

## 1. Bandwidth

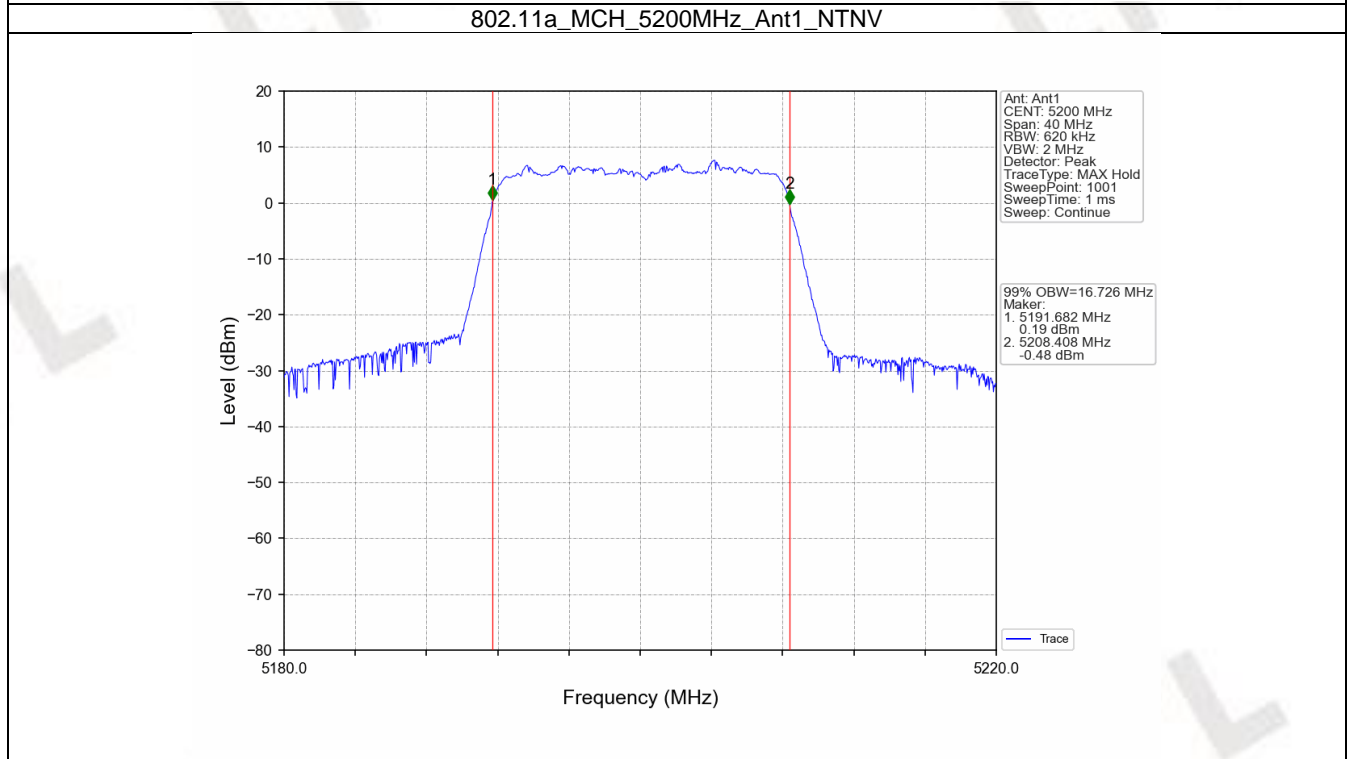
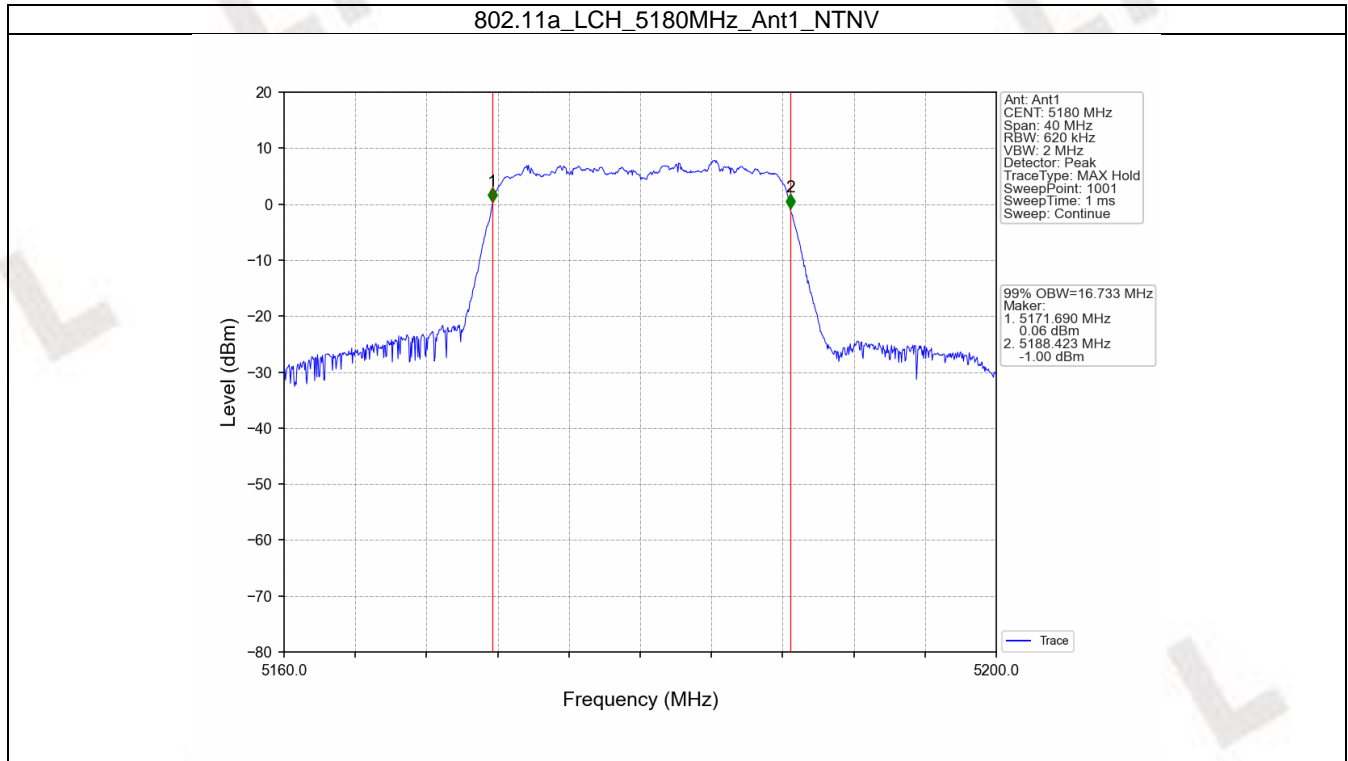
### 1.1 OBW

#### 1.1.1 Test Result

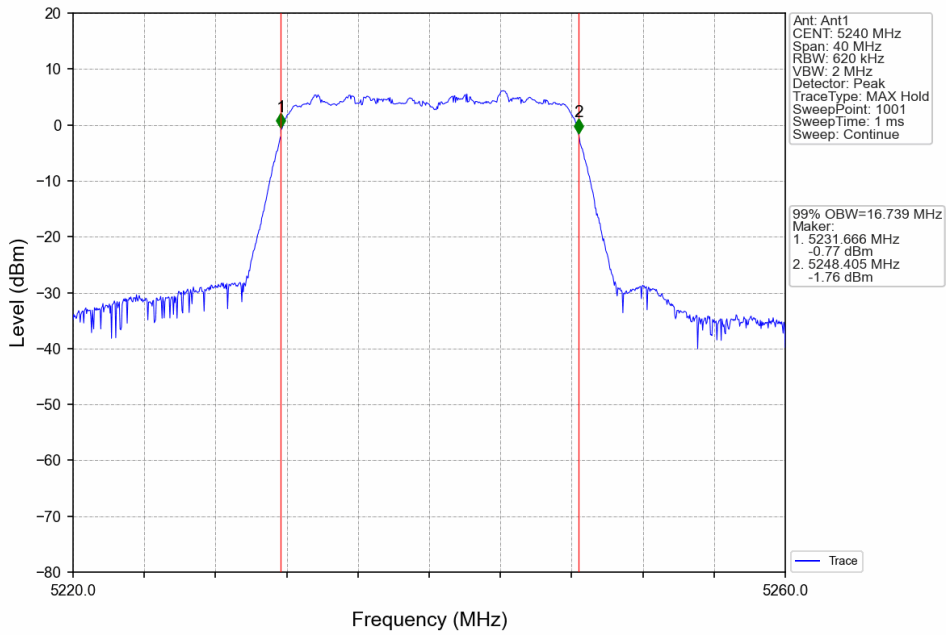
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	16.733	Pass
		5200	1	16.726	Pass
		5240	1	16.739	Pass
802.11n (HT20)	SISO	5180	1	17.825	Pass
		5200	1	17.826	Pass
		5240	1	17.837	Pass
802.11n (HT40)	SISO	5190	1	36.841	Pass
		5230	1	36.794	Pass
802.11ac (VHT20)	SISO	5180	1	17.782	Pass
		5200	1	17.806	Pass
		5240	1	17.805	Pass
802.11ac (VHT40)	SISO	5190	1	36.464	Pass
		5230	1	36.551	Pass
802.11ac (VHT80)	SISO	5210	1	76.173	Pass

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	2	16.683	Pass
		5200	2	16.699	Pass
		5240	2	16.692	Pass
802.11n (HT20)	SISO	5180	2	17.802	Pass
		5200	2	17.809	Pass
		5240	2	17.806	Pass
802.11n (HT40)	SISO	5190	2	36.638	Pass
		5230	2	36.590	Pass
802.11ac (VHT20)	SISO	5180	2	17.767	Pass
		5200	2	17.769	Pass
		5240	2	17.766	Pass
802.11ac (VHT40)	SISO	5190	2	36.433	Pass
		5230	2	36.412	Pass
802.11ac (VHT80)	SISO	5210	2	75.675	Pass

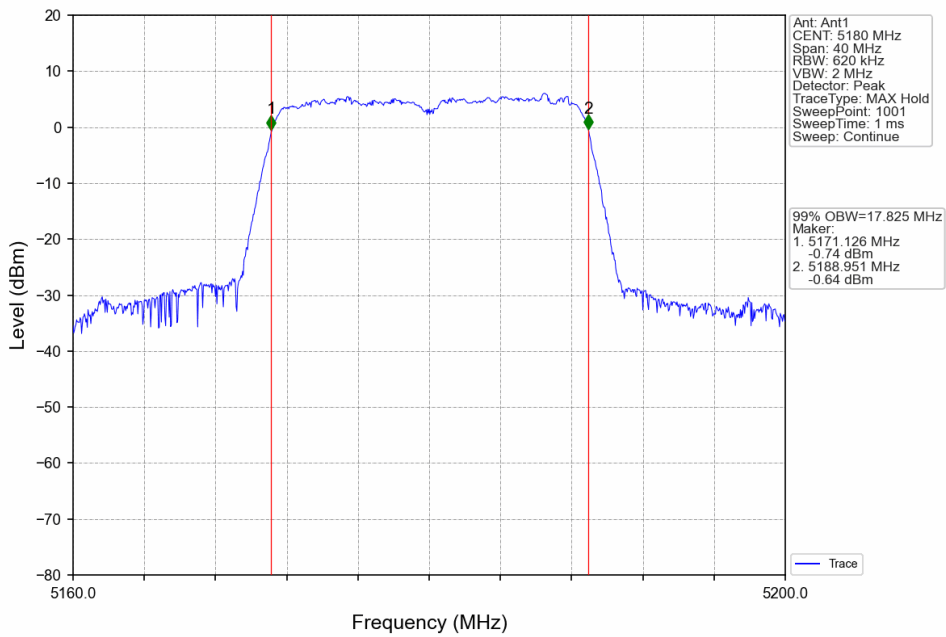
1.1.2 Test Graph



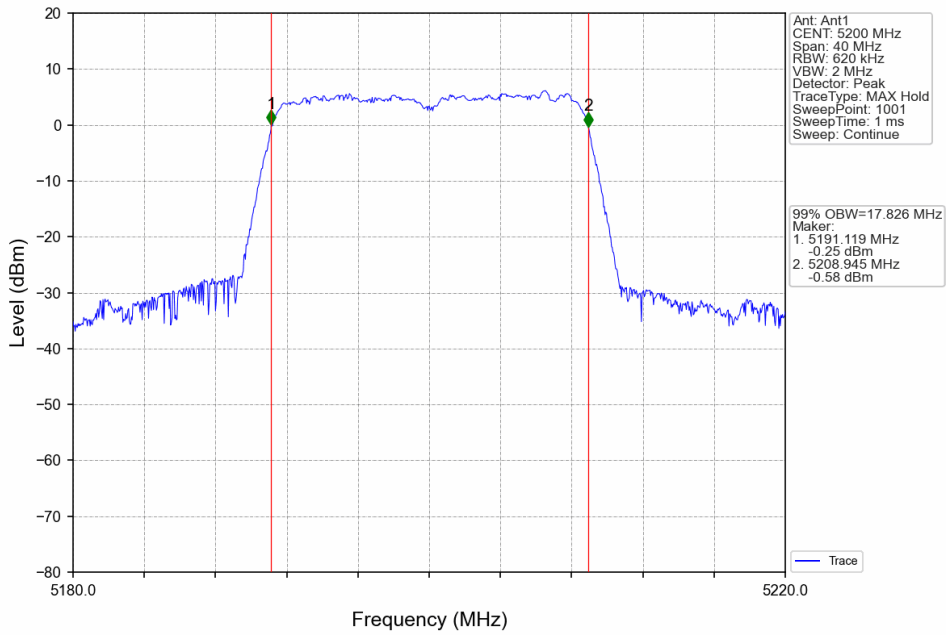
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



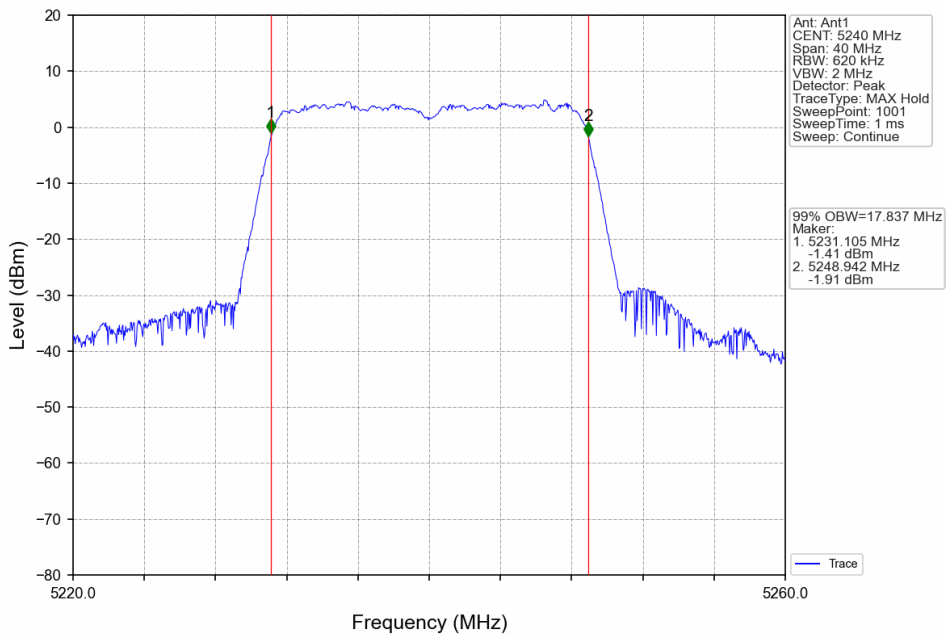
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



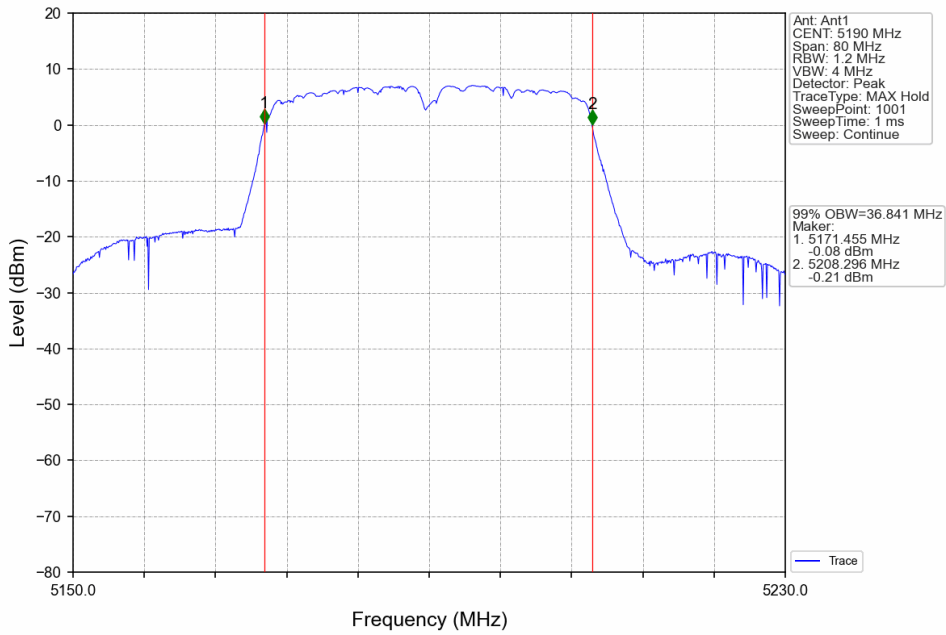
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



