

Chassis Dyno

Date and Time: 2025-01-21 10:01:40

Vehicle Model: r15

Driver Name: punya

Rider Weight: 79.0 kg

Department: 2WP/IN

Lab: BOSCH Ltd. Vehicle Test Lab

Name of the Cycle: WMTC_CLASS_3_2

Emission Analysis Output 3_2 CYCLE

Distances and Speeds for Each Phase

Parameter	Value
Distance in Phase 1 (km)	4.068349166666666
Distance in Phase 2 (km)	9.120033333333334
Distance in Phase 3 (km)	15.723715286944442
Total Distance in Phases(km)	28.912097786944443
Mean Speed for Phase 1 (km/h)	24.410095
Mean Speed for Phase 2 (km/h)	54.720200000000006
Mean Speed for Phase 3 (km/h)	94.34229172166665

Emissions per kilometer

Parameter	Value
PHASE 1:Emissions Per Kilometer for each Parameter	THC.TailPipe.mass 0.096670 NOX.TailPipe.mass 0.026087 CO2.TailPipe.mass 93.426564 CO.TailPipe.mass 0.398101 dtype: float64
PHASE 2:Emissions Per kilometer for each Parameter	THC.TailPipe.mass 0.005858 NOX.TailPipe.mass 0.012373 CO2.TailPipe.mass 68.148290 CO.TailPipe.mass 0.138644 dtype: float64
PHASE 3:Emissions Per kilometer for each Parameter	THC.TailPipe.mass 0.019804 NOX.TailPipe.mass 0.081556 CO2.TailPipe.mass 95.027405 CO.TailPipe.mass 0.727399 dtype: float64

total_weighted_emissions_per_km

Parameter	Value
Parameter	Weighted Emission per km
THC	0.032047823152255385
NOX	0.03309727610731937
CO2	81.18763696088591
CO	0.35069698210434497

Efficiency values

Parameter	Value
Efficiency values for Phase 1	CO.Cateff.mass 85.180122 THC.Cateff.mass 85.819338 NOX.Cateff.mass 90.272740 COH.Cateff.mass 86.238286 CO2.Cateff.mass 0.810200 dtype: float64
Efficiency values for Phase 2	CO.Cateff.mass 93.426528 THC.Cateff.mass 98.496790 NOX.Cateff.mass 96.139407 COH.Cateff.mass 94.683919 CO2.Cateff.mass 0.731209 dtype: float64
Efficiency values for Phase 3	CO.Cateff.mass 80.078029 THC.Cateff.mass 95.857774 NOX.Cateff.mass 95.618378 COH.Cateff.mass 82.029501 CO2.Cateff.mass 0.265820 dtype: float64

Total Efficiency for all Phases

Parameter	Value
Total Efficiency	CO.Cateff.mass 86.228226 THC.Cateff.mass 93.391301 NOX.Cateff.mass 94.010175 COH.Cateff.mass 87.650569 CO2.Cateff.mass 0.602410 dtype: float64

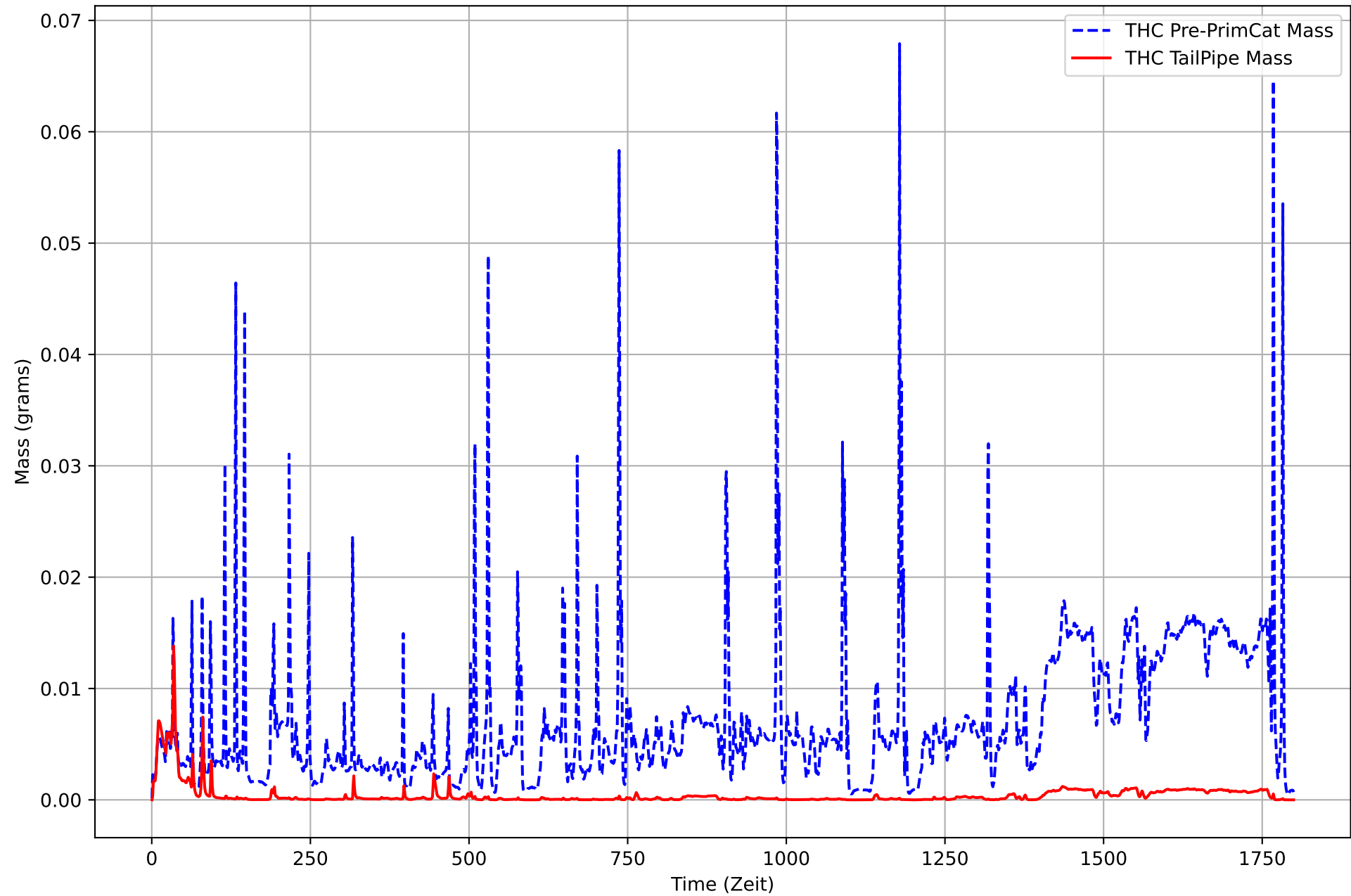
statistical measures for Cell Temperature

