

Appendix : 5G Wi-Fi

Content

1. Duty Cycle	4
1.1 Test Result	4
1.1.1 Ant1	4
1.2 Test Graph	5
1.2.1 Ant1	5
2. Bandwidth	13
2.1 Test Result	13
2.1.1 OBW	13
2.1.2 6dB BW	13
2.2 Test Graph	14
2.2.1 OBW	14
2.2.2 6dB BW	22
3. Maximum Conducted Output Power	30
3.1 Test Result	30
3.1.1 Power	30
3.2 Test Graph	31
3.2.1 Power	31
4. Maximum Power Spectral Density	39
4.1 Test Result	39
4.1.1 PSD-Band3	39
4.2 Test Graph	40
4.2.1 PSD-Band3	40
5. Frequency Stability	48

5.1 Test Result 48

5.1.1 Ant1 48

6. Form731 51

6.1 Test Result 51

6.1.1 Form731 51

1. Duty Cycle

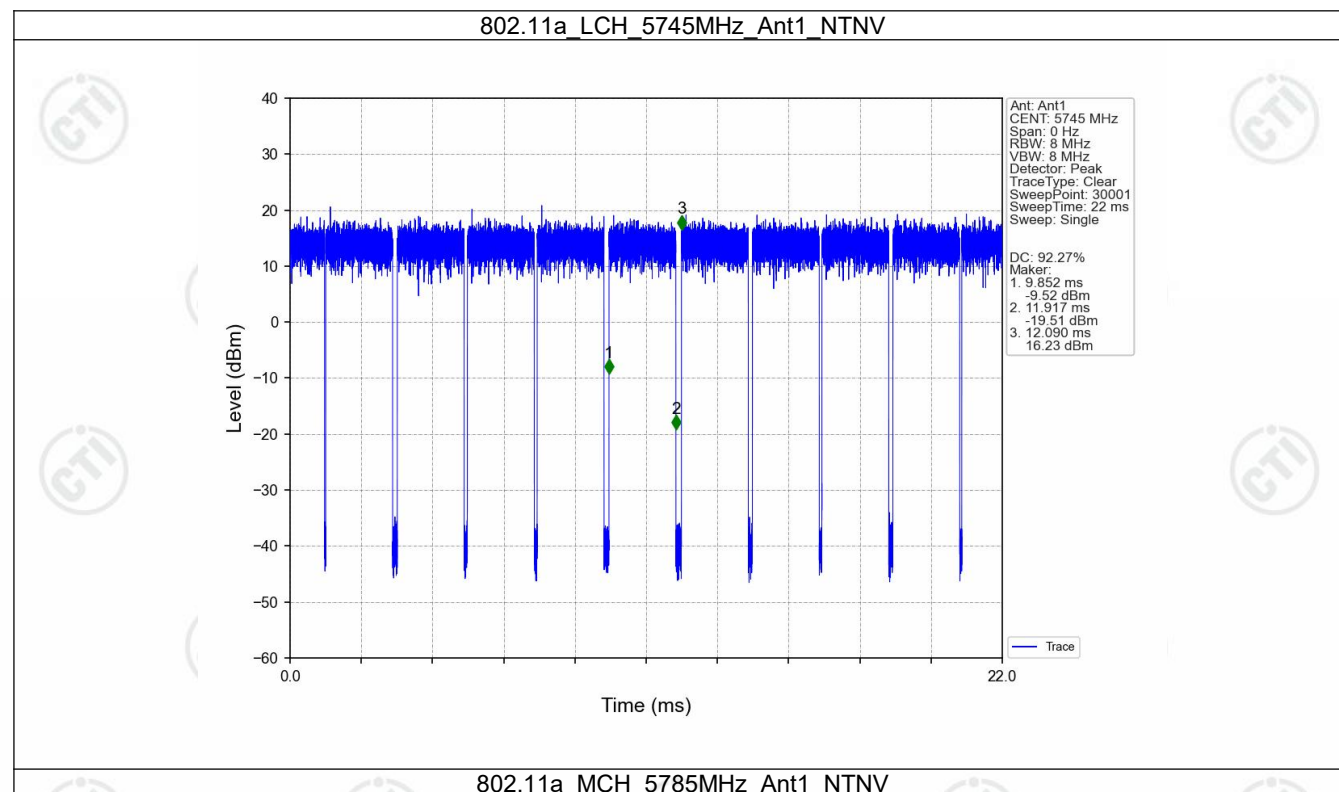
1.1 Test Result

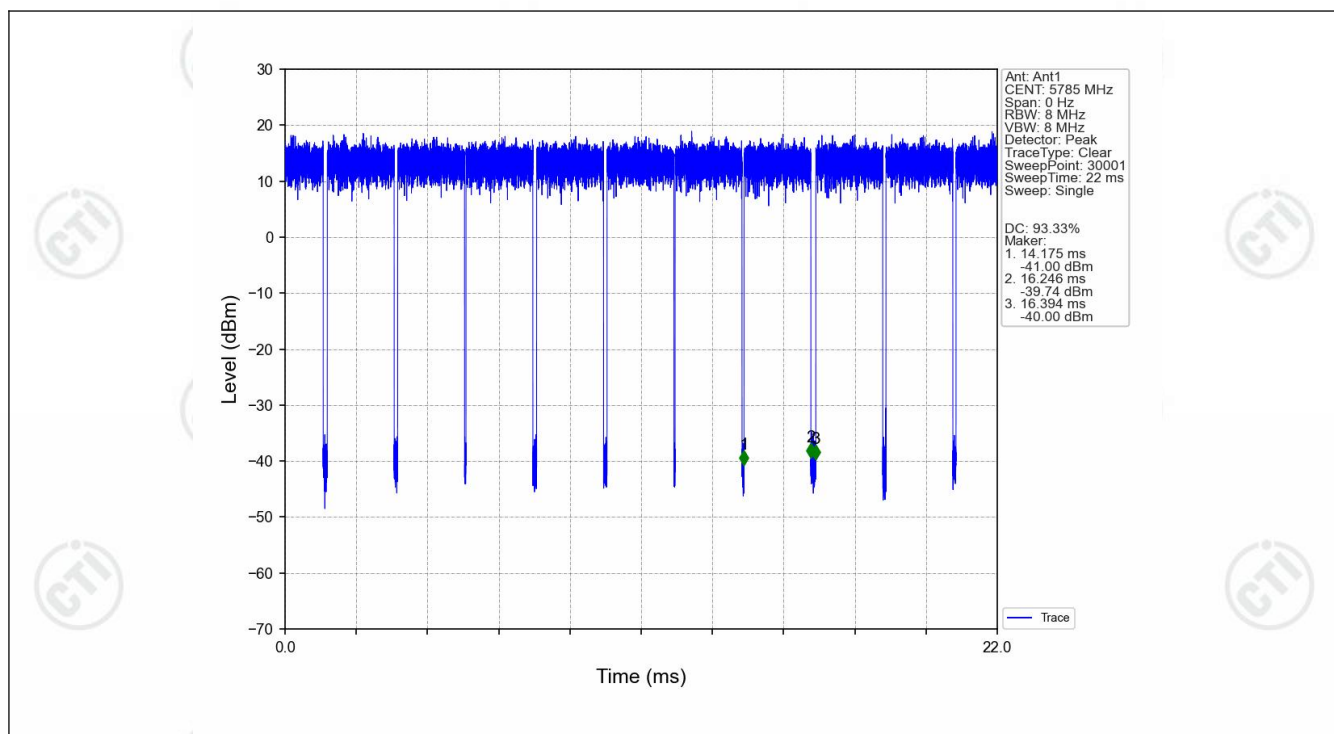
