

## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.360	1.558	87.29	0.59	0.03
		5200	1.360	1.558	87.29	0.59	0.03
		5240	1.360	1.559	87.24	0.59	0.03
		5260	1.360	1.558	87.29	0.59	0.03
		5300	1.360	1.558	87.29	0.59	0.03
		5320	1.360	1.558	87.29	0.59	0.03
		5500	1.360	1.558	87.29	0.59	0.03
		5580	1.361	1.557	87.41	0.58	0.00
		5700	1.360	1.558	87.29	0.59	0.03
		5745	1.362	1.559	87.36	0.59	0.03
		5785	1.360	1.558	87.29	0.59	0.03
		5825	1.360	1.558	87.29	0.59	0.03
802.11n (HT20)	SISO	5180	1.272	1.470	86.53	0.63	0.03
		5200	1.271	1.470	86.46	0.63	0.03
		5240	1.272	1.470	86.53	0.63	0.03
		5260	1.272	1.470	86.53	0.63	0.03
		5300	1.272	1.470	86.53	0.63	0.03
		5320	1.272	1.470	86.53	0.63	0.03
		5500	1.272	1.470	86.53	0.63	0.03
		5580	1.272	1.470	86.53	0.63	0.03
		5700	1.272	1.470	86.53	0.63	0.03
		5745	1.272	1.469	86.59	0.63	0.03
		5785	1.274	1.470	86.67	0.62	0.03
		5825	1.272	1.469	86.59	0.63	0.03
802.11n (HT40)	SISO	5190	0.632	0.832	75.96	1.19	0.03
		5230	0.632	0.832	75.96	1.19	0.03
		5270	0.632	0.832	75.96	1.19	0.03
		5310	0.632	0.831	76.05	1.19	0.04

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SZEMC-TRF-01 Rev. A/1

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		5510	0.632	0.831	76.05	1.19	0.03
		5550	0.634	0.832	76.20	1.18	0.03
		5670	0.632	0.831	76.05	1.19	0.02
		5755	0.632	0.831	76.05	1.19	0.03
		5795	0.632	0.832	75.96	1.19	0.03
802.11ac (VHT20)	SISO	5180	0.976	1.174	83.13	0.80	0.03
		5200	1.033	1.231	83.92	0.76	0.04
		5240	1.032	1.230	83.90	0.76	0.04
		5260	1.032	1.230	83.90	0.76	0.03
		5300	1.032	1.230	83.90	0.76	0.04
		5320	1.032	1.230	83.90	0.76	0.04
		5500	0.976	1.174	83.13	0.80	0.03
		5580	1.033	1.231	83.92	0.76	0.04
		5700	1.033	1.231	83.92	0.76	0.03
		5745	0.976	1.174	83.13	0.80	0.03
		5785	0.976	1.174	83.13	0.80	0.03
		5825	0.977	1.174	83.22	0.80	0.03
		5190	0.492	0.691	71.20	1.48	0.06
		5230	0.492	0.691	71.20	1.48	0.02
		5270	0.493	0.691	71.35	1.47	0.01
802.11ac (VHT40)	SISO	5310	0.493	0.692	71.24	1.47	0.01
		5510	0.492	0.691	71.20	1.48	0.03
		5550	0.493	0.692	71.24	1.47	0.03
		5670	0.492	0.691	71.20	1.48	0.06
		5755	0.492	0.691	71.20	1.48	0.03
		5795	0.492	0.691	71.20	1.48	0.04
		5210	0.253	0.447	56.60	2.47	0.05
		5290	0.249	0.448	55.58	2.55	0.12
		5530	0.249	0.447	55.70	2.54	0.04
802.11ac (VHT80)	SISO	5610	0.250	0.448	55.80	2.53	0.09
		5775	0.250	0.448	55.80	2.53	0.06

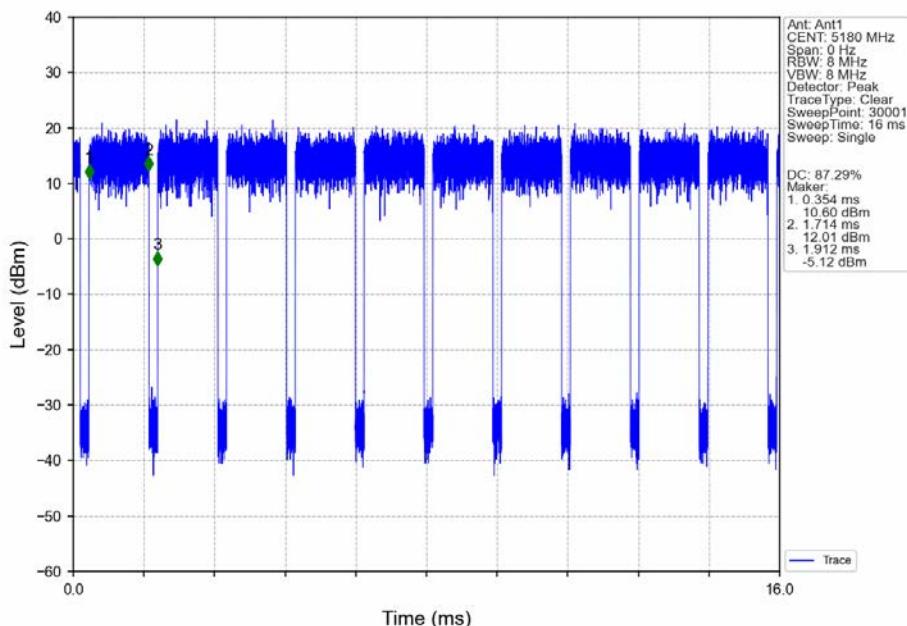
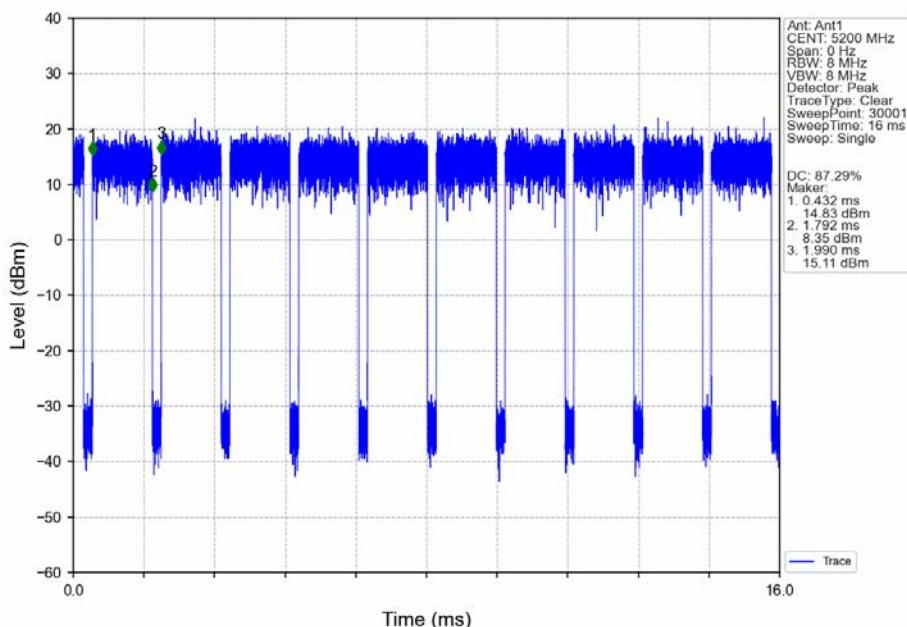
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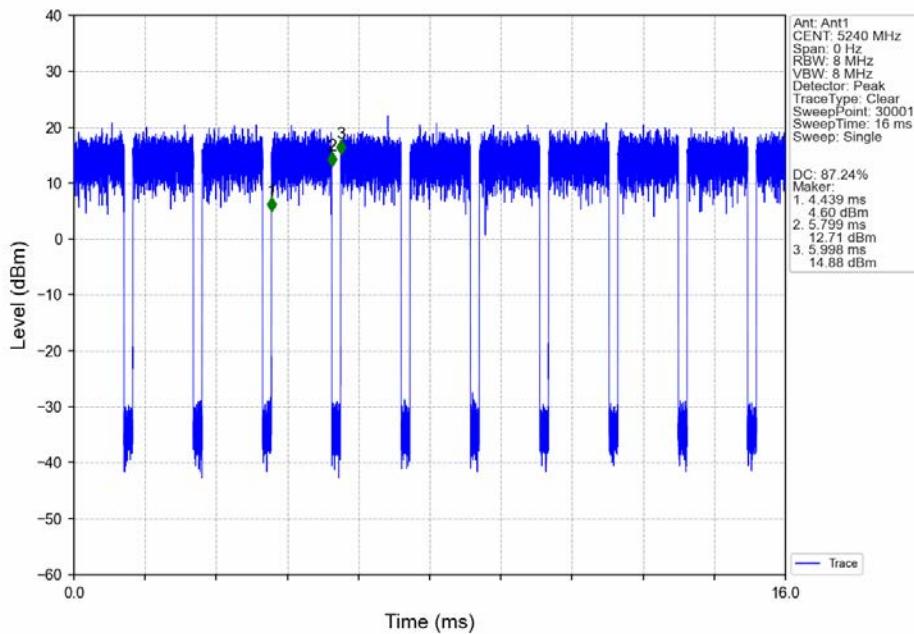
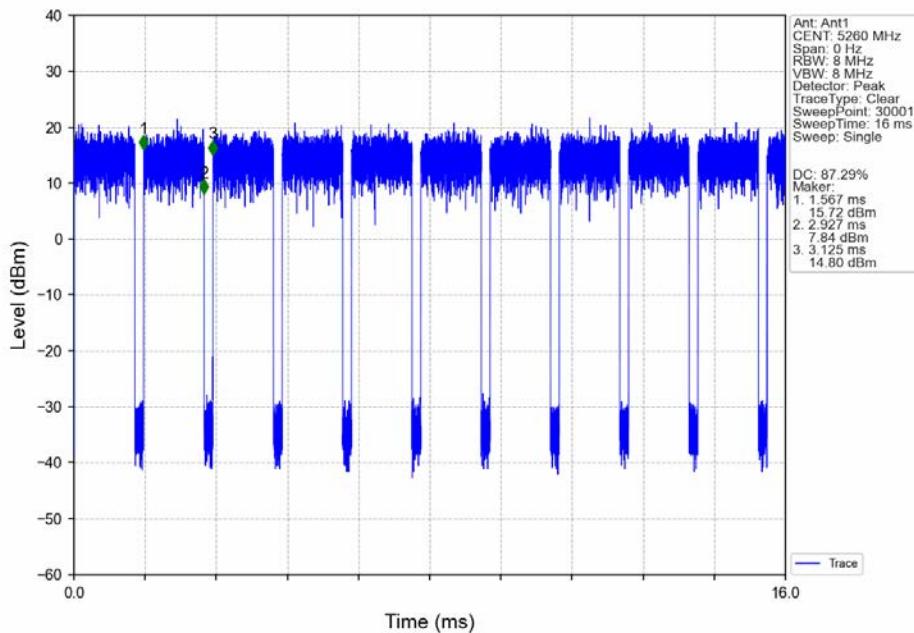
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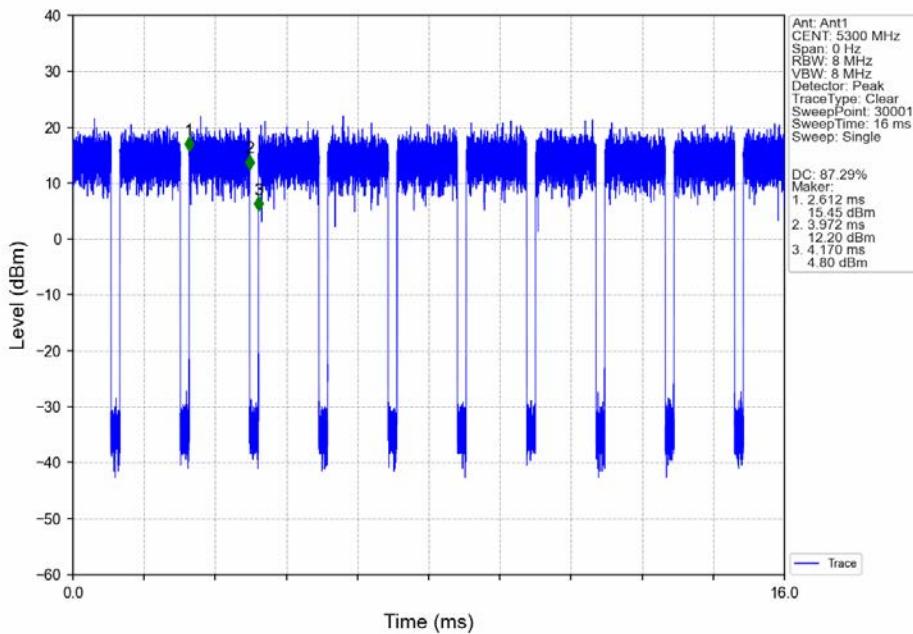
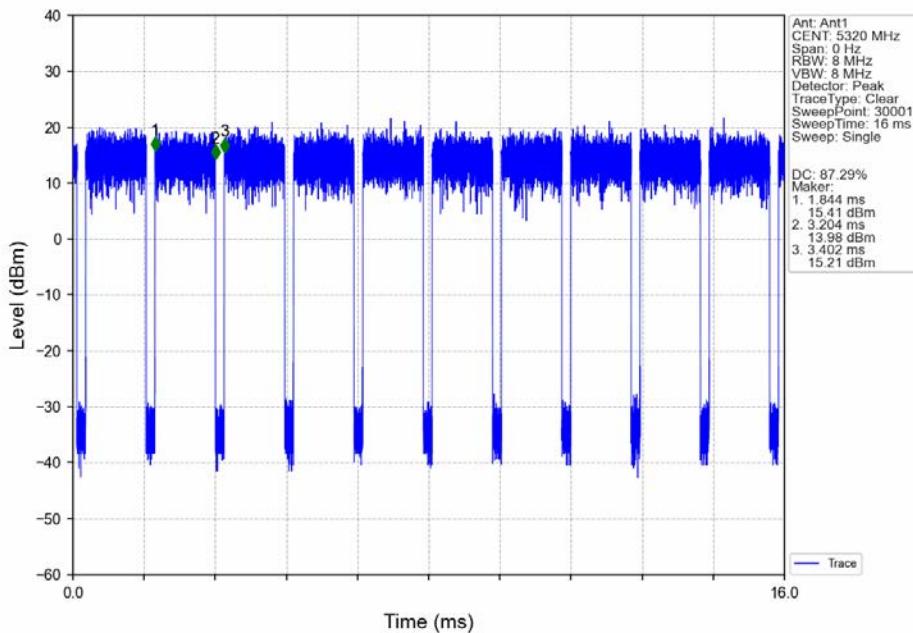


**1.2 Test Graph****1.2.1 Ant1****802.11a\_LCH\_5180MHz\_Ant1\_NTNV****802.11a\_MCH\_5200MHz\_Ant1\_NTNV**

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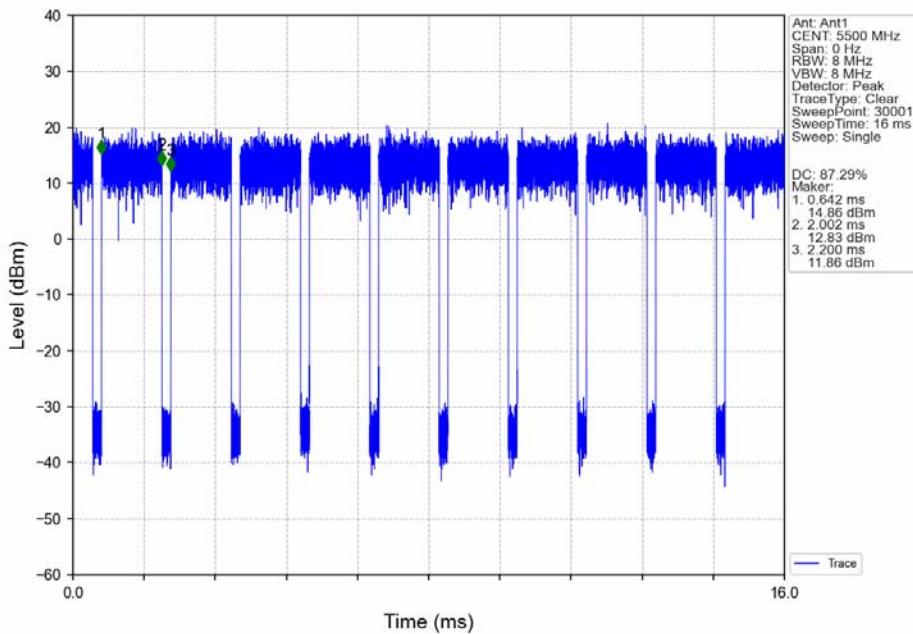
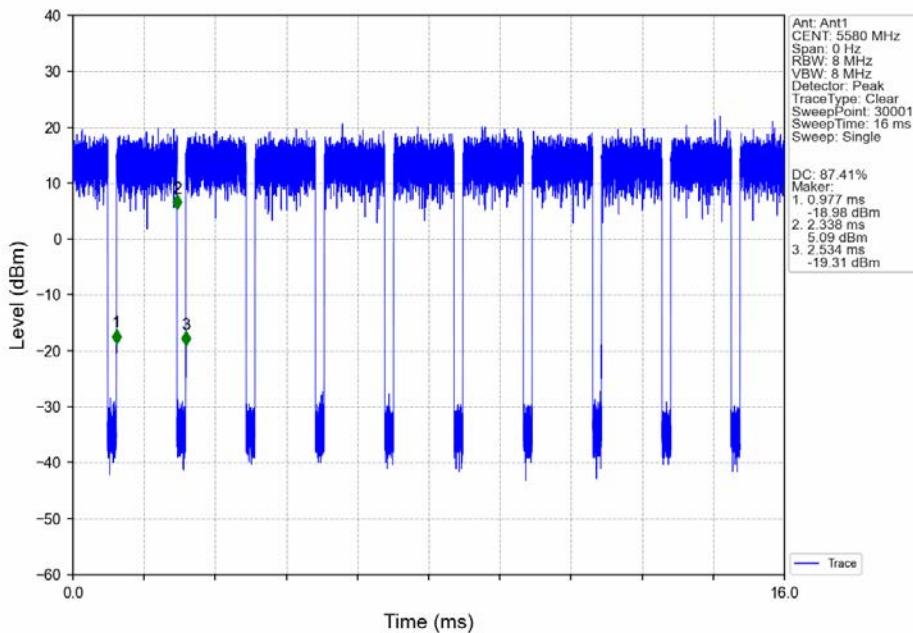
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**802.11a\_HCH\_5240MHz\_Ant1\_NTNV****802.11a\_LCH\_5260MHz\_Ant1\_NTNV**

**802.11a\_MCH\_5300MHz\_Ant1\_NTNV****802.11a\_HCH\_5320MHz\_Ant1\_NTNV**

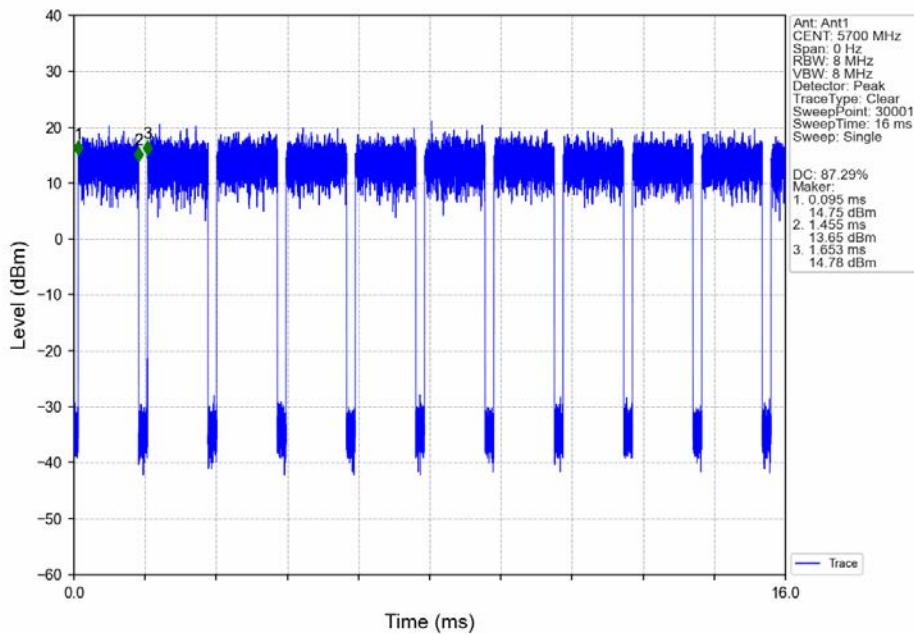
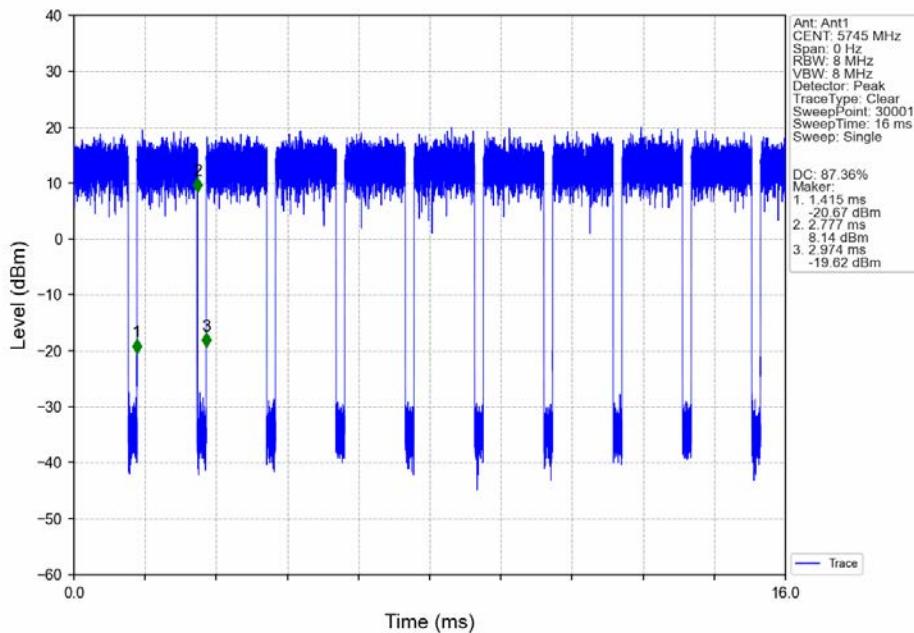
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**802.11a\_LCH\_5500MHz\_Ant1\_NTNV****802.11a\_MCH\_5580MHz\_Ant1\_NTNV**

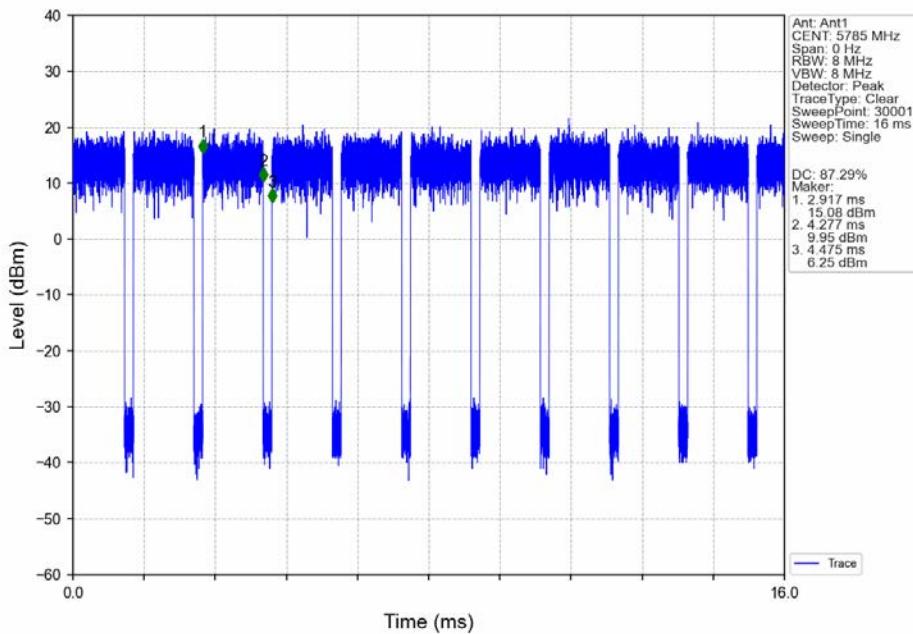
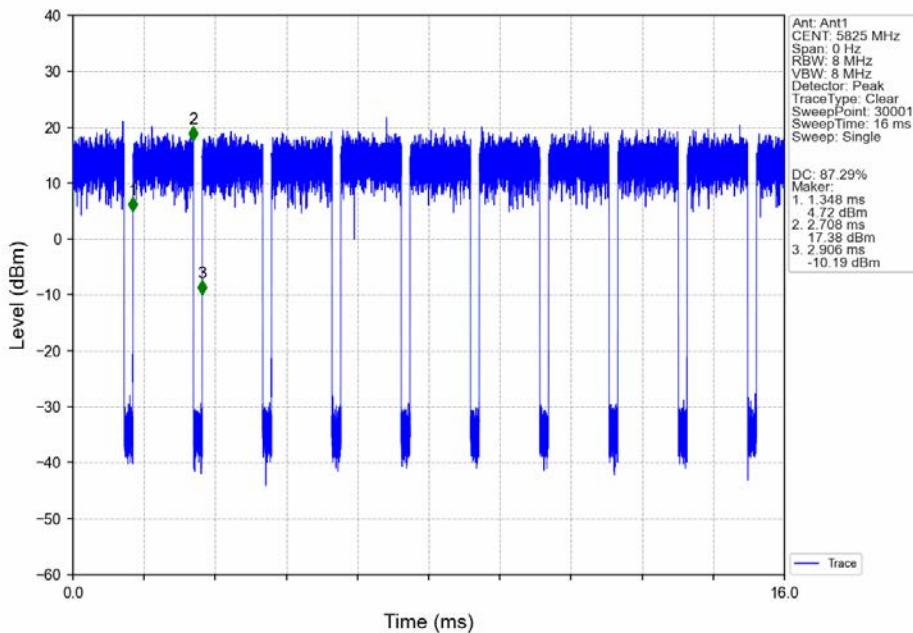
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**802.11a\_HCH\_5700MHz\_Ant1\_NTNV****802.11a\_LCH\_5745MHz\_Ant1\_NTNV**

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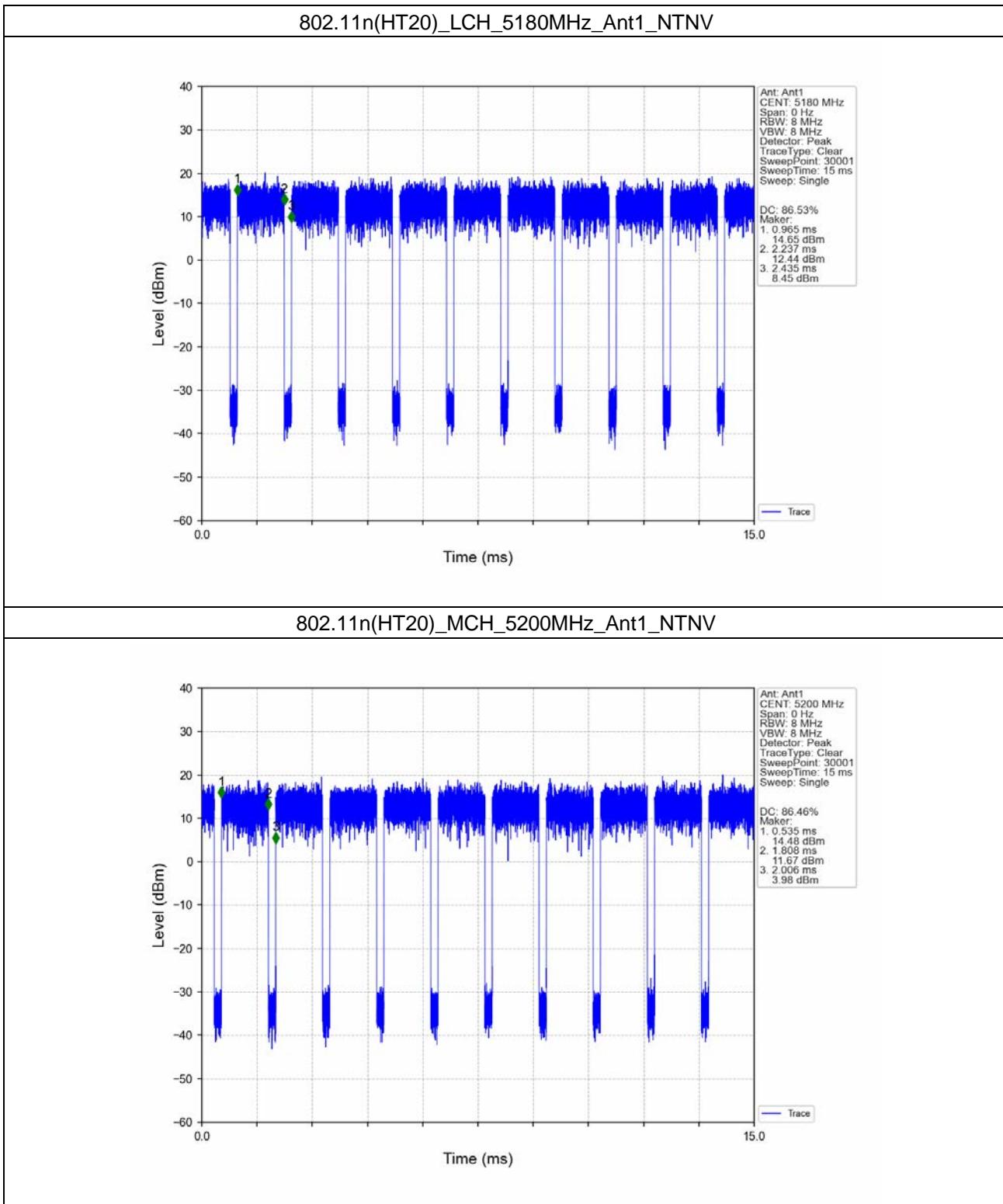
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**802.11a\_MCH\_5785MHz\_Ant1\_NTNV****802.11a\_HCH\_5825MHz\_Ant1\_NTNV**