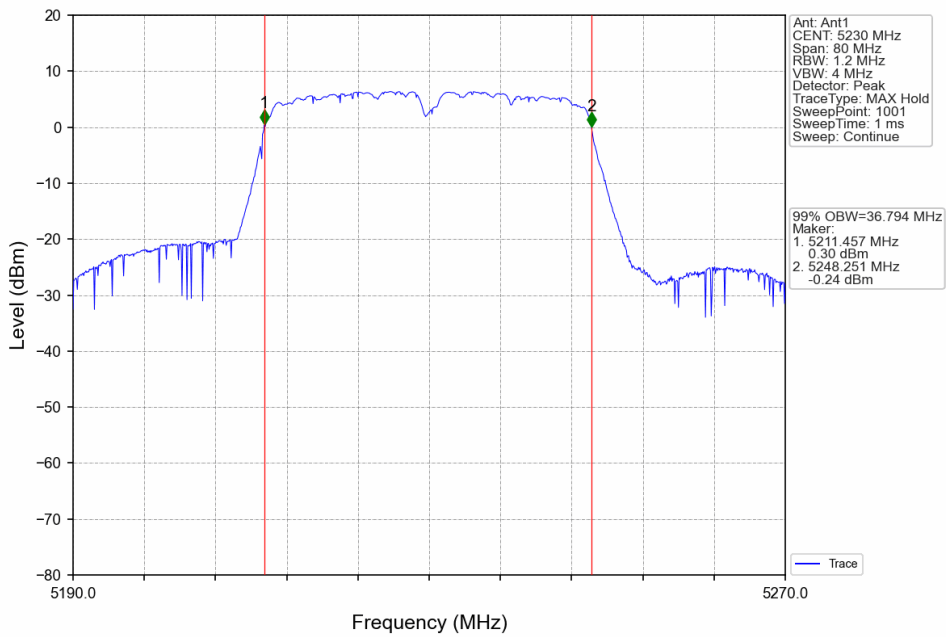
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



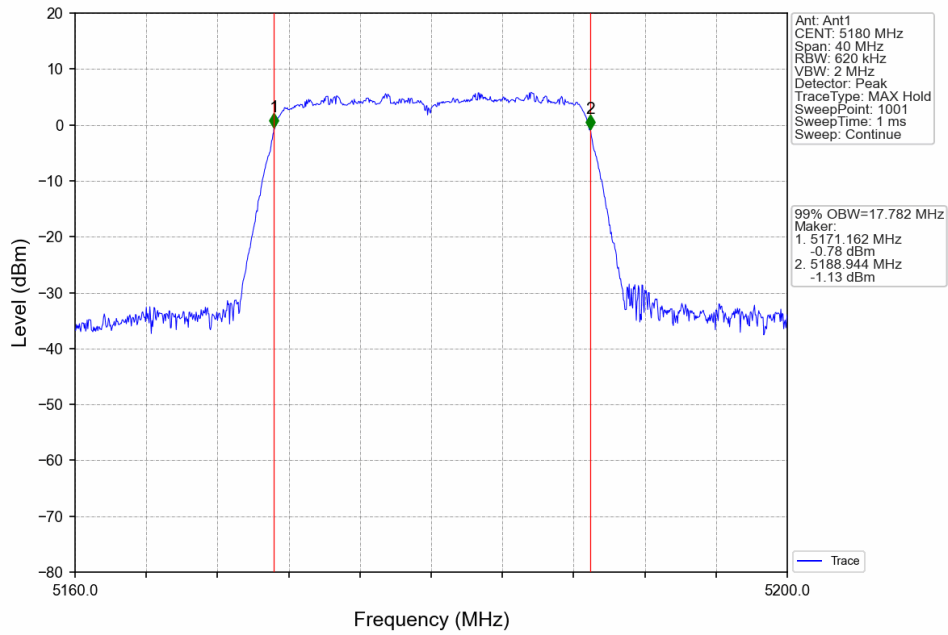
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



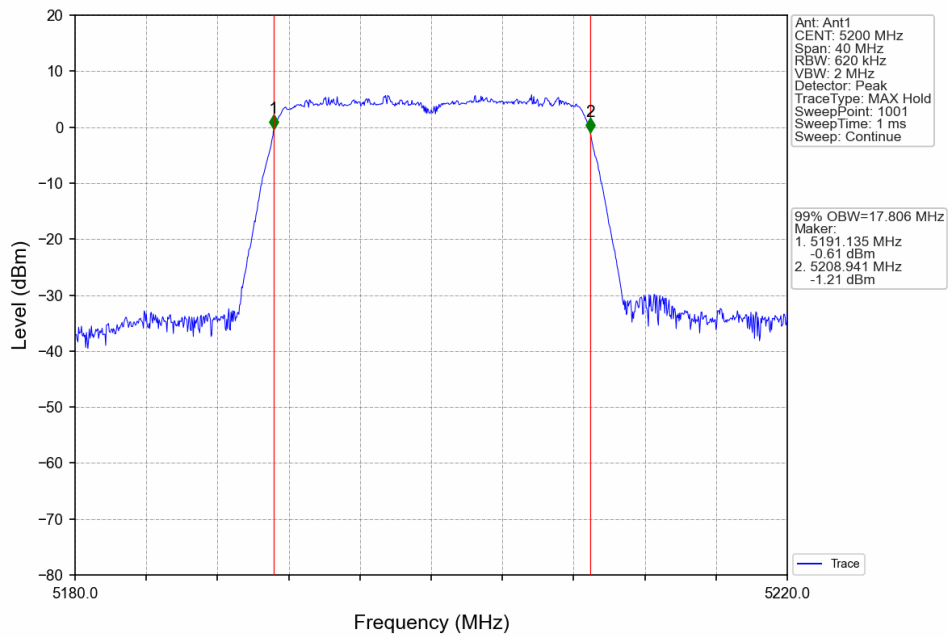
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



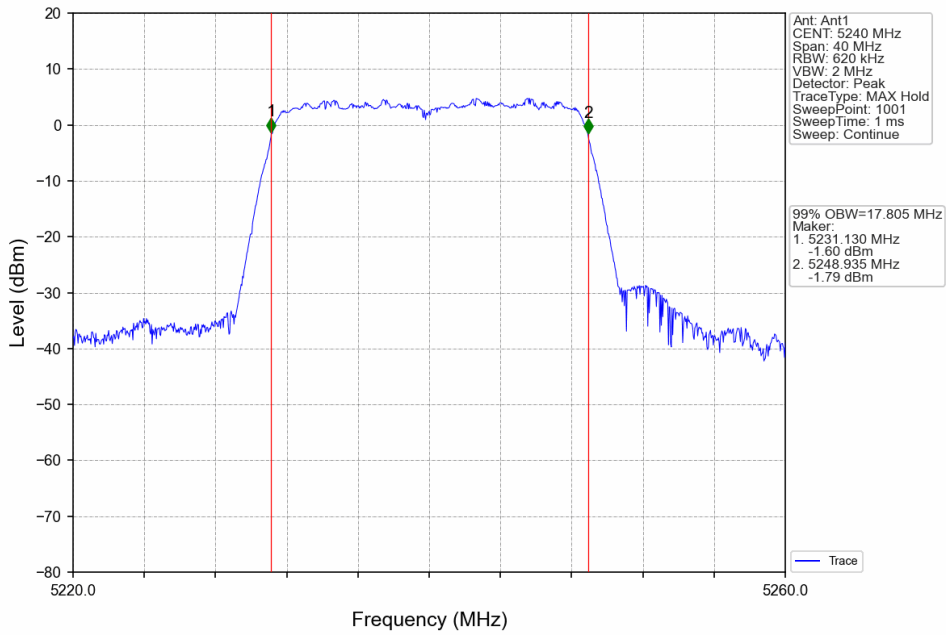
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



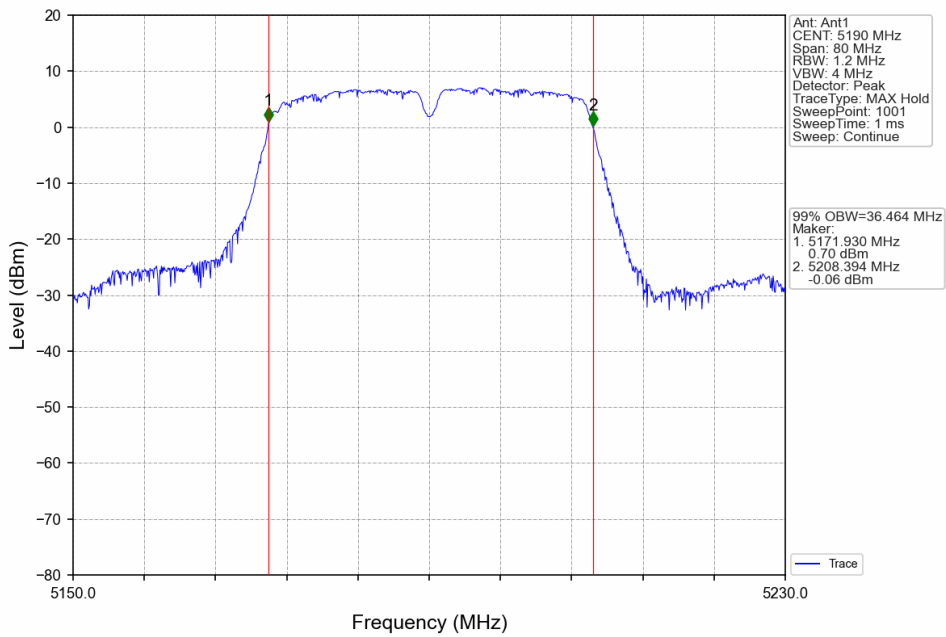
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



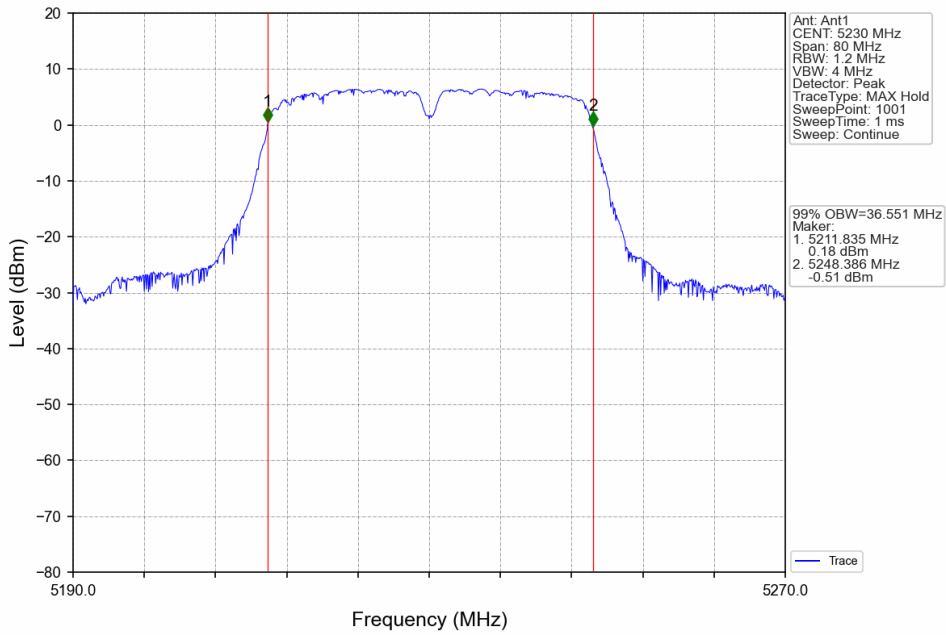
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



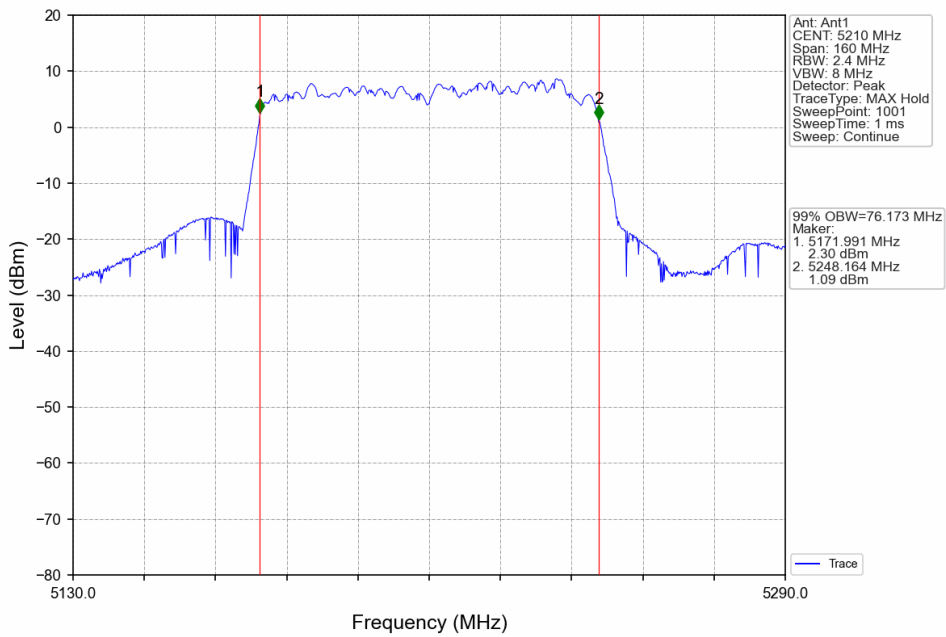
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