Parameter	Value
Mean temperature	22.388971166666664
Standard deviation	0.14611236113124532
Minimum temperature	22.1361
Maximum temperature	22.6092
Variance	0.021348822075347447

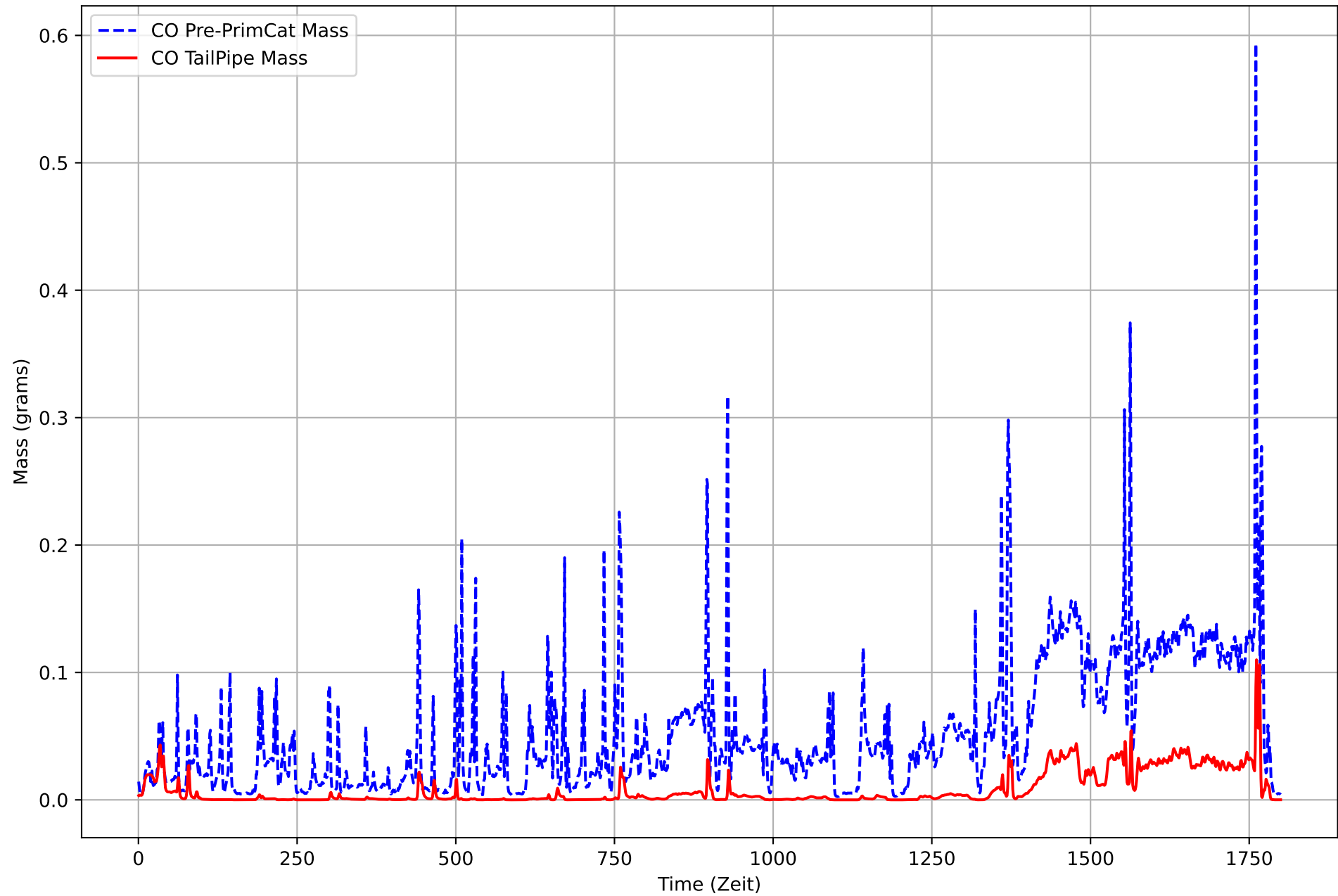
statistical measures for Relative Humidity

Parameter	Value
Mean relative humidity	51.74347555555555
Standard deviation	0.8374204288631187
Minimum relative humidity	49.8514
Maximum relative humidity	53.2127
Variance	0.7012729746772897