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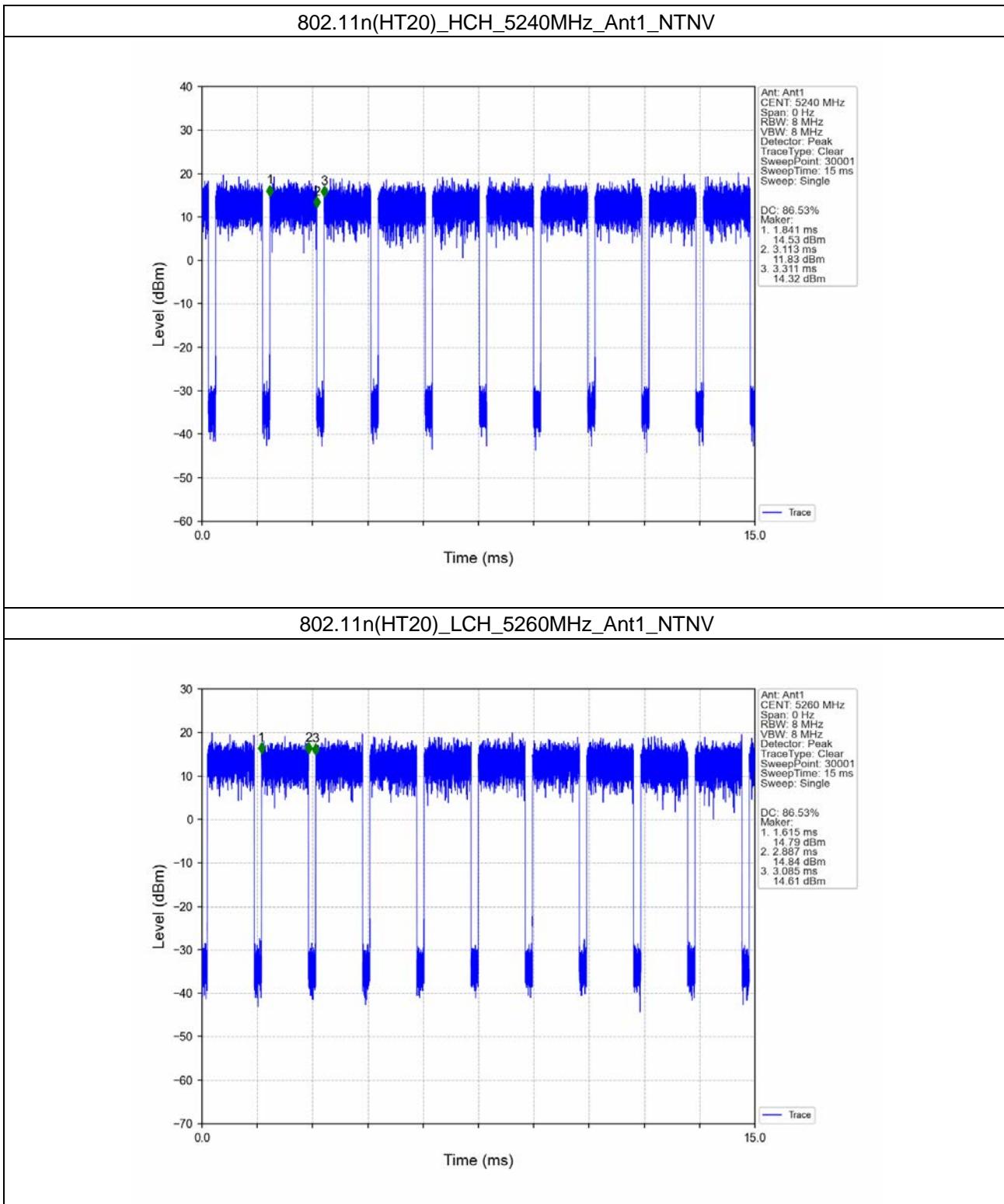
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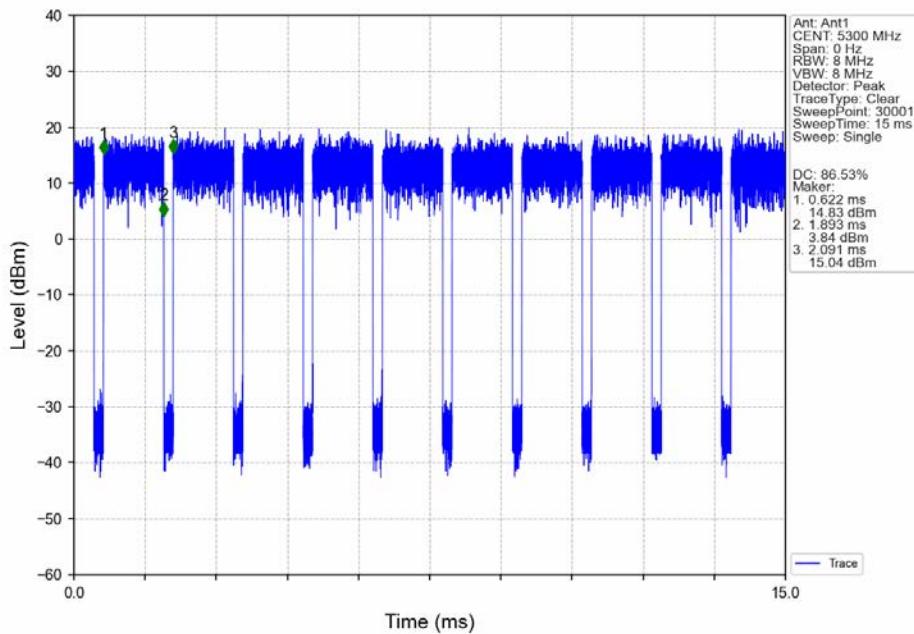
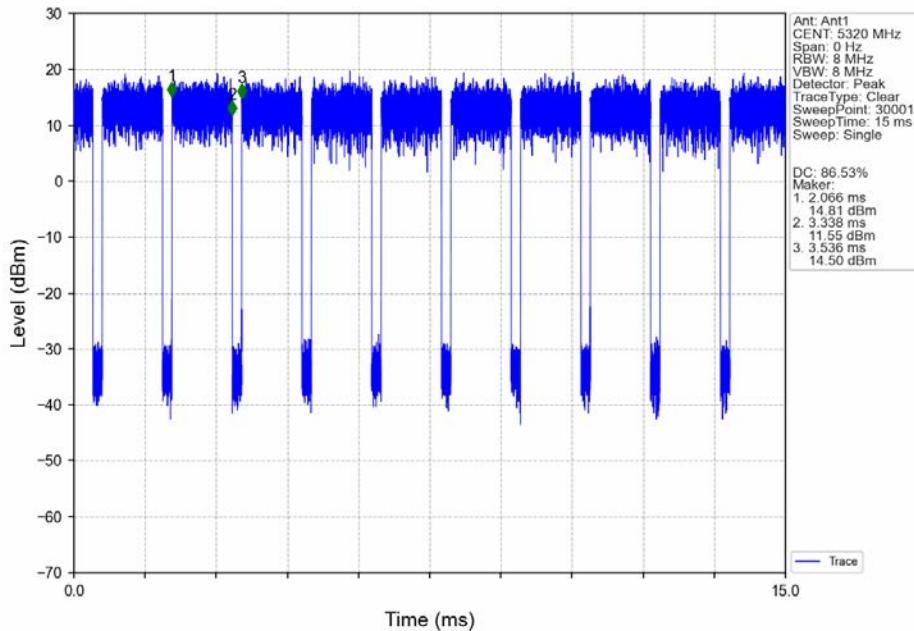
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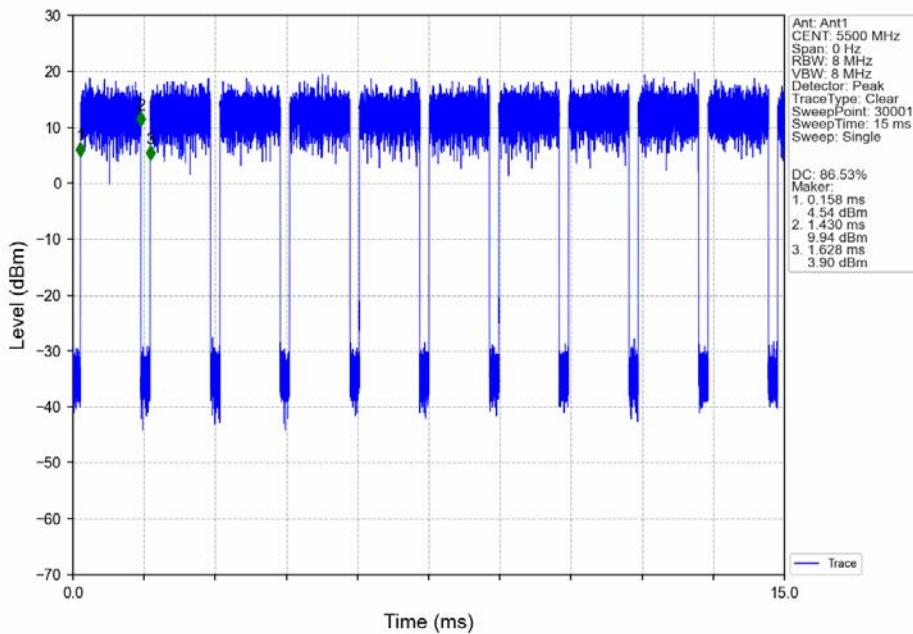
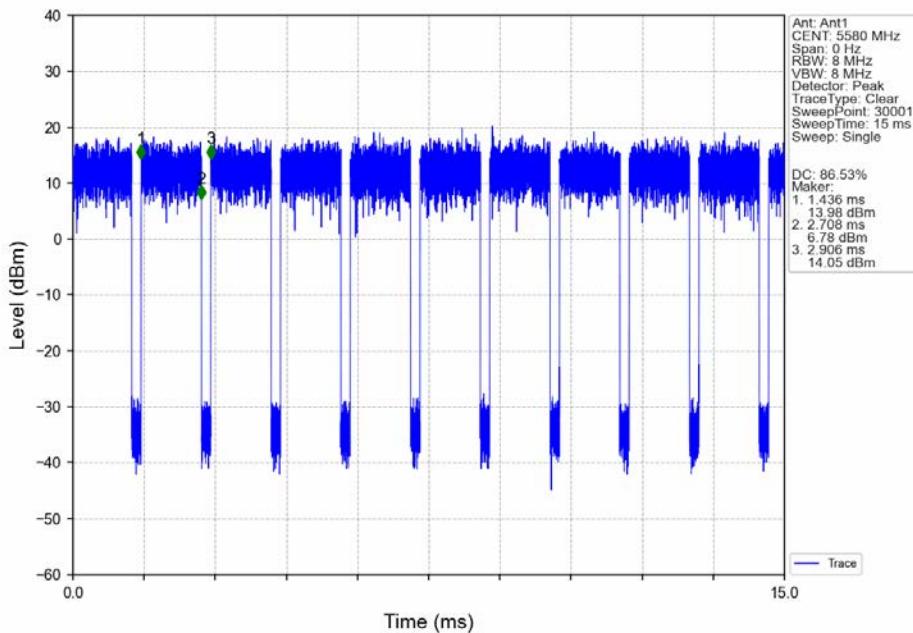
**802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV****802.11n(HT20)\_HCH\_5320MHz\_Ant1\_NTNV**

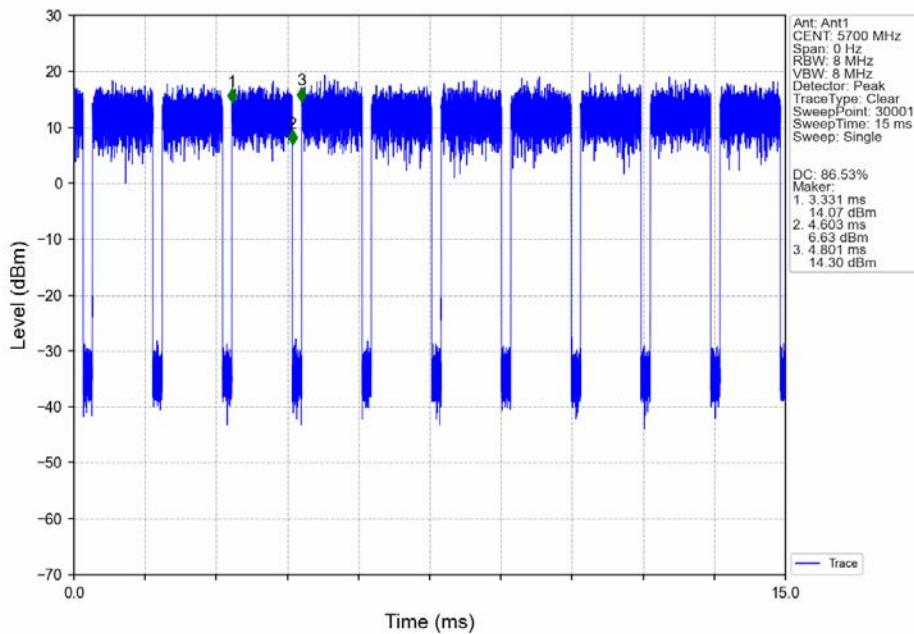
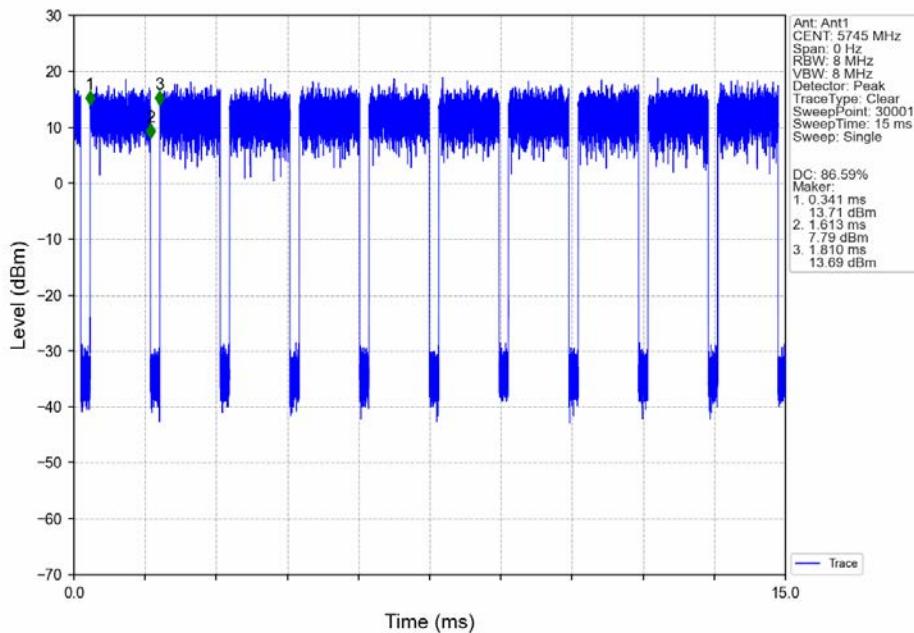
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**802.11n(HT20)\_LCH\_5500MHz\_Ant1\_NTNV****802.11n(HT20)\_MCH\_5580MHz\_Ant1\_NTNV**

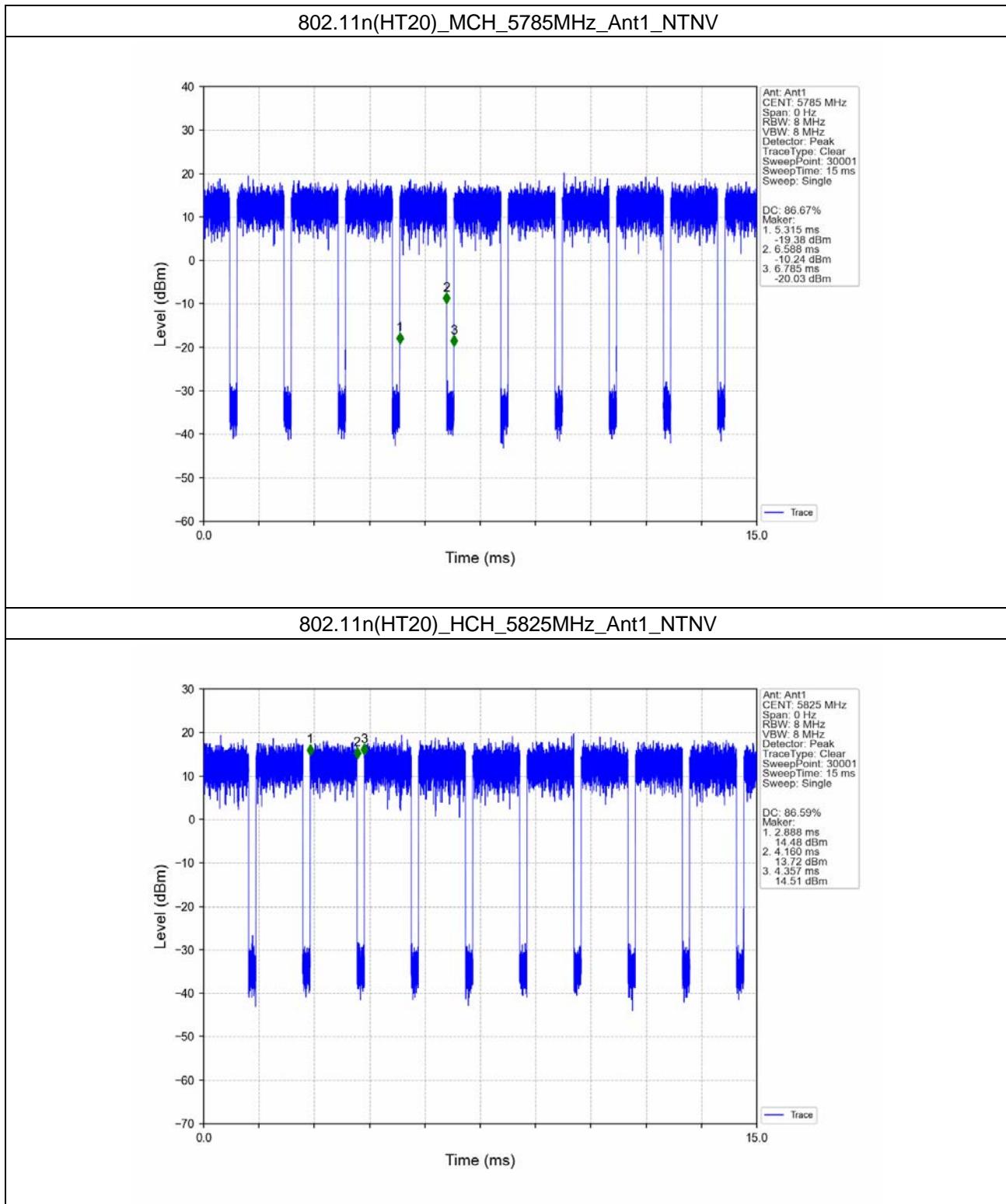
**802.11n(HT20)\_HCH\_5700MHz\_Ant1\_NTNV****802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV**

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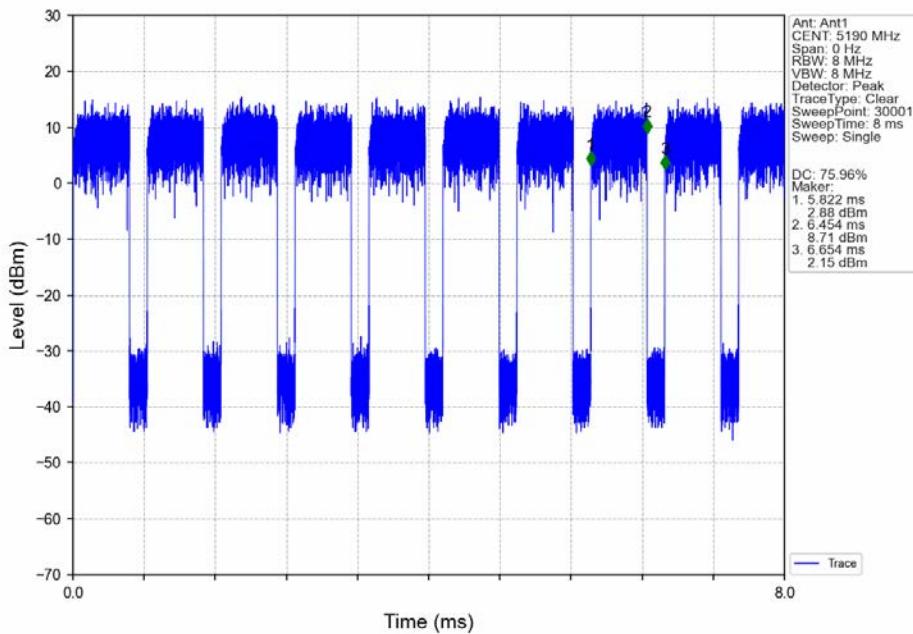
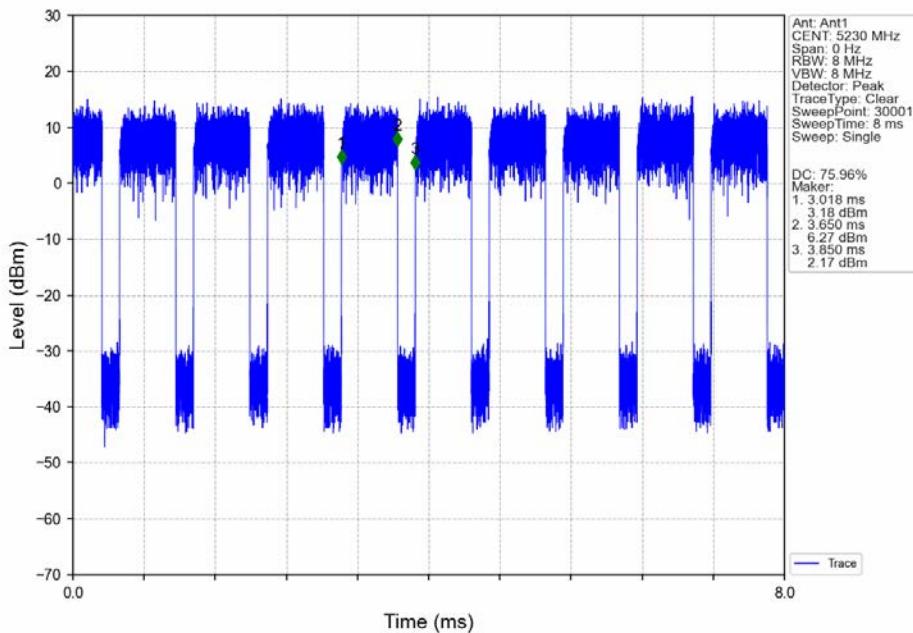


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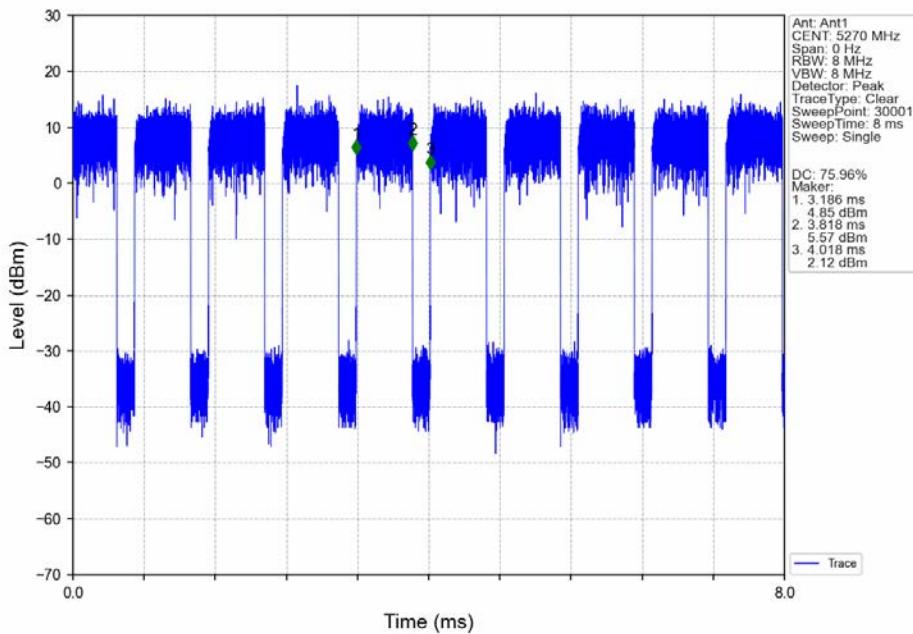
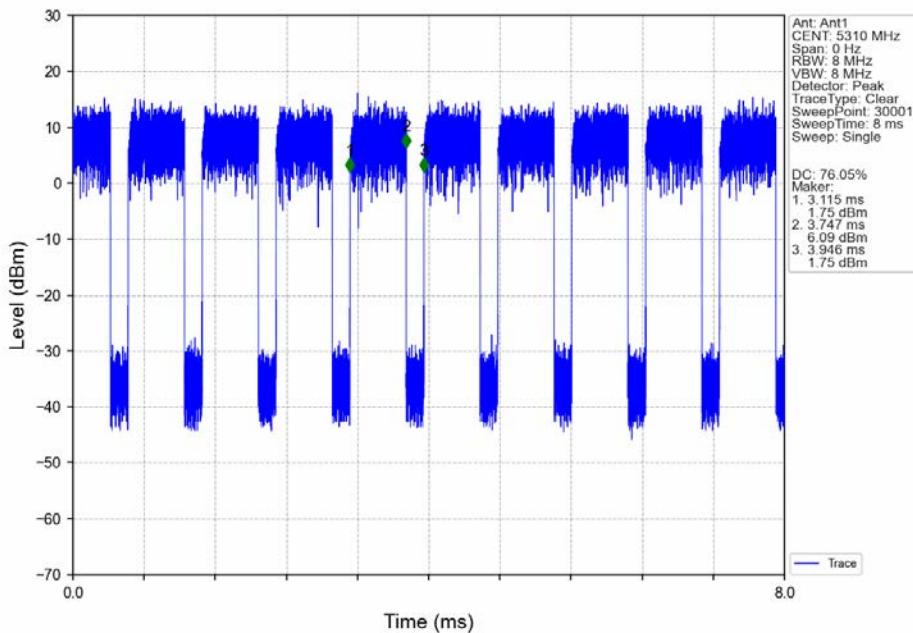
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**802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV****802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV**