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

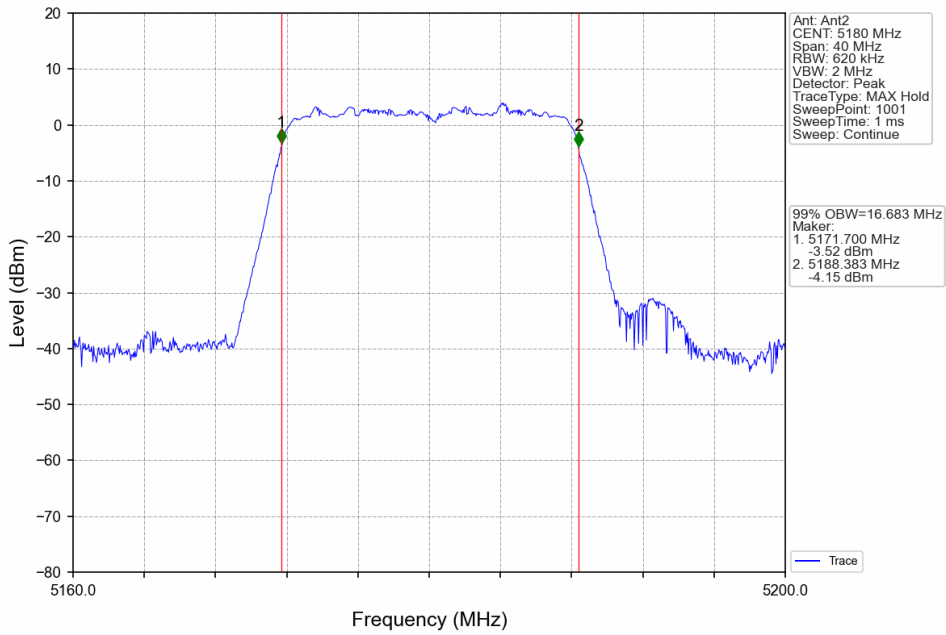


802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV

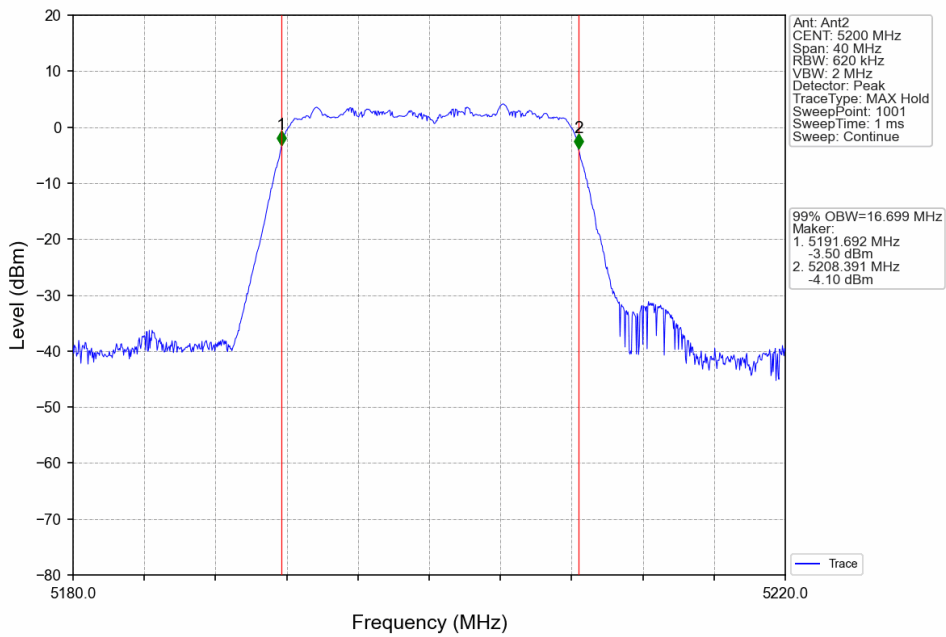




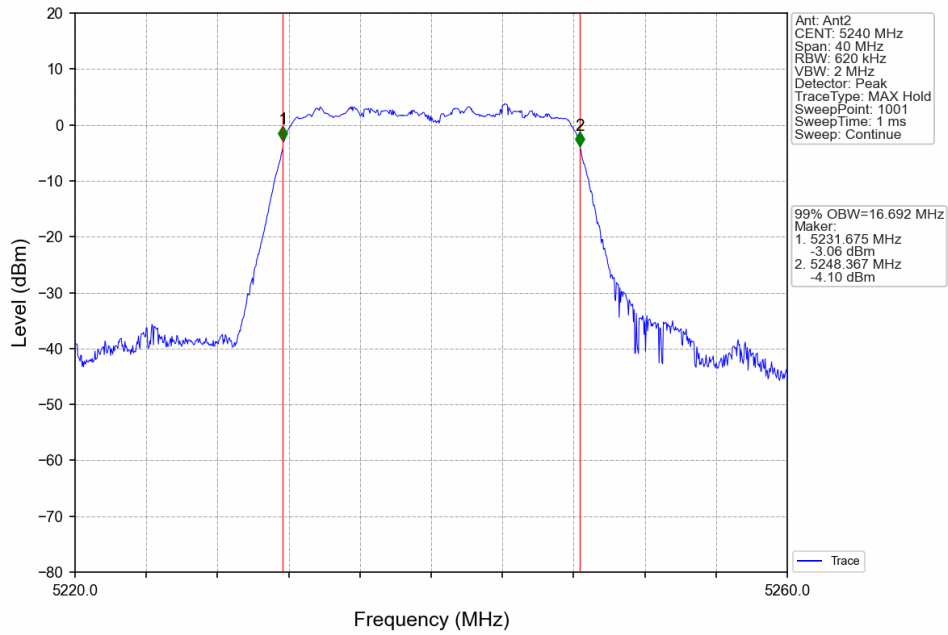
802.11a\_LCH\_5180MHz\_Ant2\_NTNV



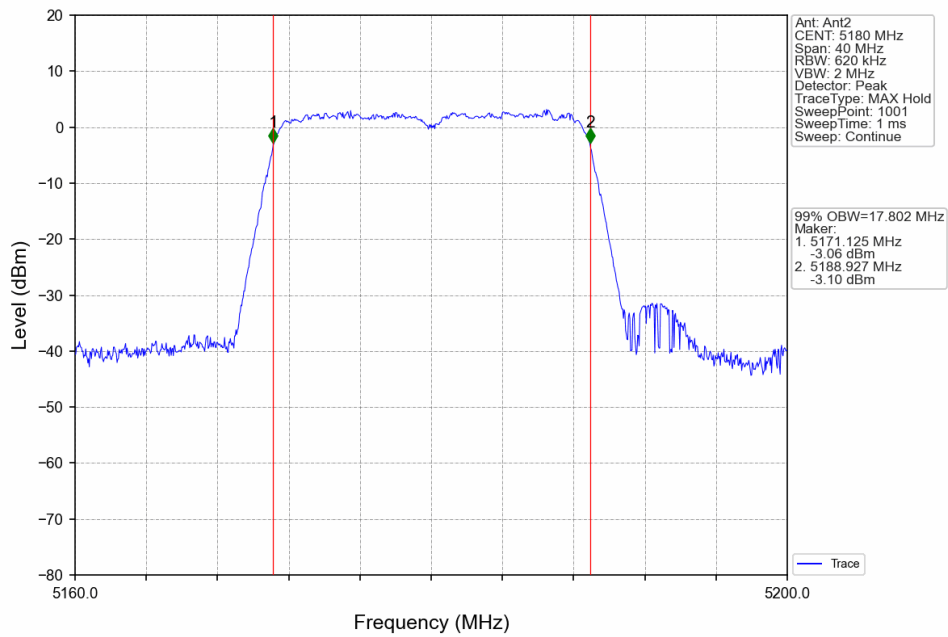
802.11a\_MCH\_5200MHz\_Ant2\_NTNV



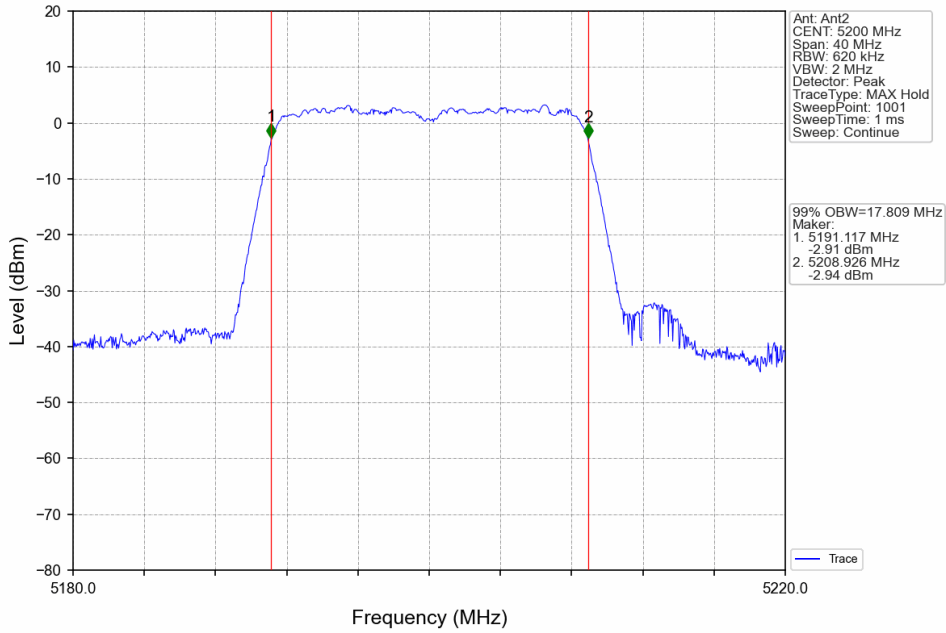
802.11a\_HCH\_5240MHz\_Ant2\_NTNV



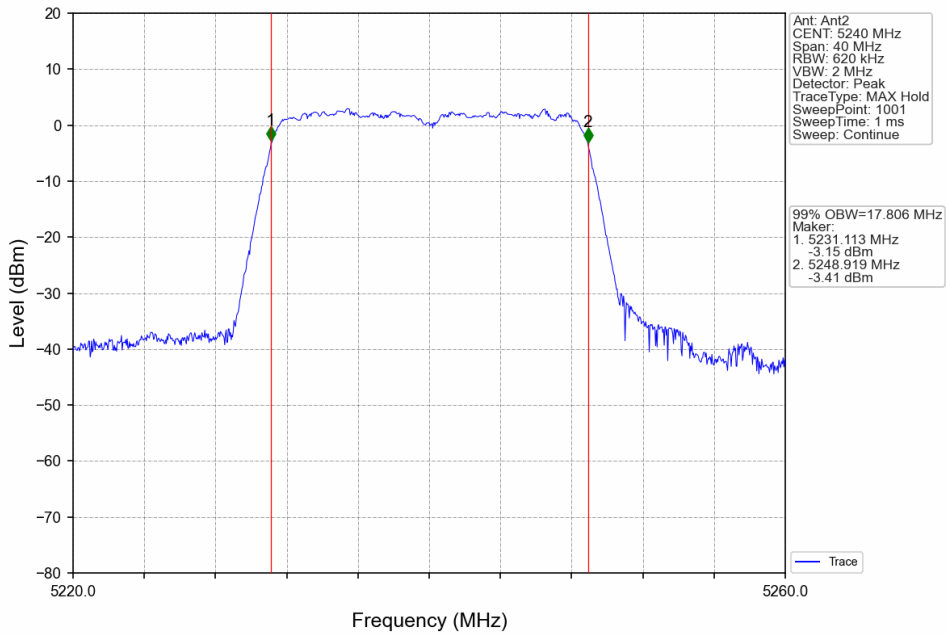
802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



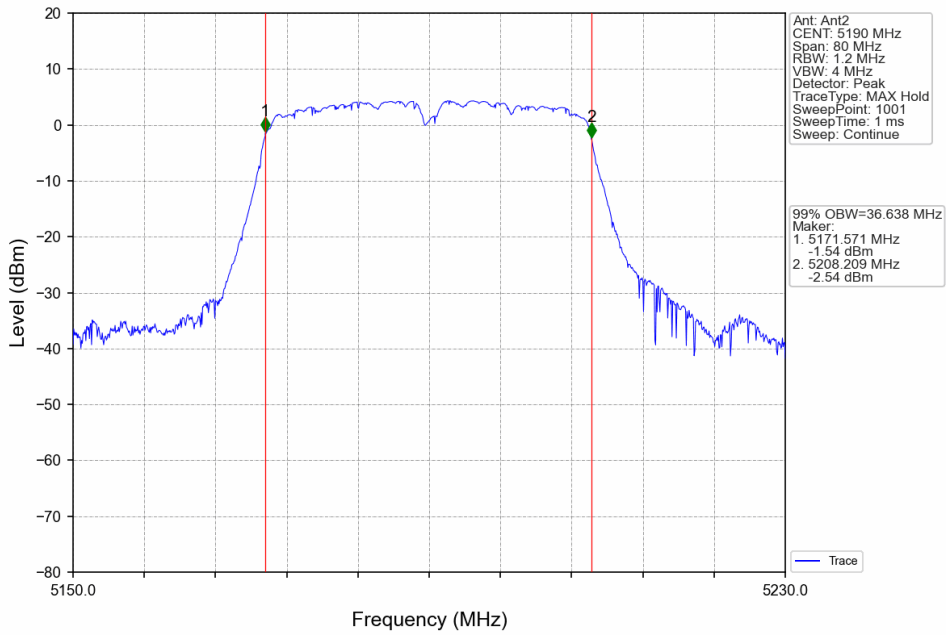
802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



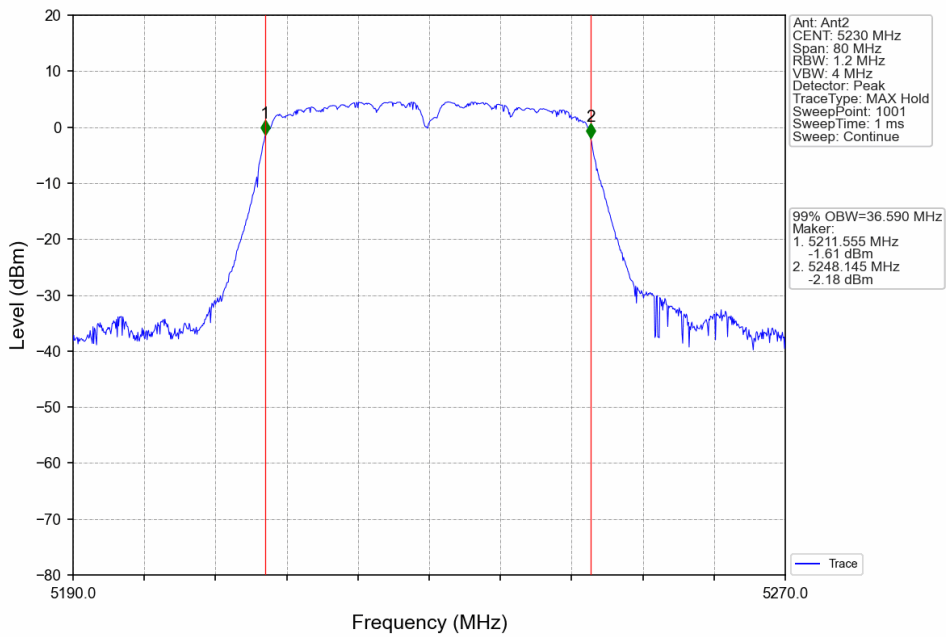
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



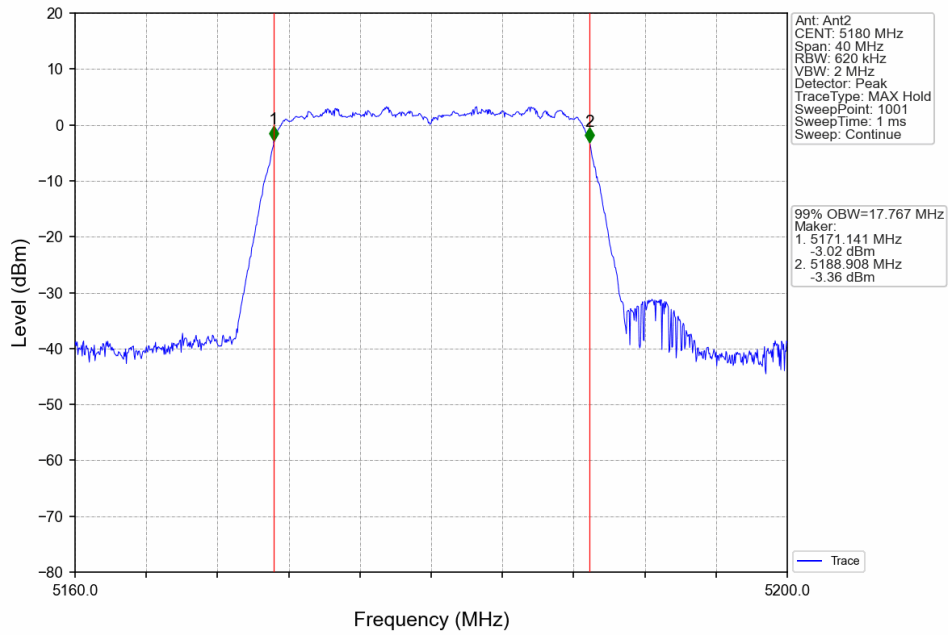
802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



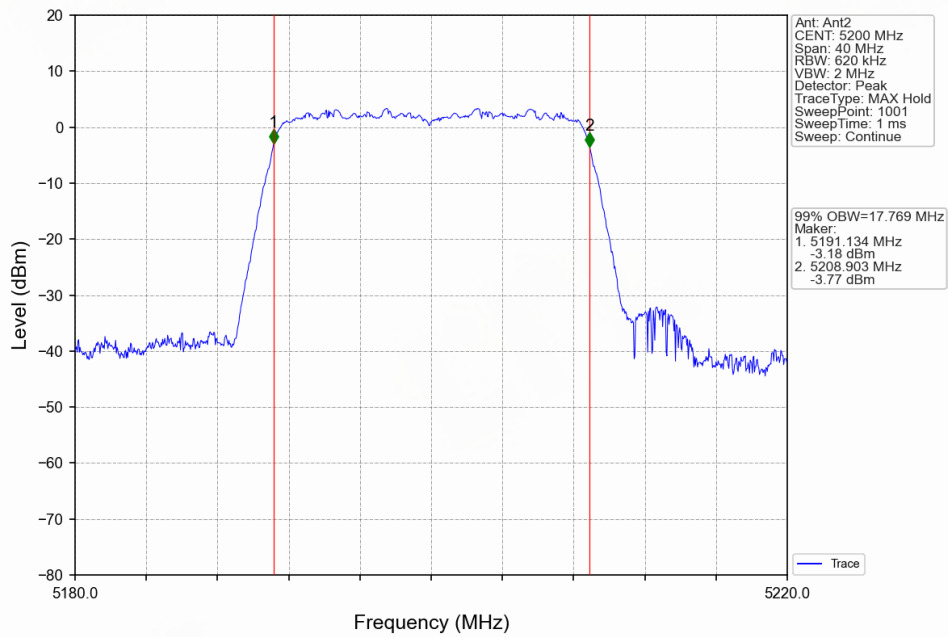
802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



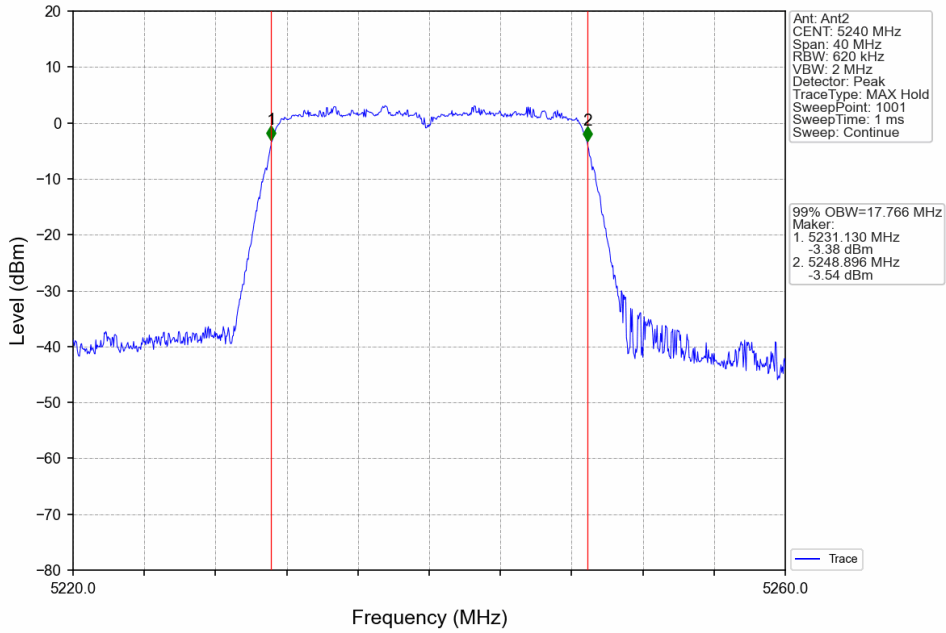
802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV



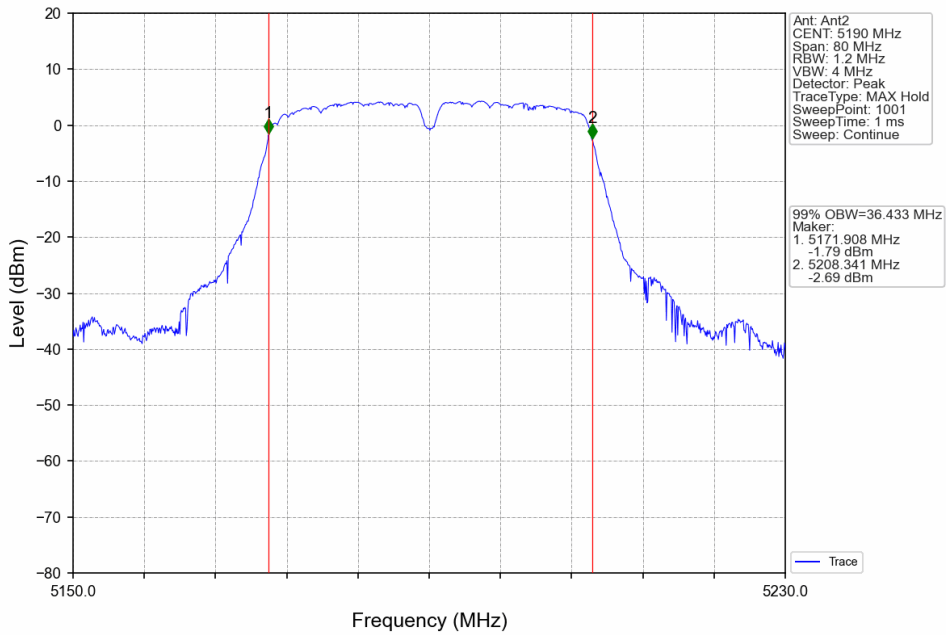
802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



