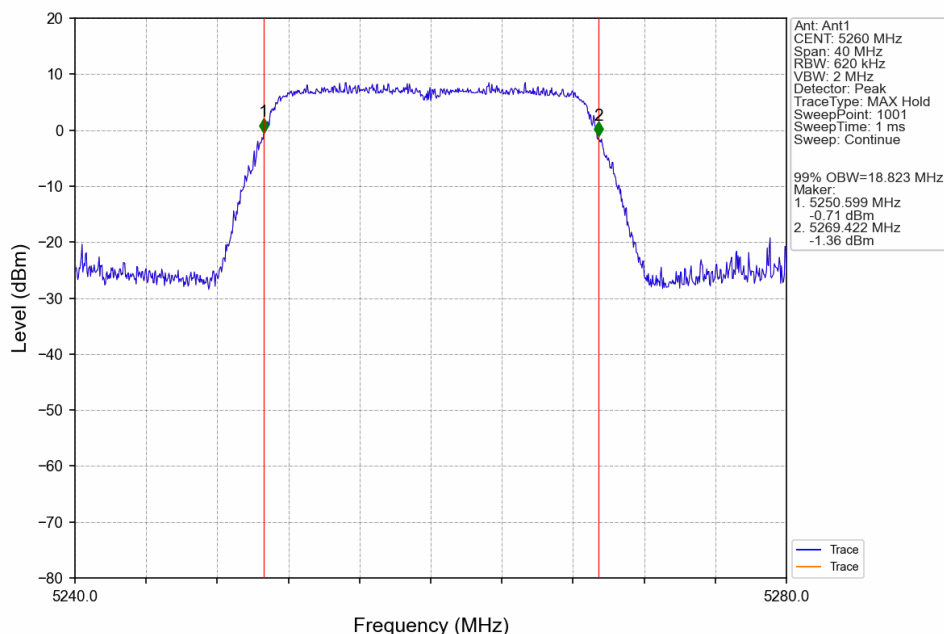
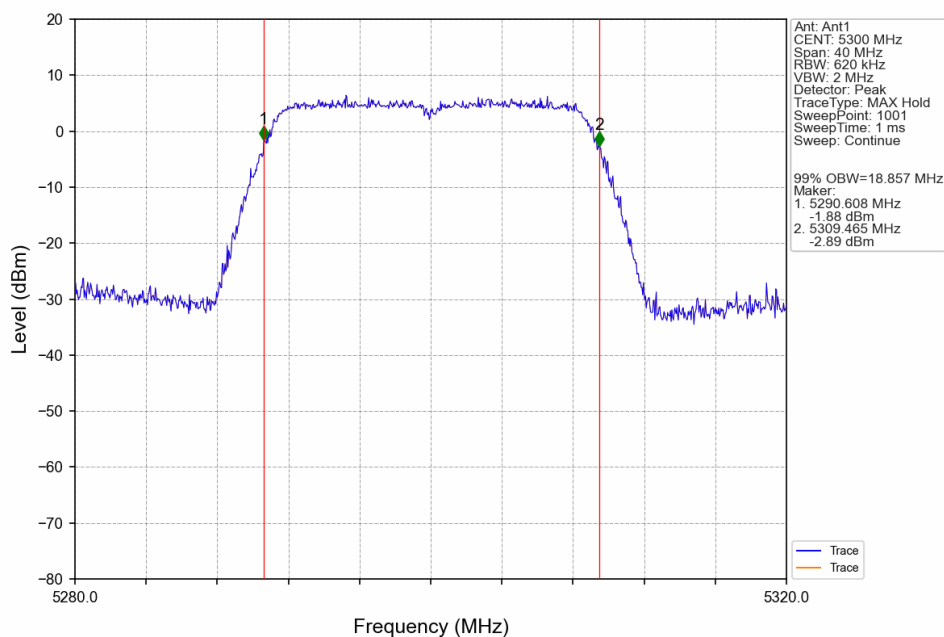


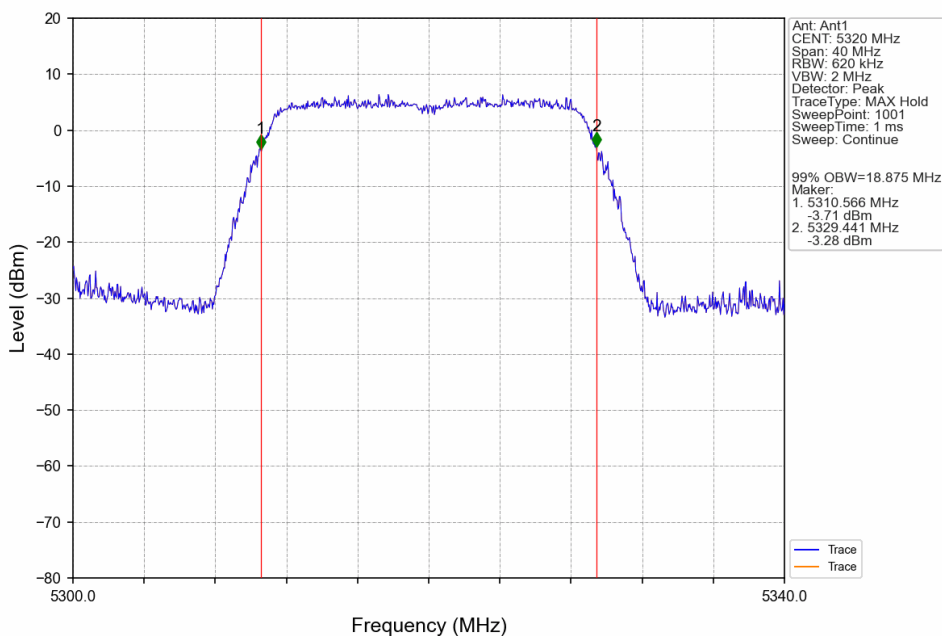
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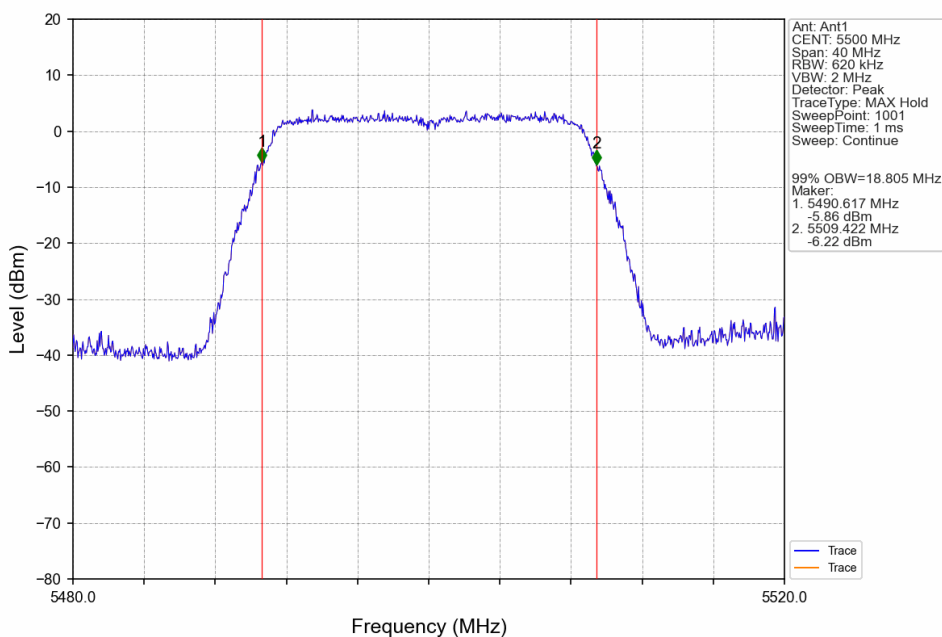
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802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



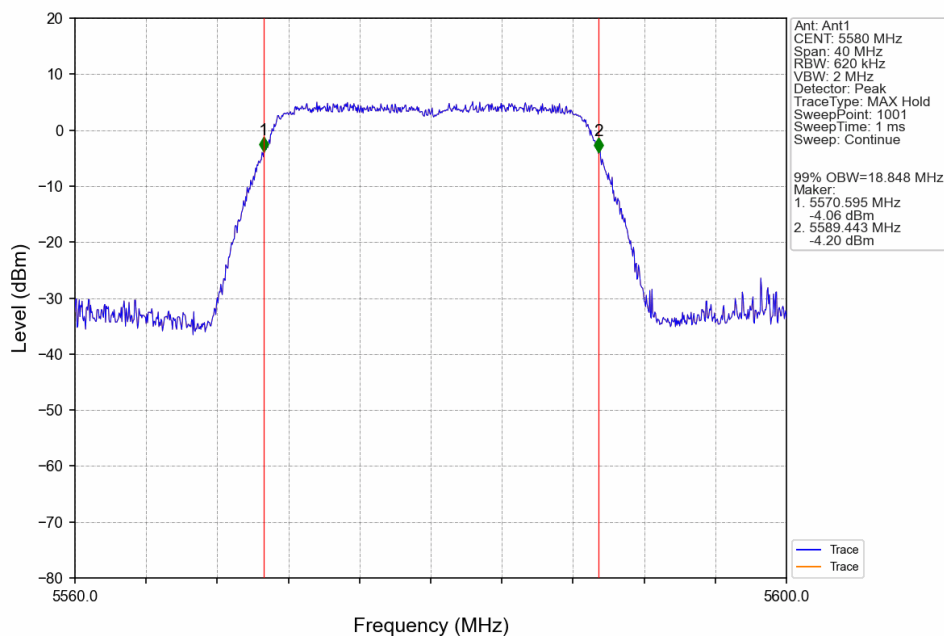
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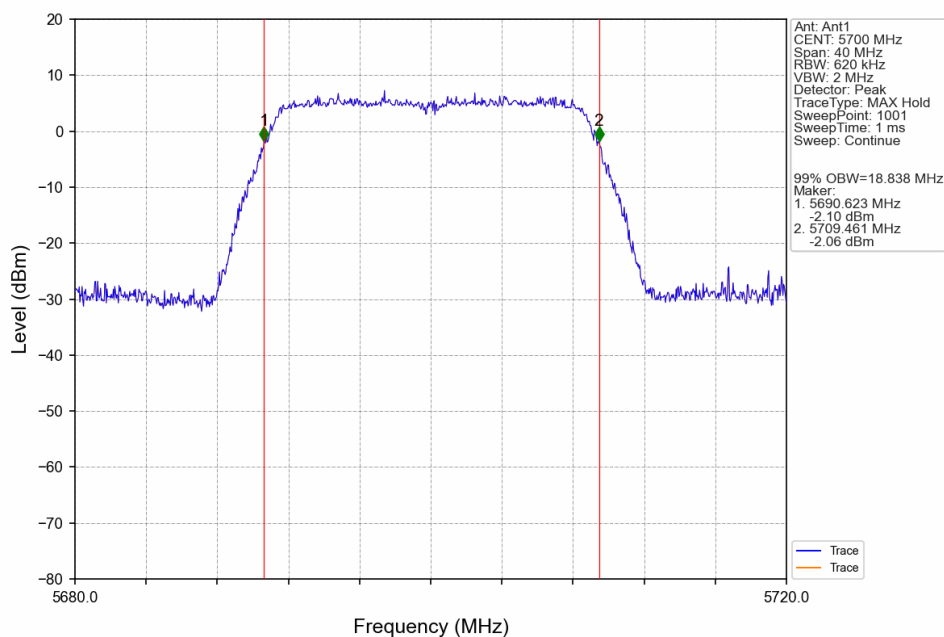
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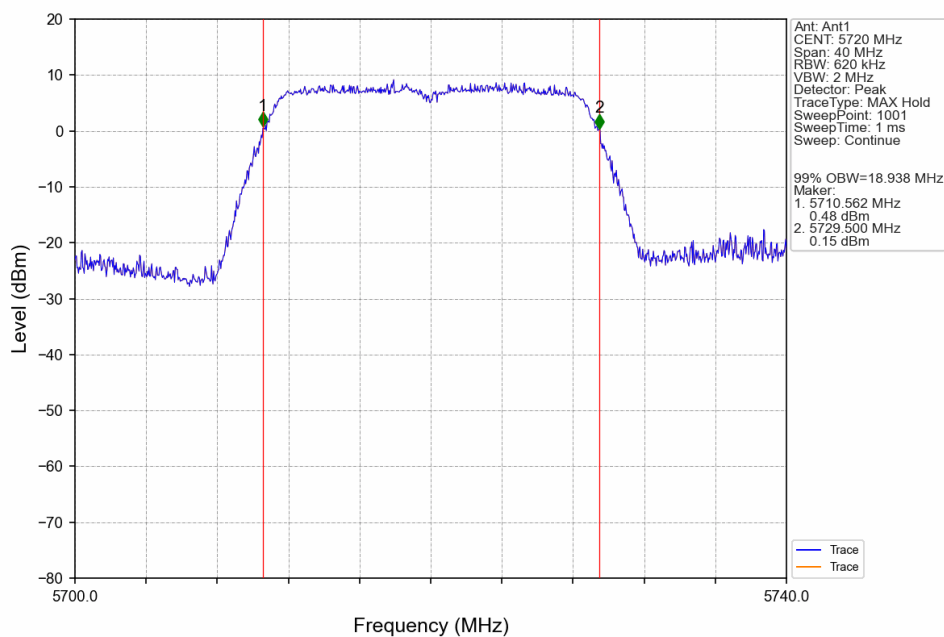
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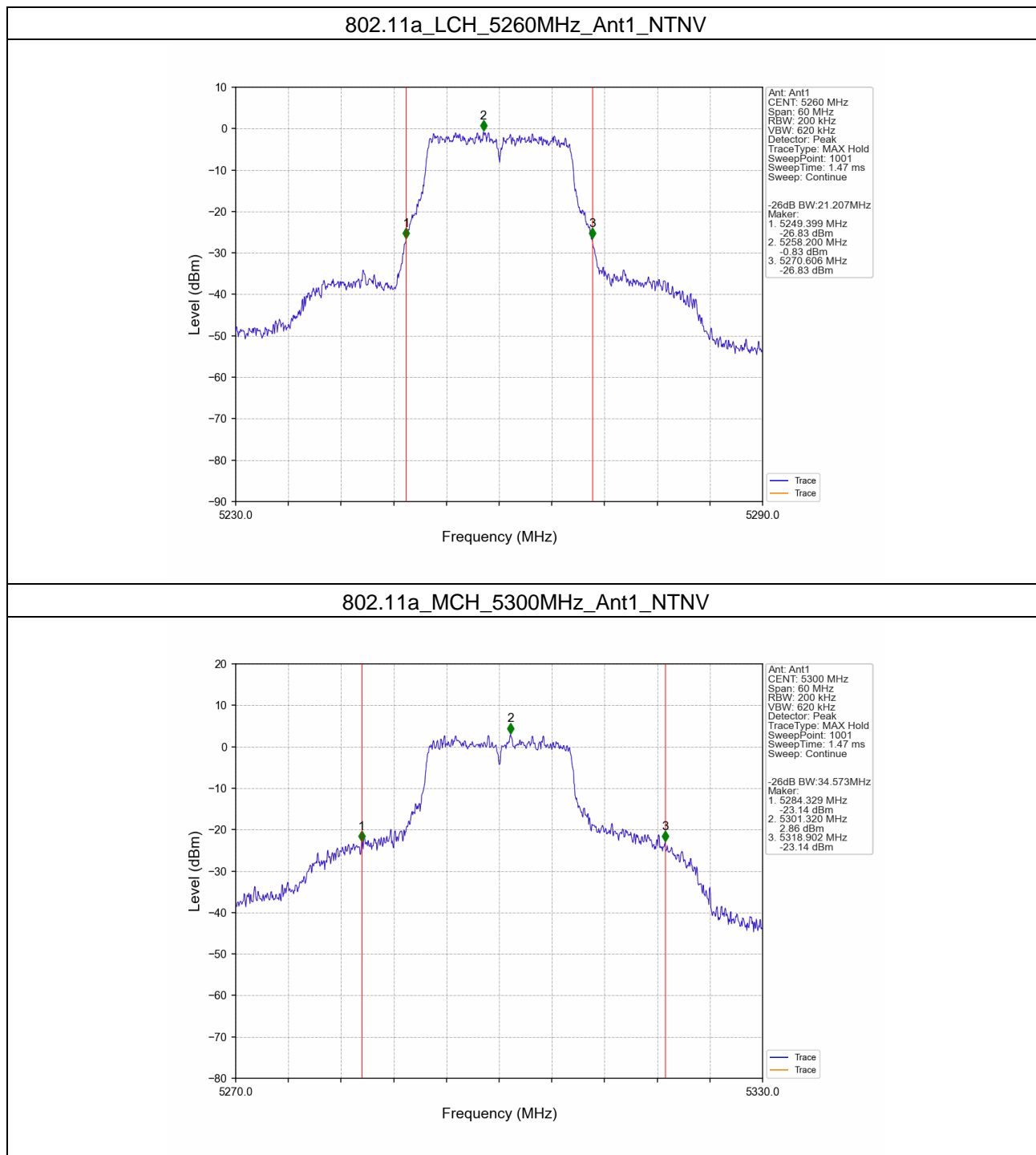
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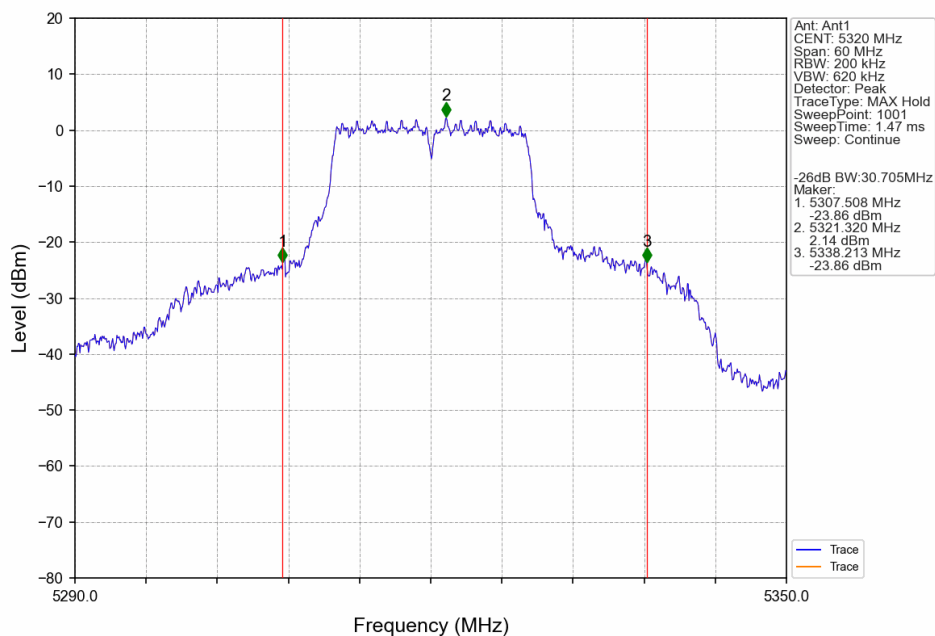
802.11ac(VHT20)_HCH_5720MHz_Ant1_NTNV



