

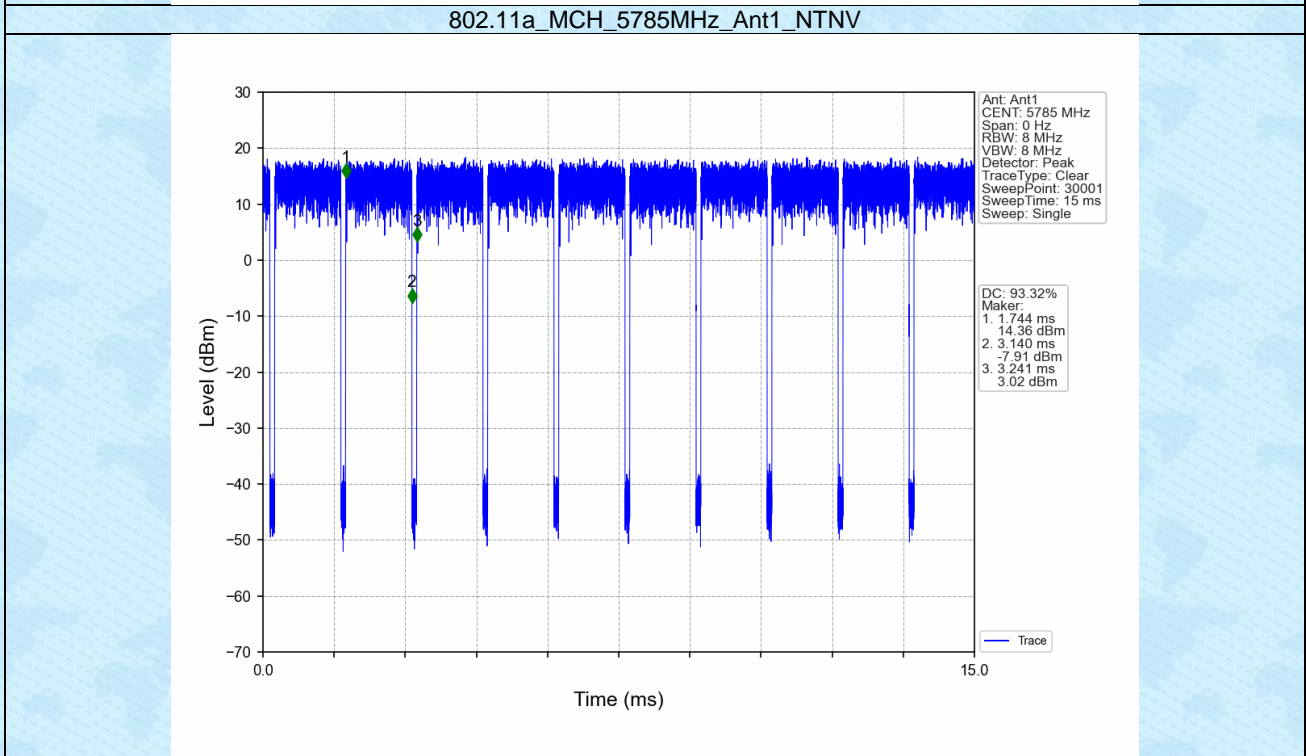
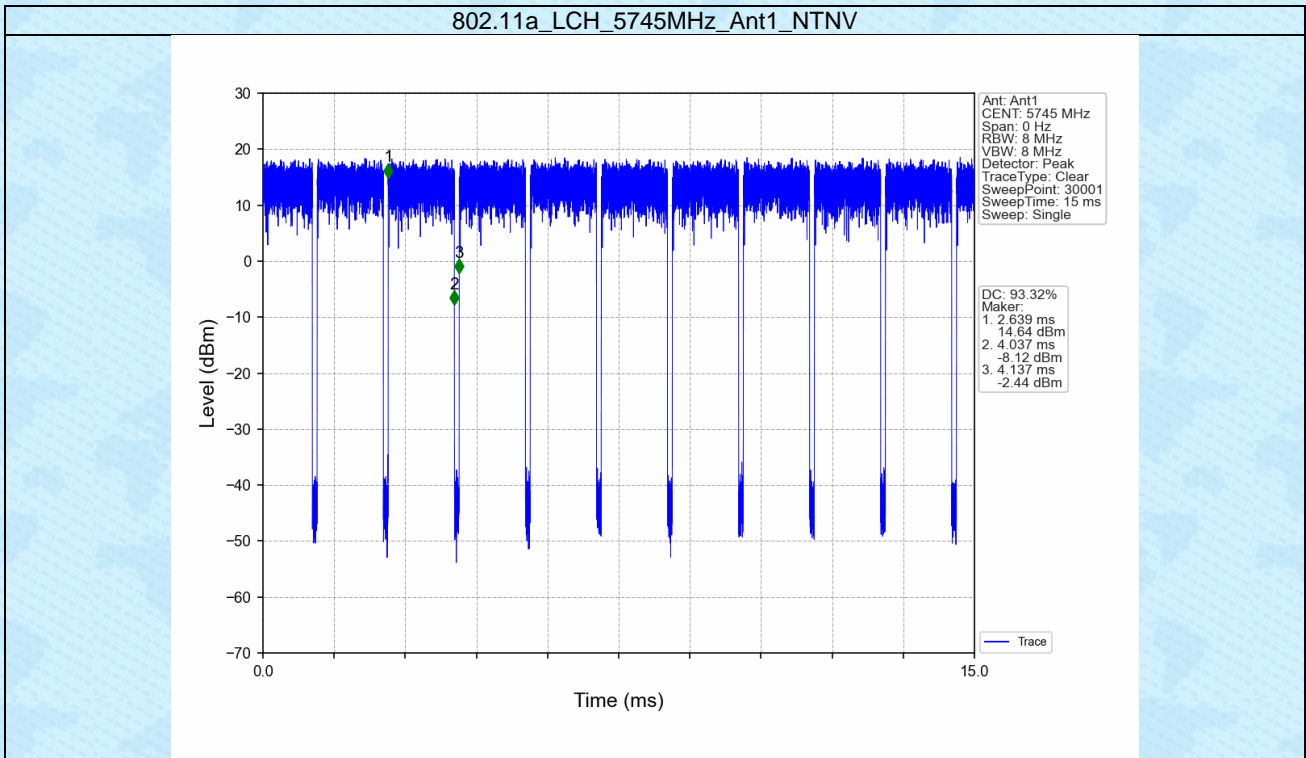
## Appendix for 15.407

### 1. Duty Cycle

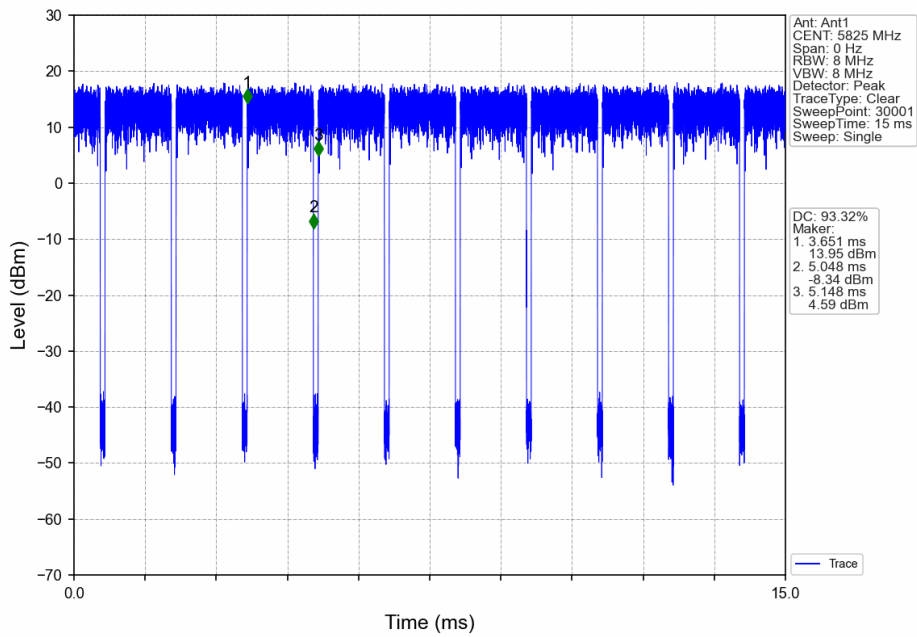
#### 1.1 Test Result

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	1.397	1.497	93.32	0.30	0.03
		5785	1.398	1.498	93.32	0.30	0.00
		5825	1.398	1.498	93.32	0.30	0.03
802.11n (HT20)	SISO	5745	1.310	1.409	92.97	0.32	0.06
		5785	1.309	1.409	92.90	0.32	0.00
		5825	1.309	1.409	92.90	0.32	0.03
802.11n (HT40)	SISO	5755	0.651	0.690	94.35	0.25	0.07
		5795	0.651	0.690	94.35	0.25	0.07
802.11ac (VHT20)	SISO	5745	1.317	1.358	96.98	0.13	0.03
		5785	1.317	1.358	96.98	0.13	0.03
		5825	1.317	1.358	96.98	0.13	0.07
802.11ac (VHT40)	SISO	5755	0.660	0.698	94.56	0.24	0.07
		5795	0.659	0.697	94.55	0.24	0.07
802.11ac (VHT80)	SISO	5775	0.325	0.425	76.47	1.17	0.06

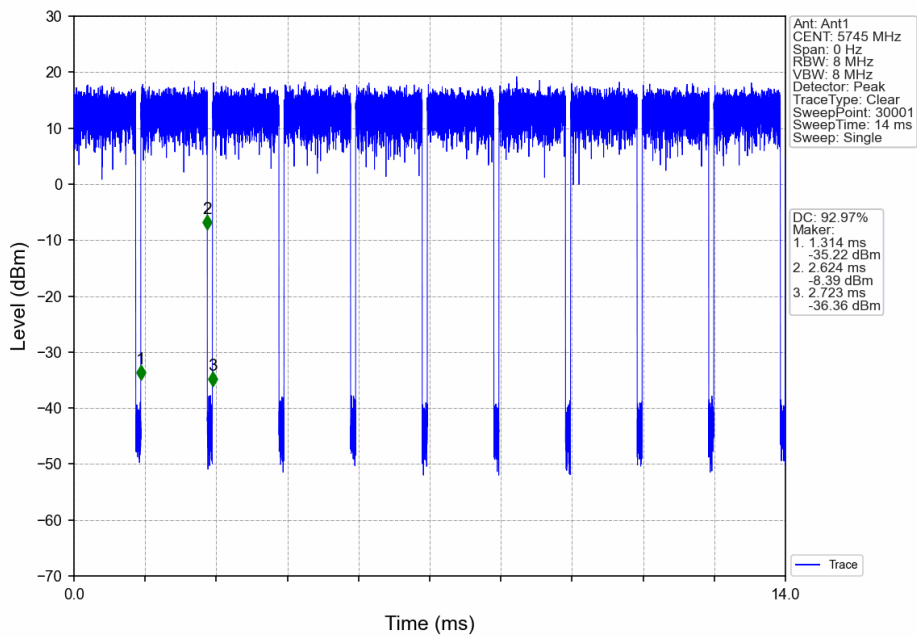
## 1.2 Test Graph



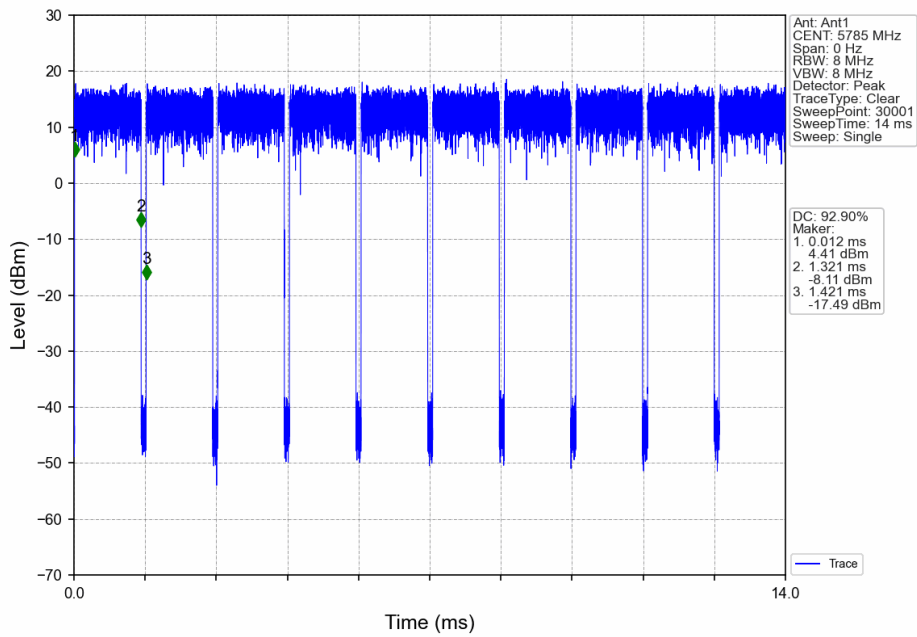
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



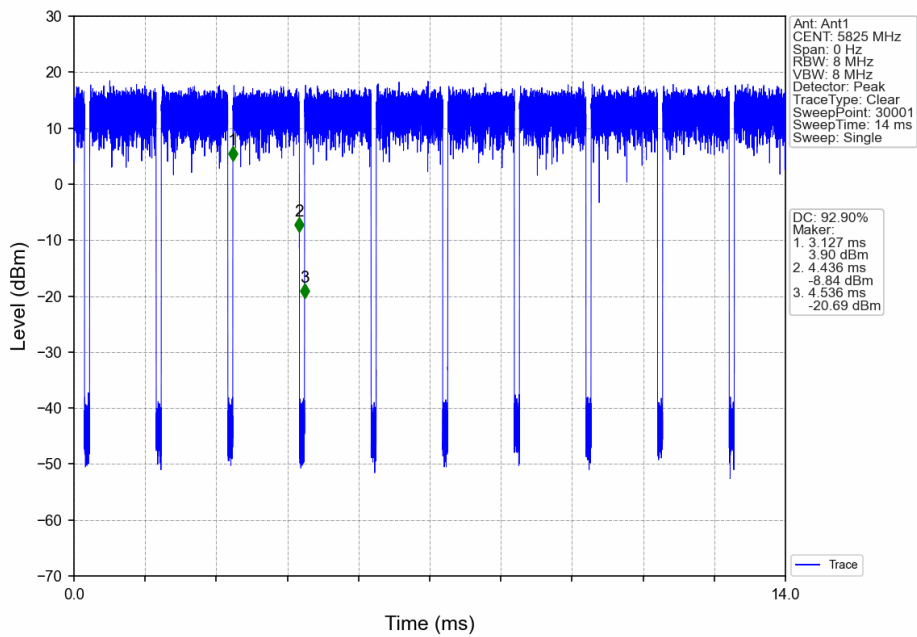
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