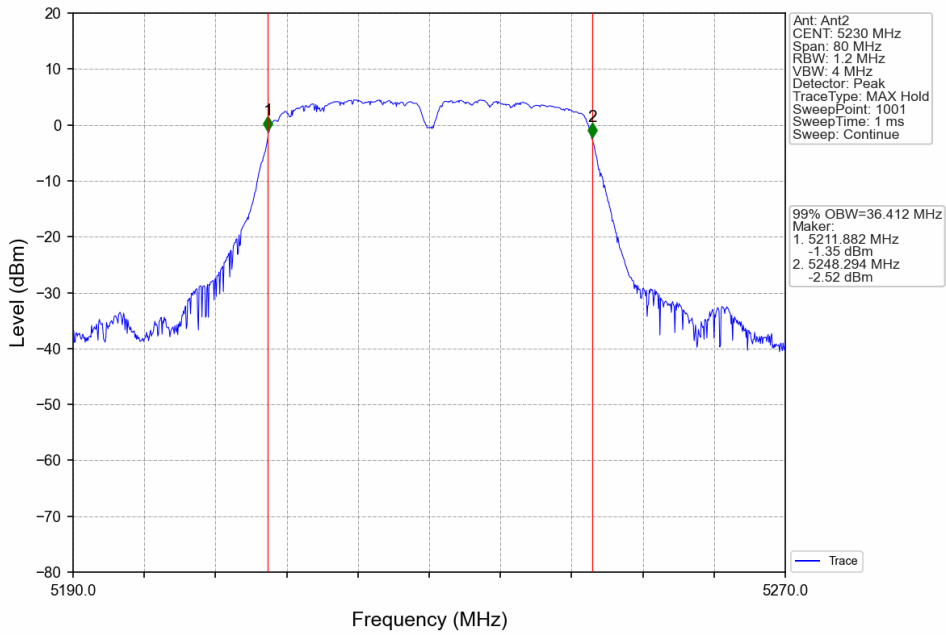
802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



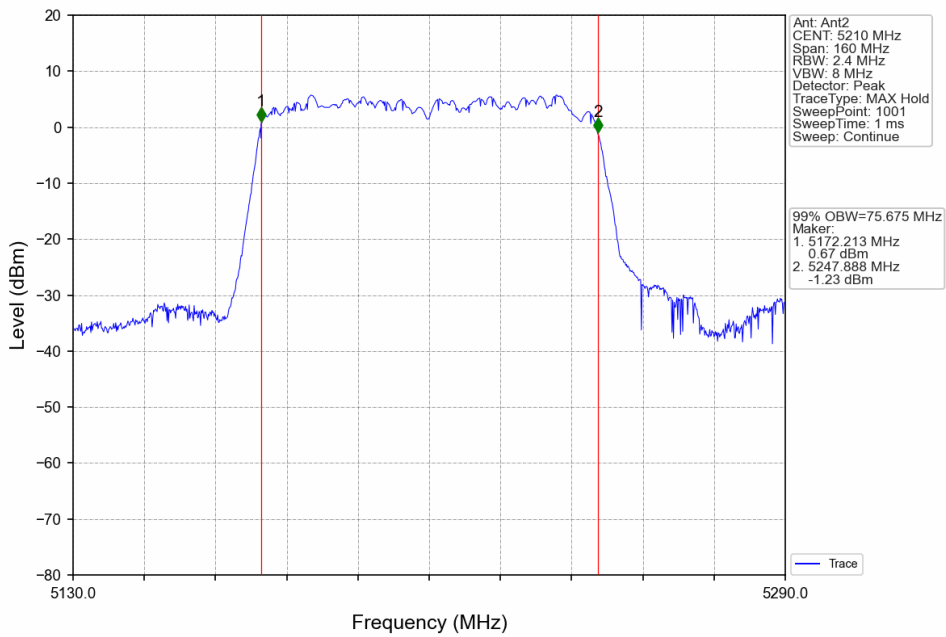
802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV



## 1.2 26dB BW

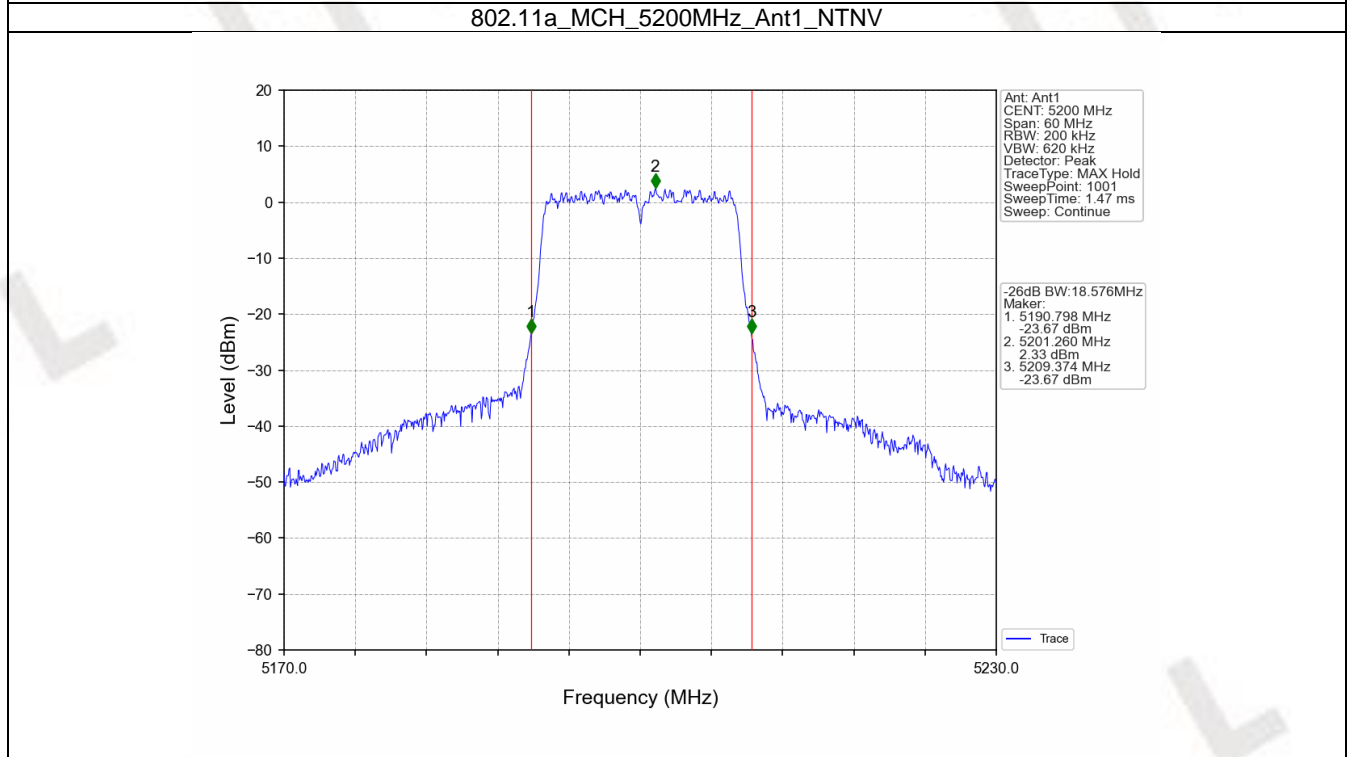
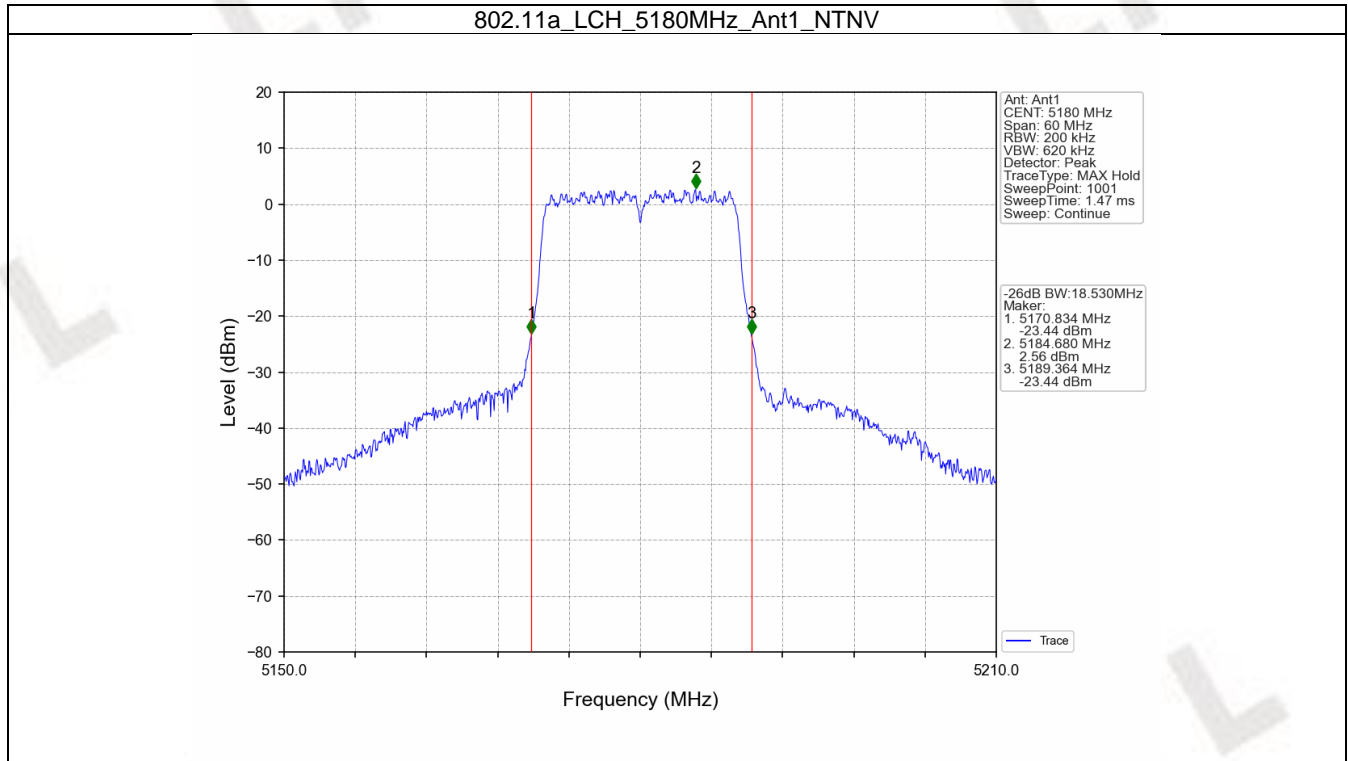
## 1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	18.530	Pass
		5200	1	18.576	Pass
		5240	1	18.567	Pass
802.11n (HT20)	SISO	5180	1	19.451	Pass
		5200	1	19.477	Pass
		5240	1	19.492	Pass
802.11n (HT40)	SISO	5190	1	41.326	Pass
		5230	1	41.600	Pass
802.11ac (VHT20)	SISO	5180	1	19.454	Pass
		5200	1	19.451	Pass
		5240	1	19.468	Pass
802.11ac (VHT40)	SISO	5190	1	41.486	Pass
		5230	1	41.423	Pass
802.11ac (VHT80)	SISO	5210	1	82.200	Pass

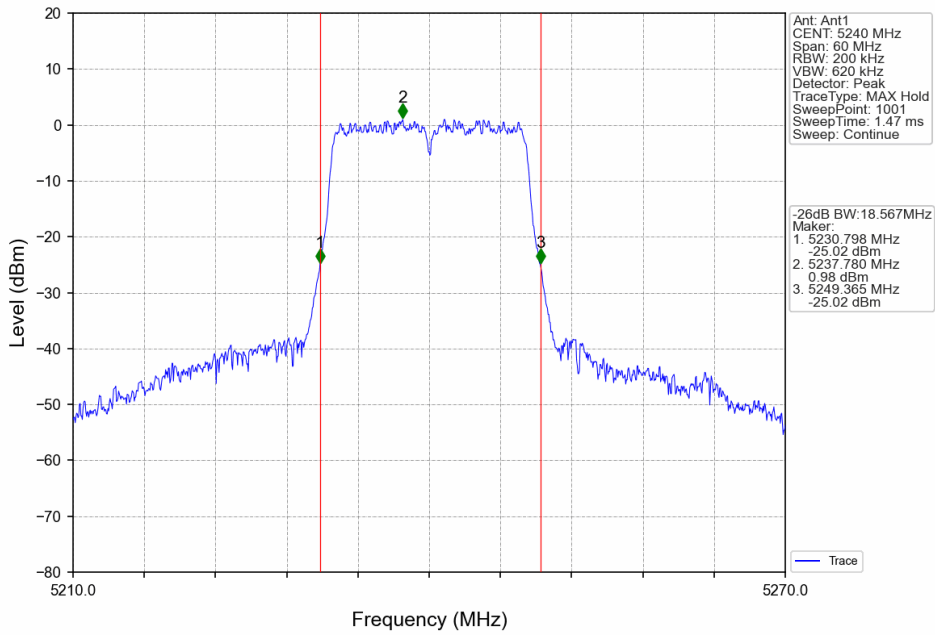
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	2	18.483	Pass
		5200	2	18.458	Pass
		5240	2	18.484	Pass
802.11n (HT20)	SISO	5180	2	19.426	Pass
		5200	2	19.385	Pass
		5240	2	19.447	Pass
802.11n (HT40)	SISO	5190	2	41.375	Pass
		5230	2	41.121	Pass
802.11ac (VHT20)	SISO	5180	2	19.418	Pass
		5200	2	19.407	Pass
		5240	2	19.378	Pass
802.11ac (VHT40)	SISO	5190	2	41.218	Pass
		5230	2	41.285	Pass
802.11ac (VHT80)	SISO	5210	2	81.828	Pass



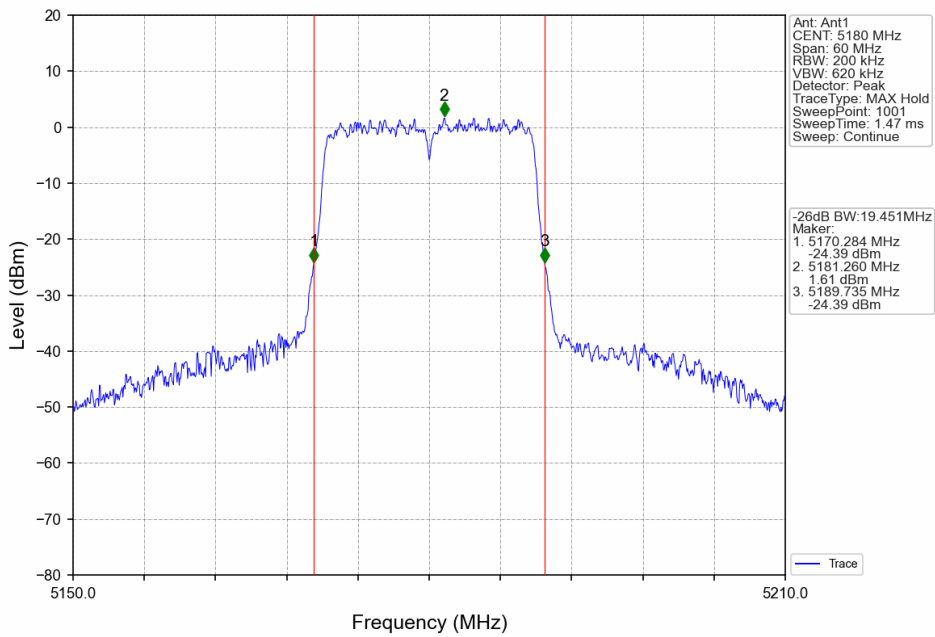
1.2.2 Test Graph



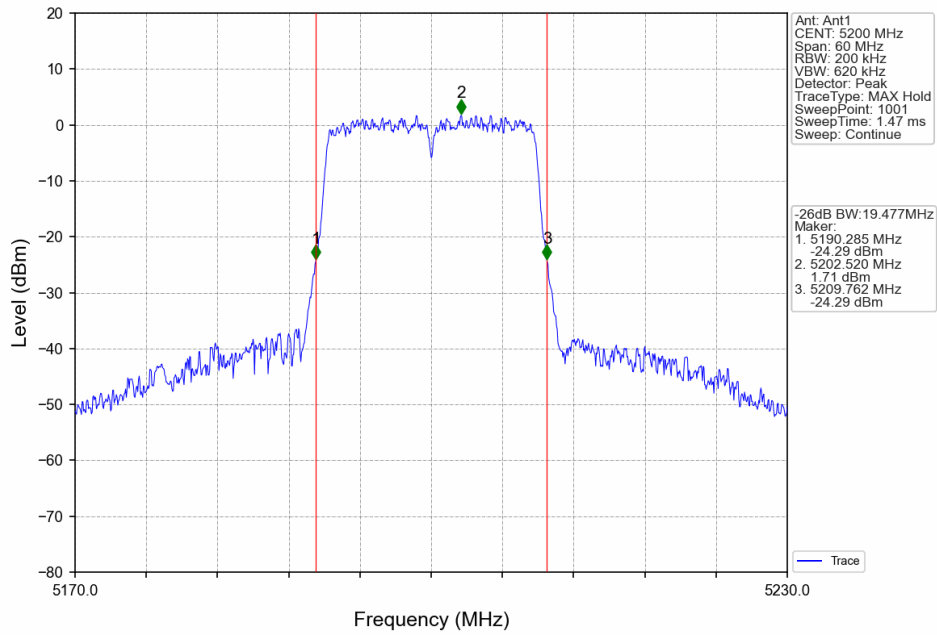
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



