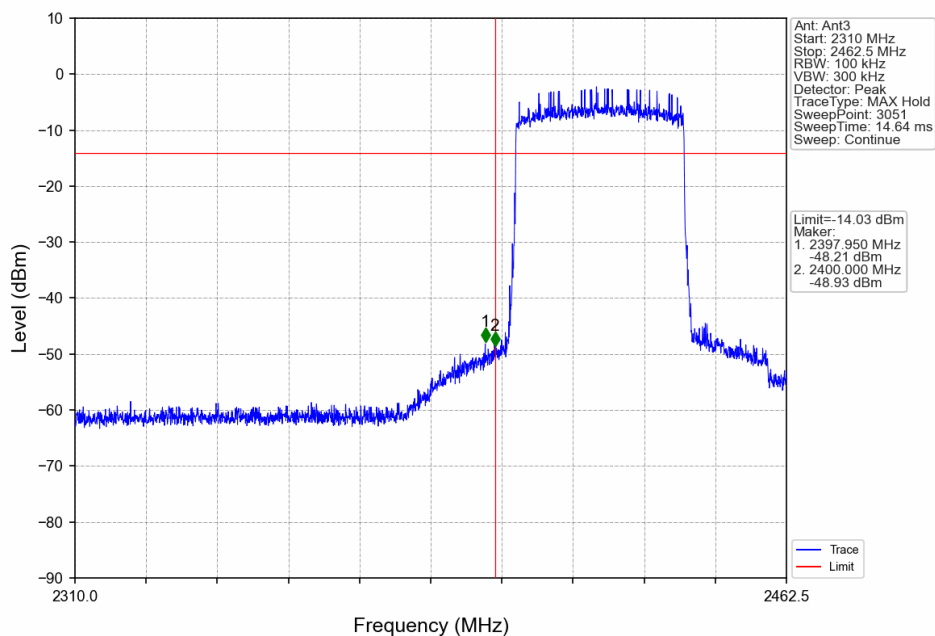
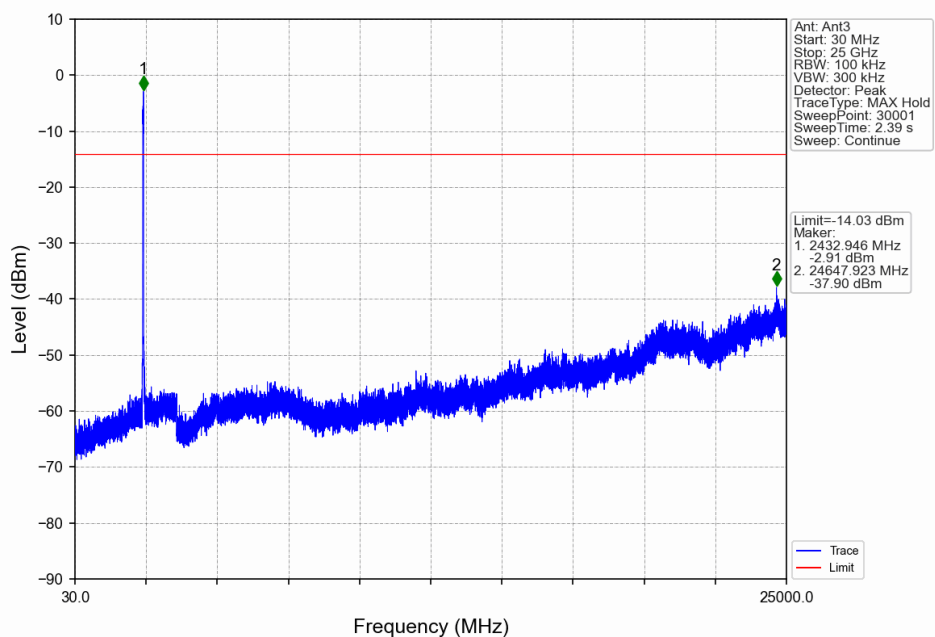


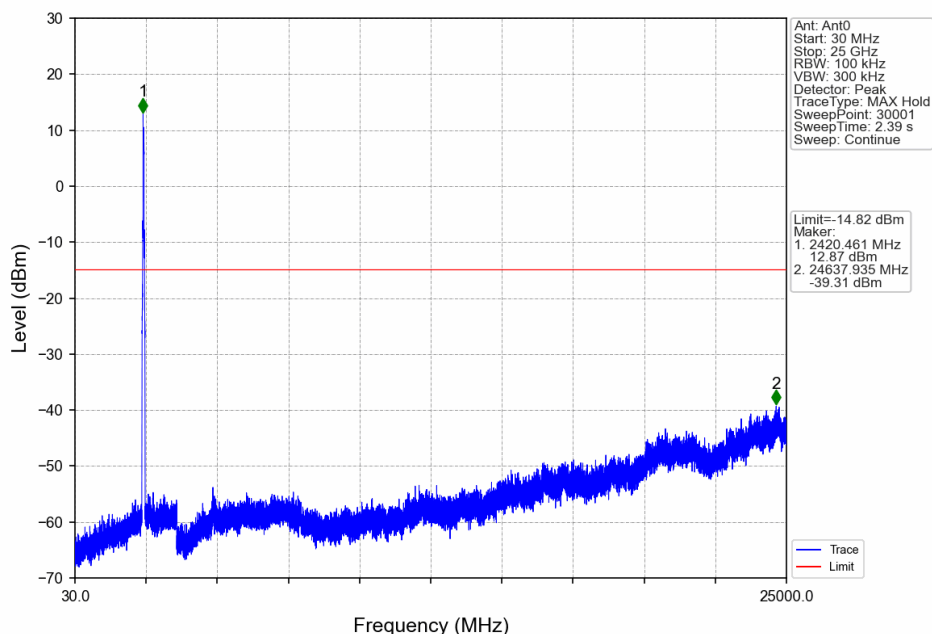
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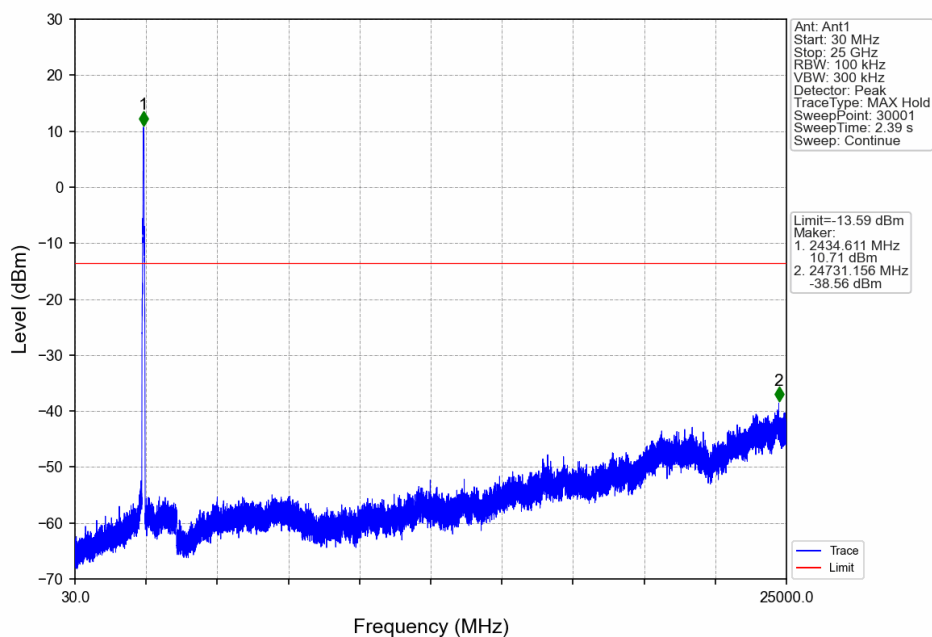
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40M_MCH_2437.5MHz_Ant0_NTNV



40M_MCH_2437.5MHz_Ant1_NTNV



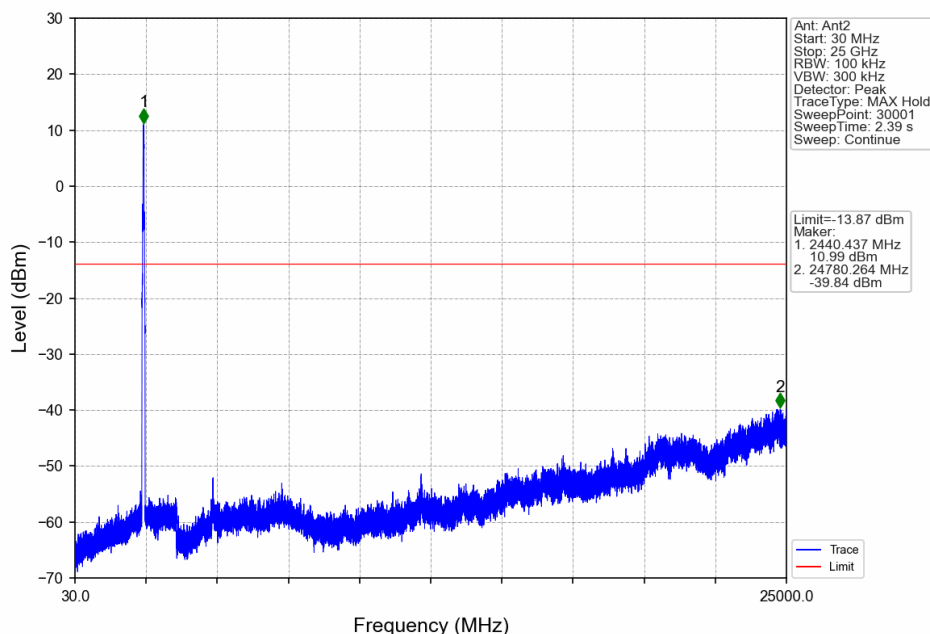
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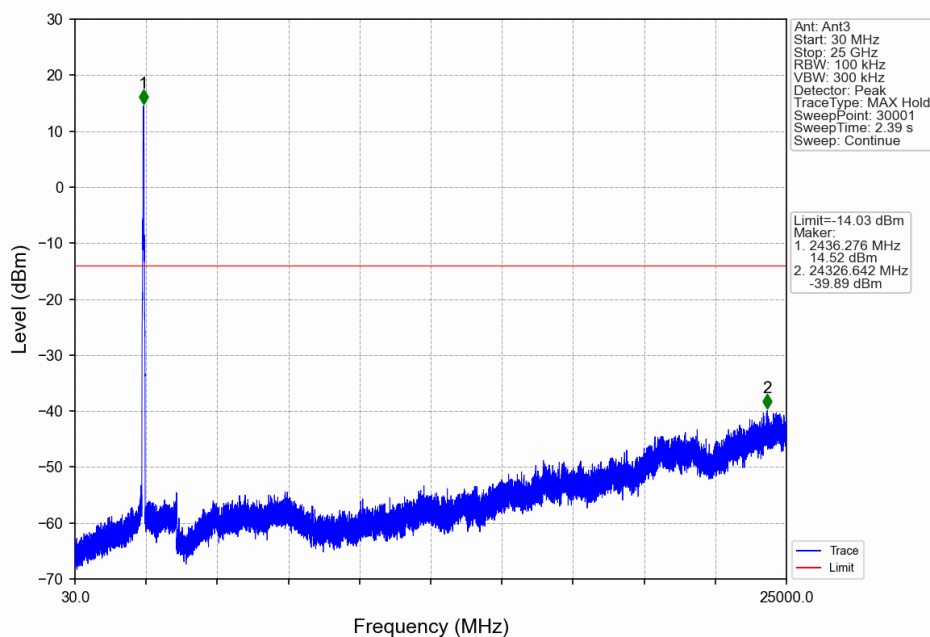
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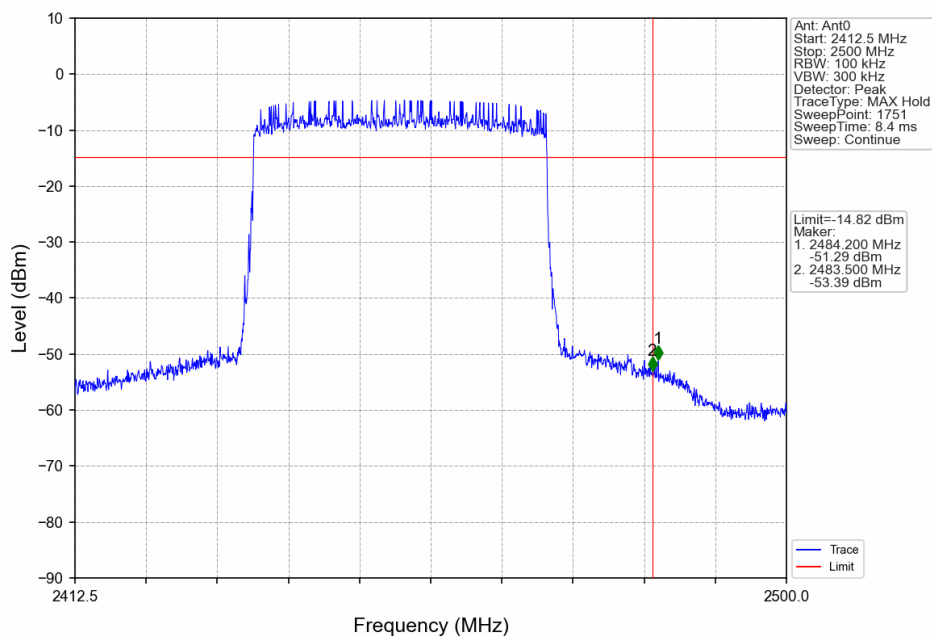
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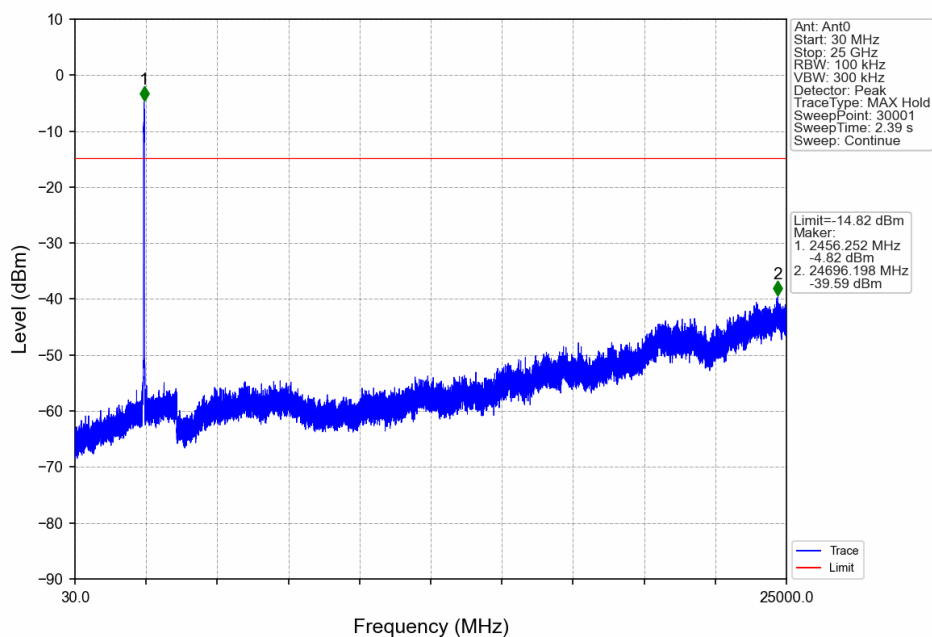
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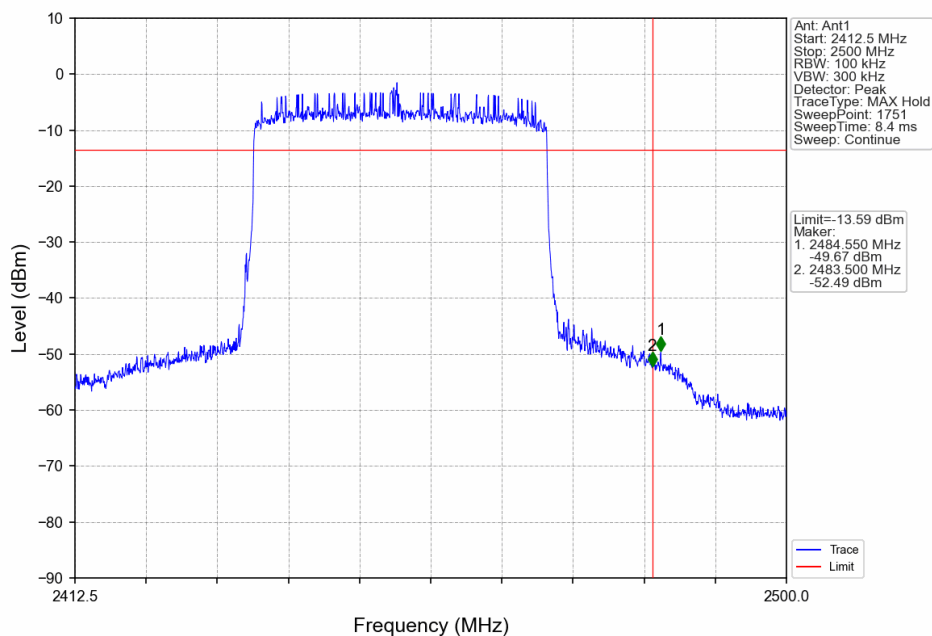
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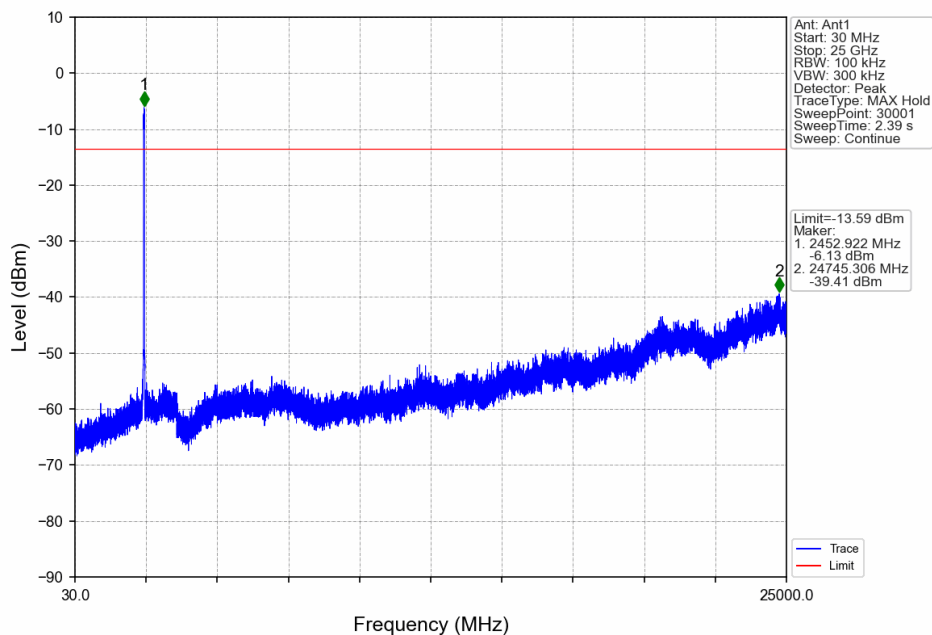
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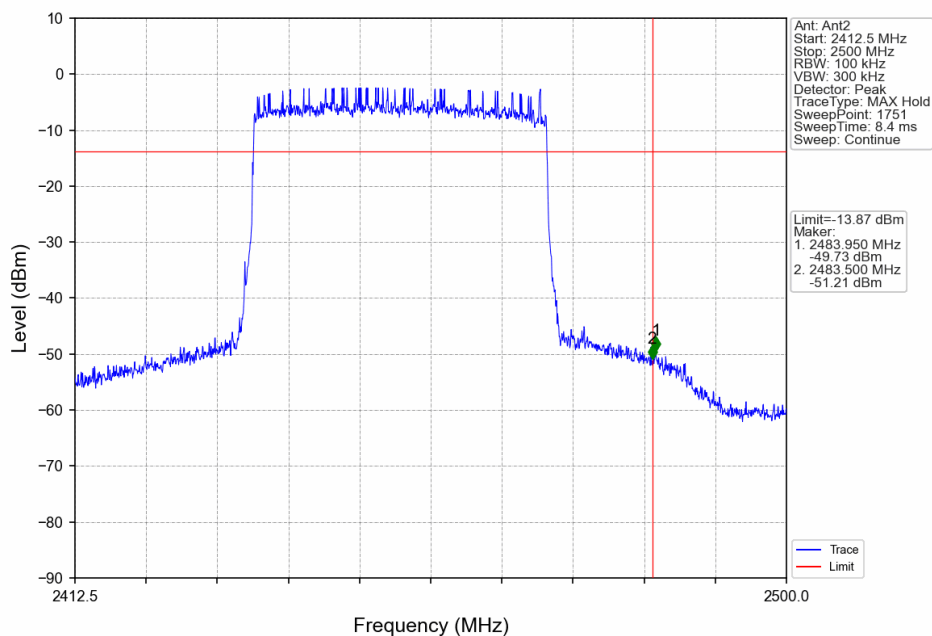
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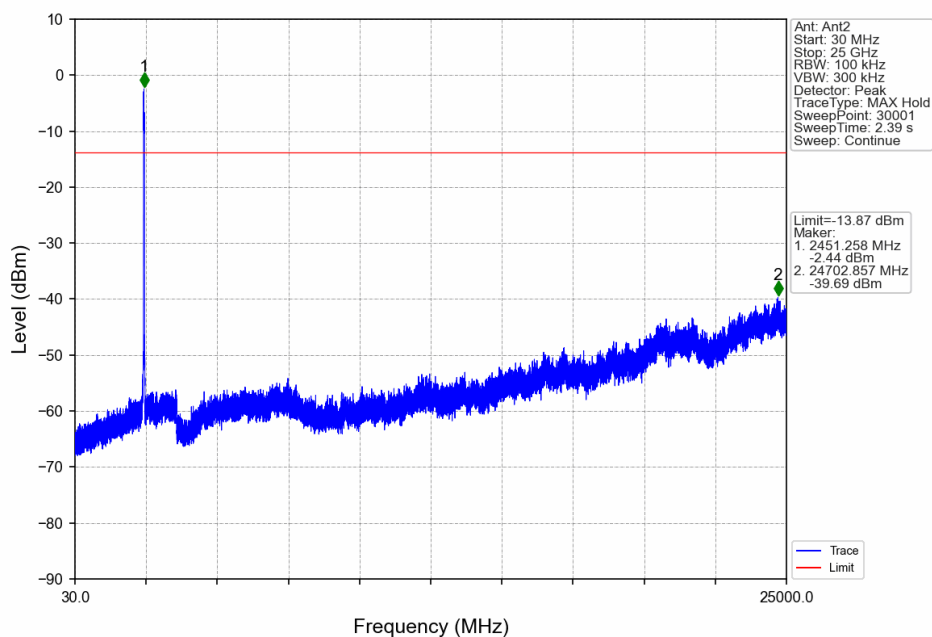
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40M_HCH_2452.5MHz_Ant2_NTNV