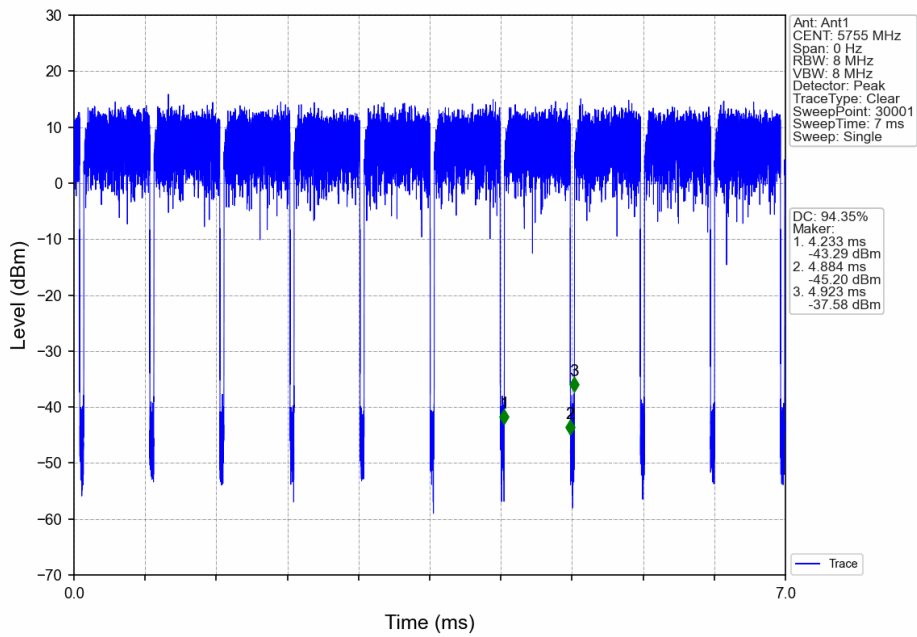
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



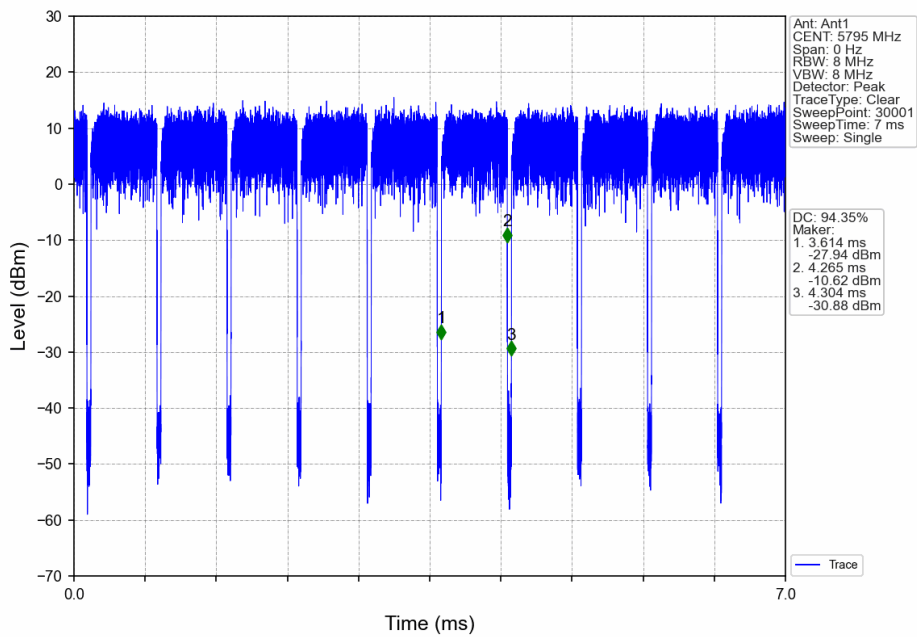
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



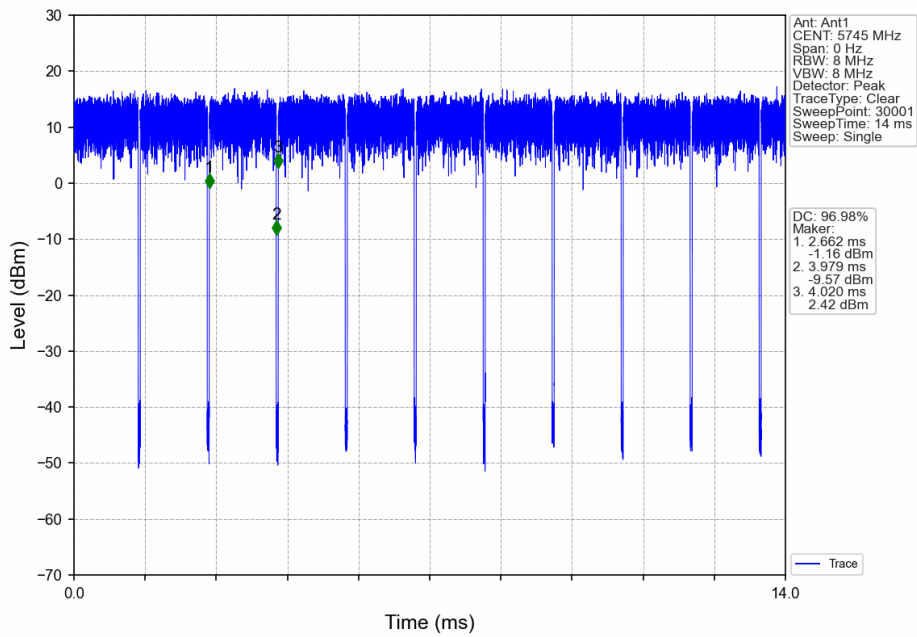
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



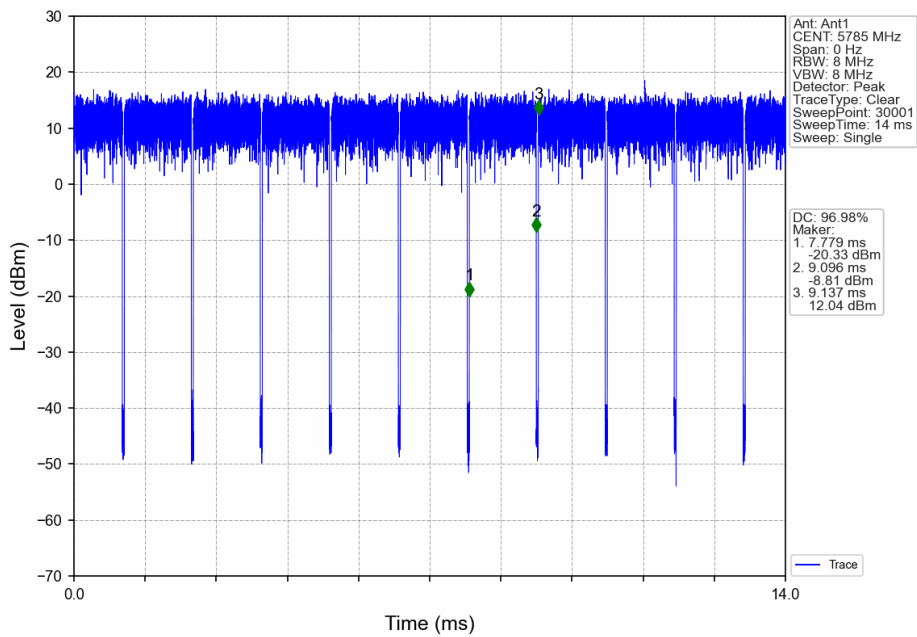
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



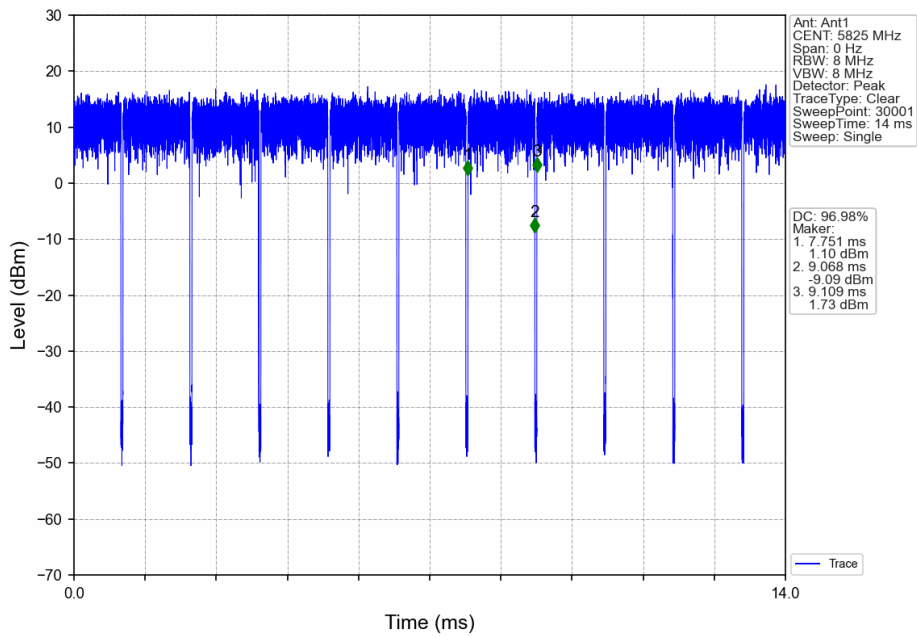
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



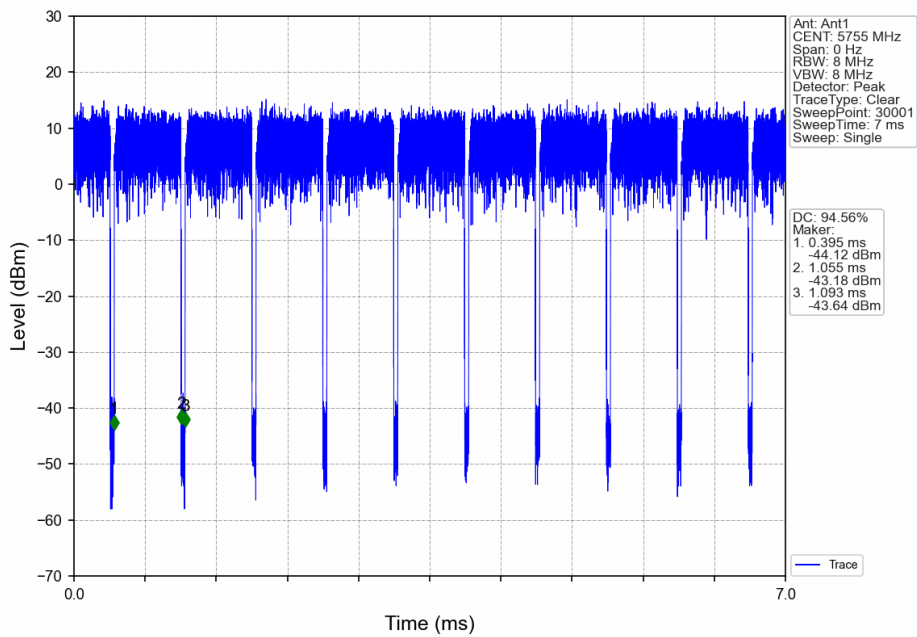
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



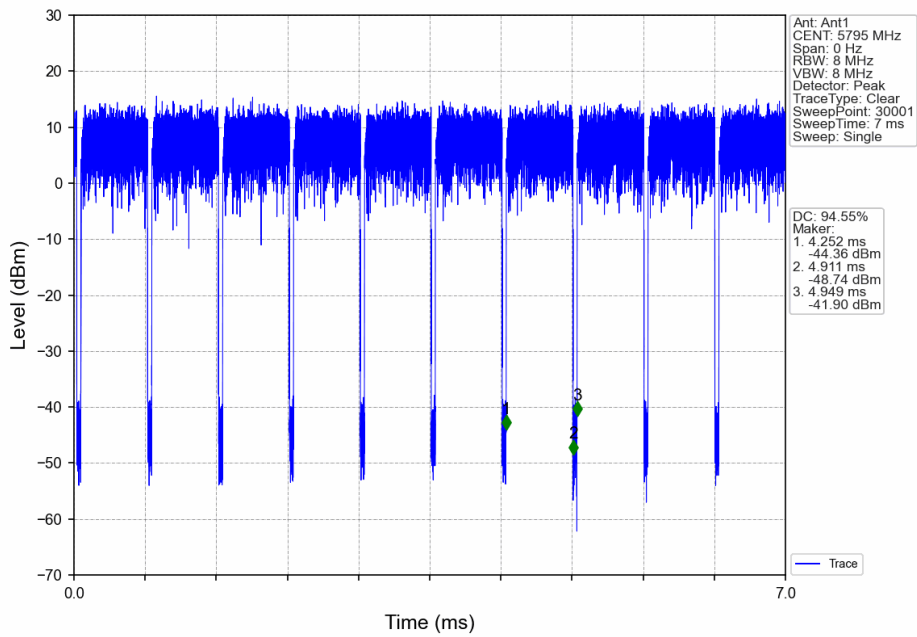
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



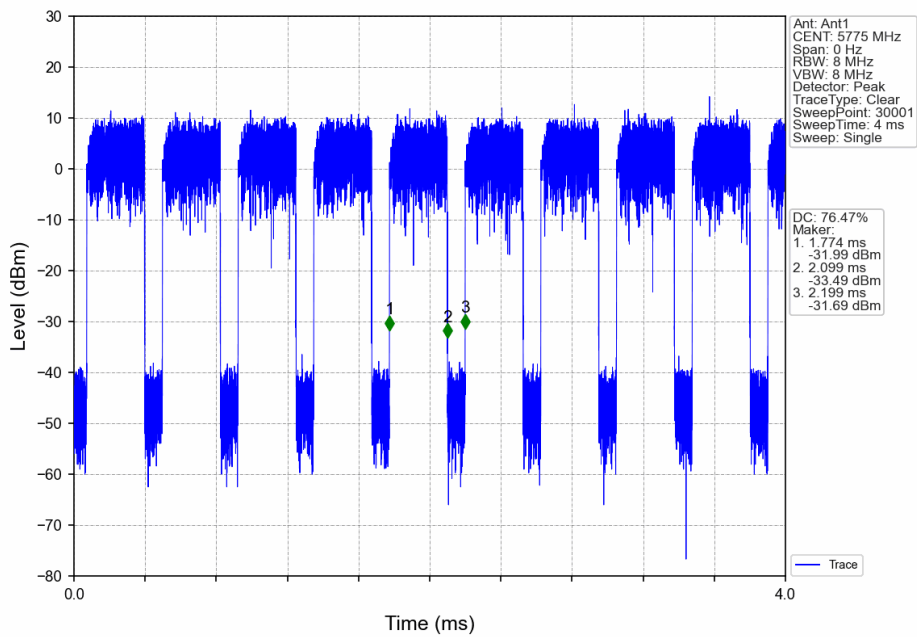
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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