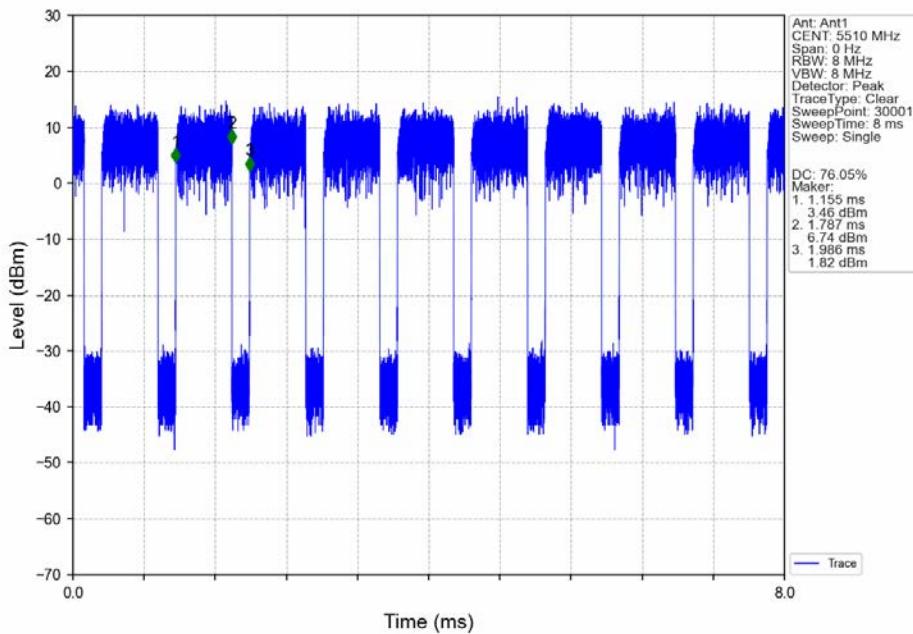
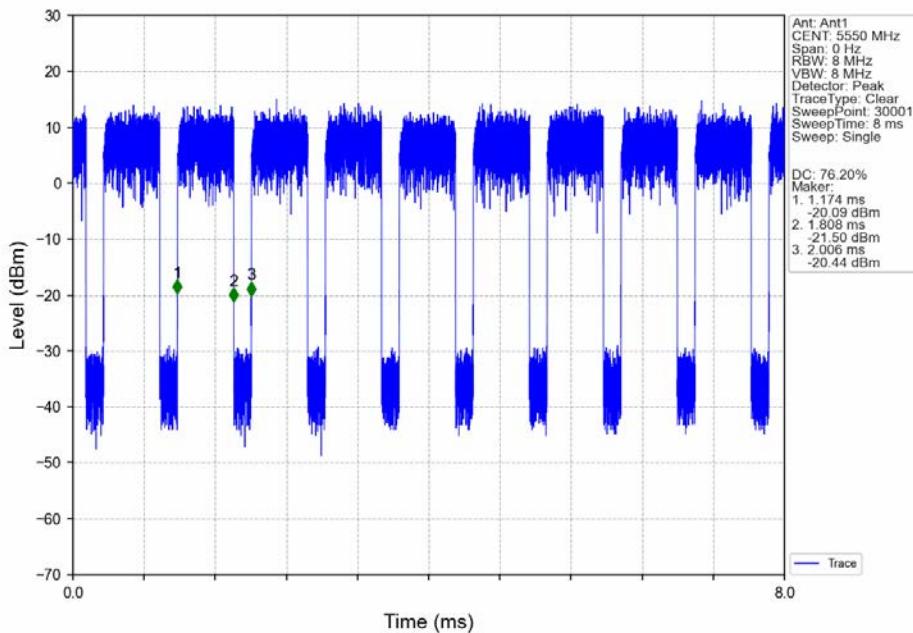
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**802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV****802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV**

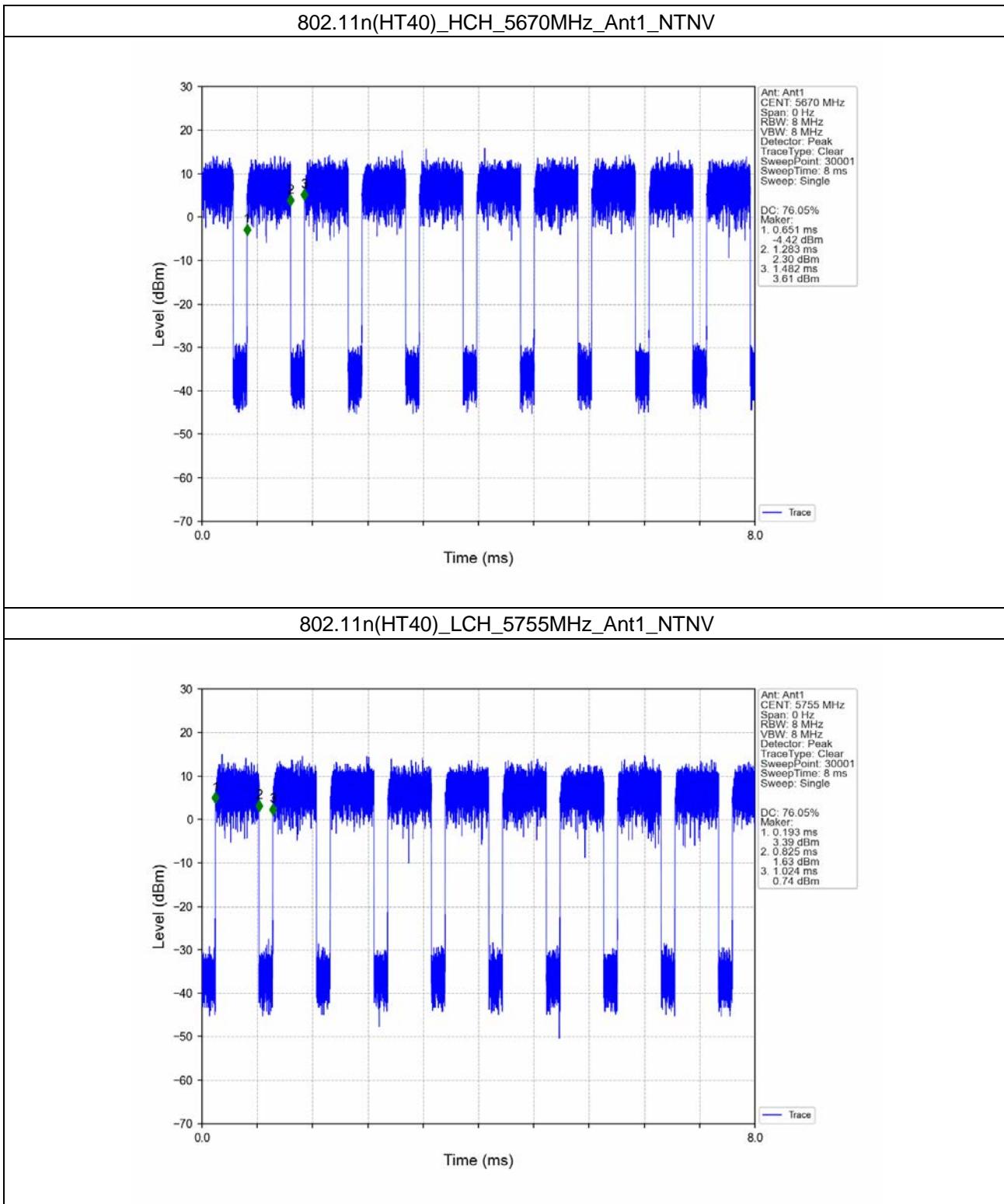
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**802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV****802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV**

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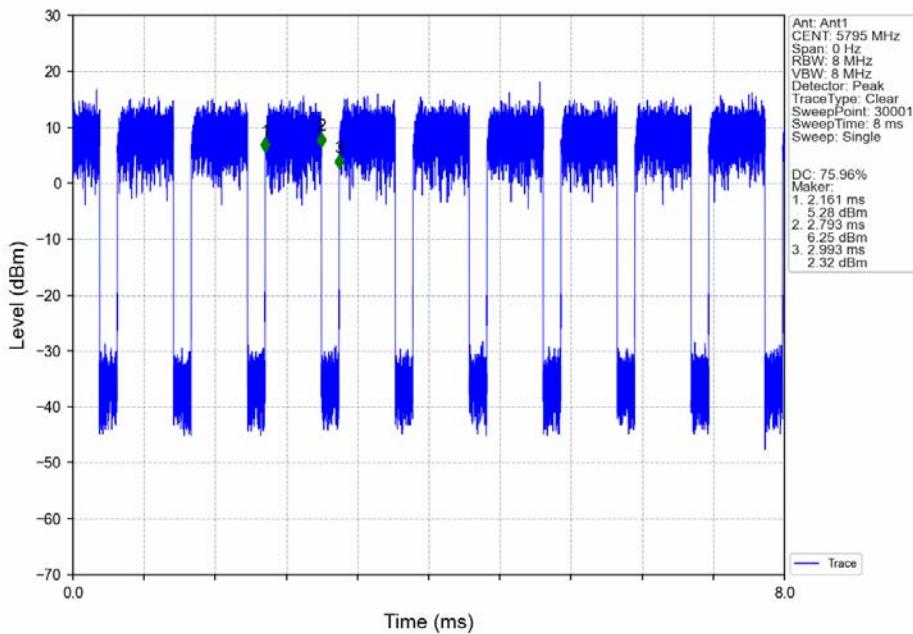
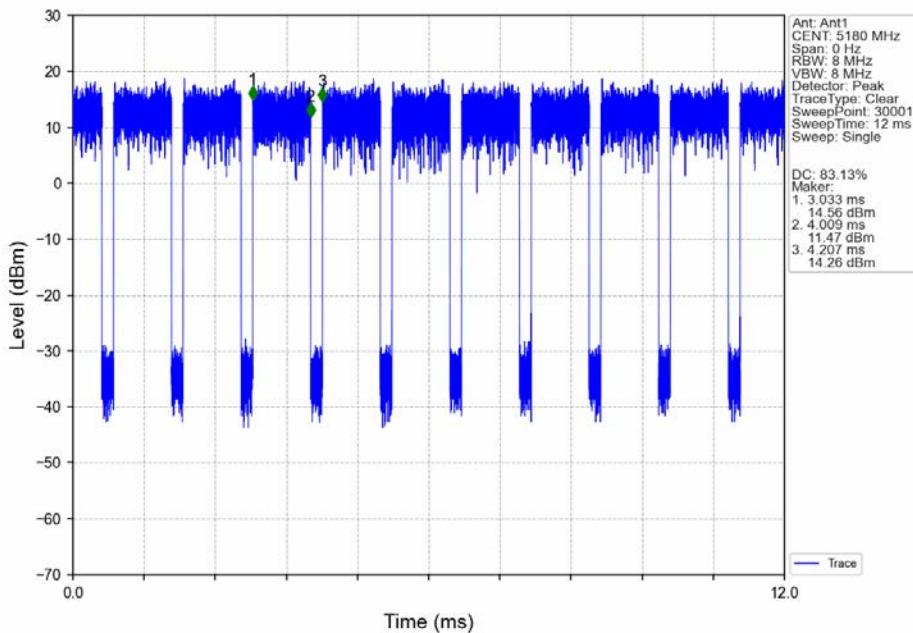


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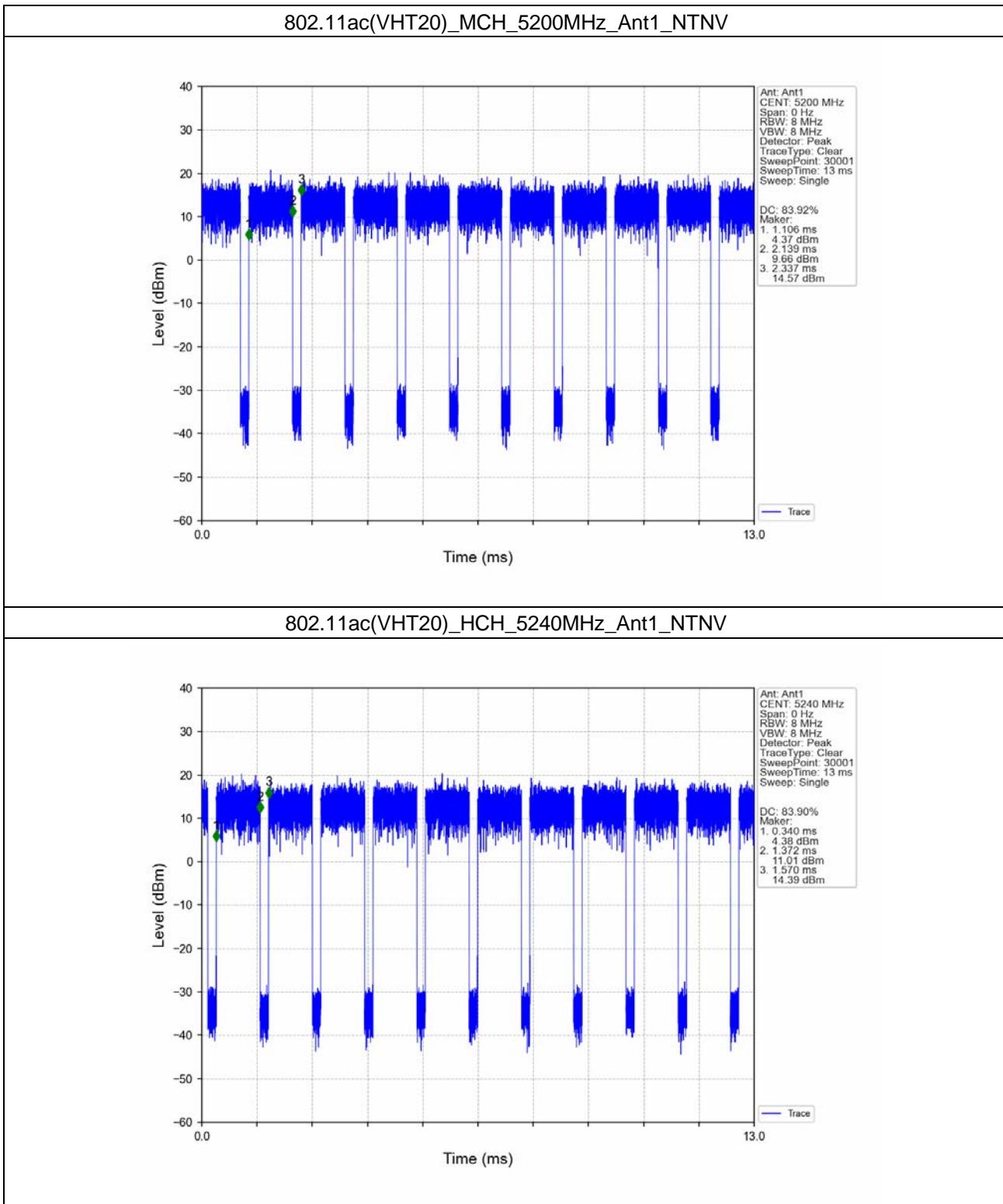
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**802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV****802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV**

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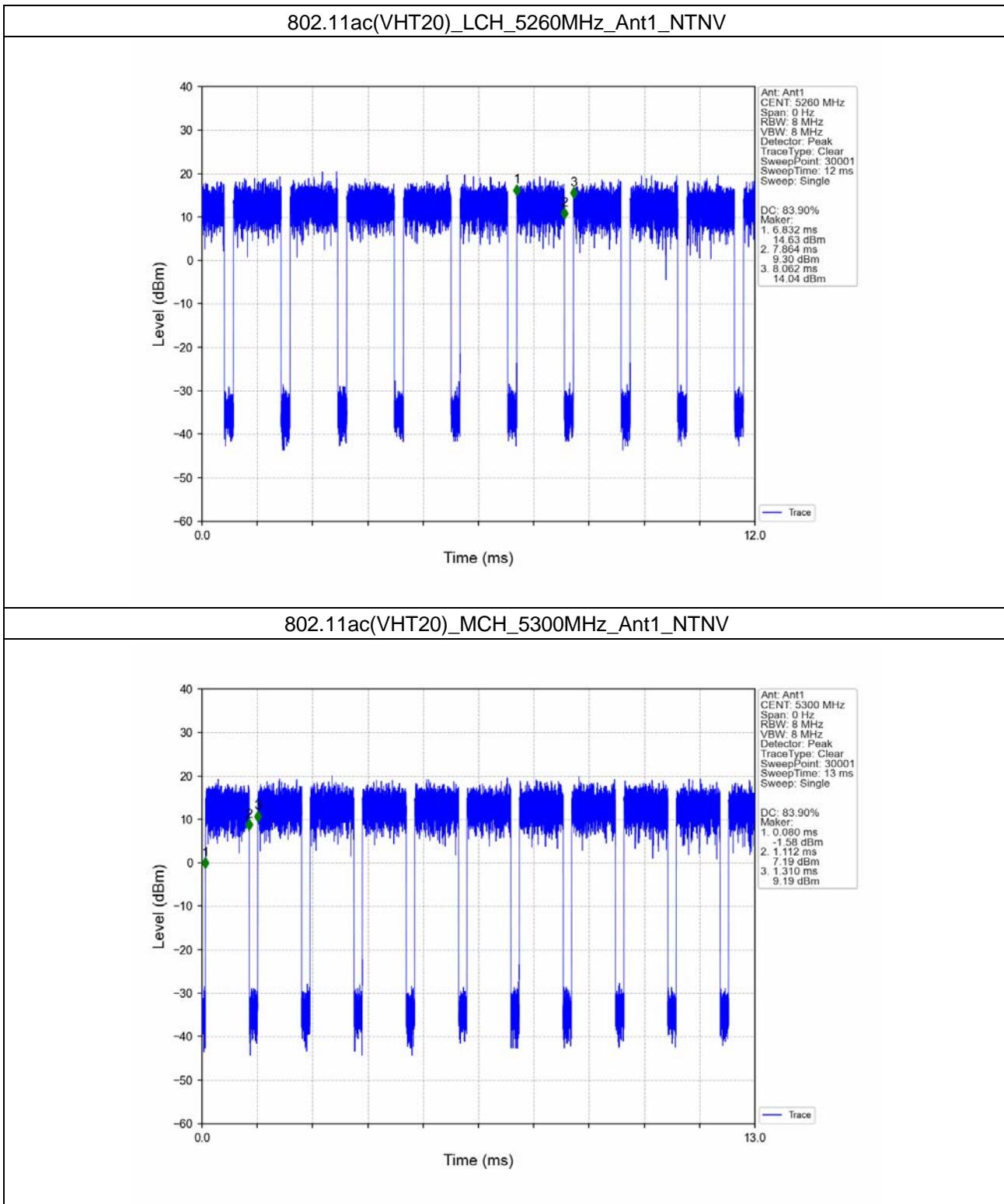
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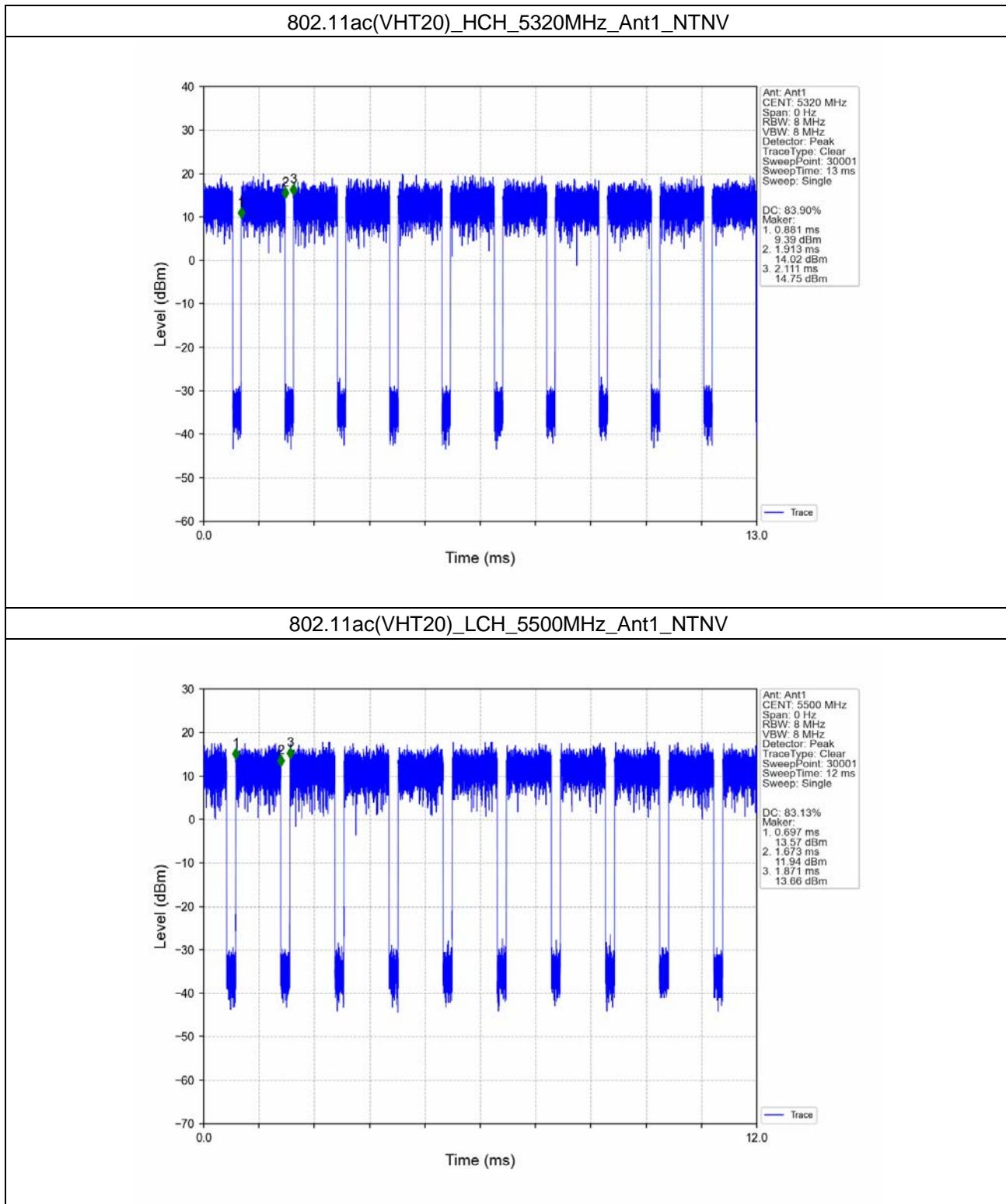




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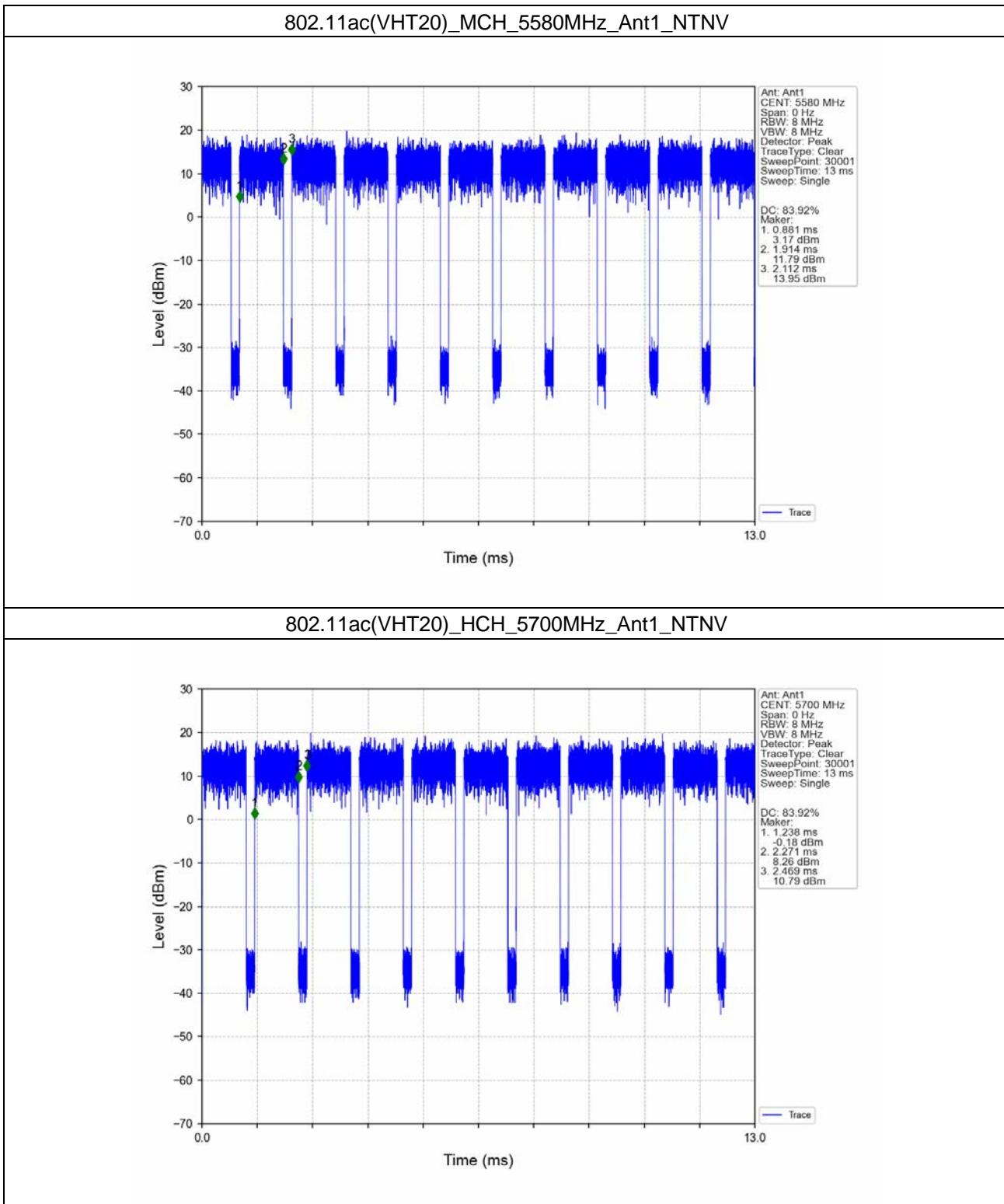
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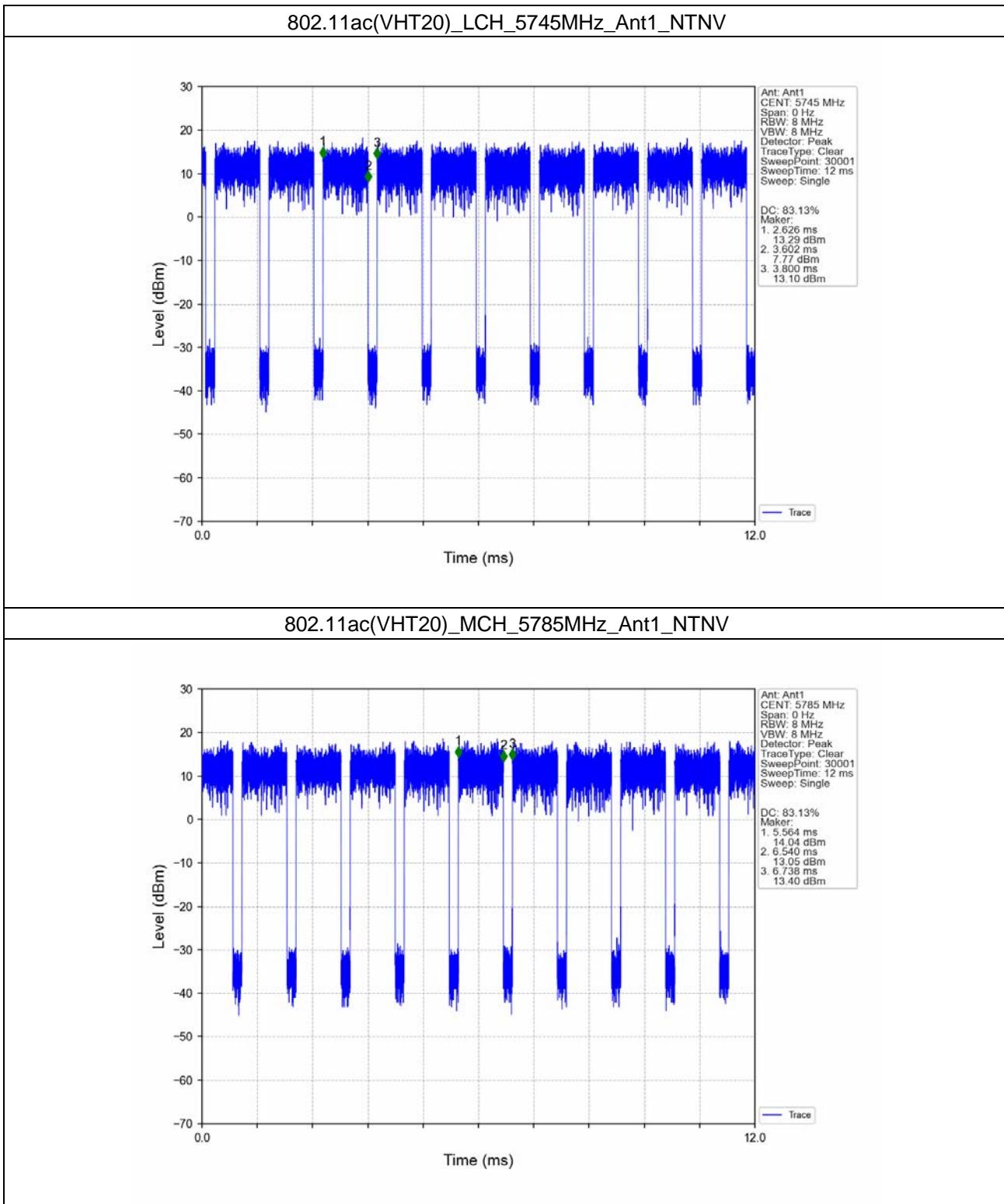
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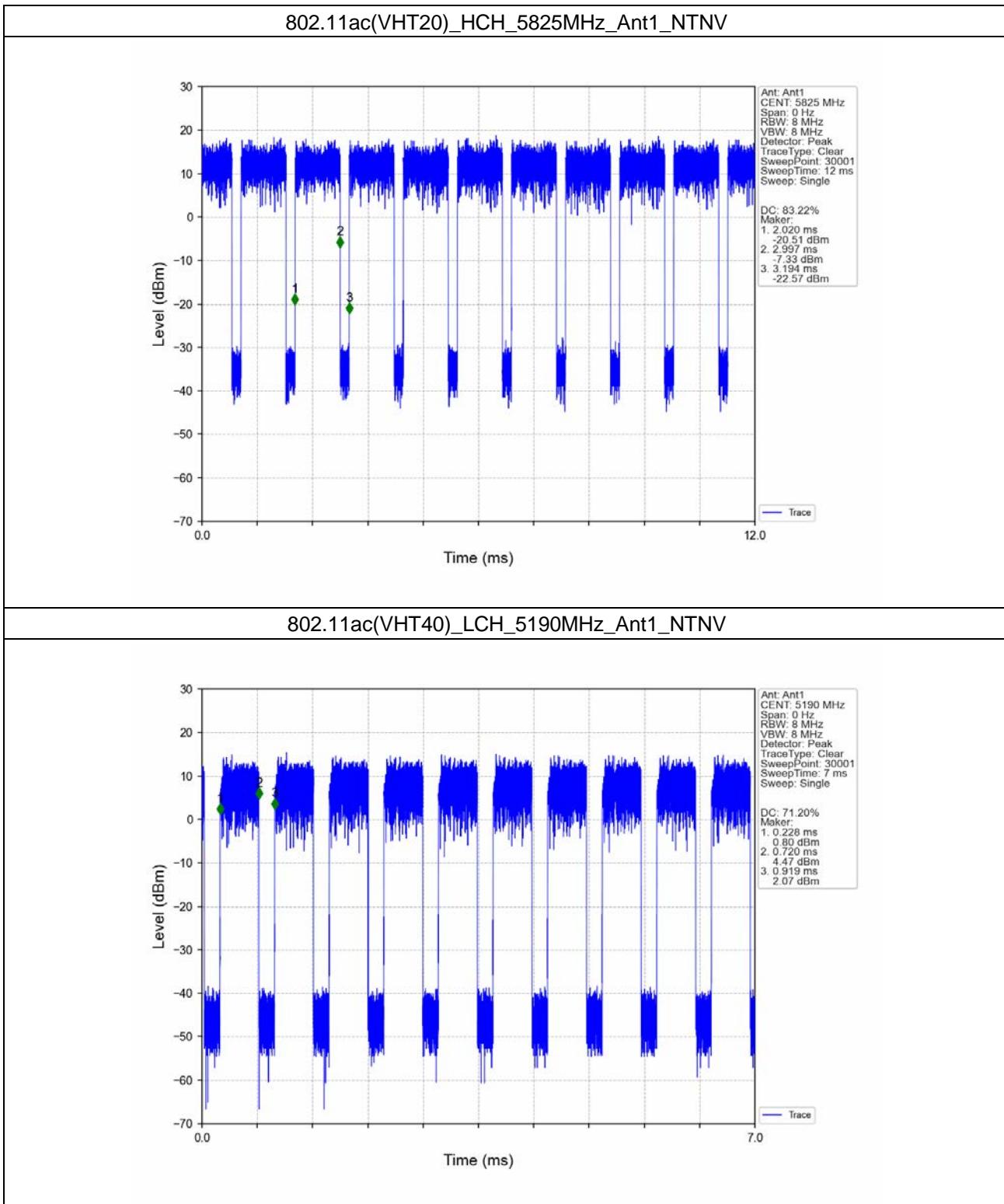


