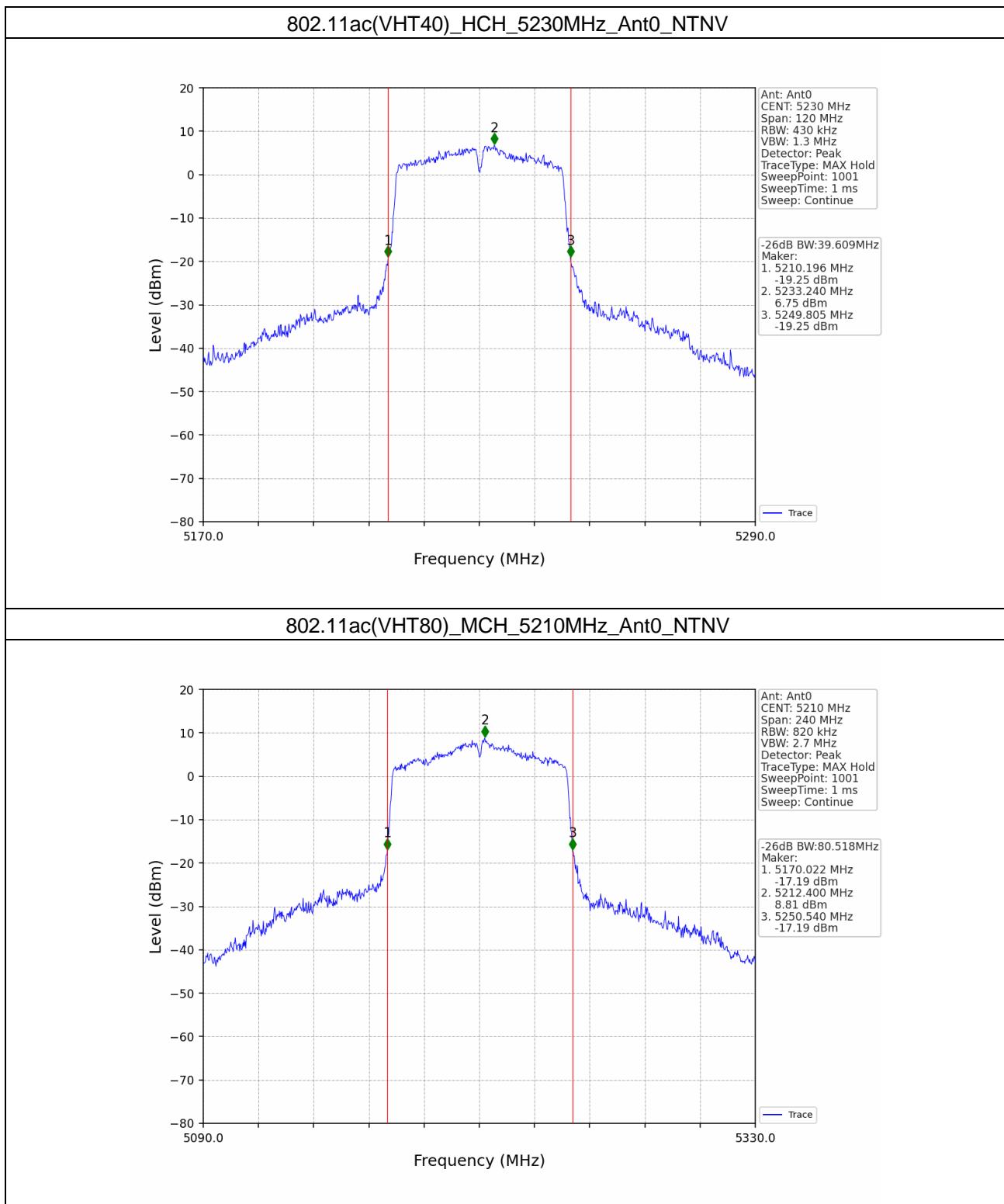
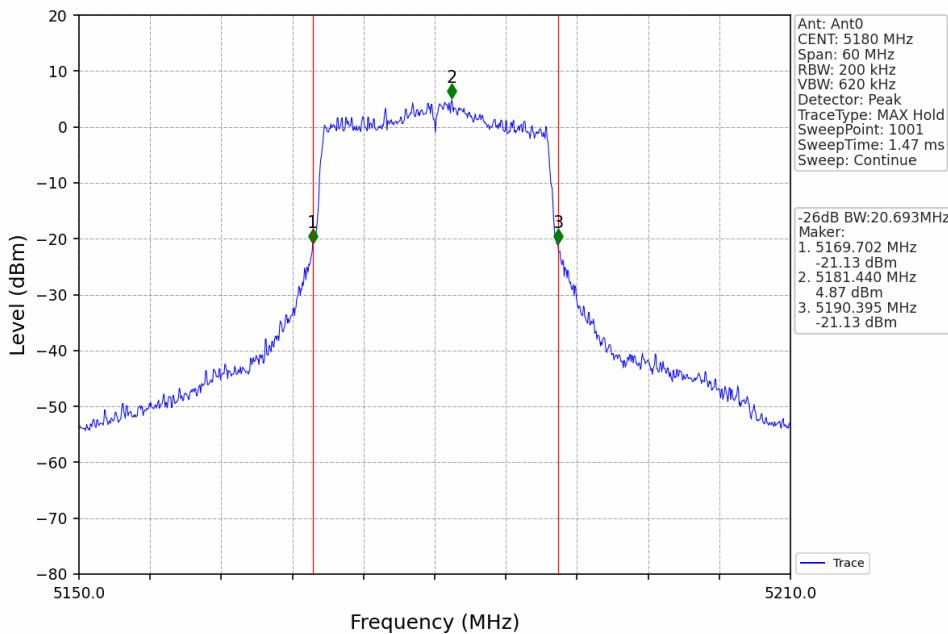
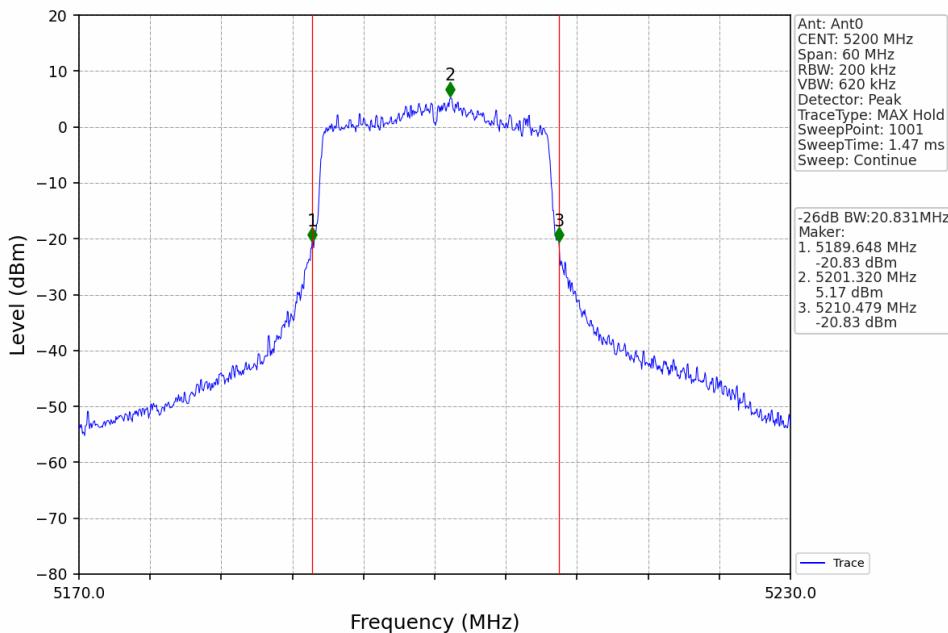


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**802.11ax(HEW20)\_LCH\_5180MHz\_RU242\_Left\_Ant0\_NTNV****802.11ax(HEW20)\_MCH\_5200MHz\_RU242\_Left\_Ant0\_NTNV**

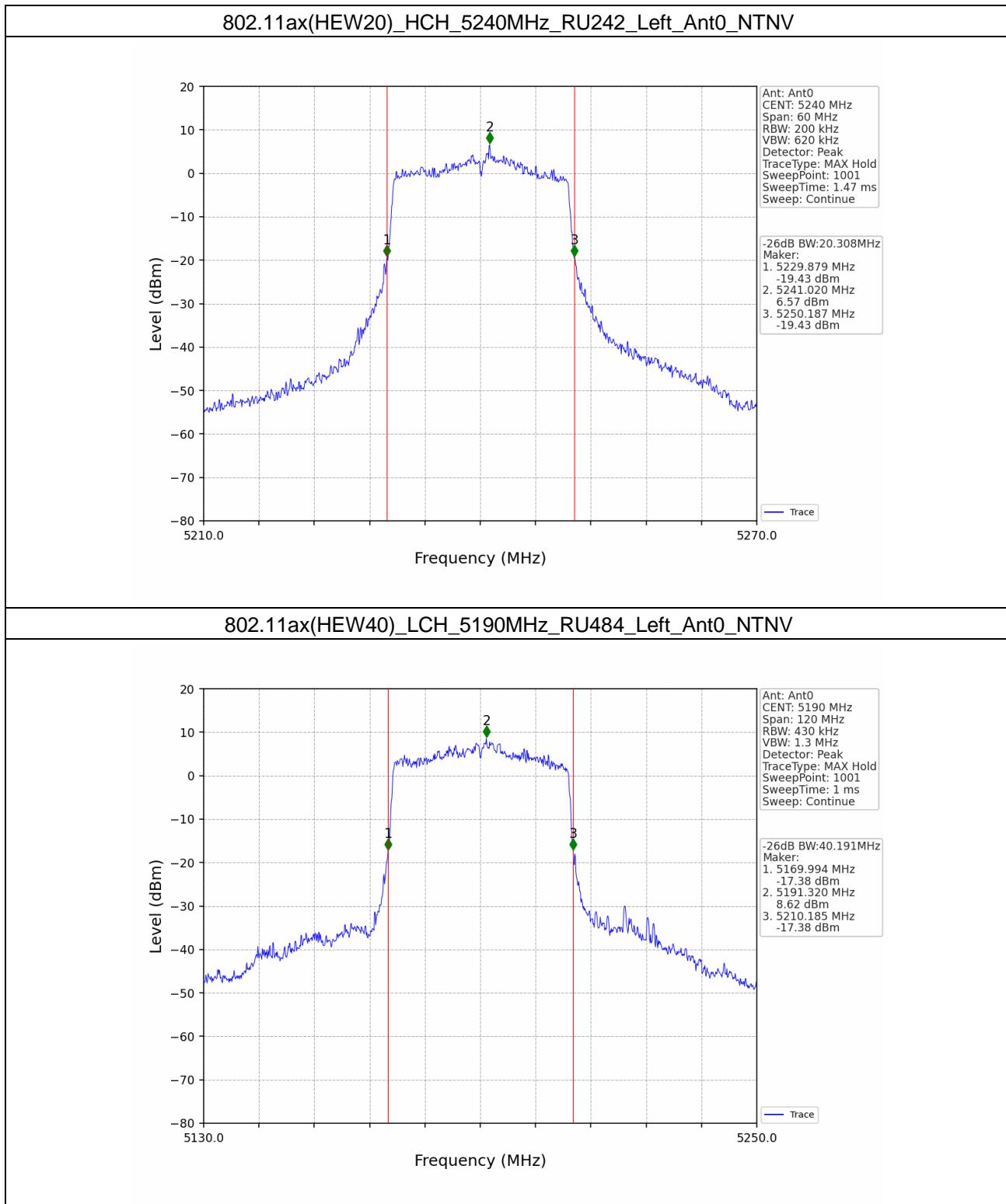
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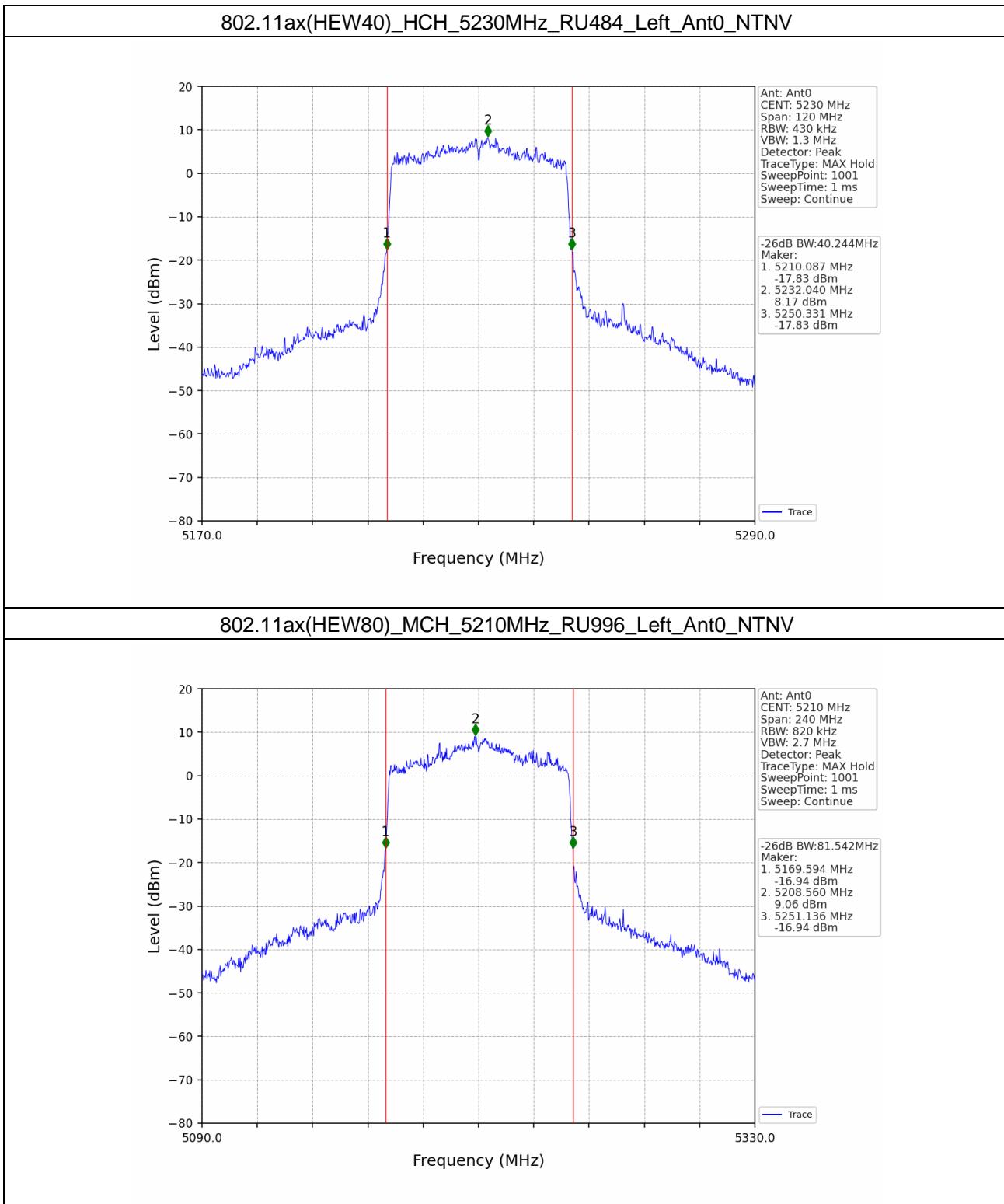
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
					ANT0	ANT1	MIMO	Limit	
802.11a	SISO	5180	/	/	15.37	17.63	/	<=23.98	Pass
		5200	/	/	15.28	16.60	/	<=23.98	Pass
		5240	/	/	15.60	17.35	/	<=23.98	Pass
		5745	/	/	14.24	16.10	/	<=30	Pass
		5785	/	/	15.60	16.85	/	<=30	Pass
		5825	/	/	15.55	18.57	/	<=30	Pass
802.11n (HT20)	MIMO	5180	/	/	12.64	15.80	17.51	<=23.98	Pass
		5200	/	/	12.55	15.92	17.56	<=23.98	Pass
		5240	/	/	11.95	15.85	17.33	<=23.98	Pass
		5745	/	/	12.04	13.84	16.04	<=30	Pass
		5785	/	/	14.61	14.75	17.69	<=30	Pass
		5825	/	/	14.17	14.96	17.59	<=30	Pass
802.11n (HT40)	MIMO	5190	/	/	14.84	17.83	19.60	<=23.98	Pass
		5230	/	/	14.78	18.41	19.97	<=23.98	Pass
		5755	/	/	13.22	14.36	16.84	<=30	Pass
		5795	/	/	14.32	14.15	17.25	<=30	Pass
802.11ac (VHT20)	MIMO	5180	/	/	11.57	15.09	16.69	<=23.98	Pass
		5200	/	/	11.75	15.20	16.82	<=23.98	Pass
		5240	/	/	10.82	14.96	16.38	<=23.98	Pass
		5745	/	/	12.59	14.72	16.79	<=30	Pass
		5785	/	/	14.10	15.37	17.79	<=30	Pass
		5825	/	/	14.17	15.08	17.66	<=30	Pass
802.11ac (VHT40)	MIMO	5190	/	/	12.67	18.79	19.74	<=23.98	Pass
		5230	/	/	15.79	19.12	20.78	<=23.98	Pass
		5755	/	/	16.08	4.66	16.38	<=30	Pass
		5795	/	/	13.80	14.56	17.21	<=30	Pass
802.11ac (VHT80)	MIMO	5210	/	/	14.49	17.64	19.35	<=23.98	Pass
		5775	/	/	12.87	13.98	16.47	<=30	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	12.72	16.24	17.84	<=23.98	Pass
		5200	RU242	Left	11.95	15.42	17.03	<=23.98	Pass
		5240	RU242	Left	12.43	15.88	17.50	<=23.98	Pass

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

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		5745	RU242	Left	13.11	15.17	17.27	<=30	Pass
		5785	RU242	Left	14.32	15.32	17.86	<=30	Pass
		5825	RU242	Left	13.67	14.70	17.23	<=30	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	14.62	18.14	19.74	<=23.98	Pass
		5230	RU484	Left	15.05	18.31	19.99	<=23.98	Pass
		5755	RU484	Left	12.62	14.30	16.55	<=30	Pass
		5795	RU484	Left	14.13	15.00	17.60	<=30	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	15.12	18.13	19.89	<=23.98	Pass
		5775	RU996	Left	13.53	14.62	17.12	<=30	Pass

Note1: Antenna Gain (U-NII-1): ANT0: 4dBi; ANT1: 1dBi

Directional gain (dBi) for U-NII-1 = gain of individual transmit antennas (dBi) + array gain (dB)=4dBi

Array Gain = 0 dB for  $N_{ANT} \leq 4$ 

Note2: Antenna Gain (U-NII-3): ANT0: 5dBi; ANT1: 3.5dBi

directional gain (dBi) for U-NII-3 = gain of individual transmit antennas (dBi) + array gain (dB)=5dBi

Array Gain = 0 dB for  $N_{ANT} \leq 4$ 

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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
					ANT0	ANT1	MIMO	Limit	
802.11a	SISO	5180	/	/	5.49	7.78	/	<=11	Pass
		5200	/	/	5.53	6.74	/	<=11	Pass
		5240	/	/	5.73	7.50	/	<=11	Pass
802.11n (HT20)	MIMO	5180	/	/	2.82	5.74	7.38	<=9.99	Pass
		5200	/	/	2.90	5.87	7.51	<=9.99	Pass
		5240	/	/	2.14	5.82	7.29	<=9.99	Pass
802.11n (HT40)	MIMO	5190	/	/	2.35	4.96	6.76	<=9.99	Pass
		5230	/	/	2.12	5.61	7.08	<=9.99	Pass
802.11ac (VHT20)	MIMO	5180	/	/	1.83	4.98	6.60	<=9.99	Pass
		5200	/	/	1.90	5.23	6.73	<=9.99	Pass
		5240	/	/	0.92	4.92	6.28	<=9.99	Pass
802.11ac (VHT40)	MIMO	5190	/	/	2.96	5.91	7.50	<=9.99	Pass
		5230	/	/	0.59	6.26	7.16	<=9.99	Pass
802.11ac (VHT80)	MIMO	5210	/	/	-0.46	2.23	4.10	<=9.99	Pass
802.11ax (HEW20)	MIMO	5180	RU242	Left	2.82	6.00	7.61	<=9.99	Pass
		5200	RU242	Left	2.21	5.13	6.89	<=9.99	Pass
		5240	RU242	Left	2.57	5.65	7.17	<=9.99	Pass
802.11ax (HEW40)	MIMO	5190	RU484	Left	1.96	5.03	6.67	<=9.99	Pass
		5230	RU484	Left	2.32	5.35	7.02	<=9.99	Pass
802.11ax (HEW80)	MIMO	5210	RU996	Left	0.02	2.55	4.44	<=9.99	Pass

Note1: Antenna Gain (U-NII-1): ANT0: 4dBi; ANT1: 1dBi

Directional gain (dBi) for U-NII-1 = gain of individual transmit antennas (dBi) + array gain (dB)=7.01dBi

