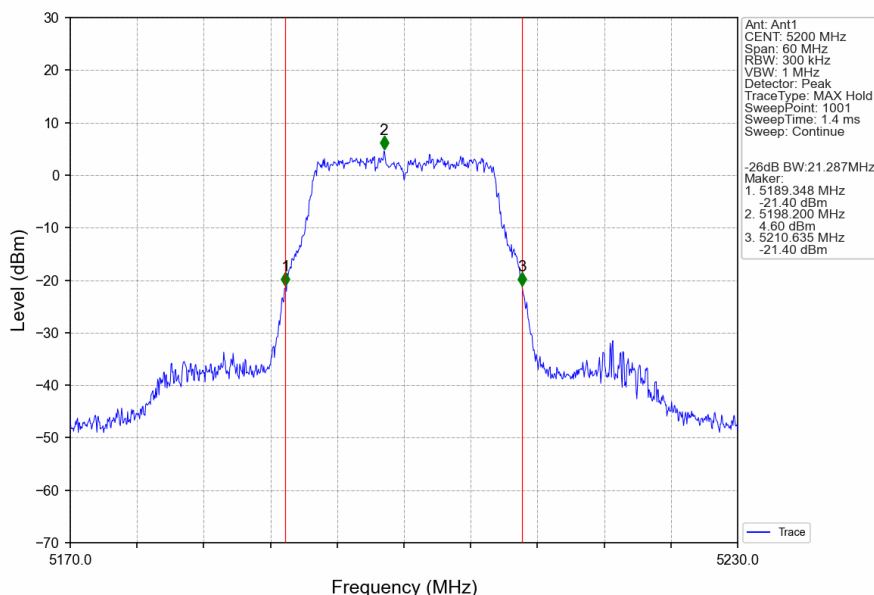
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2.2.2 26dB BW

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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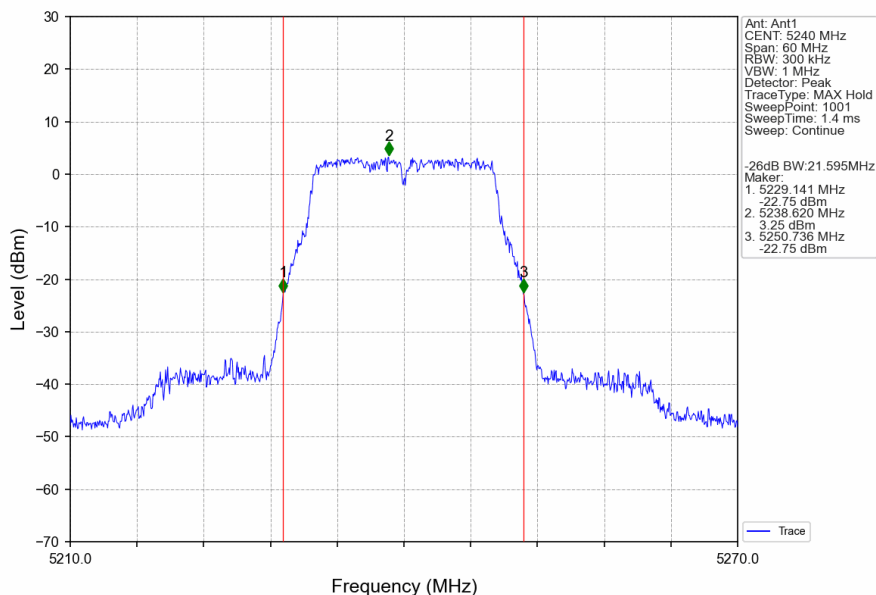
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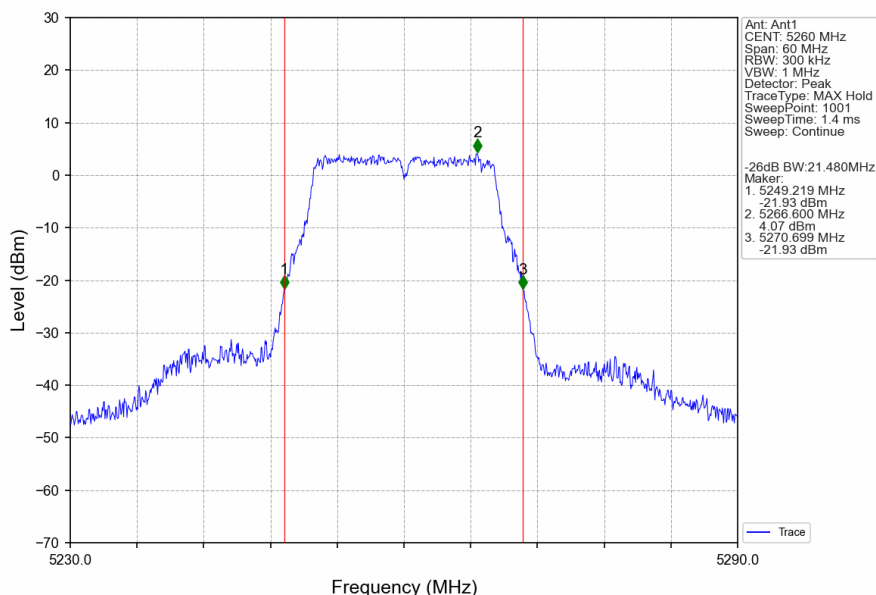
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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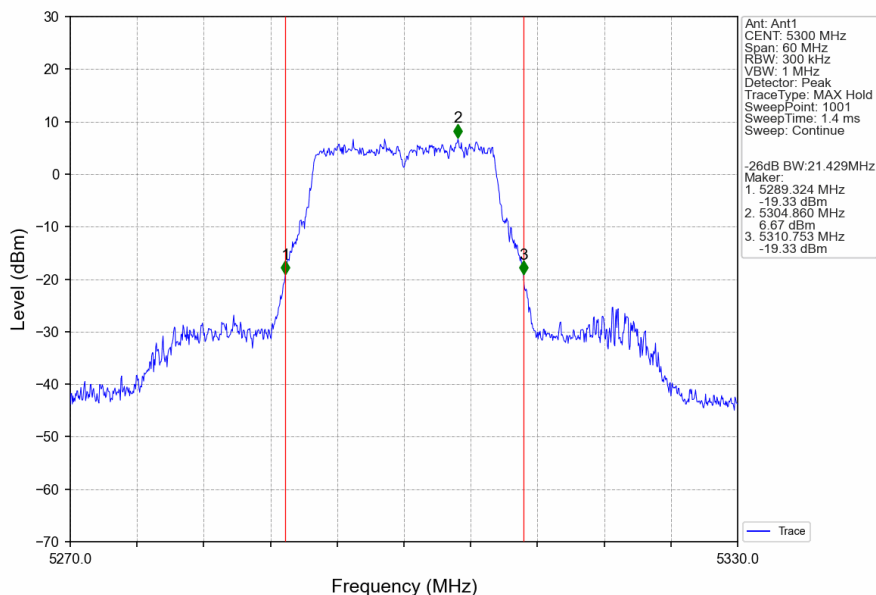
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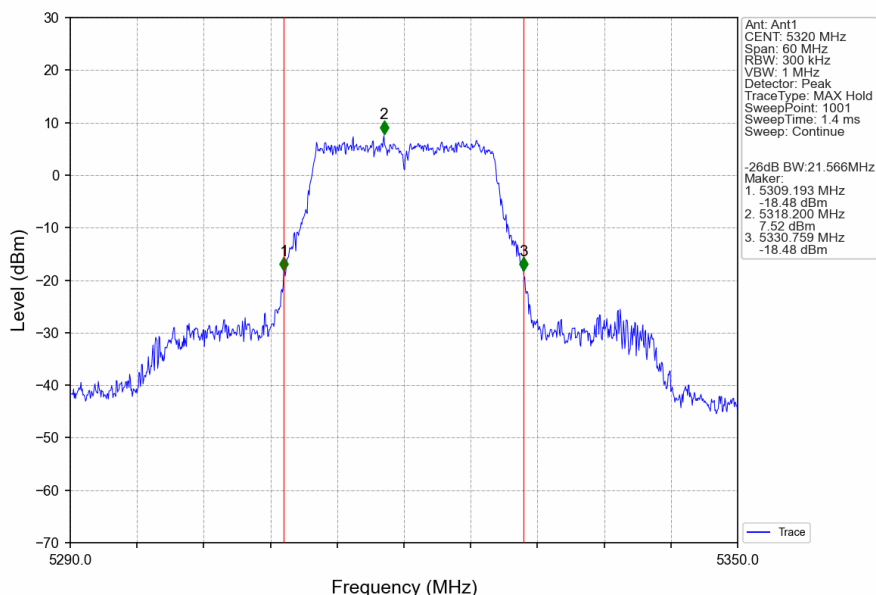
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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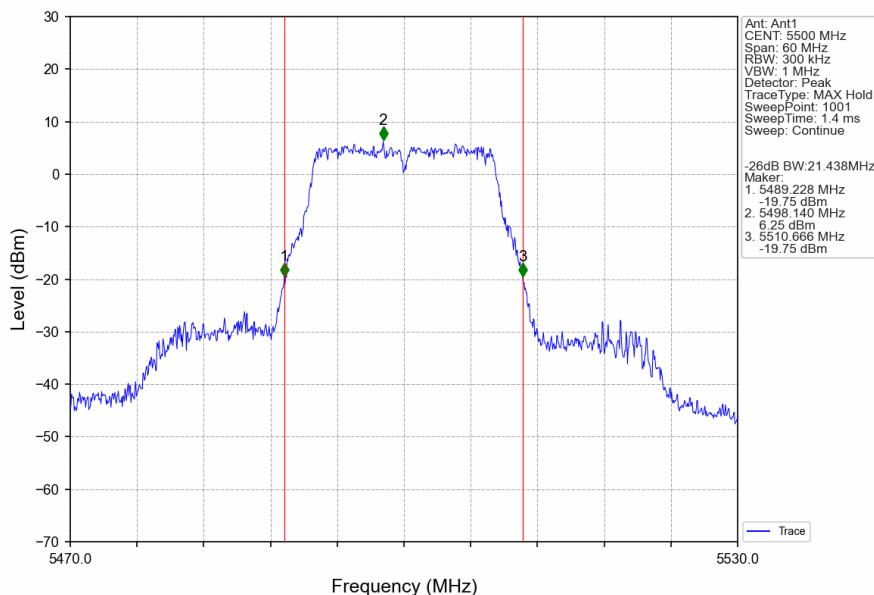
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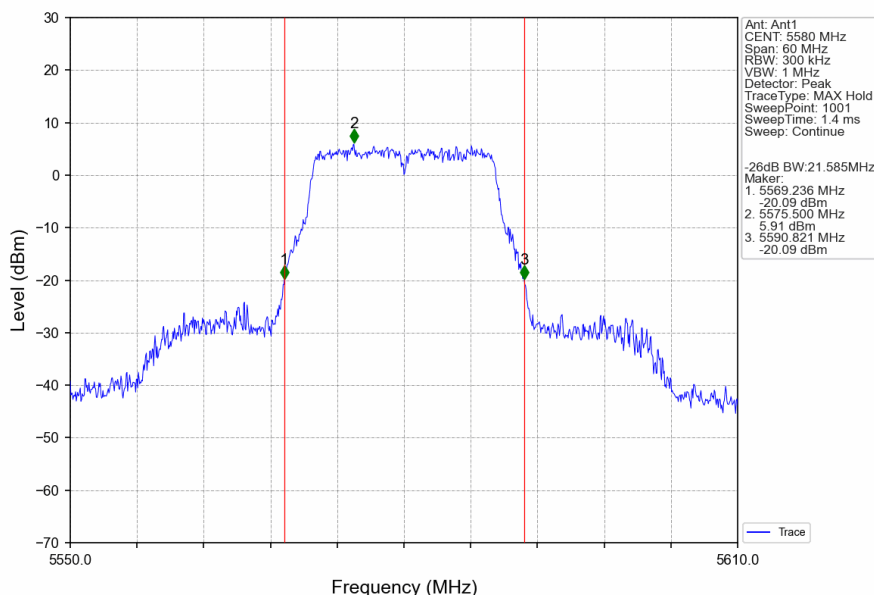
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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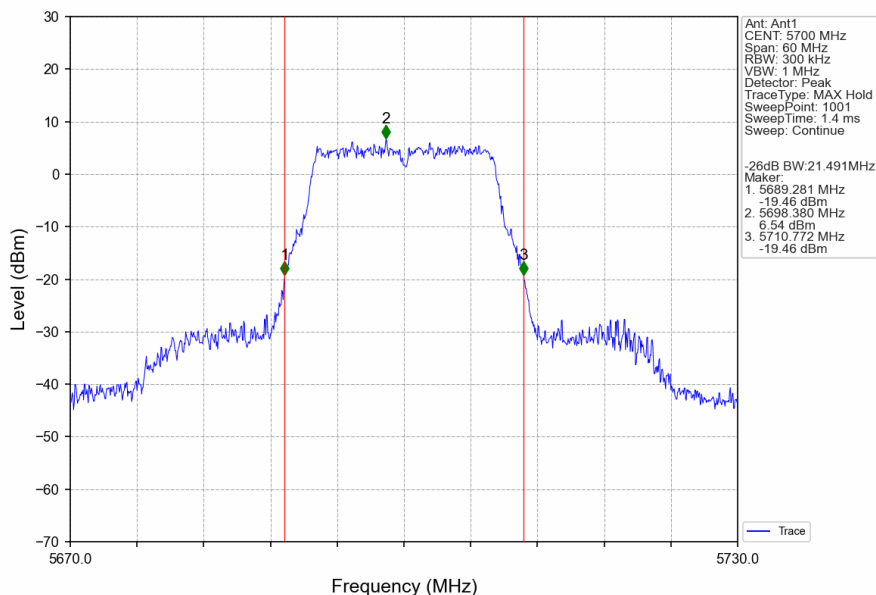
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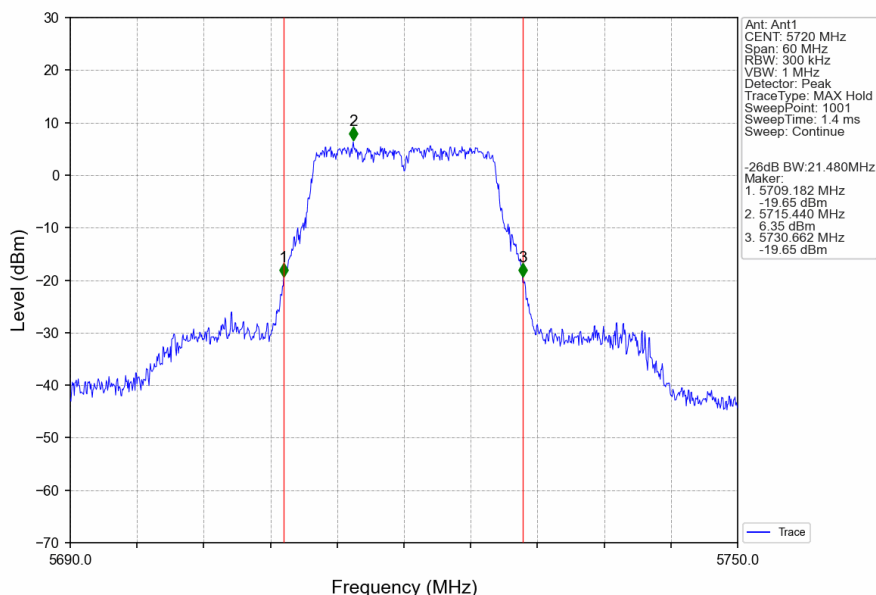
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_HCH_5720MHz_Ant1_NTNV



