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Annex for 5G Wi-Fi Band 1

Test Report No.:CTL2505298041-WF04

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FCC ID: 2BLP-G7A1

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	/	/	1.393	1.427	97.62	0.10	0.03
		5200	/	/	1.392	1.427	97.55	0.11	0.03
		5240	/	/	1.392	1.428	97.48	0.11	0.03
802.11n (HT20)	SISO	5180	/	/	1.300	1.335	97.38	0.12	0.03
		5200	/	/	1.300	1.335	97.38	0.12	0.03
		5240	/	/	1.300	1.336	97.31	0.12	0.03
802.11n (HT40)	SISO	5190	/	/	0.649	0.683	95.02	0.22	0.03
		5230	/	/	0.648	0.683	94.88	0.23	0.10
802.11ac (VHT20)	SISO	5180	/	/	1.313	1.348	97.40	0.11	0.07
		5200	/	/	1.313	1.347	97.48	0.11	0.07
		5240	/	/	1.312	1.348	97.33	0.12	0.03
802.11ac (VHT40)	SISO	5190	/	/	100.000	100.000	100.00	0.00	0.00
		5230	/	/	0.652	0.687	94.91	0.23	0.04
802.11ac (VHT80)	SISO	5210	/	/	100.000	100.000	100.00	0.00	0.00
802.11ax (HEW20)	SISO	5180	SU	/	1.013	1.049	96.57	0.15	0.03
		5200	SU	/	1.014	1.049	96.66	0.15	0.03
		5240	SU	/	1.015	1.050	96.67	0.15	0.07
802.11ax (HEW40)	SISO	5190	SU	/	100.000	100.000	100.00	0.00	0.00
		5230	SU	/	0.534	0.570	93.68	0.28	0.11
802.11ax (HEW80)	SISO	5210	SU	/	100.000	100.000	100.00	0.00	0.00

1.1.2 Ant2

Ant2									
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	/	/	1.392	2.039	68.27	1.66	11.67
		5200	/	/	1.393	1.427	97.62	0.10	0.03
		5240	/	/	1.395	1.428	97.69	0.10	0.00
802.11n (HT20)	SISO	5180	/	/	1.300	1.334	97.45	0.11	0.03
		5200	/	/	1.302	1.335	97.53	0.11	0.00
		5240	/	/	1.303	1.336	97.53	0.11	0.03
802.11n (HT40)	SISO	5190	/	/	0.648	0.683	94.88	0.23	0.10
		5230	/	/	0.649	0.684	94.88	0.23	0.10
802.11ac (VHT20)	SISO	5180	/	/	1.313	1.347	97.48	0.11	0.07
		5200	/	/	1.312	1.347	97.40	0.11	0.03
		5240	/	/	1.312	1.348	97.33	0.12	0.03
802.11ac (VHT40)	SISO	5190	/	/	0.652	0.686	95.04	0.22	0.03
		5230	/	/	0.653	0.688	94.91	0.23	0.03
802.11ac (VHT80)	SISO	5210	/	/	0.325	0.359	90.53	0.43	0.14
802.11ax (HEW20)	SISO	5180	SU	/	1.014	1.049	96.66	0.15	0.03
		5200	SU	/	1.014	1.049	96.66	0.15	0.03

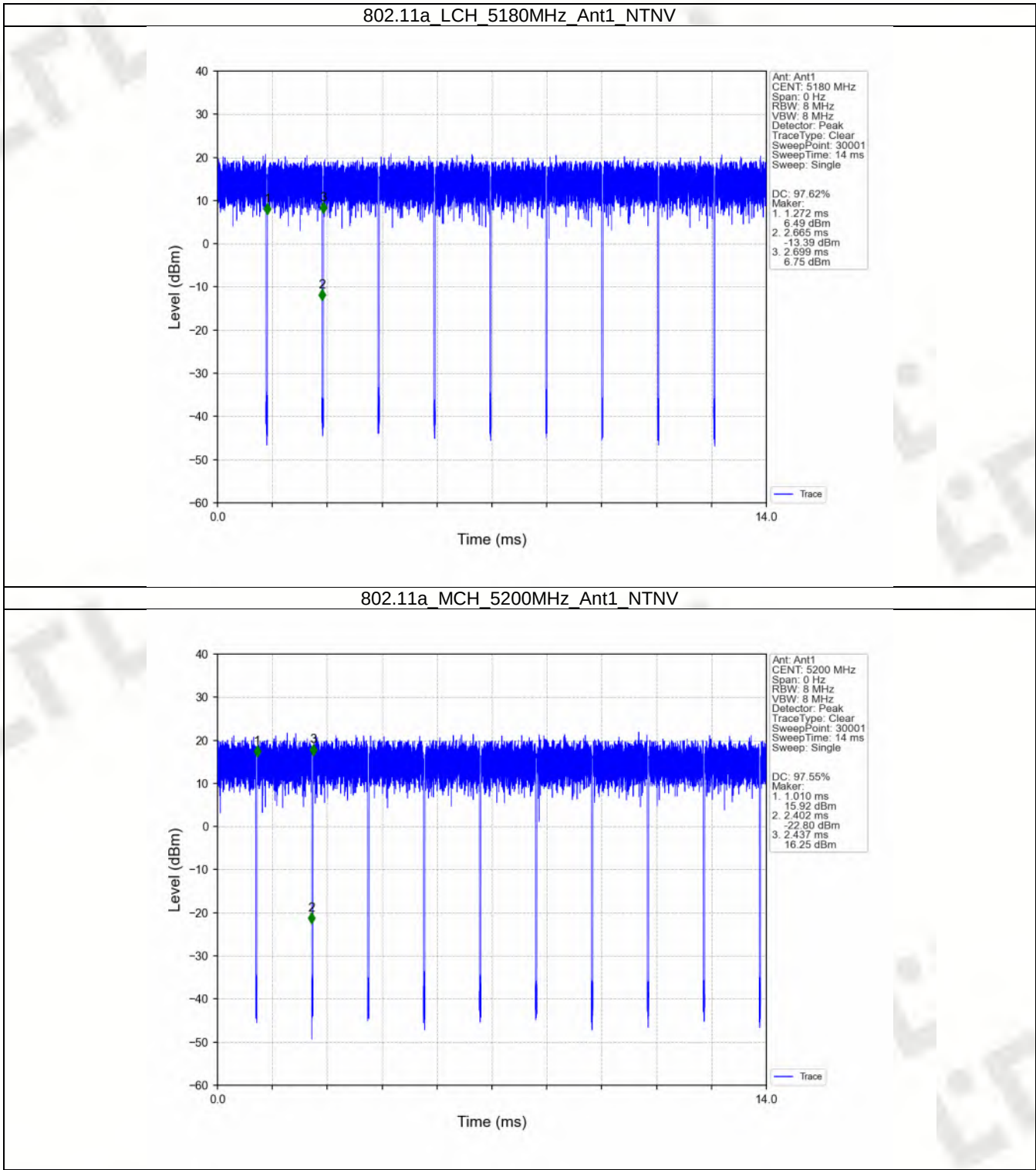
FCC ID: 2BLP-G7A1

		5240	SU	/	1.015	1.050	96.67	0.15	0.03
802.11ax (HEW40)	SISO	5190	SU	/	0.534	0.569	93.85	0.28	0.07
		5230	SU	/	0.534	0.569	93.85	0.28	0.11
802.11ax (HEW80)	SISO	5210	SU	/	0.288	0.322	89.44	0.48	0.20

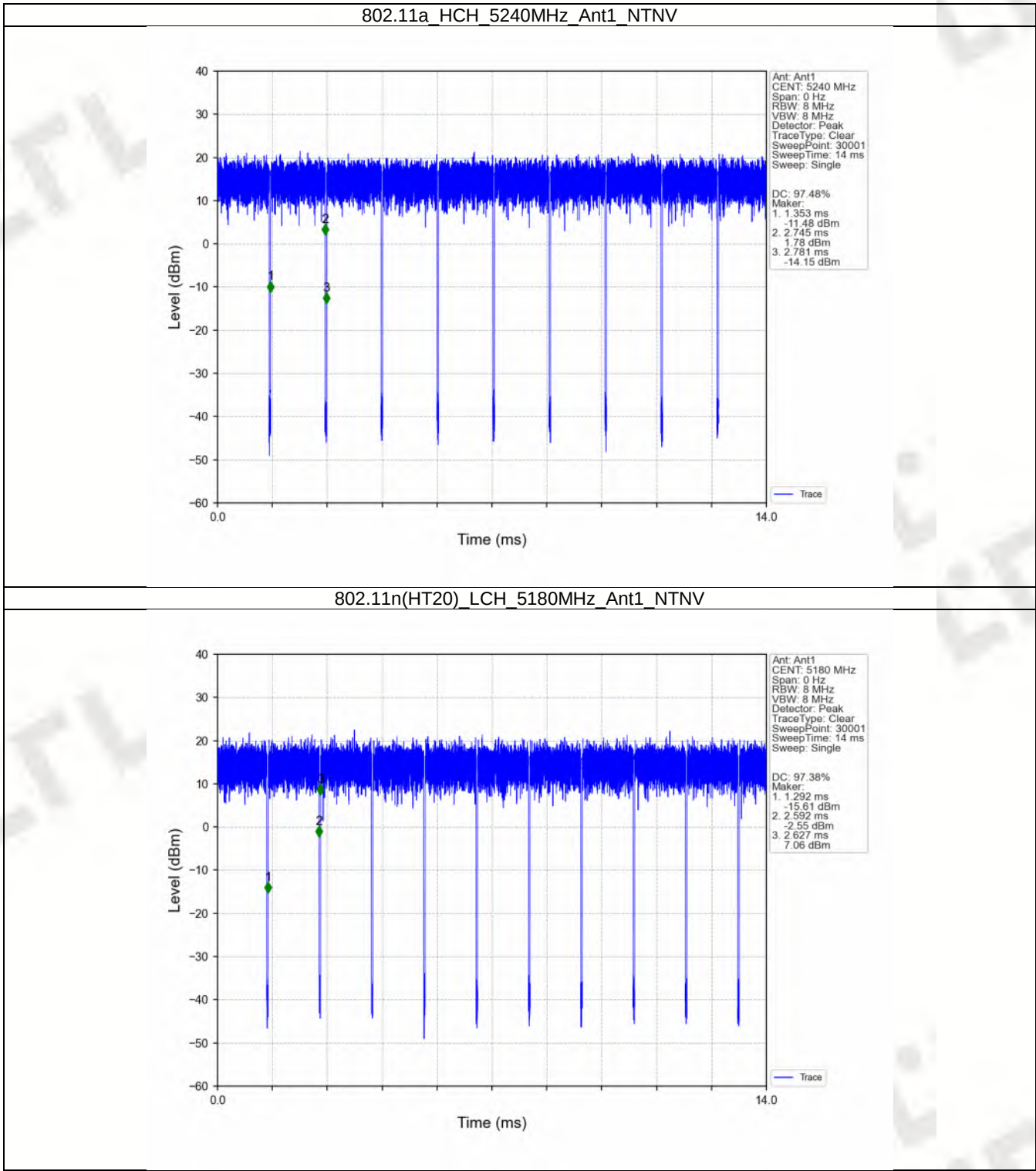
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1.2 Test Graph

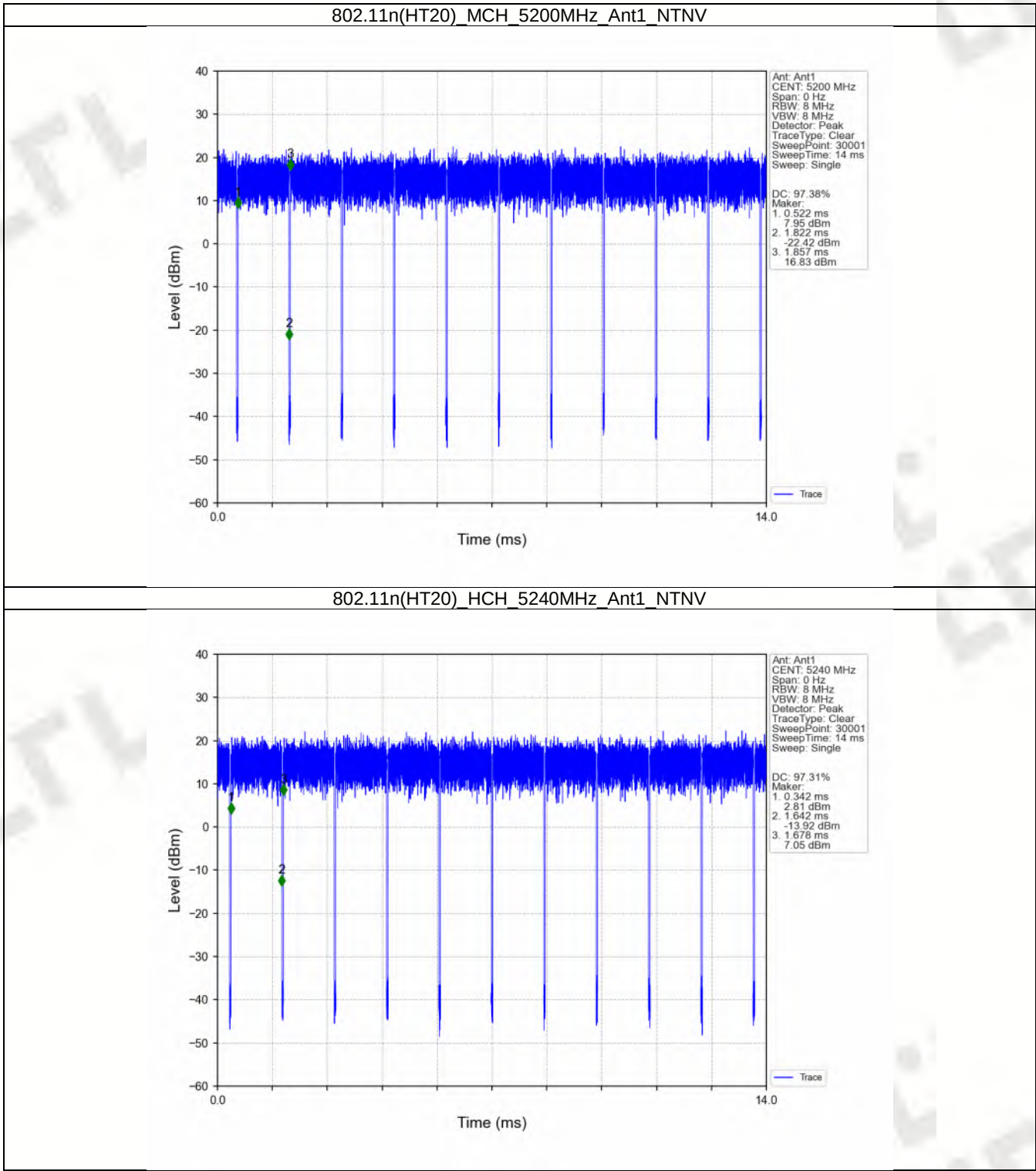
1.2.1 Ant1



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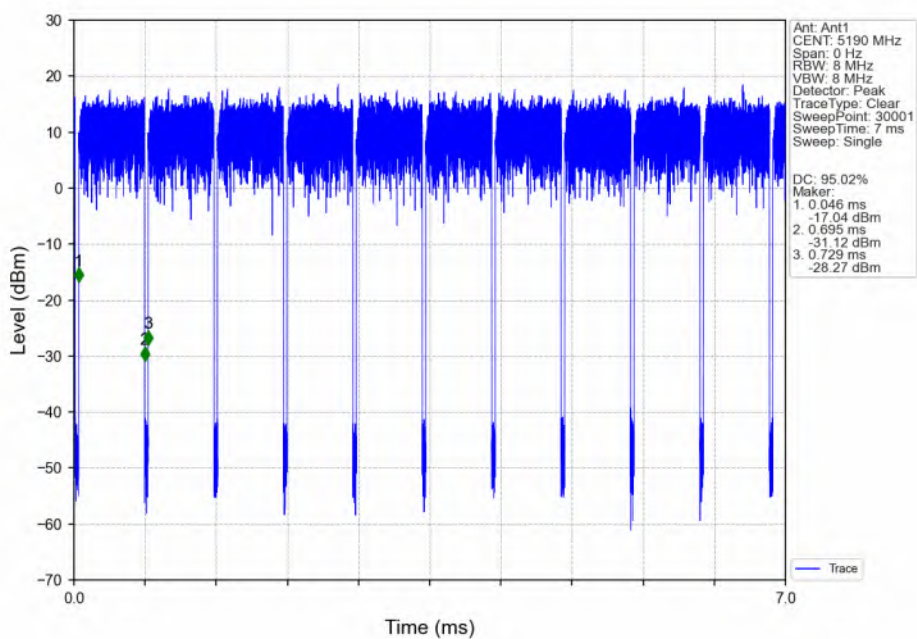


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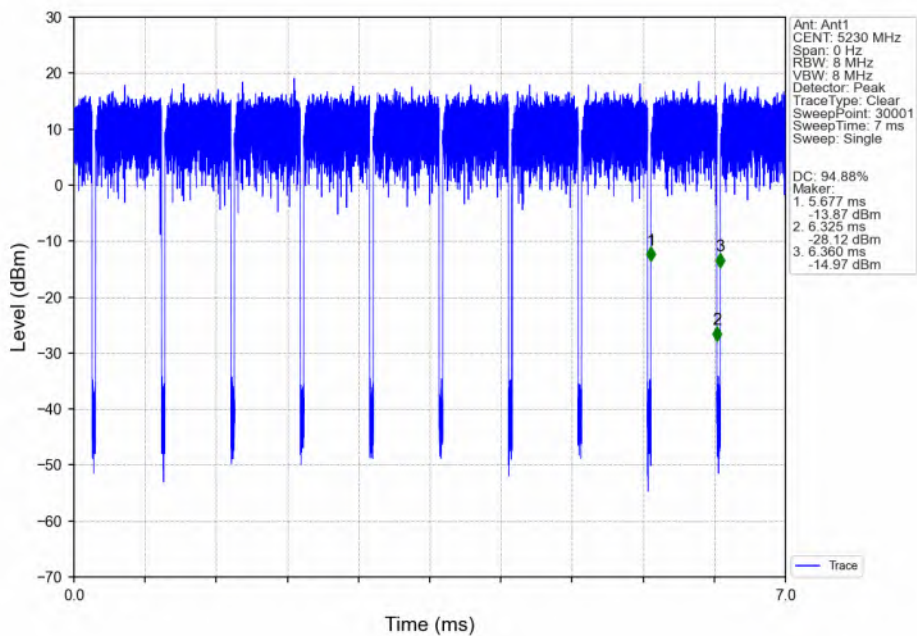


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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

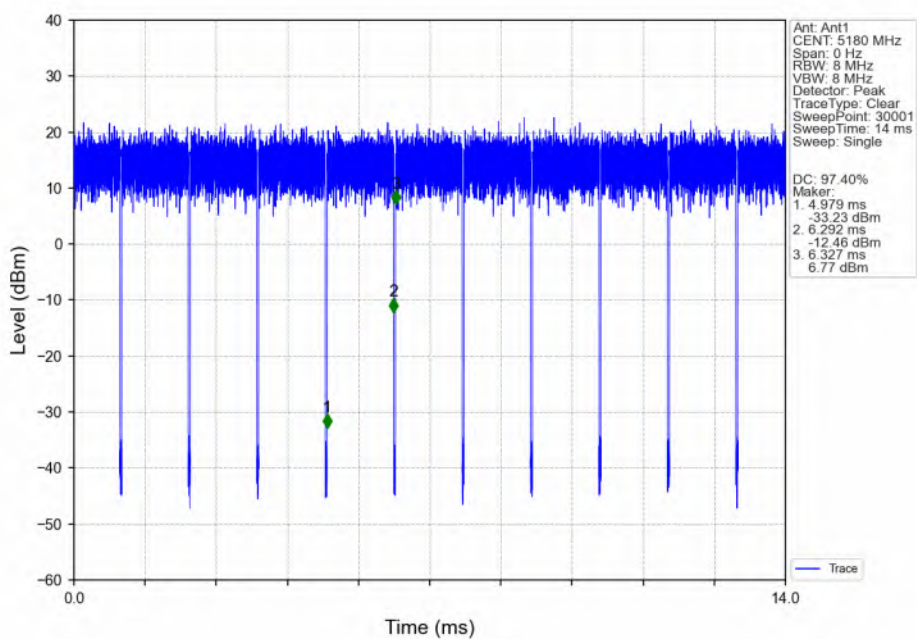


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

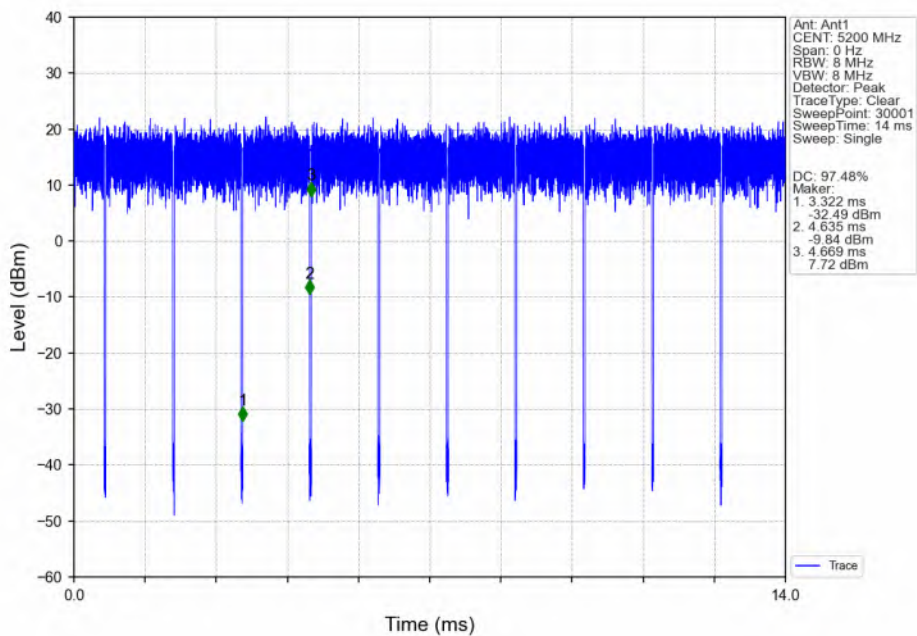


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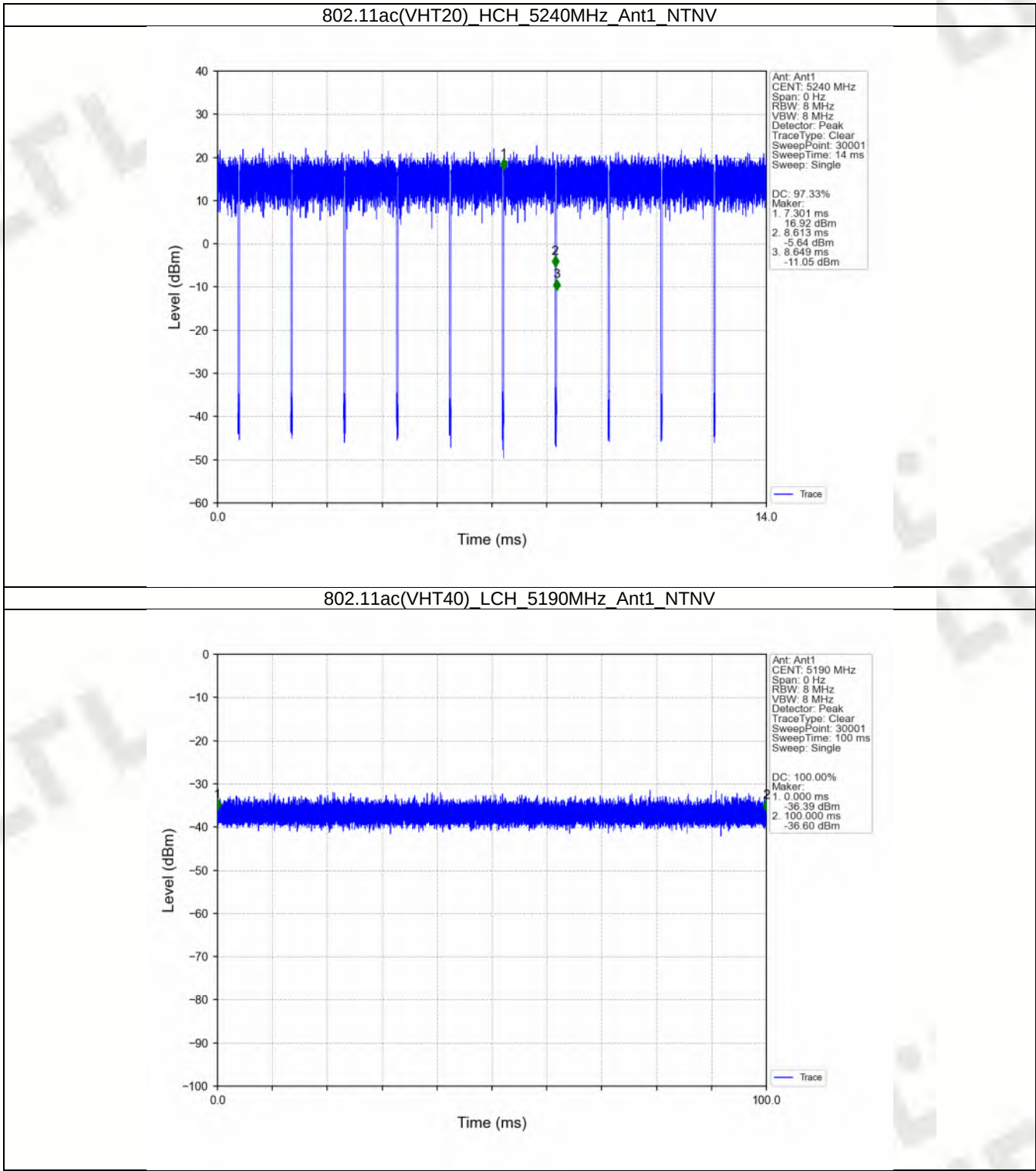
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



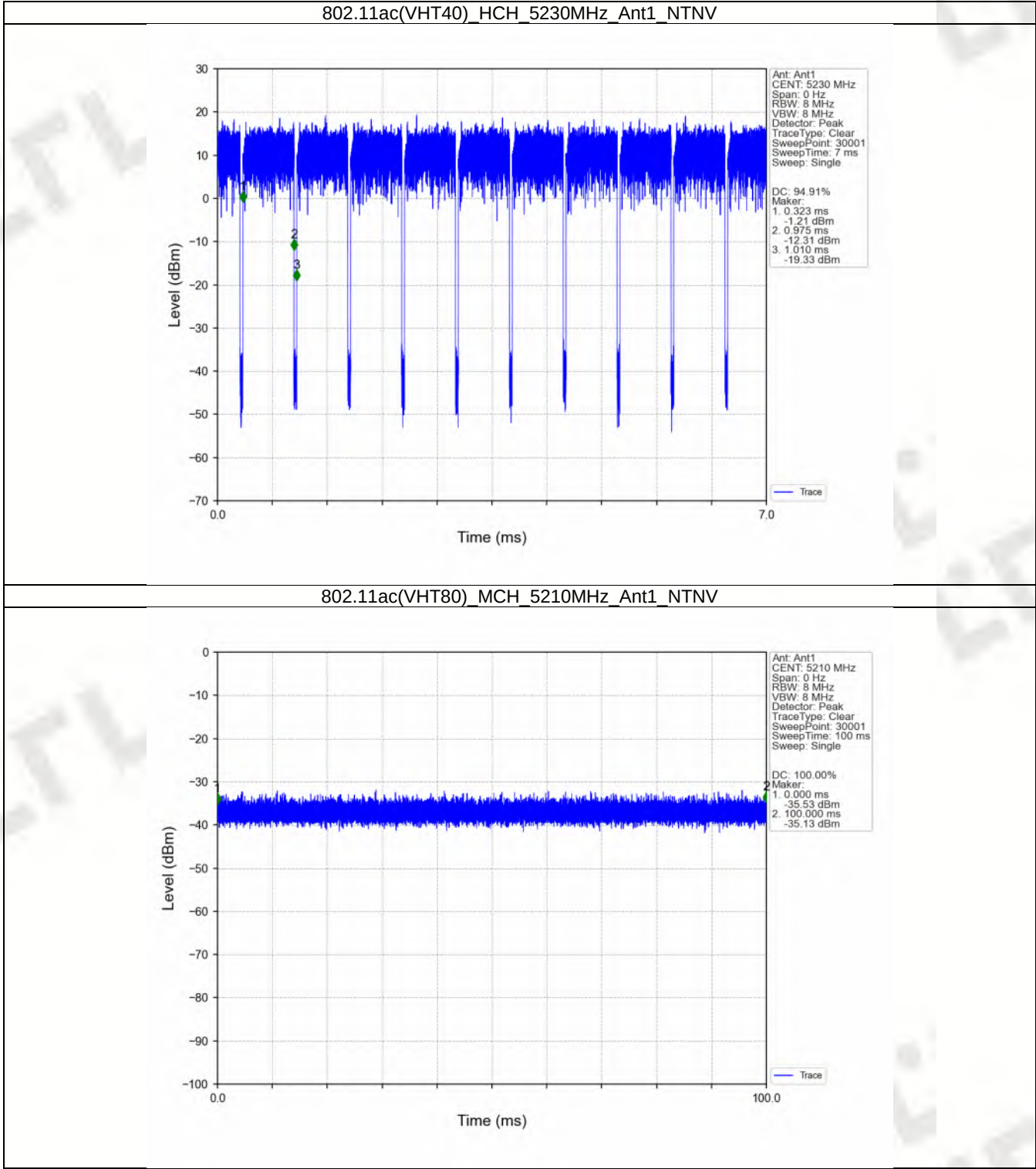
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



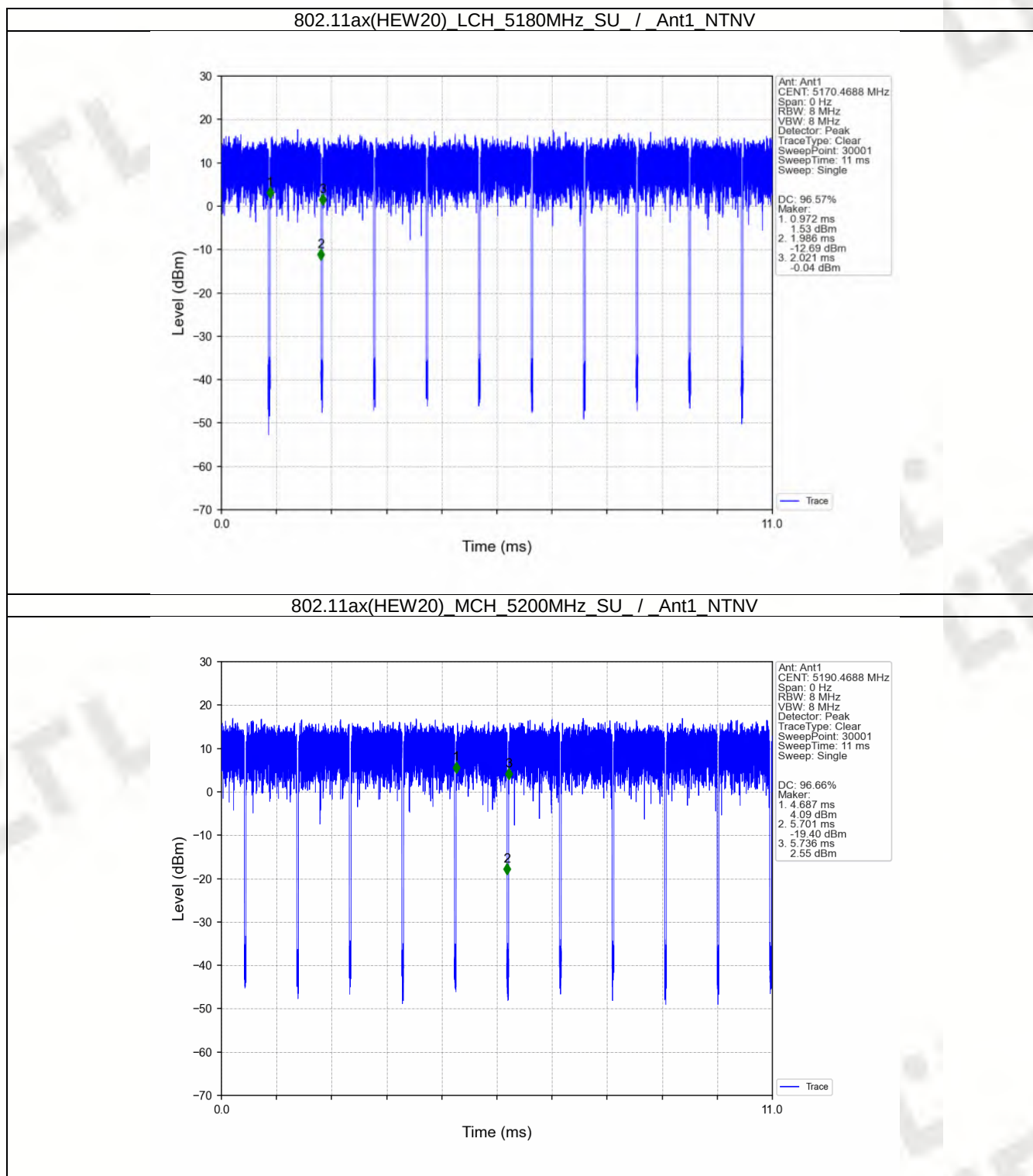
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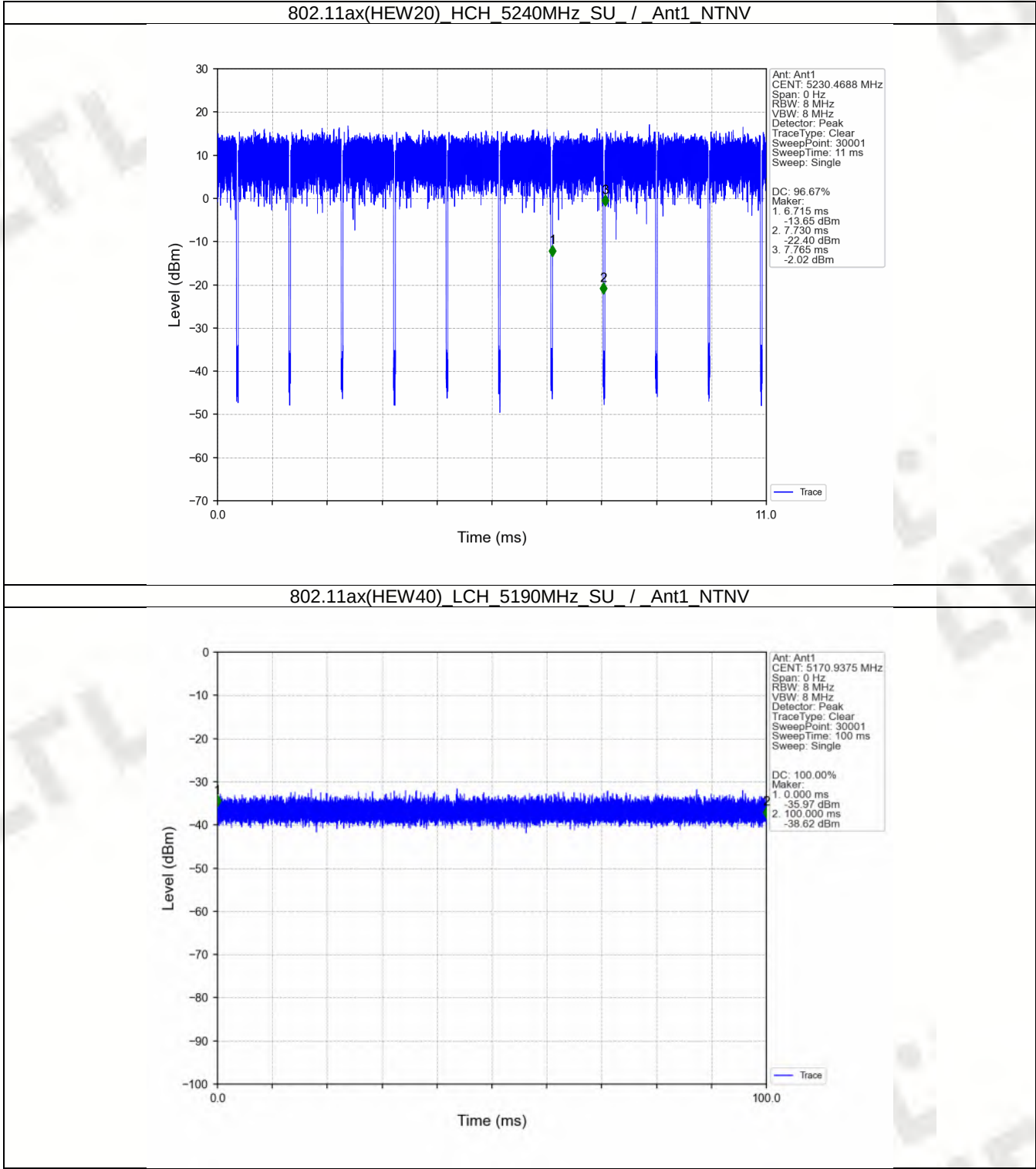
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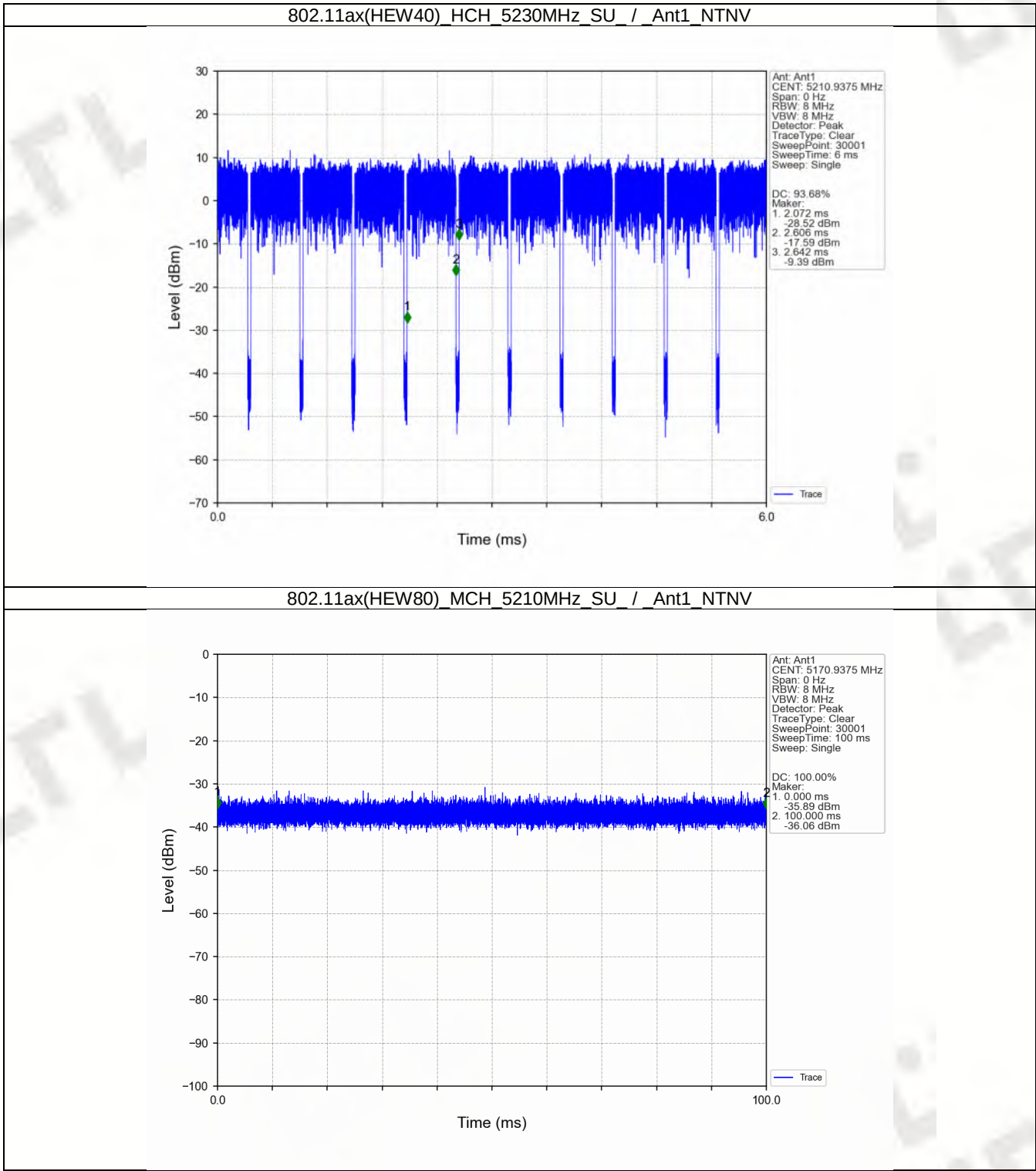
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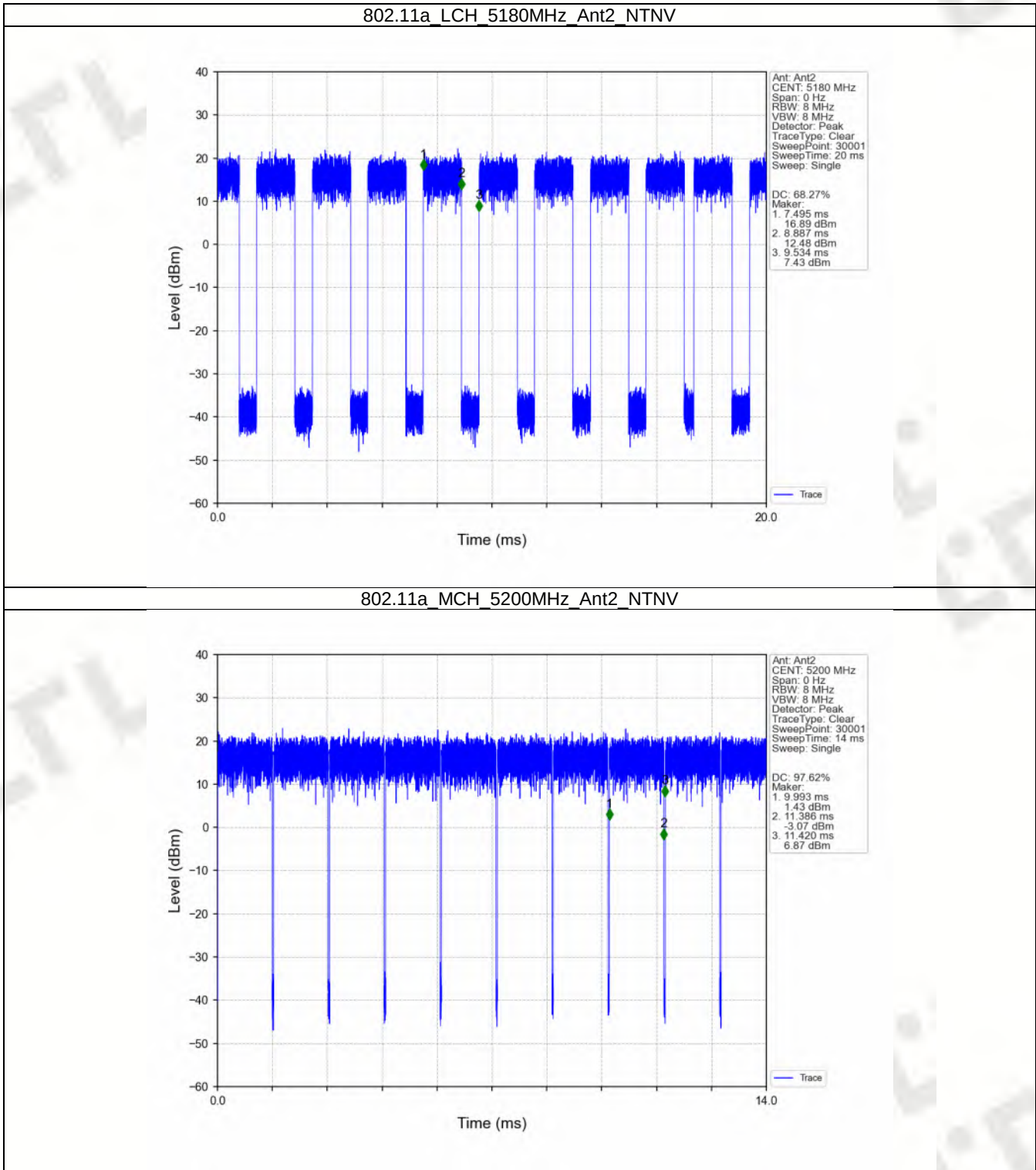


