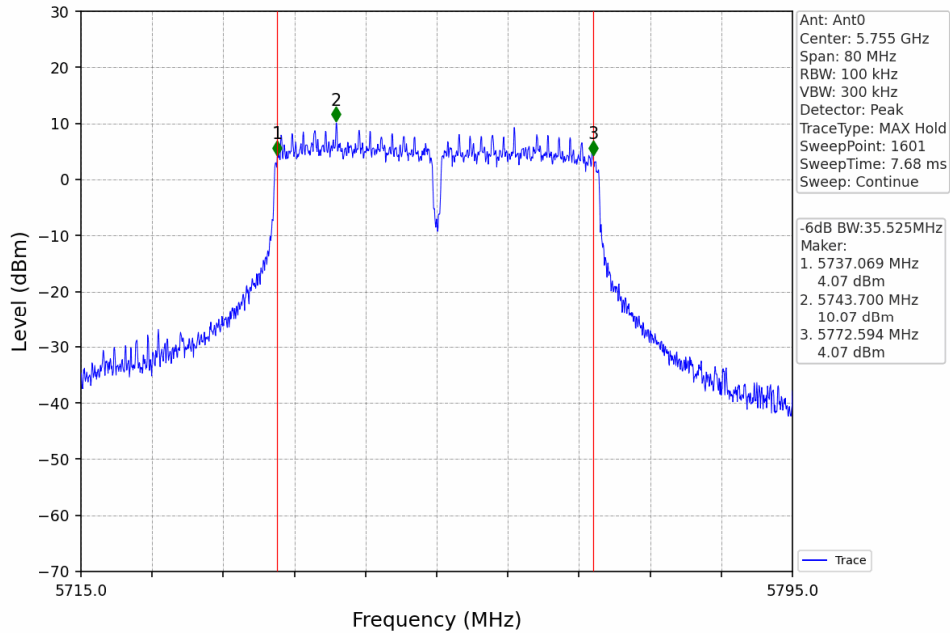
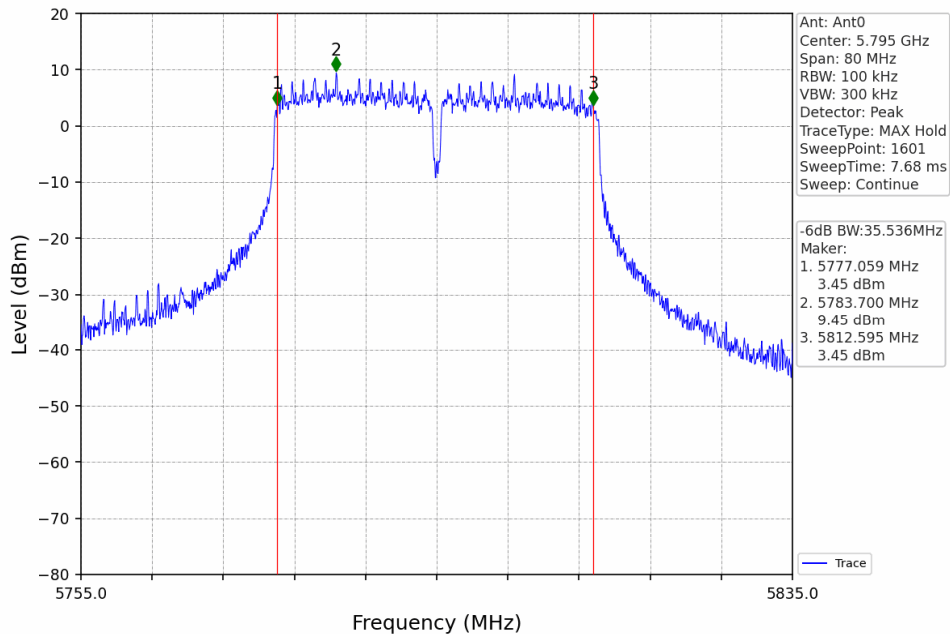


802.11n(HT40)_LCH_5755MHz_Ant0_NTNV



802.11n(HT40)_HCH_5795MHz_Ant0_NTNV



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2.3 26dB BW

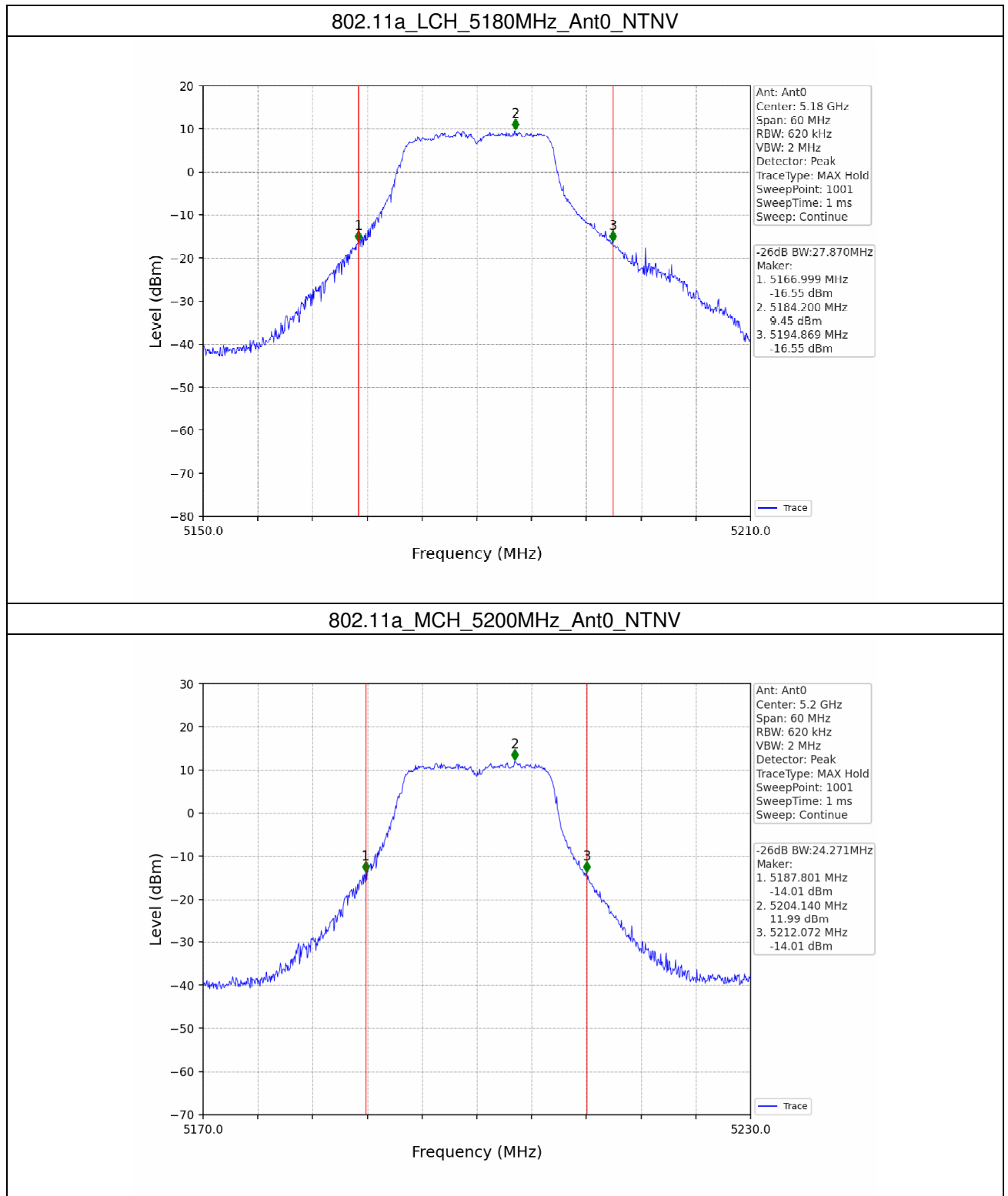
2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	0	27.870	Pass
		5200	0	24.271	Pass
		5240	0	24.095	Pass
802.11n (HT20)	MIMO	5180	0	24.338	Pass
		5200	0	24.512	Pass
		5240	0	23.248	Pass
802.11n (HT40)	MIMO	5190	0	47.859	Pass
		5230	0	48.150	Pass



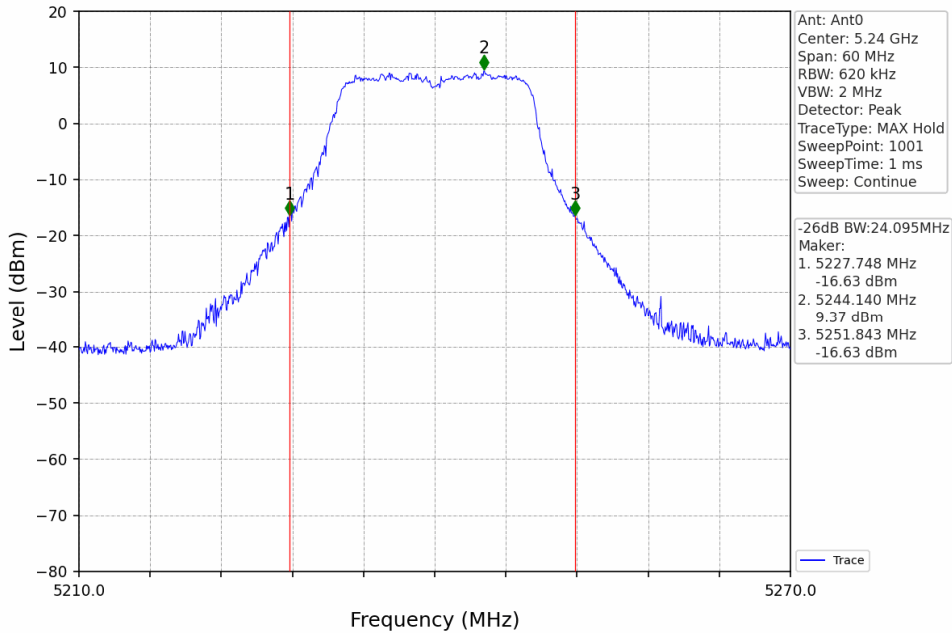
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2.3.2 Test Graph

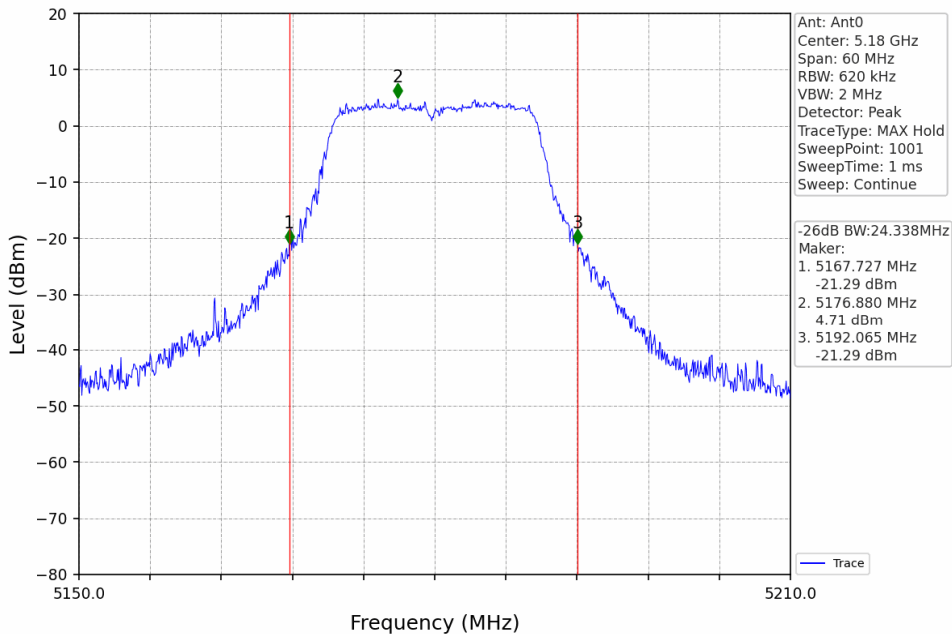


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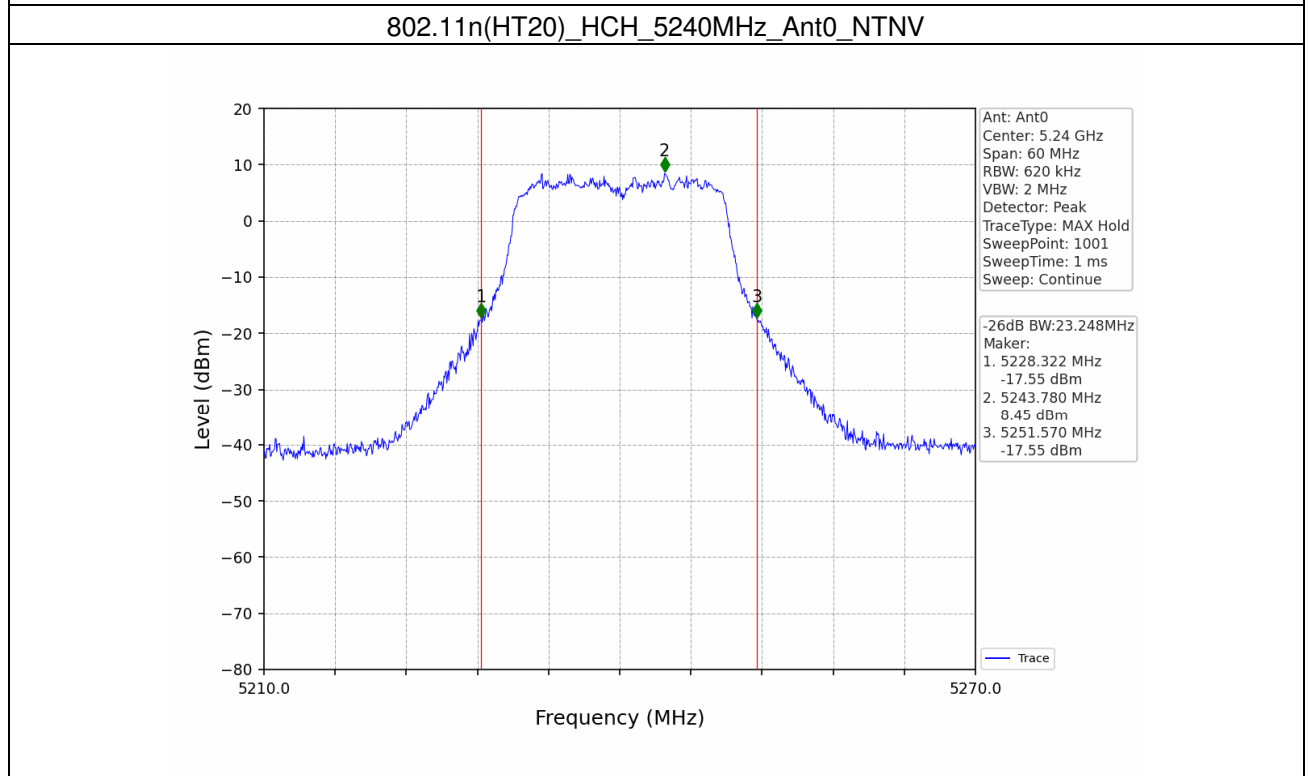
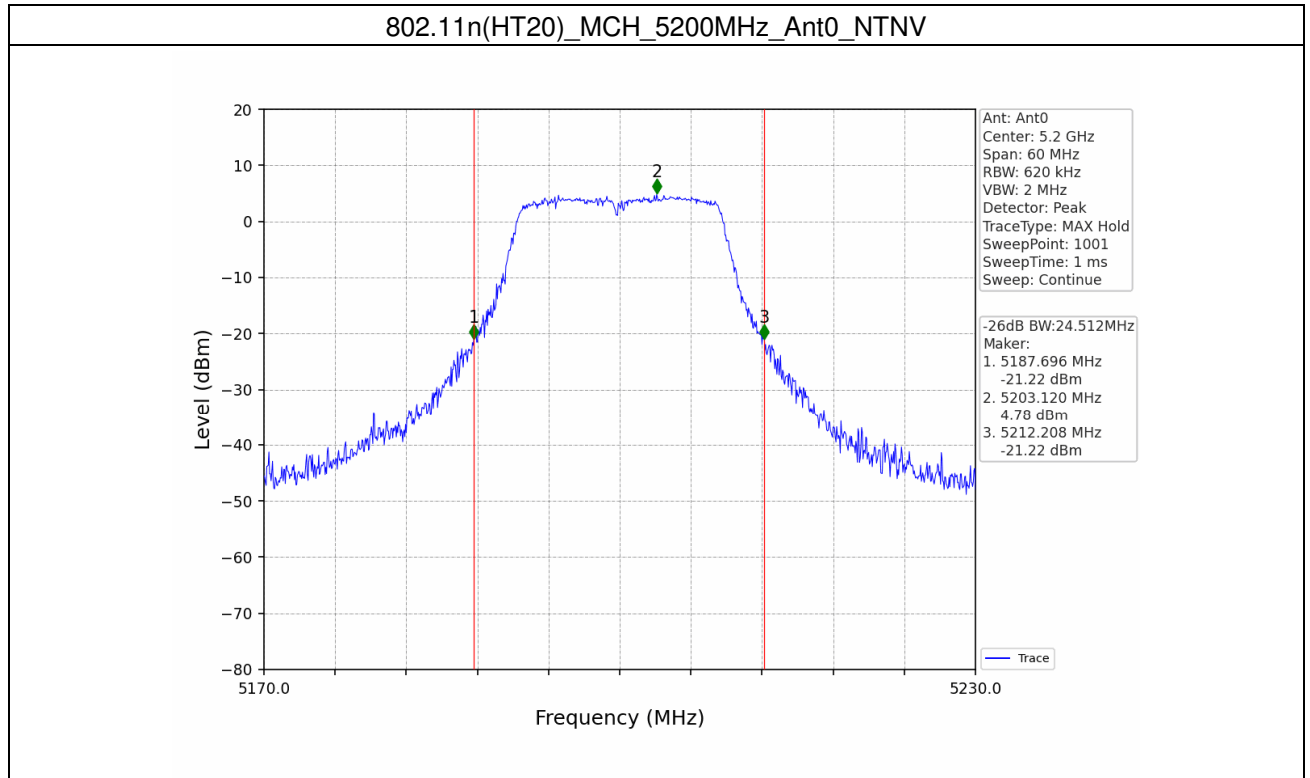
802.11a_HCH_5240MHz_Ant0_NTNV