1.1.1 Ant1

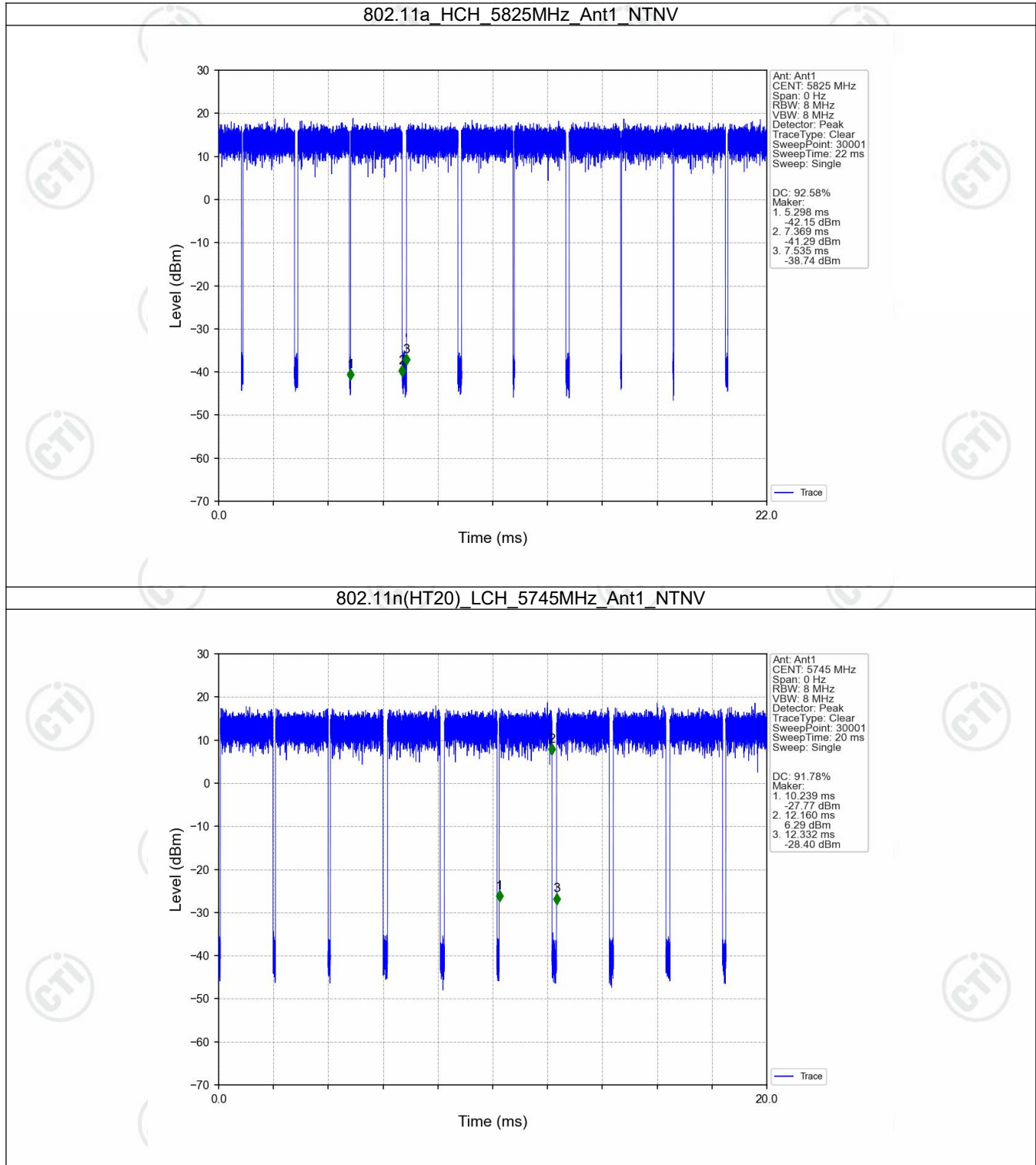
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5745	2.065	2.238	92.27	0.35	4.67
		5785	2.071	2.219	93.33	0.30	5.18
		5825	2.071	2.237	92.58	0.33	5.94
802.11n (HT20)	SISO	5745	1.921	2.093	91.78	0.37	4.16
		5785	1.920	2.084	92.13	0.36	5.50
		5825	1.927	2.093	92.07	0.36	5.87
802.11n (HT40)	SISO	5755	0.946	1.117	84.69	0.72	9.05
		5795	0.945	1.090	86.70	0.62	9.55
802.11ac (VHT20)	SISO	5745	1.938	2.104	92.11	0.36	6.35
		5785	1.938	2.087	92.86	0.32	5.10
		5825	1.933	2.088	92.58	0.33	5.55
802.11ac (VHT40)	SISO	5755	0.952	1.125	84.62	0.73	11.58
		5795	0.953	1.116	85.39	0.69	9.16

