

Volkswagen 2019CY PEMS Report

Volkswagen Group of America
3800 Hamlin Rd
Auburn Hills, MI 48326

February 03, 2020

Background

The Volkswagen Group (VW), with its headquarters in Wolfsburg, Germany, is a large automobile manufacturer that comprises 12 brands from seven European countries: Volkswagen Passenger Cars, Audi, SEAT, ŠKODA, Bentley, Bugatti, Lamborghini, Porsche, Ducati, Volkswagen Commercial Vehicles, Scania, and MAN.

The Third Partial Consent Decree requires Volkswagen AG, Audi AG, and VWGoA to retain an independent third-party to conduct portable emissions measurement systems (PEMS) testing of Model Year (MY) 2017, 2018, and 2019 vehicles. This test program requires PEMS measurement of regulated criteria air pollutants and CO₂ under certain conditions as set forth in the Third Partial Consent Decree. The MY 2017 and 2018 reports were prepared previously and they are available online. This report includes the test results of the MY 2019 vehicles in the U.S. Market.

Approach

The test plan was approved by the U.S. EPA and carried out by a third-party, the University of California, Riverside (UCR). For 2019, the plan includes emissions testing of ten vehicles on public roads, over a range of conditions, utilizing PEMS. Emissions measured and reported include oxides of nitrogen (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), and total hydrocarbons (THC). All vehicles were tested, configured, and operated by UCR and were independent of VW operations. Measurement quality control checks were performed with calibrated / certified gases before and after PEMS testing so the data provided in this report is valid and representative. The following three on-road cycles (City, Highway, and Mountain) were performed in the Los Angeles, CA area.

Results

The MY 2019 vehicles were tested between July 18, 2019 and December 6, 2019, and all vehicles were tested within the timeframe upon which VW and EPA mutually agreed. The results are presented in the following tables. All vehicles were tested while fueled with commercially available E10 gasoline. Table 1 shows the vehicles tested, Table 2 lists the summary on-road emission results, and Tables 3, 4, and 5 list the route summary statistics.

Table 1. Summary of vehicles tested for model year 2019 organized by test order (first to last) ¹

Test Group	Vehicle Model	Manufacturer	VIN	Emission Class	Type of drive	Nominal power [HP]	Nominal torque [Nm]	Transmission	Exhaust gas treatment	Type of fuel	Start Mileage [mi]
KVGAJ03.0NAM	Q8 3.0 L	Audi		BIN125 LDV/ULEV125	AWD	335	500	Automatic	TWC	Gasoline	1578
KVGAT03.6VAS	Atlas_3.6L	VW		T3B70/ULEV70	AWD	276	266	Automatic	TWC	Gasoline	12034
KVGAV01.4V1P	Jetta 1.4L	VW		T3B30/SULEV30	AWD	147	249	Automatic	TWC	Gasoline	1616
JVGAV05.2NBE	R8 5.2L	Audi		BIN160 LDV/LEV160 PC	AWD	612	580	Automatic	TWC	Gasoline	1336
KVGAJ03.0N7F	SQ5 3.0L	Audi		BIN170 LDV/ULEV70PC	AWD	349	580	Automatic	TWC	Gasoline	4675
KVGAJ03.0N7N	A6 3.0L	Audi		BIN70 LDV/ULEV70PC	AWD	335	580	Automatic	TWC	Gasoline	9701
KVGAV02.0A7C	A4 2.0L	Audi		BIN70 LDV/ULEV70PC	AWD	248	370	Automatic	TWC	Gasoline	1785
KVGAV02.0AAB	Arteon 2.0L	VW		T3B125 LDV/ULEV125PC	AWD	268	350	Automatic	TWC	Gasoline	3743
KVGAV02.0A7M	A6 2.0L	Audi		BIN70 LDV/ULEV70PC	AWD	248	370	Automatic	TWC	Gasoline	1503
KVGAV04.0NAT	A8 4.0L	Audi		BIN125 LDV/ULEV125	AWD	450	602	Automatic	TWC	Gasoline	2452

 Table 2. Summary of emission results for the on-road routes ^{2,3}

Test Group	Vehicle Model	Emission Class	City g/mi					Highway g/mi					Mountain g/mi				
			CO ₂	THC	CO	NO _x	NMOG	CO ₂	THC	CO	NO _x	NMOG	CO ₂	THC	CO	NO _x	NMOG
KVGAJ03.0NAM	Q8 3.0 L	BIN125 LDV/ULEV125	582.8	0.0006	0.1367	0.0137	0.0004	391.1	0.0002	0.3096	0.0067	0.0002	449.5	0.0030	0.2647	0.0117	0.0030
KVGAT03.6VAS	Atlas_3.6L	T3B70/ULEV70	480.8	0.0015	-0.0300	0.0208	0.0015	388.4	0.0028	0.0621	0.0081	0.0029	434.6	0.0075	0.2091	0.0127	0.0076
KVGAV01.4V1P	Jetta 1.4L	T3B30/SULEV30	368.9	0.0014	0.0433	0.0192	0.0014	215.5	0.0009	0.2333	0.0085	0.0009	236.2	0.0013	0.1435	0.0115	0.0013
JVGAV05.2NBE	R8 5.2L	BIN160 LDV/LEV160 PC	546.1	0.0073	0.0153	0.0119	0.0074	463.2	0.0374	0.0574	0.0288	0.0381	476.0	0.0327	0.1546	0.0149	0.0333
KVGAJ03.0N7F	SQ5 3.0L	BIN170 LDV/ULEV70PC	449.4	0.0002	0.2763	0.0123	0.0002	363.5	0.0012	0.3186	0.0059	0.0012	389.1	0.0027	0.2491	0.0078	0.0027
KVGAJ03.0N7N	A6 3.0L	BIN70 LDV/ULEV70PC	553.1	0.0012	0.0096	0.0112	0.0012	275.7	0.0010	0.0794	0.0039	0.0010	361.3	0.0028	0.0784	0.0133	0.0029
KVGAV02.0A7C	A4 2.0L	BIN70 LDV/ULEV70PC	460.3	0.0005	0.0187	0.0200	0.0005	256.3	0.0190	0.1654	0.0084	0.0193	296.5	0.0221	0.1869	0.0095	0.0225
KVGAV02.0AAB	Arteon 2.0L	T3B125 LDV/ULEV125PC	575.1	0.0017	0.0896	0.0442	0.0017	273.6	0.0073	0.1248	0.0034	0.0074	339.5	0.0123	0.2289	0.0171	0.0125
KVGAV02.0A7M	A6 2.0L	BIN70 LDV/ULEV70PC	487.9	0.0066	0.0252	0.0508	0.0067	325.6	0.0046	0.1017	0.0118	0.0047	383.9	0.0064	0.0853	0.0243	0.0065
KVGAV04.0NAT	A8 4.0L	BIN125 LDV/ULEV125	766.0	0.0008	0.0514	0.0305	0.0008	320.1	-0.0002	0.0781	0.0044	-0.0002	446.9	-0.0008	0.1695	0.0037	-0.0008

¹ The R8 tested during this 2019 calendar year was a MY 2018 vehicle.

² NMOG was calculated using the formula $NMOG = 1.1 * NMHC$ (g/mi). NMHC was calculated as per 40 CFR Part 1065.660 (b)(1), using the formula $NMHC = 0.98 * THC$, where THC is in concentration (ppm).

³ Negative values are not representative of less than zero emission values but may be a result of instrument zero drift that occurred during in-use testing.

Table 3. Summary trip statistics for the city route

Test Group	Vehicle Model	Trip Duration [mm:ss]	Distance [mi]	Average speed [mph]	Maximum speed [mph]	v*a (95th percentile) [m ² /s ³]	RPA [m/s ²]	Standstill proportion [%]	Constant proportion [%]	Acceleration proportion [%]	Deceleration proportion [%]	Road Gradient (95th percentile) [%]	Cumulative positive Altitude [m]	Altitude difference [m]	Average Amb Temperature [F]
KVGAI03.0NAM	Q8 3.0 L	60:37	15.6	15.7	64.6	10.0	0.17	30%	5%	33%	33%	2.7	143	9	73.9
KVGAT03.6VAS	Atlas 3.6L	51:54	16.4	19.4	65.2	10.4	0.18	17%	7%	38%	38%	2.4	143	8	75.8
KVGAV01.4V1P	Jetta 1.4L	75:11	16.3	13.0	52.8	9.7	0.19	34%	3%	32%	30%	2.7	175	-3	77.7
JVGAV05.2NBE	R8 5.2L	50:31	16.1	19.5	66.5	10.8	0.18	20%	7%	38%	36%	2.6	132	3	69.8
KVGAI03.0N7F	SQ5 3.0L	52:55	16.1	18.6	60.3	10.8	0.18	25%	6%	35%	34%	2.5	157	6	70.3
KVGAI03.0N7N	A6 3.0L	84:46	15.8	11.3	51.0	10.0	0.20	36%	2%	31%	30%	2.8	171	1	73.6
KVGAV02.0A7C	A4 2.0L	74:43	16.0	13.1	60.3	9.7	0.20	37%	2%	33%	29%	2.5	175	4	77.3
KVGAV02.0AAB	Arteon 2.0L	65:31	16.1	15.0	57.8	10.8	0.20	21%	4%	34%	33%	3.0	168	6	90.0
KVGAV02.0A7M	A6 2.0L	58:46	15.8	16.4	67.1	15.3	0.25	20%	5%	35%	35%	2.6	156	2	75.6
KVGAV04.0NAT	A8 4.0L	77:17	16.1	12.5	51.2	8.6	0.18	33%	4%	32%	31%	2.7	168	-4	65.4

Table 4. Summary trip statistics for the highway route

Test Group	Vehicle Model	Trip Duration [mm:ss]	Distance [mi]	Average speed [mph]	Maximum speed [mph]	v*a (95th percentile) [m ² /s ³]	RPA [m/s ²]	Standstill proportion [%]	Constant proportion [%]	Acceleration proportion [%]	Deceleration proportion [%]	Road Gradient (95th percentile) [%]	Cumulative positive Altitude [m]	Altitude difference [m]	Average Amb Temperature [F]
KVGAI03.0NAM	Q8 3.0 L	45:08	37.6	49.9	72.7	12.0	0.09	5%	23%	37%	34%	2.8	194	-4	80.2
KVGAT03.6VAS	Atlas 3.6L	55:22	39.4	42.7	74.6	12.4	0.10	4%	18%	41%	37%	2.8	199	-5	87.9
KVGAV01.4V1P	Jetta 1.4L	40:15	39.1	58.3	80.2	15.3	0.08	4%	26%	35%	35%	2.7	191	-10	74.9
JVGAV05.2NBE	R8 5.2L	46:39	38.7	50.9	76.4	13.3	0.11	2%	20%	44%	34%	2.8	189	-14	76.8
KVGAI03.0N7F	SQ5 3.0L	42:18	38.6	54.8	80.8	14.2	0.10	3%	21%	39%	37%	2.6	185	-14	78.1
KVGAI03.0N7N	A6 3.0L	47:45	38.0	48.7	75.8	13.1	0.11	3%	18%	42%	37%	2.7	185	-29	74.8
KVGAV02.0A7C	A4 2.0L	39:49	38.3	59.2	76.4	12.8	0.08	2%	29%	36%	33%	2.8	185	-16	80.7
KVGAV02.0AAB	Arteon 2.0L	37:02	38.6	62.5	82.0	13.1	0.08	2%	27%	38%	35%	2.9	184	-10	77.5
KVGAV02.0A7M	A6 2.0L	45:51	37.9	50.7	80.2	19.1	0.11	2%	35%	33%	32%	2.8	198	-15	75.4
KVGAV04.0NAT	A8 4.0L	46:11	37.9	49.3	77.1	11.7	0.09	3%	24%	39%	37%	2.7	195	-16	57.8

Table 5. Summary trip statistics for the mountain route

Test Group	Vehicle Model	Trip Duration [mm:ss]	Distance [mi]	Average speed [mph]	Maximum speed [mph]	v*a (95th percentile) [m ² /s ³]	RPA [m/s ²]	Standstill proportion [%]	Constant proportion [%]	Acceleration proportion [%]	Deceleration proportion [%]	Road Gradient (95th percentile) [%]	Cumulative positive Altitude [m]	Altitude difference [m]	Average Amb Temperature [F]
KVGAI03.0NAM	Q8 3.0 L	54:46	28.0	31.2	62.8	11.5	0.14	12%	13%	41%	34%	11.3	816	0	82.2
KVGAT03.6VAS	Atlas 3.6L	57:38	29.4	31.1	69.0	12.5	0.14	11%	12%	41%	36%	10.4	804	3	85.9
KVGAV01.4V1P	Jetta 1.4L	46:55	29.0	38.0	72.7	13.5	0.13	4%	16%	41%	39%	10.6	791	-2	79.2
JVGAV05.2NBE	R8 5.2L	54:52	28.8	32.1	75.8	12.2	0.13	12%	16%	38%	35%	10.9	810	-2	81.5
KVGAI03.0N7F	SQ5 3.0L	49:47	28.8	35.4	74.6	14.1	0.14	10%	13%	42%	35%	10.7	808	2	83.0
KVGAI03.0N7N	A6 3.0L	61:30	28.2	28.0	69.0	13.2	0.14	21%	12%	36%	31%	10.6	823	1	81.1
KVGAV02.0A7C	A4 2.0L	51:16	28.5	33.3	71.5	12.2	0.13	11%	15%	40%	35%	10.0	812	-1	86.2
KVGAV02.0AAB	Arteon 2.0L	49:56	28.7	35.2	70.8	15.3	0.15	8%	22%	42%	37%	10.6	816	1	76.5
KVGAV02.0A7M	A6 2.0L	48:30	28.2	35.6	72.1	19.9	0.17	8%	18%	42%	40%	10.4	818	-1	79.1
KVGAV04.0NAT	A8 4.0L	60:08	28.4	28.4	67.7	11.1	0.14	20%	24%	40%	35%	10.6	832	1	54.9



Figure 1. On-road testing on California public roads

Summary

The emissions from the test vehicles was representative of typical in-use conditions for city, highway, and mountain driving. The conditions ranged from 55°F to 90°F, 0% to 11% grade, and from up to 2,400 feet from sea level. In summary, the emissions presented are representative of valid in-use testing.

Sincerely,

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Appendix A - Routes

The routes for the on-road testing included various geographies and climactic conditions, including stop-go city traffic, highway driving, and heavy grade/high elevation. The routes included a route in the LA downtown area, a highway route between Oxnard and Santa Barbara, CA, and a route in the Santa Barbara mountains. Table 1 provides the characteristics for the test routes, and the routes are shown geographically in Figure 1. These routes were approved by EPA as meeting their requirements for the Consent Decree PEMS testing. The routes are described in greater detail below.

Table 1. Description of test routes and key trip statistics

Route	Map Color Code	Accessibility (hrs)	Route Distance (mi)	Average Speed (mph)	Cum. Pos Elevation (ft)	95 th Percentile Grade %
1. LA - Downtown	Blue	9-14 or 20-24	16	16	521	2.7
2. Freeway cruise	Green	24hr	39	53	600	2.8
3. Mountain	Red	24hr	29	33	2667	10.6

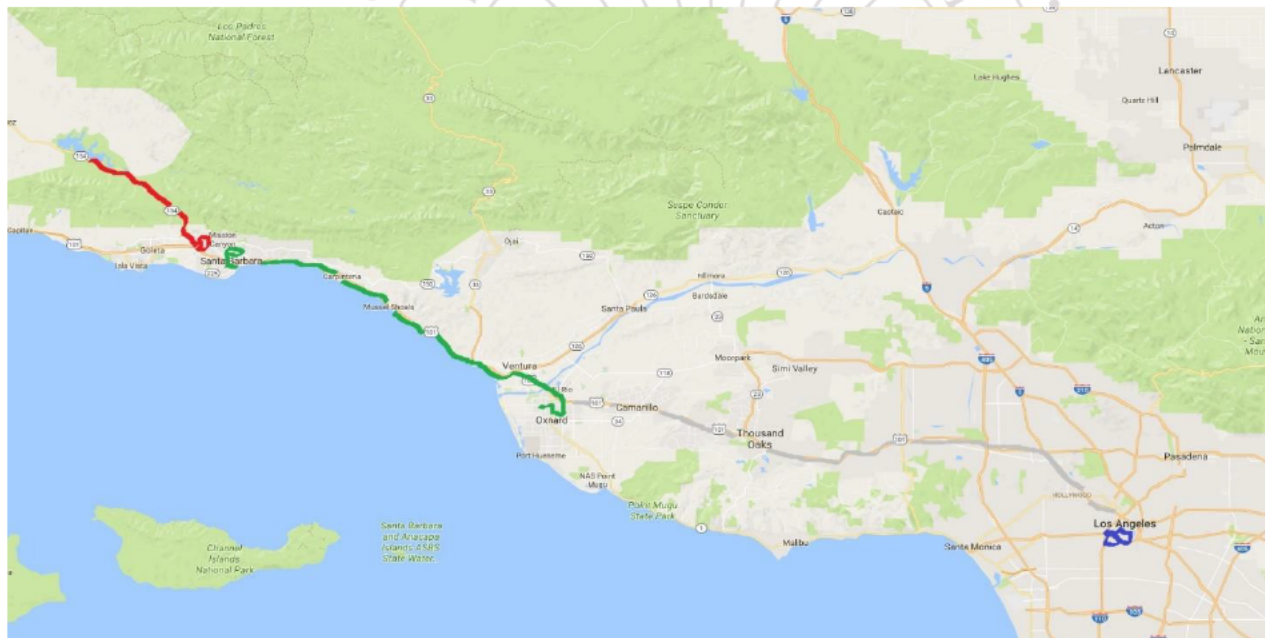


Figure 1. Overview of the three test routes

Figure 2 shows a map of the downtown LA area route, designated as Route 1, that is representative of urban driving in downtown Los Angeles. This route essentially represents the “*Los Angeles Route Four*” (i.e., LA4), which was ultimately used in developing the original FTP vehicle certification cycle, with some minor modifications at locations where the traffic pattern or roads have changed since development of the FTP. The average typical speed for this route is 17 mph, and a typical speed profile and elevation profile of this route is provided in Figure 3. The route is 16 miles long and starts and ends at University of Southern California (USC).

A map of the highway route, which is designated Route 2, is depicted in Figure 4. Route 2 is 39 miles in distance between Oxnard and Santa Barbara, CA. The typical average speed for this route is 47 mph, and a typical speed profile and elevation profile for this route is provided in Figure 5.

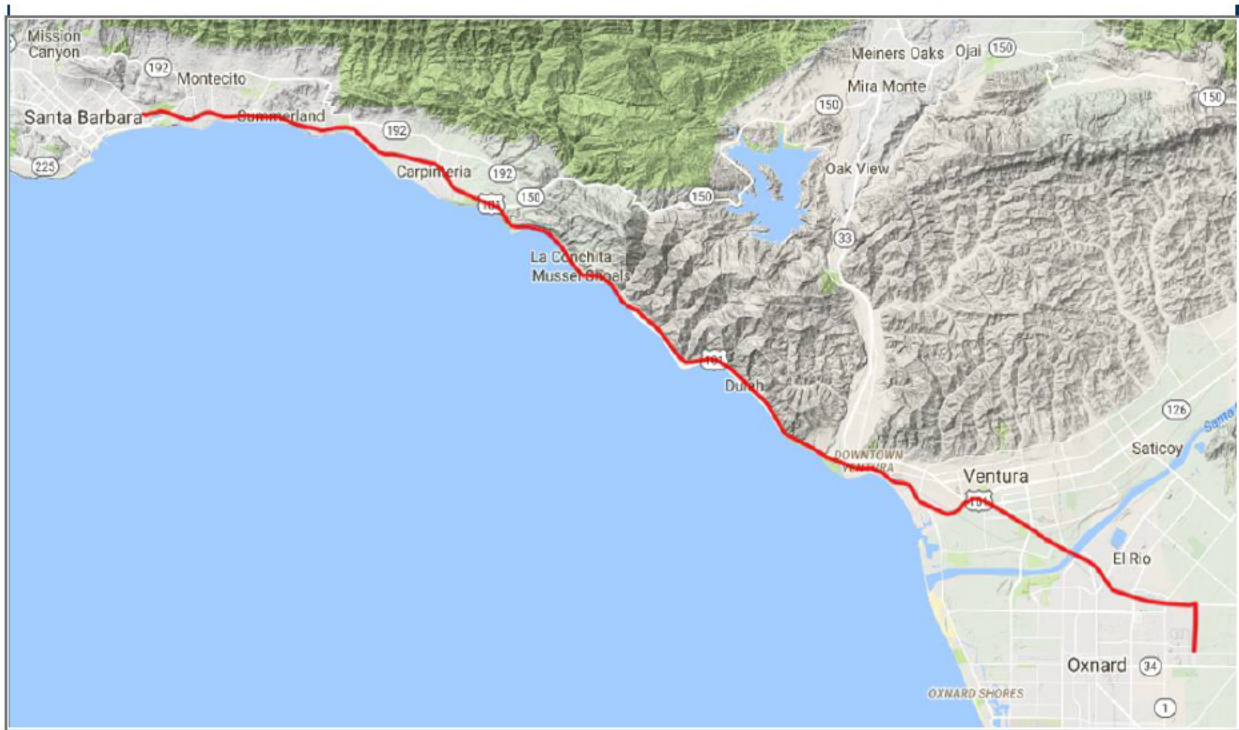


Figure 4. Topographic map of Route 2, highway driving between Oxnard and Santa Barbara

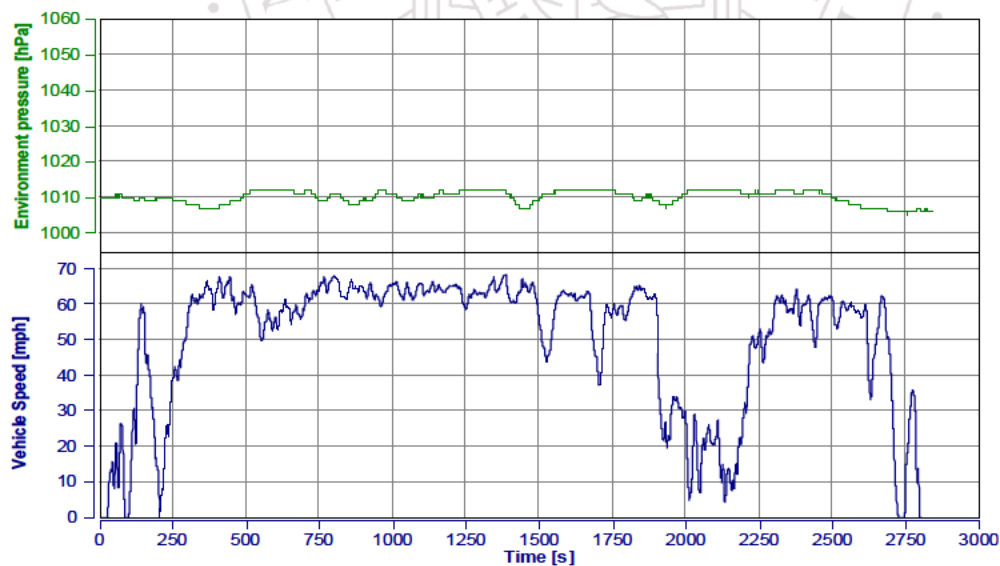


Figure 5. Speed and elevation profiles for Route 2, highway driving

A map of the uphill/downhill route, which is designated Route 3, is depicted in Figure 6. Route 3 is 29 miles in distance, with a majority of the miles in the Santa Barbara mountains. The typical average

speed for this route is 35 mph, and a typical speed profile and elevation profile for this route is provided in Figure 7. The route goes to a maximum elevation of 2,400 feet.

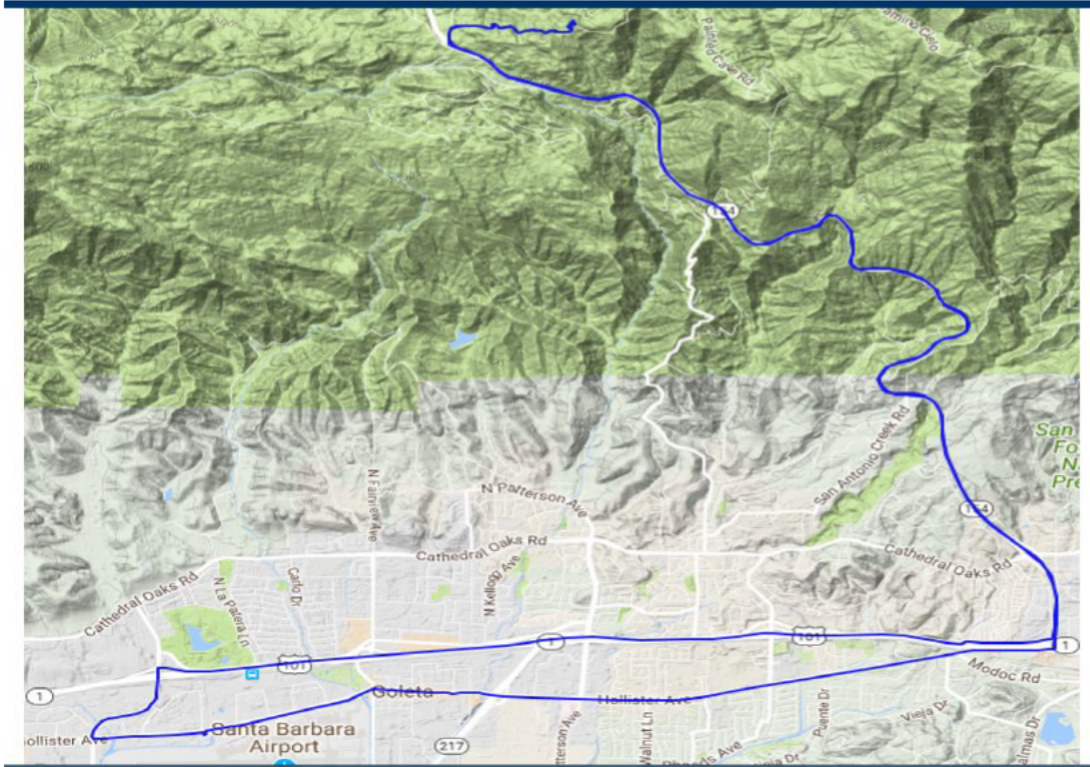


Figure 6. Topographic map of Route 3, uphill/downhill driving in the Santa Barbara Mountains

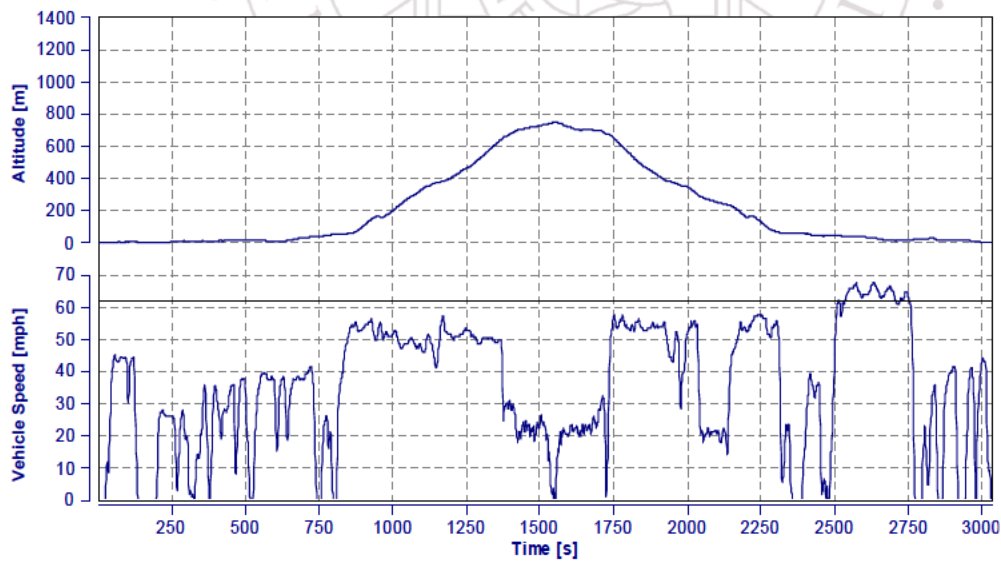


Figure 7. Speed and elevation profiles for Route 3, uphill/downhill driving

Appendix B - Detailed Test Data

Case: City
Page: Trip Summary

'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



Concerto M.O.V.E., 2018

Trip Duration	3577.00	s	ave THC	0.33997	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3577.00	s	ave NMHC	0.31858	ppm	BS CO	n/a	g/hphr
Trip Distance	15.63	mi	ave CH4	0.02139	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	15.63	mi	ave CO	19.05514	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	11.71363	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	5.18817	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.03	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.99	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.07	gall	tot THC	0.01080	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.06	gall	tot NMHC	0.00824	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00230	g	DS CO2	585.79998	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	2.14829	g	DS CO	0.13746	g/mi
Trip Fuel Economy EU (ac)	14.59	mpg_US	tot CO2	9155.33614	g	DS THC	0.00069	g/mi
Trip Fuel Economy US (ac)	14.77	mpg_US	tot NO (d)	0.21272	g	DS NMHC	0.00053	g/mi
Trip Av. Eng. Speed	1127.51	rpm	tot NO2	-0.00728	g	DS CH4	0.00015	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.20544	g	DS NO (d)	0.01361	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	-0.00047	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01314	g/mi
Trip Exhaust Mass	49.21	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	73.87	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	65.37	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	15.73074	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	29.63377	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



Concerto M.O.V.E., 2018

Trip Duration	3577.00	s	ave THC DC	0.27354	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3577.00	s	ave NMHC DC	0.21114	ppm	BS CO DC	n/a	g/hphr
Trip Distance	15.63	mi	ave CH4 DC	0.06239	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	15.63	mi	ave CO DC	18.79459	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	11.65376	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	5.33387	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.03	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.99	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.07	gall	tot THC DC	0.00924	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.06	gall	tot NMHC DC	0.00575	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00349	g	DS CO2 DC	582.80611	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	2.13660	g	DS CO DC	0.13671	g/mi
Trip Fuel Economy EU (ac)	14.59	mpg_US	tot CO2 DC	9108.54567	g	DS THC DC	0.00059	g/mi
Trip Fuel Economy US (ac)	14.77	mpg_US	tot NO DC (d)	0.21547	g	DS NMHC DC	0.00037	g/mi
Trip Av. Eng. Speed	1127.51	rpm	tot NO2 DC	-0.00051	g	DS CH4 DC	0.00022	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.21495	g	DS NO DC (d)	0.01379	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	-0.00003	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.01375	g/mi
Trip Exhaust Mass	49.21	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	73.87	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	65.37	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	15.73074	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	29.63377	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

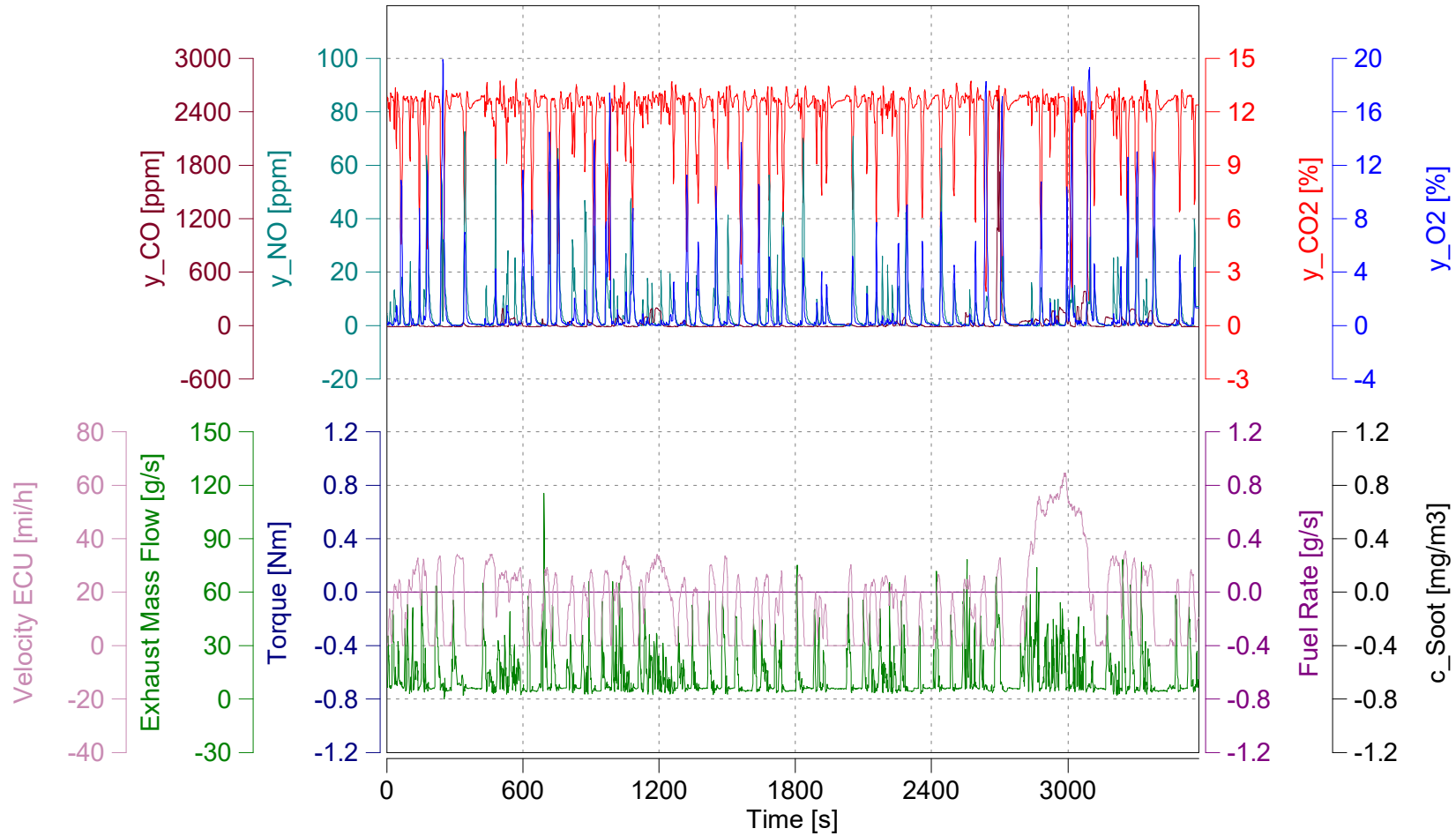
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

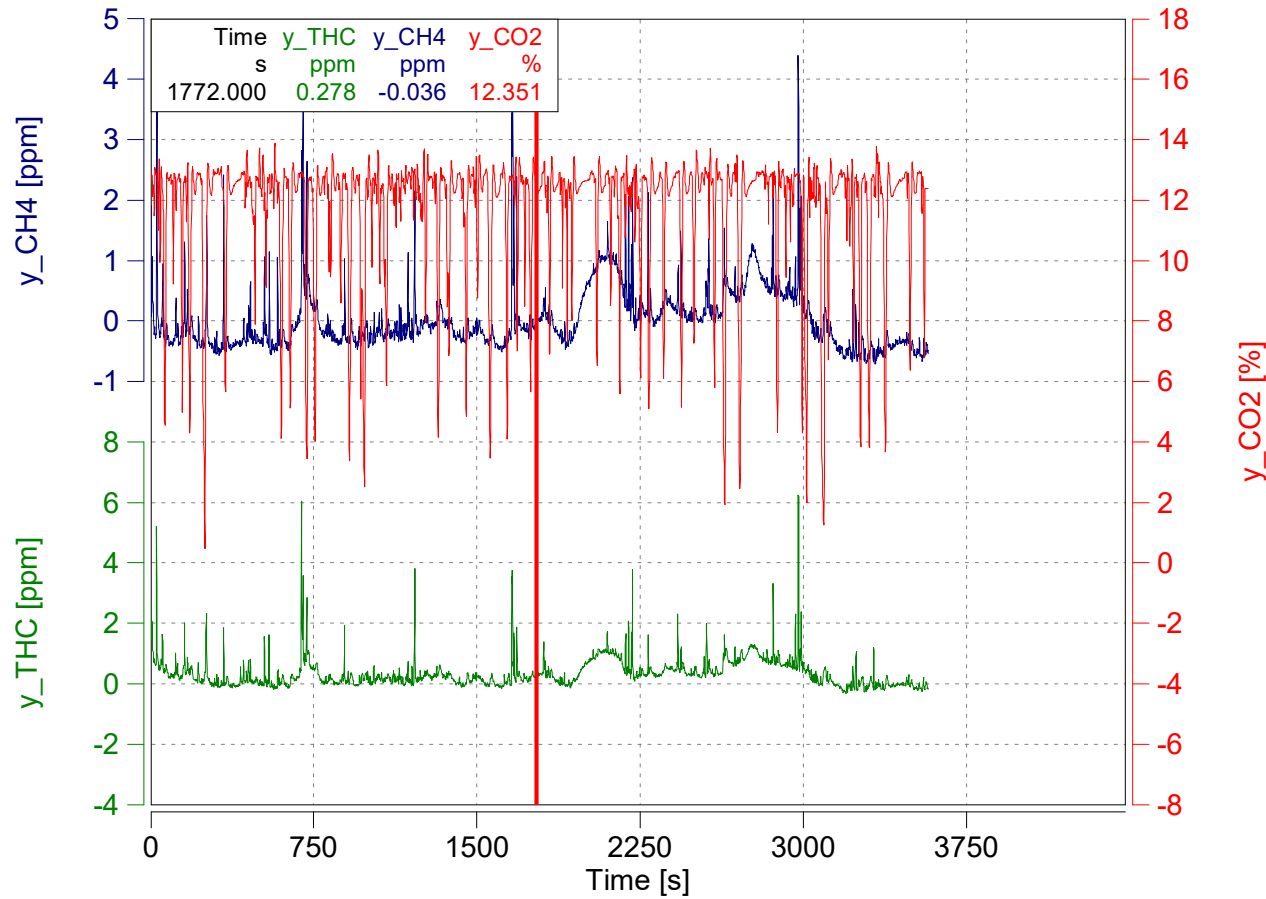
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Case: City

Page: Ambient Conditions

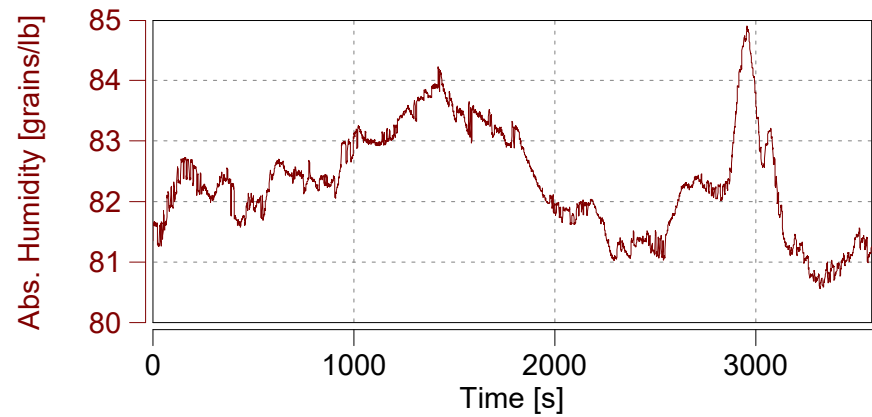
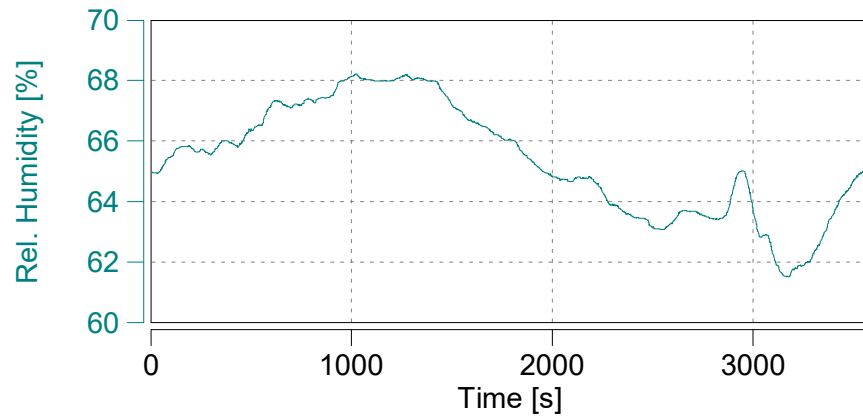
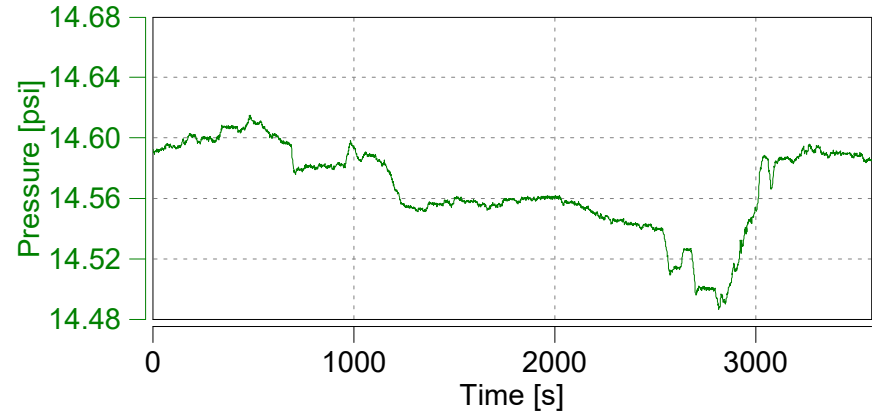
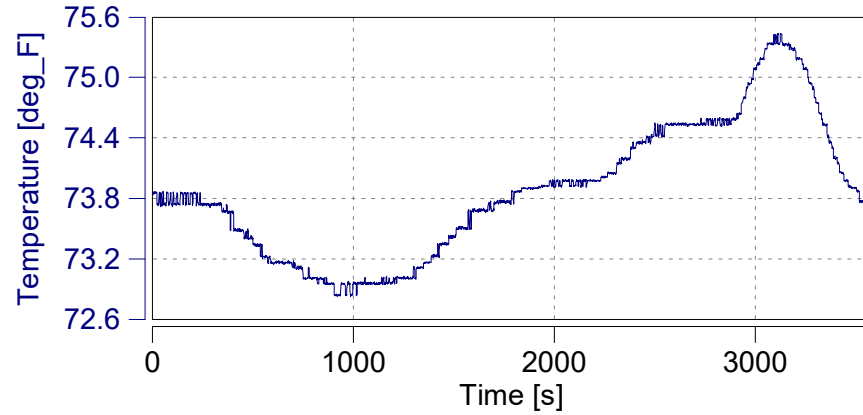
'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

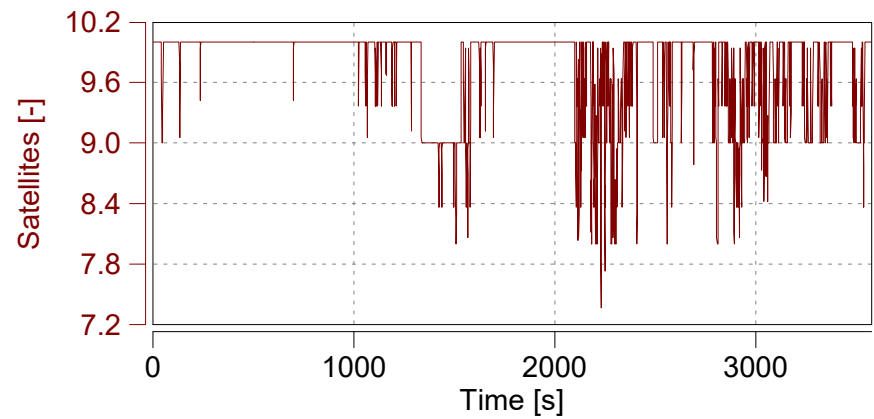
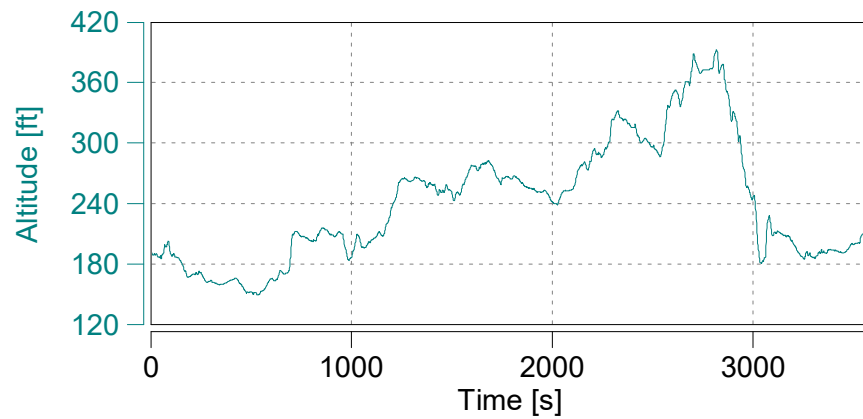
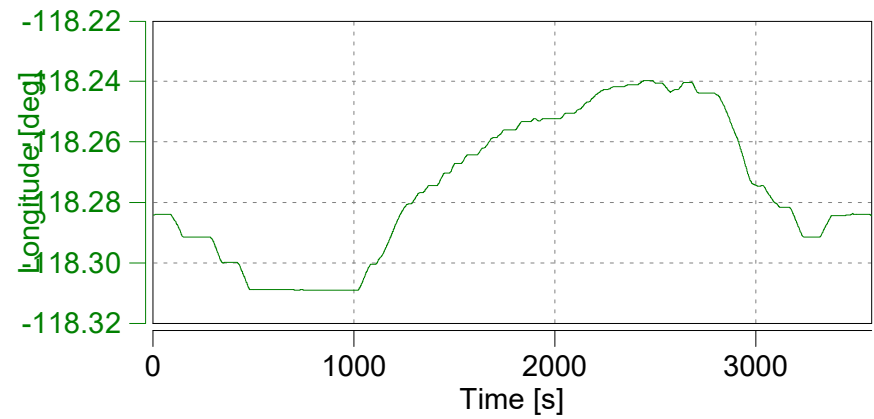
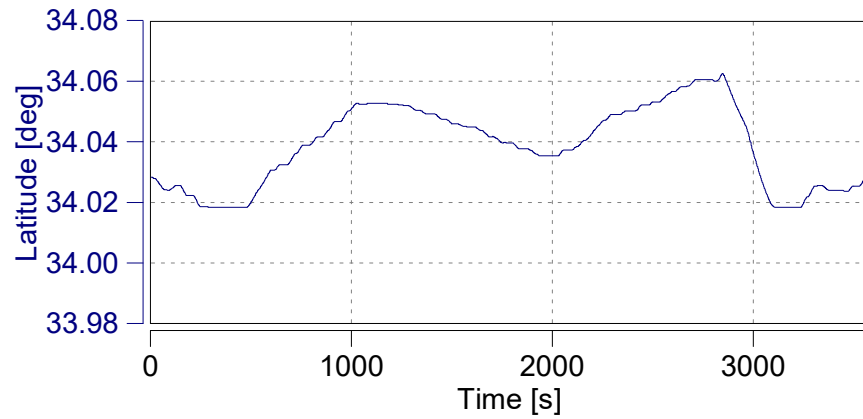
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (1)

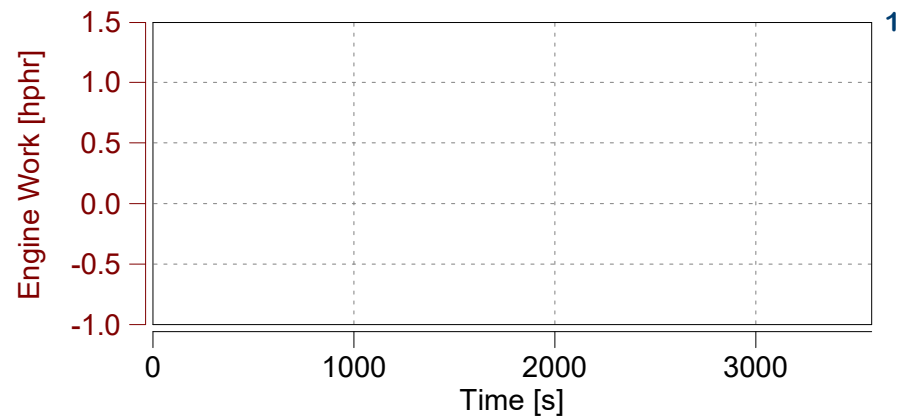
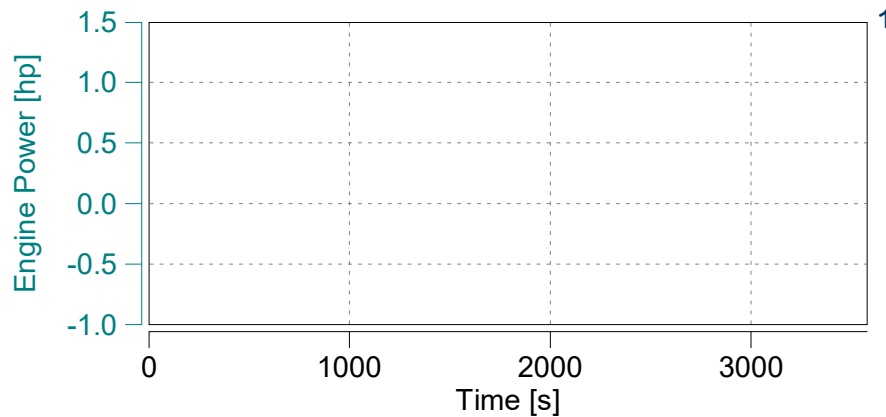
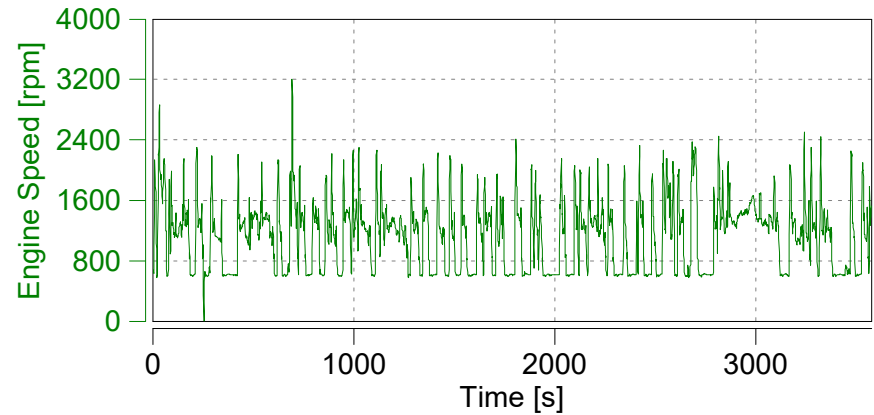
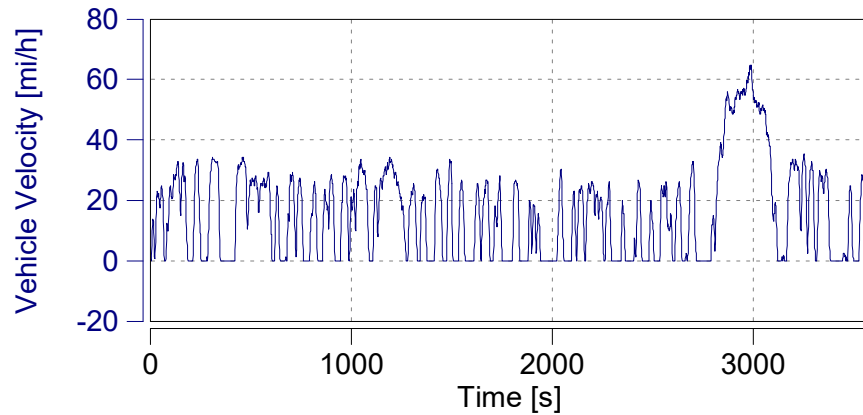
'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

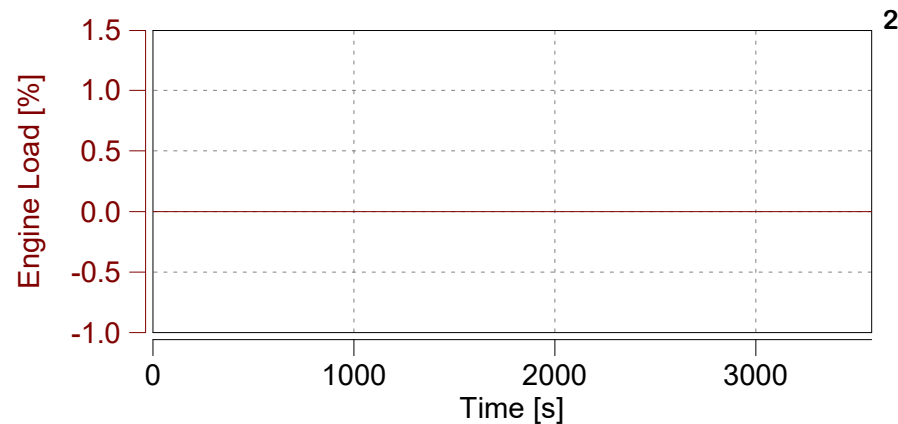
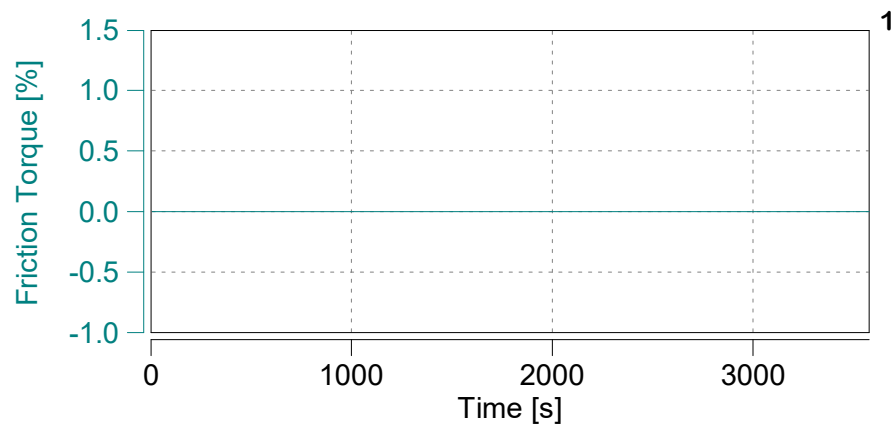
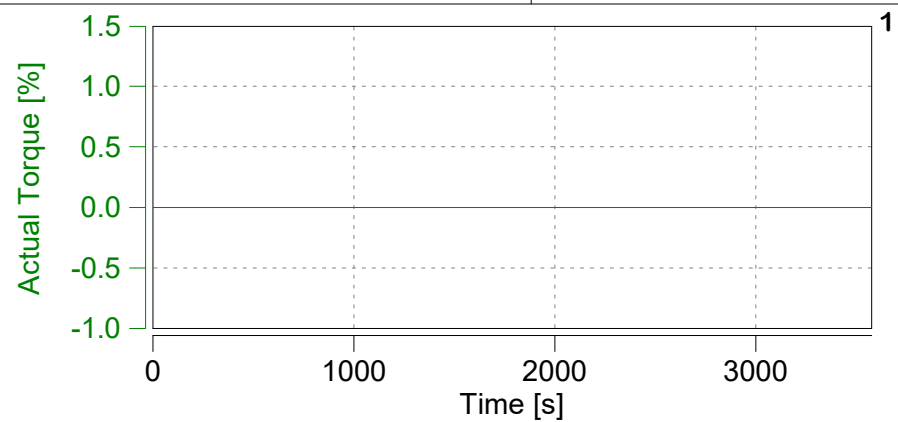
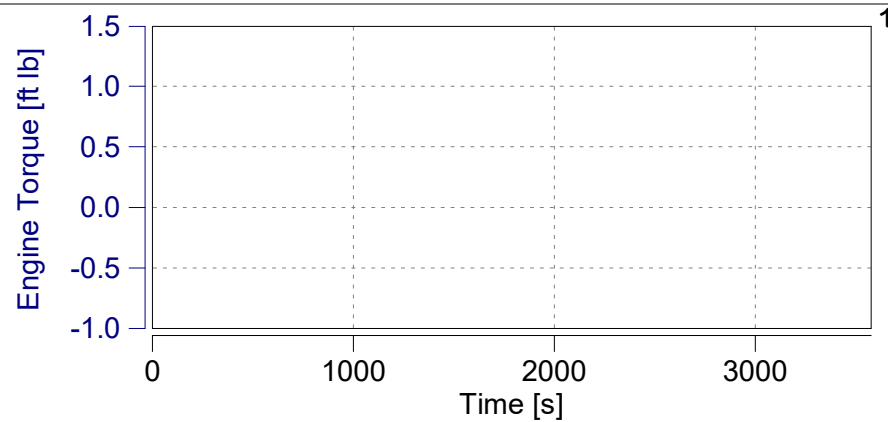
Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

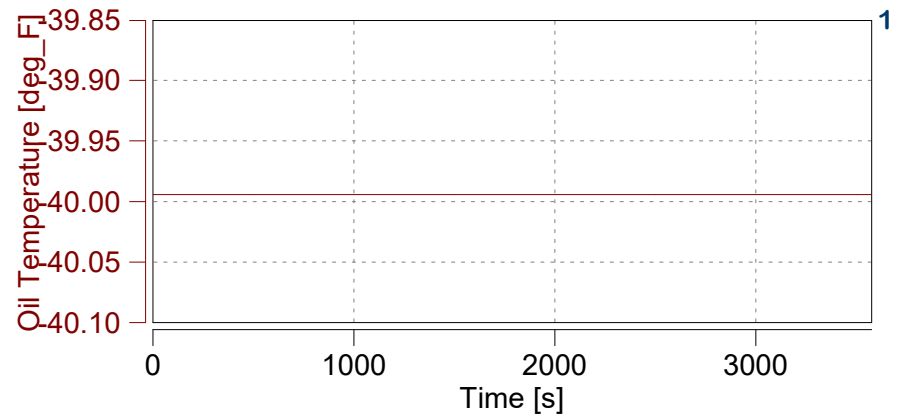
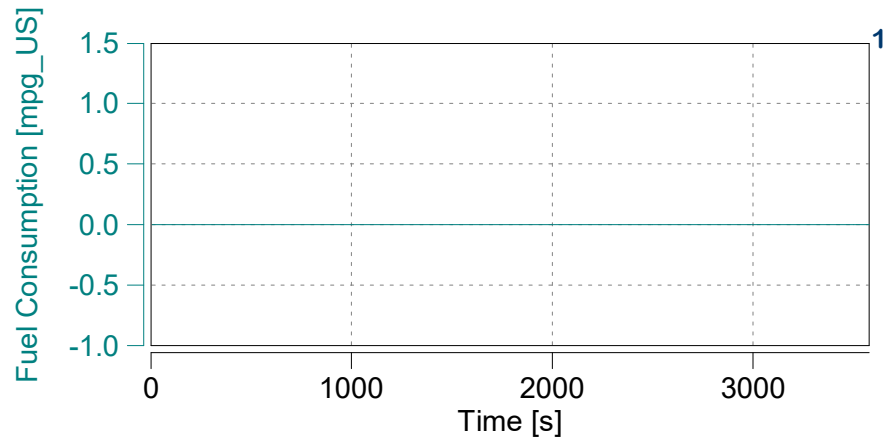
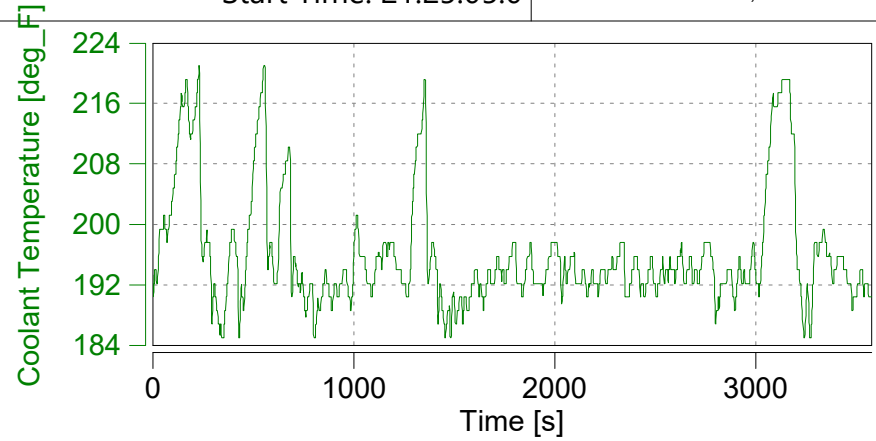
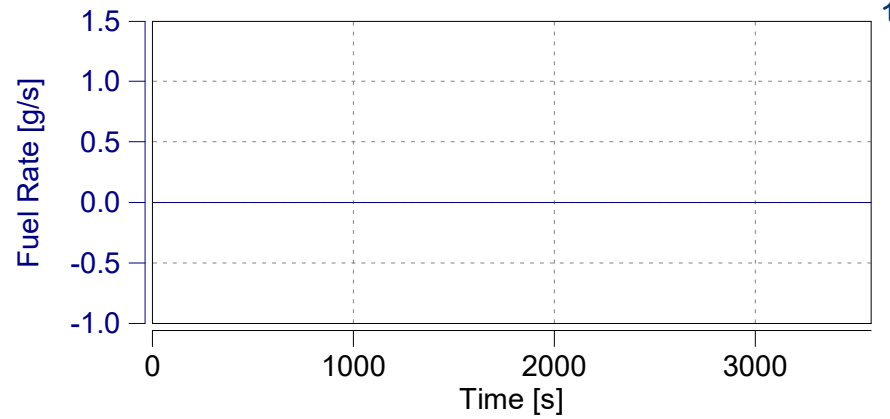
1 ECM torque data was not available on the tested vehicle so some figures will show no results. This will be true for these figures on all vehicles.



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_Engine: /

Vehicle: Audi Q8 / 3.0 L
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

1 ECM torque data was not available on the tested vehicle so some figures will show no results. This will be true for these figures on all vehicles.
2 ECM % Load data is available but the current AVL Concerto system is not plotting this data with this current release. This will be true for these figures on all vehicles.



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

1 ECM fuel rate and oil temperature data was not available on the tested vehicle so some figures will show no results. This will be true for these figures on all vehicles.

Case: City

Page: Exhaust Flow (1)

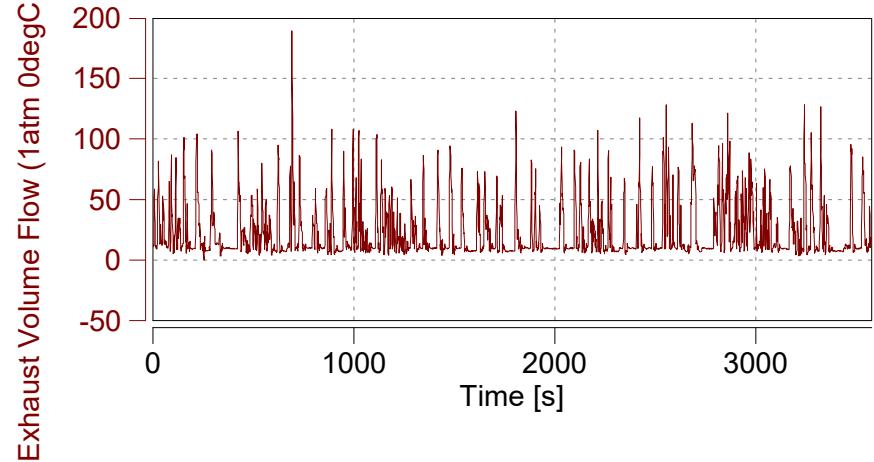
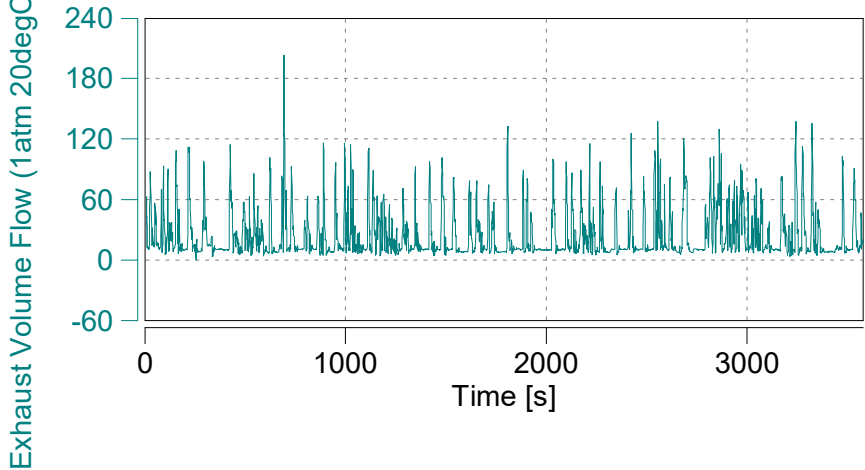
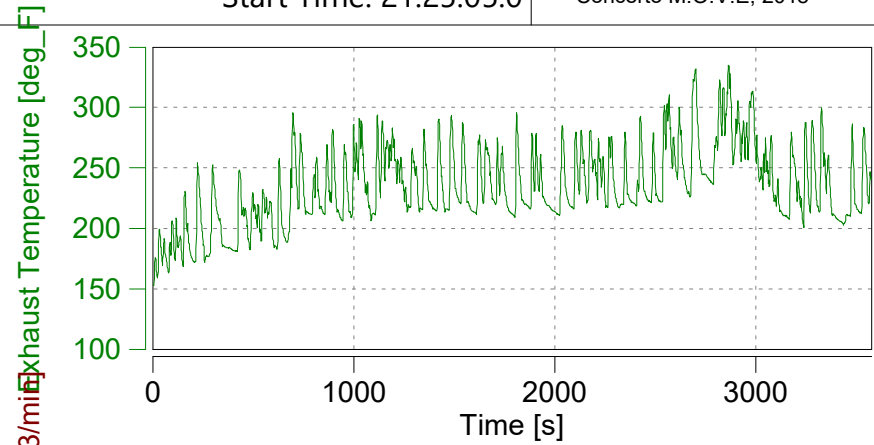
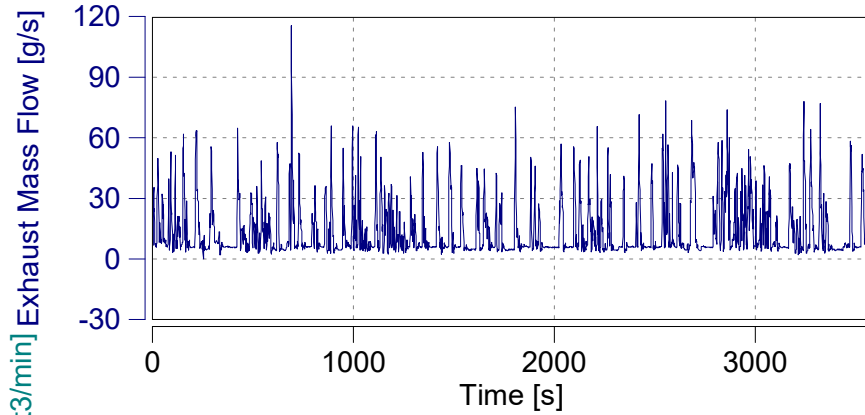
'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (2)

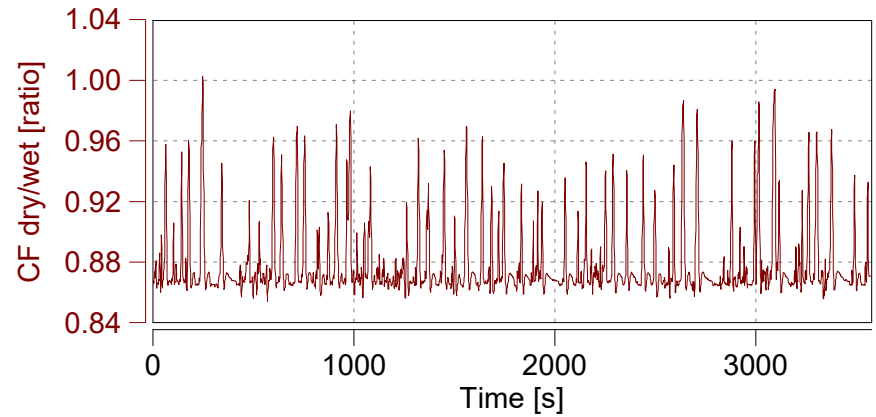
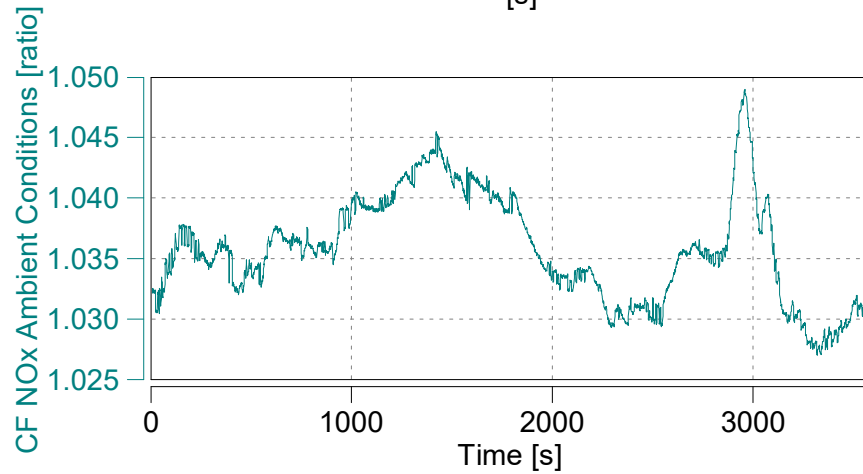
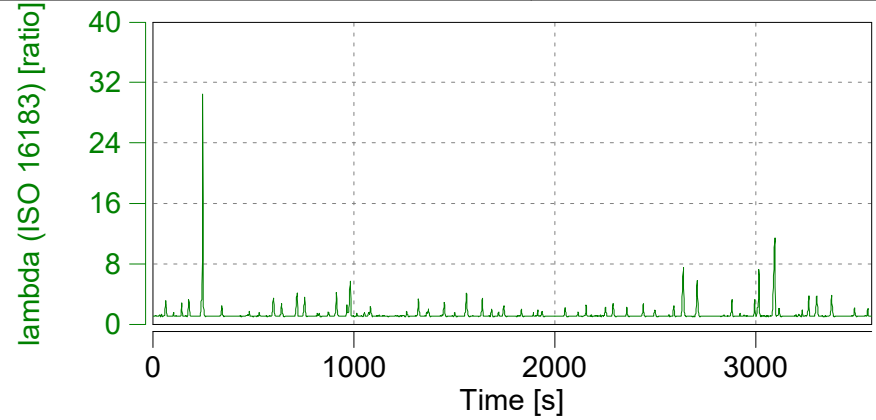
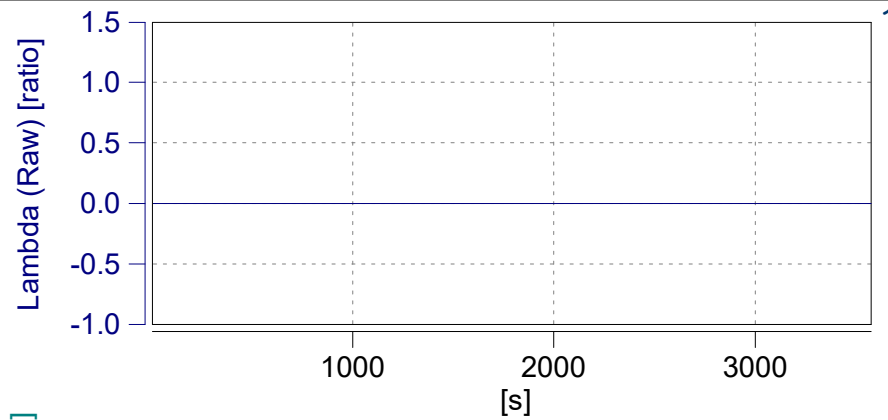
'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

1 ECM Lambda (Raw) [ratio] was not used in this testing. This will be true for these figures on all vehicles.

Case: City

Page: Corrected Emissions (1)

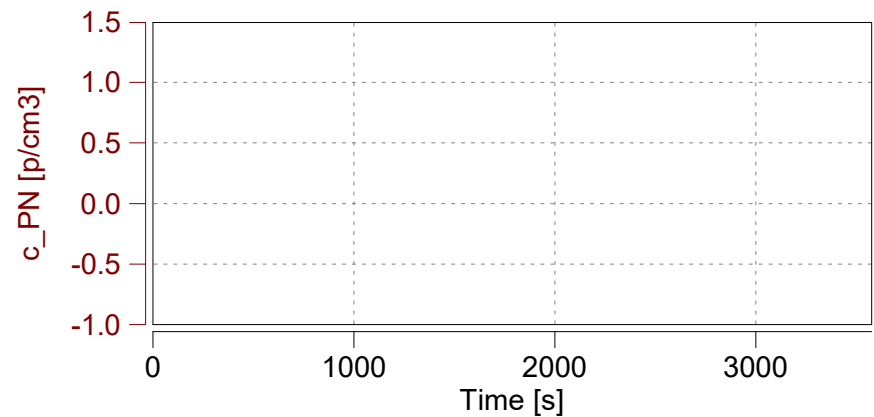
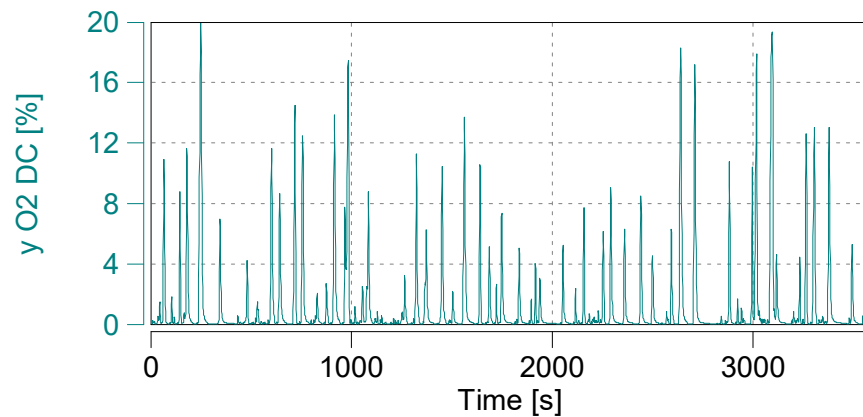
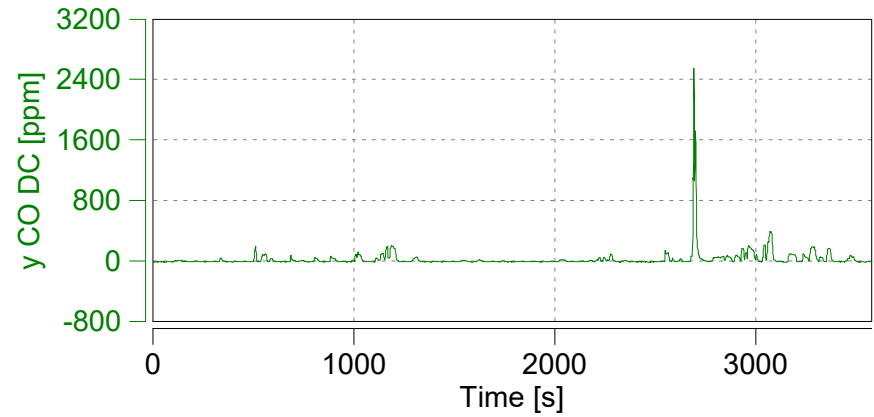
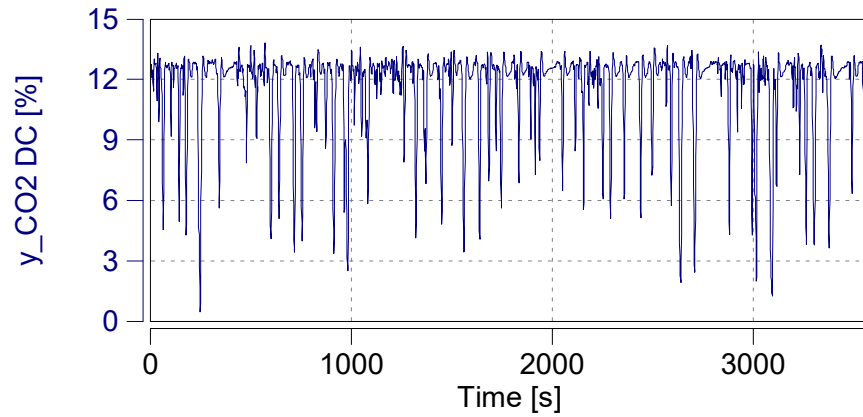
'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

1 c_PN [p/cm3] was not used in this testing. This will be true for these figures on all vehicles.

Case: City

Page: Corrected Emissions (2)

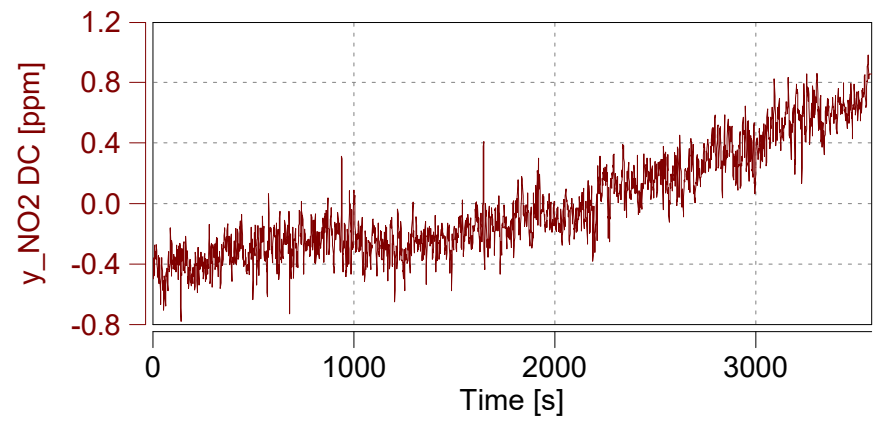
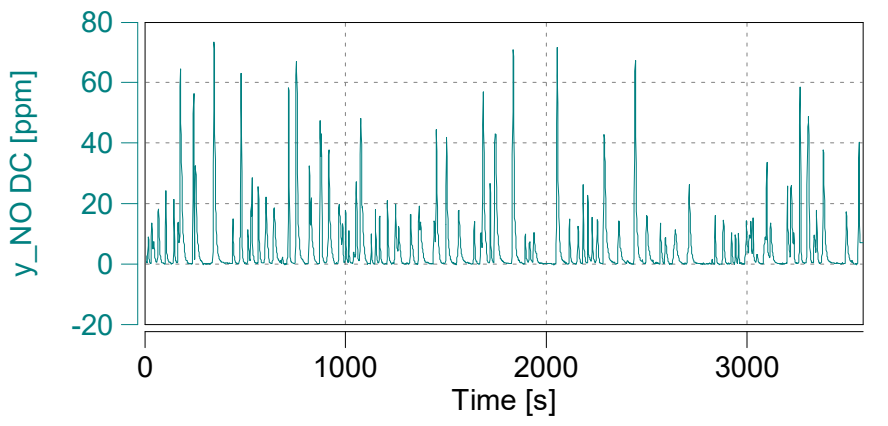
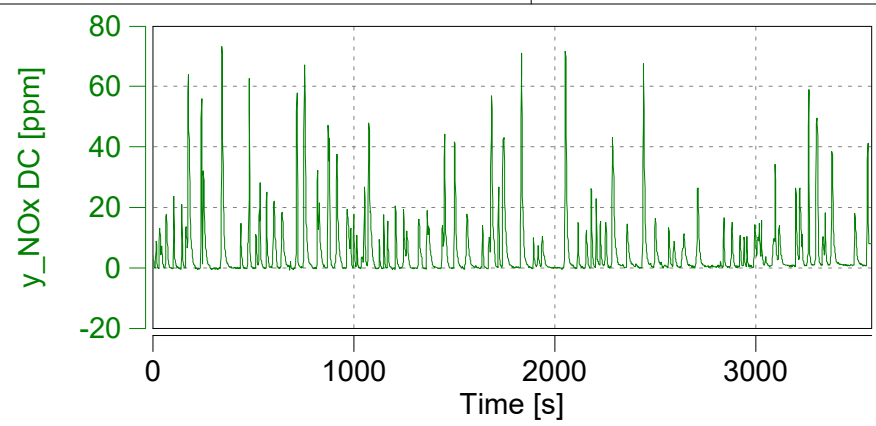
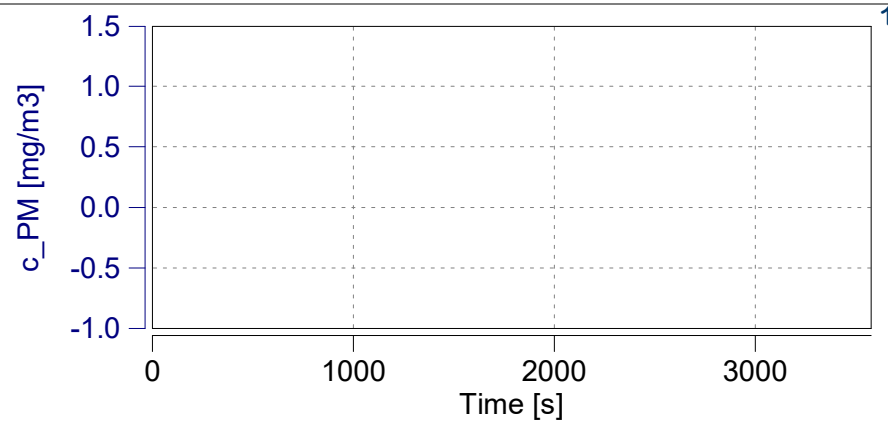
'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



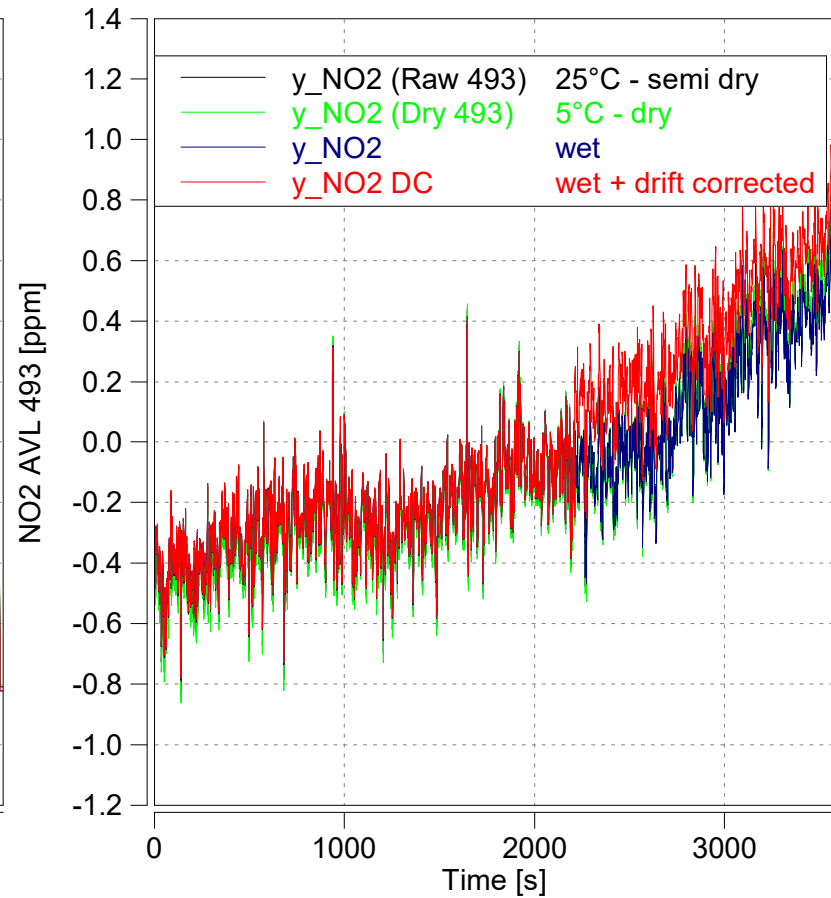
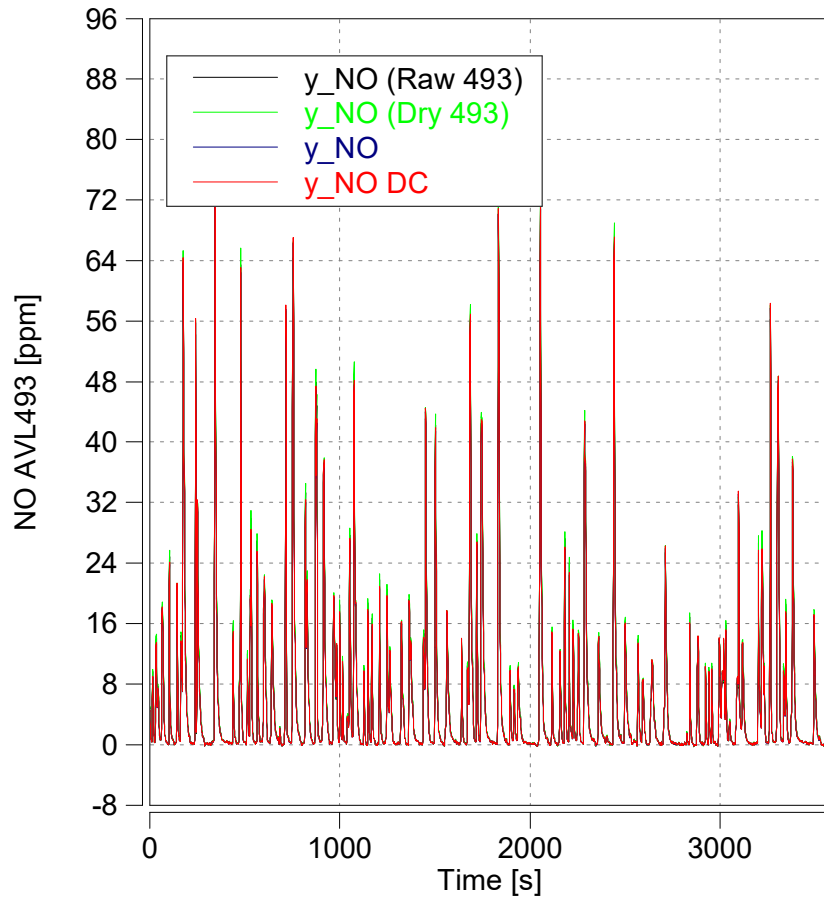
Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Audi Q8 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

1 c_PN [p/cm3] was not used in this testing. This will be true for these figures on all vehicles.

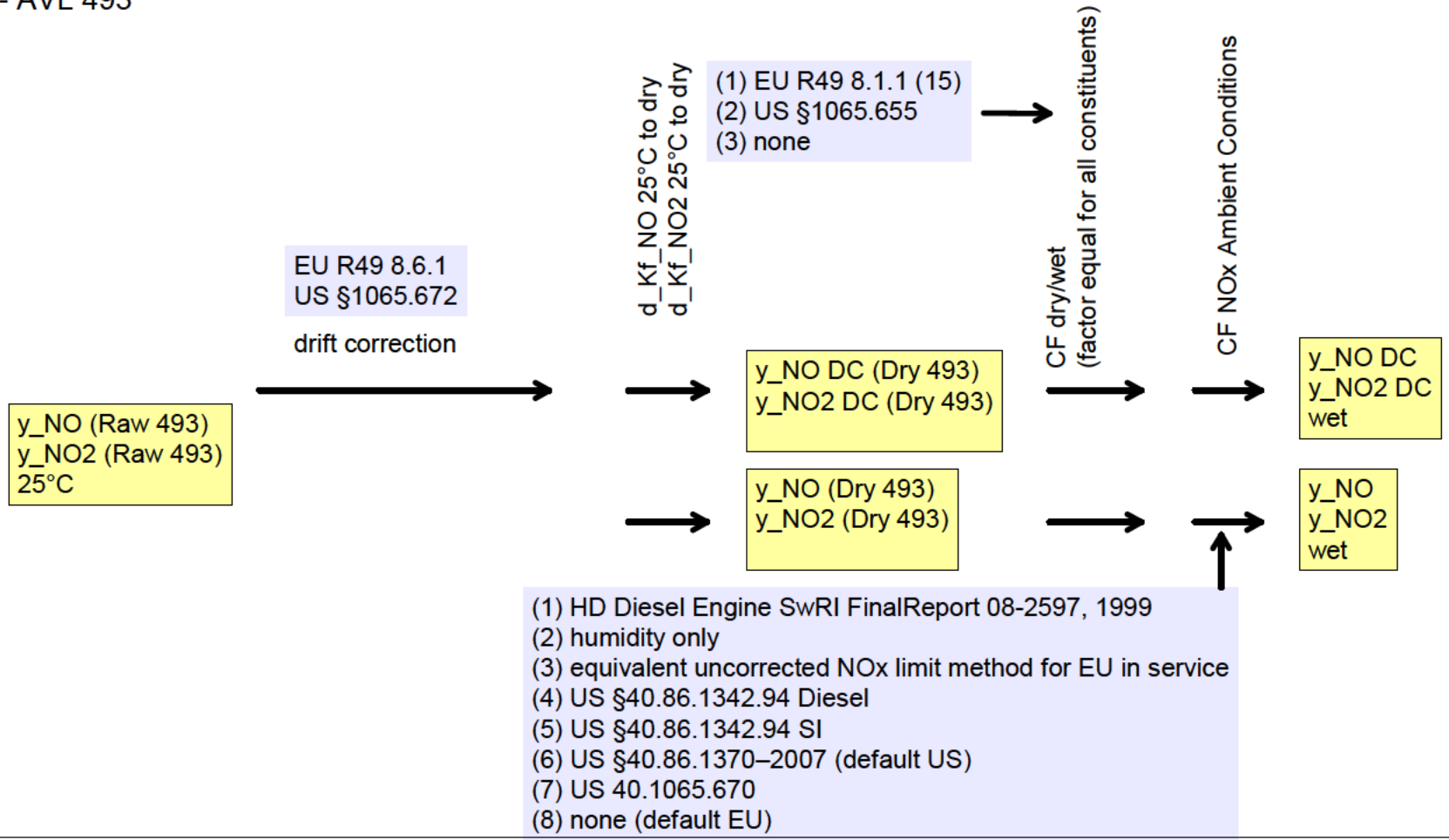


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

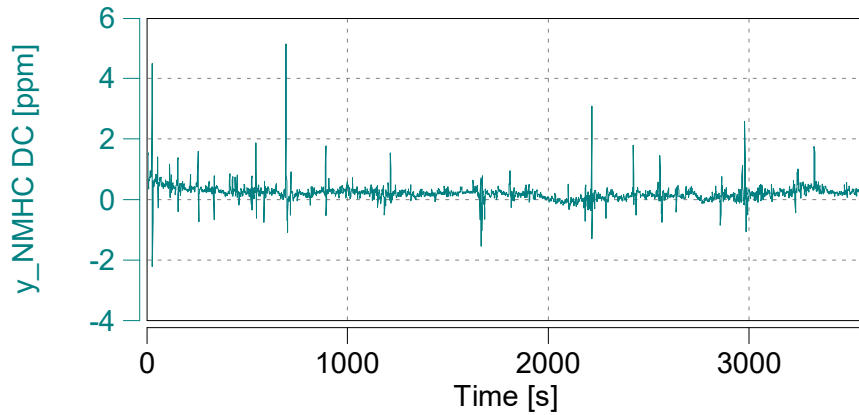
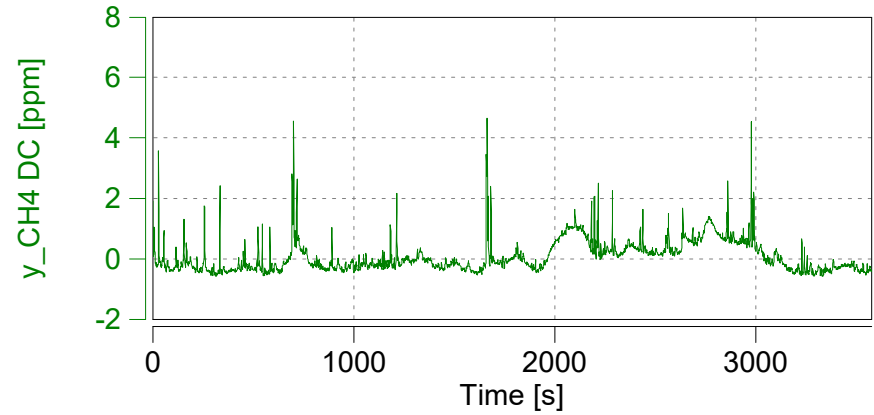
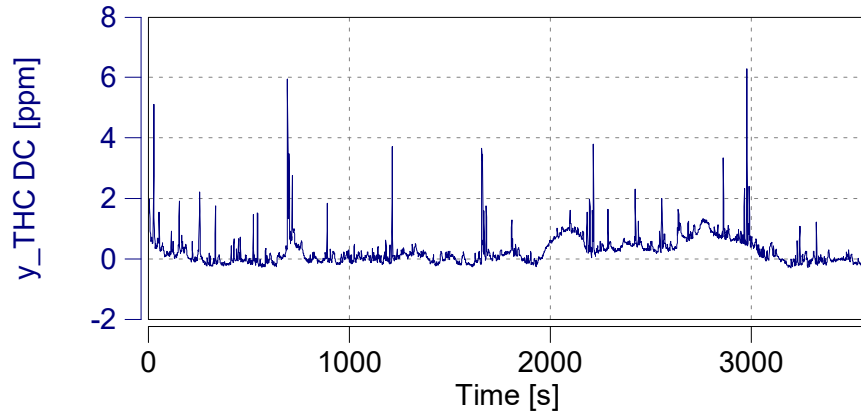
'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

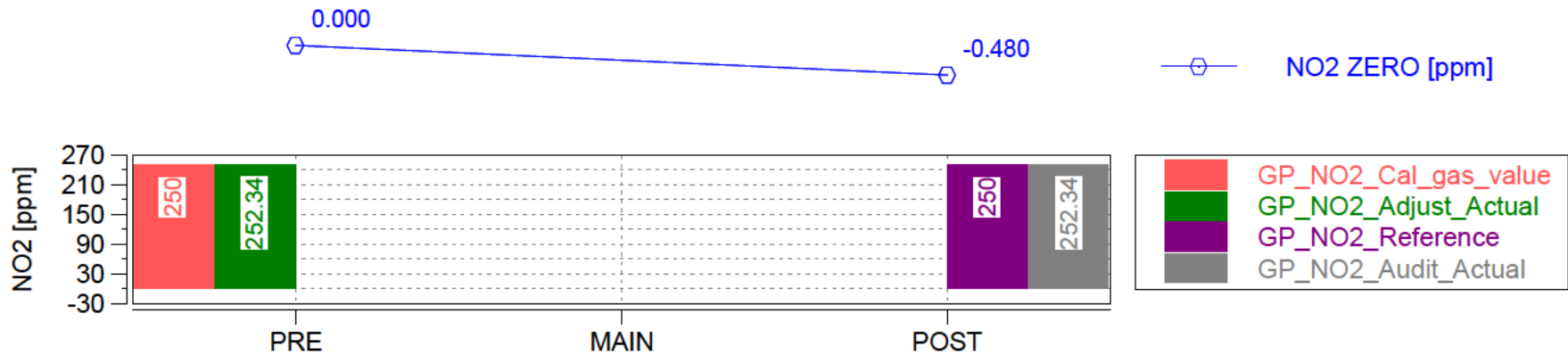
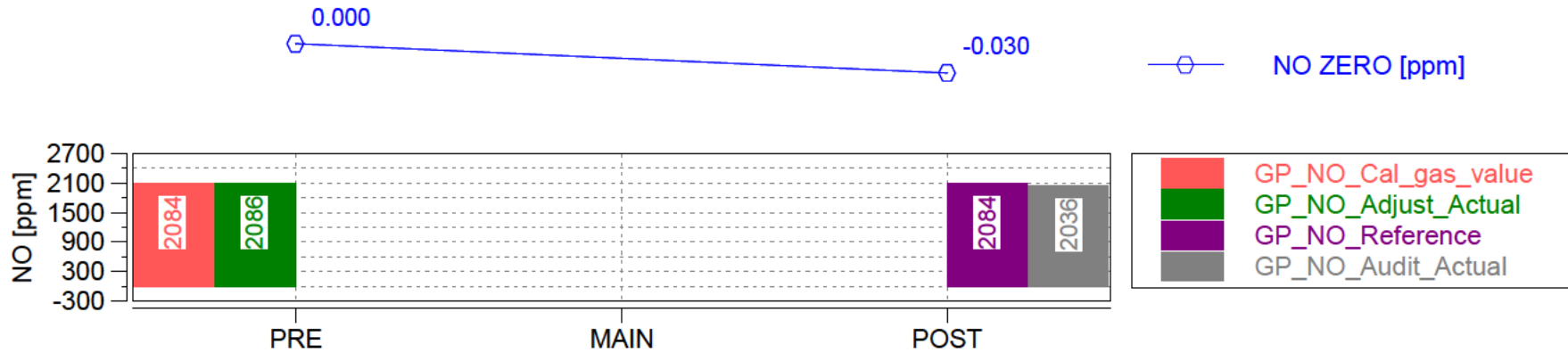
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

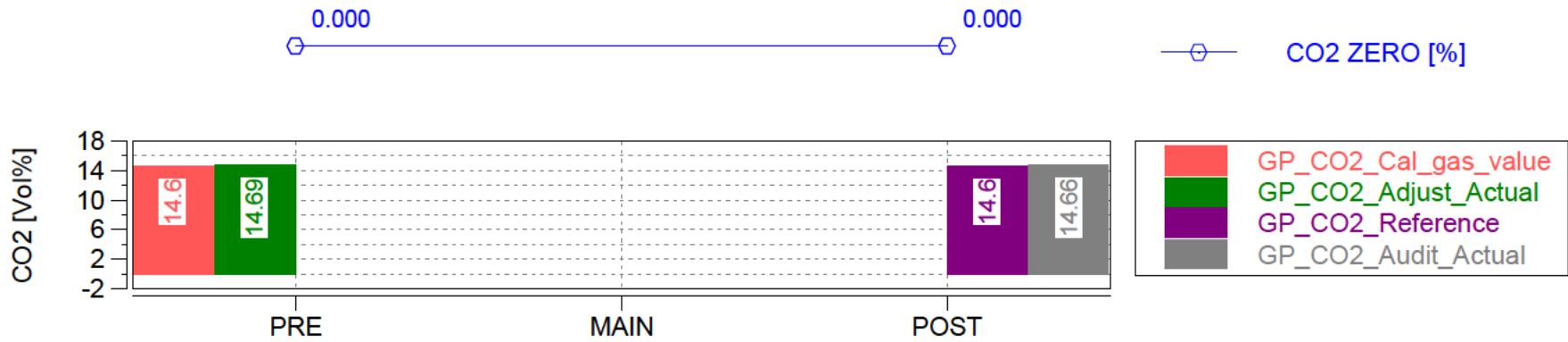
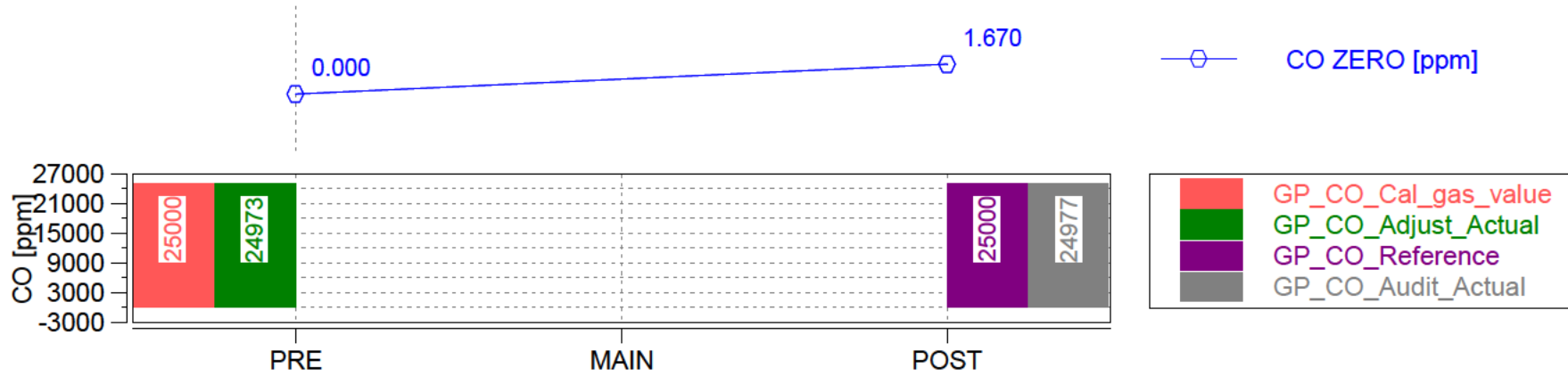
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

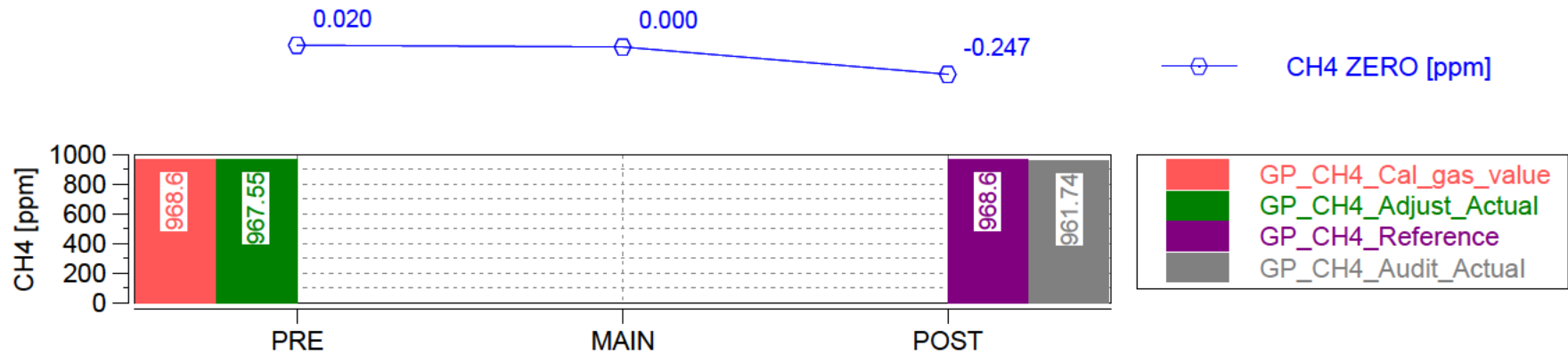
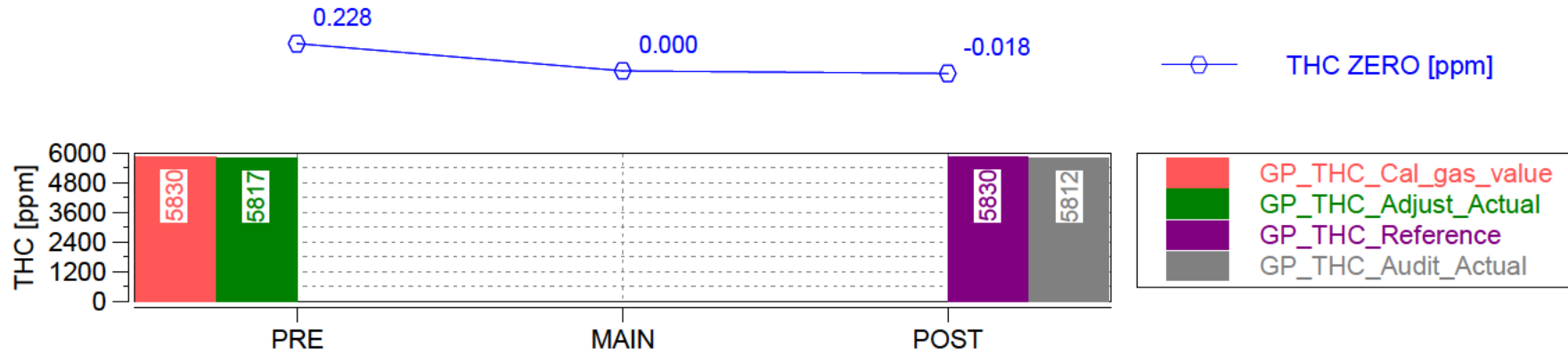
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 07/22/2019
Start Time: 13:46:02.0



Trip Duration	2708.00	s	ave THC	0.38839	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2708.00	s	ave NMHC	0.38062	ppm	BS CO	n/a	g/hphr
Trip Distance	37.57	mi	ave CH4	0.00777	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	37.57	mi	ave CO	131.70231	ppm	BS NMHC	n/a	g/hphr
			ave CO2	12.15048	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx	3.63343	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.88	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.83	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC	0.02287	g	BS PN	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.73	gall	tot NMHC	0.02115	g			
Trip Fuel Cons. Volume US (ac)	1.71	gall	tot CH4	0.00051	g	DS CO2	391.00276	g/mi
			tot CO	11.62465	g	DS CO	0.30940	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2	14690.44210	g	DS THC	0.00061	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO (d)	0.16019	g	DS NMHC	0.00056	g/mi
Trip Fuel Economy EU (ac)	21.77	mpg_US	tot NO2	0.08725	g	DS CH4	0.00001	g/mi
Trip Fuel Economy US (ac)	21.99	mpg_US	tot NOx	0.24744	g	DS NO (d)	0.00426	g/mi
			tot Soot	n/a	g	DS NO2	0.00232	g/mi
Trip Av. Eng. Speed	1506.58	rpm	tot Soot meas	n/a	g	DS NOx	0.00659	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN	n/a	#/mi
Trip Exhaust Mass	76.48	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
Trip Av. Amb. Temperature	80.20	deg_F				FS NMHC	n/a	g/kg
Trip Av. Humidity	50.65	%	Trip Av. Veh. Speed	49.94694	mi/hr	FS CH4	n/a	g/kg
			Trip Velocity Zero	5.24372	%	FS NO (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironmets\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0



Concerto M.O.V.E., 2018

Trip Duration	2708.00	s	ave THC DC	-0.02699	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2708.00	s	ave NMHC DC	-0.02645	ppm	BS CO DC	n/a	g/hphr
Trip Distance	37.57	mi	ave CH4 DC	-0.00054	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	37.57	mi	ave CO DC	131.78744	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.15465	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	3.69393	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.88	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.83	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.73	gall	tot THC DC	0.00701	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.71	gall	tot NMHC DC	0.00649	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00016	g	DS CO2 DC	391.13672	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	11.63216	g	DS CO DC	0.30960	g/mi
Trip Fuel Economy EU (ac)	21.77	mpg_US	tot CO2 DC	14695.47479	g	DS THC DC	0.00019	g/mi
Trip Fuel Economy US (ac)	21.99	mpg_US	tot NO DC (d)	0.16277	g	DS NMHC DC	0.00017	g/mi
Trip Av. Eng. Speed	1506.58	rpm	tot NO2 DC	0.08891	g	DS CH4 DC	0.00000	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.25168	g	DS NO DC (d)	0.00433	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00237	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.00670	g/mi
Trip Exhaust Mass	76.48	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	80.20	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	50.65	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	49.94694	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	5.24372	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

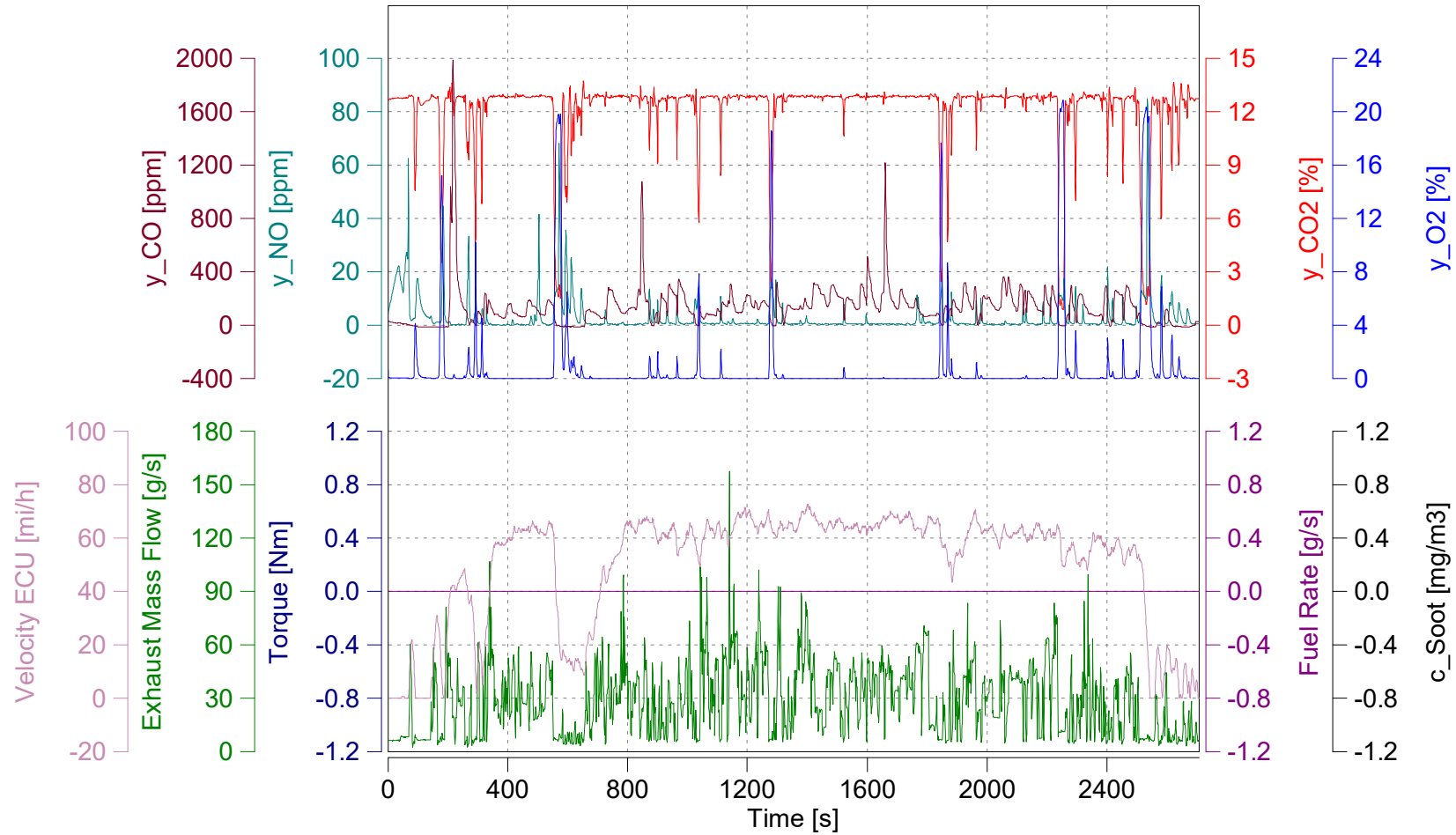
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

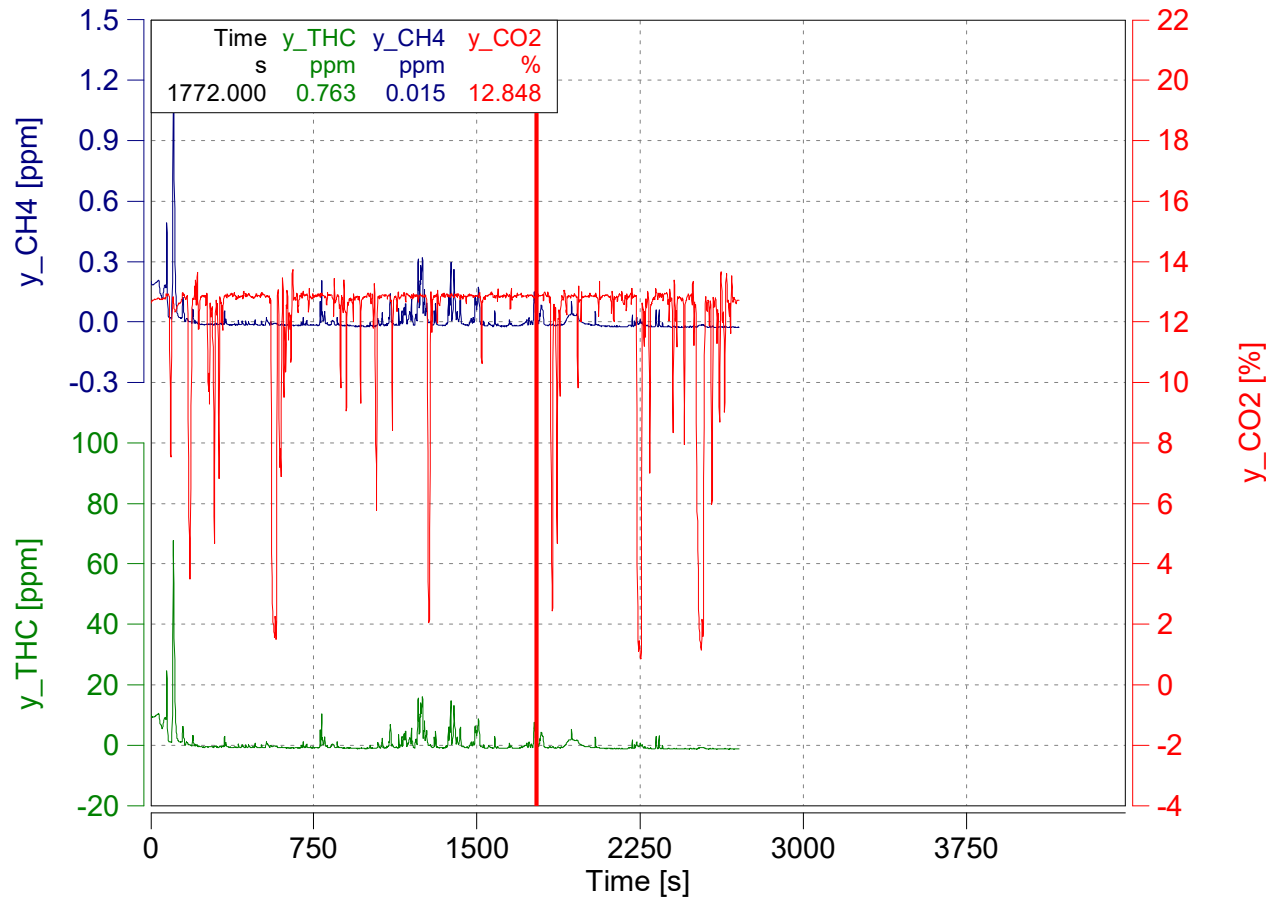
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Ambient Conditions

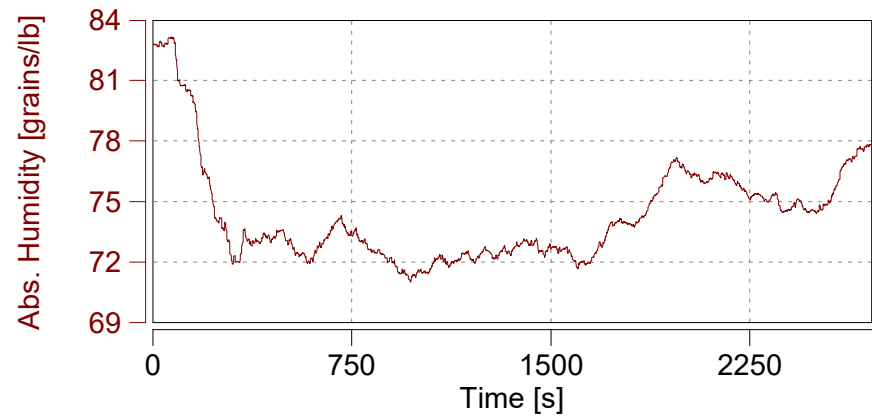
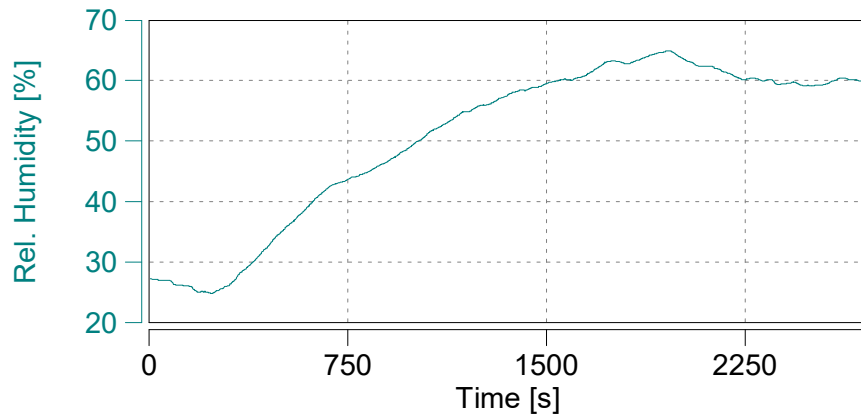
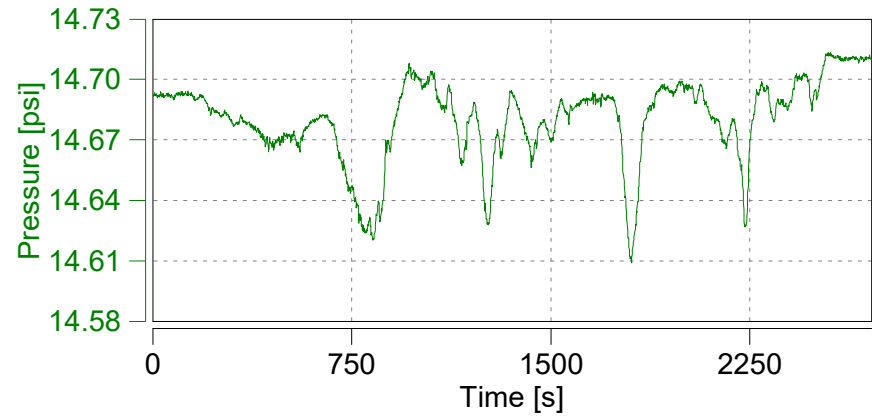
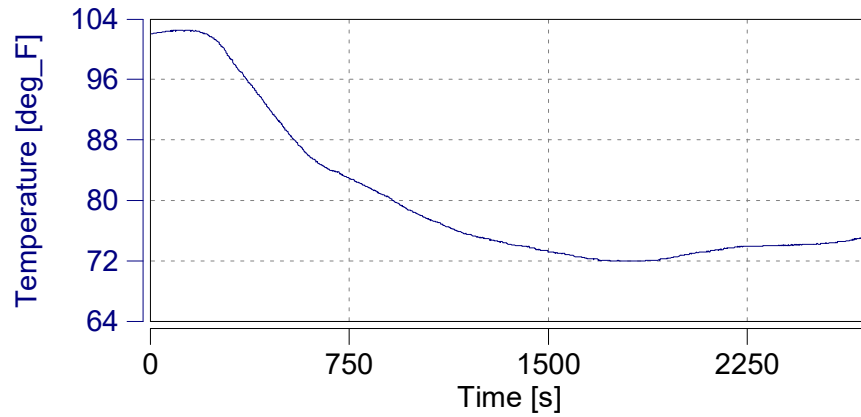
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

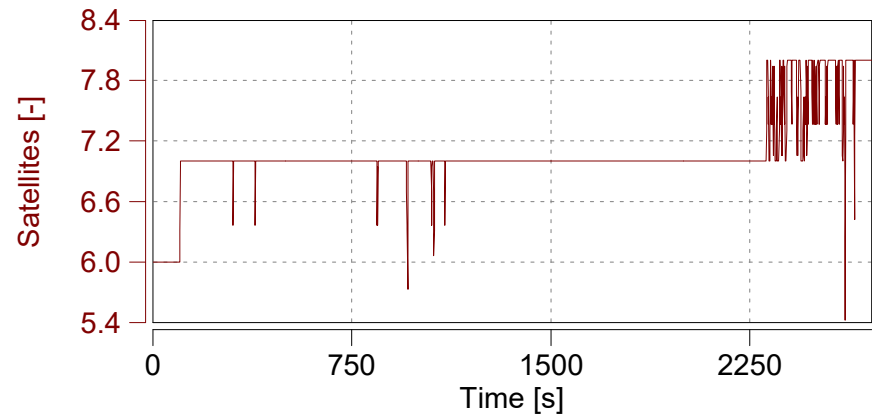
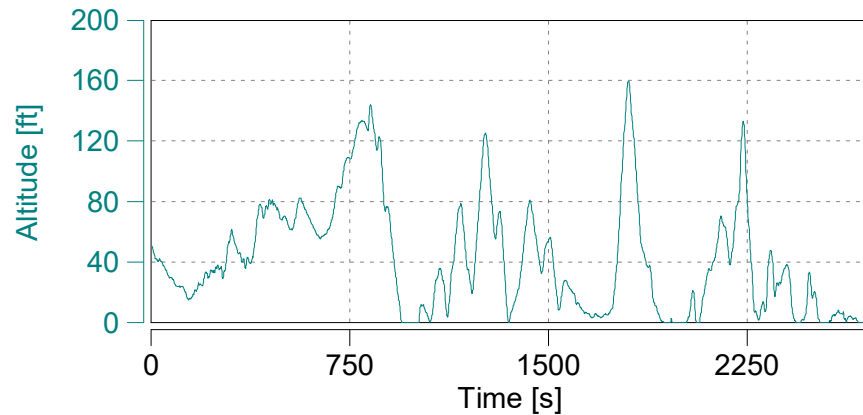
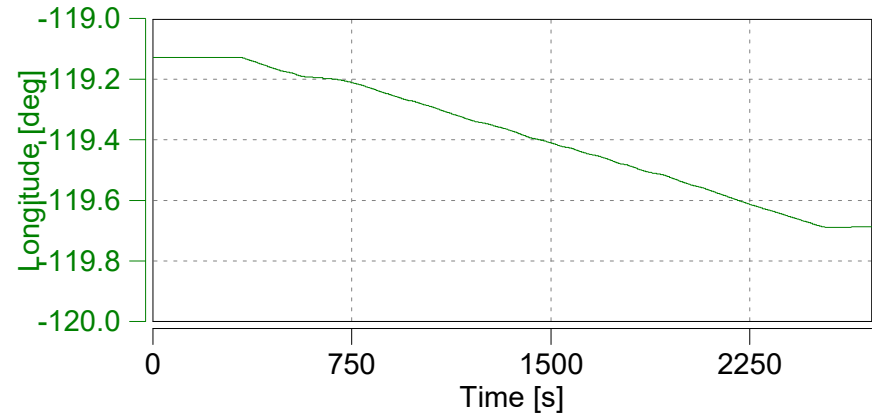
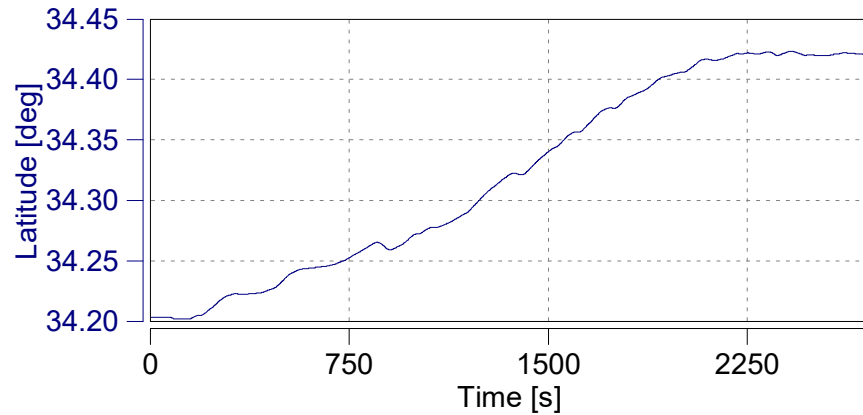
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0

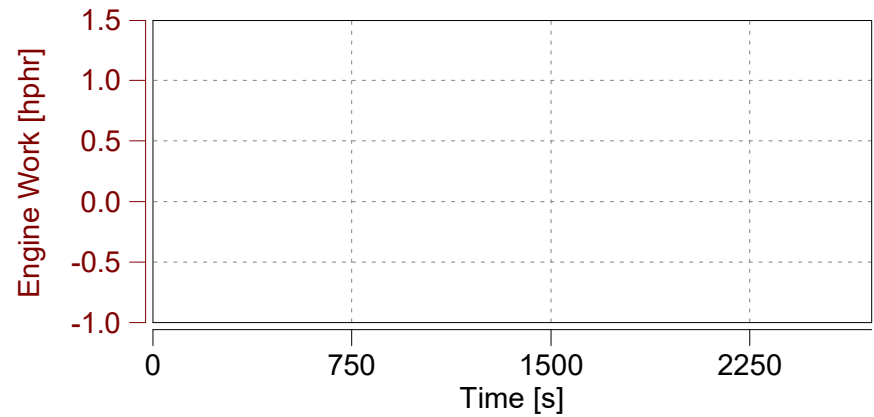
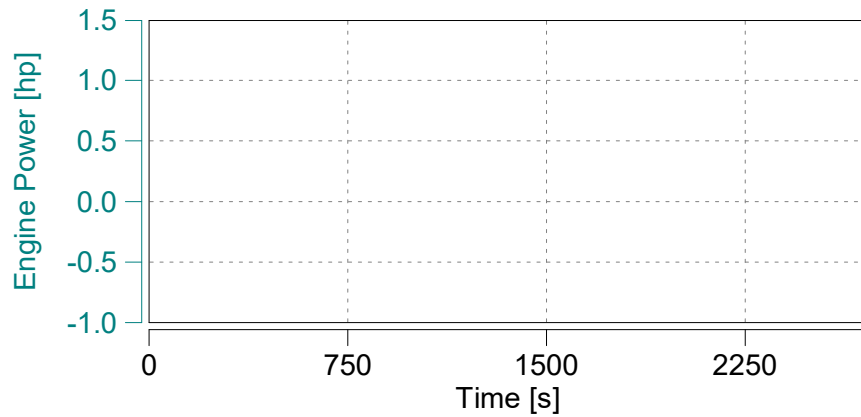
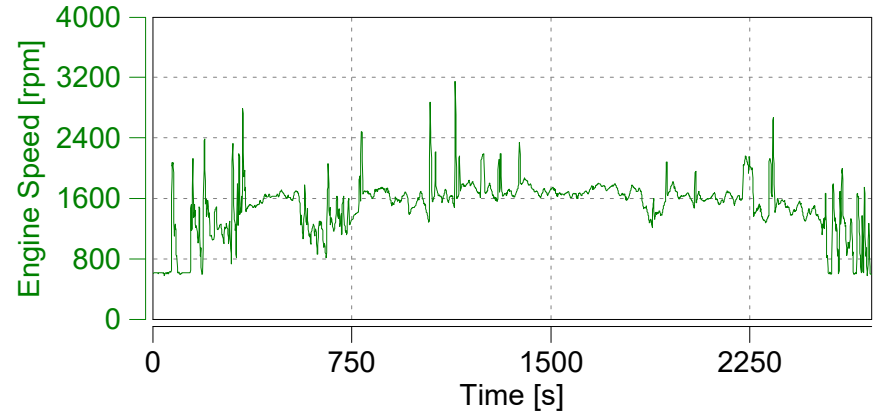
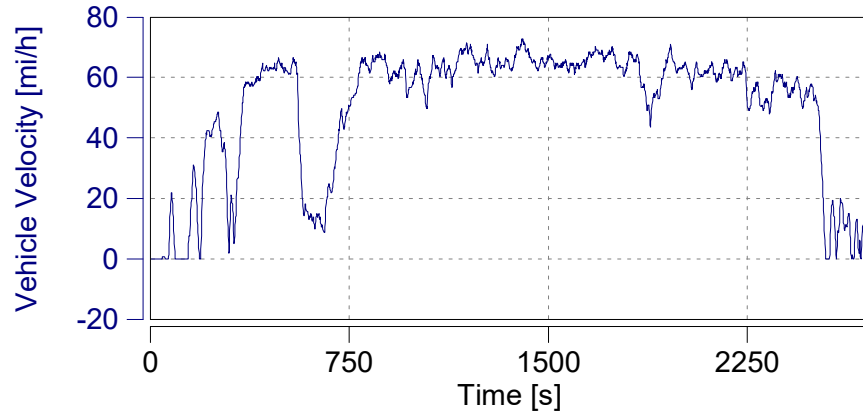


Concerto M.O.V.E., 2018



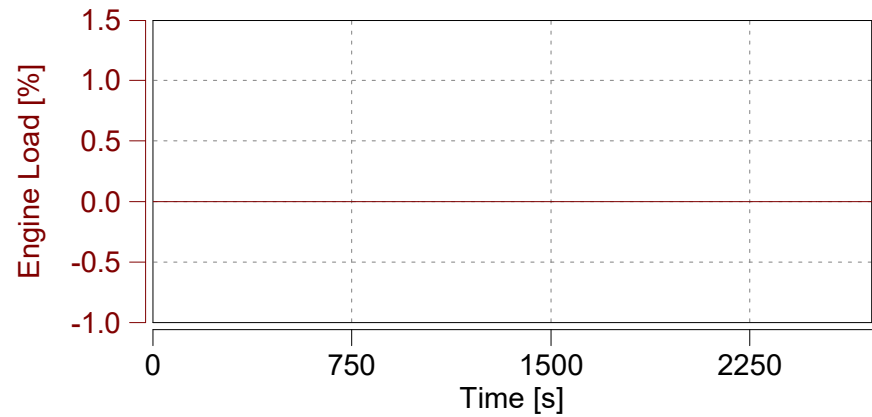
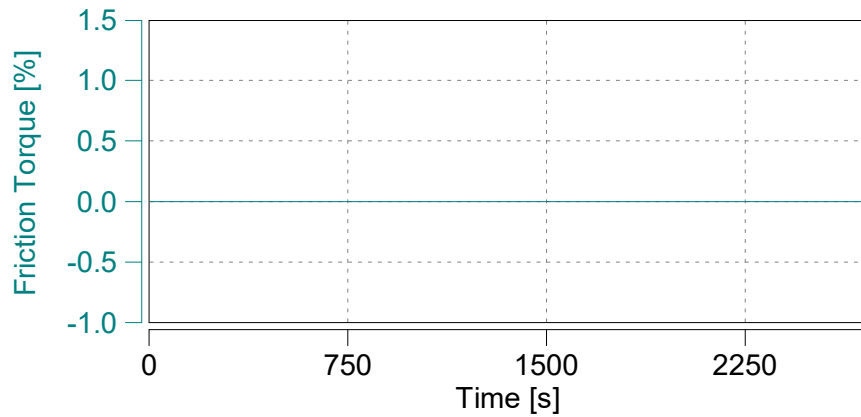
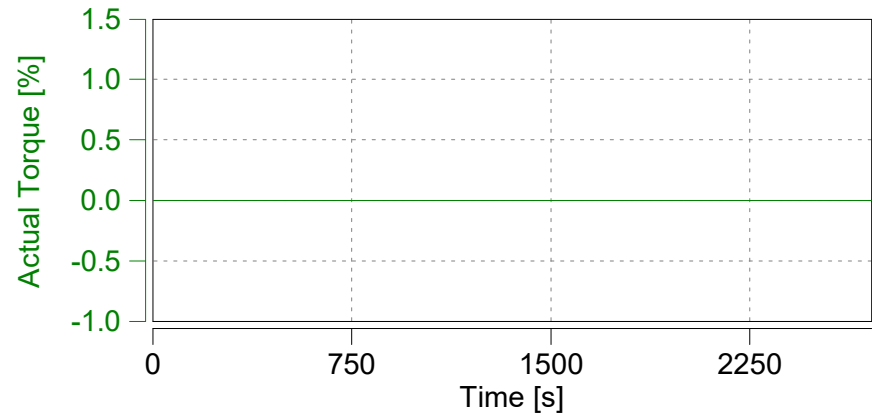
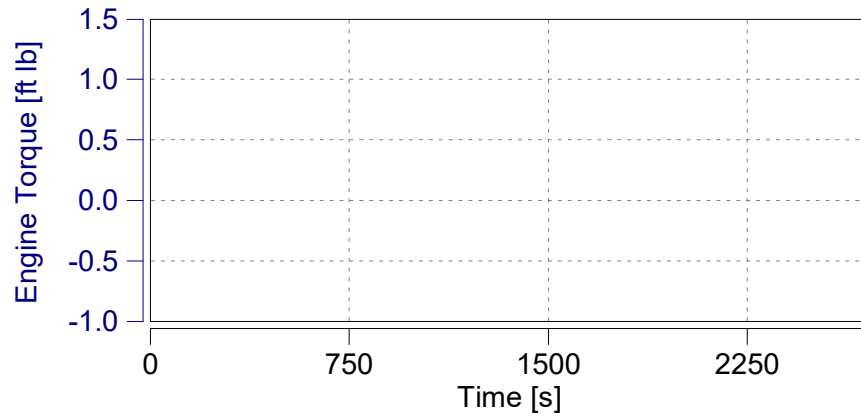
Concerto Version: 480 Build 316, Serial Number: 1120
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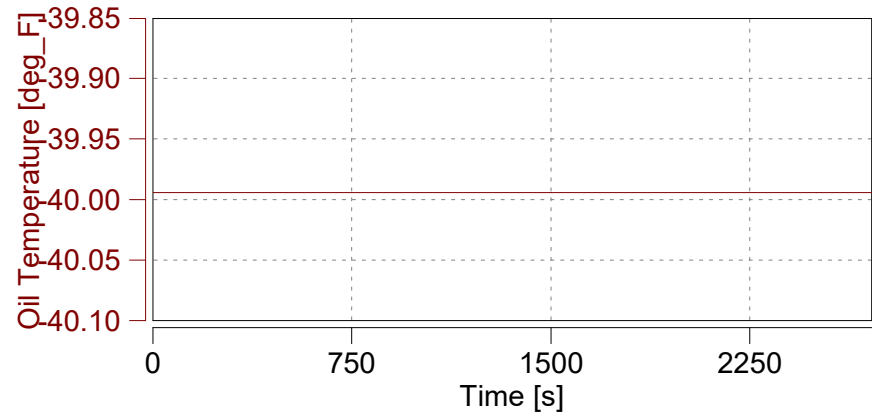
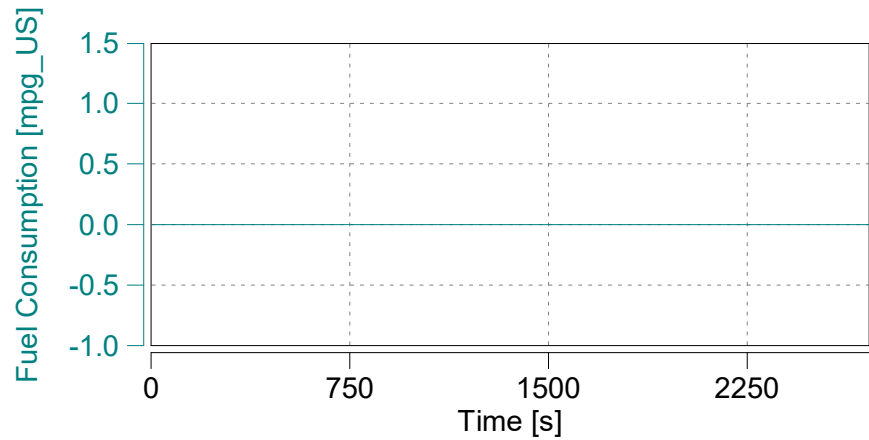
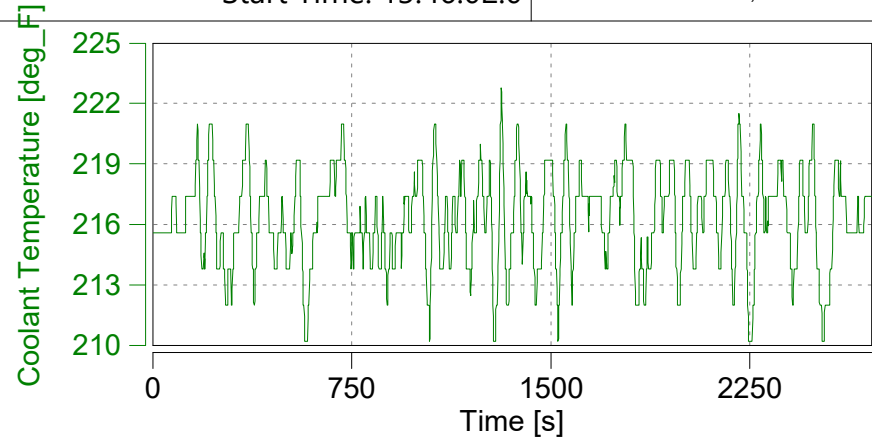
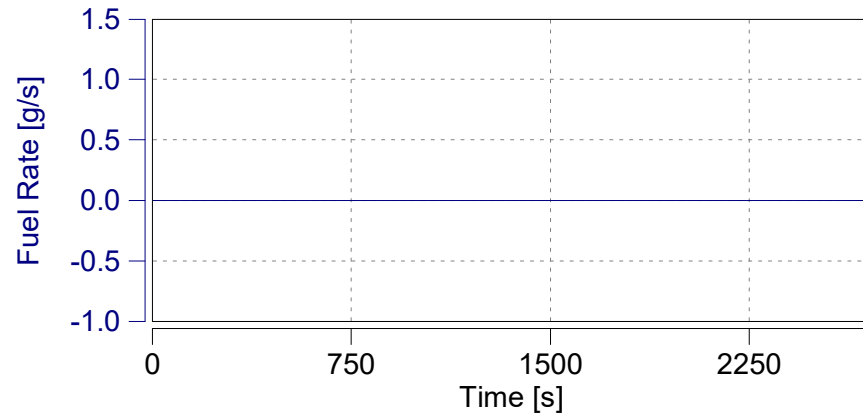
Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

