

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230700240405

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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11a	SISO	5260	5.90	5.76	/	<=11	Pass
		5300	6.89	5.75	/	<=11	Pass
		5320	6.71	5.68	/	<=11	Pass
		5500	5.16	5.94	/	<=11	Pass
		5580	5.37	6.58	/	<=11	Pass
		5700	6.62	4.41	/	<=11	Pass
802.11n (HT20)	MIMO	5260	3.36	1.96	5.62	<=8.57	Pass
		5300	3.33	2.23	5.79	<=8.57	Pass
		5320	3.37	2.22	5.74	<=8.57	Pass
		5500	2.10	3.66	5.88	<=8.57	Pass
		5580	0.06	4.08	5.51	<=8.57	Pass
		5700	2.16	3.51	5.82	<=8.57	Pass
802.11n (HT40)	MIMO	5270	0.14	-1.23	2.46	<=8.57	Pass
		5310	0.08	-1.14	2.43	<=8.57	Pass
		5510	-2.04	-0.50	1.69	<=8.57	Pass
		5550	-2.88	-0.44	1.43	<=8.57	Pass
		5670	-2.02	-0.17	1.86	<=8.57	Pass
802.11ac (VHT20)	MIMO	5260	3.36	2.35	5.79	<=8.57	Pass
		5300	3.40	2.23	5.78	<=8.57	Pass
		5320	3.56	2.36	6.01	<=8.57	Pass
		5500	2.31	3.98	6.04	<=8.57	Pass
		5580	0.34	4.25	5.67	<=8.57	Pass
		5700	2.44	3.90	6.12	<=8.57	Pass
802.11ac (VHT40)	MIMO	5270	0.04	-1.41	2.31	<=8.57	Pass
		5310	-0.19	-1.16	2.31	<=8.57	Pass
		5510	-0.83	0.41	2.84	<=8.57	Pass
		5550	-1.61	0.57	2.52	<=8.57	Pass
		5670	-2.03	0.10	2.08	<=8.57	Pass
802.11ac (VHT80)	MIMO	5290	-2.93	-4.41	-0.74	<=8.57	Pass
		5530	-4.17	-2.17	-0.21	<=8.57	Pass

Remark:

MIMO limit=SISO limit- Directional gain+6dBi

Directional gain=8.43dBi

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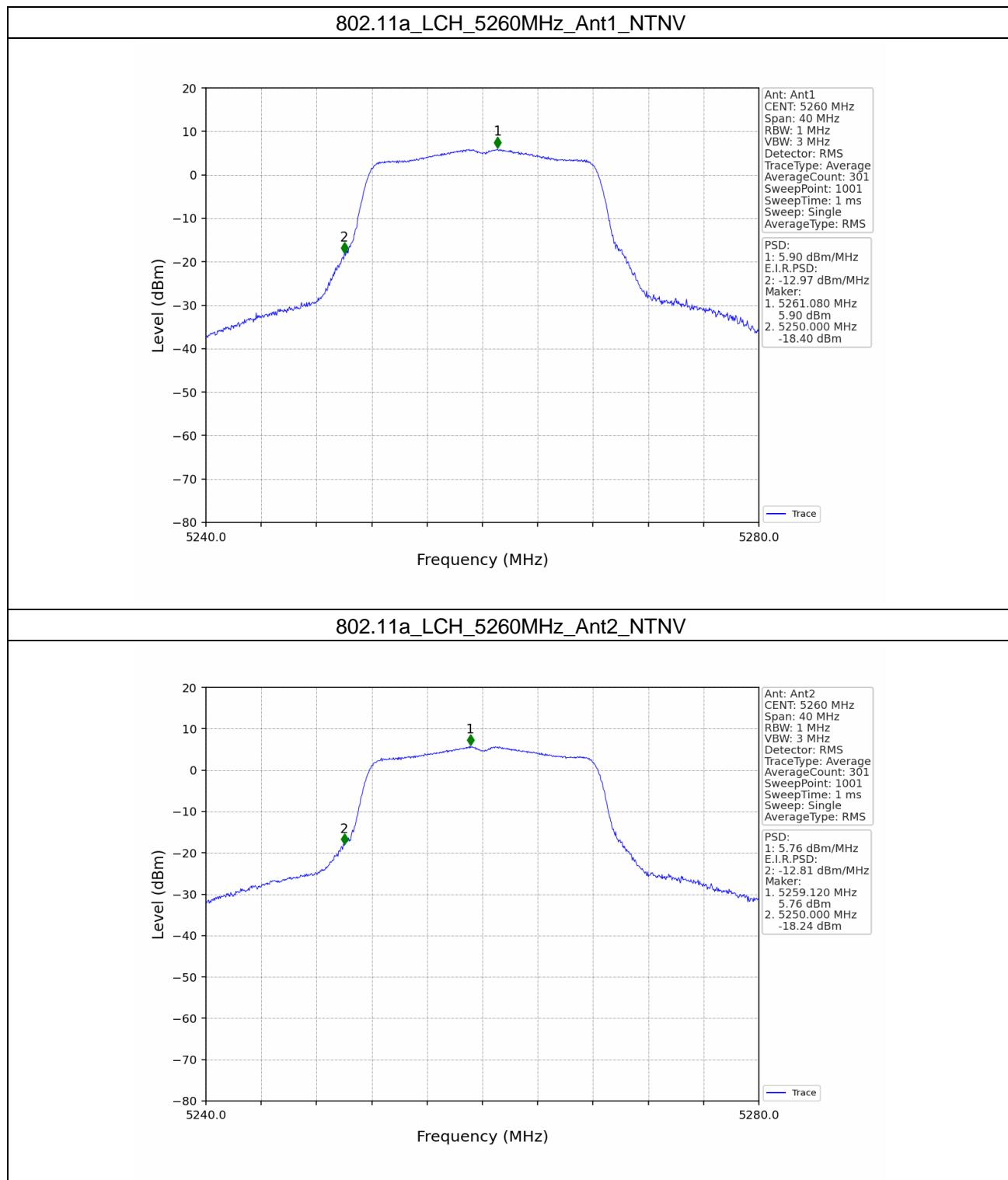
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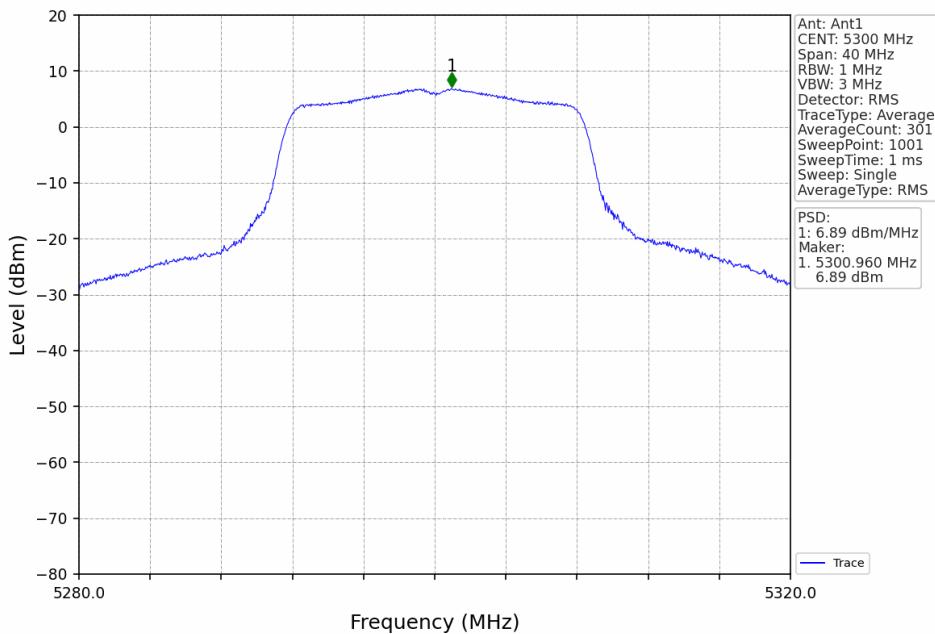
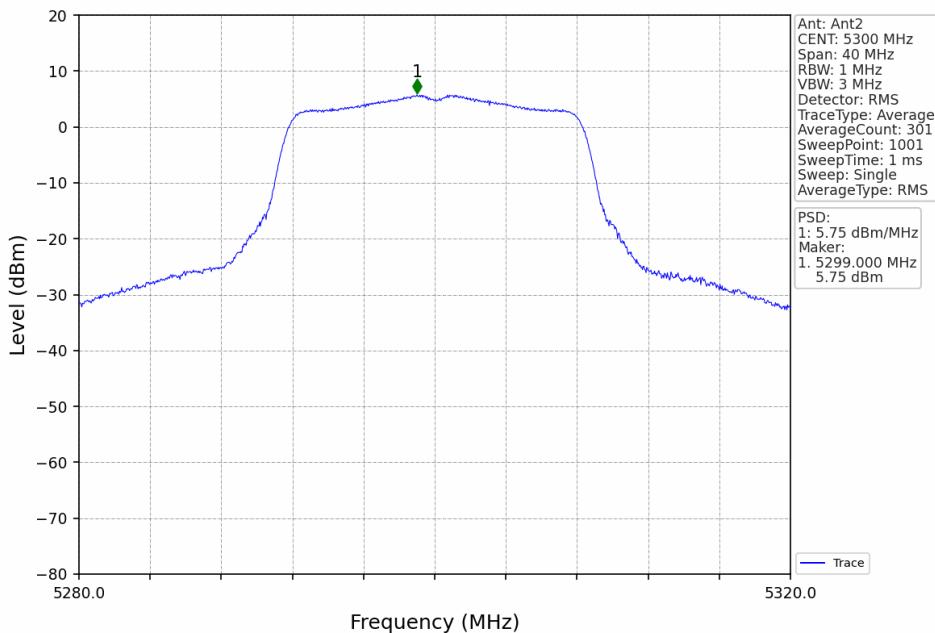
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4.1.2 Test Graph

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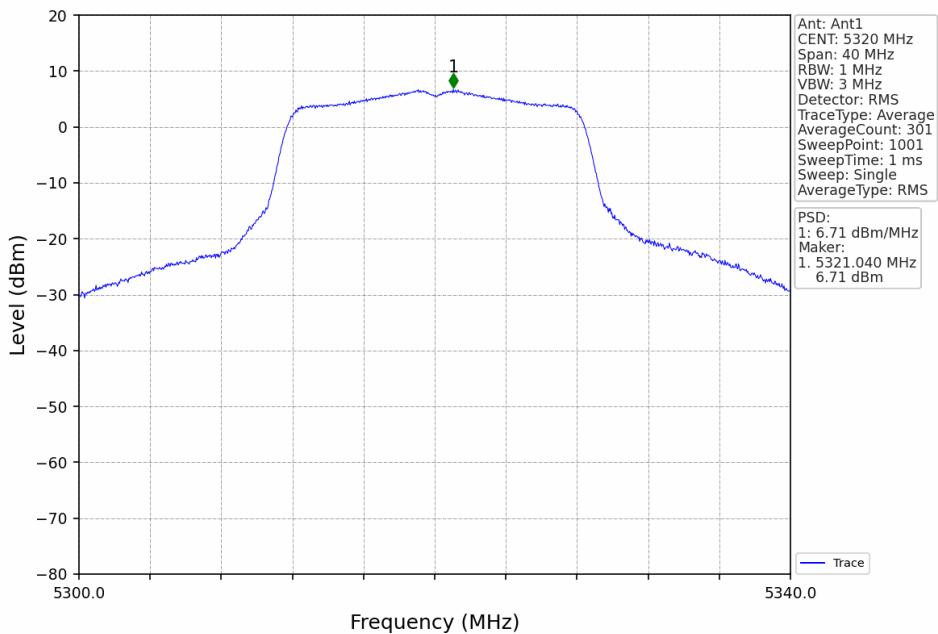
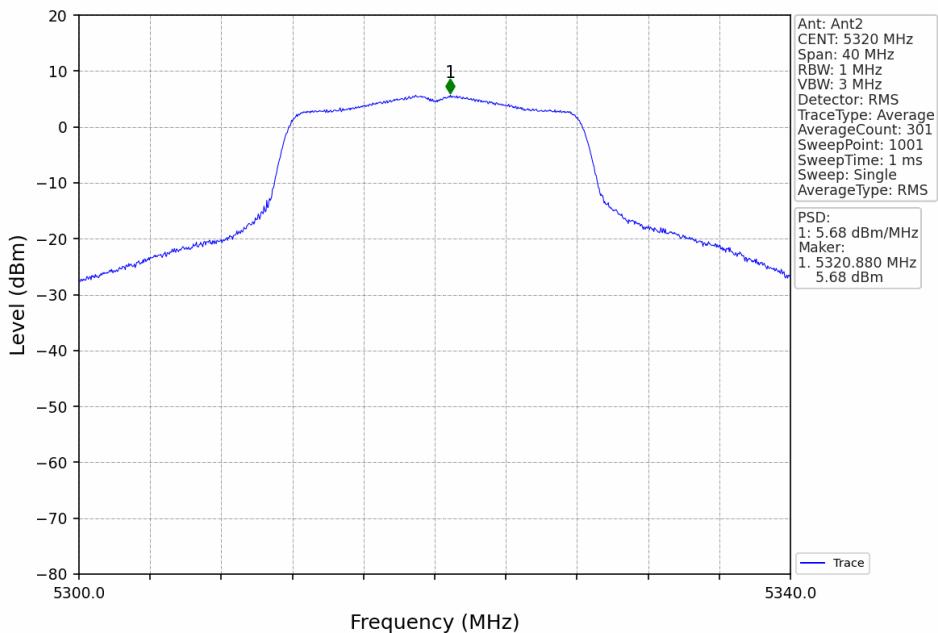
802.11a_MCH_5300MHz_Ant1_NTNV**802.11a_MCH_5300MHz_Ant2_NTNV**

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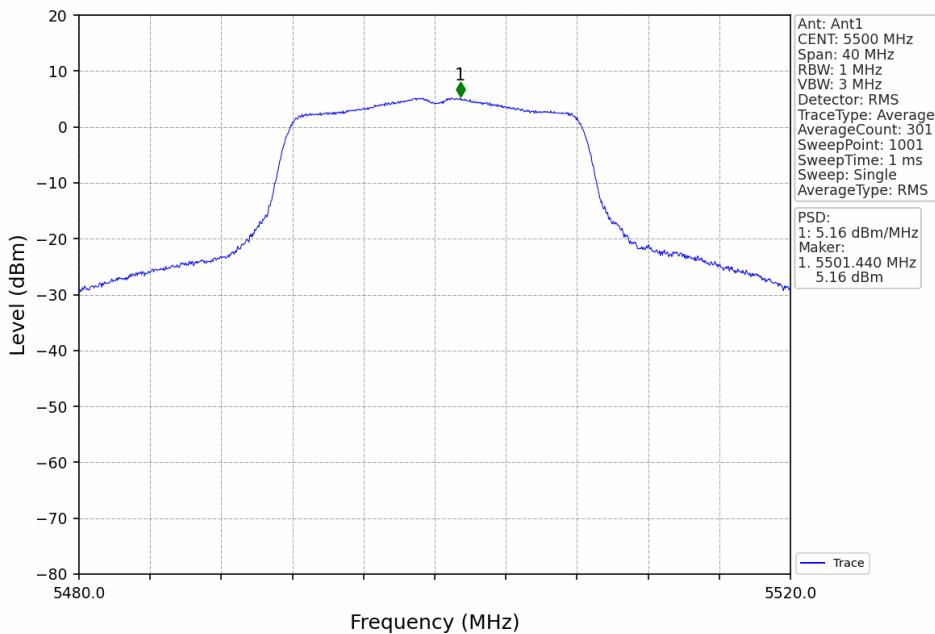
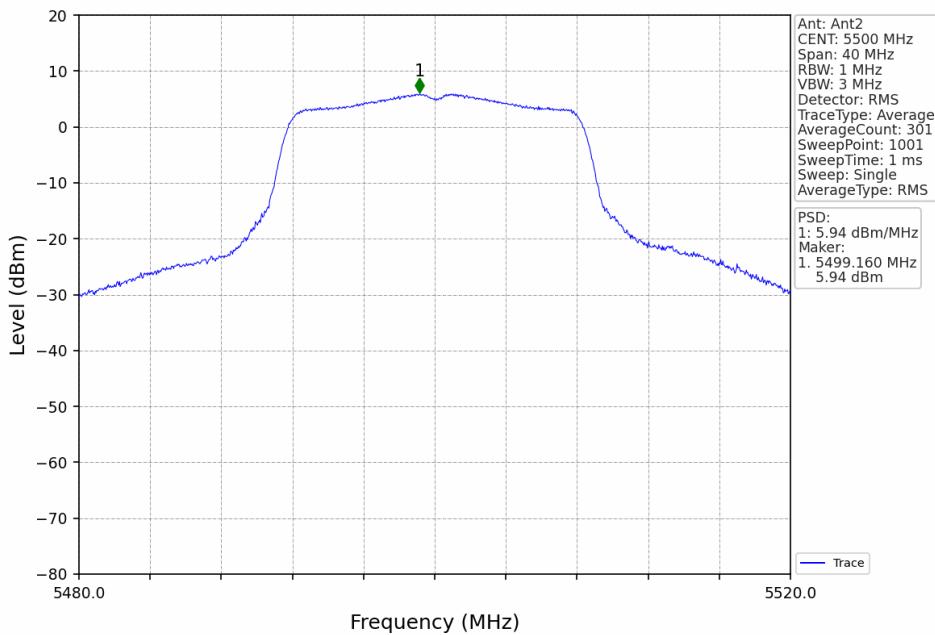
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802.11a_HCH_5320MHz_Ant1_NTNV**802.11a_HCH_5320MHz_Ant2_NTNV**

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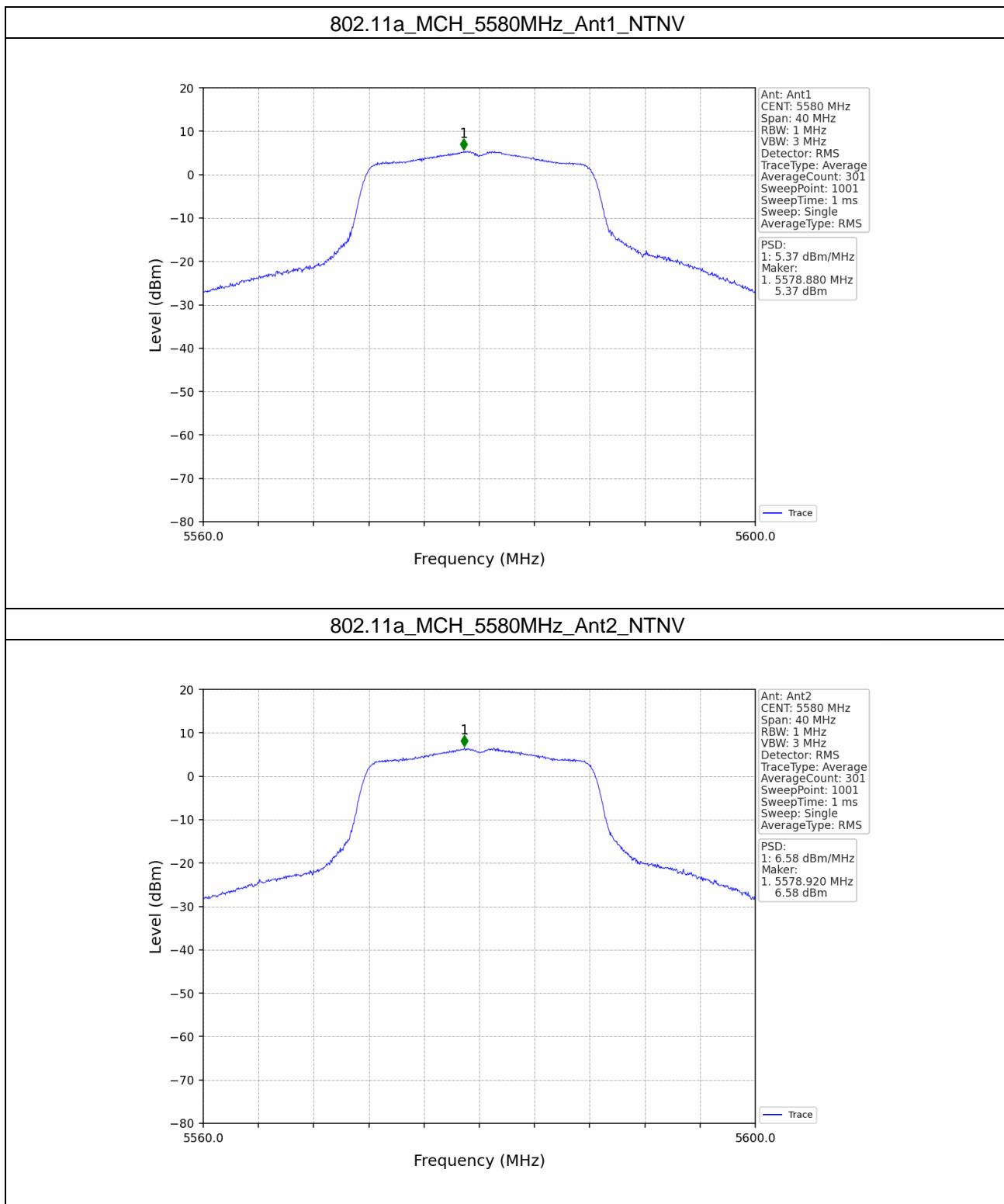
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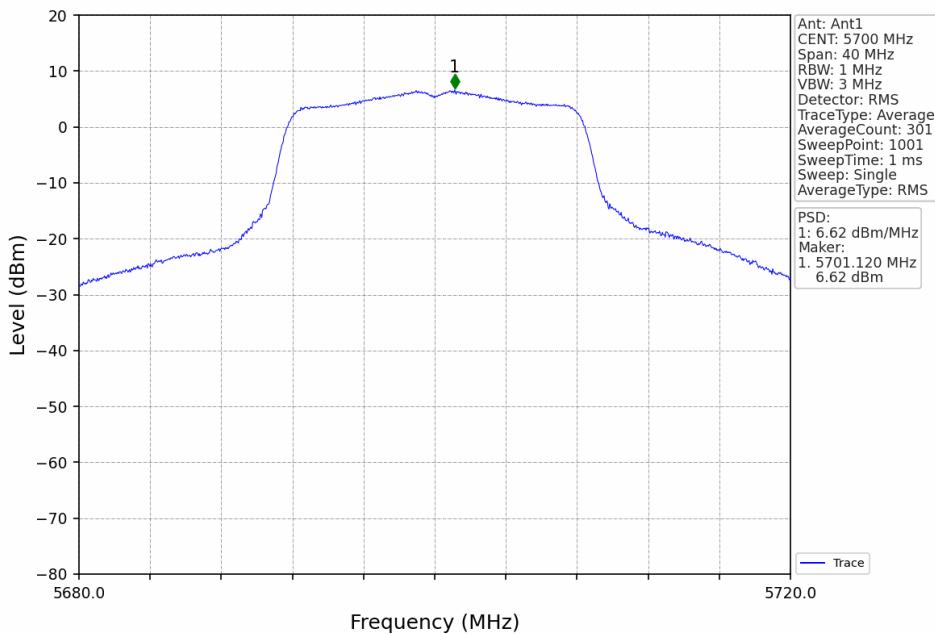
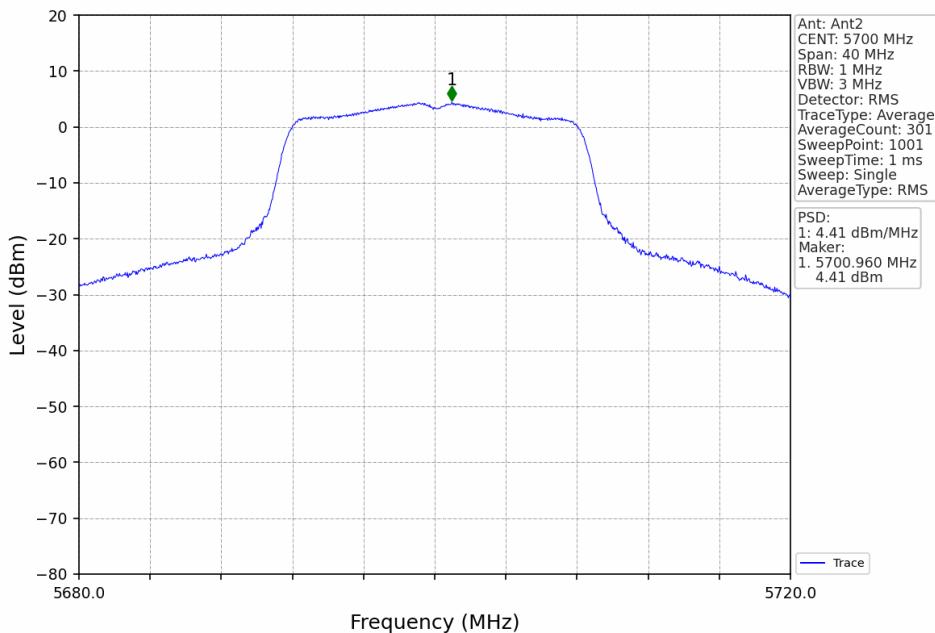
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802.11a_HCH_5700MHz_Ant1_NTNV**802.11a_HCH_5700MHz_Ant2_NTNV**