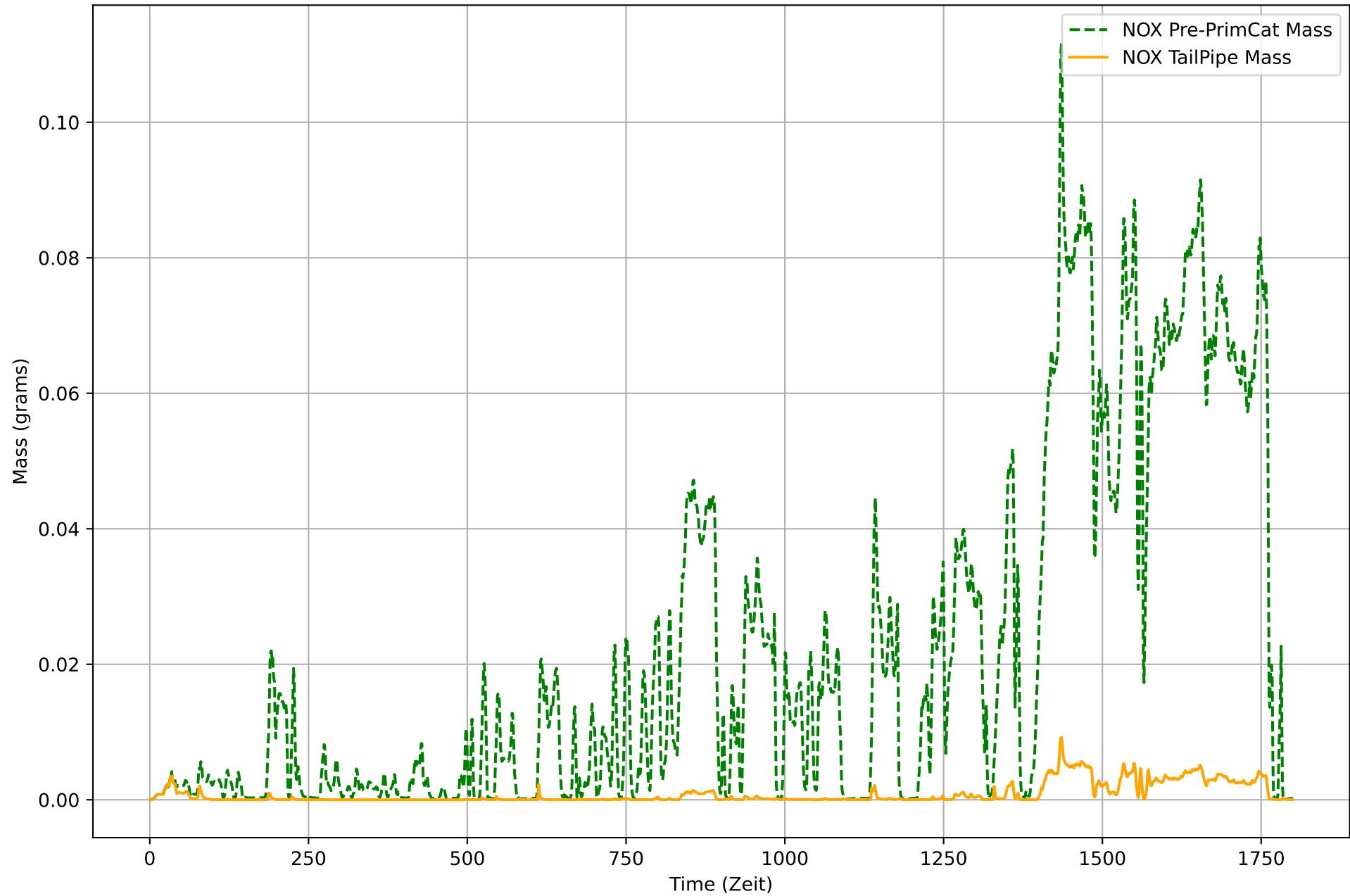
THC Pre-PrimCat and TailPipe Mass vs Time



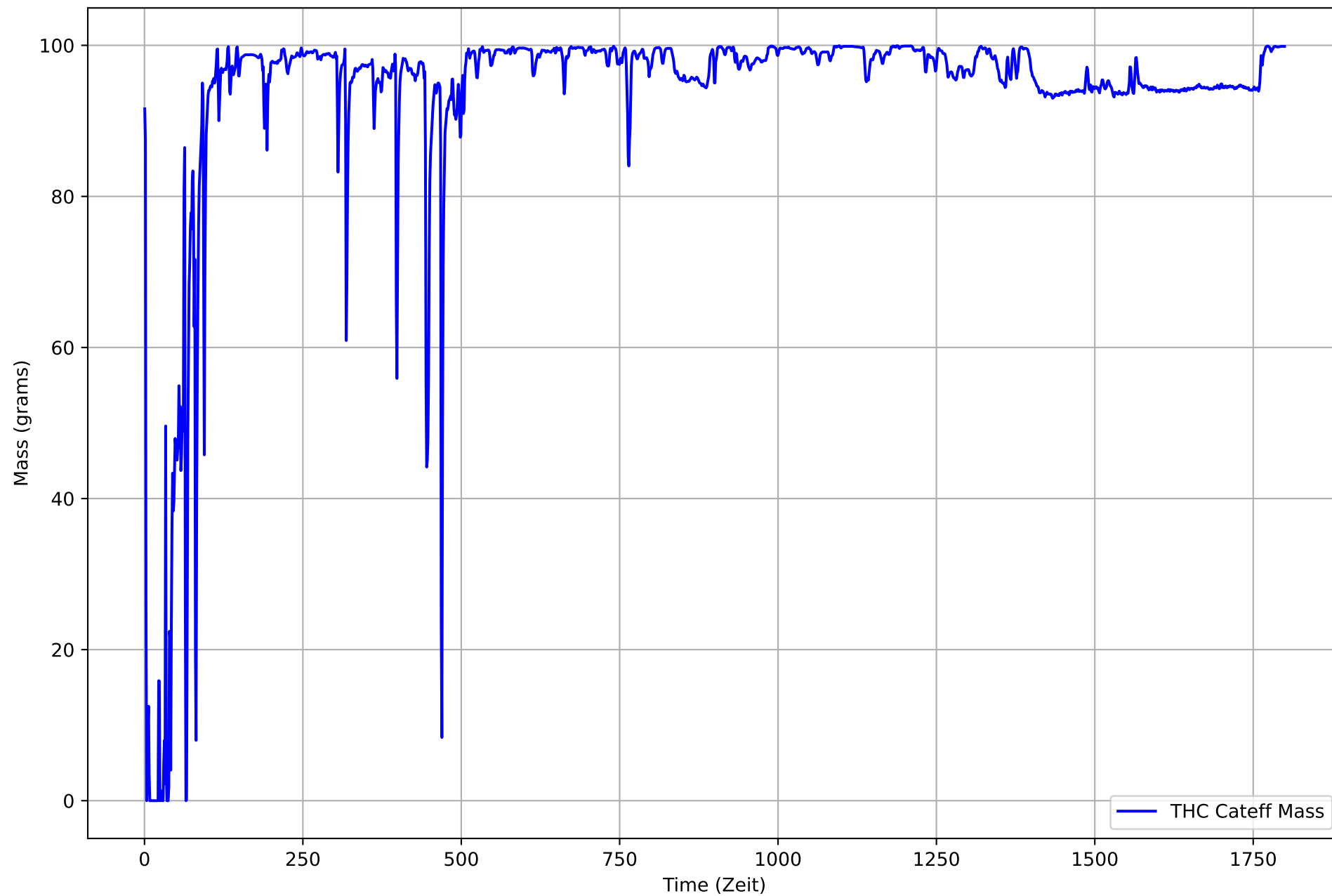
CO Pre-PrimCat and TailPipe Mass vs Time