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





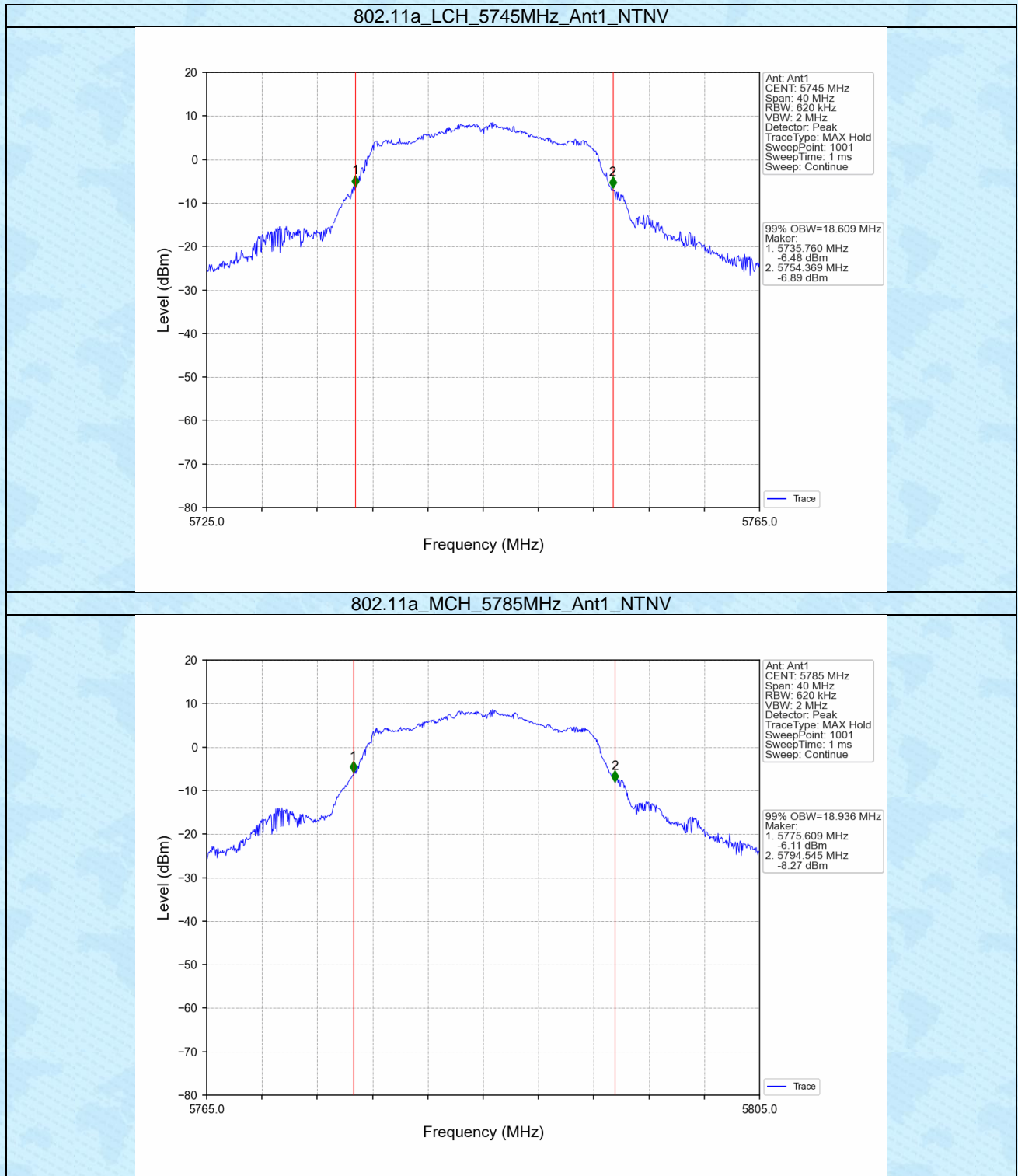
## 2. Bandwidth

### 2.1 OBW

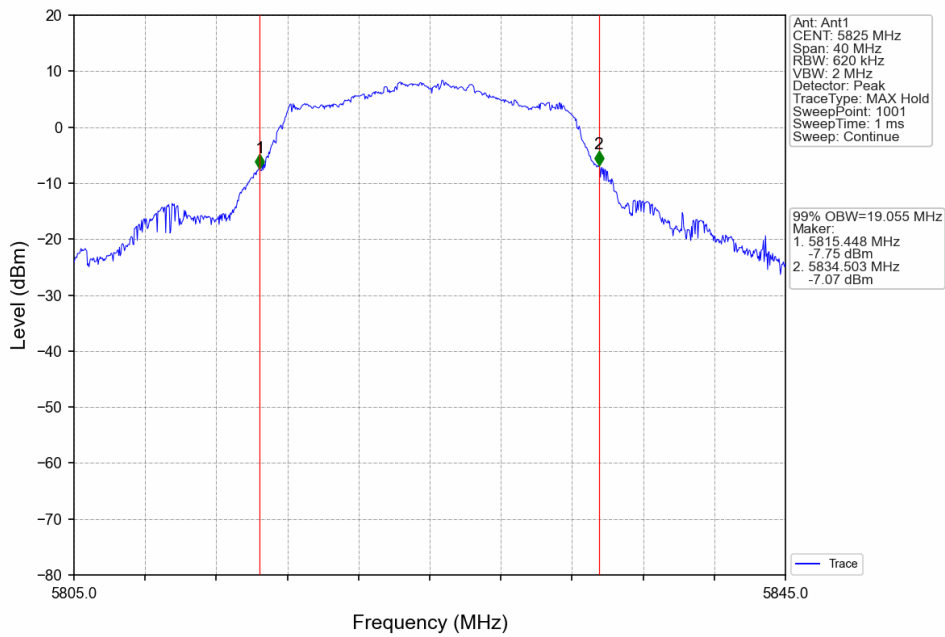
#### 2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5745	1	18.609	Pass
		5785	1	18.936	Pass
		5825	1	19.055	Pass
802.11n (HT20)	SISO	5745	1	19.311	Pass
		5785	1	19.341	Pass
		5825	1	19.346	Pass
802.11n (HT40)	SISO	5755	1	36.883	Pass
		5795	1	36.769	Pass
802.11ac (VHT20)	SISO	5745	1	18.916	Pass
		5785	1	18.898	Pass
		5825	1	18.974	Pass
802.11ac (VHT40)	SISO	5755	1	36.658	Pass
		5795	1	36.753	Pass
802.11ac (VHT80)	SISO	5775	1	76.116	Pass

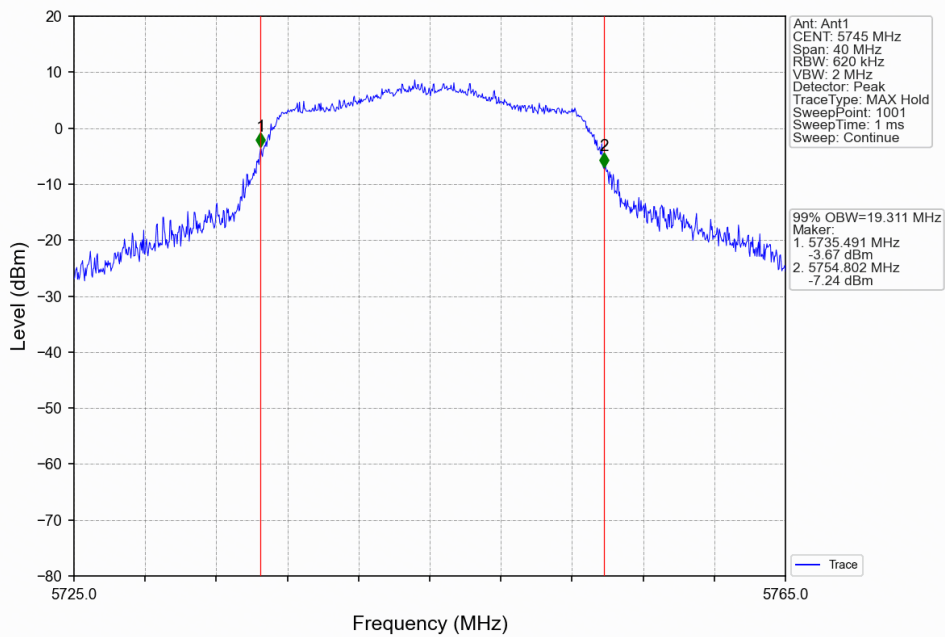
## 2.1.2 Test Graph



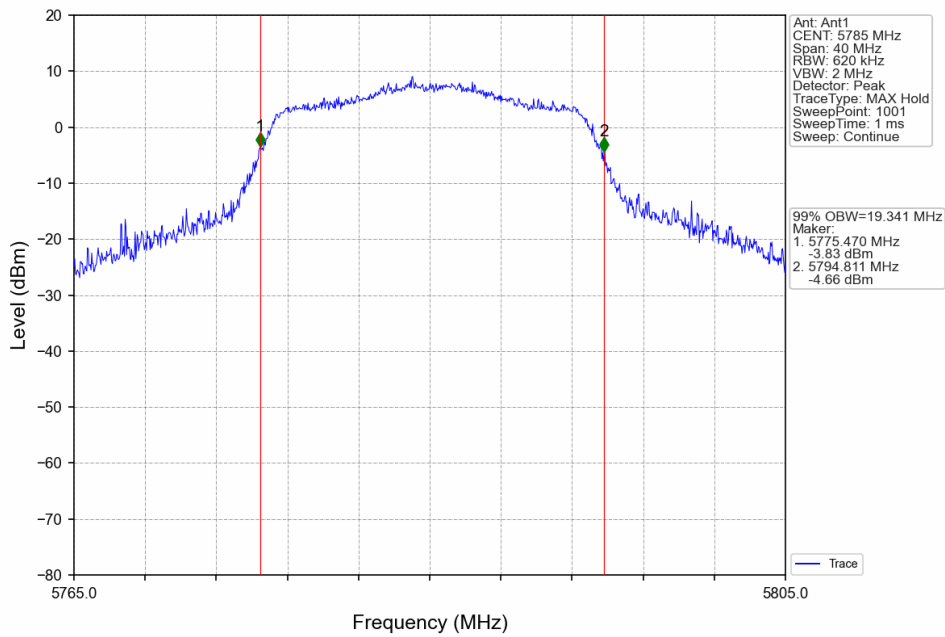
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



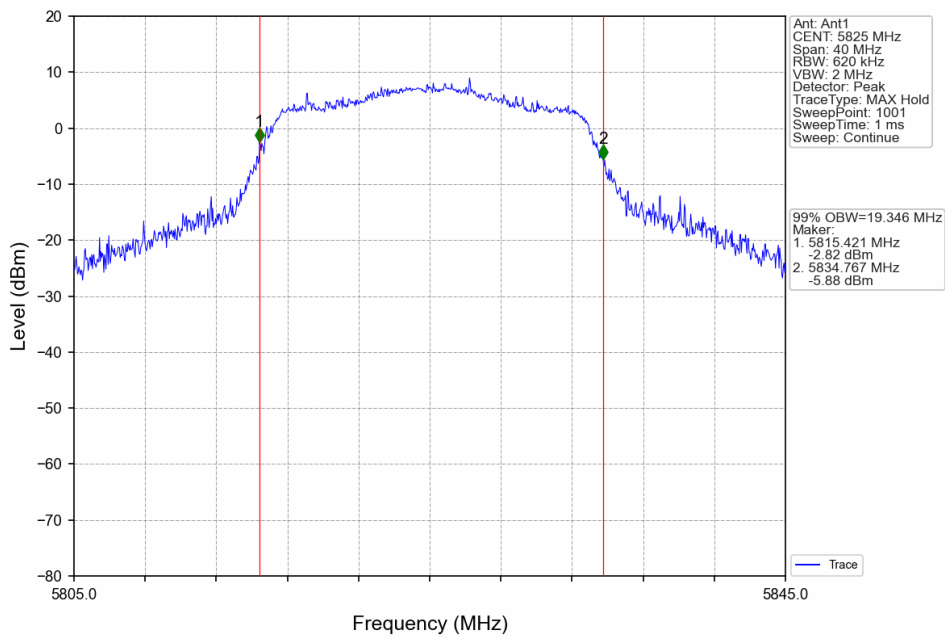
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



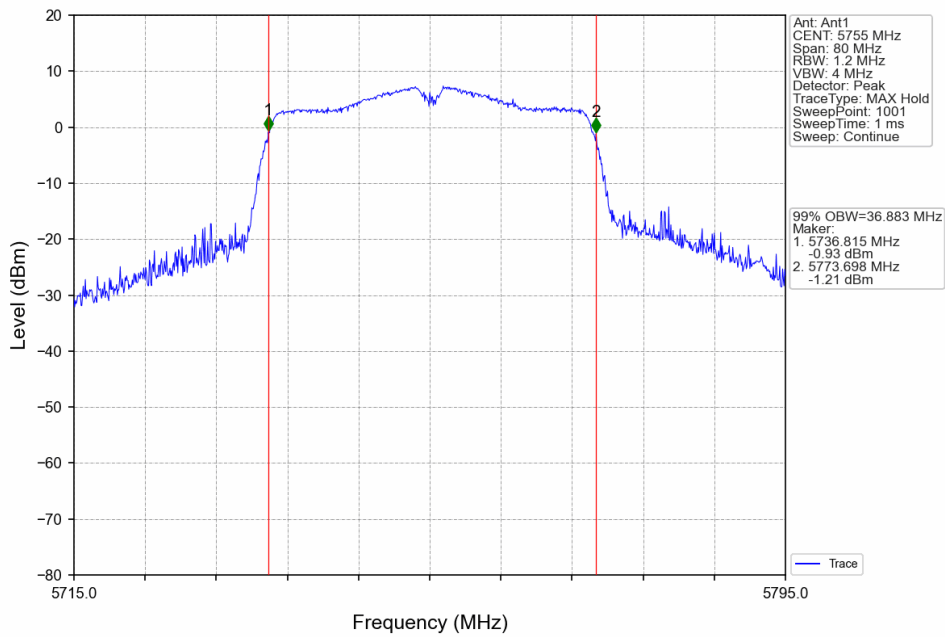
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