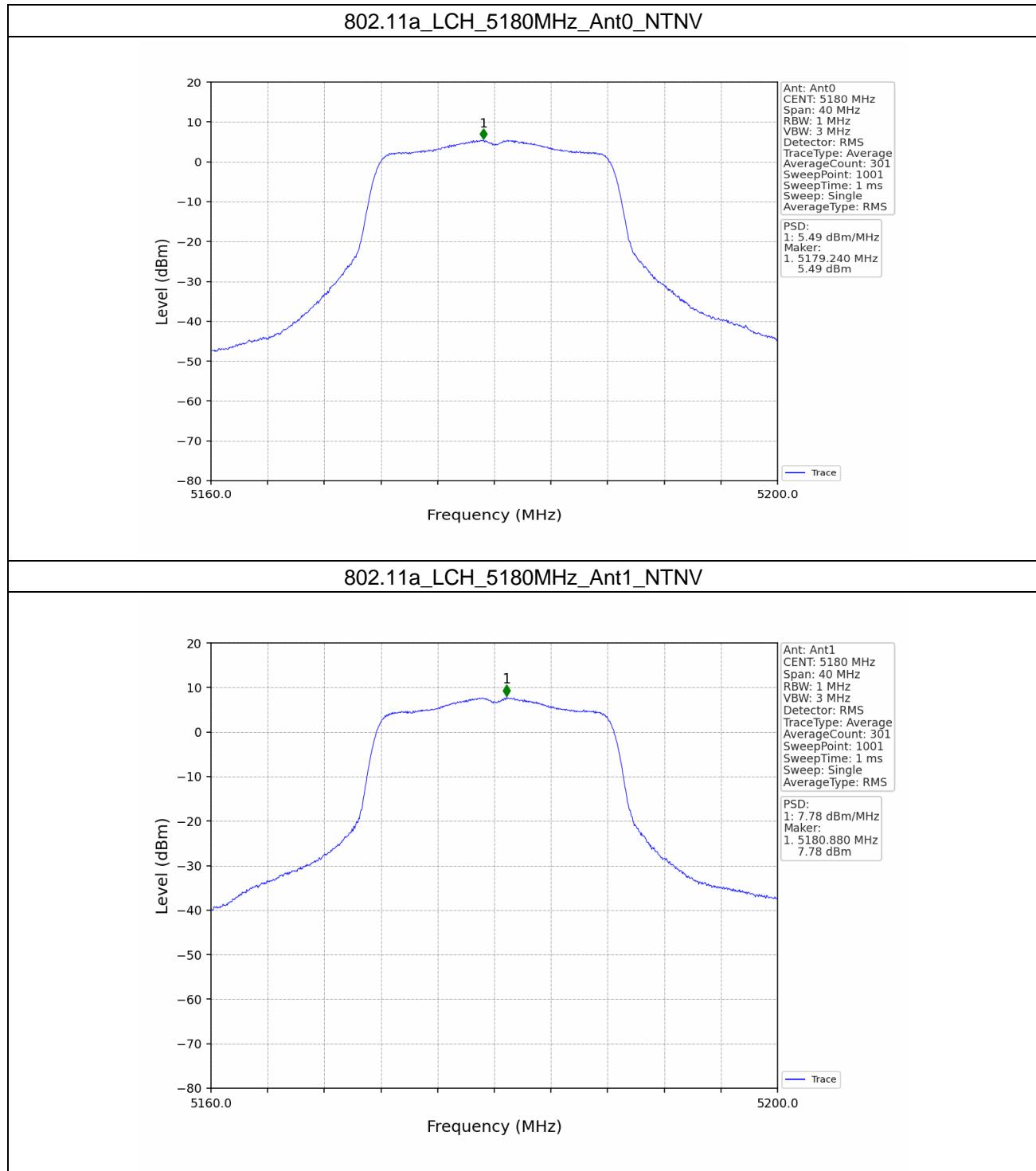
Array gain =  $10 \log(N_{ANT})$ , where  $N_{ANT}$  is the number of transmit antennas

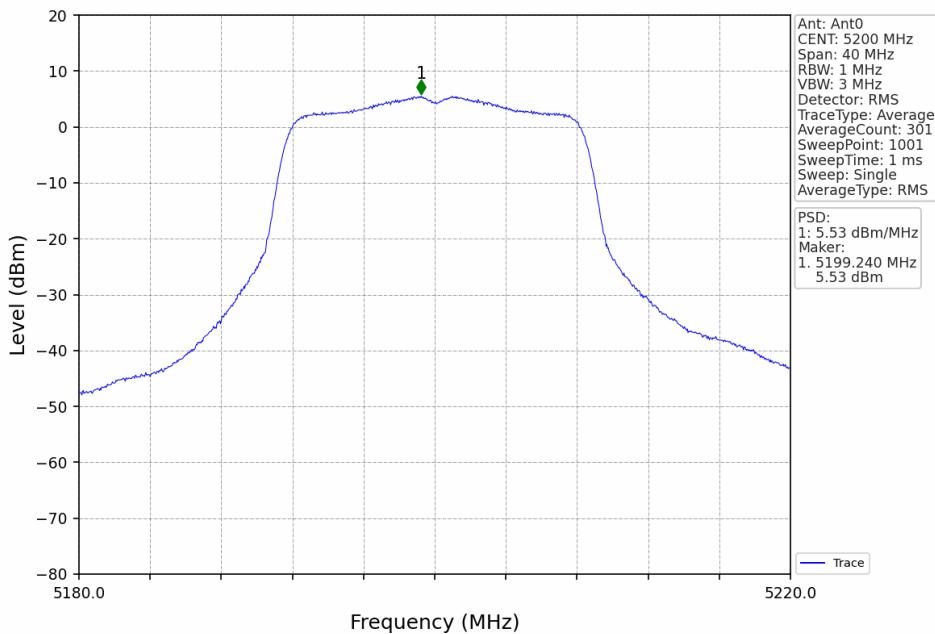
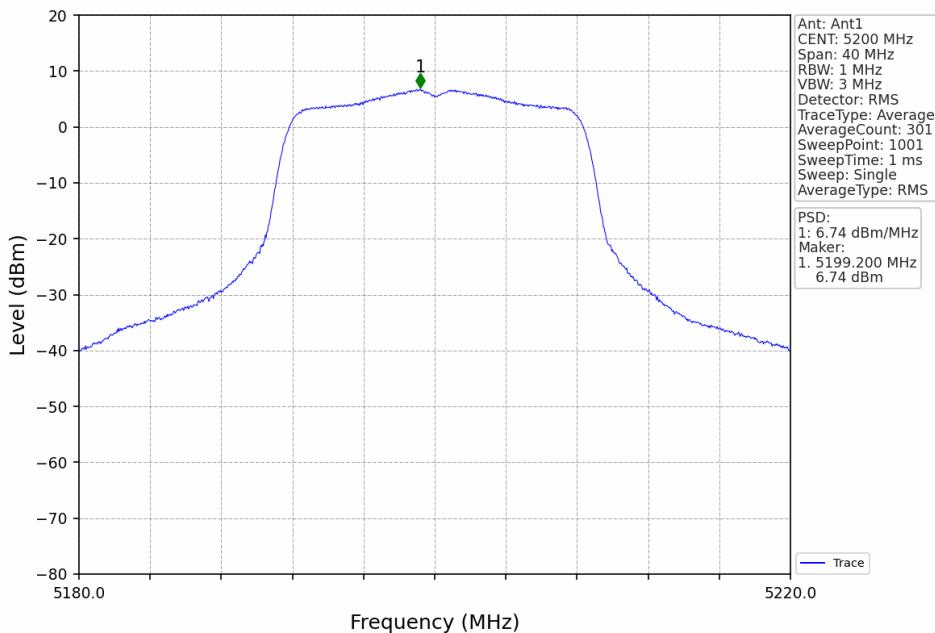
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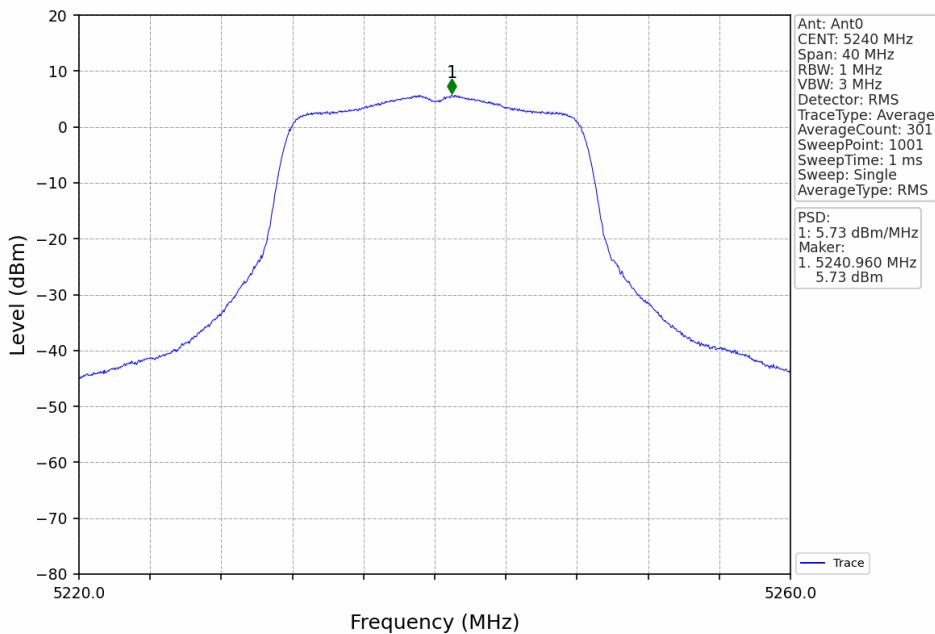
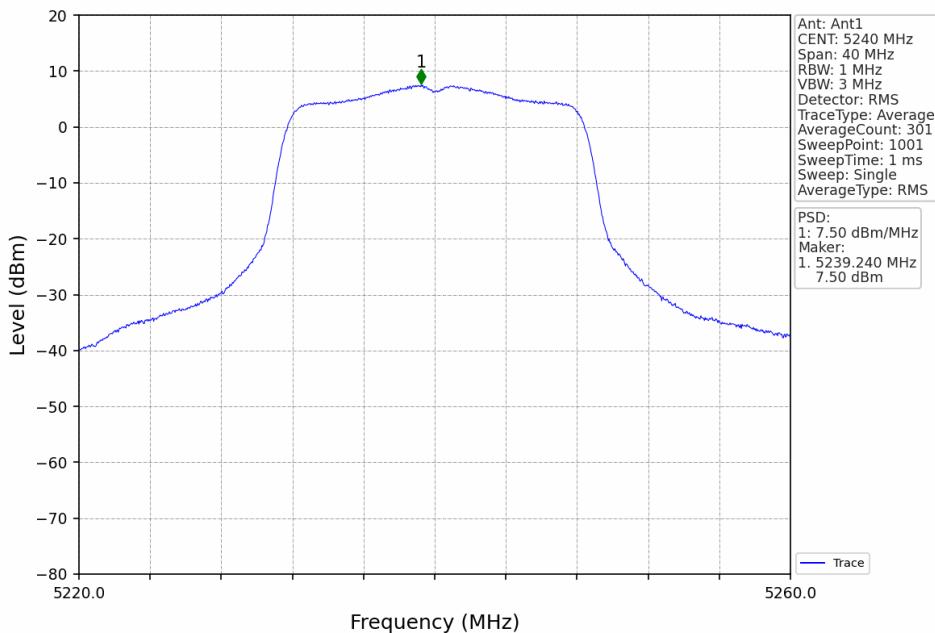
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**4.1.2 Test Graph**

**802.11a\_MCH\_5200MHz\_Ant0\_NTNV****802.11a\_MCH\_5200MHz\_Ant1\_NTNV**

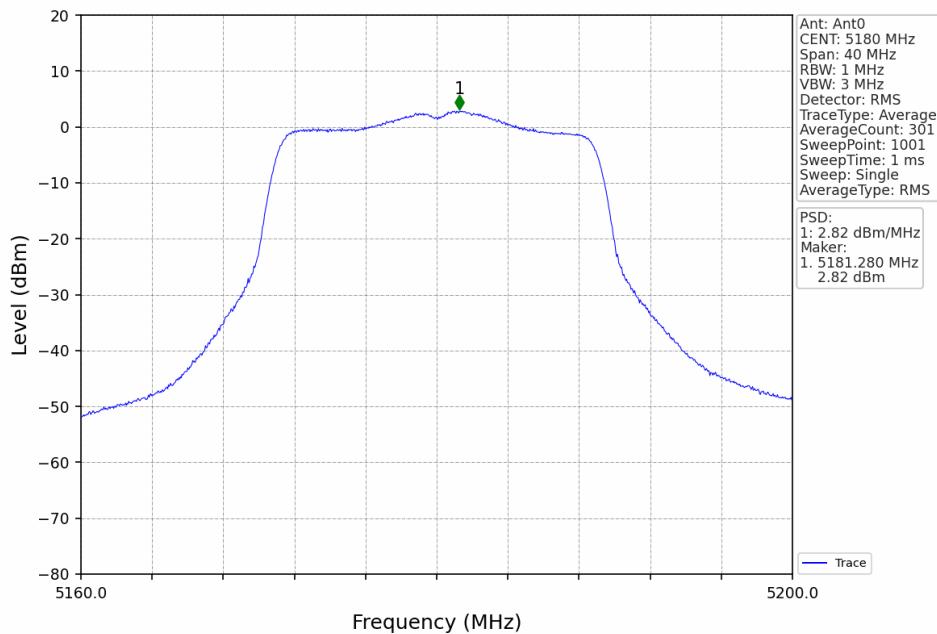
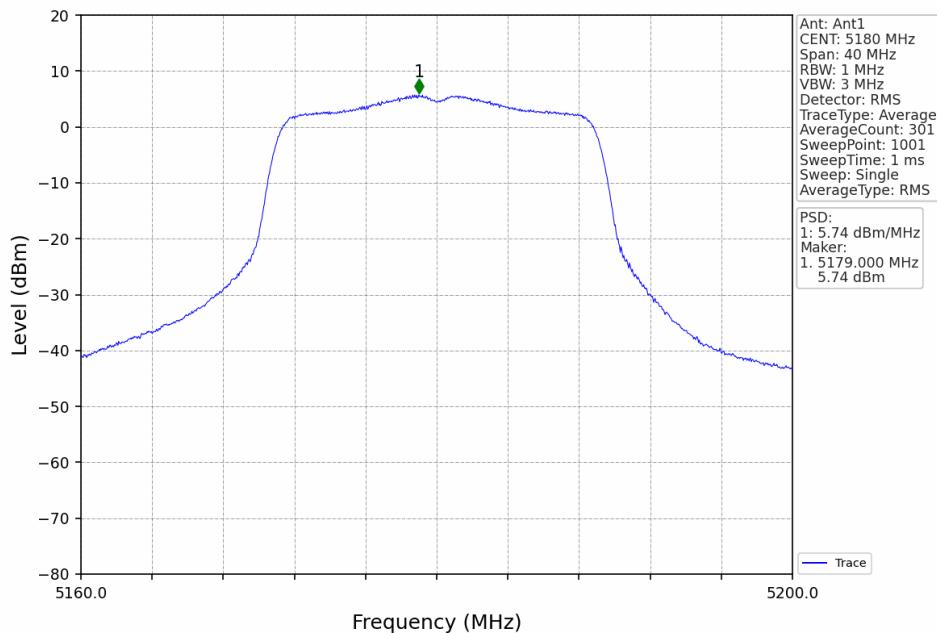
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**802.11a\_HCH\_5240MHz\_Ant0\_NTNV****802.11a\_HCH\_5240MHz\_Ant1\_NTNV**

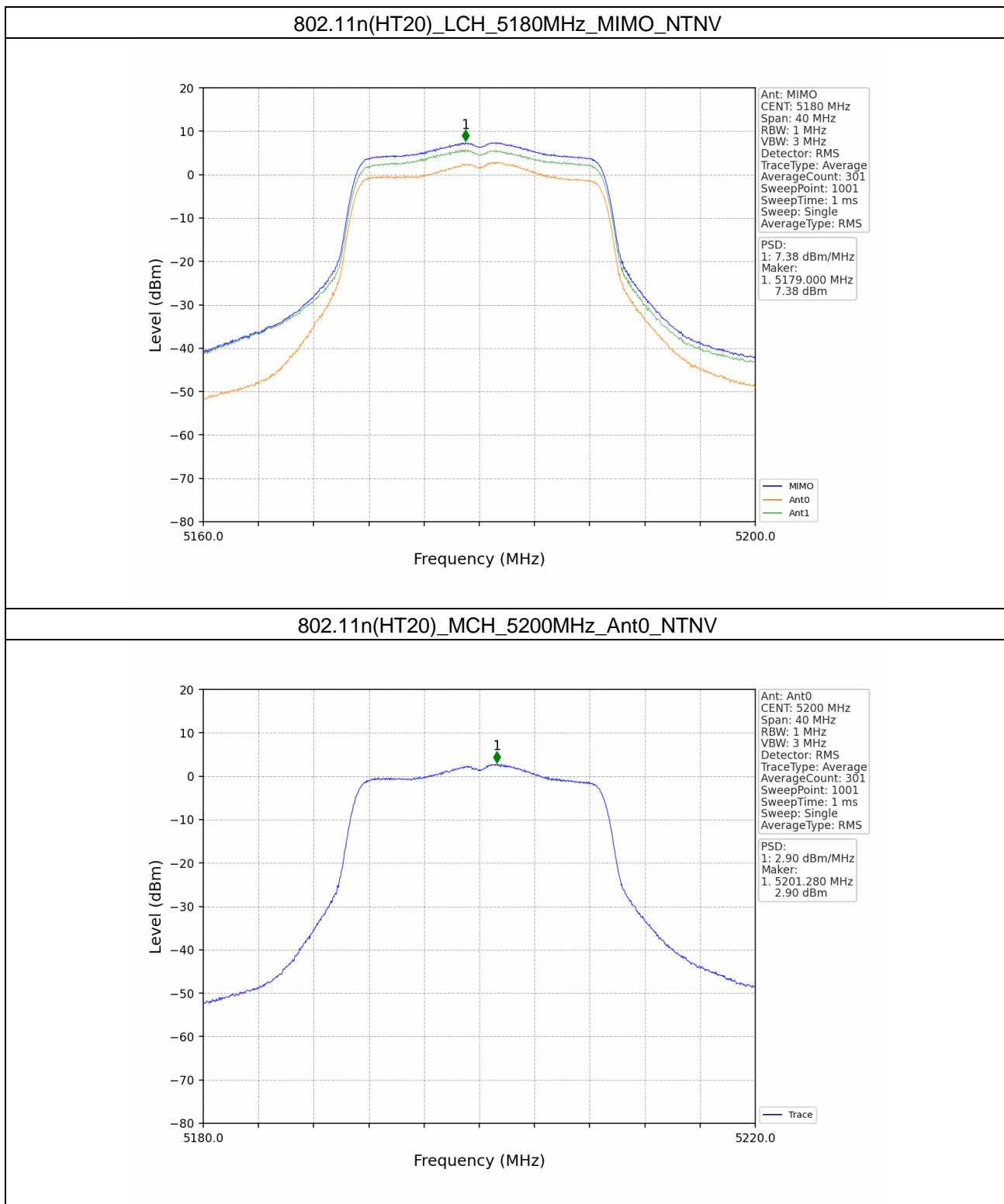
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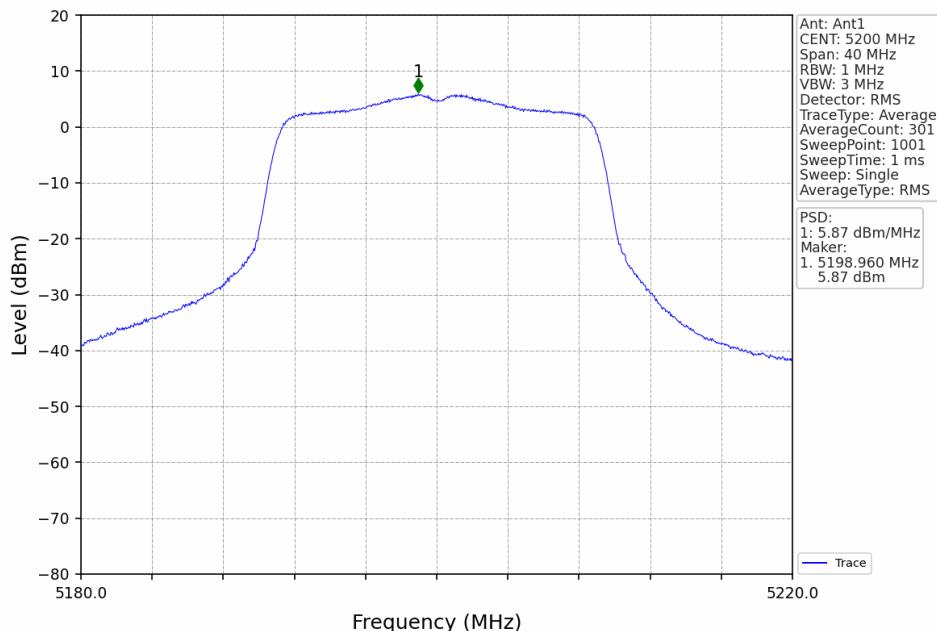
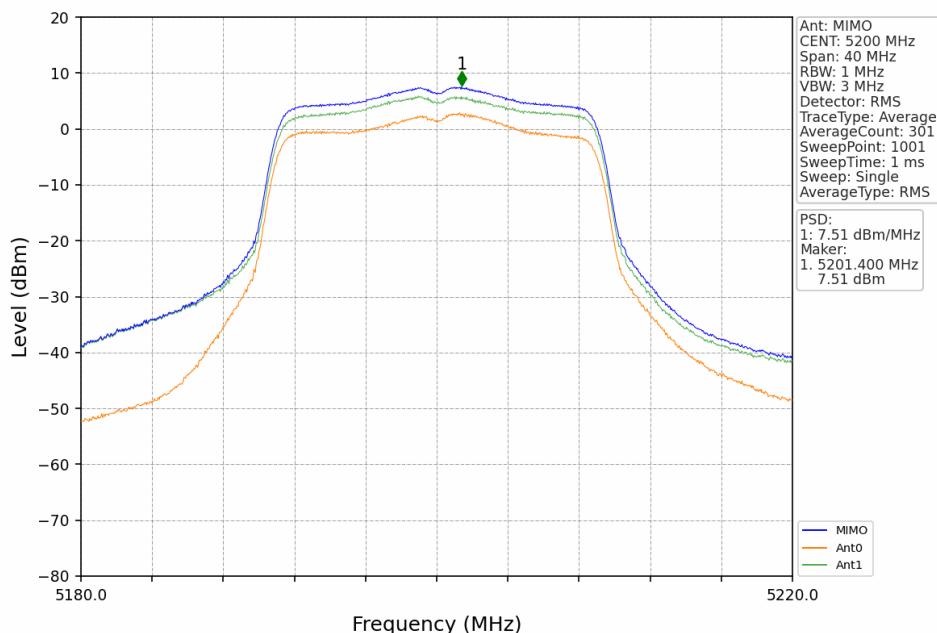
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**802.11n(HT20)\_LCH\_5180MHz\_Ant0\_NTNV****802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV**