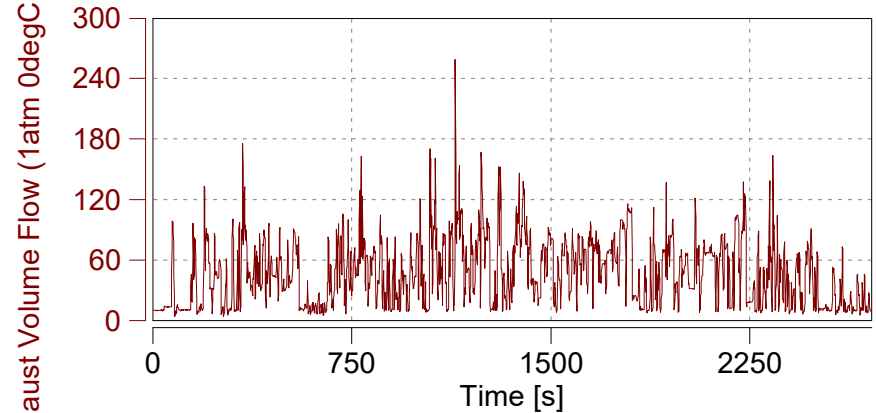
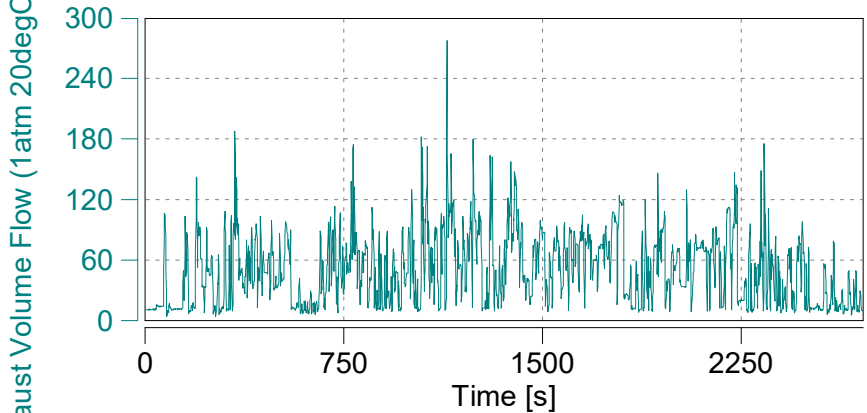
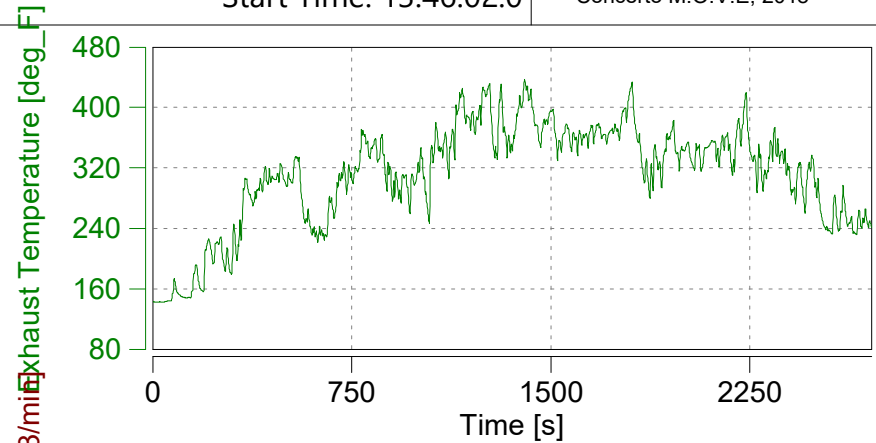
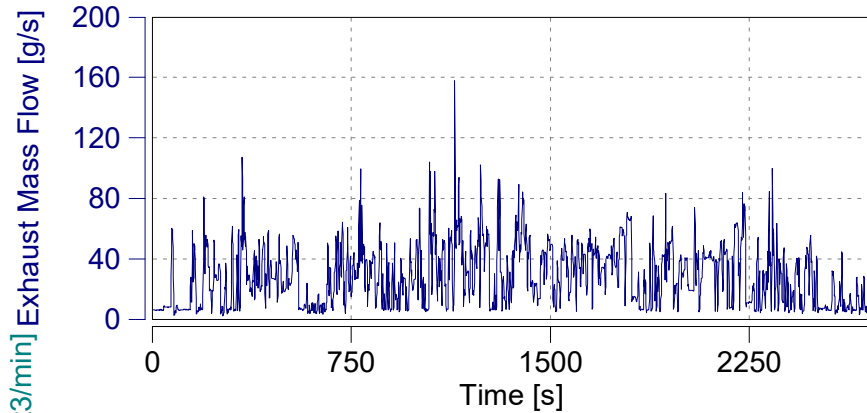
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (2)

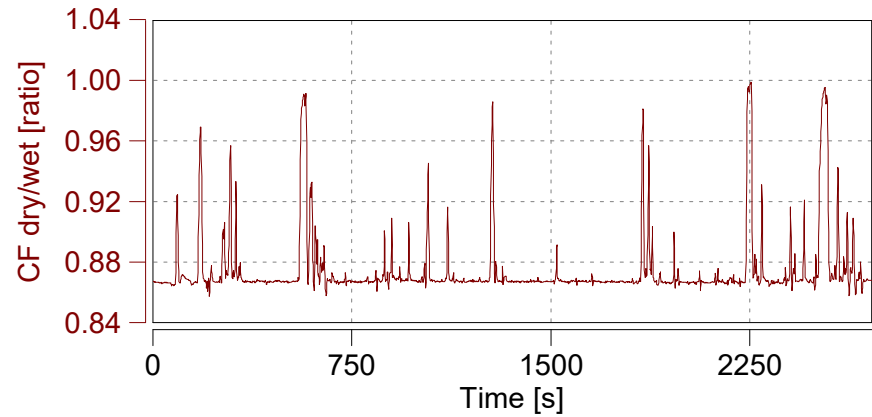
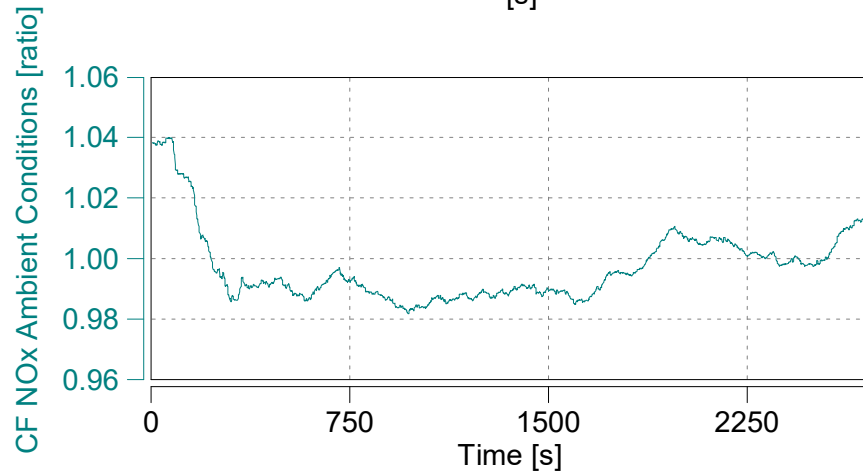
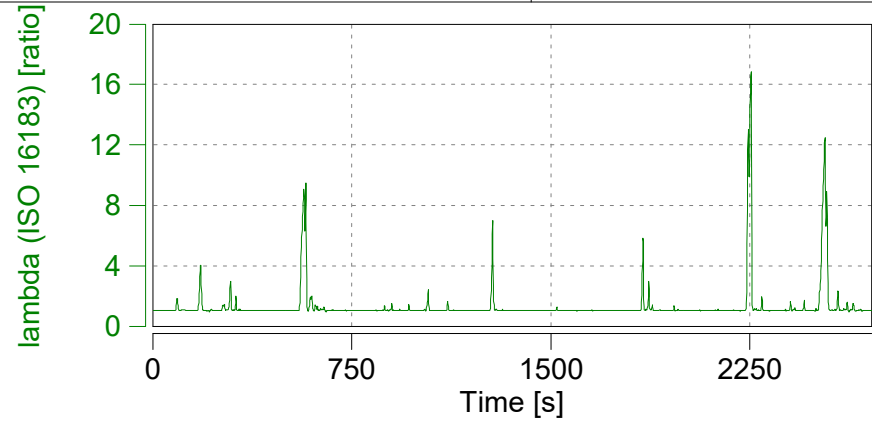
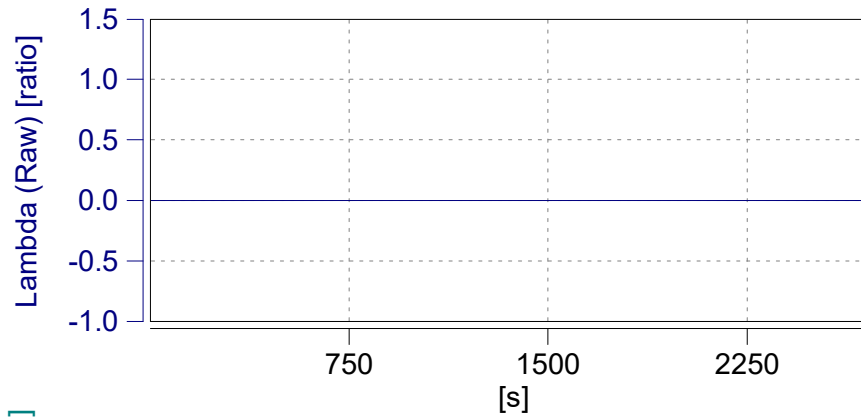
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

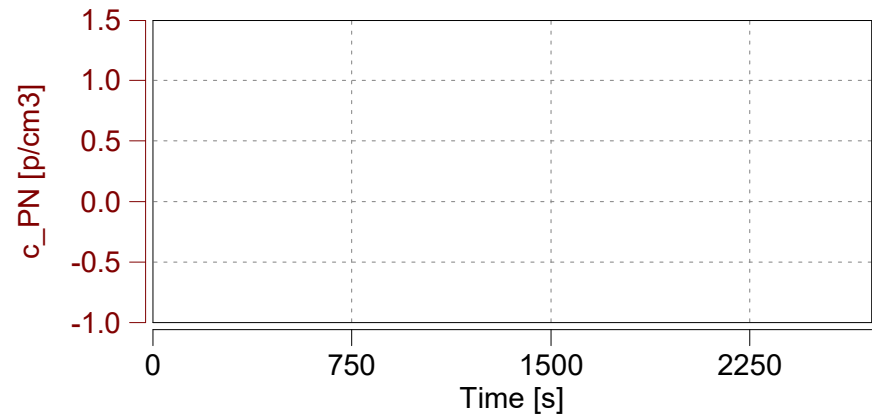
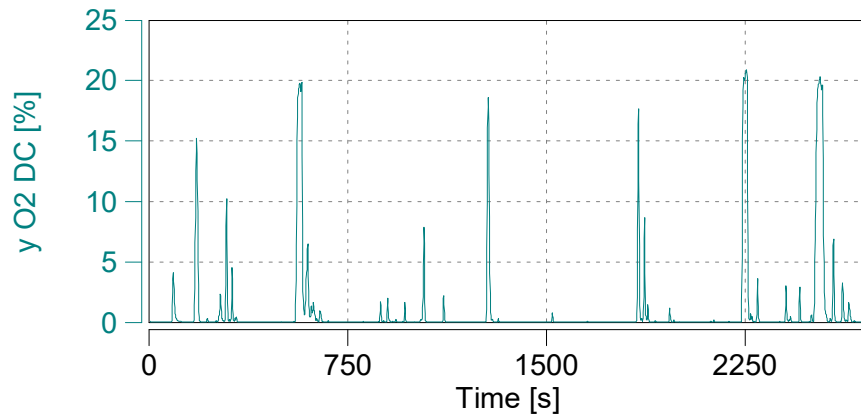
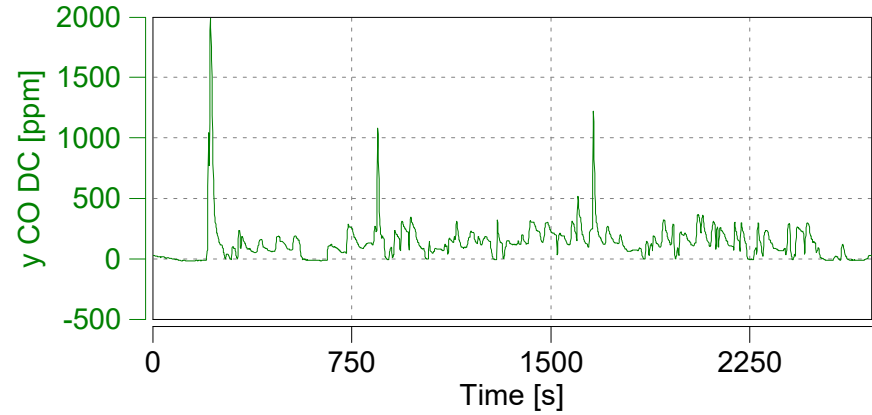
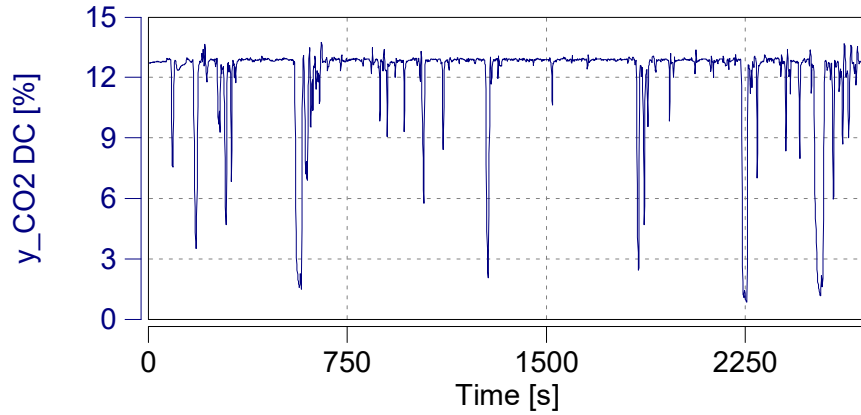
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (2)

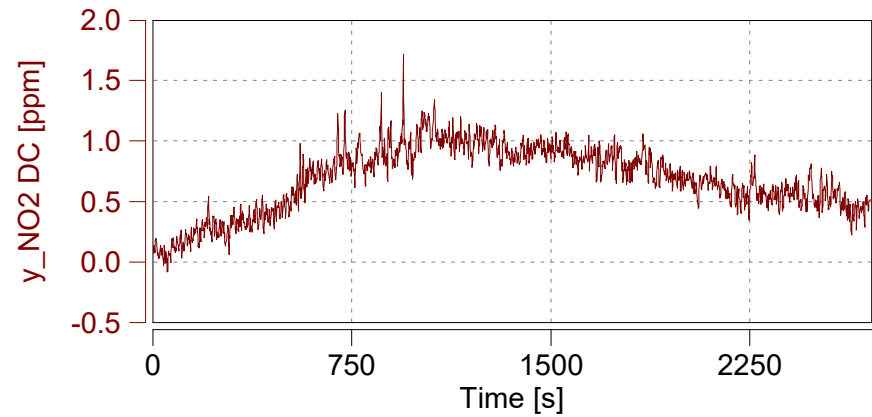
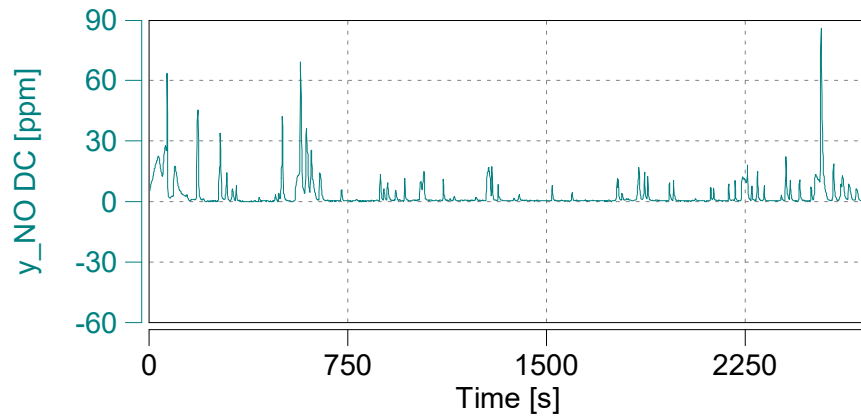
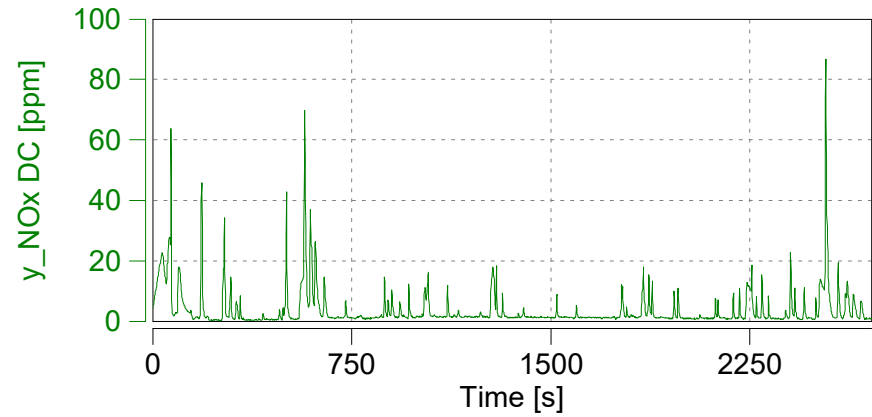
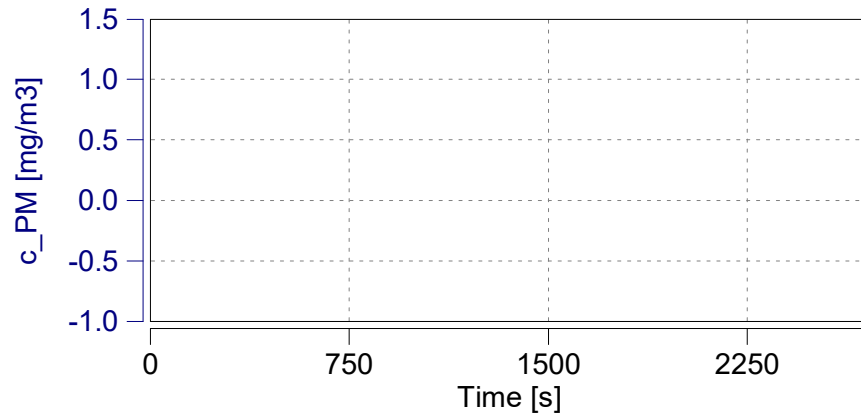
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0

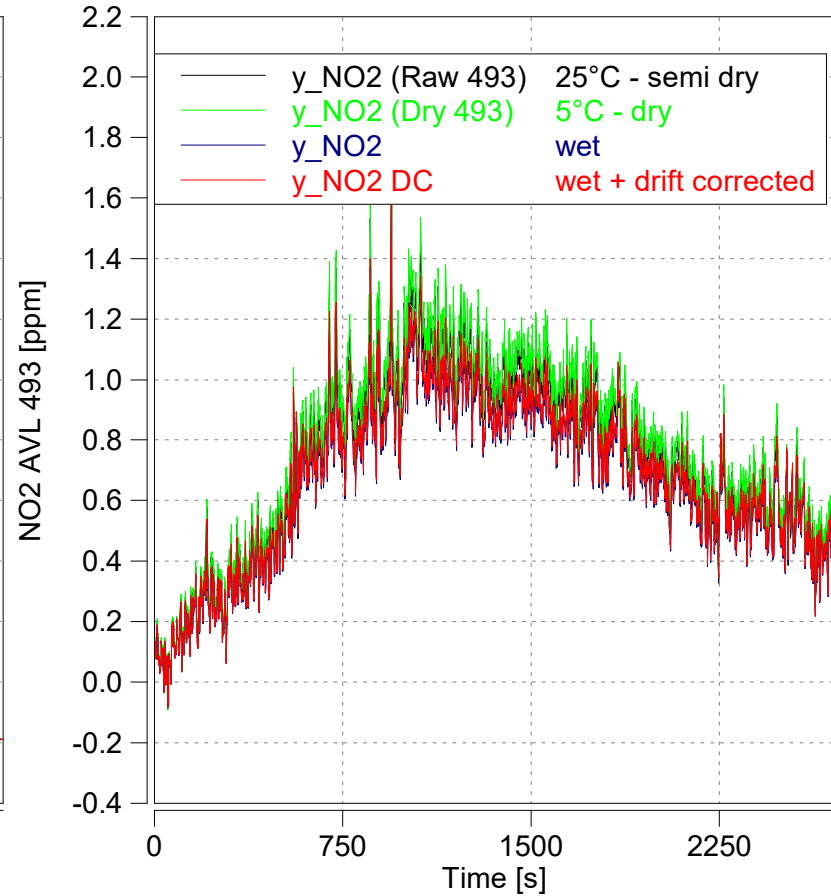
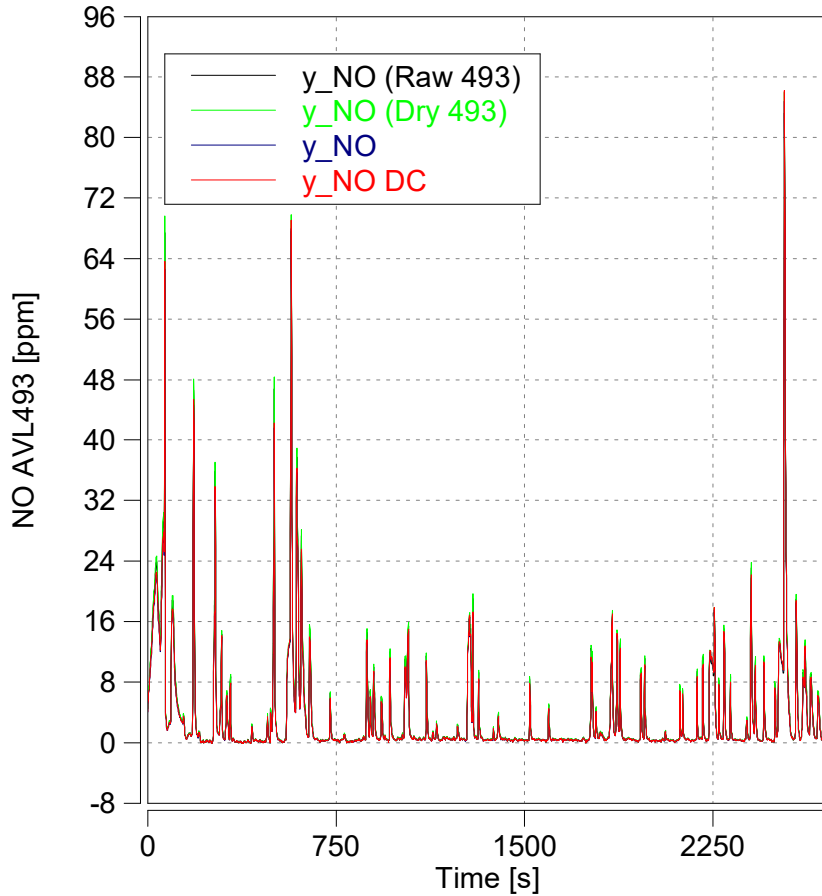


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

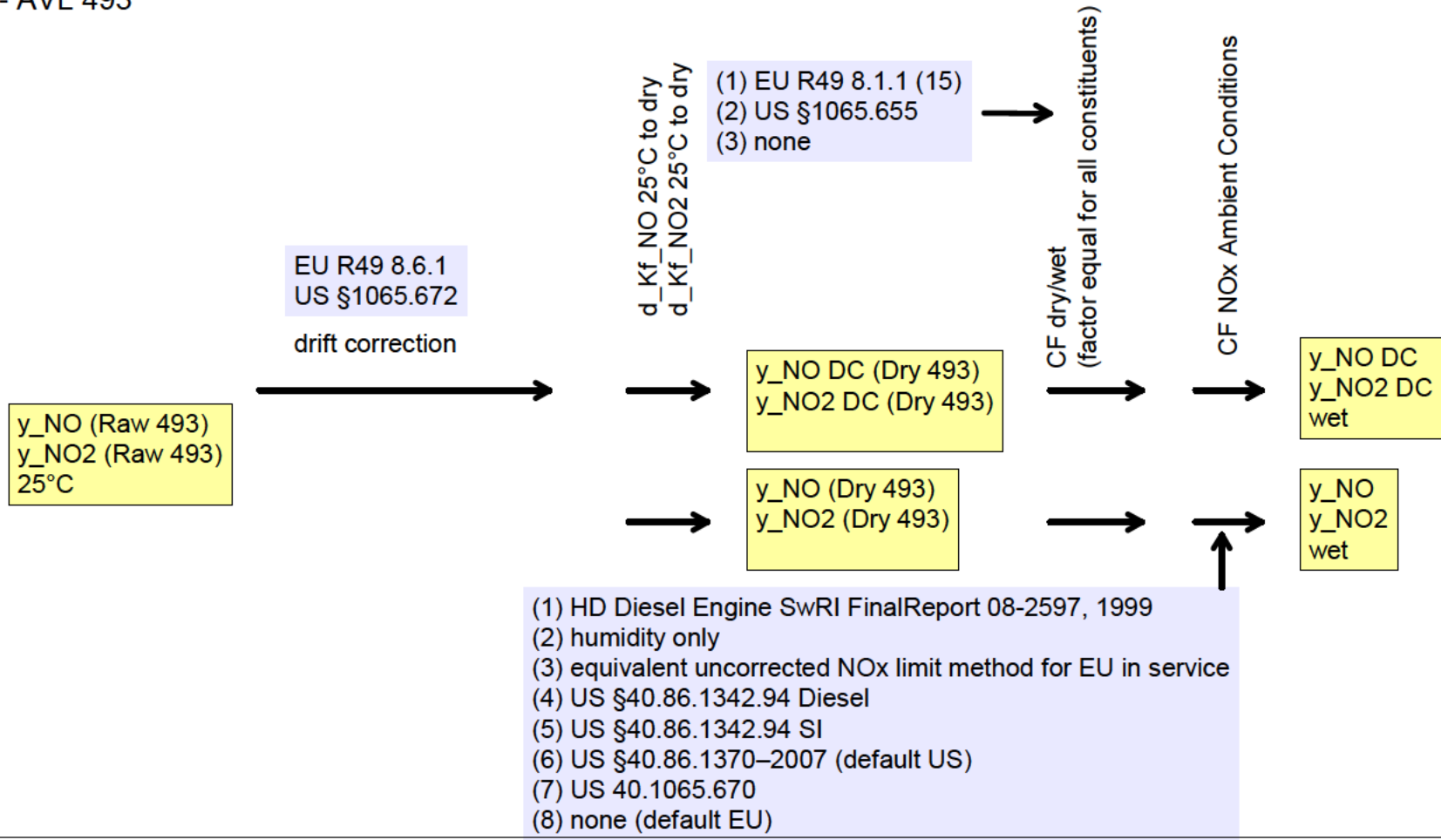


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

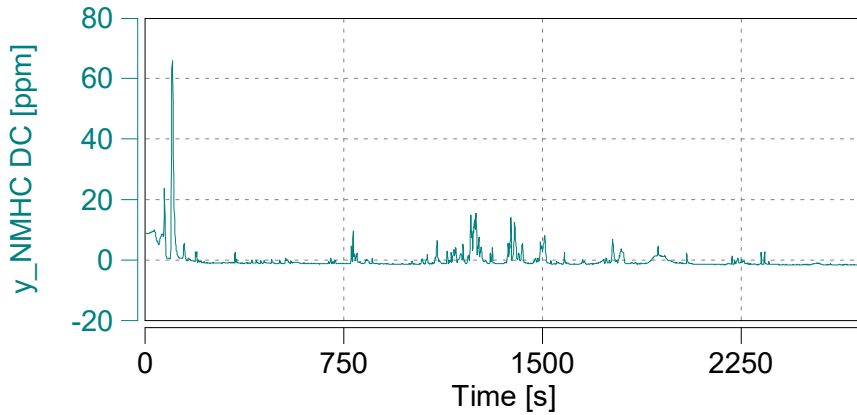
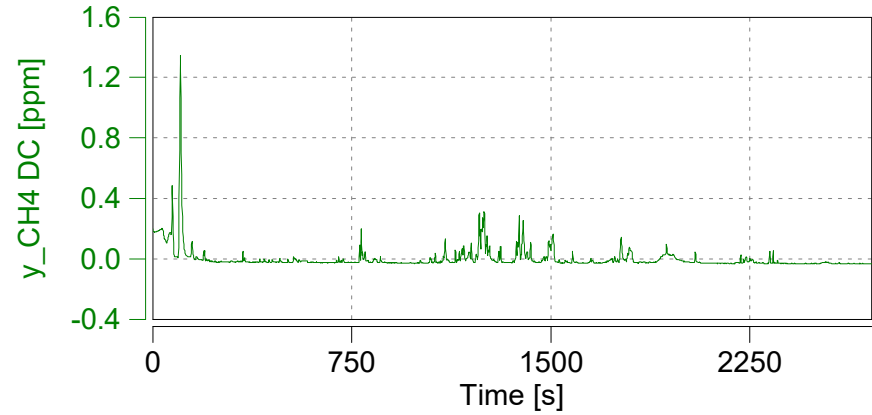
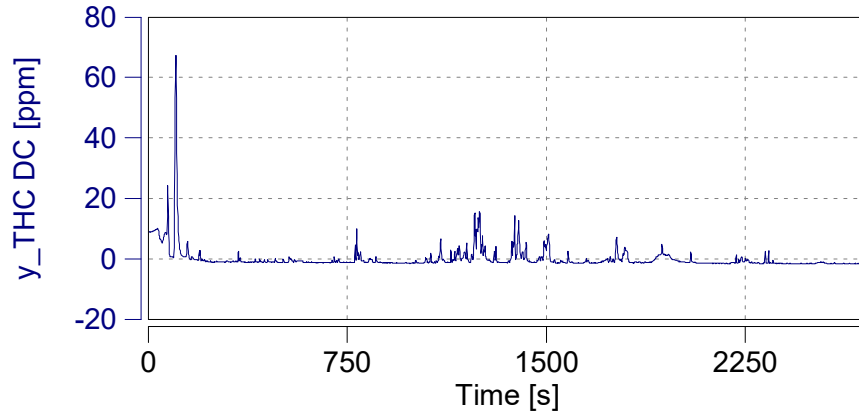
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

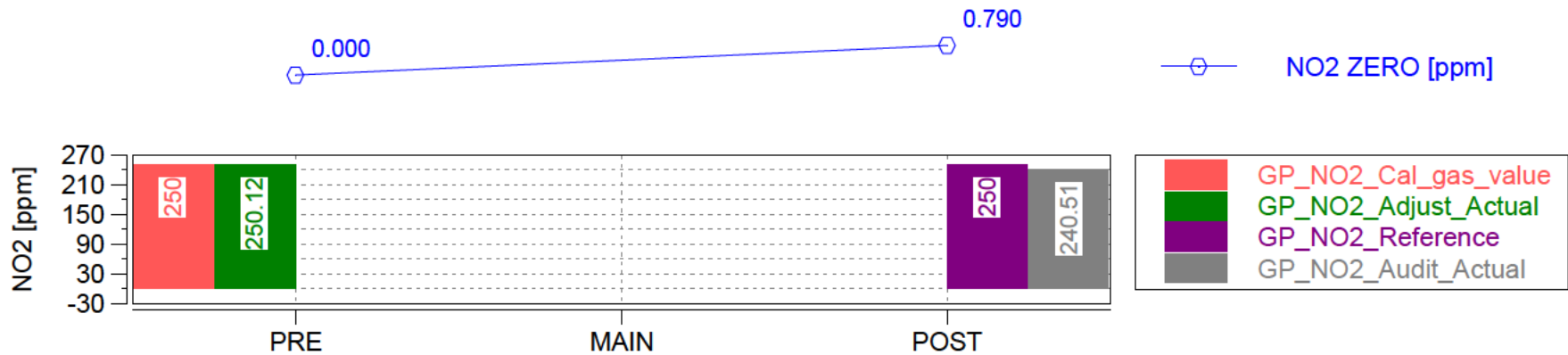
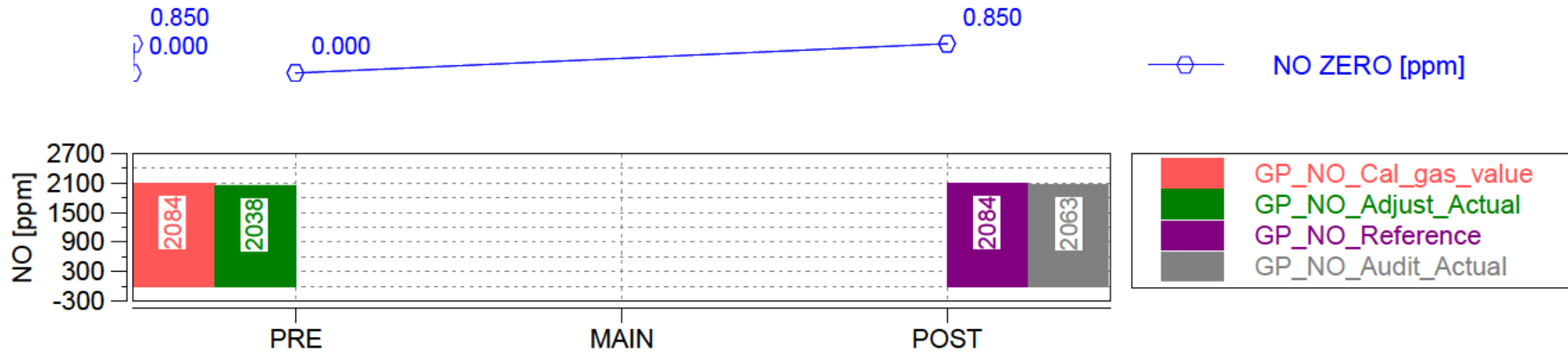
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

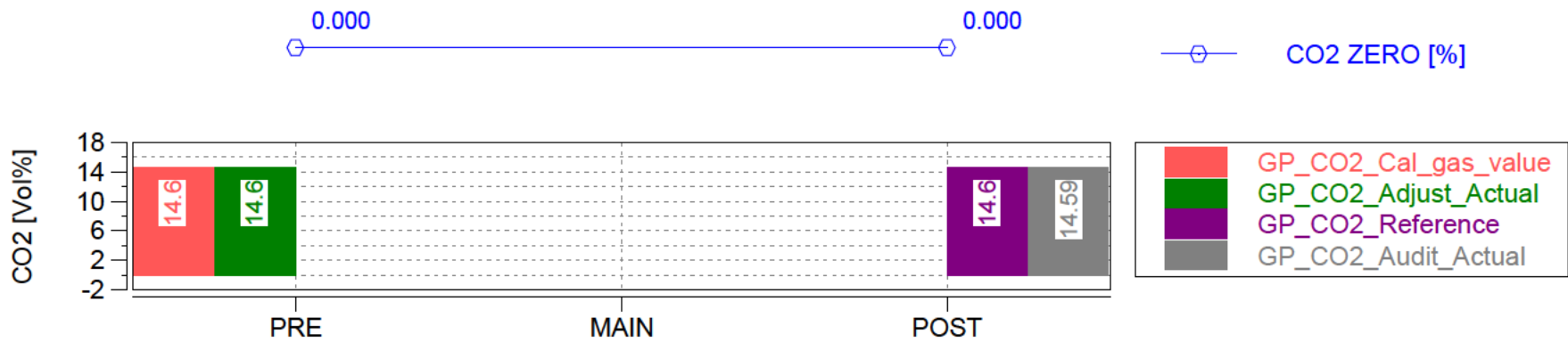
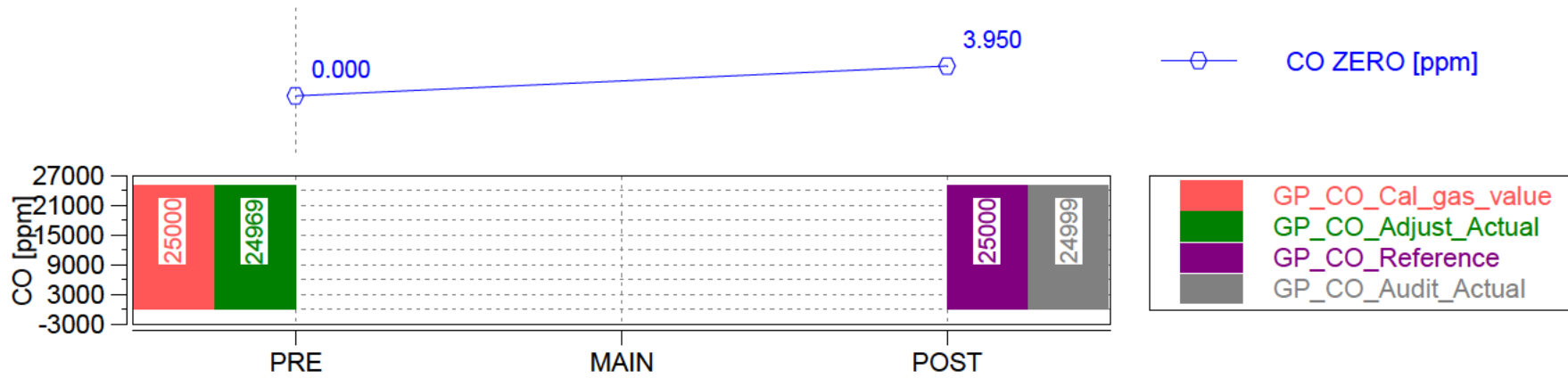
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

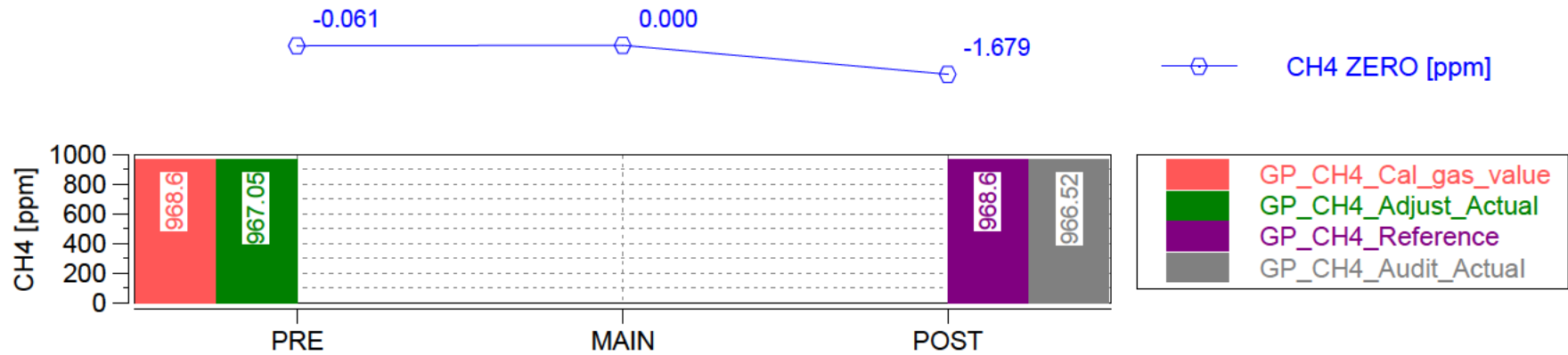
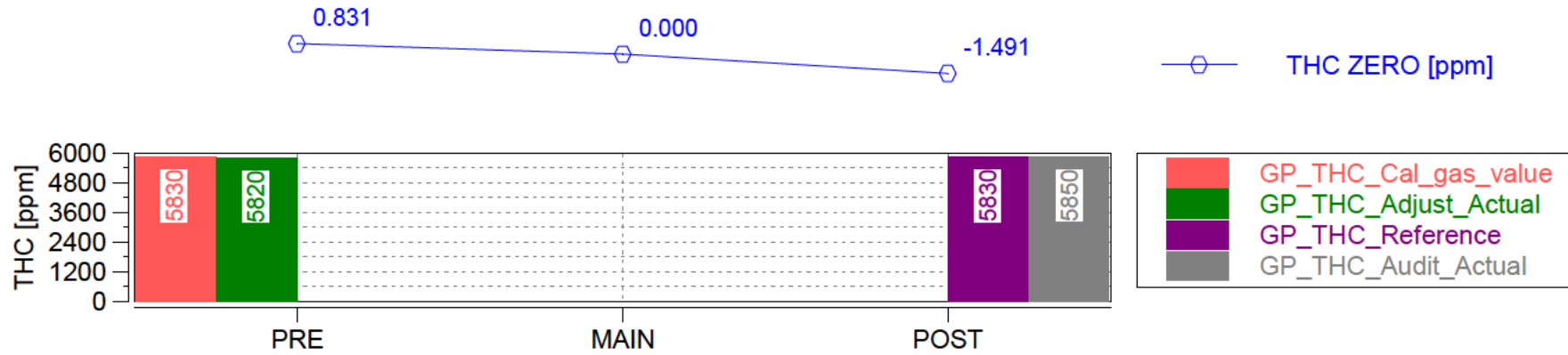
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 07/22/2019
Start Time: 13:46:02.0



Trip Duration	3226.00	s	ave THC	2.14299	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3226.00	s	ave NMHC	2.10013	ppm	BS CO	n/a	g/hphr
Trip Distance	27.96	mi	ave CH4	0.04286	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	27.96	mi	ave CO	67.26634	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	10.21911	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	5.12080	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.18	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.13	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.48	gall	tot THC	0.09827	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.46	gall	tot NMHC	0.09090	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00218	g	DS CO2	449.39028	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	7.39580	g	DS CO	0.26452	g/mi
Trip Fuel Economy EU (ac)	18.93	mpg_US	tot CO2	12564.78317	g	DS THC	0.00351	g/mi
Trip Fuel Economy US (ac)	19.14	mpg_US	tot NO (d)	0.18612	g	DS NMHC	0.00325	g/mi
Trip Av. Eng. Speed	1539.70	rpm	tot NO2	0.13455	g	DS CH4	0.00008	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.32068	g	DS NO (d)	0.00666	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00481	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01147	g/mi
Trip Exhaust Mass	70.54	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	82.18	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	45.84	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	31.20107	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	12.27526	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Trip Duration	3226.00	s	ave THC DC	1.72604	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3226.00	s	ave NMHC DC	1.69152	ppm	BS CO DC	n/a	g/hphr
Trip Distance	27.96	mi	ave CH4 DC	0.03452	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	27.96	mi	ave CO DC	67.30982	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	10.22261	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	5.20764	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.18	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.13	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.48	gall	tot THC DC	0.08357	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.46	gall	tot NMHC DC	0.07731	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00185	g	DS CO2 DC	449.54423	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	7.40058	g	DS CO DC	0.26469	g/mi
Trip Fuel Economy EU (ac)	18.93	mpg_US	tot CO2 DC	12569.08765	g	DS THC DC	0.00299	g/mi
Trip Fuel Economy US (ac)	19.14	mpg_US	tot NO DC (d)	0.18912	g	DS NMHC DC	0.00276	g/mi
Trip Av. Eng. Speed	1539.70	rpm	tot NO2 DC	0.13712	g	DS CH4 DC	0.00007	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.32624	g	DS NO DC (d)	0.00676	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00490	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.01167	g/mi
Trip Exhaust Mass	70.54	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	82.18	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	45.84	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	31.20107	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	12.27526	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

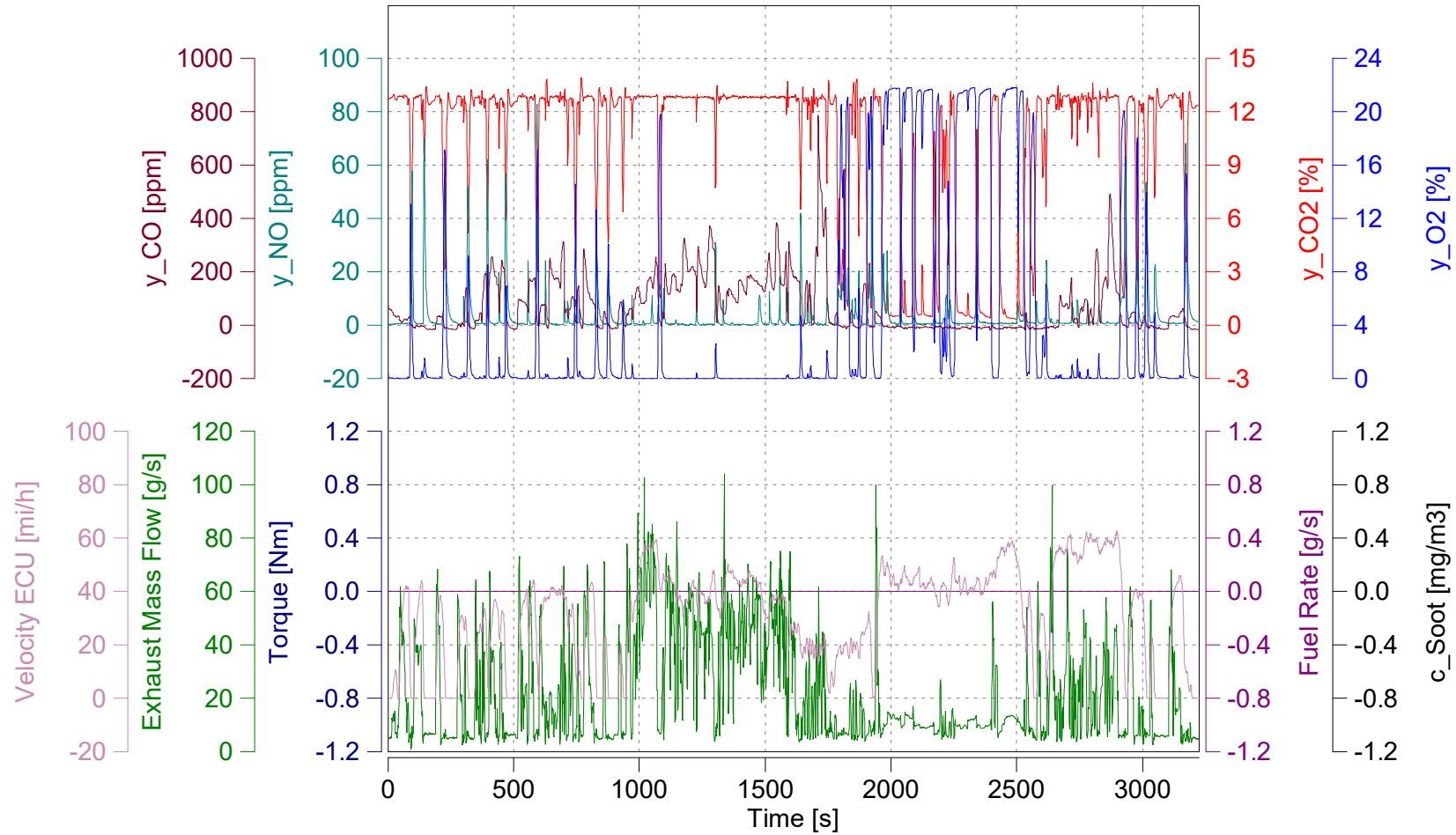
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Vehicle: Audi Q8 / 3.0L

Engine: /

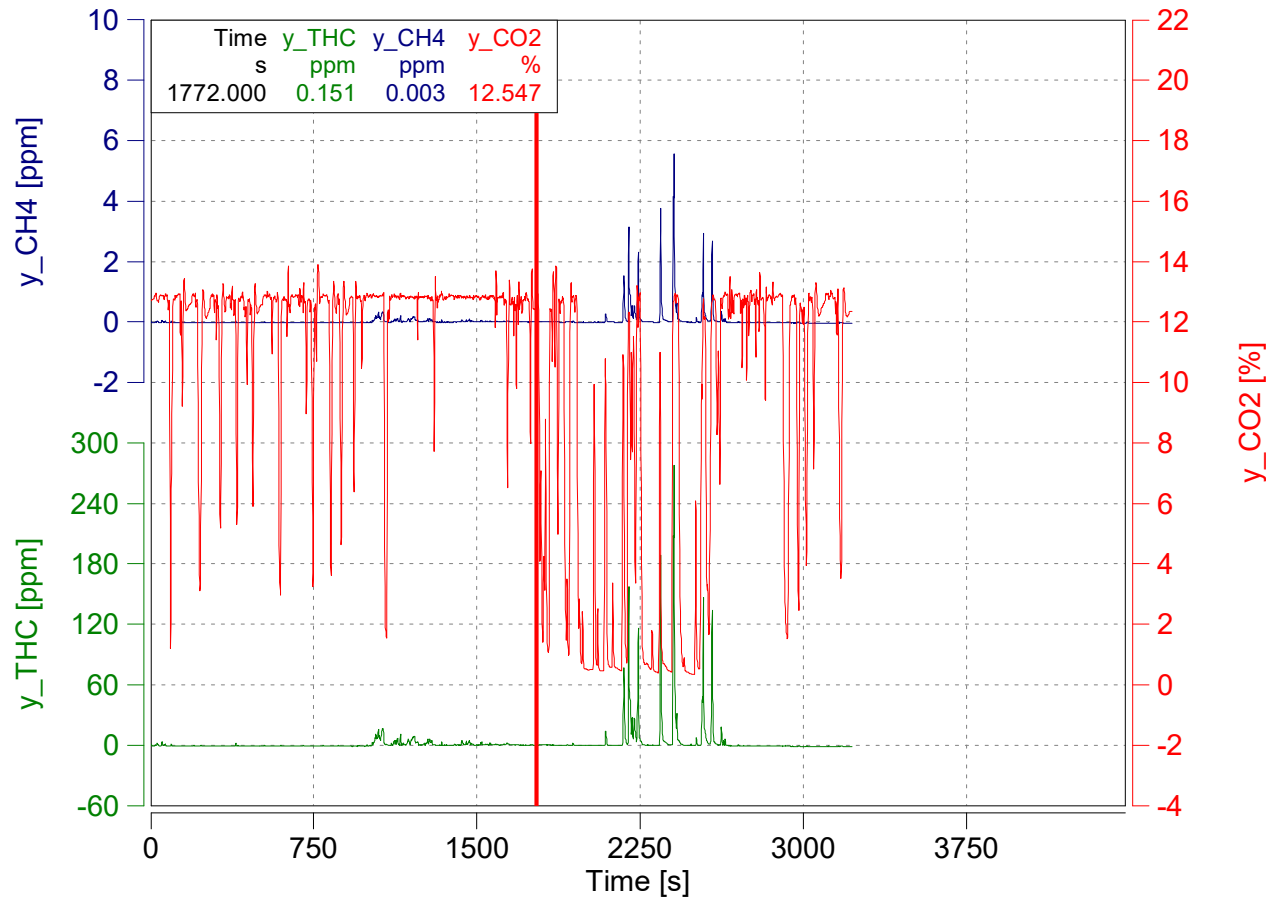
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

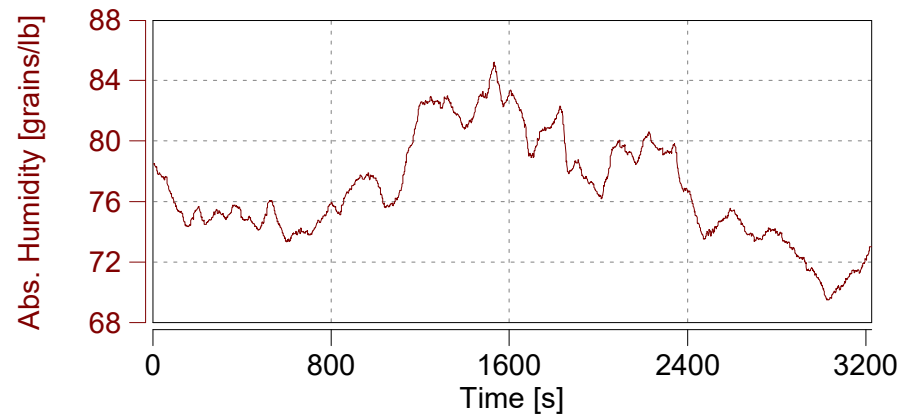
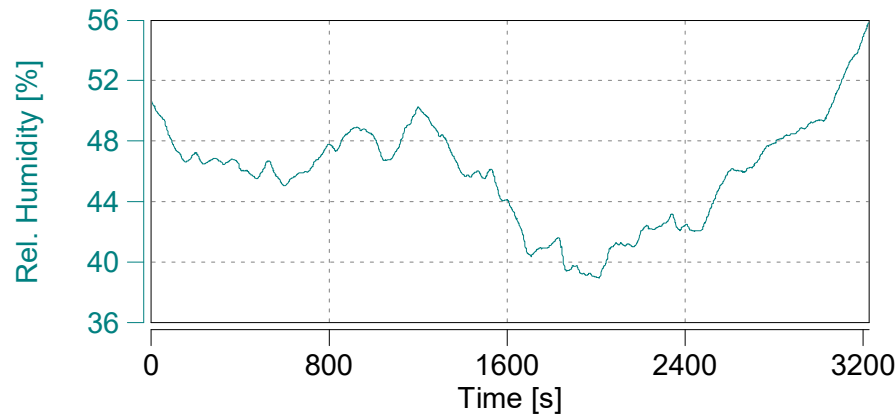
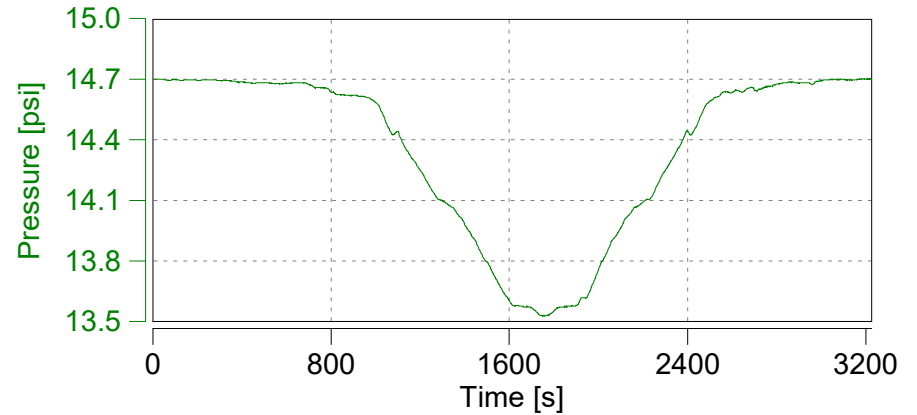
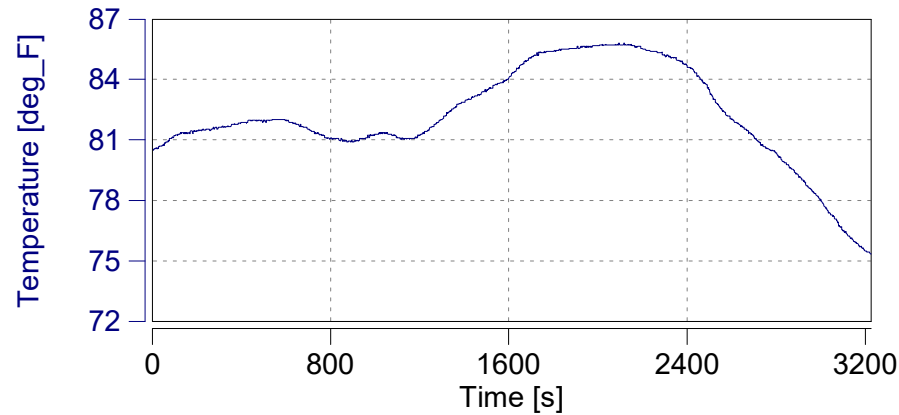


Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

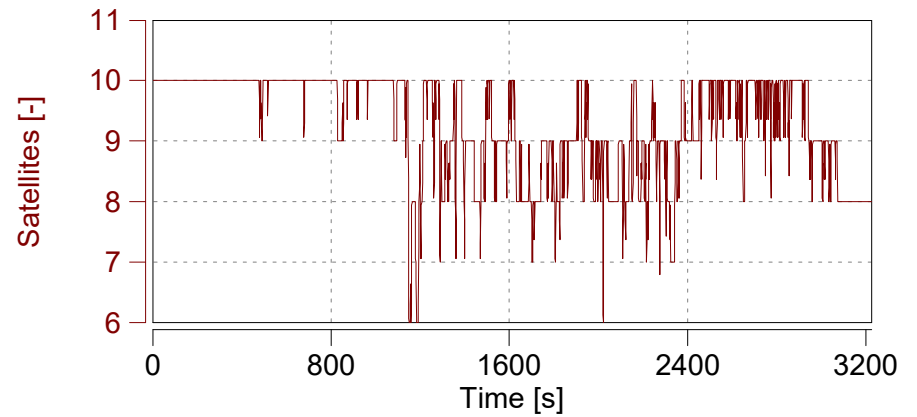
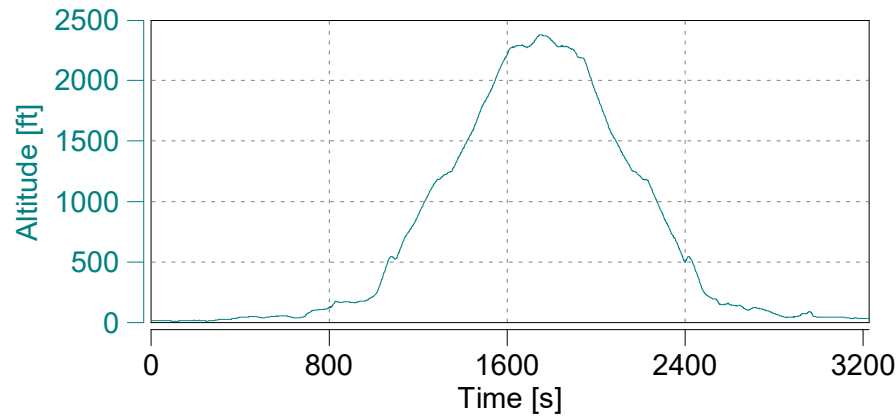
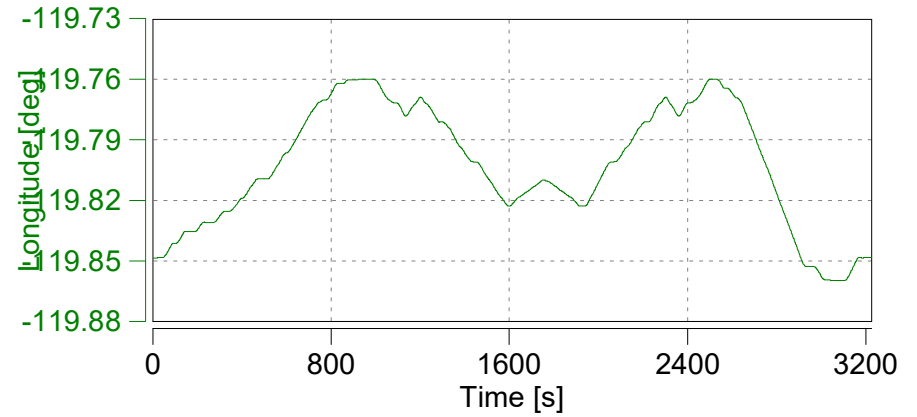
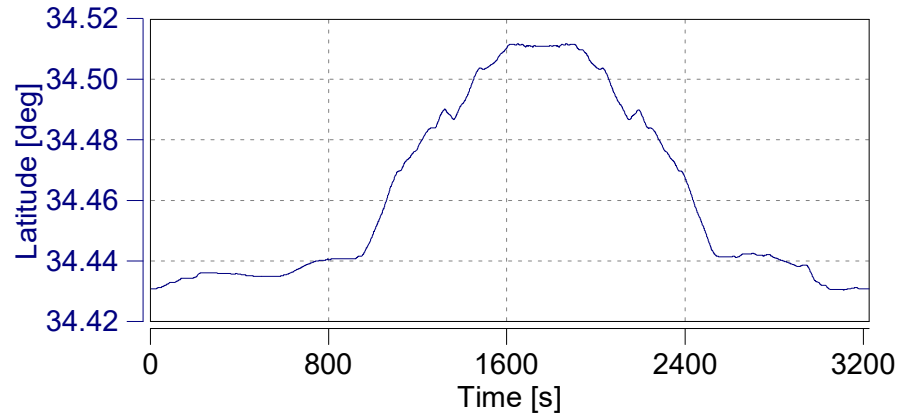
Reset Time Shifts in Plot

Apply Current Values



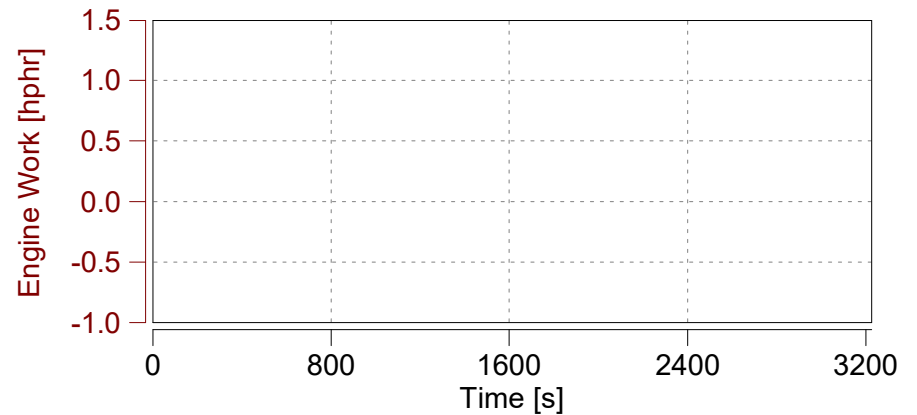
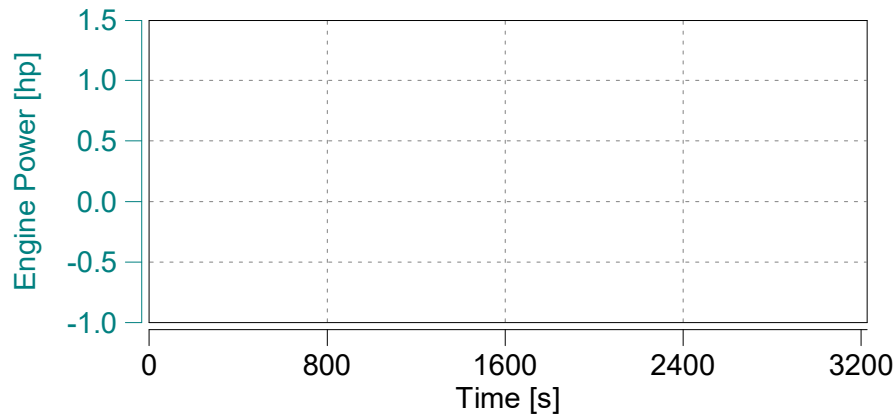
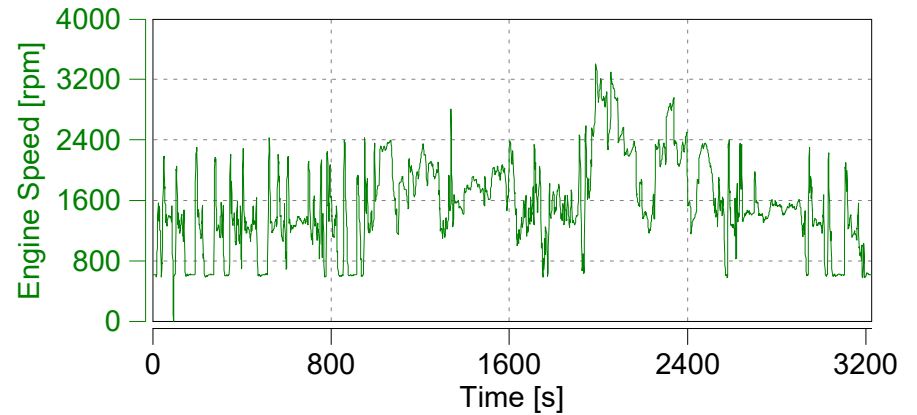
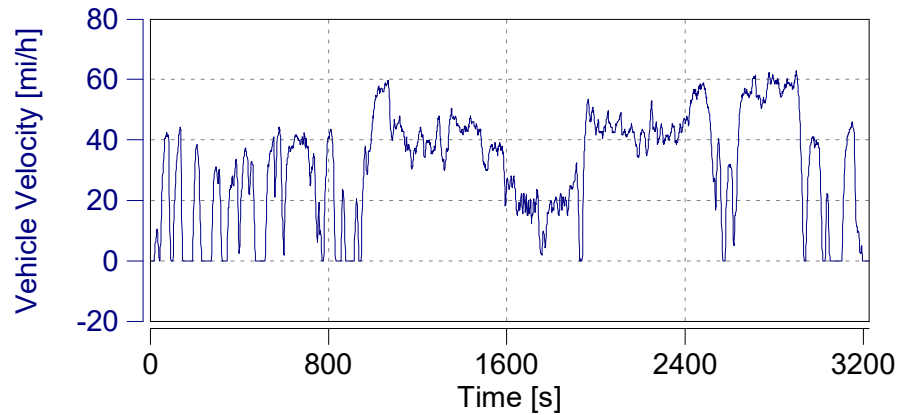
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



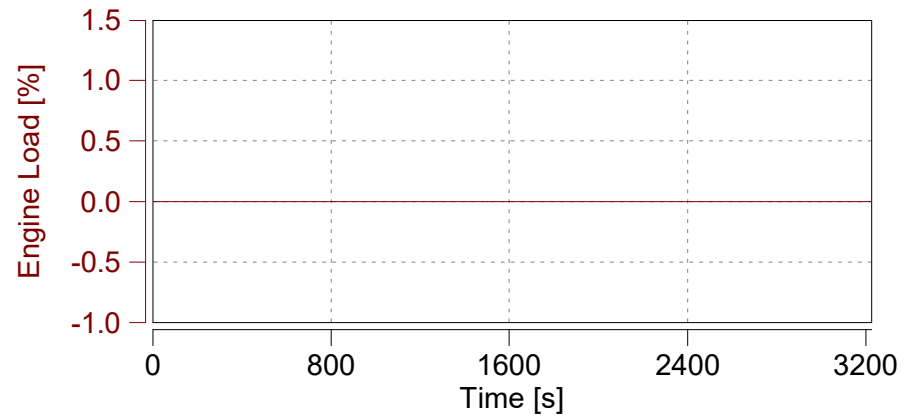
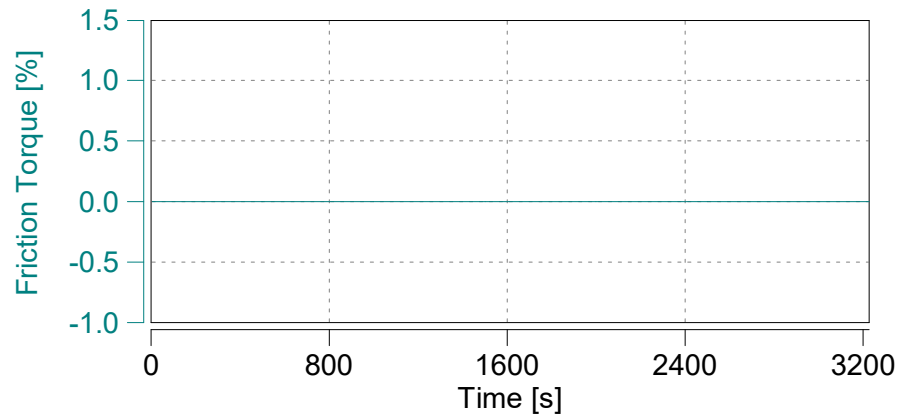
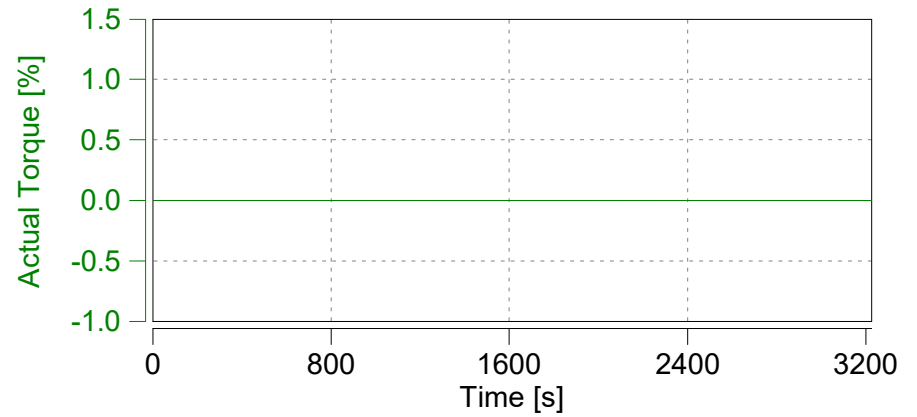
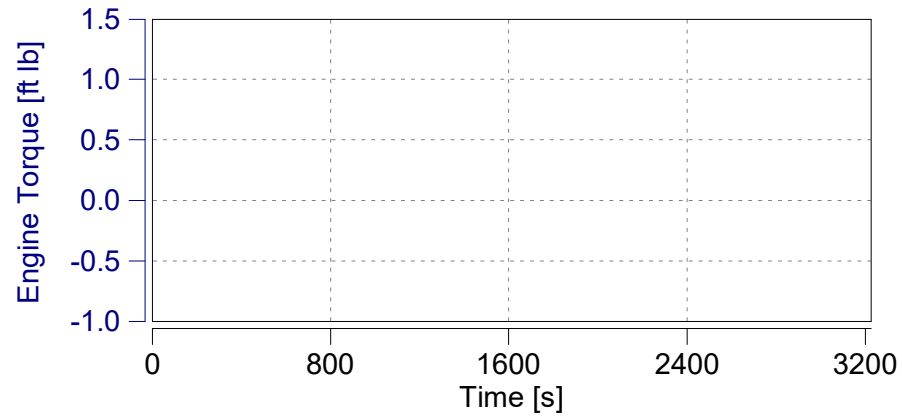
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



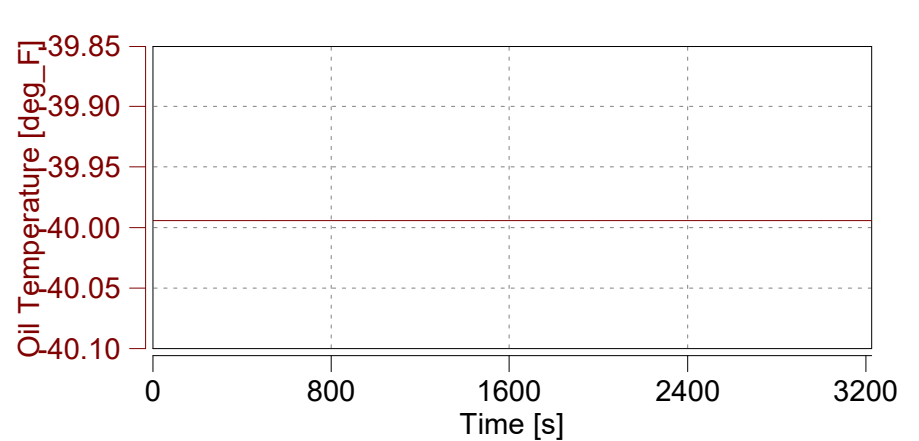
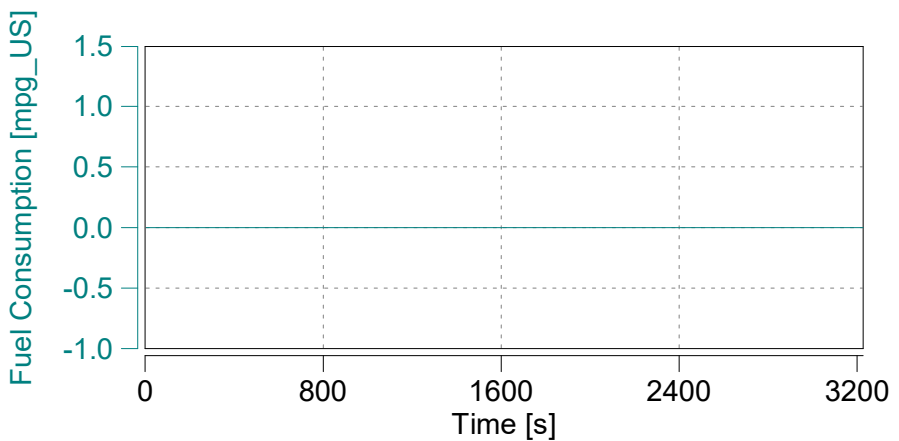
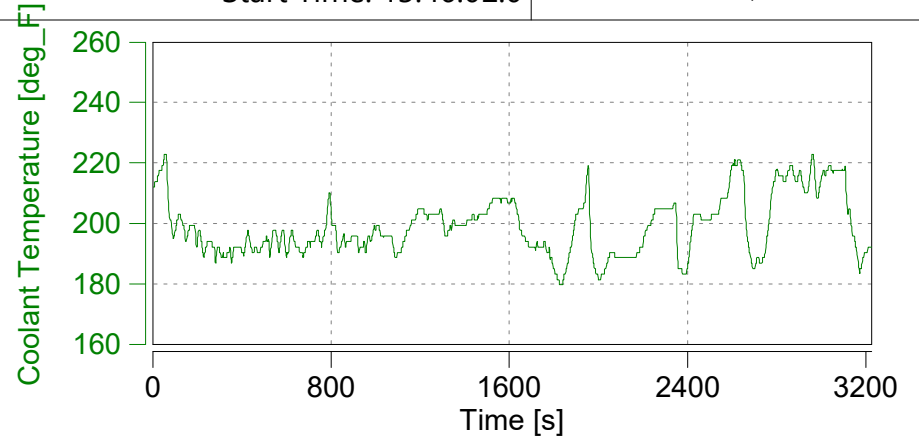
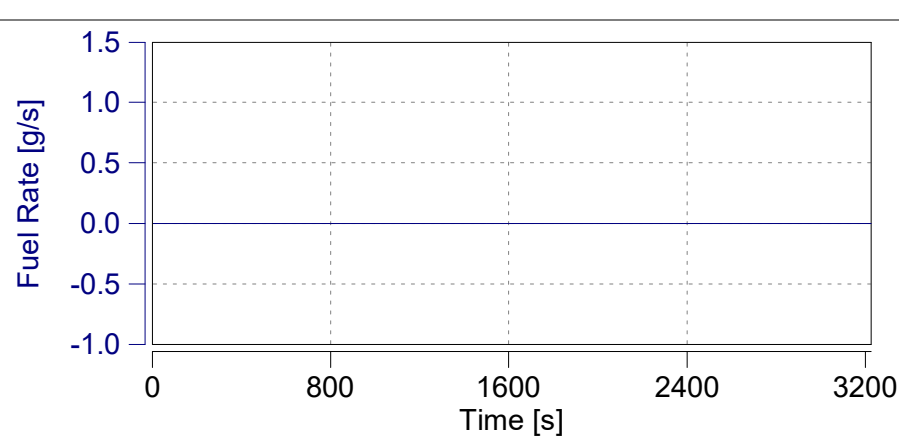
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



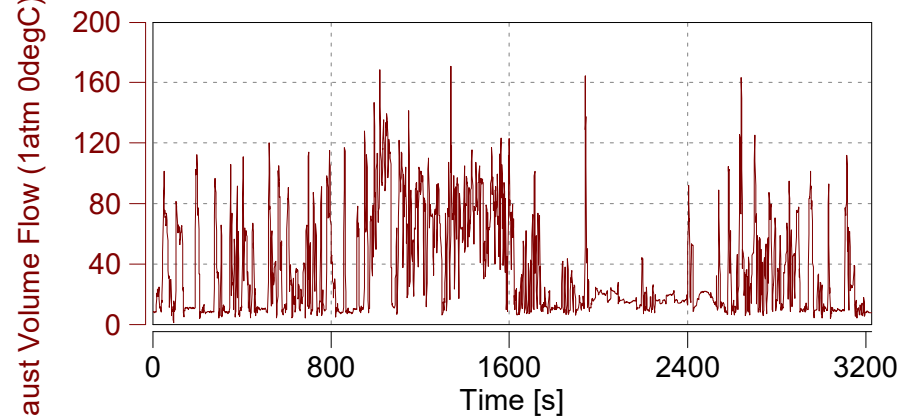
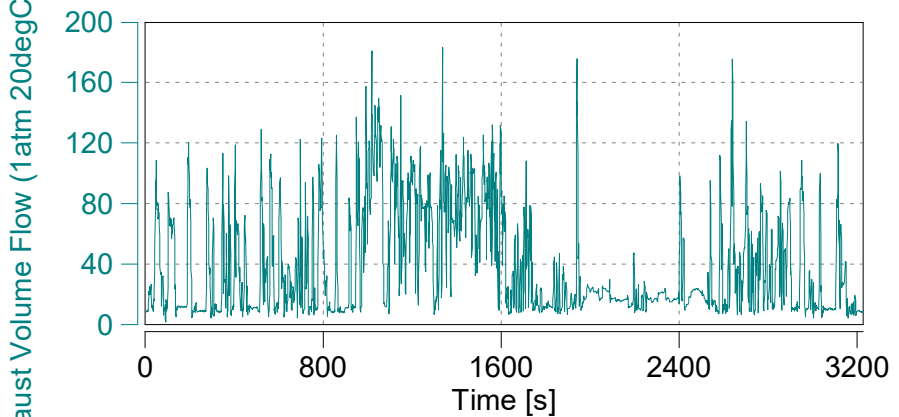
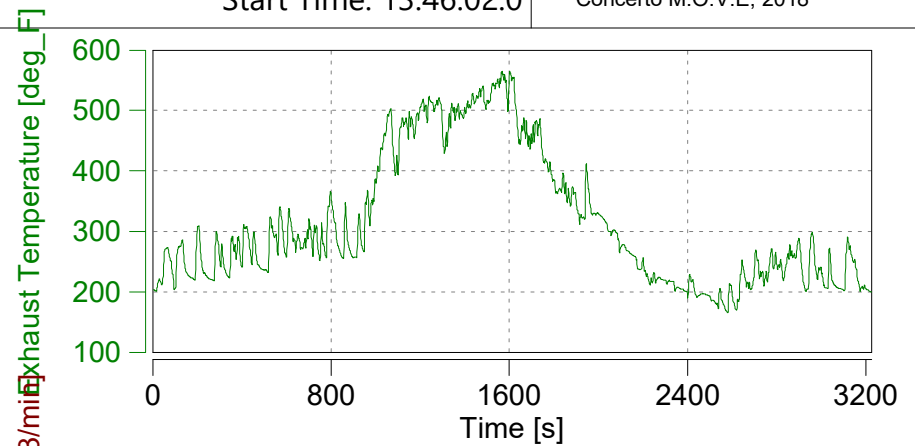
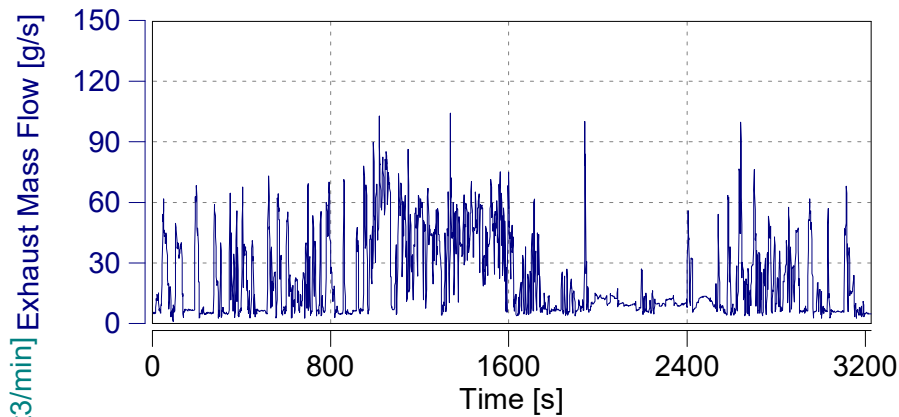
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



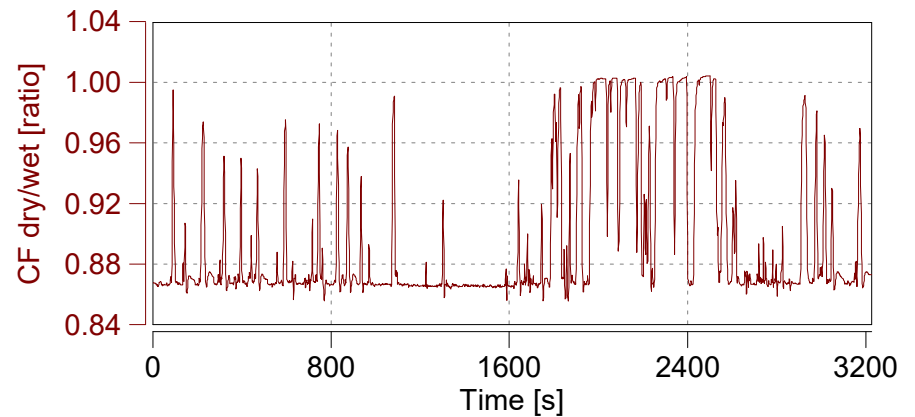
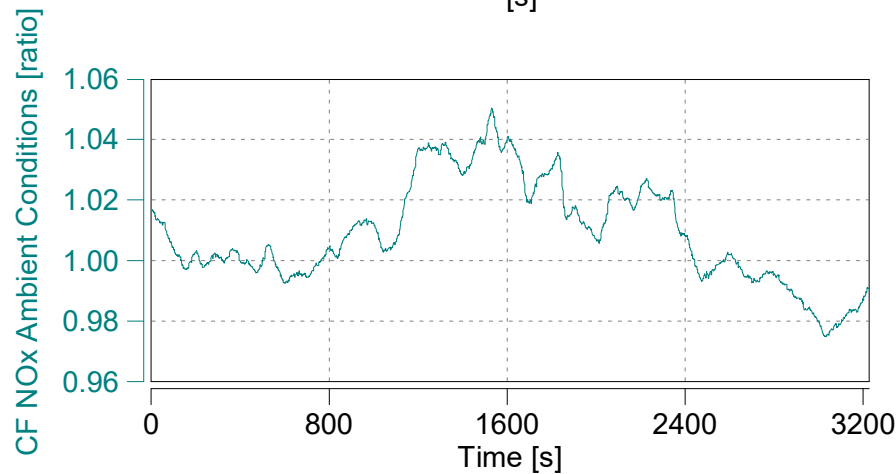
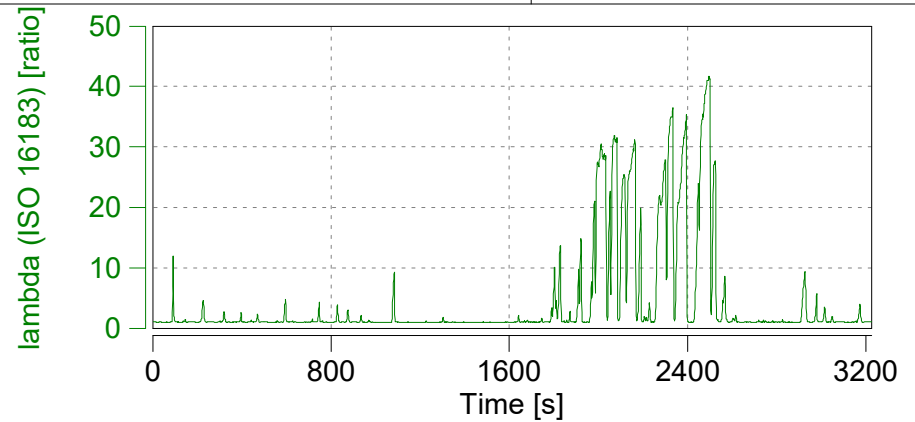
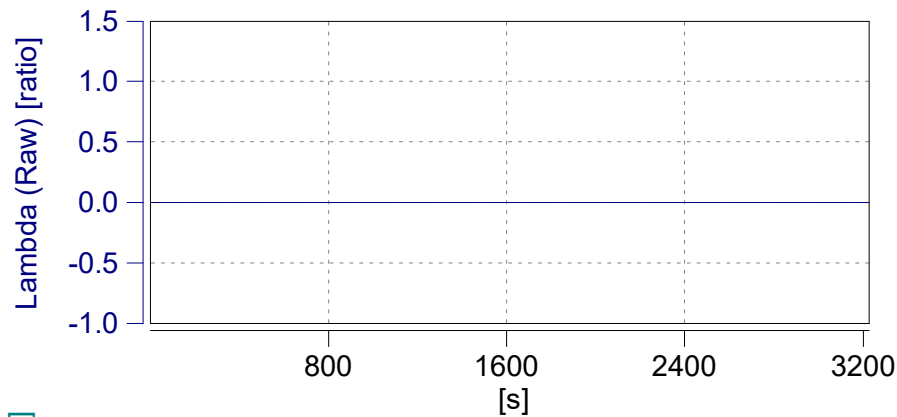
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



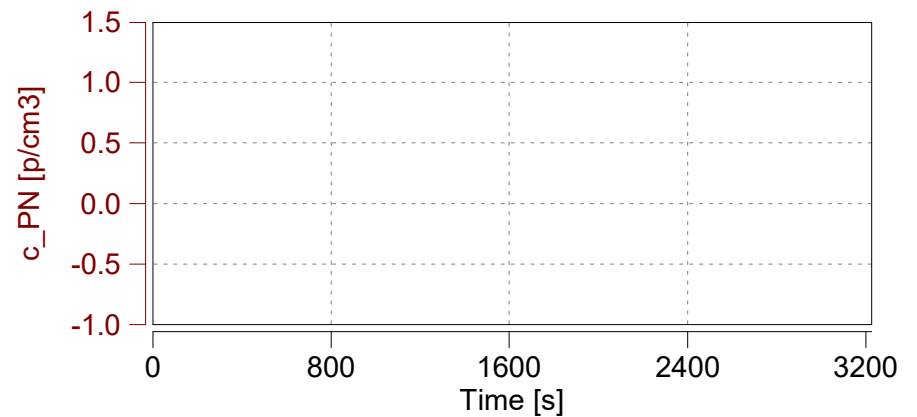
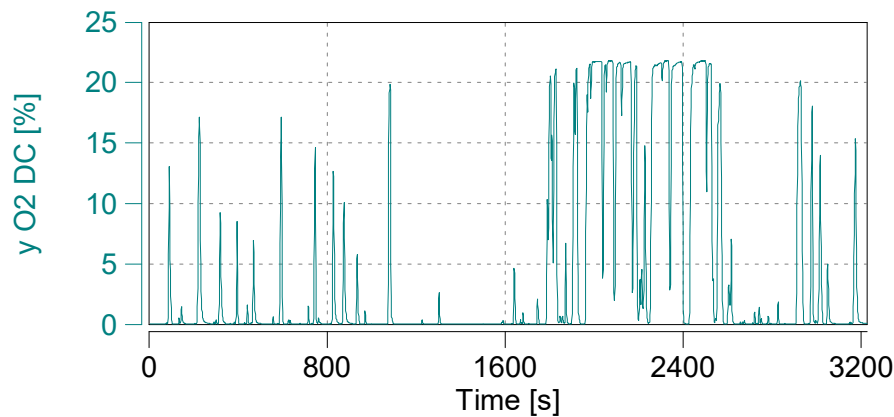
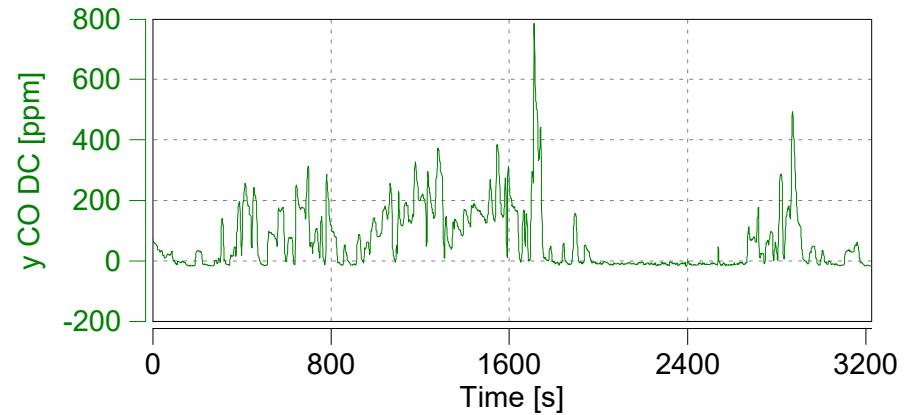
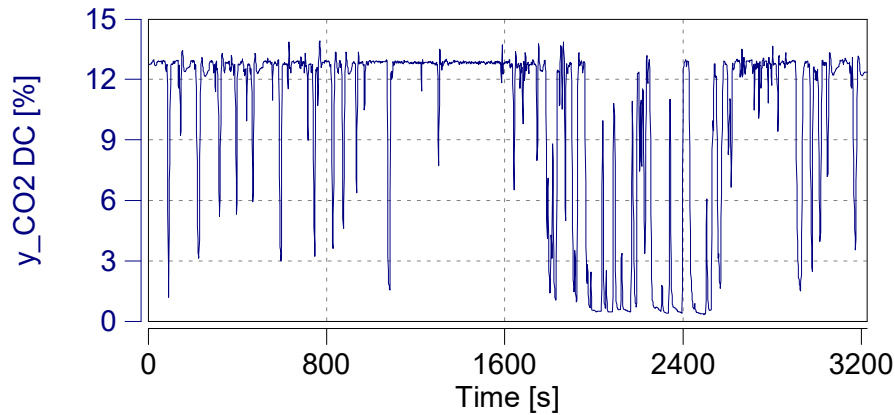
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



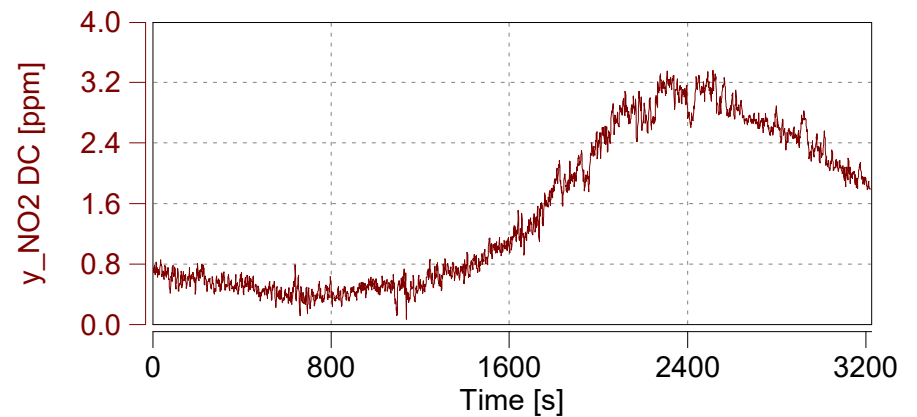
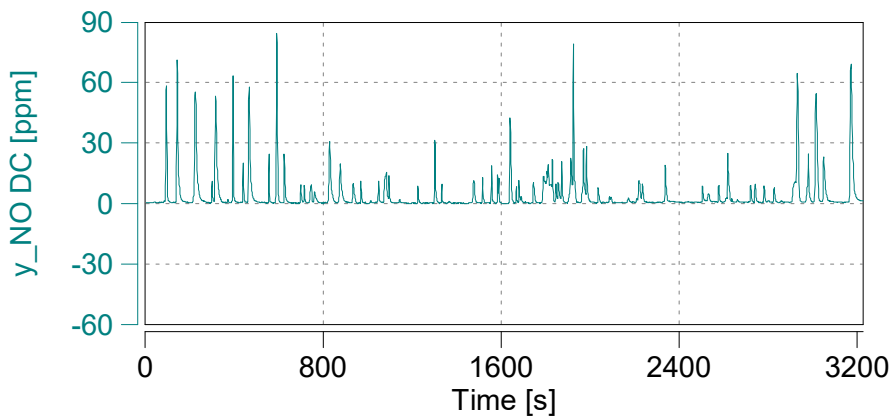
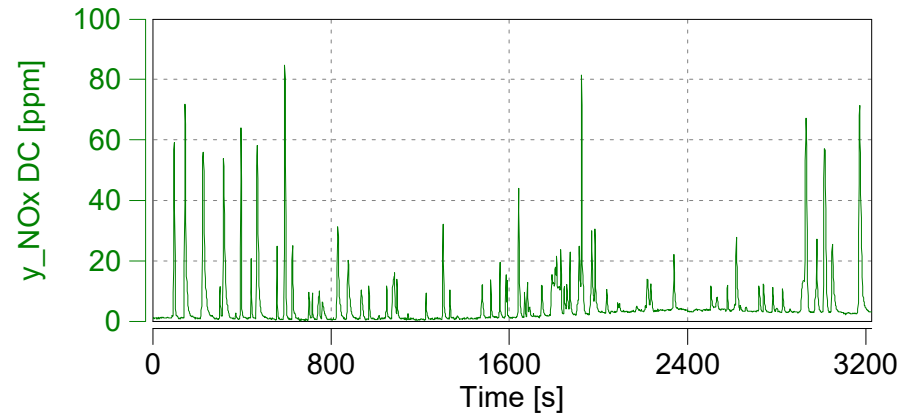
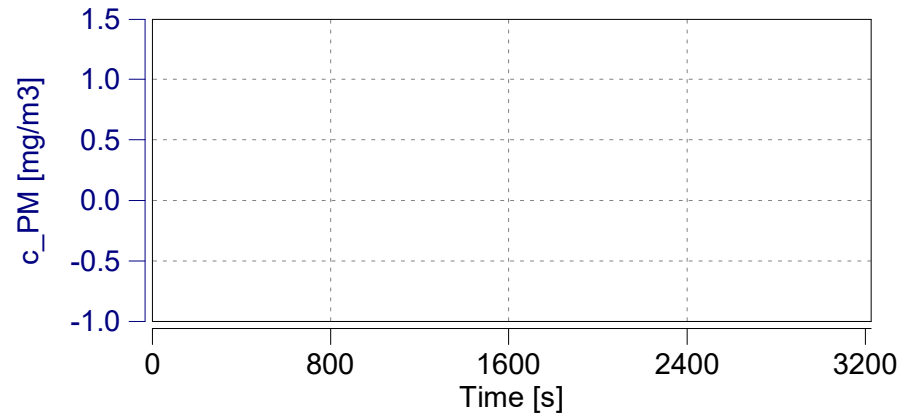
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



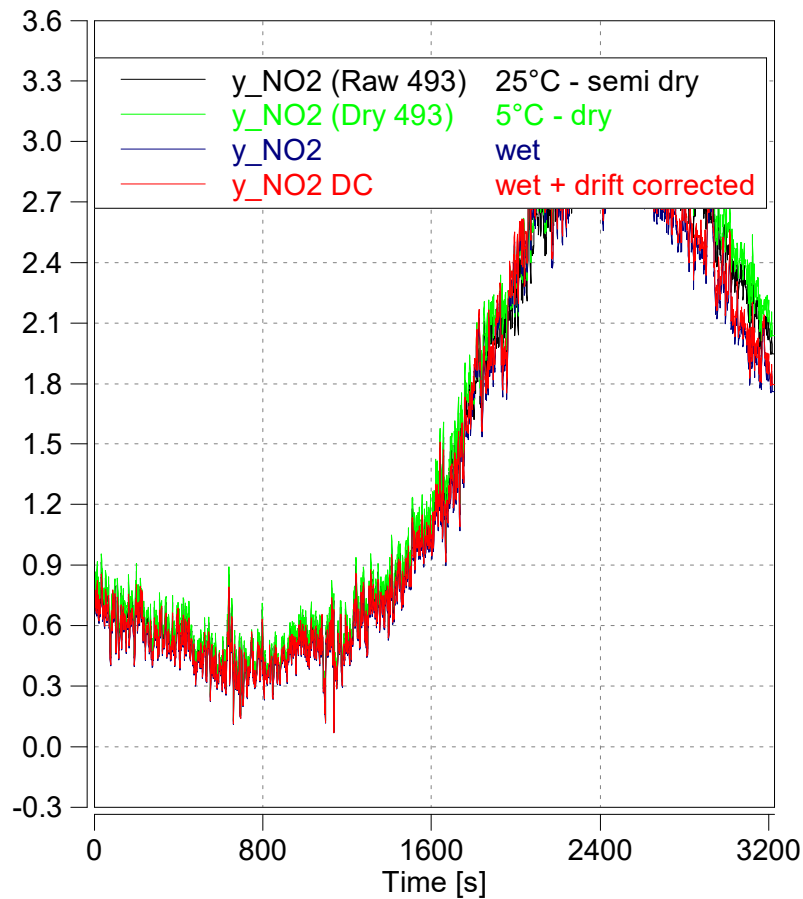
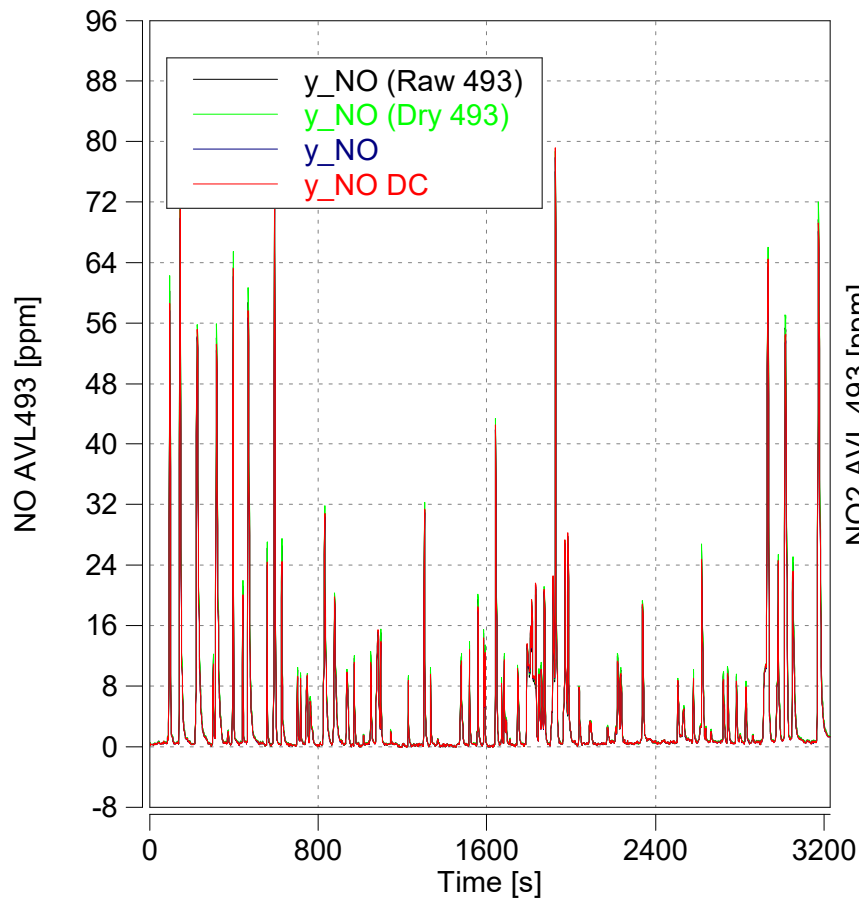
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Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

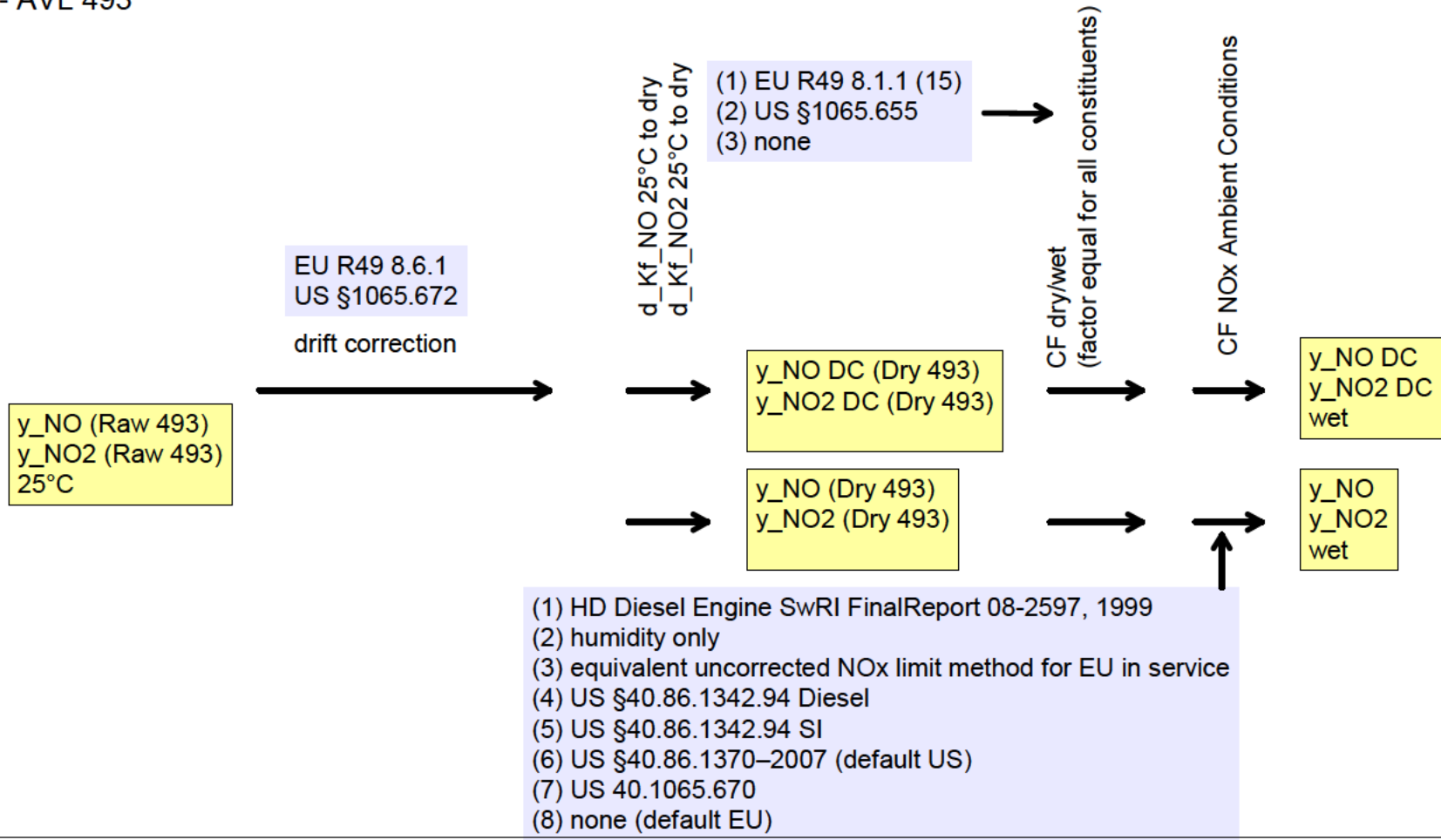


Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain

Page: Corrected Emissions (5)

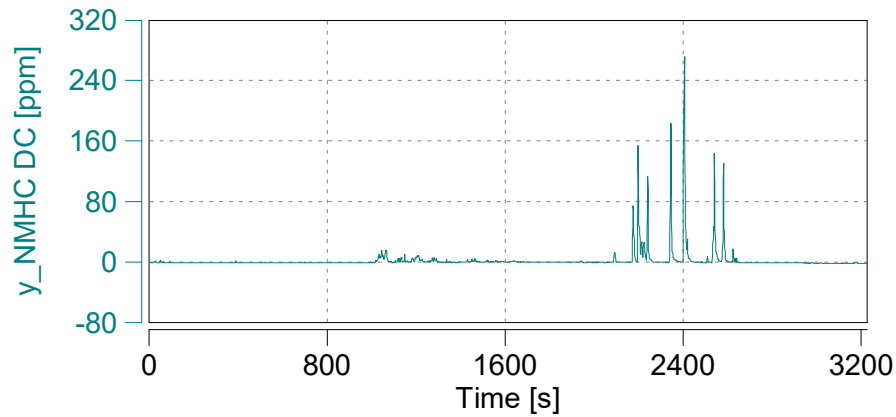
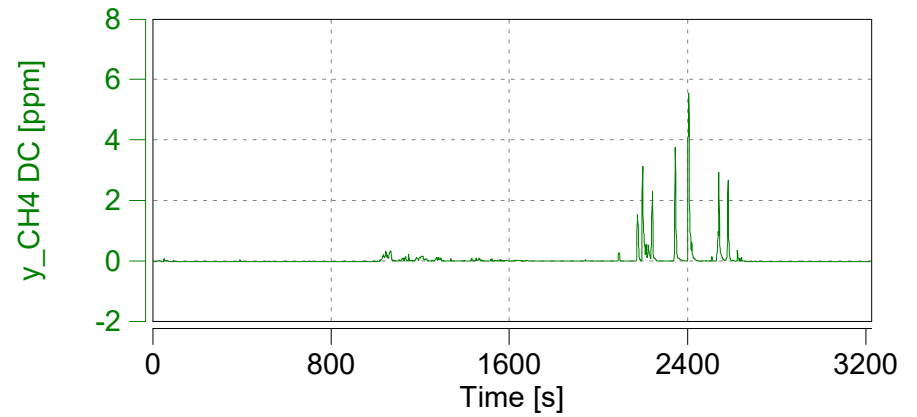
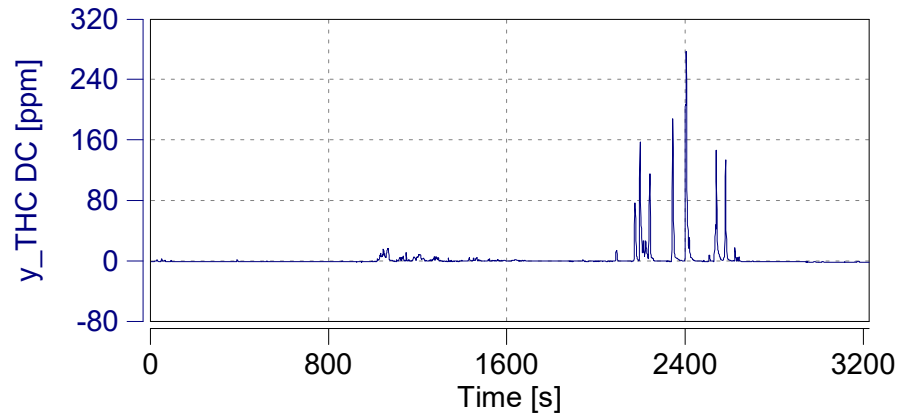
'Mountain'

Start Date: 07/22/2019

Start Time: 13:46:02.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

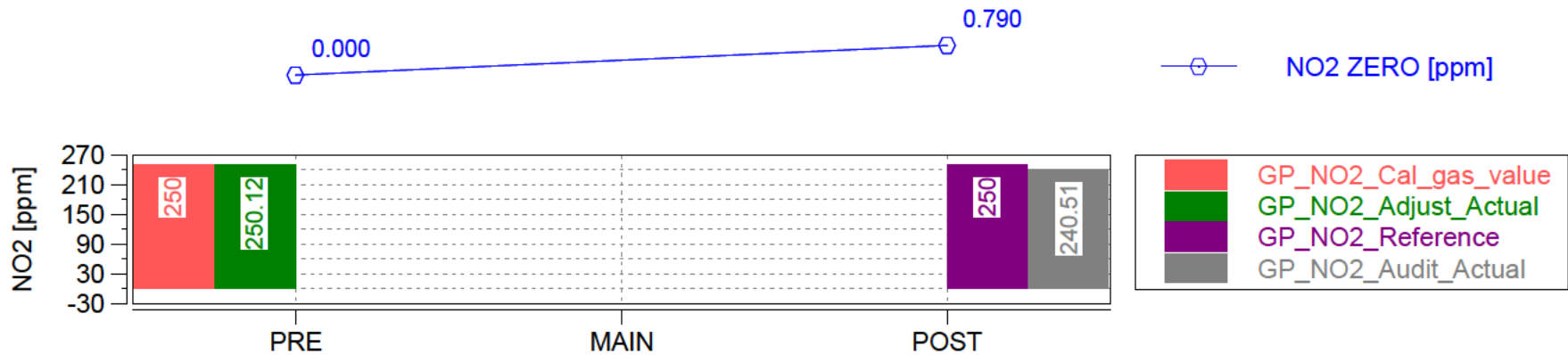
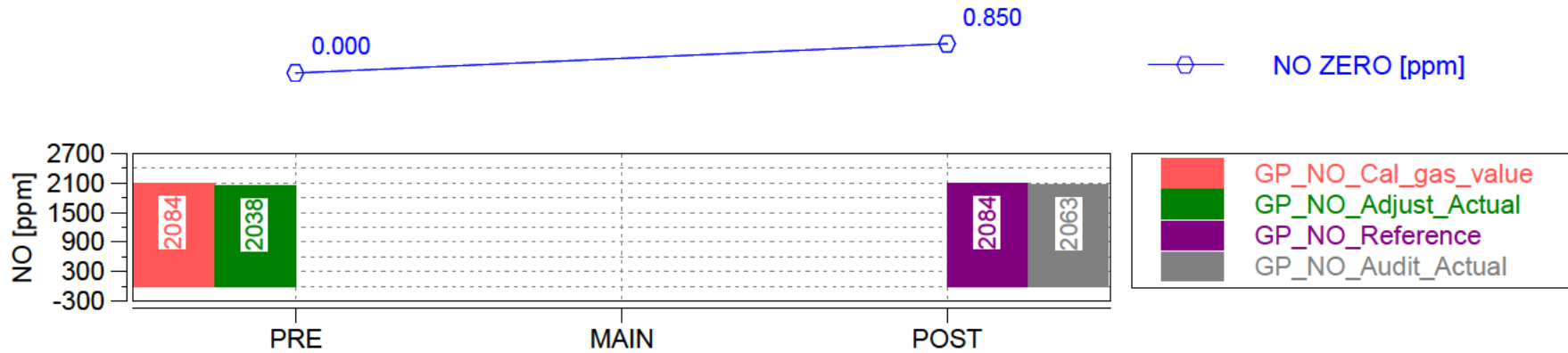
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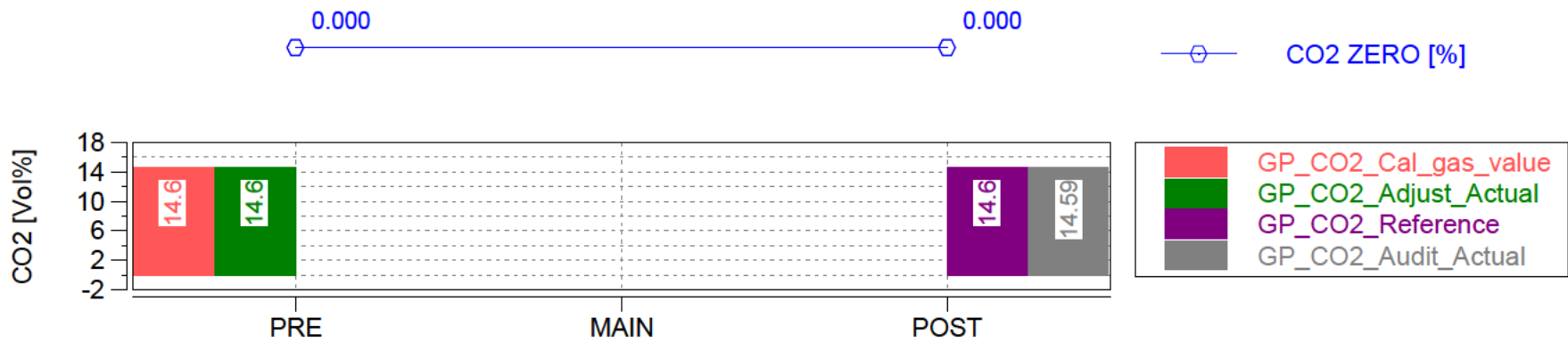
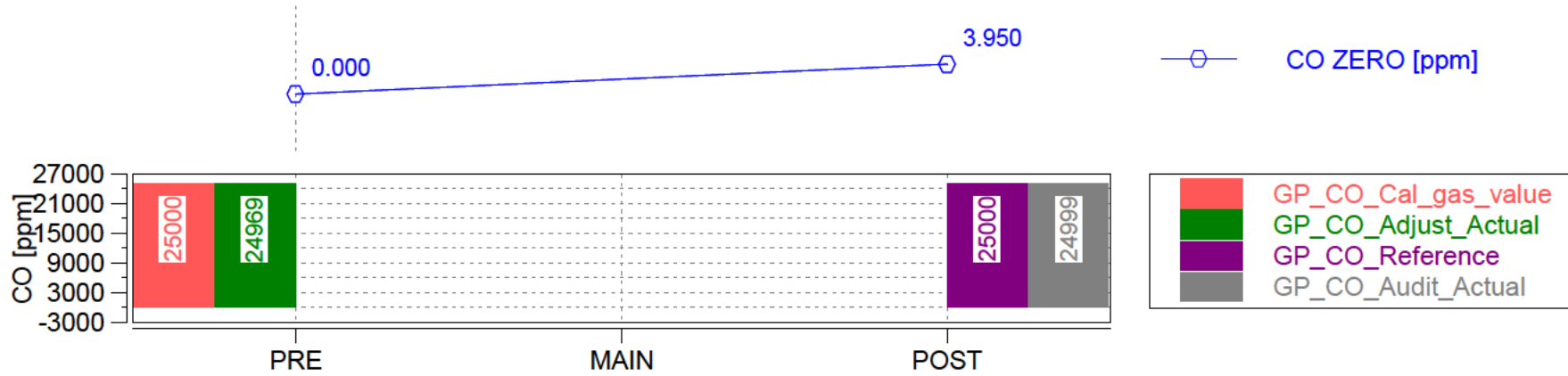
Vehicle: Audi Q8 / 3.0L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

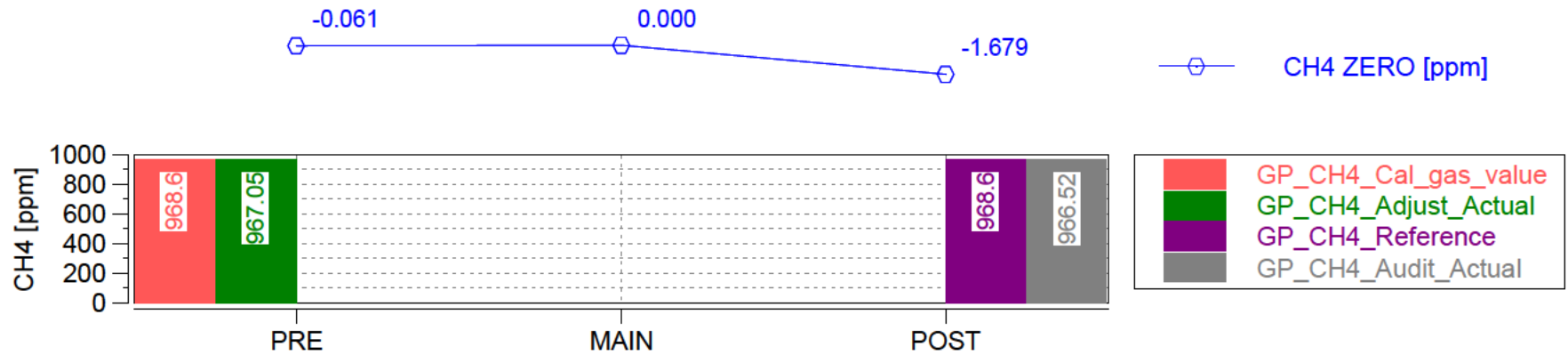
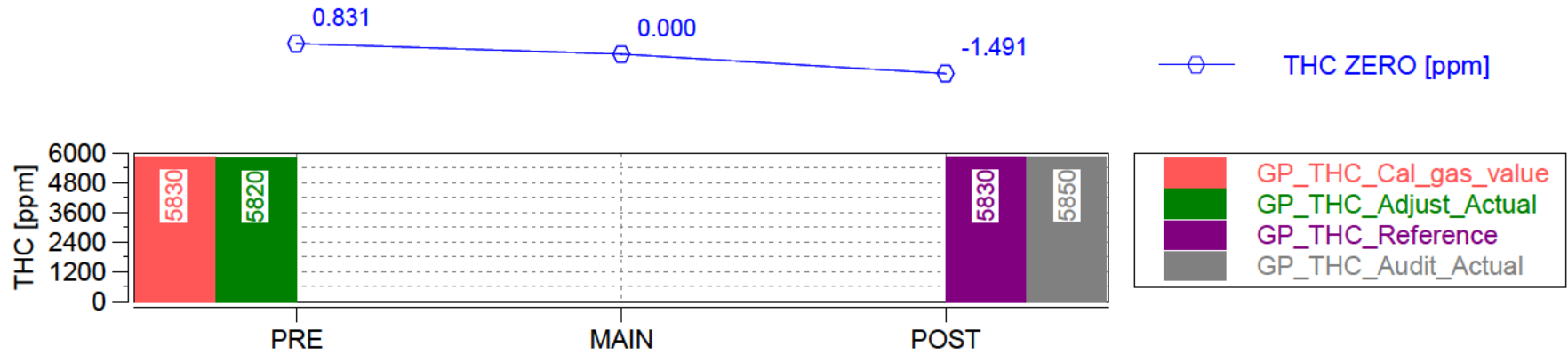
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City
Page: Trip Summary

'City'
Start Date: 07/24/2019
Start Time: 23:56:53.0



Trip Duration	3054.00	s	ave THC	0.83254	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3054.00	s	ave NMHC	0.81589	ppm	BS CO	n/a	g/hphr
Trip Distance	16.45	mi	ave CH4	0.01665	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	16.45	mi	ave CO	-10.87127	ppm	BS NMHC	n/a	g/hphr
			ave CO2	12.13614	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx	5.95966	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.63	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.60	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC	0.02753	g	BS PN	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	0.93	gall	tot NMHC	0.02547	g			
Trip Fuel Cons. Volume US (ac)	0.92	gall	tot CH4	0.00061	g	DS CO2	481.12250	g/mi
			tot CO	-0.43886	g	DS CO	-0.02668	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2	7913.27090	g	DS THC	0.00167	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO (d)	0.29233	g	DS NMHC	0.00155	g/mi
Trip Fuel Economy EU (ac)	17.70	mpg_US	tot NO2	0.04366	g	DS CH4	0.00004	g/mi
Trip Fuel Economy US (ac)	17.91	mpg_US	tot NOx	0.33599	g	DS NO (d)	0.01777	g/mi
			tot Soot	n/a	g	DS NO2	0.00265	g/mi
Trip Av. Eng. Speed	1161.84	rpm	tot Soot meas	n/a	g	DS NOx	0.02043	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN	n/a	#/mi
Trip Exhaust Mass	41.87	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
Trip Av. Amb. Temperature	75.76	deg_F				FS NMHC	n/a	g/kg
Trip Av. Humidity	61.05	%	Trip Av. Veh. Speed	19.38844	mi/hr	FS CH4	n/a	g/kg
			Trip Velocity Zero	16.83039	%	FS NO (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E., 2018

Trip Duration	3054.00	s	ave THC DC	0.68774	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3054.00	s	ave NMHC DC	0.67399	ppm	BS CO DC	n/a	g/hphr
Trip Distance	16.45	mi	ave CH4 DC	0.01375	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	16.45	mi	ave CO DC	-12.05858	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	12.12783	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	6.03981	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.63	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.60	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC DC	0.02428	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	0.93	gall	tot NMHC DC	0.02246	g			
Trip Fuel Cons. Volume US (ac)	0.92	gall	tot CH4 DC	0.00054	g	DS CO2 DC	480.79319	g/mi
			tot CO DC	-0.49374	g	DS CO DC	-0.03002	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	7907.85456	g	DS THC DC	0.00148	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.29405	g	DS NMHC DC	0.00137	g/mi
Trip Fuel Economy EU (ac)	17.70	mpg_US	tot NO2 DC	0.04796	g	DS CH4 DC	0.00003	g/mi
Trip Fuel Economy US (ac)	17.91	mpg_US	tot NOx DC	0.34201	g	DS NO DC (d)	0.01788	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00292	g/mi
Trip Av. Eng. Speed	1161.84	rpm	tot Soot meas	n/a	g	DS NOx DC	0.02079	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	41.87	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	75.76	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	61.05	%	Trip Av. Veh. Speed	19.38844	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	16.83039	%	FS NO DC (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Time Alignment Check

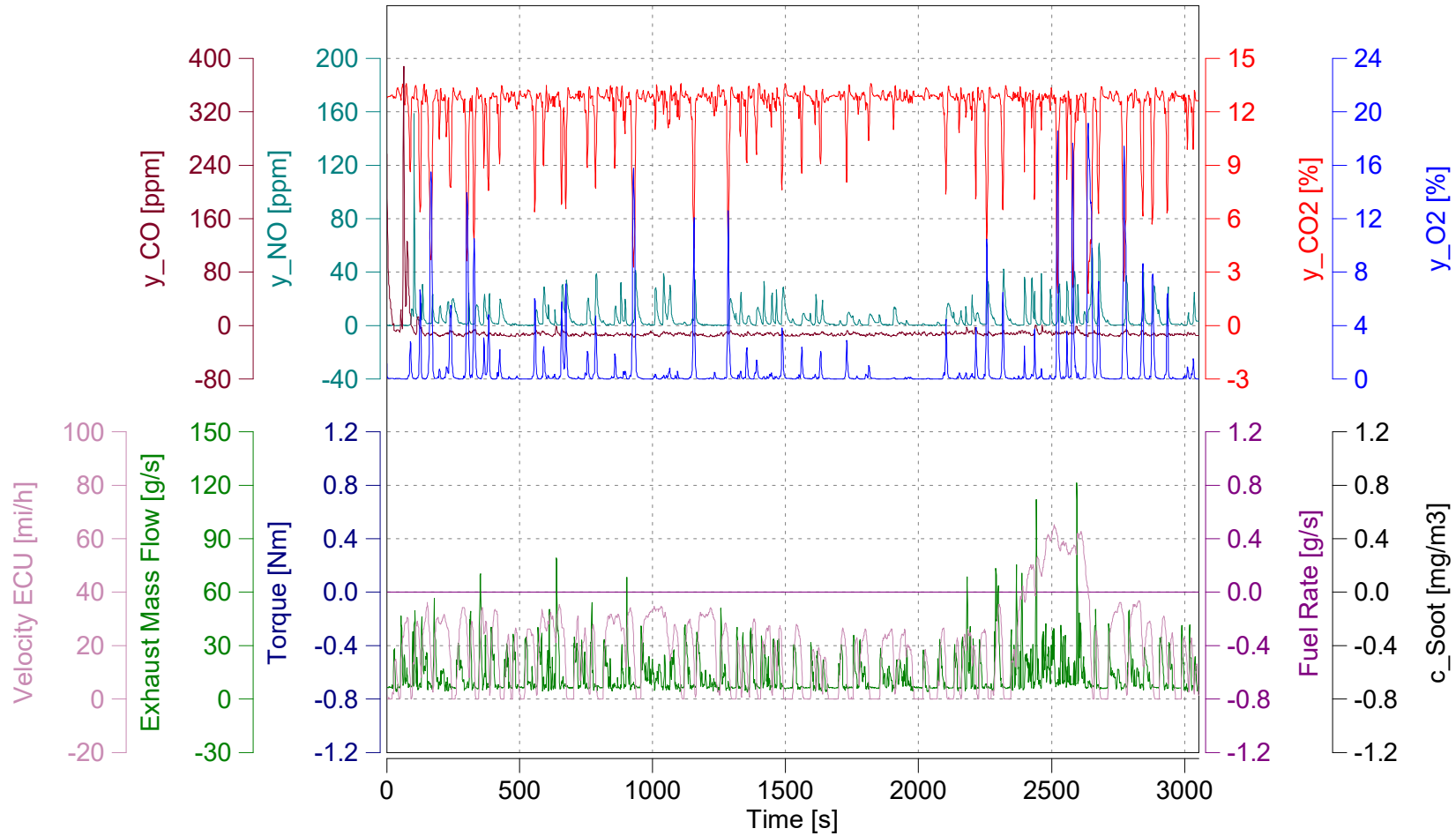
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E, 2018



Concerto Version: 480 Build 316, Serial Number: 1120

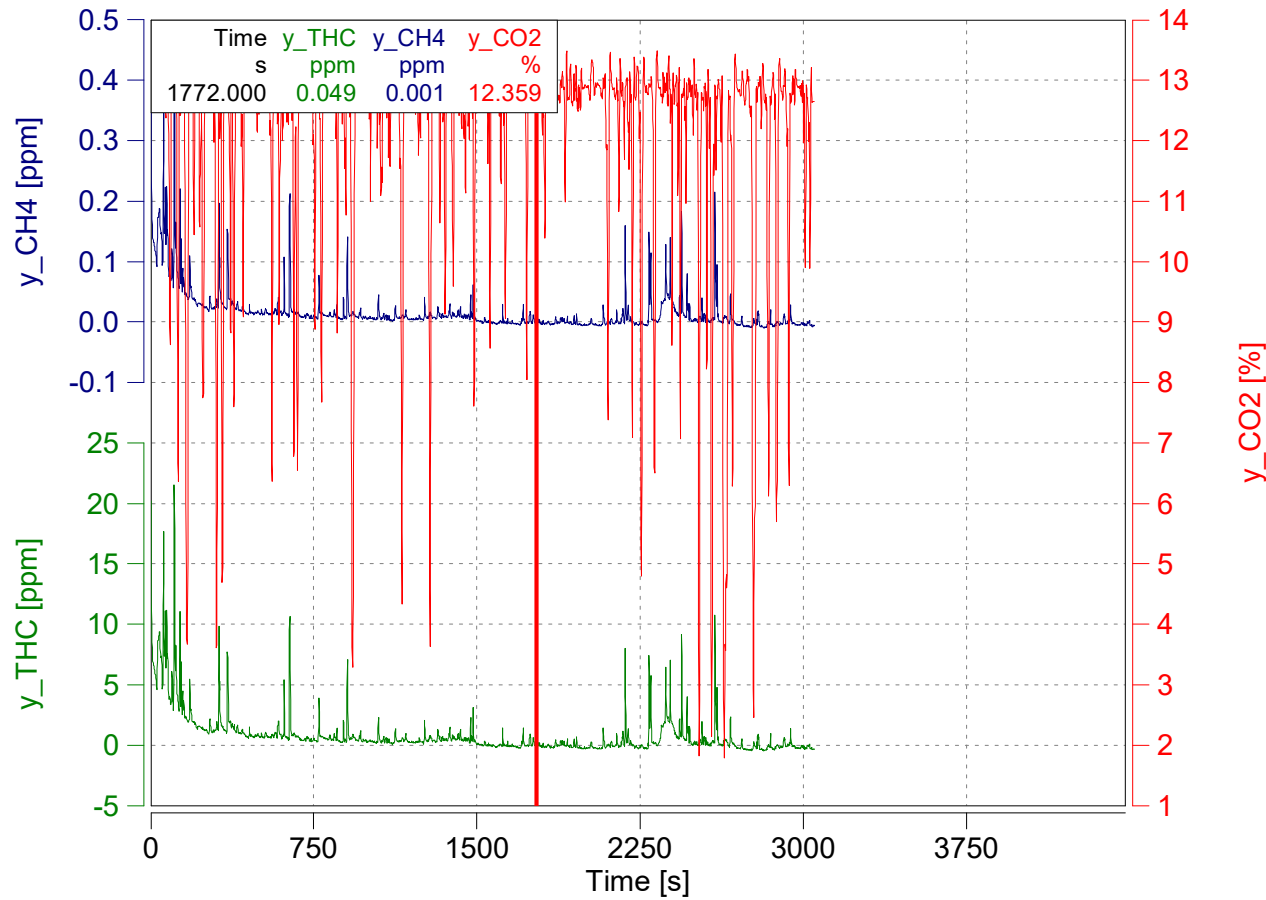
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Vehicle: Atlas / 3.6 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Case: City

Page: Ambient Conditions

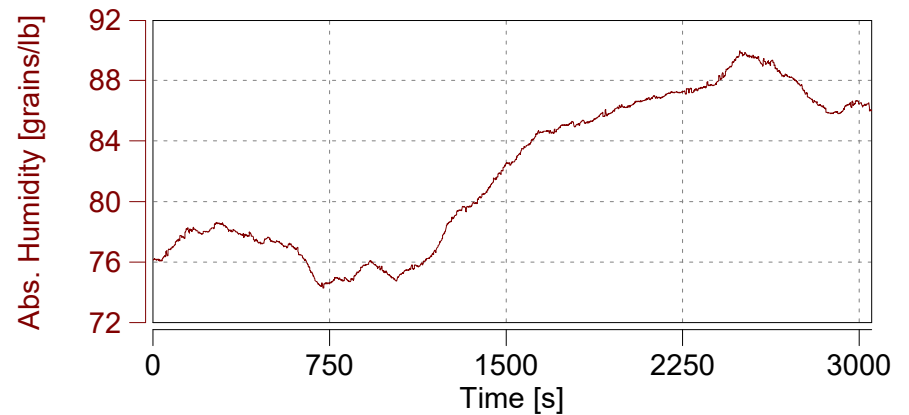
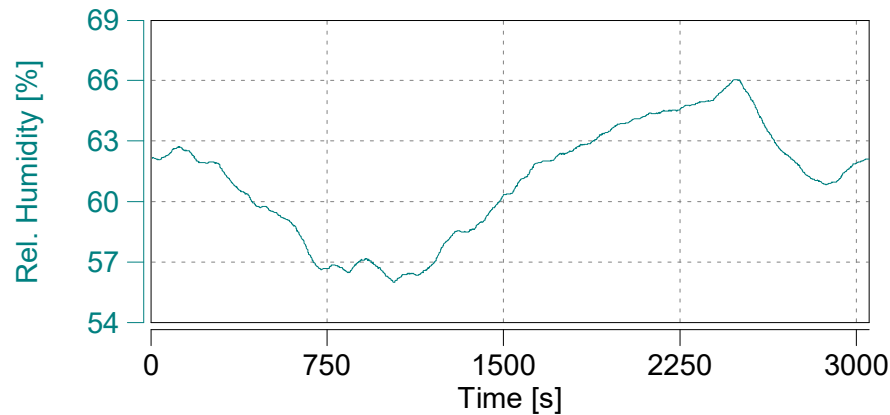
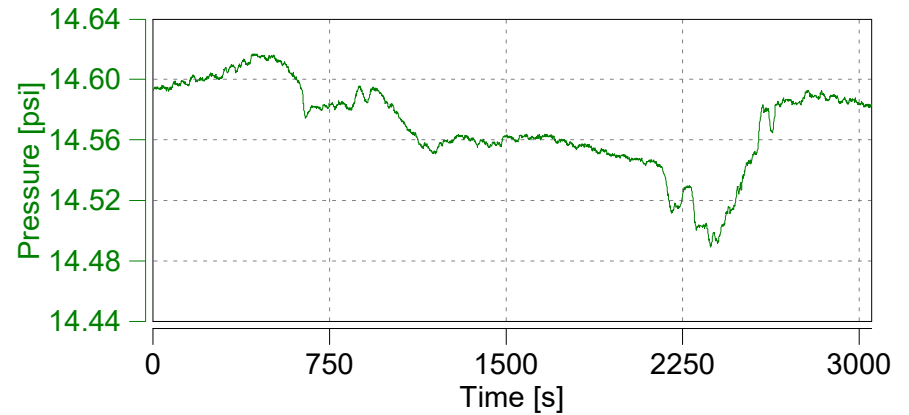
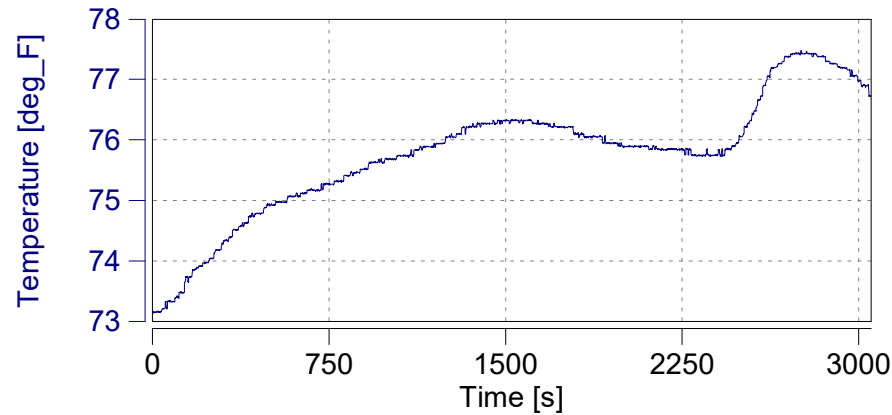
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

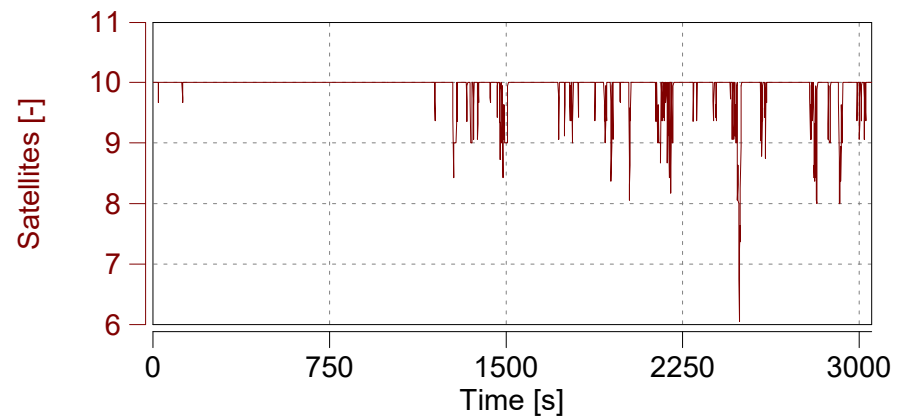
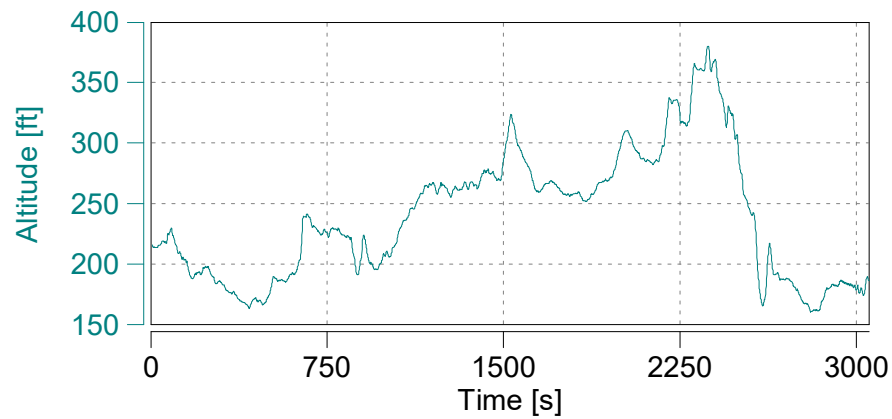
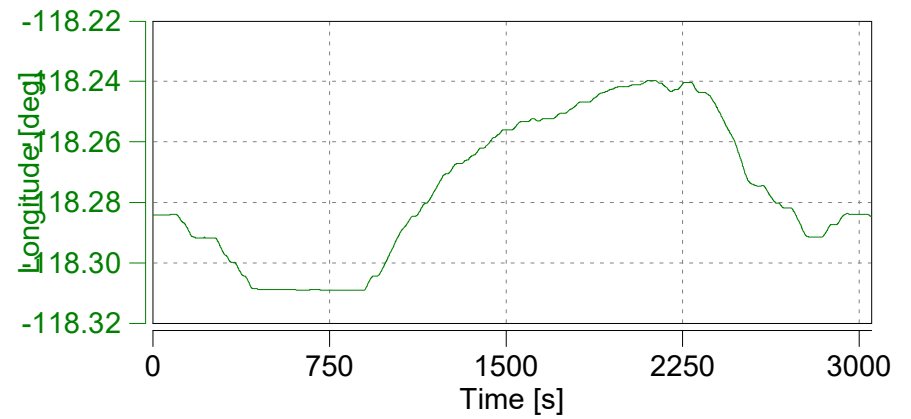
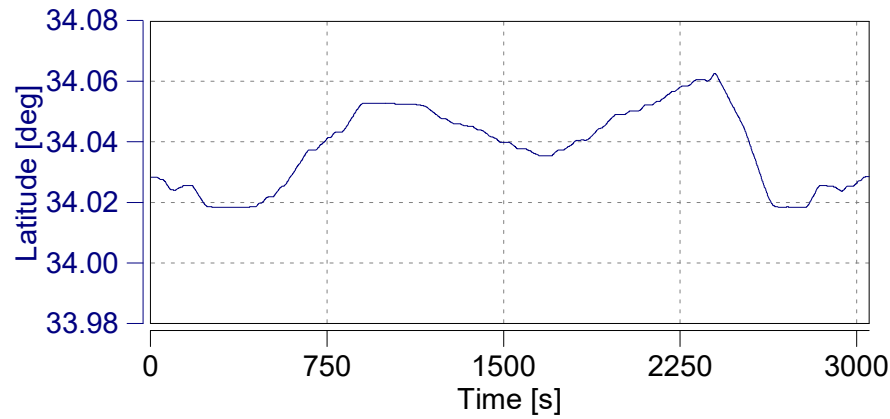
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (1)

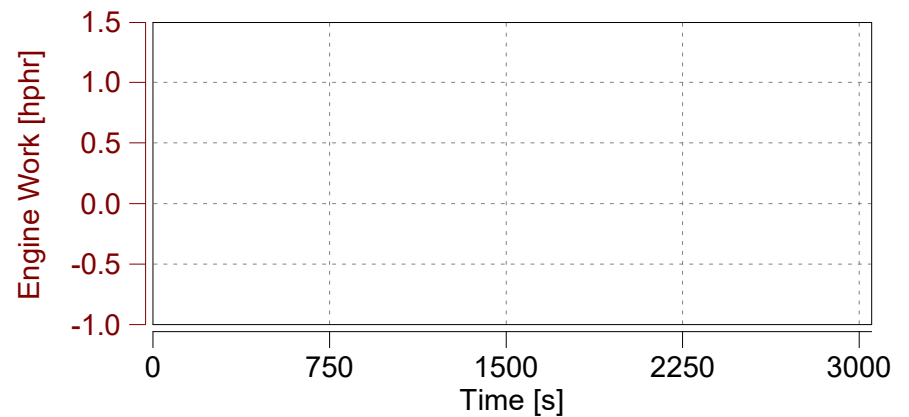
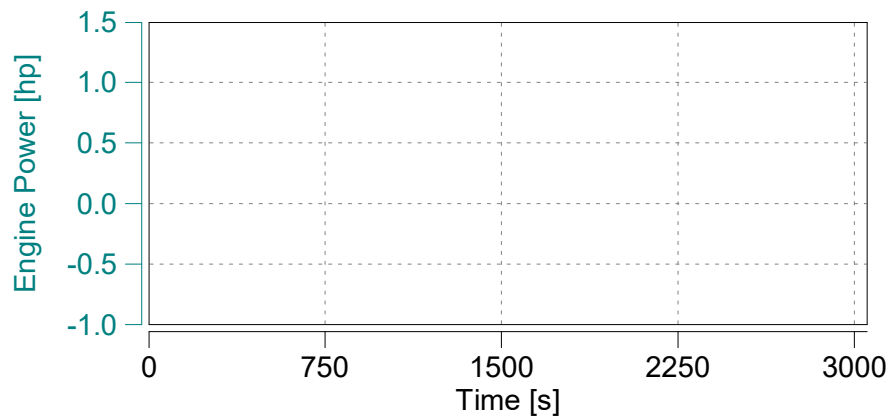
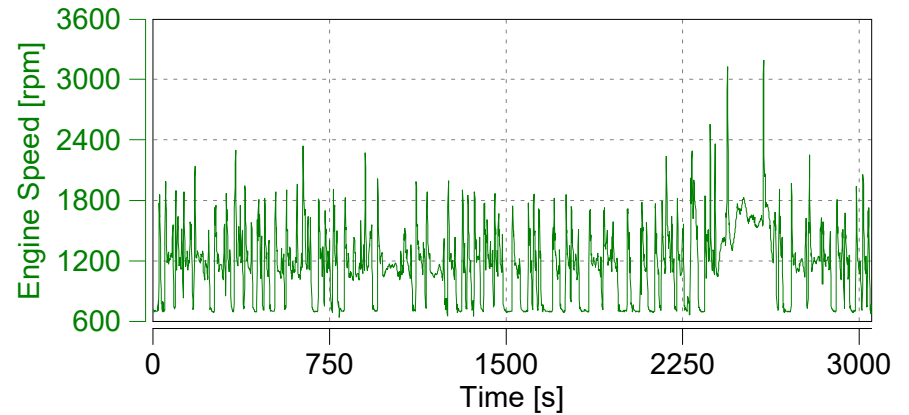
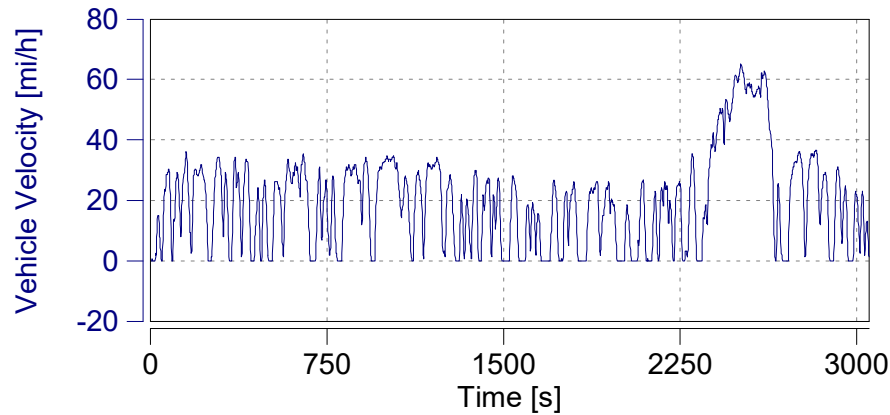
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E, 2018