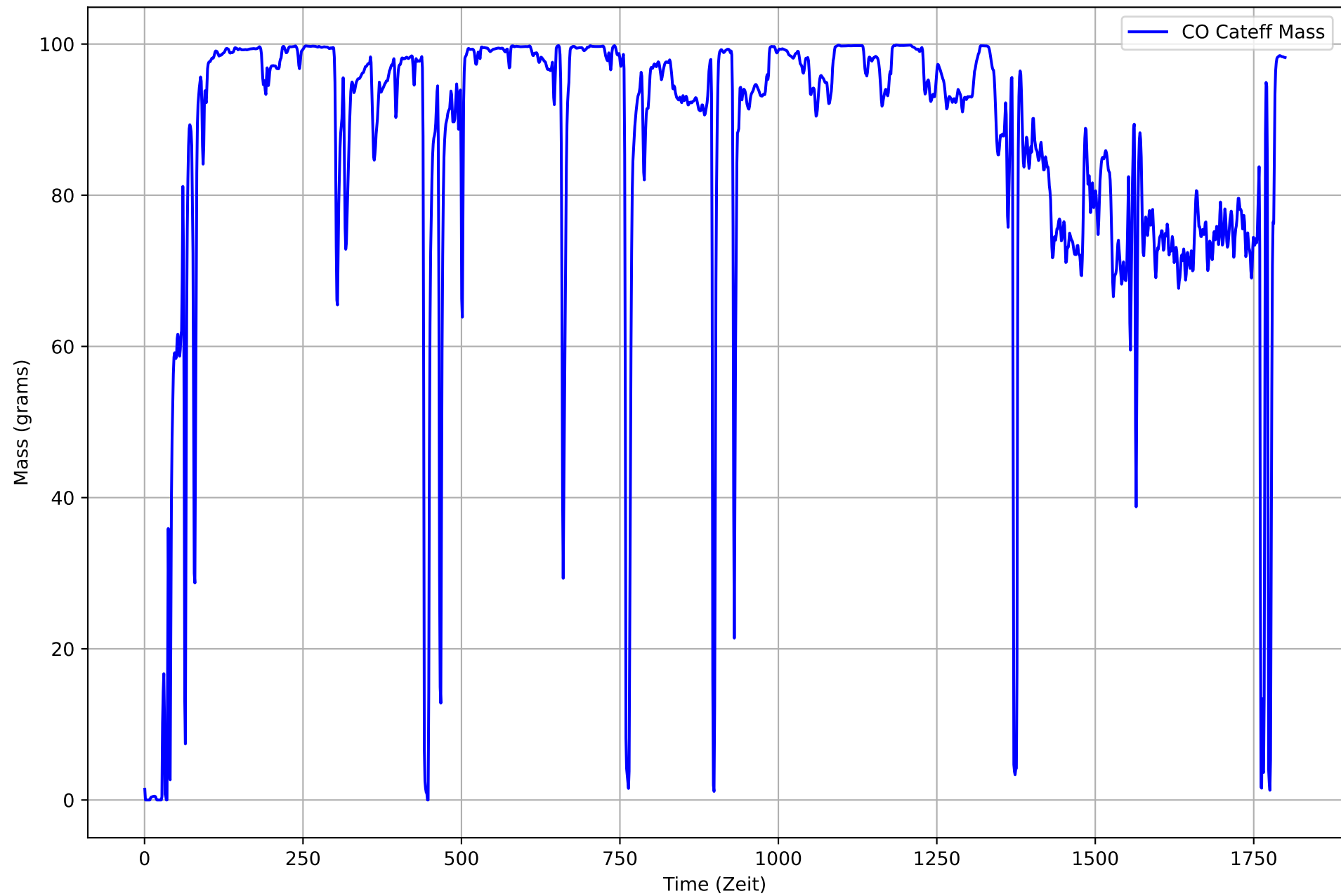
NOX Pre-PrimCat and TailPipe Mass vs Time