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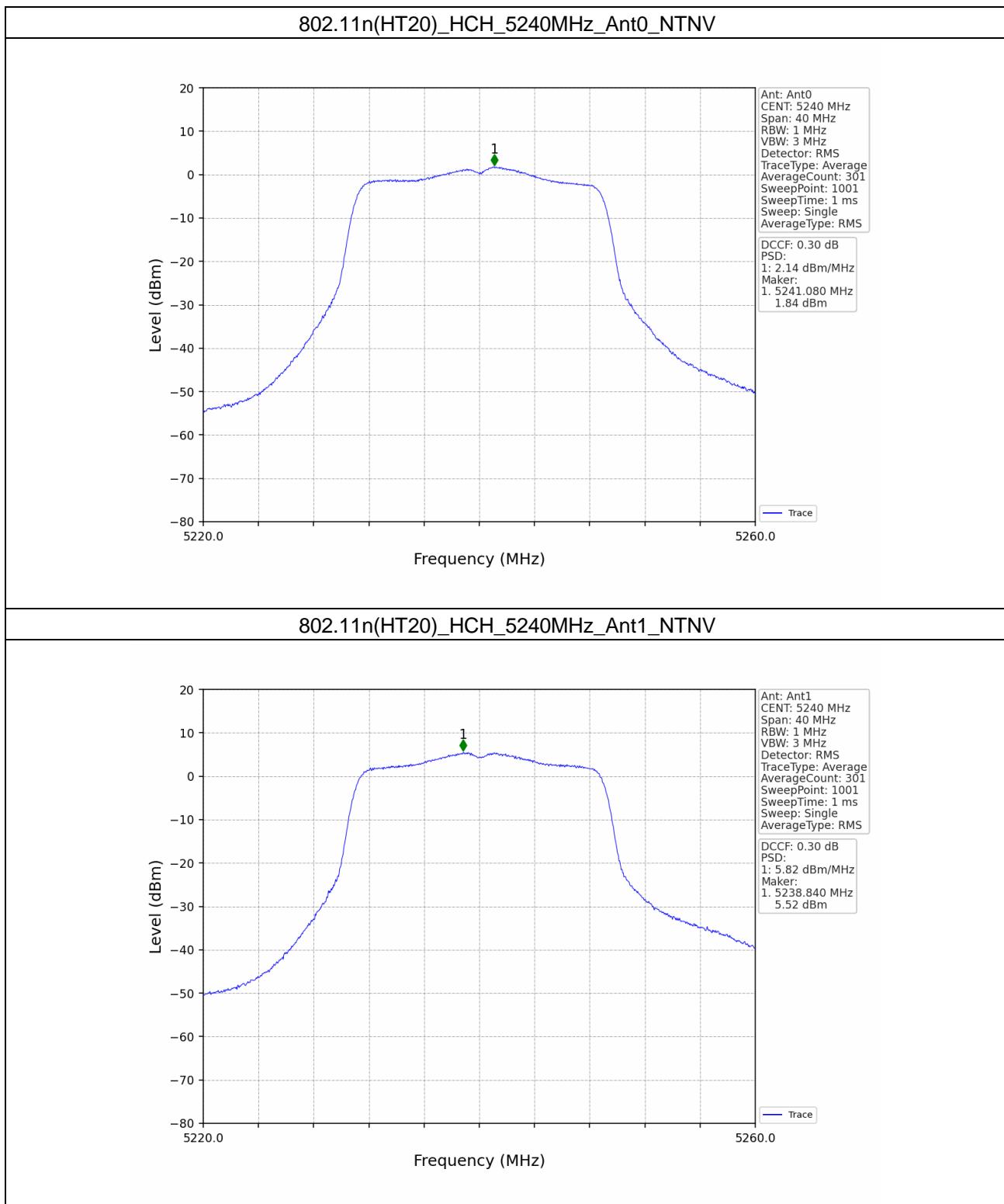
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**802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV****802.11n(HT20)\_MCH\_5200MHz\_MIMO\_NTNV**

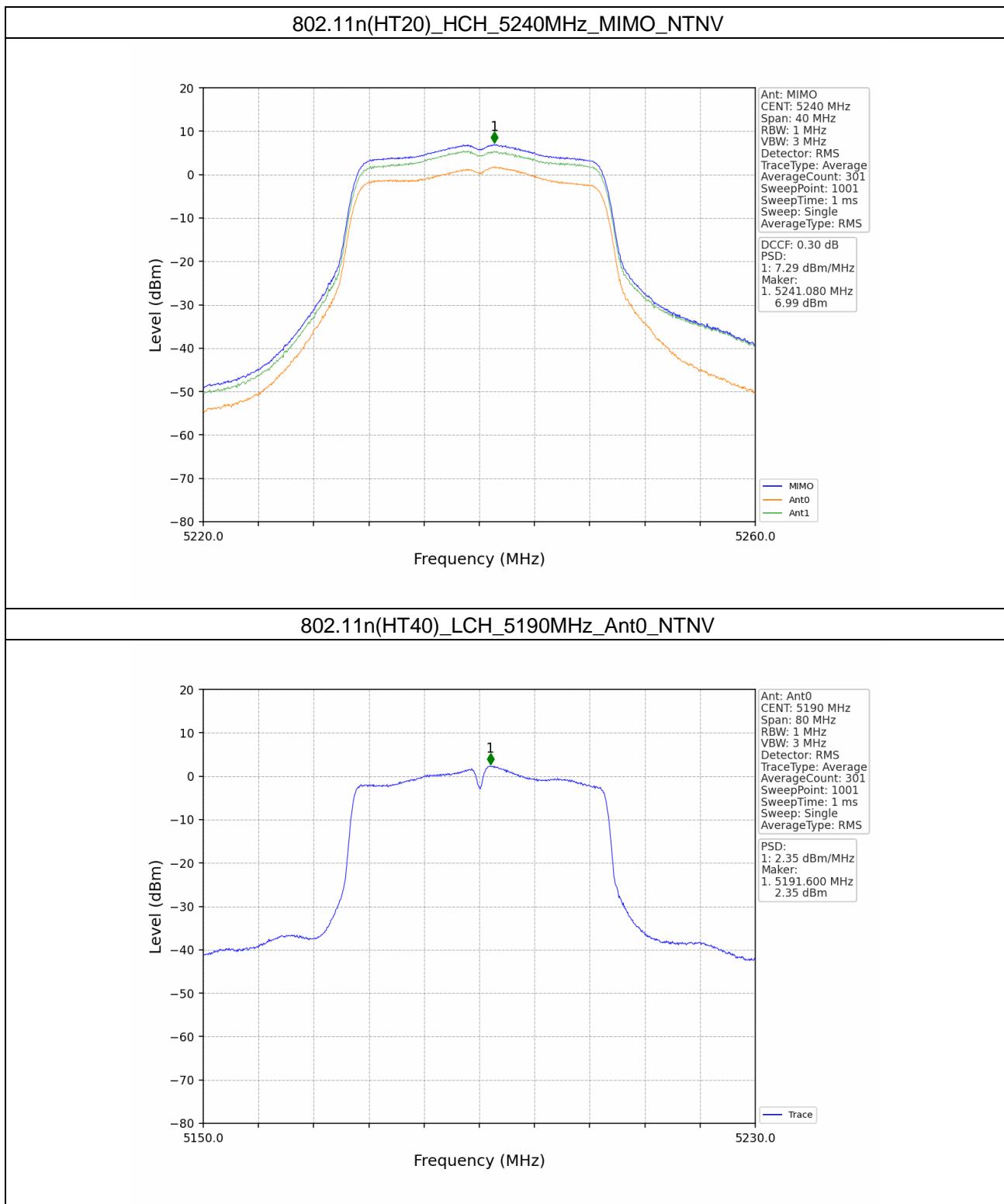
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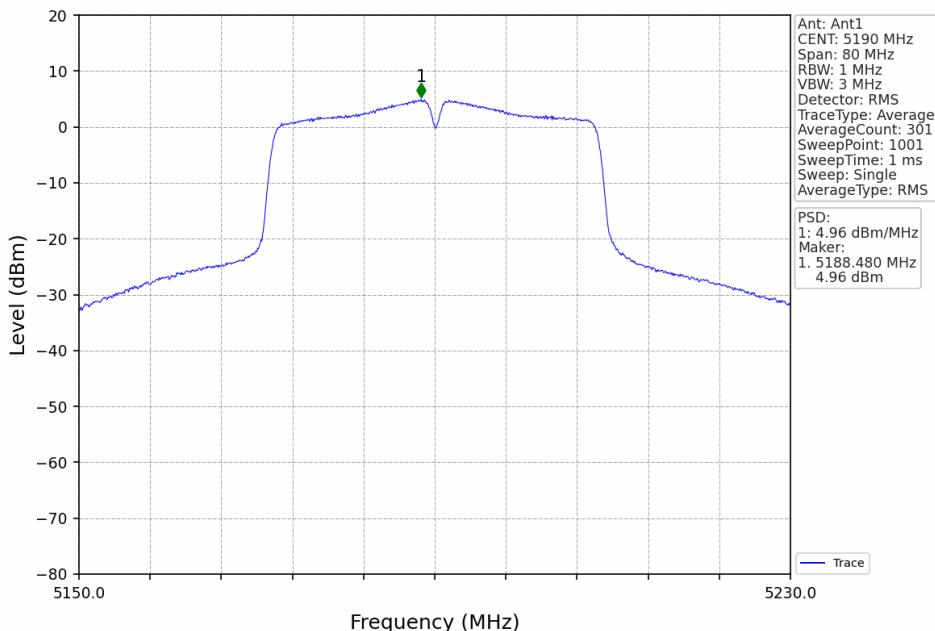
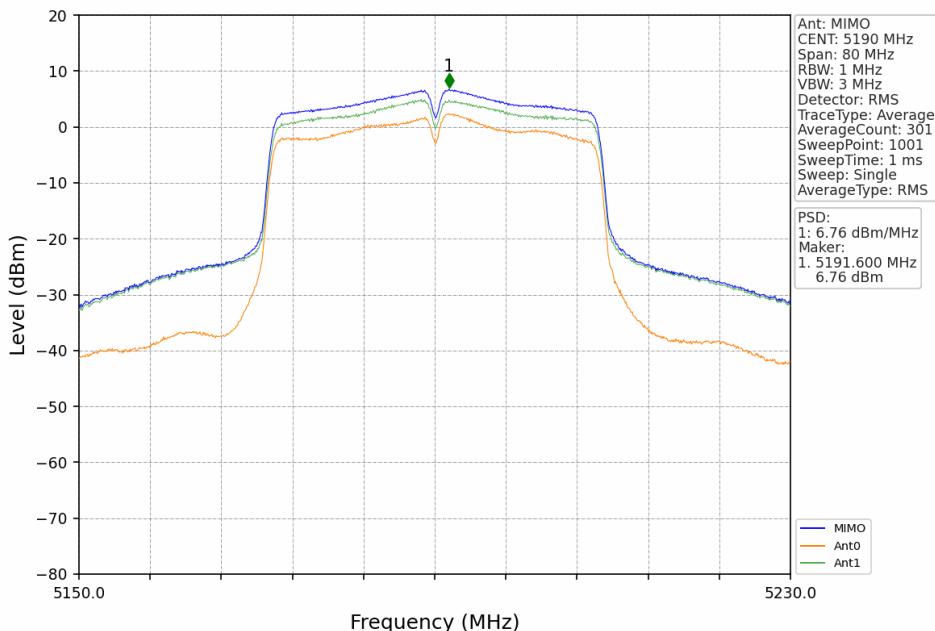
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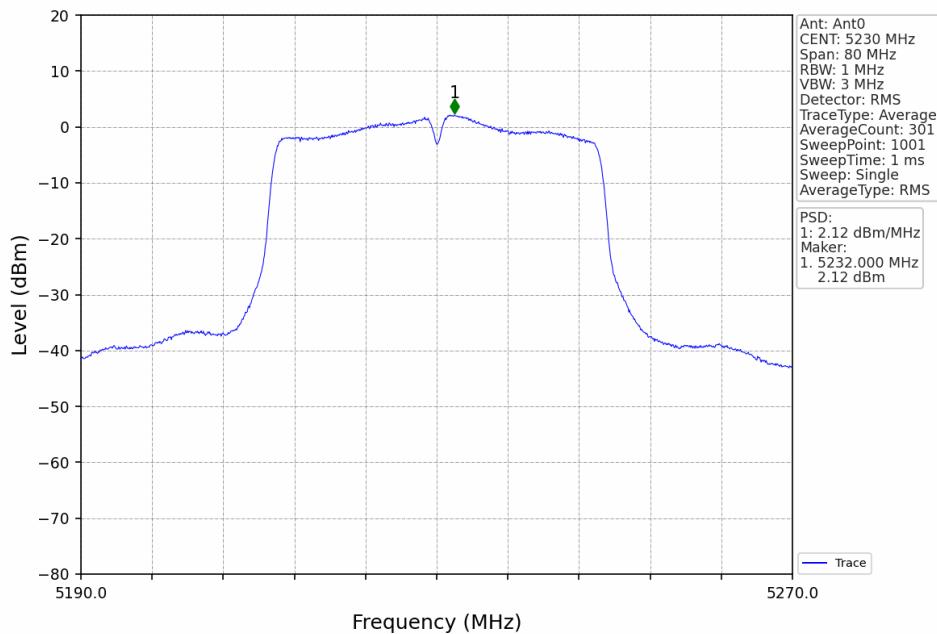
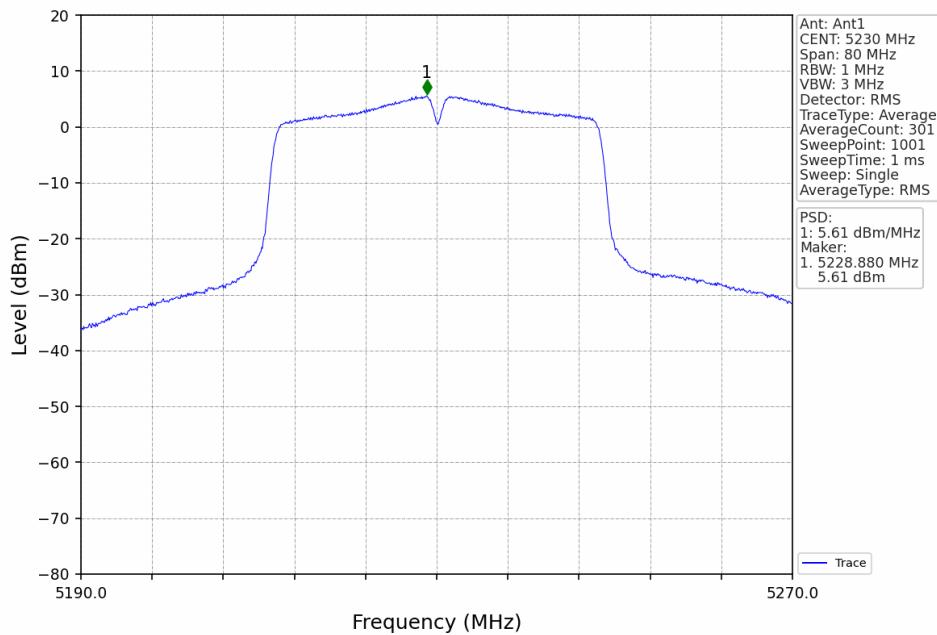
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**802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV****802.11n(HT40)\_LCH\_5190MHz\_MIMO\_NTNV**

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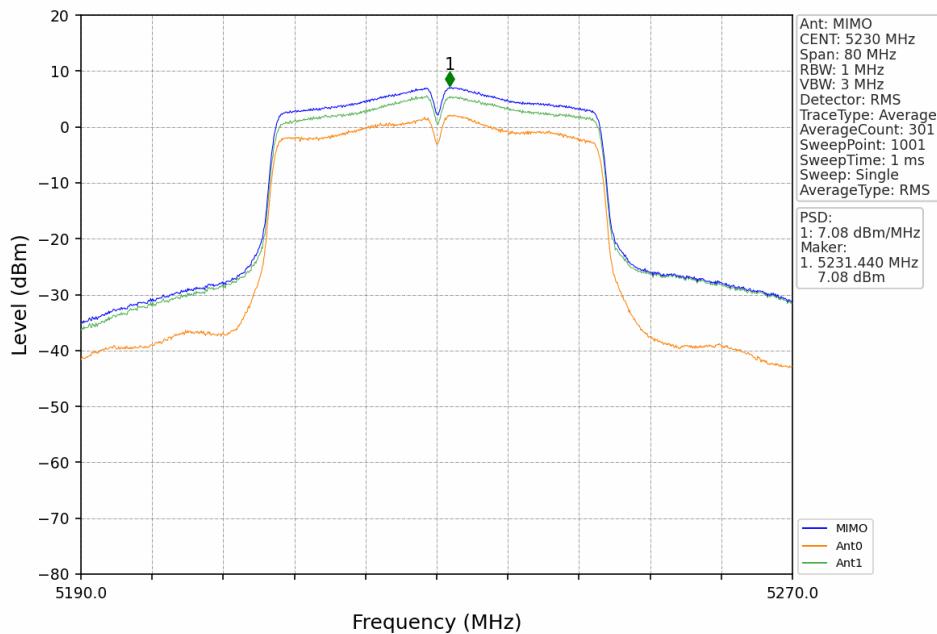
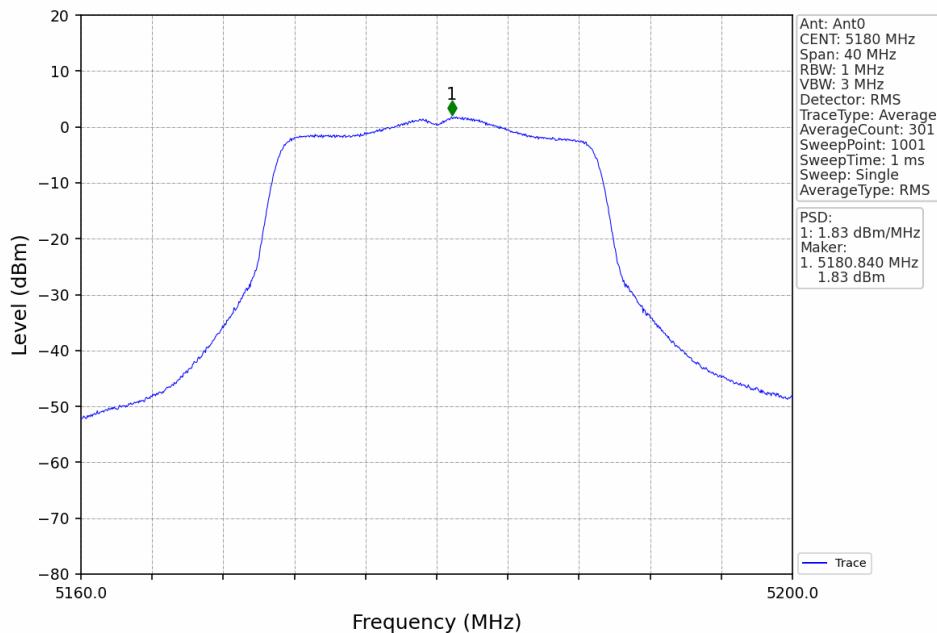
**802.11n(HT40)\_HCH\_5230MHz\_Ant0\_NTNV****802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV**

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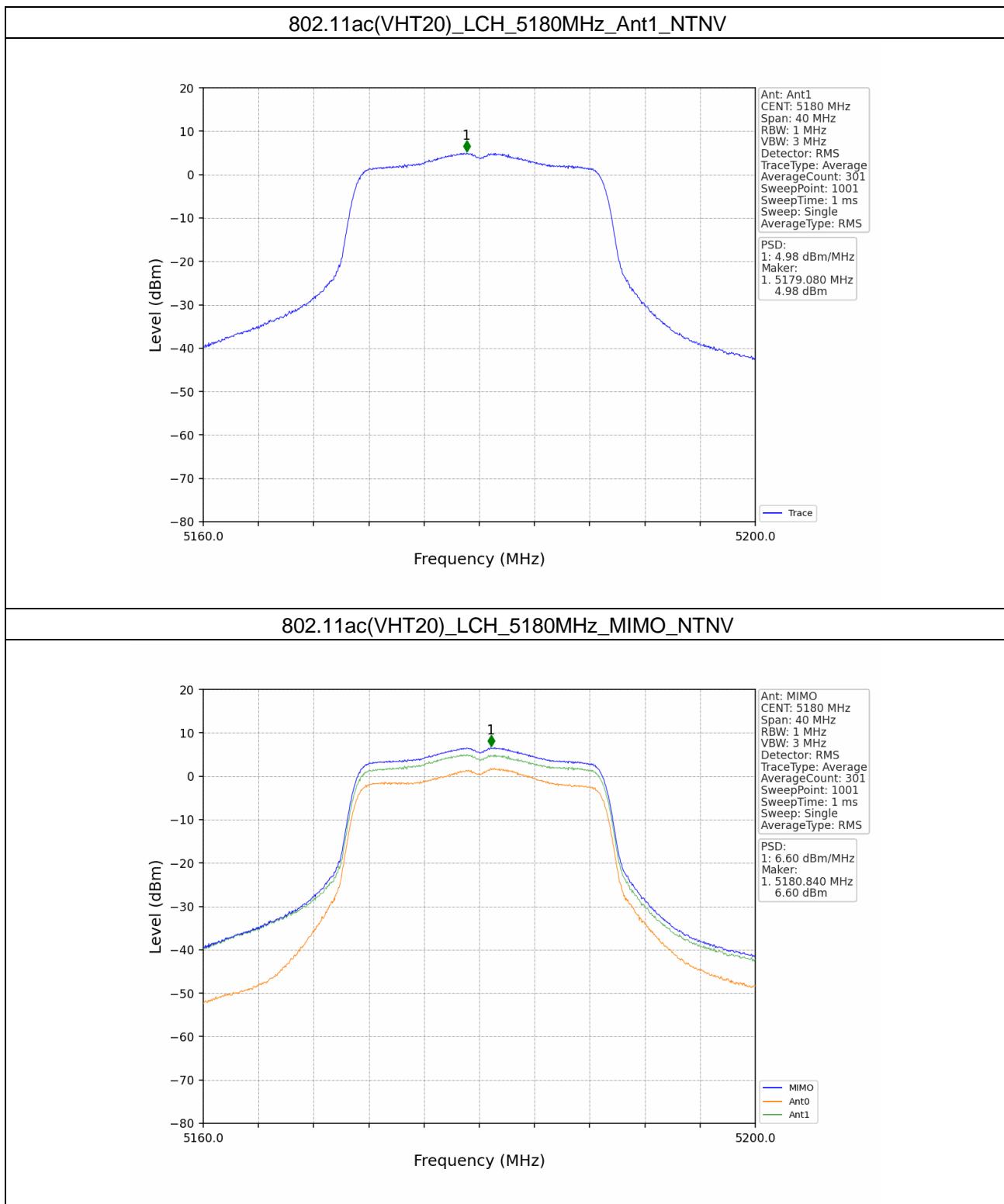
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**802.11n(HT40)\_HCH\_5230MHz\_MIMO\_NTNV****802.11ac(VHT20)\_LCH\_5180MHz\_Ant0\_NTNV**