802.11n(HT20)_LCH_5180MHz_Ant0_NTNV



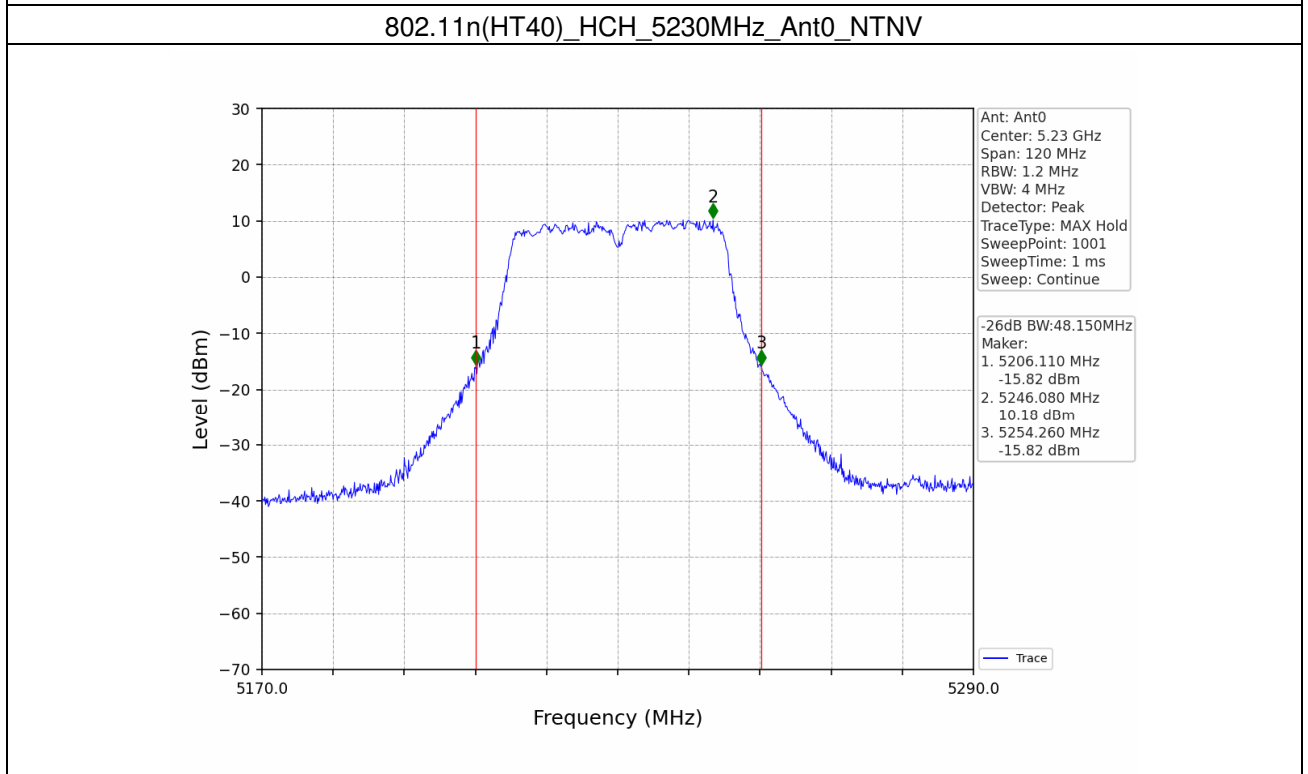
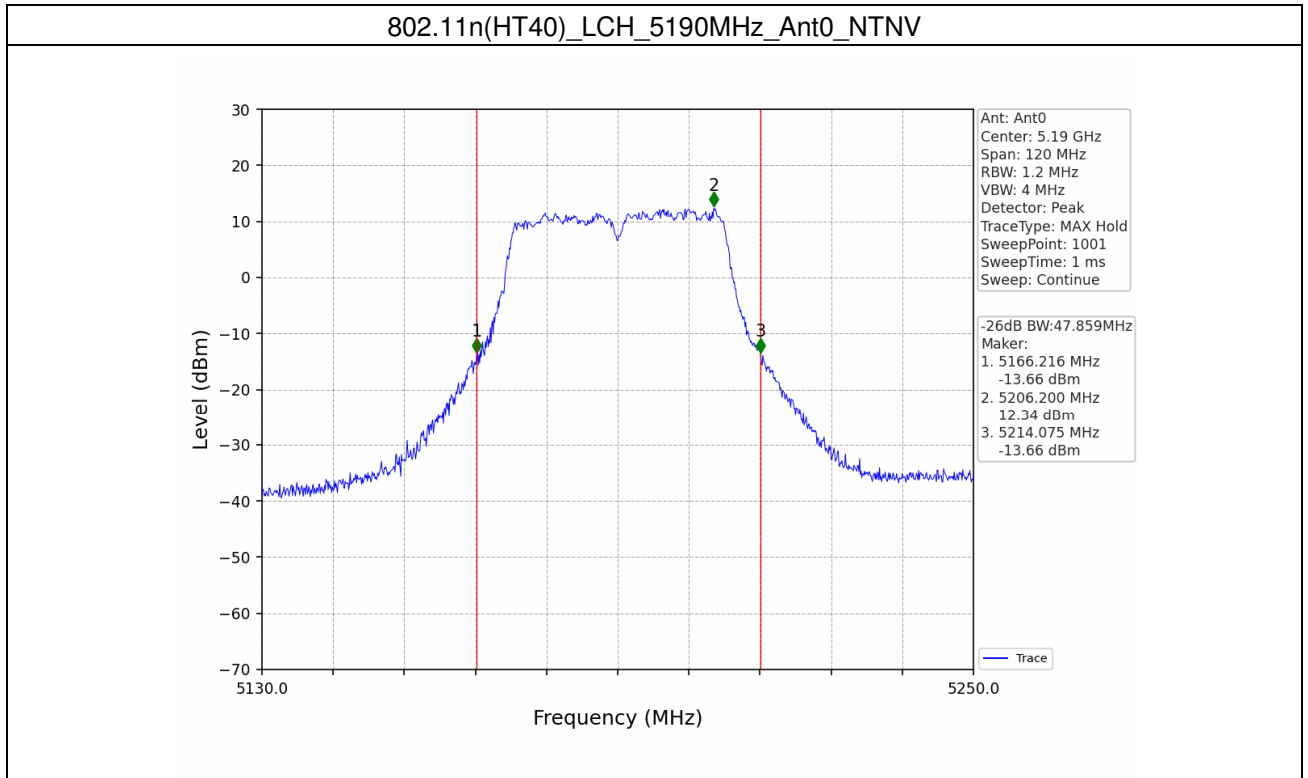
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				Verdict
			ANT0	ANT1	MIMO	Limit	
802.11a	SISO	5180	15.97	17.06	/	<=23.98	Pass
		5200	15.09	15.05	/	<=23.98	Pass
		5240	15.11	16.06	/	<=23.98	Pass
		5745	23.00	22.59	/	<=30	Pass
		5785	23.05	23.05	/	<=30	Pass
		5825	21.66	21.78	/	<=30	Pass
802.11n (HT20)	MIMO	5180	12.48	13.77	16.18	<=30	Pass
		5200	13.65	14.05	16.86	<=30	Pass
		5240	13.21	12.49	15.88	<=30	Pass
		5745	22.26	22.38	25.33	<=30	Pass
		5785	22.09	22.75	25.44	<=30	Pass
		5825	21.20	21.40	24.31	<=30	Pass
802.11n (HT40)	MIMO	5190	13.67	14.17	16.94	<=30	Pass
		5230	14.66	15.25	17.98	<=30	Pass
		5755	22.50	22.65	25.59	<=30	Pass
		5795	22.36	23.12	25.77	<=30	Pass

Note1: Antenna Gain: Antenna 0&1=4dBi
 Note2: Array Gain=0dBi
 Note3: Directional Gain=G_{ANT}+ Array Gain = 4dBi+0dBi = 4dBi.



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4. Maximum Power Spectral Density

4.1 PSD: U-NII-1

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
802.11a	SISO	5180	4.81	5.72	/	<=11	Pass
		5200	3.94	3.87	/	<=11	Pass
		5240	4.02	4.81	/	<=11	Pass
802.11n (HT20)	MIMO	5180	1.36	2.51	4.77	<=9.99	Pass
		5200	2.33	2.87	5.46	<=9.99	Pass
		5240	1.87	1.30	4.50	<=9.99	Pass
802.11n (HT40)	MIMO	5190	-0.61	-0.10	2.59	<=9.99	Pass
		5230	0.35	1.05	3.69	<=9.99	Pass

Note1: Antenna Gain: Antenna 0&1=4dBi

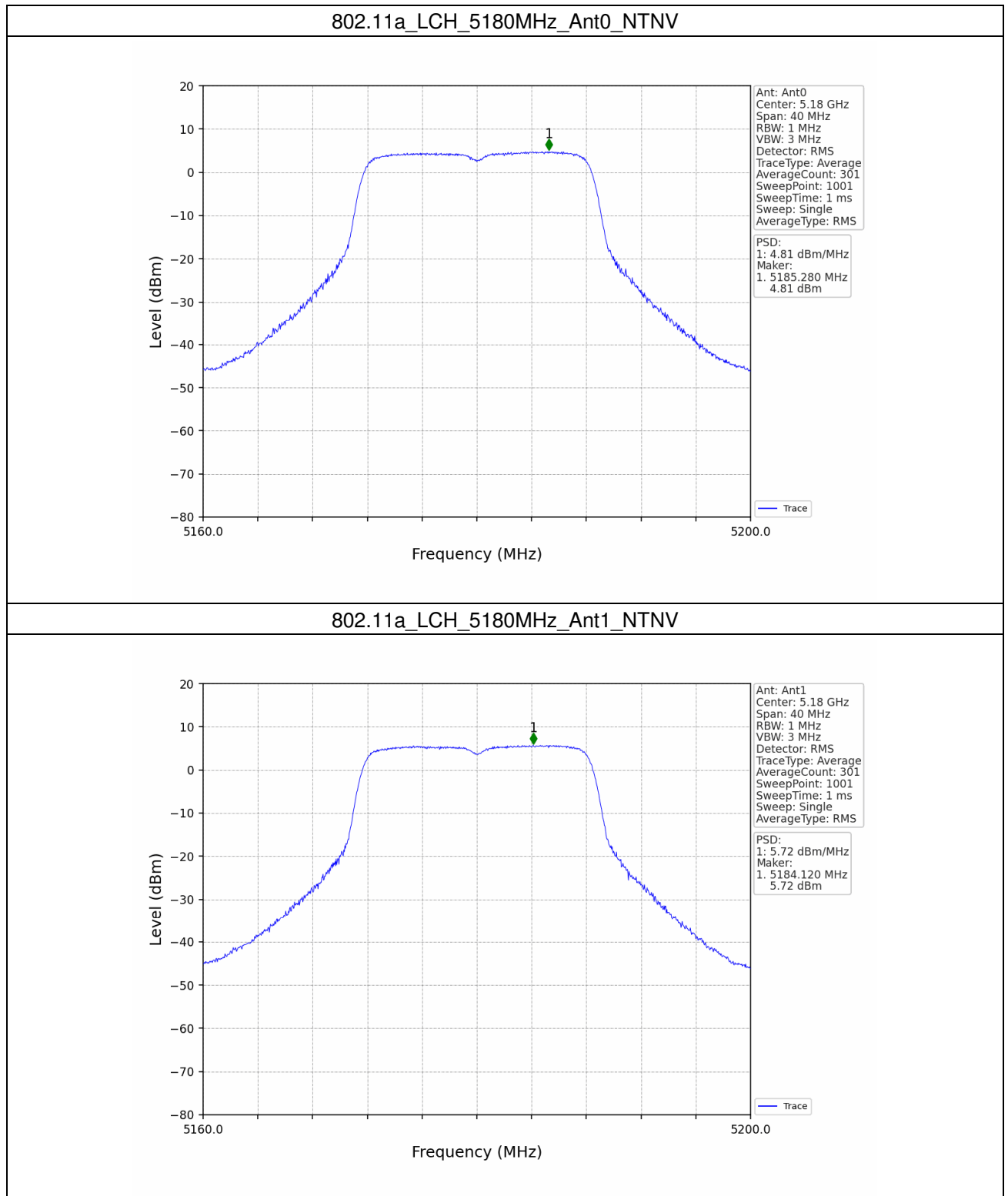
Note2: Array Gain= 10 log(N_{ANT}/N_{SS}) dB =3.01dBi

Note3: Directional Gain=G_{ANT}+ Array Gain = 4dBi+3.01dBi = 7.01dBi.