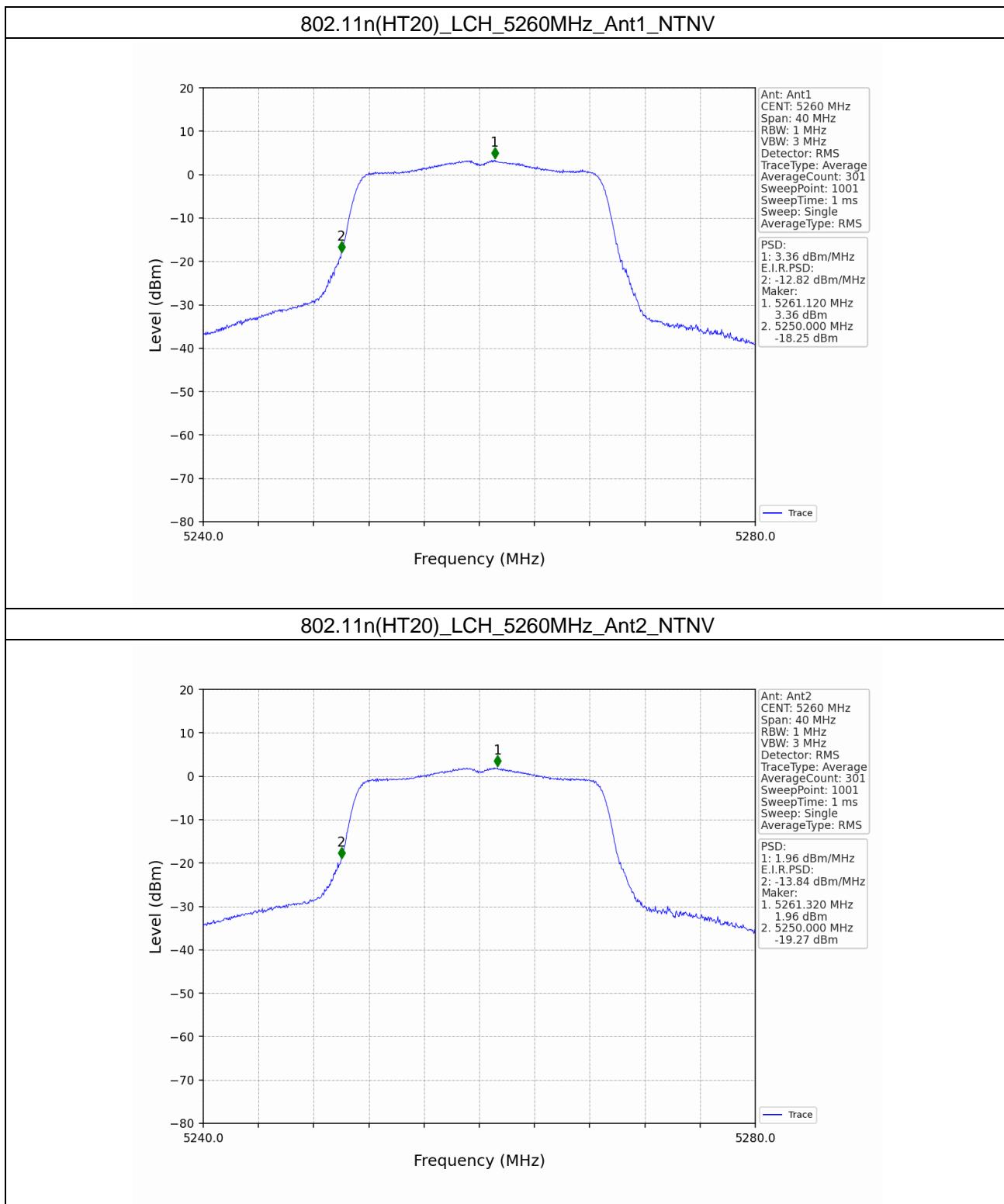
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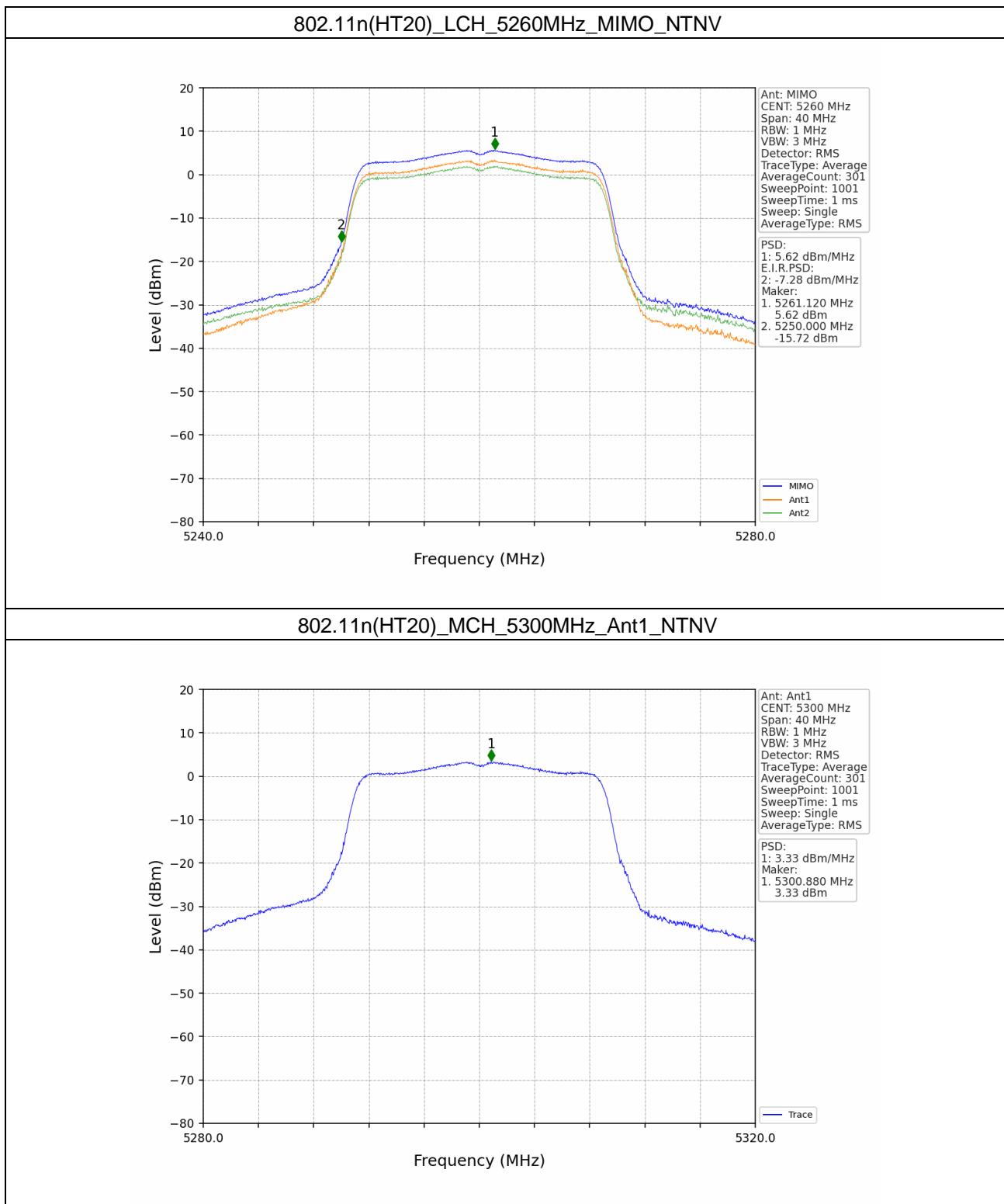
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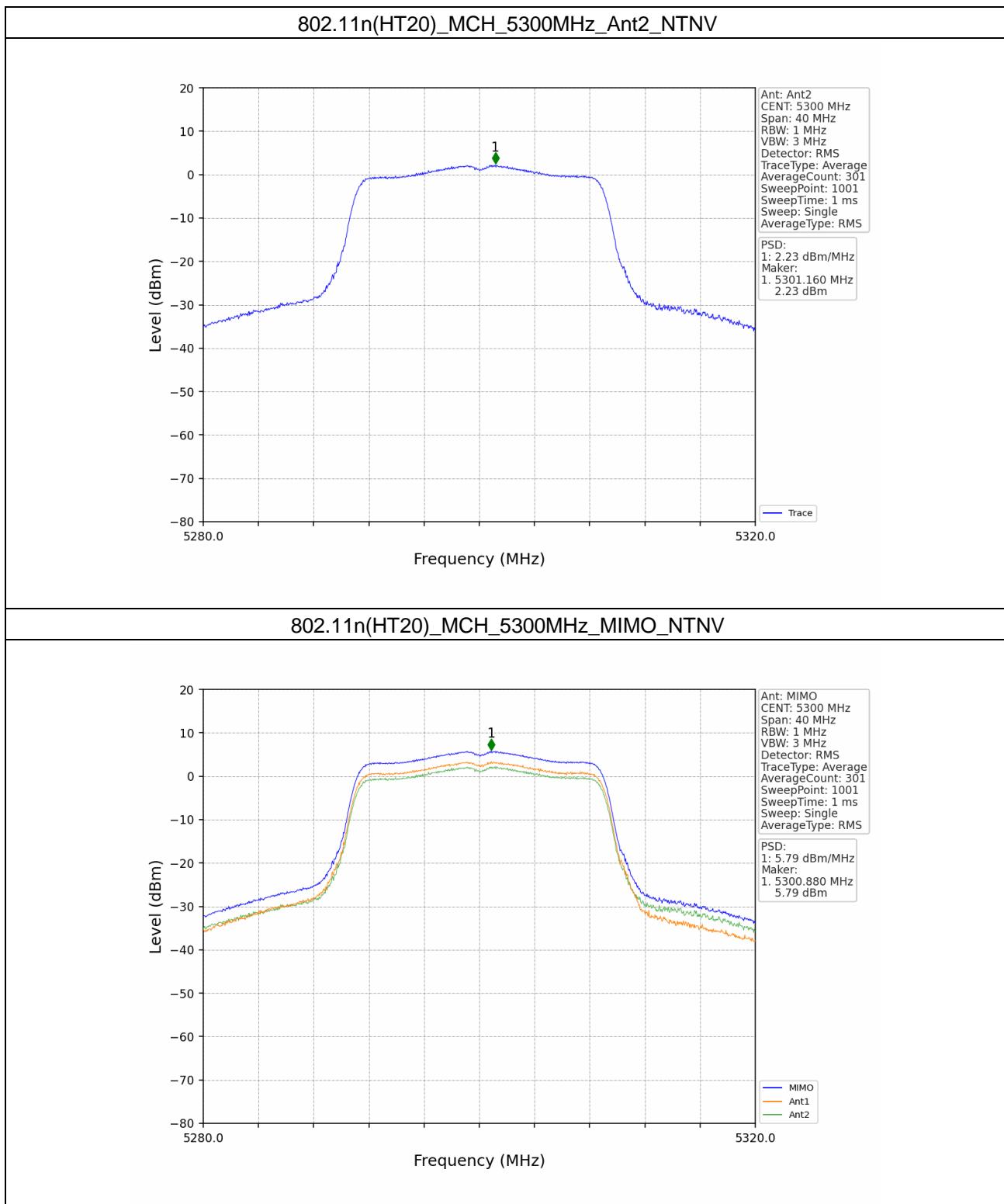
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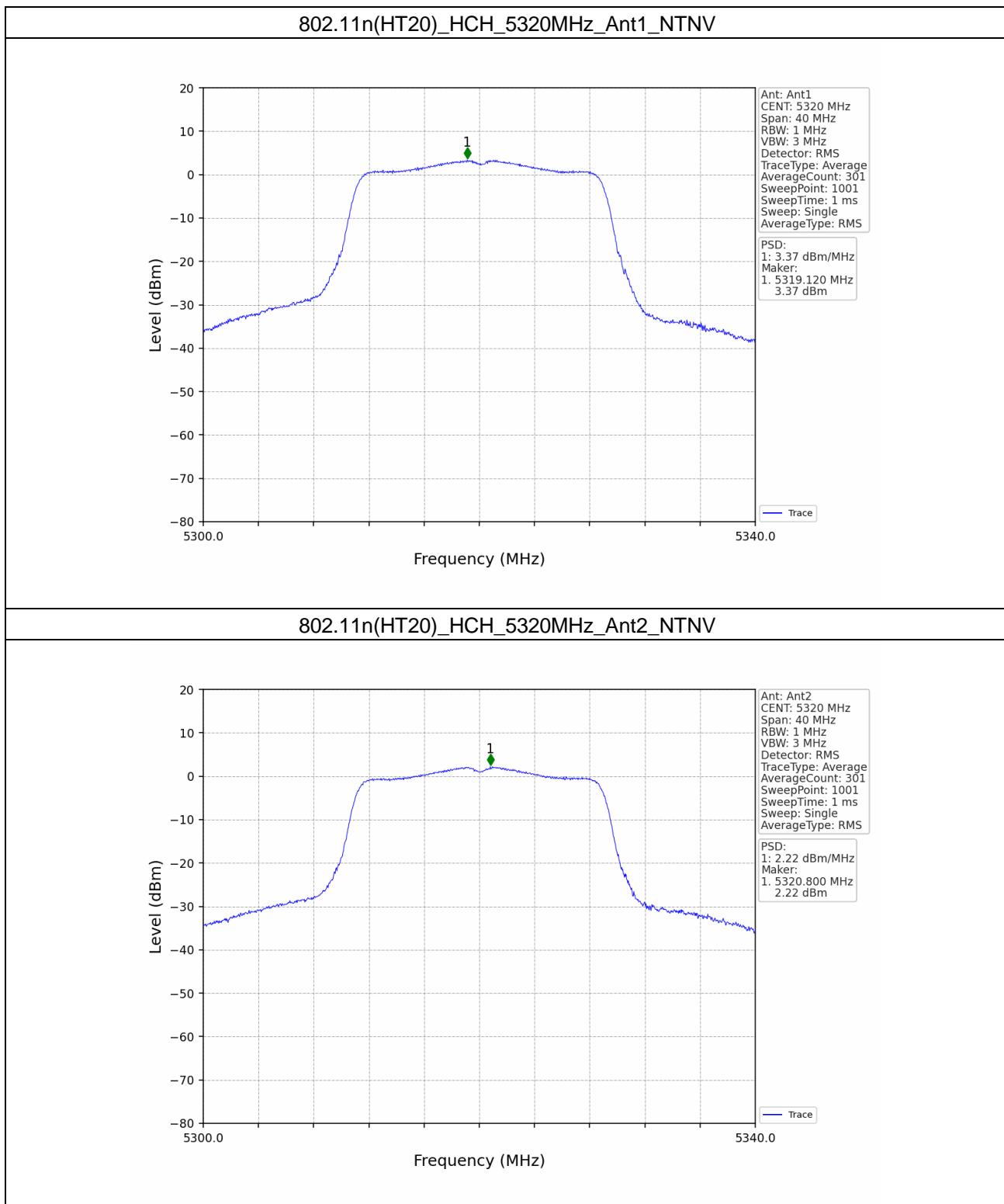


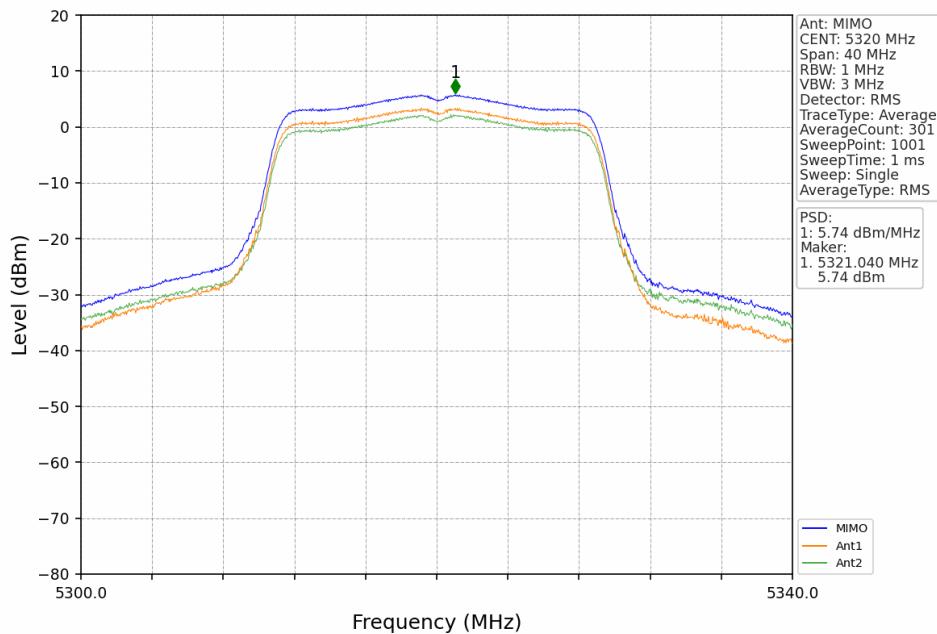
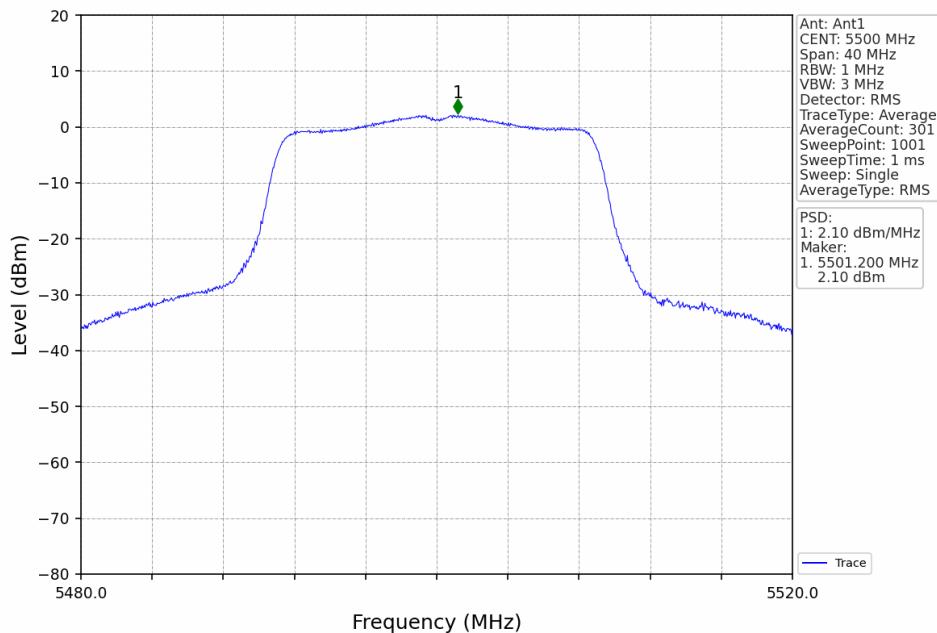
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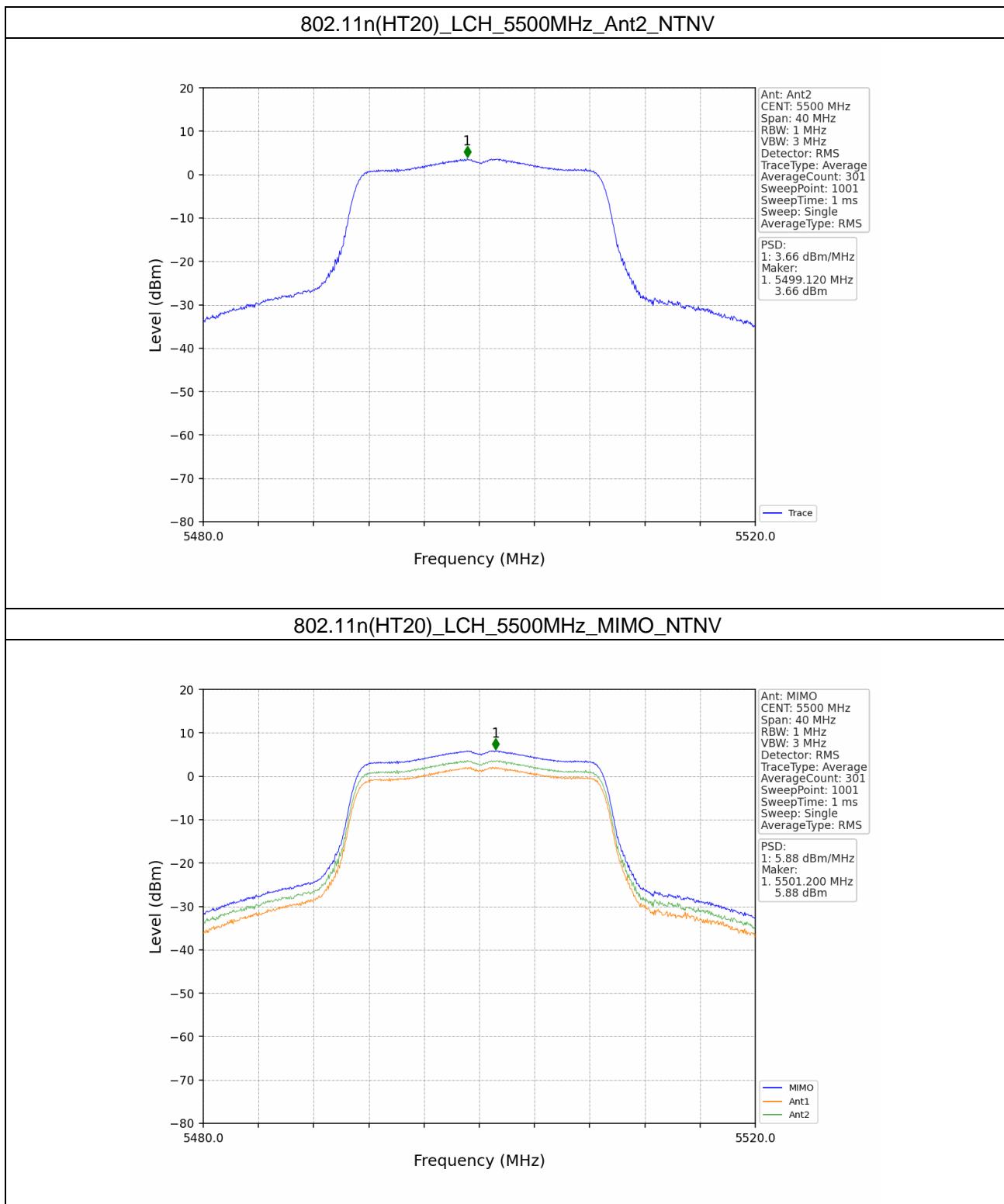




