

1. Duty Cycle

1.1 Test Result

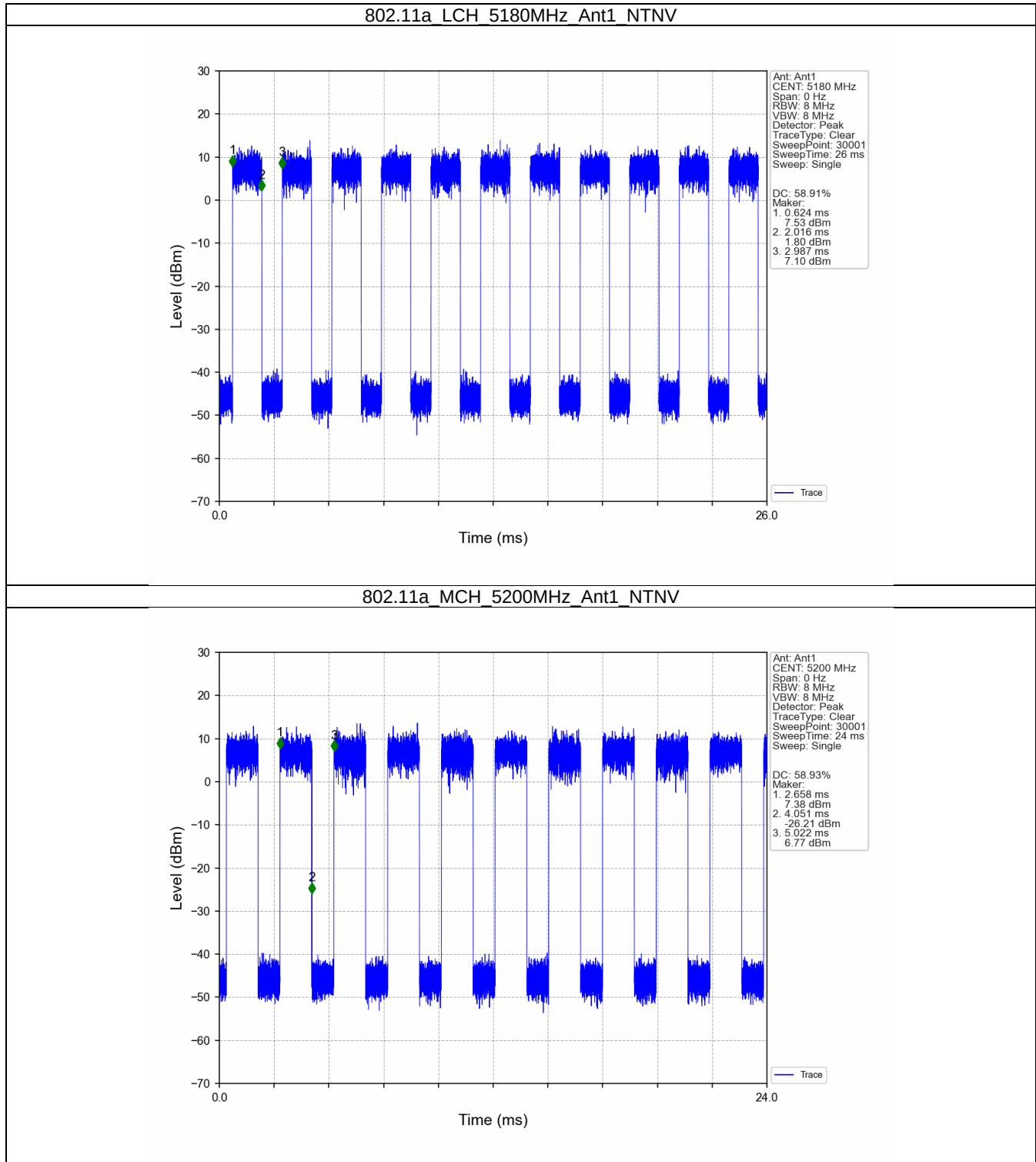
1.1.1 Ant1

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	1.392	2.363	58.91	2.30	0.25
		5200	1.393	2.364	58.93	2.30	0.24
		5240	1.393	2.364	58.93	2.30	1.39
		5745	1.392	2.353	59.16	2.28	0.05
		5785	1.392	2.354	59.13	2.28	0.01
		5825	1.392	2.353	59.16	2.28	0.45
802.11n (HT20)	SISO	5180	1.288	2.258	57.04	2.44	0.24
		5200	1.288	2.259	57.02	2.44	0.22
		5240	1.288	2.249	57.27	2.42	1.18
		5745	1.288	2.295	56.12	2.51	1.13
		5785	1.288	2.286	56.34	2.49	2.34
		5825	1.289	2.295	56.17	2.51	2.50
802.11n (HT40)	SISO	5190	0.632	1.594	39.65	4.02	0.01
		5230	0.632	1.594	39.65	4.02	18.38
		5755	0.632	1.594	39.65	4.02	18.42
		5795	0.632	1.594	39.65	4.02	0.02
802.11ac (VHT20)	SISO	5180	1.309	2.315	56.54	2.48	1.12
		5200	1.308	2.270	57.62	2.39	0.26
		5240	1.309	2.279	57.44	2.41	1.64
		5745	1.308	2.270	57.62	2.39	0.26
		5785	1.308	2.269	57.65	2.39	0.01
		5825	1.308	2.270	57.62	2.39	0.01
802.11ac (VHT40)	SISO	5190	0.652	1.623	40.17	3.96	0.26
		5230	0.652	1.613	40.42	3.93	19.37
		5755	0.652	1.722	37.86	4.22	2.56
		5795	0.652	1.613	40.42	3.93	0.03
802.11ac (VHT80)	SISO	5210	0.324	1.285	25.21	5.98	0.04
		5775	0.324	1.285	25.21	5.98	0.03