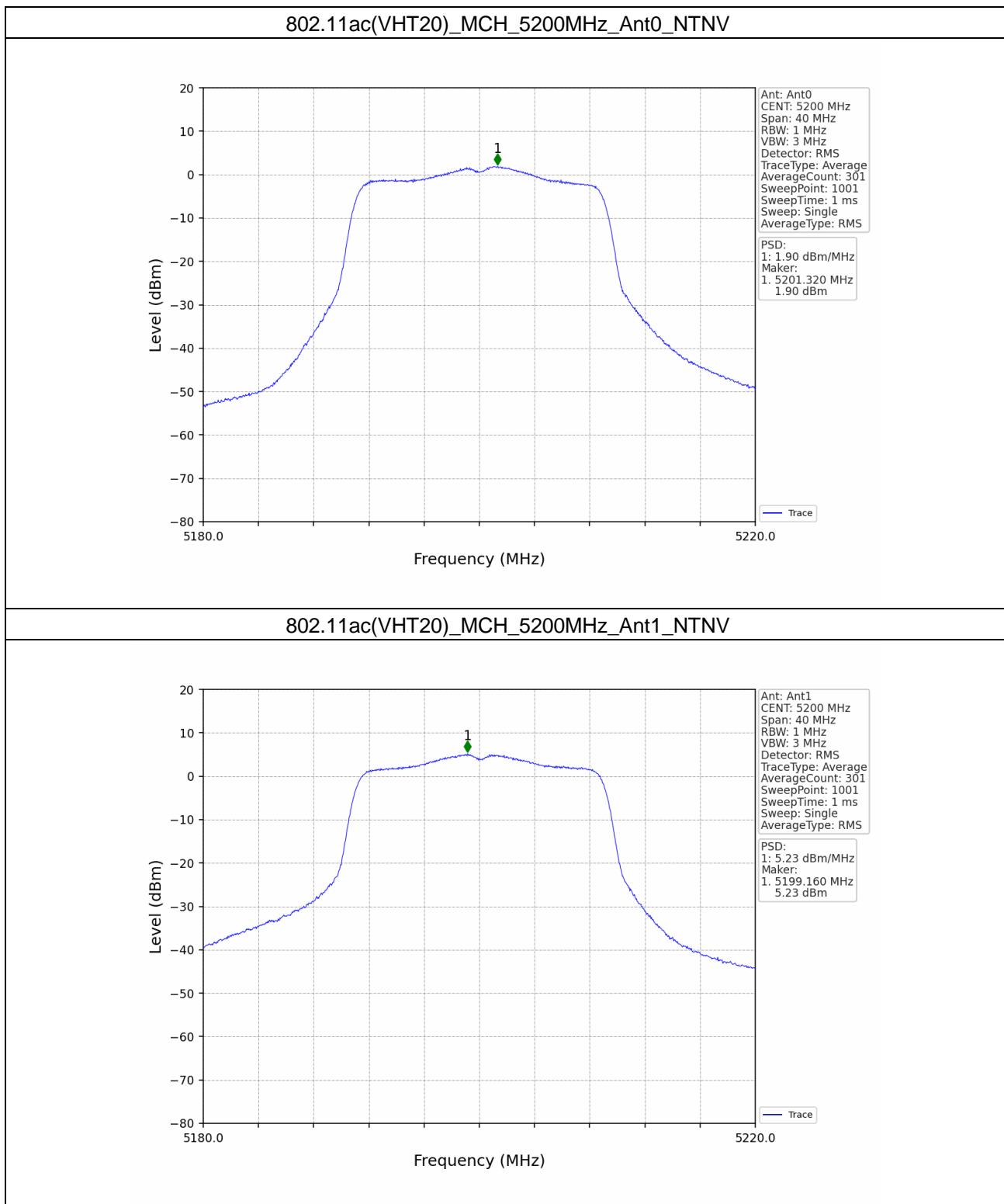
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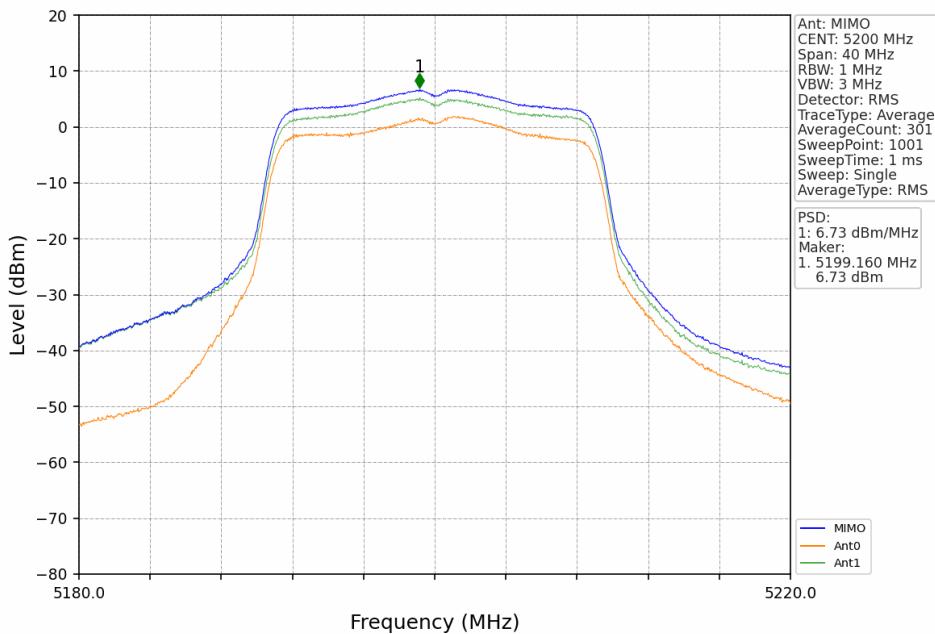
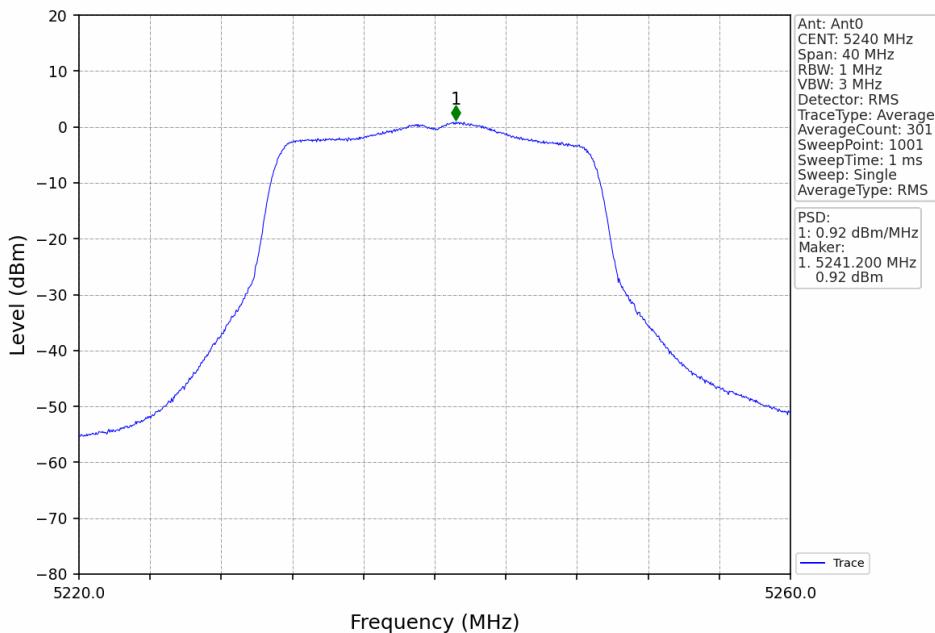
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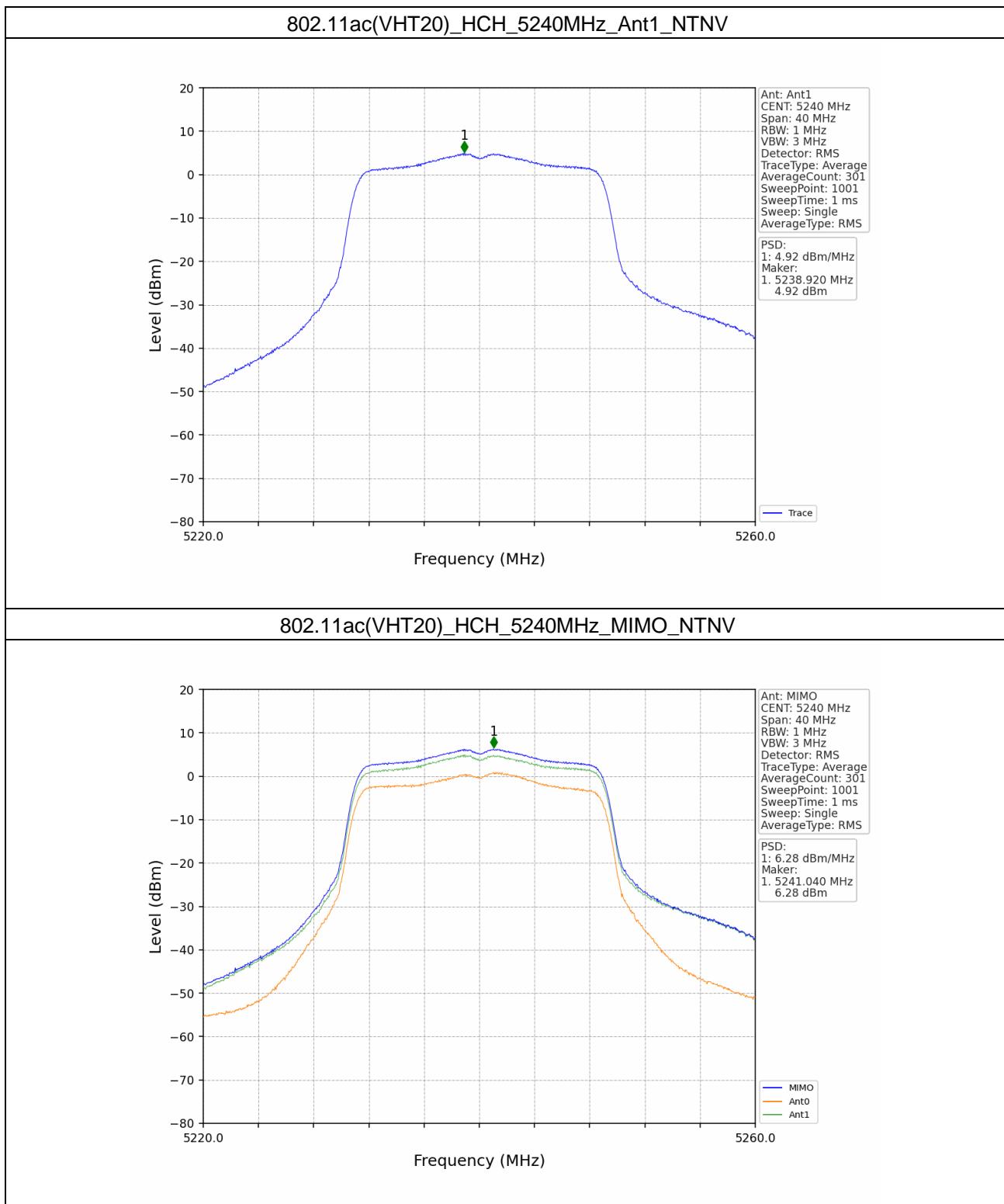
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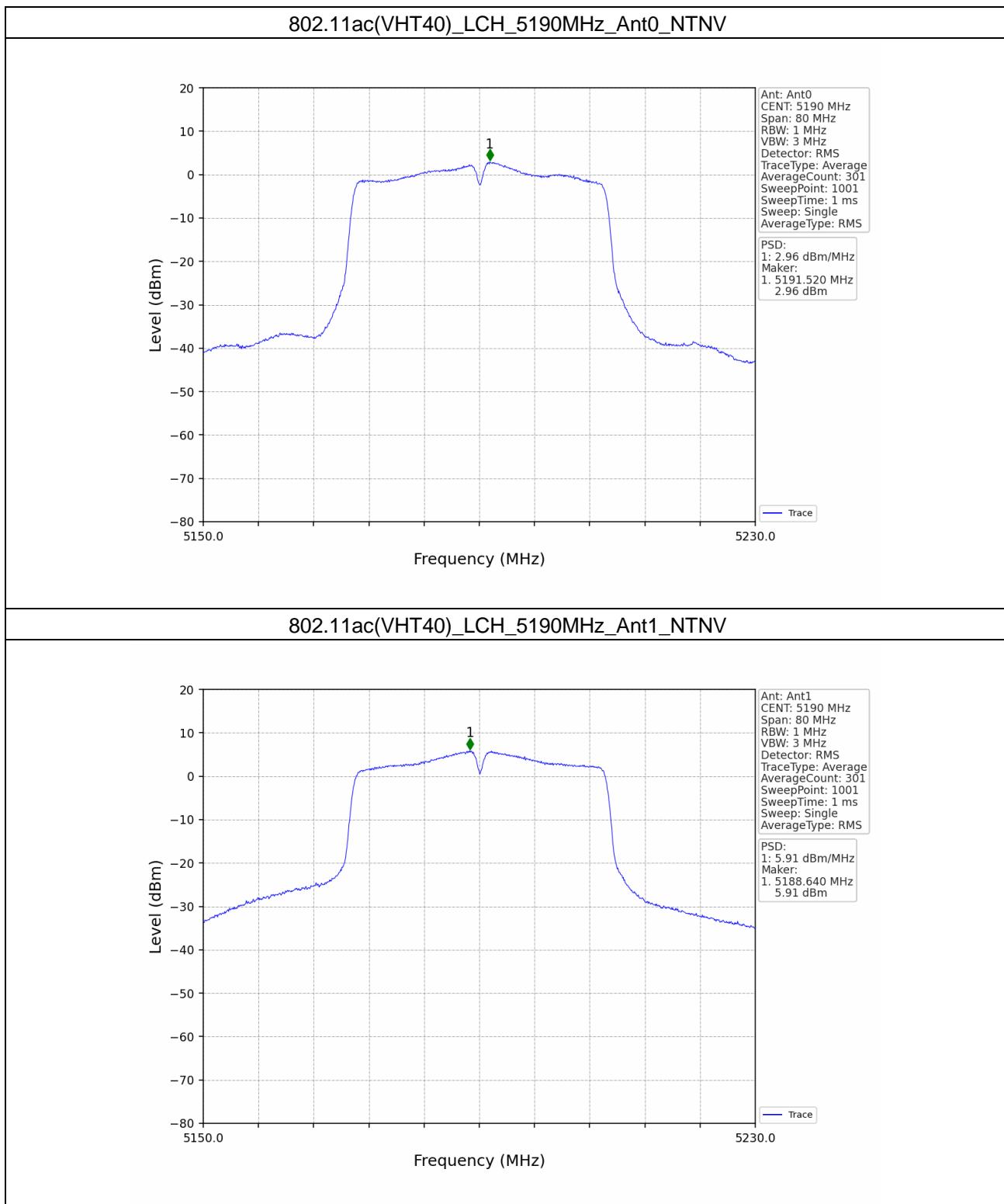
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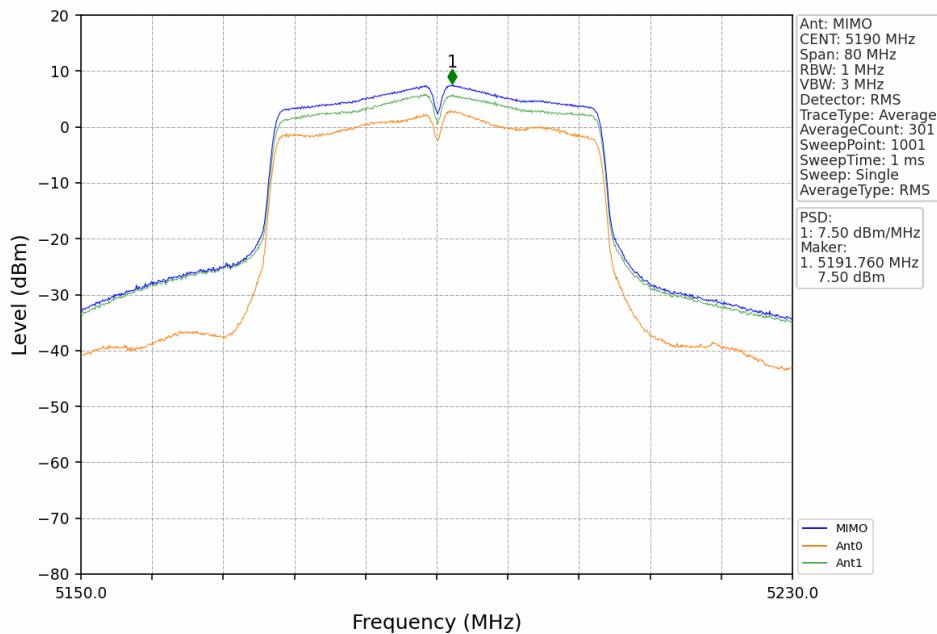
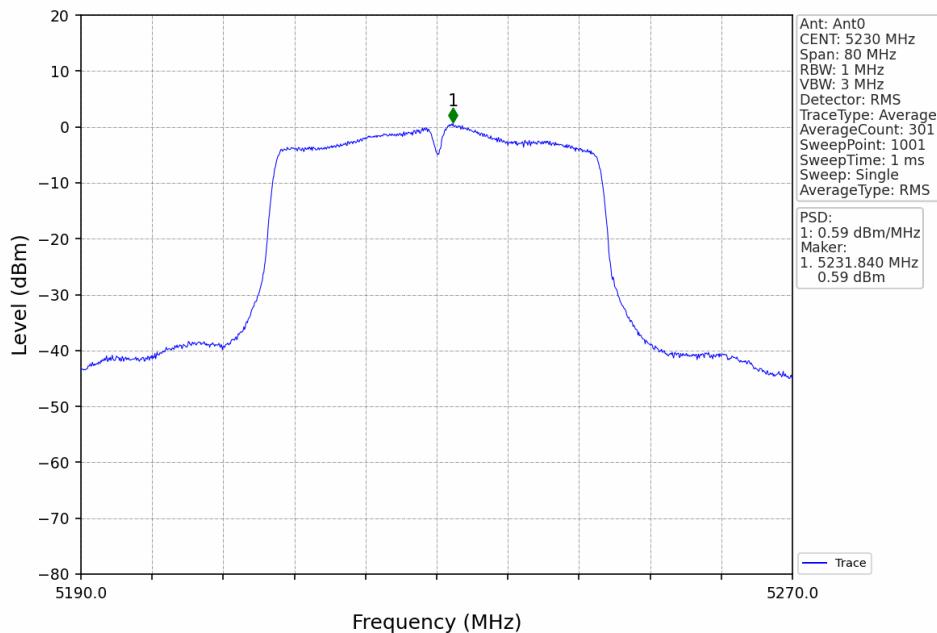
**802.11ac(VHT20)\_MCH\_5200MHz\_MIMO\_NTNV****802.11ac(VHT20)\_HCH\_5240MHz\_Ant0\_NTNV**

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**802.11ac(VHT40)\_LCH\_5190MHz\_MIMO\_NTNV****802.11ac(VHT40)\_HCH\_5230MHz\_Ant0\_NTNV**