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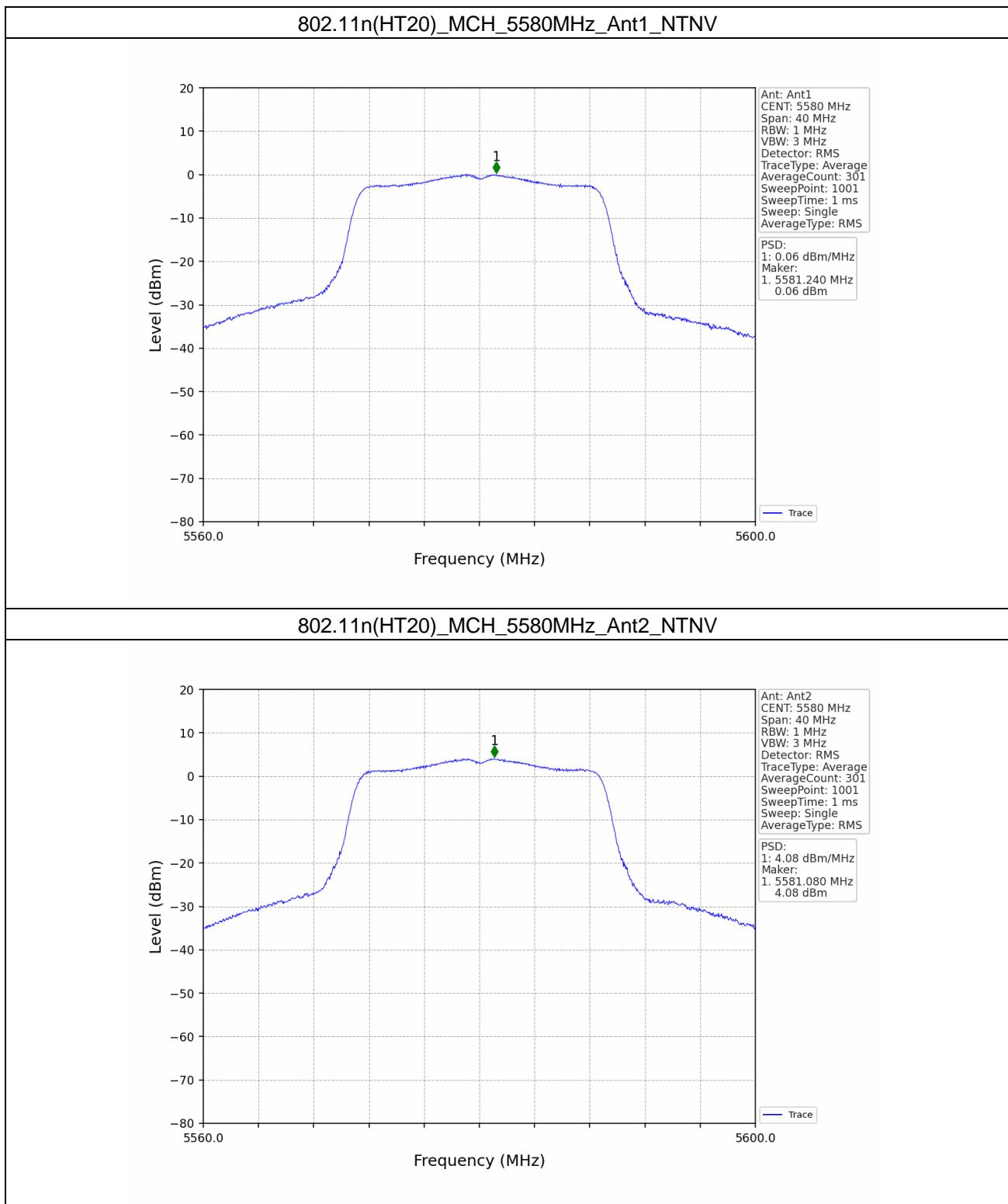
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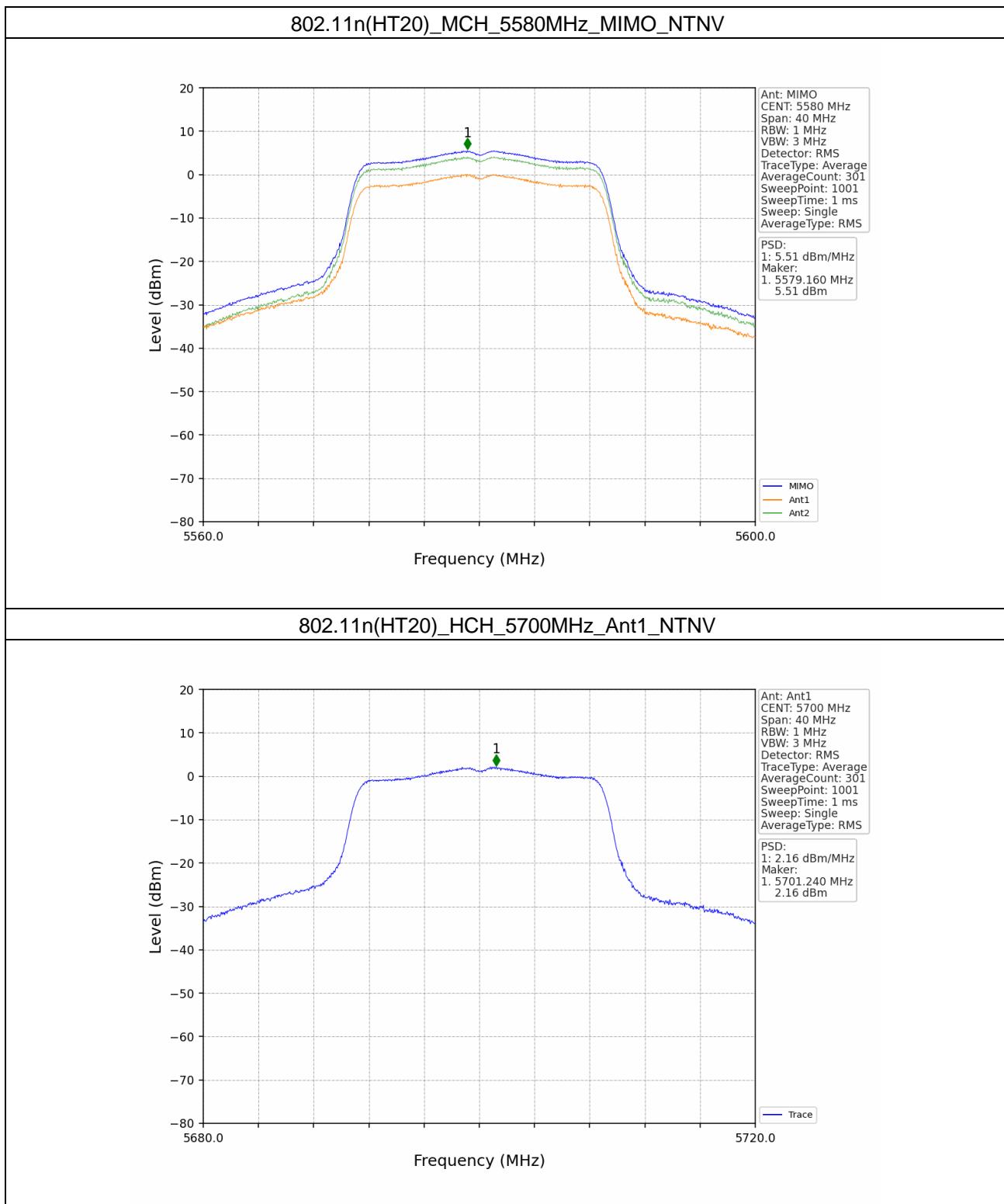
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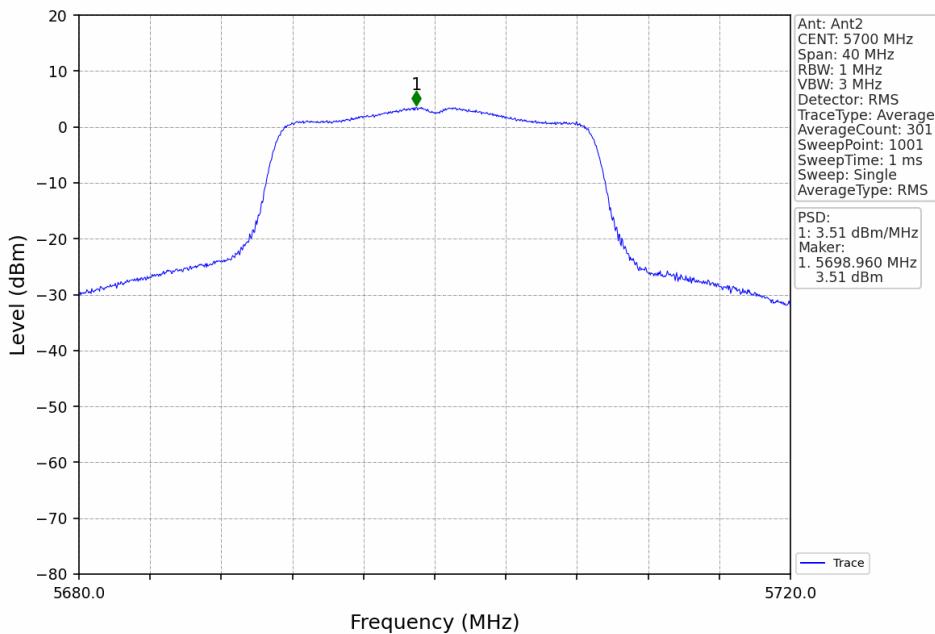
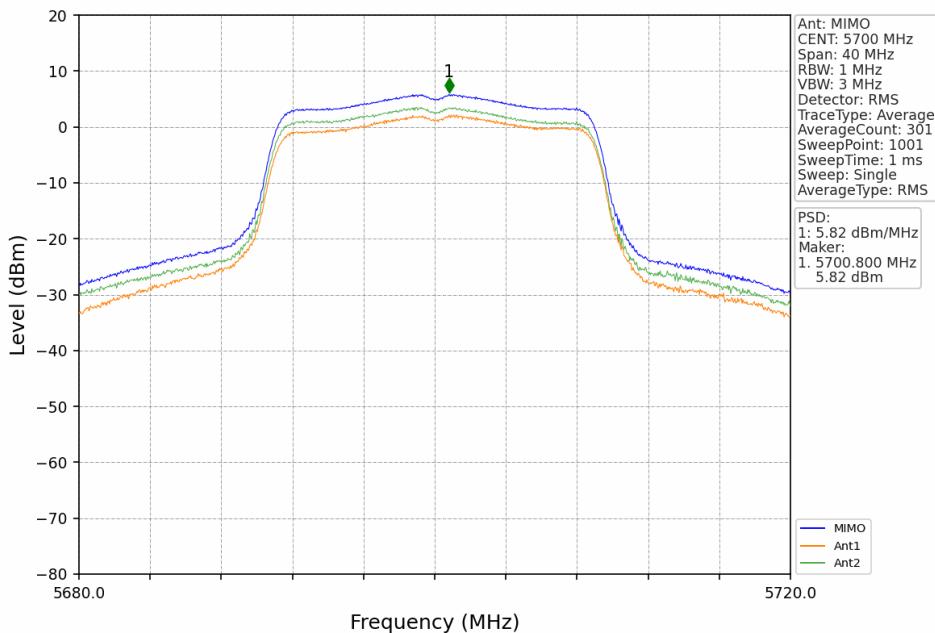
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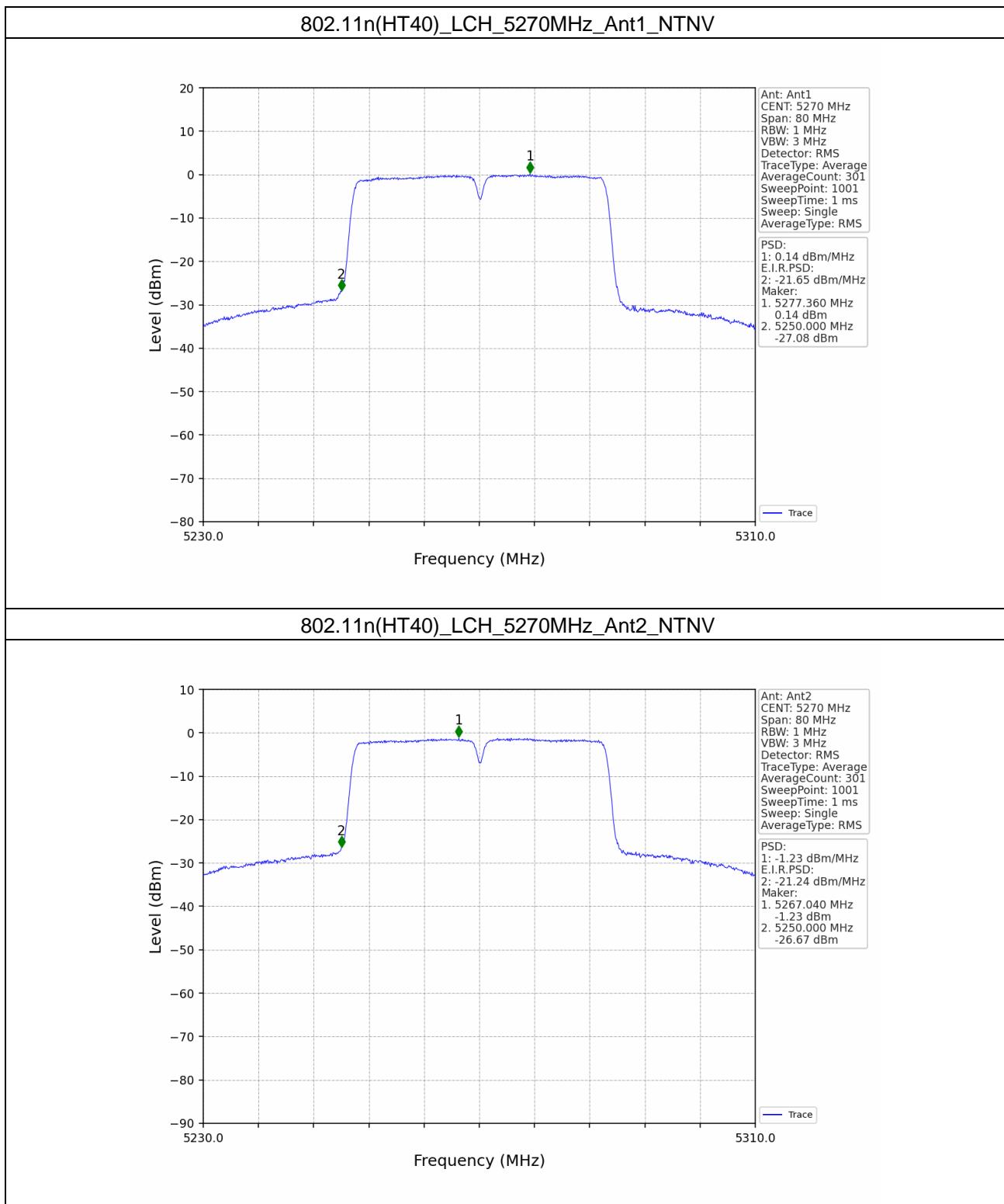
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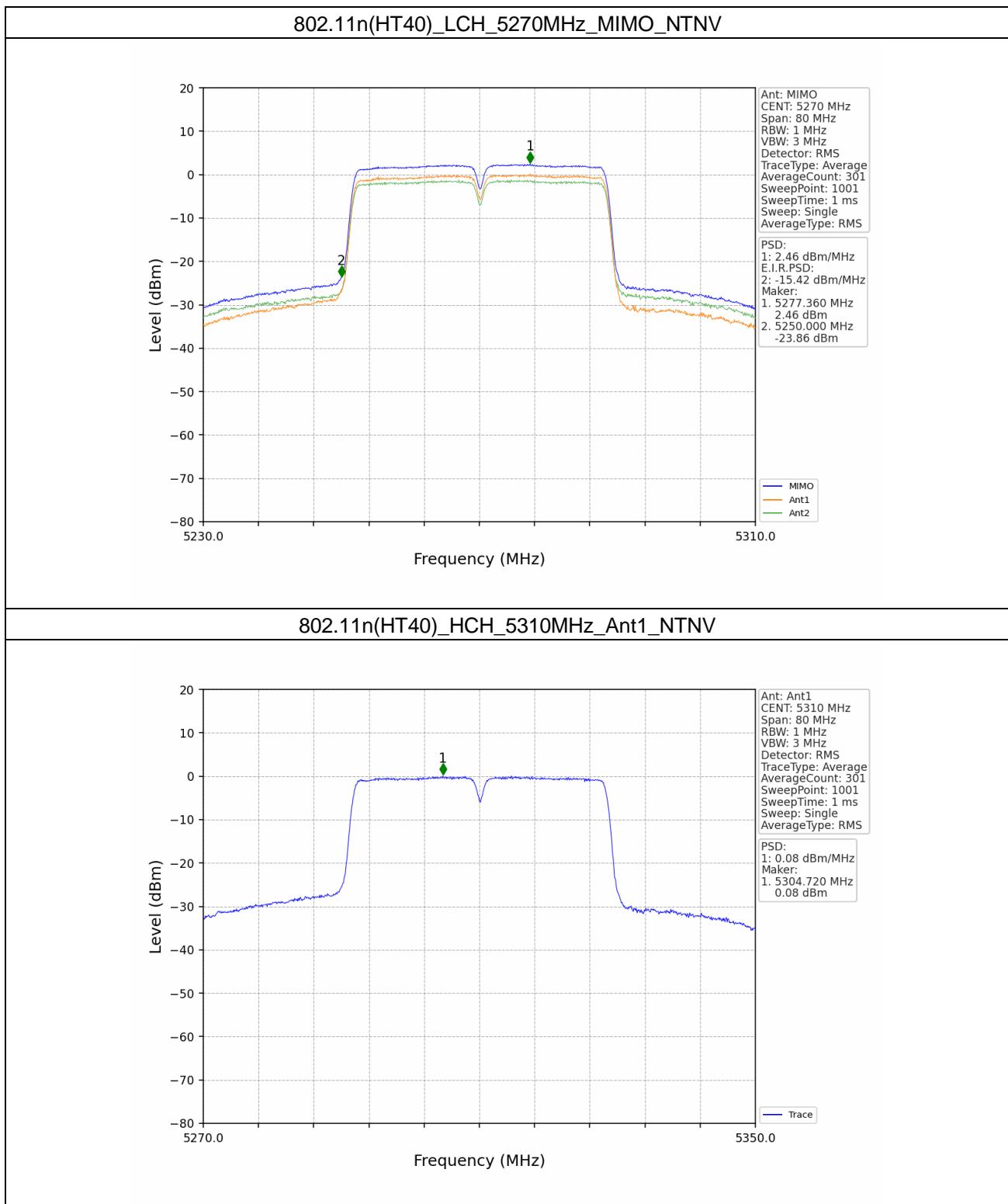
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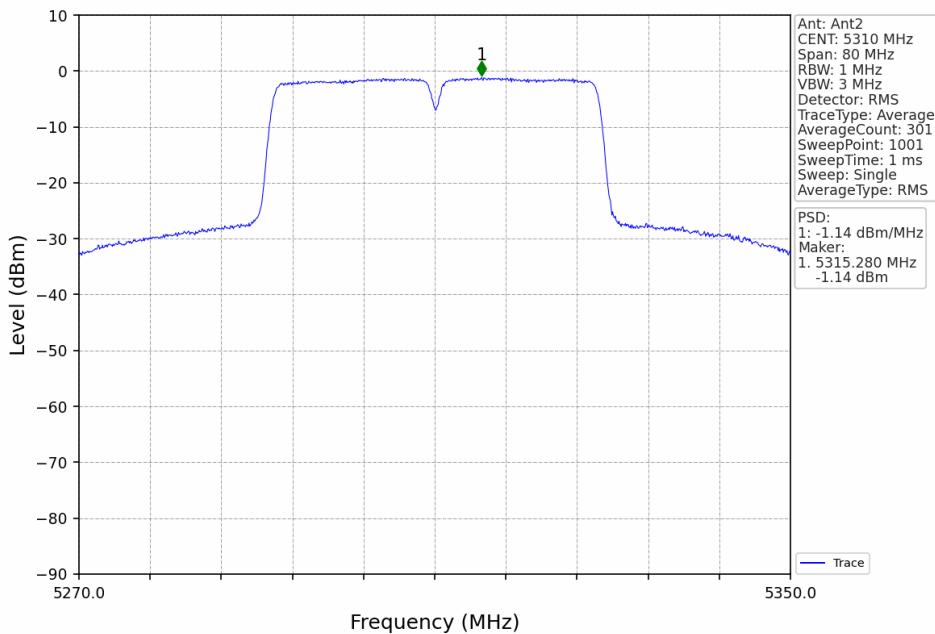
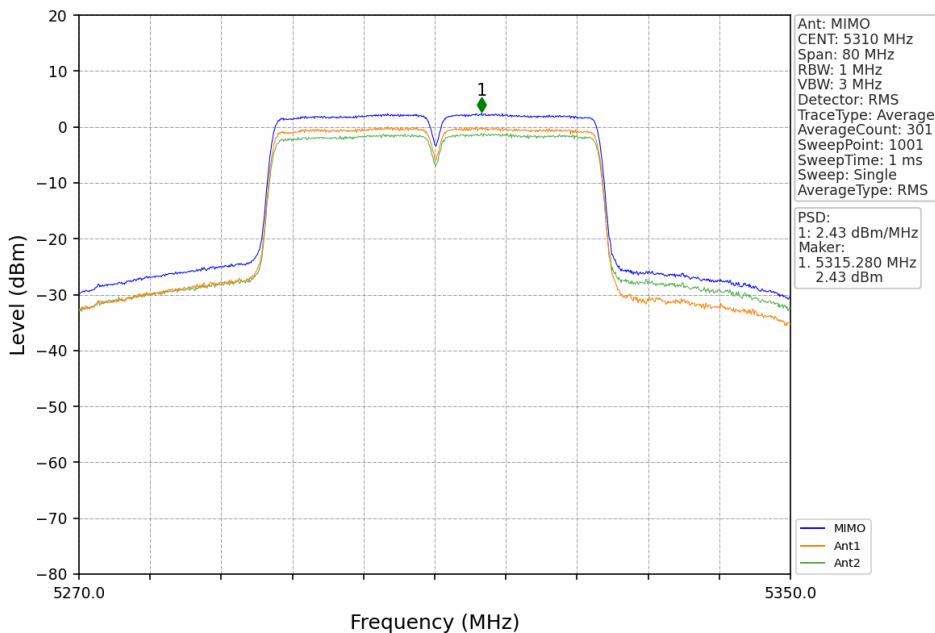
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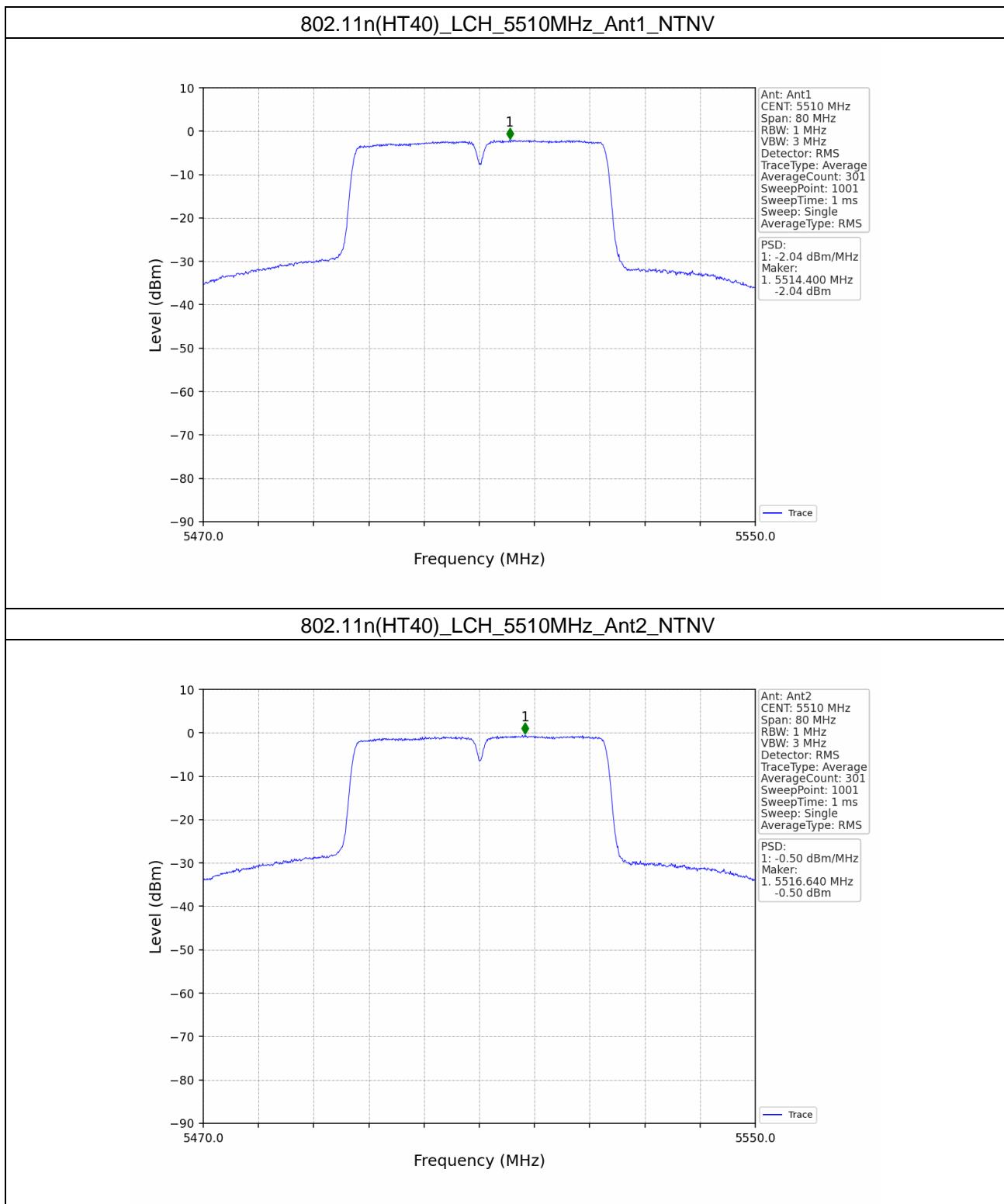
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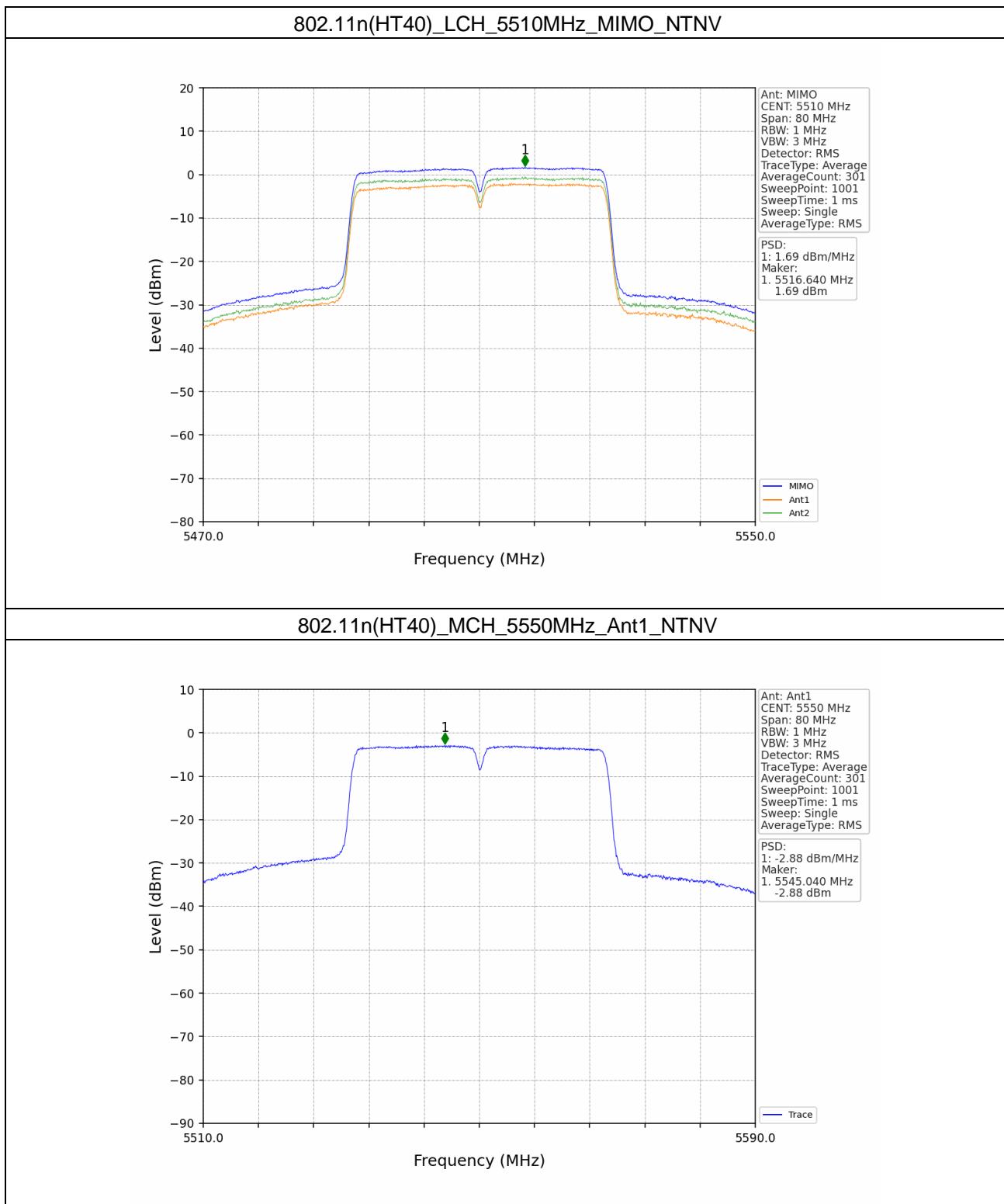
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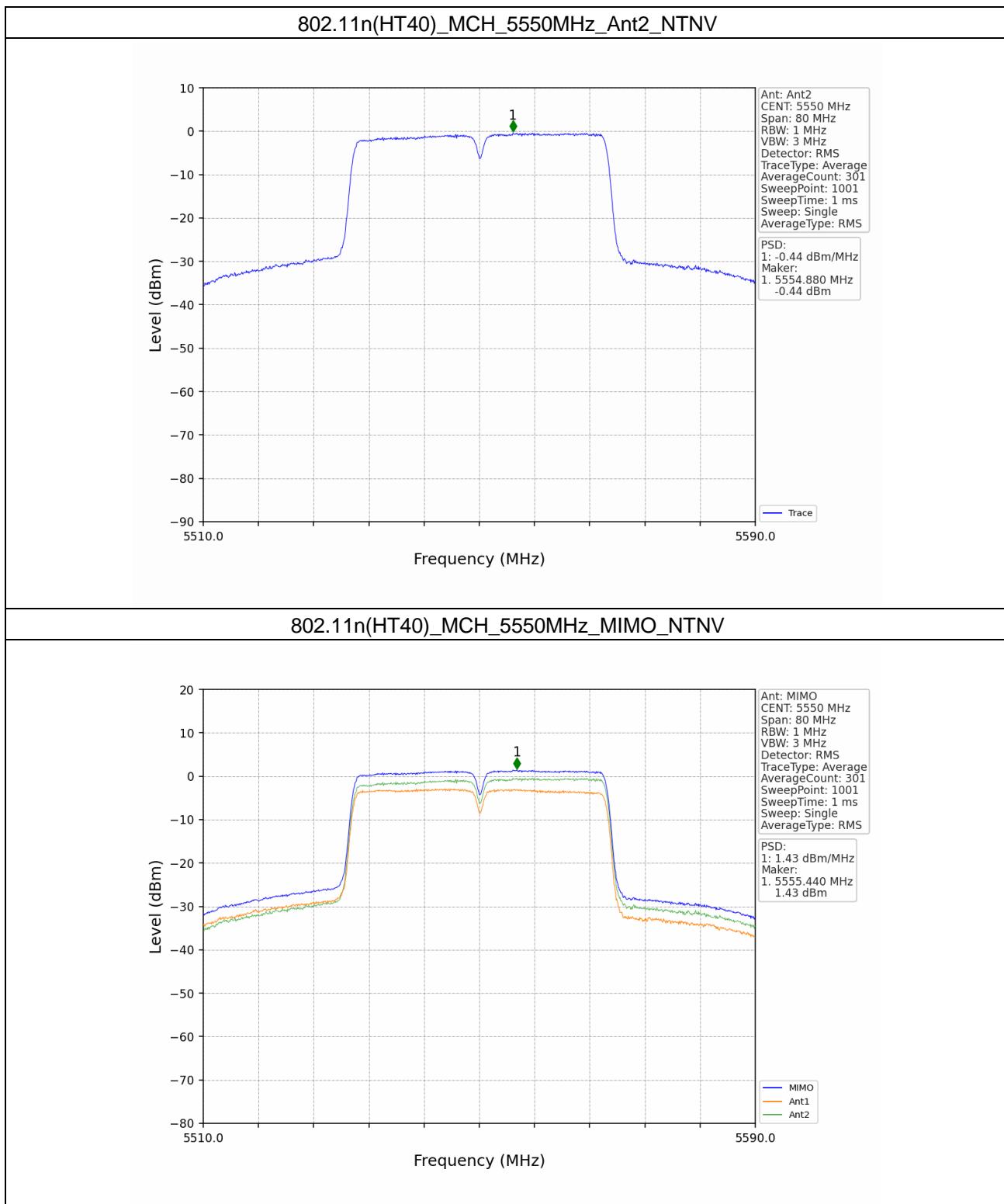