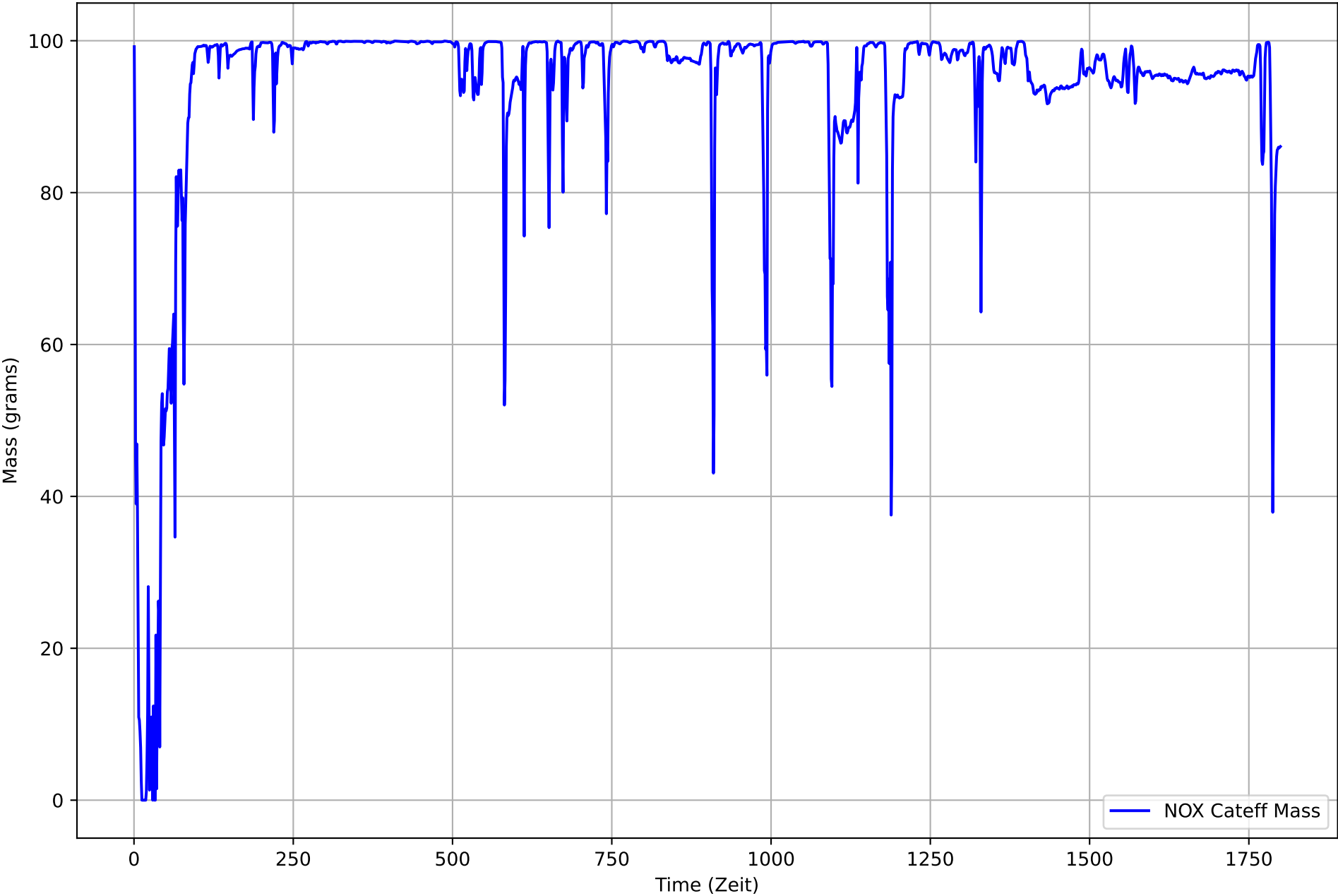
THC Cateff Mass vs Time



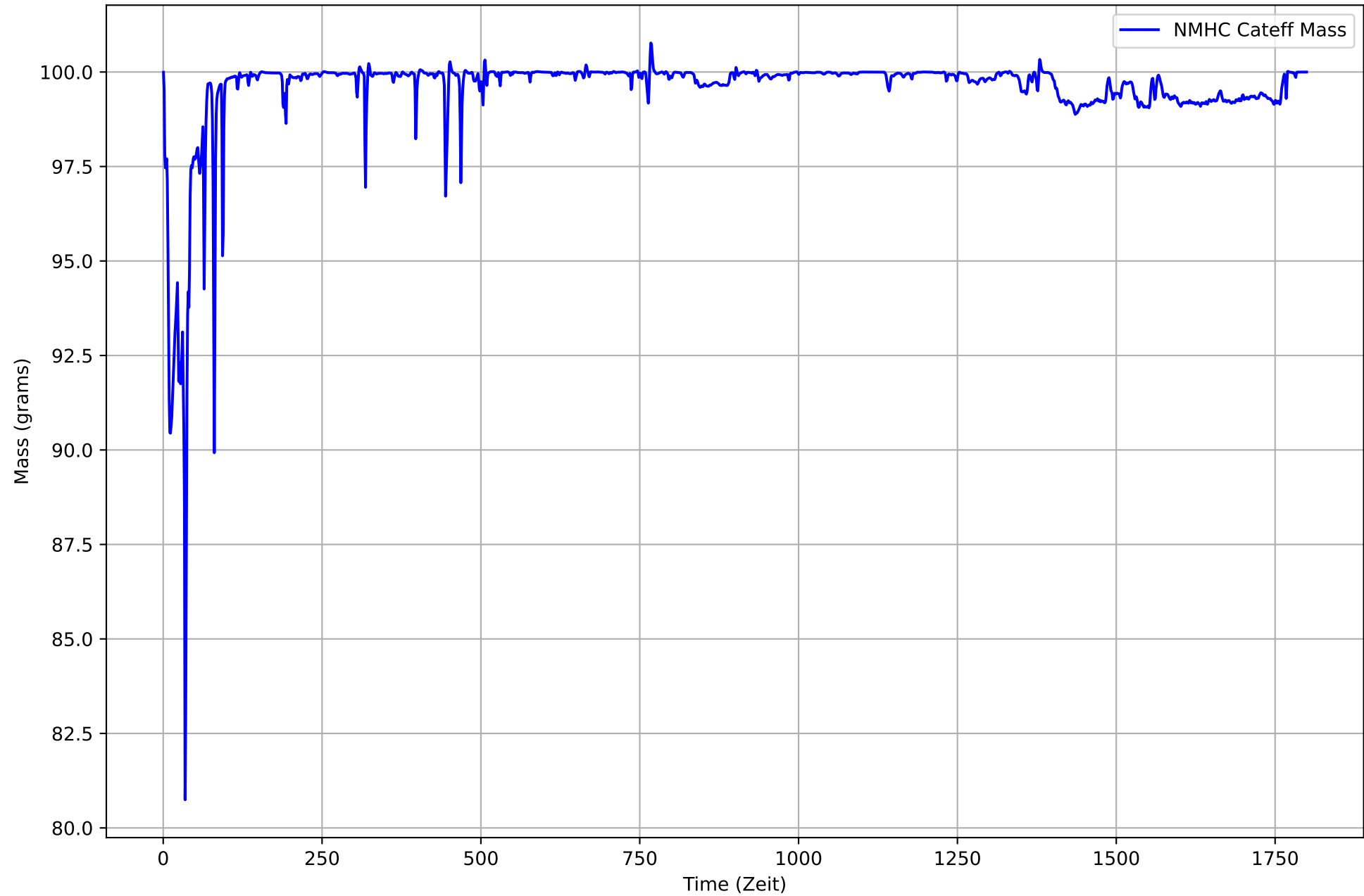
