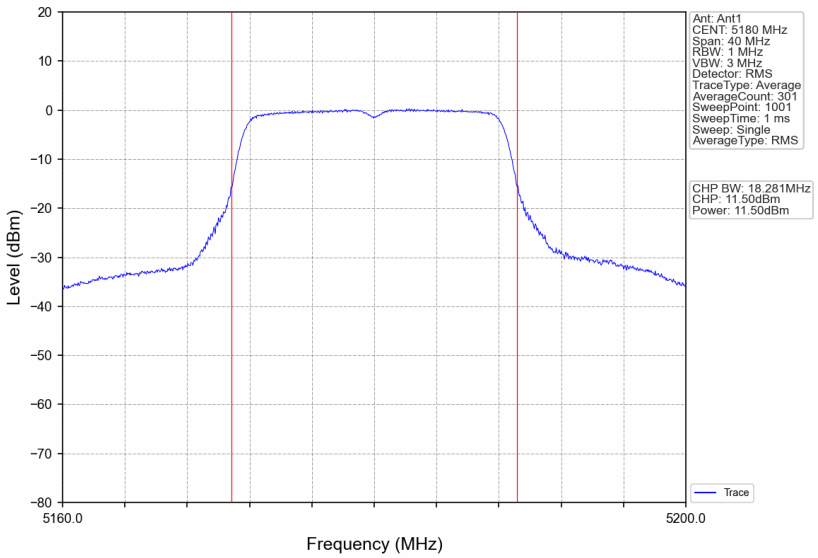
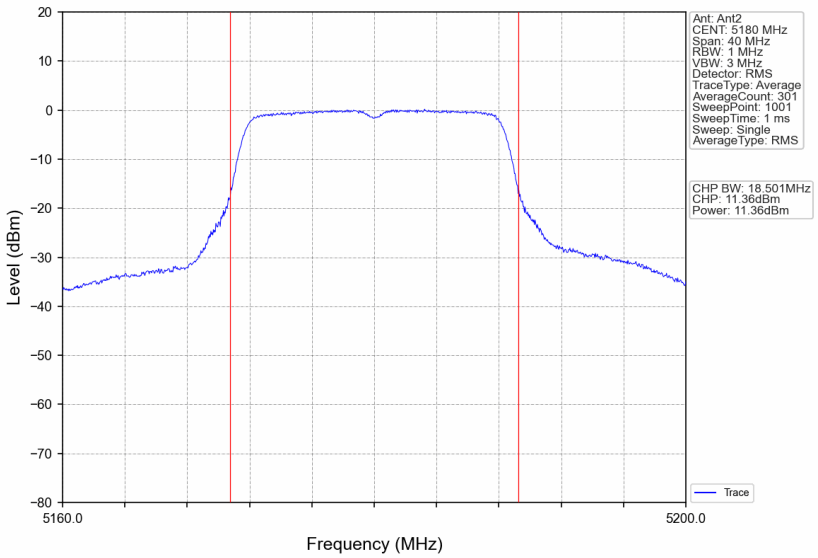
3.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_LCH_5180MHz_Ant2_NTNV



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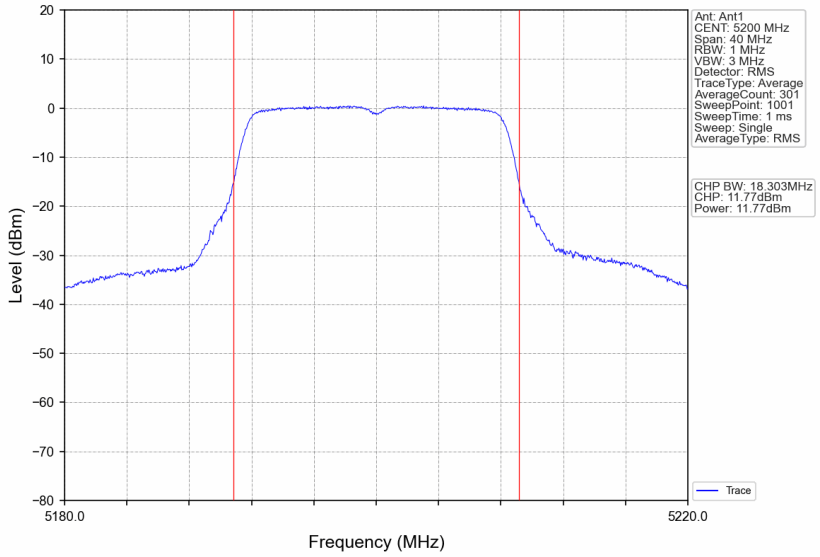
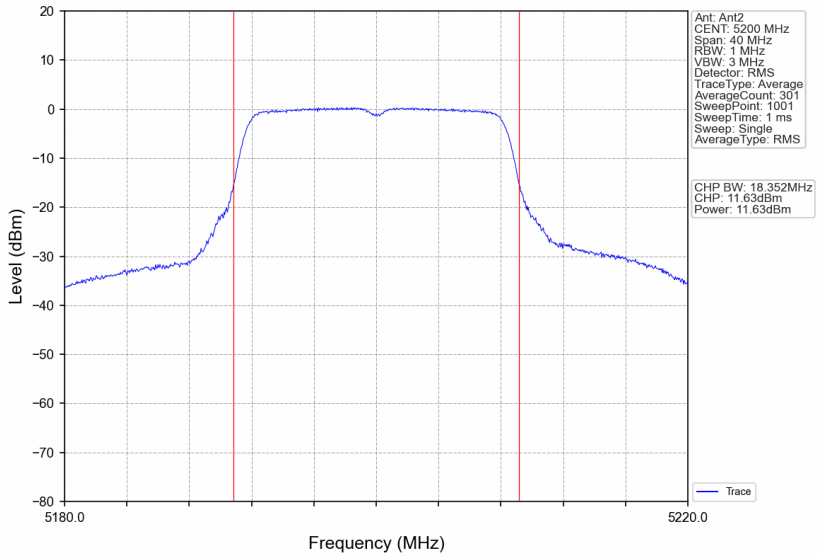
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



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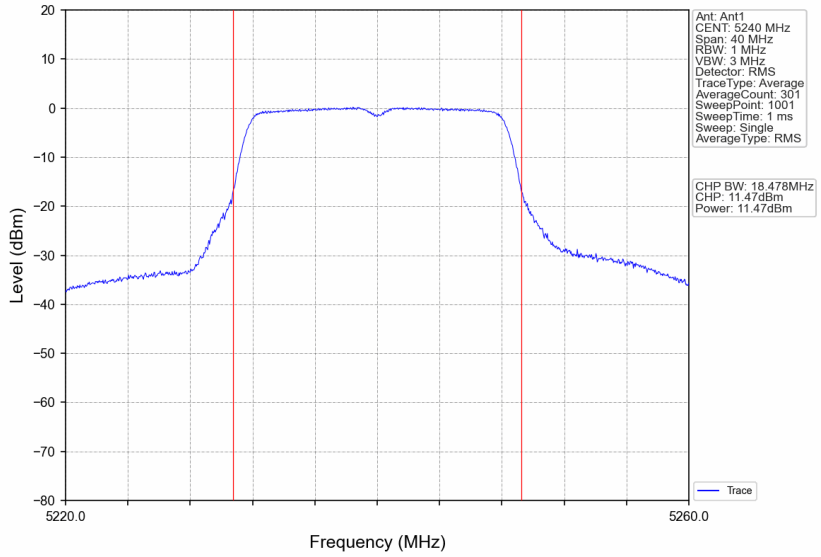
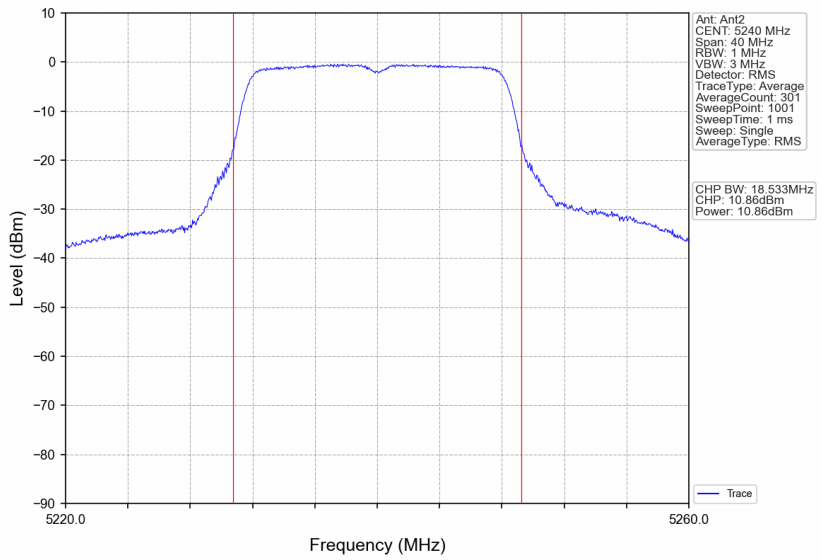
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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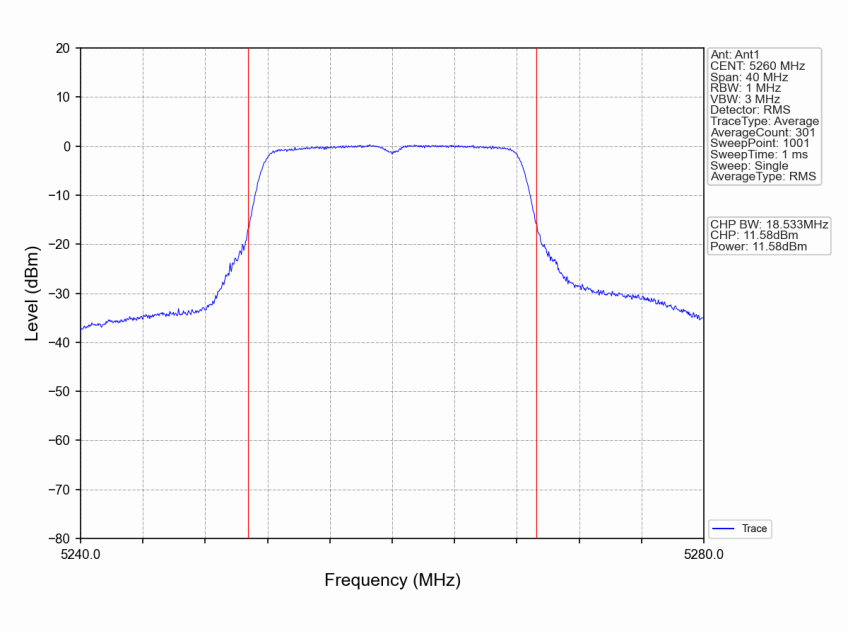
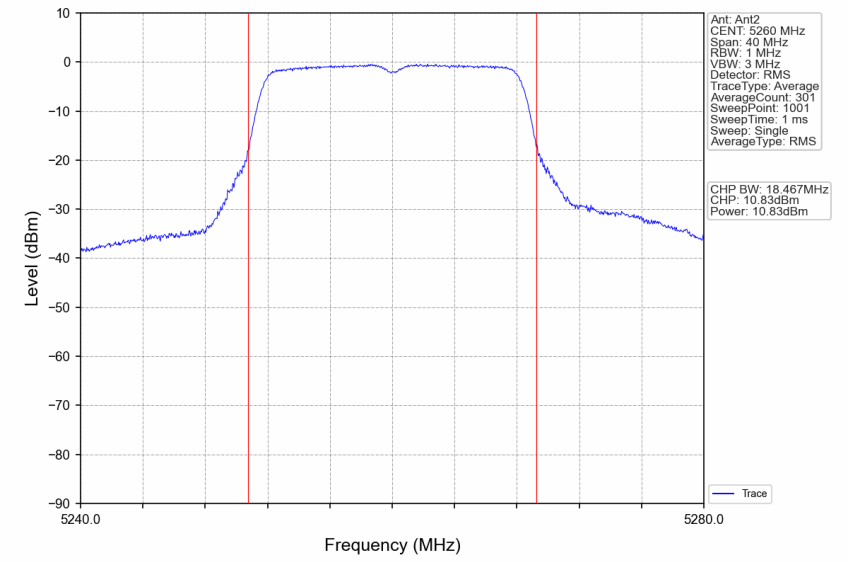
802.11a_LCH_5260MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant2_NTNV



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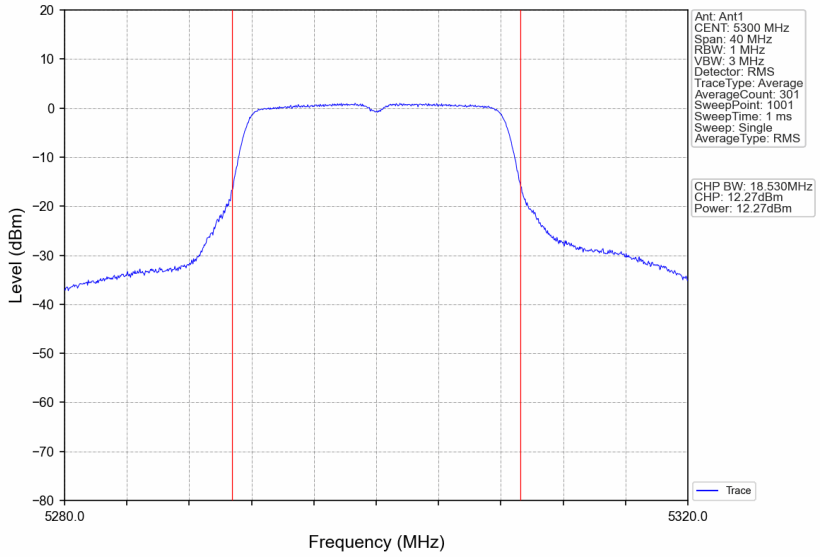
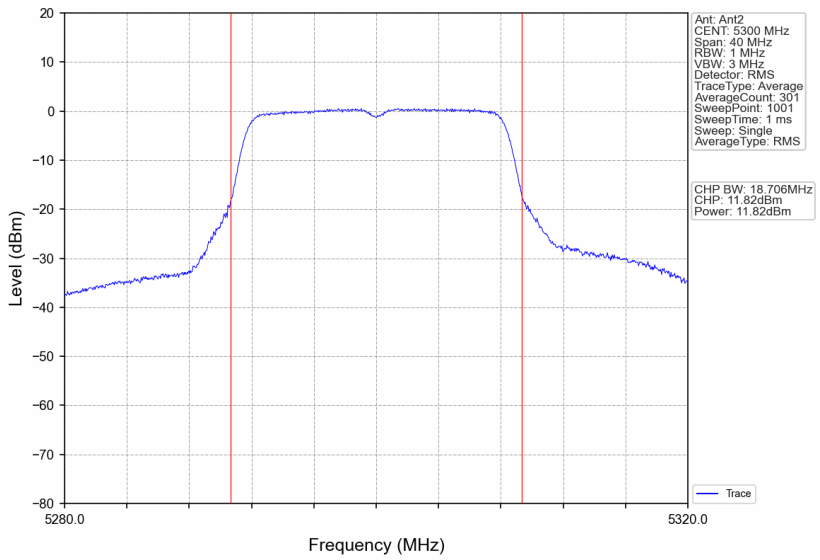
802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_MCH_5300MHz_Ant2_NTNV



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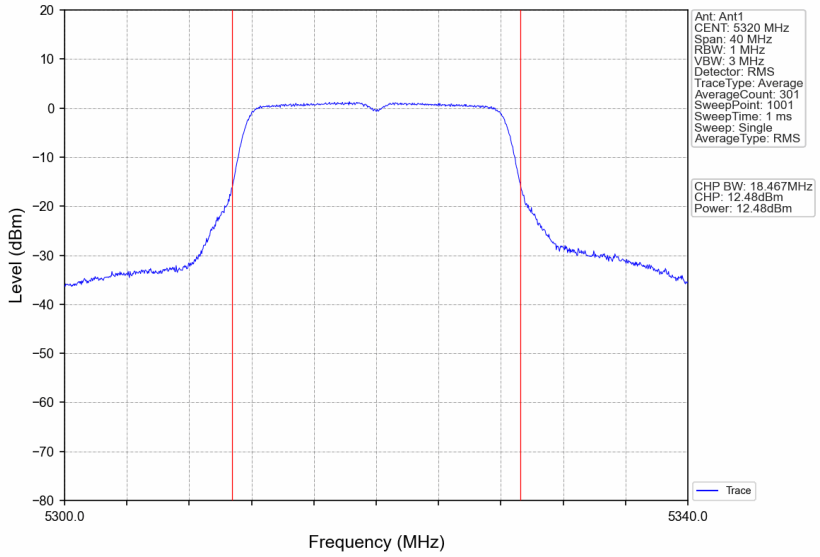
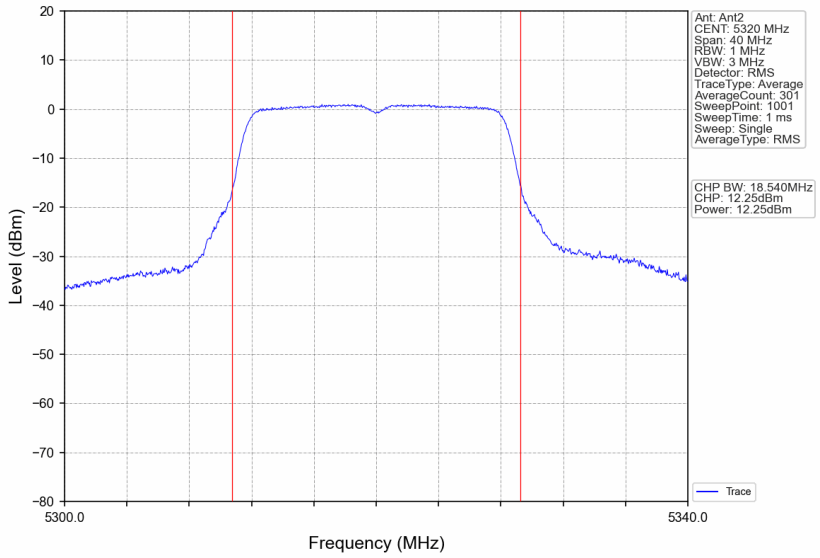
802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant2_NTNV