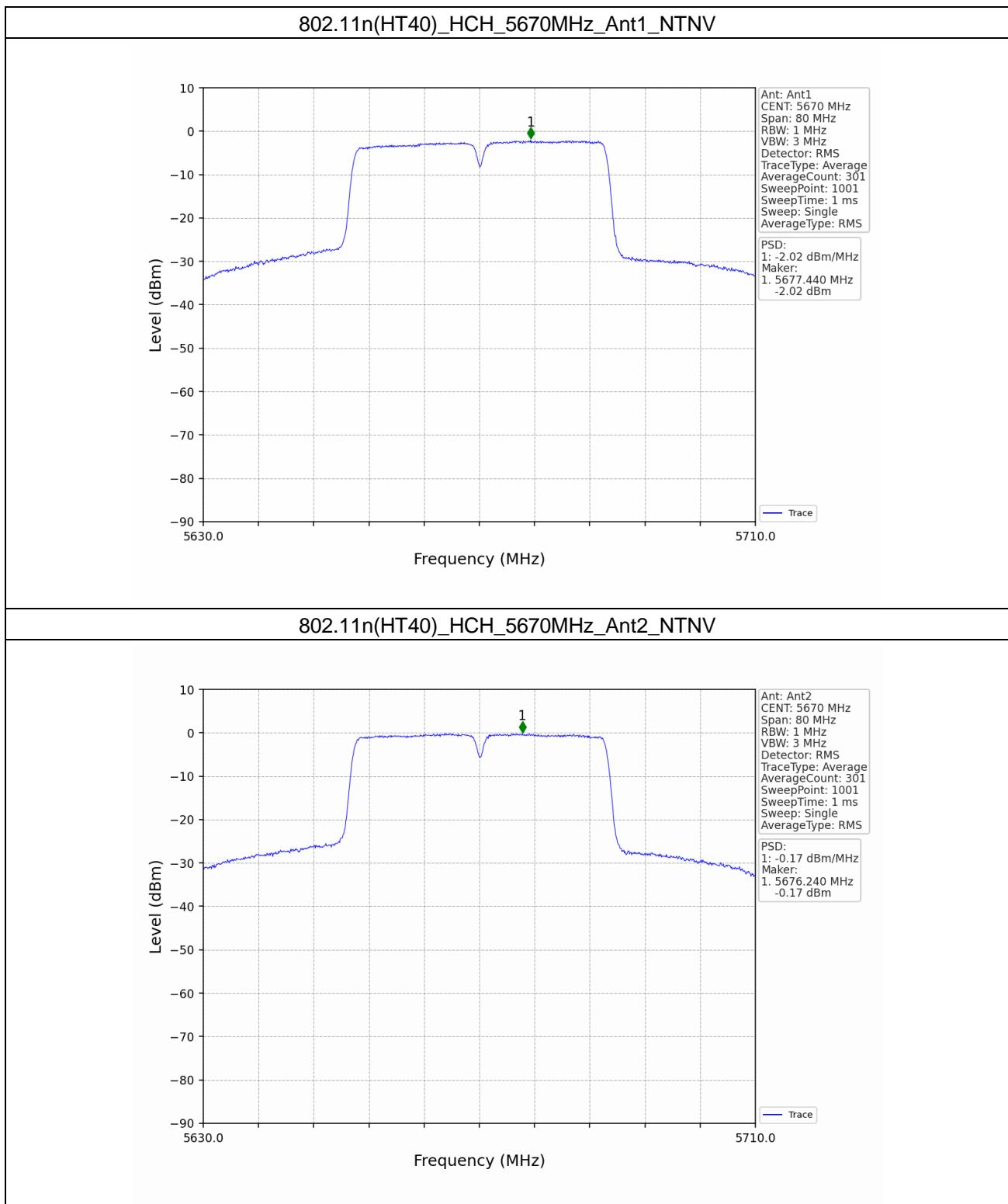


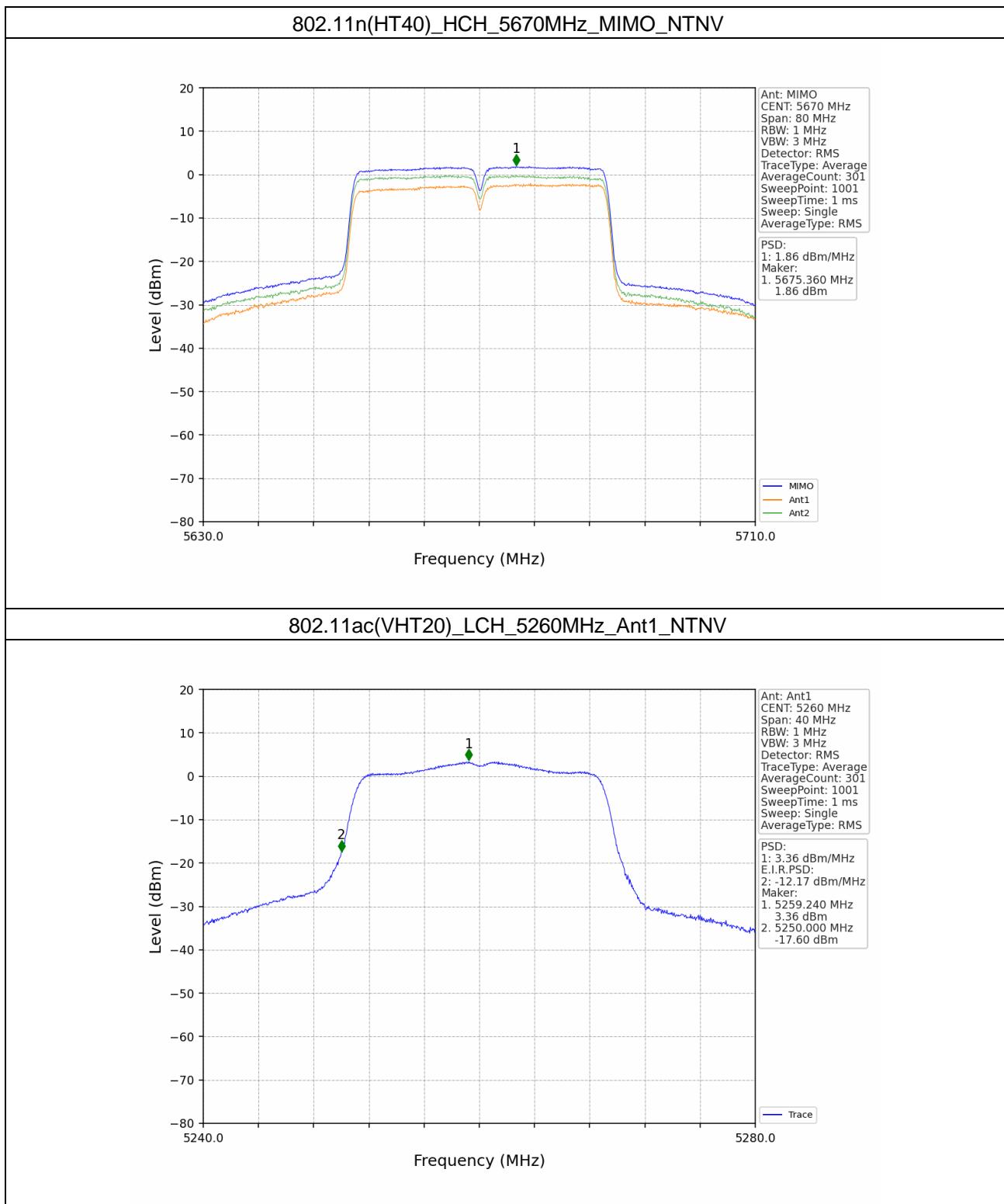
802.11n(HT40)_HCH_5310MHz_Ant2_NTNV**802.11n(HT40)_HCH_5310MHz_MIMO_NTNV**

