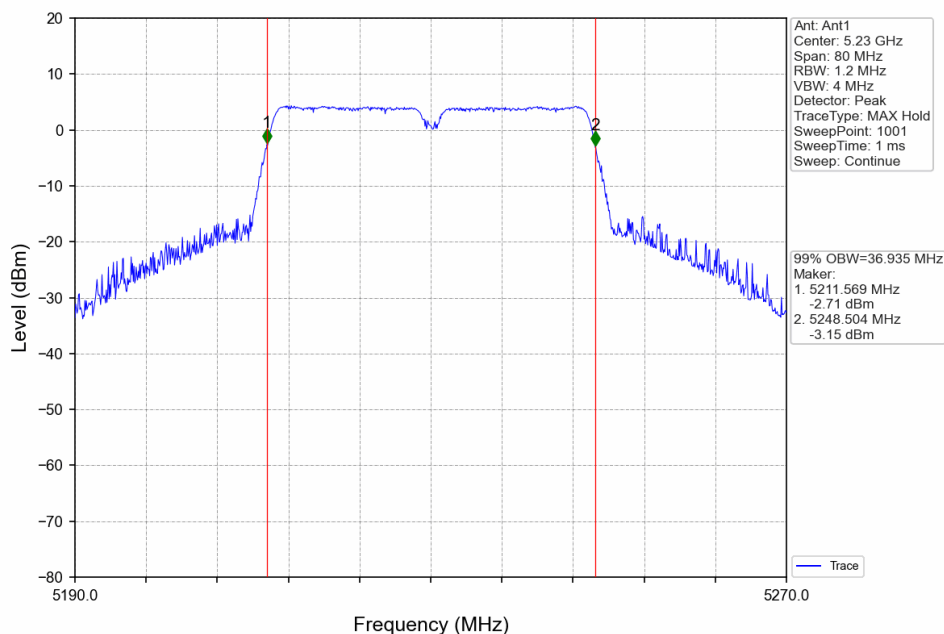
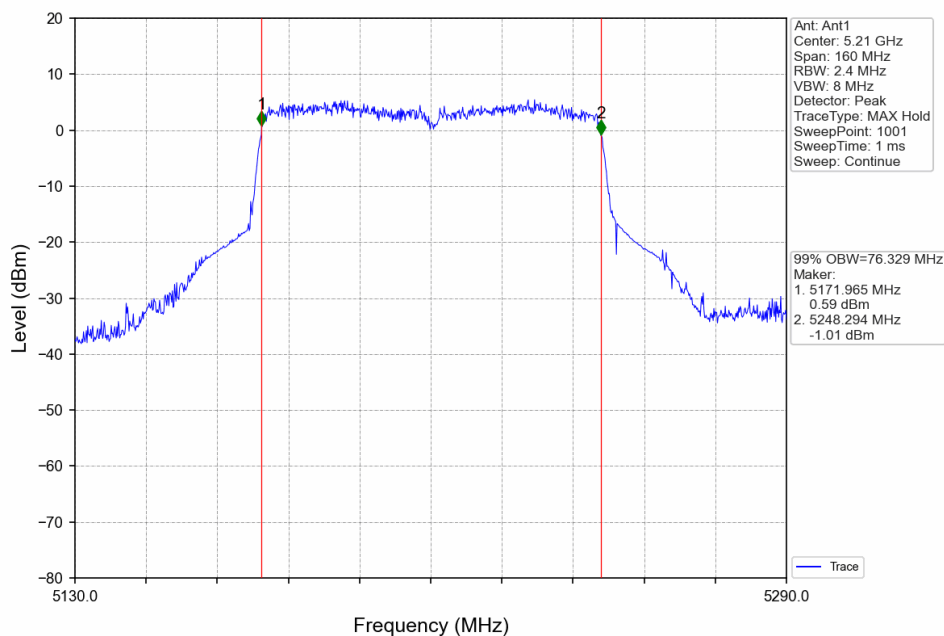


802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV

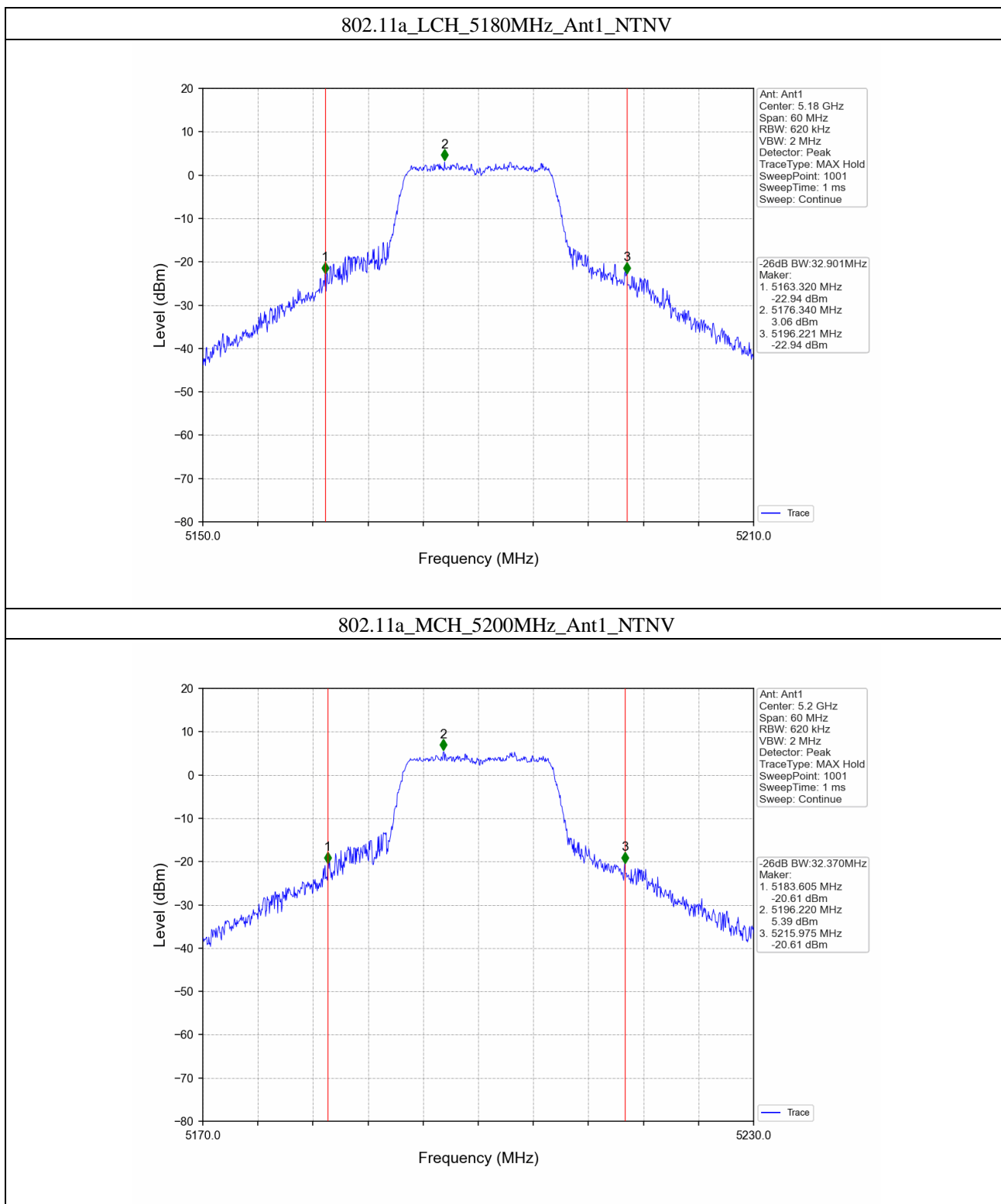


## 2.2 26dB BW

## 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	32.901	Pass
		5200	1	32.370	Pass
		5240	1	34.402	Pass
802.11n (HT20)	SISO	5180	1	39.495	Pass
		5200	1	37.811	Pass
		5240	1	39.740	Pass
802.11n (HT40)	SISO	5190	1	60.649	Pass
		5230	1	56.271	Pass
802.11ac (VHT20)	SISO	5180	1	34.106	Pass
		5200	1	38.965	Pass
		5240	1	38.583	Pass
802.11ac (VHT40)	SISO	5190	1	58.863	Pass
		5230	1	61.421	Pass
802.11ac (VHT80)	SISO	5210	1	92.011	Pass

### 2.2.2 Test Graph

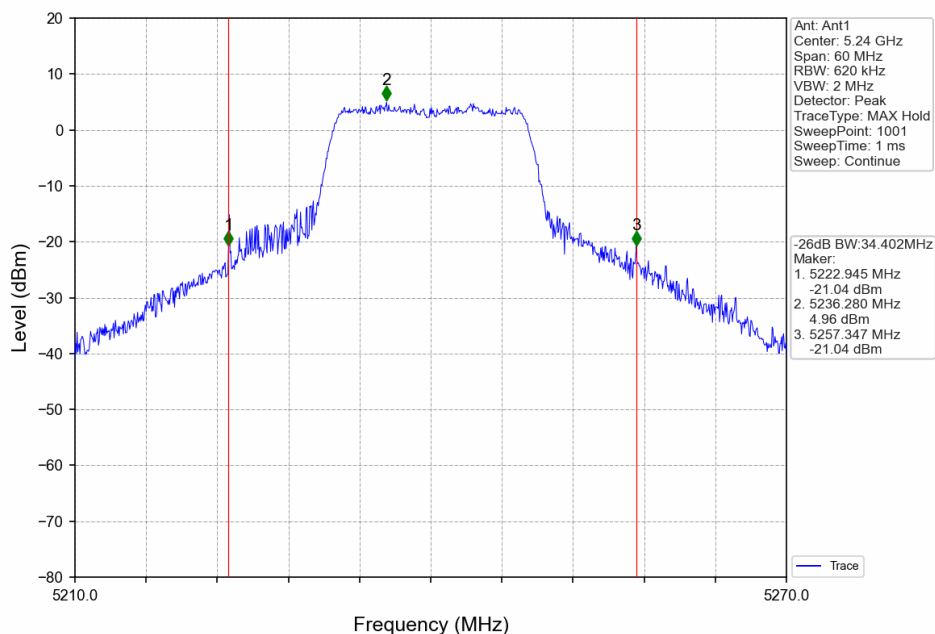


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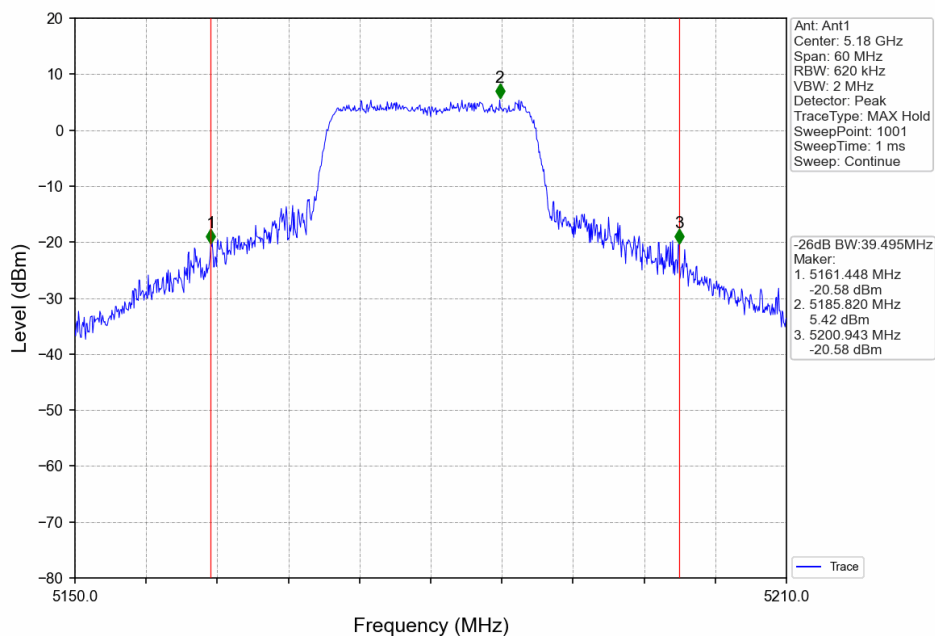
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Guangzhou branch Testing Center EEC Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

802.11a\_HCH\_5240MHz\_Ant1\_NTNV

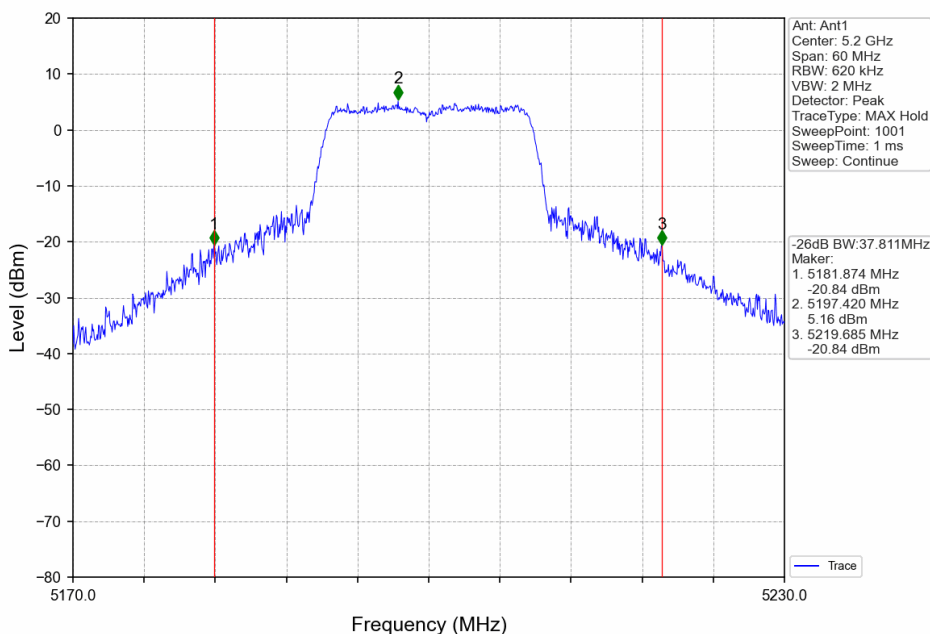


802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV

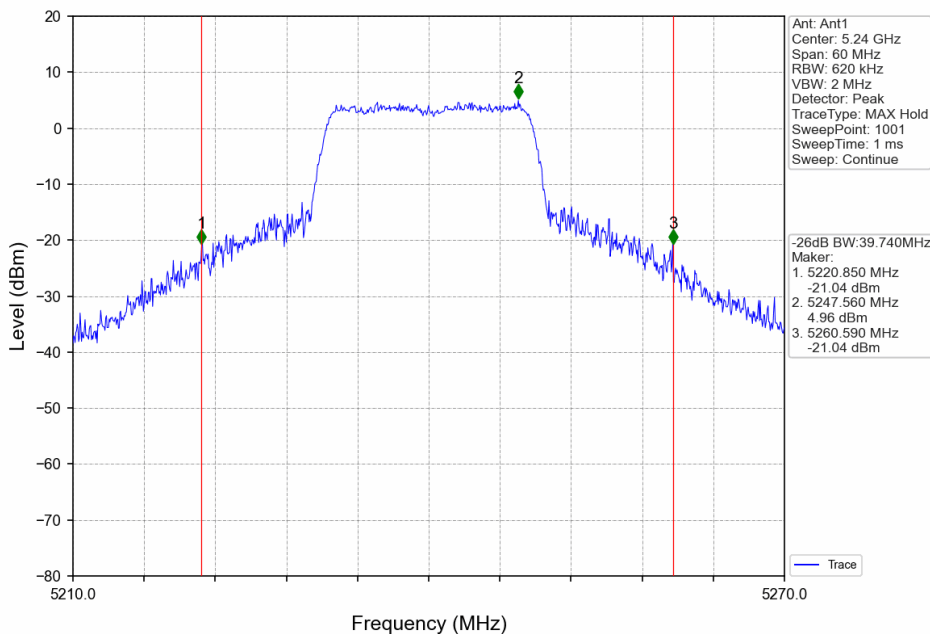




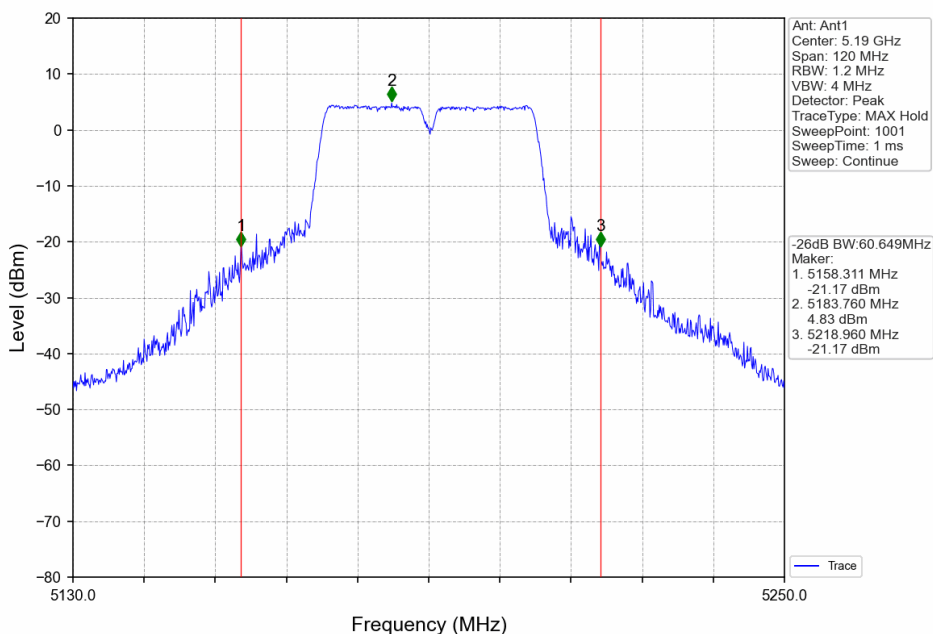
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



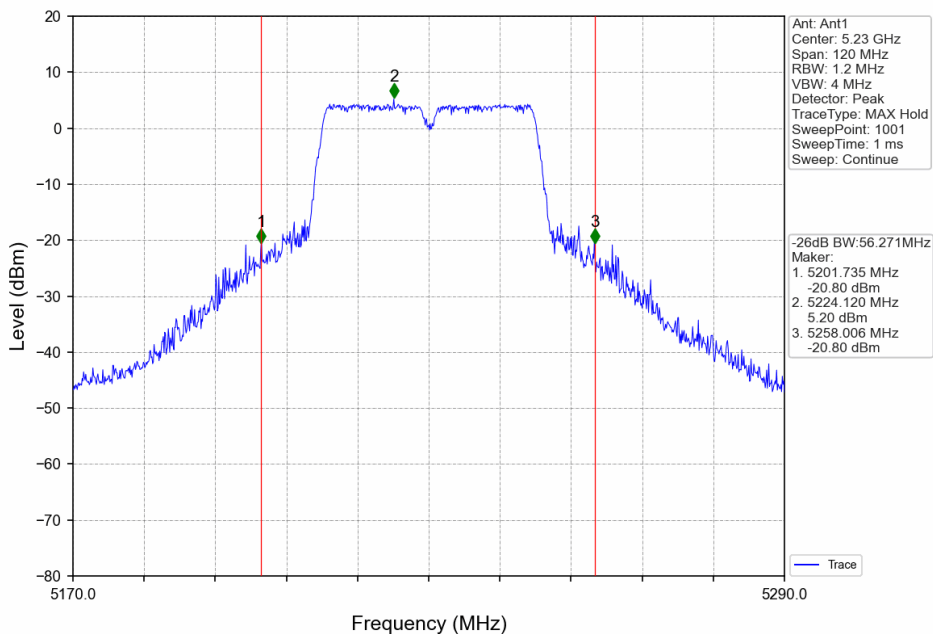
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



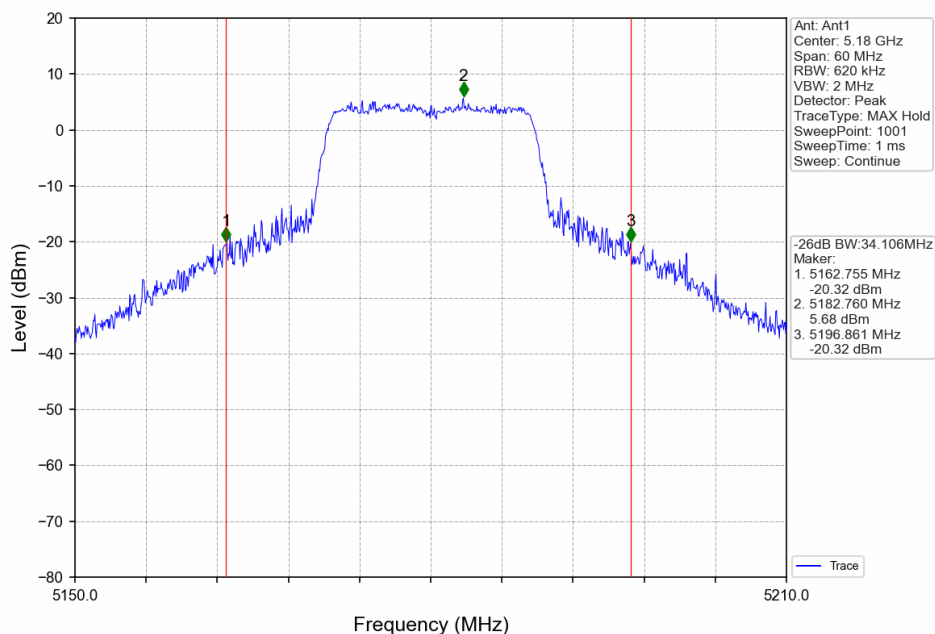
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