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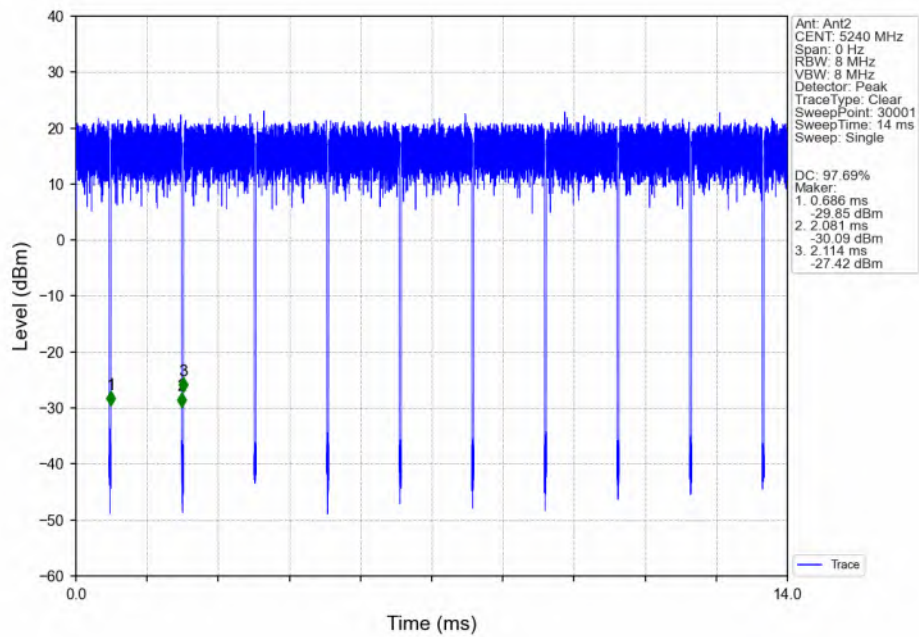
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1.2.2 Ant2

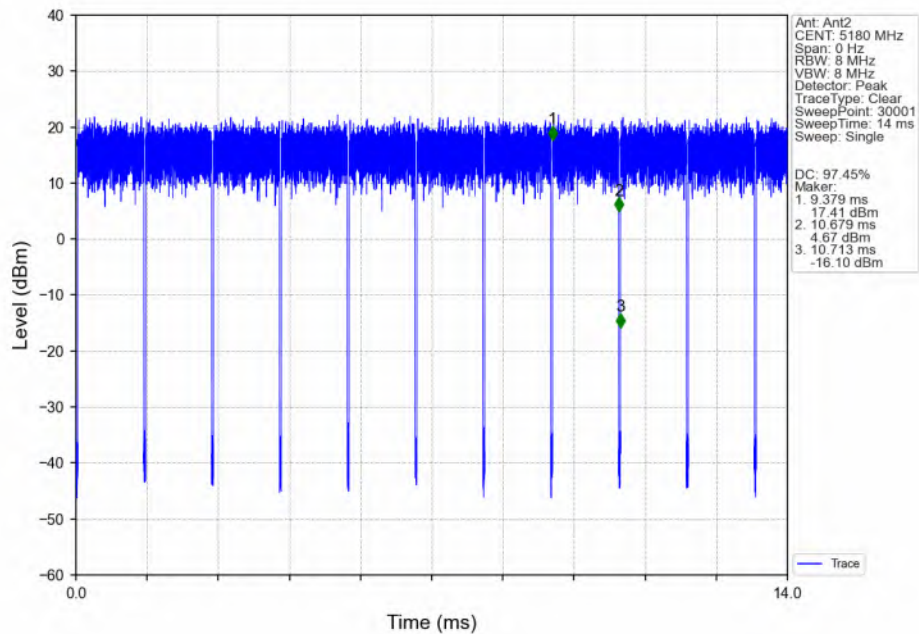


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802.11a_HCH_5240MHz_Ant2_NTNV

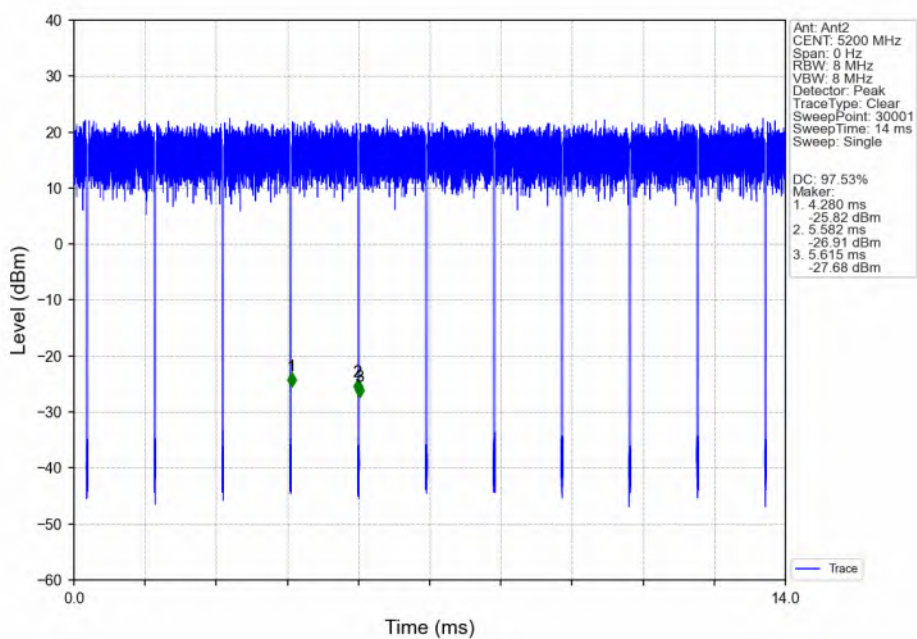


802.11n(HT20)_LCH_5180MHz_Ant2_NTNV

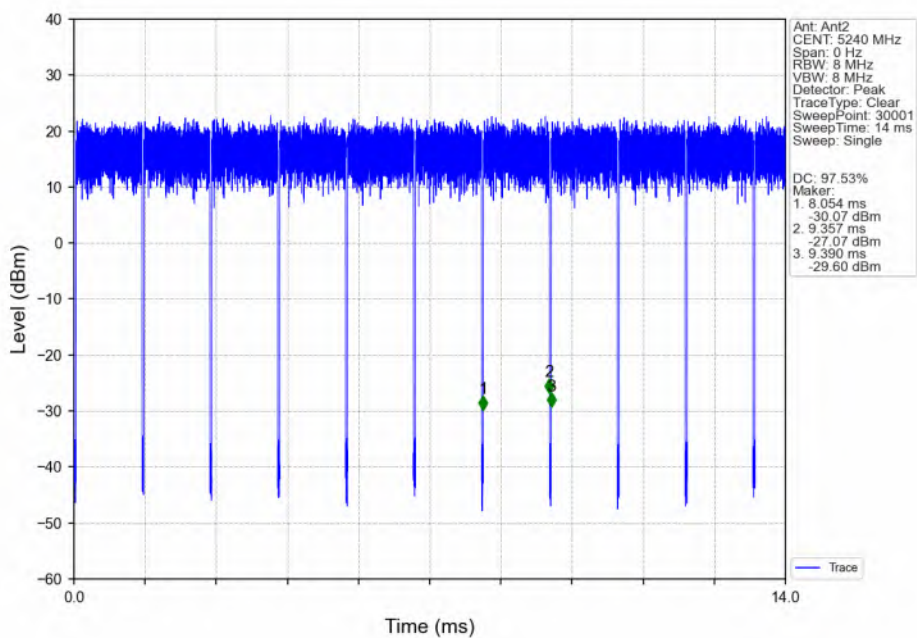


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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV

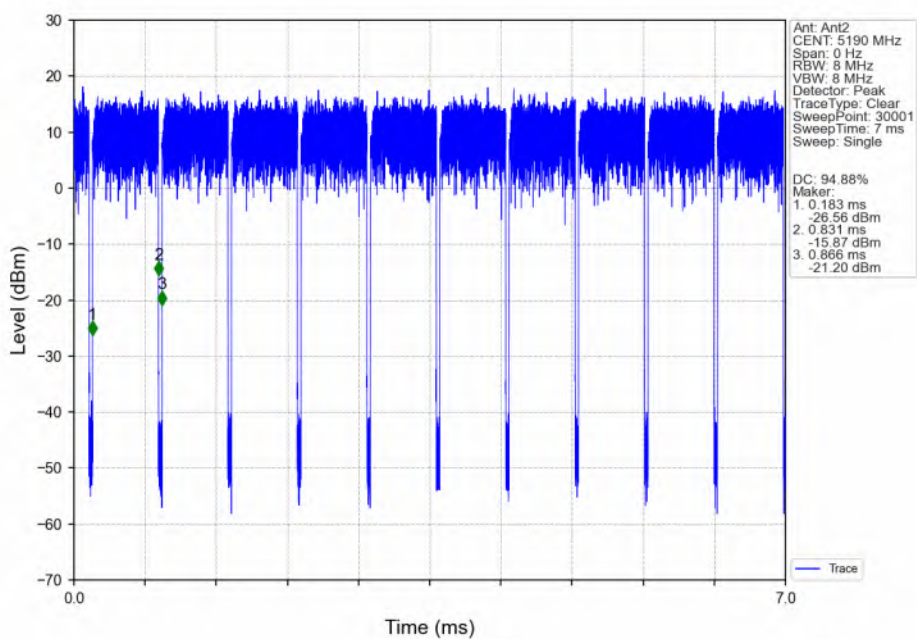


802.11n(HT20)_HCH_5240MHz_Ant2_NTNV

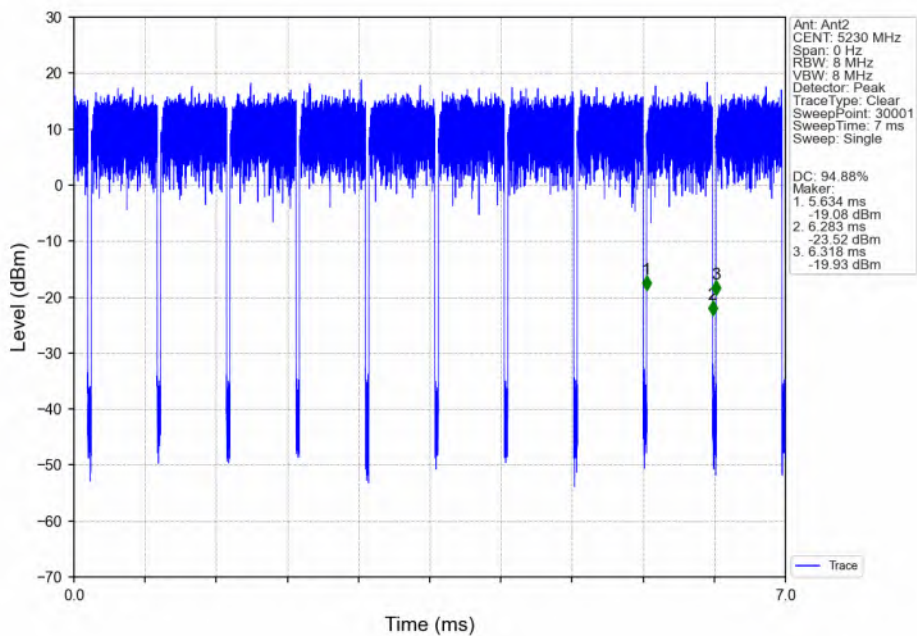


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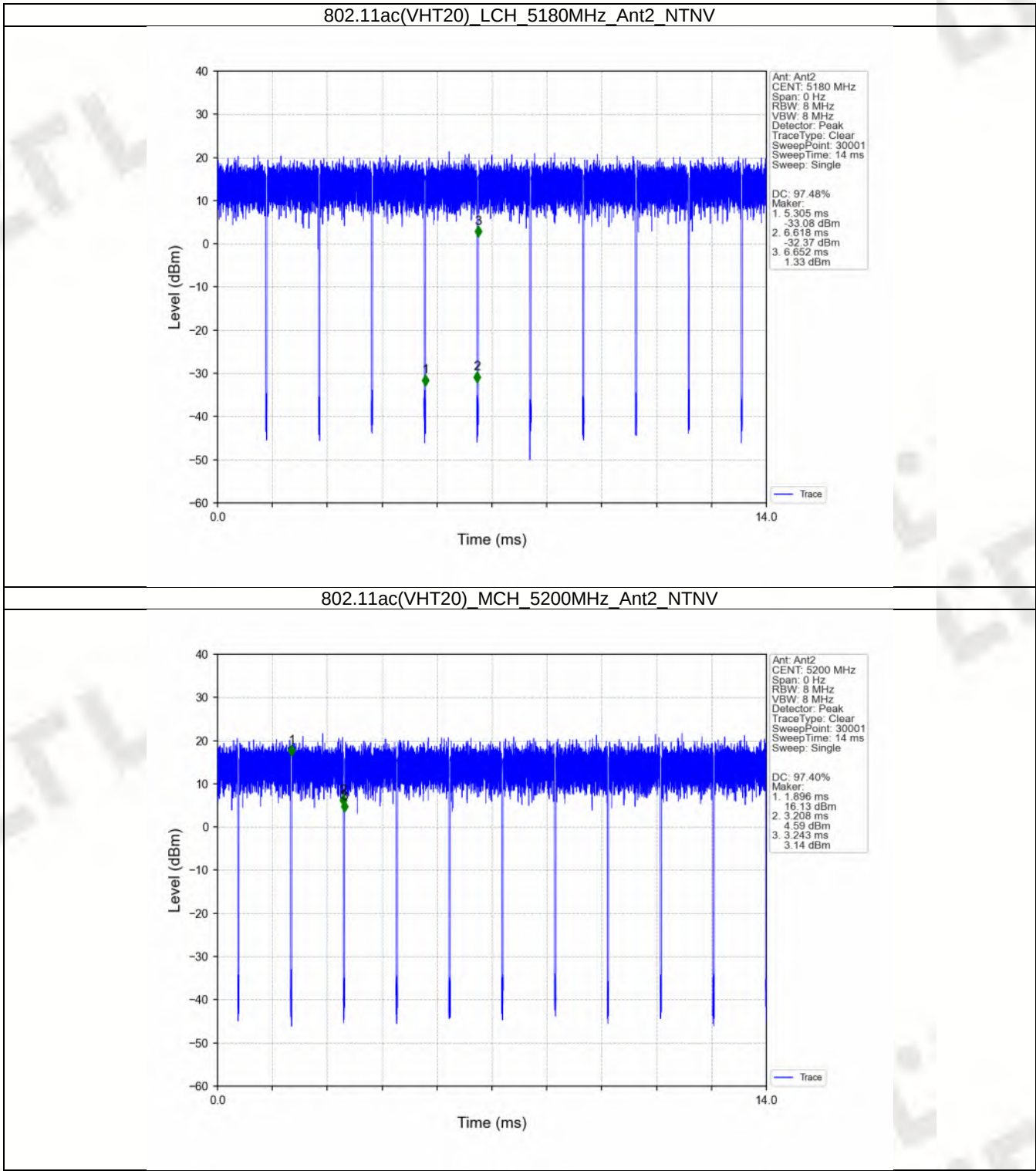
802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



802.11n(HT40)_HCH_5230MHz_Ant2_NTNV

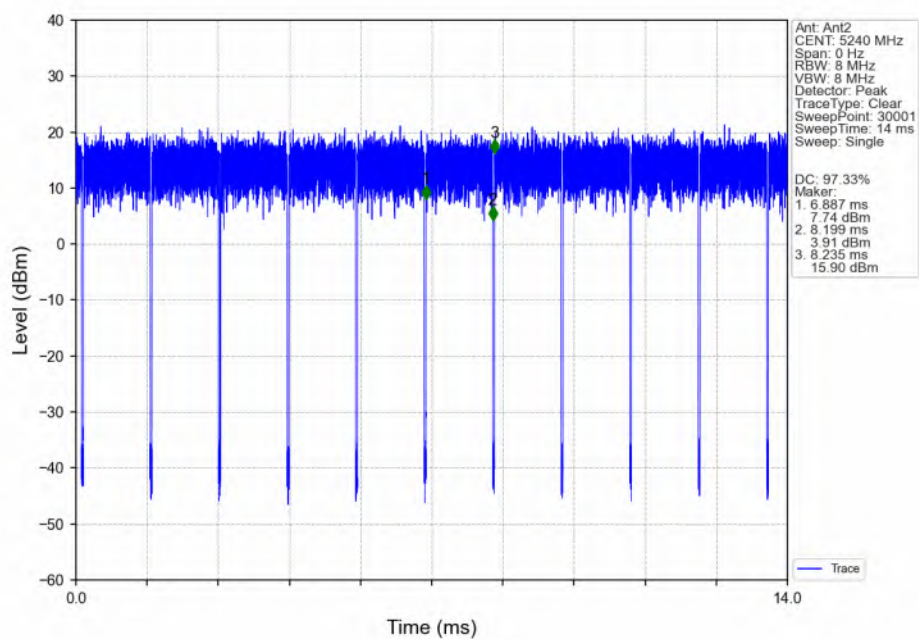


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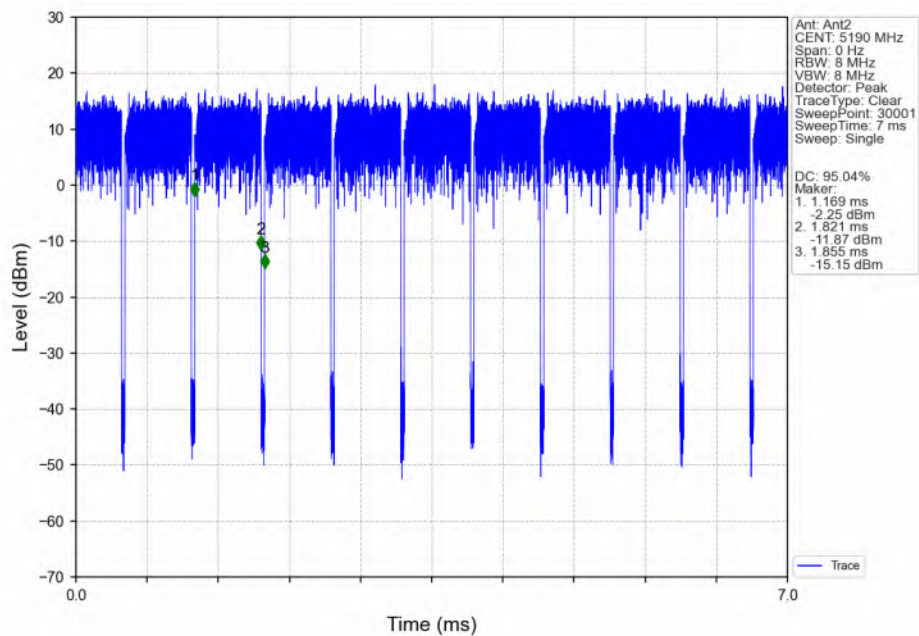


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802.11ac(VHT20) HCH 5240MHz_Ant2_NTNV

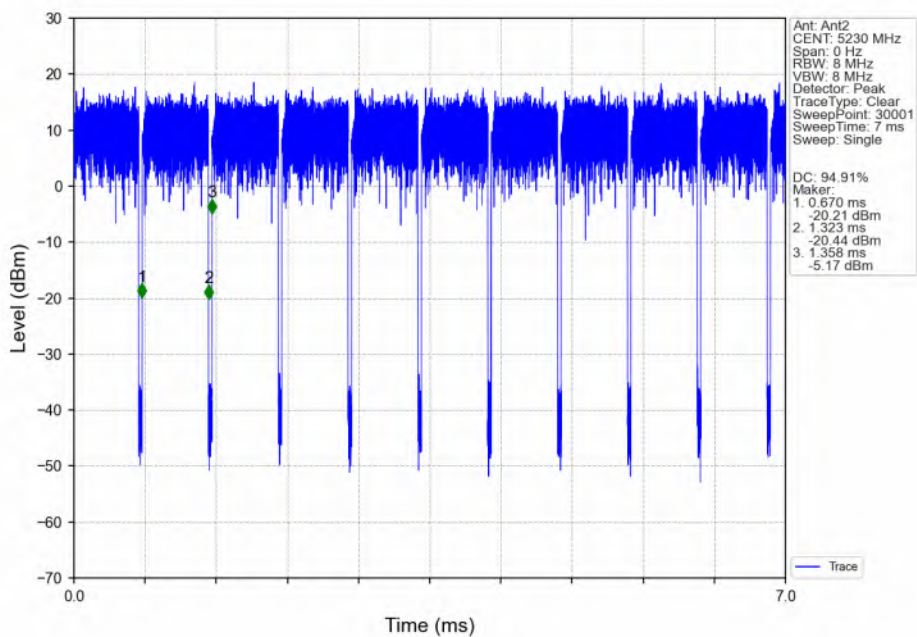


802.11ac(VHT40) LCH 5190MHz_Ant2_NTNV

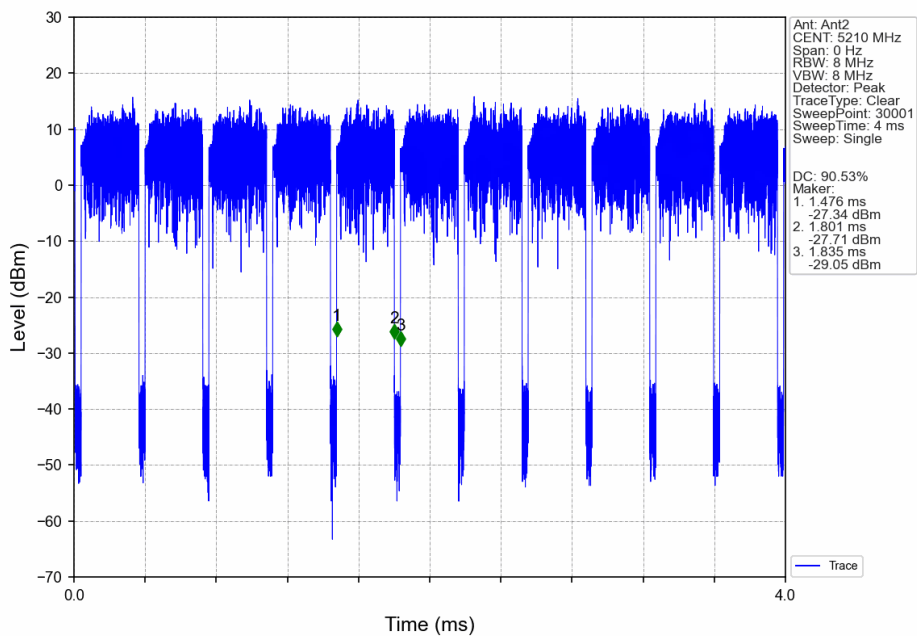


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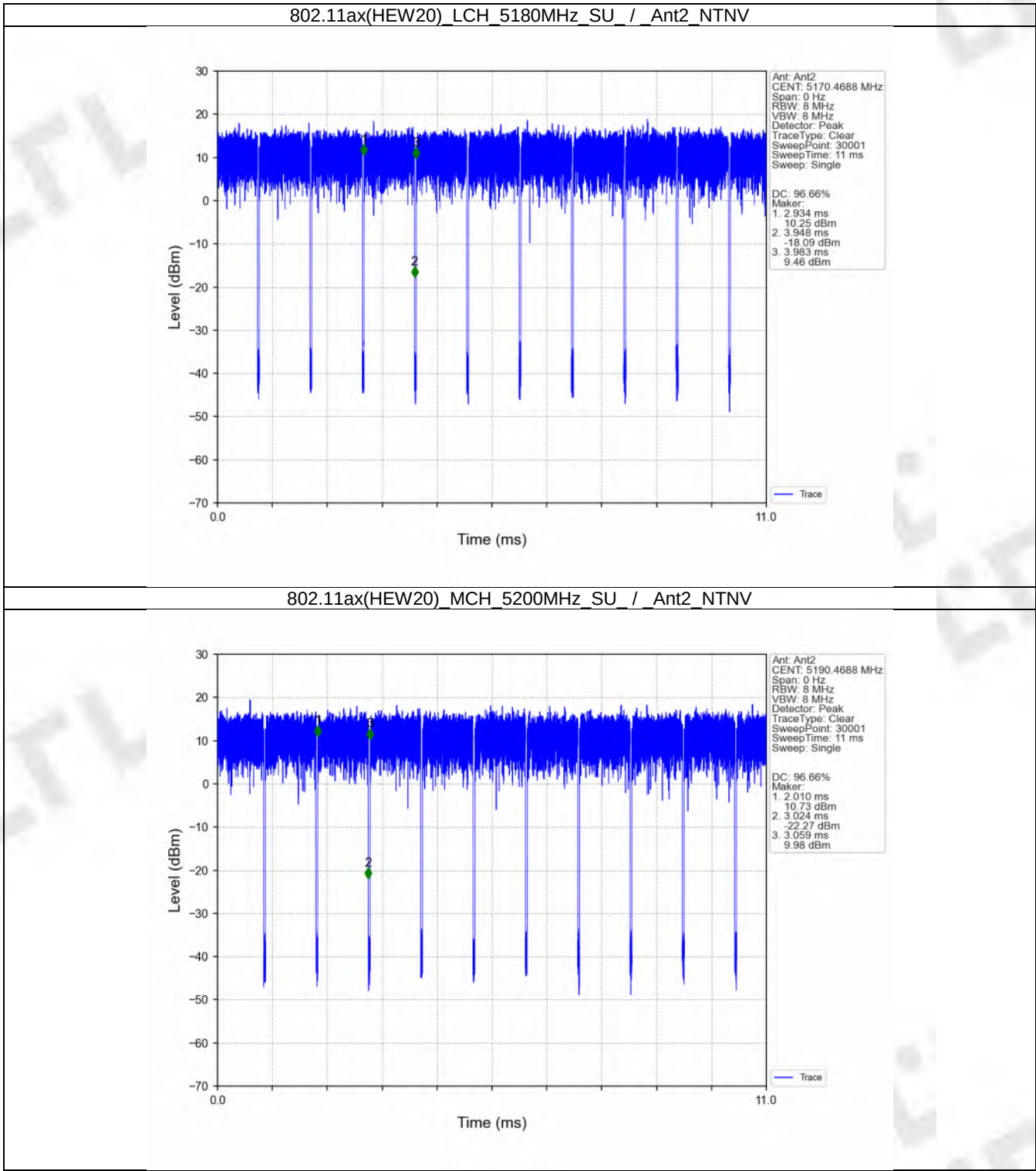
802.11ac(VHT40) HCH 5230MHz_Ant2_NTNV



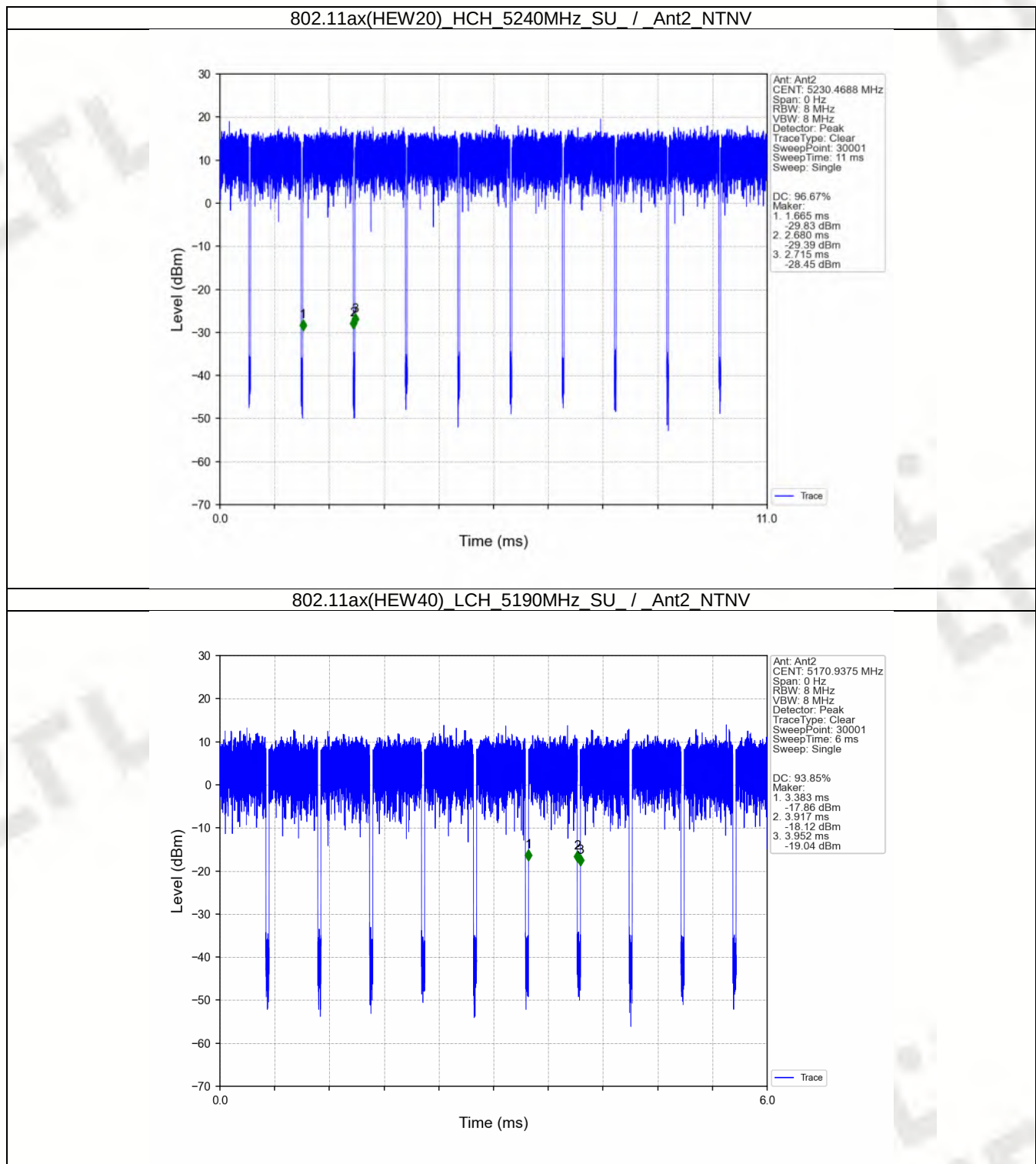
802.11ac(VHT80) MCH 5210MHz_Ant2_NTNV



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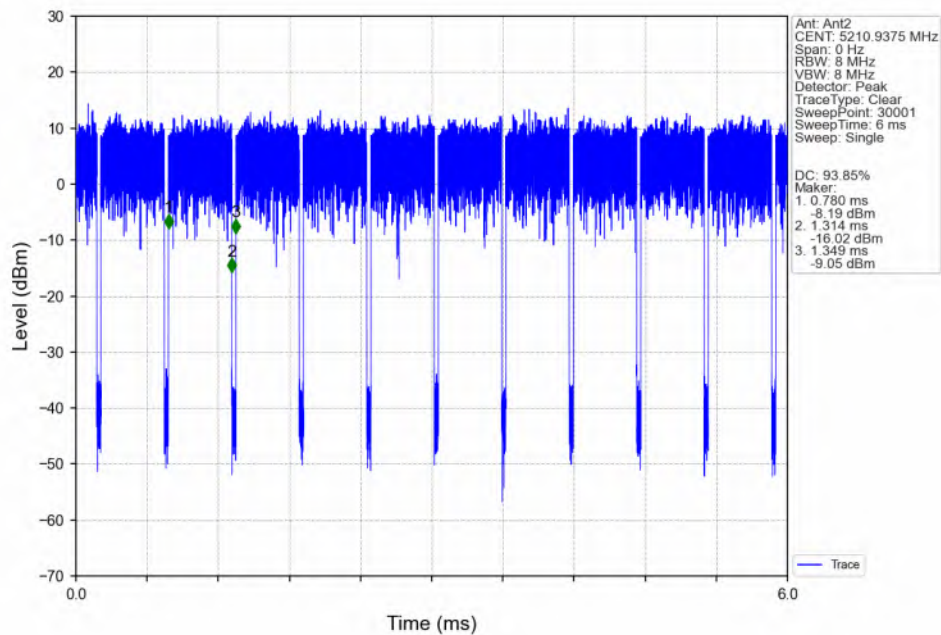


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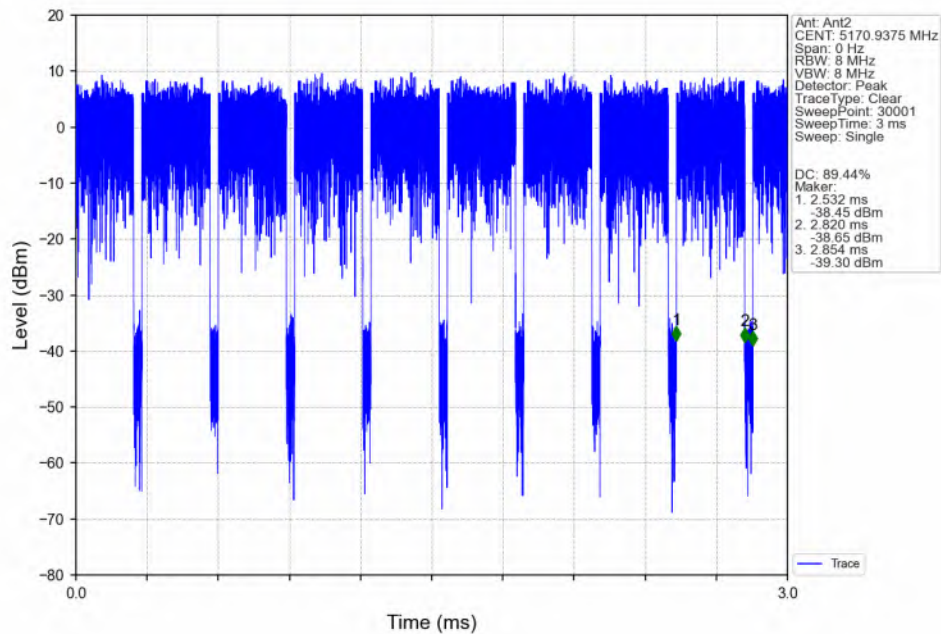


FCC ID: 2BLP-G7A1

802.11ax(HEW40)_HCH_5230MHz_SU_ / Ant2_NTNV



802.11ax(HEW80)_MCH_5210MHz_SU_ / Ant2_NTNV



FCC ID: 2BLP-G7A1

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	19.376	/	Pass
		5200	/	/	1	19.154	/	Pass
		5240	/	/	1	17.168	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	19.780	/	Pass
		5200	/	/	1	19.777	/	Pass
		5240	/	/	1	18.066	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	35.969	/	Pass
		5230	/	/	1	35.919	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	19.821	/	Pass
		5200	/	/	1	19.689	/	Pass
		5240	/	/	1	18.019	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	35.952	/	Pass
		5230	/	/	1	35.837	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	75.206	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	19.301	/	Pass
		5200	SU	/	1	19.311	/	Pass
		5240	SU	/	1	18.979	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	37.658	/	Pass
		5230	SU	/	1	37.567	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	77.187	/	Pass