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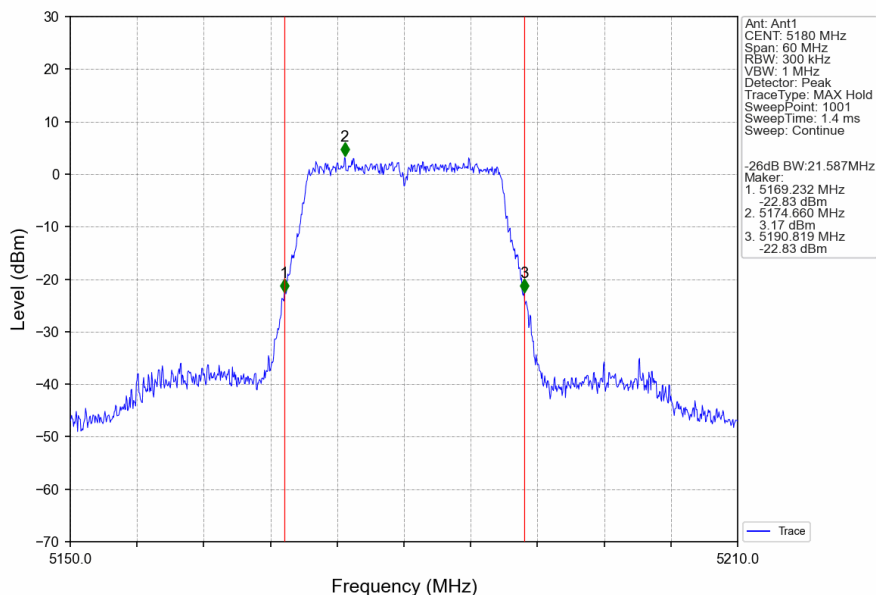
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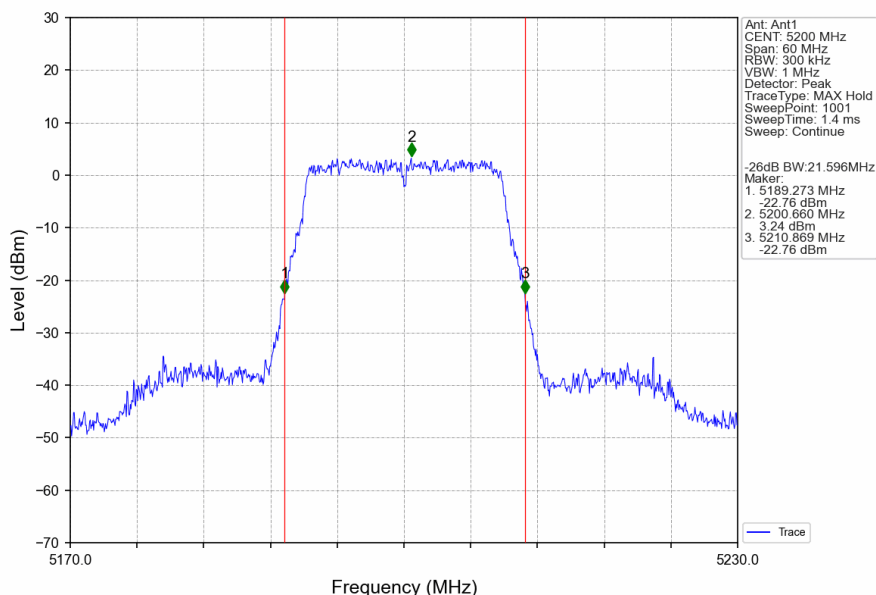
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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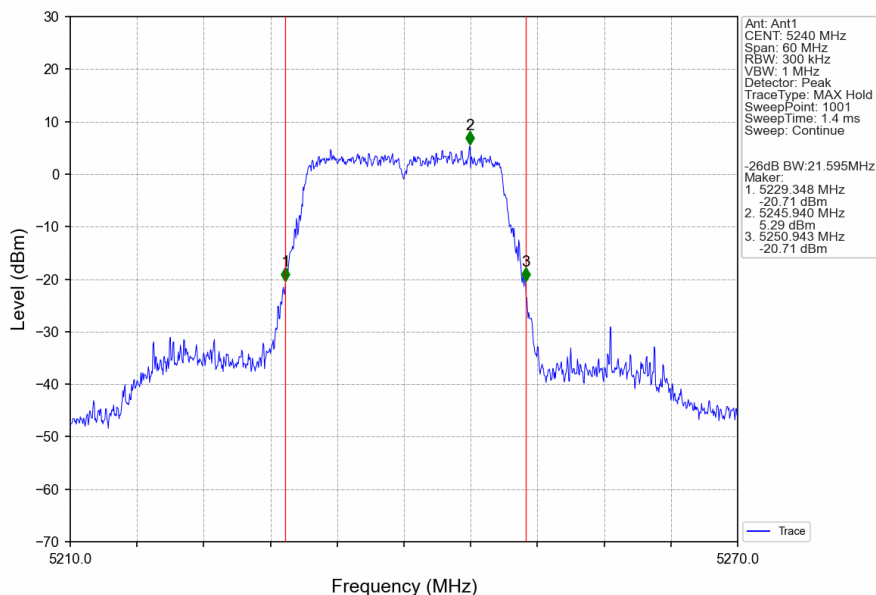
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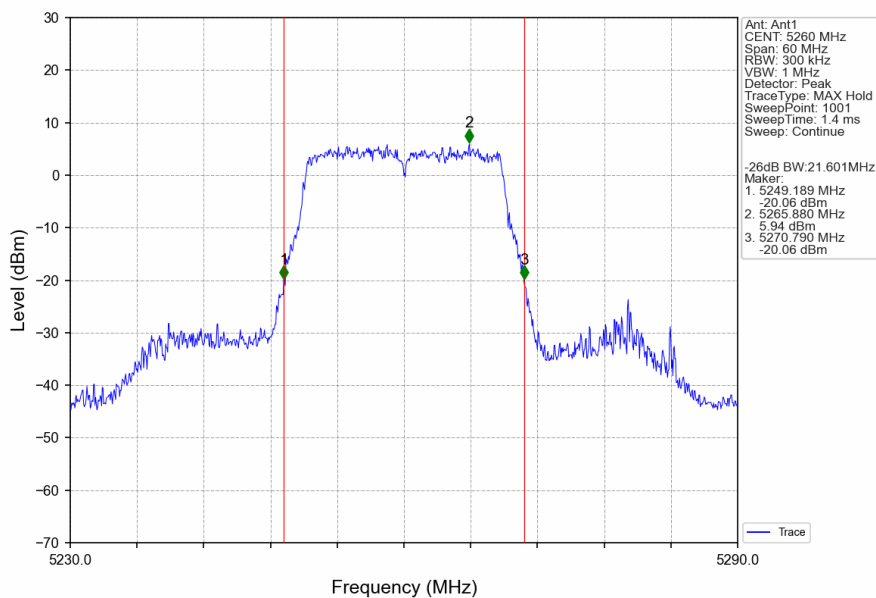
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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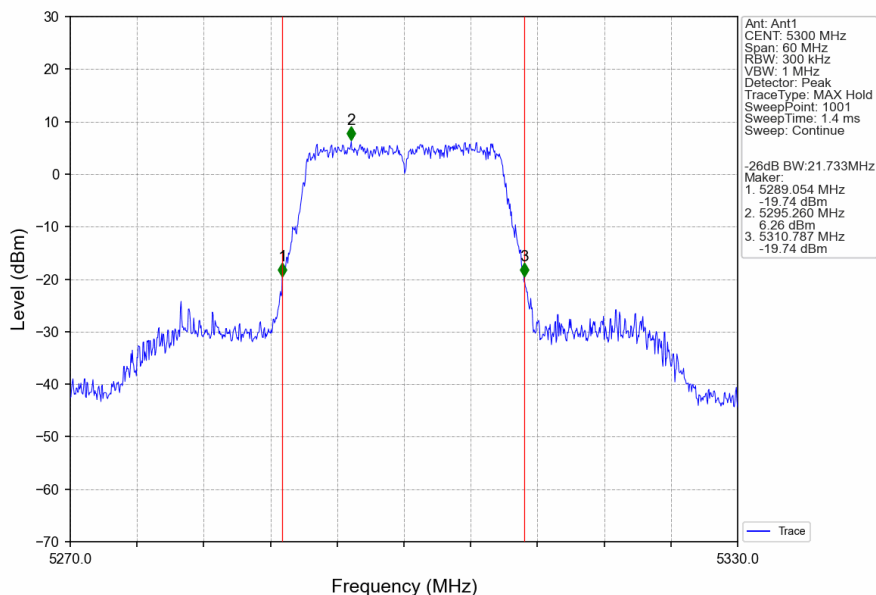
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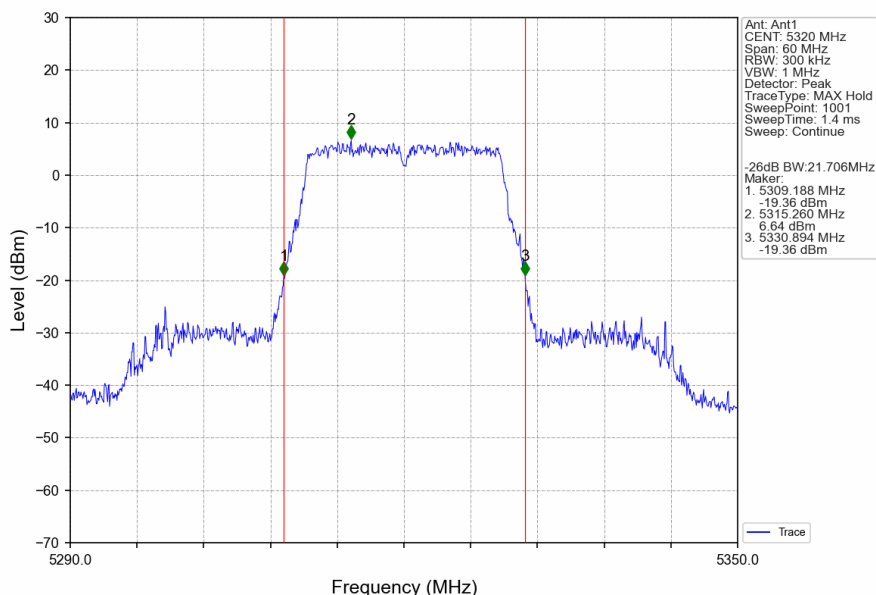
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802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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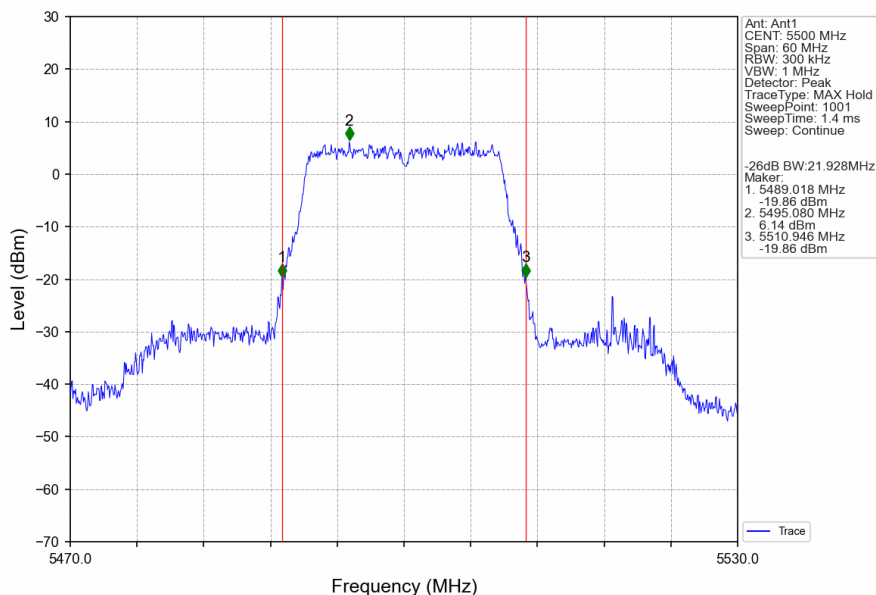
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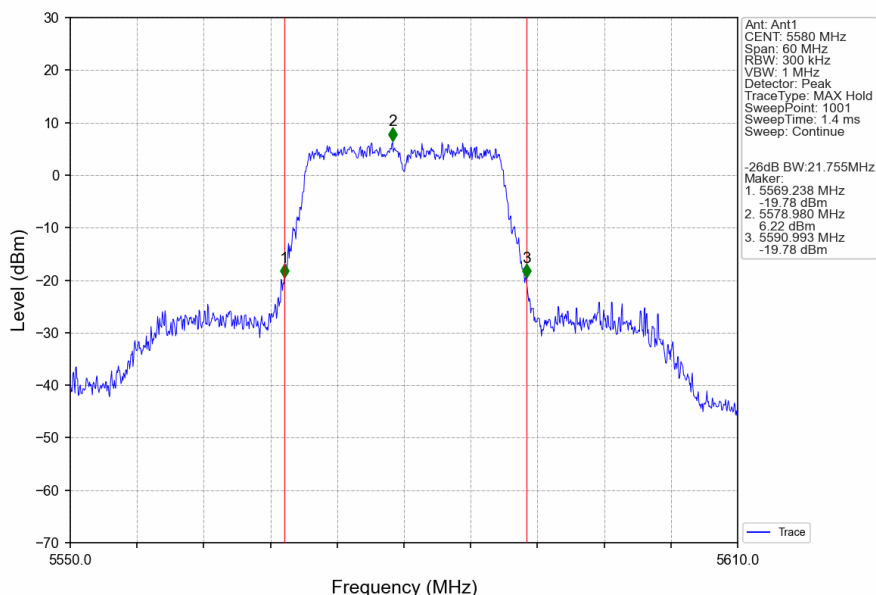
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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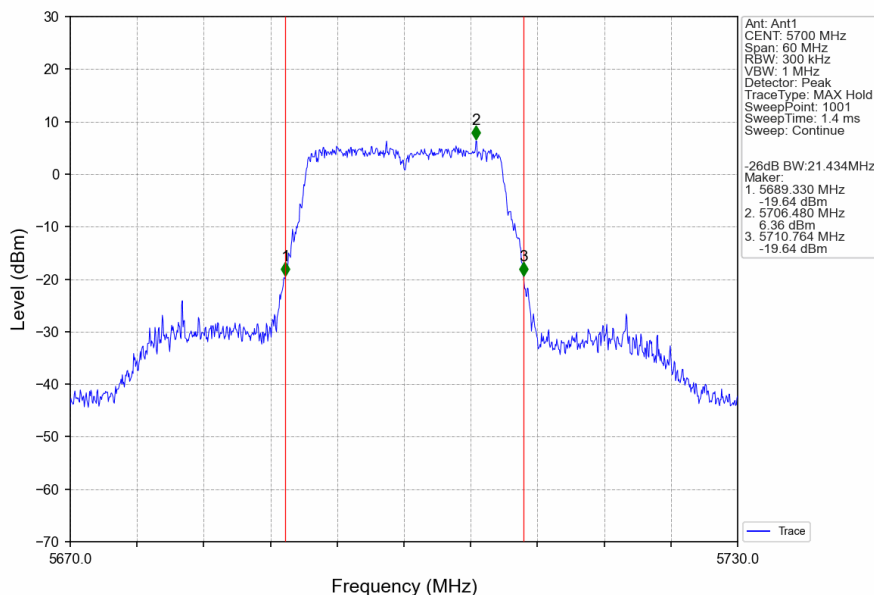
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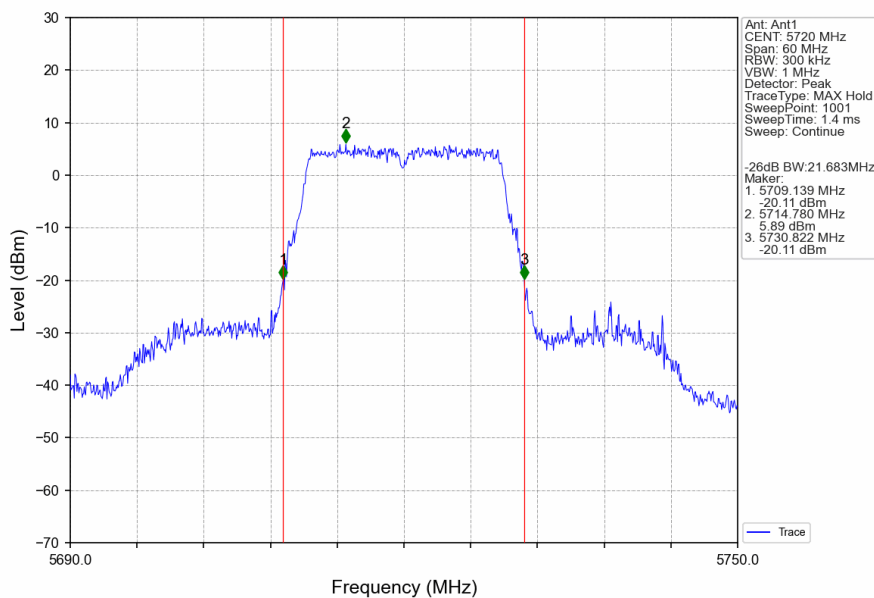
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802.11n(HT20)_HCH_5720MHz_Ant1_NTNV