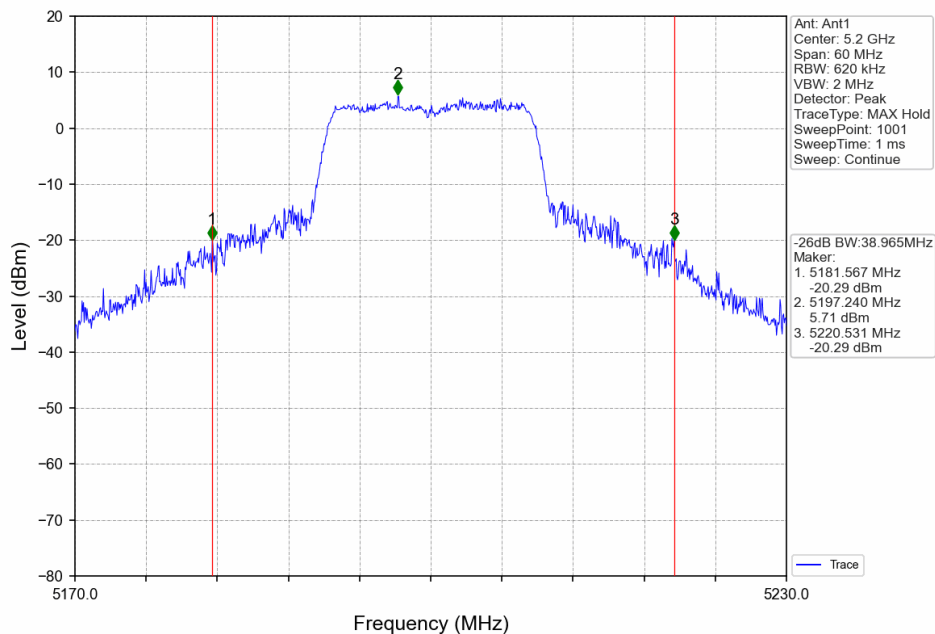
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



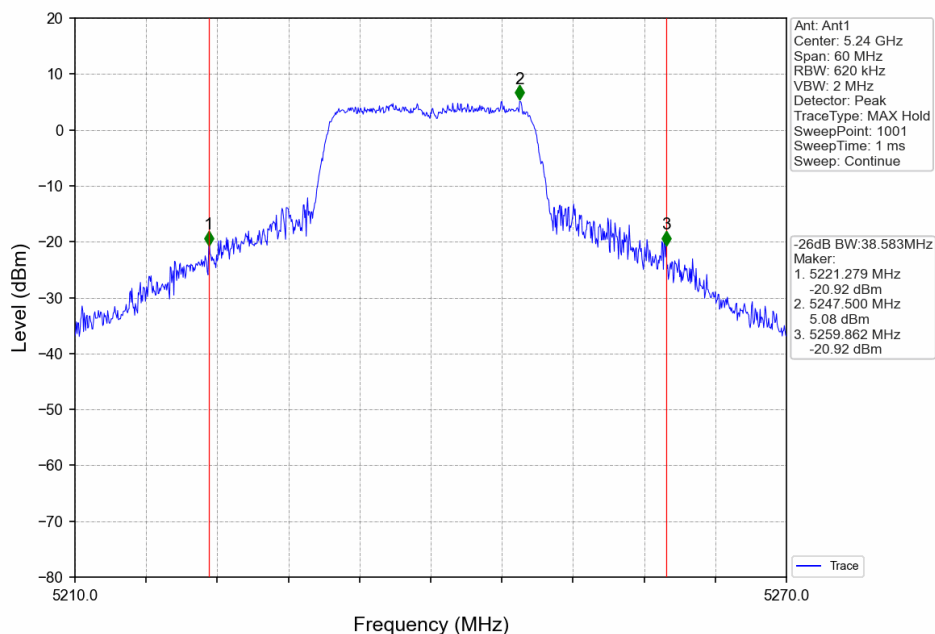
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



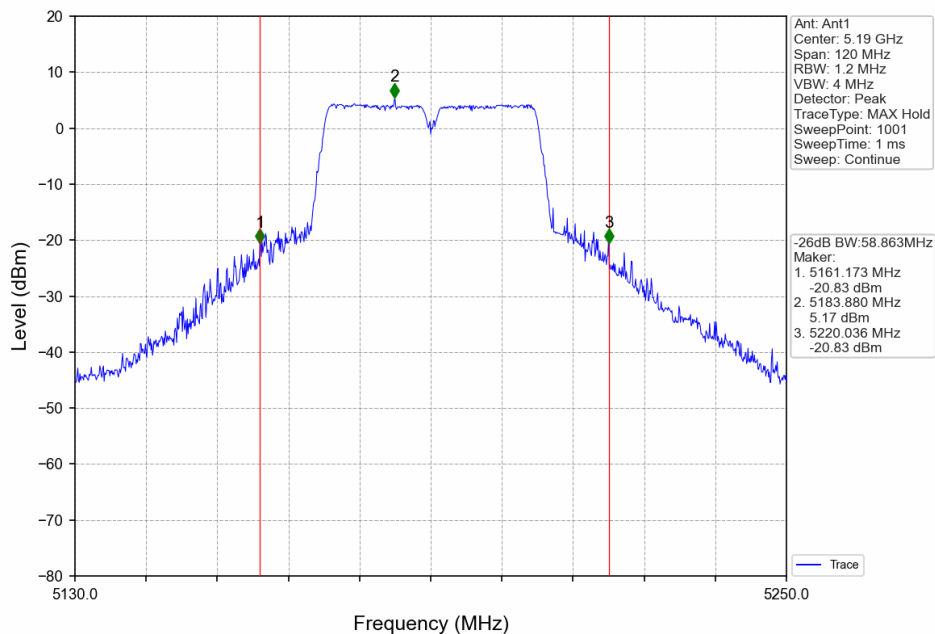
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV

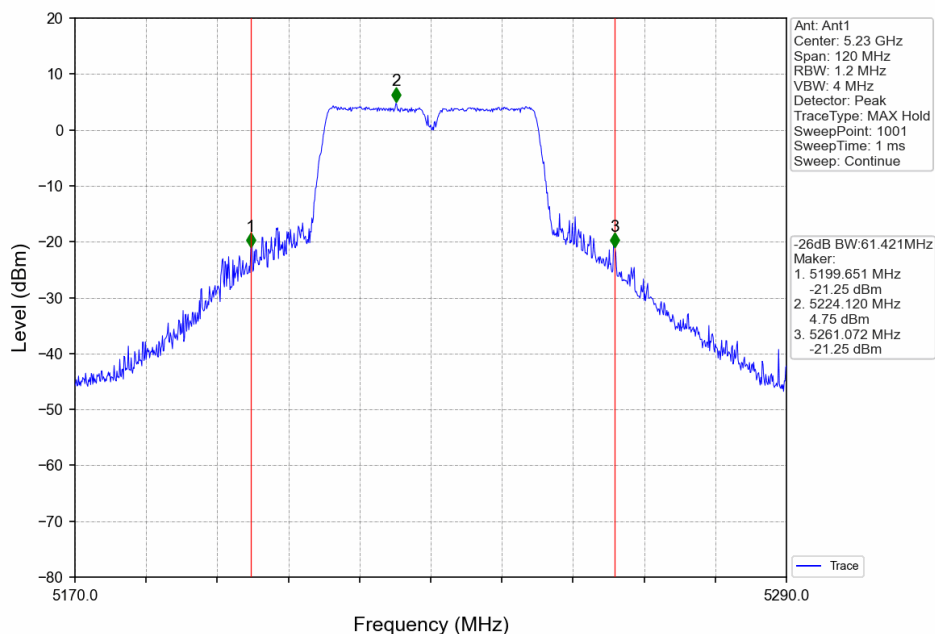


802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV

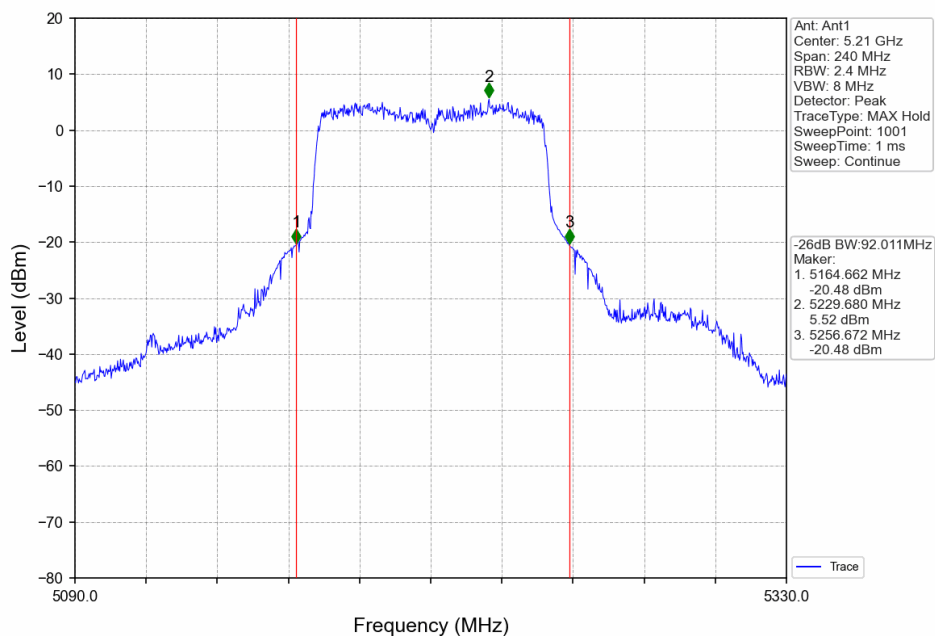




802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



## 3. Maximum Conducted Output Power

## 3.1 Power

## 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum AV Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	10.95	$\leq 23.98$	Pass
		5200	10.51	$\leq 23.98$	Pass
		5240	10.32	$\leq 23.98$	Pass
802.11n (HT20)	SISO	5180	10.91	$\leq 23.98$	Pass
		5200	10.65	$\leq 23.98$	Pass
		5240	10.57	$\leq 23.98$	Pass
802.11n (HT40)	SISO	5190	9.59	$\leq 23.98$	Pass
		5230	9.72	$\leq 23.98$	Pass
802.11ac (VHT20)	SISO	5180	10.85	$\leq 23.98$	Pass
		5200	10.76	$\leq 23.98$	Pass
		5240	10.57	$\leq 23.98$	Pass
802.11ac (VHT40)	SISO	5190	9.63	$\leq 23.98$	Pass
		5230	9.34	$\leq 23.98$	Pass
802.11ac (VHT80)	SISO	5210	8.37	$\leq 23.98$	Pass

Note1: Antenna Gain: Ant1: -1dBi;

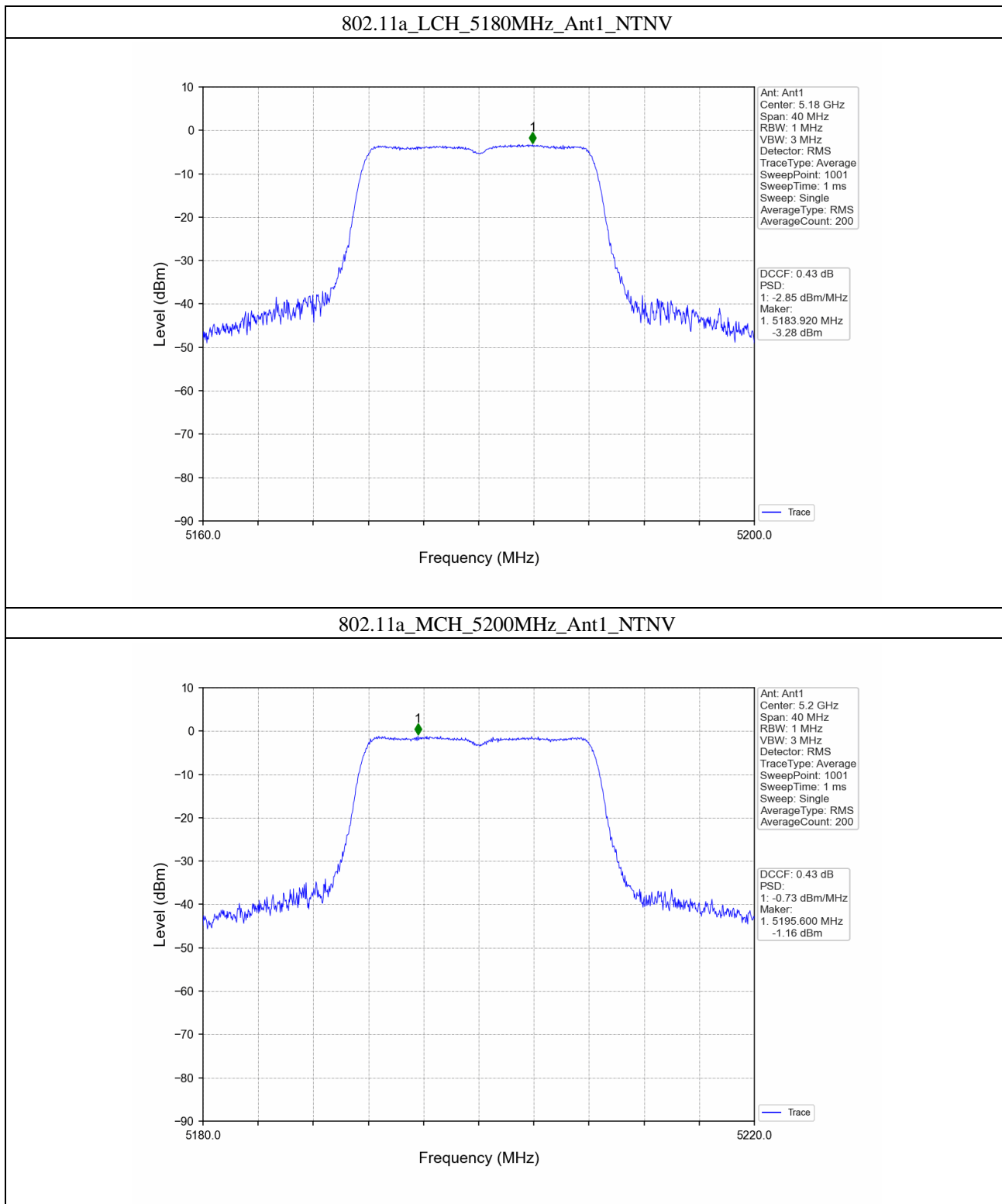
## 4. Maximum Power Spectral Density

## 4.1 PSD

## 4.1.1 Test Result

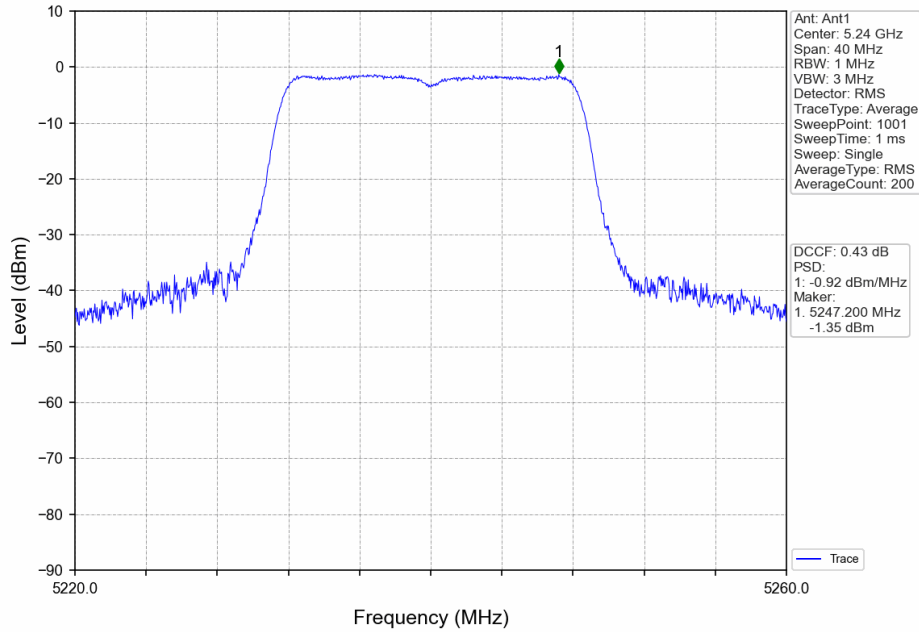
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	-2.85	$\leq -11$	Pass
		5200	-0.73	$\leq -11$	Pass
		5240	-0.92	$\leq -11$	Pass
802.11n (HT20)	SISO	5180	-0.62	$\leq -11$	Pass
		5200	-0.75	$\leq -11$	Pass
		5240	-0.70	$\leq -11$	Pass
802.11n (HT40)	SISO	5190	-5.07	$\leq -11$	Pass
		5230	-4.85	$\leq -11$	Pass
802.11ac (VHT20)	SISO	5180	-0.67	$\leq -11$	Pass
		5200	-0.76	$\leq -11$	Pass
		5240	-0.93	$\leq -11$	Pass
802.11ac (VHT40)	SISO	5190	-4.71	$\leq -11$	Pass
		5230	-5.04	$\leq -11$	Pass
802.11ac (VHT80)	SISO	5210	-8.76	$\leq -11$	Pass
Note1: Antenna Gain: Ant1: -1dBi;					

### 4.1.2 Test Graph

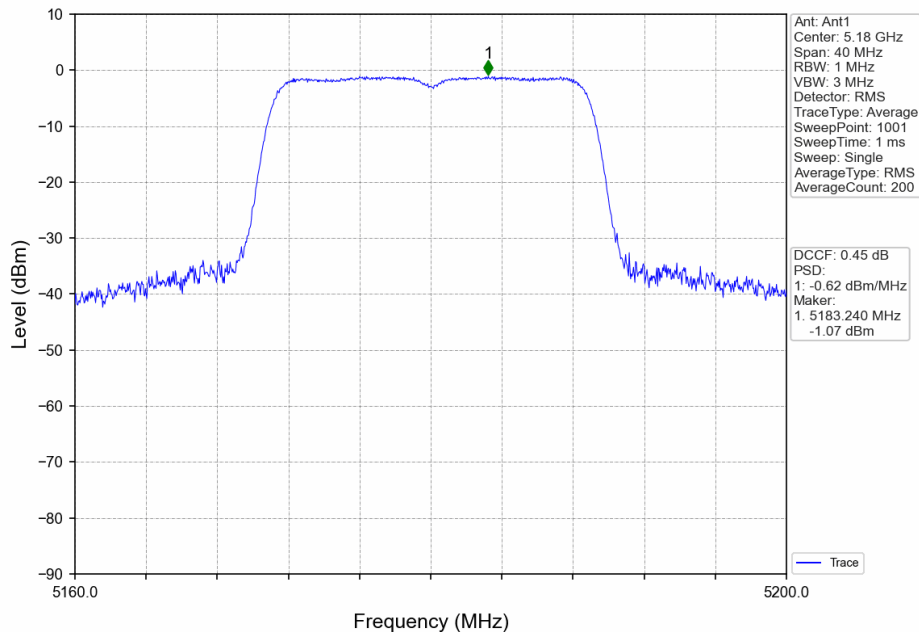




802.11a\_HCH\_5240MHz\_Ant1\_NTNV

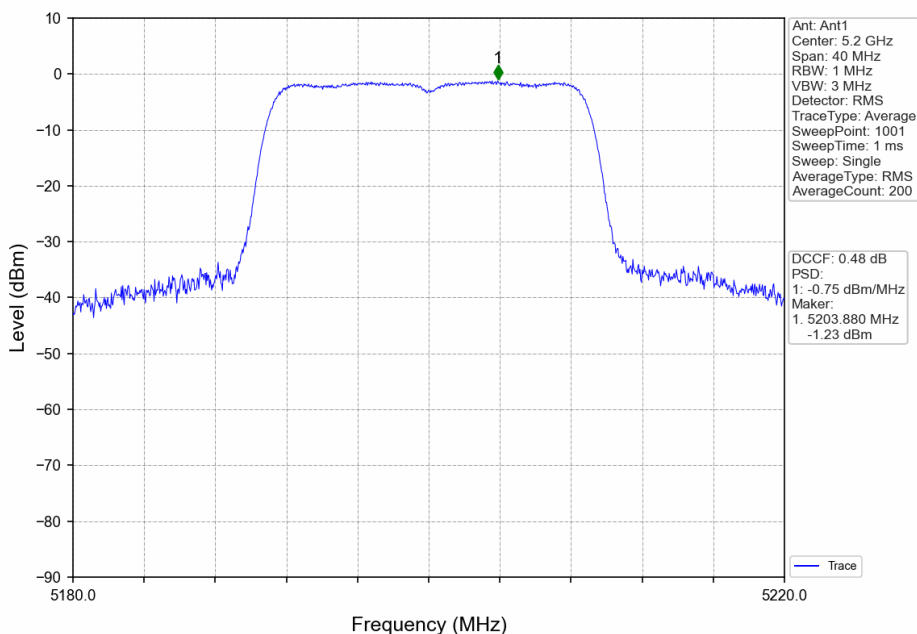


802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV

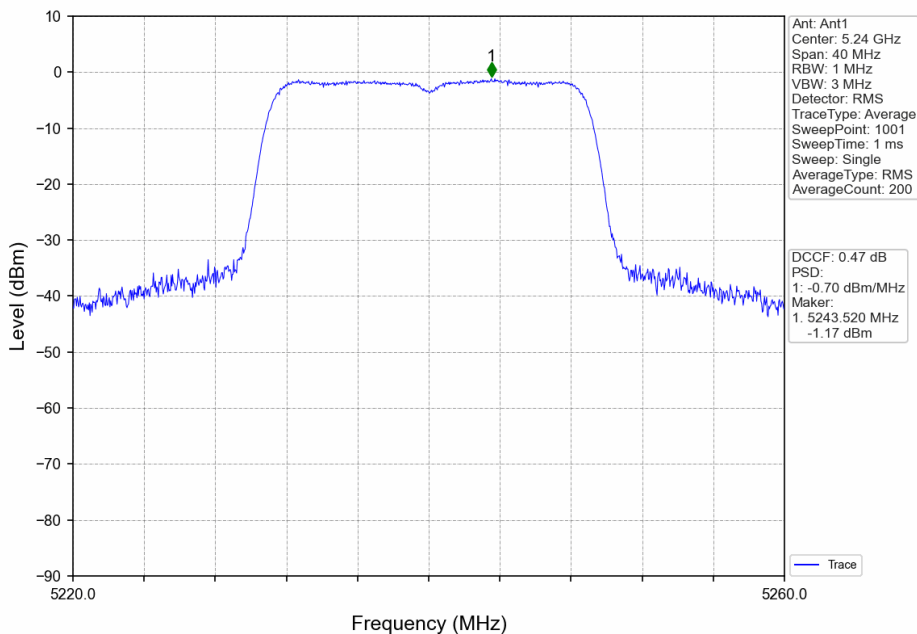


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802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV