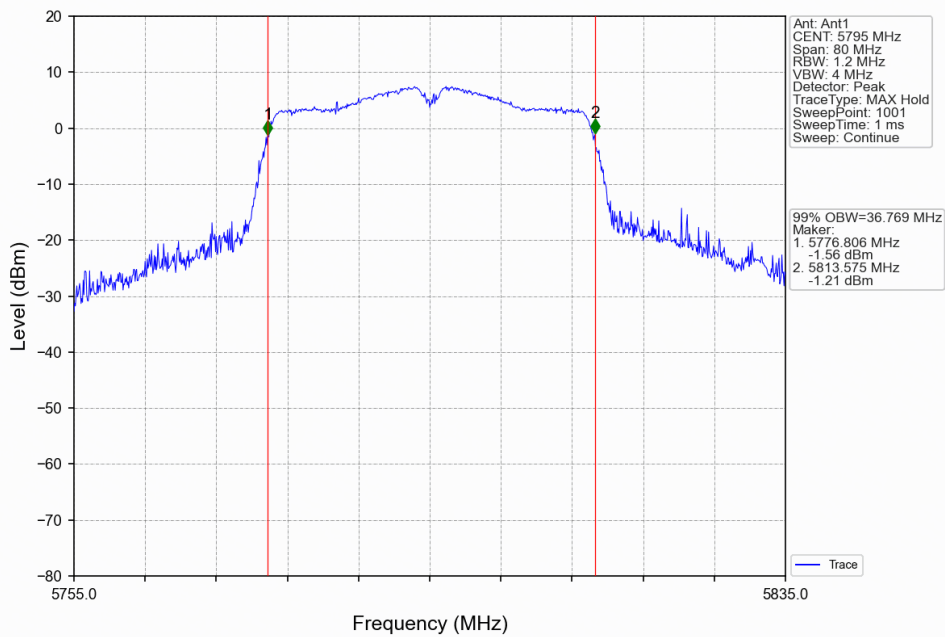
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



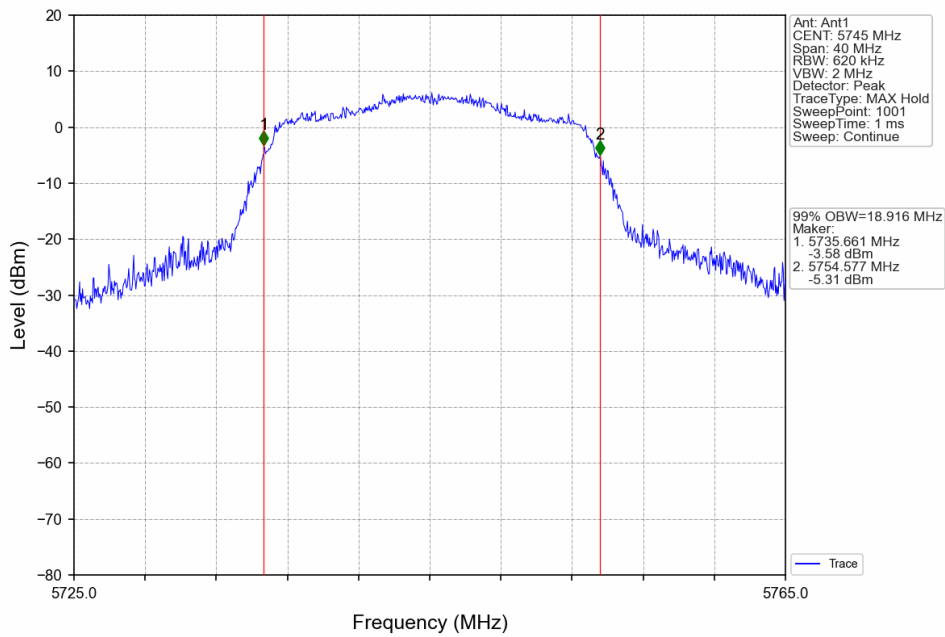
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



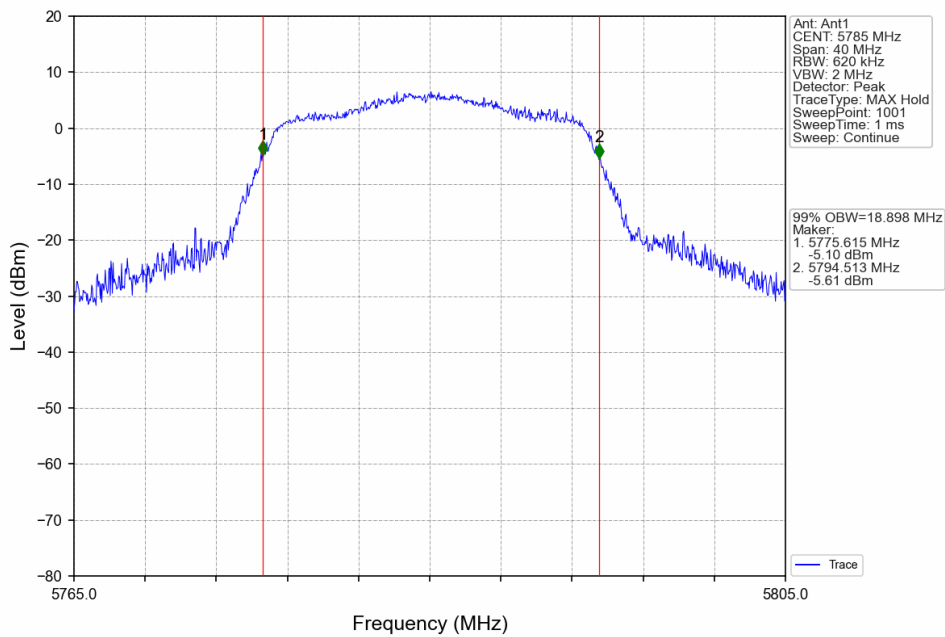
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



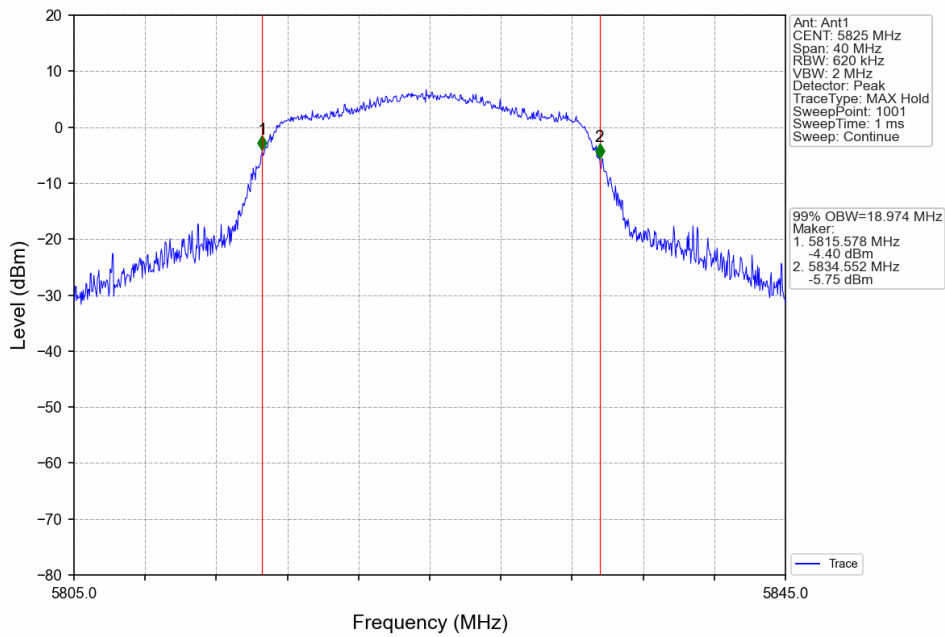
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



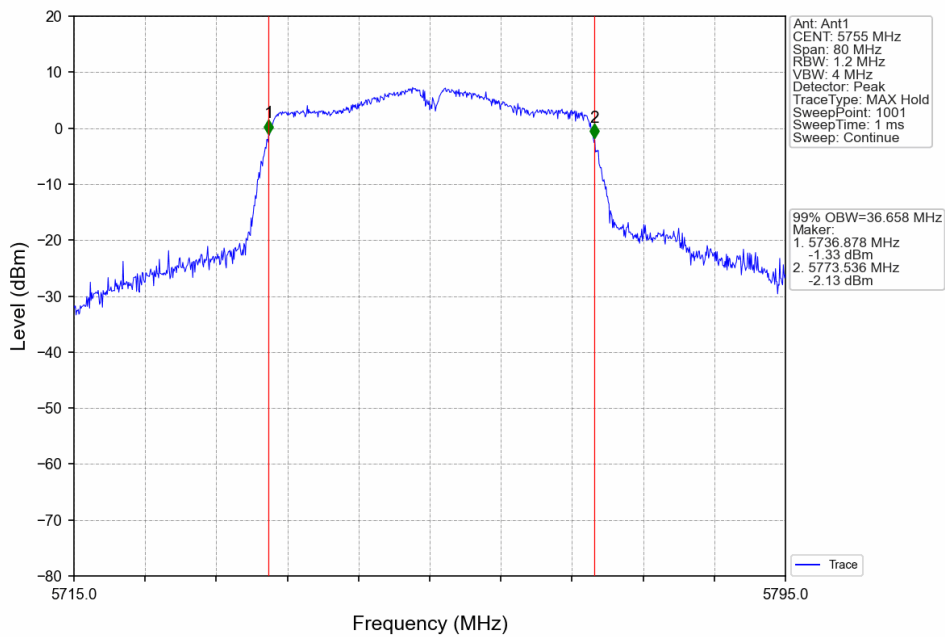
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



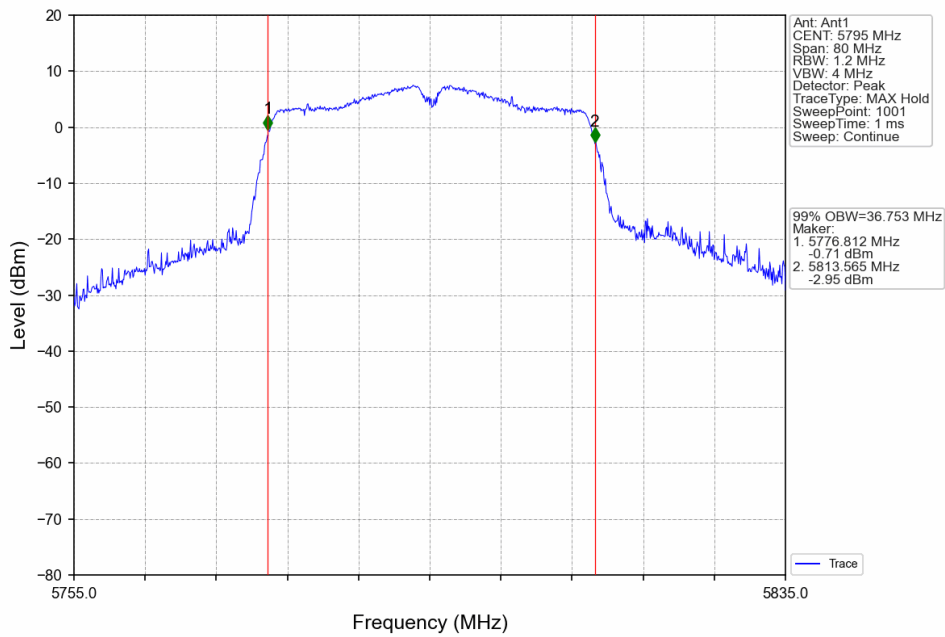
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



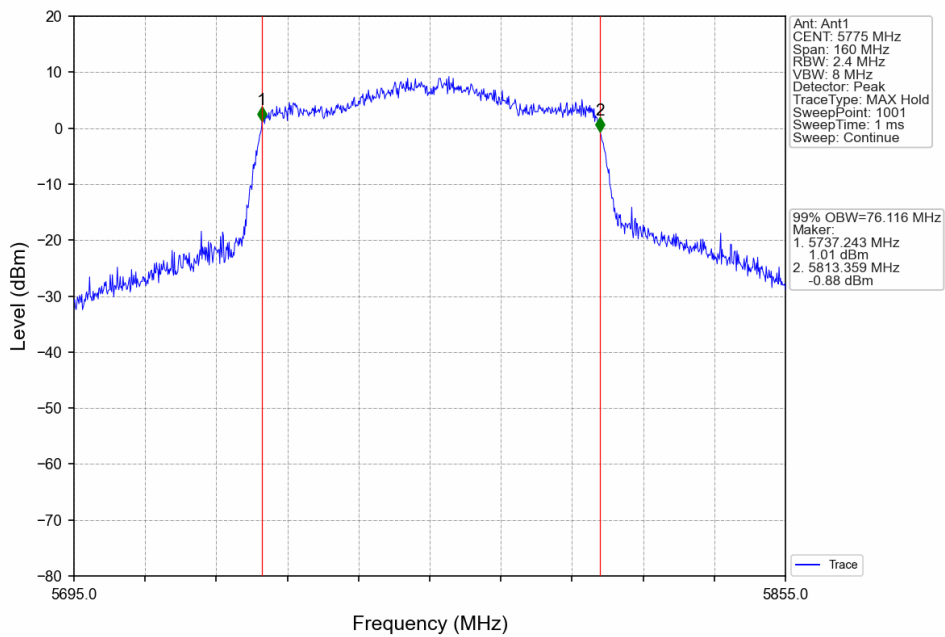
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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