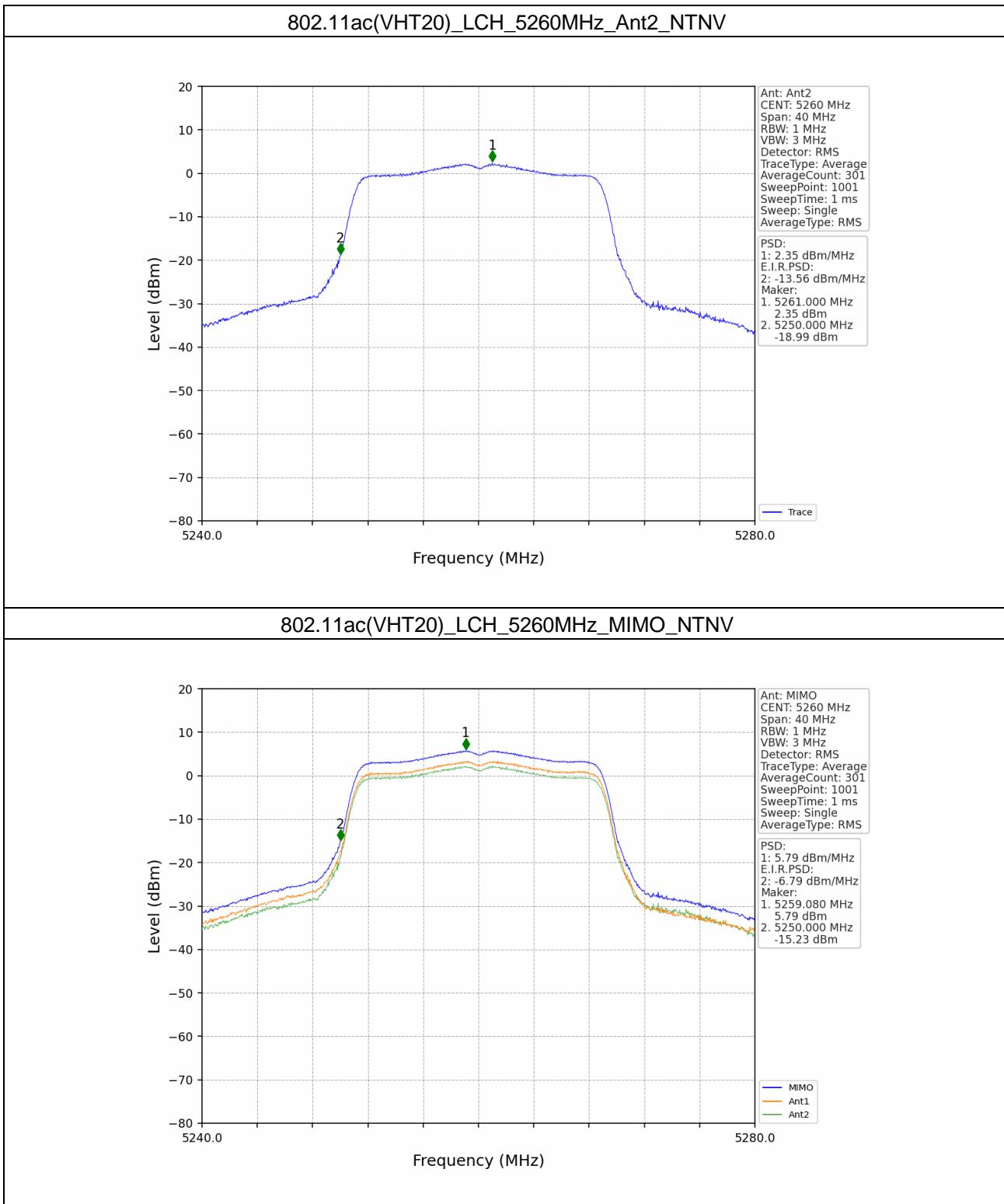






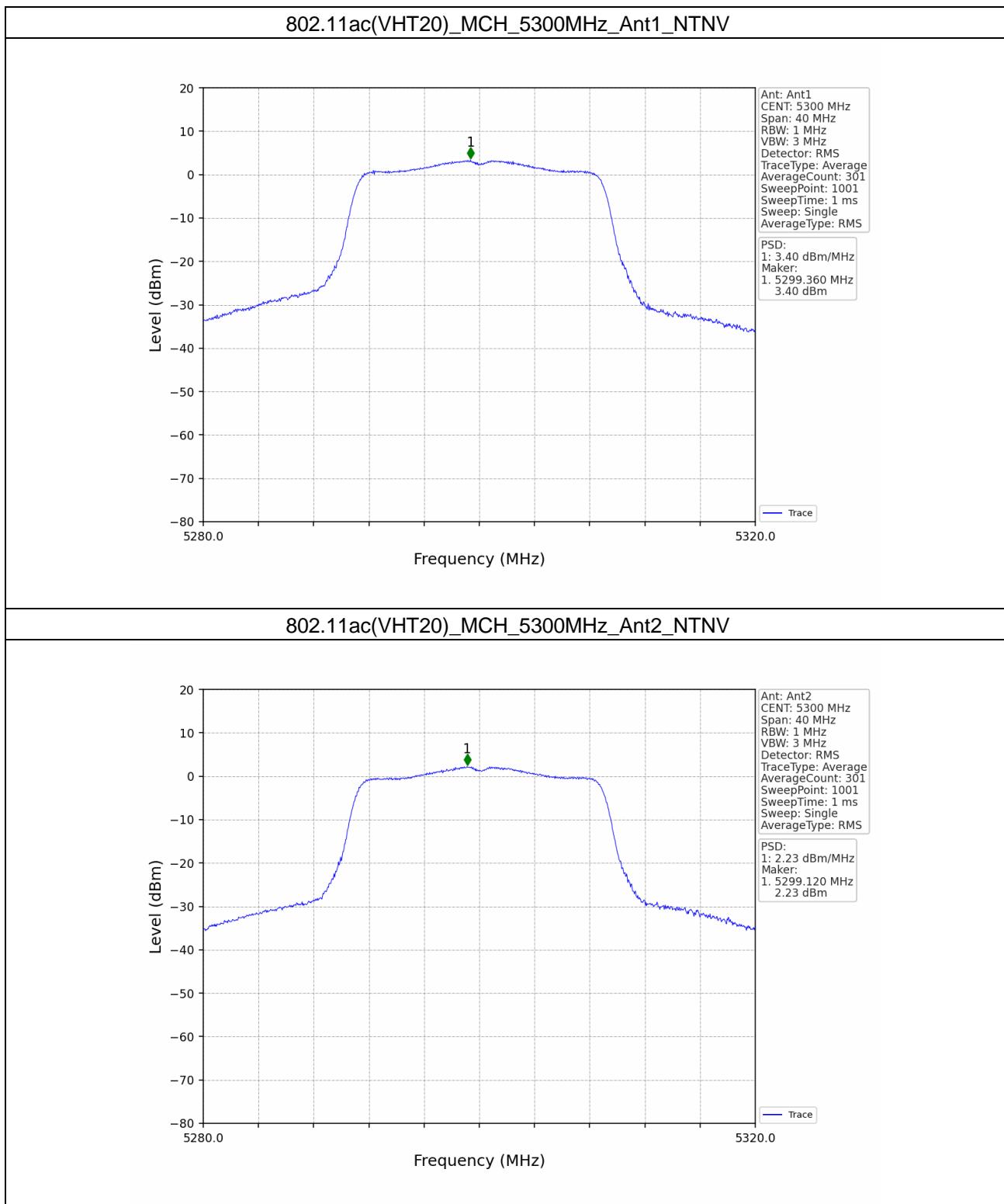






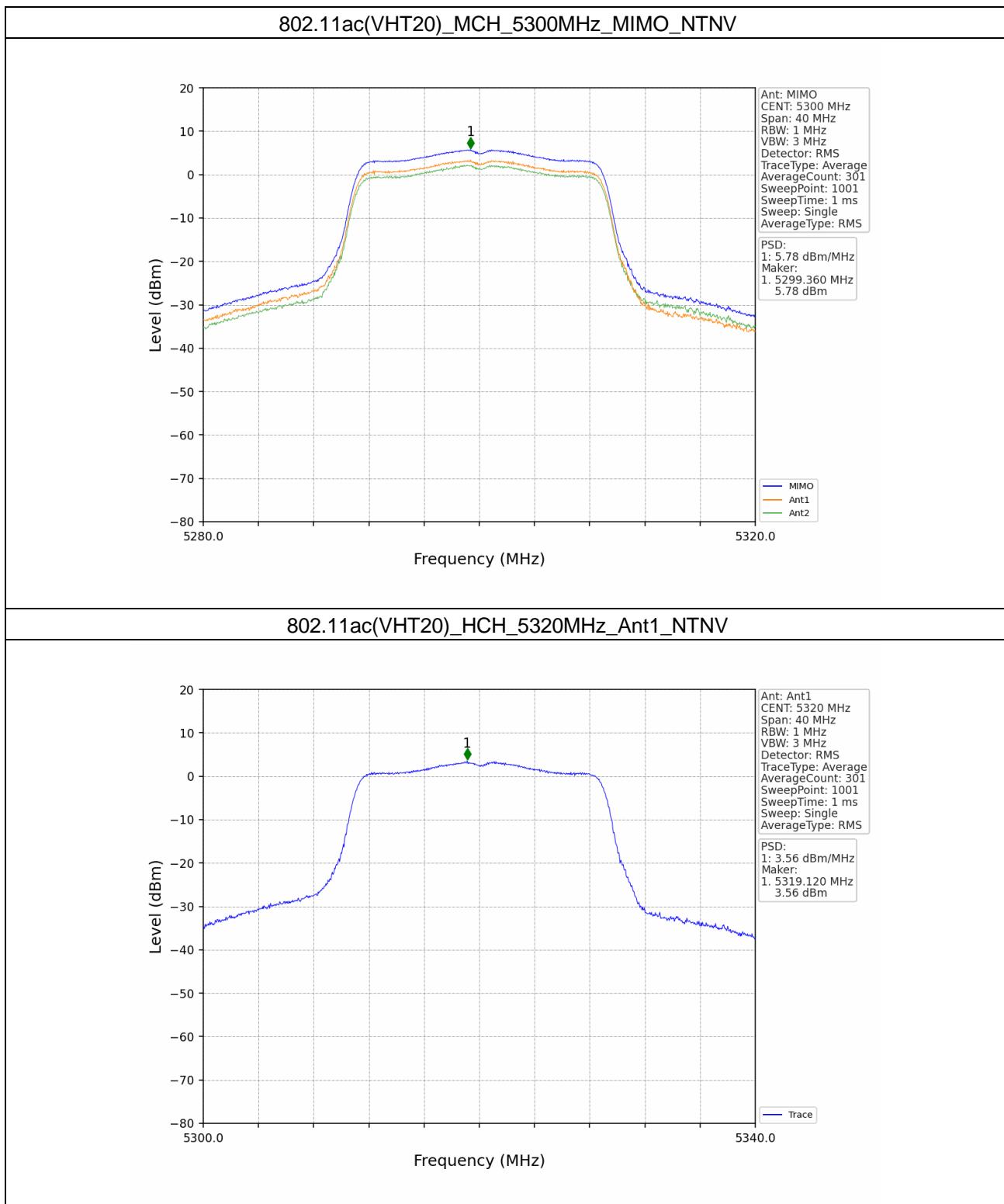
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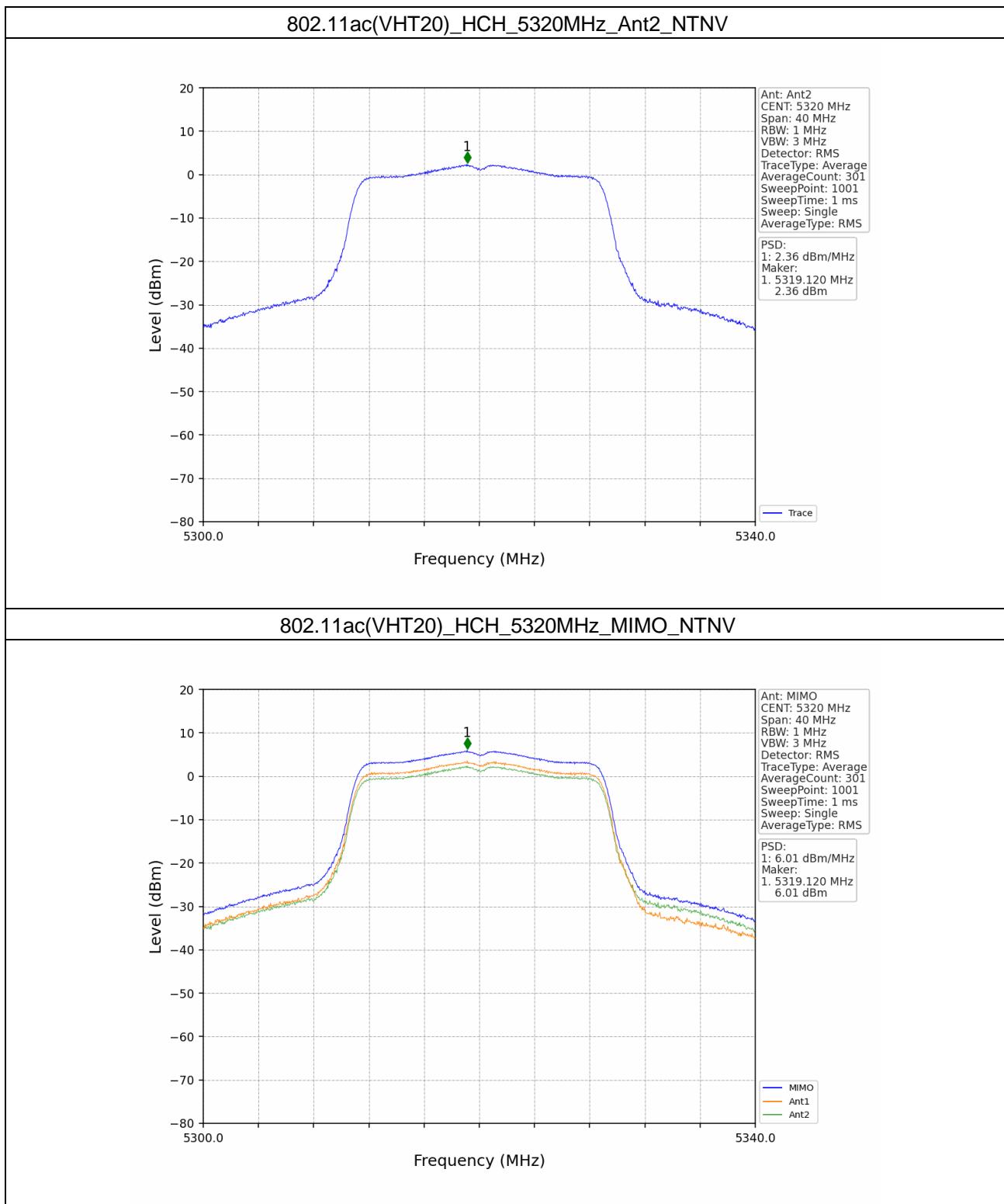
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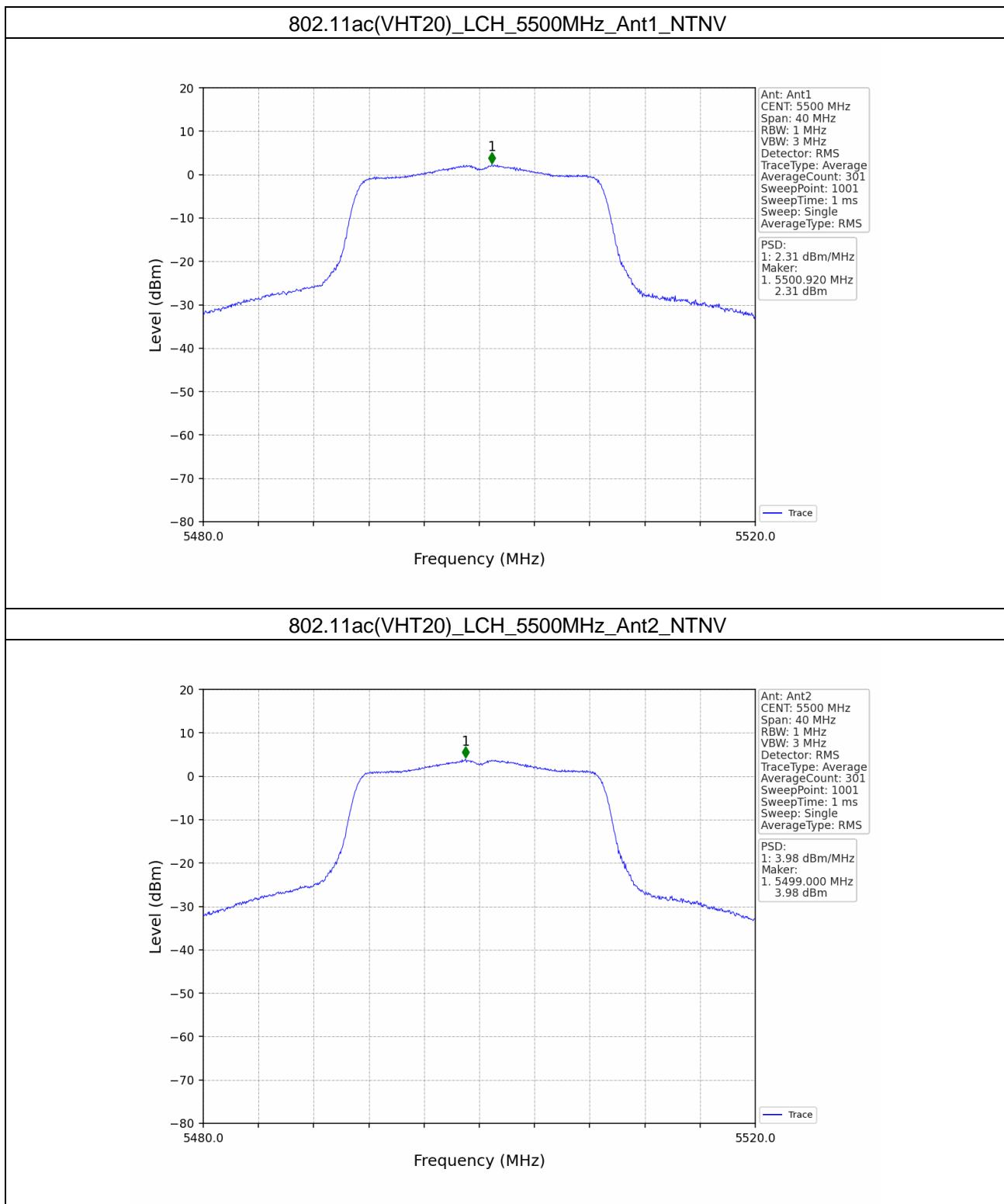


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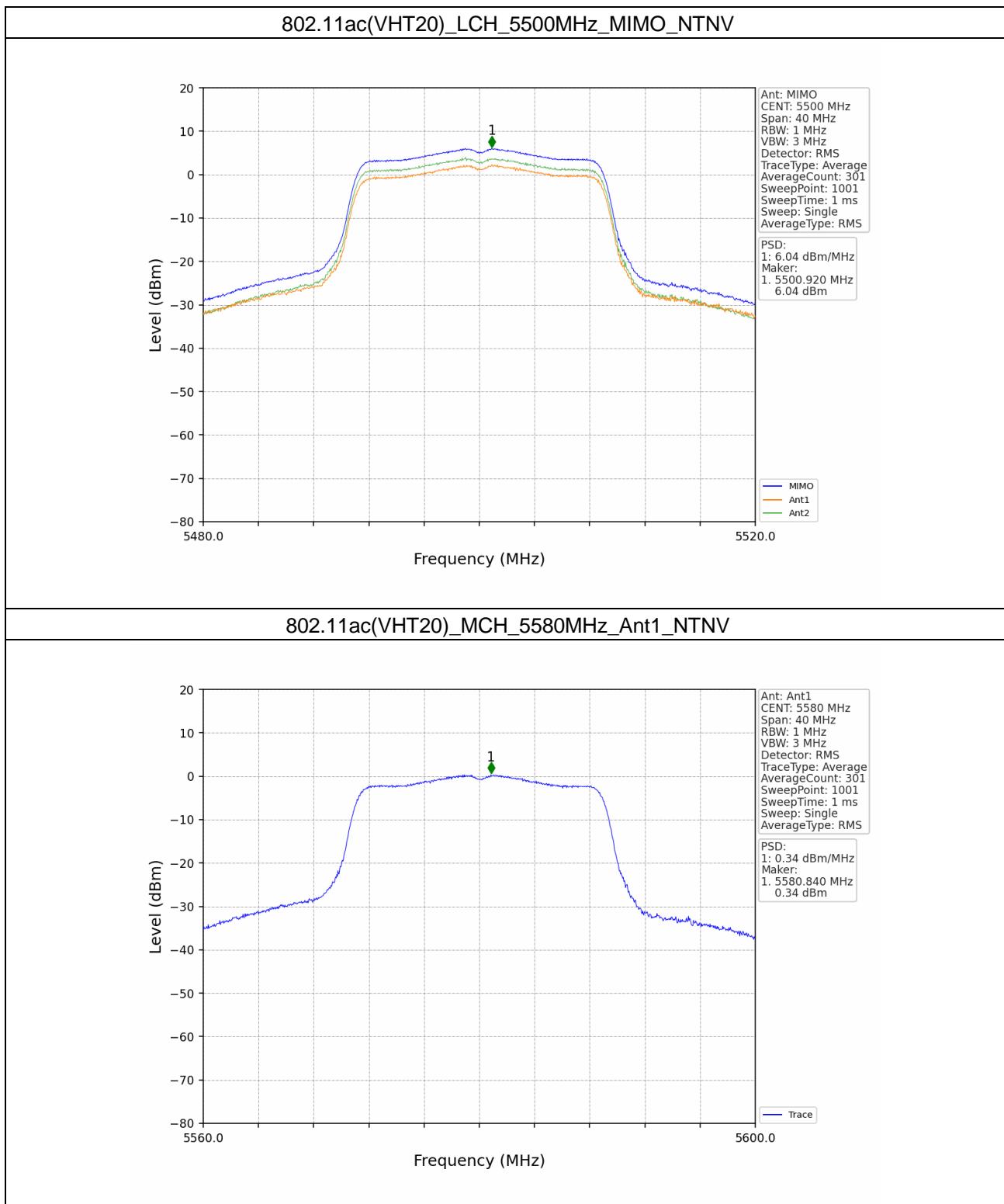