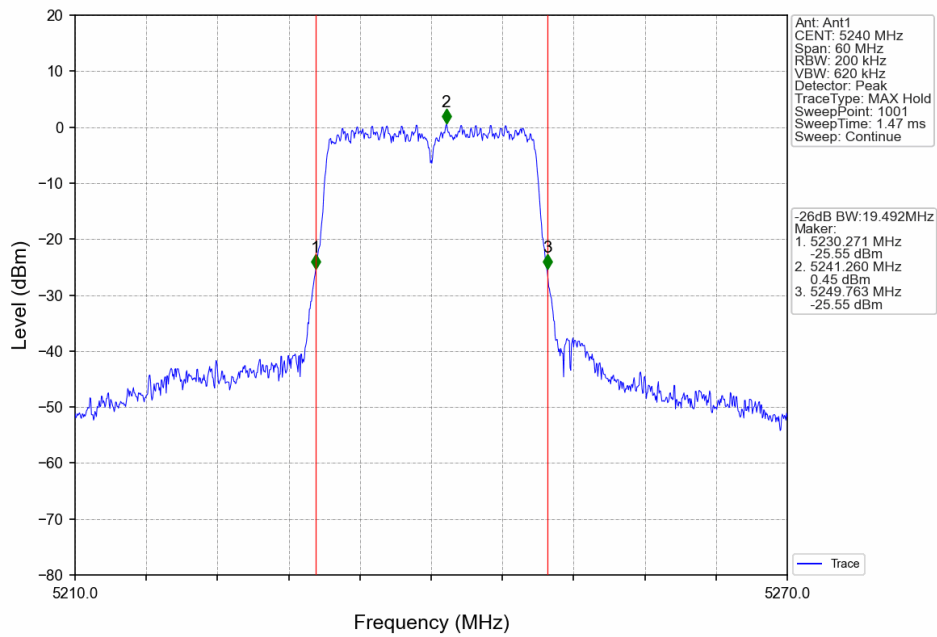
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



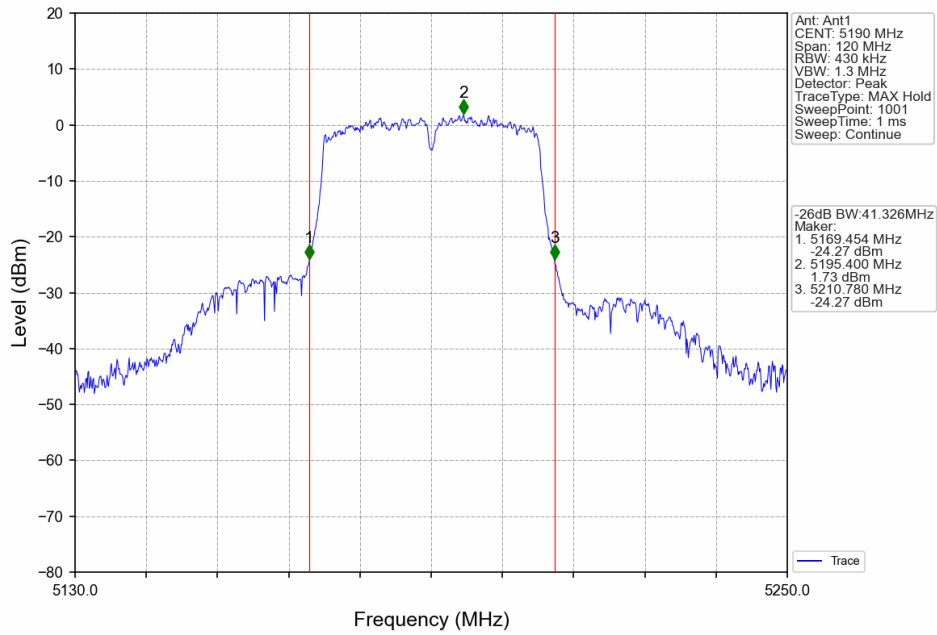
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



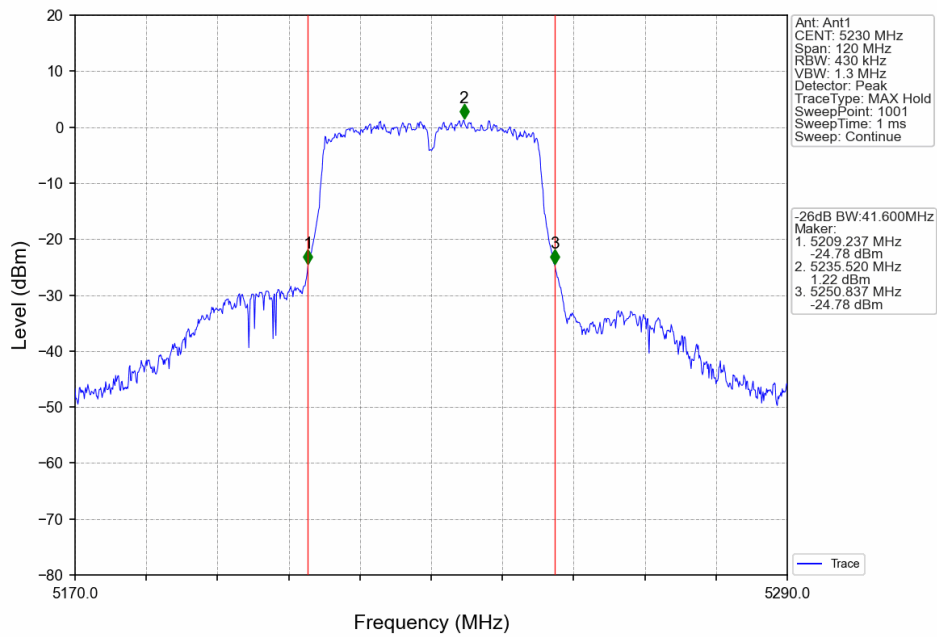
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



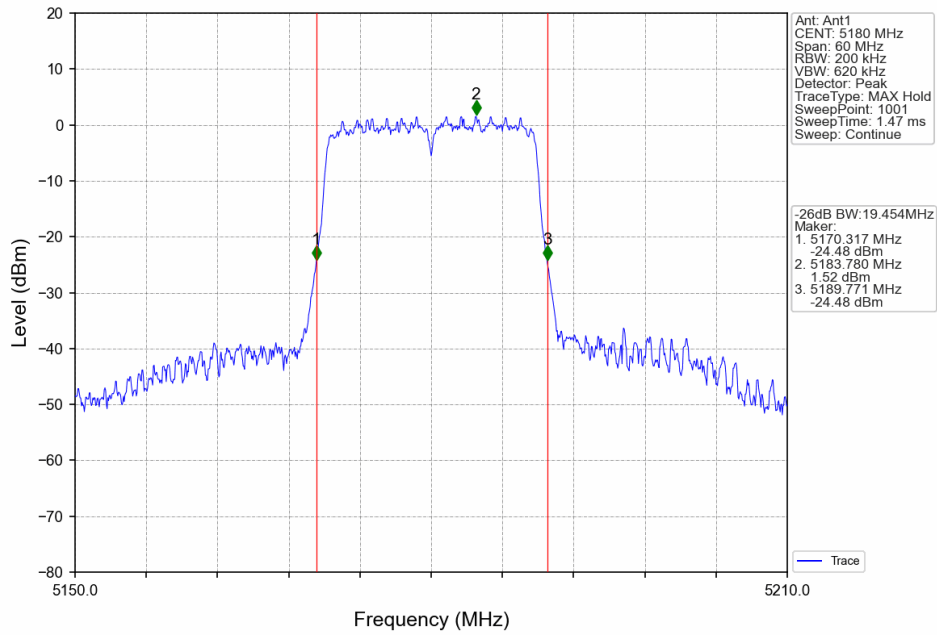
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



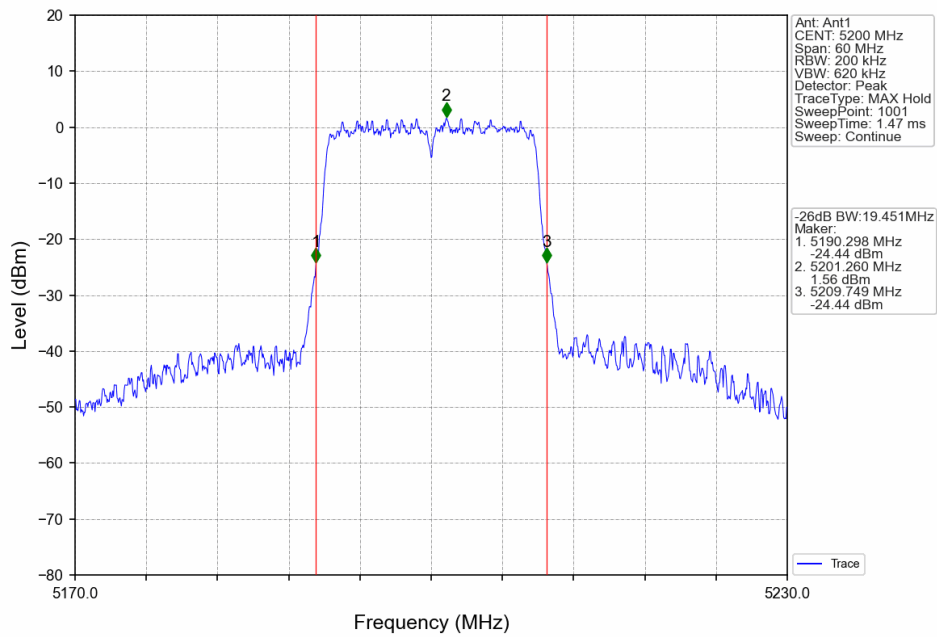
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



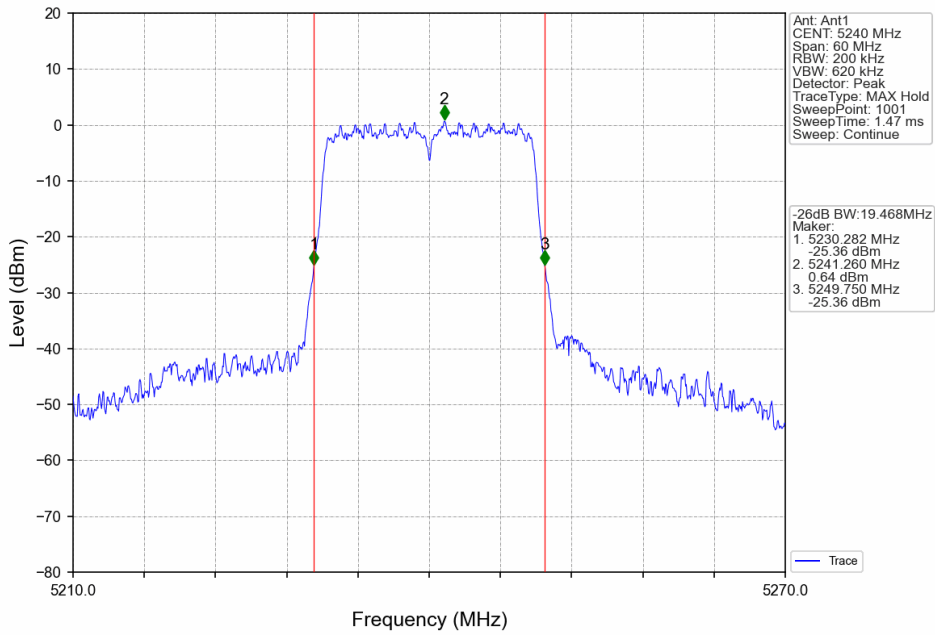
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



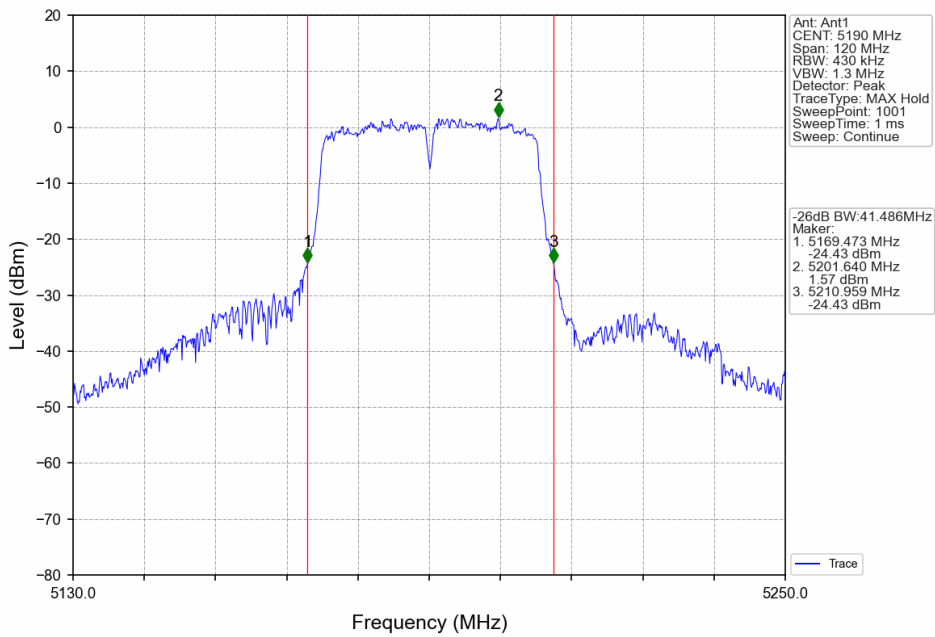
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



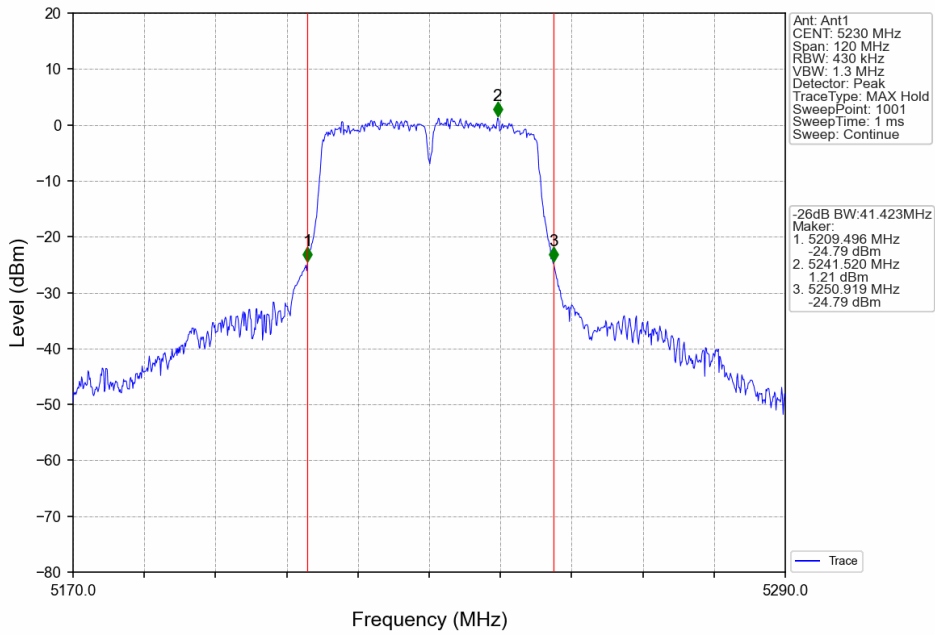
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



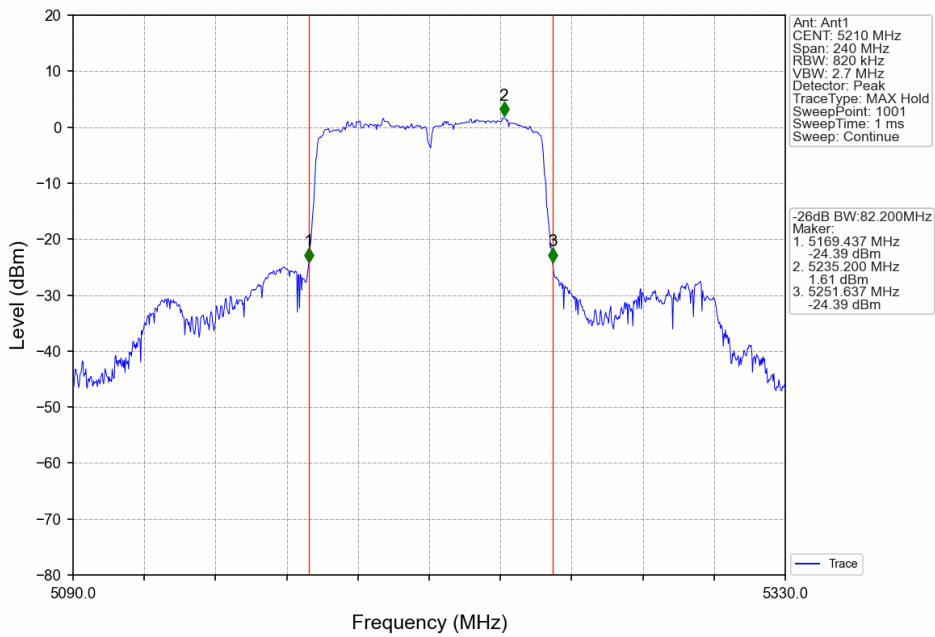
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