Concerto Version: 480 Build 316, Serial Number: 1120

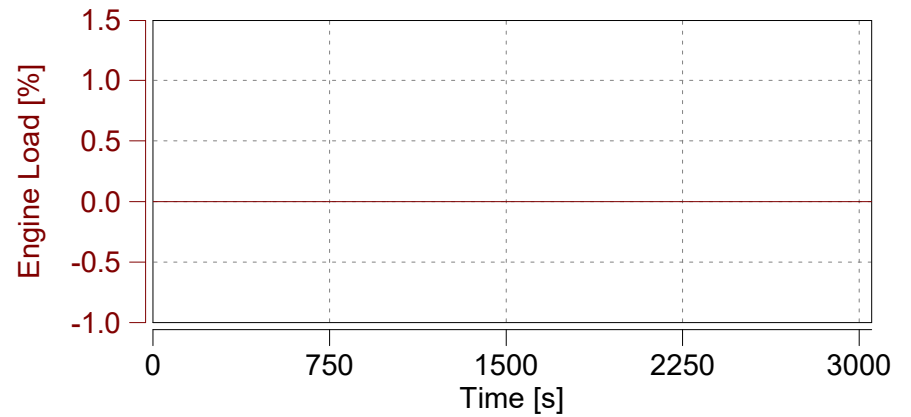
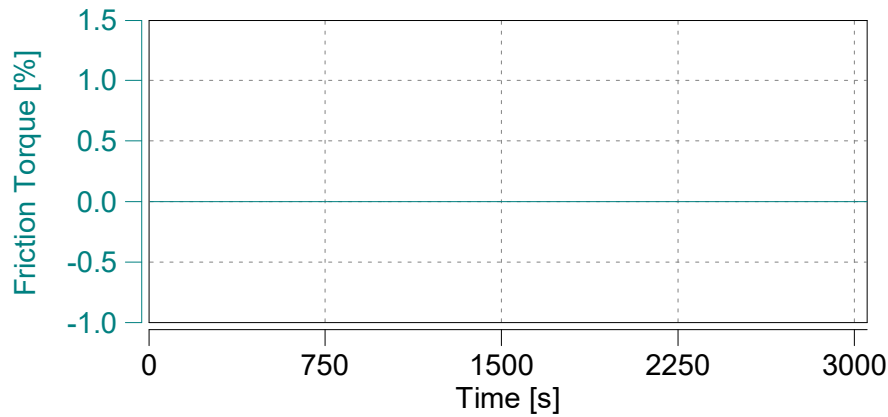
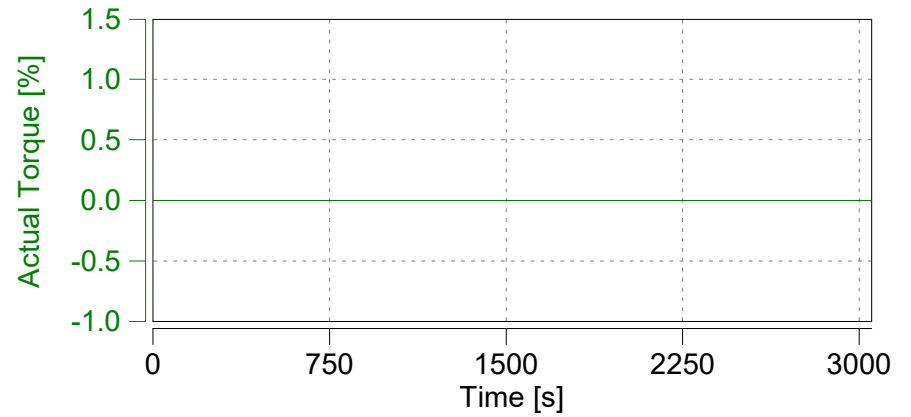
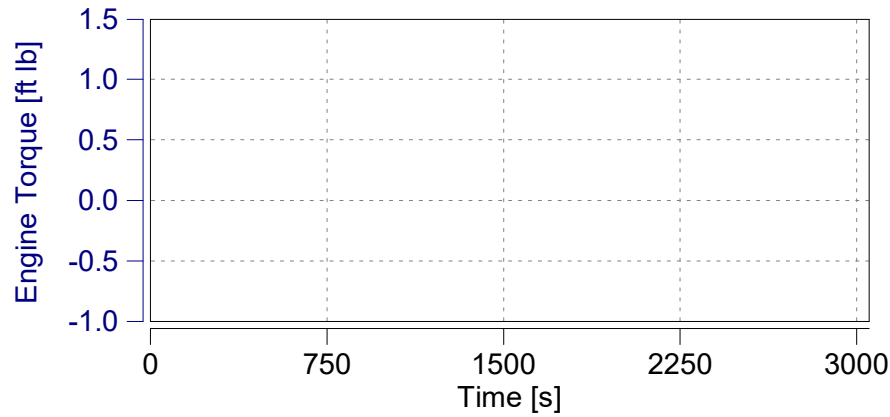
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

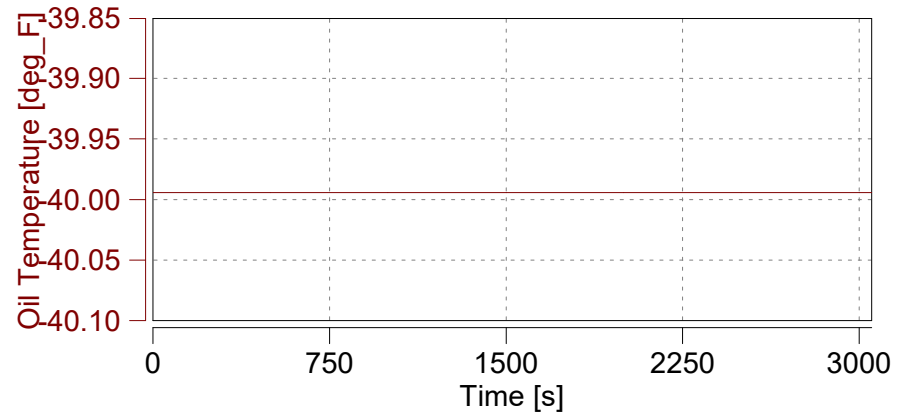
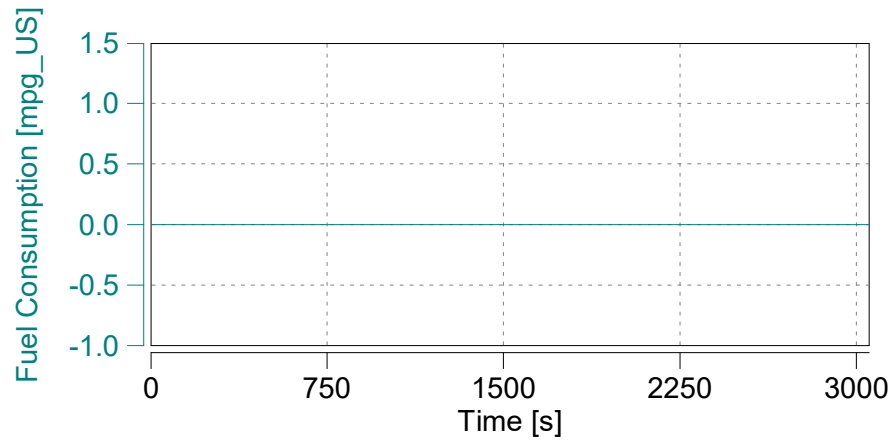
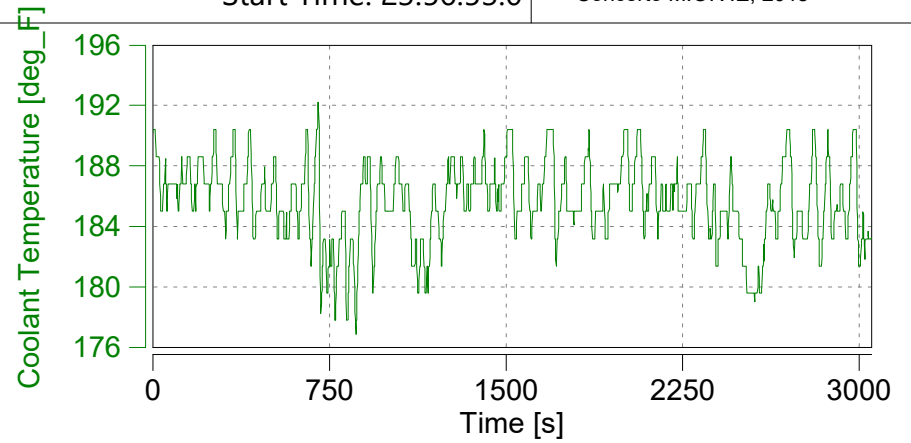
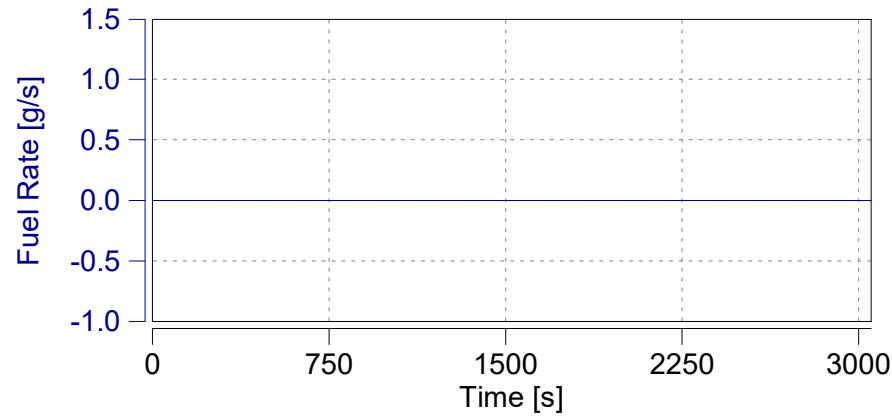
Vehicle: Atlas / 3.6 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90





Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

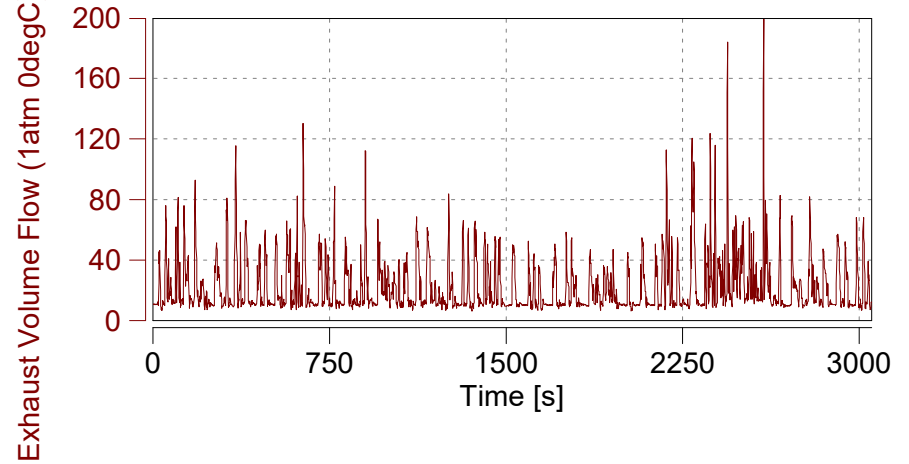
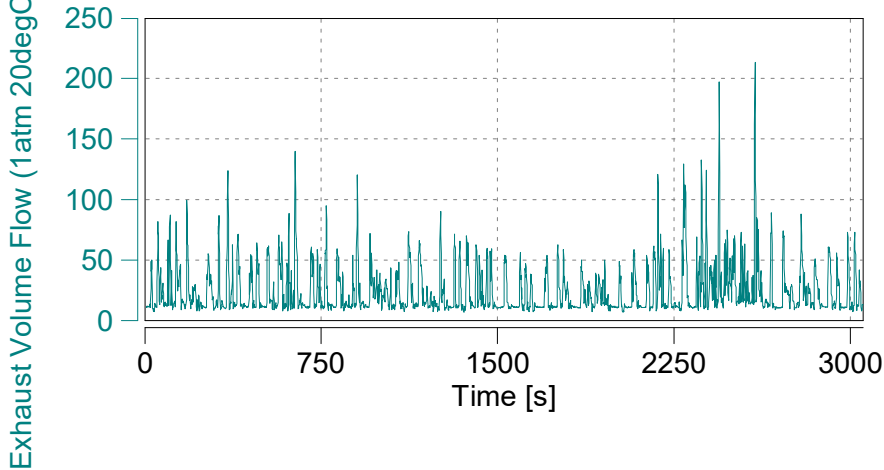
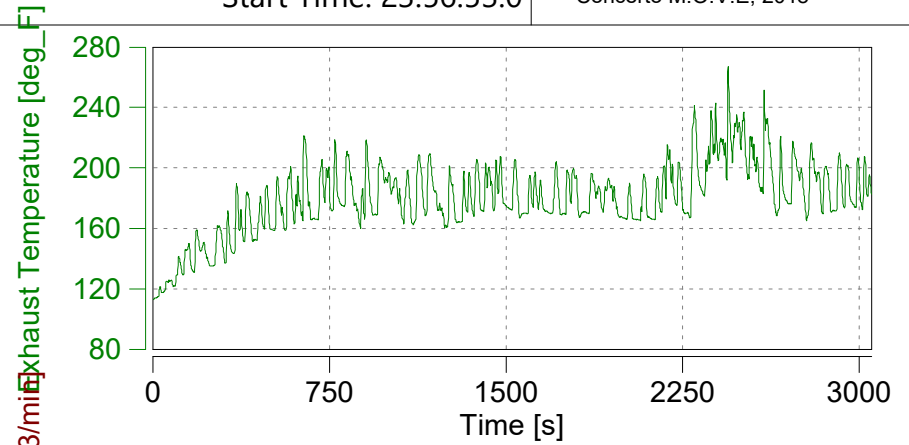
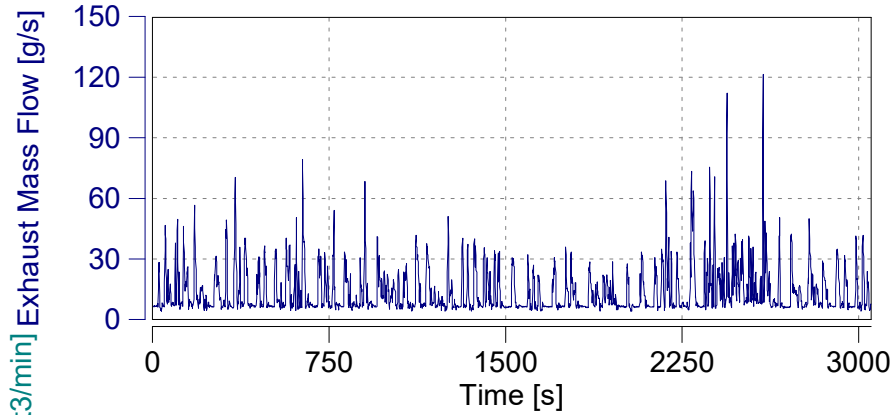
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (2)

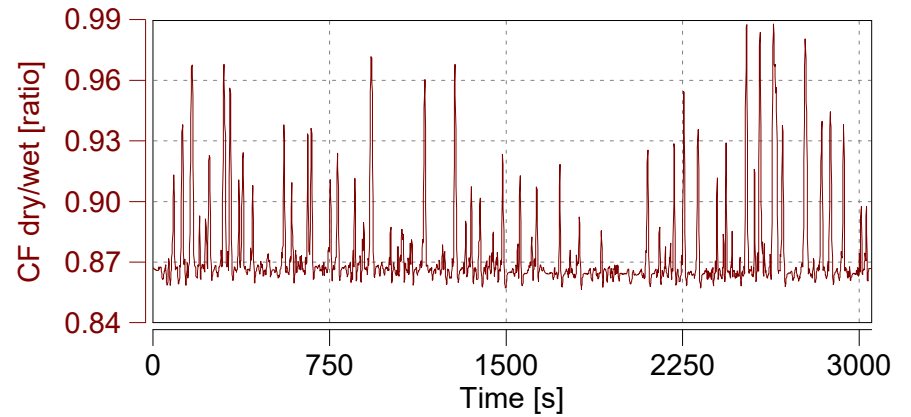
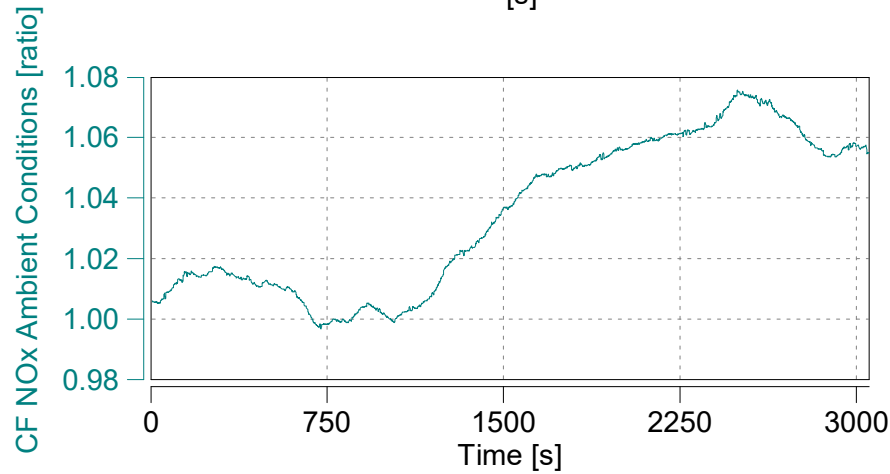
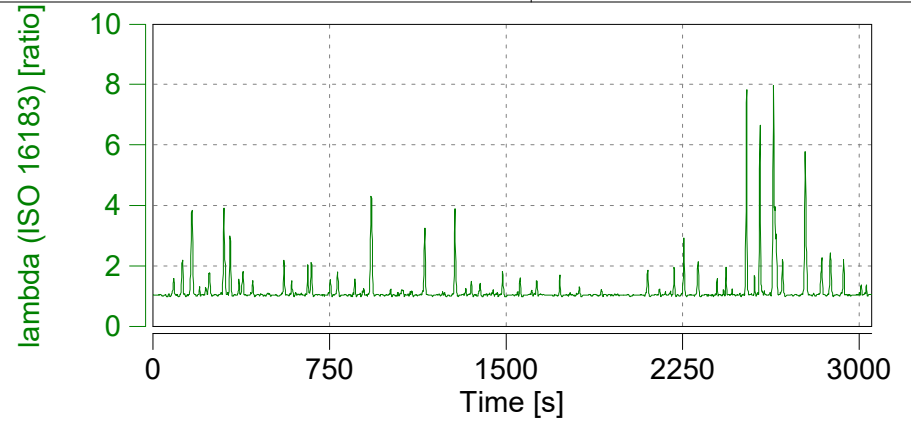
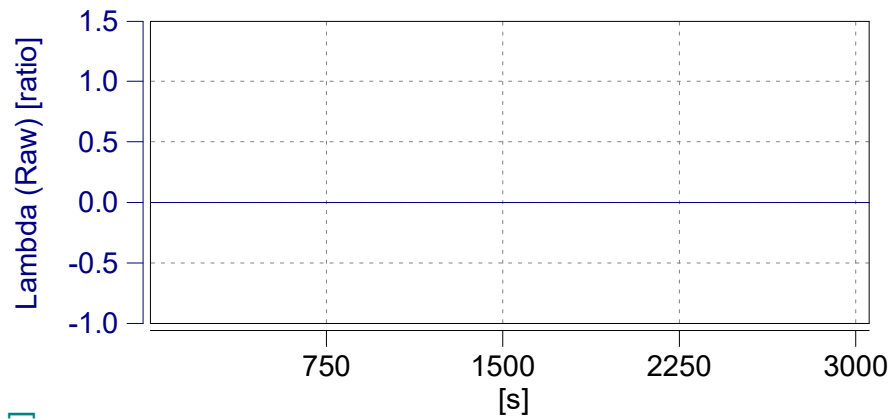
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

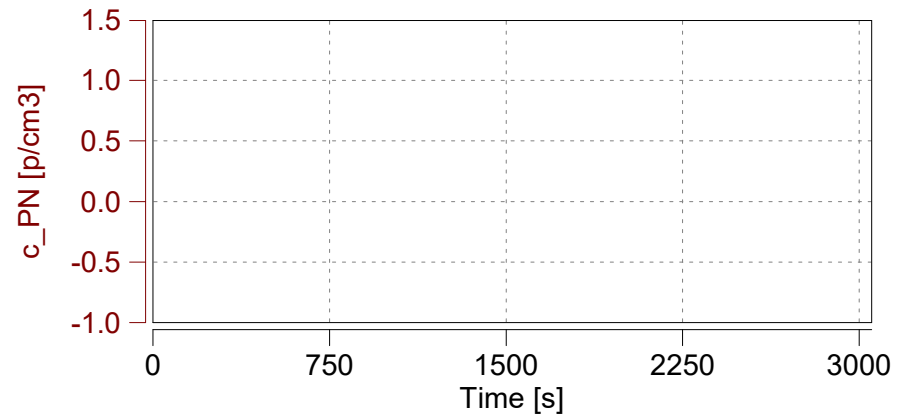
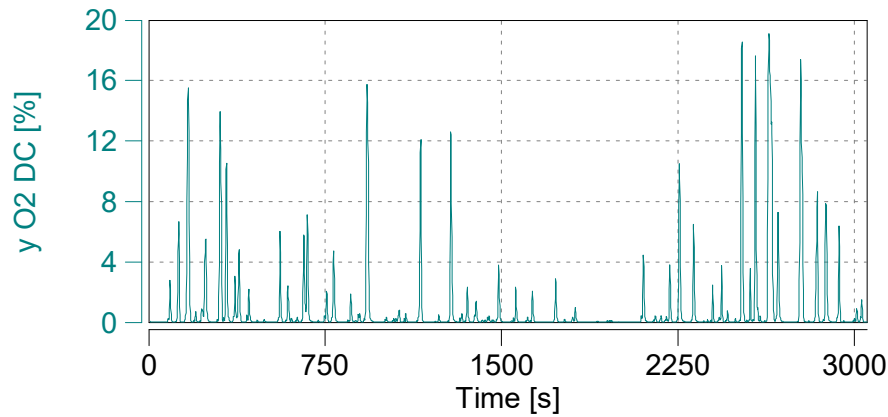
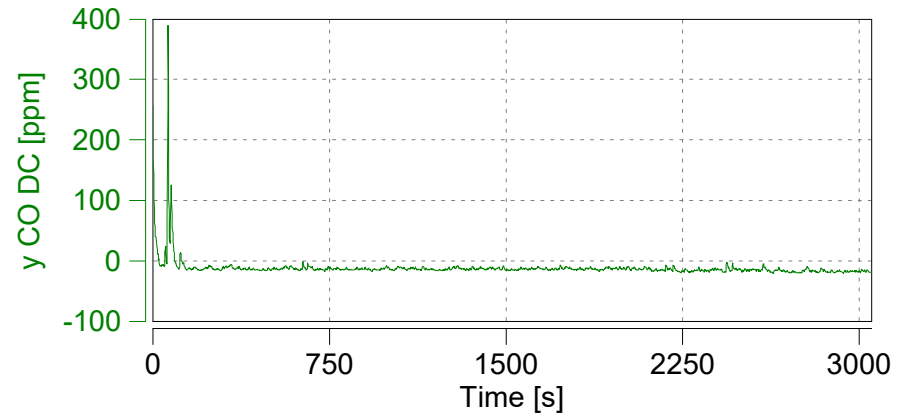
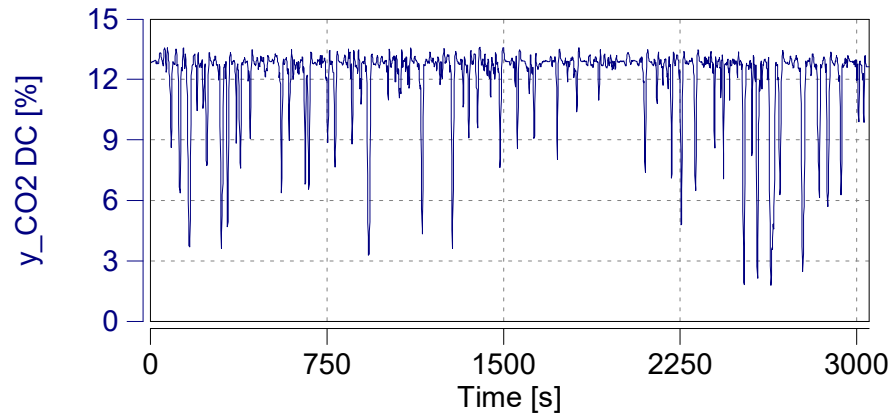
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

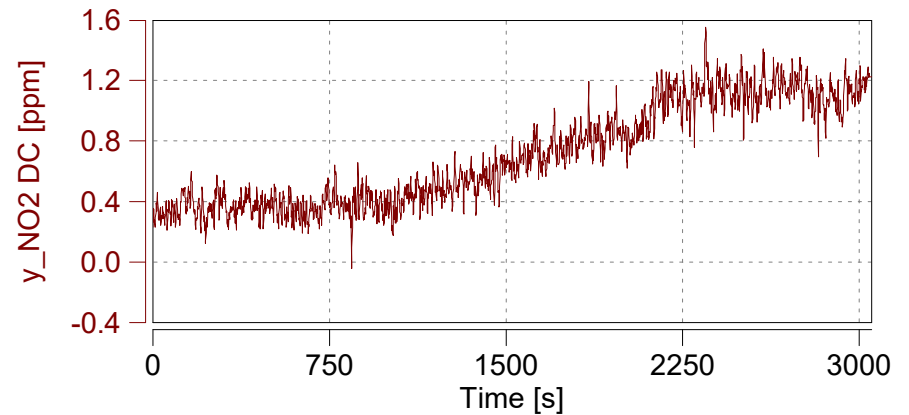
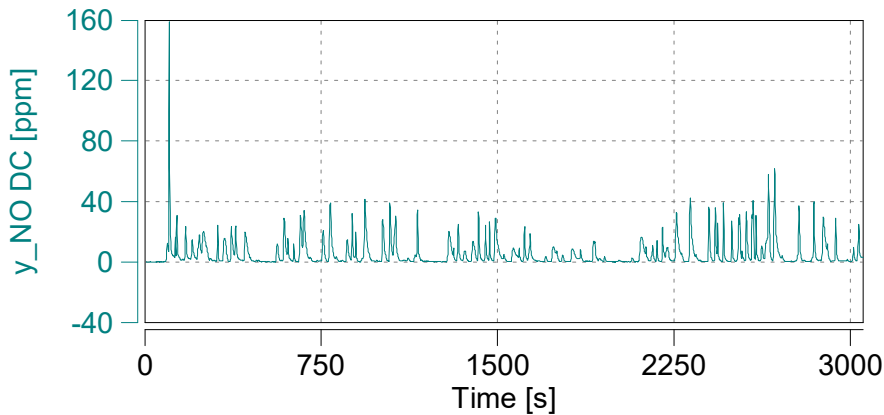
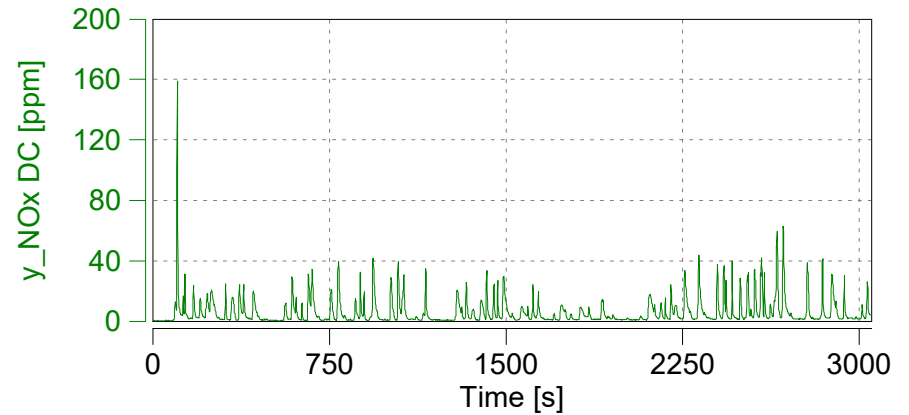
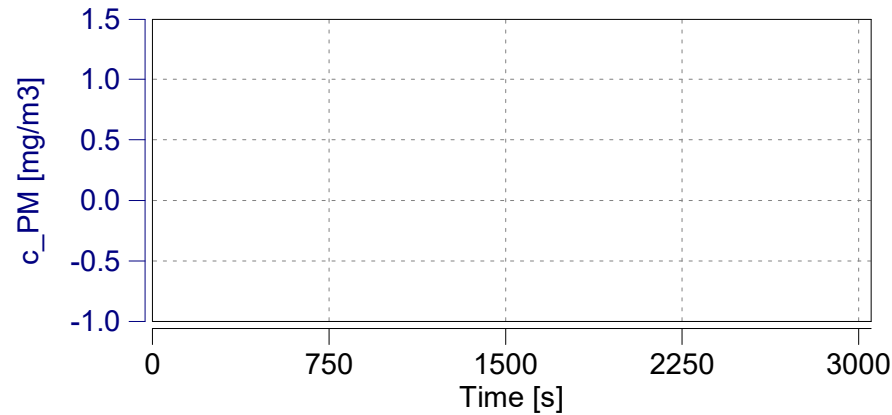
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0

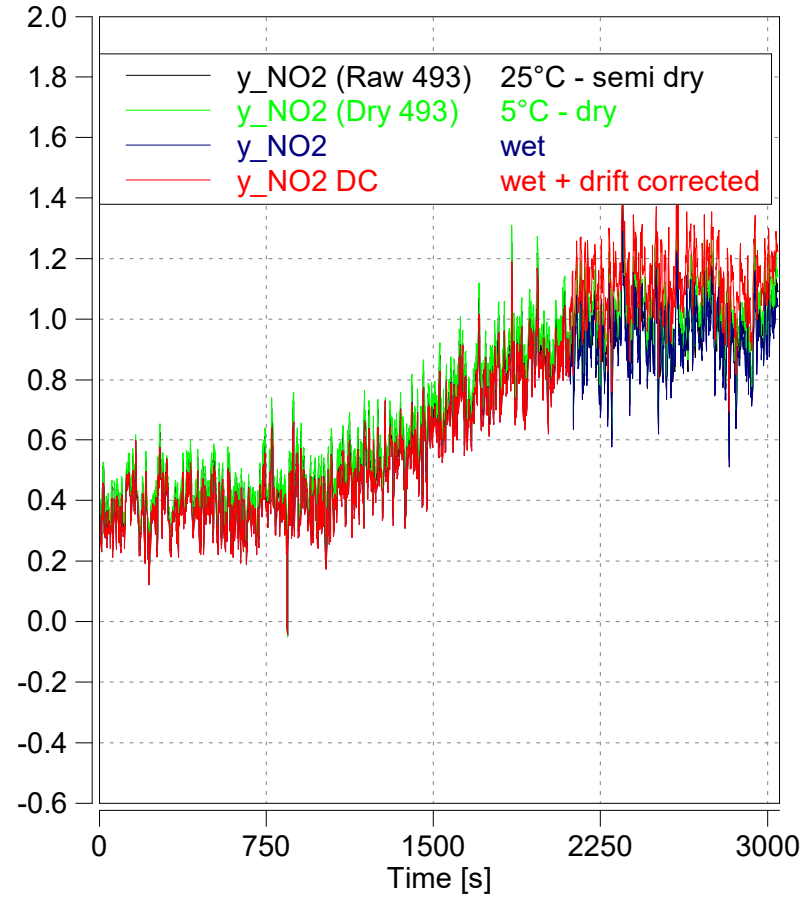
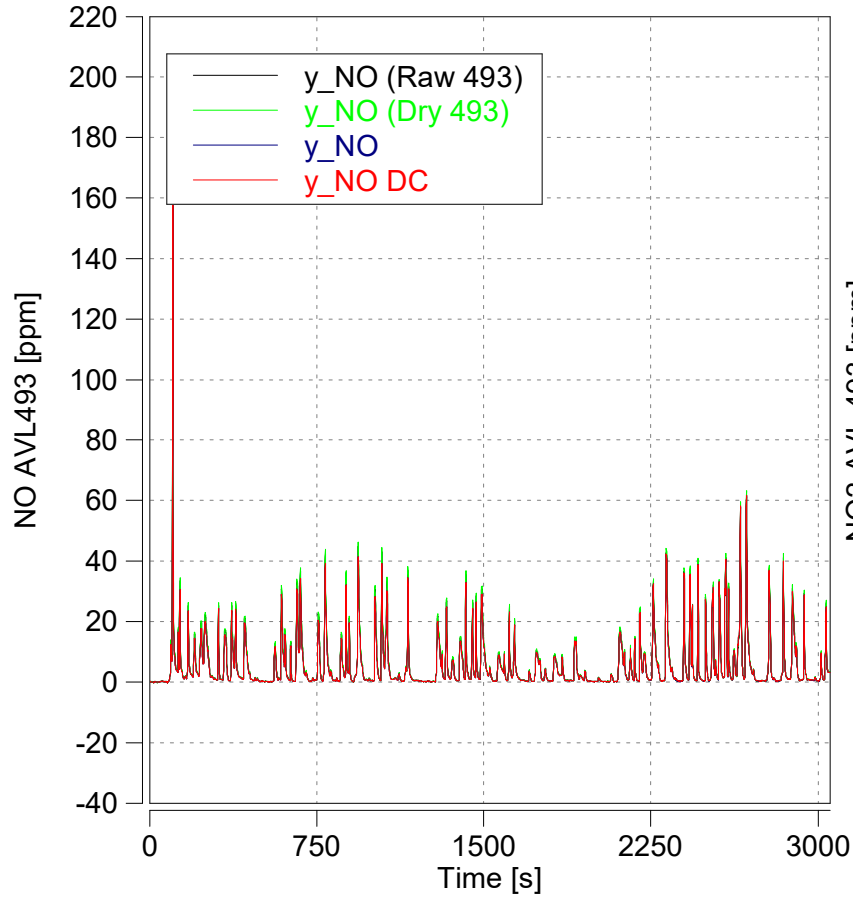


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

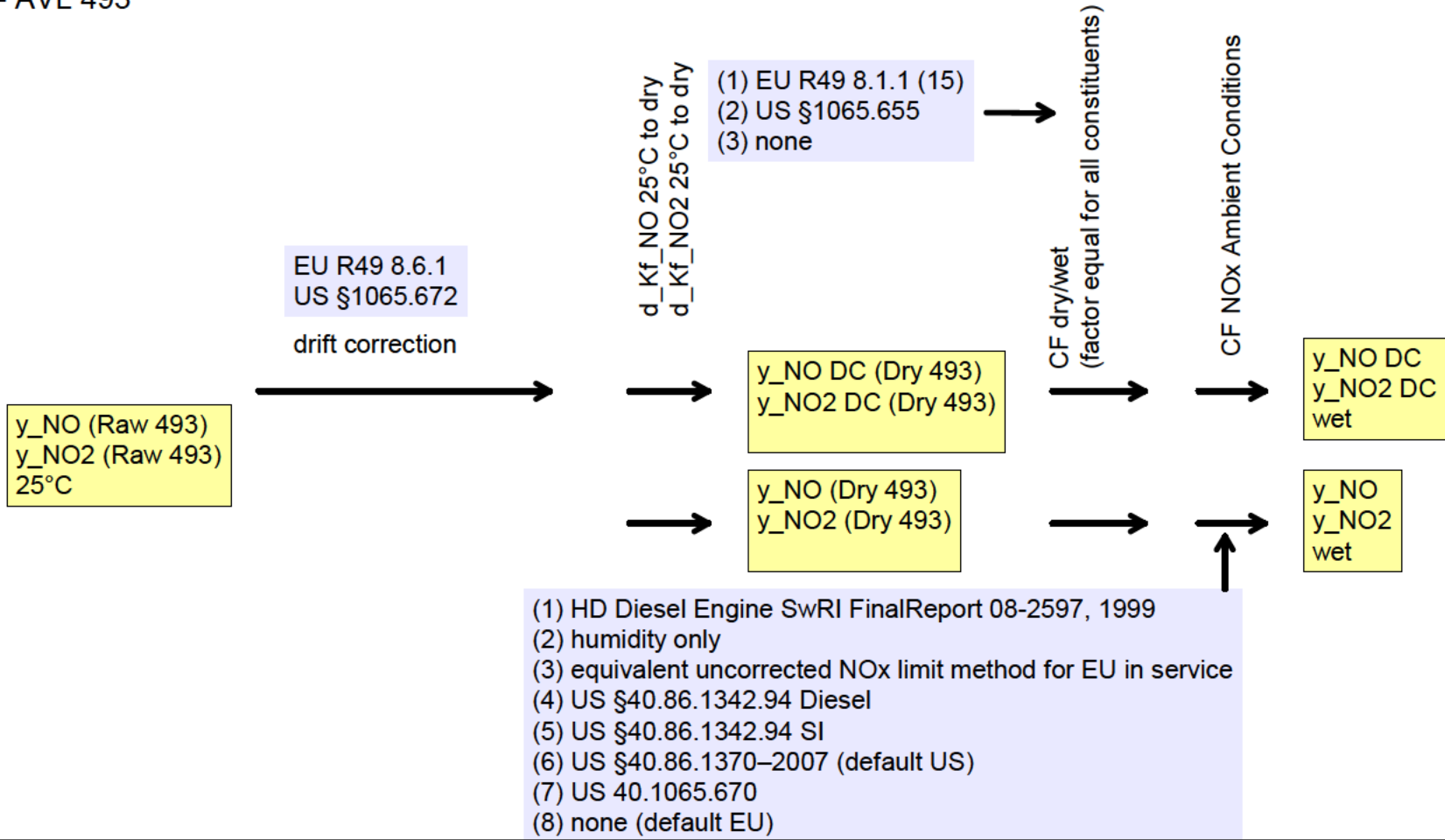


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

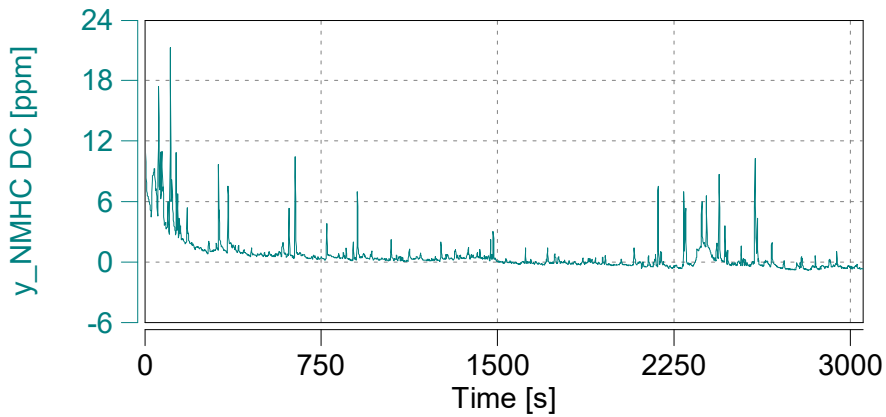
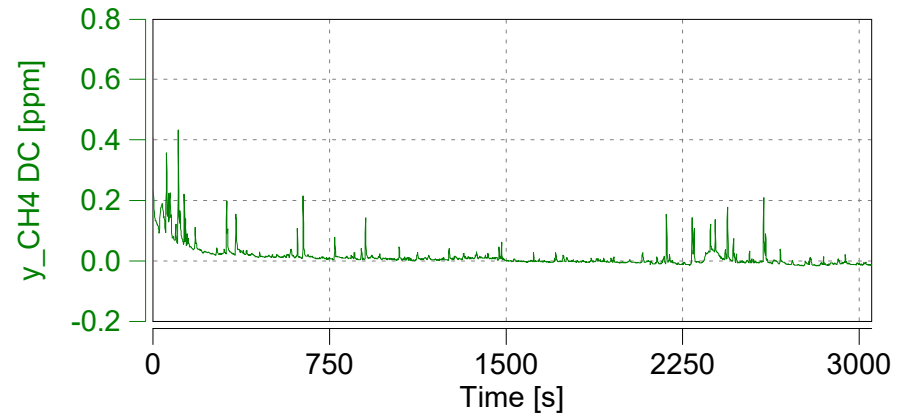
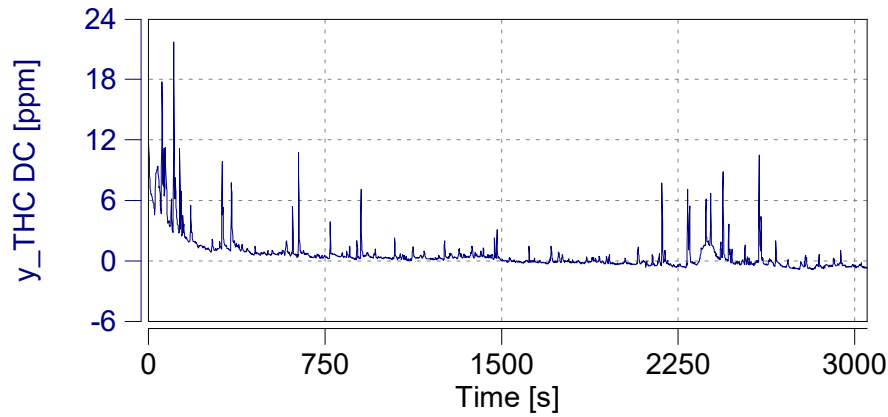
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

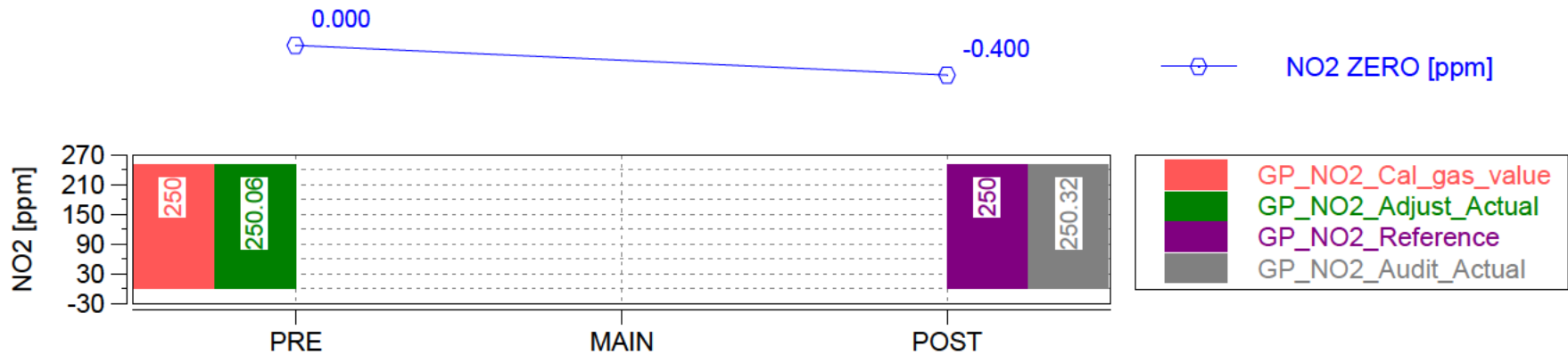
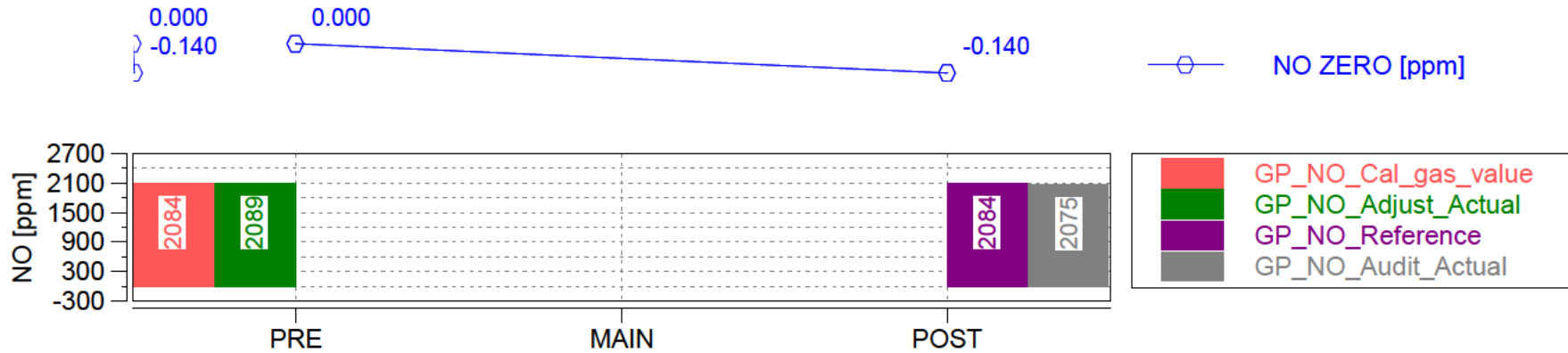
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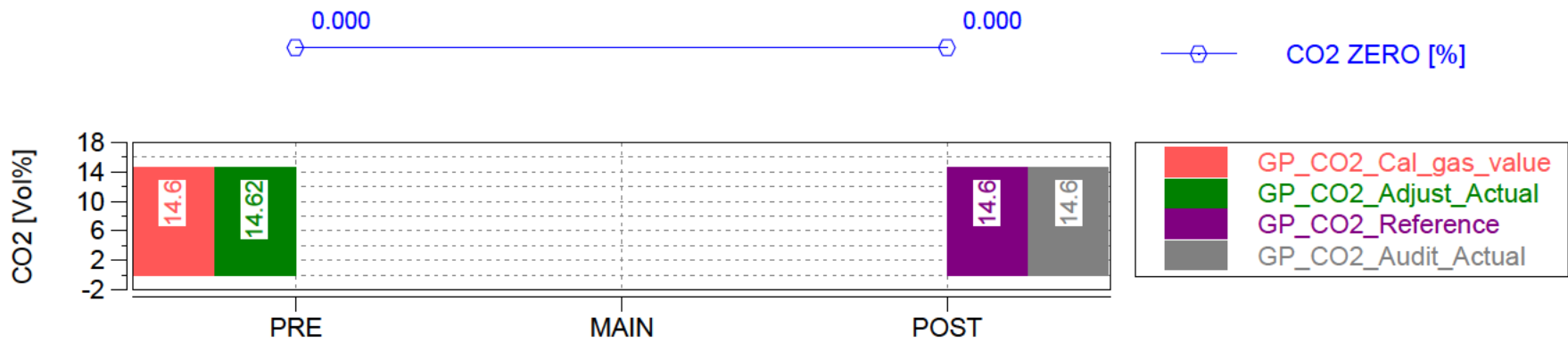
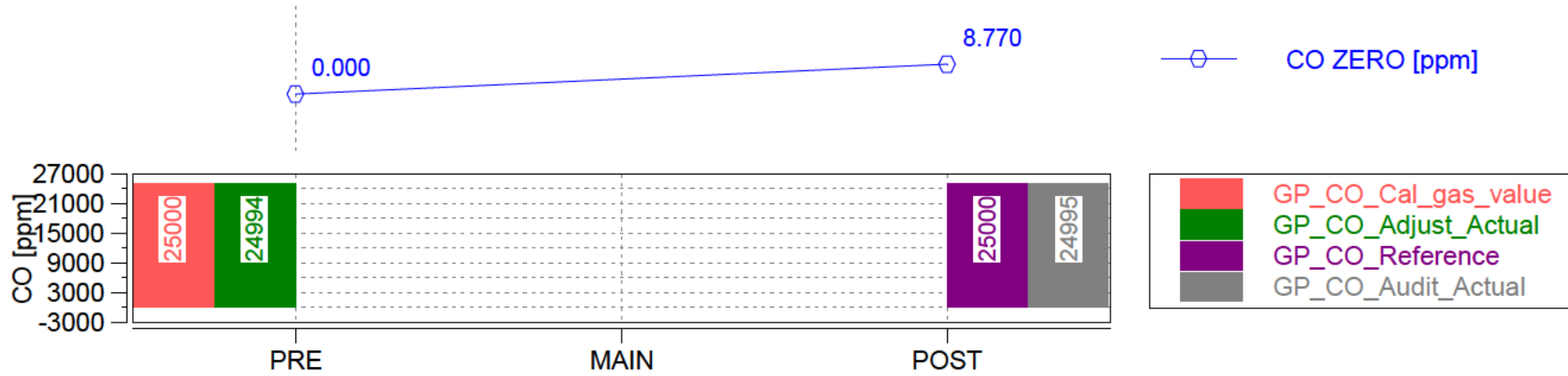
Vehicle: Atlas / 3.6 L

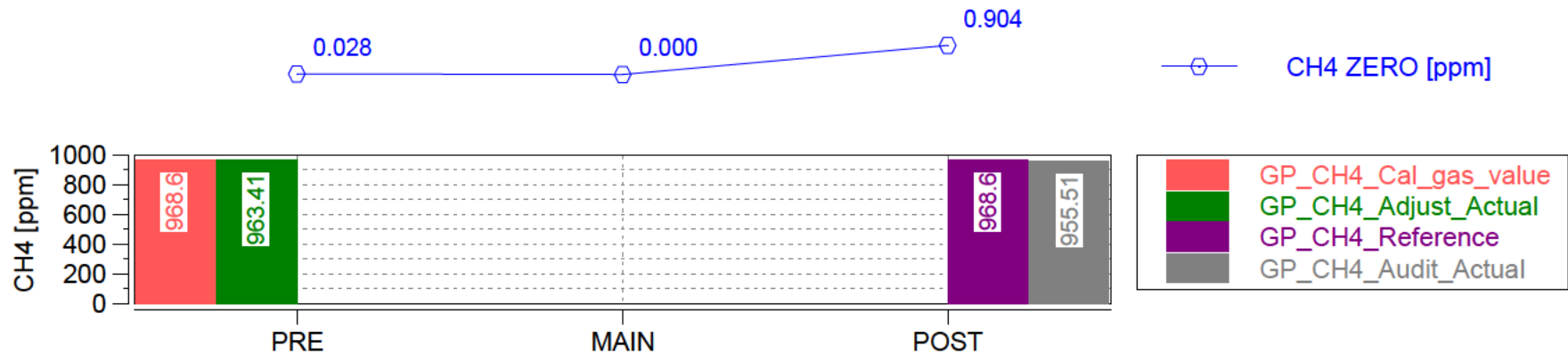
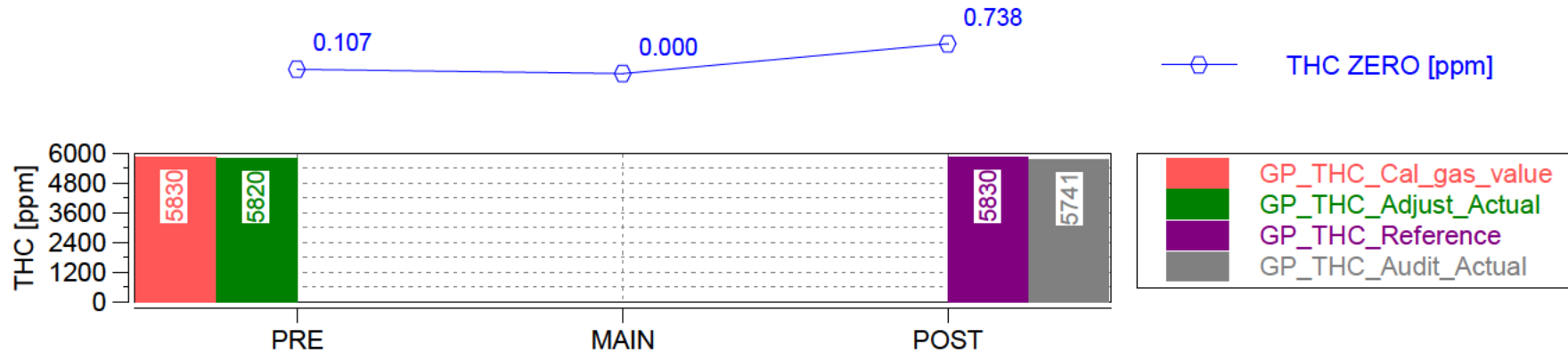
Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90







Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 07/24/2019
Start Time: 14:28:26.0



Trip Duration	3322.00	s	ave THC	1.56649	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3322.00	s	ave NMHC	1.53516	ppm	BS CO	n/a	g/hphr
Trip Distance	39.42	mi	ave CH4	0.03133	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	39.42	mi	ave CO	16.24151	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.43462	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	3.85262	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	5.09	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	5.03	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.80	gall	tot THC	0.13738	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.78	gall	tot NMHC	0.12708	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00304	g	DS CO2	388.92076	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	2.45241	g	DS CO	0.06222	g/mi
Trip Fuel Economy EU (ac)	21.92	mpg_US	tot CO2	15330.43084	g	DS THC	0.00349	g/mi
Trip Fuel Economy US (ac)	22.17	mpg_US	tot NO (d)	0.25922	g	DS NMHC	0.00322	g/mi
Trip Av. Eng. Speed	1549.12	rpm	tot NO2	0.05986	g	DS CH4	0.00008	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.31908	g	DS NO (d)	0.00658	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00152	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00809	g/mi
Trip Exhaust Mass	79.23	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	87.93	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	42.10	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	42.71654	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	4.45515	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0



Concerto M.O.V.E, 2018

Trip Duration	3322.00	s	ave THC DC	0.94726	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3322.00	s	ave NMHC DC	0.92832	ppm	BS CO DC	n/a	g/hphr
Trip Distance	39.42	mi	ave CH4 DC	0.01895	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	39.42	mi	ave CO DC	16.13925	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.41761	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	3.87518	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	5.09	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	5.03	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.80	gall	tot THC DC	0.11124	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.78	gall	tot NMHC DC	0.10290	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00247	g	DS CO2 DC	388.38872	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	2.44800	g	DS CO DC	0.06210	g/mi
Trip Fuel Economy EU (ac)	21.92	mpg_US	tot CO2 DC	15309.45898	g	DS THC DC	0.00282	g/mi
Trip Fuel Economy US (ac)	22.17	mpg_US	tot NO DC (d)	0.26048	g	DS NMHC DC	0.00261	g/mi
Trip Av. Eng. Speed	1549.12	rpm	tot NO2 DC	0.06006	g	DS CH4 DC	0.00006	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.32054	g	DS NO DC (d)	0.00661	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00152	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.00813	g/mi
Trip Exhaust Mass	79.23	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	87.93	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	42.10	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	42.71654	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	4.45515	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

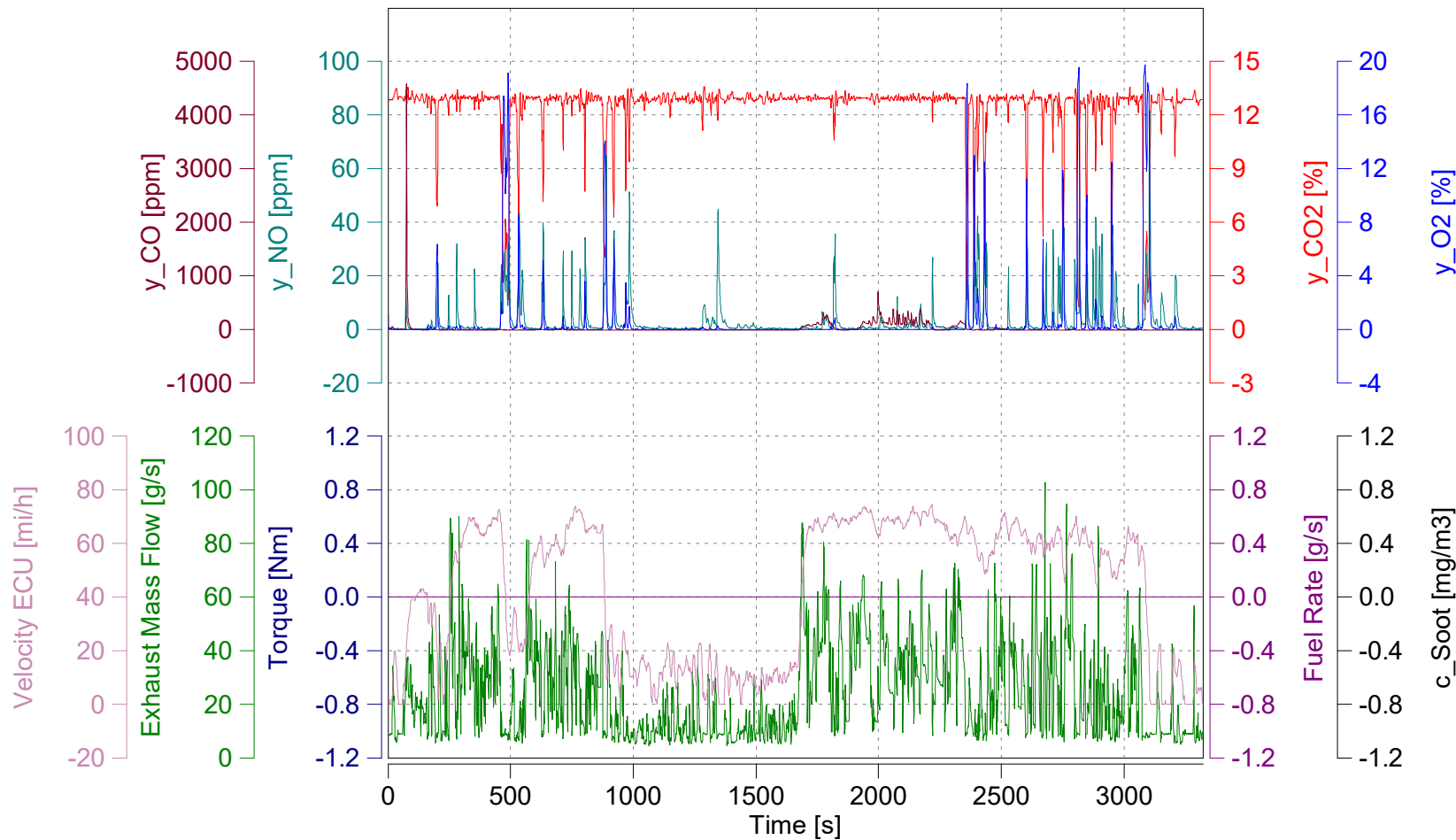
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L

Engine: /

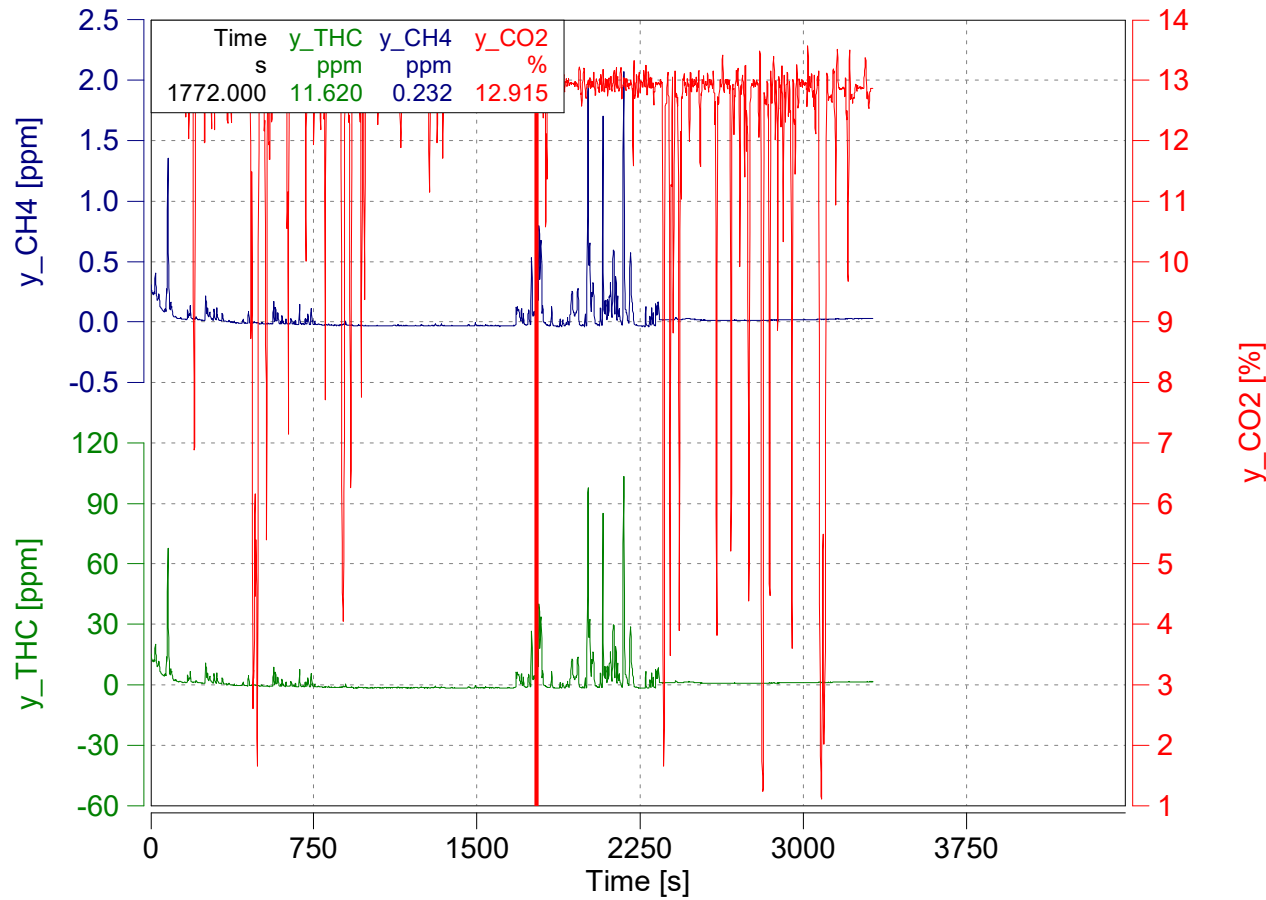
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Ambient Conditions

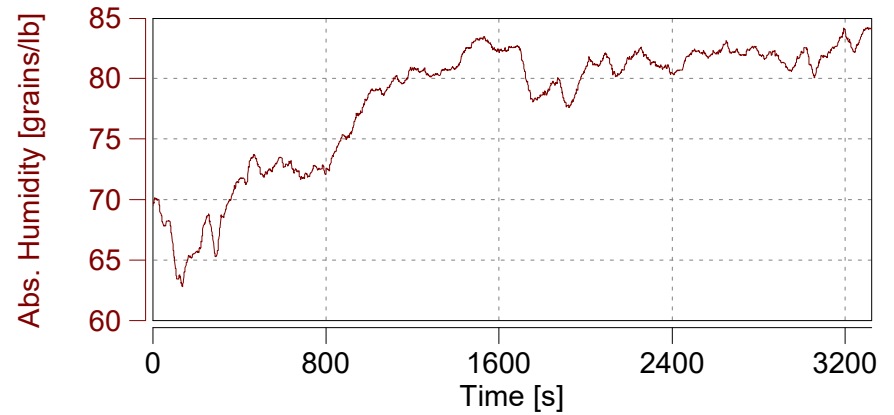
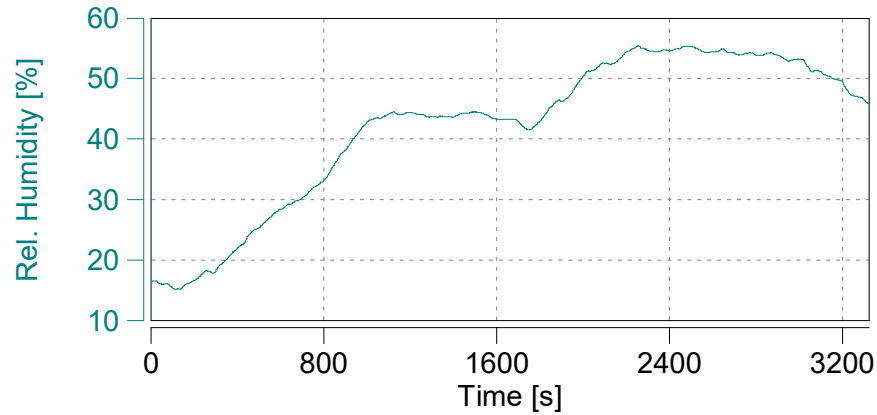
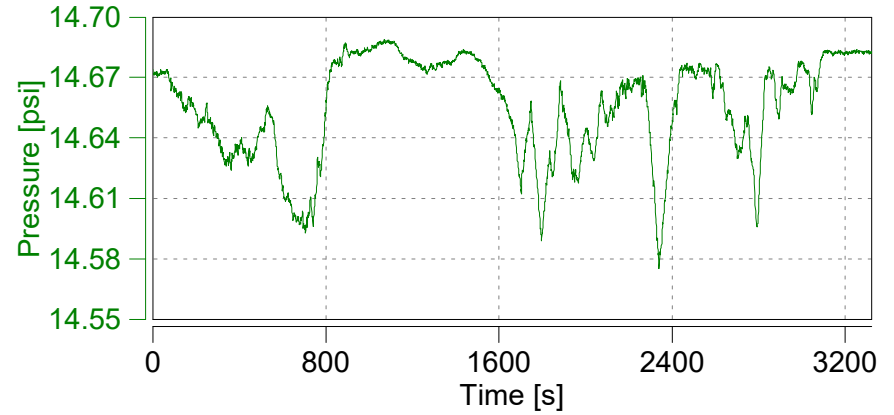
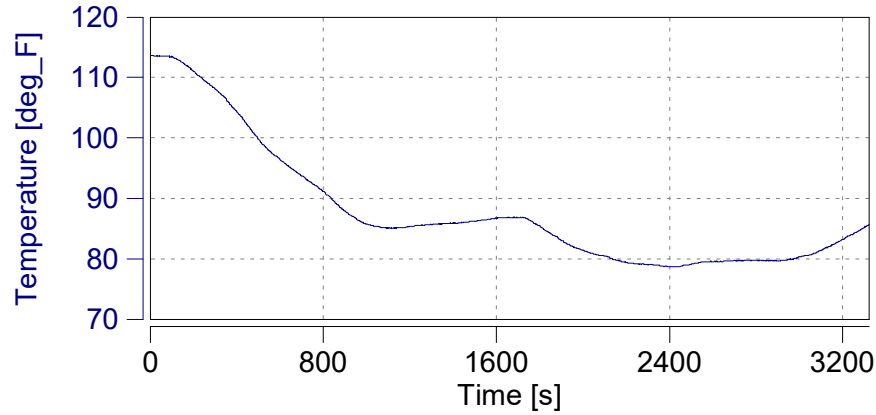
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

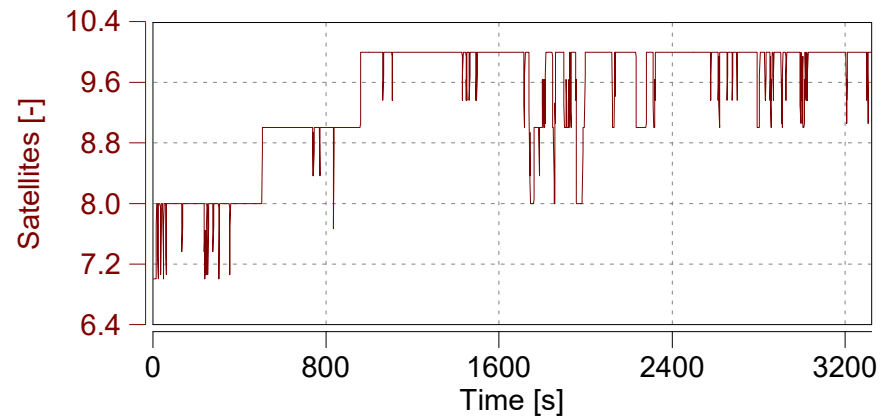
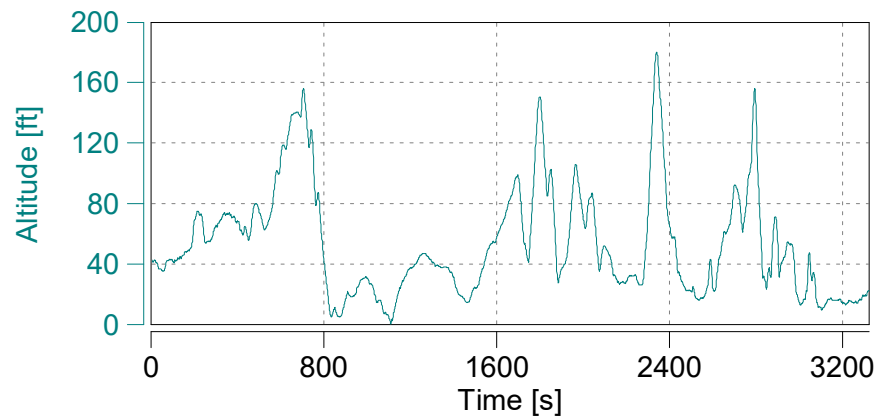
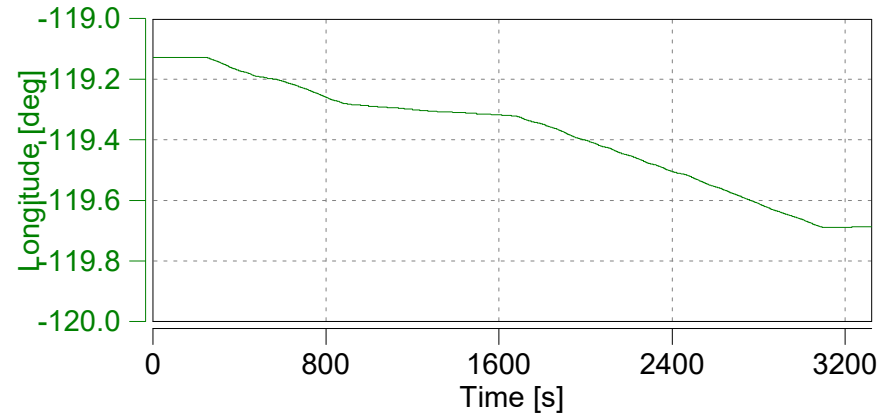
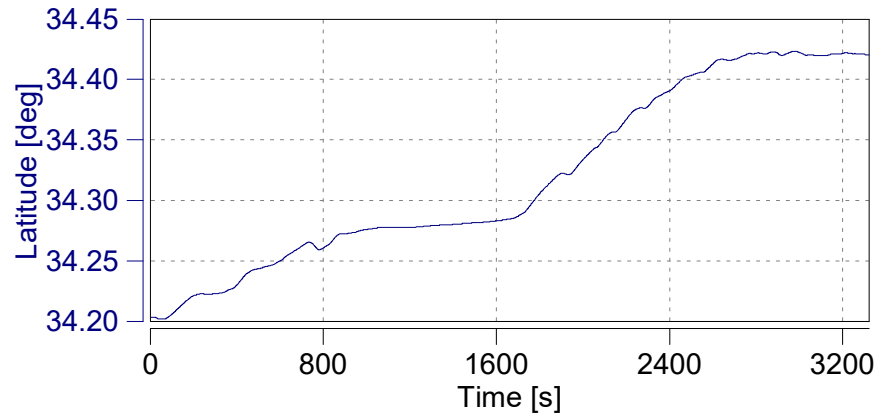
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0

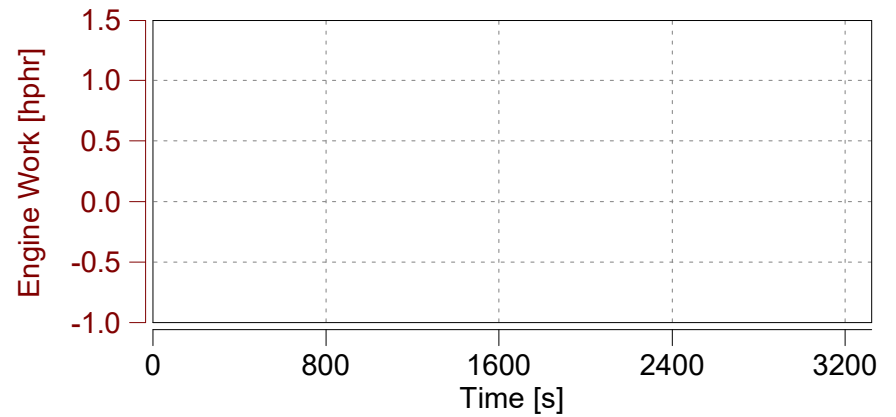
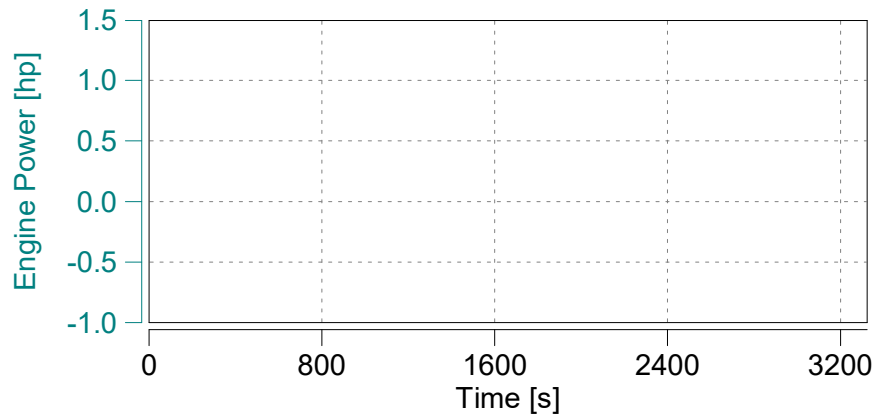
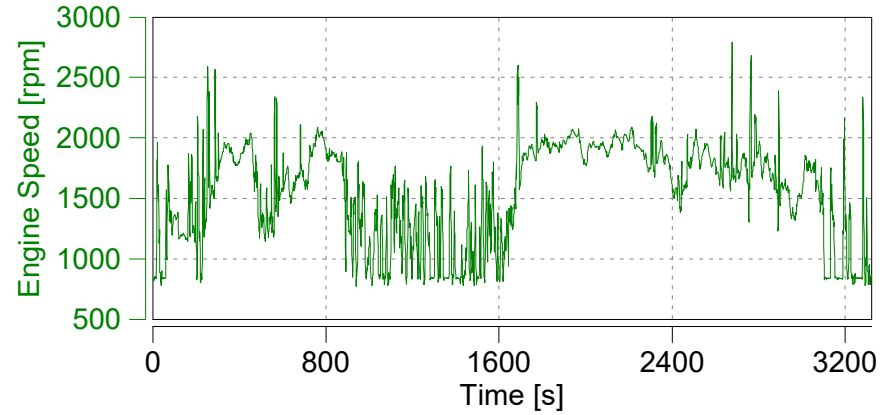
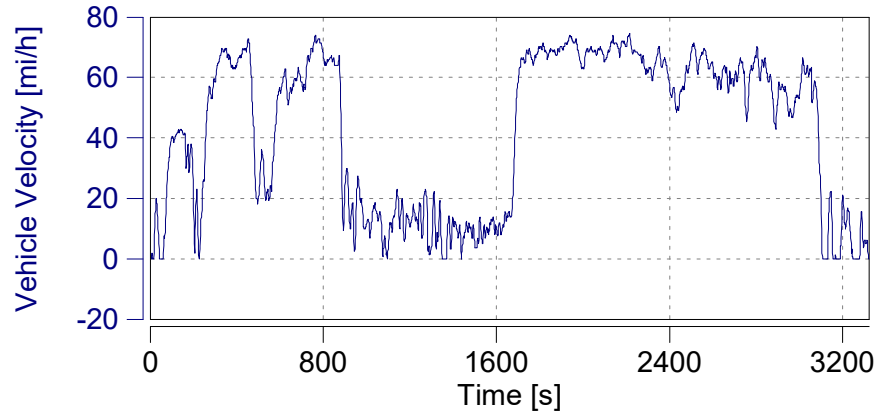


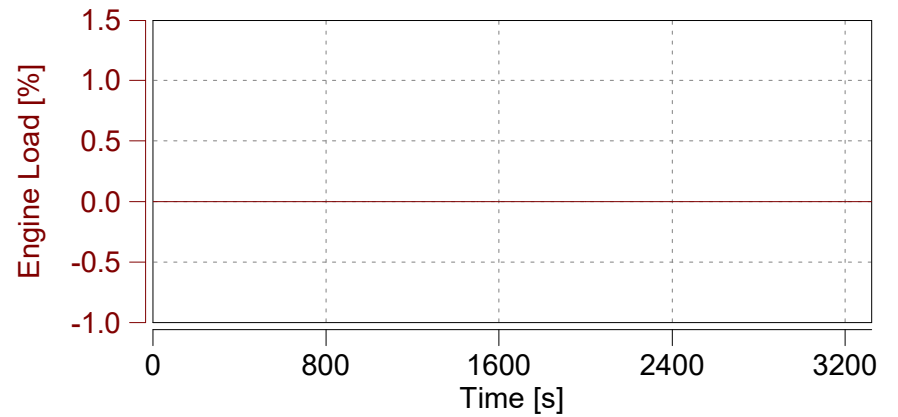
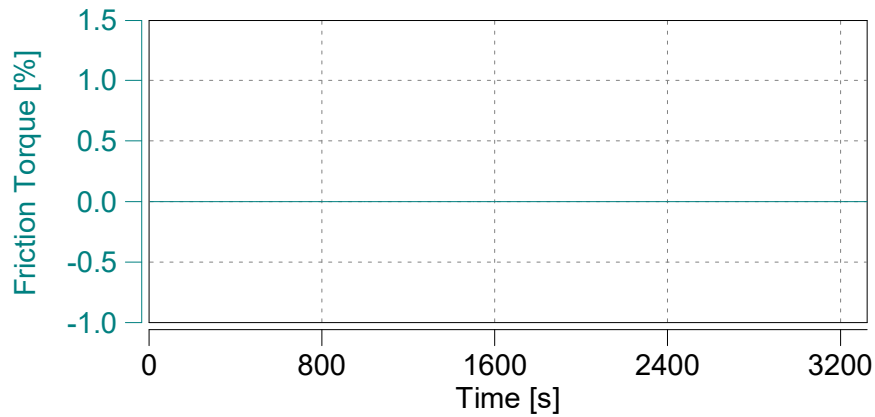
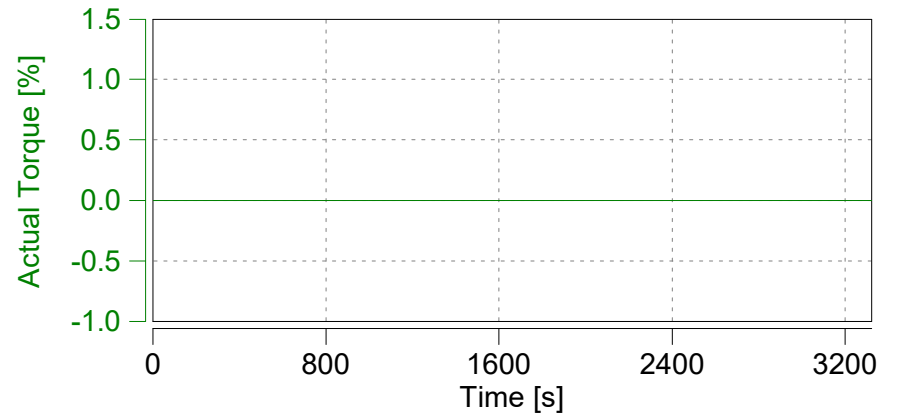
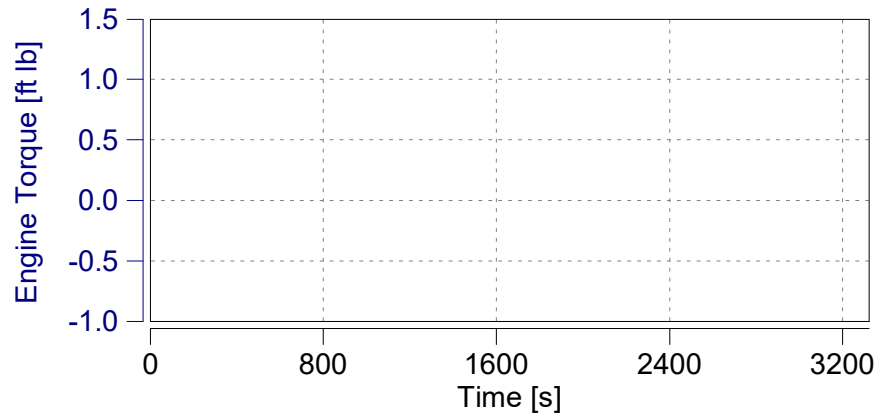
Concerto M.O.V.E., 2018

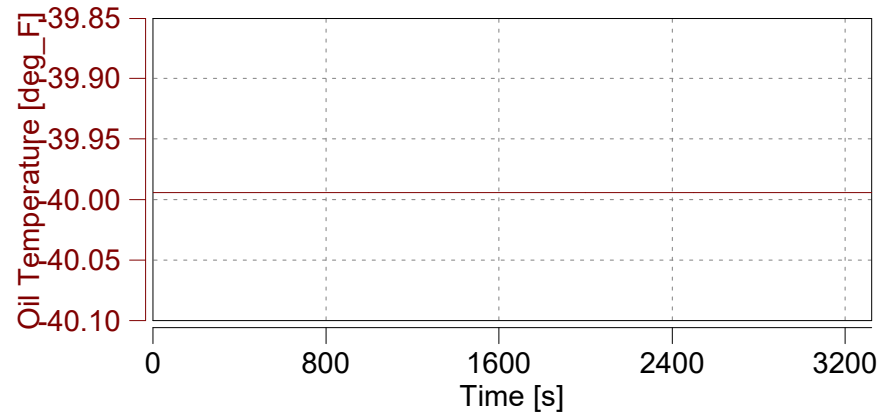
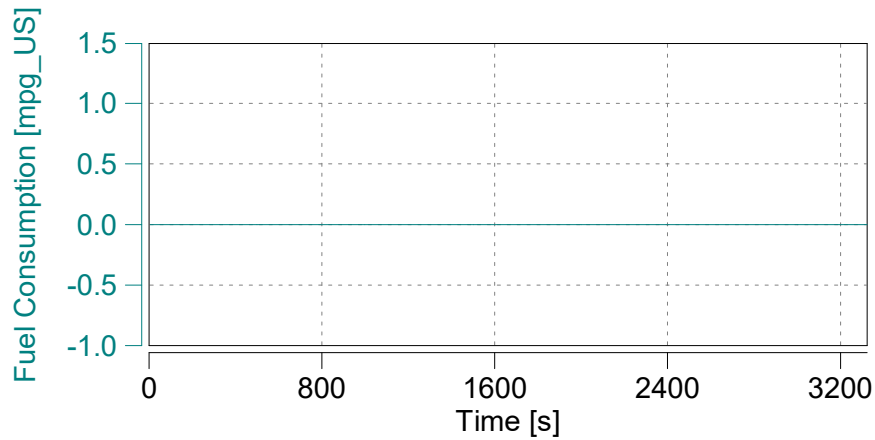
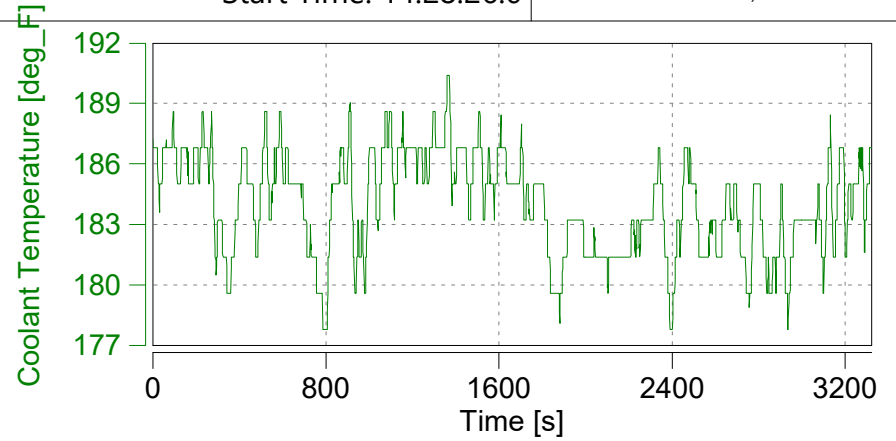
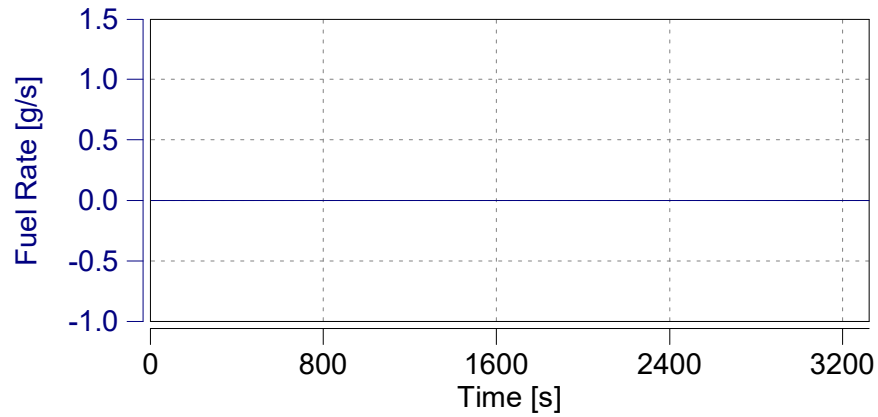


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90







Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

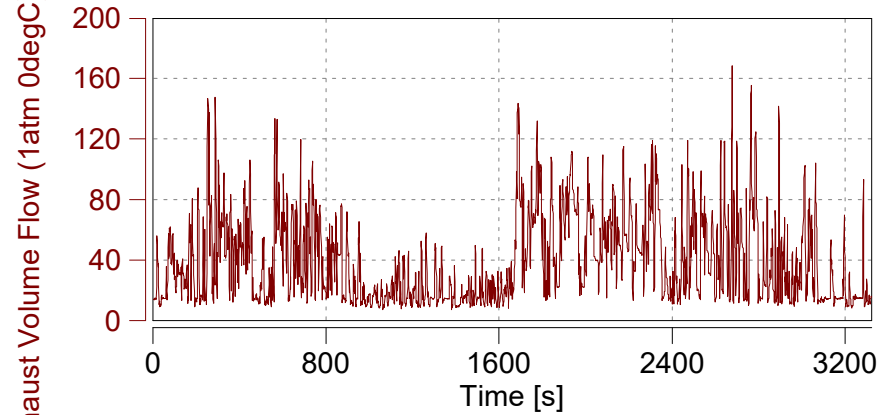
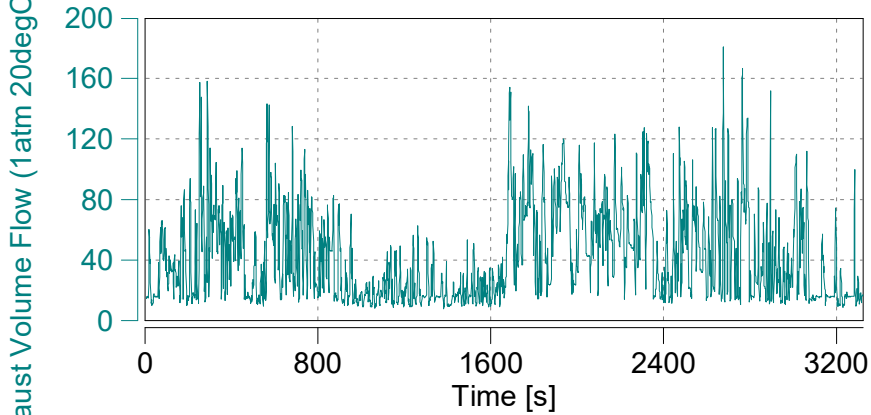
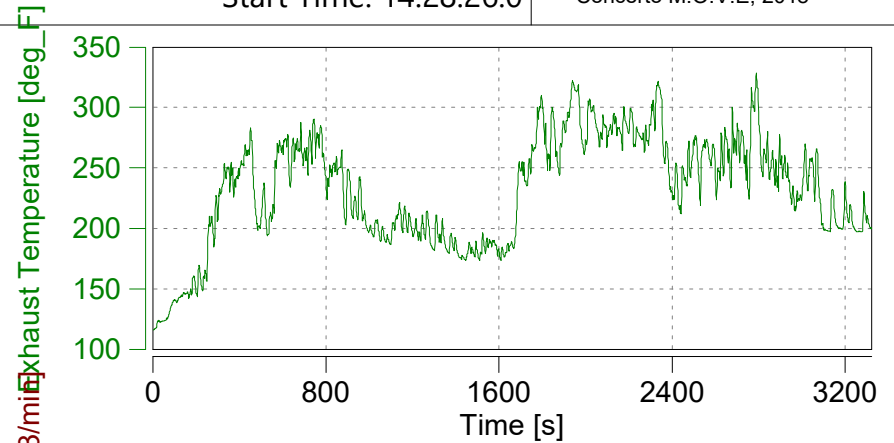
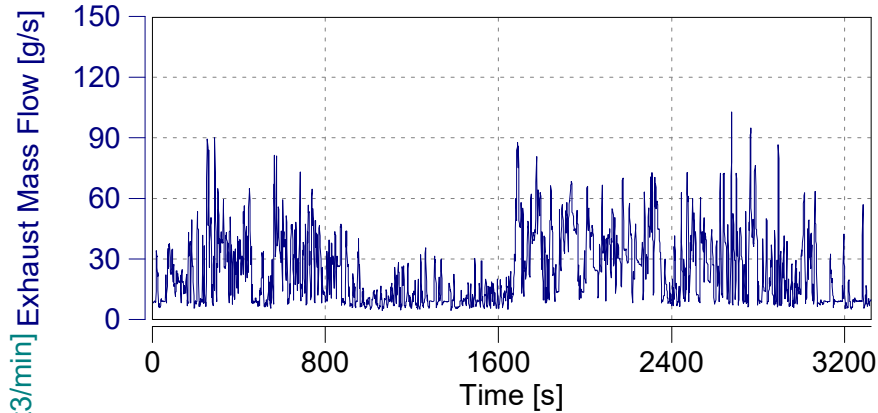
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (2)

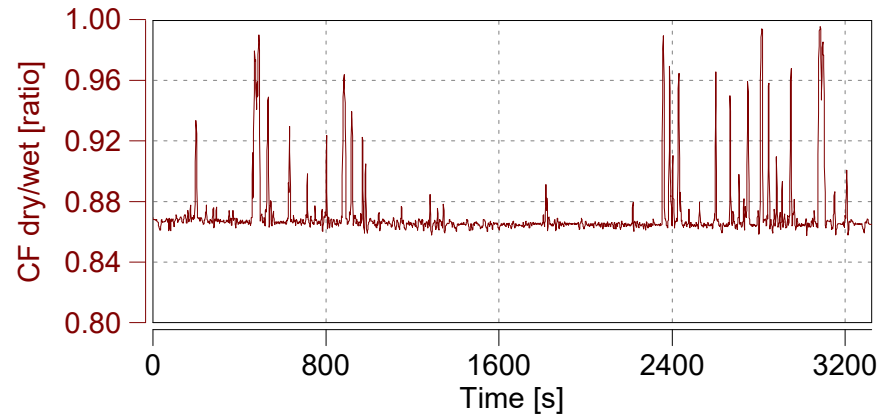
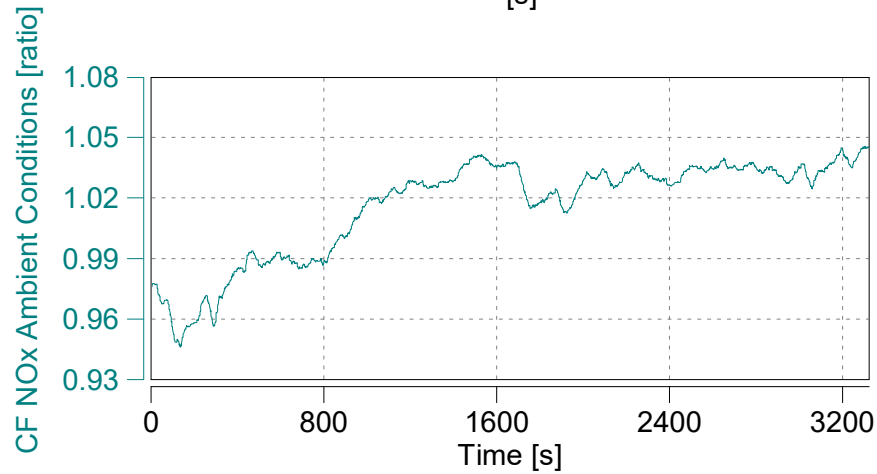
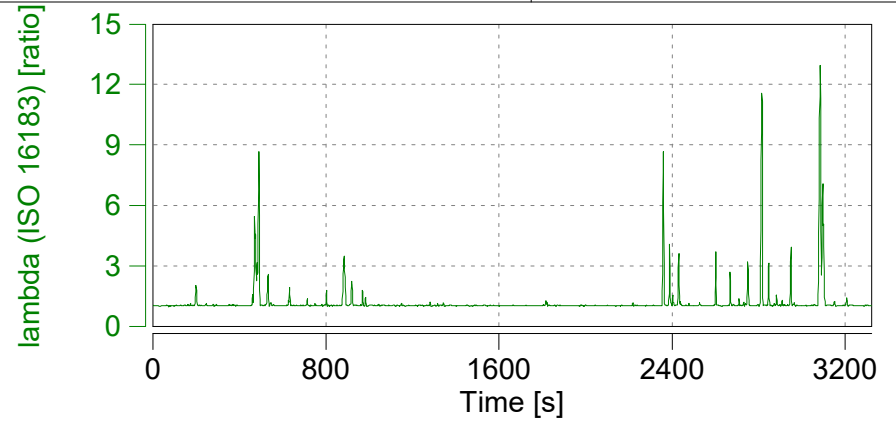
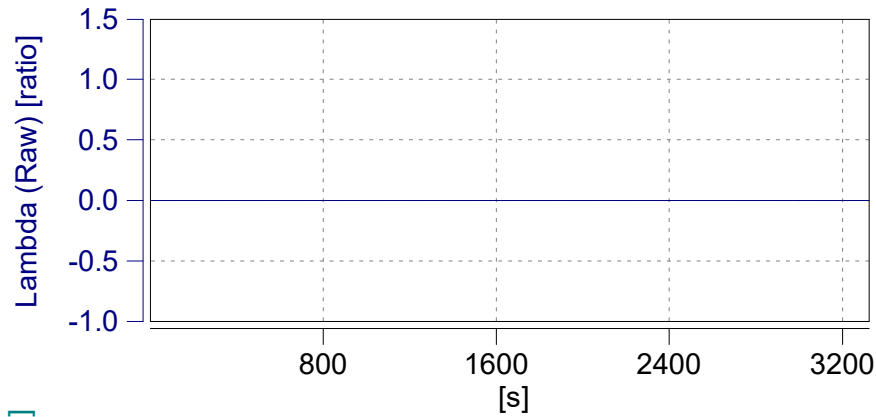
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

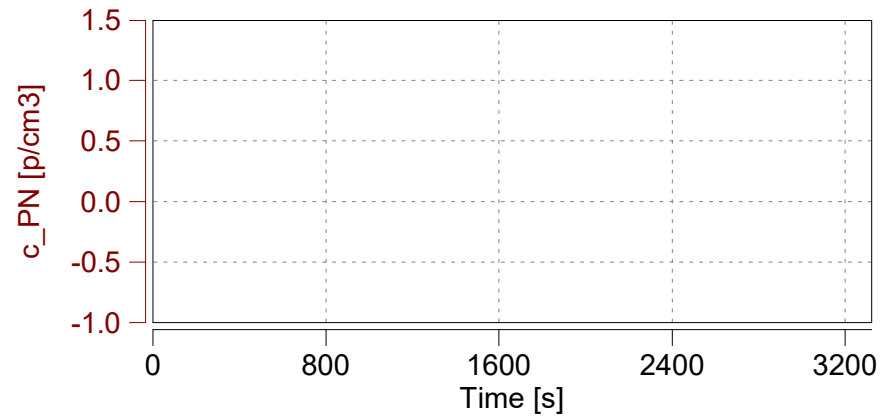
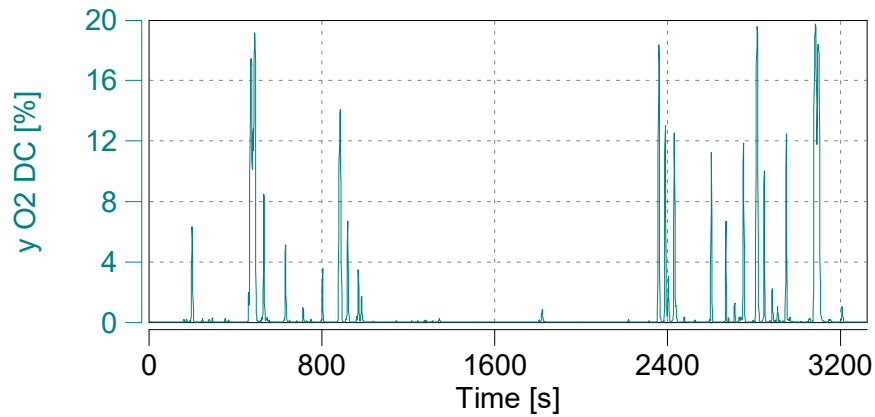
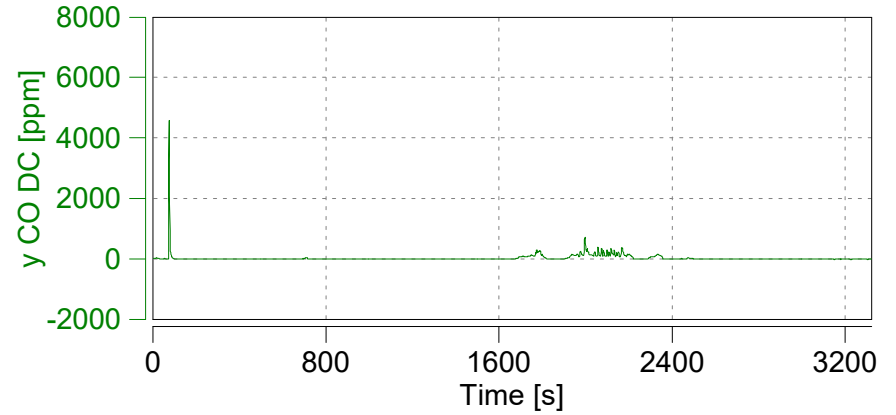
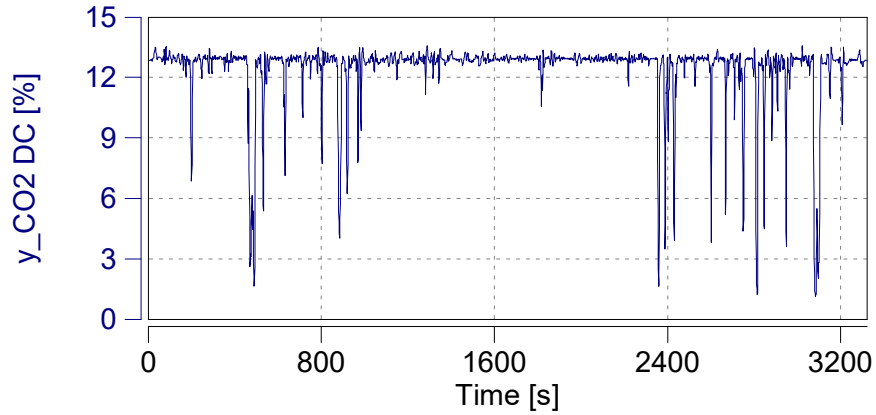
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (2)

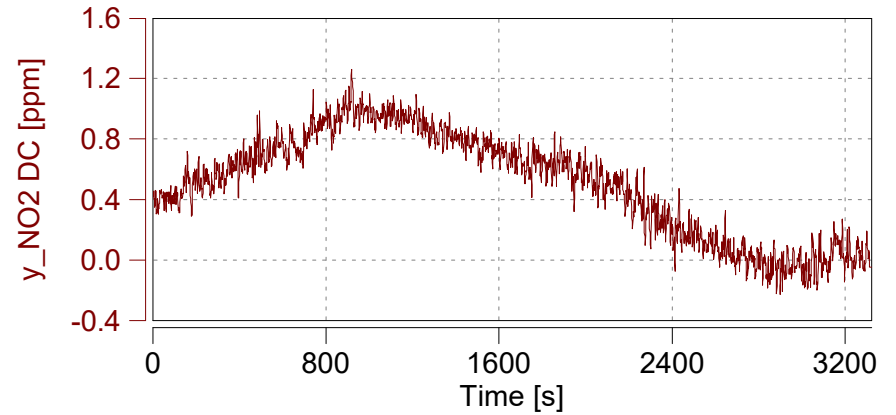
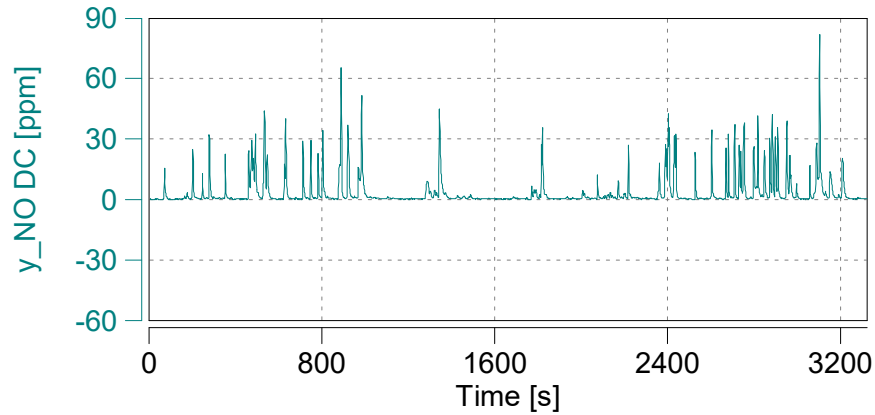
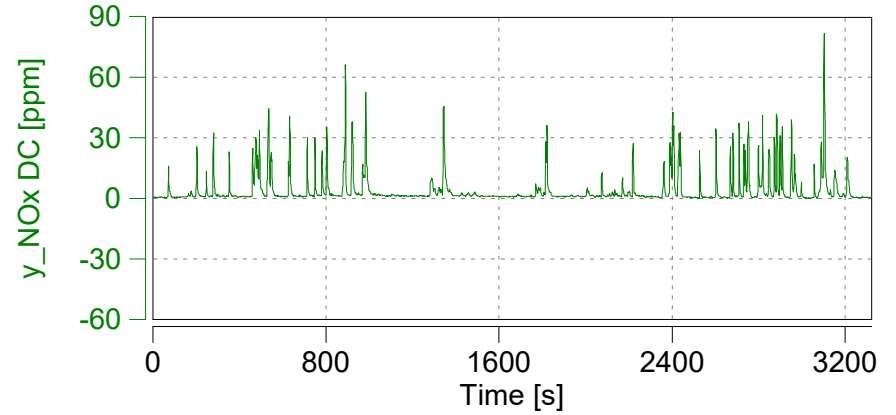
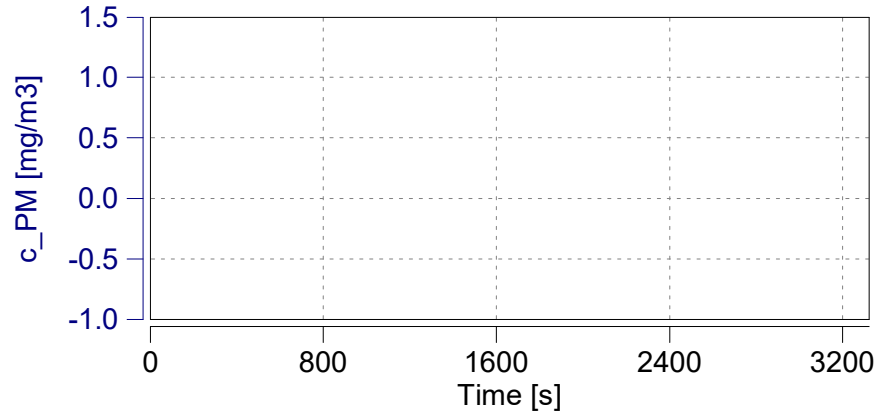
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0

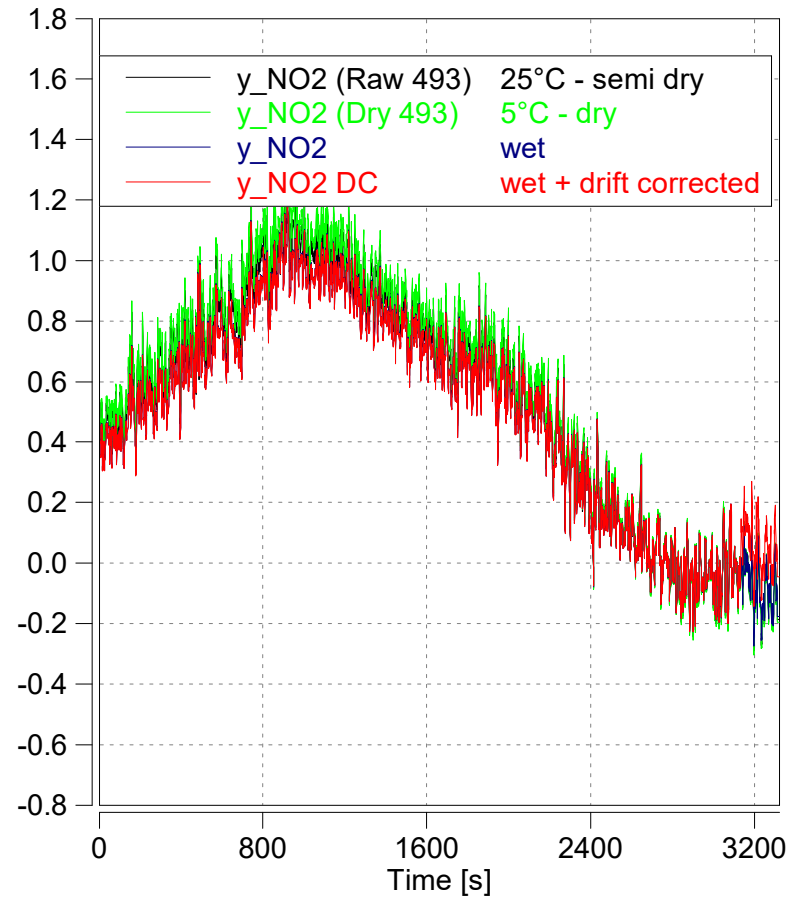
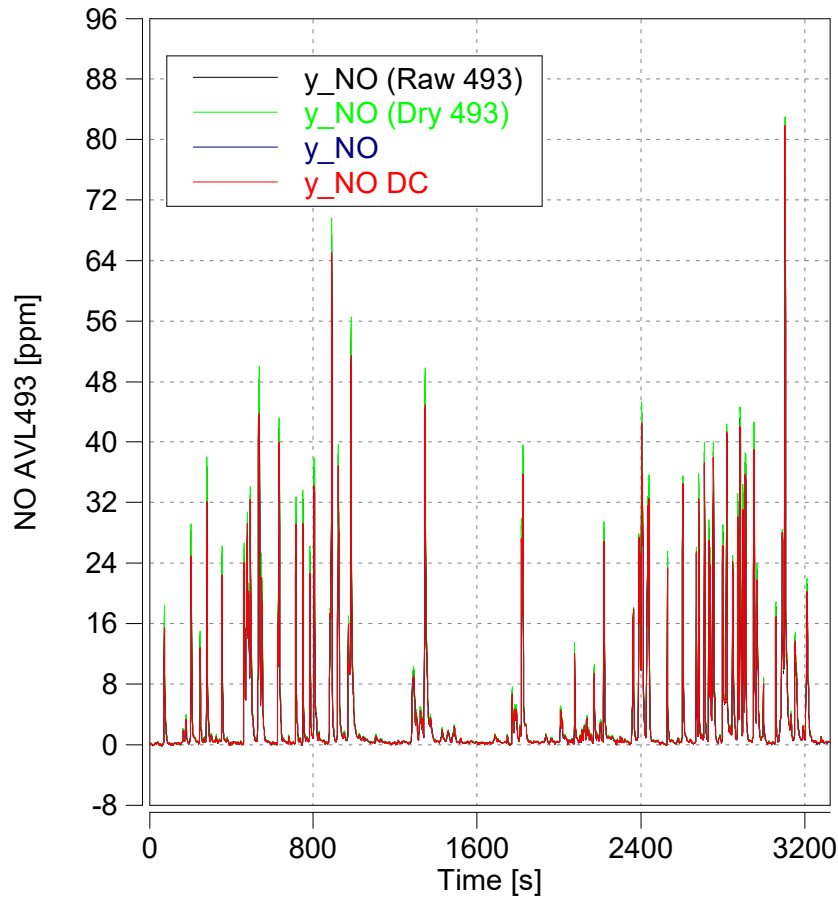


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

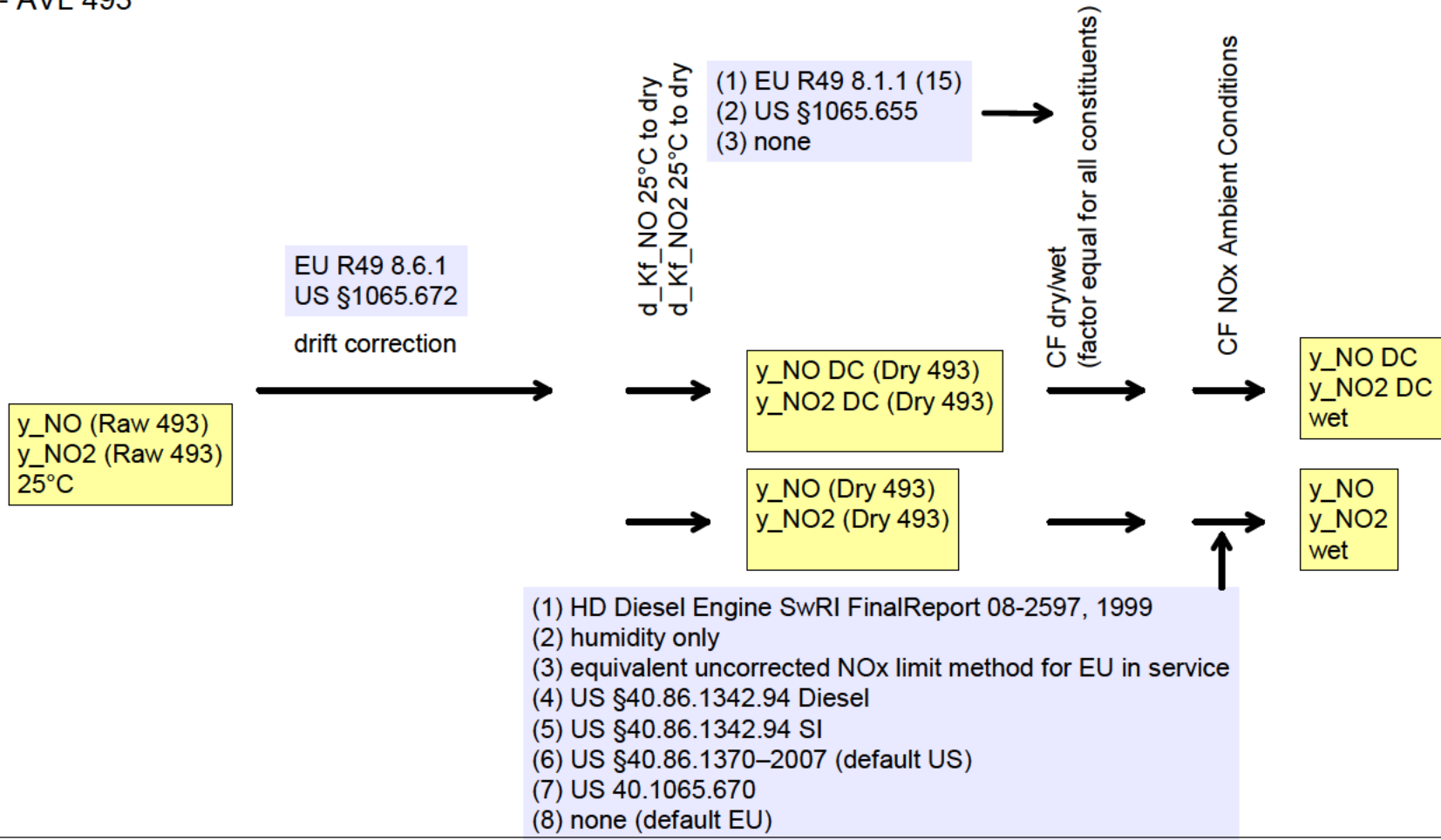


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

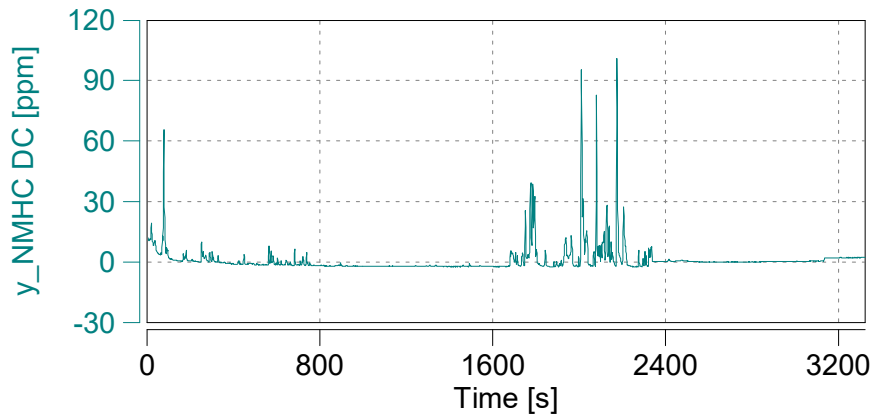
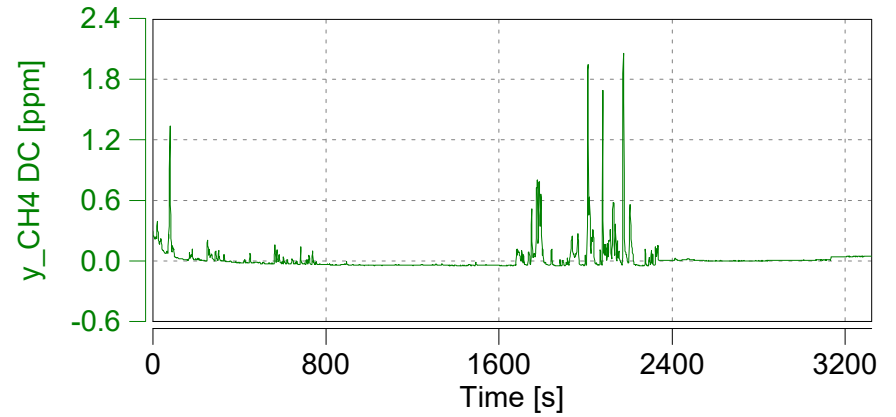
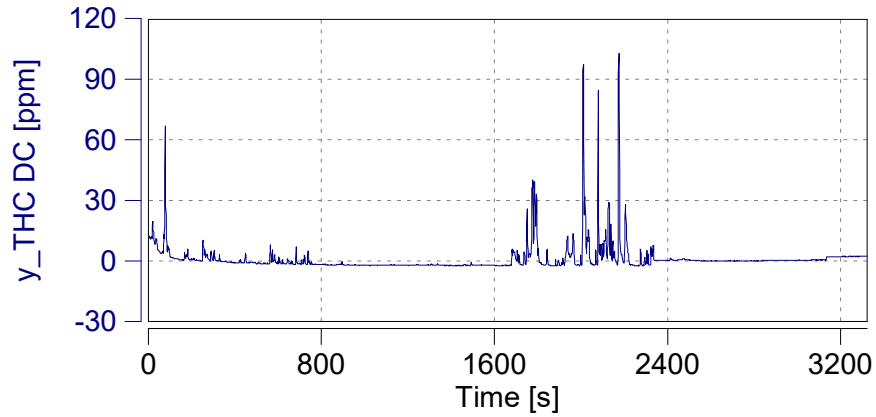
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

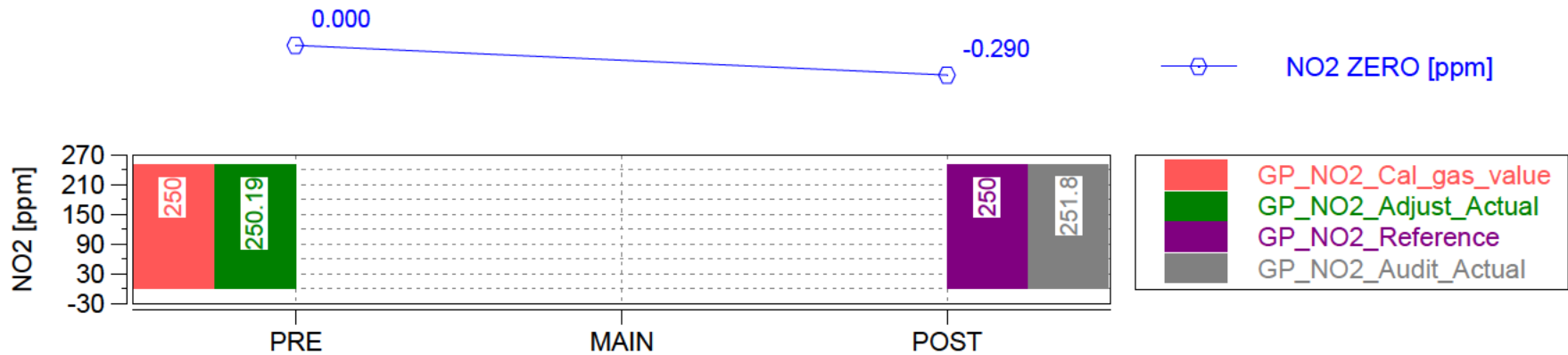
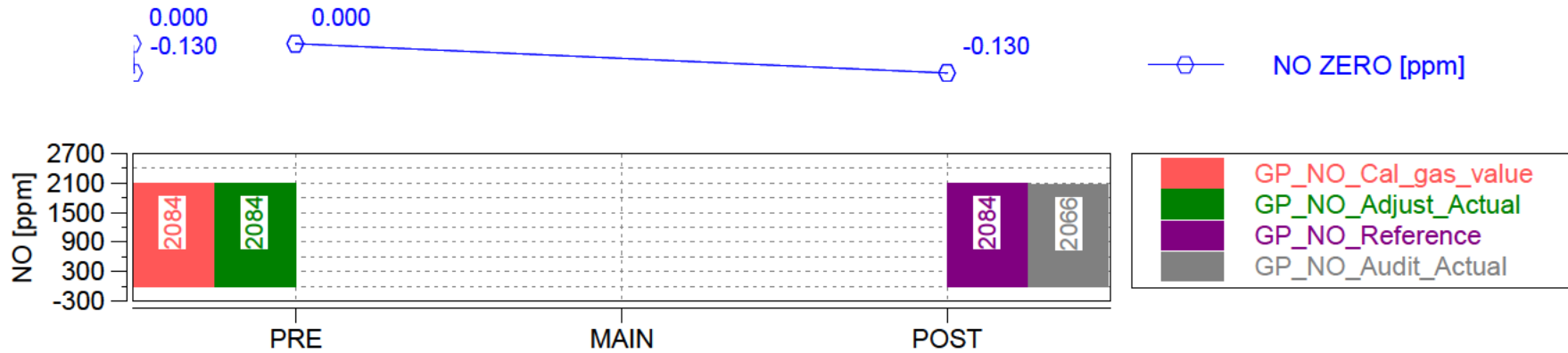
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

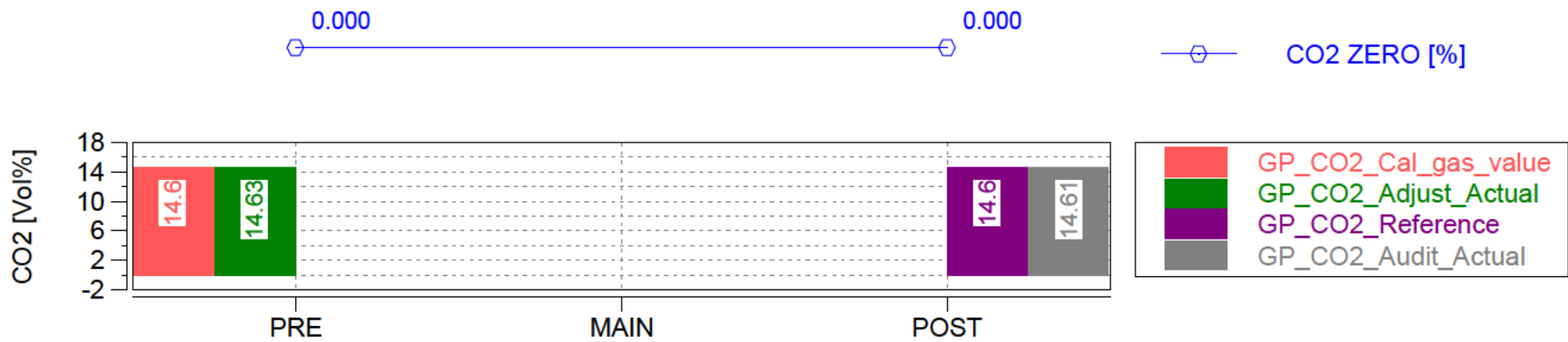
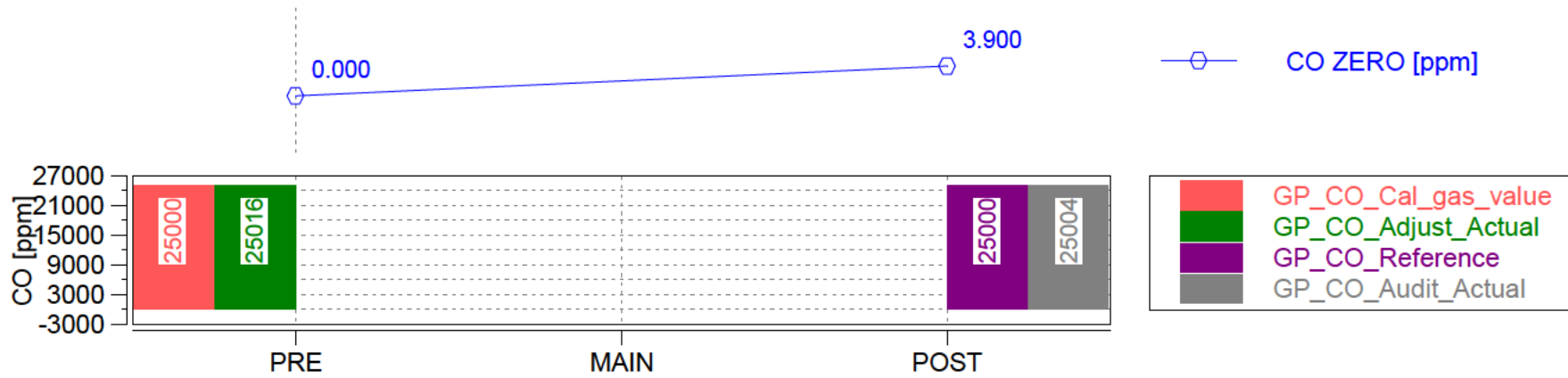
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Vehicle: Atlas / 3.6L

Engine: /

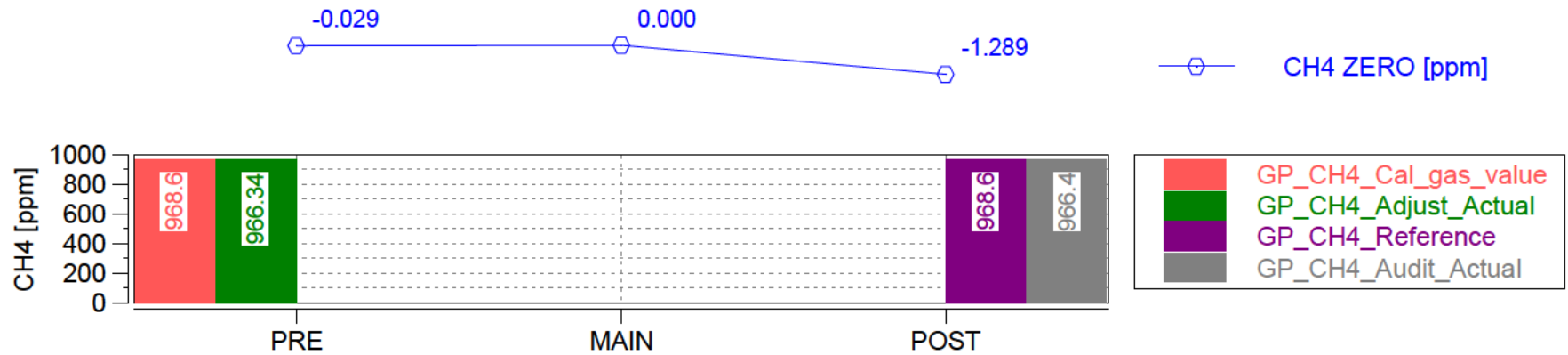
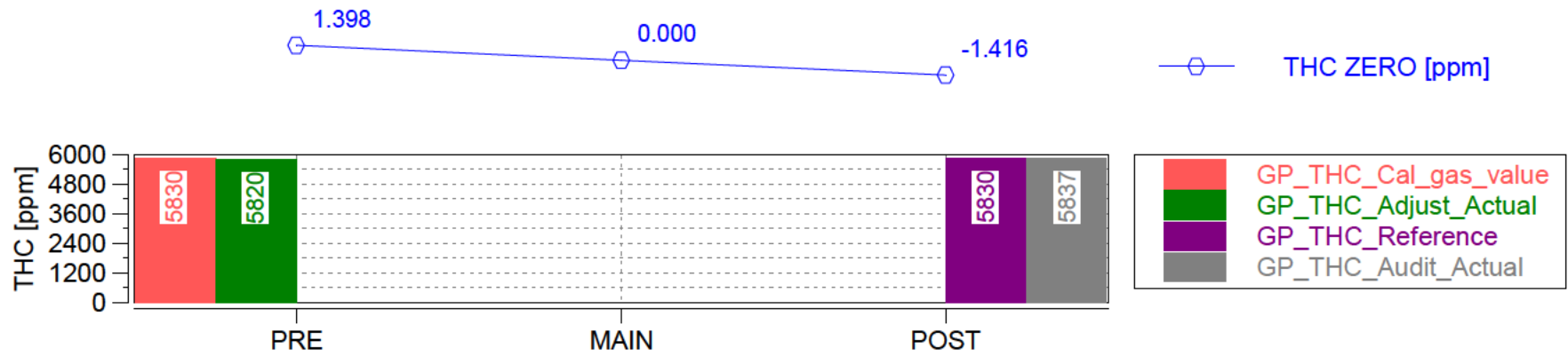
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 07/24/2019
Start Time: 17:57:59.0



Trip Duration	3398.00	s	ave THC	3.88827	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3398.00	s	ave NMHC	3.81050	ppm	BS CO	n/a	g/hphr
Trip Distance	29.36	mi	ave CH4	0.07777	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	29.36	mi	ave CO	29.86208	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	10.81631	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	5.03454	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.24	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.20	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.50	gall	tot THC	0.19902	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.48	gall	tot NMHC	0.18409	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00441	g	DS CO2	434.69913	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	6.17575	g	DS CO	0.21034	g/mi
Trip Fuel Economy EU (ac)	19.59	mpg_US	tot CO2	12763.27100	g	DS THC	0.00678	g/mi
Trip Fuel Economy US (ac)	19.80	mpg_US	tot NO (d)	0.29293	g	DS NMHC	0.00627	g/mi
Trip Av. Eng. Speed	1487.70	rpm	tot NO2	0.06886	g	DS CH4	0.00015	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.36179	g	DS NO (d)	0.00998	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00235	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01232	g/mi
Trip Exhaust Mass	70.27	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	85.89	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	39.73	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	31.10659	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	10.82990	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironmets\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Trip Duration	3398.00	s	ave THC DC	4.56811	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3398.00	s	ave NMHC DC	4.47675	ppm	BS CO DC	n/a	g/hphr
Trip Distance	29.36	mi	ave CH4 DC	0.09136	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	29.36	mi	ave CO DC	29.08362	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	10.81261	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	5.17168	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.24	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.20	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC DC	0.22035	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.50	gall	tot NMHC DC	0.20383	g			
Trip Fuel Cons. Volume US (ac)	1.48	gall	tot CH4 DC	0.00488	g	DS CO2 DC	434.55031	g/mi
			tot CO DC	6.14042	g	DS CO DC	0.20913	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	12758.90151	g	DS THC DC	0.00750	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.29471	g	DS NMHC DC	0.00694	g/mi
Trip Fuel Economy EU (ac)	19.59	mpg_US	tot NO2 DC	0.07884	g	DS CH4 DC	0.00017	g/mi
Trip Fuel Economy US (ac)	19.80	mpg_US	tot NOx DC	0.37355	g	DS NO DC (d)	0.01004	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00269	g/mi
Trip Av. Eng. Speed	1487.70	rpm	tot Soot meas	n/a	g	DS NOx DC	0.01272	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	70.27	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	85.89	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	39.73	%	Trip Av. Veh. Speed	31.10659	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	10.82990	%	FS NO DC (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

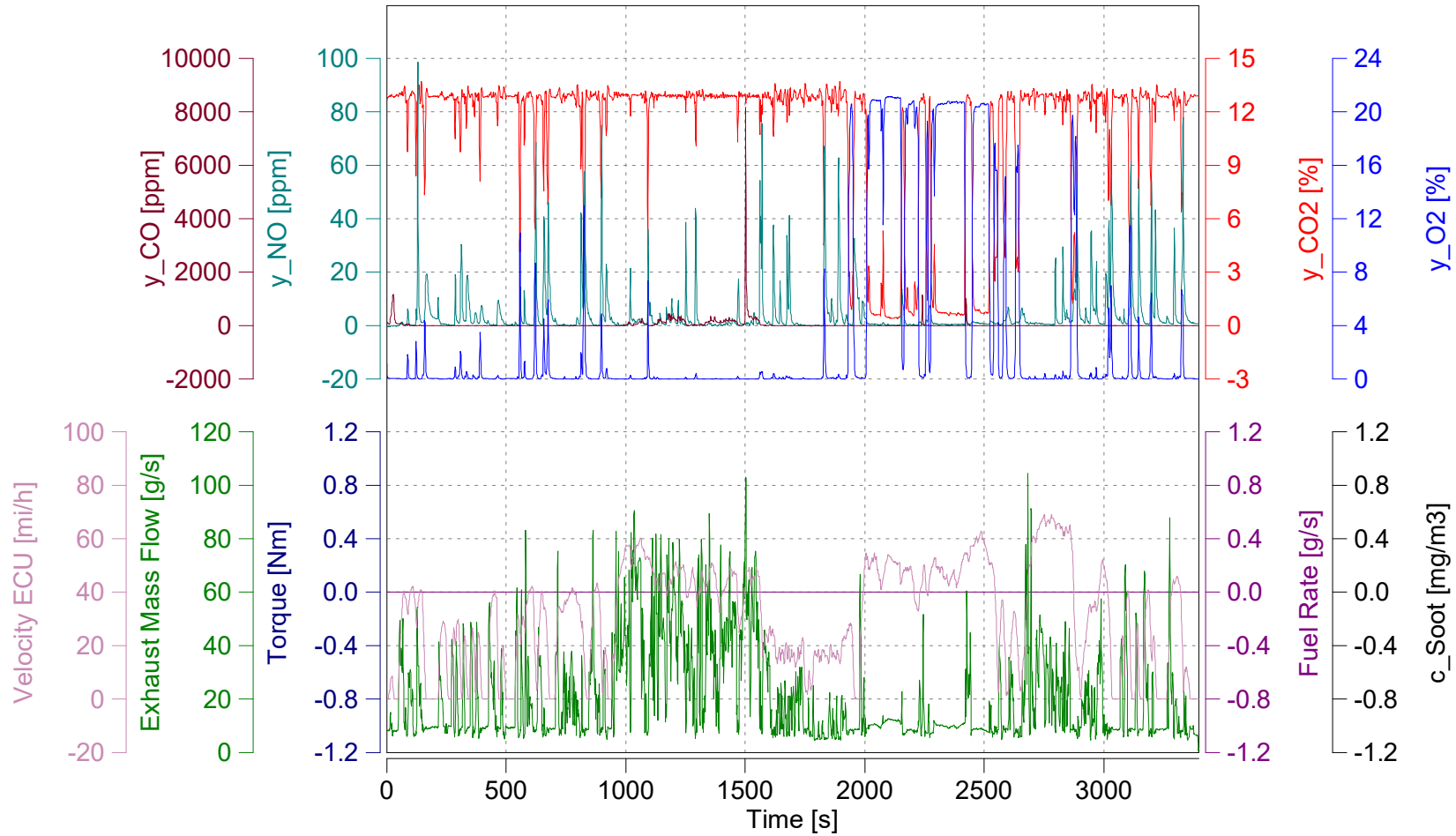
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Vehicle: Atlas / 3.6L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

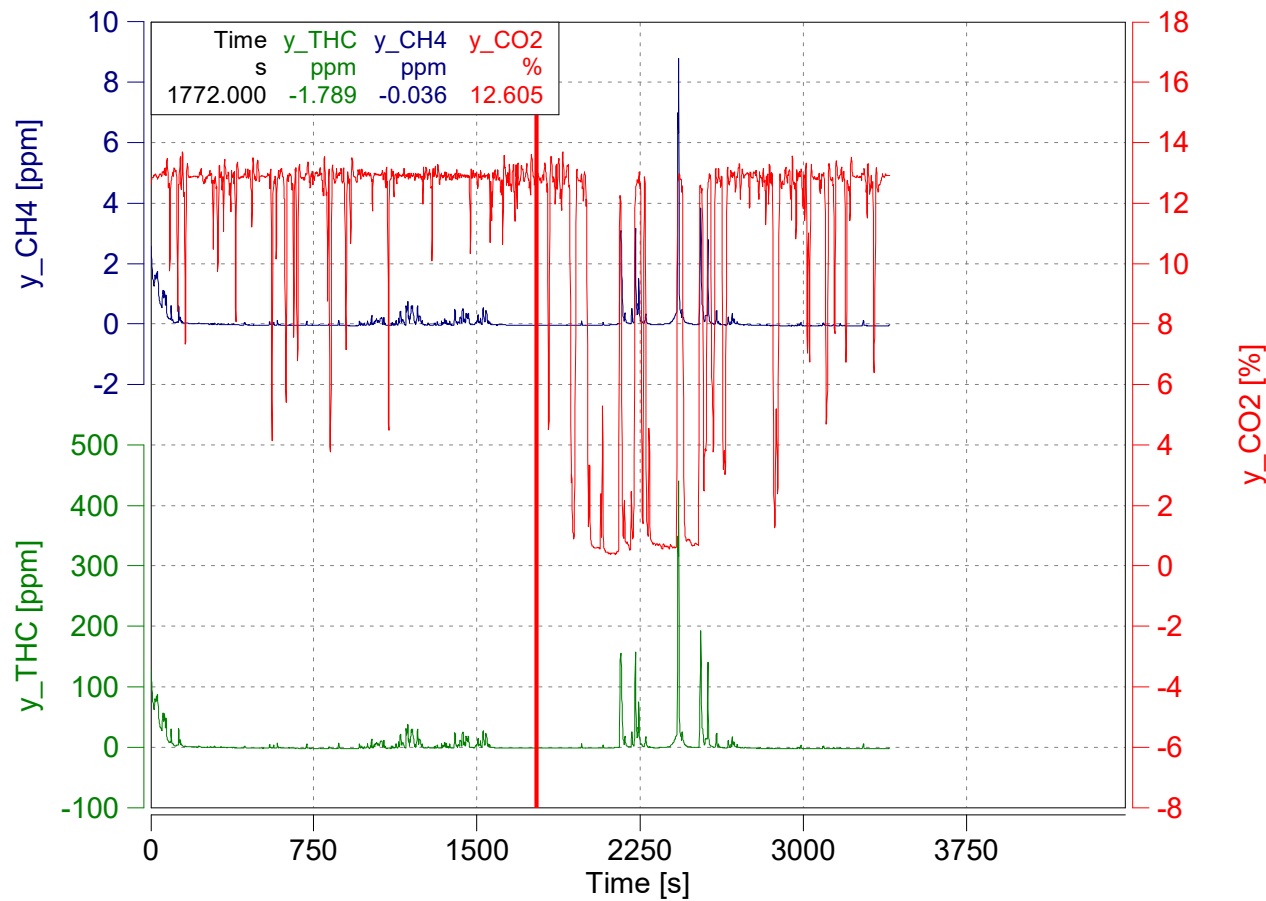
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Vehicle: Atlas / 3.6L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain