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	2	18.987	/	Pass
		5200	/	/	2	19.114	/	Pass
		5240	/	/	2	17.337	/	Pass
802.11n (HT20)	SISO	5180	/	/	2	19.692	/	Pass
		5200	/	/	2	19.795	/	Pass
		5240	/	/	2	18.258	/	Pass
802.11n (HT40)	SISO	5190	/	/	2	35.968	/	Pass
		5230	/	/	2	35.966	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	2	19.804	/	Pass
		5200	/	/	2	19.777	/	Pass
		5240	/	/	2	18.043	/	Pass
802.11ac	SISO	5190	/	/	2	35.934	/	Pass

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(VHT40)		5230	/	/	2	35.942	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	2	75.113	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	2	19.354	/	Pass
		5200	SU	/	2	19.443	/	Pass
		5240	SU	/	2	19.098	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	2	37.712	/	Pass
		5230	SU	/	2	37.732	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	2	77.410	/	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	27.985	/	Pass
		5200	/	/	1	27.916	/	Pass
		5240	/	/	1	20.223	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	29.204	/	Pass
		5200	/	/	1	28.571	/	Pass
		5240	/	/	1	21.337	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	40.669	/	Pass
		5230	/	/	1	40.522	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	28.887	/	Pass
		5200	/	/	1	30.507	/	Pass
		5240	/	/	1	20.512	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	40.640	/	Pass
		5230	/	/	1	40.567	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	1	80.613	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	22.502	/	Pass
		5200	SU	/	1	26.477	/	Pass
		5240	SU	/	1	20.201	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	40.054	/	Pass
		5230	SU	/	1	39.801	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	1	81.250	/	Pass

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	2	28.385	/	Pass
		5200	/	/	2	28.686	/	Pass
		5240	/	/	2	25.901	/	Pass
802.11n (HT20)	SISO	5180	/	/	2	28.603	/	Pass
		5200	/	/	2	28.848	/	Pass
		5240	/	/	2	29.369	/	Pass
802.11n (HT40)	SISO	5190	/	/	2	40.835	/	Pass
		5230	/	/	2	40.526	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	2	28.357	/	Pass
		5200	/	/	2	29.049	/	Pass
		5240	/	/	2	20.534	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	2	40.750	/	Pass
		5230	/	/	2	40.690	/	Pass
802.11ac (VHT80)	SISO	5210	/	/	2	80.613	/	Pass

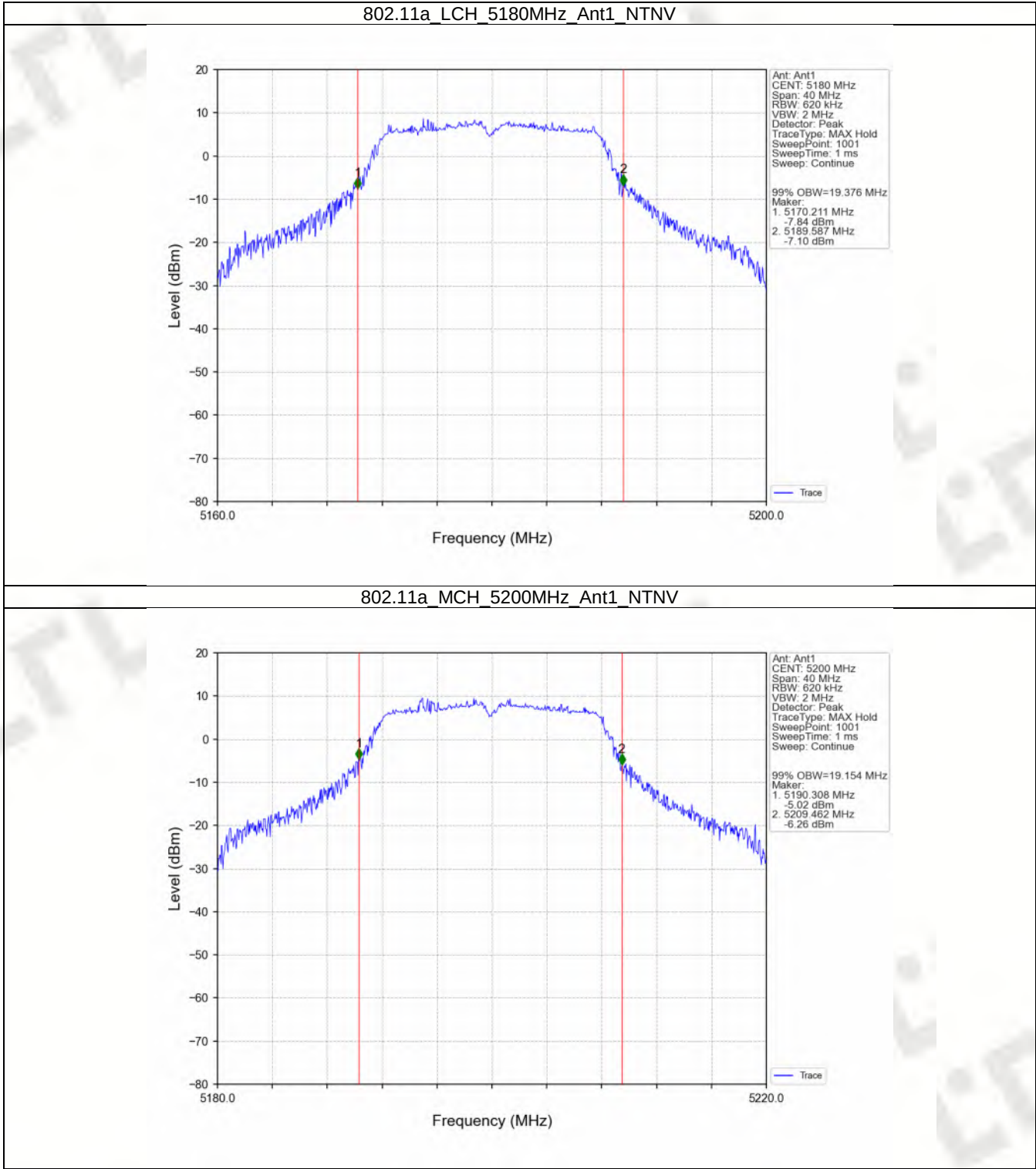
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802.11ax (HEW20)	SISO	5180	SU	/	2	27.091	/	Pass
		5200	SU	/	2	22.643	/	Pass
		5240	SU	/	2	20.338	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	2	39.784	/	Pass
		5230	SU	/	2	40.013	/	Pass
802.11ax (HEW80)	SISO	5210	SU	/	2	81.670	/	Pass

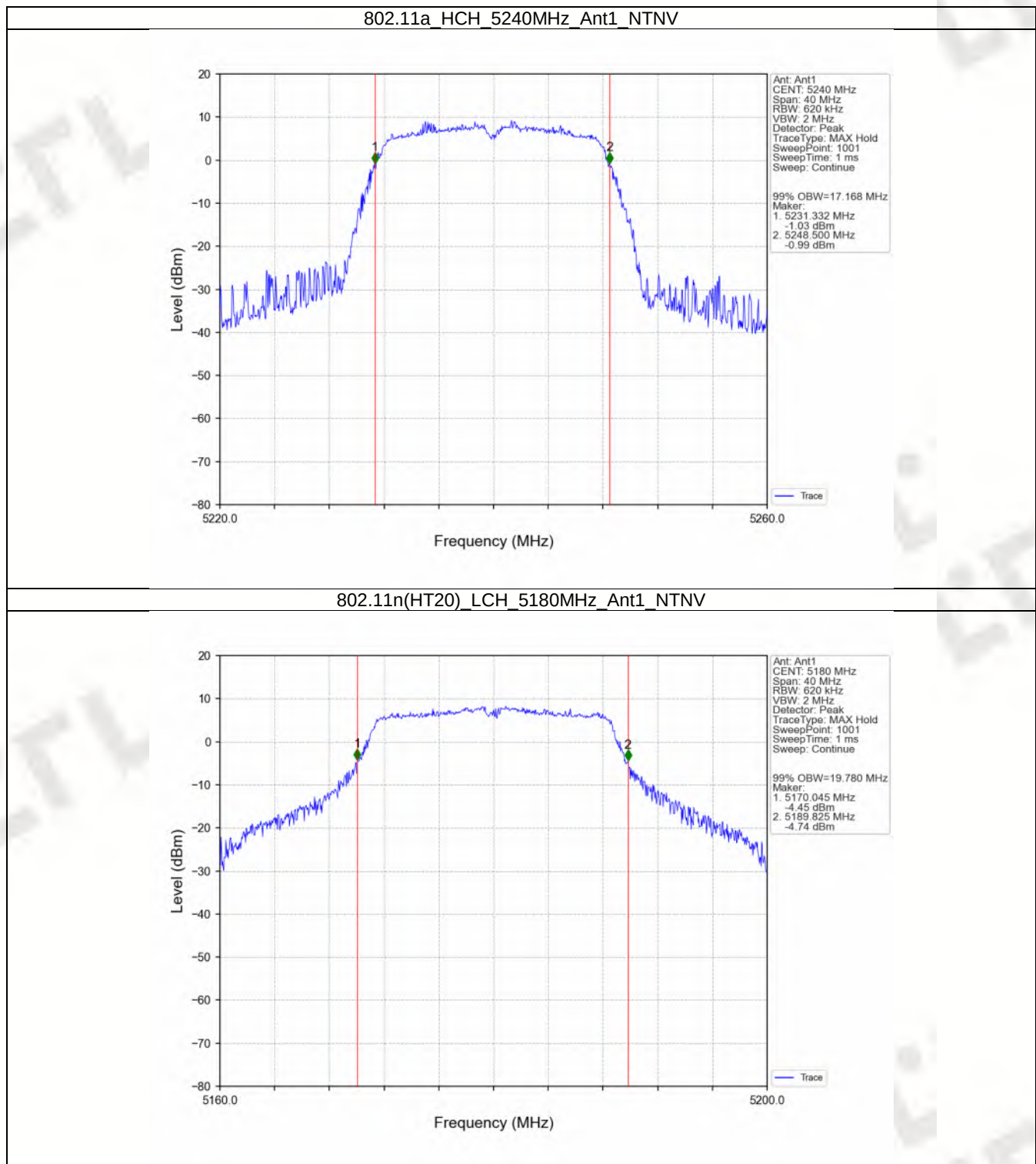
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2.2 Test Graph

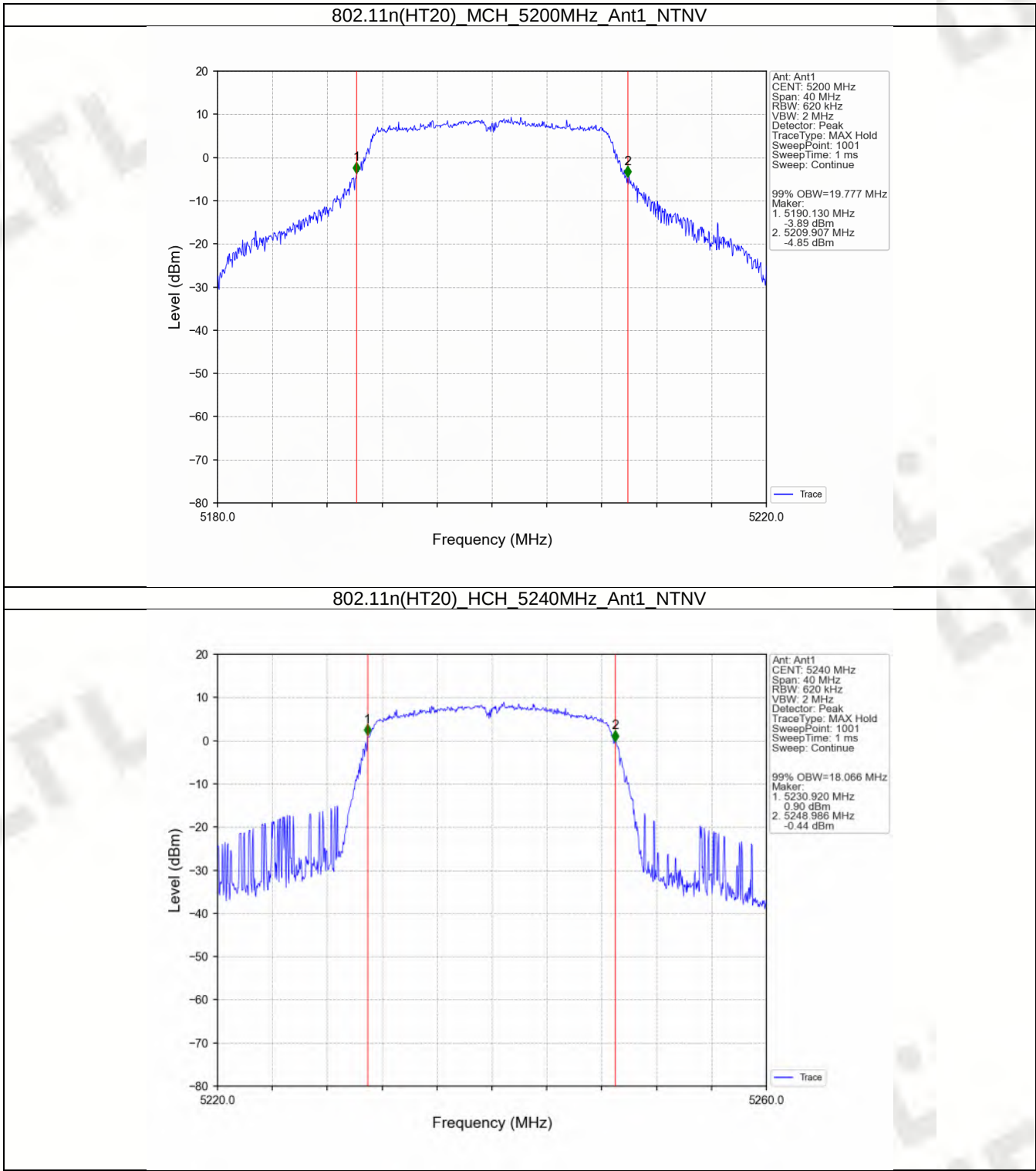
2.2.1 OBW



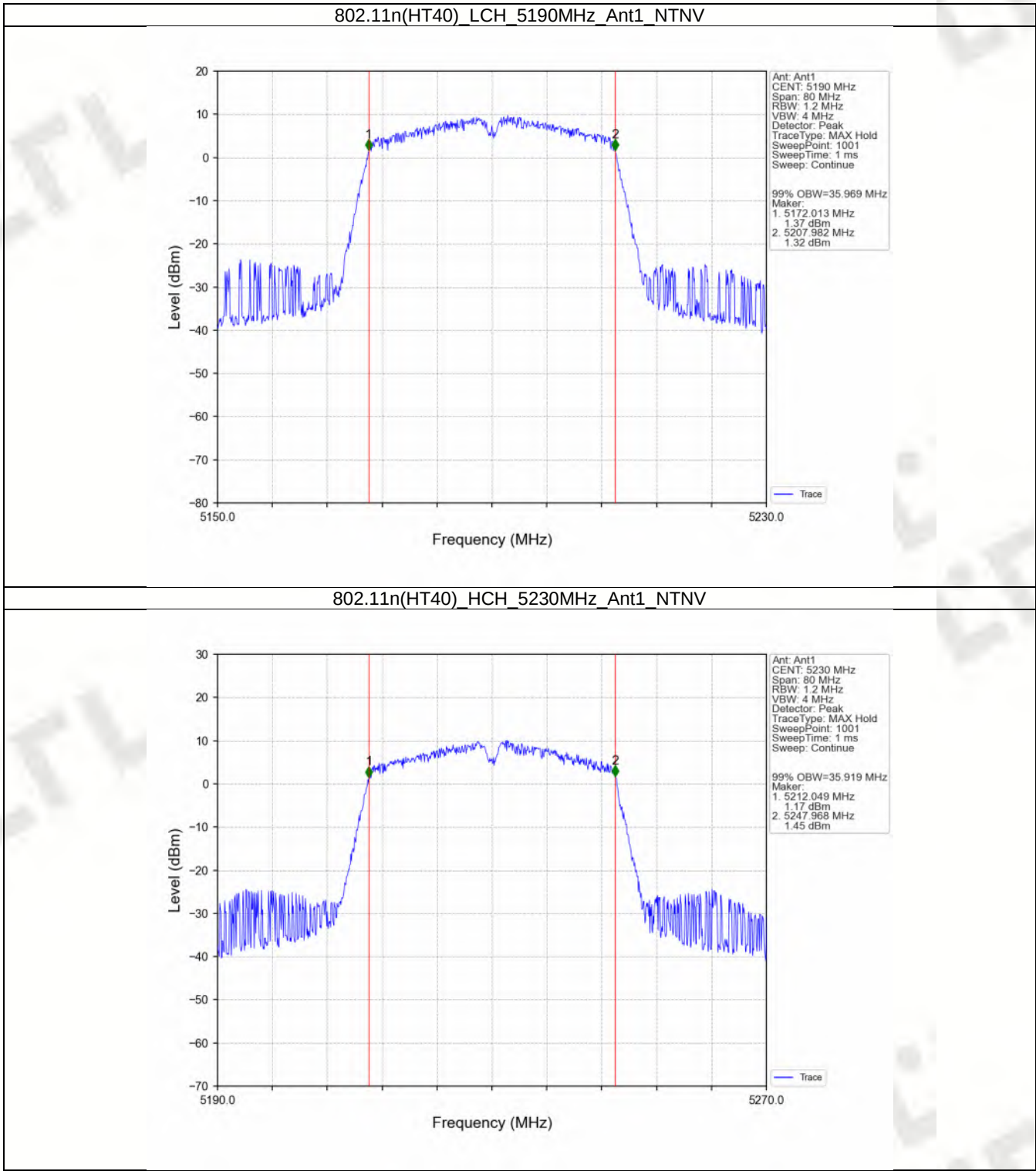
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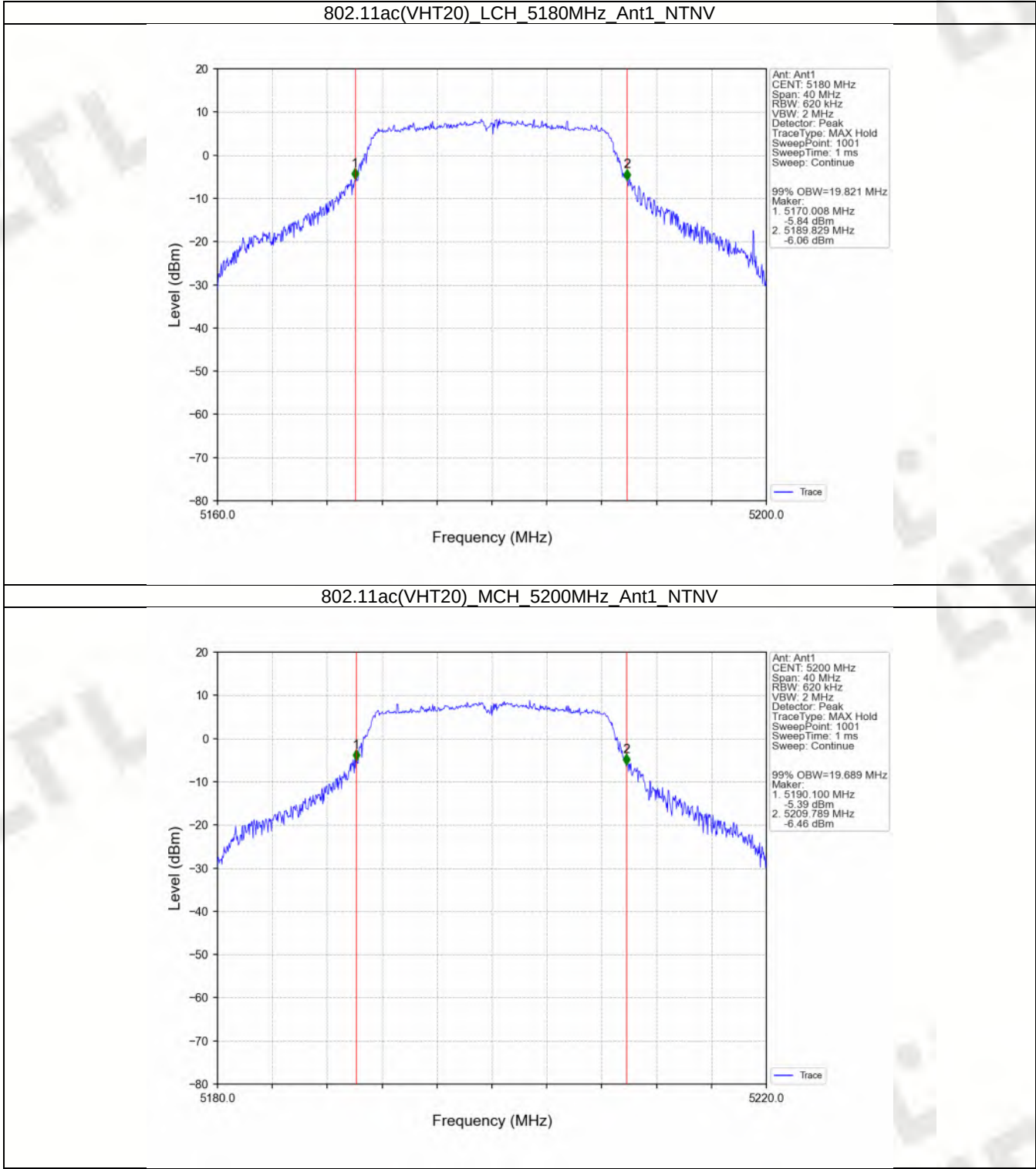
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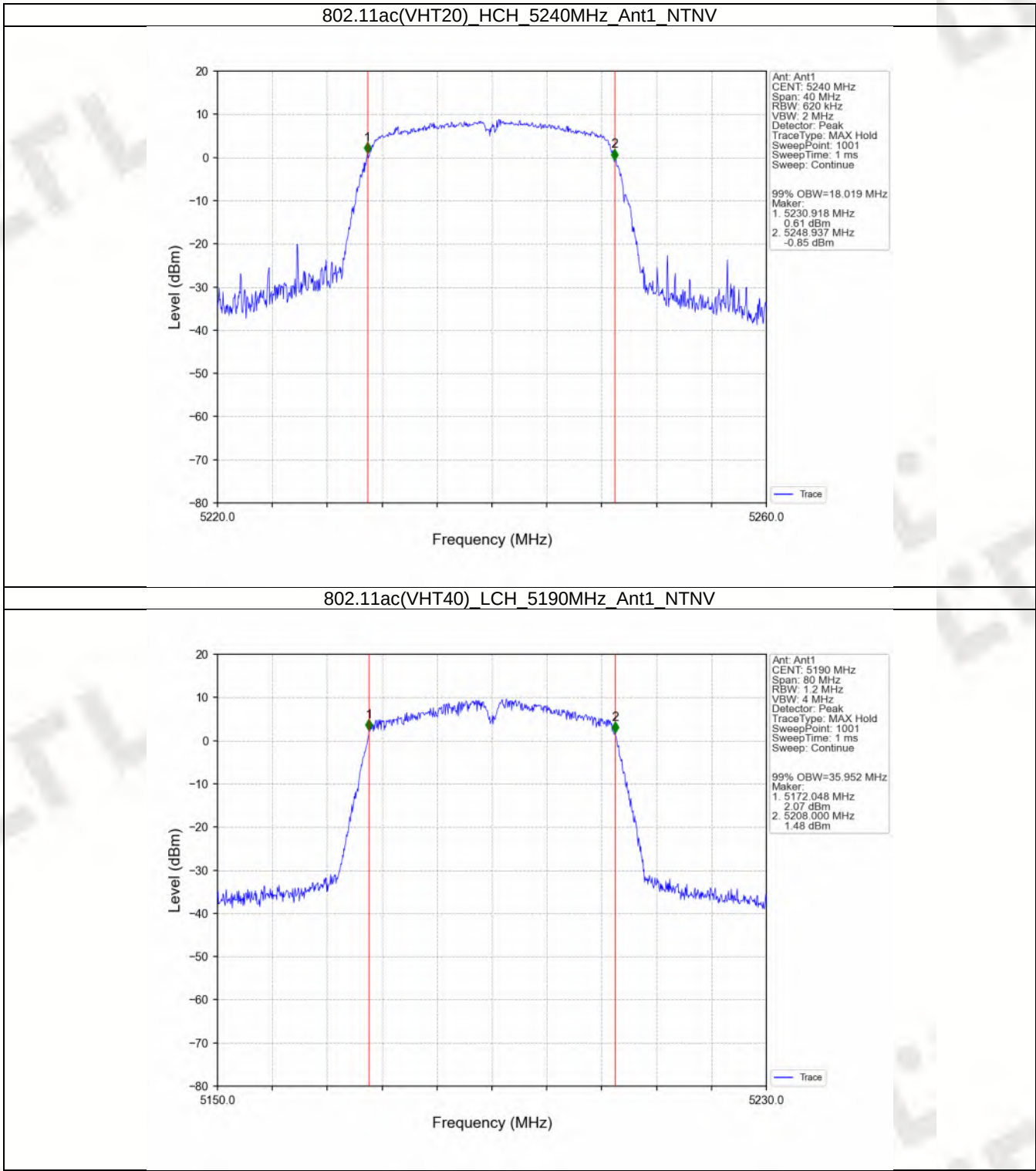
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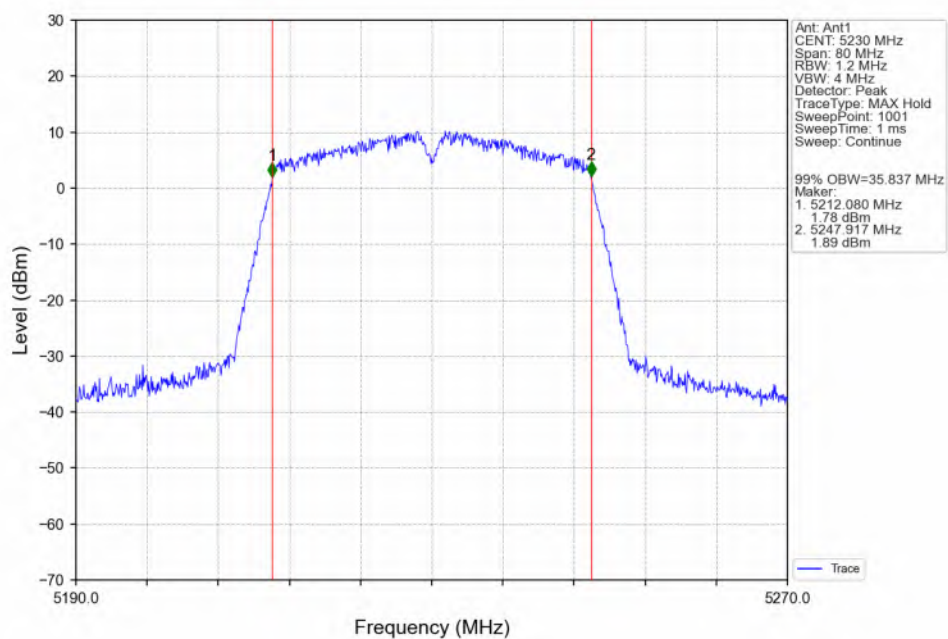


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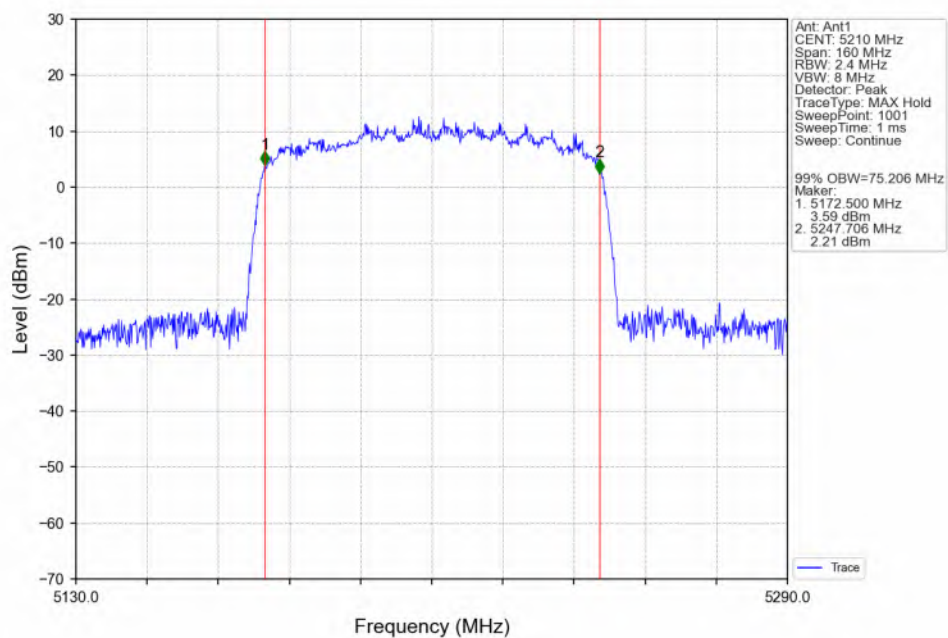


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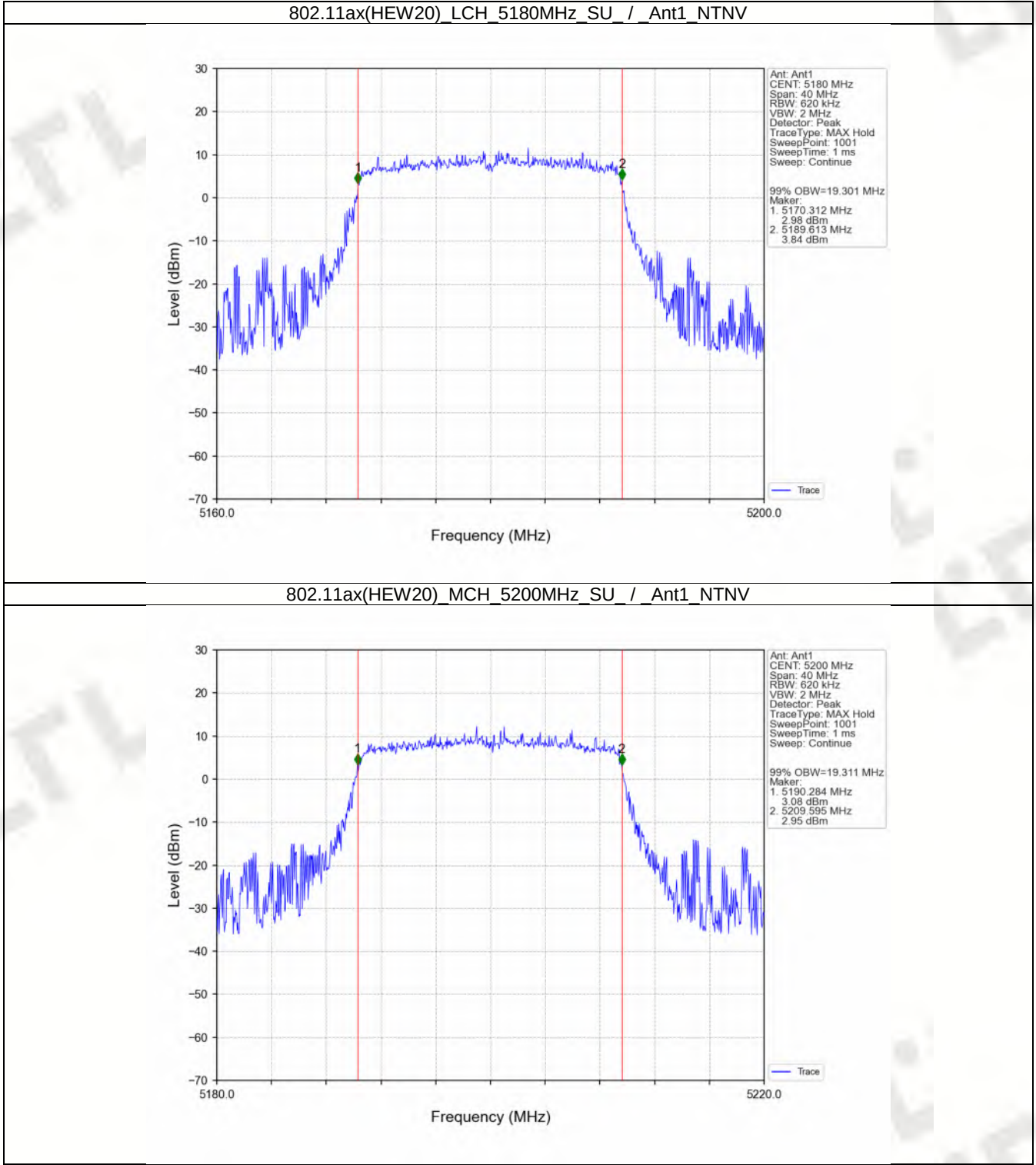
802.11ac(VHT40) HCH 5230MHz Ant1_NTNV



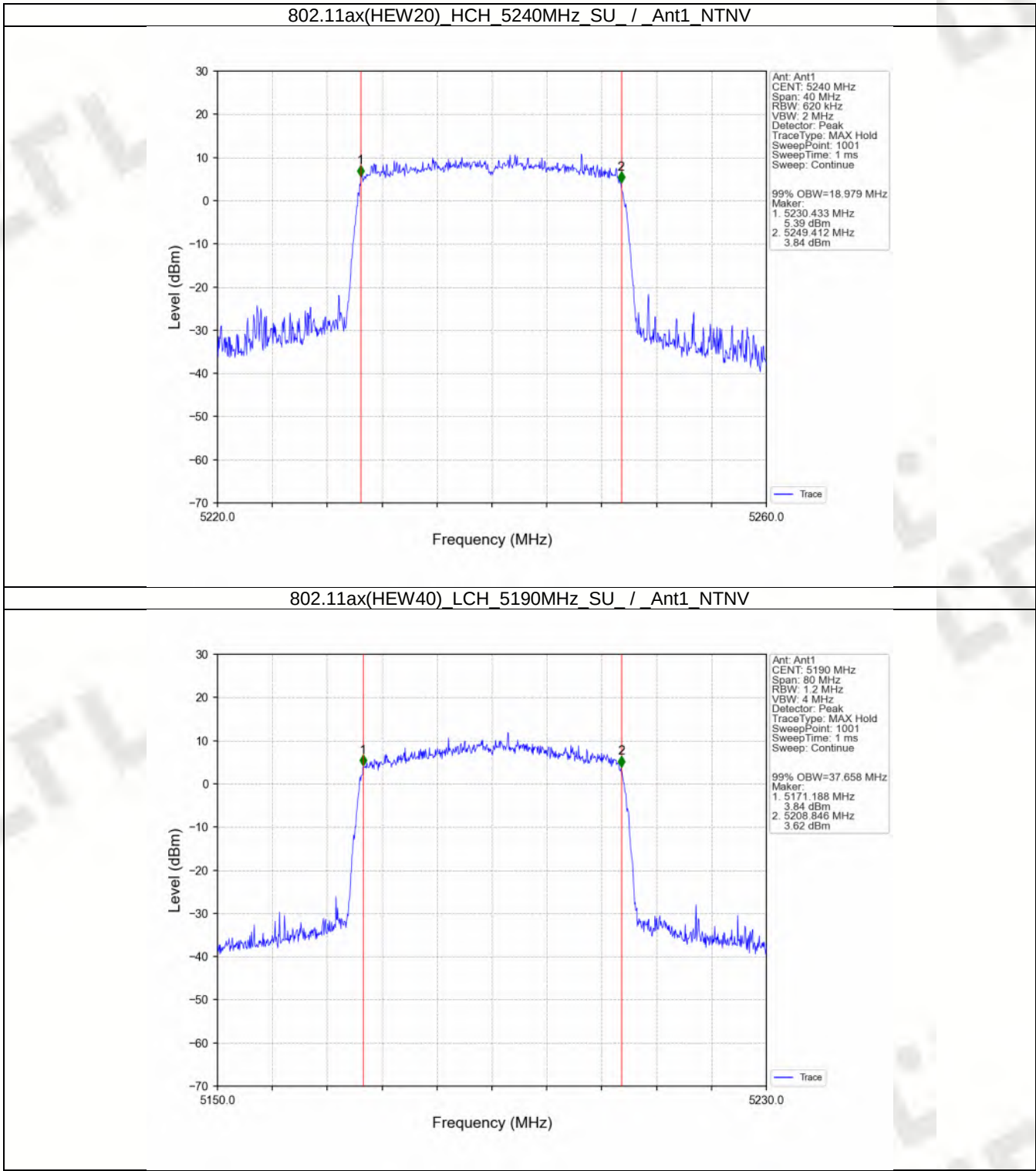
802.11ac(VHT80) MCH 5210MHz Ant1_NTNV



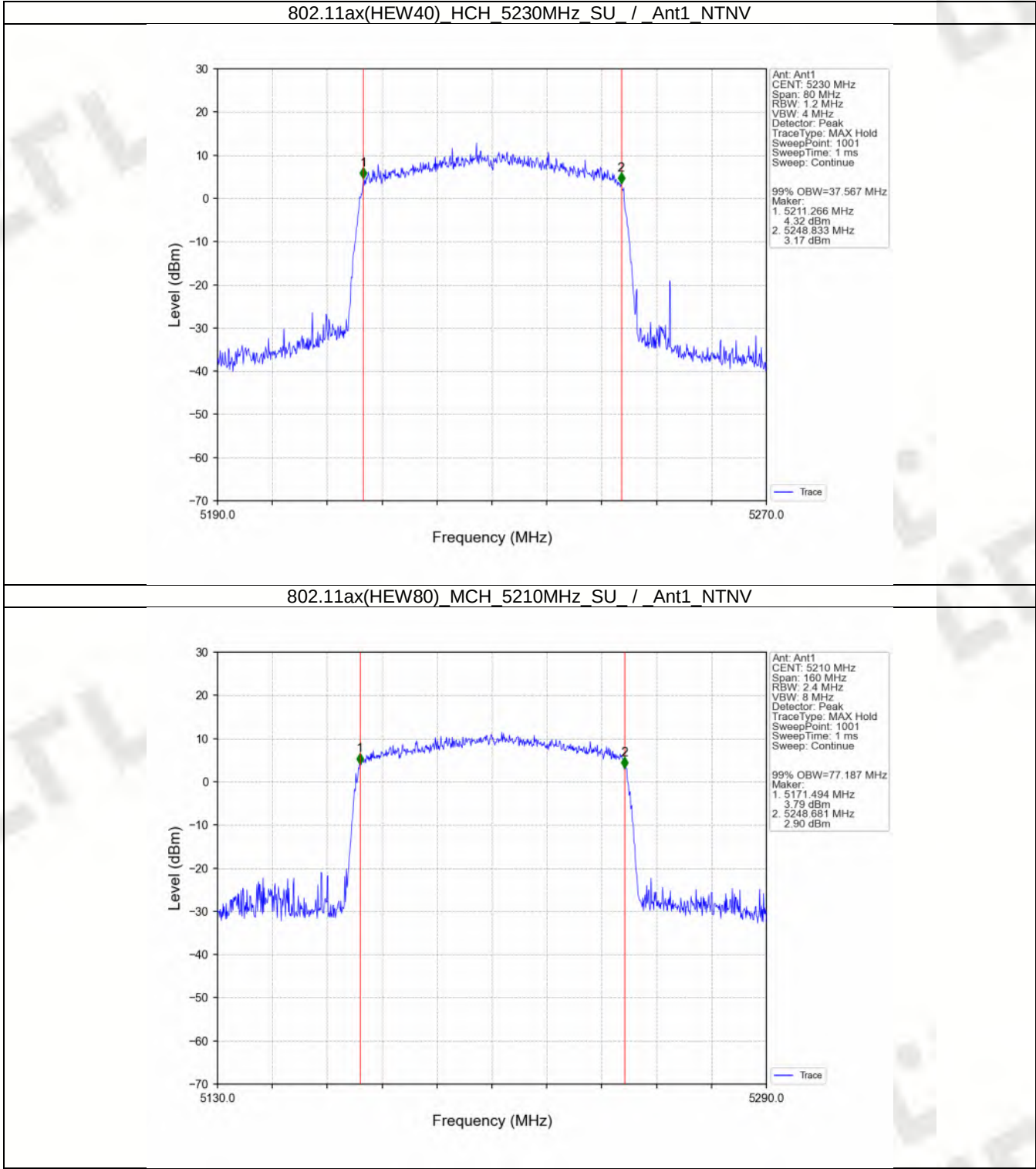
FCC ID: 2BLP-G7A1



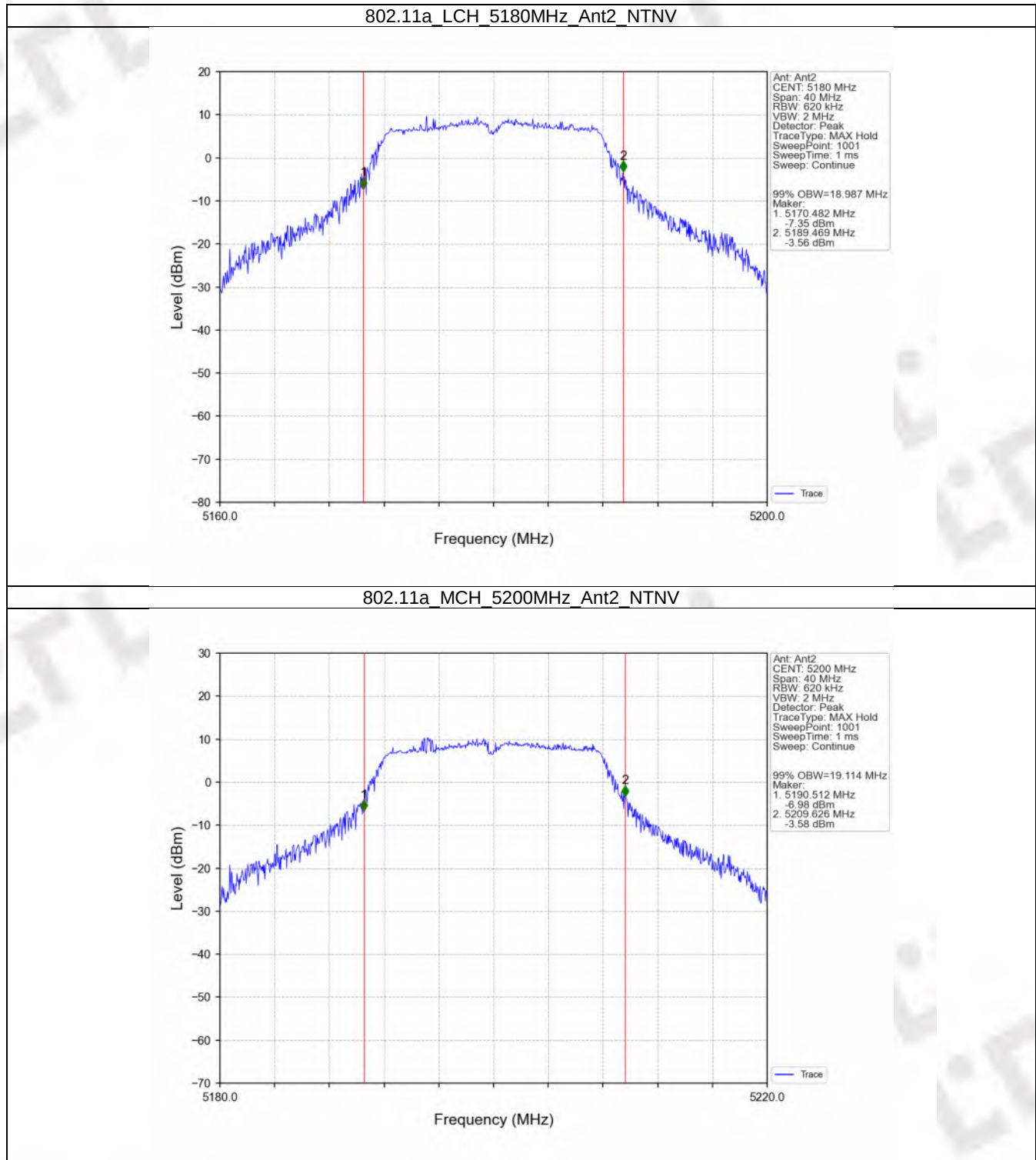
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FCC ID: 2BLP-G7A1