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



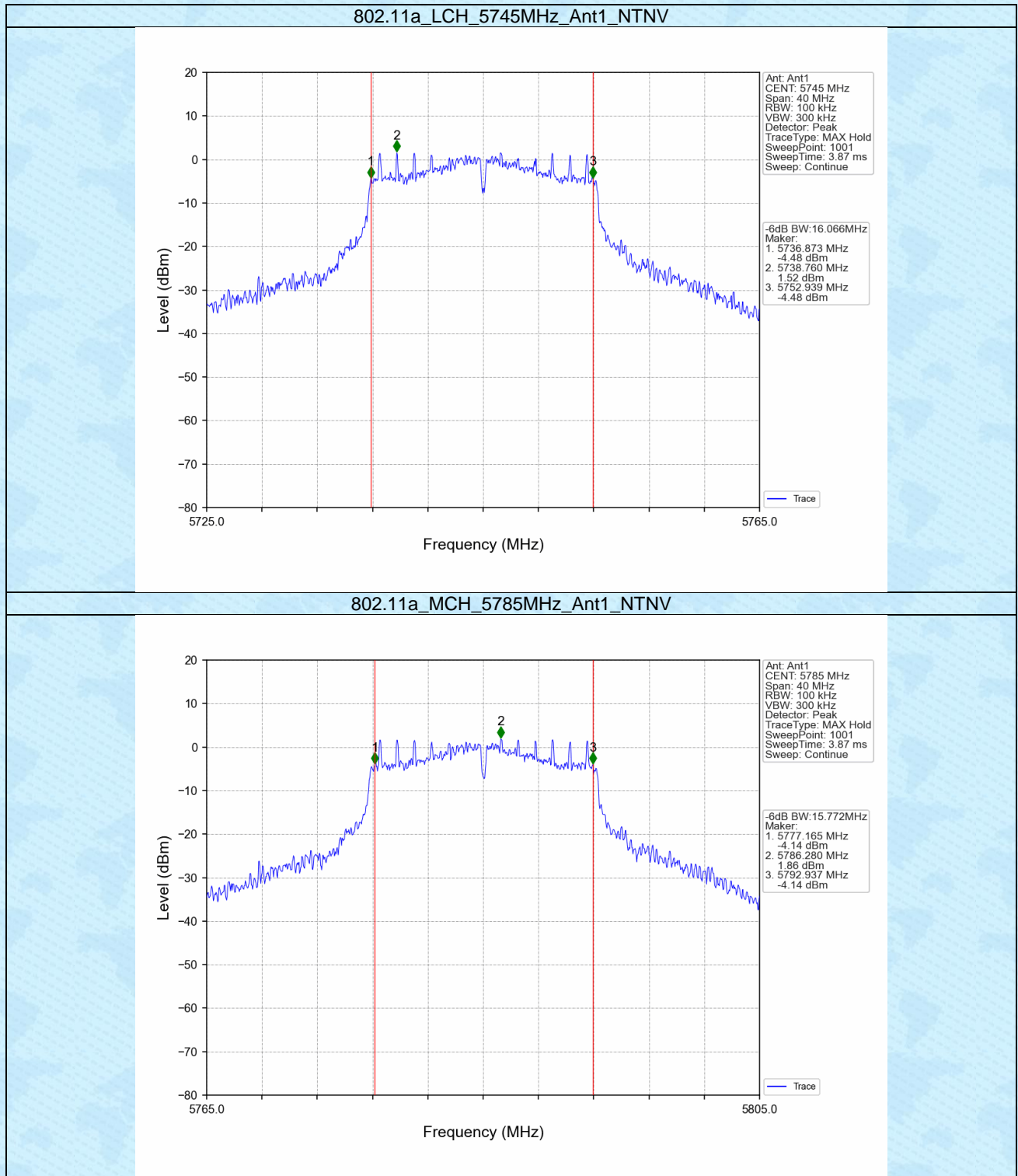


## 2.2 6dB BW

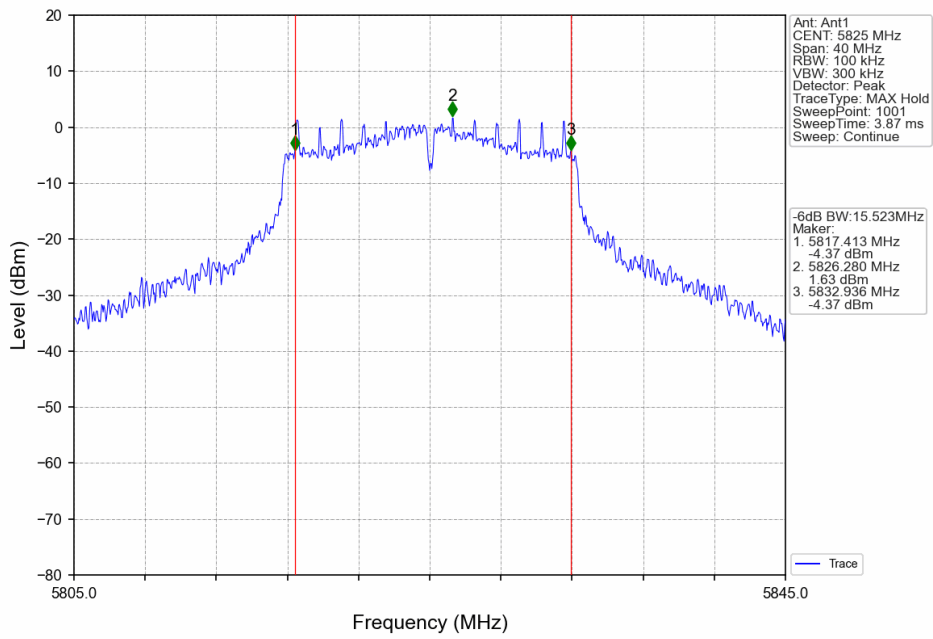
### 2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.066	>=0.5	Pass
		5785	1	15.772	>=0.5	Pass
		5825	1	15.523	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	15.236	>=0.5	Pass
		5785	1	15.680	>=0.5	Pass
		5825	1	15.774	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	35.492	>=0.5	Pass
		5795	1	35.253	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	16.197	>=0.5	Pass
		5785	1	16.851	>=0.5	Pass
		5825	1	16.891	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.408	>=0.5	Pass
		5795	1	35.257	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.237	>=0.5	Pass

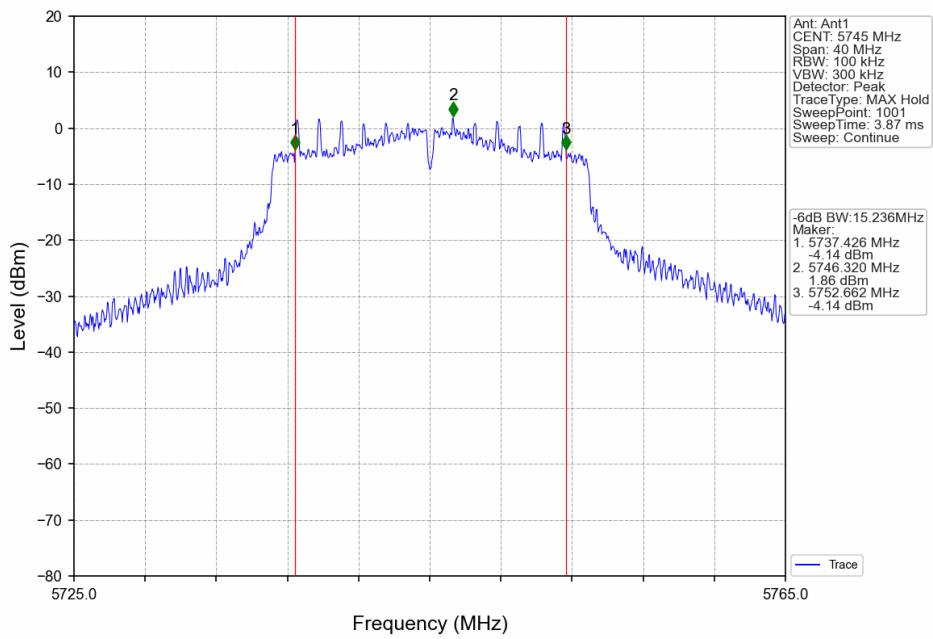
## 2.2.2 Test Graph



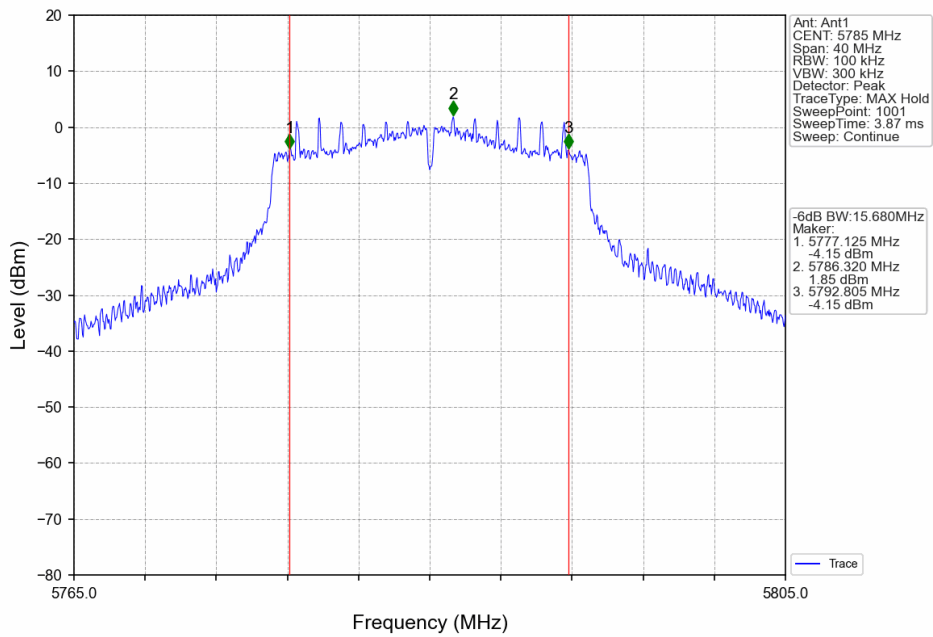
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



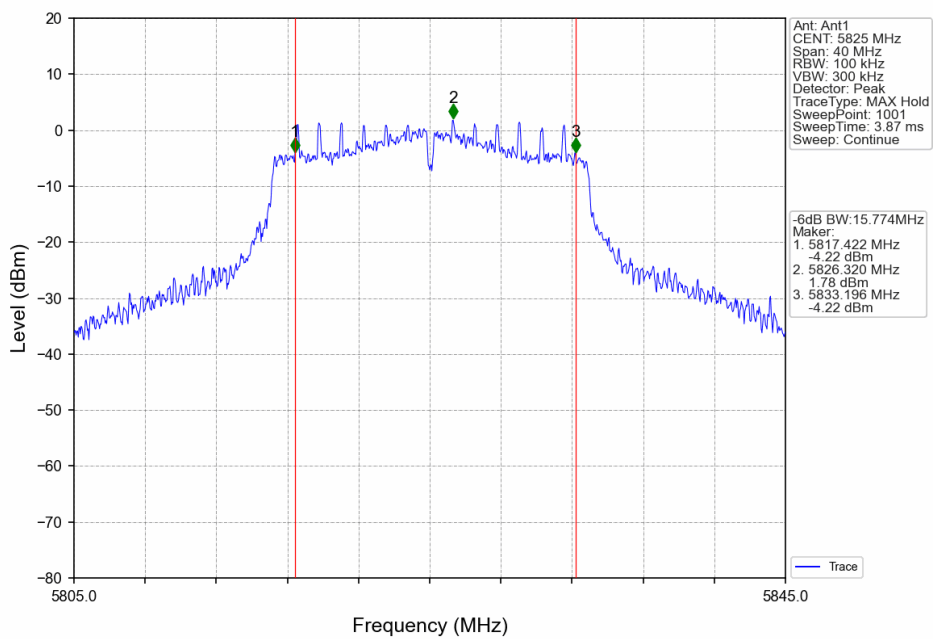
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



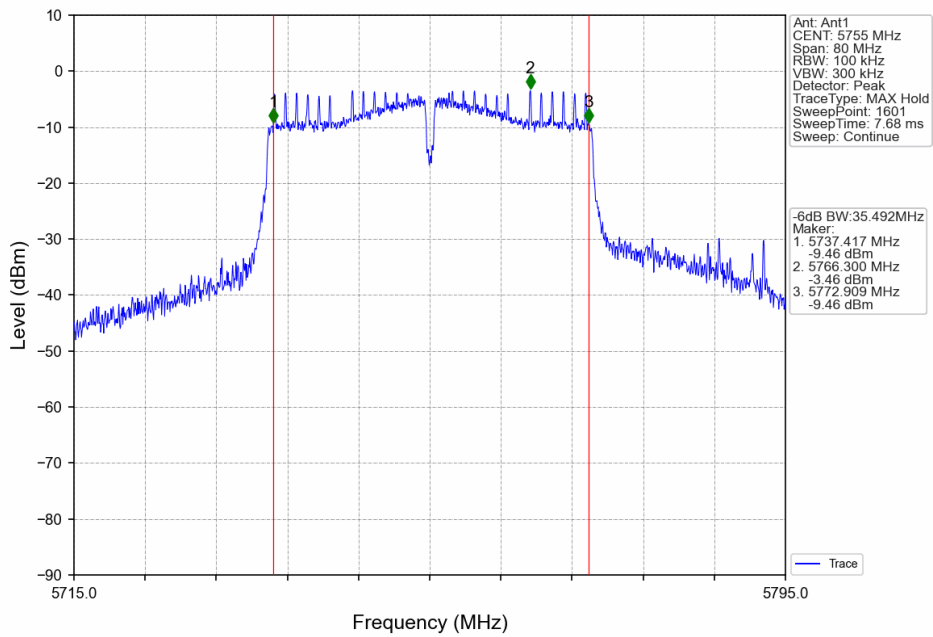
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



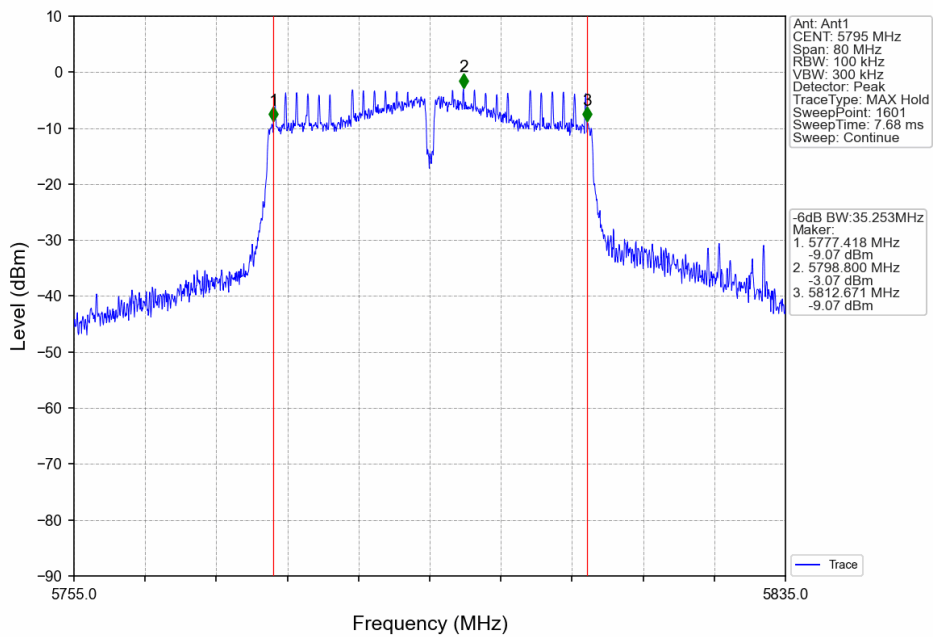
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