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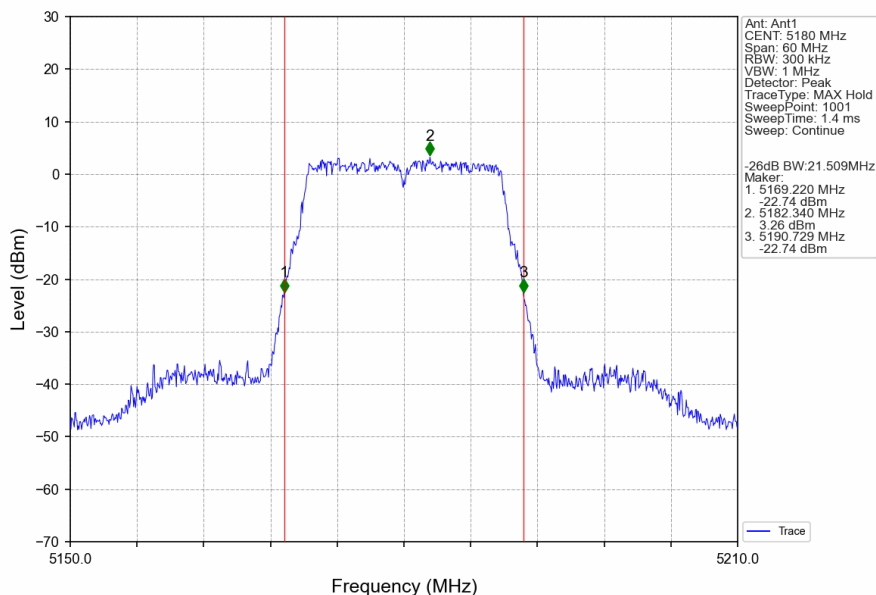
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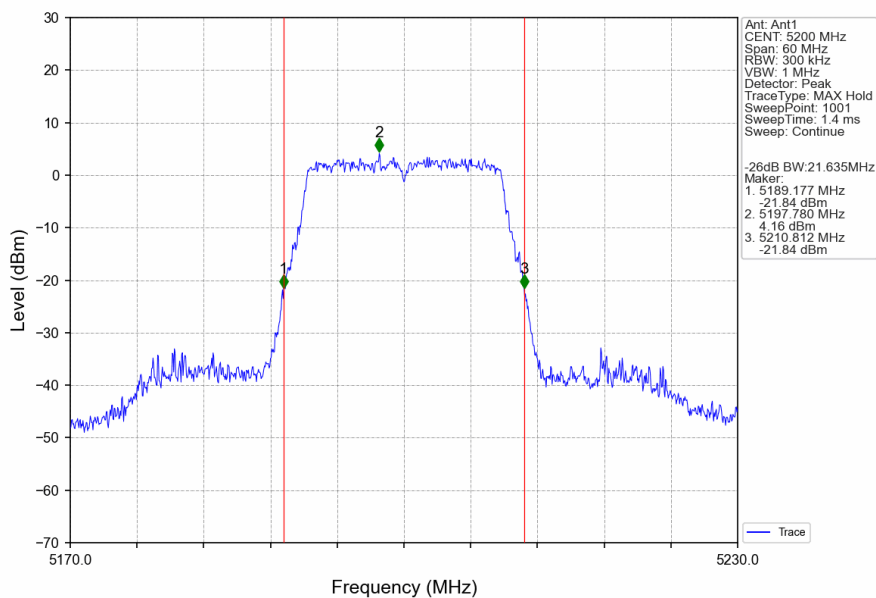
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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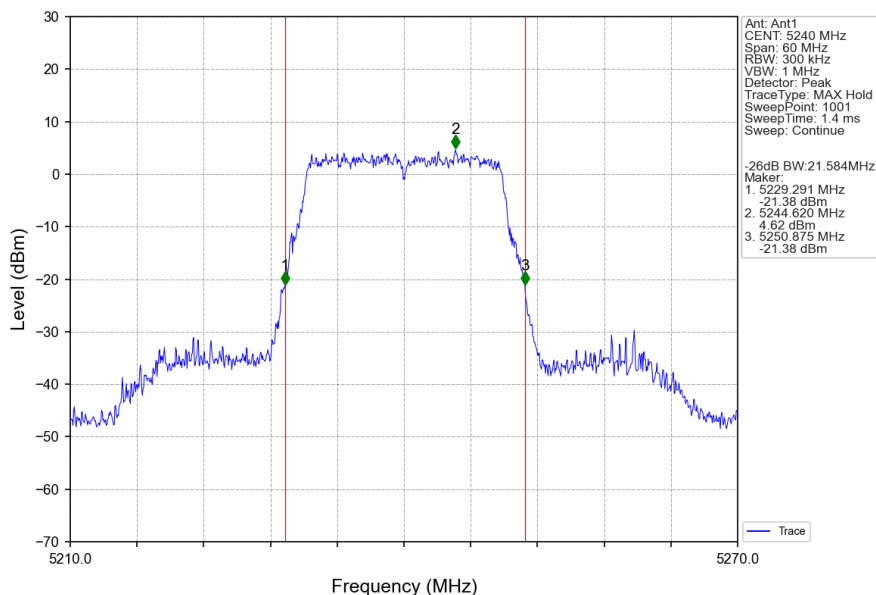
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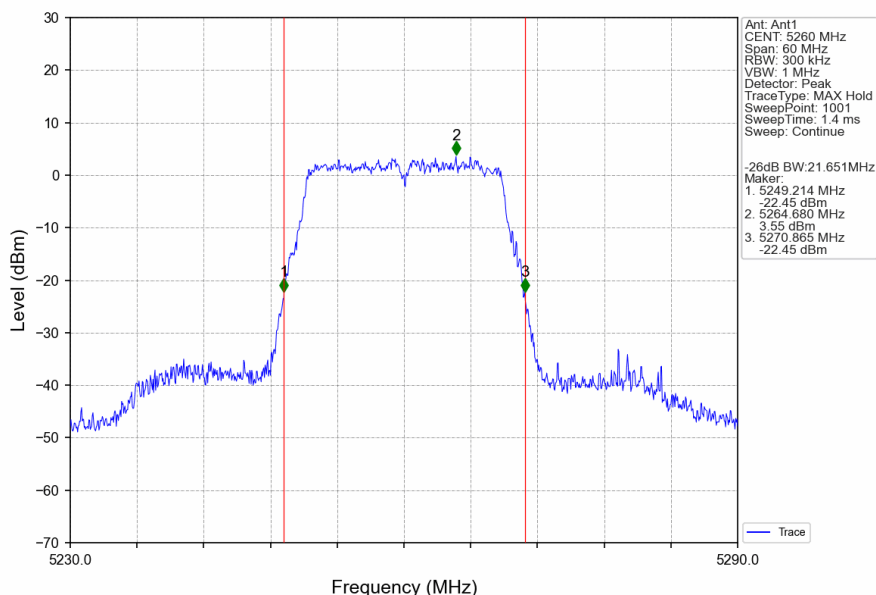
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