CO Cateff Mass vs Time



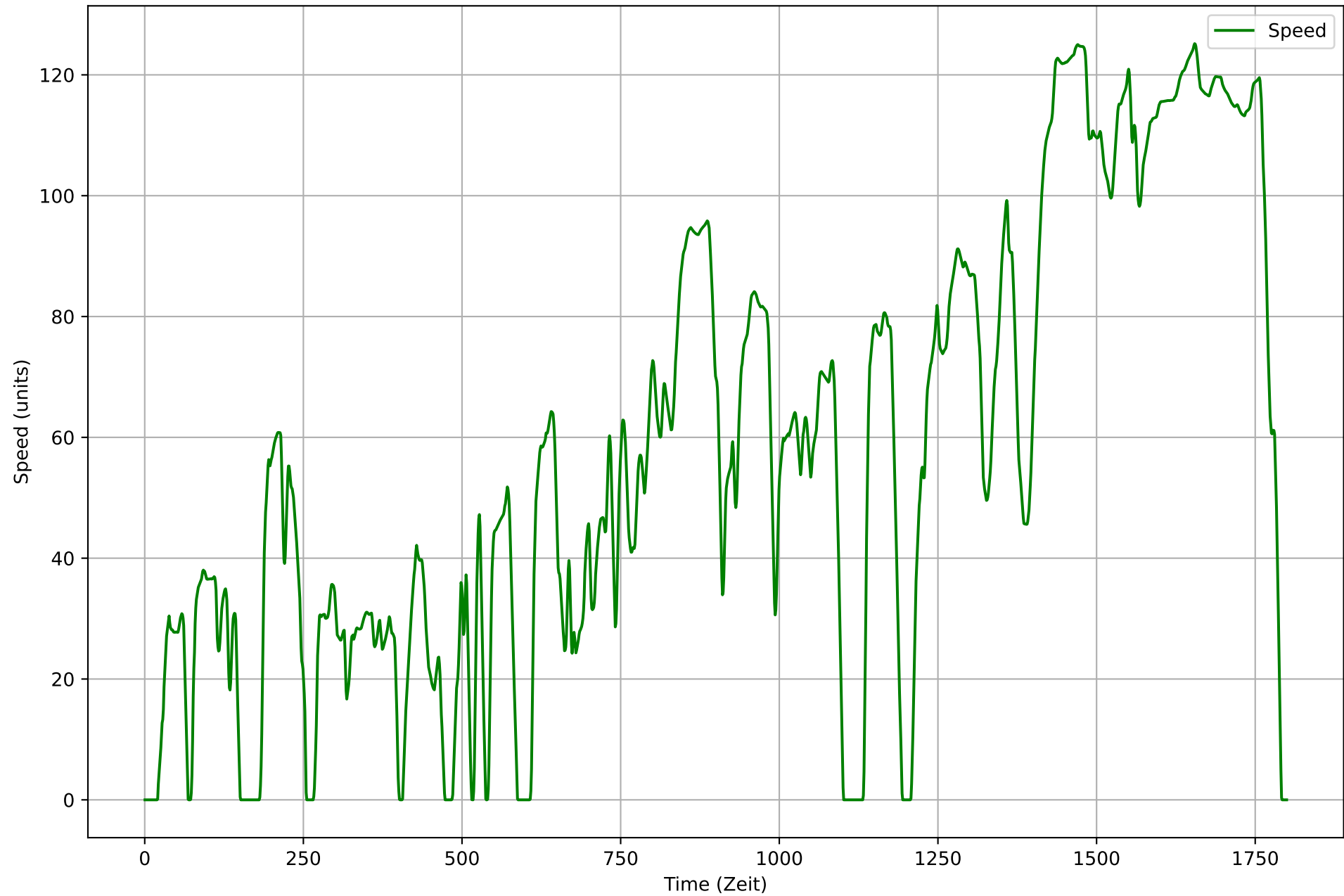
NOX Cateff Mass vs Time



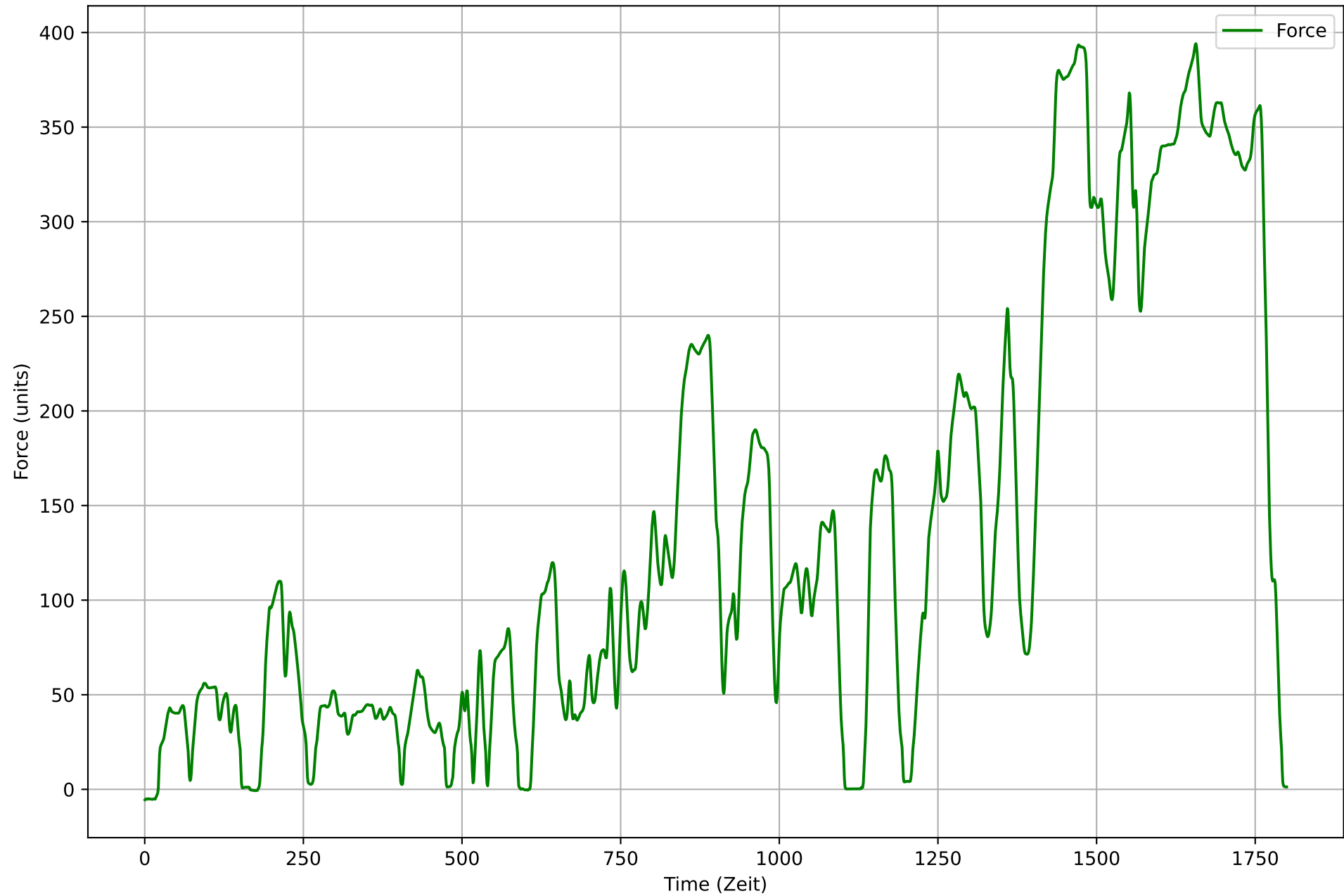