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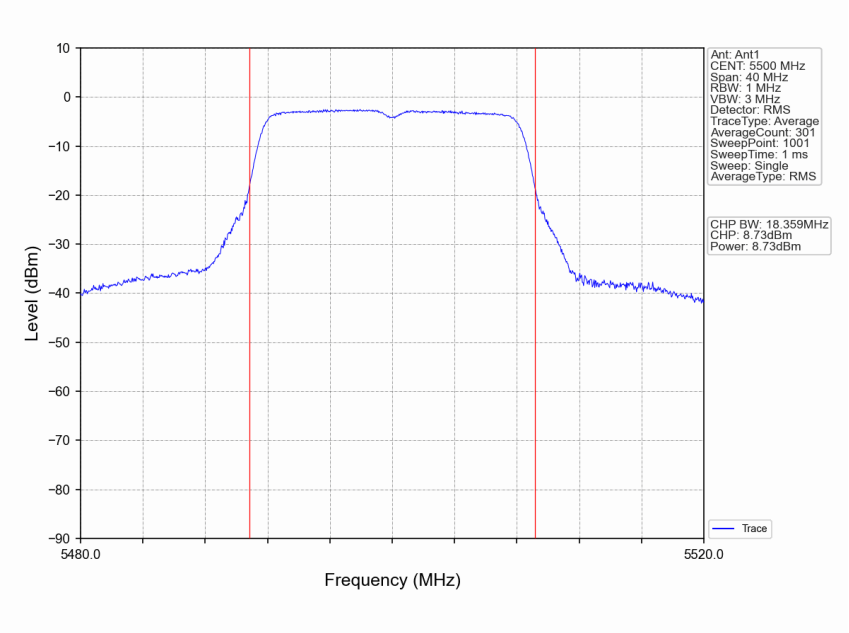
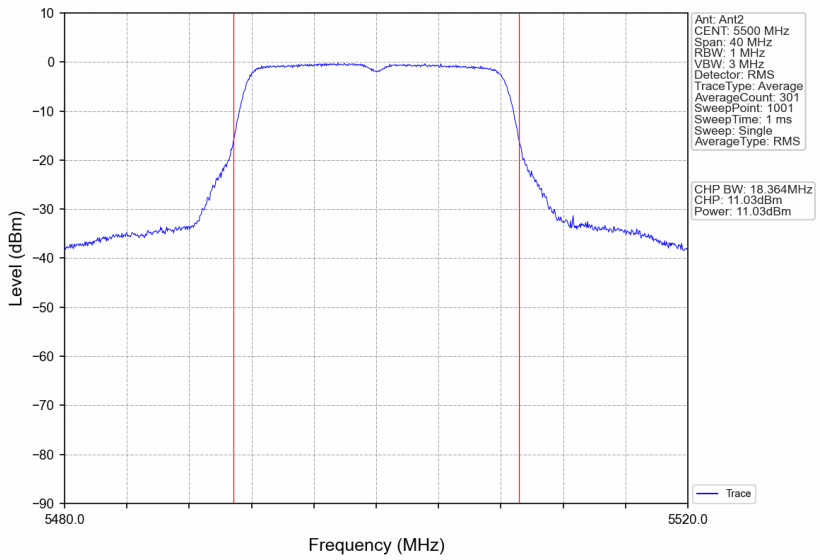
802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant2_NTNV



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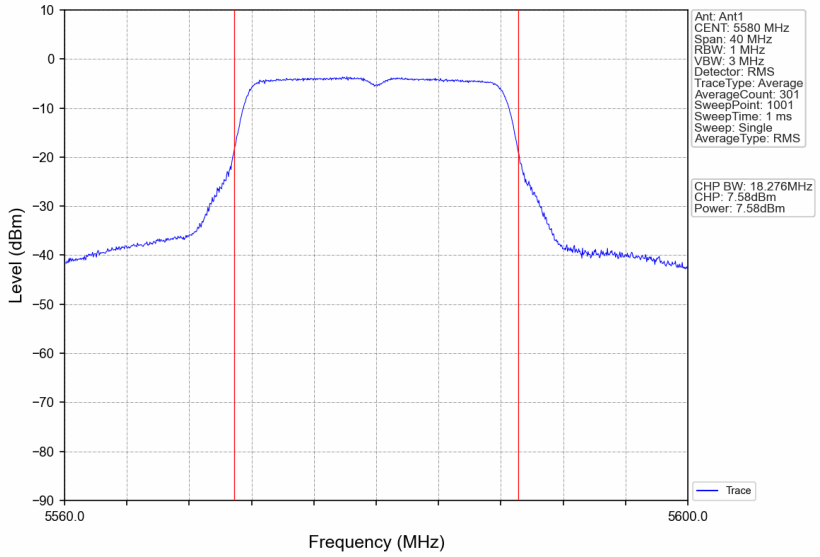
802.11a_MCH_5580MHz_Ant1_NTNV



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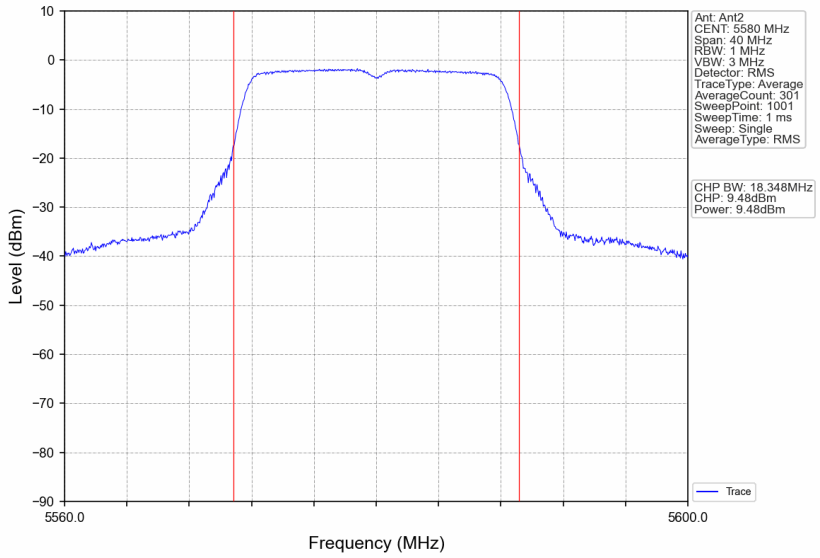

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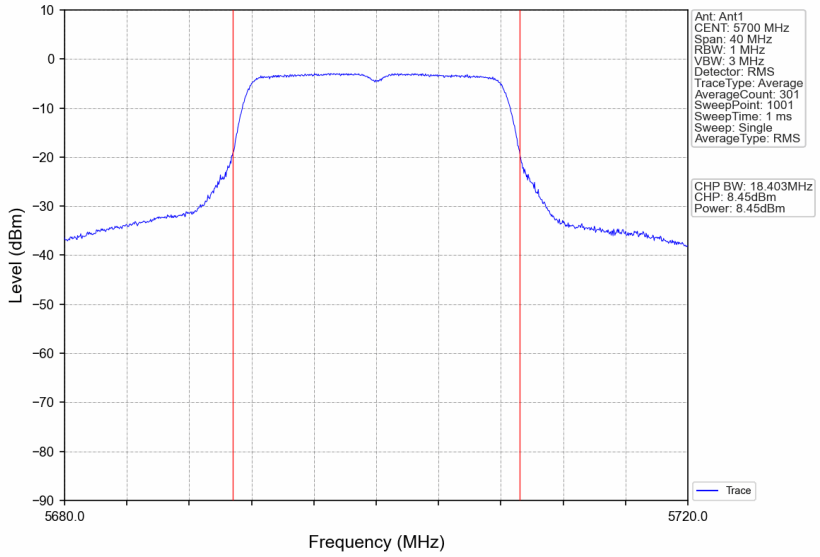
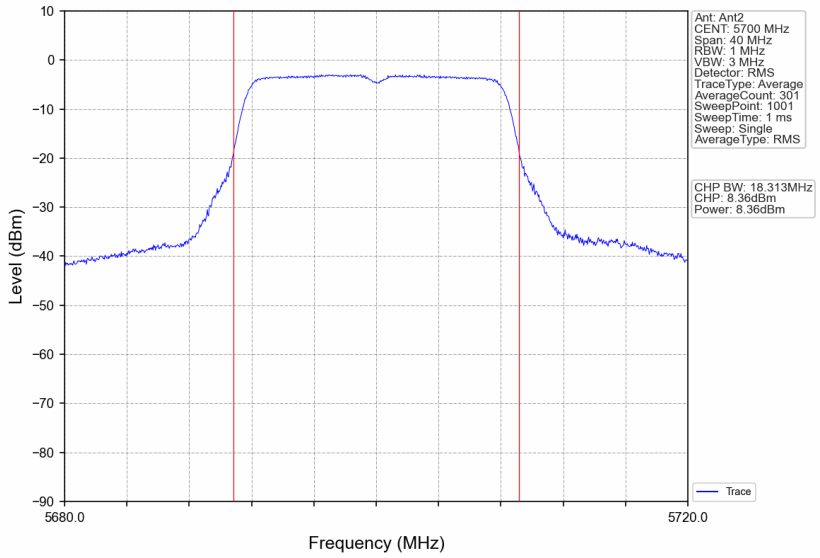
802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_HCH_5700MHz_Ant2_NTNV



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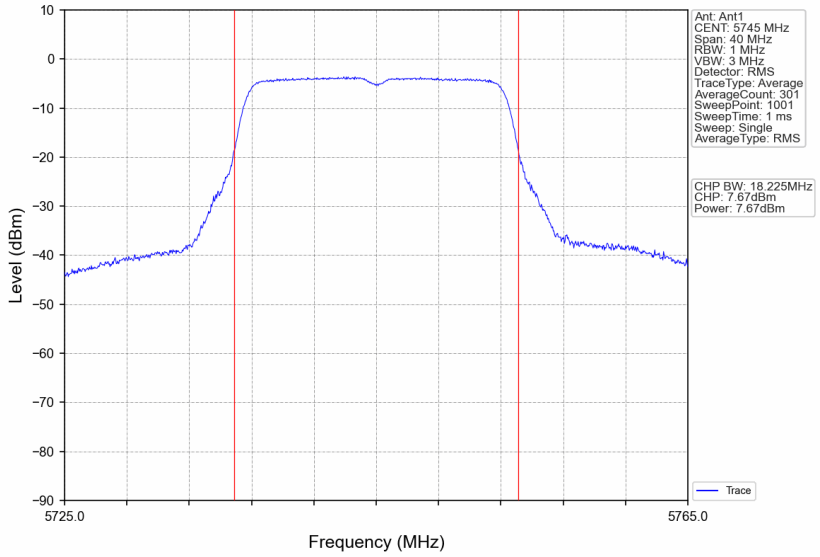
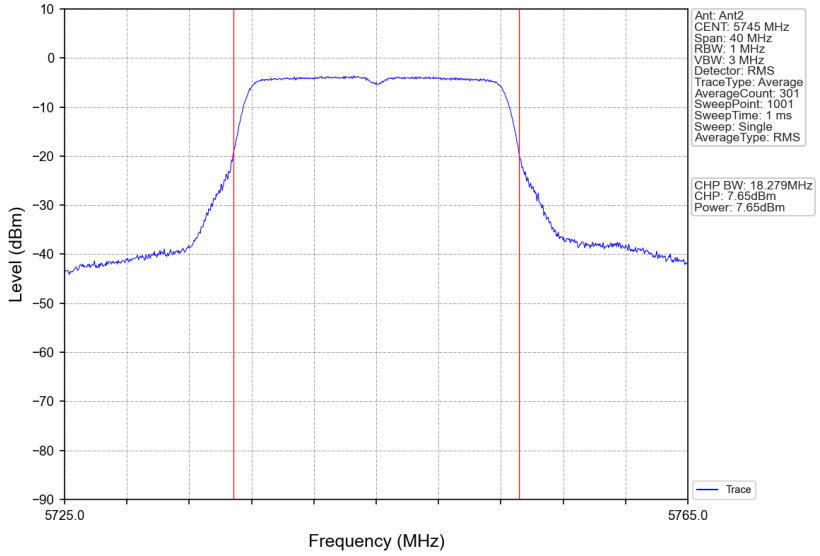
802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant2_NTNV



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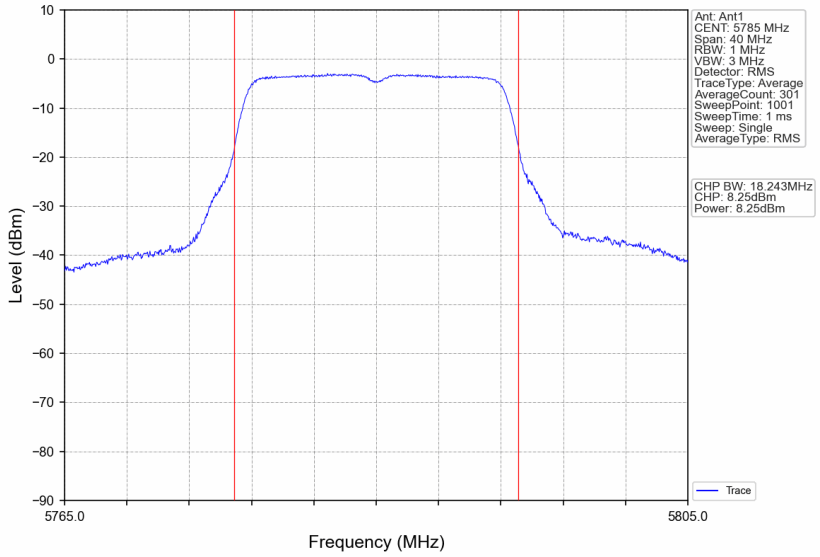
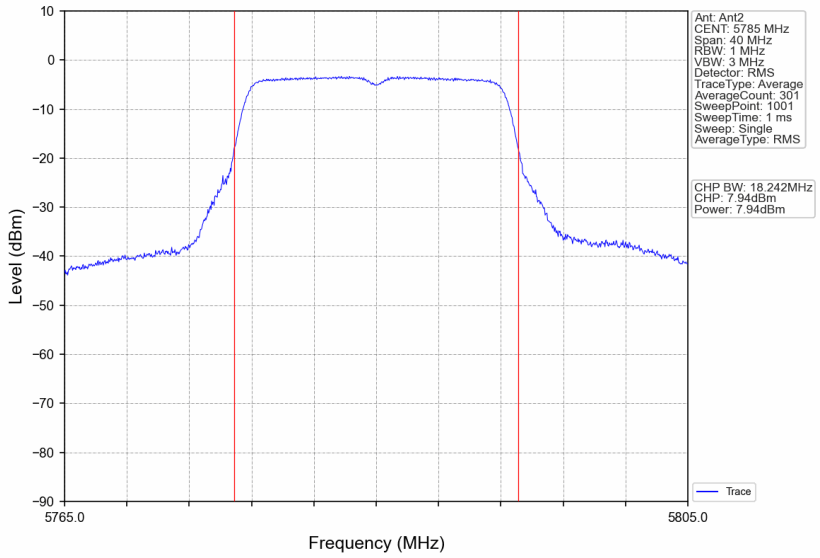
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



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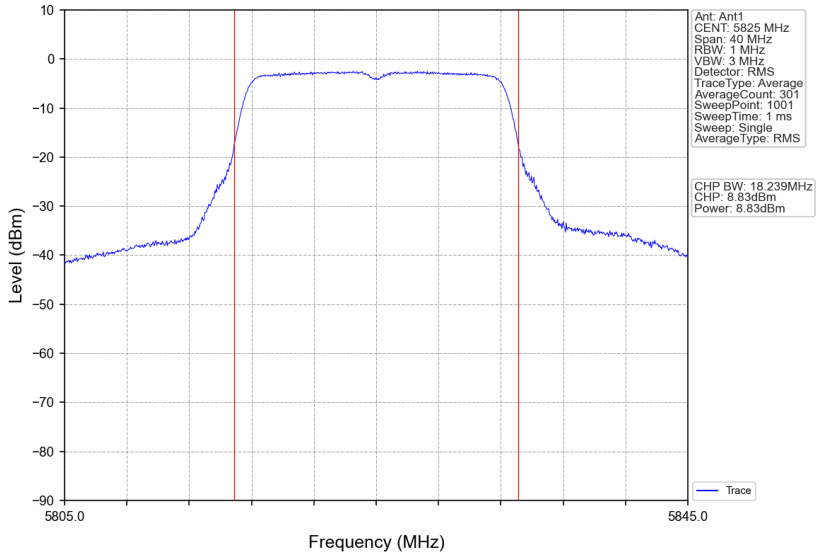
802.11a_HCH_5825MHz_Ant1_NTNV



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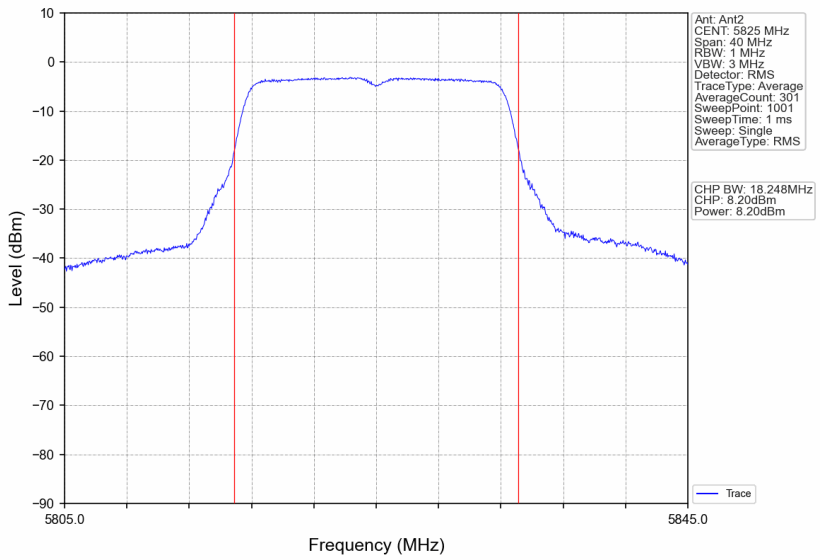

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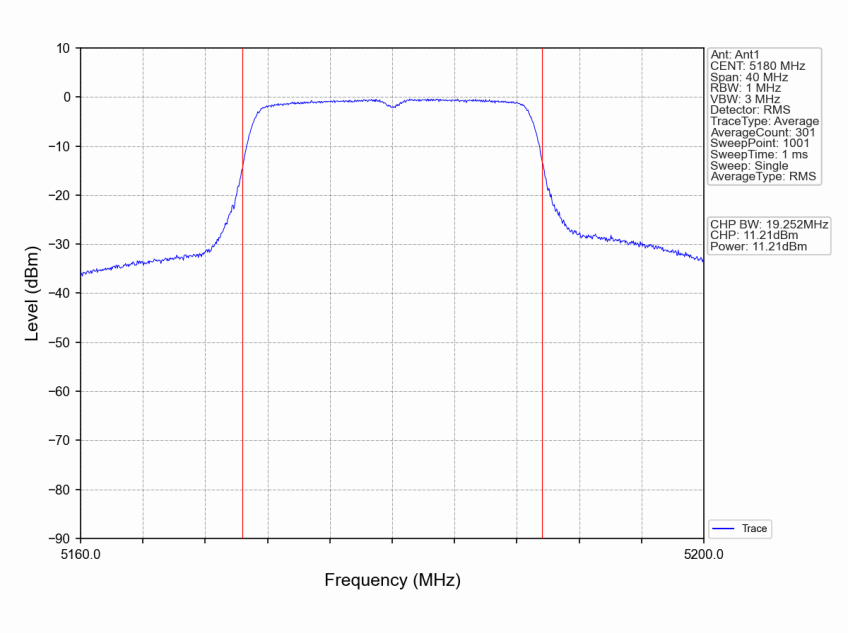
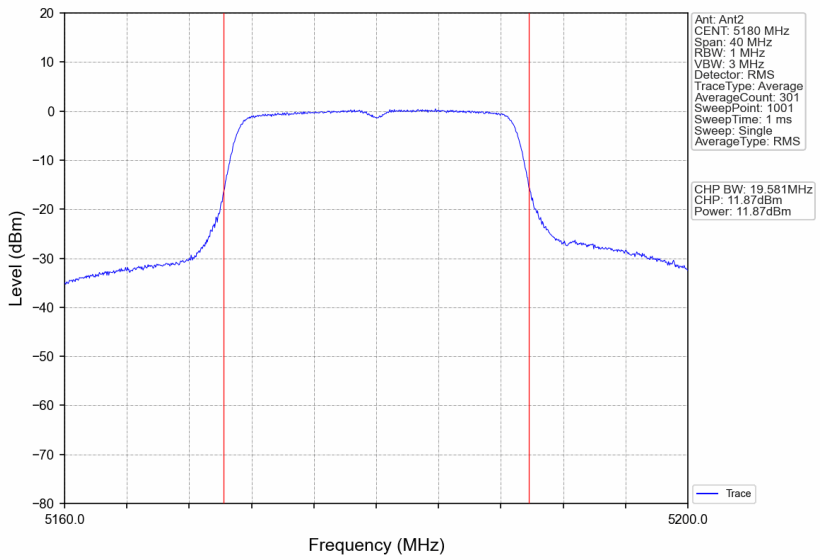
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



