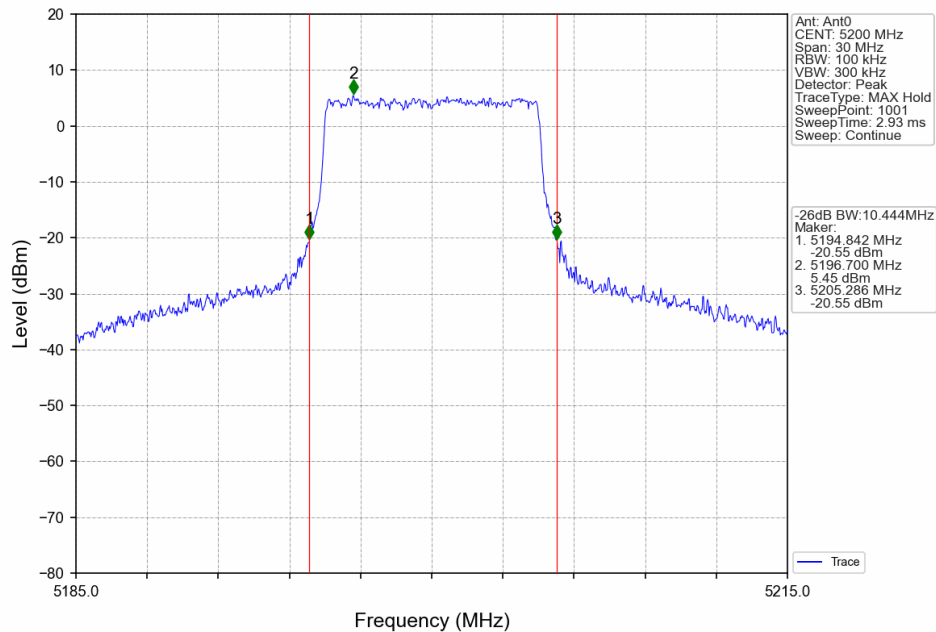
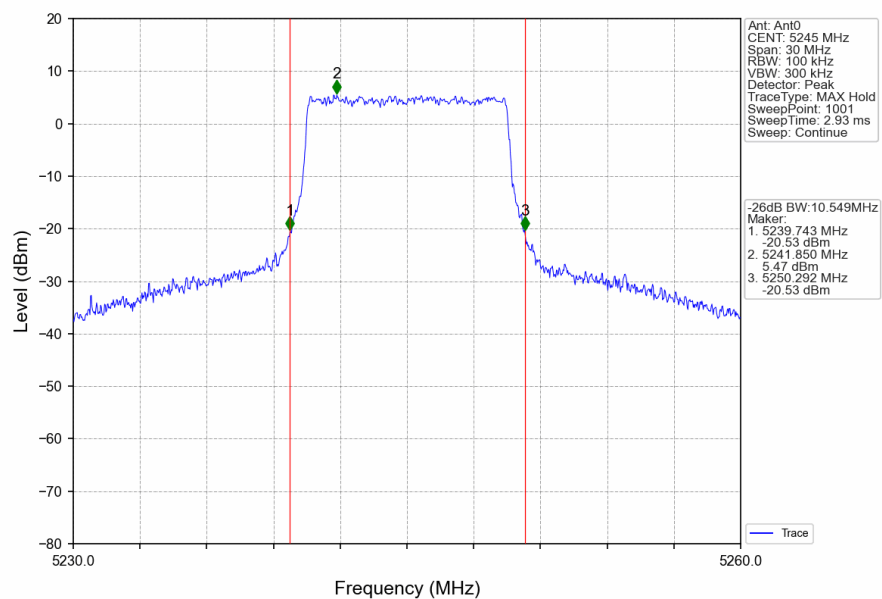


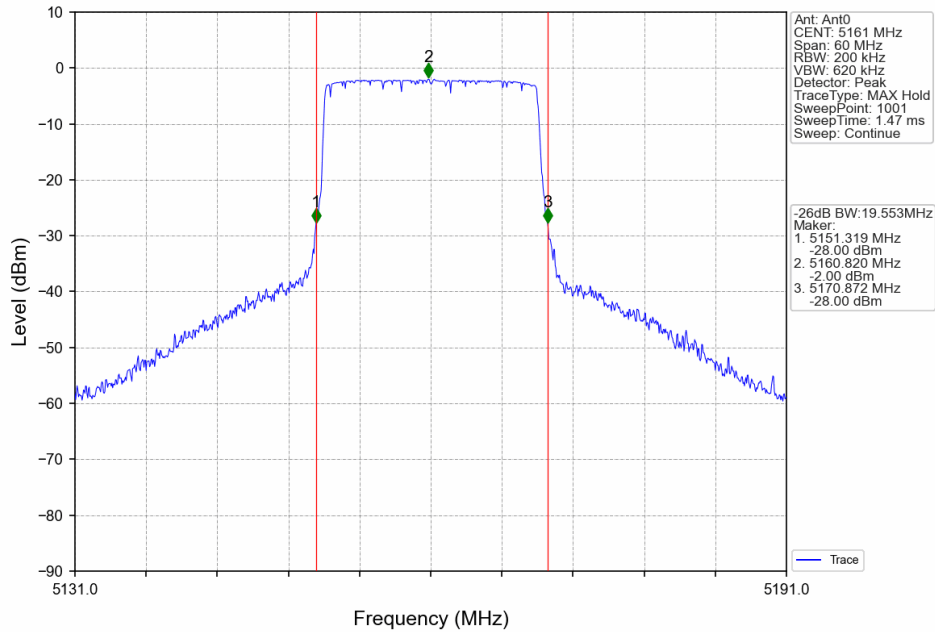
10MHz_MCH_5200MHz_Ant0_NTNV



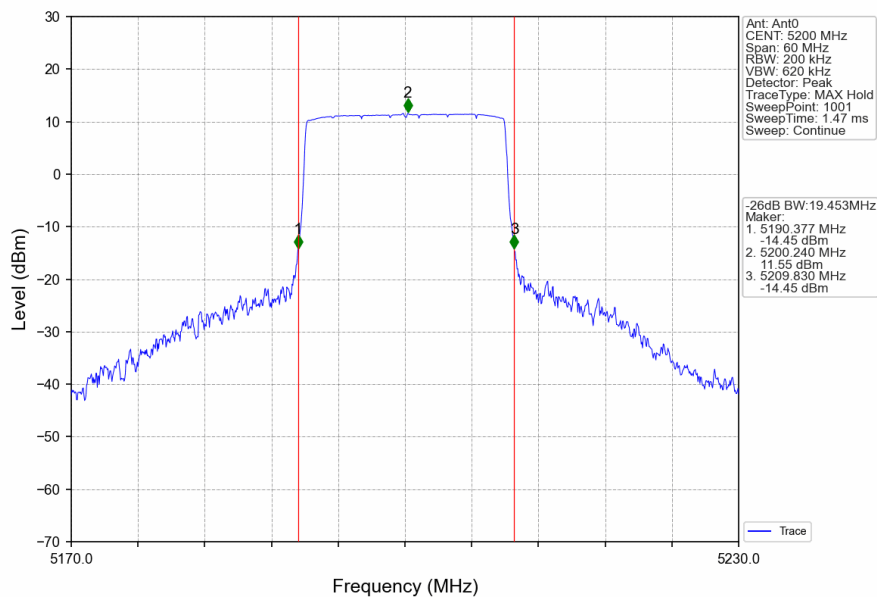
10MHz_HCH_5245MHz_Ant0_NTNV



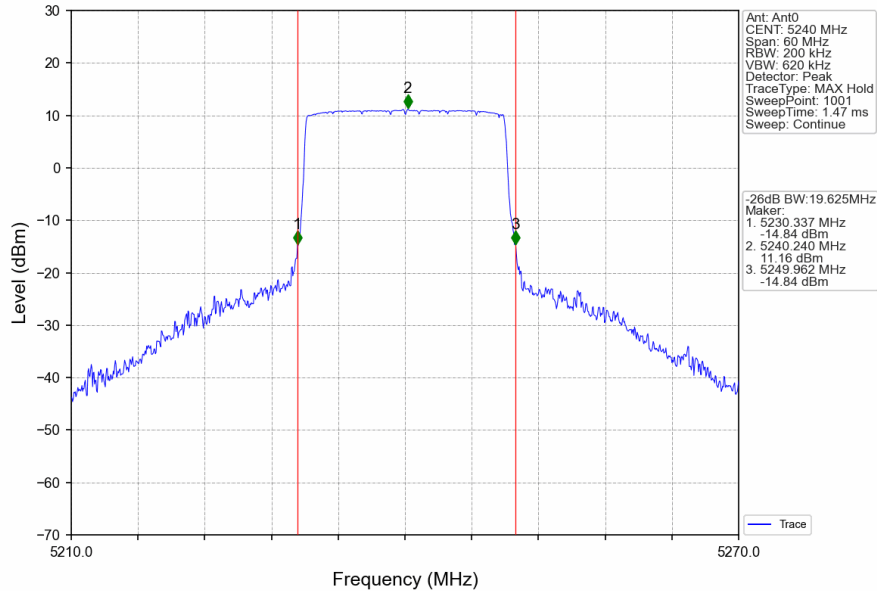
20MHz_LCH_5161MHz_Ant0_NTNV



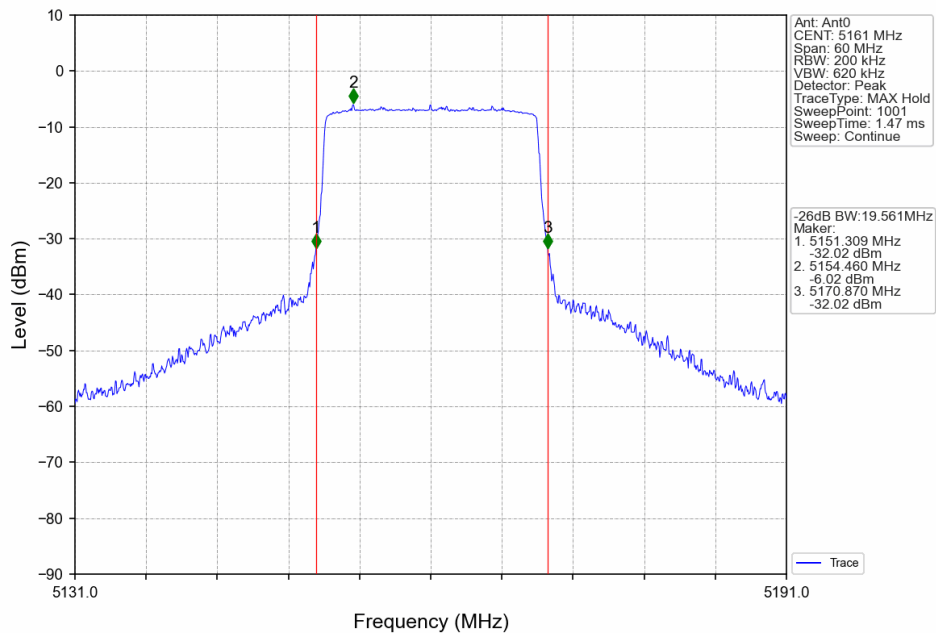
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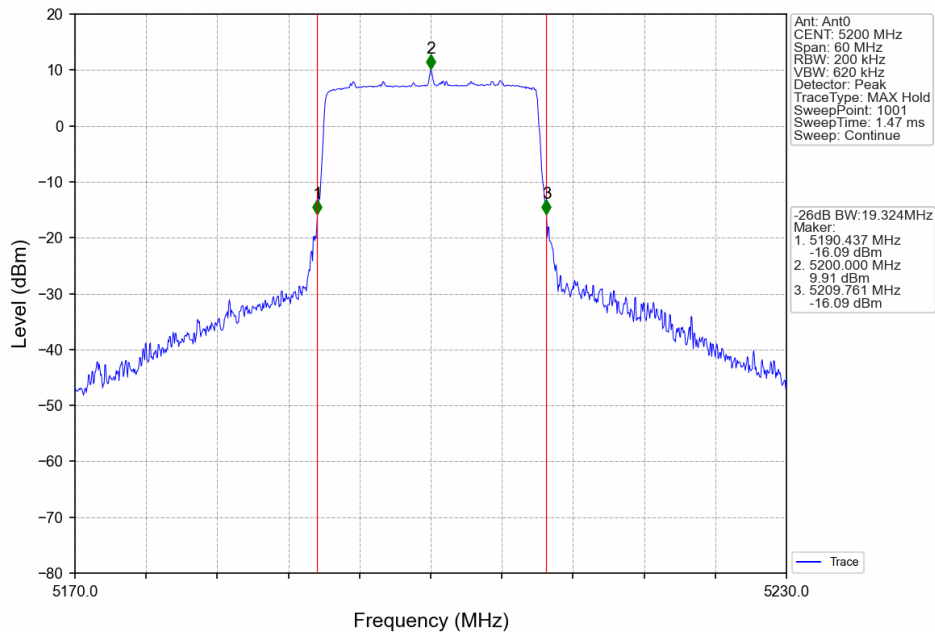
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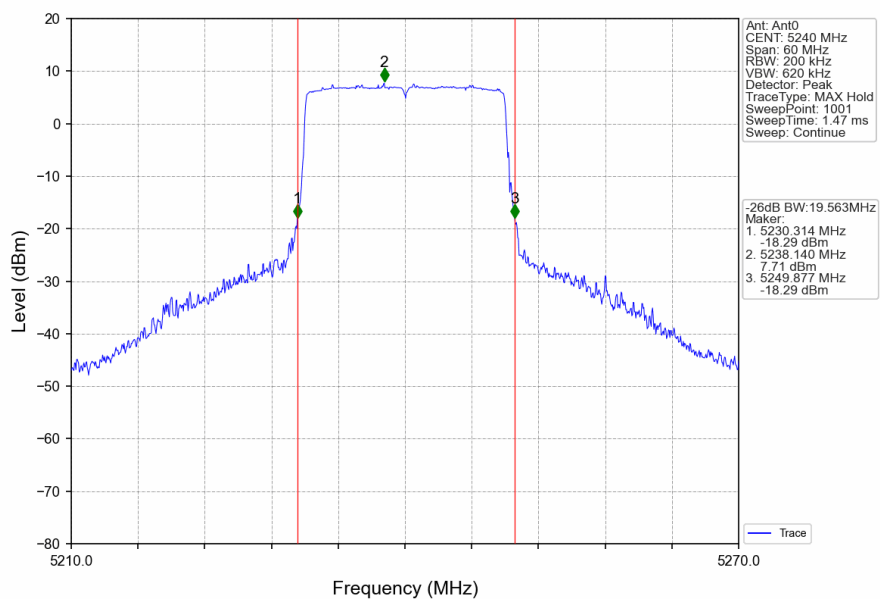
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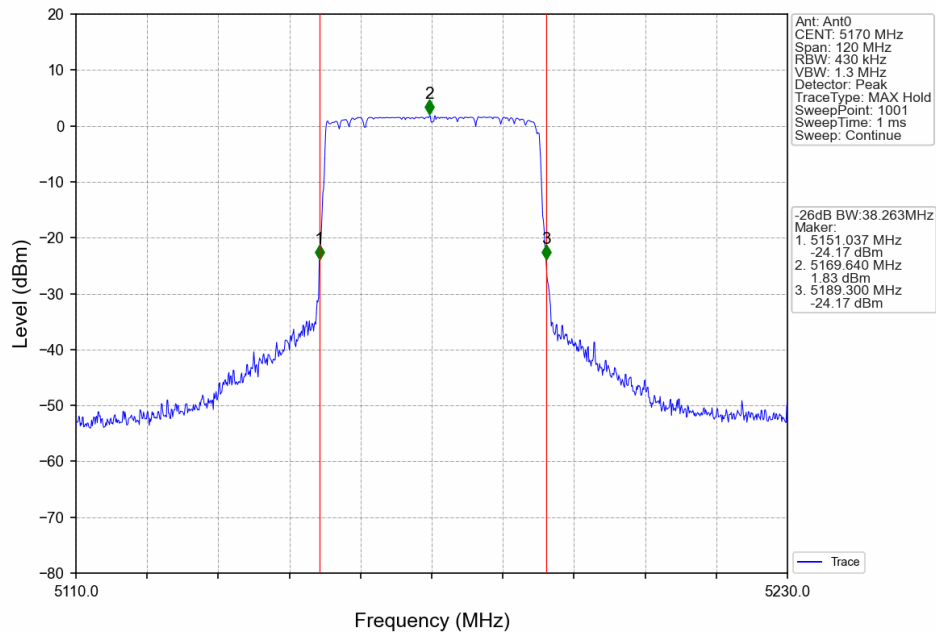
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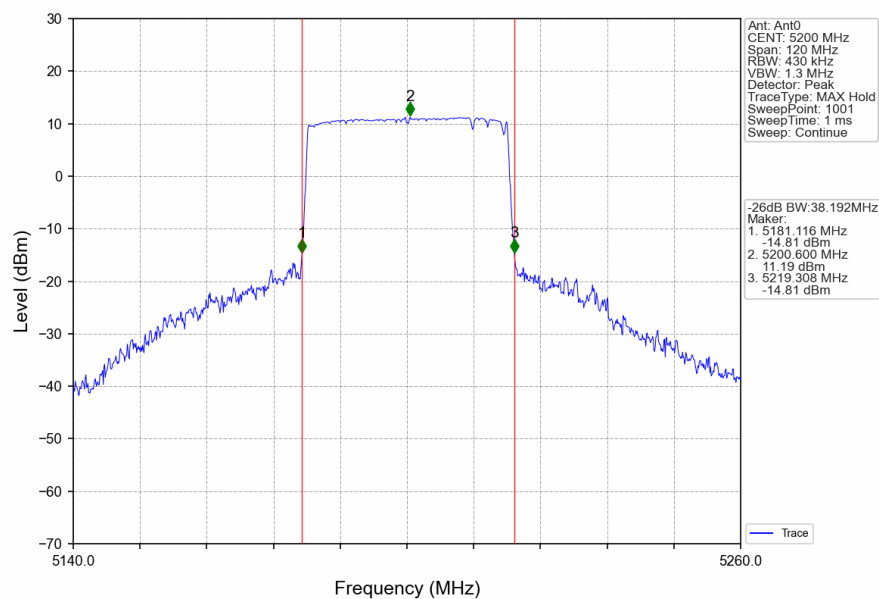
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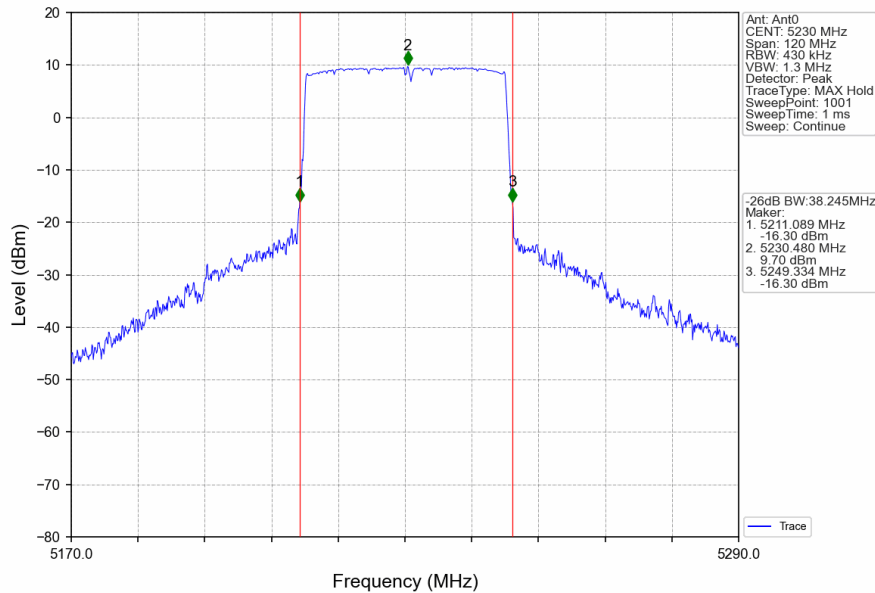
40MHz_LCH_5170MHz_Ant0_NTNV



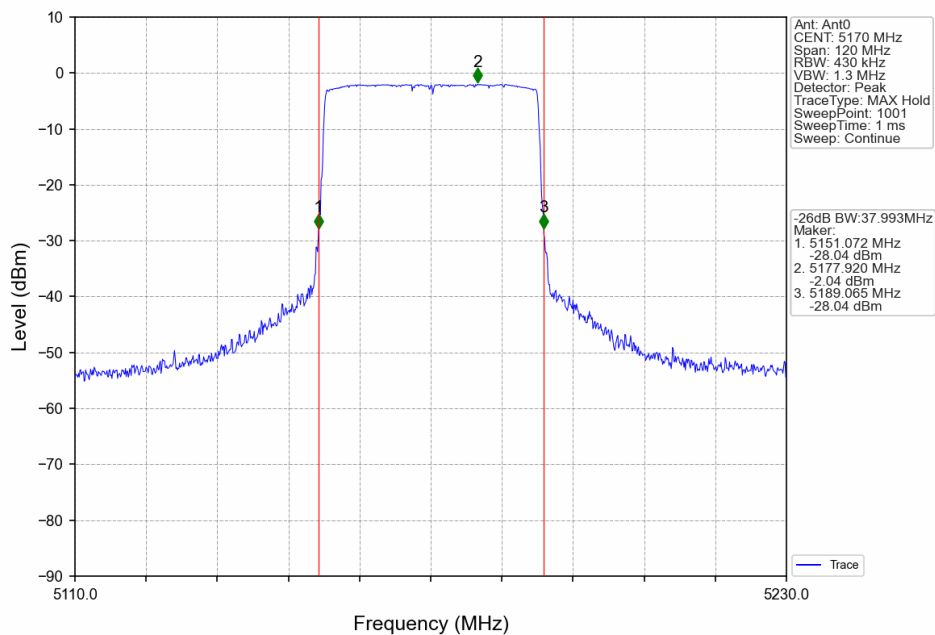
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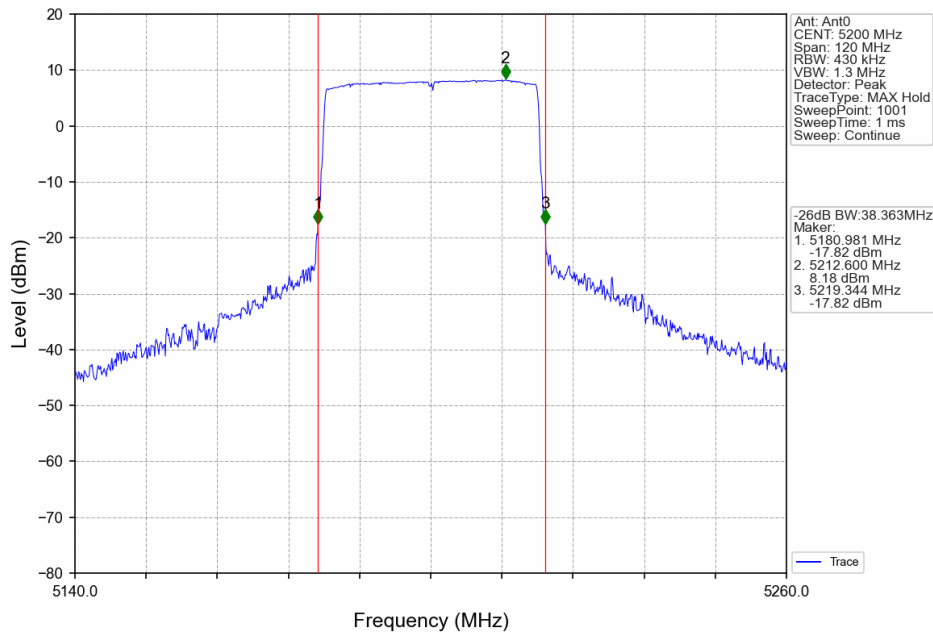
40MHz_HCH_5230MHz_Ant0_NTNV