Page: Ambient Conditions

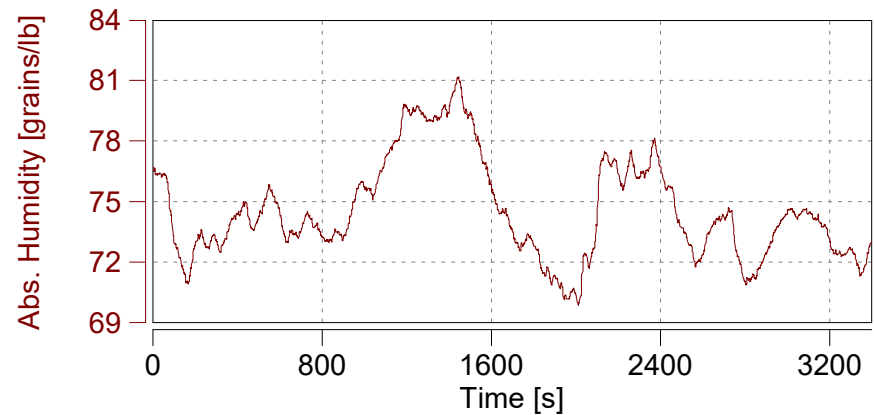
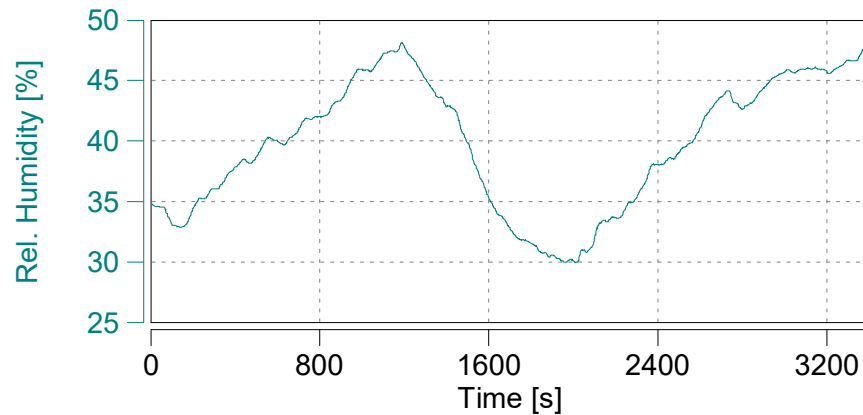
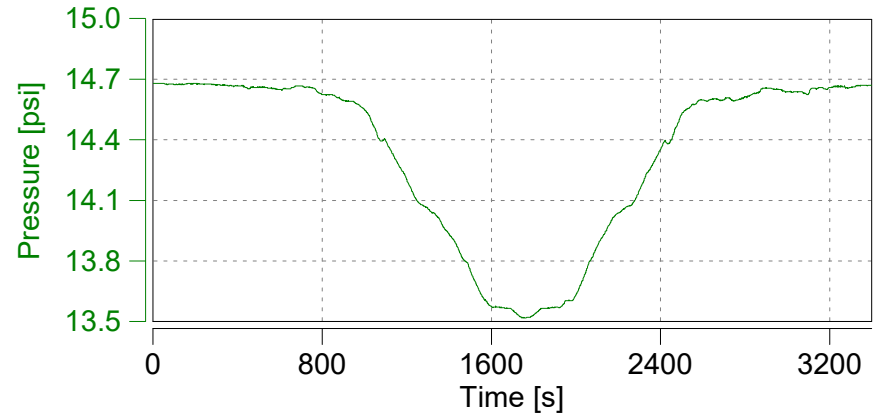
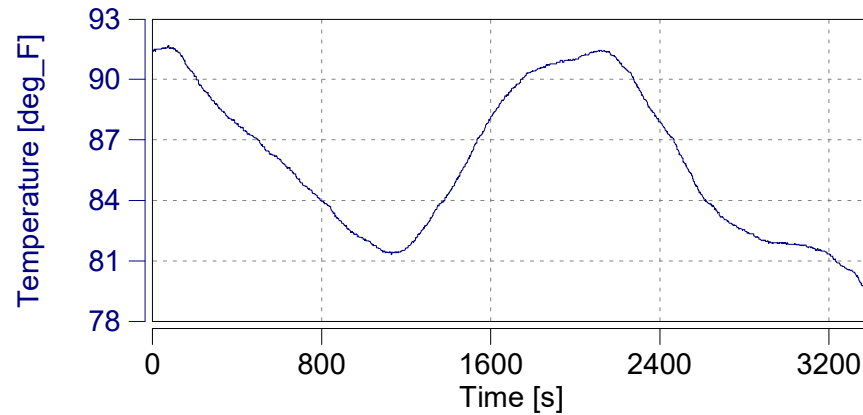
'Mountain'

Start Date: 07/24/2019

Start Time: 17:57:59.0

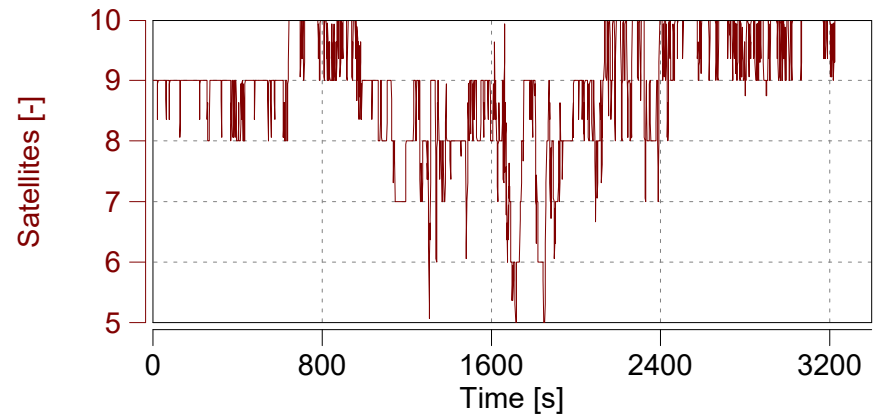
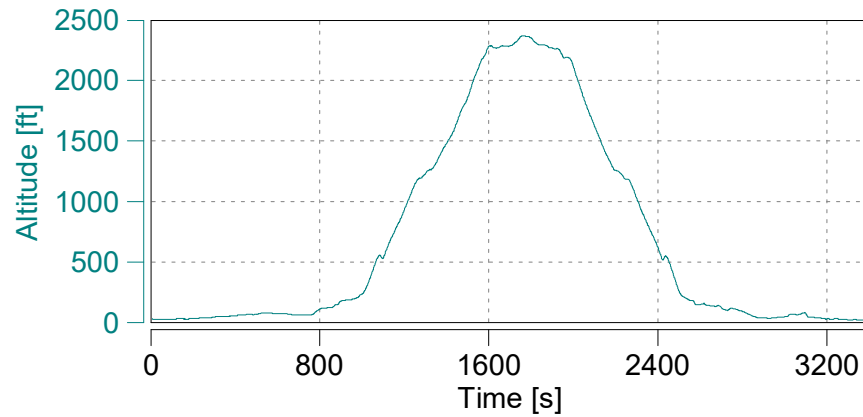
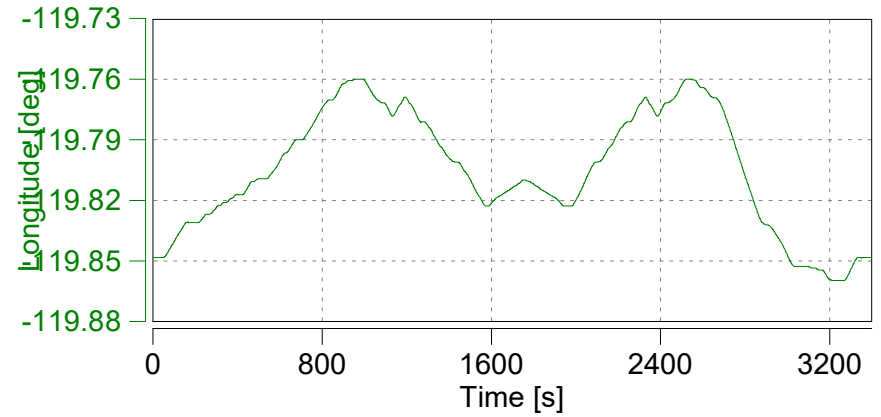
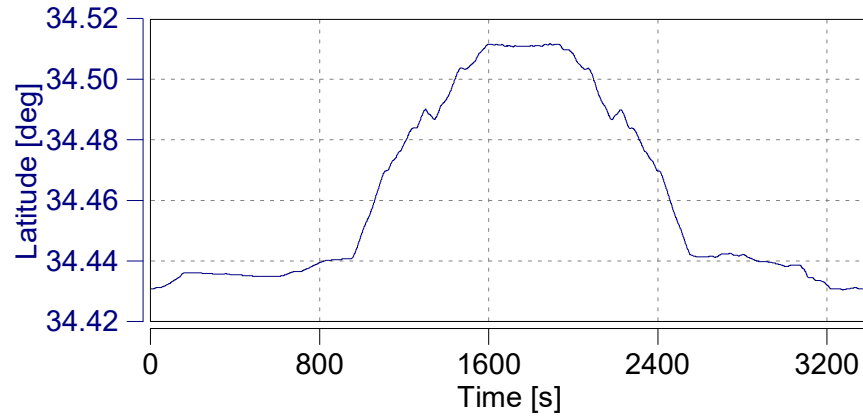


Concerto M.O.V.E., 2018



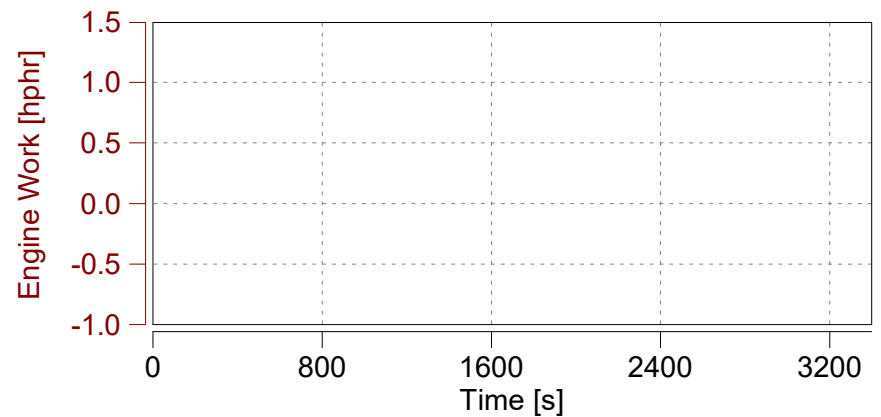
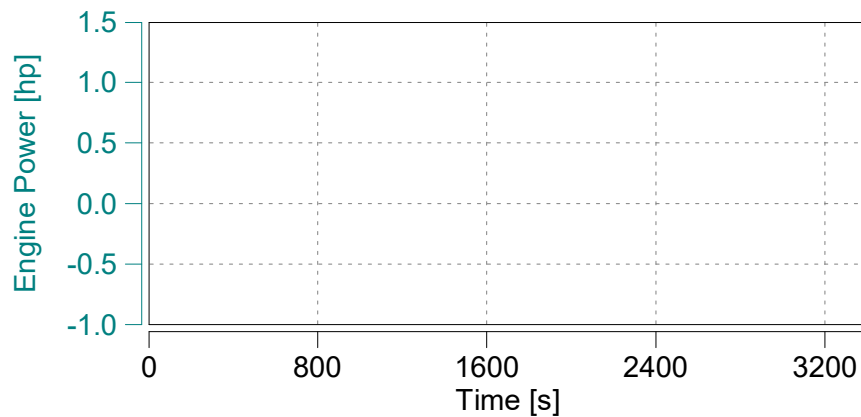
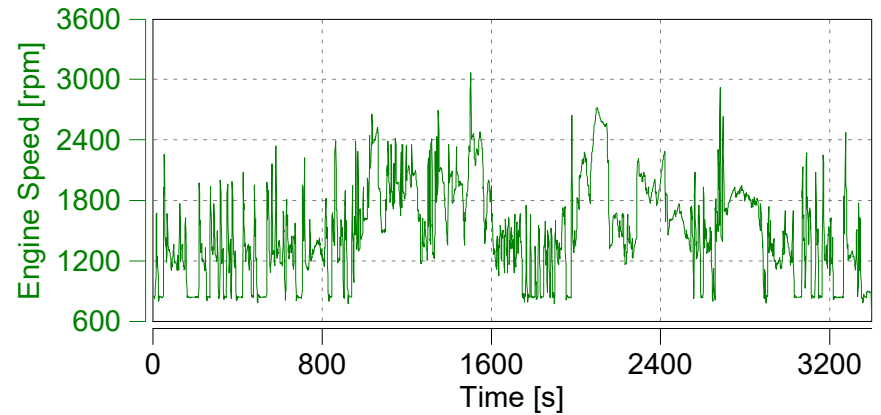
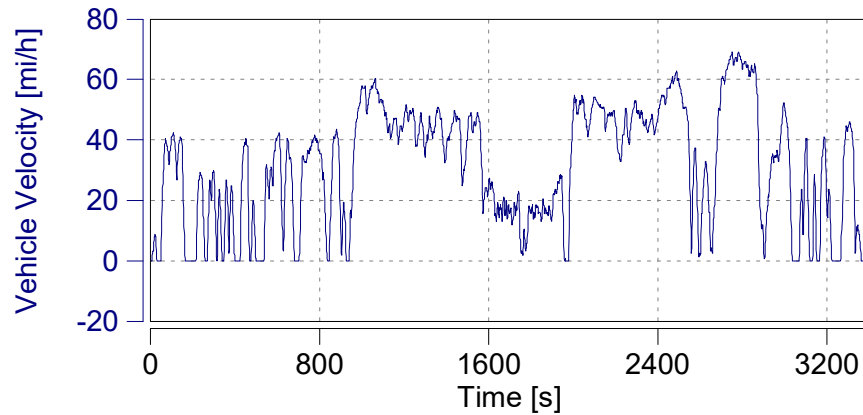
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



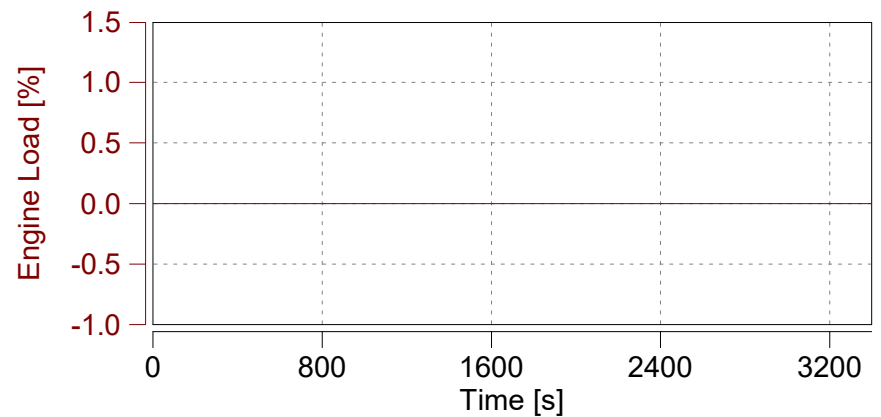
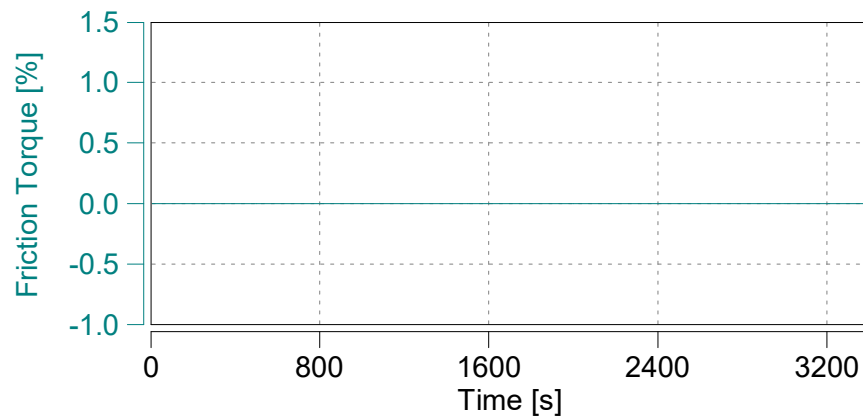
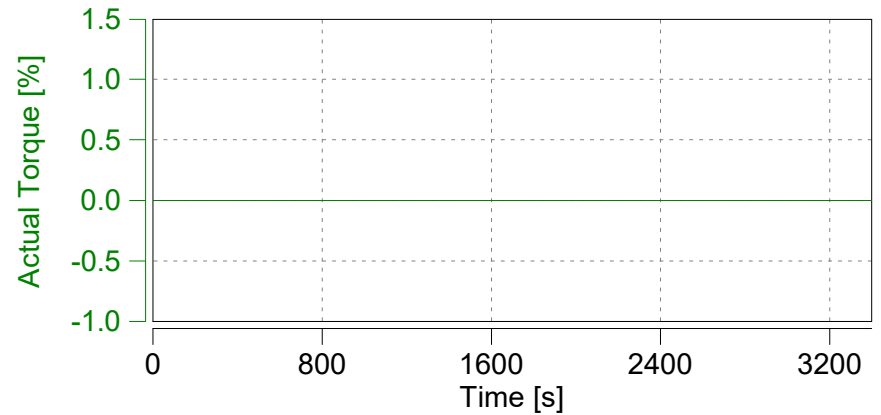
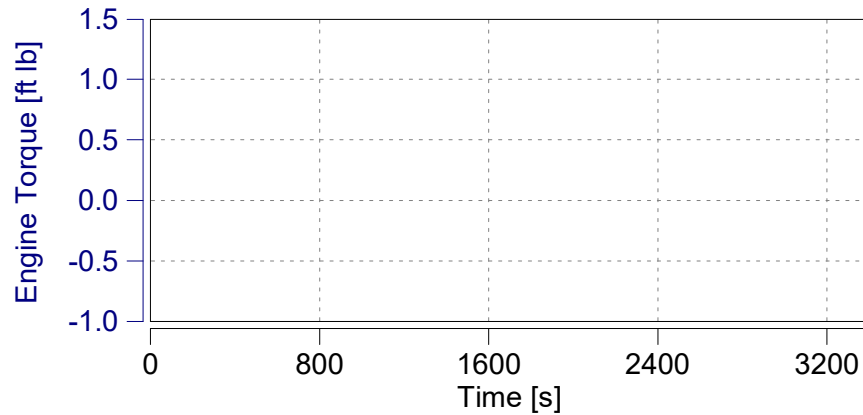
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



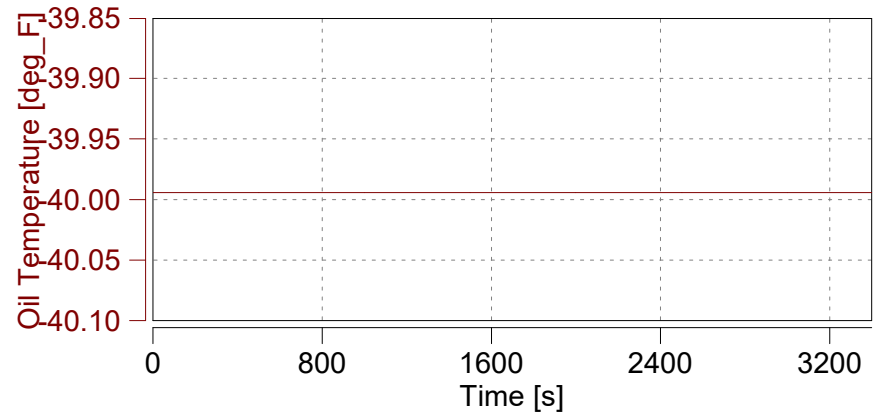
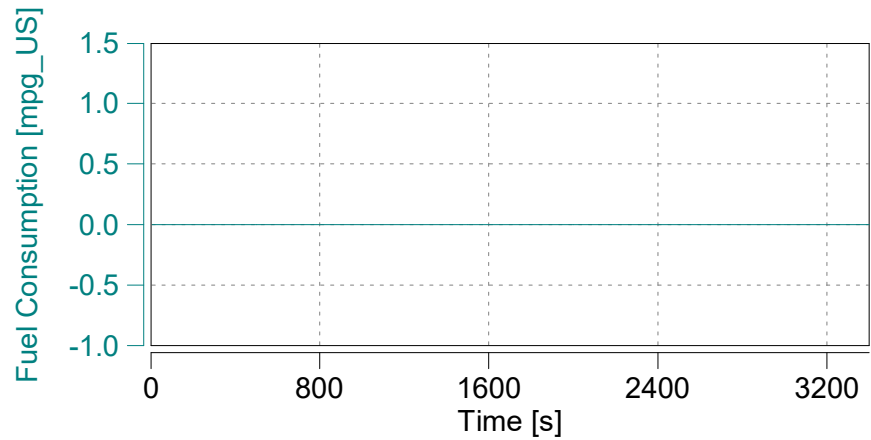
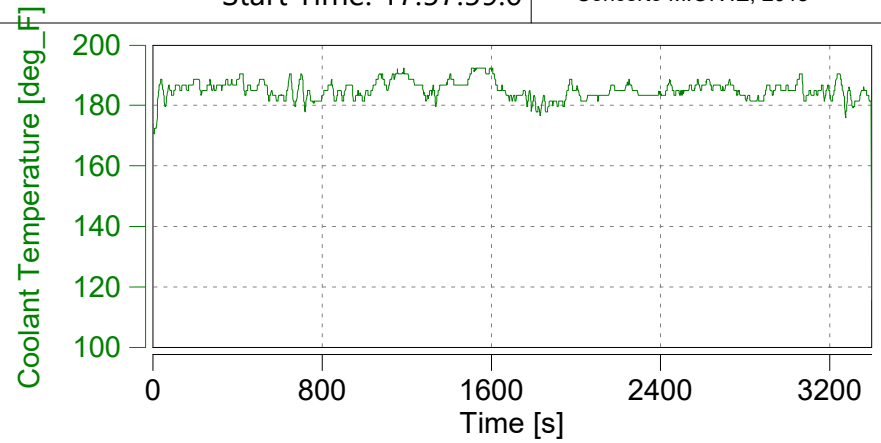
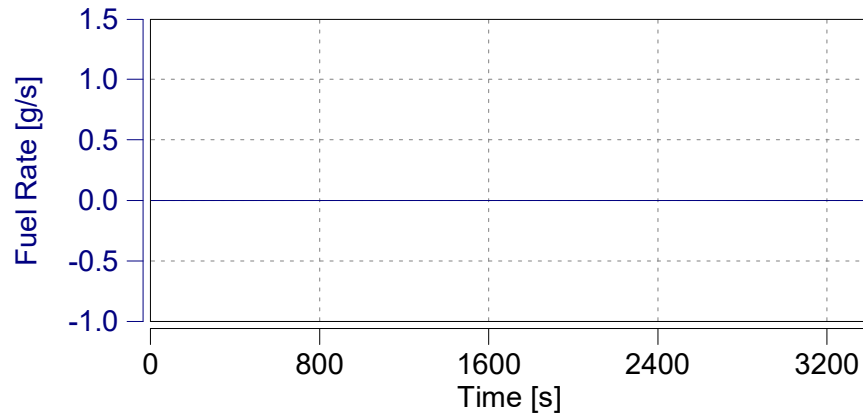
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



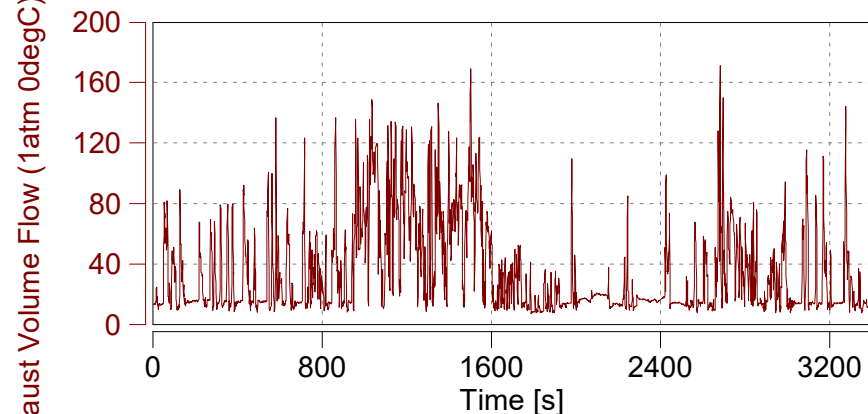
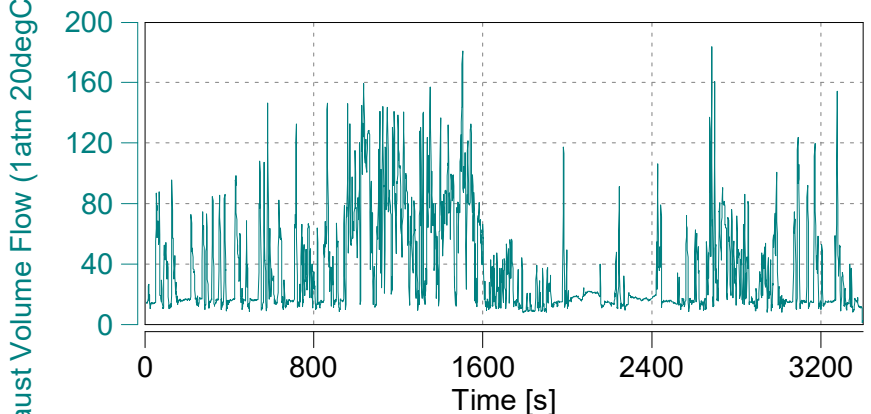
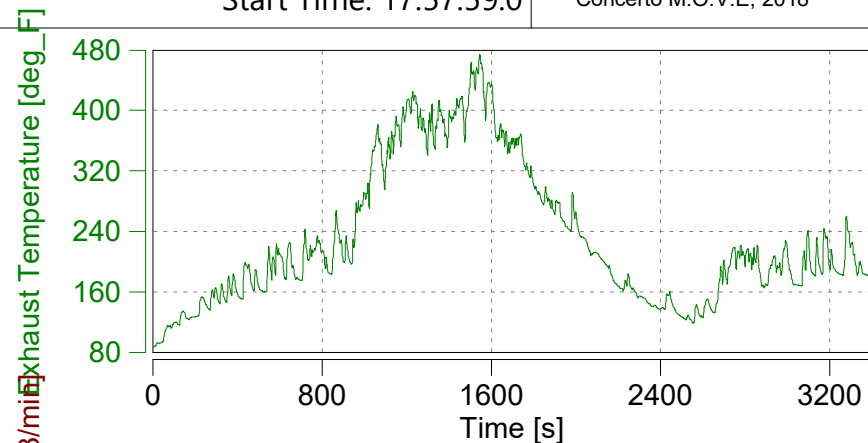
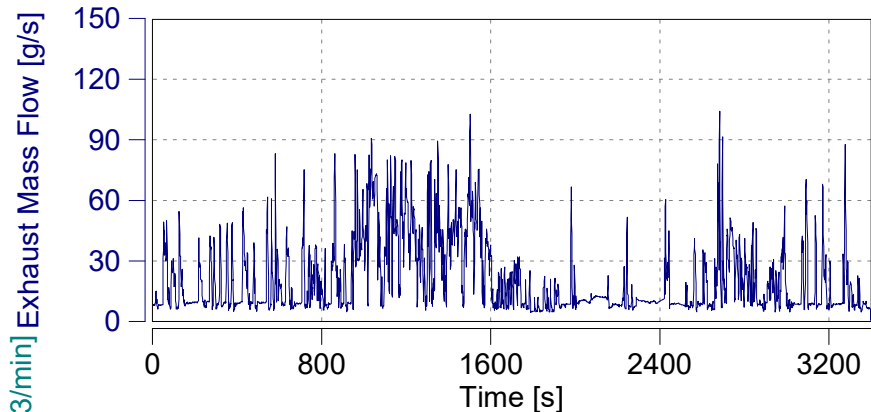
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



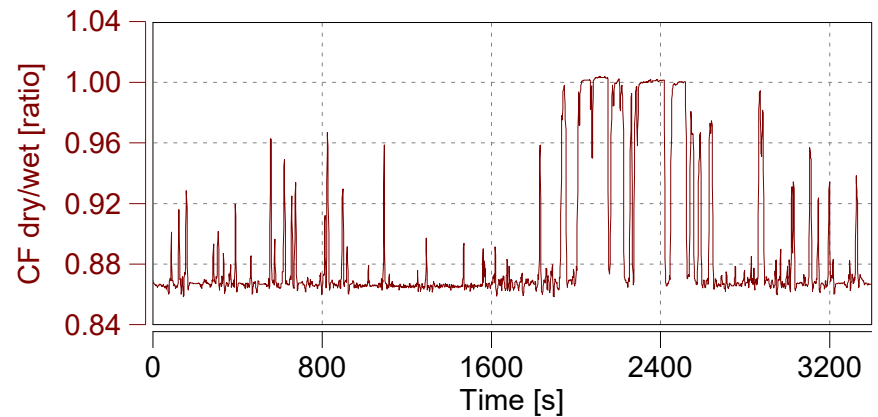
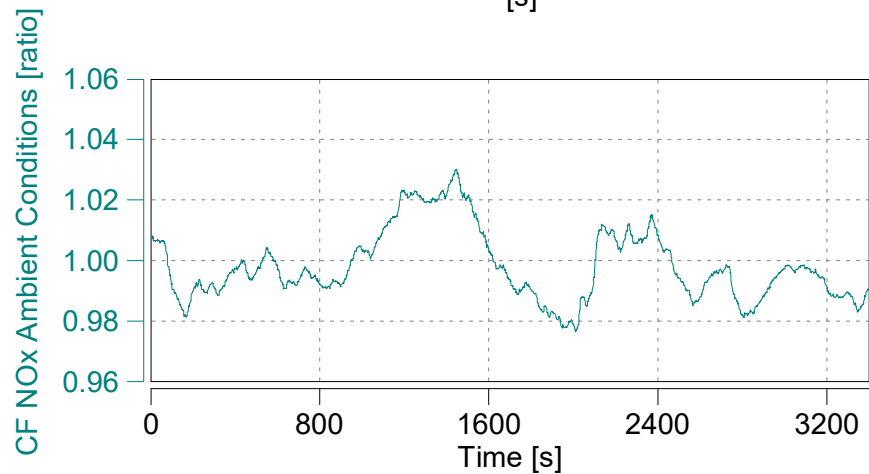
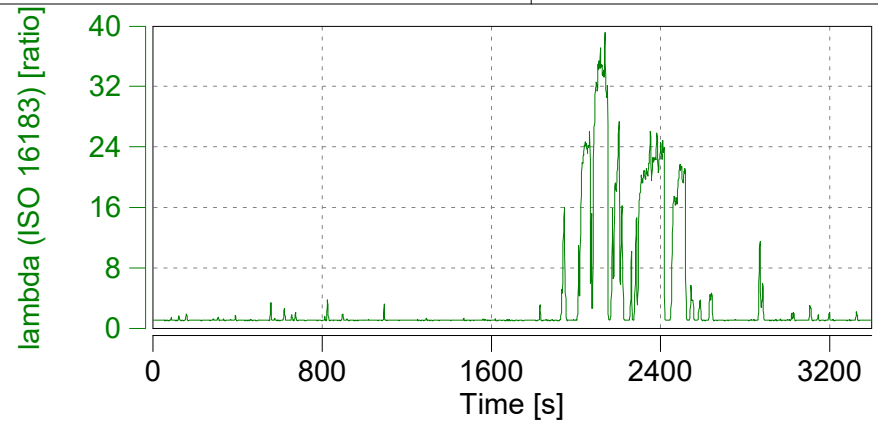
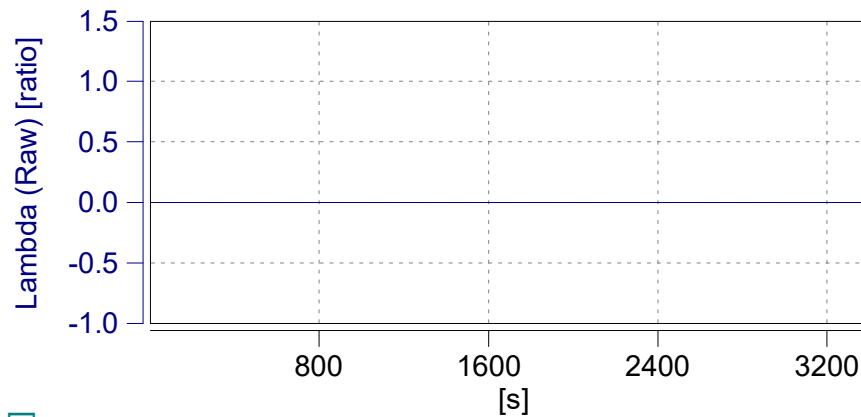
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain

Page: Corrected Emissions (1)

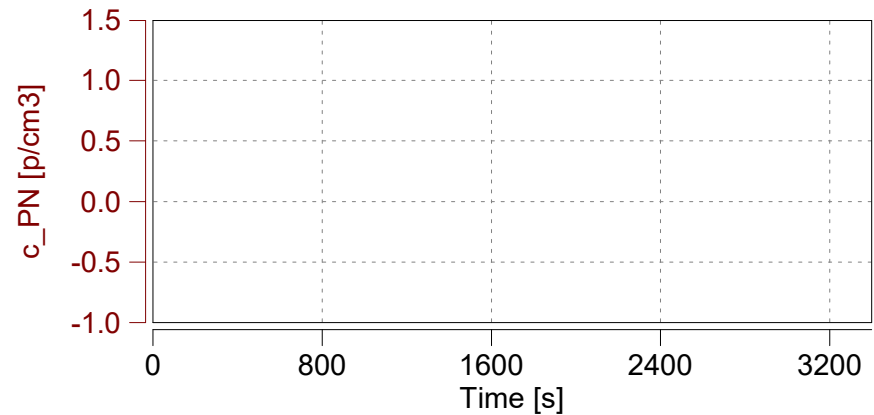
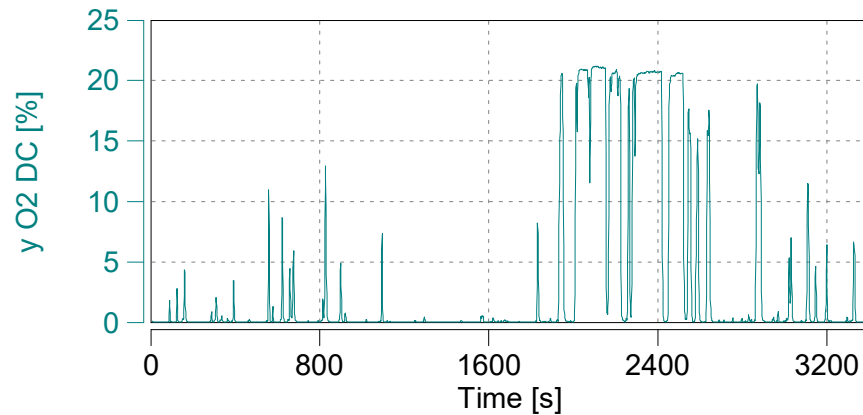
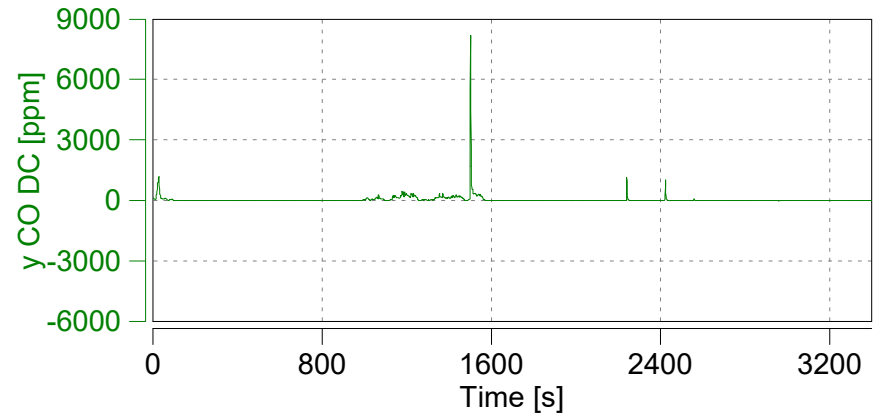
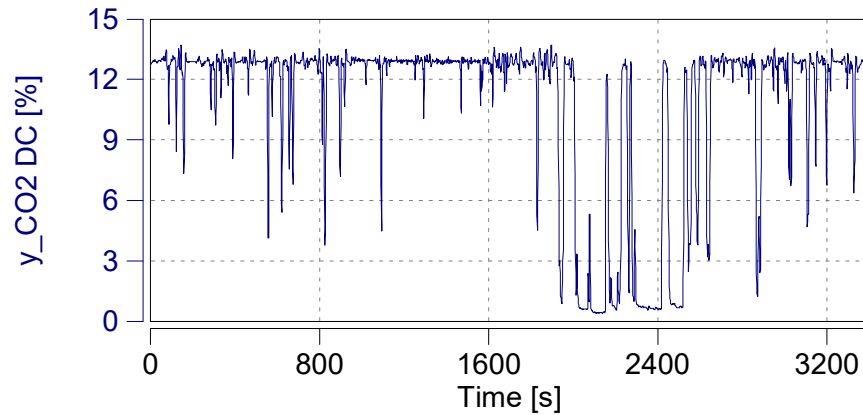
'Mountain'

Start Date: 07/24/2019

Start Time: 17:57:59.0



Concerto M.O.V.E, 2018



Concerto Version: 480 Build 316, Serial Number: 1120

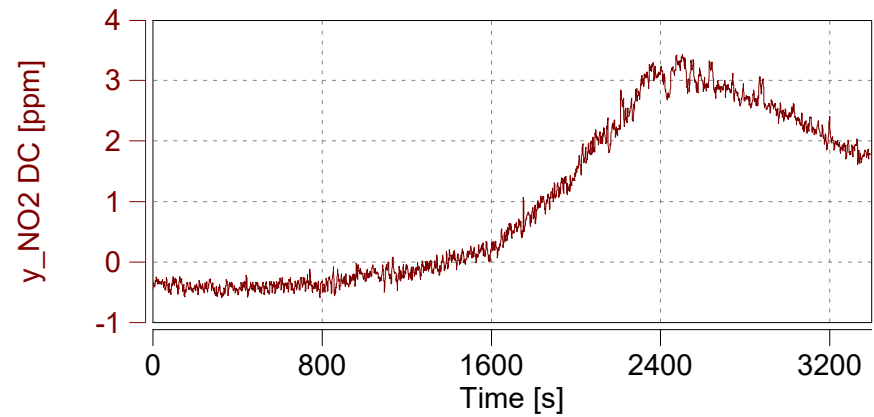
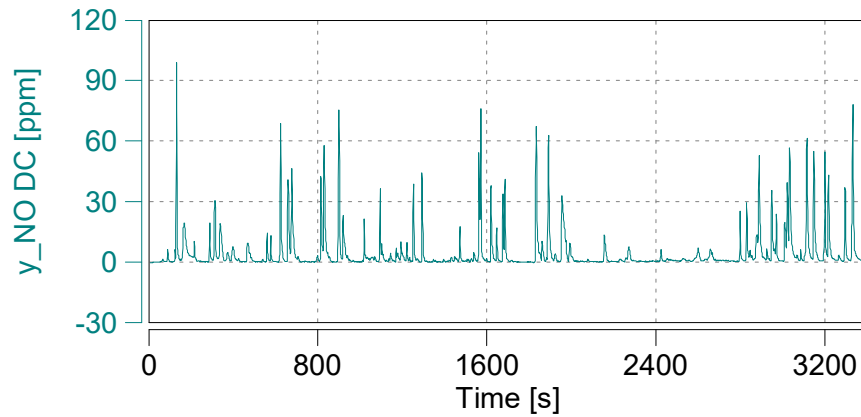
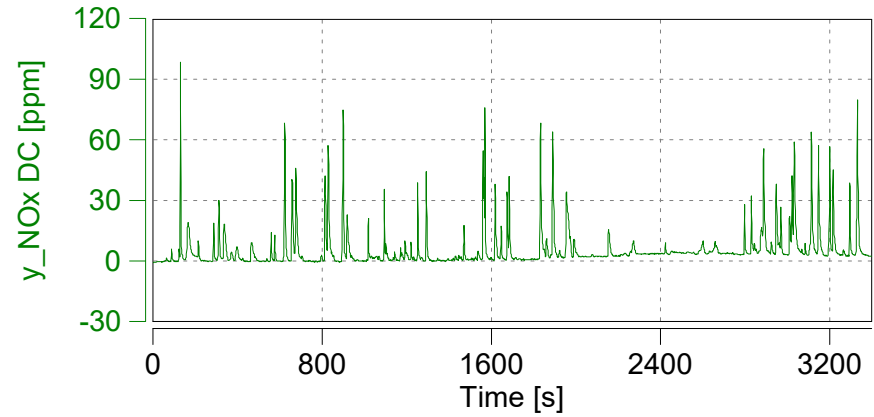
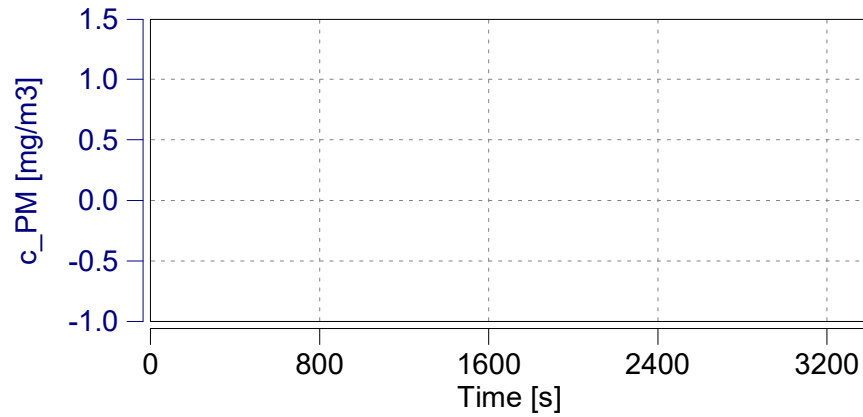
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Vehicle: Atlas / 3.6L

Engine: /

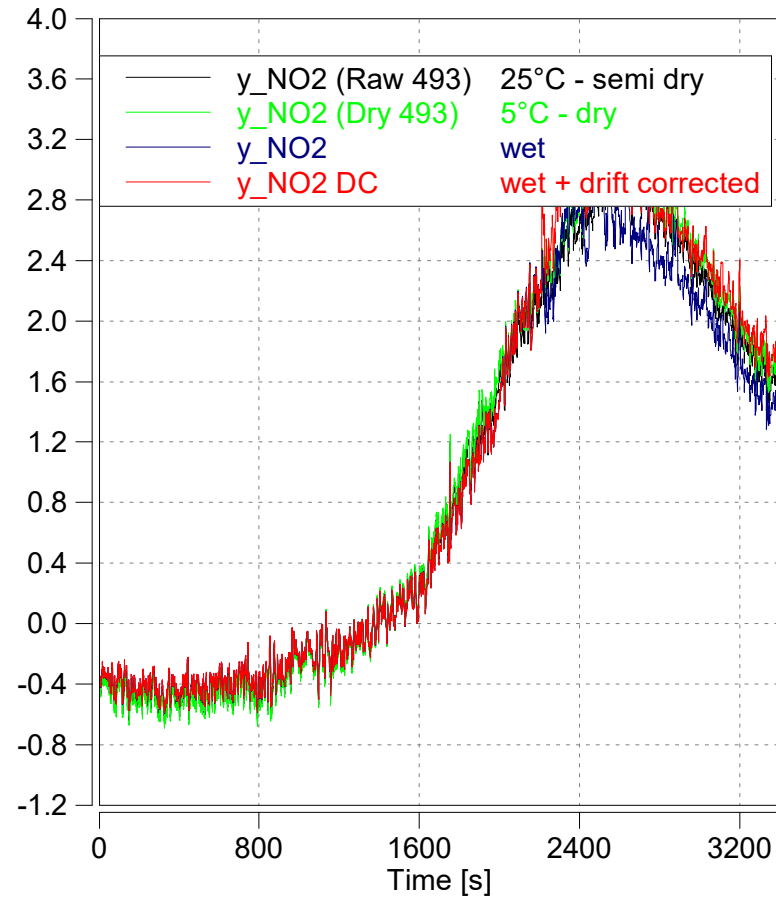
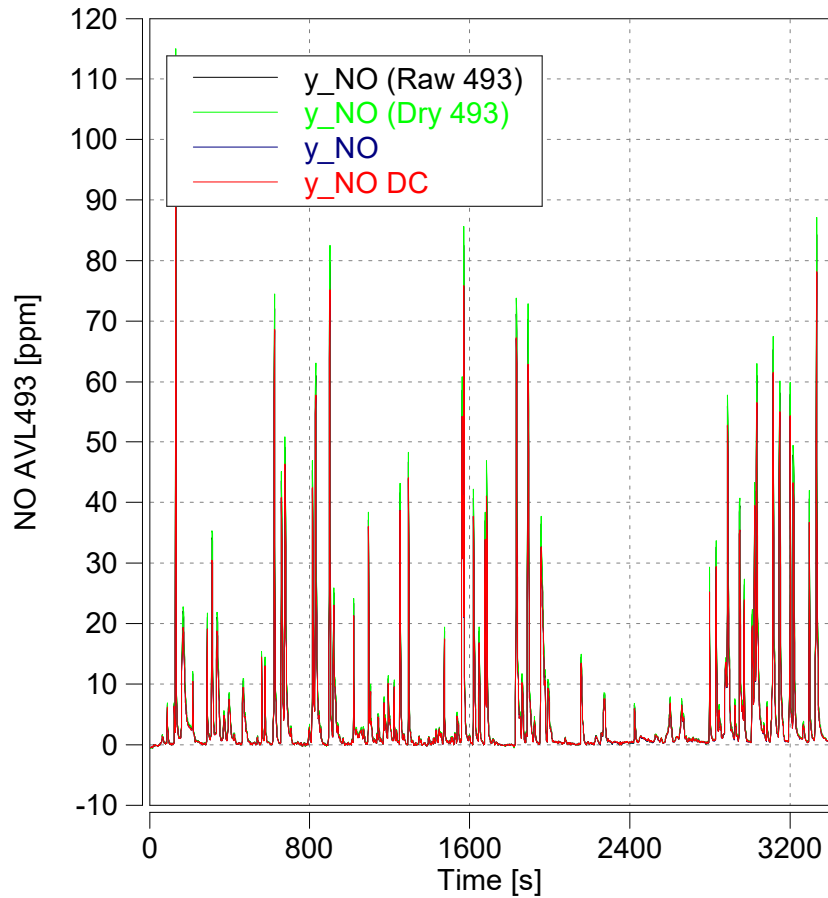
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

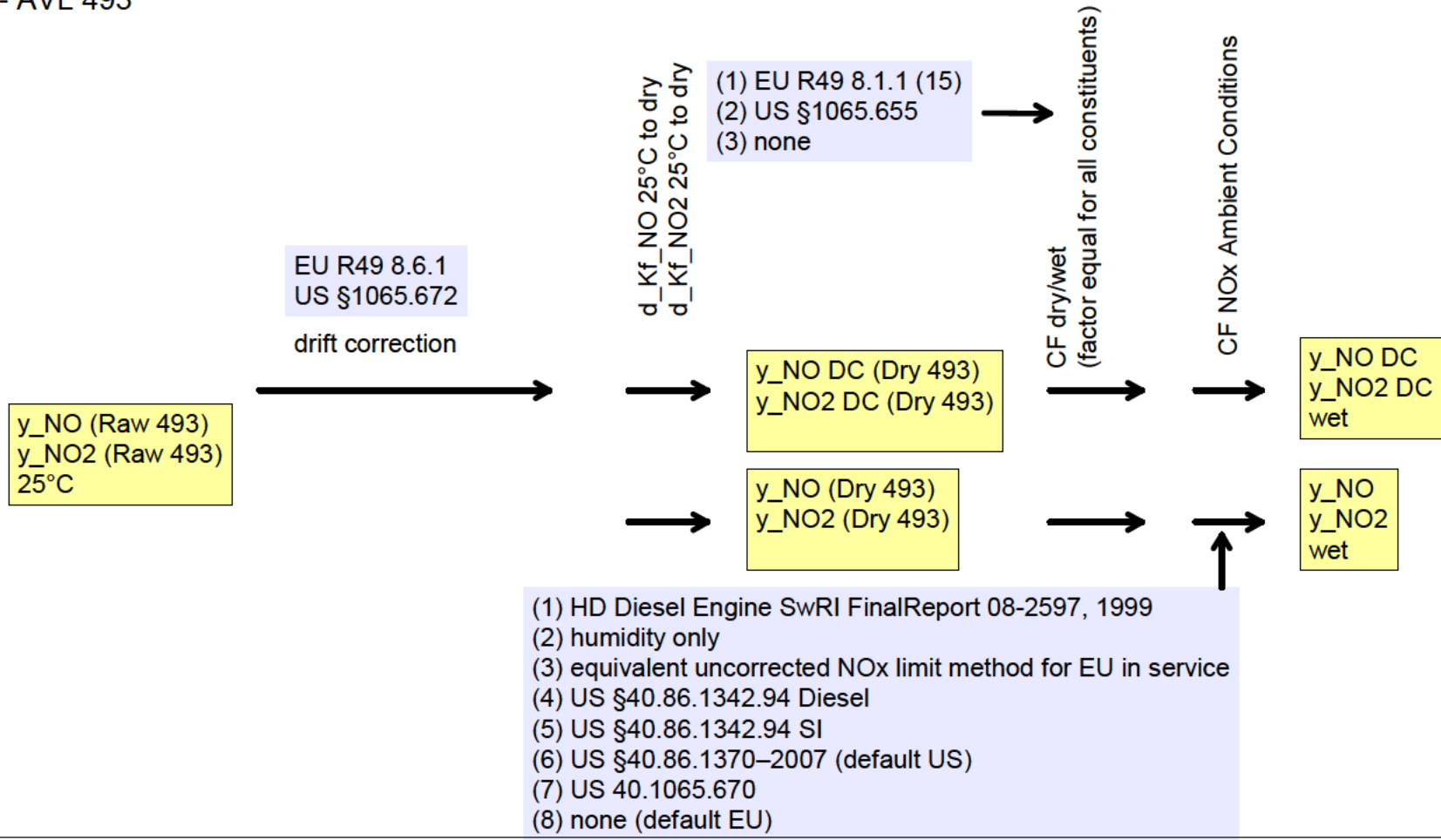


Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Mountain

Page: Corrected Emissions (5)

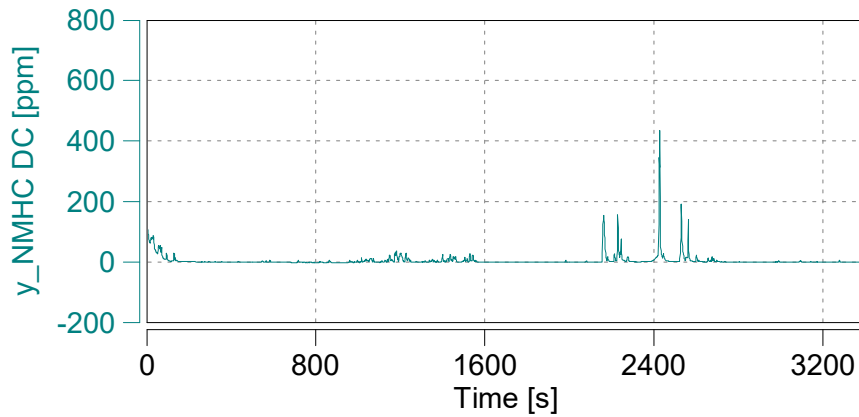
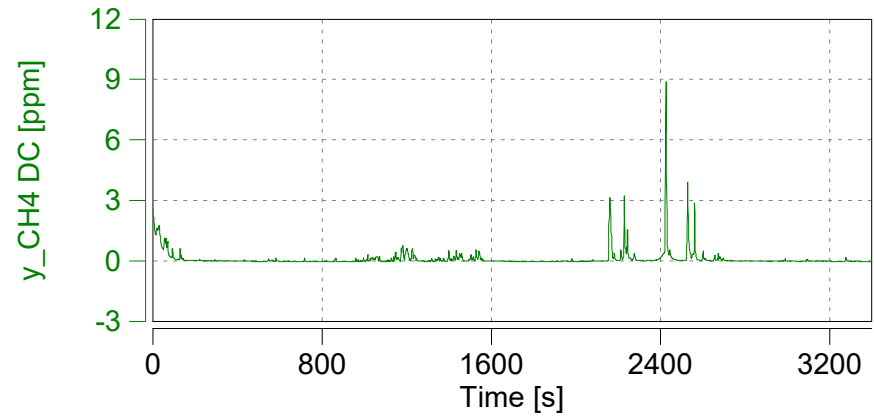
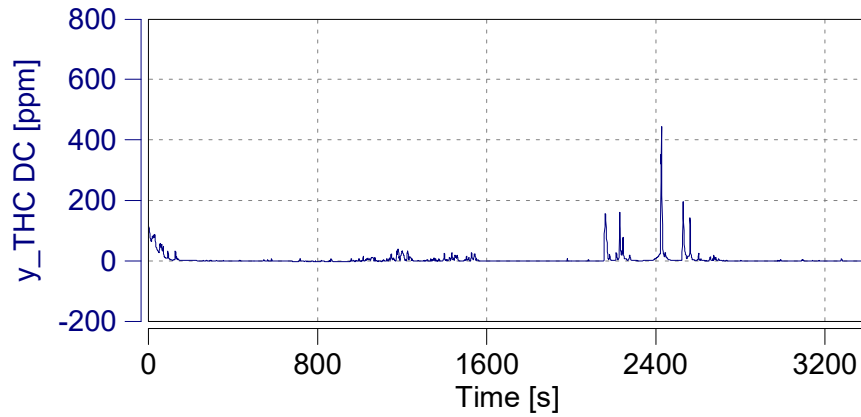
'Mountain'

Start Date: 07/24/2019

Start Time: 17:57:59.0

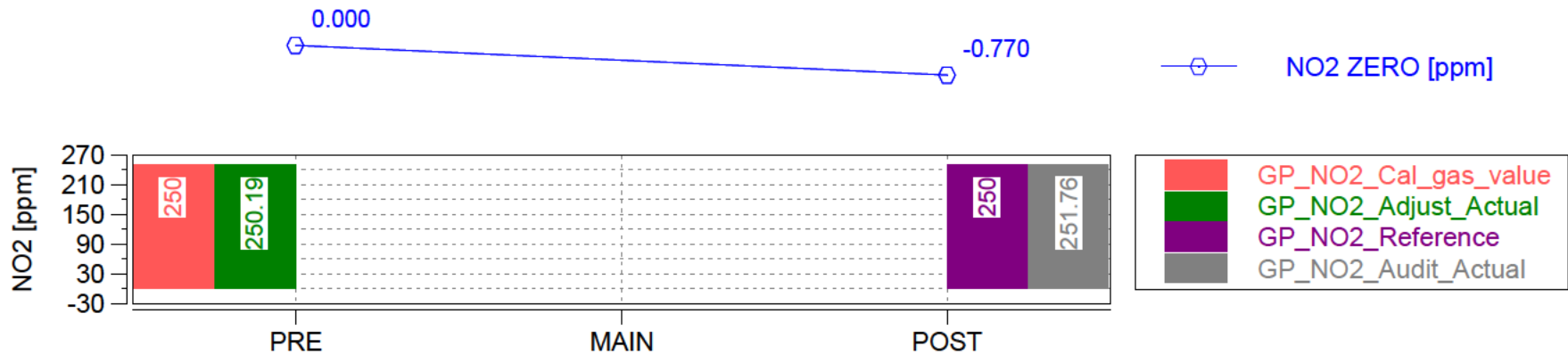
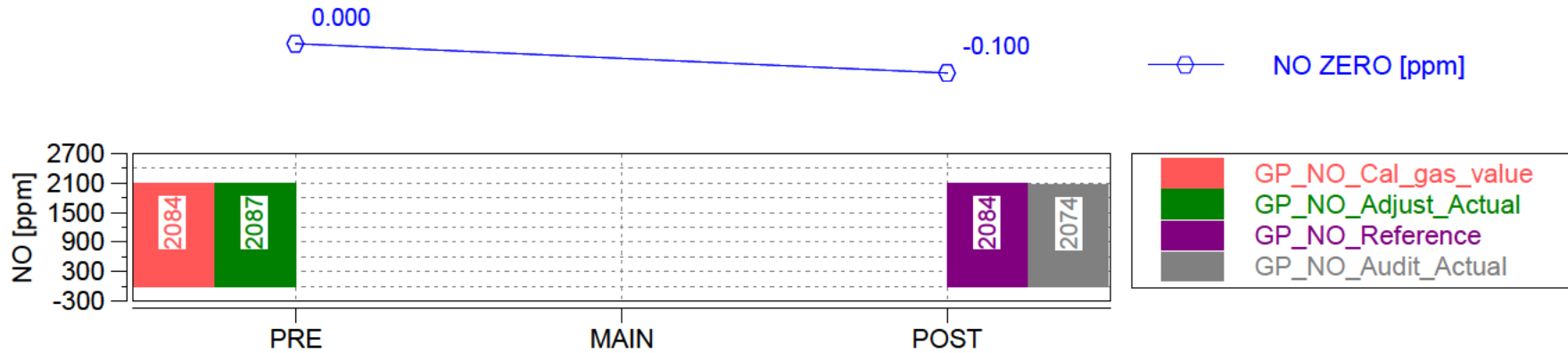


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

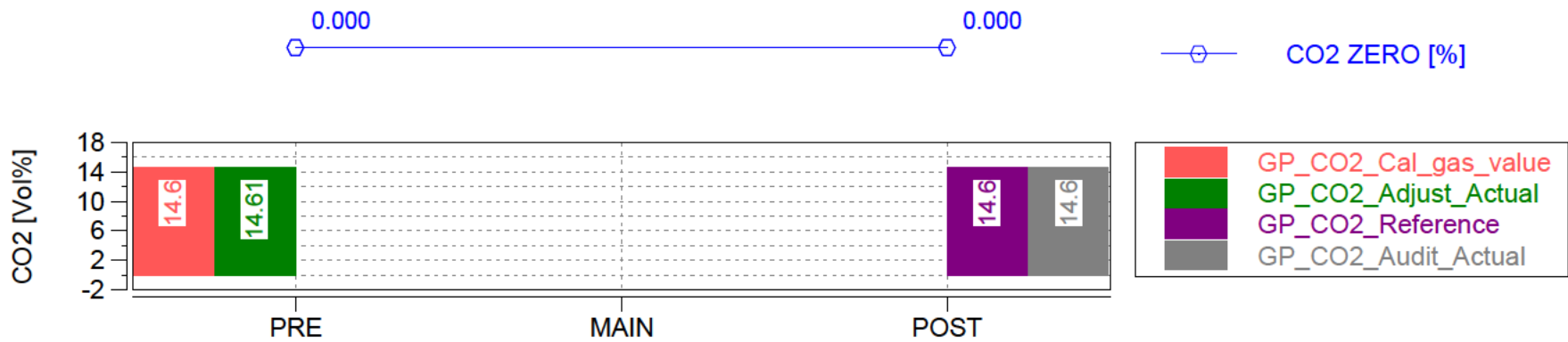
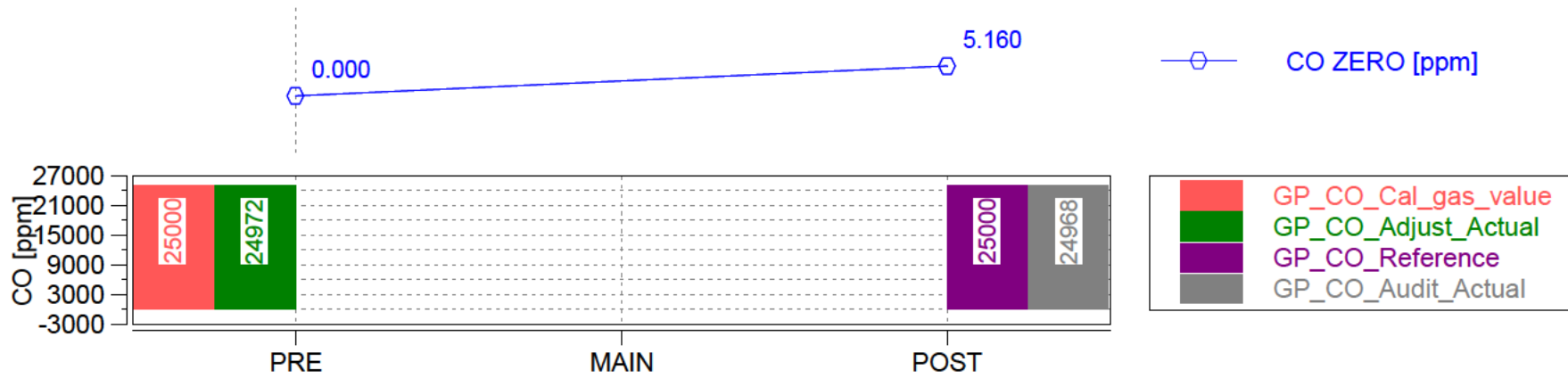
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Vehicle: Atlas / 3.6L

Engine: /

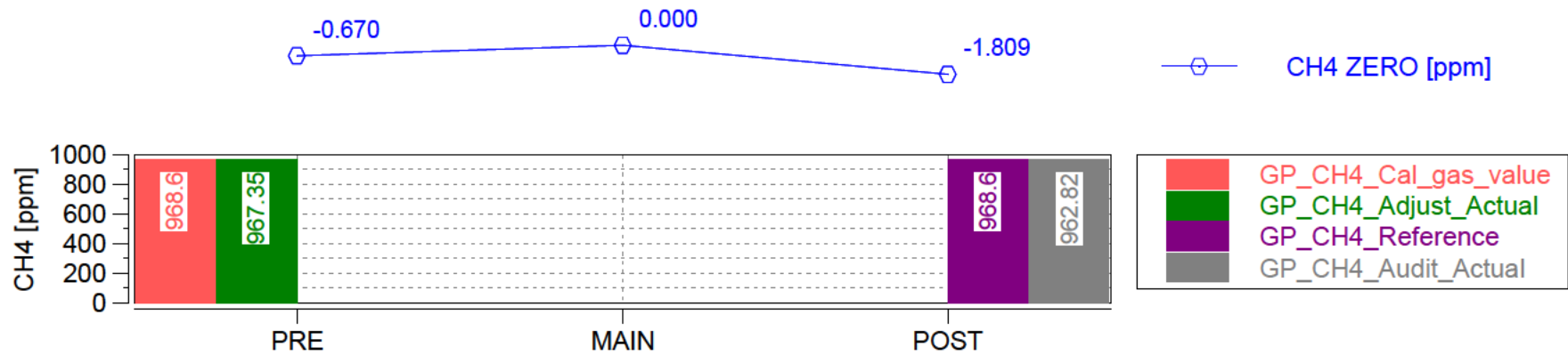
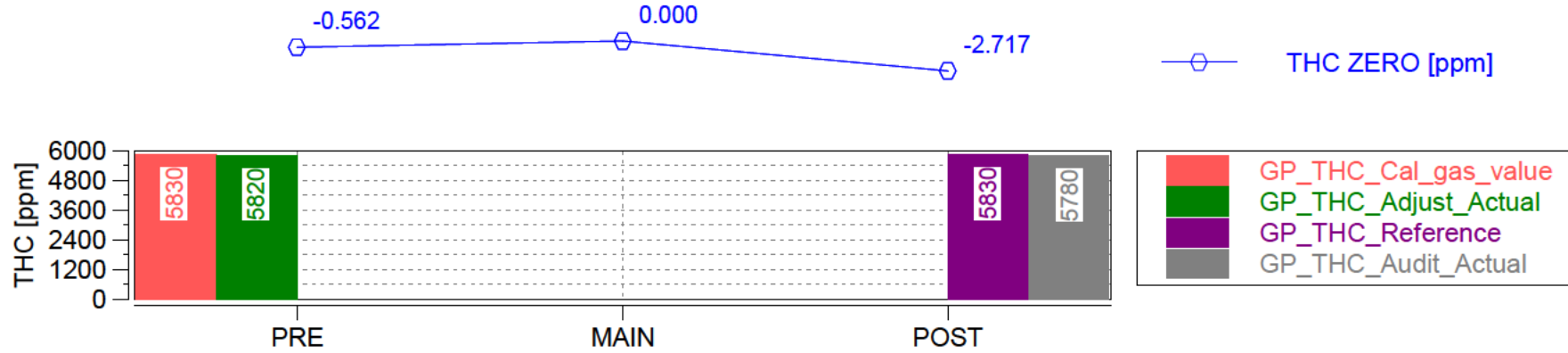
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City
Page: Trip Summary

'City'
Start Date: 07/29/2019
Start Time: 19:09:12.0



Trip Duration	4511.00	s	ave THC	1.13167	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	4511.00	s	ave NMHC	1.10904	ppm	BS CO	n/a	g/hphr
Trip Distance	16.25	mi	ave CH4	0.02263	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	16.25	mi	ave CO	20.48065	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.38147	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	6.71438	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	1.99	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	1.97	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	0.70	gall	tot THC	0.02079	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	0.70	gall	tot NMHC	0.01923	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00046	g	DS CO2	369.74879	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	0.71454	g	DS CO	0.04396	g/mi
Trip Fuel Economy EU (ac)	23.06	mpg_US	tot CO2	6010.03550	g	DS THC	0.00128	g/mi
Trip Fuel Economy US (ac)	23.34	mpg_US	tot NO (d)	0.32176	g	DS NMHC	0.00118	g/mi
Trip Av. Eng. Speed	1173.11	rpm	tot NO2	-0.03416	g	DS CH4	0.00003	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.28760	g	DS NO (d)	0.01980	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	-0.00210	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01769	g/mi
Trip Exhaust Mass	31.26	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	77.74	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	57.47	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	12.97276	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	34.20528	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0



Concerto M.O.V.E., 2018

Trip Duration	4511.00	s	ave THC DC	1.20522	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	4511.00	s	ave NMHC DC	1.18112	ppm	BS CO DC	n/a	g/hphr
Trip Distance	16.25	mi	ave CH4 DC	0.02410	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	16.25	mi	ave CO DC	20.14516	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.35186	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	7.21637	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	1.99	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	1.97	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	0.70	gall	tot THC DC	0.02195	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	0.70	gall	tot NMHC DC	0.02031	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00049	g	DS CO2 DC	368.86453	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	0.70423	g	DS CO DC	0.04333	g/mi
Trip Fuel Economy EU (ac)	23.06	mpg_US	tot CO2 DC	5995.66234	g	DS THC DC	0.00135	g/mi
Trip Fuel Economy US (ac)	23.34	mpg_US	tot NO DC (d)	0.33007	g	DS NMHC DC	0.00125	g/mi
Trip Av. Eng. Speed	1173.11	rpm	tot NO2 DC	-0.01749	g	DS CH4 DC	0.00003	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.31257	g	DS NO DC (d)	0.02031	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	-0.00108	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.01923	g/mi
Trip Exhaust Mass	31.26	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	77.74	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	57.47	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	12.97276	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	34.20528	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

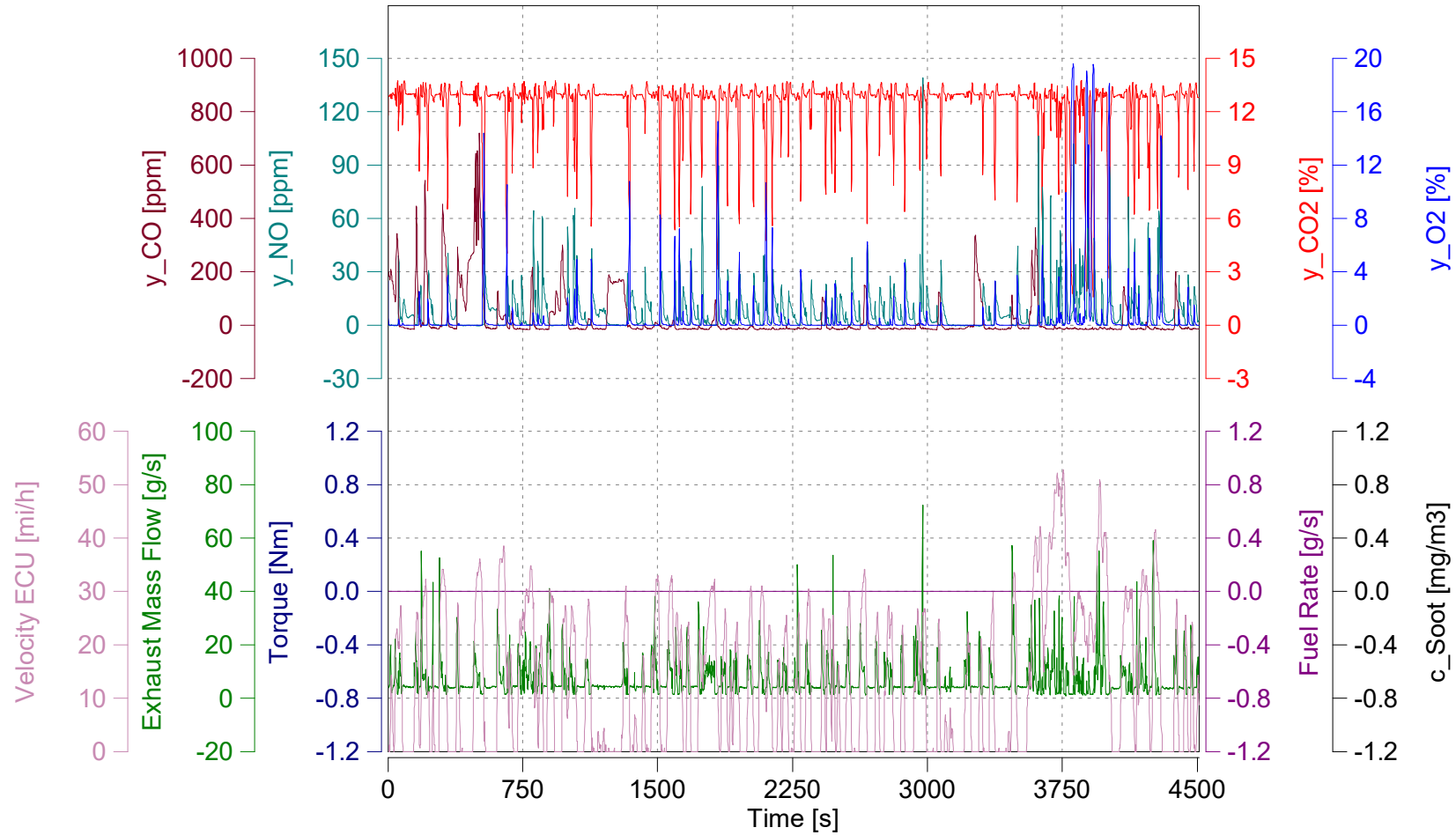
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Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

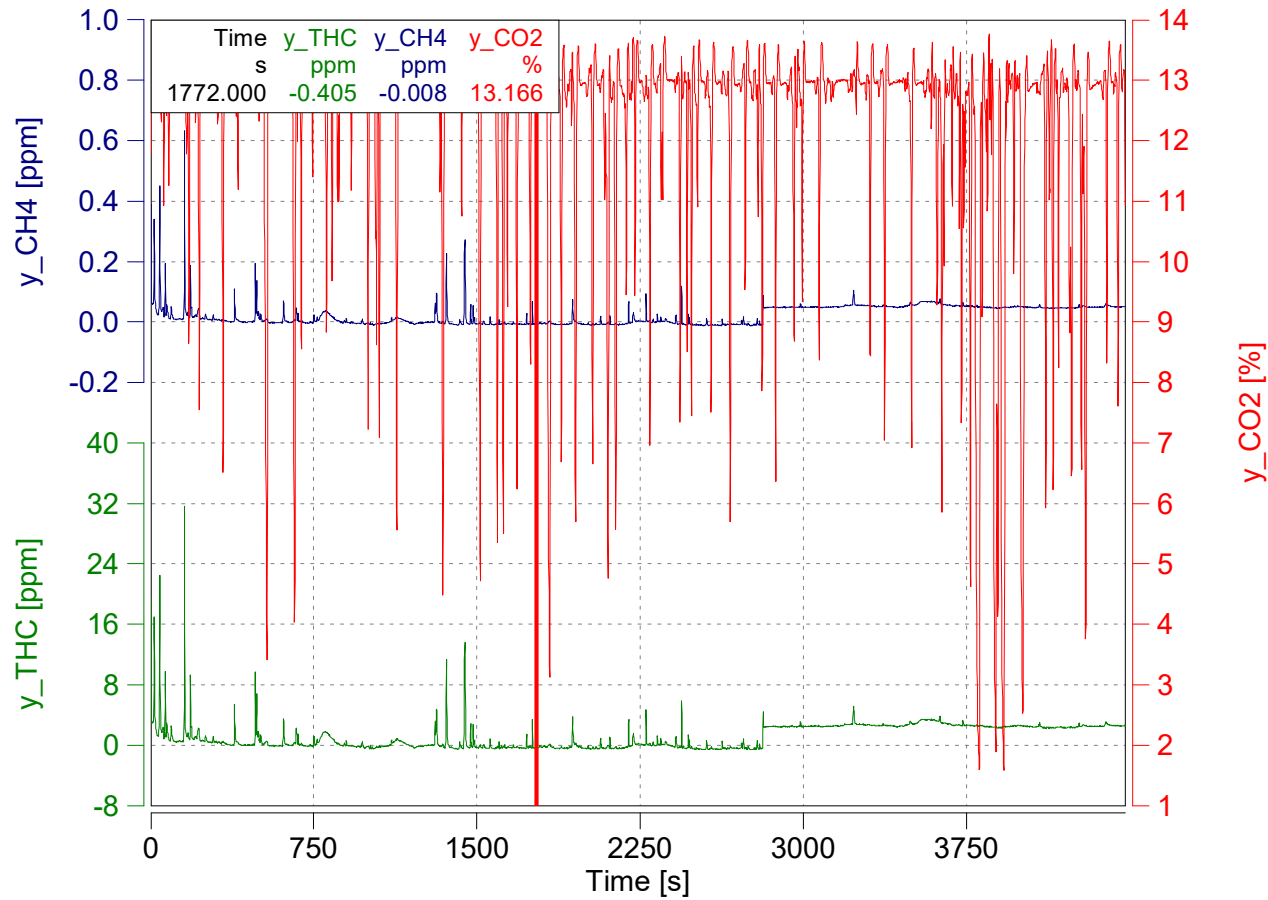
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Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120

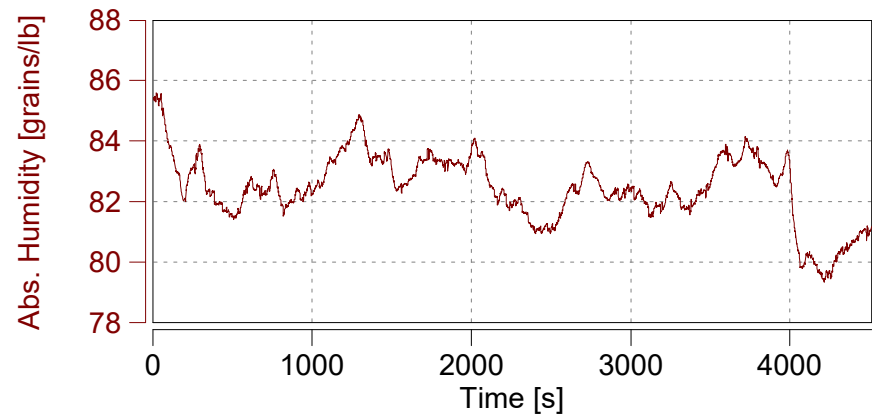
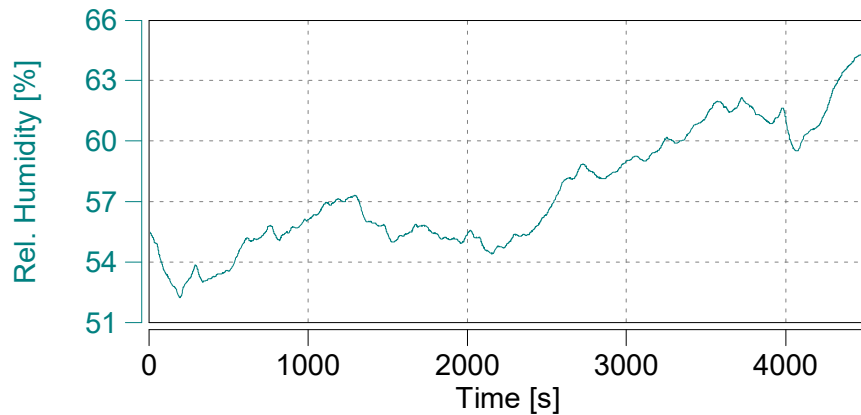
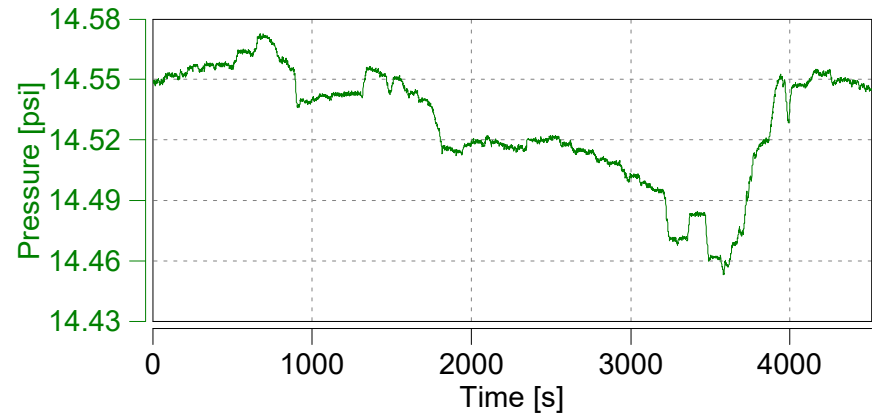
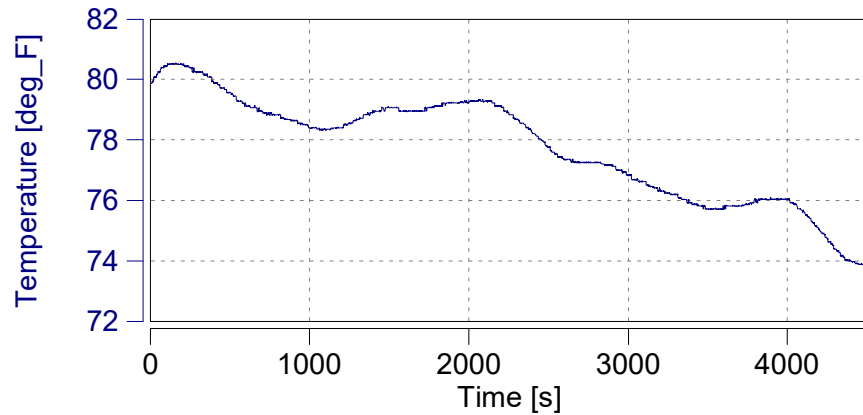
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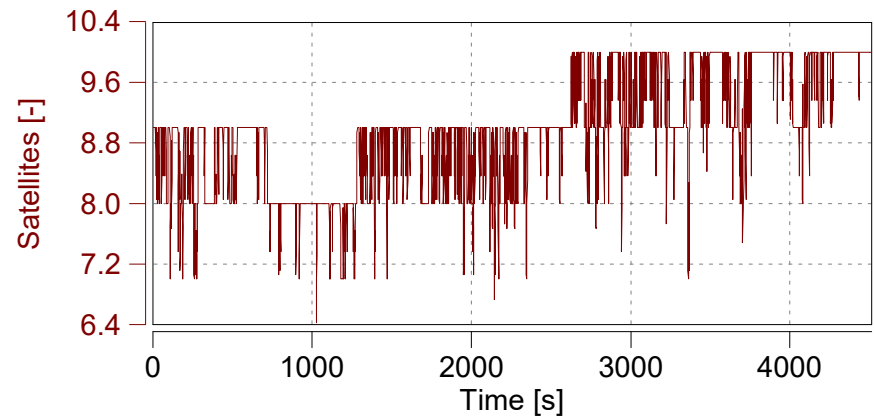
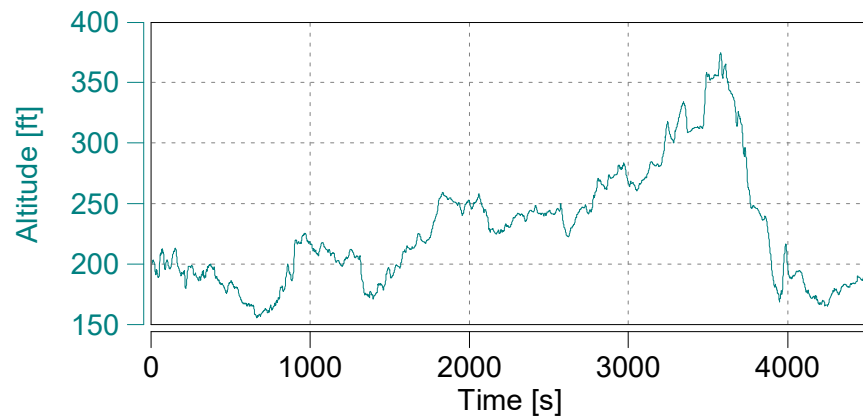
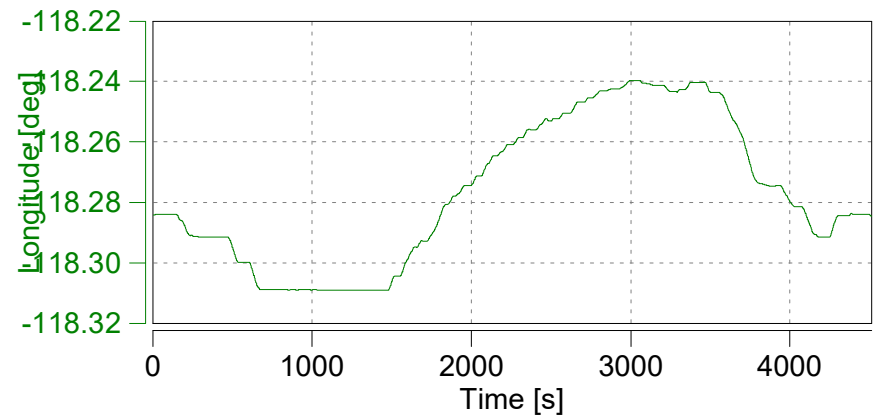
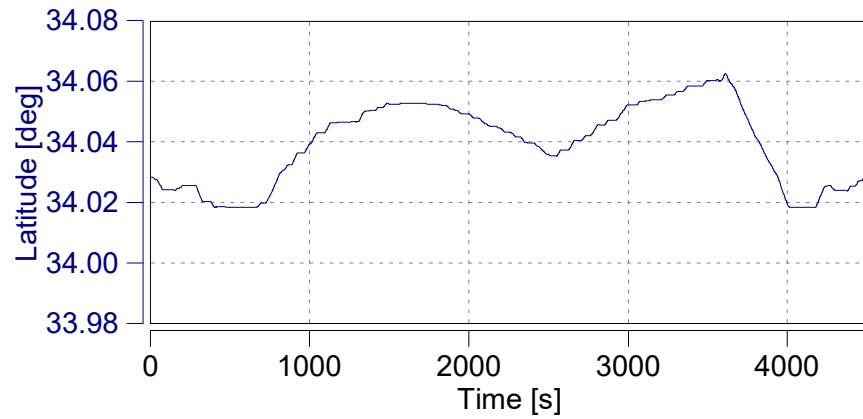
Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90





Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (1)

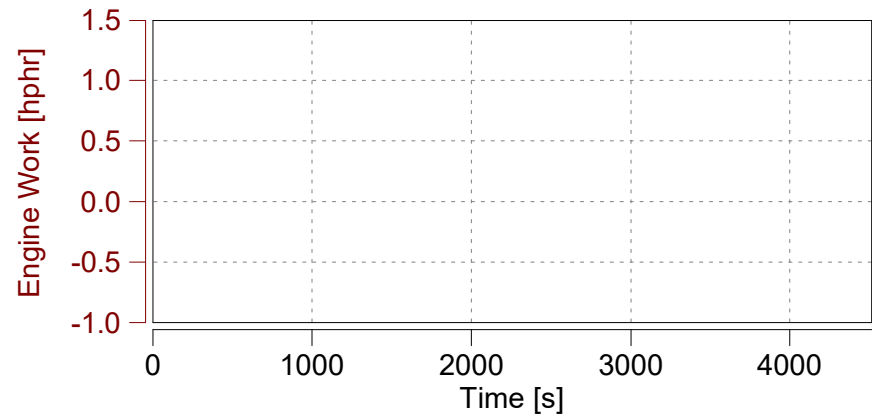
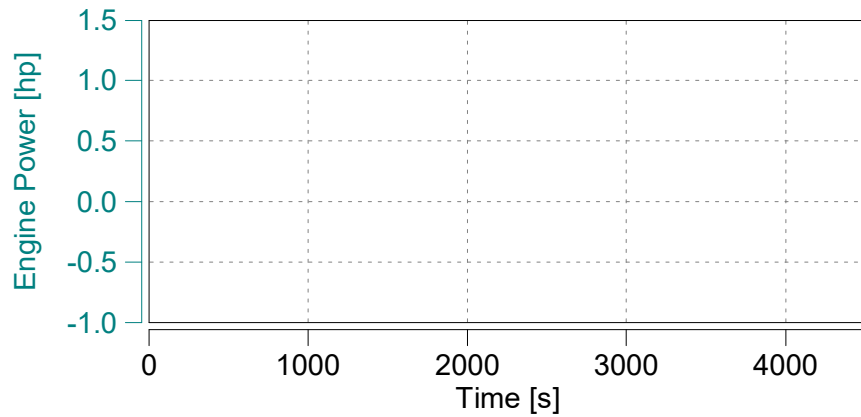
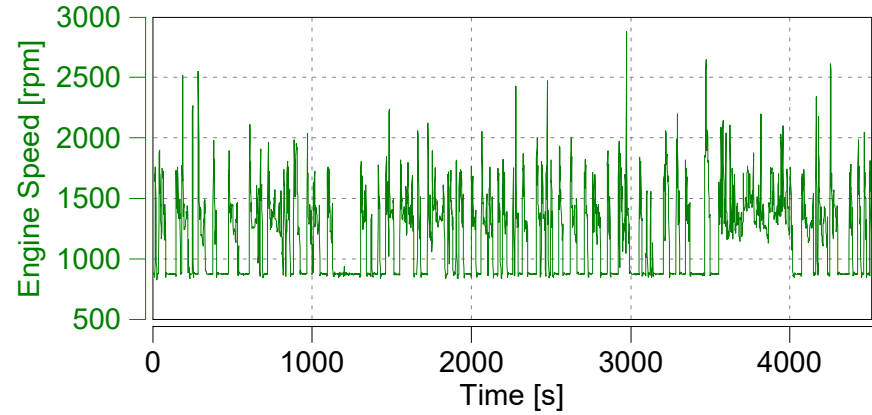
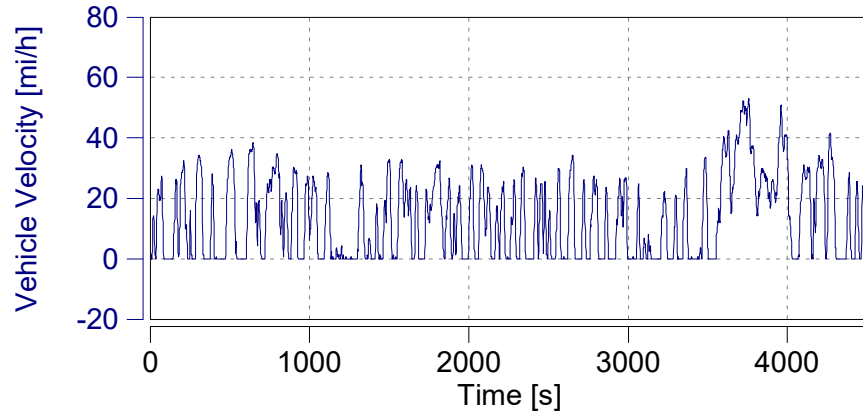
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

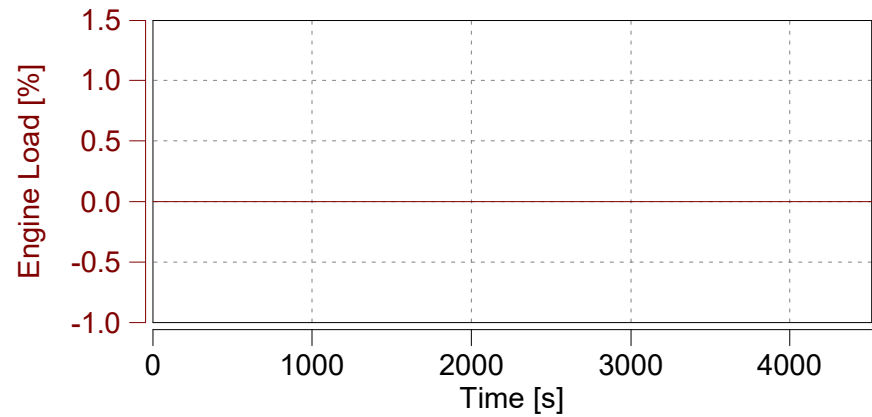
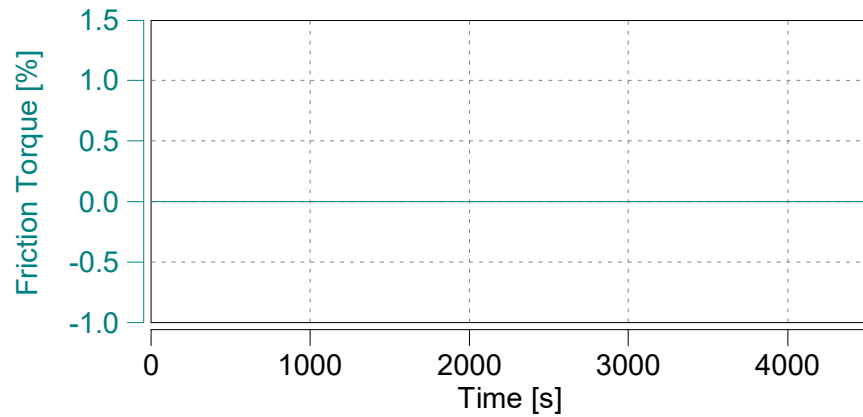
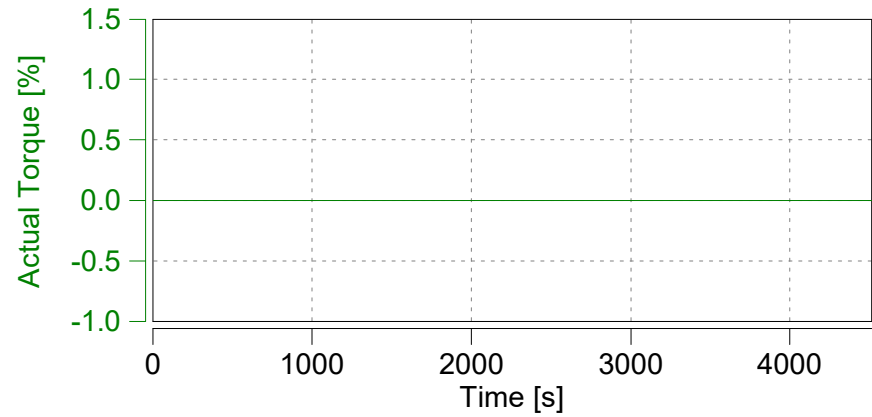
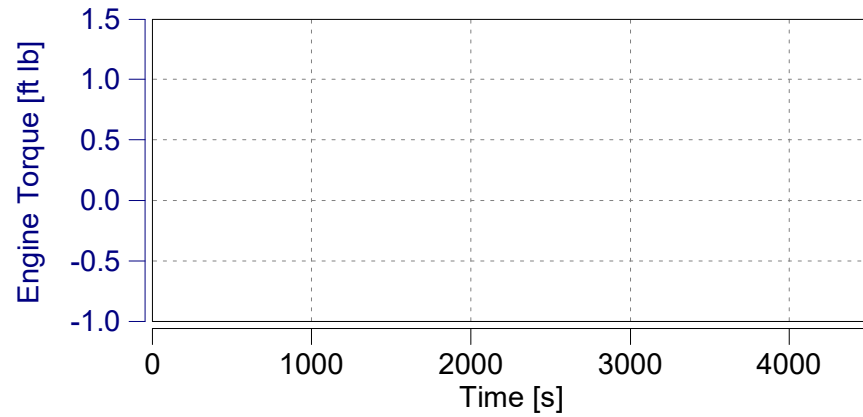
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Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Case: City

Page: Engine (3)

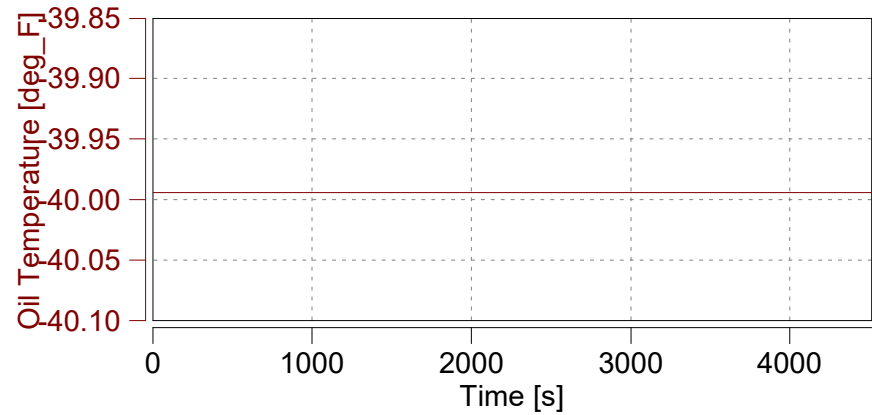
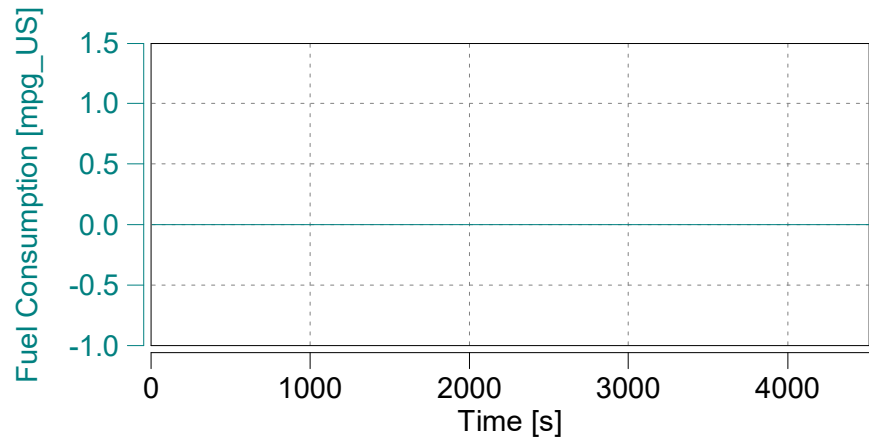
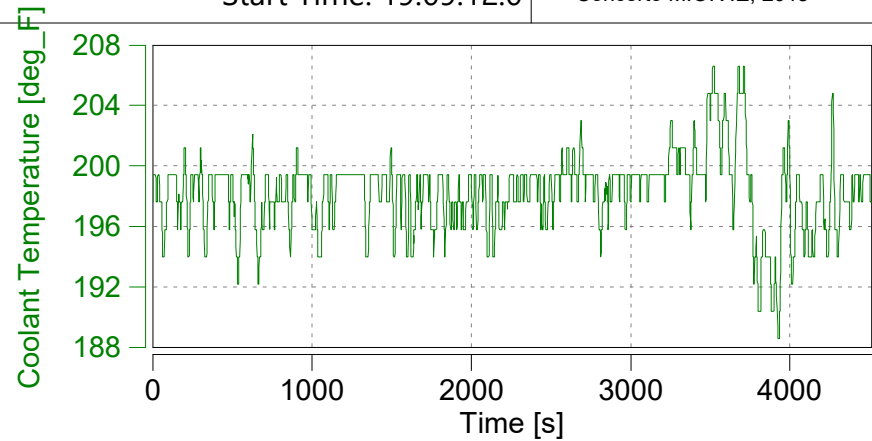
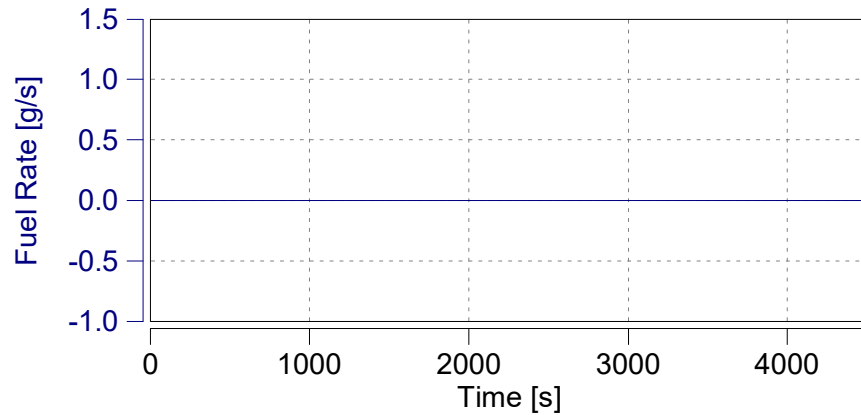
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

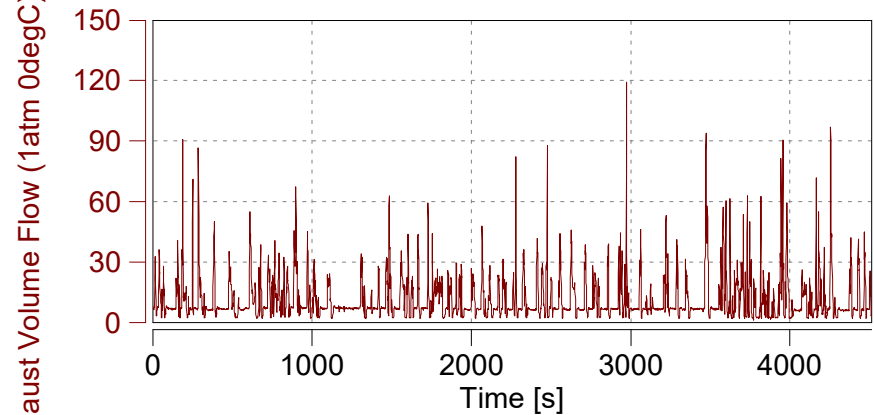
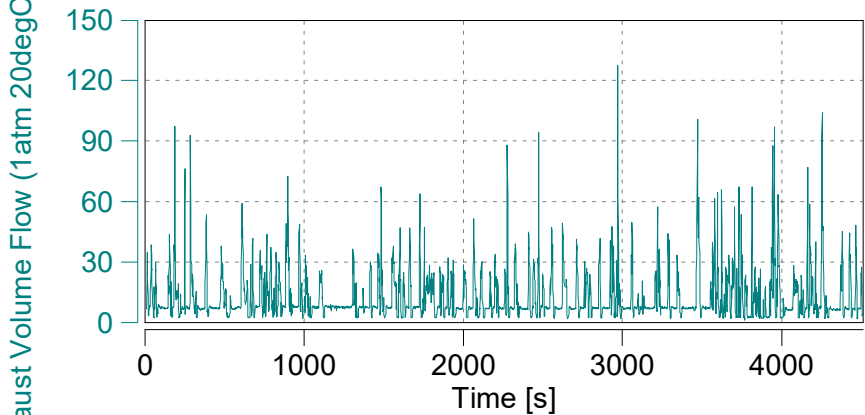
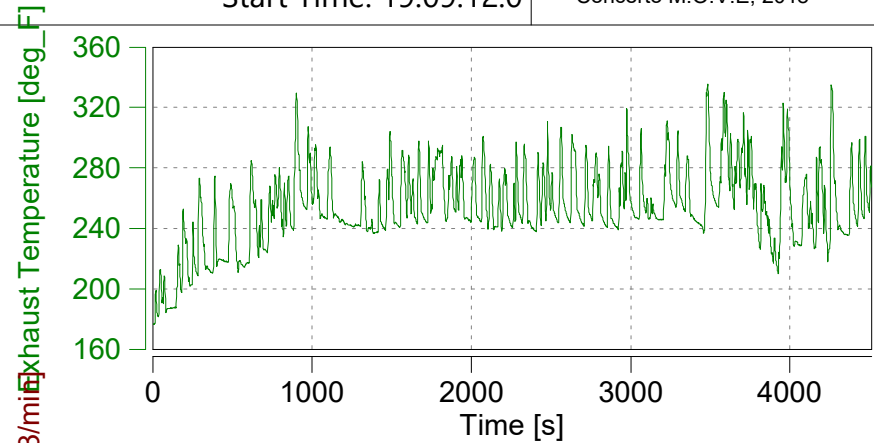
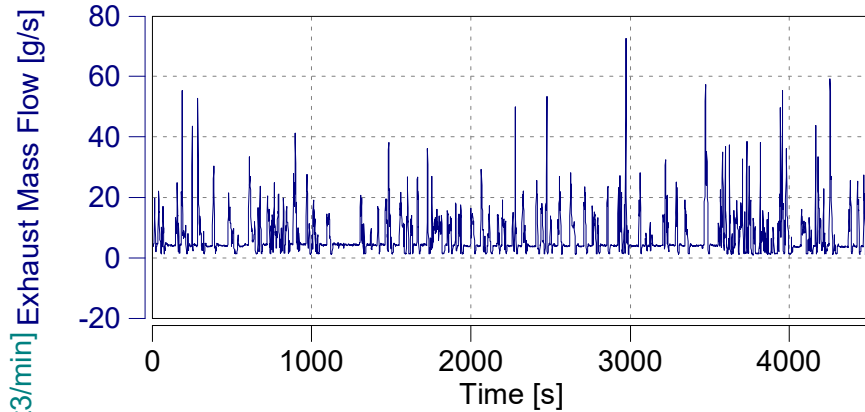
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (2)

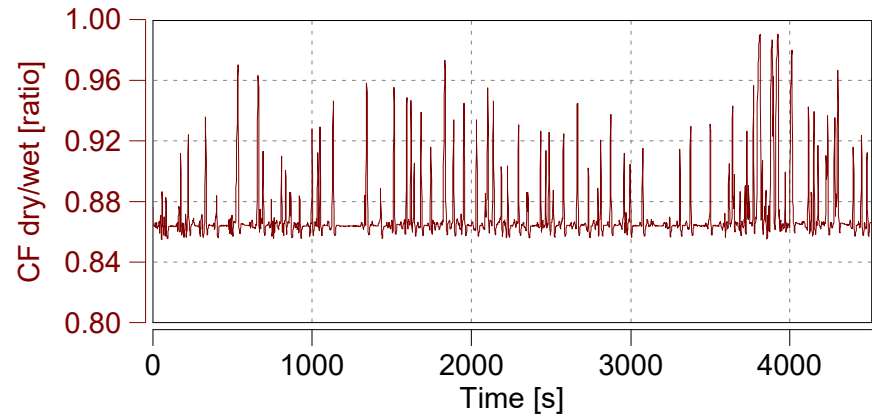
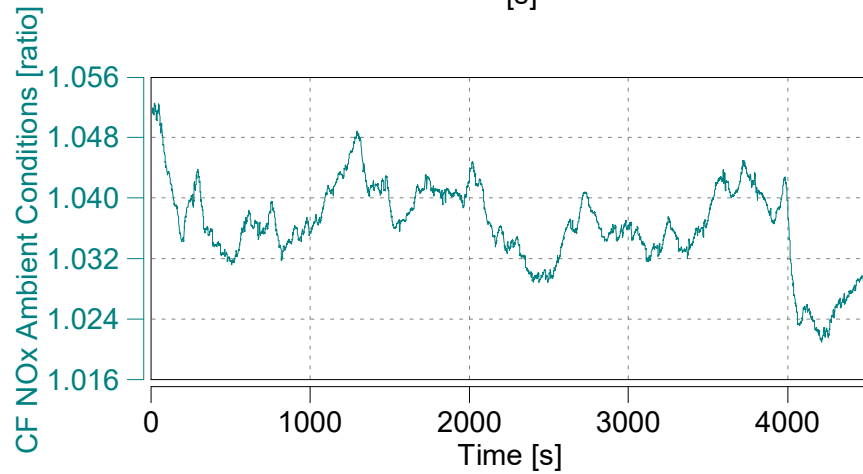
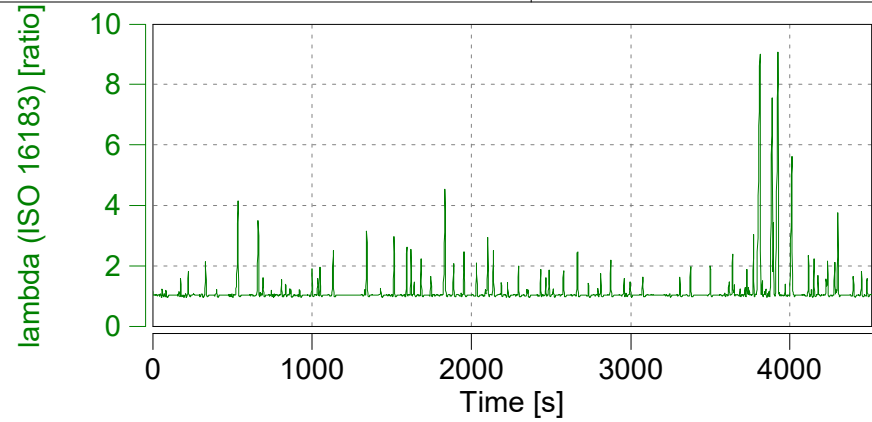
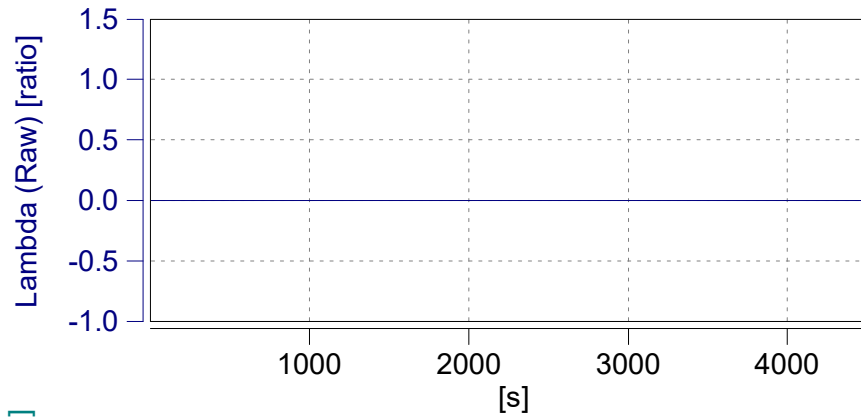
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

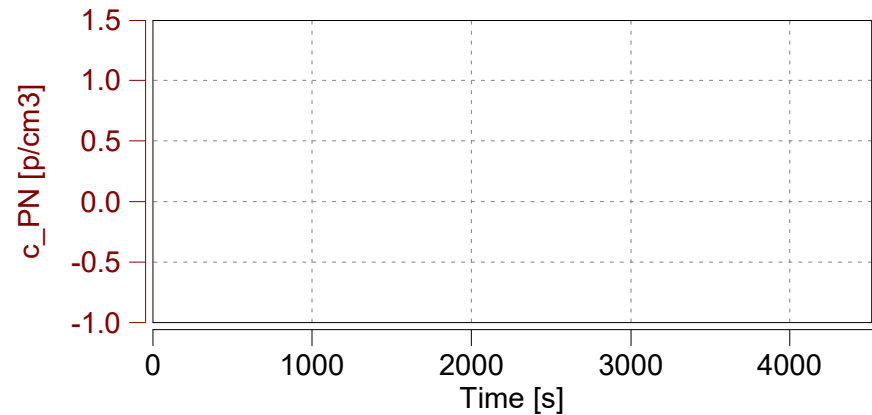
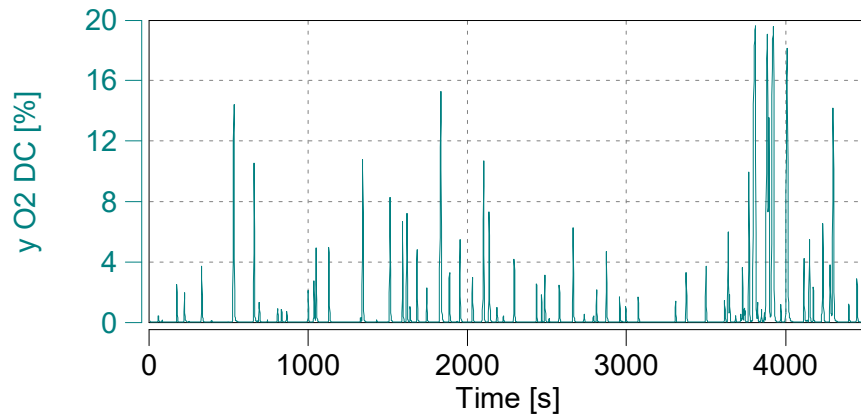
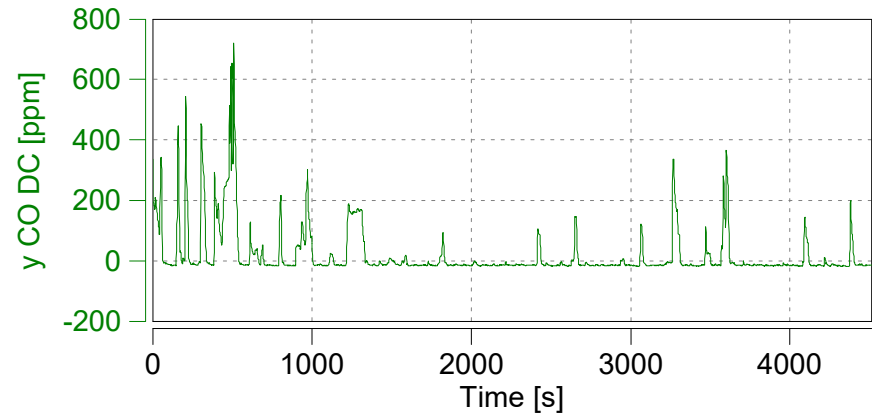
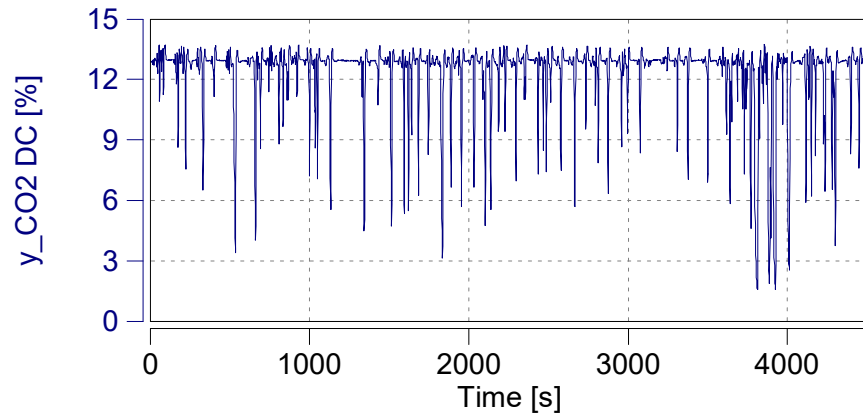
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

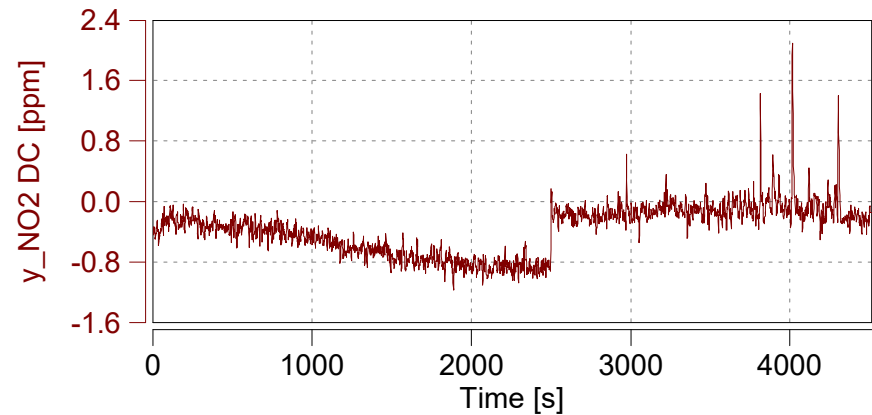
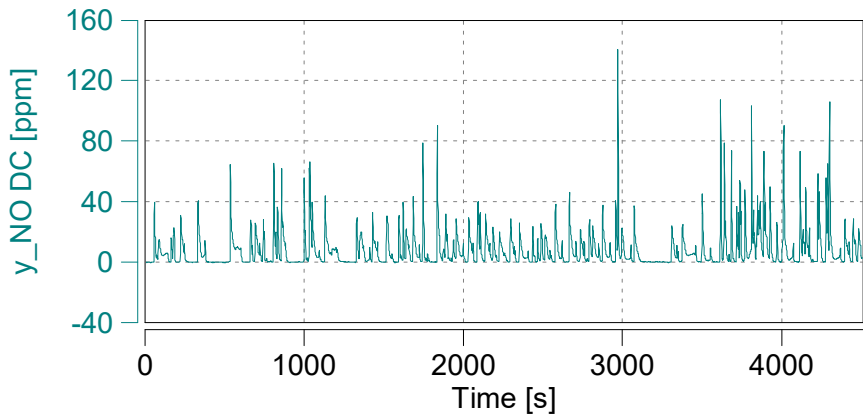
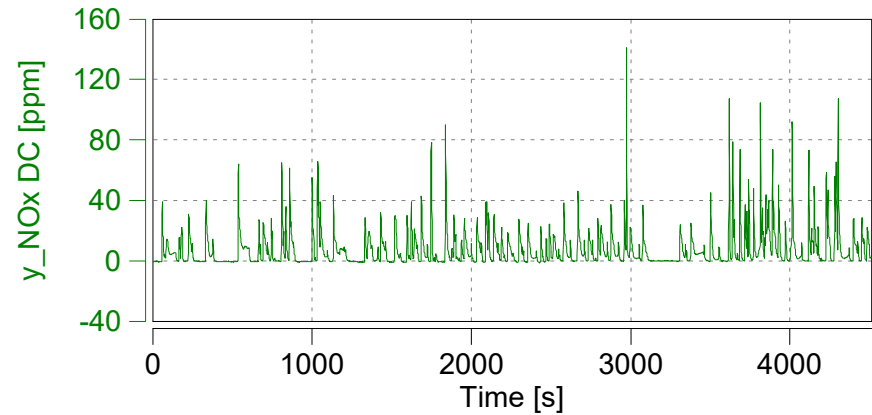
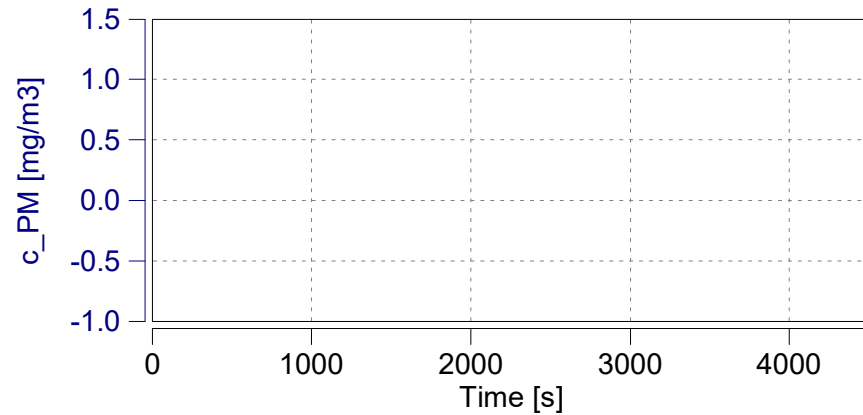
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0

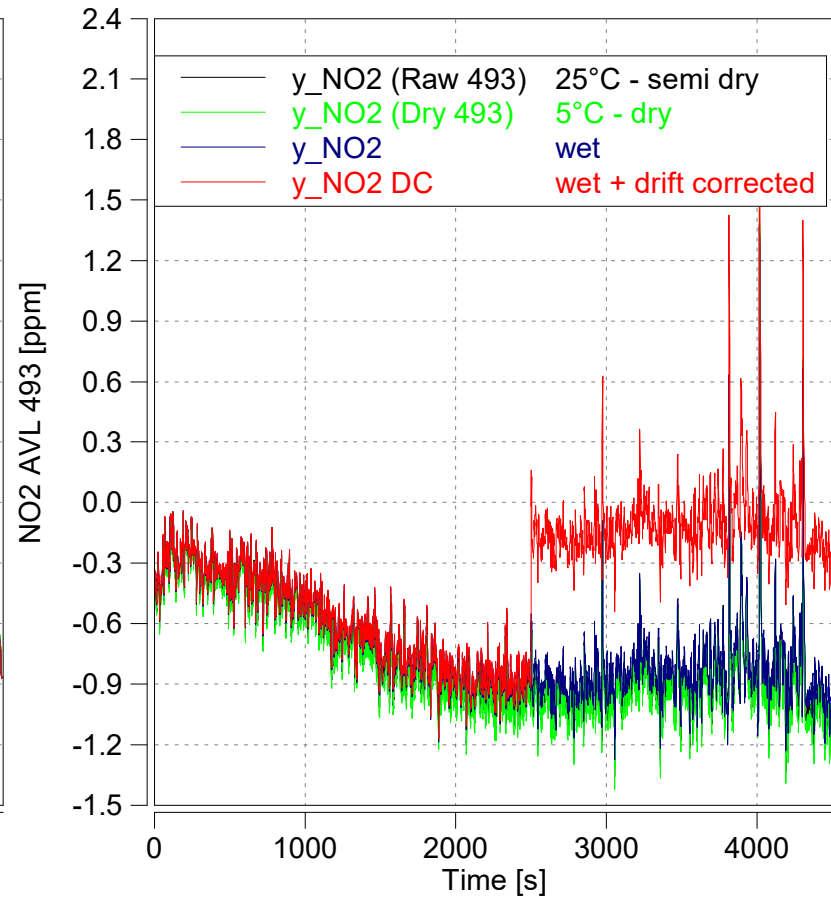
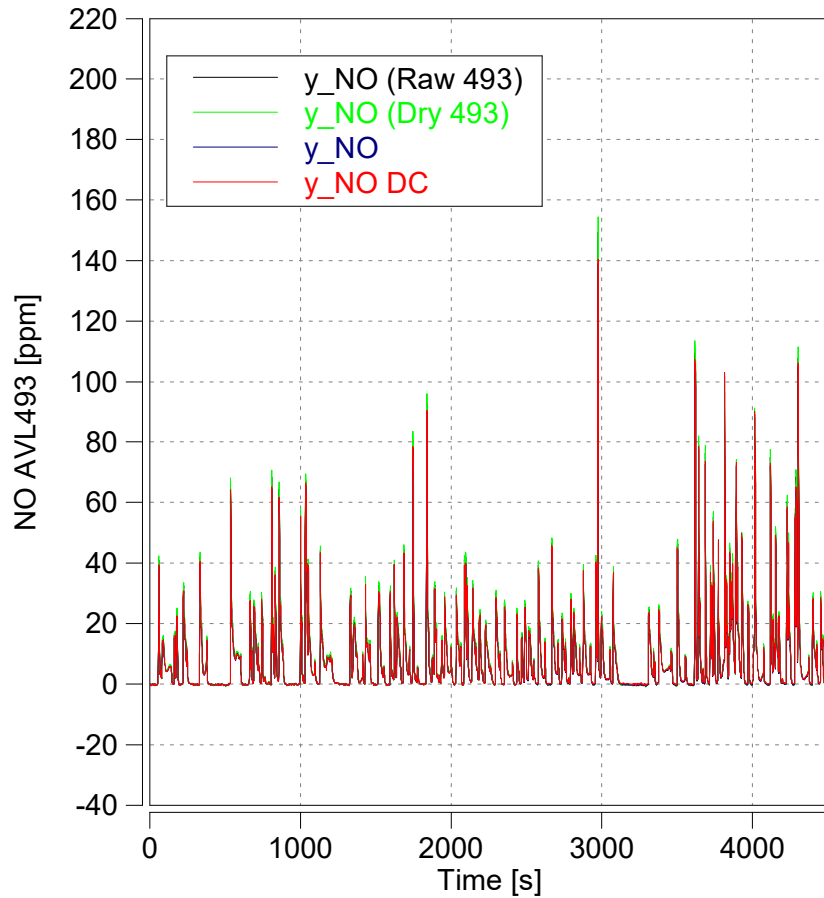


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

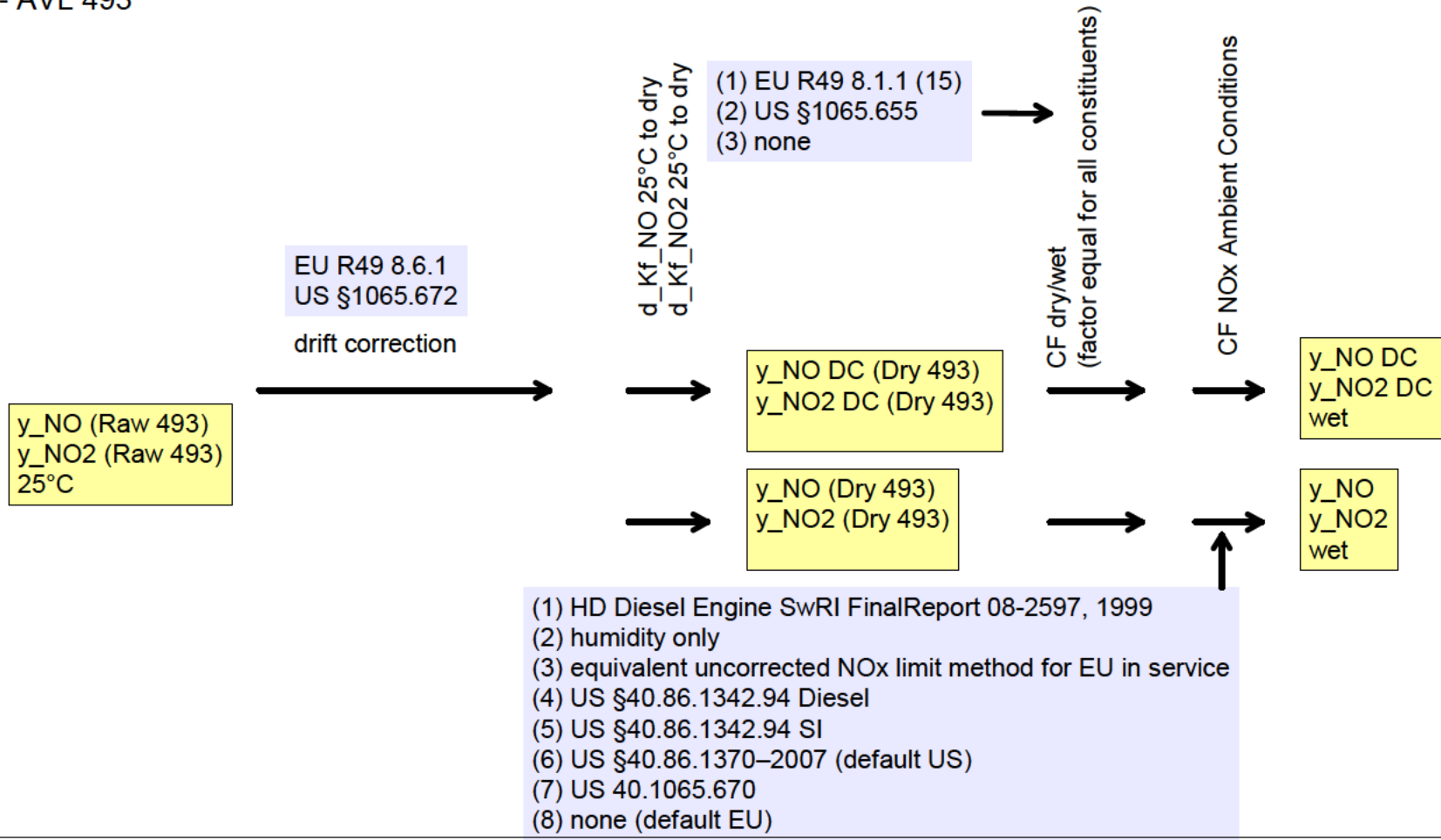


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

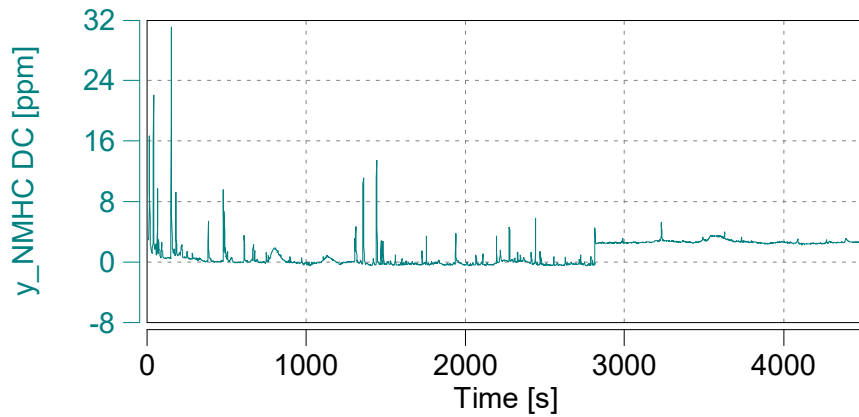
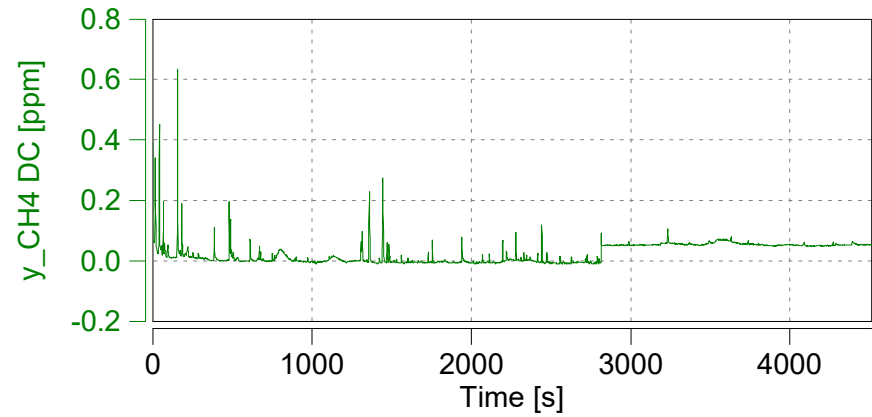
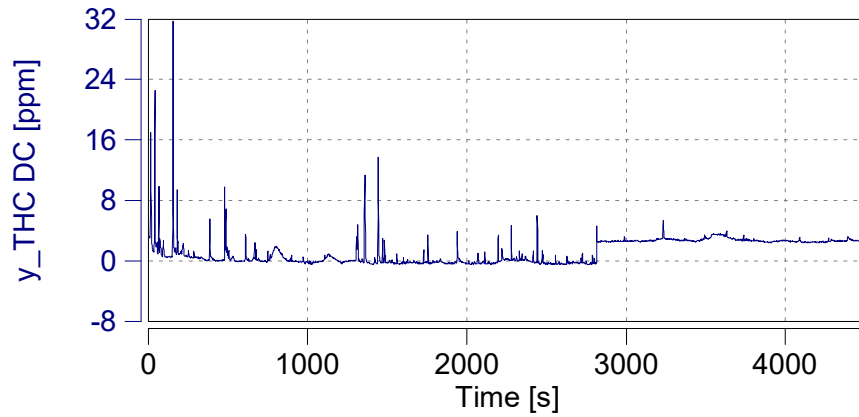
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: NO/NO2/NOx Zero - Span

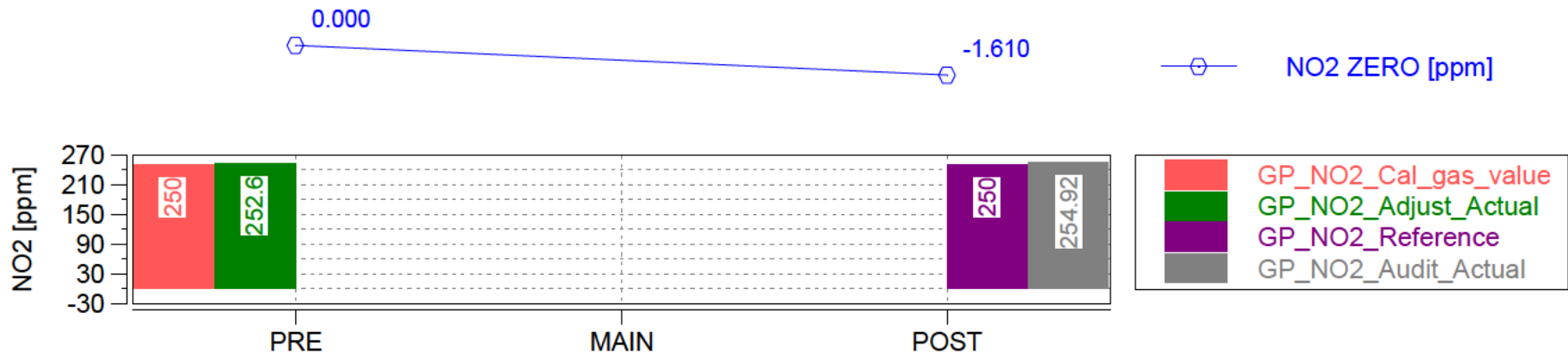
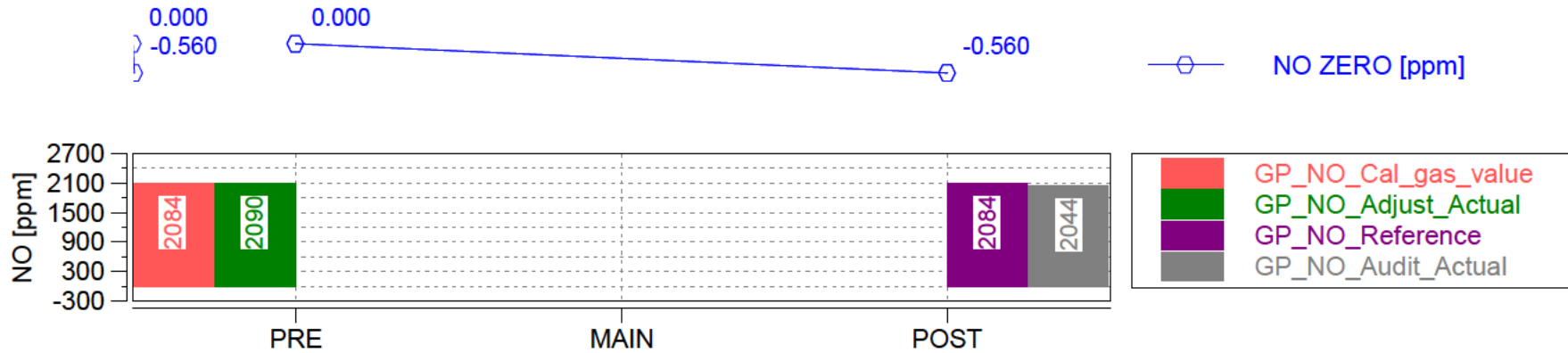
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

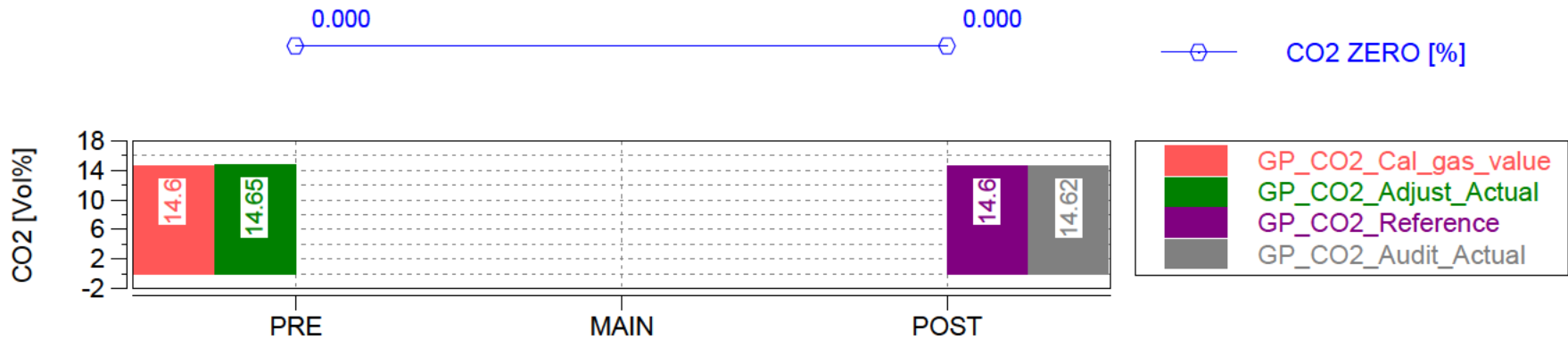
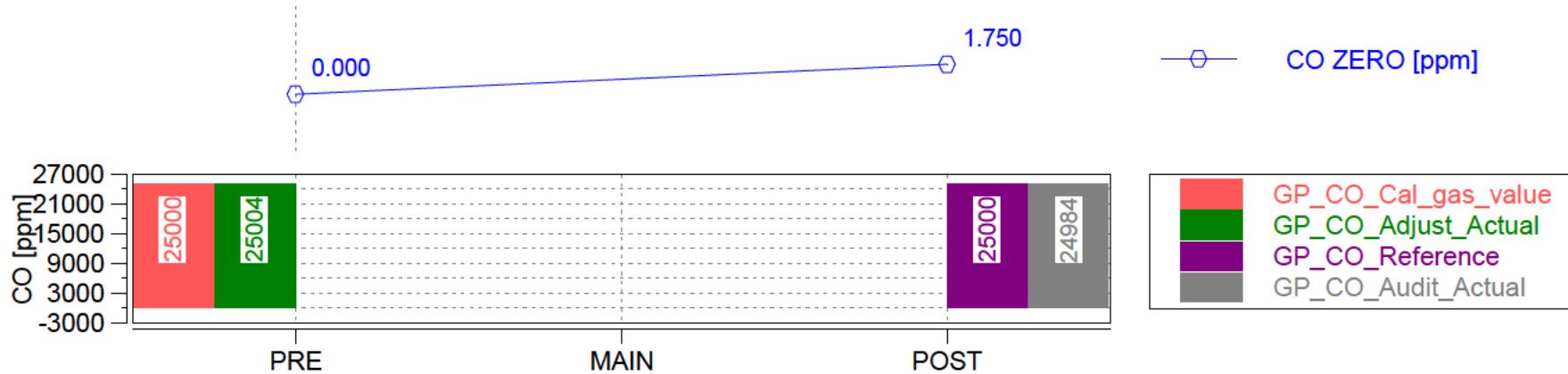
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnviron:ms\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

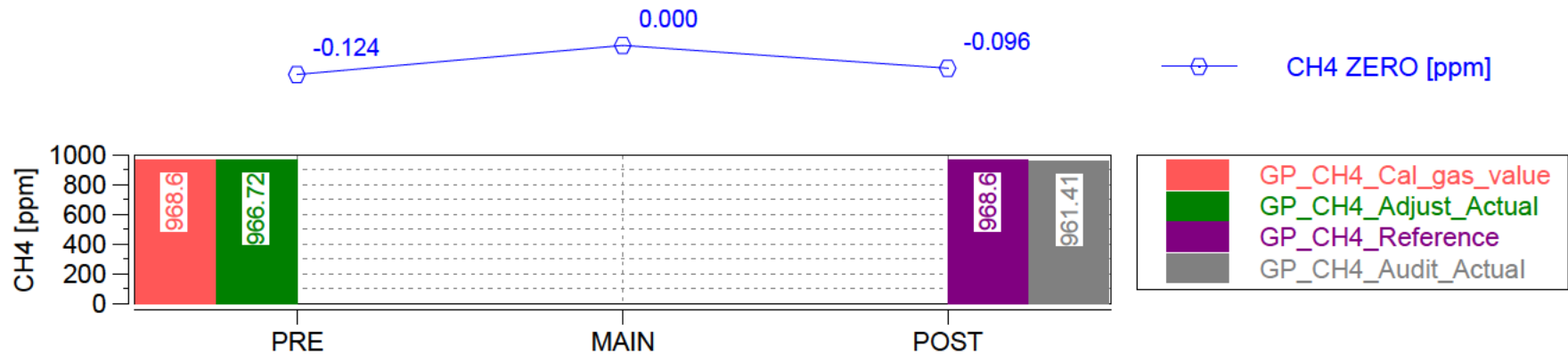
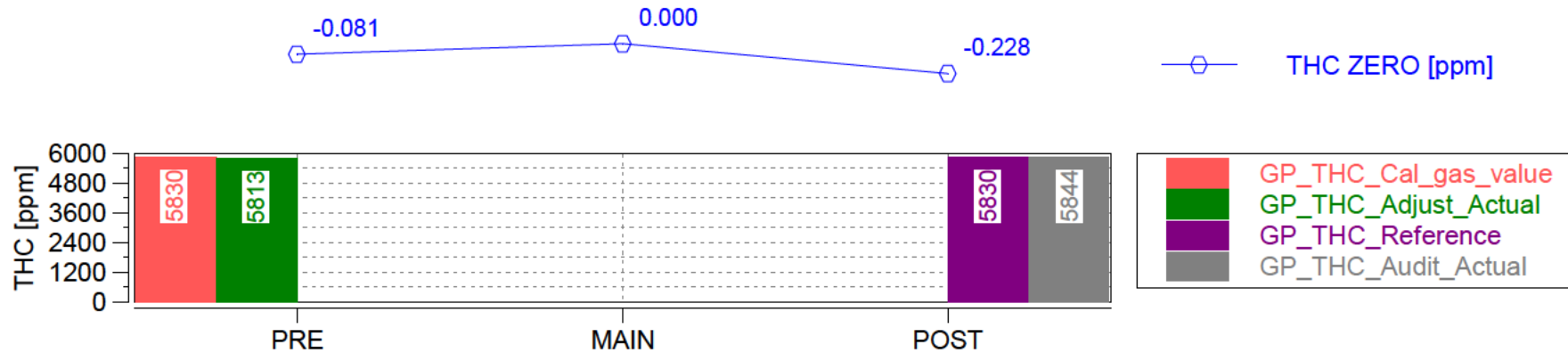
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 07/29/2019
Start Time: 12:44:58.0



Trip Duration	2415.00	s	ave THC	1.63229	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2415.00	s	ave NMHC	1.59964	ppm	BS CO	n/a	g/hphr
Trip Distance	39.08	mi	ave CH4	0.03265	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	39.08	mi	ave CO	155.42156	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.43787	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	5.61306	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.80	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.77	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	0.99	gall	tot THC	0.03254	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	0.98	gall	tot NMHC	0.03010	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00072	g	DS CO2	216.85566	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	9.11445	g	DS CO	0.23324	g/mi
Trip Fuel Economy EU (ac)	39.45	mpg_US	tot CO2	8474.14045	g	DS THC	0.00083	g/mi
Trip Fuel Economy US (ac)	39.89	mpg_US	tot NO (d)	0.28700	g	DS NMHC	0.00077	g/mi
Trip Av. Eng. Speed	1853.00	rpm	tot NO2	0.04407	g	DS CH4	0.00002	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.33107	g	DS NO (d)	0.00734	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00113	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00847	g/mi
Trip Exhaust Mass	43.27	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	74.90	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	57.38	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	58.25192	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	4.14079	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 07/29/2019

Start Time: 12:44:58.0



Concerto M.O.V.E., 2018

Trip Duration	2415.00	s	ave THC DC	1.76782	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2415.00	s	ave NMHC DC	1.73246	ppm	BS CO DC	n/a	g/hphr
Trip Distance	39.08	mi	ave CH4 DC	0.03536	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	39.08	mi	ave CO DC	155.46043	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.36166	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	5.62959	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.80	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.77	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	0.99	gall	tot THC DC	0.03546	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	0.98	gall	tot NMHC DC	0.03280	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00079	g	DS CO2 DC	215.52707	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	9.11673	g	DS CO DC	0.23330	g/mi
Trip Fuel Economy EU (ac)	39.45	mpg_US	tot CO2 DC	8422.22264	g	DS THC DC	0.00091	g/mi
Trip Fuel Economy US (ac)	39.89	mpg_US	tot NO DC (d)	0.28818	g	DS NMHC DC	0.00084	g/mi
Trip Av. Eng. Speed	1853.00	rpm	tot NO2 DC	0.04374	g	DS CH4 DC	0.00002	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.33193	g	DS NO DC (d)	0.00737	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00112	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.00849	g/mi
Trip Exhaust Mass	43.27	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	74.90	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	57.38	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	58.25192	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	4.14079	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