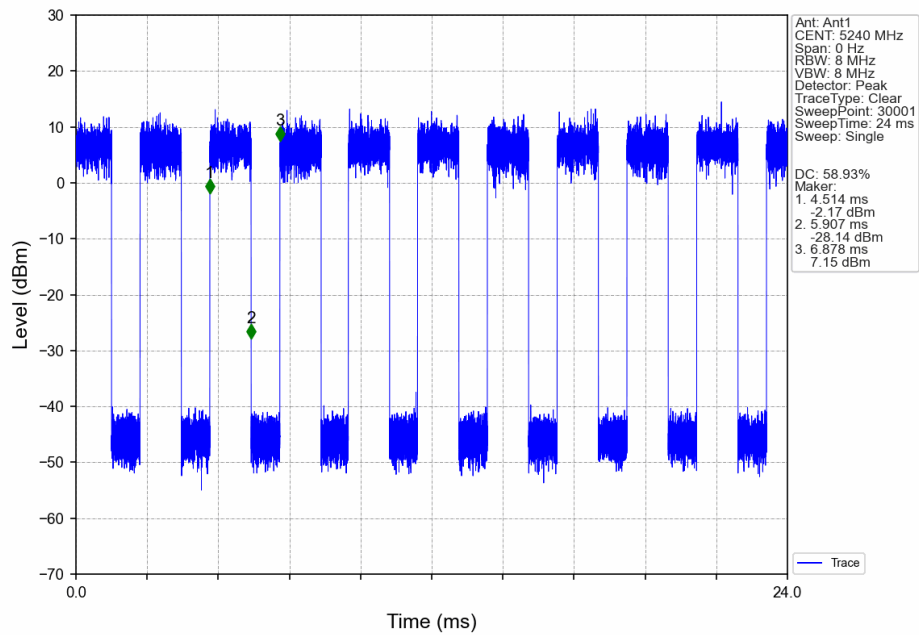
1.2 Test Graph

1.2.1 Ant1

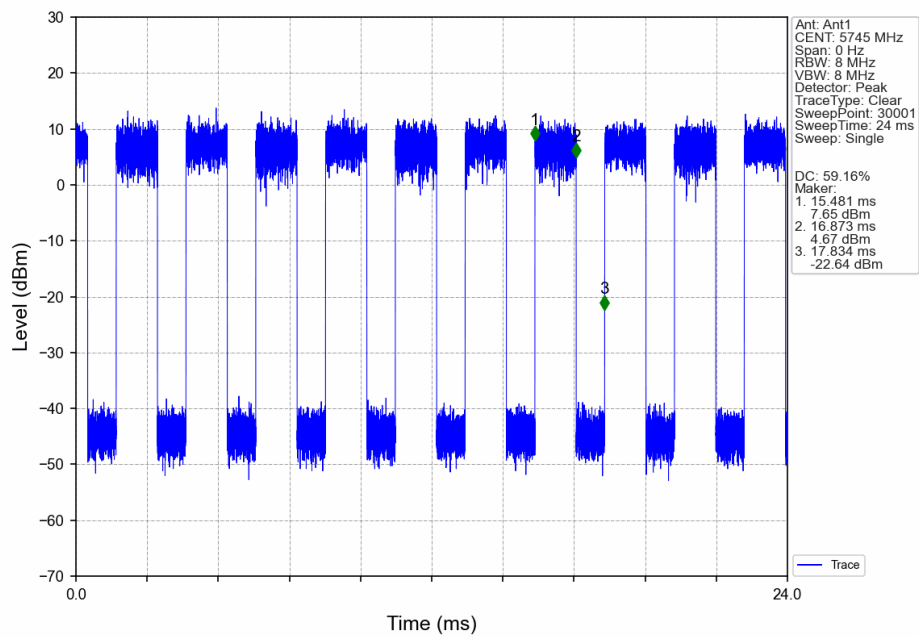




802.11a_HCH_5240MHz_Ant1_NTNV

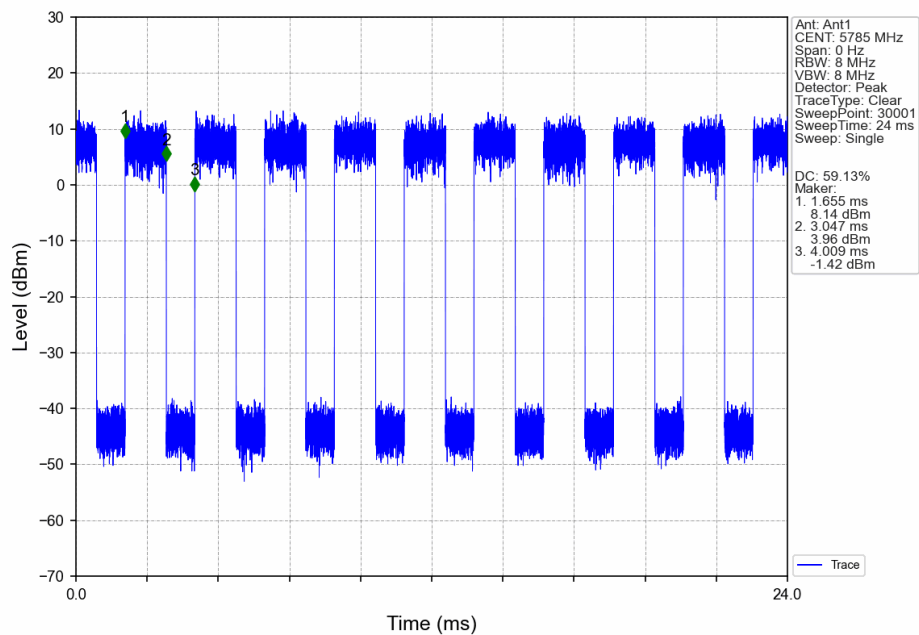


802.11a_LCH_5745MHz_Ant1_NTNV

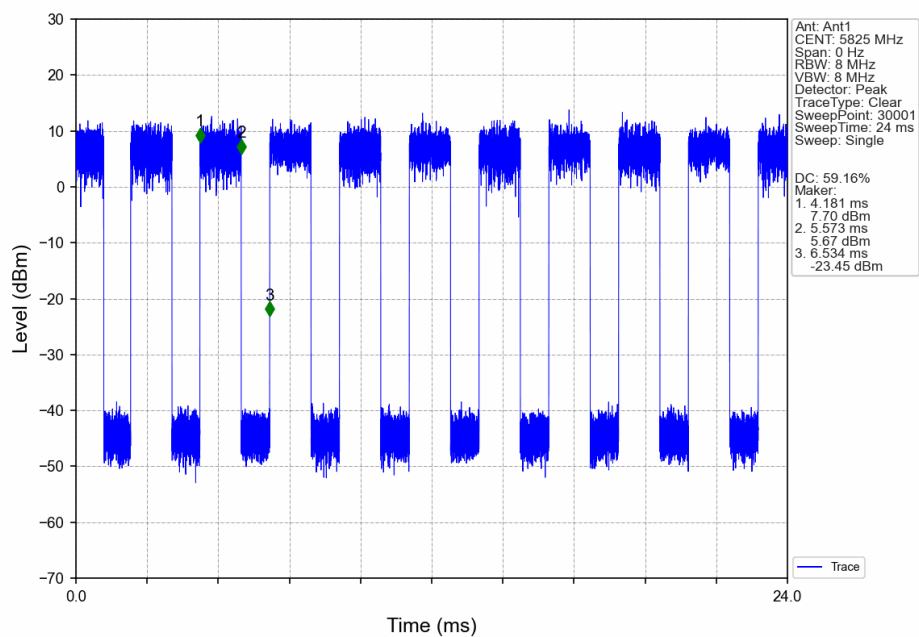




802.11a_MCH_5785MHz_Ant1_NTNV

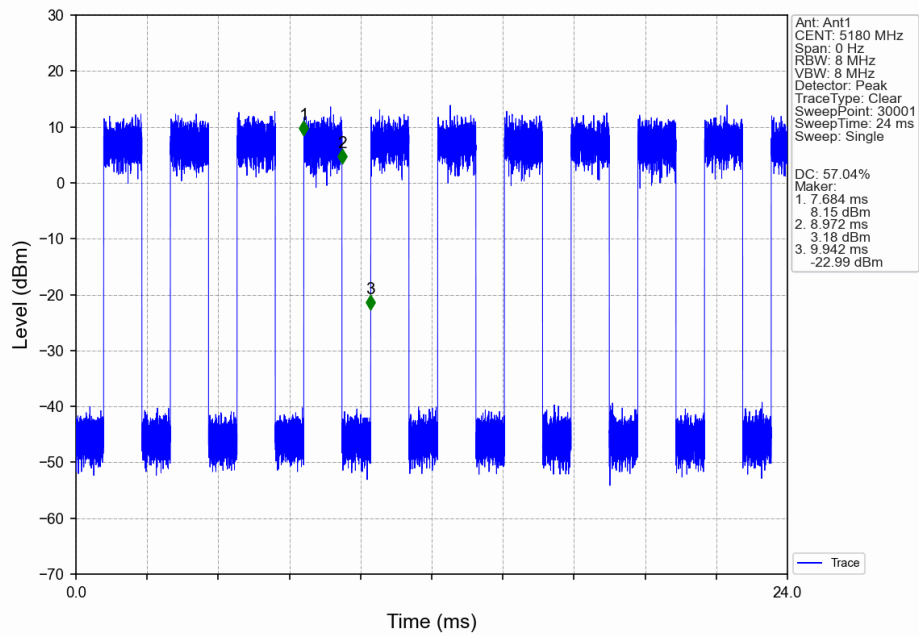


802.11a_HCH_5825MHz_Ant1_NTNV

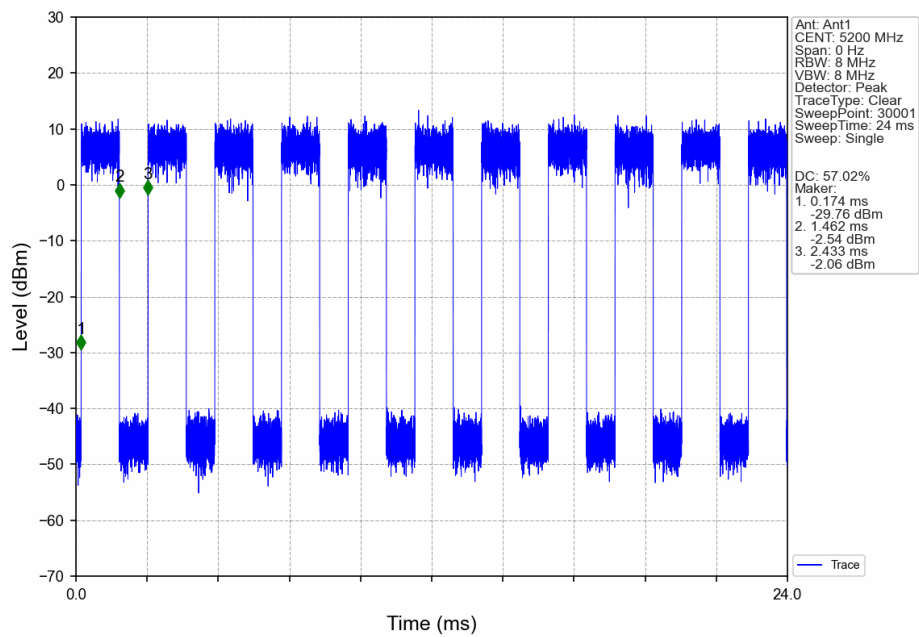




802.11n(HT20) LCH 5180MHz Ant1 NTN

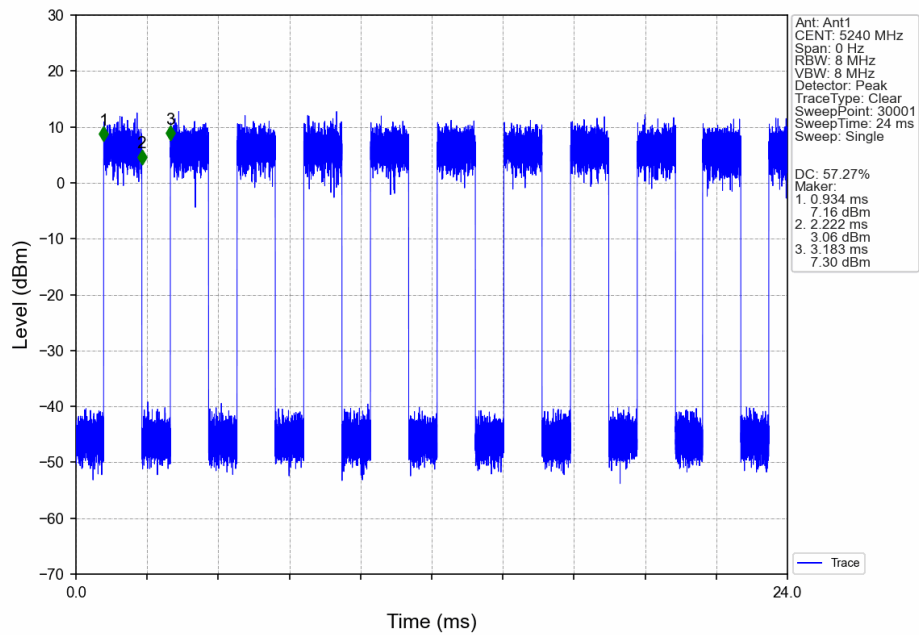


802.11n(HT20) MCH 5200MHz Ant1 NTN

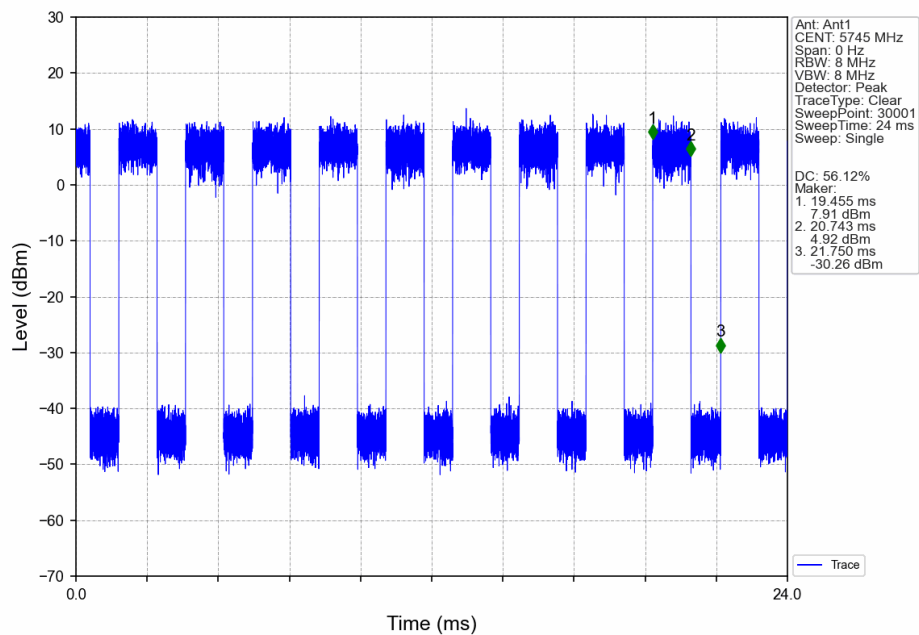




802.11n(HT20) HCH 5240MHz Ant1 NTN

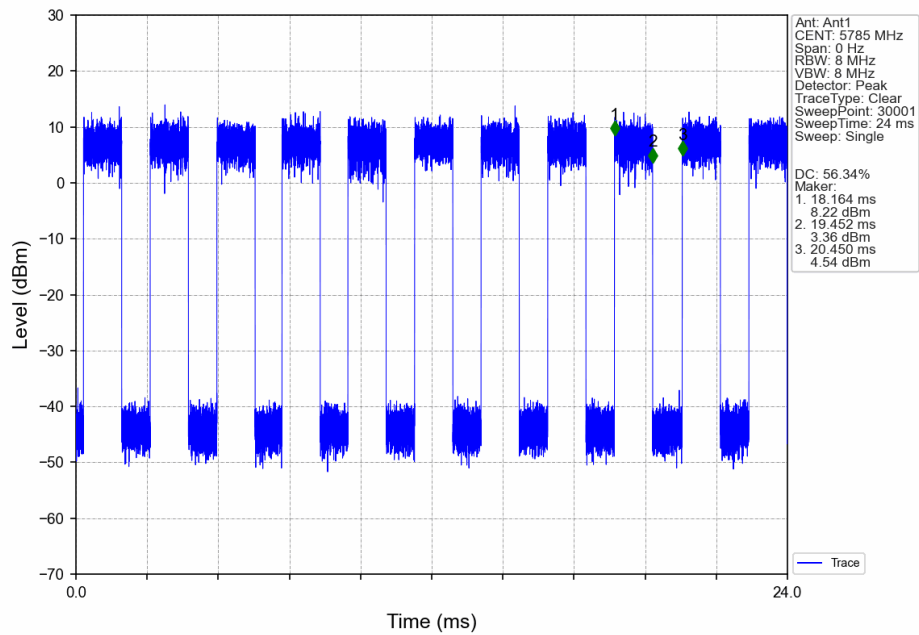


802.11n(HT20) LCH 5745MHz Ant1 NTN

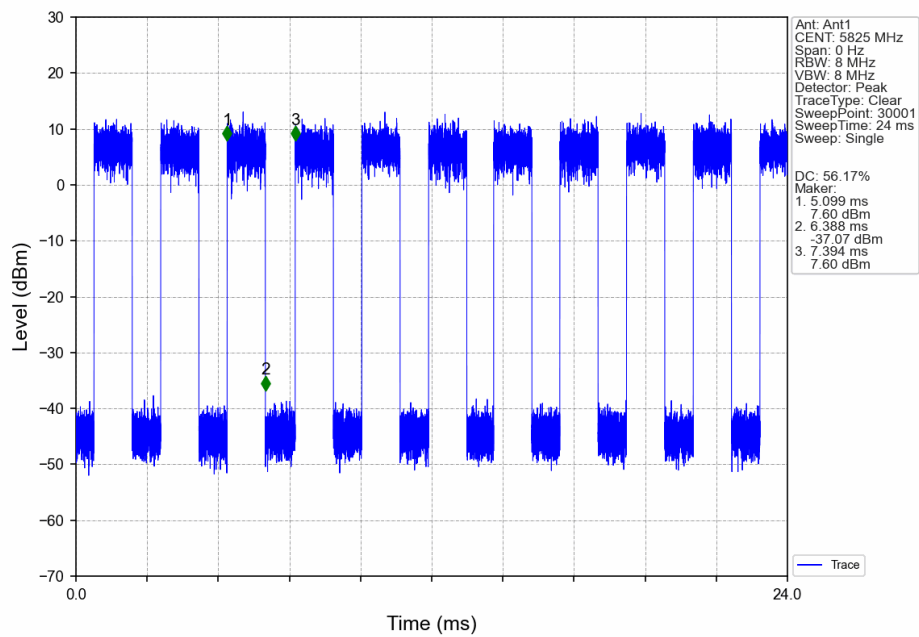




802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

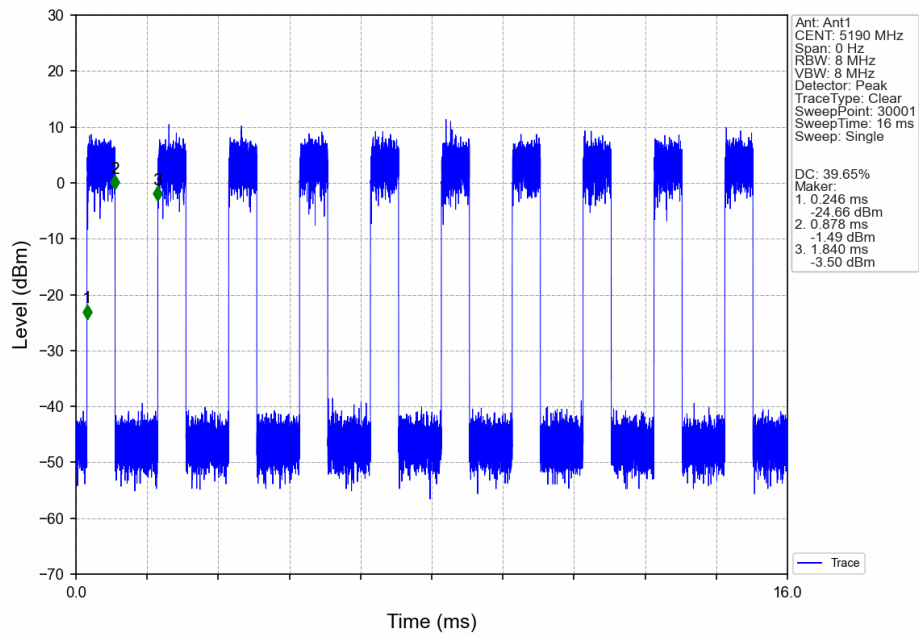


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

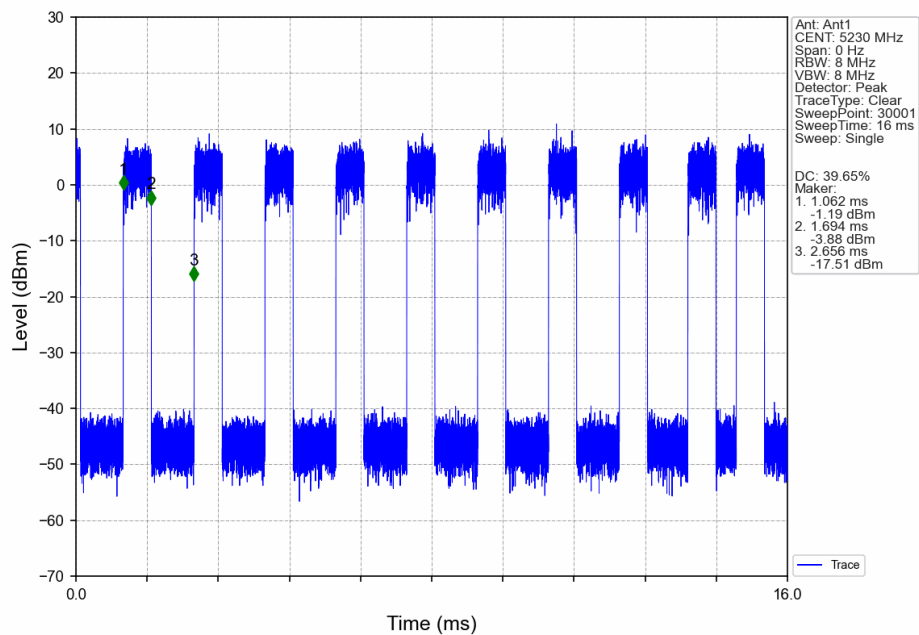




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

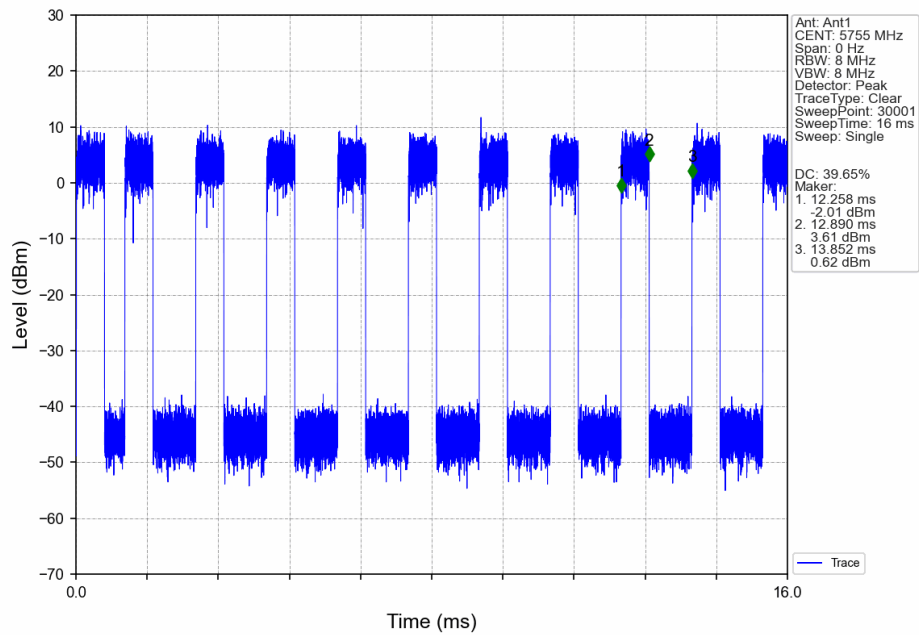


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

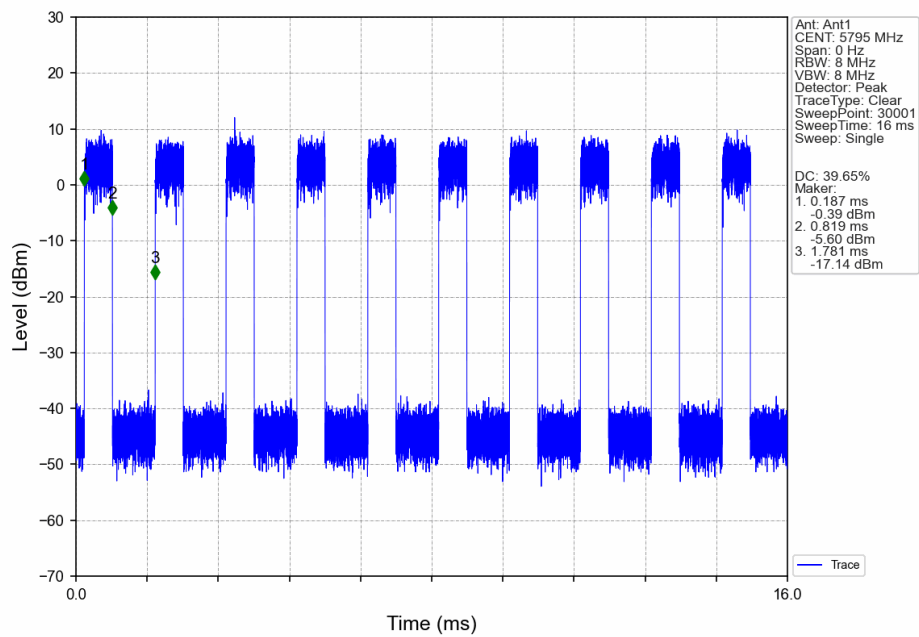




802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

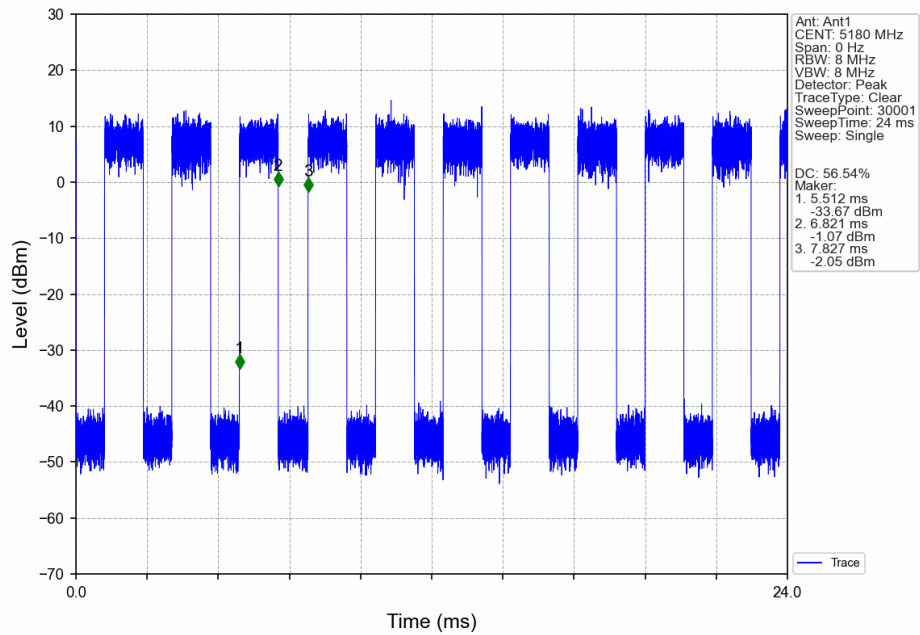


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

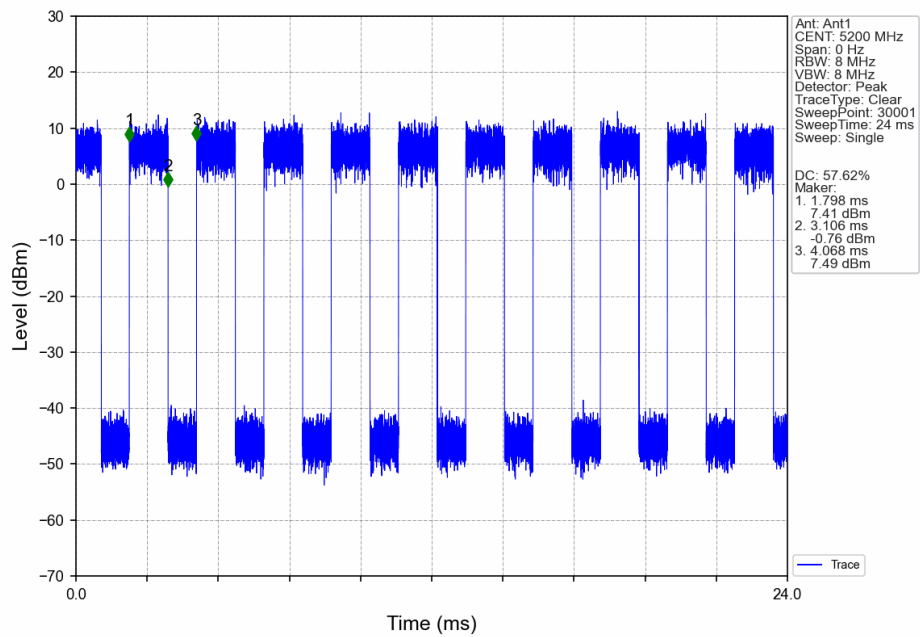




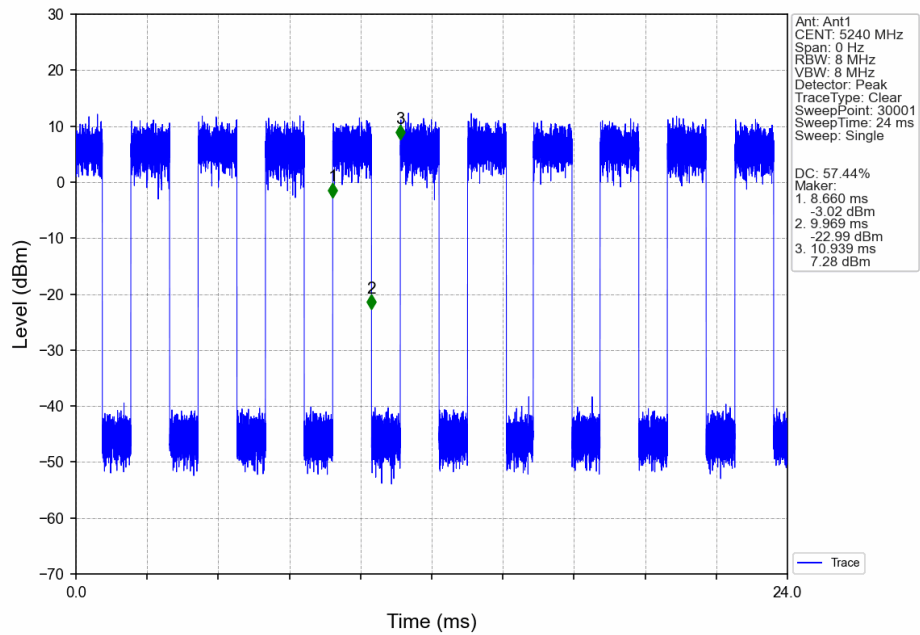
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



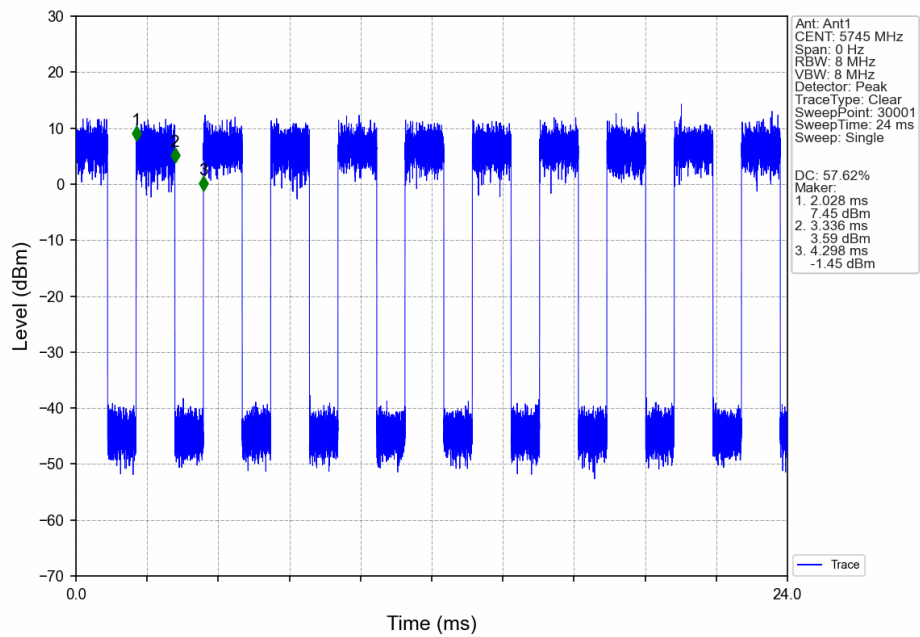
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