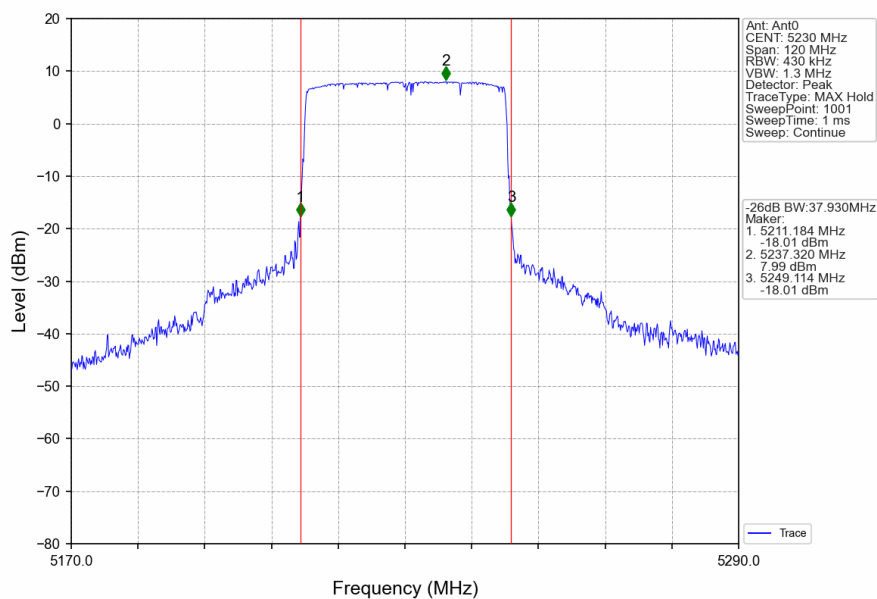
40MHz_LCH_5170MHz_Ant0_NTNV



40MHz_MCH_5200MHz_Ant0_NTNV



40MHz_HCH_5230MHz_Ant0_NTNV



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	
10MHz	SISO	5157	4.89	4.84	/	<=23.98	Pass
		5200	19.61	19.26	/	<=23.98	Pass
		5245	19.65	18.60	/	<=23.98	Pass
	MIMO	5157	1.77	1.50	4.65	<=23.98	Pass
		5200	16.61	16.51	19.57	<=23.98	Pass
		5245	16.90	15.72	19.36	<=23.98	Pass
20MHz	SISO	5161	5.76	5.47	/	<=23.98	Pass
		5200	19.14	18.68	/	<=23.98	Pass
		5240	18.93	18.89	/	<=23.98	Pass
	MIMO	5161	2.85	2.66	5.77	<=23.98	Pass
		5200	16.04	15.45	18.77	<=23.98	Pass
		5240	16.68	15.99	19.36	<=23.98	Pass
40MHz	SISO	5170	10.19	9.53	/	<=23.98	Pass
		5200	18.83	18.78	/	<=23.98	Pass
		5230	18.86	18.72	/	<=23.98	Pass
	MIMO	5170	6.91	6.49	9.72	<=23.98	Pass
		5200	16.18	15.47	18.85	<=23.98	Pass
		5230	15.76	15.99	18.89	<=23.98	Pass

Note1: Antenna Gain (U-NII-1): ANT0: 1.5dBi; ANT1: 1.5dBi

Directional gain (dBi) for U-NII-1 = gain of individual transmit antennas (dBi) + array gain (dB)=1.5dBi

Array Gain = 0 dB for $N_{ANT} \leq 4$

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

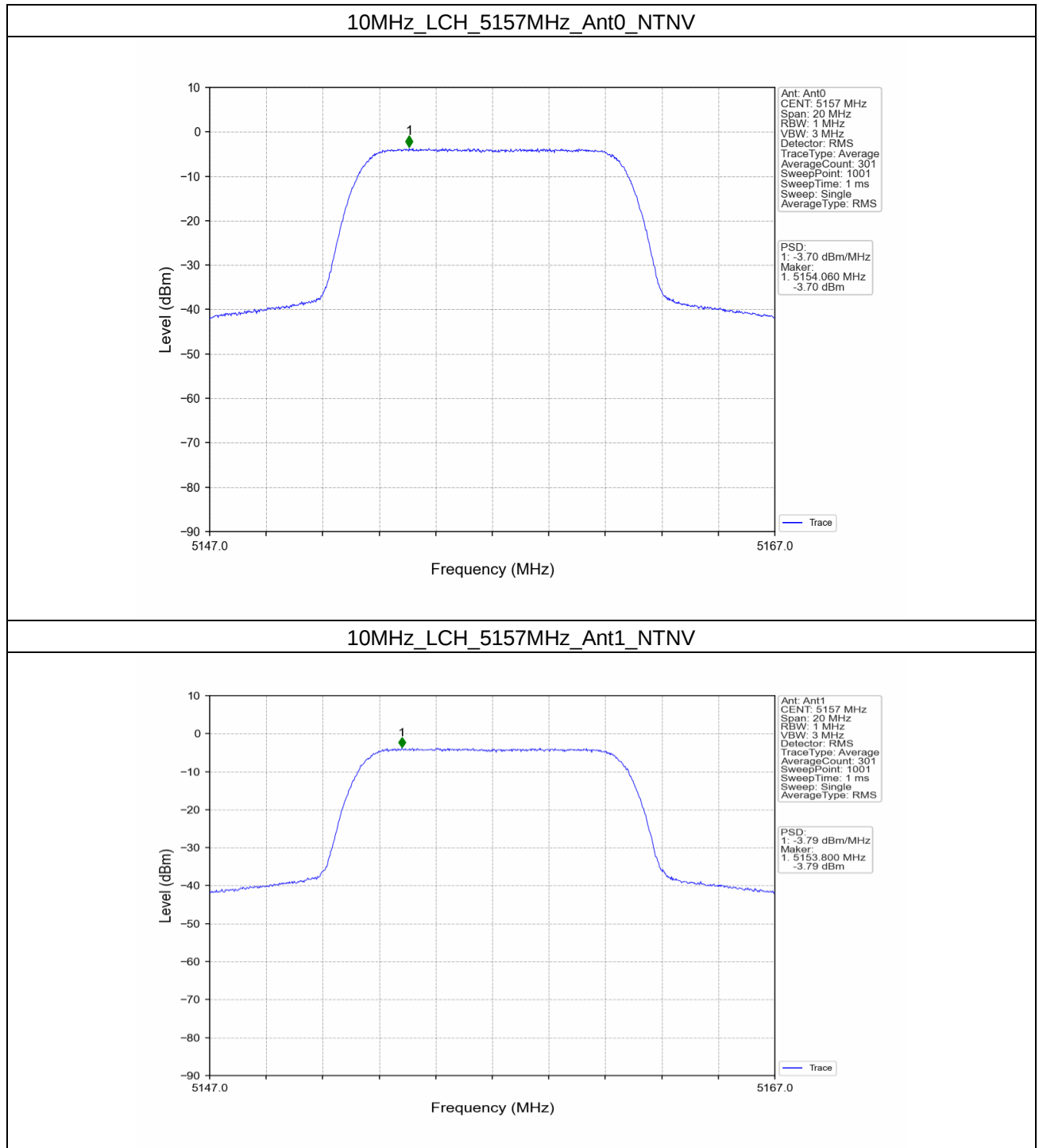
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)				Verdict
			ANT0	ANT1	MIMO	Limit	
10MHz	SISO	5157	-3.70	-3.79	/	<=11	Pass
		5200	10.93	10.74	/	<=11	Pass
		5245	10.97	10.39	/	<=11	Pass
	MIMO	5157	-6.84	-7.08	-4.17	<=11	Pass
		5200	7.90	7.77	10.72	<=11	Pass
		5245	8.26	7.12	10.58	<=11	Pass
20MHz	SISO	5161	-5.68	-6.19	/	<=11	Pass
		5200	7.57	7.06	/	<=11	Pass
		5240	7.34	7.66	/	<=11	Pass
	MIMO	5161	-8.71	-7.59	-5.18	<=11	Pass
		5200	4.50	3.92	7.06	<=11	Pass
		5240	5.09	4.34	7.58	<=11	Pass
40MHz	SISO	5170	-4.08	-5.02	/	<=11	Pass
		5200	4.41	4.15	/	<=11	Pass
		5230	4.52	4.21	/	<=11	Pass
	MIMO	5170	-7.46	-8.01	-4.93	<=11	Pass
		5200	1.91	0.89	4.29	<=11	Pass
		5230	1.67	1.46	4.42	<=11	Pass

Note1: Antenna Gain (U-NII-1): ANT0: 1.5dBi; ANT1: 1.5dBi

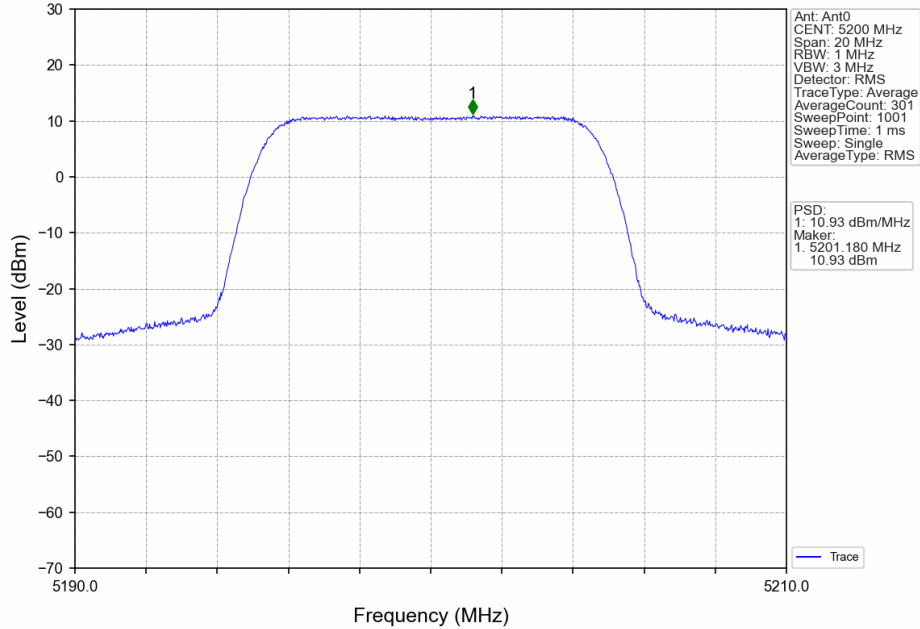
directional gain (dBi) for U-NII-1 = gain of individual transmit antennas (dBi) + array gain (dB)=4.51dBi

Array gain = 10 log(N_{ANT}), where N_{ANT} is the number of transmit antennas

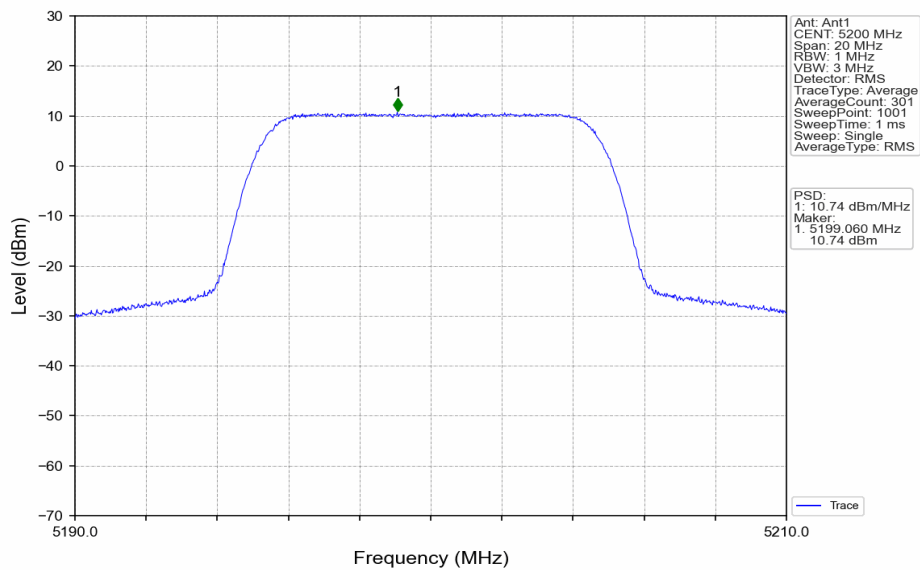
4.1.2 Test Graph



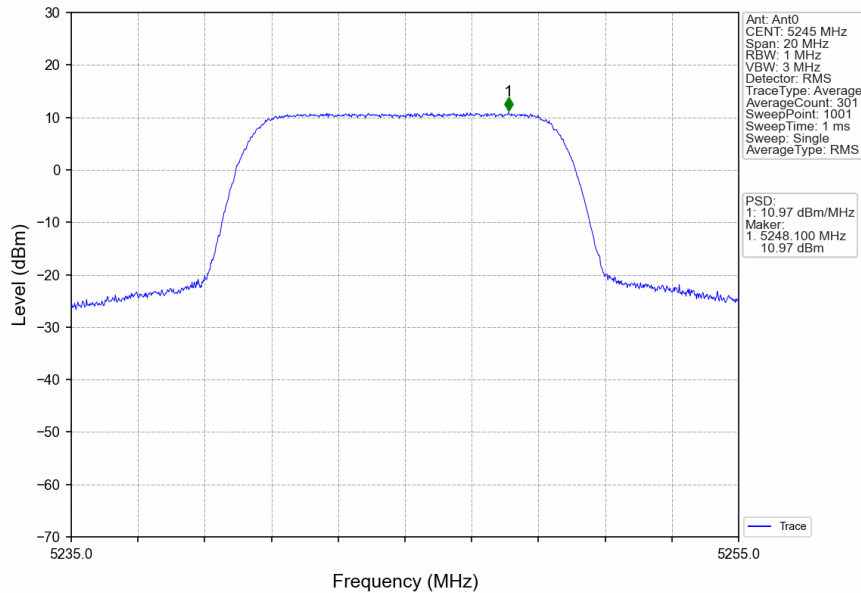
10MHz_MCH_5200MHz_Ant0_NTNV



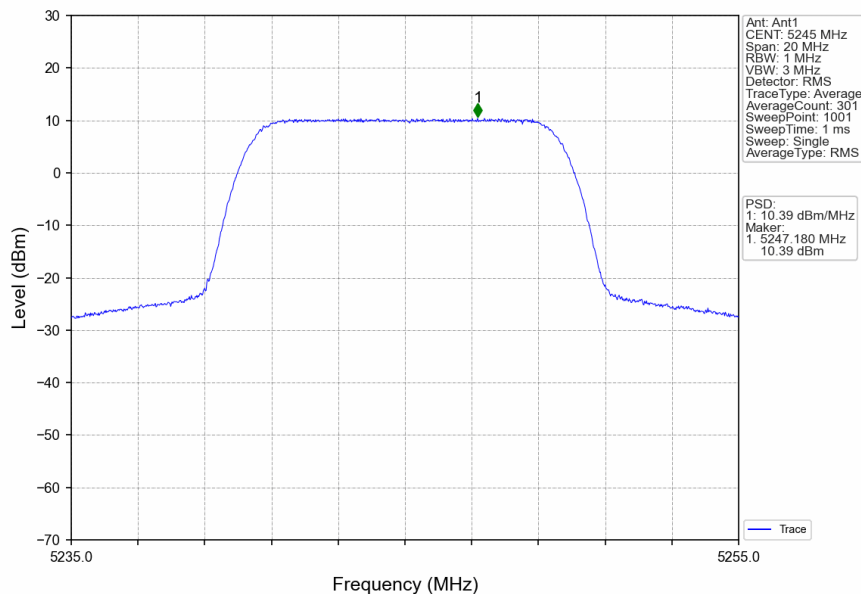
10MHz_MCH_5200MHz_Ant1_NTNV



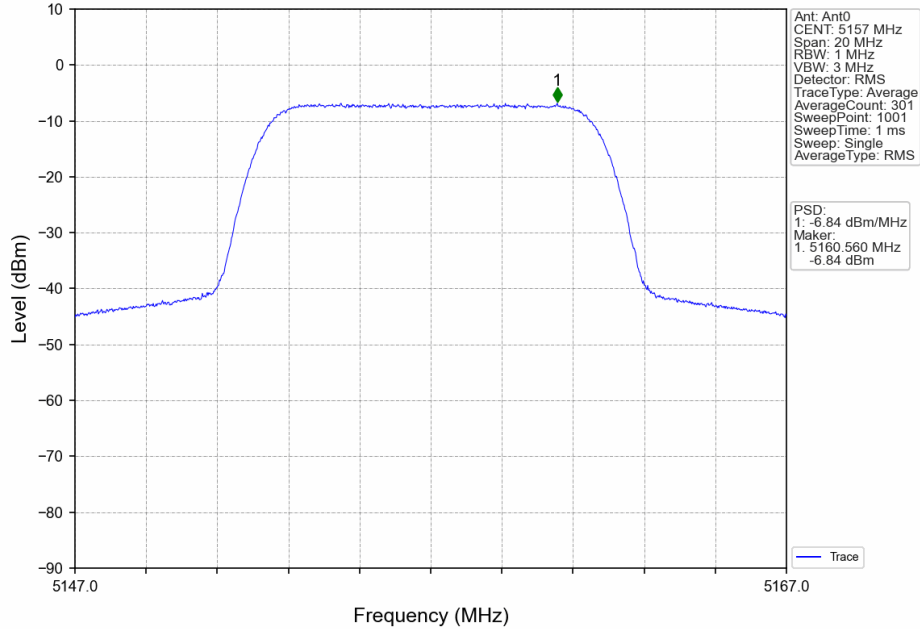
10MHz_HCH_5245MHz_Ant0_NTNV



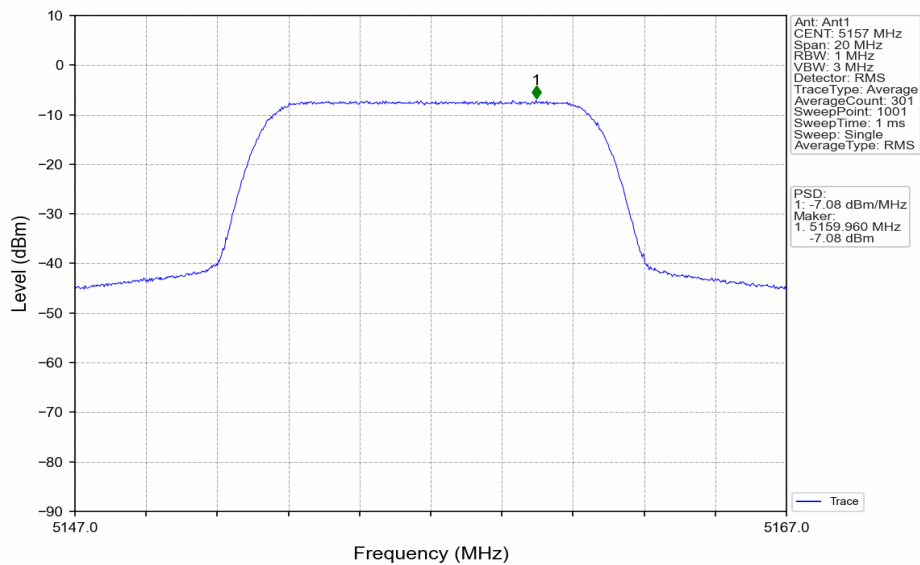
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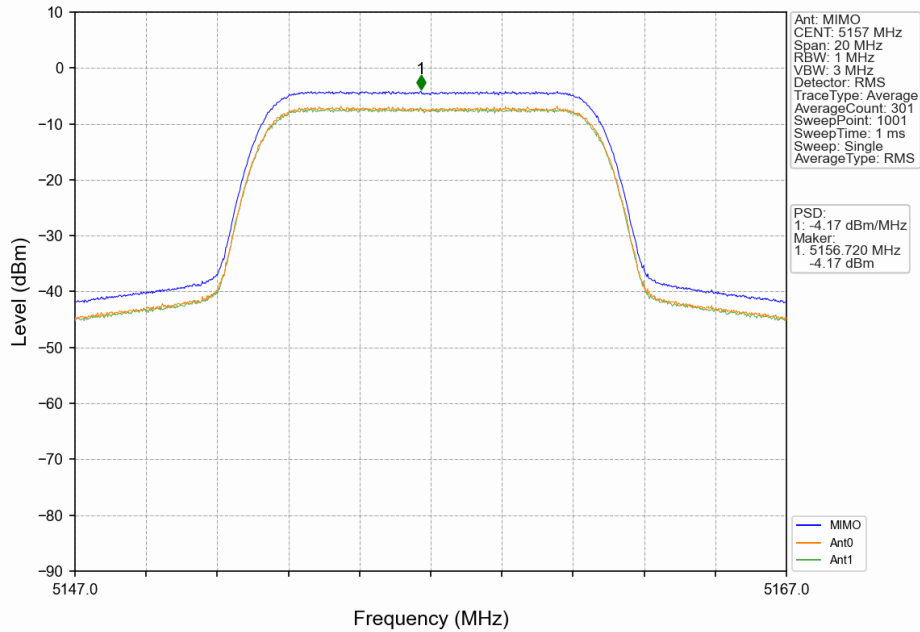
10MHz_LCH_5157MHz_Ant0_NTNV