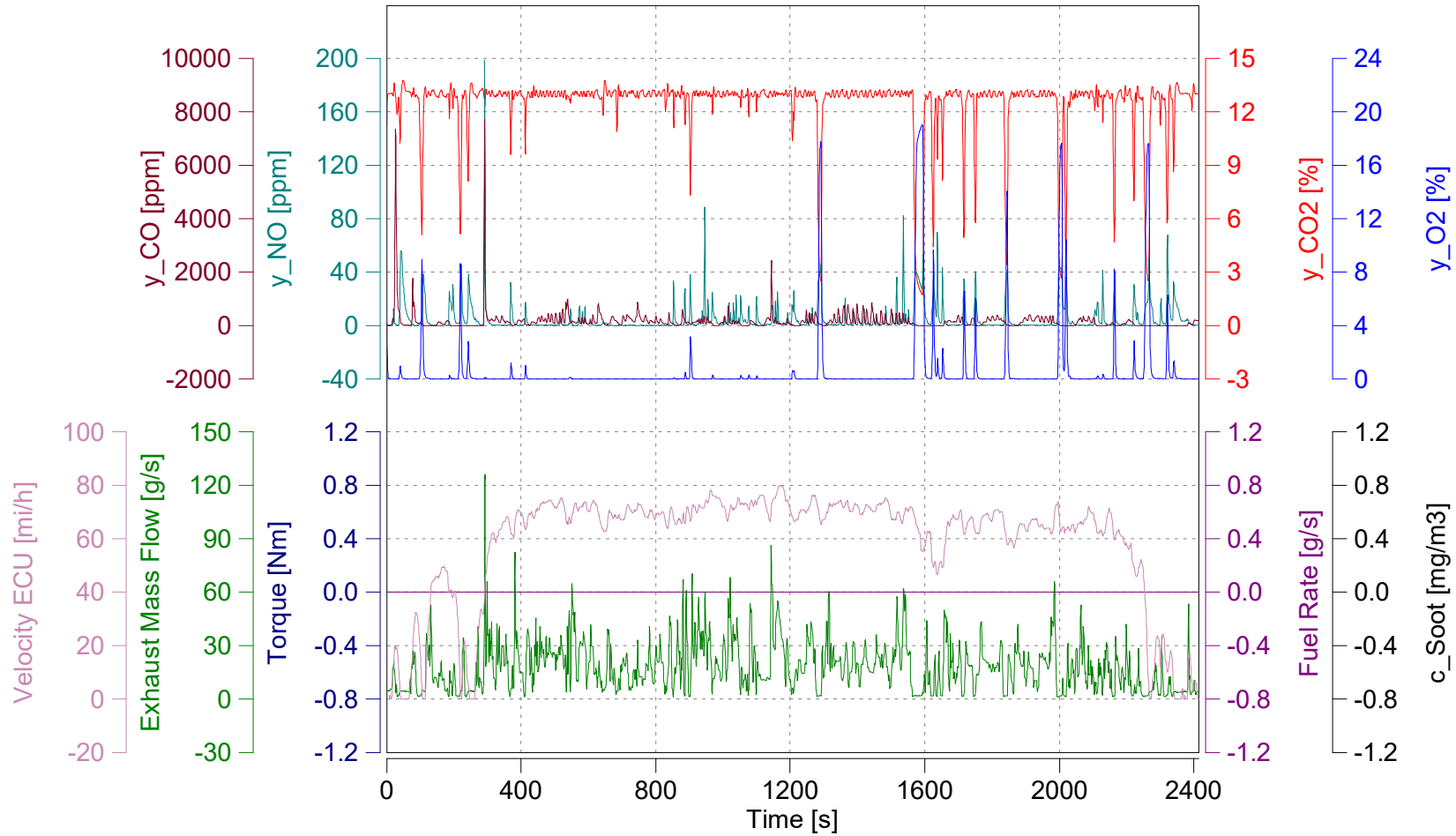
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Vehicle: Jetta / 1.4L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

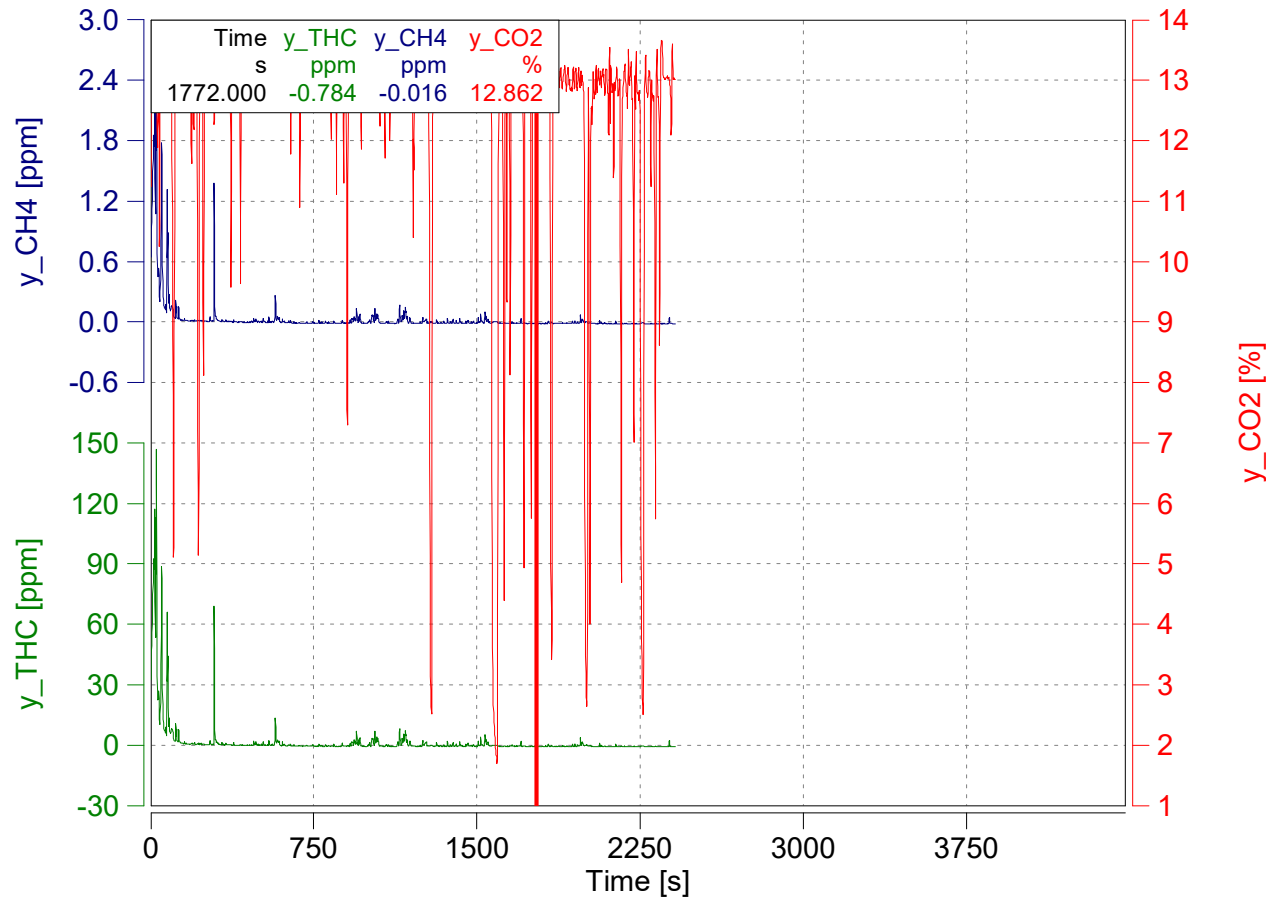
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Vehicle: Jetta / 1.4L

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Dry / Wet Corr.: 2 - CFR40 §86.1342-90

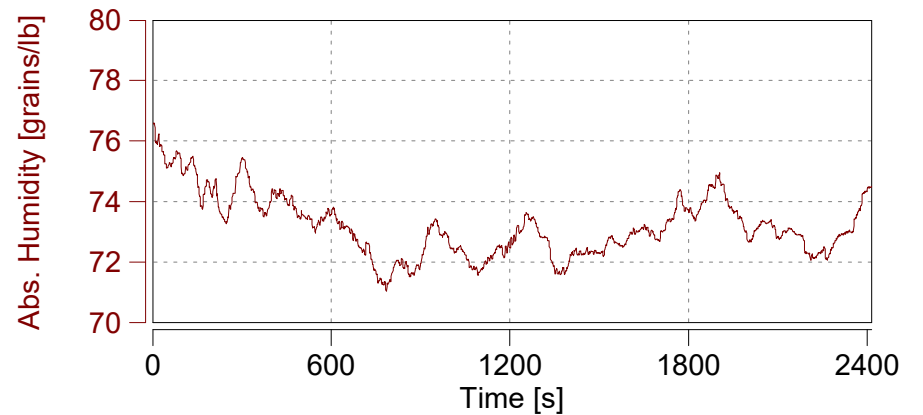
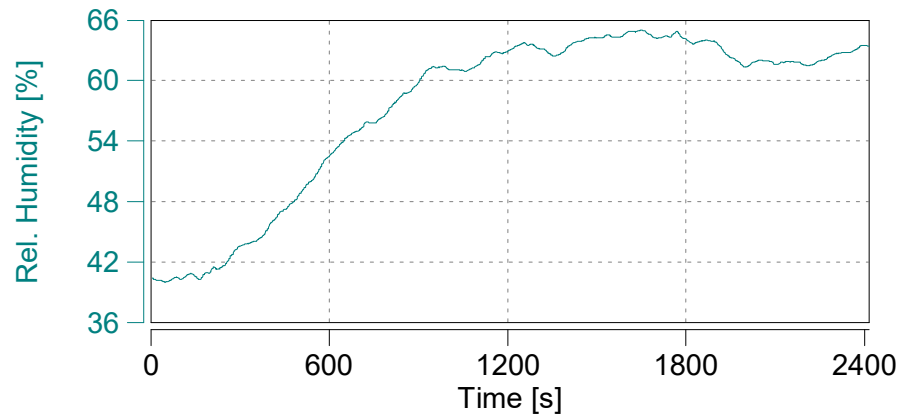
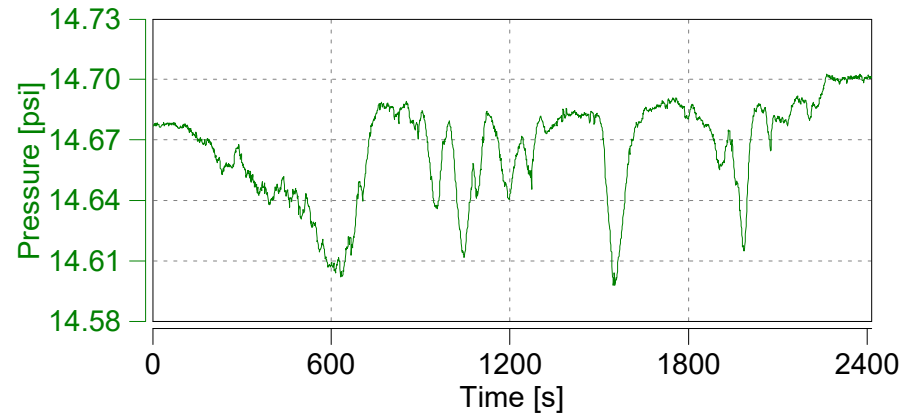
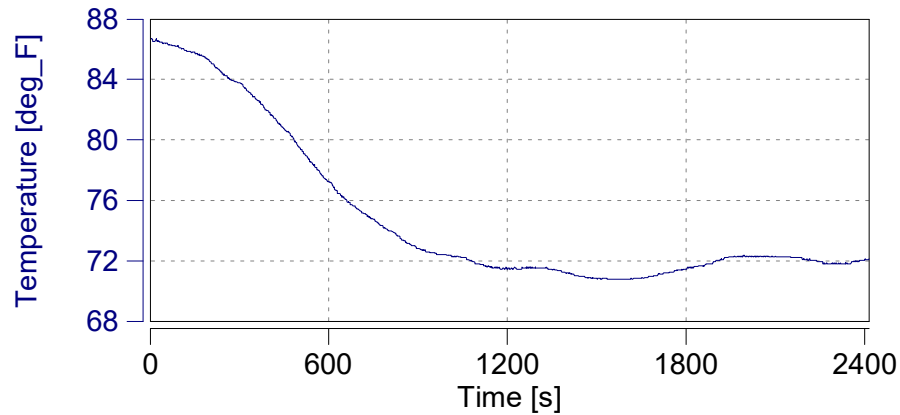


Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

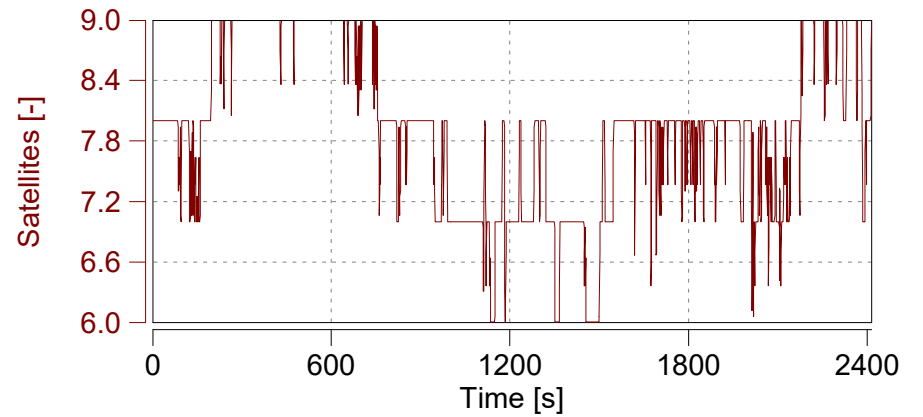
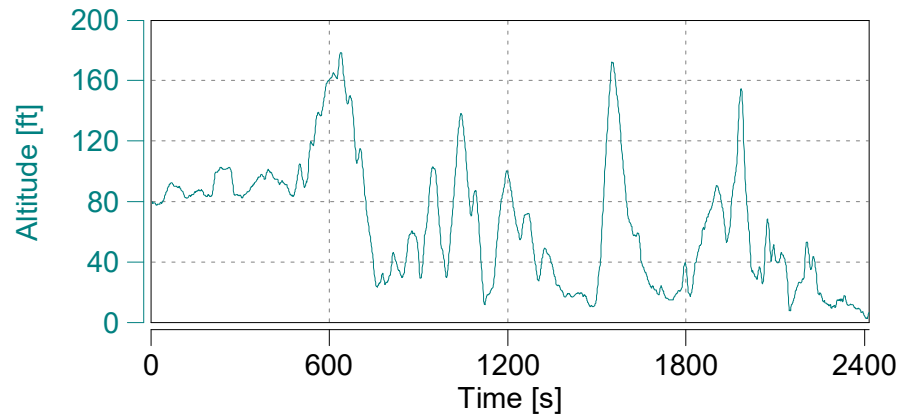
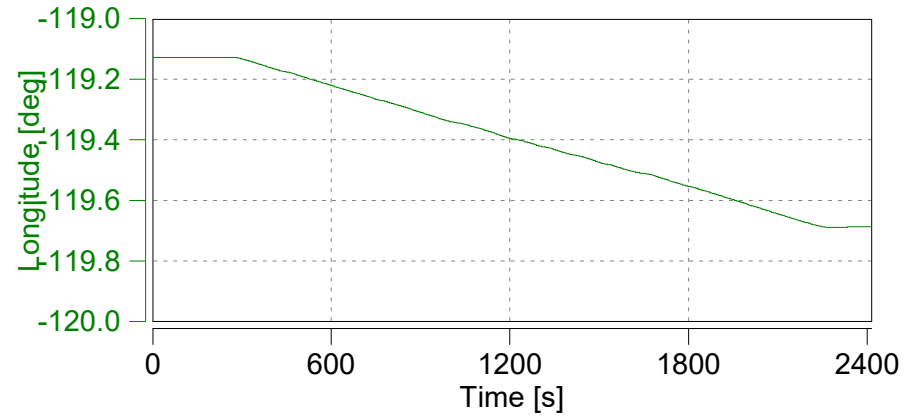
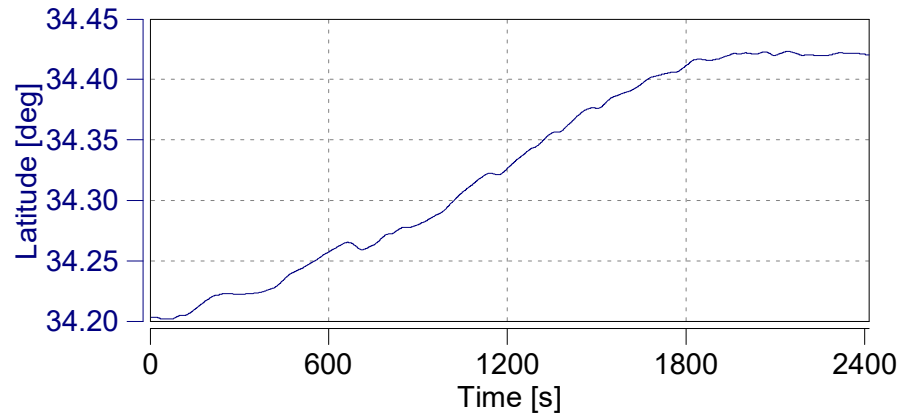
'Highway'

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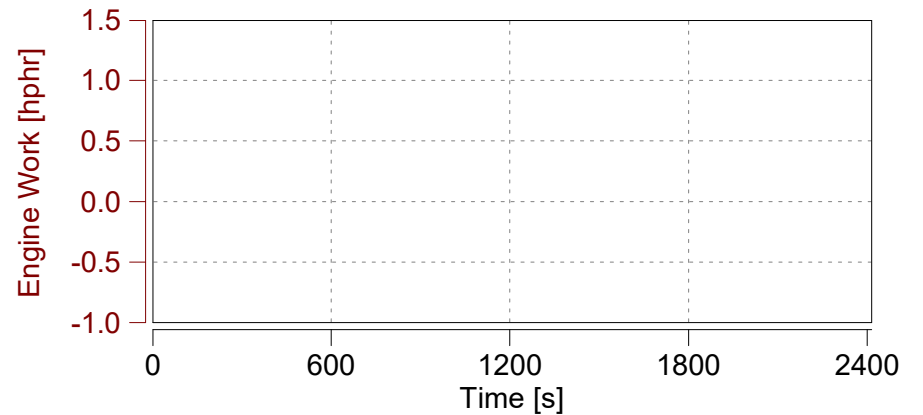
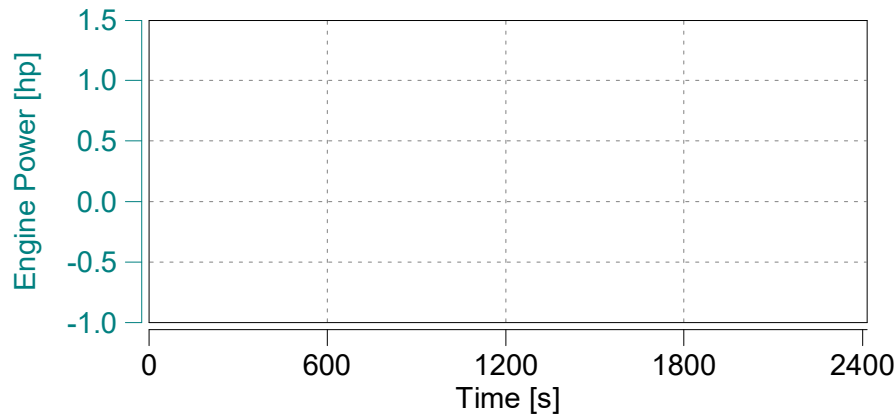
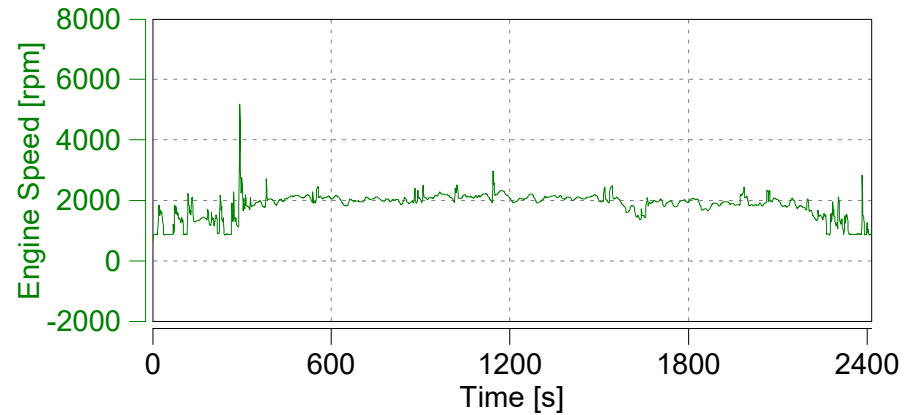
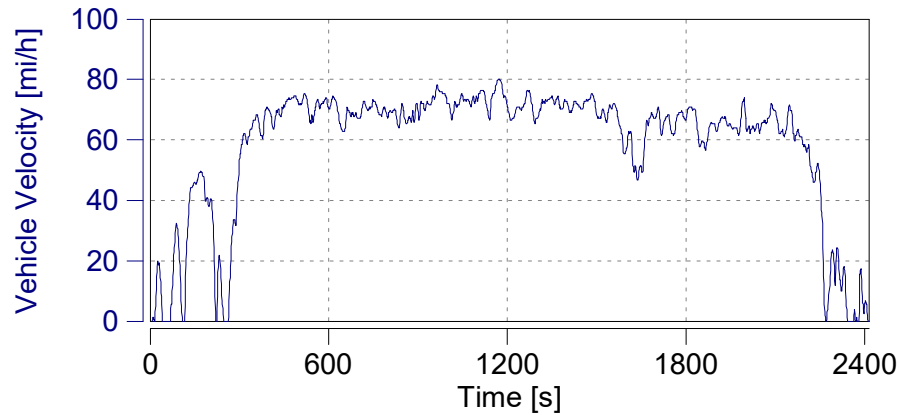


Concerto M.O.V.E., 2018



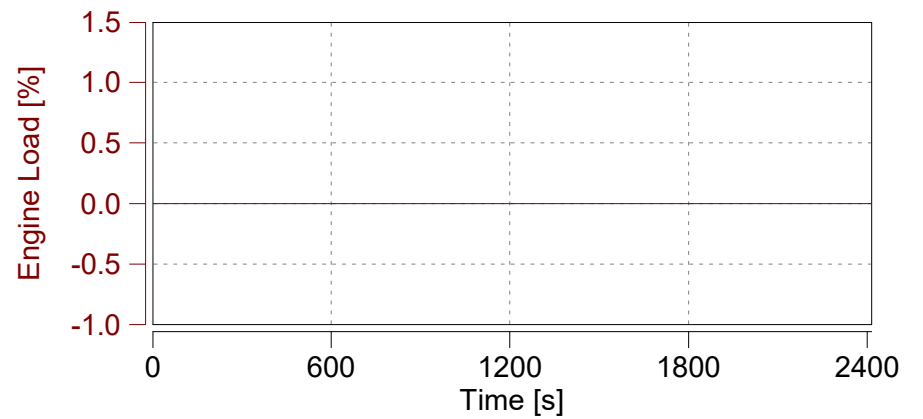
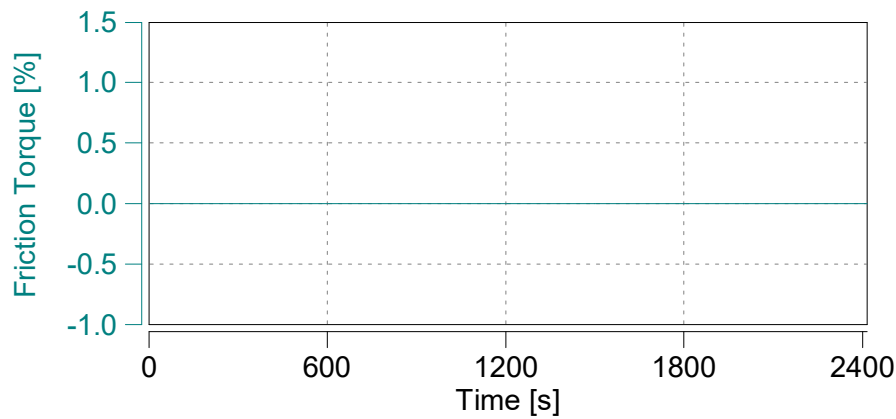
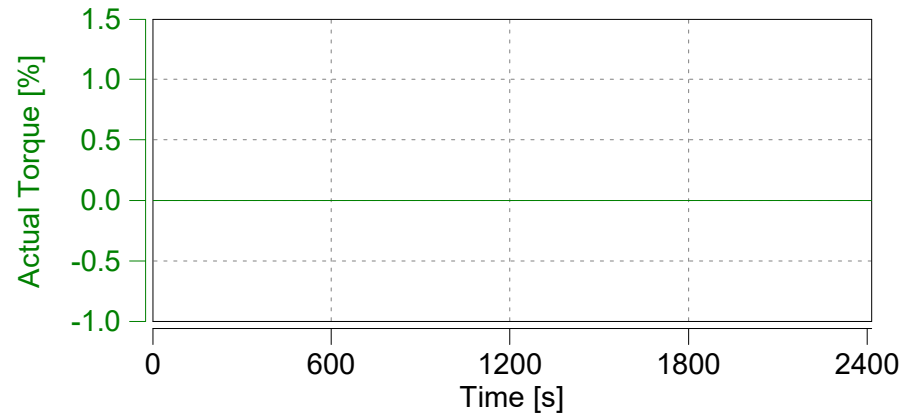
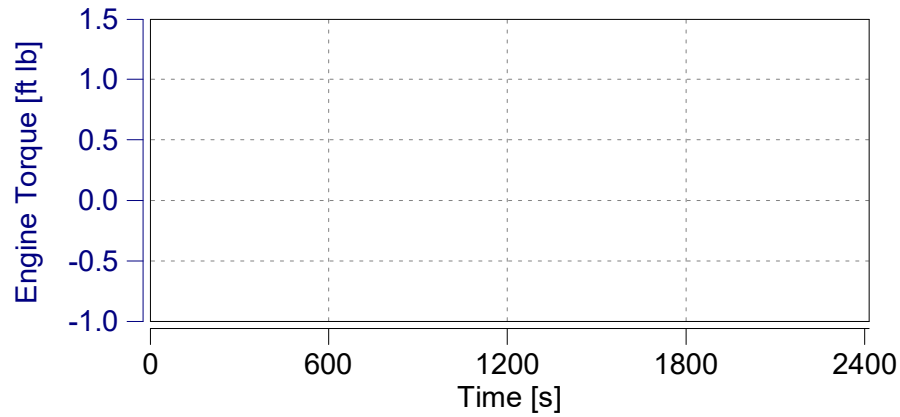
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Jetta / 1.4L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



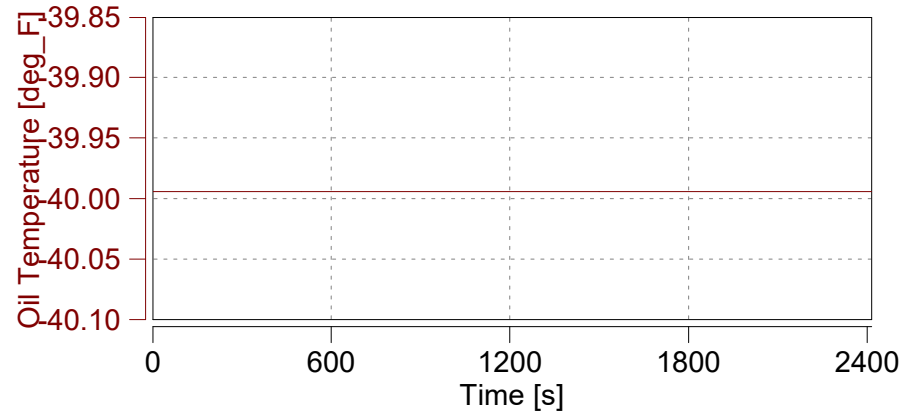
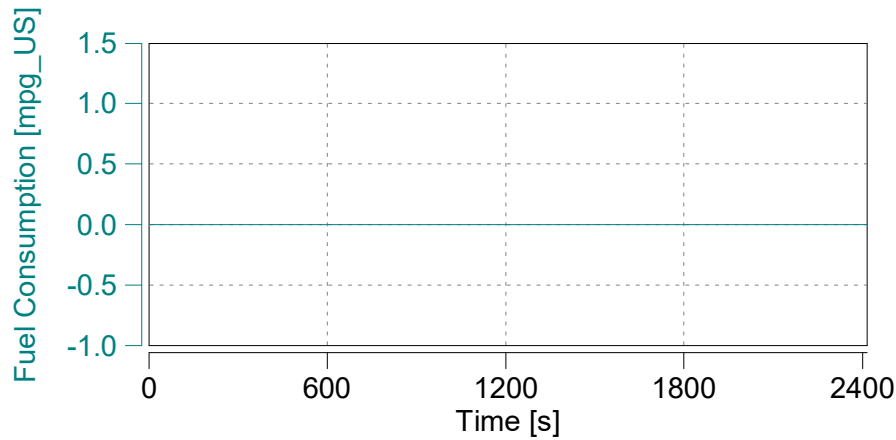
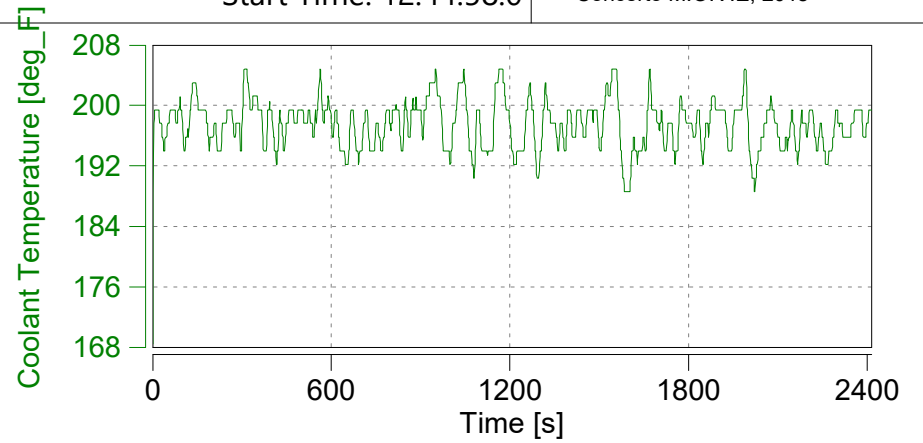
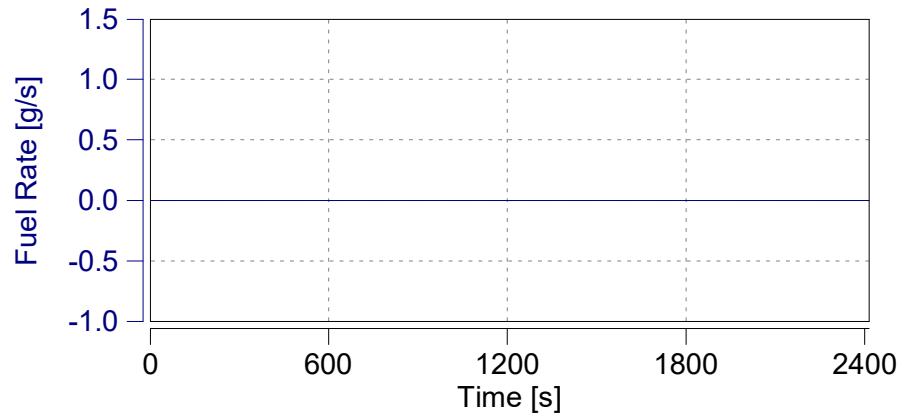
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Vehicle: Jetta / 1.4L
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NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Case: Highway

Page: Exhaust Flow (1)

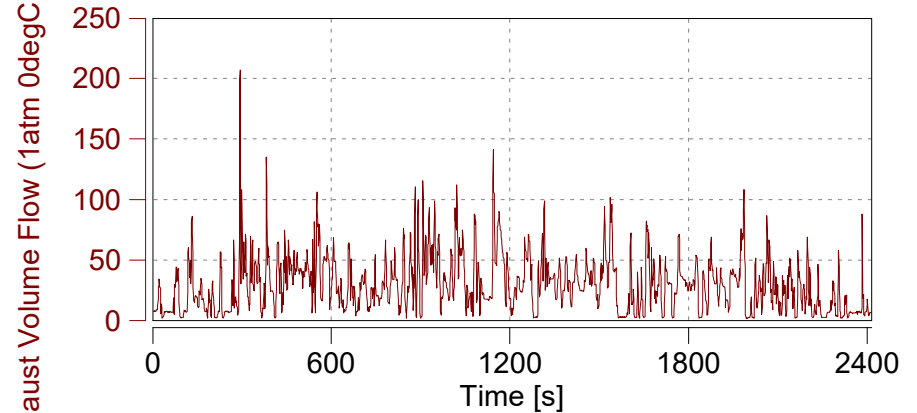
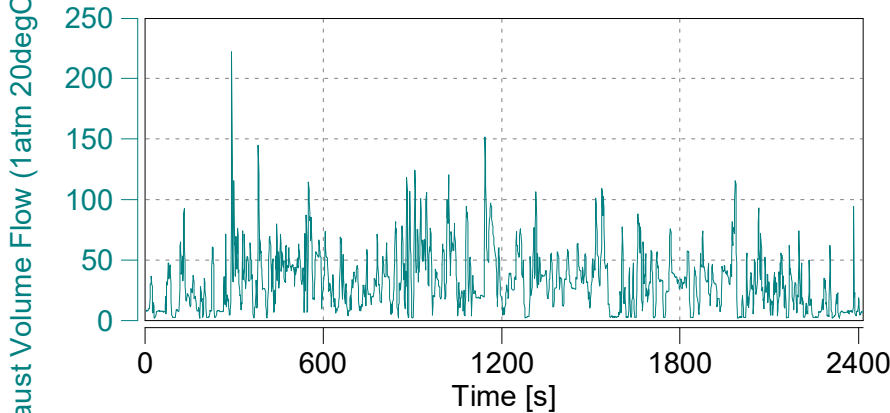
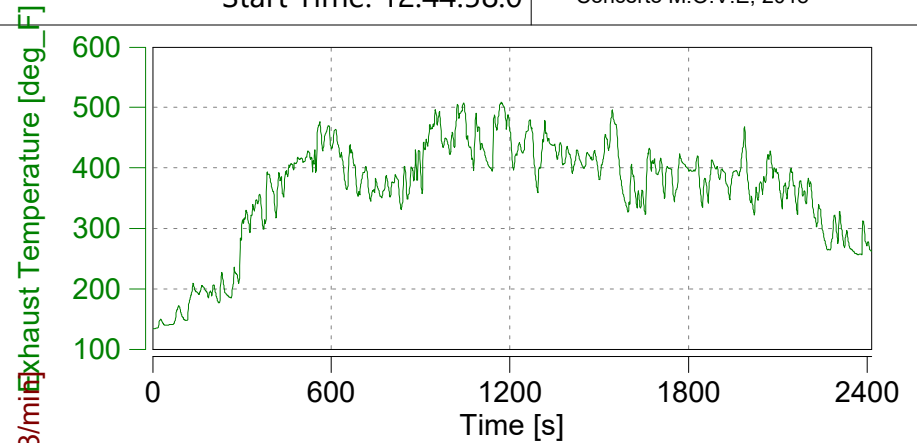
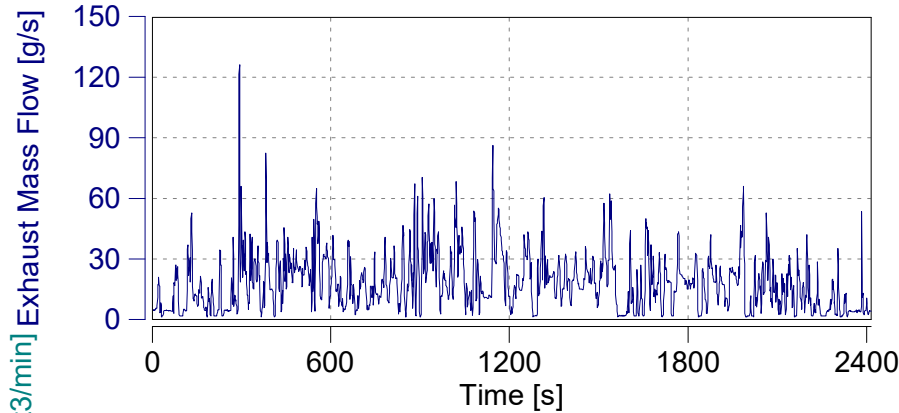
'Highway'

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Concerto M.O.V.E, 2018



Concerto Version: 480 Build 316, Serial Number: 1120

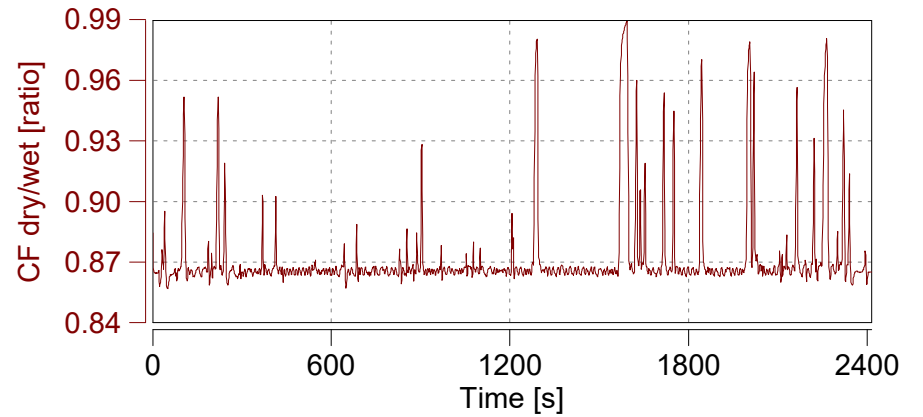
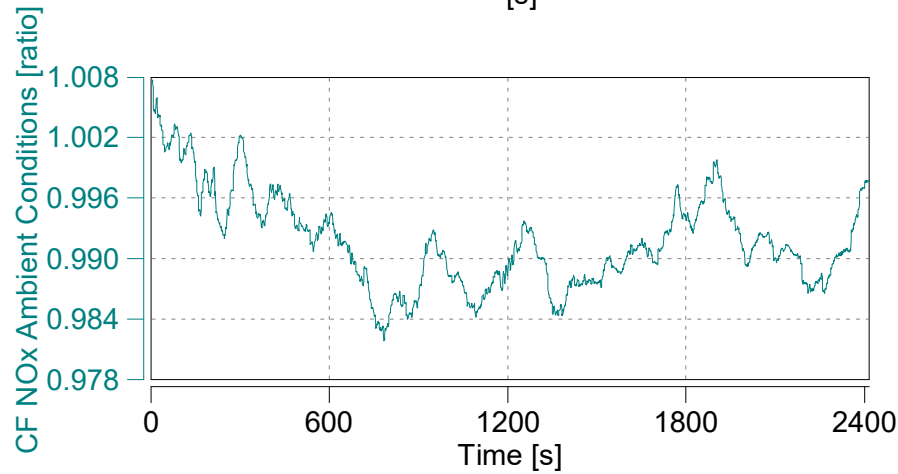
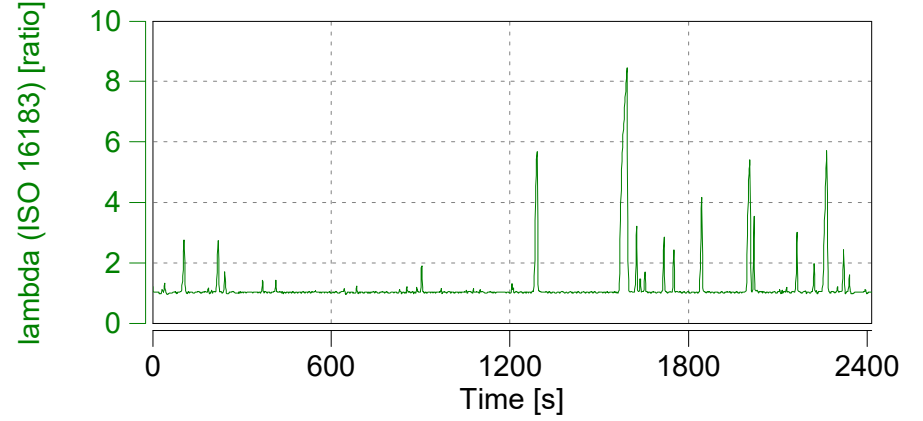
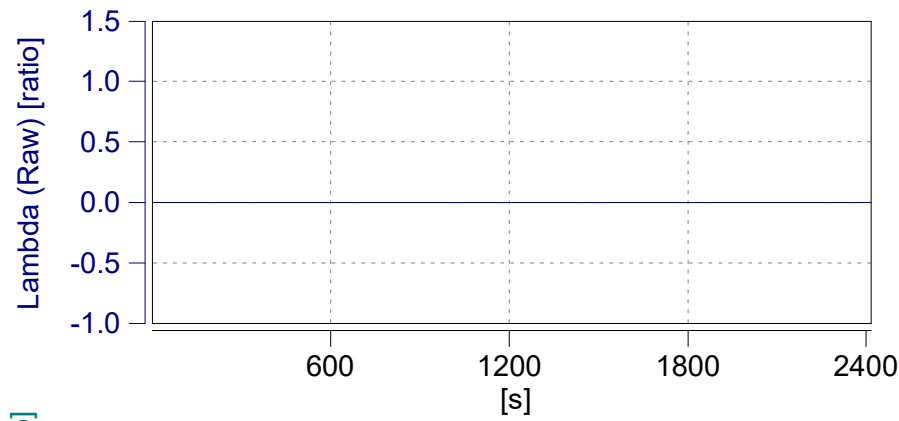
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Vehicle: Jetta / 1.4L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

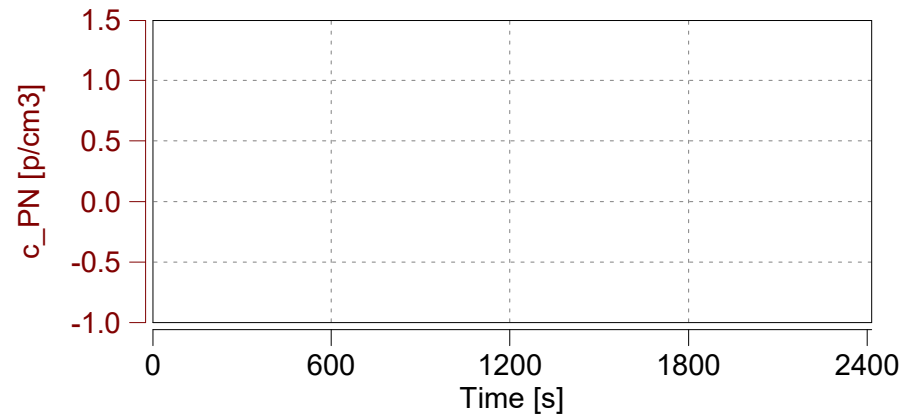
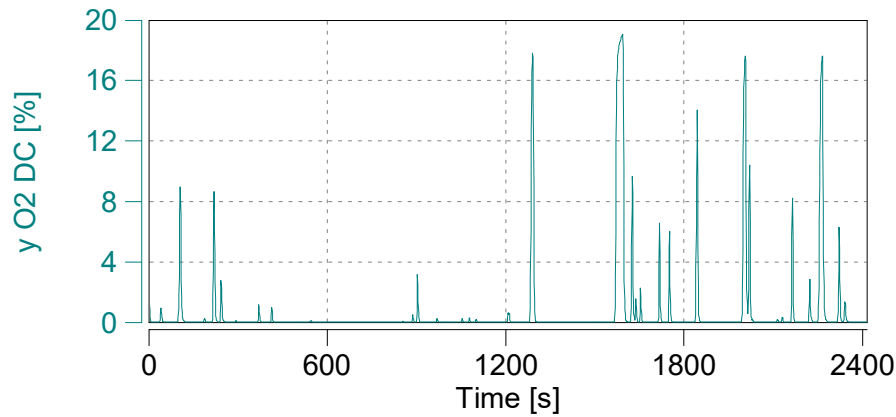
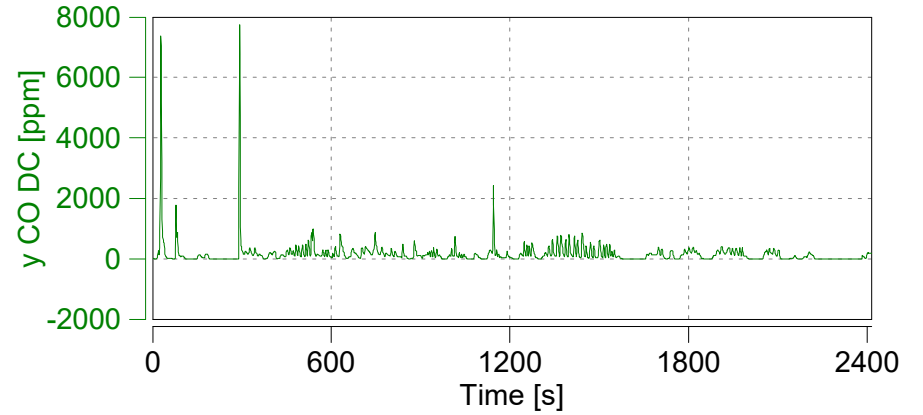
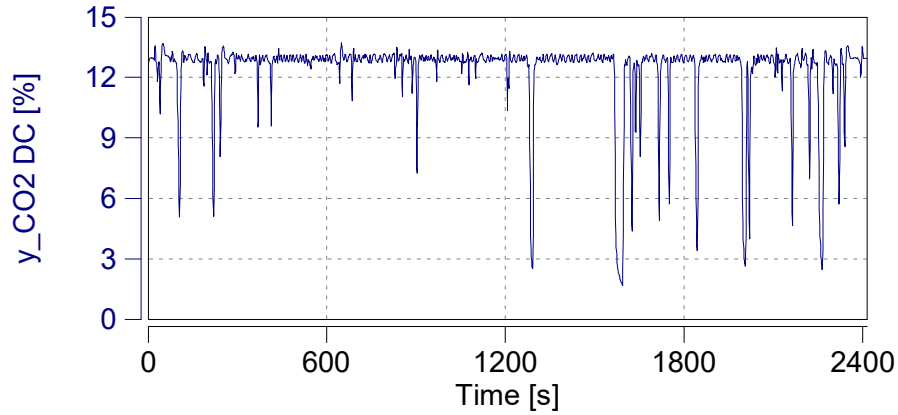
'Highway'

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Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

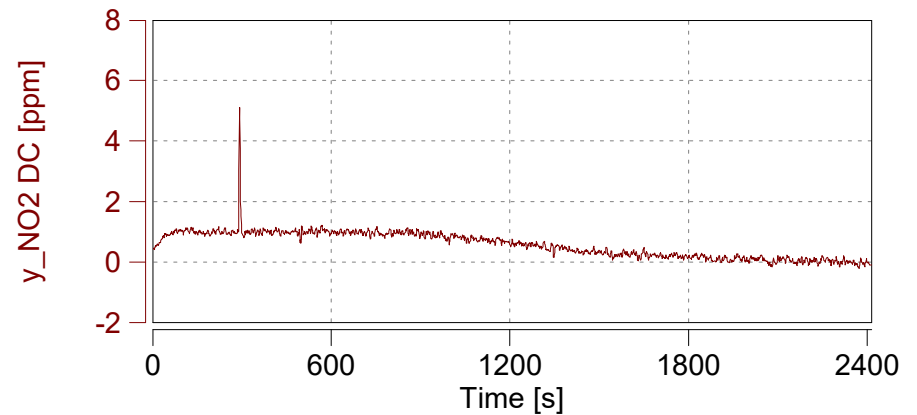
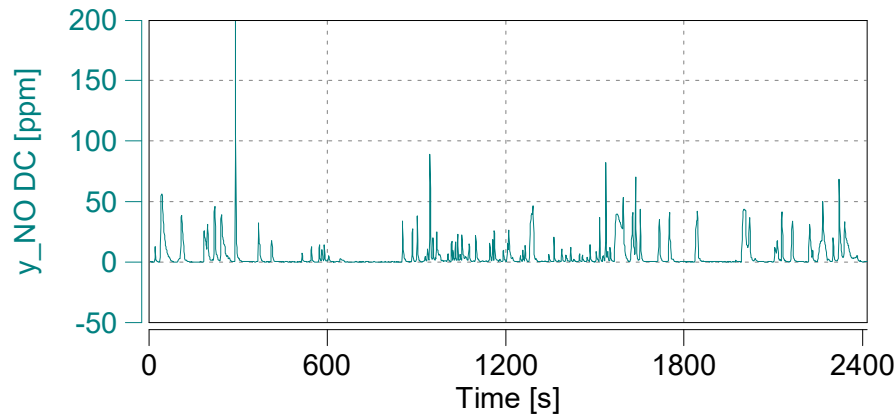
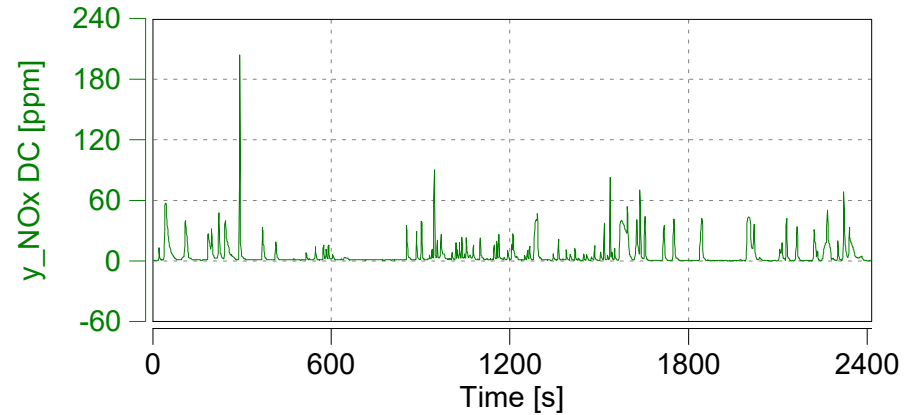
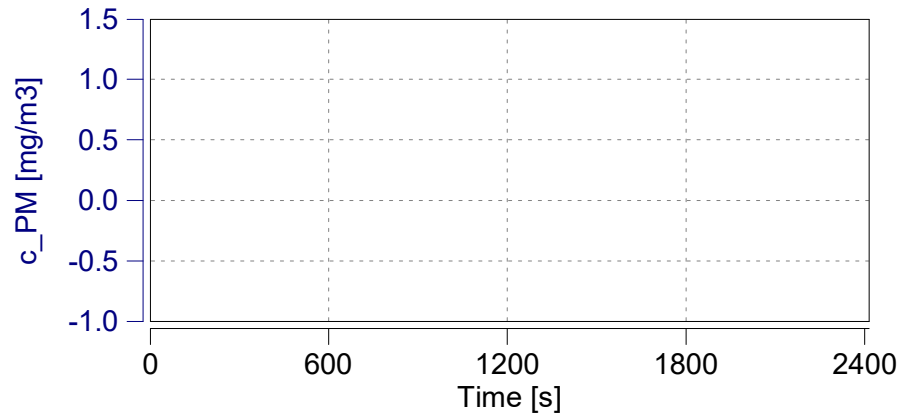
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Vehicle: Jetta / 1.4L

Engine: /

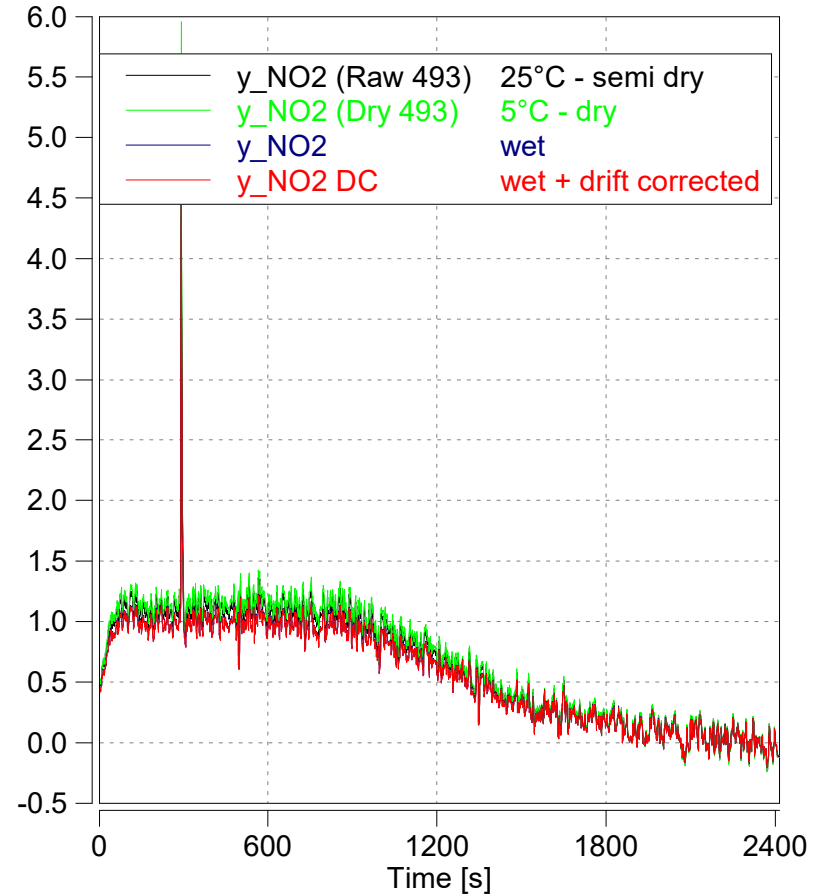
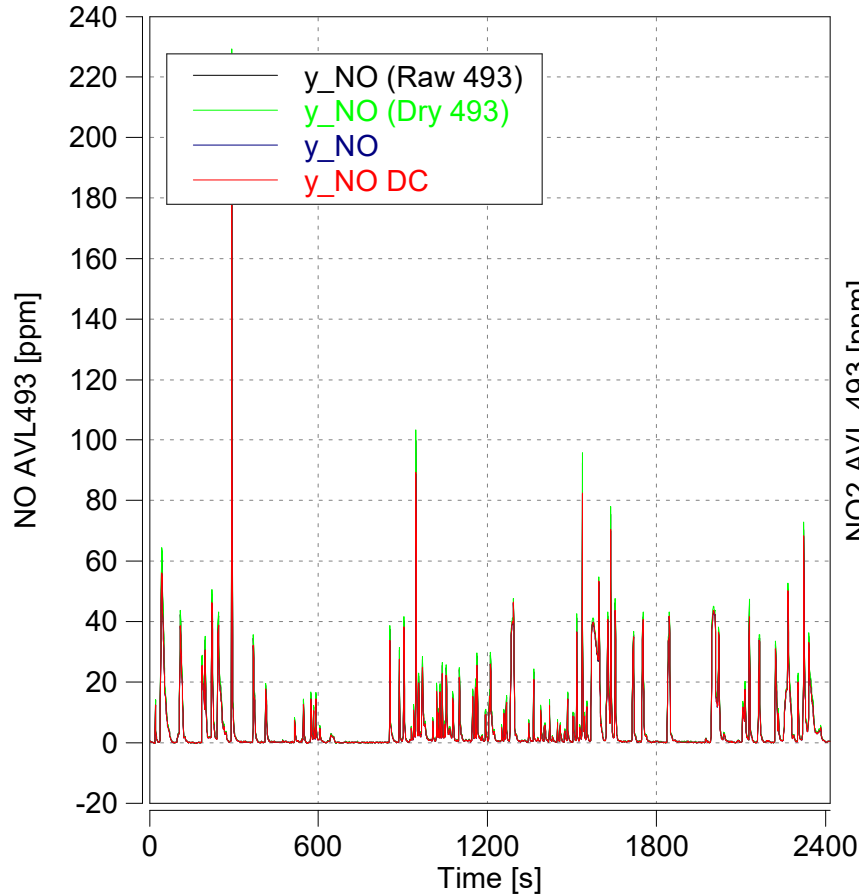
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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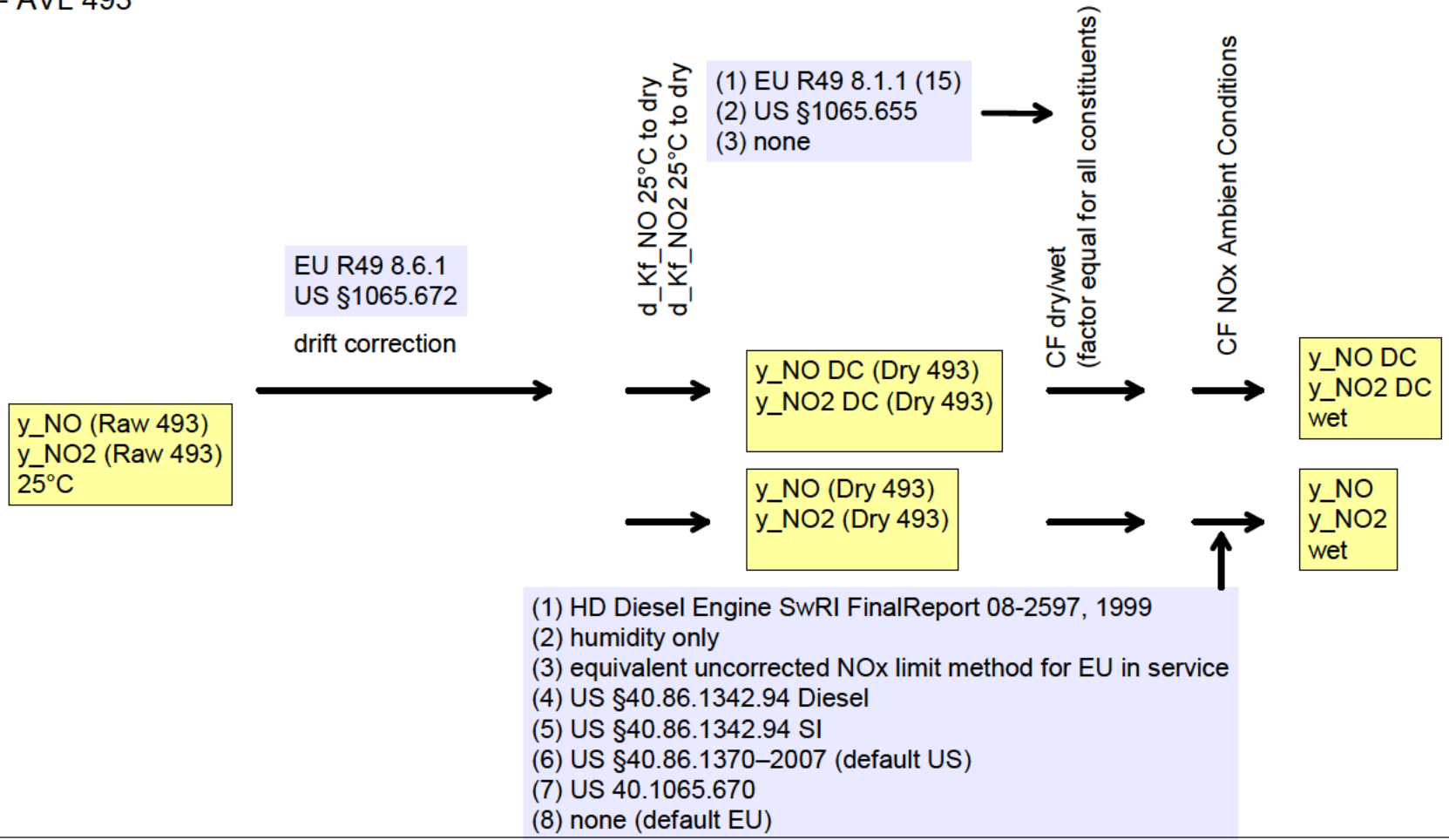


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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

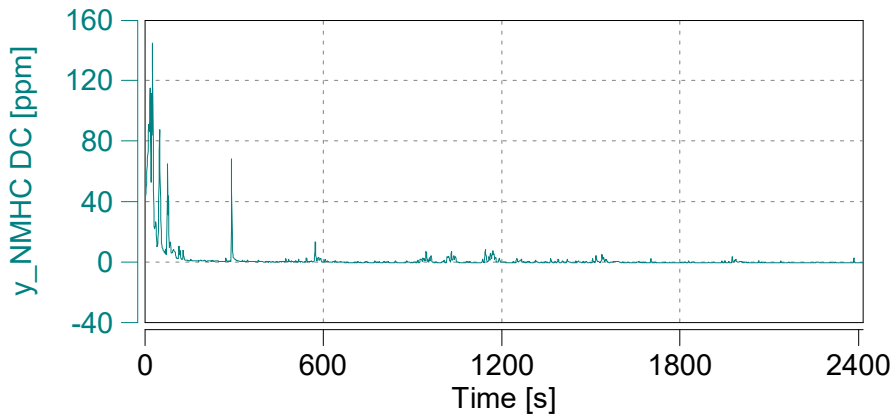
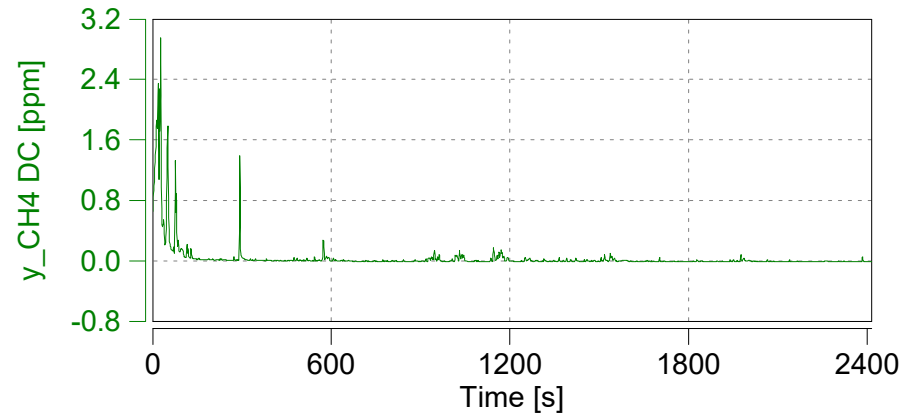
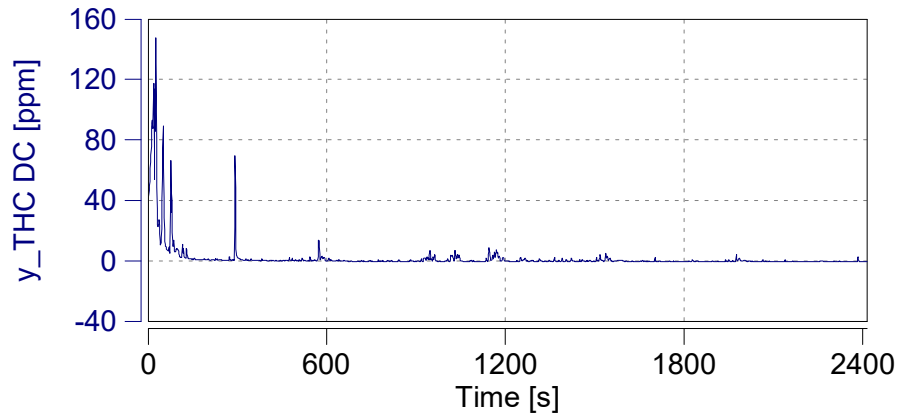
'Highway'

Start Date: 07/29/2019

Start Time: 12:44:58.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

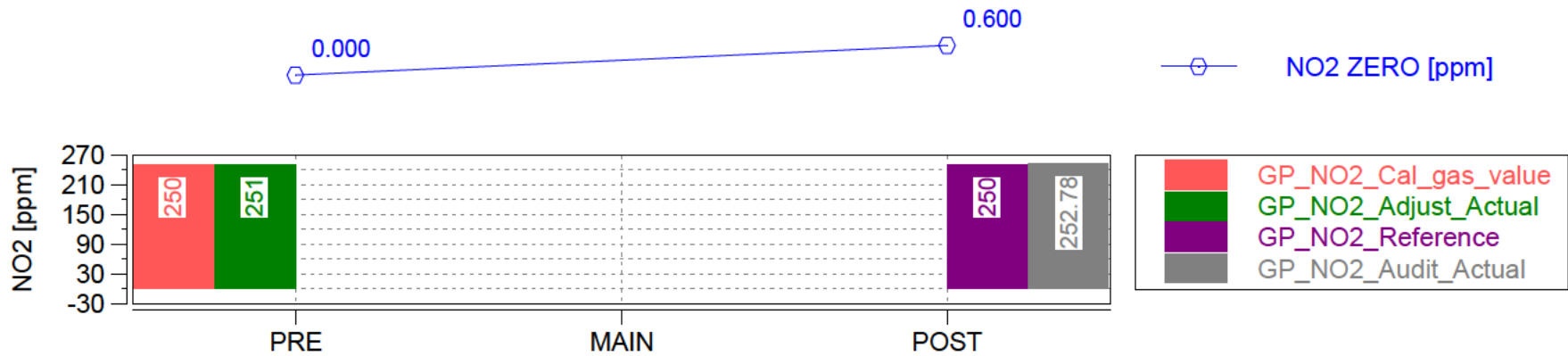
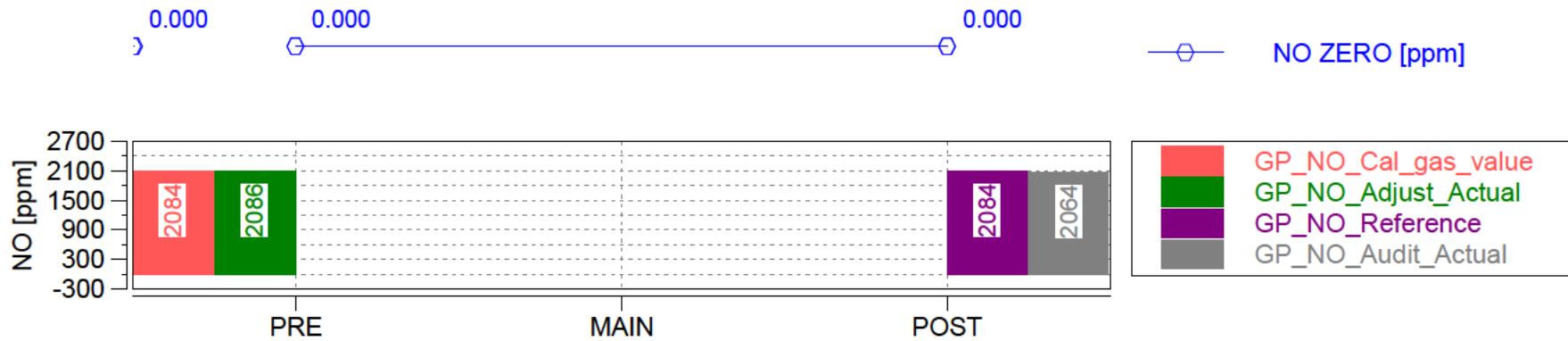
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

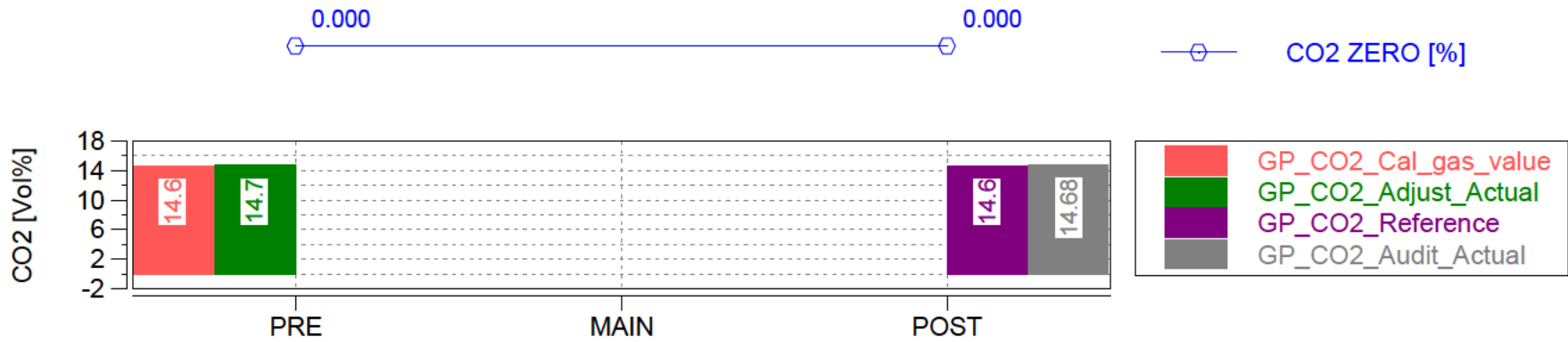
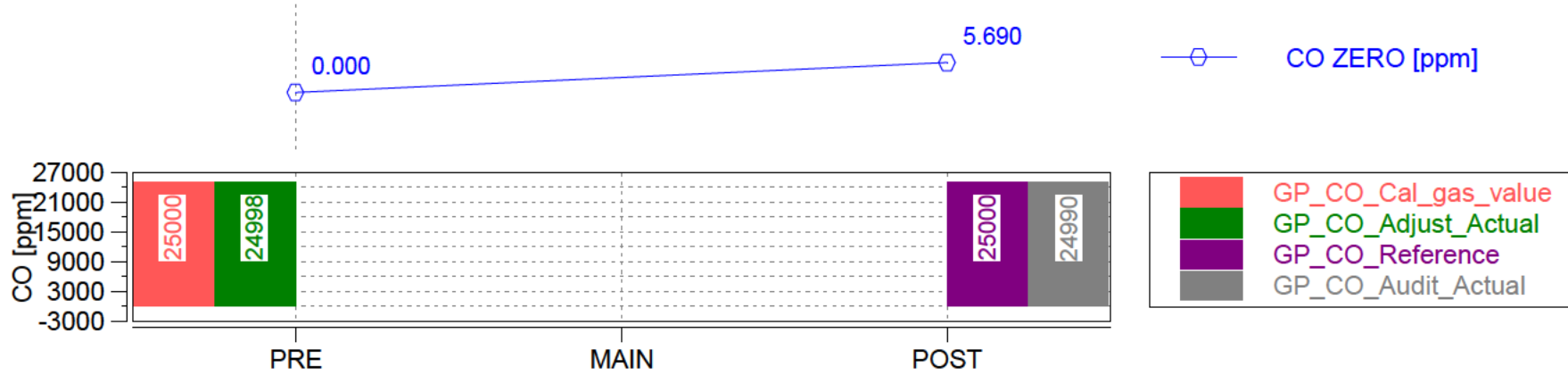
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L

Engine: /

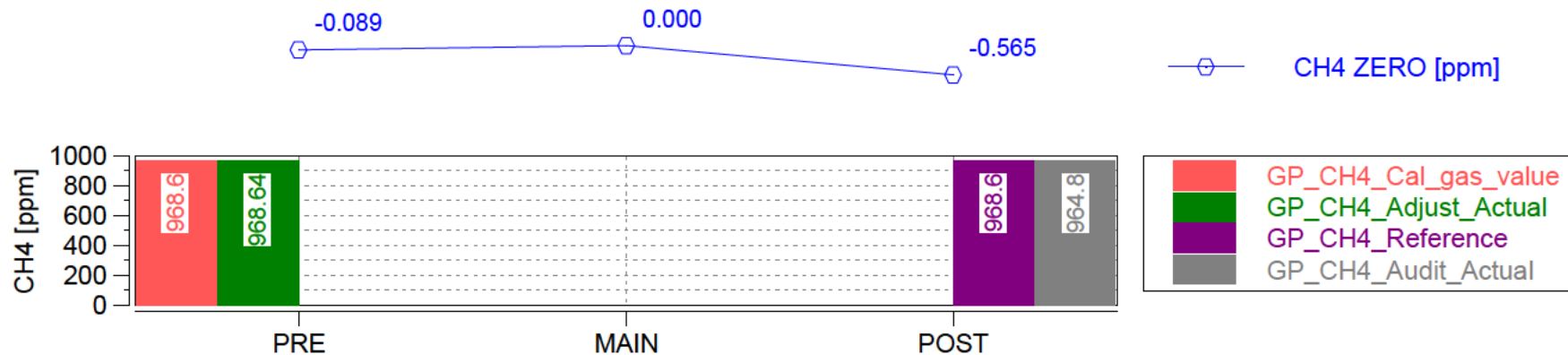
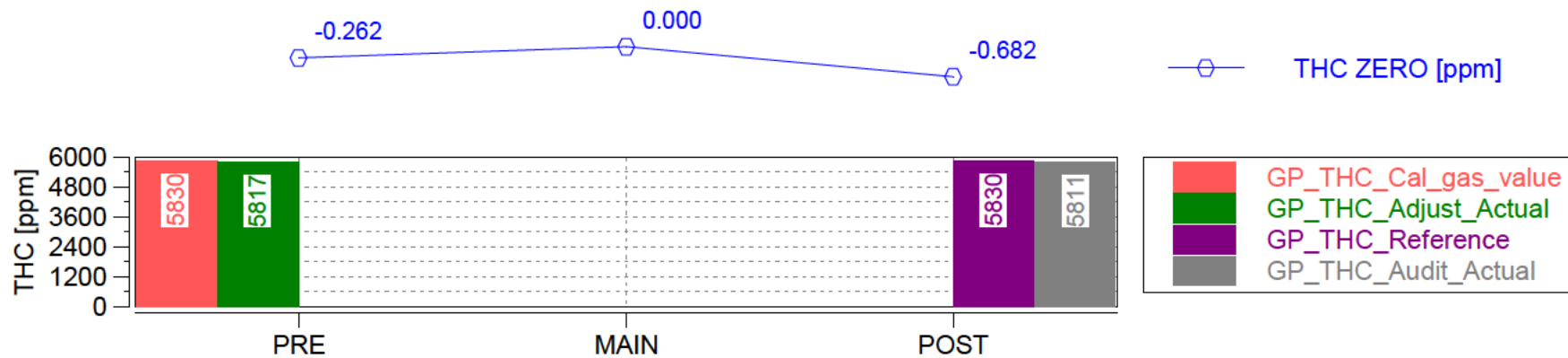
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 07/29/2019
Start Time: 12:44:58.0



Trip Duration	2755.00	s	ave THC	0.92814	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2755.00	s	ave NMHC	0.90957	ppm	BS CO	n/a	g/hphr
Trip Distance	29.05	mi	ave CH4	0.01856	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	29.05	mi	ave CO	63.23931	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	10.43796	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	7.57973	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.28	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.26	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	0.81	gall	tot THC	0.03450	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	0.80	gall	tot NMHC	0.03192	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00076	g	DS CO2	237.70041	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	4.16700	g	DS CO	0.14345	g/mi
Trip Fuel Economy EU (ac)	36.01	mpg_US	tot CO2	6904.94070	g	DS THC	0.00119	g/mi
Trip Fuel Economy US (ac)	36.42	mpg_US	tot NO (d)	0.29695	g	DS NMHC	0.00110	g/mi
Trip Av. Eng. Speed	1649.72	rpm	tot NO2	0.03507	g	DS CH4	0.00003	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.33202	g	DS NO (d)	0.01022	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00121	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01143	g/mi
Trip Exhaust Mass	36.11	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	79.18	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	48.71	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	37.96002	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	3.55717	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Trip Duration	2755.00	s	ave THC DC	1.06180	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2755.00	s	ave NMHC DC	1.04056	ppm	BS CO DC	n/a	g/hphr
Trip Distance	29.05	mi	ave CH4 DC	0.02124	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	29.05	mi	ave CO DC	63.25513	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	10.37401	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	7.60299	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.28	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.26	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC DC	0.03696	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	0.81	gall	tot NMHC DC	0.03419	g			
Trip Fuel Cons. Volume US (ac)	0.80	gall	tot CH4 DC	0.00082	g	DS CO2 DC	236.24411	g/mi
			tot CO DC	4.16804	g	DS CO DC	0.14348	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	6862.63677	g	DS THC DC	0.00127	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.29817	g	DS NMHC DC	0.00118	g/mi
Trip Fuel Economy EU (ac)	36.01	mpg_US	tot NO2 DC	0.03481	g	DS CH4 DC	0.00003	g/mi
Trip Fuel Economy US (ac)	36.42	mpg_US	tot NOx DC	0.33298	g	DS NO DC (d)	0.01026	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00120	g/mi
Trip Av. Eng. Speed	1649.72	rpm	tot Soot meas	n/a	g	DS NOx DC	0.01146	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	36.11	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	79.18	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	48.71	%	Trip Av. Veh. Speed	37.96002	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	3.55717	%	FS NO DC (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

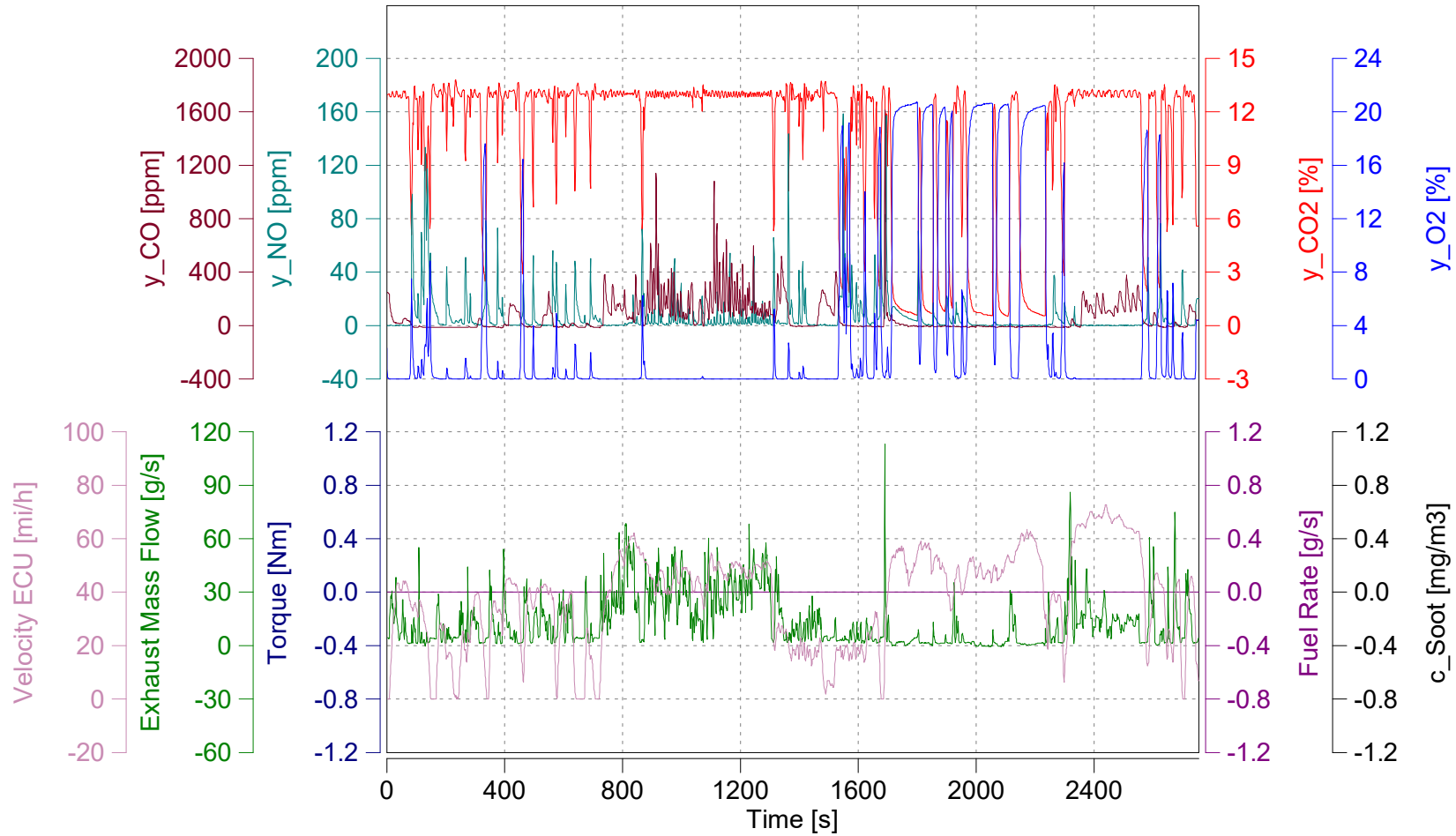
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Vehicle: Jetta / 1.4 L

Engine: /

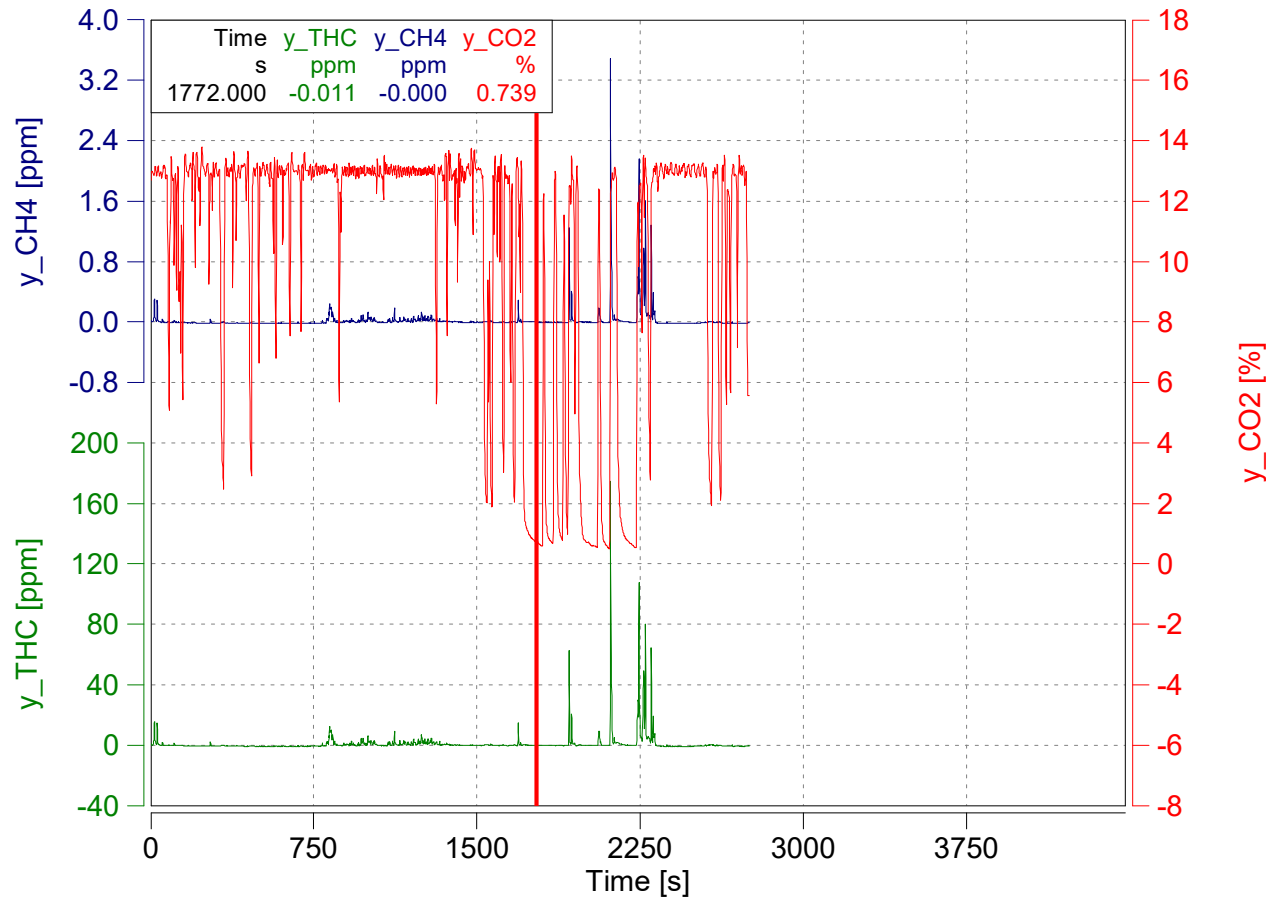
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

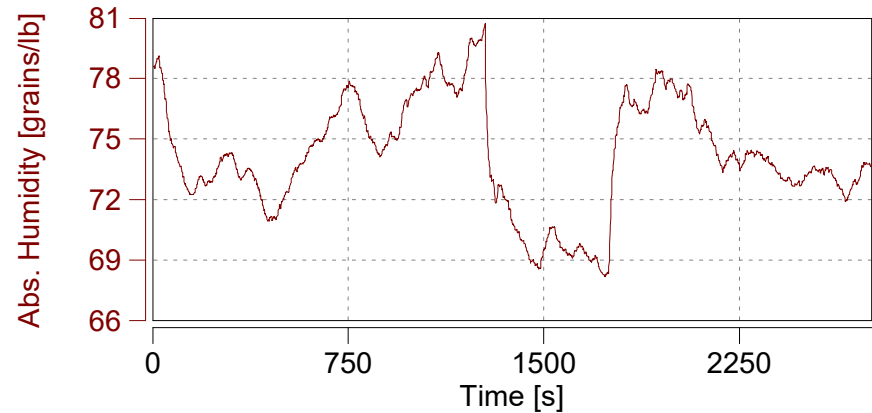
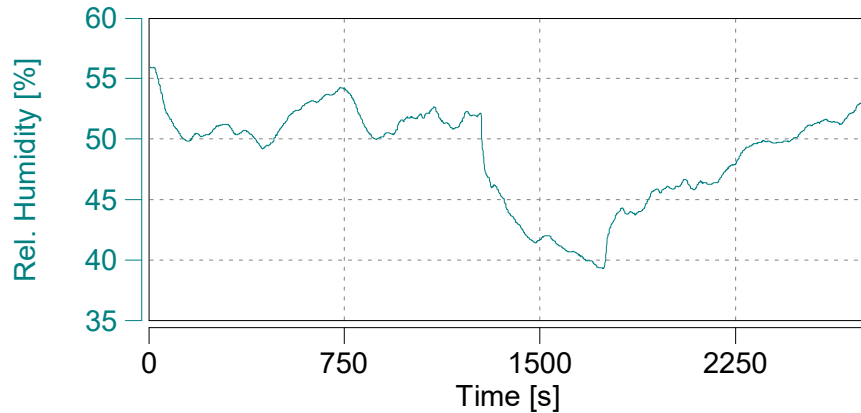
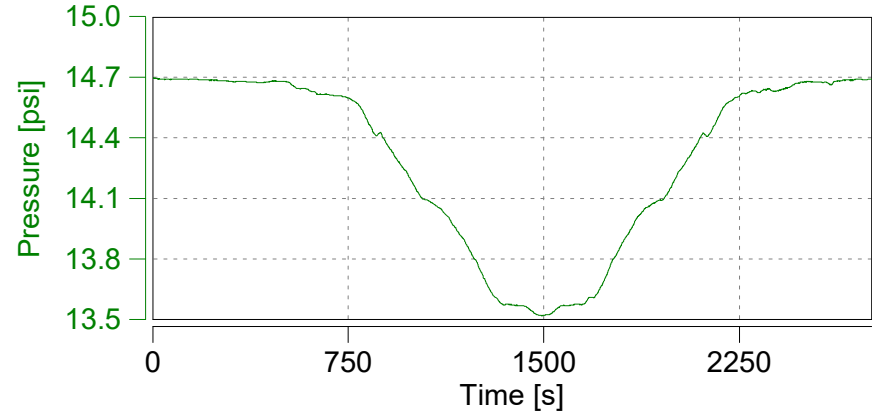
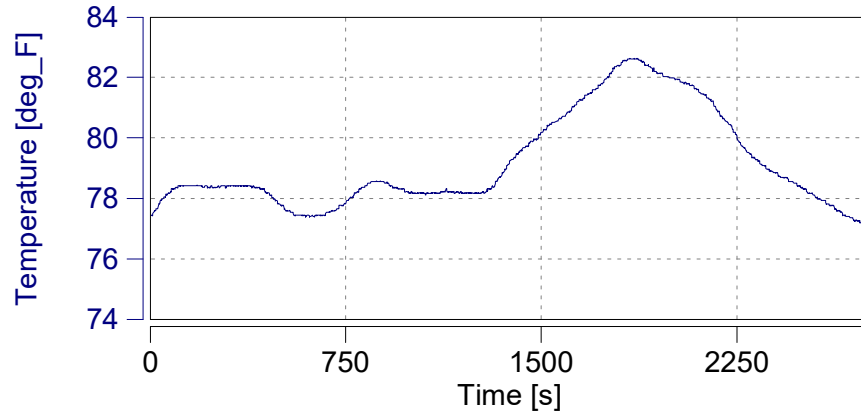


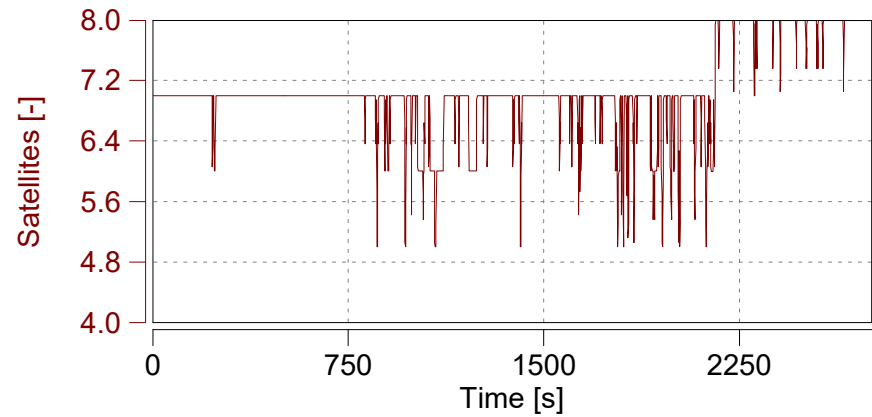
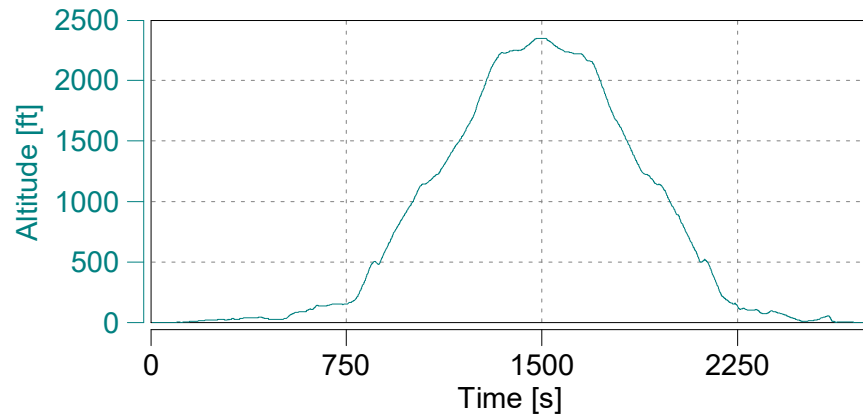
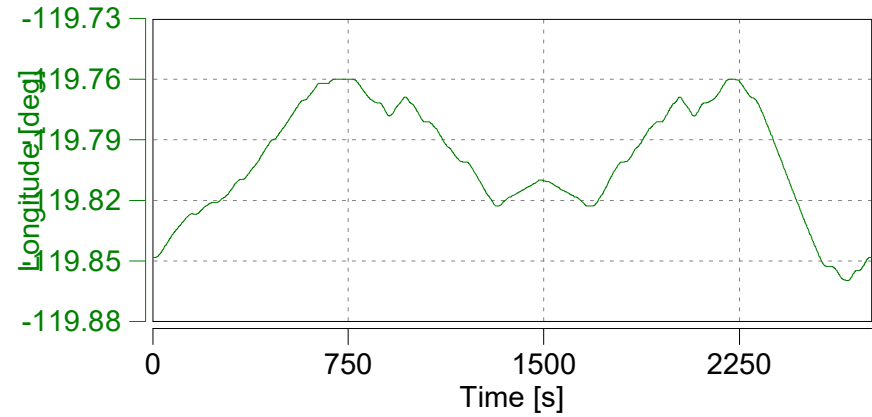
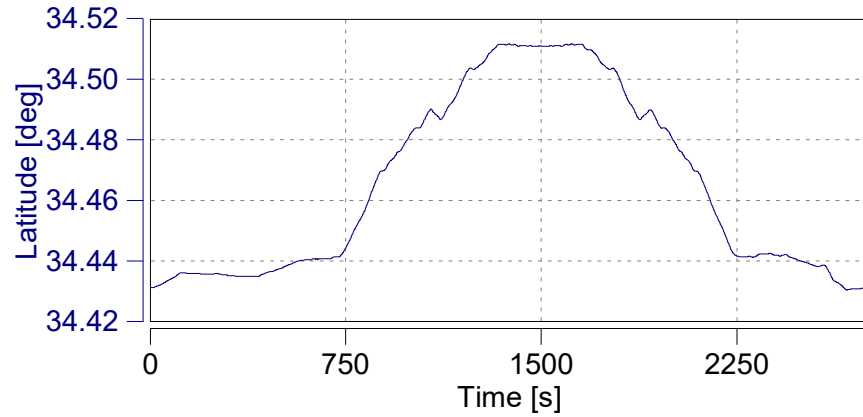
Absolute Time Shifts

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y_CH4	s	-1.1

Reset Time Shifts in Plot

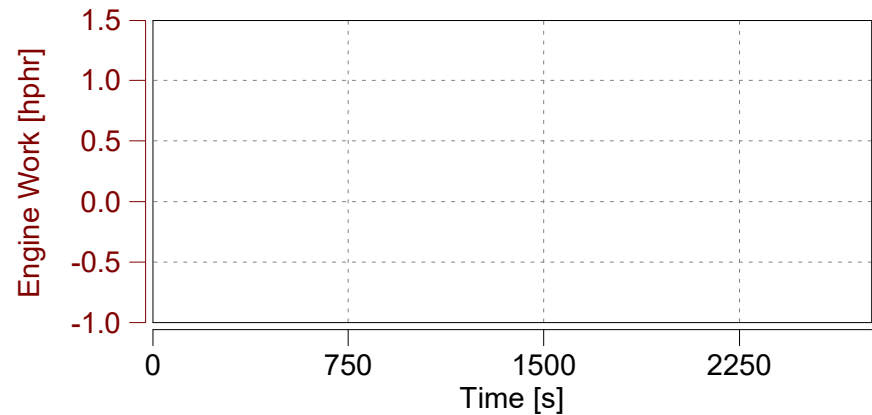
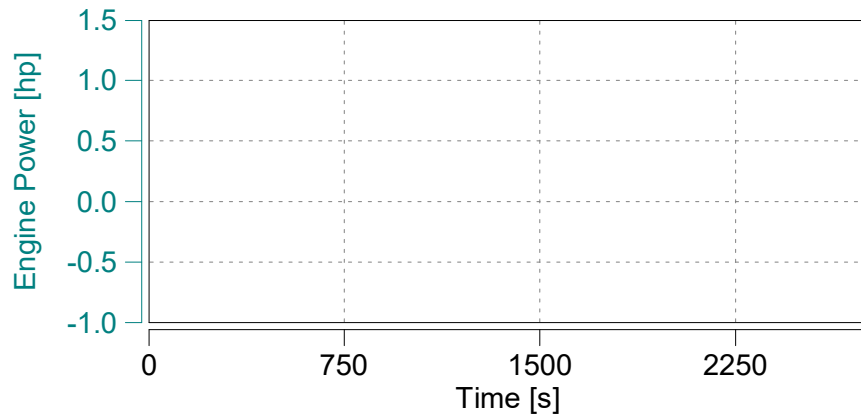
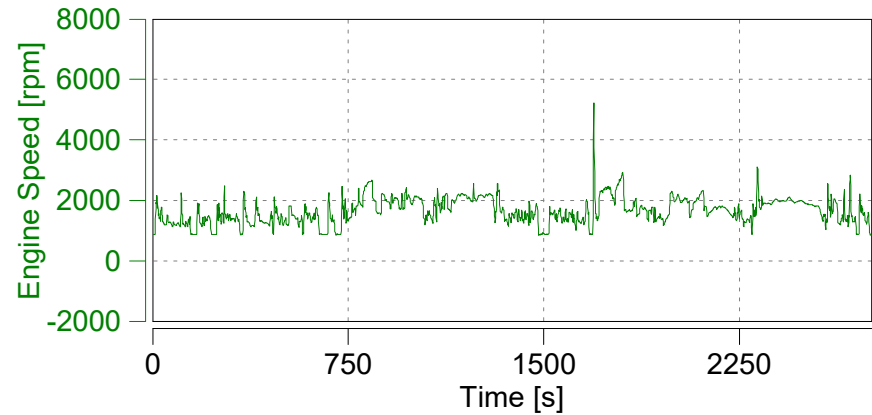
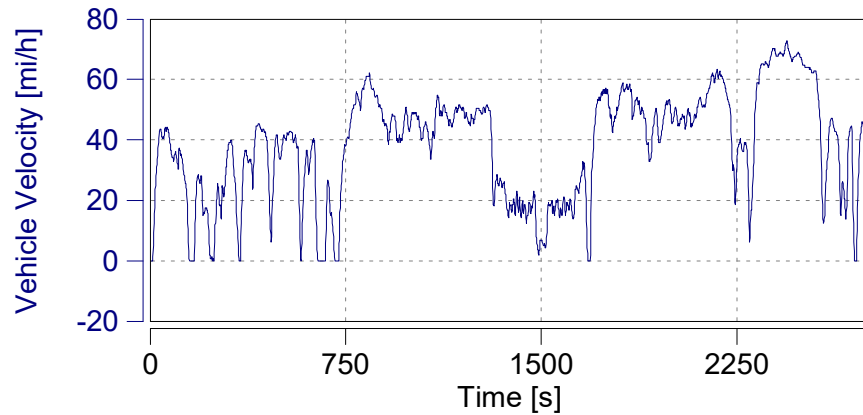
Apply Current Values





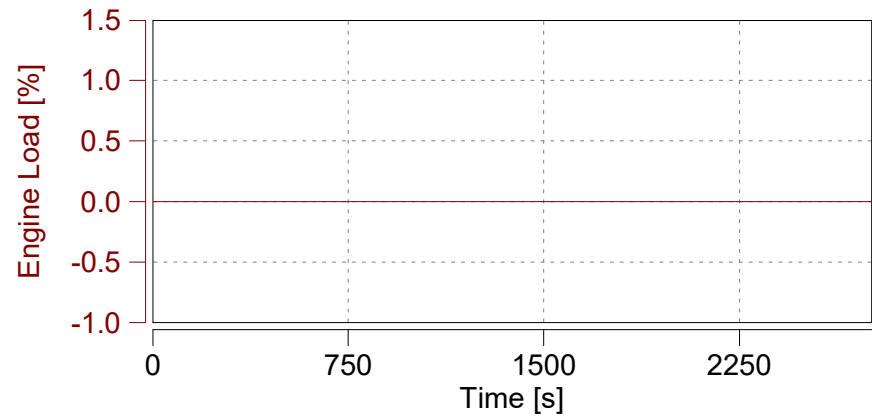
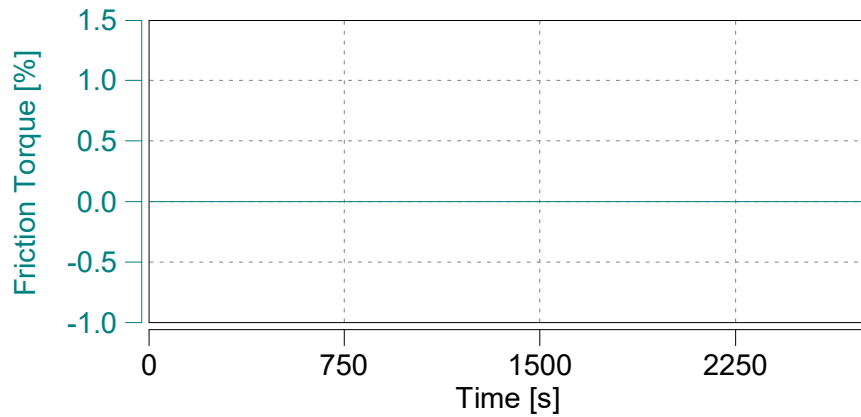
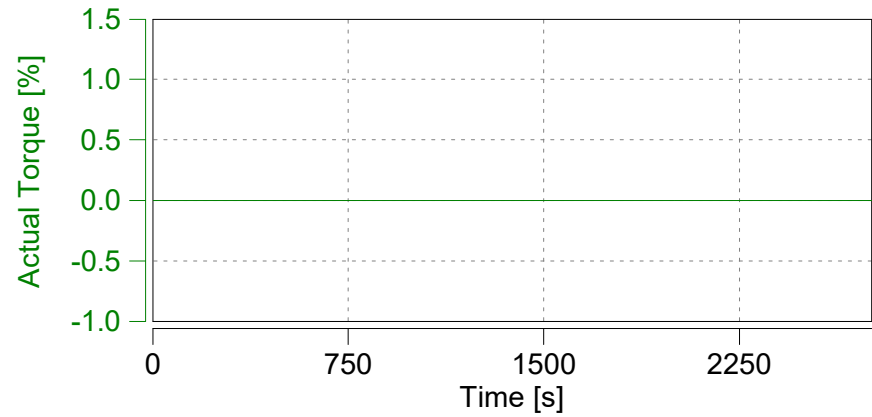
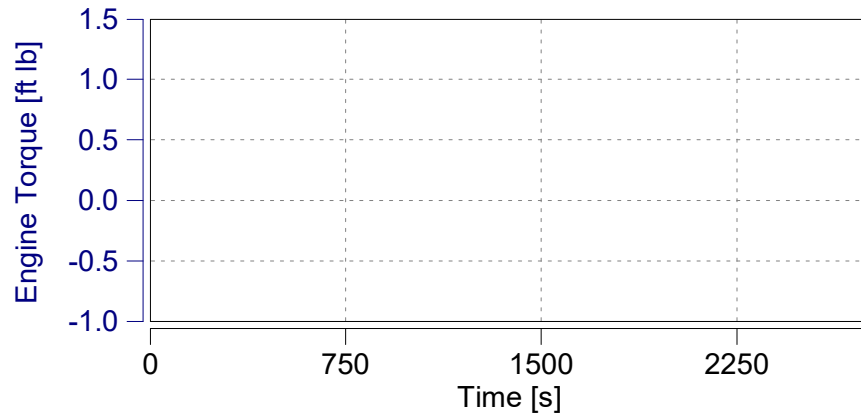
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



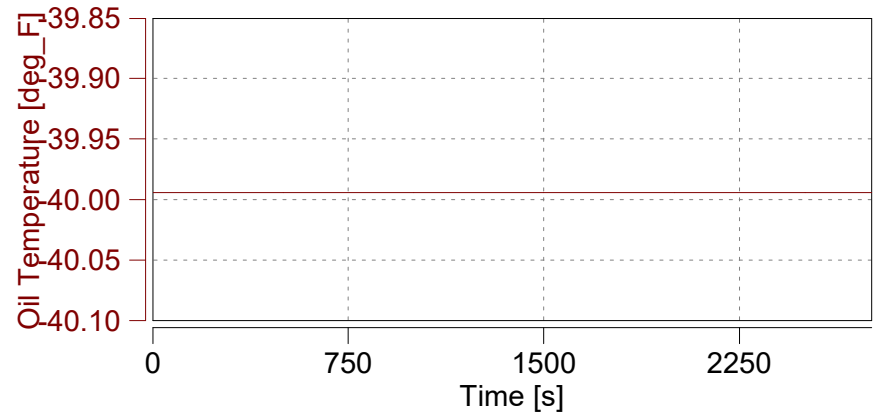
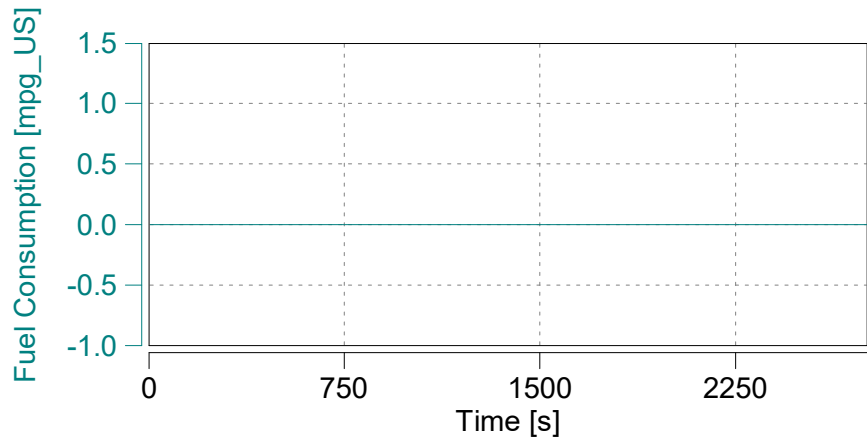
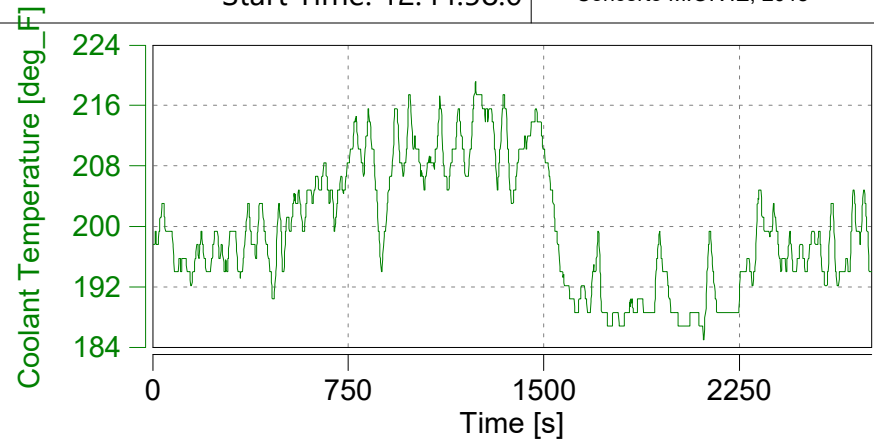
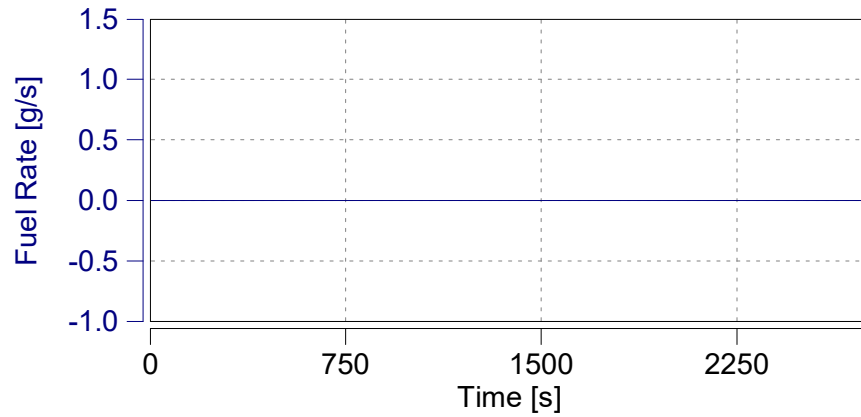
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



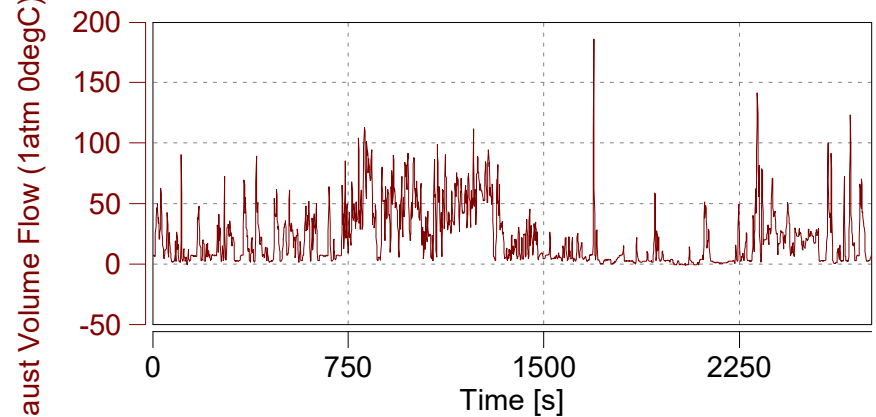
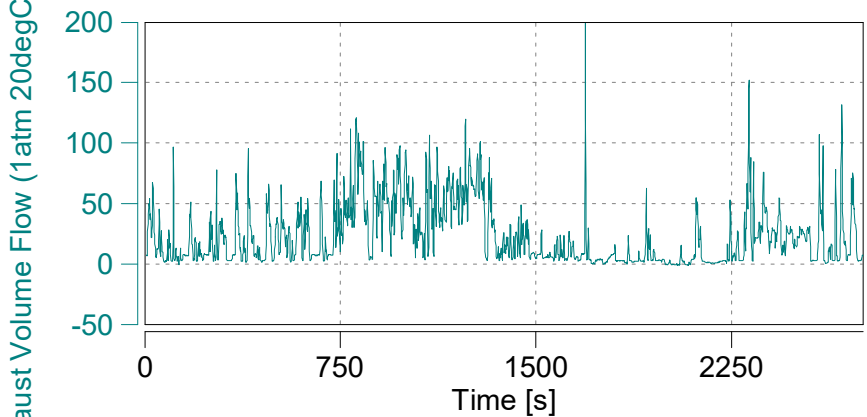
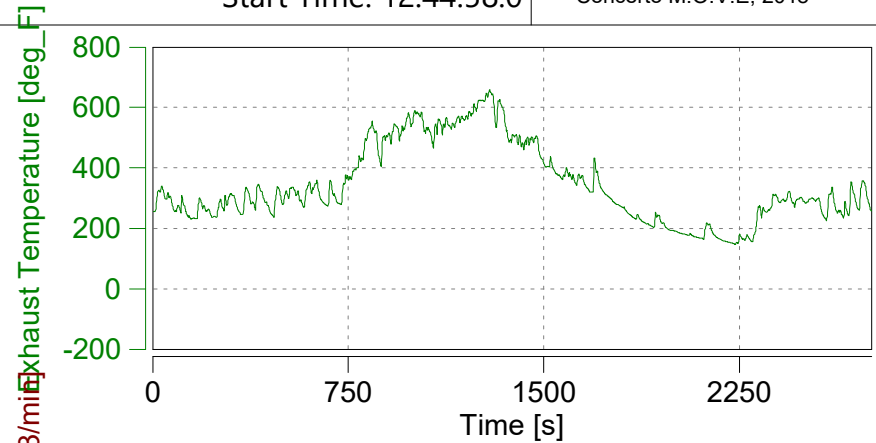
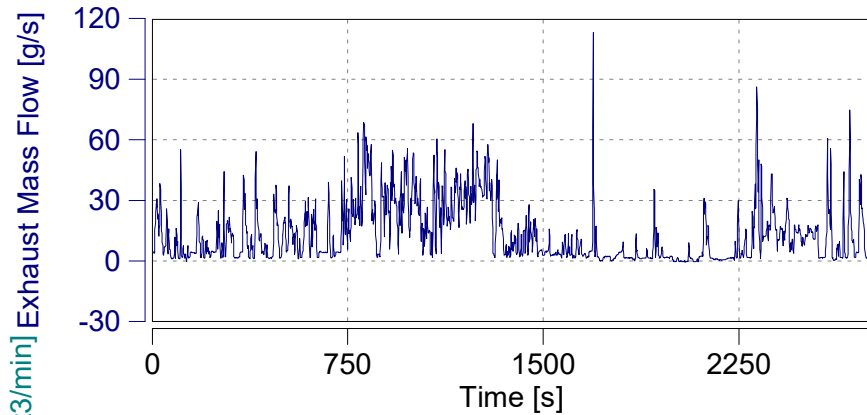
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



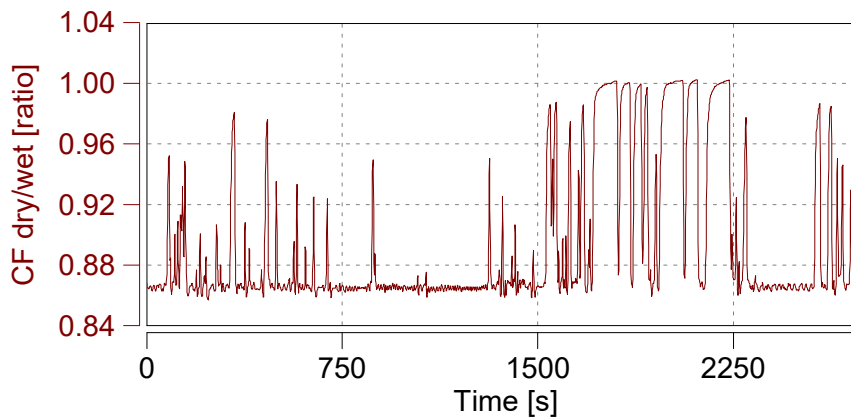
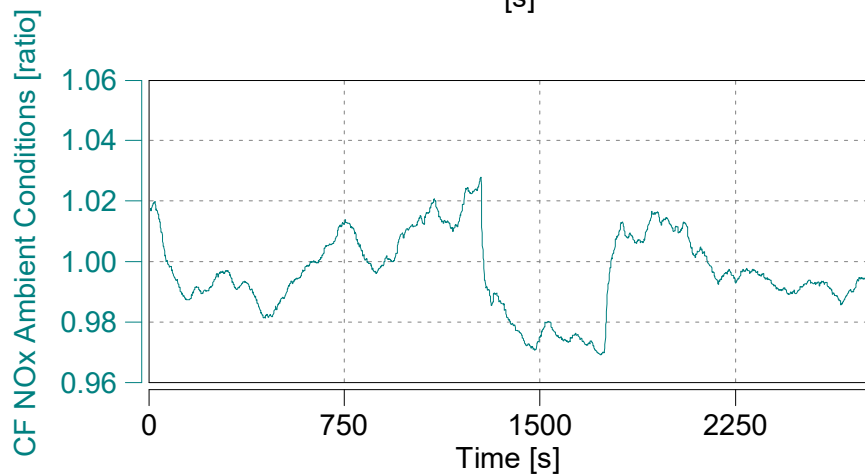
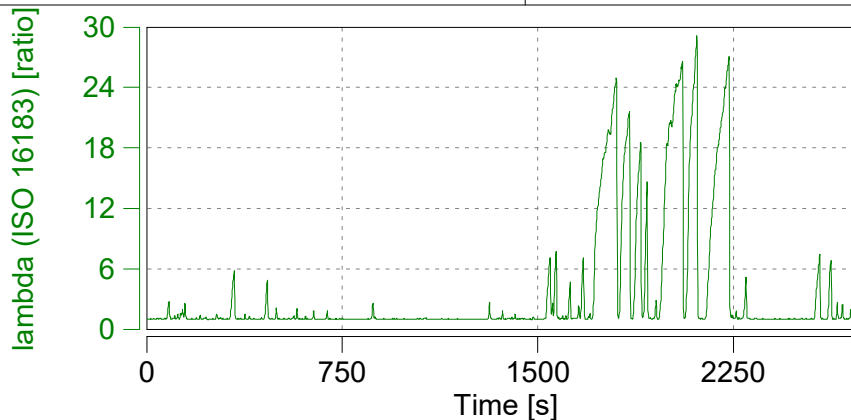
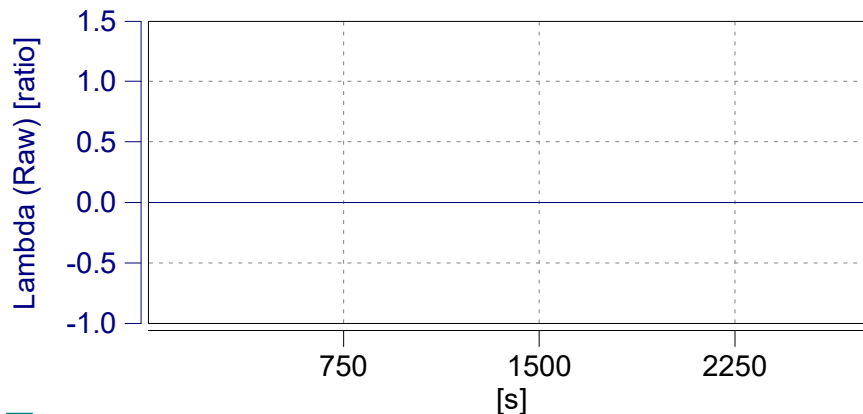
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



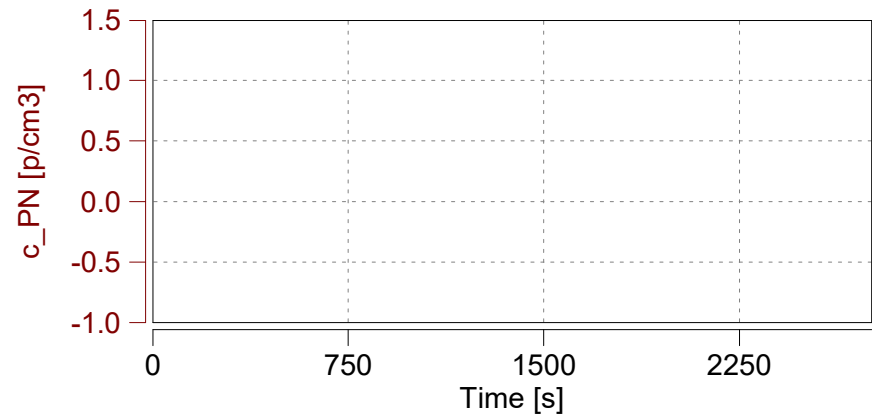
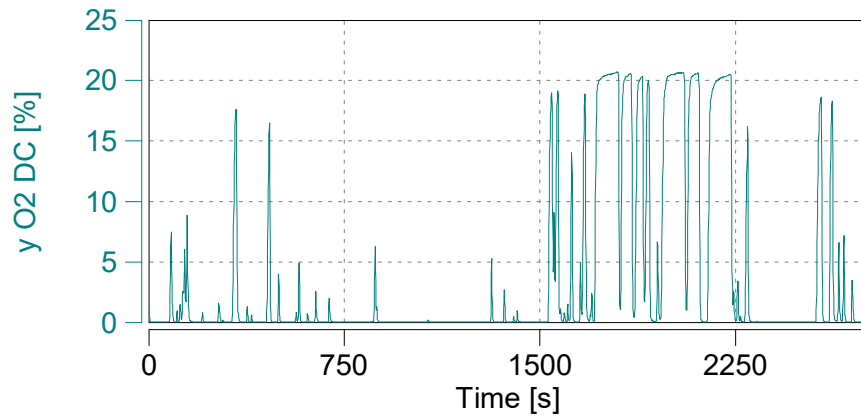
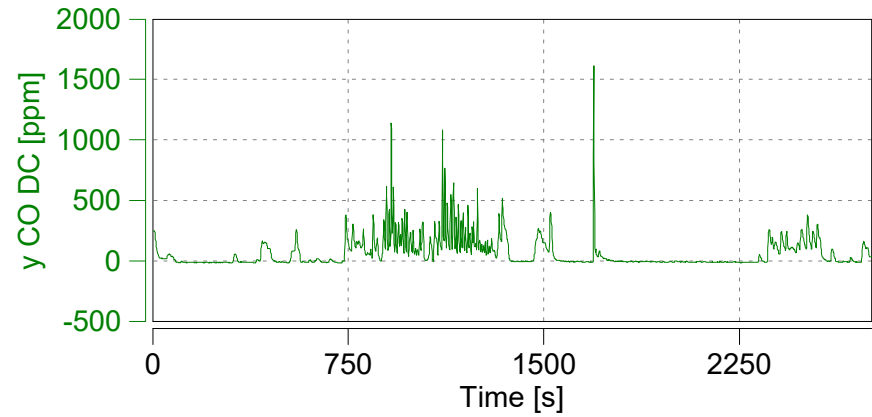
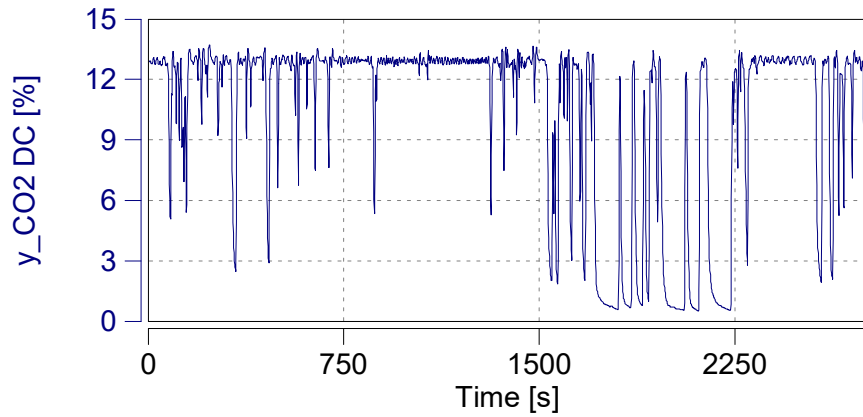
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain

Page: Corrected Emissions (2)

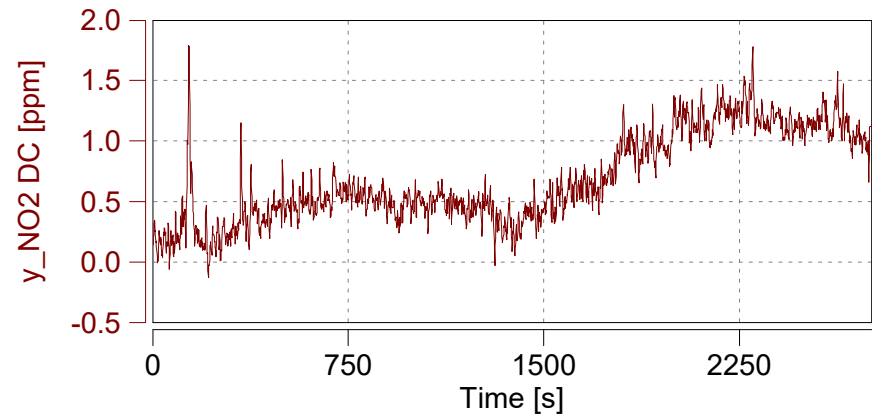
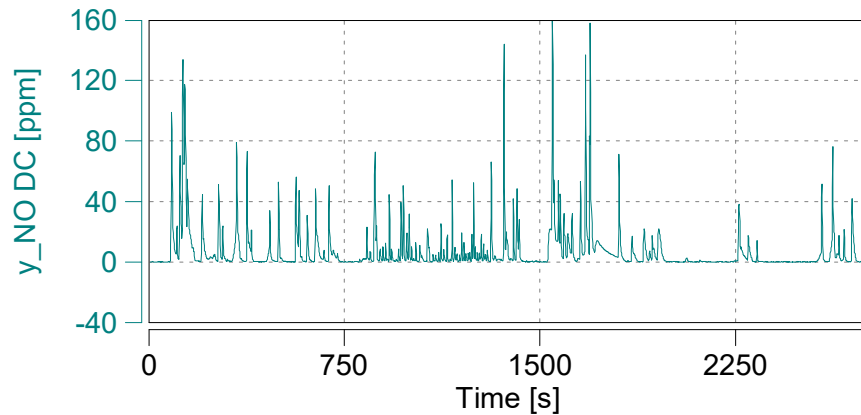
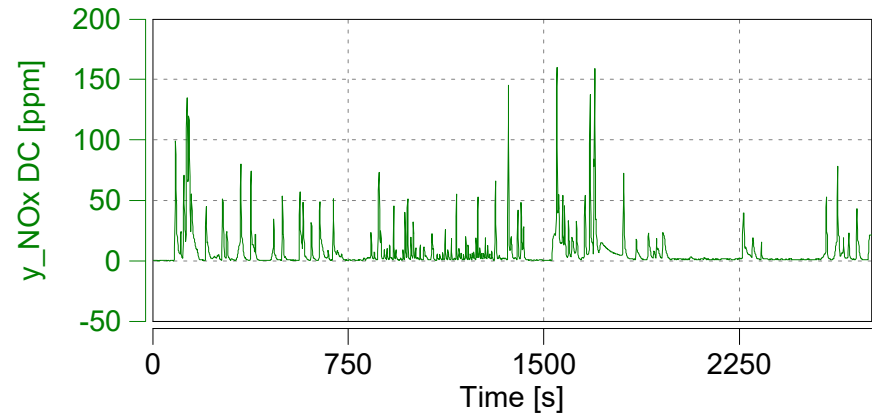
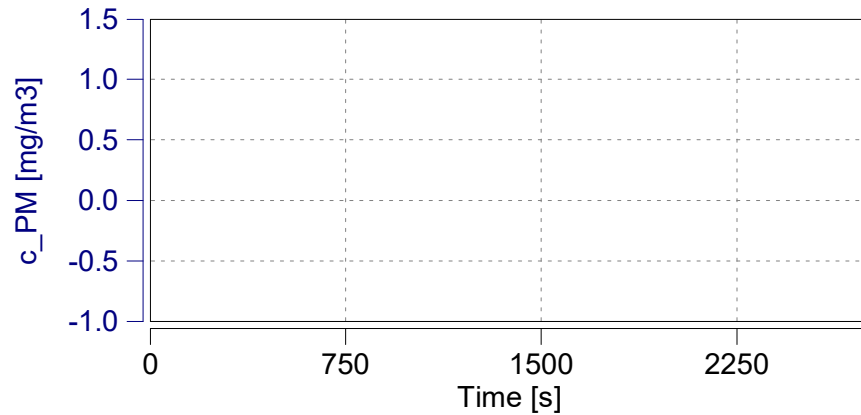
'Mountain'

Start Date: 07/29/2019

Start Time: 12:44:58.0

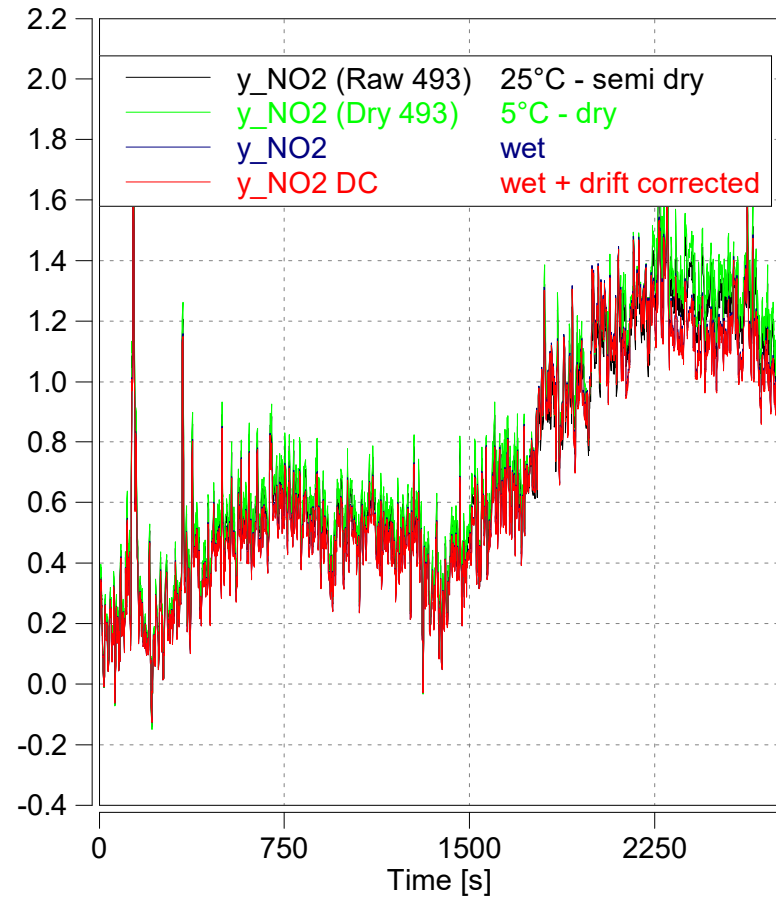
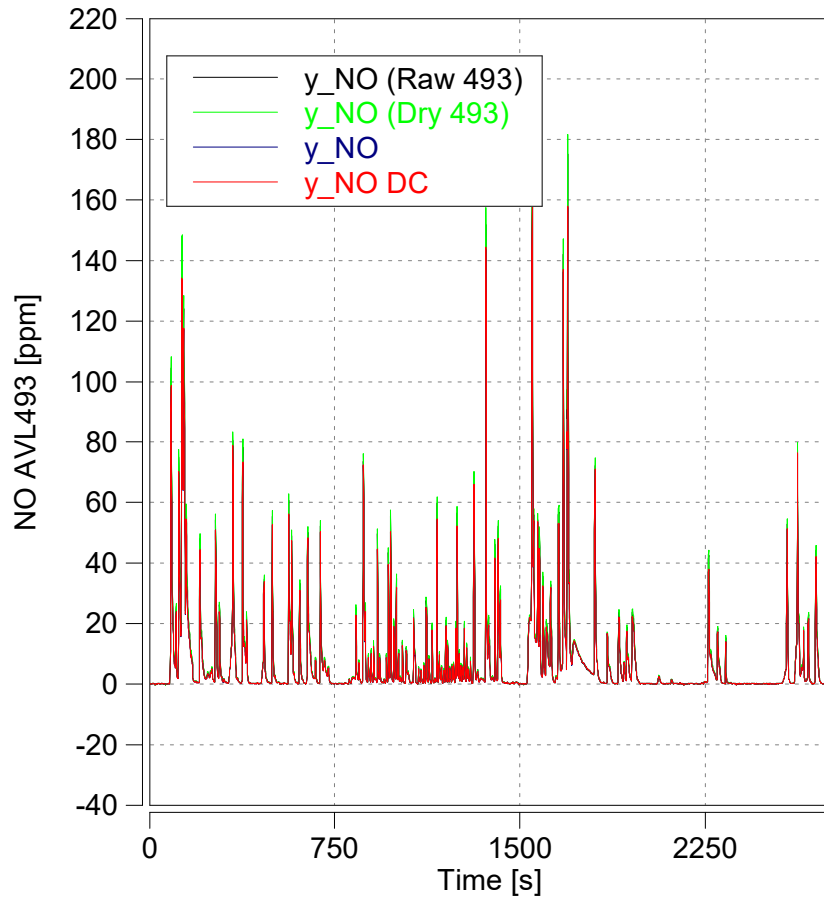


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

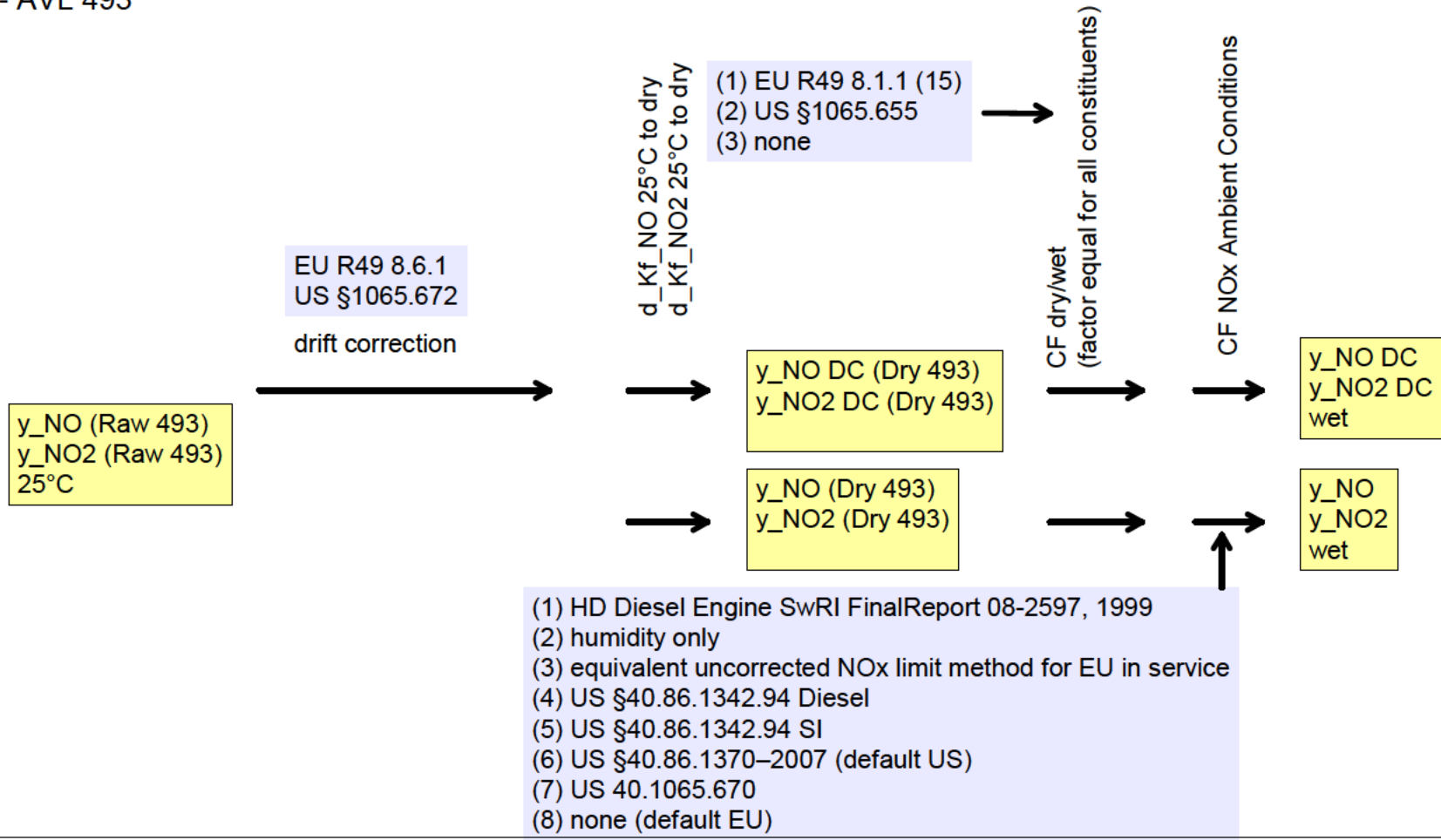


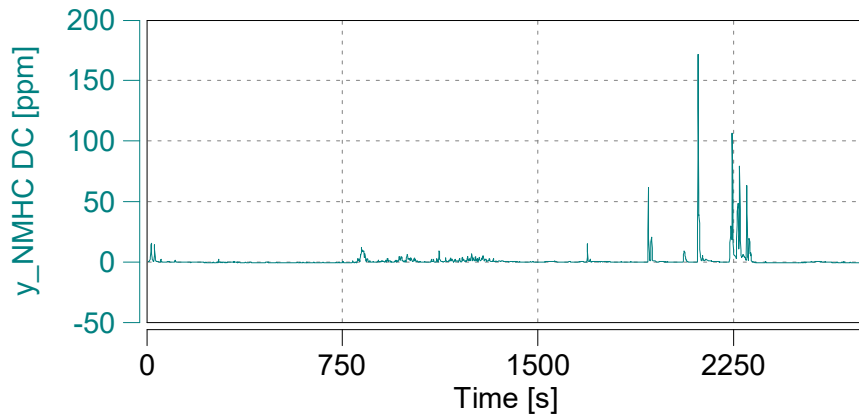
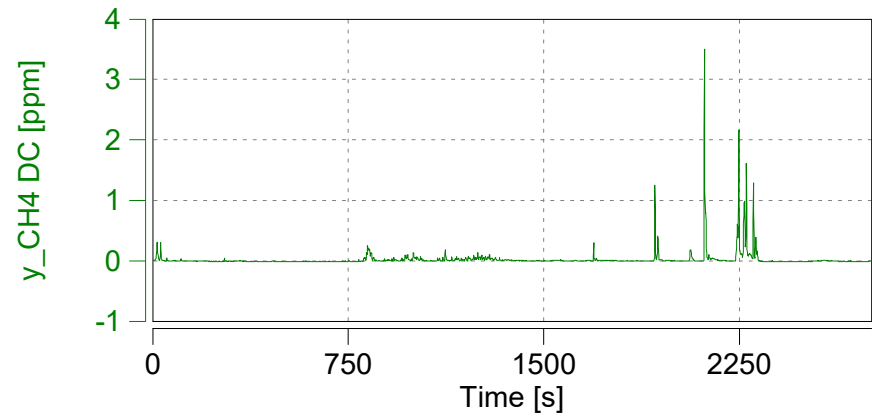
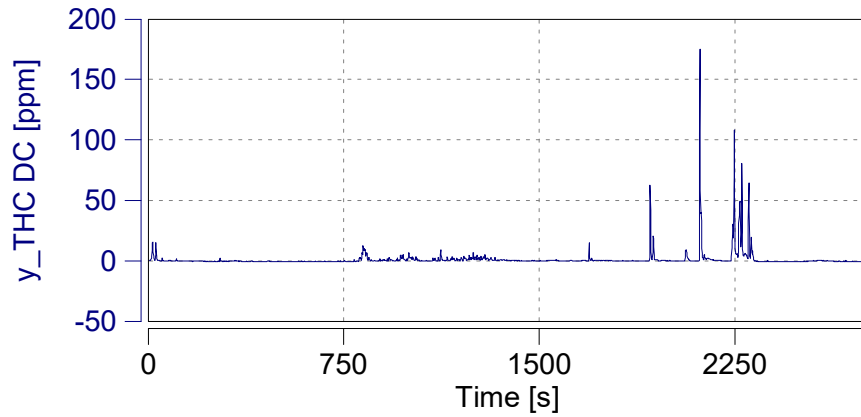
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Vehicle: Jetta / 1.4 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493