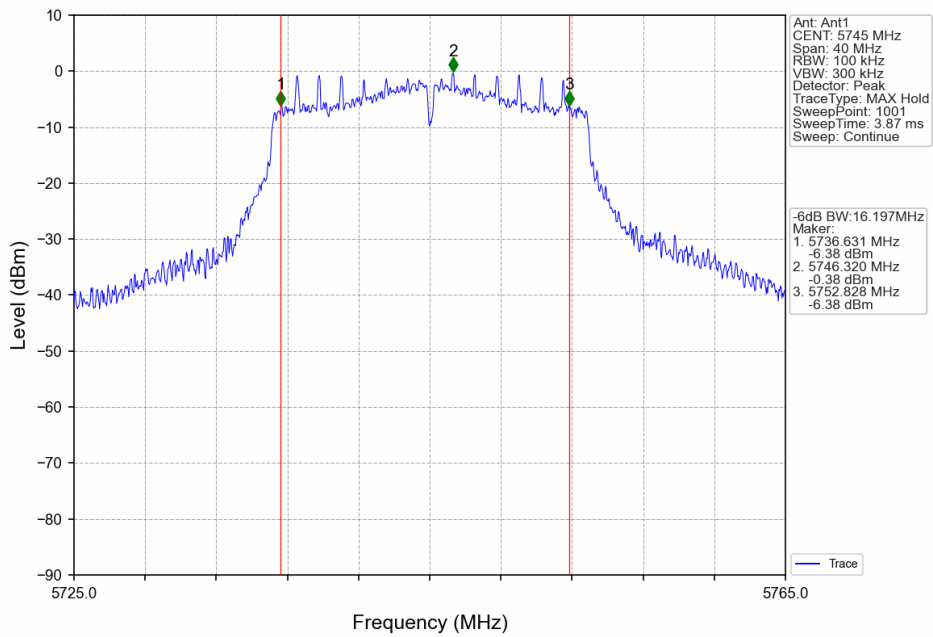
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



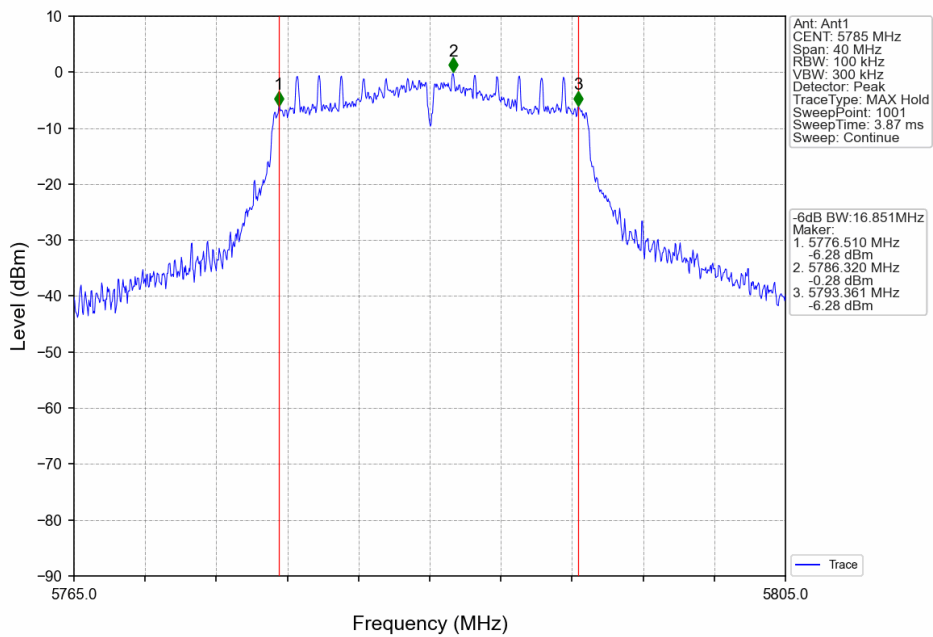
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



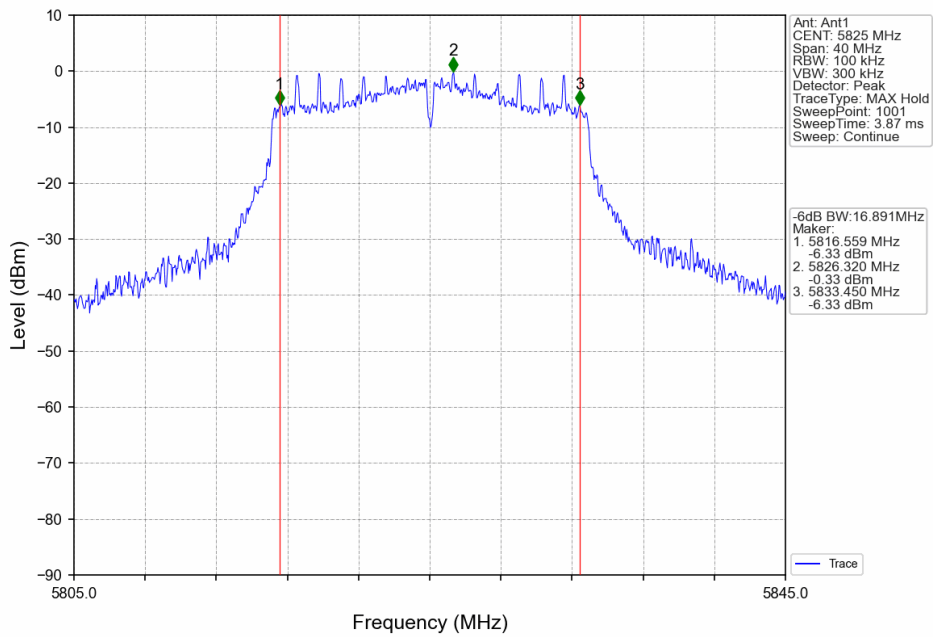
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



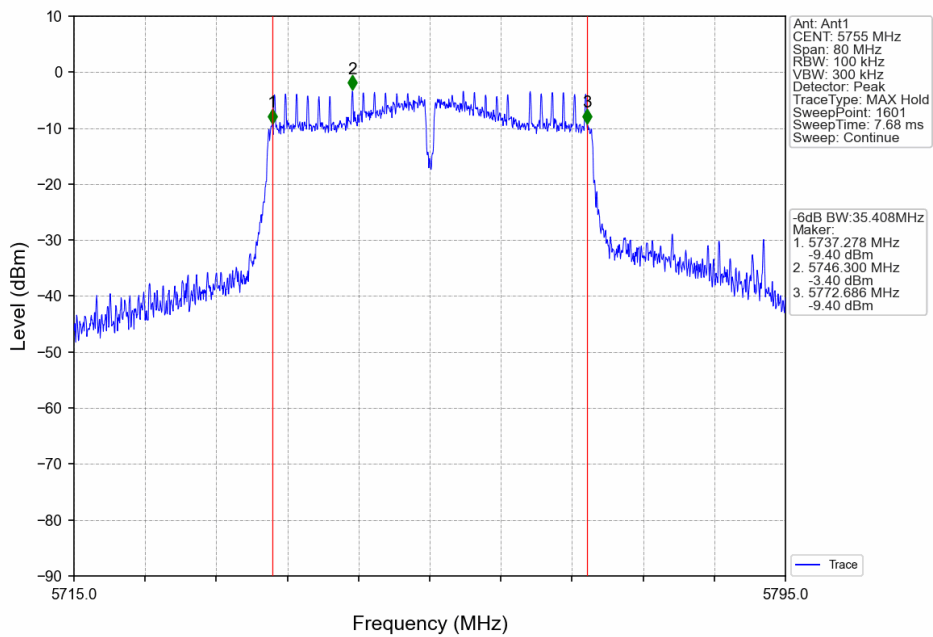
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



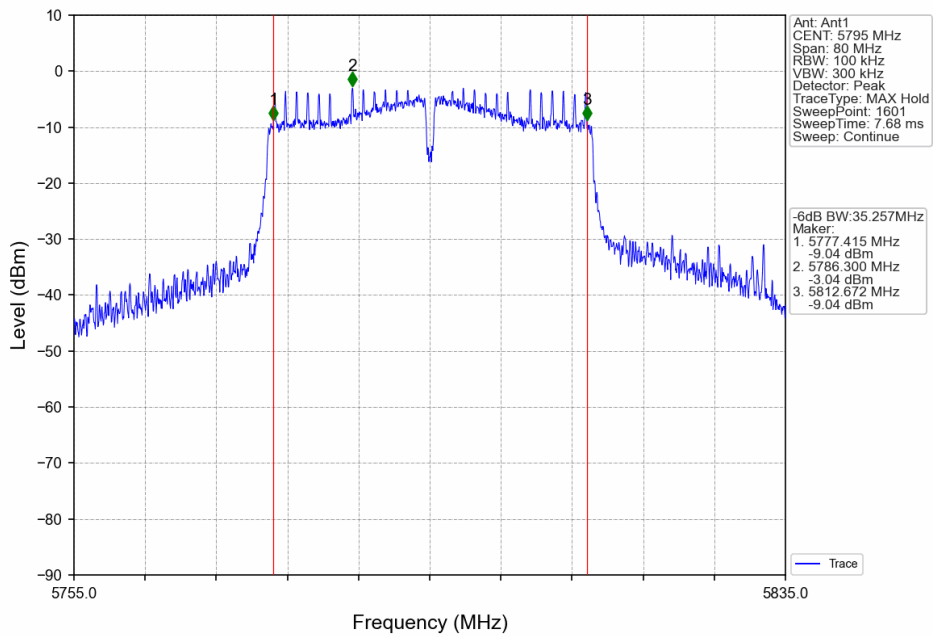
802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



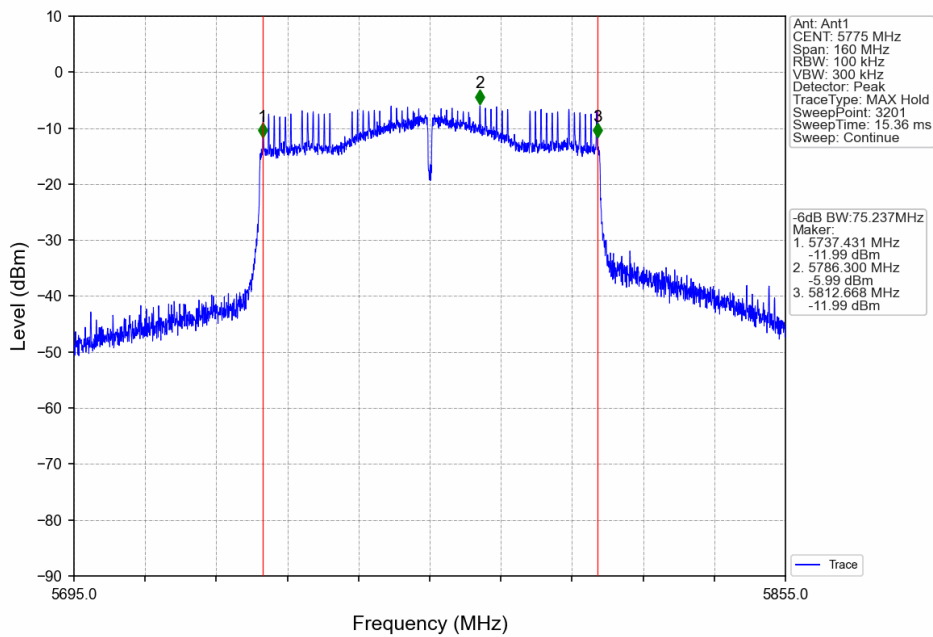
802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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



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





## 3. Maximum Conducted Output Power

### 3.1 Test Result

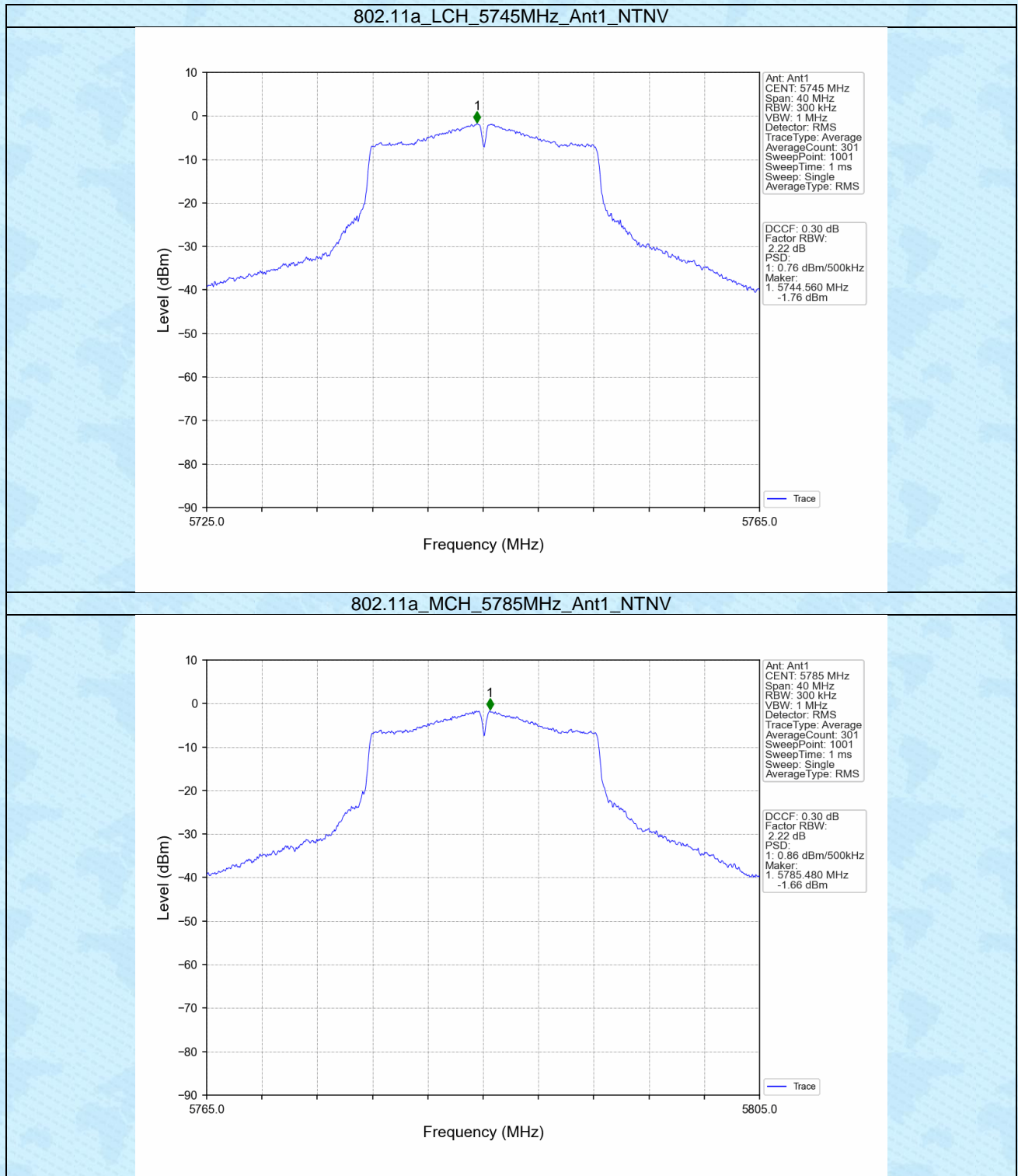
Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	12.79	<=30	Pass
		5785	12.84	<=30	Pass
		5825	12.59	<=30	Pass
802.11n (HT20)	SISO	5745	12.41	<=30	Pass
		5785	12.49	<=30	Pass
		5825	12.35	<=30	Pass
802.11n (HT40)	SISO	5755	10.48	<=30	Pass
		5795	10.72	<=30	Pass
802.11ac (VHT20)	SISO	5745	10.43	<=30	Pass
		5785	10.54	<=30	Pass
		5825	10.55	<=30	Pass
802.11ac (VHT40)	SISO	5755	10.52	<=30	Pass
		5795	10.74	<=30	Pass
802.11ac (VHT80)	SISO	5775	10.11	<=30	Pass