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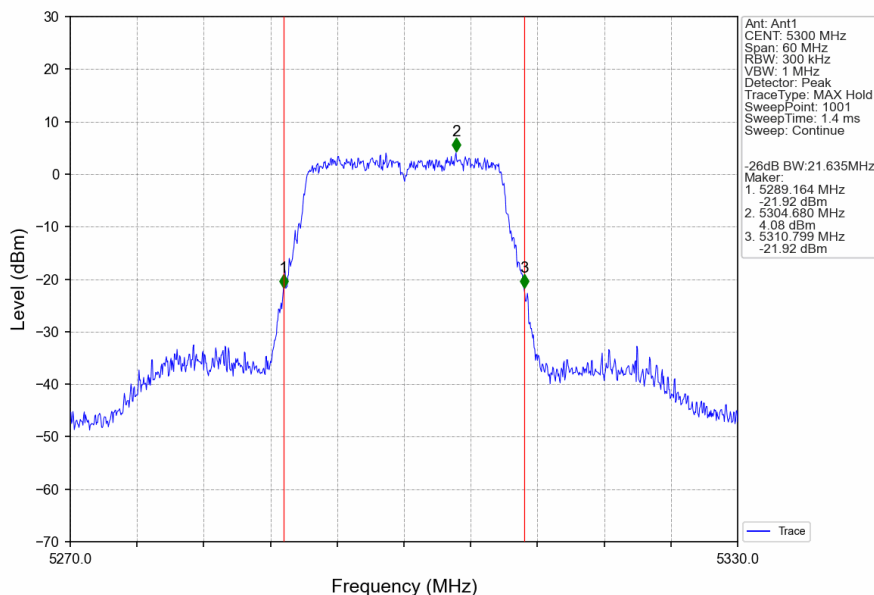
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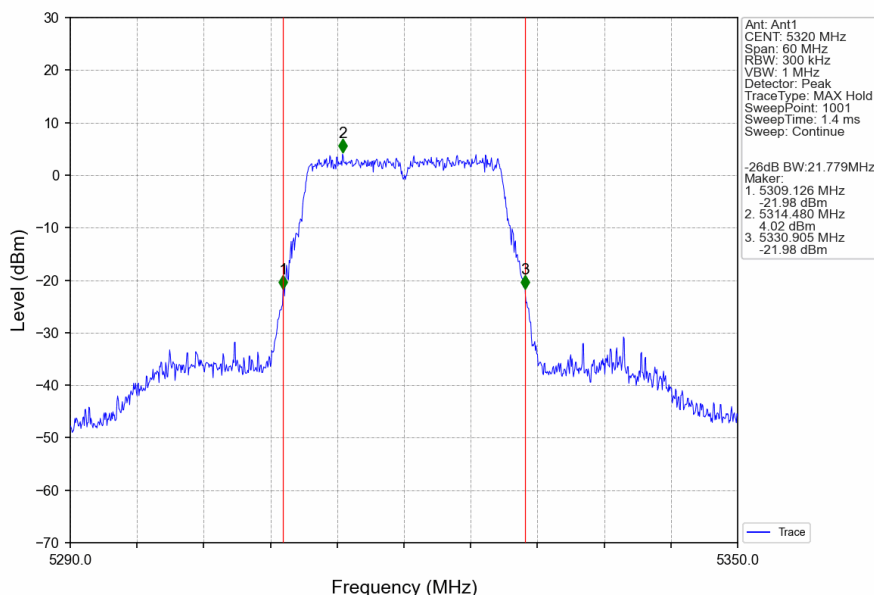
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