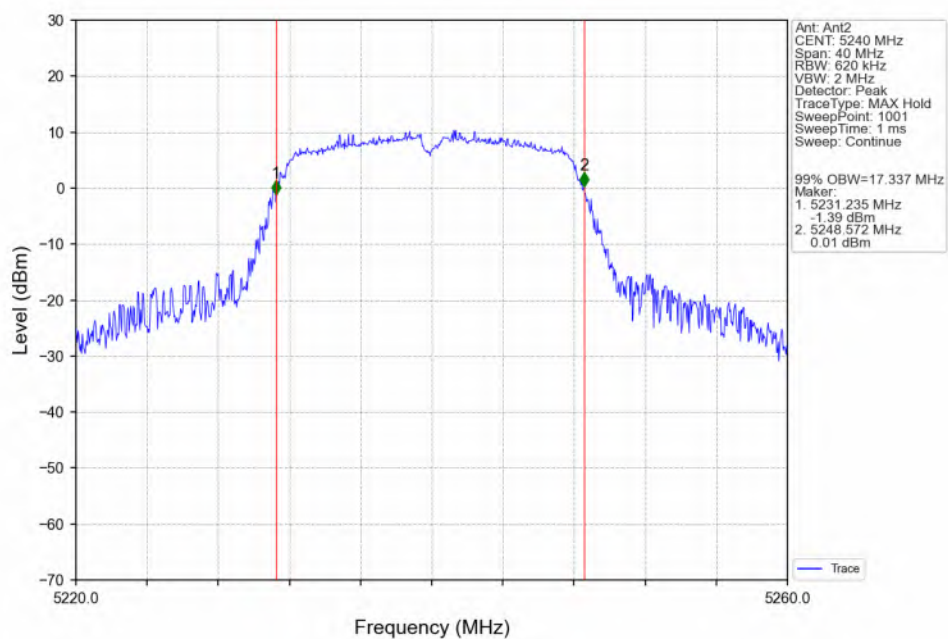


FCC ID: 2BLP-G7A1

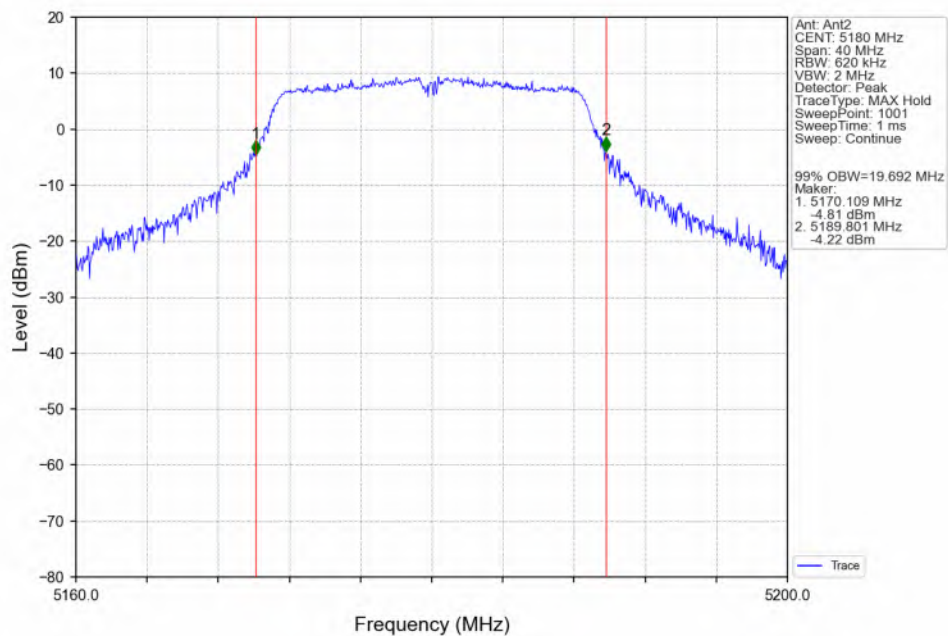


FCC ID: 2BLP-G7A1

802.11a_HCH_5240MHz_Ant2_NTNV

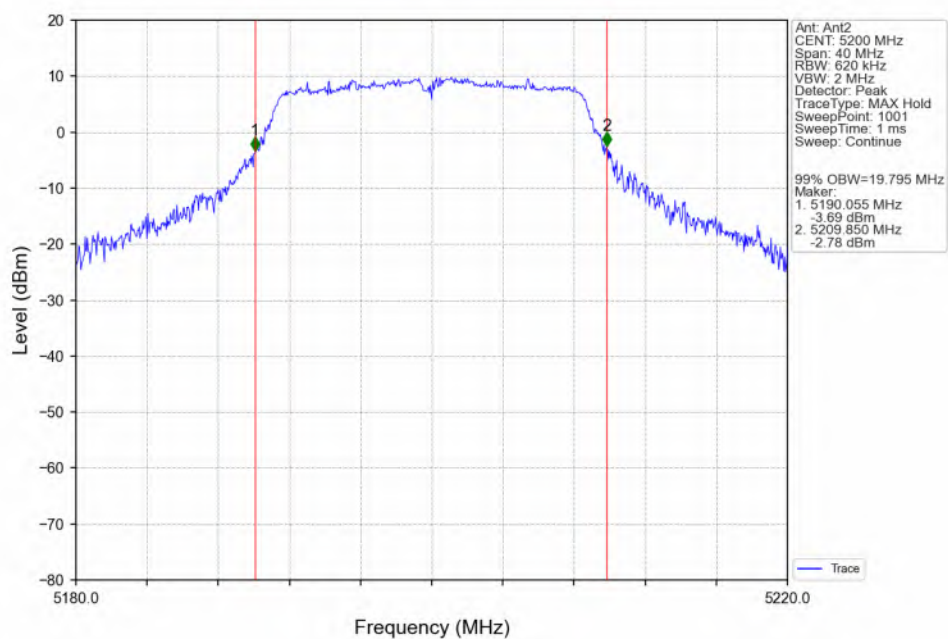


802.11n(HT20)_LCH_5180MHz_Ant2_NTNV

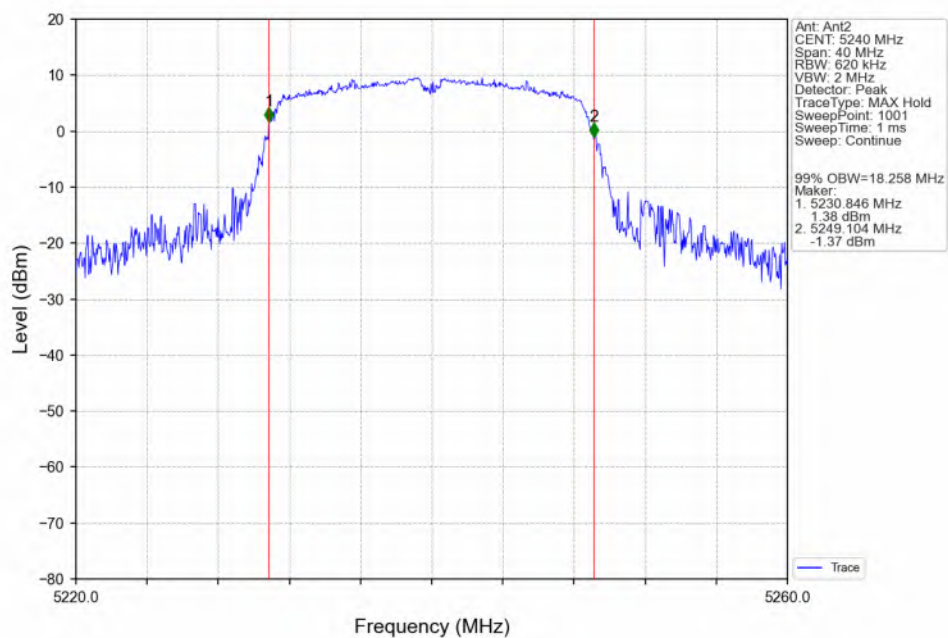


FCC ID: 2BLP-G7A1

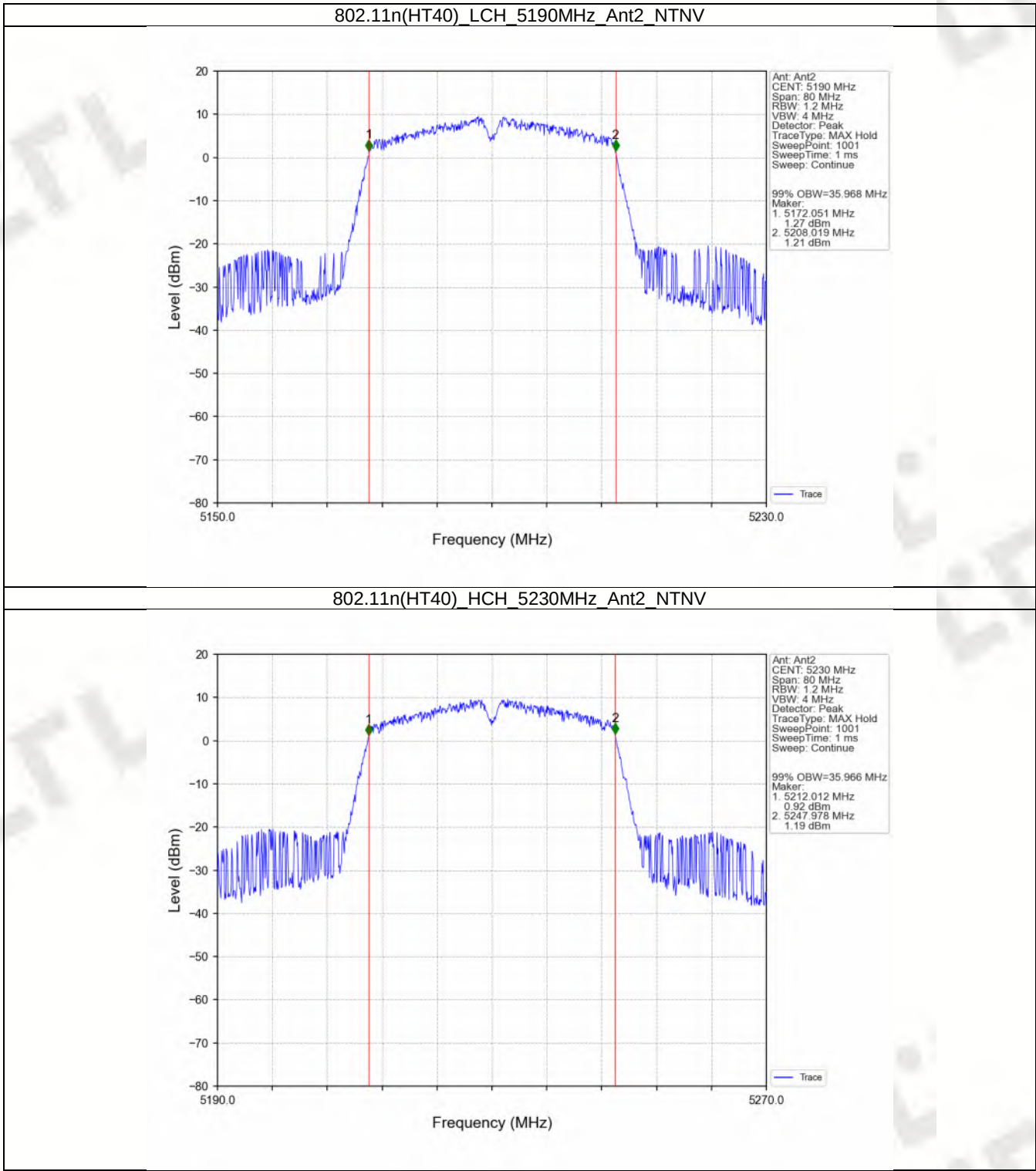
802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



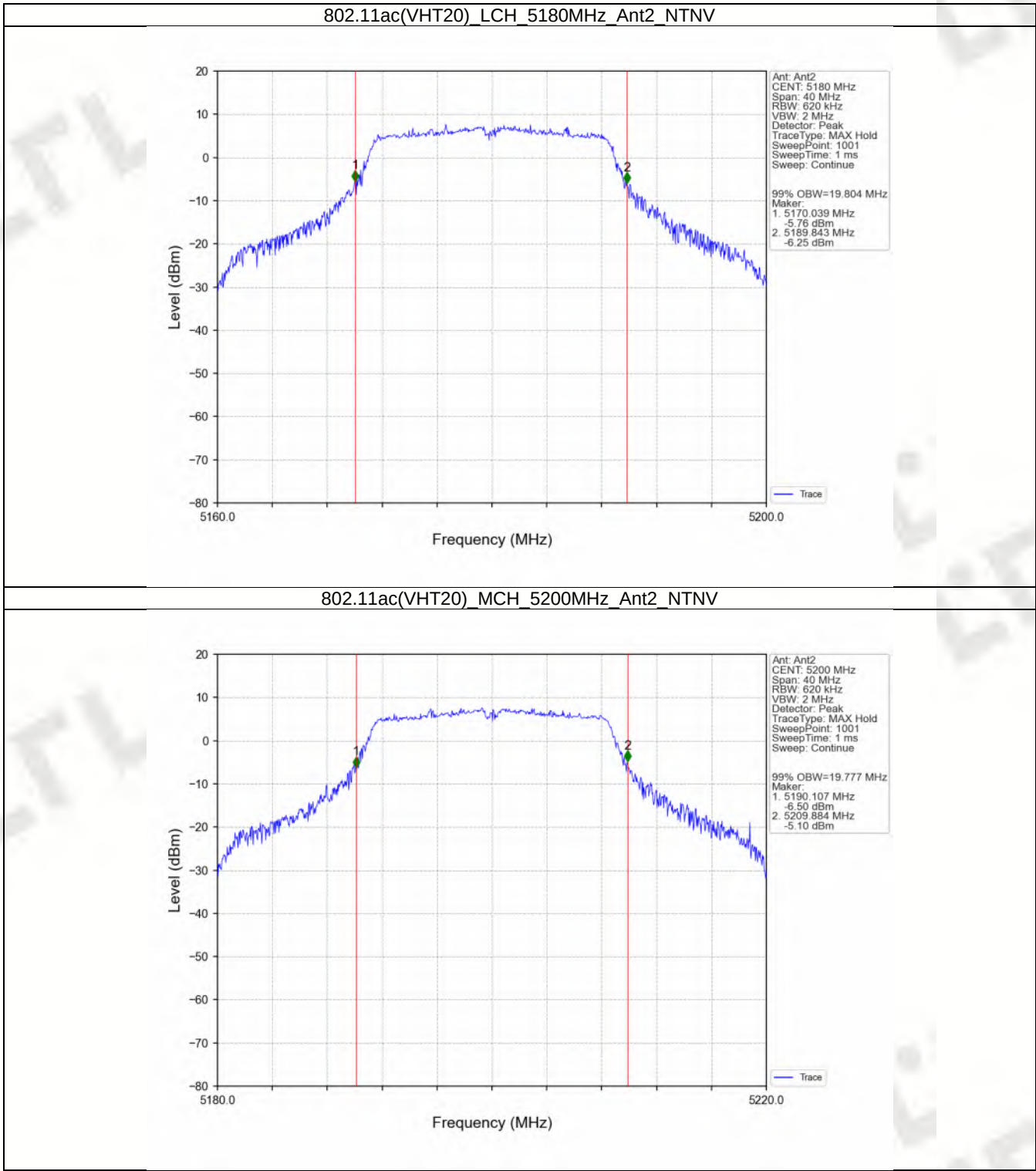
802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



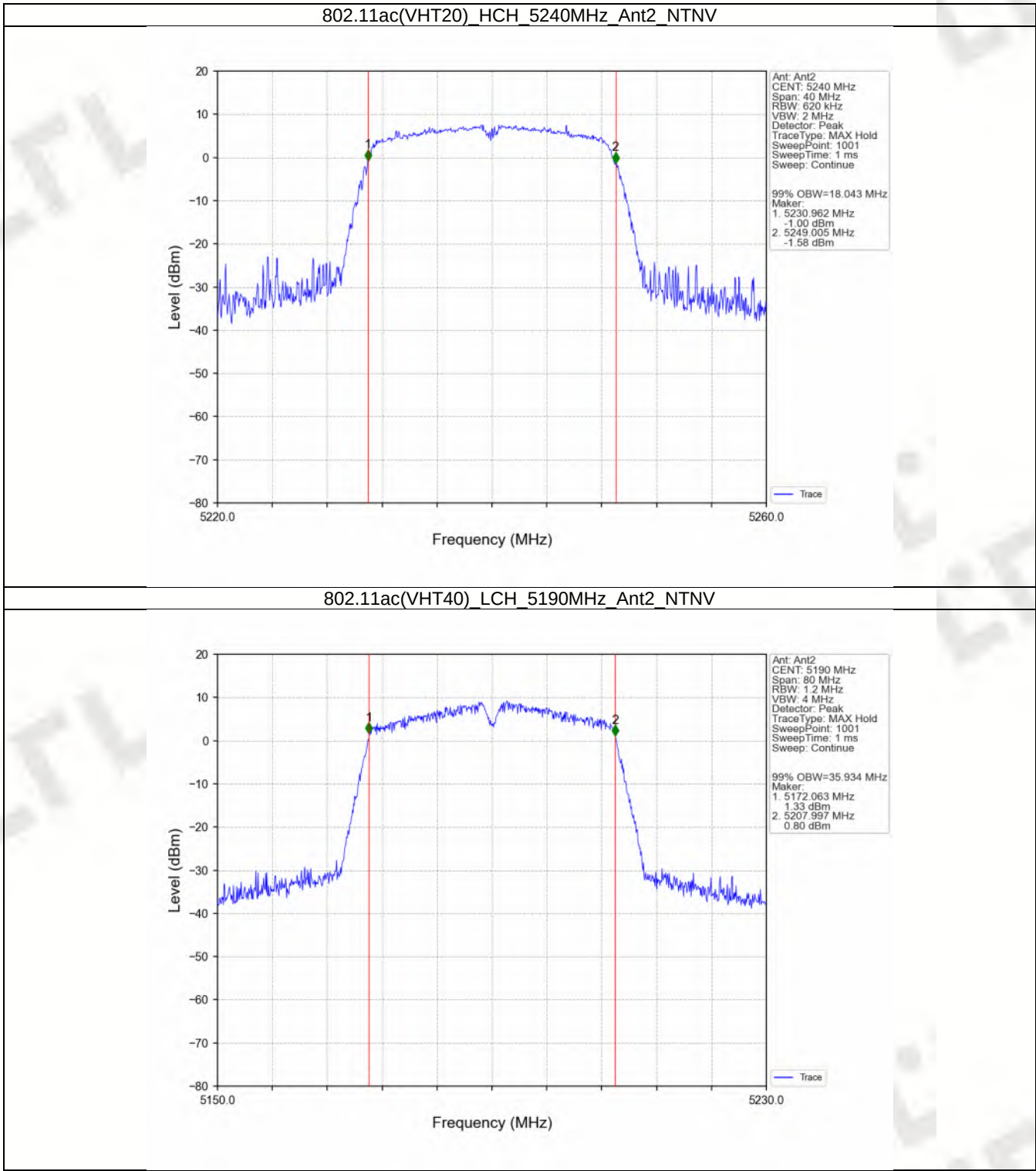
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FCC ID: 2BLP-G7A1

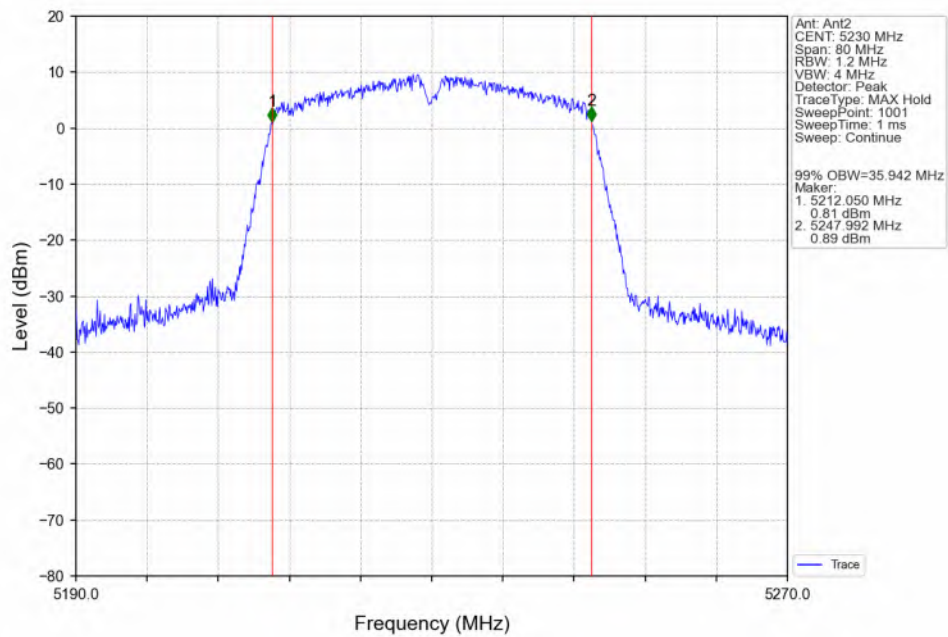


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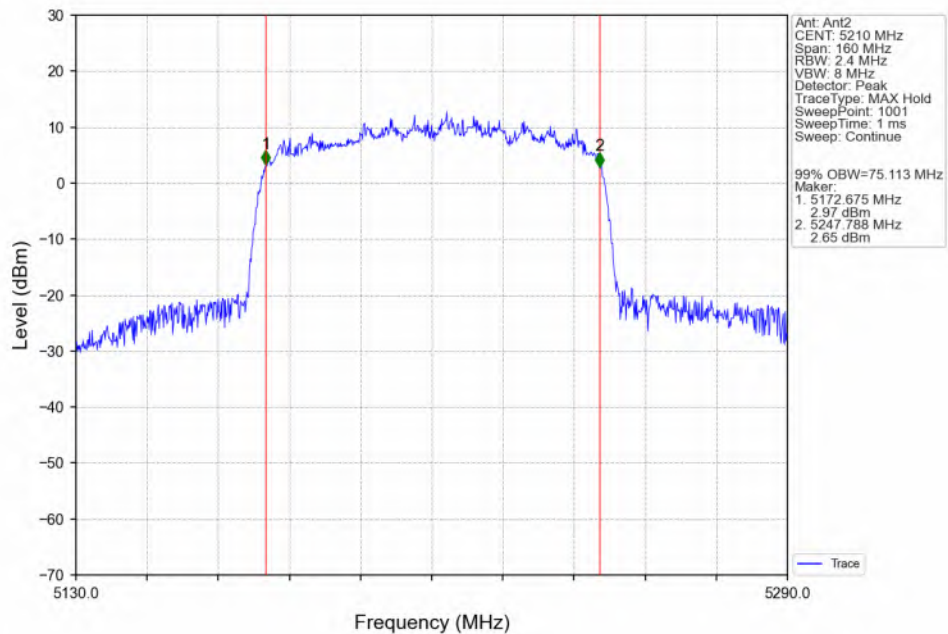


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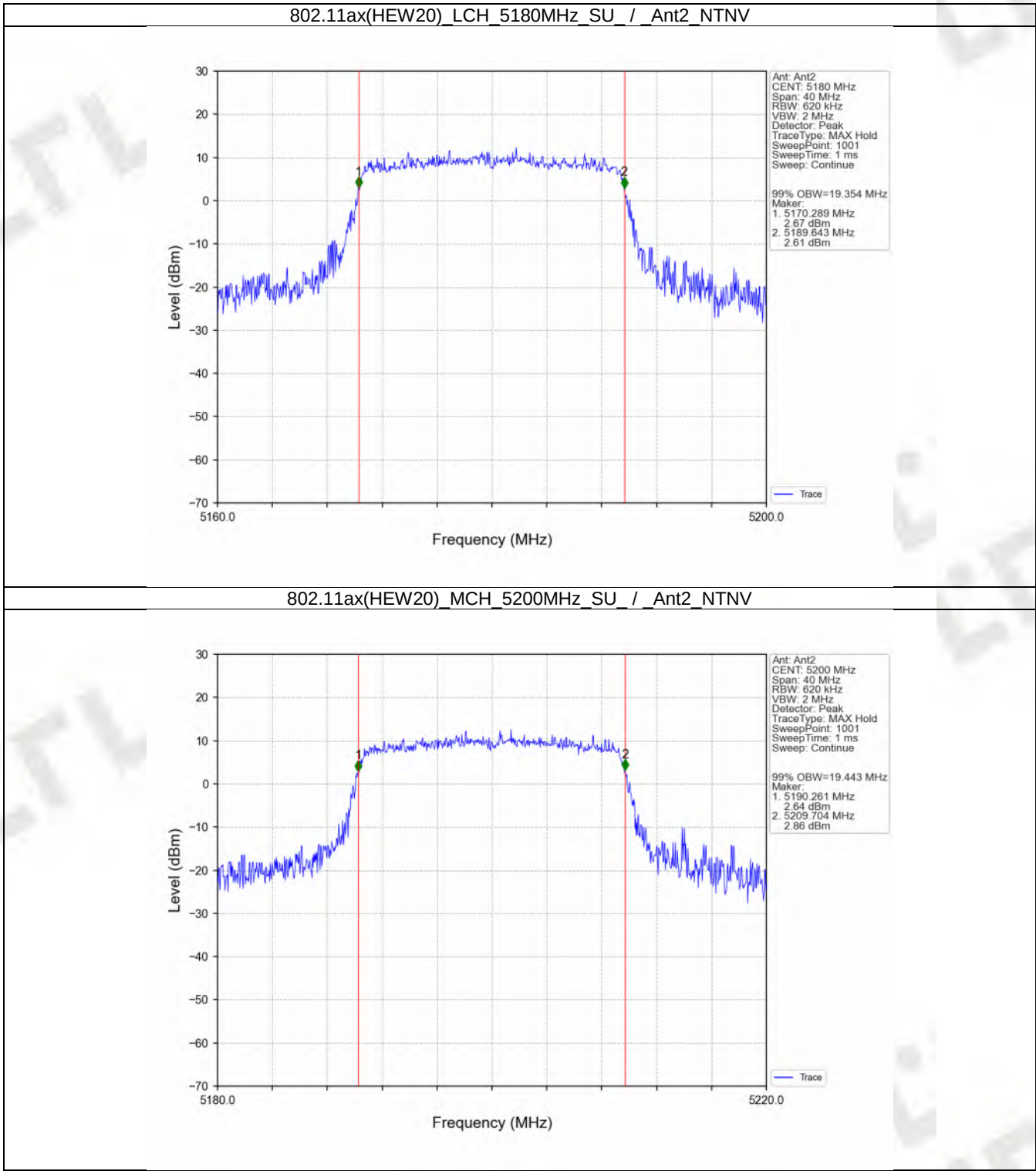
802.11ac(VHT40) HCH 5230MHz_Ant2_NTNV



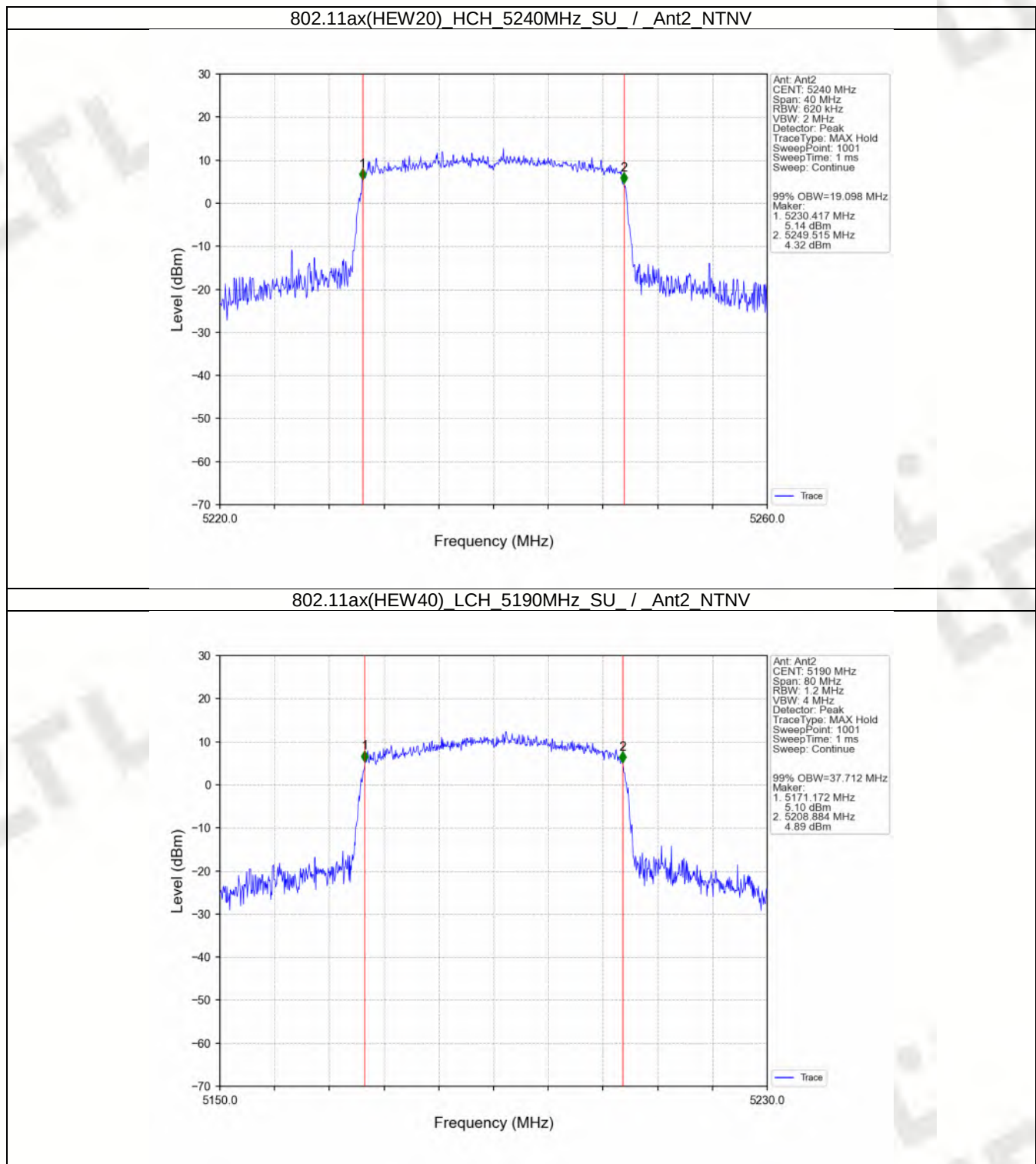
802.11ac(VHT80) MCH 5210MHz_Ant2_NTNV



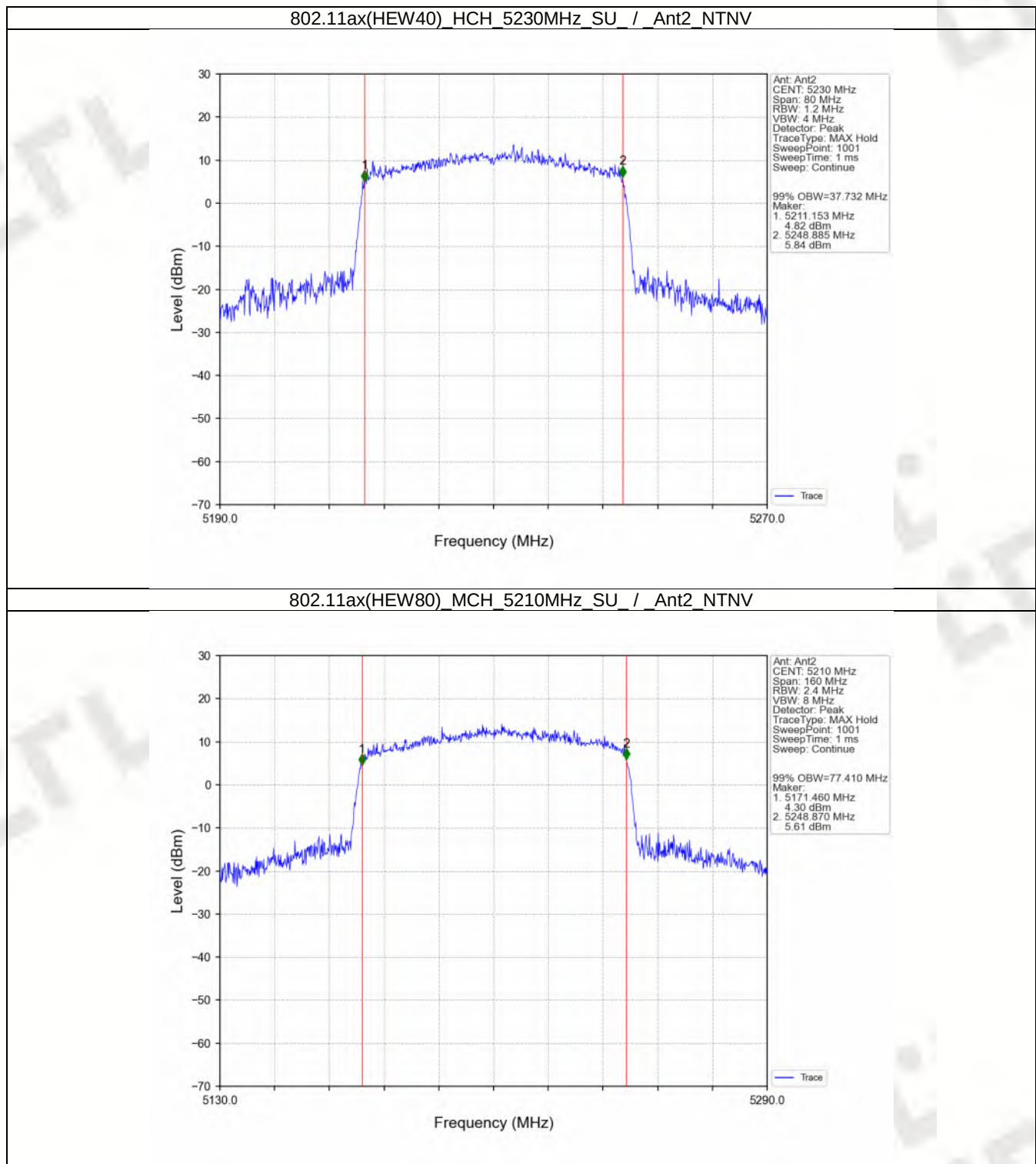
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FCC ID: 2BLP-G7A1