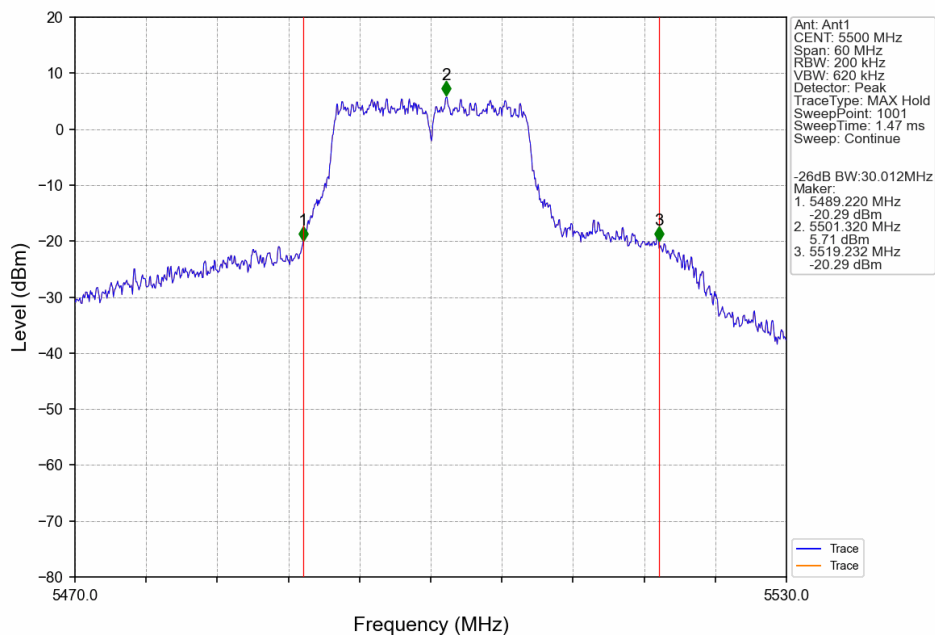
2.2.2 26dB BW



802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant1_NTNV



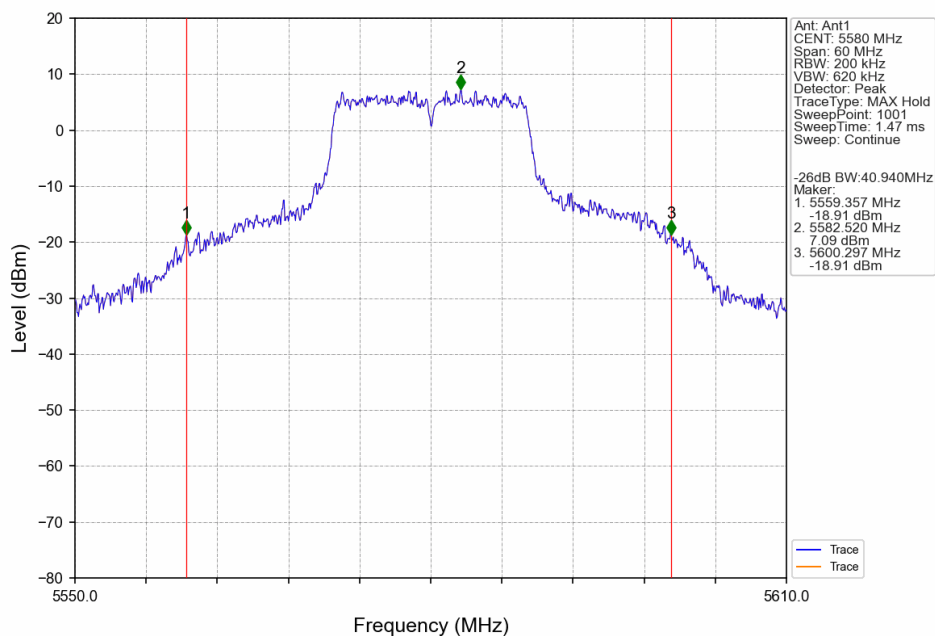
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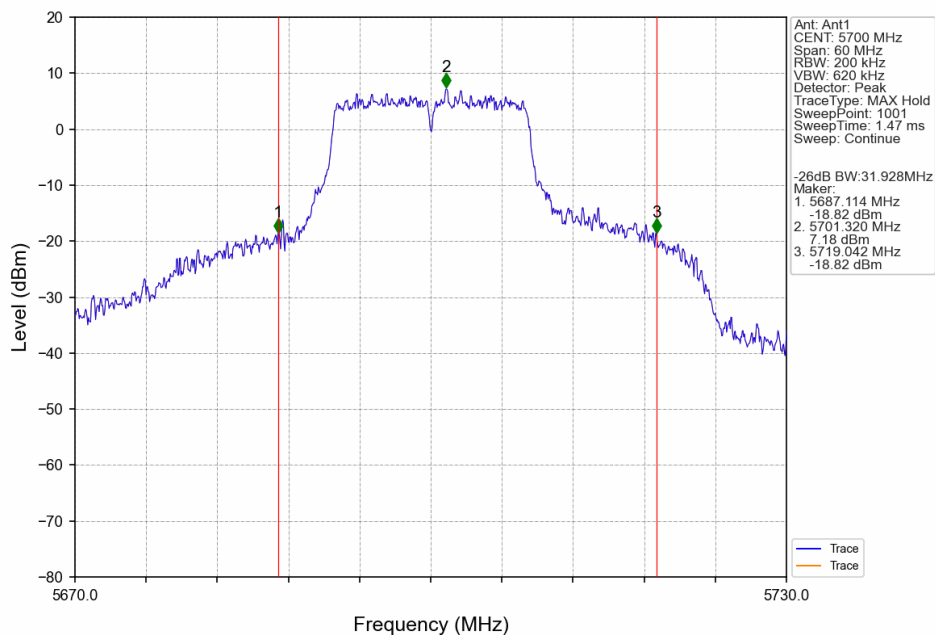
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802.11a_MCH_5580MHz_Ant1_NTNV



802.11a_HCH_5700MHz_Ant1_NTNV



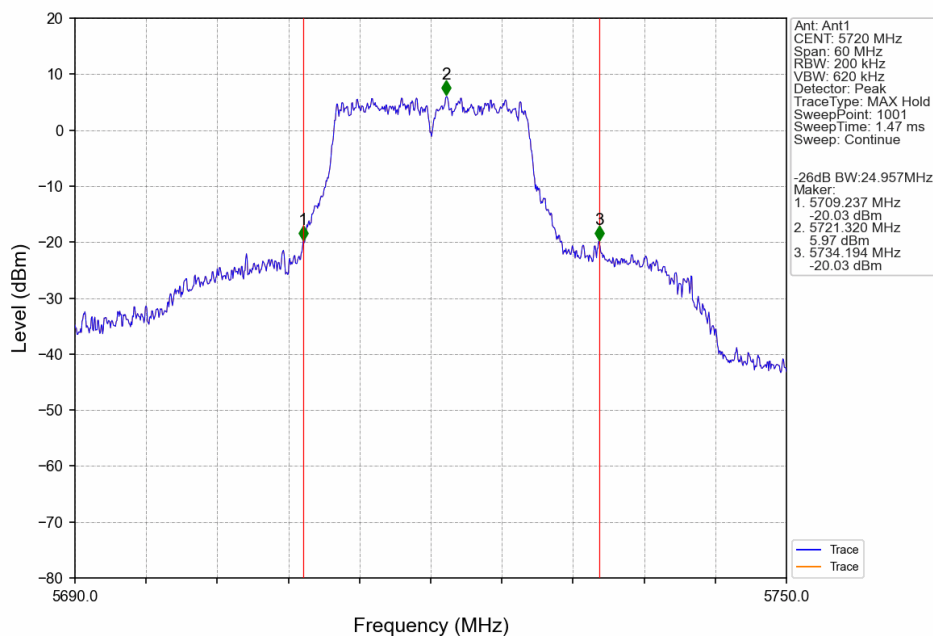
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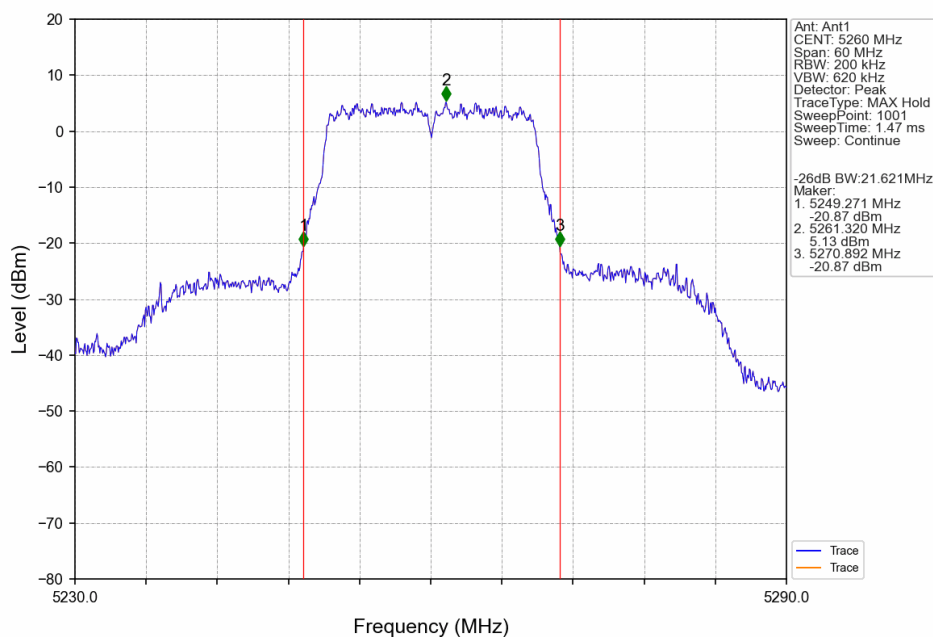
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802.11a_HCH_5720MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