40M_HCH_2452.5MHz_Ant2_NTNV



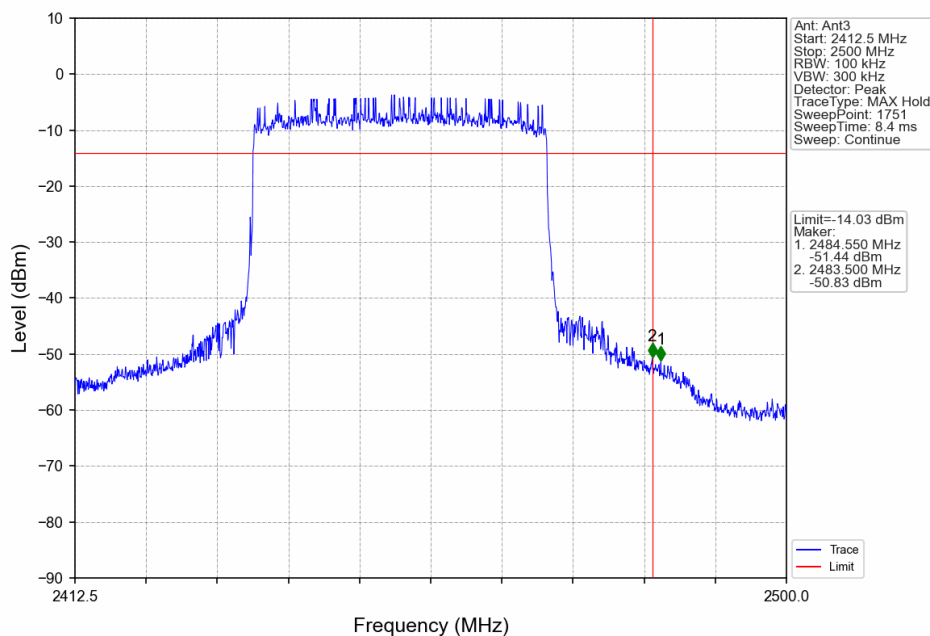
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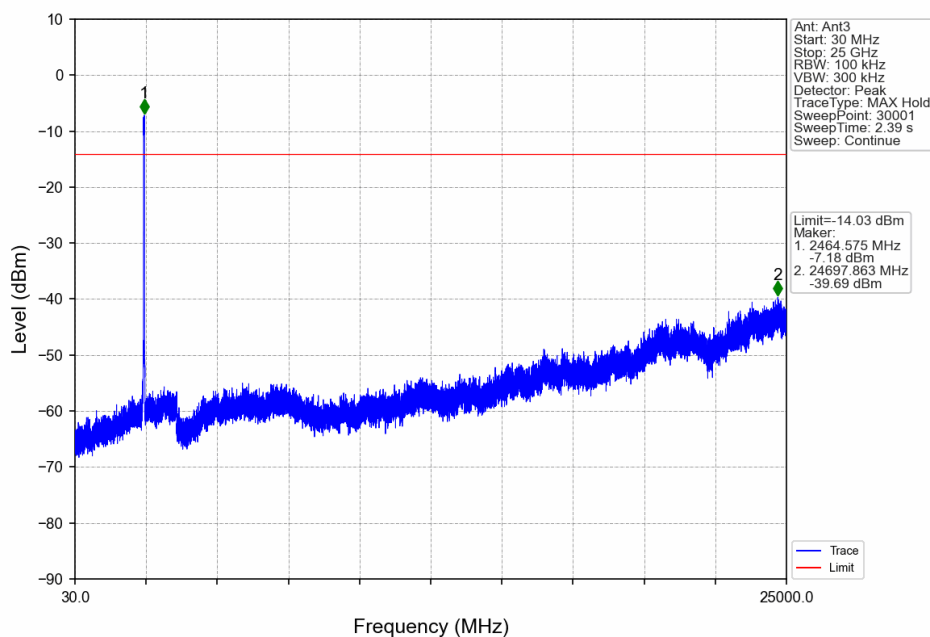
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40M_HCH_2452.5MHz_Ant3_NTNV



40M_HCH_2452.5MHz_Ant3_NTNV



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

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MIMO Mode (EUT supports ANT0 combined ANT1, ANT0 combined ANT2, ANT2 combined ANT1, ANT2 combined ANT3, all combinations were pre-tested, ANT2 combined ANT3 was the worse-case, only the worse-case test data were recorded in this report)

1. Duty Cycle

1.1 Ant2

1.1.1 Test Result

Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1.4M	MIMO	2403.5	100.000	100.000	100.00	0.00	0.00
		2441.5	100.000	100.000	100.00	0.00	0.00
		2479.12	100.000	100.000	100.00	0.00	0.00
3M	MIMO	2405.5	100.000	100.000	100.00	0.00	0.00
		2438.5	100.000	100.000	100.00	0.00	0.00
		2471.2	100.000	100.000	100.00	0.00	0.00
10M	MIMO	2407.5	100.000	100.000	100.00	0.00	0.00
		2437.5	100.000	100.000	100.00	0.00	0.00
		2467.5	100.000	100.000	100.00	0.00	0.00
20M	MIMO	2412.5	19.920	20.000	99.60	0.02	0.00
		2437.5	19.920	20.000	99.60	0.02	0.00
		2462.5	19.913	20.000	99.57	0.02	0.00
40M	MIMO	2422.5	19.930	20.000	99.65	0.02	0.00
		2437.5	19.934	20.000	99.67	0.01	0.00
		2452.5	19.930	20.000	99.65	0.02	0.00



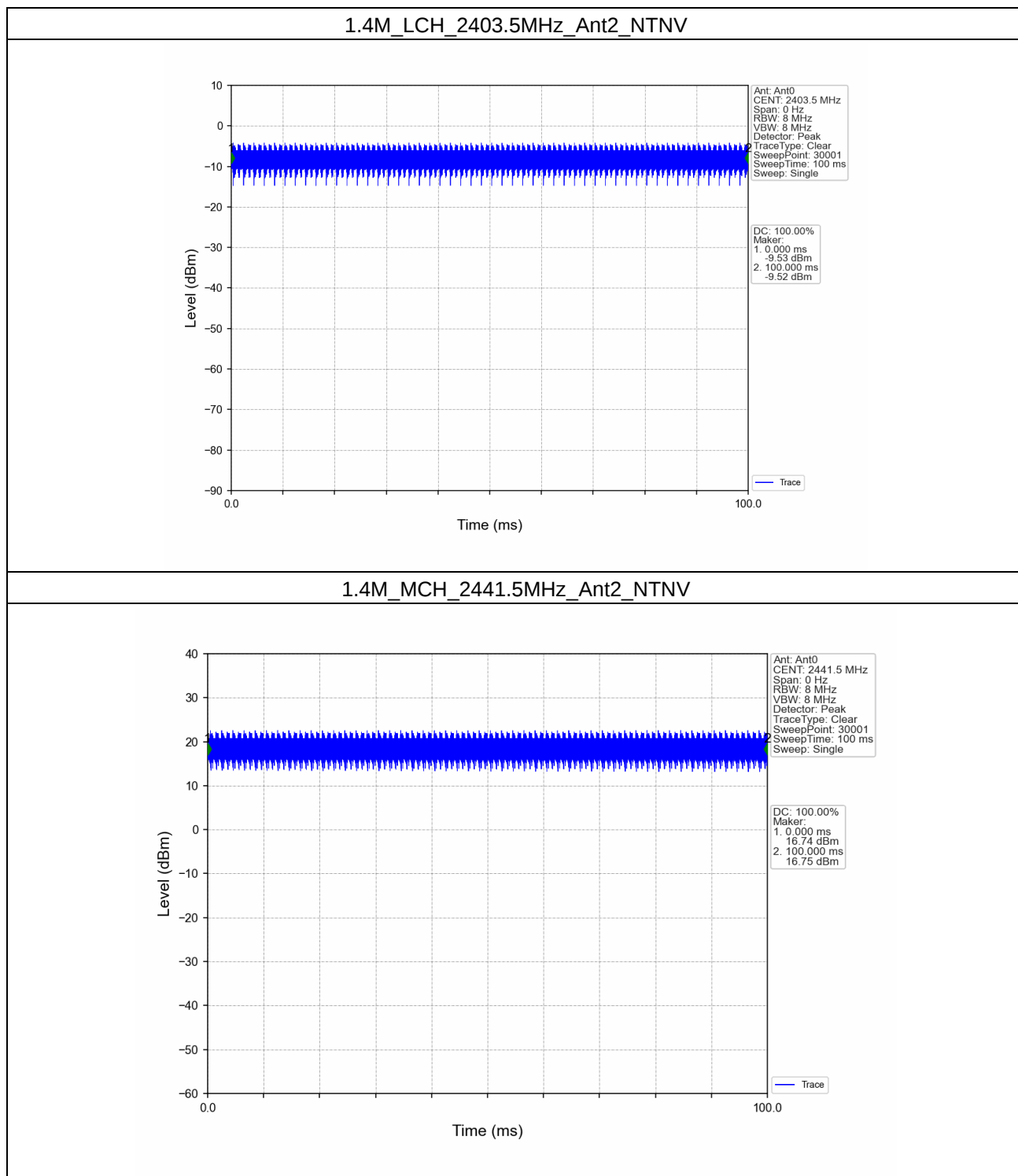
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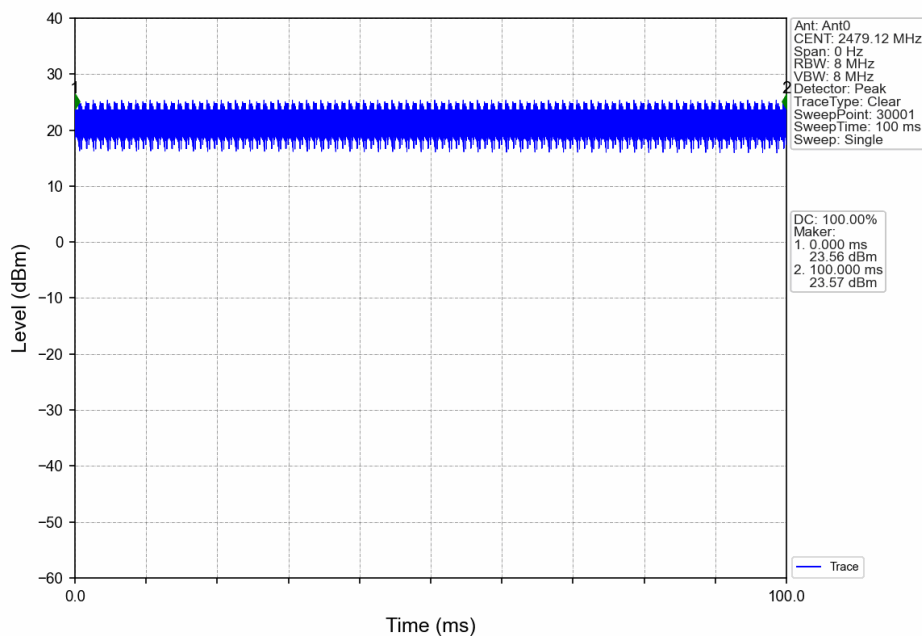
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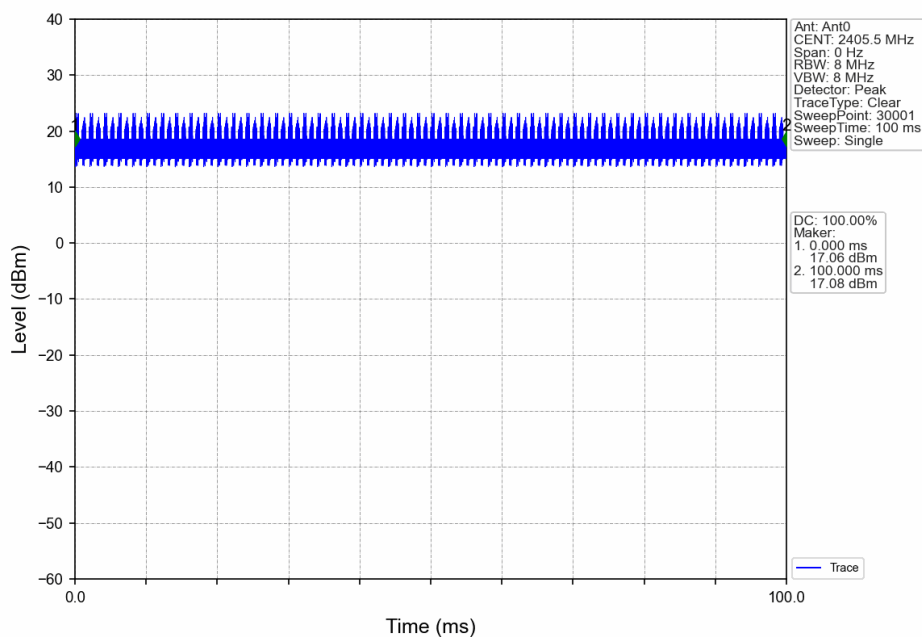
1.1.2 Test Graph