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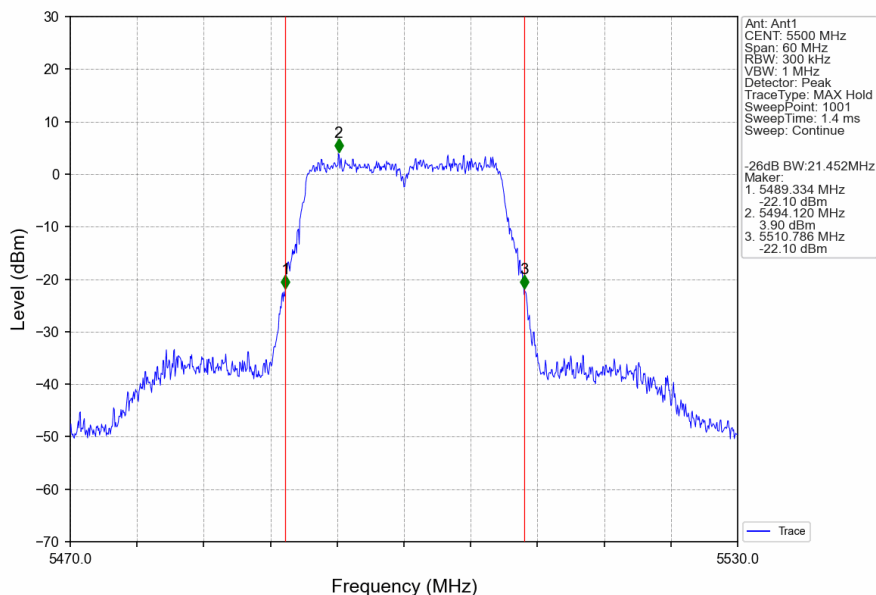
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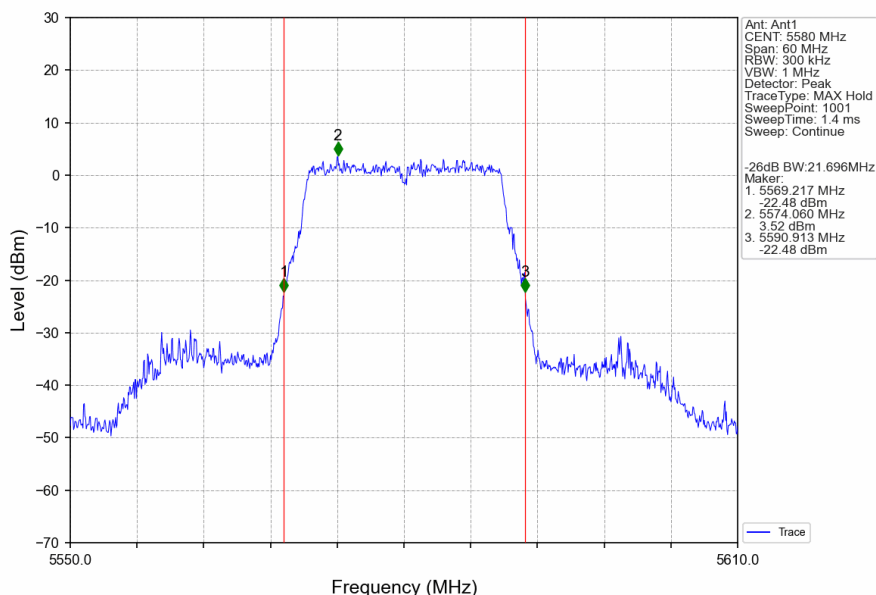
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802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



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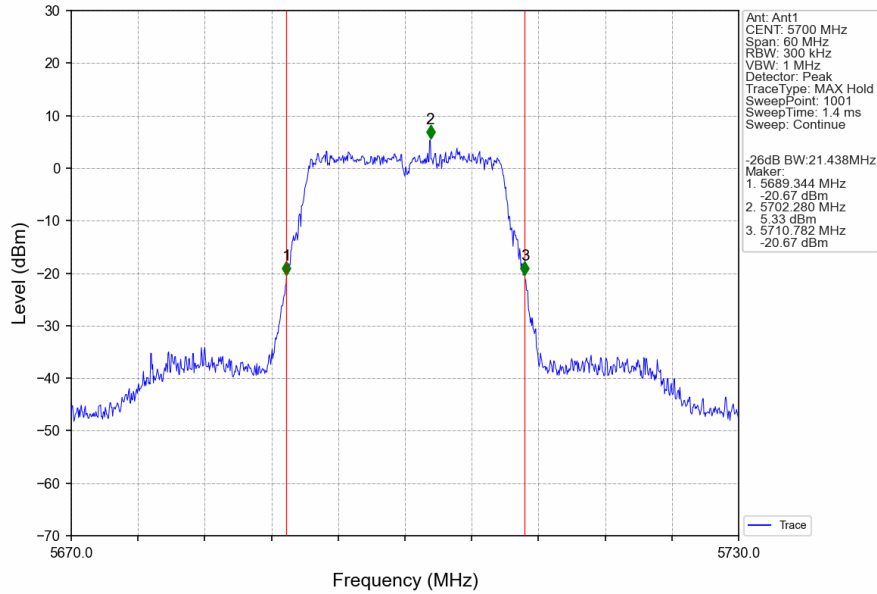
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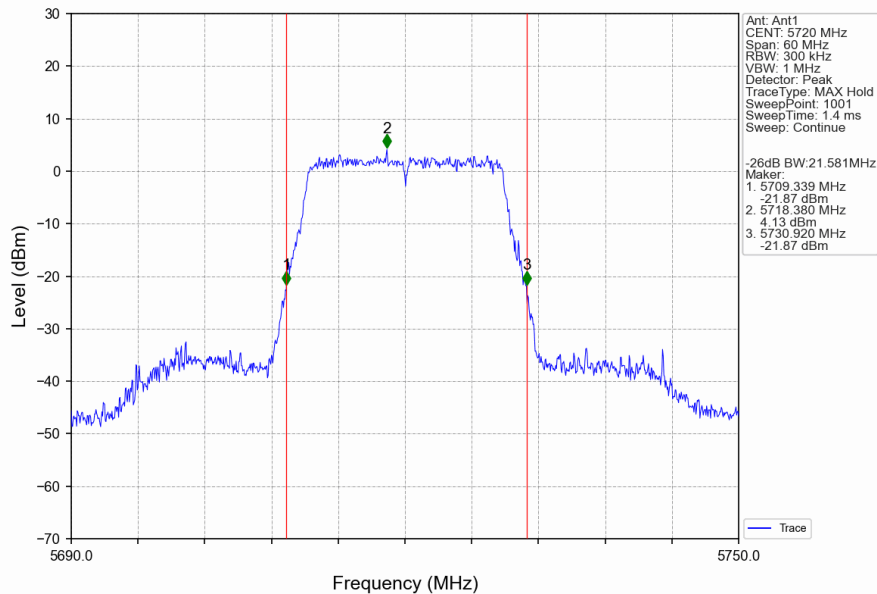
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802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5720MHz_Ant1_NTNV



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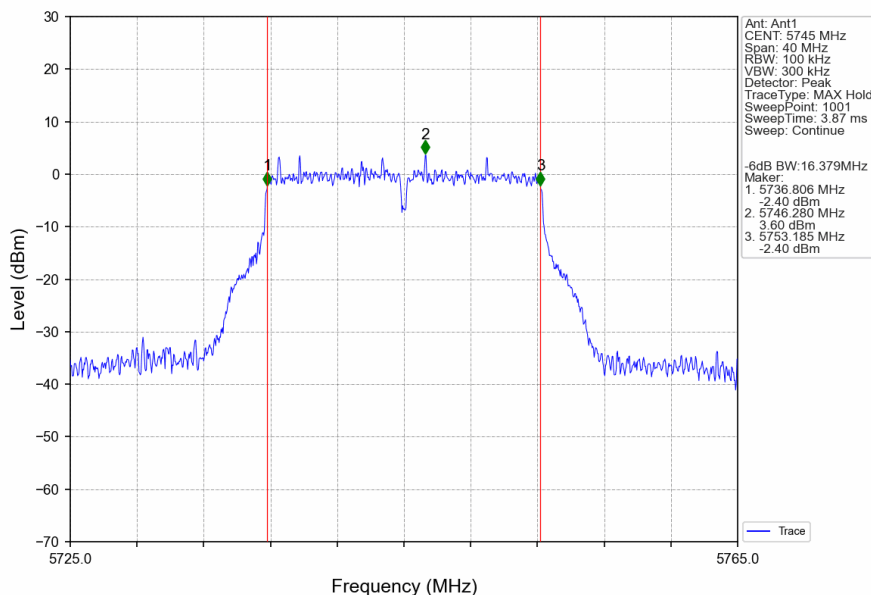
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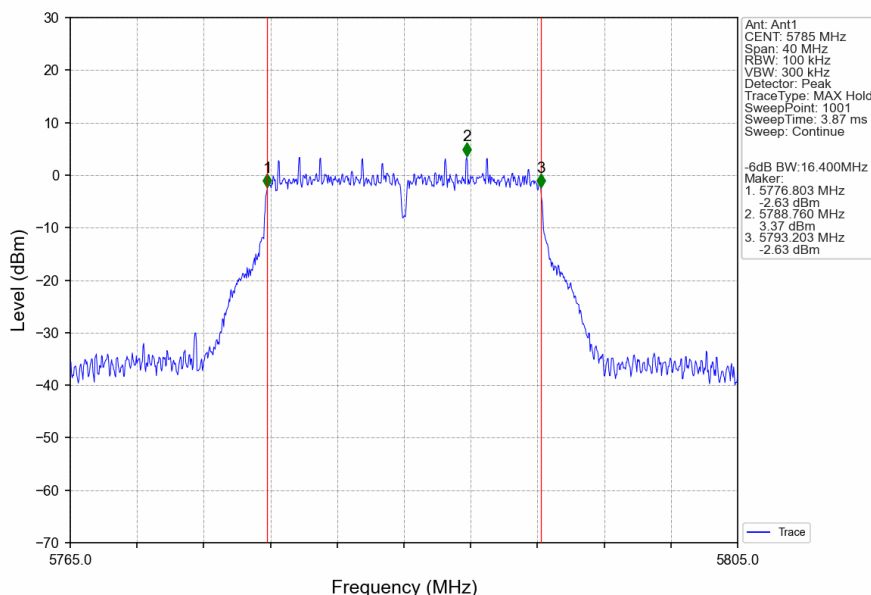
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2.2.3 6dB BW