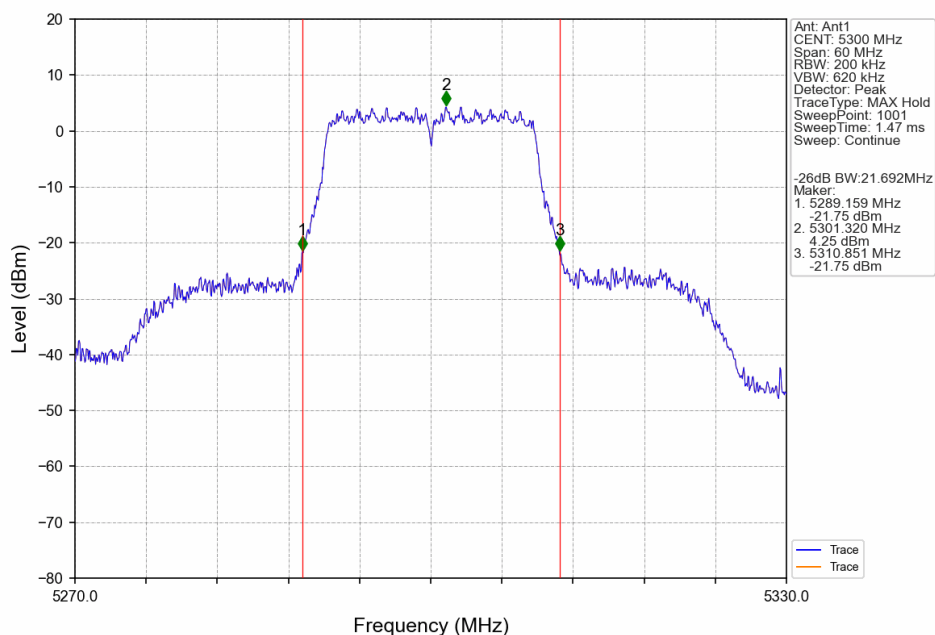
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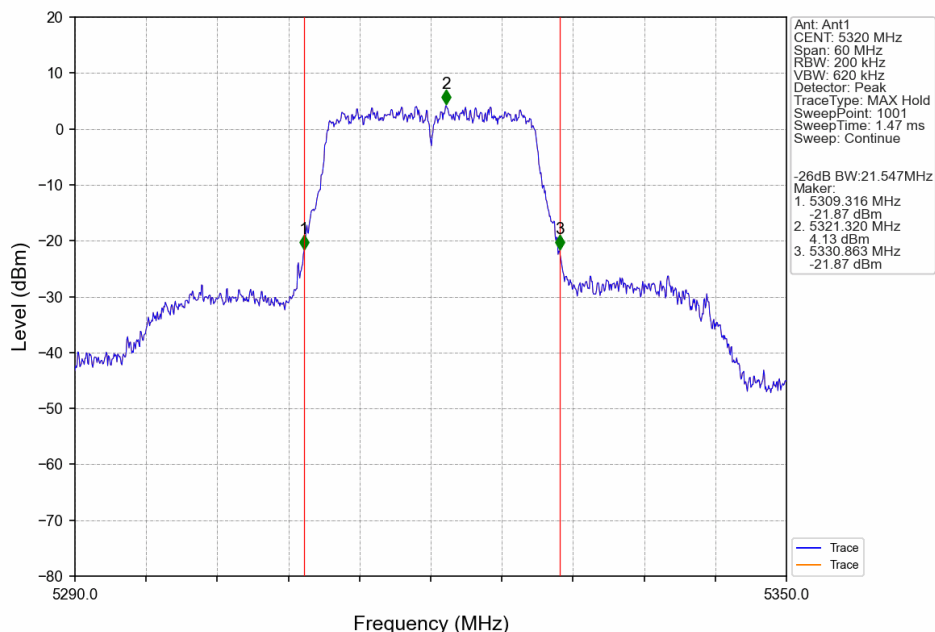
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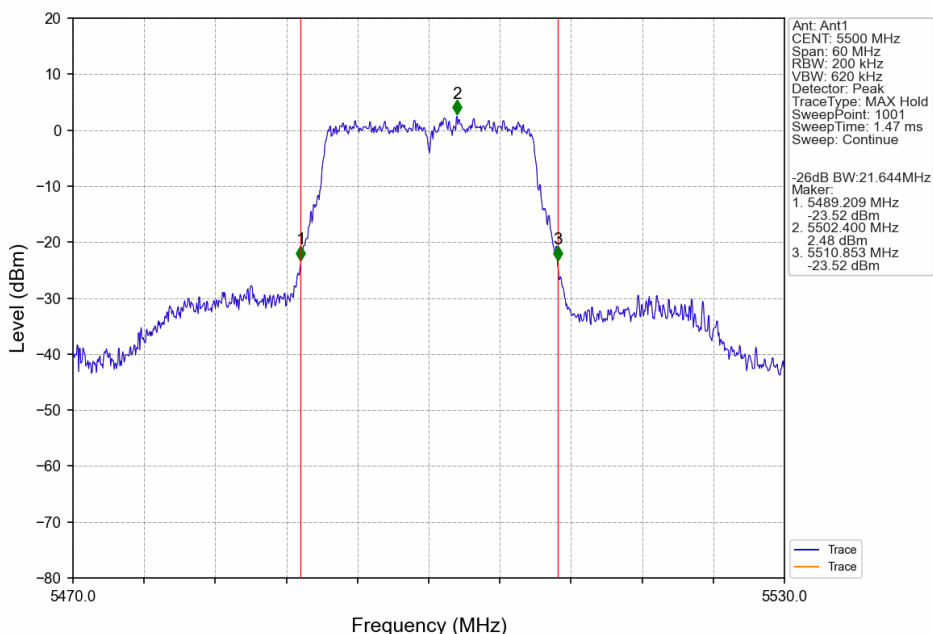
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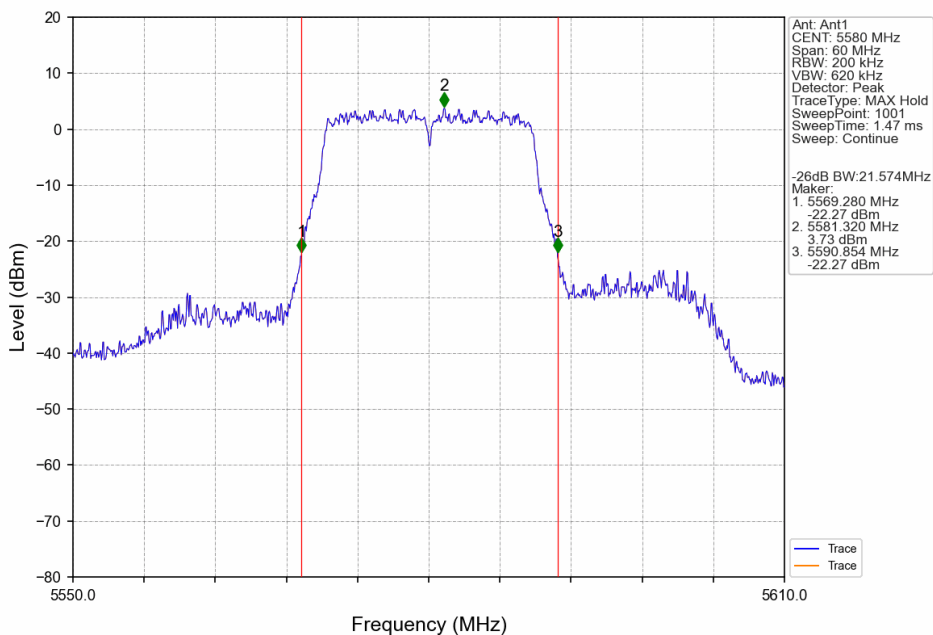
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



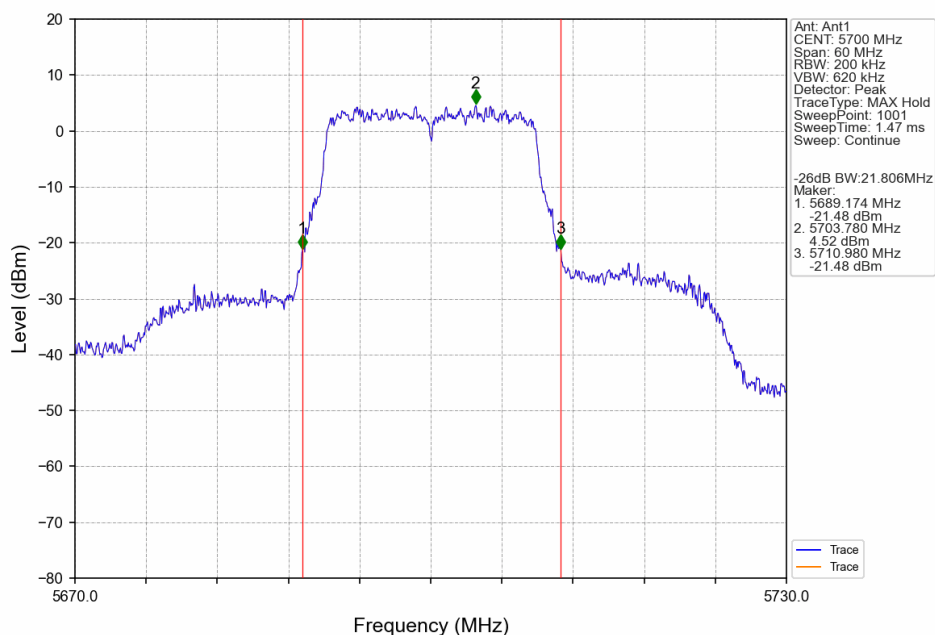
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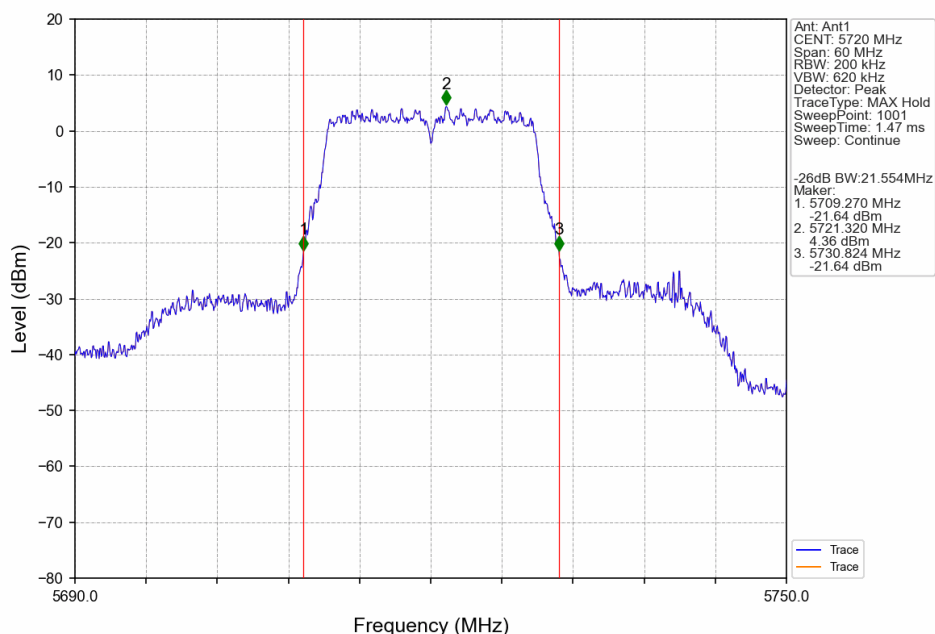
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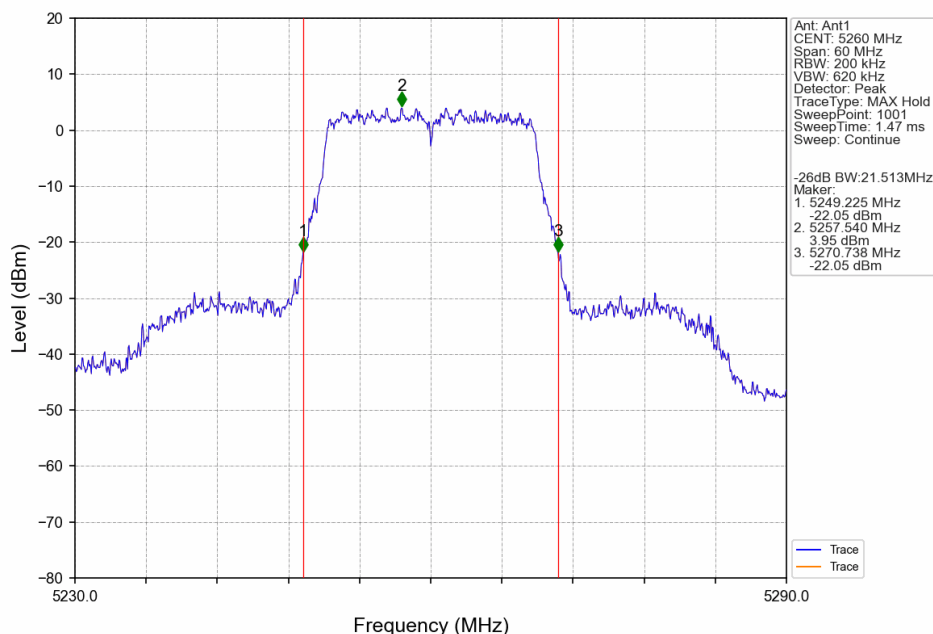
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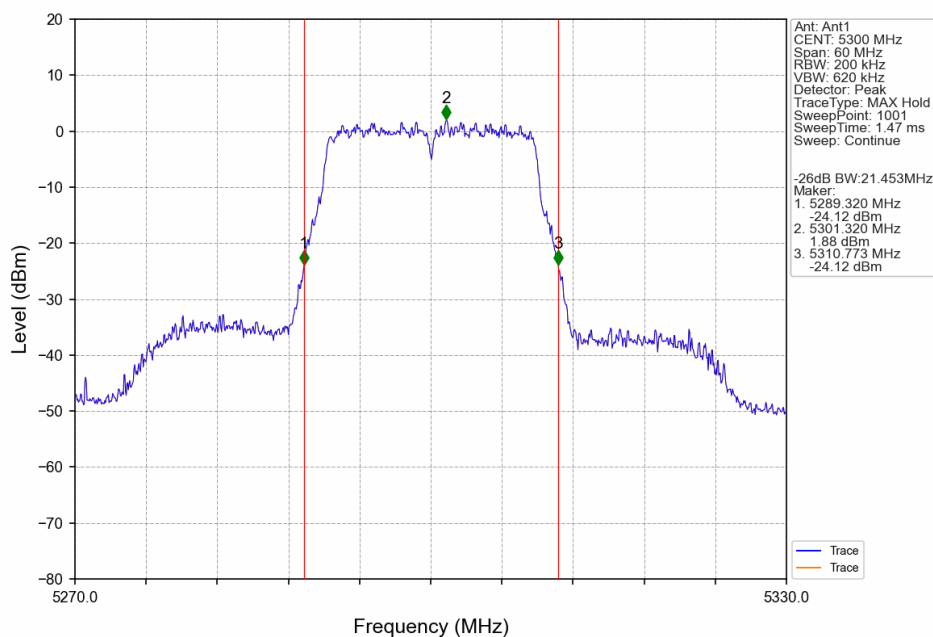
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