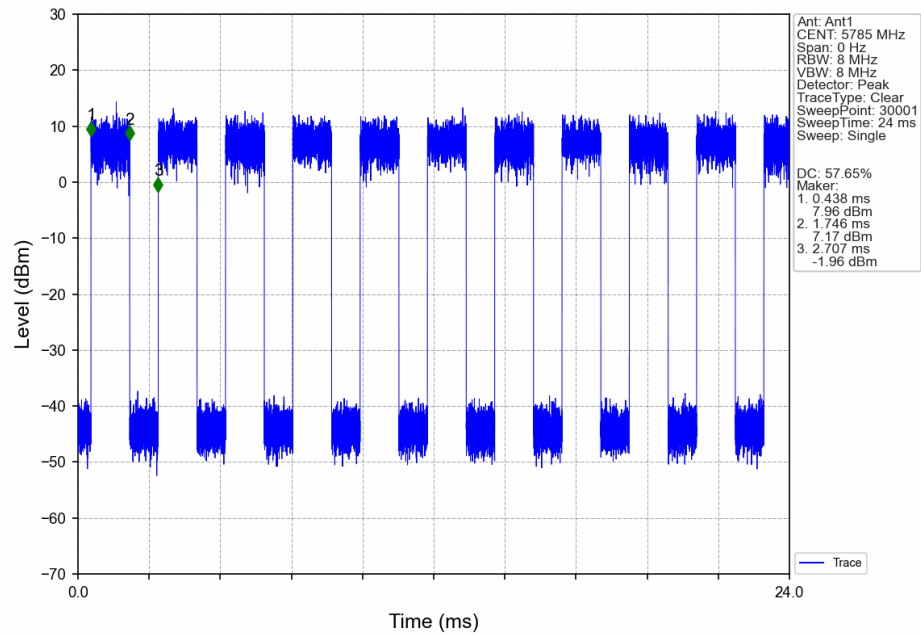


802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

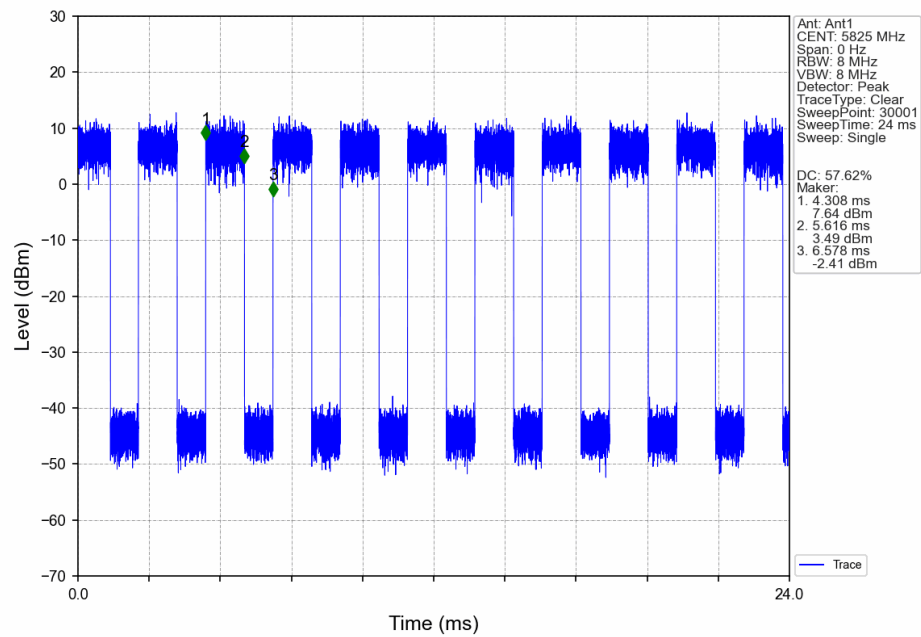




802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

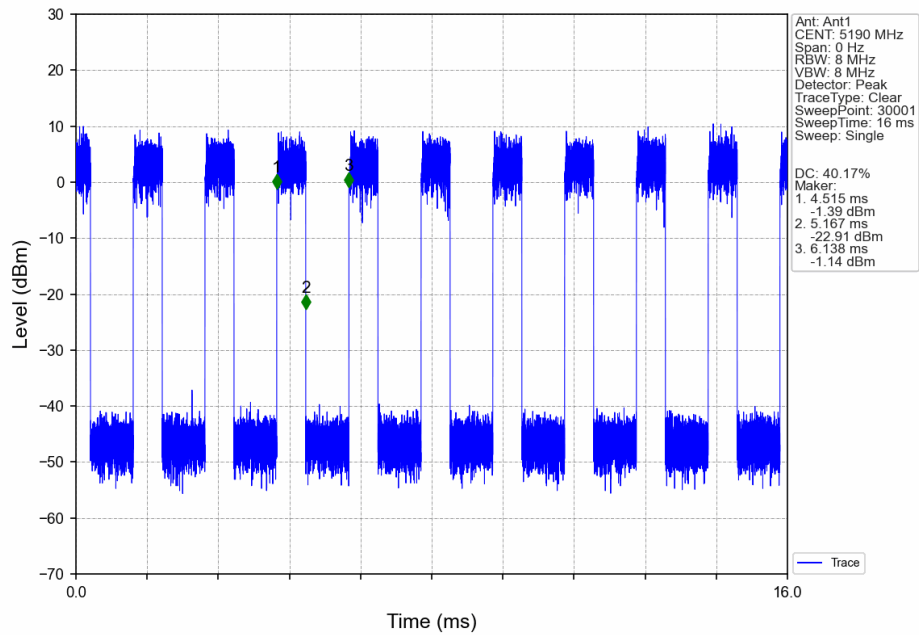


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

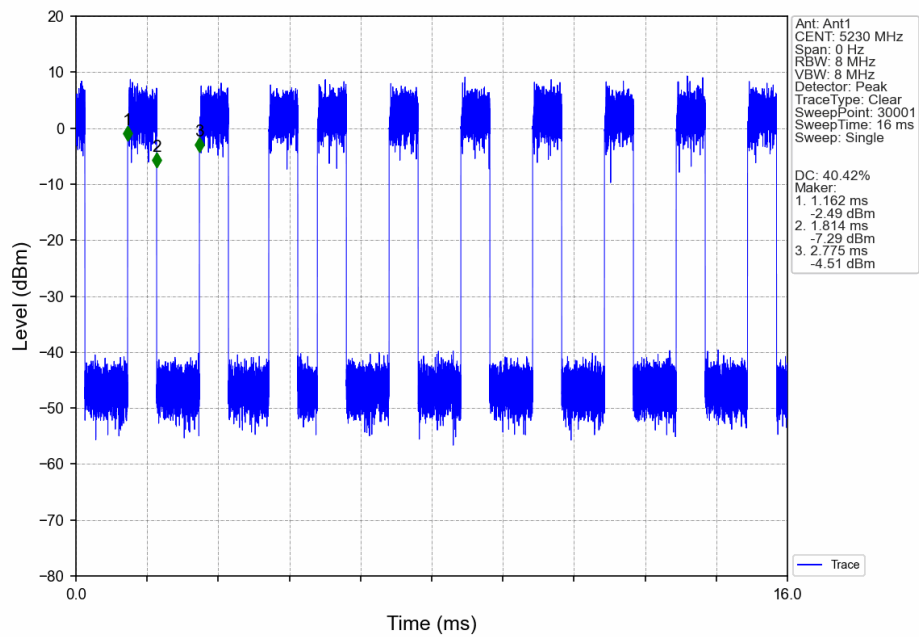




802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

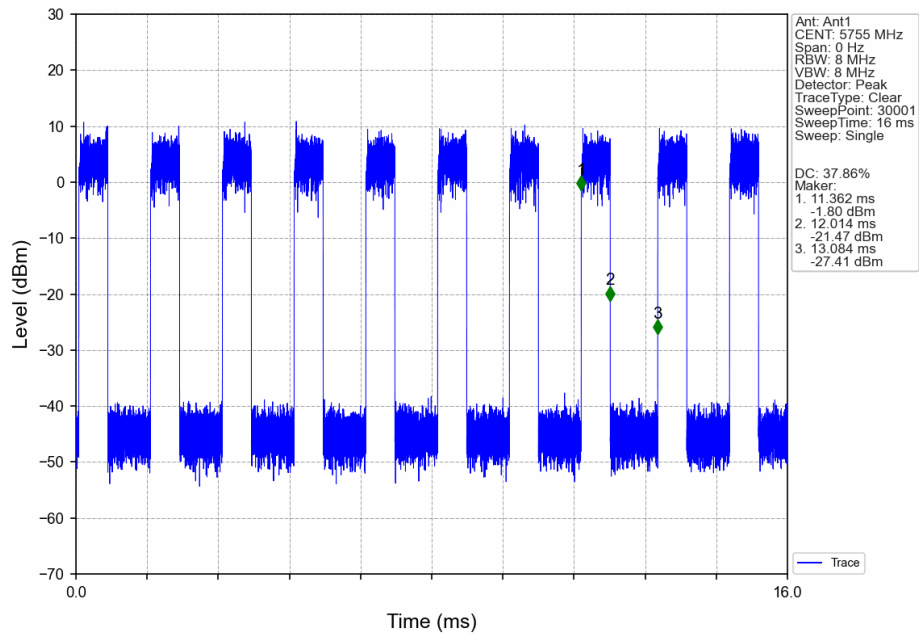


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

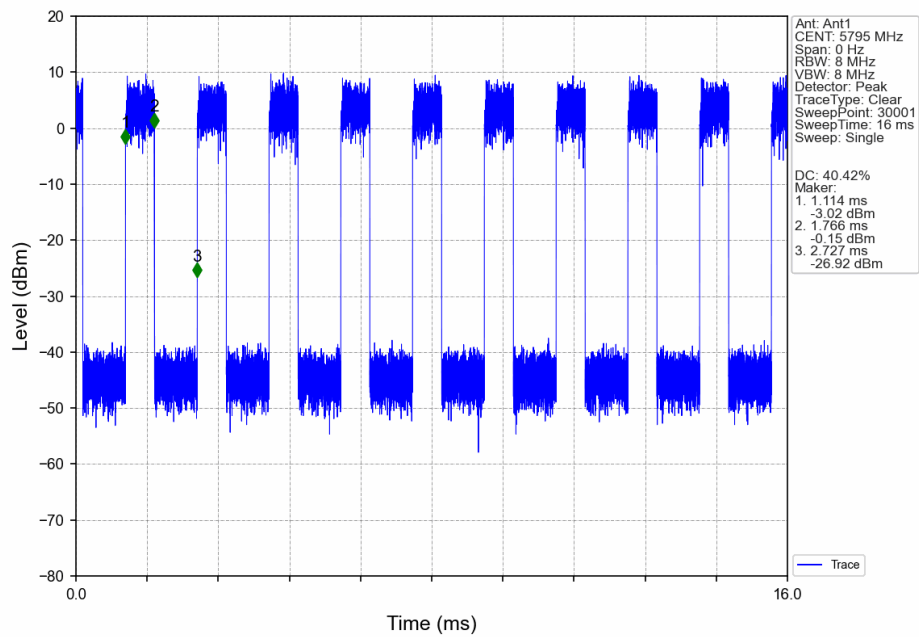




802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

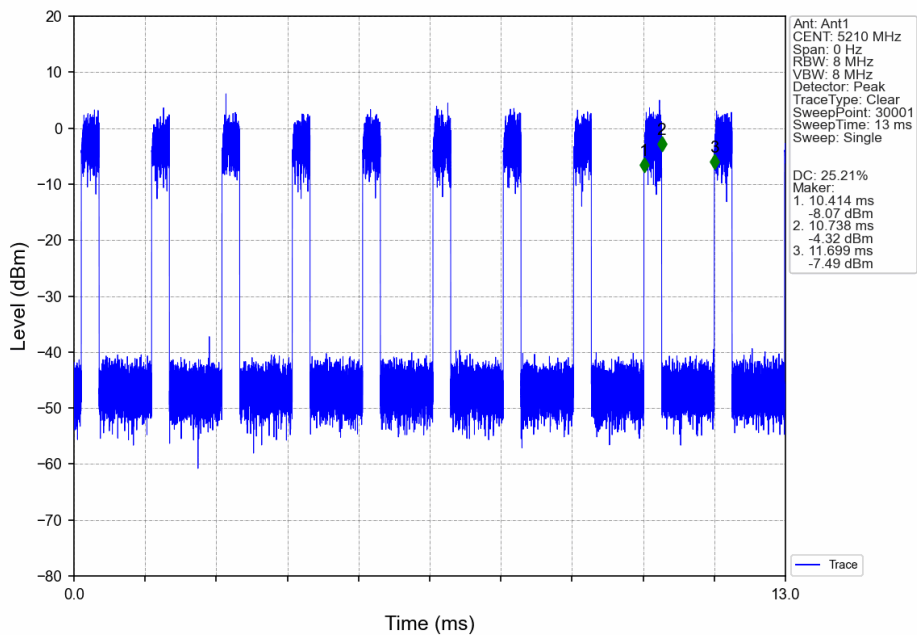


802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

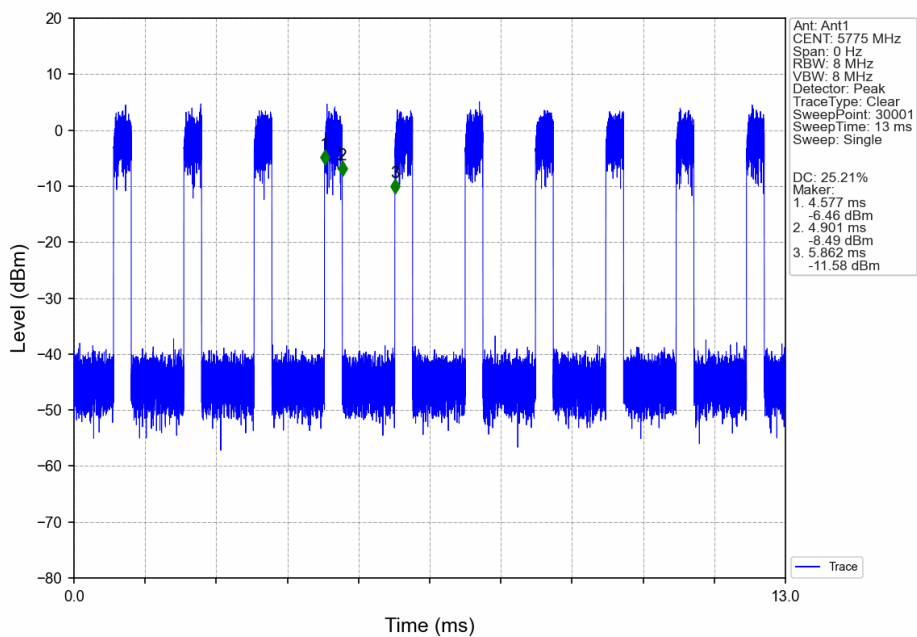




802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_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	5180	1	17.054	/	Pass
		5200	1	17.112	/	Pass
		5240	1	17.059	/	Pass
		5745	1	17.139	/	Pass
		5785	1	17.009	/	Pass
		5825	1	17.085	/	Pass
802.11n (HT20)	SISO	5180	1	17.914	/	Pass
		5200	1	17.968	/	Pass
		5240	1	17.912	/	Pass
		5745	1	17.959	/	Pass
		5785	1	17.883	/	Pass
		5825	1	17.919	/	Pass
802.11n (HT40)	SISO	5190	1	36.110	/	Pass
		5230	1	36.177	/	Pass
		5755	1	36.010	/	Pass
		5795	1	36.146	/	Pass
802.11ac (VHT20)	SISO	5180	1	17.906	/	Pass
		5200	1	17.931	/	Pass
		5240	1	17.928	/	Pass
		5745	1	17.978	/	Pass
		5785	1	17.957	/	Pass
		5825	1	17.996	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.135	/	Pass
		5230	1	36.141	/	Pass
		5755	1	36.084	/	Pass
		5795	1	36.082	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.455	/	Pass
		5775	1	76.035	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	15.139	≥ 0.5	Pass
		5785	1	15.080	≥ 0.5	Pass
		5825	1	15.159	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	15.138	≥ 0.5	Pass
		5785	1	15.140	≥ 0.5	Pass
		5825	1	15.140	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.121	≥ 0.5	Pass
		5795	1	35.107	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	15.142	≥ 0.5	Pass
		5785	1	15.092	≥ 0.5	Pass
		5825	1	15.299	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.120	≥ 0.5	Pass
		5795	1	35.049	≥ 0.5	Pass



802.11ac (VHT80)	SISO	5775	1	75.524	≥ 0.5	Pass
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2.1.3 26dB BW

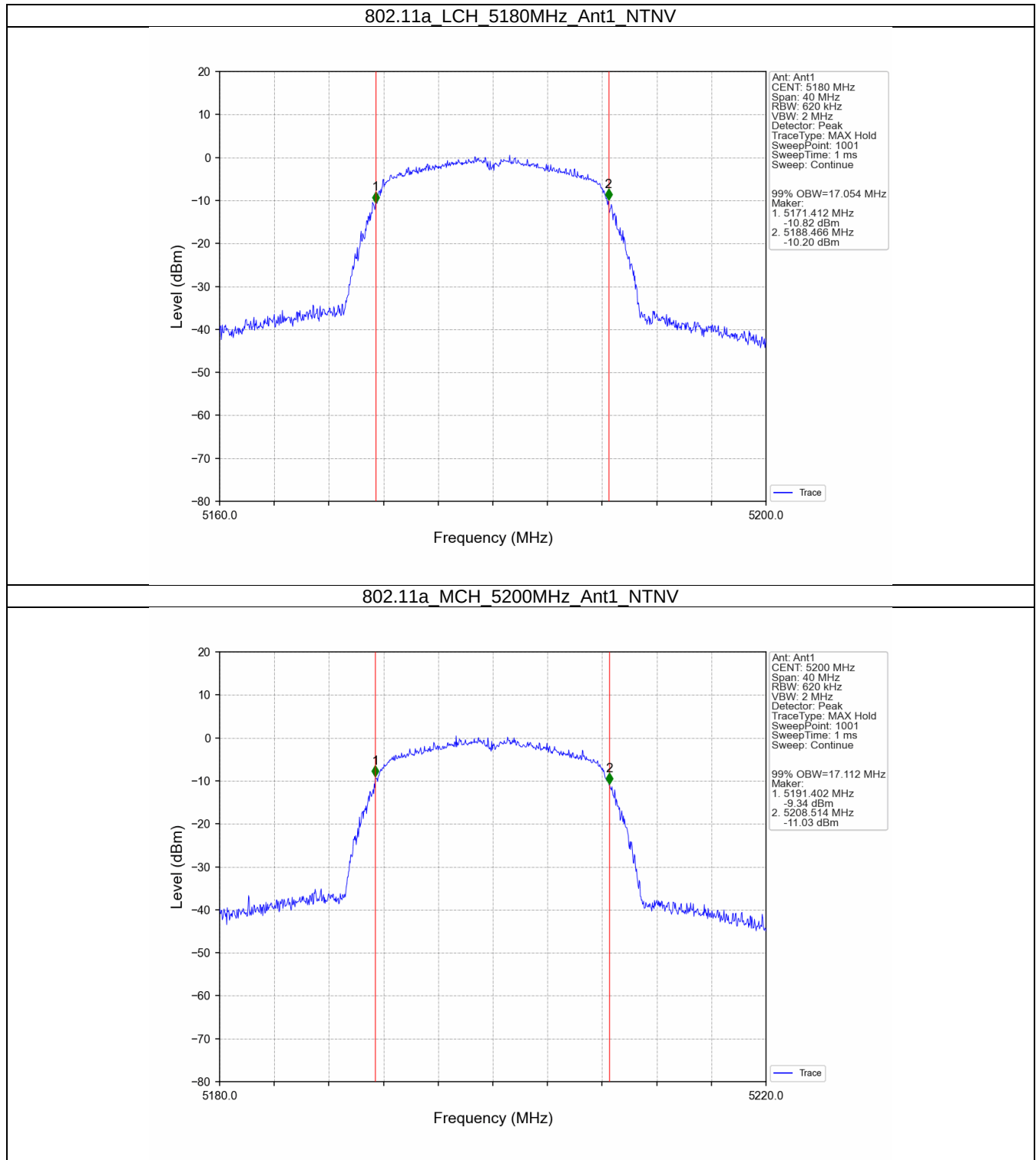
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	19.621	/	Pass
		5200	1	19.478	/	Pass
		5240	1	19.624	/	Pass
802.11n (HT20)	SISO	5180	1	19.987	/	Pass
		5200	1	19.851	/	Pass
		5240	1	19.883	/	Pass
802.11n (HT40)	SISO	5190	1	40.341	/	Pass
		5230	1	40.525	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.096	/	Pass
		5200	1	19.923	/	Pass
		5240	1	20.020	/	Pass
802.11ac (VHT40)	SISO	5190	1	39.767	/	Pass
		5230	1	40.314	/	Pass
802.11ac (VHT80)	SISO	5210	1	80.171	/	Pass