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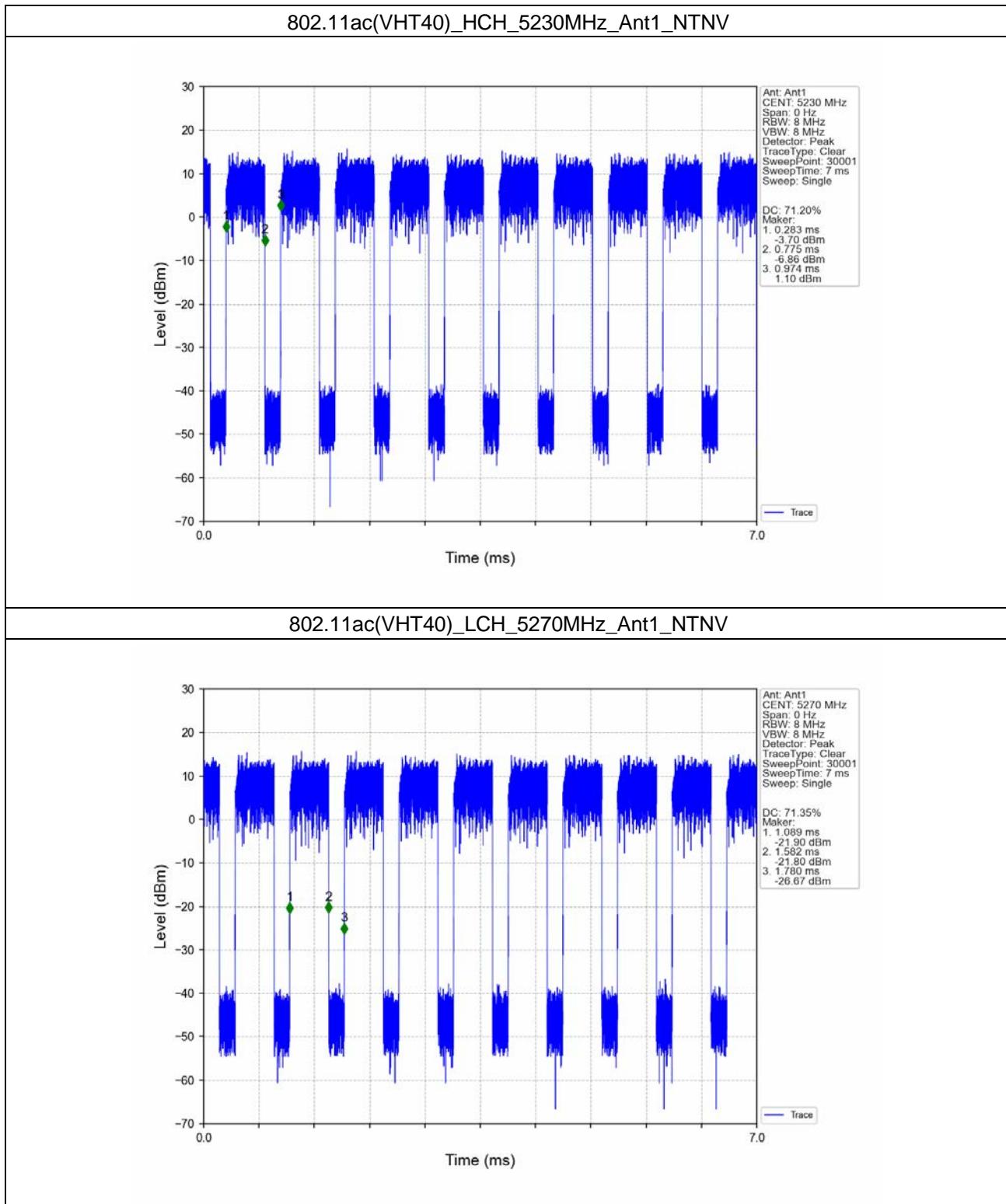


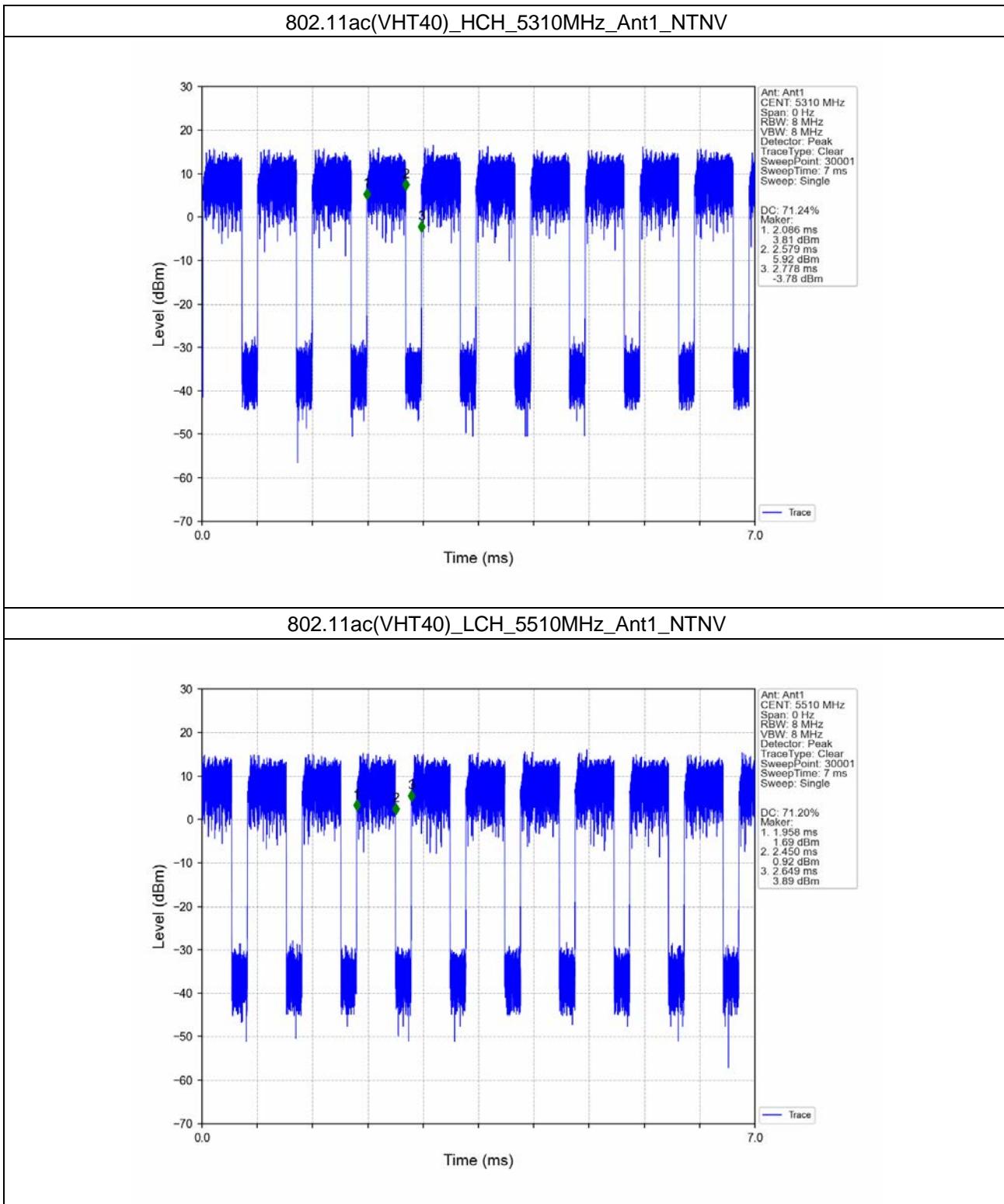


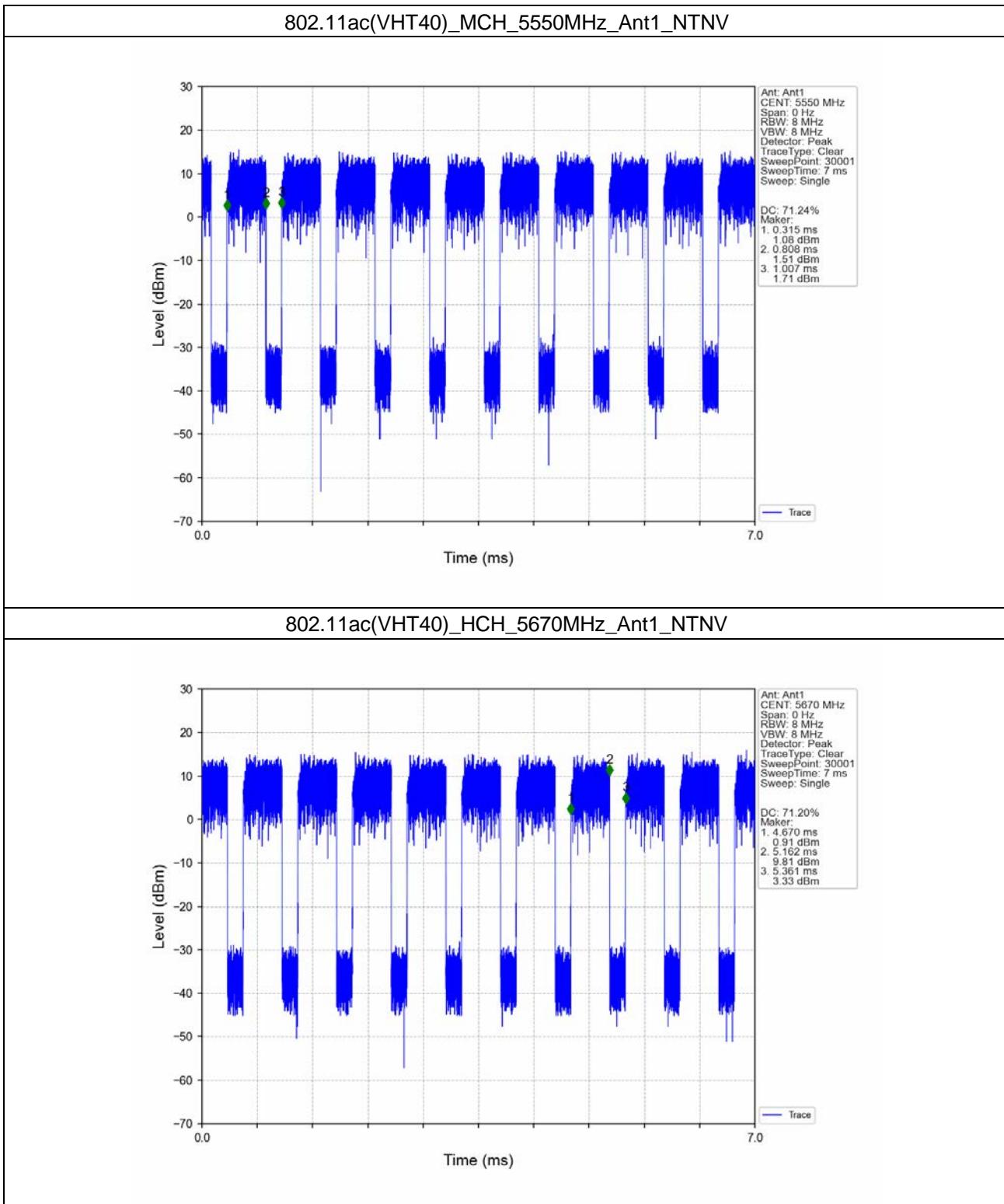


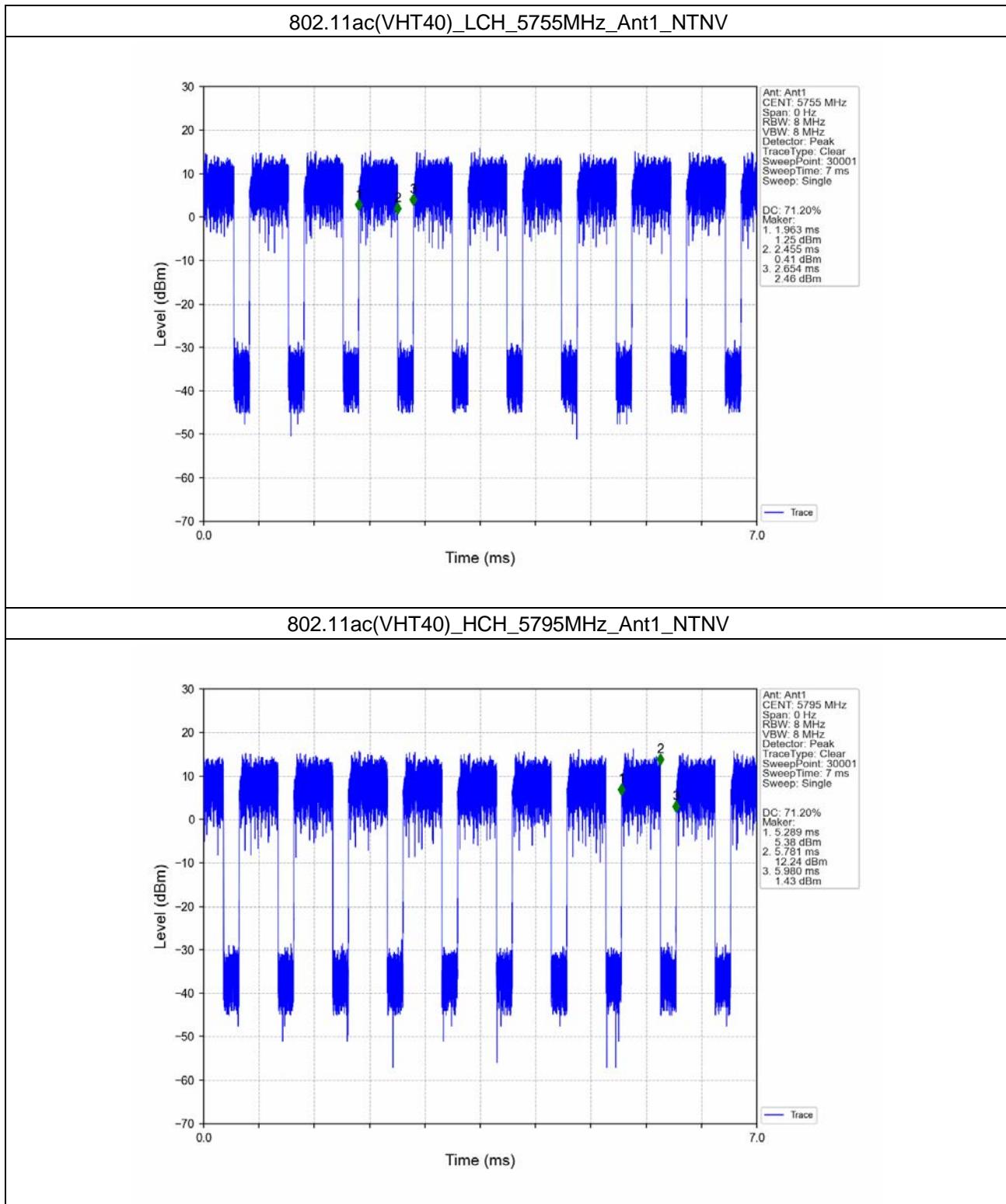
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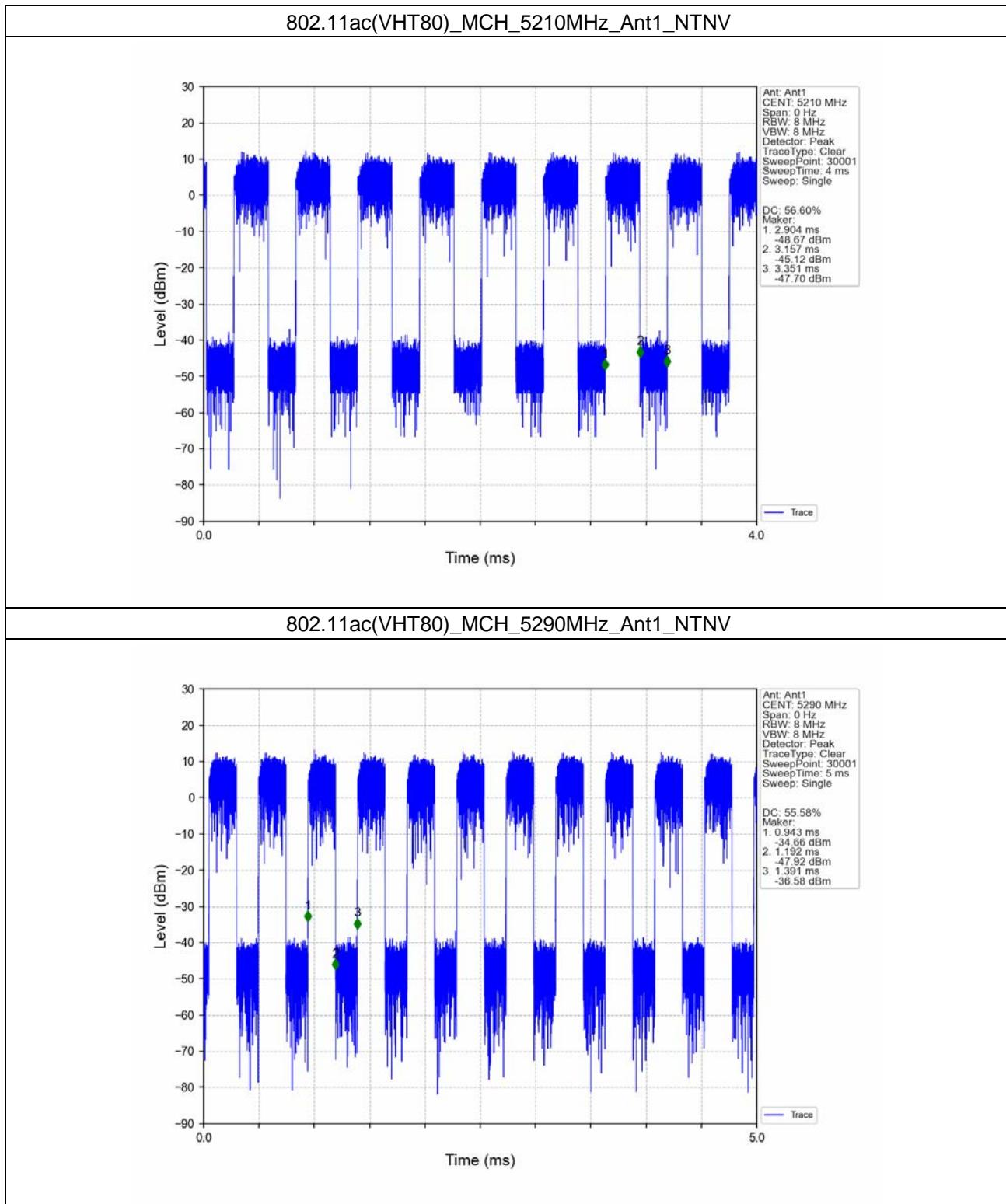






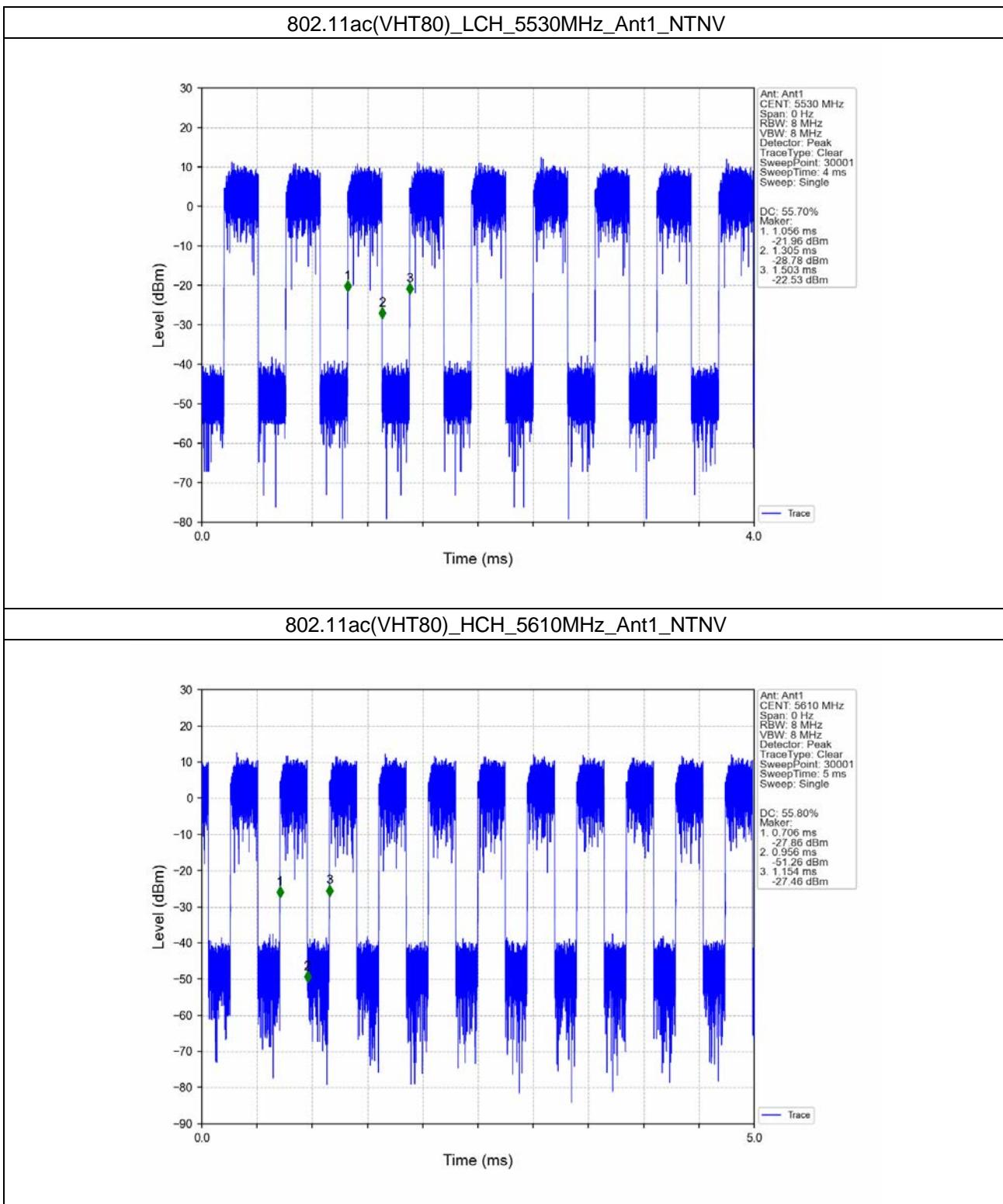
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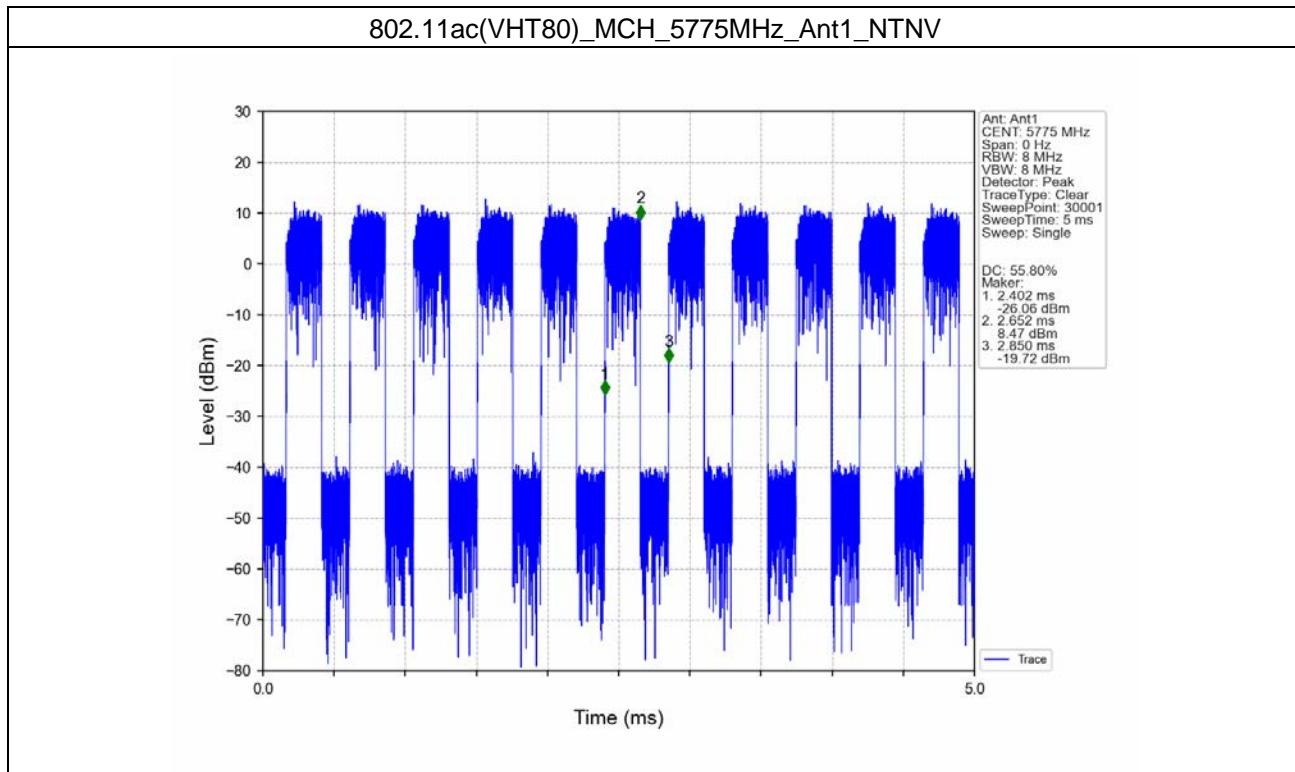
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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	18.365	/	Pass
		5200	1	18.387	/	Pass
		5240	1	18.313	/	Pass
		5260	1	18.278	/	Pass
		5300	1	18.278	/	Pass
		5320	1	18.208	/	Pass
		5500	1	18.153	/	Pass
		5580	1	18.153	/	Pass
		5700	1	18.219	/	Pass
		5745	1	18.300	/	Pass
		5785	1	18.323	/	Pass
		5825	1	18.186	/	Pass
802.11n (HT20)	SISO	5180	1	18.955	/	Pass
		5200	1	18.968	/	Pass
		5240	1	18.943	/	Pass
		5260	1	19.007	/	Pass
		5300	1	18.940	/	Pass
		5320	1	18.951	/	Pass
		5500	1	18.865	/	Pass
		5580	1	18.914	/	Pass
		5700	1	18.907	/	Pass
		5745	1	18.936	/	Pass
		5785	1	18.896	/	Pass
		5825	1	18.971	/	Pass
802.11n (HT40)	SISO	5190	1	37.011	/	Pass
		5230	1	37.089	/	Pass
		5270	1	36.949	/	Pass
		5310	1	36.938	/	Pass
		5510	1	37.109	/	Pass
		5550	1	37.122	/	Pass
		5670	1	36.924	/	Pass
		5755	1	37.036	/	Pass