Concerto Version: 480 Build 316, Serial Number: 1120

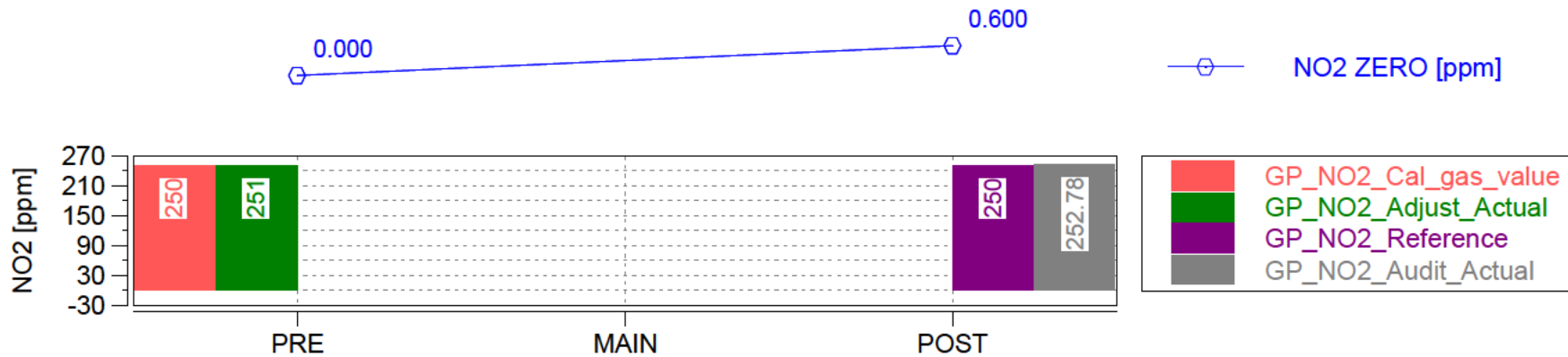
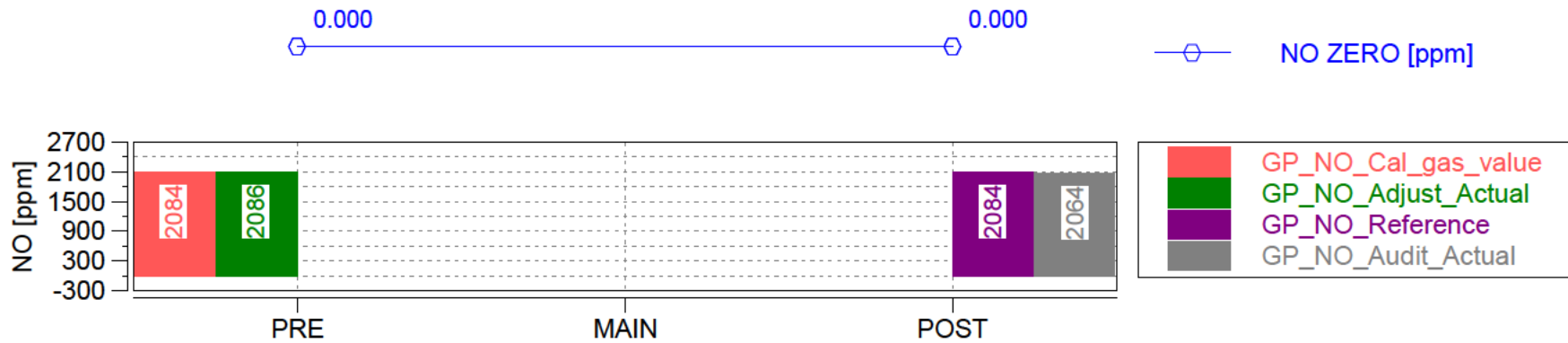
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Vehicle: Jetta / 1.4 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

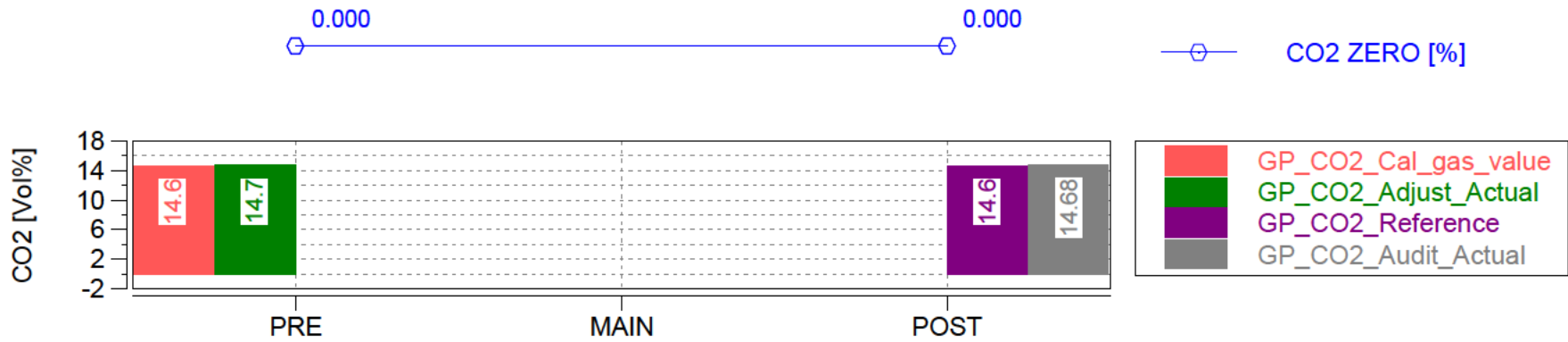
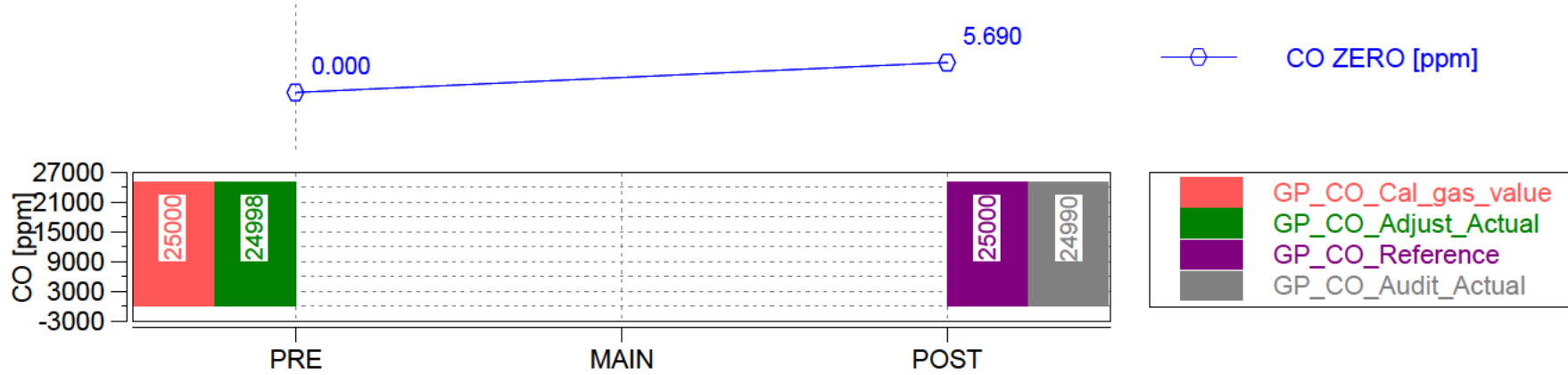
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Vehicle: Jetta / 1.4 L

Engine: /

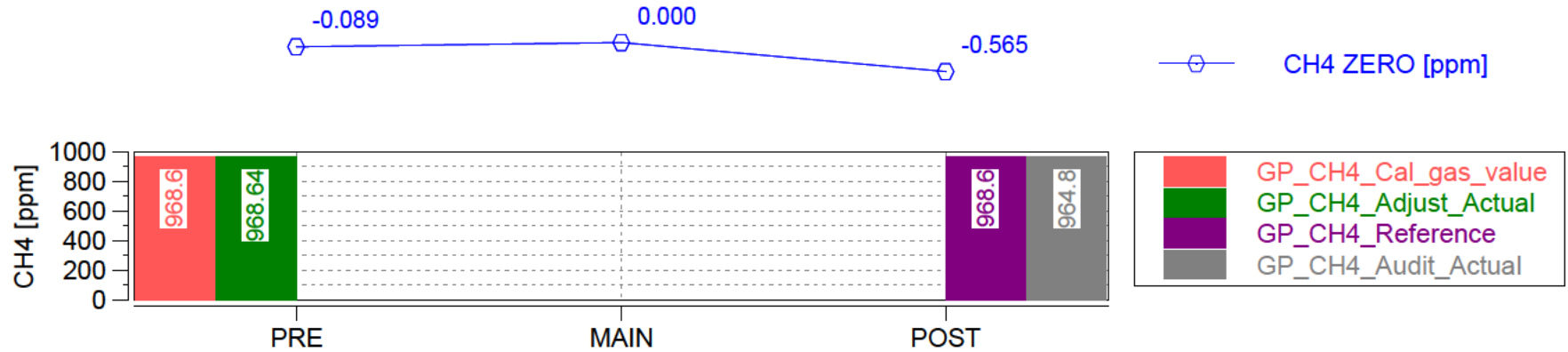
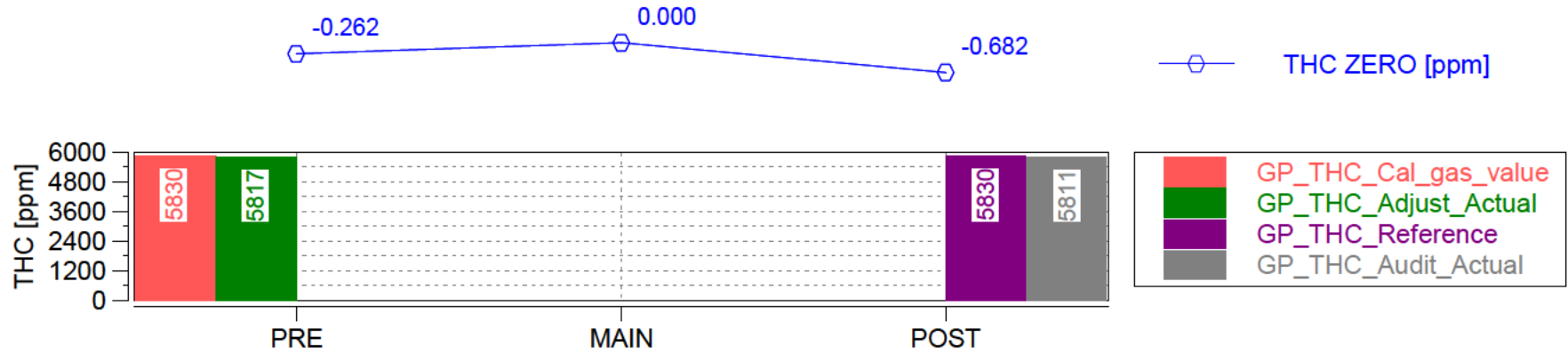
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City
Page: Trip Summary

'City'
Start Date: 08/01/2019
Start Time: 23:43:06.0



Trip Duration	2971.00	s	ave THC	5.04720	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2971.00	s	ave NMHC	4.94626	ppm	BS CO	n/a	g/hphr
Trip Distance	16.12	mi	ave CH4	0.10094	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	16.12	mi	ave CO	4.87123	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.72585	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	2.73592	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.92	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.89	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.03	gall	tot THC	0.11711	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.02	gall	tot NMHC	0.10833	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00260	g	DS CO2	546.33062	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	0.25715	g	DS CO	0.01595	g/mi
Trip Fuel Economy EU (ac)	15.60	mpg_US	tot CO2	8808.50173	g	DS THC	0.00726	g/mi
Trip Fuel Economy US (ac)	15.77	mpg_US	tot NO (d)	0.17100	g	DS NMHC	0.00672	g/mi
Trip Av. Eng. Speed	1295.39	rpm	tot NO2	0.01894	g	DS CH4	0.00016	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.18994	g	DS NO (d)	0.01061	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00117	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01178	g/mi
Trip Exhaust Mass	45.66	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	69.76	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	69.12	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	19.53795	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	19.85863	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0



Concerto M.O.V.E., 2018

Trip Duration	2971.00	s	ave THC DC	5.04923	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2971.00	s	ave NMHC DC	4.94824	ppm	BS CO DC	n/a	g/hphr
Trip Distance	16.12	mi	ave CH4 DC	0.10098	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	16.12	mi	ave CO DC	4.70528	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.72145	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	2.76151	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.92	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.89	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.03	gall	tot THC DC	0.11709	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.02	gall	tot NMHC DC	0.10831	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00260	g	DS CO2 DC	546.14168	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	0.24734	g	DS CO DC	0.01534	g/mi
Trip Fuel Economy EU (ac)	15.60	mpg_US	tot CO2 DC	8805.45545	g	DS THC DC	0.00726	g/mi
Trip Fuel Economy US (ac)	15.77	mpg_US	tot NO DC (d)	0.17133	g	DS NMHC DC	0.00672	g/mi
Trip Av. Eng. Speed	1295.39	rpm	tot NO2 DC	0.02090	g	DS CH4 DC	0.00016	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.19222	g	DS NO DC (d)	0.01063	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00130	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.01192	g/mi
Trip Exhaust Mass	45.66	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	69.76	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	69.12	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	19.53795	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	19.85863	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

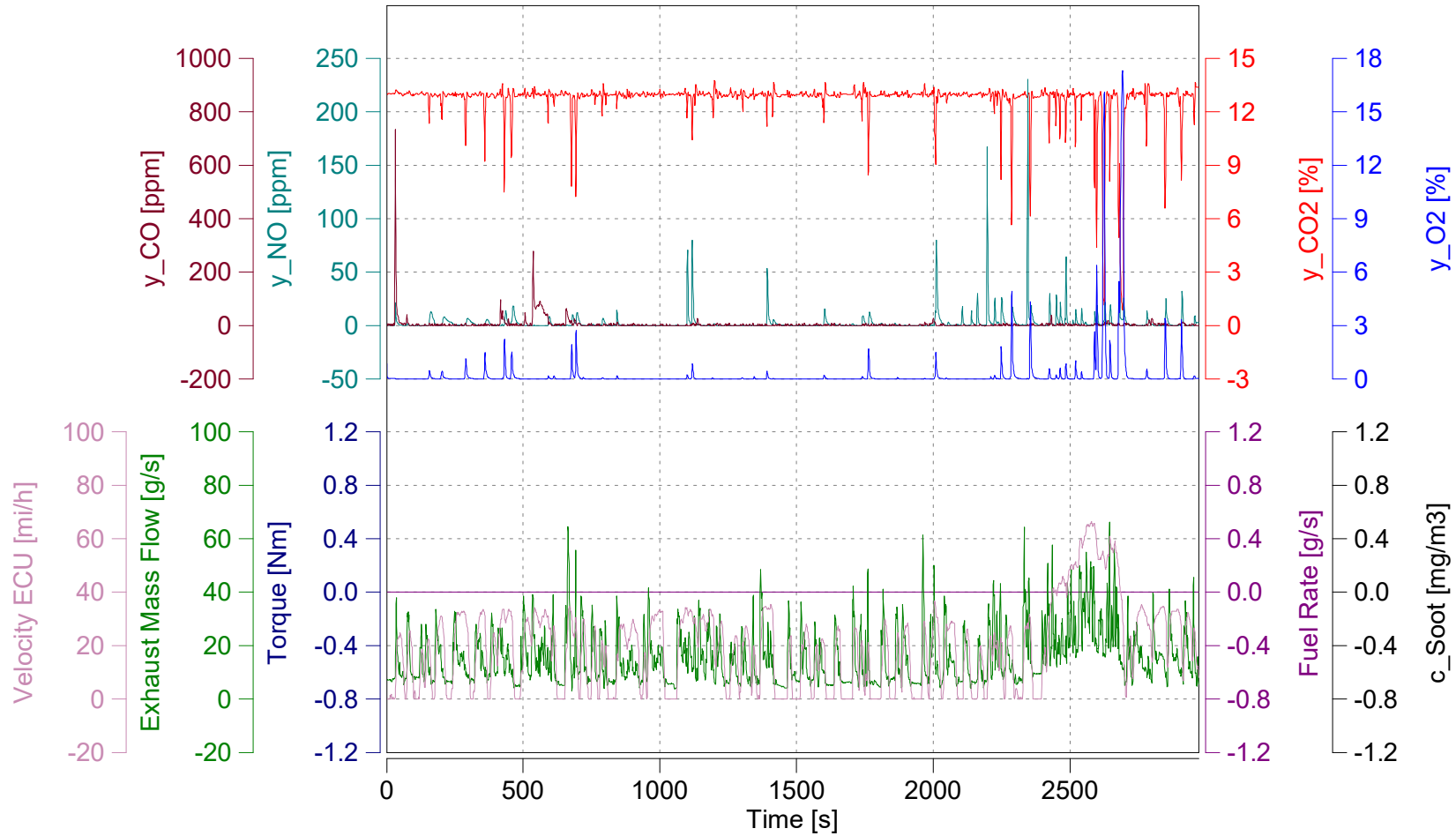
Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_Engine: /

Vehicle: R8 / 5.2 L

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

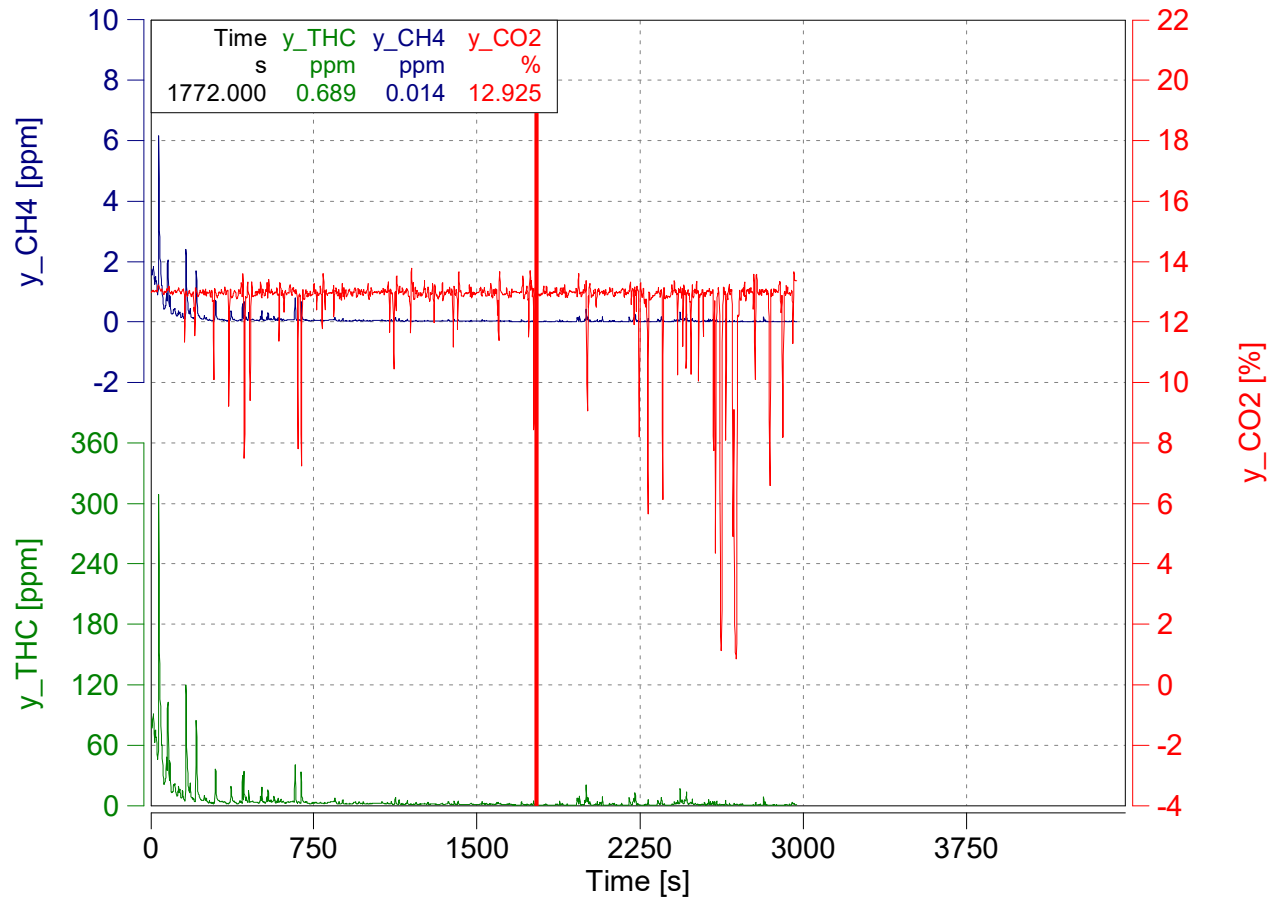
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Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Case: City

Page: Ambient Conditions

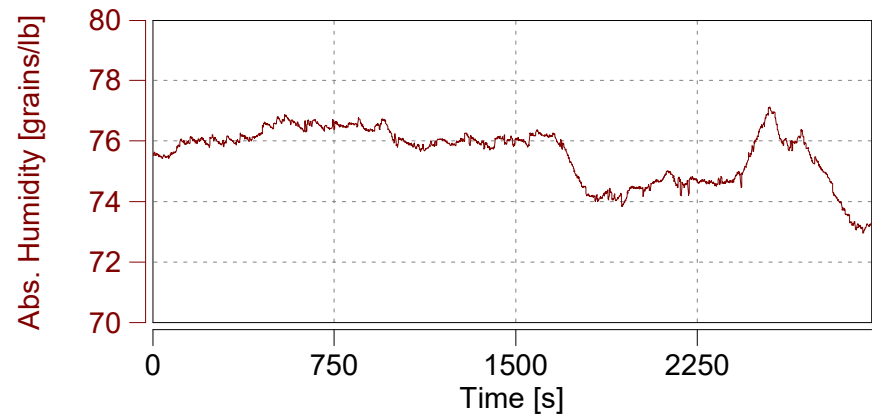
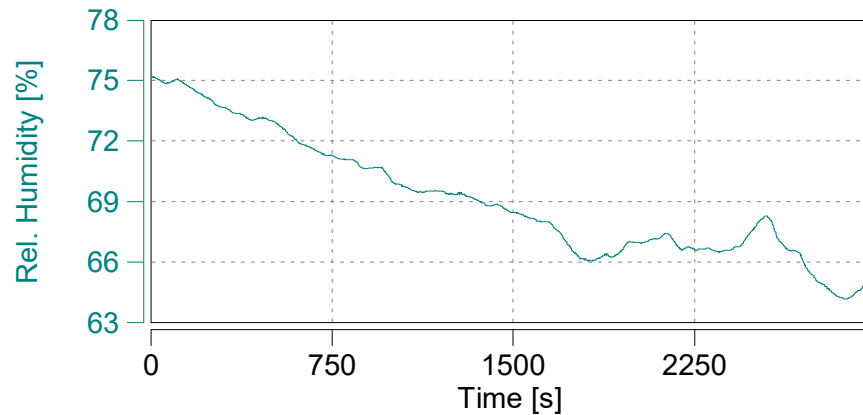
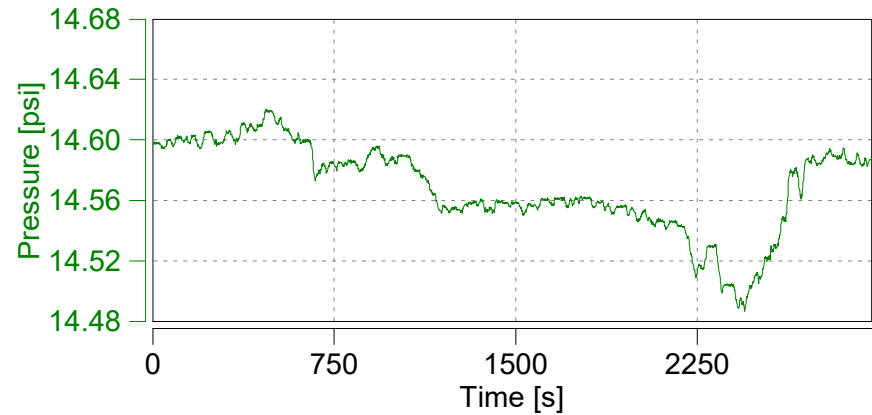
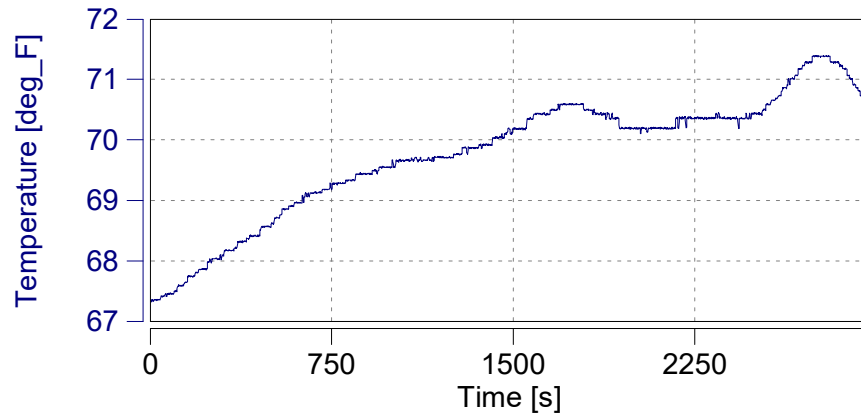
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

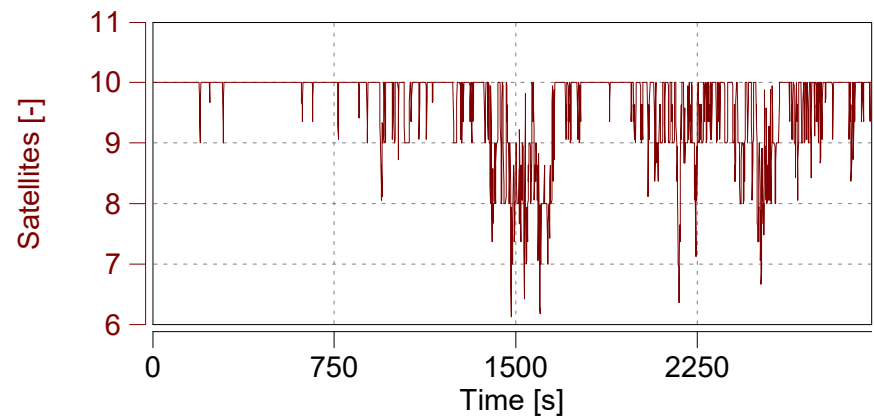
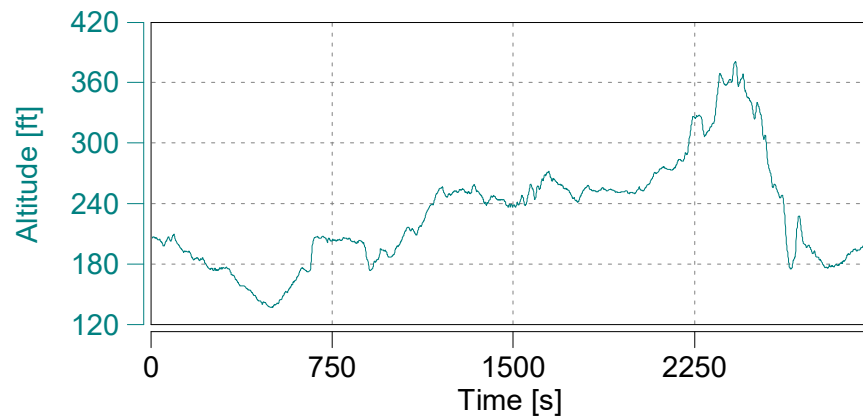
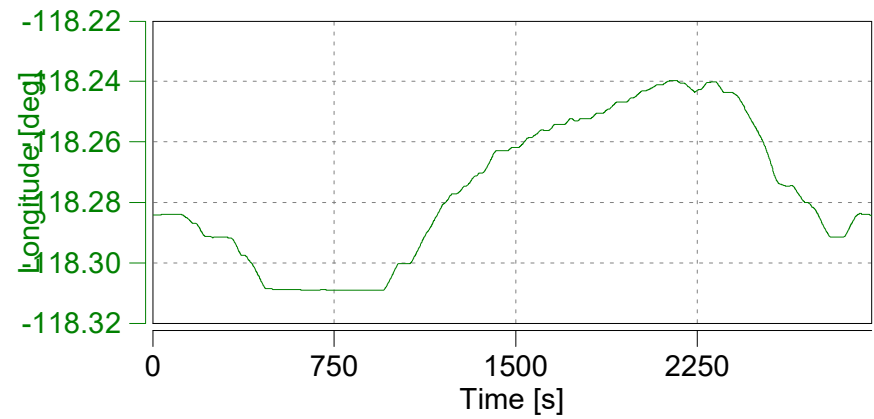
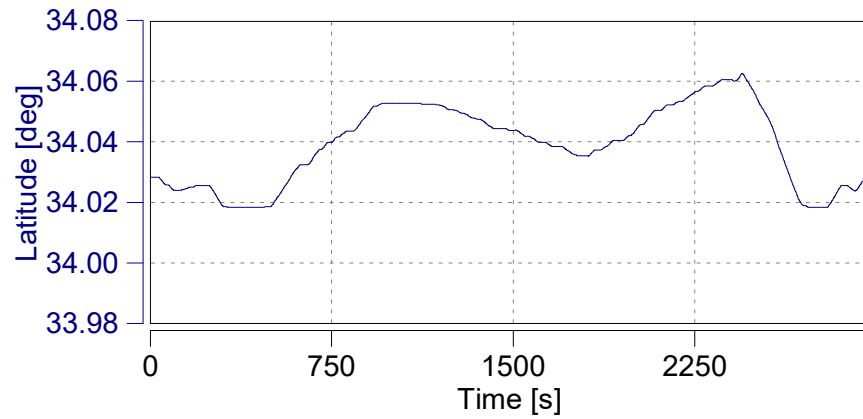
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

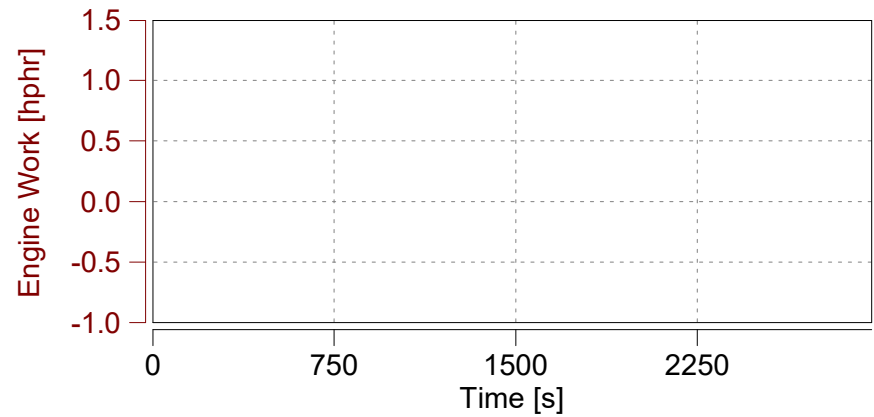
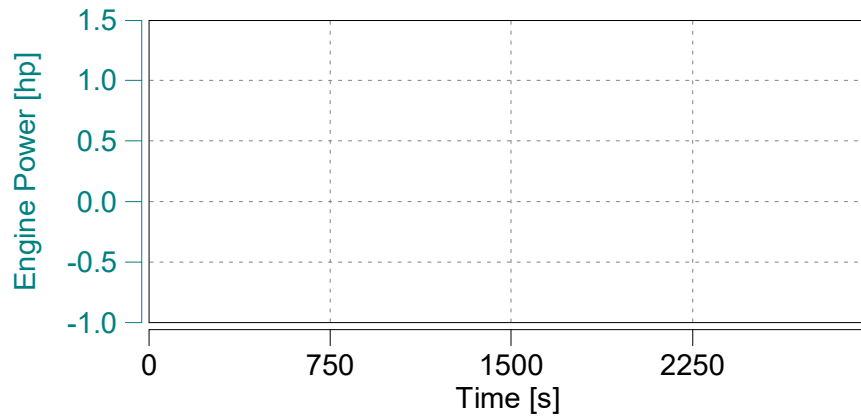
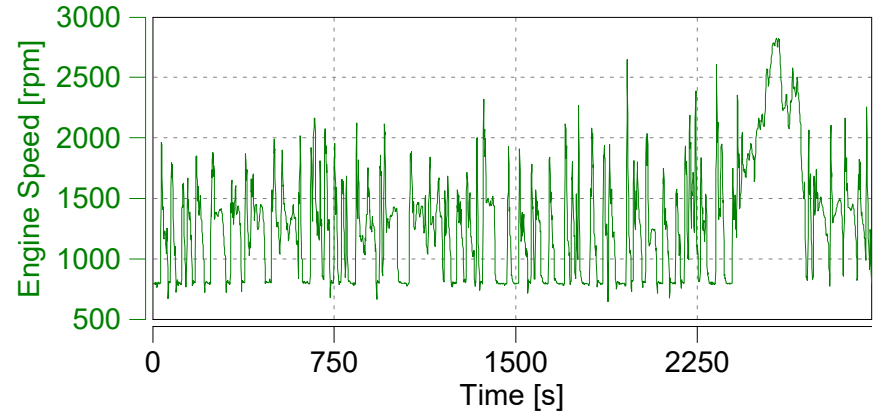
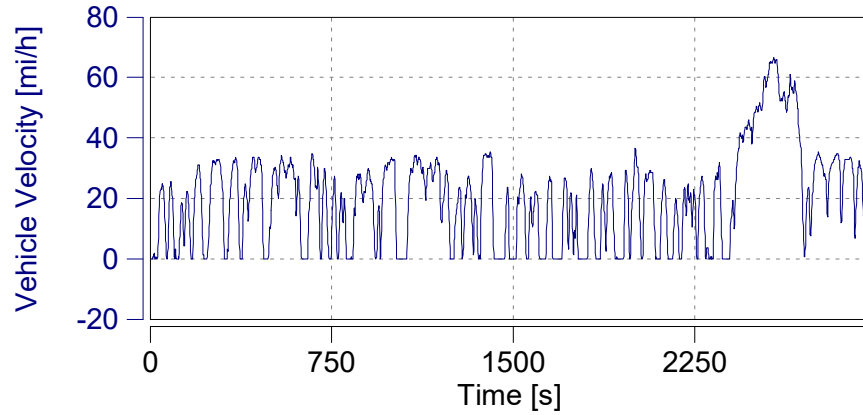
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



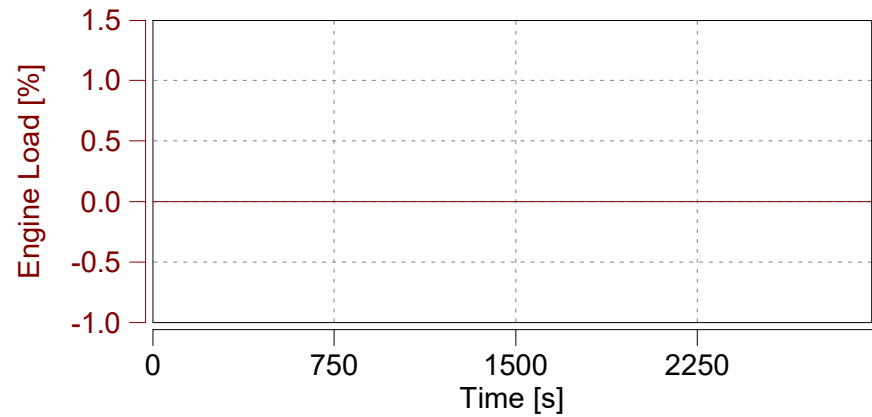
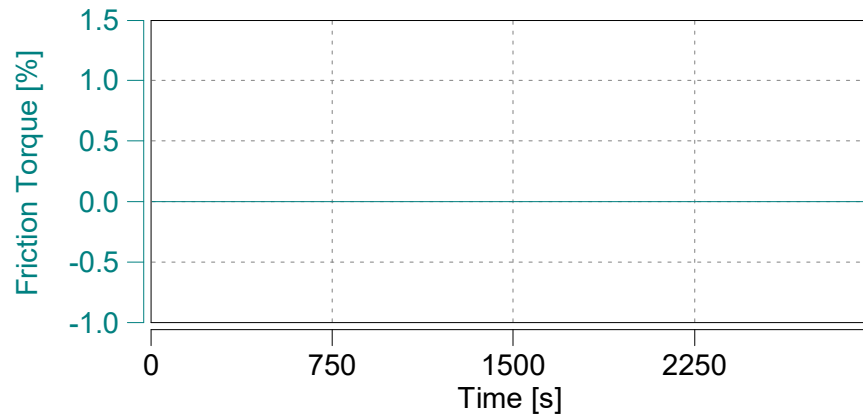
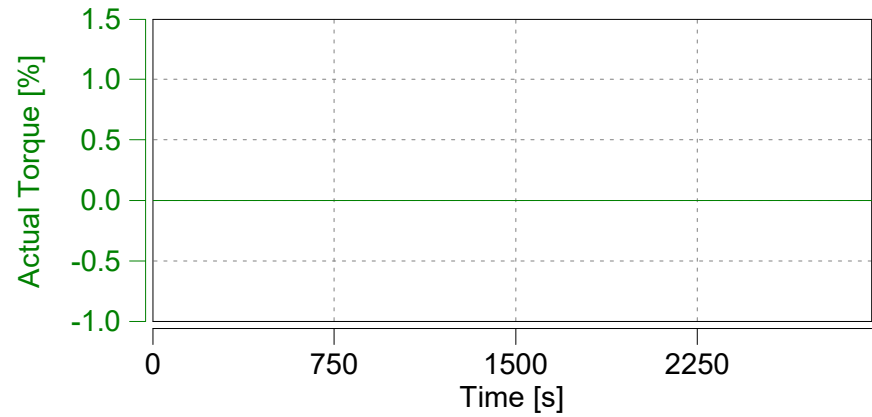
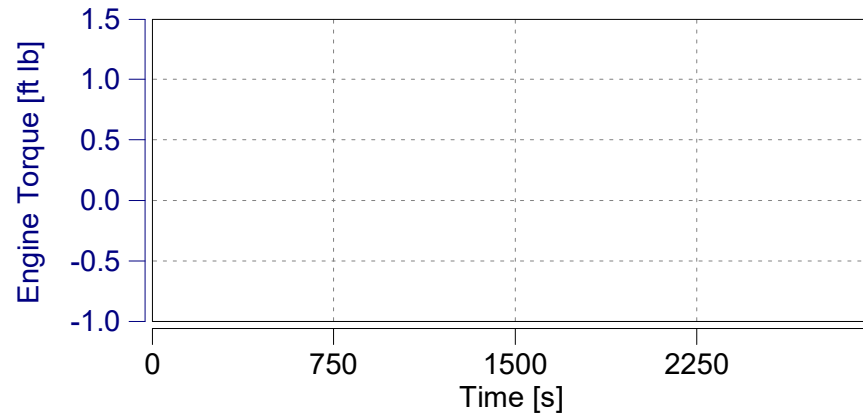
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Case: City

Page: Engine (3)

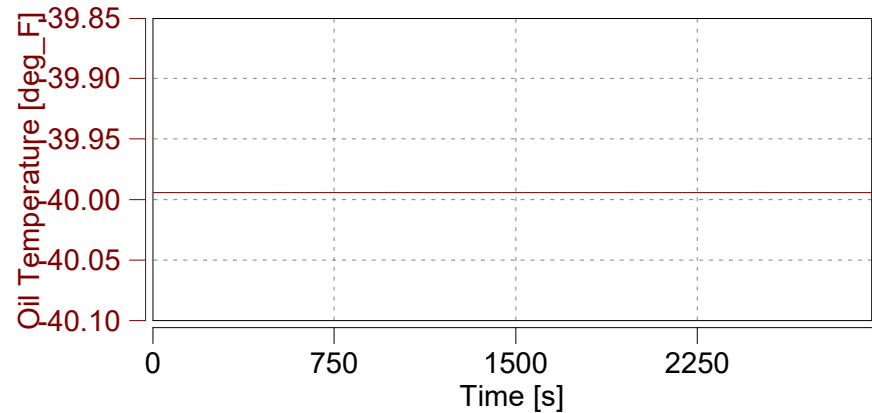
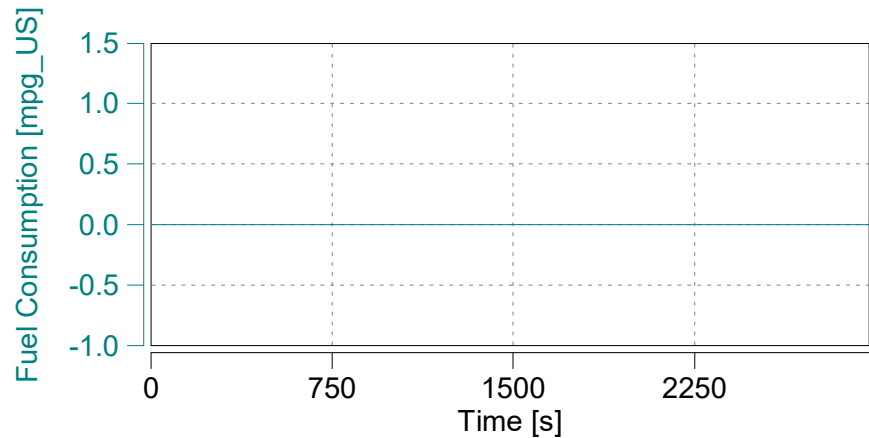
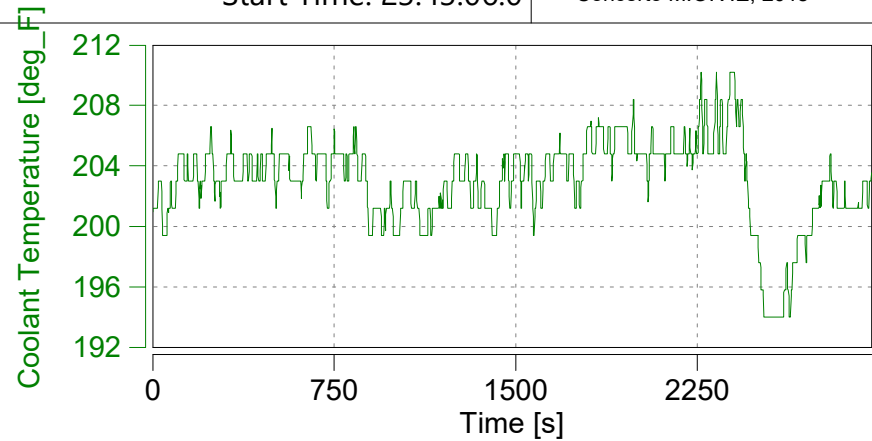
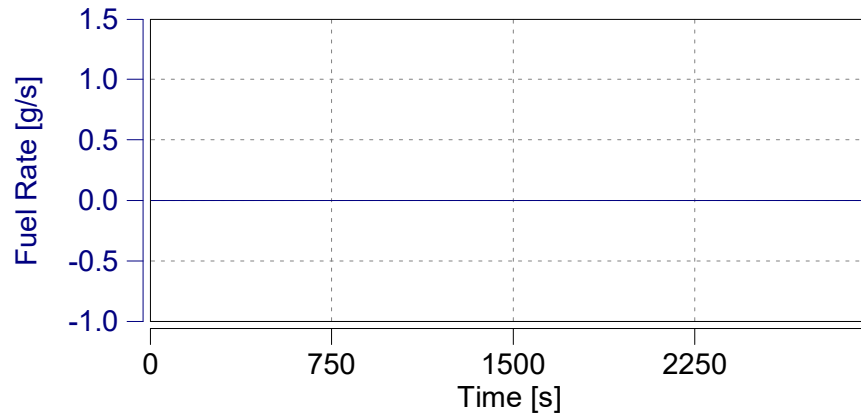
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

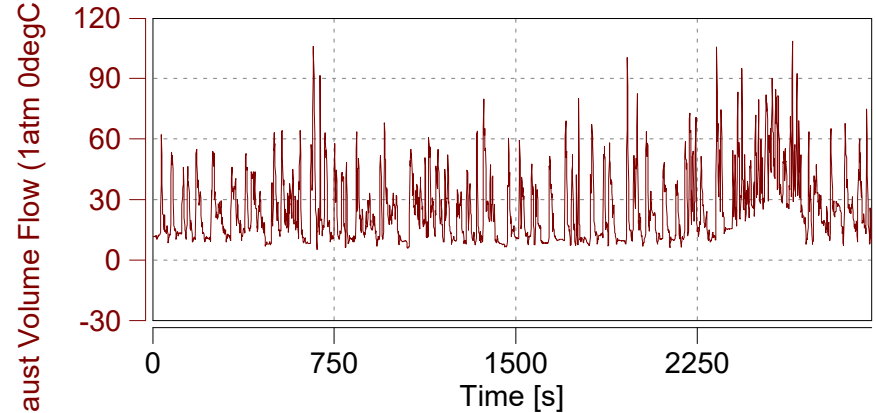
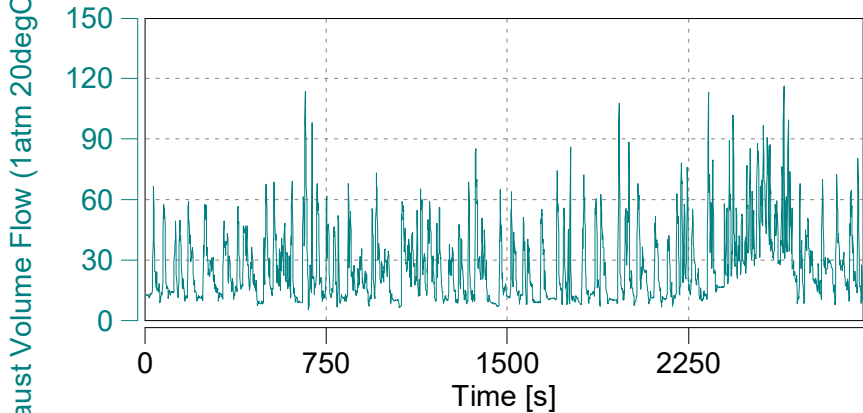
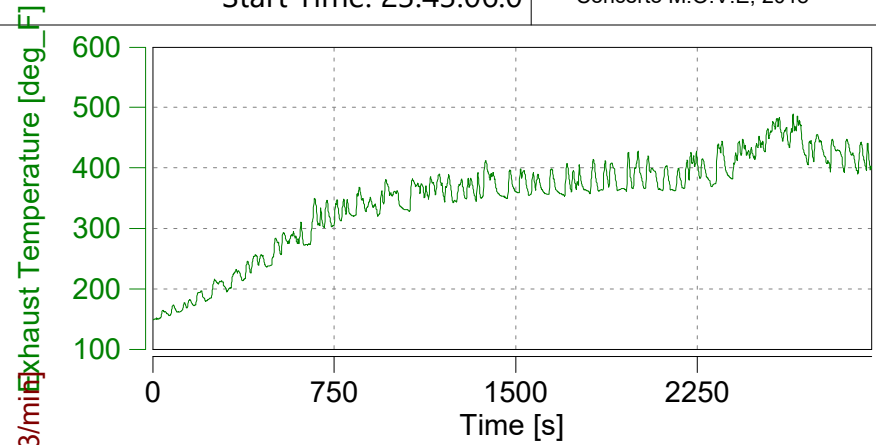
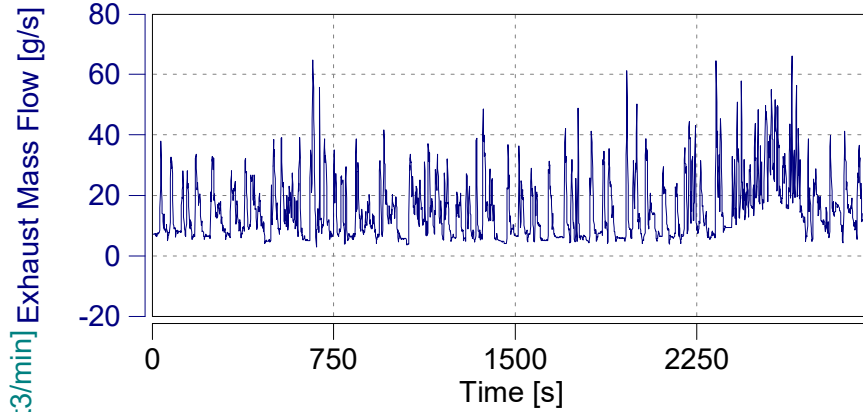
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (2)

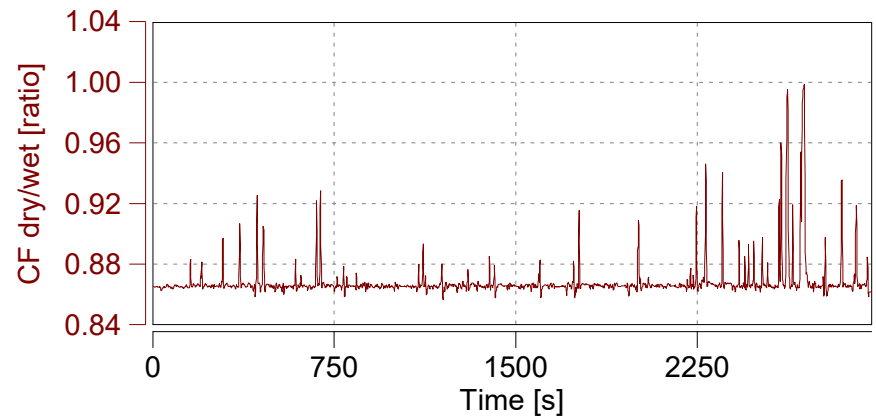
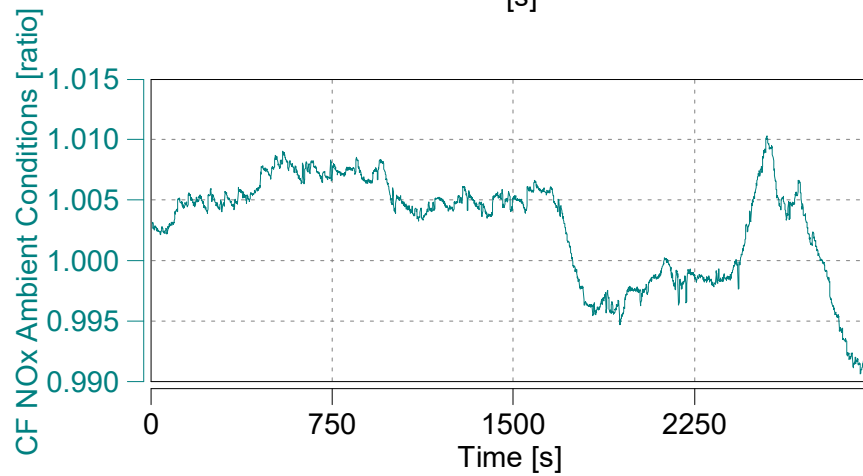
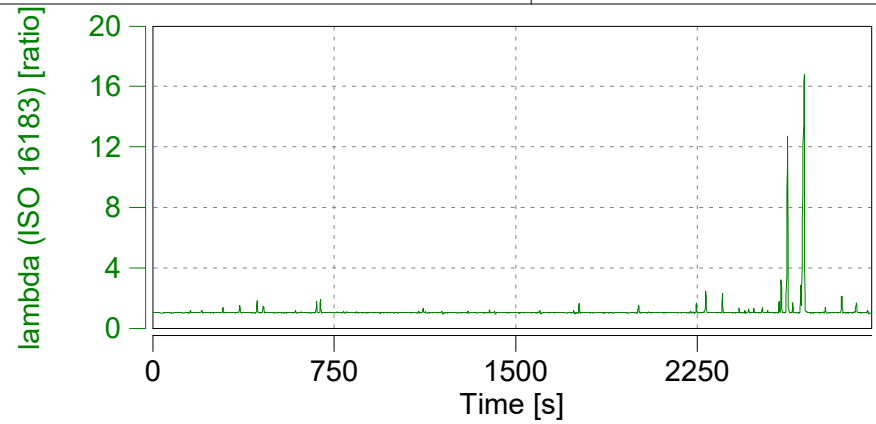
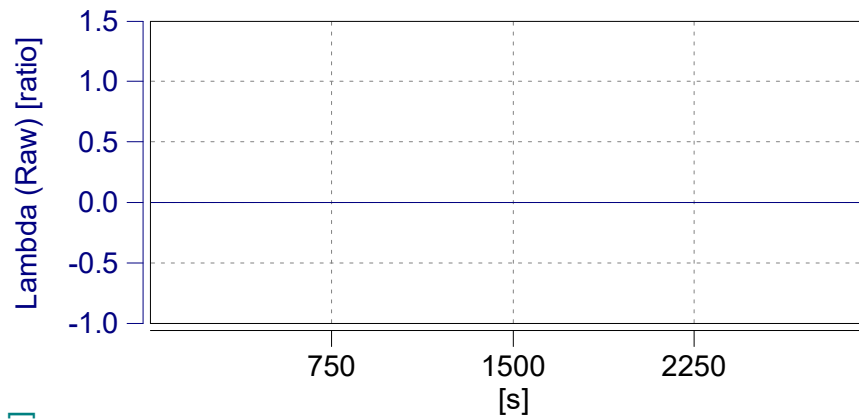
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

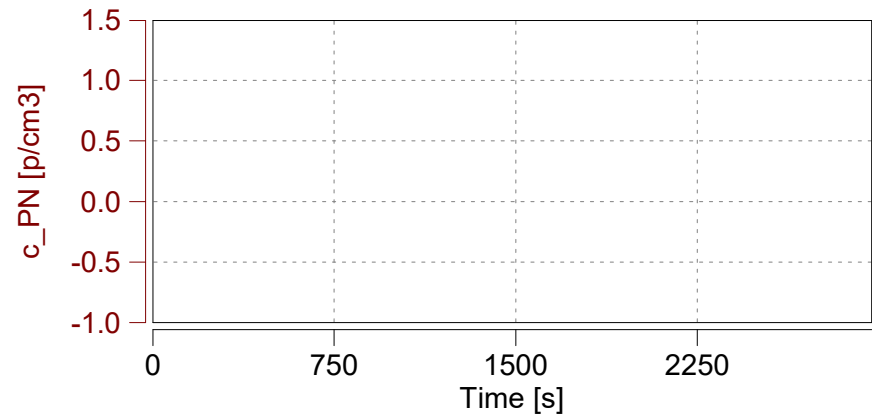
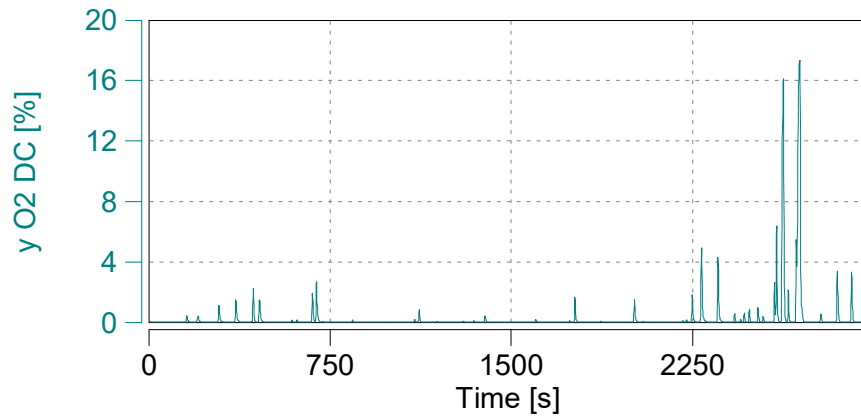
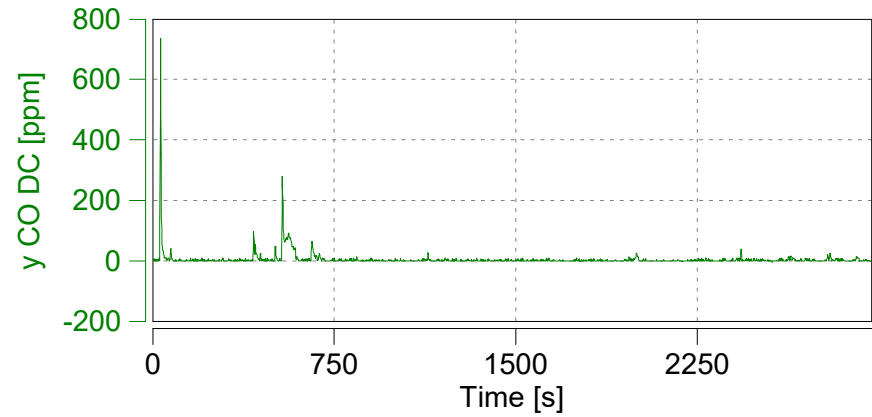
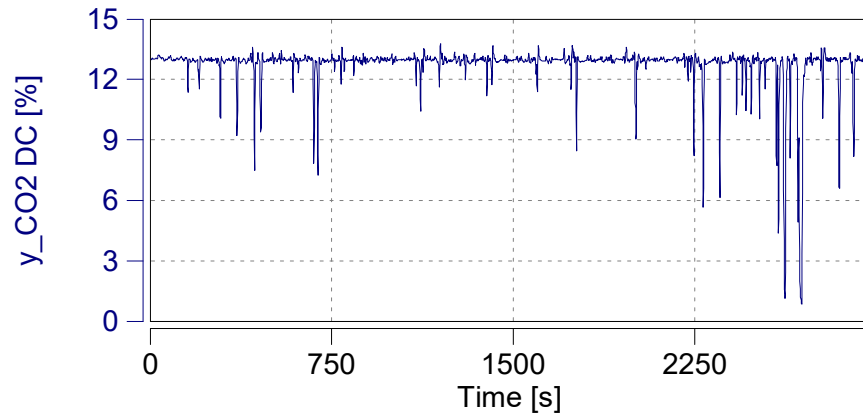
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

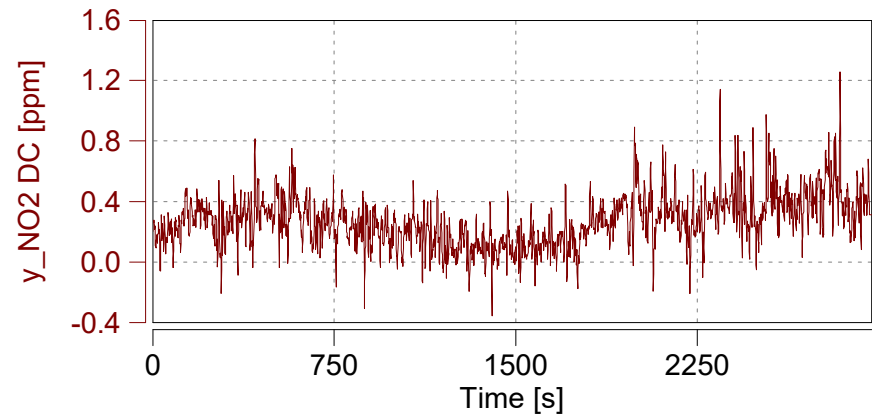
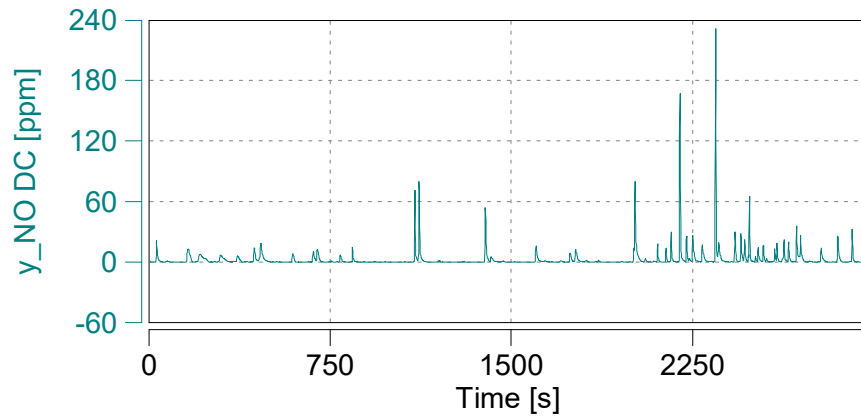
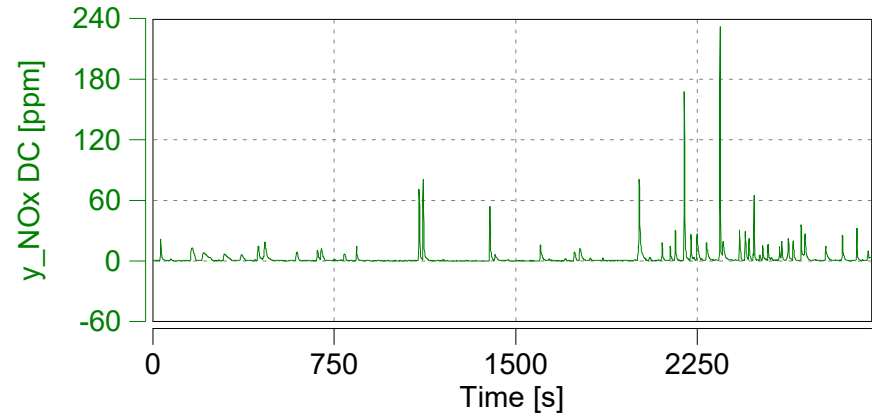
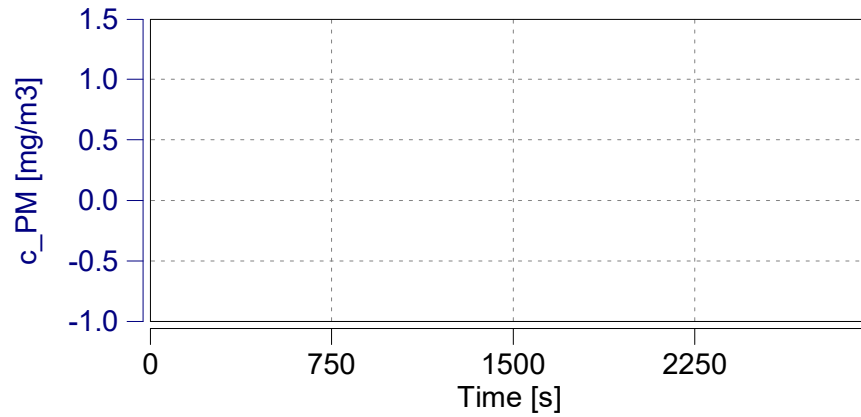
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0

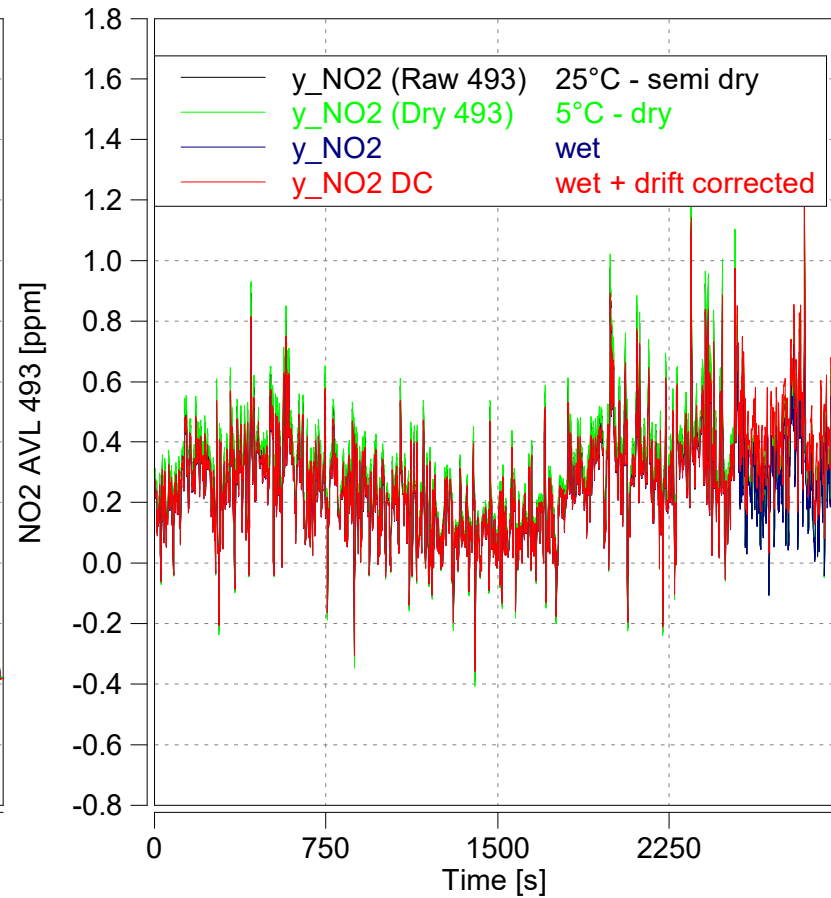
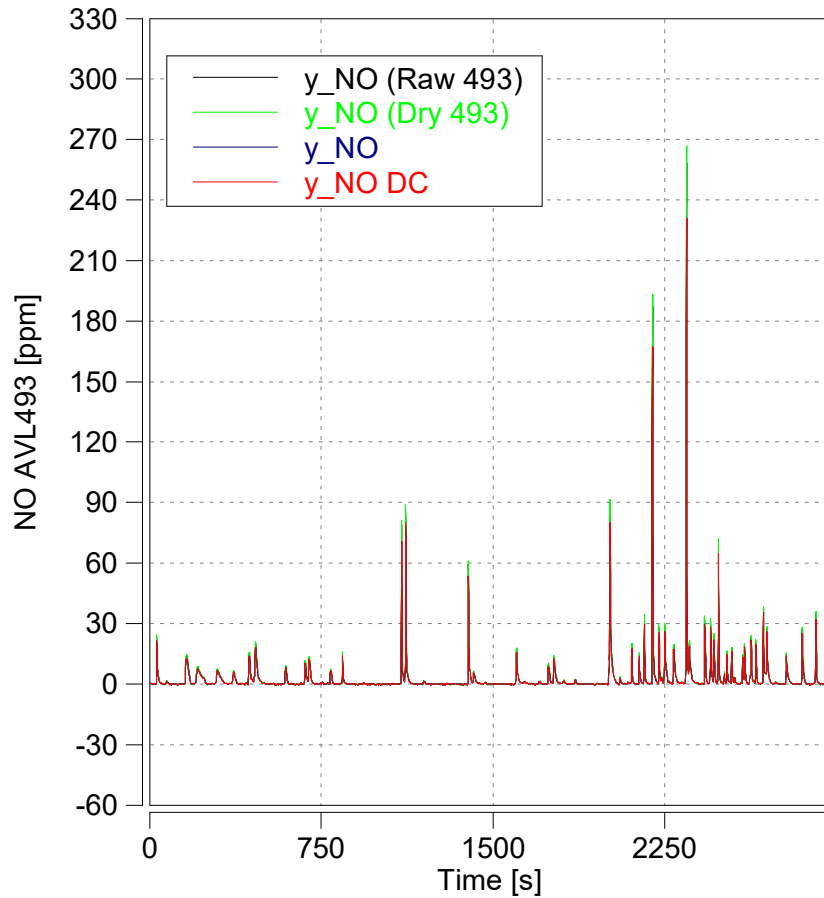


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

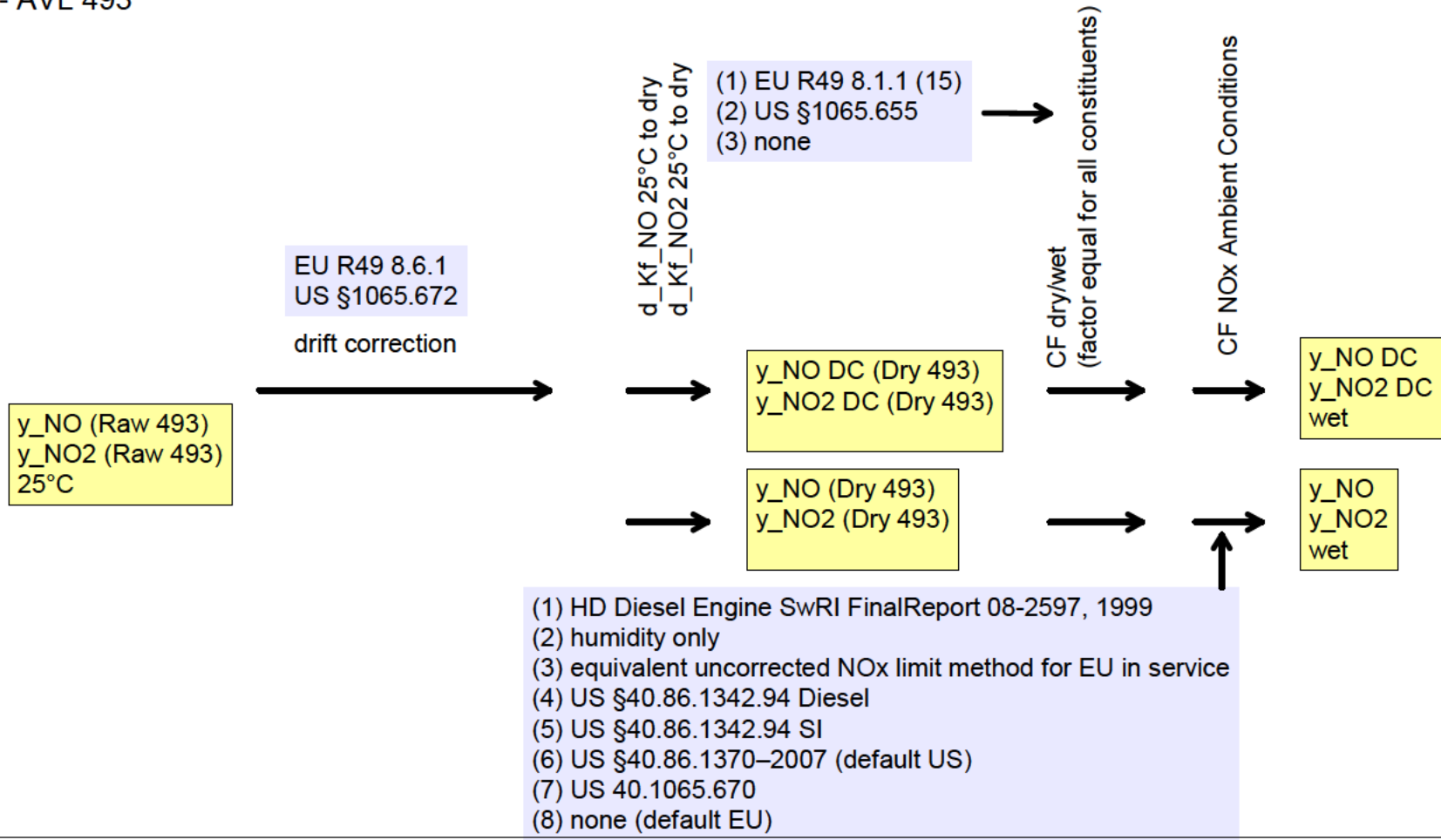
Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

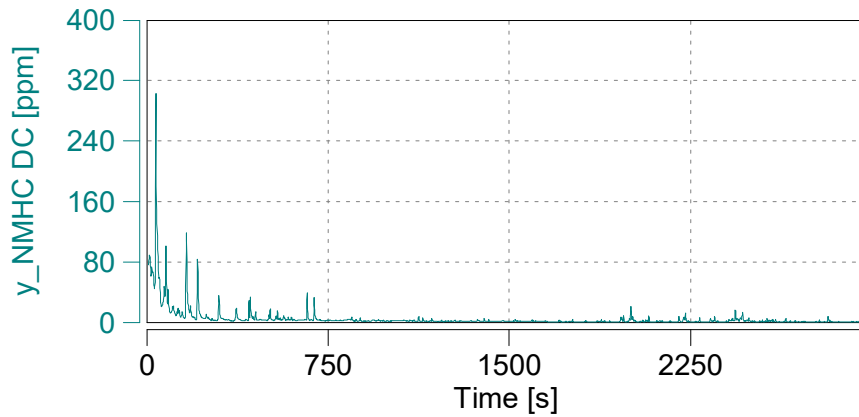
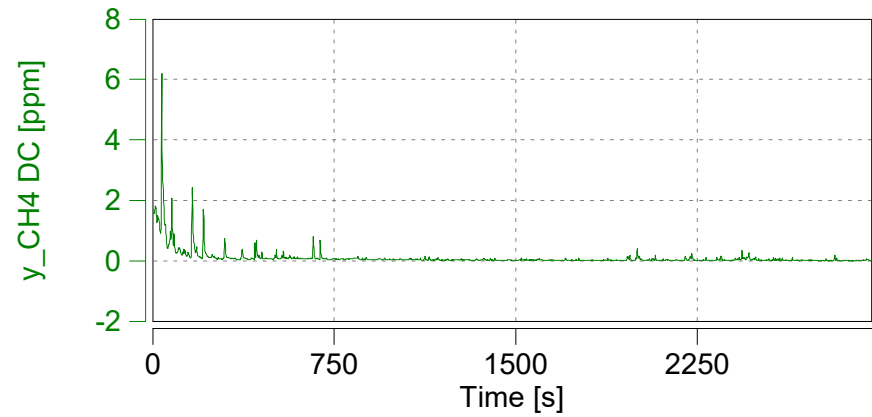
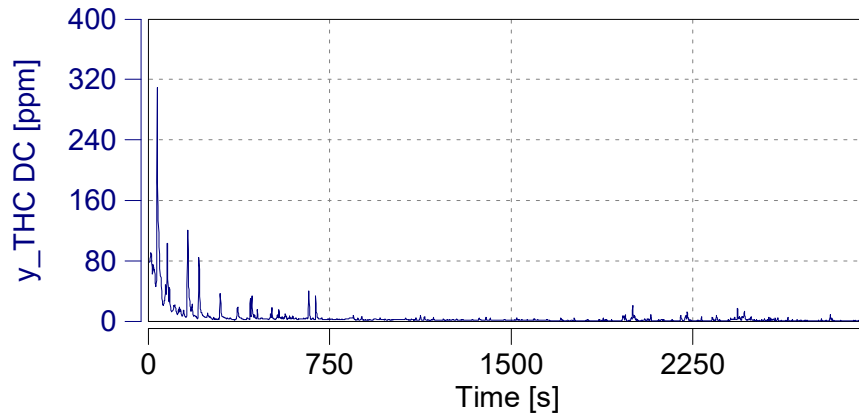
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0

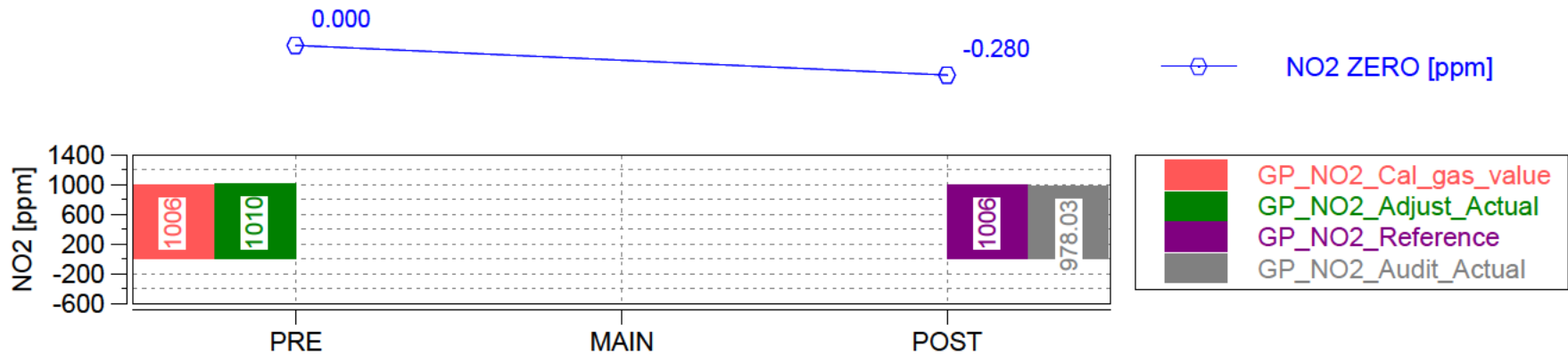
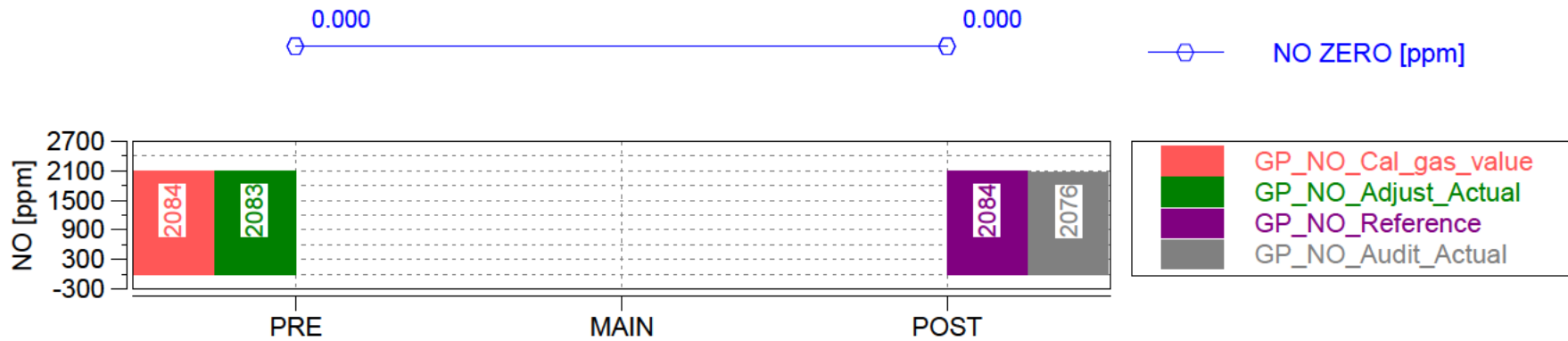


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

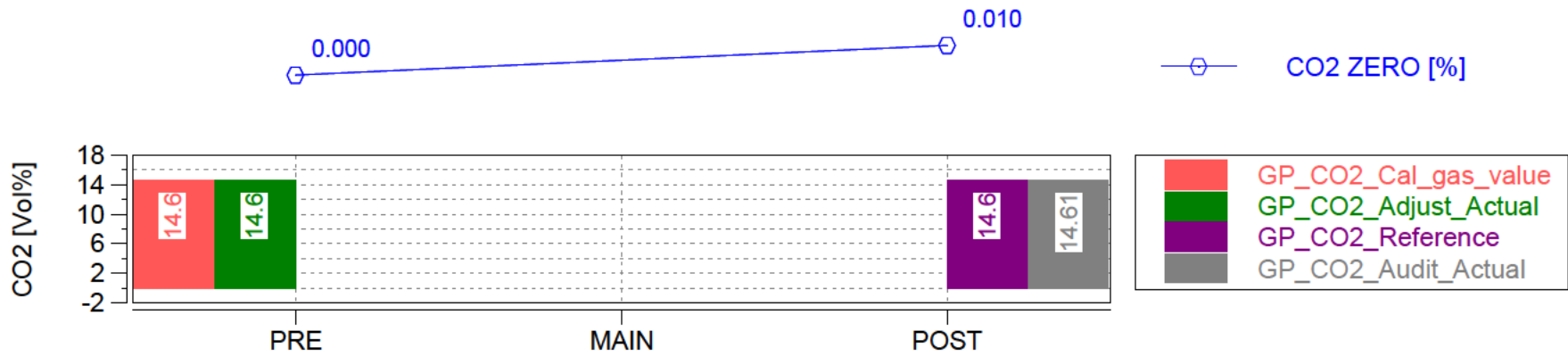
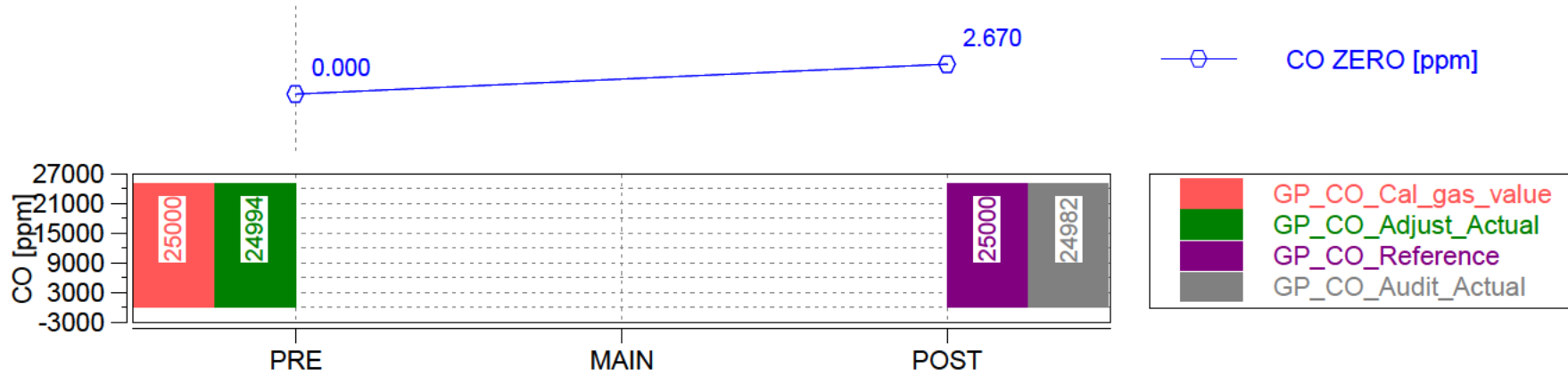
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

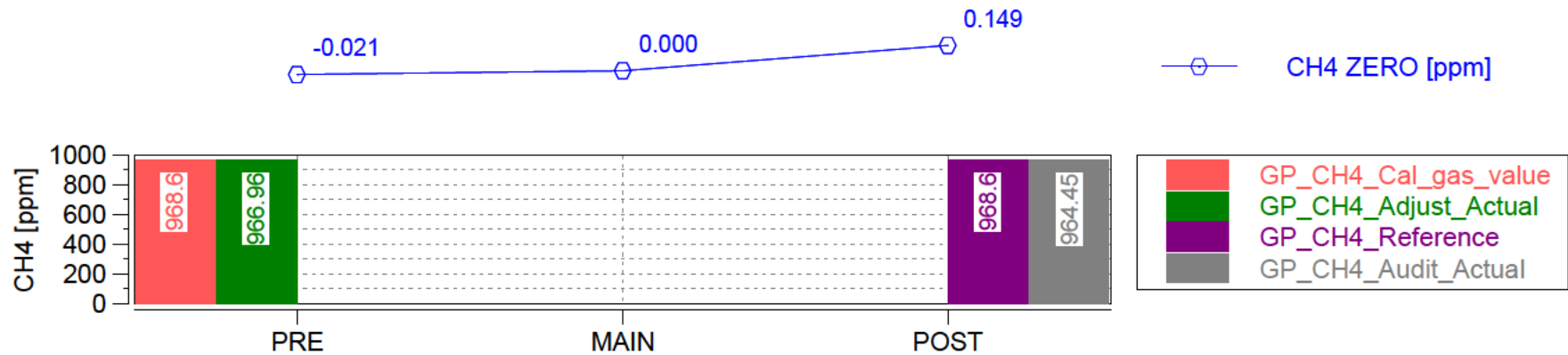
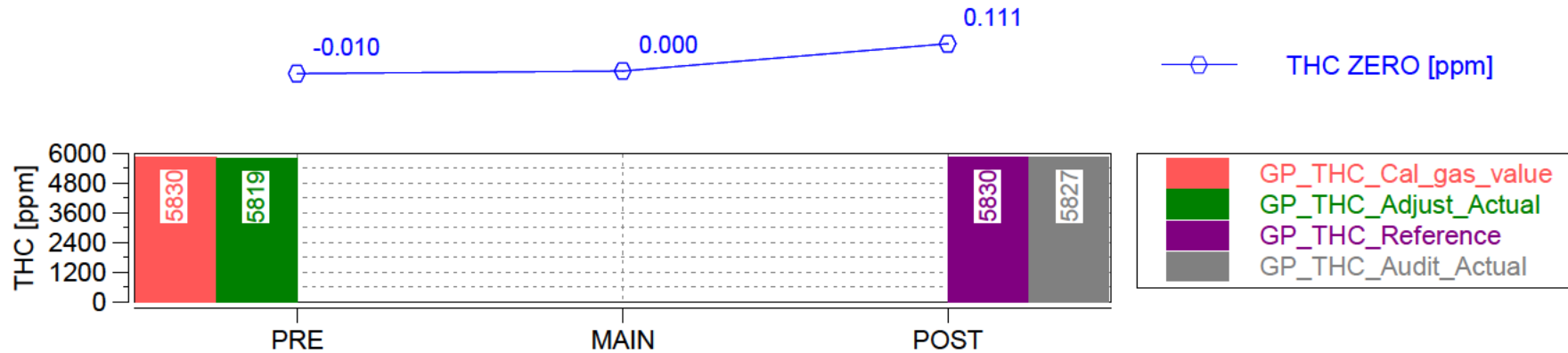
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 08/01/2019
Start Time: 14:05:06.0



Trip Duration	2739.00	s	ave THC	61.67281	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2739.00	s	ave NMHC	60.43935	ppm	BS CO	n/a	g/hphr
Trip Distance	38.75	mi	ave CH4	1.23346	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	38.75	mi	ave CO	38.64771	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.31502	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	10.69205	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	5.96	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	5.90	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	2.11	gall	tot THC	1.44627	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	2.09	gall	tot NMHC	1.33781	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.03206	g	DS CO2	463.72092	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	2.22373	g	DS CO	0.05739	g/mi
Trip Fuel Economy EU (ac)	18.40	mpg_US	tot CO2	17968.70098	g	DS THC	0.03732	g/mi
Trip Fuel Economy US (ac)	18.58	mpg_US	tot NO (d)	1.09216	g	DS NMHC	0.03453	g/mi
Trip Av. Eng. Speed	2310.69	rpm	tot NO2	0.01800	g	DS CH4	0.00083	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	1.11016	g	DS NO (d)	0.02819	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00046	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.02865	g/mi
Trip Exhaust Mass	94.78	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	76.77	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	54.64	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	50.92996	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	1.60643	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 08/01/2019

Start Time: 14:05:06.0



Concerto M.O.V.E., 2018

Trip Duration	2739.00	s	ave THC DC	61.80680	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2739.00	s	ave NMHC DC	60.57066	ppm	BS CO DC	n/a	g/hphr
Trip Distance	38.75	mi	ave CH4 DC	1.23614	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	38.75	mi	ave CO DC	38.63329	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.30238	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	10.73412	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	5.96	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	5.90	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	2.11	gall	tot THC DC	1.45037	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	2.09	gall	tot NMHC DC	1.34160	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.03215	g	DS CO2 DC	463.24503	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	2.22336	g	DS CO DC	0.05738	g/mi
Trip Fuel Economy EU (ac)	18.40	mpg_US	tot CO2 DC	17950.26041	g	DS THC DC	0.03743	g/mi
Trip Fuel Economy US (ac)	18.58	mpg_US	tot NO DC (d)	1.09634	g	DS NMHC DC	0.03462	g/mi
Trip Av. Eng. Speed	2310.69	rpm	tot NO2 DC	0.01817	g	DS CH4 DC	0.00083	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	1.11452	g	DS NO DC (d)	0.02829	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00047	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.02876	g/mi
Trip Exhaust Mass	94.78	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	76.77	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	54.64	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	50.92996	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	1.60643	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

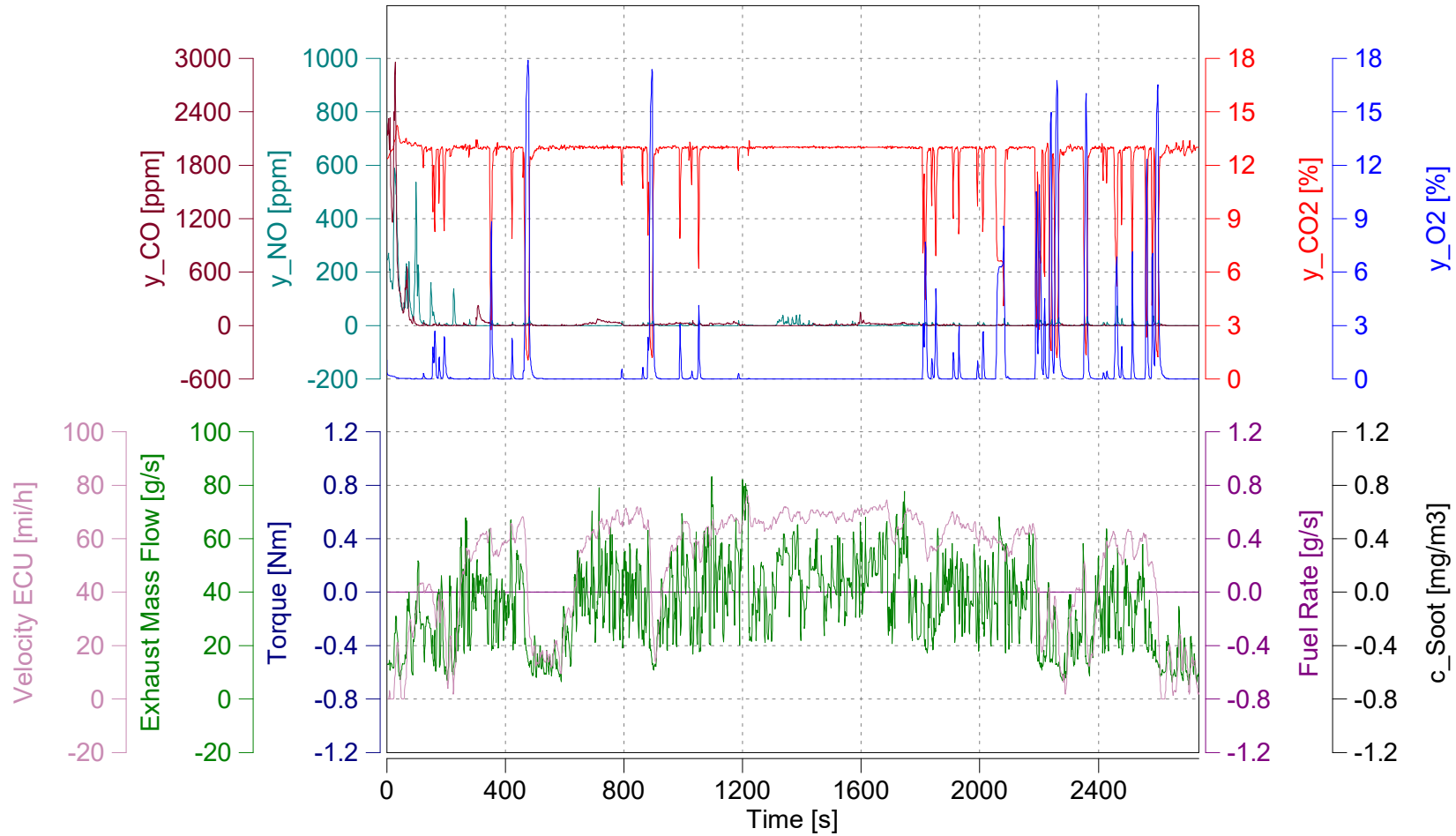
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

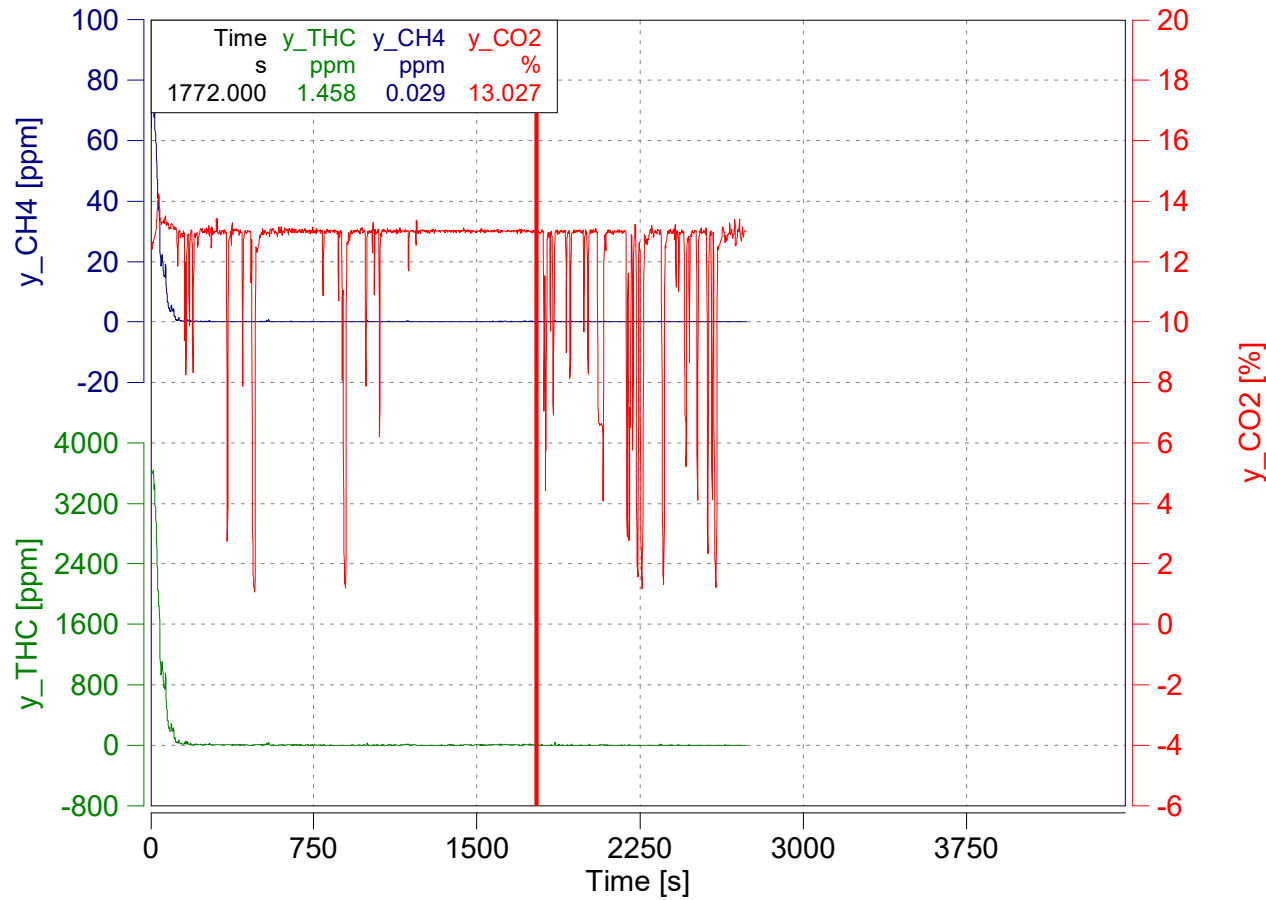
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

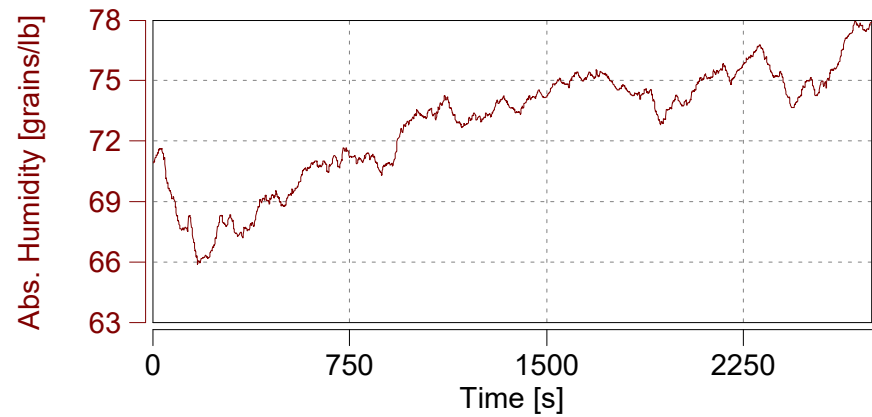
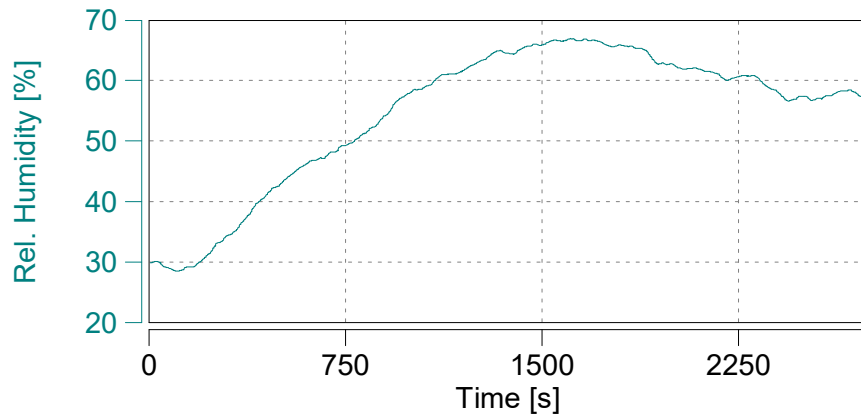
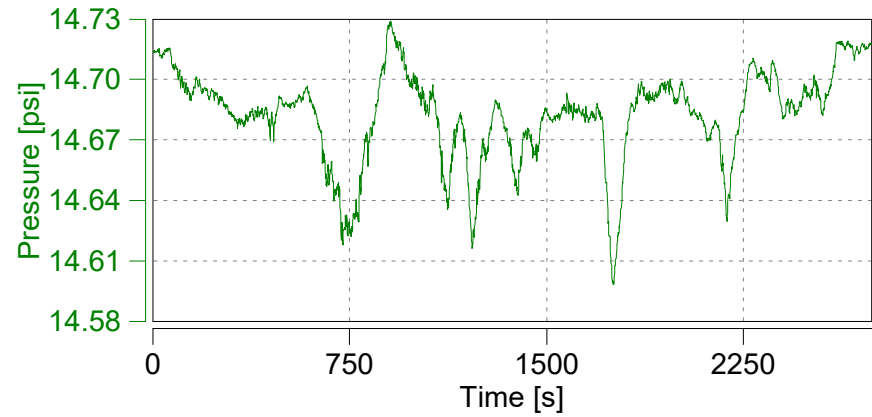
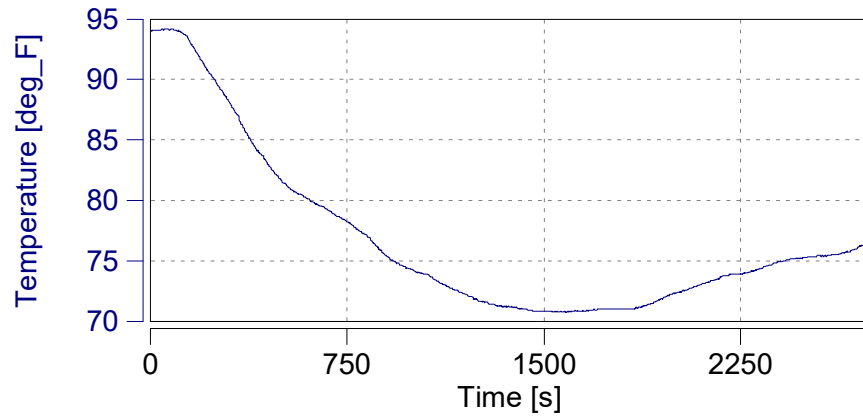


Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

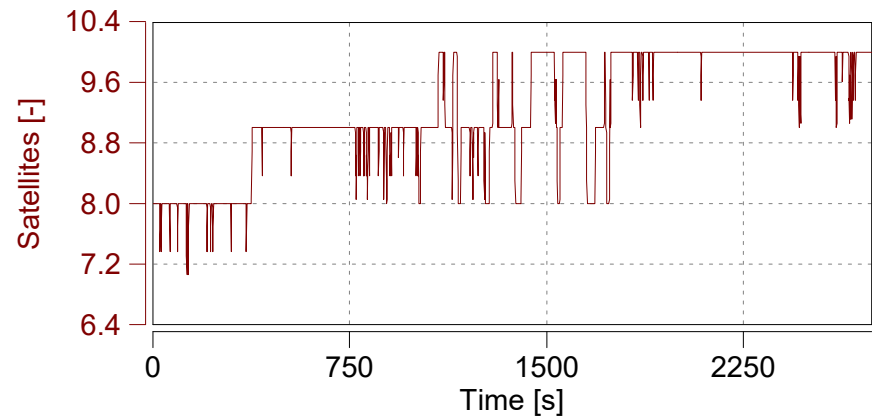
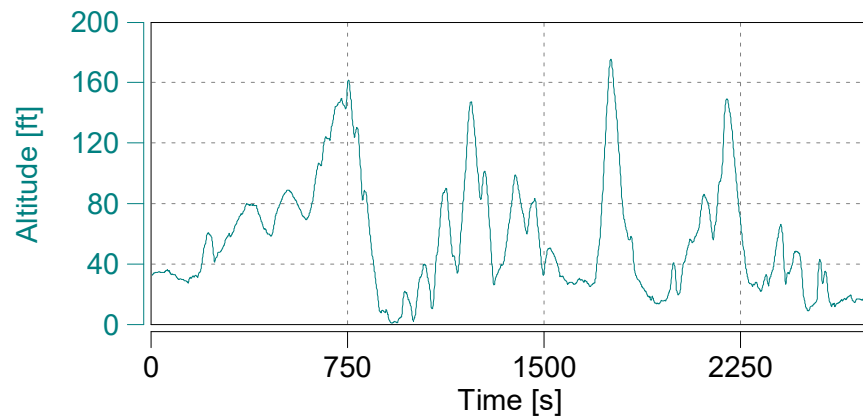
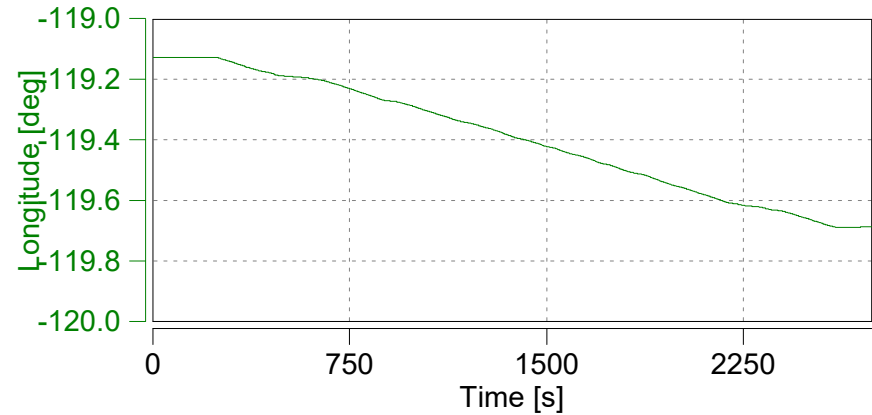
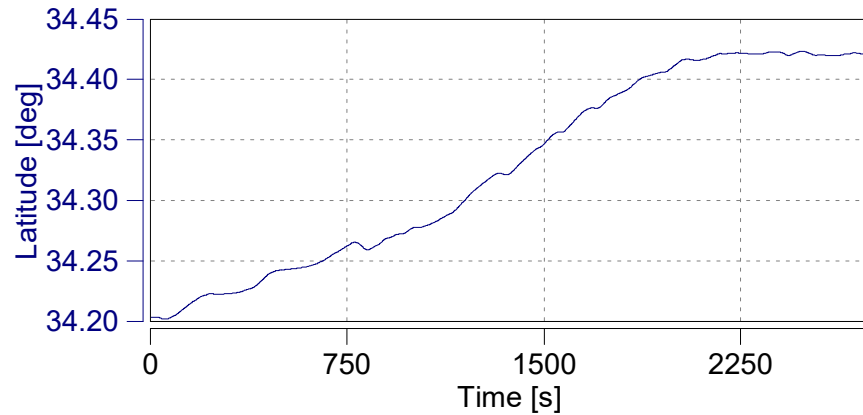
'Highway'

Start Date: 08/01/2019

Start Time: 14:05:06.0

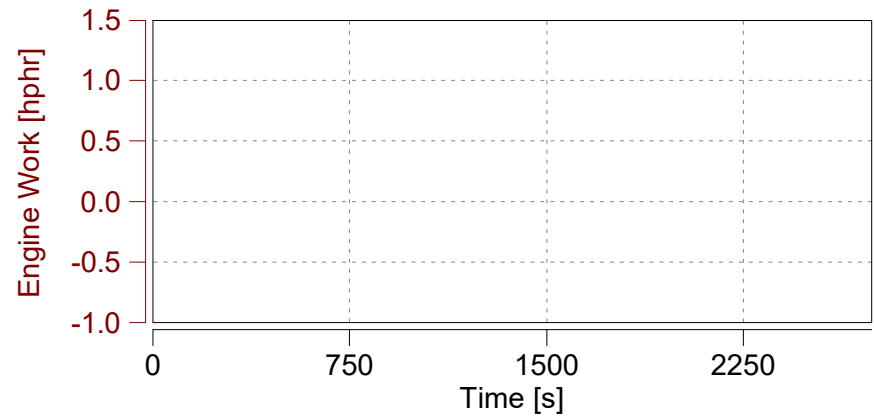
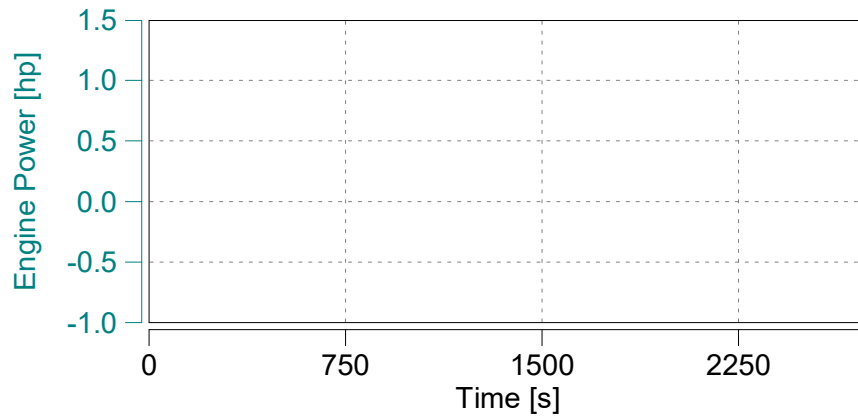
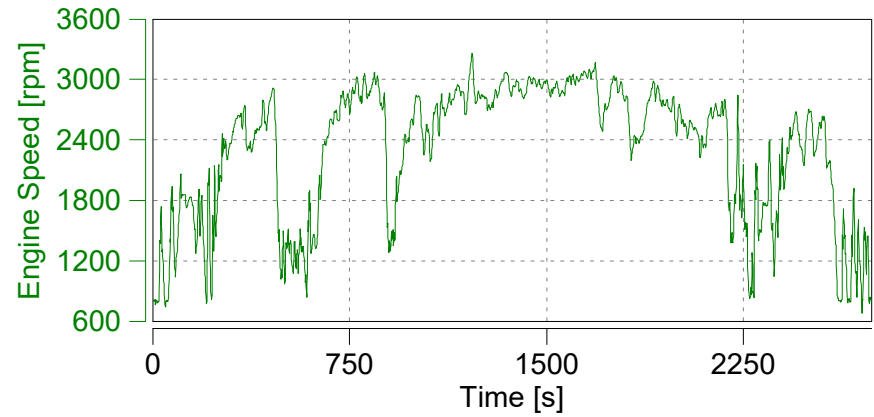
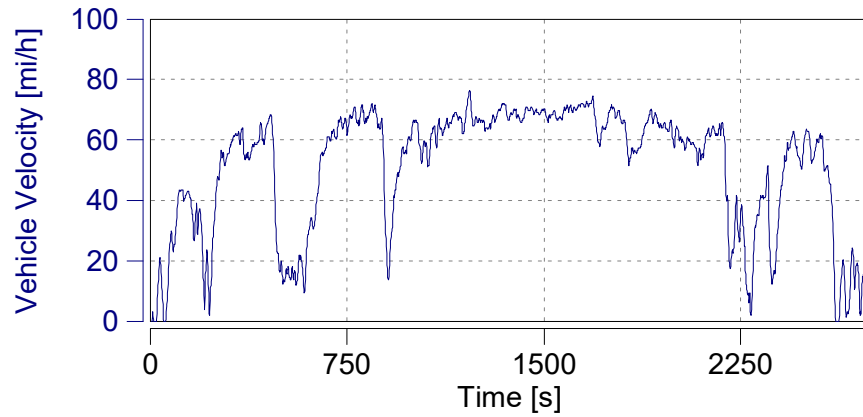


Concerto M.O.V.E., 2018



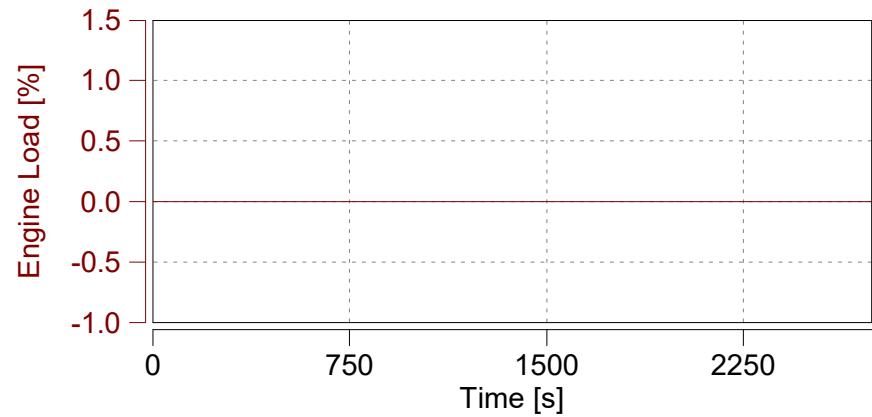
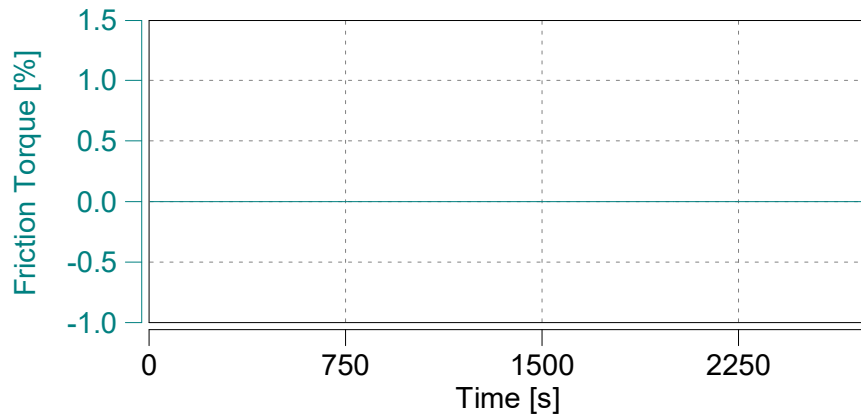
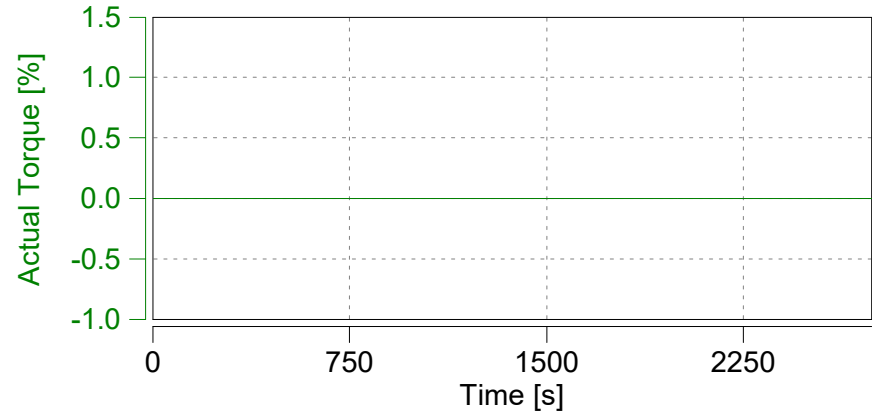
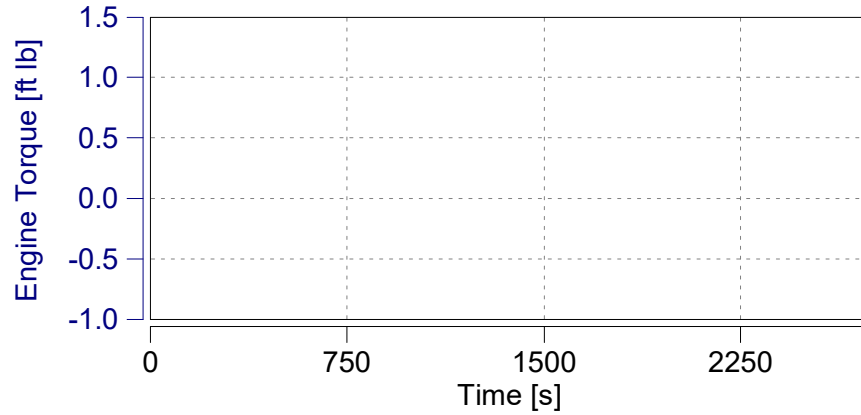
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

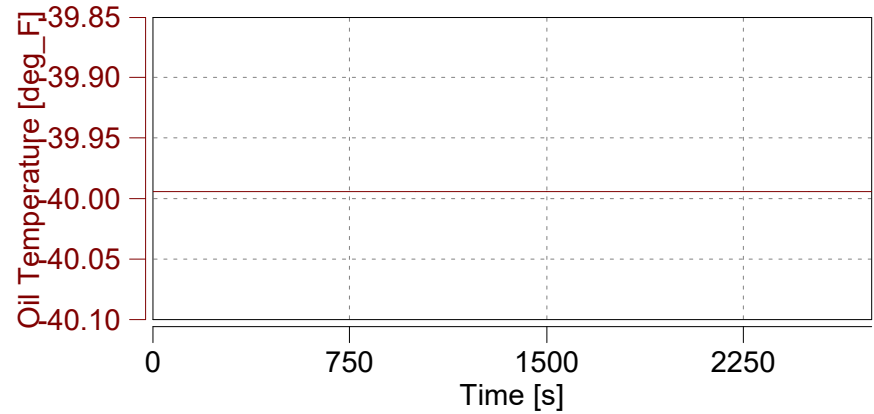
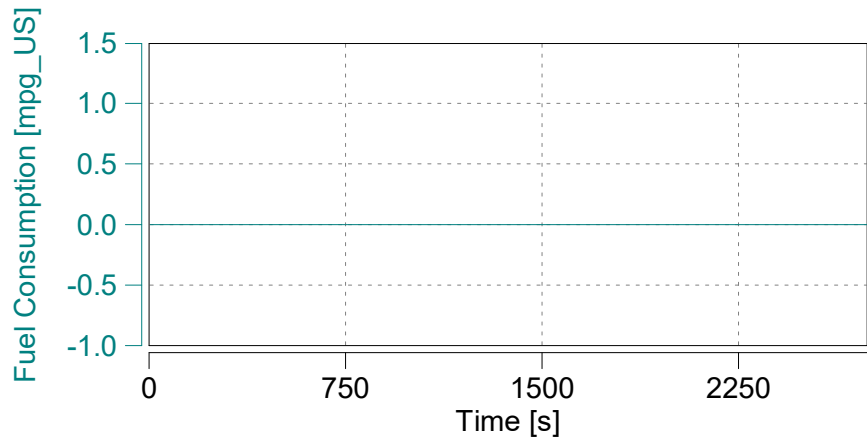
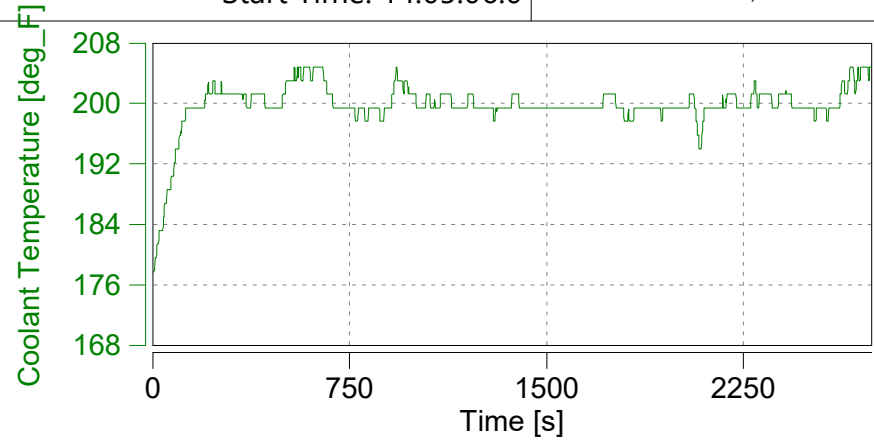
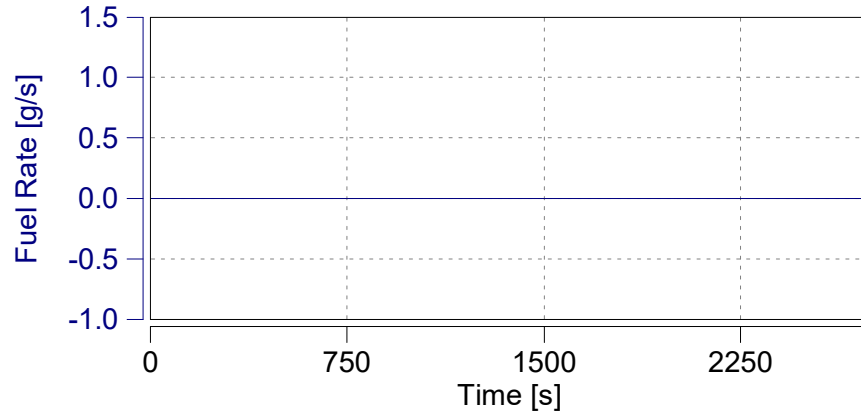
Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

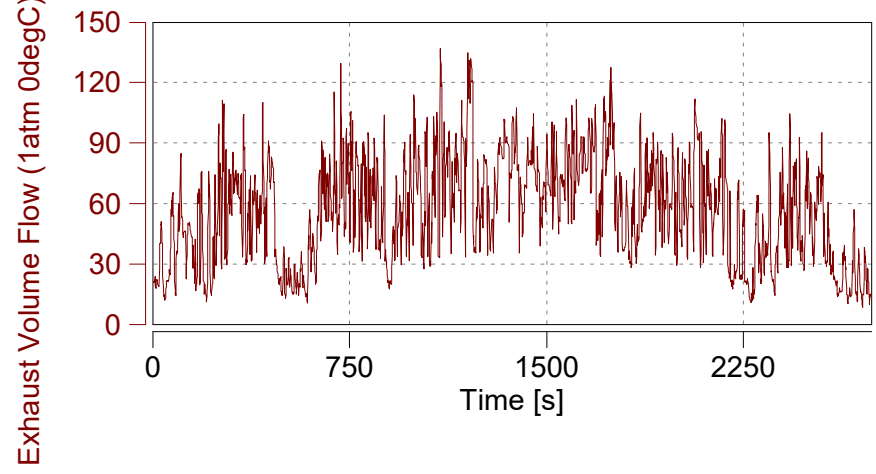
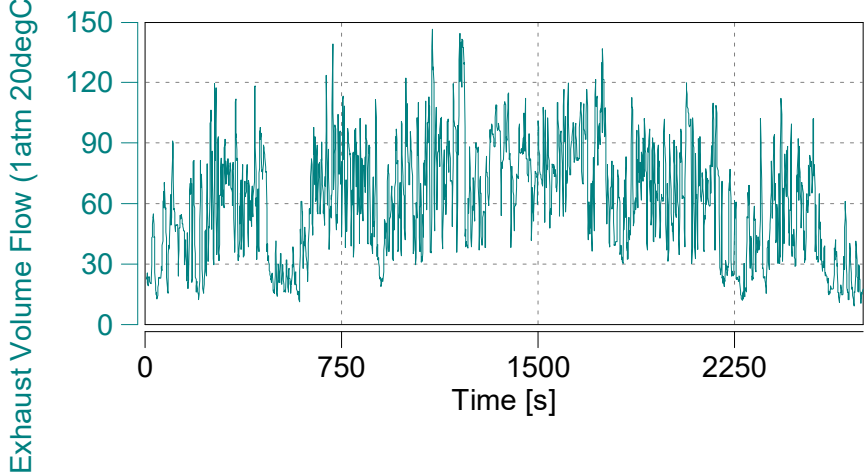
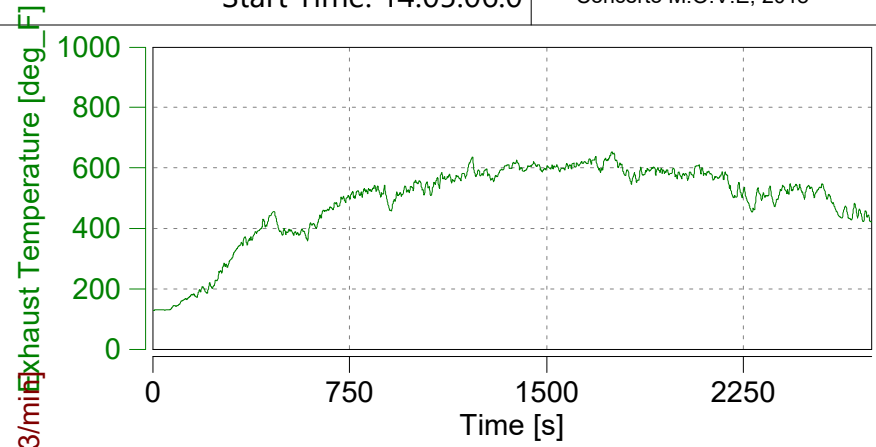
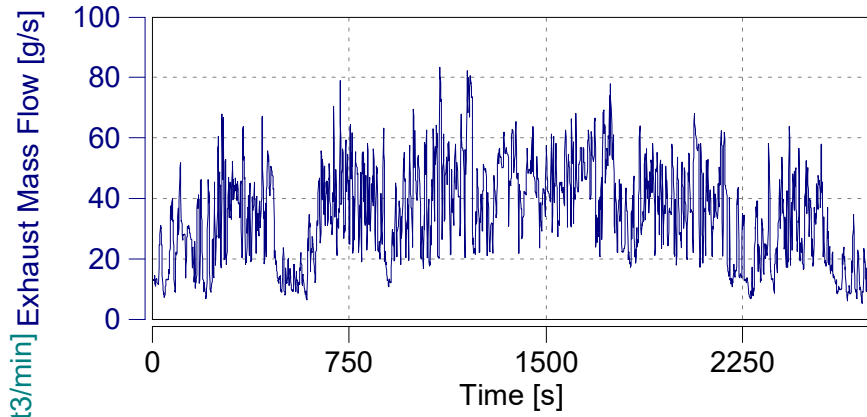
'Highway'

Start Date: 08/01/2019

Start Time: 14:05:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (2)

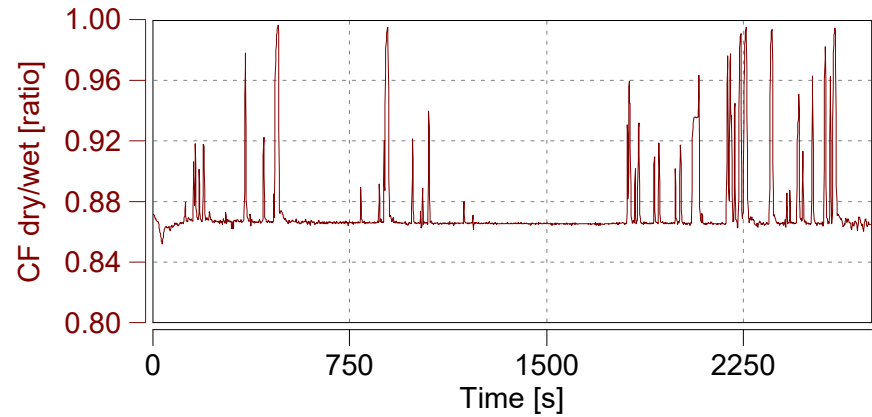
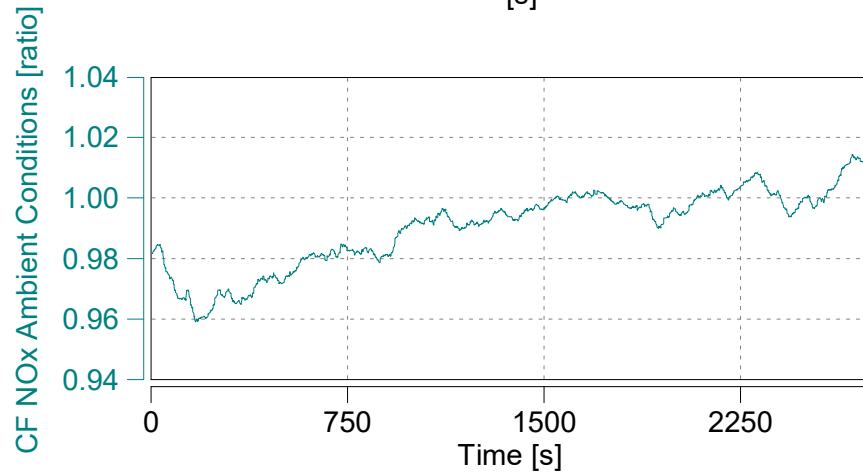
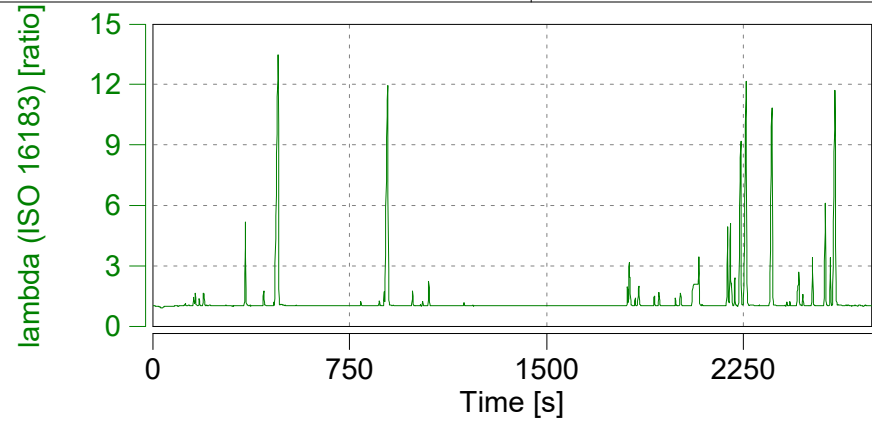
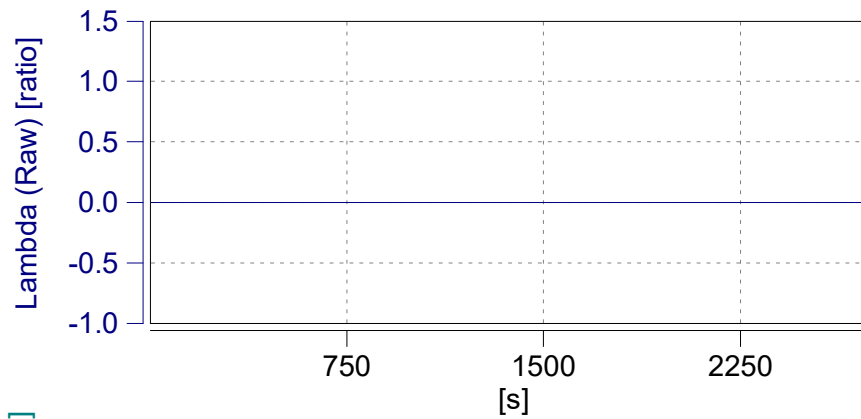
'Highway'

Start Date: 08/01/2019

Start Time: 14:05:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

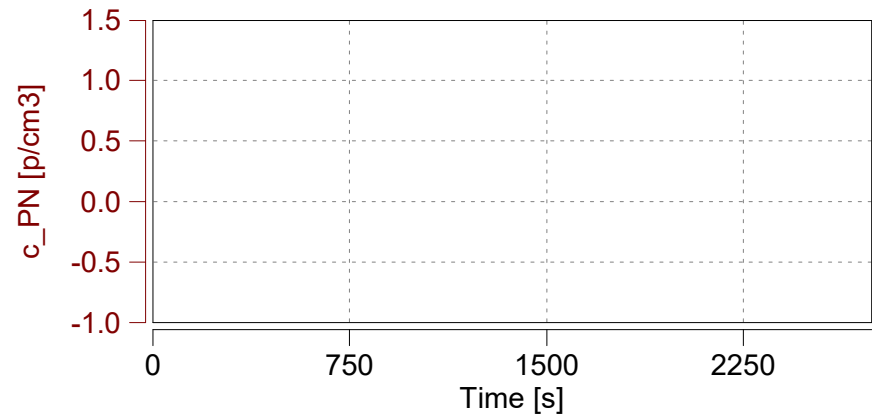
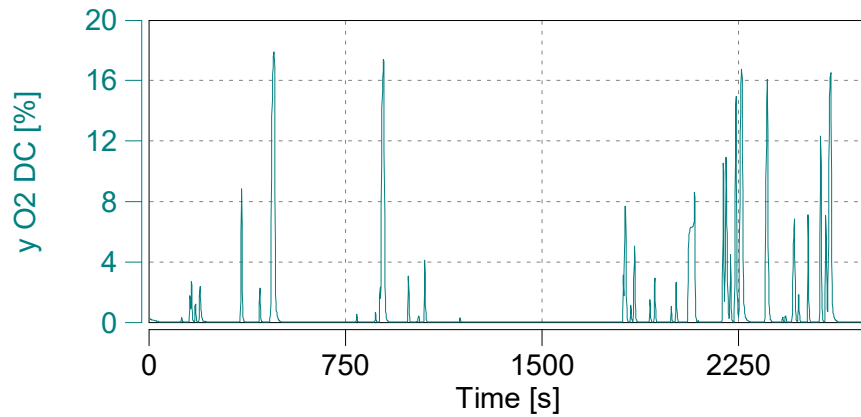
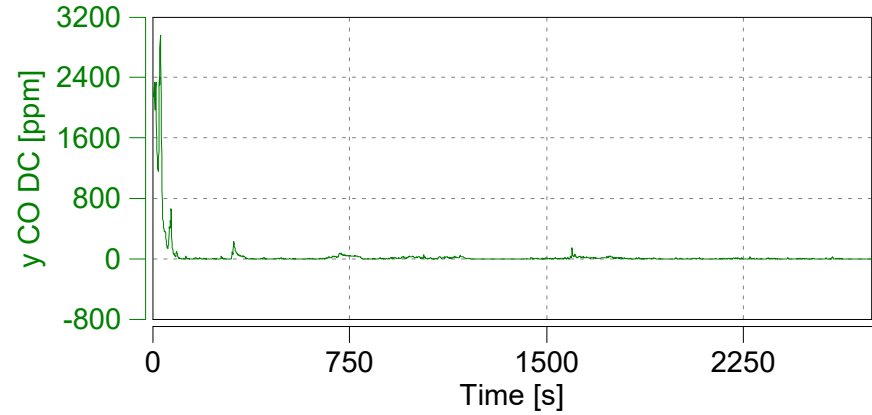
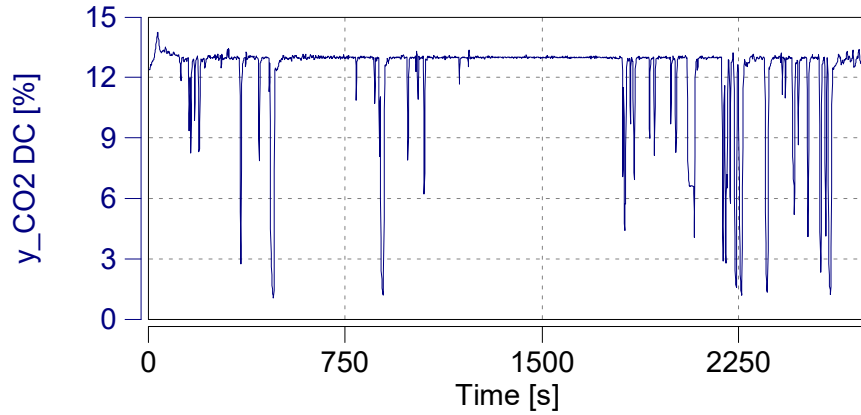
'Highway'

Start Date: 08/01/2019

Start Time: 14:05:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (2)

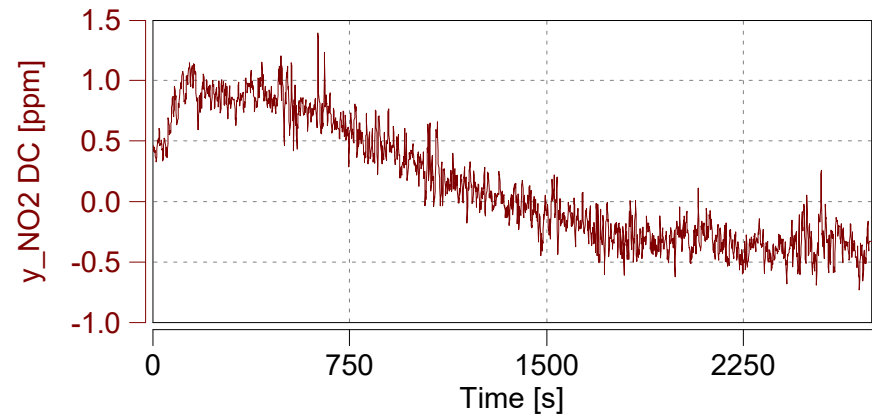
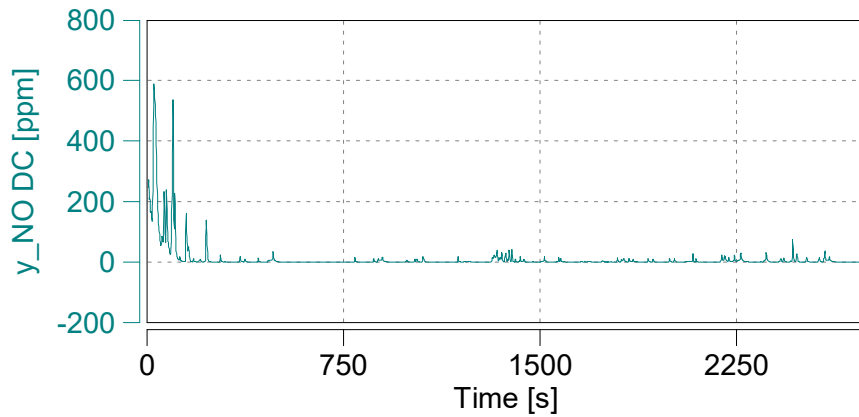
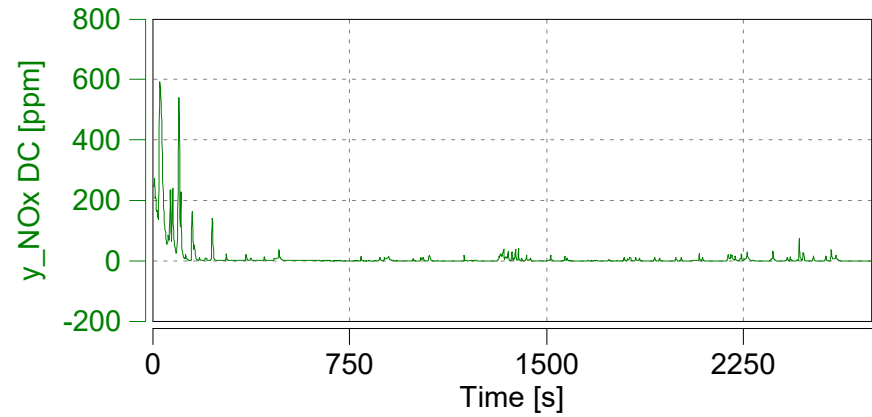
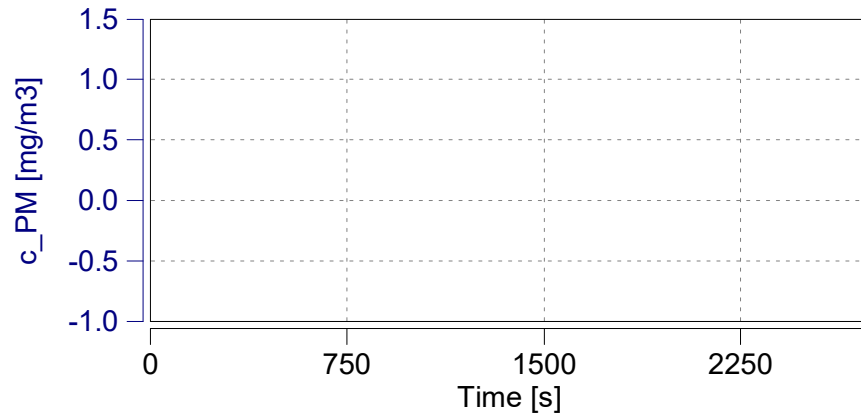
'Highway'

Start Date: 08/01/2019

Start Time: 14:05:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

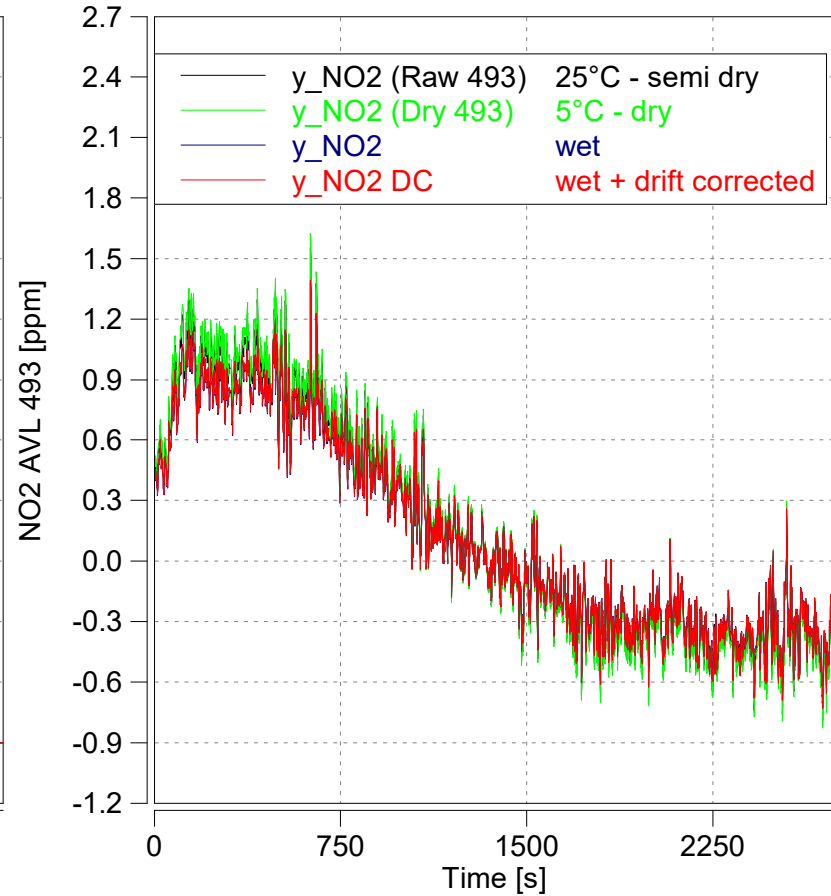
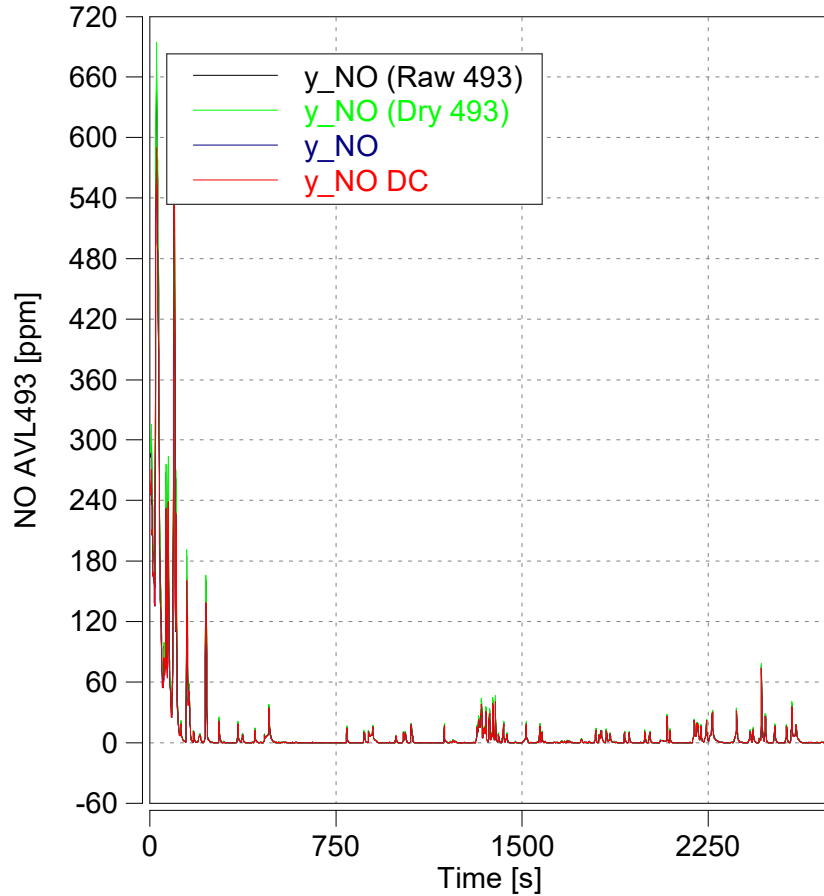
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