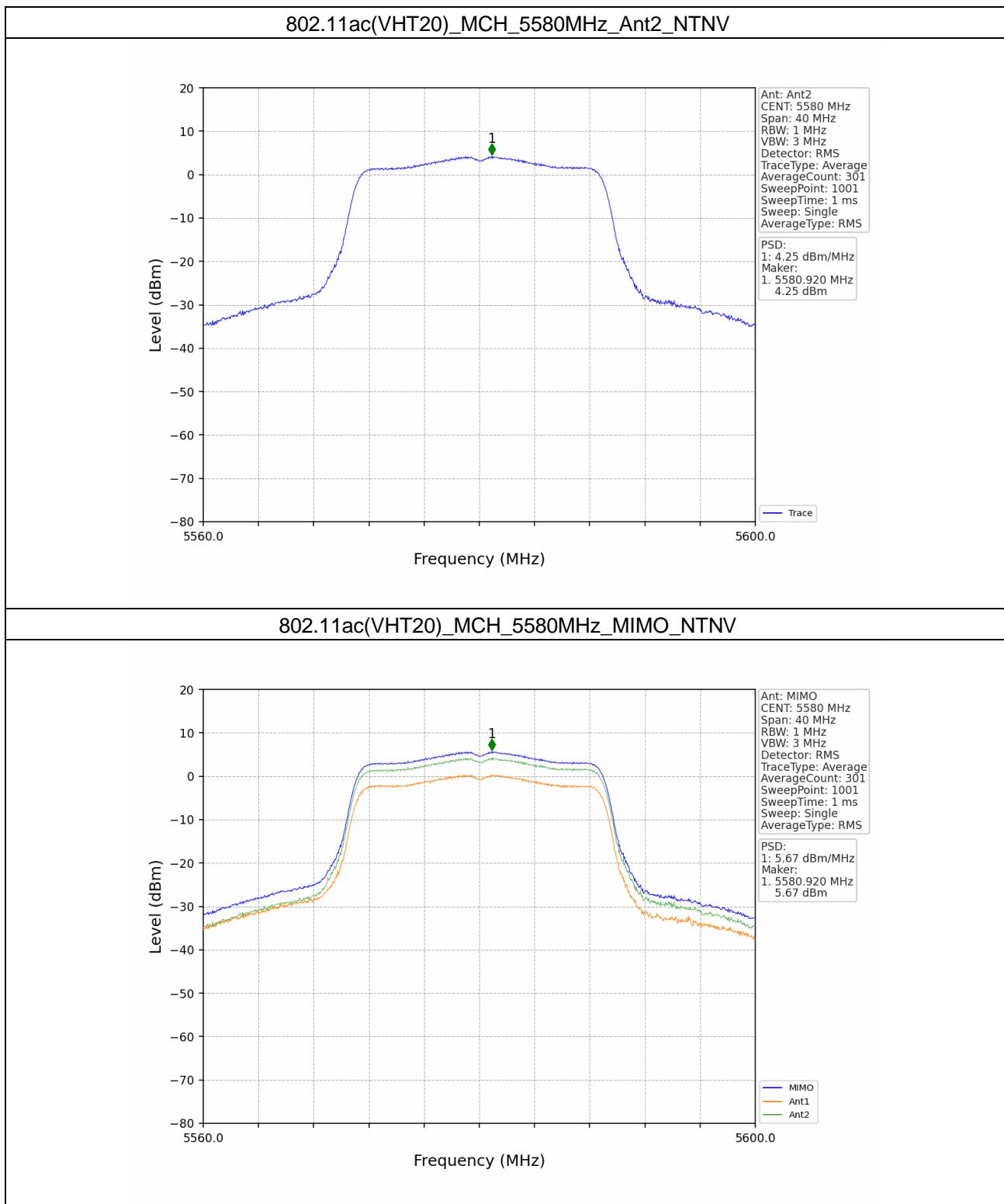


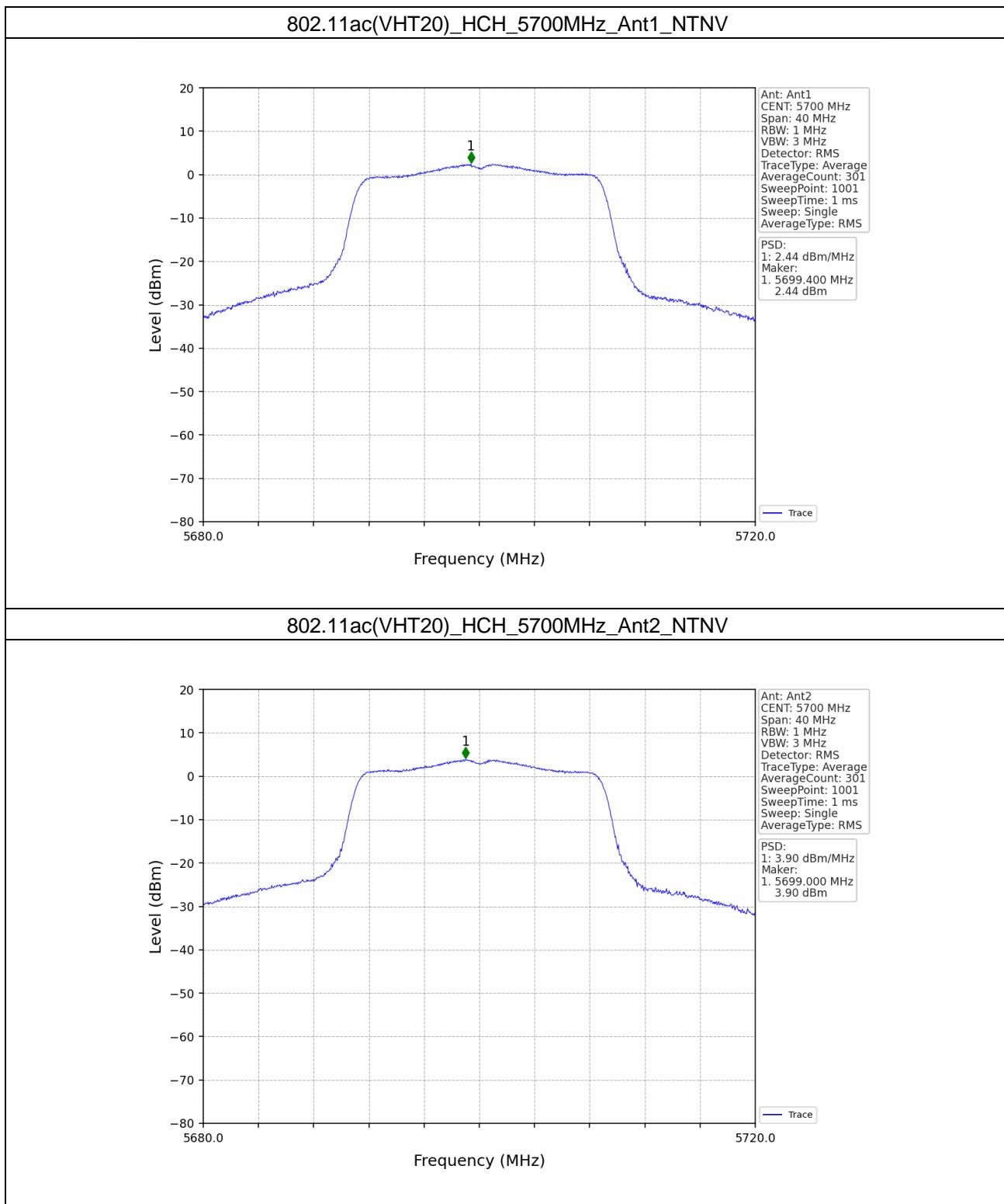


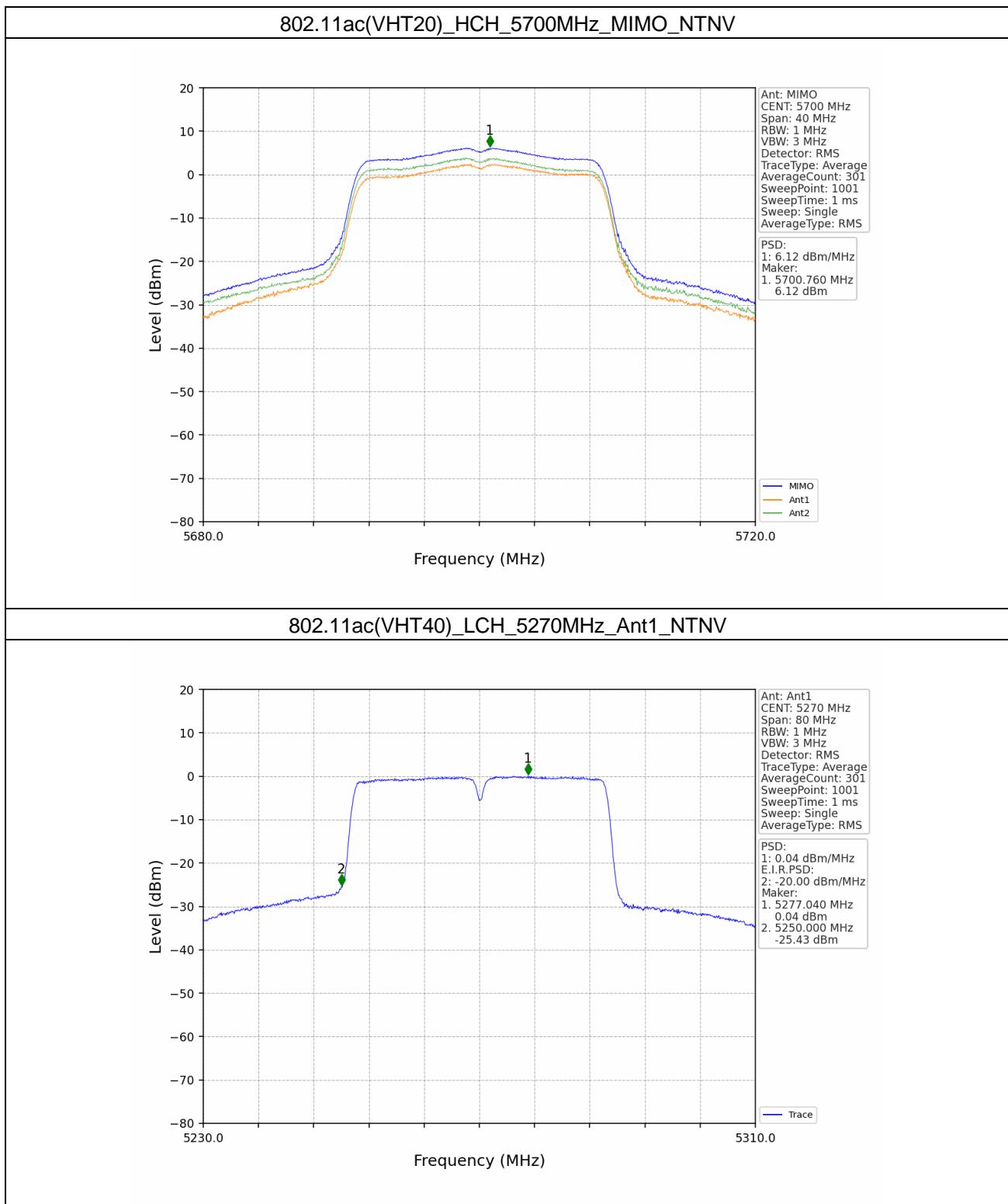
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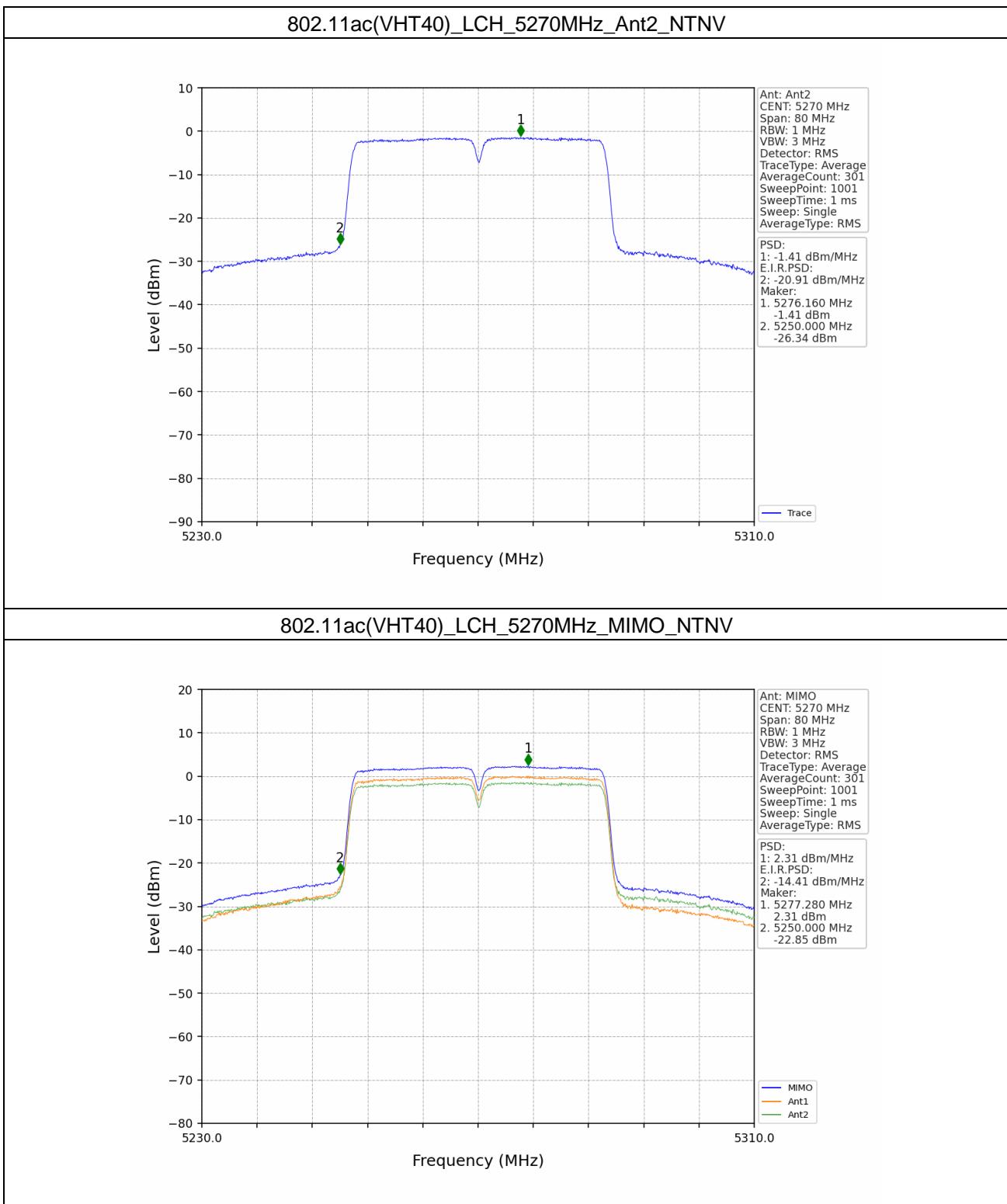
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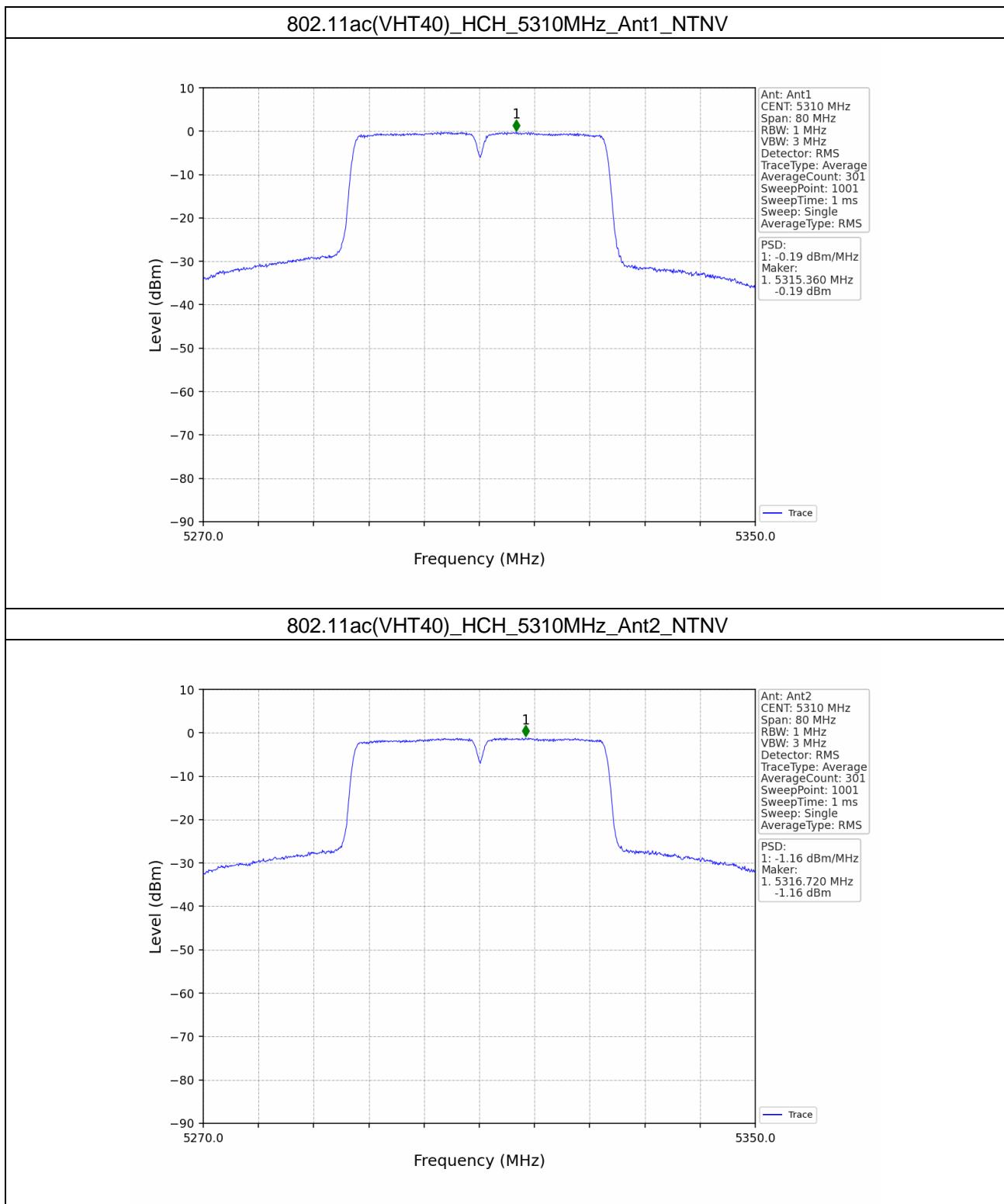


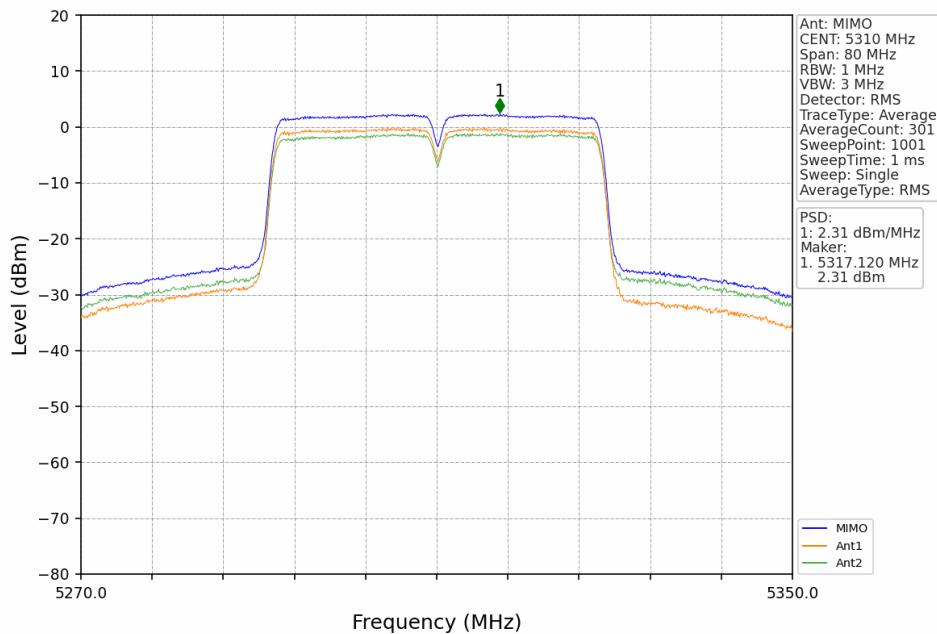
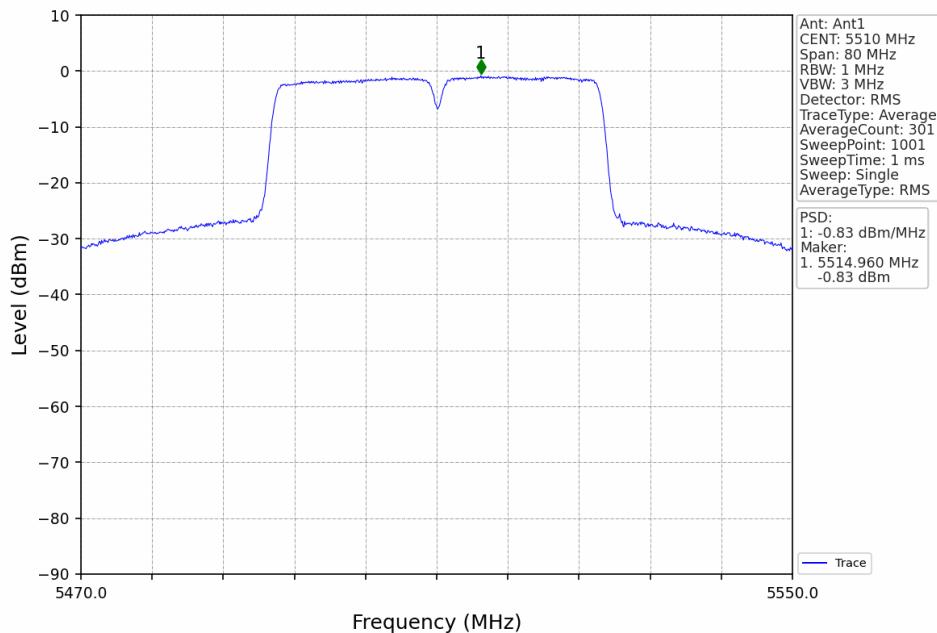