1.4M_HCH_2479.12MHz_Ant2_NTNV



3M_LCH_2405.5MHz_Ant2_NTNV



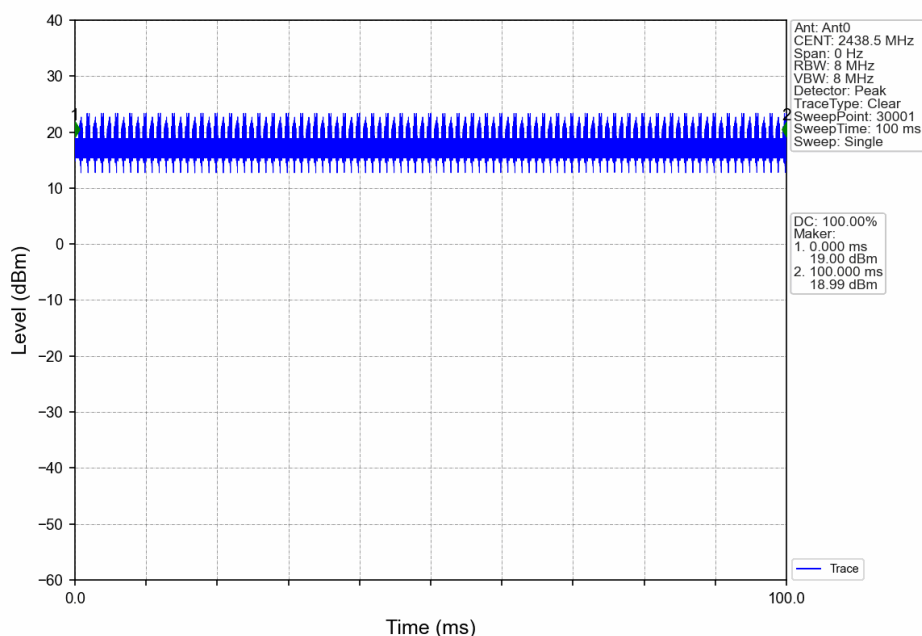
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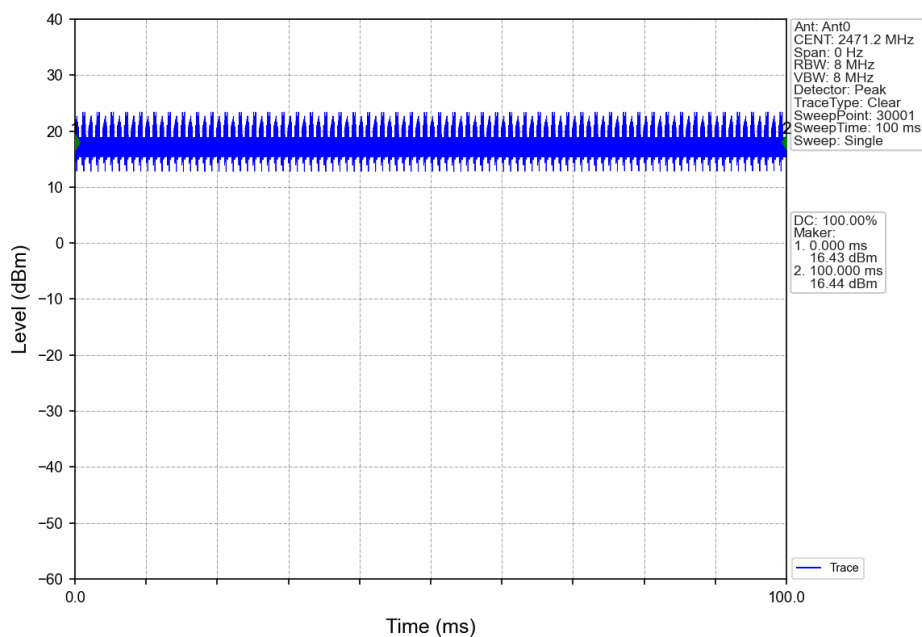
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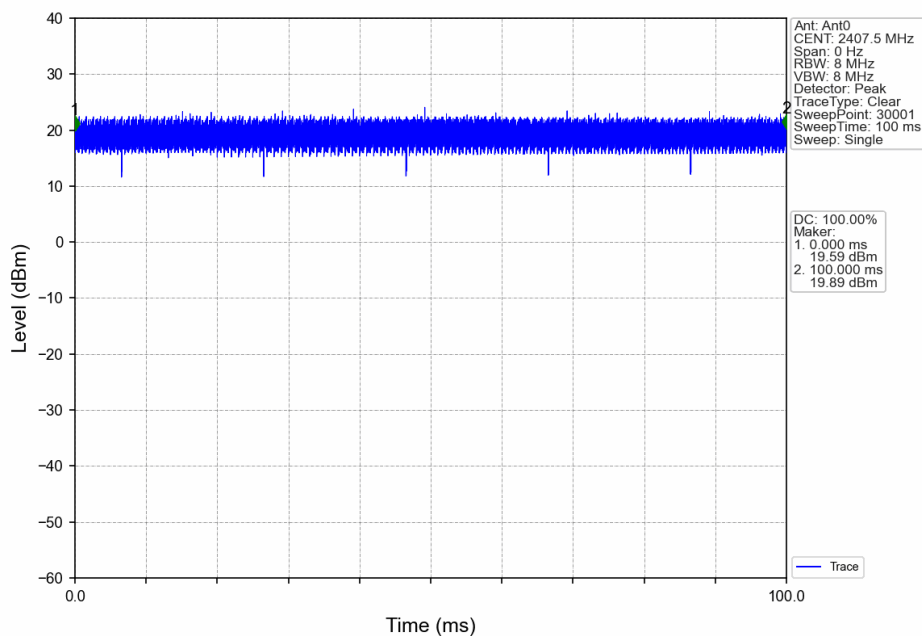
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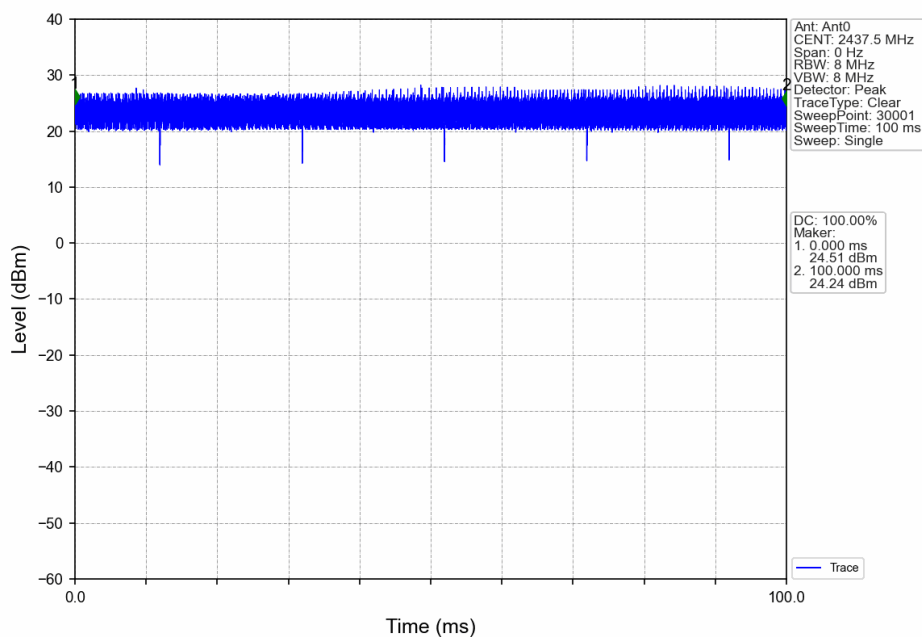
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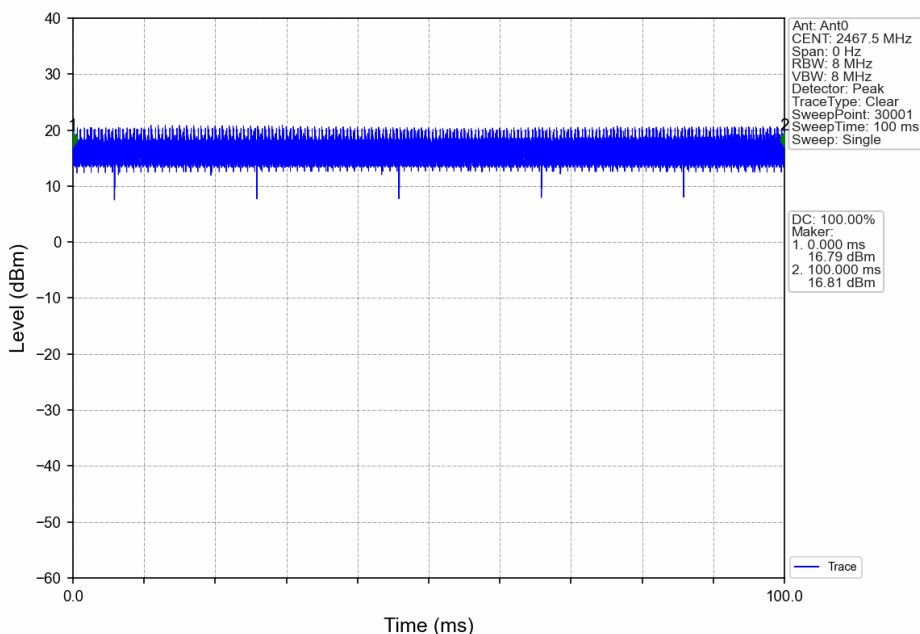
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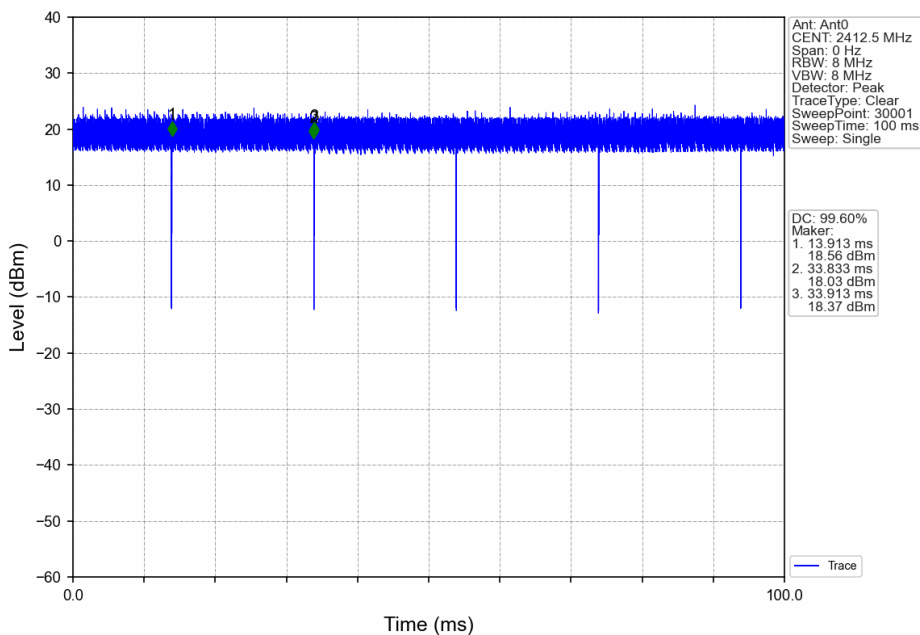
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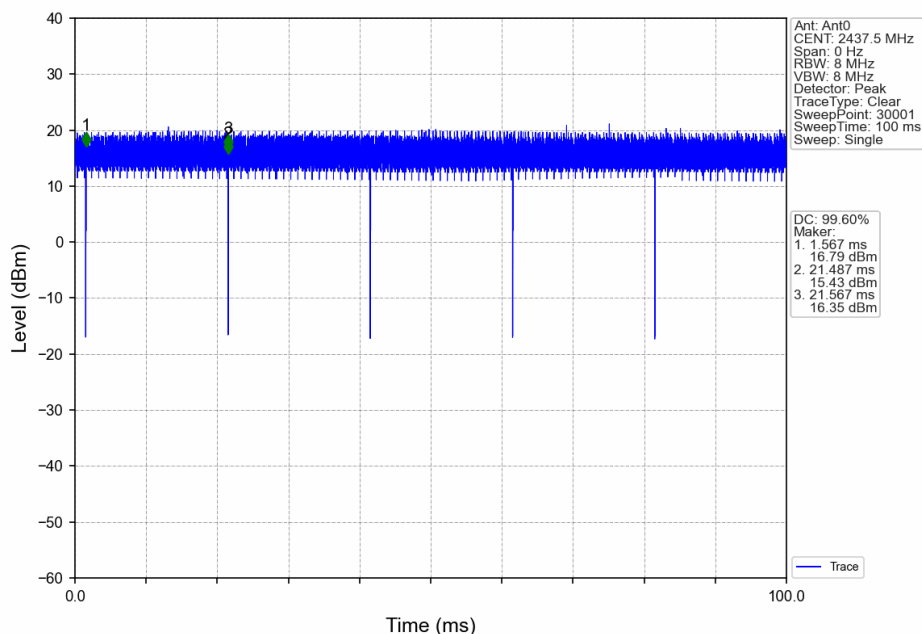
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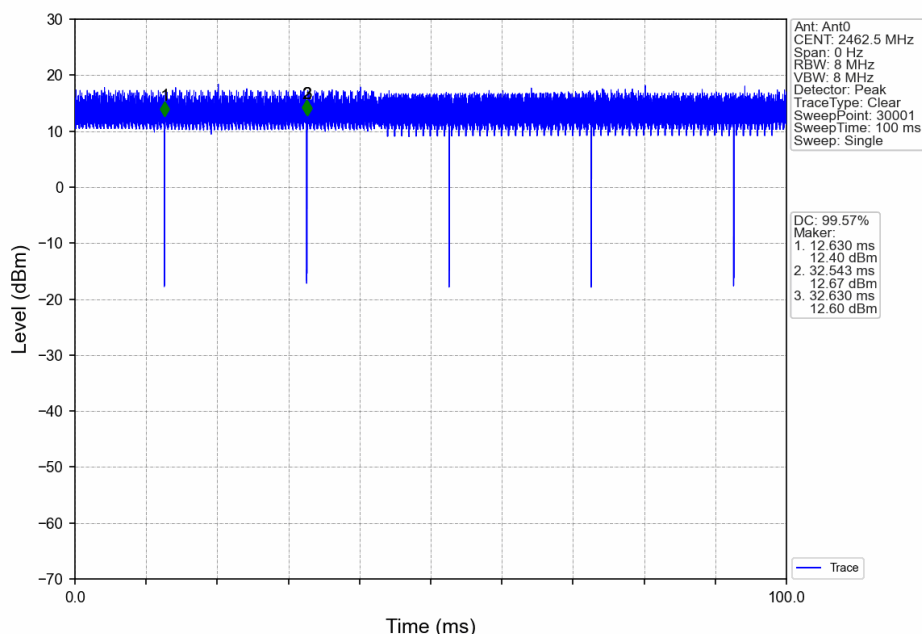
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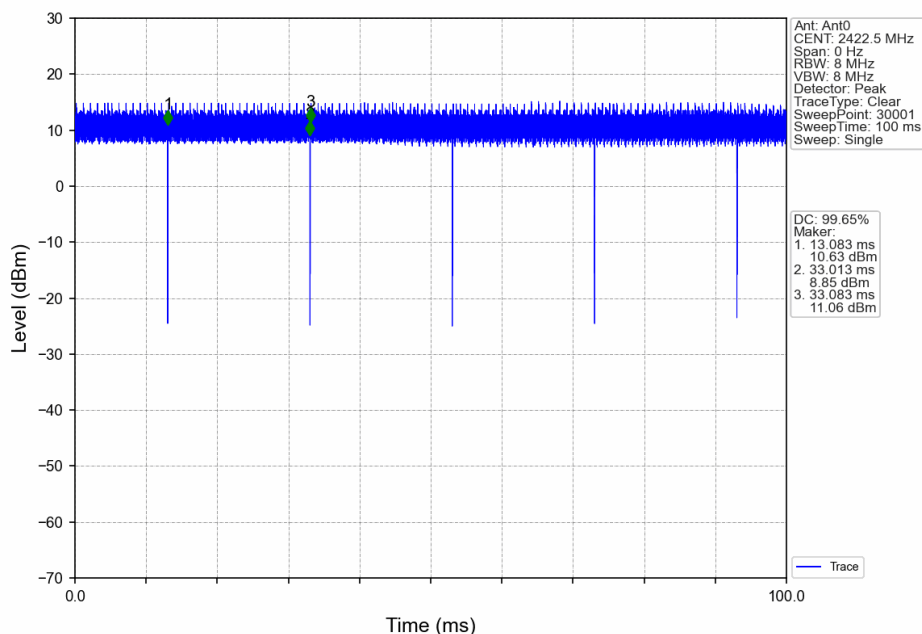
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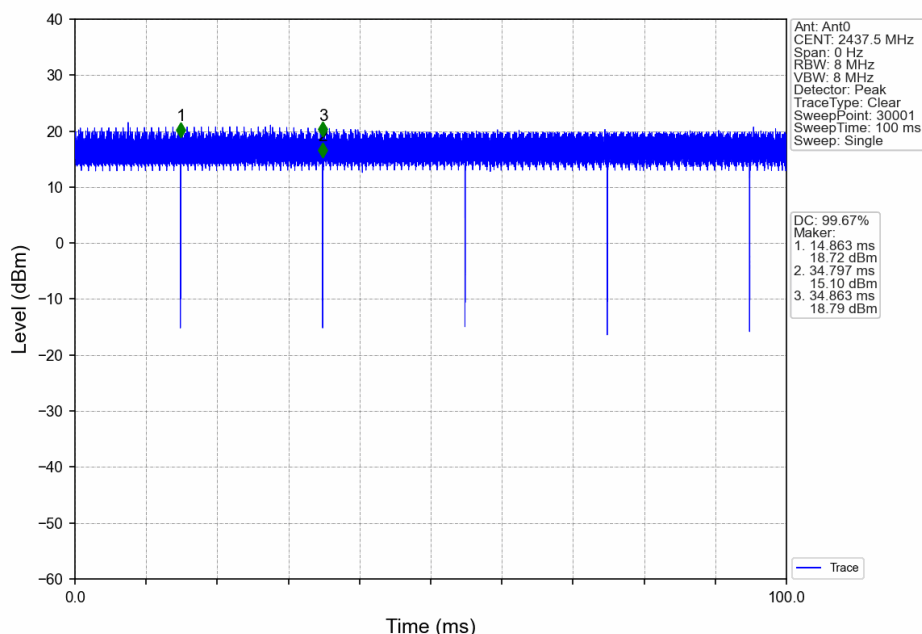
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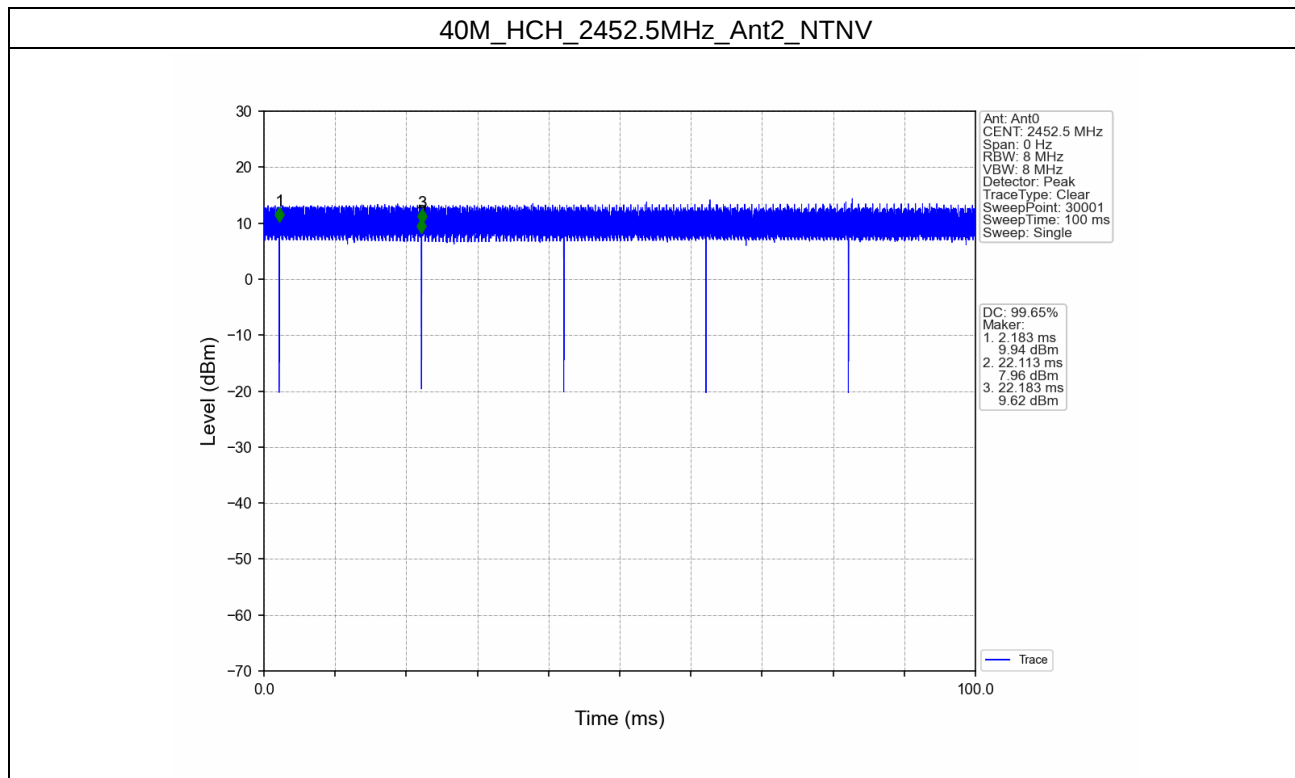


40M_LCH_2422.5MHz_Ant2_NTNV



40M_MCH_2437.5MHz_Ant2_NTNV





2. Bandwidth

2.1 OBW

2.1.1 Test Result

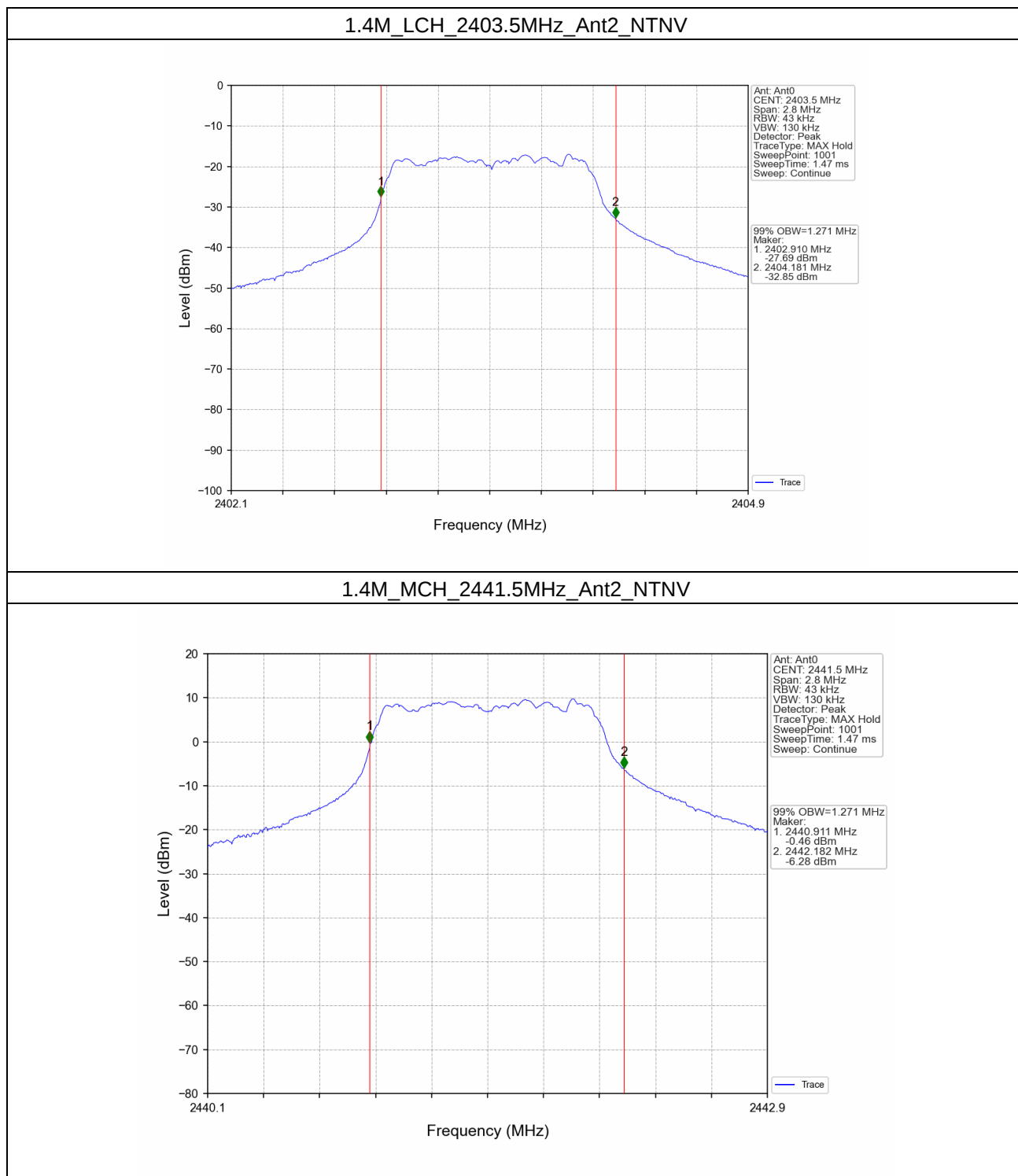
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1.4M	MIMO	2403.5	2	1.271	Pass
		2441.5	2	1.271	Pass
		2479.12	2	1.268	Pass
3M	MIMO	2405.5	2	2.341	Pass
		2438.5	2	2.342	Pass
		2471.2	2	2.340	Pass
10M	MIMO	2407.5	2	8.993	Pass
		2437.5	2	8.994	Pass
		2467.5	2	8.993	Pass
20M	MIMO	2412.5	2	17.896	Pass
		2437.5	2	17.920	Pass
		2462.5	2	17.914	Pass
40M	MIMO	2422.5	2	36.002	Pass
		2437.5	2	36.067	Pass
		2452.5	2	36.075	Pass



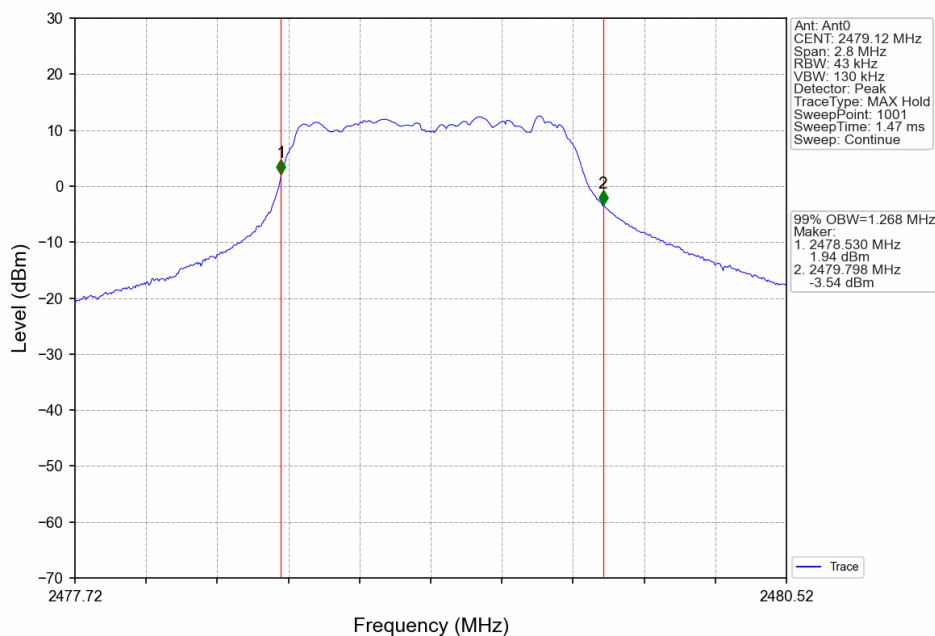
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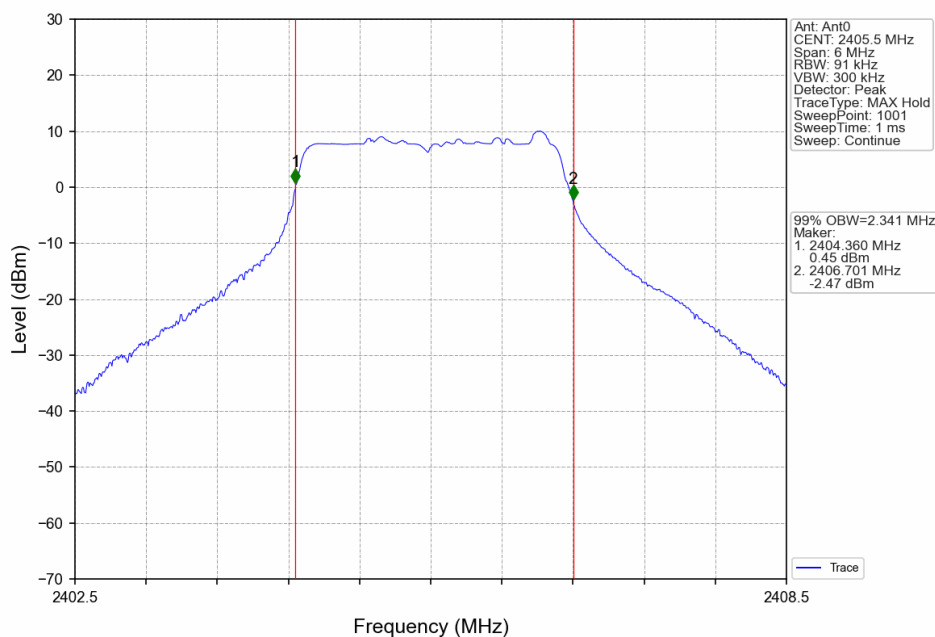
2.1.2 Test Graph



1.4M_HCH_2479.12MHz_Ant2_NTNV



3M_LCH_2405.5MHz_Ant2_NTNV



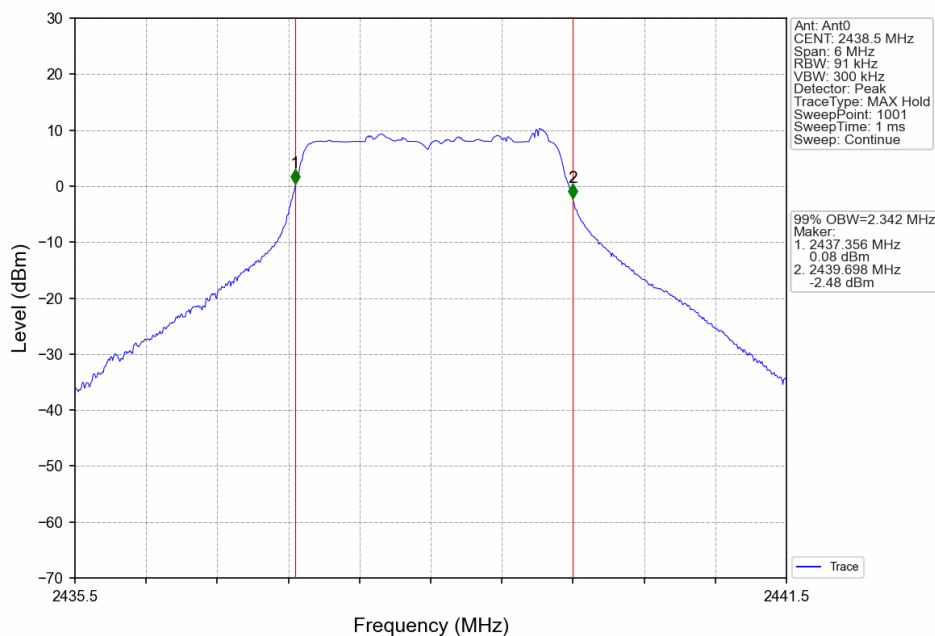
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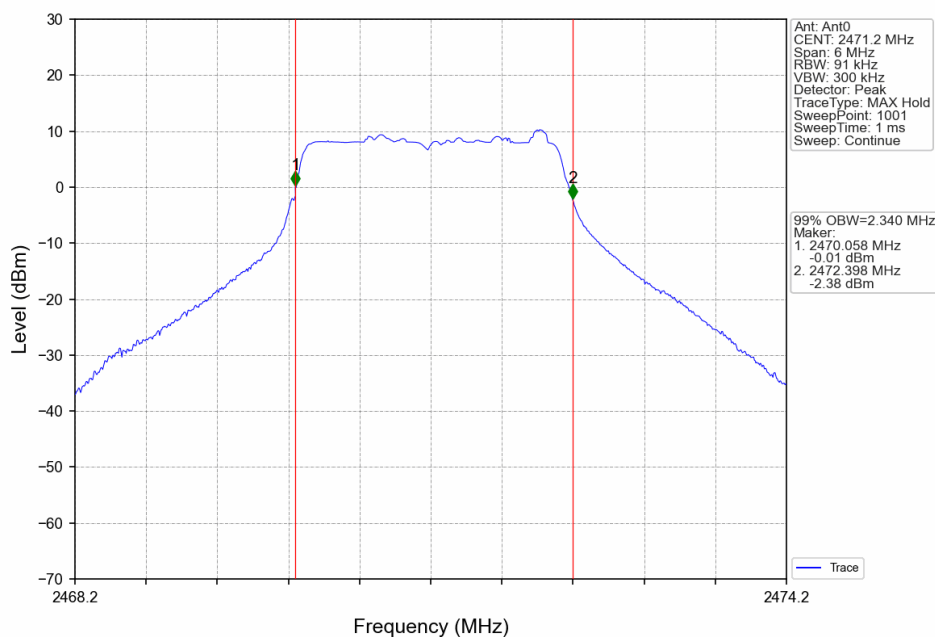
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3M_MCH_2438.5MHz_Ant2_NTNV