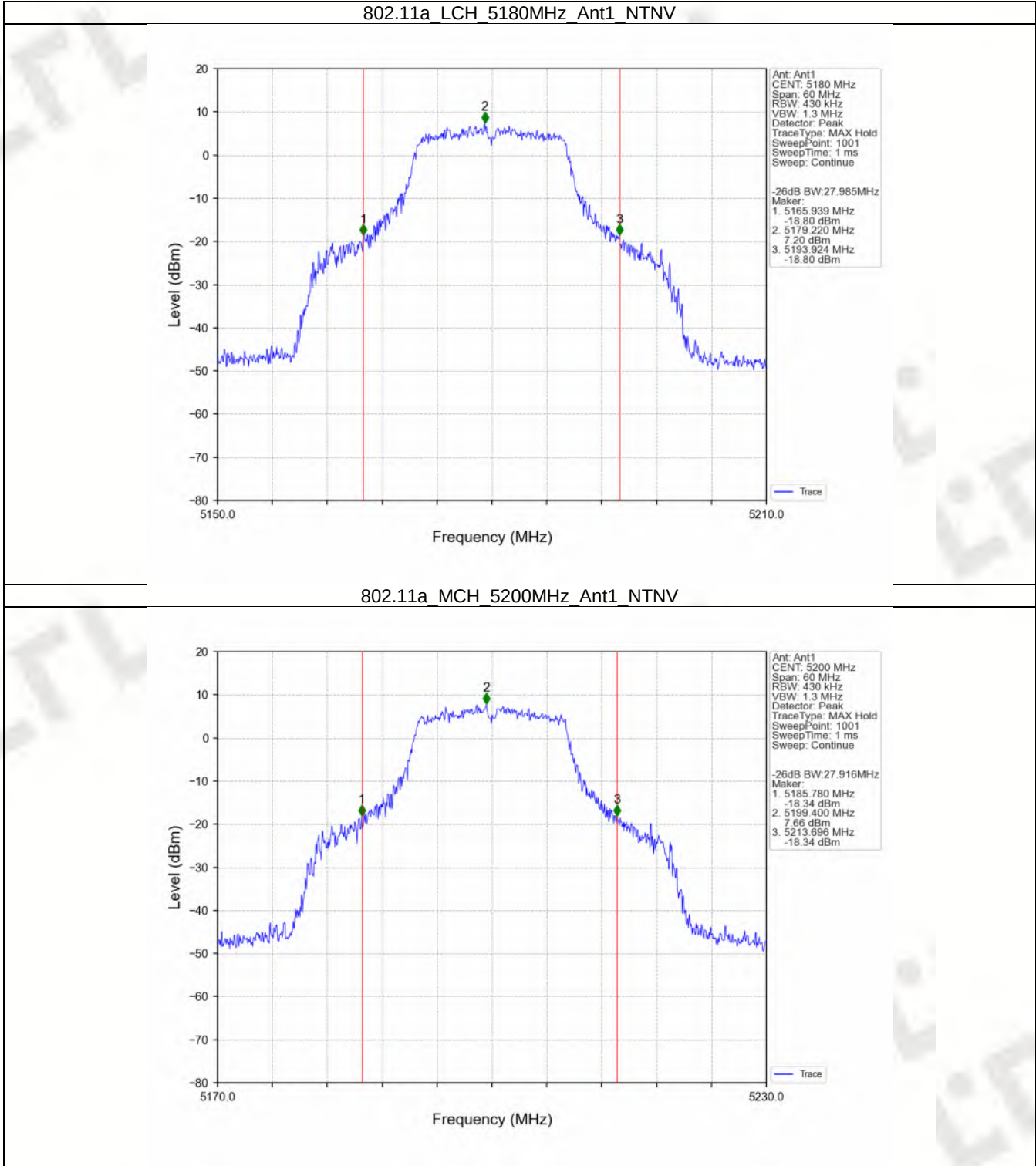


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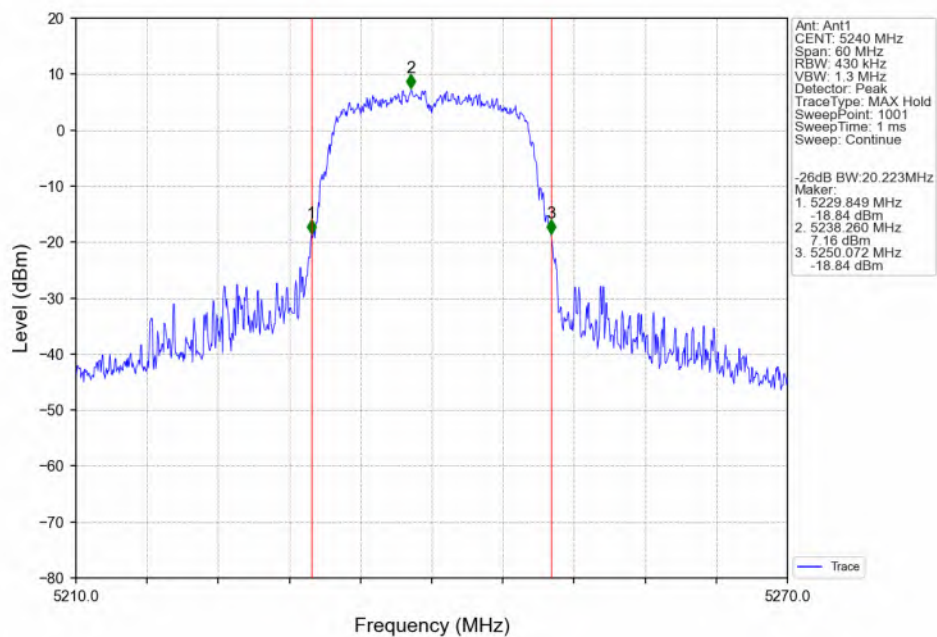
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2.2.2 26dB BW

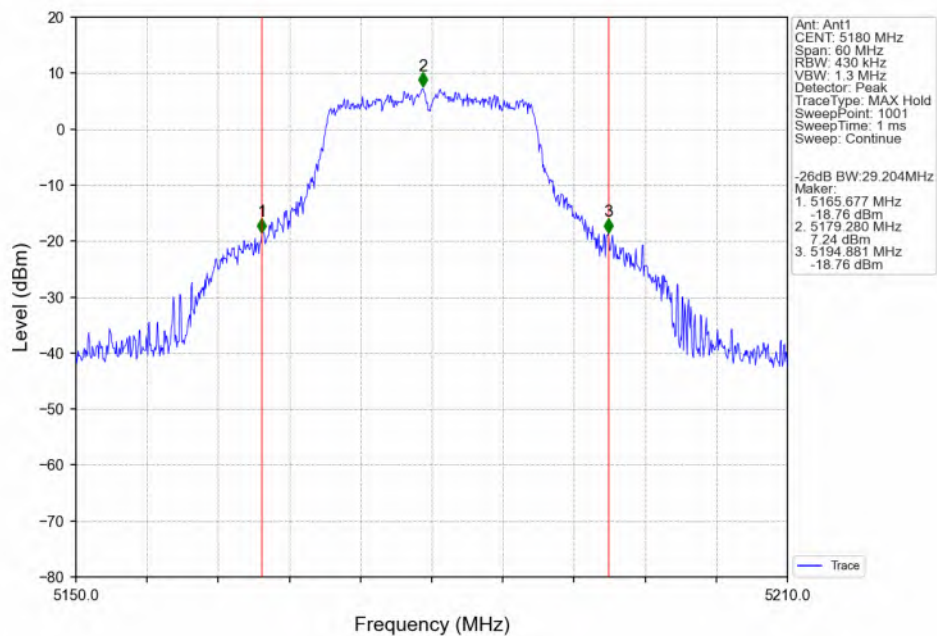


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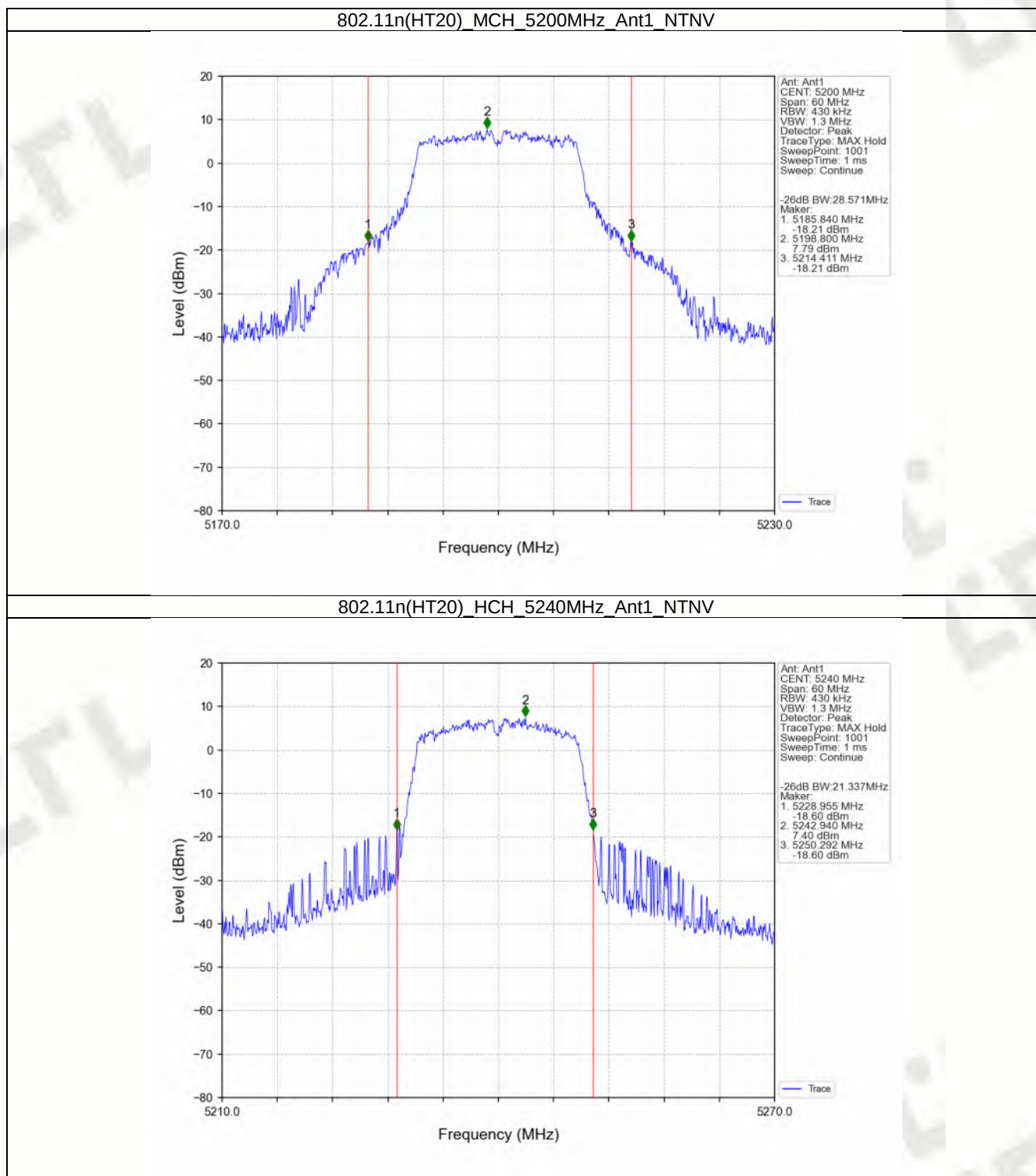
802.11a_HCH_5240MHz_Ant1_NTNV



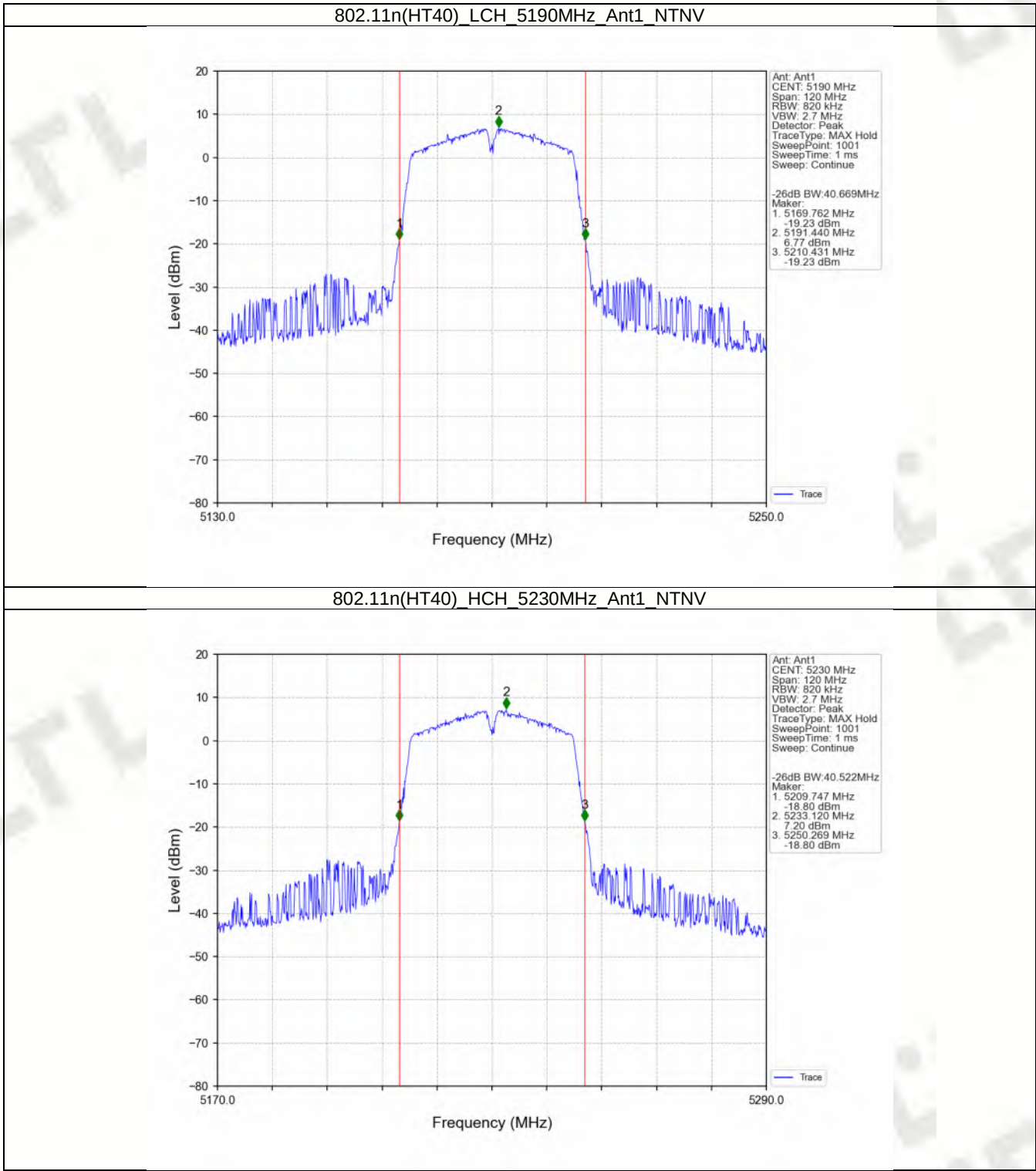
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



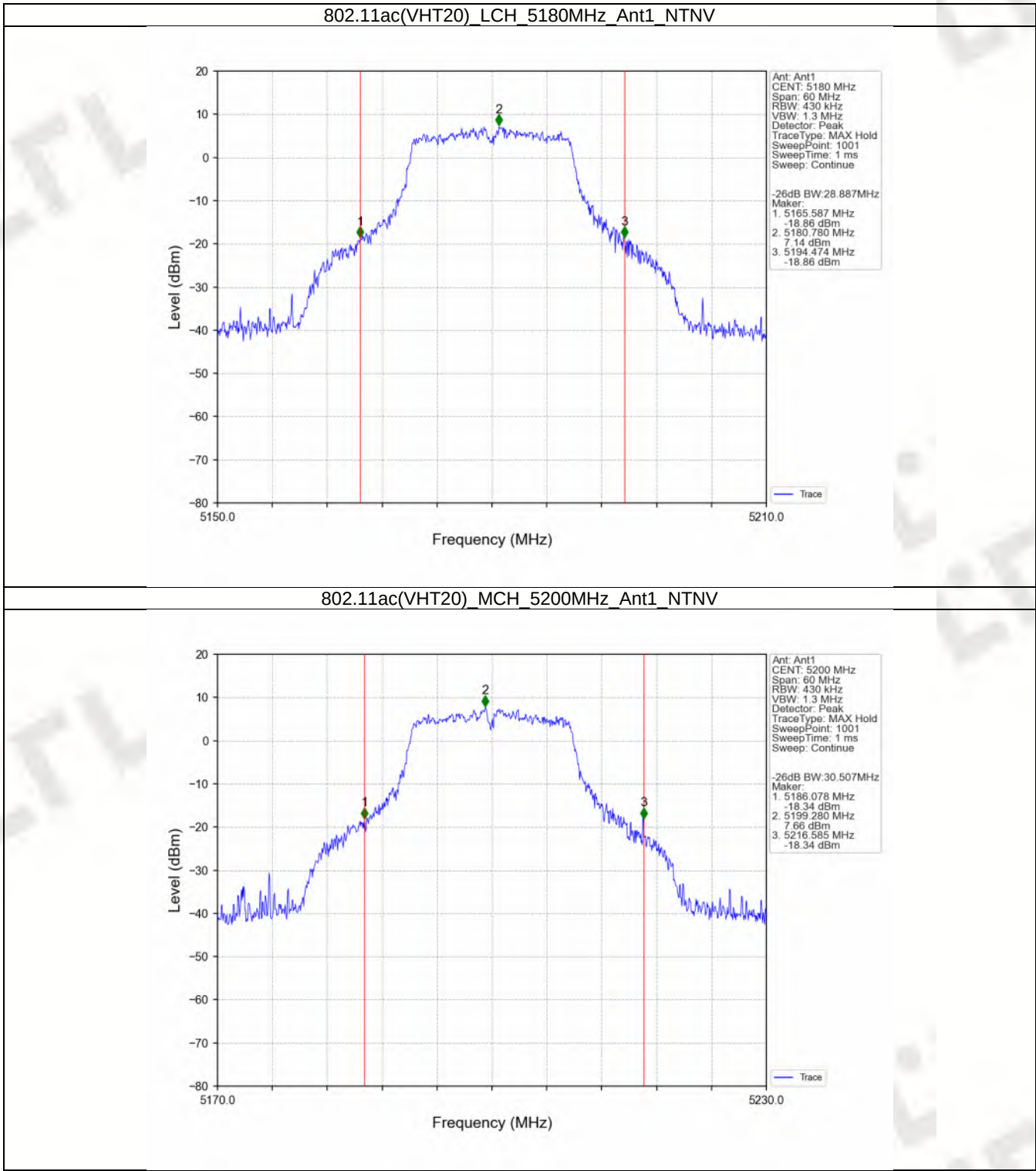
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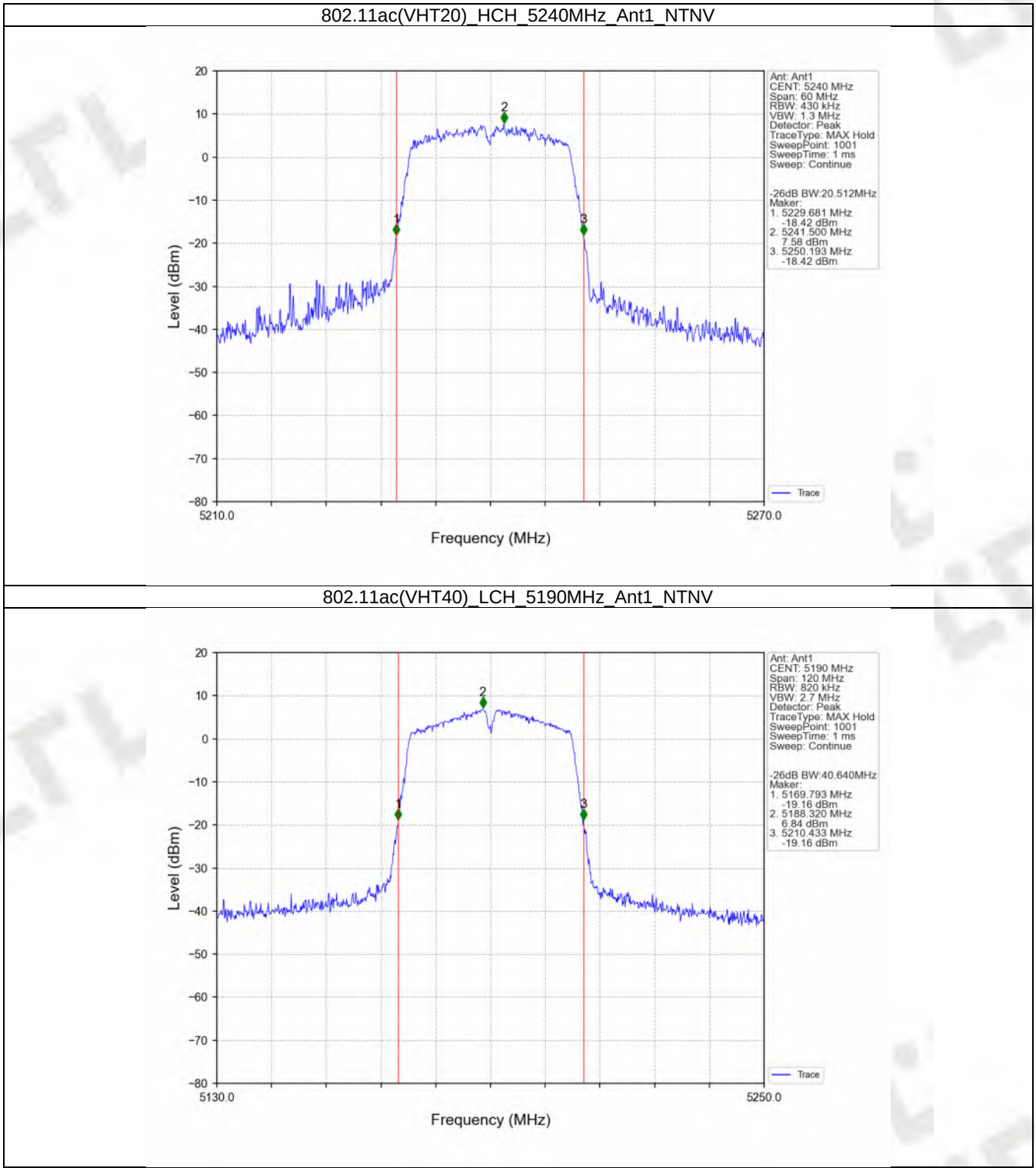
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FCC ID: 2BLP-G7A1

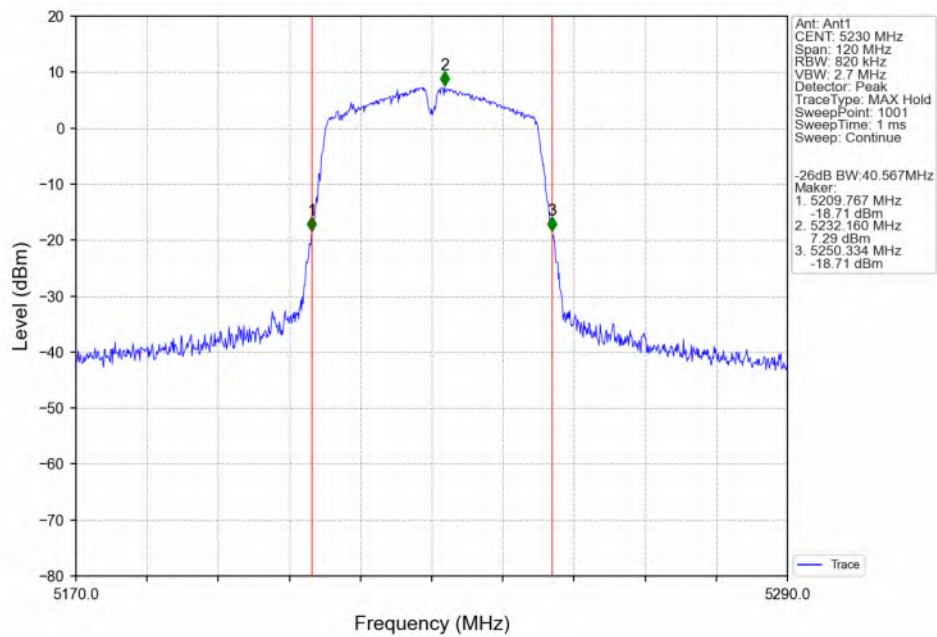


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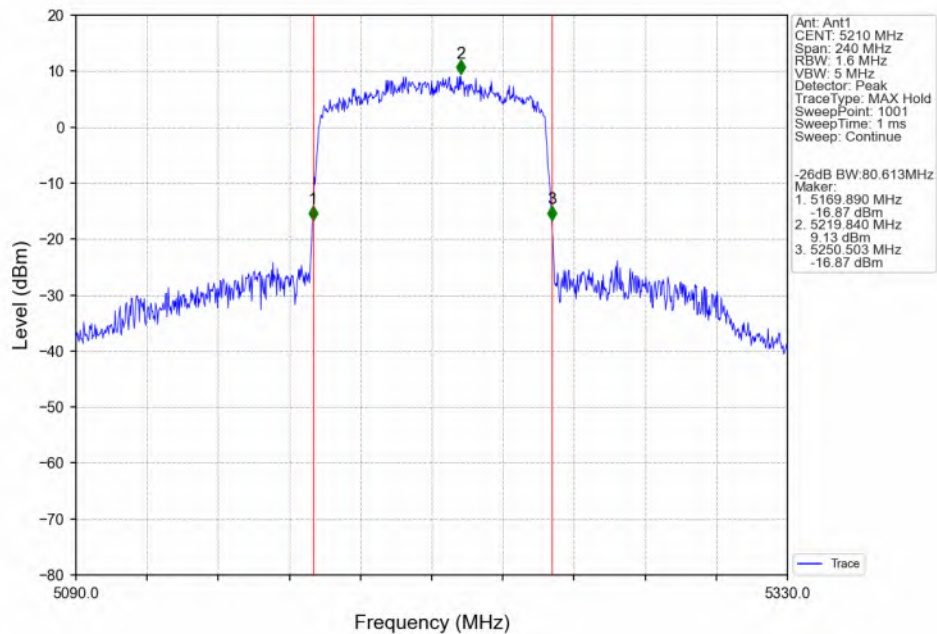


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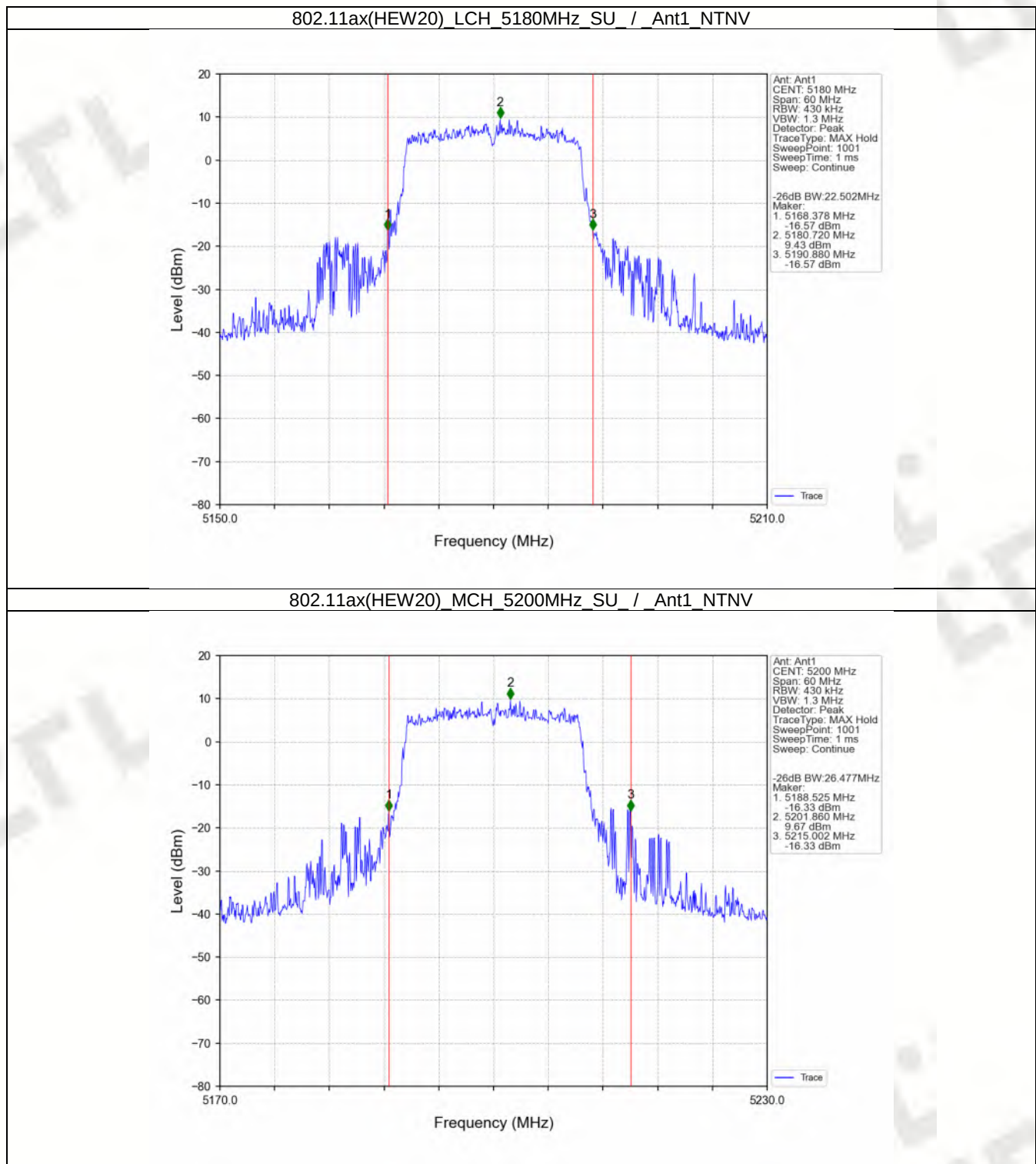
802.11ac(VHT40) HCH 5230MHz_Ant1_NTNV



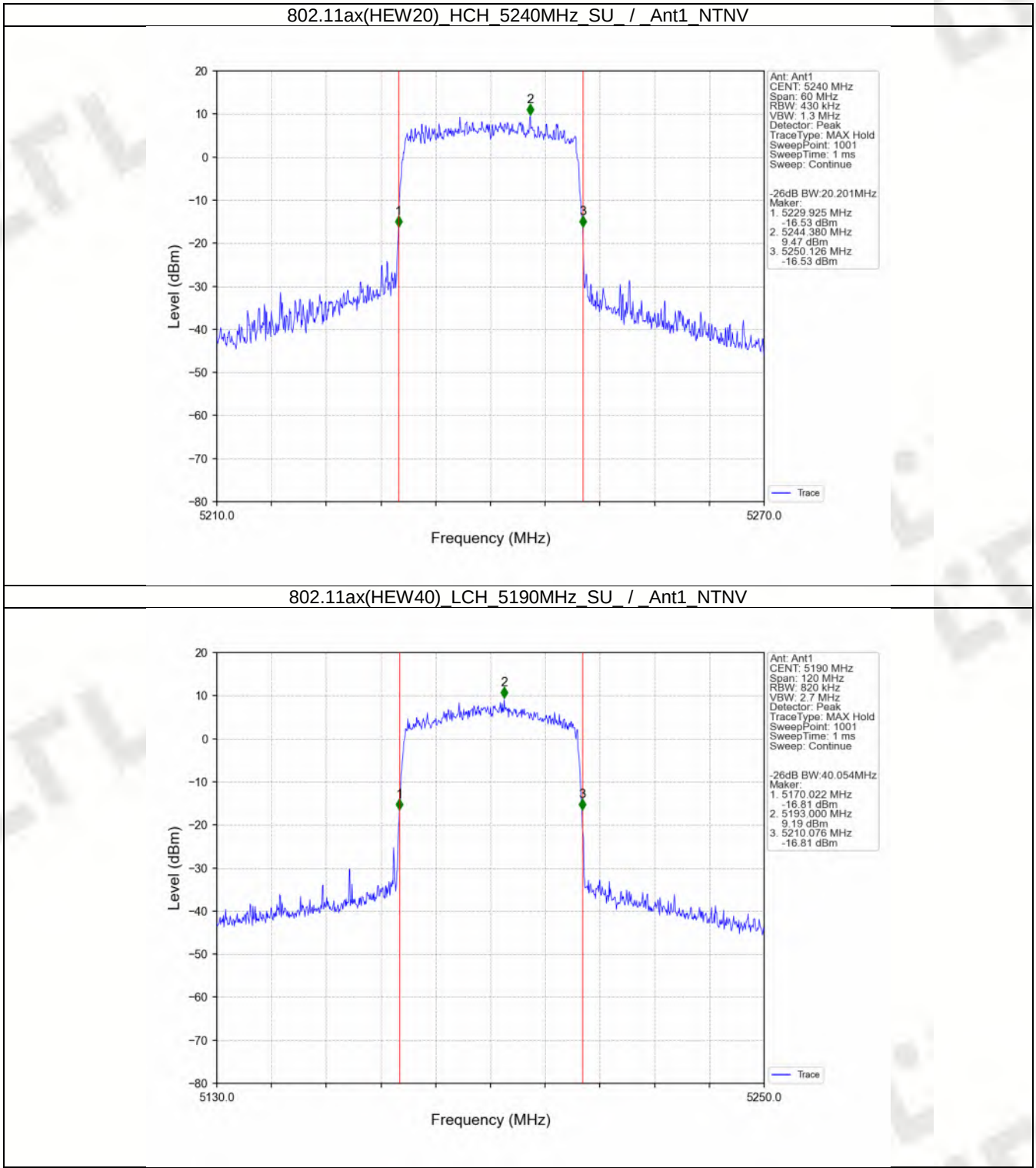
802.11ac(VHT80) MCH 5210MHz_Ant1_NTNV



FCC ID: 2BLP-G7A1

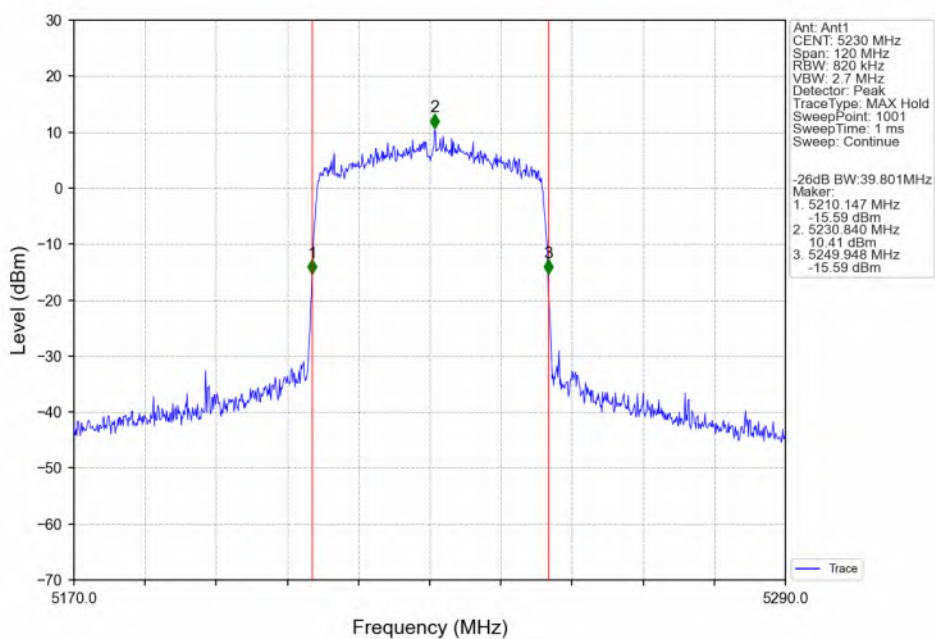


FCC ID: 2BLP-G7A1

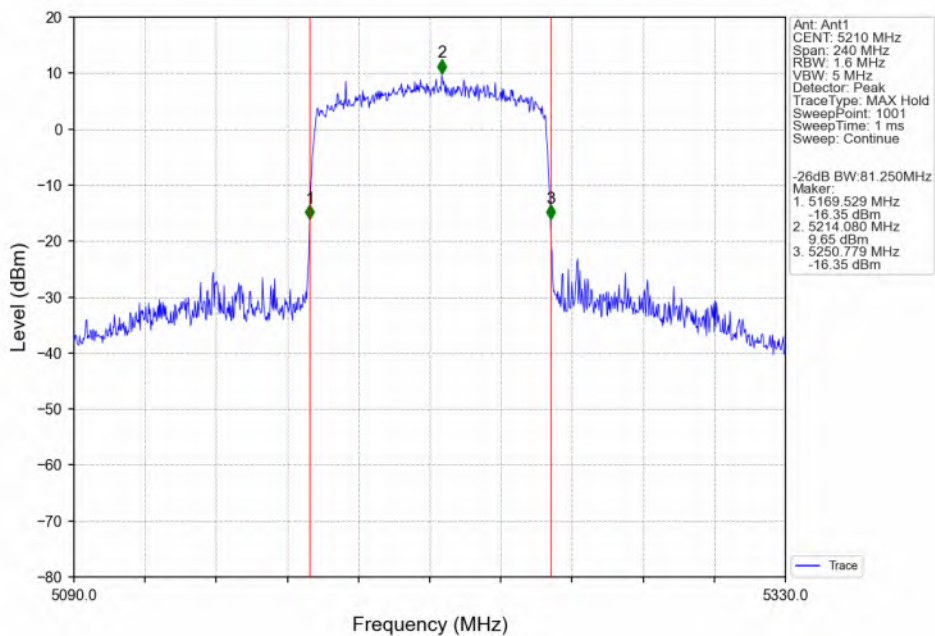


FCC ID: 2BLP-G7A1

802.11ax(HEW40)_HCH_5230MHz_SU_ / Ant1_NTNV

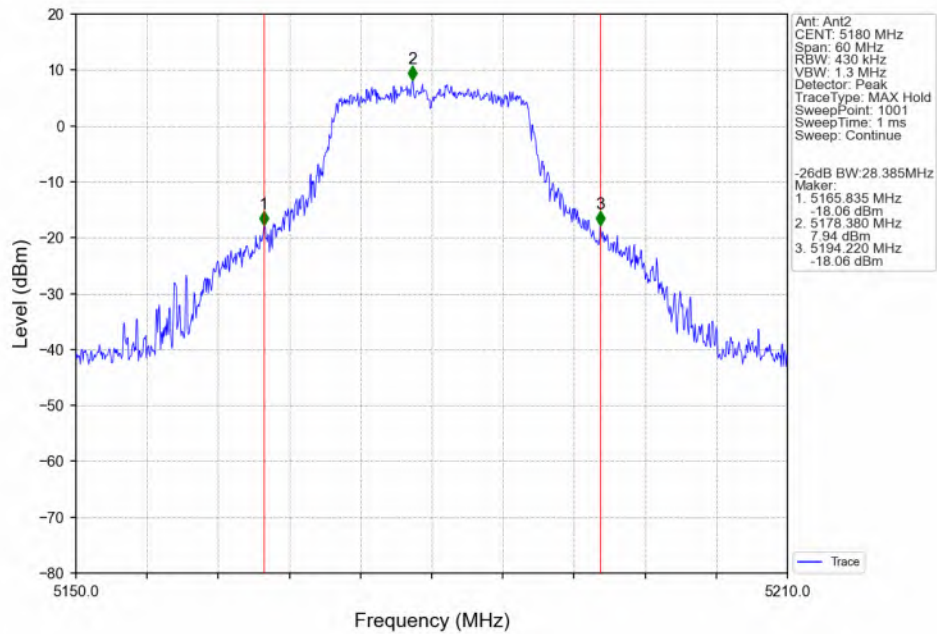


802.11ax(HEW80)_MCH_5210MHz_SU_ / Ant1_NTNV

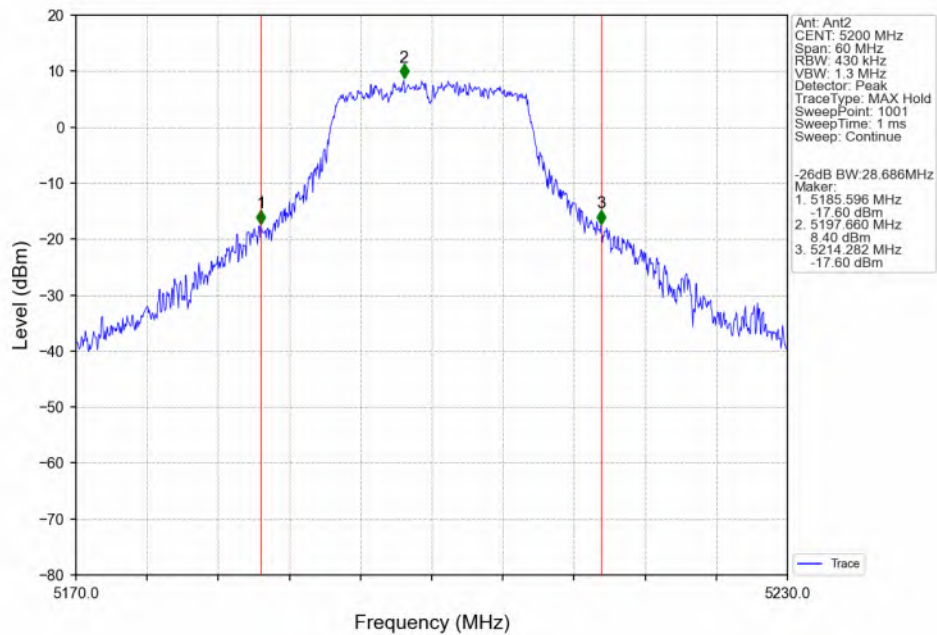


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802.11a LCH 5180MHz Ant2 NTV