4

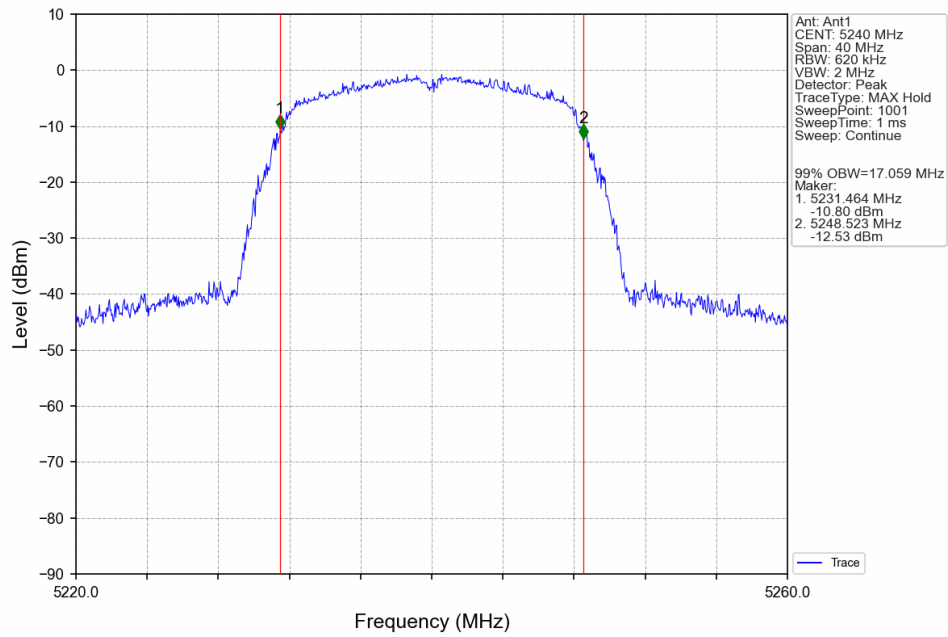
2.2 Test Graph

2.2.1 OBW

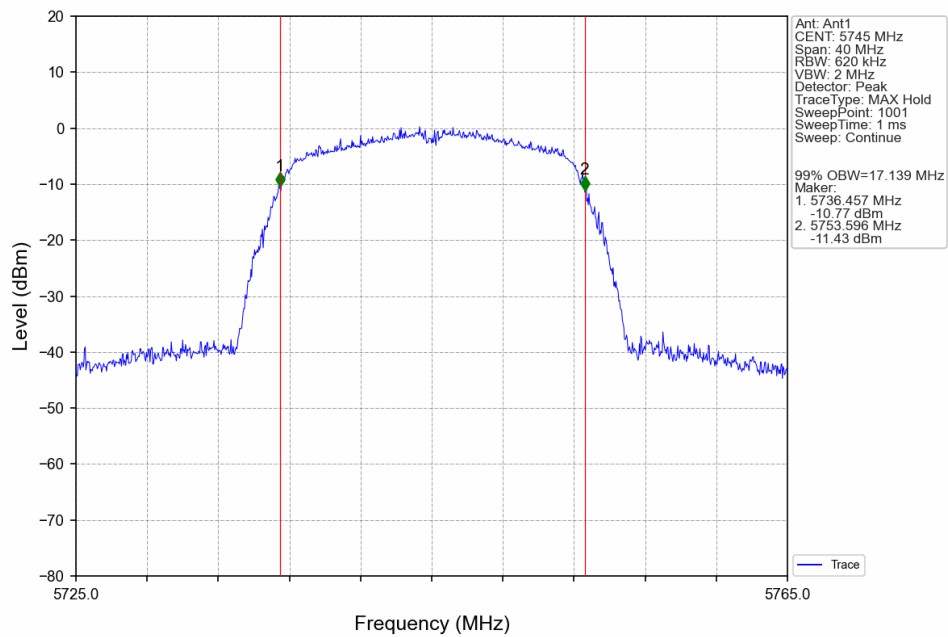




802.11a_HCH_5240MHz_Ant1_NTNV

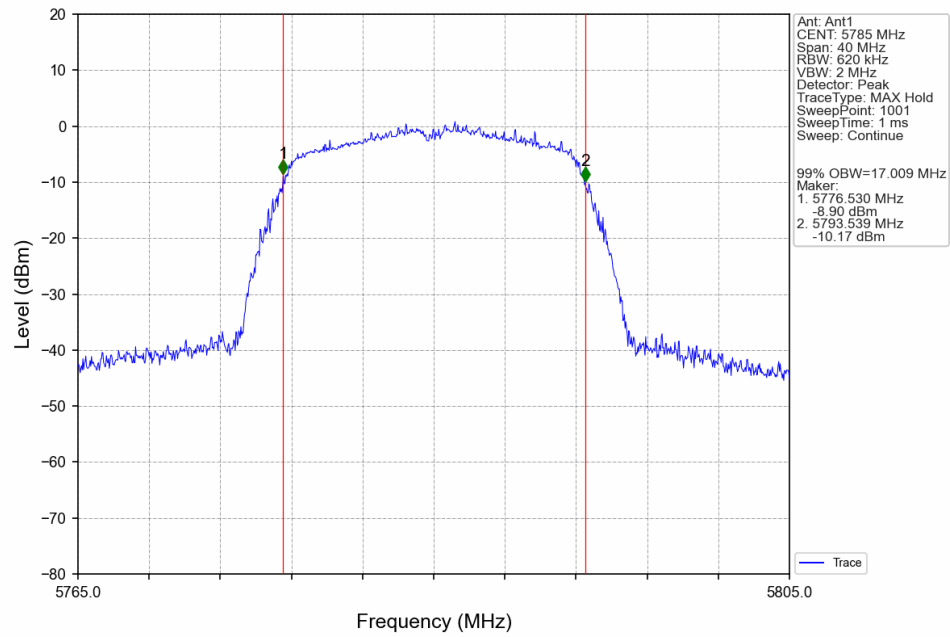


802.11a_LCH_5745MHz_Ant1_NTNV

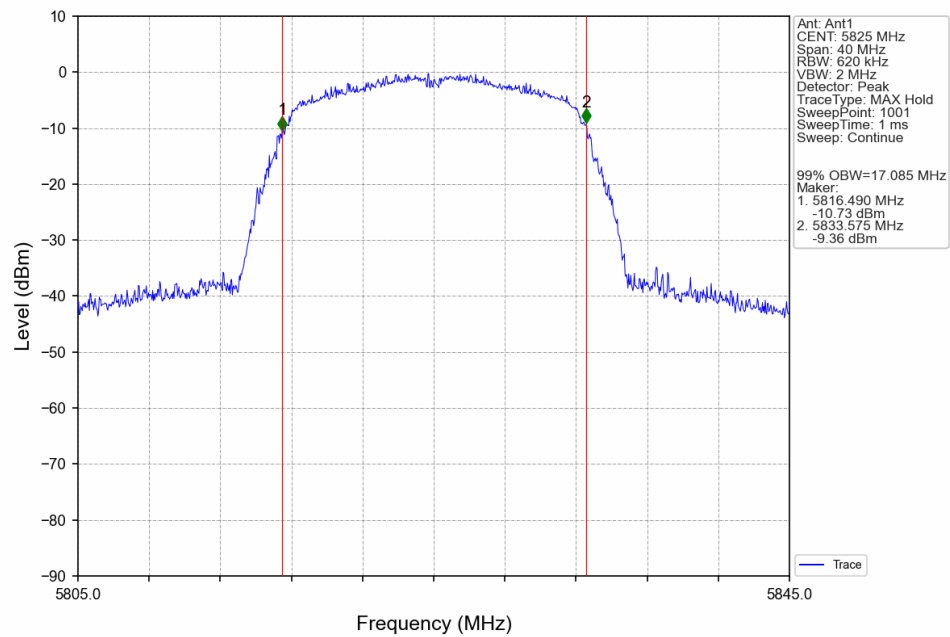




802.11a_MCH_5785MHz_Ant1_NTNV

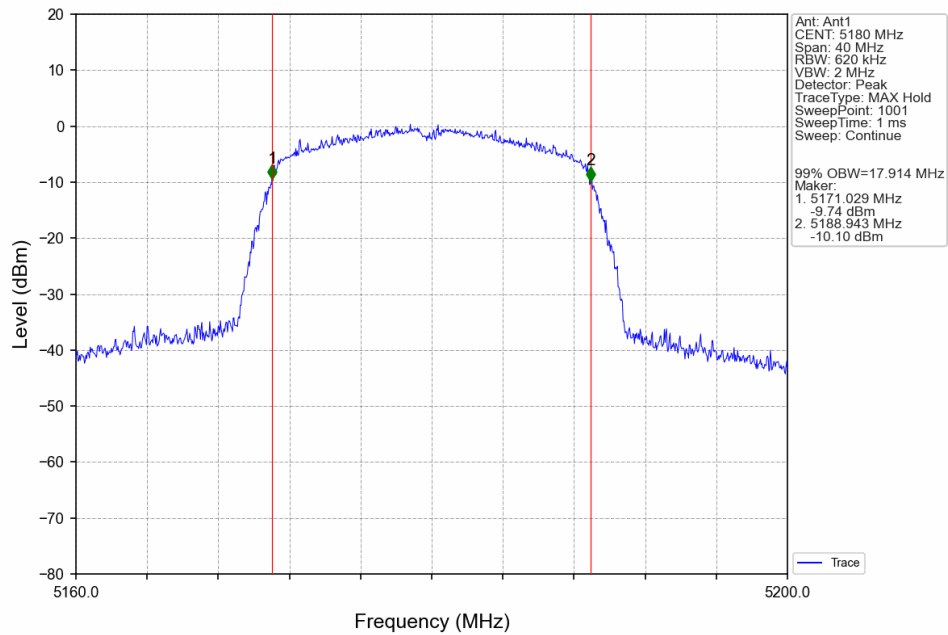


802.11a_HCH_5825MHz_Ant1_NTNV

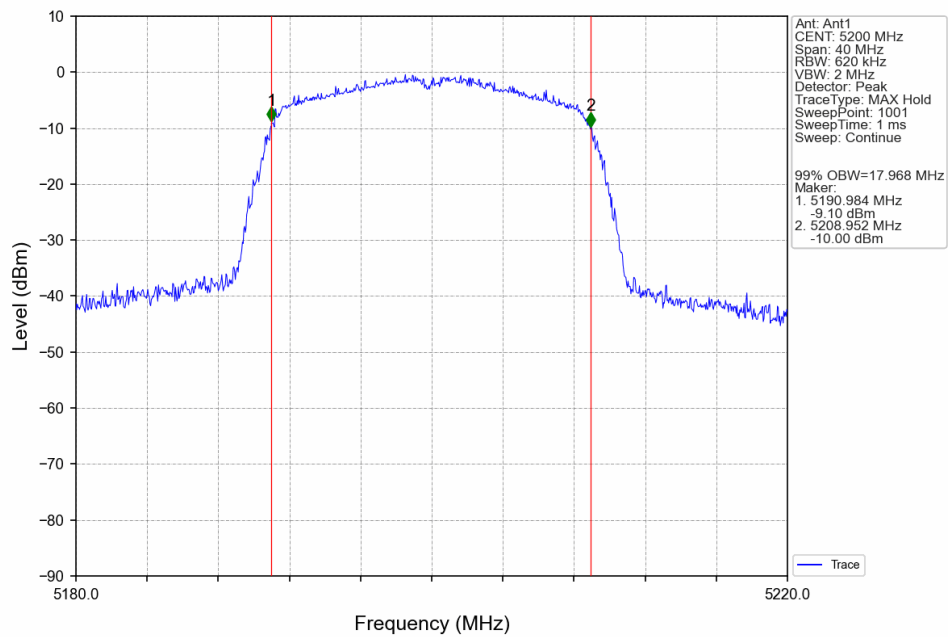




802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

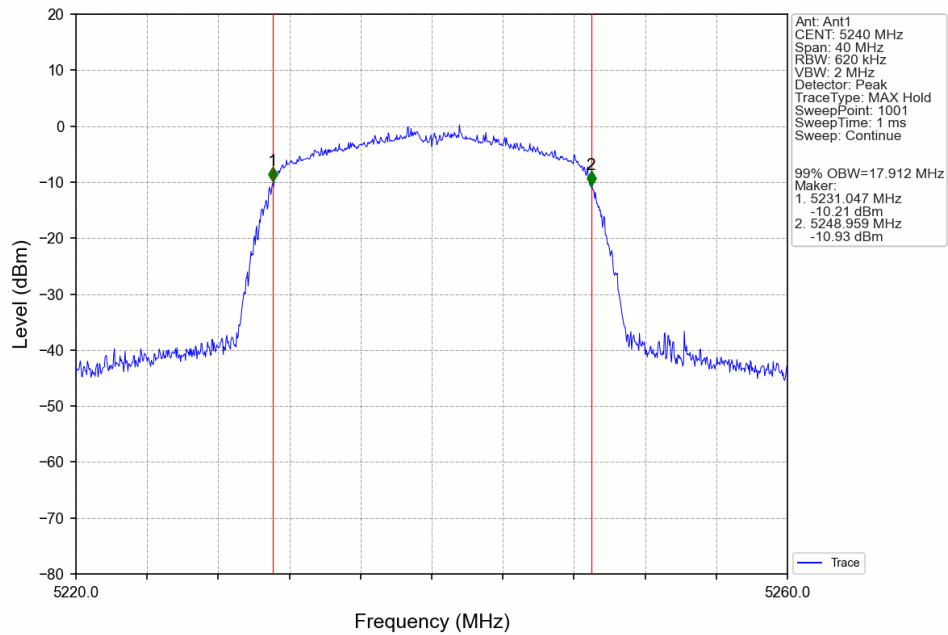


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

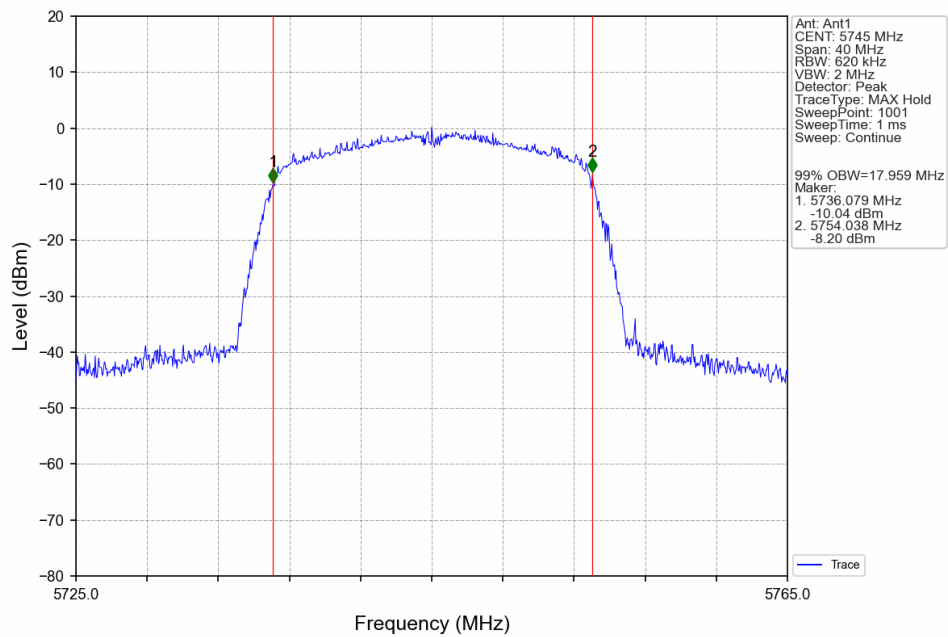




802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

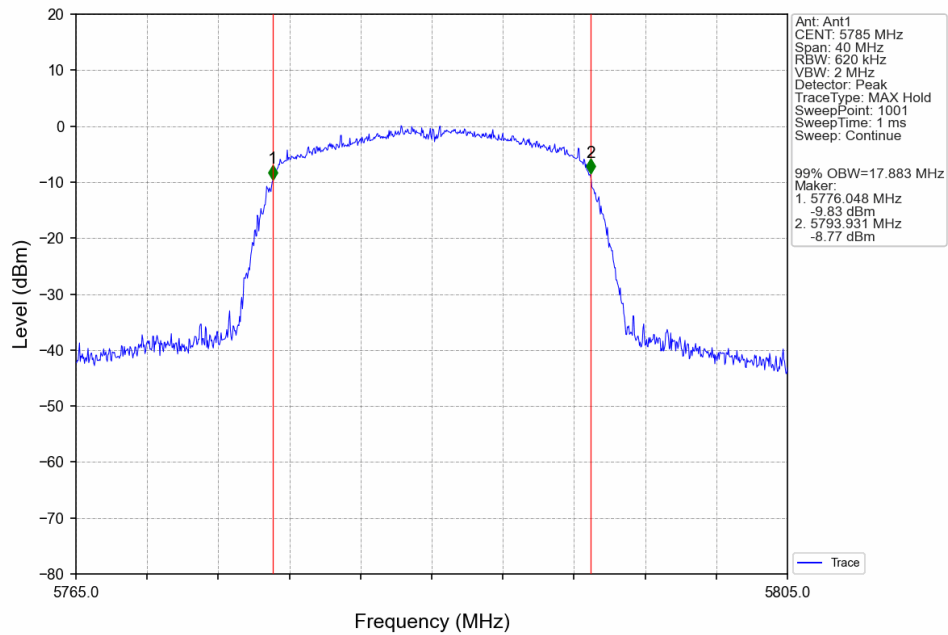


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

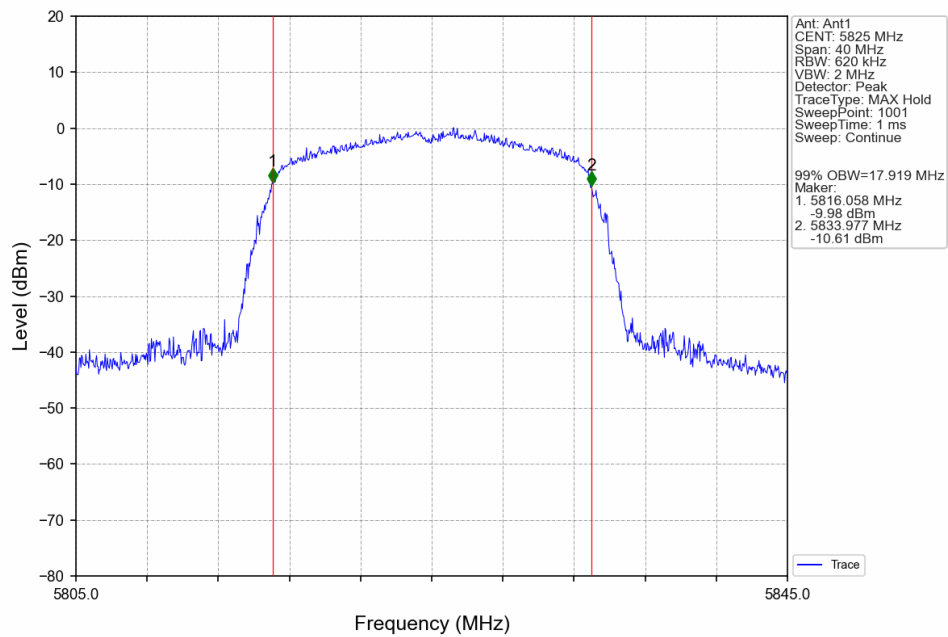




802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

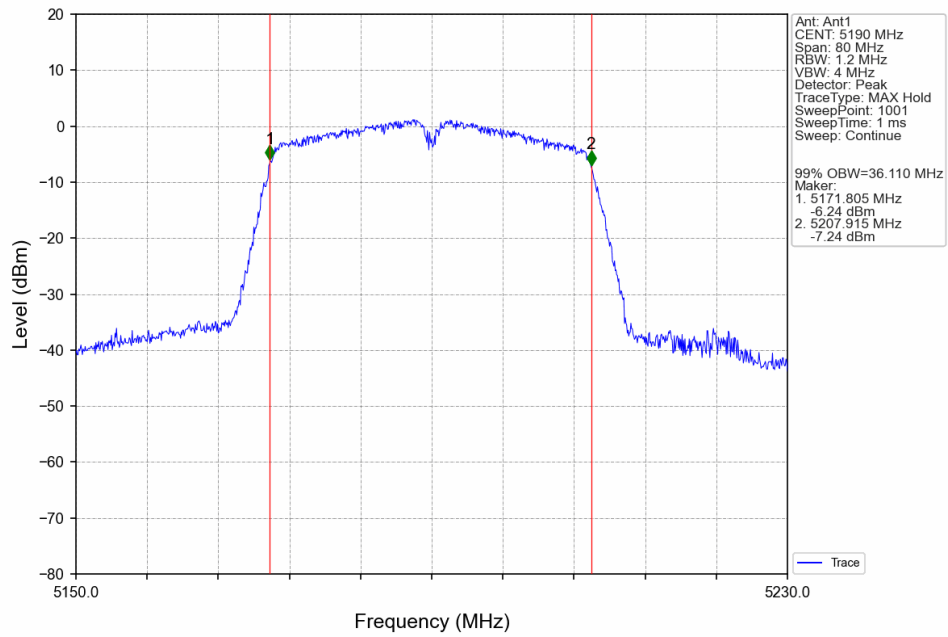


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

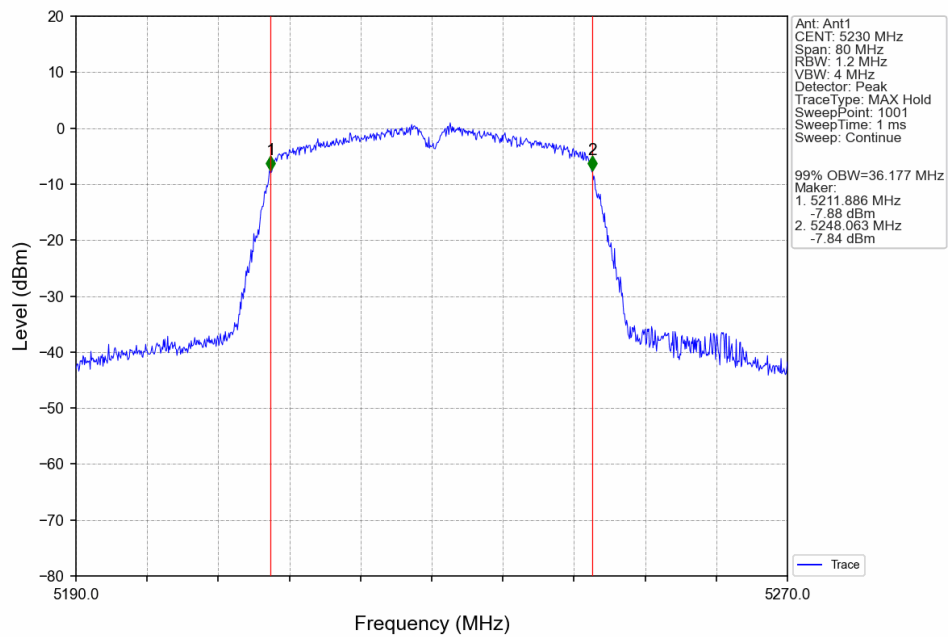




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

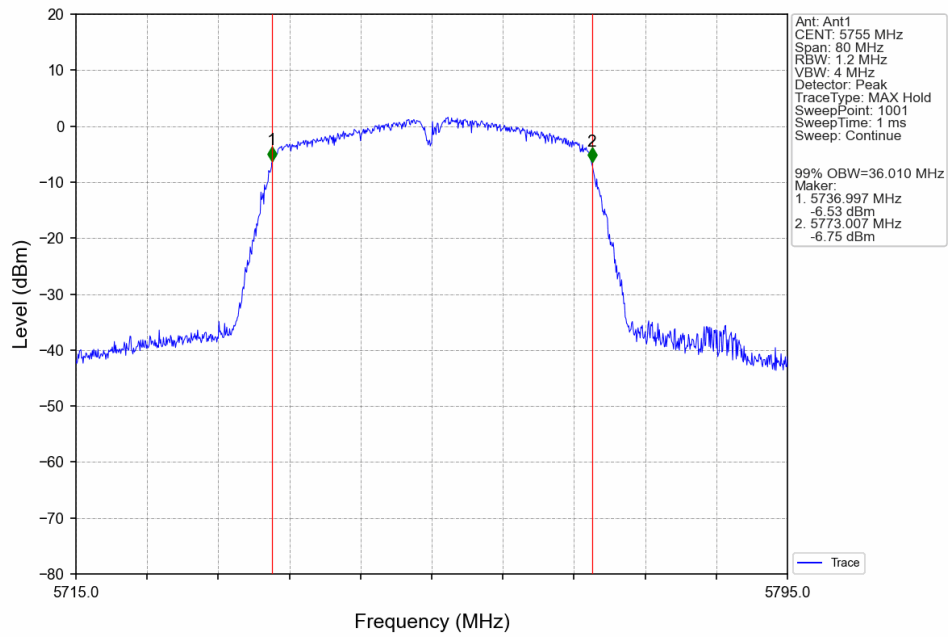


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

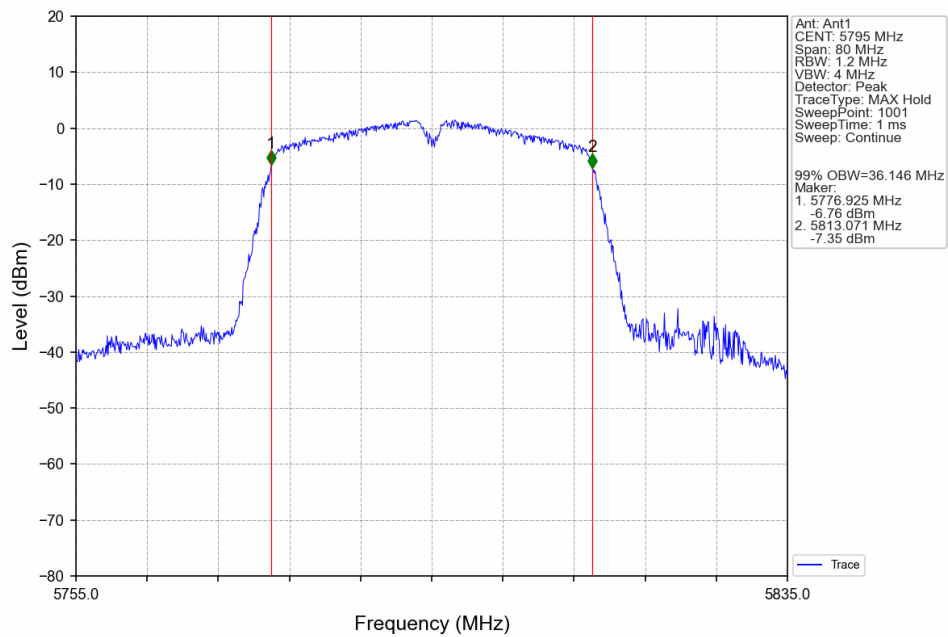




802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