3M_HCH_2471.2MHz_Ant2_NTNV



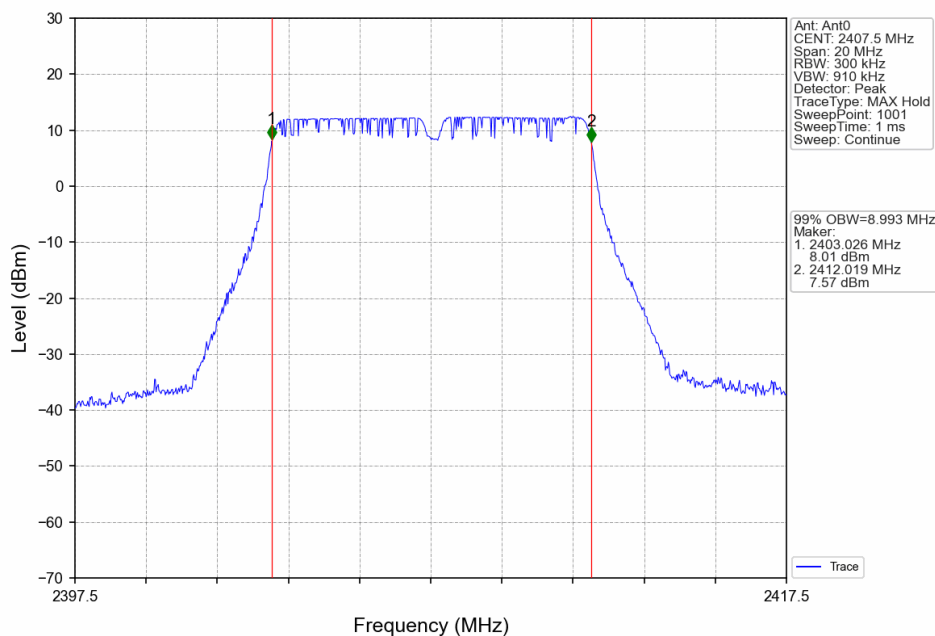
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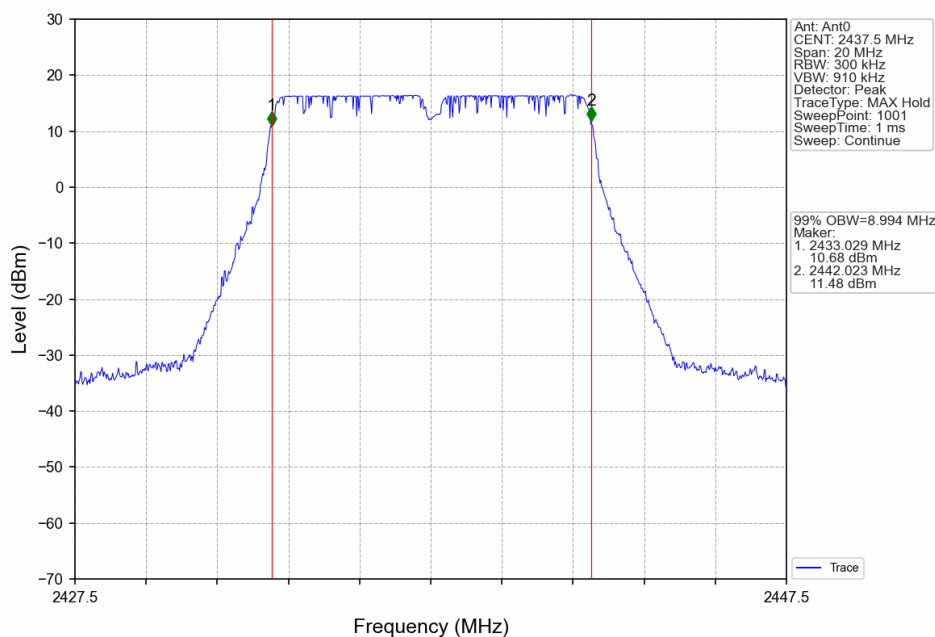
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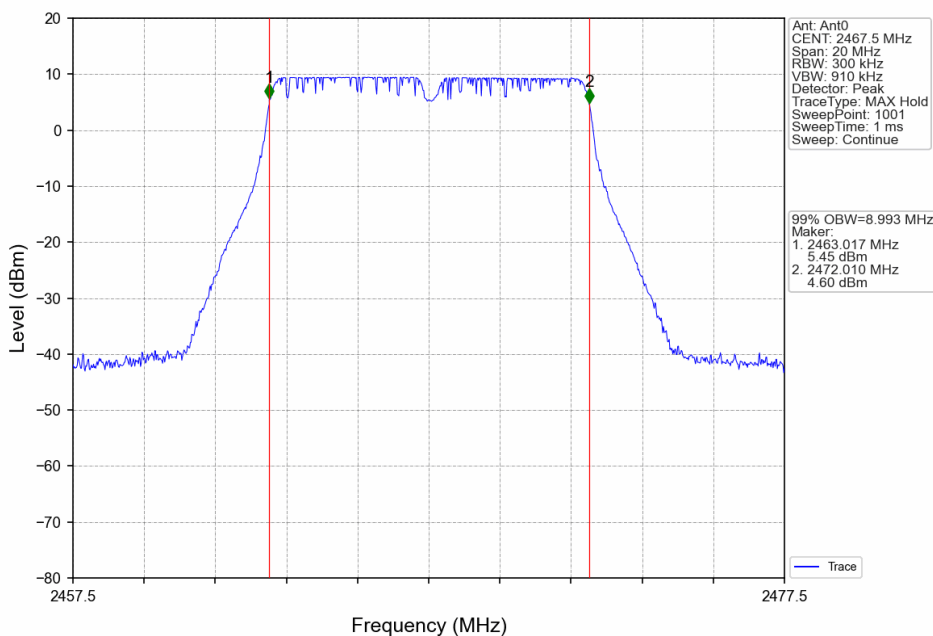
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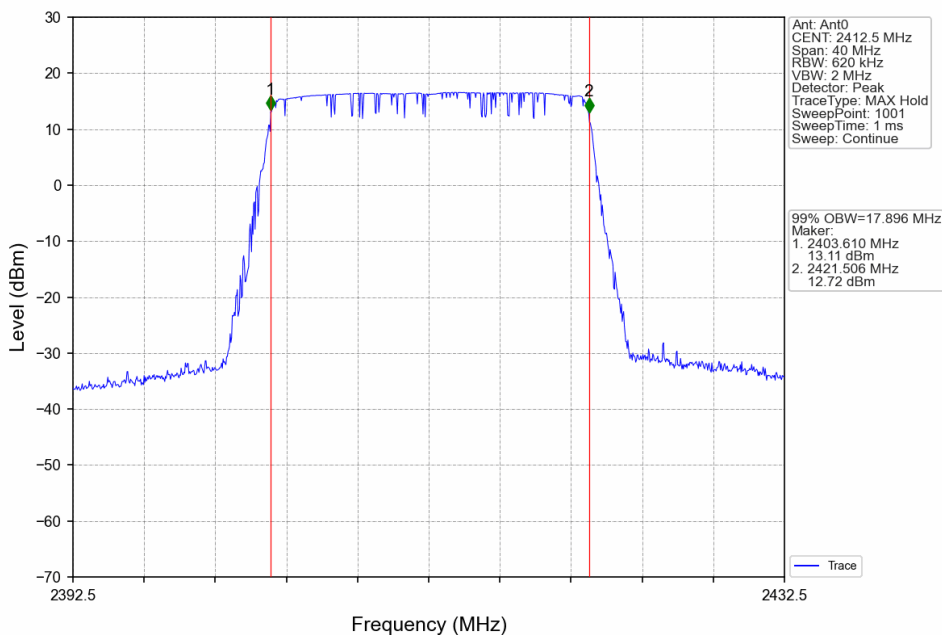
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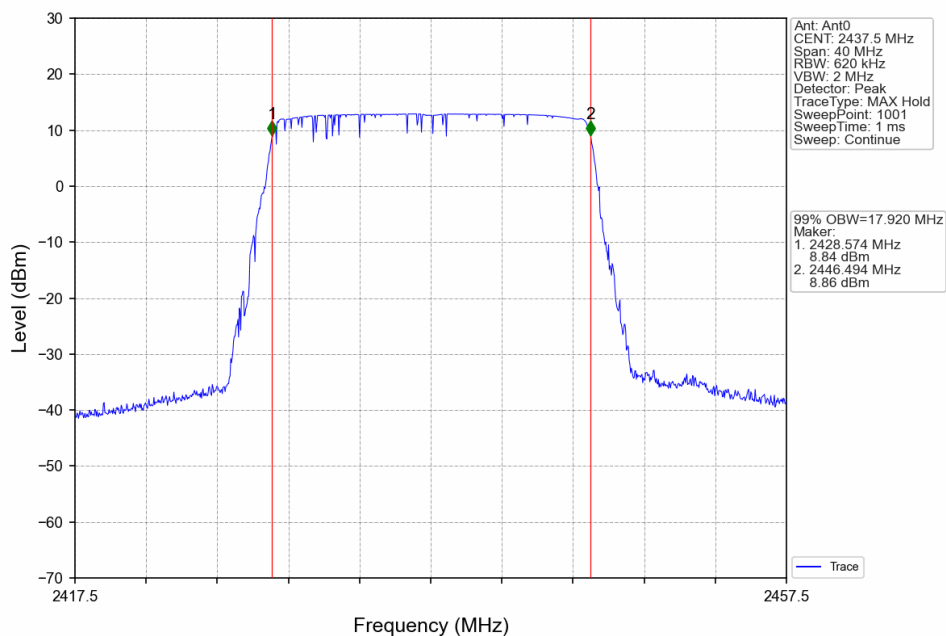
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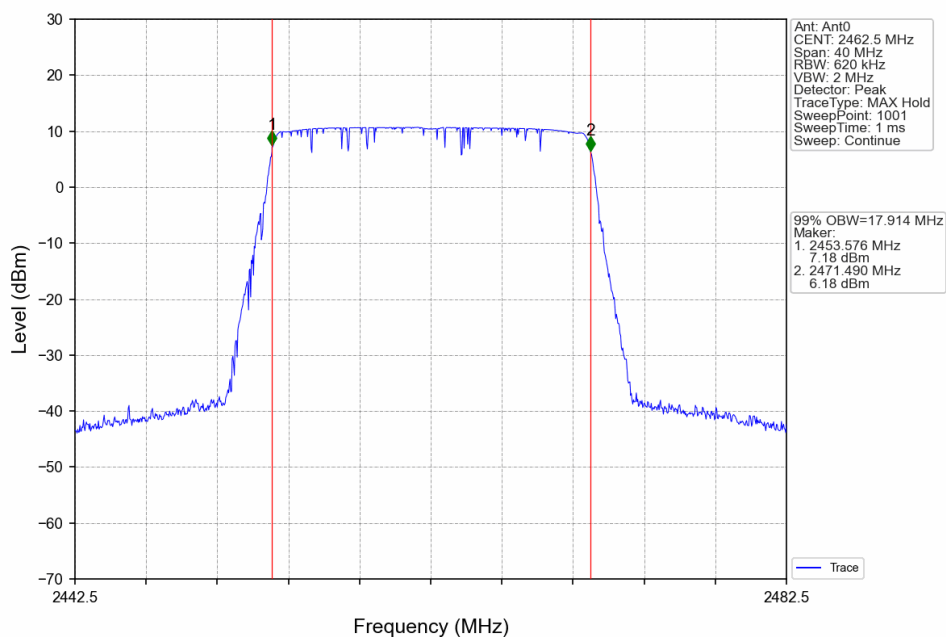
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20M_MCH_2437.5MHz_Ant2_NTNV



20M_HCH_2462.5MHz_Ant2_NTNV



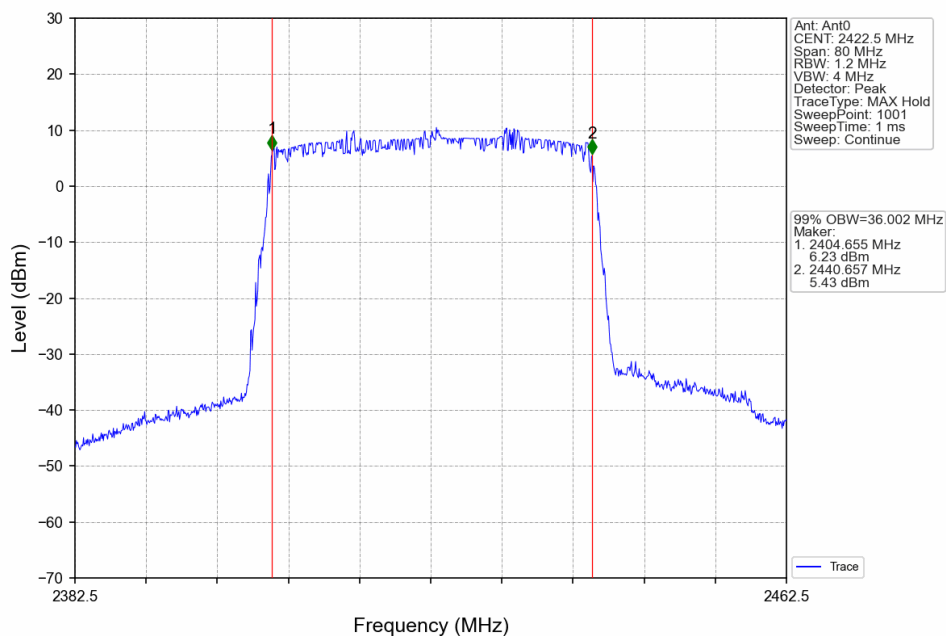
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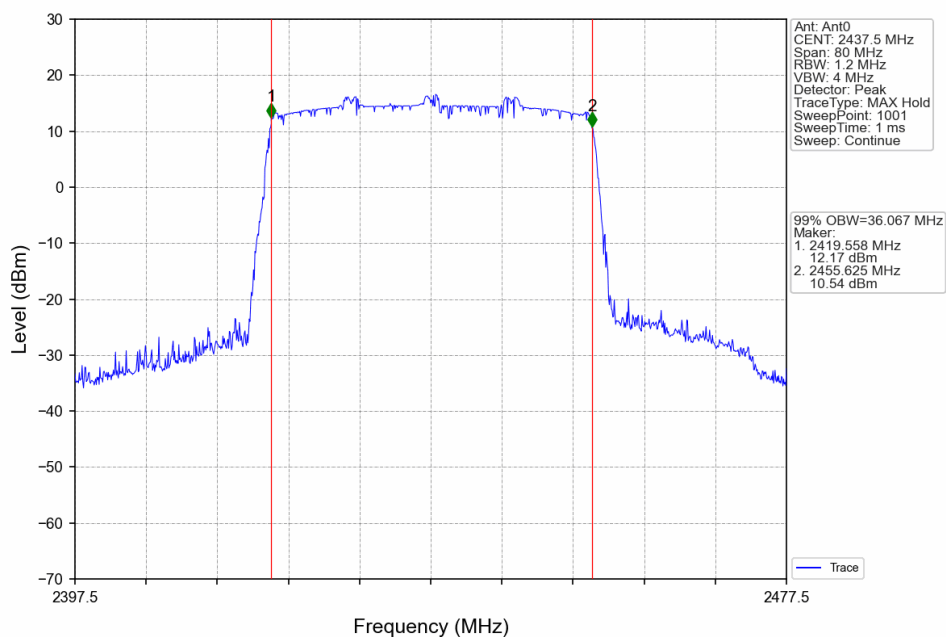
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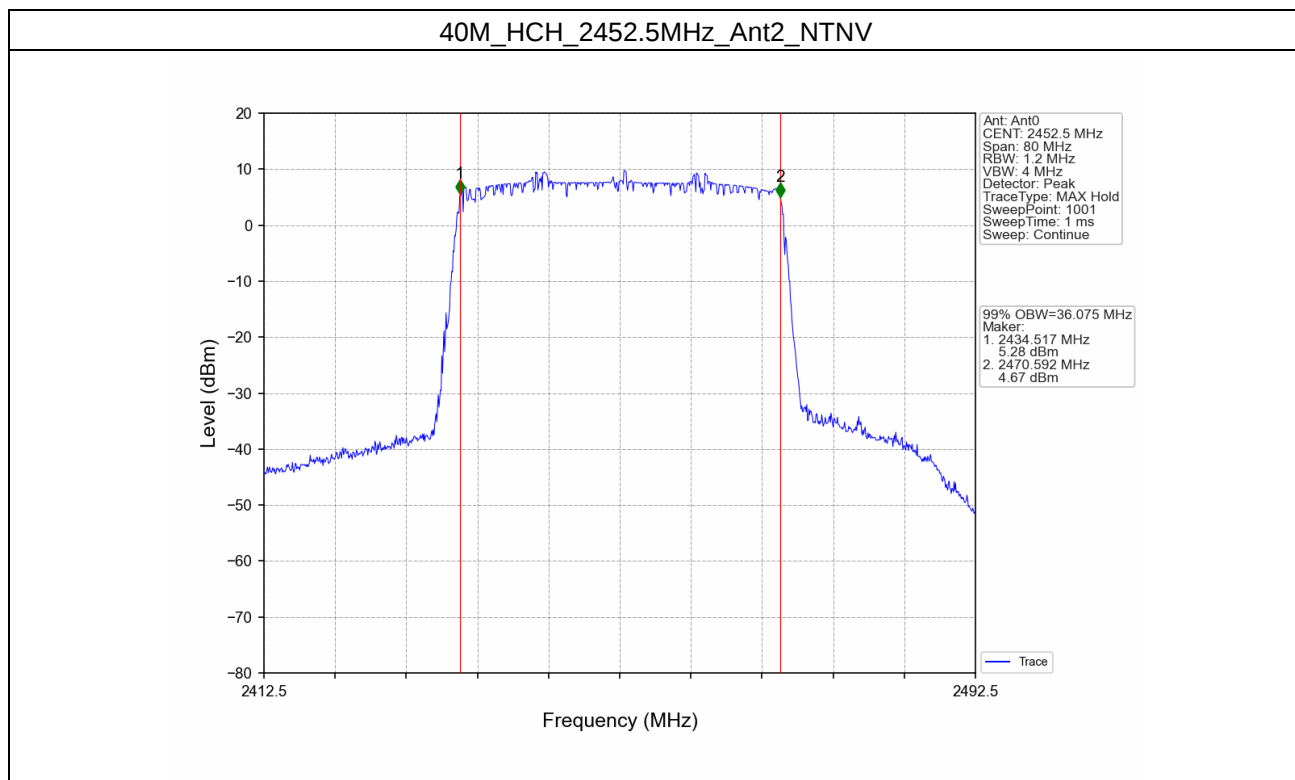
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40M_LCH_2422.5MHz_Ant2_NTNV



40M_MCH_2437.5MHz_Ant2_NTNV





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

Report No.: SZCR230800255902

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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1.4M	MIMO	2403.5	2	1.101	>=0.5	Pass
		2441.5	2	1.102	>=0.5	Pass
		2479.12	2	1.101	>=0.5	Pass
3M	MIMO	2405.5	2	2.202	>=0.5	Pass
		2438.5	2	2.201	>=0.5	Pass
		2471.2	2	2.209	>=0.5	Pass
10M	MIMO	2407.5	2	9.046	>=0.5	Pass
		2437.5	2	9.048	>=0.5	Pass
		2467.5	2	9.061	>=0.5	Pass
20M	MIMO	2412.5	2	17.994	>=0.5	Pass
		2437.5	2	18.013	>=0.5	Pass
		2462.5	2	18.030	>=0.5	Pass
40M	MIMO	2422.5	2	35.989	>=0.5	Pass
		2437.5	2	35.951	>=0.5	Pass
		2452.5	2	35.907	>=0.5	Pass