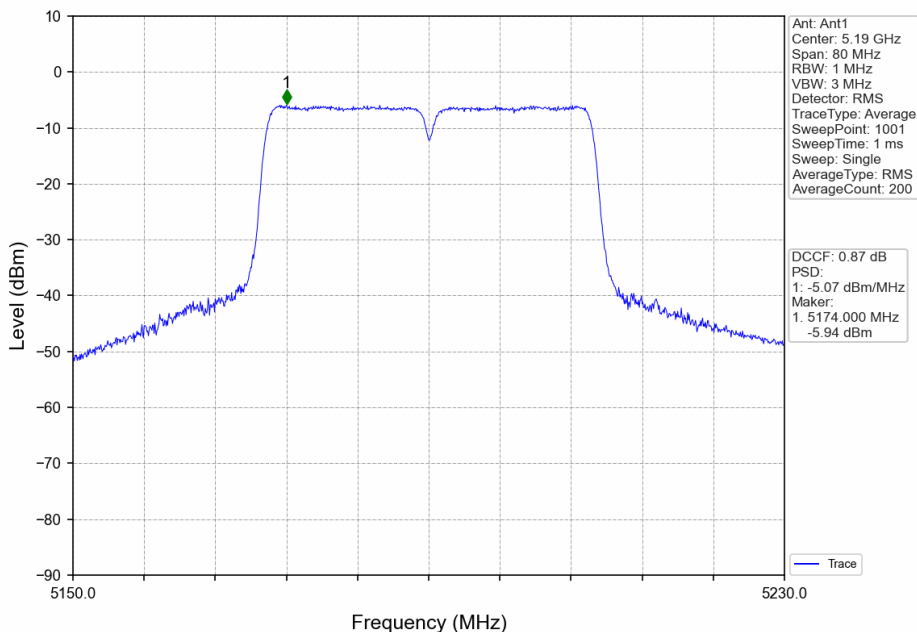


802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV

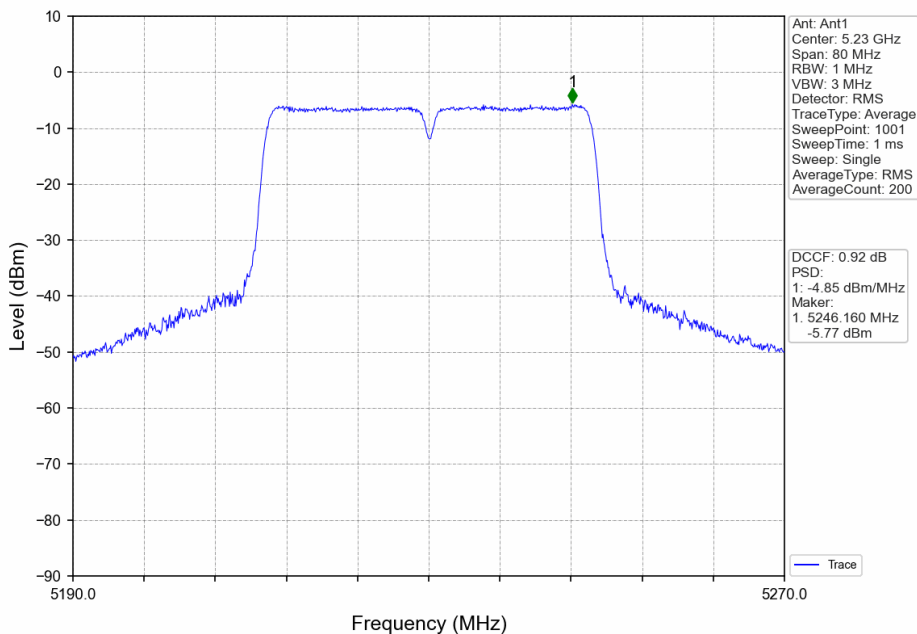


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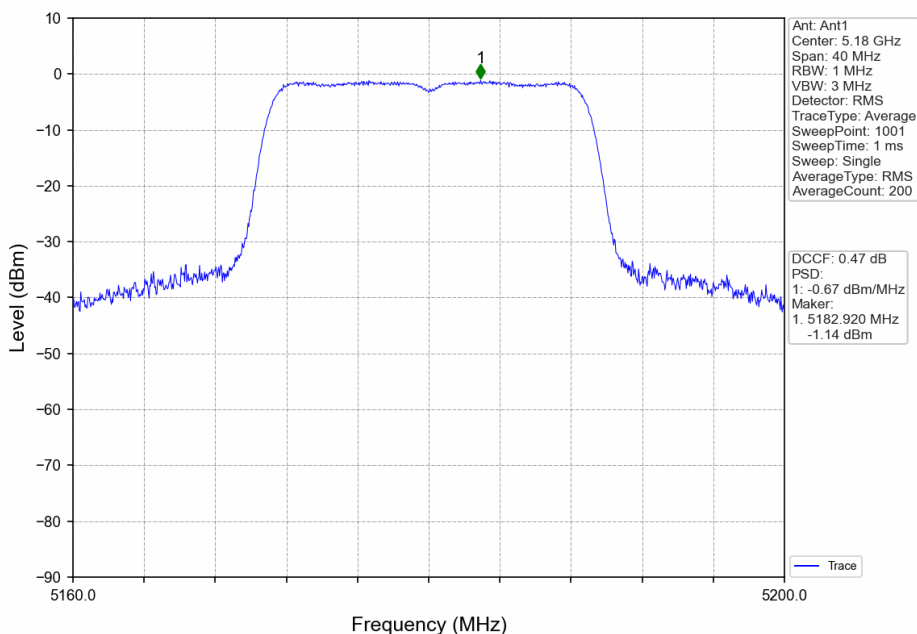
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



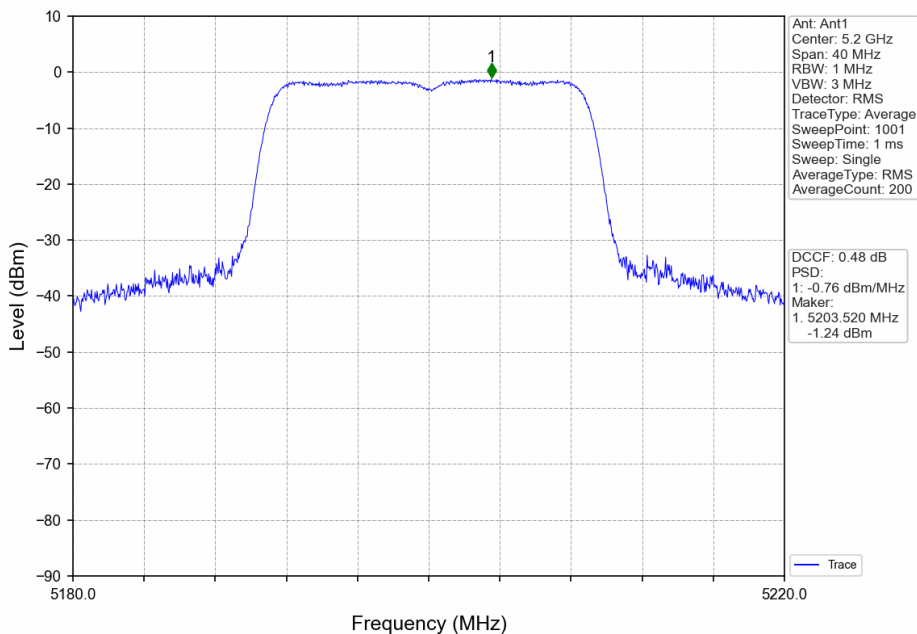
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



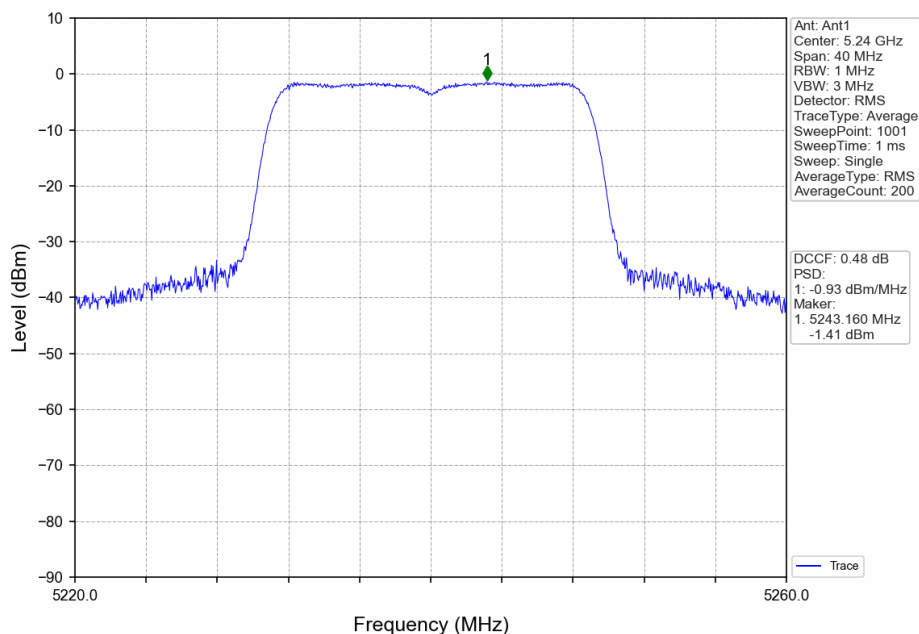
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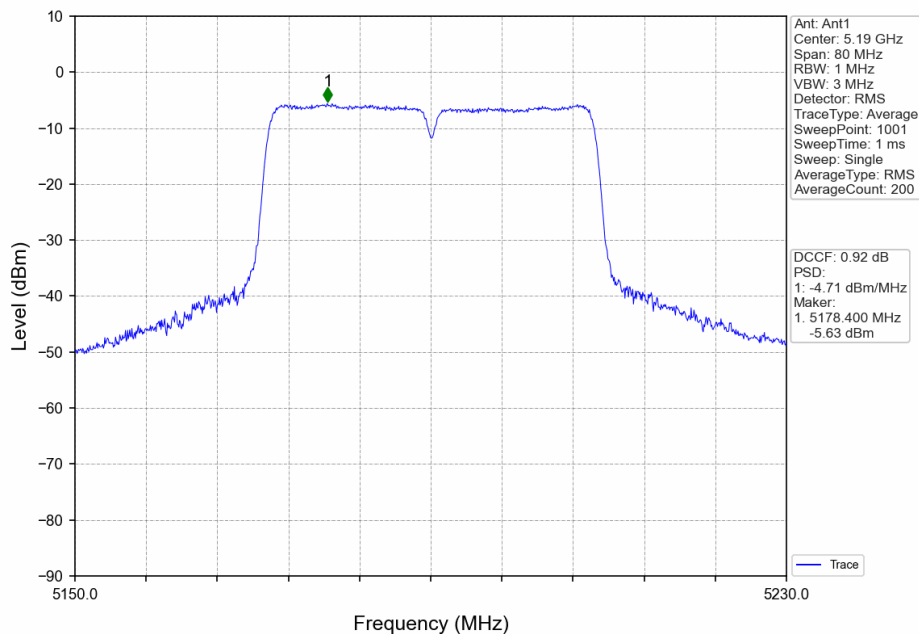
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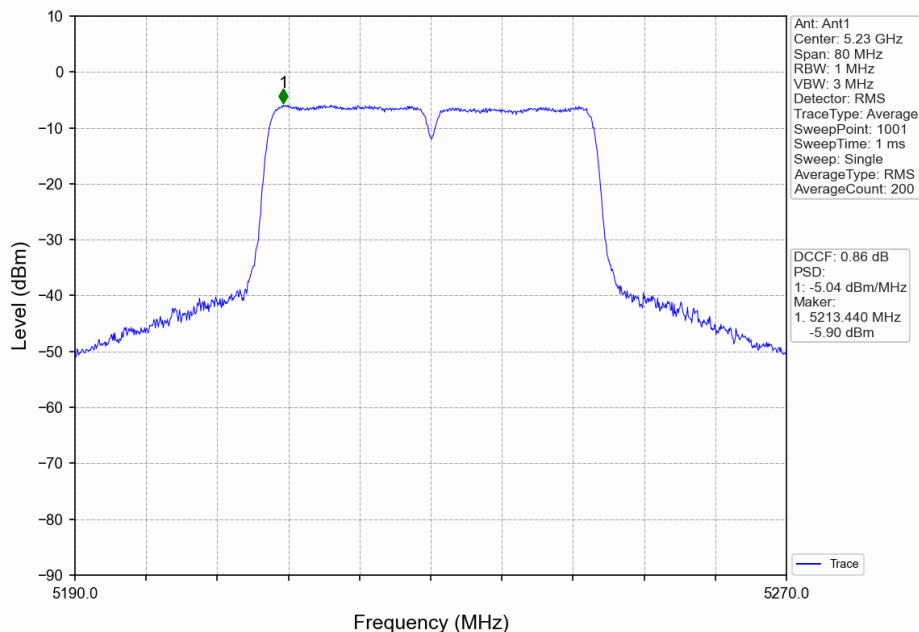
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



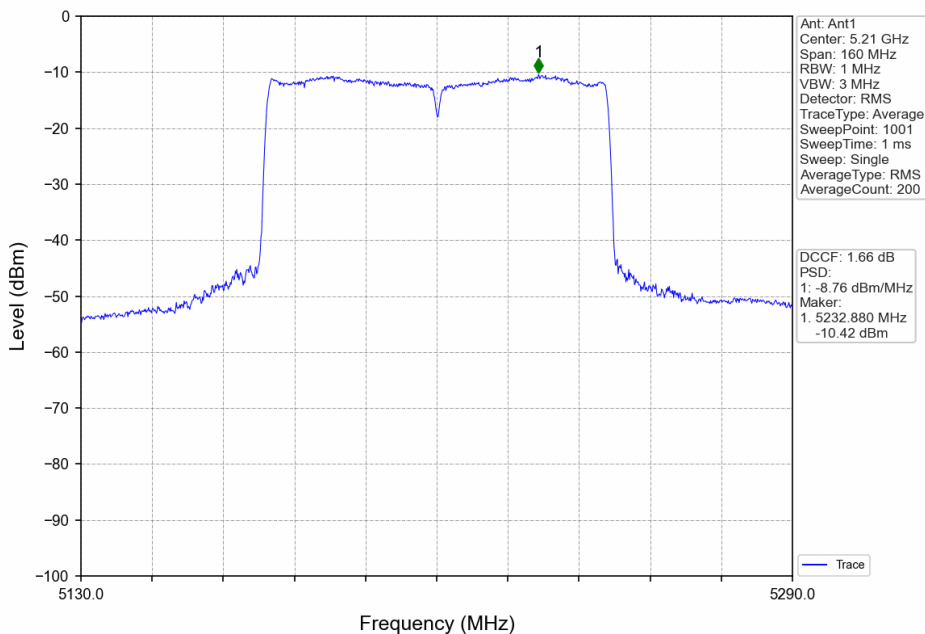
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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## Band: U-NII-3

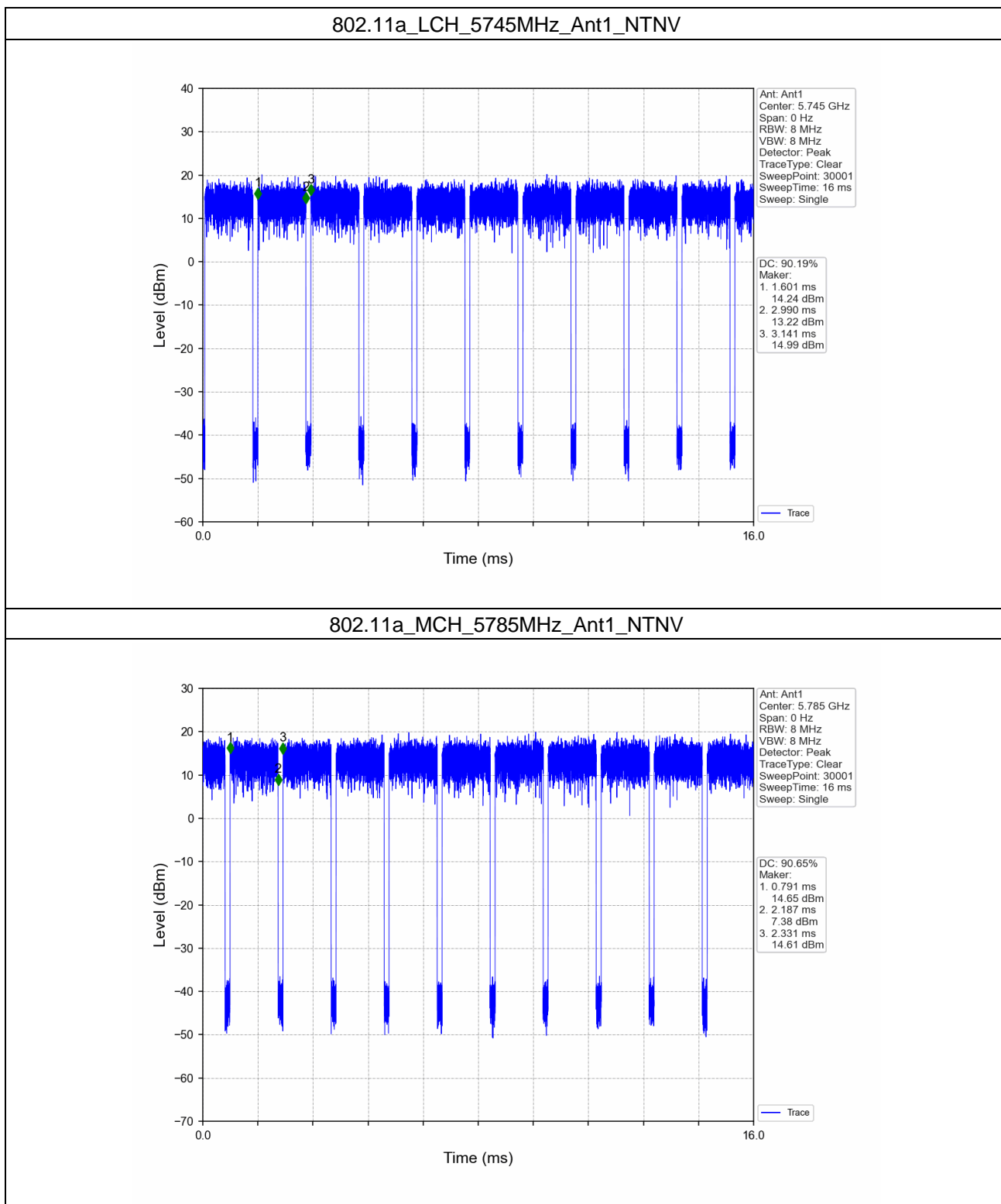
## 1. Duty Cycle

## 1.1 Ant1

## 1.1.1 Test Result

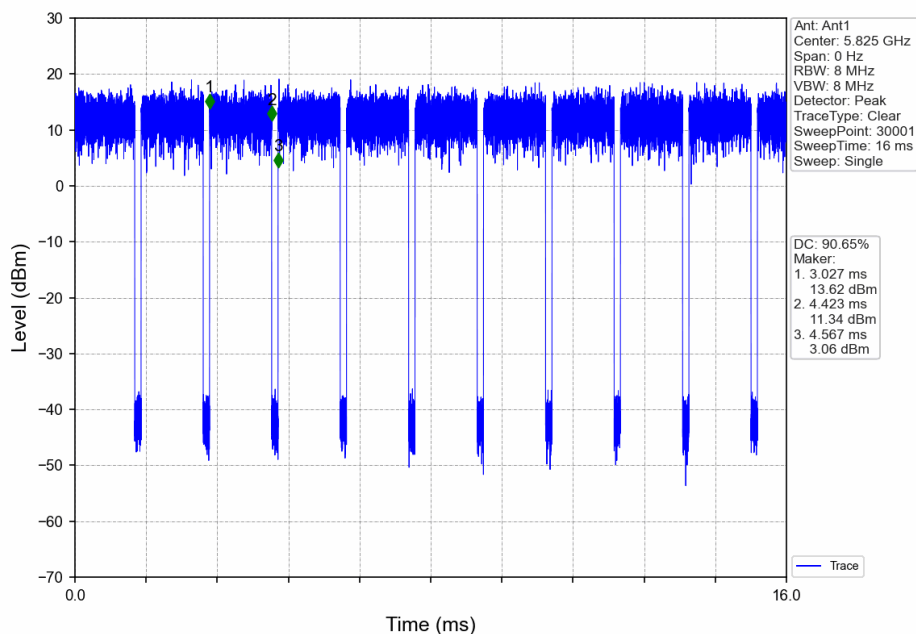
Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	1.389	1.540	90.19	0.45	0.03
		5785	1.396	1.540	90.65	0.43	0.00
		5825	1.396	1.540	90.65	0.43	0.00
802.11n (HT20)	SISO	5745	1.302	1.452	89.67	0.47	0.03
		5785	1.300	1.452	89.53	0.48	0.03
		5825	1.301	1.452	89.60	0.48	0.03
802.11n (HT40)	SISO	5755	0.641	0.792	80.93	0.92	0.06
		5795	0.648	0.792	81.82	0.87	0.00
802.11ac (VHT20)	SISO	5745	1.308	1.459	89.65	0.47	0.03
		5785	1.308	1.460	89.59	0.48	0.03
		5825	1.309	1.460	89.66	0.47	0.03
802.11ac (VHT40)	SISO	5755	1.309	1.460	89.66	0.47	0.03
		5795	0.641	1.104	58.06	2.36	23.15
802.11ac (VHT80)	SISO	5775	0.315	0.467	67.45	1.71	0.07