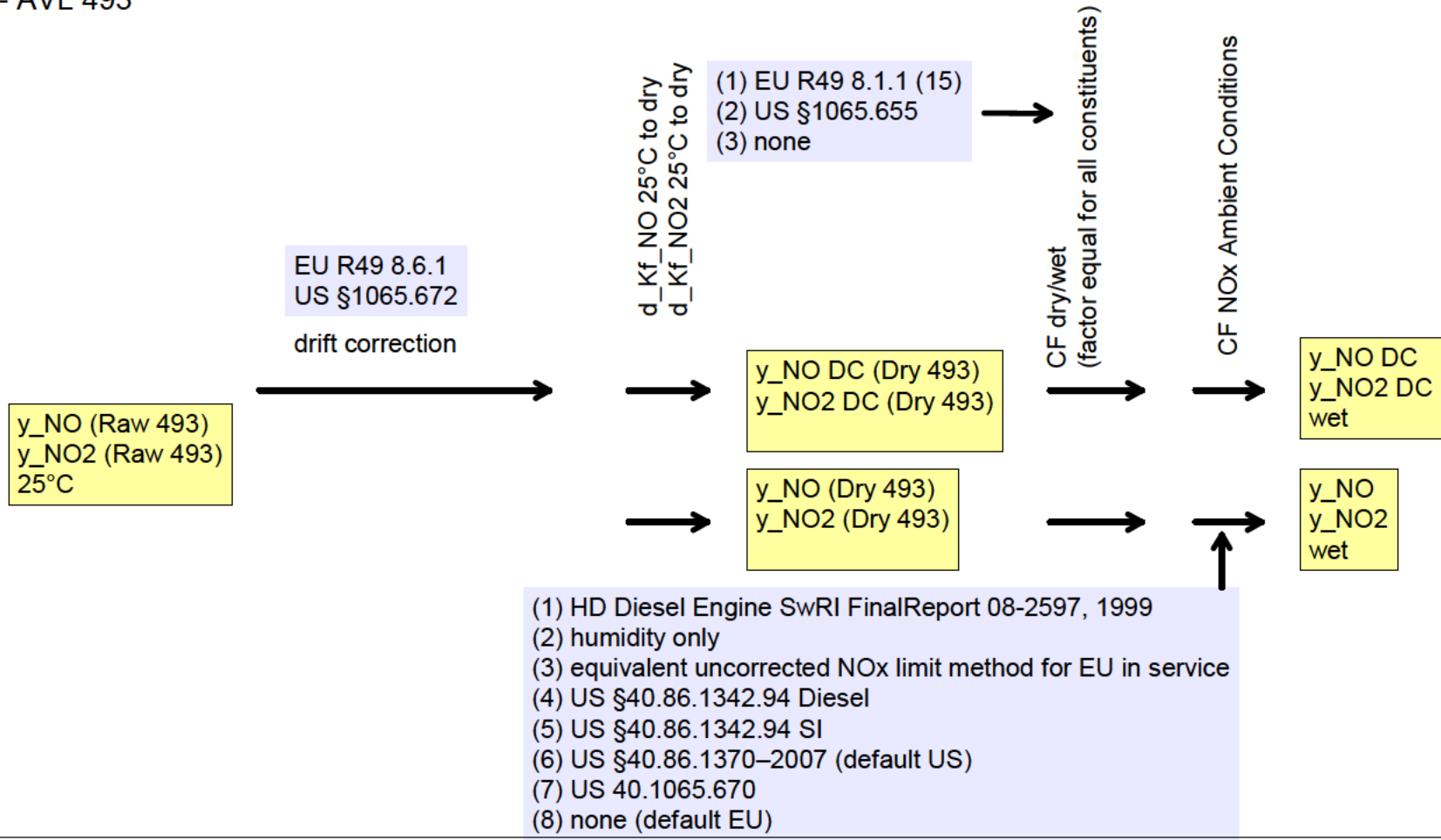


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

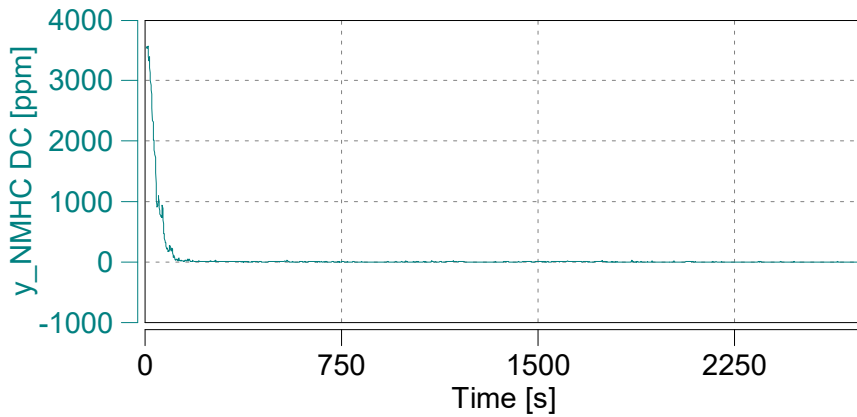
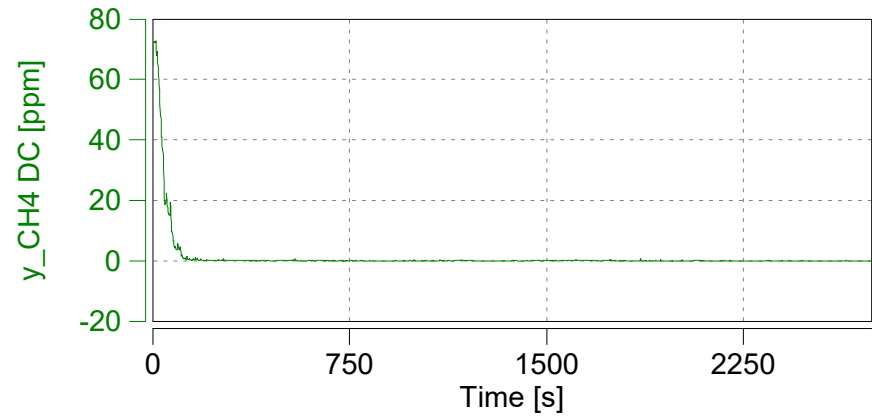
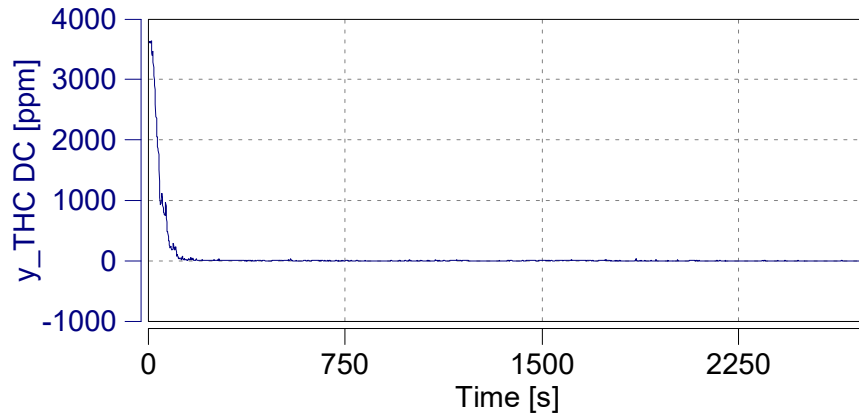
'Highway'

Start Date: 08/01/2019

Start Time: 14:05:06.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

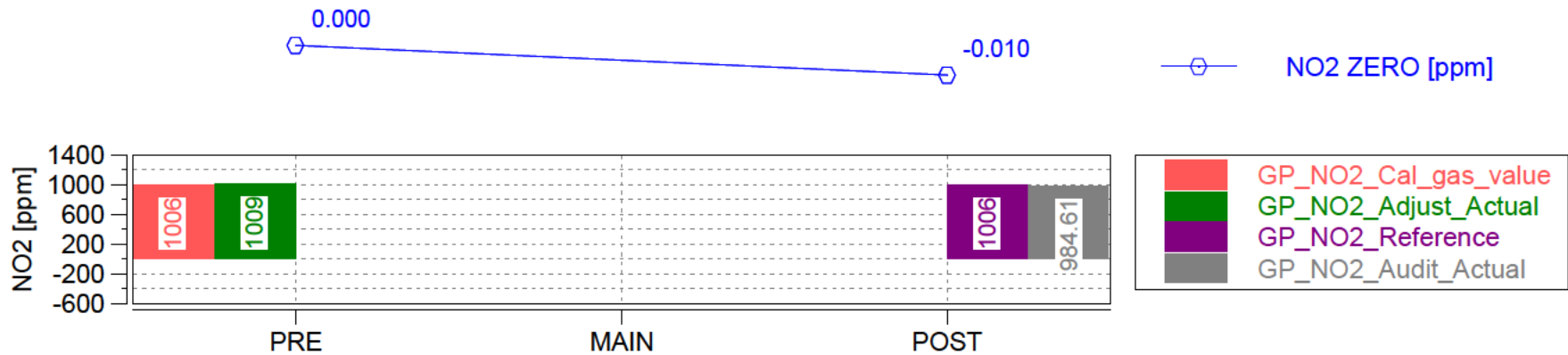
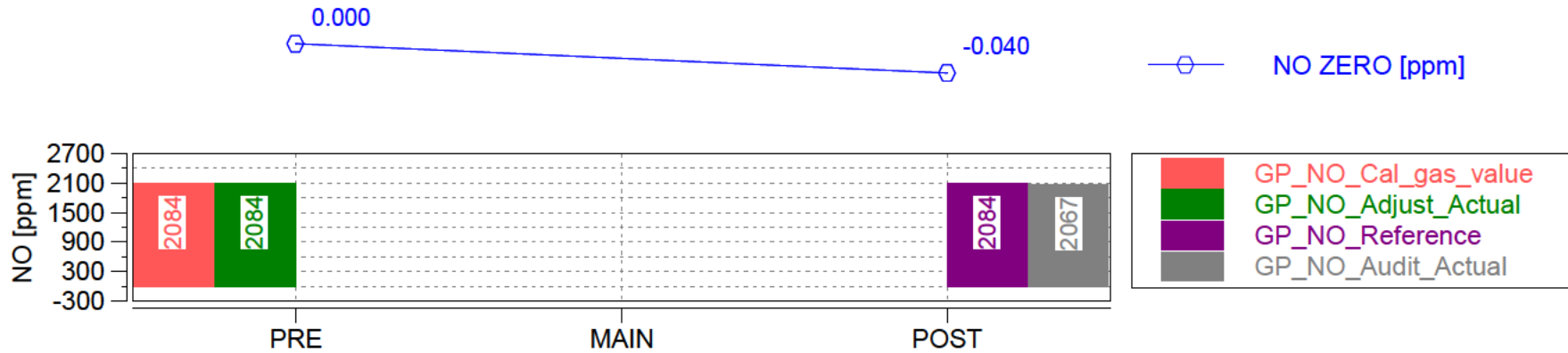
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

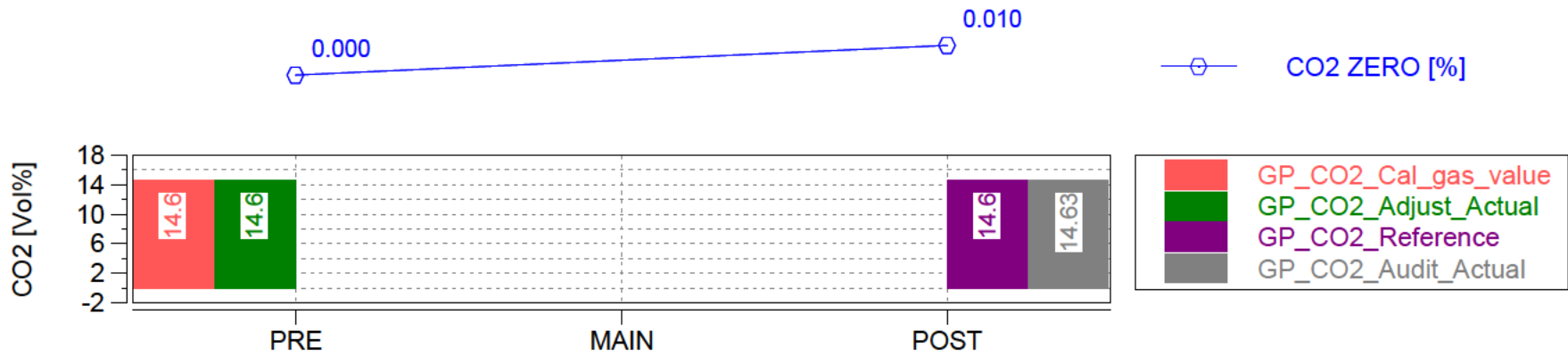
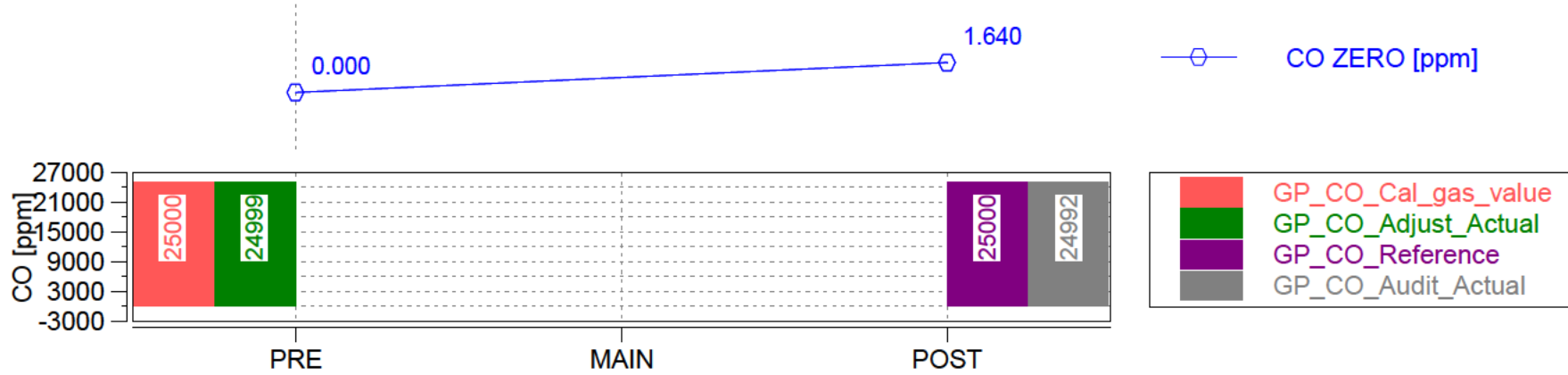
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Vehicle: R8 / 5.2 L

Engine: /

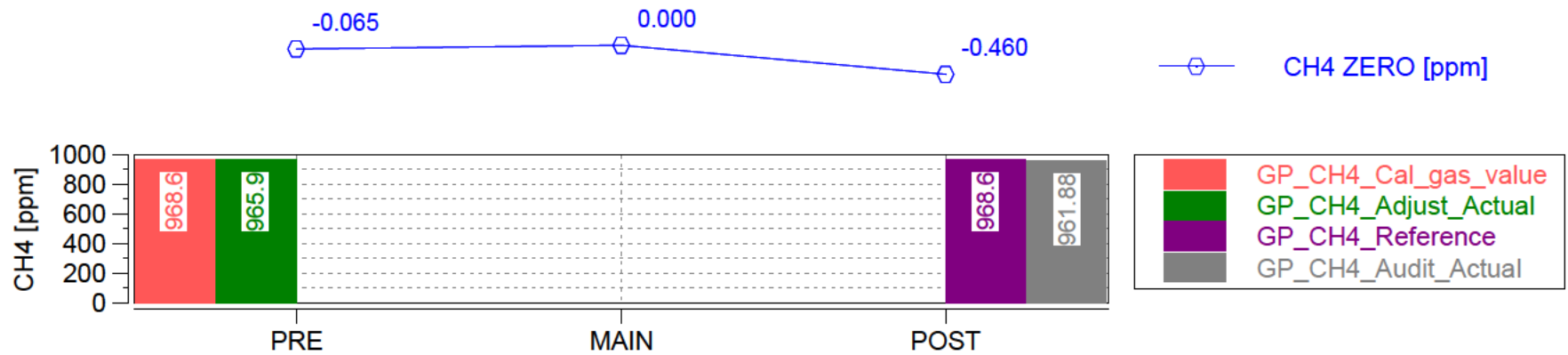
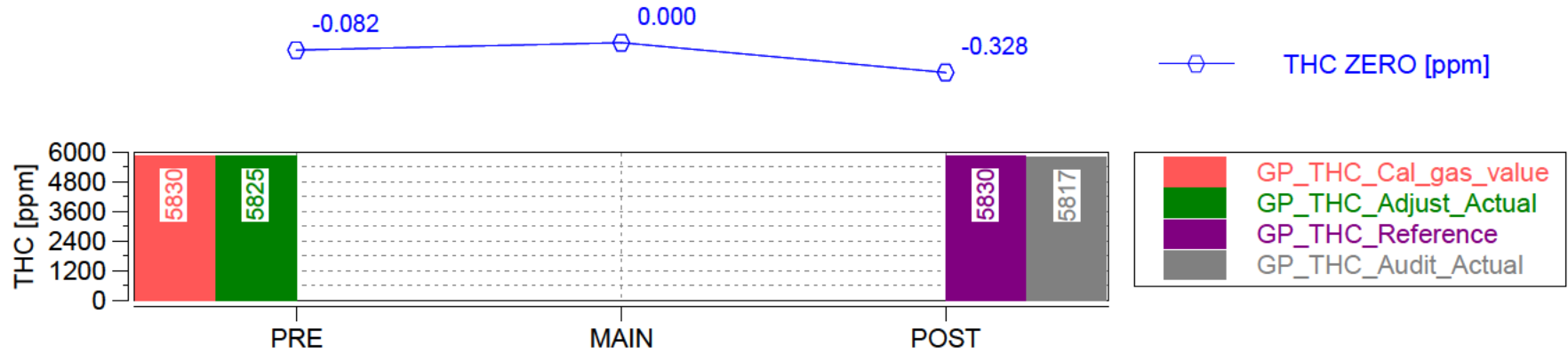
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 08/01/2019
Start Time: 18:32:47.0



Trip Duration	3232.00	s	ave THC	22.86115	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3232.00	s	ave NMHC	22.40393	ppm	BS CO	n/a	g/hphr
Trip Distance	28.78	mi	ave CH4	0.45722	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	28.78	mi	ave CO	56.66194	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	11.38616	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	4.03421	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.54	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.50	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.60	gall	tot THC	0.94040	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.59	gall	tot NMHC	0.86988	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.02084	g	DS CO2	476.14167	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	4.48624	g	DS CO	0.15588	g/mi
Trip Fuel Economy EU (ac)	17.94	mpg_US	tot CO2	13703.81222	g	DS THC	0.03267	g/mi
Trip Fuel Economy US (ac)	18.08	mpg_US	tot NO (d)	0.37343	g	DS NMHC	0.03022	g/mi
Trip Av. Eng. Speed	1720.31	rpm	tot NO2	0.03844	g	DS CH4	0.00072	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.41187	g	DS NO (d)	0.01297	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00134	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01431	g/mi
Trip Exhaust Mass	76.78	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	81.51	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	39.14	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	32.05905	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	11.78837	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironmets\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Trip Duration	3232.00	s	ave THC DC	22.90193	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3232.00	s	ave NMHC DC	22.44390	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.78	mi	ave CH4 DC	0.45804	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.78	mi	ave CO DC	56.20571	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	11.38198	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	4.17363	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.54	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.50	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC DC	0.94241	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.60	gall	tot NMHC DC	0.87174	g			
Trip Fuel Cons. Volume US (ac)	1.59	gall	tot CH4 DC	0.02089	g	DS CO2 DC	475.96983	g/mi
			tot CO DC	4.44946	g	DS CO DC	0.15460	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	13698.86641	g	DS THC DC	0.03274	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.37771	g	DS NMHC DC	0.03029	g/mi
Trip Fuel Economy EU (ac)	17.94	mpg_US	tot NO2 DC	0.05239	g	DS CH4 DC	0.00073	g/mi
Trip Fuel Economy US (ac)	18.08	mpg_US	tot NOx DC	0.43010	g	DS NO DC (d)	0.01312	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00182	g/mi
Trip Av. Eng. Speed	1720.31	rpm	tot Soot meas	n/a	g	DS NOx DC	0.01494	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	76.78	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	81.51	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	39.14	%	Trip Av. Veh. Speed	32.05905	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	11.78837	%	FS NO DC (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

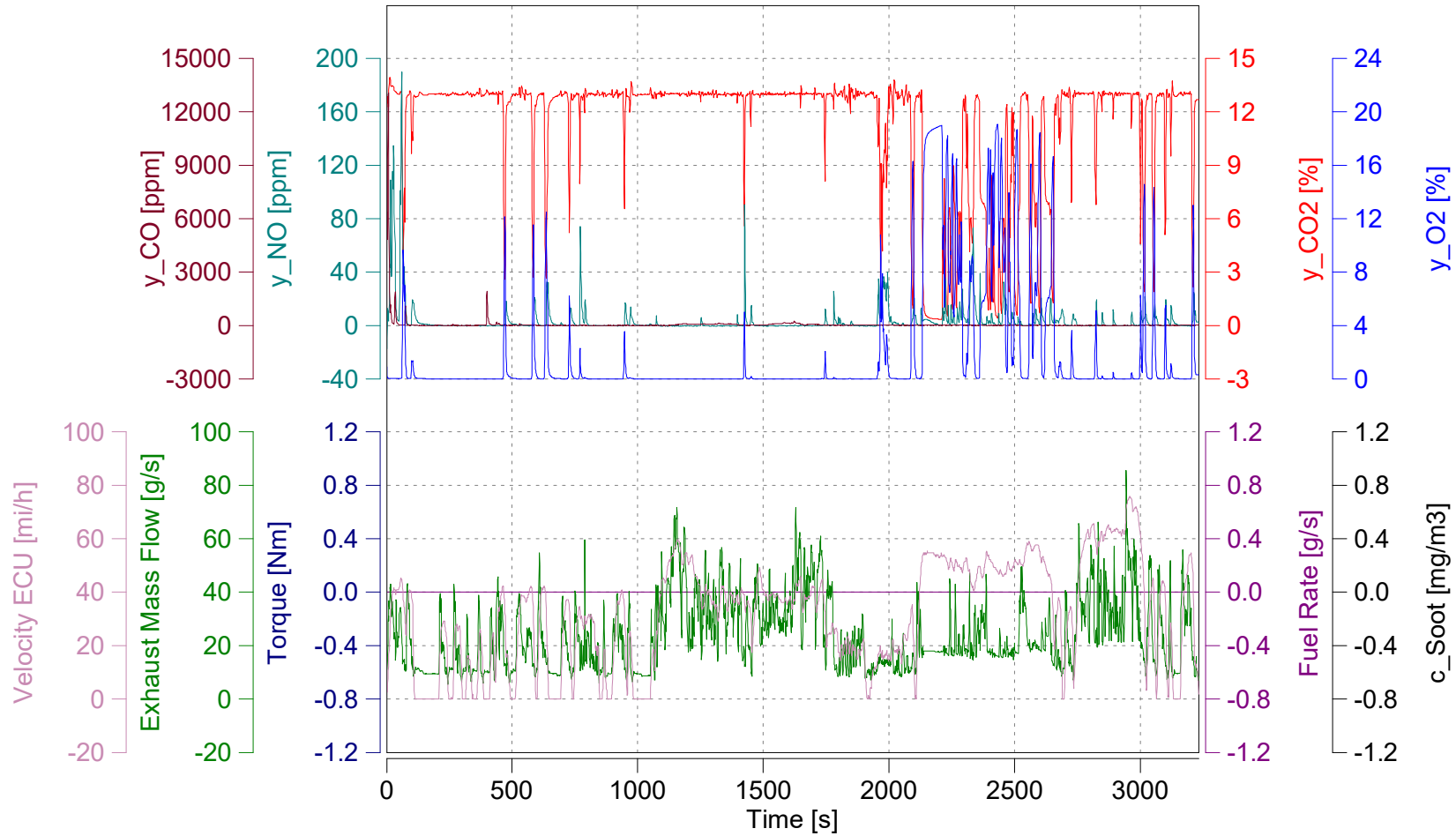
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Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

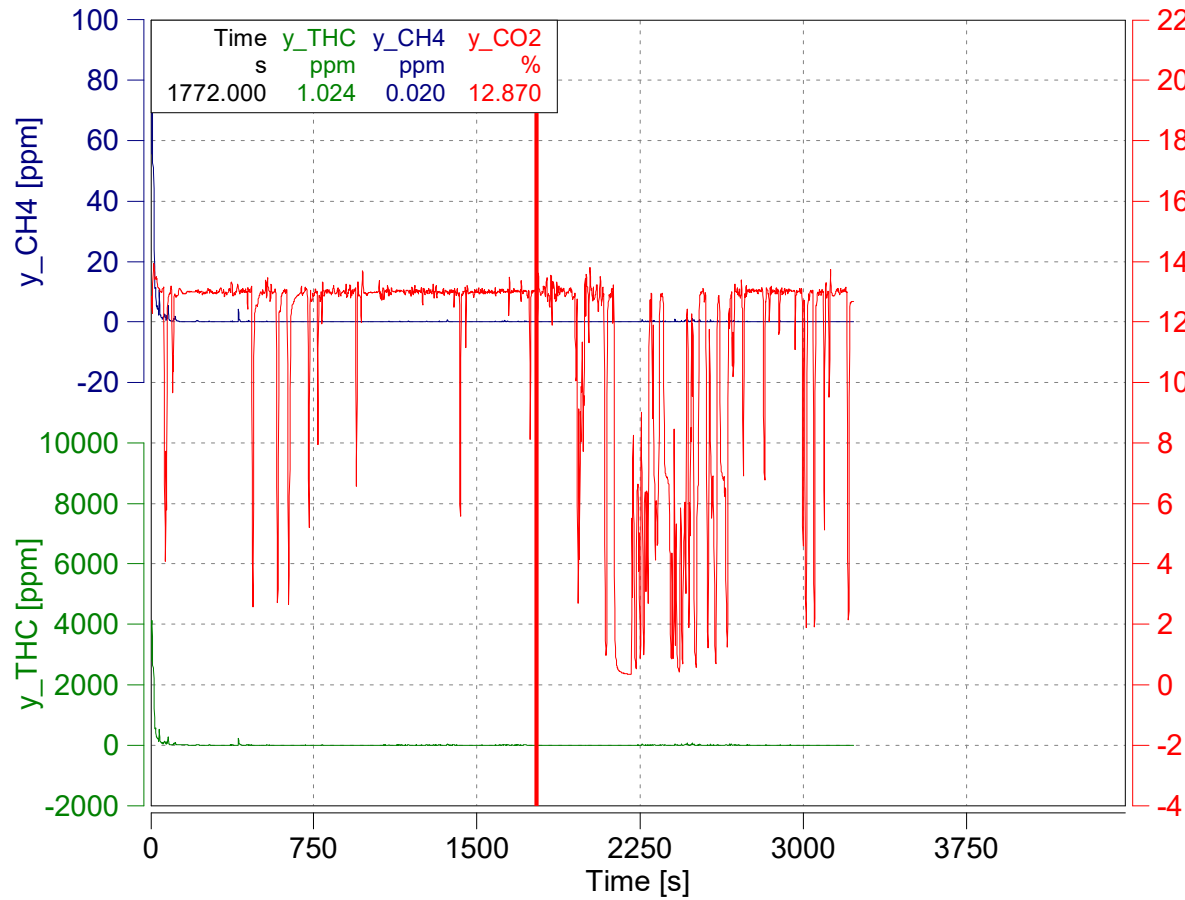
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Vehicle: R8 / 5.2 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

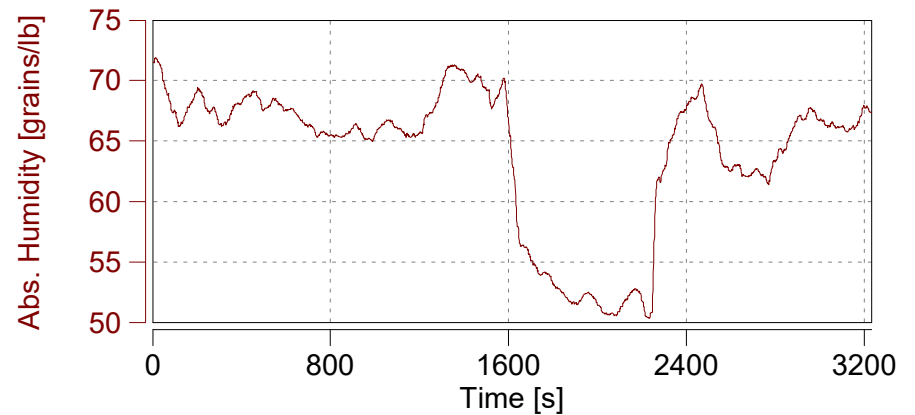
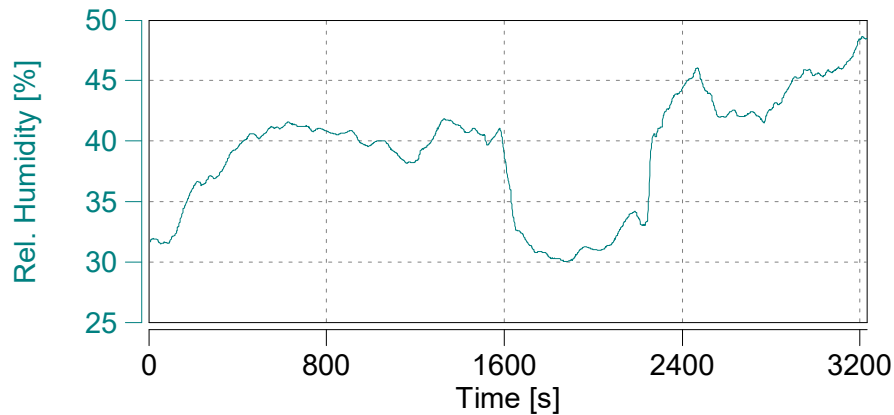
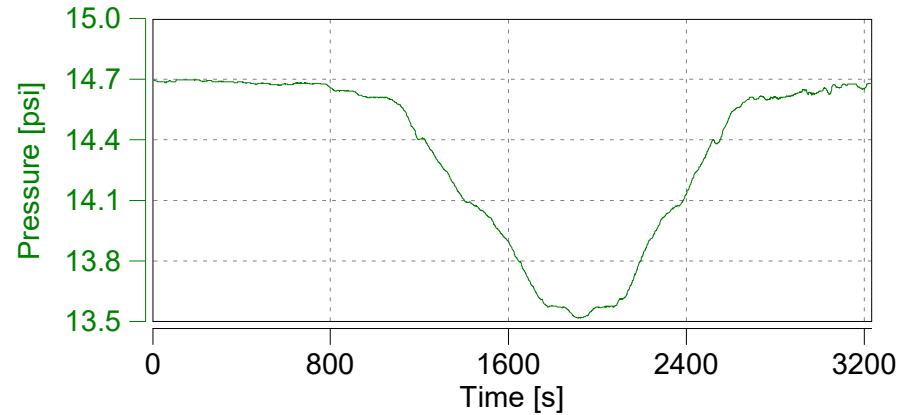
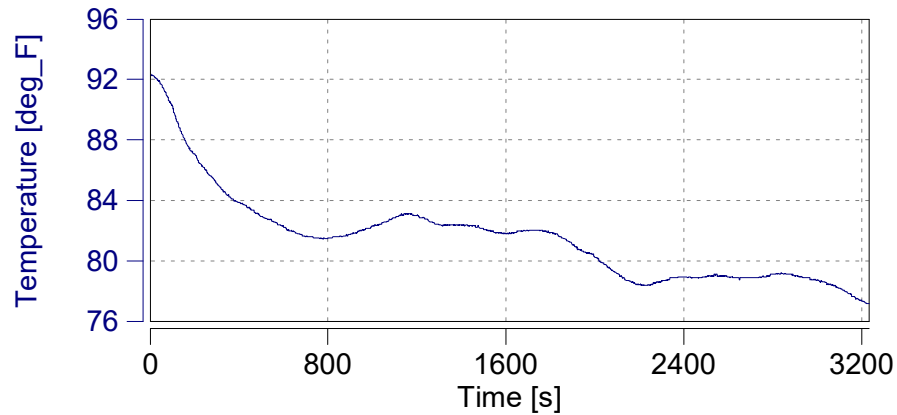


Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

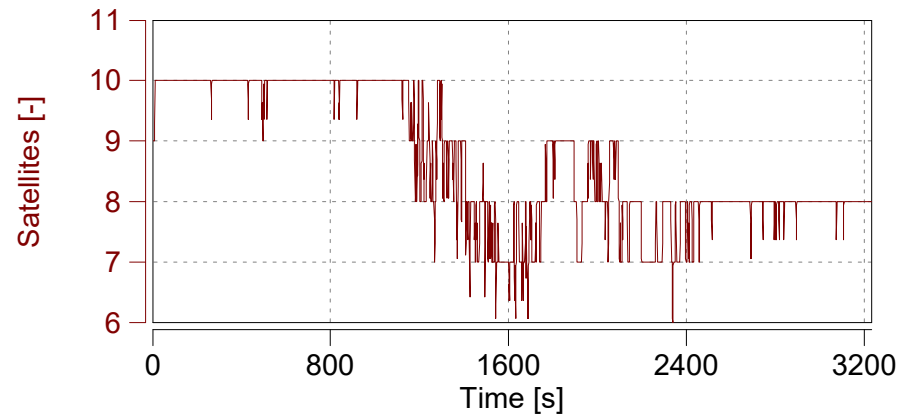
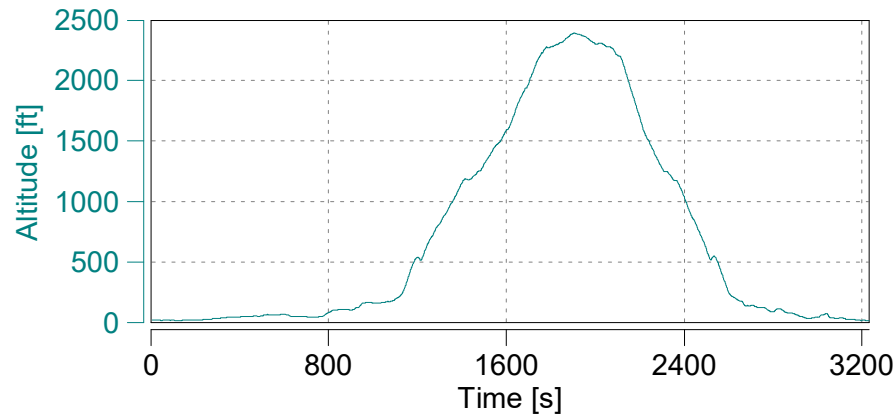
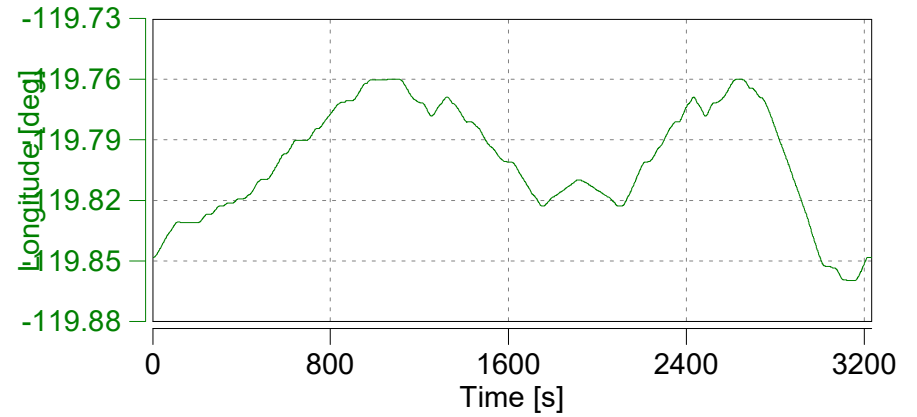
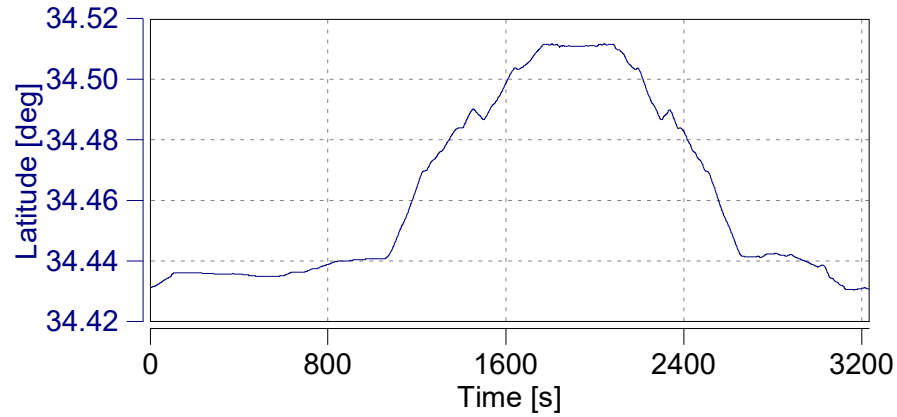
Reset Time Shifts in Plot

Apply Current Values



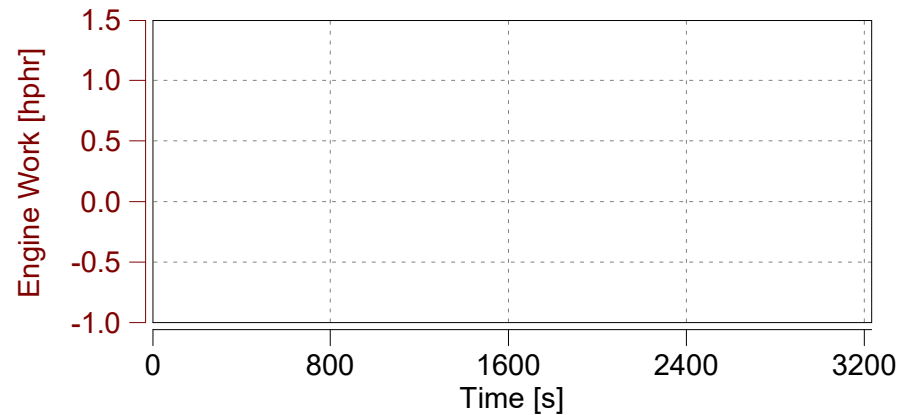
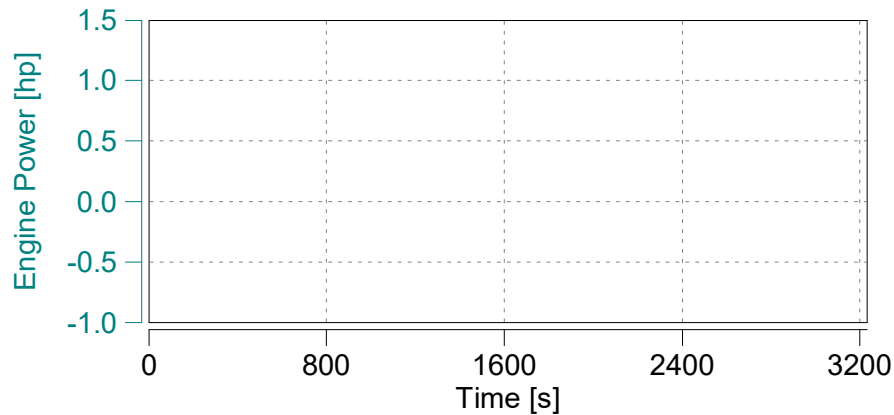
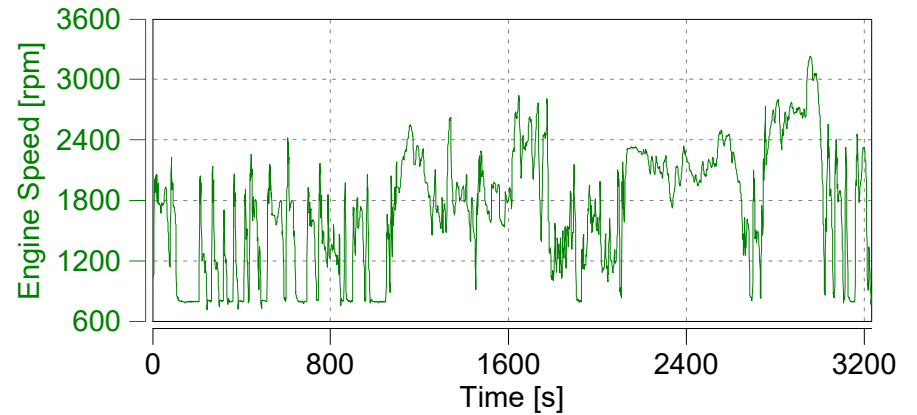
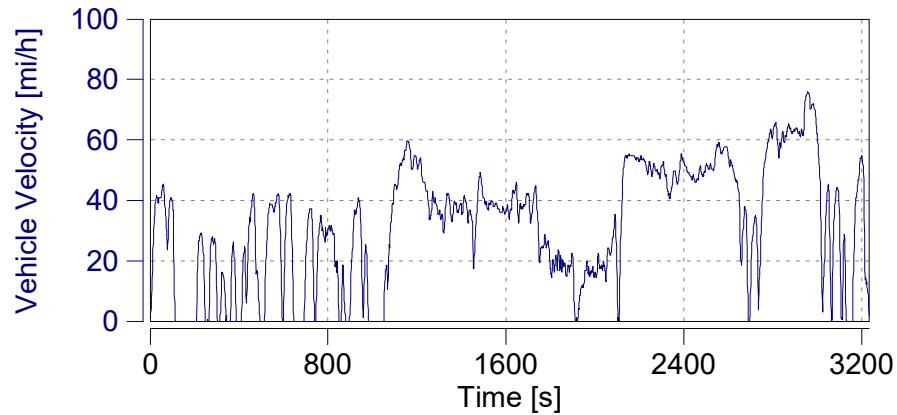
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



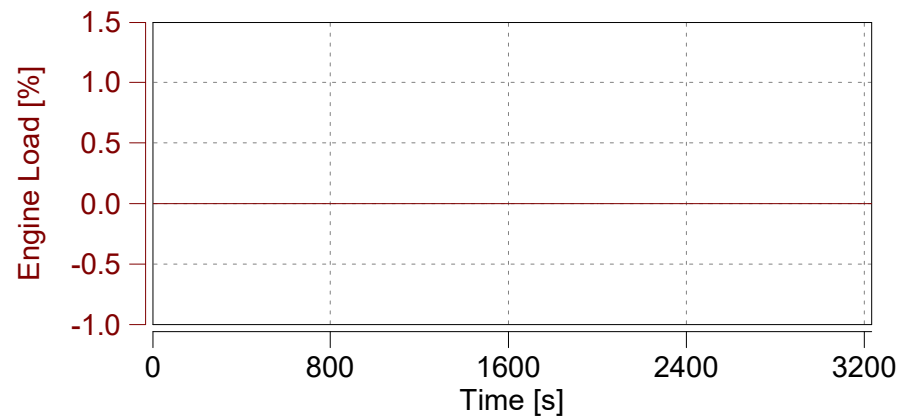
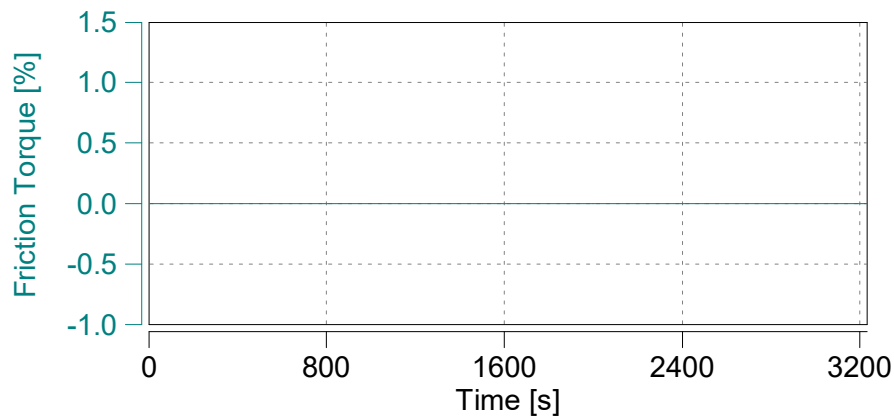
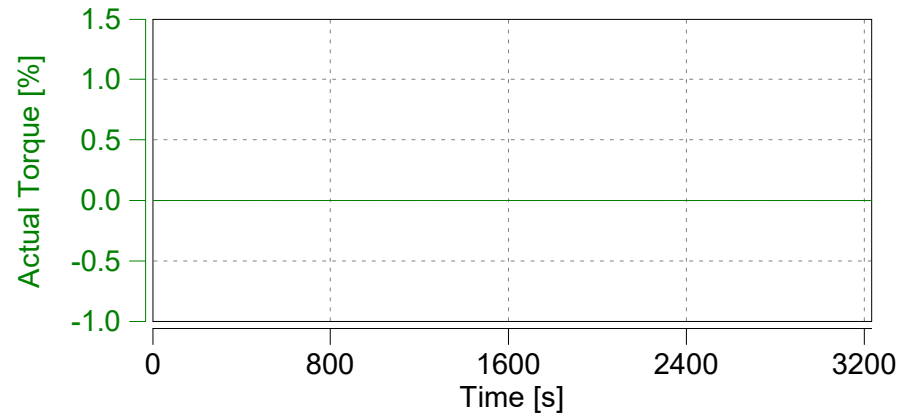
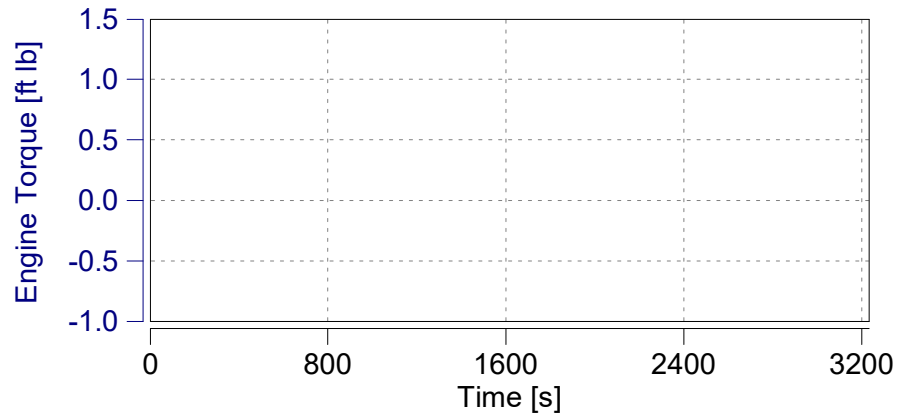
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



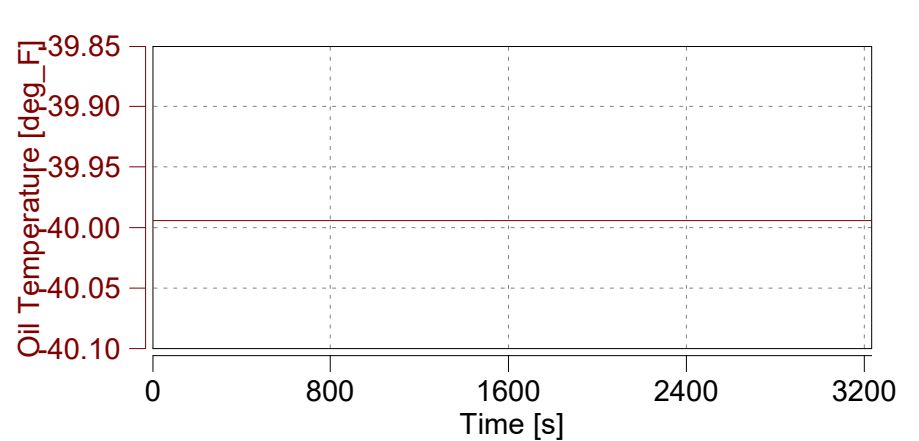
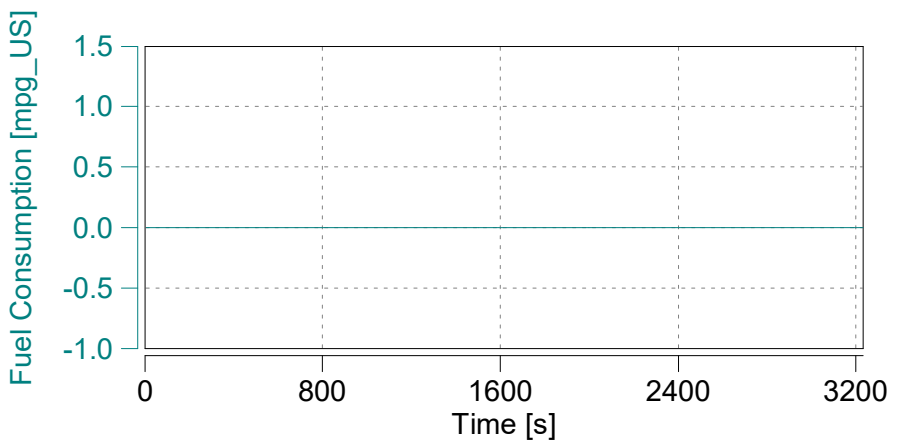
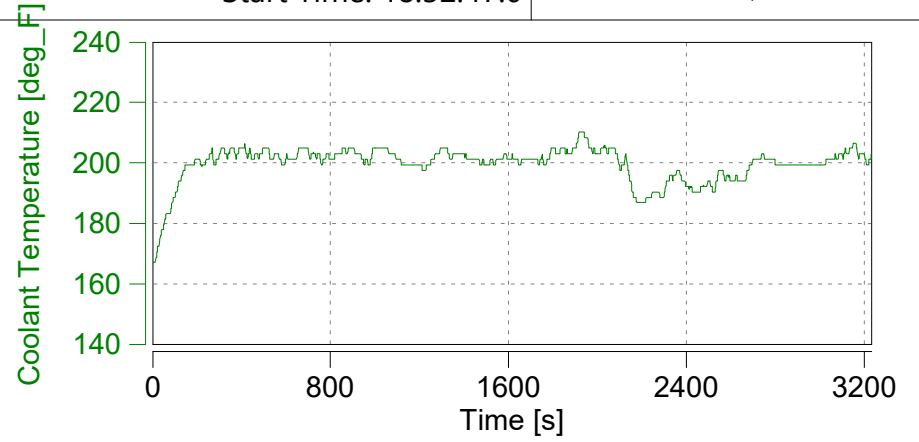
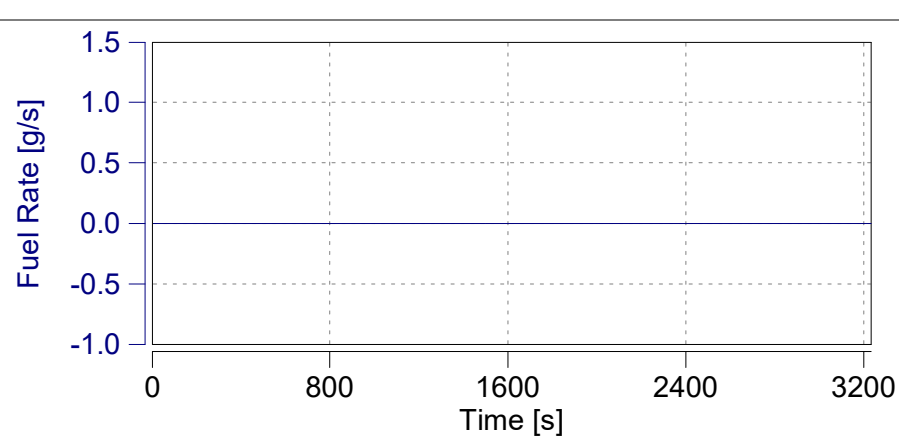
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



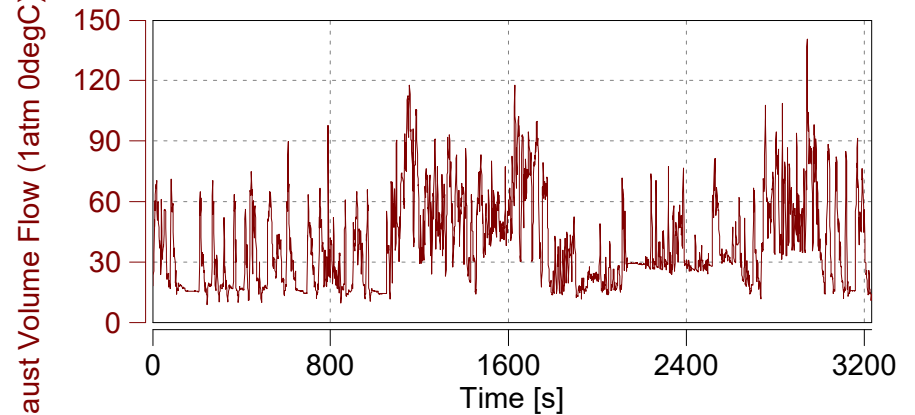
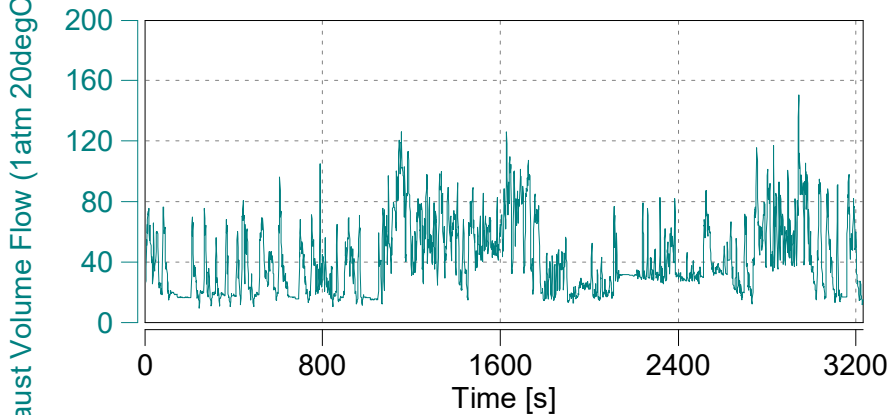
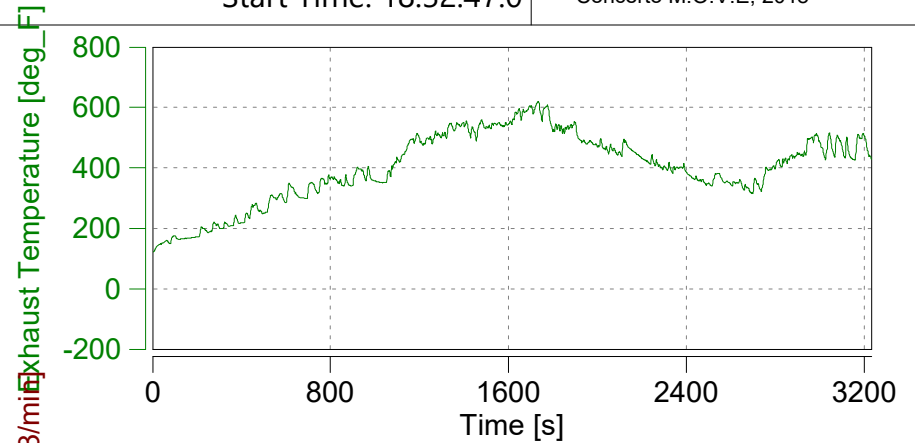
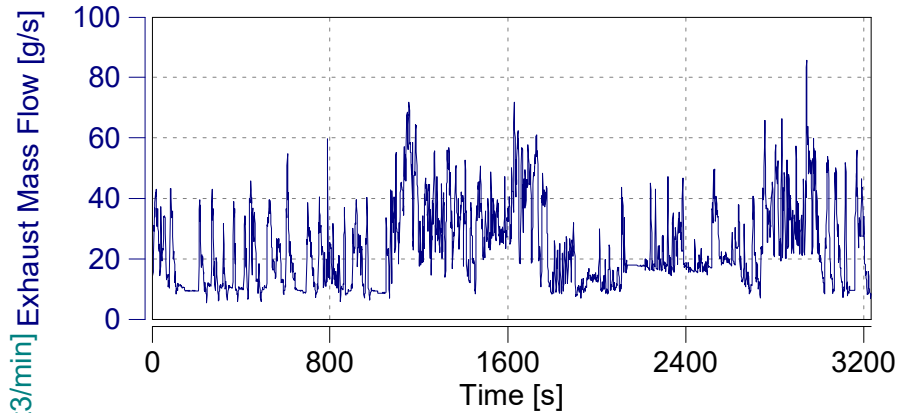
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



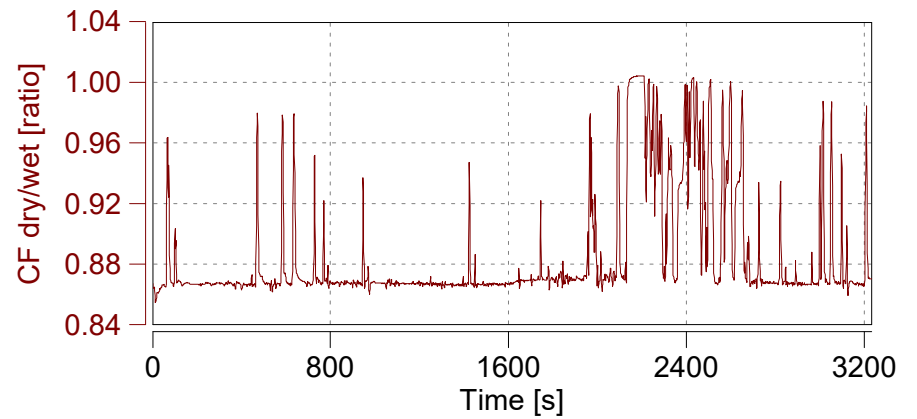
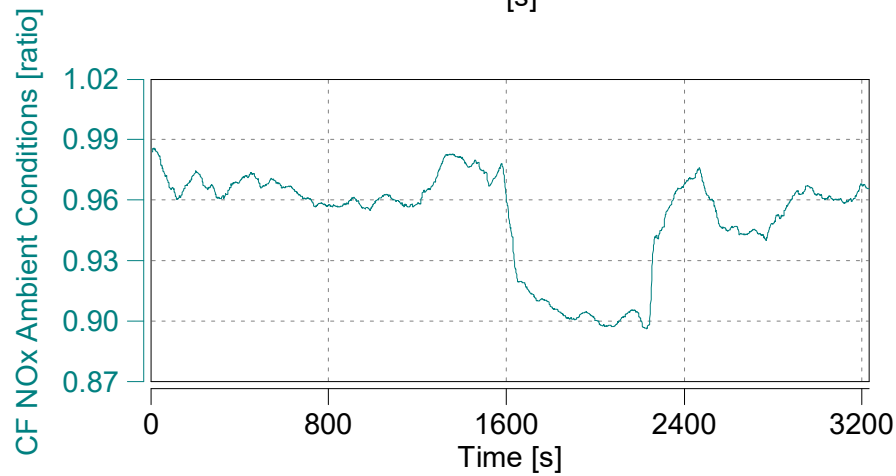
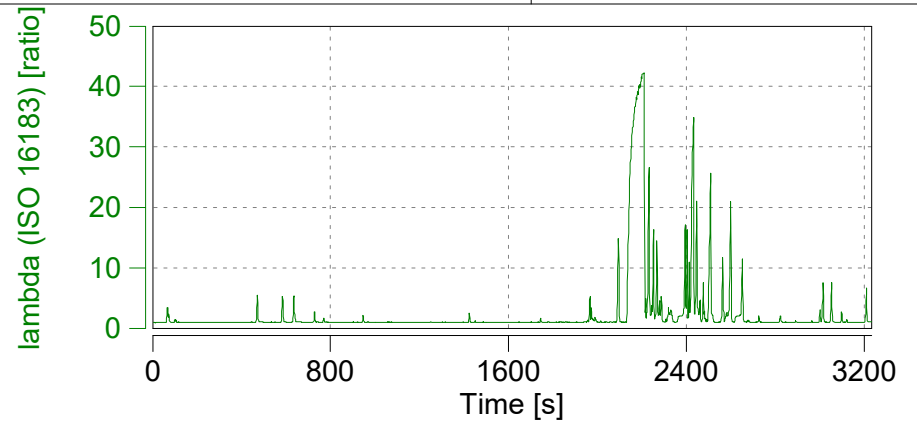
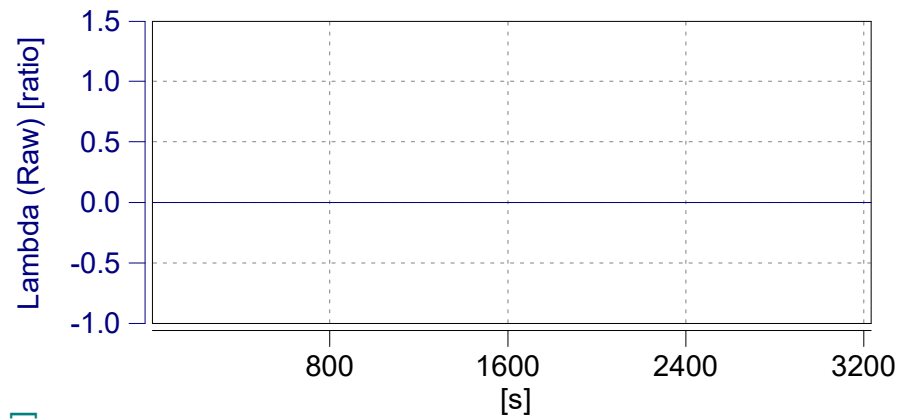
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



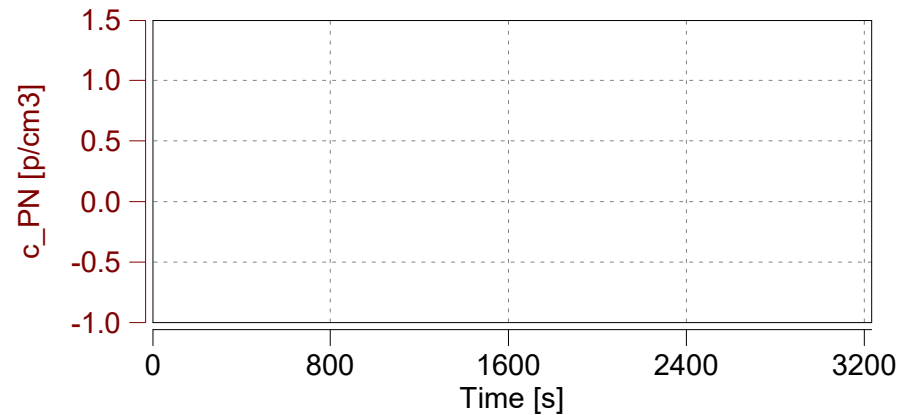
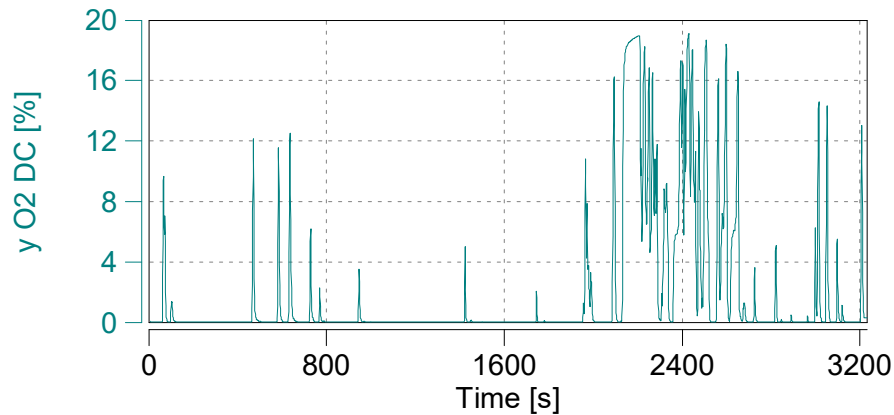
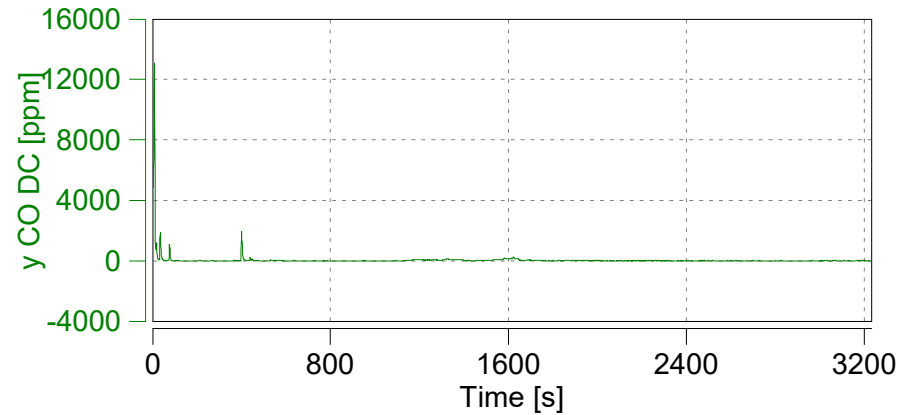
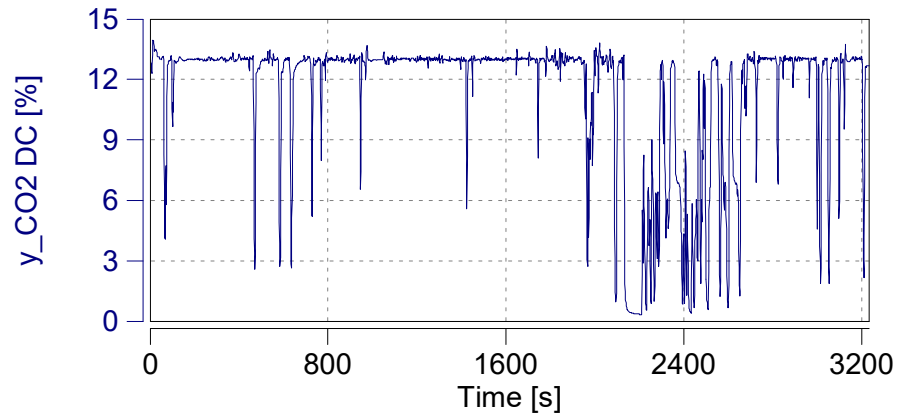
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



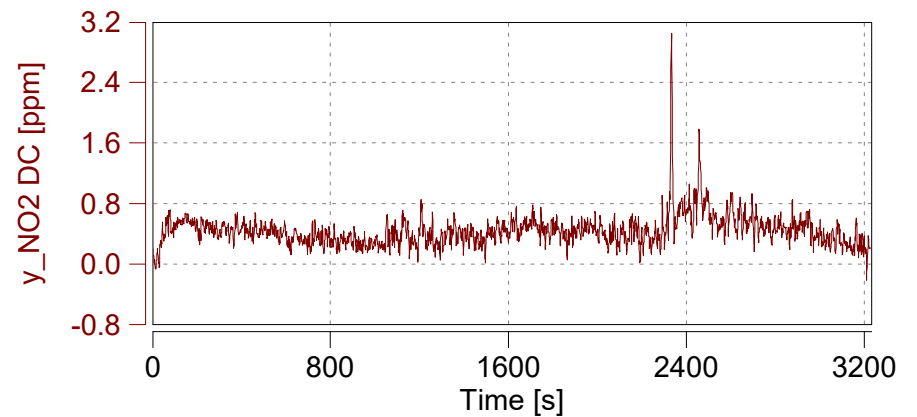
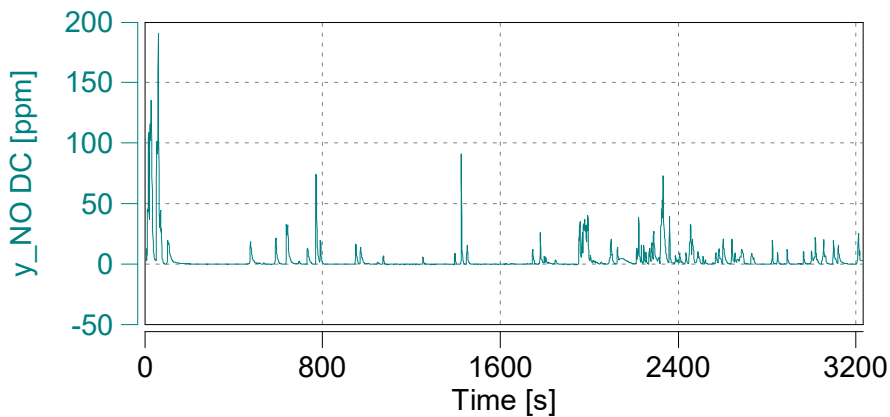
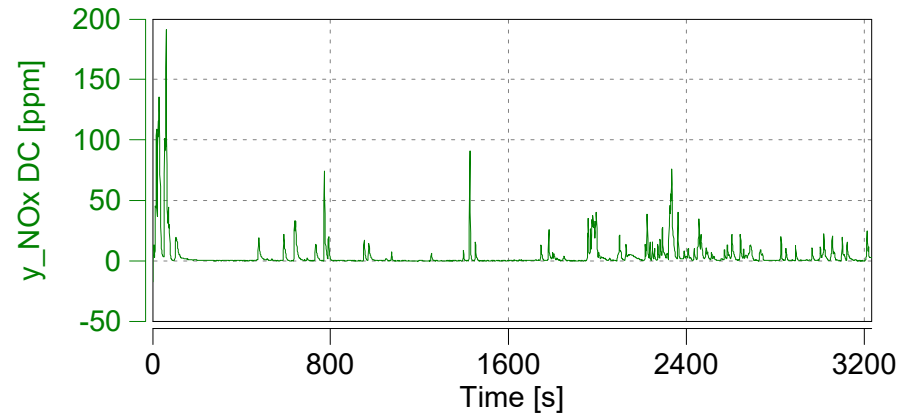
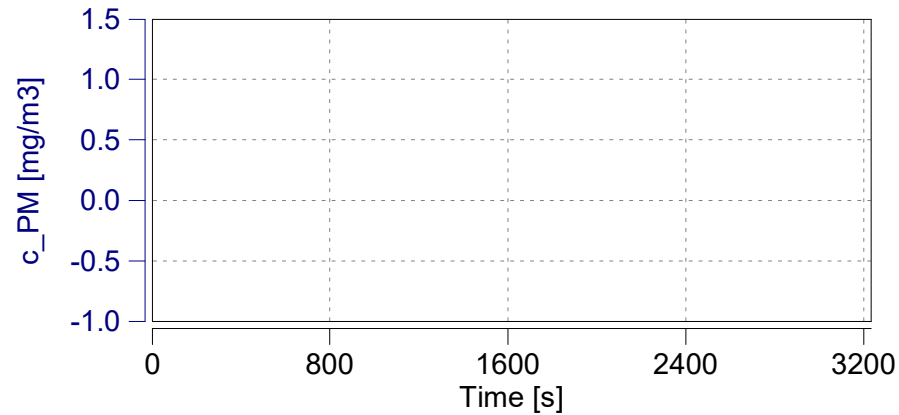
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



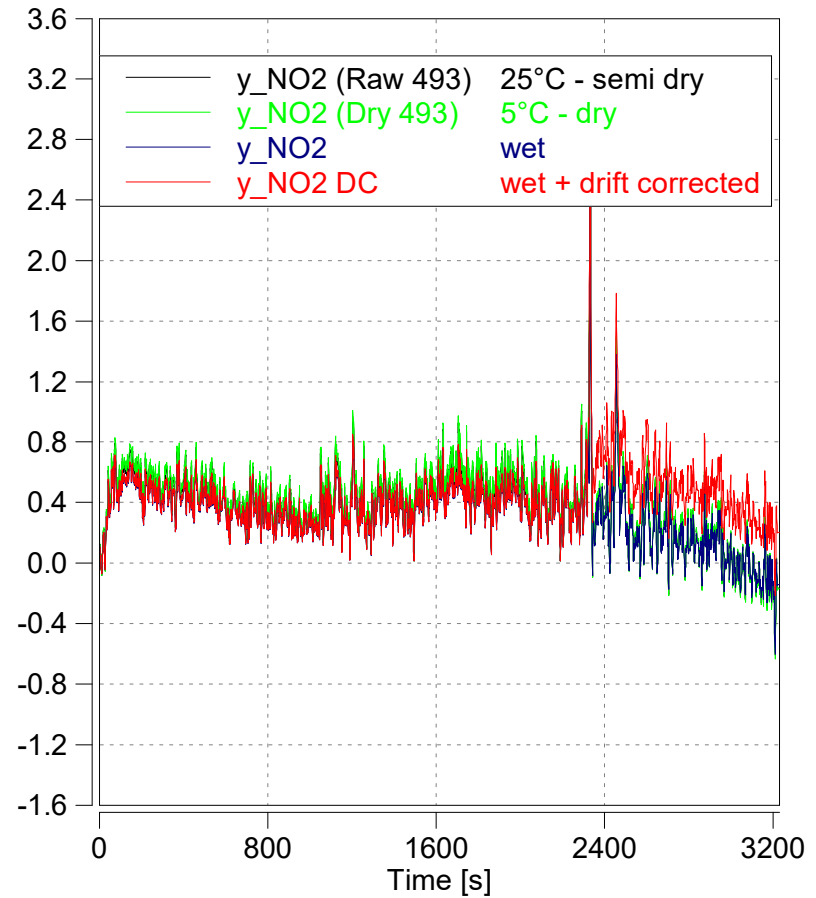
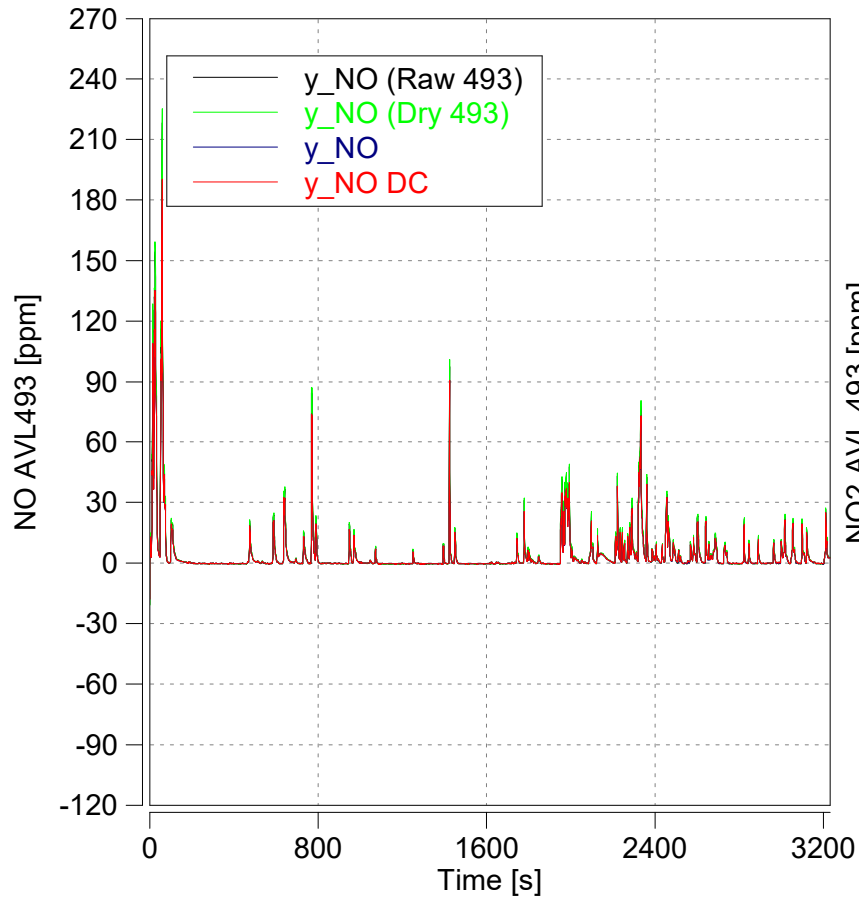
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

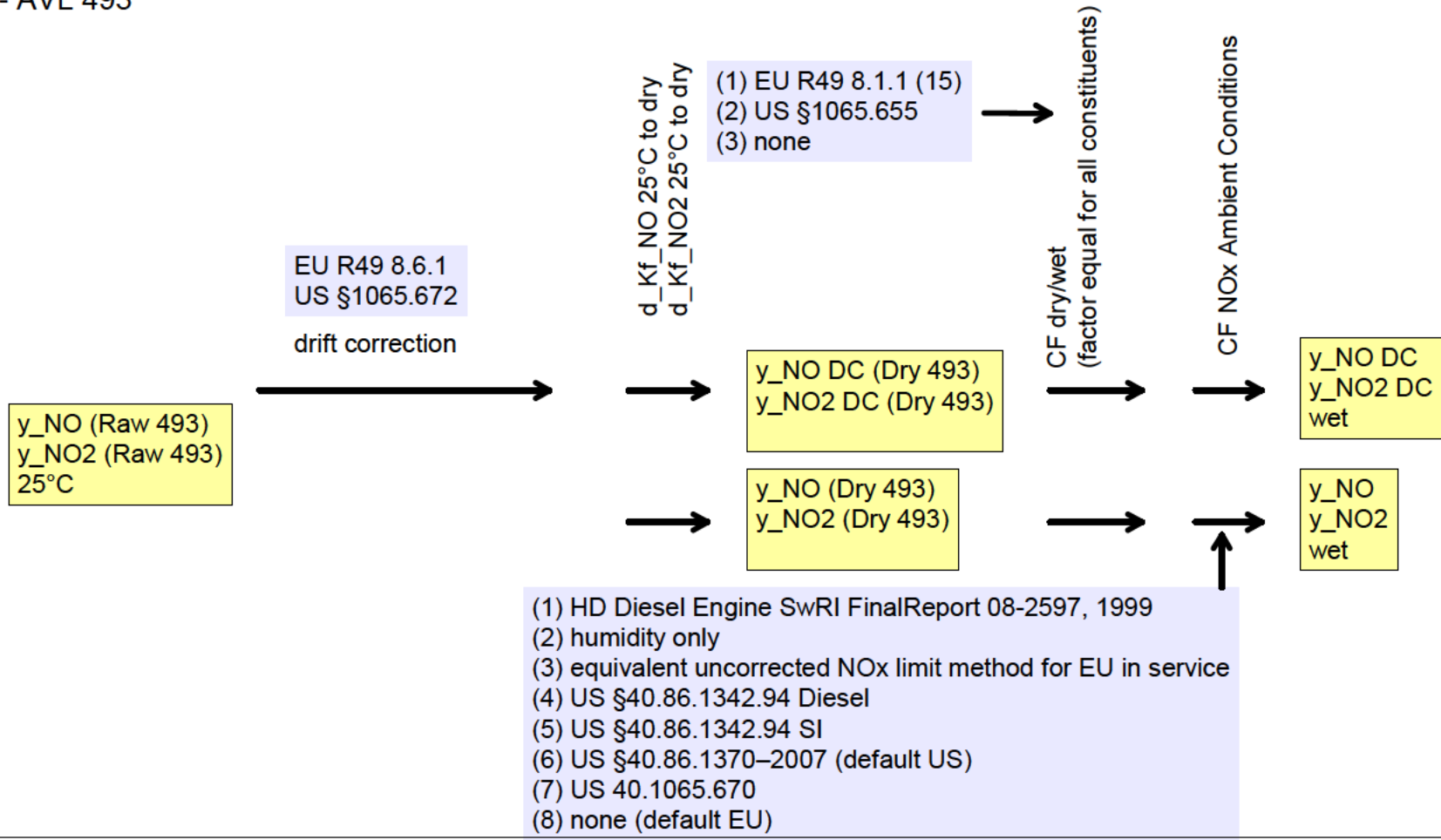


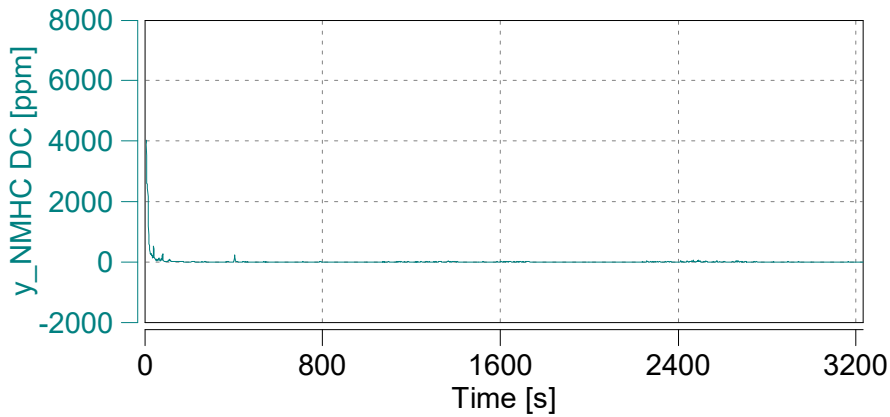
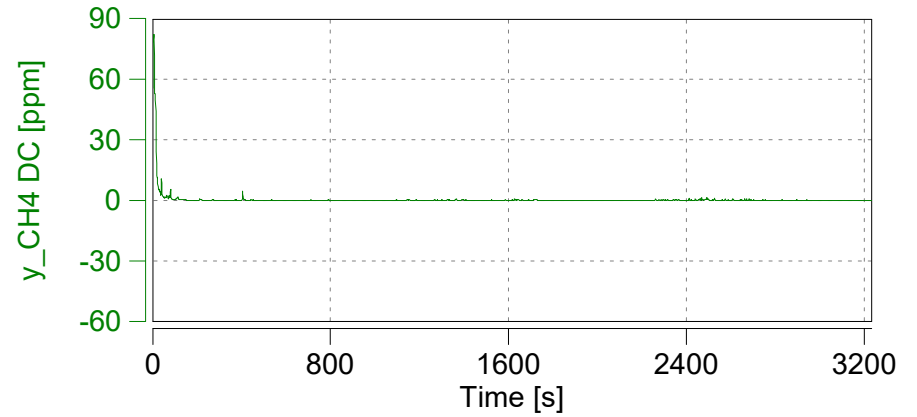
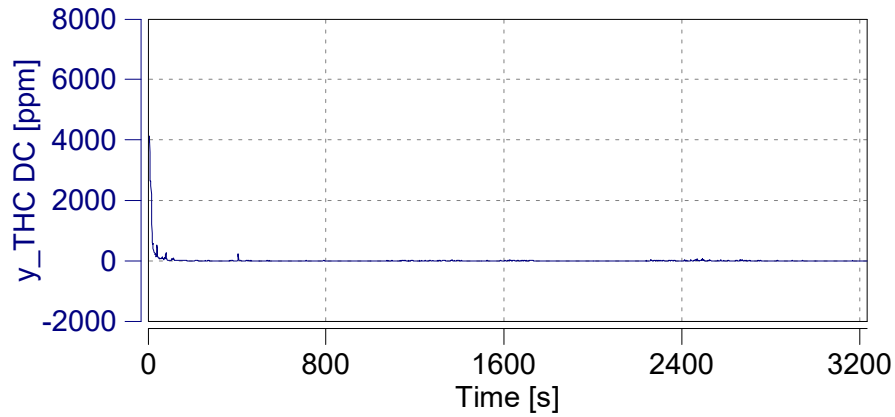
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



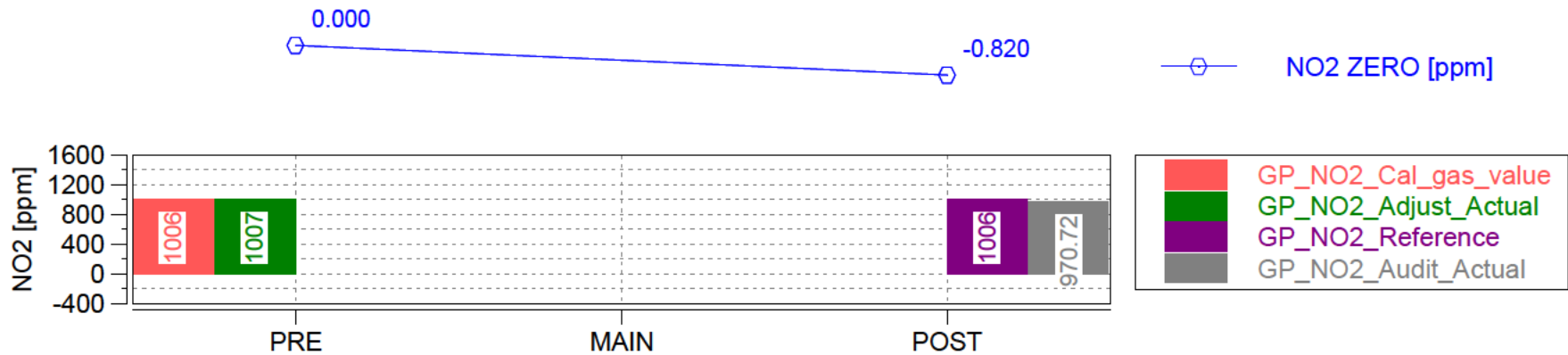
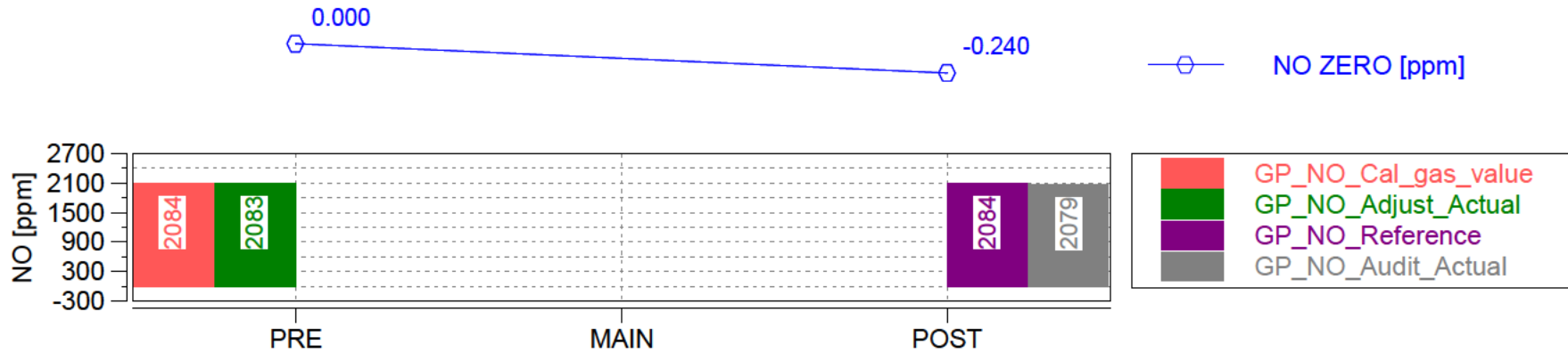
NOx - AVL 493





Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

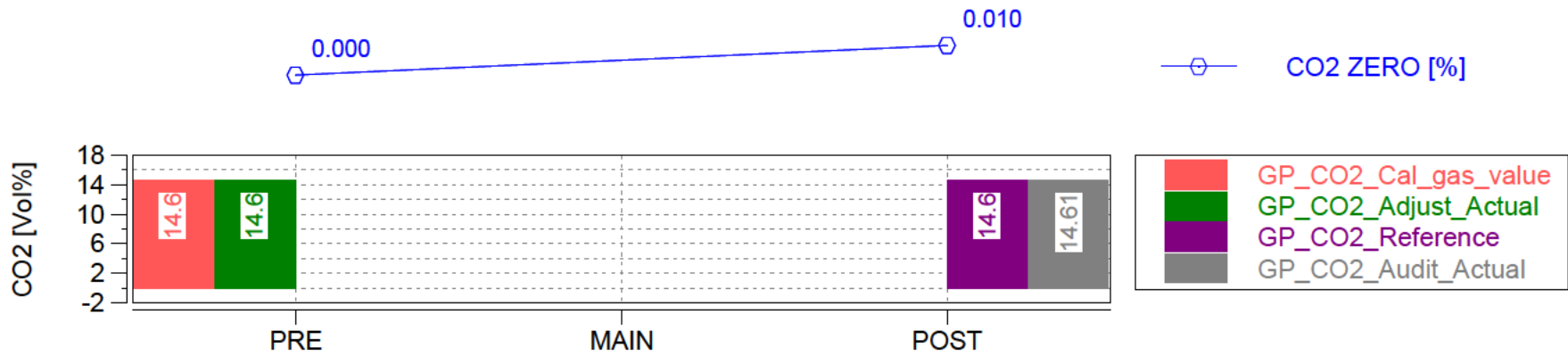
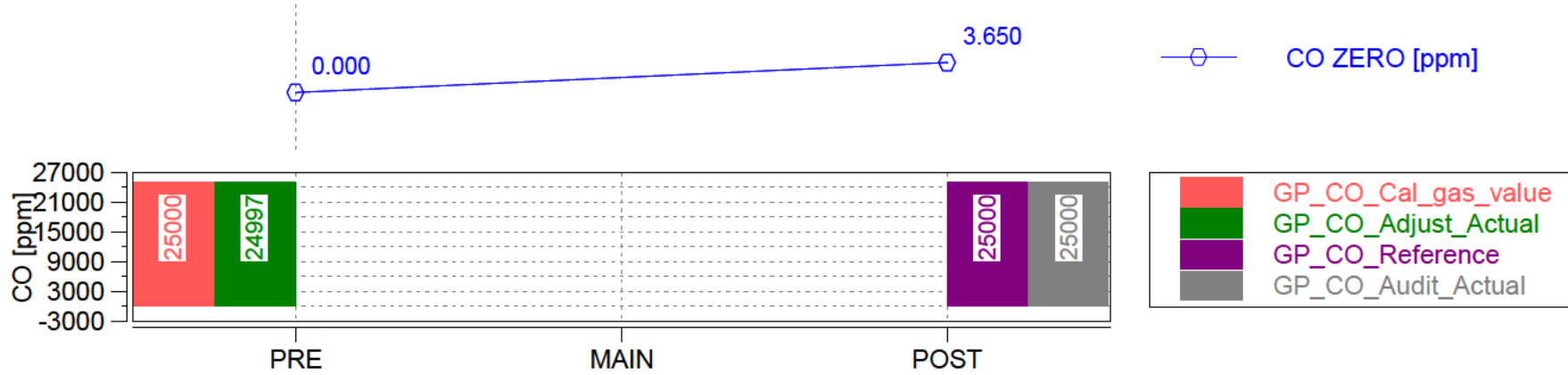
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Vehicle: R8 / 5.2 L

Engine: /

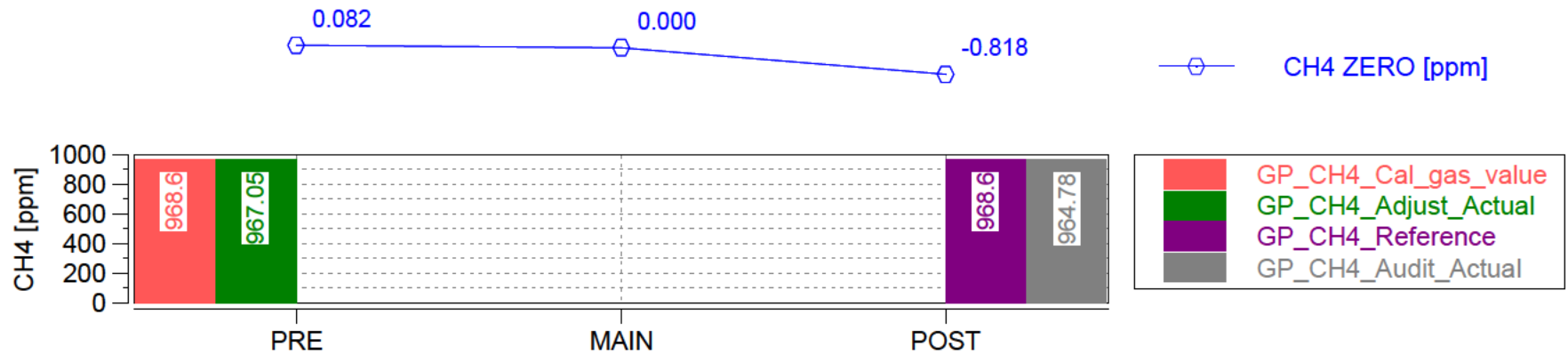
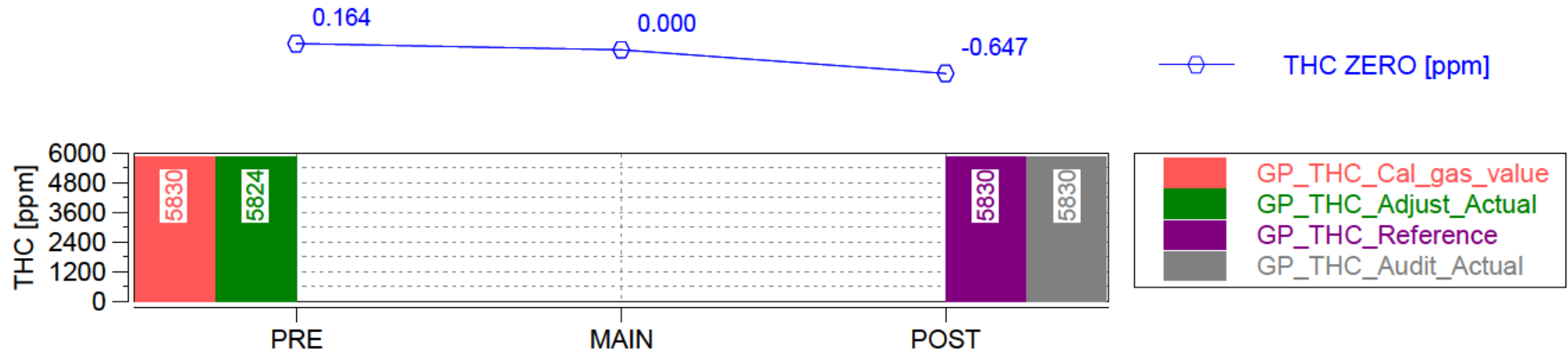
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City
Page: Trip Summary

'City'
Start Date: 08/05/2019
Start Time: 21:52:46.0



Trip Duration	3115.00	s	ave THC	0.07722	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3115.00	s	ave NMHC	0.07568	ppm	BS CO	n/a	g/hphr
Trip Distance	16.13	mi	ave CH4	0.00154	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	16.13	mi	ave CO	74.06563	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	11.74517	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	6.01860	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.41	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.38	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	0.85	gall	tot THC	0.00315	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	0.84	gall	tot NMHC	0.00291	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00007	g	DS CO2	449.57493	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	4.45661	g	DS CO	0.27625	g/mi
Trip Fuel Economy EU (ac)	18.93	mpg_US	tot CO2	7252.81411	g	DS THC	0.00020	g/mi
Trip Fuel Economy US (ac)	19.14	mpg_US	tot NO (d)	0.18059	g	DS NMHC	0.00018	g/mi
Trip Av. Eng. Speed	1088.75	rpm	tot NO2	0.01574	g	DS CH4	0.00000	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.19633	g	DS NO (d)	0.01119	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00098	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01217	g/mi
Trip Exhaust Mass	38.46	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	70.31	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	71.95	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	18.64592	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	24.52648	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018

Trip Duration	3115.00	s	ave THC DC	0.07399	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3115.00	s	ave NMHC DC	0.07251	ppm	BS CO DC	n/a	g/hphr
Trip Distance	16.13	mi	ave CH4 DC	0.00148	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	16.13	mi	ave CO DC	74.03369	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	11.74109	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	6.05149	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.41	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.38	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC DC	0.00305	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	0.85	gall	tot NMHC DC	0.00282	g			
Trip Fuel Cons. Volume US (ac)	0.84	gall	tot CH4 DC	0.00007	g	DS CO2 DC	449.42051	g/mi
			tot CO DC	4.45693	g	DS CO DC	0.27627	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	7250.32296	g	DS THC DC	0.00019	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.18026	g	DS NMHC DC	0.00017	g/mi
Trip Fuel Economy EU (ac)	18.93	mpg_US	tot NO2 DC	0.01775	g	DS CH4 DC	0.00000	g/mi
Trip Fuel Economy US (ac)	19.14	mpg_US	tot NOx DC	0.19802	g	DS NO DC (d)	0.01117	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00110	g/mi
Trip Av. Eng. Speed	1088.75	rpm	tot Soot meas	n/a	g	DS NOx DC	0.01227	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	38.46	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	70.31	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	71.95	%	Trip Av. Veh. Speed	18.64592	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	24.52648	%	FS NO DC (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Time Alignment Check

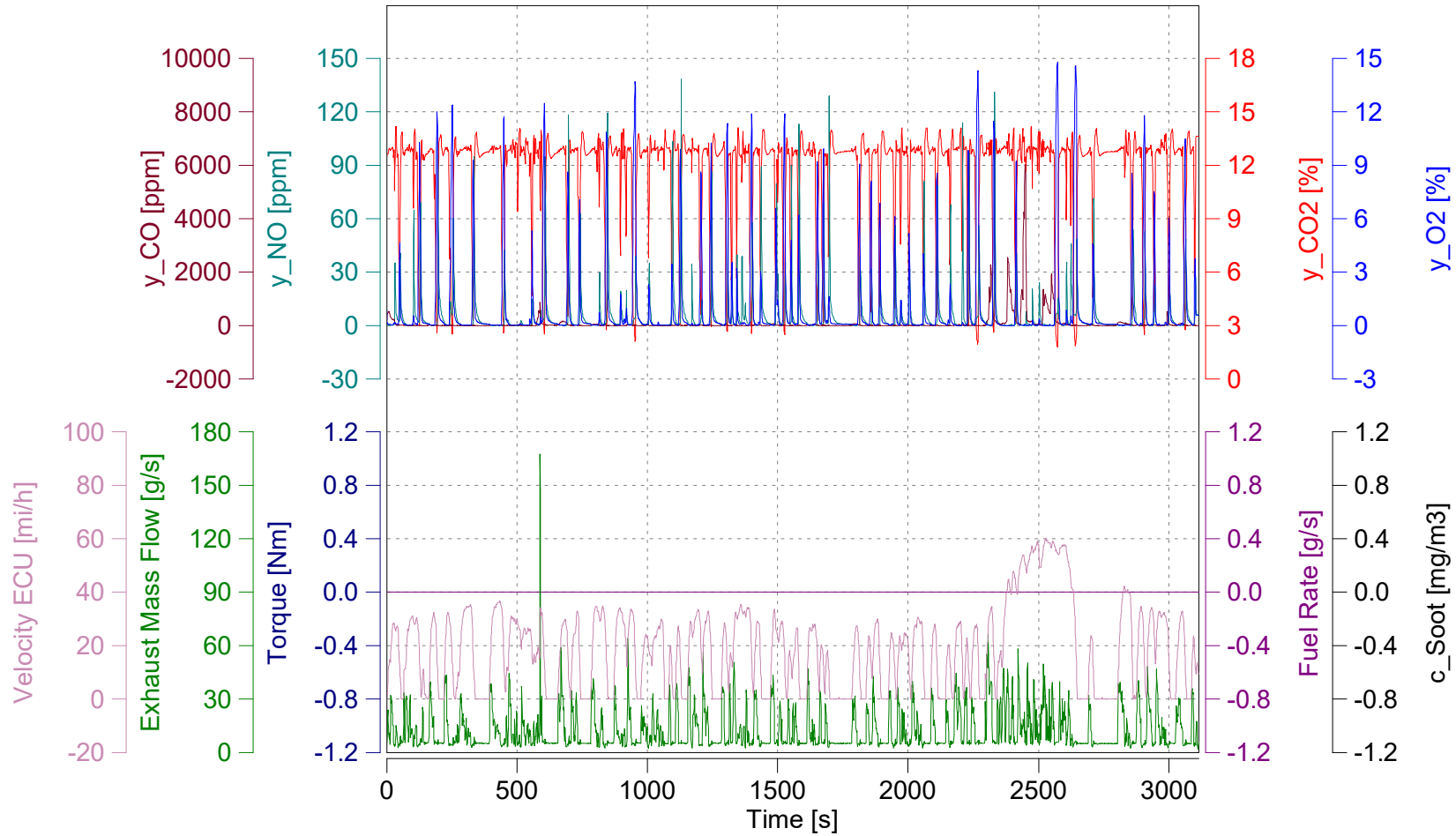
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

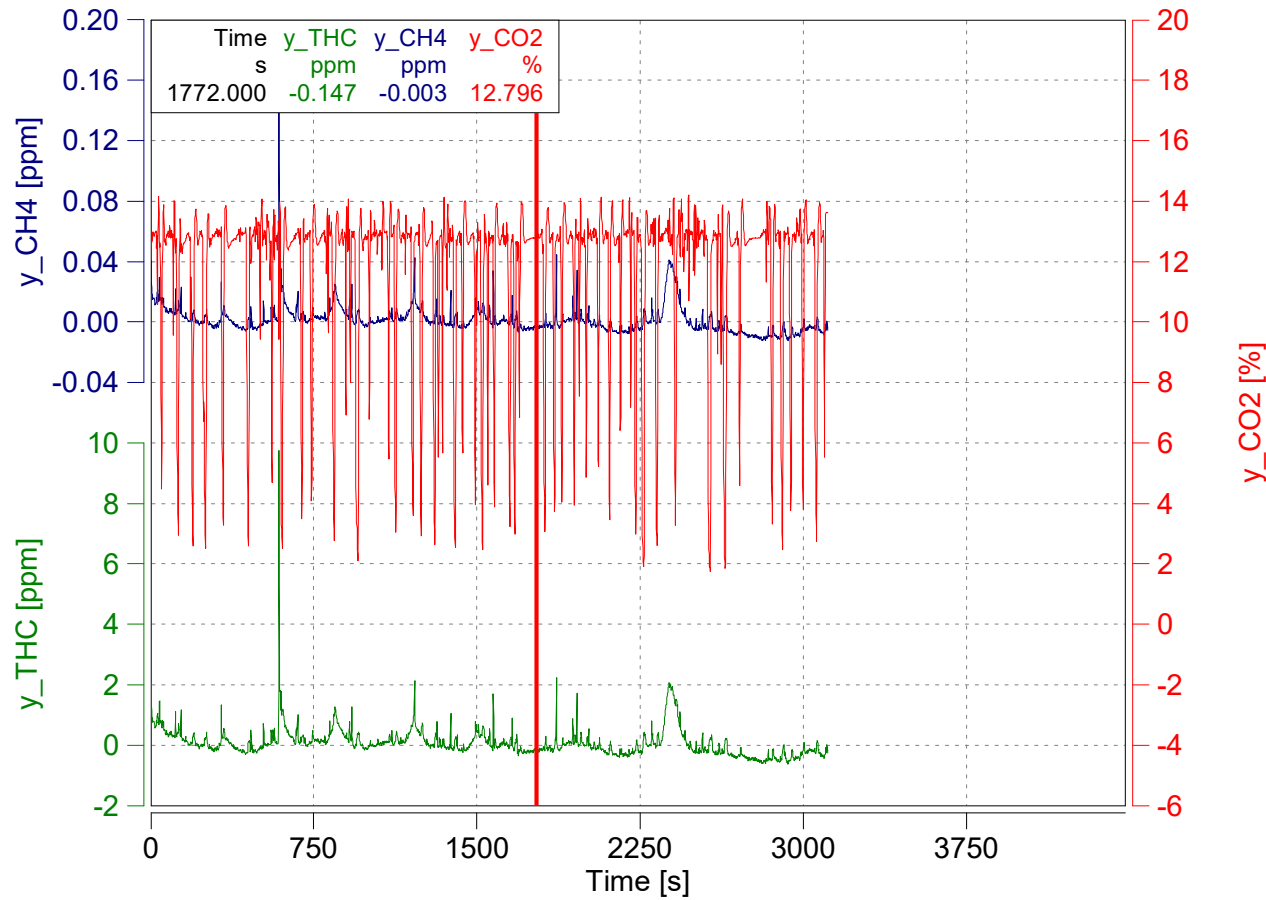
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Case: City

Page: Ambient Conditions

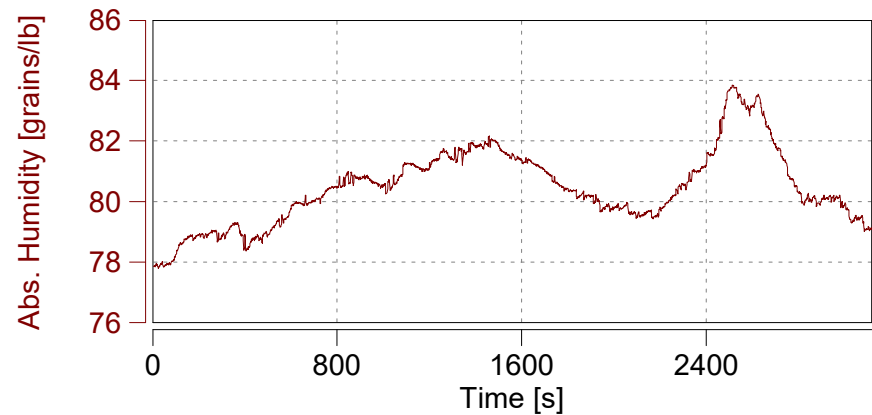
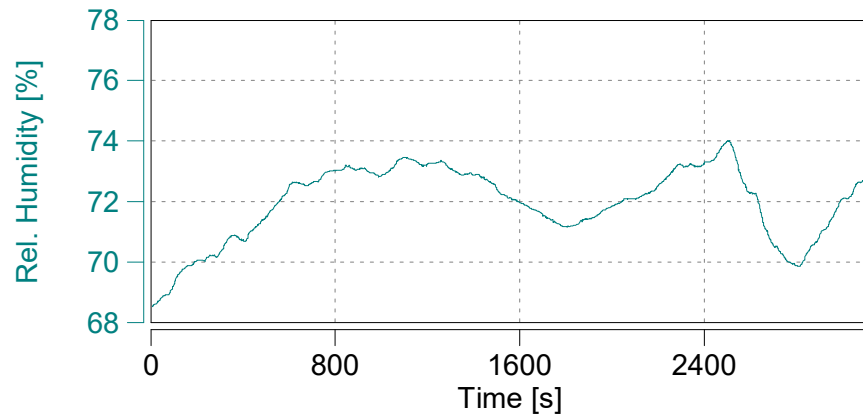
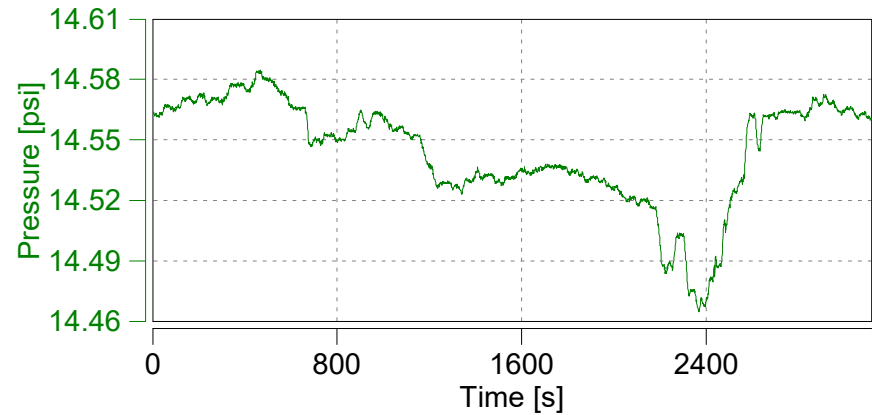
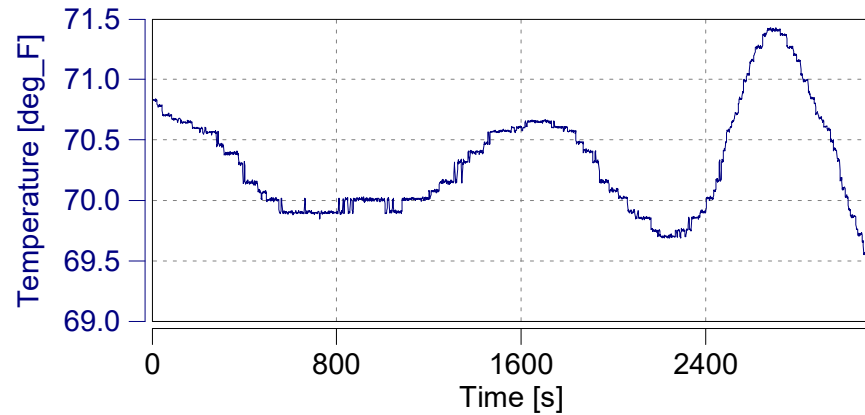
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

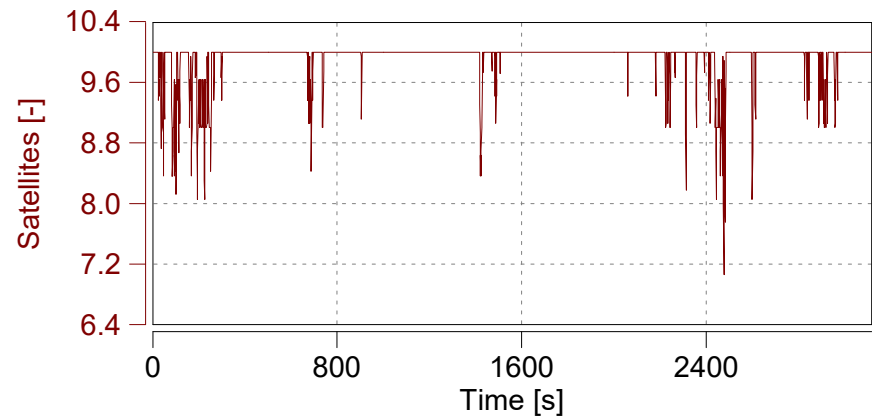
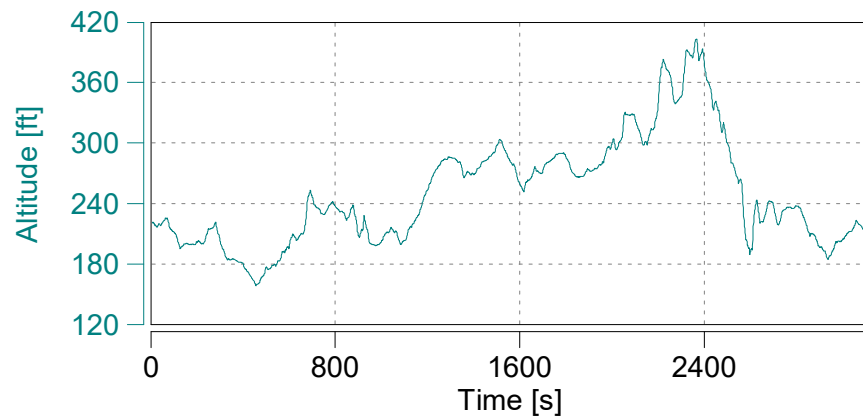
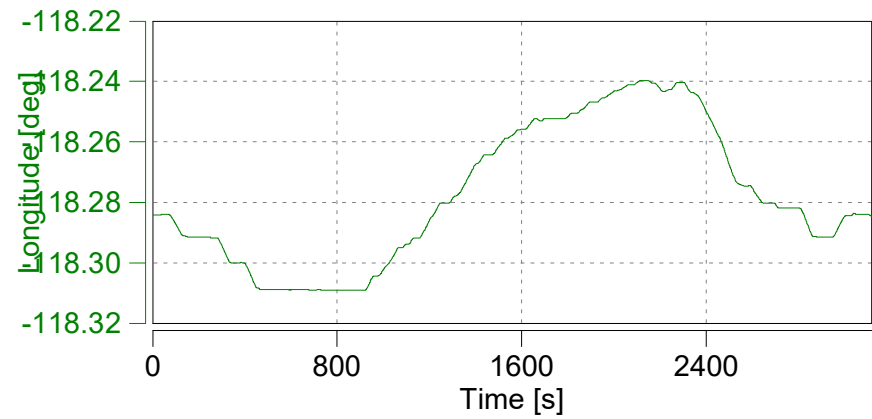
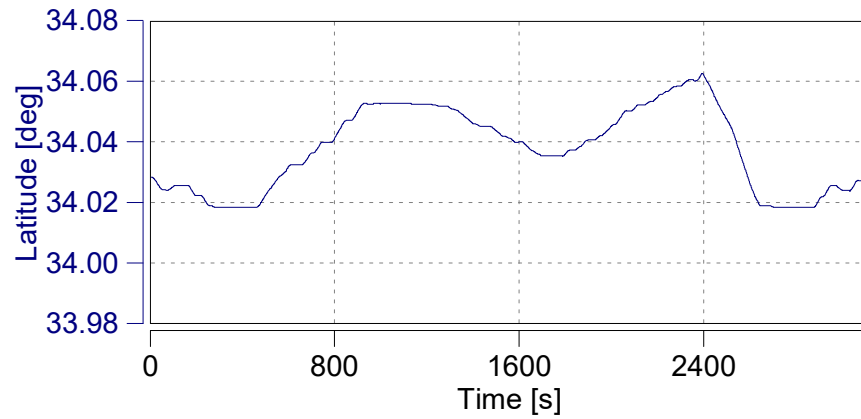
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (1)

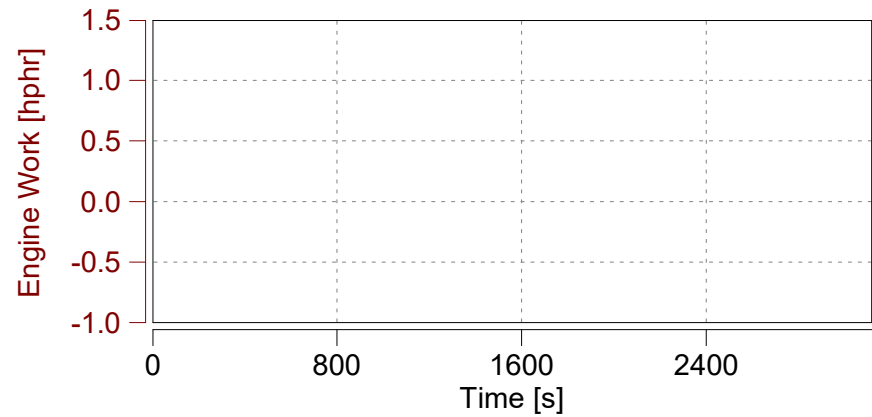
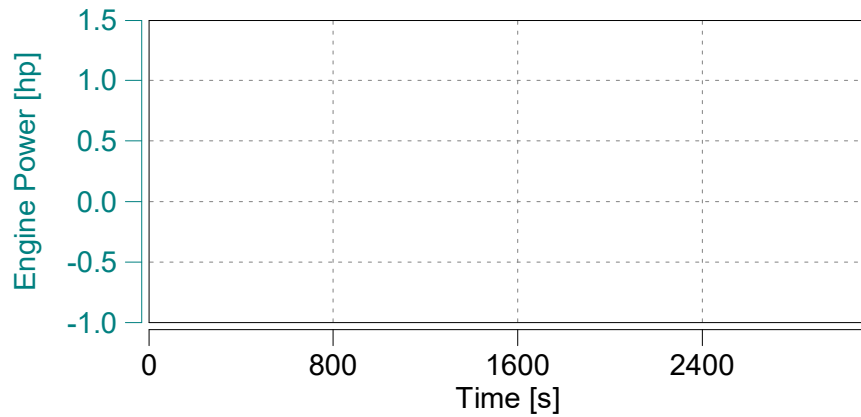
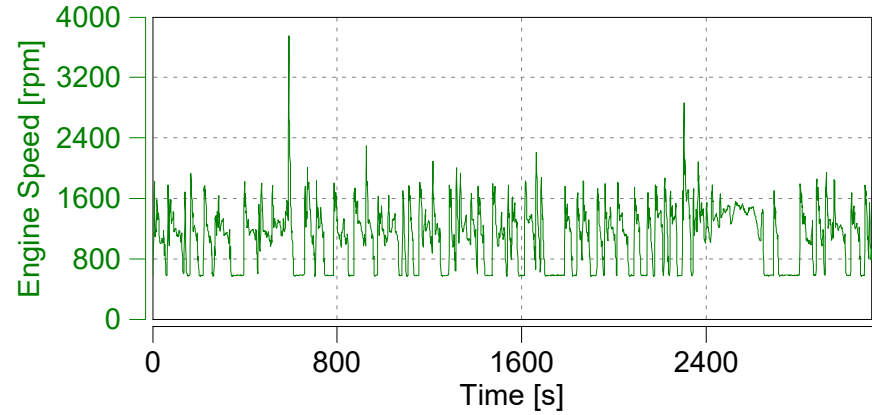
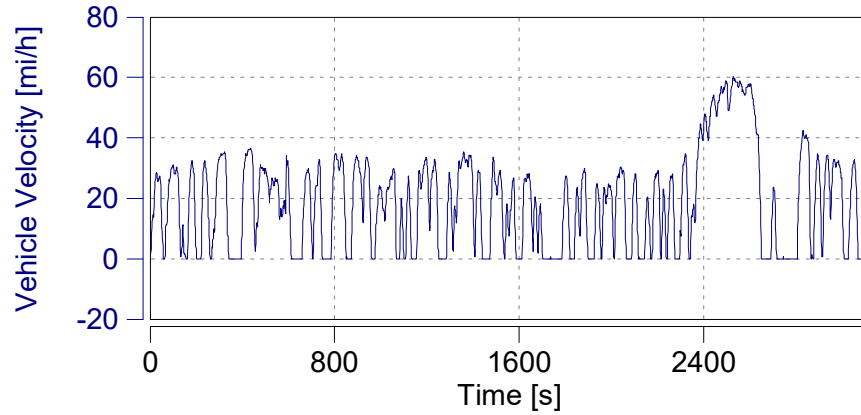
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

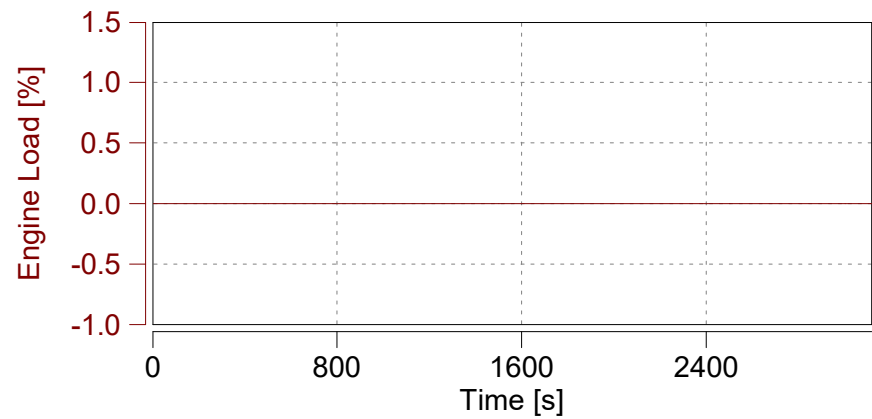
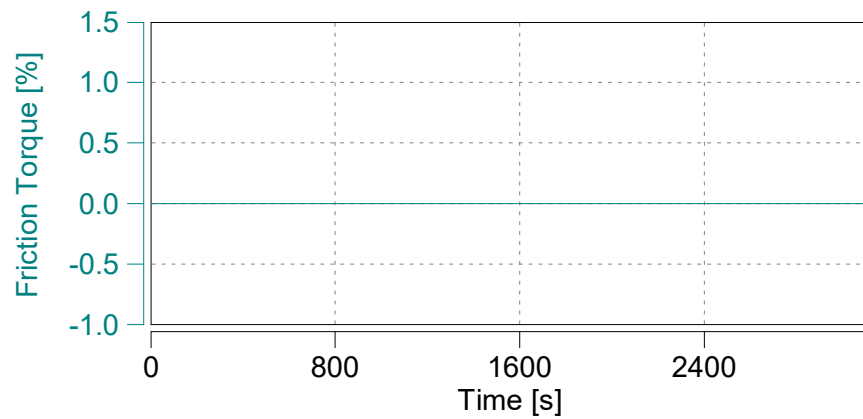
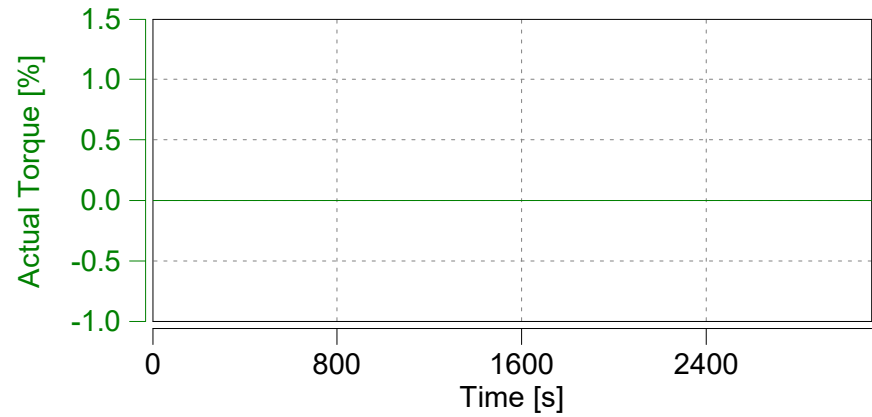
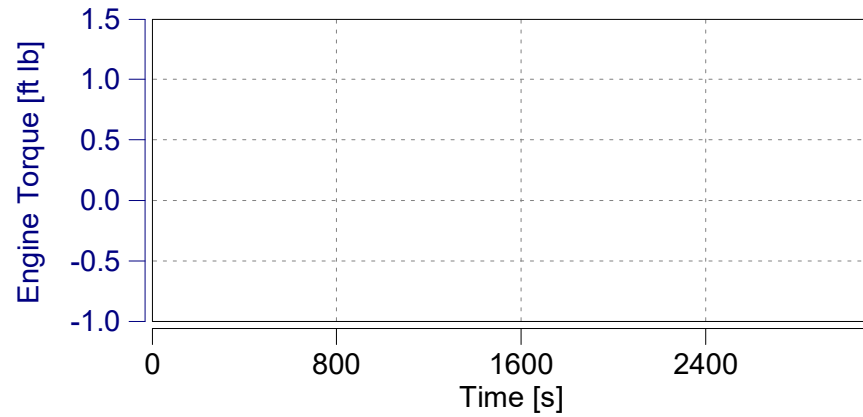
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (3)

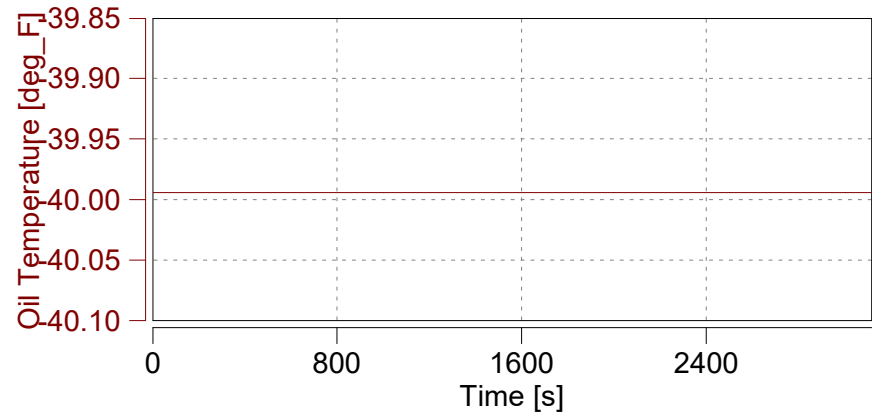
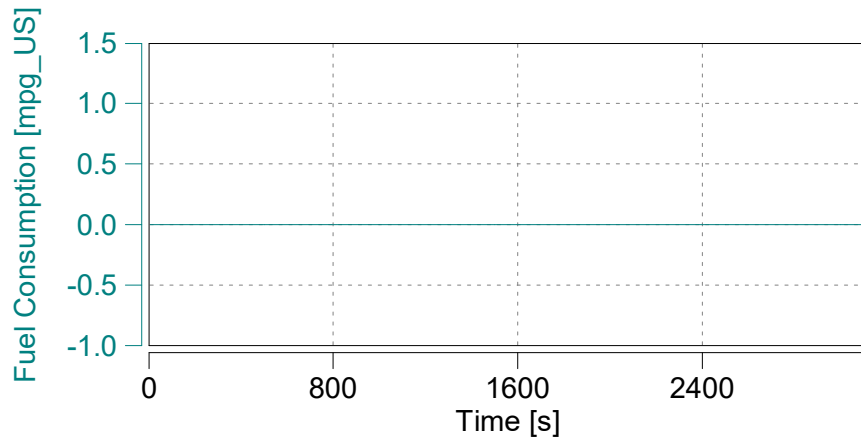
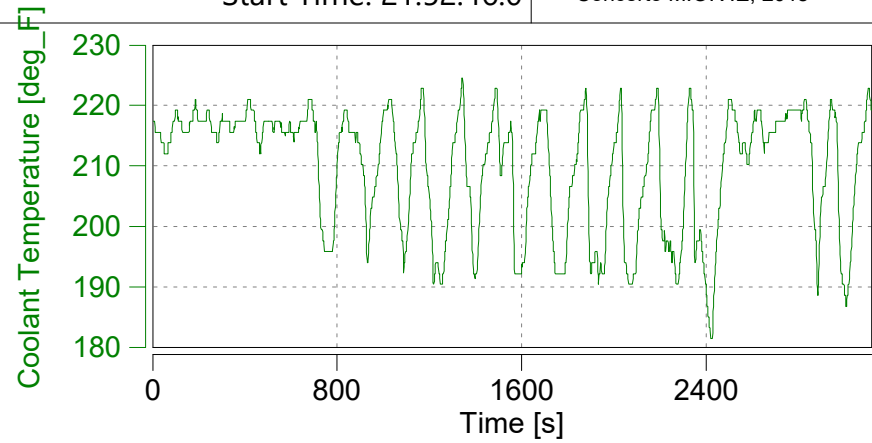
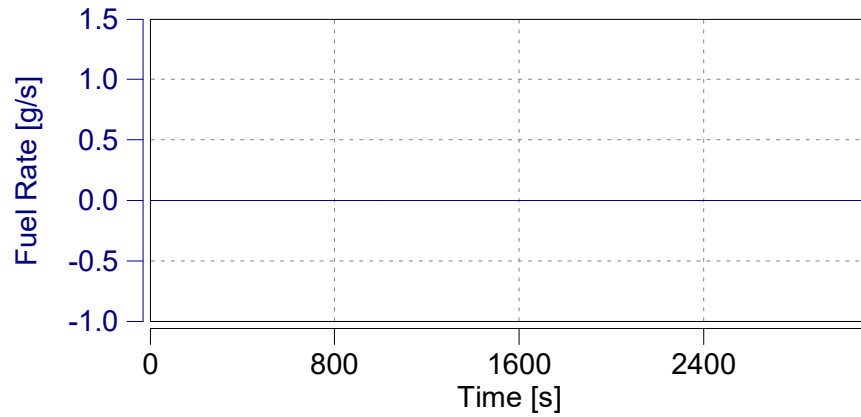
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

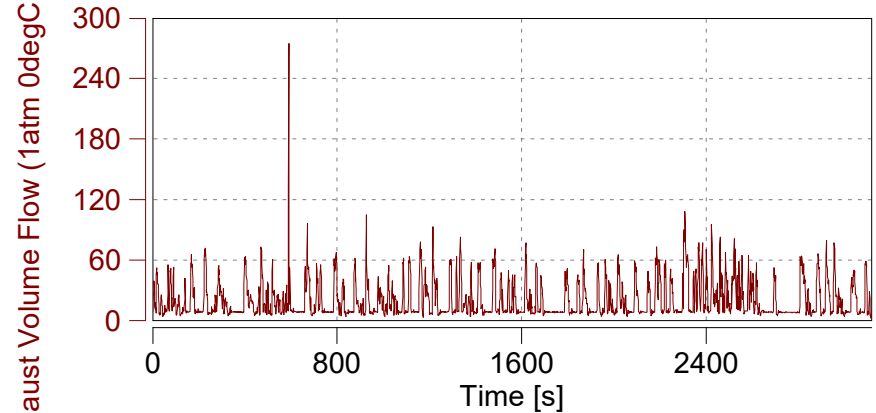
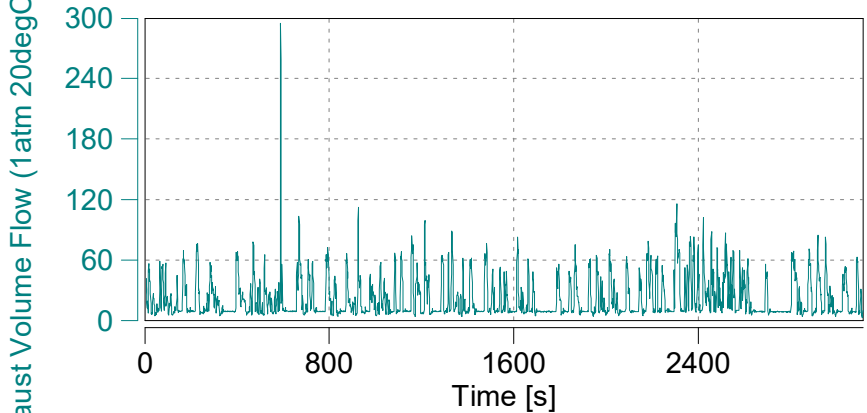
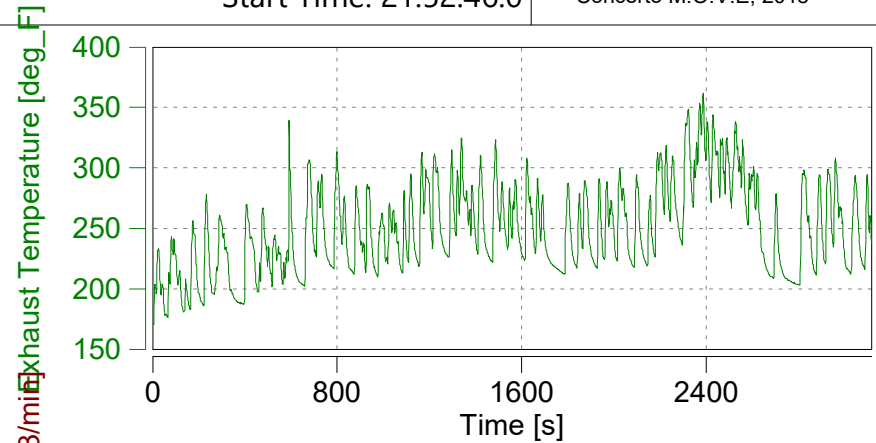
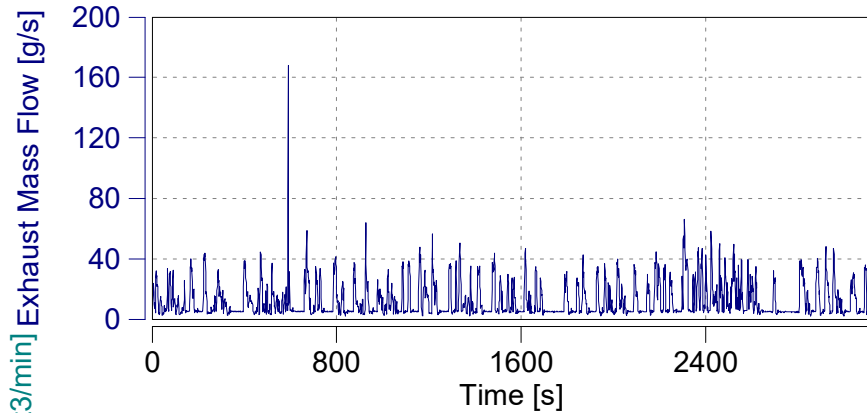
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (2)

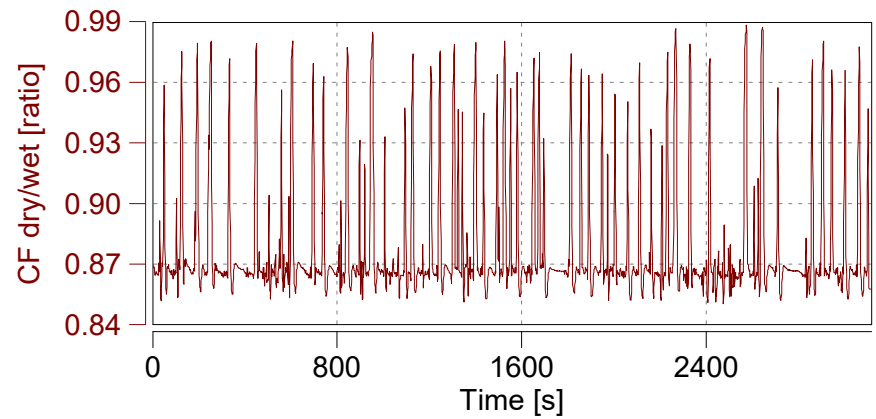
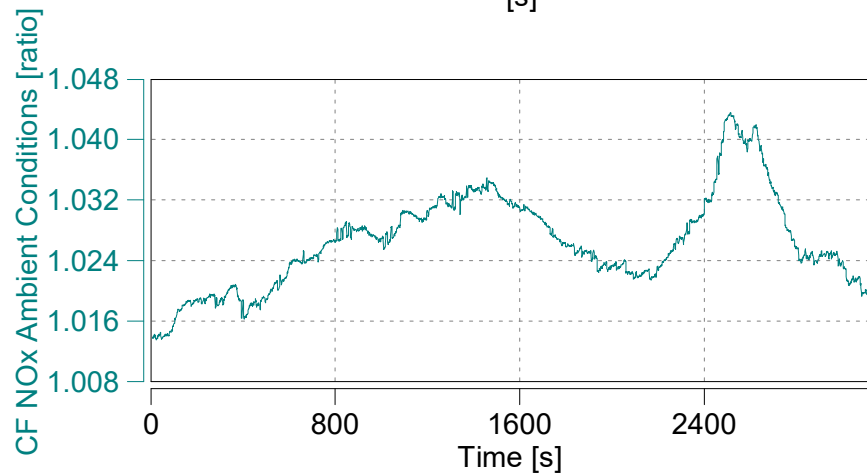
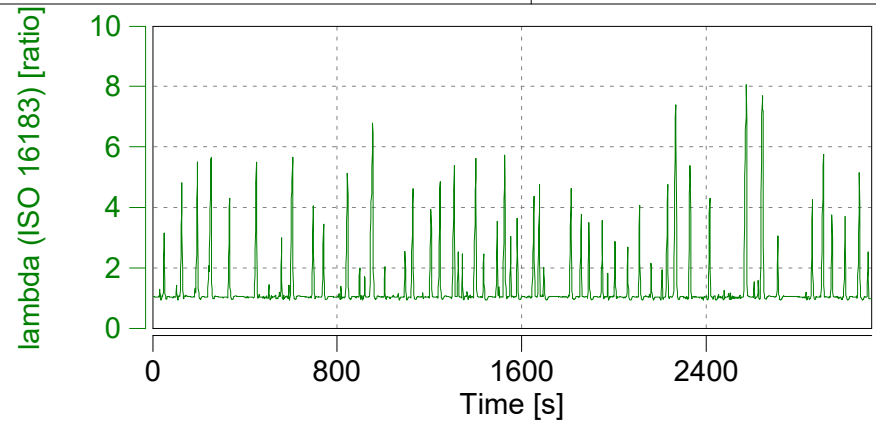
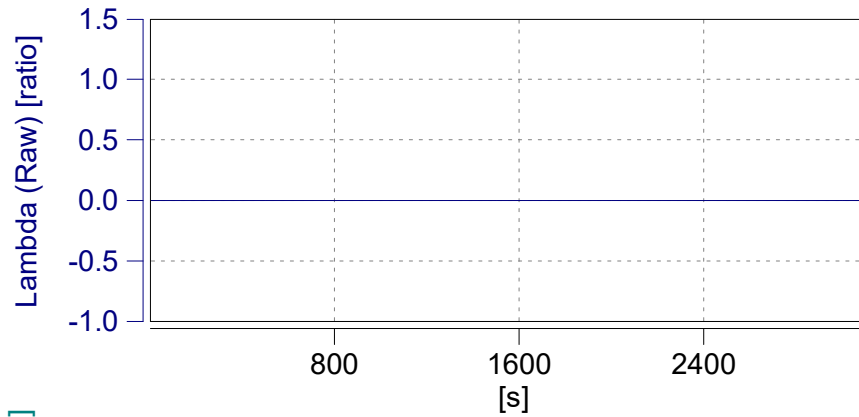
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