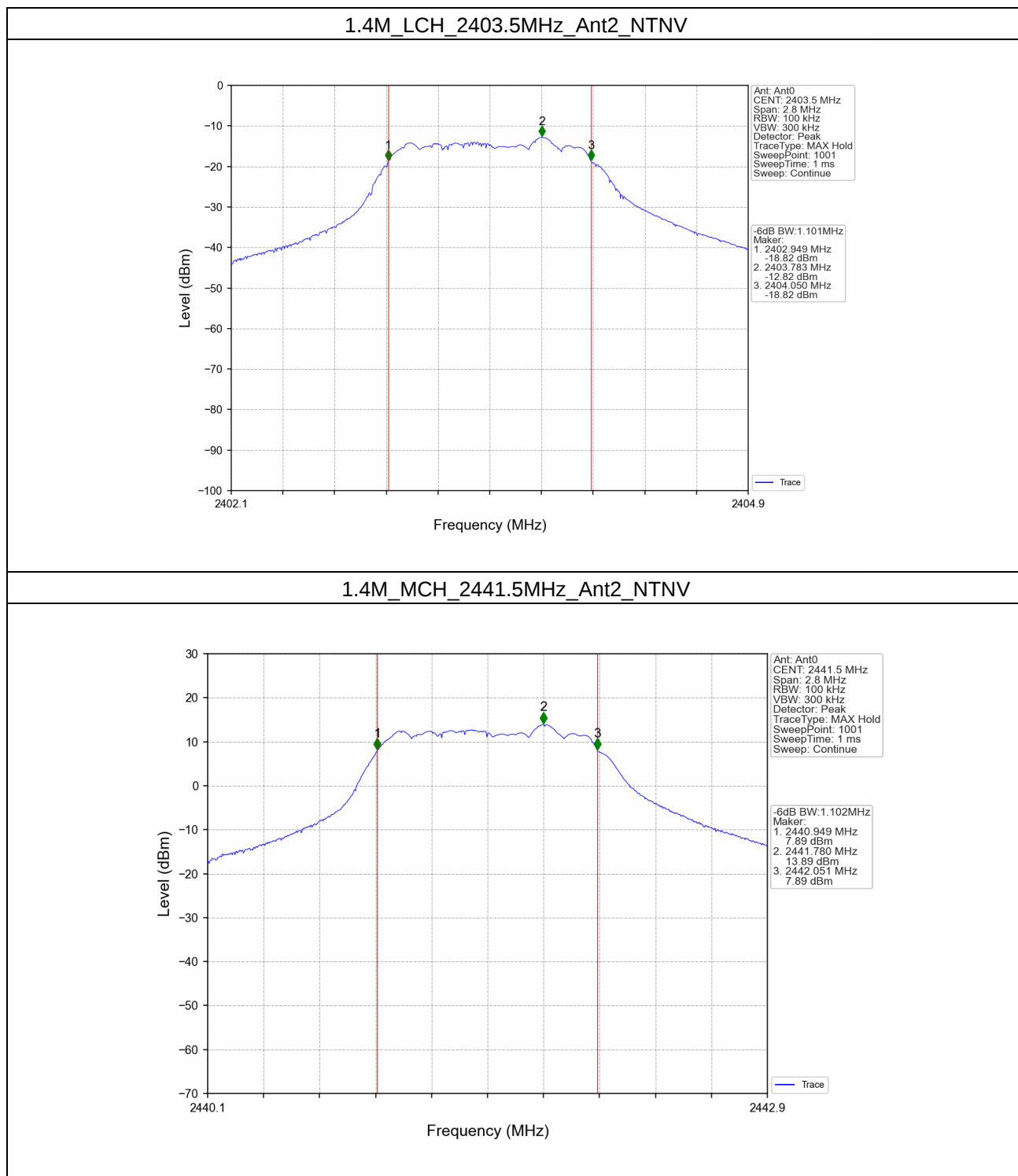
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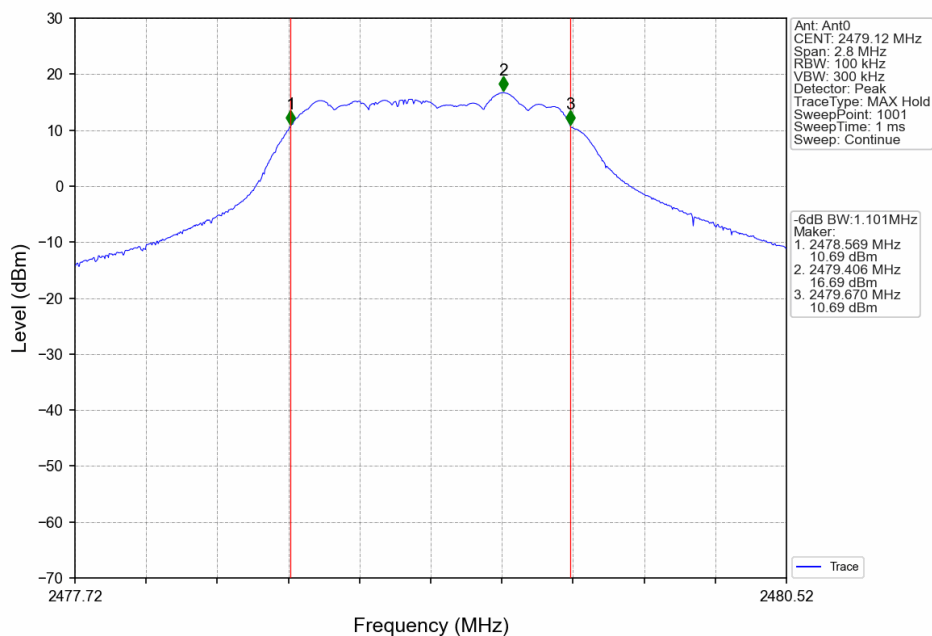
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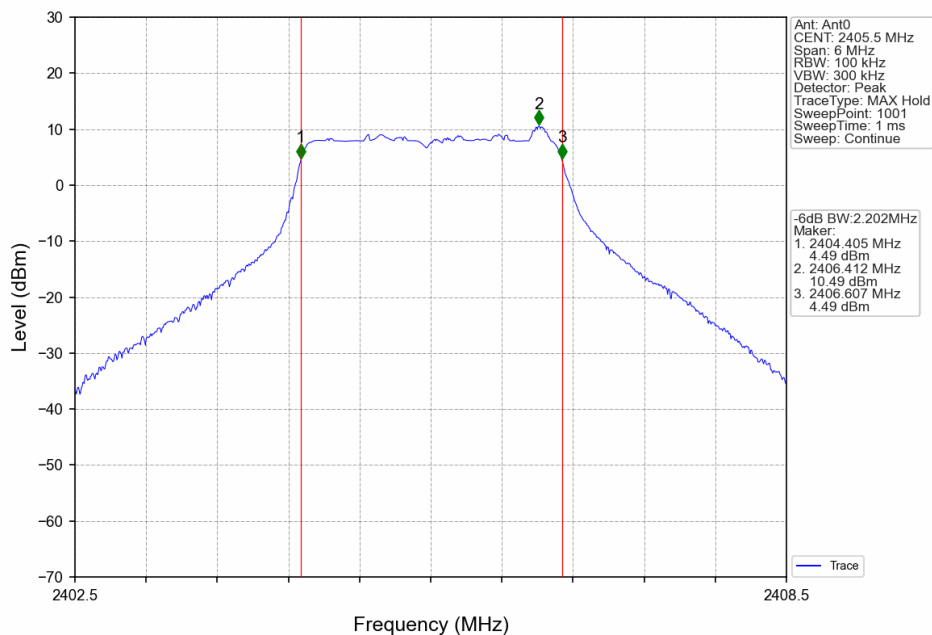
2.2.2 Test Graph



1.4M_HCH_2479.12MHz_Ant2_NTNV



3M_LCH_2405.5MHz_Ant2_NTNV



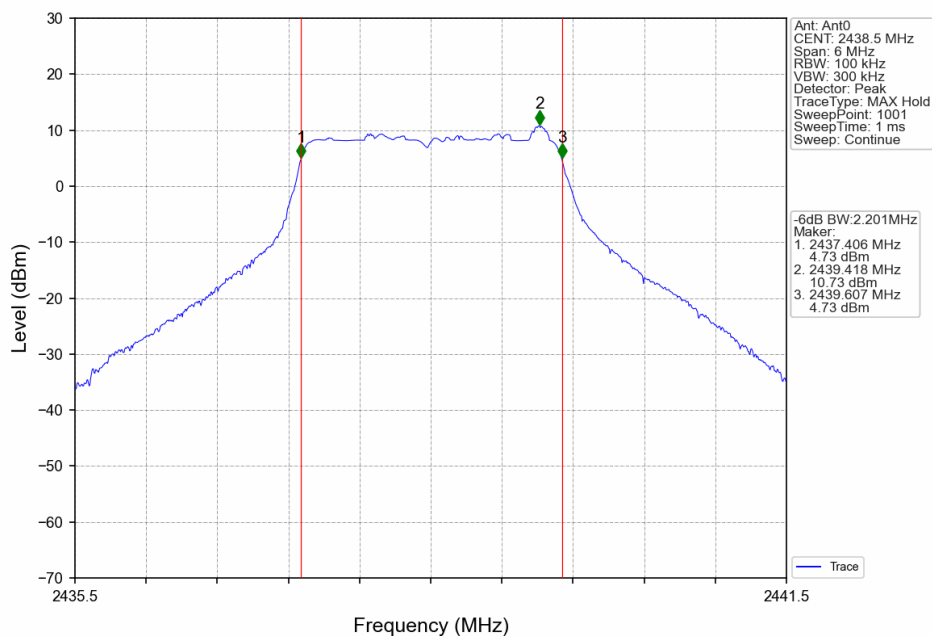
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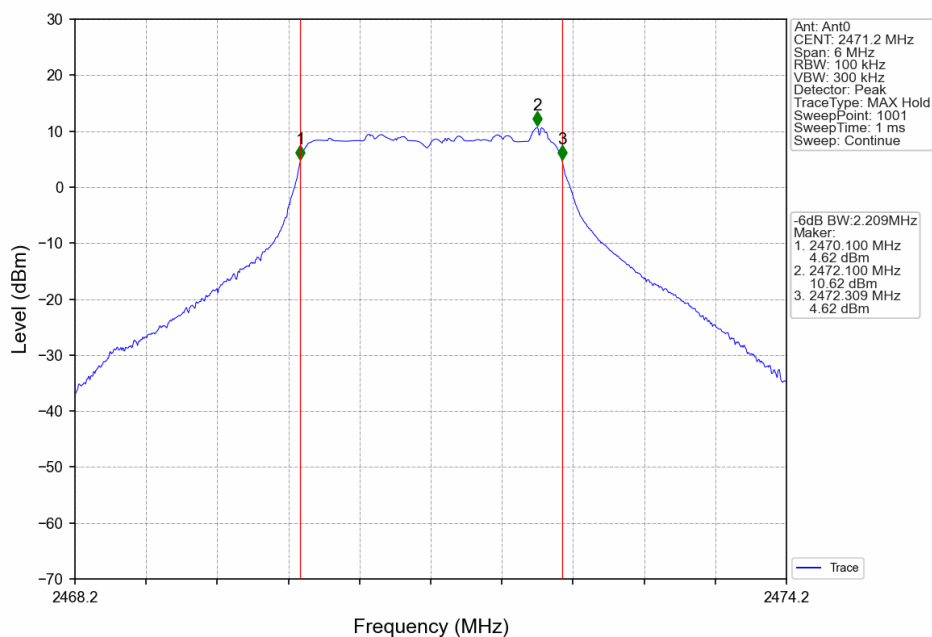
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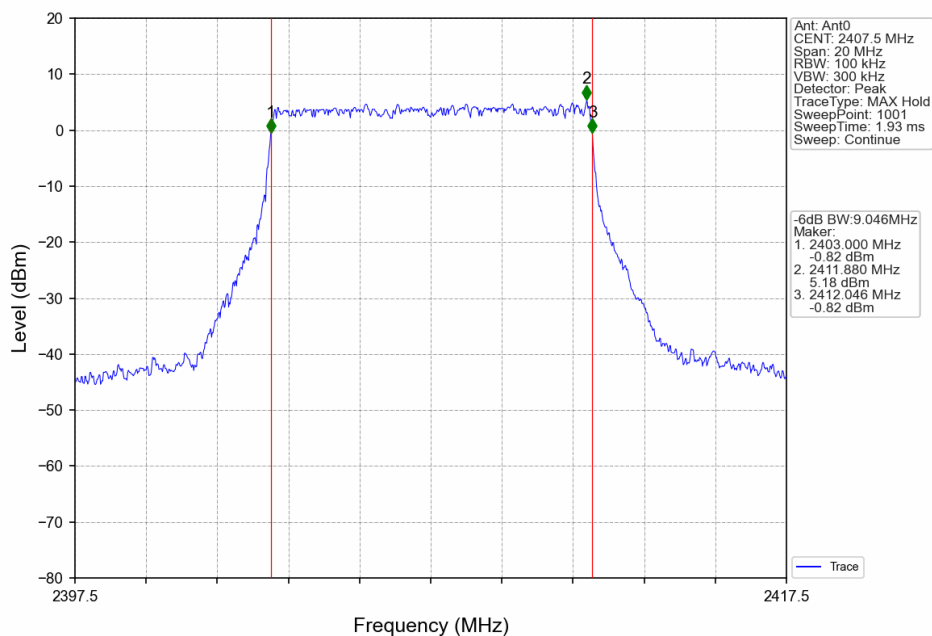
3M_MCH_2438.5MHz_Ant2_NTNV



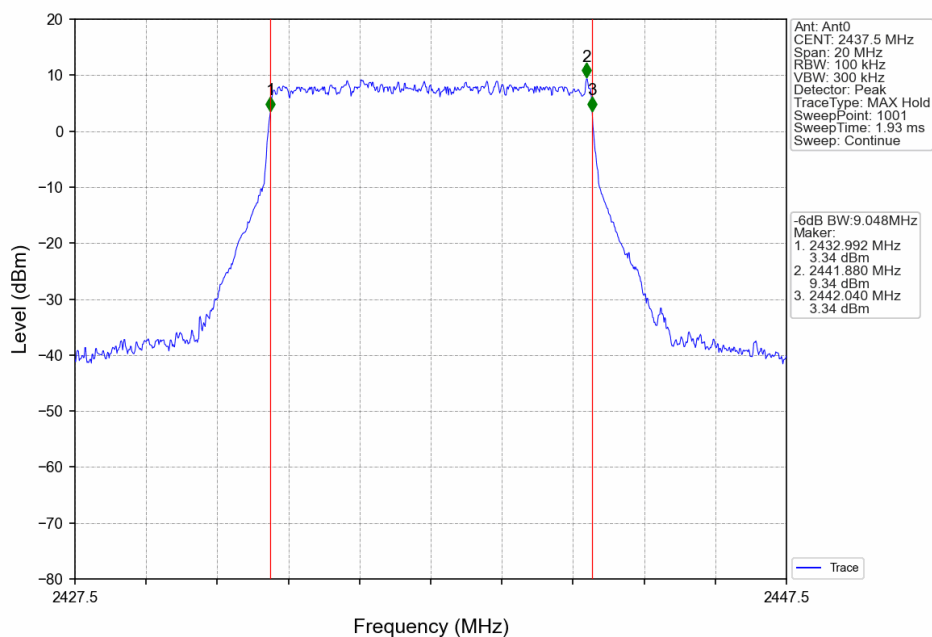
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10M_LCH_2407.5MHz_Ant2_NTNV



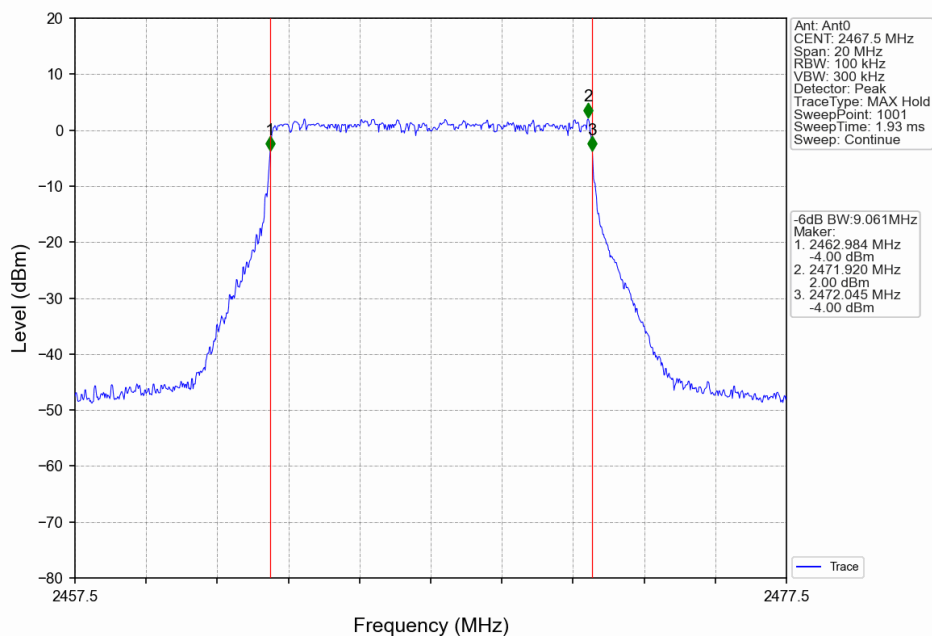
10M_MCH_2437.5MHz_Ant2_NTNV



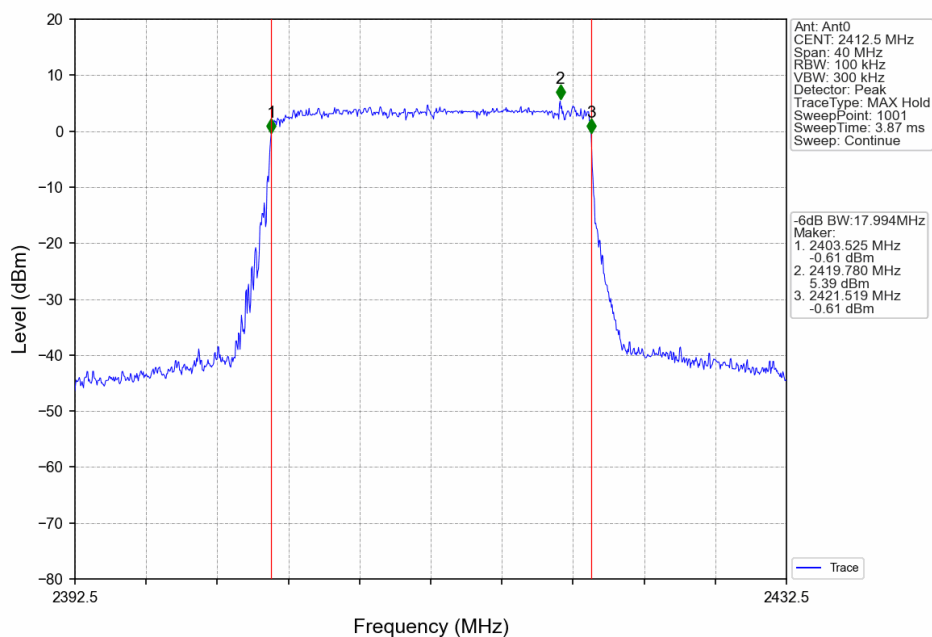
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10M_HCH_2467.5MHz_Ant2_NTNV



20M_LCH_2412.5MHz_Ant2_NTNV



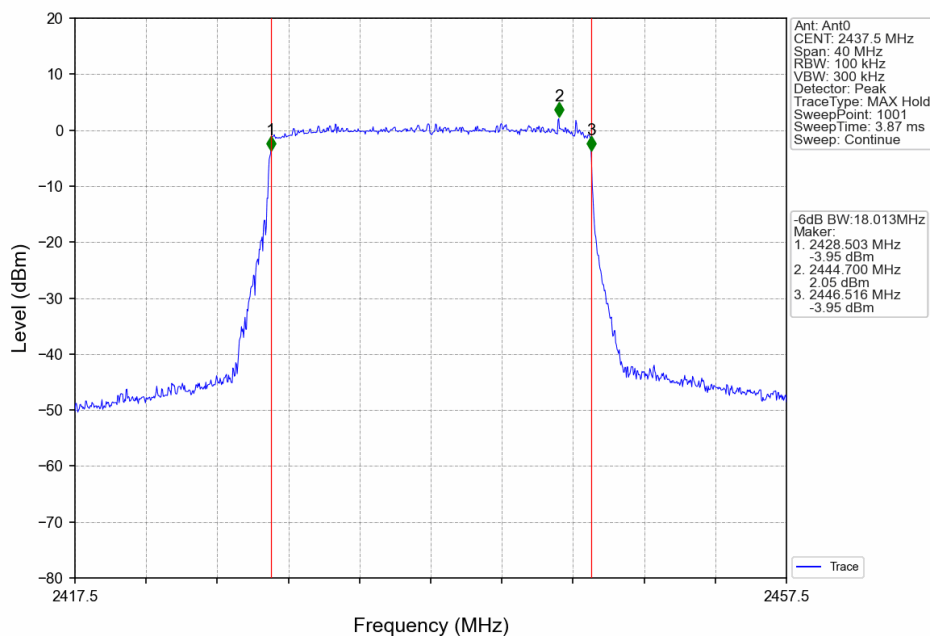
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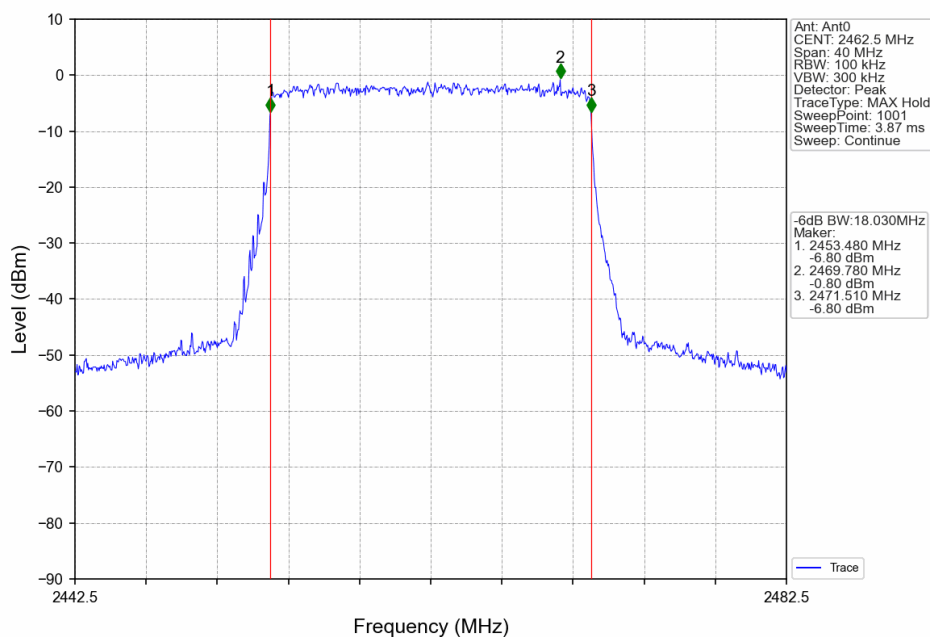
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20M_MCH_2437.5MHz_Ant2_NTNV