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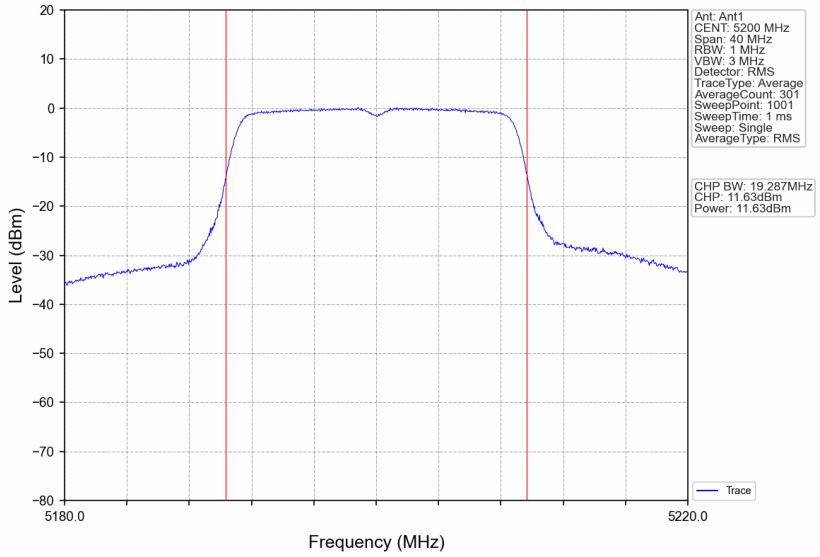
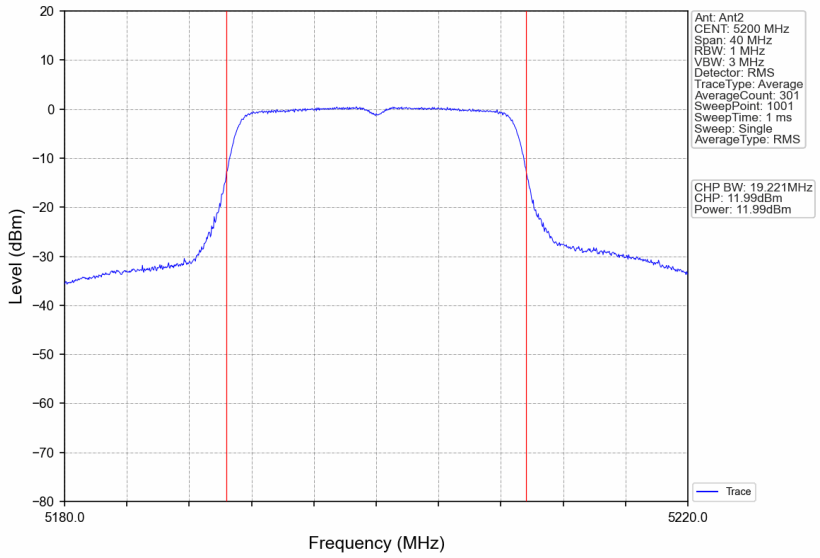
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



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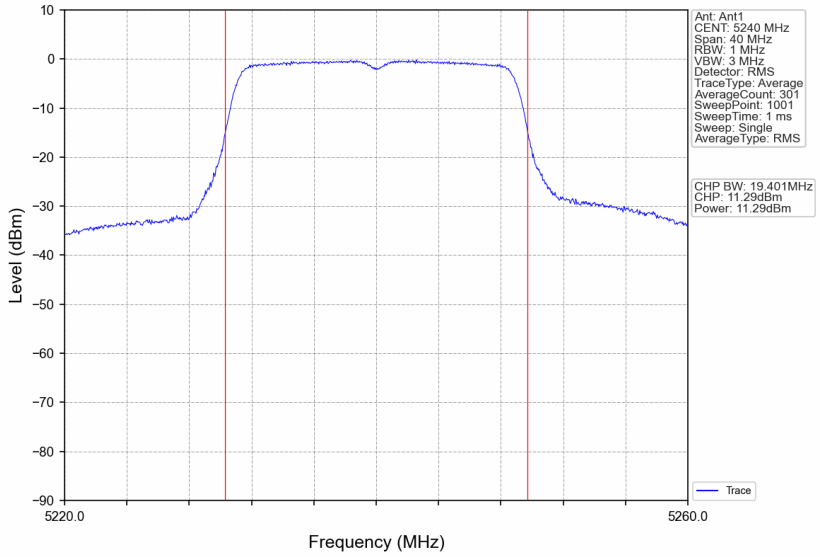
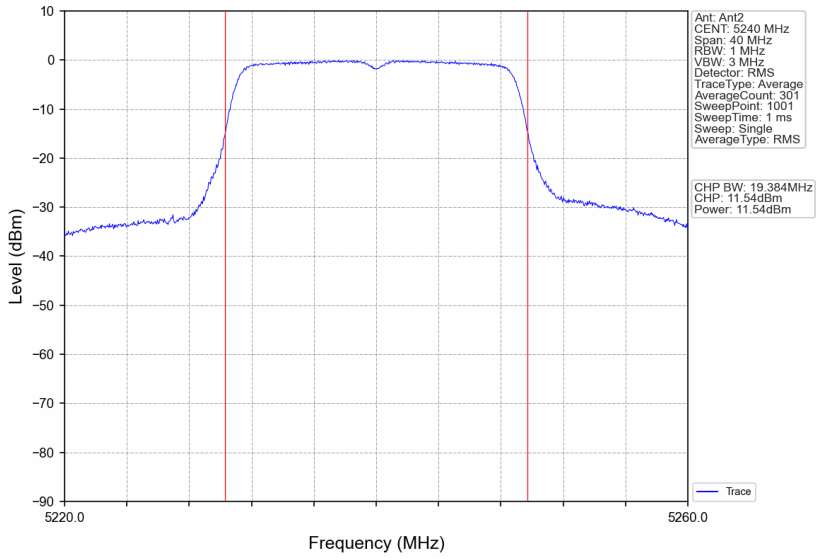
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



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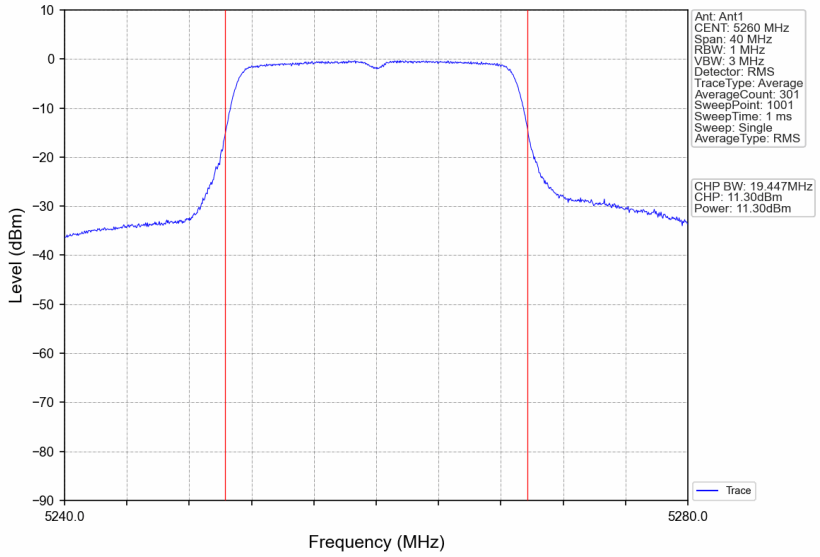
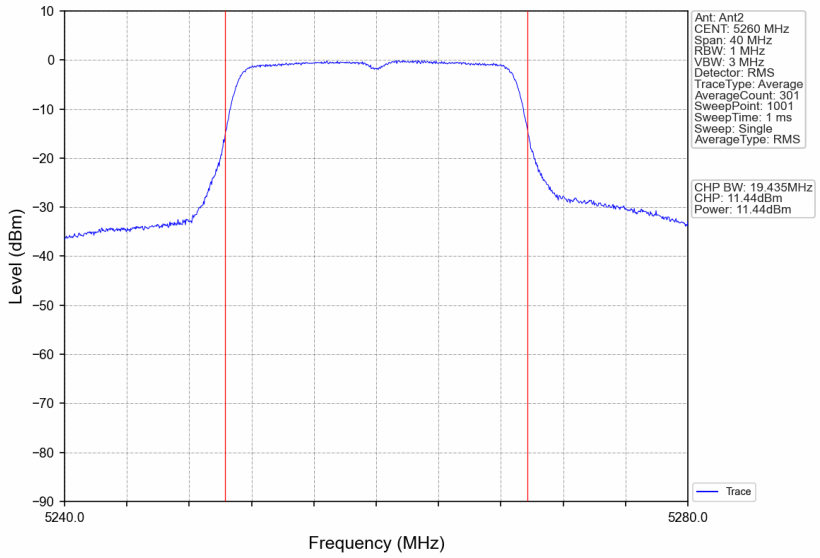
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant2_NTNV



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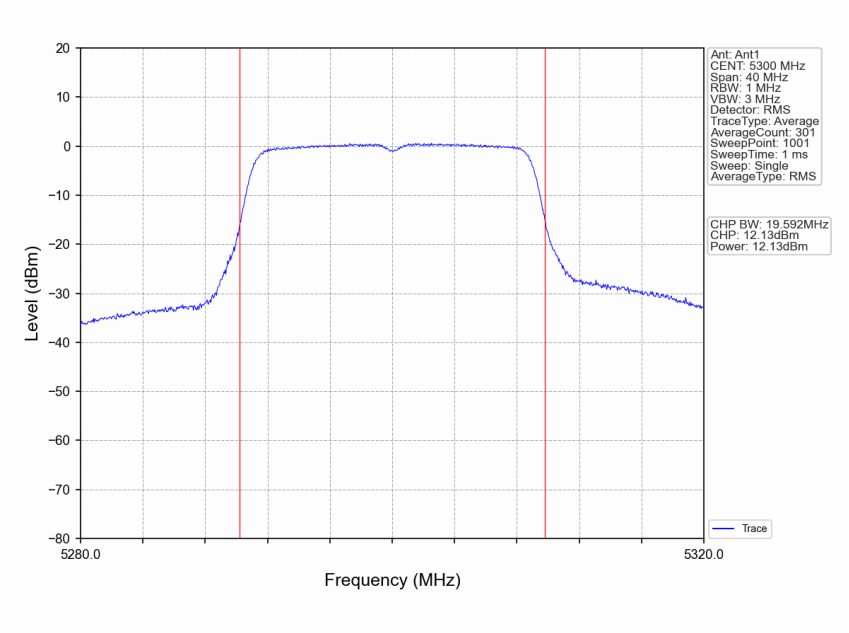
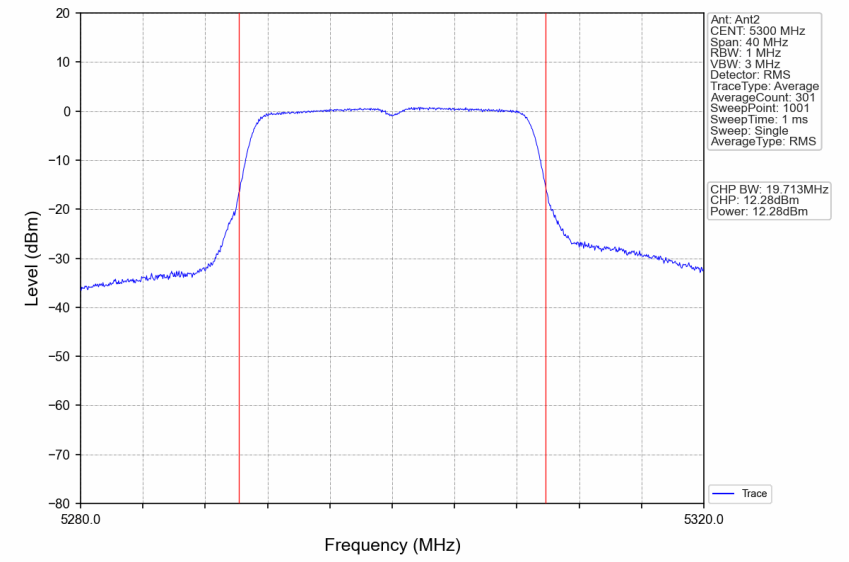
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant2_NTNV



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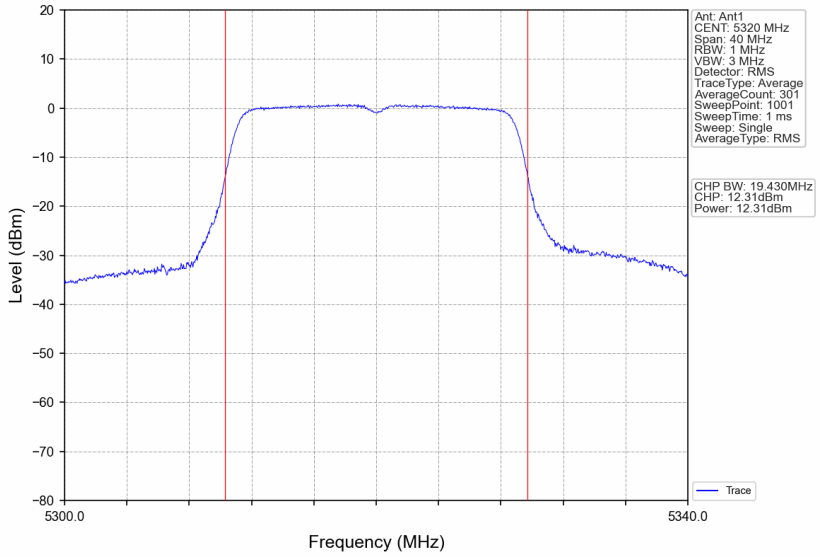
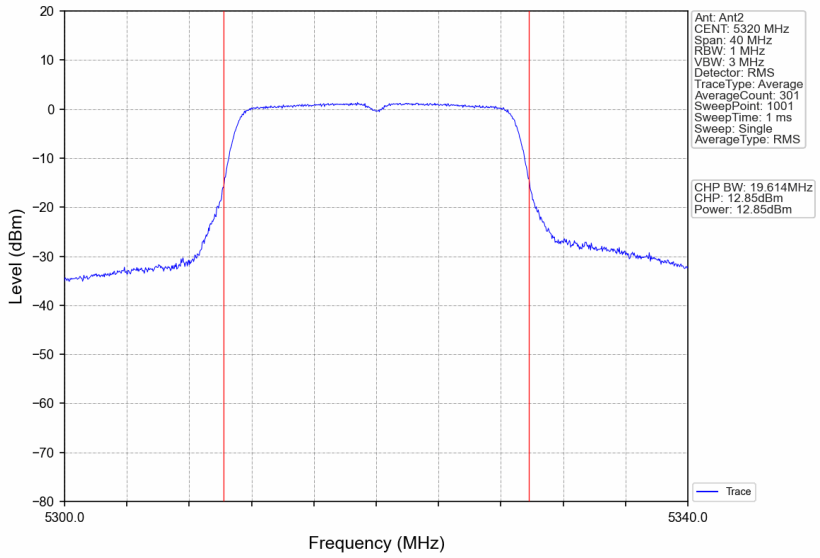
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant2_NTNV



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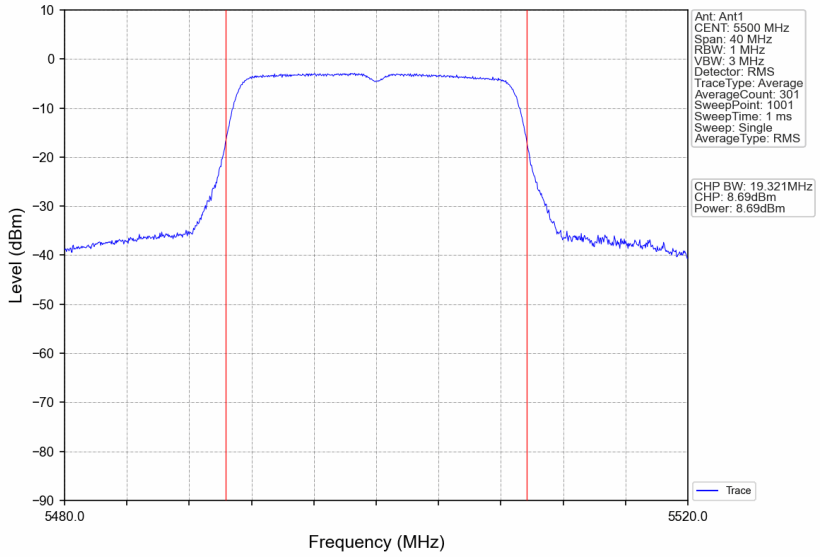
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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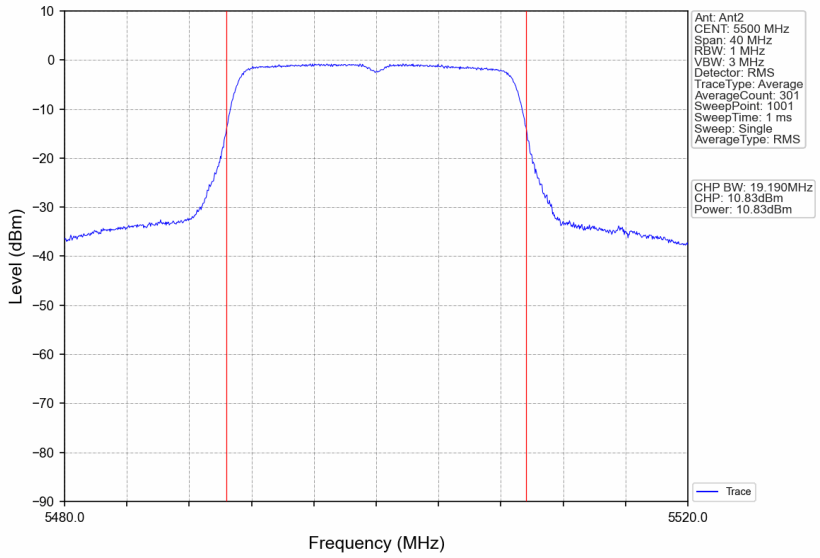