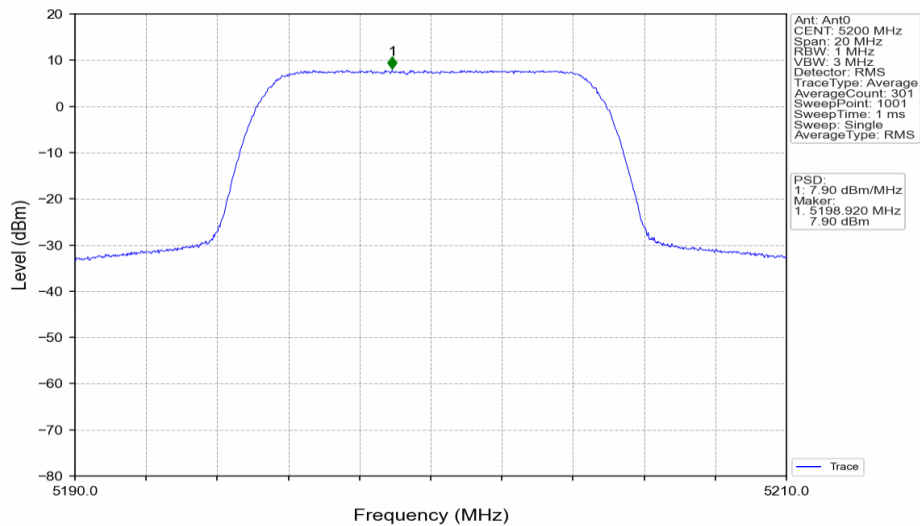
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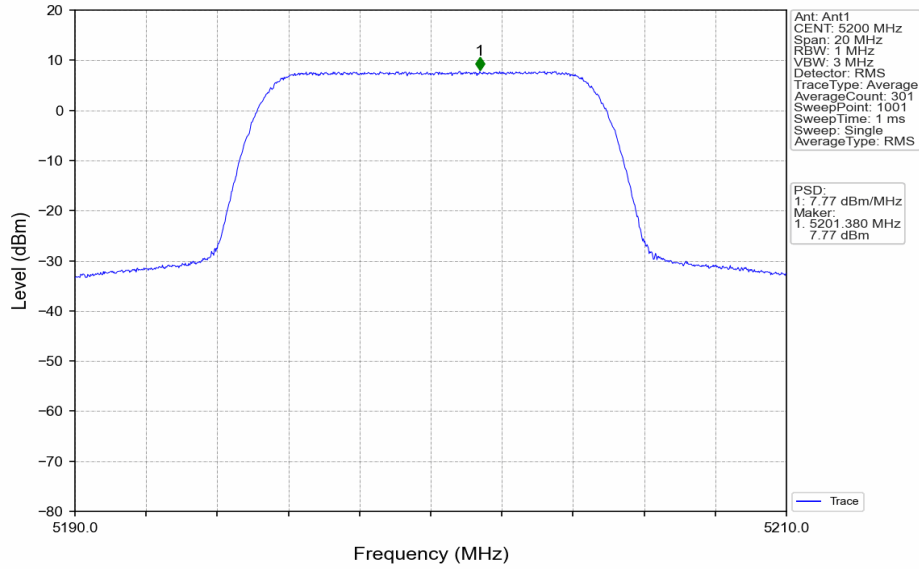
10MHz_LCH_5157MHz_MIMO_NTNV