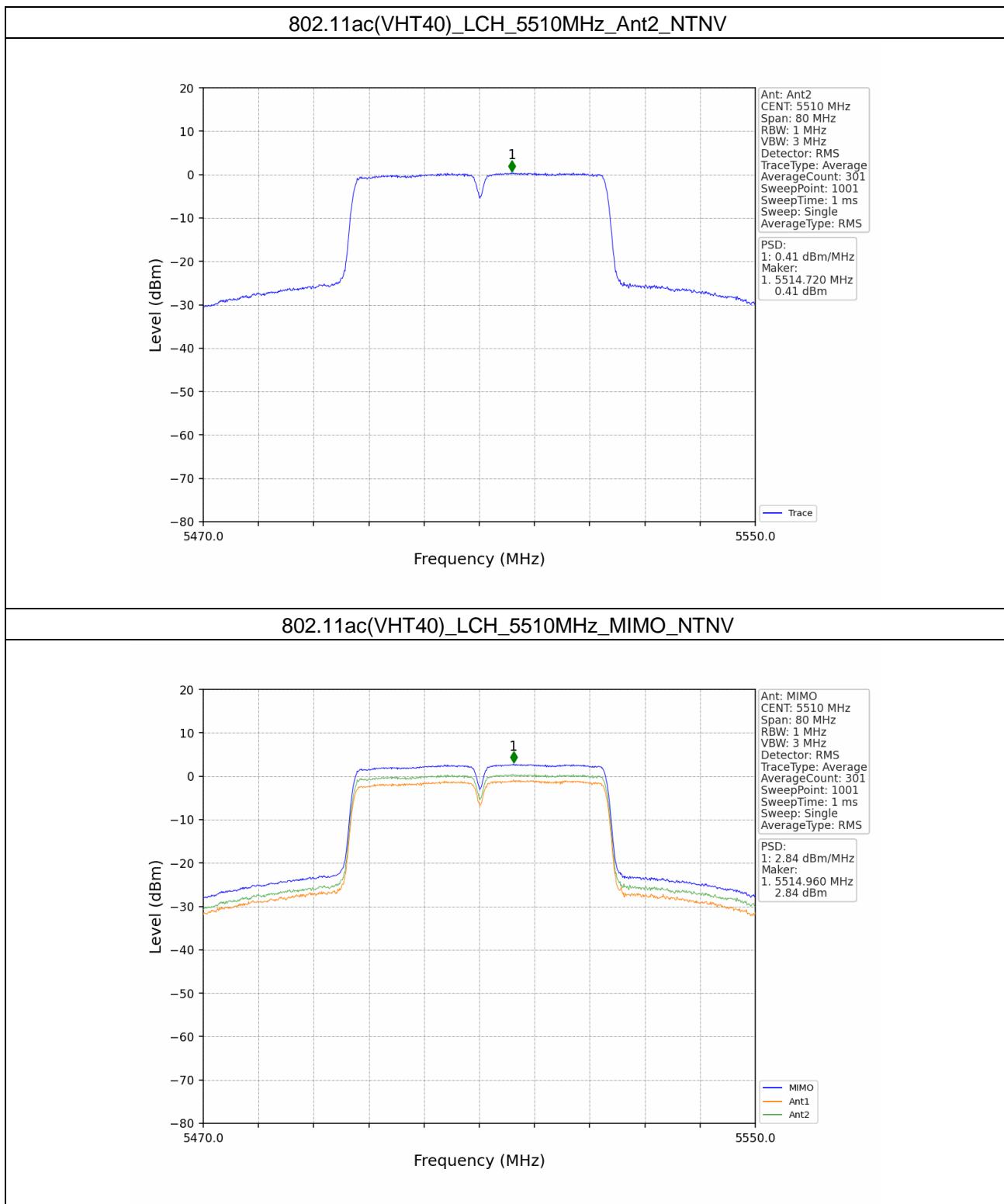


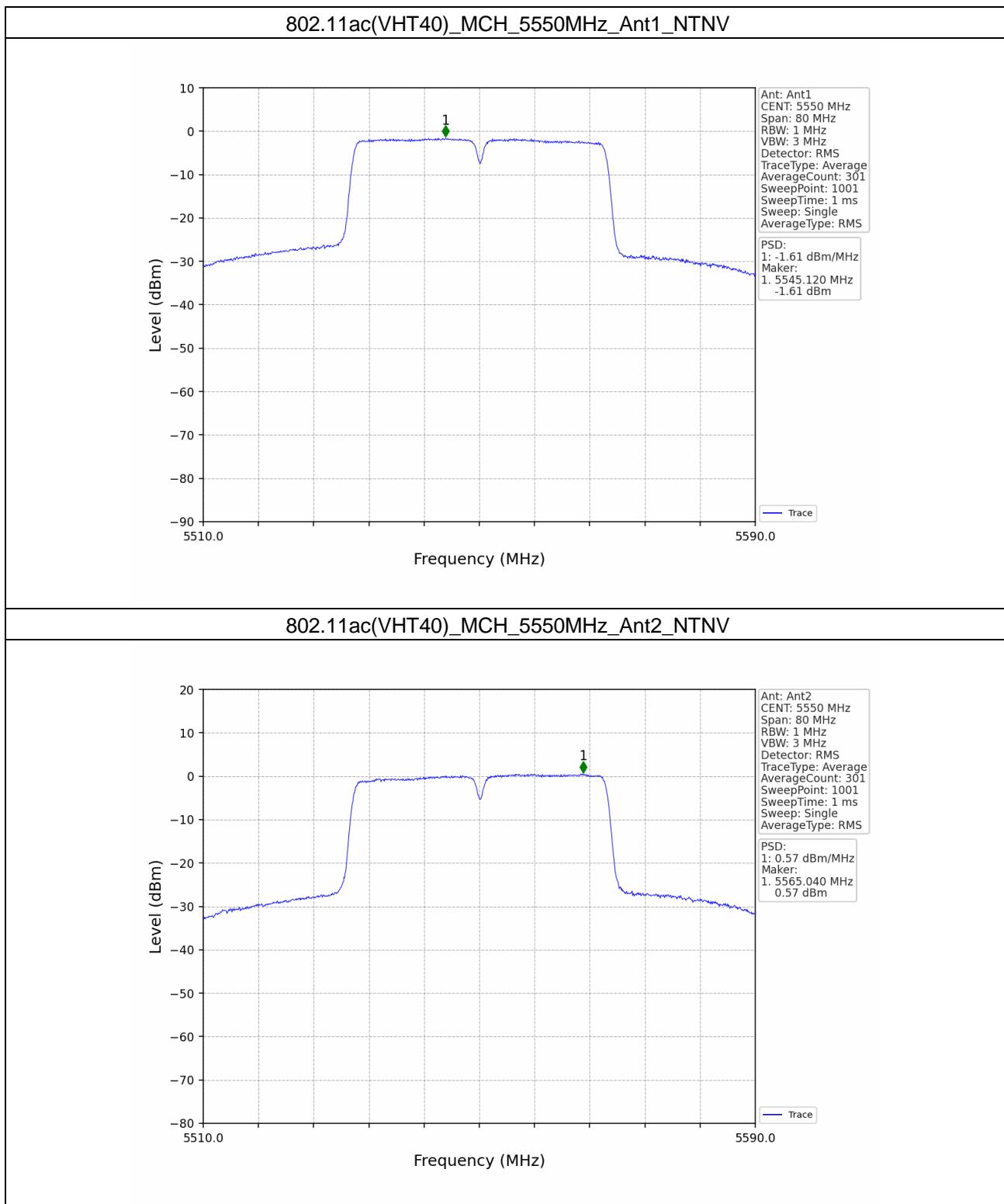


802.11ac(VHT40)_HCH_5310MHz_MIMO_NTNV**802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV**

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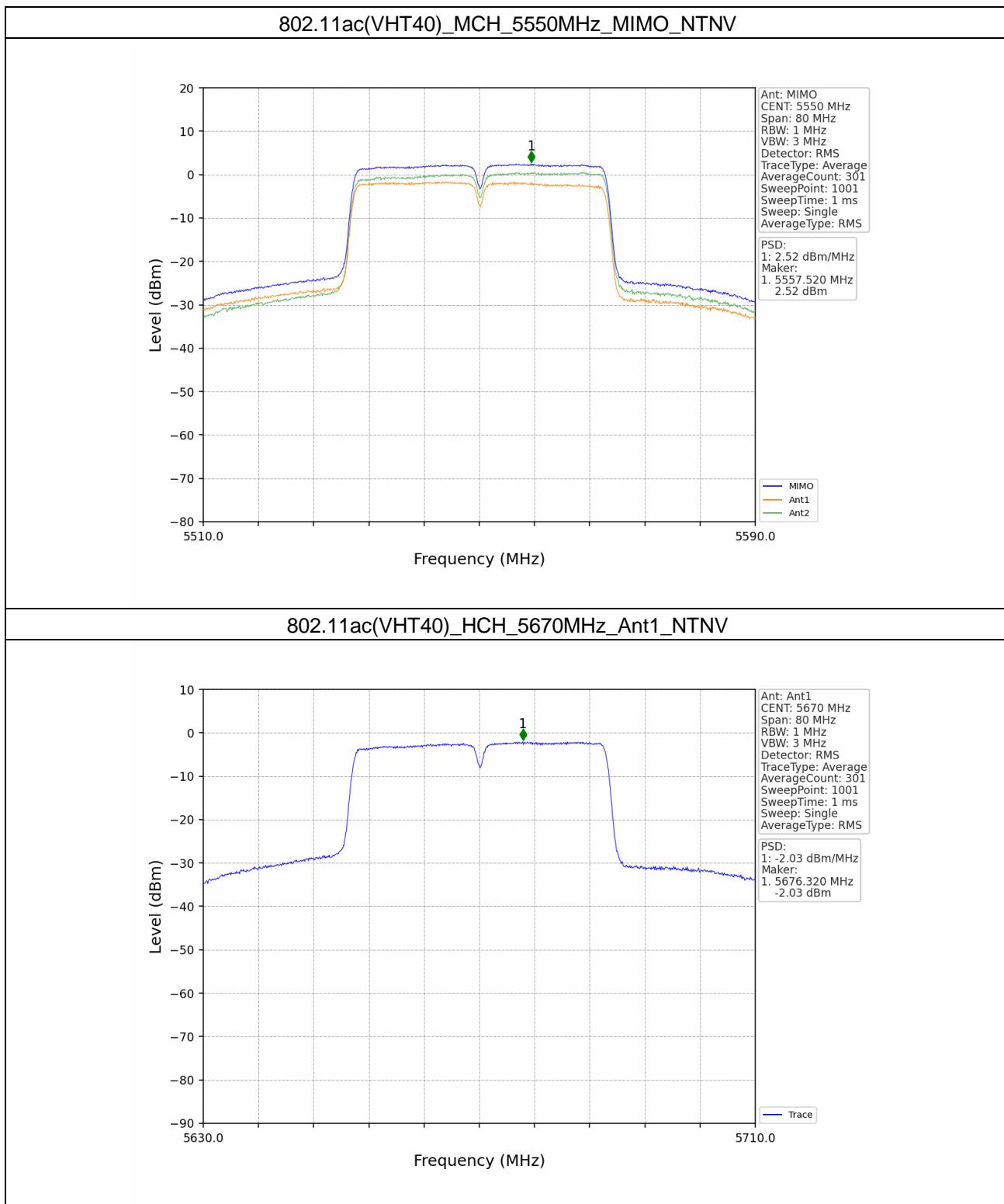
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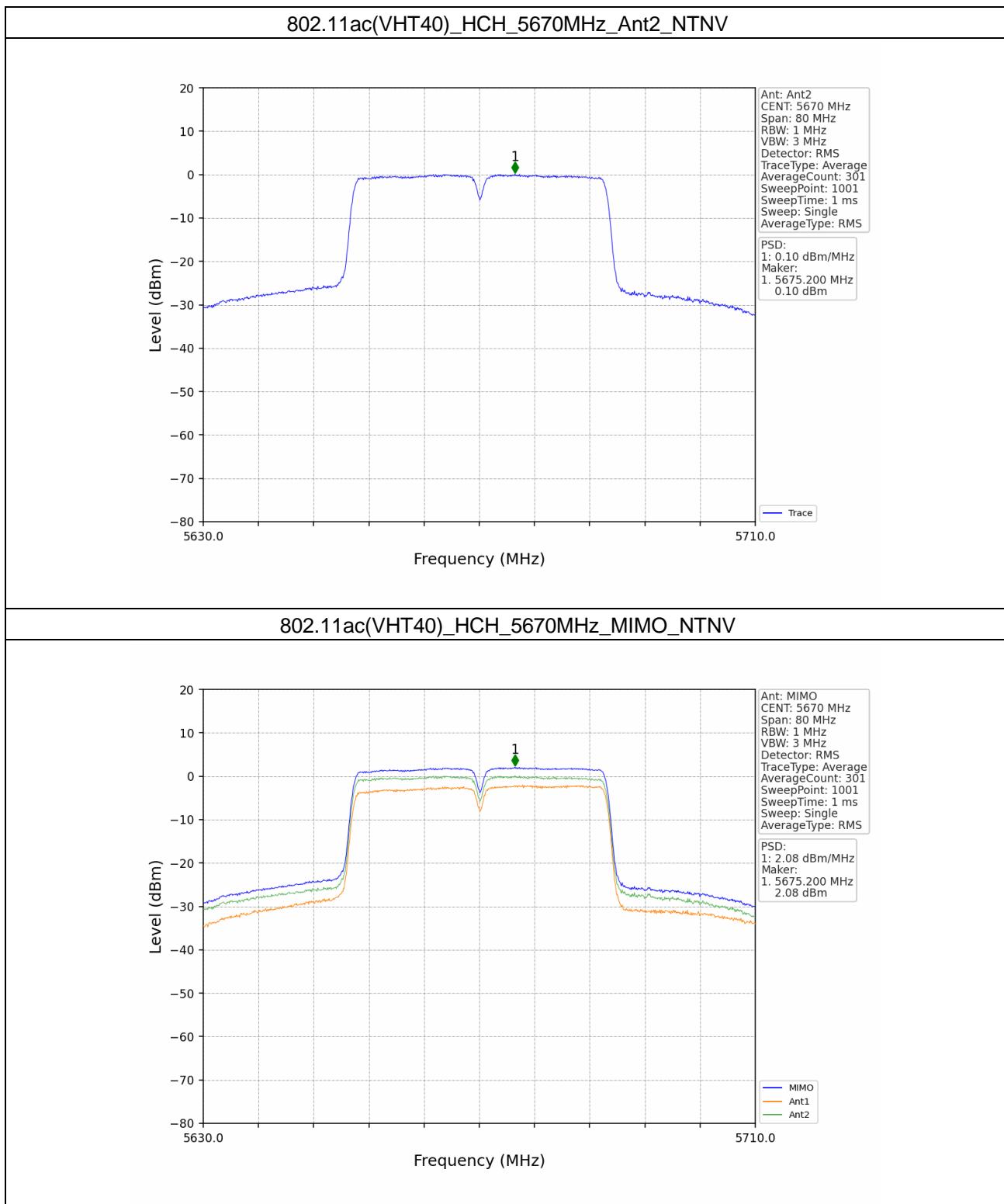


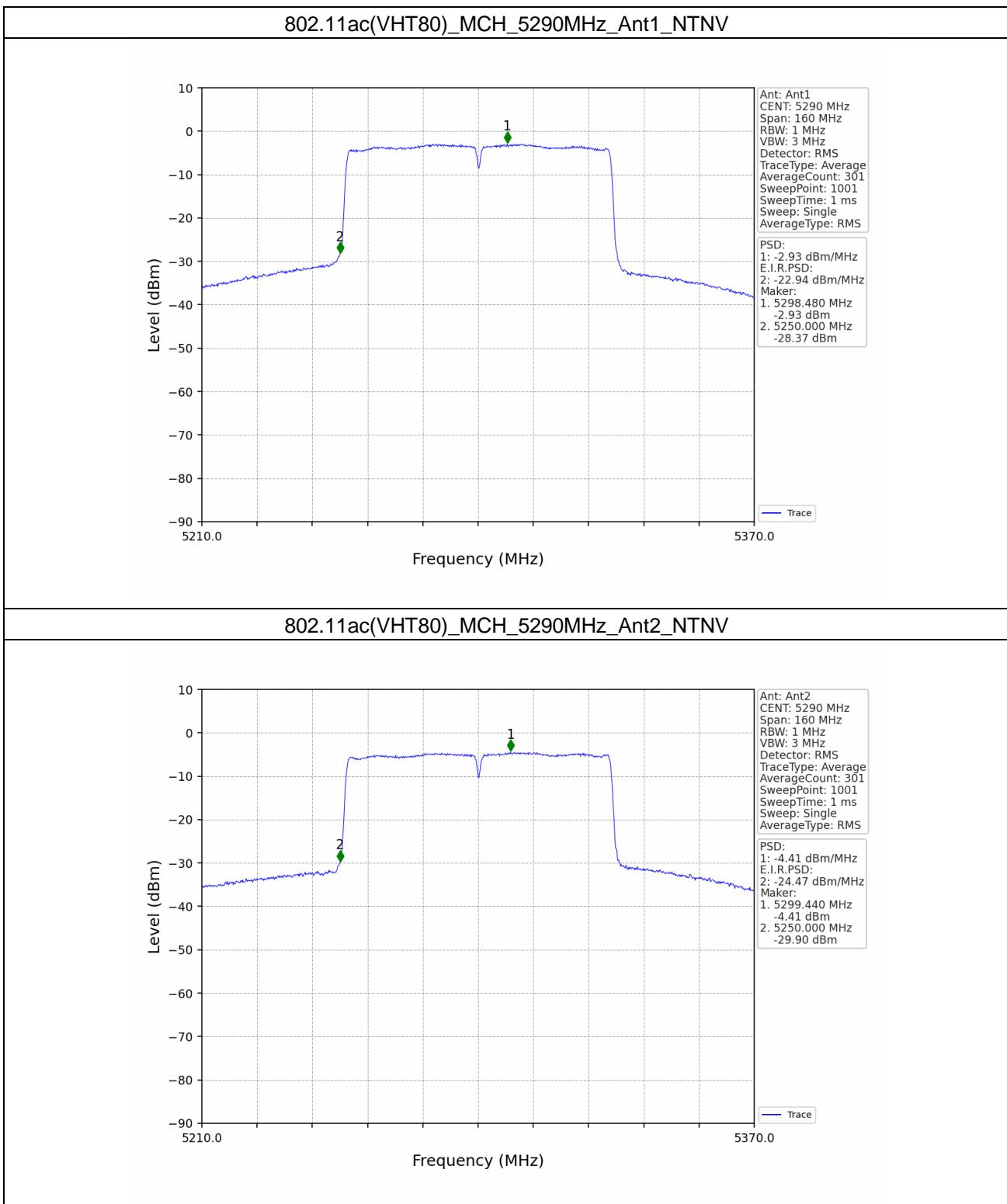


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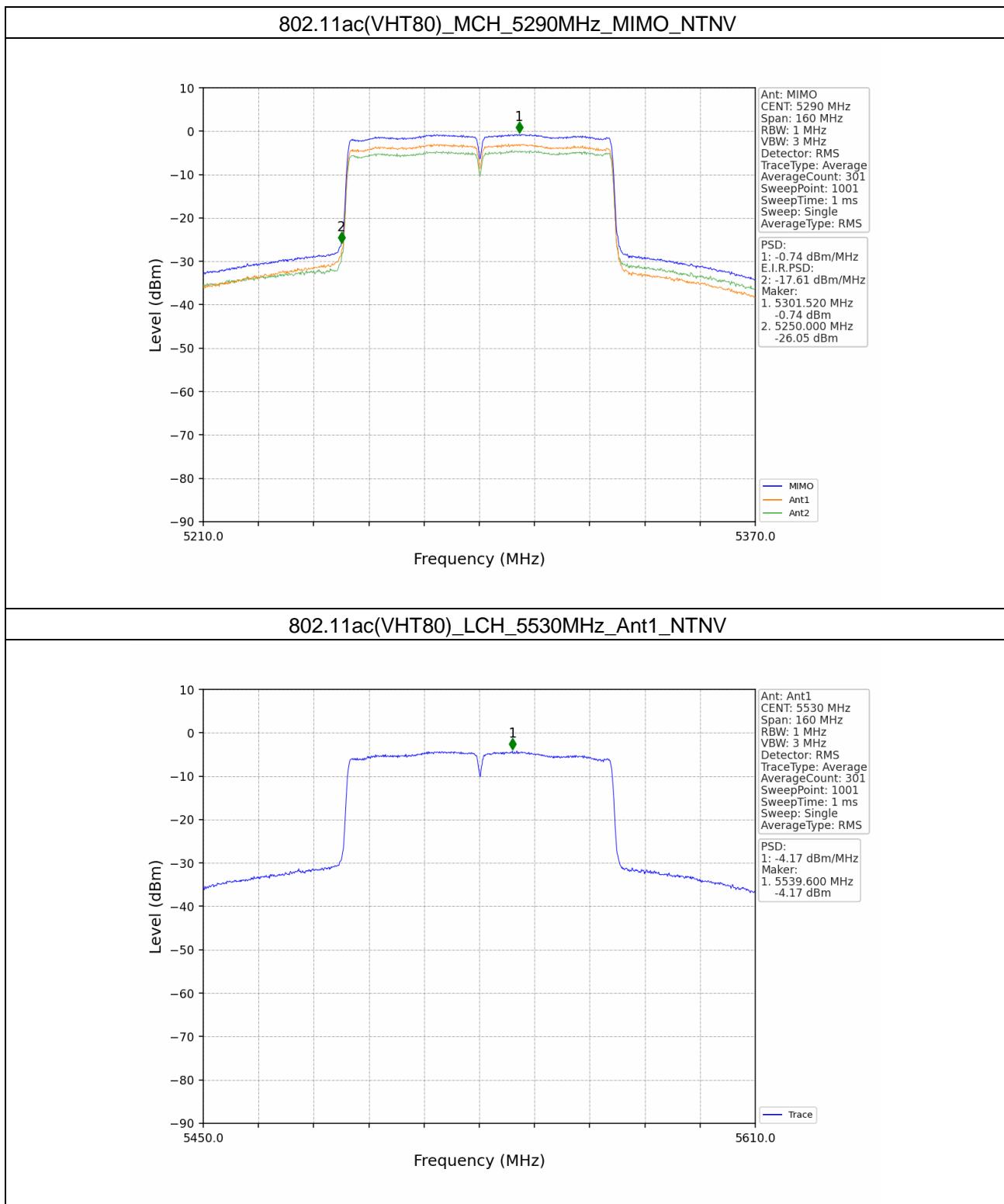