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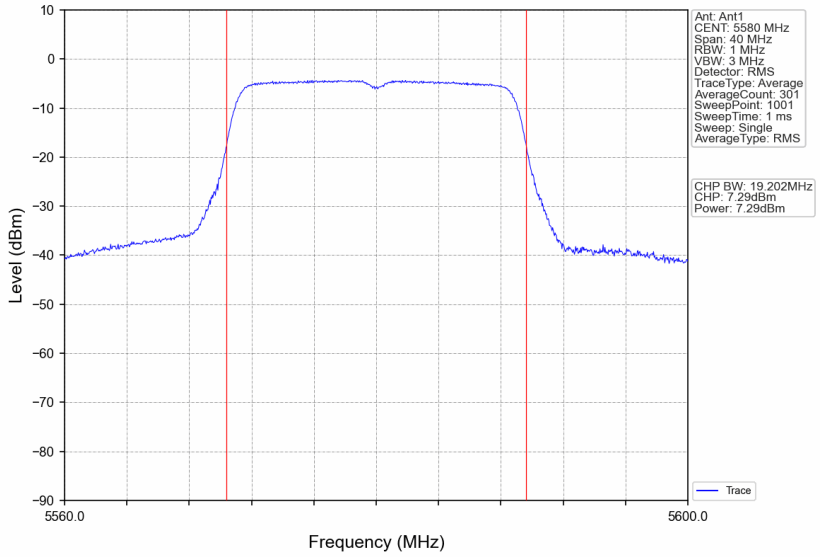
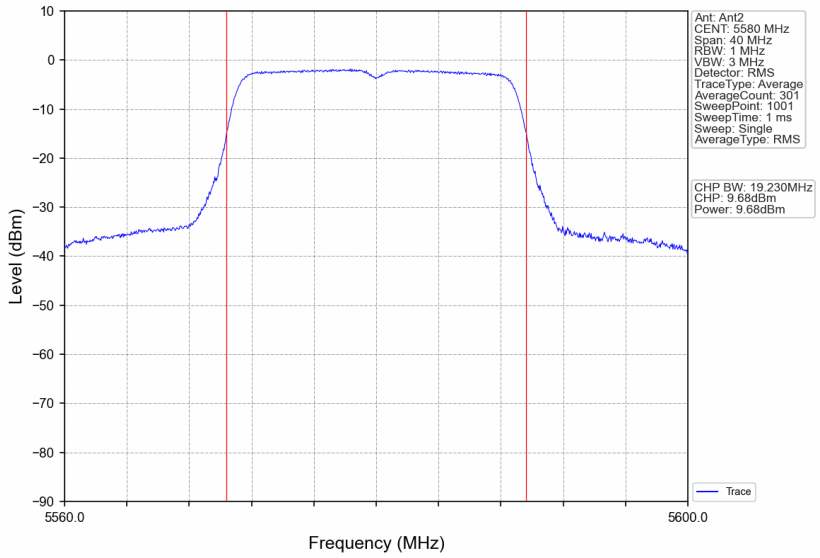
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant2_NTNV



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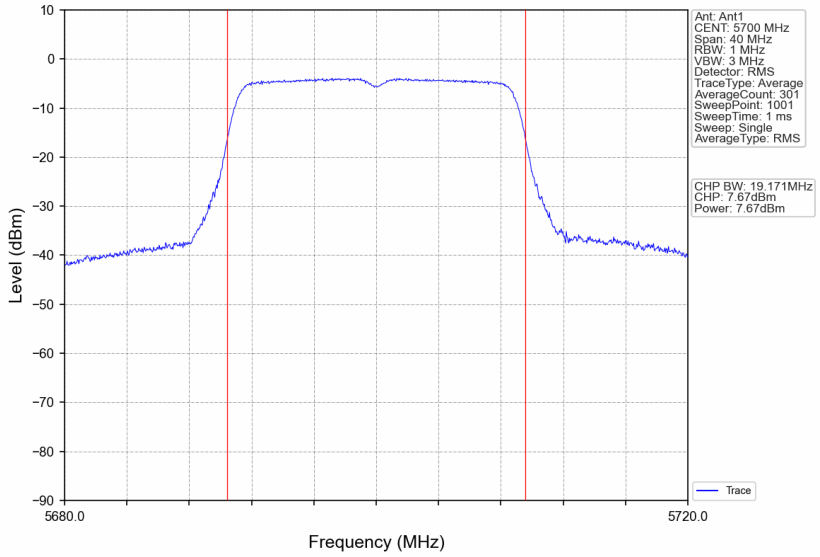
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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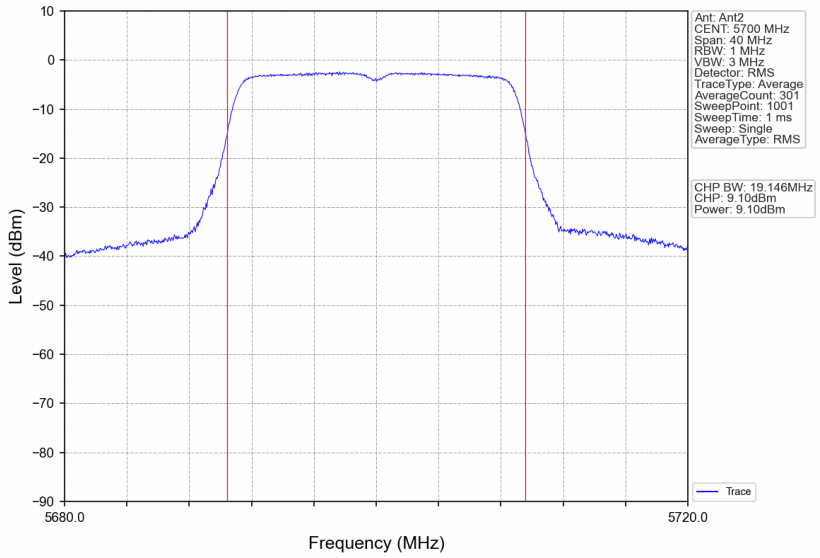

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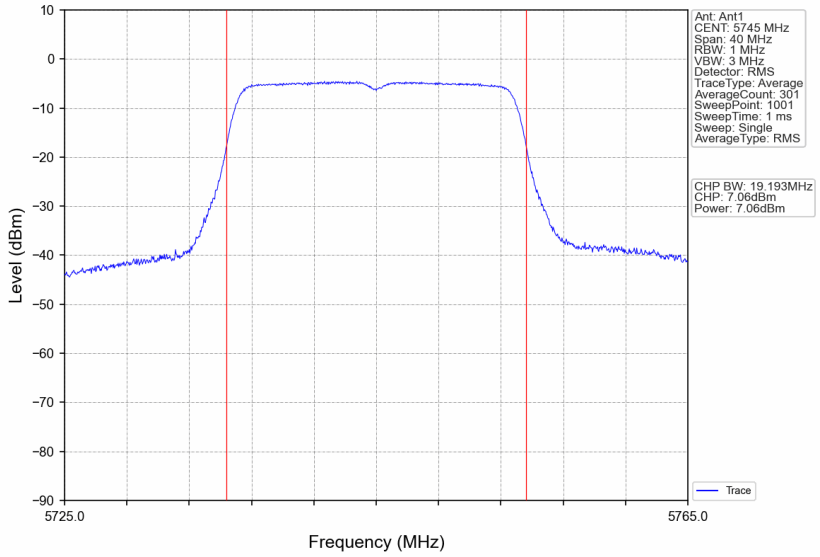
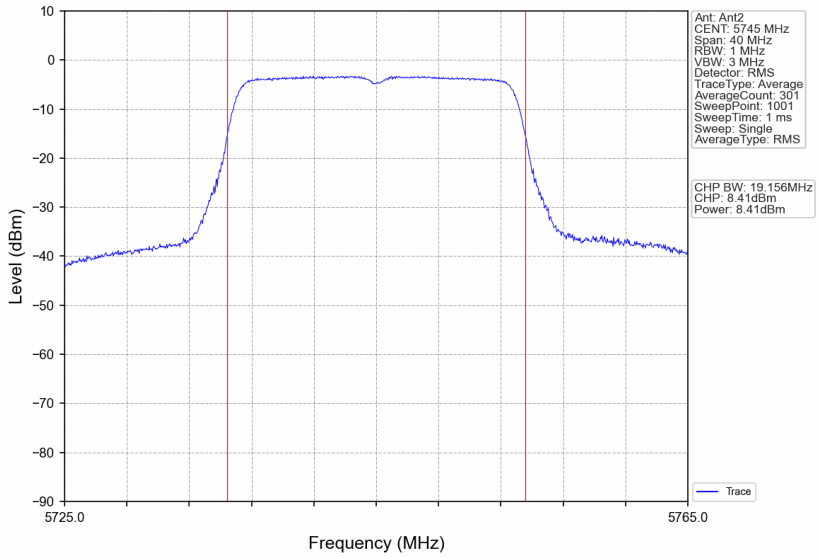
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



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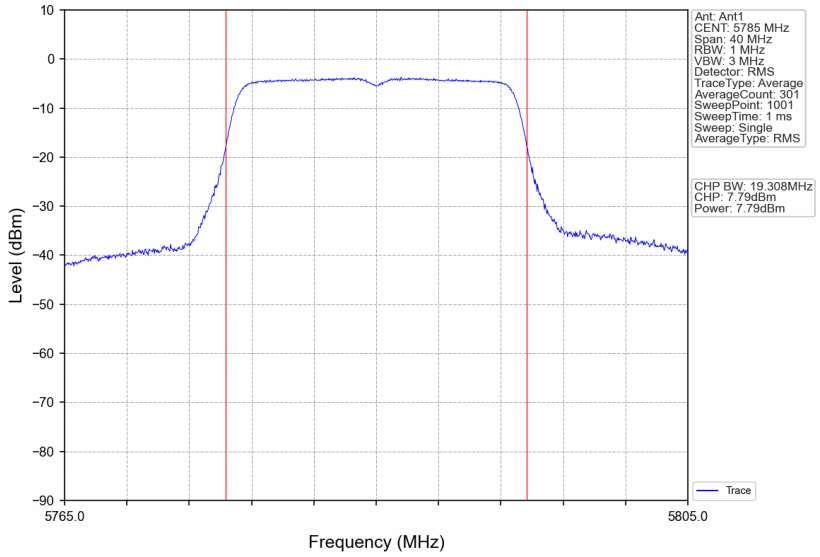
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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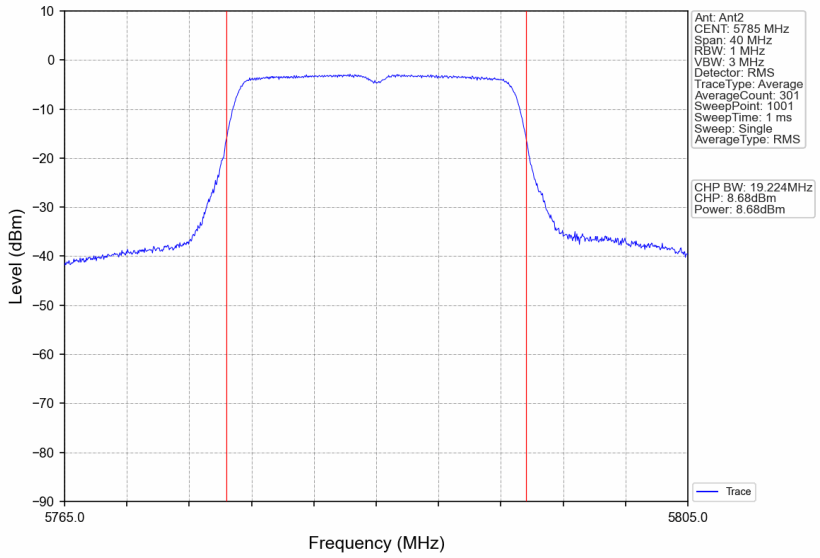

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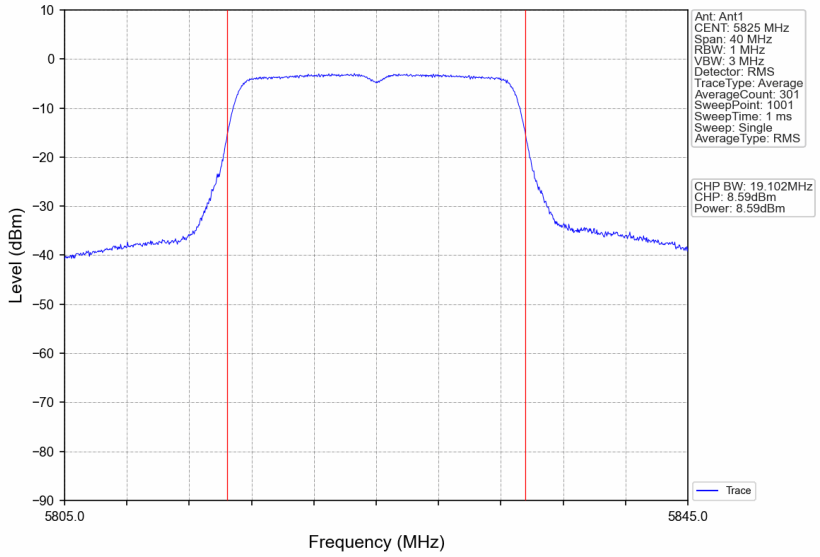
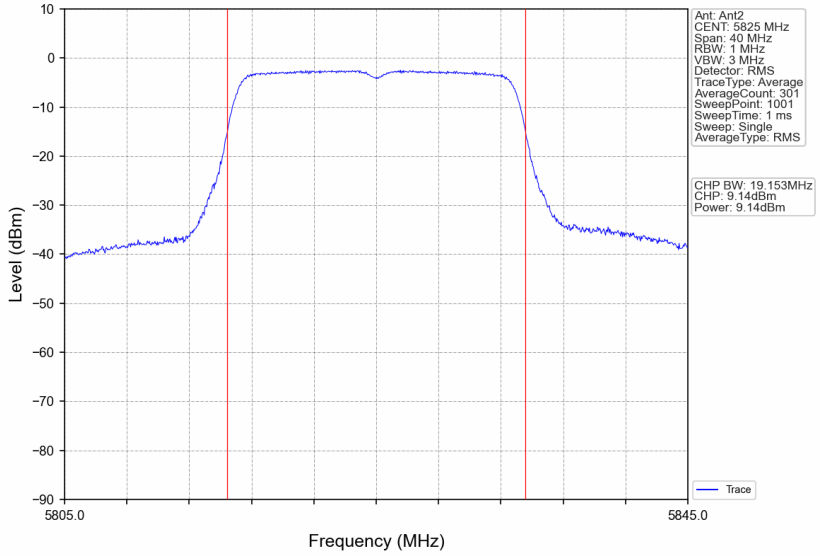
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



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4. Maximum Power Spectral Density

4.1 PSD for FCC

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5180	0.26	0.06	<=11	Pass
		5200	0.62	0.41	<=11	Pass
		5240	0.27	-0.41	<=11	Pass
		5260	0.43	-0.41	<=11	Pass
		5300	0.99	0.54	<=11	Pass
		5320	1.15	0.98	<=11	Pass
		5500	-2.30	-0.20	<=11	Pass
		5580	-3.62	-1.63	<=11	Pass
		5700	-2.74	-2.98	<=11	Pass
802.11n (HT20)	SISO	5180	-0.12	0.43	<=11	Pass
		5200	0.32	0.44	<=11	Pass
		5240	-0.29	0.00	<=11	Pass
		5260	-0.28	-0.19	<=11	Pass
		5300	0.64	0.87	<=11	Pass
		5320	0.88	1.50	<=11	Pass
		5500	-2.91	-0.54	<=11	Pass
		5580	-4.20	-1.85	<=11	Pass
		5700	-3.91	-2.52	<=11	Pass
Note1: Antenna Gain: Ant1: 2.04dBi; Ant2: 2.04dBi;						

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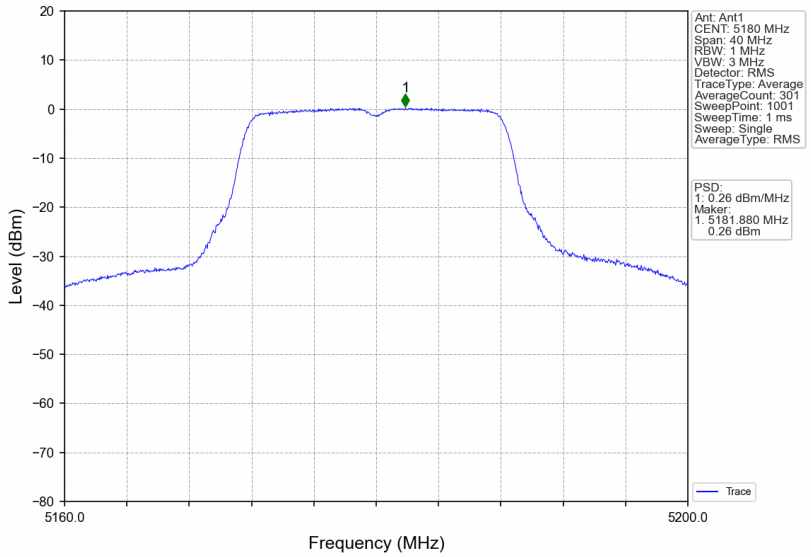
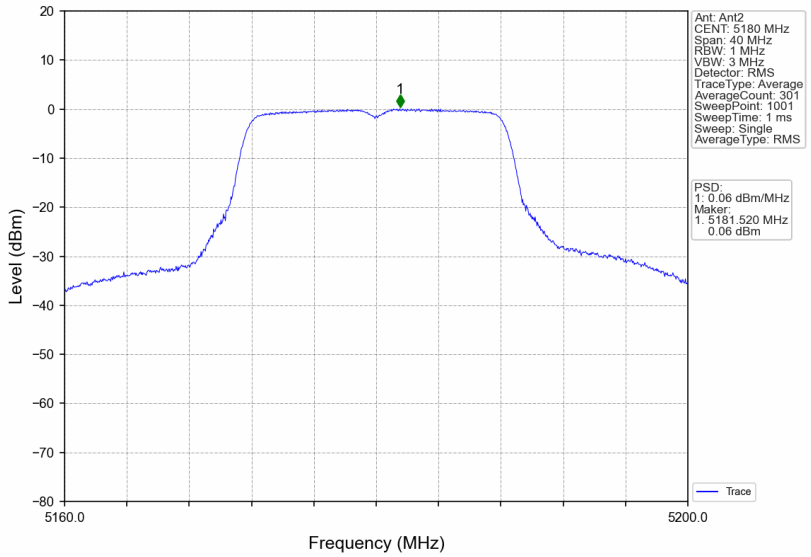
4.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_LCH_5180MHz_Ant2_NTNV



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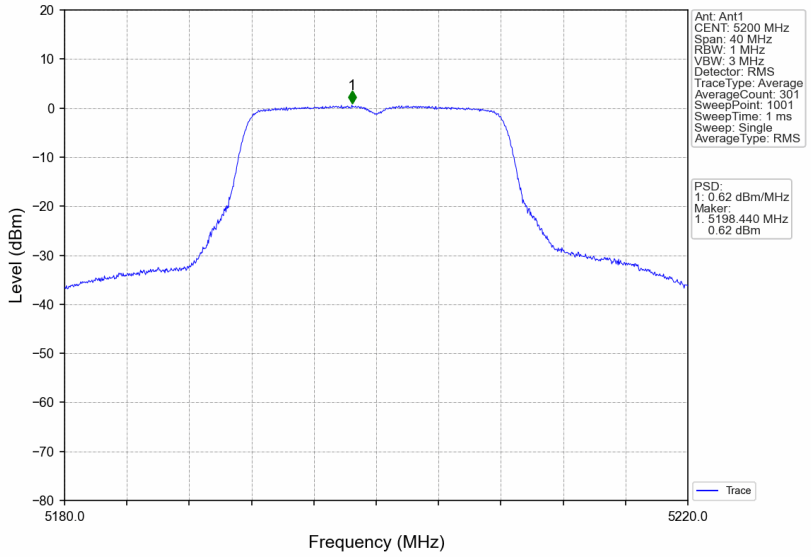
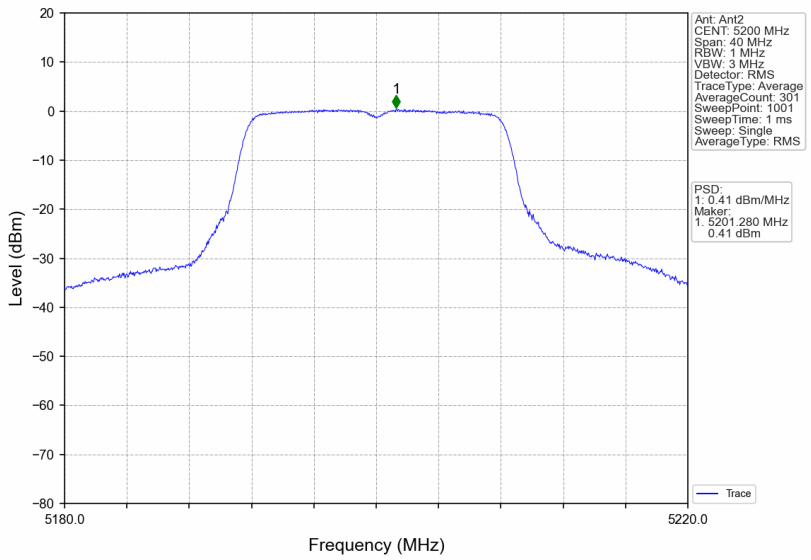
802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