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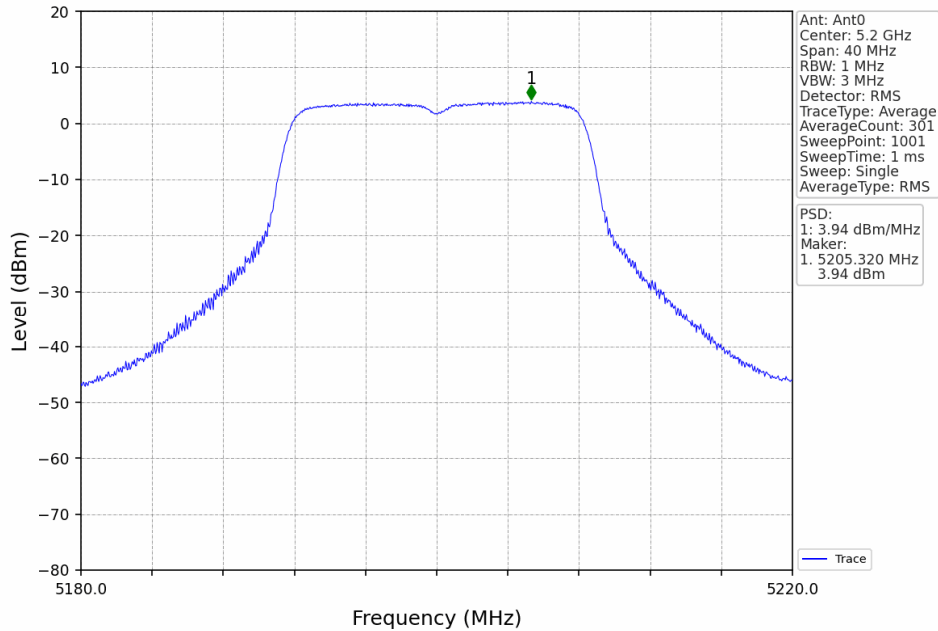
4.1.2 Test Graph



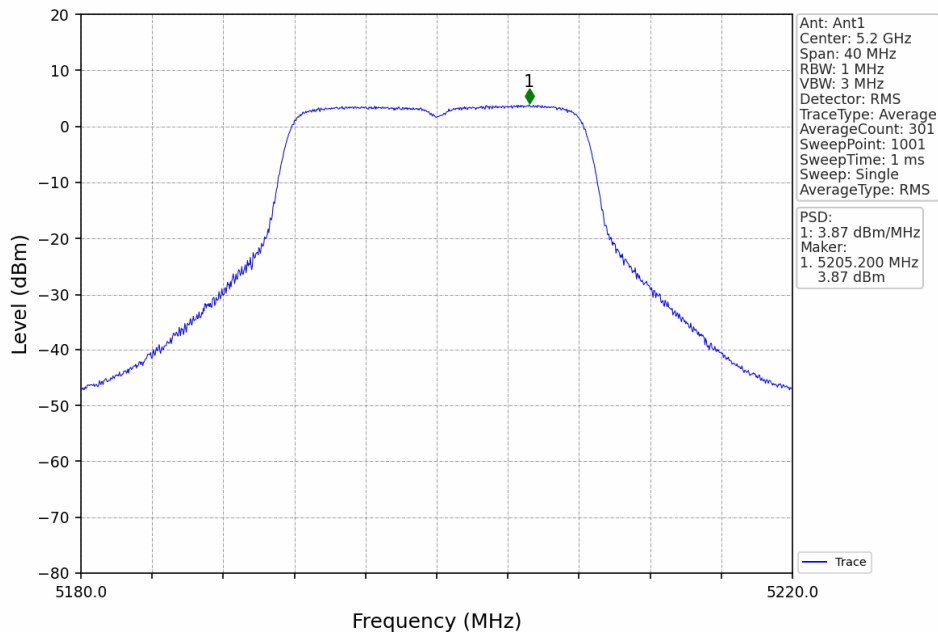
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802.11a_MCH_5200MHz_Ant0_NTNV

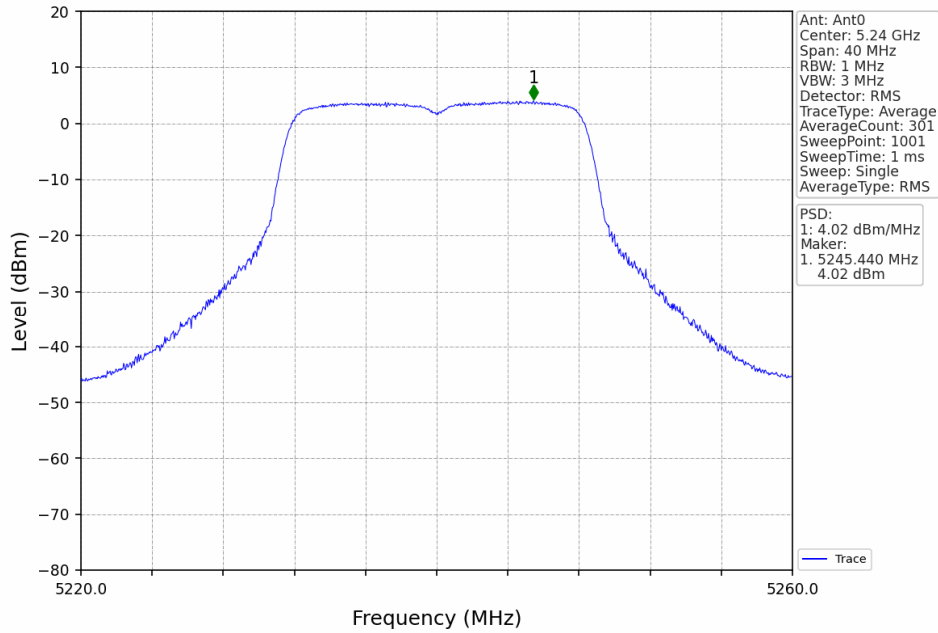


802.11a_MCH_5200MHz_Ant1_NTNV

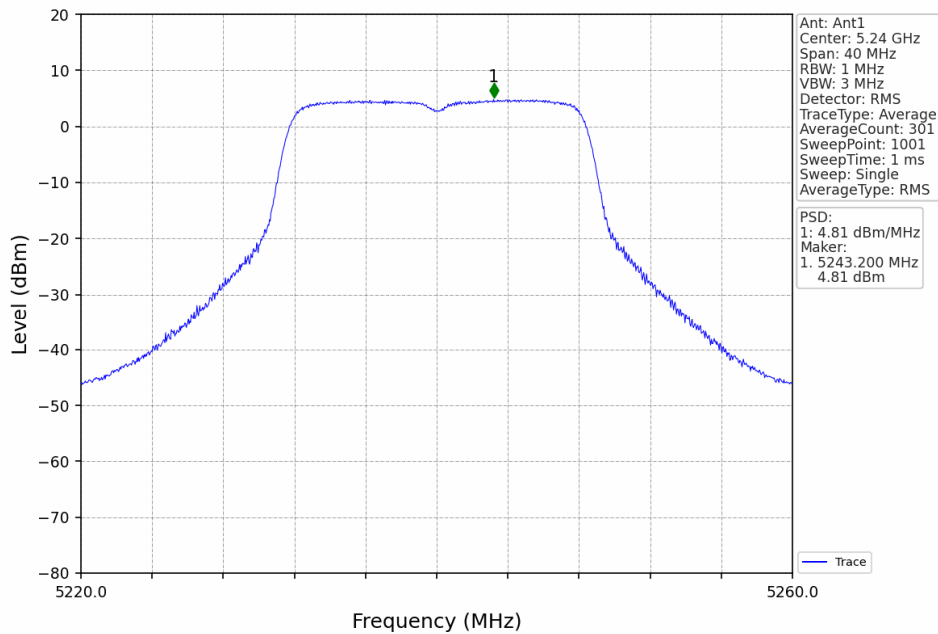


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802.11a_HCH_5240MHz_Ant0_NTNV



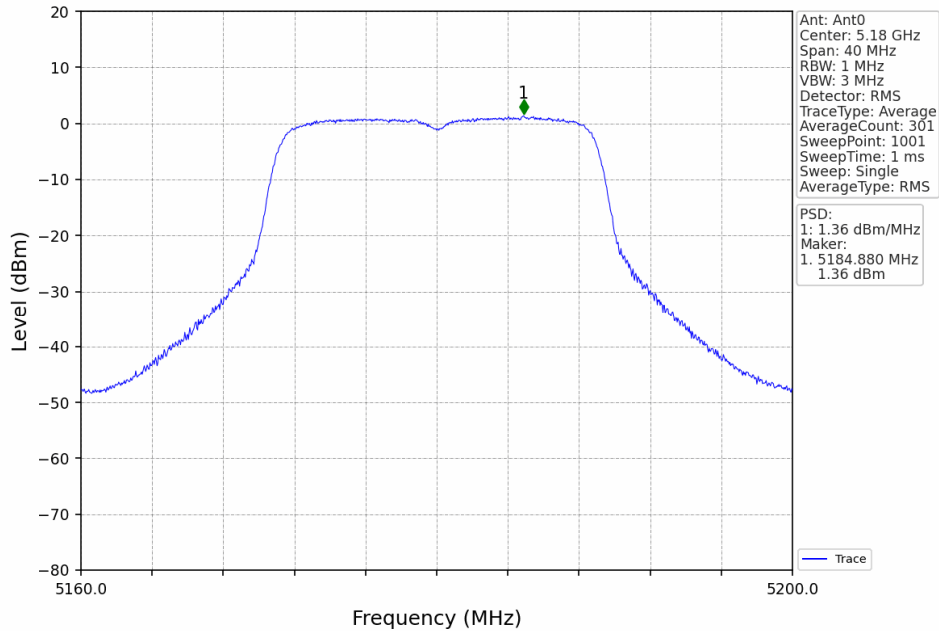
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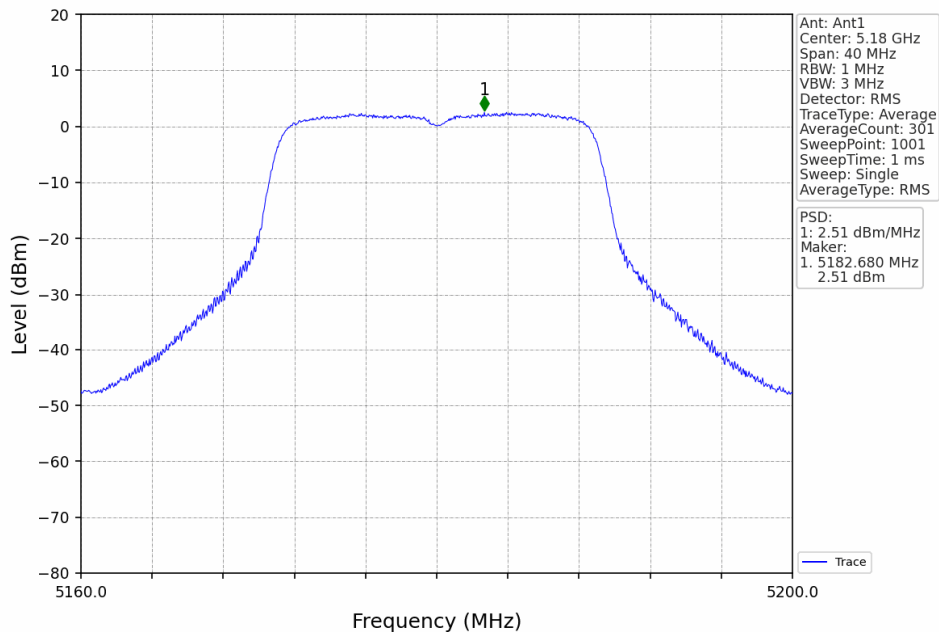
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802.11n(HT20)_LCH_5180MHz_Ant0_NTNV



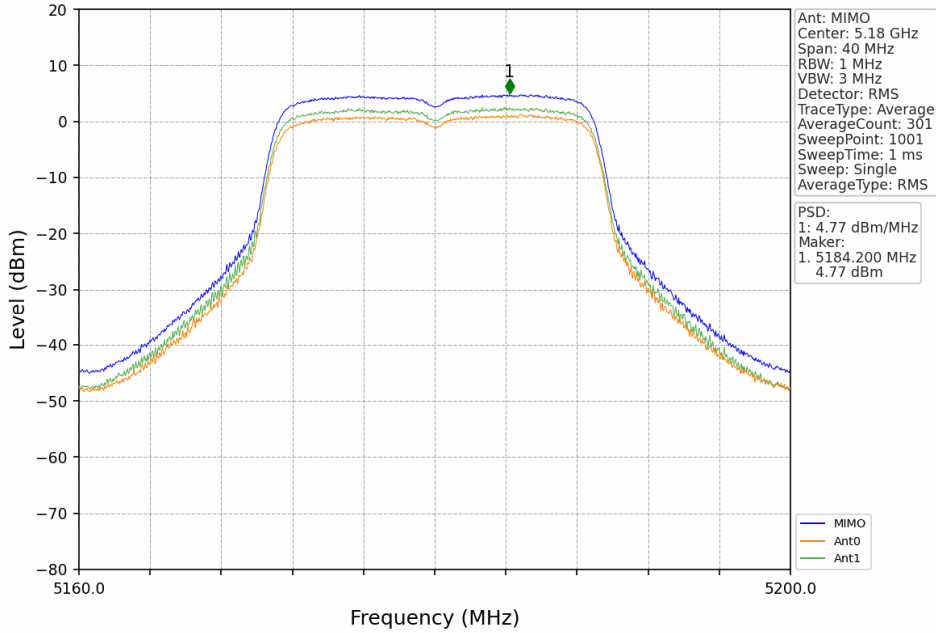
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