1.2 Test Graph

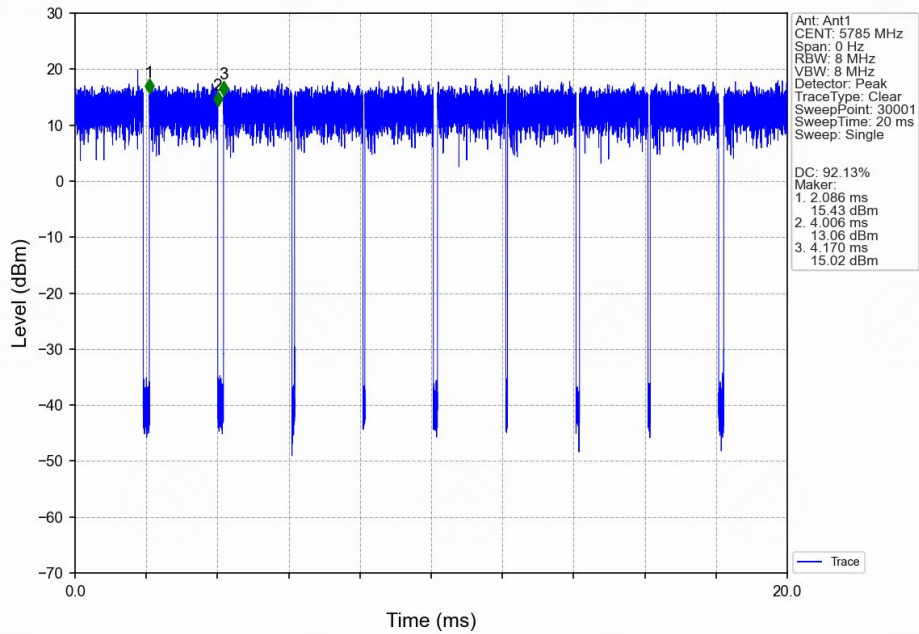
1.2.1 Ant1



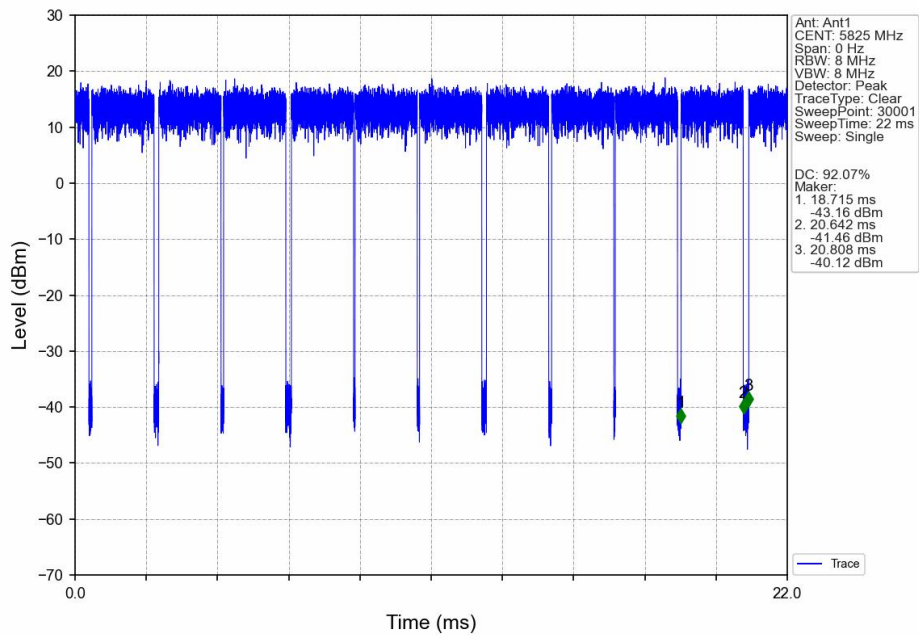




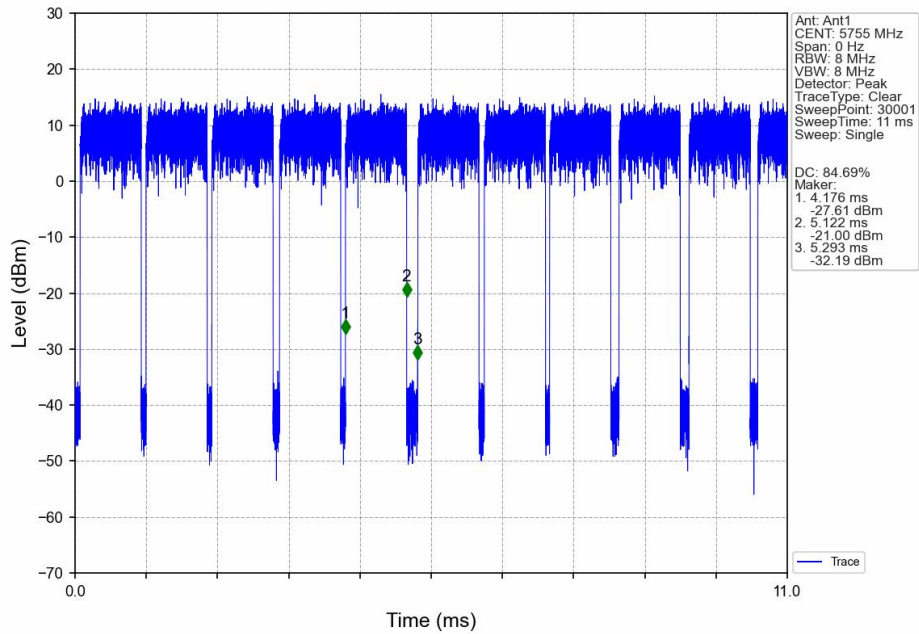
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



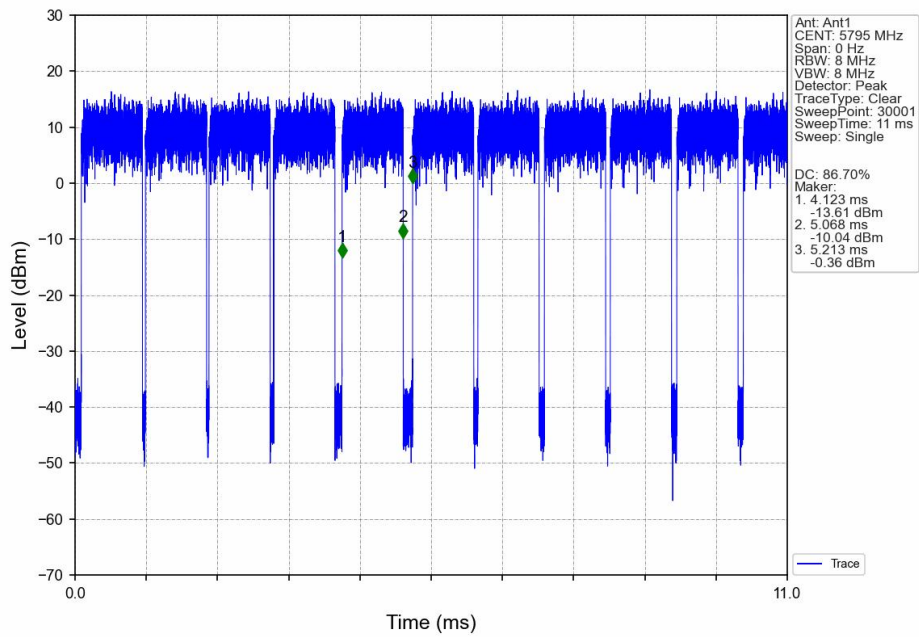
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