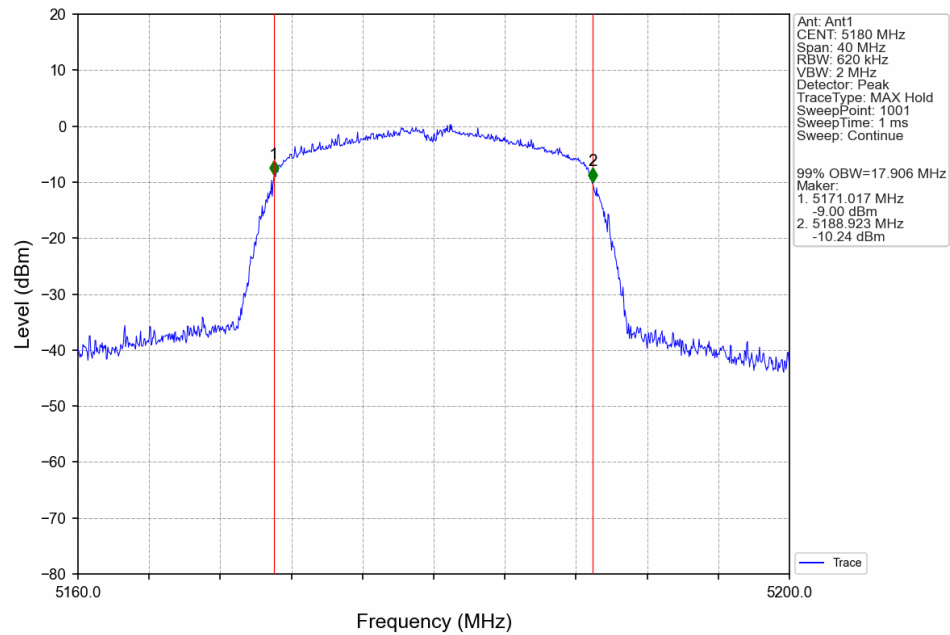


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

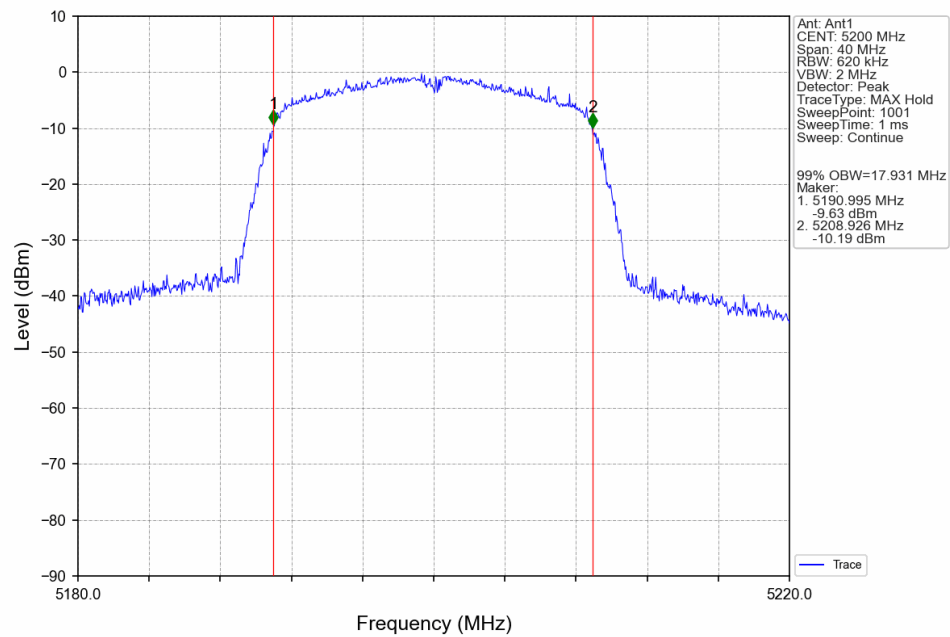




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

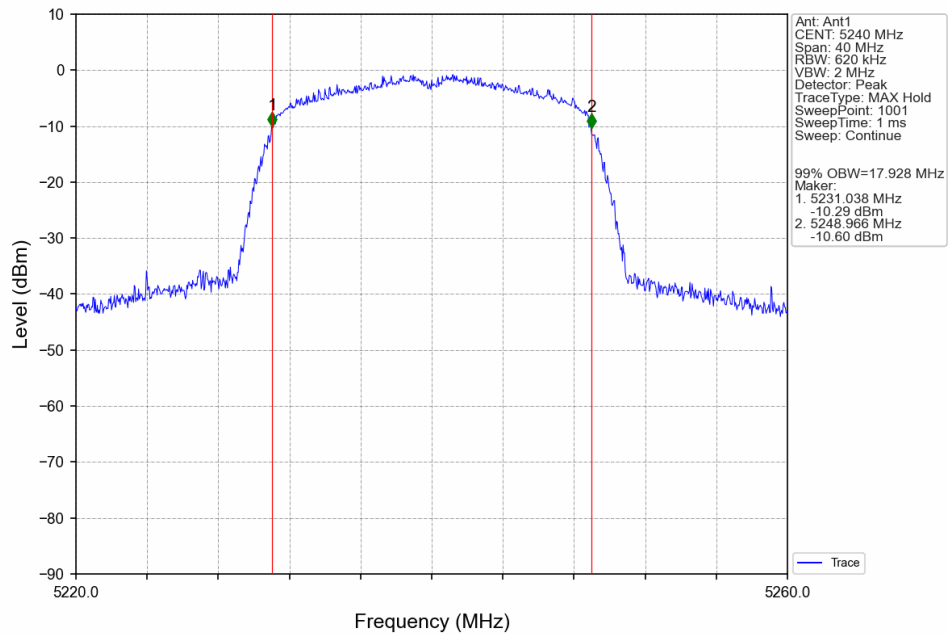


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

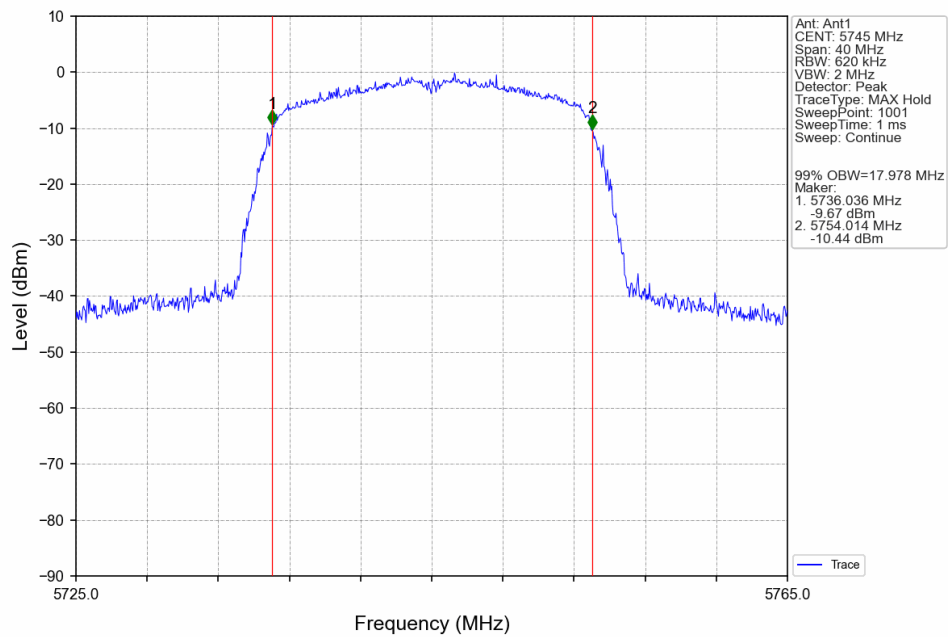




802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

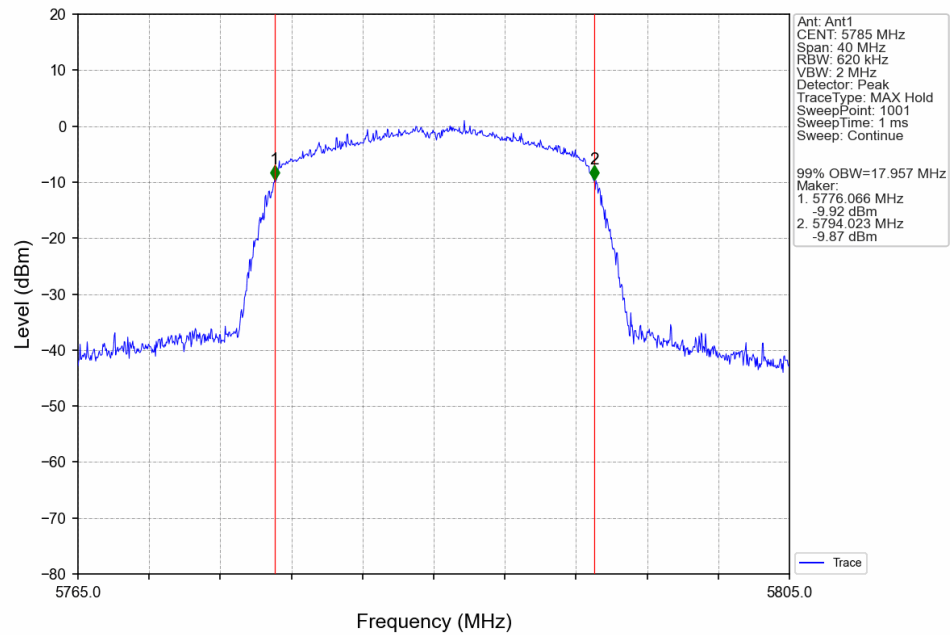


802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

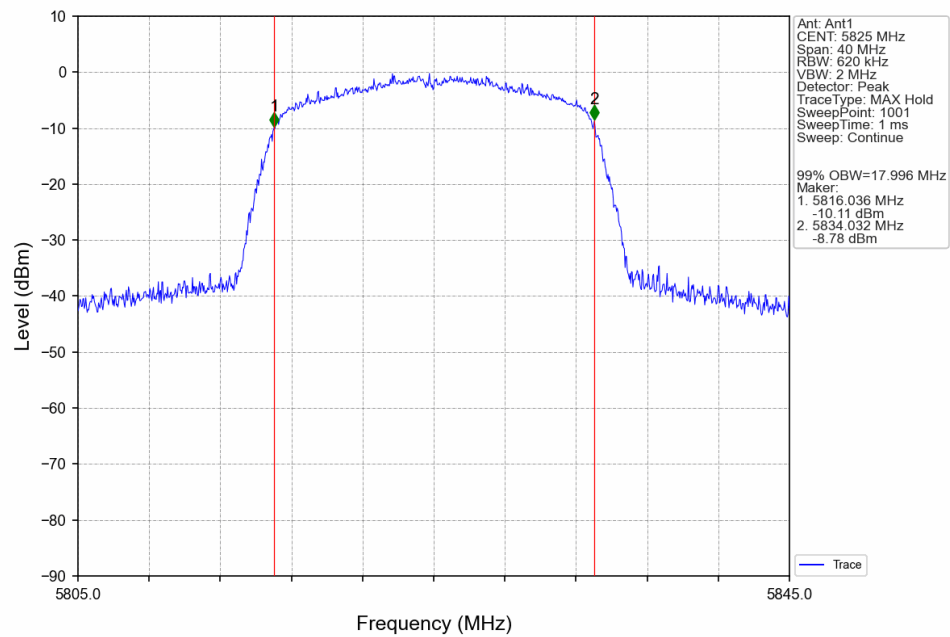




802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

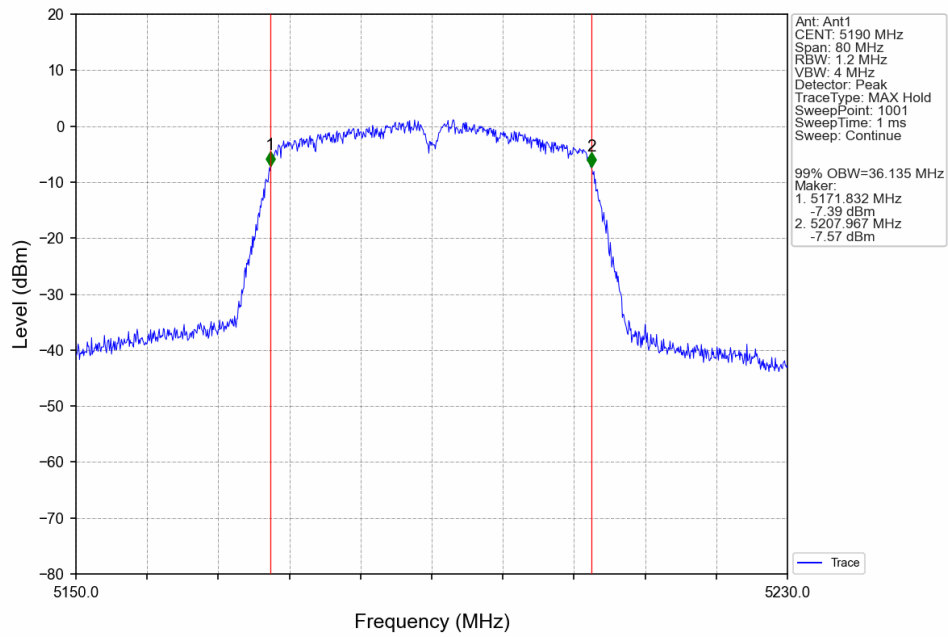


802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

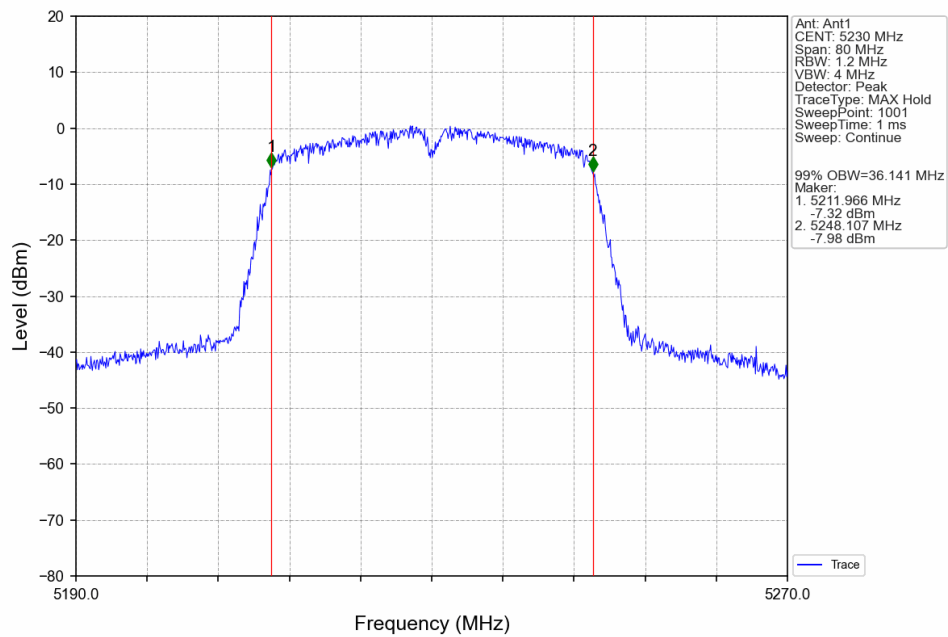




802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

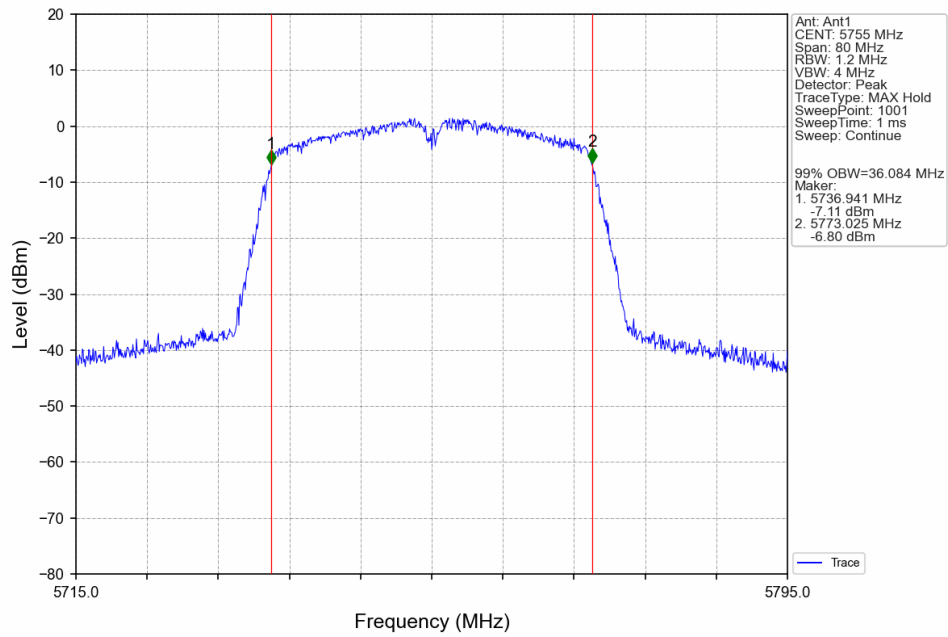


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

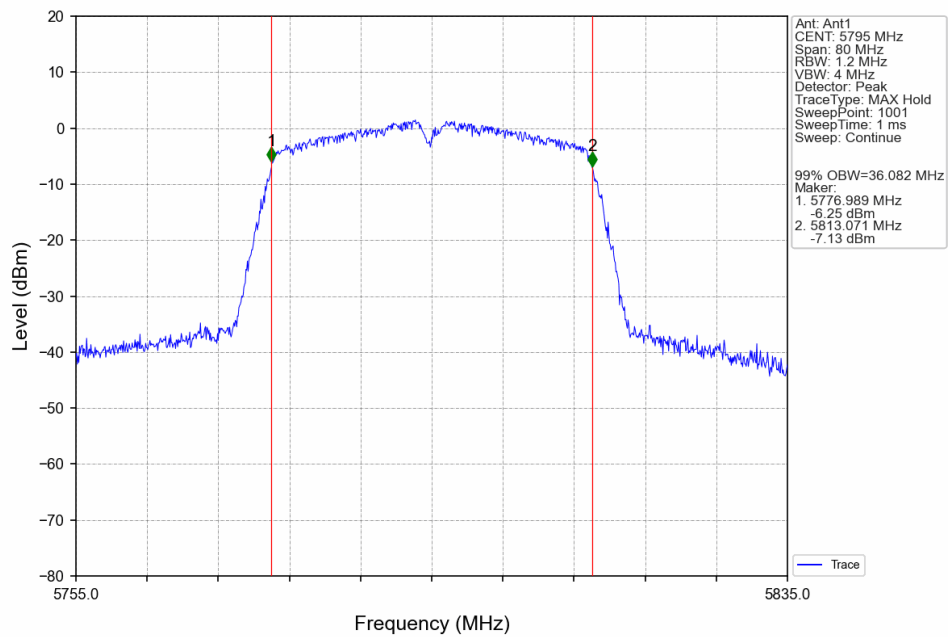




802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

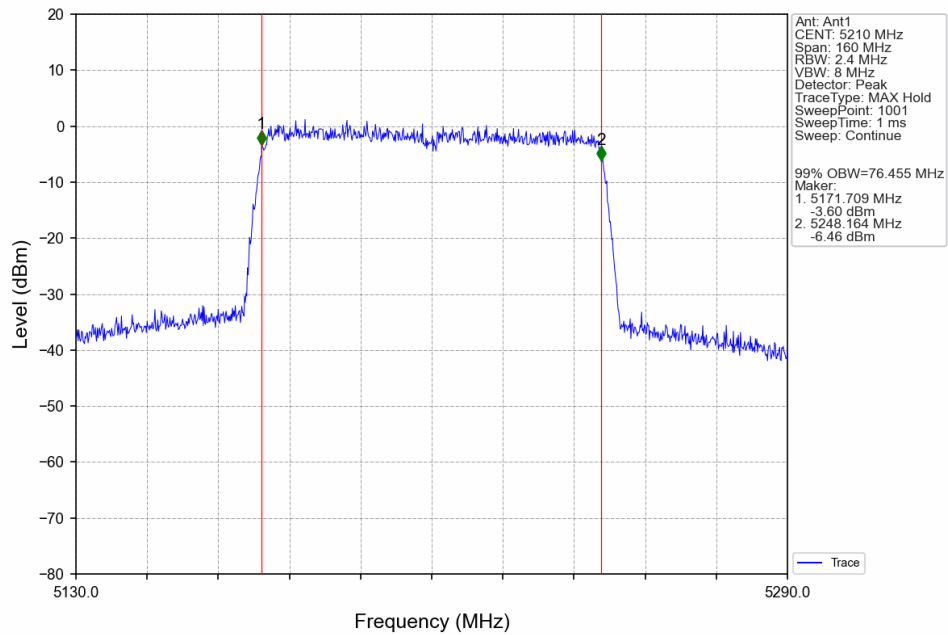


802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

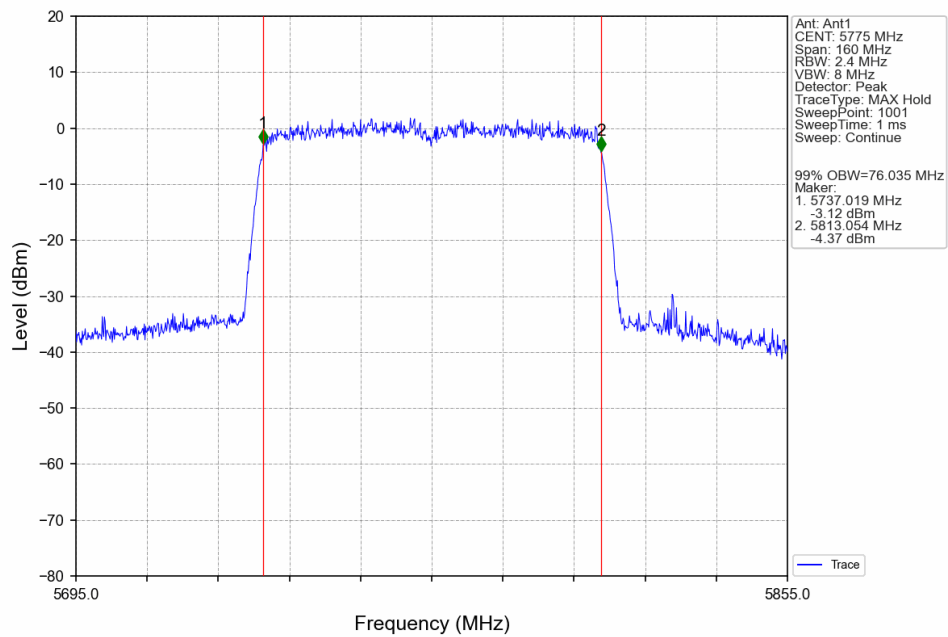




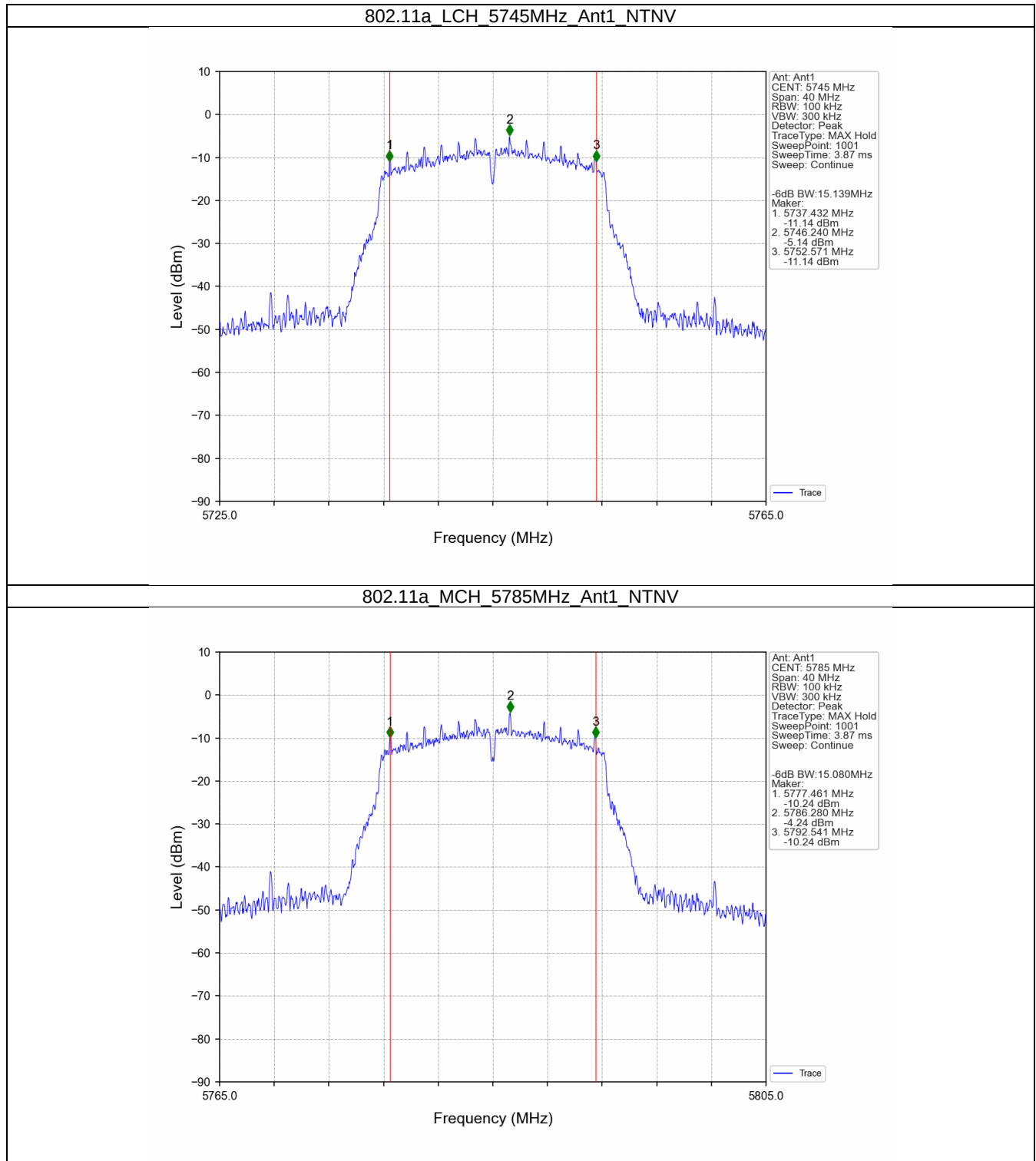
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