Efficiency_NMHC vs Time



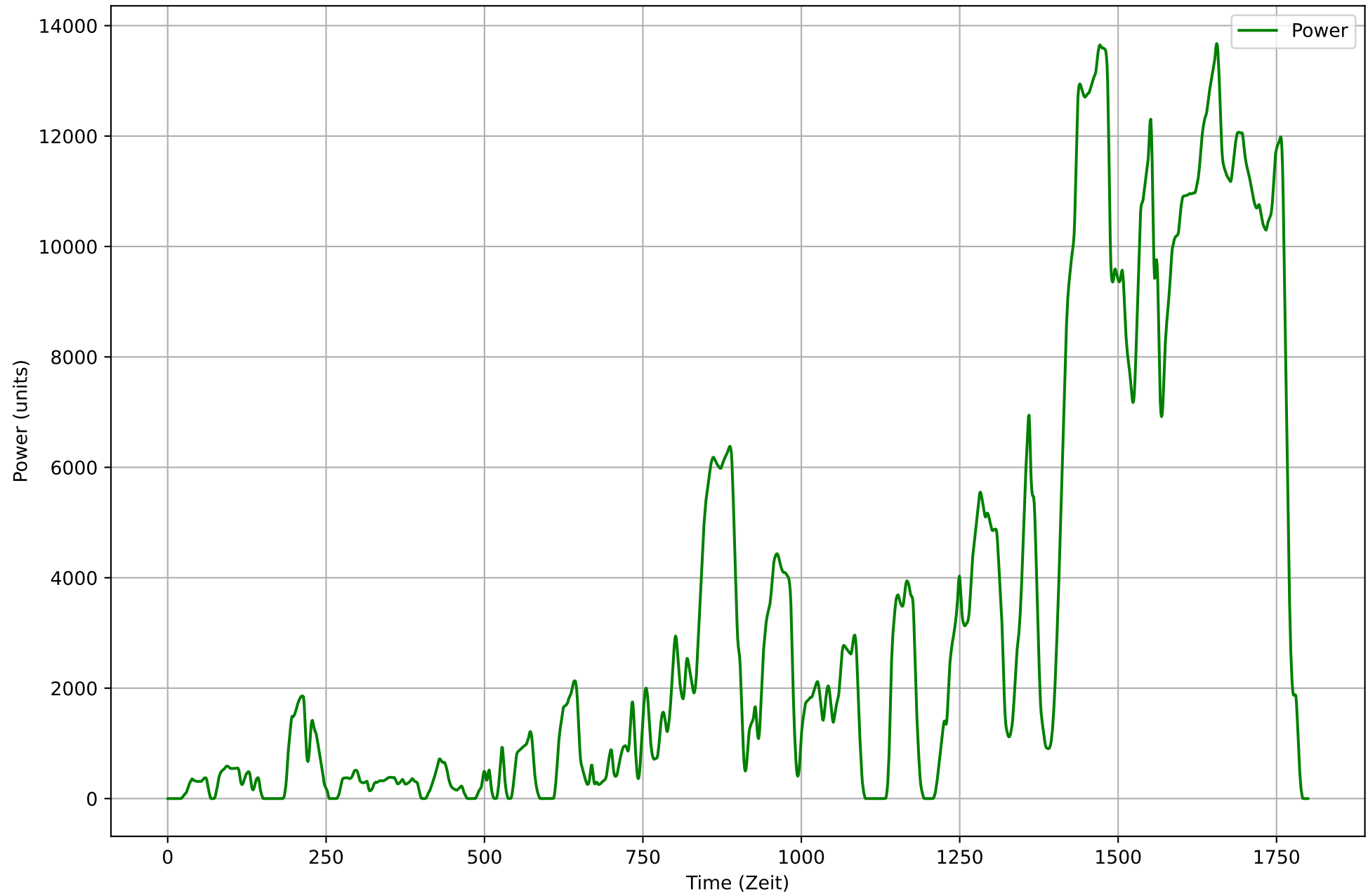
Speed vs Time