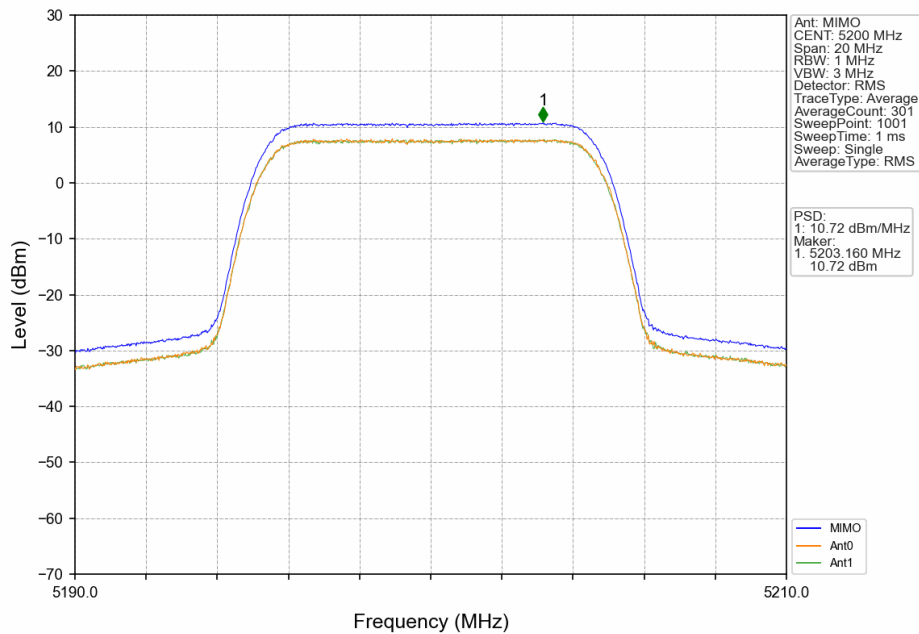
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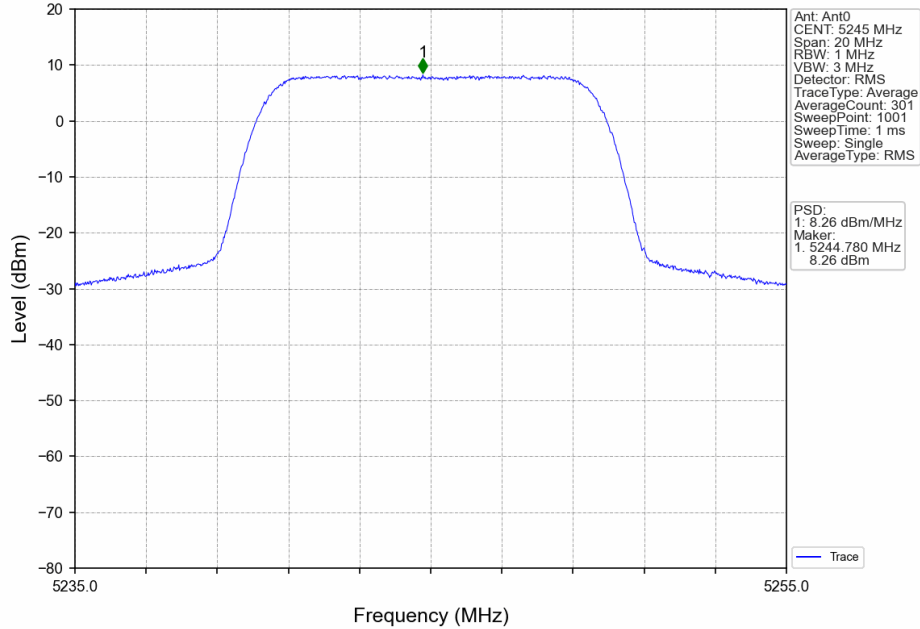
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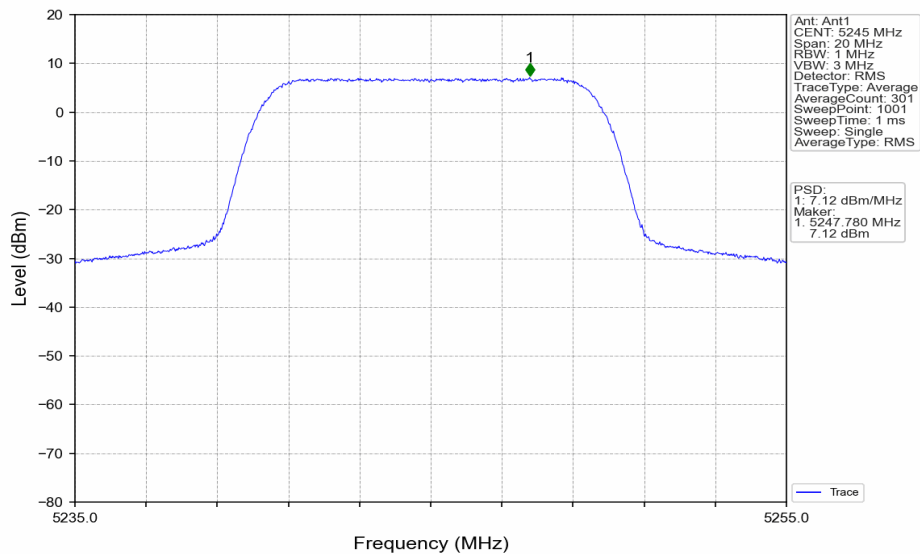
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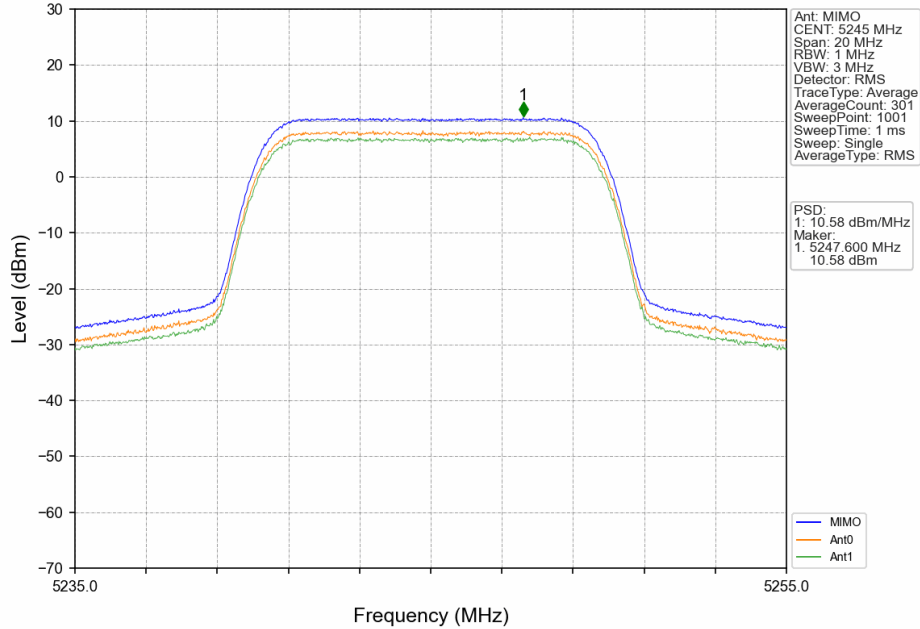
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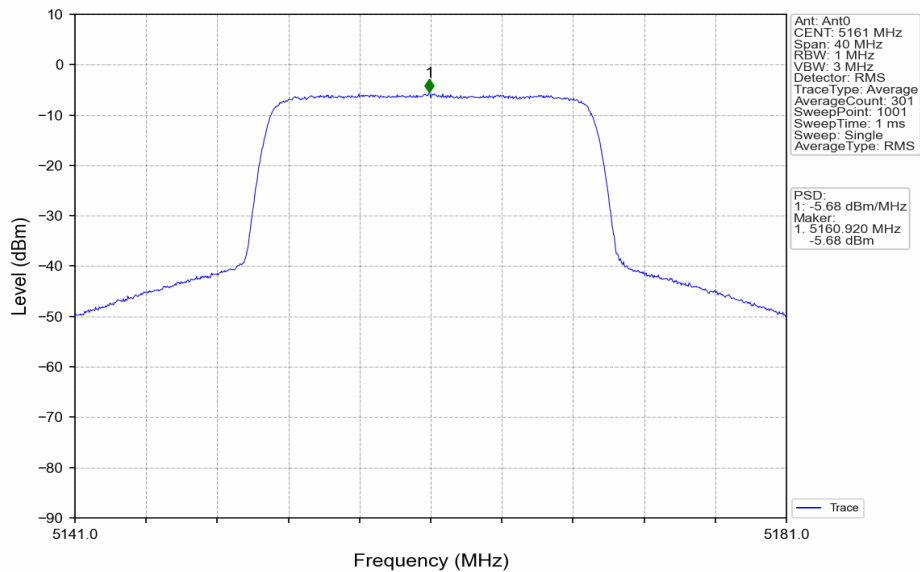
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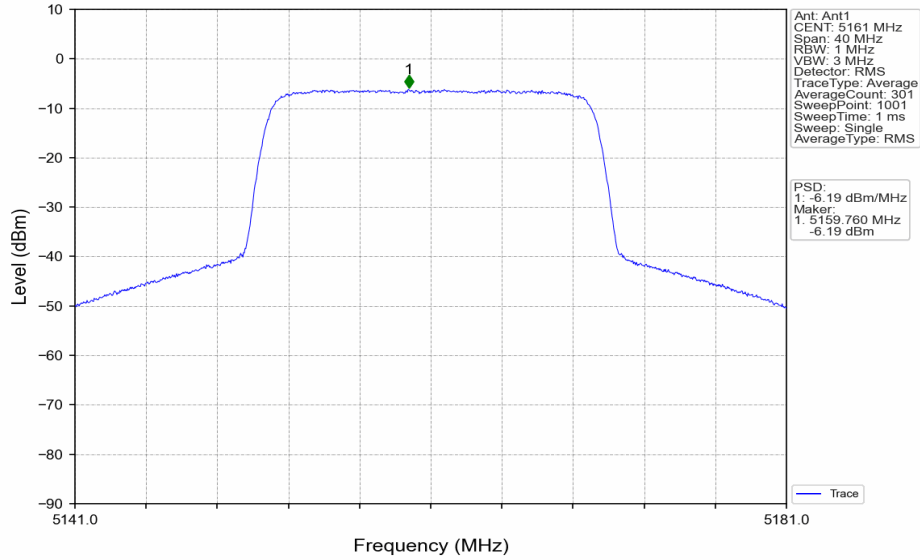
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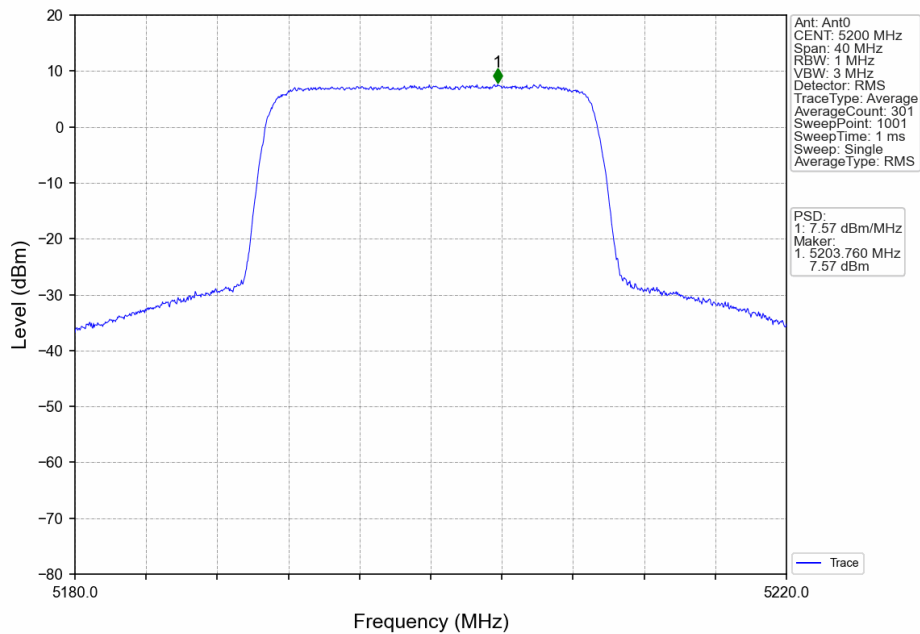
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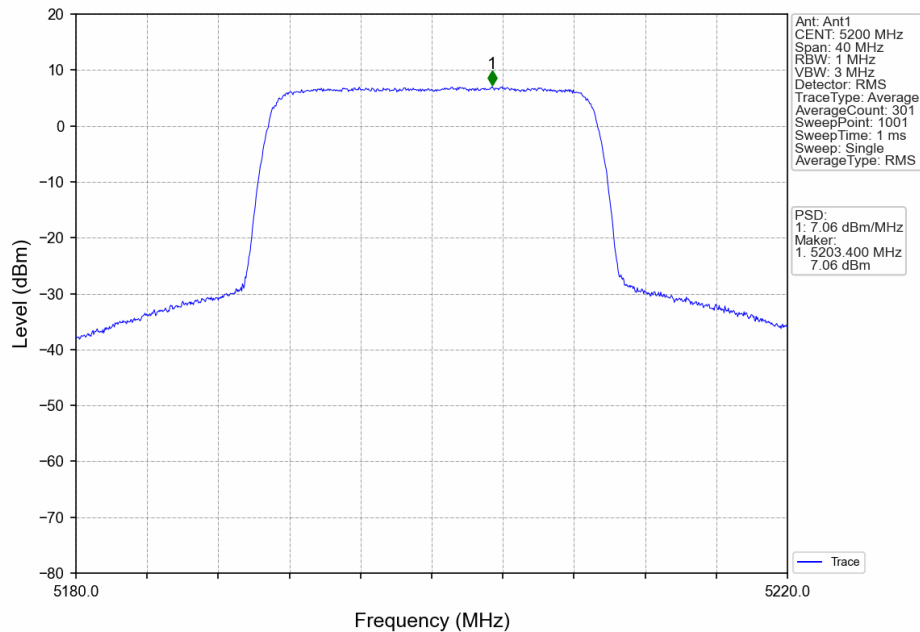
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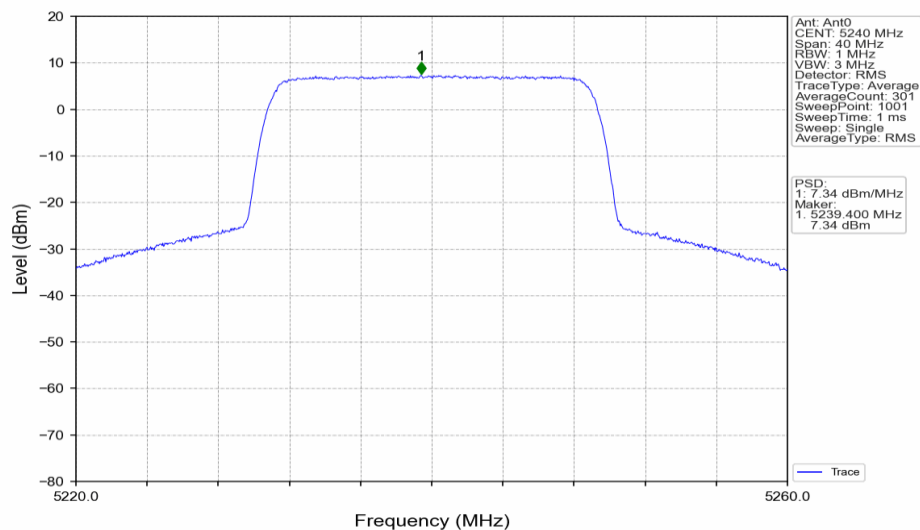
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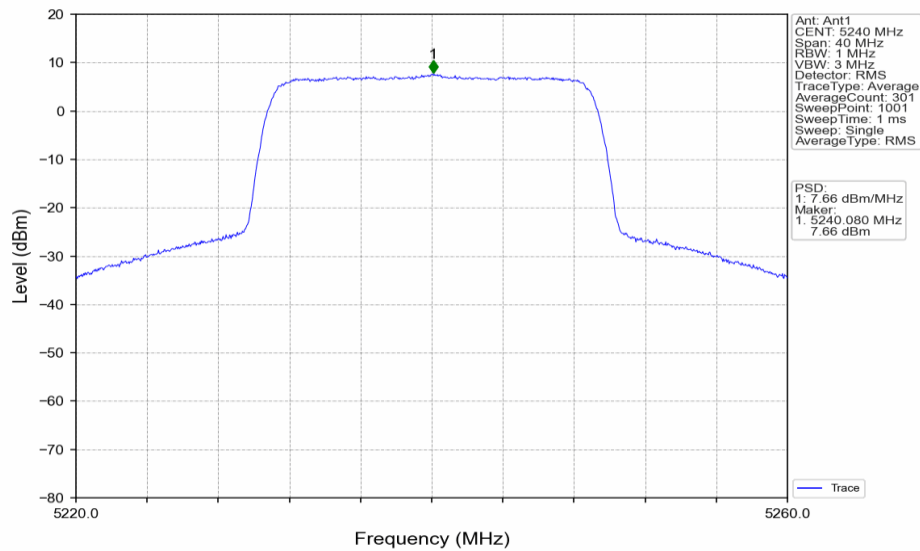
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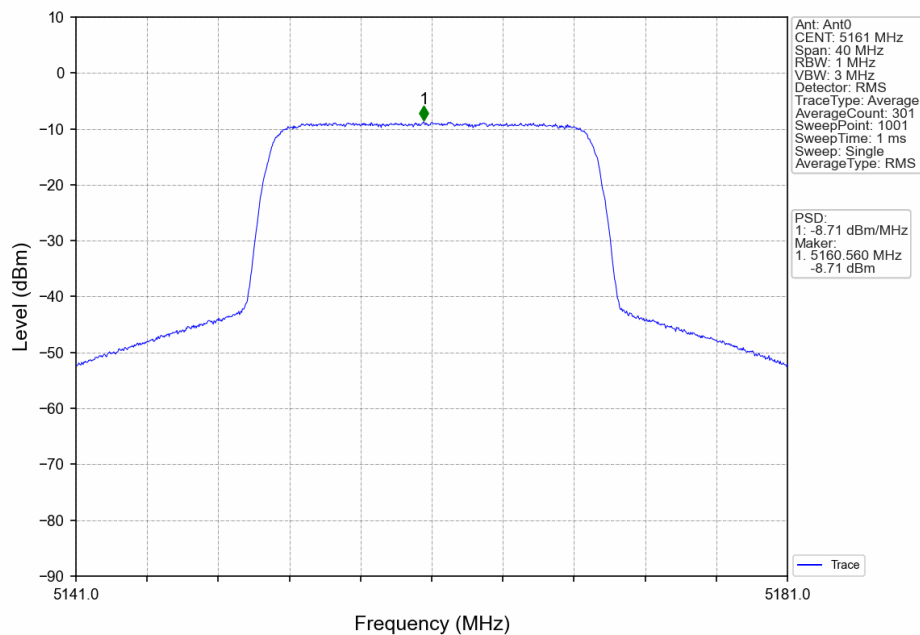
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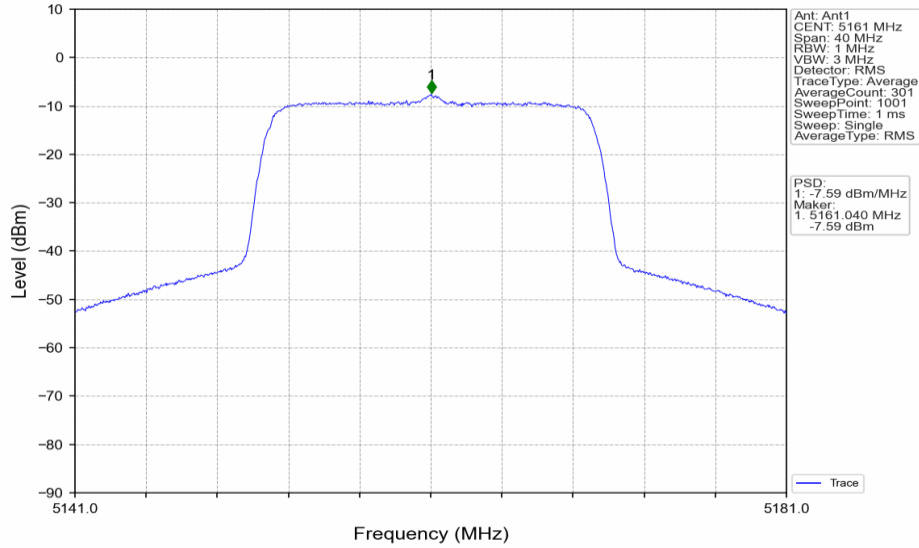
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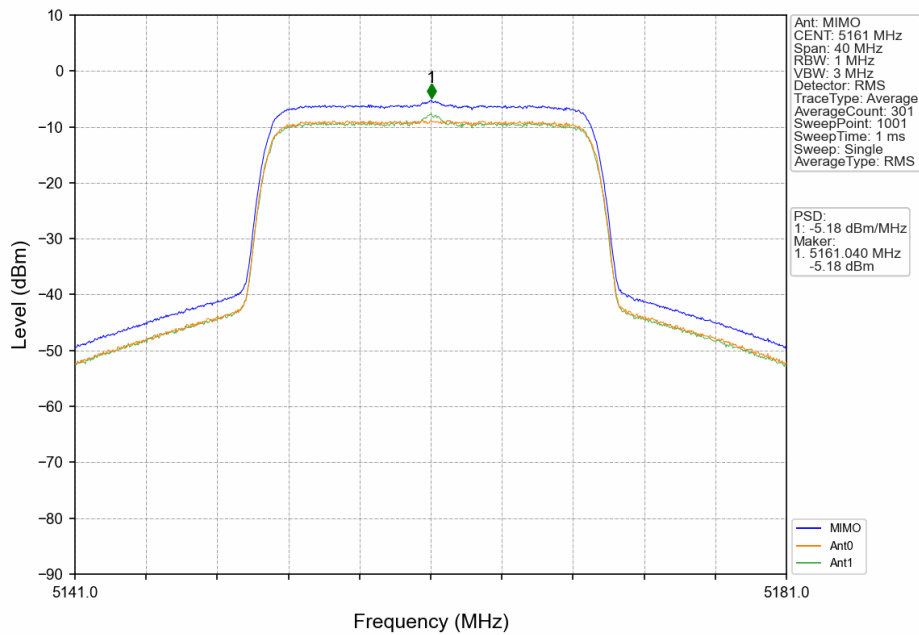
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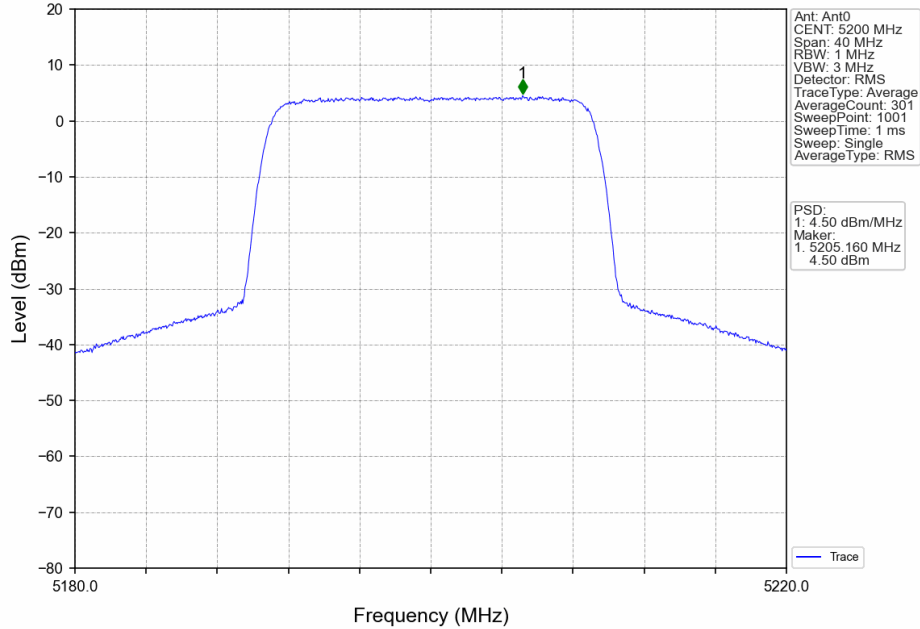
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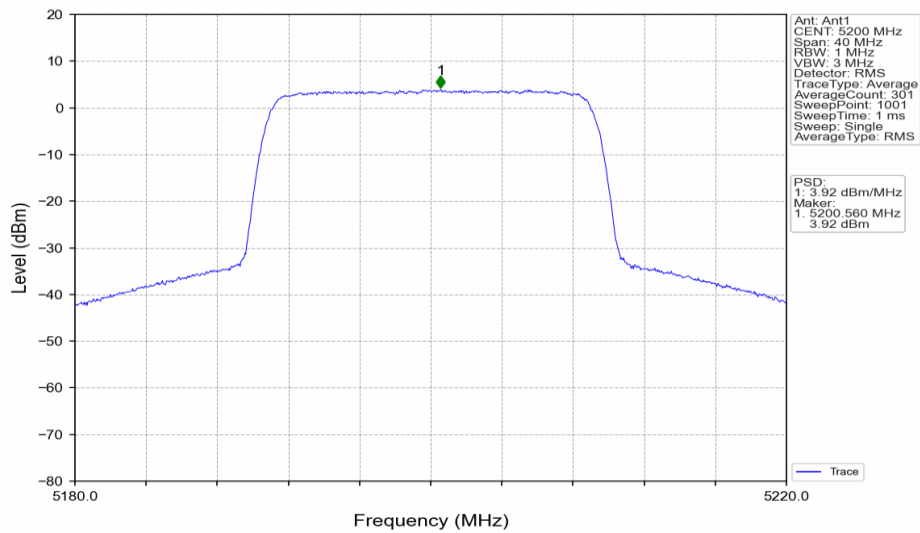
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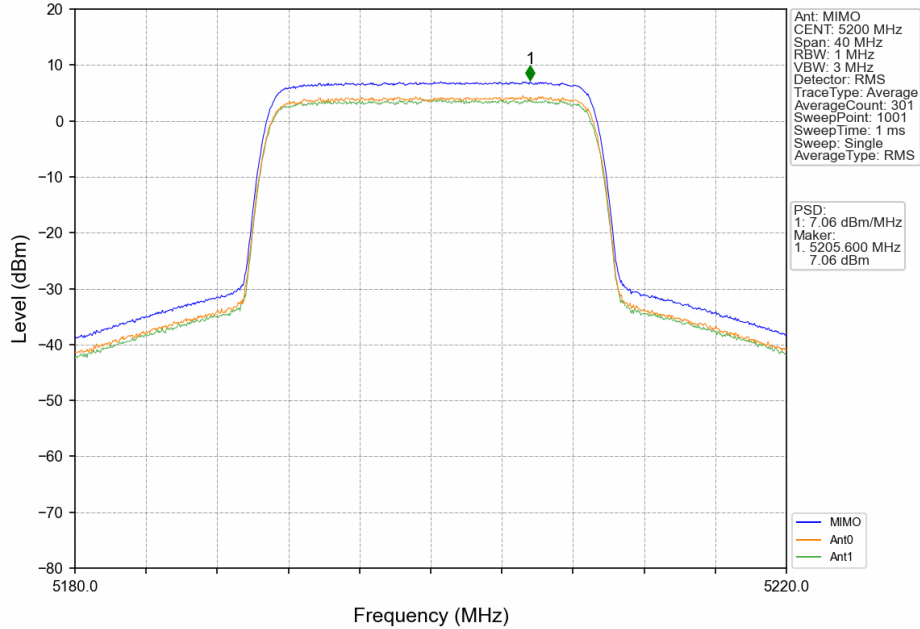
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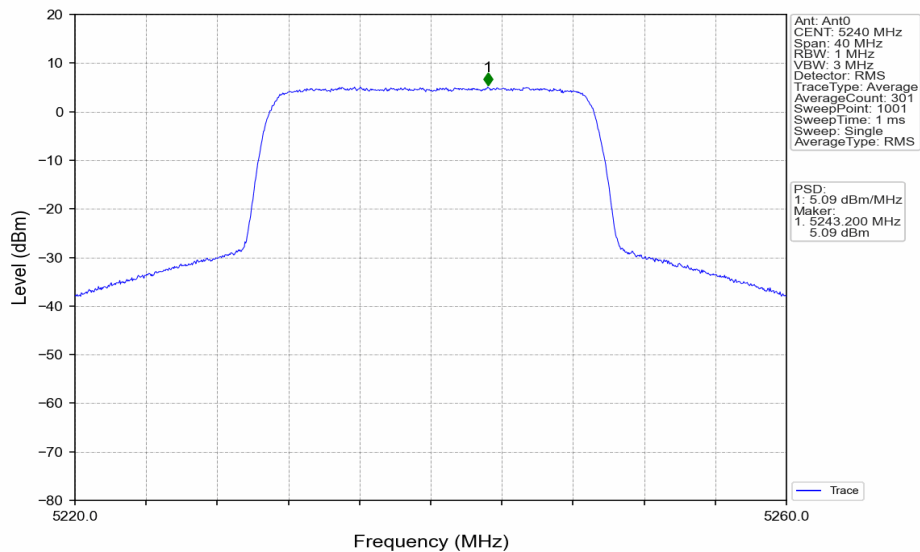
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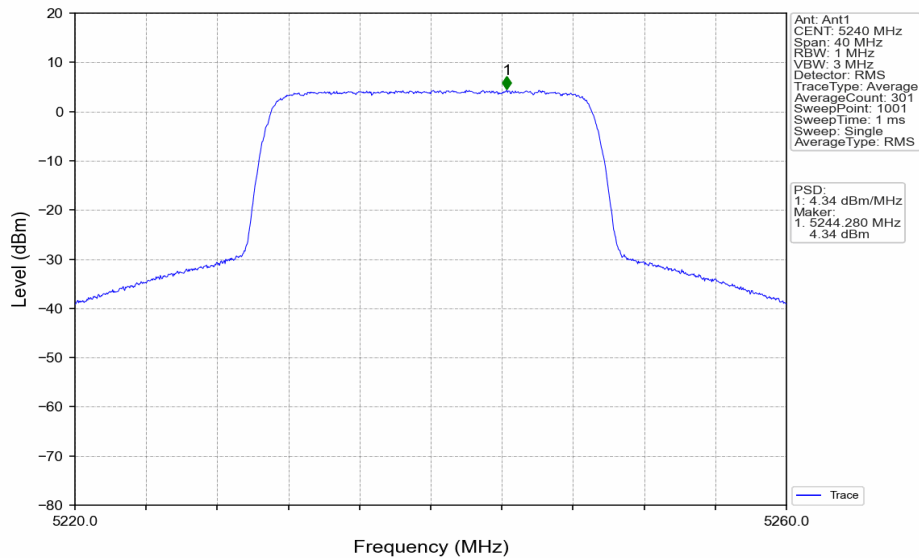
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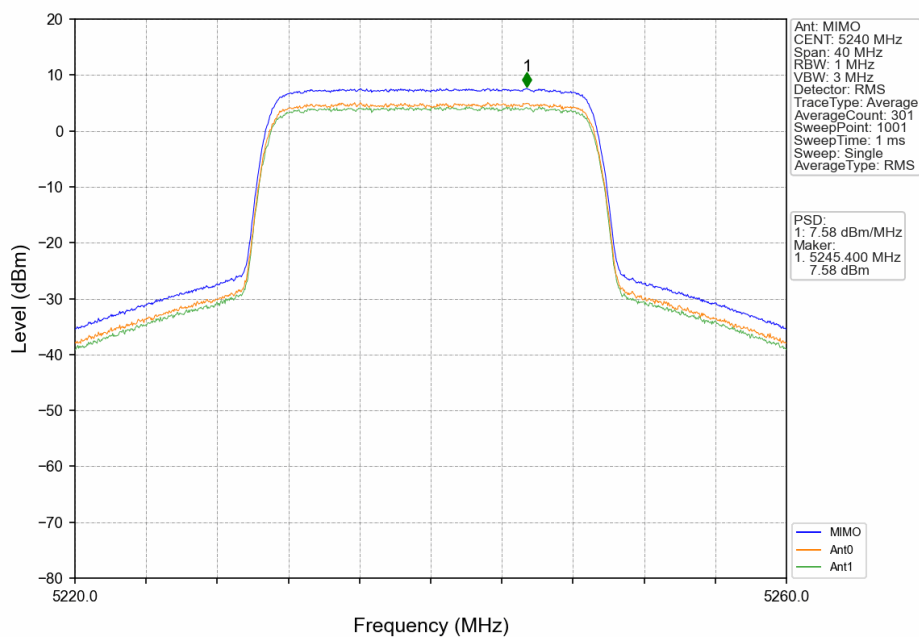
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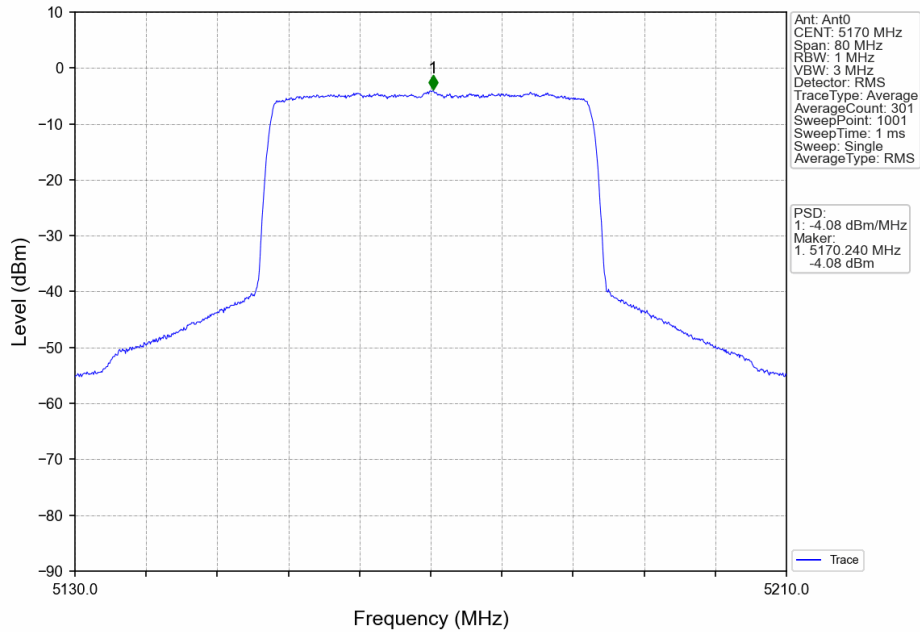
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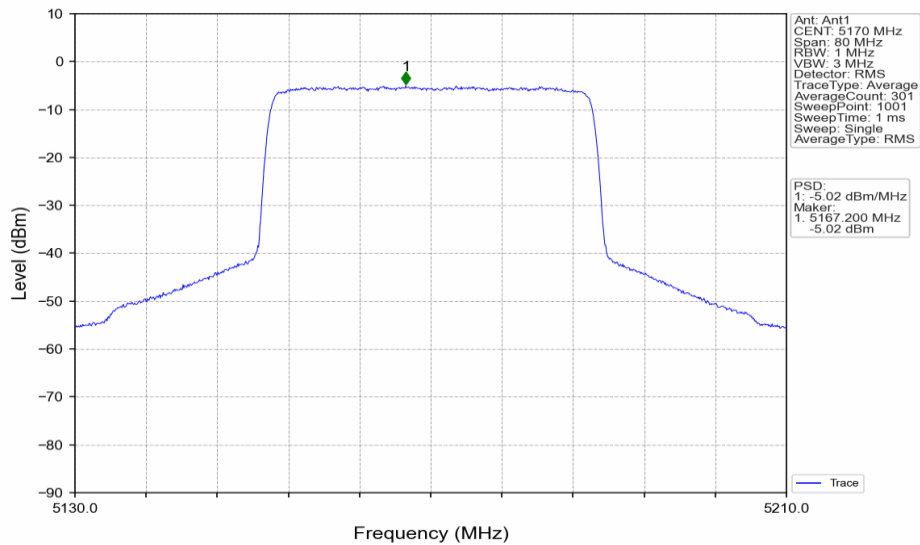
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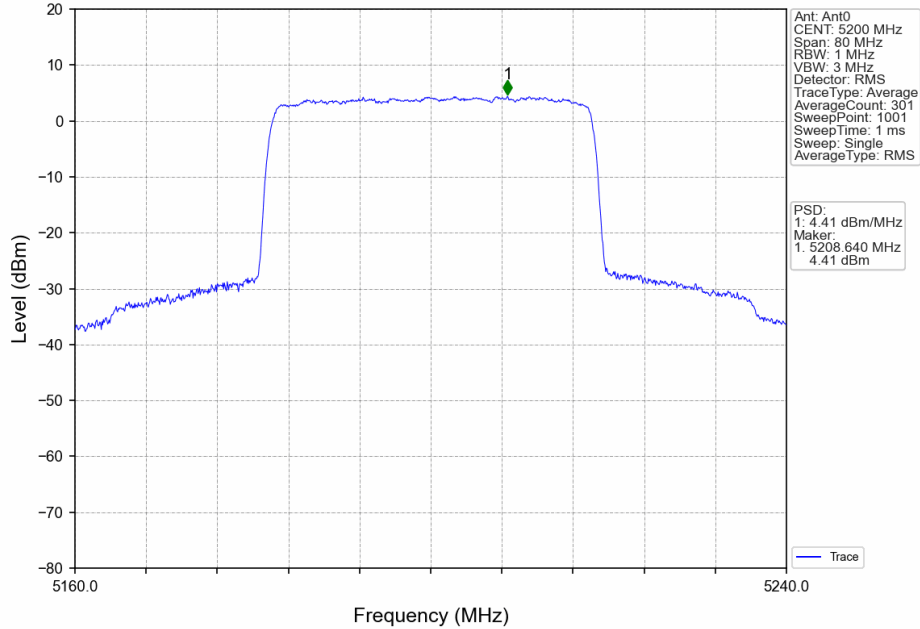
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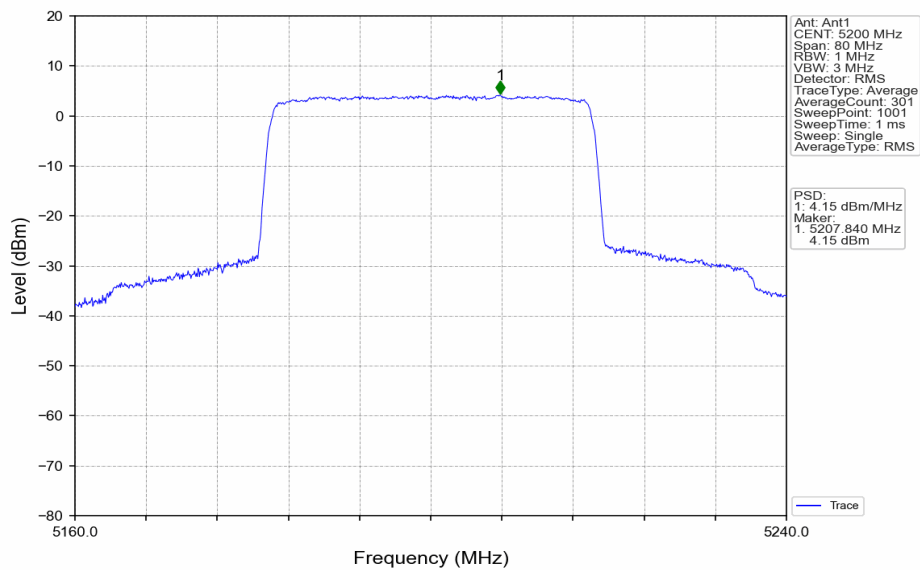
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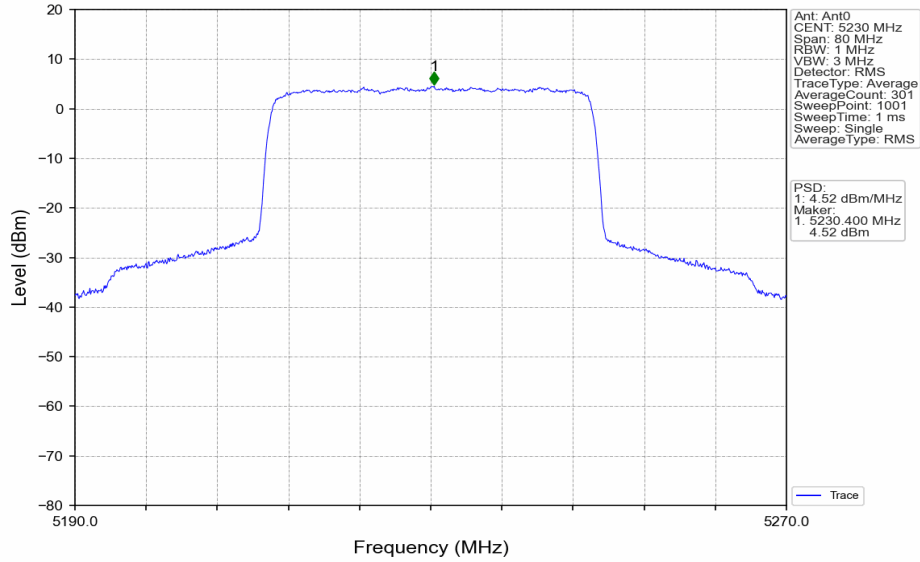
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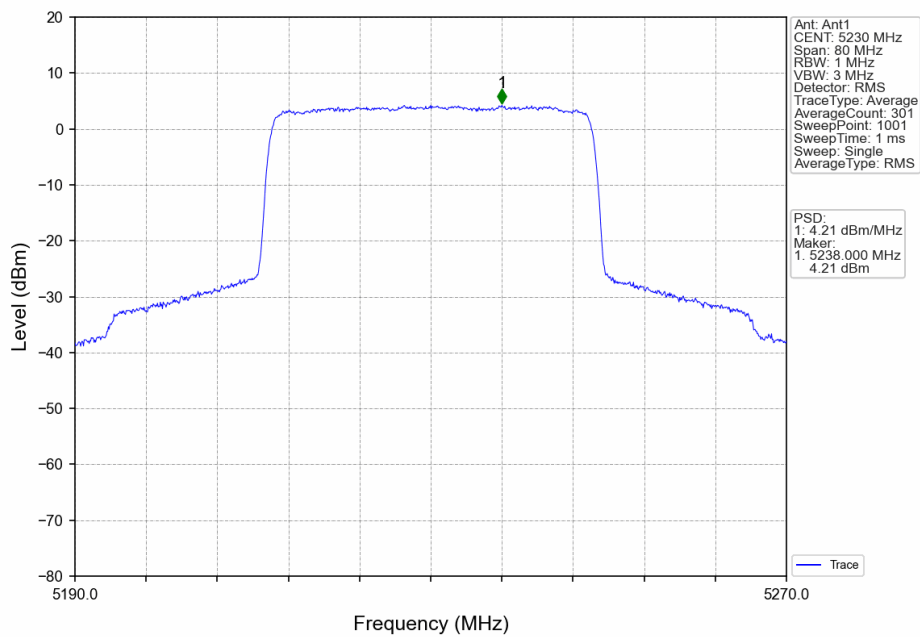
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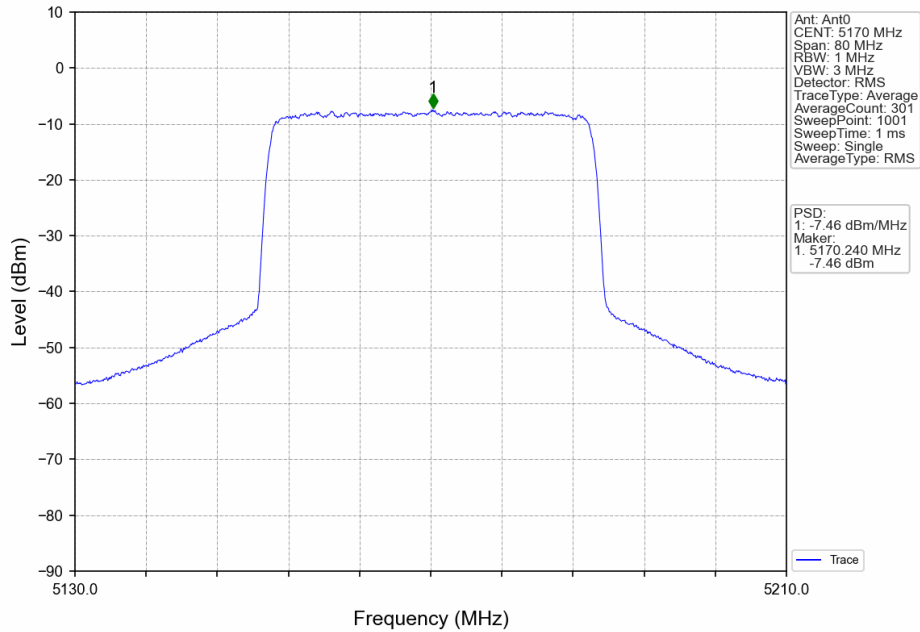
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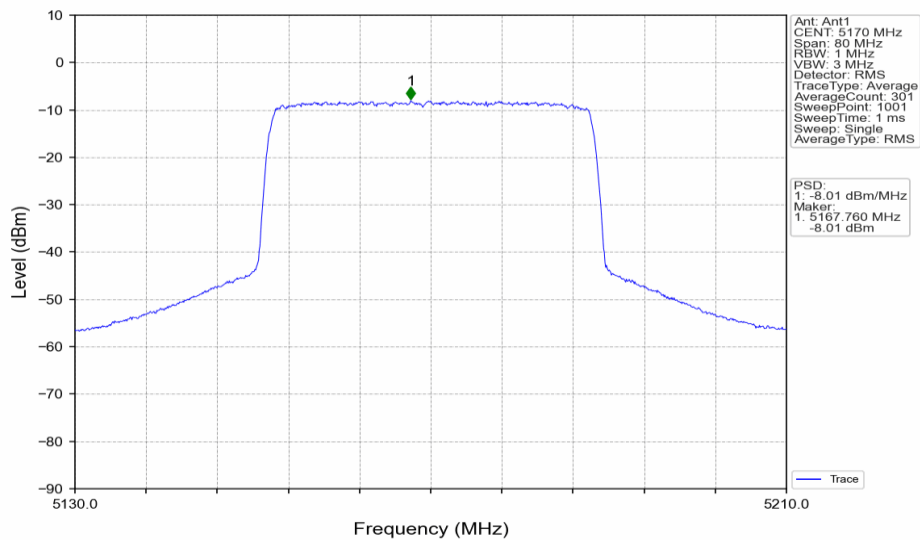
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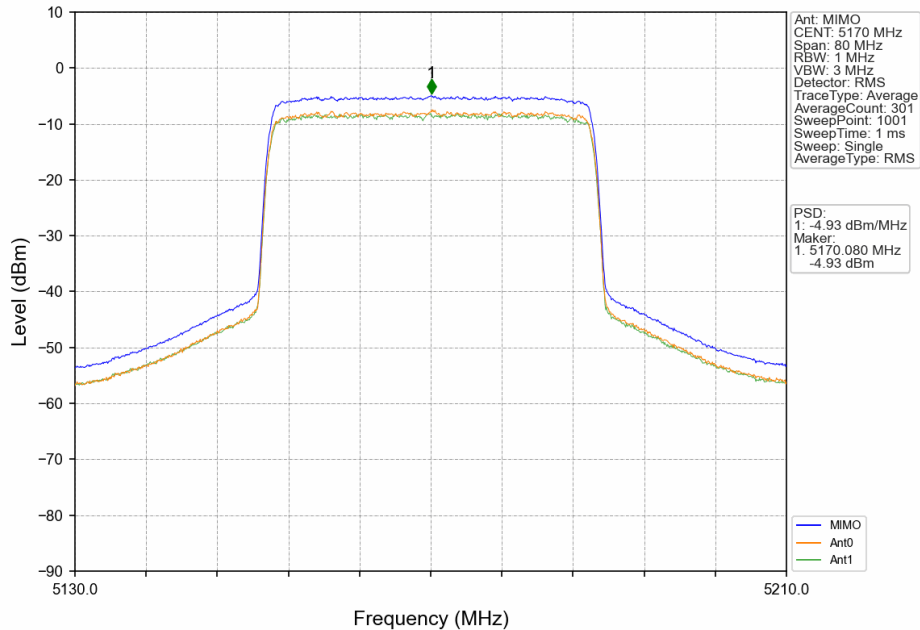
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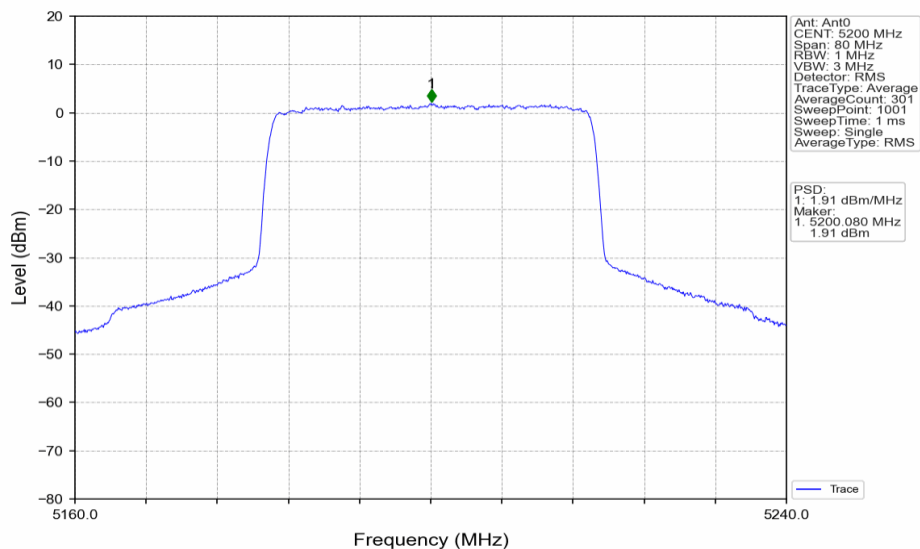
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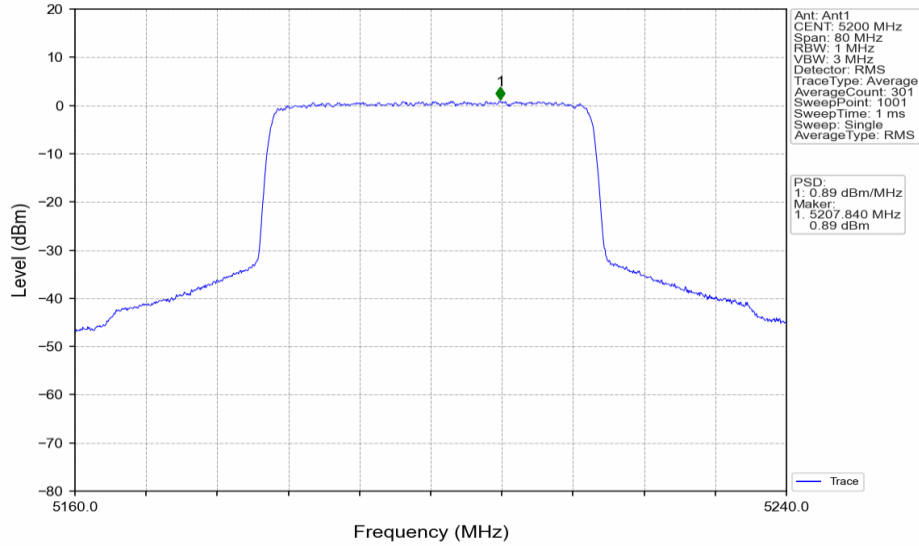
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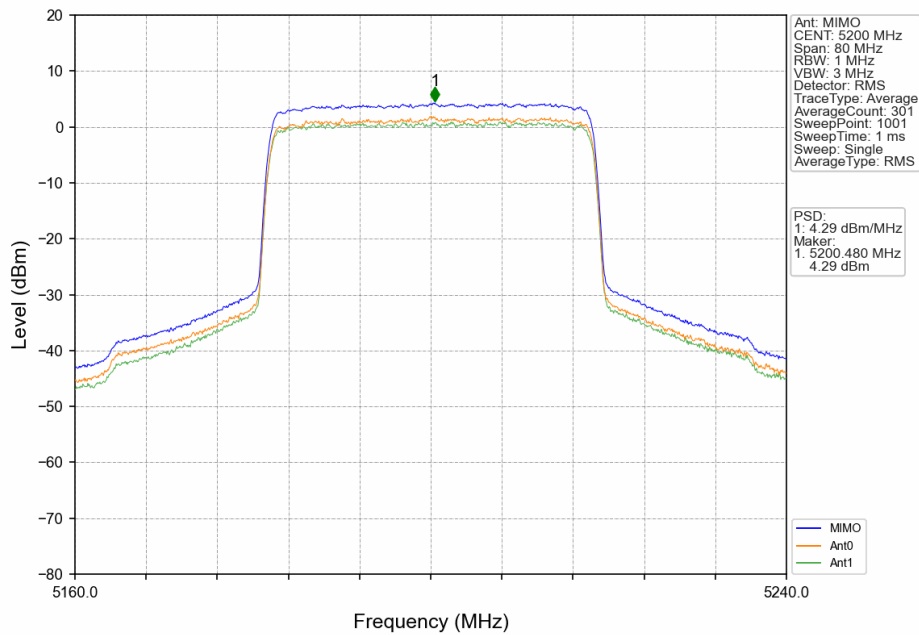
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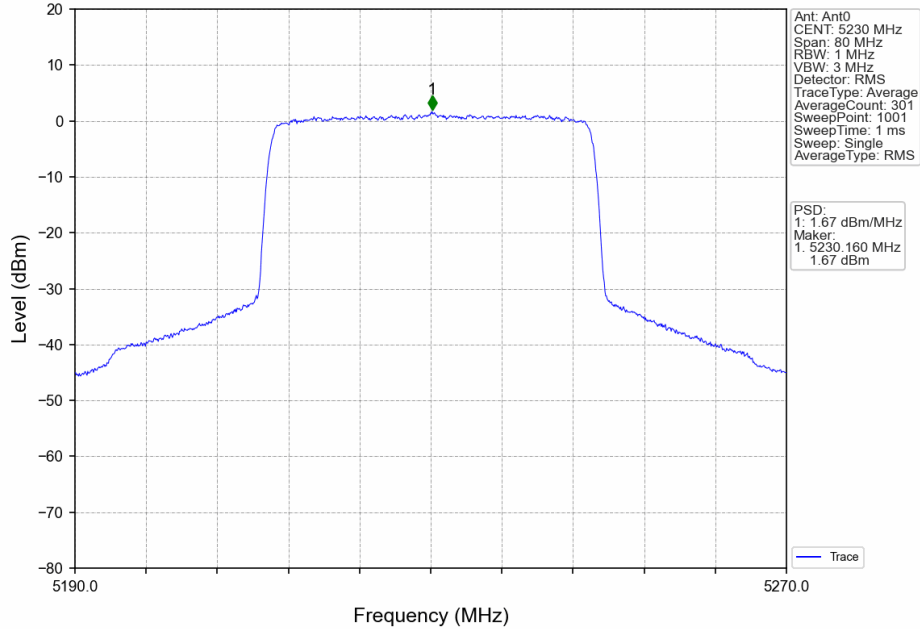
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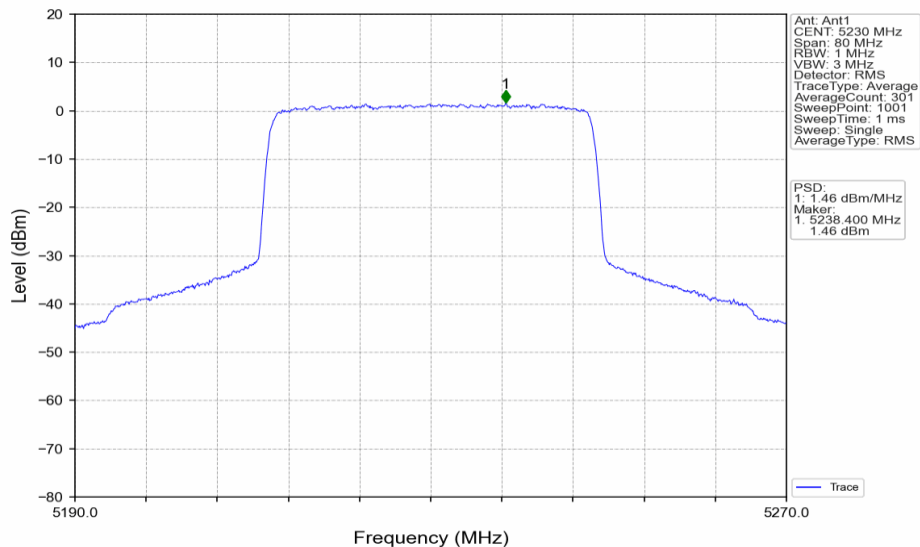
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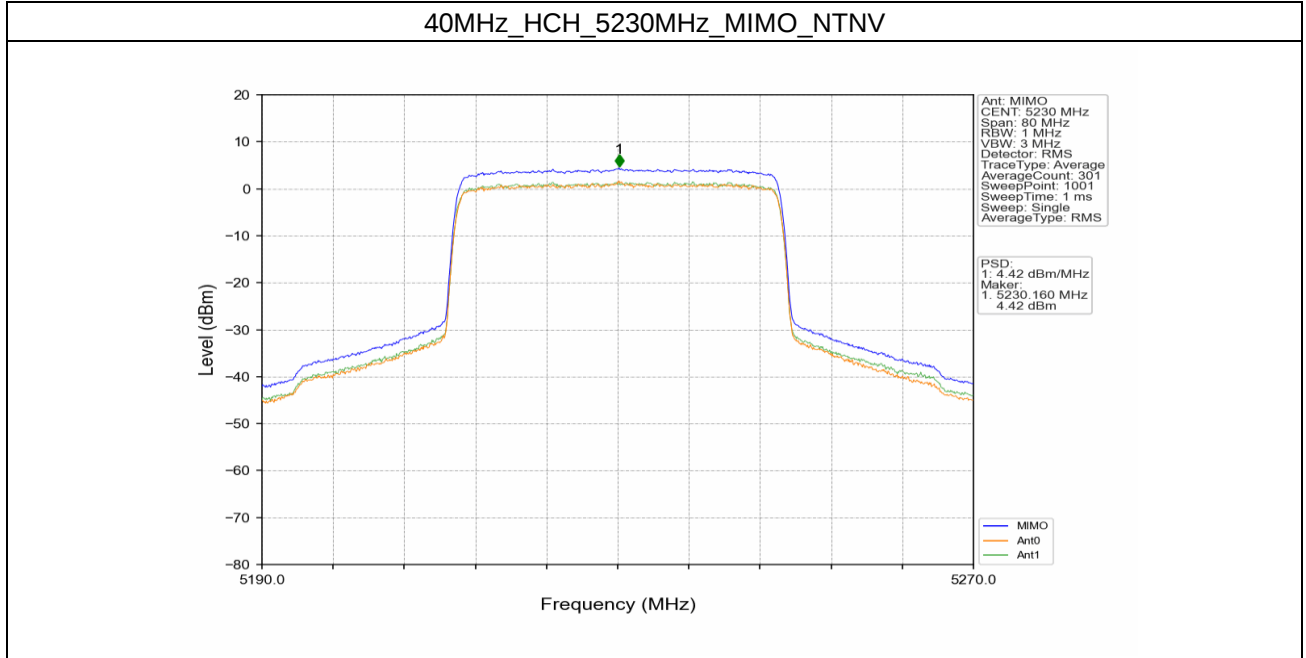