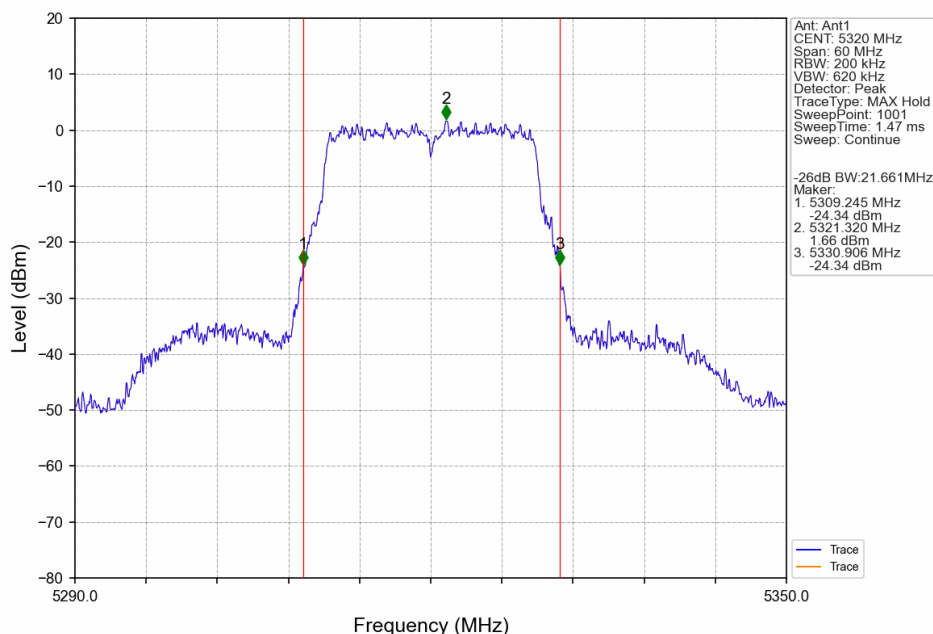
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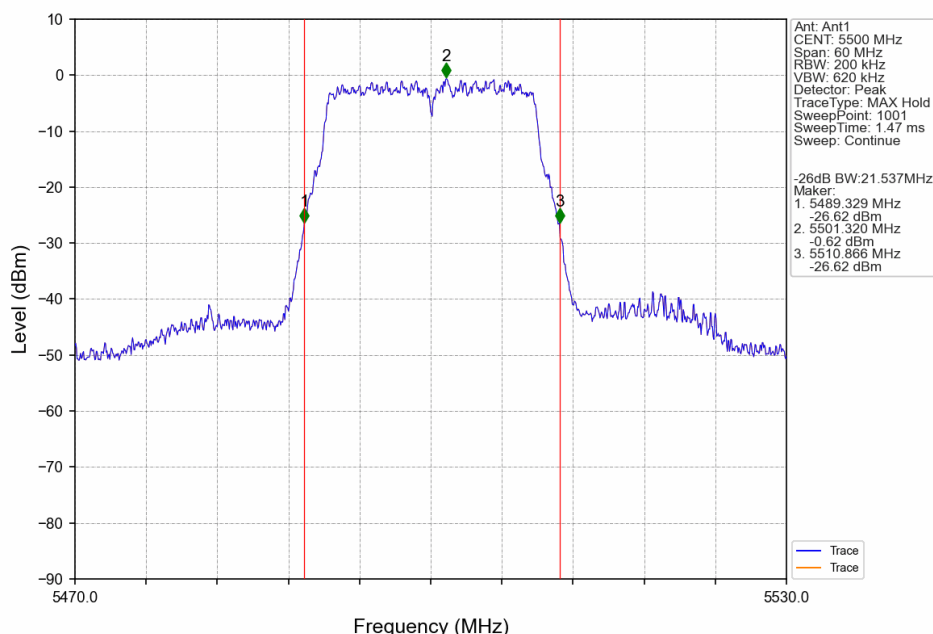
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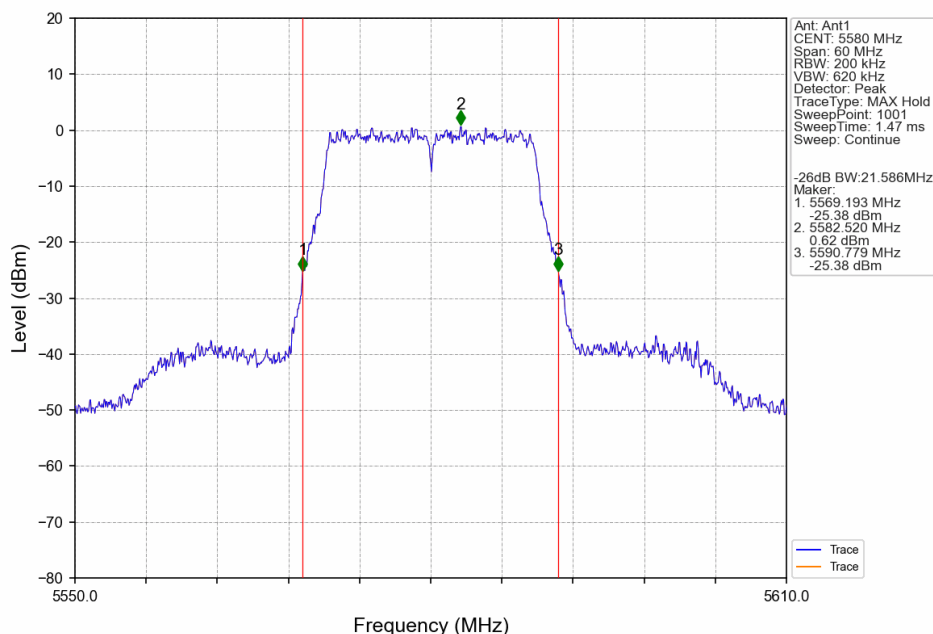
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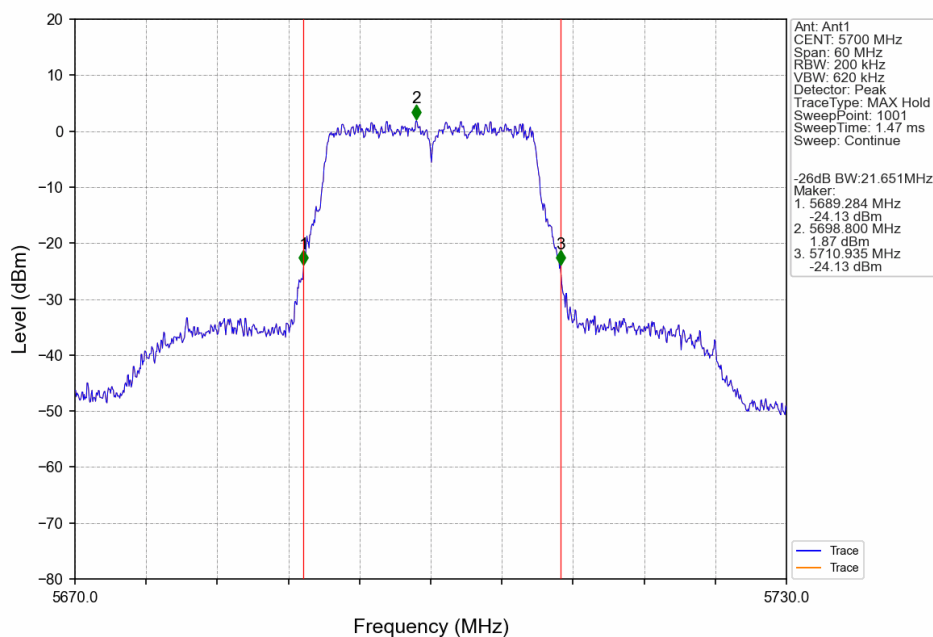
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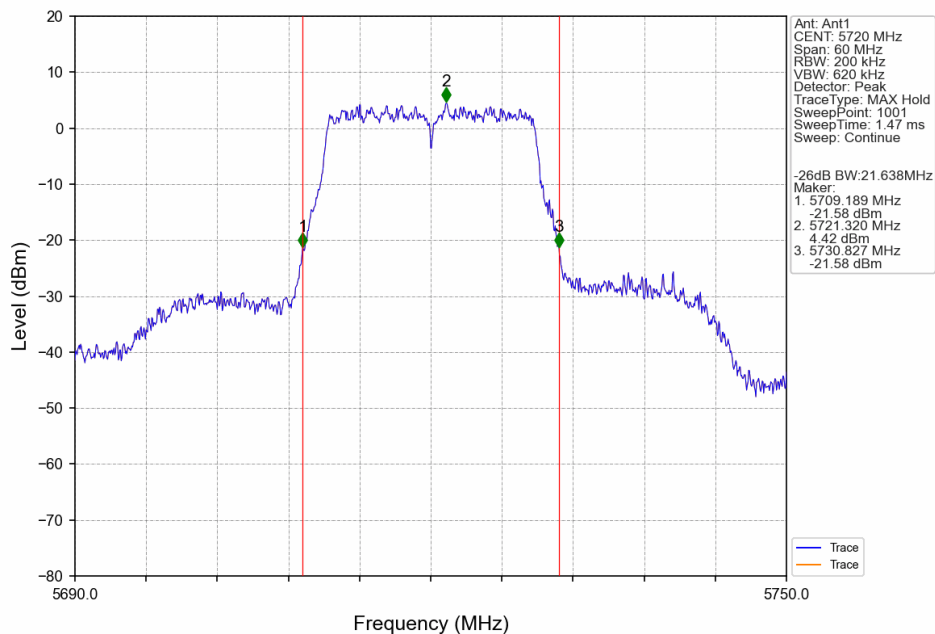
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5720MHz_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	5260	15.42	<=23.98	Pass
		5300	14.67	<=23.98	Pass
		5320	14.96	<=23.98	Pass
		5500	14.93	<=23.98	Pass
		5580	14.89	<=23.98	Pass
		5700	14.87	<=23.98	Pass
		5720	15.38	<=23.98	Pass
802.11n (HT20)	SISO	5260	14.19	<=23.98	Pass
		5300	14.44	<=23.98	Pass
		5320	14.82	<=23.98	Pass
		5500	13.56	<=23.98	Pass
		5580	14.53	<=23.98	Pass
		5700	12.92	<=23.98	Pass
		5720	15.22	<=23.98	Pass
802.11ac (VHT20)	SISO	5260	13.51	<=23.98	Pass
		5300	12.77	<=23.98	Pass
		5320	13.09	<=23.98	Pass
		5500	12.57	<=23.98	Pass
		5580	13.49	<=23.98	Pass
		5700	12.91	<=23.98	Pass
		5720	14.29	<=23.98	Pass

Note1: Antenna Gain: Ant1: 1.64dBi;

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	5260	3.27	<=11	Pass
		5300	1.49	<=11	Pass
		5320	0.35	<=11	Pass
		5500	1.69	<=11	Pass
		5580	3.80	<=11	Pass
		5700	4.21	<=11	Pass
		5720	4.09	<=11	Pass
802.11n (HT20)	SISO	5260	3.55	<=11	Pass
		5300	2.83	<=11	Pass
		5320	2.48	<=11	Pass
		5500	0.58	<=11	Pass
		5580	2.07	<=11	Pass
		5700	3.13	<=11	Pass
		5720	3.59	<=11	Pass
802.11ac (VHT20)	SISO	5260	1.01	<=11	Pass
		5300	0.37	<=11	Pass
		5320	0.10	<=11	Pass
		5500	-0.46	<=11	Pass
		5580	1.14	<=11	Pass
		5700	2.18	<=11	Pass
		5720	2.69	<=11	Pass

Note1: Antenna Gain: Ant1: 1.64dBi;

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4.1.2 PSD-Band3

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5720	1.44	<=30	Pass
802.11n (HT20)	SISO	5720	0.57	<=30	Pass
802.11ac (VHT20)	SISO	5720	-0.22	<=30	Pass

Note1: Antenna Gain: Ant1: 1.64dBi;



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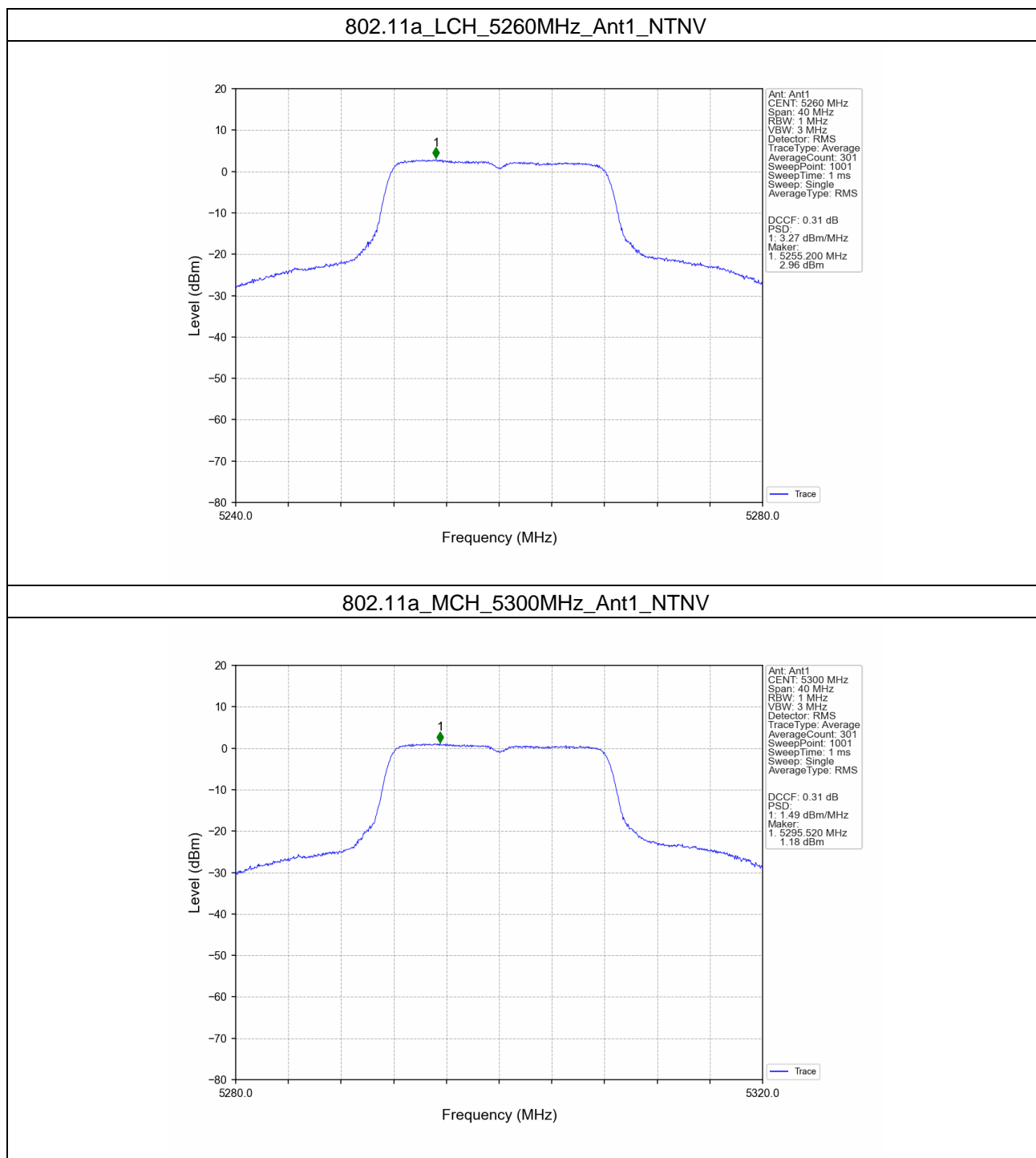
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4.2 Test Graph