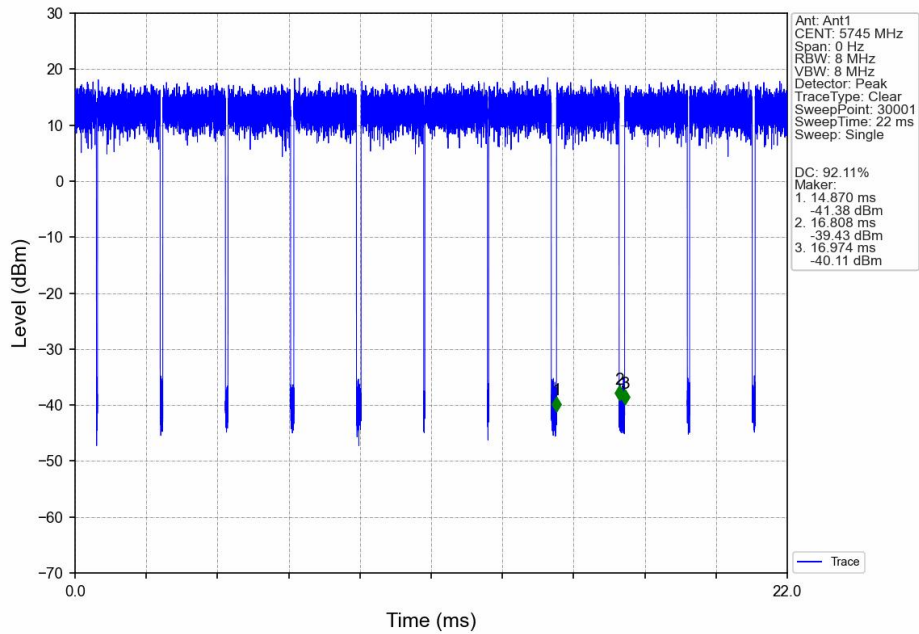
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



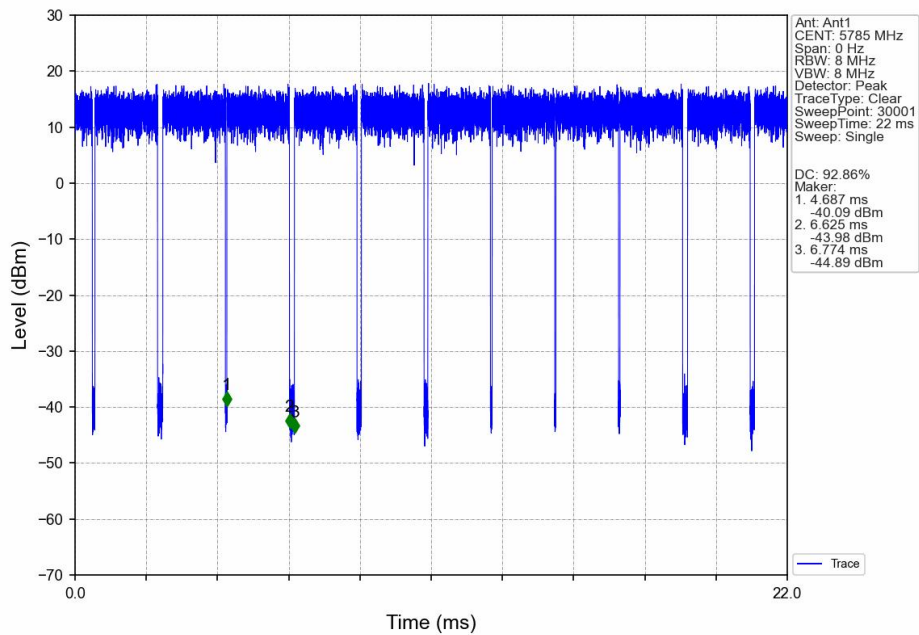
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



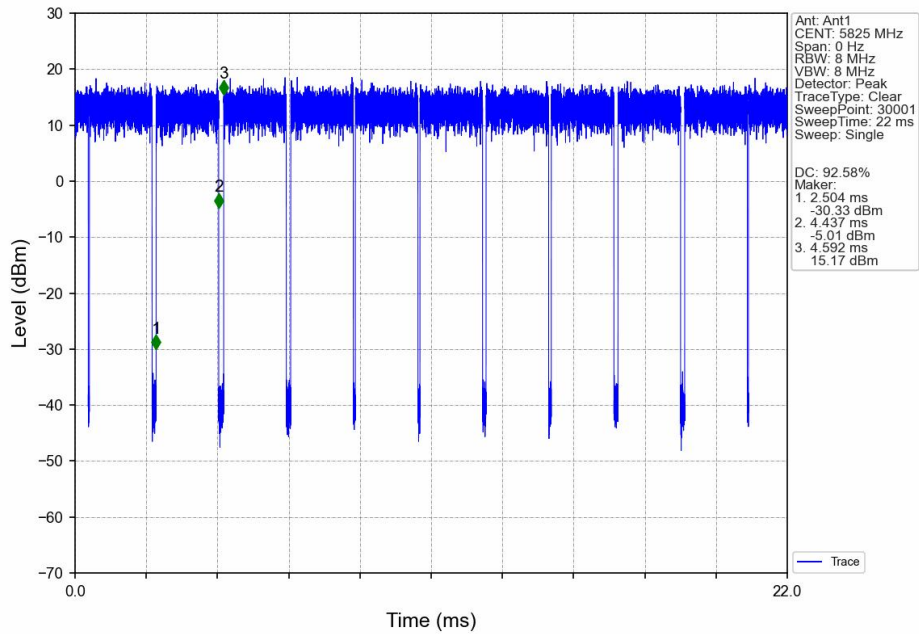
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