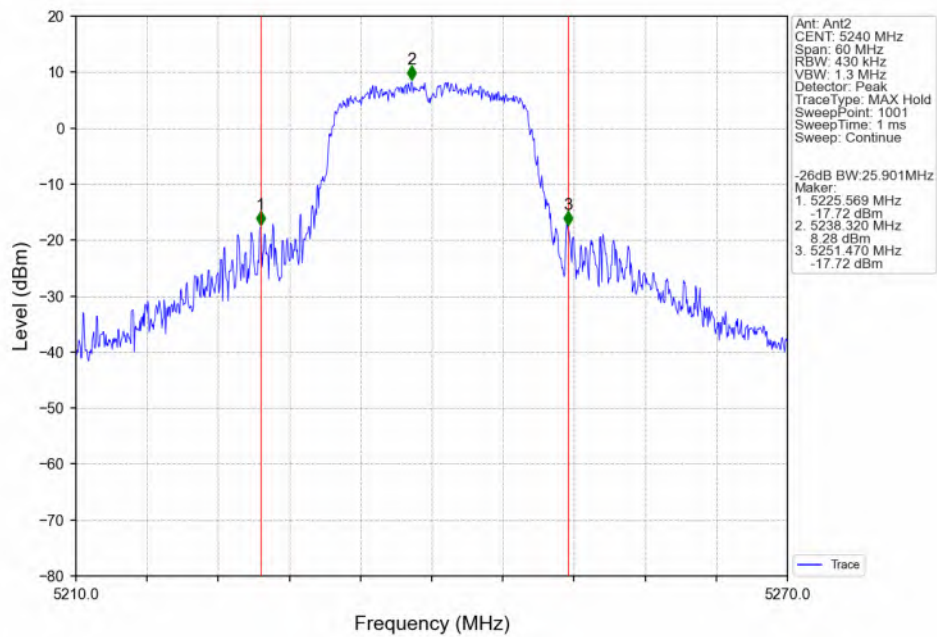


802.11a MCH 5200MHz Ant2 NTV

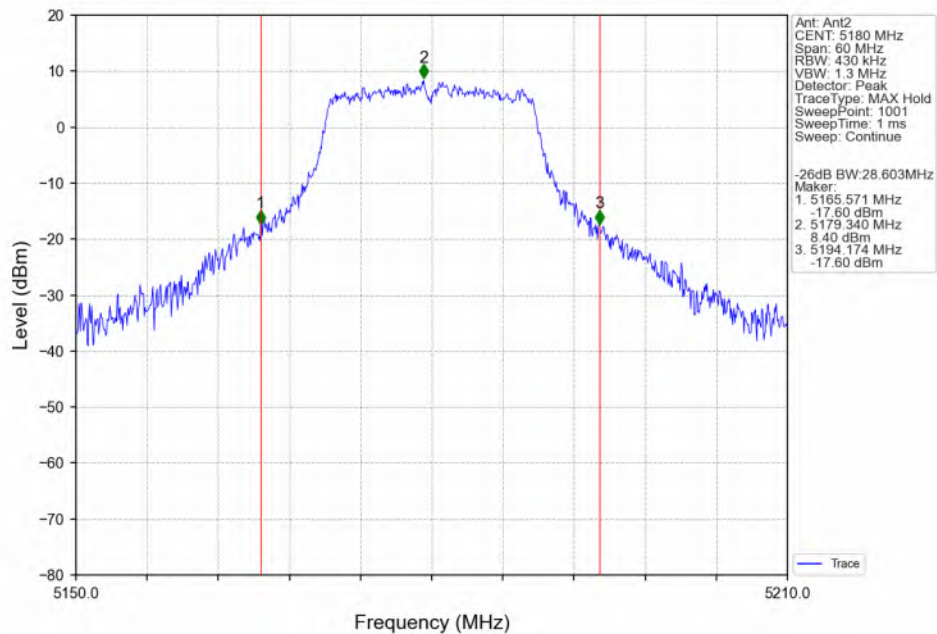


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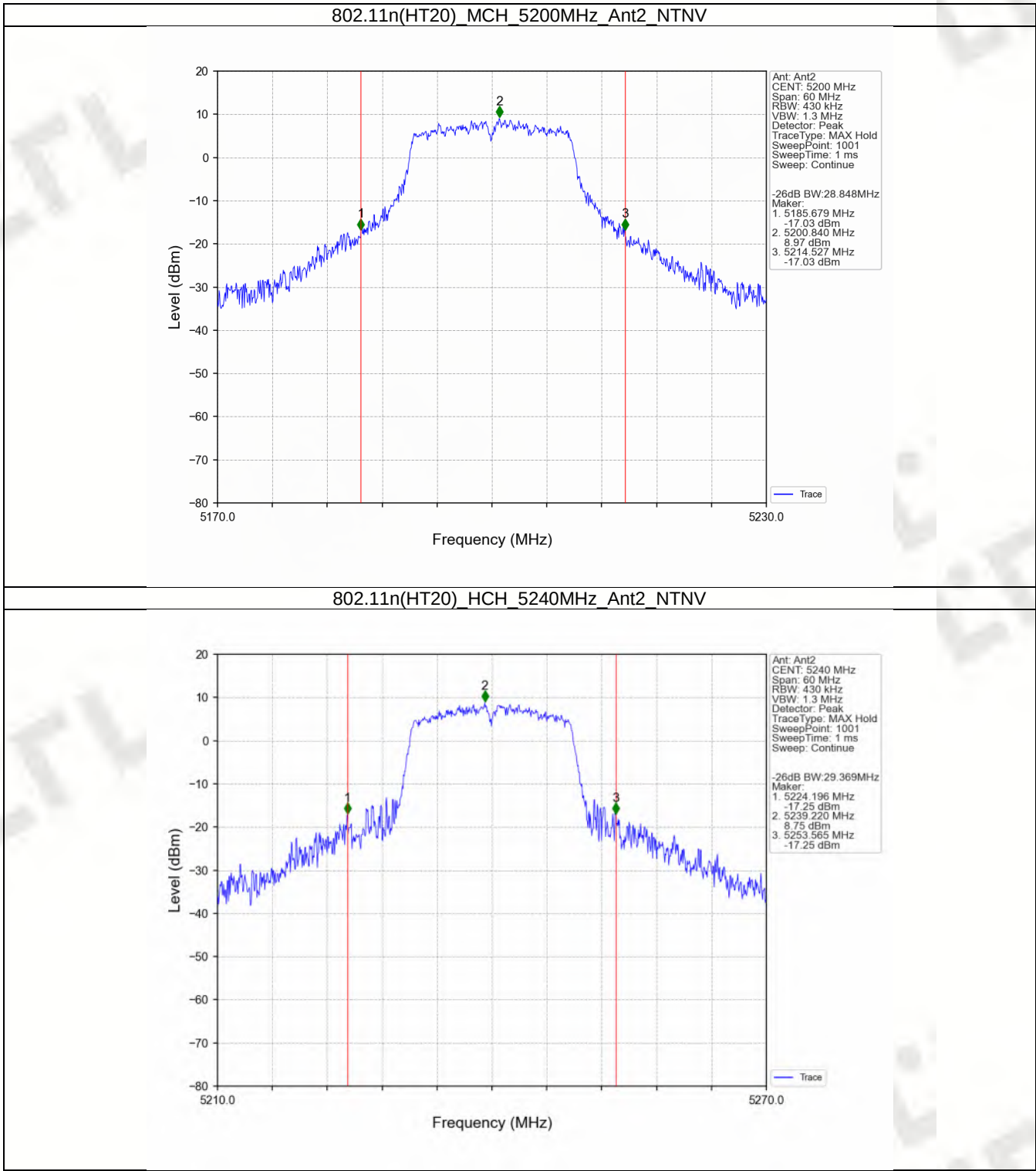
802.11a_HCH_5240MHz_Ant2_NTNV



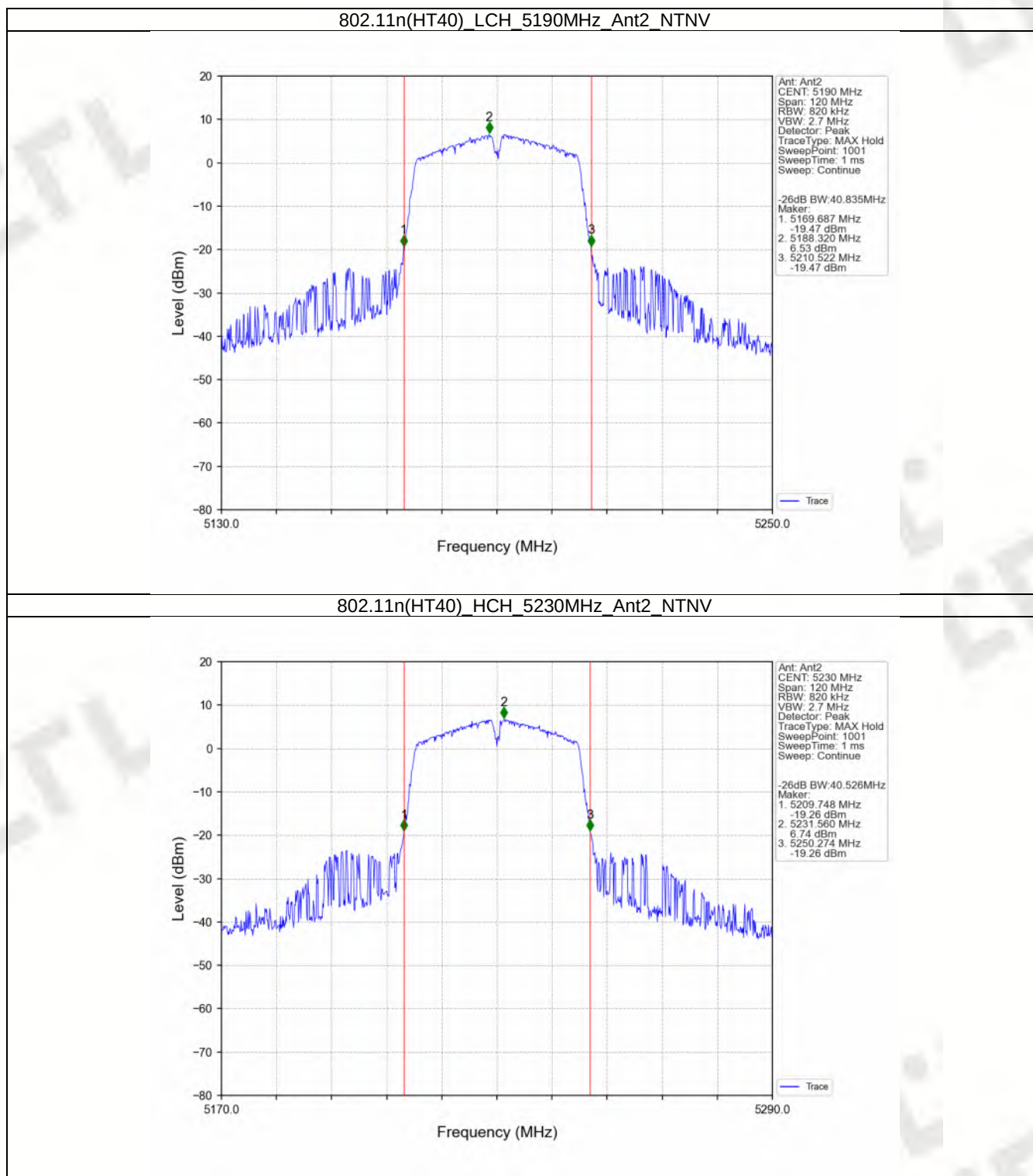
802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



FCC ID: 2BLP-G7A1

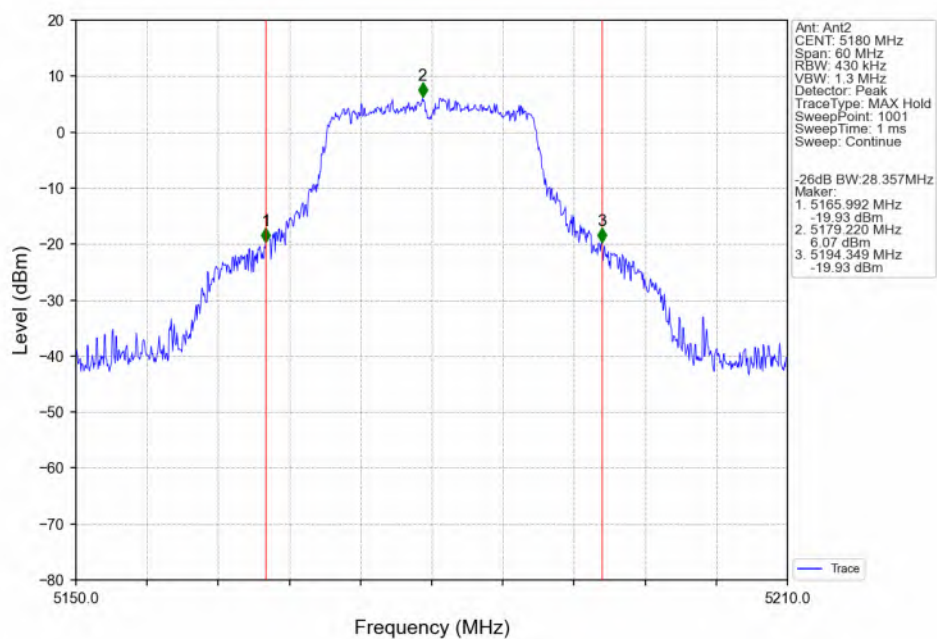


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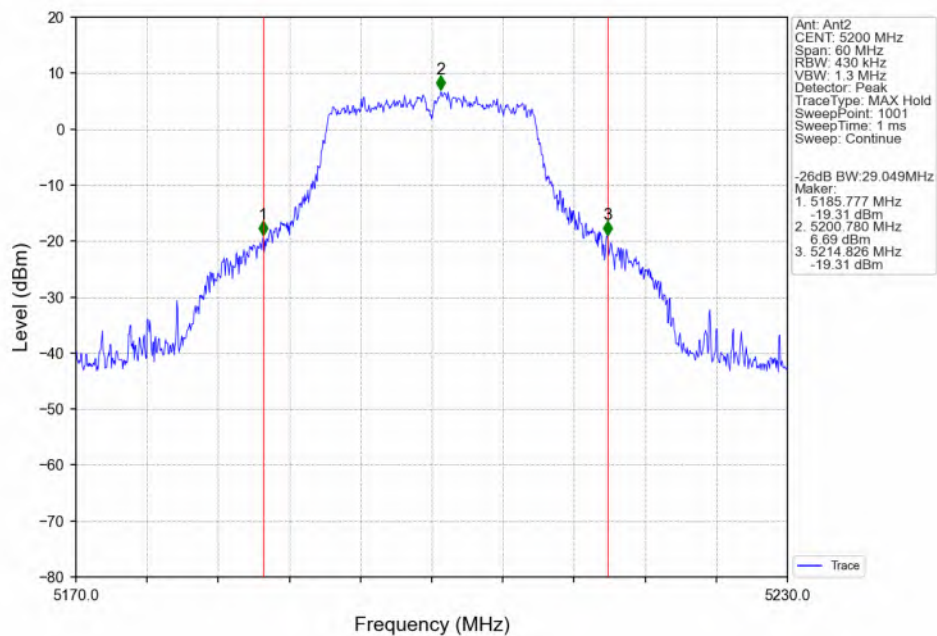


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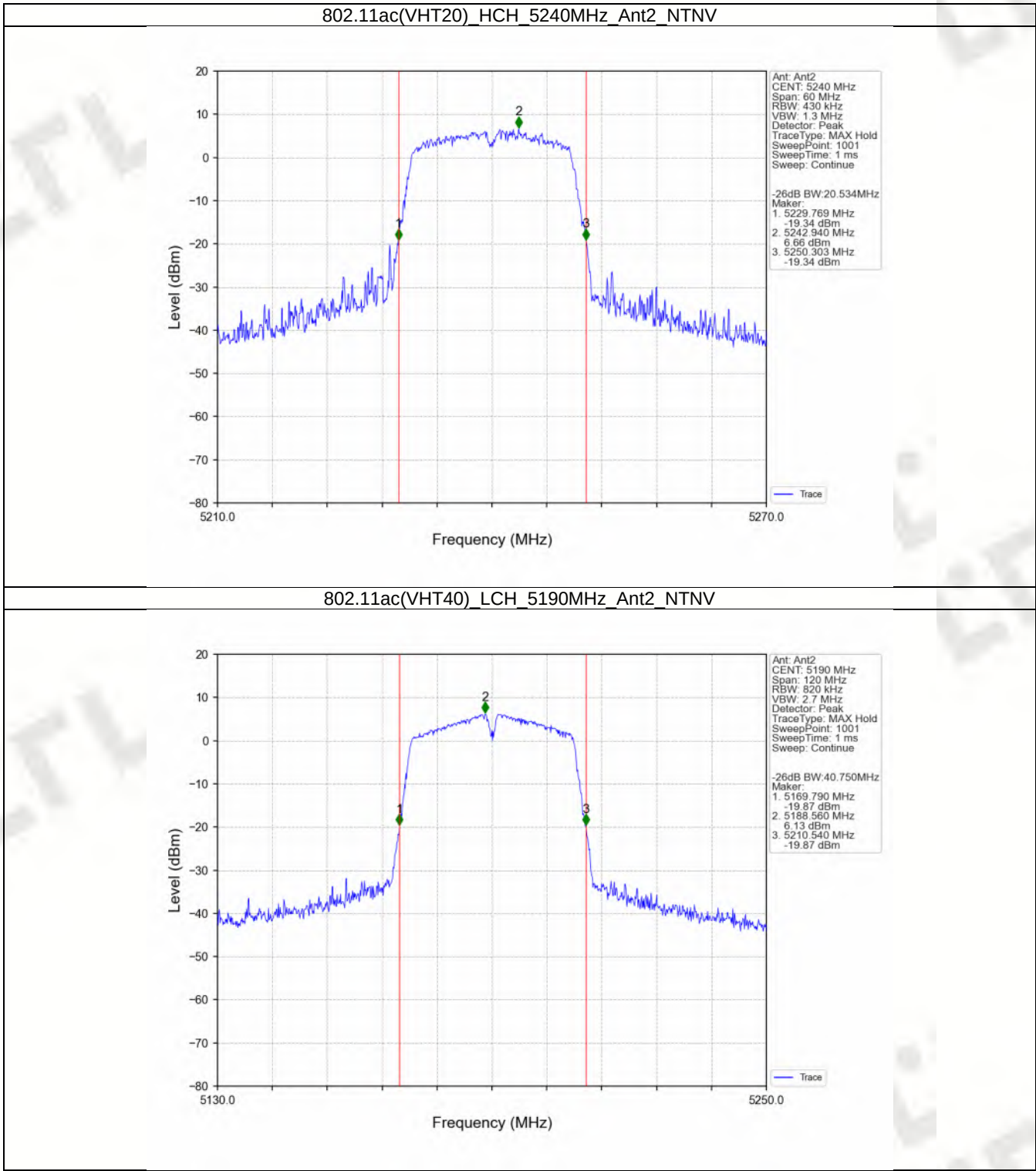
802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV



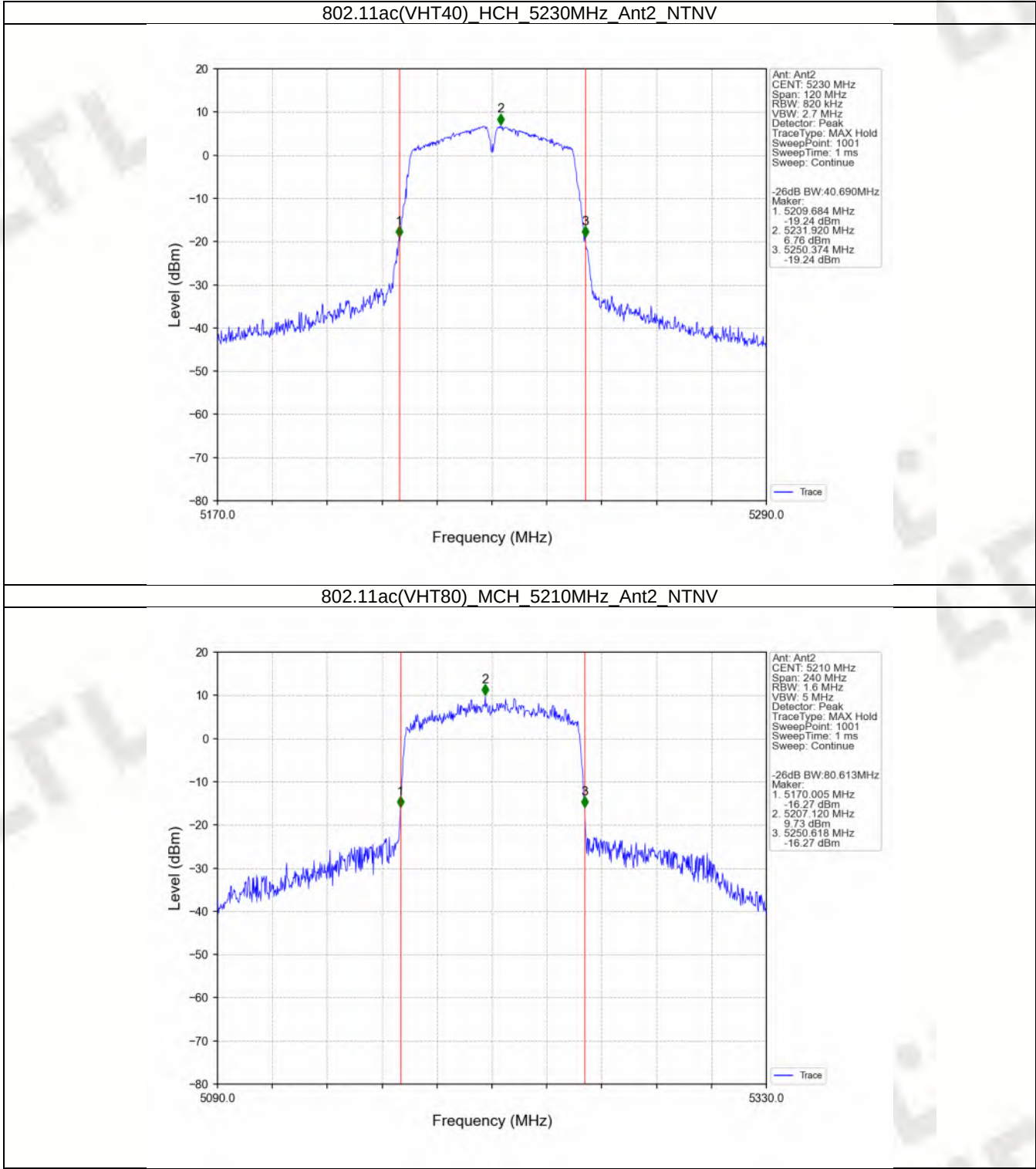
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



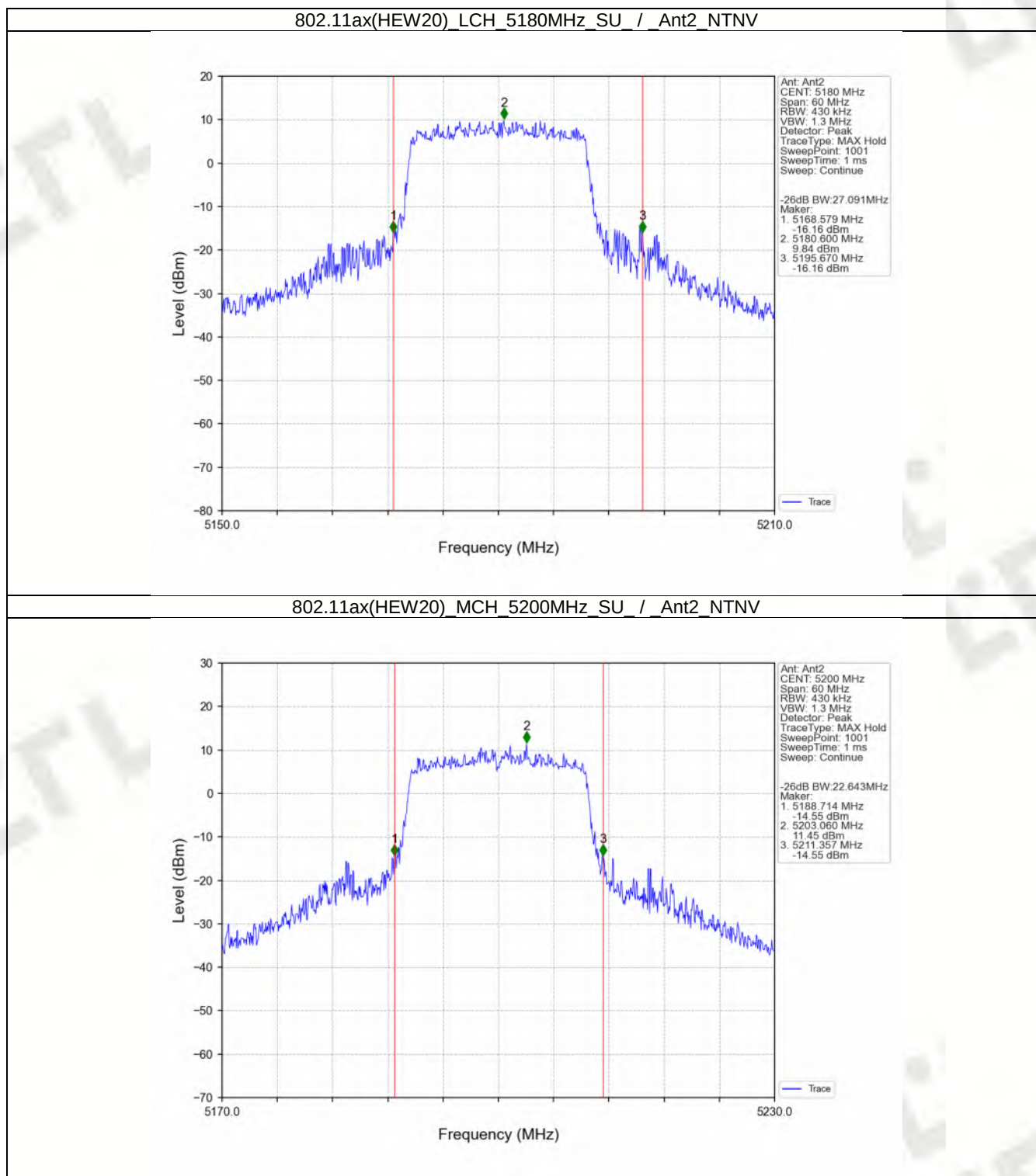
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FCC ID: 2BLP-G7A1

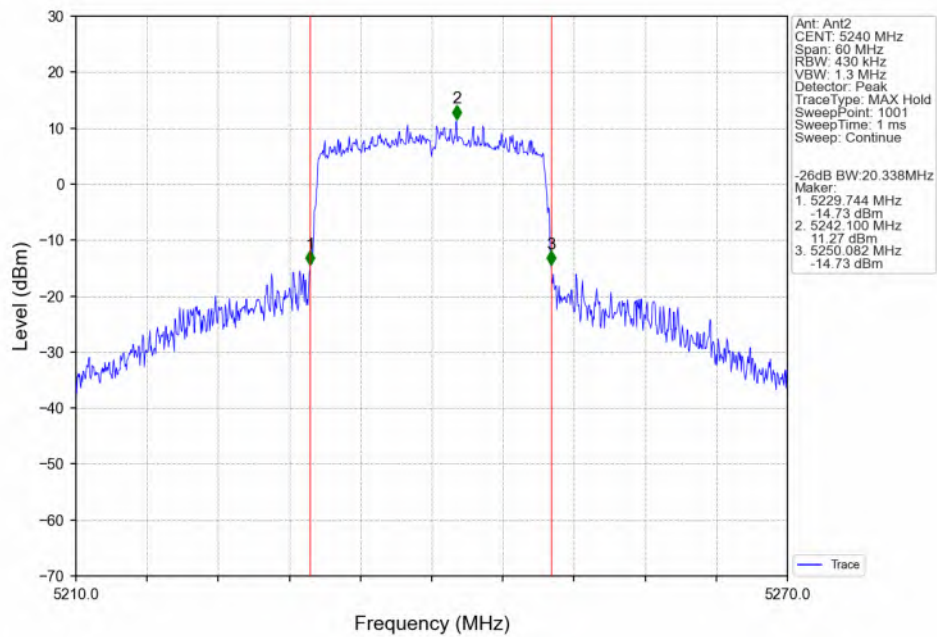


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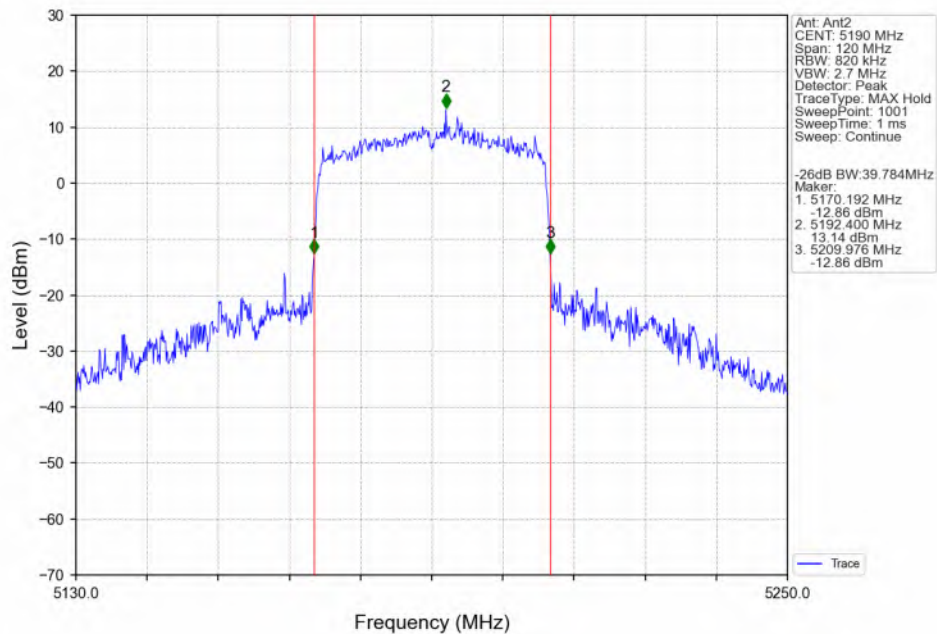


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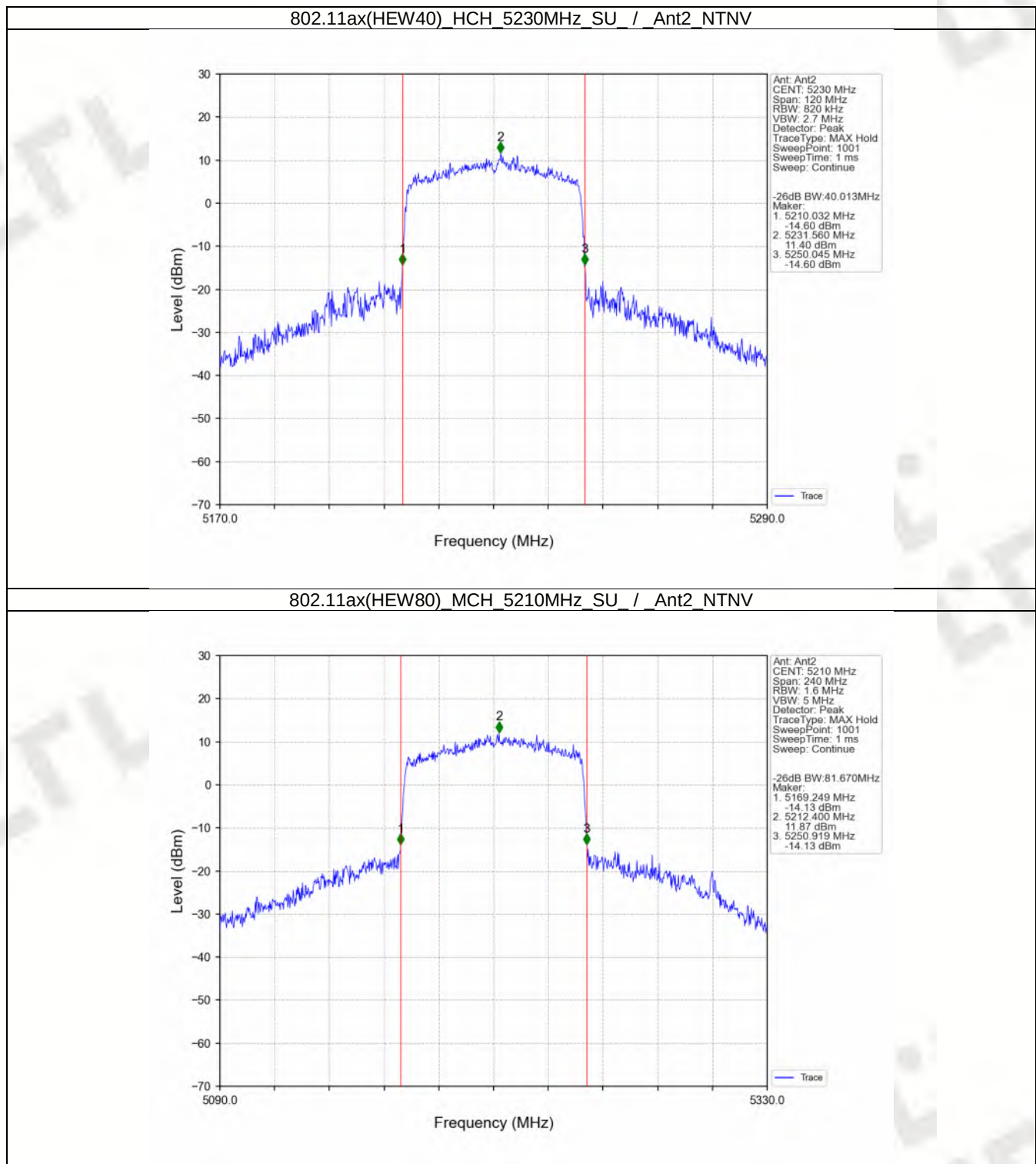
802.11ax(HEW20)_HCH_5240MHz_SU_ / _Ant2_NTNV



802.11ax(HEW40)_LCH_5190MHz_SU_ / _Ant2_NTNV



FCC ID: 2BLP-G7A1



FCC ID: 2BLP-G7A1

3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)			Verdict
					ANT1	ANT2	Limit	
802.11a	SISO	5180	/	/	14.09	13.54	<=23.98	Pass
		5200	/	/	14.75	13.67	<=23.98	Pass
		5240	/	/	14.24	13.98	<=23.98	Pass
802.11n (HT20)	SISO	5180	/	/	14.57	14.07	<=23.98	Pass
		5200	/	/	15.24	14.19	<=23.98	Pass
		5240	/	/	14.55	14.45	<=23.98	Pass
802.11n (HT40)	SISO	5190	/	/	13.48	13.49	<=23.98	Pass
		5230	/	/	13.67	13.76	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	/	/	14.62	14.10	<=23.98	Pass
		5200	/	/	14.79	14.00	<=23.98	Pass
		5240	/	/	14.62	14.22	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	/	/	13.33	13.29	<=23.98	Pass
		5230	/	/	13.95	13.76	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	/	/	14.18	13.56	<=23.98	Pass
802.11ax (HEW20)	SISO	5180	SU	/	14.77	14.27	<=23.98	Pass
		5200	SU	/	15.01	14.03	<=23.98	Pass
		5240	SU	/	14.62	14.64	<=23.98	Pass
802.11ax (HEW40)	SISO	5190	SU	/	13.42	13.42	<=23.98	Pass
		5230	SU	/	13.83	14.24	<=23.98	Pass
802.11ax (HEW80)	SISO	5210	SU	/	14.00	13.71	<=23.98	Pass
Note1: Antenna Gain: Ant1: 3.10dBi; Ant2: 2.88dBi;								

FCC ID: 2BLP-G7A1

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

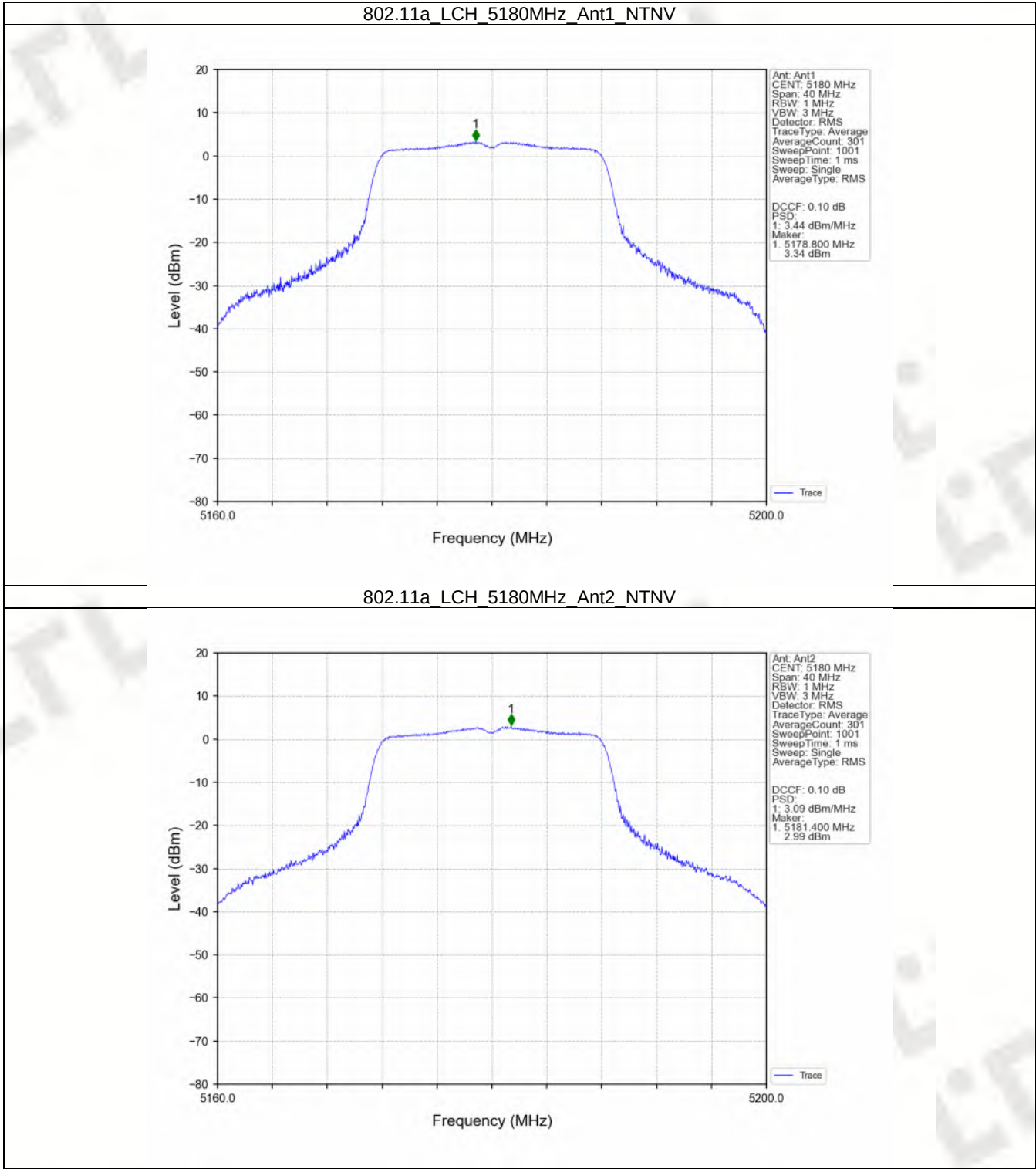
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)			Verdict
					ANT1	ANT2	Limit	
802.11a	SISO	5180	/	/	3.44	3.09	<=11	Pass
		5200	/	/	4.17	3.00	<=11	Pass
		5240	/	/	3.76	3.53	<=11	Pass
802.11n (HT20)	SISO	5180	/	/	3.75	3.33	<=11	Pass
		5200	/	/	4.31	3.42	<=11	Pass
		5240	/	/	4.10	3.77	<=11	Pass
802.11n (HT40)	SISO	5190	/	/	0.48	0.53	<=11	Pass
		5230	/	/	0.89	0.85	<=11	Pass
802.11ac (VHT20)	SISO	5180	/	/	3.59	3.22	<=11	Pass
		5200	/	/	3.99	3.07	<=11	Pass
		5240	/	/	4.10	3.63	<=11	Pass
802.11ac (VHT40)	SISO	5190	/	/	0.24	0.22	<=11	Pass
		5230	/	/	0.99	0.77	<=11	Pass
802.11ac (VHT80)	SISO	5210	/	/	-2.34	-2.78	<=11	Pass
802.11ax (HEW20)	SISO	5180	SU	/	3.40	3.00	<=11	Pass
		5200	SU	/	3.88	2.75	<=11	Pass
		5240	SU	/	3.62	3.61	<=11	Pass
802.11ax (HEW40)	SISO	5190	SU	/	0.12	0.12	<=11	Pass
		5230	SU	/	0.61	0.97	<=11	Pass
802.11ax (HEW80)	SISO	5210	SU	/	-2.31	-2.74	<=11	Pass

Note1: Antenna Gain: Ant1: 3.10dBi; Ant2: 2.88dBi;

FCC ID: 2BLP-G7A1

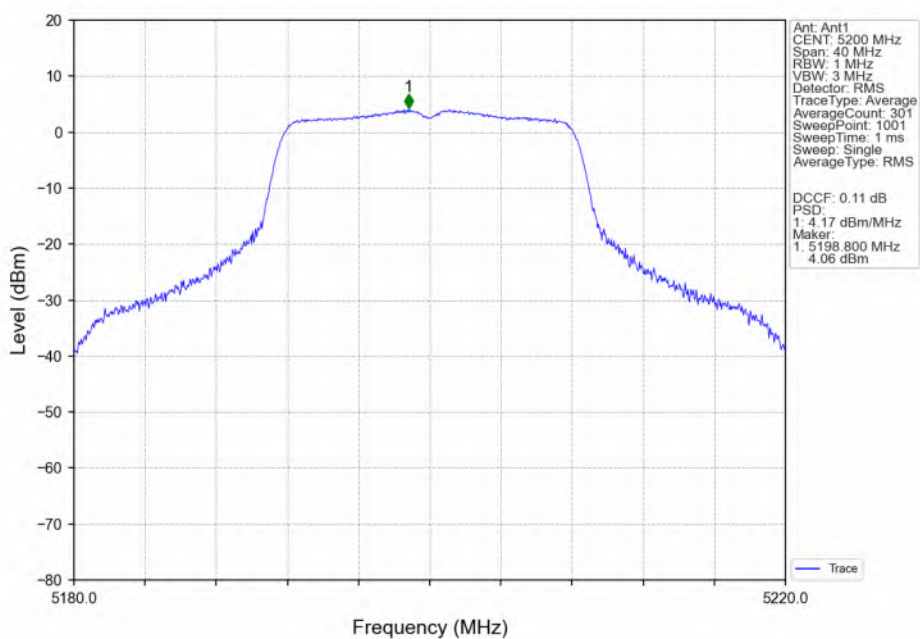
4.2 Test Graph

4.2.1 PSD

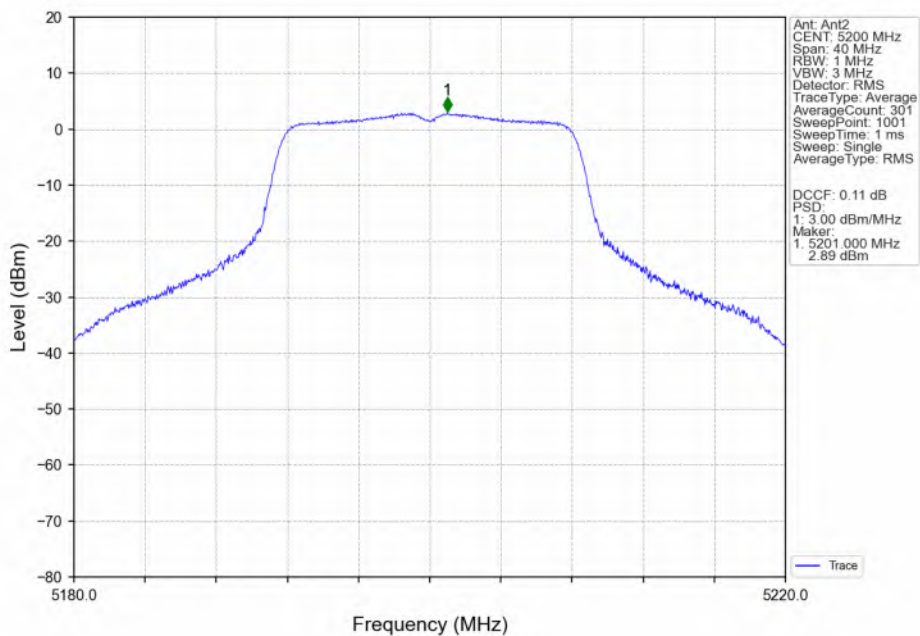


FCC ID: 2BLP-G7A1

802.11a_MCH_5200MHz_Ant1_NTNV

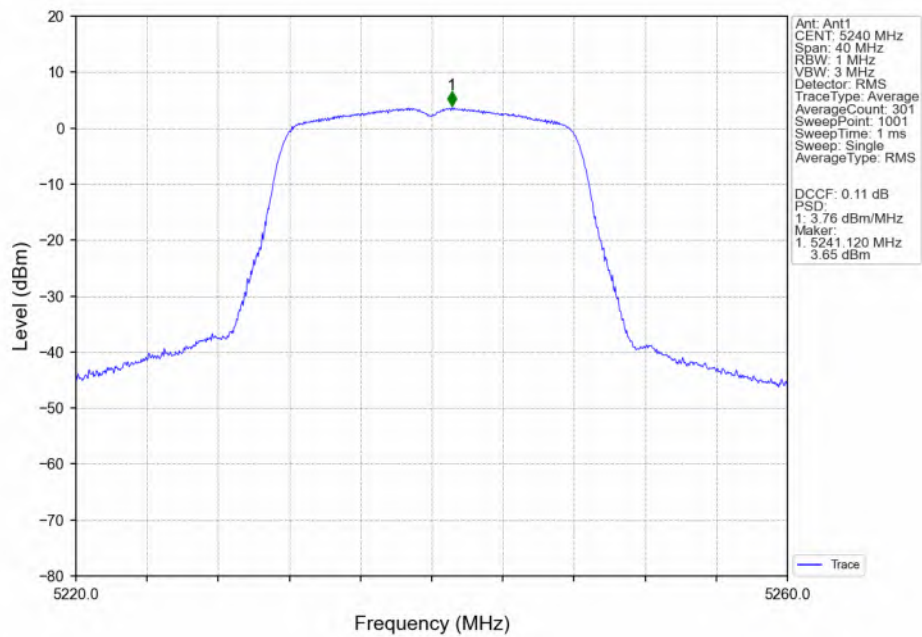


802.11a_MCH_5200MHz_Ant2_NTNV

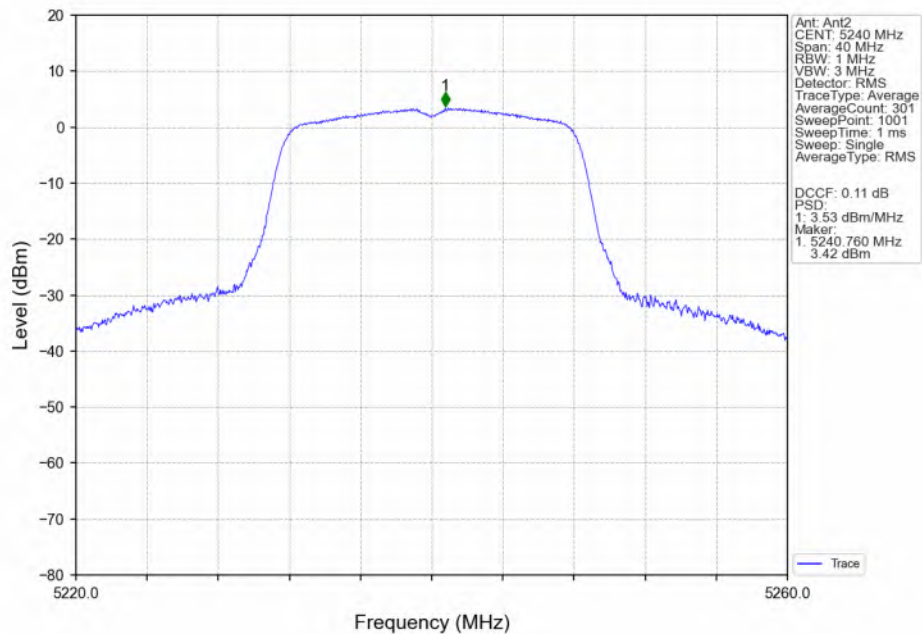


FCC ID: 2BLP-G7A1

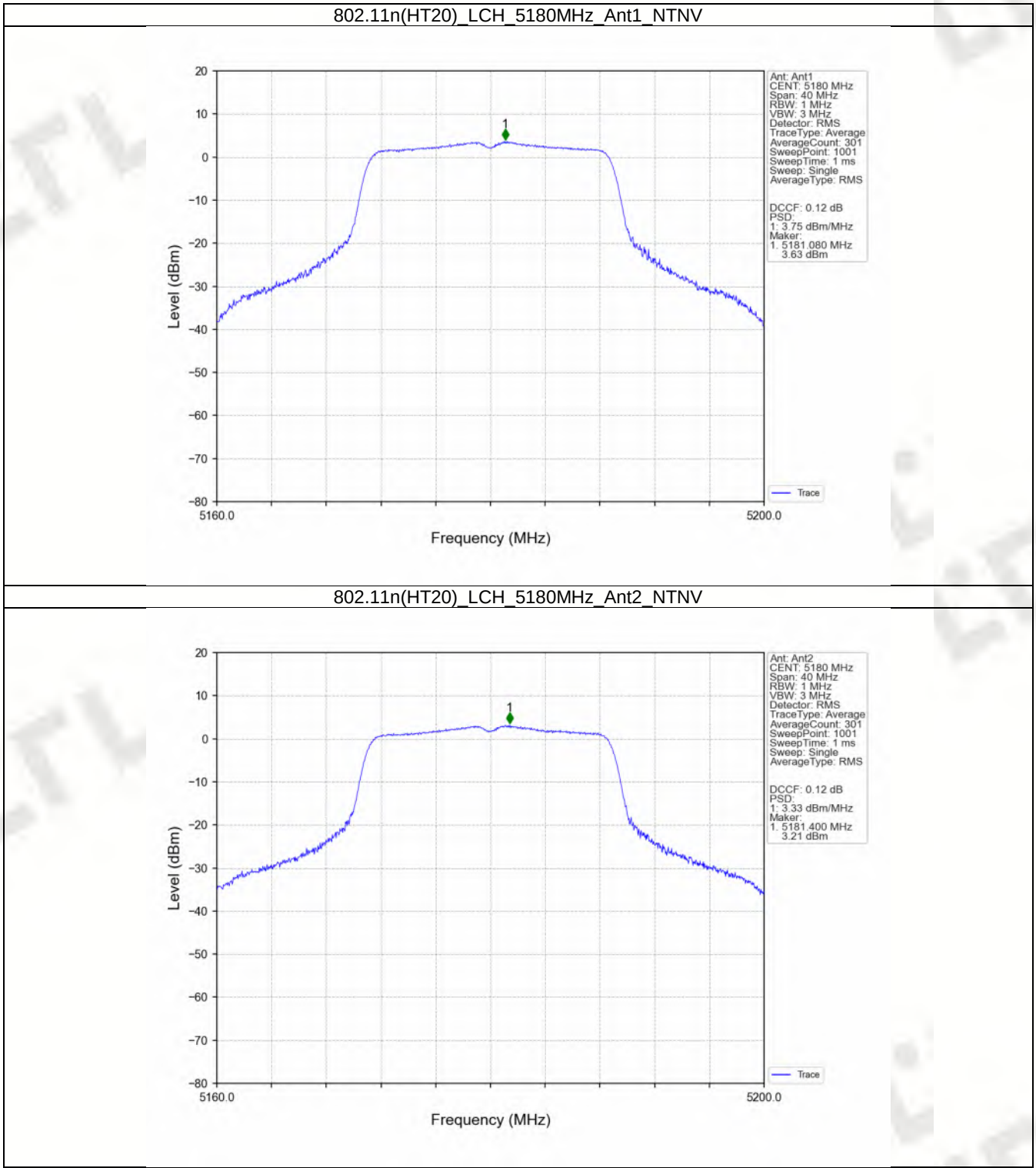
802.11a_HCH_5240MHz_Ant1_NTNV



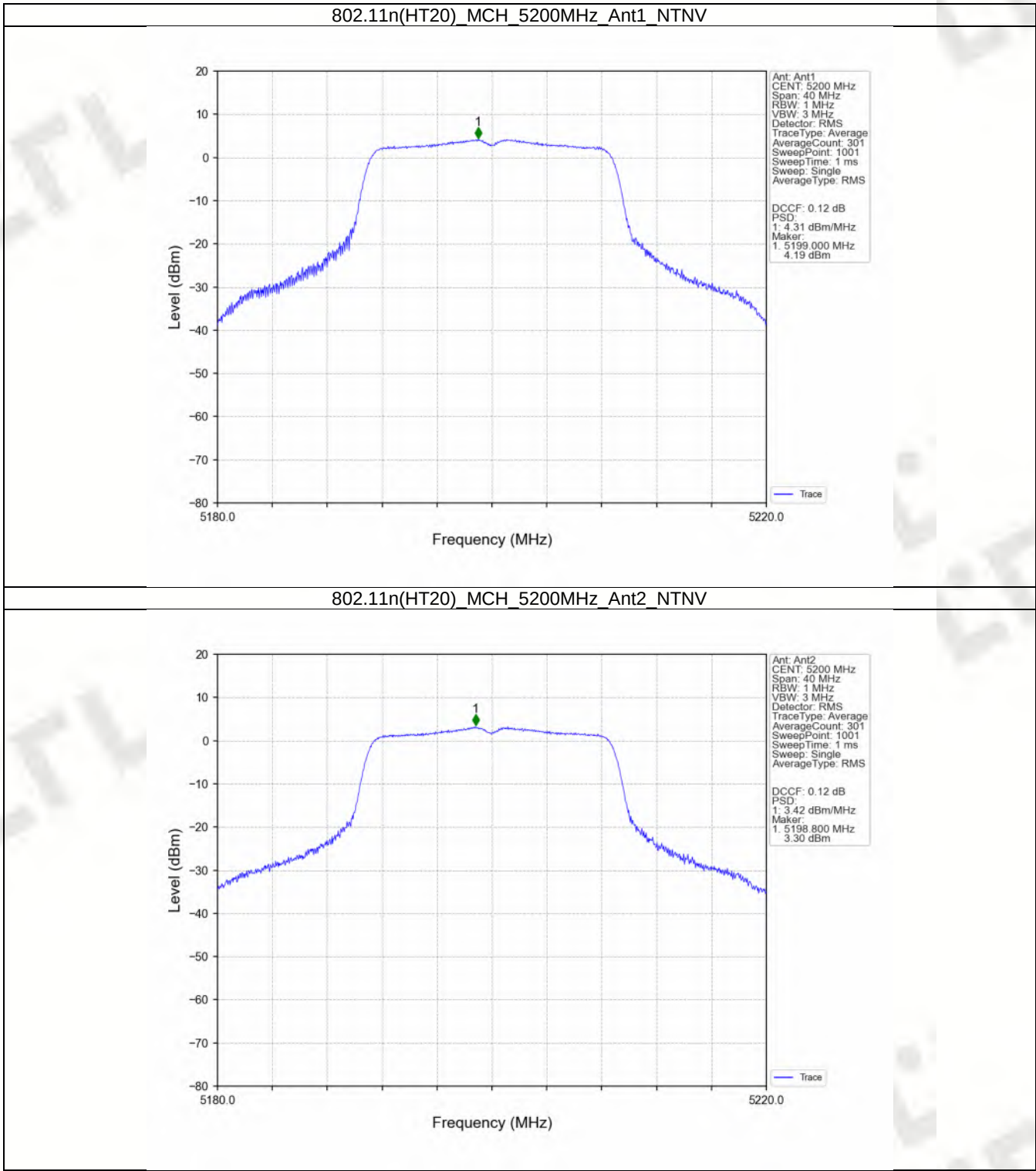
802.11a_HCH_5240MHz_Ant2_NTNV



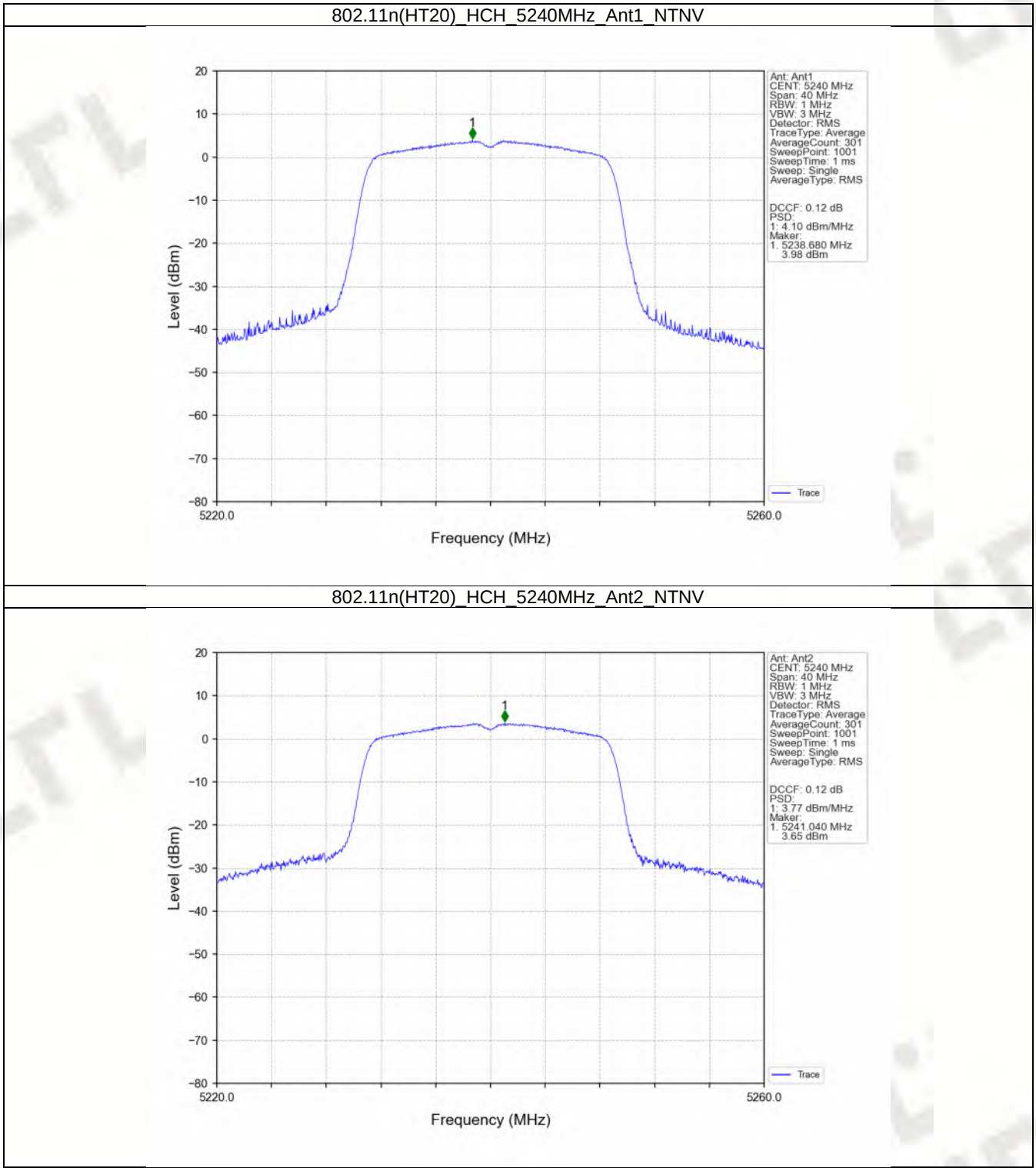
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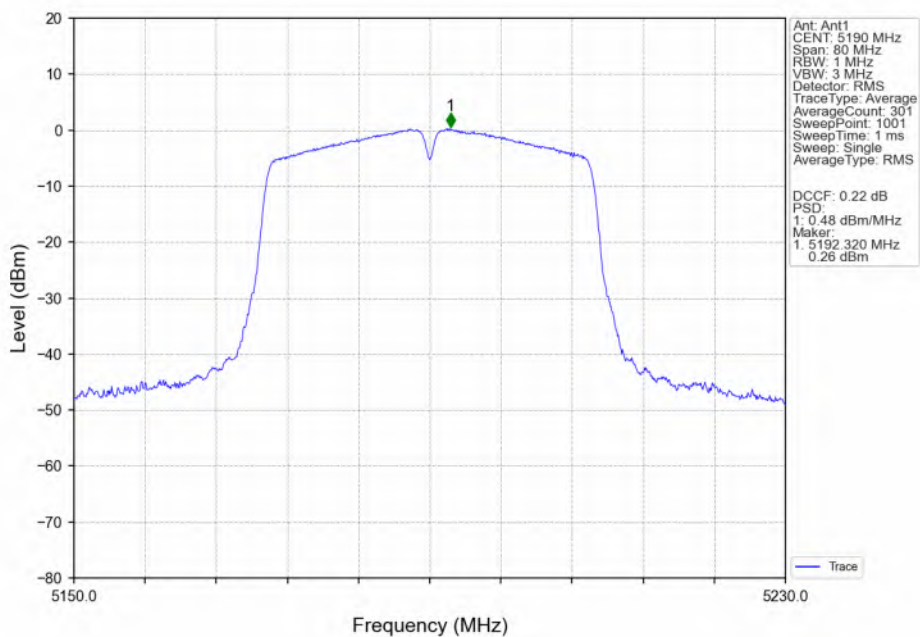


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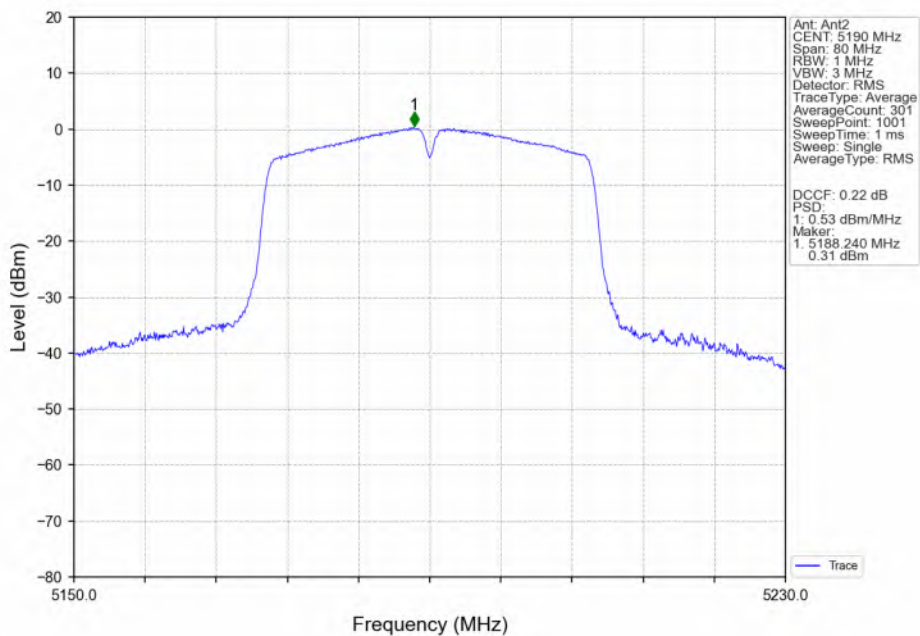


FCC ID: 2BLP-G7A1

802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

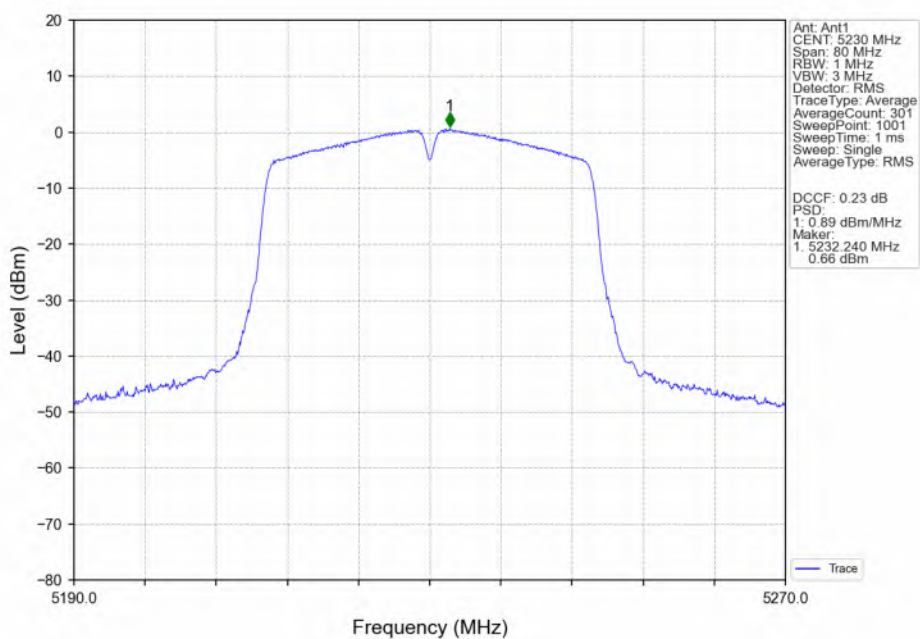


802.11n(HT40)_LCH_5190MHz_Ant2_NTNV

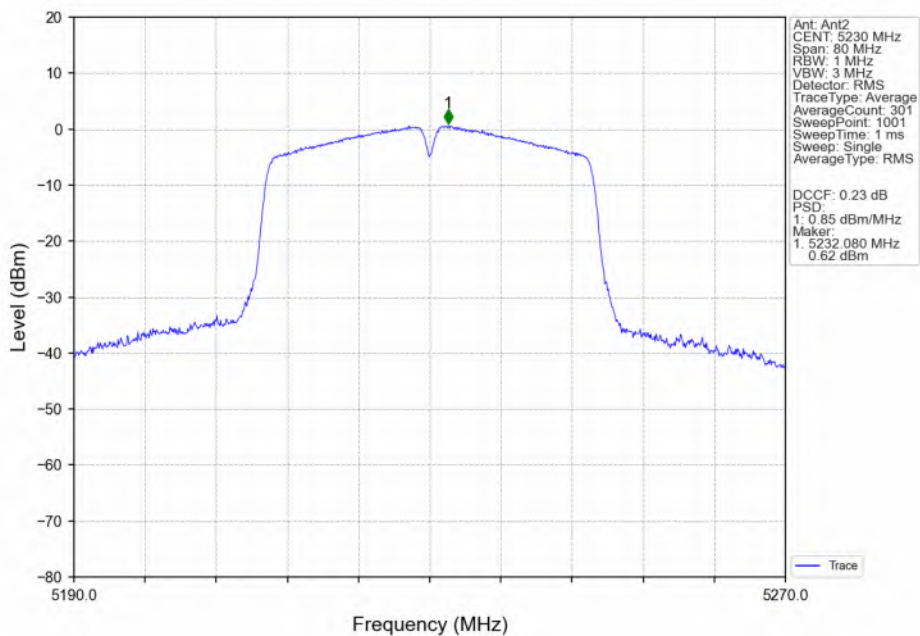


FCC ID: 2BLP-G7A1

802.11n(HT40) HCH 5230MHz_Ant1_NTNV

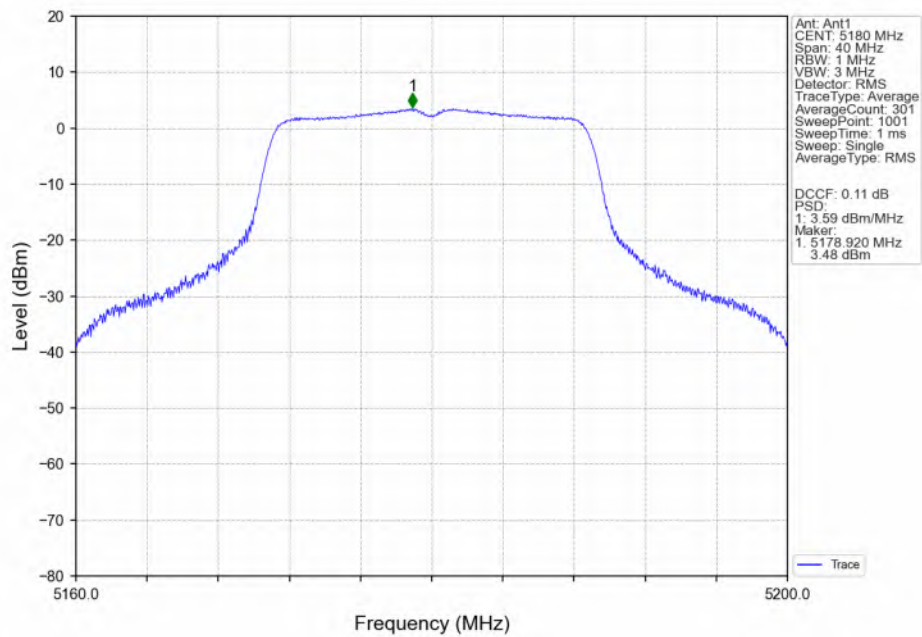


802.11n(HT40) HCH 5230MHz_Ant2_NTNV

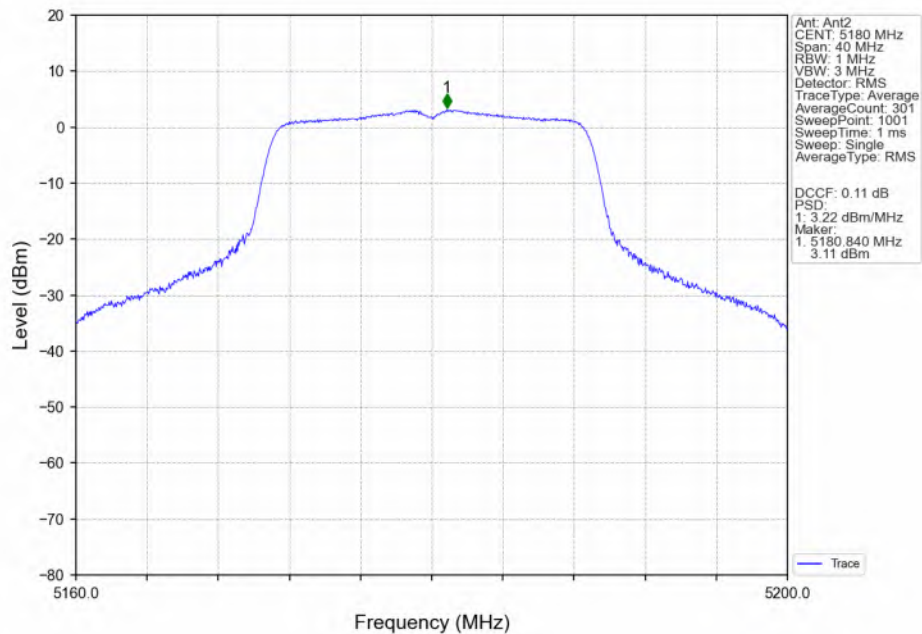


FCC ID: 2BLP-G7A1

802.11ac(VHT20) LCH_5180MHz_Ant1_NTNV

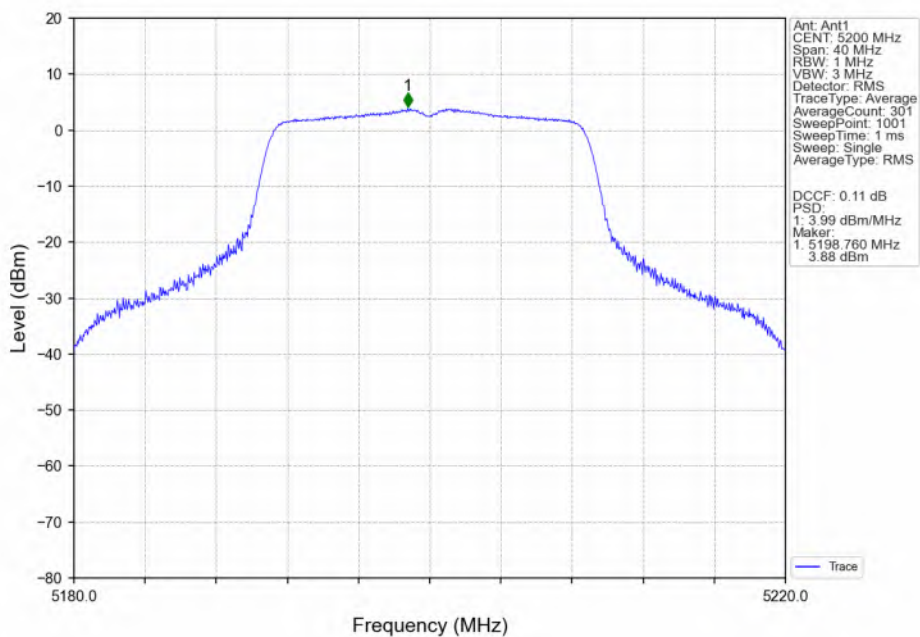


802.11ac(VHT20) LCH_5180MHz_Ant2_NTNV

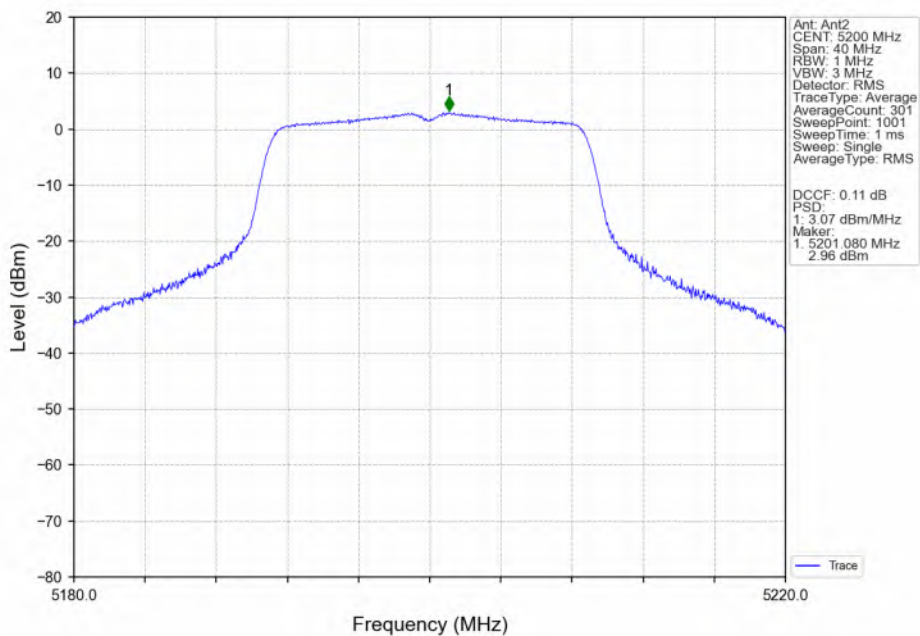


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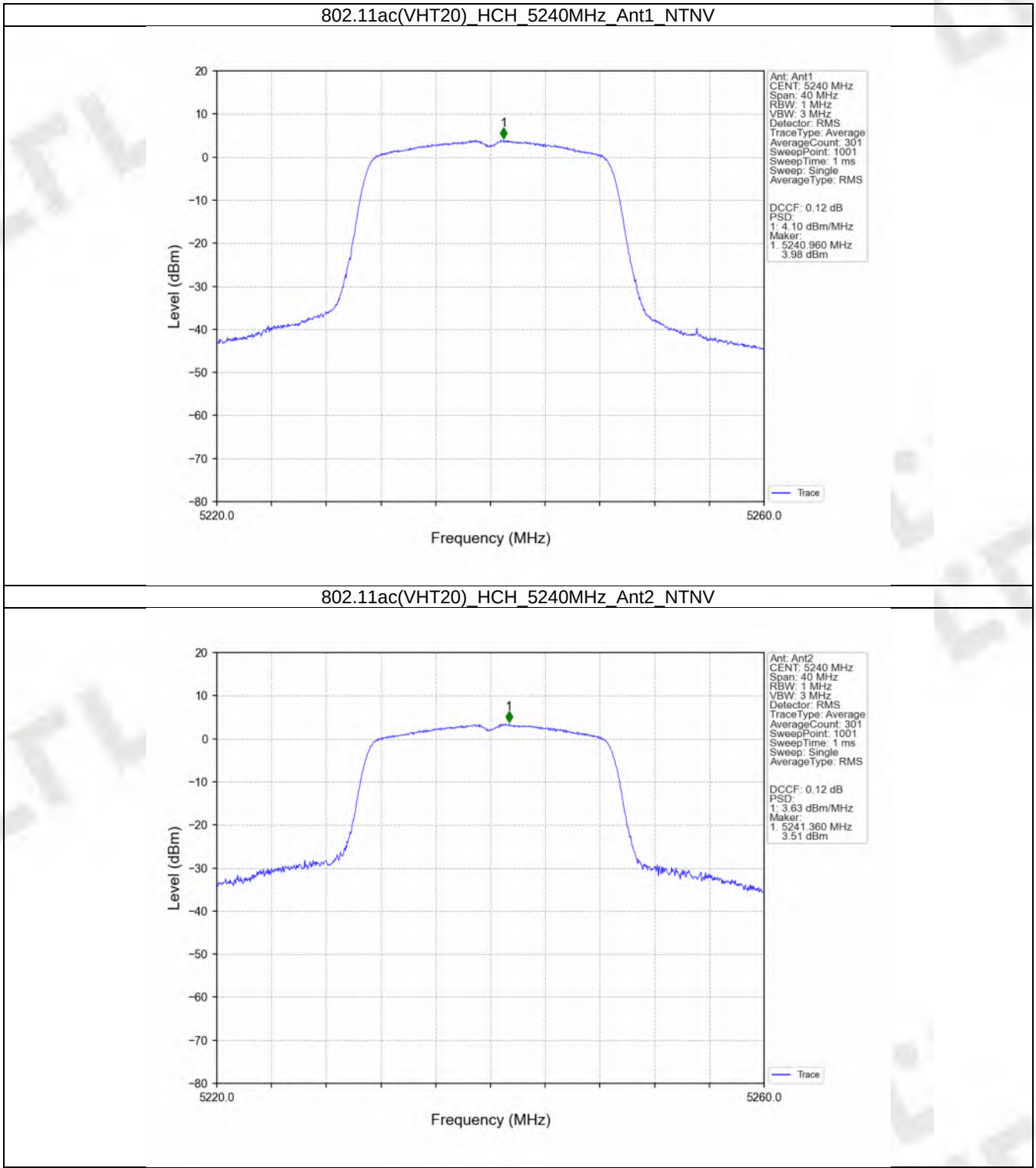
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV

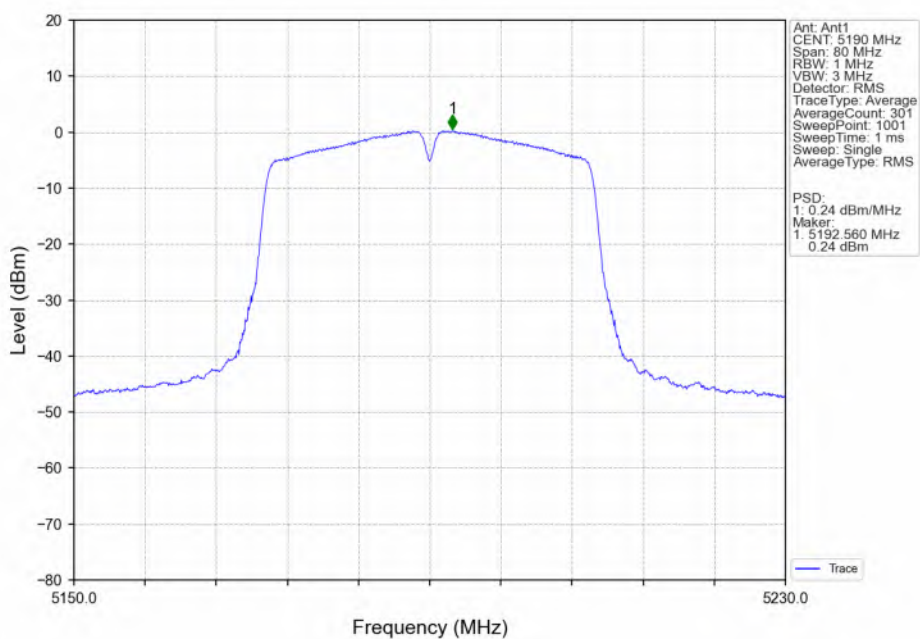


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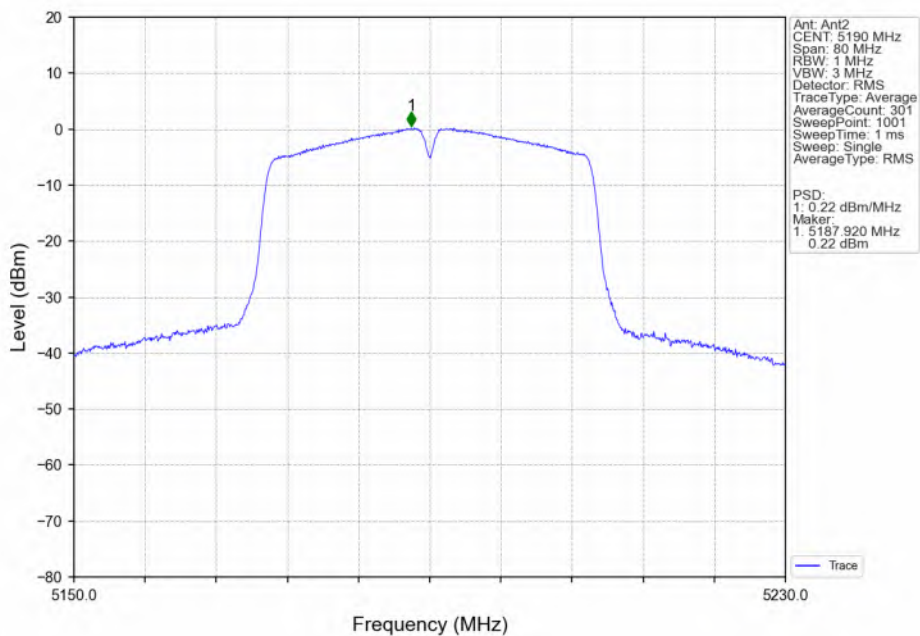


FCC ID: 2BLP-G7A1

802.11ac(VHT40) LCH_5190MHz_Ant1_NTNV

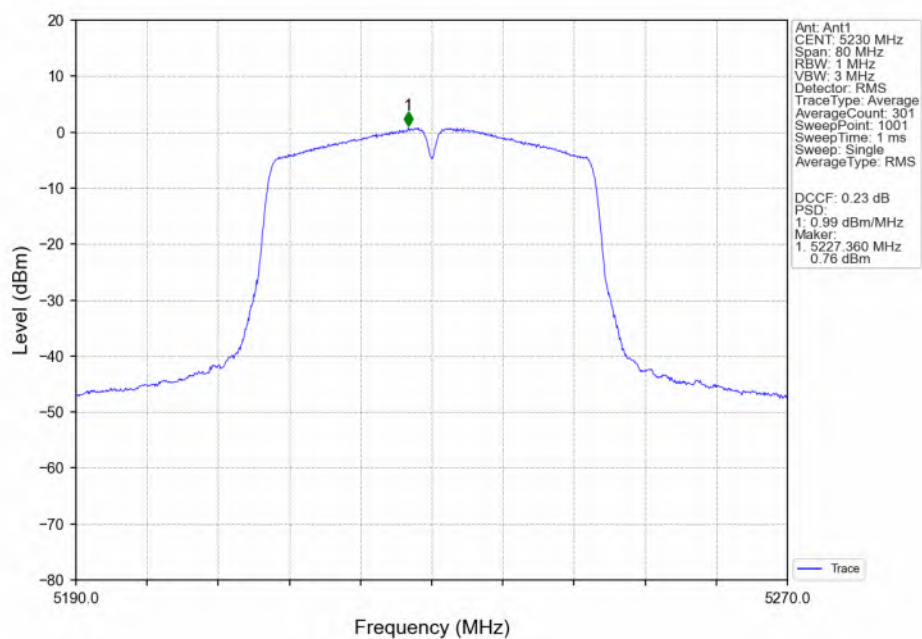


802.11ac(VHT40) LCH_5190MHz_Ant2_NTNV

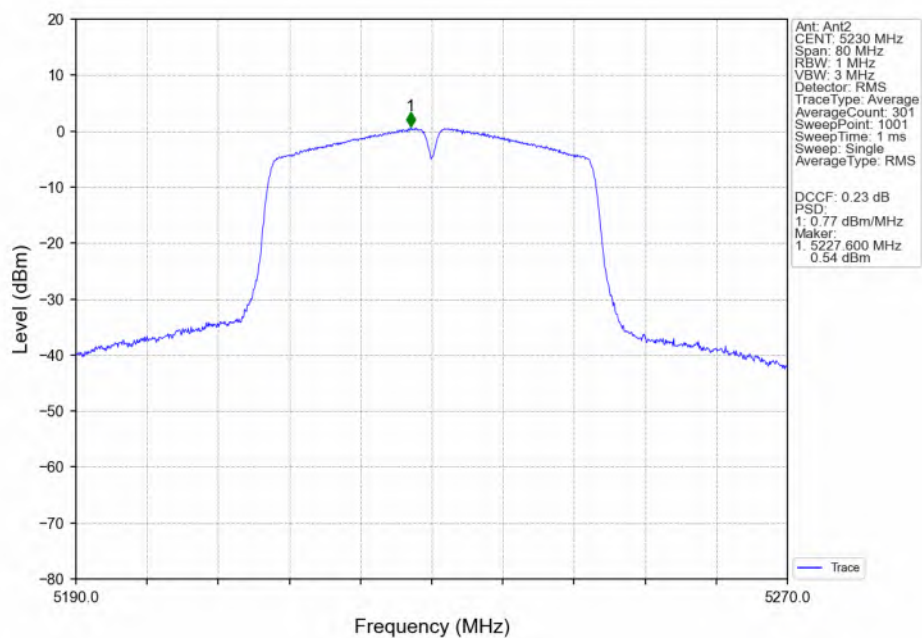


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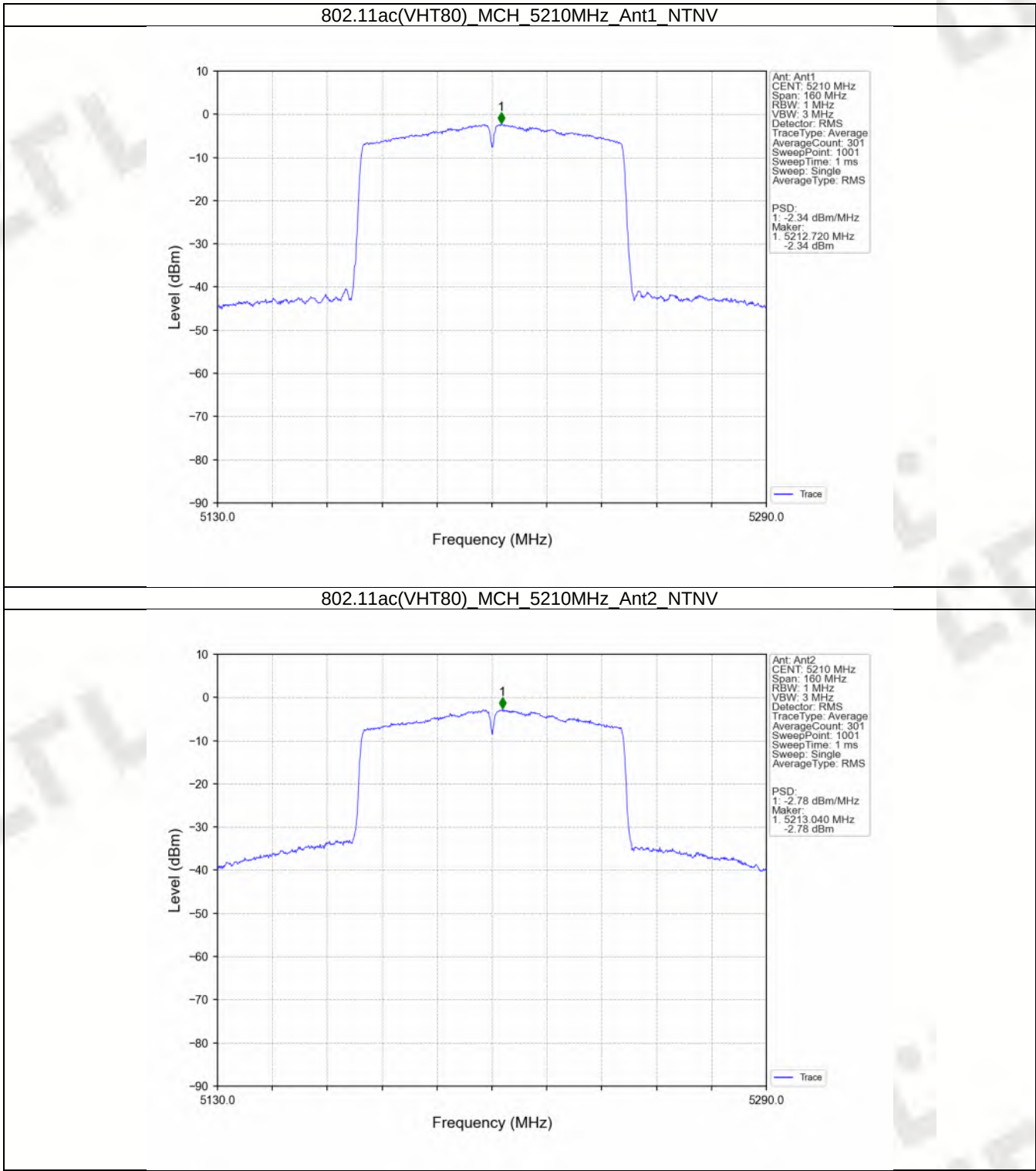
802.11ac(VHT40) HCH 5230MHz Ant1_NTNV



802.11ac(VHT40) HCH 5230MHz Ant2_NTNV

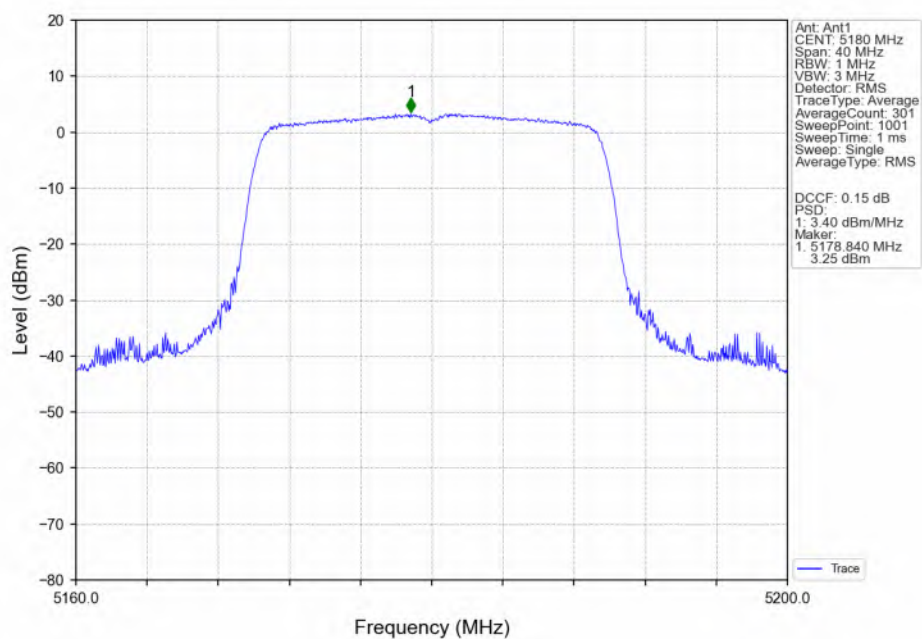


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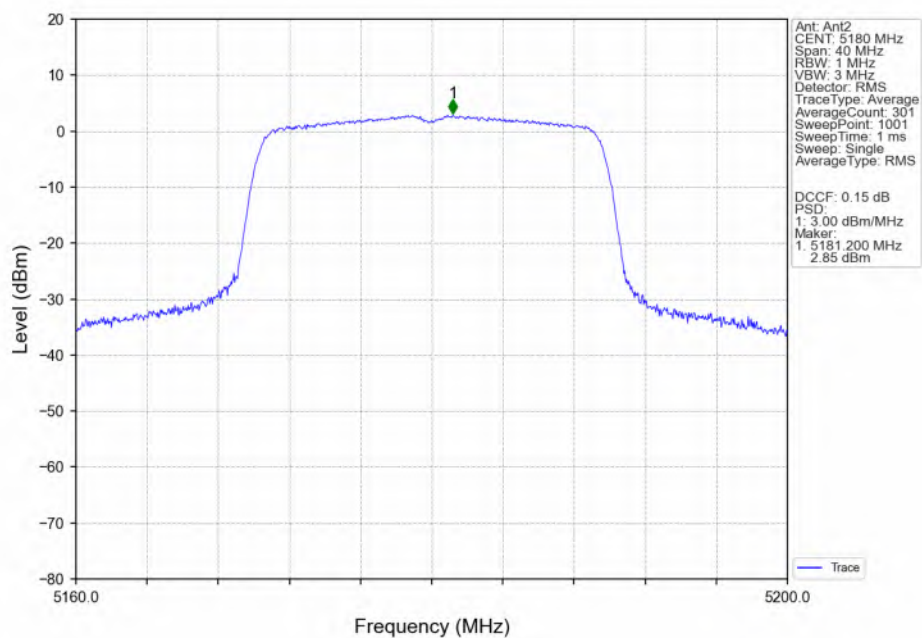


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802.11ax(HEW20)_LCH_5180MHz_SU_/_Ant1_NTNV

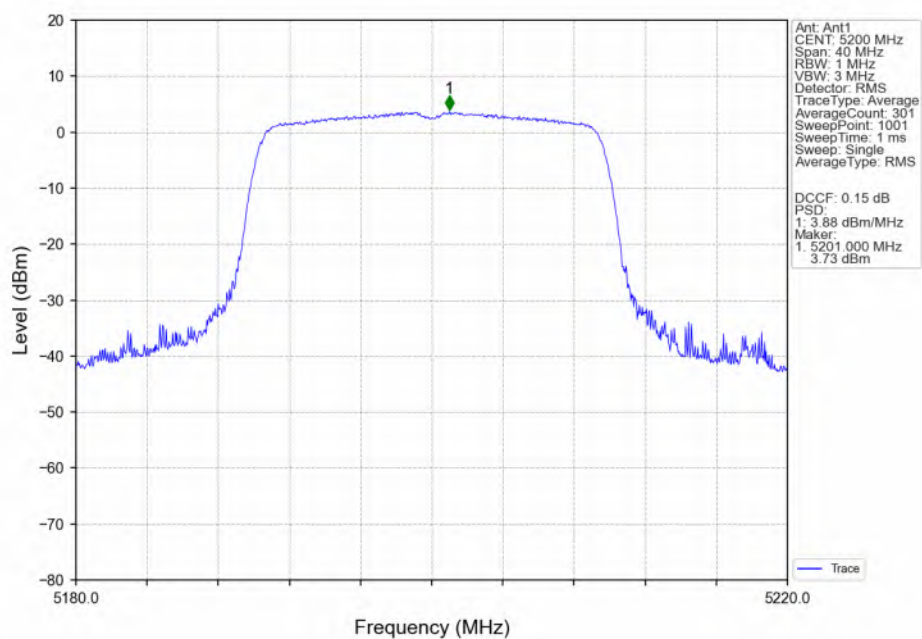


802.11ax(HEW20)_LCH_5180MHz_SU_/_Ant2_NTNV

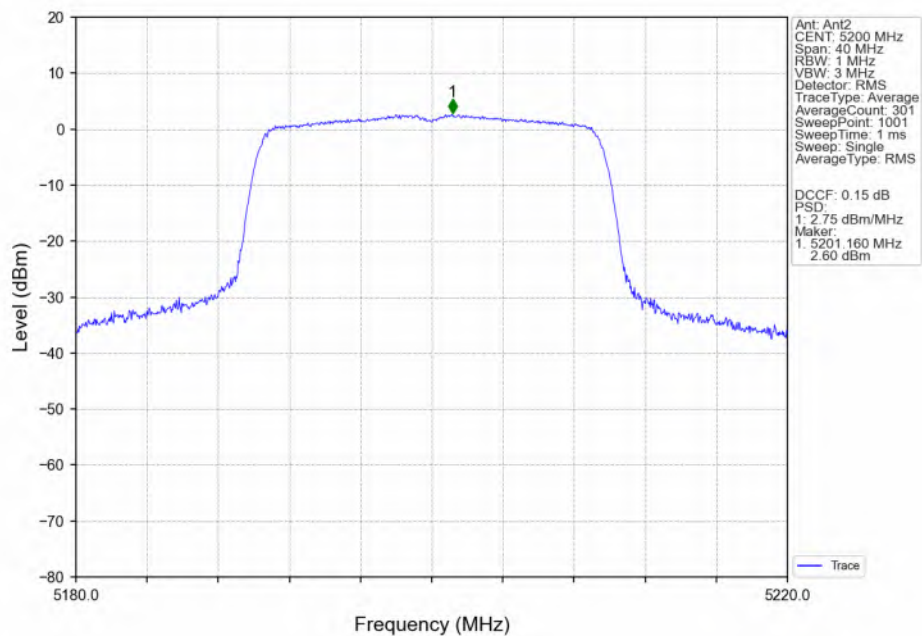


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802.11ax(HEW20)_MCH_5200MHz_SU_ / Ant1_NTNV

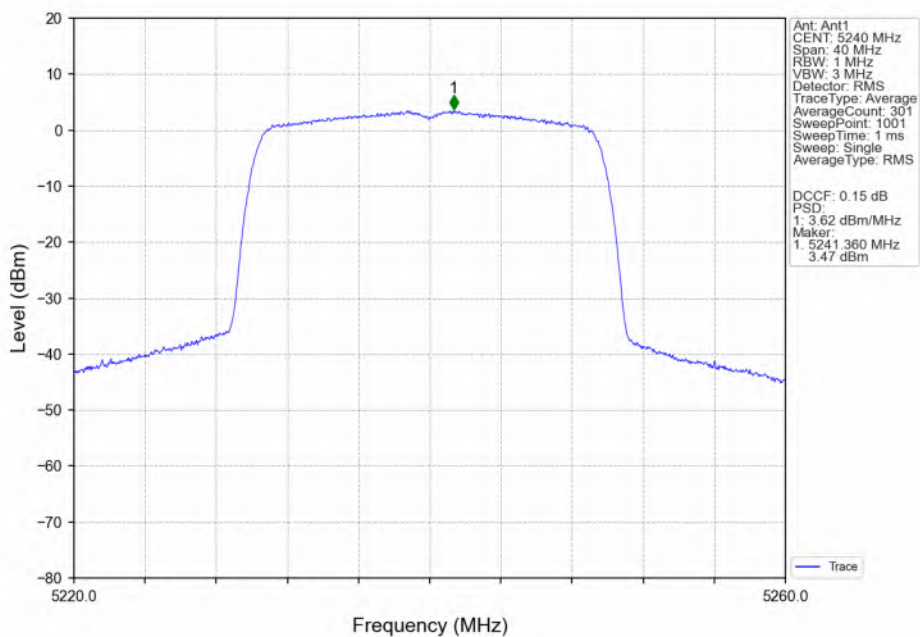


802.11ax(HEW20)_MCH_5200MHz_SU_ / Ant2_NTNV

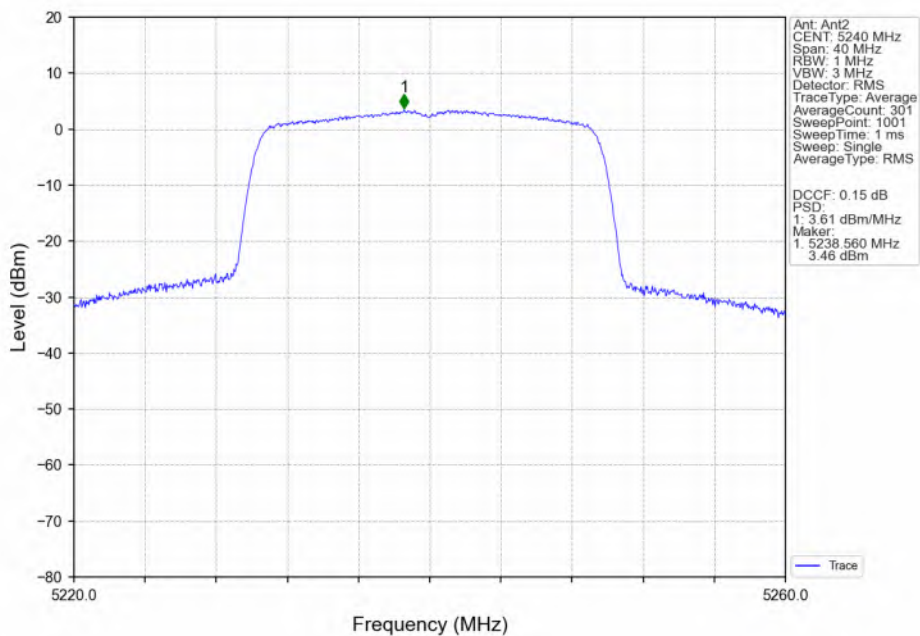


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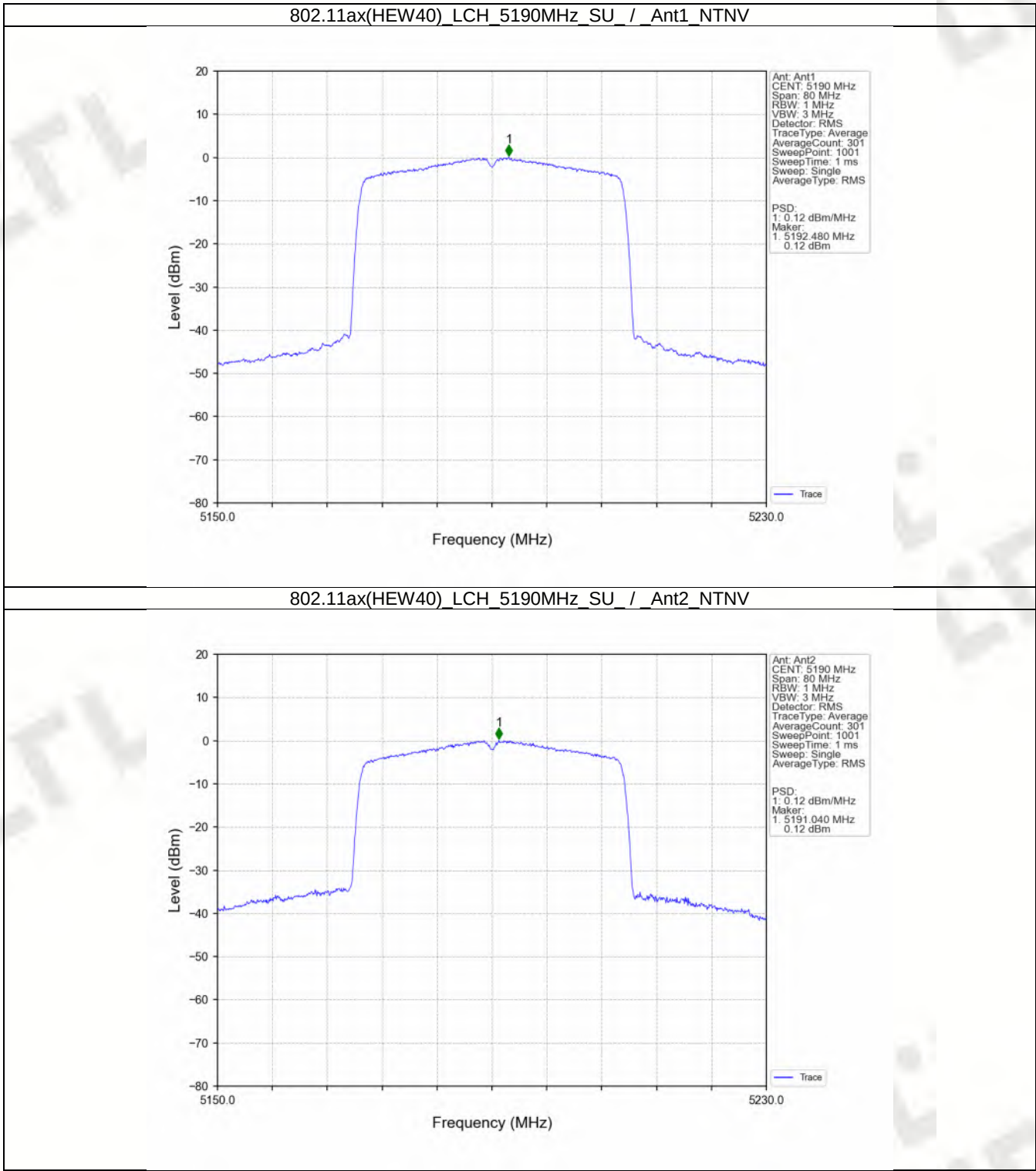
802.11ax(HEW20)_HCH_5240MHz_SU_ / Ant1_NTNV



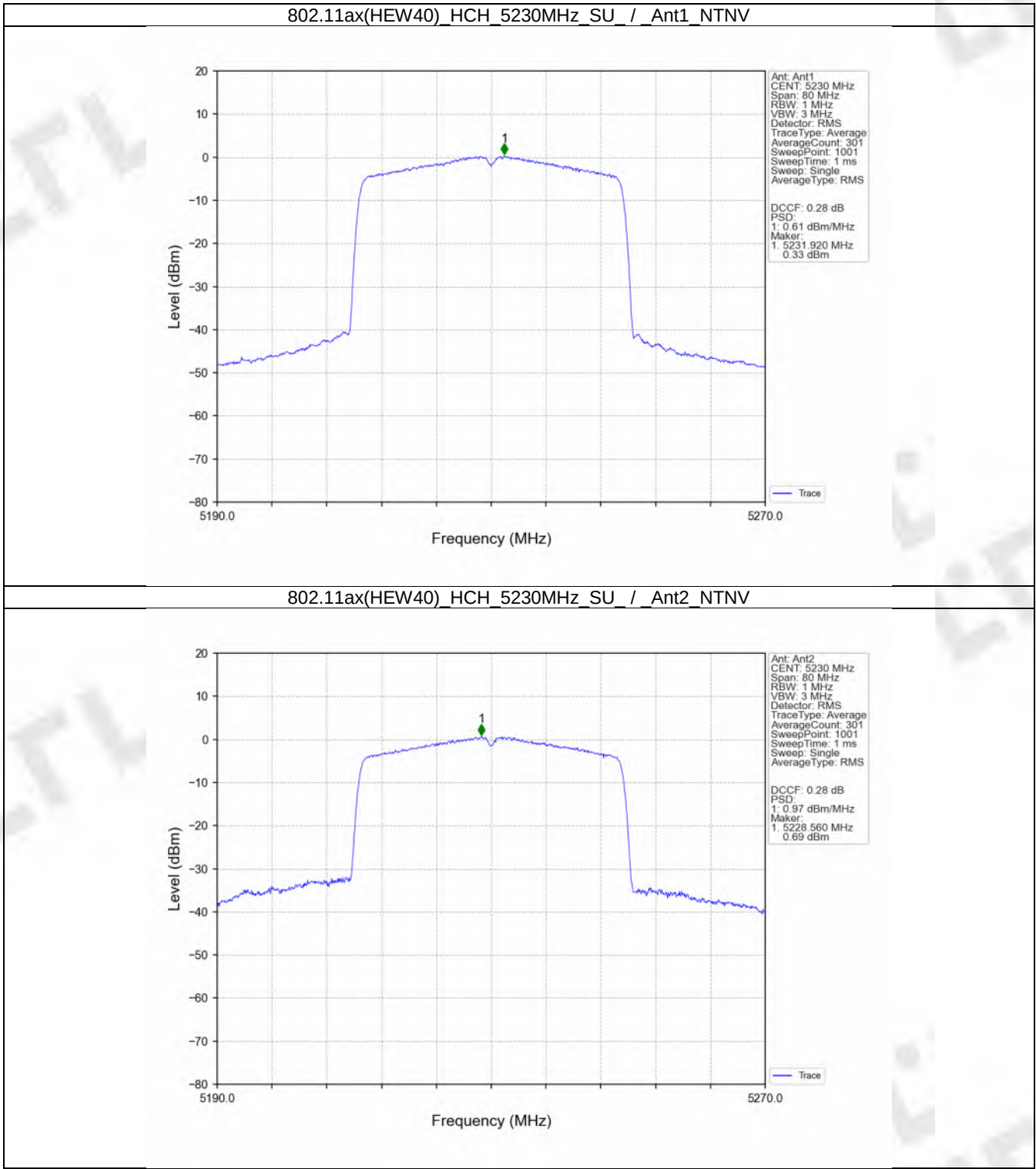
802.11ax(HEW20)_HCH_5240MHz_SU_ / Ant2_NTNV



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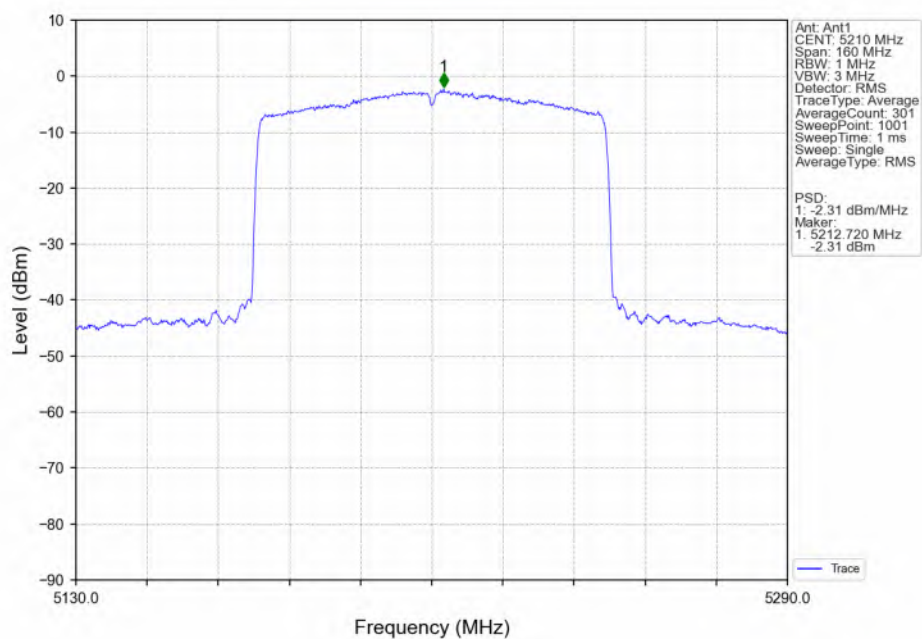


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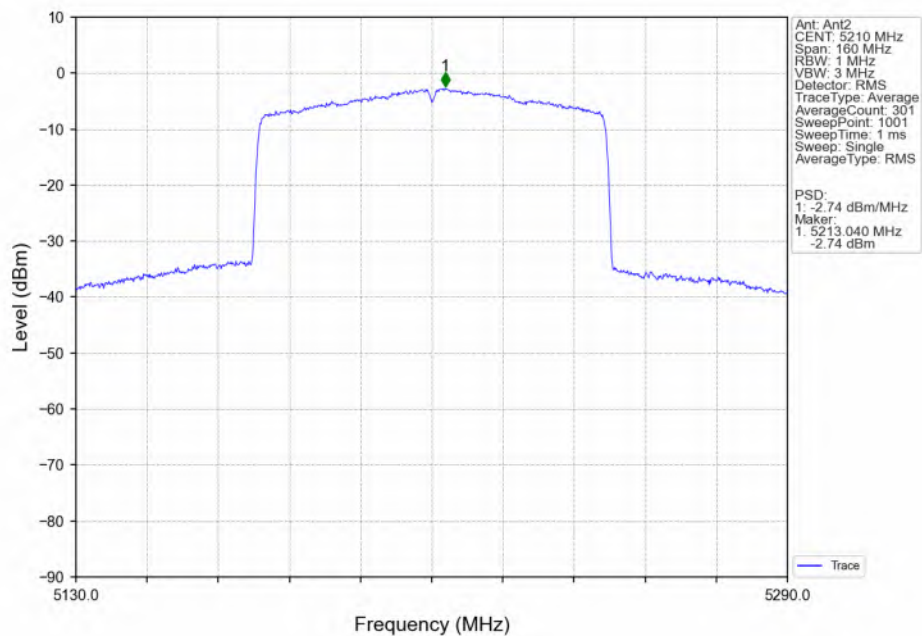


FCC ID: 2BLP-G7A1

802.11ax(HEW80)_MCH_5210MHz_SU_ / Ant1_NTNV



802.11ax(HEW80)_MCH_5210MHz_SU_ / Ant2_NTNV



FCC ID: 2BLP-G7A1

5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5179.919	5150 to 5250	Pass
				120	5179.919	5150 to 5250	Pass
				138	5179.919	5150 to 5250	Pass
			-30	120	5179.919	5150 to 5250	Pass
			-20	120	5179.919	5150 to 5250	Pass
			-10	120	5179.919	5150 to 5250	Pass
			0	120	5179.919	5150 to 5250	Pass
			10	120	5179.919	5150 to 5250	Pass
			30	120	5179.919	5150 to 5250	Pass
			40	120	5179.919	5150 to 5250	Pass
			50	120	5179.919	5150 to 5250	Pass
		5200	20	102	5199.918	5150 to 5250	Pass
				120	5199.919	5150 to 5250	Pass
				138	5199.919	5150 to 5250	Pass
			-30	120	5199.918	5150 to 5250	Pass
			-20	120	5199.919	5150 to 5250	Pass
			-10	120	5199.918	5150 to 5250	Pass
			0	120	5199.918	5150 to 5250	Pass
			10	120	5199.918	5150 to 5250	Pass
			30	120	5199.918	5150 to 5250	Pass
			40	120	5199.918	5150 to 5250	Pass
			50	120	5199.918	5150 to 5250	Pass
		5240	20	102	5239.918	5150 to 5250	Pass
				120	5239.918	5150 to 5250	Pass
				138	5239.918	5150 to 5250	Pass
			-30	120	5239.918	5150 to 5250	Pass
			-20	120	5239.918	5150 to 5250	Pass
			-10	120	5239.918	5150 to 5250	Pass
			0	120	5239.918	5150 to 5250	Pass
			10	120	5239.918	5150 to 5250	Pass
			30	120	5239.918	5150 to 5250	Pass
			40	120	5239.918	5150 to 5250	Pass
			50	120	5239.918	5150 to 5250	Pass
		5190	20	102	5189.919	5150 to 5250	Pass
				120	5189.919	5150 to 5250	Pass
				138	5189.919	5150 to 5250	Pass
			-30	120	5189.919	5150 to 5250	Pass
			-20	120	5189.919	5150 to 5250	Pass
			-10	120	5189.919	5150 to 5250	Pass
			0	120	5189.919	5150 to 5250	Pass
			10	120	5189.919	5150 to 5250	Pass
			30	120	5189.919	5150 to 5250	Pass
			40	120	5189.919	5150 to 5250	Pass
			50	120	5189.919	5150 to 5250	Pass

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		5230	20	102	5229.918	5150 to 5250	Pass
				120	5229.918	5150 to 5250	Pass
				138	5229.918	5150 to 5250	Pass
			-30	120	5229.918	5150 to 5250	Pass
			-20	120	5229.918	5150 to 5250	Pass
			-10	120	5229.918	5150 to 5250	Pass
			0	120	5229.918	5150 to 5250	Pass
			10	120	5229.918	5150 to 5250	Pass
			30	120	5229.918	5150 to 5250	Pass
			40	120	5229.918	5150 to 5250	Pass
			50	120	5229.918	5150 to 5250	Pass
		5210	20	102	5209.918	5150 to 5250	Pass
				120	5209.918	5150 to 5250	Pass
				138	5209.918	5150 to 5250	Pass
			-30	120	5209.918	5150 to 5250	Pass
			-20	120	5209.918	5150 to 5250	Pass
			-10	120	5209.918	5150 to 5250	Pass
			0	120	5209.918	5150 to 5250	Pass
			10	120	5209.918	5150 to 5250	Pass
			30	120	5209.918	5150 to 5250	Pass
			40	120	5209.918	5150 to 5250	Pass
			50	120	5209.919	5150 to 5250	Pass