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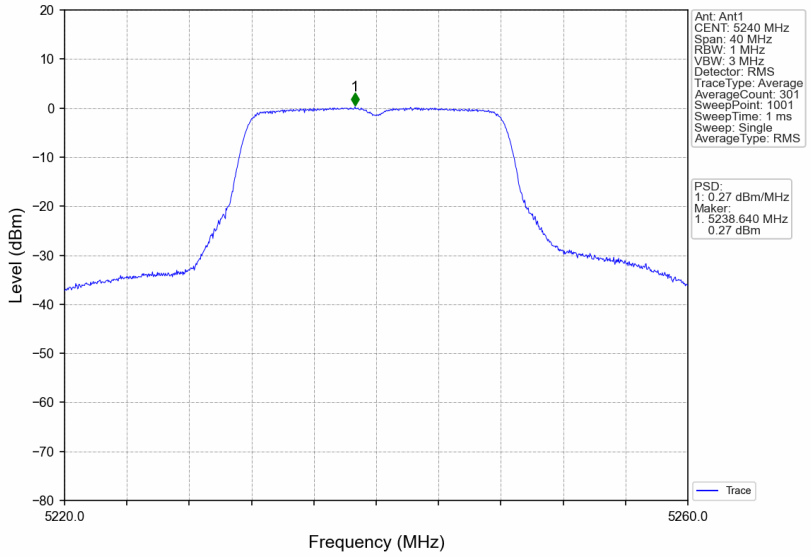
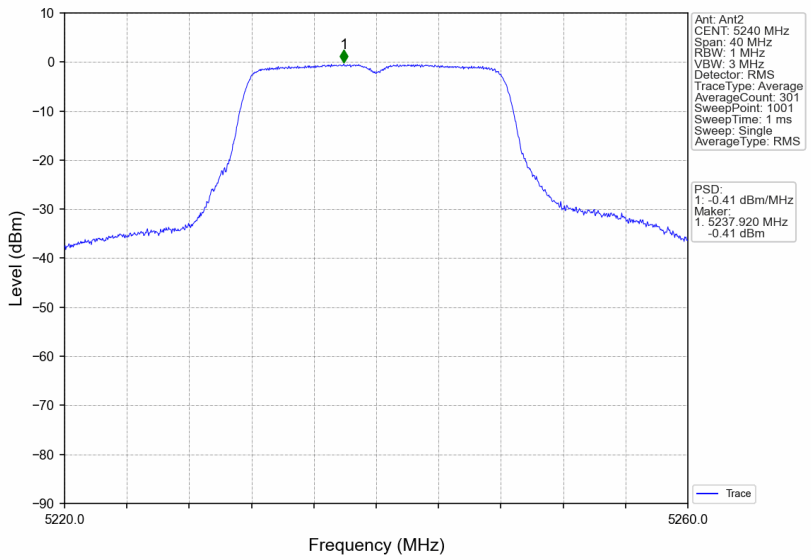
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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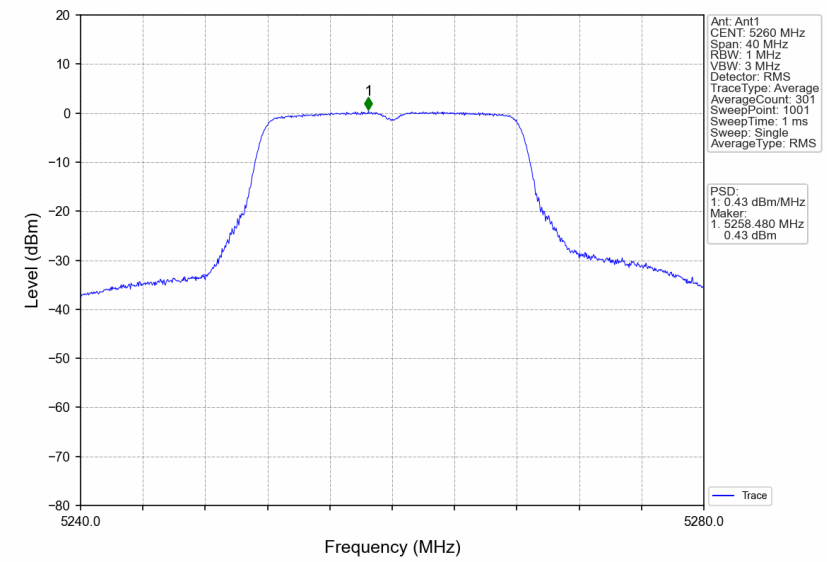
802.11a_LCH_5260MHz_Ant1_NTNV



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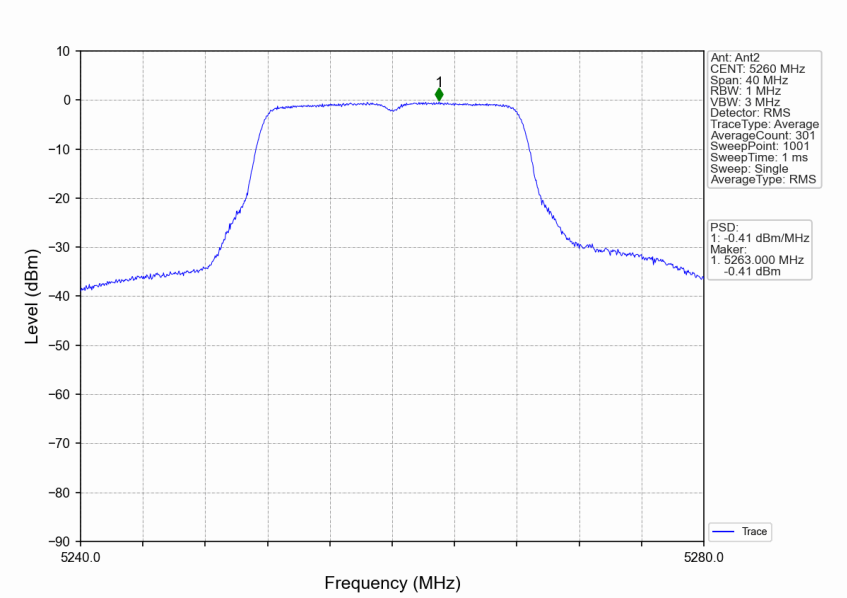

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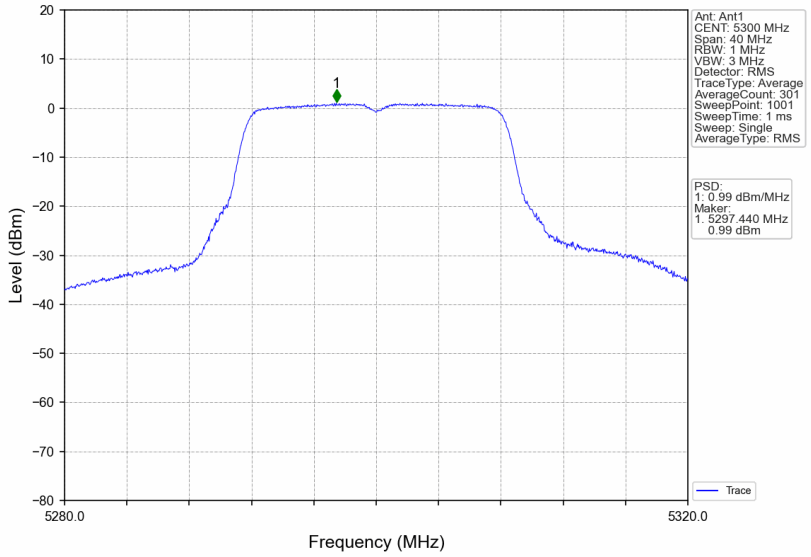
802.11a_MCH_5300MHz_Ant1_NTNV



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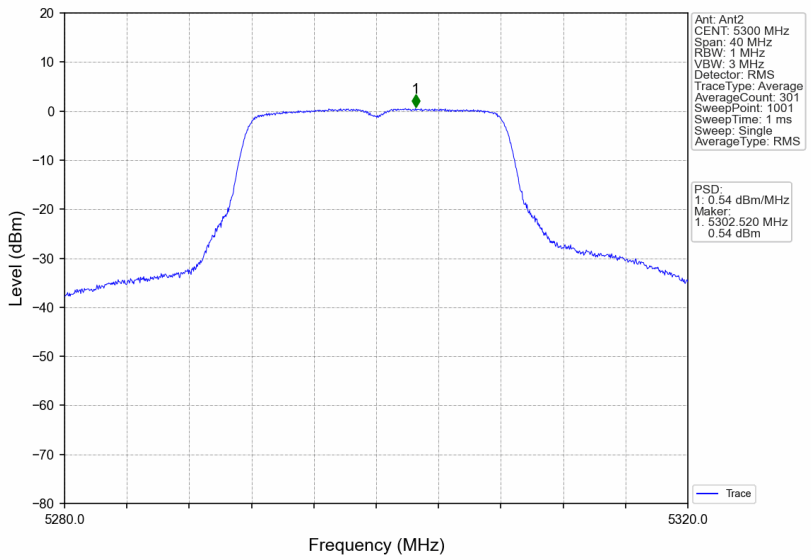

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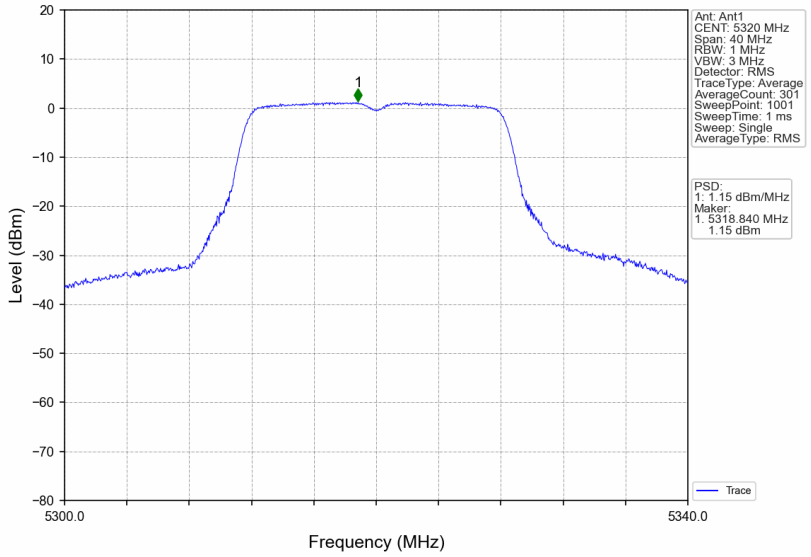
802.11a_HCH_5320MHz_Ant1_NTNV



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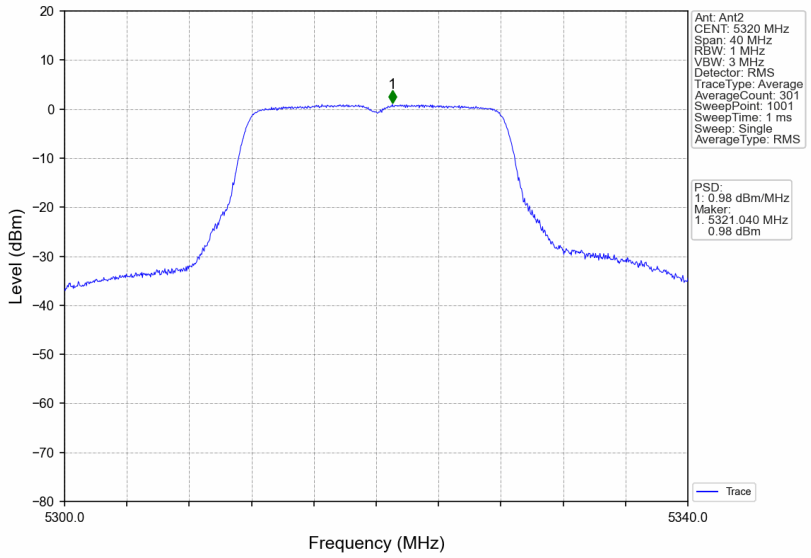

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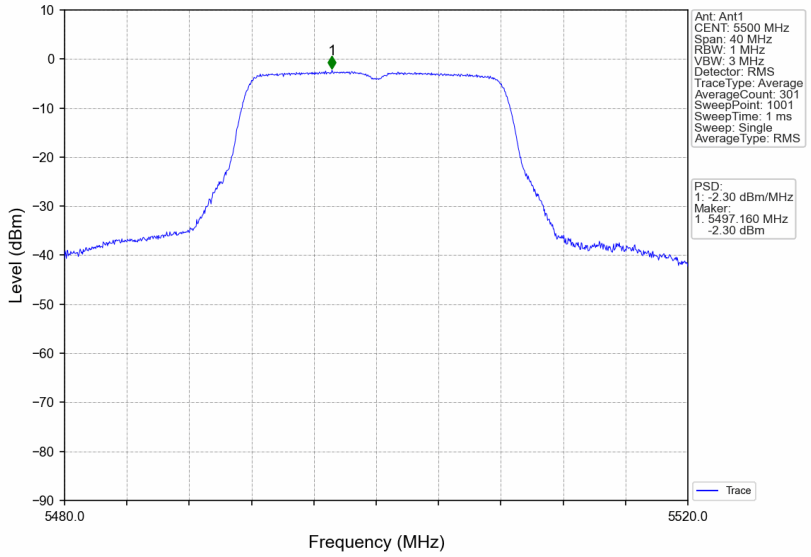
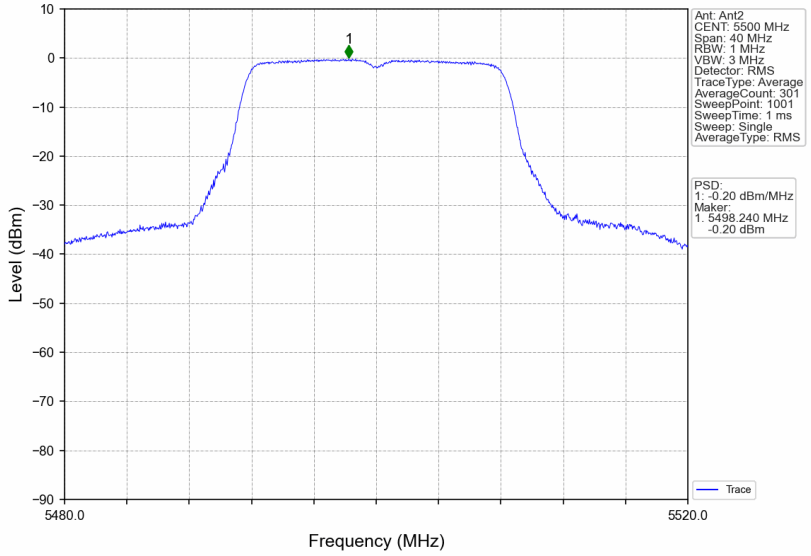
802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant2_NTNV



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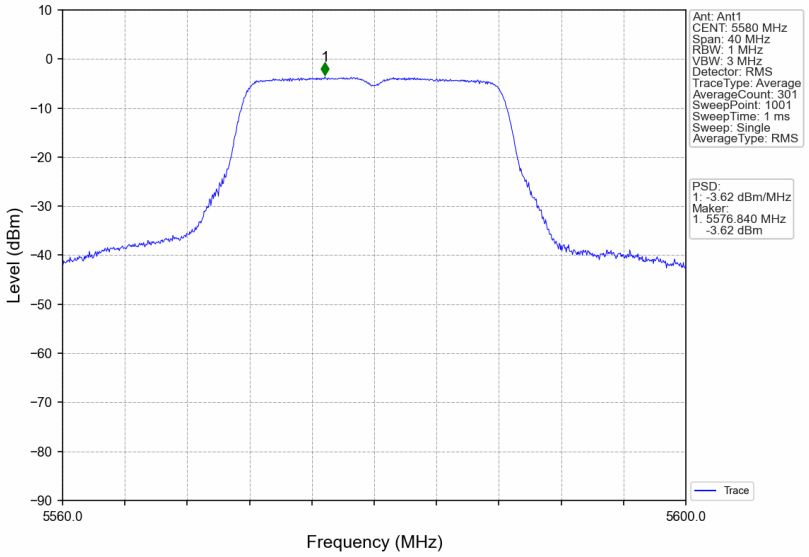
802.11a_MCH_5580MHz_Ant1_NTNV



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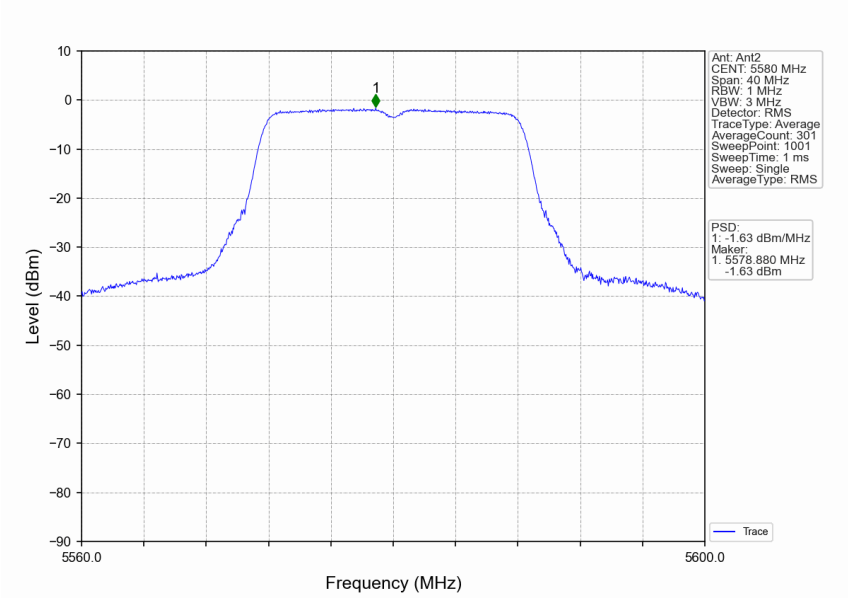