20M_HCH_2462.5MHz_Ant2_NTNV



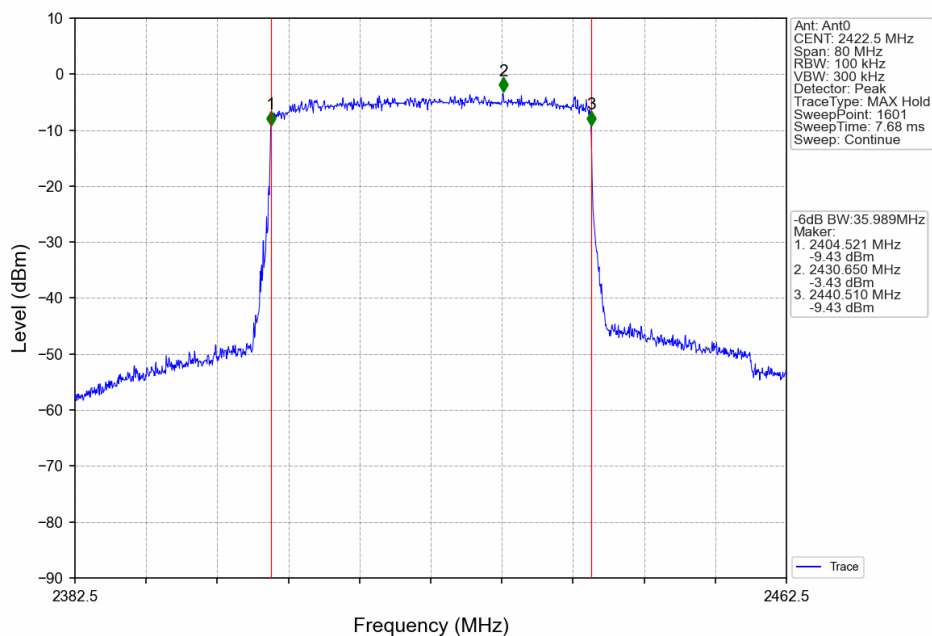
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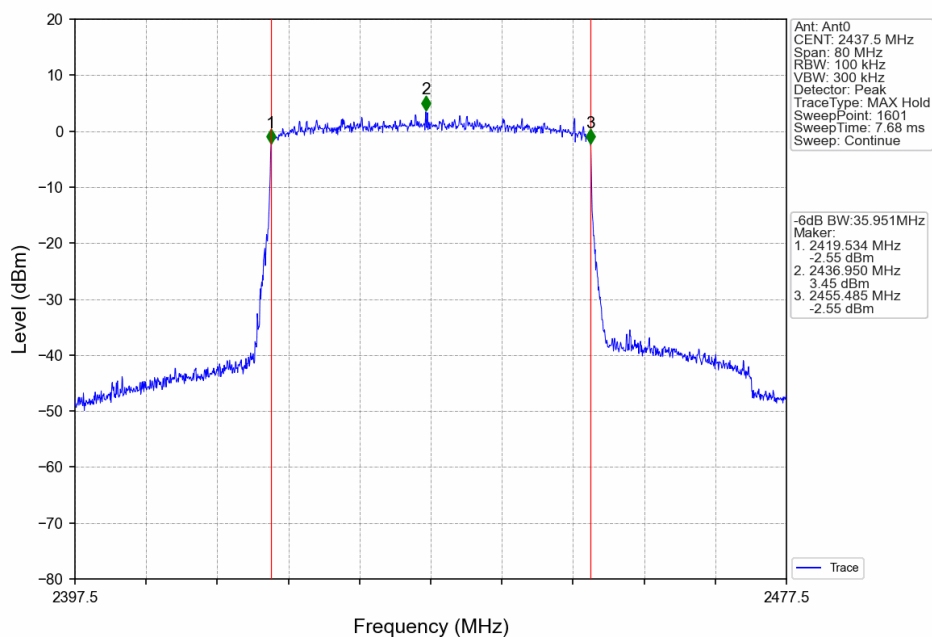
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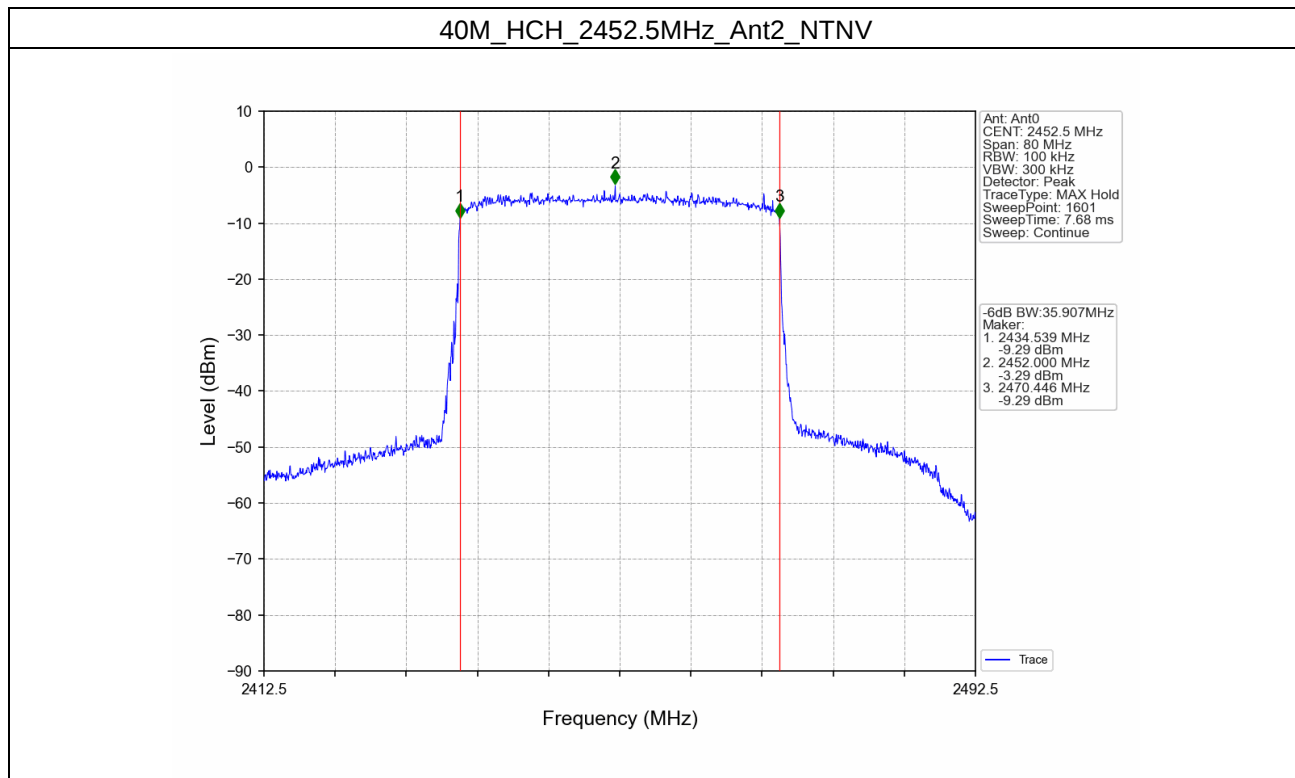
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40M_LCH_2422.5MHz_Ant2_NTNV



40M_MCH_2437.5MHz_Ant2_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
			ANT2	ANT3	MIMO	Limit	
1.4M	MIMO	2403.5	13.23	14.22	16.76	<=28.75	Pass
		2441.5	13.57	14.29	16.96	<=28.75	Pass
		2479.12	7.37	8.66	11.07	<=28.75	Pass
3M	MIMO	2405.5	13.22	14.25	16.78	<=28.75	Pass
		2438.5	13.49	14.21	16.88	<=28.75	Pass
		2471.2	10.23	11.50	13.92	<=28.75	Pass
10M	MIMO	2407.5	14.52	15.60	18.10	<=28.75	Pass
		2437.5	23.40	24.30	26.88	<=28.75	Pass
		2467.5	11.36	13.32	15.46	<=28.75	Pass
20M	MIMO	2412.5	13.04	14.09	16.61	<=28.75	Pass
		2437.5	23.45	24.35	26.93	<=28.75	Pass
		2462.5	8.87	10.77	12.93	<=28.75	Pass
40M	MIMO	2422.5	10.15	11.17	13.70	<=28.75	Pass
		2437.5	23.11	24.06	26.62	<=28.75	Pass
		2452.5	6.91	8.27	10.65	<=28.75	Pass

Note1: Antenna Gain: Ant2: 4.24dBi; Ant3: 4.24dBi;
Note2: Directional gain (dBi) = $G_{ANT}+10 \log(N_{ANT})=4.24dBi+3dB=7.25dBi$



4. Maximum Power Spectral Density

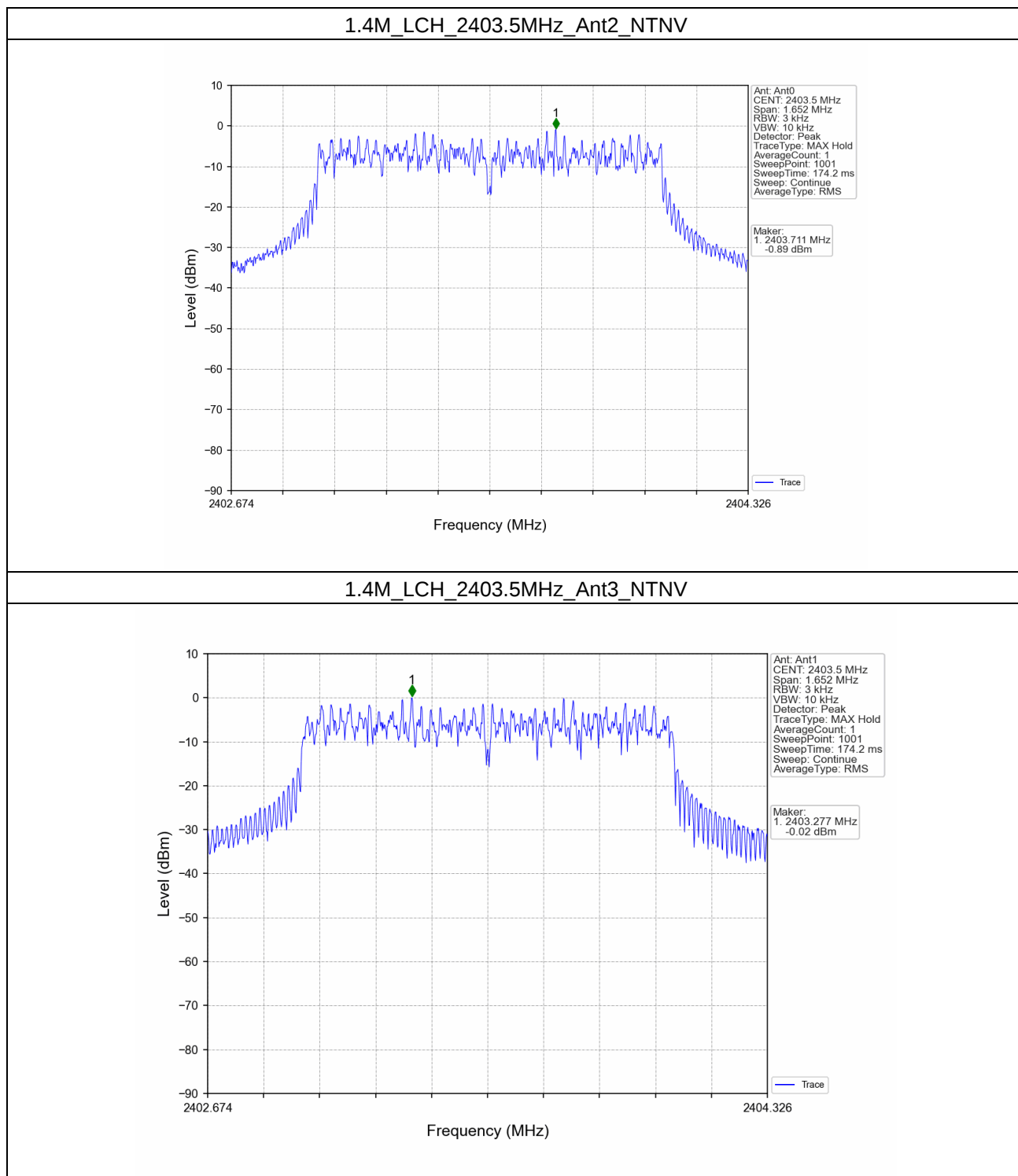
4.1 PSD

4.1.1 Test Result

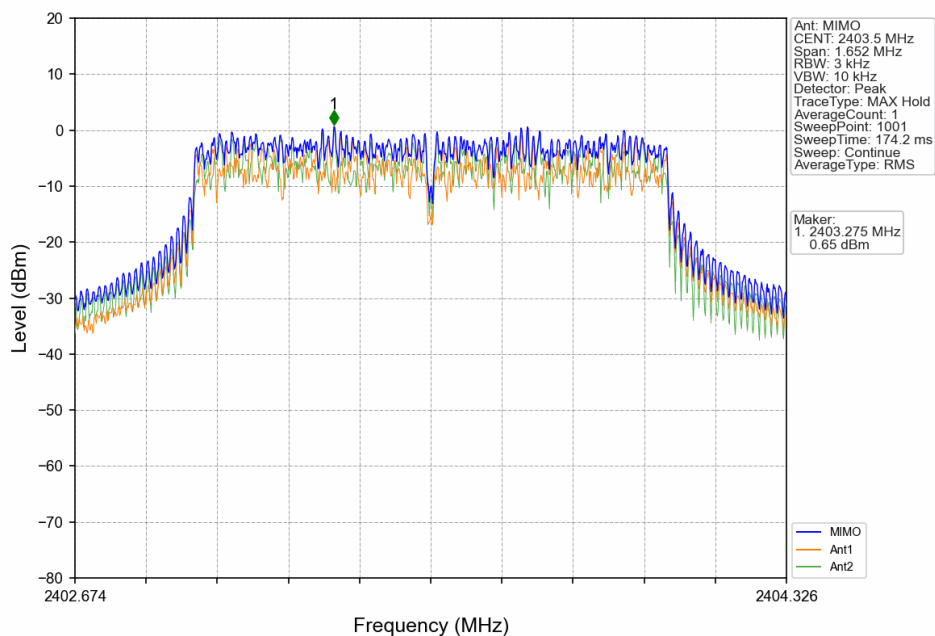
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT2	ANT3	MIMO	Limit	
1.4M	MIMO	2403.5	-0.89	-0.02	0.65	<=8	Pass
		2441.5	-0.50	0.06	0.89	<=8	Pass
		2479.12	-6.58	-5.44	-4.80	<=8	Pass
3M	MIMO	2405.5	-3.63	-2.79	-1.84	<=8	Pass
		2438.5	-3.08	-2.82	-1.80	<=8	Pass
		2471.2	-6.39	-5.45	-4.70	<=8	Pass
10M	MIMO	2407.5	-10.87	-9.08	-7.68	<=8	Pass
		2437.5	-2.38	-0.57	1.51	<=8	Pass
		2467.5	-13.84	-12.40	-10.76	<=8	Pass
20M	MIMO	2412.5	-15.06	-13.50	-12.25	<=8	Pass
		2437.5	-4.98	-3.64	-2.05	<=8	Pass
		2462.5	-19.11	-17.75	-15.90	<=8	Pass
40M	MIMO	2422.5	-20.88	-19.57	-17.53	<=8	Pass
		2437.5	-7.49	-6.89	-4.55	<=8	Pass
		2452.5	-19.79	-21.98	-17.74	<=8	Pass

Note1: Antenna Gain: Ant2: 4.24dBi; Ant3: 4.24dBi;
Note2: Directional gain (dBi) = $G_{ANT} + 10 \log(N_{ANT}) = 4.24dBi + 3dB = 7.25dBi$

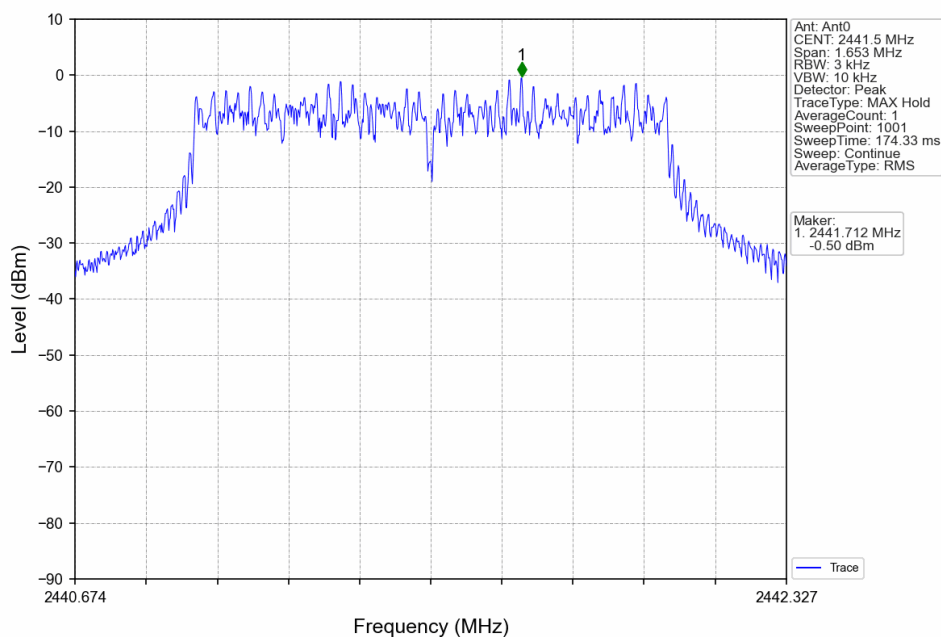
4.1.2 Test Graph



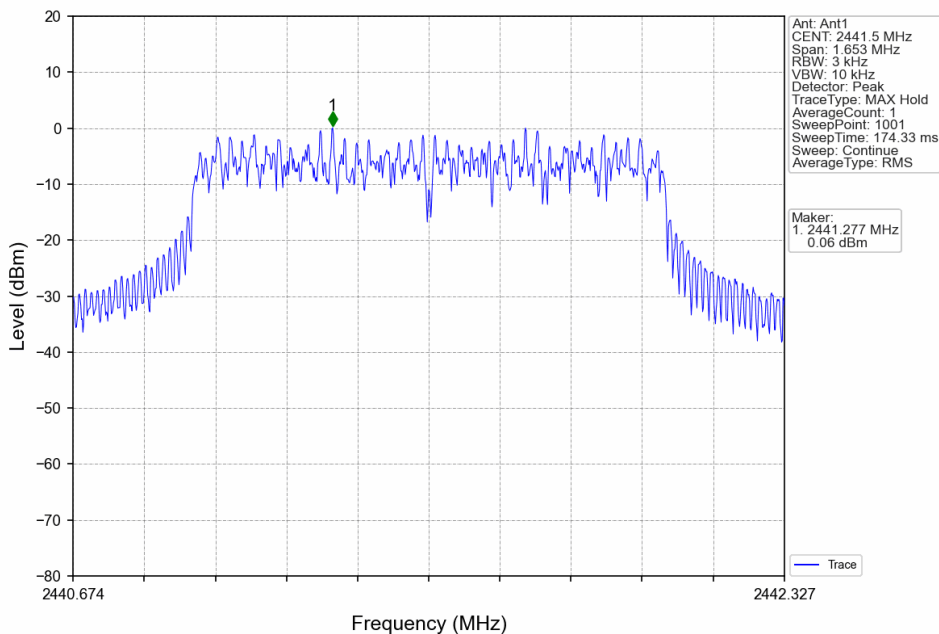
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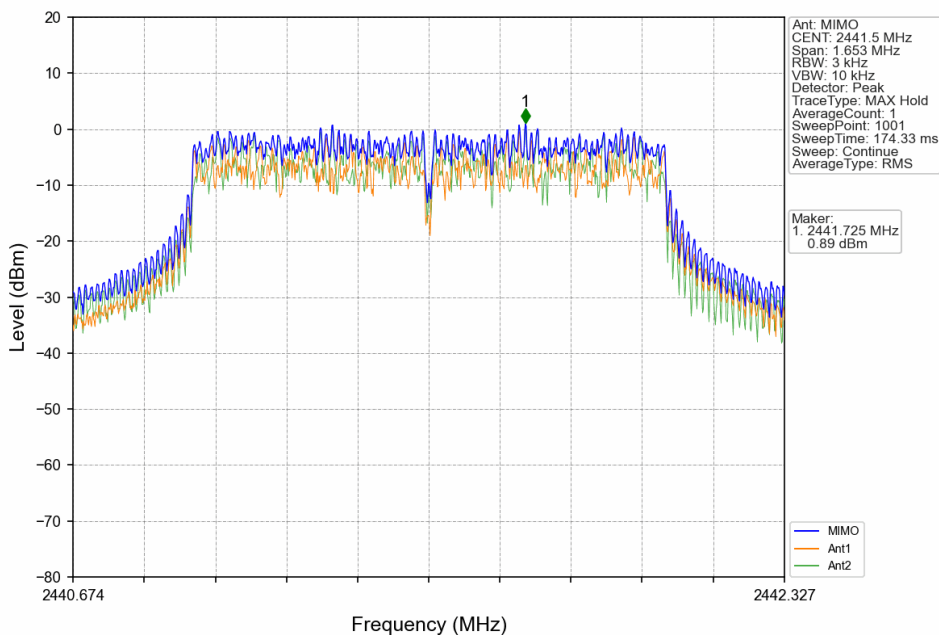
1.4M_MCH_2441.5MHz_Ant2_NTNV



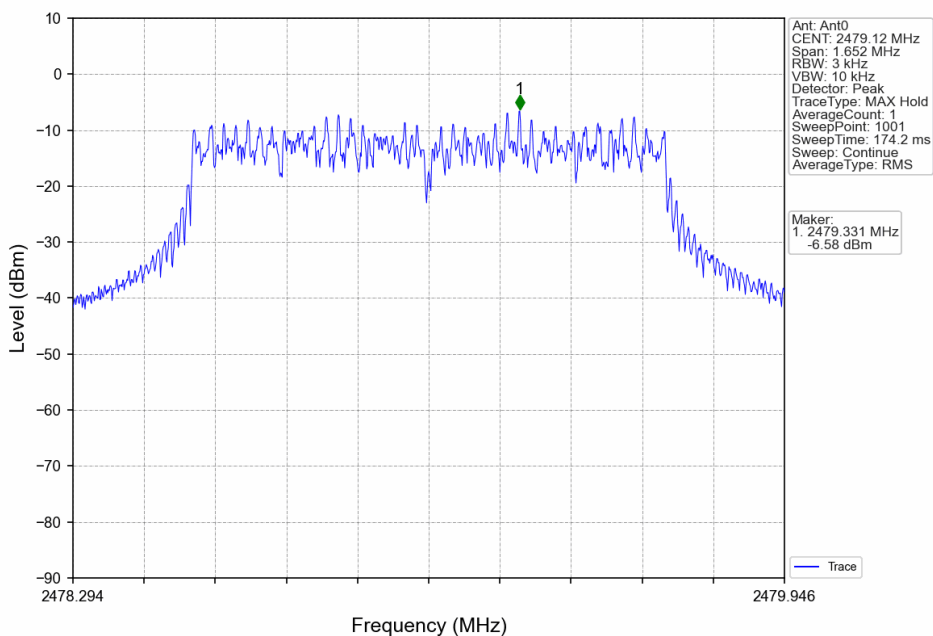
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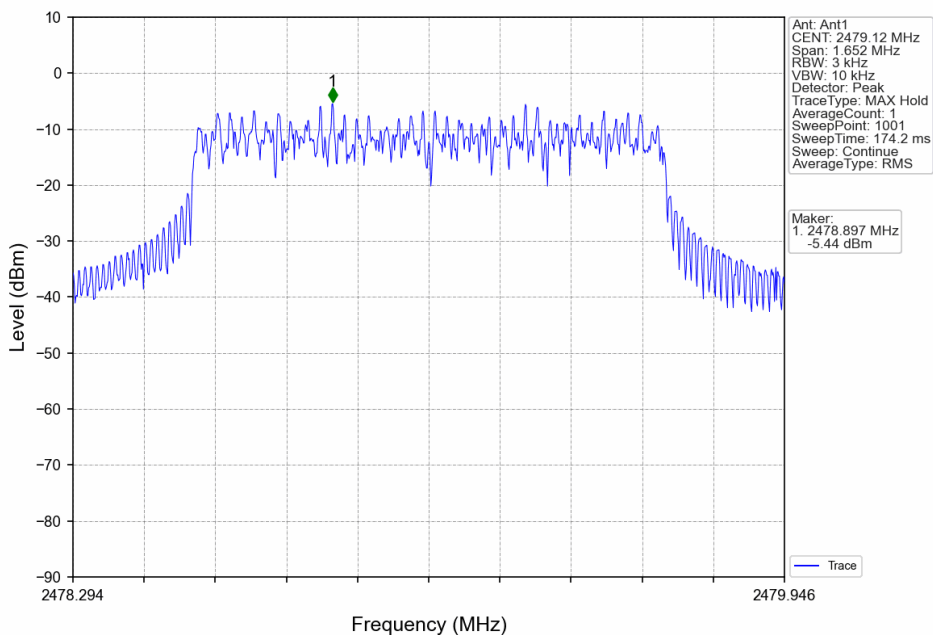
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1.4M_HCH_2479.12MHz_Ant2_NTNV