## 4. Maximum Power Spectral Density

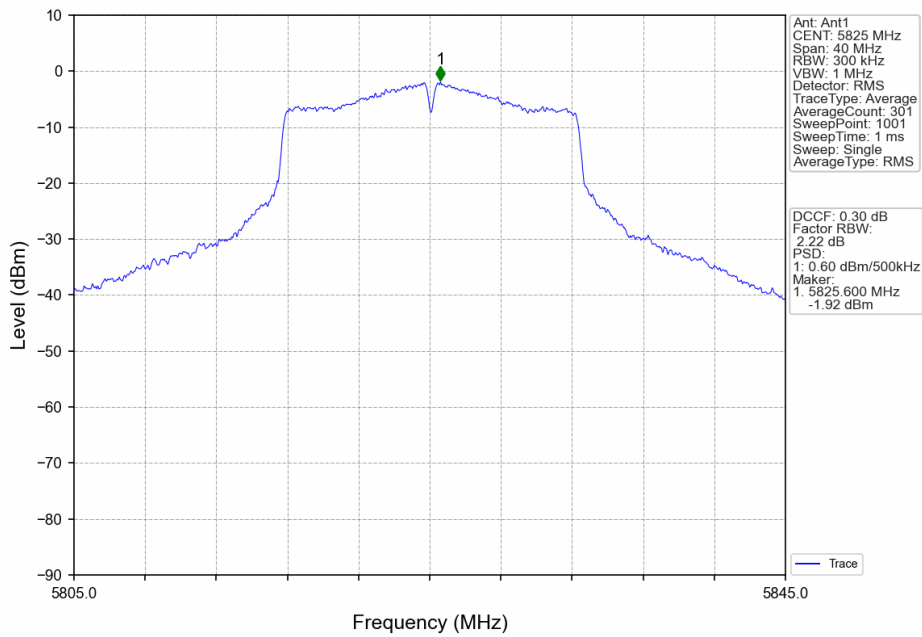
### 4.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	0.76	<=30	Pass
		5785	0.86	<=30	Pass
		5825	0.60	<=30	Pass
802.11n (HT20)	SISO	5745	0.08	<=30	Pass
		5785	0.05	<=30	Pass
		5825	0.12	<=30	Pass
802.11n (HT40)	SISO	5755	-5.09	<=30	Pass
		5795	-4.65	<=30	Pass
802.11ac (VHT20)	SISO	5745	-1.67	<=30	Pass
		5785	-1.51	<=30	Pass
		5825	-1.71	<=30	Pass
802.11ac (VHT40)	SISO	5755	-4.90	<=30	Pass
		5795	-4.61	<=30	Pass
802.11ac (VHT80)	SISO	5775	-7.76	<=30	Pass

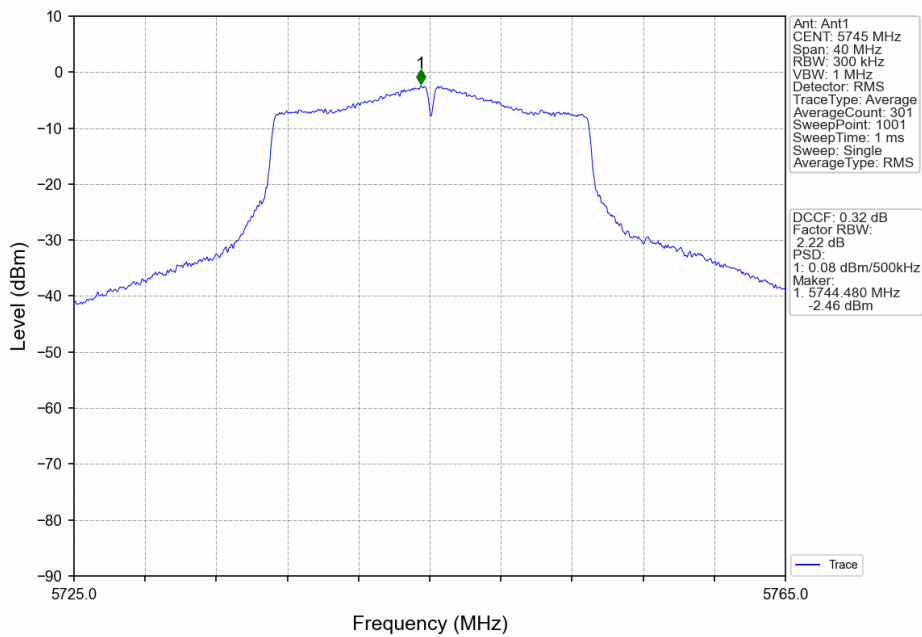
## 4.2 Test Graph



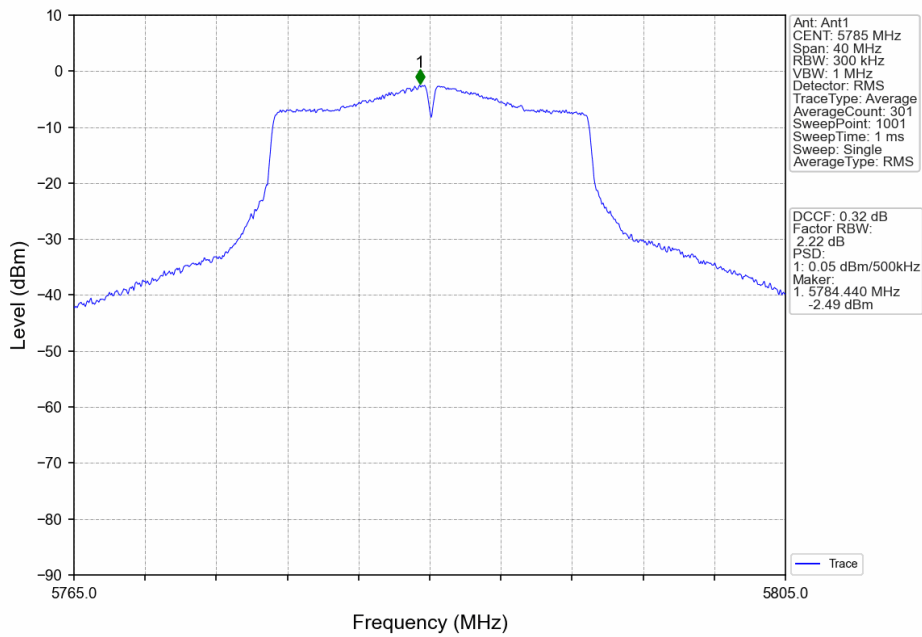
802.11a\_HCH\_5825MHz\_Ant1\_NTNV



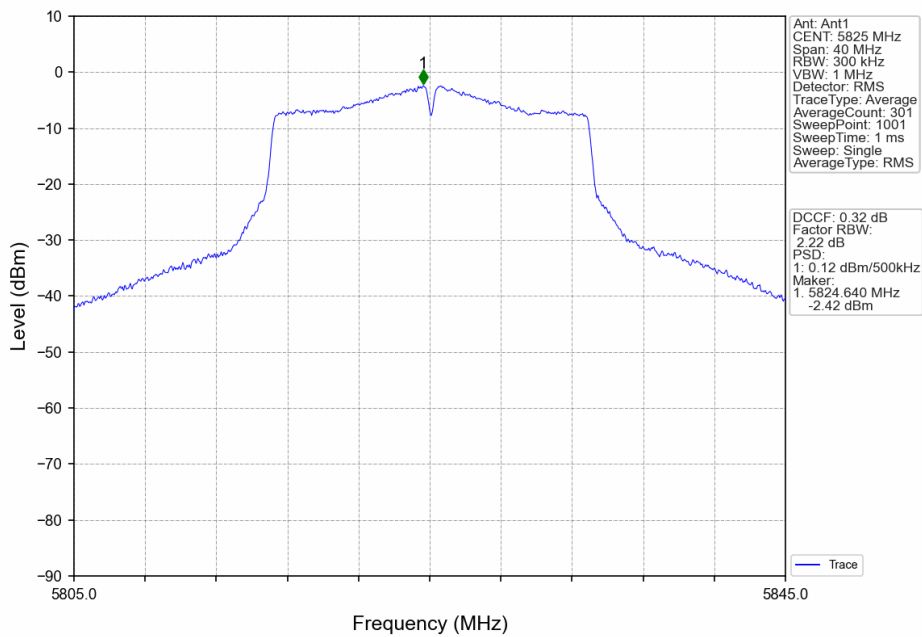
802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



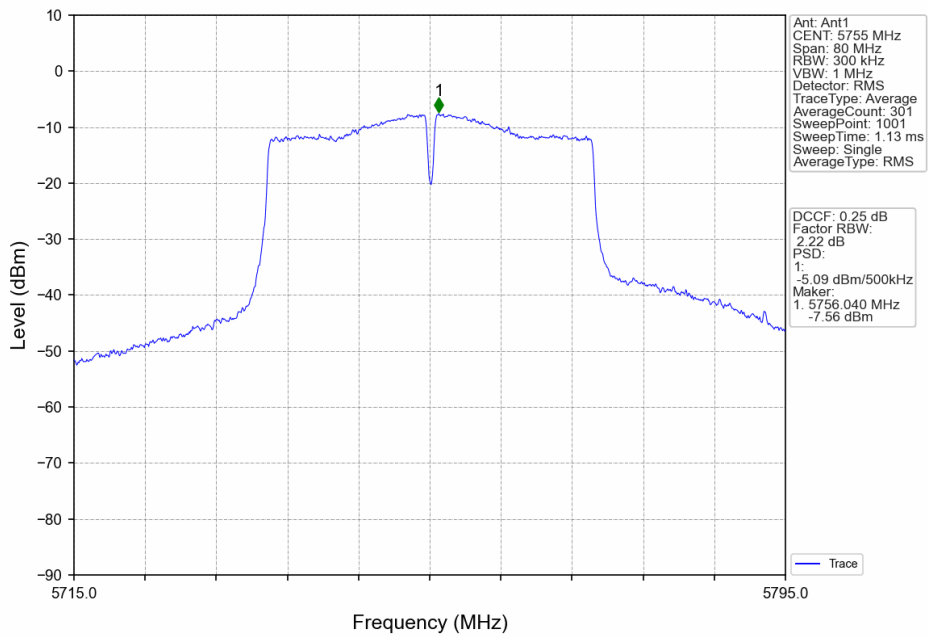
802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



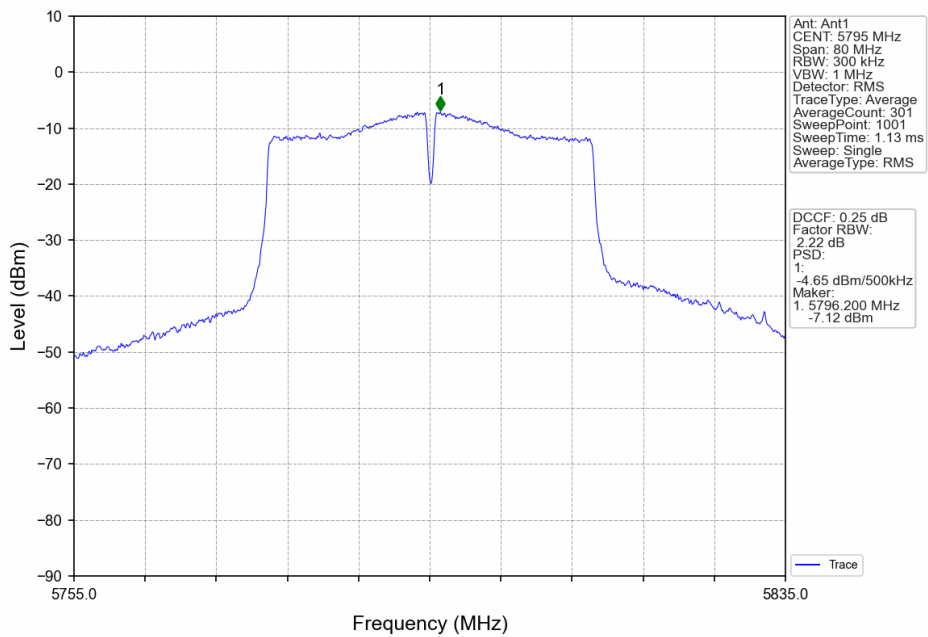
802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



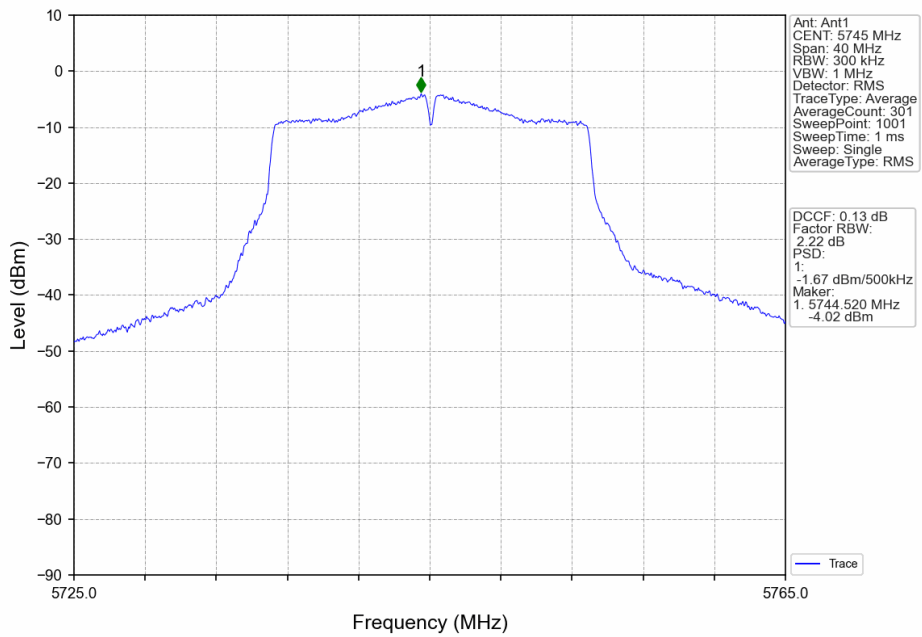
802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