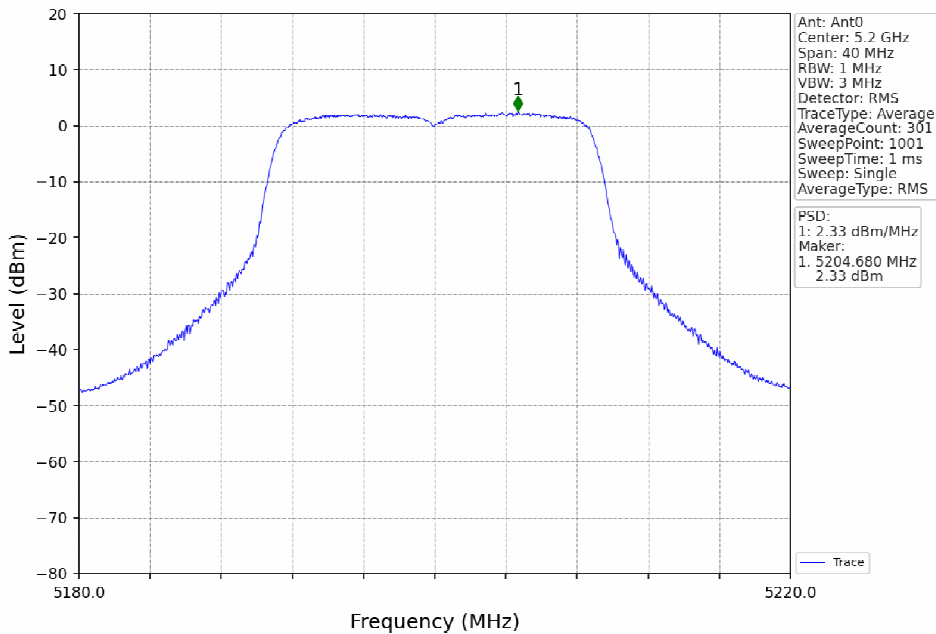
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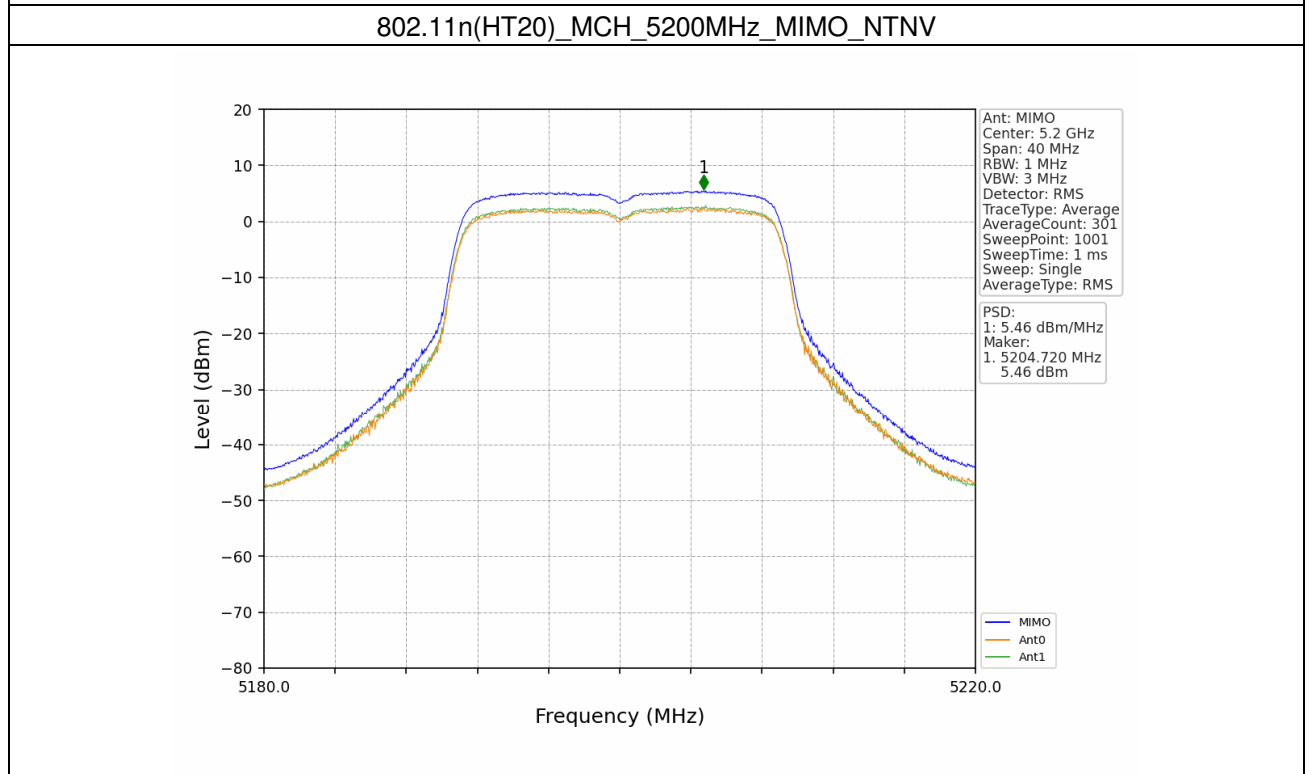
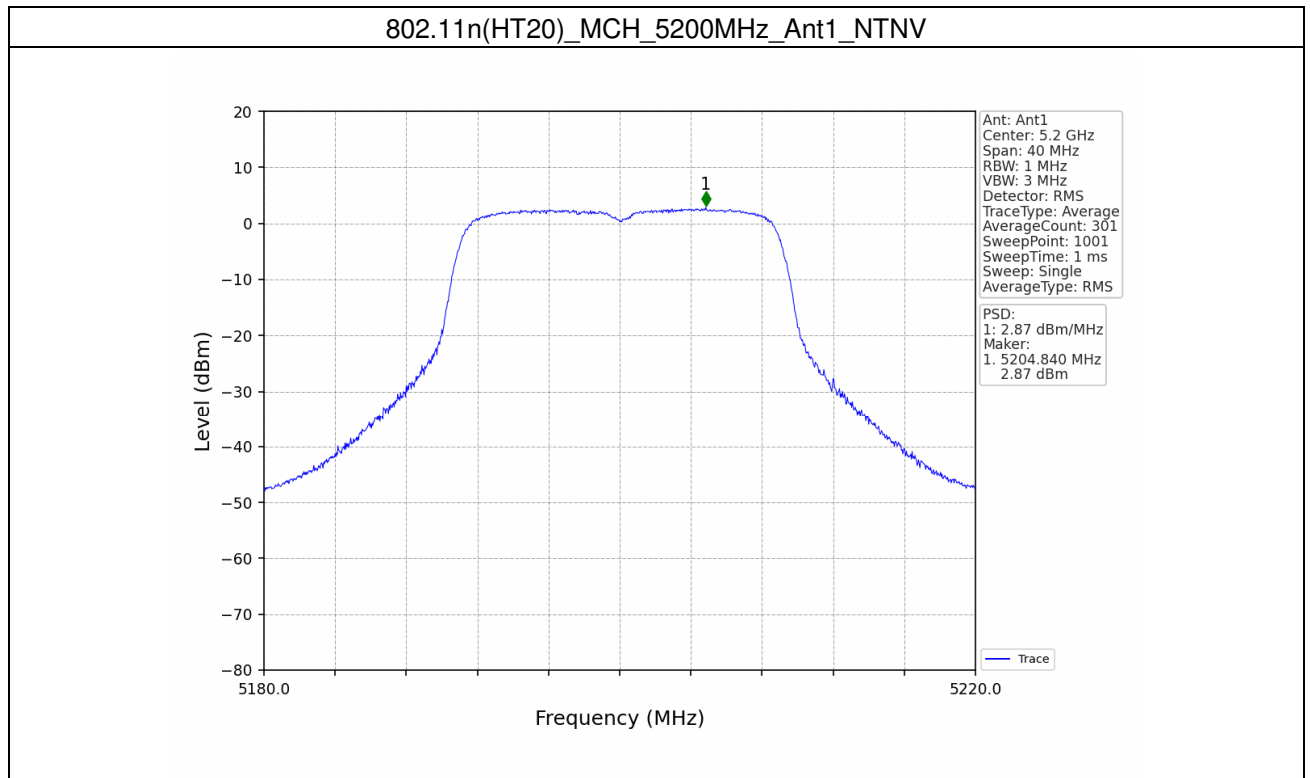
802.11n(HT20)_LCH_5180MHz_MIMO_NTNV



802.11n(HT20)_MCH_5200MHz_Ant0_NTNV

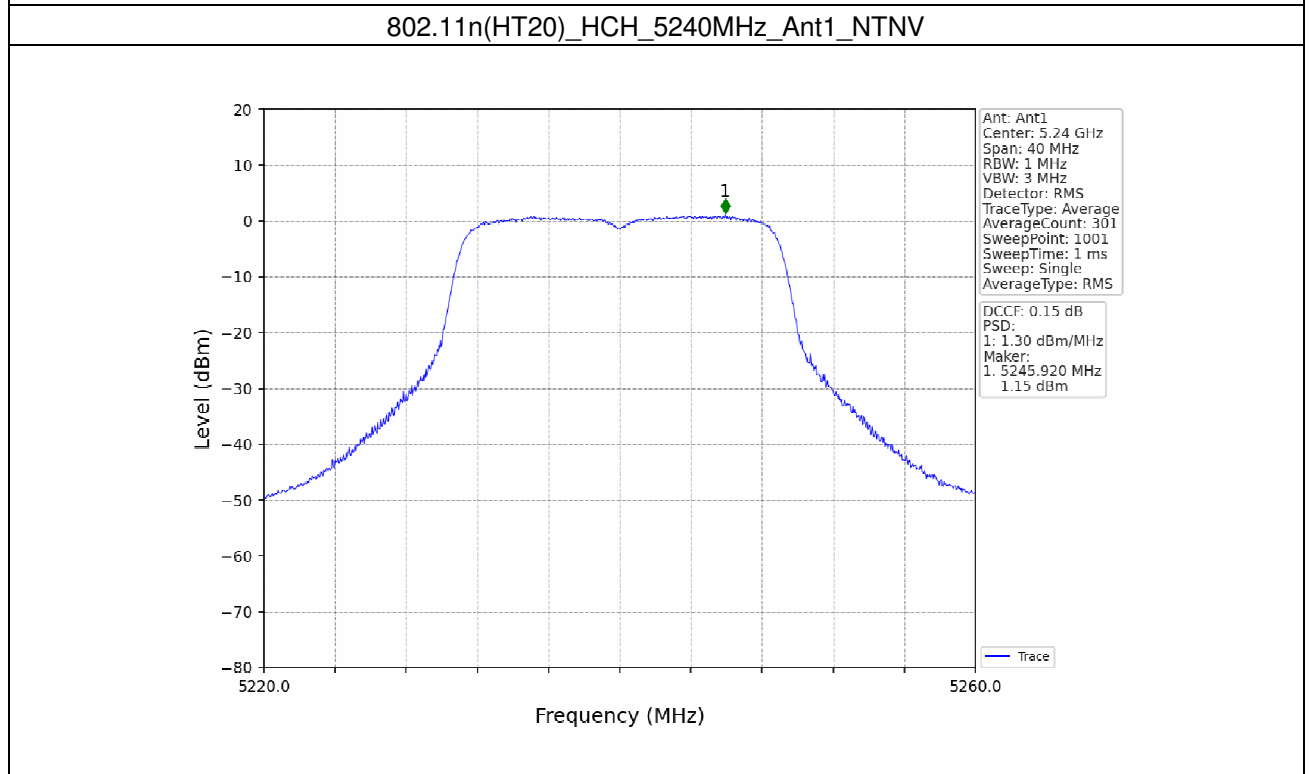
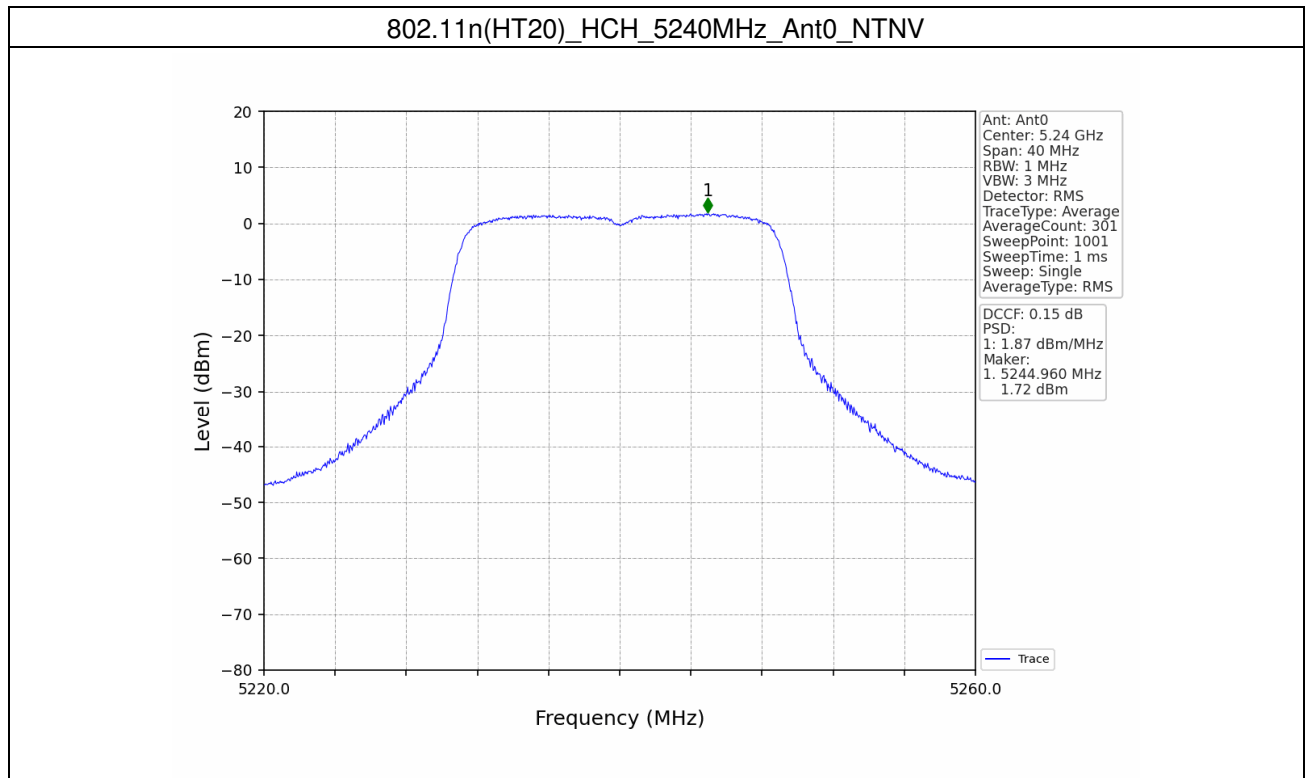


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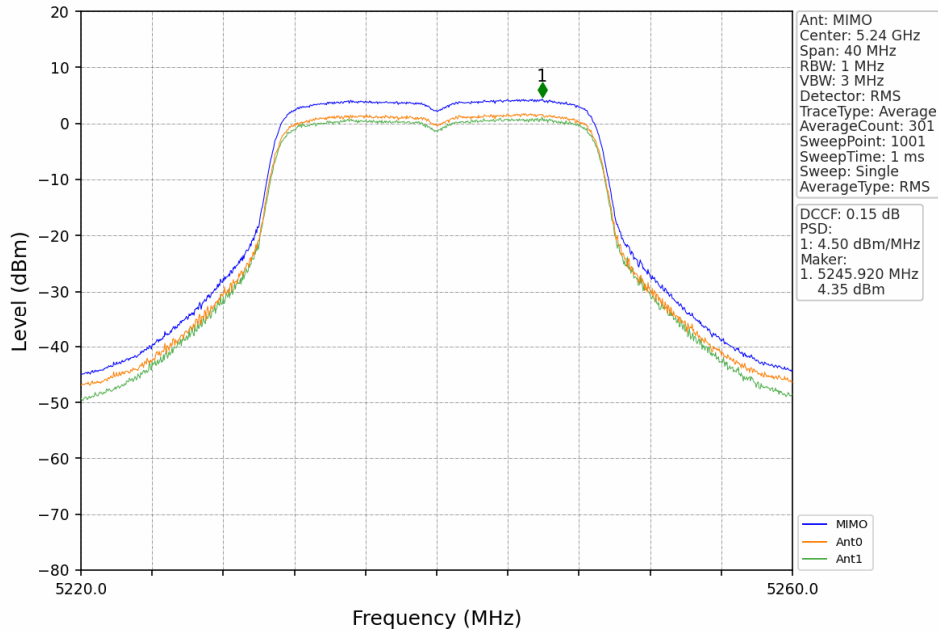
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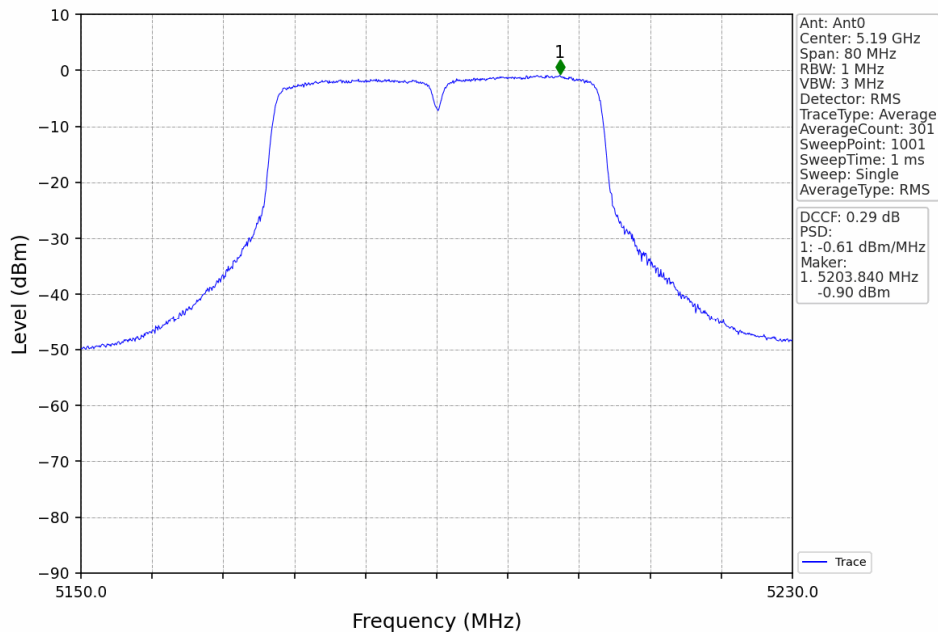
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802.11n(HT20)_HCH_5240MHz_MIMO_NTNV