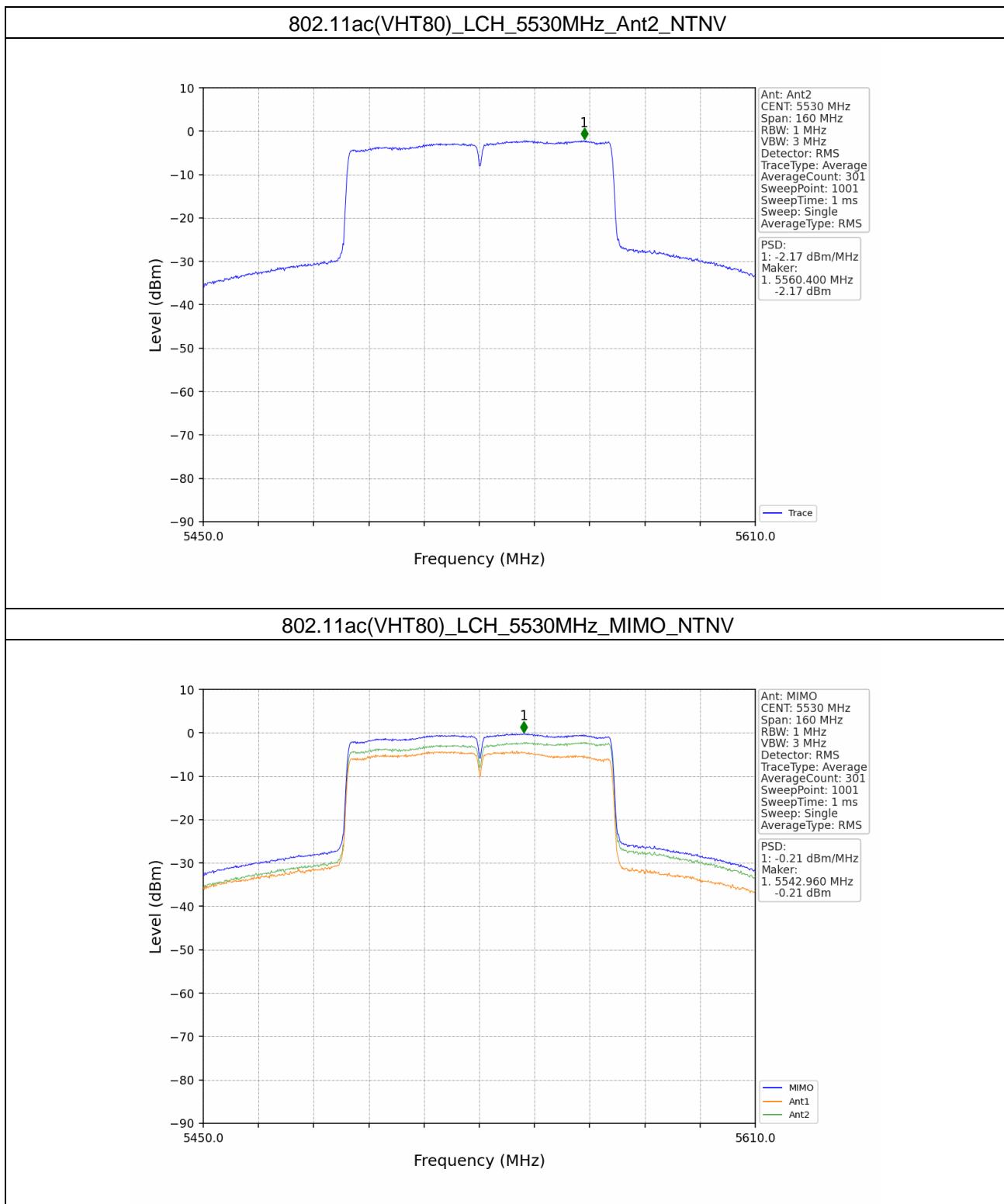
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5. Frequency Stability

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	5180.040	5172.6 to 5187.4	Pass
				120	5180.040	5172.6 to 5187.4	Pass
				138	5180.020	5172.6 to 5187.4	Pass
			-30	120	5180.040	5172.6 to 5187.4	Pass
			50	120	5179.980	5172.6 to 5187.4	Pass
		5200	20	102	5200.040	5192.787 to 5207.213	Pass
				120	5200.040	5192.787 to 5207.213	Pass
				138	5200.040	5192.787 to 5207.213	Pass
			-30	120	5200.060	5192.787 to 5207.213	Pass
			50	120	5200.060	5192.787 to 5207.213	Pass
		5240	20	102	5239.980	5232.7 to 5247.3	Pass
				120	5240.120	5232.7 to 5247.3	Pass
				138	5240.120	5232.7 to 5247.3	Pass
			-30	120	5240.100	5232.7 to 5247.3	Pass
			50	120	5240.040	5232.7 to 5247.3	Pass
		5260	20	102	5260.040	5252.642 to 5267.358	Pass
				120	5260.020	5252.642 to 5267.358	Pass
				138	5260.080	5252.642 to 5267.358	Pass
			-30	120	5260.040	5252.642 to 5267.358	Pass
			50	120	5260.100	5252.642 to 5267.358	Pass
		5300	20	102	5300.060	5292.218 to 5307.782	Pass
				120	5300.100	5292.218 to 5307.782	Pass
				138	5300.180	5292.218 to 5307.782	Pass
			-30	120	5300.080	5292.218 to 5307.782	Pass
			50	120	5300.040	5292.218 to 5307.782	Pass
		5320	20	102	5320.080	5312.312 to 5327.688	Pass
				120	5320.040	5312.312 to 5327.688	Pass
				138	5320.040	5312.312 to 5327.688	Pass
			-30	120	5320.020	5312.312 to 5327.688	Pass
			50	120	5320.020	5312.312 to 5327.688	Pass
		5500	20	102	5500.140	5492.125 to 5507.875	Pass
				120	5500.060	5492.125 to 5507.875	Pass
				138	5500.000	5492.125 to 5507.875	Pass

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			-30	120	5500.140	5492.125 to 5507.875	Pass
			50	120	5500.020	5492.125 to 5507.875	Pass
			5580	102	5580.060	5572.49 to 5587.51	Pass
				20	5580.040	5572.49 to 5587.51	Pass
				138	5580.020	5572.49 to 5587.51	Pass
				-30	5580.000	5572.49 to 5587.51	Pass
				50	5580.100	5572.49 to 5587.51	Pass
			5700	102	5700.140	5691.966 to 5708.034	Pass
				20	5700.060	5691.966 to 5708.034	Pass
				138	5700.040	5691.966 to 5708.034	Pass
				-30	5700.120	5691.966 to 5708.034	Pass
				50	5700.060	5691.966 to 5708.034	Pass
802.11n (HT20)	MIMO	5180	20	102	5180.020	5172.634 to 5187.366	Pass
				120	5180.060	5172.634 to 5187.366	Pass
				138	5180.000	5172.634 to 5187.366	Pass
			-30	120	5180.040	5172.634 to 5187.366	Pass
				50	5180.020	5172.634 to 5187.366	Pass
		5200	20	102	5200.060	5192.664 to 5207.336	Pass
				120	5200.100	5192.664 to 5207.336	Pass
				138	5200.080	5192.664 to 5207.336	Pass
			-30	120	5200.060	5192.664 to 5207.336	Pass
				50	5200.040	5192.664 to 5207.336	Pass
		5240	20	102	5240.060	5232.664 to 5247.336	Pass
				120	5240.080	5232.664 to 5247.336	Pass
				138	5240.080	5232.664 to 5247.336	Pass
			-30	120	5240.060	5232.664 to 5247.336	Pass
				50	5240.040	5232.664 to 5247.336	Pass
		5260	20	102	5260.120	5252.682 to 5267.318	Pass
				120	5260.060	5252.682 to 5267.318	Pass
				138	5260.060	5252.682 to 5267.318	Pass
			-30	120	5260.060	5252.682 to 5267.318	Pass
				50	5260.060	5252.682 to 5267.318	Pass
		5300	20	102	5300.080	5292.661 to 5307.339	Pass
				120	5300.020	5292.661 to 5307.339	Pass
				138	5300.060	5292.661 to 5307.339	Pass
			-30	120	5300.020	5292.661 to 5307.339	Pass
				50	5300.080	5292.661 to 5307.339	Pass
		5320	20	102	5320.040	5312.652 to 5327.348	Pass
				120	5320.100	5312.652 to 5327.348	Pass

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				138	5320.060	5312.652 to 5327.348	Pass
			-30	120	5320.020	5312.652 to 5327.348	Pass
			50	120	5320.100	5312.652 to 5327.348	Pass
		5500	20	102	5500.060	5492.485 to 5507.515	Pass
				120	5500.100	5492.485 to 5507.515	Pass
				138	5500.100	5492.485 to 5507.515	Pass
			-30	120	5500.140	5492.485 to 5507.515	Pass
			50	120	5500.080	5492.485 to 5507.515	Pass
		5580	20	102	5580.080	5572.601 to 5587.399	Pass
				120	5580.060	5572.601 to 5587.399	Pass
				138	5580.080	5572.601 to 5587.399	Pass
			-30	120	5580.040	5572.601 to 5587.399	Pass
			50	120	5580.060	5572.601 to 5587.399	Pass
		5700	20	102	5700.080	5692.566 to 5707.434	Pass
				120	5700.060	5692.566 to 5707.434	Pass
				138	5700.100	5692.566 to 5707.434	Pass
			-30	120	5700.100	5692.566 to 5707.434	Pass
			50	120	5700.080	5692.566 to 5707.434	Pass
802.11n (HT40)	MIMO	5190	20	102	5190.080	5175.22 to 5204.78	Pass
				120	5190.120	5175.22 to 5204.78	Pass
				138	5190.120	5175.22 to 5204.78	Pass
			-30	120	5190.120	5175.22 to 5204.78	Pass
			50	120	5190.080	5175.22 to 5204.78	Pass
		5230	20	102	5230.080	5215.268 to 5244.732	Pass
				120	5230.120	5215.268 to 5244.732	Pass
				138	5230.120	5215.268 to 5244.732	Pass
			-30	120	5230.080	5215.268 to 5244.732	Pass
			50	120	5230.160	5215.268 to 5244.732	Pass
		5270	20	102	5270.080	5255.155 to 5284.845	Pass
				120	5270.120	5255.155 to 5284.845	Pass
				138	5270.160	5255.155 to 5284.845	Pass
			-30	120	5270.120	5255.155 to 5284.845	Pass
			50	120	5270.080	5255.155 to 5284.845	Pass
		5310	20	102	5310.120	5295.171 to 5324.829	Pass
				120	5310.080	5295.171 to 5324.829	Pass
				138	5310.120	5295.171 to 5324.829	Pass
			-30	120	5310.080	5295.171 to 5324.829	Pass
			50	120	5310.080	5295.171 to 5324.829	Pass
		5510	20	102	5510.160	5494.967 to 5525.033	Pass
				120	5510.120	5494.967 to 5525.033	Pass

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				138	5510.120	5494.967 to 5525.033	Pass
			-30	120	5510.160	5494.967 to 5525.033	Pass
			50	120	5510.120	5494.967 to 5525.033	Pass
		5550	20	102	5550.080	5535.112 to 5564.888	Pass
				120	5550.080	5535.112 to 5564.888	Pass
				138	5550.080	5535.112 to 5564.888	Pass
			-30	120	5550.080	5535.112 to 5564.888	Pass
			50	120	5550.120	5535.112 to 5564.888	Pass
		5670	20	102	5670.200	5655.172 to 5684.828	Pass
				120	5670.160	5655.172 to 5684.828	Pass
				138	5670.120	5655.172 to 5684.828	Pass
			-30	120	5670.160	5655.172 to 5684.828	Pass
			50	120	5670.160	5655.172 to 5684.828	Pass
802.11ac (VHT20)	MIMO	5180	20	102	5180.040	5172.686 to 5187.314	Pass
				120	5180.040	5172.686 to 5187.314	Pass
				138	5180.040	5172.686 to 5187.314	Pass
			-30	120	5180.060	5172.686 to 5187.314	Pass
			50	120	5180.100	5172.686 to 5187.314	Pass
		5200	20	102	5200.060	5192.693 to 5207.307	Pass
				120	5200.060	5192.693 to 5207.307	Pass
				138	5200.040	5192.693 to 5207.307	Pass
			-30	120	5200.040	5192.693 to 5207.307	Pass
			50	120	5200.060	5192.693 to 5207.307	Pass
		5240	20	102	5240.060	5232.65 to 5247.35	Pass
				120	5240.080	5232.65 to 5247.35	Pass
				138	5240.060	5232.65 to 5247.35	Pass
			-30	120	5240.080	5232.65 to 5247.35	Pass
			50	120	5240.080	5232.65 to 5247.35	Pass
		5260	20	102	5260.060	5252.601 to 5267.399	Pass
				120	5260.080	5252.601 to 5267.399	Pass
				138	5260.060	5252.601 to 5267.399	Pass
			-30	120	5260.080	5252.601 to 5267.399	Pass
			50	120	5260.060	5252.601 to 5267.399	Pass
		5300	20	102	5300.060	5292.642 to 5307.358	Pass
				120	5300.080	5292.642 to 5307.358	Pass
				138	5300.060	5292.642 to 5307.358	Pass
			-30	120	5300.020	5292.642 to 5307.358	Pass
			50	120	5300.060	5292.642 to 5307.358	Pass
		5320	20	102	5320.040	5312.609 to 5327.391	Pass
				120	5320.040	5312.609 to 5327.391	Pass

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				138	5320.040	5312.609 to 5327.391	Pass
			-30	120	5320.040	5312.609 to 5327.391	Pass
			50	120	5320.040	5312.609 to 5327.391	Pass
		5500	20	102	5500.100	5492.552 to 5507.448	Pass
				120	5500.060	5492.552 to 5507.448	Pass
				138	5500.020	5492.552 to 5507.448	Pass
			-30	120	5500.040	5492.552 to 5507.448	Pass
			50	120	5500.060	5492.552 to 5507.448	Pass
		5580	20	102	5580.060	5572.587 to 5587.413	Pass
				120	5580.060	5572.587 to 5587.413	Pass
				138	5580.100	5572.587 to 5587.413	Pass
			-30	120	5580.020	5572.587 to 5587.413	Pass
			50	120	5580.080	5572.587 to 5587.413	Pass
		5700	20	102	5700.120	5692.595 to 5707.405	Pass
				120	5700.060	5692.595 to 5707.405	Pass
				138	5700.060	5692.595 to 5707.405	Pass
			-30	120	5700.120	5692.595 to 5707.405	Pass
			50	120	5700.100	5692.595 to 5707.405	Pass
802.11ac (VHT40)	MIMO	5190	20	102	5190.120	5175.13 to 5204.87	Pass
				120	5190.080	5175.13 to 5204.87	Pass
				138	5190.080	5175.13 to 5204.87	Pass
			-30	120	5190.080	5175.13 to 5204.87	Pass
			50	120	5190.160	5175.13 to 5204.87	Pass
		5230	20	102	5230.160	5215.157 to 5244.843	Pass
				120	5230.160	5215.157 to 5244.843	Pass
				138	5230.160	5215.157 to 5244.843	Pass
			-30	120	5230.080	5215.157 to 5244.843	Pass
			50	120	5230.160	5215.157 to 5244.843	Pass
		5270	20	102	5270.160	5255.142 to 5284.858	Pass
				120	5270.120	5255.142 to 5284.858	Pass
				138	5270.120	5255.142 to 5284.858	Pass
			-30	120	5270.080	5255.142 to 5284.858	Pass
			50	120	5270.120	5255.142 to 5284.858	Pass
		5310	20	102	5310.120	5295.133 to 5324.867	Pass
				120	5310.120	5295.133 to 5324.867	Pass
				138	5310.120	5295.133 to 5324.867	Pass
			-30	120	5310.080	5295.133 to 5324.867	Pass
			50	120	5310.040	5295.133 to 5324.867	Pass
		5510	20	102	5510.160	5494.972 to 5525.028	Pass
				120	5510.200	5494.972 to 5525.028	Pass

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				138	5510.120	5494.972 to 5525.028	Pass
			-30	120	5510.120	5494.972 to 5525.028	Pass
			50	120	5510.080	5494.972 to 5525.028	Pass
		5550	20	102	5550.040	5535.011 to 5564.989	Pass
				120	5550.080	5535.011 to 5564.989	Pass
			138		5550.080	5535.011 to 5564.989	Pass
			-30	120	5550.040	5535.011 to 5564.989	Pass
			50	120	5550.160	5535.011 to 5564.989	Pass
		5670	20	102	5670.120	5655.068 to 5684.932	Pass
				120	5670.160	5655.068 to 5684.932	Pass
			138		5670.160	5655.068 to 5684.932	Pass
			-30	120	5670.120	5655.068 to 5684.932	Pass
			50	120	5670.160	5655.068 to 5684.932	Pass
802.11ac (VHT80)	MIMO	5210	20	102	5210.150	5179.211 to 5240.789	Pass
				120	5210.225	5179.211 to 5240.789	Pass
			138		5210.225	5179.211 to 5240.789	Pass
			-30	120	5210.150	5179.211 to 5240.789	Pass
			50	120	5210.225	5179.211 to 5240.789	Pass
		5290	20	102	5290.150	5259.367 to 5320.633	Pass
				120	5290.075	5259.367 to 5320.633	Pass
			138		5290.150	5259.367 to 5320.633	Pass
			-30	120	5290.075	5259.367 to 5320.633	Pass
			50	120	5290.150	5259.367 to 5320.633	Pass
		5530	20	102	5530.150	5499.21 to 5560.79	Pass
				120	5530.150	5499.21 to 5560.79	Pass
			138		5530.075	5499.21 to 5560.79	Pass
			-30	120	5530.150	5499.21 to 5560.79	Pass
			50	120	5530.150	5499.21 to 5560.79	Pass

6.DFS

Test Result:

BW/Channel	Test Item	Result
80MHz/5290MHz	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

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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



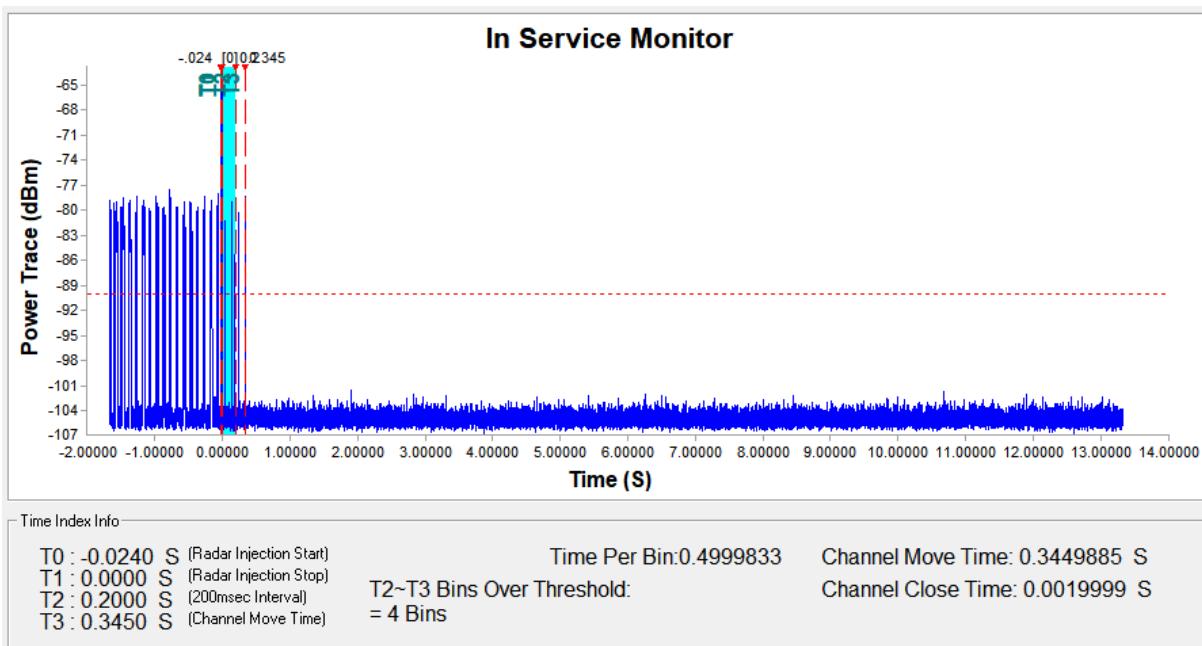
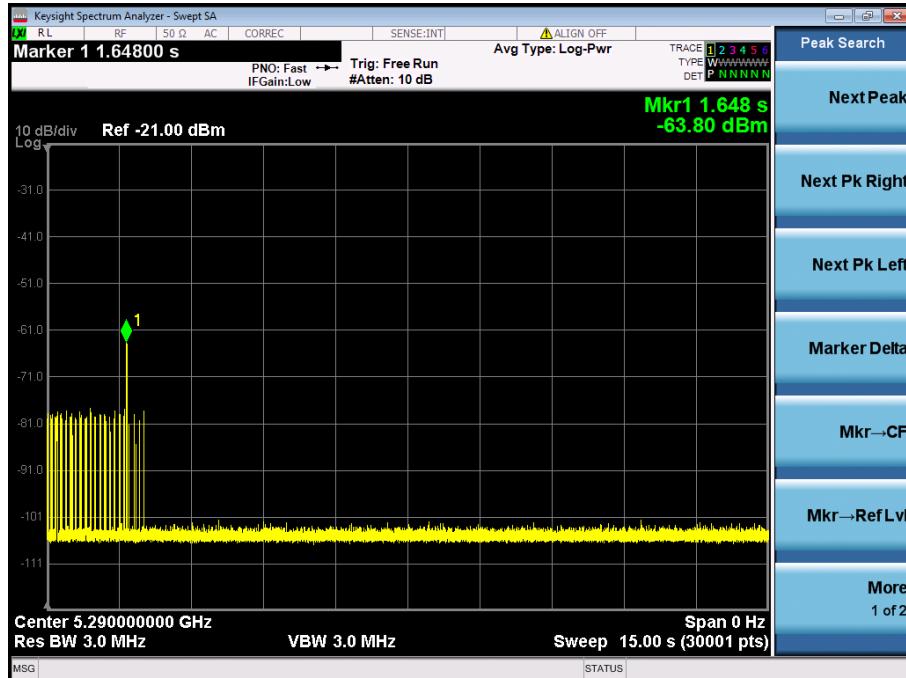
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5290MHz



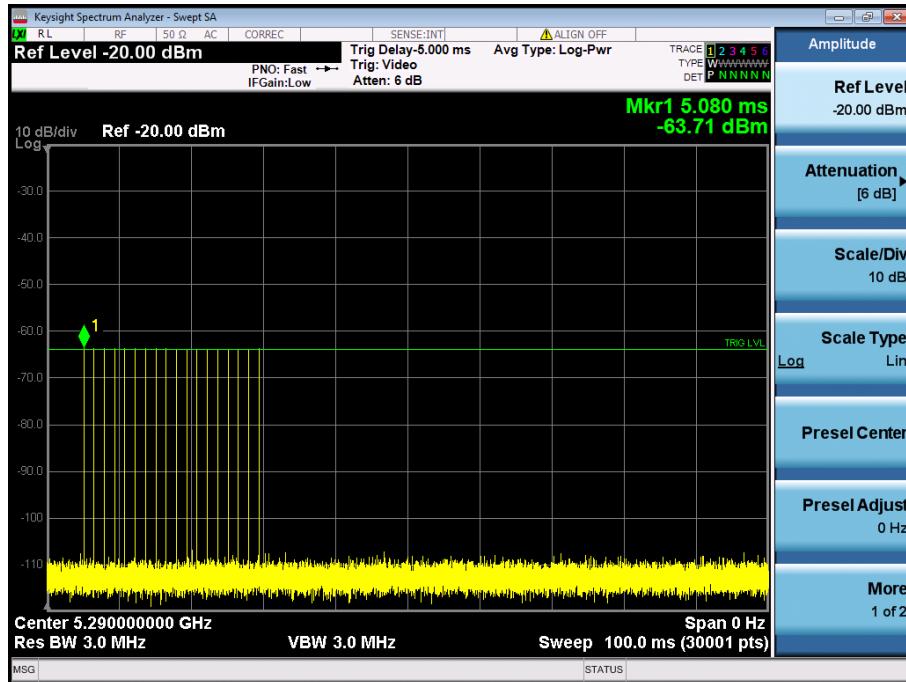
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Radar



- End of the Report -

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