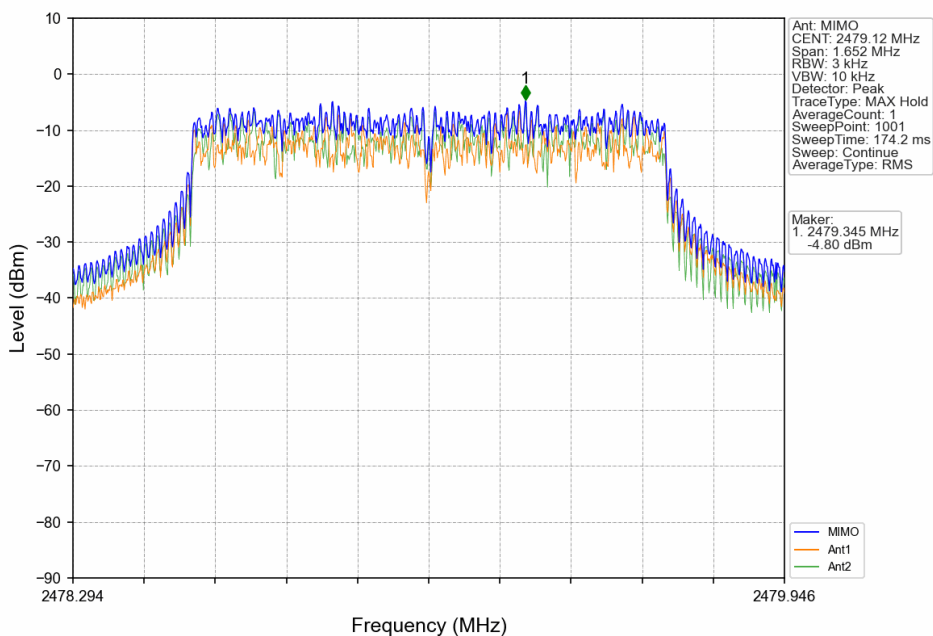
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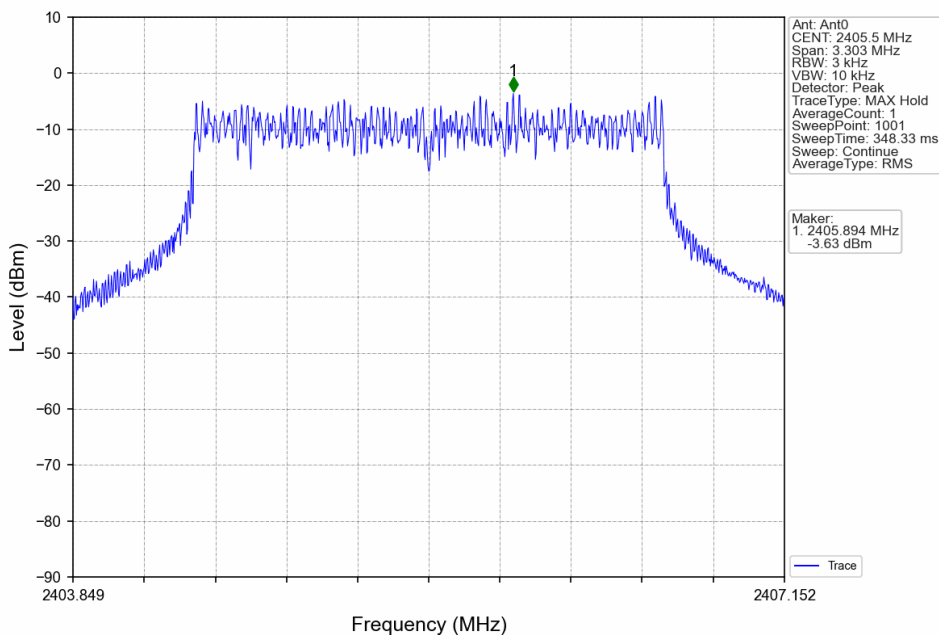
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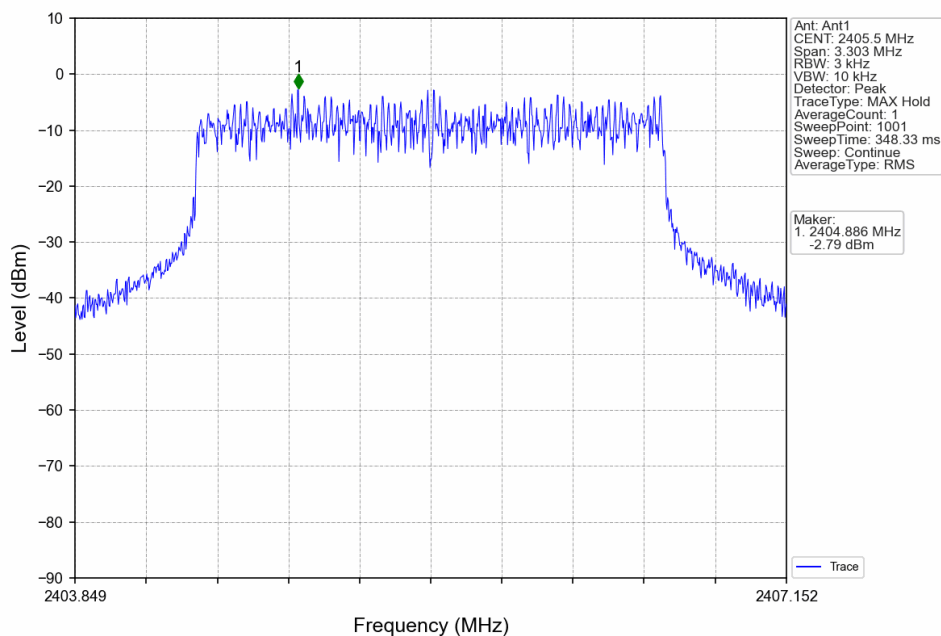
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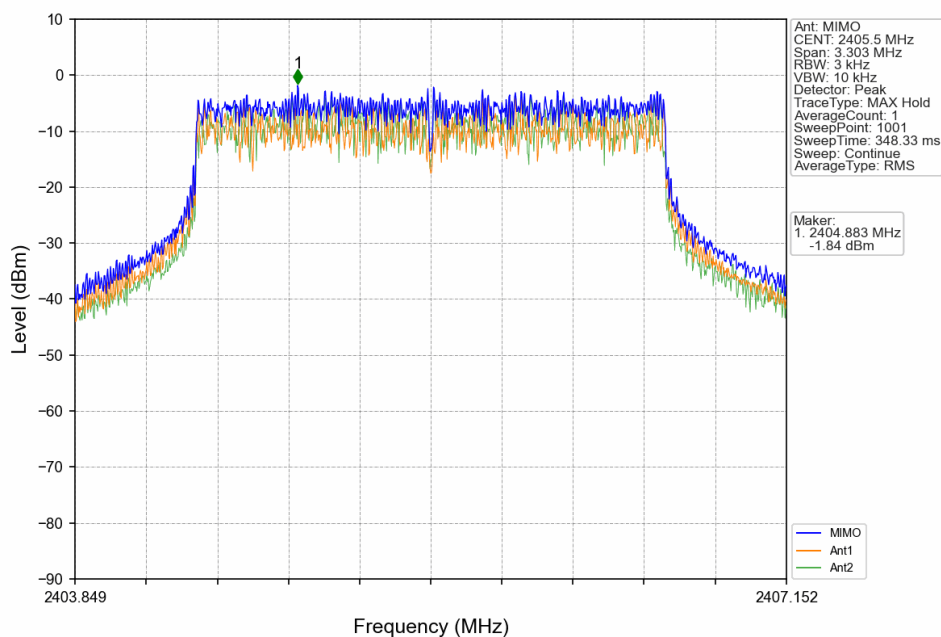
3M_LCH_2405.5MHz_Ant2_NTNV