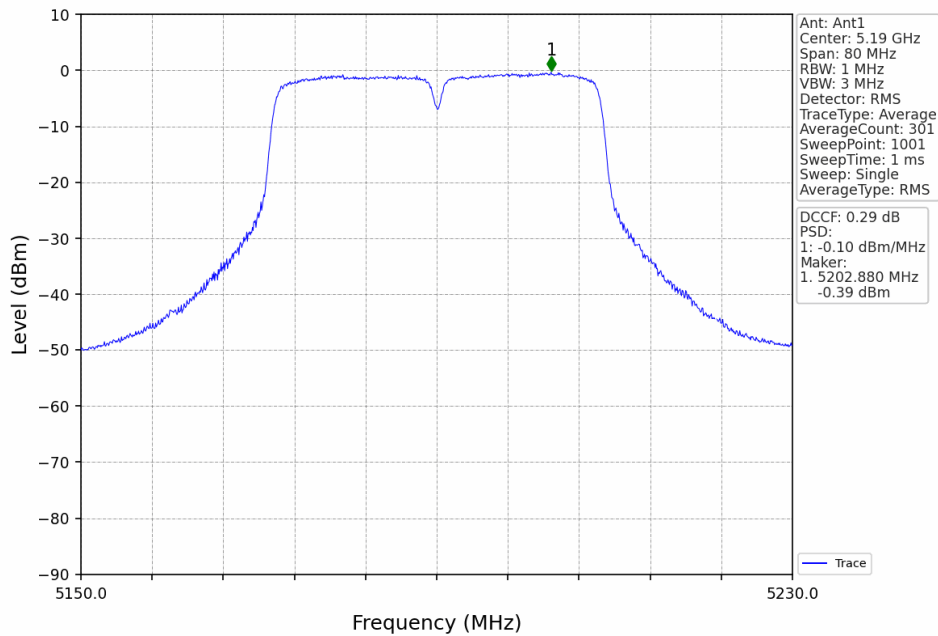


802.11n(HT40)_LCH_5190MHz_Ant0_NTNV

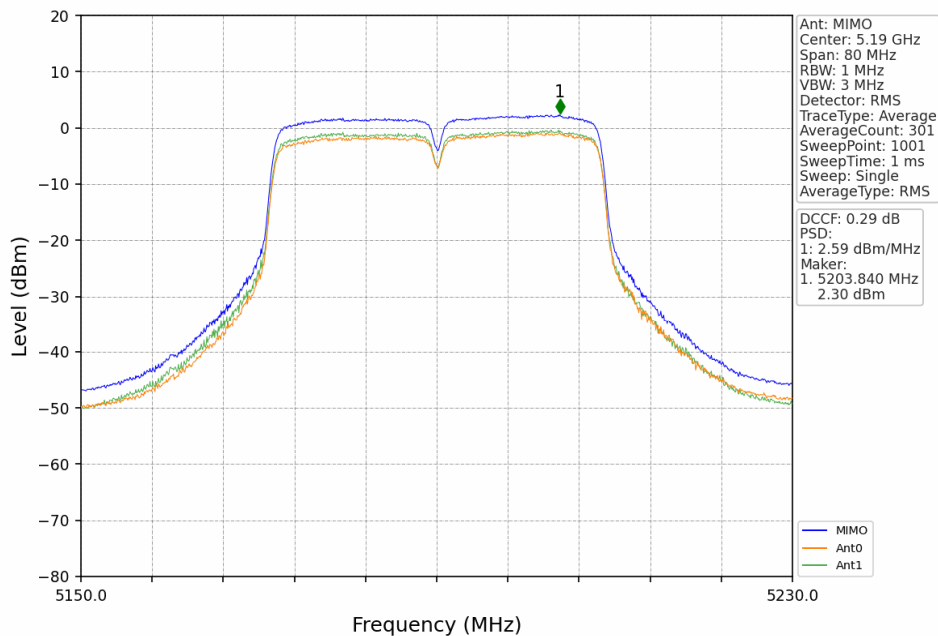


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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

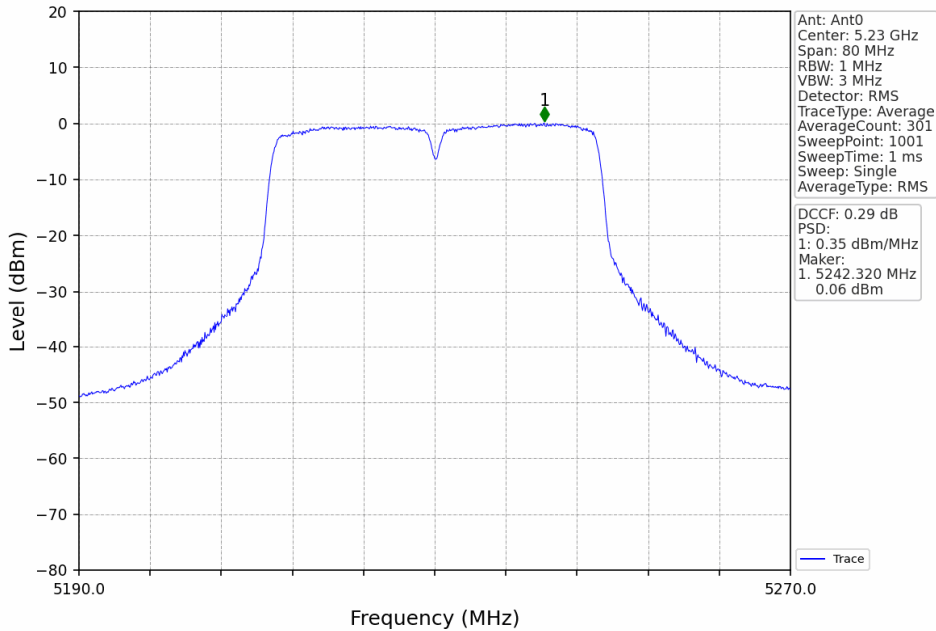


802.11n(HT40)_LCH_5190MHz_MIMO_NTNV

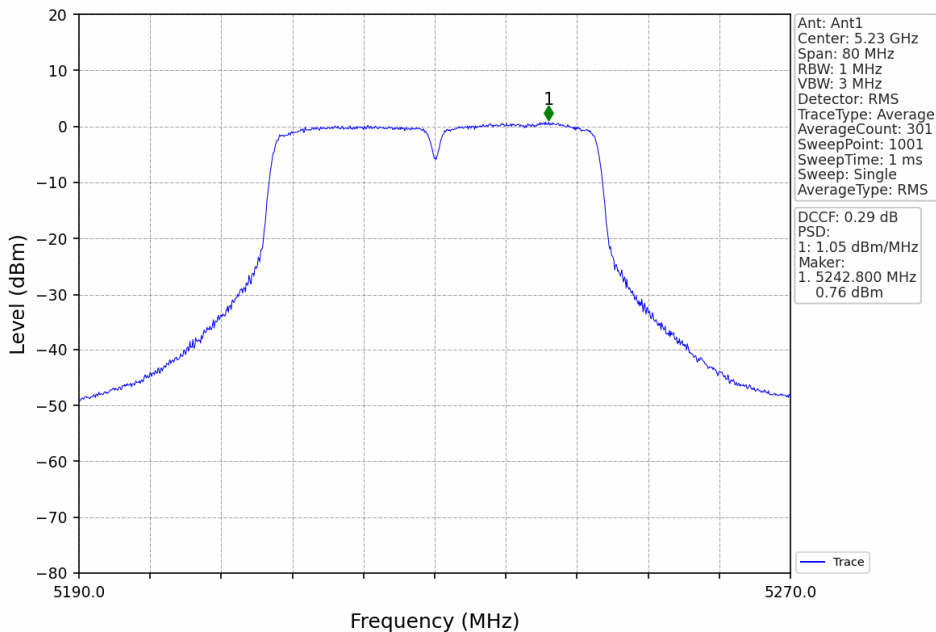


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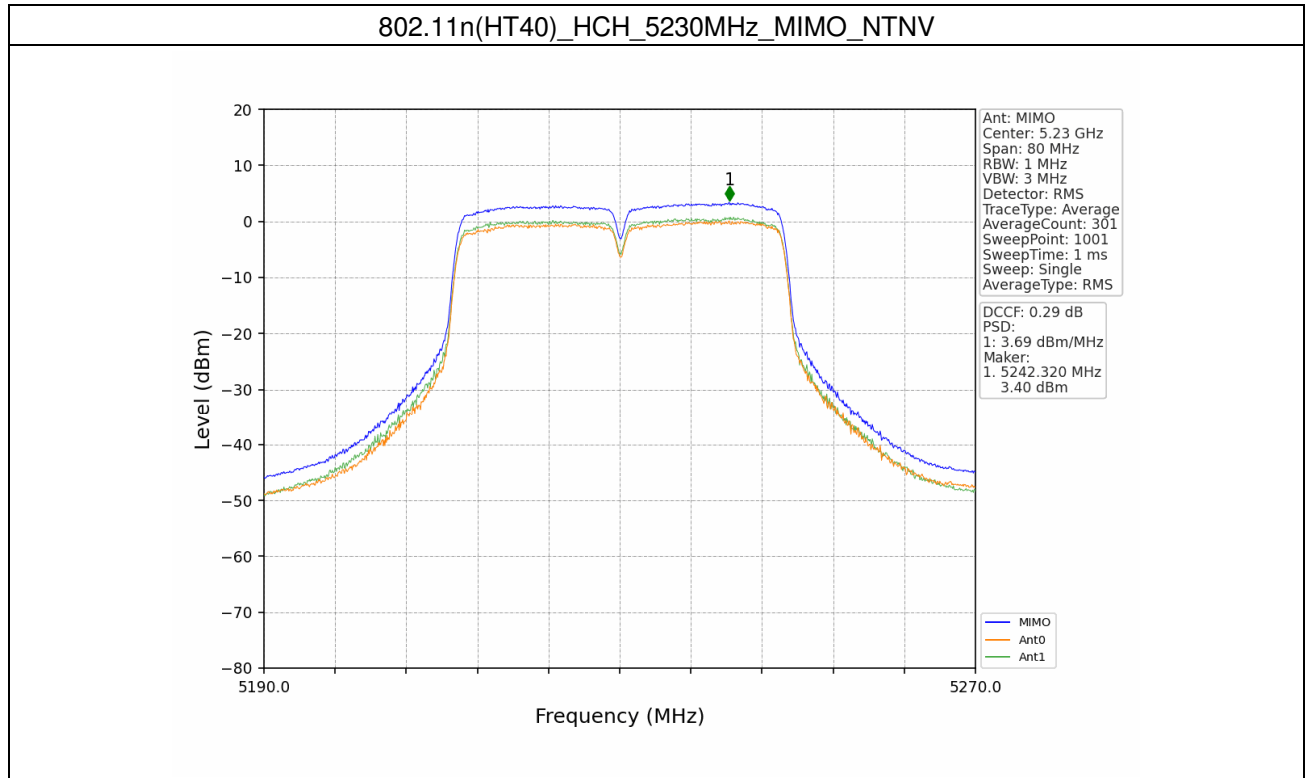
802.11n(HT40)_HCH_5230MHz_Ant0_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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4.2 PSD: U-NII-3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
802.11a	SISO	5745	8.64	8.19	/	<=30	Pass
		5785	8.87	8.78	/	<=30	Pass
		5825	7.54	7.47	/	<=30	Pass
802.11n (HT20)	MIMO	5745	7.99	8.38	11.17	<=28.99	Pass
		5785	7.92	8.48	10.98	<=28.99	Pass
		5825	7.06	7.17	9.93	<=28.99	Pass
802.11n (HT40)	MIMO	5755	5.34	5.52	8.14	<=28.99	Pass
		5795	5.27	5.76	8.39	<=28.99	Pass

Note1: Antenna Gain: Antenna 0&1=4dBi

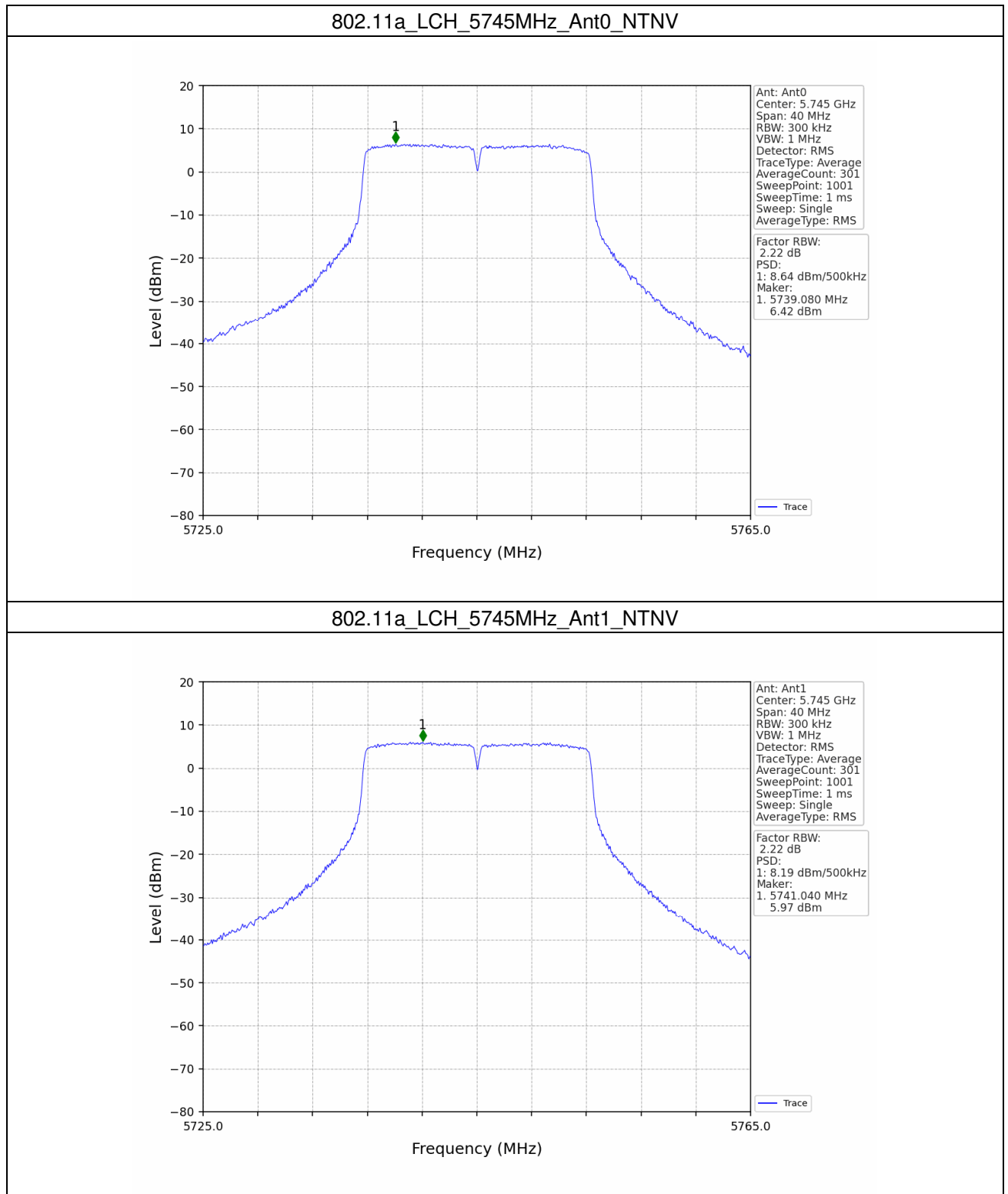
Note2: Array Gain= 10 log(N_{ANT}/N_{SS}) dB =3.01dBi

Note3: Directional Gain=G_{ANT}+ Array Gain = 4dBi+3.01dBi = 7.01dBi.