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		5795	1	37.176	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.885	/	Pass
		5200	1	18.232	/	Pass
		5240	1	18.265	/	Pass
		5260	1	18.130	/	Pass
		5300	1	18.151	/	Pass
		5320	1	18.270	/	Pass
		5500	1	18.795	/	Pass
		5580	1	18.168	/	Pass
		5700	1	18.237	/	Pass
		5745	1	19.068	/	Pass
		5785	1	18.861	/	Pass
		5825	1	18.887	/	Pass
802.11ac (VHT40)	SISO	5190	1	37.040	/	Pass
		5230	1	36.935	/	Pass
		5270	1	36.822	/	Pass
		5310	1	36.947	/	Pass
		5510	1	36.940	/	Pass
		5550	1	36.979	/	Pass
		5670	1	37.015	/	Pass
		5755	1	36.953	/	Pass
		5795	1	36.907	/	Pass
		5210	1	75.455	/	Pass
802.11ac (VHT80)	SISO	5290	1	75.391	/	Pass
		5530	1	75.377	/	Pass
		5610	1	75.491	/	Pass
		5775	1	75.402	/	Pass

## 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.442	>=0.5	Pass
		5785	1	16.416	>=0.5	Pass
		5825	1	16.426	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.636	>=0.5	Pass
		5785	1	17.659	>=0.5	Pass
		5825	1	17.646	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	35.389	>=0.5	Pass
		5795	1	35.210	>=0.5	Pass

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Shenzhen Branch (SGS-CSTC) Laboratory

Member of the SGS Group (SGS SA)

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

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802.11ac (VHT20)	SISO	5745	1	17.638	>=0.5	Pass
		5785	1	17.648	>=0.5	Pass
		5825	1	17.637	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.191	>=0.5	Pass
		5795	1	35.195	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.127	>=0.5	Pass

## 2.1.3 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	22.648	/	Pass
		5200	1	22.296	/	Pass
		5240	1	22.931	/	Pass
		5260	1	21.831	/	Pass
		5300	1	22.245	/	Pass
		5320	1	21.831	/	Pass
		5500	1	21.732	/	Pass
		5580	1	21.714	/	Pass
		5700	1	22.007	/	Pass
802.11n (HT20)	SISO	5180	1	22.370	/	Pass
		5200	1	22.552	/	Pass
		5240	1	22.015	/	Pass
		5260	1	22.469	/	Pass
		5300	1	22.651	/	Pass
		5320	1	22.028	/	Pass
		5500	1	22.020	/	Pass
		5580	1	22.397	/	Pass
		5700	1	22.381	/	Pass
802.11n (HT40)	SISO	5190	1	43.579	/	Pass
		5230	1	43.204	/	Pass
		5270	1	43.477	/	Pass
		5310	1	44.026	/	Pass
		5510	1	42.609	/	Pass
		5550	1	43.551	/	Pass
		5670	1	42.632	/	Pass
802.11ac (VHT20)	SISO	5180	1	21.950	/	Pass
		5200	1	22.012	/	Pass
		5240	1	21.985	/	Pass
		5260	1	21.986	/	Pass

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240800323403

Page: 234 of 349

		5300	1	21.893	/	Pass
		5320	1	21.790	/	Pass
		5500	1	21.881	/	Pass
		5580	1	22.111	/	Pass
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802.11ac (VHT40)	SISO	5190	1	42.649	/	Pass
		5230	1	42.795	/	Pass
		5270	1	42.832	/	Pass
		5310	1	42.608	/	Pass
		5510	1	42.503	/	Pass
		5550	1	42.862	/	Pass
		5670	1	42.952	/	Pass
802.11ac (VHT80)	SISO	5210	1	83.607	/	Pass
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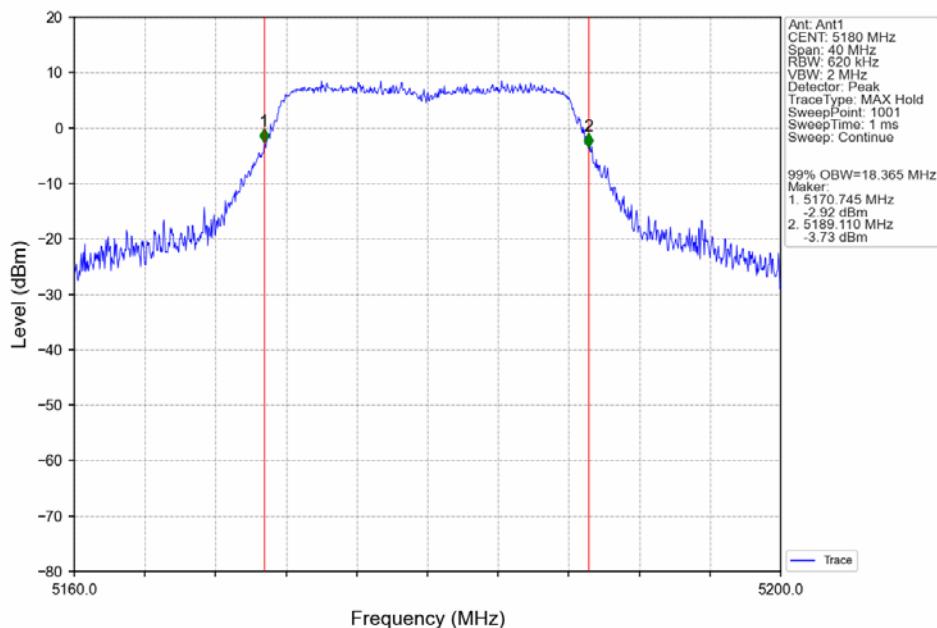
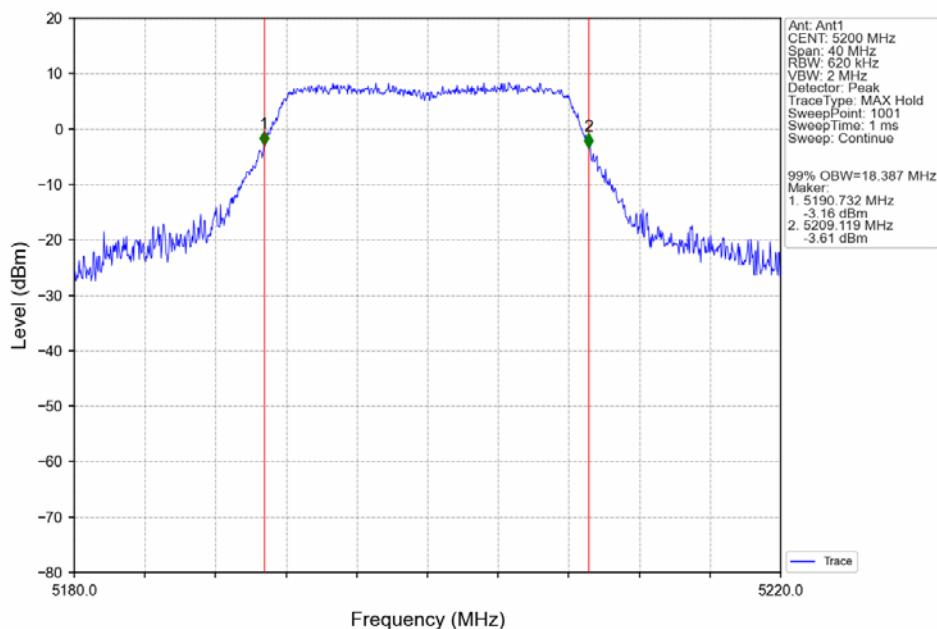
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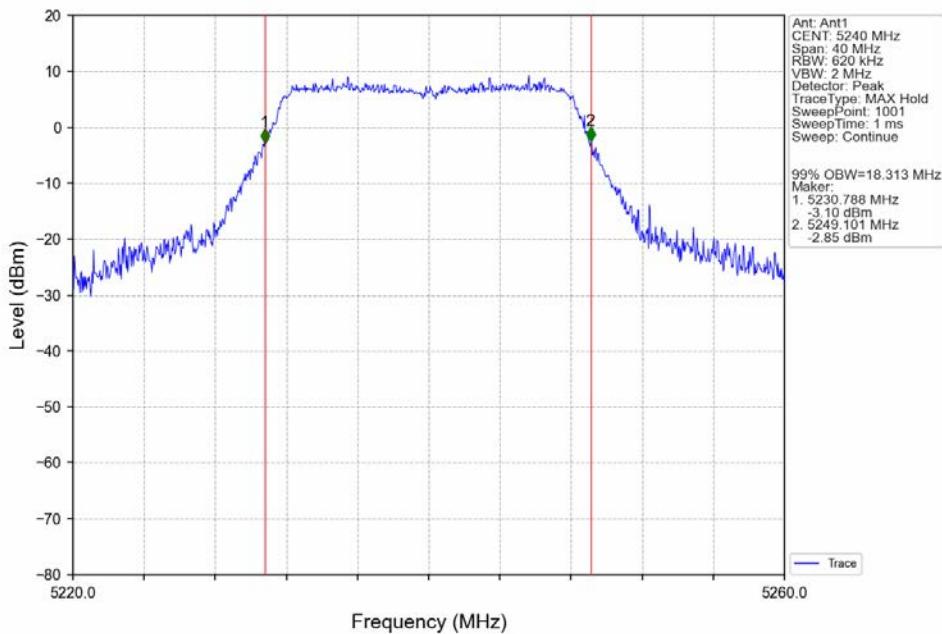
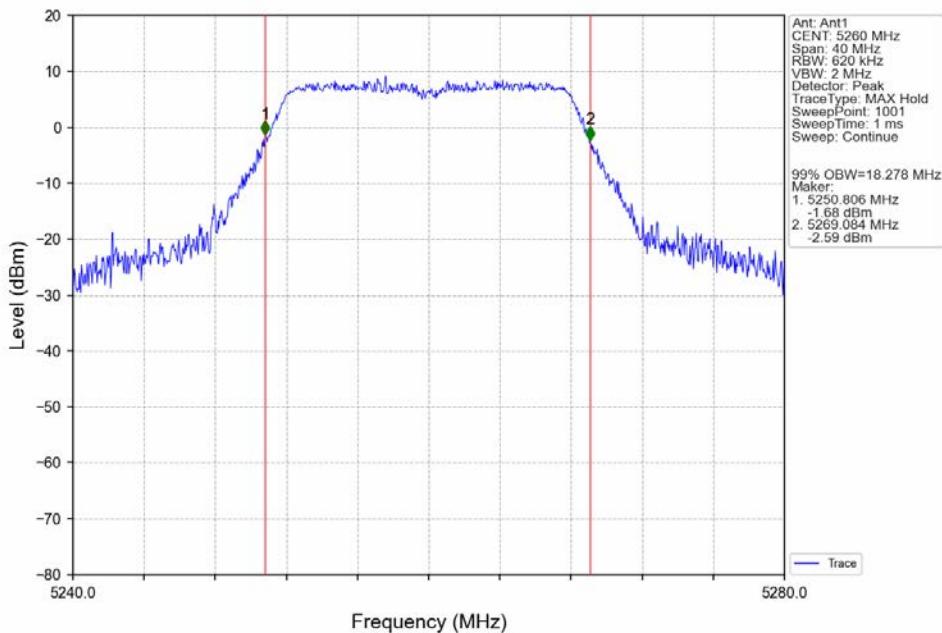


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**2.2 Test Graph****2.2.1 OBW****802.11a\_LCH\_5180MHz\_Ant1\_NTNV****802.11a\_MCH\_5200MHz\_Ant1\_NTNV**

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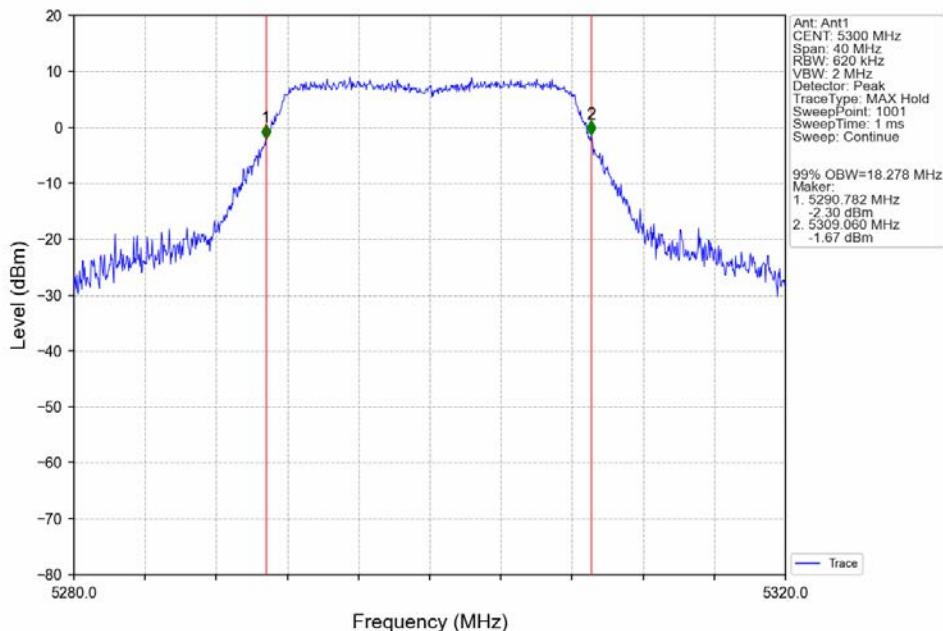
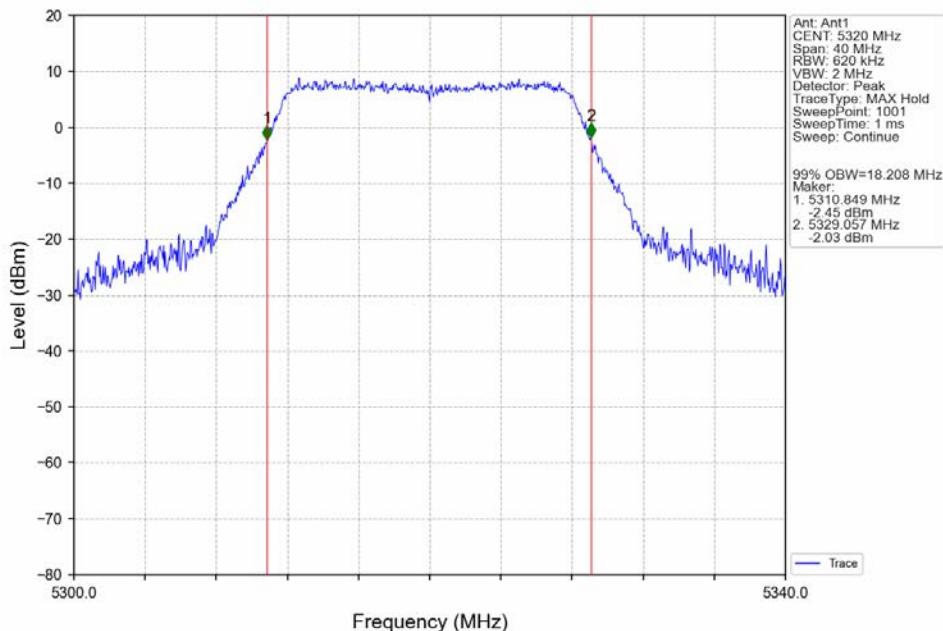
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**802.11a\_HCH\_5240MHz\_Ant1\_NTNV****802.11a\_LCH\_5260MHz\_Ant1\_NTNV**

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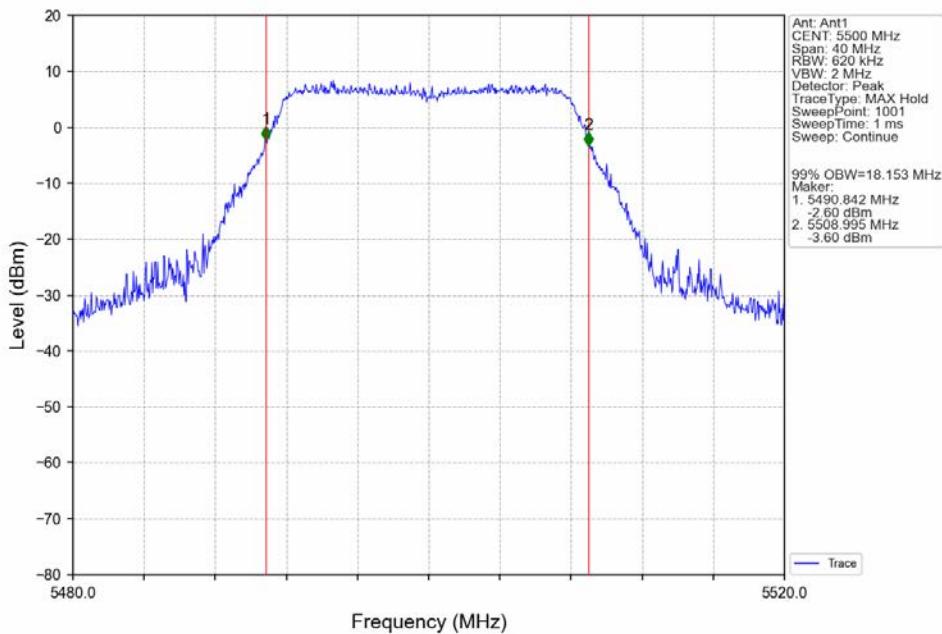
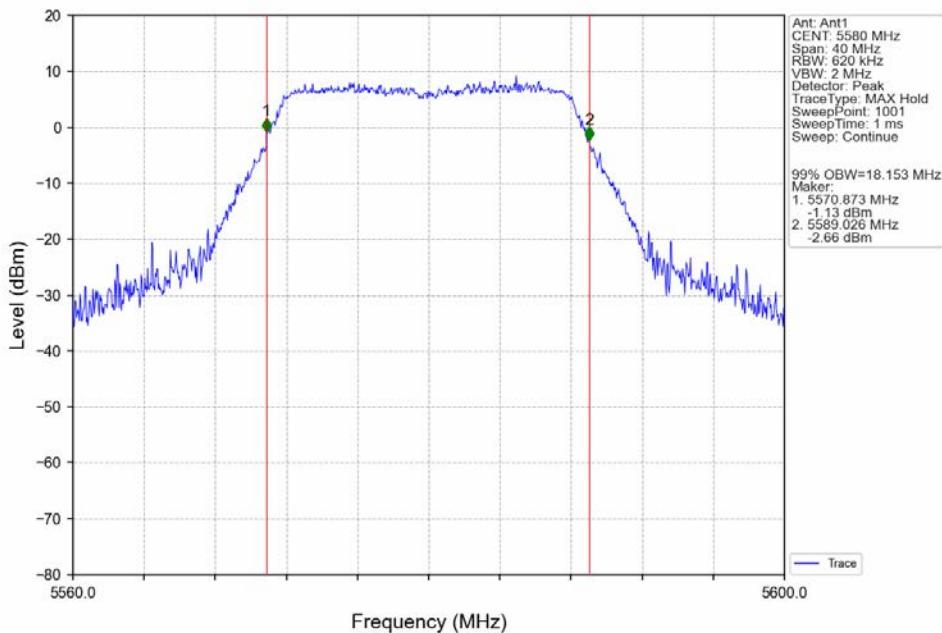
**802.11a\_MCH\_5300MHz\_Ant1\_NTNV****802.11a\_HCH\_5320MHz\_Ant1\_NTNV**

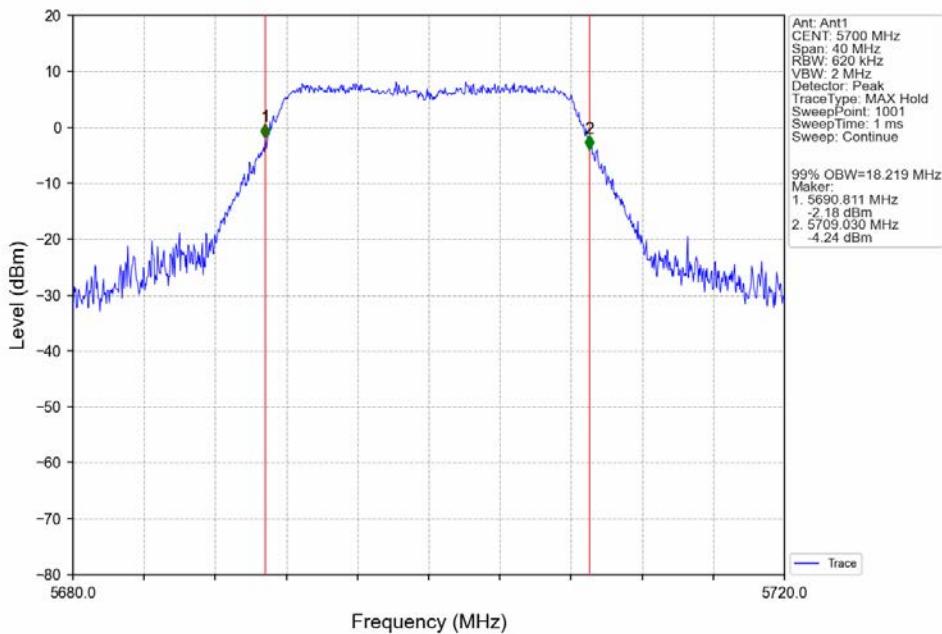
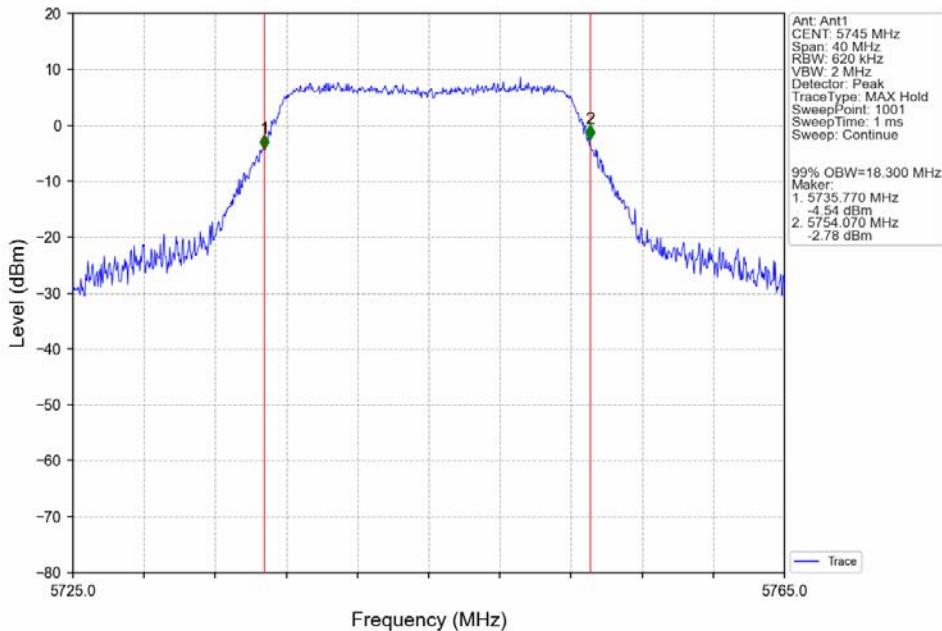
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**802.11a\_LCH\_5500MHz\_Ant1\_NTNV****802.11a\_MCH\_5580MHz\_Ant1\_NTNV**

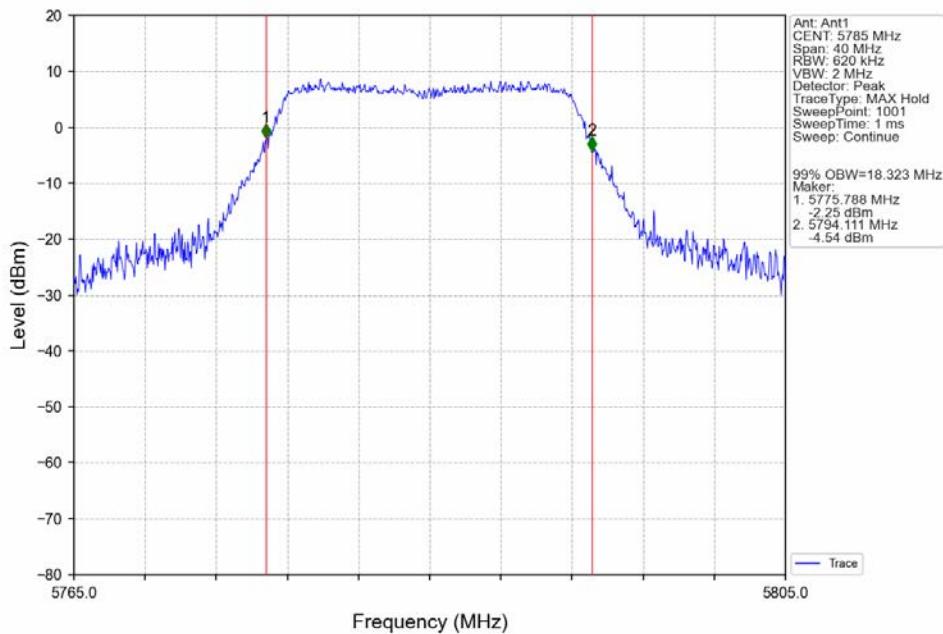
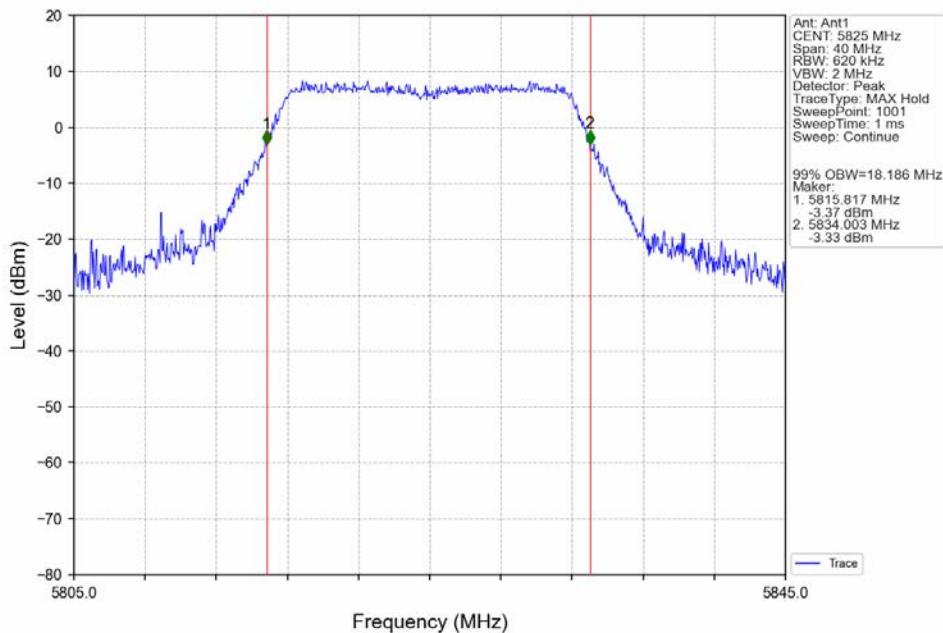
**802.11a\_HCH\_5700MHz\_Ant1\_NTNV****802.11a\_LCH\_5745MHz\_Ant1\_NTNV**