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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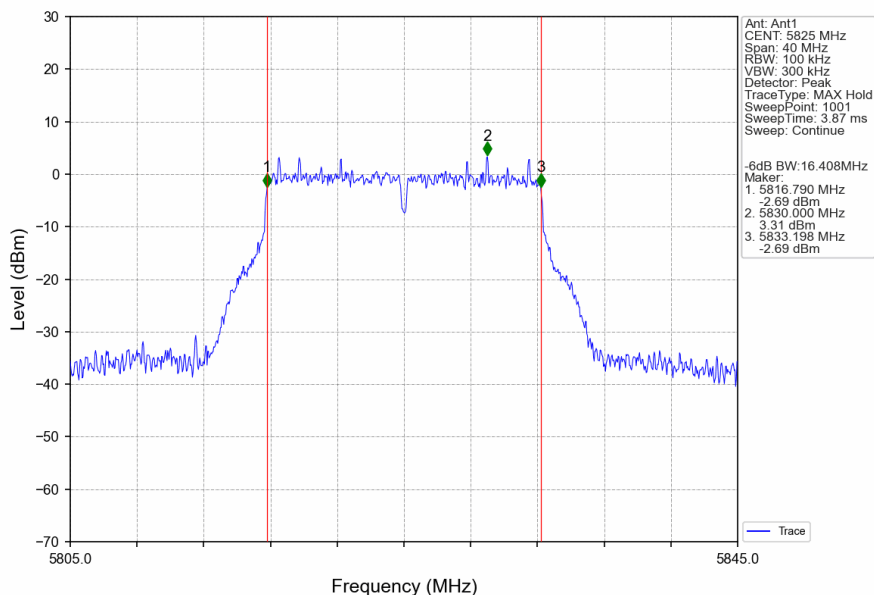
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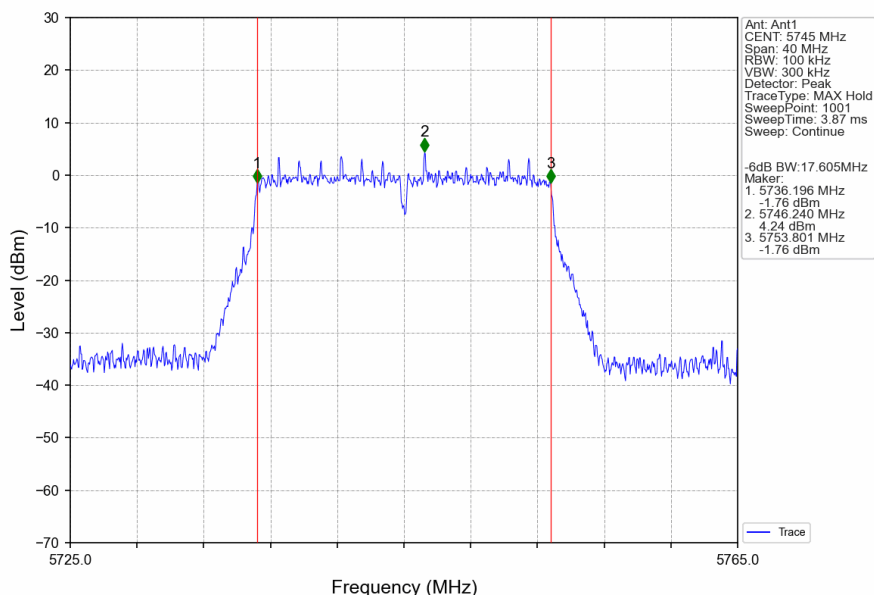
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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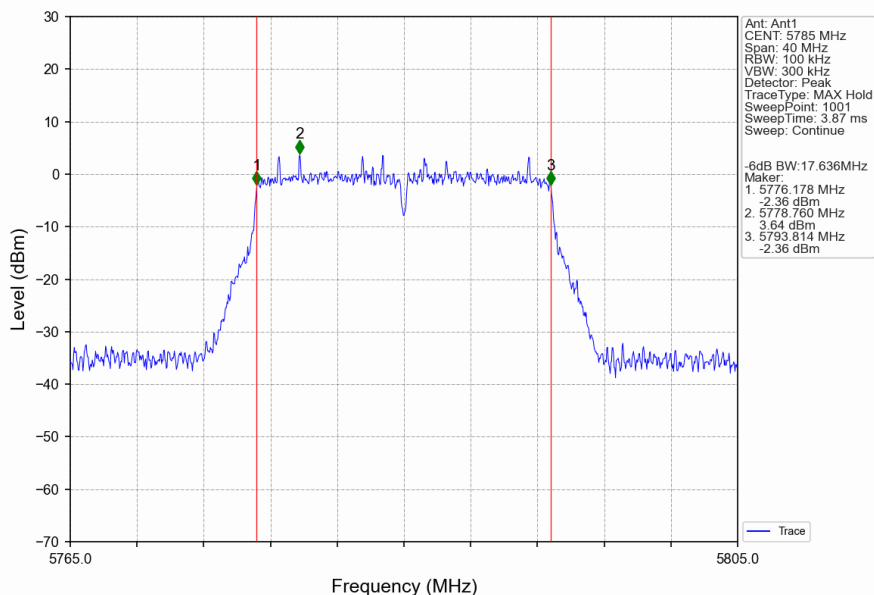
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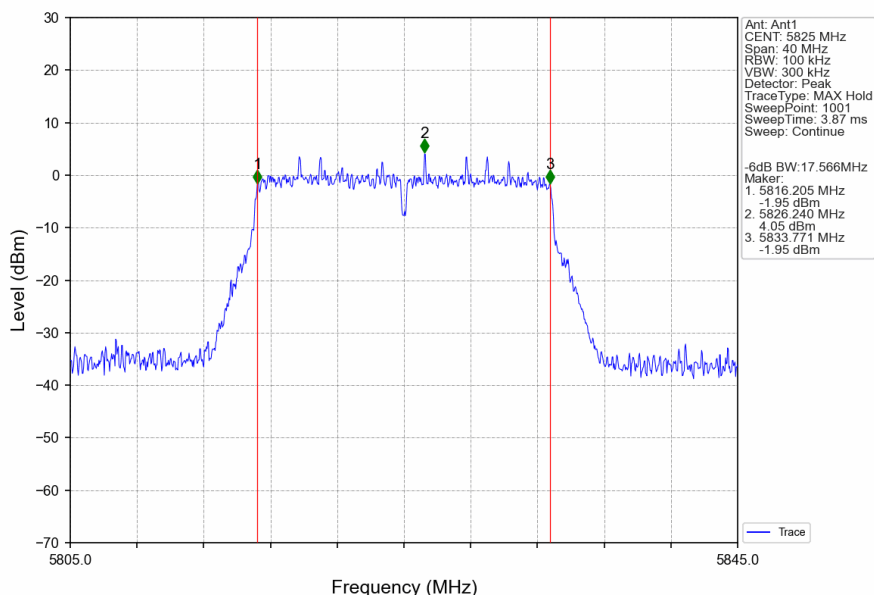
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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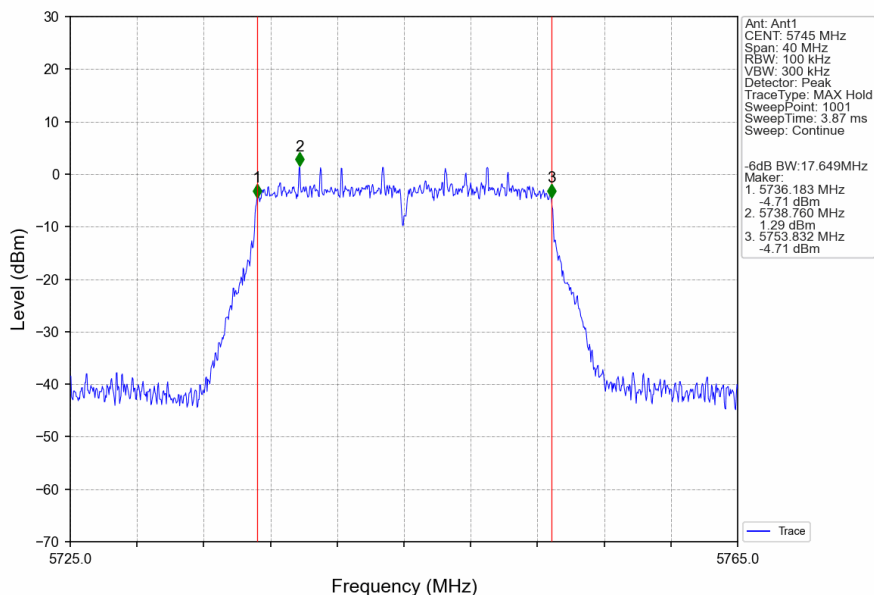
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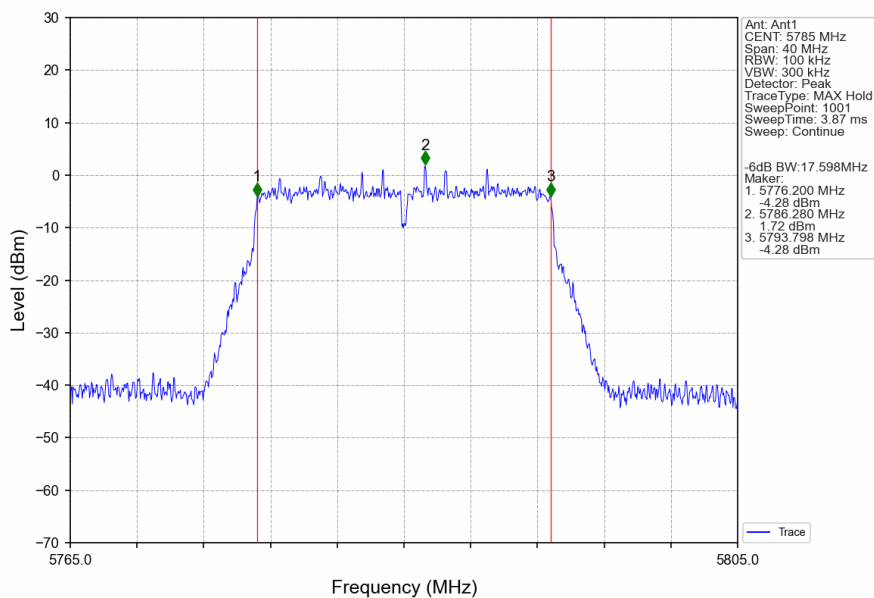
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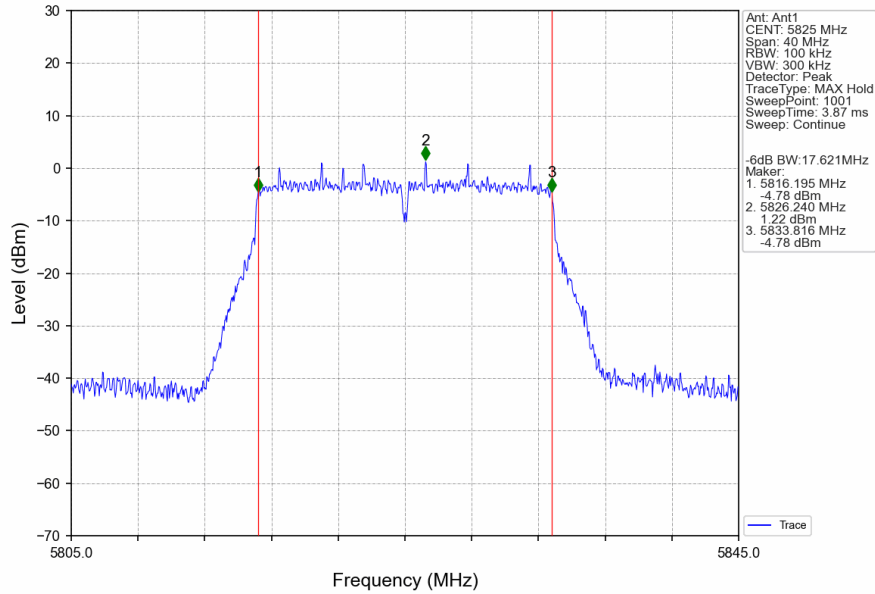
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5180	11.02	10.52	<=21.67	Pass
		5200	10.58	10.18	<=21.67	Pass
		5240	11.16	10.76	<=21.67	Pass
		5260	15.00	14.91	<=21.67	Pass
		5300	15.32	15.60	<=21.67	Pass
		5320	15.99	15.71	<=21.67	Pass
		5500	14.98	14.86	<=21.67	Pass
		5580	14.70	14.46	<=21.67	Pass
		5700	15.05	15.45	<=21.67	Pass
		5745	14.92	15.51	<=27.69	Pass
		5785	14.56	15.58	<=27.69	Pass
		5825	14.61	15.45	<=27.69	Pass
		5720-UNII 2C	15.00	15.57	<=21.67	Pass
		5720-UNII 3	7.26	7.84	<=27.69	Pass
802.11n (HT20)	SISO	5180	10.60	10.39	<=21.67	Pass
		5200	11.08	10.85	<=21.67	Pass
		5240	10.89	10.74	<=21.67	Pass
		5260	14.81	14.77	<=21.67	Pass
		5300	15.47	15.30	<=21.67	Pass
		5320	15.71	15.77	<=21.67	Pass
		5500	14.99	14.82	<=21.67	Pass
		5580	15.08	14.70	<=21.67	Pass
		5700	14.95	15.52	<=21.67	Pass
		5745	15.01	15.46	<=27.69	Pass
		5785	14.86	15.42	<=27.69	Pass
		5825	14.70	15.29	<=27.69	Pass
		5720-UNII 2C	15.09	15.82	<=21.67	Pass
		5720-UNII 3	7.55	7.91	<=27.69	Pass
802.11ac (VHT20)	SISO	5180	10.95	10.57	<=21.67	Pass
		5200	11.27	10.91	<=21.67	Pass
		5240	10.86	10.80	<=21.67	Pass