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 Guangzhou branch Testing Center EEC Laboratory. 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

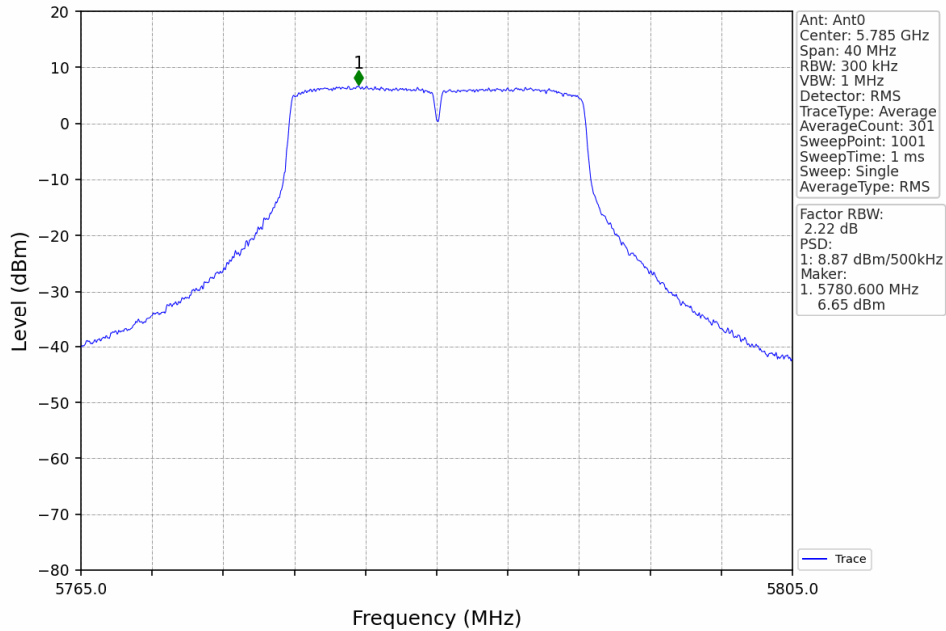
4.2.2 Test Graph



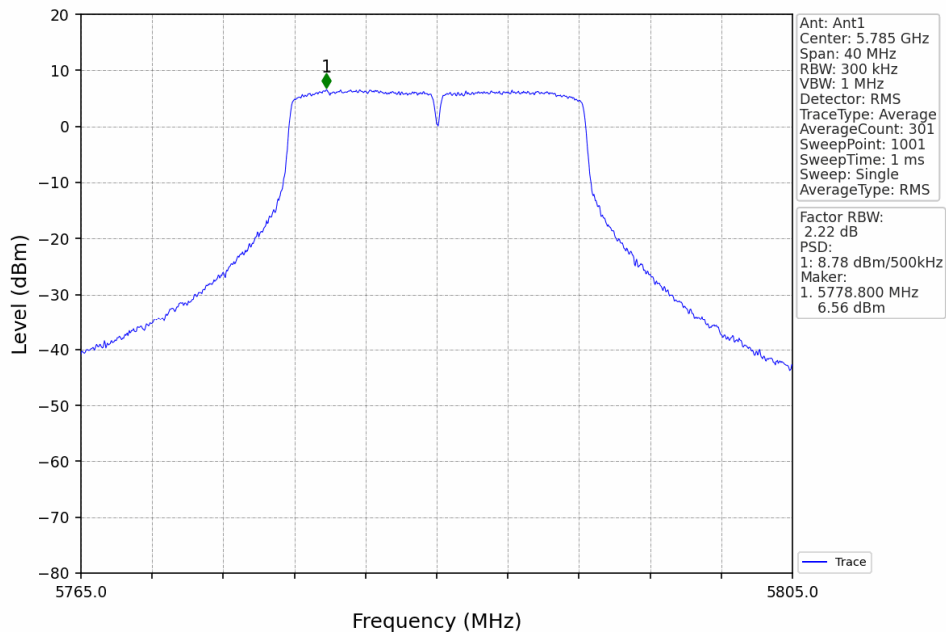
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802.11a_MCH_5785MHz_Ant0_NTNV



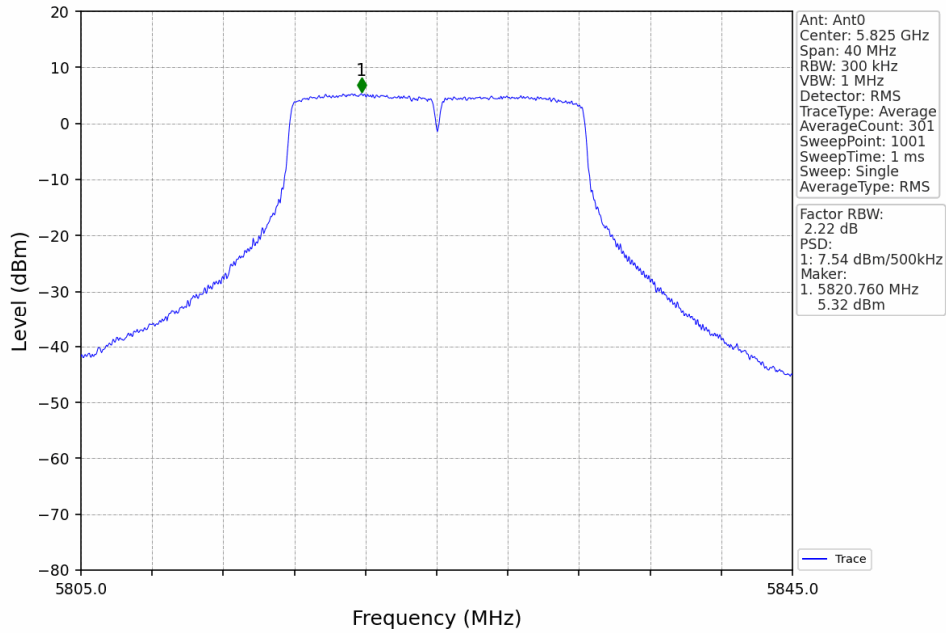
802.11a_MCH_5785MHz_Ant1_NTNV



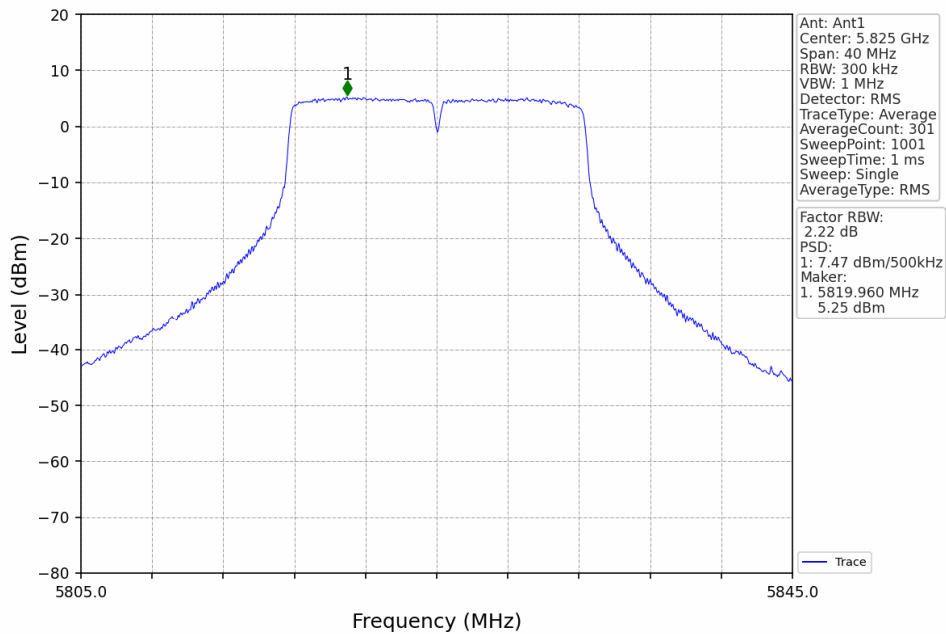
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802.11a_HCH_5825MHz_Ant0_NTNV



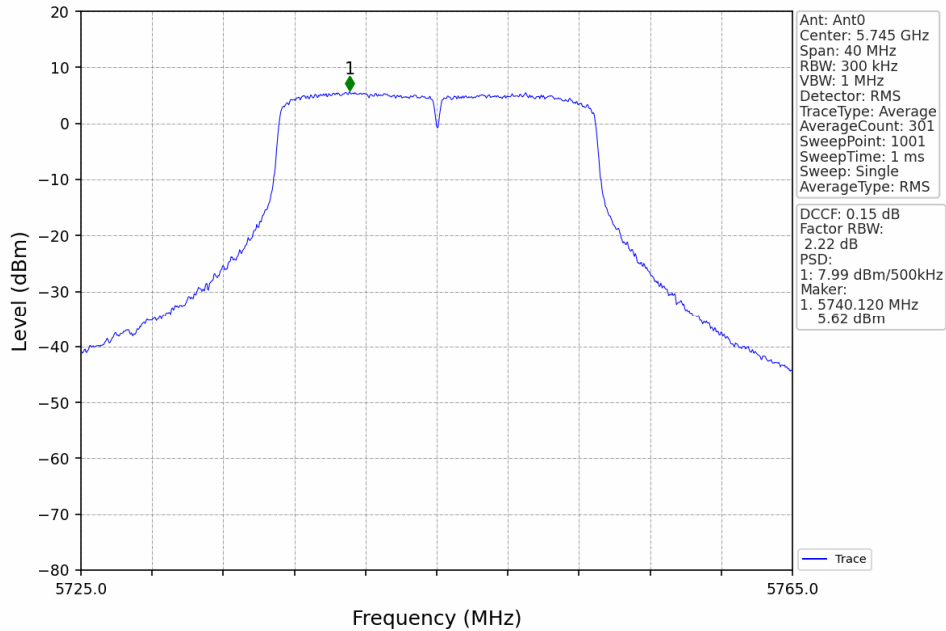
802.11a_HCH_5825MHz_Ant1_NTNV



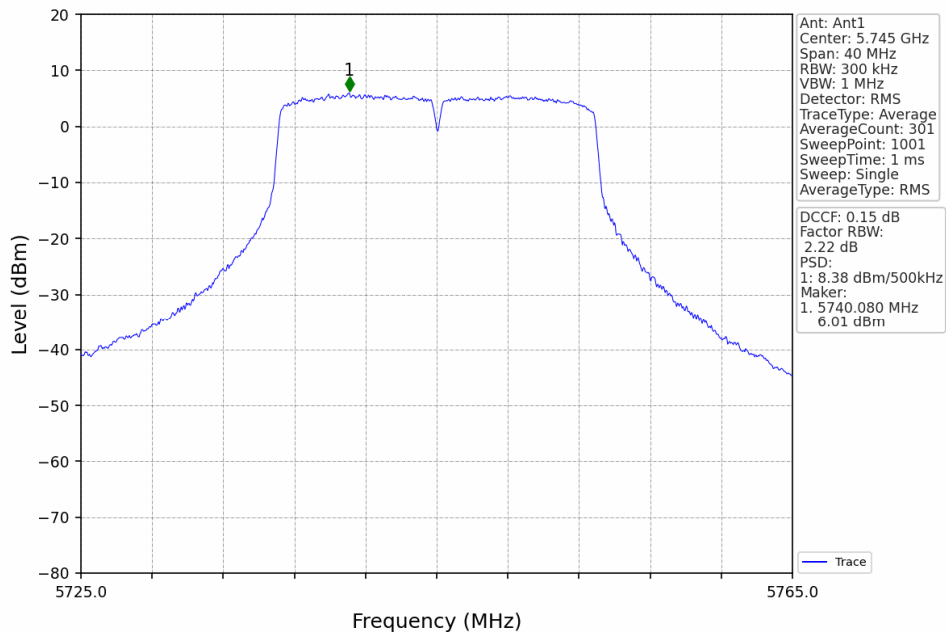
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802.11n(HT20)_LCH_5745MHz_Ant0_NTNV



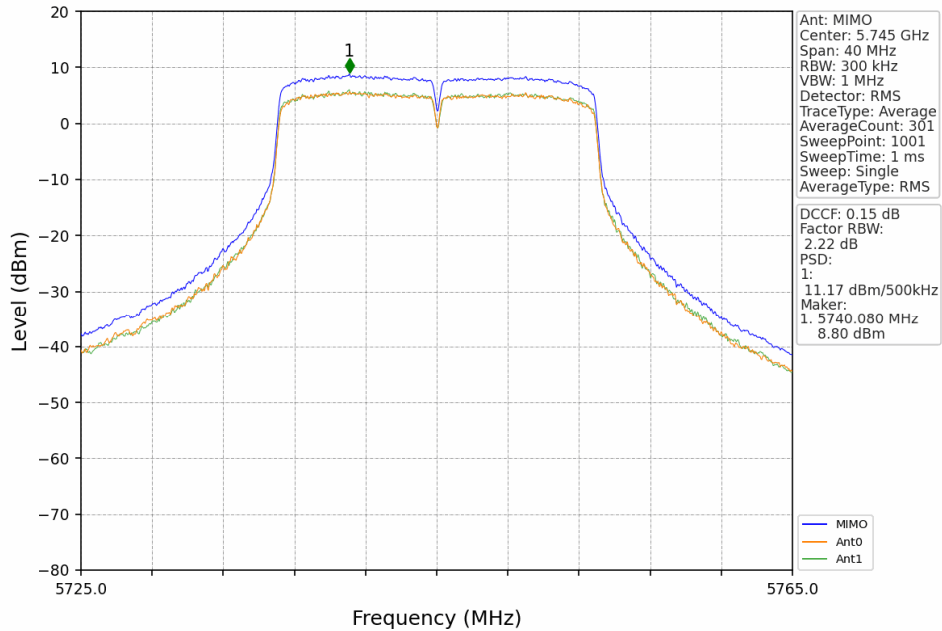
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



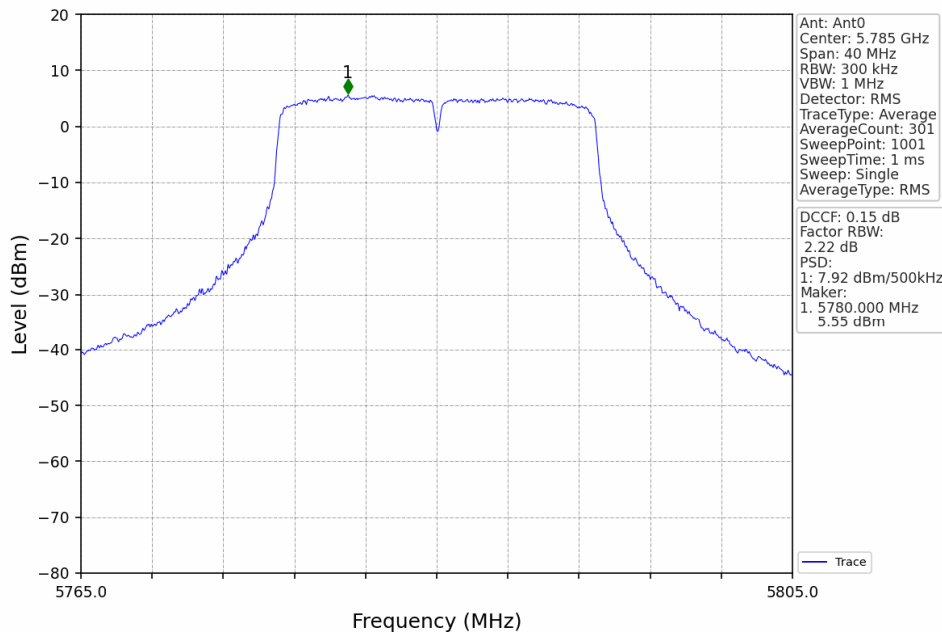
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802.11n(HT20)_LCH_5745MHz_MIMO_NTNV