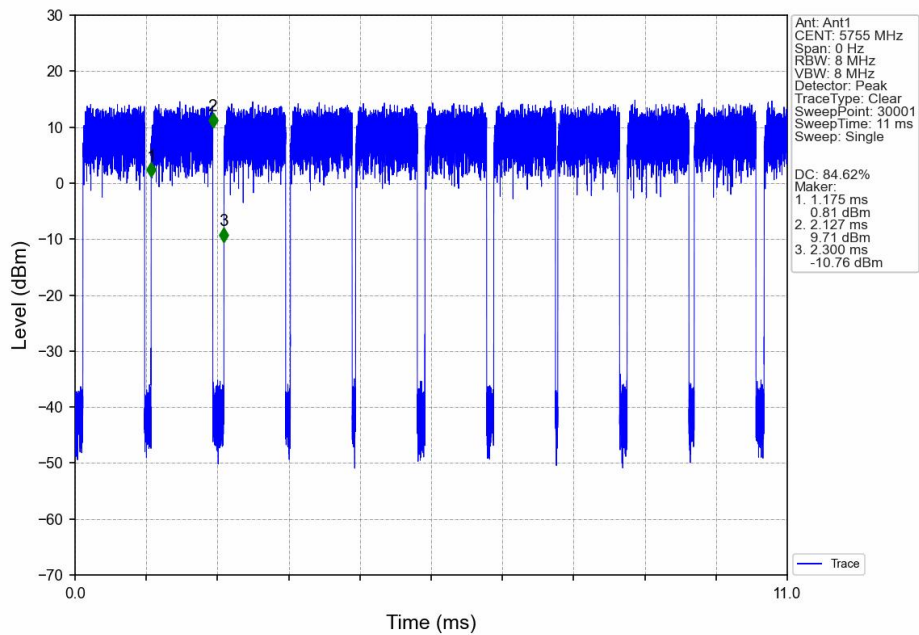
802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