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		5260	12.45	12.27	<=21.67	Pass
		5300	12.85	12.69	<=21.67	Pass
		5320	13.19	13.08	<=21.67	Pass
		5500	12.46	12.54	<=21.67	Pass
		5580	12.05	11.80	<=21.67	Pass
		5700	12.60	13.10	<=21.67	Pass
		5745	12.55	13.12	<=27.69	Pass
		5785	12.35	13.01	<=27.69	Pass
		5825	12.27	13.02	<=27.69	Pass
		5720-UNII 2C	12.56	13.23	<=21.67	Pass
		5720-UNII 3	5.16	5.89	<=27.69	Pass



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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5180	1.33	0.76	<=8.69	Pass
		5200	0.84	0.36	<=8.69	Pass
		5240	1.53	1.09	<=8.69	Pass
		5260	3.78	3.69	<=8.69	Pass
		5300	4.16	4.43	<=8.69	Pass
		5320	4.69	4.62	<=8.69	Pass
		5500	3.82	3.75	<=8.69	Pass
		5580	3.50	3.15	<=8.69	Pass
802.11n (HT20)	SISO	5700	3.83	4.27	<=8.69	Pass
		5180	0.55	0.62	<=8.69	Pass
		5200	1.11	0.83	<=8.69	Pass
		5240	0.89	0.87	<=8.69	Pass
		5260	3.23	3.28	<=8.69	Pass
		5300	4.02	3.87	<=8.69	Pass
		5320	4.06	4.22	<=8.69	Pass
		5500	3.52	3.20	<=8.69	Pass
802.11ac (VHT20)	SISO	5580	3.58	3.15	<=8.69	Pass
		5700	3.59	3.97	<=8.69	Pass
		5180	1.06	0.49	<=8.69	Pass
		5200	1.37	0.85	<=8.69	Pass
		5240	0.97	0.67	<=8.69	Pass
		5260	0.90	0.75	<=8.69	Pass
		5300	1.30	1.31	<=8.69	Pass
		5320	1.78	1.62	<=8.69	Pass
	SISO	5500	0.94	1.05	<=8.69	Pass
		5580	0.51	0.17	<=8.69	Pass
		5700	1.04	1.73	<=8.69	Pass



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4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5745	0.83	1.29	≤ 27.69	Pass
		5785	0.46	1.40	≤ 27.69	Pass
		5825	0.58	1.48	≤ 27.69	Pass
802.11n (HT20)	SISO	5745	0.59	1.14	≤ 27.69	Pass
		5785	0.47	0.97	≤ 27.69	Pass
		5825	0.45	0.87	≤ 27.69	Pass
802.11ac (VHT20)	SISO	5745	-1.71	-1.08	≤ 27.69	Pass
		5785	-2.04	-1.39	≤ 27.69	Pass
		5825	-2.24	-1.40	≤ 27.69	Pass

PSD for Straddle Channel

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5720-UNII 2C	3.80	4.38	≤ 8.69	Pass
		5720-UNII 3	1.15	1.70	≤ 27.69	Pass
802.11n (HT20)	SISO	5720-UNII 2C	3.56	4.17	≤ 8.69	Pass
		5720-UNII 3	0.60	1.54	≤ 27.69	Pass
802.11ac (VHT20)	SISO	5720-UNII 2C	0.94	1.77	≤ 8.69	Pass
		5720-UNII 3	-1.62	-0.99	≤ 27.69	Pass



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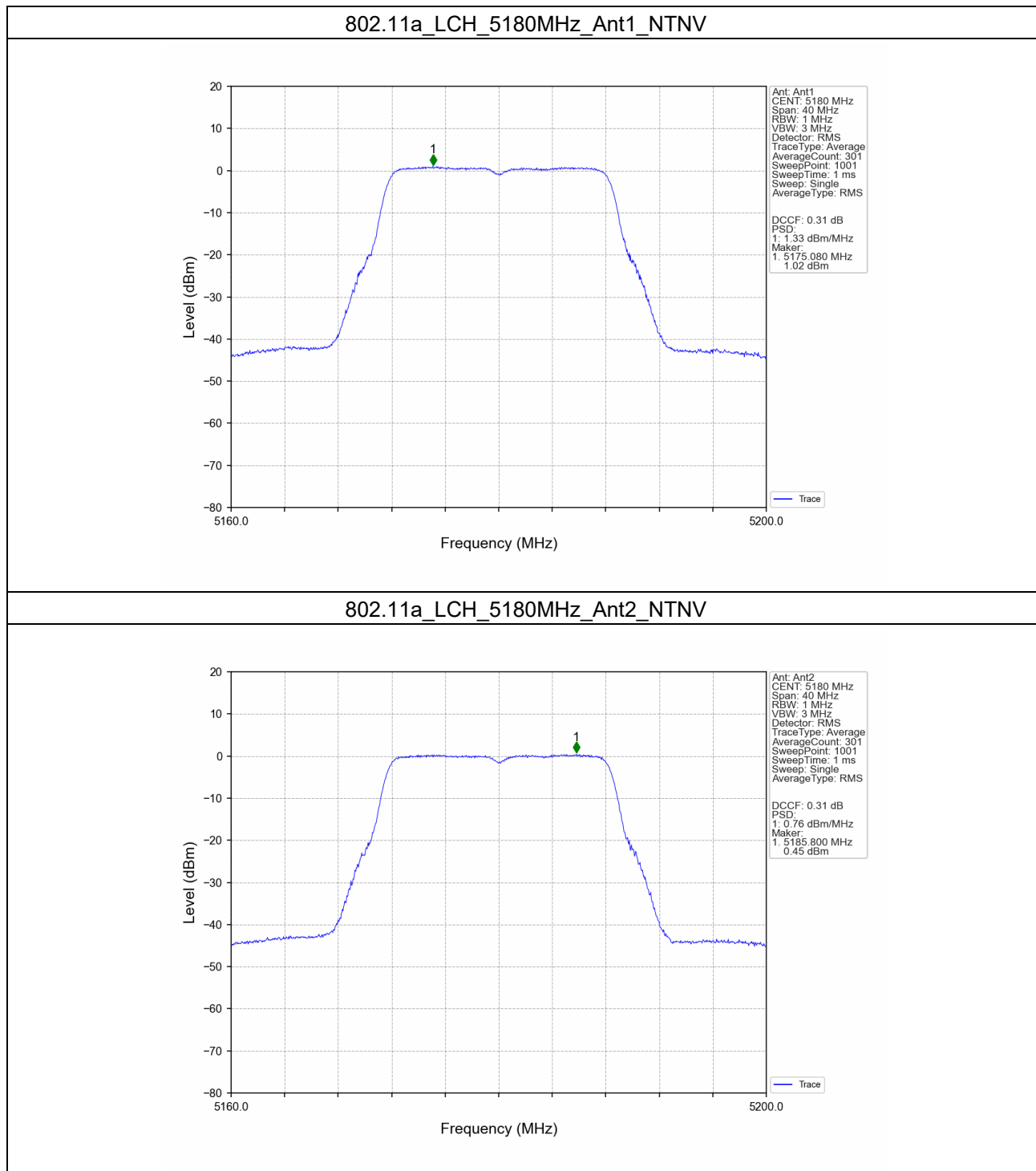
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4.2 Test Graph

4.2.1 PSD



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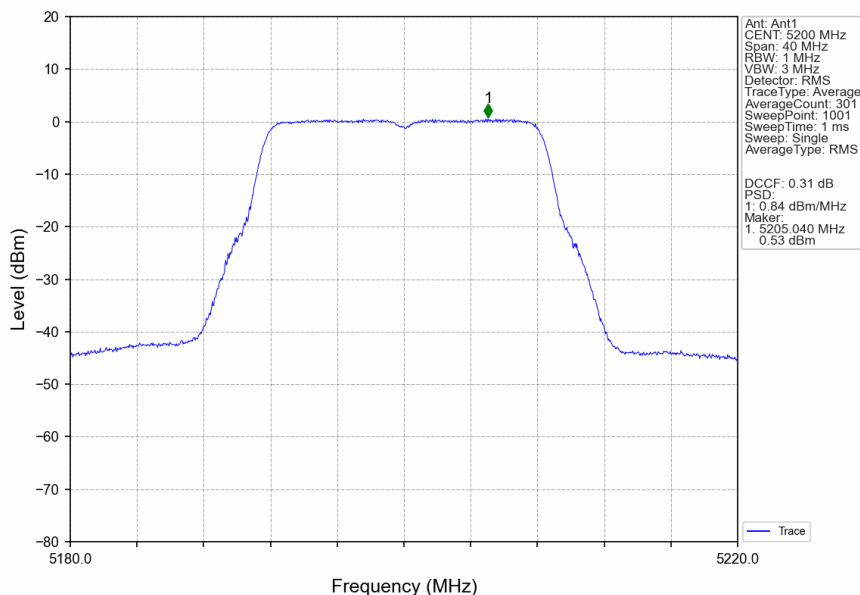
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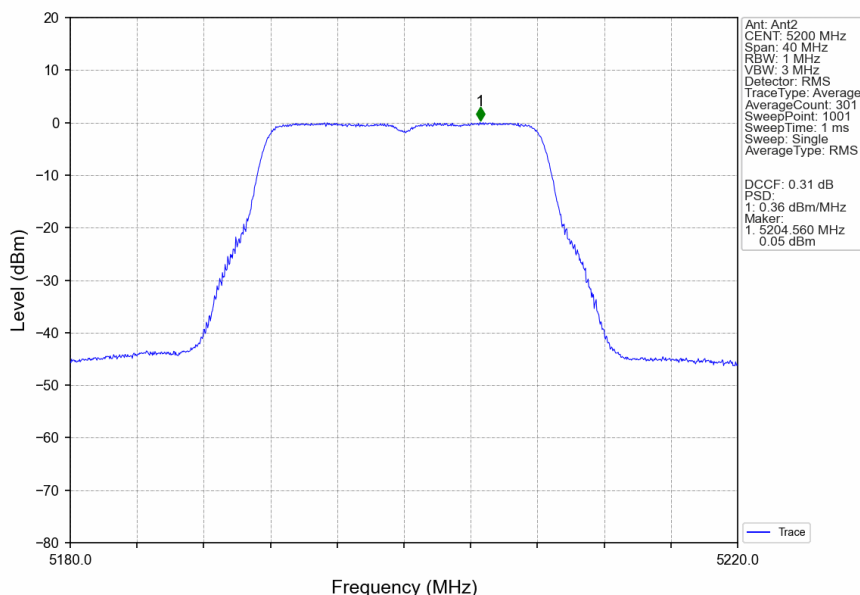
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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