3M_LCH_2405.5MHz_Ant3_NTNV



3M_LCH_2405.5MHz_MIMO_NTNV



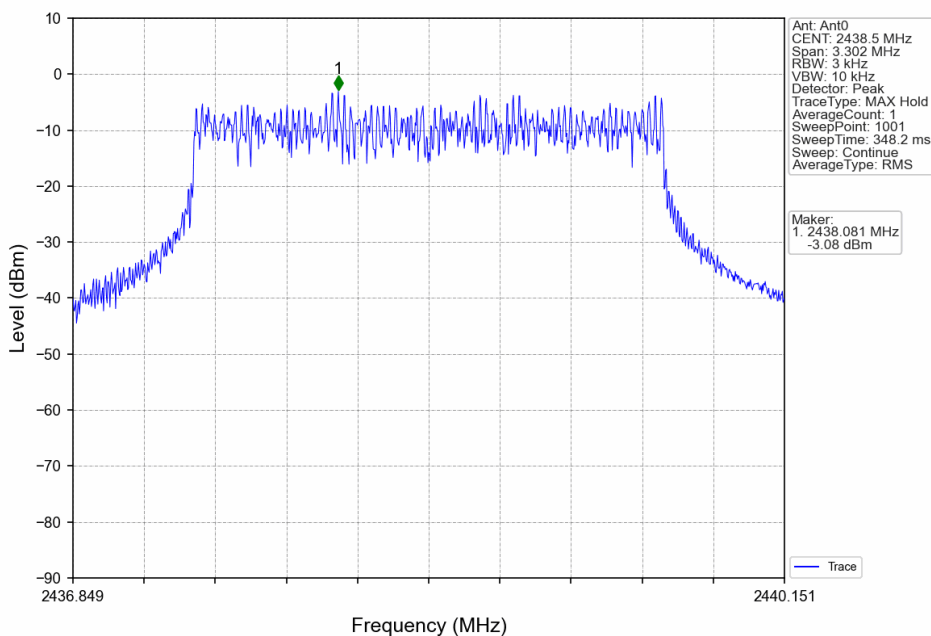
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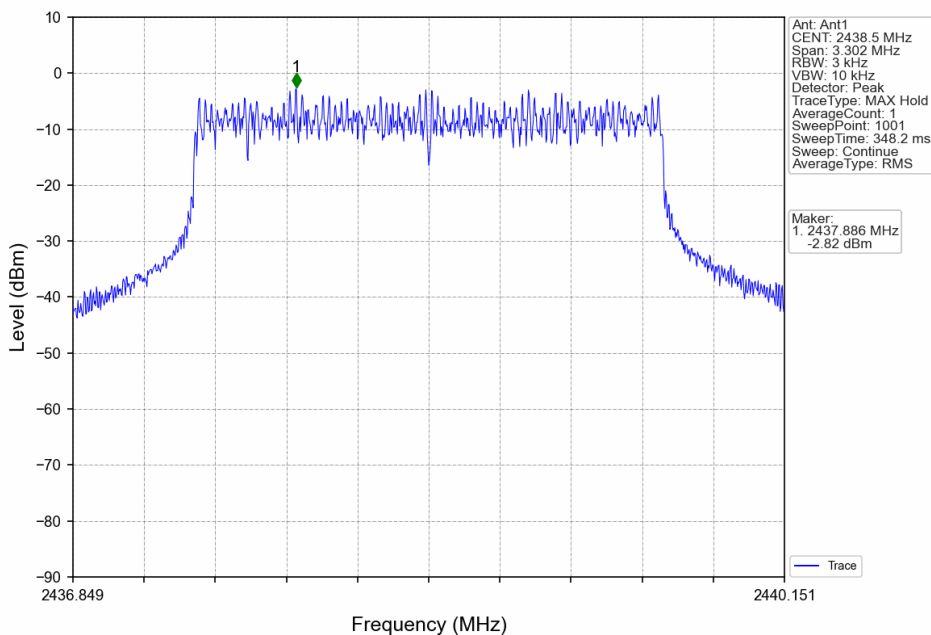
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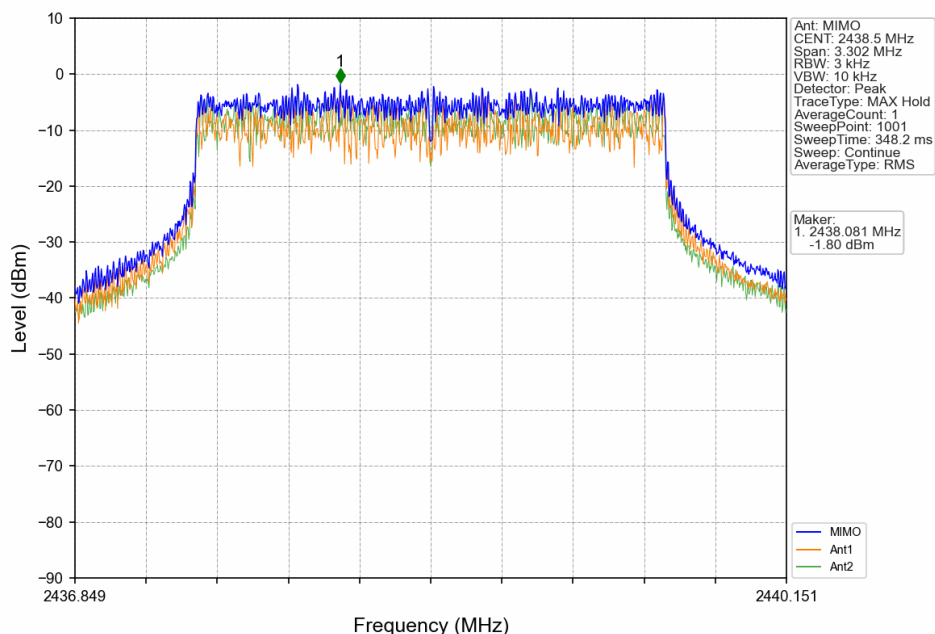
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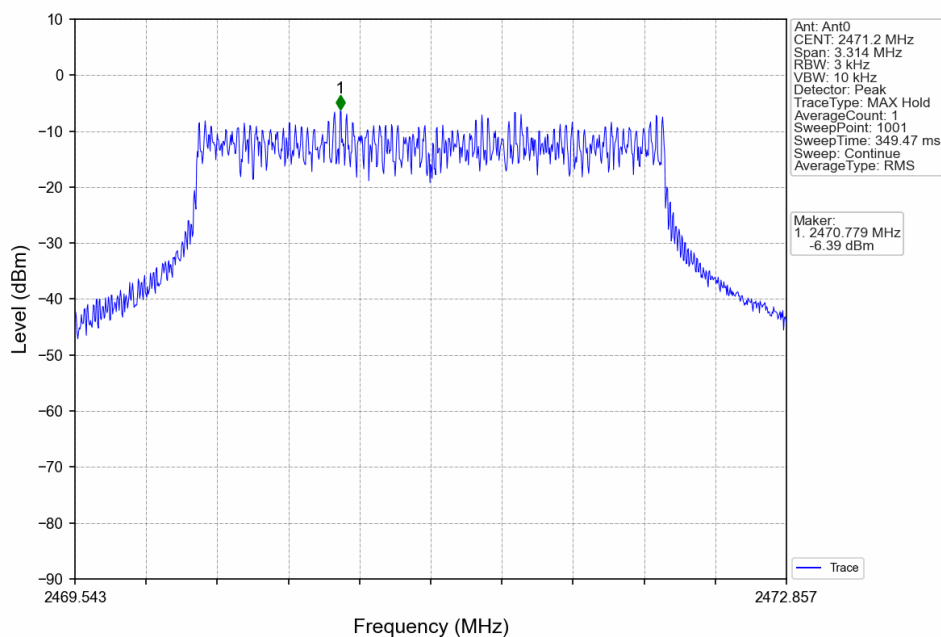
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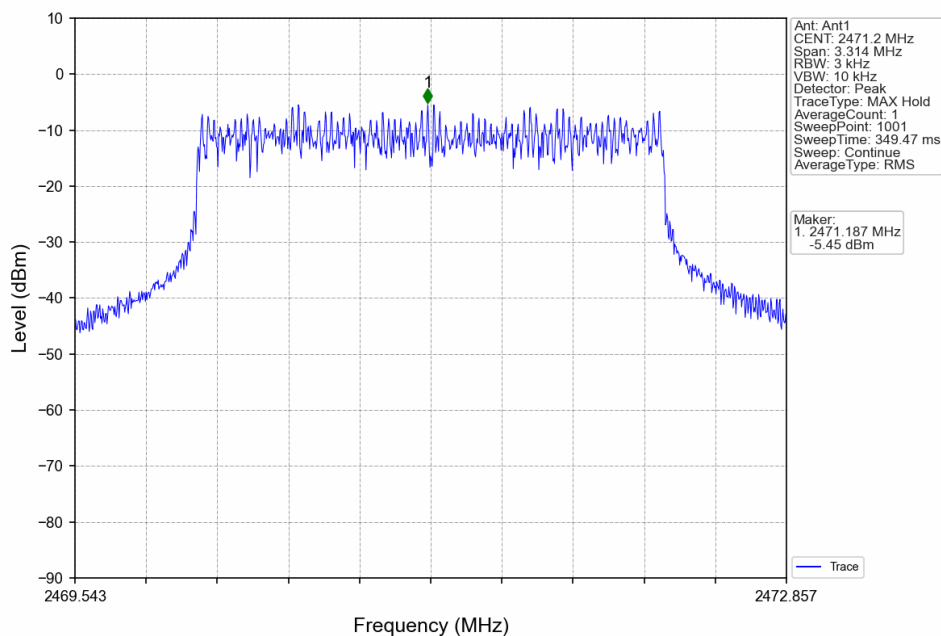
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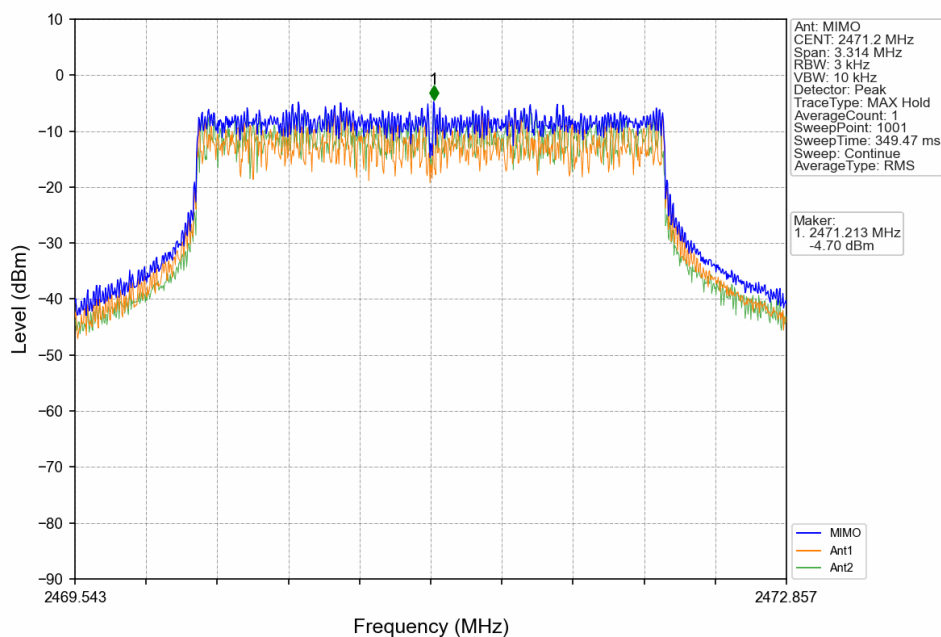
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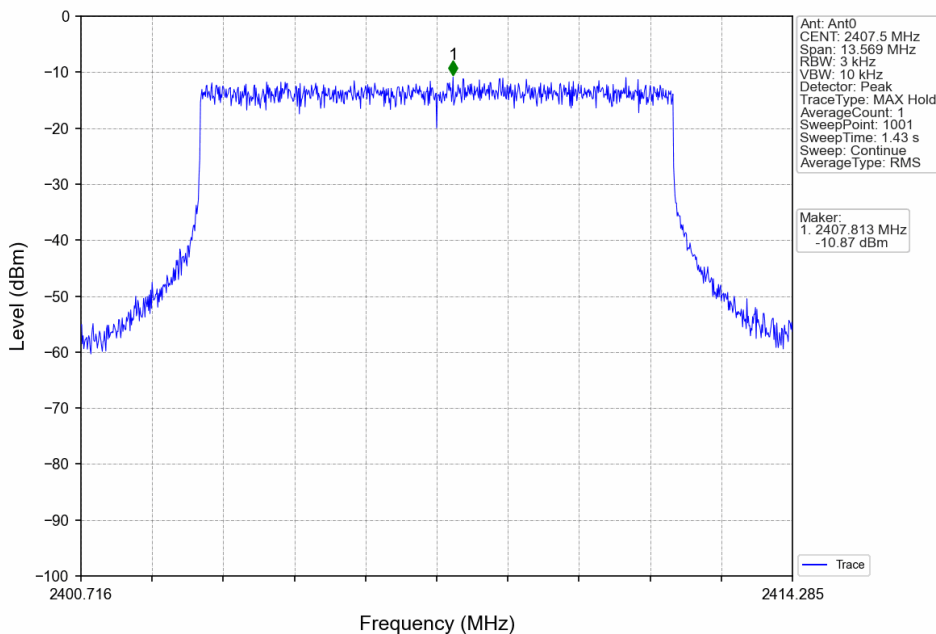
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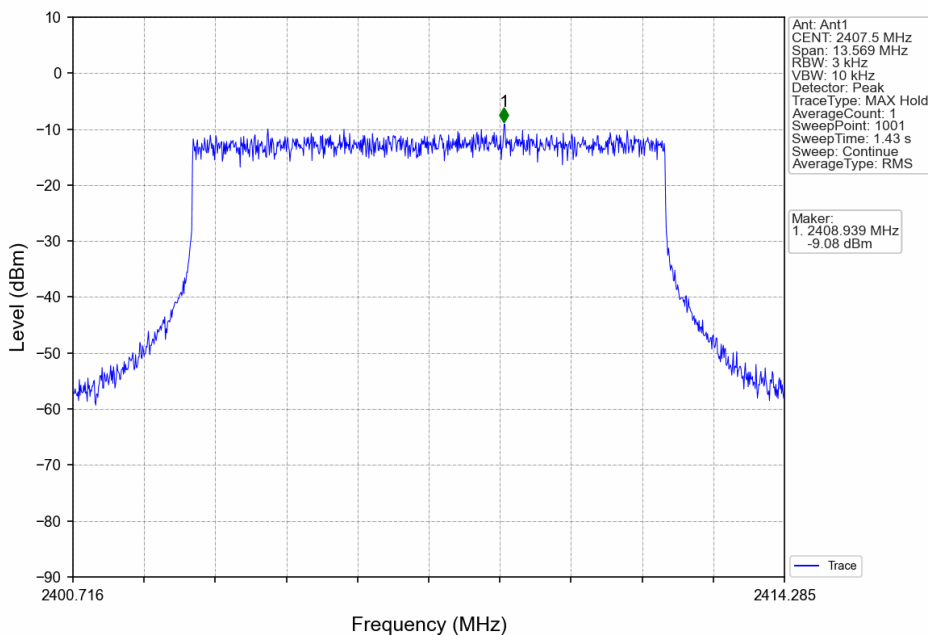
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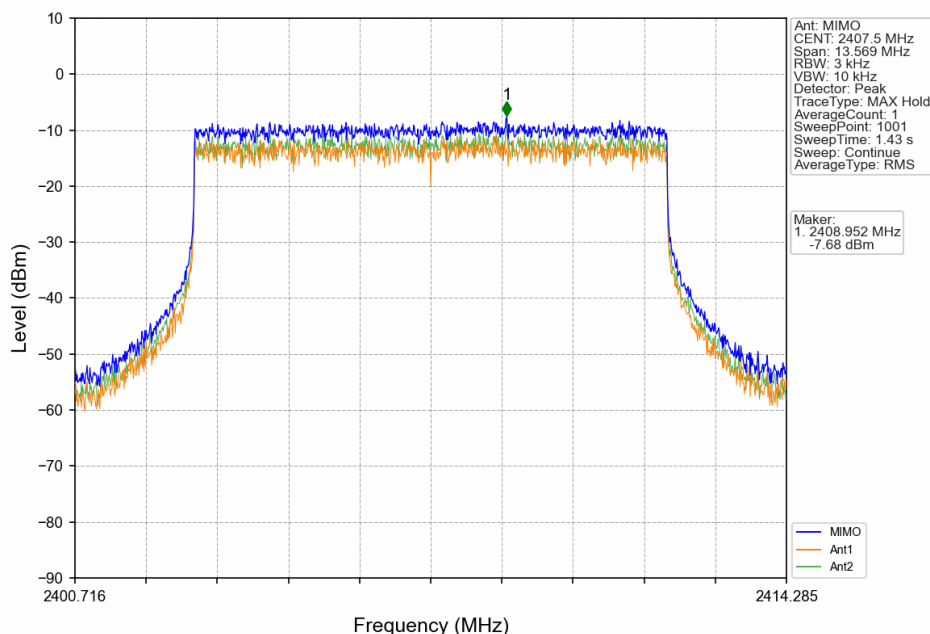
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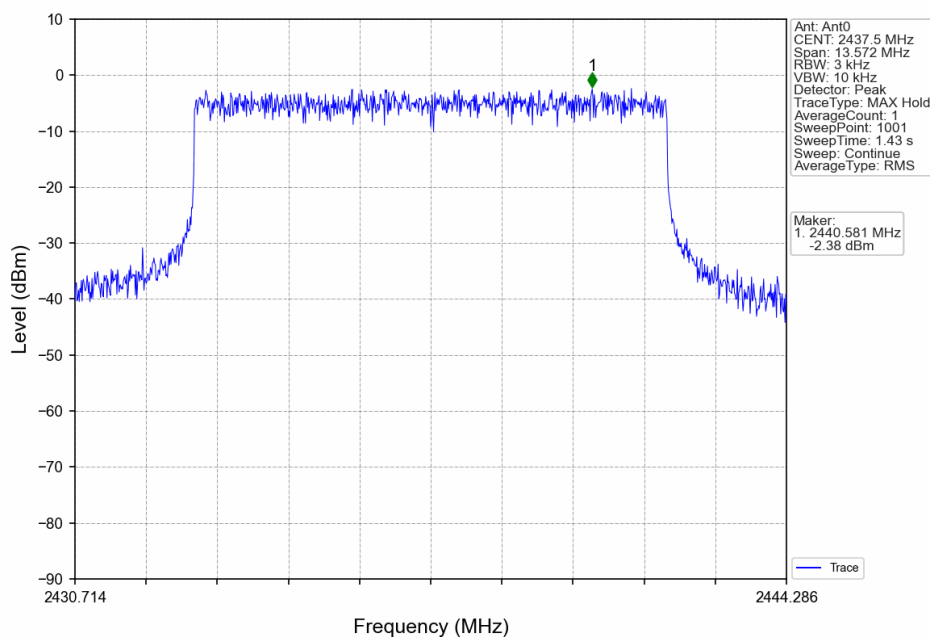
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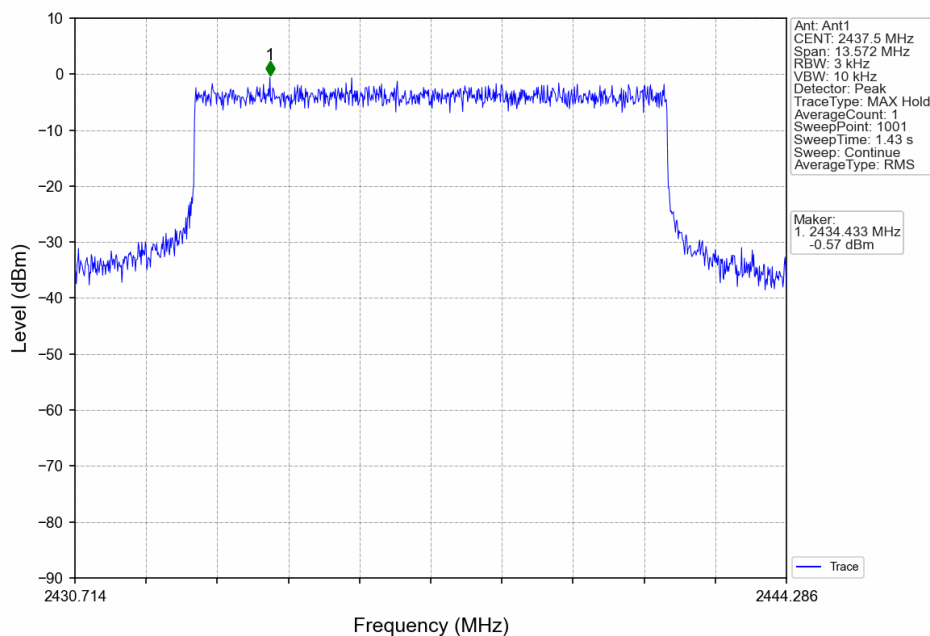
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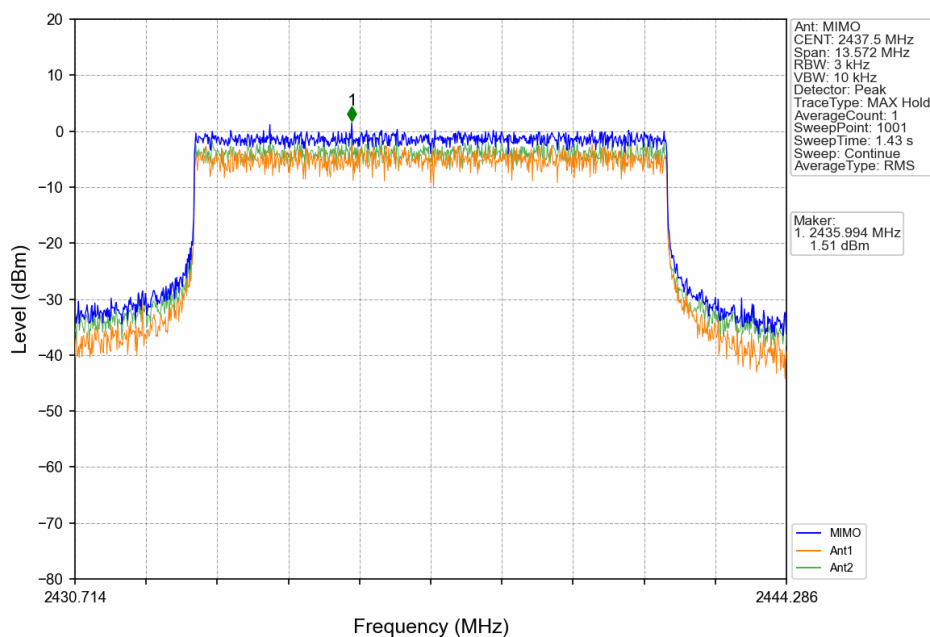
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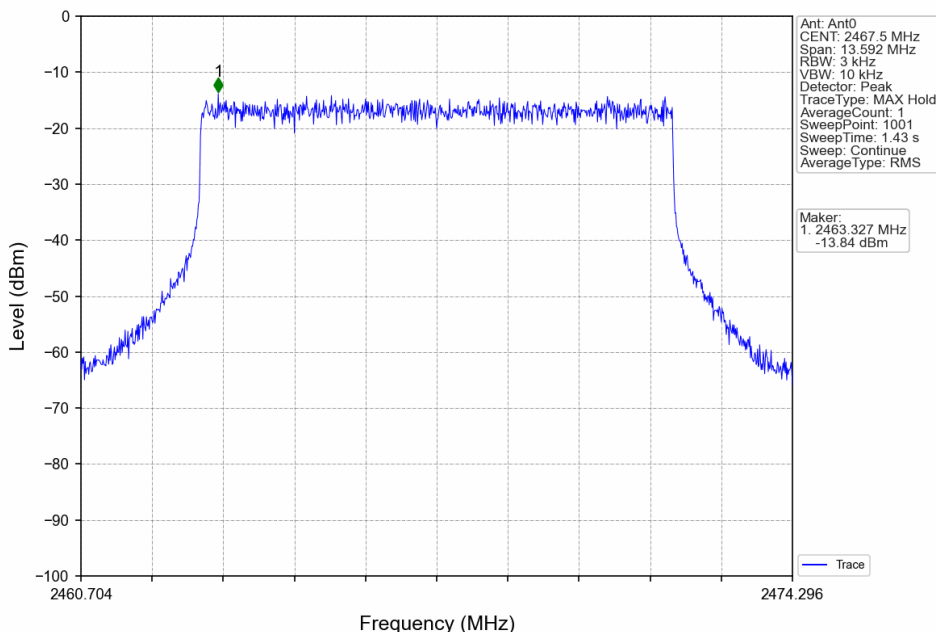
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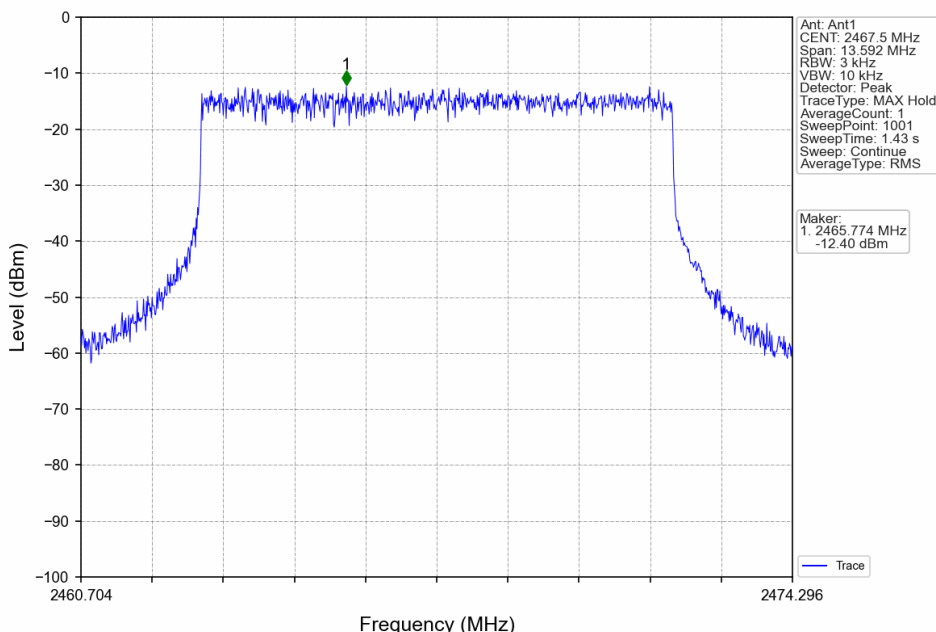
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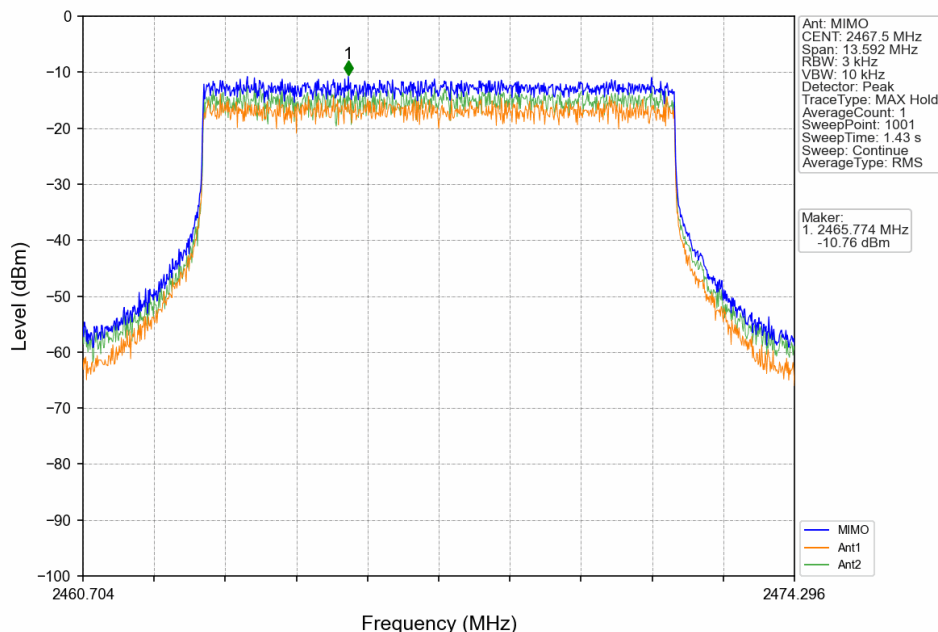
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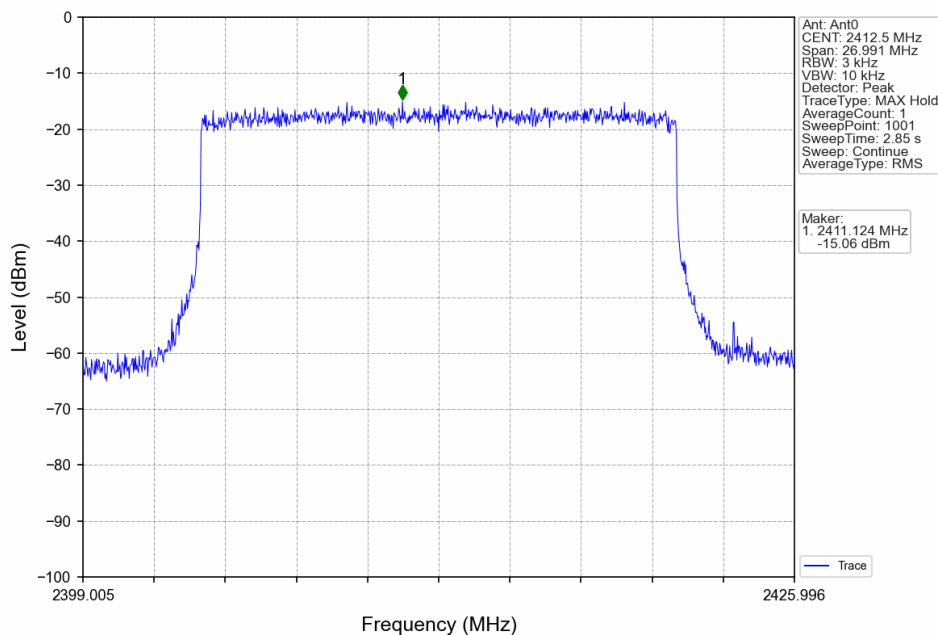
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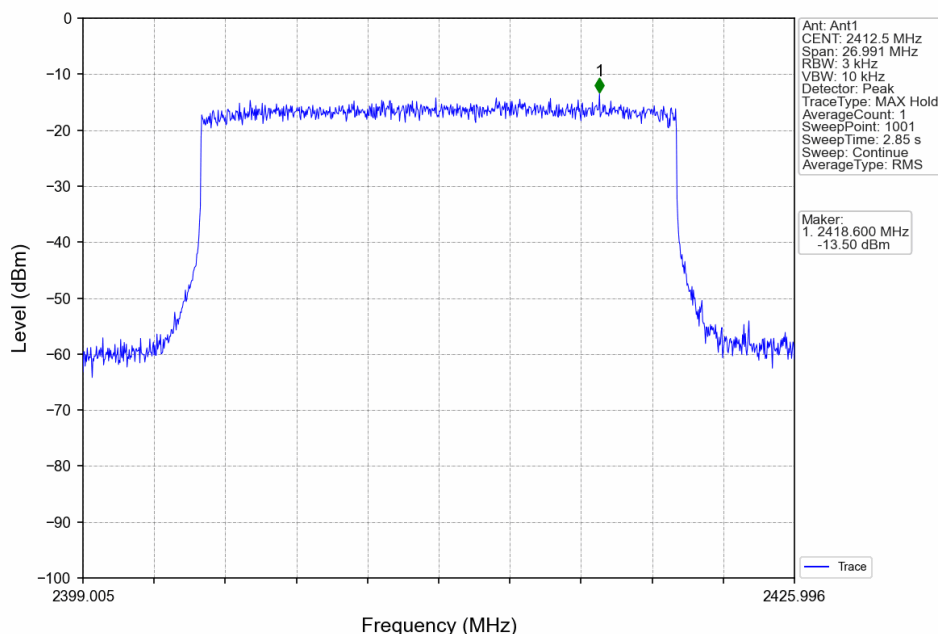
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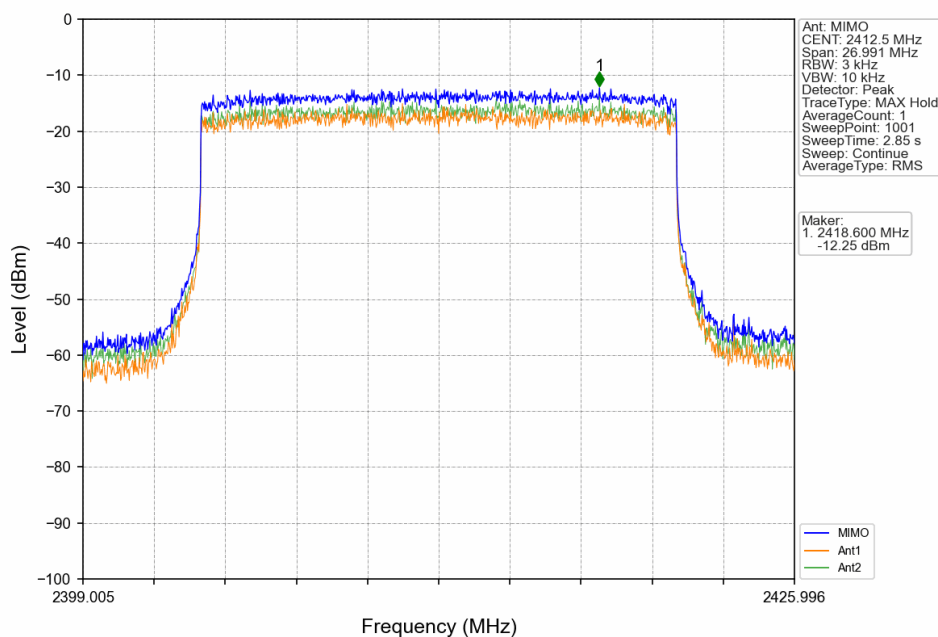
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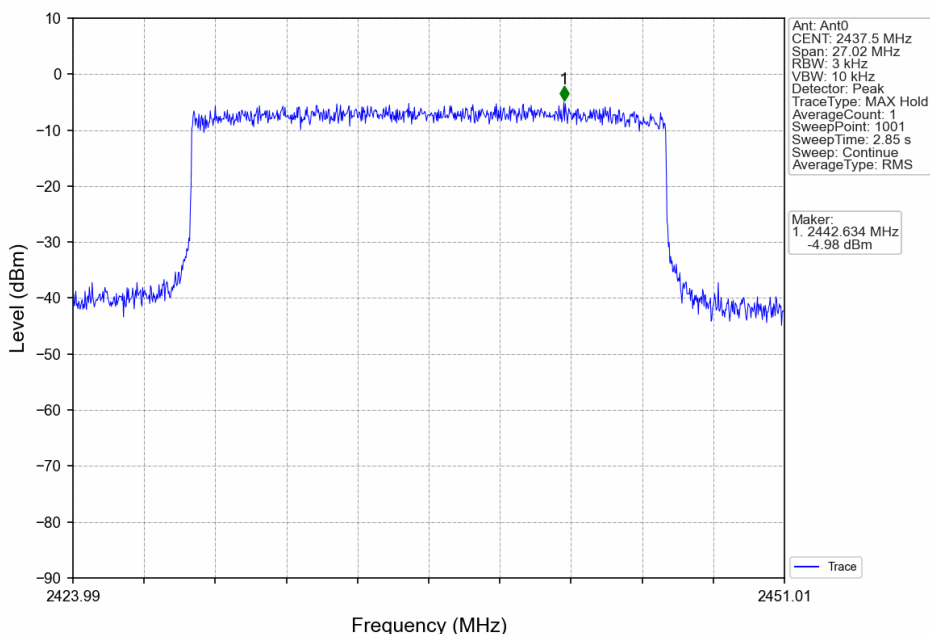
20M_LCH_2412.5MHz_Ant3_NTNV



20M_LCH_2412.5MHz_MIMO_NTNV



20M_MCH_2437.5MHz_Ant2_NTNV



20M_MCH_2437.5MHz_Ant3_NTNV