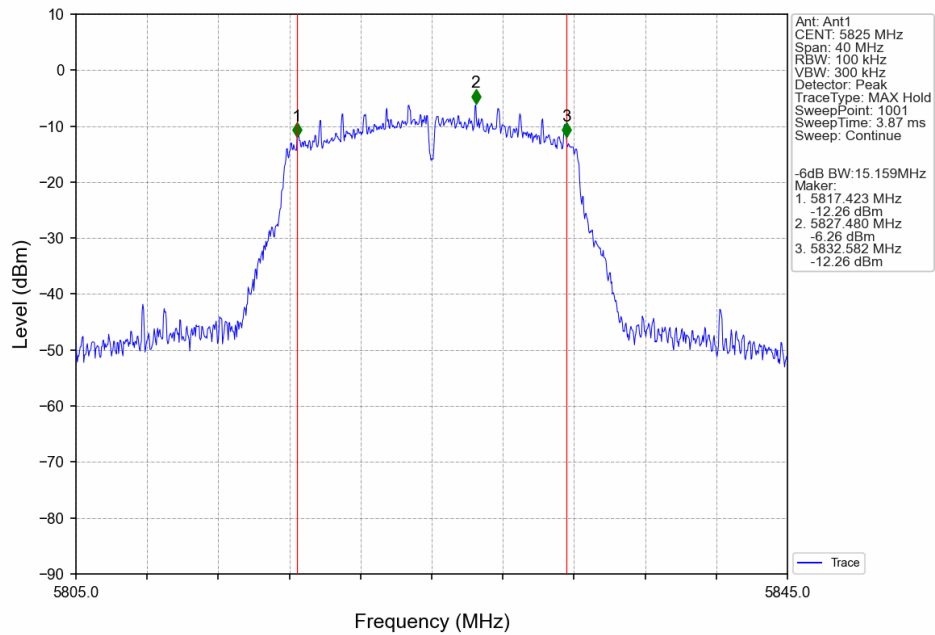


2.2.2 6dB BW

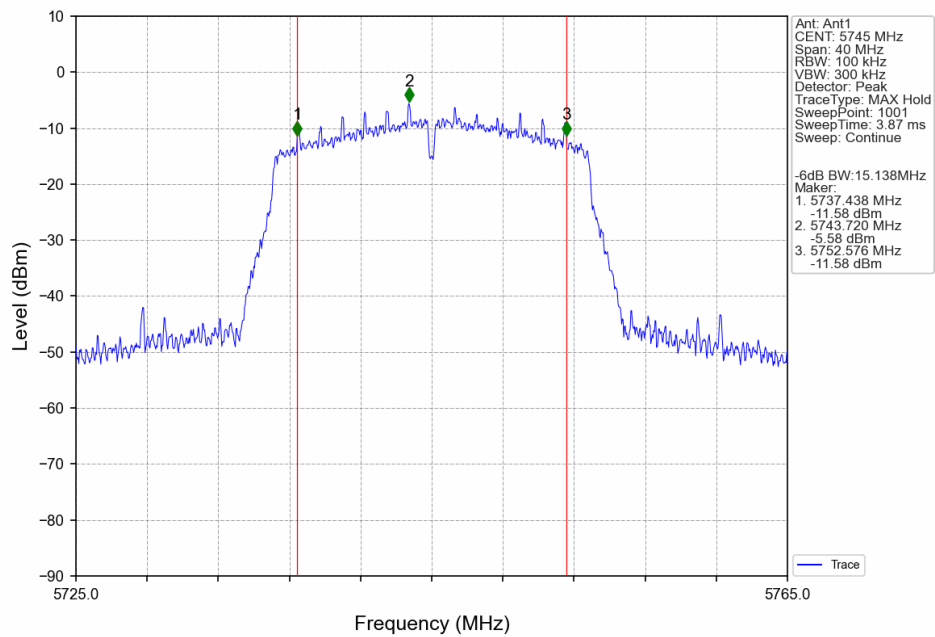




802.11a_HCH_5825MHz_Ant1_NTNV

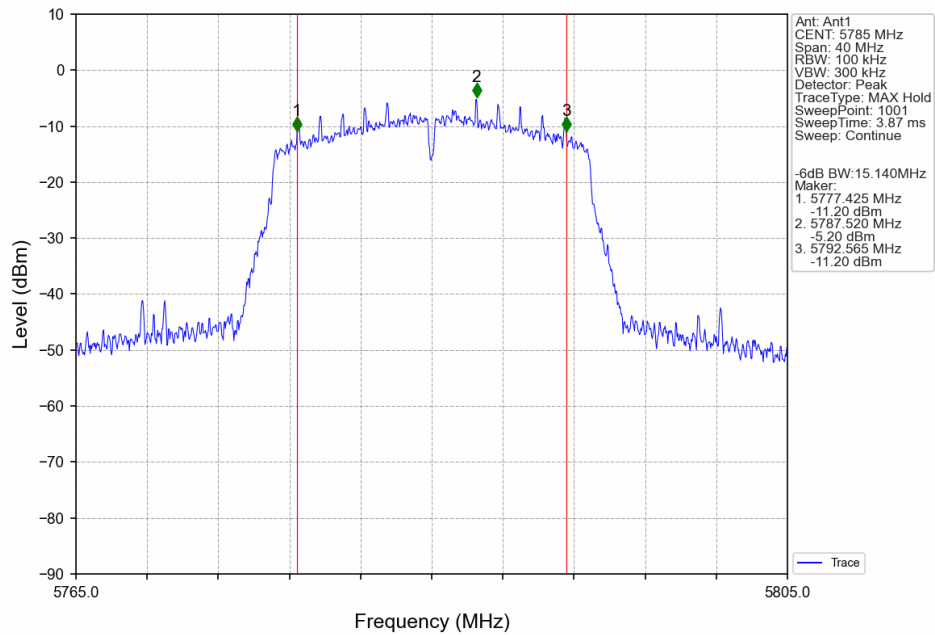


802.11n(HT20)_LCH_5745MHz_Ant1_NTNV

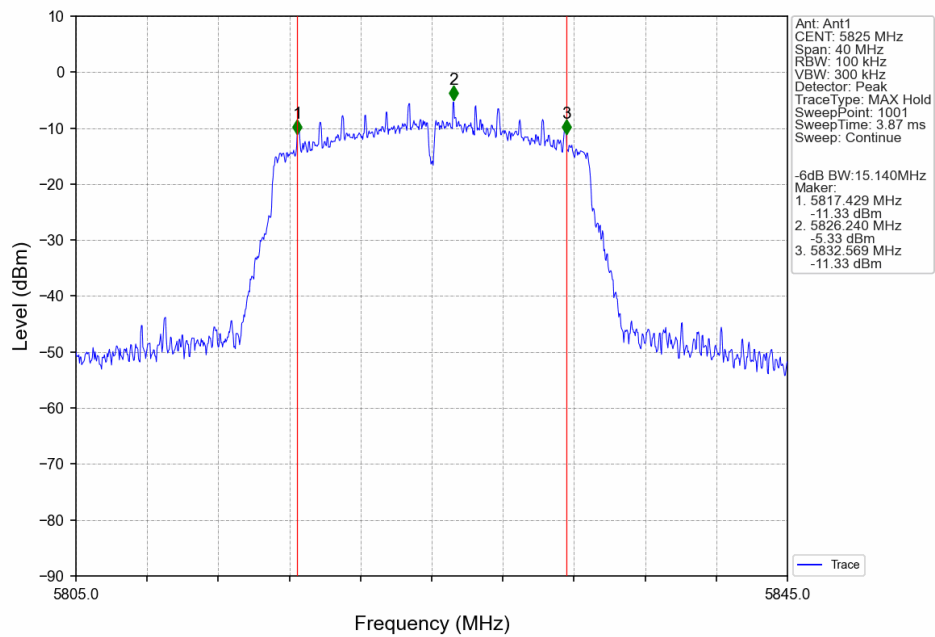




802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

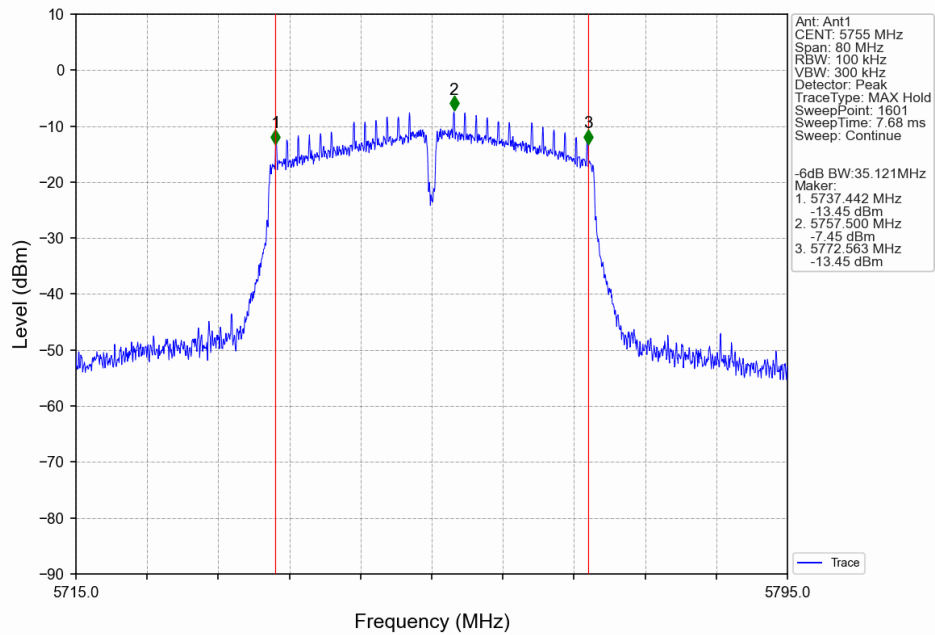


802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

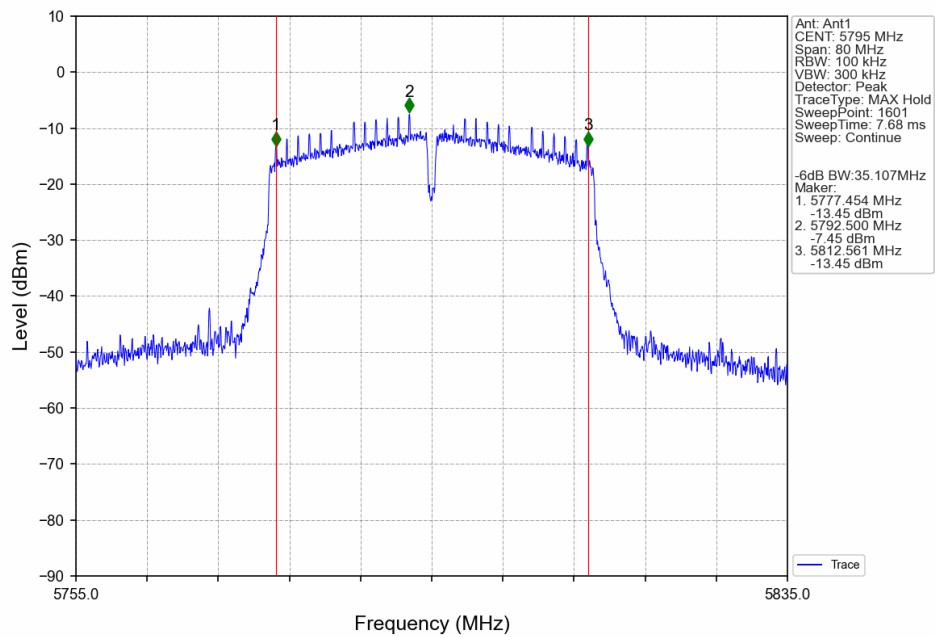




802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

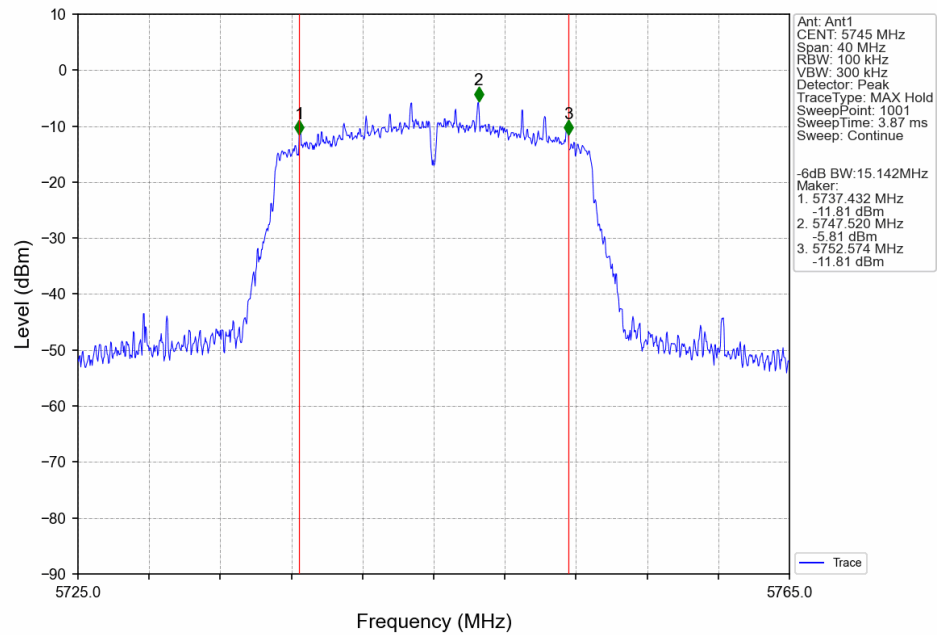


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

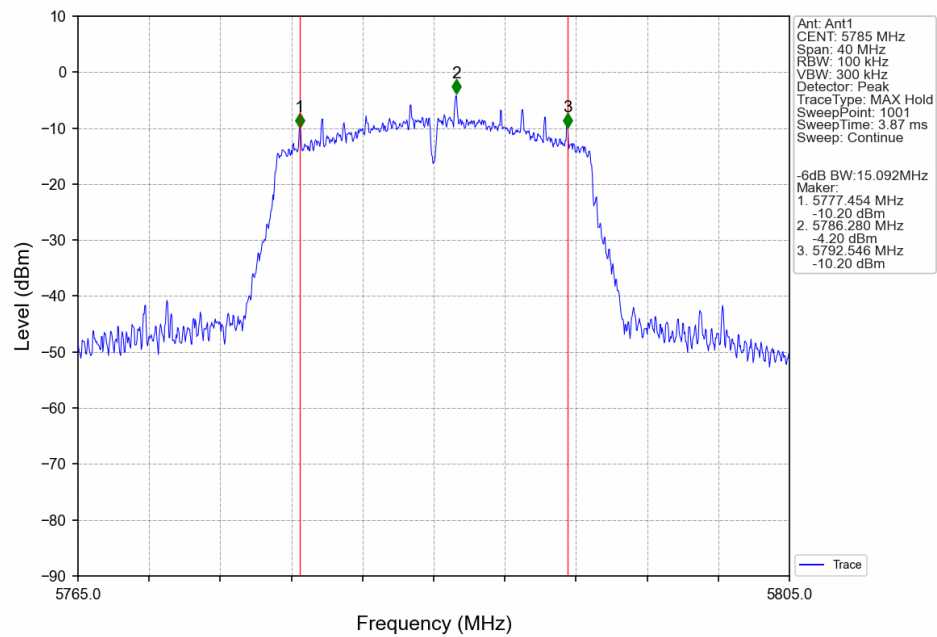




802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV

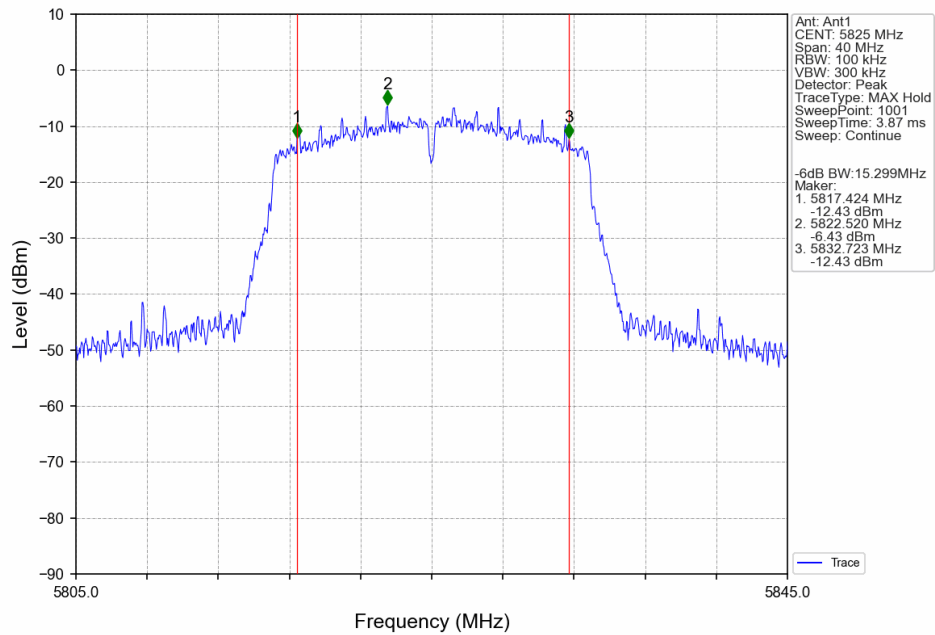


802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV

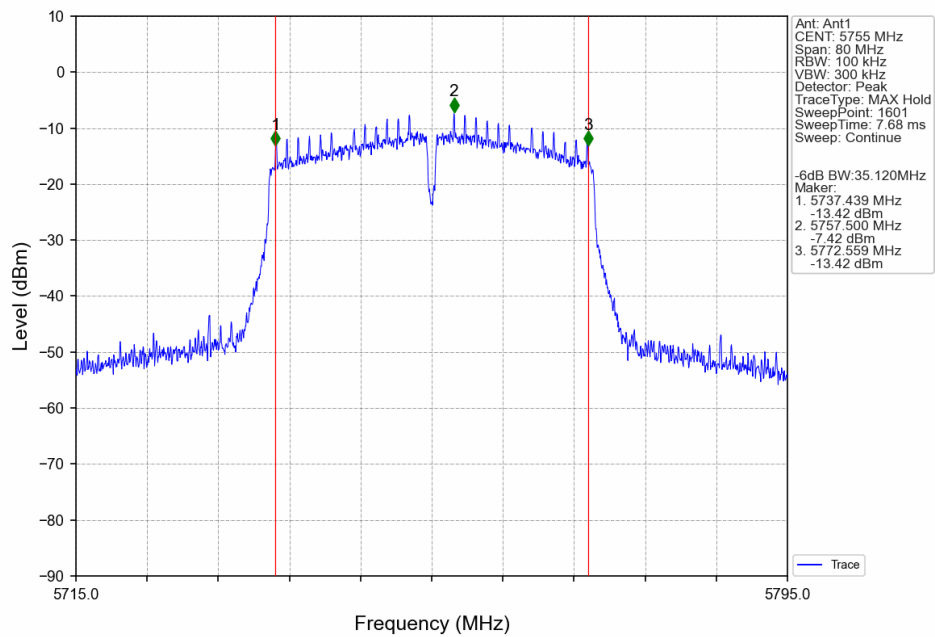




802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

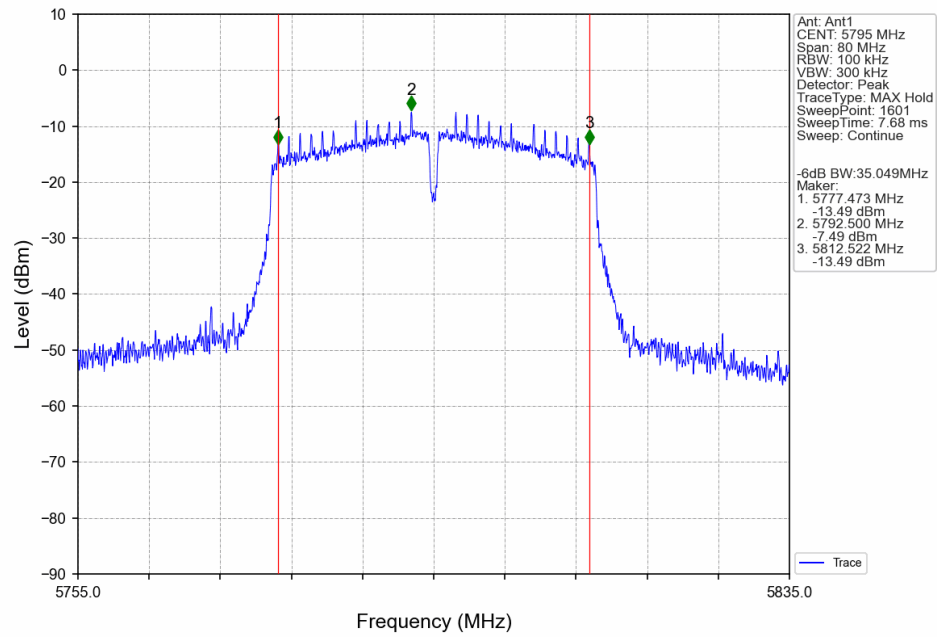


802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

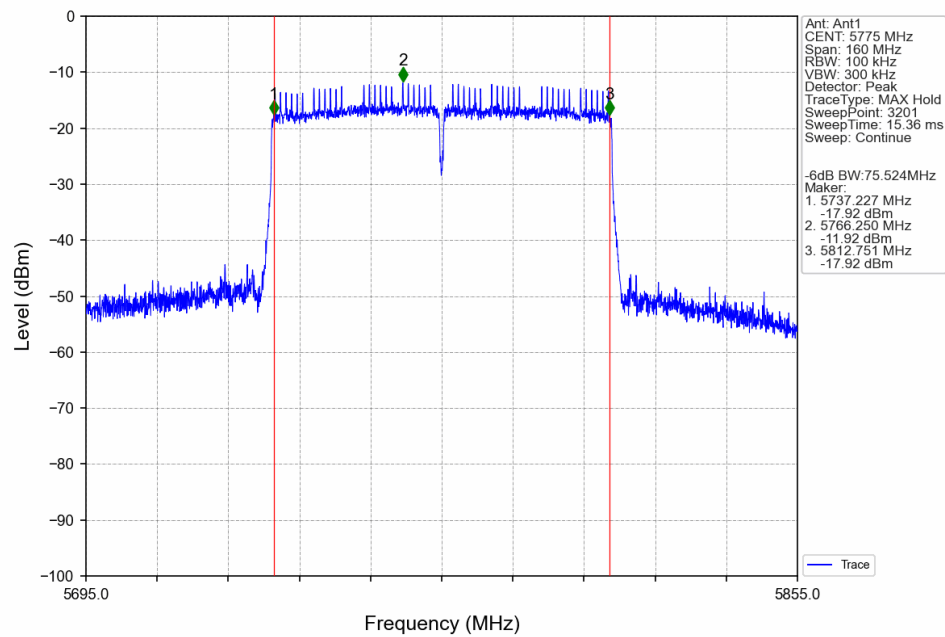




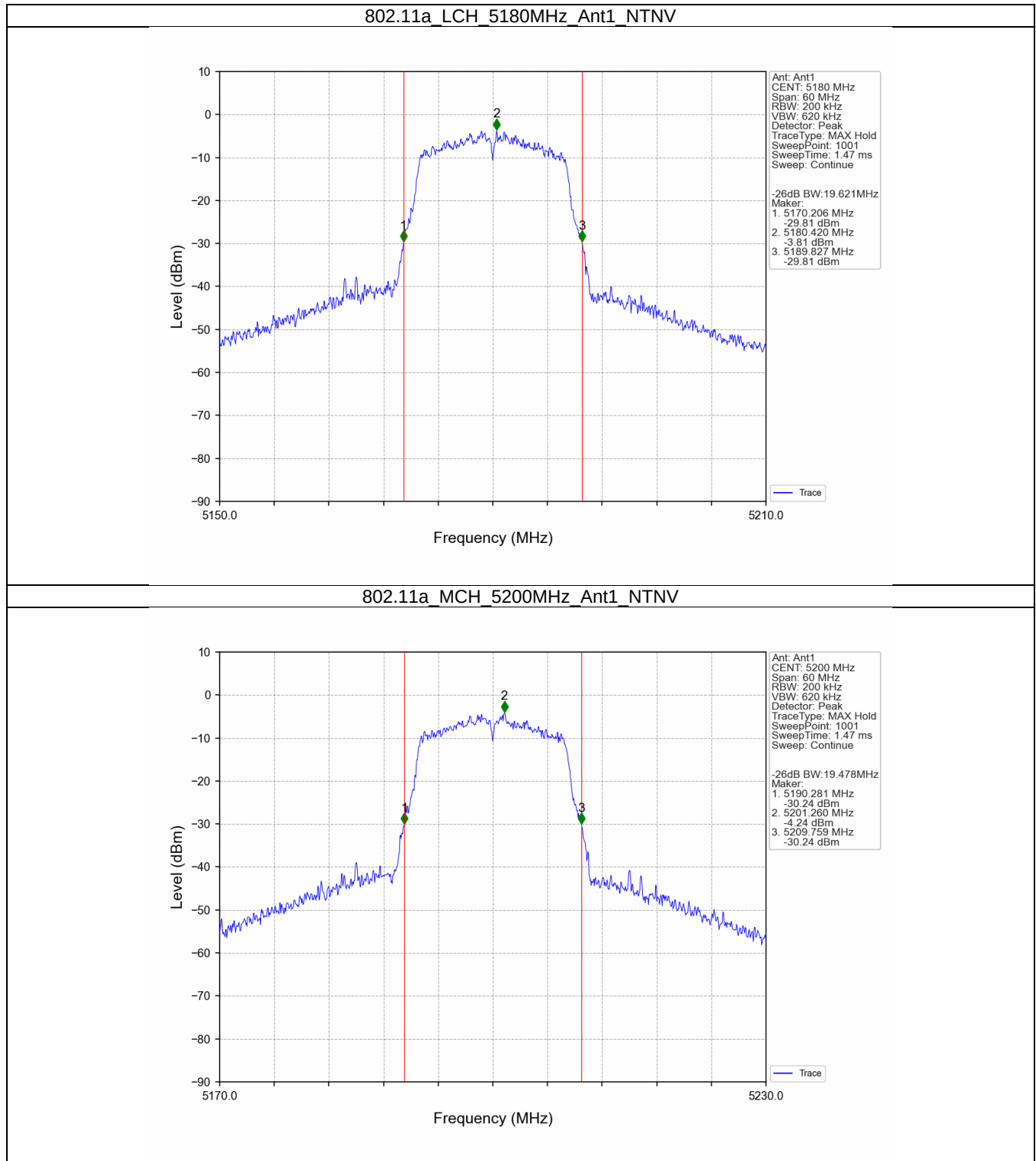
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