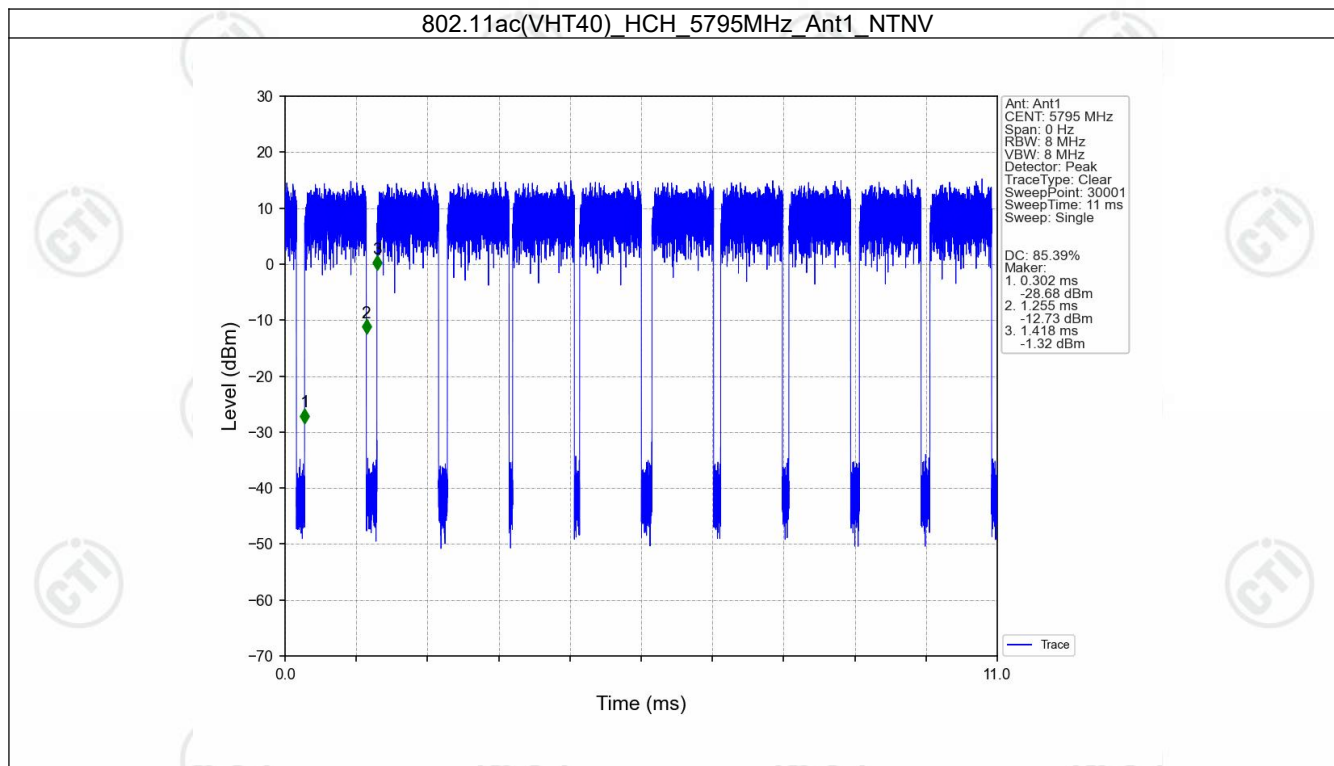


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV





2. Bandwidth

2.1 Test Result

2.1.1 OBW

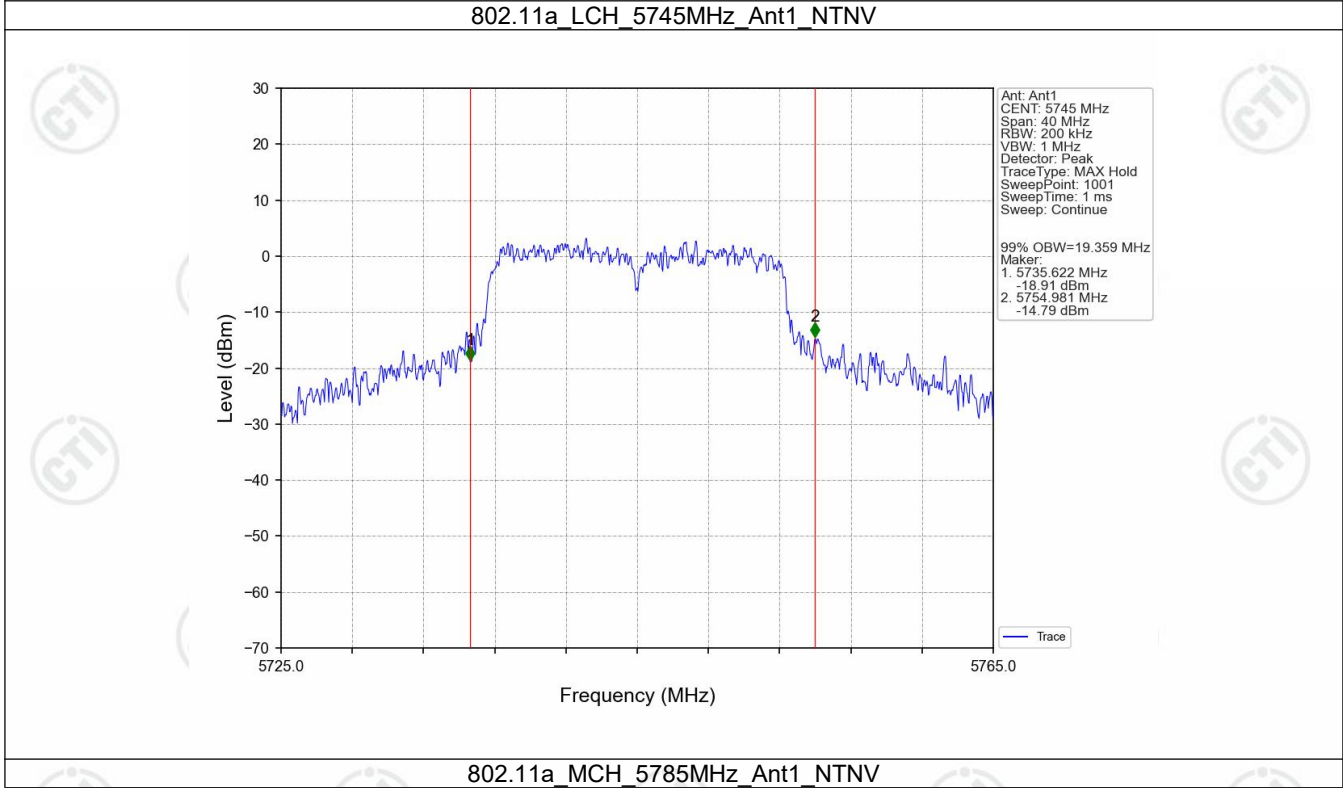
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	19.359	/	Pass
		5785	1	24.529	/	Pass
		5825	1	25.732	/	Pass
802.11n (HT20)	SISO	5745	1	18.121	/	Pass
		5785	1	23.634	/	Pass
		5825	1	26.849	/	Pass
802.11n (HT40)	SISO	5755	1	37.981	/	Pass
		5795	1	42.800	/	Pass
802.11ac (VHT20)	SISO	5745	1	18.441	/	Pass
		5785	1	23.183	/	Pass
		5825	1	25.270	/	Pass
802.11ac (VHT40)	SISO	5755	1	37.709	/	Pass
		5795	1	42.712	/	Pass

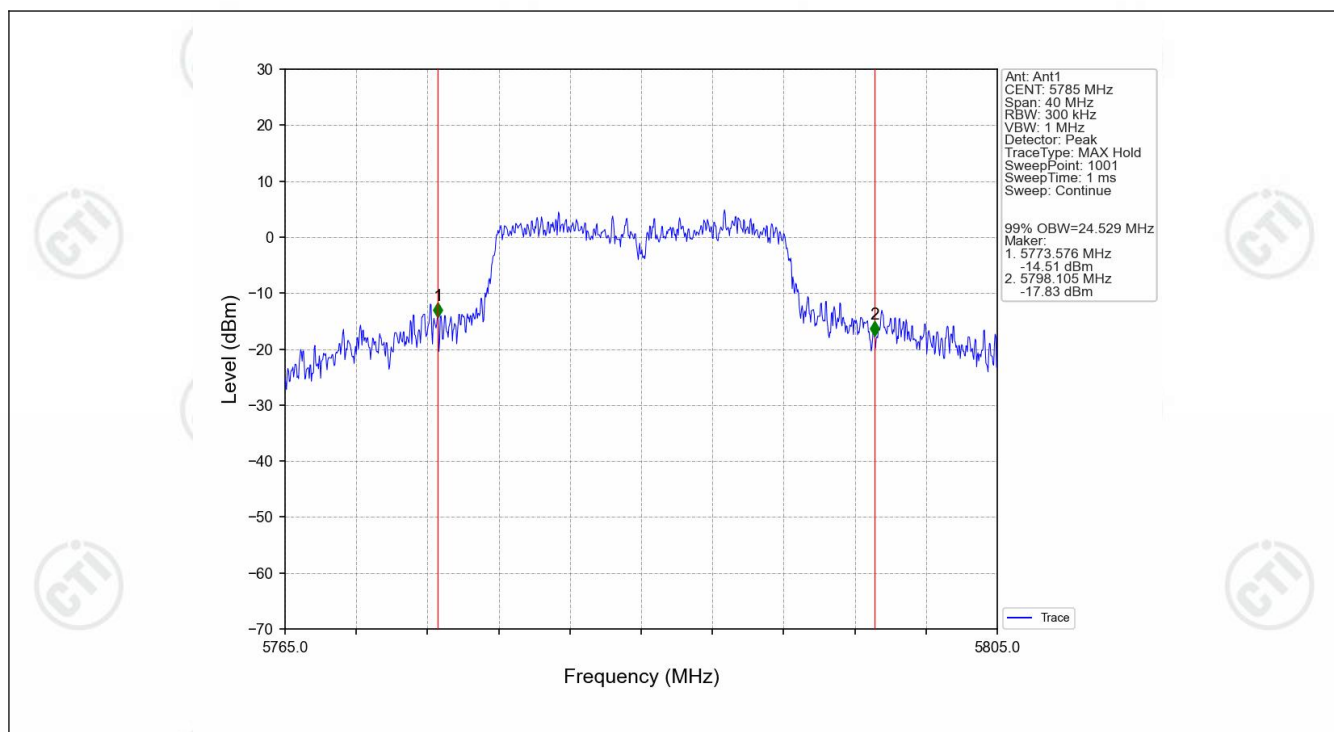
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.524	≥ 0.5	Pass
		5785	1	16.386	≥ 0.5	Pass
		5825	1	16.144	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	16.440	≥ 0.5	Pass
		5785	1	17.622	≥ 0.5	Pass
		5825	1	17.705	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.360	≥ 0.5	Pass
		5795	1	35.365	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.007	≥ 0.5	Pass
		5785	1	17.328	≥ 0.5	Pass
		5825	1	17.655	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	36.055	≥ 0.5	Pass
		5795	1	35.595	≥ 0.5	Pass