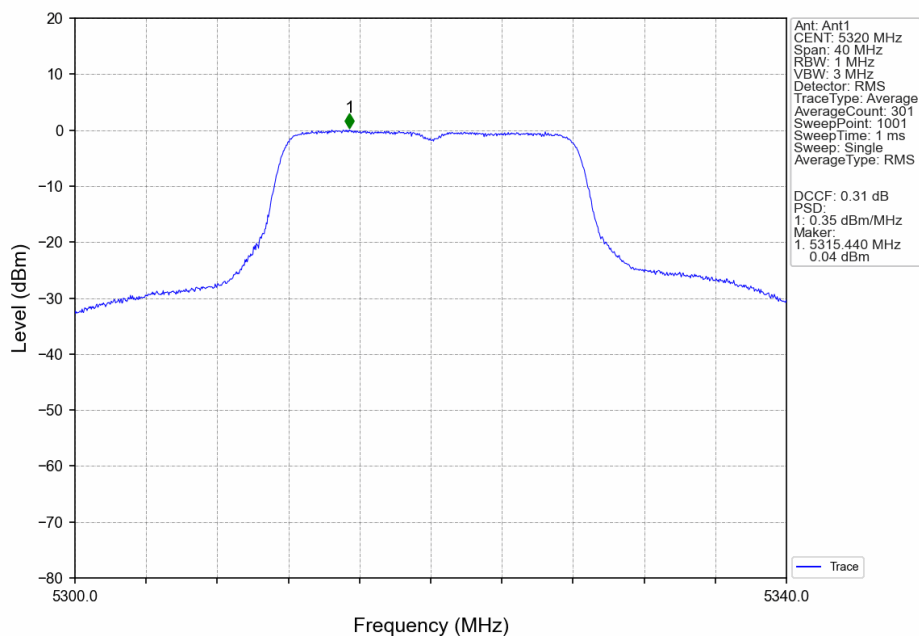
4.2.1 PSD



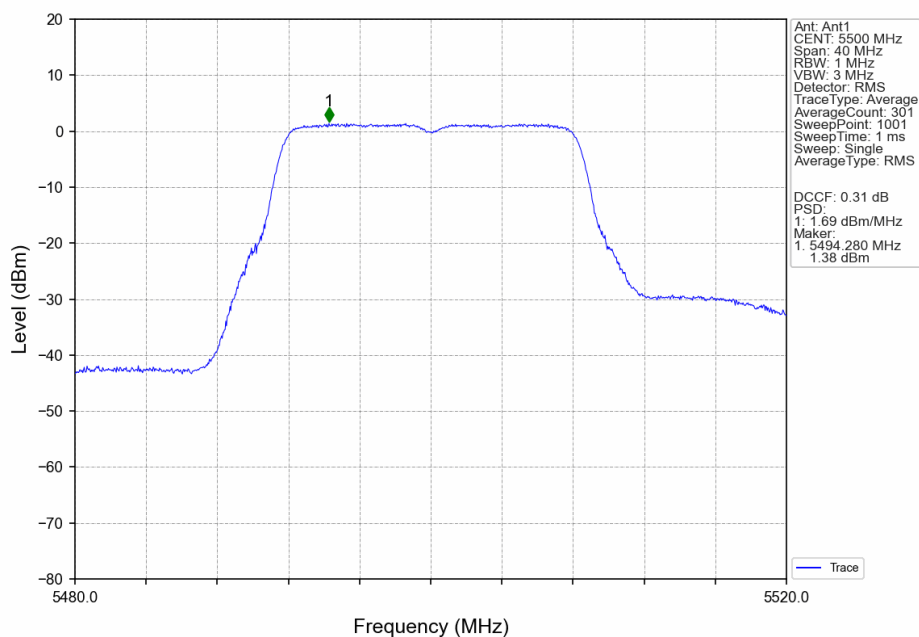
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802.11a_HCH_5320MHz_Ant1_NTNV



802.11a_LCH_5500MHz_Ant1_NTNV



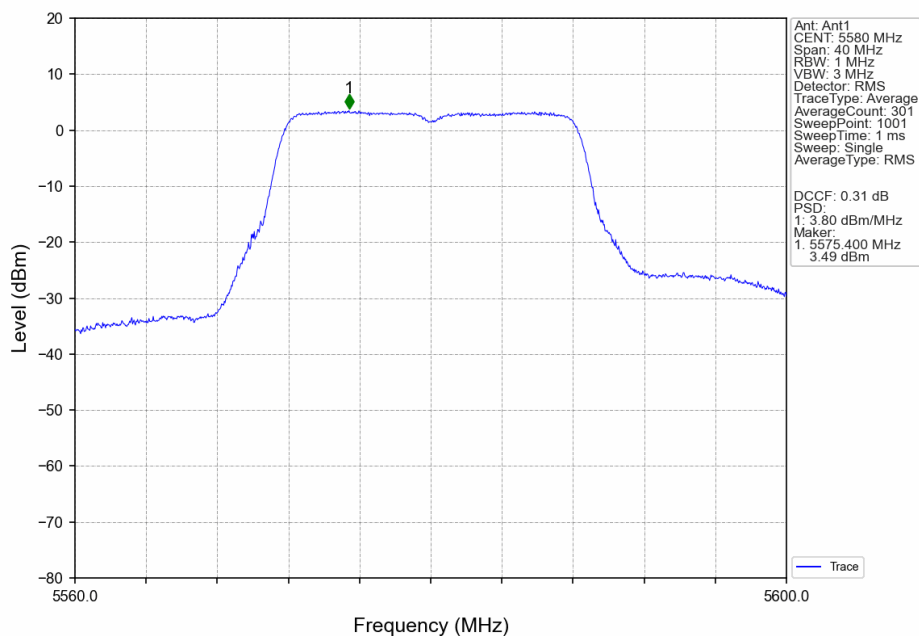
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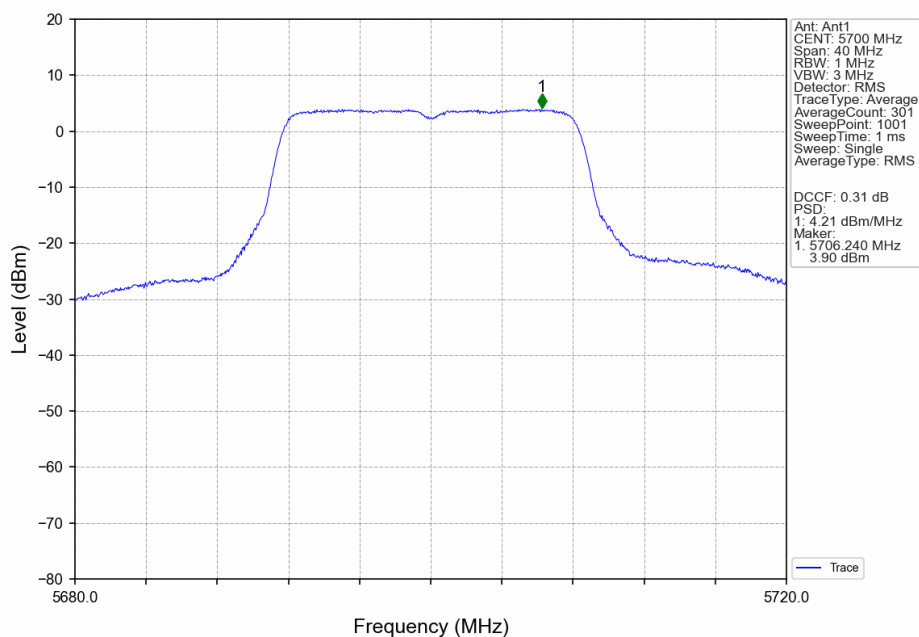
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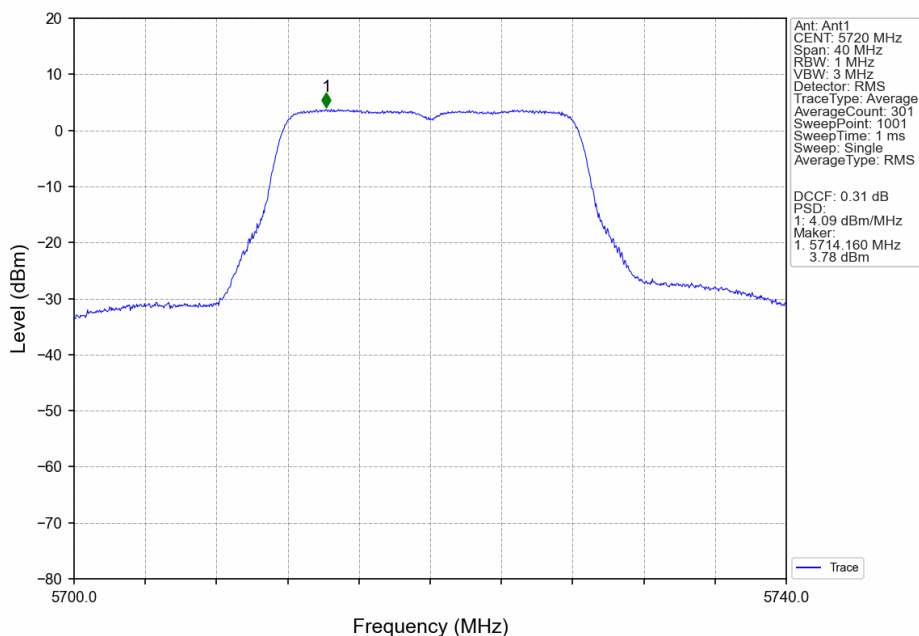
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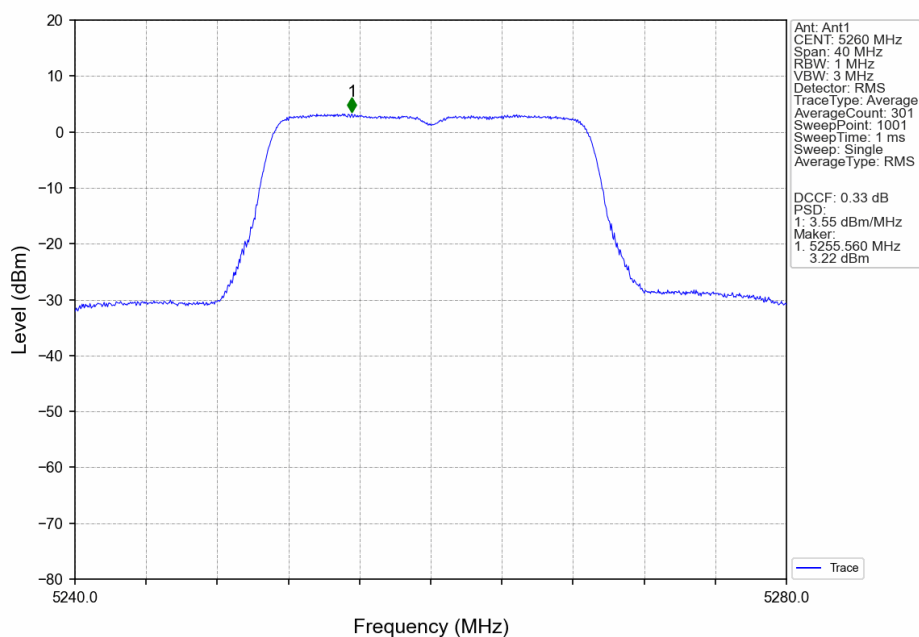
802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_HCH_5720MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



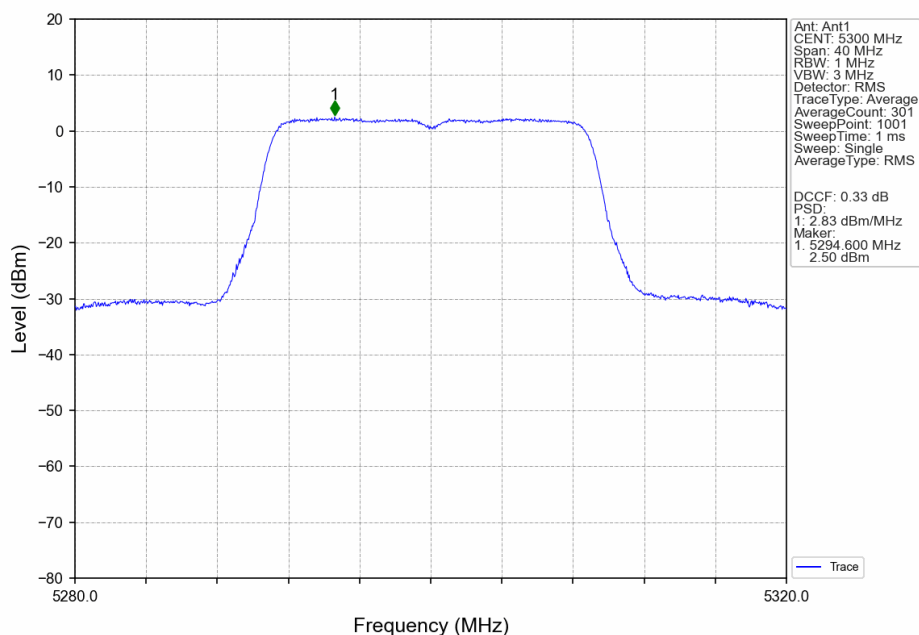
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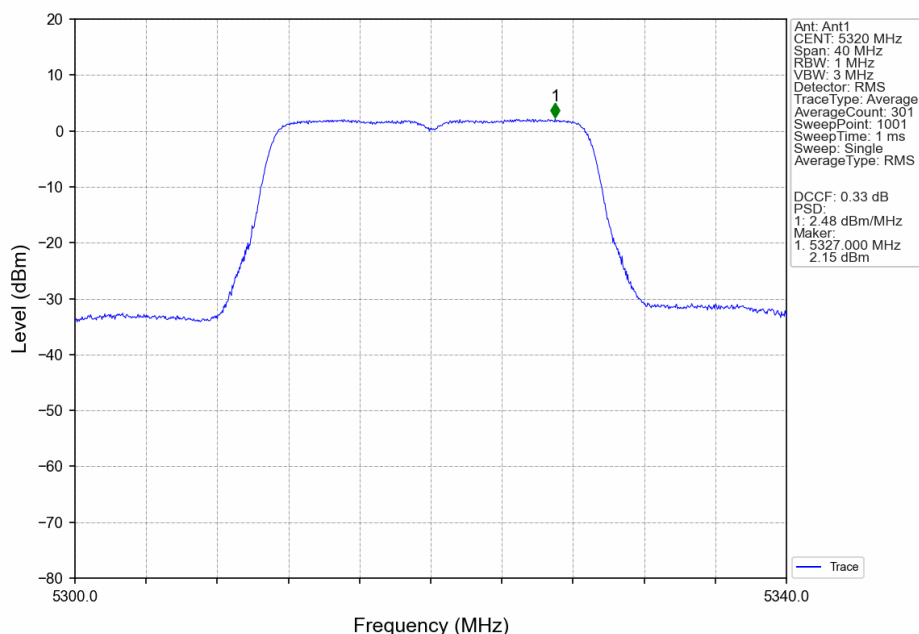
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802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