### 1.1.2 Test Graph

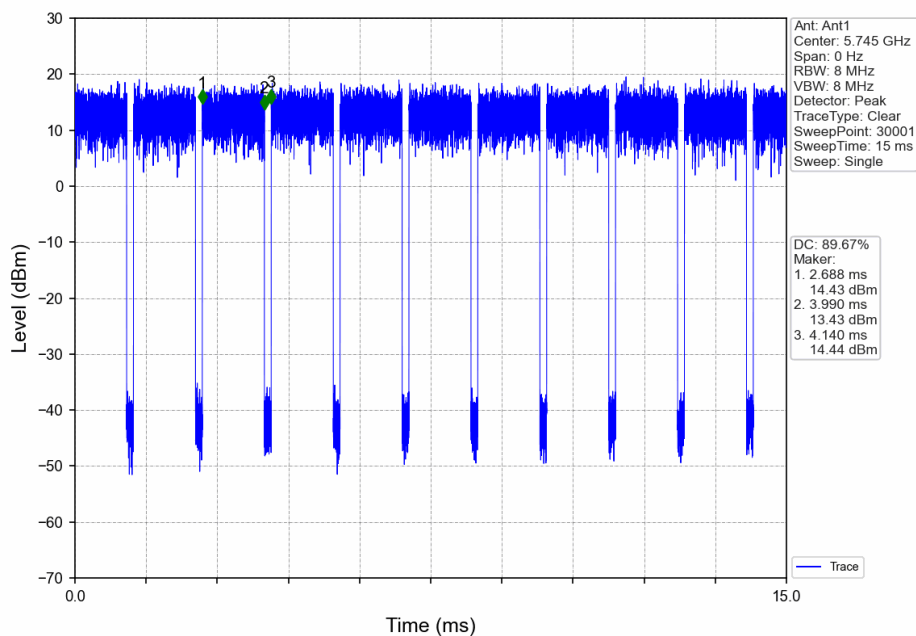




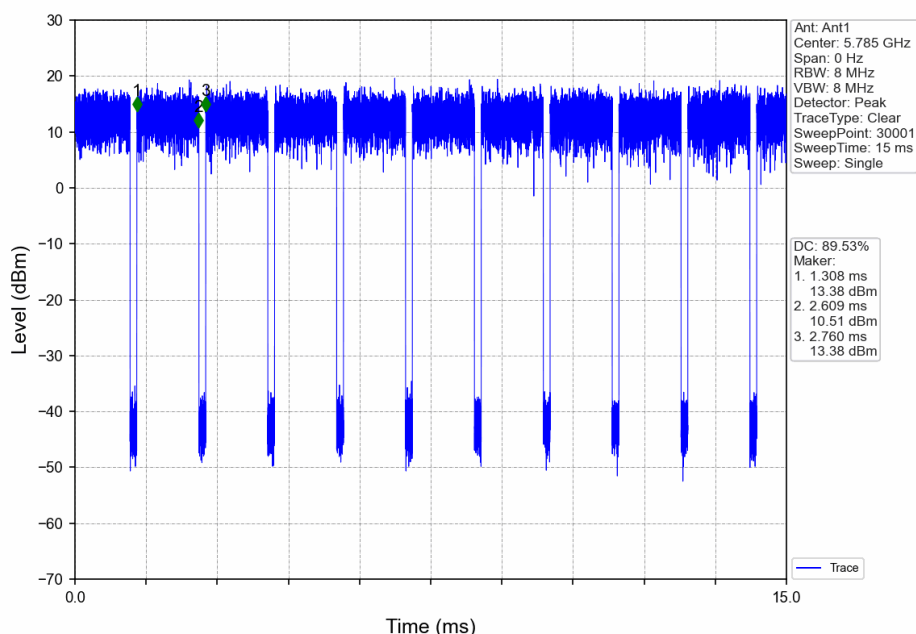
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



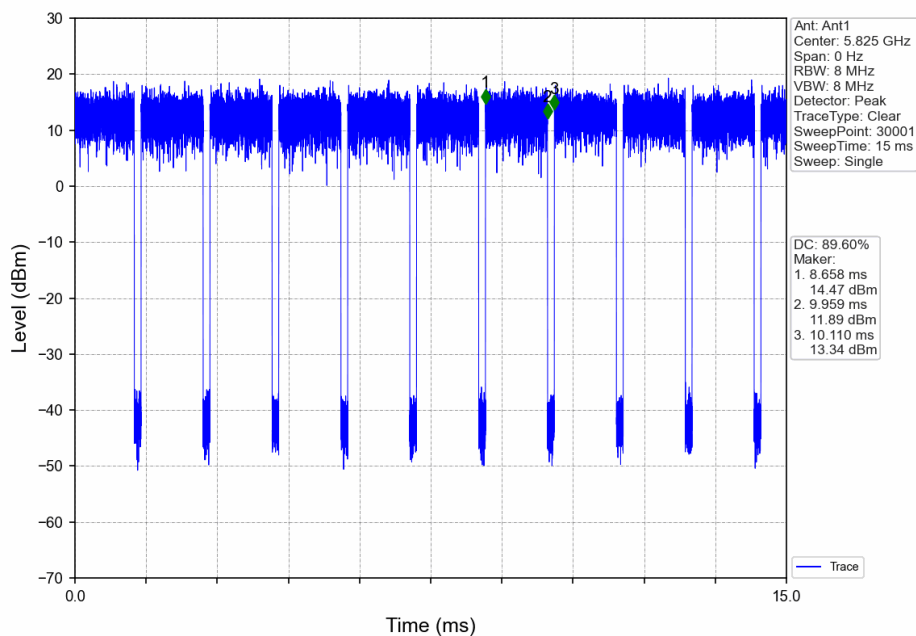
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



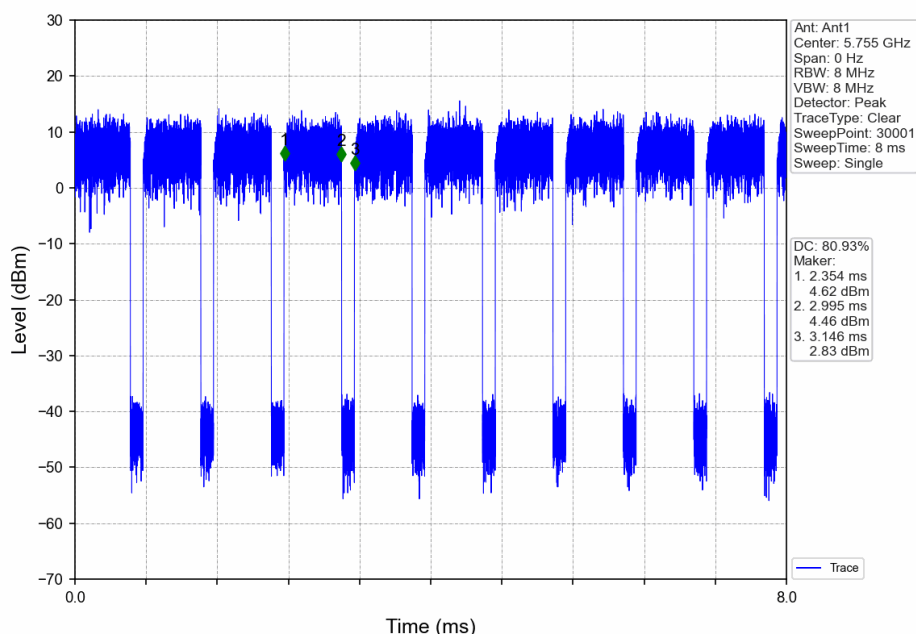
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



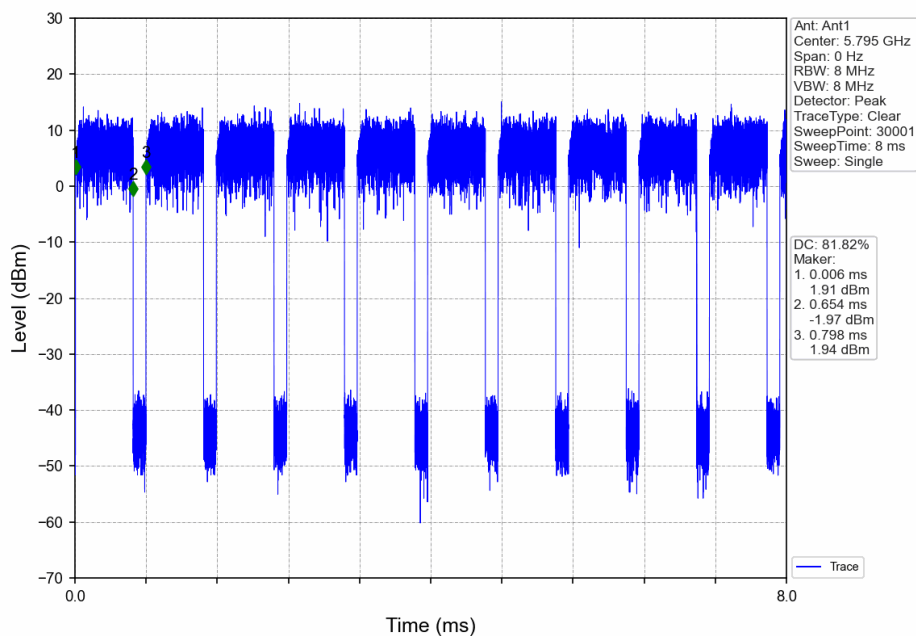
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



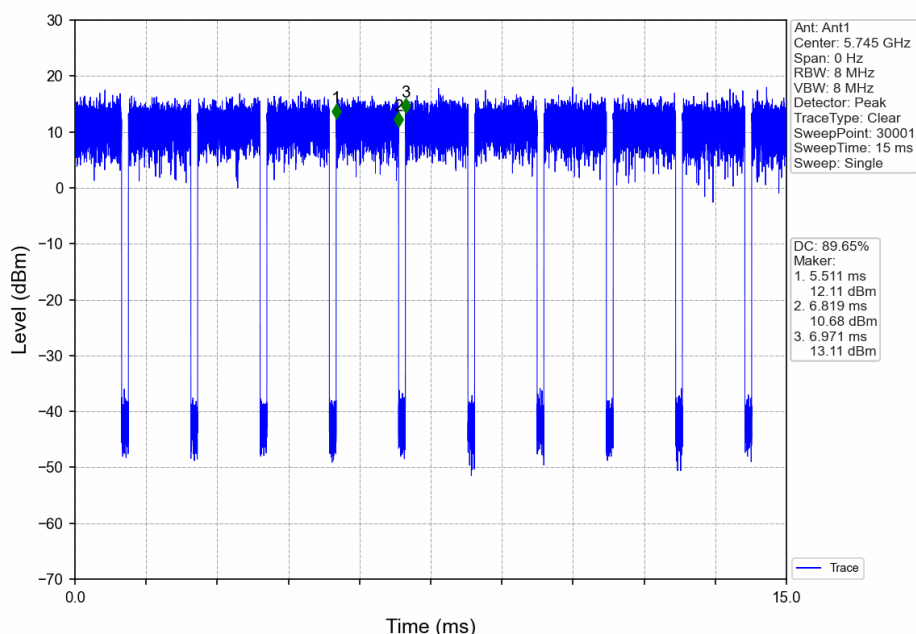
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



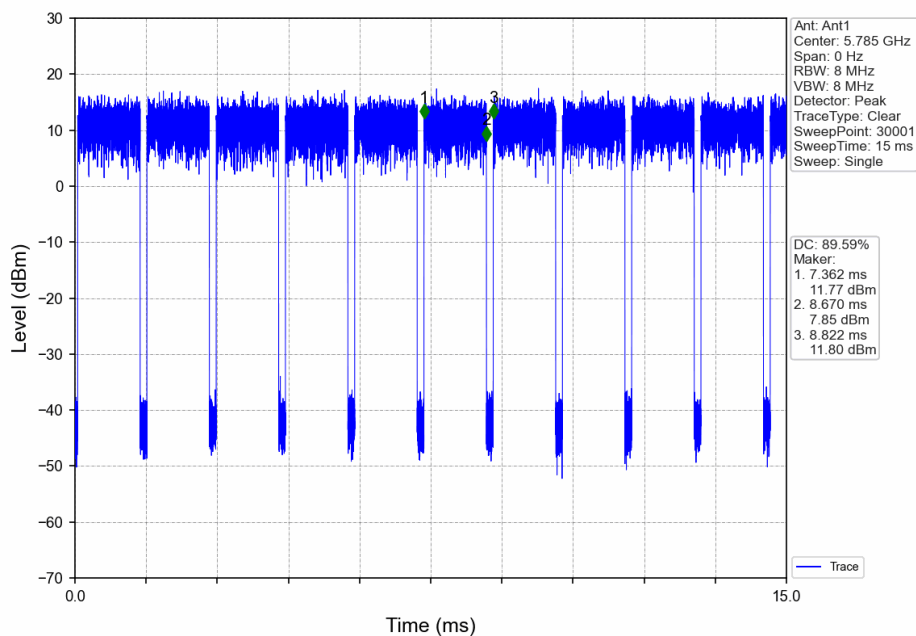
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV

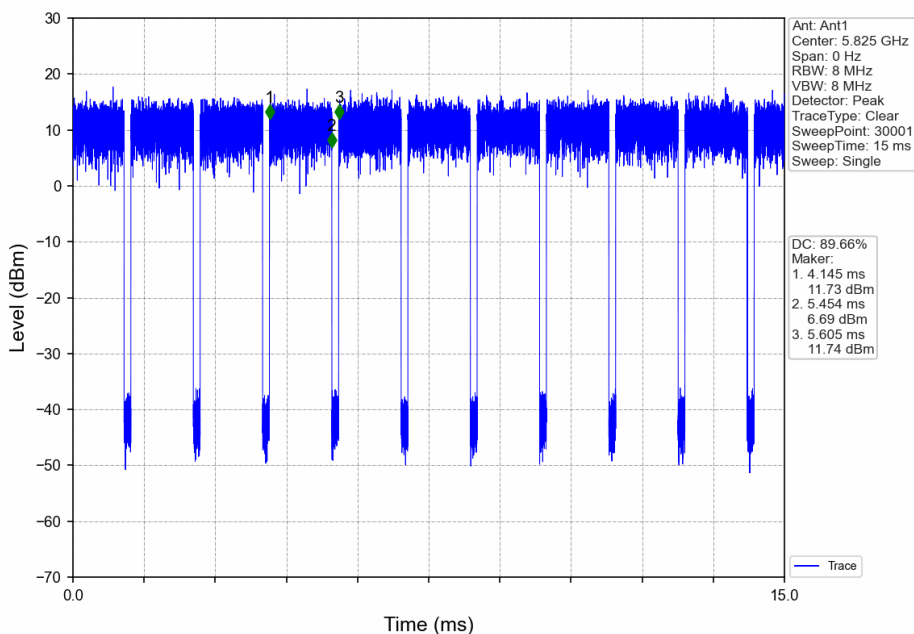


802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV

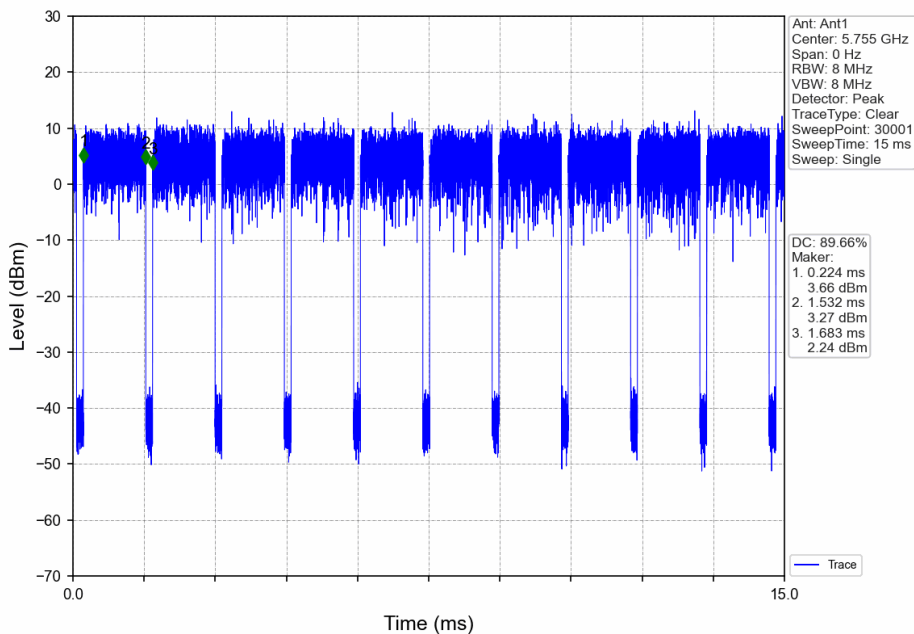




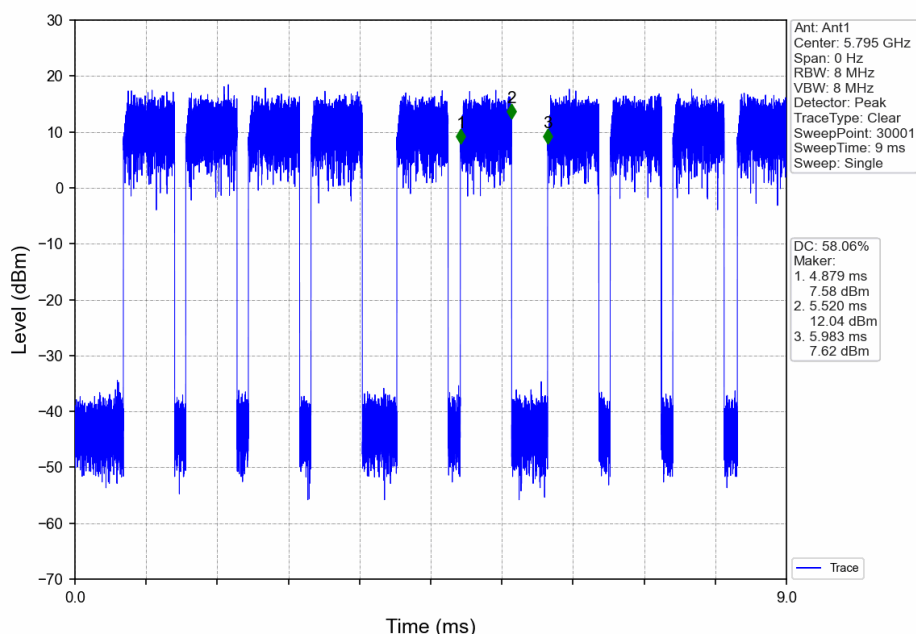
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