40MHz_HCH_5230MHz_Ant0_NTNV



40MHz_HCH_5230MHz_Ant1_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 (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
10MHz	SISO	5157	20	3.06	5157.050	5150 to 5250	Pass
				3.60	5157.050	5150 to 5250	Pass
				4.14	5157.010	5150 to 5250	Pass
			-10	3.60	5157.030	5150 to 5250	Pass
			-5	3.60	5157.050	5150 to 5250	Pass
			0	3.60	5157.030	5150 to 5250	Pass
			5	3.60	5157.070	5150 to 5250	Pass
			10	3.60	5157.060	5150 to 5250	Pass
			20	3.60	5157.030	5150 to 5250	Pass
			30	3.60	5157.050	5150 to 5250	Pass
			40	3.60	5157.040	5150 to 5250	Pass
		5200	20	3.06	5200.060	5150 to 5250	Pass
				3.60	5200.050	5150 to 5250	Pass
				4.14	5200.030	5150 to 5250	Pass
			-10	3.60	5200.040	5150 to 5250	Pass
			-5	3.60	5200.020	5150 to 5250	Pass
			0	3.60	5200.010	5150 to 5250	Pass
			5	3.60	5200.010	5150 to 5250	Pass
			10	3.60	5200.020	5150 to 5250	Pass
			20	3.60	5200.030	5150 to 5250	Pass
			30	3.60	5200.060	5150 to 5250	Pass
			40	3.60	5200.030	5150 to 5250	Pass
		5245	20	3.06	5245.040	5150 to 5250	Pass
				3.60	5245.060	5150 to 5250	Pass
				4.14	5245.020	5150 to 5250	Pass
			-10	3.60	5245.020	5150 to 5250	Pass
			-5	3.60	5245.030	5150 to 5250	Pass
			0	3.60	5245.030	5150 to 5250	Pass