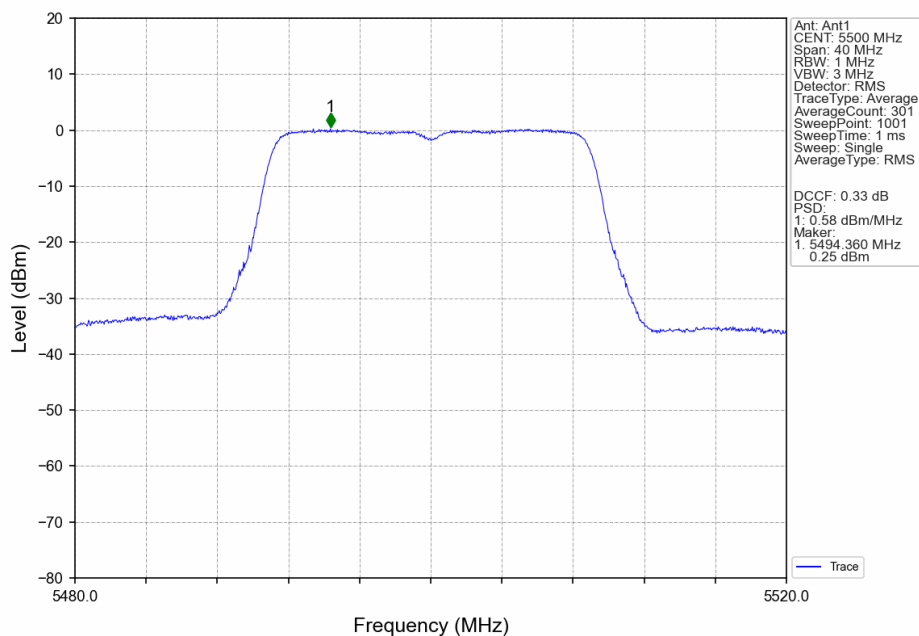
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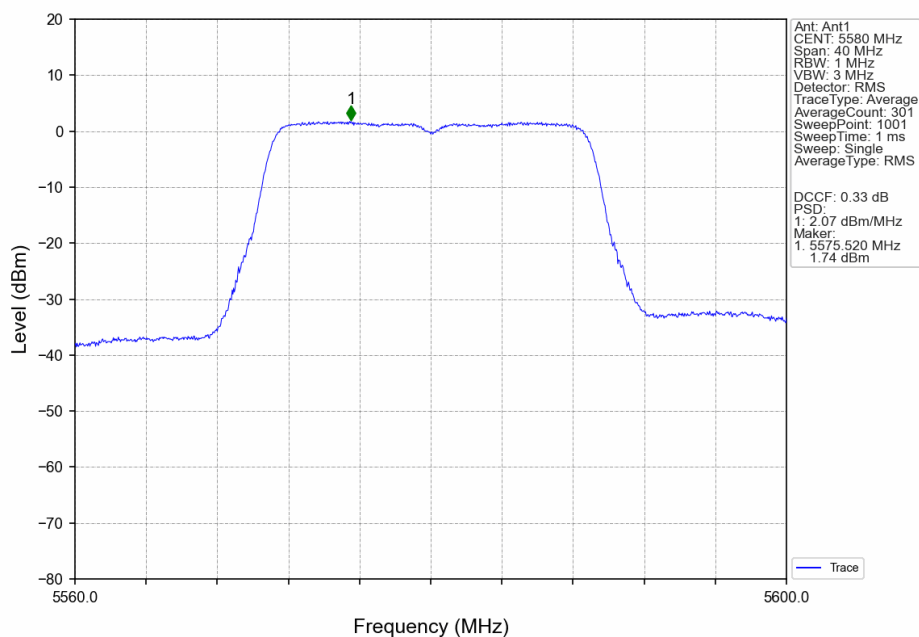
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802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



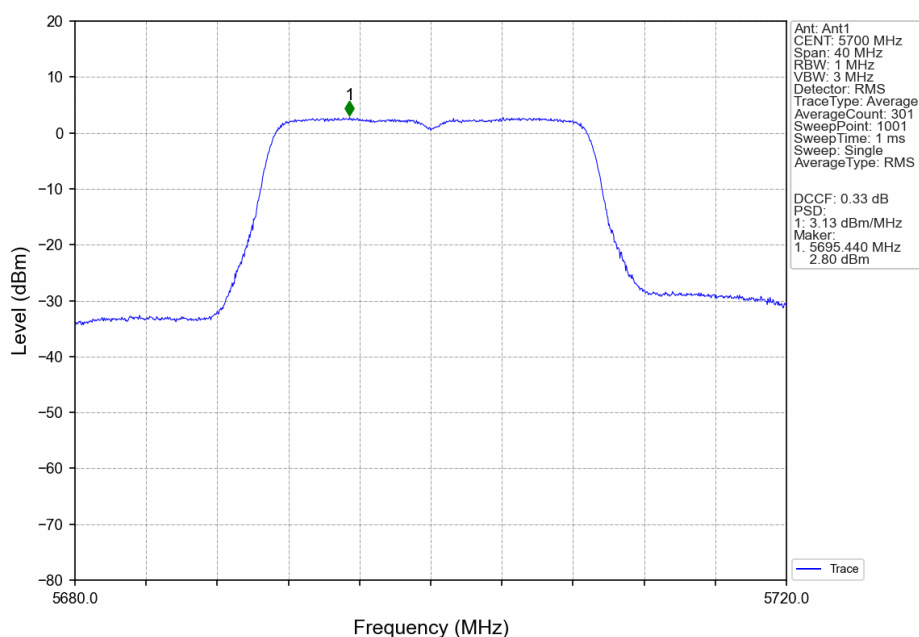
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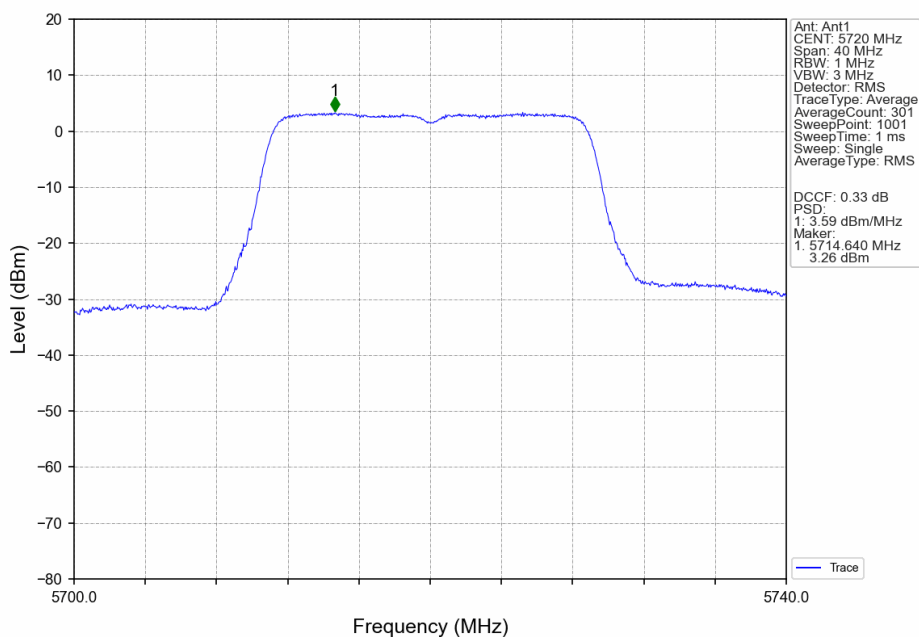
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802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_HCH_5720MHz_Ant1_NTNV



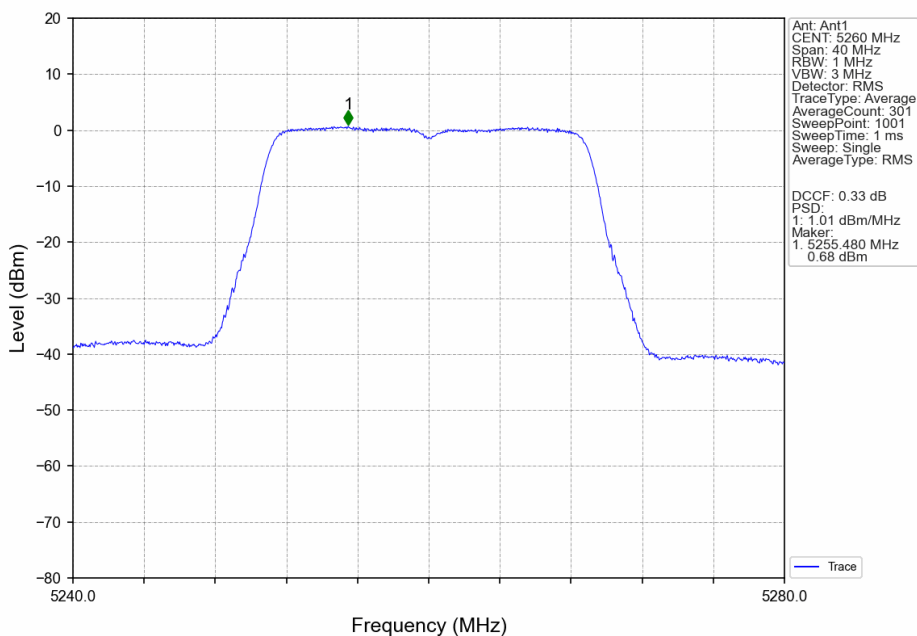
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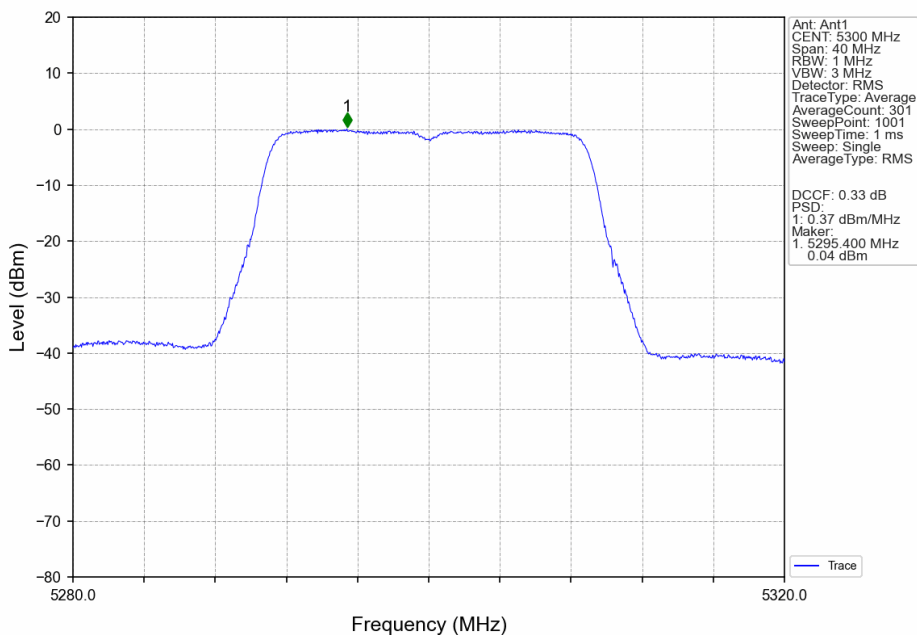
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802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



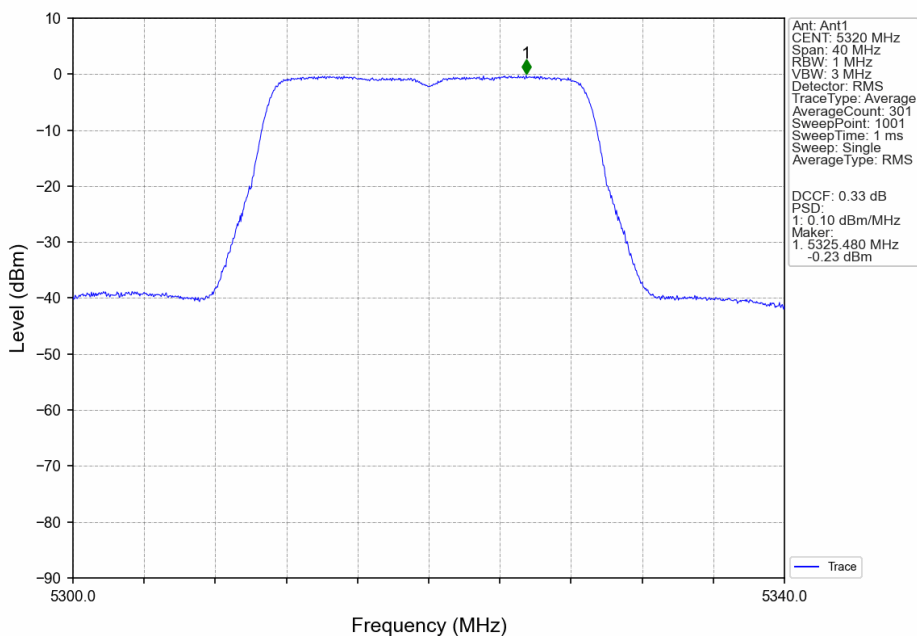
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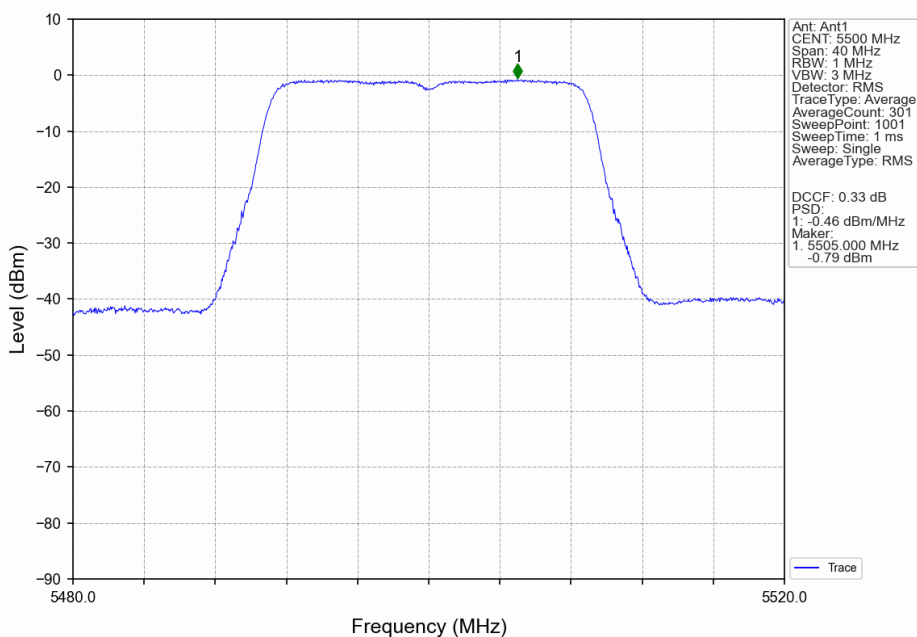
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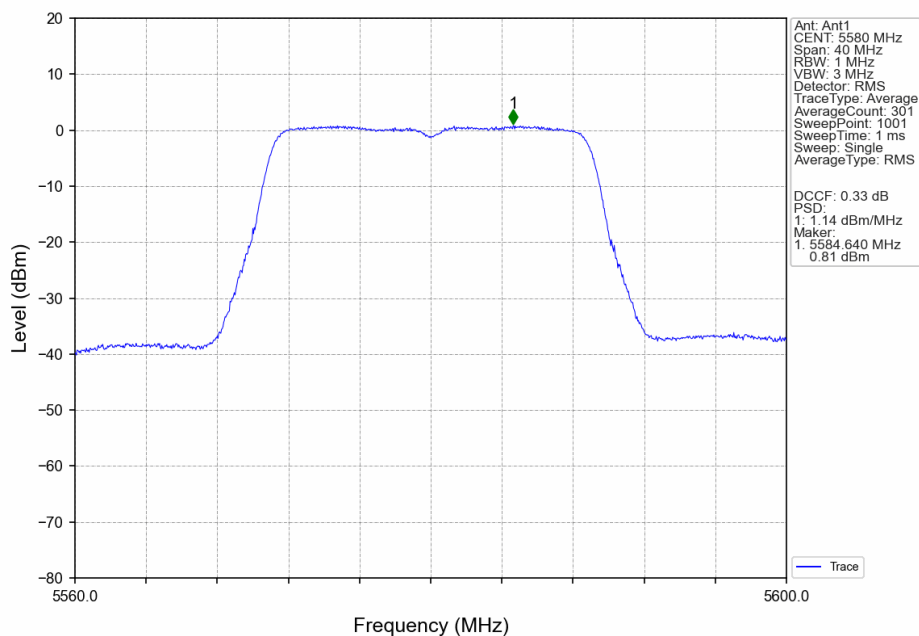
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