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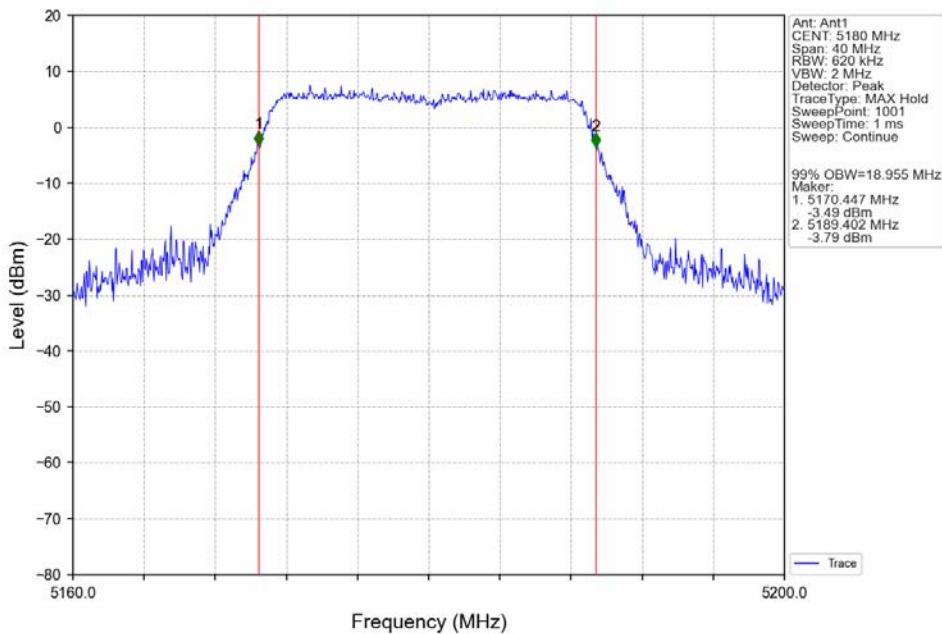
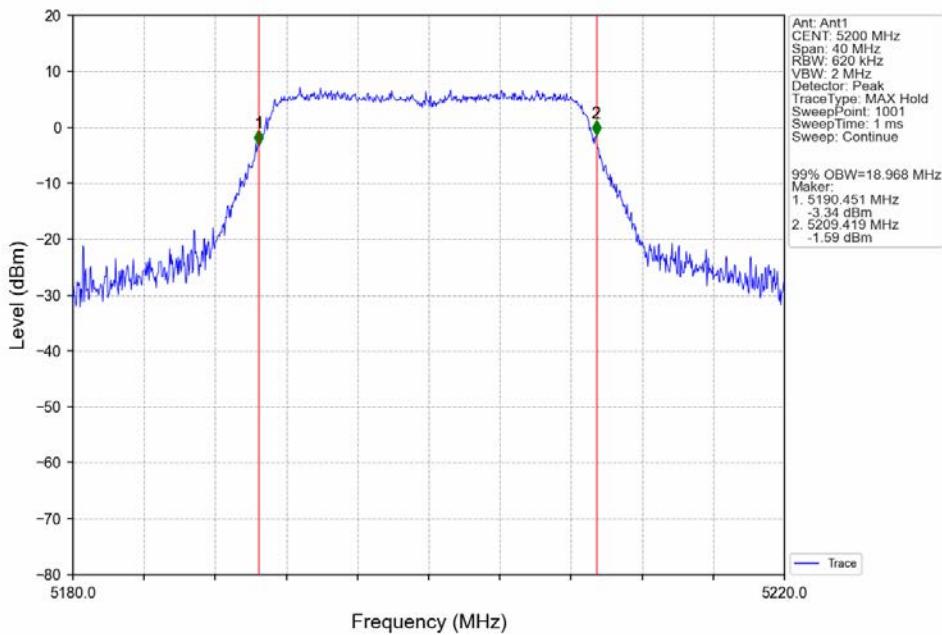
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**802.11a\_MCH\_5785MHz\_Ant1\_NTNV****802.11a\_HCH\_5825MHz\_Ant1\_NTNV**

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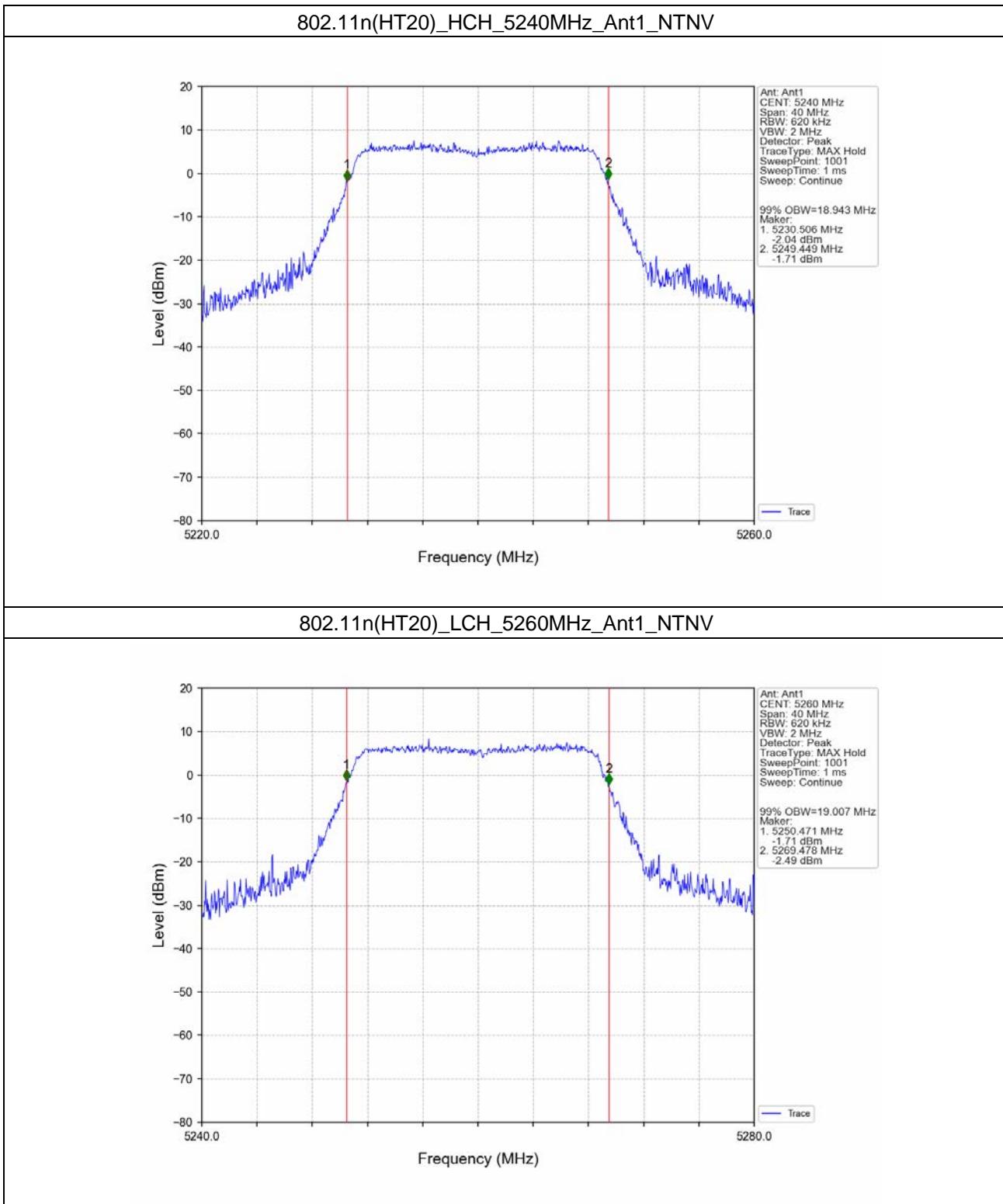
**802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV****802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV**

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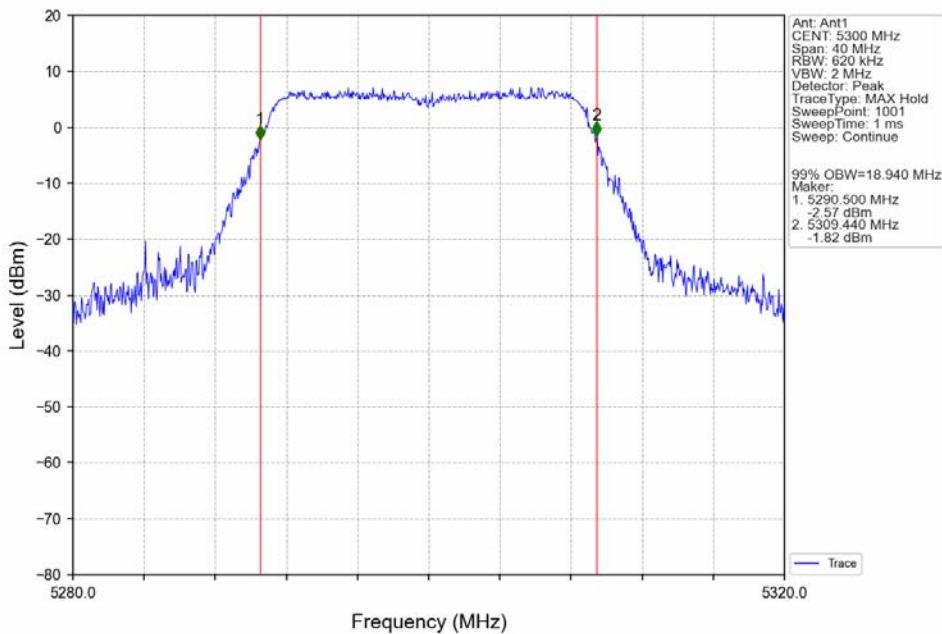
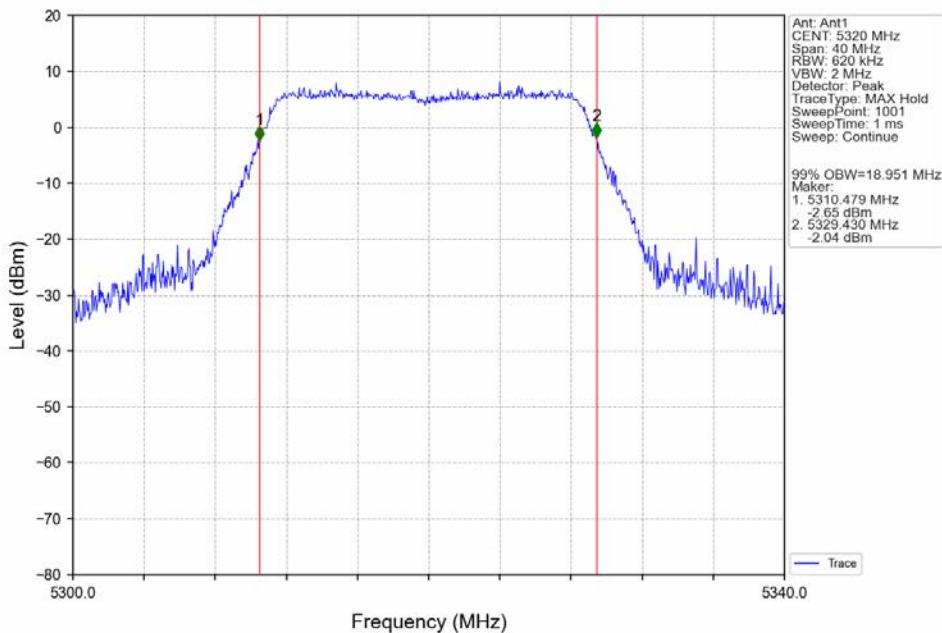


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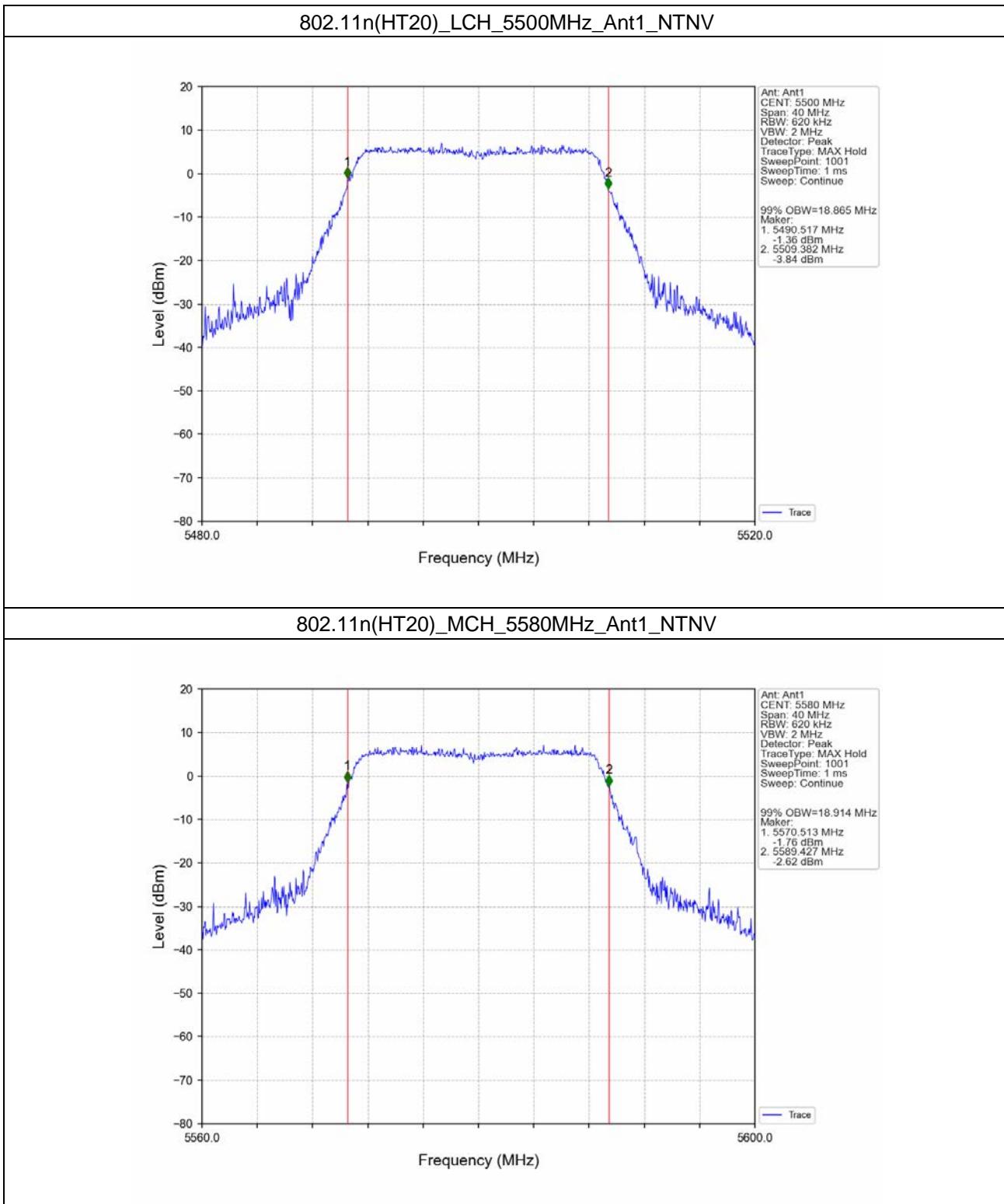
**802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV****802.11n(HT20)\_HCH\_5320MHz\_Ant1\_NTNV**

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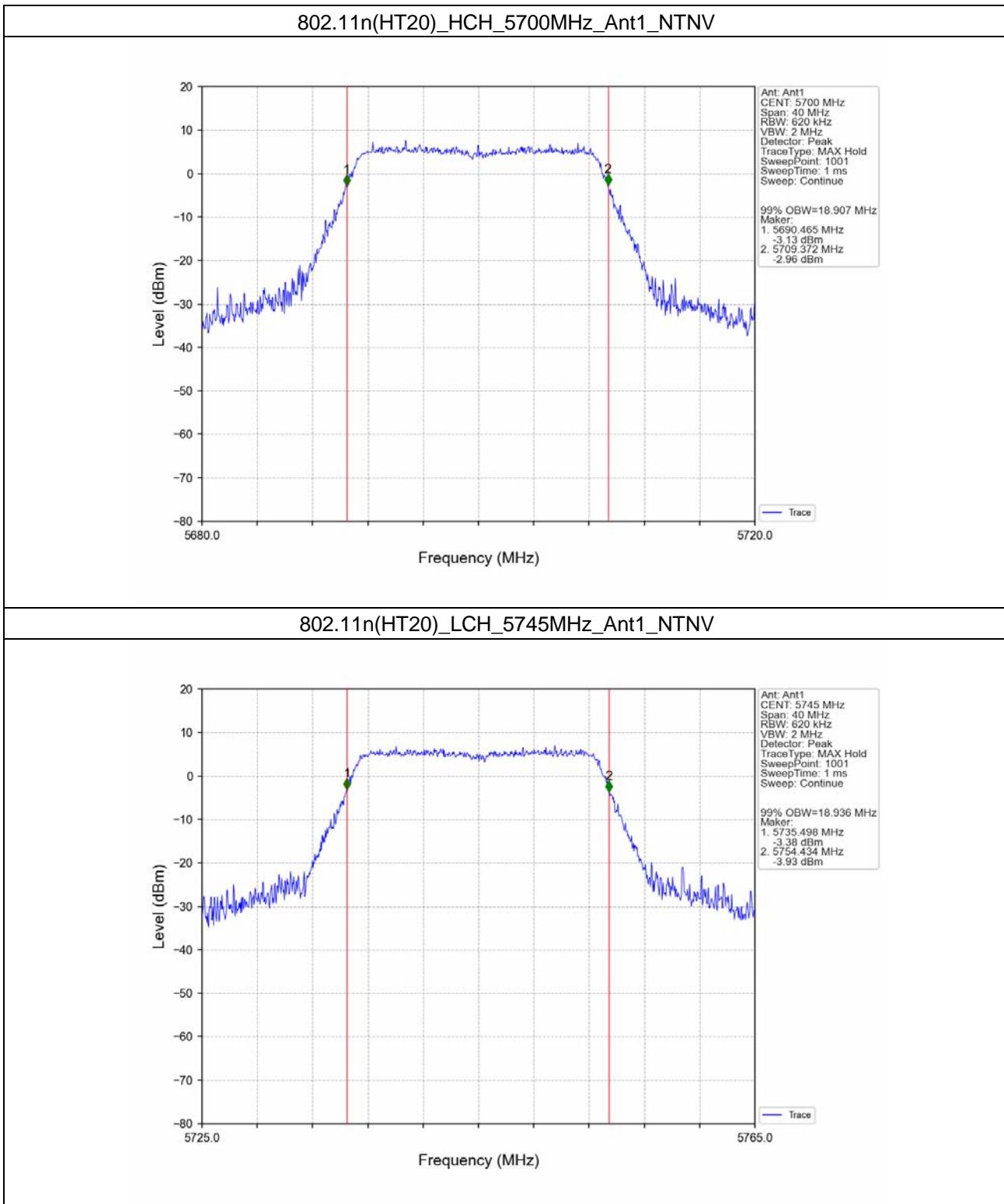


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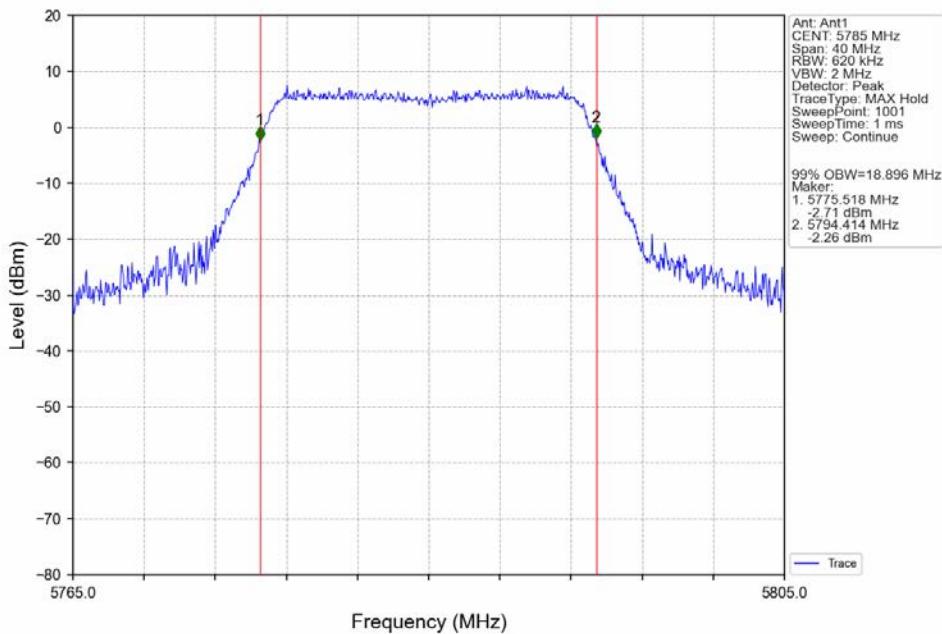
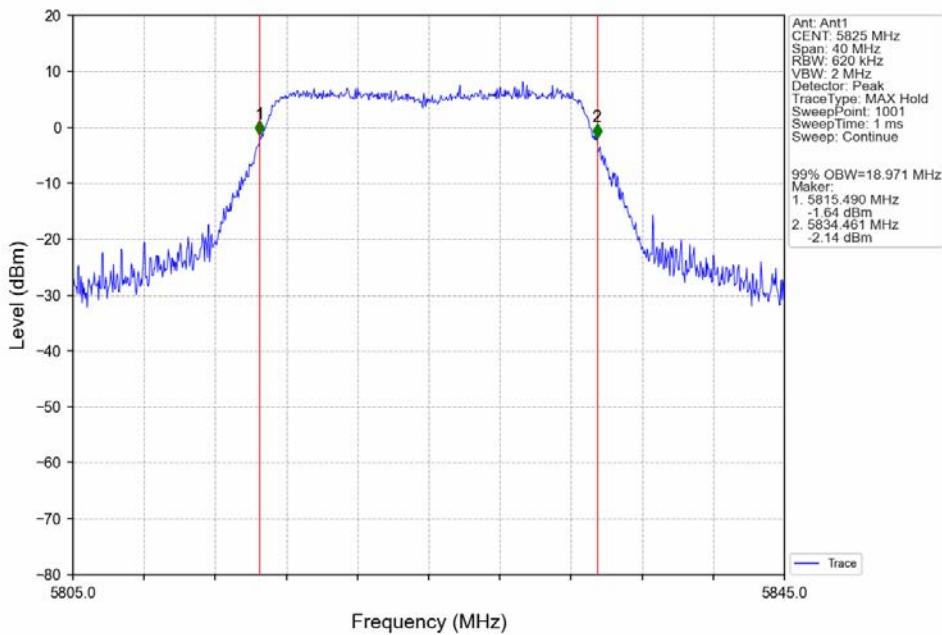


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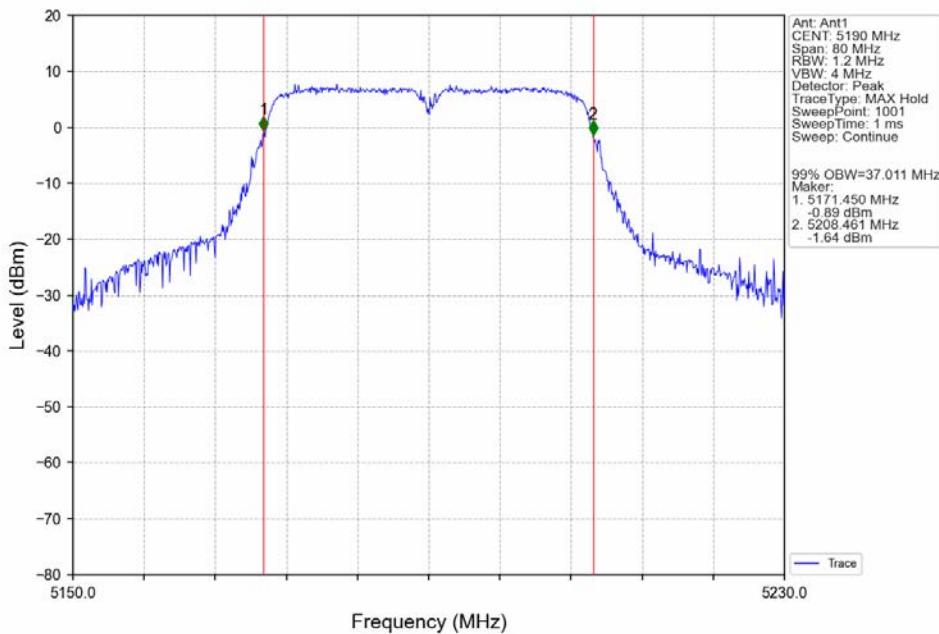
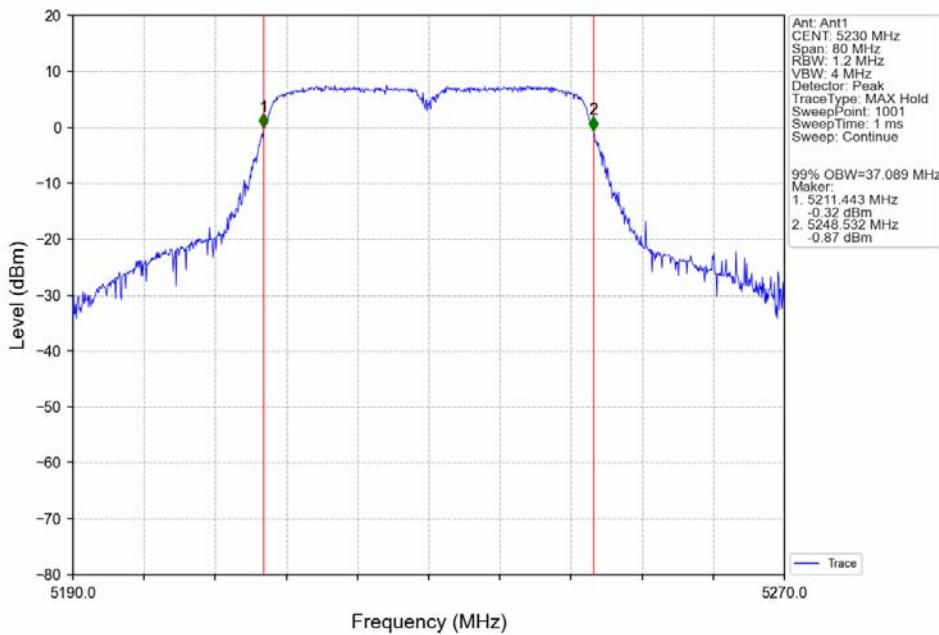
**802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV****802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV**

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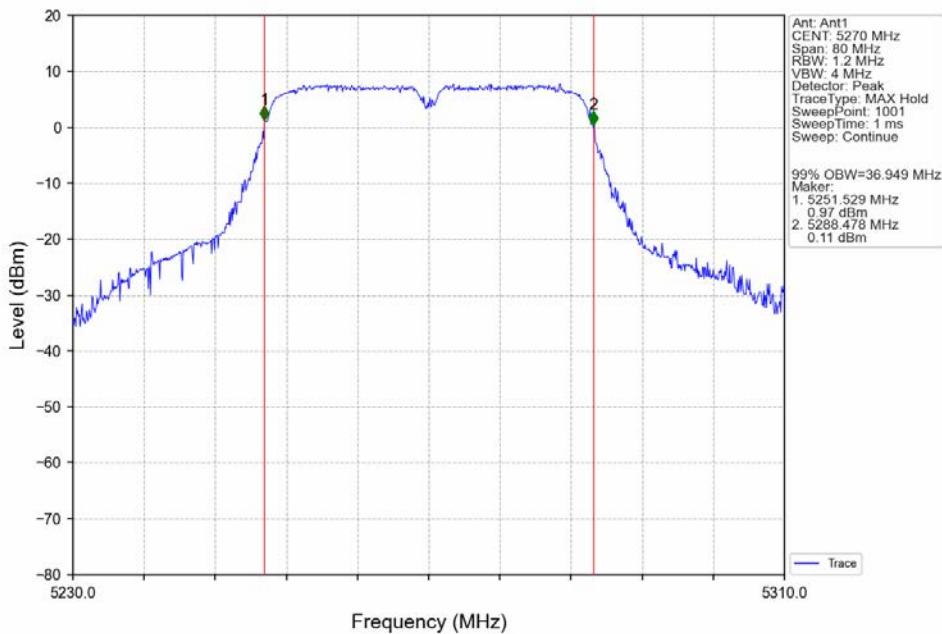
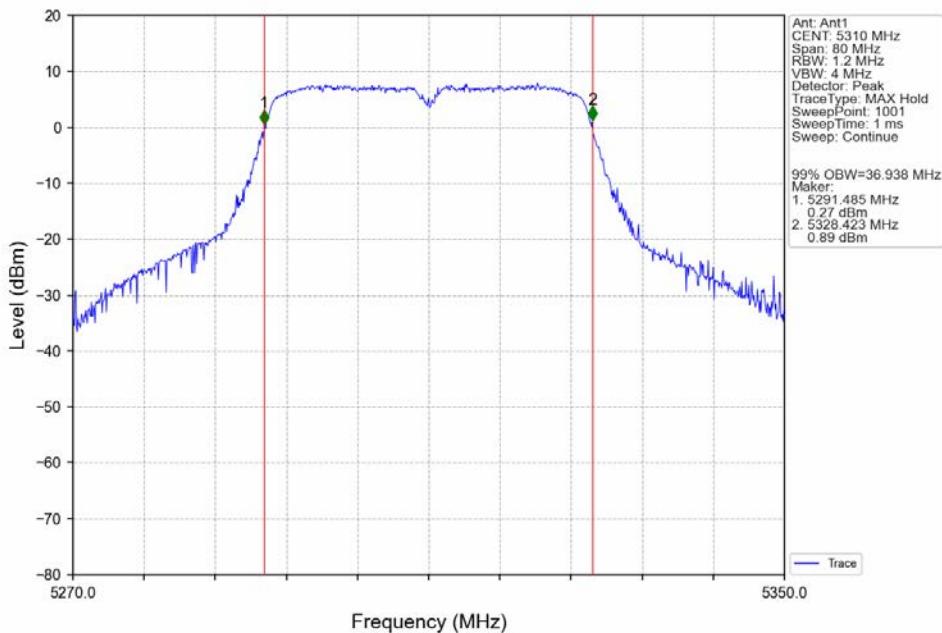
**802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV****802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV**