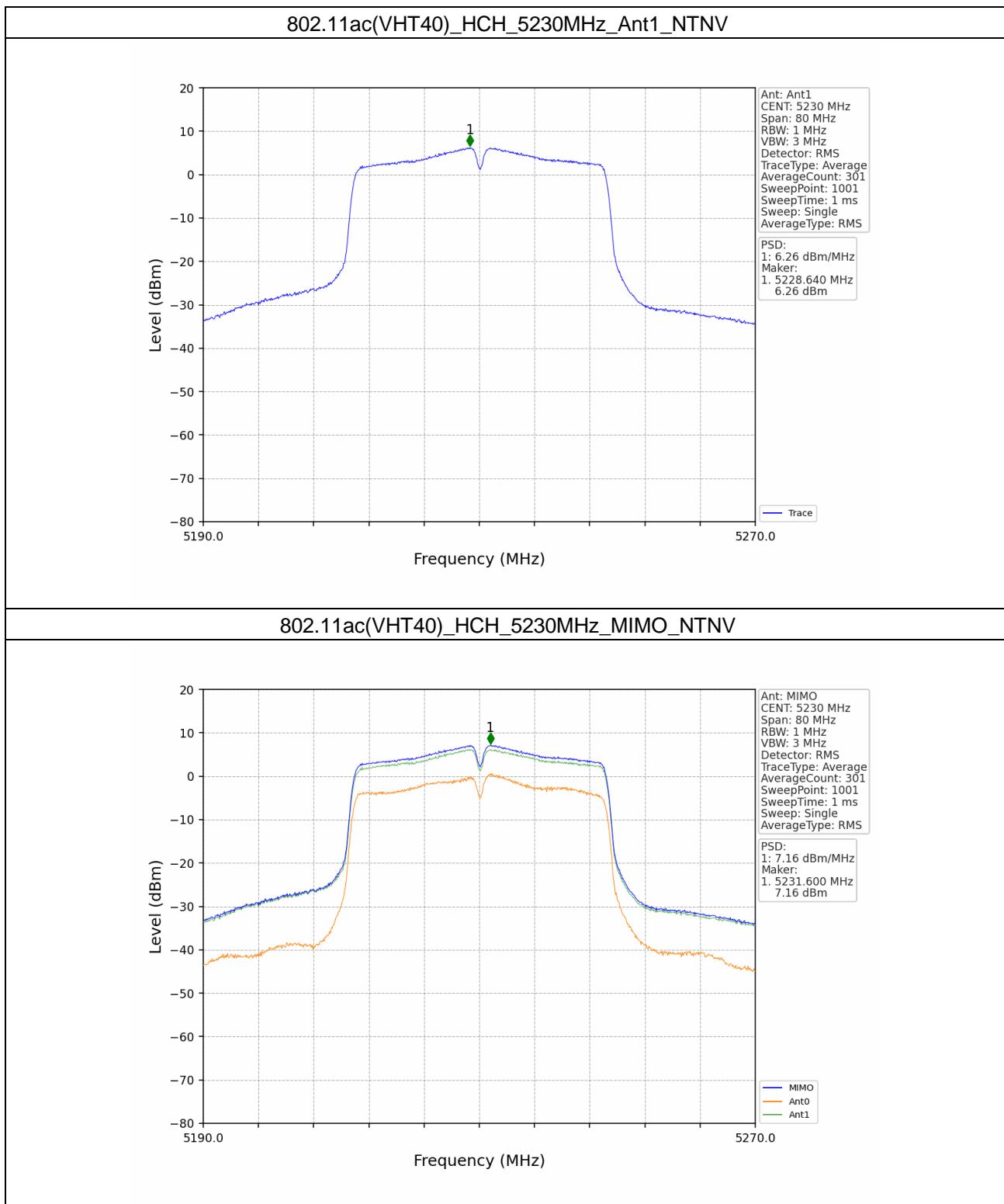
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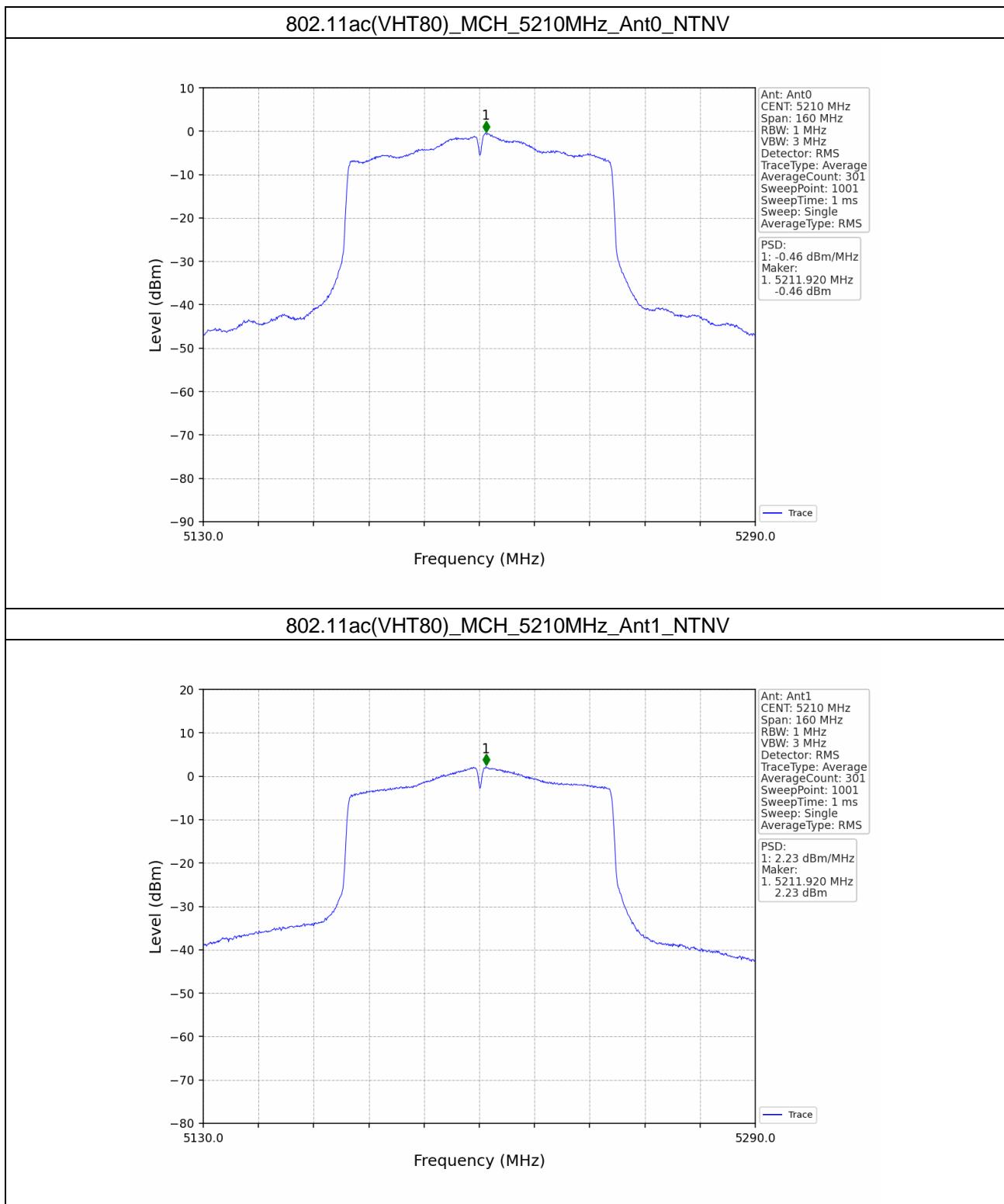
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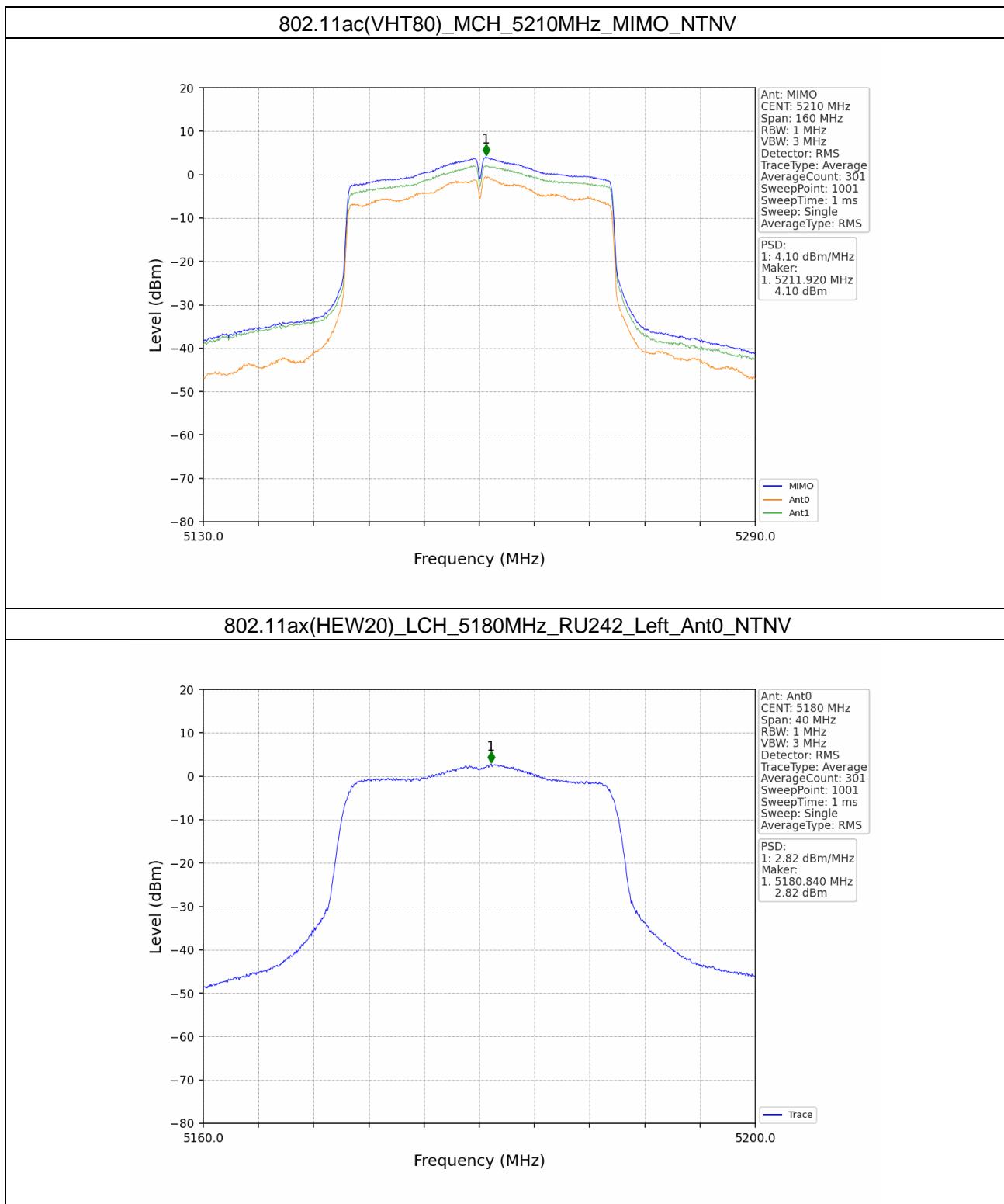
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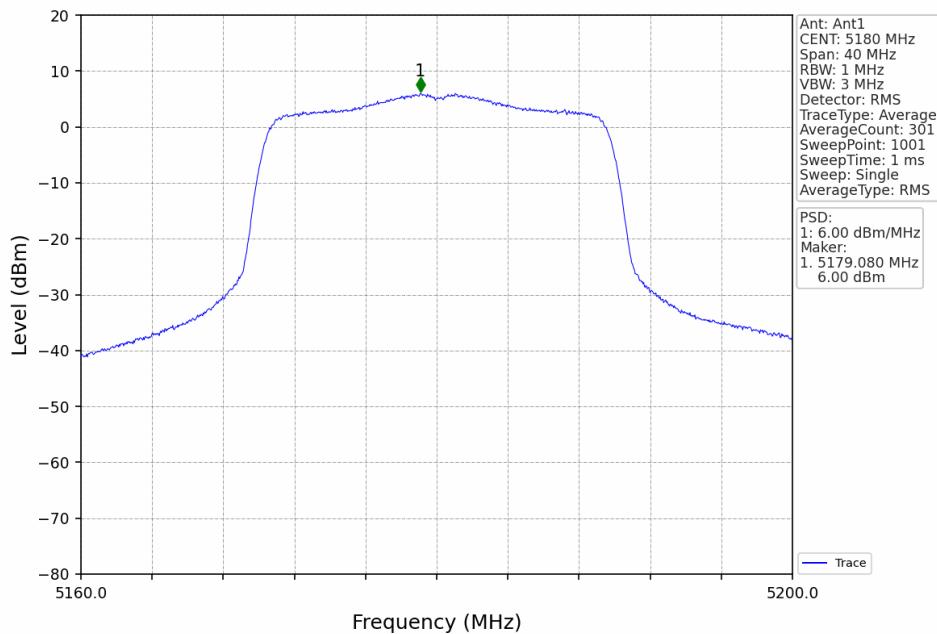
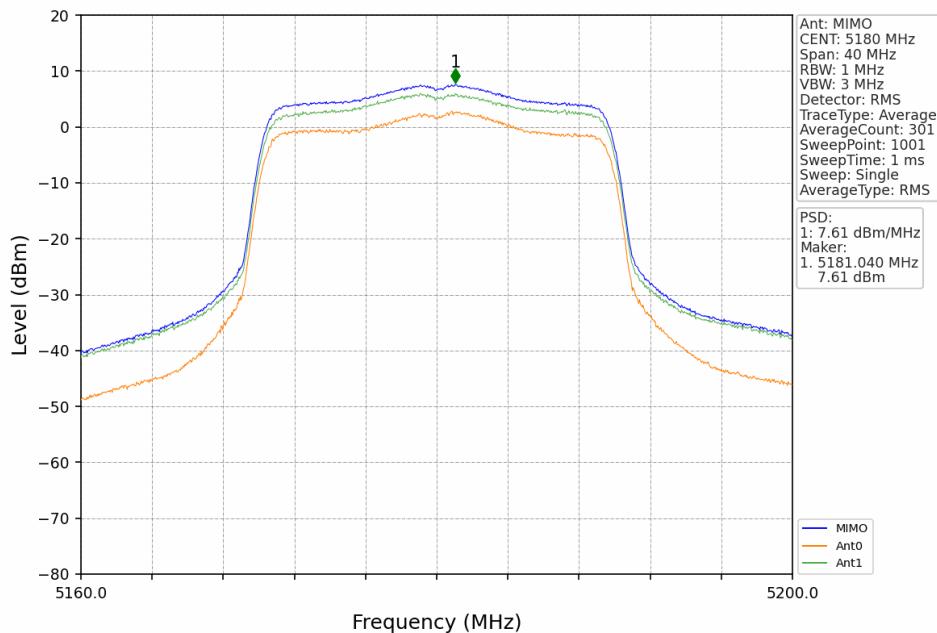
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**802.11ax(HEW20)\_LCH\_5180MHz\_RU242\_Left\_Ant1\_NTNV****802.11ax(HEW20)\_LCH\_5180MHz\_RU242\_Left\_MIMO\_NTNV**

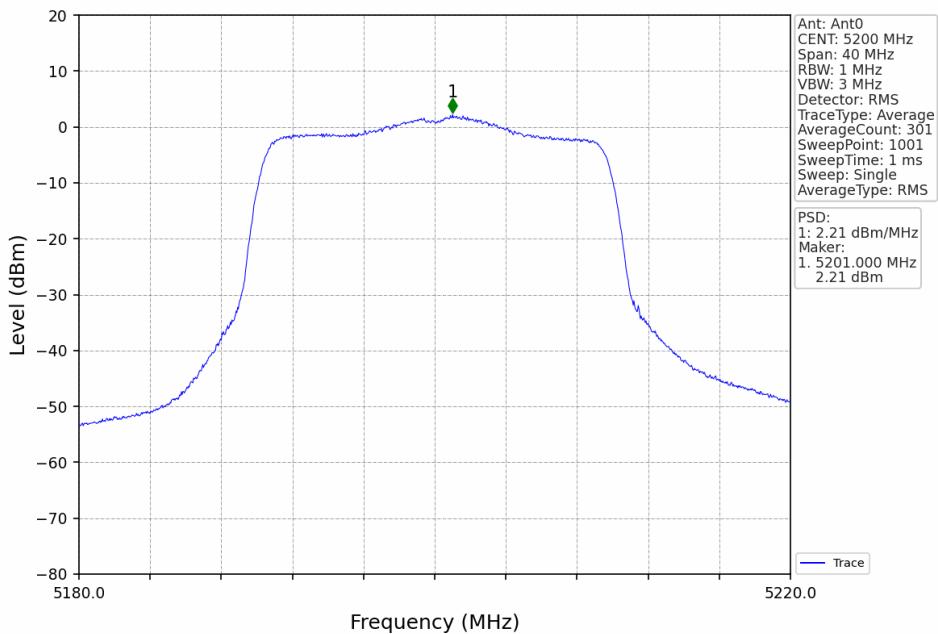
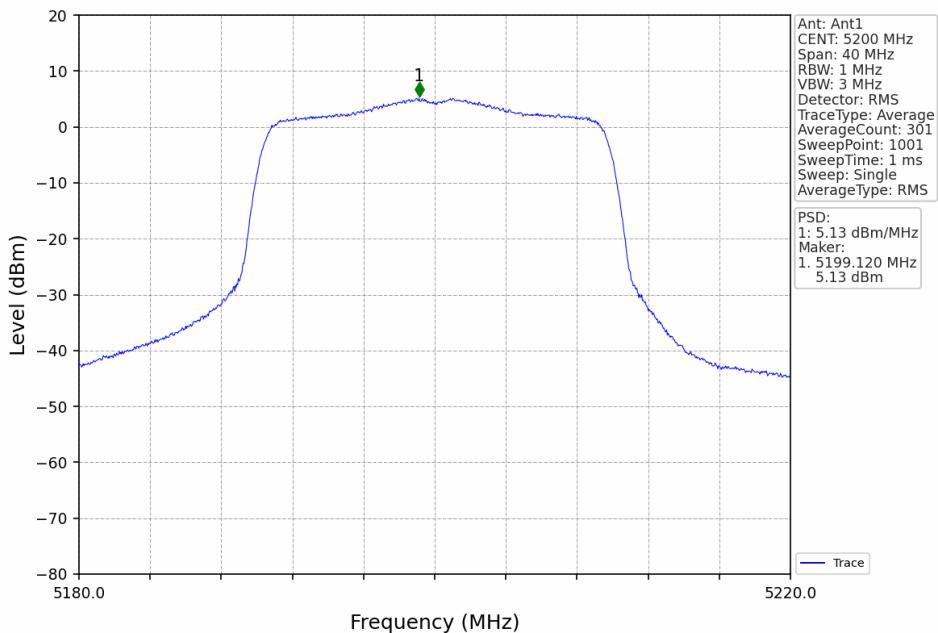
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**802.11ax(HEW20)\_MCH\_5200MHz\_RU242\_Left\_Ant0\_NTNV****802.11ax(HEW20)\_MCH\_5200MHz\_RU242\_Left\_Ant1\_NTNV**

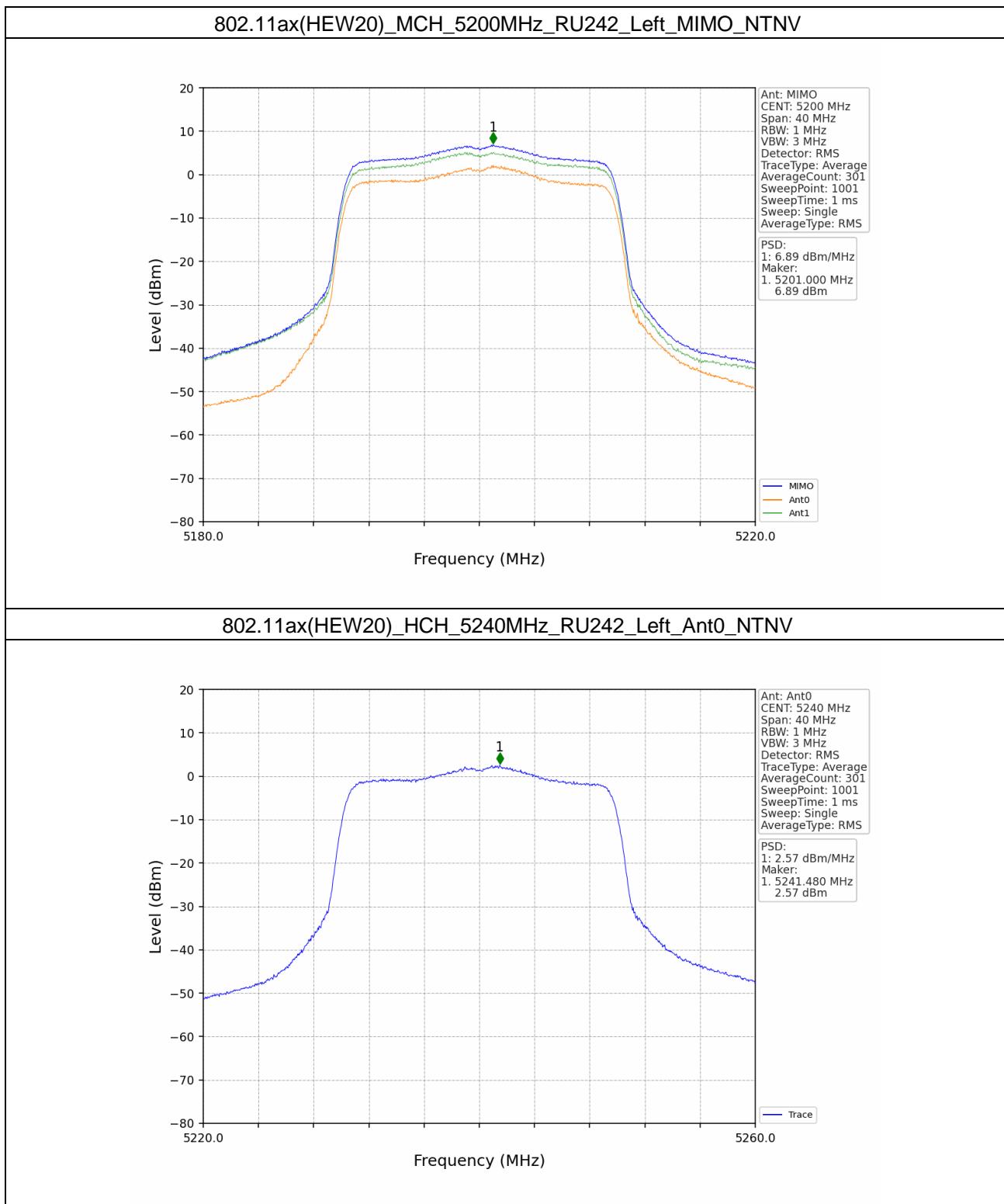
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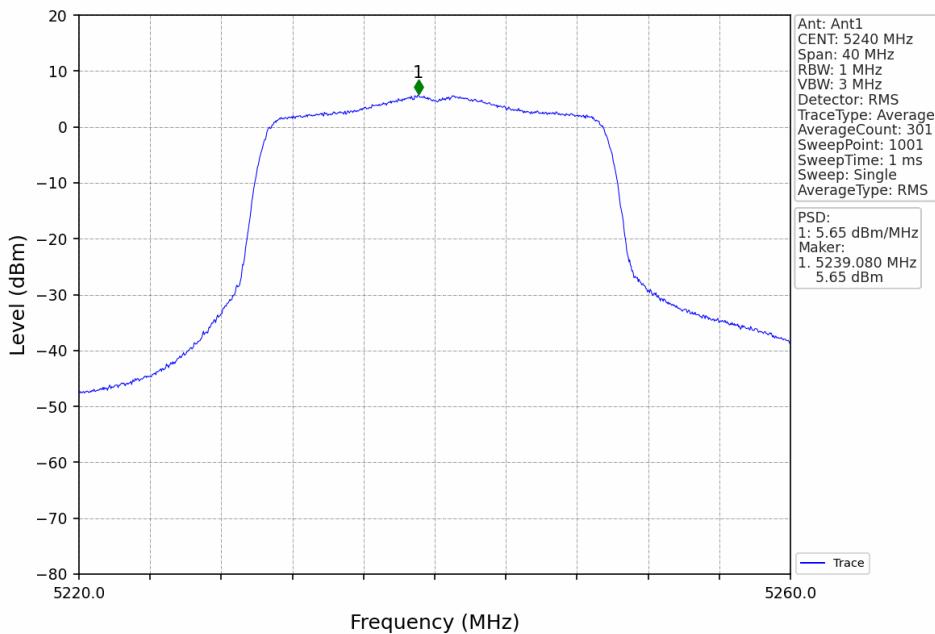
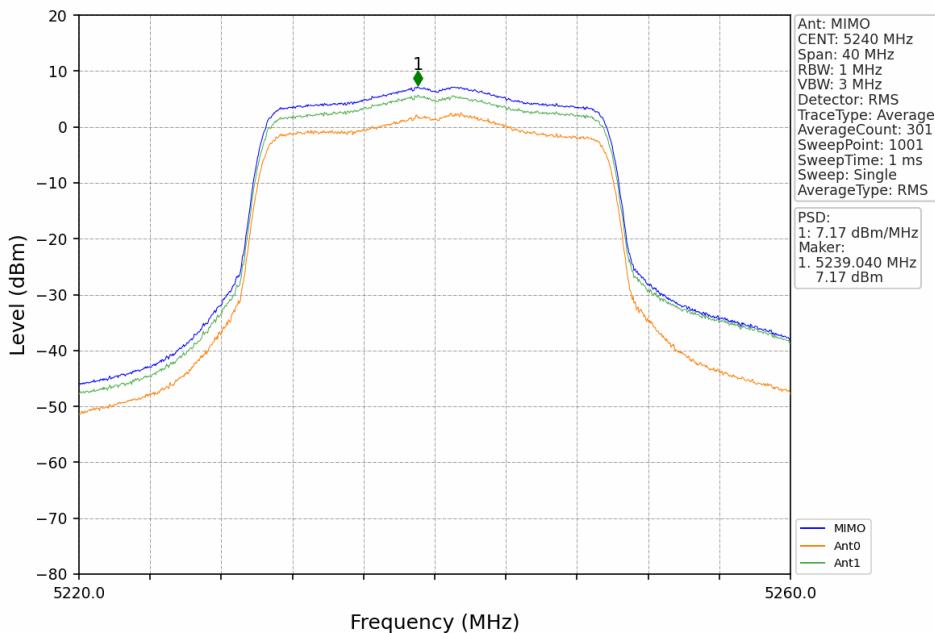
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**802.11ax(HEW20)\_HCH\_5240MHz\_RU242\_Left\_Ant1\_NTNV****802.11ax(HEW20)\_HCH\_5240MHz\_RU242\_Left\_MIMO\_NTNV**