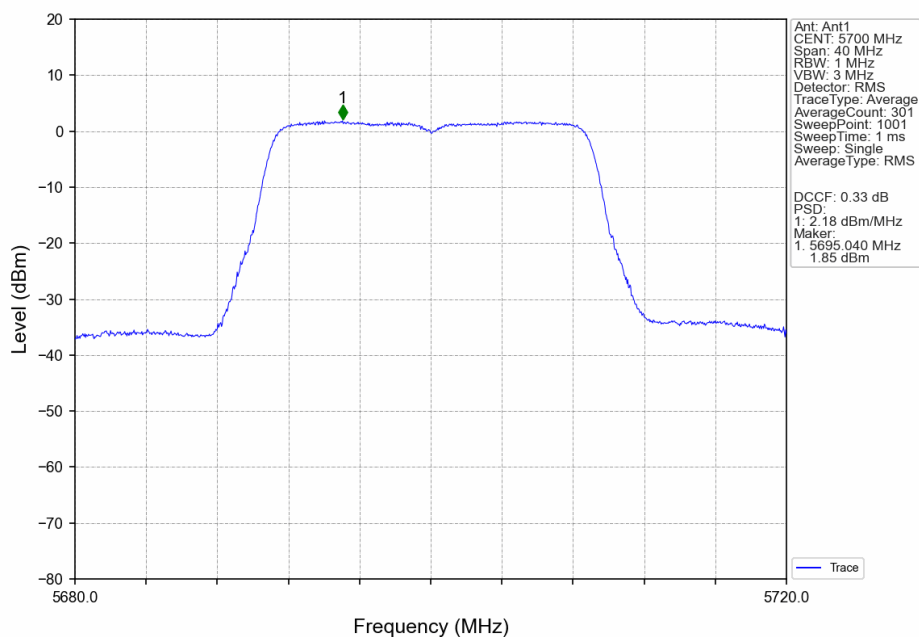
802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



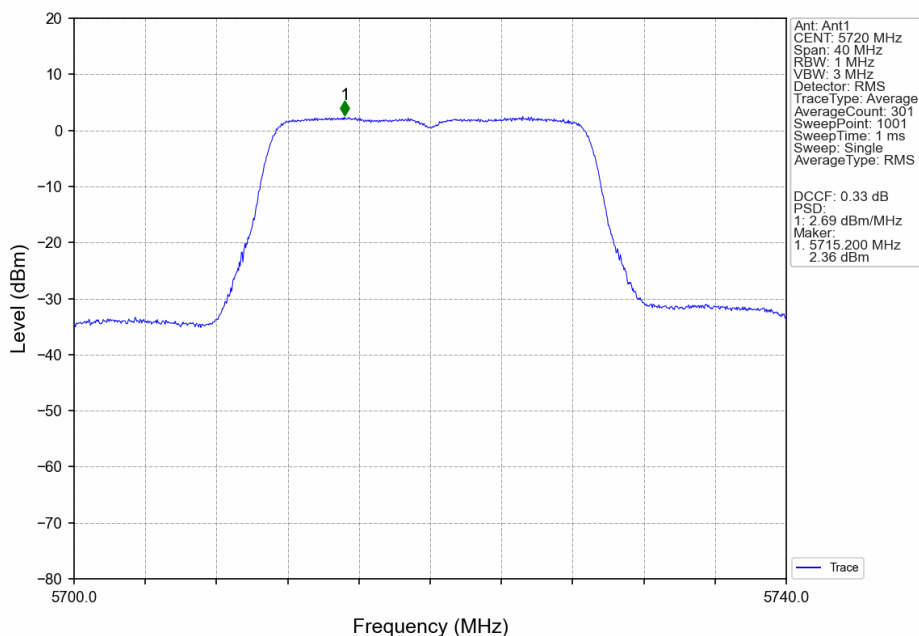
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



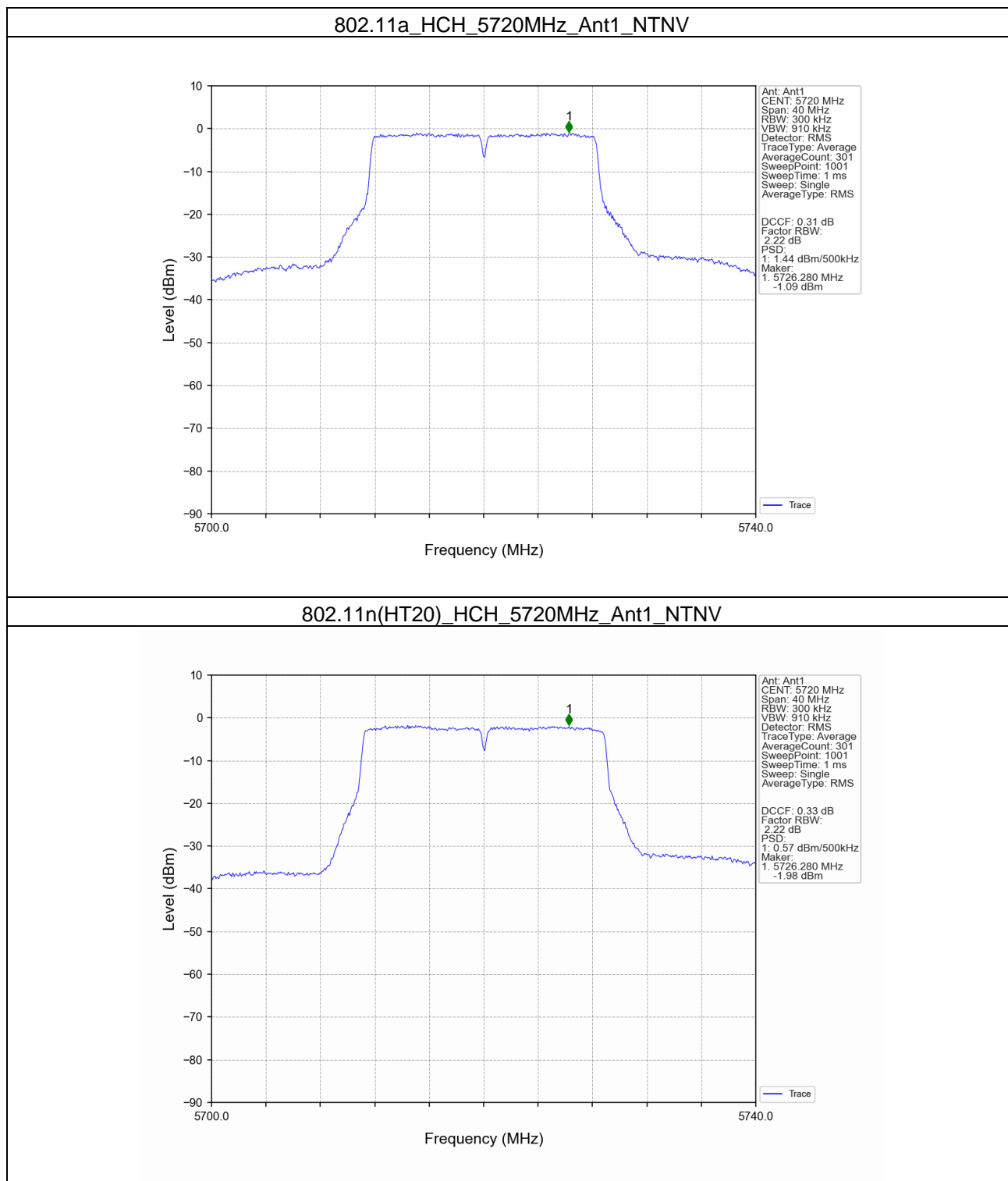
802.11ac(VHT20)_HCH_5720MHz_Ant1_NTNV



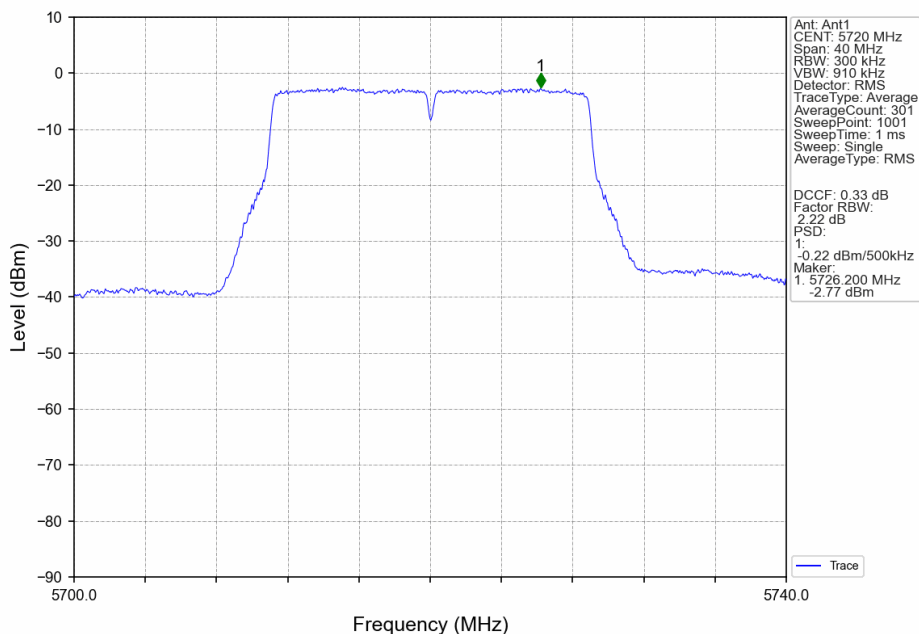
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4.2.2 PSD-Band3



802.11ac(VHT20)_HCH_5720MHz_Ant1_NTNV



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5. Frequency Stability

5.1 Test Result

5.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5260	20	102	5260.000	5250 to 5350	Pass
				120	5259.980	5250 to 5350	Pass
				138	5259.980	5250 to 5350	Pass
			-30	120	5260.060	5250 to 5350	Pass
			-20	120	5260.020	5250 to 5350	Pass
			-10	120	5260.040	5250 to 5350	Pass
			0	120	5260.000	5250 to 5350	Pass
			10	120	5259.960	5250 to 5350	Pass
			30	120	5260.020	5250 to 5350	Pass
			40	120	5259.980	5250 to 5350	Pass
			50	120	5259.980	5250 to 5350	Pass
		5300	20	102	5300.000	5250 to 5350	Pass
				120	5300.040	5250 to 5350	Pass
				138	5300.020	5250 to 5350	Pass
			-30	120	5300.000	5250 to 5350	Pass
			-20	120	5300.040	5250 to 5350	Pass
			-10	120	5300.020	5250 to 5350	Pass
			0	120	5300.040	5250 to 5350	Pass
			10	120	5299.980	5250 to 5350	Pass
			30	120	5300.040	5250 to 5350	Pass
			40	120	5299.980	5250 to 5350	Pass
			50	120	5300.040	5250 to 5350	Pass
		5320	20	102	5319.980	5250 to 5350	Pass
				120	5320.020	5250 to 5350	Pass
				138	5320.020	5250 to 5350	Pass
			-30	120	5320.000	5250 to 5350	Pass
			-20	120	5320.040	5250 to 5350	Pass
			-10	120	5320.040	5250 to 5350	Pass
			0	120	5320.040	5250 to 5350	Pass
			10	120	5320.020	5250 to 5350	Pass
			30	120	5320.000	5250 to 5350	Pass



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			40	120	5320.000	5250 to 5350	Pass
			50	120	5320.040	5250 to 5350	Pass
		5500	20	102	5500.020	5470 to 5725	Pass
				120	5500.080	5470 to 5725	Pass
				138	5500.020	5470 to 5725	Pass
			-30	120	5499.980	5470 to 5725	Pass
			-20	120	5500.040	5470 to 5725	Pass
			-10	120	5500.100	5470 to 5725	Pass
			0	120	5500.060	5470 to 5725	Pass
			10	120	5500.020	5470 to 5725	Pass
			30	120	5500.000	5470 to 5725	Pass
			40	120	5500.020	5470 to 5725	Pass
			50	120	5500.020	5470 to 5725	Pass
		5580	20	102	5580.080	5470 to 5725	Pass
				120	5580.020	5470 to 5725	Pass
				138	5580.020	5470 to 5725	Pass
			-30	120	5580.060	5470 to 5725	Pass
			-20	120	5580.020	5470 to 5725	Pass
			-10	120	5579.980	5470 to 5725	Pass
			0	120	5580.060	5470 to 5725	Pass
			10	120	5580.020	5470 to 5725	Pass
			30	120	5580.080	5470 to 5725	Pass
			40	120	5580.060	5470 to 5725	Pass
			50	120	5580.000	5470 to 5725	Pass
		5700	20	102	5700.040	5470 to 5725	Pass
				120	5700.120	5470 to 5725	Pass
				138	5700.020	5470 to 5725	Pass
			-30	120	5700.060	5470 to 5725	Pass
			-20	120	5700.060	5470 to 5725	Pass
			-10	120	5700.080	5470 to 5725	Pass
			0	120	5699.980	5470 to 5725	Pass
			10	120	5700.020	5470 to 5725	Pass
			30	120	5700.060	5470 to 5725	Pass
			40	120	5700.020	5470 to 5725	Pass
			50	120	5700.020	5470 to 5725	Pass
802.11a	SISO	5720	20	102	5720.120	5470 to 5850	Pass
				120	5720.040	5470 to 5850	Pass
				138	5720.040	5470 to 5850	Pass
			-30	120	5720.080	5470 to 5850	Pass
			-20	120	5720.020	5470 to 5850	Pass



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802.11n (HT20)	SISO	5260	-10	120	5720.020	5470 to 5850	Pass
			0	120	5720.020	5470 to 5850	Pass
			10	120	5720.060	5470 to 5850	Pass
			30	120	5720.060	5470 to 5850	Pass
			40	120	5720.060	5470 to 5850	Pass
			50	120	5720.040	5470 to 5850	Pass
		5300	20	102	5260.020	5250 to 5350	Pass
				120	5260.060	5250 to 5350	Pass
				138	5260.000	5250 to 5350	Pass
			-30	120	5260.060	5250 to 5350	Pass
			-20	120	5259.980	5250 to 5350	Pass
			-10	120	5260.000	5250 to 5350	Pass
			0	120	5260.060	5250 to 5350	Pass
			10	120	5260.040	5250 to 5350	Pass
			30	120	5259.980	5250 to 5350	Pass
			40	120	5260.120	5250 to 5350	Pass
			50	120	5260.040	5250 to 5350	Pass
			20	102	5300.060	5250 to 5350	Pass
				120	5300.020	5250 to 5350	Pass
				138	5300.040	5250 to 5350	Pass
			-30	120	5300.080	5250 to 5350	Pass
			-20	120	5300.060	5250 to 5350	Pass
			-10	120	5300.040	5250 to 5350	Pass
			0	120	5300.040	5250 to 5350	Pass
			10	120	5300.060	5250 to 5350	Pass
			30	120	5300.060	5250 to 5350	Pass
			40	120	5300.000	5250 to 5350	Pass
			50	120	5300.080	5250 to 5350	Pass
		5320	20	102	5320.120	5250 to 5350	Pass
				120	5320.060	5250 to 5350	Pass
				138	5320.060	5250 to 5350	Pass
			-30	120	5320.080	5250 to 5350	Pass
			-20	120	5320.060	5250 to 5350	Pass
			-10	120	5320.040	5250 to 5350	Pass
			0	120	5320.040	5250 to 5350	Pass
			10	120	5320.060	5250 to 5350	Pass
			30	120	5320.040	5250 to 5350	Pass
			40	120	5319.980	5250 to 5350	Pass
			50	120	5320.020	5250 to 5350	Pass
		5500	20	102	5500.080	5470 to 5725	Pass