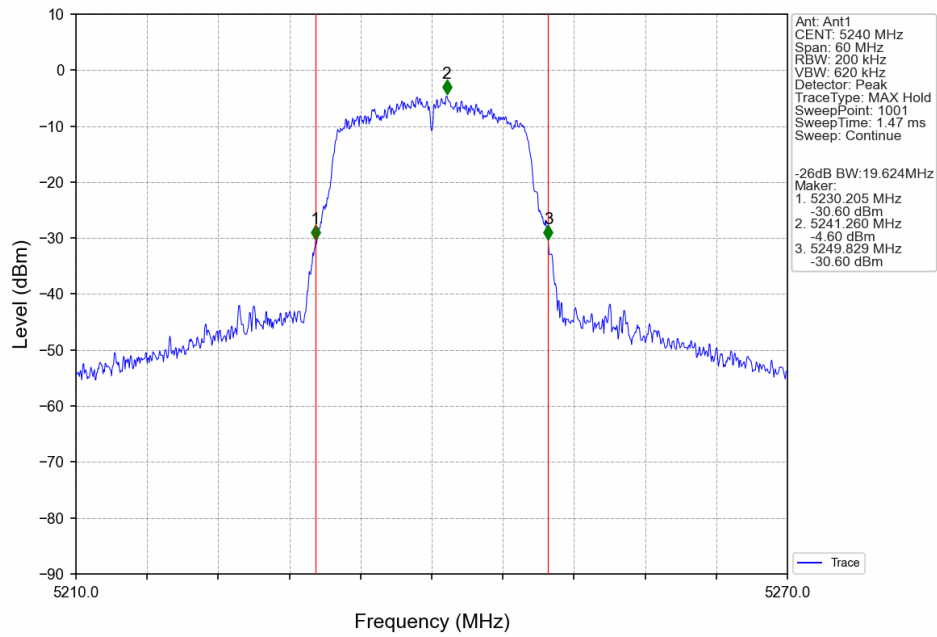
2.2.3 26dB BW



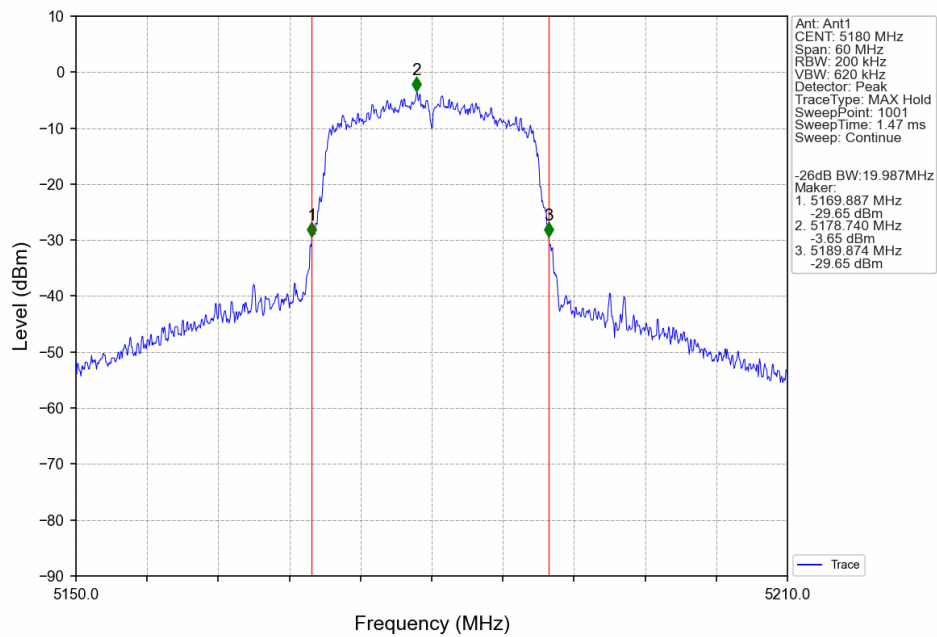


4

802.11a_HCH_5240MHz_Ant1_NTNV

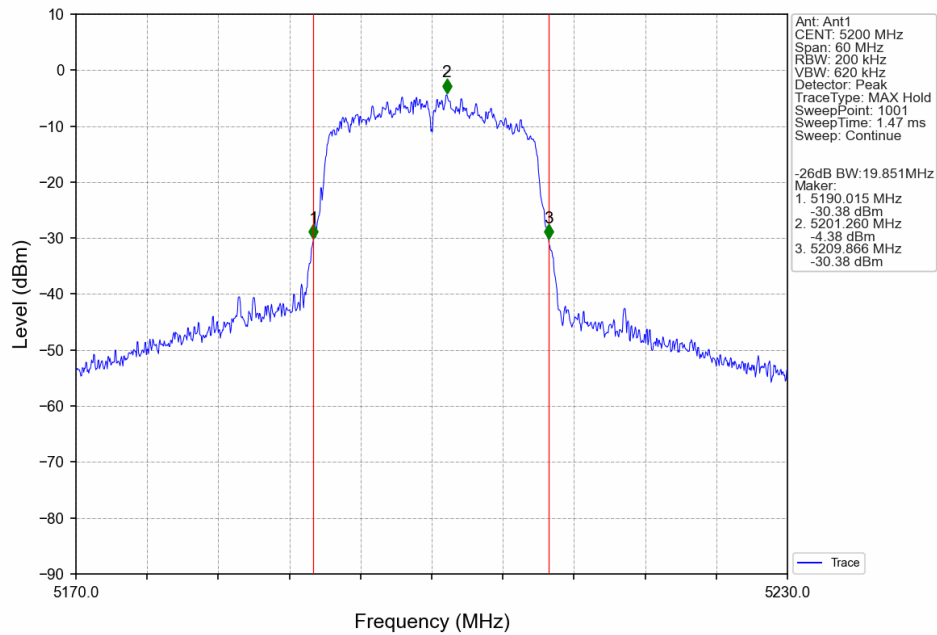


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

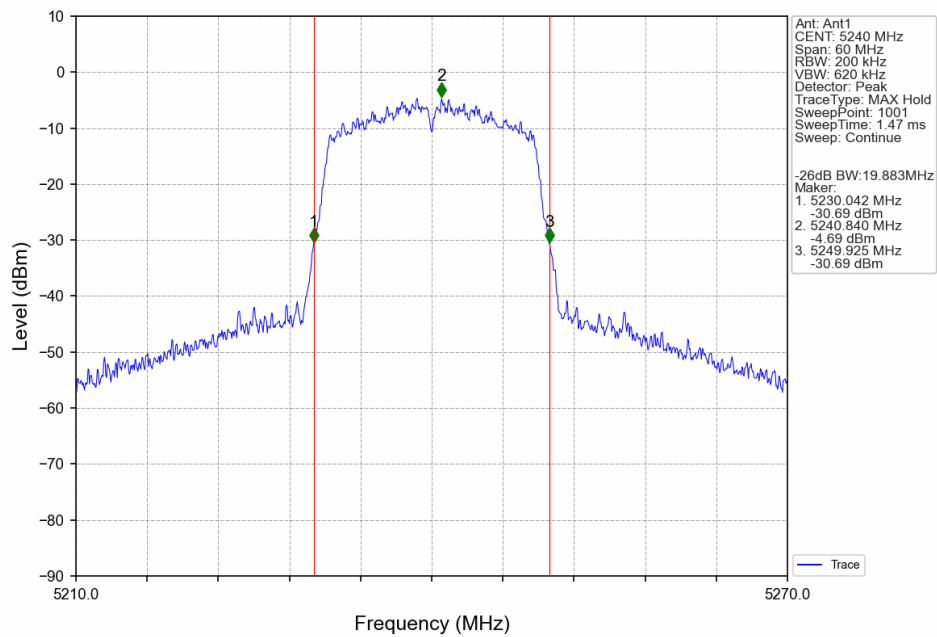




802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

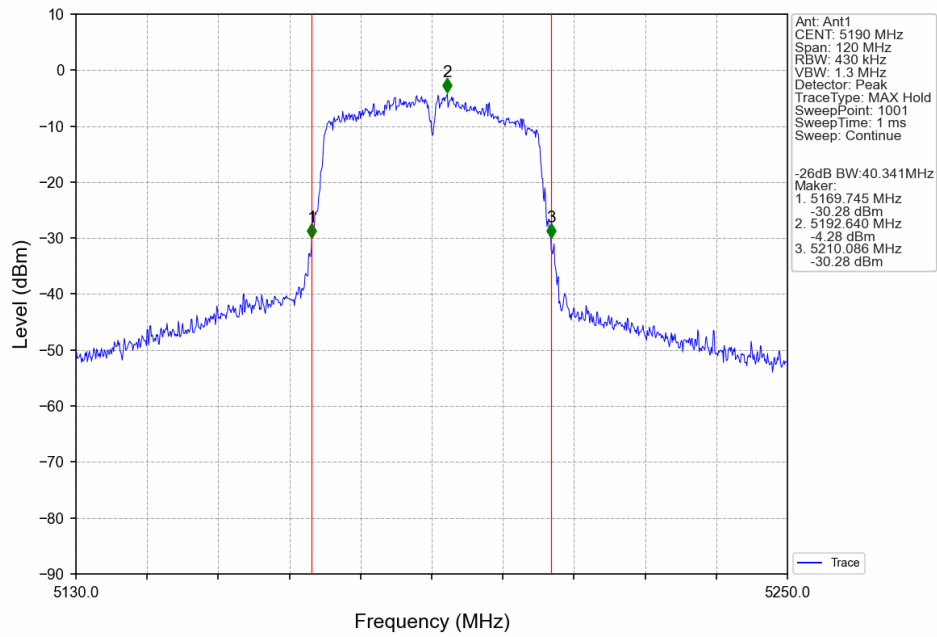


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

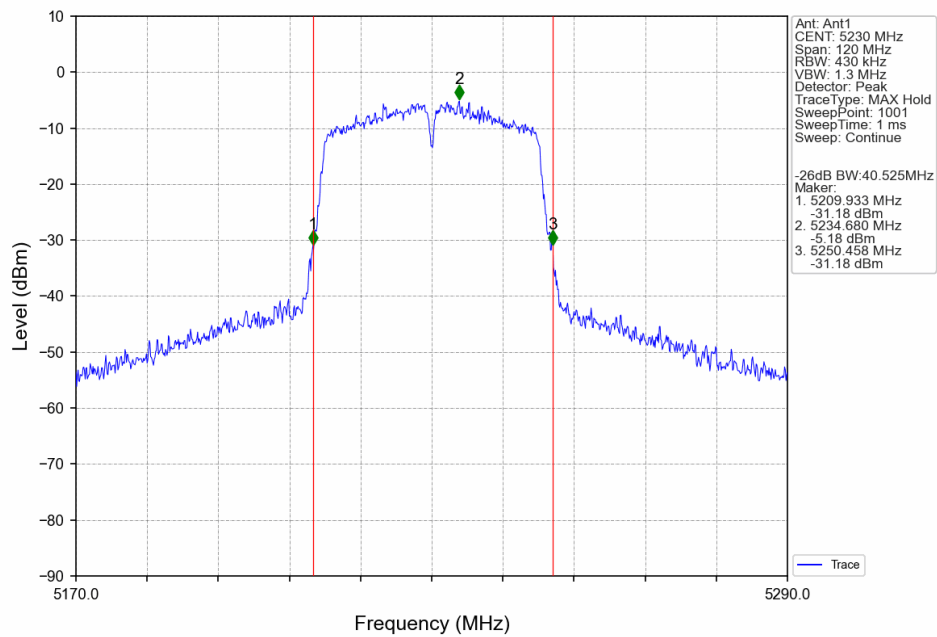




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

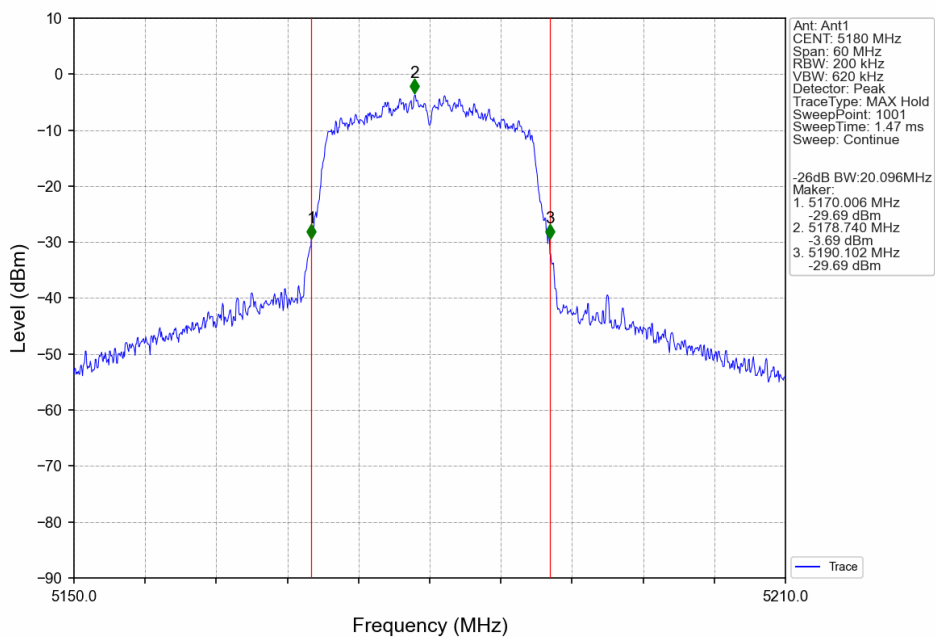


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

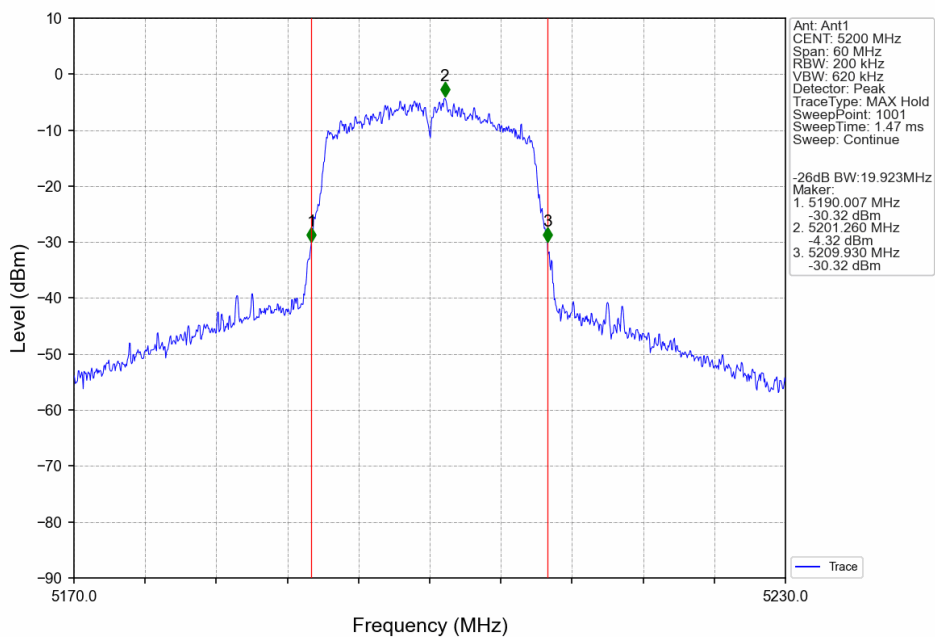




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

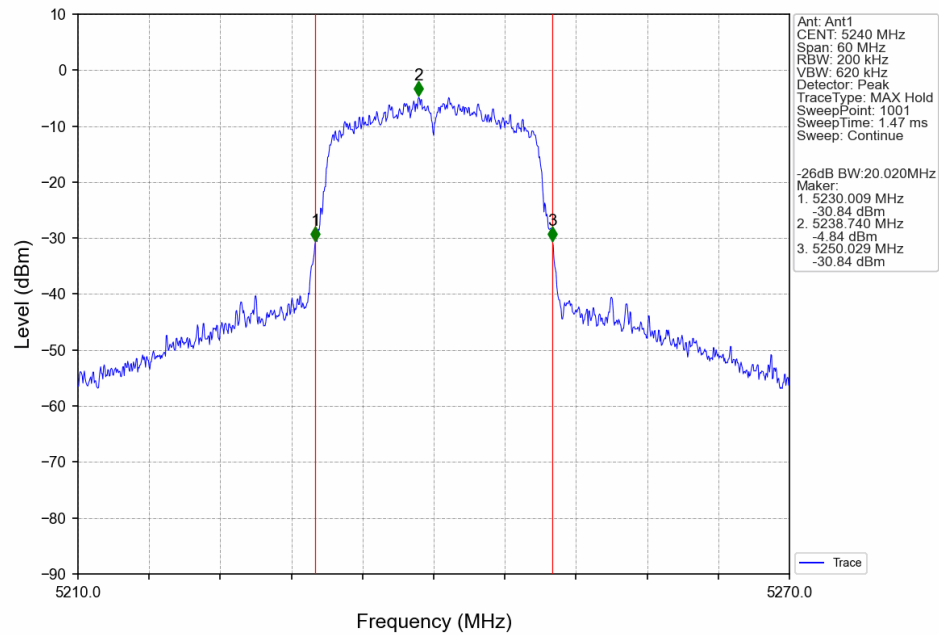


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

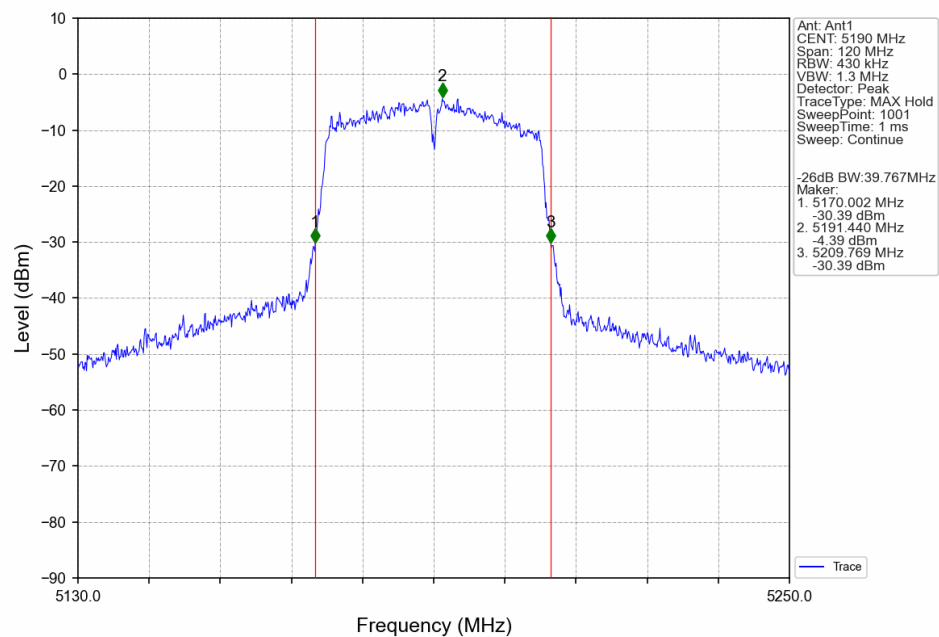




802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

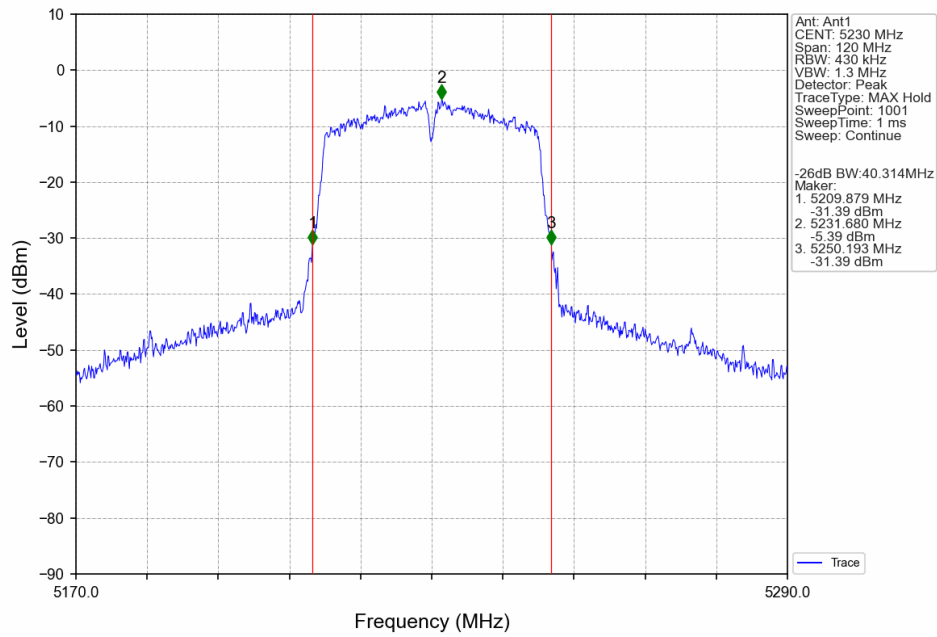


802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

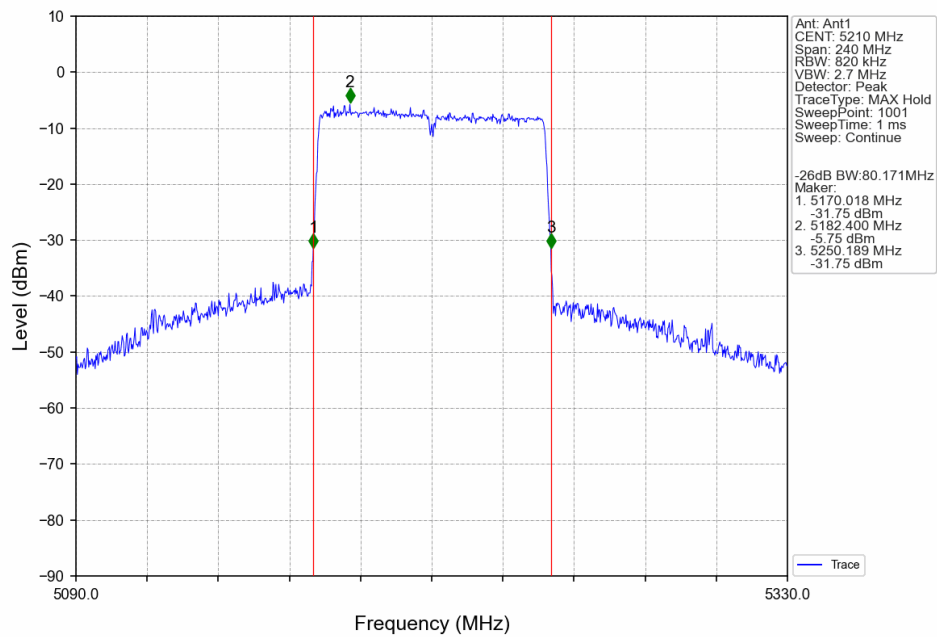




802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	11.01	<=23.98	Pass
		5200	10.46	<=23.98	Pass
		5240	9.94	<=23.98	Pass
		5745	10.59	<=30	Pass
		5785	10.93	<=30	Pass
		5825	9.75	<=30	Pass
802.11n (HT20)	SISO	5180	9.30	<=23.98	Pass
		5200	8.16	<=23.98	Pass
		5240	8.34	<=23.98	Pass
		5745	8.65	<=30	Pass
		5785	9.16	<=30	Pass
		5825	8.65	<=30	Pass
802.11n (HT40)	SISO	5190	8.40	<=23.98	Pass
		5230	7.69	<=23.98	Pass
		5755	8.69	<=30	Pass
		5795	8.89	<=30	Pass
802.11ac (VHT20)	SISO	5180	9.44	<=23.98	Pass
		5200	8.77	<=23.98	Pass
		5240	8.19	<=23.98	Pass
		5745	8.61	<=30	Pass
		5785	8.87	<=30	Pass
		5825	8.51	<=30	Pass
802.11ac (VHT40)	SISO	5190	8.62	<=23.98	Pass
		5230	7.56	<=23.98	Pass
		5755	8.47	<=30	Pass
		5795	8.18	<=30	Pass
802.11ac (VHT80)	SISO	5210	7.95	<=23.98	Pass
		5775	8.25	<=30	Pass

Note1: Antenna Gain: Ant1: 4.10dBi;

3.1.2 EIRP

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	15.11	<=22.32	Pass
		5200	14.56	<=22.33	Pass
		5240	14.04	<=22.32	Pass
		5745	14.69	/	Pass
		5785	15.03	/	Pass
		5825	13.85	/	Pass
802.11n (HT20)	SISO	5180	13.40	<=22.53	Pass
		5200	12.26	<=22.54	Pass
		5240	12.44	<=22.53	Pass
		5745	12.75	/	Pass
		5785	13.26	/	Pass
		5825	12.75	/	Pass
802.11n (HT40)	SISO	5190	12.50	<=23.01	Pass
		5230	11.79	<=23.01	Pass
		5755	12.79	/	Pass
		5795	12.99	/	Pass
802.11ac (VHT20)	SISO	5180	13.54	<=22.53	Pass
		5200	12.87	<=22.54	Pass
		5240	12.29	<=22.54	Pass
		5745	12.71	/	Pass
		5785	12.97	/	Pass
		5825	12.61	/	Pass
802.11ac (VHT40)	SISO	5190	12.72	<=23.01	Pass
		5230	11.66	<=23.01	Pass
		5755	12.57	/	Pass
		5795	12.28	/	Pass
802.11ac (VHT80)	SISO	5210	12.05	<=23.01	Pass
		5775	12.35	/	Pass
Note1: Antenna Gain: Ant1: 4.10dBi; Note2: E.I.R.P = Measured Power + Antenna Gain					



4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-4.31	<=11	Pass
		5200	0.61	<=11	Pass
		5240	0.19	<=11	Pass
802.11n (HT20)	SISO	5180	-0.53	<=11	Pass
		5200	-1.43	<=11	Pass
		5240	-1.71	<=11	Pass
802.11n (HT40)	SISO	5190	-4.61	<=11	Pass
		5230	-5.53	<=11	Pass
802.11ac (VHT20)	SISO	5180	-0.62	<=11	Pass
		5200	-1.15	<=11	Pass
		5240	-1.66	<=11	Pass
802.11ac (VHT40)	SISO	5190	-4.47	<=11	Pass
		5230	-5.70	<=11	Pass
802.11ac (VHT80)	SISO	5210	-9.46	<=11	Pass

Note1: Antenna Gain: Ant1: 4.10dBi;