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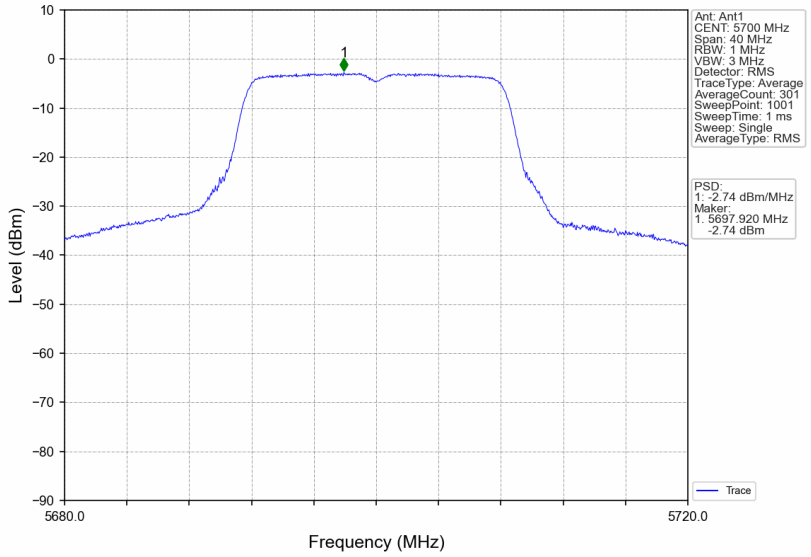
802.11a_HCH_5700MHz_Ant1_NTNV



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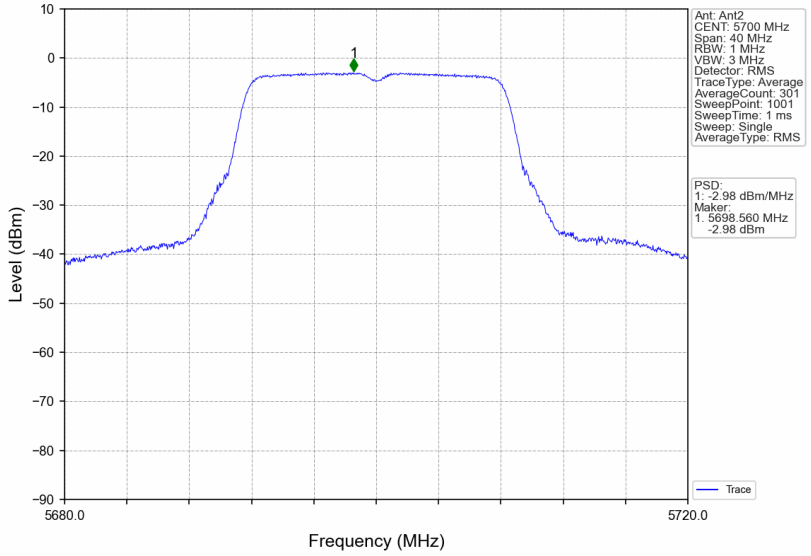

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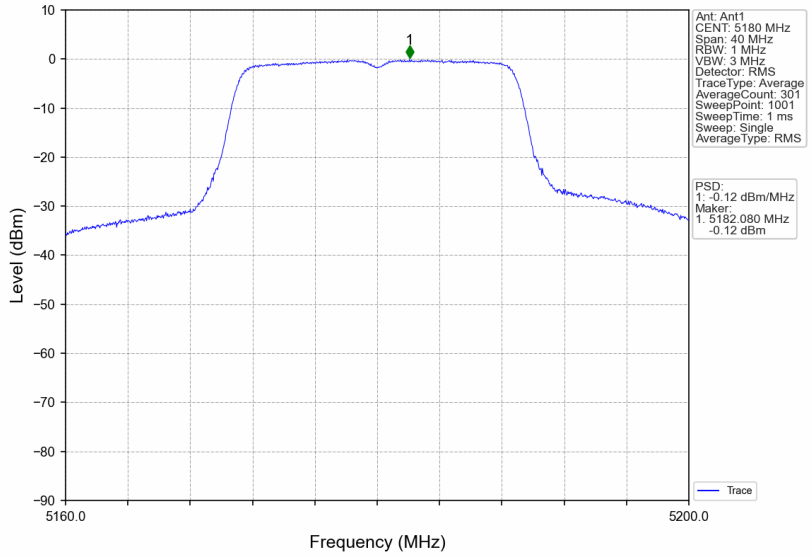
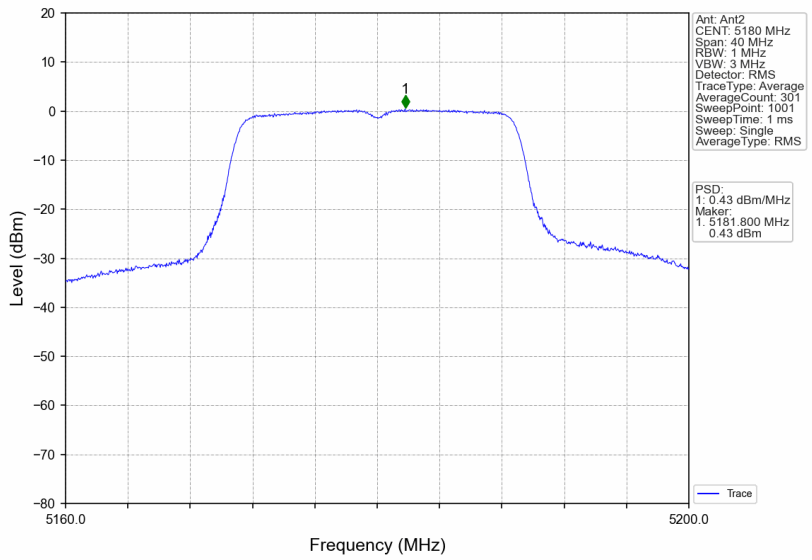
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



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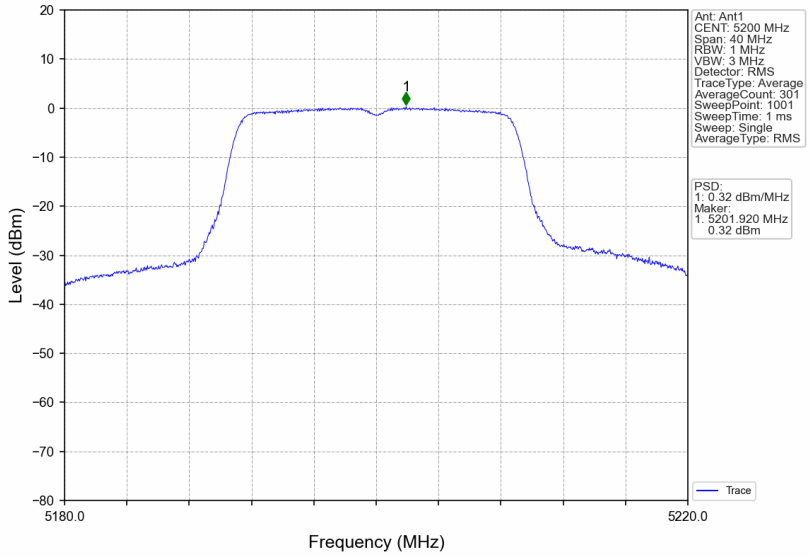
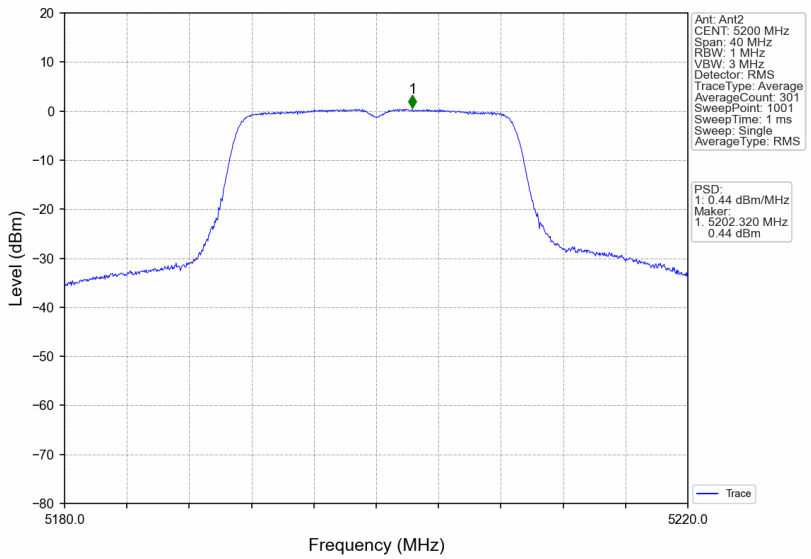
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



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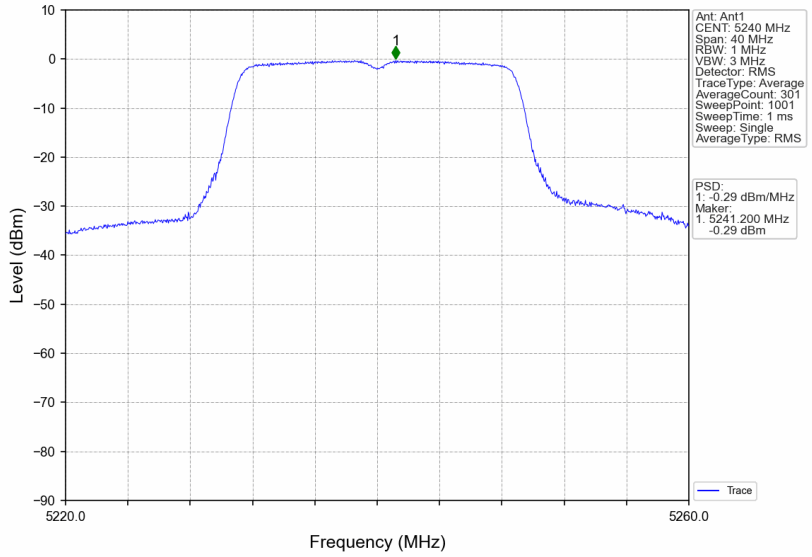
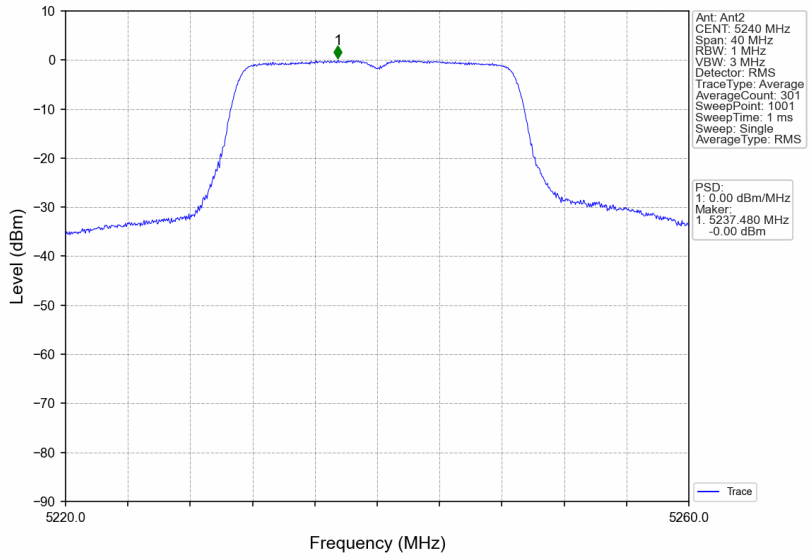
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



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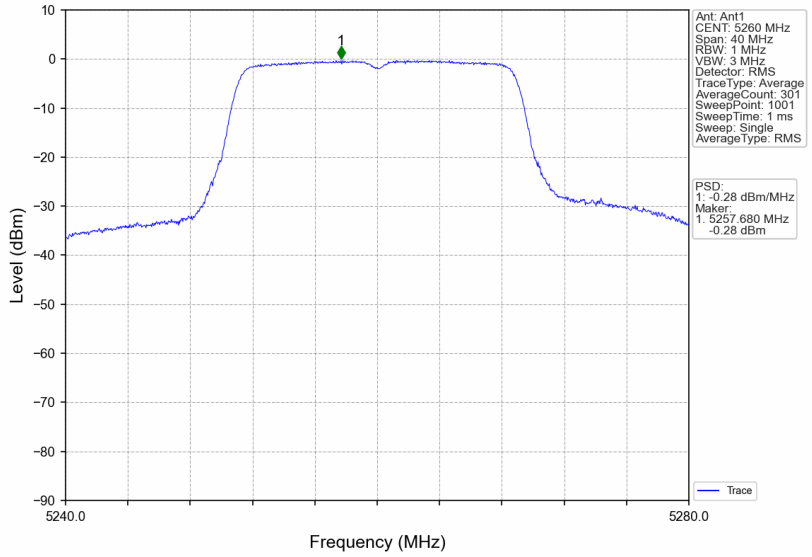
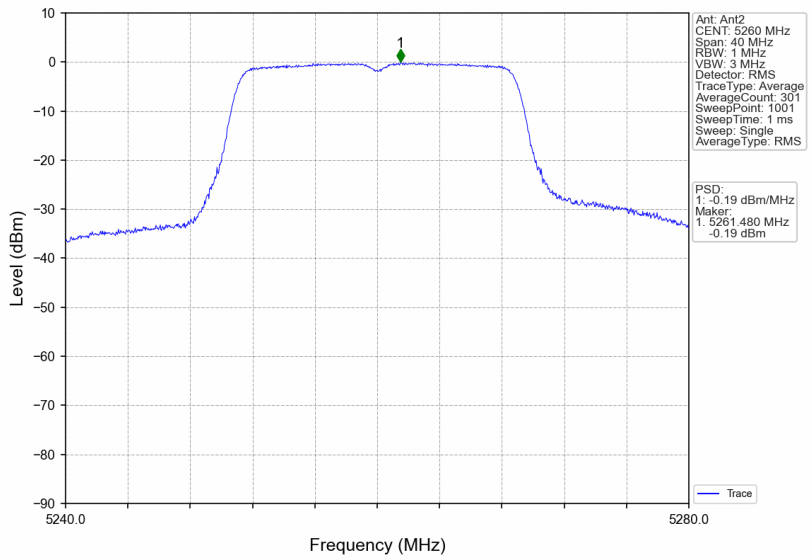
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant2_NTNV



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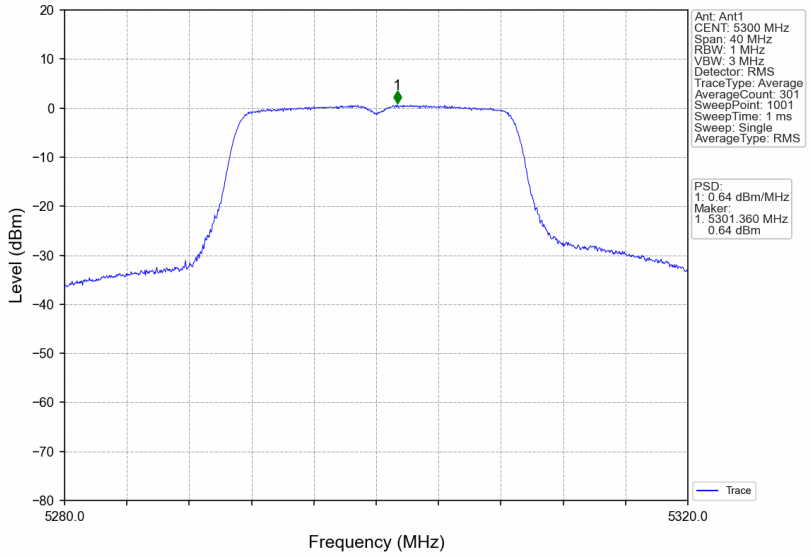
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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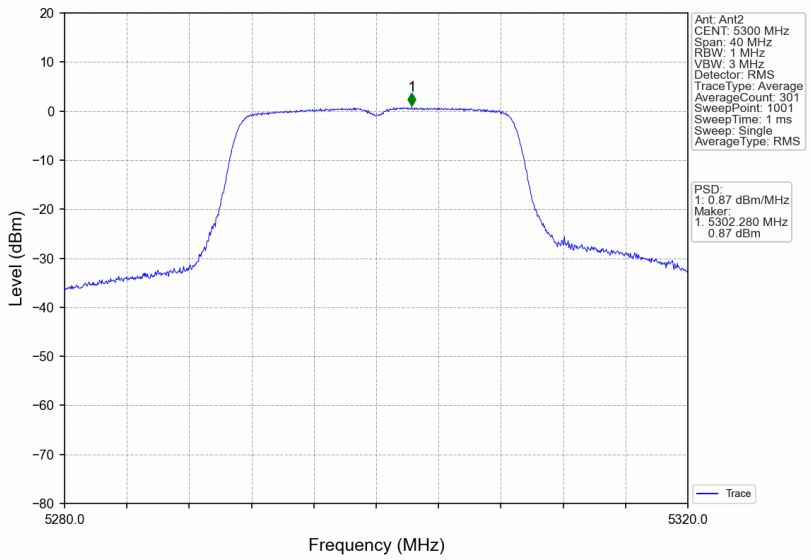

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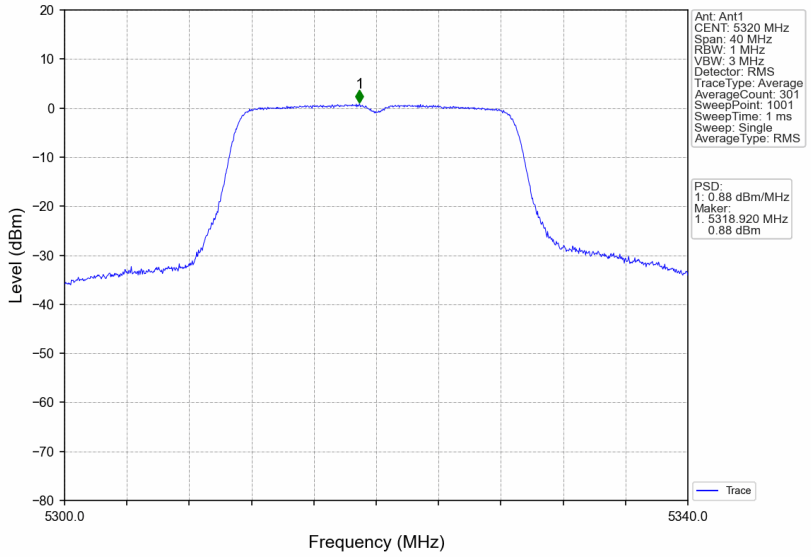
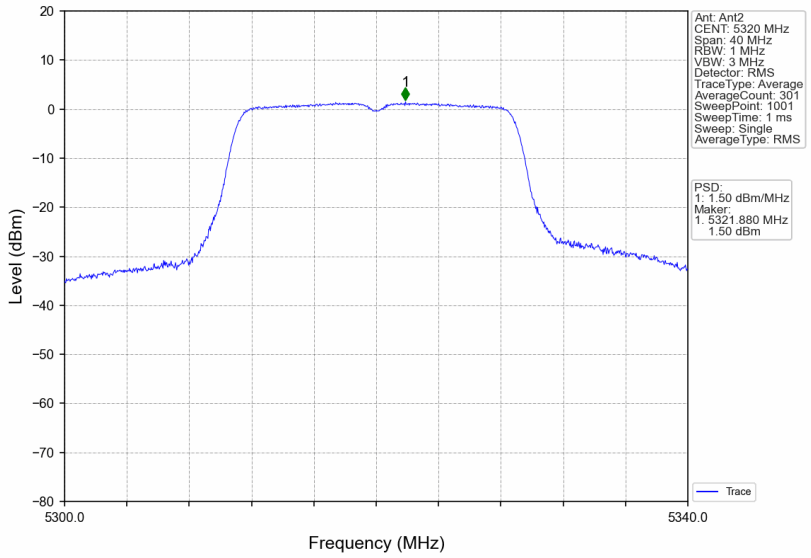
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant2_NTNV