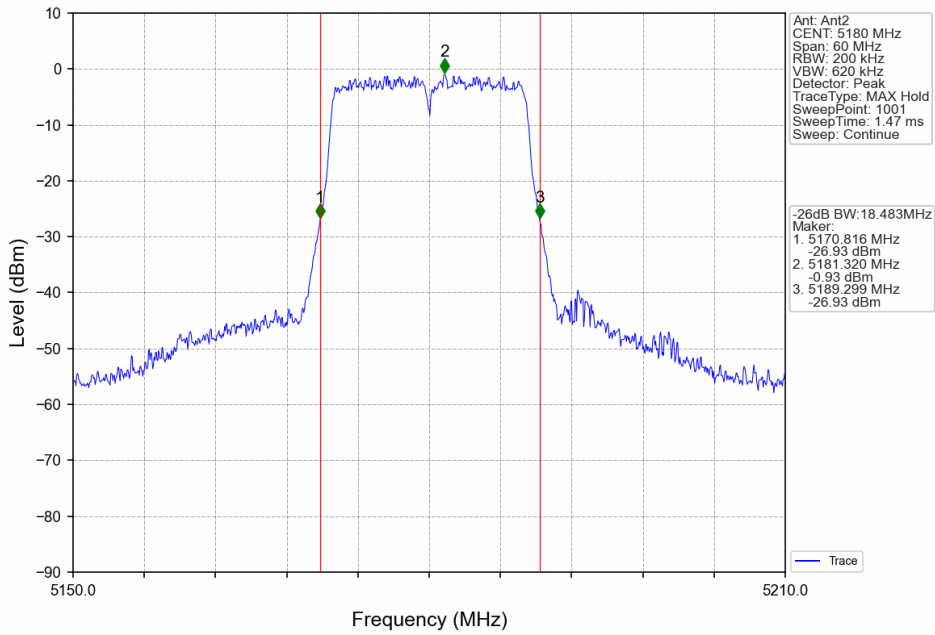
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



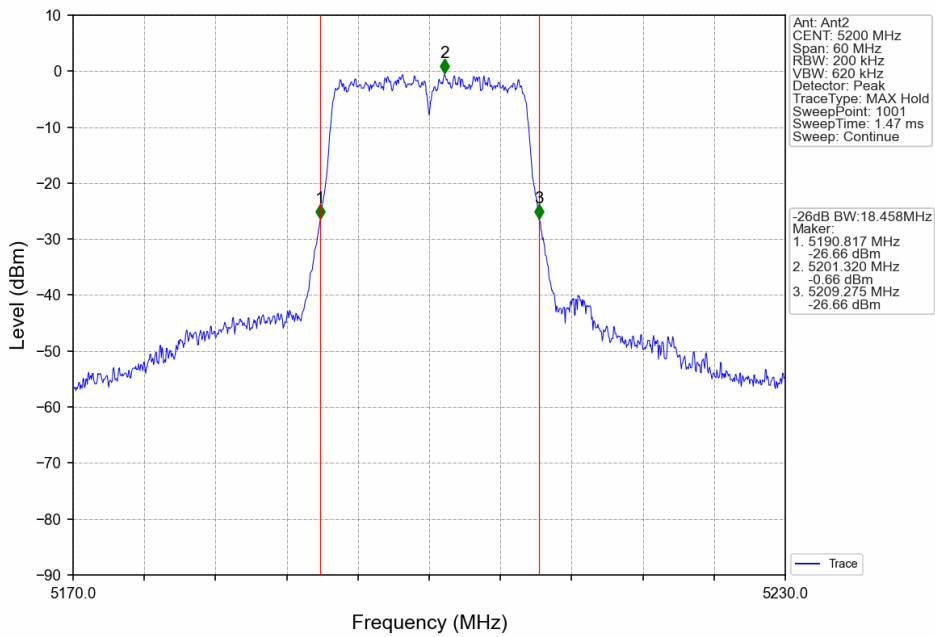
802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11a\_LCH\_5180MHz\_Ant2\_NTNV

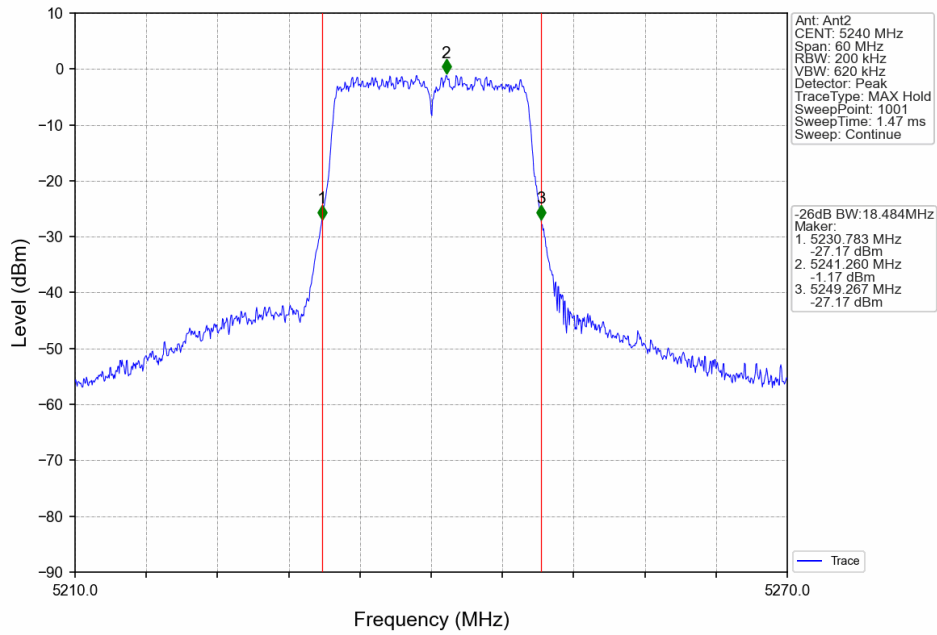


802.11a\_MCH\_5200MHz\_Ant2\_NTNV

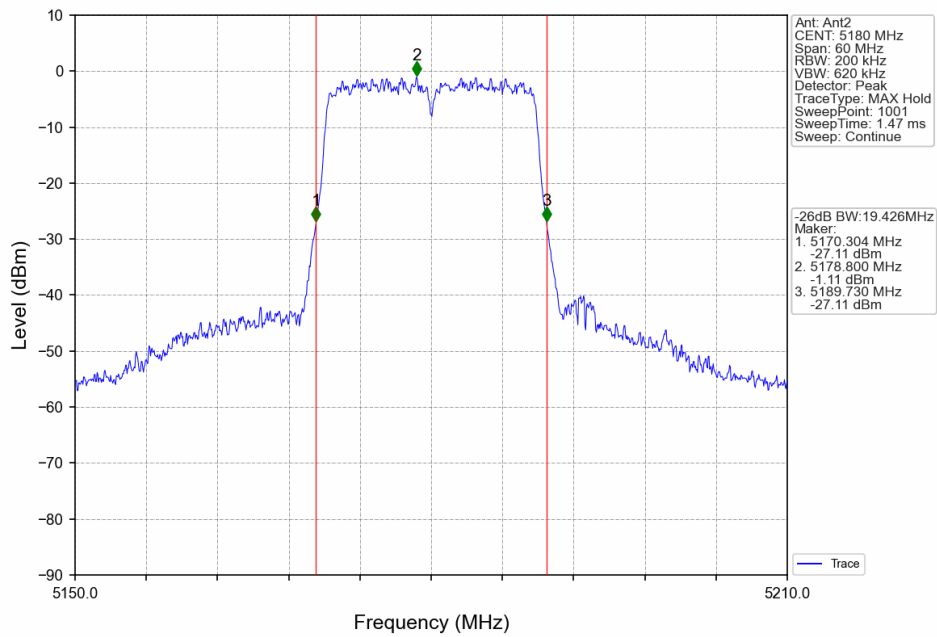




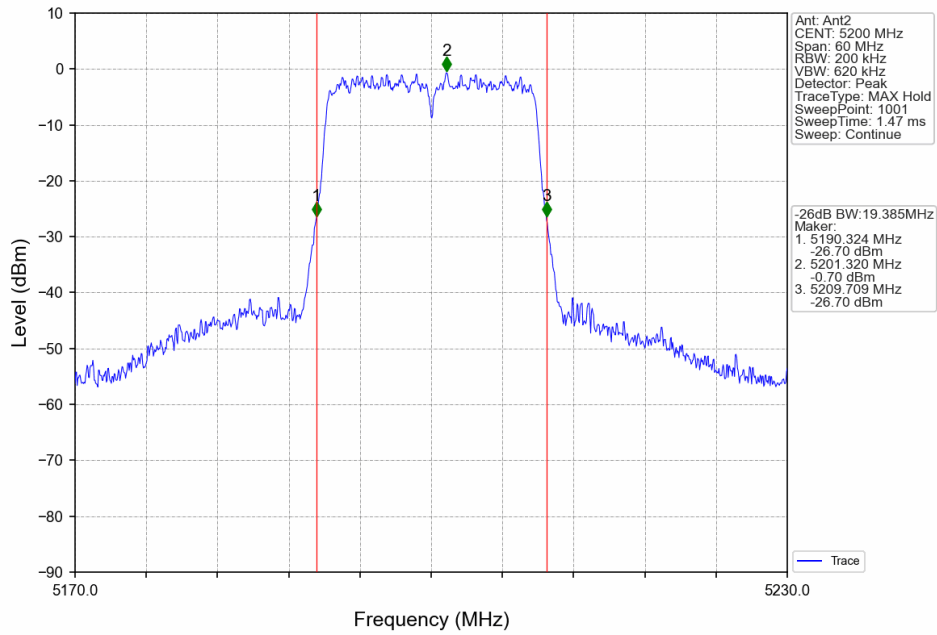
802.11a\_HCH\_5240MHz\_Ant2\_NTNV



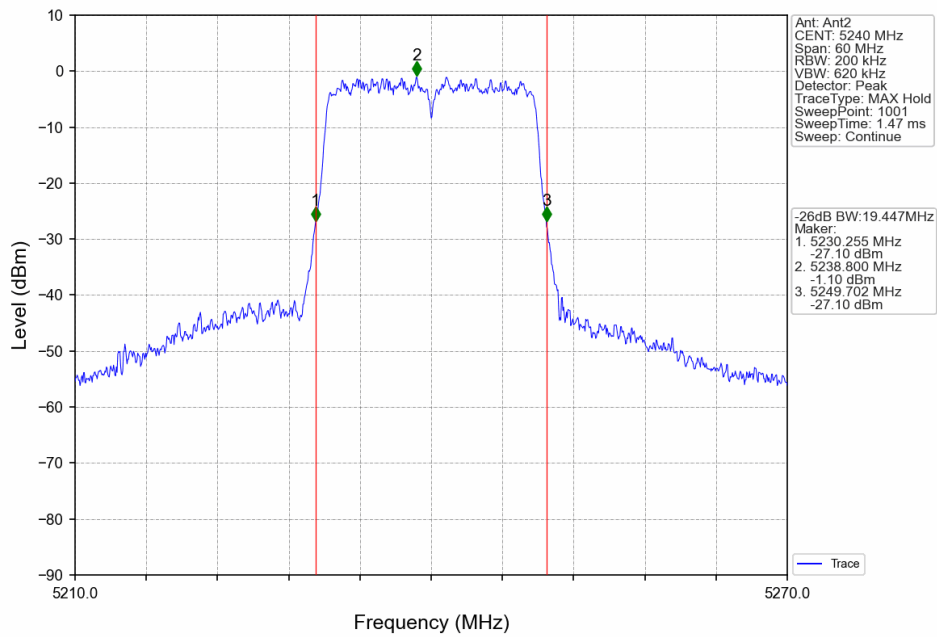
802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



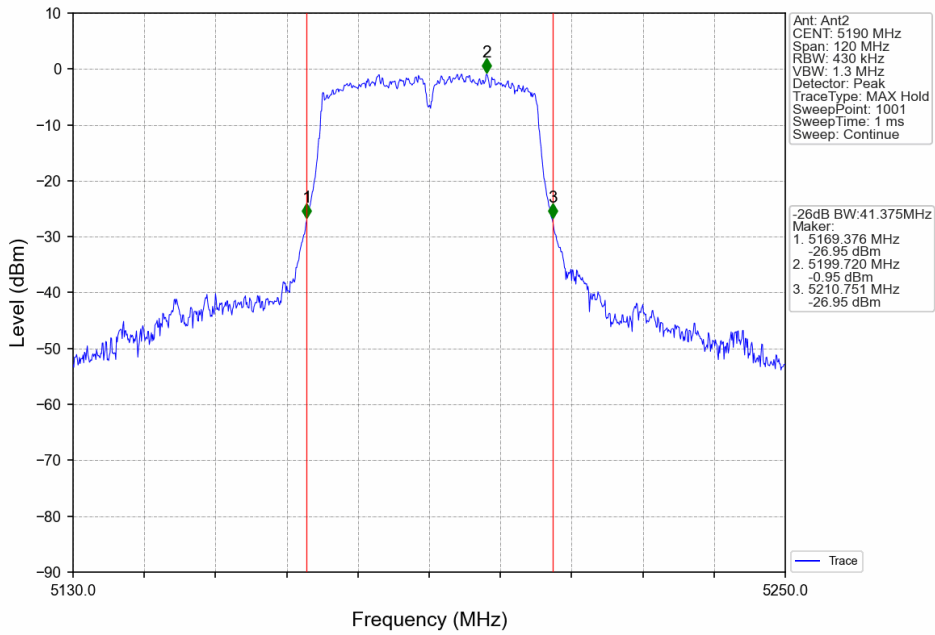
802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



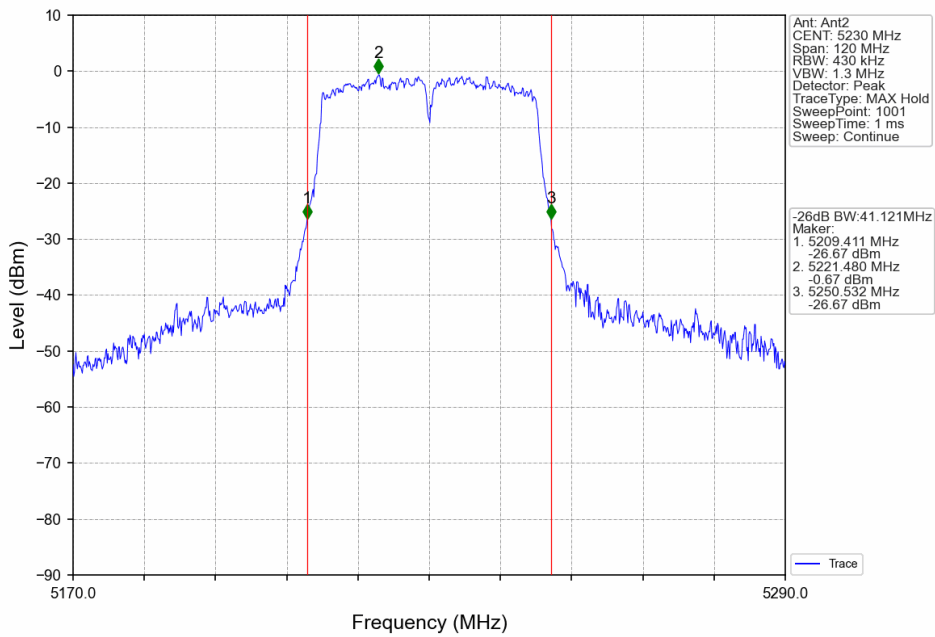
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



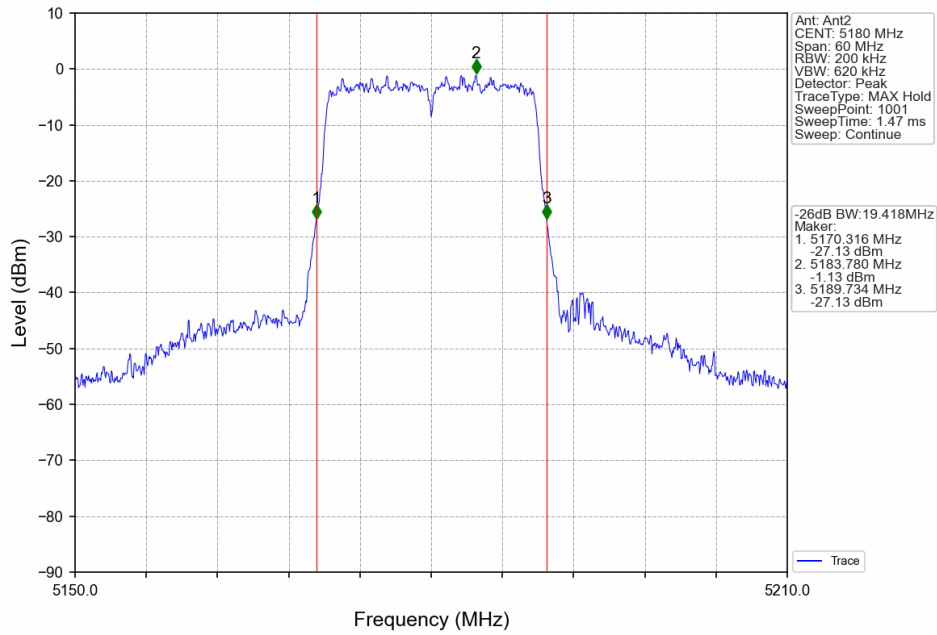
802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



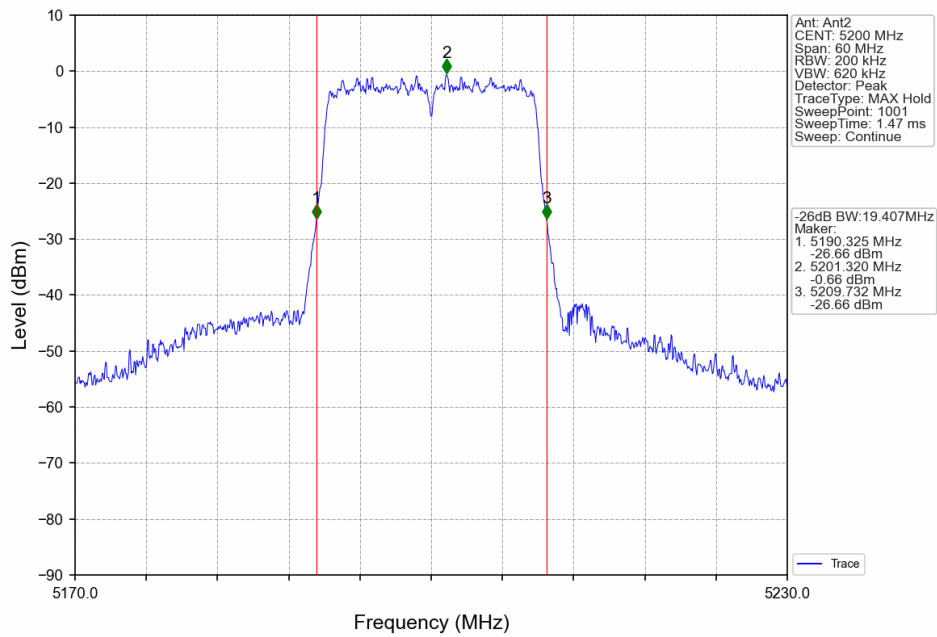
802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