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20MHz	SISO		5	3.60	5245.060	5150 to 5250	Pass
			10	3.60	5245.040	5150 to 5250	Pass
			20	3.60	5245.040	5150 to 5250	Pass
			30	3.60	5245.070	5150 to 5250	Pass
			40	3.60	5245.020	5150 to 5250	Pass
		5157	20	3.06	5157.050	5150 to 5250	Pass
				3.60	5157.030	5150 to 5250	Pass
				4.14	5157.030	5150 to 5250	Pass
			-10	3.60	5157.040	5150 to 5250	Pass
			-5	3.60	5157.050	5150 to 5250	Pass
			0	3.60	5157.060	5150 to 5250	Pass
			5	3.60	5157.050	5150 to 5250	Pass
			10	3.60	5157.050	5150 to 5250	Pass
			20	3.60	5157.030	5150 to 5250	Pass
			30	3.60	5157.060	5150 to 5250	Pass
			40	3.60	5157.060	5150 to 5250	Pass
		5200	20	3.06	5200.040	5150 to 5250	Pass
				3.60	5200.060	5150 to 5250	Pass
				4.14	5200.040	5150 to 5250	Pass
			-10	3.60	5200.040	5150 to 5250	Pass
			-5	3.60	5200.060	5150 to 5250	Pass
			0	3.60	5200.060	5150 to 5250	Pass
			5	3.60	5200.030	5150 to 5250	Pass
			10	3.60	5200.050	5150 to 5250	Pass
			20	3.60	5200.040	5150 to 5250	Pass
			30	3.60	5200.040	5150 to 5250	Pass
			40	3.60	5200.050	5150 to 5250	Pass
		5245	20	3.06	5245.060	5150 to 5250	Pass
				3.60	5245.030	5150 to 5250	Pass
				4.14	5245.060	5150 to 5250	Pass
			-10	3.60	5245.020	5150 to 5250	Pass
			-5	3.60	5245.070	5150 to 5250	Pass
			0	3.60	5245.050	5150 to 5250	Pass
			5	3.60	5245.060	5150 to 5250	Pass
			10	3.60	5245.030	5150 to 5250	Pass
			20	3.60	5245.030	5150 to 5250	Pass
			30	3.60	5245.050	5150 to 5250	Pass
			40	3.60	5245.040	5150 to 5250	Pass
20MHz	SISO	5161	20	3.06	5161.060	5150 to 5250	Pass



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				3.60	5161.060	5150 to 5250	Pass
				4.14	5161.060	5150 to 5250	Pass
			-10	3.60	5161.060	5150 to 5250	Pass
			-5	3.60	5161.060	5150 to 5250	Pass
			0	3.60	5161.040	5150 to 5250	Pass
			5	3.60	5161.080	5150 to 5250	Pass
			10	3.60	5161.040	5150 to 5250	Pass
			20	3.60	5161.100	5150 to 5250	Pass
			30	3.60	5161.040	5150 to 5250	Pass
			40	3.60	5161.060	5150 to 5250	Pass
		5200	20	3.06	5200.060	5150 to 5250	Pass
				3.60	5200.060	5150 to 5250	Pass
				4.14	5200.080	5150 to 5250	Pass
			-10	3.60	5200.080	5150 to 5250	Pass
			-5	3.60	5200.040	5150 to 5250	Pass
			0	3.60	5200.040	5150 to 5250	Pass
			5	3.60	5200.060	5150 to 5250	Pass
			10	3.60	5200.040	5150 to 5250	Pass
			20	3.60	5200.080	5150 to 5250	Pass
			30	3.60	5200.080	5150 to 5250	Pass
			40	3.60	5200.080	5150 to 5250	Pass
		5240	20	3.06	5240.080	5150 to 5250	Pass
				3.60	5240.080	5150 to 5250	Pass
				4.14	5240.060	5150 to 5250	Pass
			-10	3.60	5240.080	5150 to 5250	Pass
			-5	3.60	5240.100	5150 to 5250	Pass
			0	3.60	5240.040	5150 to 5250	Pass
			5	3.60	5240.080	5150 to 5250	Pass
			10	3.60	5240.060	5150 to 5250	Pass
			20	3.60	5240.080	5150 to 5250	Pass
			30	3.60	5240.040	5150 to 5250	Pass
			40	3.60	5240.080	5150 to 5250	Pass
	MIMO	5161	20	3.06	5161.040	5150 to 5250	Pass
				3.60	5161.080	5150 to 5250	Pass
				4.14	5161.060	5150 to 5250	Pass
			-10	3.60	5161.020	5150 to 5250	Pass
			-5	3.60	5161.040	5150 to 5250	Pass
			0	3.60	5161.040	5150 to 5250	Pass
			5	3.60	5161.020	5150 to 5250	Pass



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40MHz	SISO		10	3.60	5161.080	5150 to 5250	Pass
			20	3.60	5161.080	5150 to 5250	Pass
			30	3.60	5161.040	5150 to 5250	Pass
			40	3.60	5161.060	5150 to 5250	Pass
		5200	20	3.06	5200.040	5150 to 5250	Pass
				3.60	5200.080	5150 to 5250	Pass
				4.14	5200.060	5150 to 5250	Pass
			-10	3.60	5200.060	5150 to 5250	Pass
			-5	3.60	5200.060	5150 to 5250	Pass
			0	3.60	5200.060	5150 to 5250	Pass
			5	3.60	5200.060	5150 to 5250	Pass
			10	3.60	5200.060	5150 to 5250	Pass
			20	3.60	5200.040	5150 to 5250	Pass
			30	3.60	5200.040	5150 to 5250	Pass
			40	3.60	5200.060	5150 to 5250	Pass
		5240	20	3.06	5240.040	5150 to 5250	Pass
				3.60	5240.040	5150 to 5250	Pass
				4.14	5240.080	5150 to 5250	Pass
			-10	3.60	5240.060	5150 to 5250	Pass
			-5	3.60	5240.060	5150 to 5250	Pass
			0	3.60	5240.040	5150 to 5250	Pass
			5	3.60	5240.100	5150 to 5250	Pass
			10	3.60	5240.120	5150 to 5250	Pass
			20	3.60	5240.040	5150 to 5250	Pass
			30	3.60	5240.020	5150 to 5250	Pass
			40	3.60	5240.100	5150 to 5250	Pass
		5170	20	3.06	5170.080	5150 to 5250	Pass
				3.60	5170.160	5150 to 5250	Pass
				4.14	5170.120	5150 to 5250	Pass
			-10	3.60	5170.120	5150 to 5250	Pass
			-5	3.60	5170.120	5150 to 5250	Pass
			0	3.60	5170.160	5150 to 5250	Pass
			5	3.60	5170.120	5150 to 5250	Pass
			10	3.60	5170.120	5150 to 5250	Pass
			20	3.60	5170.120	5150 to 5250	Pass
			30	3.60	5170.120	5150 to 5250	Pass
			40	3.60	5170.120	5150 to 5250	Pass
		5200	20	3.06	5200.160	5150 to 5250	Pass
				3.60	5200.120	5150 to 5250	Pass



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MIMO				4.14	5200.080	5150 to 5250	Pass
			-10	3.60	5200.120	5150 to 5250	Pass
			-5	3.60	5200.120	5150 to 5250	Pass
			0	3.60	5200.120	5150 to 5250	Pass
			5	3.60	5200.120	5150 to 5250	Pass
			10	3.60	5200.120	5150 to 5250	Pass
			20	3.60	5200.120	5150 to 5250	Pass
			30	3.60	5200.120	5150 to 5250	Pass
			40	3.60	5200.120	5150 to 5250	Pass
		5230	20	3.06	5230.120	5150 to 5250	Pass
				3.60	5230.120	5150 to 5250	Pass
				4.14	5230.120	5150 to 5250	Pass
			-10	3.60	5230.120	5150 to 5250	Pass
			-5	3.60	5230.120	5150 to 5250	Pass
			0	3.60	5230.120	5150 to 5250	Pass
			5	3.60	5230.120	5150 to 5250	Pass
			10	3.60	5230.120	5150 to 5250	Pass
			20	3.60	5230.120	5150 to 5250	Pass
			30	3.60	5230.120	5150 to 5250	Pass
			40	3.60	5230.120	5150 to 5250	Pass
		5170	20	3.06	5170.080	5150 to 5250	Pass
				3.60	5170.120	5150 to 5250	Pass
				4.14	5170.120	5150 to 5250	Pass
			-10	3.60	5170.080	5150 to 5250	Pass
			-5	3.60	5170.160	5150 to 5250	Pass
			0	3.60	5170.080	5150 to 5250	Pass
			5	3.60	5170.080	5150 to 5250	Pass
			10	3.60	5170.080	5150 to 5250	Pass
			20	3.60	5170.080	5150 to 5250	Pass
			30	3.60	5170.080	5150 to 5250	Pass
			40	3.60	5170.080	5150 to 5250	Pass
		5200	20	3.06	5200.080	5150 to 5250	Pass
				3.60	5200.040	5150 to 5250	Pass
				4.14	5200.080	5150 to 5250	Pass
			-10	3.60	5200.040	5150 to 5250	Pass
			-5	3.60	5200.080	5150 to 5250	Pass
			0	3.60	5200.080	5150 to 5250	Pass
			5	3.60	5200.080	5150 to 5250	Pass
			10	3.60	5200.080	5150 to 5250	Pass



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			20	3.60	5200.080	5150 to 5250	Pass
			30	3.60	5200.080	5150 to 5250	Pass
			40	3.60	5200.120	5150 to 5250	Pass
		5230	20	3.06	5230.120	5150 to 5250	Pass
				3.60	5230.120	5150 to 5250	Pass
				4.14	5230.080	5150 to 5250	Pass
			-10	3.60	5230.080	5150 to 5250	Pass
			-5	3.60	5230.080	5150 to 5250	Pass
			0	3.60	5230.080	5150 to 5250	Pass
			5	3.60	5230.080	5150 to 5250	Pass
			10	3.60	5230.080	5150 to 5250	Pass
			20	3.60	5230.120	5150 to 5250	Pass
			30	3.60	5230.080	5150 to 5250	Pass
			40	3.60	5230.080	5150 to 5250	Pass



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5.1G SDR Partial mode: SISO

1. Duty Cycle

1.1 Ant0

1.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
20M RU	SISO	5156	100.000	100.000	100.00	0.00	0.00
		5195	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
40M RU	SISO	5160	100.000	100.000	100.00	0.00	0.00
		5190	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00



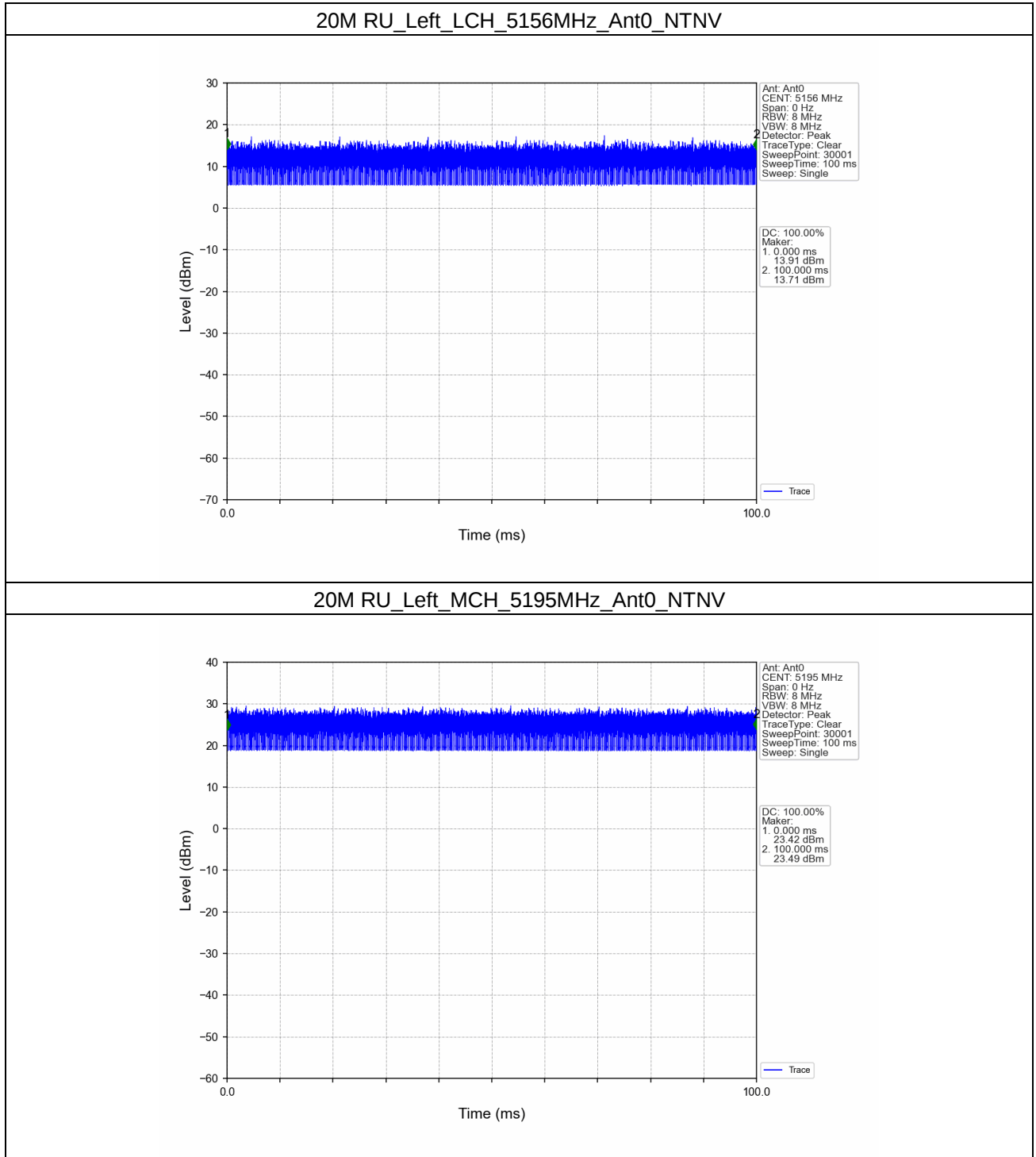
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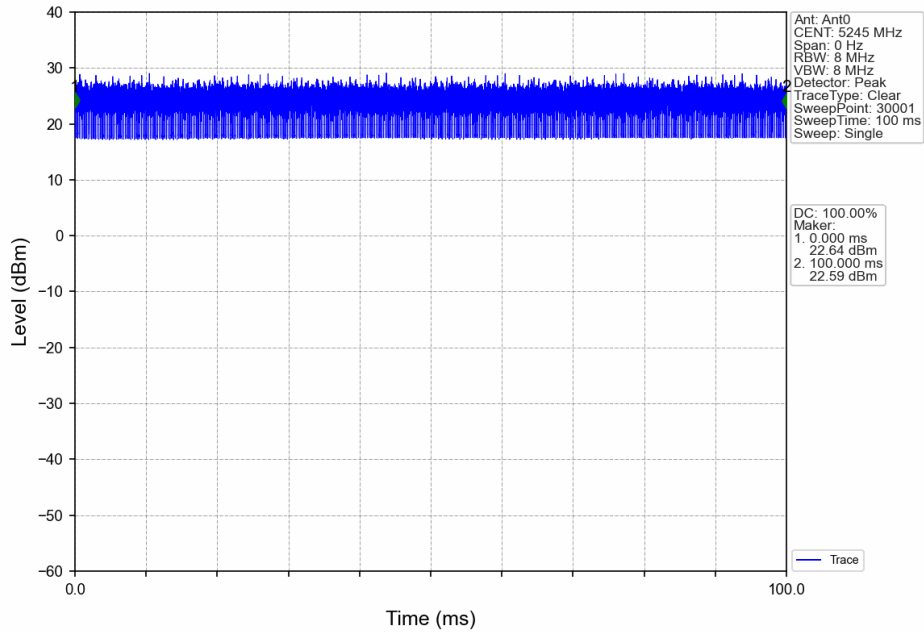
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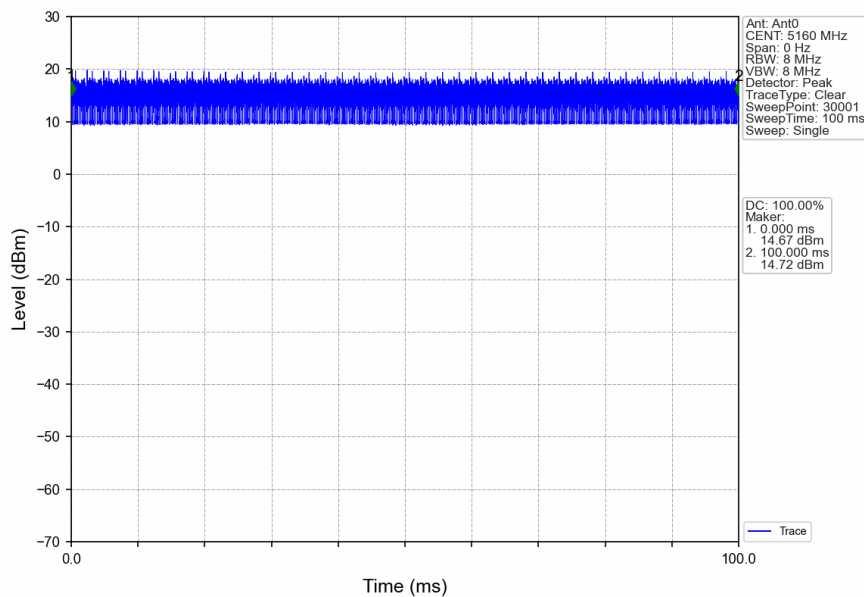
1.1.2 Test Graph



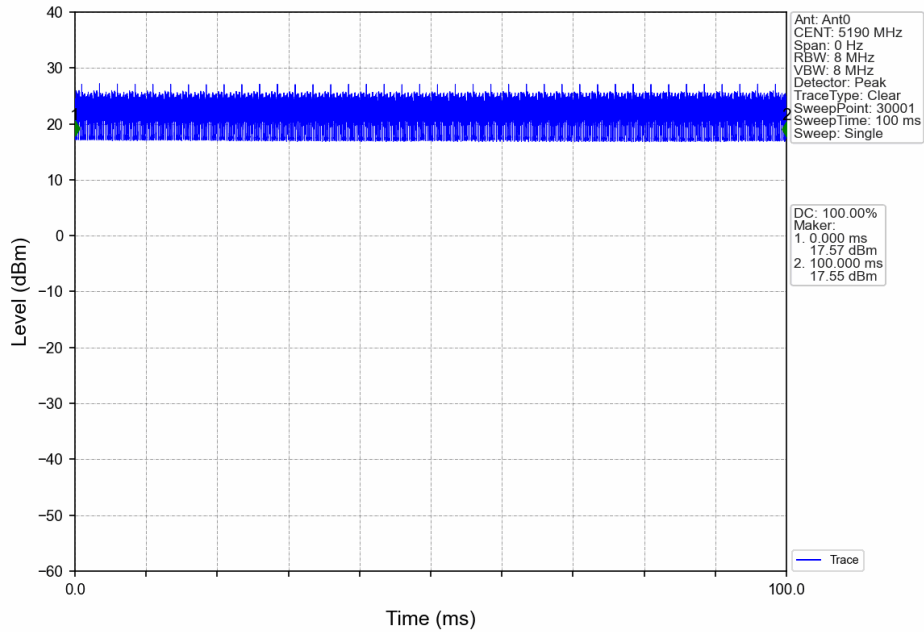
20M RU_Right_HCH_5245MHz_Ant0_NTNV



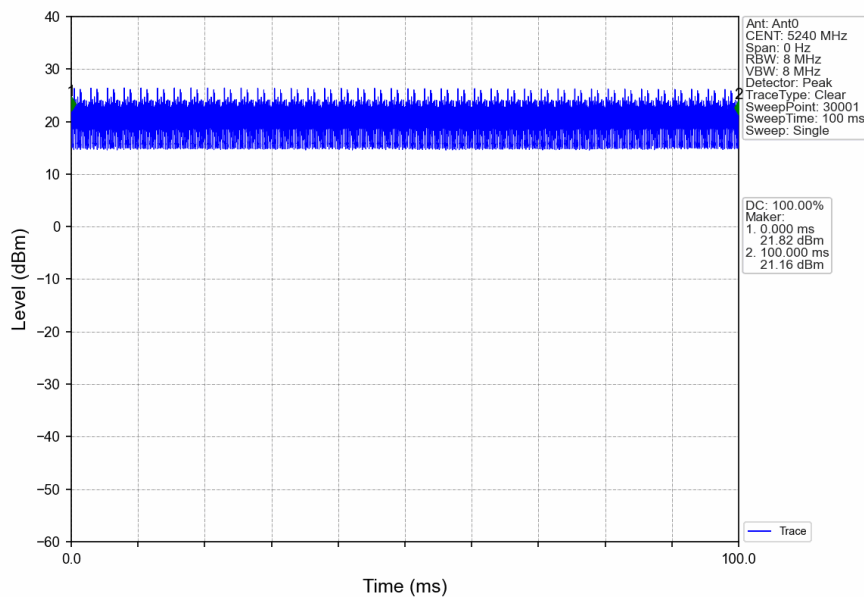
40M RU_LCH_Left_5160MHz_Ant0_NTNV



40M RU_Left_MCH_5190MHz_Ant0_NTNV



40M RU_Right_HCH_5240MHz_Ant0_NTNV



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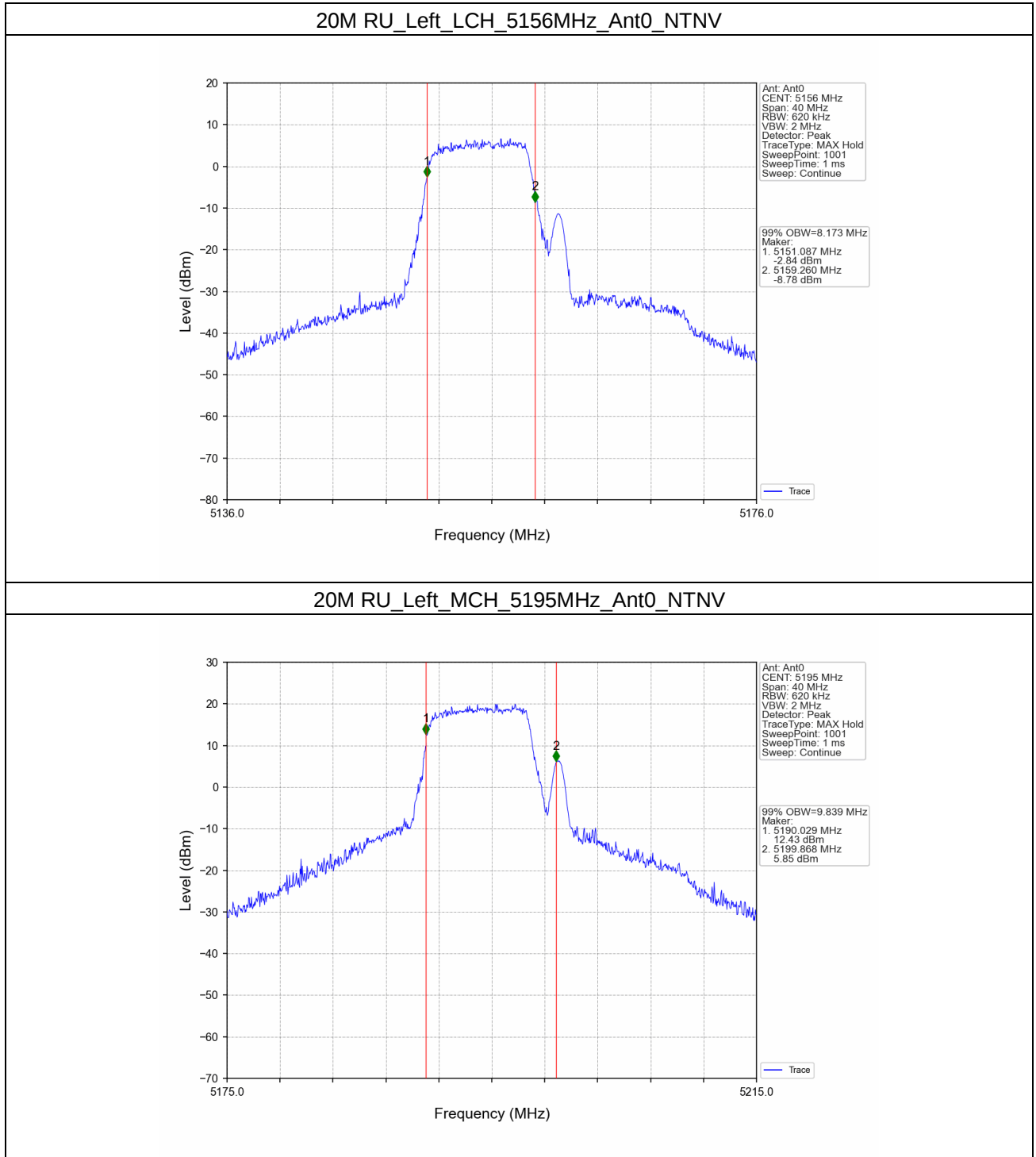
2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
20M RU	SISO	5156	0	8.173	Pass
		5195	0	9.839	Pass
		5245	0	8.157	Pass
40M RU	SISO	5160	0	15.059	Pass
		5190	0	15.115	Pass
		5240	0	15.056	Pass