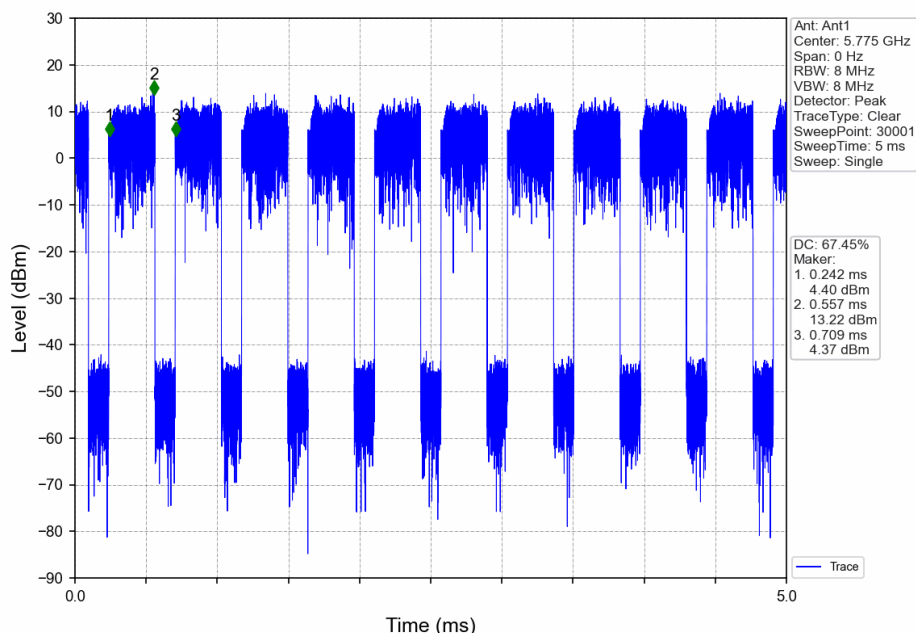
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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



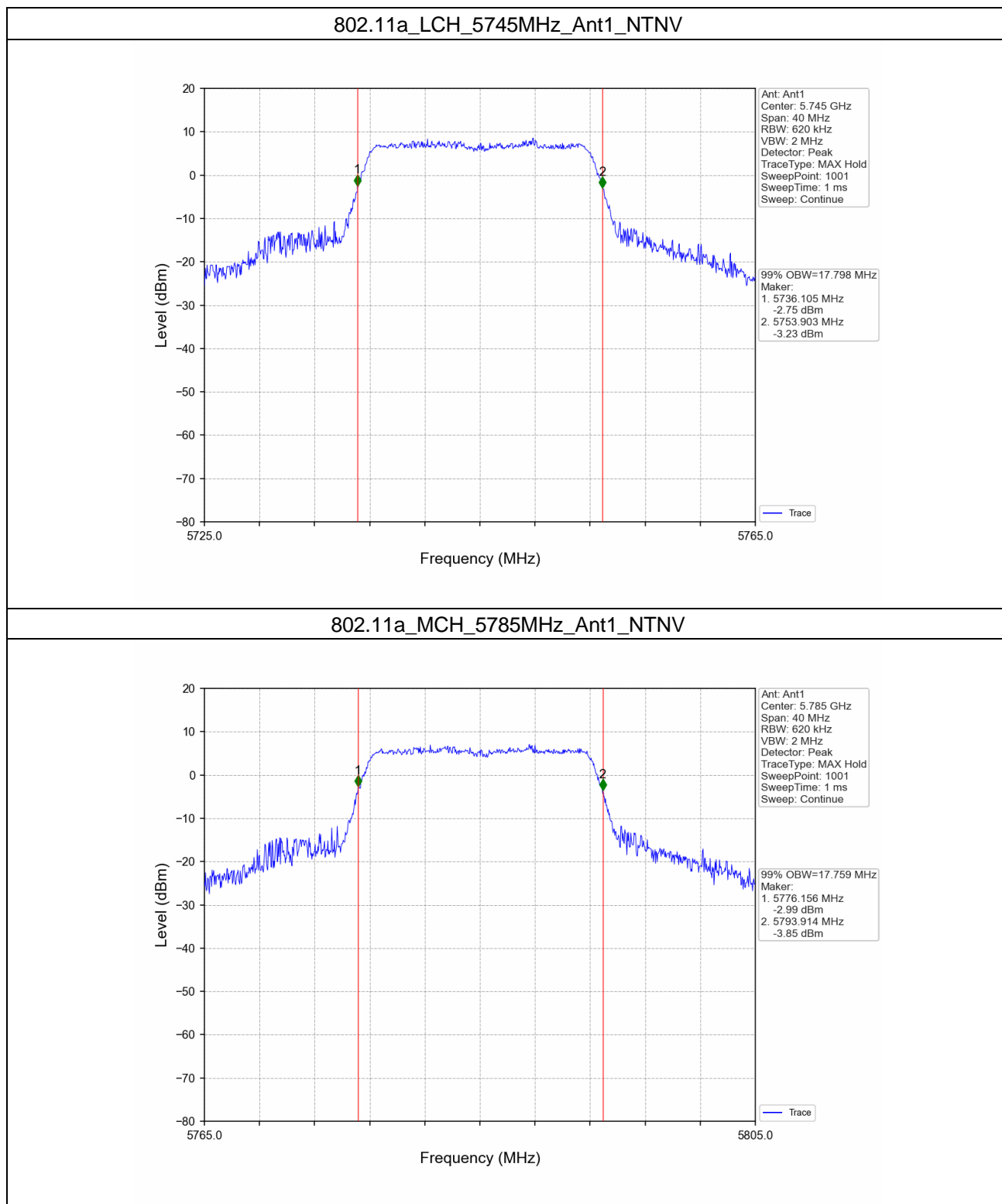
## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

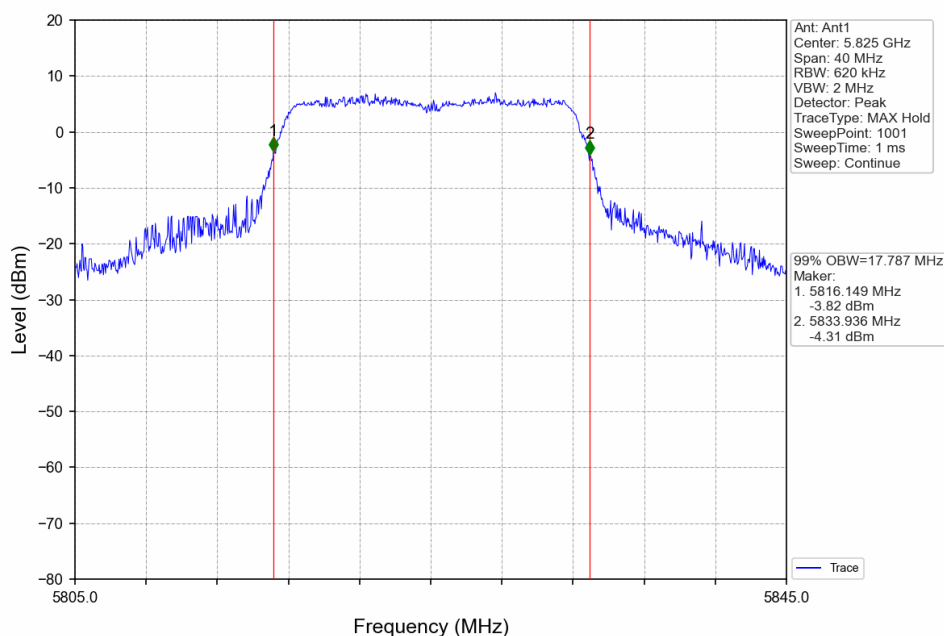
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5745	1	17.798	Pass
		5785	1	17.759	Pass
		5825	1	17.787	Pass
802.11n (HT20)	SISO	5745	1	18.862	Pass
		5785	1	18.810	Pass
		5825	1	18.673	Pass
802.11n (HT40)	SISO	5755	1	36.956	Pass
		5795	1	36.947	Pass
802.11ac (VHT20)	SISO	5745	1	18.771	Pass
		5785	1	18.775	Pass
		5825	1	18.897	Pass
802.11ac (VHT40)	SISO	5755	1	36.563	Pass
		5795	1	36.549	Pass
802.11ac (VHT80)	SISO	5775	1	76.350	Pass

## 2.1.2 Test Graph

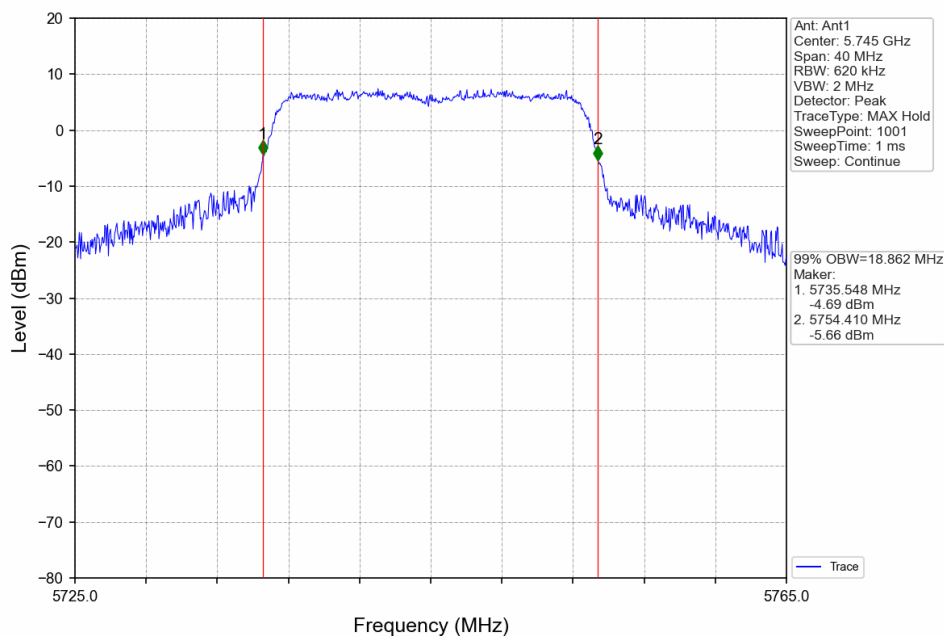




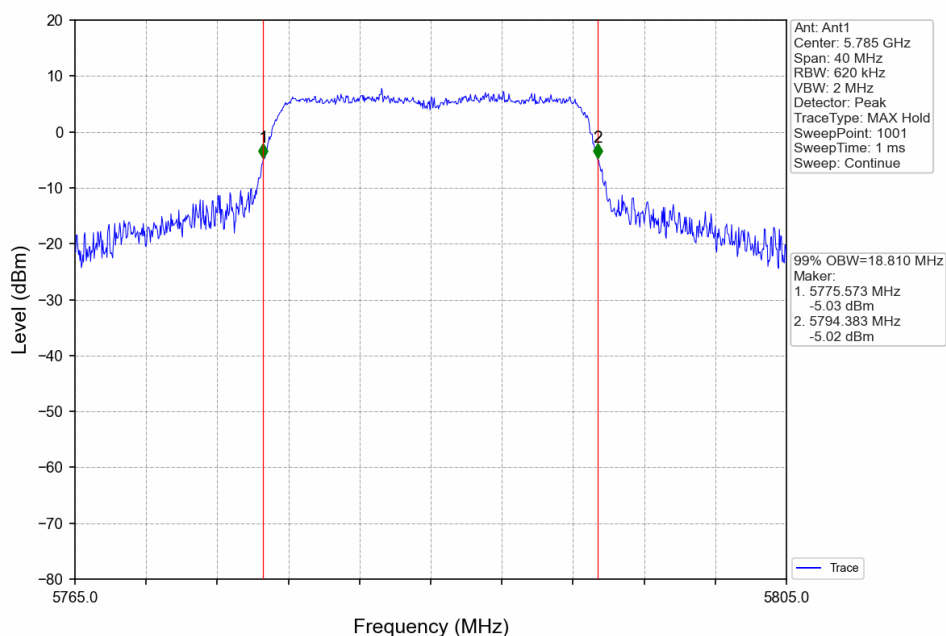
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



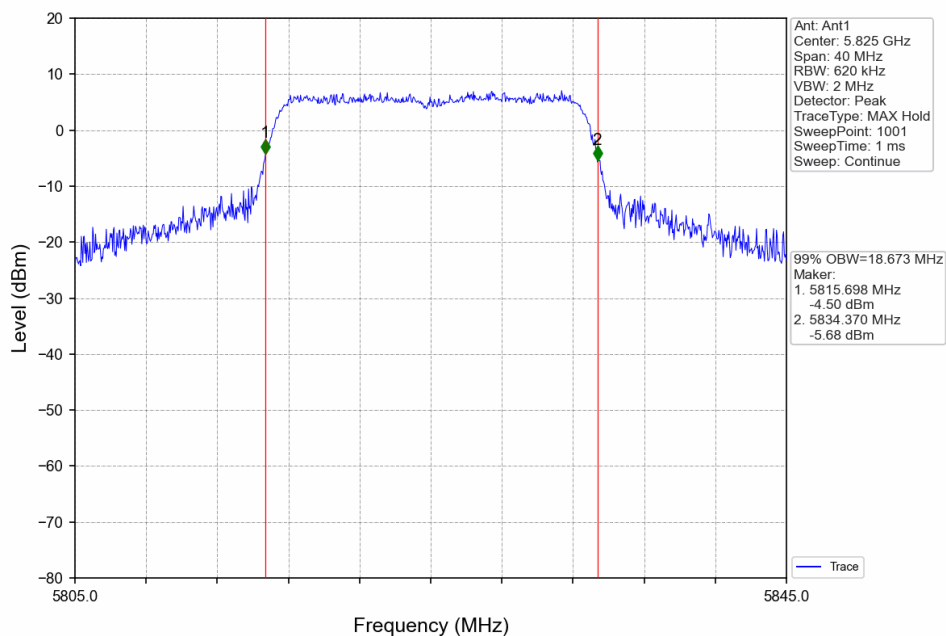
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



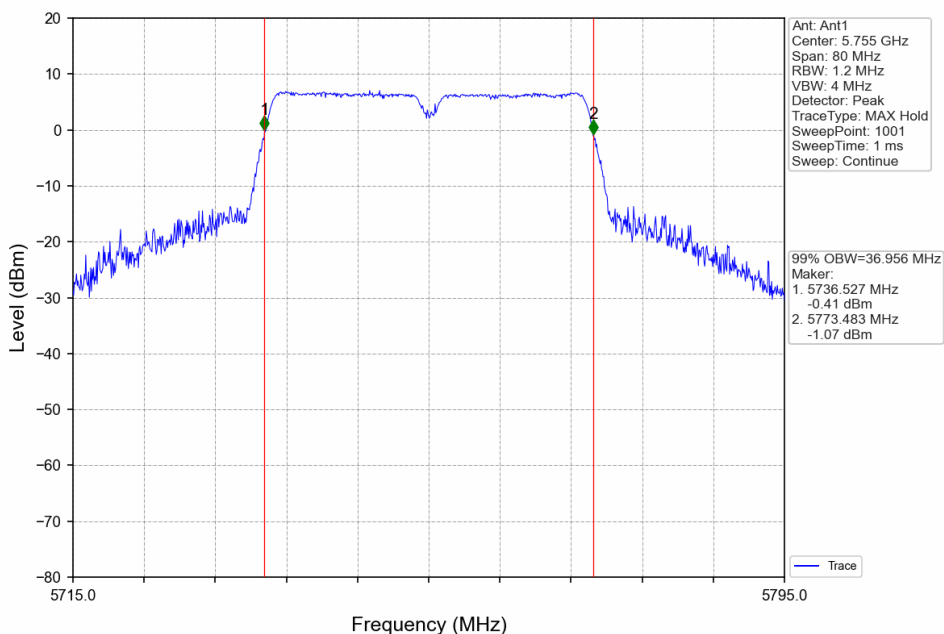
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



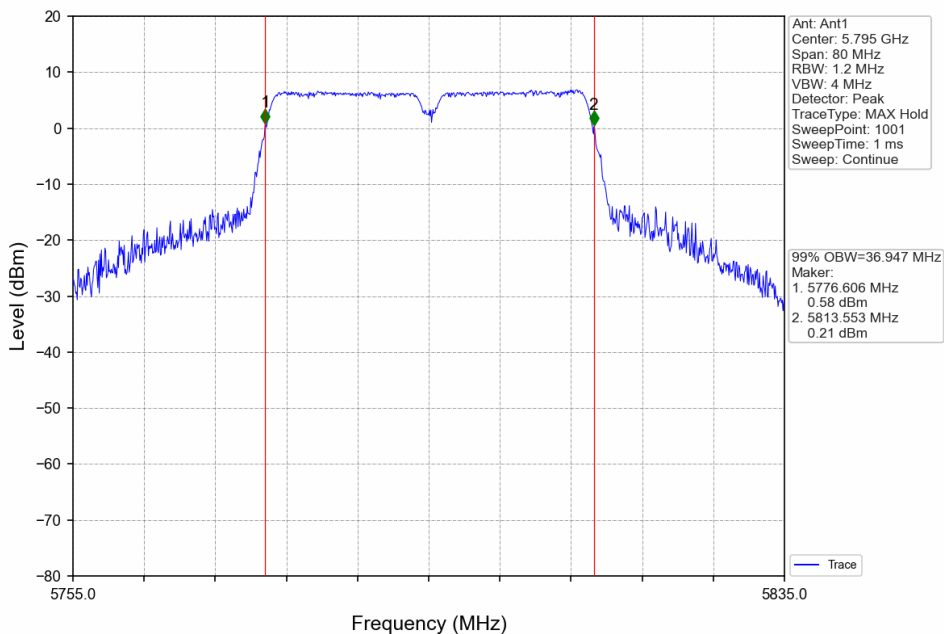
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



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

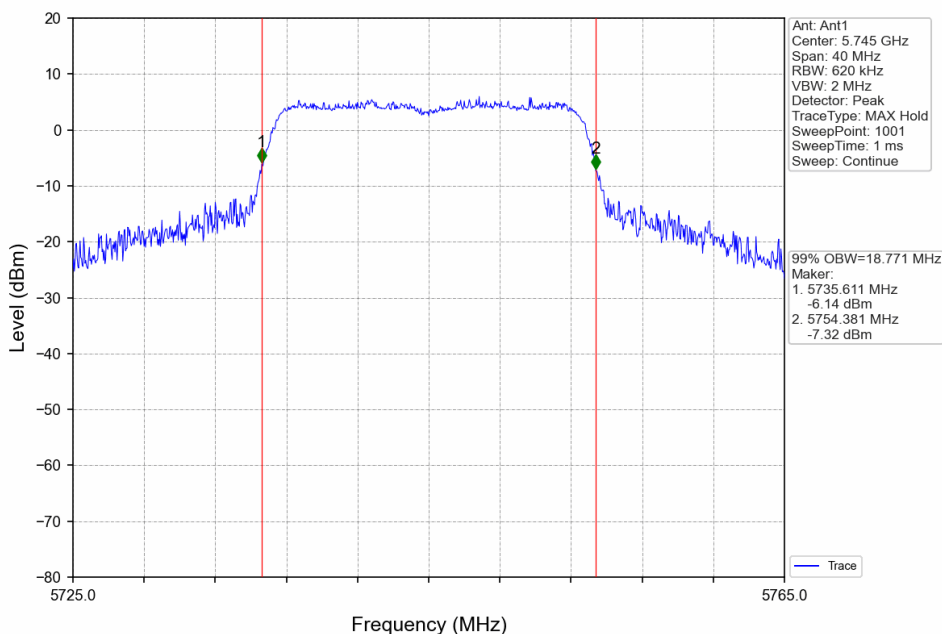


802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV

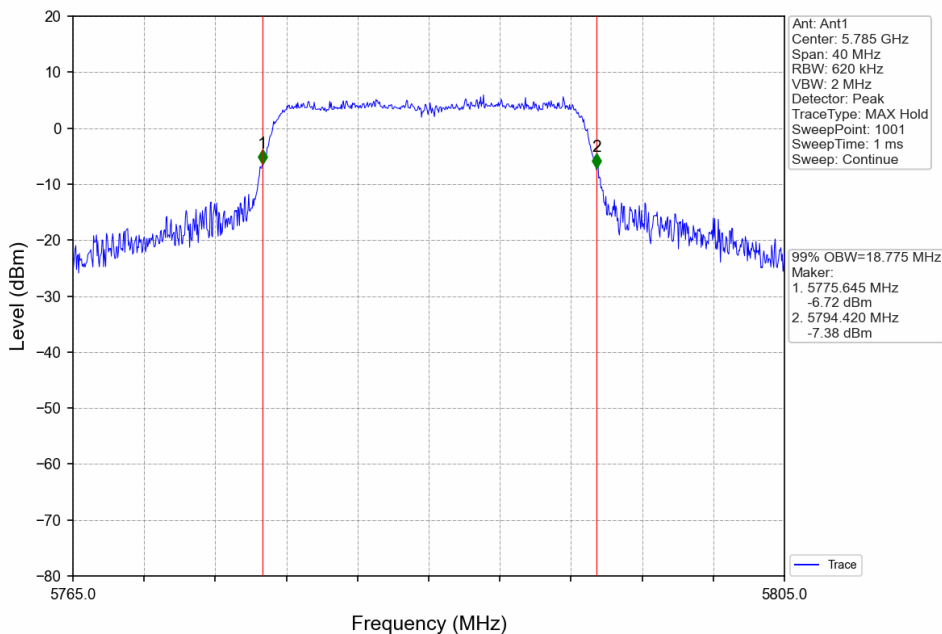


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802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