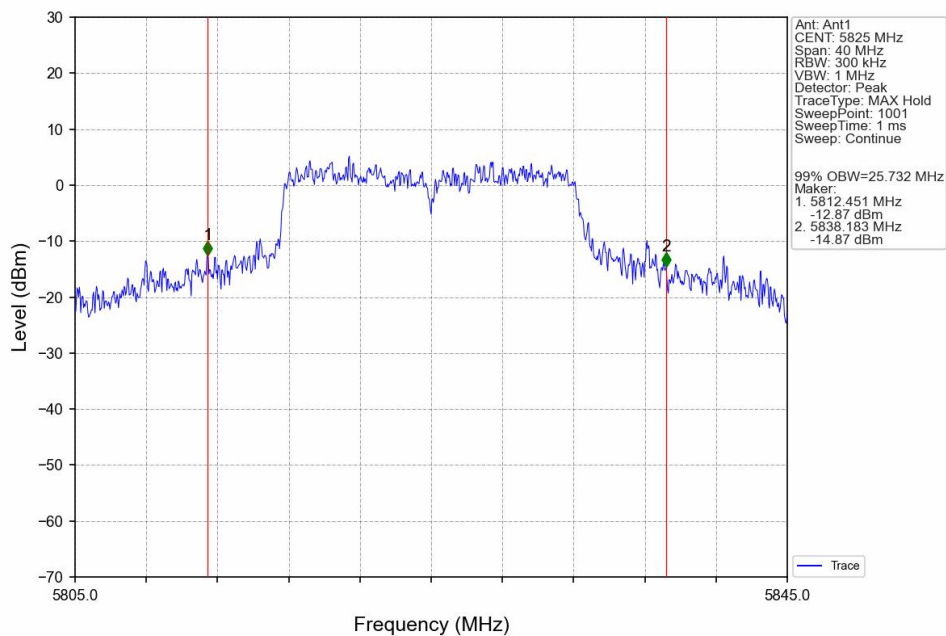
2.2 Test Graph

2.2.1 OBW

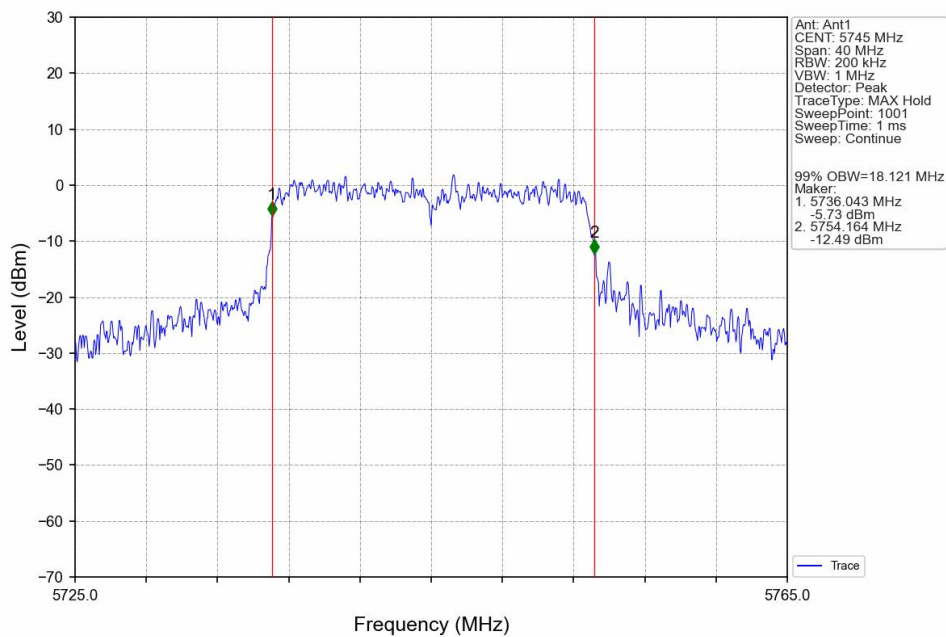




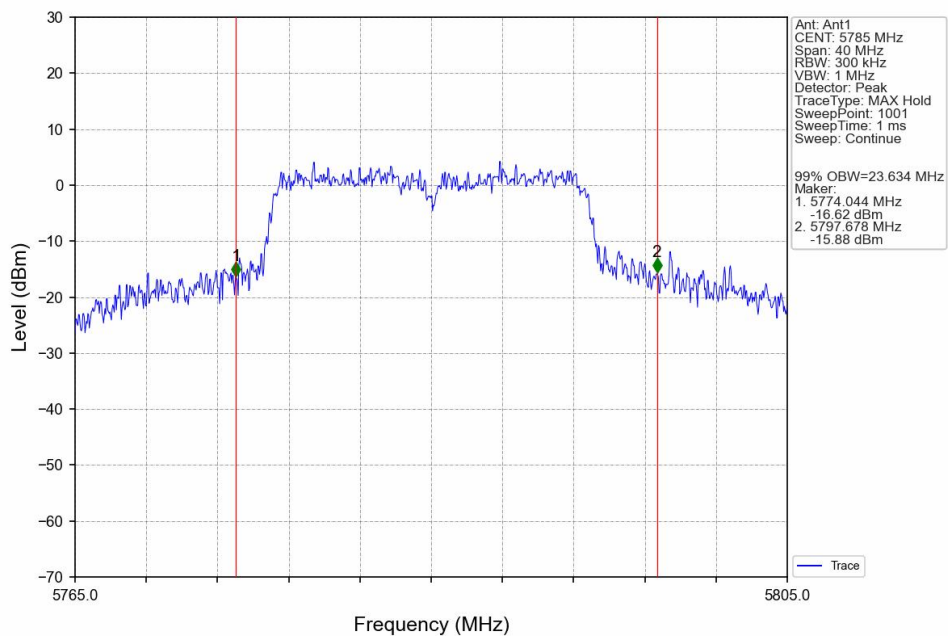
802.11a_HCH_5825MHz_Ant1_NTNV



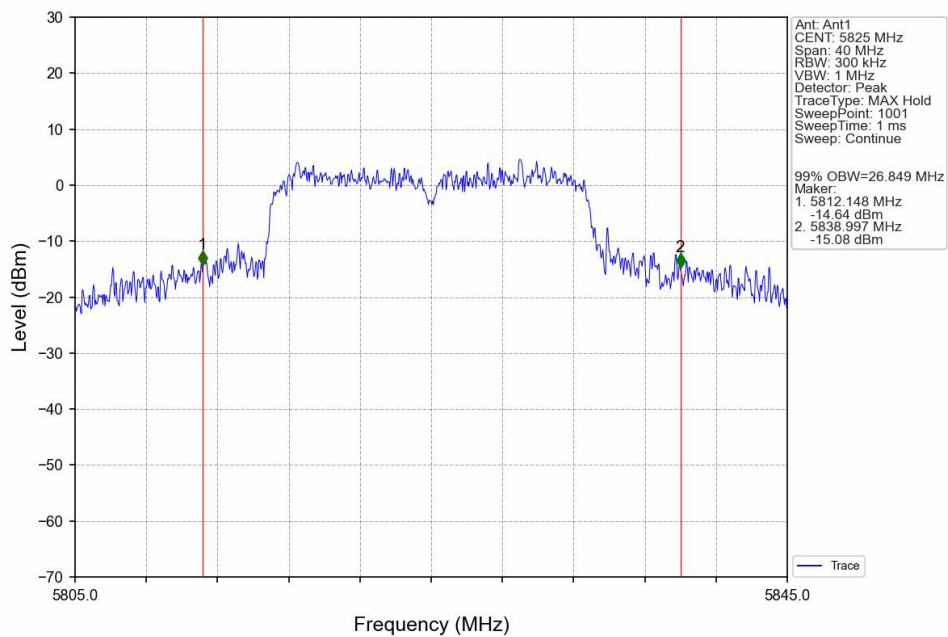
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