2.1.2 Test Graph



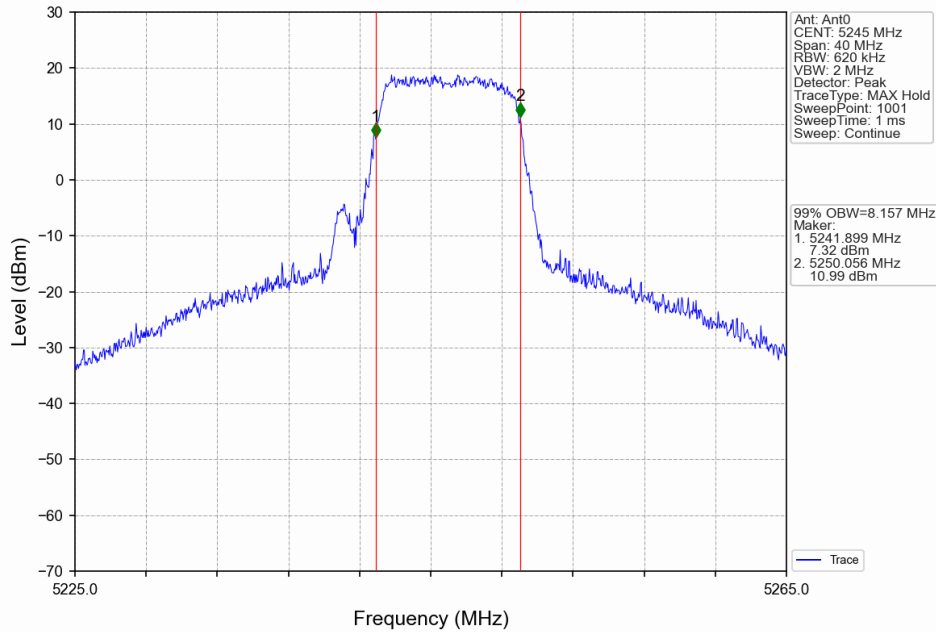
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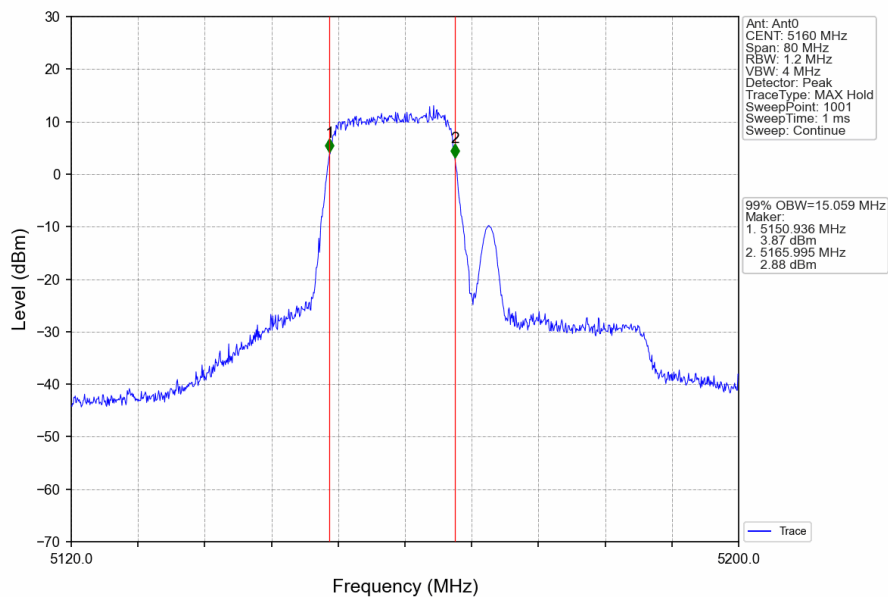
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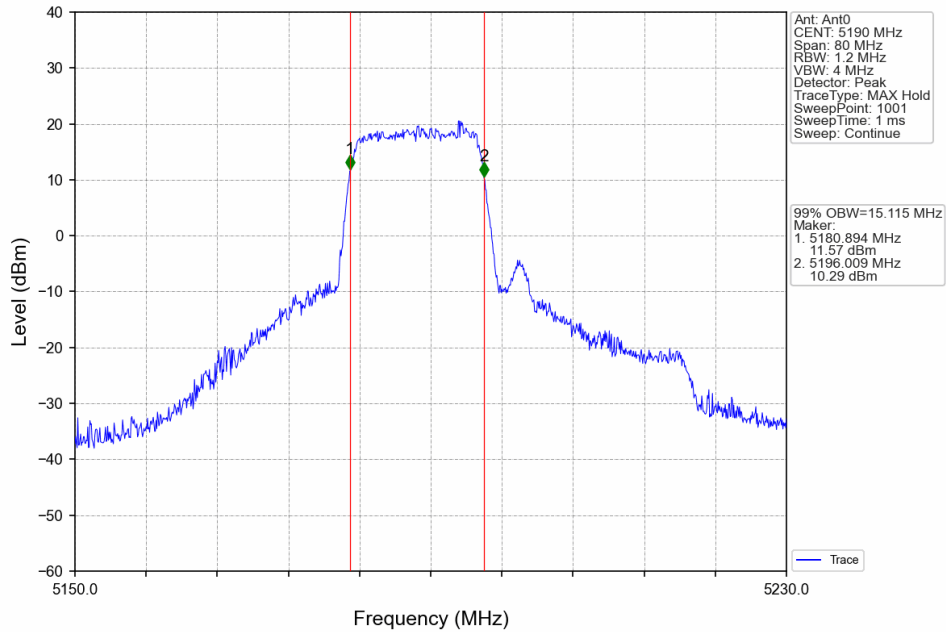
20M RU_Right_HCH_5245MHz_Ant0_NTNV



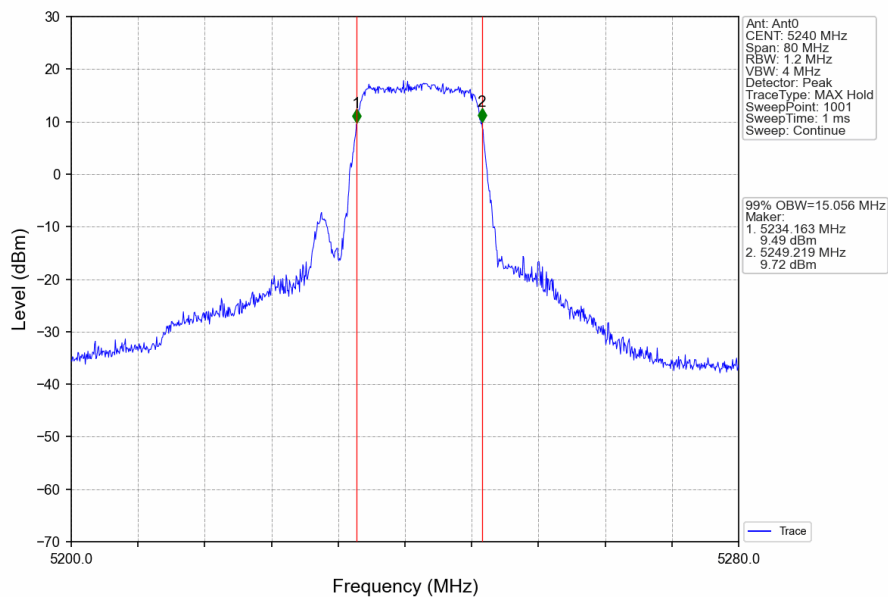
40M RU_LCH_Left_5160MHz_Ant0_NTNV



40M RU_Left_MCH_5190MHz_Ant0_NTNV



40M RU_Right_HCH_5240MHz_Ant0_NTNV



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

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2.2 26dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)	Verdict
				Result	
20M RU	SISO	5156	0	10.770	Pass
		5195	0	10.954	Pass
		5245	0	10.703	Pass
40M RU	SISO	5160	0	20.288	Pass
		5190	0	20.121	Pass
		5240	0	20.280	Pass



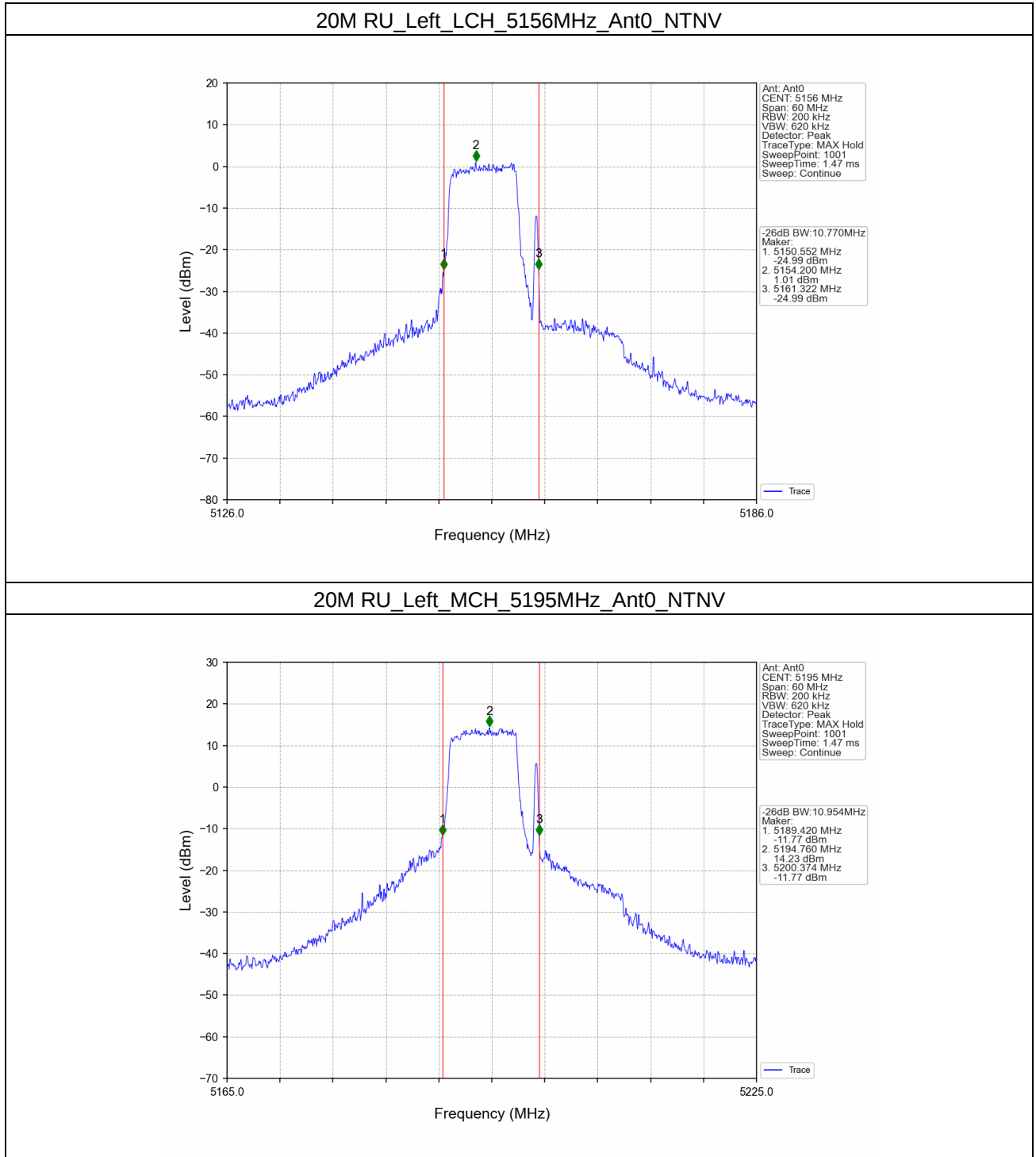
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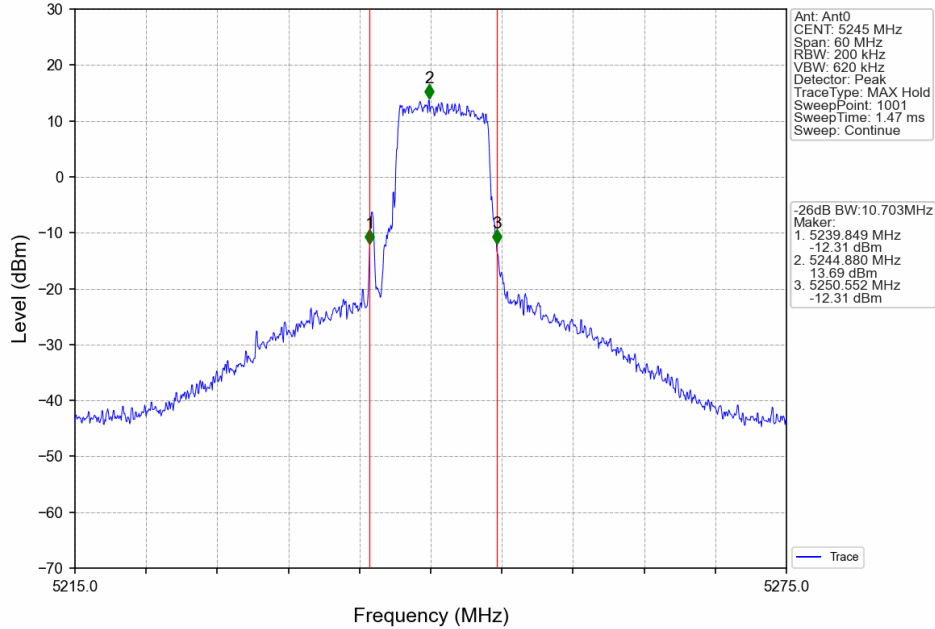
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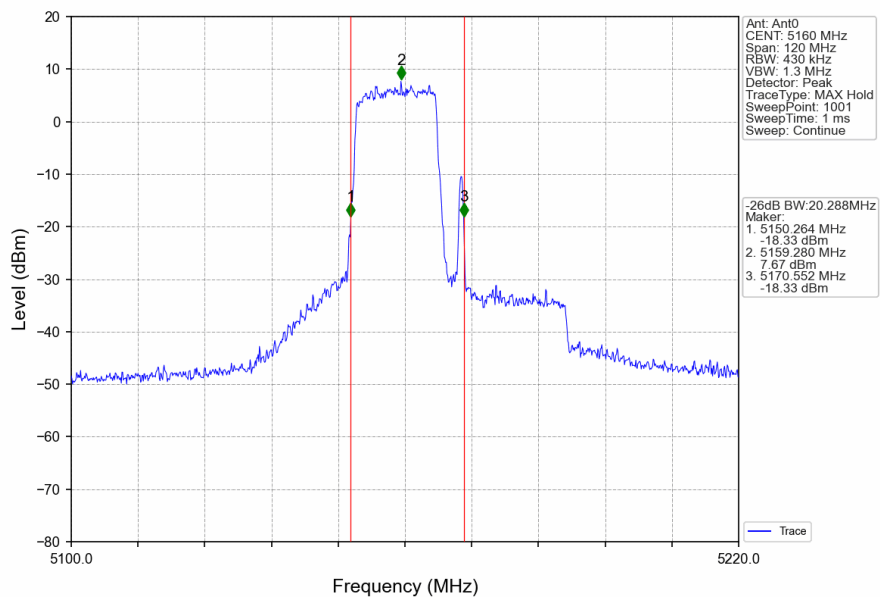
2.2.2 Test Graph



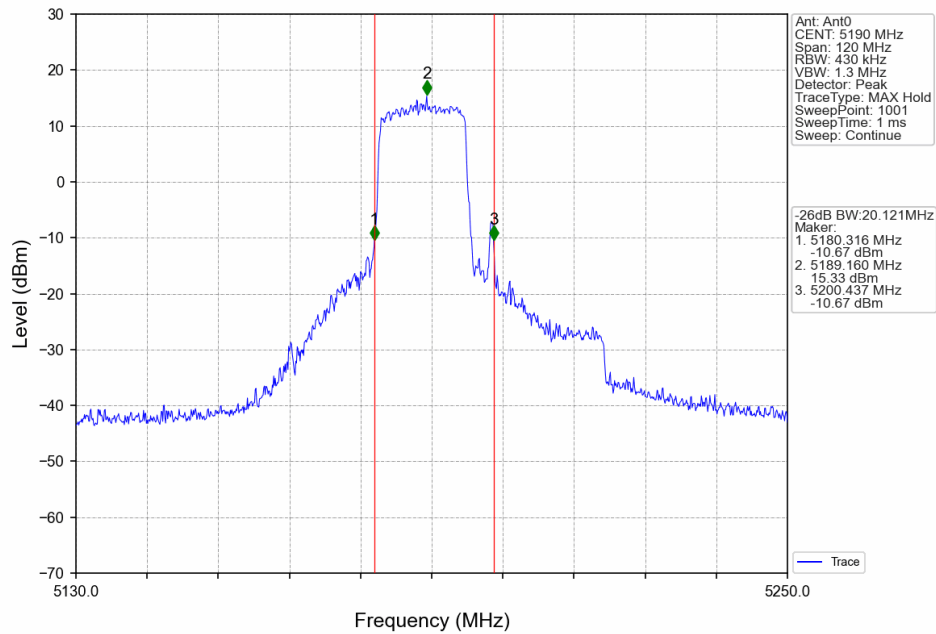
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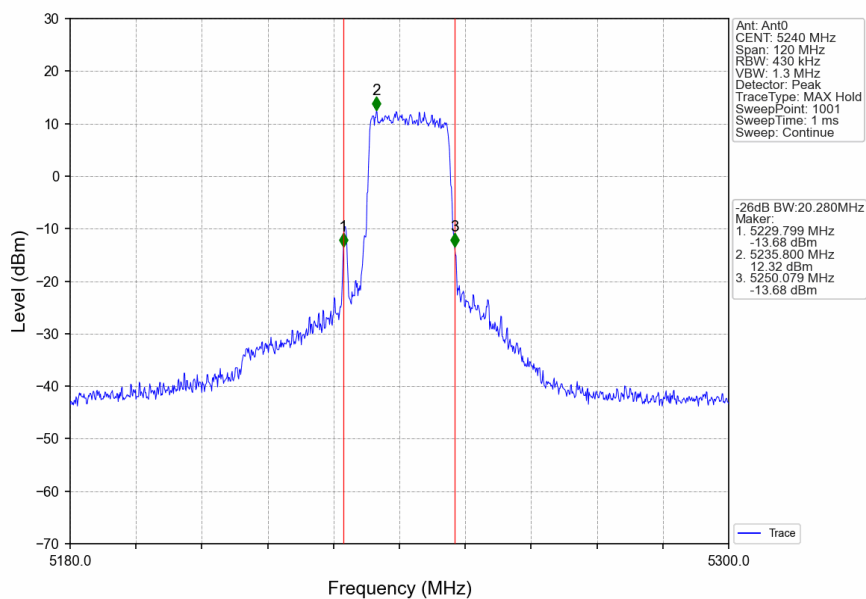
40M RU_LCH_Left_5160MHz_Ant0_NTNV



40M RU_Left_MCH_5190MHz_Ant0_NTNV



40M RU_Right_HCH_5240MHz_Ant0_NTNV



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	Limit	
20M RU	SISO	5156	5.96	5.61	≤ 23.98	Pass
		5195	17.33	17.73	≤ 23.98	Pass
		5245	17.42	17.45	≤ 23.98	Pass
40M RU	SISO	5160	7.23	7.37	≤ 23.98	Pass
		5190	17.66	18.04	≤ 23.98	Pass
		5240	17.42	17.30	≤ 23.98	Pass

Note1: Antenna Gain: Ant0: 1.50dBi; Ant1: 1.50dBi;