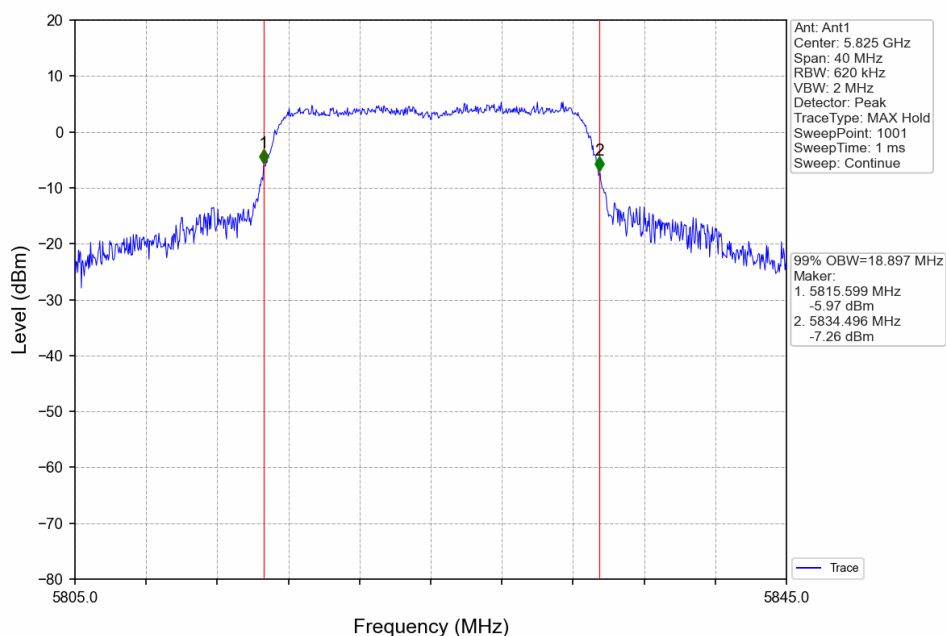
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



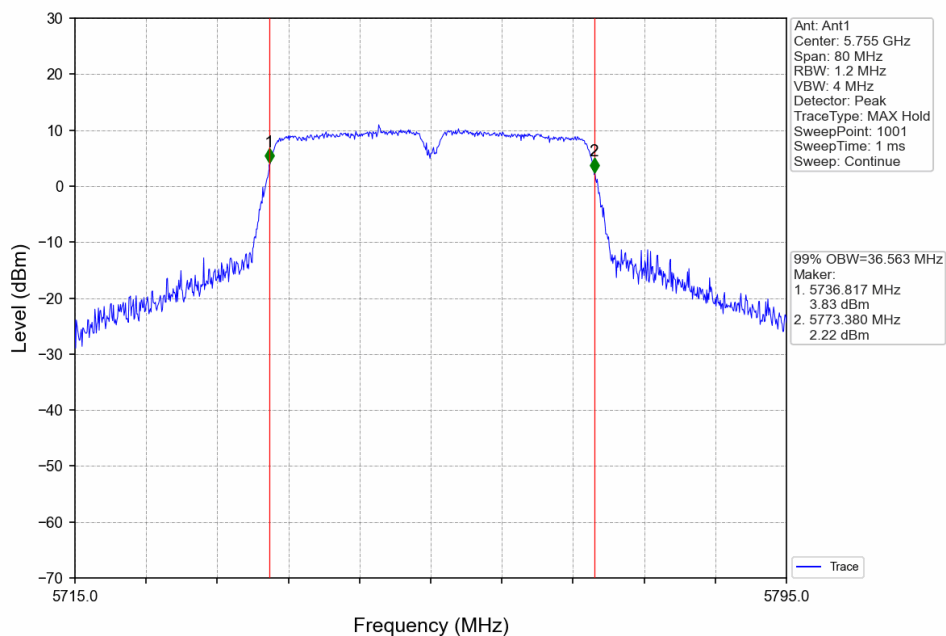
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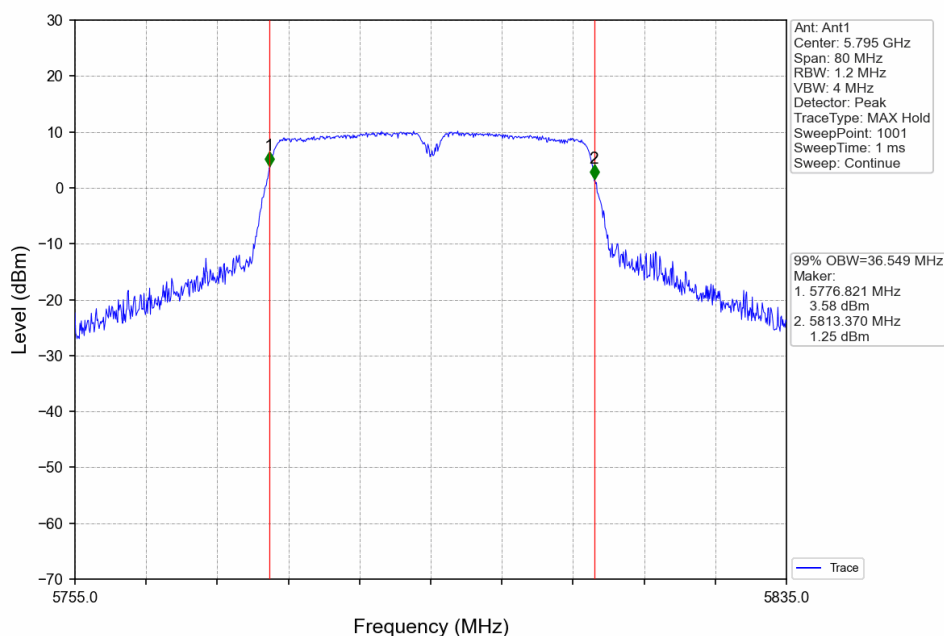
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



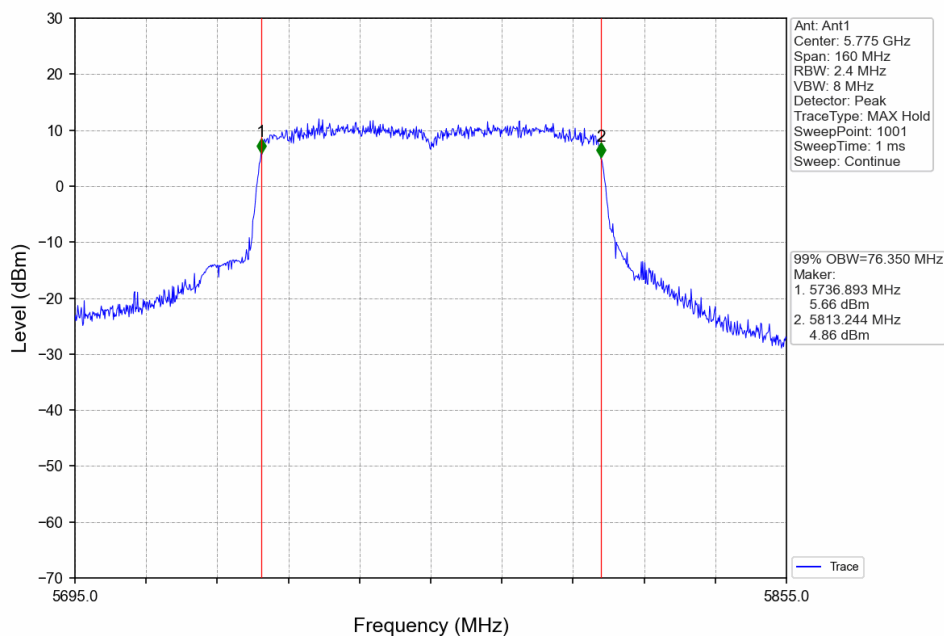
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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

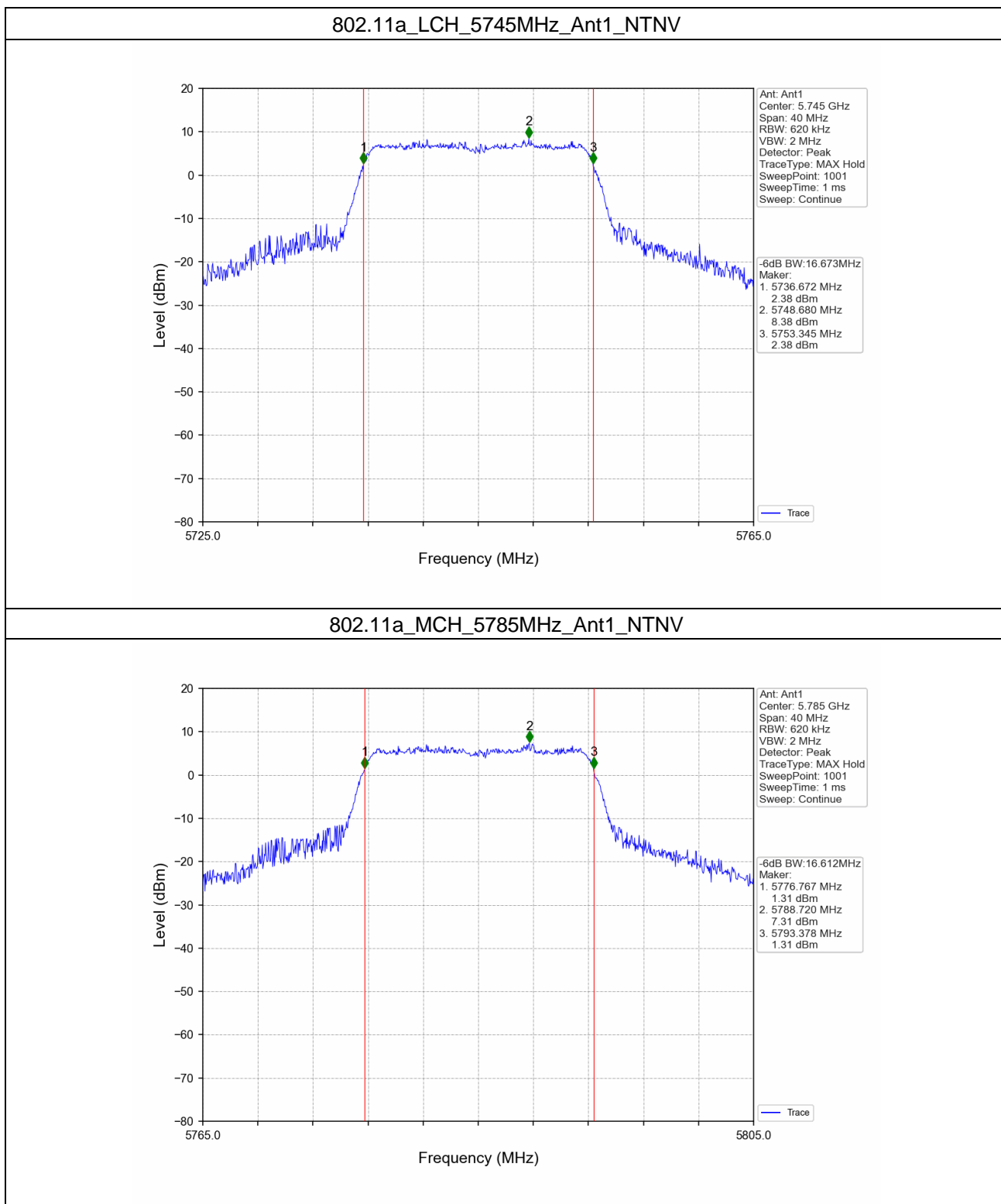


## 2.2 6dB BW

## 2.2.1 Test Result

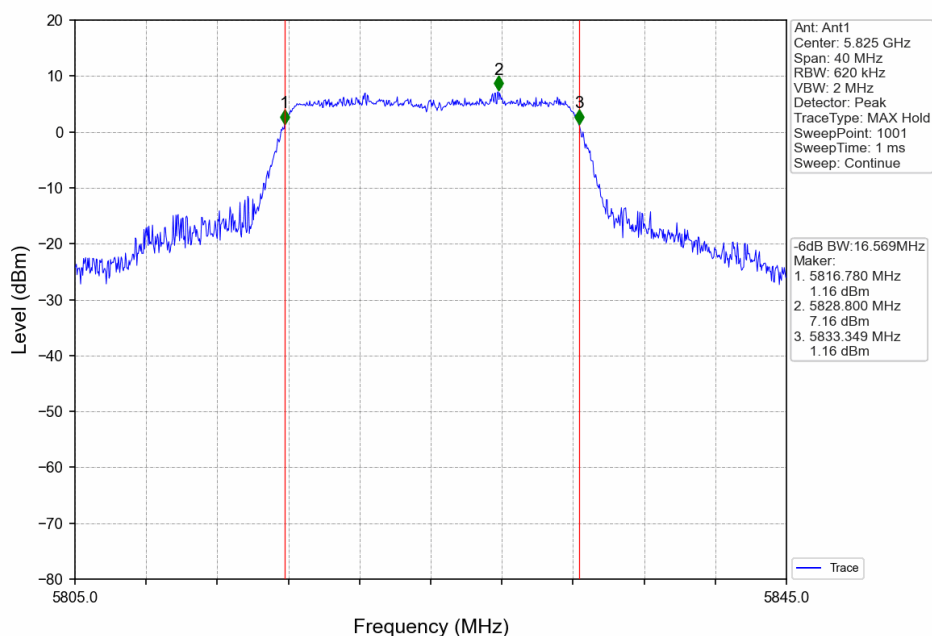
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.673	$\geq 0.5$	Pass
		5785	1	16.612	$\geq 0.5$	Pass
		5825	1	16.569	$\geq 0.5$	Pass
802.11n (HT20)	SISO	5745	1	17.708	$\geq 0.5$	Pass
		5785	1	17.695	$\geq 0.5$	Pass
		5825	1	17.726	$\geq 0.5$	Pass
802.11n (HT40)	SISO	5755	1	36.565	$\geq 0.5$	Pass
		5795	1	36.368	$\geq 0.5$	Pass
802.11ac (VHT20)	SISO	5745	1	17.596	$\geq 0.5$	Pass
		5785	1	17.576	$\geq 0.5$	Pass
		5825	1	17.708	$\geq 0.5$	Pass
802.11ac (VHT40)	SISO	5755	1	36.089	$\geq 0.5$	Pass
		5795	1	36.180	$\geq 0.5$	Pass
802.11ac (VHT80)	SISO	5775	1	76.327	$\geq 0.5$	Pass

### 2.2.2 Test Graph

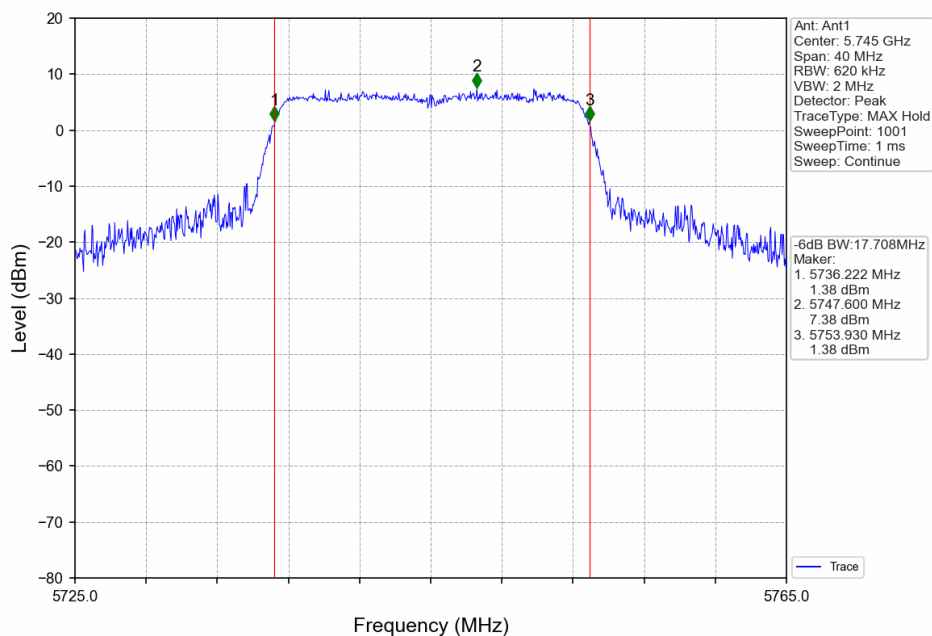




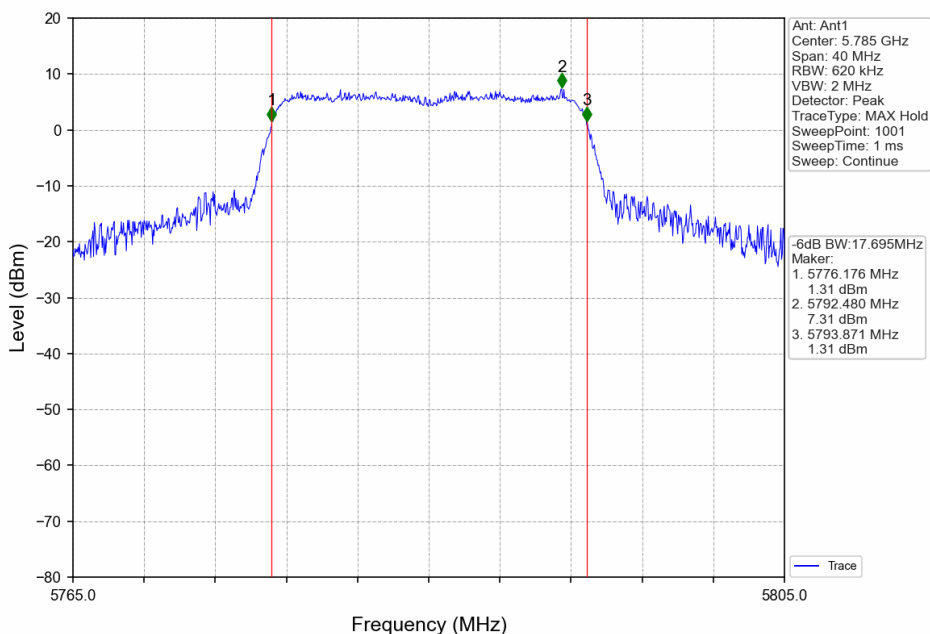
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



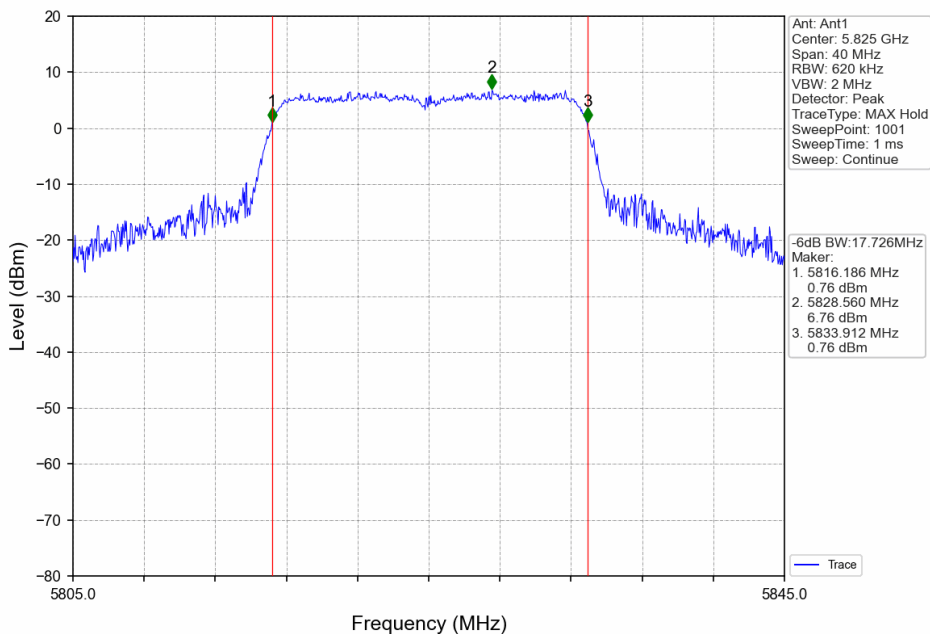
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