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				120	5500.040	5470 to 5725	Pass
				138	5500.060	5470 to 5725	Pass
			-30	120	5500.080	5470 to 5725	Pass
			-20	120	5500.060	5470 to 5725	Pass
			-10	120	5500.040	5470 to 5725	Pass
			0	120	5500.020	5470 to 5725	Pass
			10	120	5500.020	5470 to 5725	Pass
			30	120	5500.060	5470 to 5725	Pass
			40	120	5500.100	5470 to 5725	Pass
			50	120	5500.020	5470 to 5725	Pass
		5580	20	102	5580.000	5470 to 5725	Pass
				120	5580.060	5470 to 5725	Pass
				138	5580.040	5470 to 5725	Pass
			-30	120	5580.080	5470 to 5725	Pass
			-20	120	5579.980	5470 to 5725	Pass
			-10	120	5580.060	5470 to 5725	Pass
			0	120	5579.980	5470 to 5725	Pass
			10	120	5580.060	5470 to 5725	Pass
			30	120	5579.980	5470 to 5725	Pass
			40	120	5580.120	5470 to 5725	Pass
			50	120	5580.040	5470 to 5725	Pass
		5700	20	102	5700.040	5470 to 5725	Pass
				120	5700.060	5470 to 5725	Pass
				138	5700.060	5470 to 5725	Pass
			-30	120	5700.040	5470 to 5725	Pass
			-20	120	5700.080	5470 to 5725	Pass
			-10	120	5700.060	5470 to 5725	Pass
			0	120	5700.020	5470 to 5725	Pass
			10	120	5700.020	5470 to 5725	Pass
			30	120	5700.040	5470 to 5725	Pass
			40	120	5700.040	5470 to 5725	Pass
			50	120	5700.060	5470 to 5725	Pass
802.11n	SISO	5720	20	102	5720.020	5470 to 5850	Pass
				120	5720.020	5470 to 5850	Pass
				138	5720.040	5470 to 5850	Pass
			-30	120	5720.060	5470 to 5850	Pass
			-20	120	5719.960	5470 to 5850	Pass
			-10	120	5720.040	5470 to 5850	Pass
			0	120	5720.020	5470 to 5850	Pass
			10	120	5720.020	5470 to 5850	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241100430501

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802.11ac (VHT20)	SISO		30	120	5720.020	5470 to 5850	Pass
			40	120	5720.040	5470 to 5850	Pass
			50	120	5720.040	5470 to 5850	Pass
		5260	20	102	5260.020	5250 to 5350	Pass
				120	5260.000	5250 to 5350	Pass
				138	5260.020	5250 to 5350	Pass
			-30	120	5260.060	5250 to 5350	Pass
			-20	120	5260.040	5250 to 5350	Pass
			-10	120	5260.080	5250 to 5350	Pass
			0	120	5260.020	5250 to 5350	Pass
			10	120	5260.020	5250 to 5350	Pass
			30	120	5260.060	5250 to 5350	Pass
			40	120	5260.040	5250 to 5350	Pass
			50	120	5260.080	5250 to 5350	Pass
		5300	20	102	5300.060	5250 to 5350	Pass
				120	5300.080	5250 to 5350	Pass
				138	5300.120	5250 to 5350	Pass
			-30	120	5300.040	5250 to 5350	Pass
			-20	120	5300.020	5250 to 5350	Pass
			-10	120	5300.080	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
			50	120	5300.020	5250 to 5350	Pass
		5320	20	102	5320.020	5250 to 5350	Pass
				120	5320.040	5250 to 5350	Pass
				138	5320.040	5250 to 5350	Pass
			-30	120	5320.120	5250 to 5350	Pass
			-20	120	5320.020	5250 to 5350	Pass
			-10	120	5320.080	5250 to 5350	Pass
			0	120	5320.040	5250 to 5350	Pass
			10	120	5320.040	5250 to 5350	Pass
			30	120	5320.040	5250 to 5350	Pass
			40	120	5320.040	5250 to 5350	Pass
			50	120	5320.080	5250 to 5350	Pass
		5500	20	102	5500.000	5470 to 5725	Pass
				120	5500.040	5470 to 5725	Pass
				138	5500.040	5470 to 5725	Pass
			-30	120	5500.060	5470 to 5725	Pass



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			-20	120	5500.060	5470 to 5725	Pass
			-10	120	5500.060	5470 to 5725	Pass
			0	120	5500.000	5470 to 5725	Pass
			10	120	5500.020	5470 to 5725	Pass
			30	120	5500.020	5470 to 5725	Pass
			40	120	5500.080	5470 to 5725	Pass
			50	120	5500.000	5470 to 5725	Pass
		5580	20	102	5580.100	5470 to 5725	Pass
				120	5580.020	5470 to 5725	Pass
				138	5580.060	5470 to 5725	Pass
			-30	120	5580.100	5470 to 5725	Pass
			-20	120	5580.040	5470 to 5725	Pass
			-10	120	5580.060	5470 to 5725	Pass
			0	120	5580.040	5470 to 5725	Pass
			10	120	5580.040	5470 to 5725	Pass
			30	120	5580.020	5470 to 5725	Pass
			40	120	5580.000	5470 to 5725	Pass
			50	120	5580.040	5470 to 5725	Pass
		5700	20	102	5700.060	5470 to 5725	Pass
				120	5700.100	5470 to 5725	Pass
				138	5700.060	5470 to 5725	Pass
			-30	120	5700.040	5470 to 5725	Pass
			-20	120	5700.080	5470 to 5725	Pass
			-10	120	5700.020	5470 to 5725	Pass
			0	120	5700.020	5470 to 5725	Pass
			10	120	5700.020	5470 to 5725	Pass
			30	120	5700.040	5470 to 5725	Pass
			40	120	5700.040	5470 to 5725	Pass
			50	120	5700.080	5470 to 5725	Pass
802.11ac (VHT20)	SISO	5720	20	102	5720.080	5470 to 5850	Pass
				120	5720.020	5470 to 5850	Pass
				138	5720.040	5470 to 5850	Pass
			-30	120	5720.020	5470 to 5850	Pass
			-20	120	5720.020	5470 to 5850	Pass
			-10	120	5720.000	5470 to 5850	Pass
			0	120	5720.020	5470 to 5850	Pass
			10	120	5719.940	5470 to 5850	Pass
			30	120	5720.020	5470 to 5850	Pass
			40	120	5719.960	5470 to 5850	Pass
			50	120	5720.060	5470 to 5850	Pass



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6.DFS

Test Result:

BW/Channel	Test Item	Result
80MHz/5530MHz	Channel Availability Check Time	N/A
	Minimum Off-Channel CAC Time	N/A
	Maximum Off-Channel CAC Time	N/A
	In-Service Monitoring	N/A
	Channel Move Time	Pass
	Channel Closing Transmission Time	Pass
	Non-Occupancy Period	N/A
	Uniform Spreading	N/A

The test plots was shown in the report below.

Remark: Channel loading of Timing plots is greater than 17%.

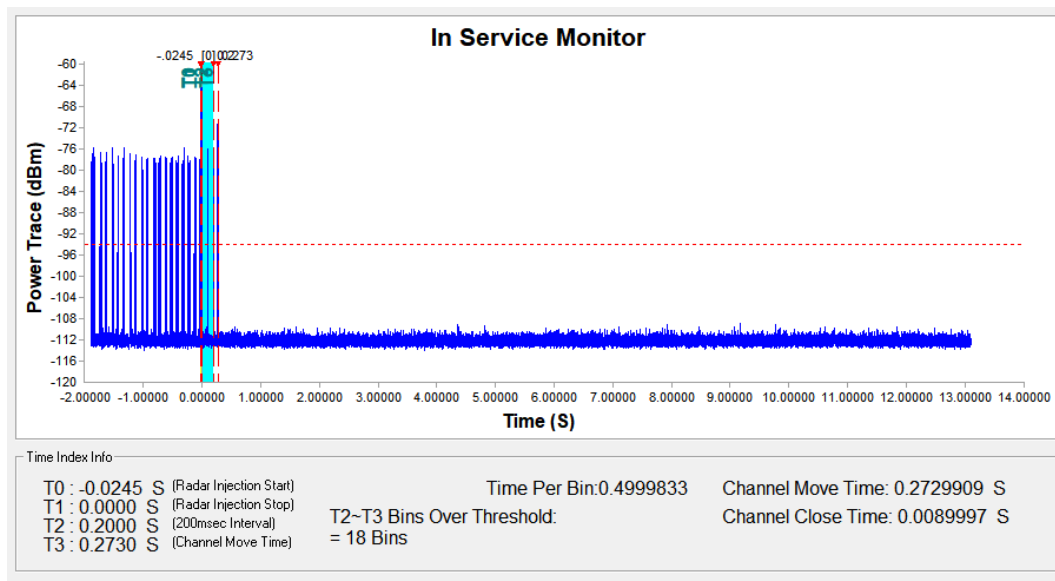
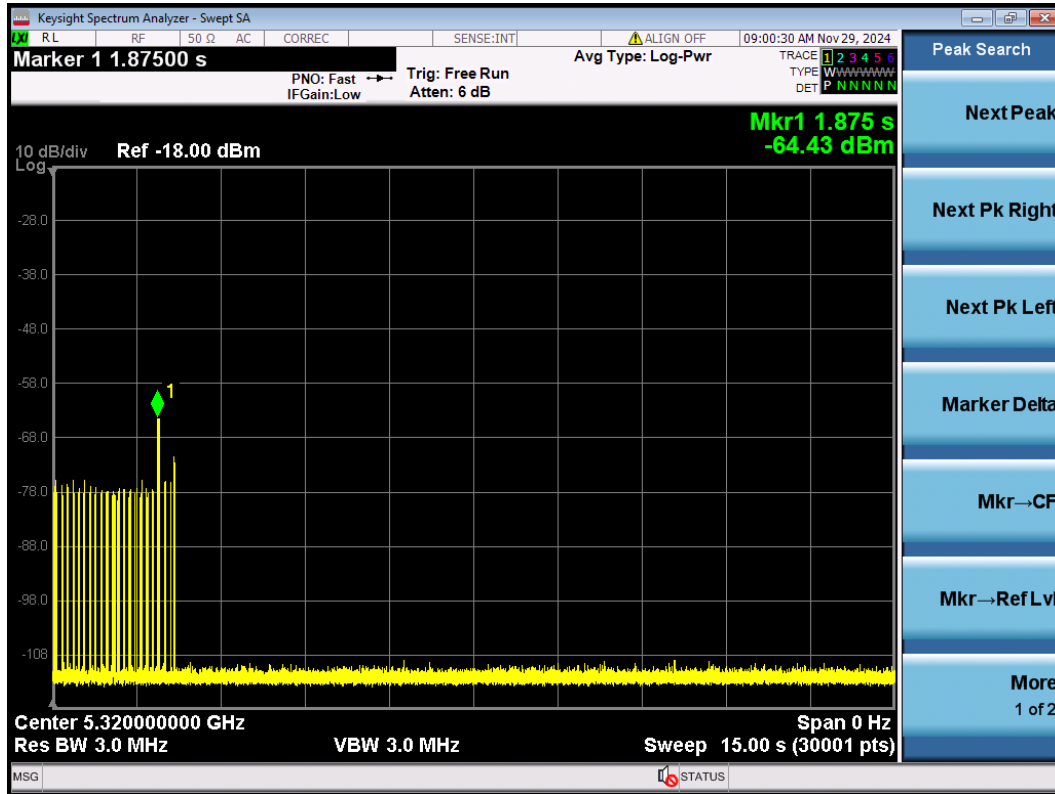
This is the master device used to test DFS FCC ID: Q87-WRT3200ACM



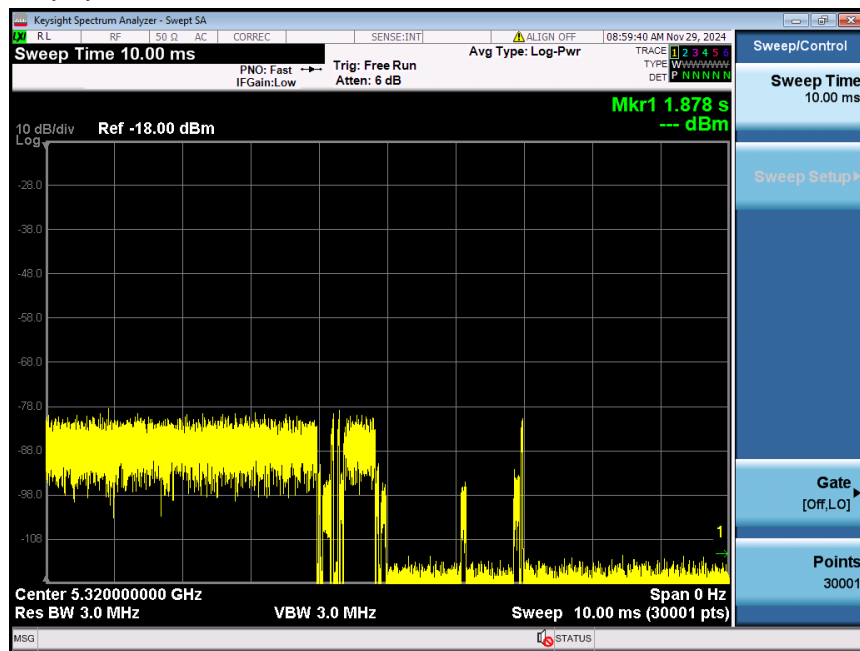
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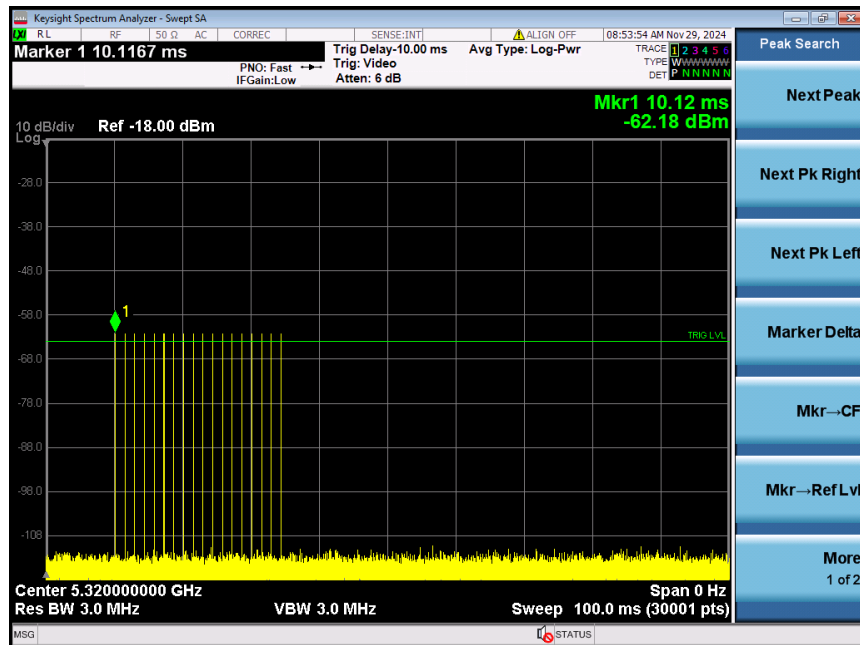
5320MHz



Duty cycle



Radar



- End of the Report -