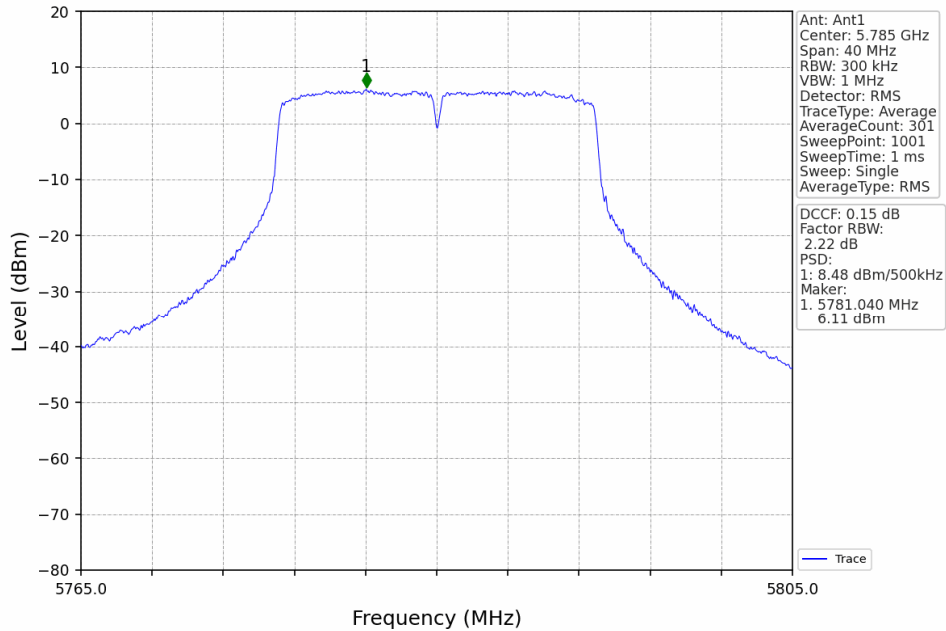
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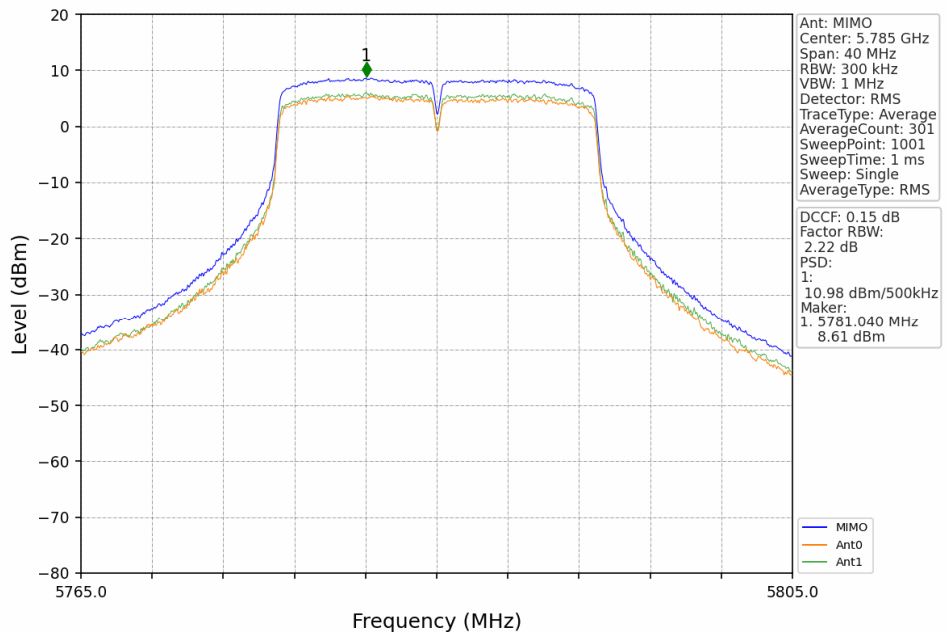
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV

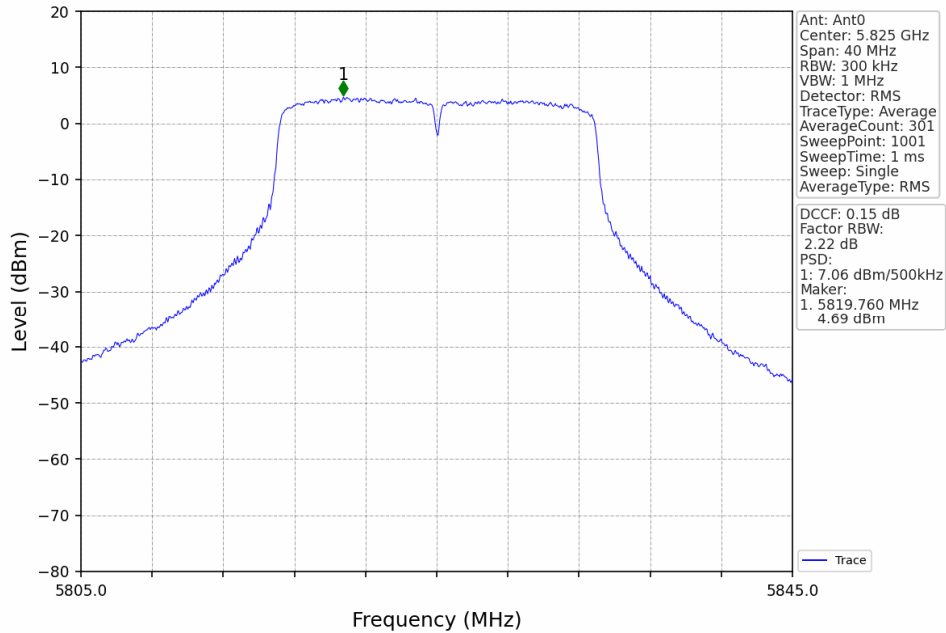


802.11n(HT20)_MCH_5785MHz_MIMO_NTNV

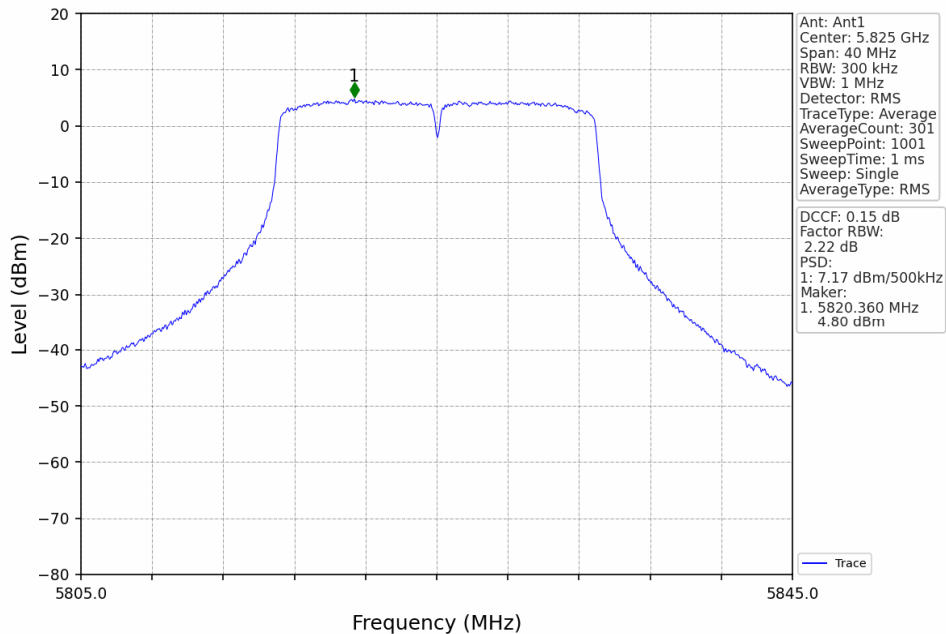


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802.11n(HT20)_HCH_5825MHz_Ant0_NTNV



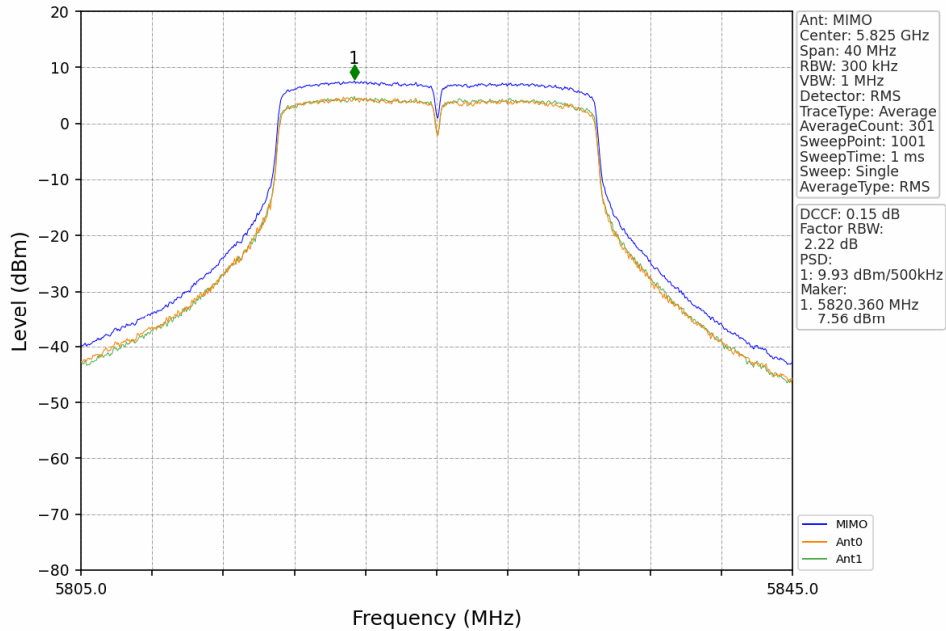
802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



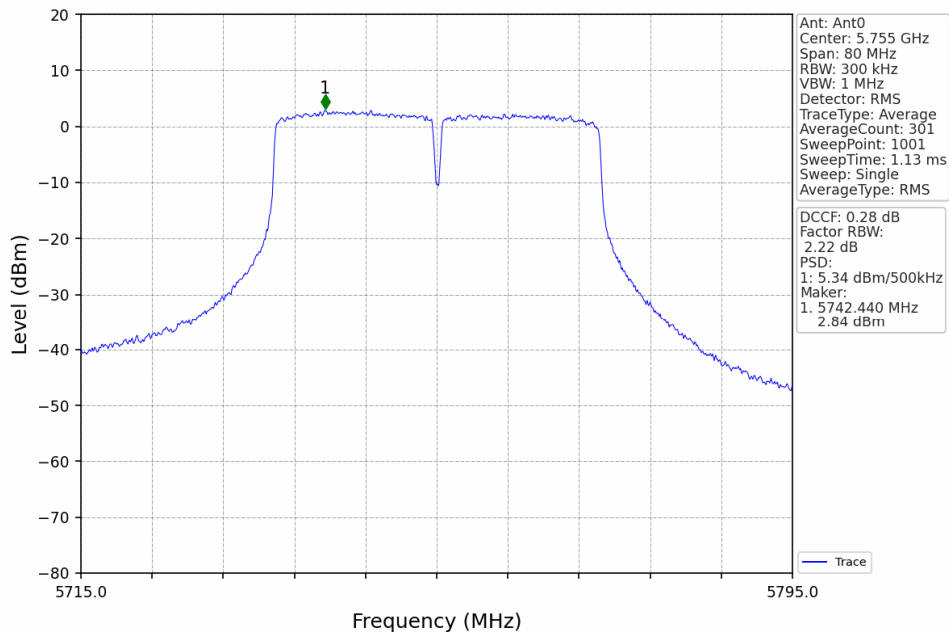
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802.11n(HT20)_HCH_5825MHz_MIMO_NTNV

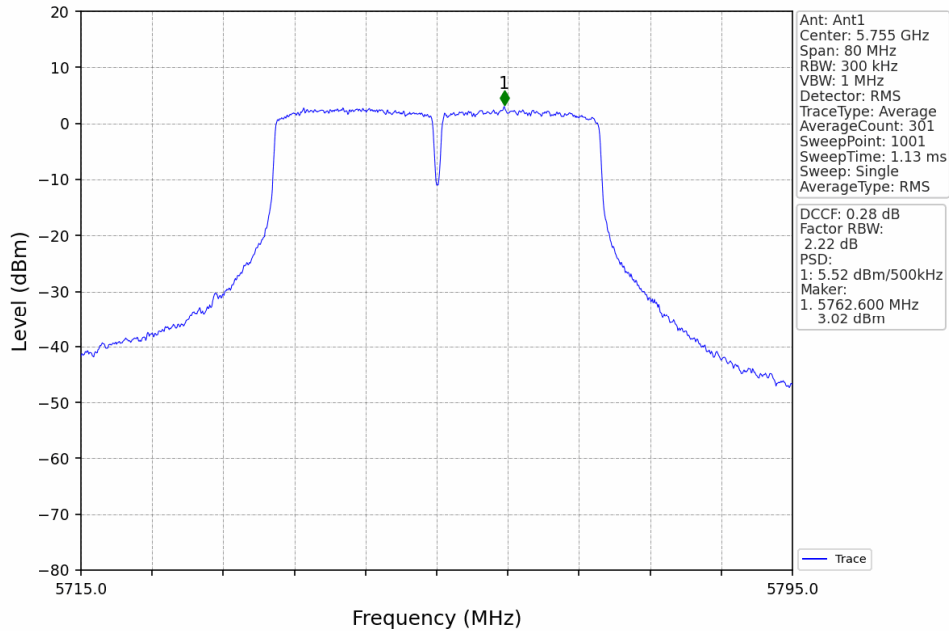


802.11n(HT40)_LCH_5755MHz_Ant0_NTNV

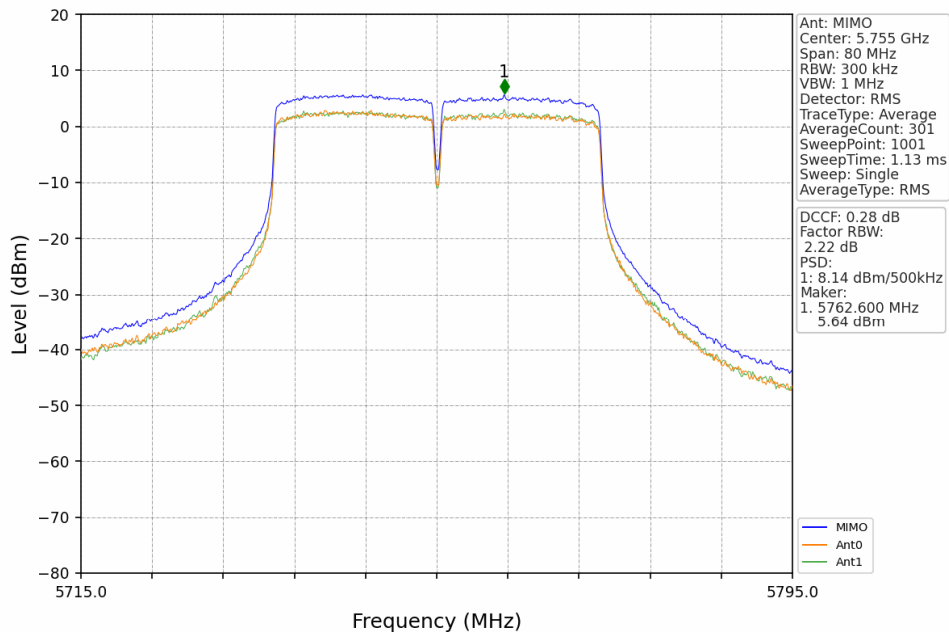


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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV