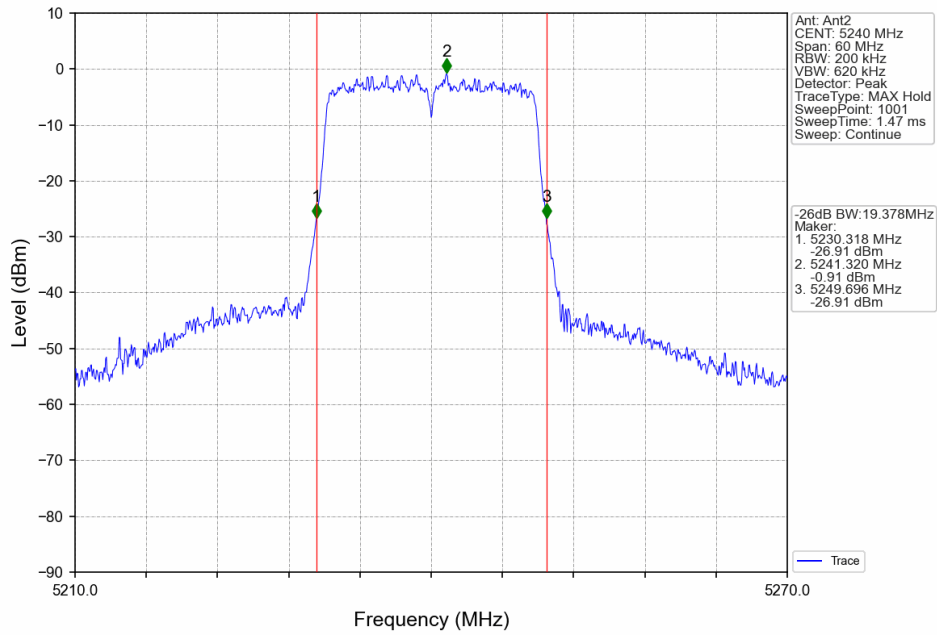
802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV



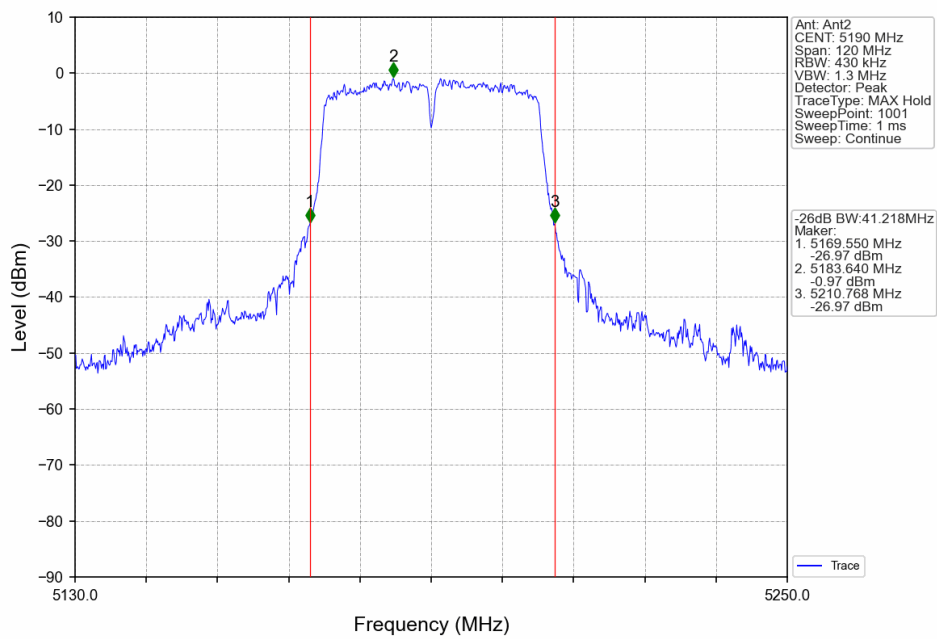
802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



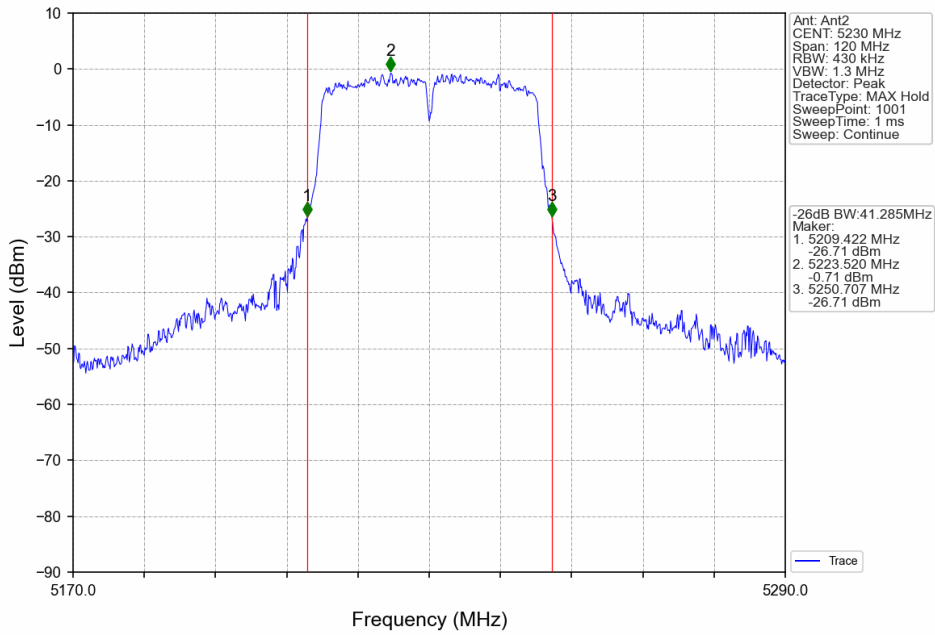
802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



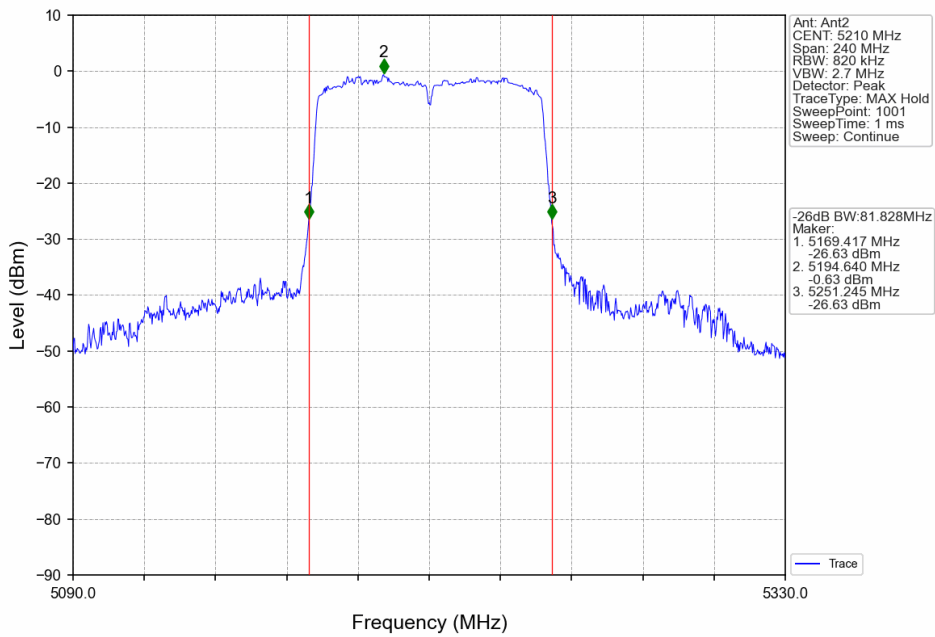
802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV



## 2. Maximum Conducted Output Power

### 2.1 Power

#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	12.56	11.79	/	<=23.98	Pass
		5200	12.27	11.73	/	<=23.98	Pass
		5240	11.28	11.22	/	<=23.98	Pass
802.11n (HT20)	SISO	5180	11.76	11.22	/	<=23.98	Pass
		5200	11.99	11.68	/	<=23.98	Pass
		5240	10.71	10.91	/	<=23.98	Pass
802.11n (HT40)	SISO	5190	11.97	11.61	/	<=23.98	Pass
		5230	11.29	11.40	/	<=23.98	Pass
802.11n (HT20)	MIMO	5180	10.90	10.48	13.71	<=23.98	Pass
		5200	10.96	10.84	13.91	<=23.98	Pass
		5240	9.82	10.03	12.94	<=23.98	Pass
802.11n (HT40)	MIMO	5190	11.21	11.05	14.14	<=23.98	Pass
		5230	10.54	10.94	13.75	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	11.59	11.20	/	<=23.98	Pass
		5200	11.78	11.55	/	<=23.98	Pass
		5240	10.65	10.99	/	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	11.93	11.58	/	<=23.98	Pass
		5230	11.45	11.58	/	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	12.24	11.86	/	<=23.98	Pass
802.11ac (VHT20)	MIMO	5180	11.31	11.12	14.23	<=23.98	Pass
		5200	11.32	11.47	14.41	<=23.98	Pass
		5240	10.37	10.87	13.64	<=23.98	Pass
802.11ac (VHT40)	MIMO	5190	11.58	11.42	14.51	<=23.98	Pass
		5230	11.36	11.47	14.43	<=23.98	Pass
802.11ac (VHT80)	MIMO	5210	12.25	11.61	14.95	<=23.98	Pass

Note1: Antenna Gain: Ant1: 1.95dBi; Ant2: 1.95dBi;  
Note2: Directional Gain: 4.96dBi

### 3. Maximum Power Spectral Density

#### 3.1 PSD

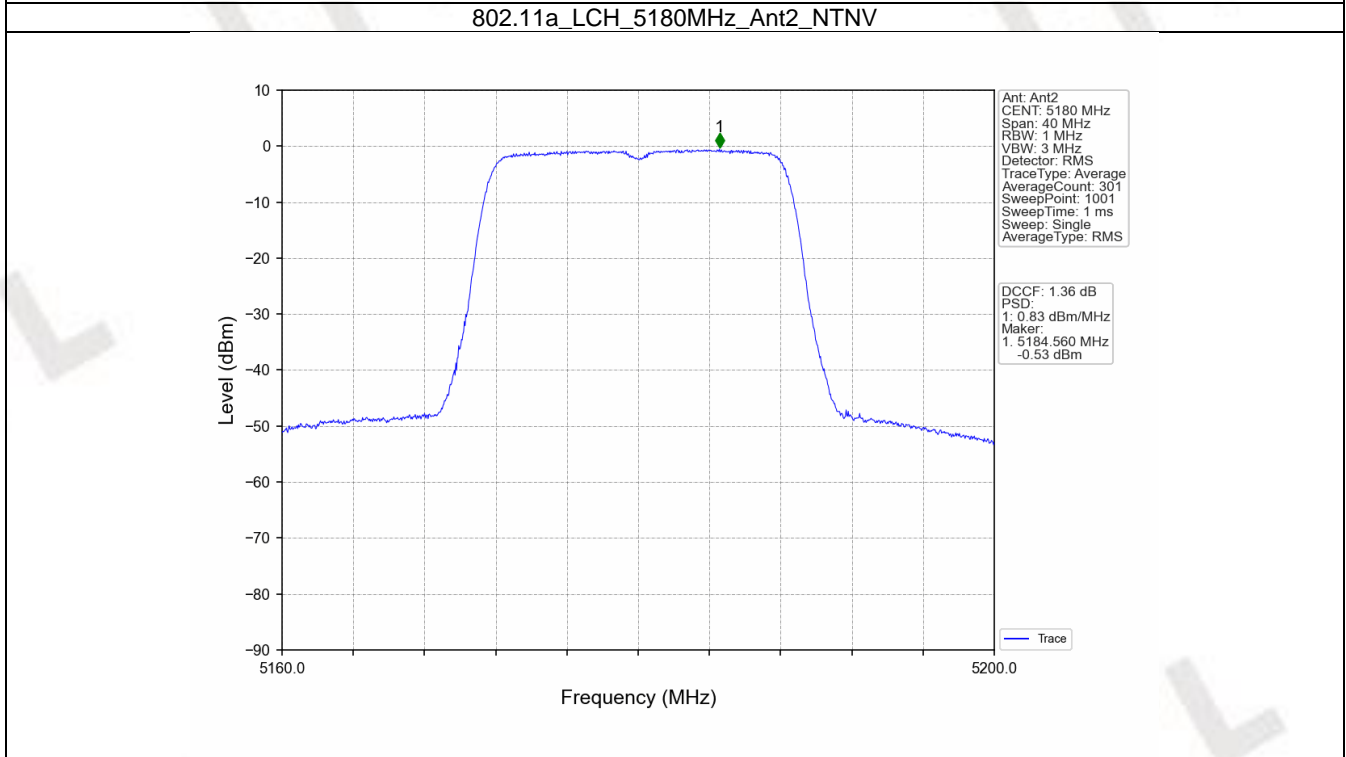
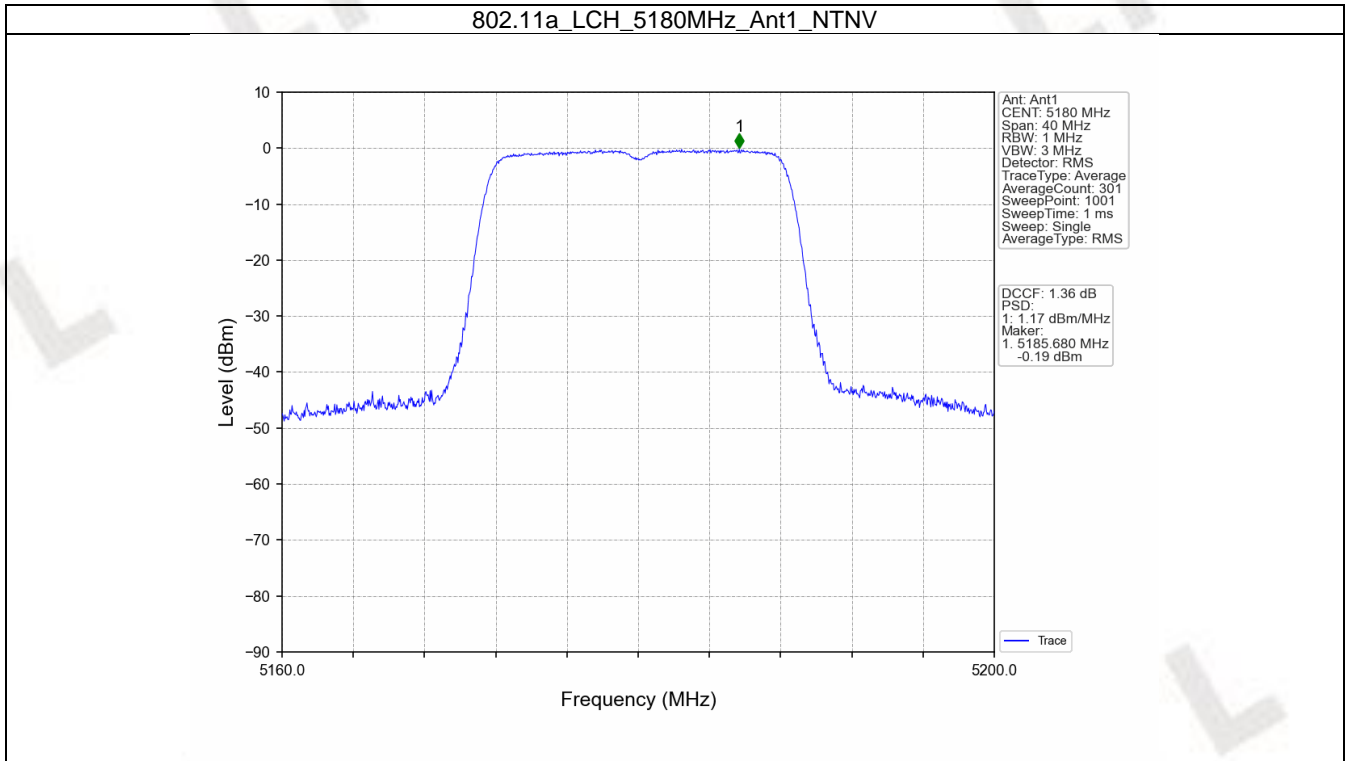
##### 3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5180	1.17	0.83	/	<=11	Pass
		5200	0.84	0.84	/	<=11	Pass
		5240	0.28	-0.60	/	<=11	Pass
802.11n (HT20)	SISO	5180	0.20	-0.19	/	<=11	Pass
		5200	0.48	0.15	/	<=11	Pass
		5240	-0.84	-0.60	/	<=11	Pass
802.11n (HT40)	SISO	5190	-2.20	-2.66	/	<=11	Pass
		5230	-2.83	-2.55	/	<=11	Pass
802.11n (HT20)	MIMO	5180	-0.48	-0.83	2.36	<=11	Pass
		5200	-0.61	-0.72	2.25	<=11	Pass
		5240	-1.77	-1.16	1.37	<=11	Pass
802.11n (HT40)	MIMO	5190	-2.88	-3.22	-0.19	<=11	Pass
		5230	-3.47	-3.54	-0.62	<=11	Pass
802.11ac (VHT20)	SISO	5180	0.31	-0.13	/	<=11	Pass
		5200	0.34	0.04	/	<=11	Pass
		5240	-0.76	-0.36	/	<=11	Pass
802.11ac (VHT40)	SISO	5190	-2.08	-2.53	/	<=11	Pass
		5230	-2.76	-2.75	/	<=11	Pass
802.11ac (VHT80)	SISO	5210	-4.94	-5.28	/	<=11	Pass
802.11ac (VHT20)	MIMO	5180	0.08	-0.07	2.76	<=11	Pass
		5200	-0.03	-0.05	2.71	<=11	Pass
		5240	-1.26	-0.35	2.05	<=11	Pass
802.11ac (VHT40)	MIMO	5190	-1.90	-2.79	0.37	<=11	Pass
		5230	-2.58	-2.28	0.43	<=11	Pass
802.11ac (VHT80)	MIMO	5210	-4.71	-5.25	-2.56	<=11	Pass