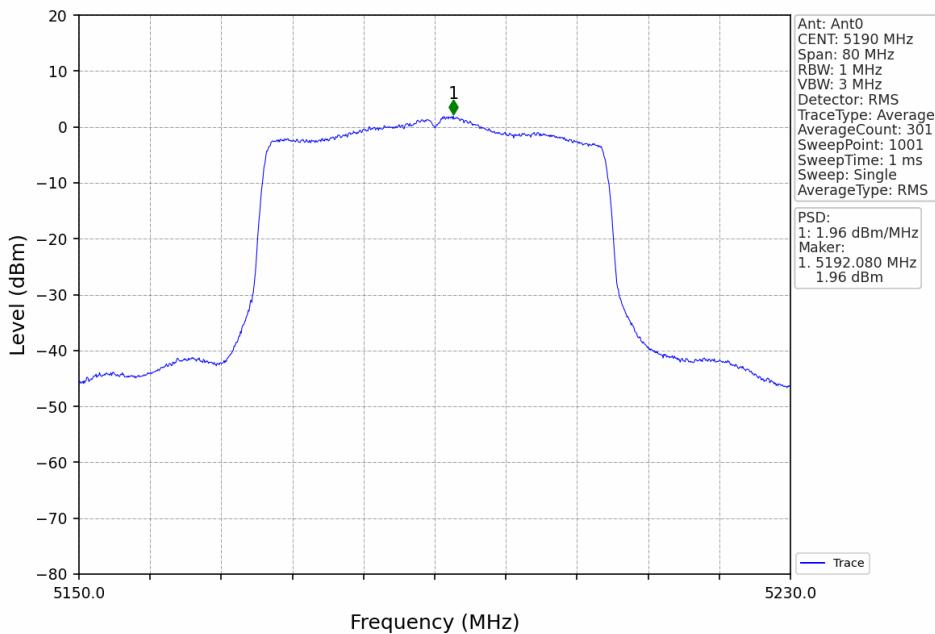
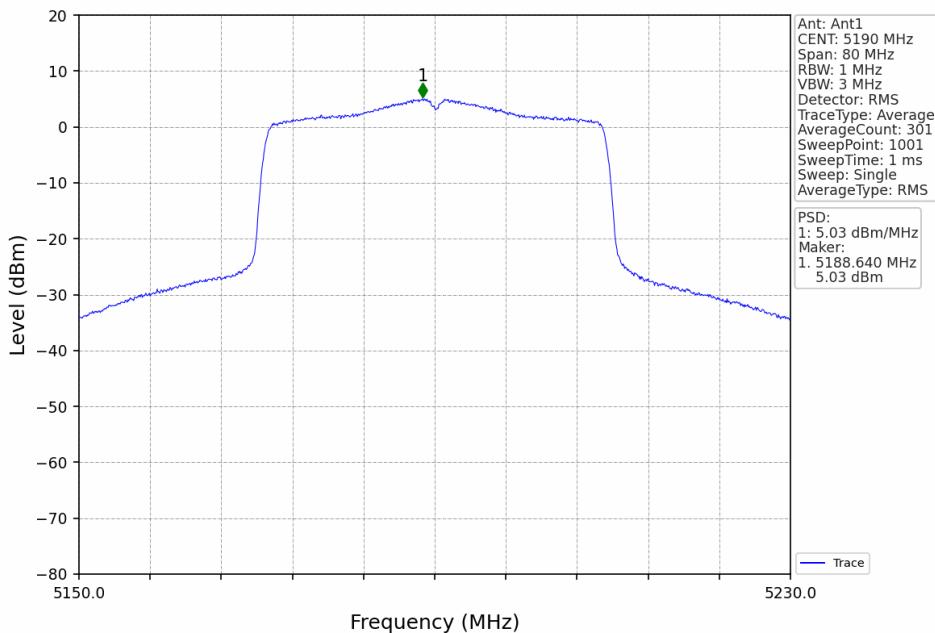
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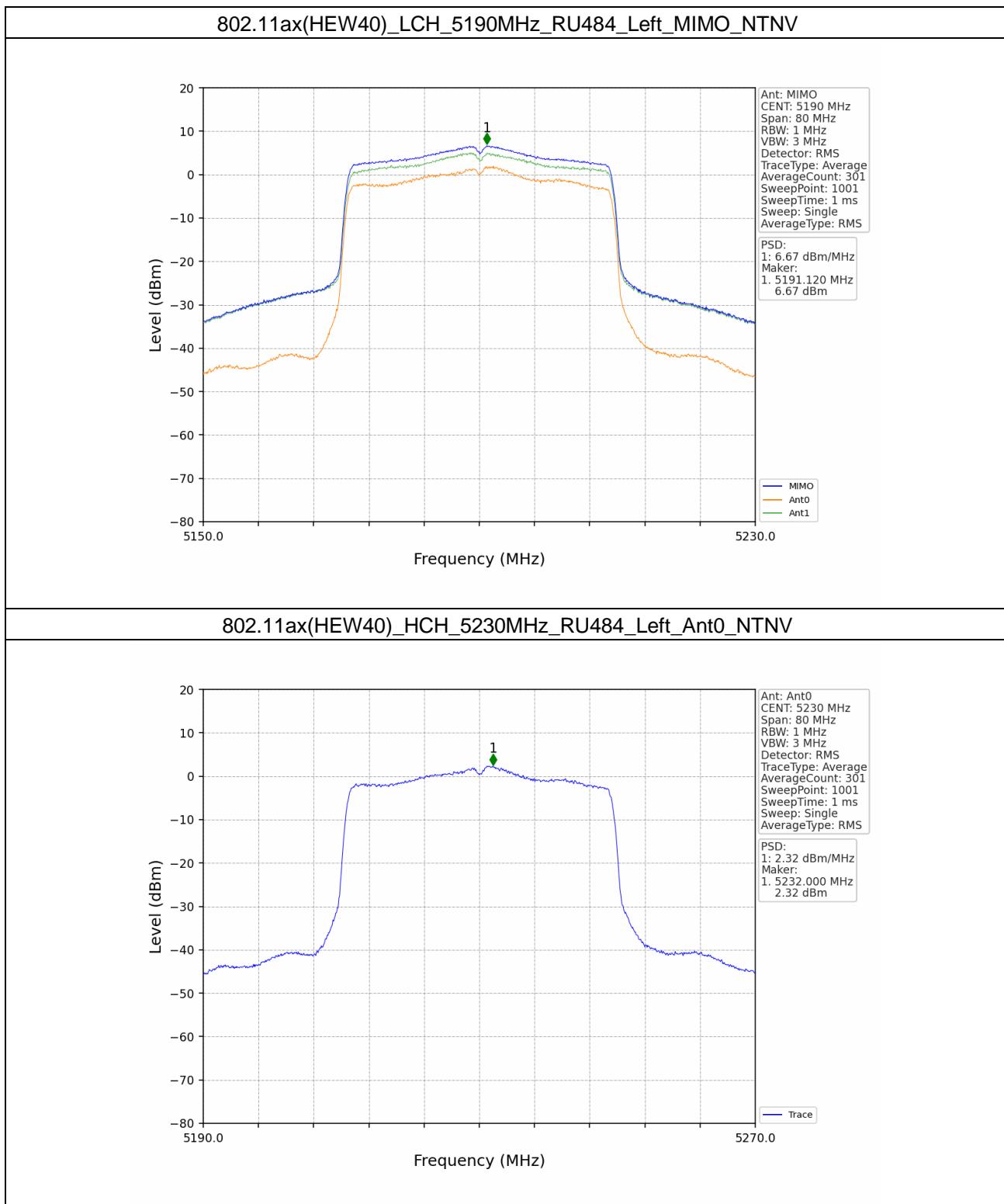
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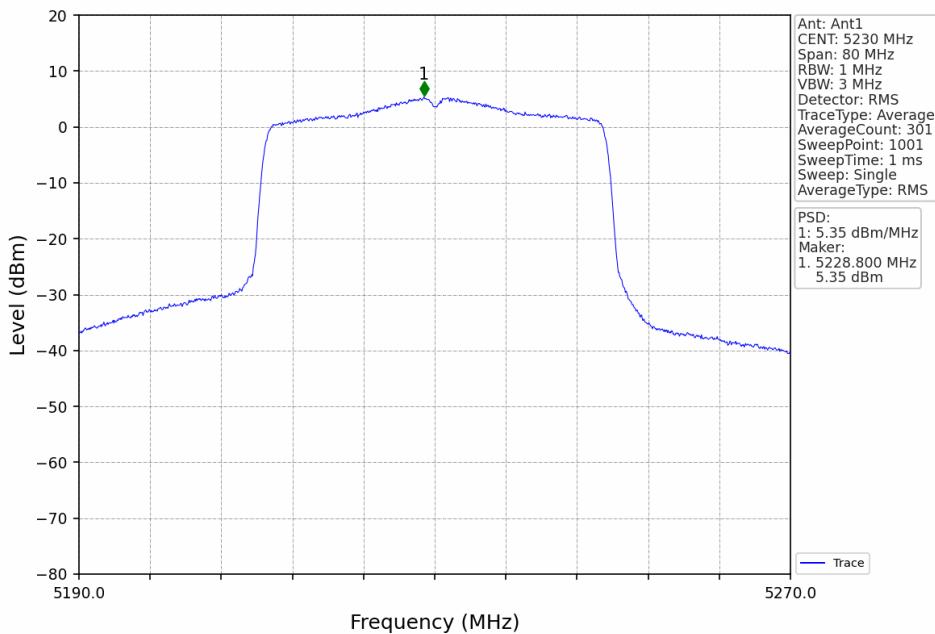
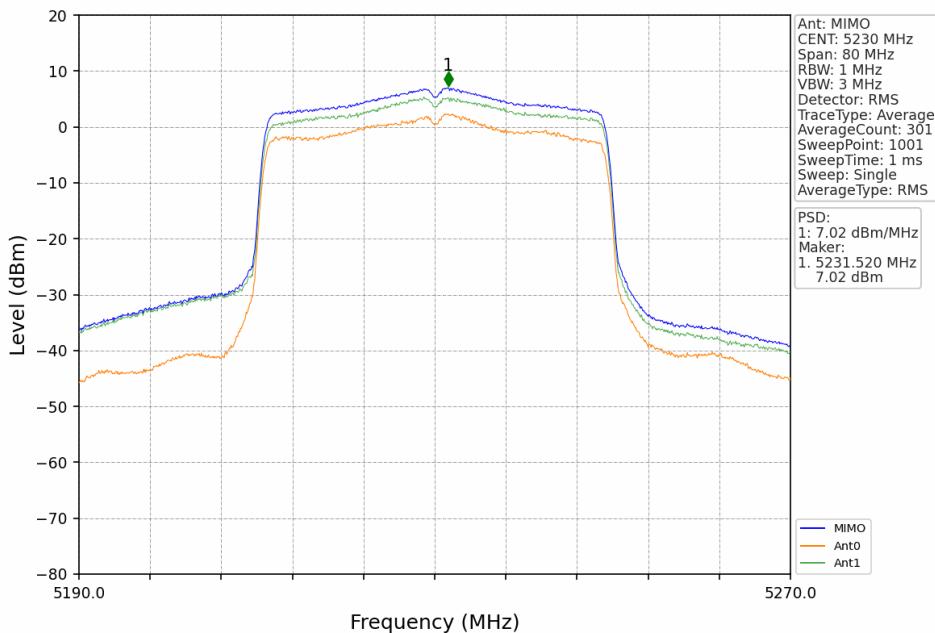
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**802.11ax(HEW40)\_LCH\_5190MHz\_RU484\_Left\_Ant0\_NTNV****802.11ax(HEW40)\_LCH\_5190MHz\_RU484\_Left\_Ant1\_NTNV**



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**802.11ax(HEW40)\_HCH\_5230MHz\_RU484\_Left\_Ant1\_NTNV****802.11ax(HEW40)\_HCH\_5230MHz\_RU484\_Left\_MIMO\_NTNV**

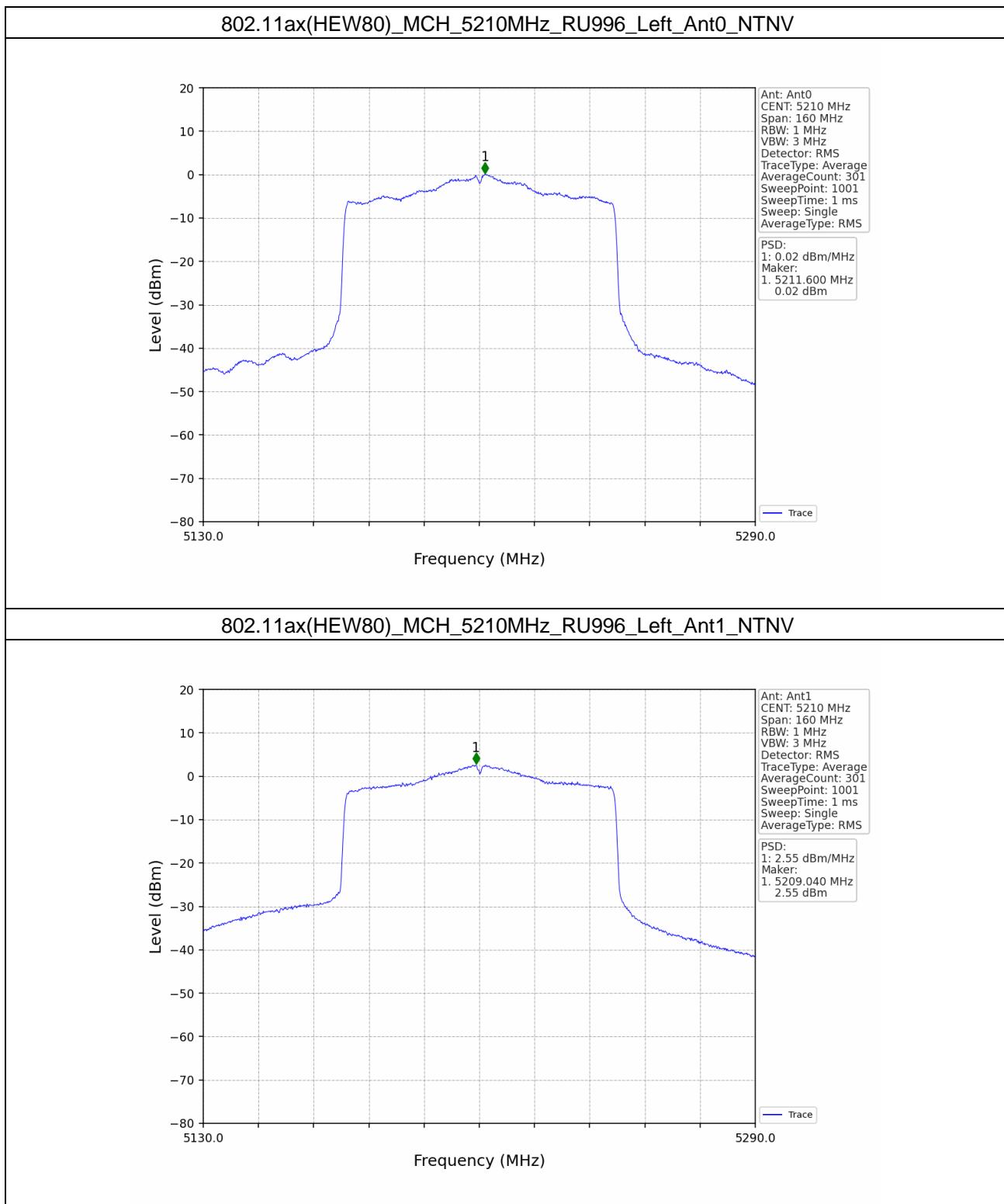
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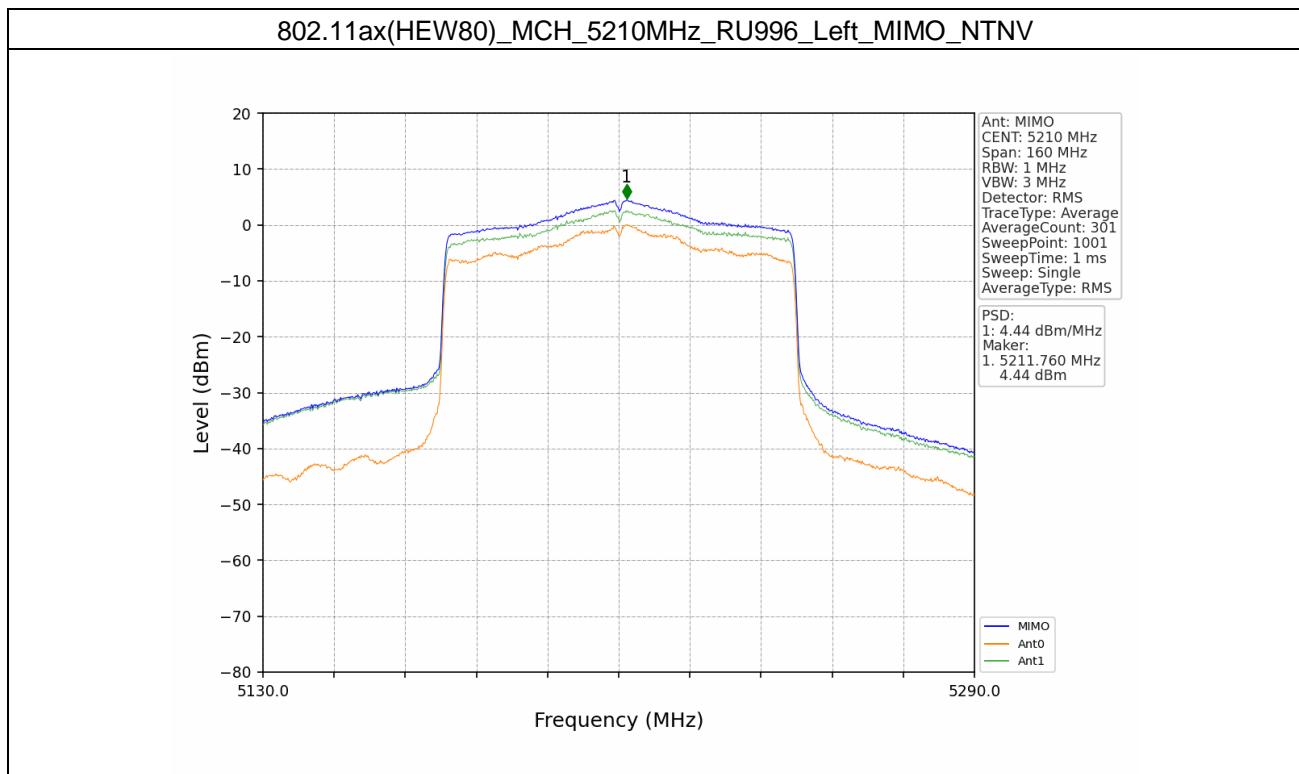
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## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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