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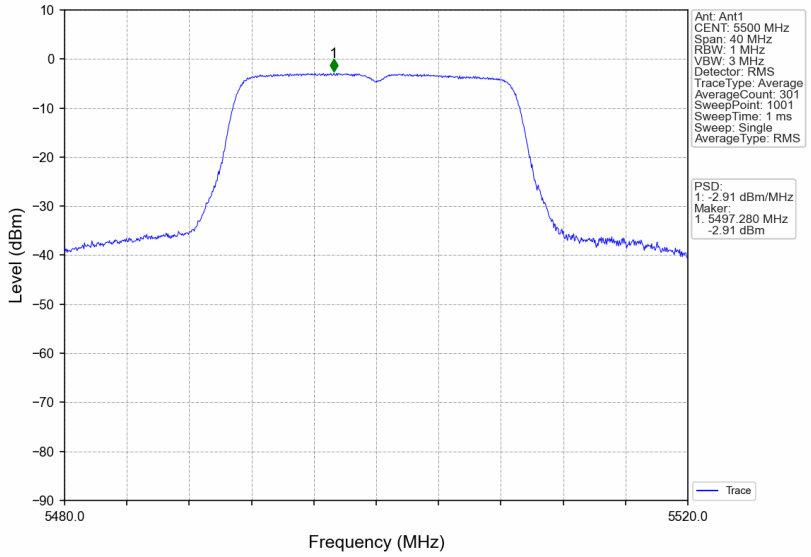
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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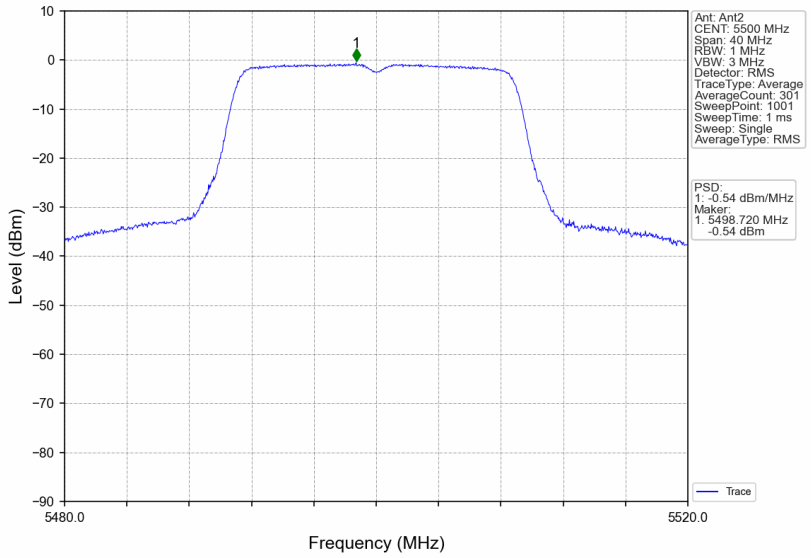

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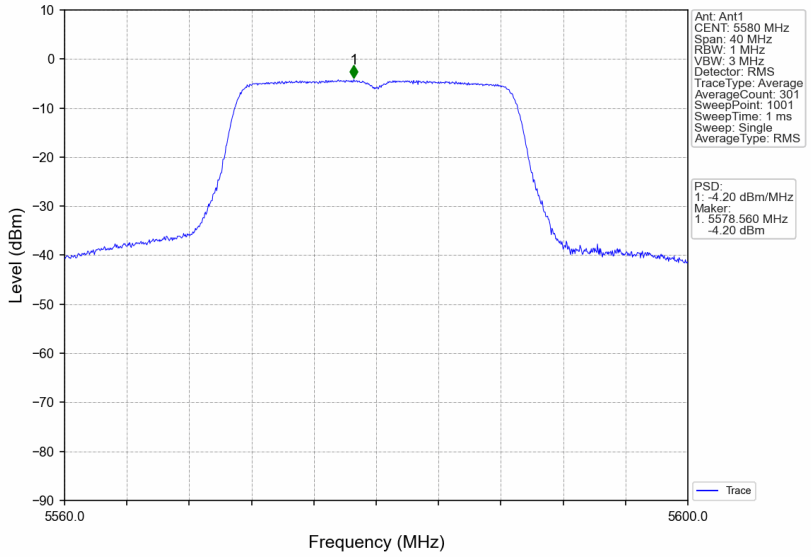
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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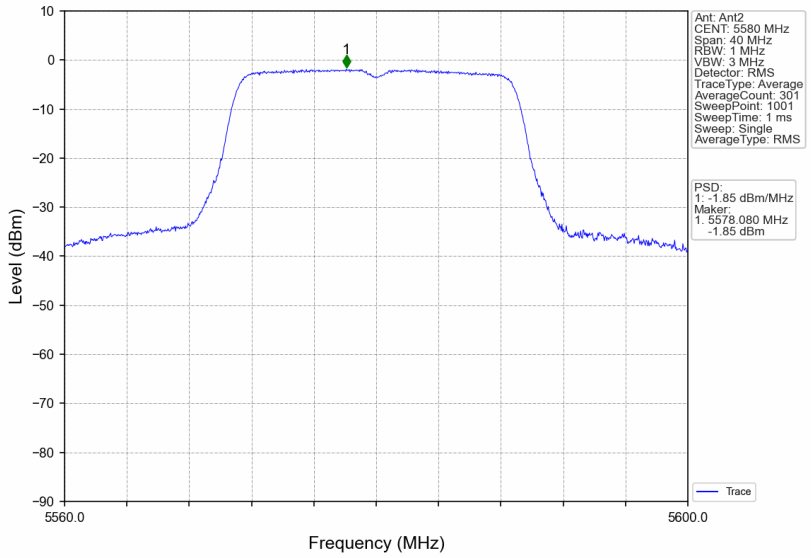

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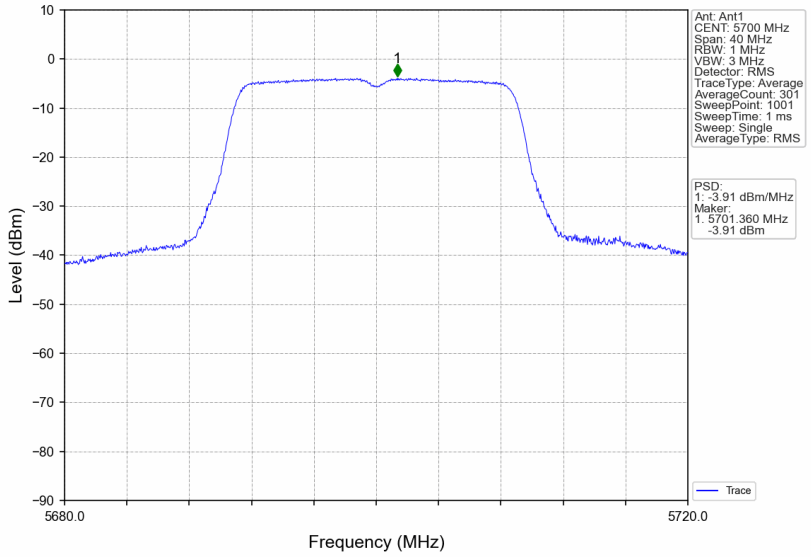
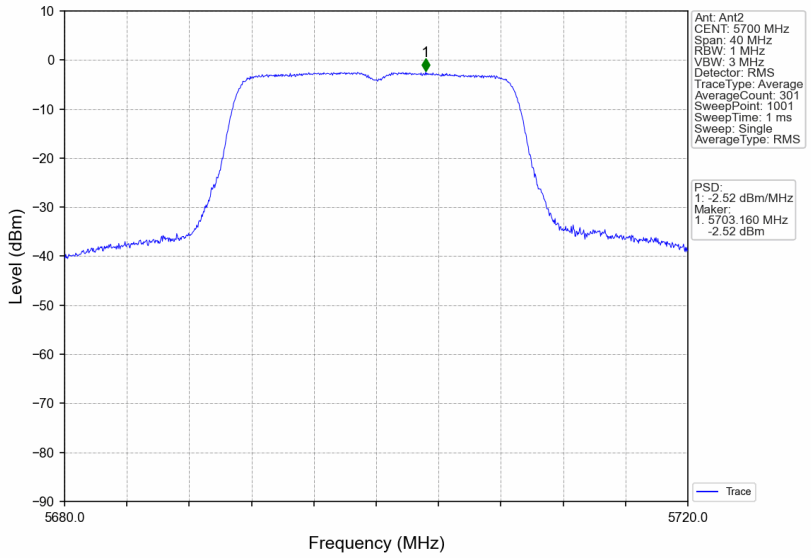
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant2_NTNV



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4.3 PSD-Band3

4.3.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5745	-6.62	-6.66	<=30	Pass
		5785	-6.07	-6.37	<=30	Pass
		5825	-5.51	-5.99	<=30	Pass
802.11n (HT20)	SISO	5745	-7.61	-6.26	<=30	Pass
		5785	-6.79	-5.89	<=30	Pass
		5825	-5.81	-5.47	<=30	Pass
Note1: Antenna Gain: Ant1: 2.04dBi; Ant2: 2.04dBi;						

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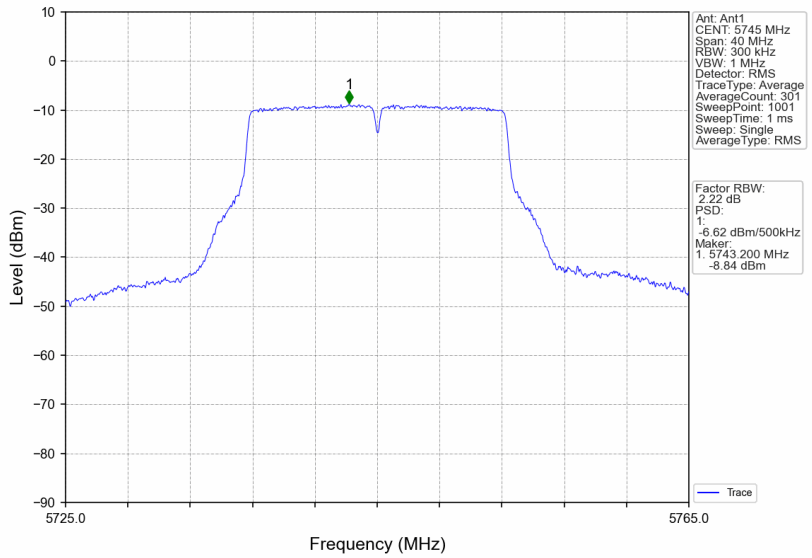
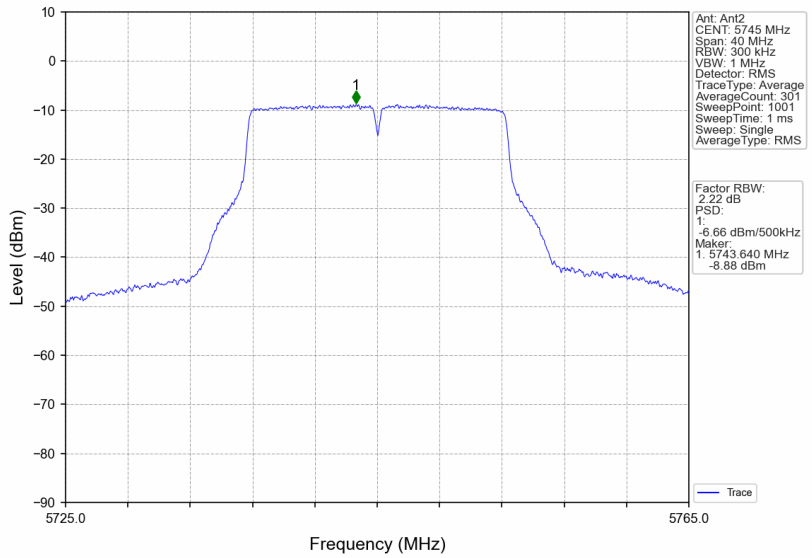
4.3.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant2_NTNV



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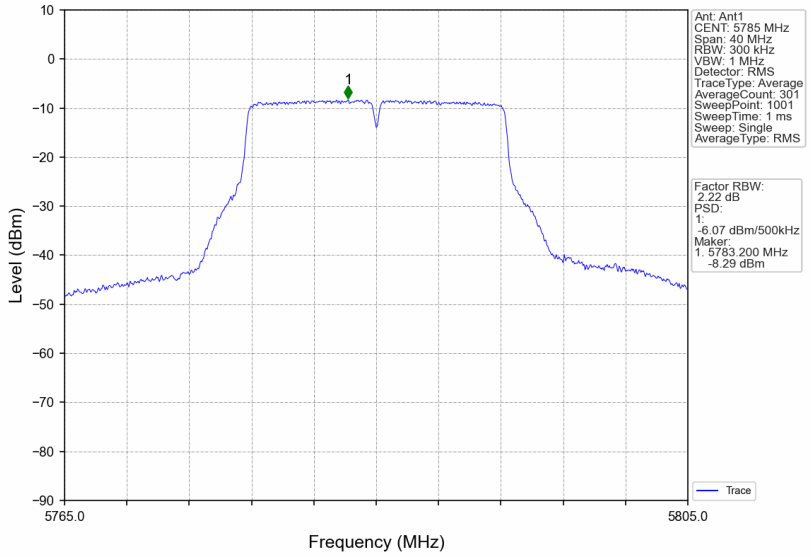
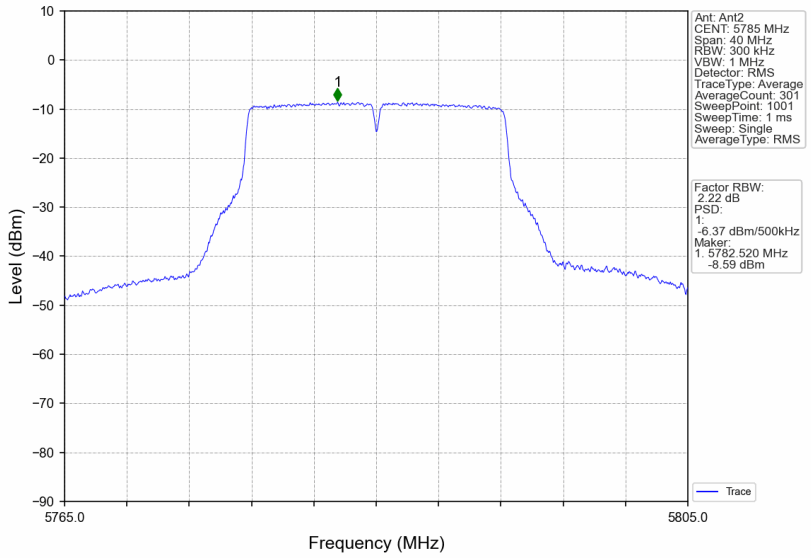
802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



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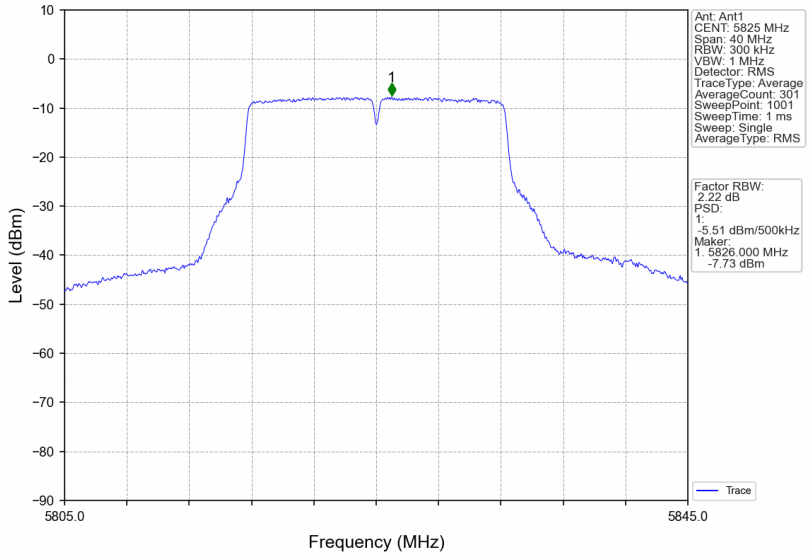
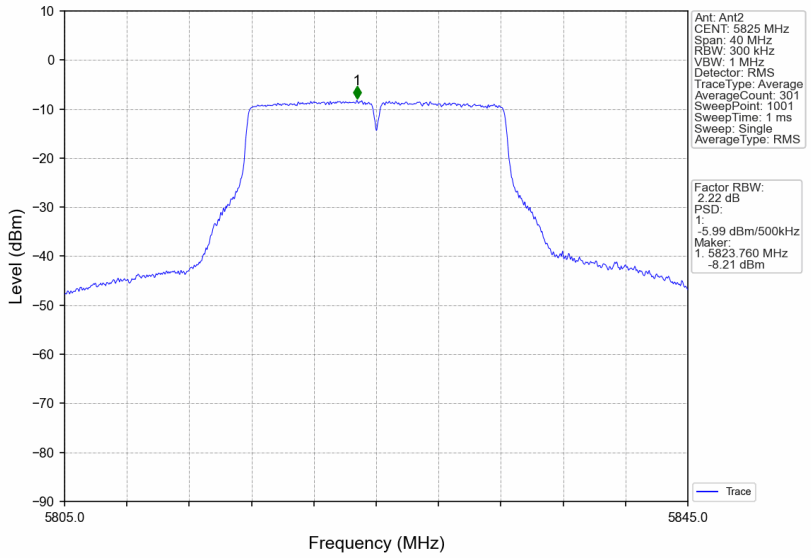
802.11a_HCH_5825MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant2_NTNV



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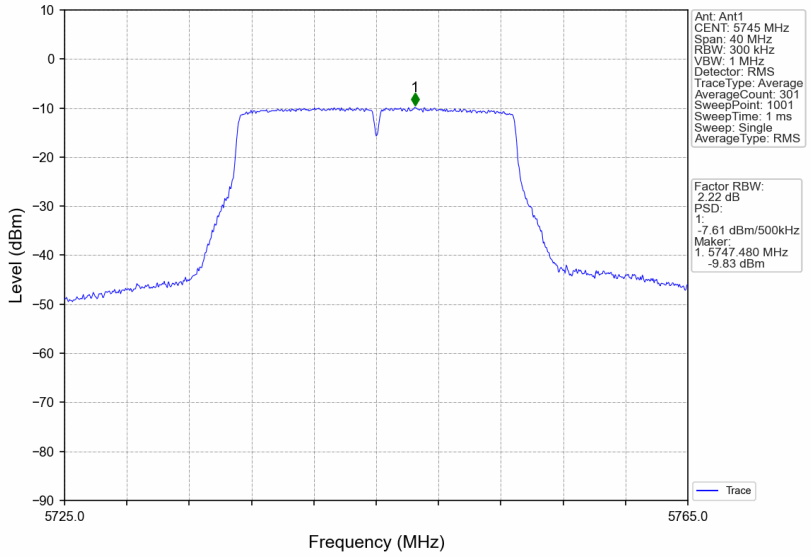
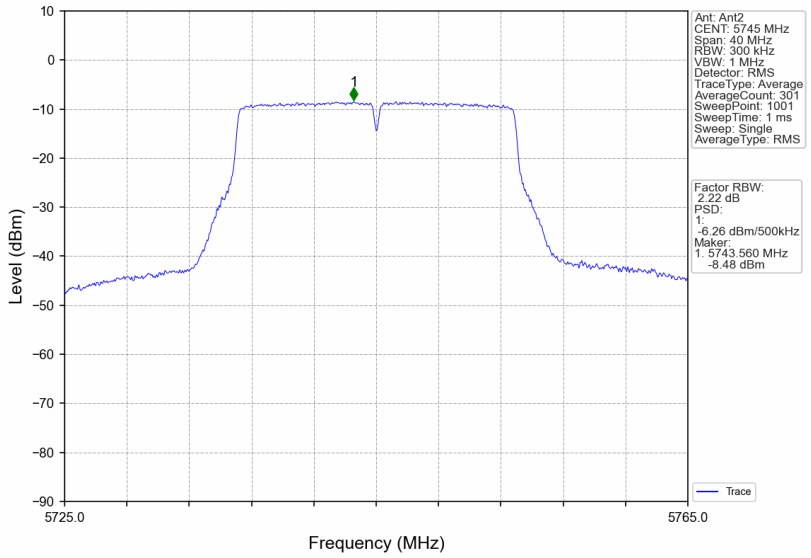
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant2_NTNV