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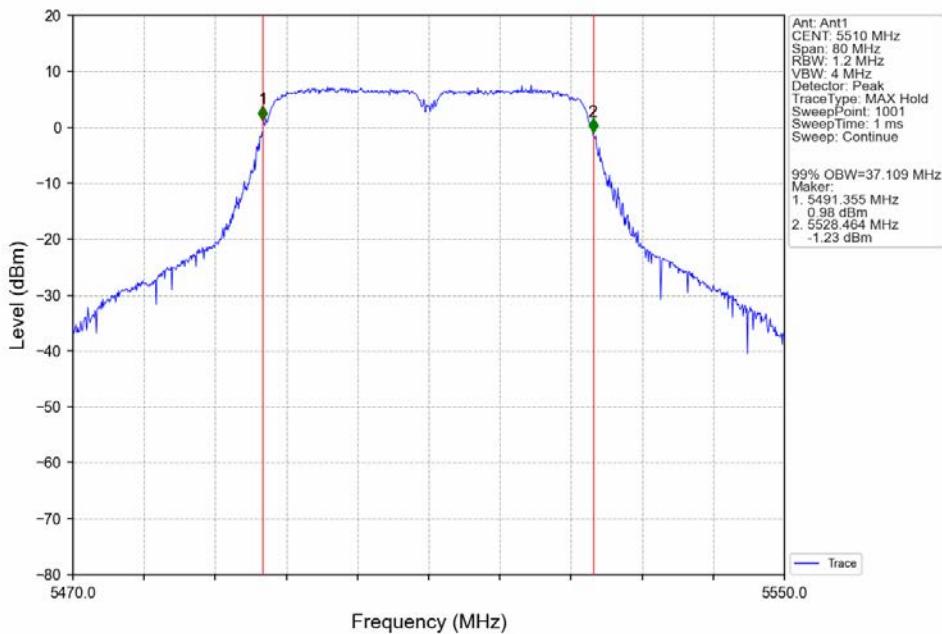
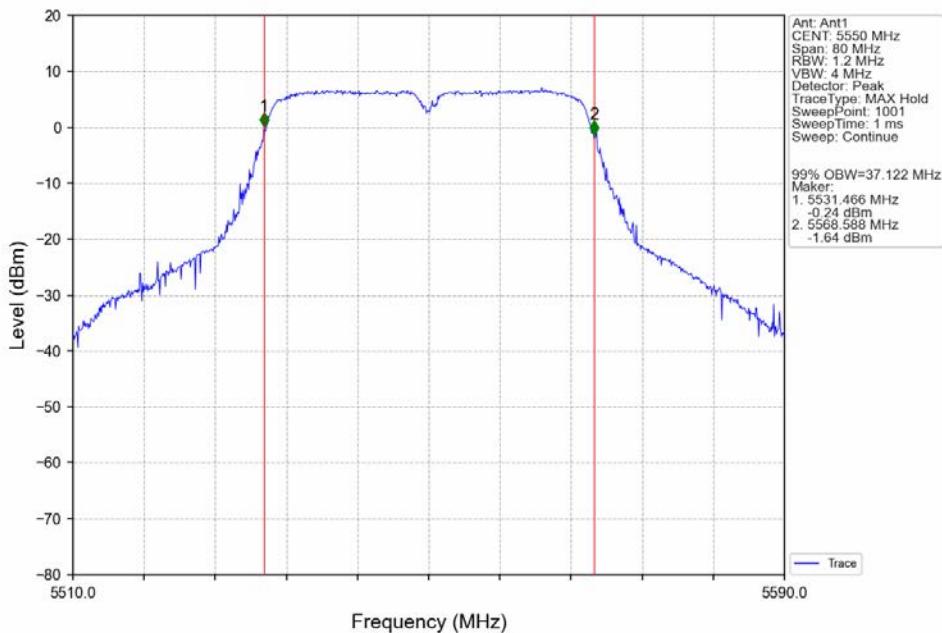
**802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV****802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV**

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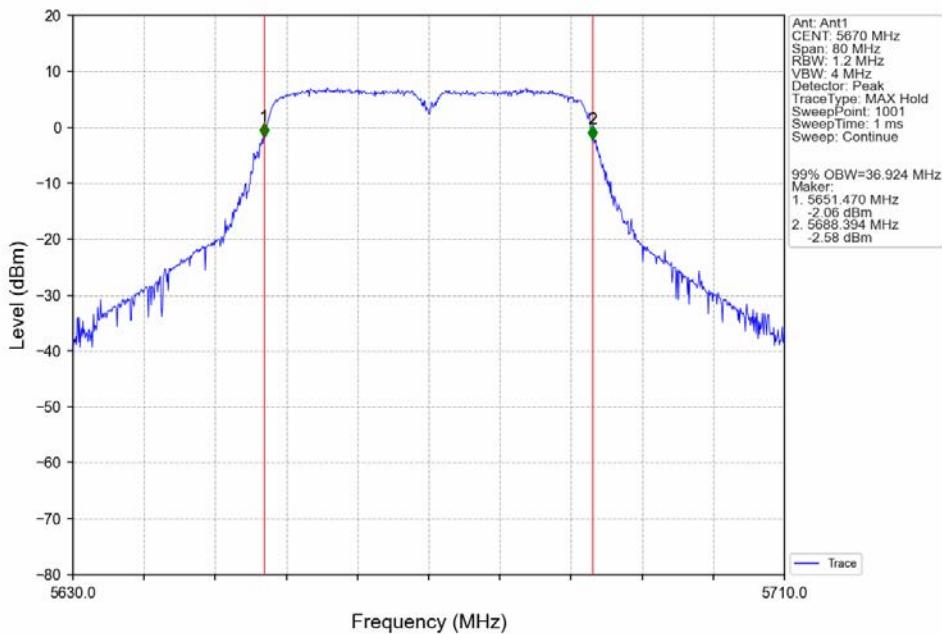
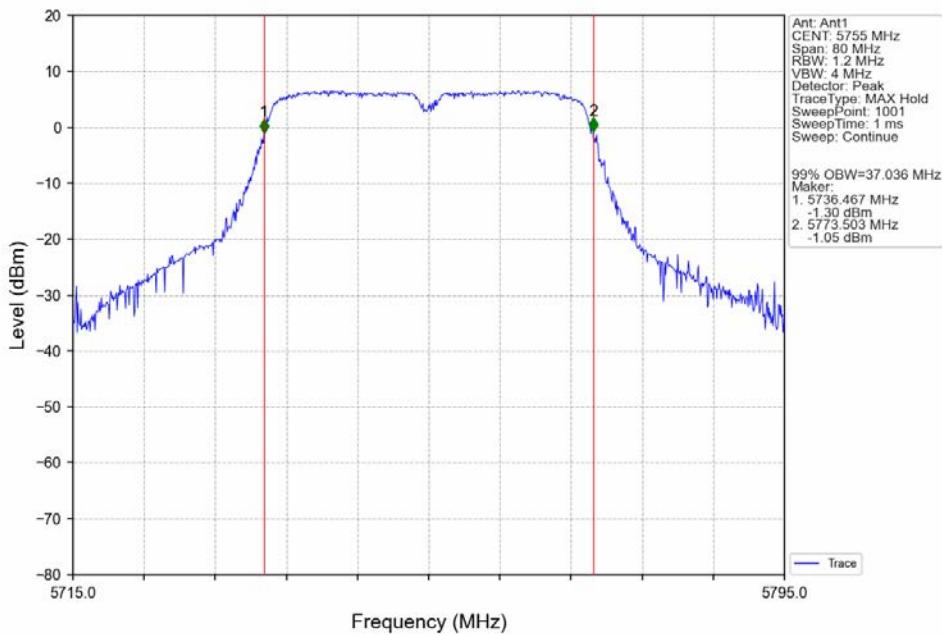
**802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV****802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV**

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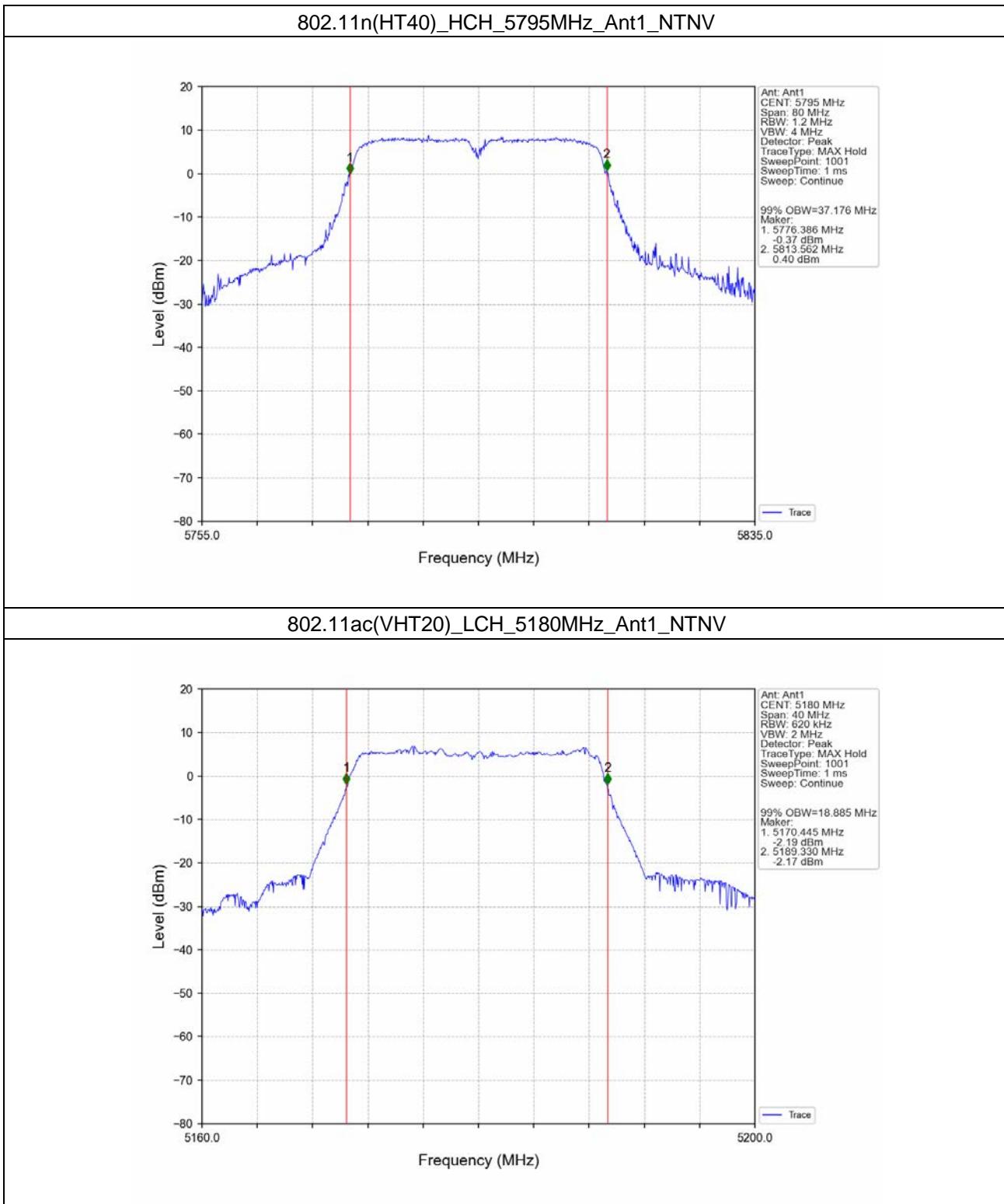
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**802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV****802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV**

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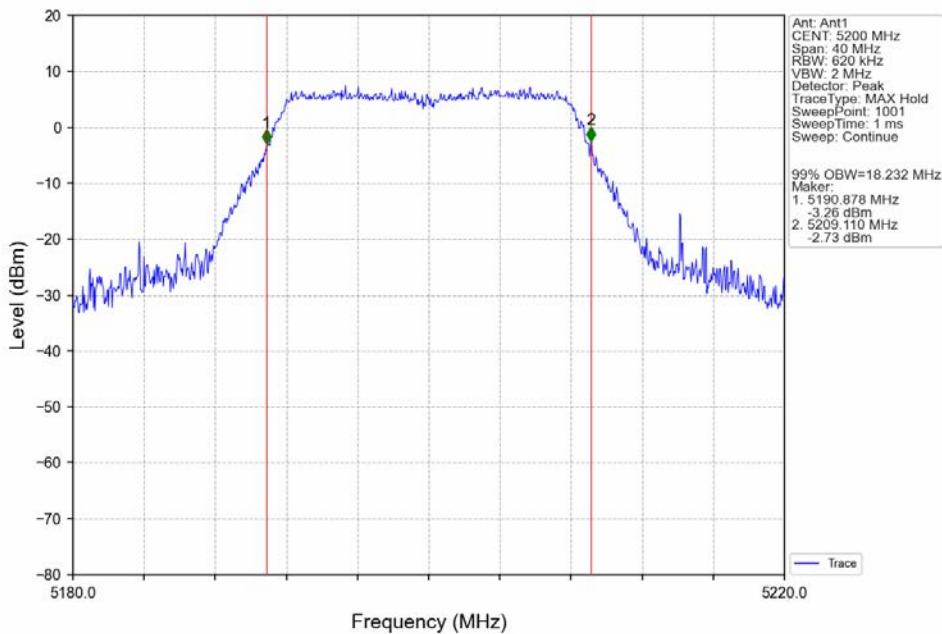
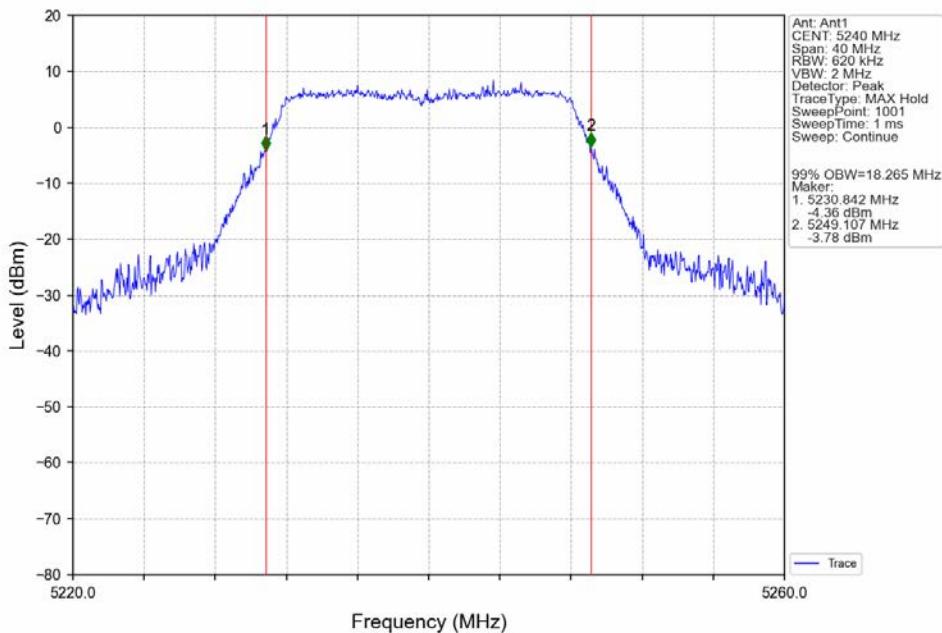




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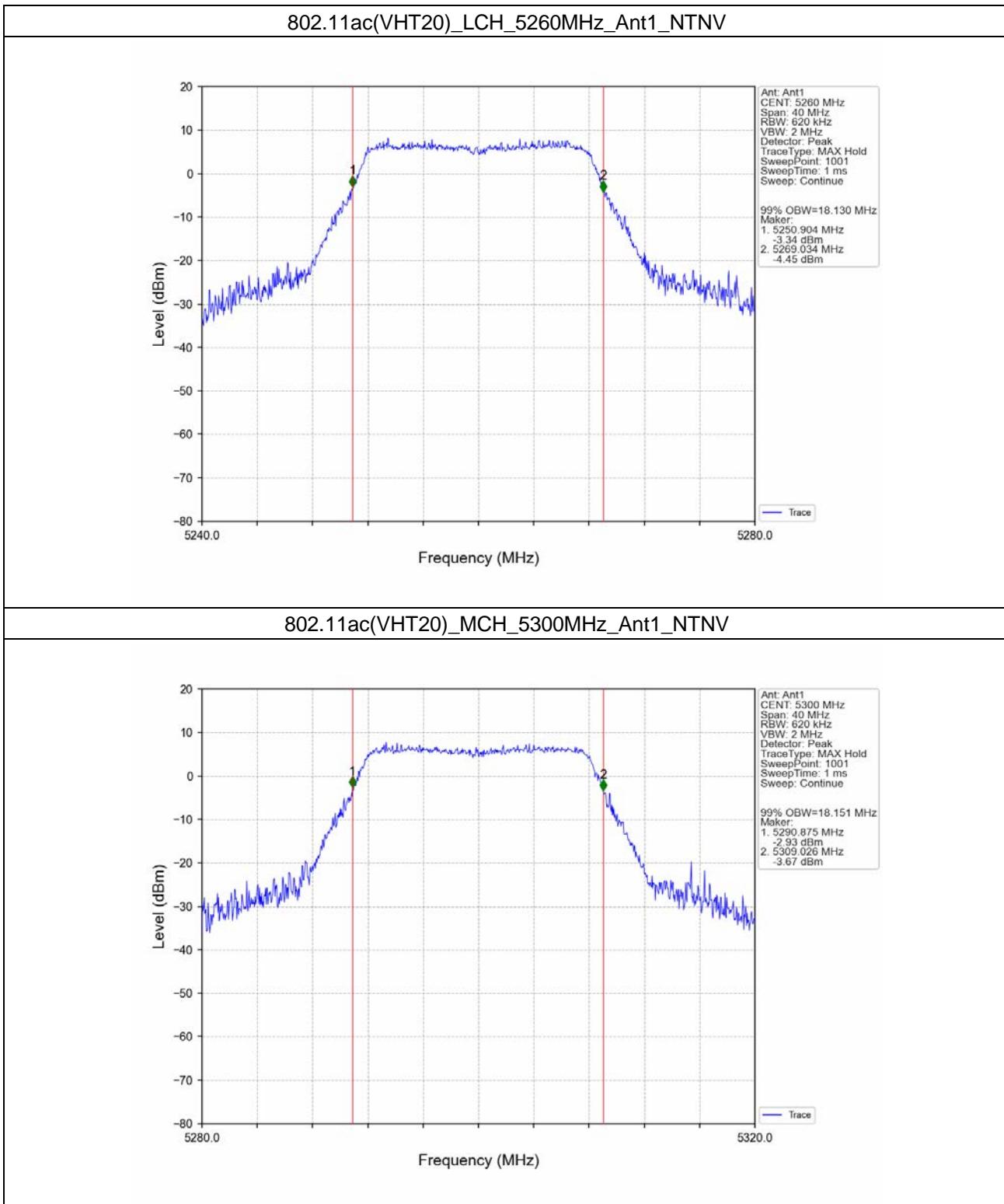
**802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV****802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV**

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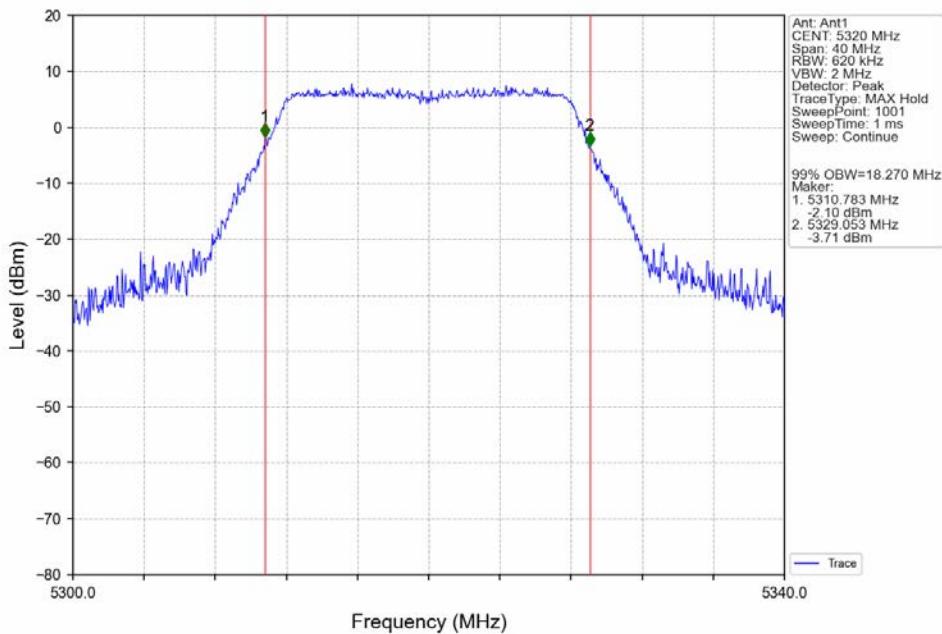
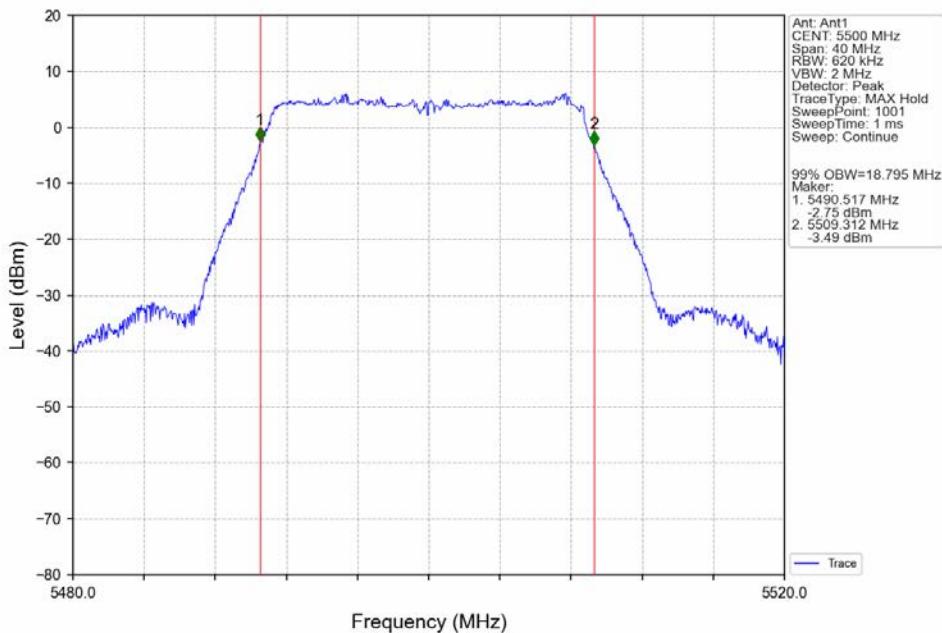


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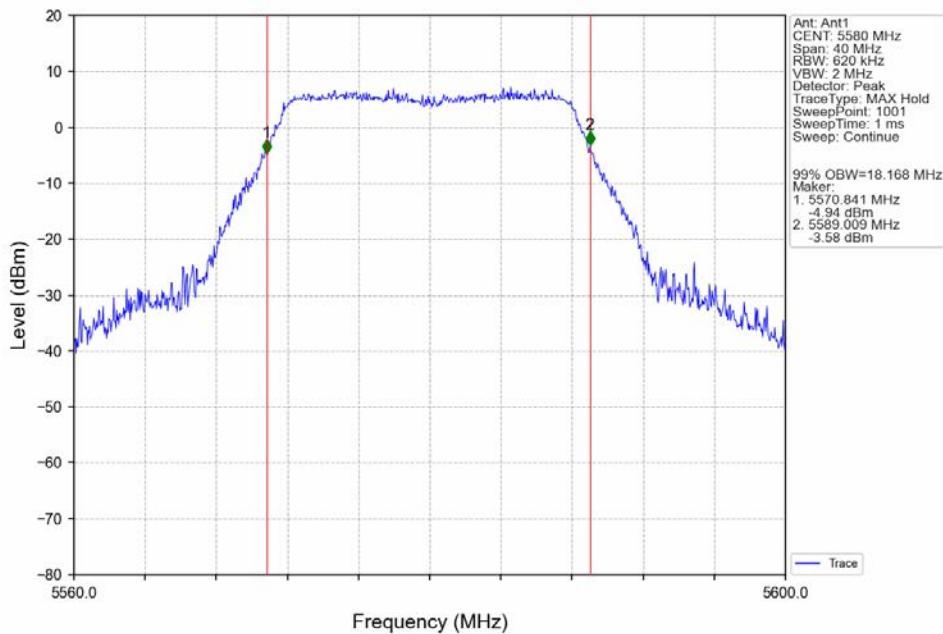
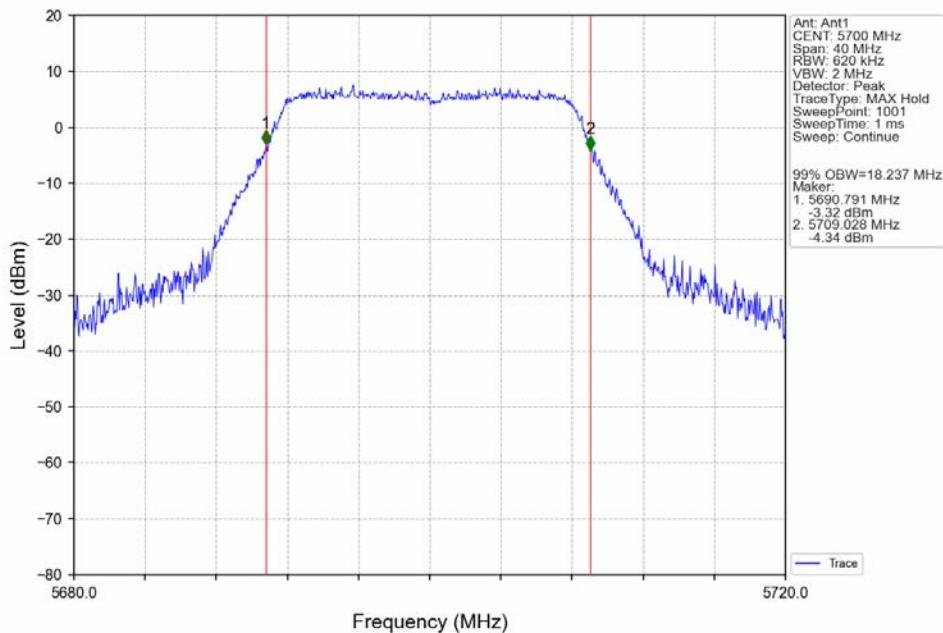
**802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV****802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV**

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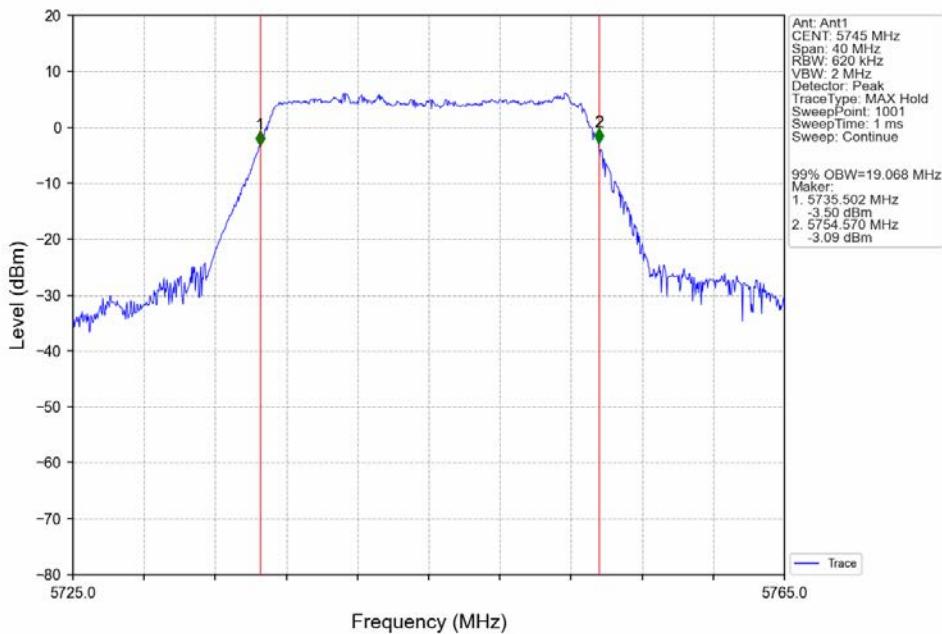
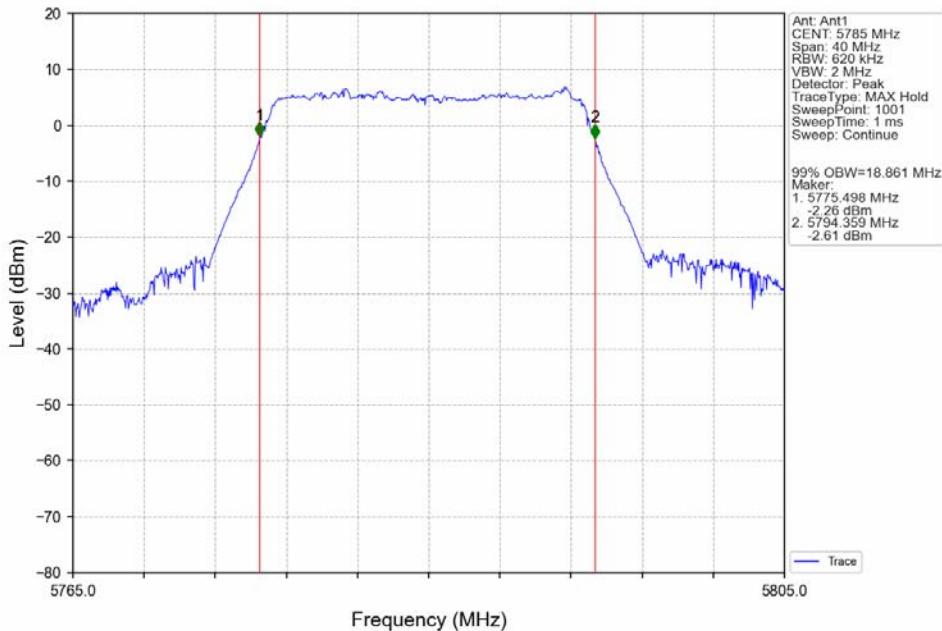
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**802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV****802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV**