Report No.: SZCR230900303105

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## 4.2 PSD-Band3

## 4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/500kHz)				Verdict
					ANT0	ANT1	MIMO	Limit	
802.11a	SISO	5745	/	/	1.59	3.53	/	<=30	Pass
		5785	/	/	3.06	4.14	/	<=30	Pass
		5825	/	/	2.92	5.84	/	<=30	Pass
802.11n (HT20)	MIMO	5745	/	/	-0.62	1.09	3.18	<=27.99	Pass
		5785	/	/	1.61	2.12	4.81	<=27.99	Pass
		5825	/	/	1.21	2.36	4.75	<=27.99	Pass
802.11n (HT40)	MIMO	5755	/	/	-2.62	-1.45	1.00	<=27.99	Pass
		5795	/	/	-1.38	-1.56	1.46	<=27.99	Pass
802.11ac (VHT20)	MIMO	5745	/	/	-0.09	1.80	3.89	<=27.99	Pass
		5785	/	/	0.97	2.57	4.82	<=27.99	Pass
		5825	/	/	1.06	2.53	4.72	<=27.99	Pass
802.11ac (VHT40)	MIMO	5755	/	/	0.24	1.83	4.03	<=27.99	Pass
		5795	/	/	-2.01	-1.19	1.40	<=27.99	Pass
802.11ac (VHT80)	MIMO	5775	/	/	-5.61	-4.62	-2.12	<=27.99	Pass
802.11ax (HEW20)	MIMO	5745	RU242	Left	0.08	2.27	4.19	<=27.99	Pass
		5785	RU242	Left	1.31	2.70	4.83	<=27.99	Pass
		5825	RU242	Left	0.61	2.23	4.30	<=27.99	Pass
802.11ax (HEW40)	MIMO	5755	RU484	Left	-3.24	-1.46	0.64	<=27.99	Pass
		5795	RU484	Left	-1.64	-0.57	1.78	<=27.99	Pass
802.11ax (HEW80)	MIMO	5775	RU996	Left	-4.51	-3.55	-1.37	<=27.99	Pass
Note1: Antenna Gain (U-NII-3): ANT0: 5dBi; ANT1: 3.5dBi directional gain (dBi) for U-NII-3 = $G_{ANT} + 10 \log(N_{ANT})$ dBi = 5dBi + 3.01dBi = 8.01dBi									

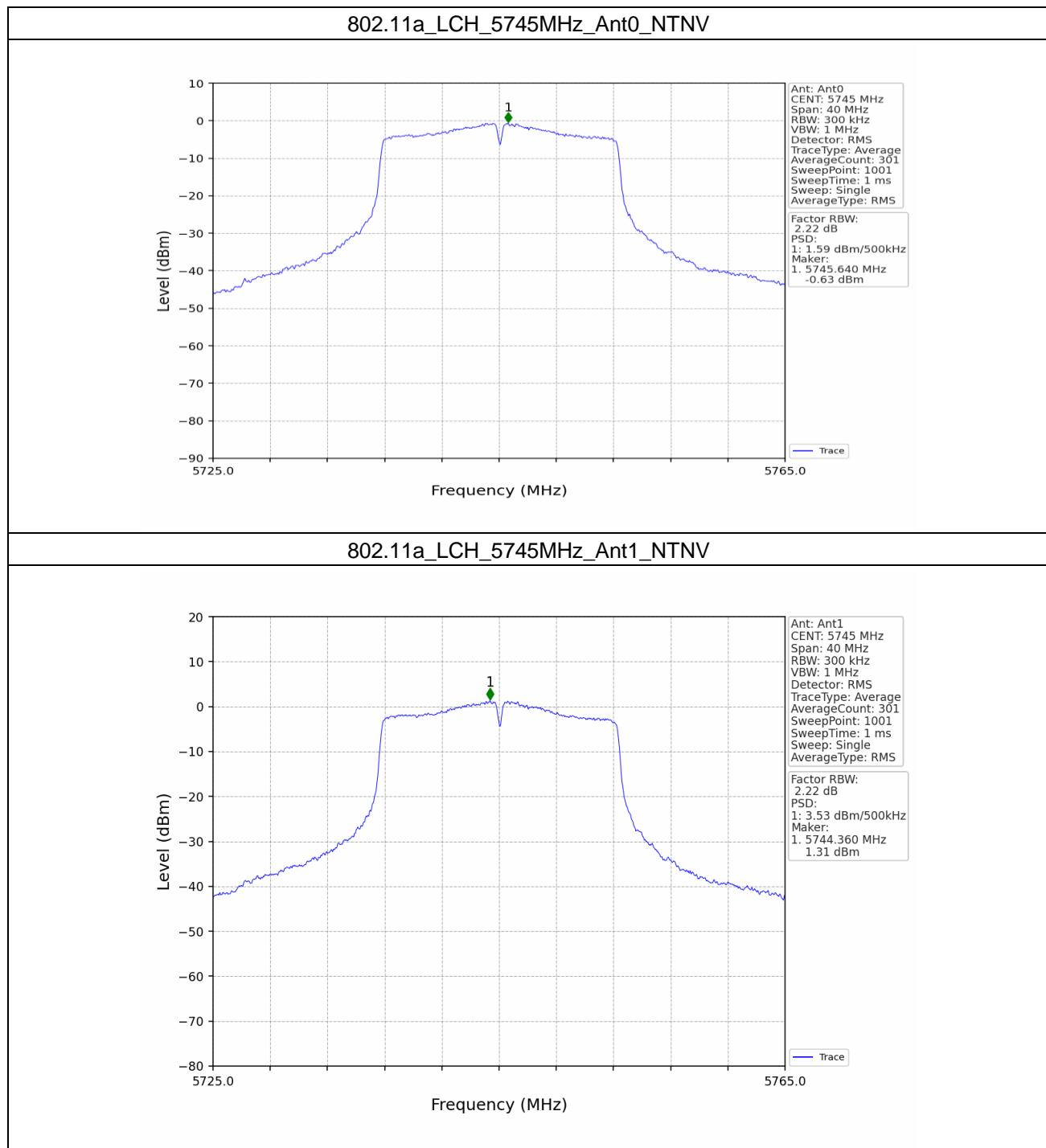
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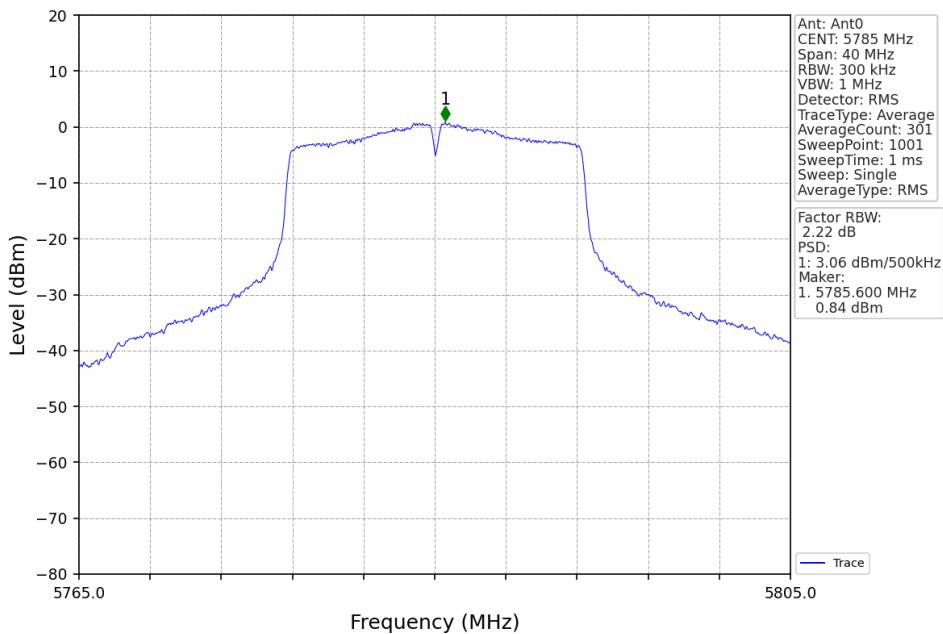
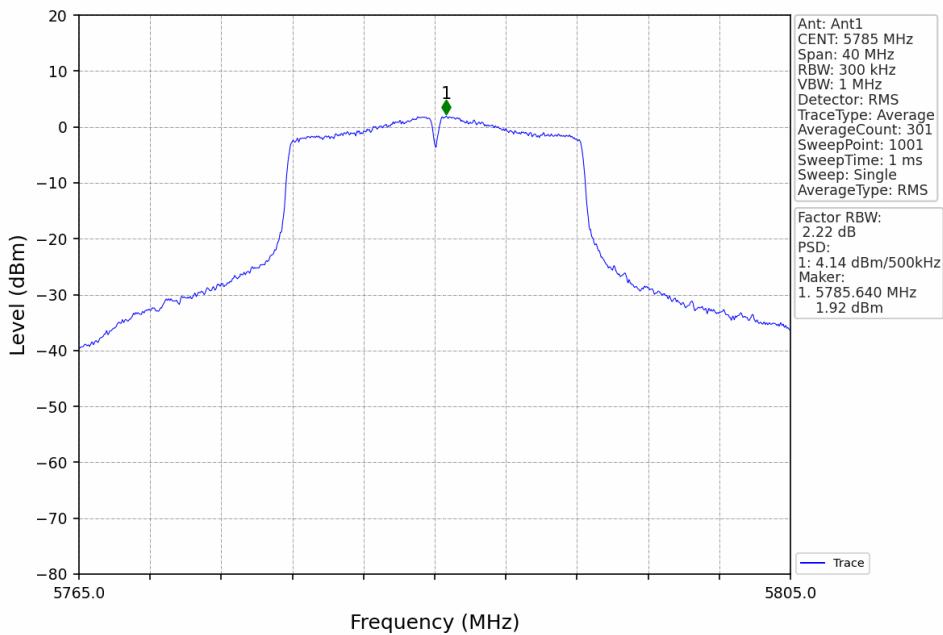
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**4.2.2 Test Graph**

**802.11a\_MCH\_5785MHz\_Ant0\_NTNV****802.11a\_MCH\_5785MHz\_Ant1\_NTNV**

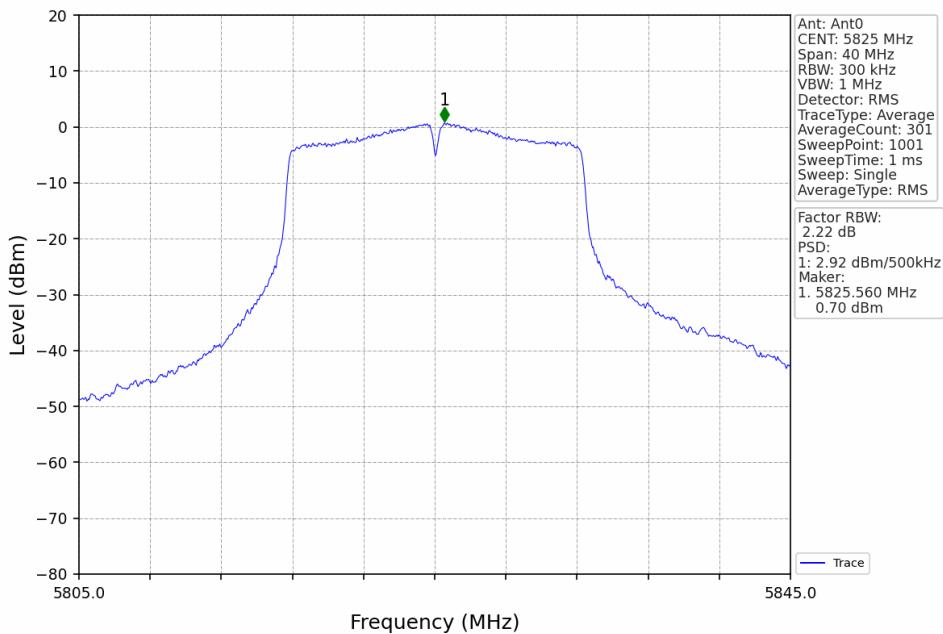
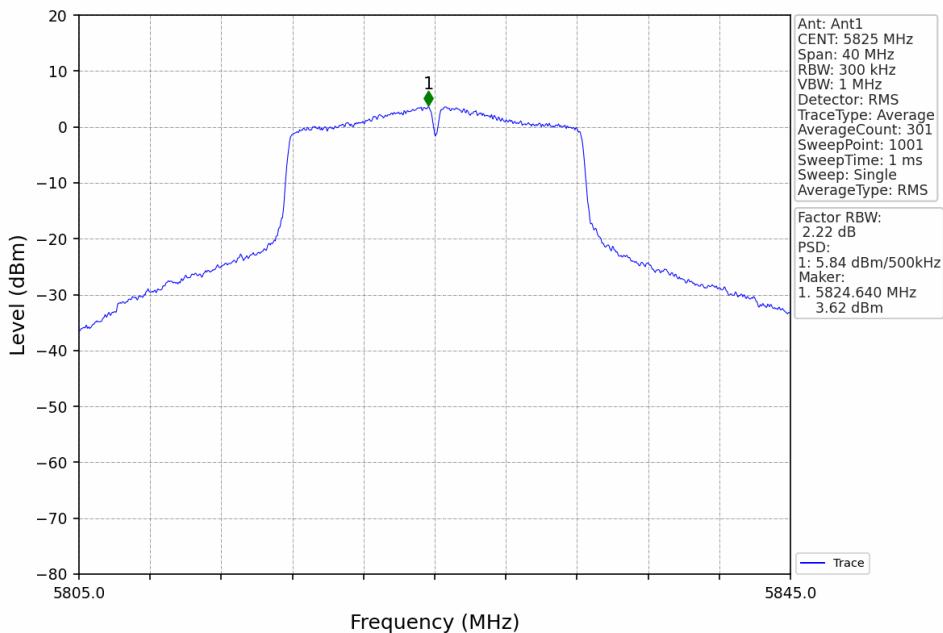
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**802.11a\_HCH\_5825MHz\_Ant0\_NTNV****802.11a\_HCH\_5825MHz\_Ant1\_NTNV**

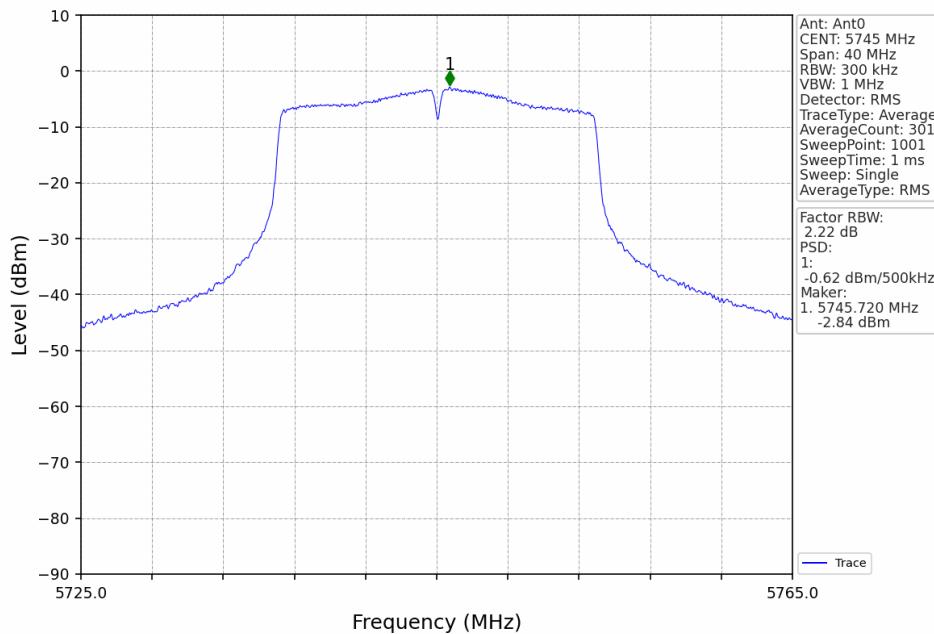
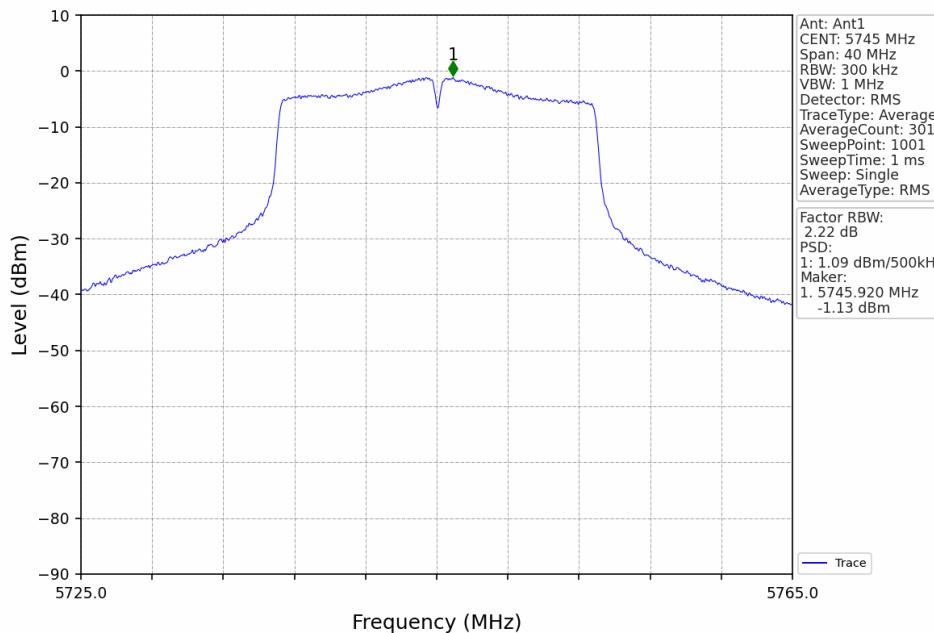
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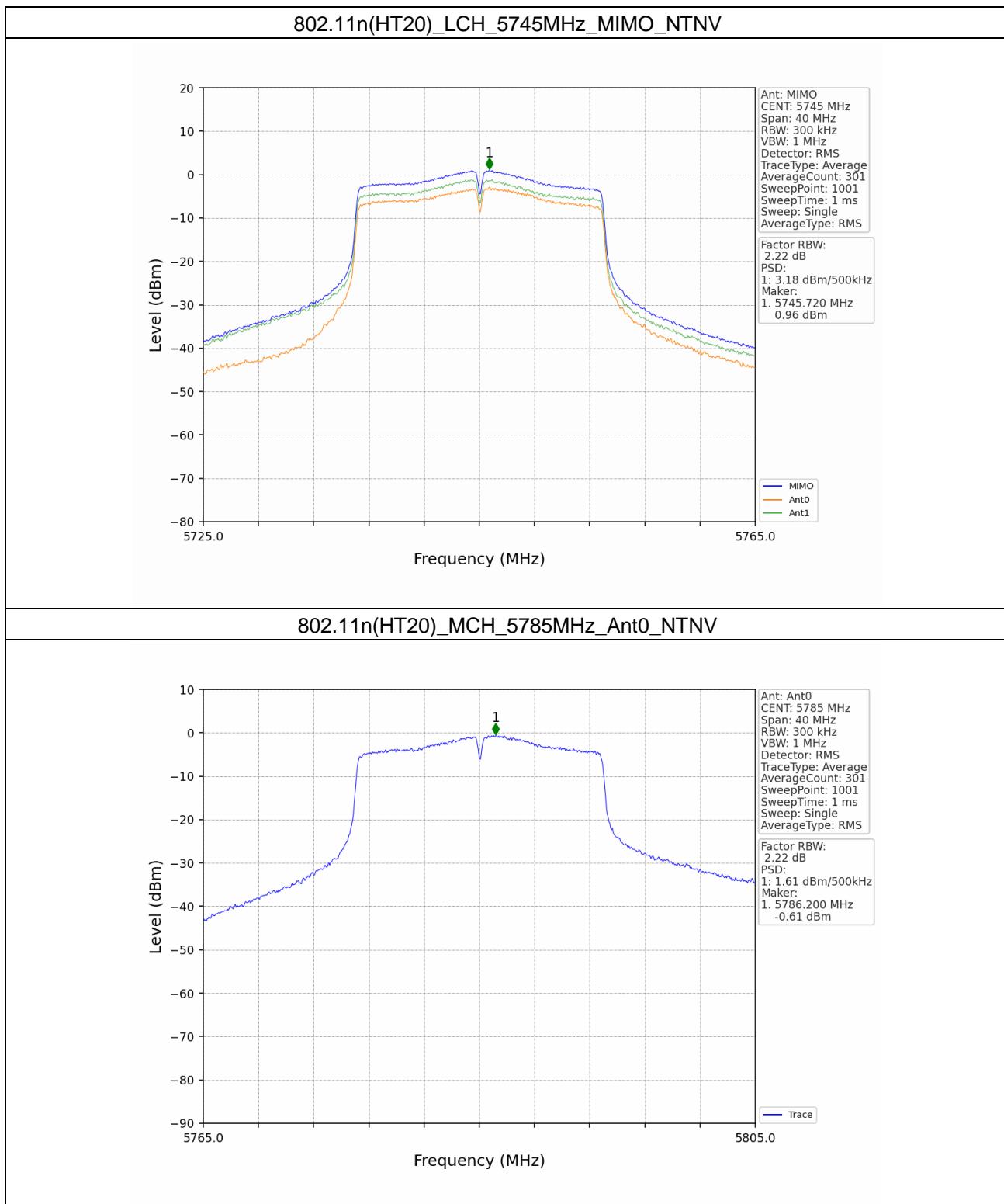
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**802.11n(HT20)\_LCH\_5745MHz\_Ant0\_NTNV****802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV**SGS-CSTC Standards Technical Services Co., Ltd.  
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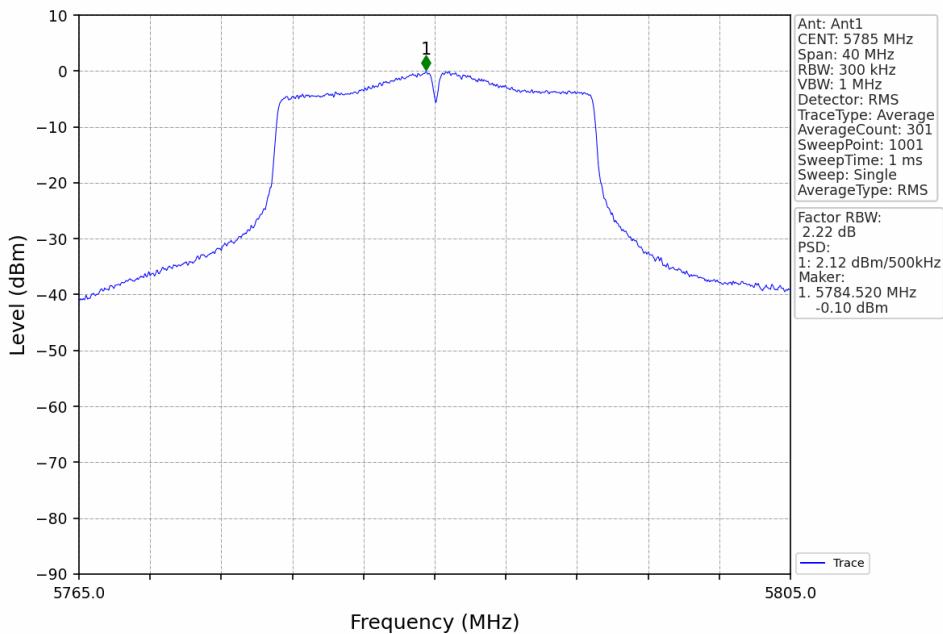
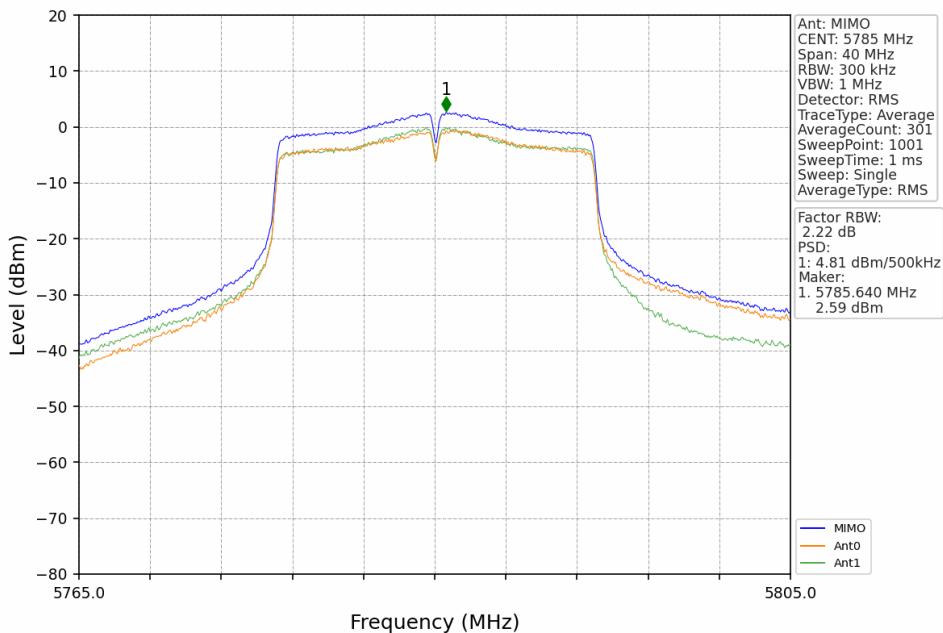
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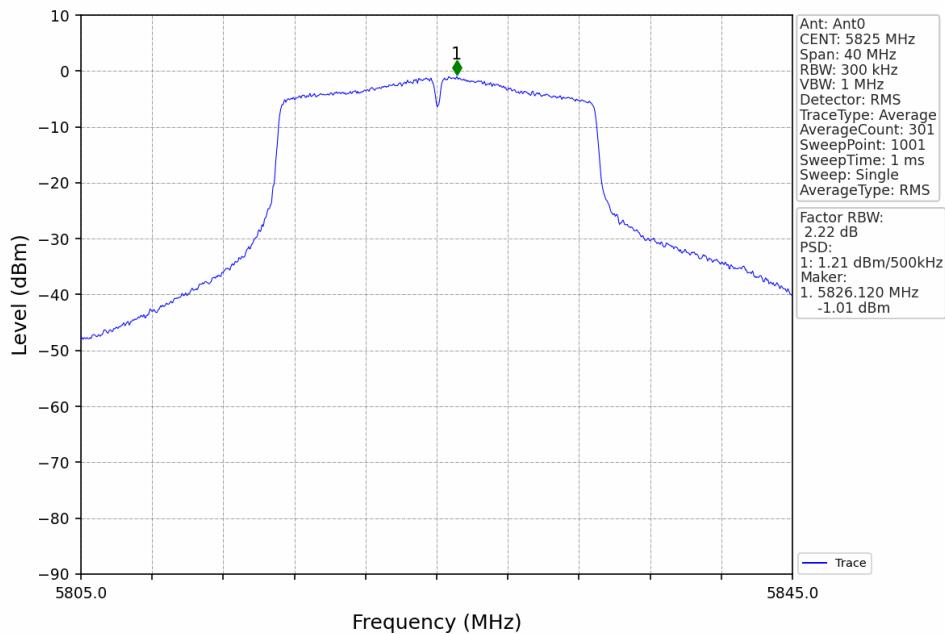
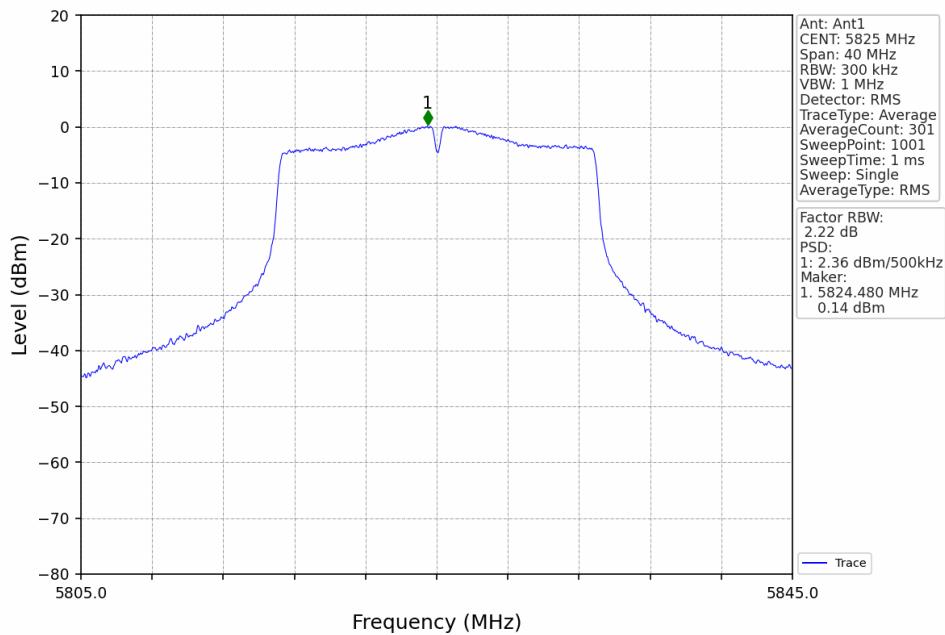
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**802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV****802.11n(HT20)\_MCH\_5785MHz\_MIMO\_NTNV**