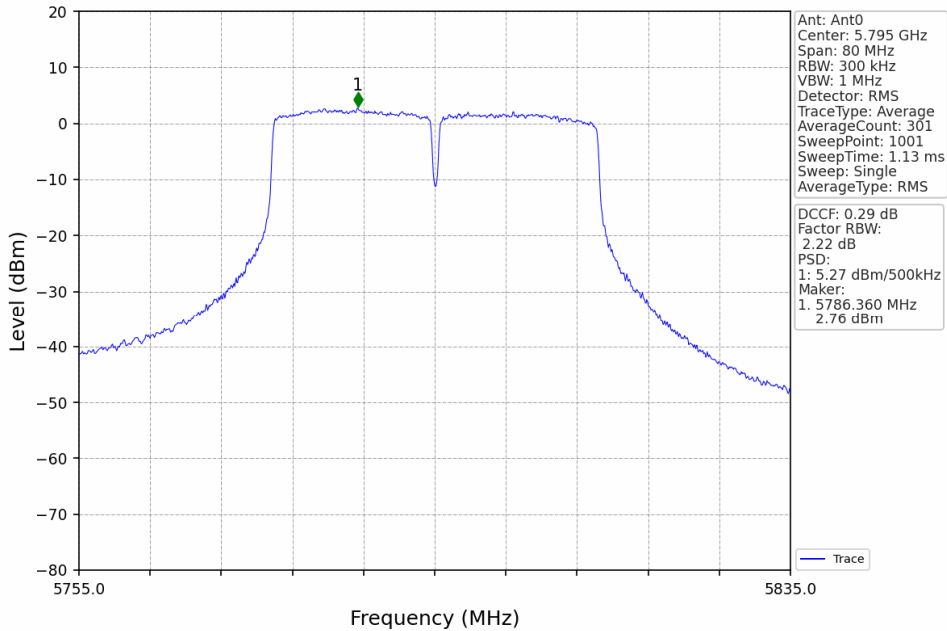


802.11n(HT40)_LCH_5755MHz_MIMO_NTNV

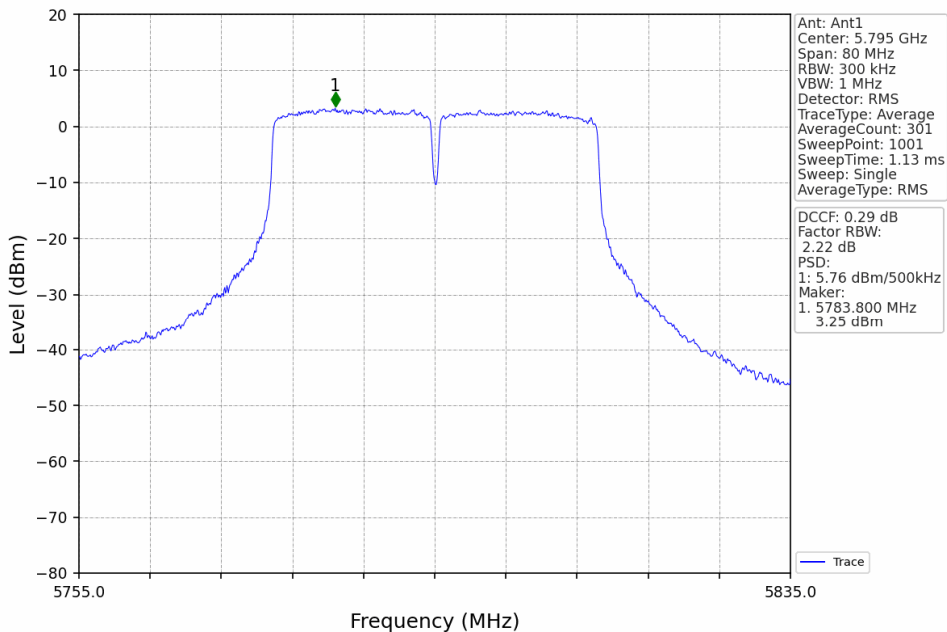


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802.11n(HT40)_HCH_5795MHz_Ant0_NTNV

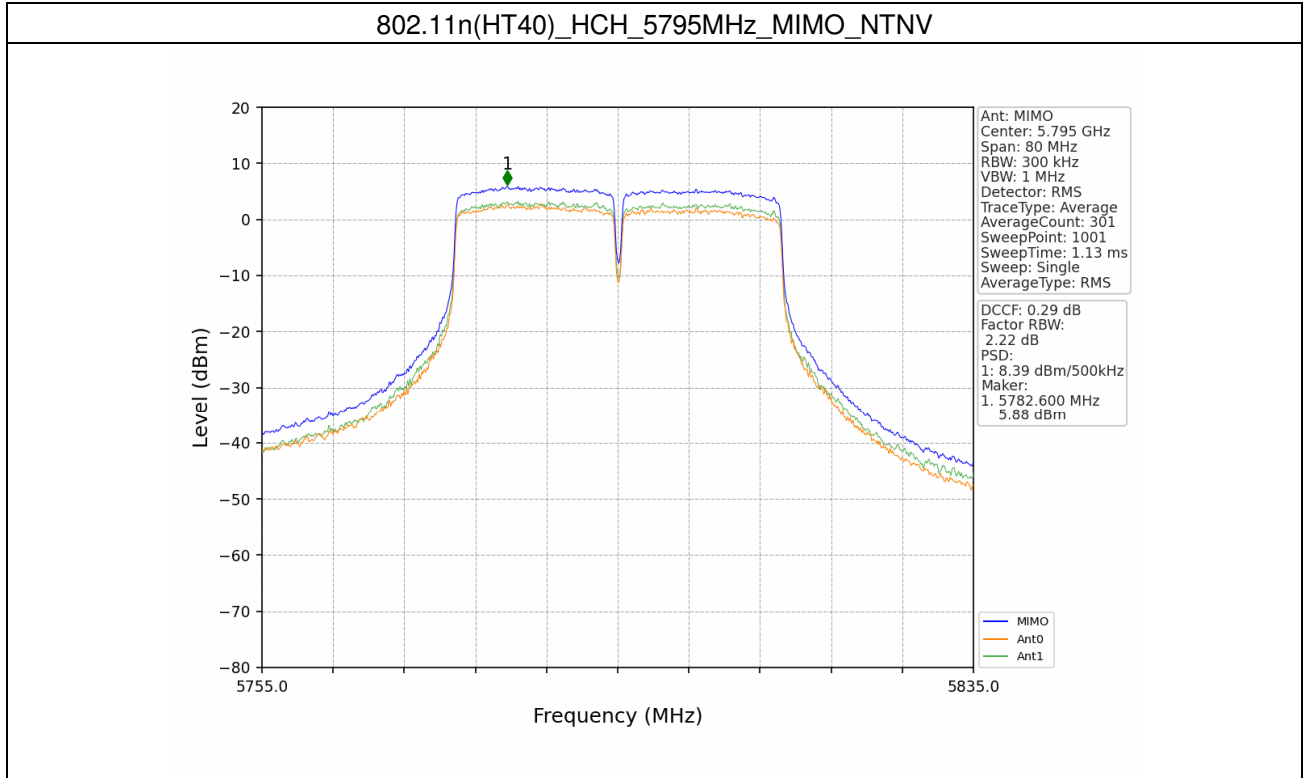


802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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802.11n(HT40)_HCH_5795MHz_MIMO_NTNV



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5. Frequency Stability

5.1 Ant0

5.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	10.2	5180.060	5150 to 5250	Pass
				12	5180.100	5150 to 5250	Pass
				13.8	5180.040	5150 to 5250	Pass
			-30	12	5180.100	5150 to 5250	Pass
				-20	12	5180.020	5150 to 5250
			-10	12	5180.100	5150 to 5250	Pass
			0	12	5180.080	5150 to 5250	Pass
			10	12	5180.060	5150 to 5250	Pass
			30	12	5180.080	5150 to 5250	Pass
			40	12	5180.040	5150 to 5250	Pass
		50	12	5180.020	5150 to 5250	Pass	
		5200	20	10.2	5199.980	5150 to 5250	Pass
				12	5200.060	5150 to 5250	Pass
				13.8	5199.980	5150 to 5250	Pass
			-30	12	5200.000	5150 to 5250	Pass
				-20	12	5200.020	5150 to 5250
			-10	12	5200.000	5150 to 5250	Pass
			0	12	5200.020	5150 to 5250	Pass
			10	12	5200.060	5150 to 5250	Pass
			30	12	5200.000	5150 to 5250	Pass
			40	12	5200.000	5150 to 5250	Pass
		50	12	5200.000	5150 to 5250	Pass	
		5240	20	10.2	5239.960	5150 to 5250	Pass
				12	5239.980	5150 to 5250	Pass
				13.8	5240.000	5150 to 5250	Pass
			-30	12	5240.040	5150 to 5250	Pass
				-20	12	5239.940	5150 to 5250
			-10	12	5240.000	5150 to 5250	Pass
			0	12	5240.020	5150 to 5250	Pass
			10	12	5239.980	5150 to 5250	Pass
30	12		5240.020	5150 to 5250	Pass		
40	12		5240.020	5150 to 5250	Pass		



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		5745	50	12	5240.000	5150 to 5250	Pass
			20	10.2	5745.000	5725 to 5850	Pass
				12	5744.940	5725 to 5850	Pass
				13.8	5744.960	5725 to 5850	Pass
				-30	12	5745.000	5725 to 5850
			-20	12	5744.960	5725 to 5850	Pass
			-10	12	5744.980	5725 to 5850	Pass
			0	12	5744.960	5725 to 5850	Pass
			10	12	5744.980	5725 to 5850	Pass
			30	12	5745.000	5725 to 5850	Pass
			40	12	5744.960	5725 to 5850	Pass
			50	12	5744.940	5725 to 5850	Pass
		5785	20	10.2	5784.980	5725 to 5850	Pass
				12	5784.940	5725 to 5850	Pass
				13.8	5785.000	5725 to 5850	Pass
			-30	12	5784.940	5725 to 5850	Pass
			-20	12	5784.960	5725 to 5850	Pass
			-10	12	5784.980	5725 to 5850	Pass
			0	12	5784.960	5725 to 5850	Pass
			10	12	5784.960	5725 to 5850	Pass
			30	12	5784.980	5725 to 5850	Pass
			40	12	5785.060	5725 to 5850	Pass
			50	12	5784.960	5725 to 5850	Pass
			5825	20	10.2	5824.960	5725 to 5850
		12			5824.980	5725 to 5850	Pass
		13.8			5824.960	5725 to 5850	Pass
		-30		12	5824.980	5725 to 5850	Pass
		-20		12	5824.960	5725 to 5850	Pass
		-10		12	5824.980	5725 to 5850	Pass
		0		12	5825.020	5725 to 5850	Pass
		10		12	5824.980	5725 to 5850	Pass
		30		12	5824.980	5725 to 5850	Pass
		40		12	5825.000	5725 to 5850	Pass
50	12	5824.920		5725 to 5850	Pass		
802.11n (HT20)	MIMO	5180		10.2	5180.060	5150 to 5250	Pass
			20	12	5180.060	5150 to 5250	Pass
				13.8	5180.060	5150 to 5250	Pass
				-30	12	5180.080	5150 to 5250
			-20	12	5180.080	5150 to 5250	Pass
			-10	12	5180.060	5150 to 5250	Pass
			0	12	5180.060	5150 to 5250	Pass
			10	12	5180.060	5150 to 5250	Pass



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		5200	30	12	5180.060	5150 to 5250	Pass
			40	12	5180.080	5150 to 5250	Pass
			50	12	5180.060	5150 to 5250	Pass
		5200	20	10.2	5200.060	5150 to 5250	Pass
				12	5200.060	5150 to 5250	Pass
				13.8	5200.060	5150 to 5250	Pass
			-30	12	5200.100	5150 to 5250	Pass
			-20	12	5200.060	5150 to 5250	Pass
			-10	12	5200.060	5150 to 5250	Pass
			0	12	5200.080	5150 to 5250	Pass
			10	12	5200.060	5150 to 5250	Pass
			30	12	5200.040	5150 to 5250	Pass
			40	12	5200.080	5150 to 5250	Pass
			50	12	5200.080	5150 to 5250	Pass
			5240	20	10.2	5240.100	5150 to 5250
		12			5240.060	5150 to 5250	Pass
		13.8			5240.080	5150 to 5250	Pass
		-30		12	5240.060	5150 to 5250	Pass
		-20		12	5240.060	5150 to 5250	Pass
		-10		12	5240.120	5150 to 5250	Pass
		0		12	5240.040	5150 to 5250	Pass
		10		12	5240.080	5150 to 5250	Pass
		30		12	5240.100	5150 to 5250	Pass
		40		12	5240.080	5150 to 5250	Pass
		50		12	5240.040	5150 to 5250	Pass
		5745		20	10.2	5745.020	5725 to 5850
			12		5745.060	5725 to 5850	Pass
			13.8		5745.060	5725 to 5850	Pass
			-30	12	5745.020	5725 to 5850	Pass
			-20	12	5745.020	5725 to 5850	Pass
			-10	12	5745.040	5725 to 5850	Pass
			0	12	5745.020	5725 to 5850	Pass
			10	12	5745.080	5725 to 5850	Pass
			30	12	5745.020	5725 to 5850	Pass
			40	12	5745.060	5725 to 5850	Pass
			50	12	5745.080	5725 to 5850	Pass
			5785	20	10.2	5785.080	5725 to 5850
		12			5785.040	5725 to 5850	Pass
		13.8			5785.060	5725 to 5850	Pass
		-30		12	5785.040	5725 to 5850	Pass
-20	12	5785.080		5725 to 5850	Pass		
-10	12	5785.000		5725 to 5850	Pass		



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			0	12	5785.020	5725 to 5850	Pass
			10	12	5785.060	5725 to 5850	Pass
			30	12	5785.020	5725 to 5850	Pass
			40	12	5785.040	5725 to 5850	Pass
			50	12	5785.040	5725 to 5850	Pass
		5825	20	10.2	5825.020	5725 to 5850	Pass
				12	5825.020	5725 to 5850	Pass
				13.8	5825.020	5725 to 5850	Pass
			-30	12	5825.020	5725 to 5850	Pass
			-20	12	5825.000	5725 to 5850	Pass
			-10	12	5825.020	5725 to 5850	Pass
			0	12	5825.020	5725 to 5850	Pass
			10	12	5824.960	5725 to 5850	Pass
			30	12	5824.980	5725 to 5850	Pass
			40	12	5825.020	5725 to 5850	Pass
50	12	5825.020	5725 to 5850	Pass			
802.11n (HT40)	MIMO	5190	20	10.2	5190.160	5150 to 5250	Pass
				12	5190.120	5150 to 5250	Pass
				13.8	5190.120	5150 to 5250	Pass
			-30	12	5190.120	5150 to 5250	Pass
			-20	12	5190.160	5150 to 5250	Pass
			-10	12	5190.200	5150 to 5250	Pass
			0	12	5190.160	5150 to 5250	Pass
			10	12	5190.160	5150 to 5250	Pass
			30	12	5190.160	5150 to 5250	Pass
		40	12	5190.120	5150 to 5250	Pass	
		50	12	5190.160	5150 to 5250	Pass	
		5230	20	10.2	5230.120	5150 to 5250	Pass
				12	5230.120	5150 to 5250	Pass
				13.8	5230.120	5150 to 5250	Pass
			-30	12	5230.160	5150 to 5250	Pass
			-20	12	5230.120	5150 to 5250	Pass
			-10	12	5230.160	5150 to 5250	Pass
			0	12	5230.160	5150 to 5250	Pass
			10	12	5230.080	5150 to 5250	Pass
			30	12	5230.160	5150 to 5250	Pass
		40	12	5230.160	5150 to 5250	Pass	
		50	12	5230.160	5150 to 5250	Pass	
		5755	20	10.2	5755.080	5725 to 5850	Pass
				12	5755.080	5725 to 5850	Pass
				13.8	5755.040	5725 to 5850	Pass
			-30	12	5755.040	5725 to 5850	Pass



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			-20	12	5755.080	5725 to 5850	Pass
			-10	12	5755.040	5725 to 5850	Pass
			0	12	5755.080	5725 to 5850	Pass
			10	12	5755.120	5725 to 5850	Pass
			30	12	5755.120	5725 to 5850	Pass
			40	12	5755.040	5725 to 5850	Pass
			50	12	5755.080	5725 to 5850	Pass
	5795	20	10.2	5795.000	5725 to 5850	Pass	
			12	5795.080	5725 to 5850	Pass	
			13.8	5795.040	5725 to 5850	Pass	
		-30	12	5795.080	5725 to 5850	Pass	
		-20	12	5795.080	5725 to 5850	Pass	
		-10	12	5795.080	5725 to 5850	Pass	
		0	12	5795.080	5725 to 5850	Pass	
		10	12	5795.040	5725 to 5850	Pass	
		30	12	5795.080	5725 to 5850	Pass	
		40	12	5795.000	5725 to 5850	Pass	
		50	12	5795.080	5725 to 5850	Pass	

- End of the Report -



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