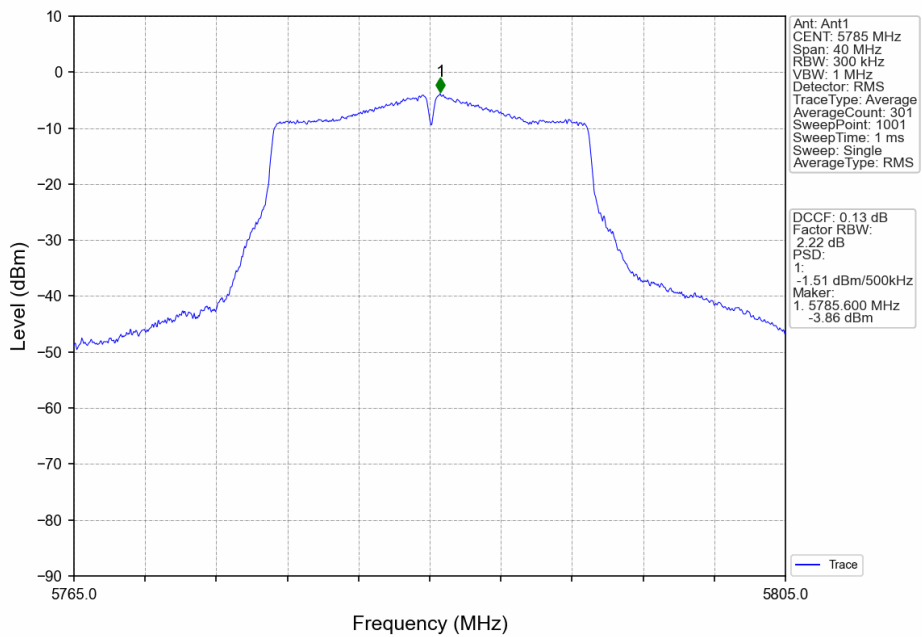
802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



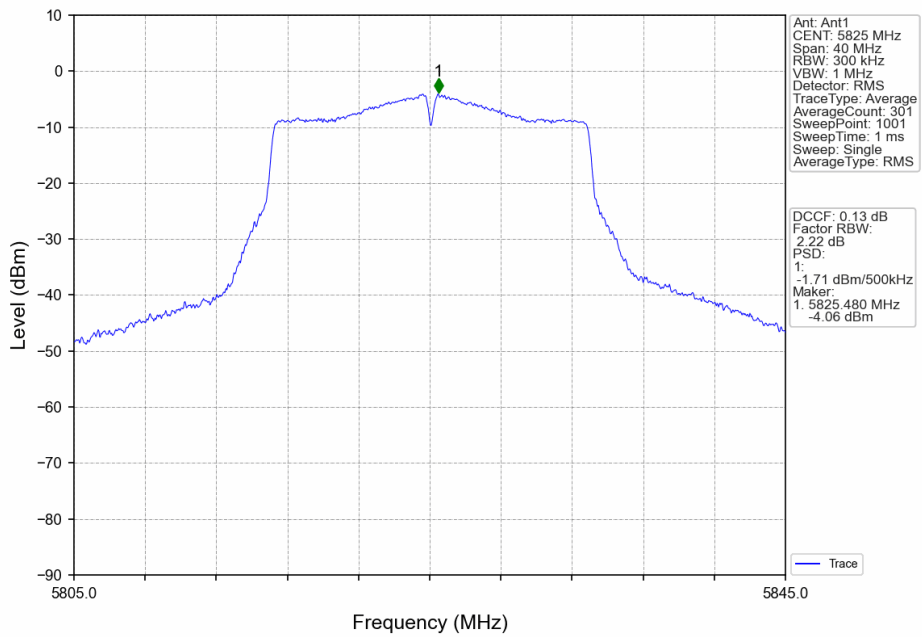
802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



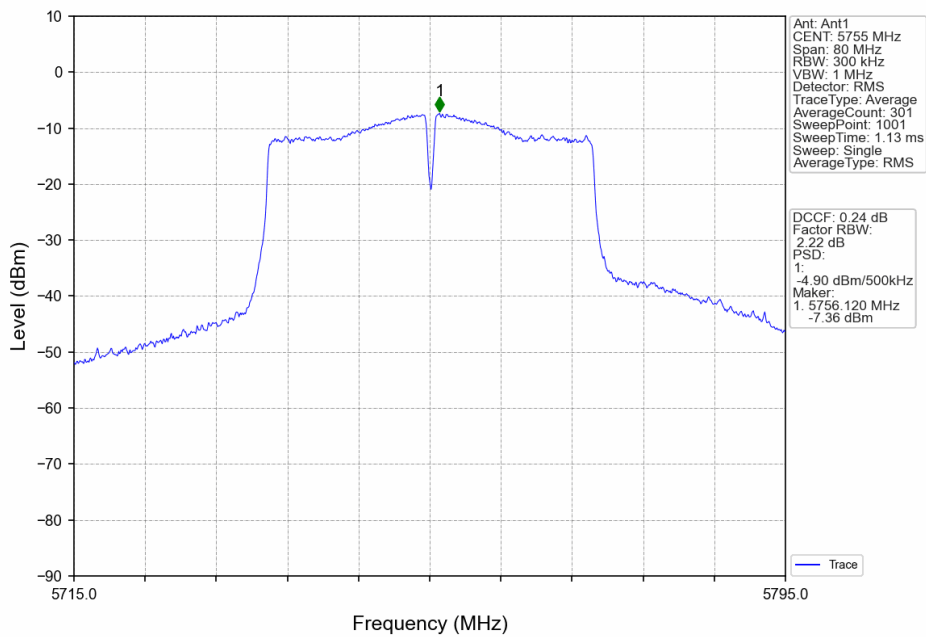
802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



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

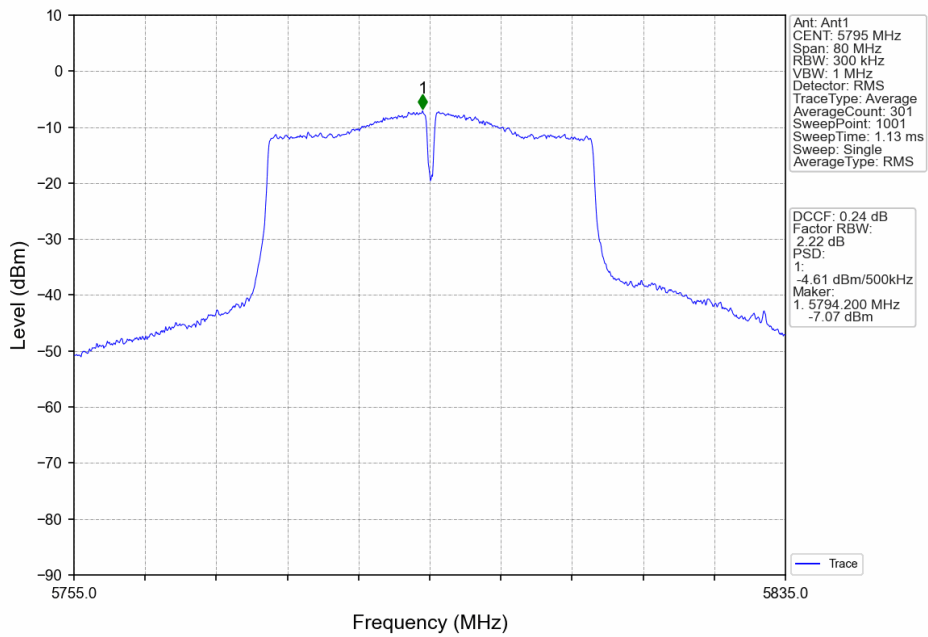


802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV

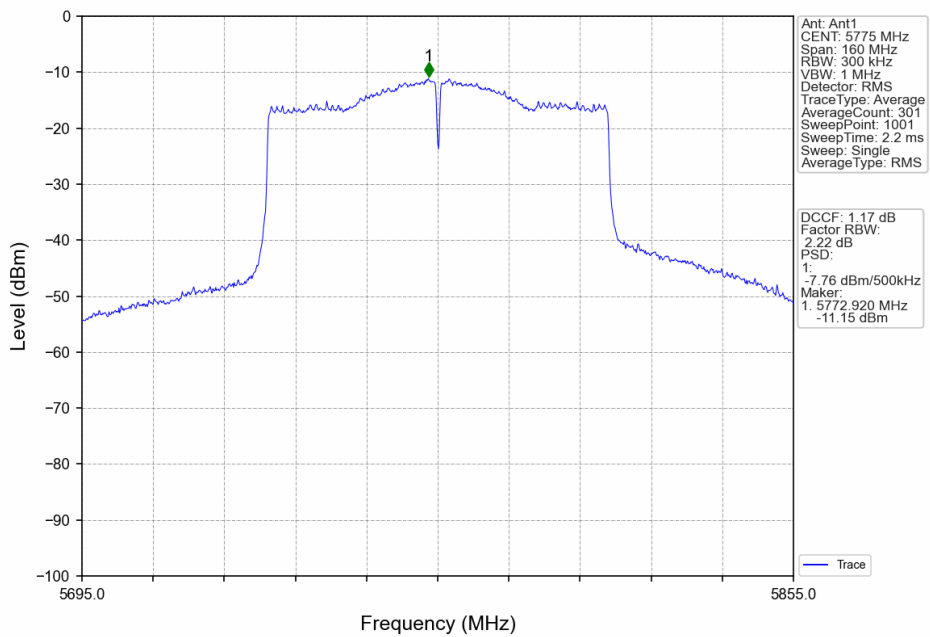




802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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



## 5. Frequency Stability

### 5.1 Test Result

Mode	TX Type	Frequency (MHz)	Temperature (°C)	Ant1			Verdict	
				Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)		
Carrier Wave	SISO	5745	20	102	5745.026	5725 to 5850	Pass	
				120	5745.025	5725 to 5850	Pass	
				138	5745.024	5725 to 5850	Pass	
			-30	120	5745.024	5725 to 5850	Pass	
				-20	120	5745.023	5725 to 5850	Pass
					120	5745.023	5725 to 5850	Pass
			0	120	5745.022	5725 to 5850	Pass	
				10	120	5745.022	5725 to 5850	Pass
				30	120	5745.022	5725 to 5850	Pass
		40	120	5745.021	5725 to 5850	Pass		
			50	120	5745.021	5725 to 5850	Pass	
				120	5745.021	5725 to 5850	Pass	
		5785		20	102	5785.018	5725 to 5850	Pass
			120		5785.018	5725 to 5850	Pass	
			138		5785.018	5725 to 5850	Pass	
			-30	120	5785.018	5725 to 5850	Pass	
				-20	120	5785.018	5725 to 5850	Pass
					120	5785.018	5725 to 5850	Pass
			-10	120	5785.018	5725 to 5850	Pass	
				0	120	5785.018	5725 to 5850	Pass
				10	120	5785.018	5725 to 5850	Pass
		30	120	5785.018	5725 to 5850	Pass		
			40	120	5785.018	5725 to 5850	Pass	
				120	5785.018	5725 to 5850	Pass	
		5825		20	102	5825.017	5725 to 5850	Pass
			120		5825.017	5725 to 5850	Pass	
			138		5825.016	5725 to 5850	Pass	
			-30	120	5825.017	5725 to 5850	Pass	
				-20	120	5825.016	5725 to 5850	Pass
					120	5825.016	5725 to 5850	Pass
			-10	120	5825.016	5725 to 5850	Pass	
				0	120	5825.016	5725 to 5850	Pass
				10	120	5825.017	5725 to 5850	Pass
		30	120	5825.017	5725 to 5850	Pass		
			40	120	5825.017	5725 to 5850	Pass	
				120	5825.017	5725 to 5850	Pass	
		5755		20	102	5755.017	5725 to 5850	Pass
			120		5755.017	5725 to 5850	Pass	
			138		5755.017	5725 to 5850	Pass	
			-30	120	5755.017	5725 to 5850	Pass	
				-20	120	5755.017	5725 to 5850	Pass
					120	5755.017	5725 to 5850	Pass
			-10	120	5755.017	5725 to 5850	Pass	
				0	120	5755.017	5725 to 5850	Pass
				10	120	5755.017	5725 to 5850	Pass
		30	120	5755.017	5725 to 5850	Pass		
			40	120	5755.017	5725 to 5850	Pass	
				120	5755.017	5725 to 5850	Pass	
5795	20	102		5795.017	5725 to 5850	Pass		
		120	5795.017	5725 to 5850	Pass			
		138	5795.017	5725 to 5850	Pass			
	-30	120	5795.017	5725 to 5850	Pass			
		-20	120	5795.017	5725 to 5850	Pass		
			120	5795.017	5725 to 5850	Pass		
	-10	120	5795.017	5725 to 5850	Pass			
		0	120	5795.017	5725 to 5850	Pass		
		10	120	5795.017	5725 to 5850	Pass		
30	120	5795.017	5725 to 5850	Pass				
	40	120	5795.017	5725 to 5850	Pass			
		120	5795.017	5725 to 5850	Pass			

			40	120	5795.017	5725 to 5850	Pass
			50	120	5795.017	5725 to 5850	Pass
		5775	20	102	5775.016	5725 to 5850	Pass
				120	5775.017	5725 to 5850	Pass
			138	5775.017	5725 to 5850	Pass	
			-30	120	5775.017	5725 to 5850	Pass
			-20	120	5775.017	5725 to 5850	Pass
			-10	120	5775.017	5725 to 5850	Pass
			0	120	5775.017	5725 to 5850	Pass
			10	120	5775.017	5725 to 5850	Pass
			30	120	5775.017	5725 to 5850	Pass
			40	120	5775.017	5725 to 5850	Pass
			50	120	5775.017	5725 to 5850	Pass

-----End-----