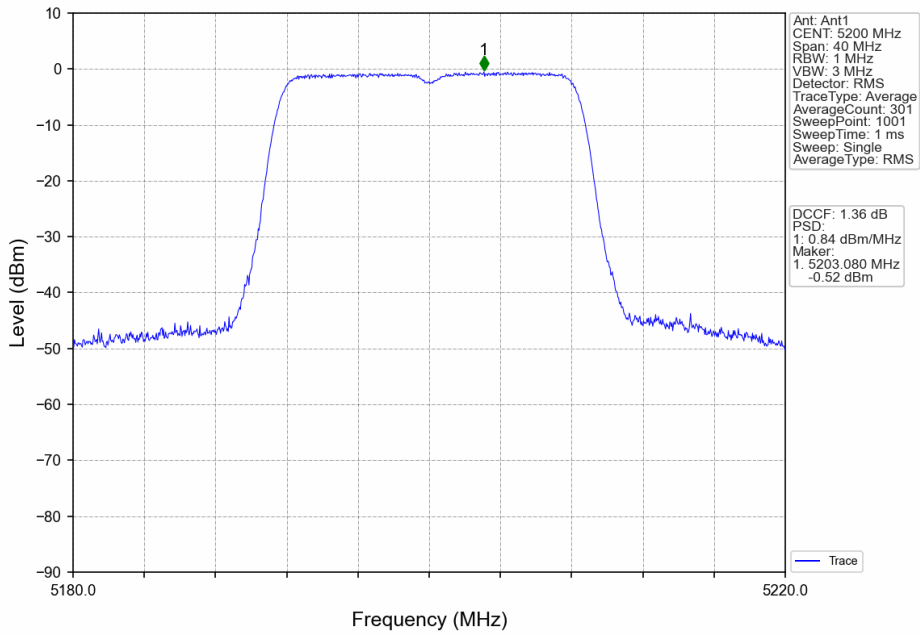
Note1: Antenna Gain: Ant1: 1.95dBi; Ant2: 1.95dBi;  
Note2: Directional Gain: Band1: 4.96dBi



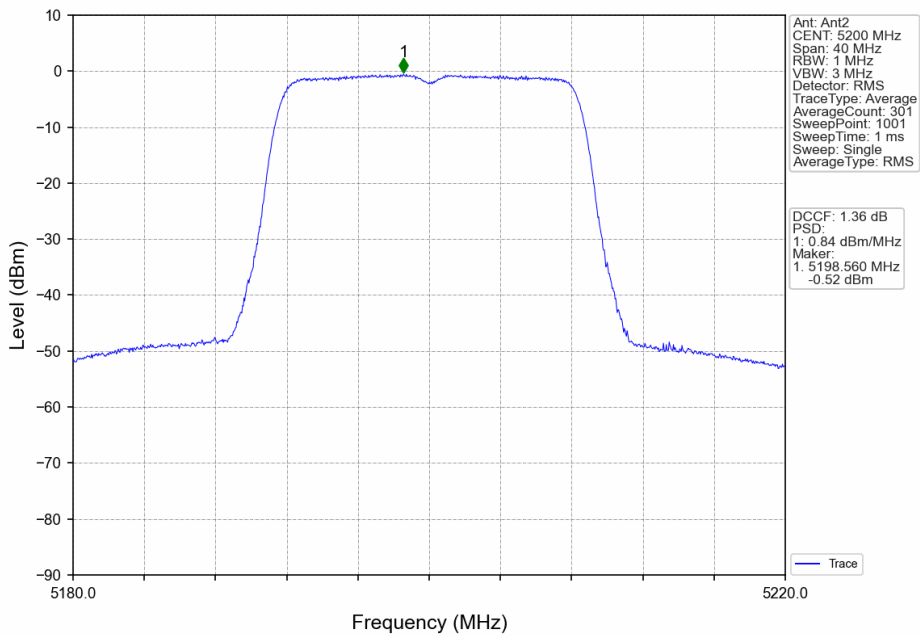
3.1.2 Test Graph



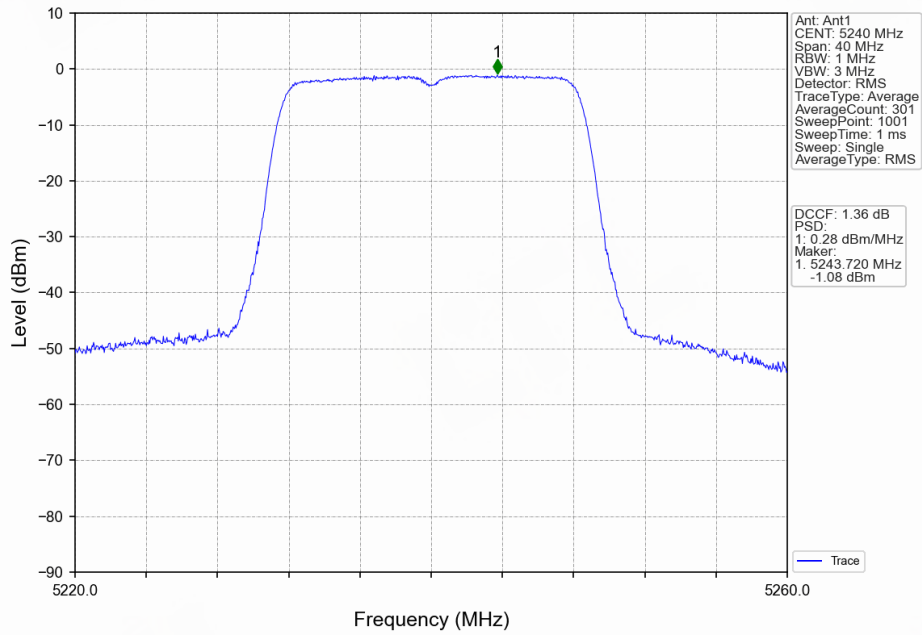
802.11a\_MCH\_5200MHz\_Ant1\_NTNV



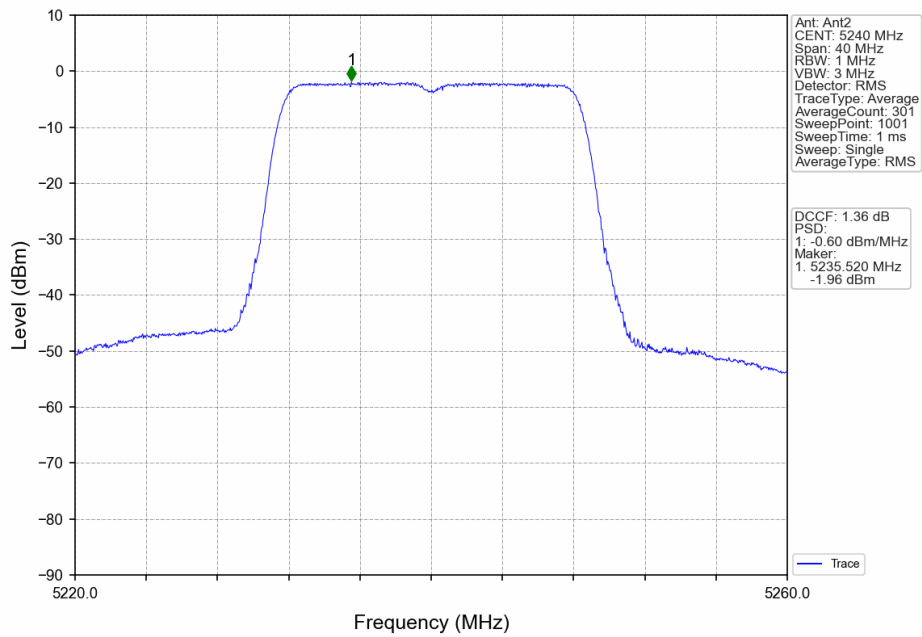
802.11a\_MCH\_5200MHz\_Ant2\_NTNV



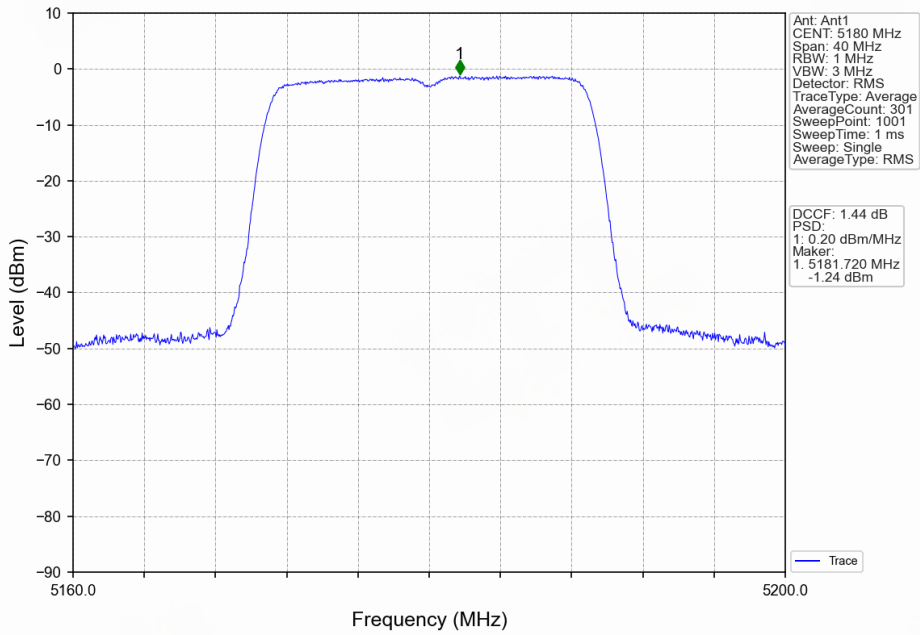
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



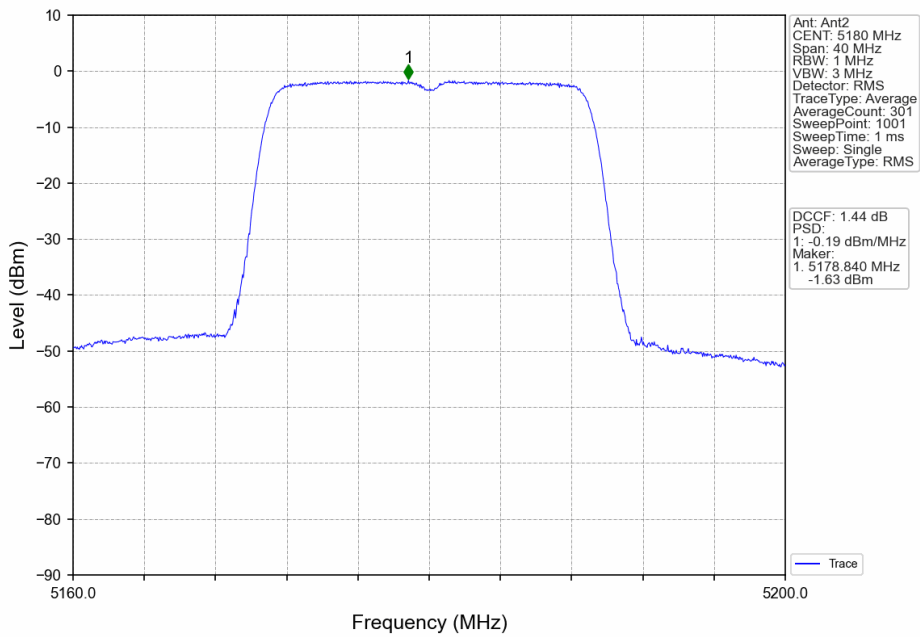
802.11a\_HCH\_5240MHz\_Ant2\_NTNV



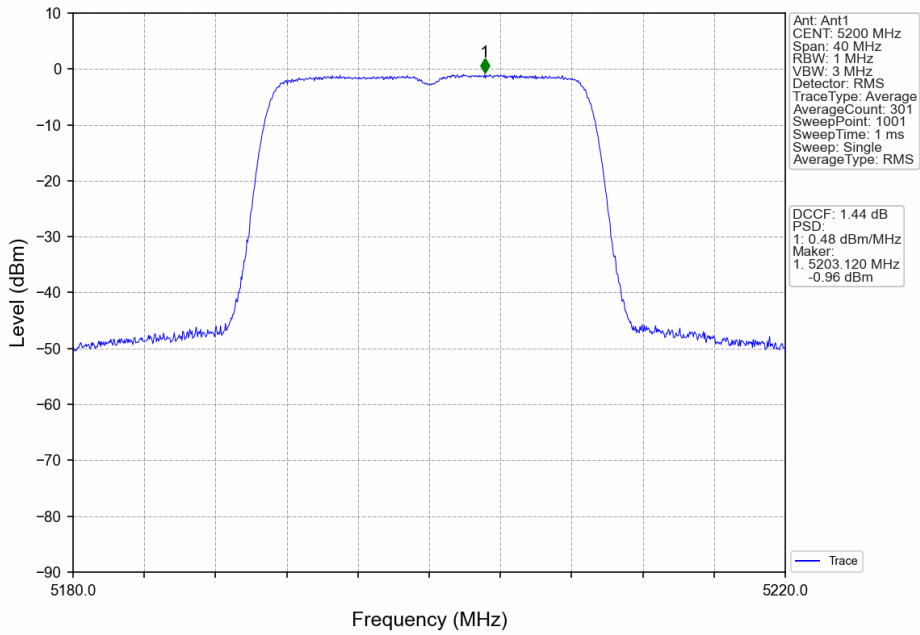
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



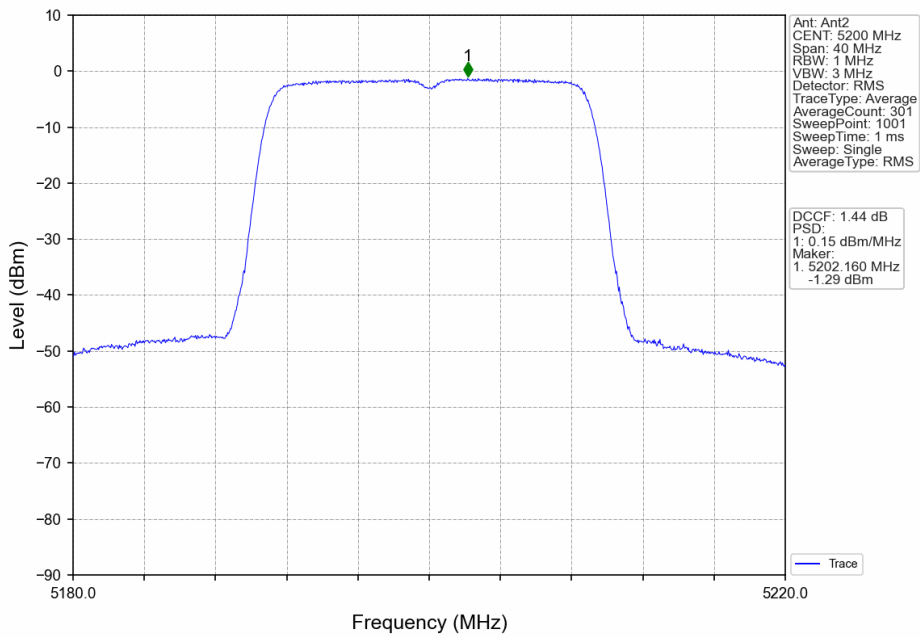
802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



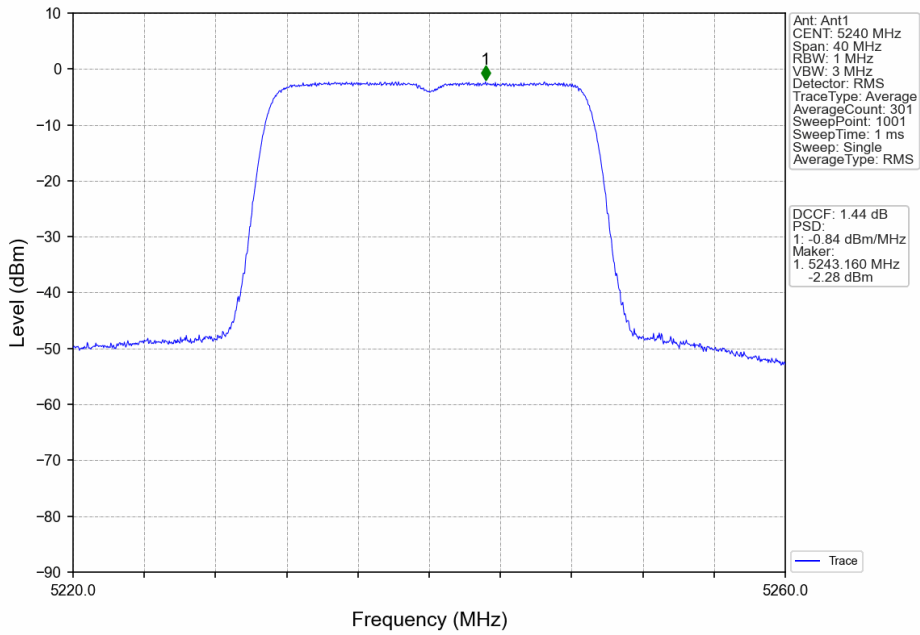
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



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



802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV