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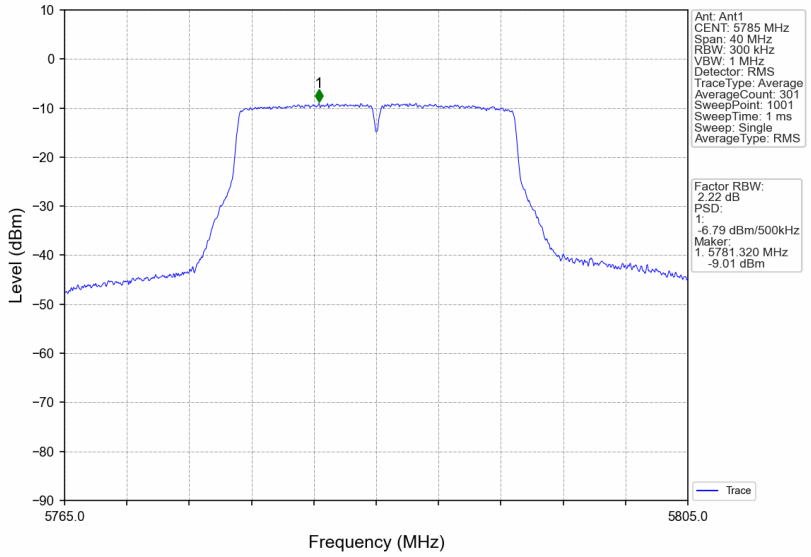
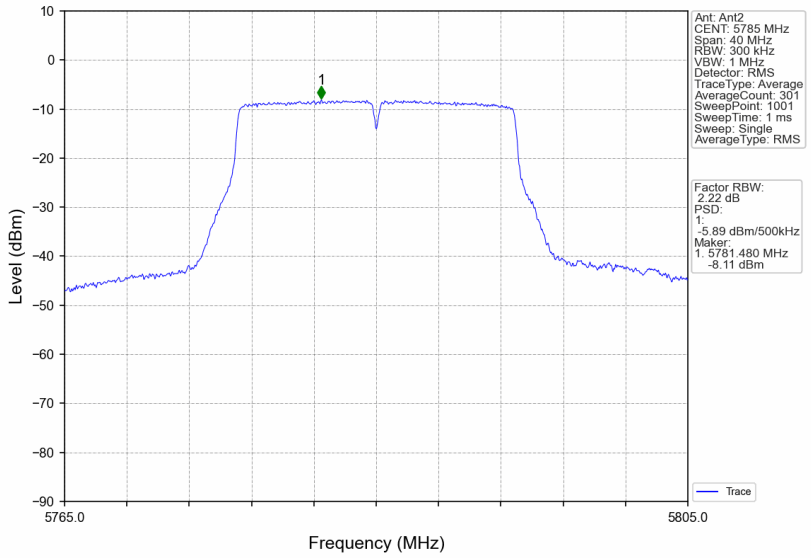
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



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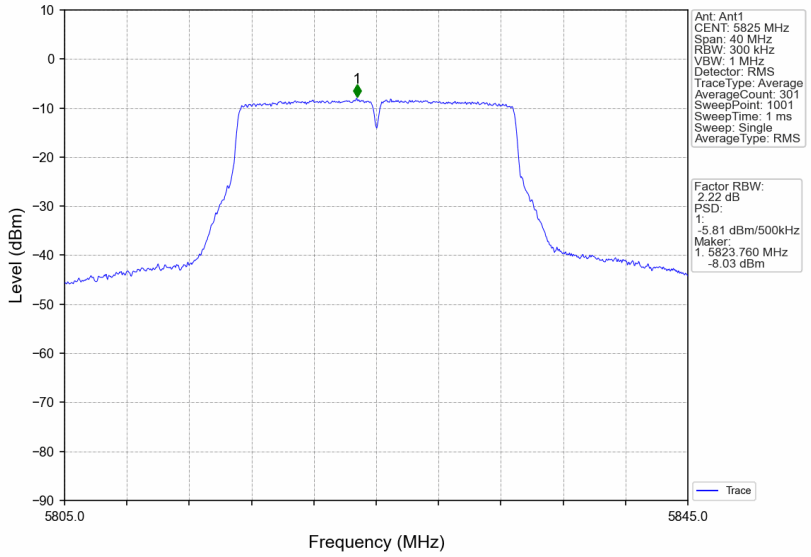
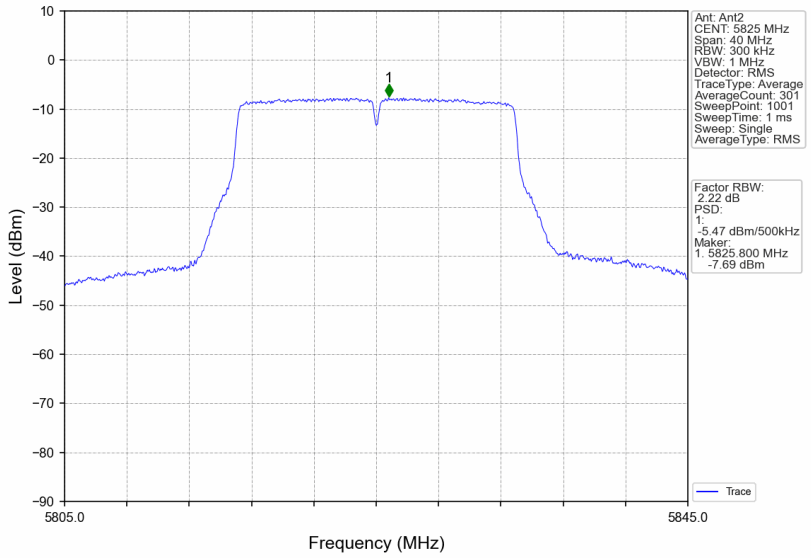
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5180.000	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
				138	5180.040	5150 to 5250	Pass
			-30	120	5180.080	5150 to 5250	Pass
			-20	120	5180.020	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
			0	120	5179.980	5150 to 5250	Pass
			10	120	5180.040	5150 to 5250	Pass
			30	120	5180.020	5150 to 5250	Pass
			40	120	5180.040	5150 to 5250	Pass
			50	120	5180.020	5150 to 5250	Pass
		5200	20	102	5200.080	5150 to 5250	Pass
				120	5200.020	5150 to 5250	Pass
				138	5200.000	5150 to 5250	Pass
			-30	120	5200.020	5150 to 5250	Pass
			-20	120	5200.060	5150 to 5250	Pass
			-10	120	5199.960	5150 to 5250	Pass
			0	120	5200.040	5150 to 5250	Pass
			10	120	5200.020	5150 to 5250	Pass
			30	120	5200.000	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5200.000	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5239.980	5150 to 5250	Pass
				138	5240.020	5150 to 5250	Pass
			-30	120	5240.020	5150 to 5250	Pass
			-20	120	5240.020	5150 to 5250	Pass
			-10	120	5240.020	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass

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			30	120	5240.000	5150 to 5250	Pass
			40	120	5240.020	5150 to 5250	Pass
			50	120	5240.040	5150 to 5250	Pass
		5260	20	102	5260.000	5250 to 5350	Pass
				120	5260.020	5250 to 5350	Pass
				138	5259.980	5250 to 5350	Pass
			-30	120	5259.980	5250 to 5350	Pass
			-20	120	5260.040	5250 to 5350	Pass
			-10	120	5260.020	5250 to 5350	Pass
			0	120	5260.000	5250 to 5350	Pass
			10	120	5260.040	5250 to 5350	Pass
			30	120	5259.980	5250 to 5350	Pass
			40	120	5260.040	5250 to 5350	Pass
			50	120	5260.020	5250 to 5350	Pass
		5300	20	102	5300.000	5250 to 5350	Pass
				120	5300.040	5250 to 5350	Pass
				138	5300.060	5250 to 5350	Pass
			-30	120	5300.020	5250 to 5350	Pass
			-20	120	5300.020	5250 to 5350	Pass
			-10	120	5299.980	5250 to 5350	Pass
			0	120	5300.080	5250 to 5350	Pass
			10	120	5300.000	5250 to 5350	Pass
			30	120	5300.000	5250 to 5350	Pass
			40	120	5300.040	5250 to 5350	Pass
			50	120	5300.000	5250 to 5350	Pass
		5320	20	102	5320.060	5250 to 5350	Pass
				120	5320.000	5250 to 5350	Pass
				138	5320.040	5250 to 5350	Pass
			-30	120	5320.020	5250 to 5350	Pass
			-20	120	5320.020	5250 to 5350	Pass
			-10	120	5319.980	5250 to 5350	Pass
			0	120	5319.980	5250 to 5350	Pass
			10	120	5320.020	5250 to 5350	Pass
			30	120	5320.040	5250 to 5350	Pass
			40	120	5319.960	5250 to 5350	Pass
			50	120	5320.020	5250 to 5350	Pass
		5500	20	102	5499.980	5470 to 5725	Pass
				120	5500.020	5470 to 5725	Pass
				138	5500.000	5470 to 5725	Pass

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			-30	120	5499.980	5470 to 5725	Pass
			-20	120	5499.980	5470 to 5725	Pass
			-10	120	5500.000	5470 to 5725	Pass
			0	120	5499.940	5470 to 5725	Pass
			10	120	5500.000	5470 to 5725	Pass
			30	120	5500.000	5470 to 5725	Pass
			40	120	5500.020	5470 to 5725	Pass
			50	120	5499.960	5470 to 5725	Pass
		5580	20	102	5580.000	5470 to 5725	Pass
				120	5580.040	5470 to 5725	Pass
				138	5580.060	5470 to 5725	Pass
			-30	120	5580.000	5470 to 5725	Pass
			-20	120	5580.020	5470 to 5725	Pass
			-10	120	5580.020	5470 to 5725	Pass
			0	120	5580.020	5470 to 5725	Pass
			10	120	5579.980	5470 to 5725	Pass
			30	120	5580.000	5470 to 5725	Pass
			40	120	5580.000	5470 to 5725	Pass
			50	120	5580.040	5470 to 5725	Pass
		5700	20	102	5699.980	5470 to 5725	Pass
				120	5699.980	5470 to 5725	Pass
				138	5699.960	5470 to 5725	Pass
			-30	120	5700.000	5470 to 5725	Pass
			-20	120	5699.960	5470 to 5725	Pass
			-10	120	5699.960	5470 to 5725	Pass
			0	120	5700.000	5470 to 5725	Pass
			10	120	5700.020	5470 to 5725	Pass
			30	120	5699.960	5470 to 5725	Pass
			40	120	5699.960	5470 to 5725	Pass
			50	120	5700.020	5470 to 5725	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5745.020	5725 to 5850	Pass
				138	5745.000	5725 to 5850	Pass
			-30	120	5745.020	5725 to 5850	Pass
			-20	120	5744.980	5725 to 5850	Pass
			-10	120	5745.000	5725 to 5850	Pass
			0	120	5745.020	5725 to 5850	Pass
			10	120	5745.040	5725 to 5850	Pass
			30	120	5744.960	5725 to 5850	Pass

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			40	120	5745.020	5725 to 5850	Pass
			50	120	5745.040	5725 to 5850	Pass
		5785	20	102	5784.980	5725 to 5850	Pass
				120	5785.060	5725 to 5850	Pass
				138	5785.020	5725 to 5850	Pass
			-30	120	5785.020	5725 to 5850	Pass
			-20	120	5785.040	5725 to 5850	Pass
			-10	120	5784.980	5725 to 5850	Pass
			0	120	5785.040	5725 to 5850	Pass
			10	120	5785.000	5725 to 5850	Pass
			30	120	5785.060	5725 to 5850	Pass
			40	120	5785.000	5725 to 5850	Pass
			50	120	5785.020	5725 to 5850	Pass
		5825	20	102	5825.020	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5825.040	5725 to 5850	Pass
			-30	120	5825.040	5725 to 5850	Pass
			-20	120	5825.000	5725 to 5850	Pass
			-10	120	5825.080	5725 to 5850	Pass
			0	120	5825.040	5725 to 5850	Pass
			10	120	5825.040	5725 to 5850	Pass
			30	120	5824.980	5725 to 5850	Pass
			40	120	5825.020	5725 to 5850	Pass
			50	120	5824.960	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	102	5180.060	5150 to 5250	Pass
				120	5180.040	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5180.060	5150 to 5250	Pass
			-20	120	5180.100	5150 to 5250	Pass
			-10	120	5180.080	5150 to 5250	Pass
			0	120	5180.060	5150 to 5250	Pass
			10	120	5180.120	5150 to 5250	Pass
			30	120	5180.060	5150 to 5250	Pass
			40	120	5180.060	5150 to 5250	Pass
			50	120	5180.040	5150 to 5250	Pass
		5200	20	102	5200.000	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				138	5200.020	5150 to 5250	Pass
			-30	120	5200.060	5150 to 5250	Pass

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			-20	120	5200.040	5150 to 5250	Pass
			-10	120	5200.000	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5200.020	5150 to 5250	Pass
			30	120	5200.060	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5199.980	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.020	5150 to 5250	Pass
				138	5240.000	5150 to 5250	Pass
			-30	120	5240.040	5150 to 5250	Pass
			-20	120	5240.020	5150 to 5250	Pass
			-10	120	5240.060	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5240.040	5150 to 5250	Pass
			30	120	5240.020	5150 to 5250	Pass
			40	120	5240.020	5150 to 5250	Pass
			50	120	5240.040	5150 to 5250	Pass
		5260	20	102	5260.040	5250 to 5350	Pass
				120	5260.040	5250 to 5350	Pass
				138	5260.100	5250 to 5350	Pass
			-30	120	5260.040	5250 to 5350	Pass
			-20	120	5260.060	5250 to 5350	Pass
			-10	120	5260.060	5250 to 5350	Pass
			0	120	5260.000	5250 to 5350	Pass
			10	120	5260.020	5250 to 5350	Pass
			30	120	5260.060	5250 to 5350	Pass
			40	120	5260.020	5250 to 5350	Pass
			50	120	5260.060	5250 to 5350	Pass
		5300	20	102	5300.060	5250 to 5350	Pass
				120	5300.020	5250 to 5350	Pass
				138	5300.060	5250 to 5350	Pass
			-30	120	5300.060	5250 to 5350	Pass
			-20	120	5300.040	5250 to 5350	Pass
			-10	120	5300.060	5250 to 5350	Pass
			0	120	5300.020	5250 to 5350	Pass
			10	120	5300.040	5250 to 5350	Pass
			30	120	5300.060	5250 to 5350	Pass
			40	120	5300.060	5250 to 5350	Pass

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			50	120	5300.000	5250 to 5350	Pass
		5320	20	102	5320.040	5250 to 5350	Pass
				120	5320.040	5250 to 5350	Pass
				138	5320.040	5250 to 5350	Pass
			-30	120	5320.060	5250 to 5350	Pass
			-20	120	5320.020	5250 to 5350	Pass
			-10	120	5320.020	5250 to 5350	Pass
			0	120	5320.040	5250 to 5350	Pass
			10	120	5320.040	5250 to 5350	Pass
			30	120	5320.000	5250 to 5350	Pass
			40	120	5319.980	5250 to 5350	Pass
			50	120	5320.040	5250 to 5350	Pass
		5500	20	102	5500.000	5470 to 5725	Pass
				120	5500.020	5470 to 5725	Pass
				138	5500.040	5470 to 5725	Pass
			-30	120	5500.000	5470 to 5725	Pass
			-20	120	5500.020	5470 to 5725	Pass
			-10	120	5500.020	5470 to 5725	Pass
			0	120	5500.040	5470 to 5725	Pass
			10	120	5499.940	5470 to 5725	Pass
			30	120	5500.020	5470 to 5725	Pass
			40	120	5500.000	5470 to 5725	Pass
			50	120	5500.020	5470 to 5725	Pass
		5580	20	102	5579.960	5470 to 5725	Pass
				120	5580.000	5470 to 5725	Pass
				138	5580.020	5470 to 5725	Pass
			-30	120	5580.020	5470 to 5725	Pass
			-20	120	5579.960	5470 to 5725	Pass
			-10	120	5580.020	5470 to 5725	Pass
			0	120	5580.020	5470 to 5725	Pass
			10	120	5580.040	5470 to 5725	Pass
			30	120	5580.020	5470 to 5725	Pass
			40	120	5579.980	5470 to 5725	Pass
			50	120	5579.980	5470 to 5725	Pass
		5700	20	102	5700.020	5470 to 5725	Pass
				120	5700.020	5470 to 5725	Pass
				138	5699.960	5470 to 5725	Pass
			-30	120	5700.020	5470 to 5725	Pass
			-20	120	5699.980	5470 to 5725	Pass

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			-10	120	5700.020	5470 to 5725	Pass
			0	120	5700.000	5470 to 5725	Pass
			10	120	5700.080	5470 to 5725	Pass
			30	120	5700.020	5470 to 5725	Pass
			40	120	5699.960	5470 to 5725	Pass
			50	120	5700.020	5470 to 5725	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5745.040	5725 to 5850	Pass
				138	5745.040	5725 to 5850	Pass
			-30	120	5745.000	5725 to 5850	Pass
			-20	120	5745.020	5725 to 5850	Pass
			-10	120	5745.020	5725 to 5850	Pass
			0	120	5745.000	5725 to 5850	Pass
			10	120	5745.020	5725 to 5850	Pass
			30	120	5744.980	5725 to 5850	Pass
			40	120	5744.980	5725 to 5850	Pass
			50	120	5745.020	5725 to 5850	Pass
		5785	20	102	5784.960	5725 to 5850	Pass
				120	5784.960	5725 to 5850	Pass
				138	5785.080	5725 to 5850	Pass
			-30	120	5785.020	5725 to 5850	Pass
			-20	120	5784.980	5725 to 5850	Pass
			-10	120	5785.000	5725 to 5850	Pass
			0	120	5784.960	5725 to 5850	Pass
			10	120	5785.060	5725 to 5850	Pass
			30	120	5785.020	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5785.000	5725 to 5850	Pass
		5825	20	102	5825.020	5725 to 5850	Pass
				120	5825.020	5725 to 5850	Pass
				138	5825.000	5725 to 5850	Pass
			-30	120	5825.040	5725 to 5850	Pass
			-20	120	5825.020	5725 to 5850	Pass
			-10	120	5825.020	5725 to 5850	Pass
			0	120	5825.060	5725 to 5850	Pass
			10	120	5825.000	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
			40	120	5825.020	5725 to 5850	Pass
			50	120	5825.060	5725 to 5850	Pass

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