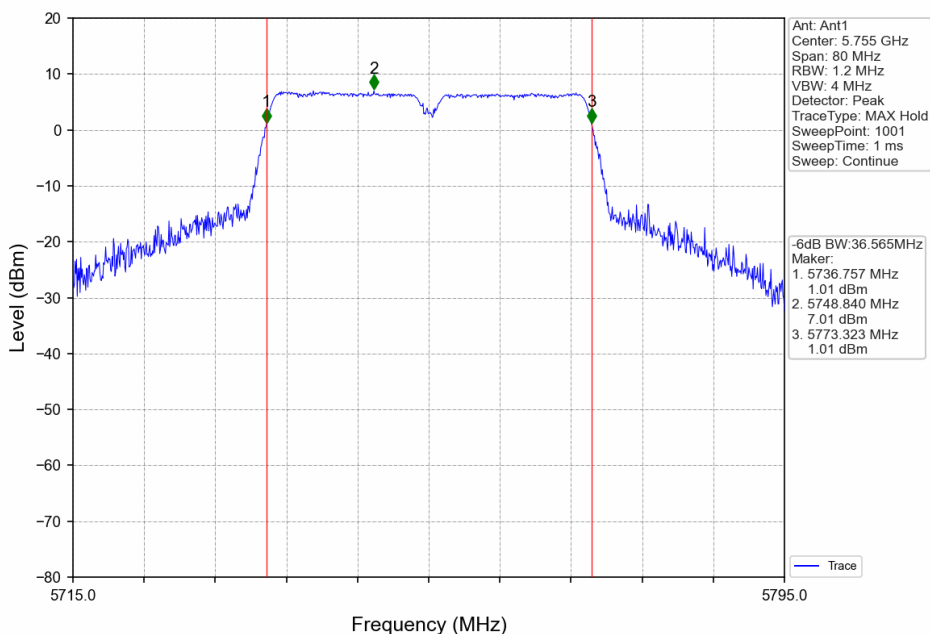
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



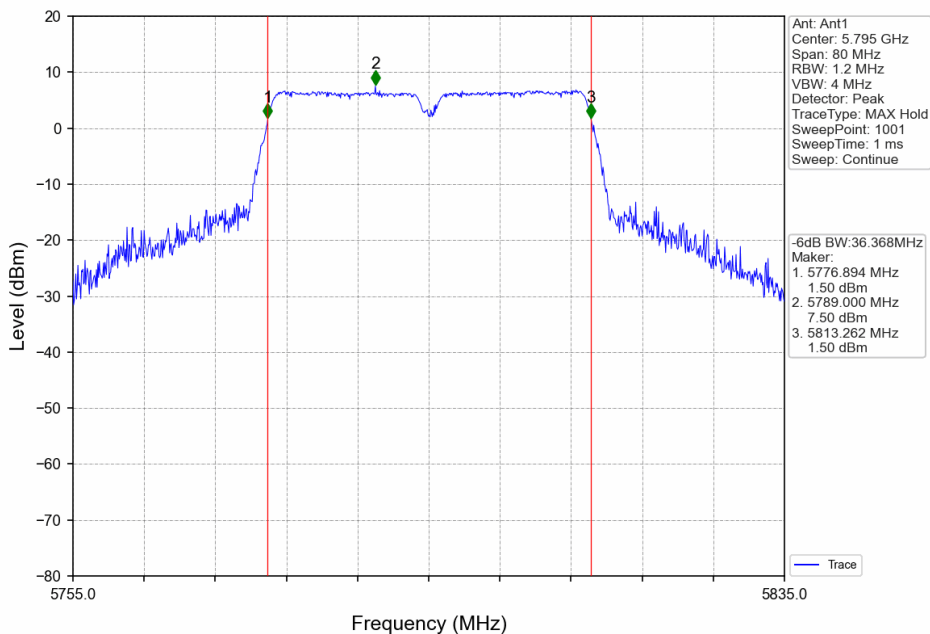
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



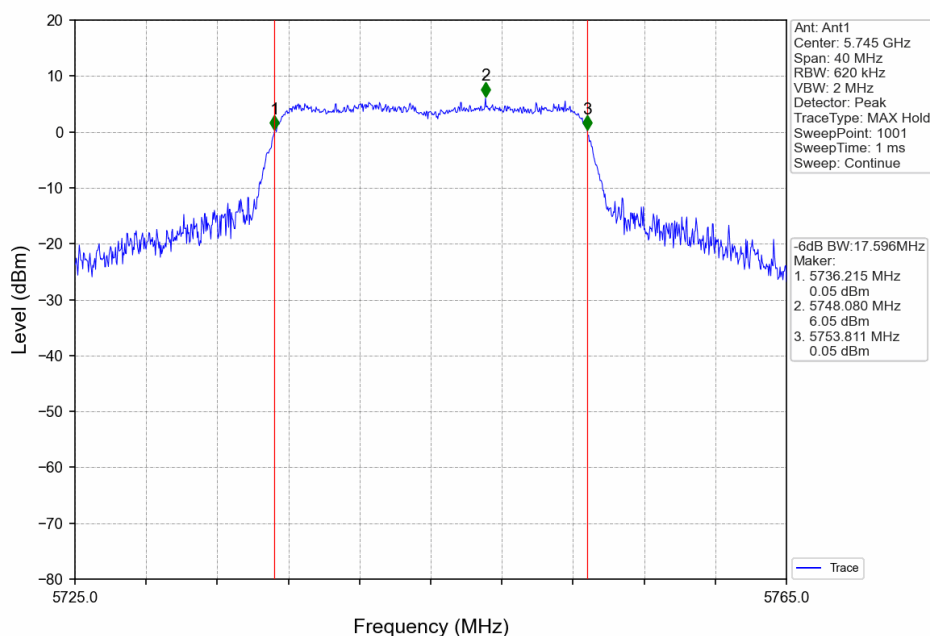
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



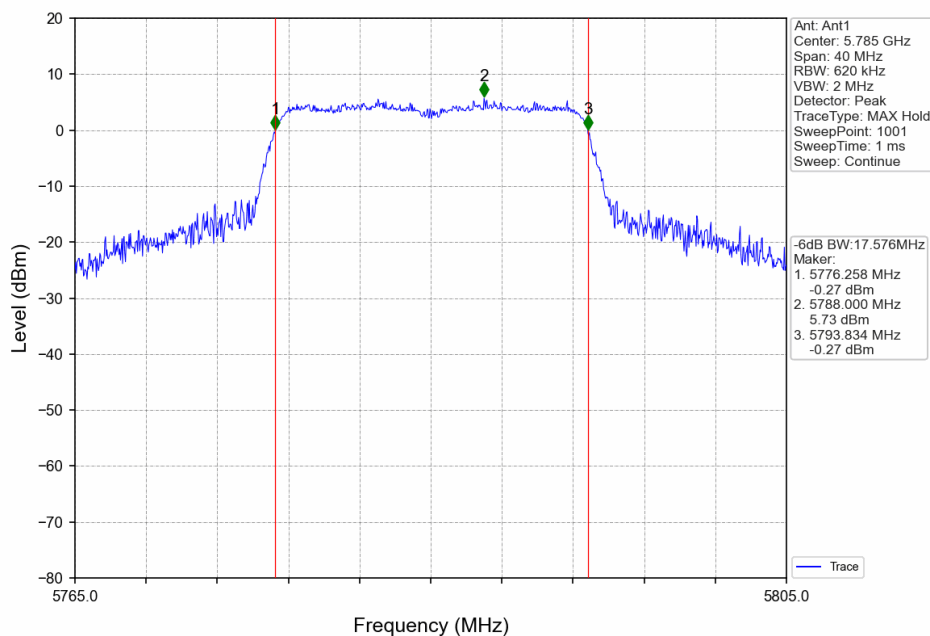
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV

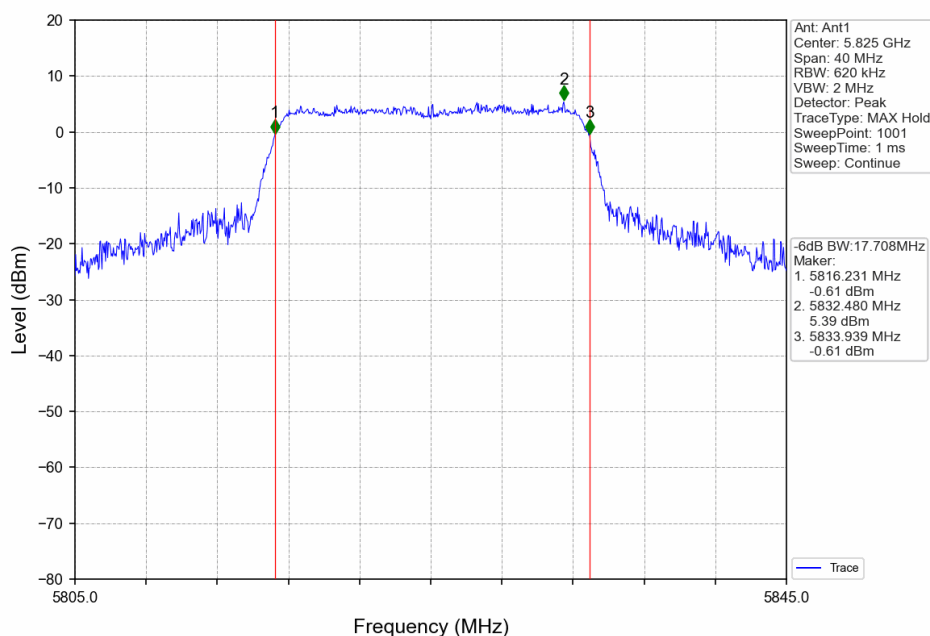


802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV

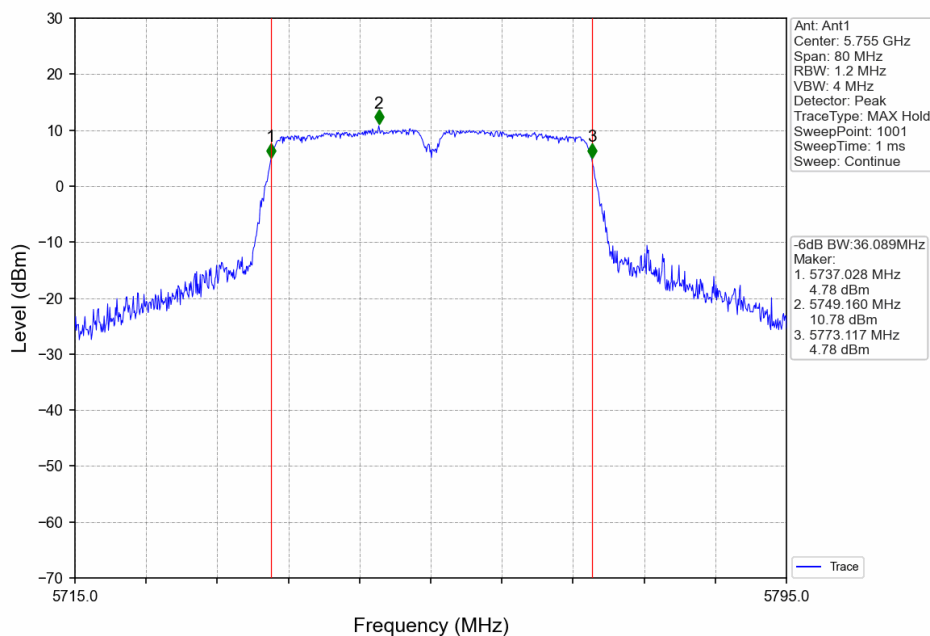




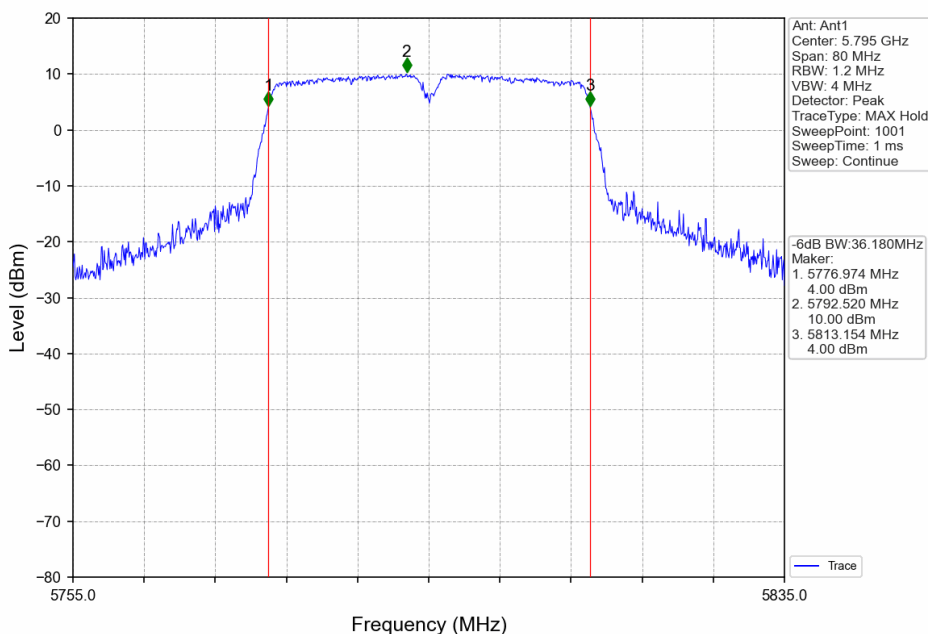
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



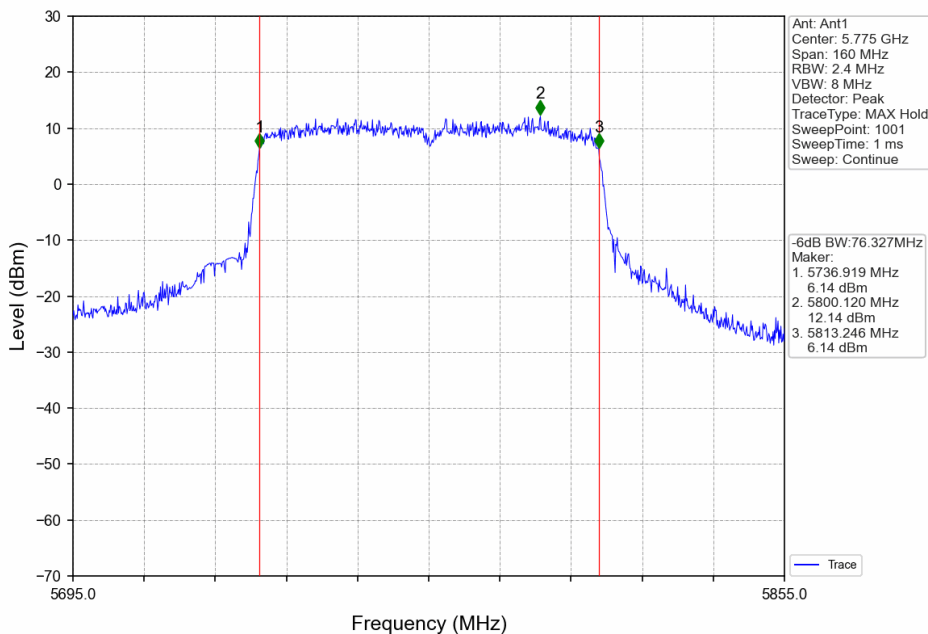
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11a	SISO	5745	12.52	<=30	Pass
		5785	12.42	<=30	Pass
		5825	12.13	<=30	Pass
802.11n (HT20)	SISO	5745	12.83	<=30	Pass
		5785	12.66	<=30	Pass
		5825	12.40	<=30	Pass
802.11n (HT40)	SISO	5755	11.80	<=30	Pass
		5795	11.67	<=30	Pass
802.11ac (VHT20)	SISO	5745	12.88	<=30	Pass
		5785	12.72	<=30	Pass
		5825	12.46	<=30	Pass
802.11ac (VHT40)	SISO	5755	11.33	<=30	Pass
		5795	11.74	<=30	Pass
802.11ac (VHT80)	SISO	5775	10.96	<=30	Pass

## 4. Maximum Power Spectral Density

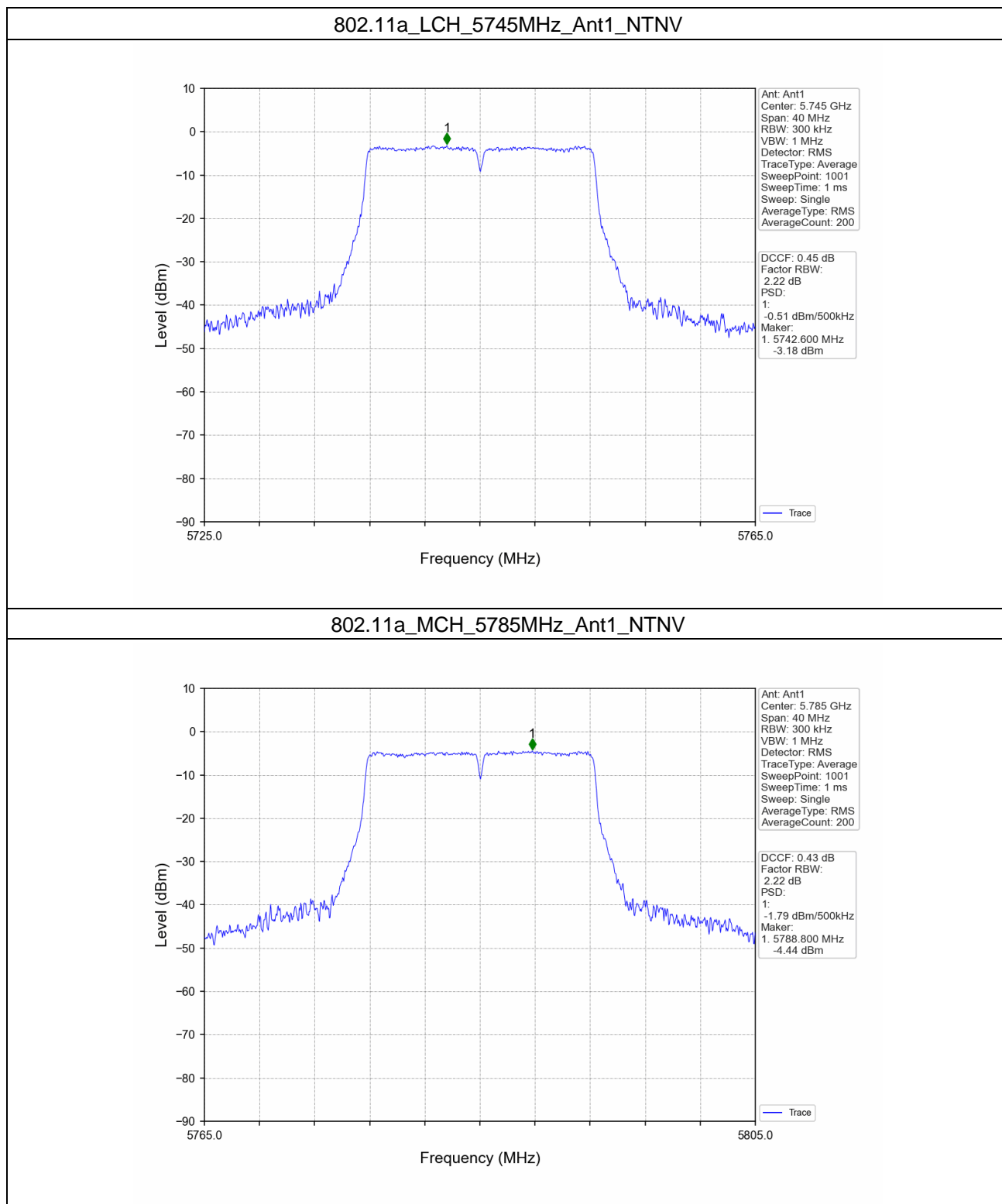
## 4.1 PSD-Band3

## 4.1.1 Test Result

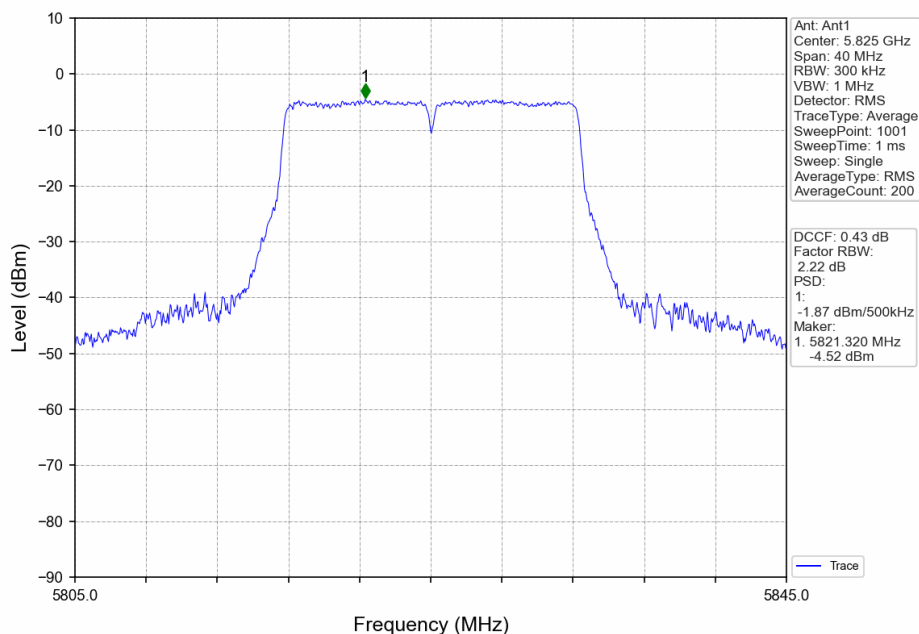
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5745	-0.51	<=30	Pass
		5785	-1.79	<=30	Pass
		5825	-1.87	<=30	Pass
802.11n (HT20)	SISO	5745	-1.23	<=30	Pass
		5785	-1.31	<=30	Pass
		5825	-1.89	<=30	Pass
802.11n (HT40)	SISO	5755	-5.42	<=30	Pass
		5795	-5.33	<=30	Pass
802.11ac (VHT20)	SISO	5745	-3.08	<=30	Pass
		5785	-3.30	<=30	Pass
		5825	-3.26	<=30	Pass
802.11ac (VHT40)	SISO	5755	-2.65	<=30	Pass
		5795	-2.37	<=30	Pass
802.11ac (VHT80)	SISO	5775	-5.29	<=30	Pass