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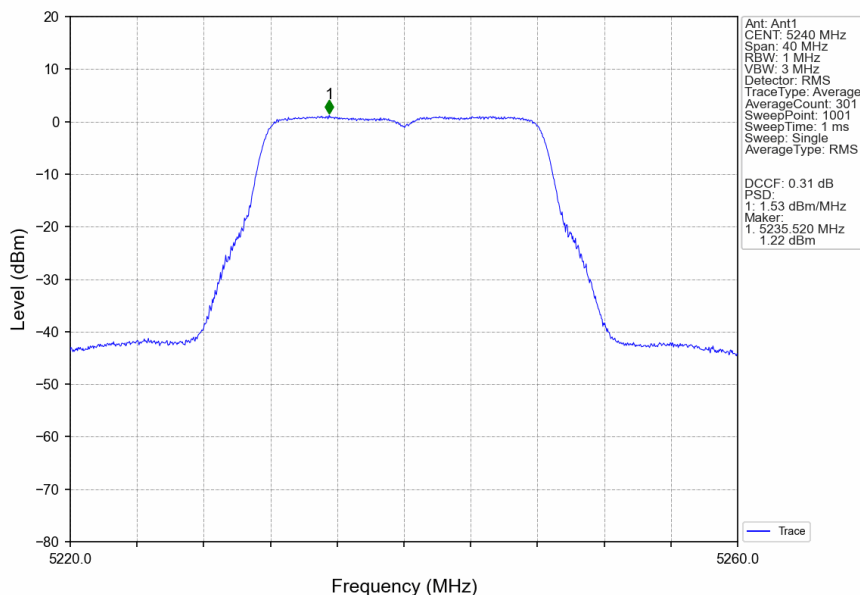
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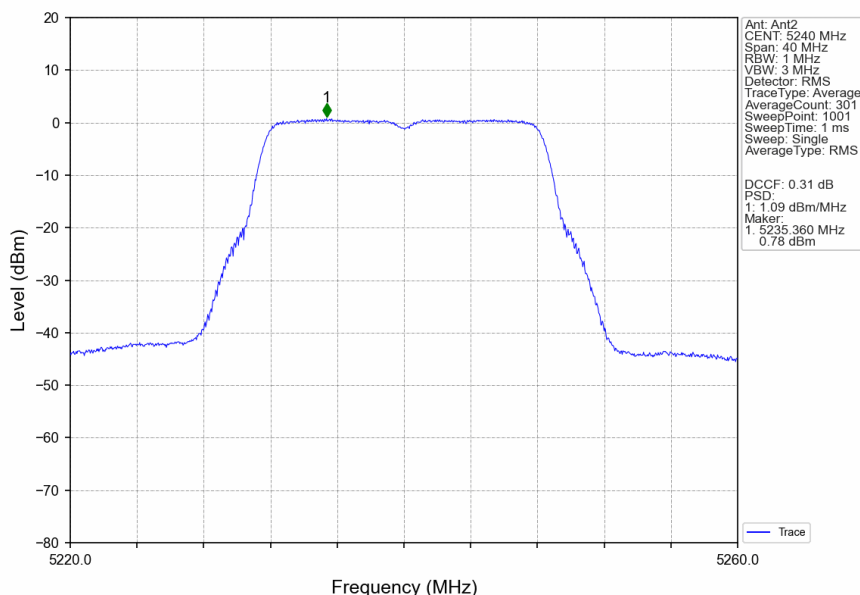
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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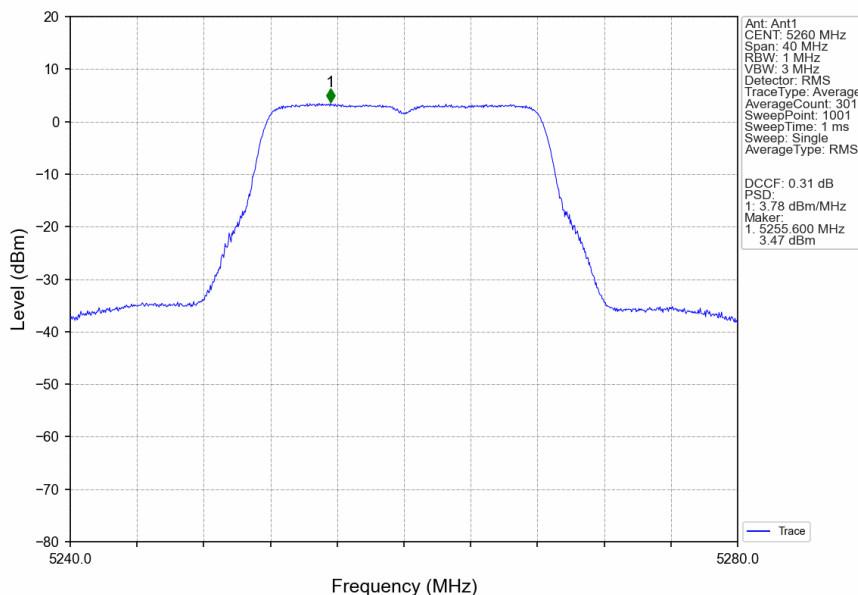
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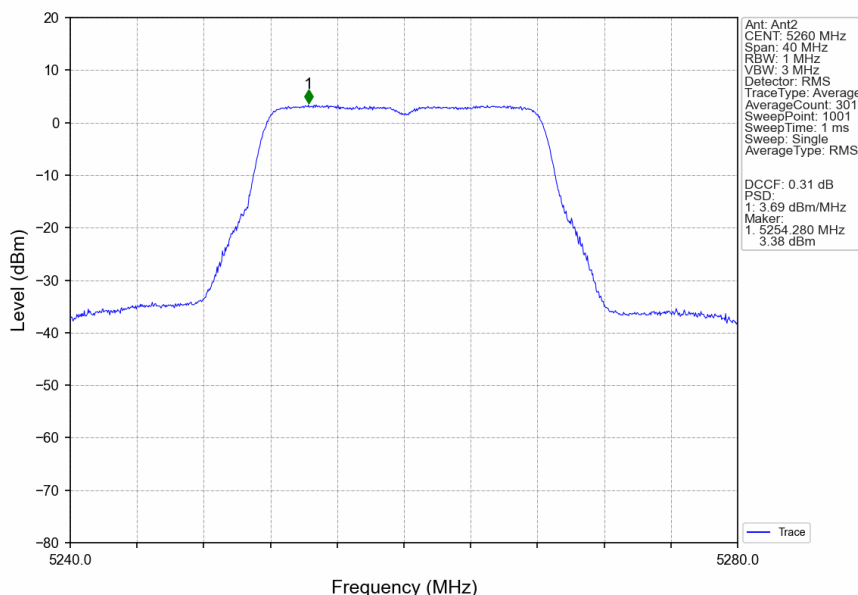
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802.11a_LCH_5260MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant2_NTNV



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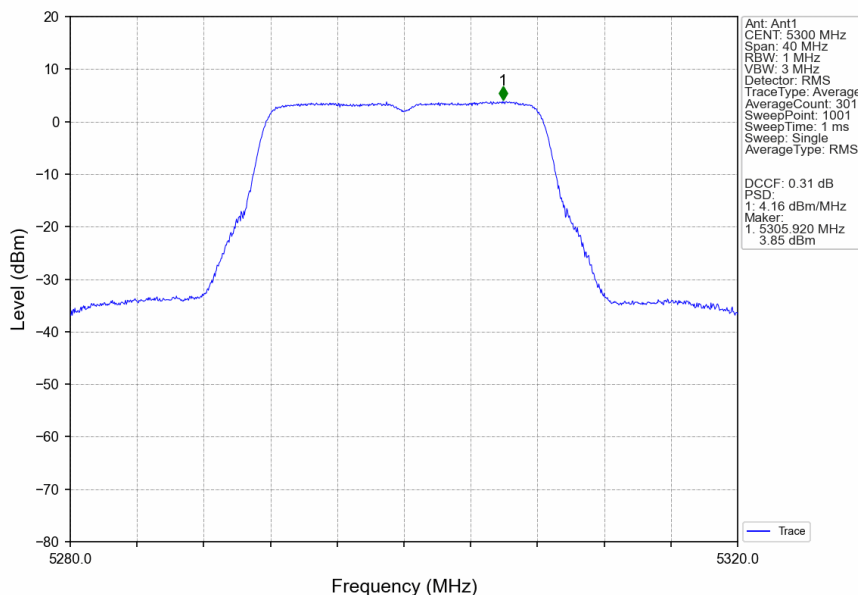
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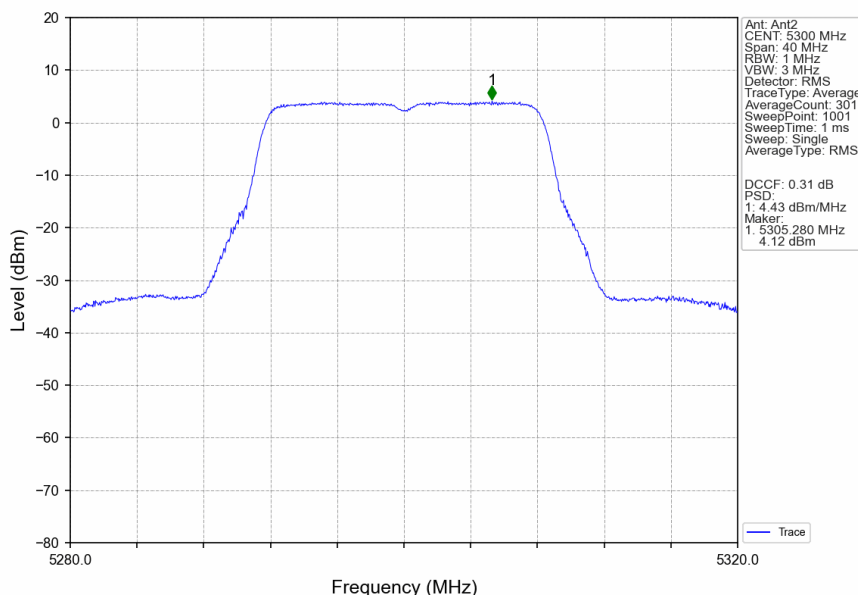
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802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_MCH_5300MHz_Ant2_NTNV



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