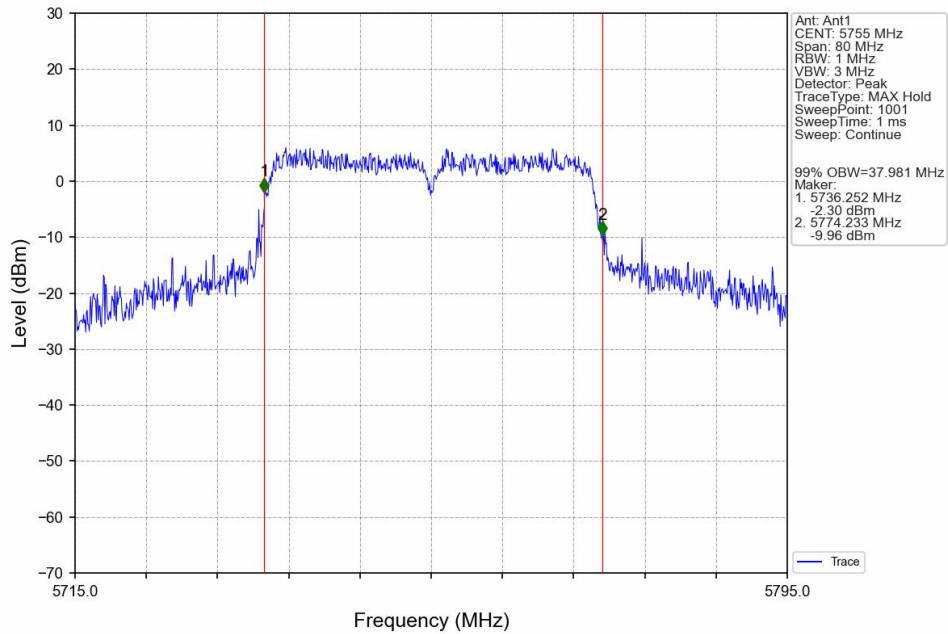
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



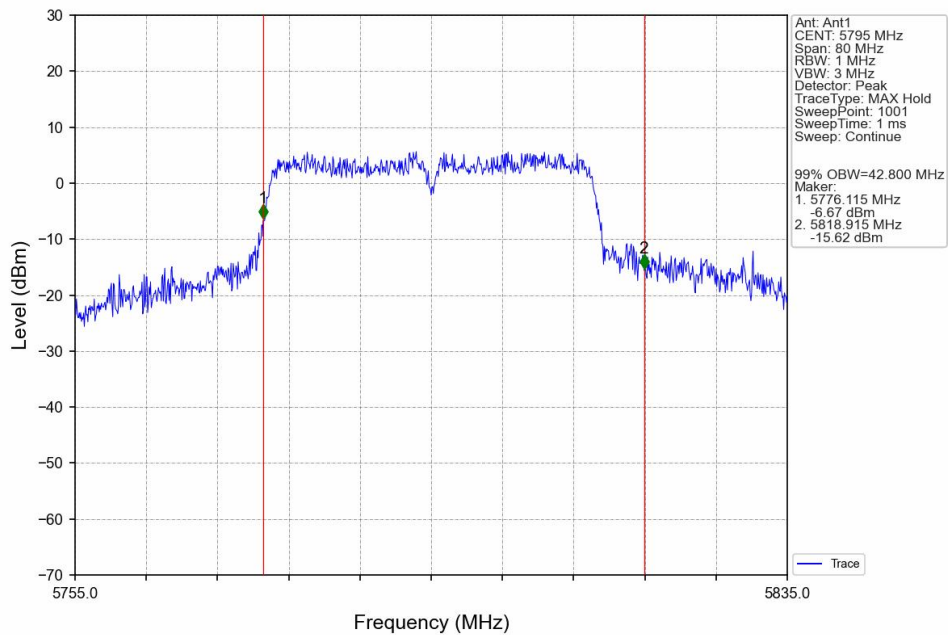
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



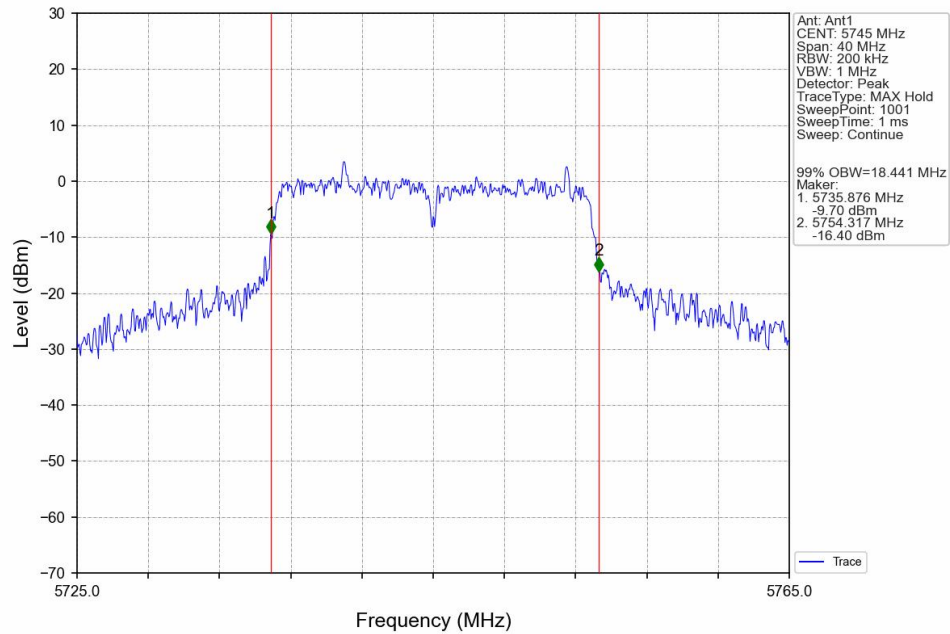
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