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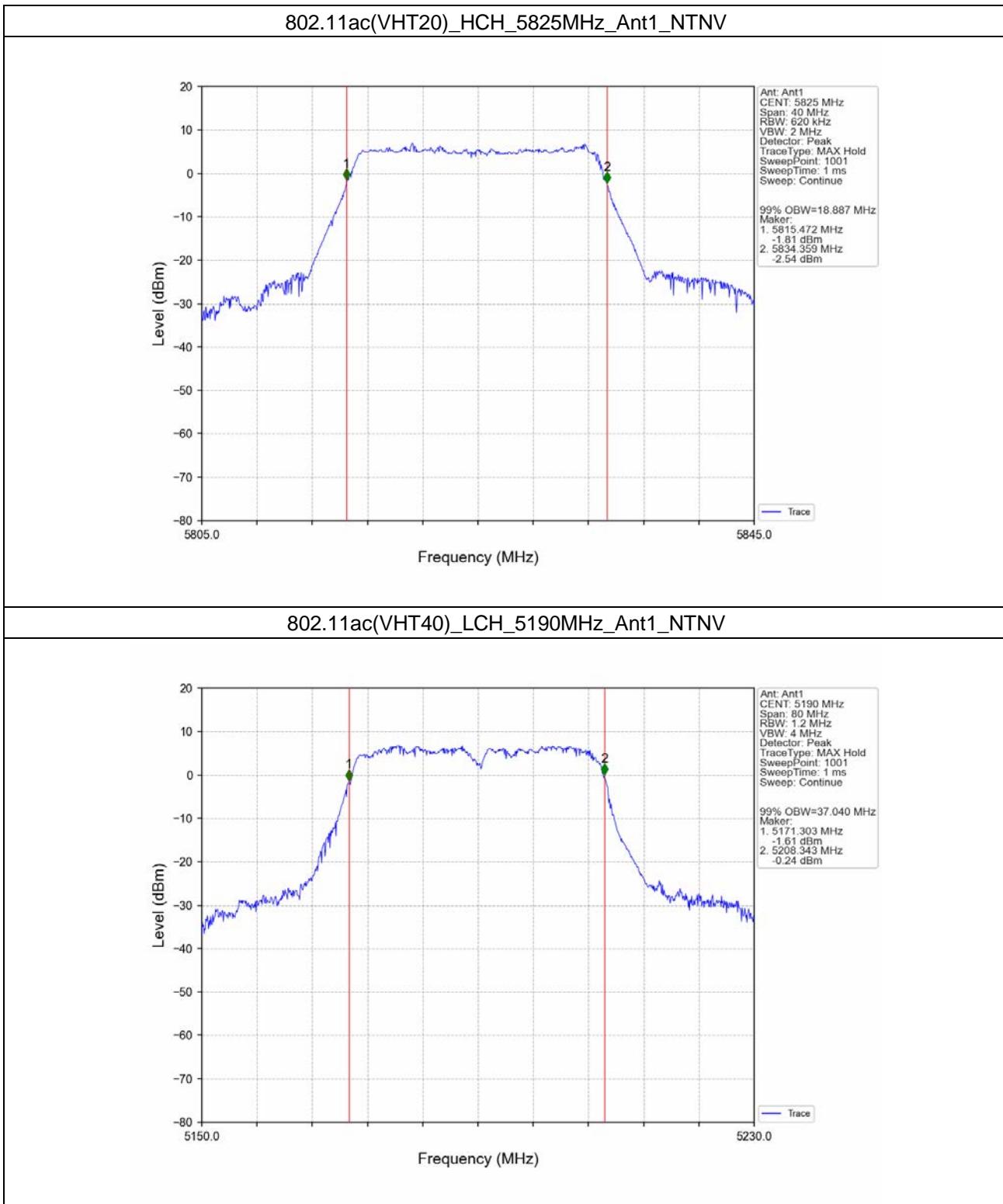
**802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV****802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV**

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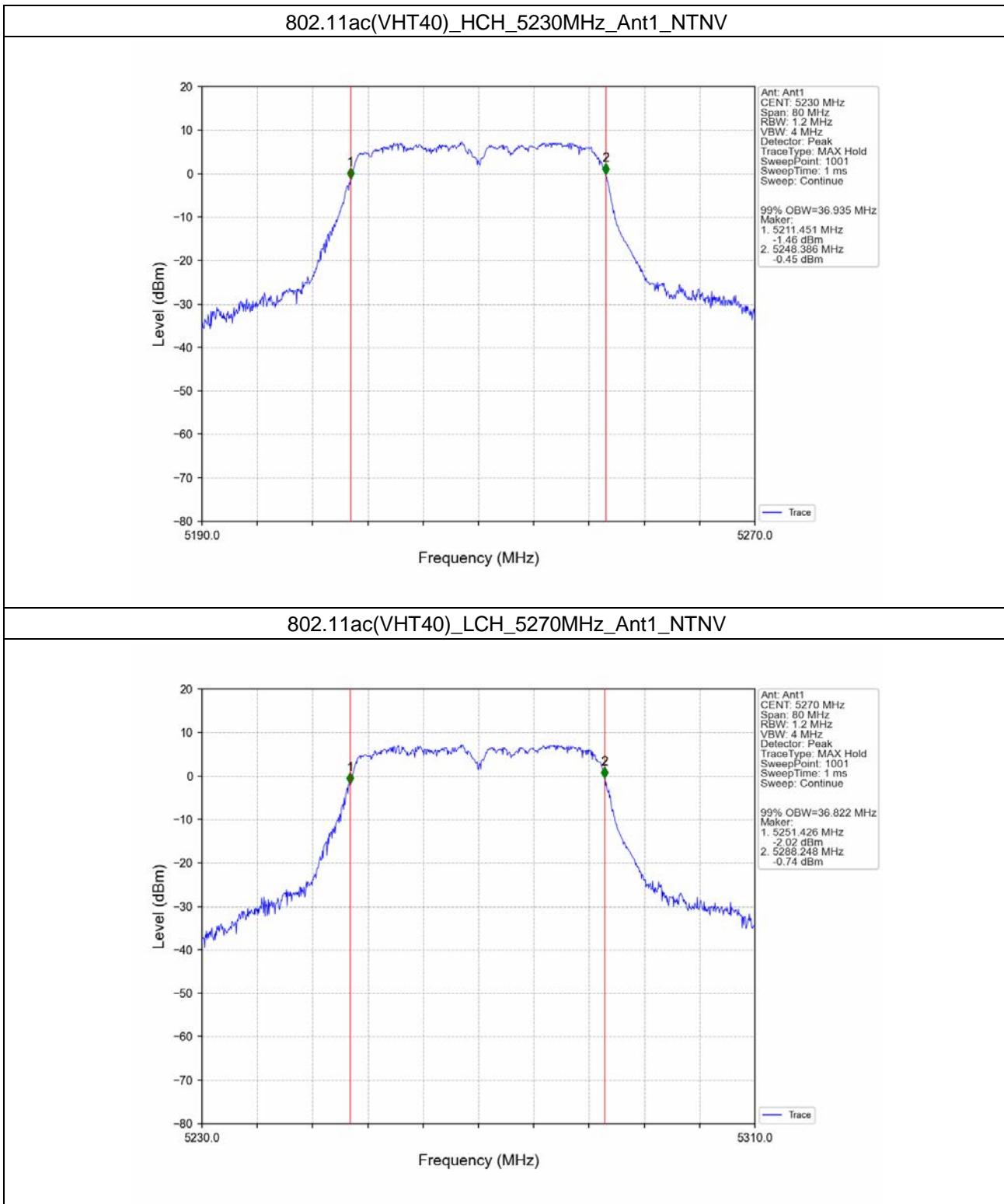
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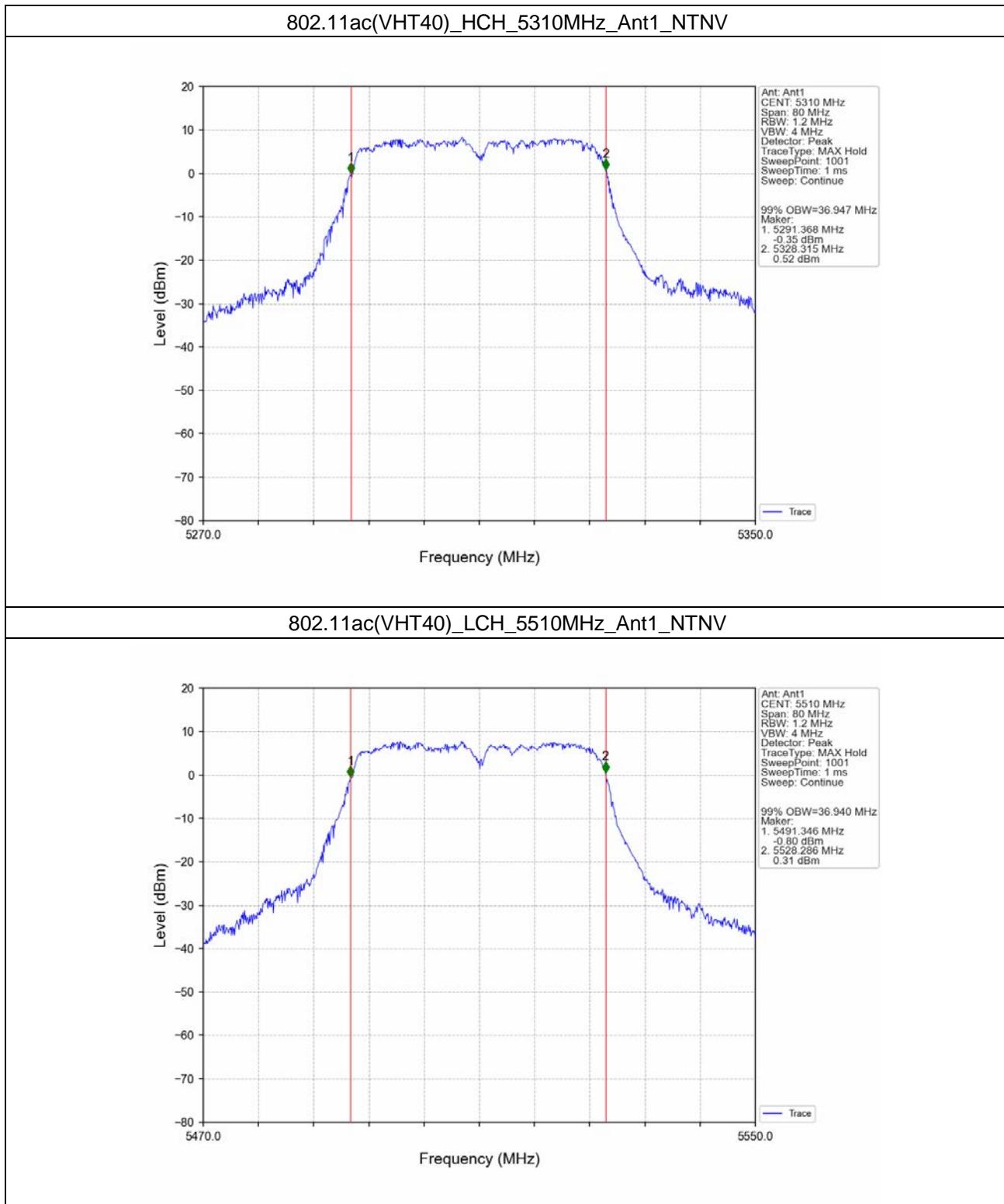




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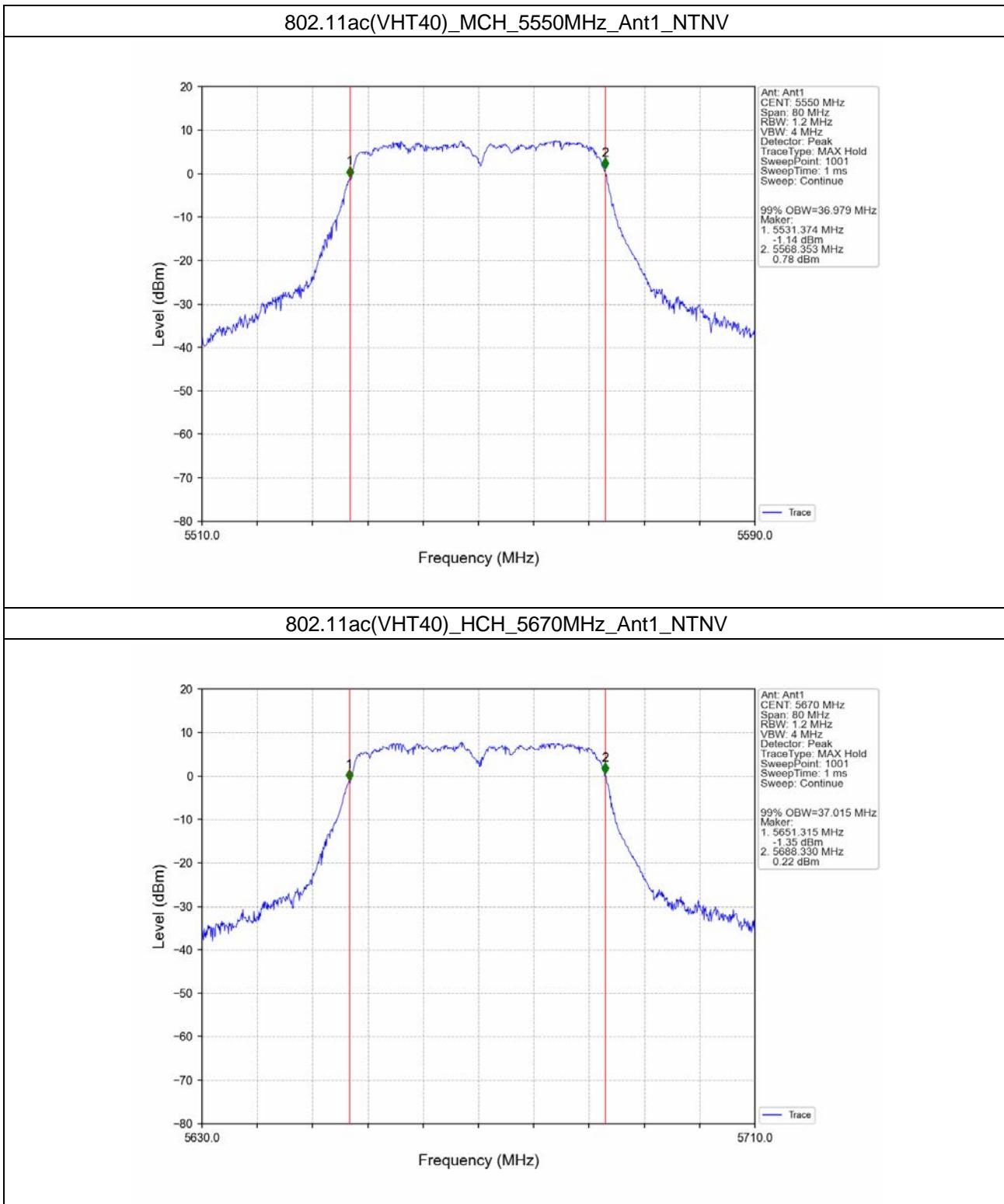
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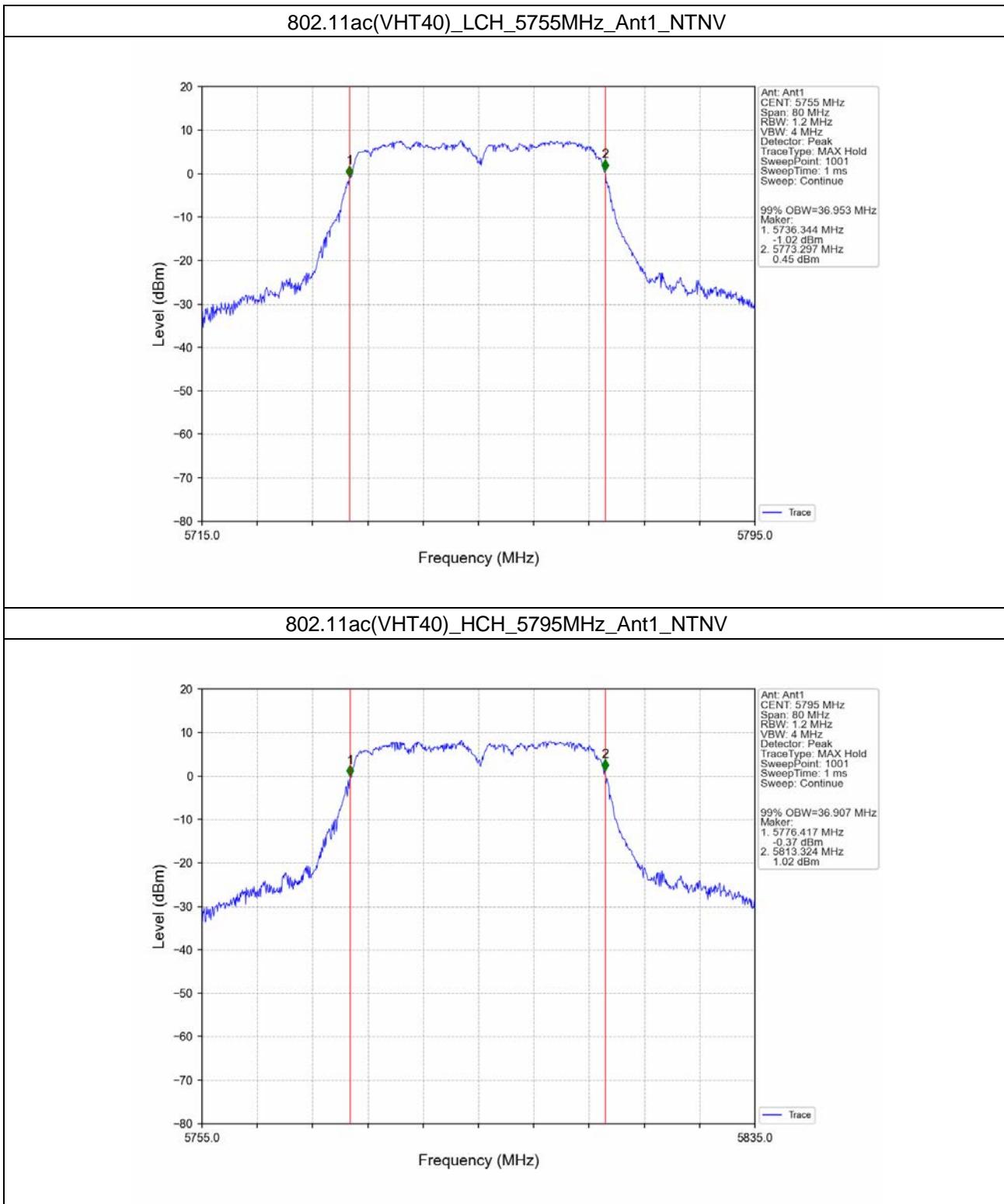
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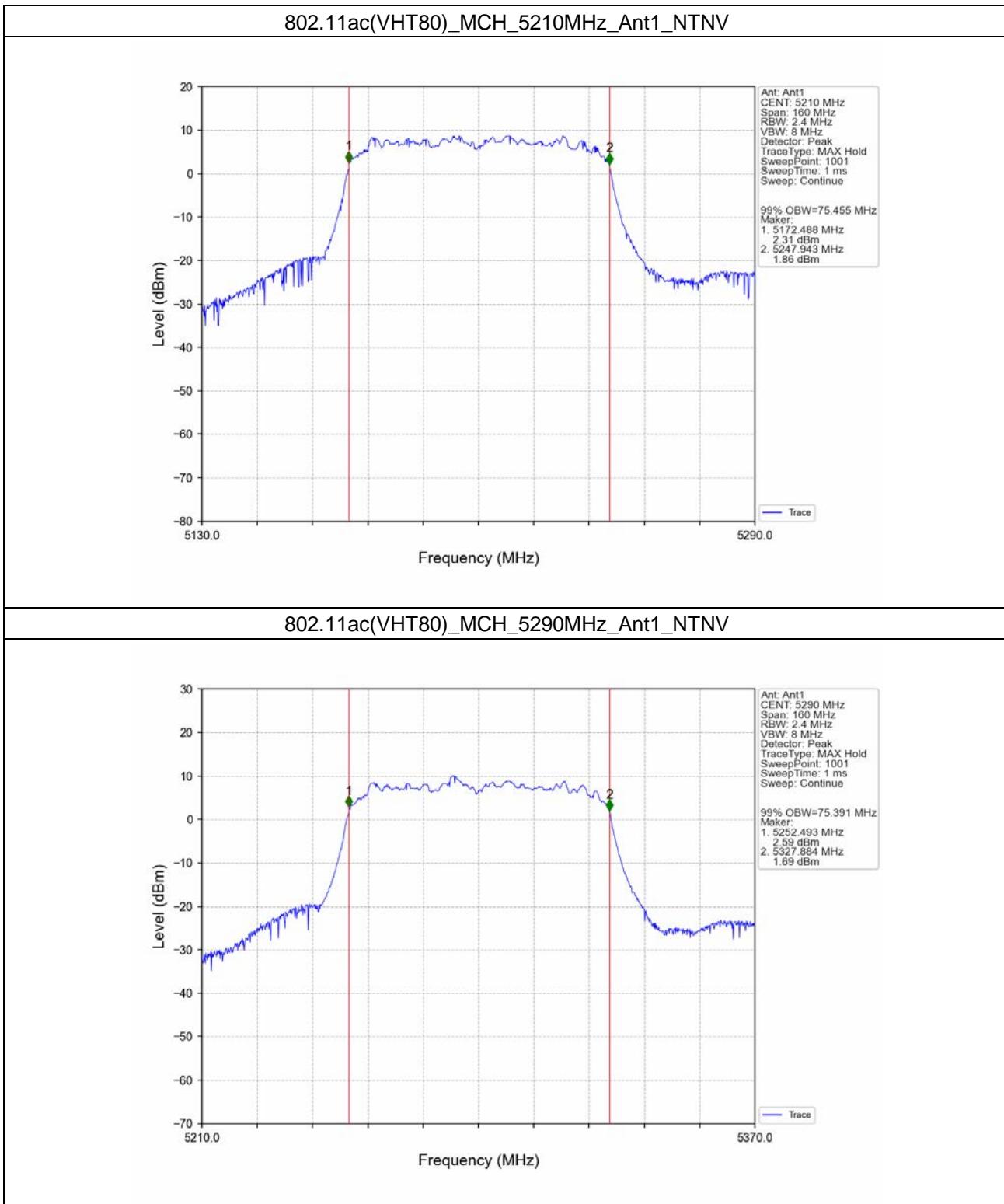




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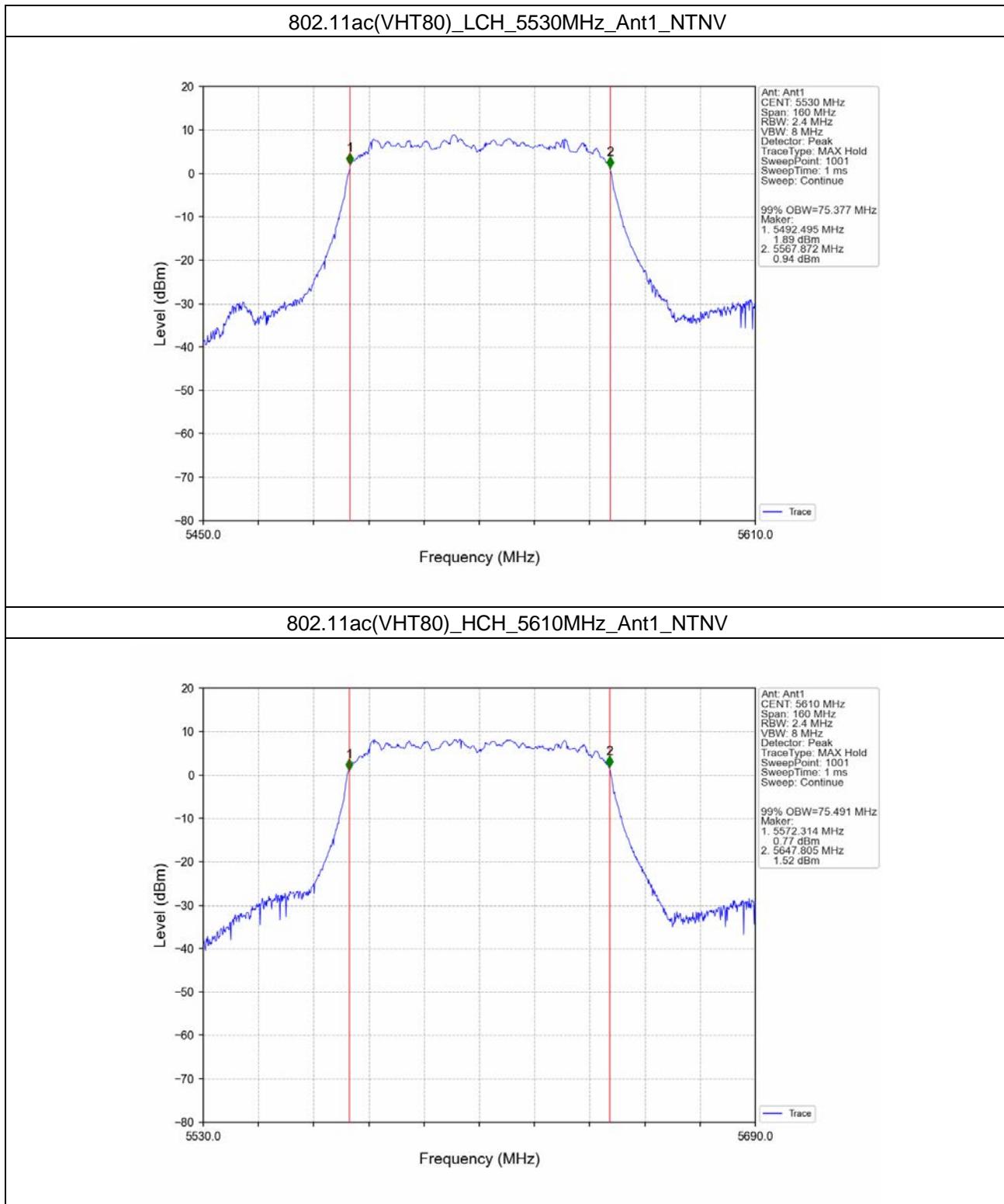


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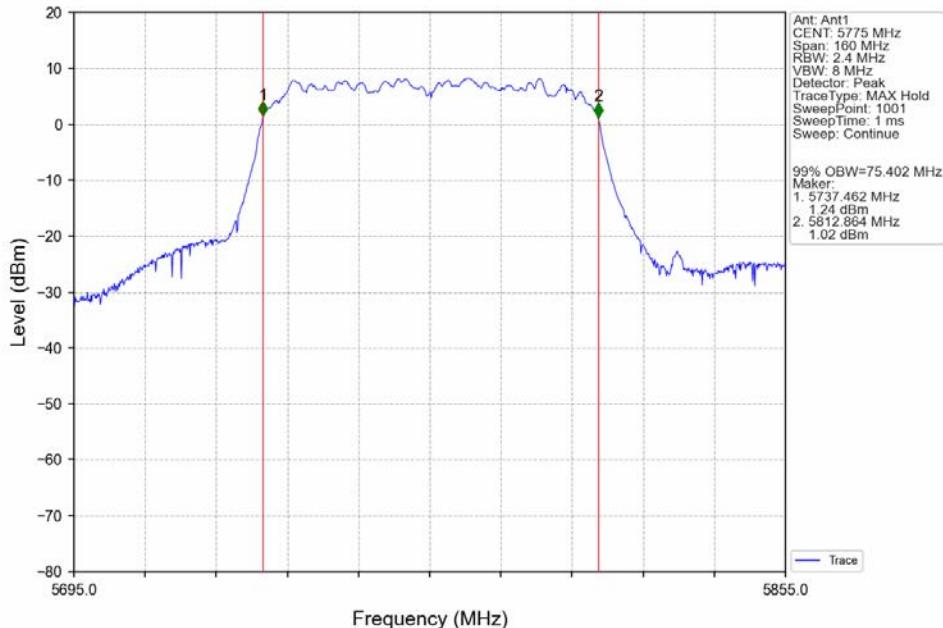
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## 802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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