4.1.2 PSD-Band3

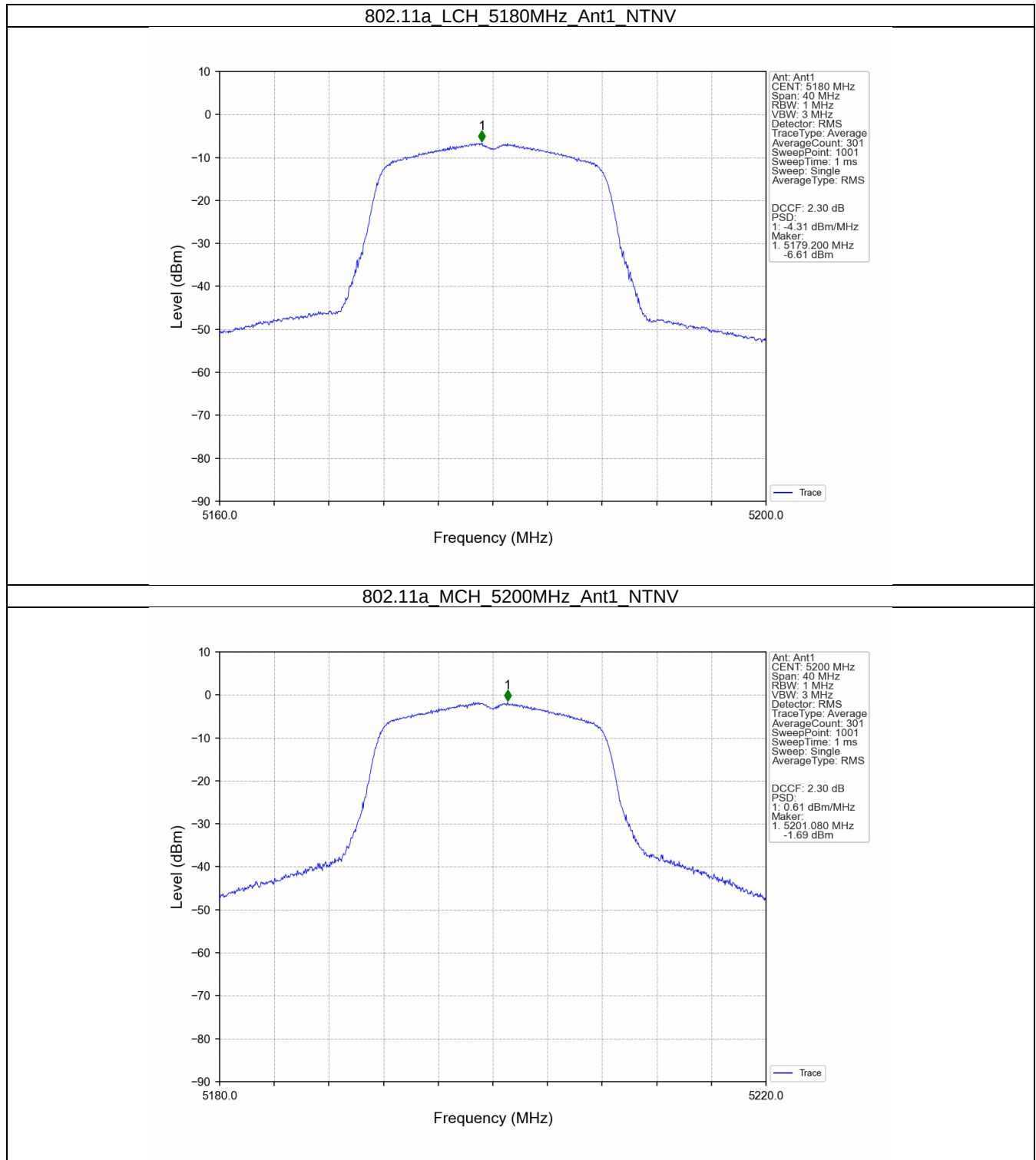
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5745	-1.77	<=30	Pass
		5785	-1.62	<=30	Pass
		5825	-2.75	<=30	Pass
802.11n (HT20)	SISO	5745	-4.24	<=30	Pass
		5785	-3.42	<=30	Pass
		5825	-4.17	<=30	Pass
802.11n (HT40)	SISO	5755	-7.22	<=30	Pass
		5795	-7.19	<=30	Pass
802.11ac (VHT20)	SISO	5745	-4.07	<=30	Pass
		5785	-3.90	<=30	Pass
		5825	-4.63	<=30	Pass
802.11ac (VHT40)	SISO	5755	-7.46	<=30	Pass
		5795	-7.81	<=30	Pass
802.11ac (VHT80)	SISO	5775	-11.67	<=30	Pass

Note1: Antenna Gain: Ant1: 4.10dBi;



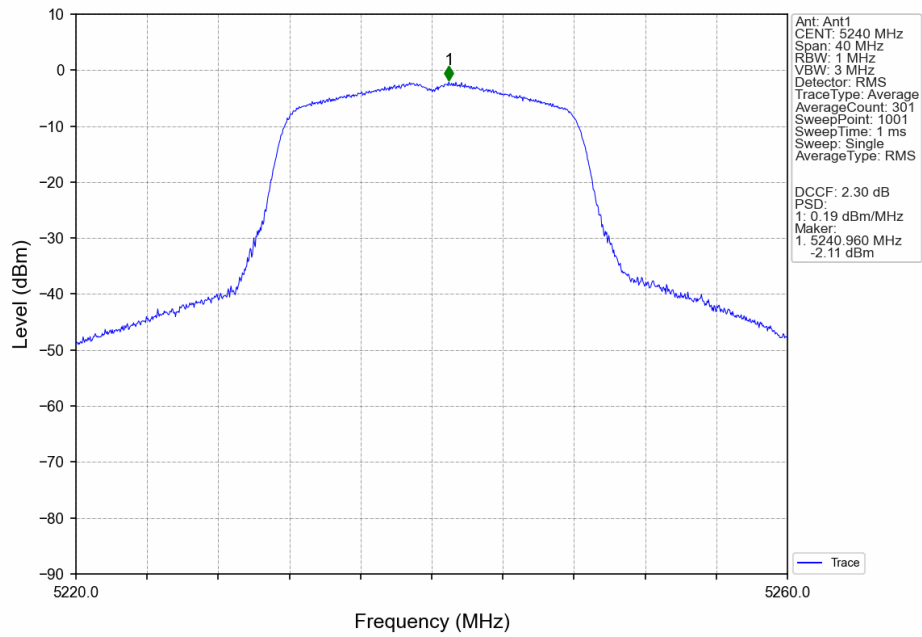
4.2 Test Graph

4.2.1 PSD

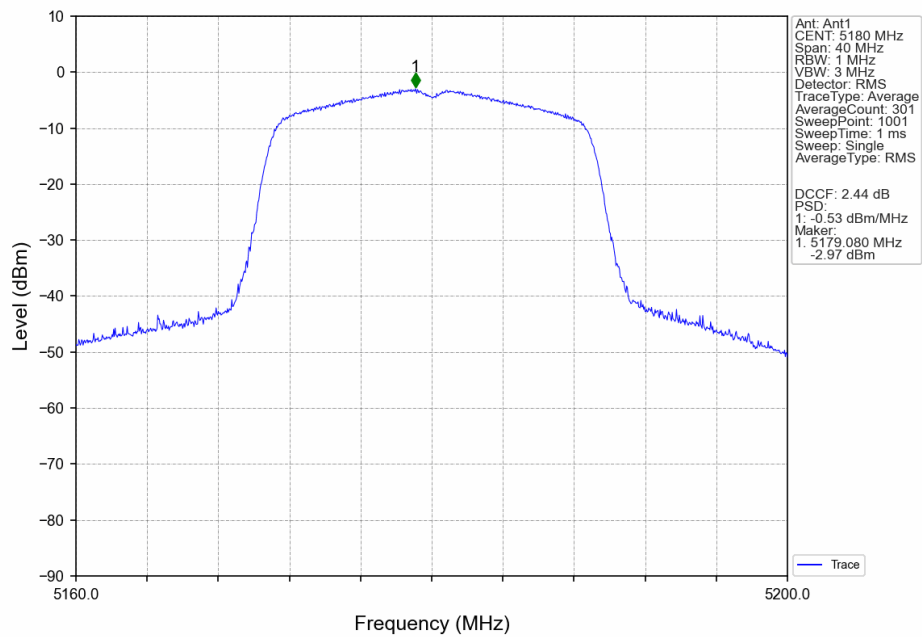




802.11a_HCH_5240MHz_Ant1_NTNV

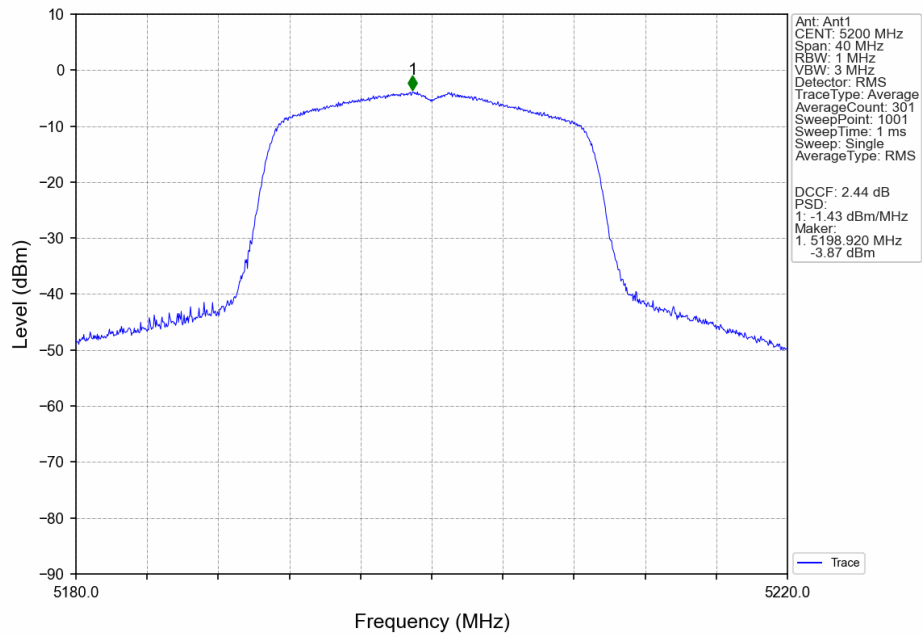


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

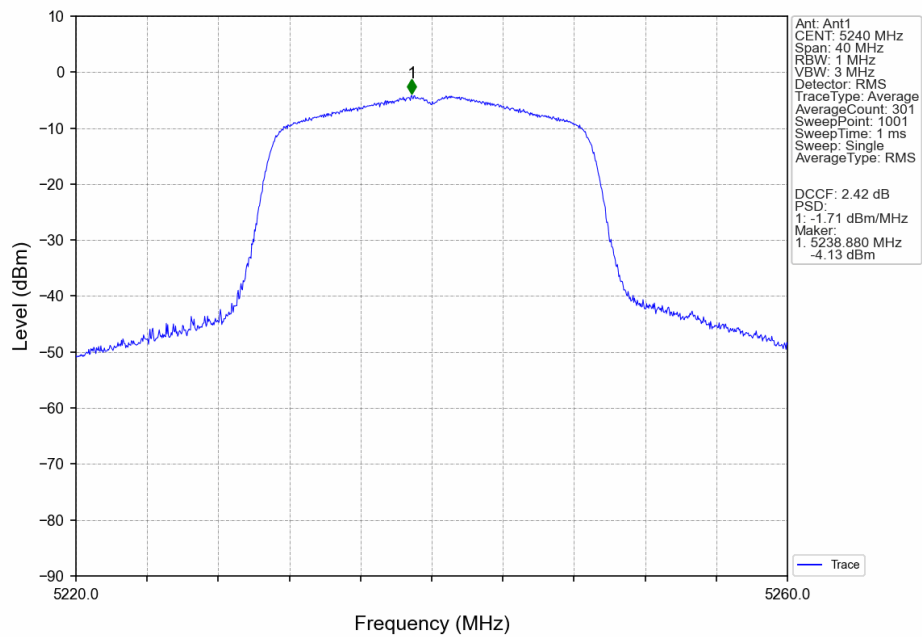




802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

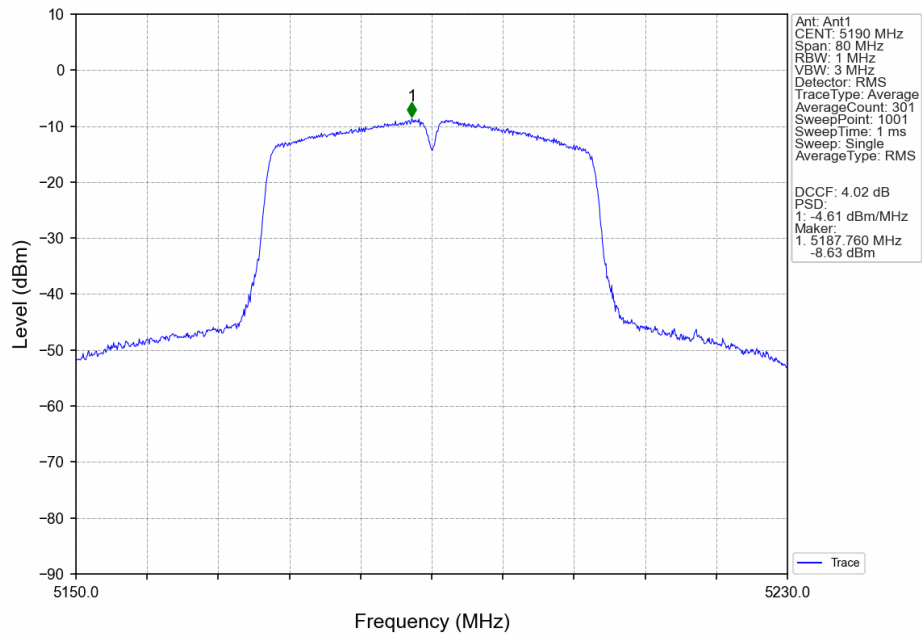


802.11n(HT20)_HCH_5240MHz_Ant1_NTNV

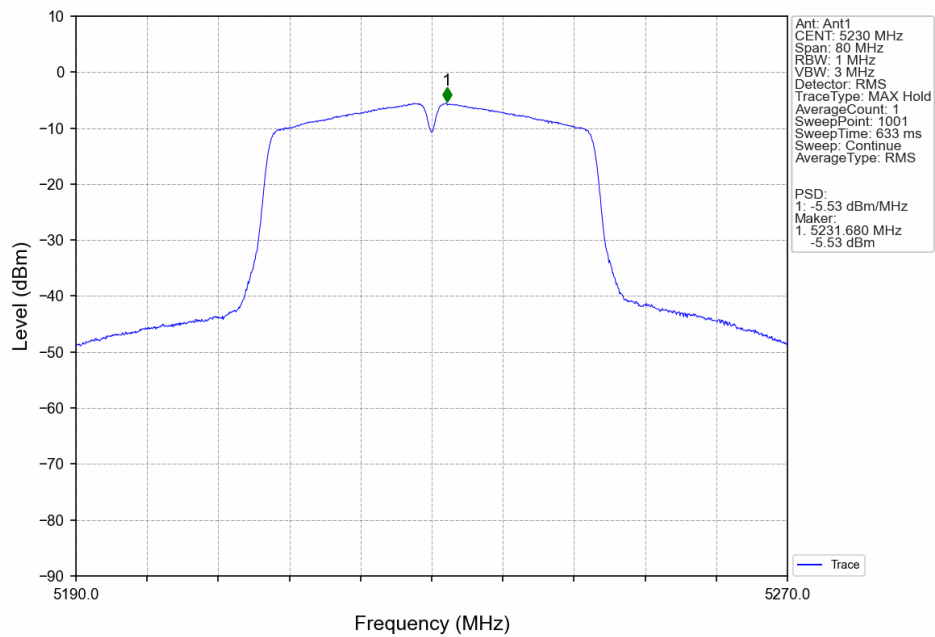




802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

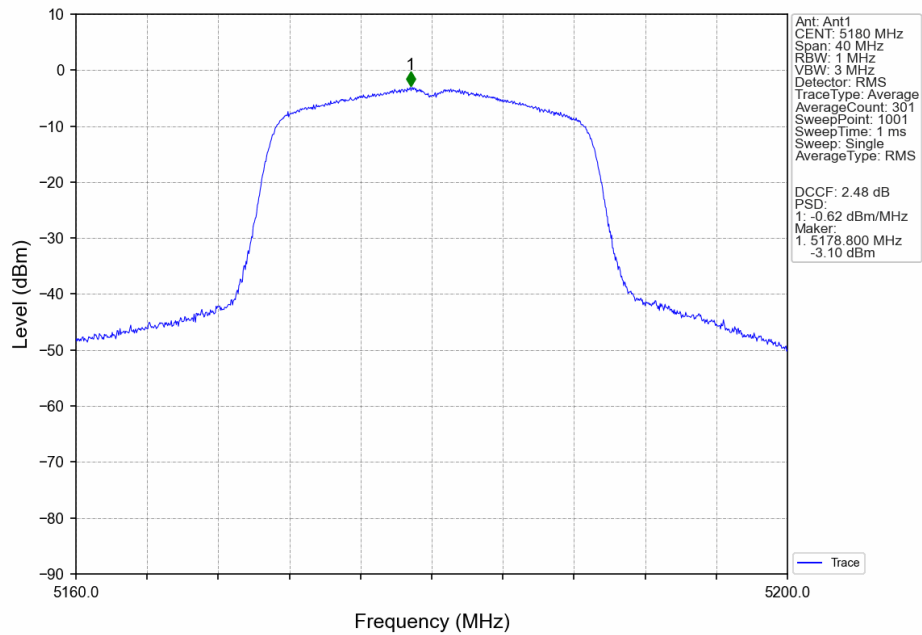


802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

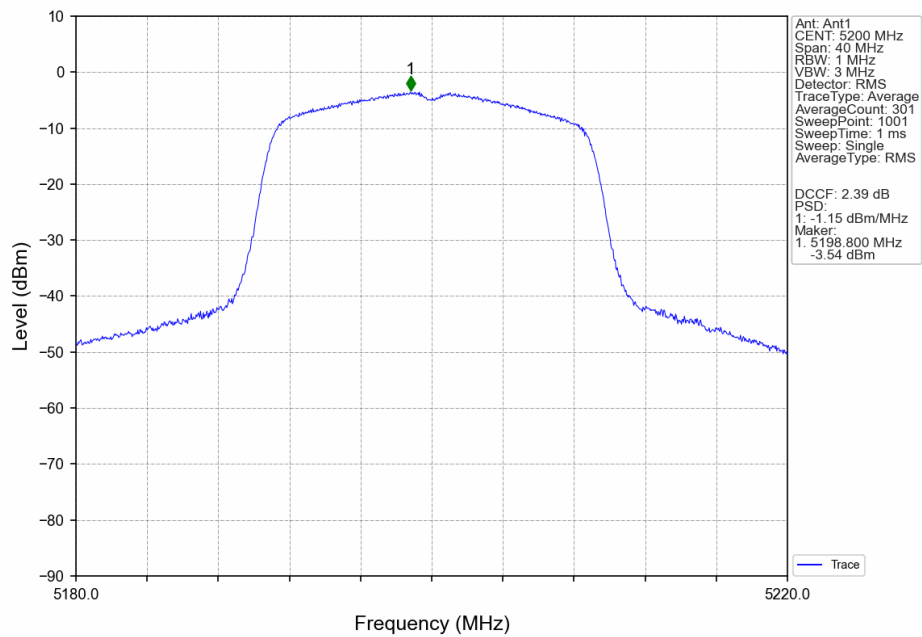




802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

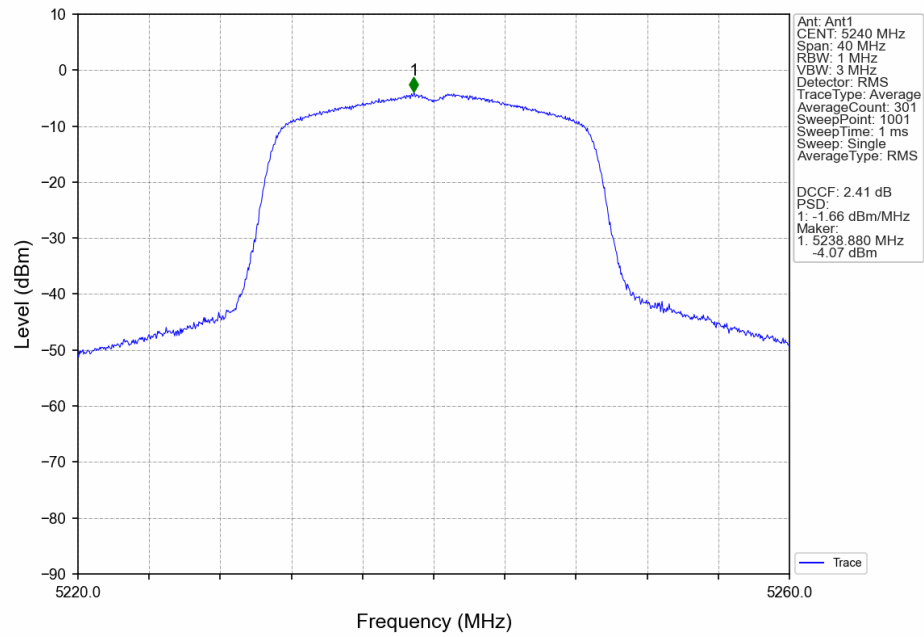


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

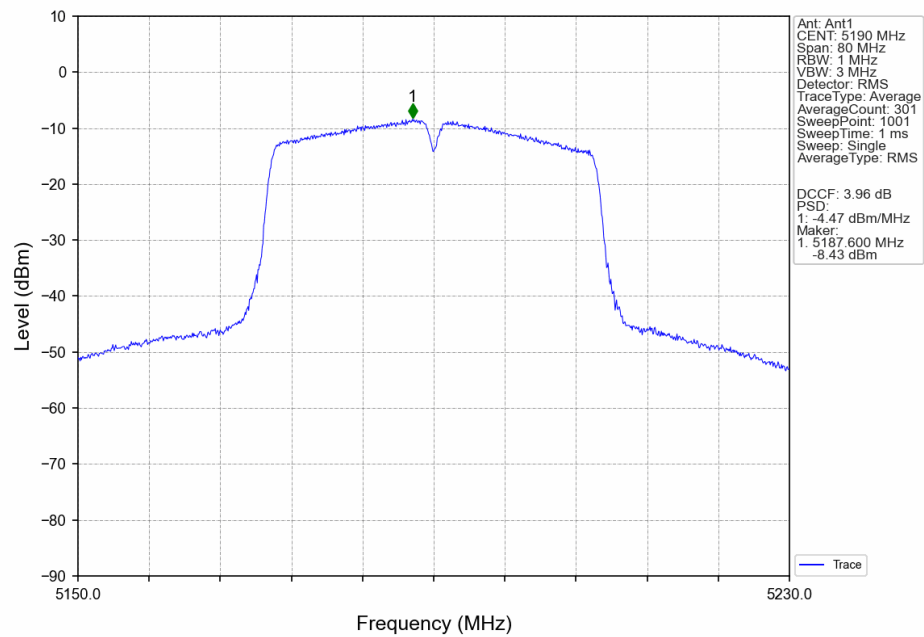




802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

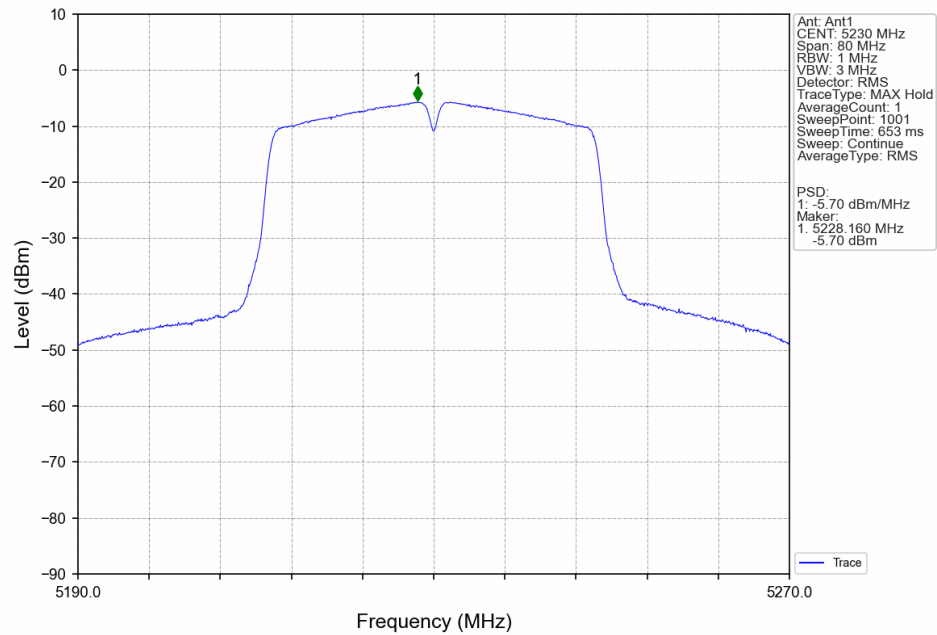


802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV





802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV