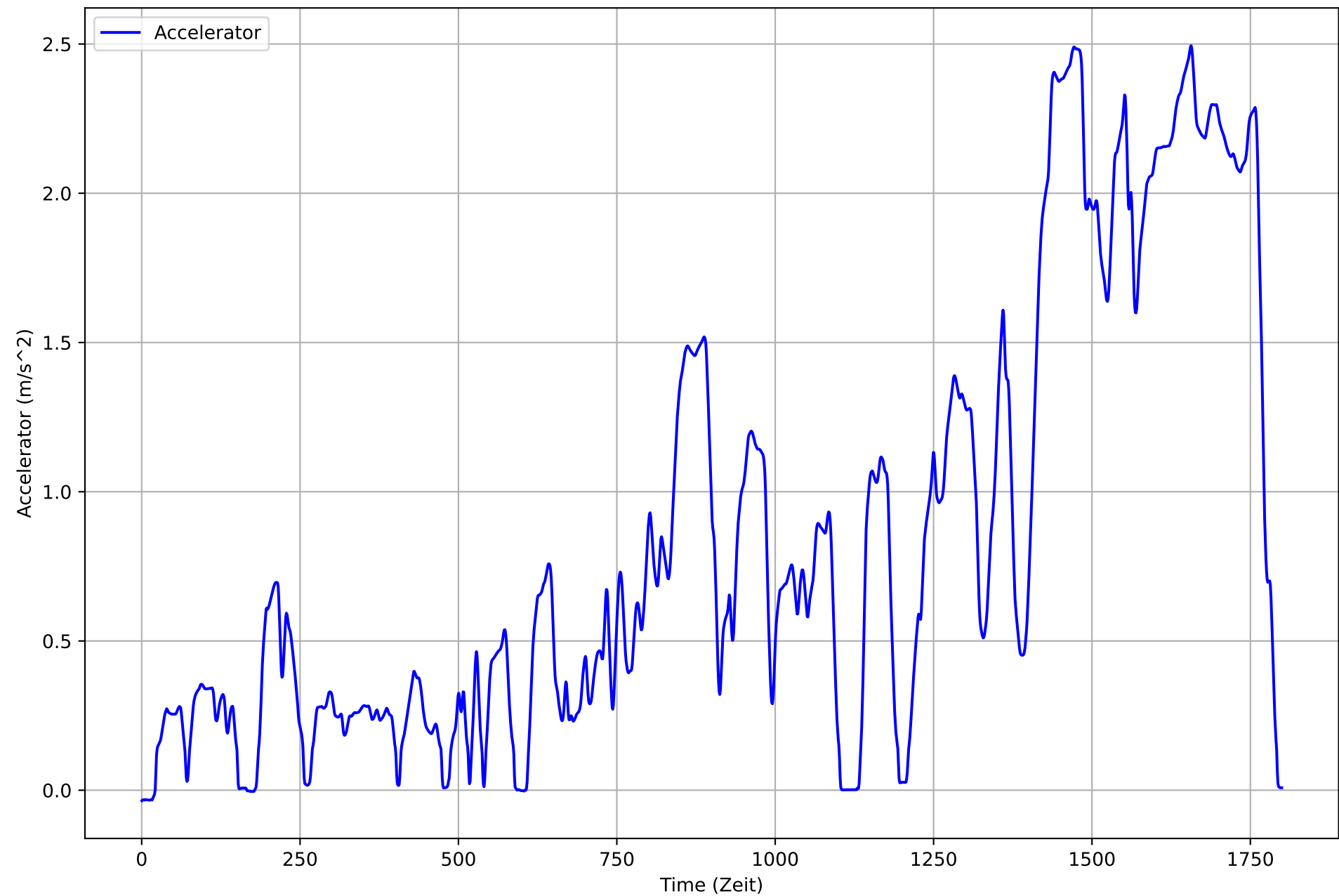
Force vs Time



Power vs Time



Accelerator vs Time



Angular Accelerator vs Time