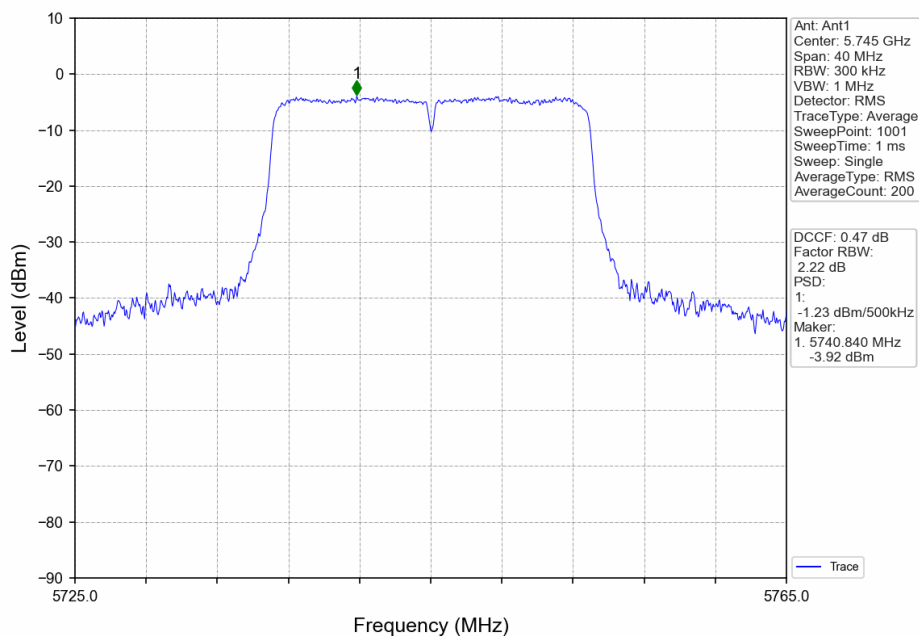
## 4.1.2 Test Graph



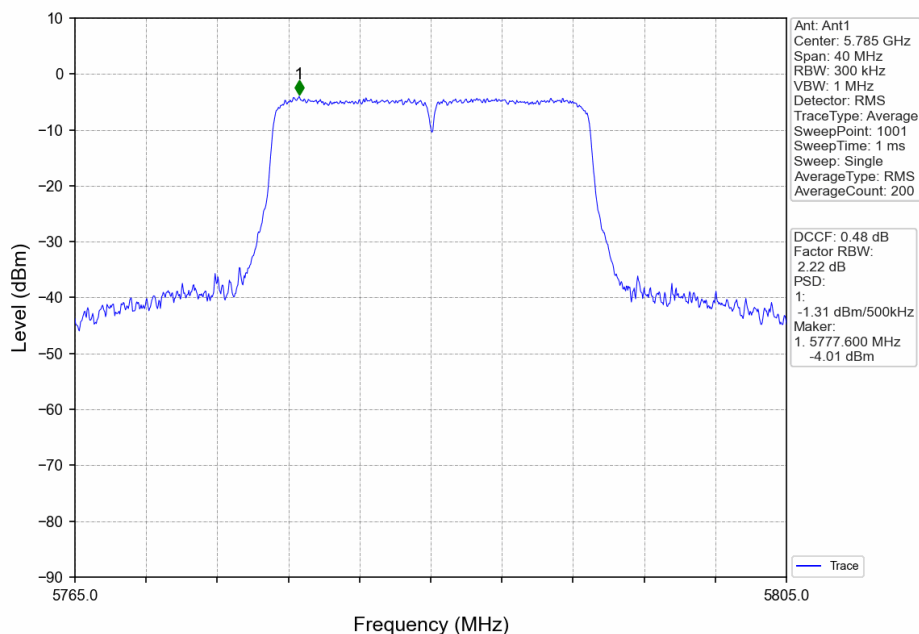
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



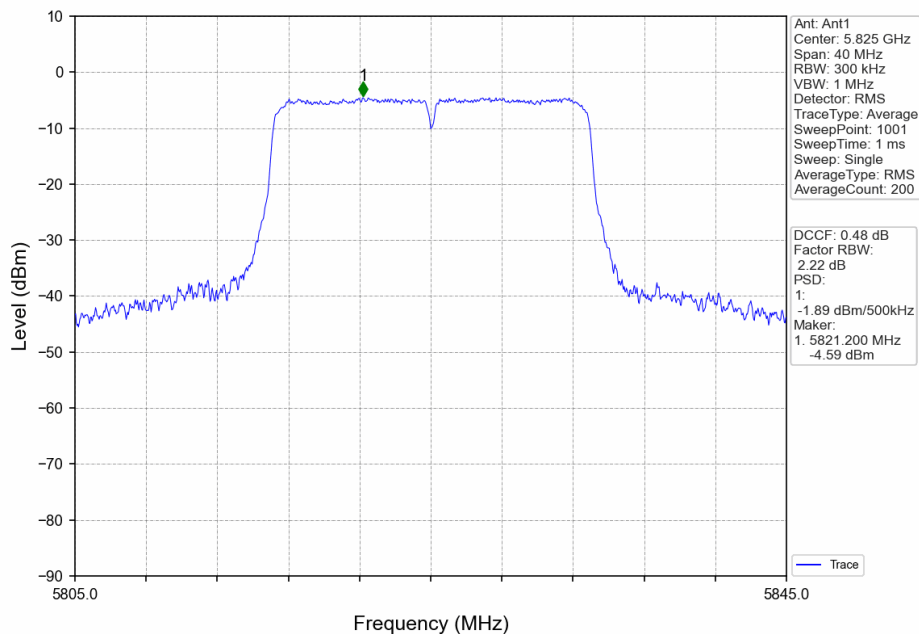
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



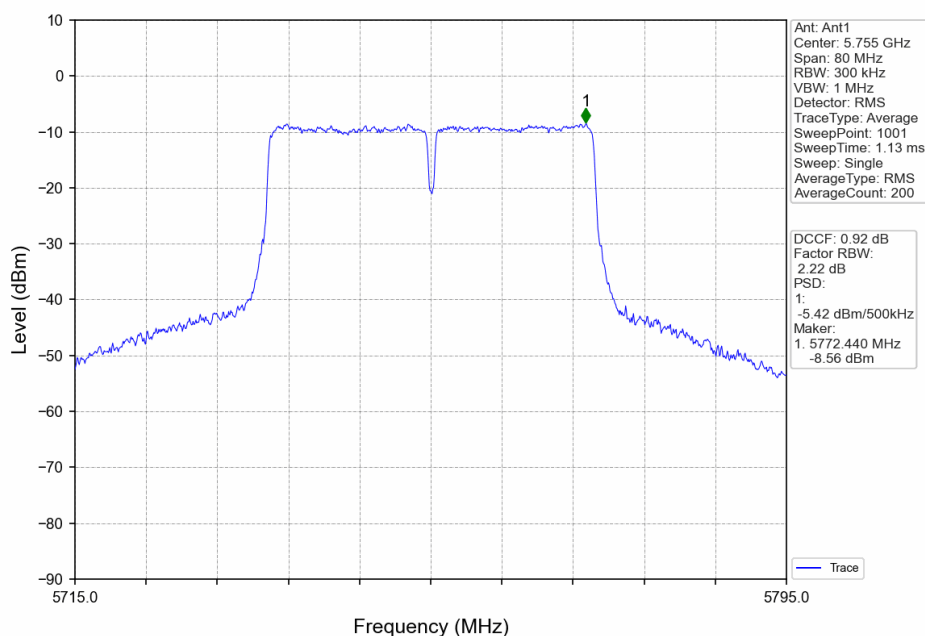
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



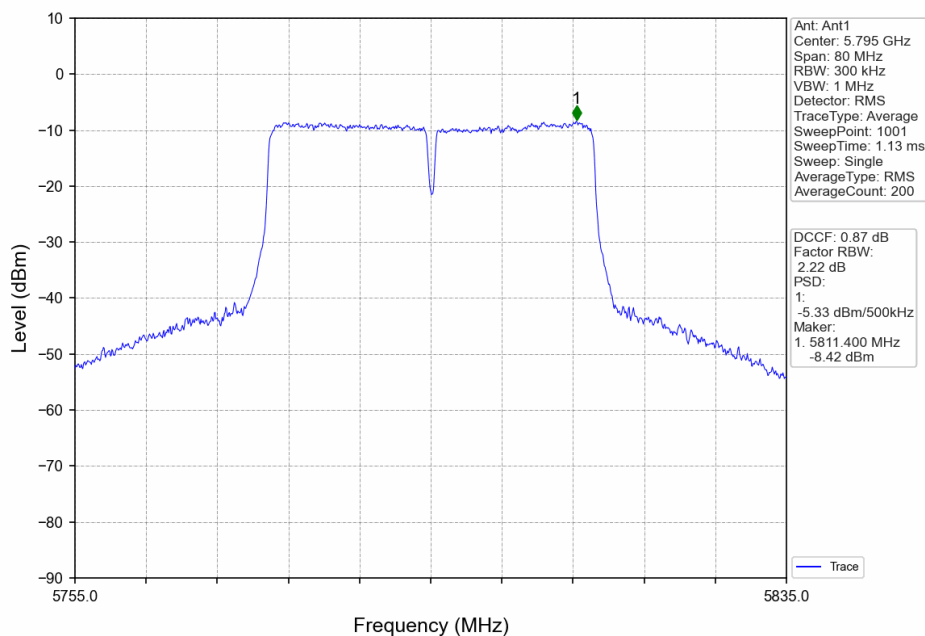
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



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

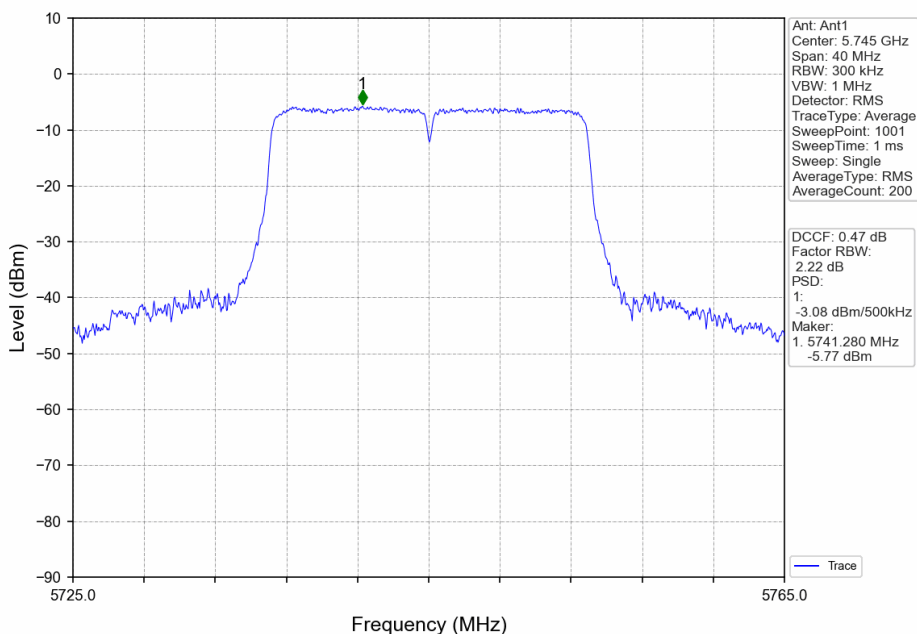


802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV

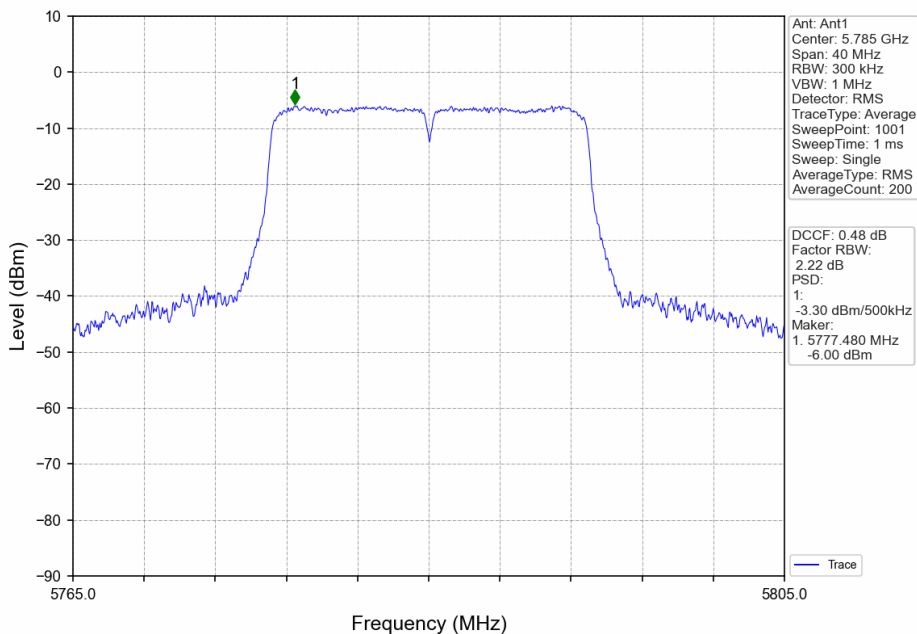




802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV

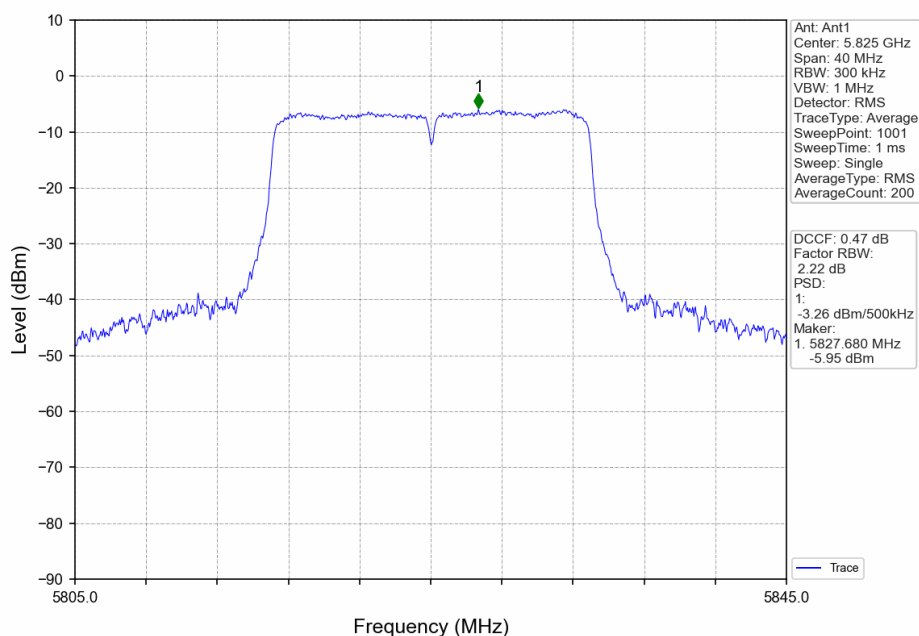


802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV

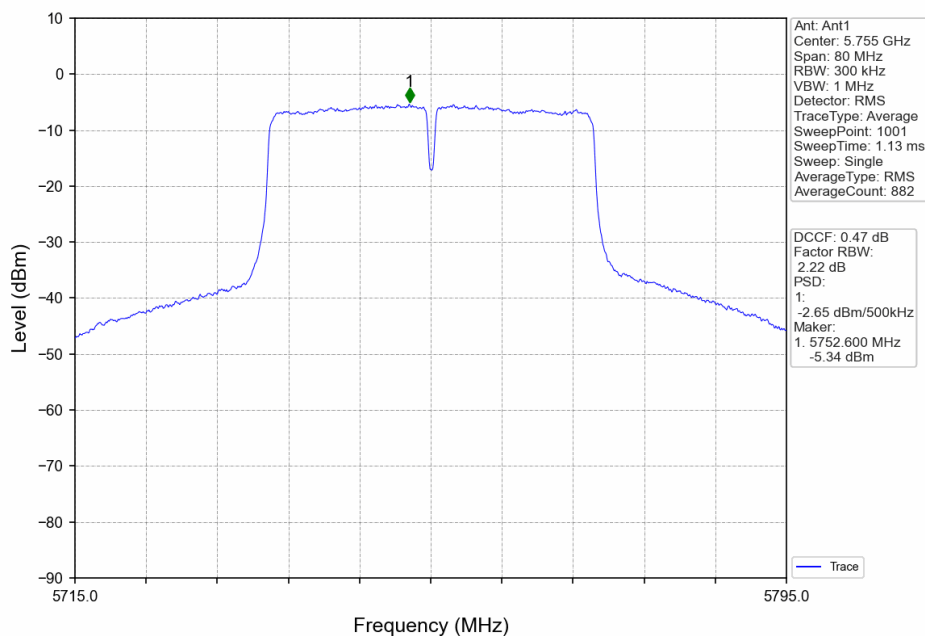


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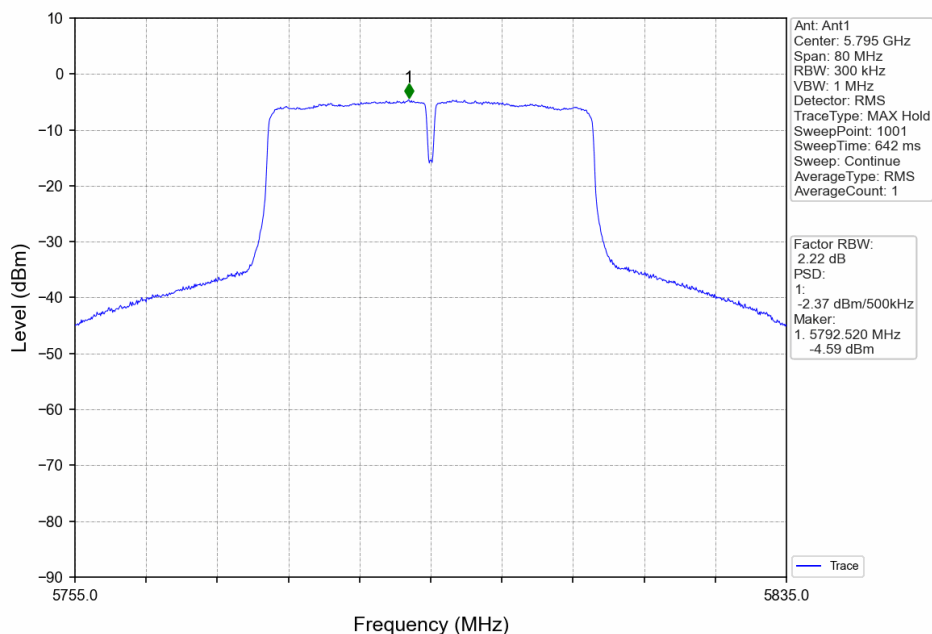
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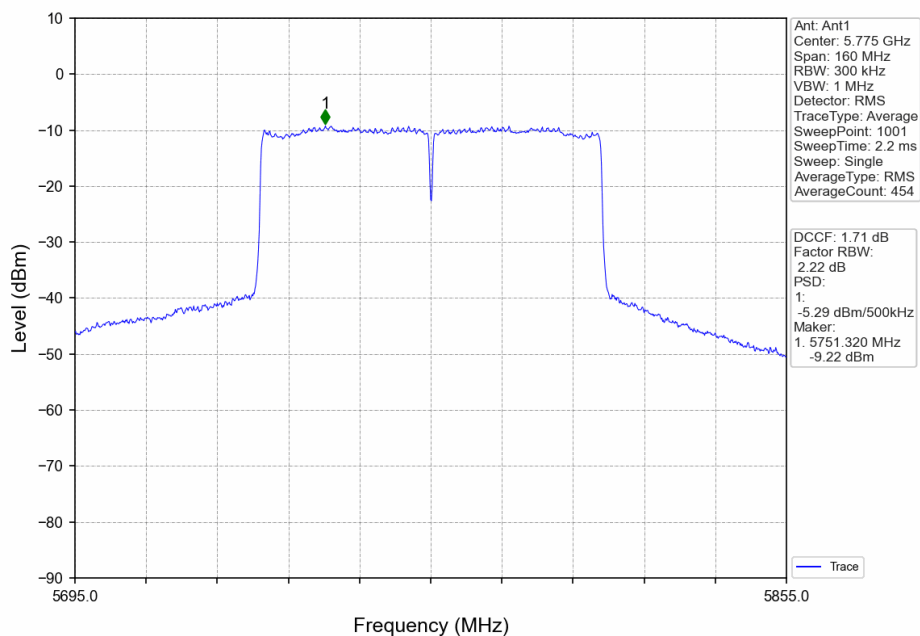
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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



- End of the Report -



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