4. Maximum Power Spectral Density

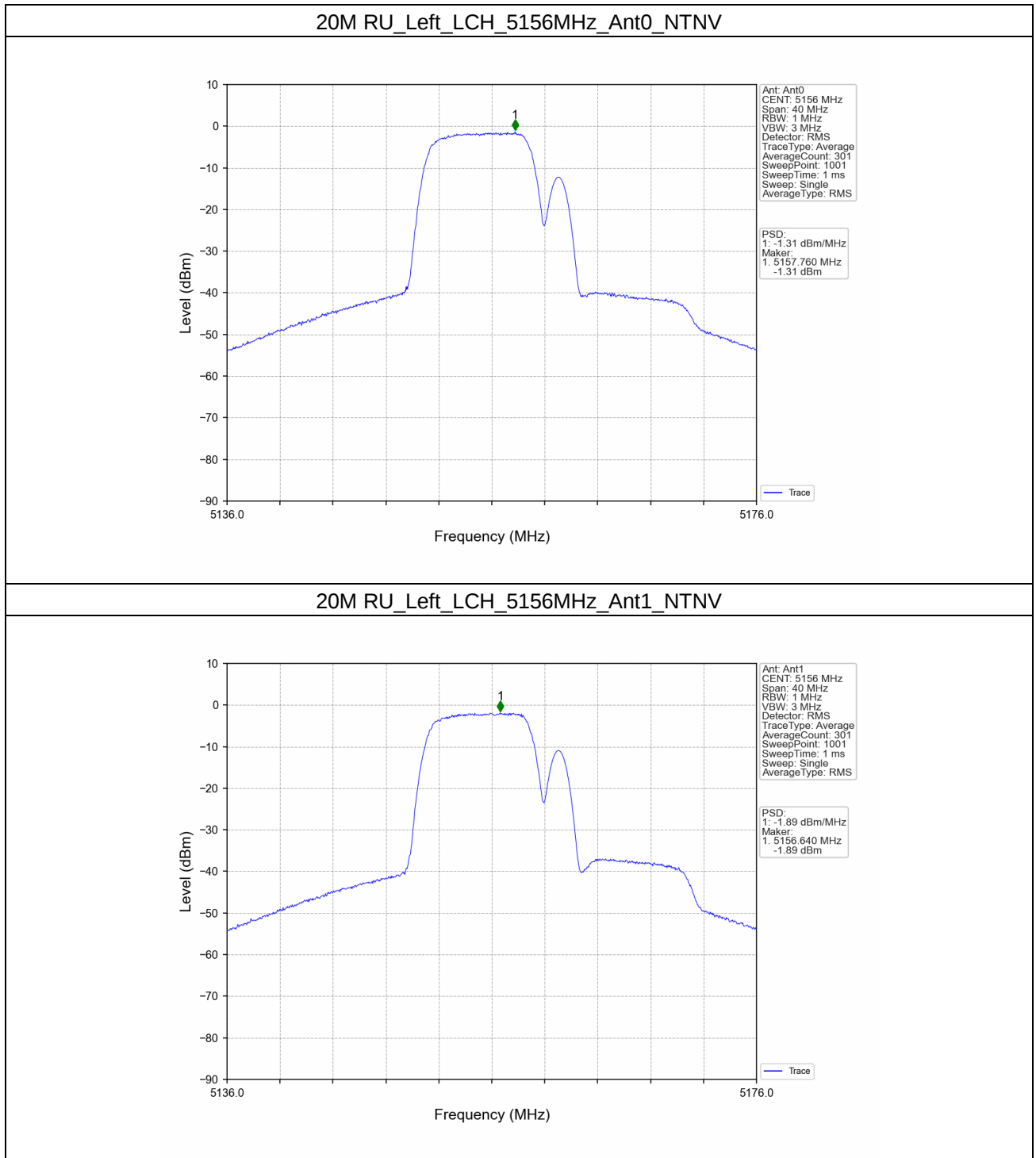
4.1 PSD

4.1.1 Test Result

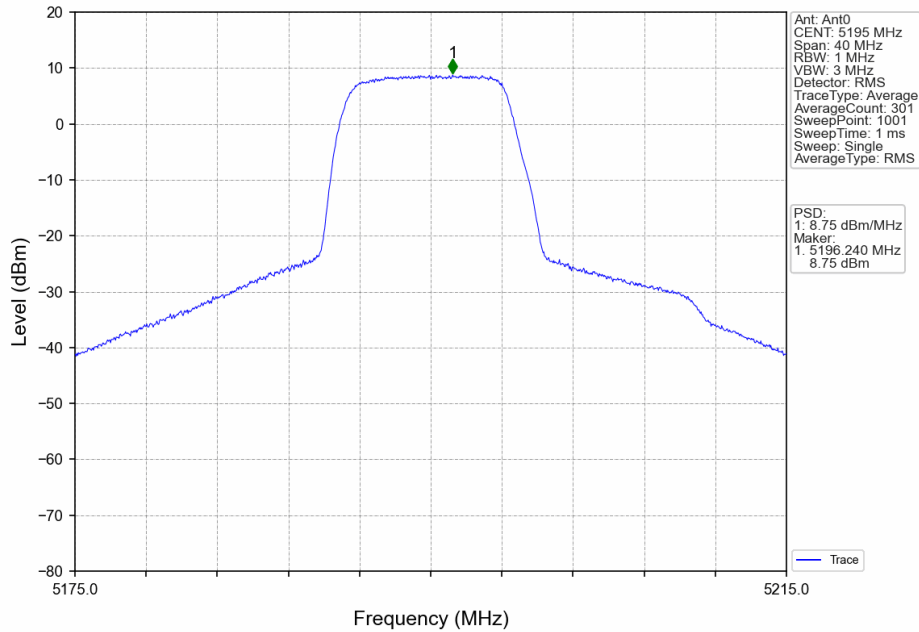
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			Verdict
			ANT0	ANT1	Limit	
20M RU	SISO	5156	-1.31	-1.89	≤ 11	Pass
		5195	8.75	8.99	≤ 11	Pass
		5245	9.91	9.92	≤ 11	Pass
40M RU	SISO	5160	-3.52	-3.49	≤ 11	Pass
		5190	6.70	7.25	≤ 11	Pass
		5240	7.30	7.32	≤ 11	Pass

Note1: Antenna Gain: Ant0: 1.50dBi; Ant1: 1.50dBi;

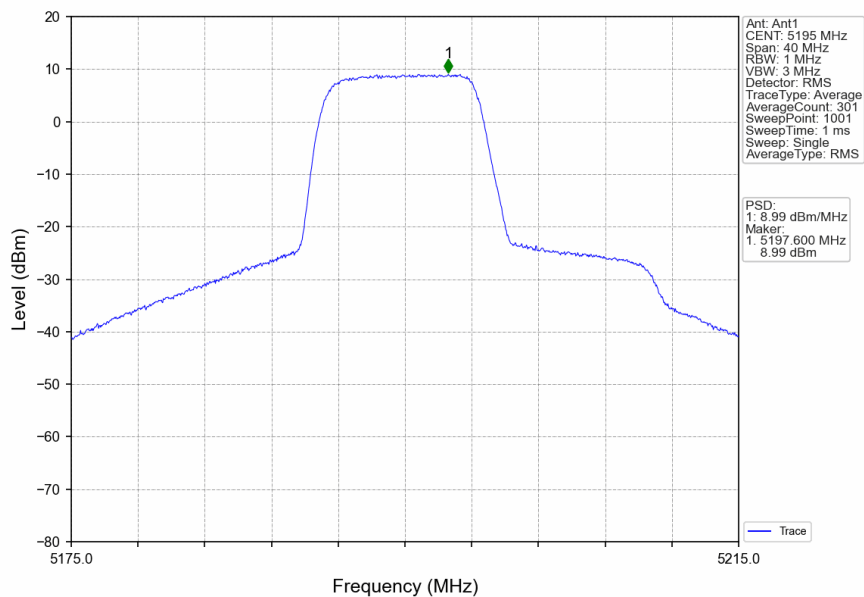
4.1.2 Test Graph



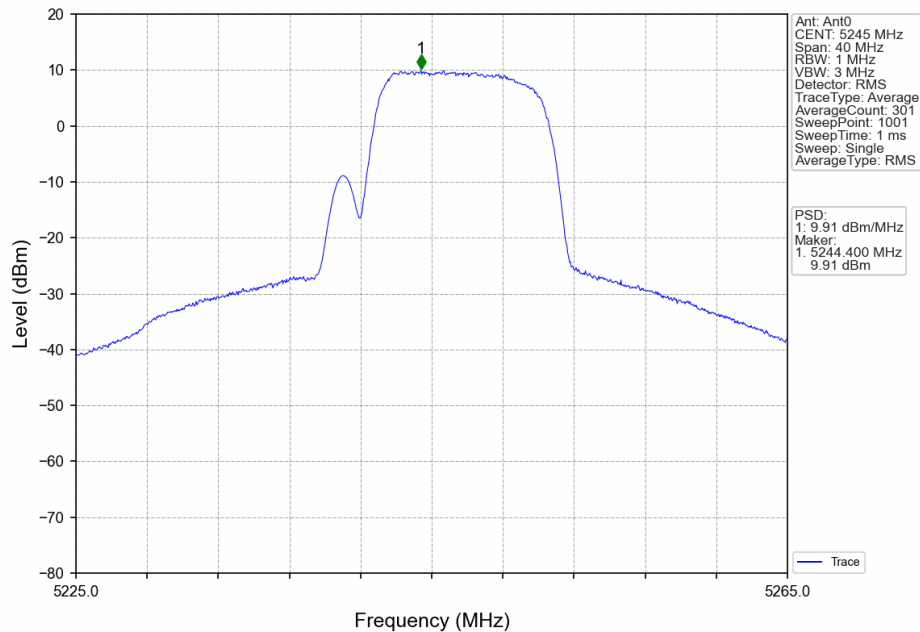
20M RU_Left_MCH_5195MHz_Ant0_NTNV



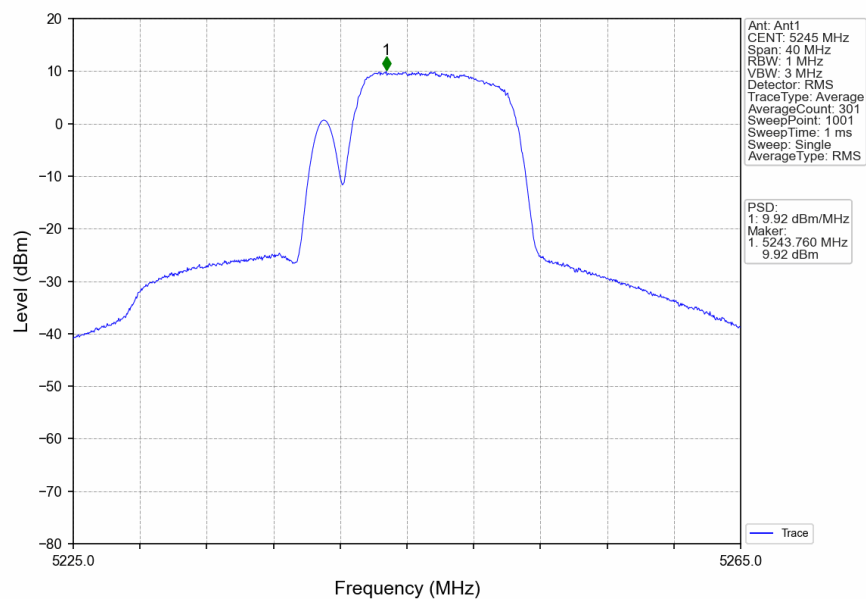
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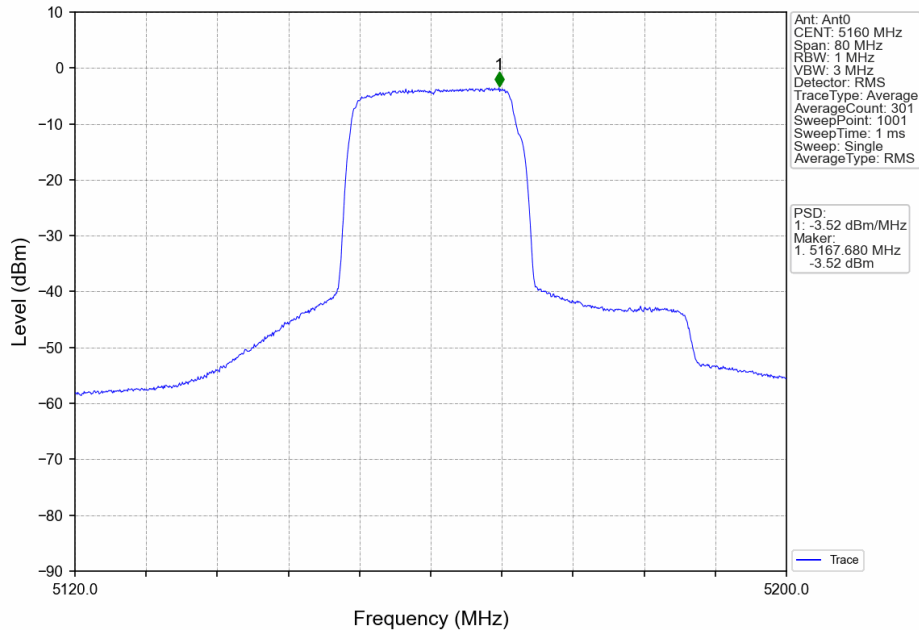
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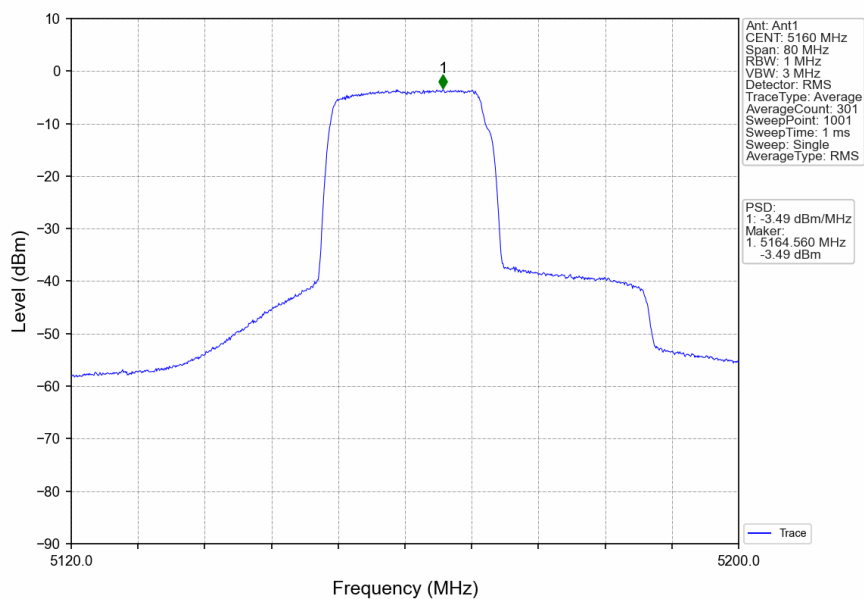
20M RU_Right_HCH_5245MHz_Ant1_NTNV



40M RU_LCH_Left_5160MHz_Ant0_NTNV



40M RU_LCH_Left_5160MHz_Ant1_NTNV



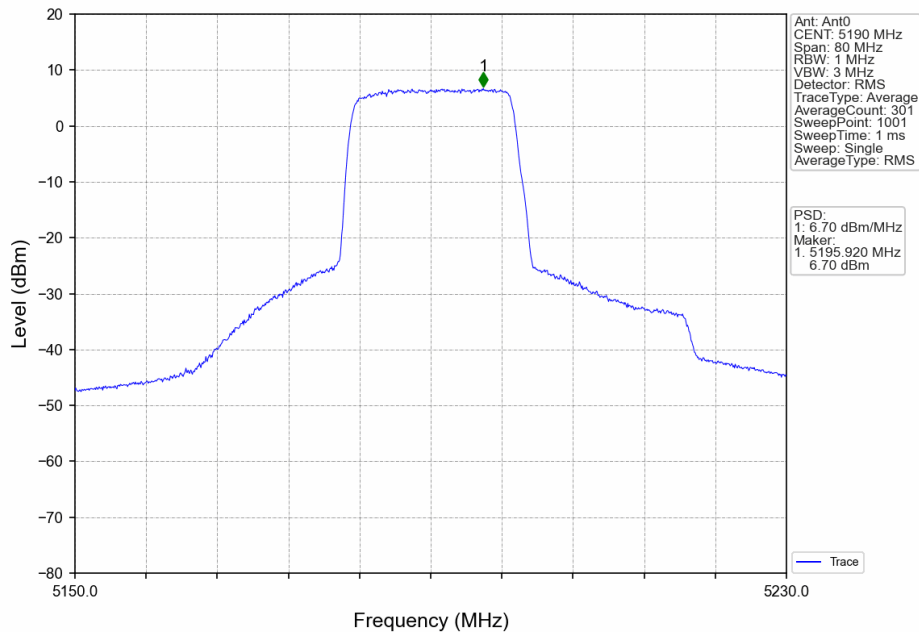
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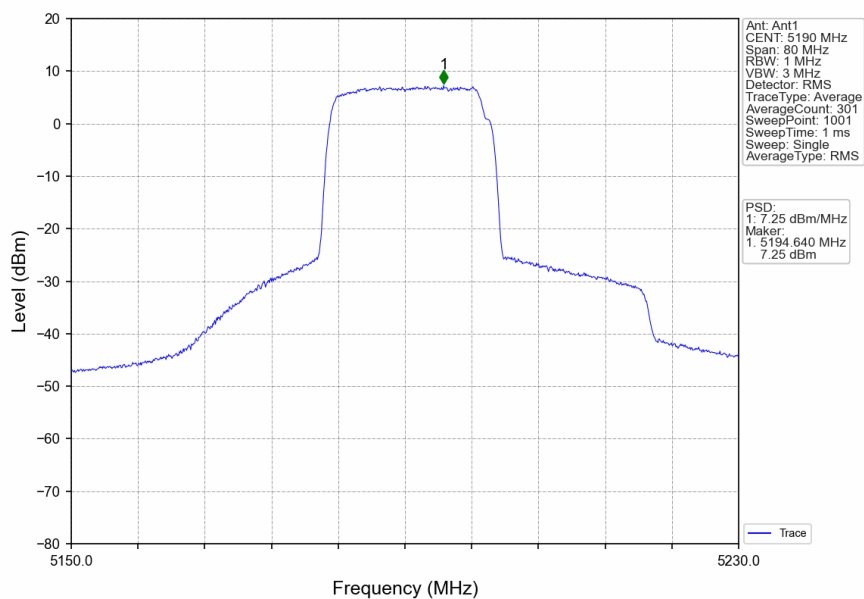
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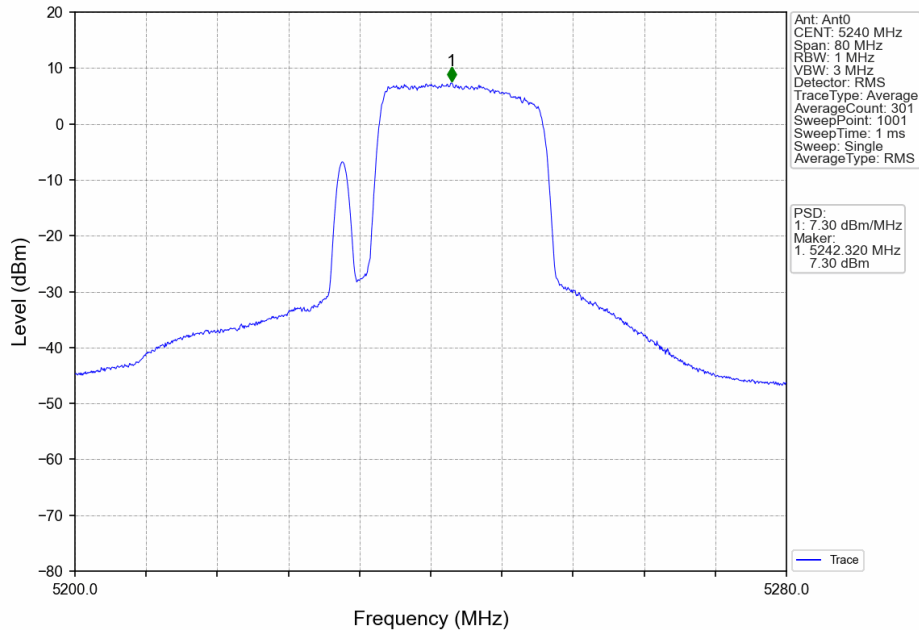
40M RU_Left_MCH_5190MHz_Ant0_NTNV



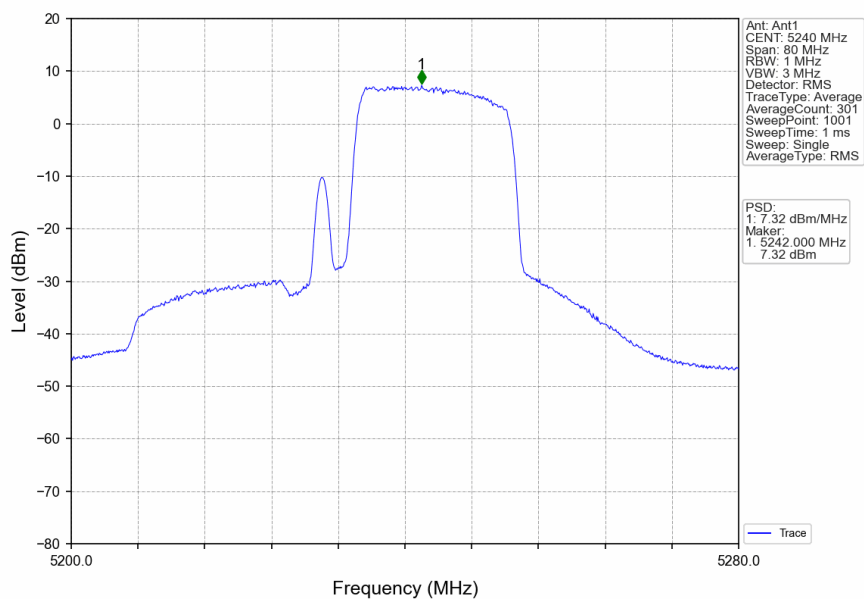
40M RU_Left_MCH_5190MHz_Ant1_NTNV



40M RU_Right_HCH_5240MHz_Ant0_NTNV



40M RU_Right_HCH_5240MHz_Ant1_NTNV



5.1G SDR Partial mode: MIMO

1. Duty Cycle

1.1 Ant0

1.1.1 Test Result

Ant0							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
20M RU	MIMO	5156	100.000	100.000	100.00	0.00	0.00
		5195	100.000	100.000	100.00	0.00	0.00
		5245	100.000	100.000	100.00	0.00	0.00
40M RU	MIMO	5160	100.000	100.000	100.00	0.00	0.00
		5190	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00

1.1.2 Test Graph