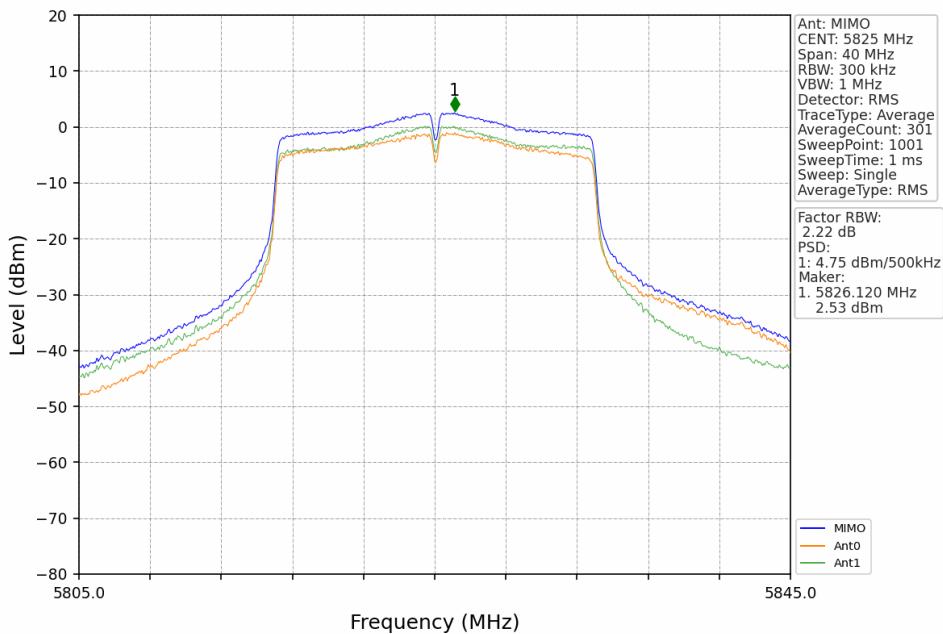
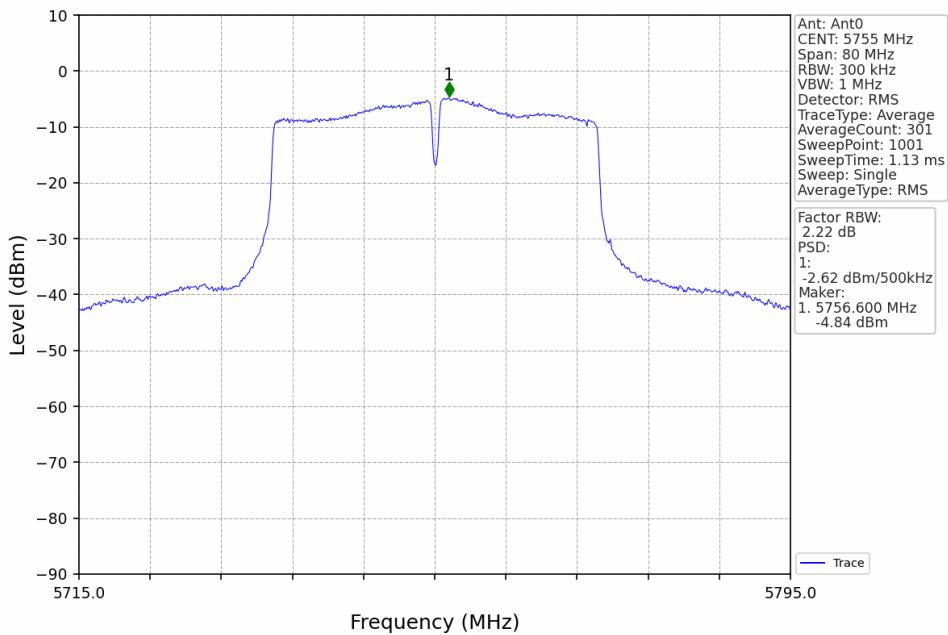
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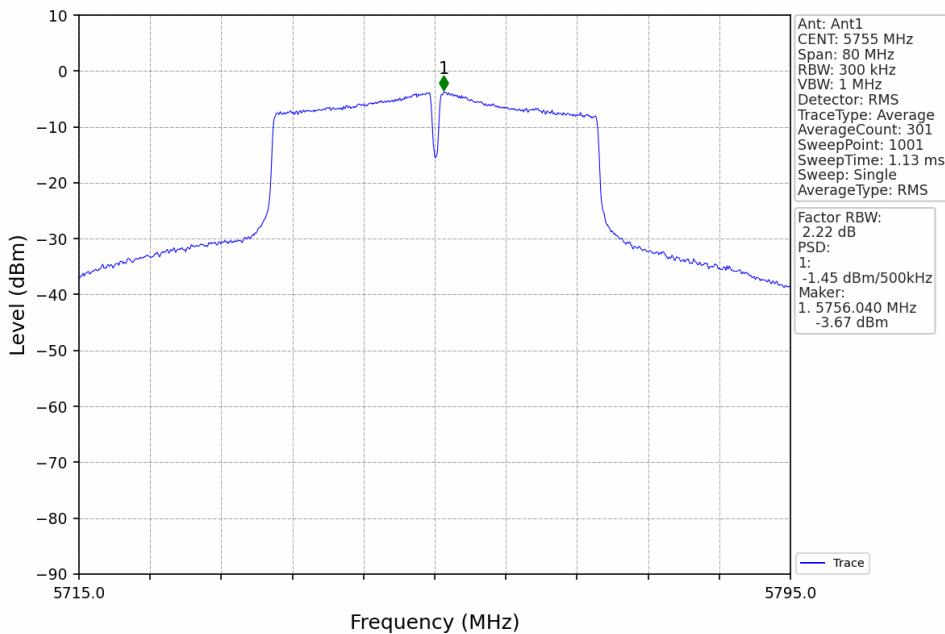
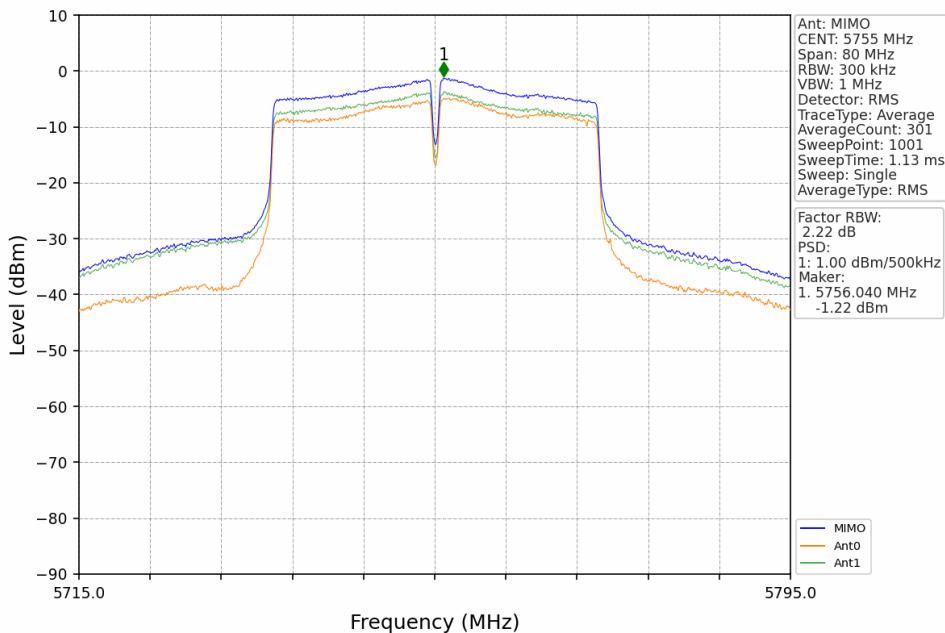
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**802.11n(HT20)\_HCH\_5825MHz\_Ant0\_NTNV****802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV**

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

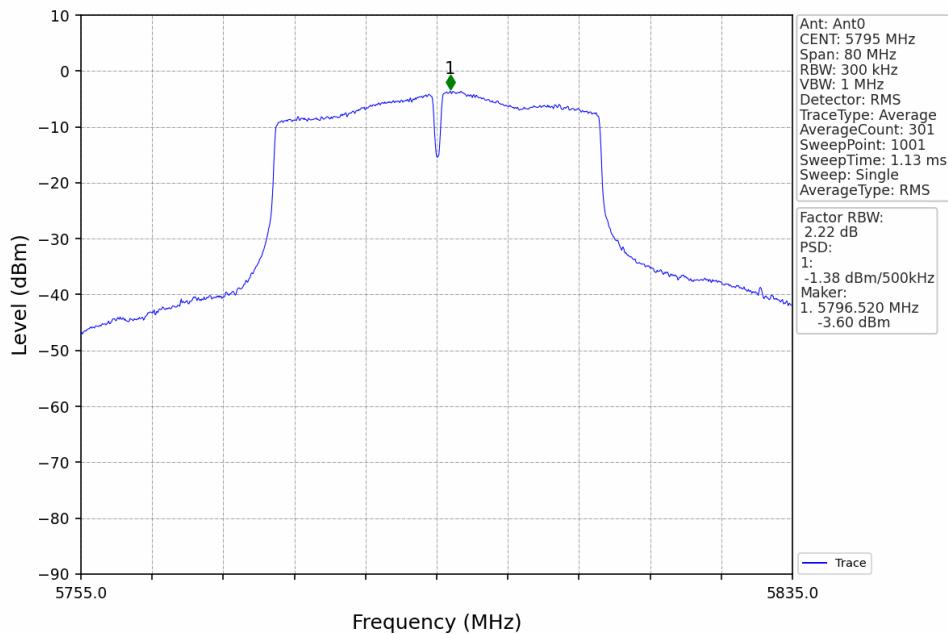
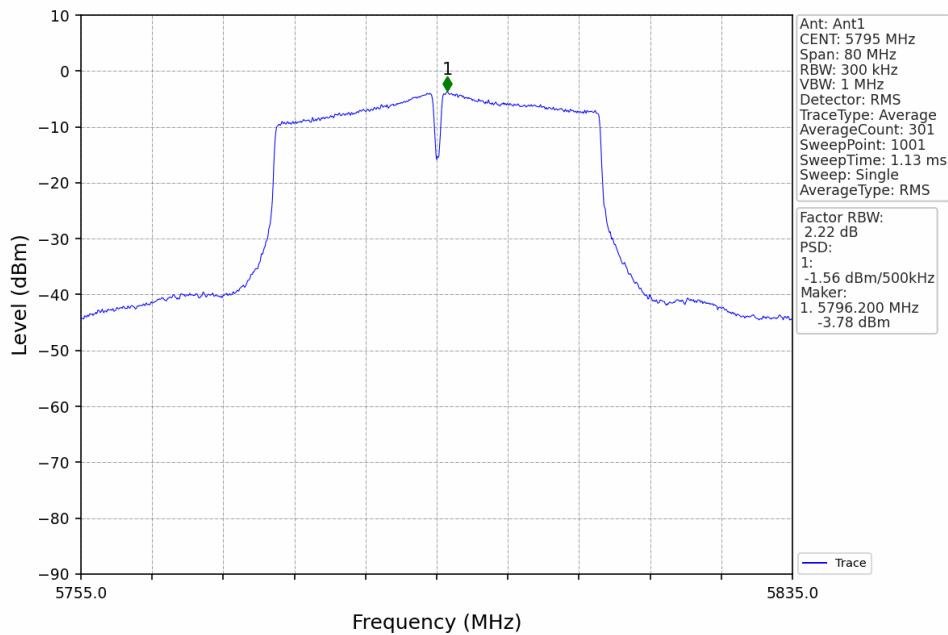
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**802.11n(HT40)\_HCH\_5795MHz\_Ant0\_NTNV****802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV**

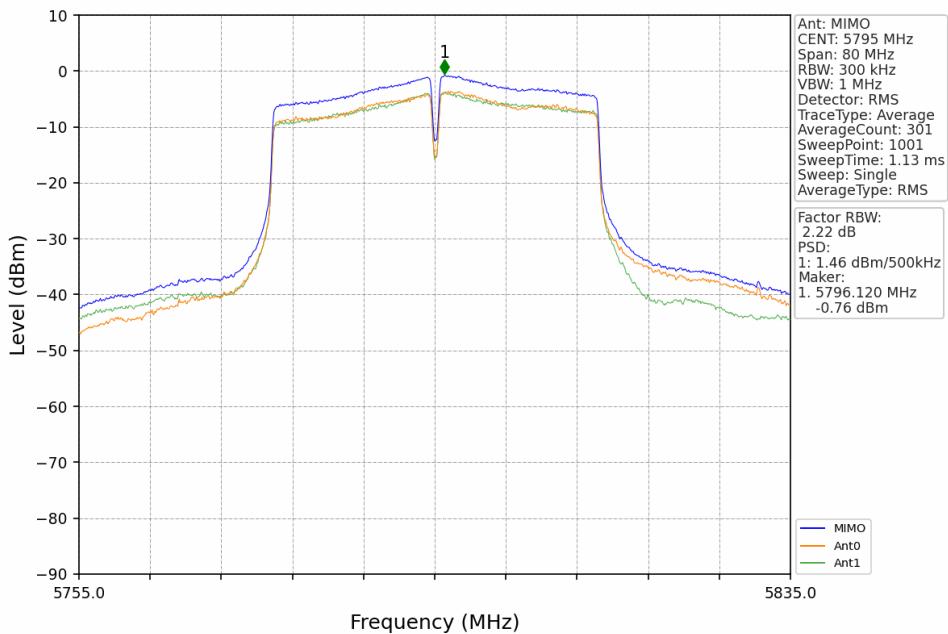
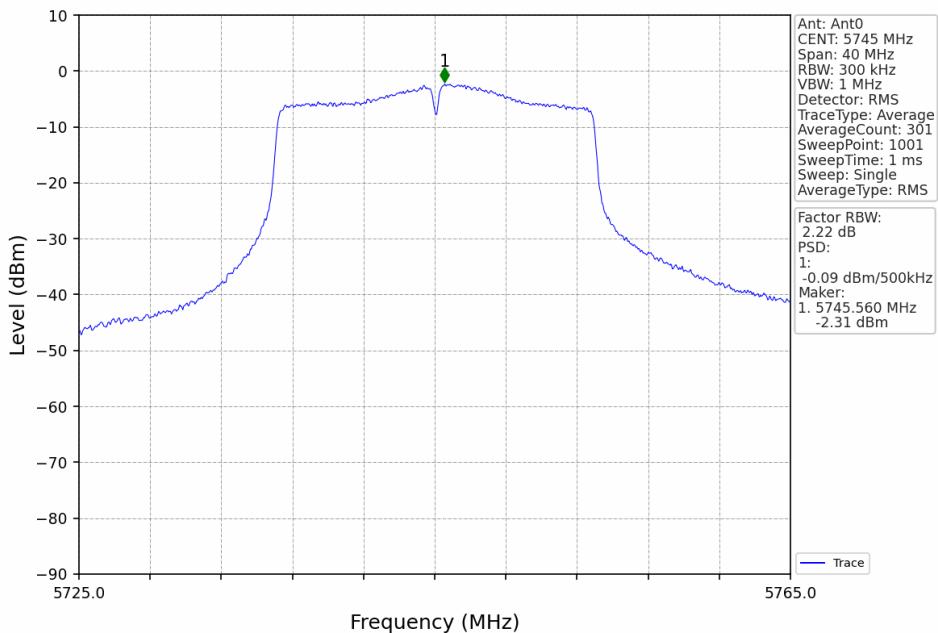
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**802.11n(HT40)\_HCH\_5795MHz\_MIMO\_NTNV****802.11ac(VHT20)\_LCH\_5745MHz\_Ant0\_NTNV**

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