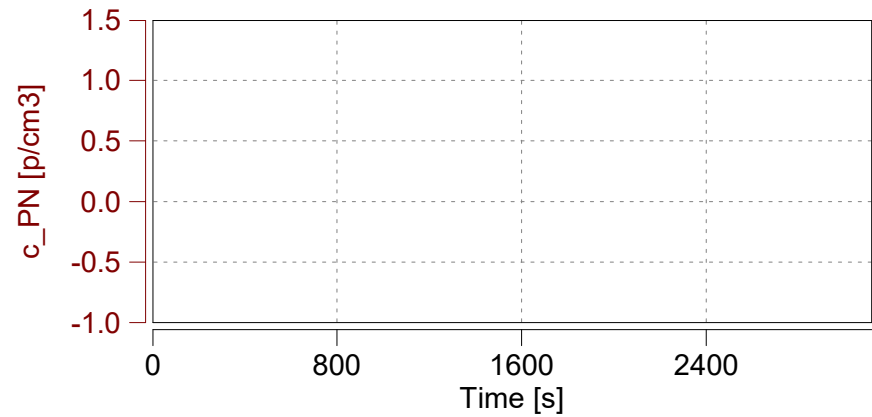
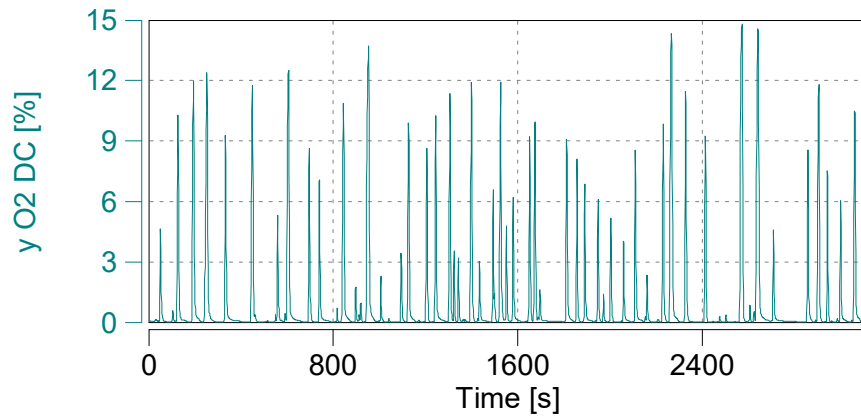
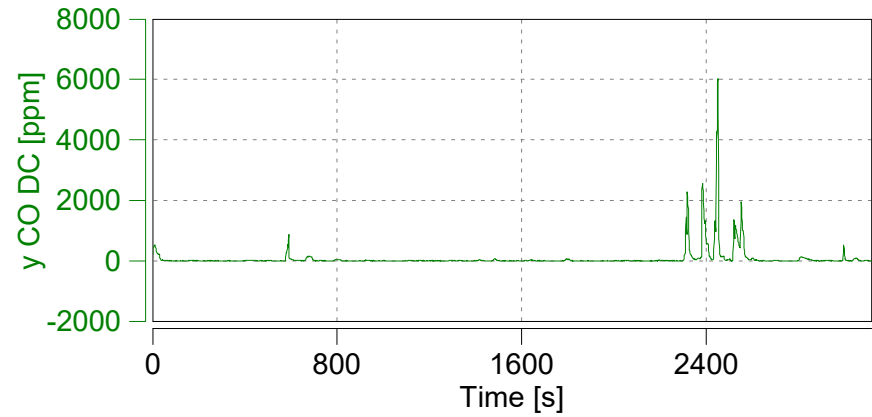
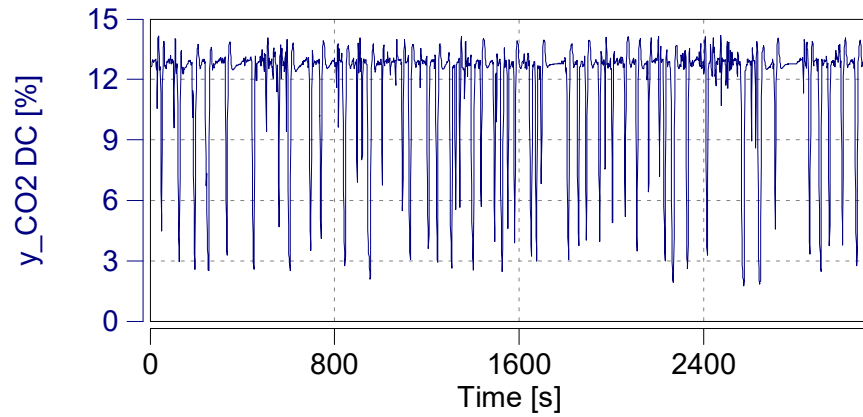
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

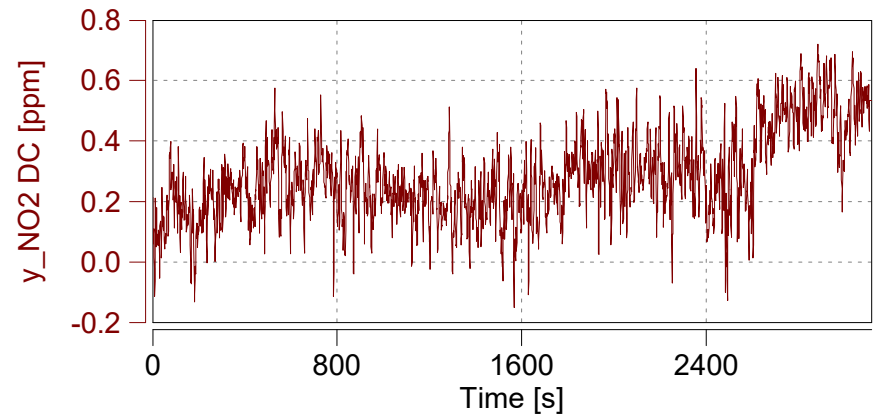
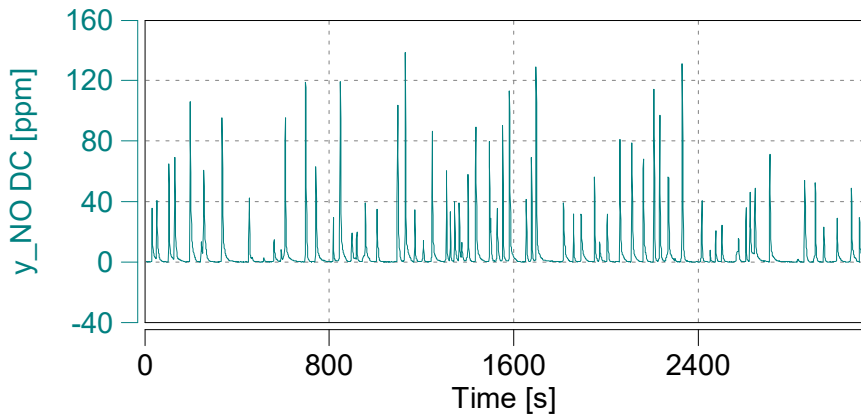
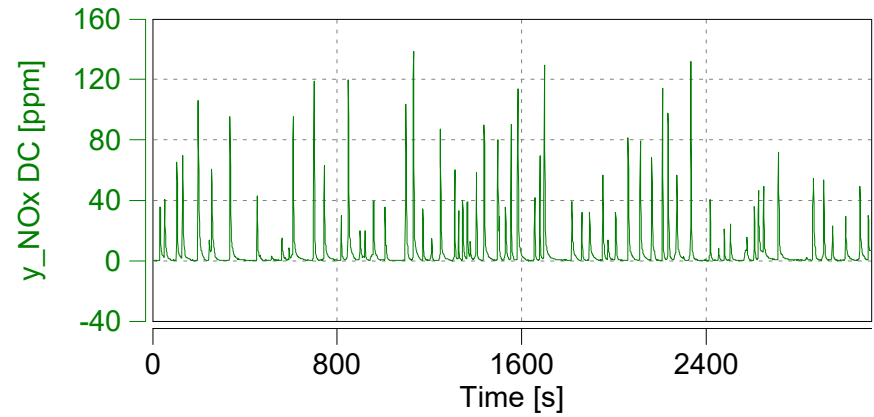
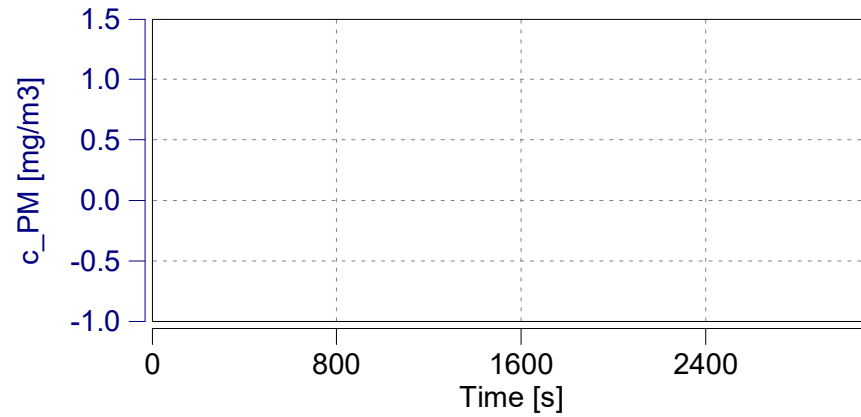
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0

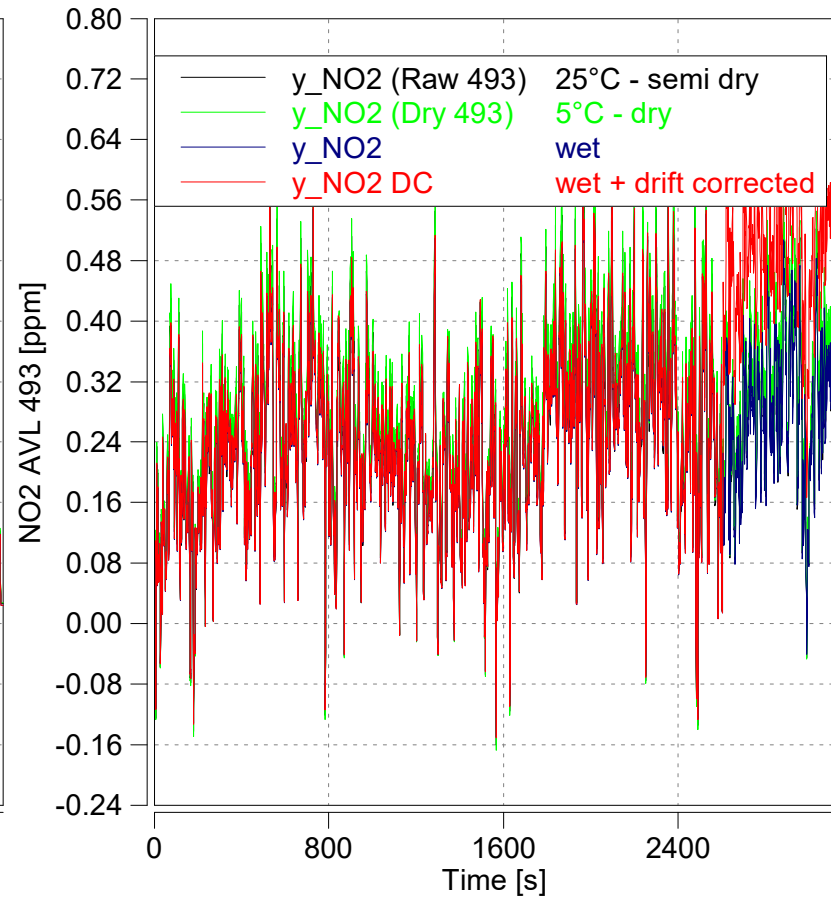
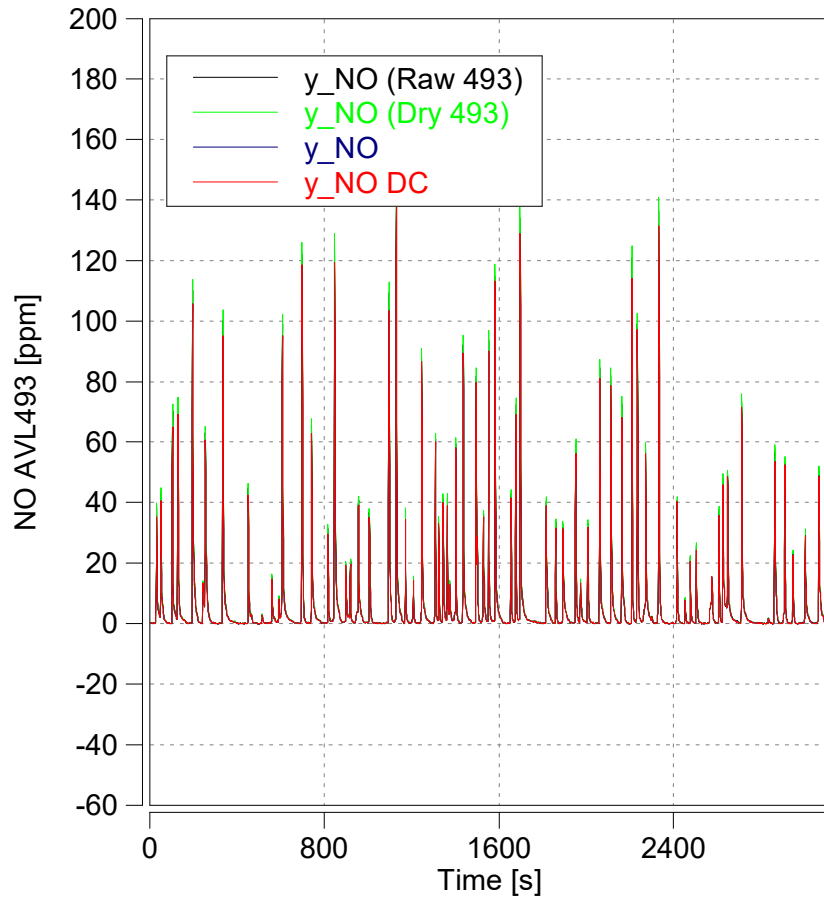


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

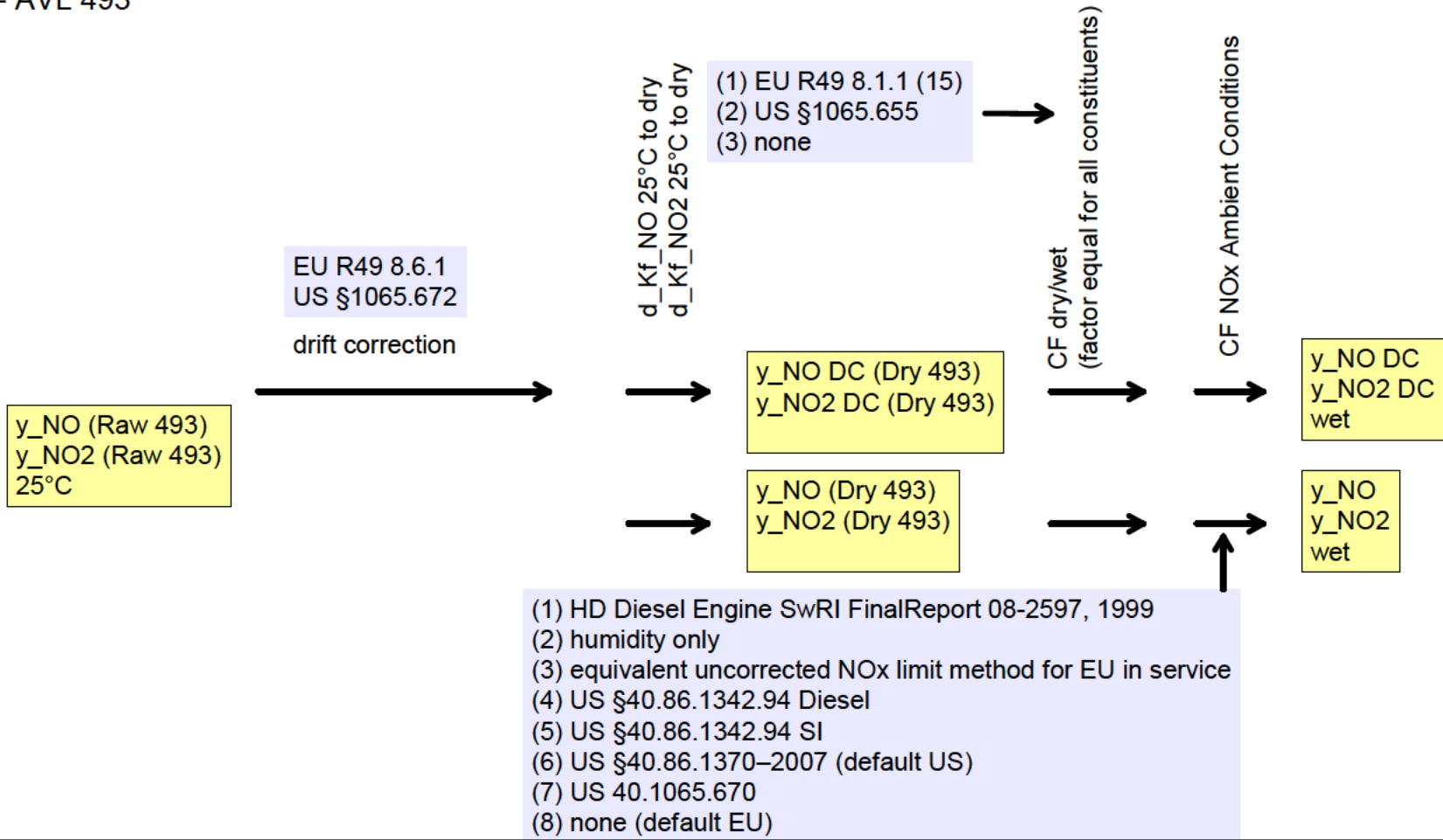


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

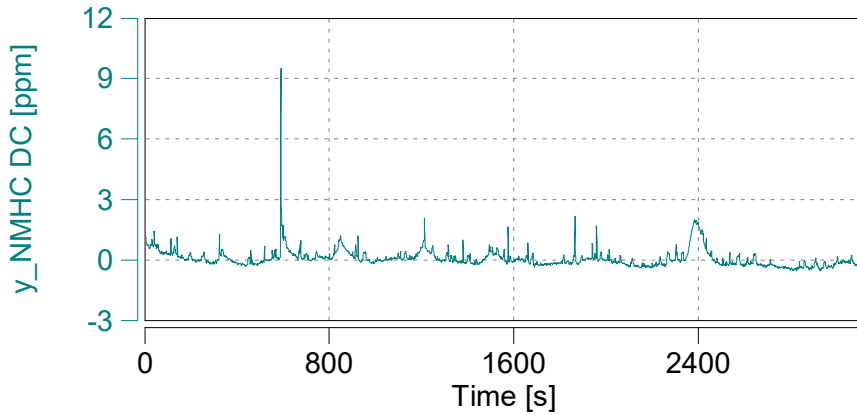
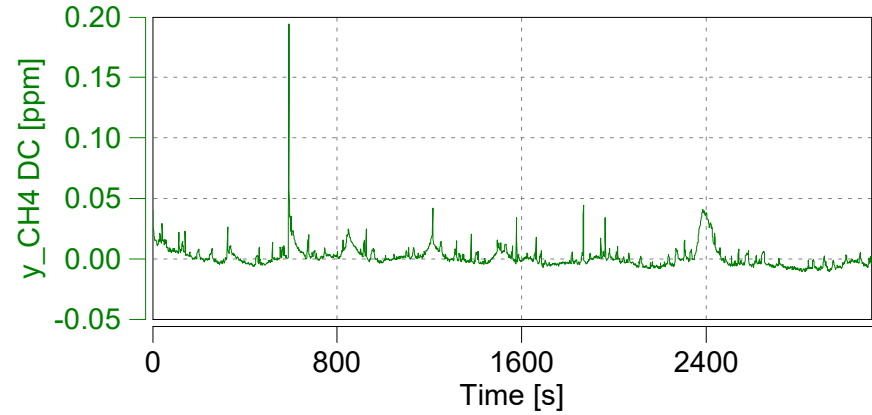
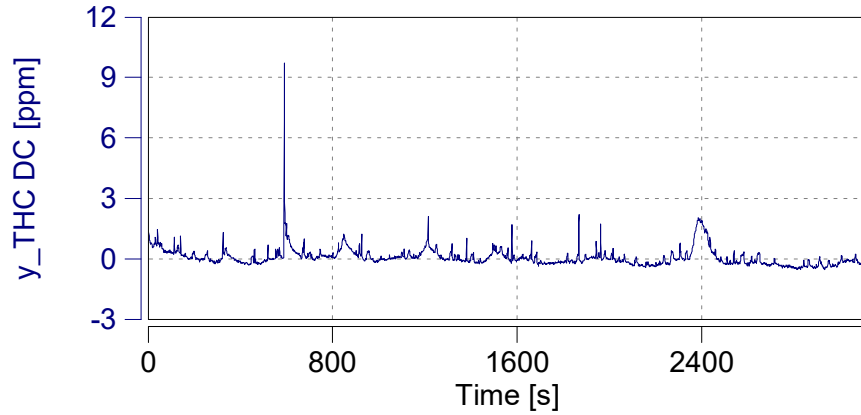
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: NO/NO2/NOx Zero - Span

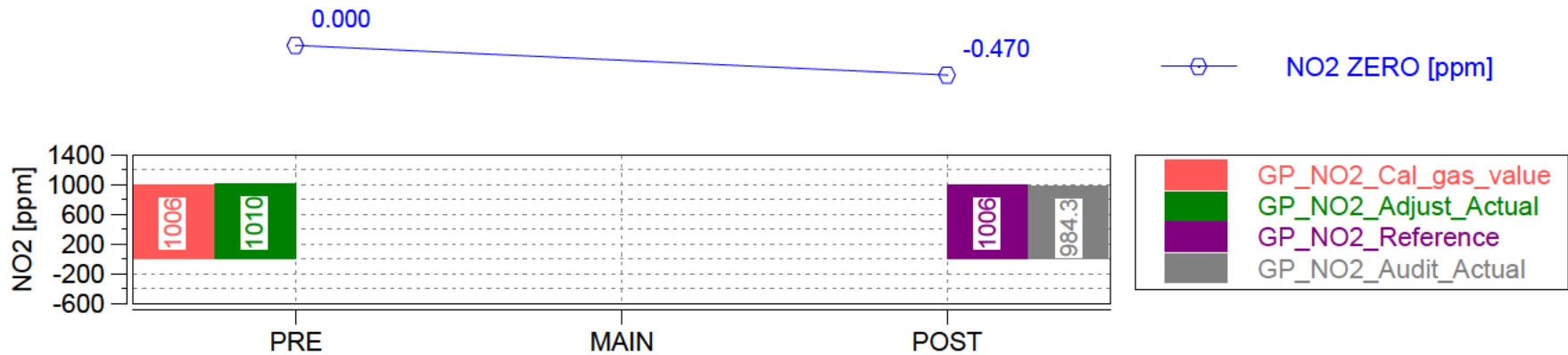
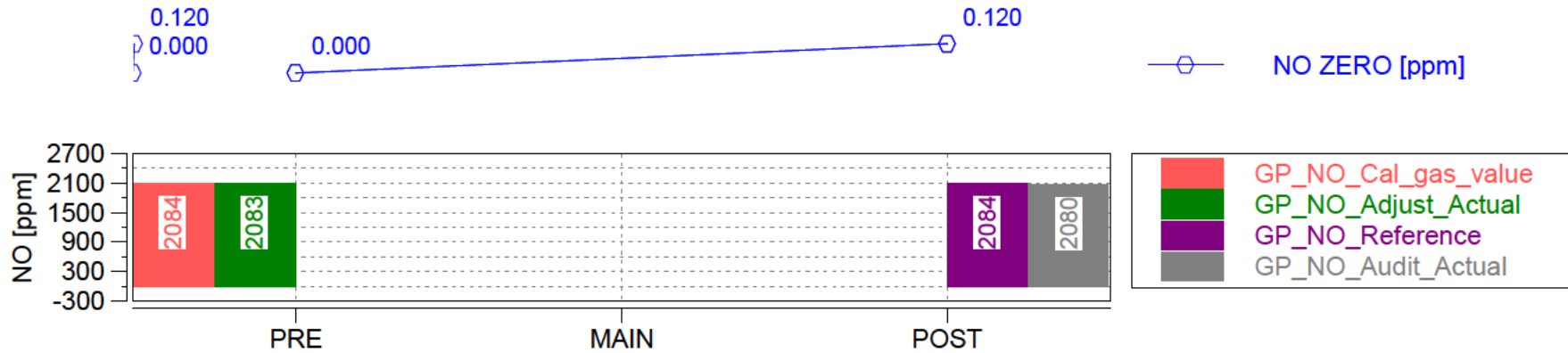
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

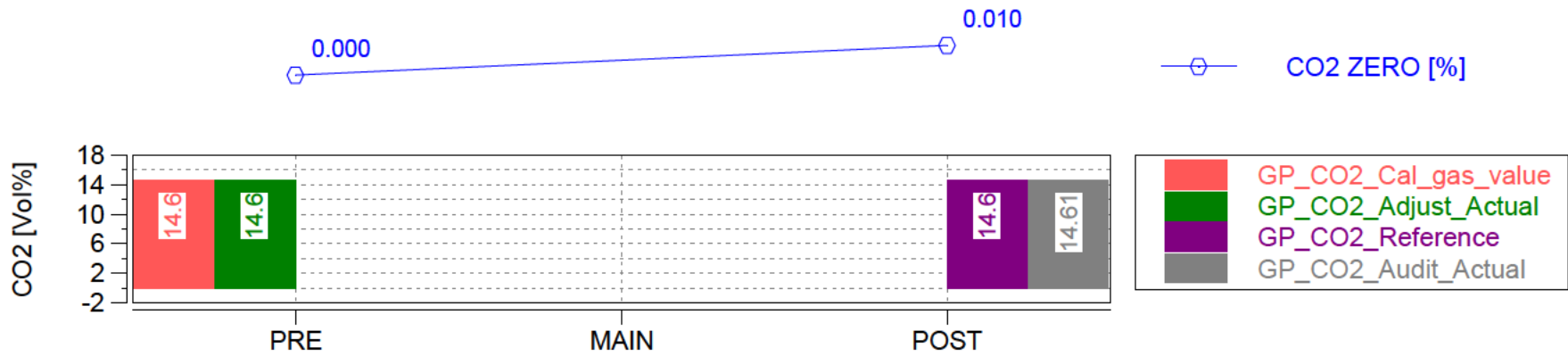
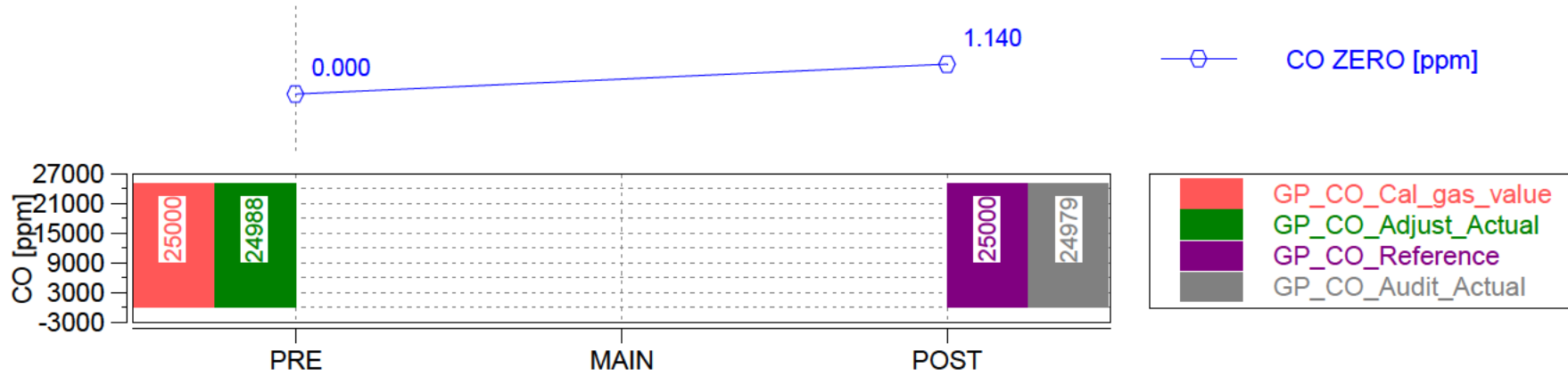
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

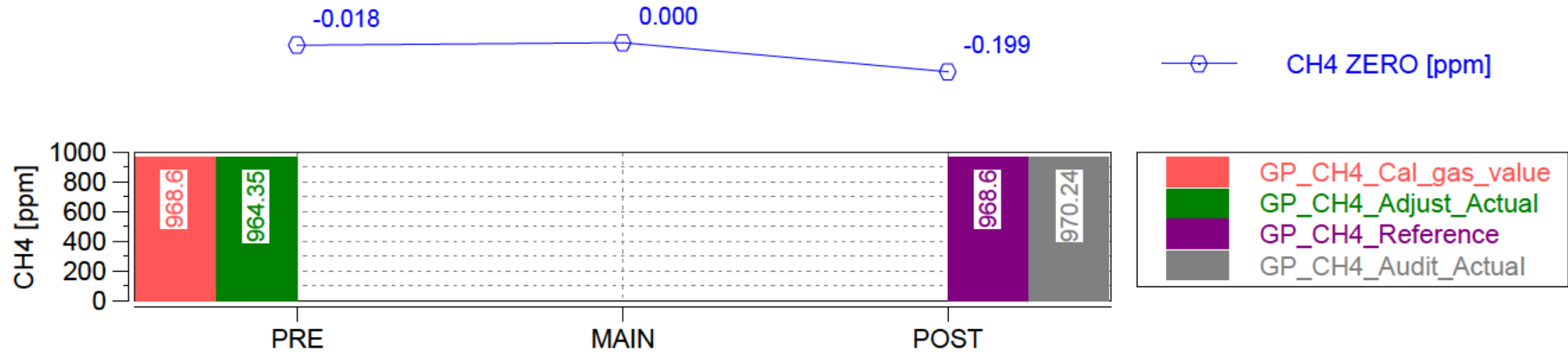
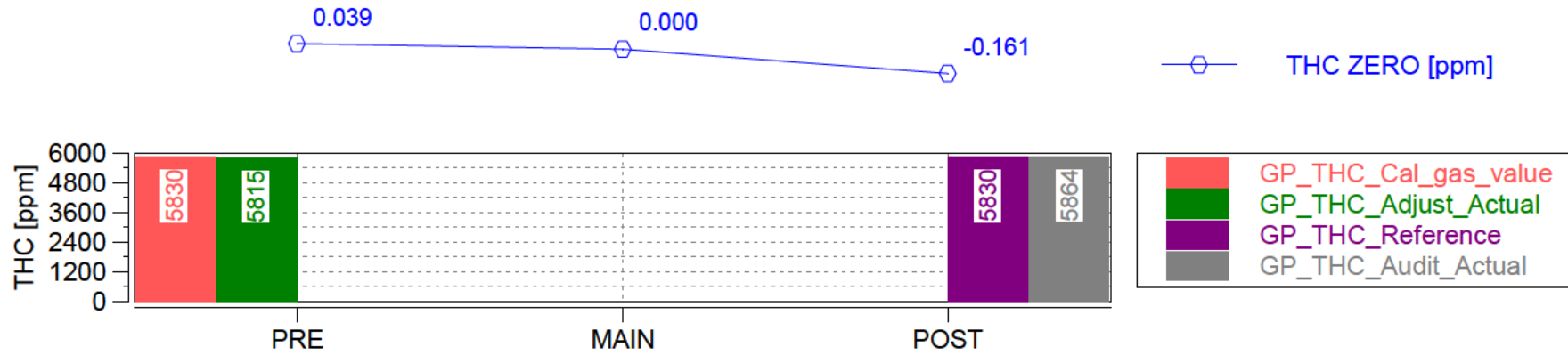
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 08/05/2019
Start Time: 14:22:53.0



Trip Duration	2538.00	s	ave THC	0.65270	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2538.00	s	ave NMHC	0.63965	ppm	BS CO	n/a	g/hphr
Trip Distance	38.65	mi	ave CH4	0.01305	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	38.65	mi	ave CO	145.64954	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.07745	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	3.85095	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.67	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.62	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.65	gall	tot THC	0.04042	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.63	gall	tot NMHC	0.03739	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00090	g	DS CO2	363.92100	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	12.33439	g	DS CO	0.31915	g/mi
Trip Fuel Economy EU (ac)	23.41	mpg_US	tot CO2	14064.84372	g	DS THC	0.00105	g/mi
Trip Fuel Economy US (ac)	23.65	mpg_US	tot NO (d)	0.15404	g	DS NMHC	0.00097	g/mi
Trip Av. Eng. Speed	1591.65	rpm	tot NO2	0.07323	g	DS CH4	0.00002	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.22726	g	DS NO (d)	0.00399	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00189	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00588	g/mi
Trip Exhaust Mass	72.74	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	78.10	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	54.16	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	54.81995	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	2.67928	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0



Concerto M.O.V.E., 2018

Trip Duration	2538.00	s	ave THC DC	0.82406	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2538.00	s	ave NMHC DC	0.80758	ppm	BS CO DC	n/a	g/hphr
Trip Distance	38.65	mi	ave CH4 DC	0.01648	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	38.65	mi	ave CO DC	145.11811	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.06506	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	3.84687	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.67	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.62	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.65	gall	tot THC DC	0.04624	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.63	gall	tot NMHC DC	0.04277	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00102	g	DS CO2 DC	363.54750	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	12.31299	g	DS CO DC	0.31859	g/mi
Trip Fuel Economy EU (ac)	23.41	mpg_US	tot CO2 DC	14050.40837	g	DS THC DC	0.00120	g/mi
Trip Fuel Economy US (ac)	23.65	mpg_US	tot NO DC (d)	0.15427	g	DS NMHC DC	0.00111	g/mi
Trip Av. Eng. Speed	1591.65	rpm	tot NO2 DC	0.07270	g	DS CH4 DC	0.00003	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.22697	g	DS NO DC (d)	0.00399	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00188	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.00587	g/mi
Trip Exhaust Mass	72.74	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	78.10	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	54.16	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	54.81995	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	2.67928	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

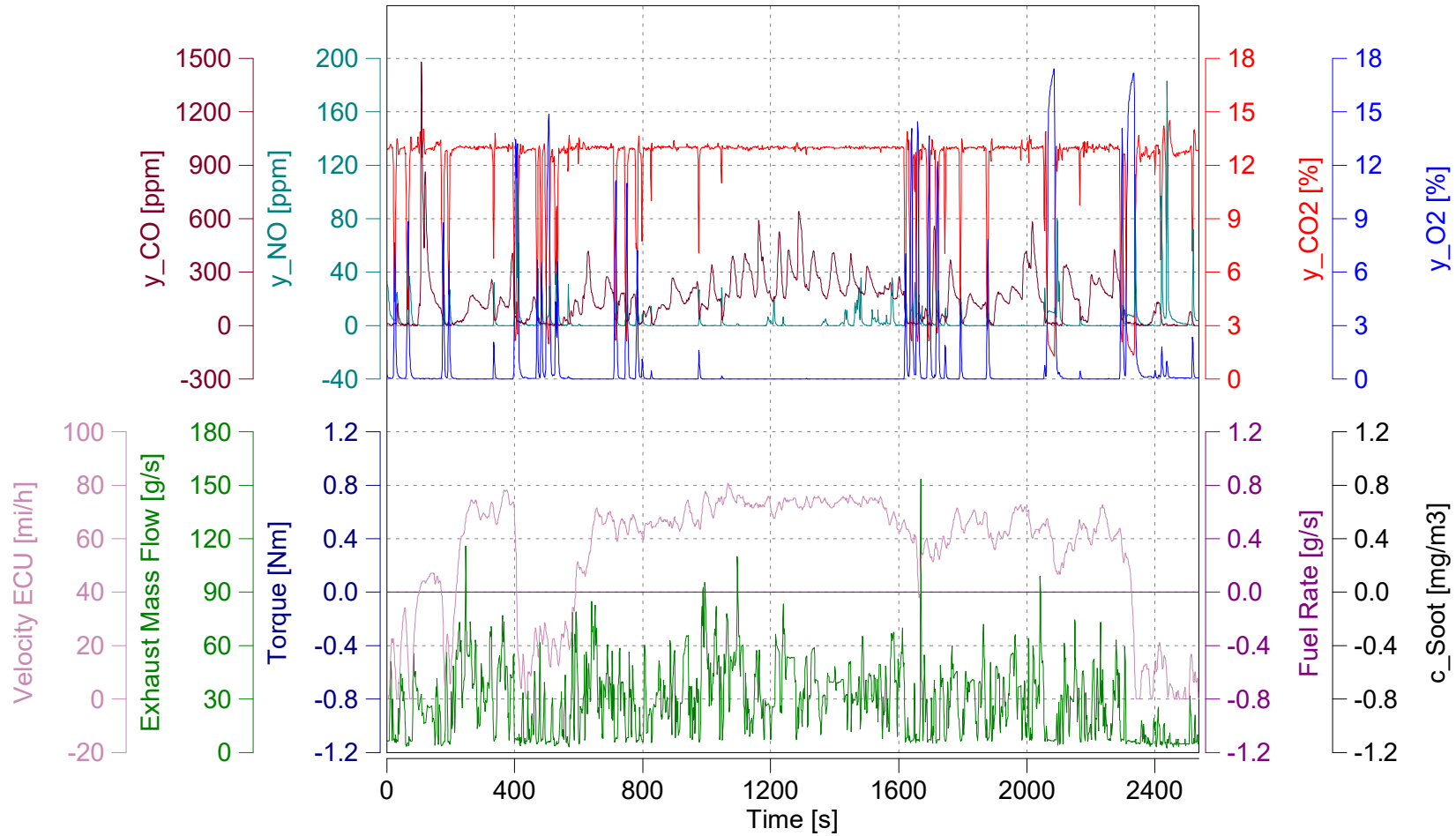
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Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

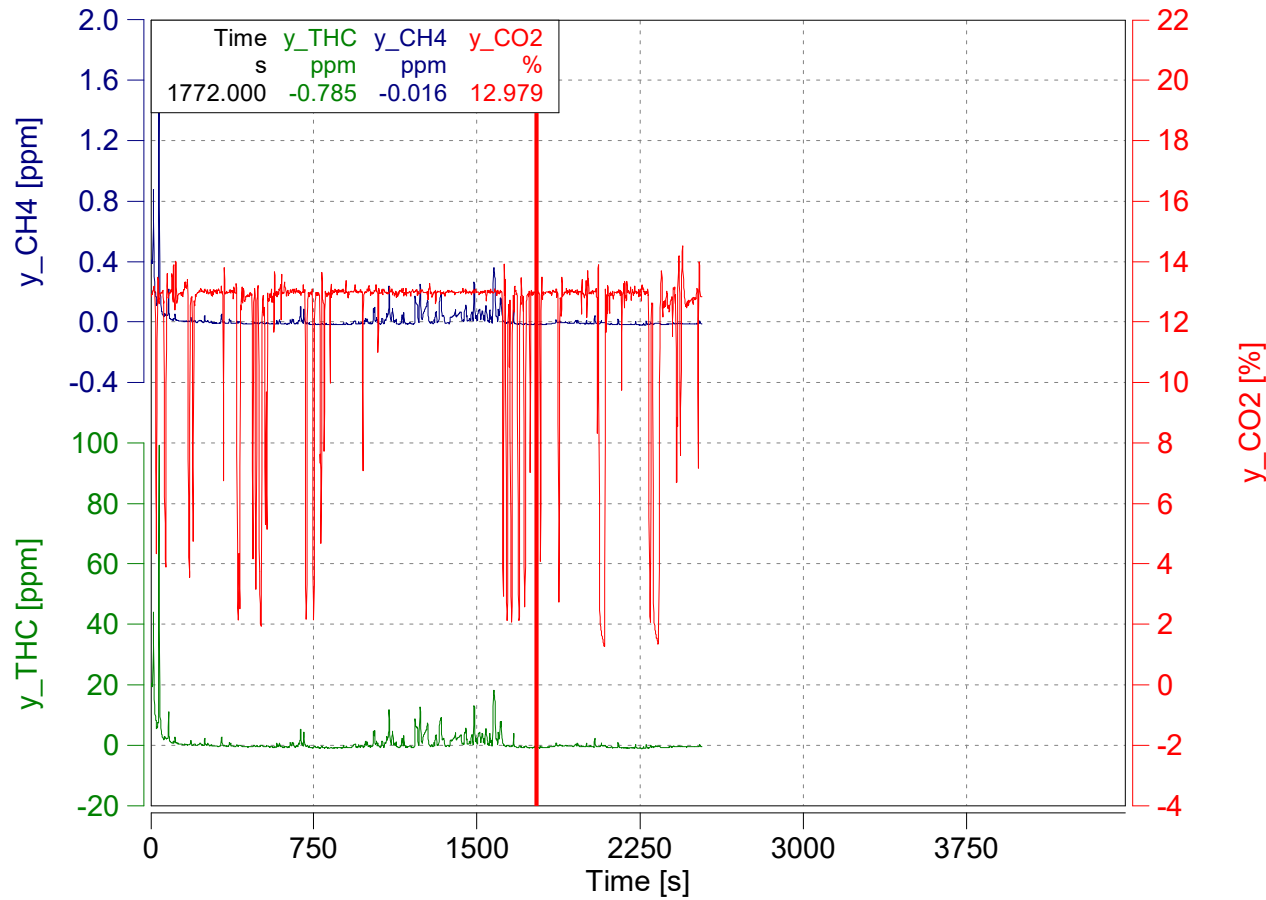
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Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120

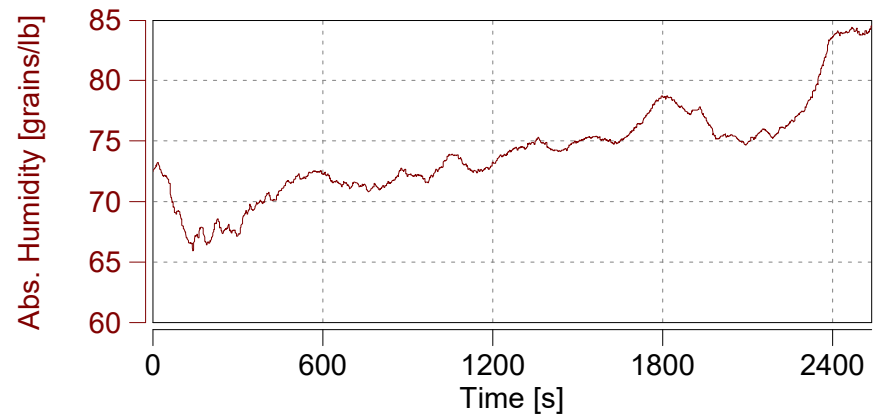
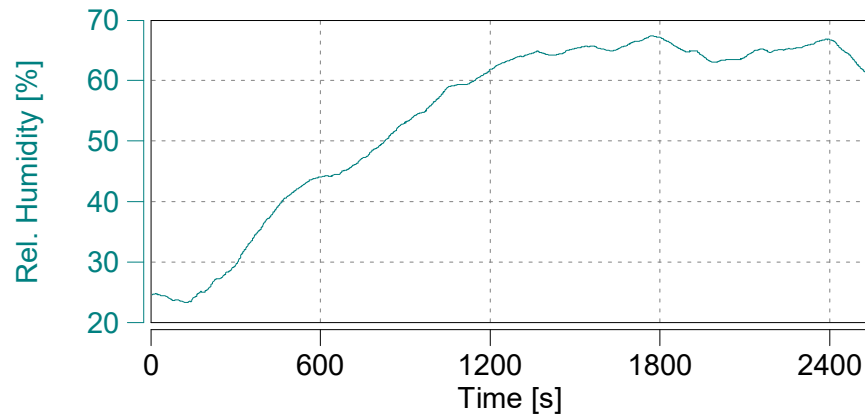
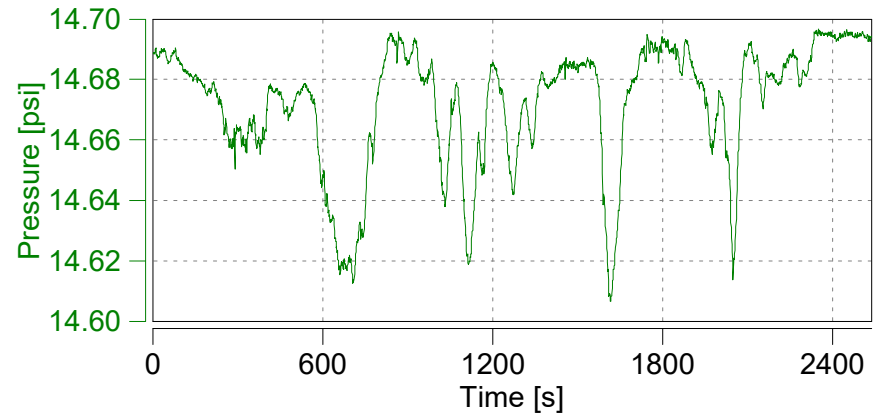
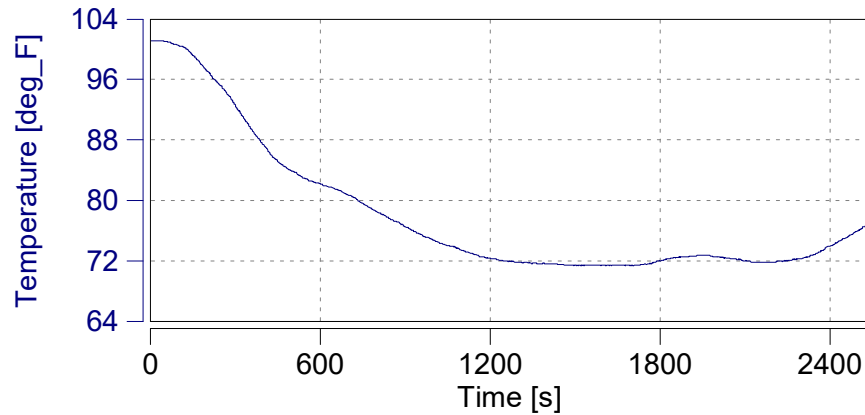
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Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

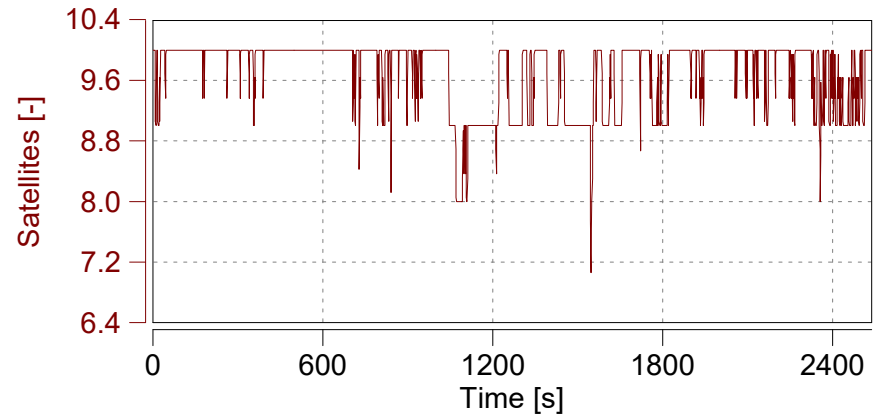
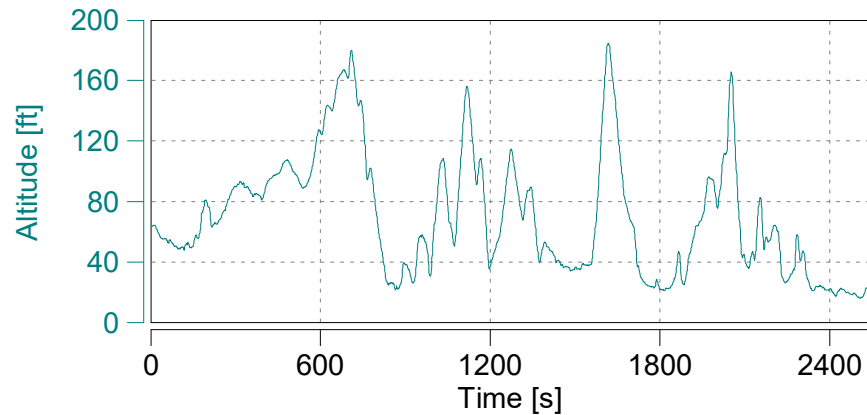
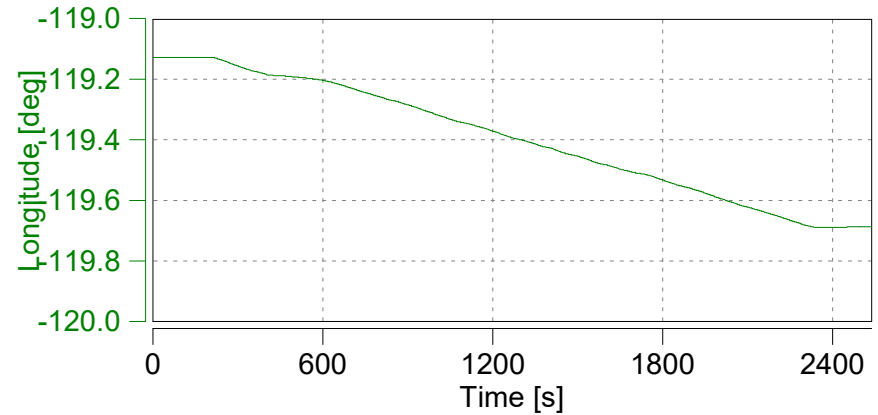
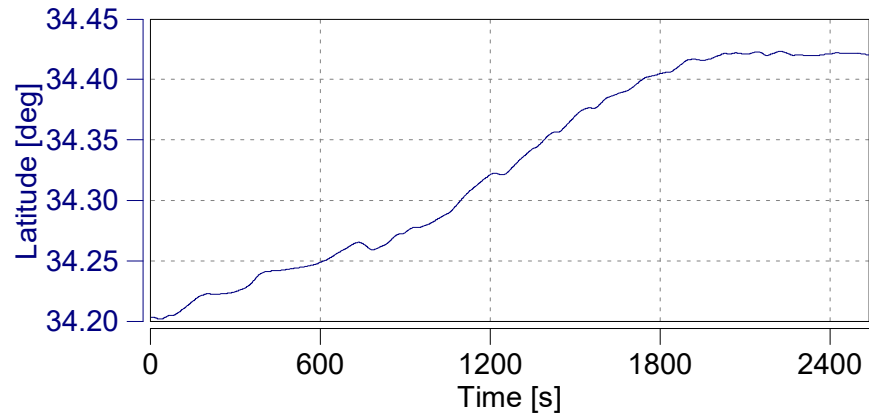
'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0

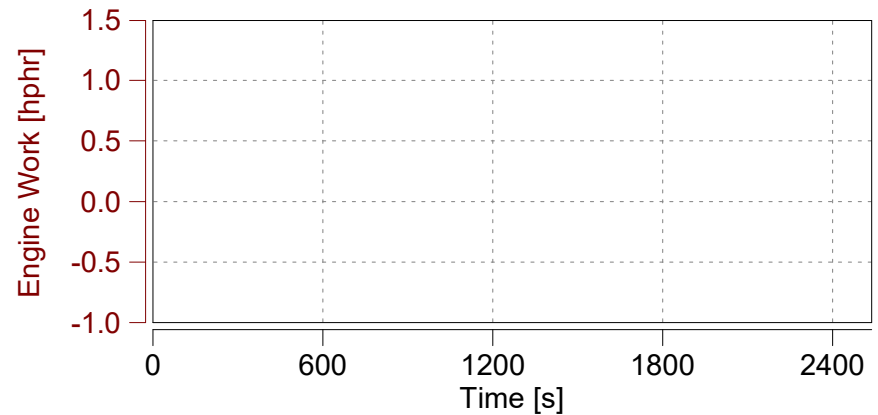
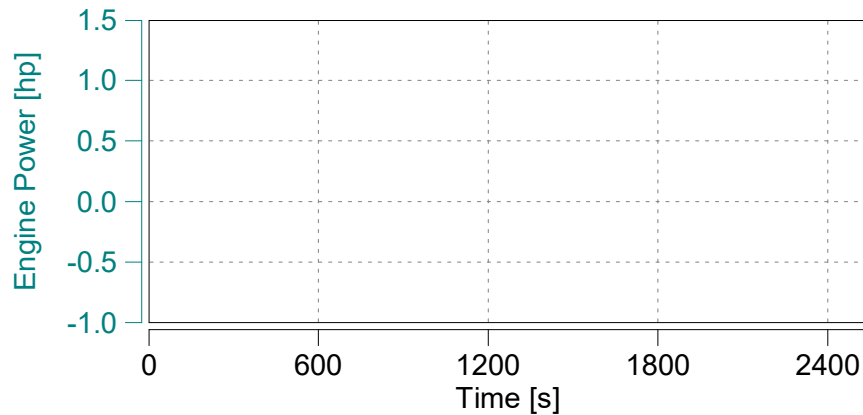
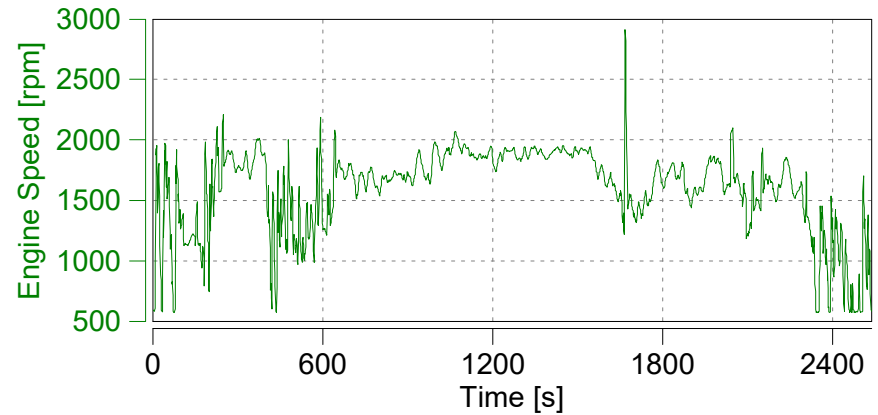
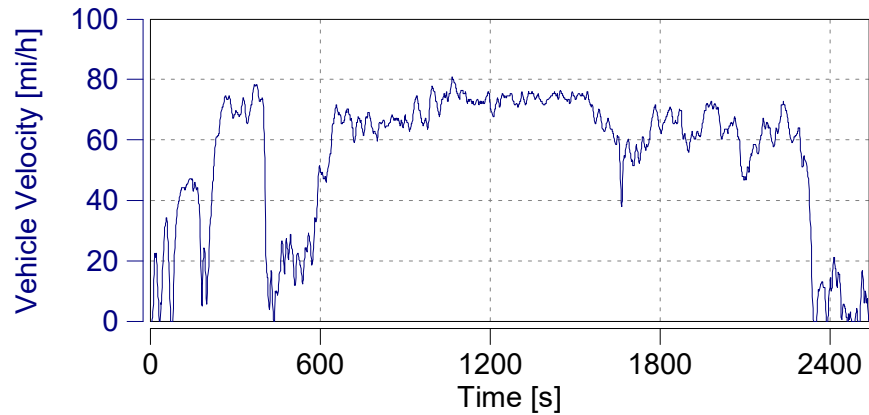


Concerto M.O.V.E., 2018



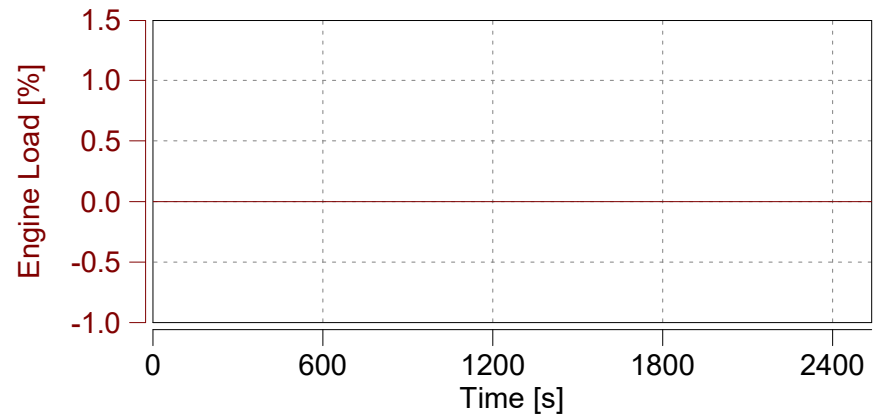
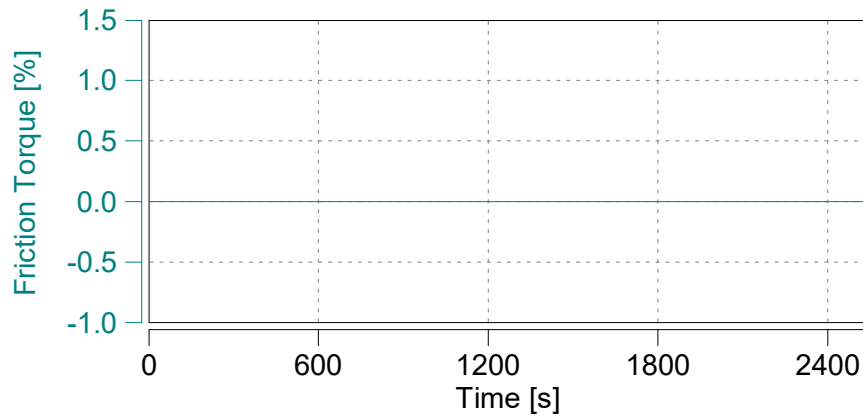
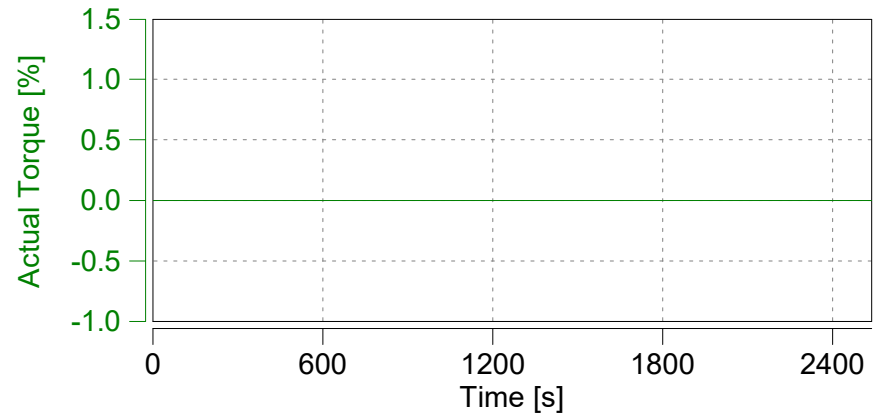
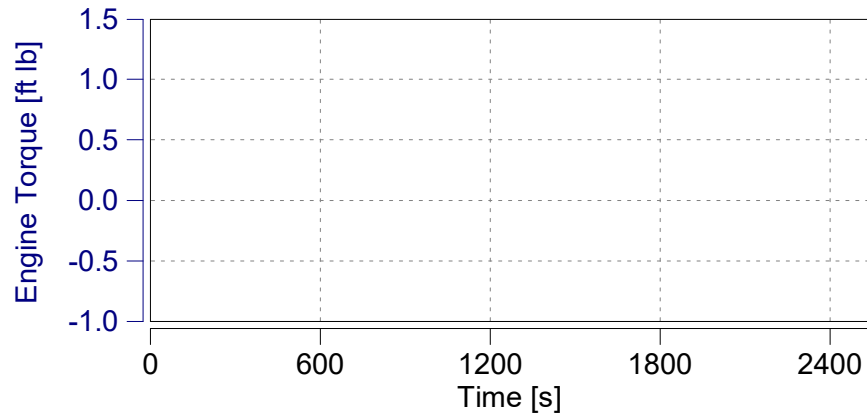
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



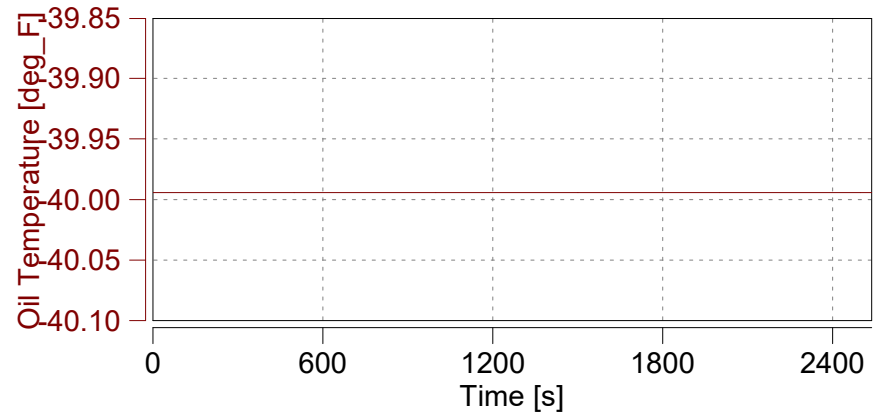
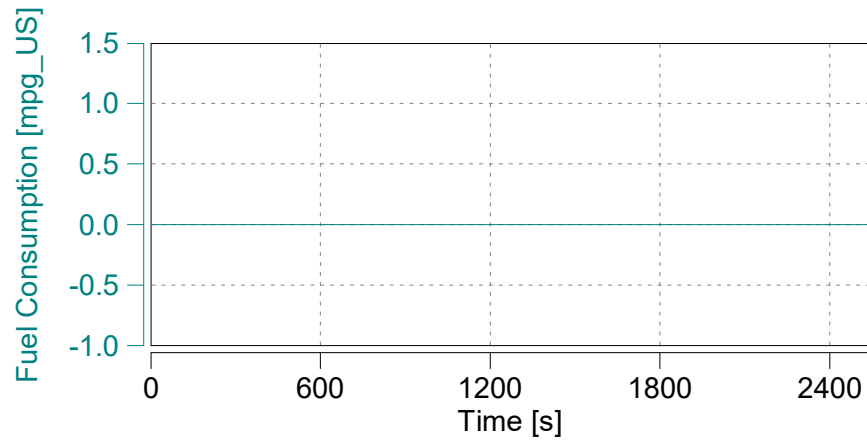
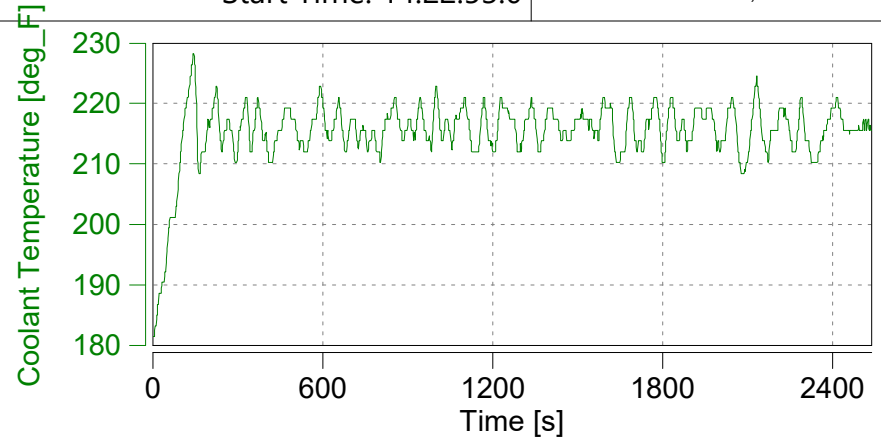
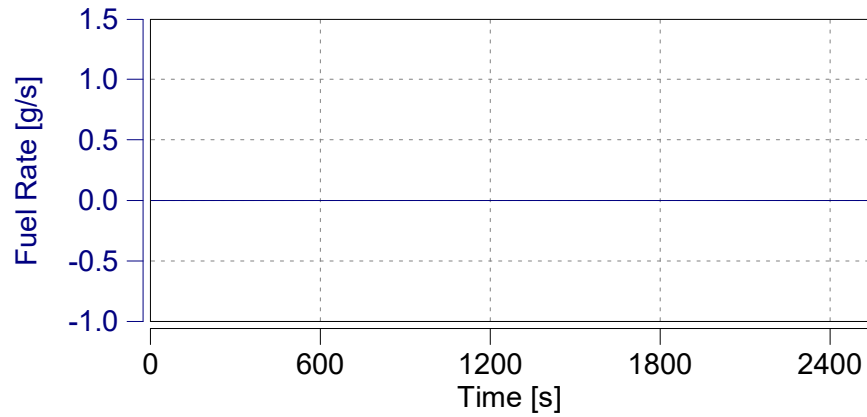
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

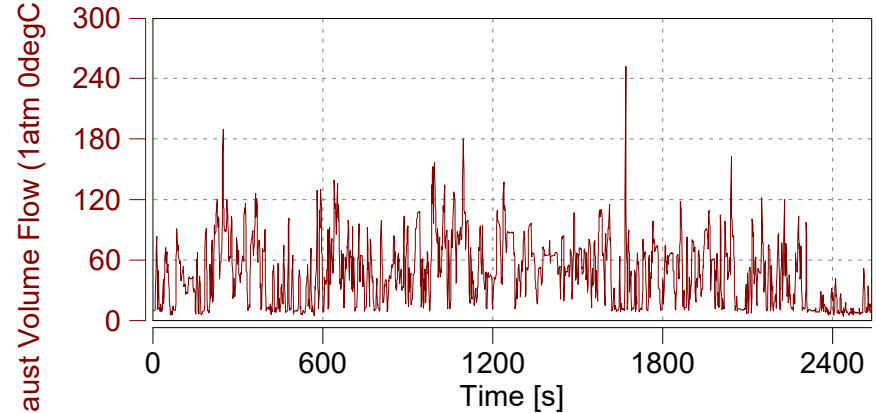
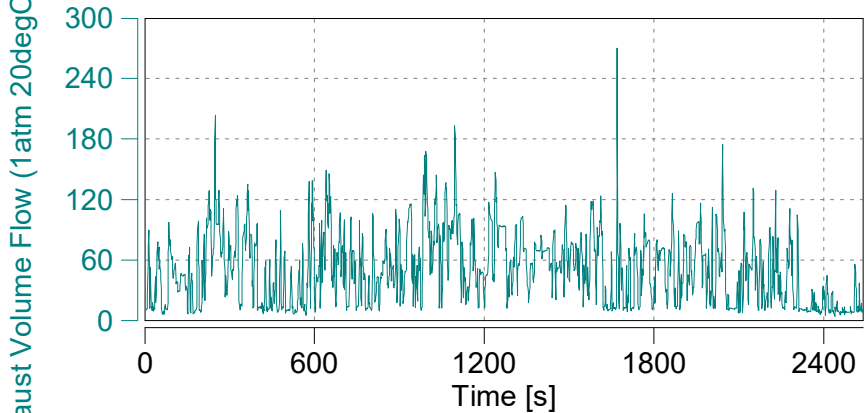
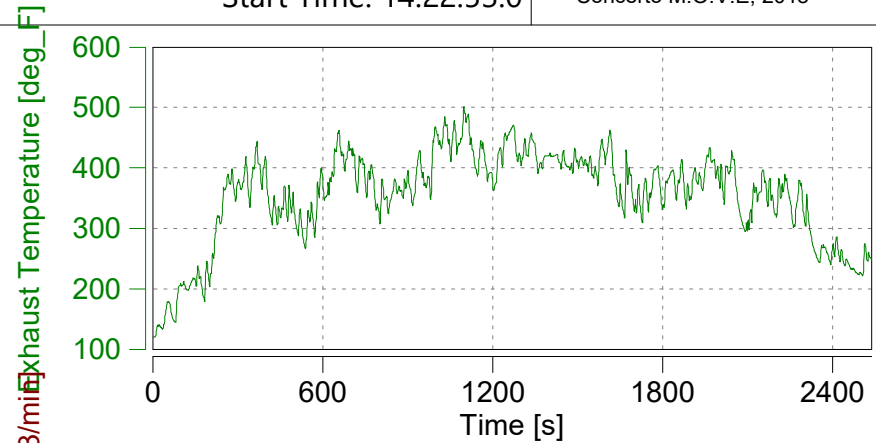
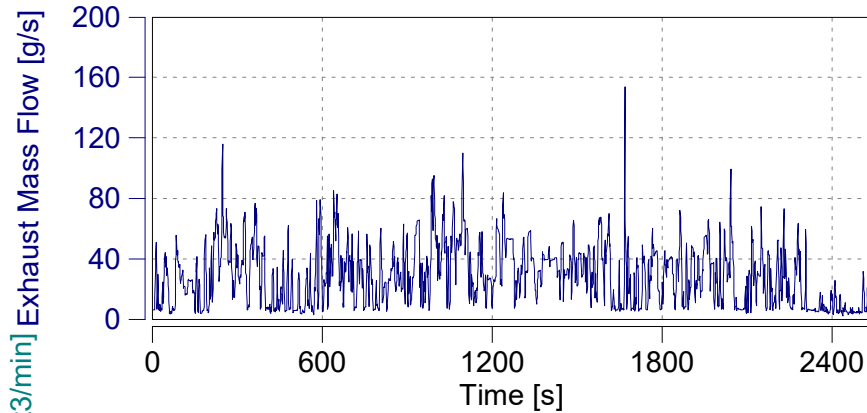
'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0

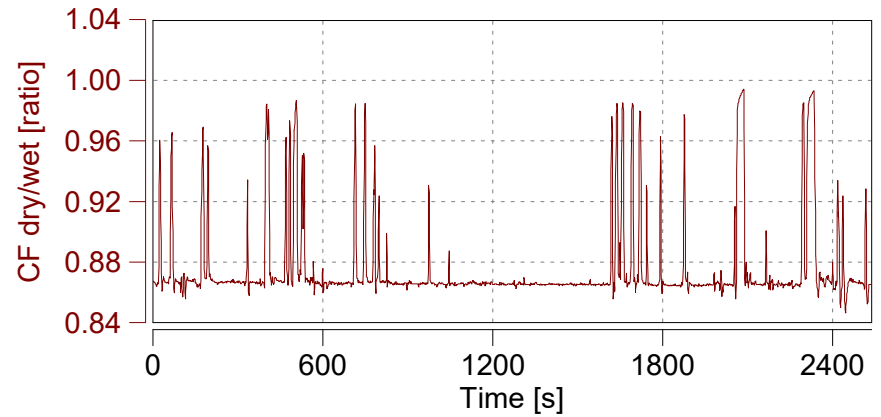
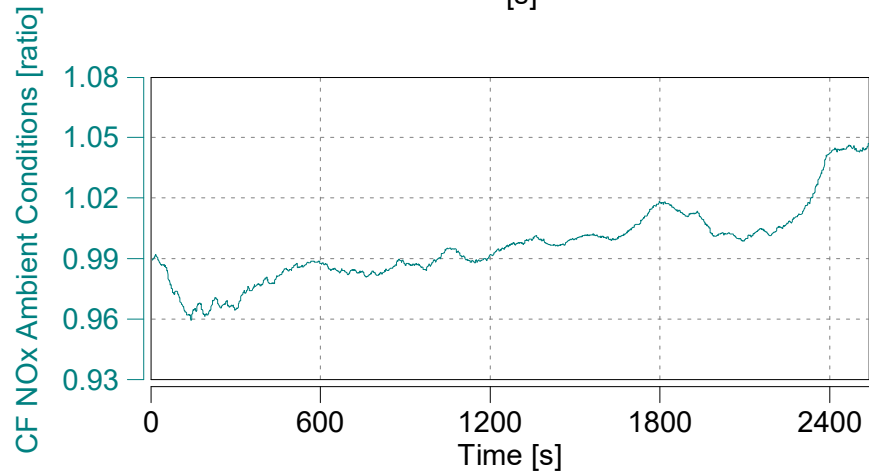
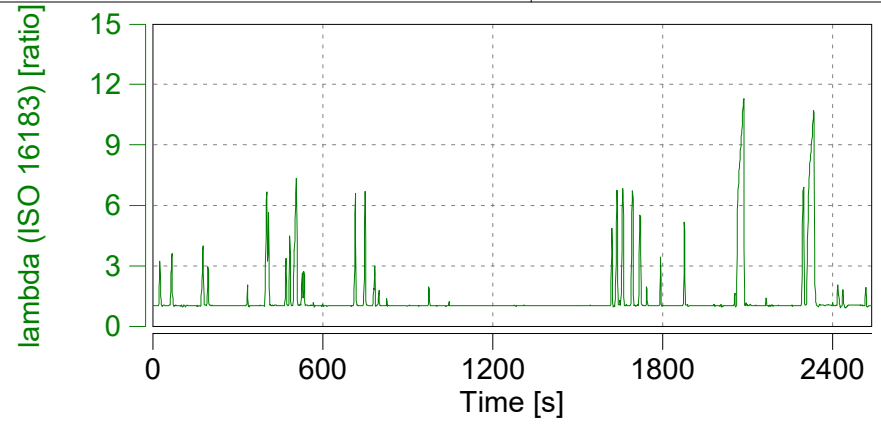
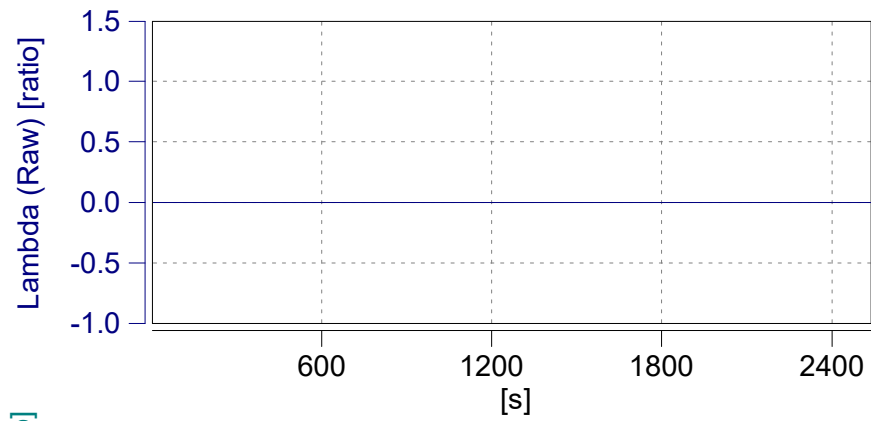


Concerto M.O.V.E, 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

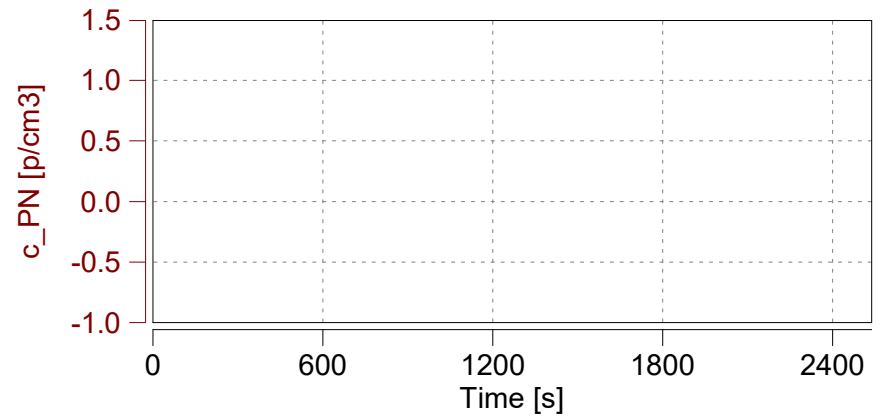
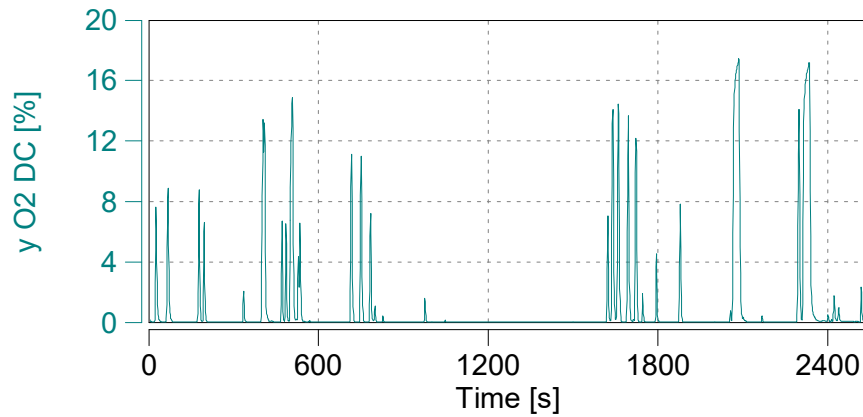
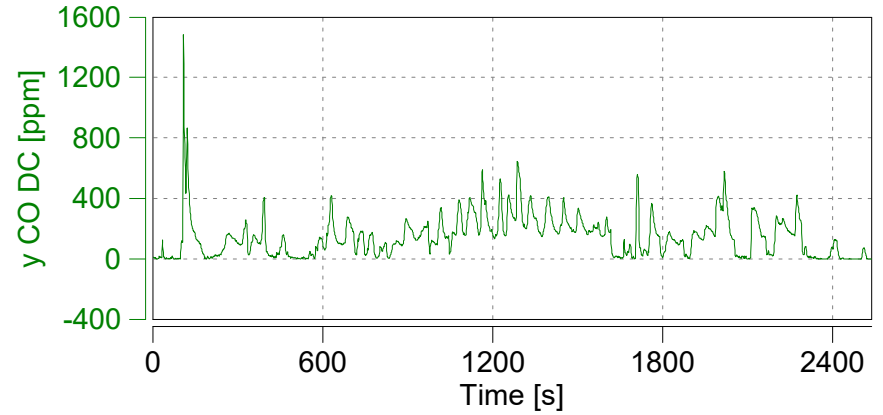
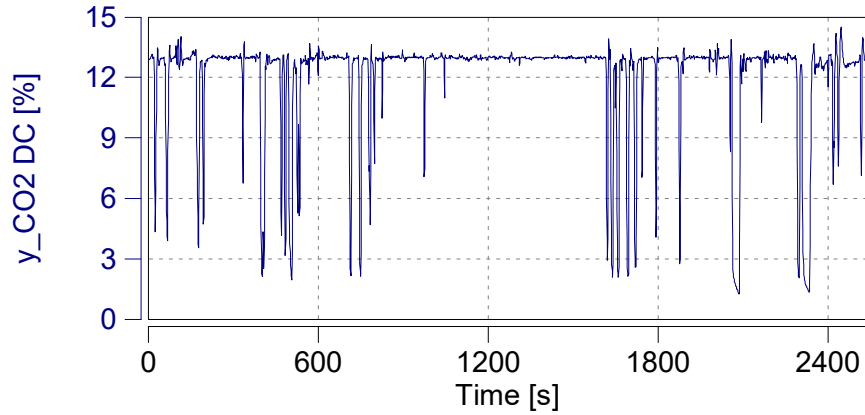
'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (2)

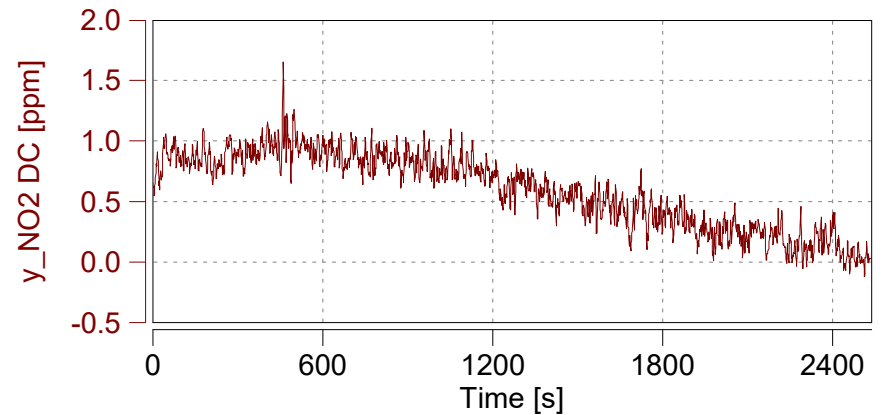
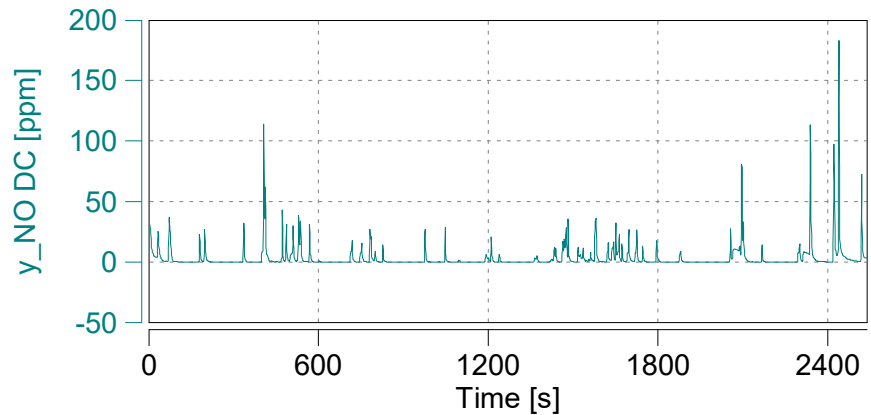
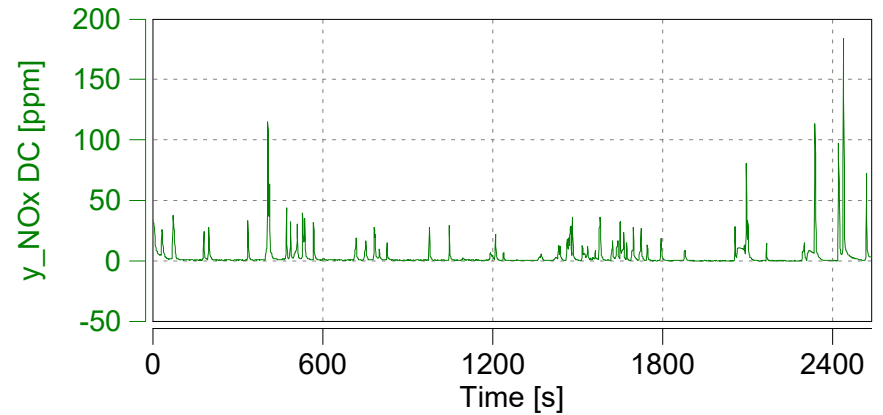
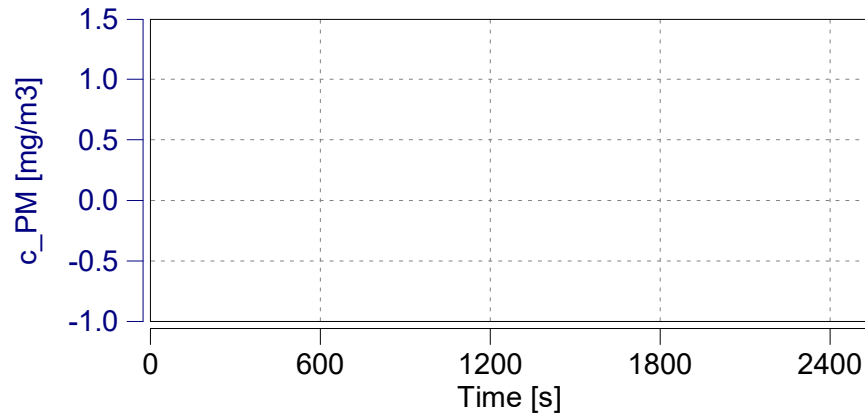
'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0

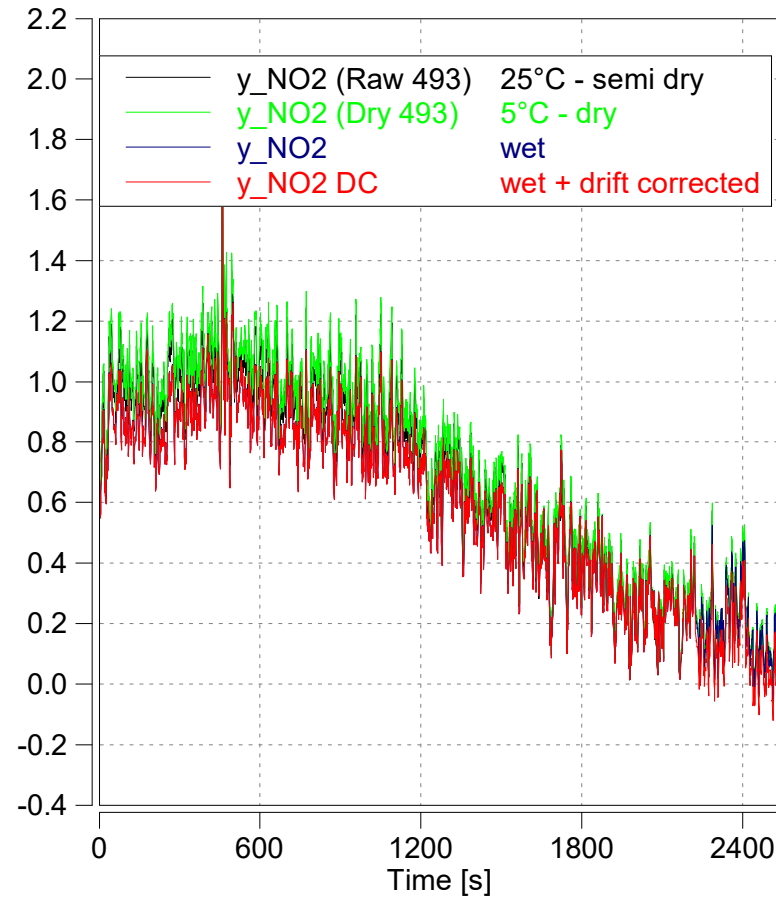
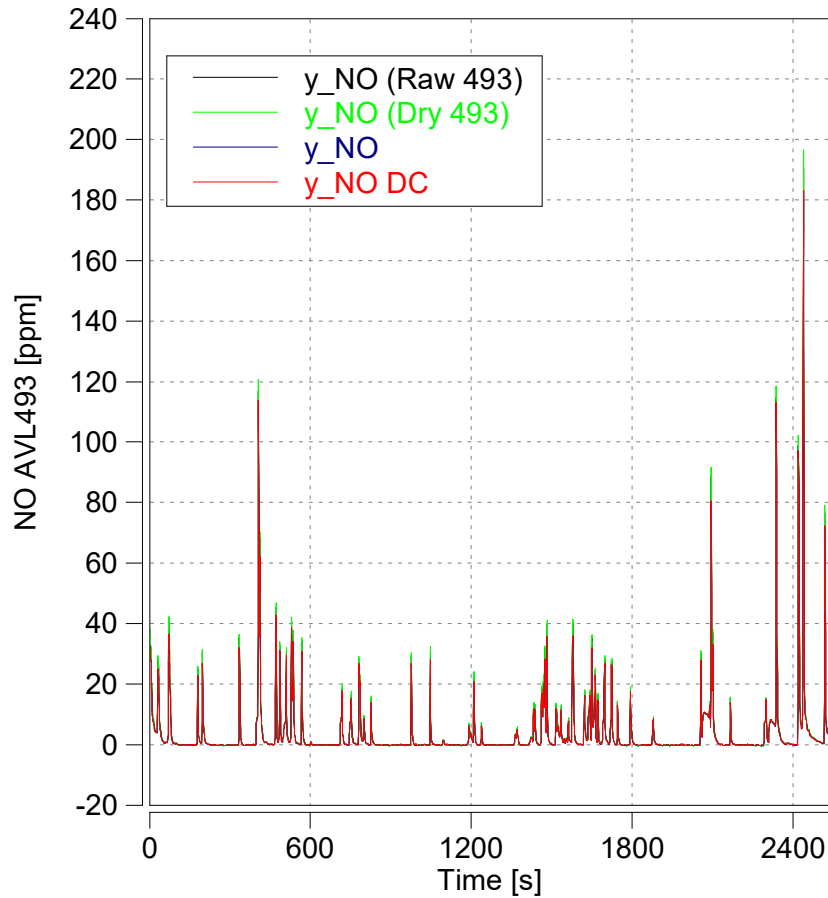


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

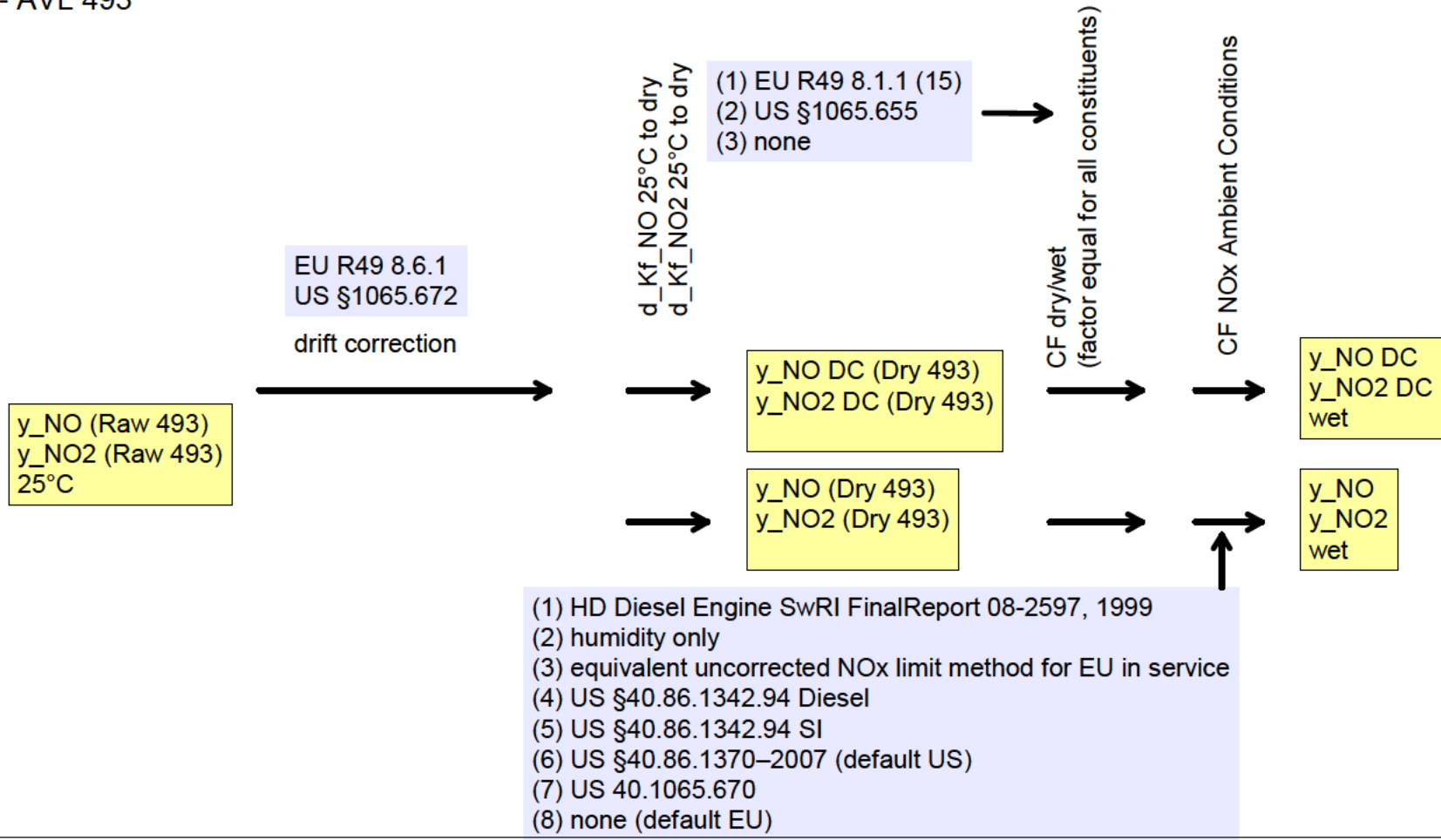


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

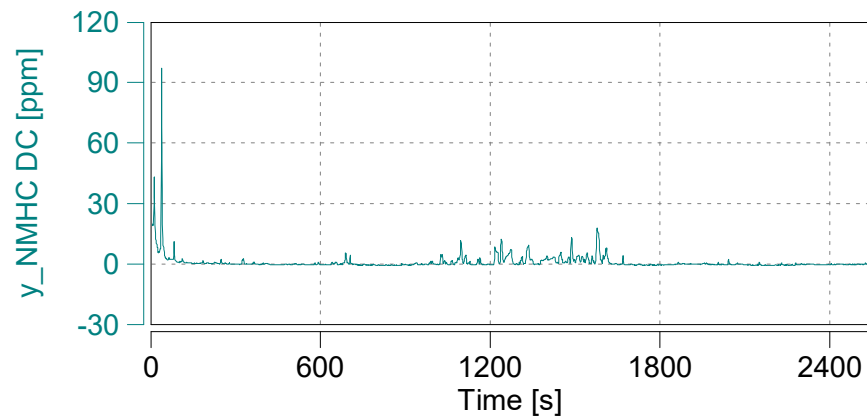
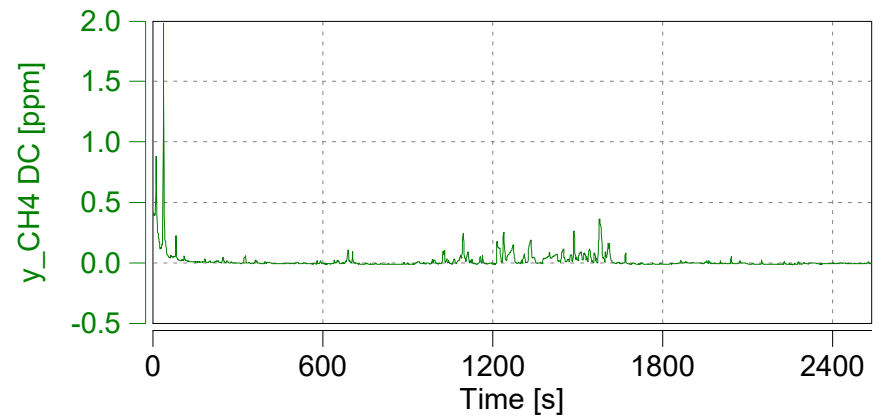
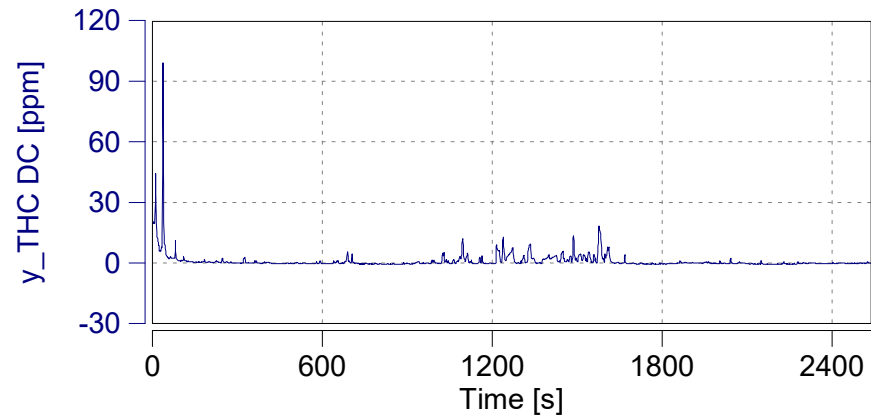
'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

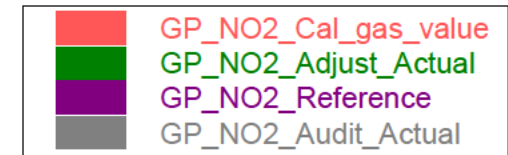
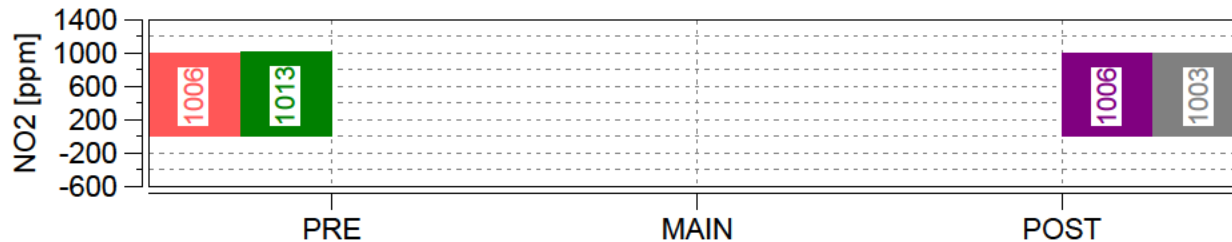
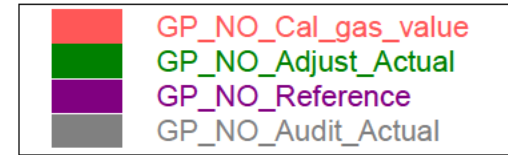
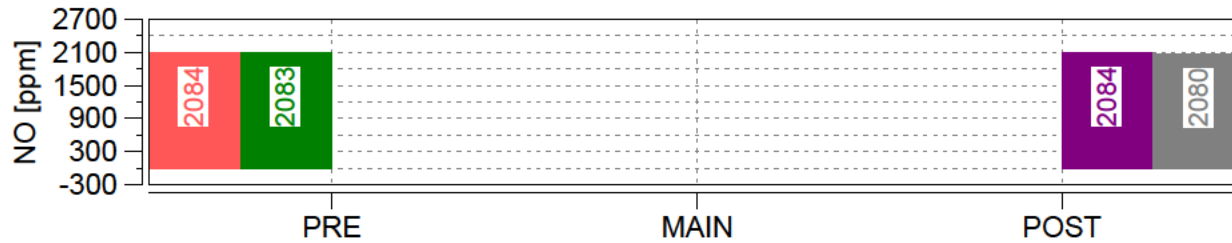
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Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

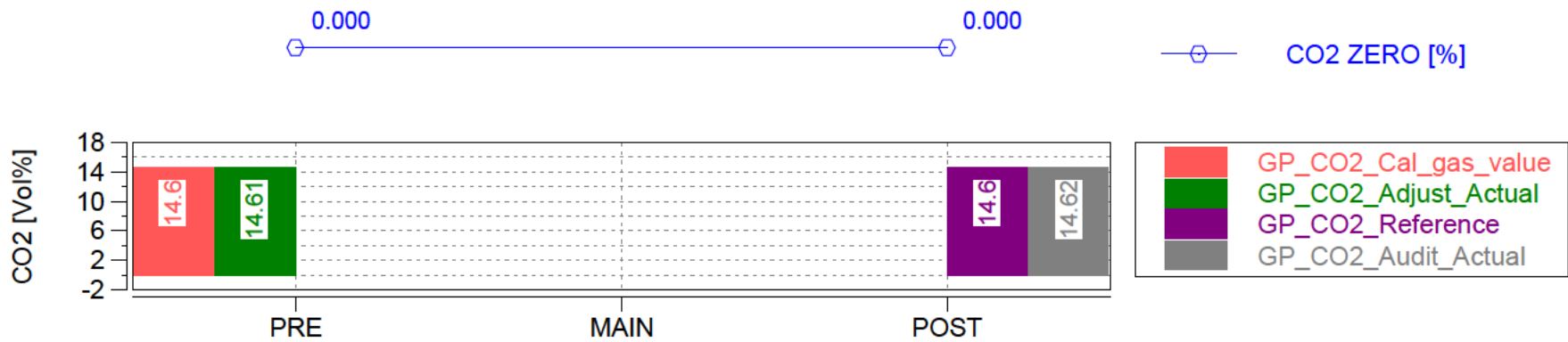
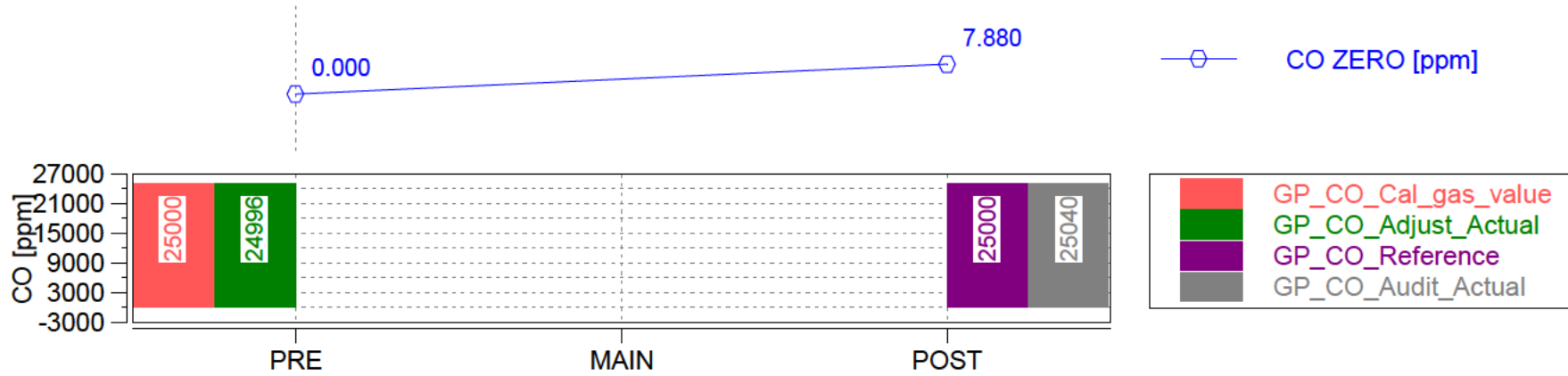
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Vehicle: SQ5 / 3.0 L

Engine: /

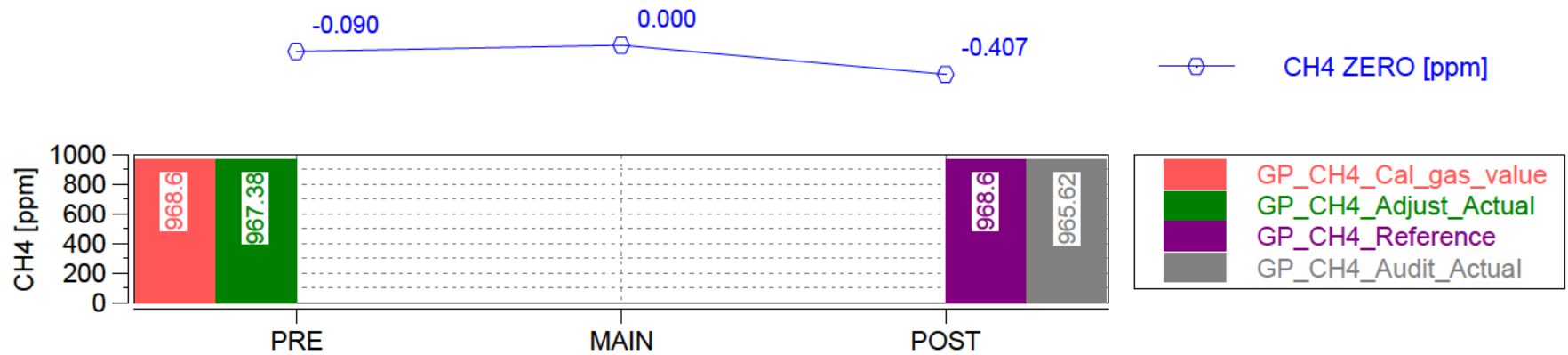
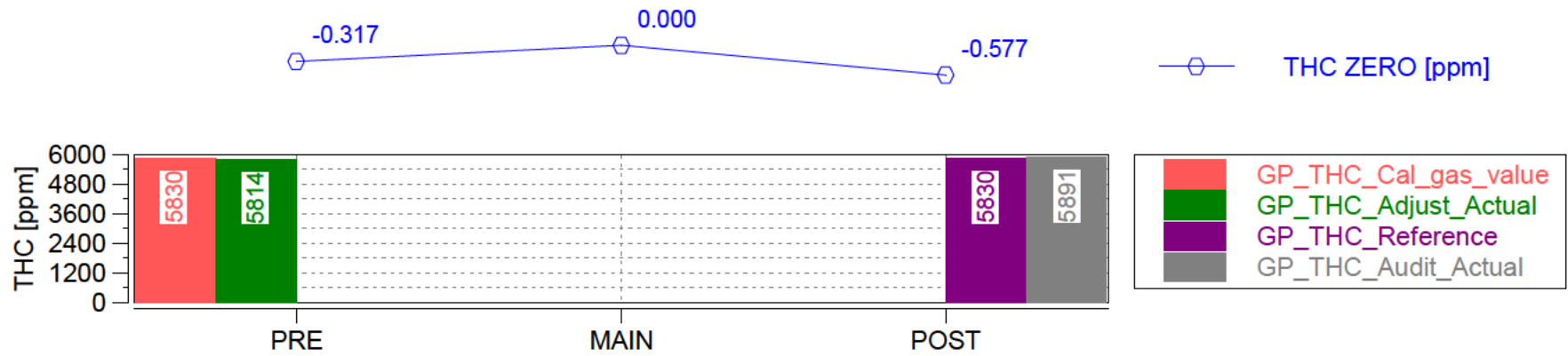
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 08/05/2019
Start Time: 14:22:53.0



Trip Duration	2927.00	s	ave THC	2.29010	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2927.00	s	ave NMHC	2.24430	ppm	BS CO	n/a	g/hphr
Trip Distance	28.78	mi	ave CH4	0.04580	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	28.78	mi	ave CO	79.24298	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	10.34084	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	4.85756	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.72	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.68	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.32	gall	tot THC	0.07180	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.30	gall	tot NMHC	0.06641	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00159	g	DS CO2	389.47109	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	7.17283	g	DS CO	0.24926	g/mi
Trip Fuel Economy EU (ac)	21.88	mpg_US	tot CO2	11207.80386	g	DS THC	0.00249	g/mi
Trip Fuel Economy US (ac)	22.11	mpg_US	tot NO (d)	0.11650	g	DS NMHC	0.00231	g/mi
Trip Av. Eng. Speed	1449.14	rpm	tot NO2	0.10683	g	DS CH4	0.00006	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.22333	g	DS NO (d)	0.00405	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00371	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00776	g/mi
Trip Exhaust Mass	62.48	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	82.99	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	43.27	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	35.39373	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	9.70277	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironmets\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Trip Duration	2927.00	s	ave THC DC	2.43899	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2927.00	s	ave NMHC DC	2.39021	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.78	mi	ave CH4 DC	0.04878	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.78	mi	ave CO DC	79.18628	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	10.33023	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	4.85829	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.72	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.68	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.32	gall	tot THC DC	0.07644	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.30	gall	tot NMHC DC	0.07071	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00169	g	DS CO2 DC	389.07136	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	7.16770	g	DS CO DC	0.24908	g/mi
Trip Fuel Economy EU (ac)	21.88	mpg_US	tot CO2 DC	11196.30081	g	DS THC DC	0.00266	g/mi
Trip Fuel Economy US (ac)	22.11	mpg_US	tot NO DC (d)	0.11660	g	DS NMHC DC	0.00246	g/mi
Trip Av. Eng. Speed	1449.14	rpm	tot NO2 DC	0.10661	g	DS CH4 DC	0.00006	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.22320	g	DS NO DC (d)	0.00405	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00370	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.00776	g/mi
Trip Exhaust Mass	62.48	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	82.99	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	43.27	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	35.39373	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	9.70277	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

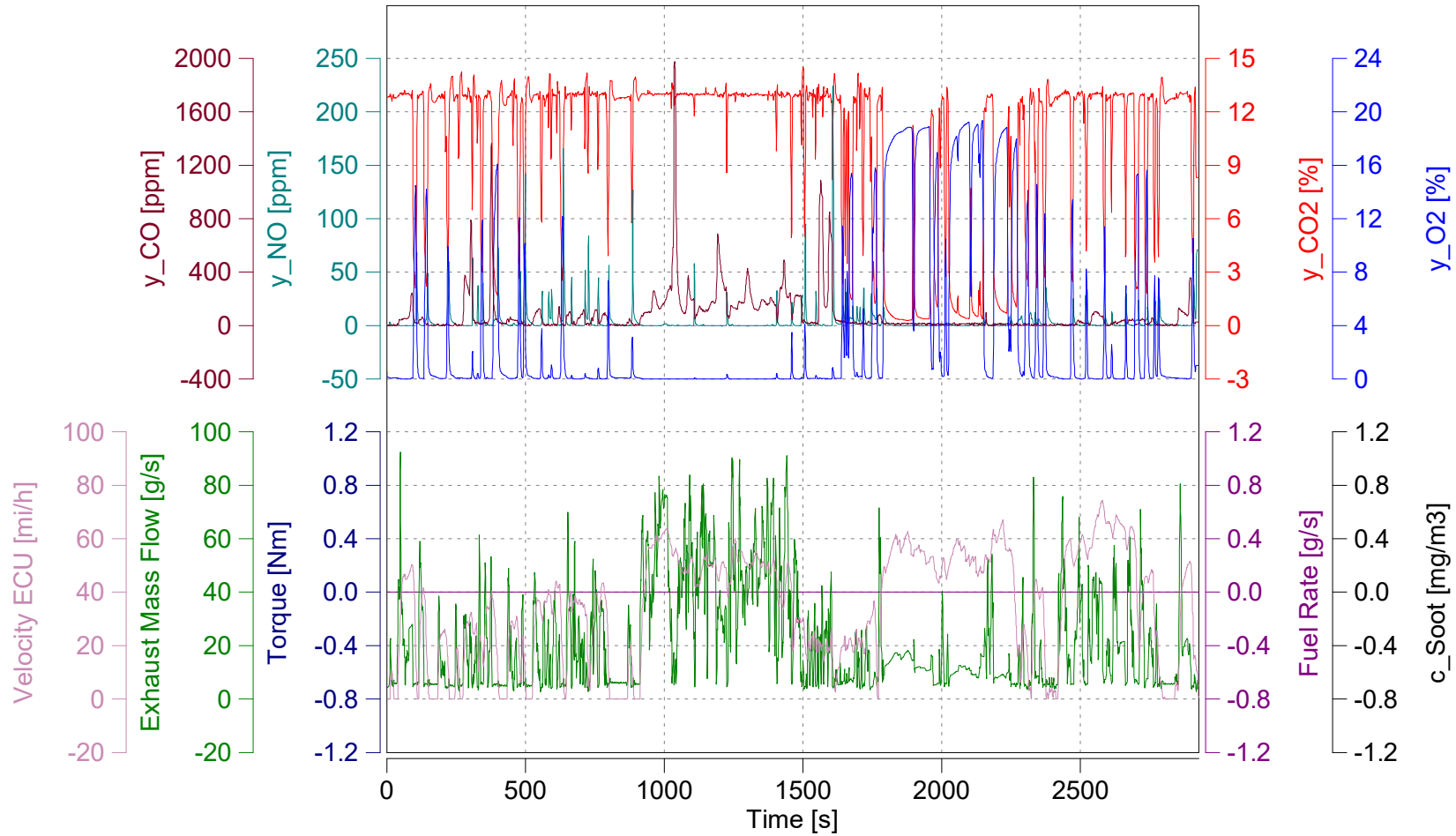
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Vehicle: SQ5 / 3.0 L

Engine: /

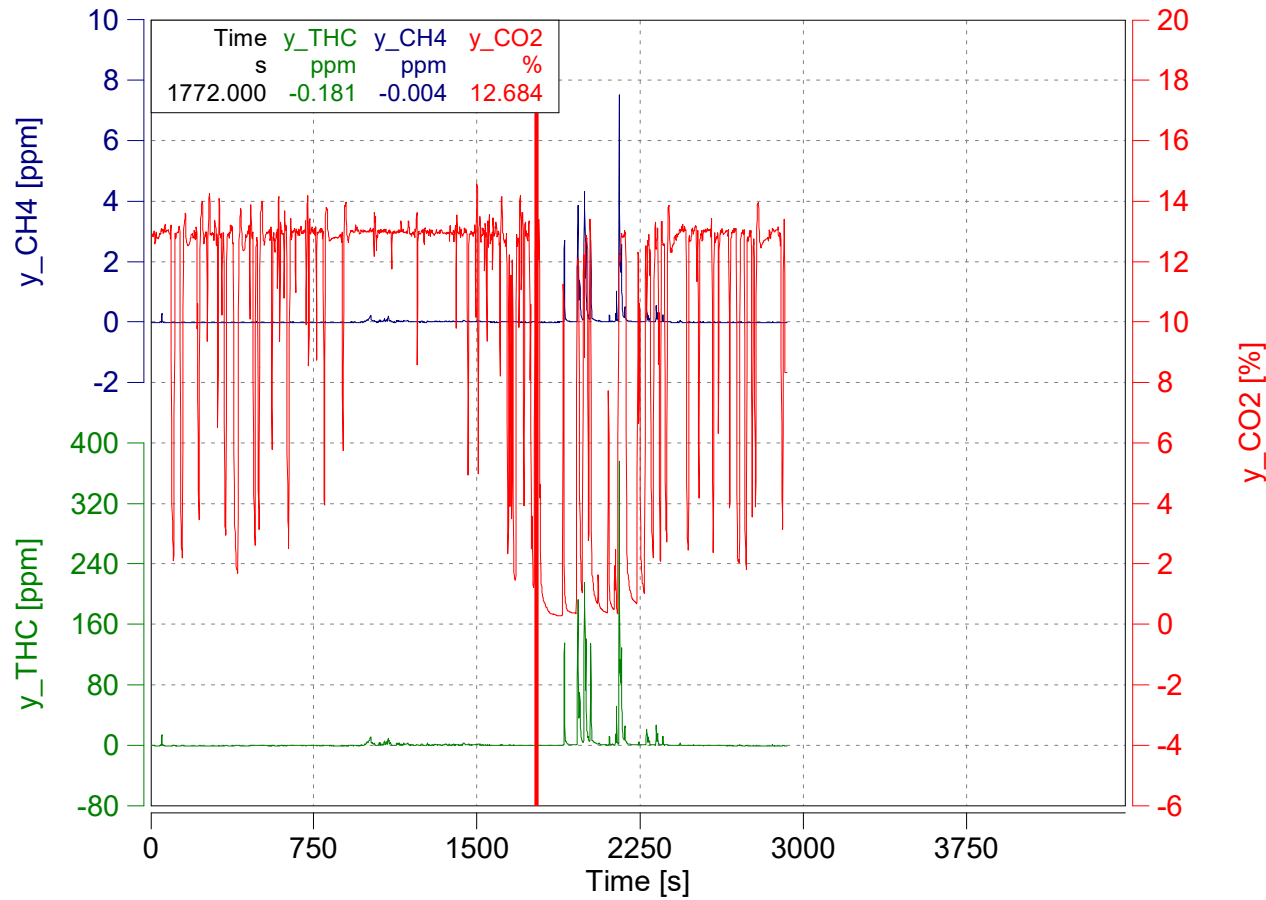
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Case: Mountain

Page: Ambient Conditions

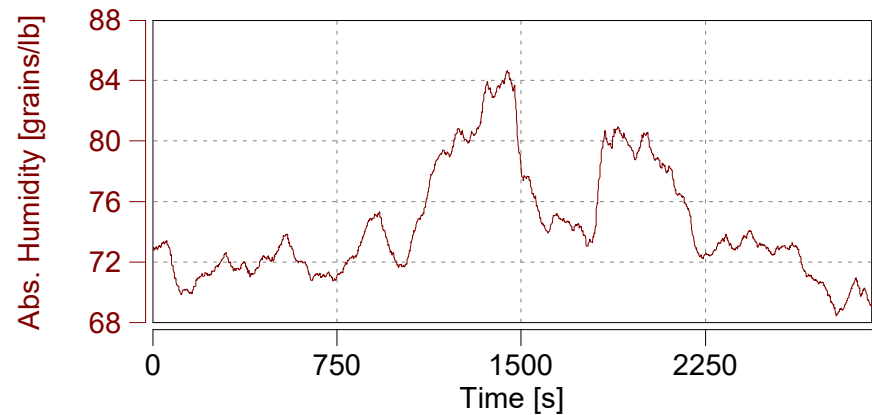
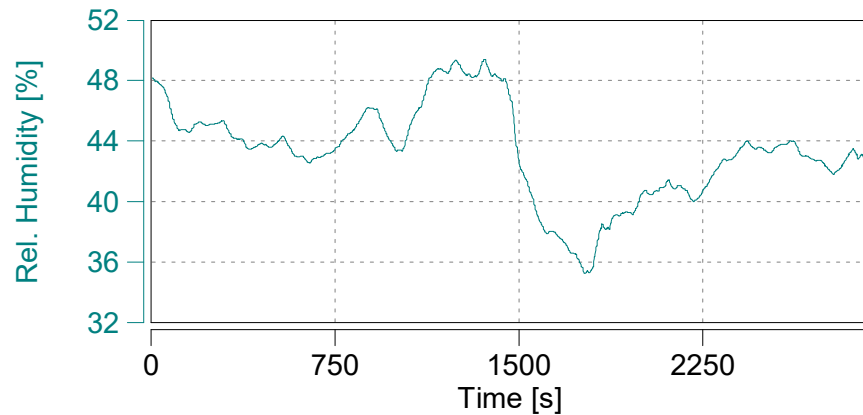
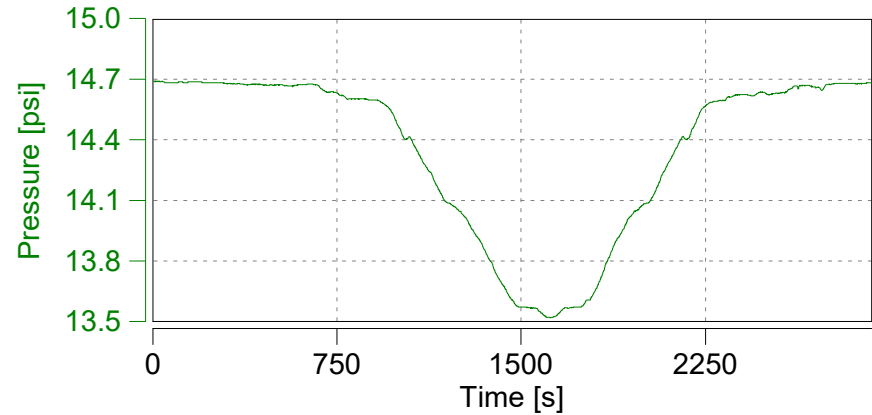
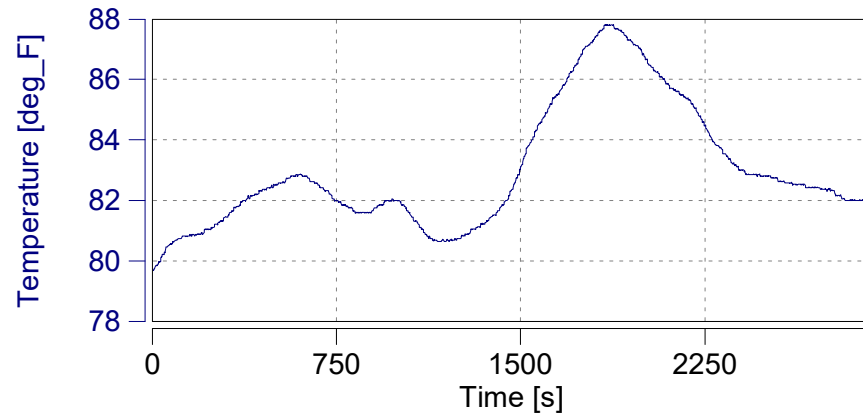
'Mountain'

Start Date: 08/05/2019

Start Time: 14:22:53.0

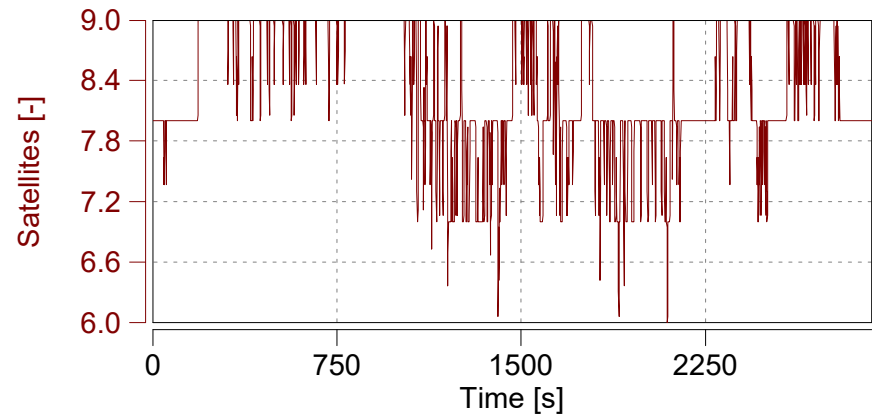
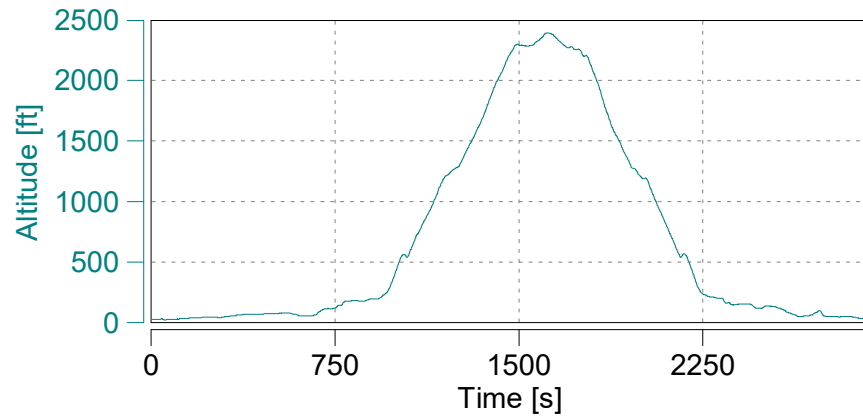
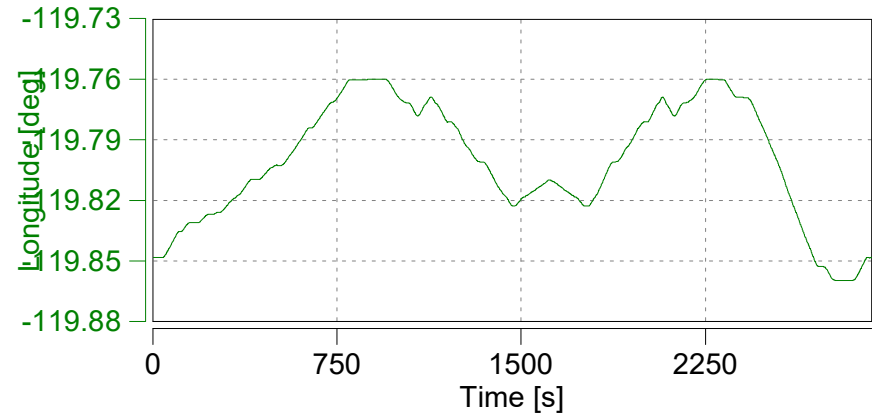
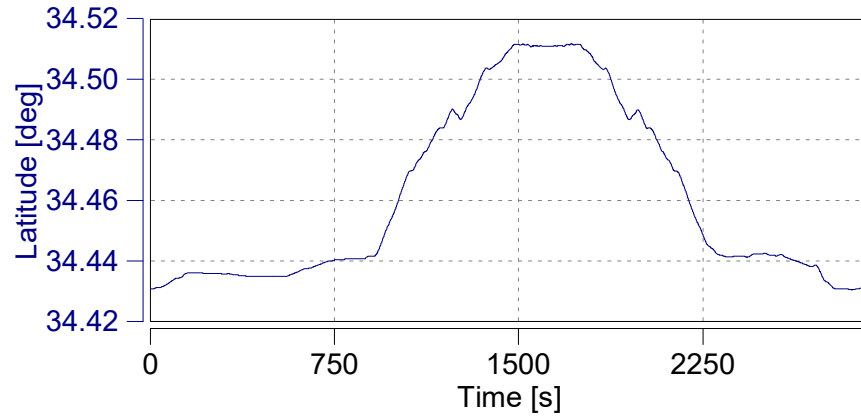


Concerto M.O.V.E., 2018



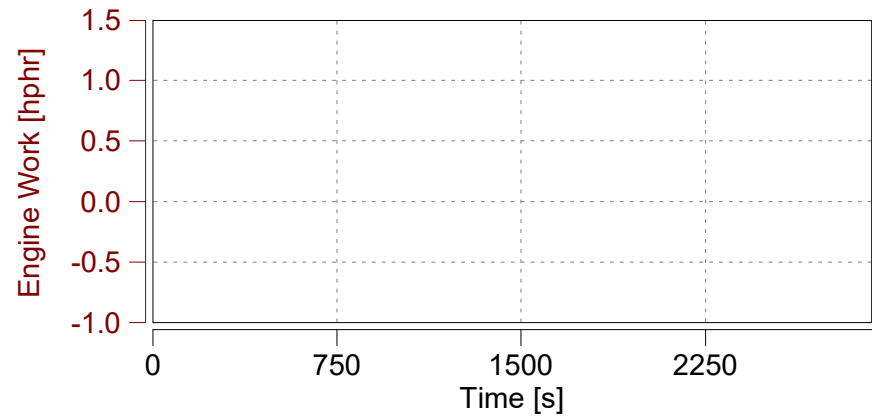
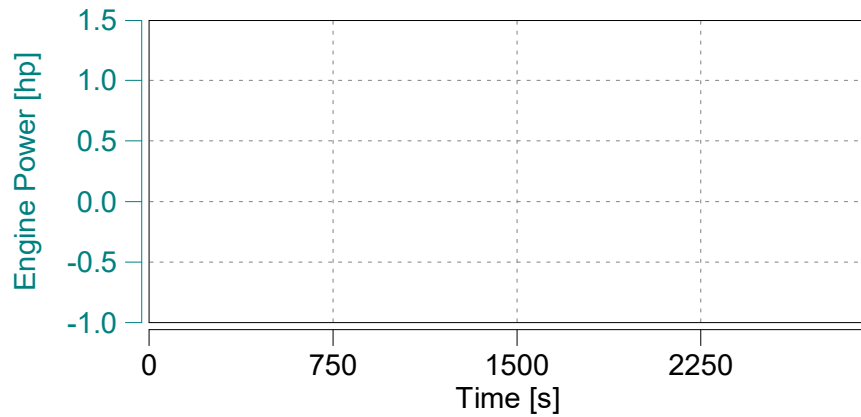
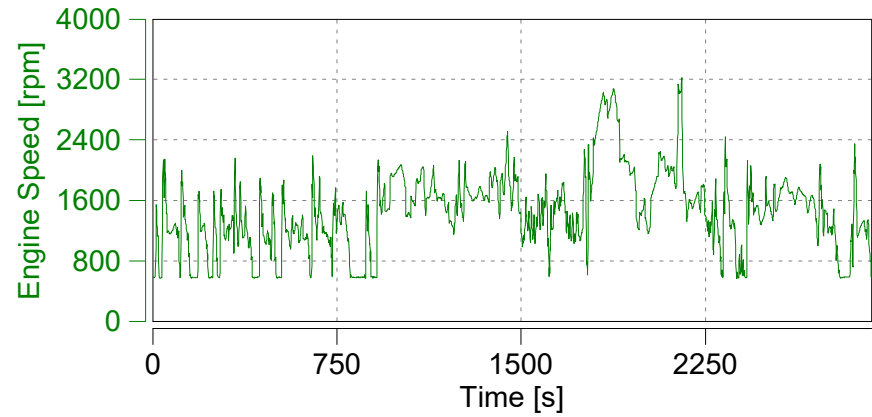
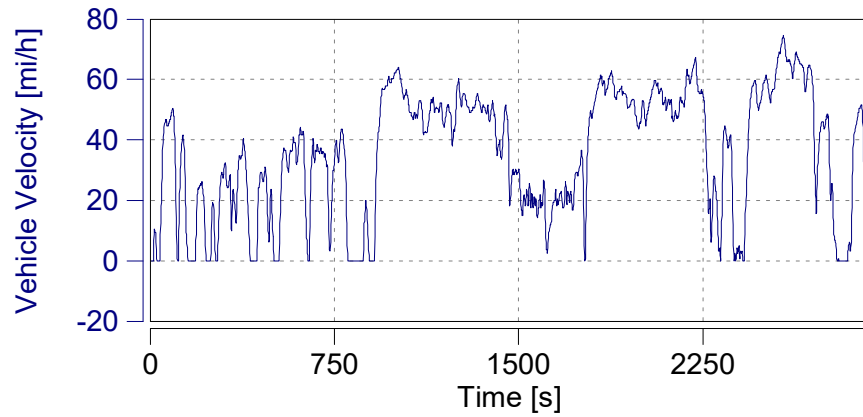
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



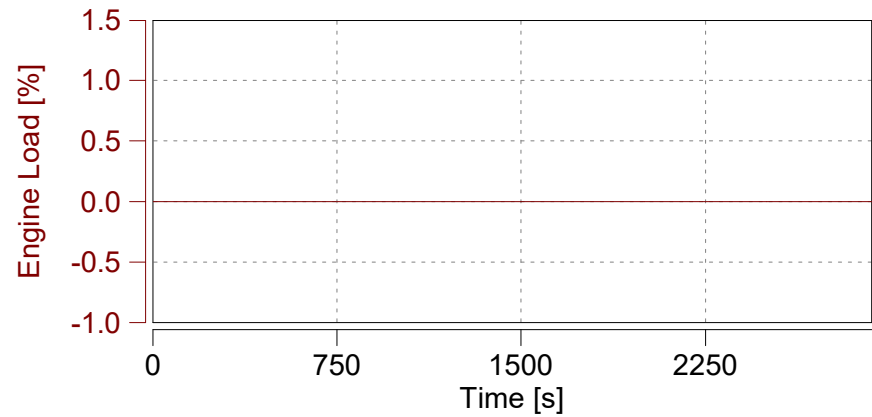
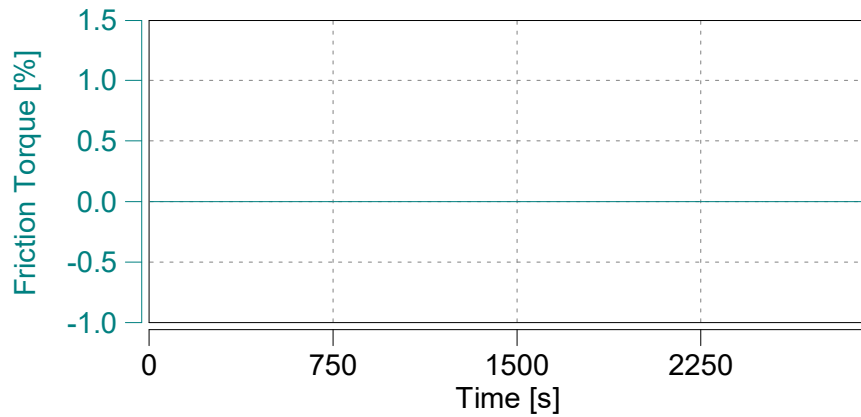
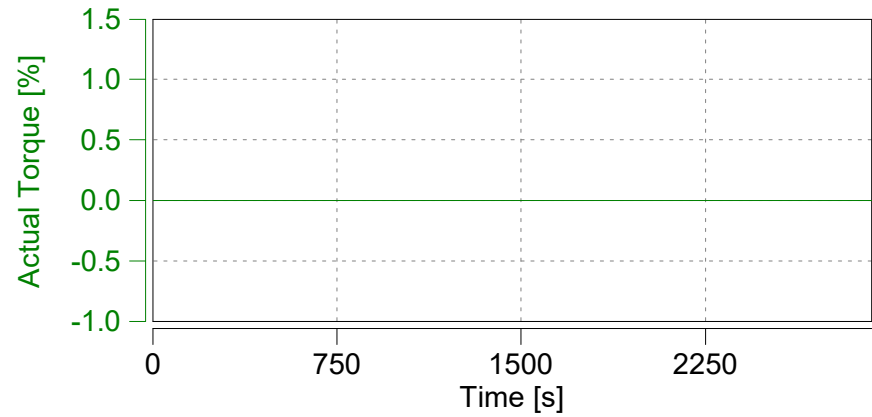
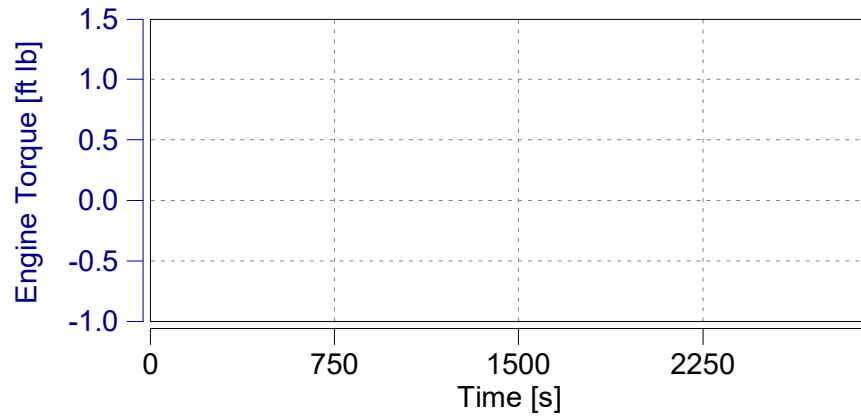
Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



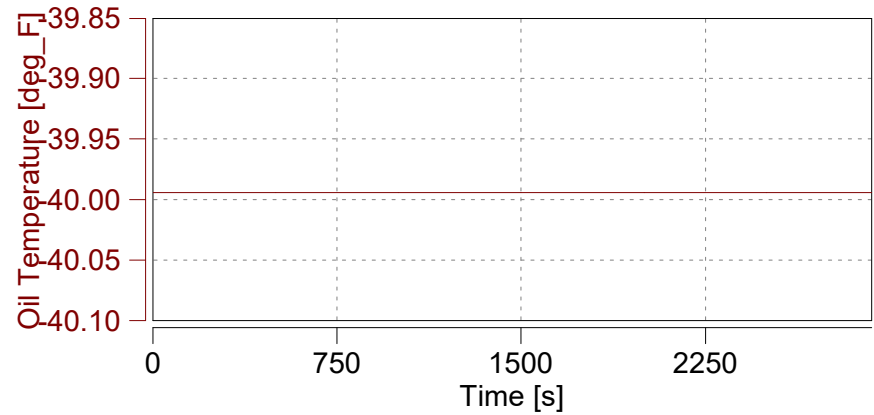
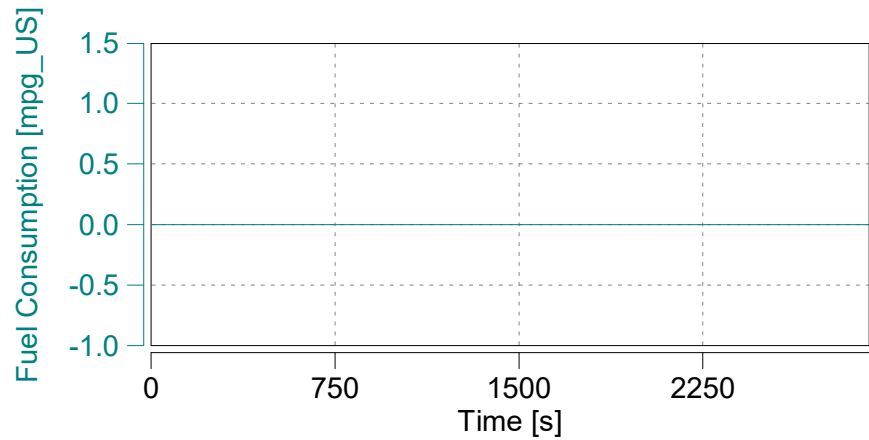
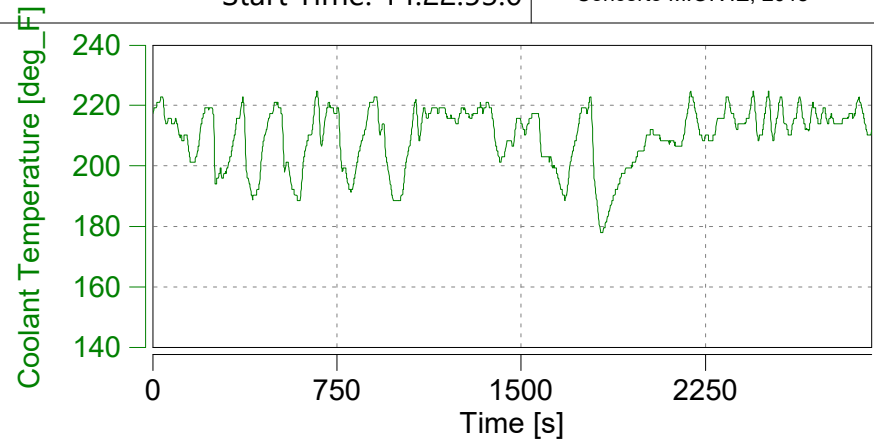
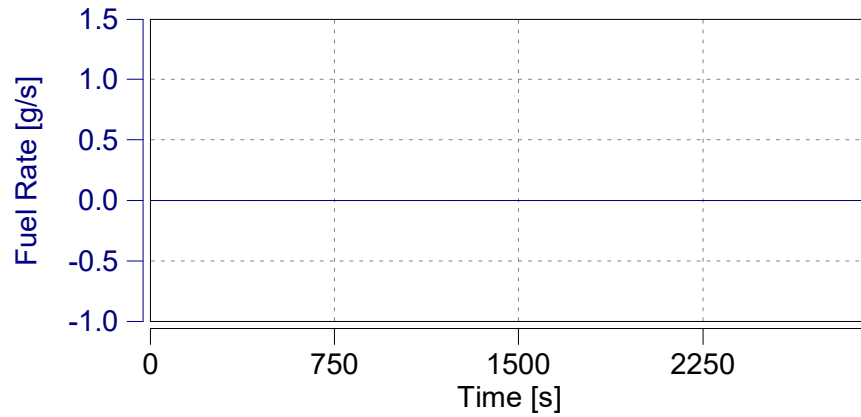
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



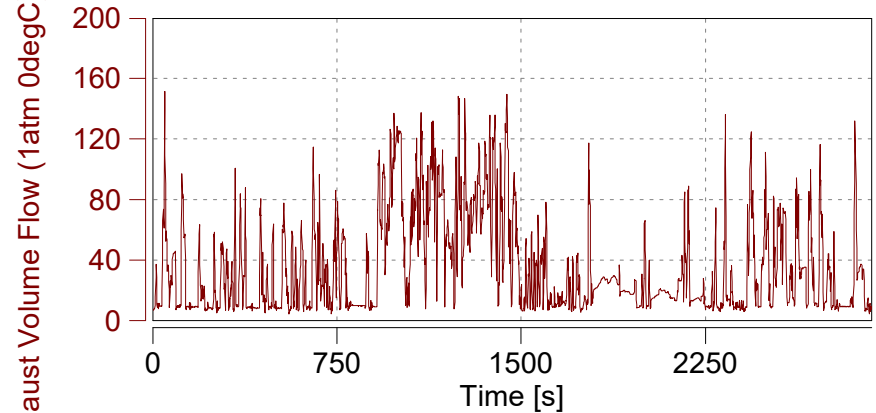
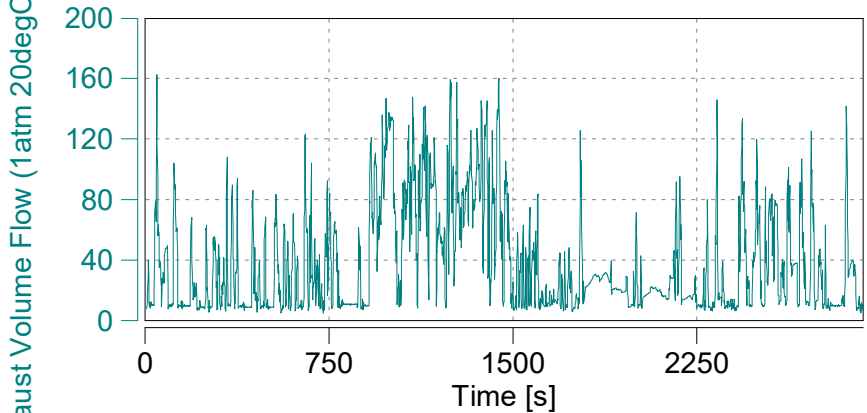
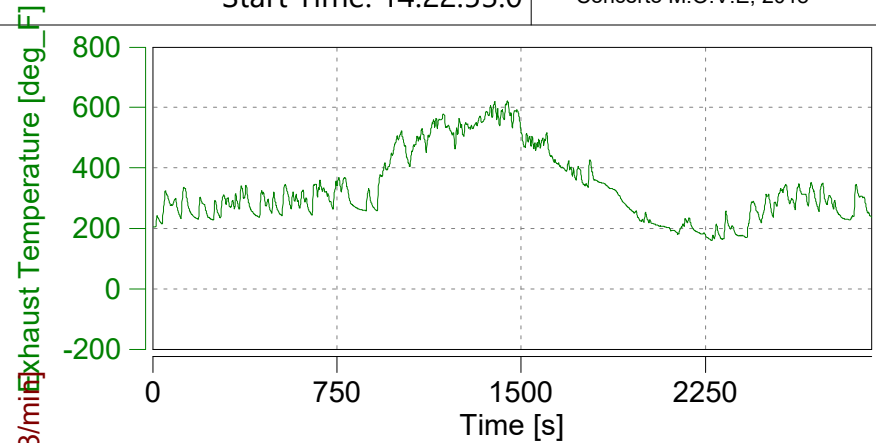
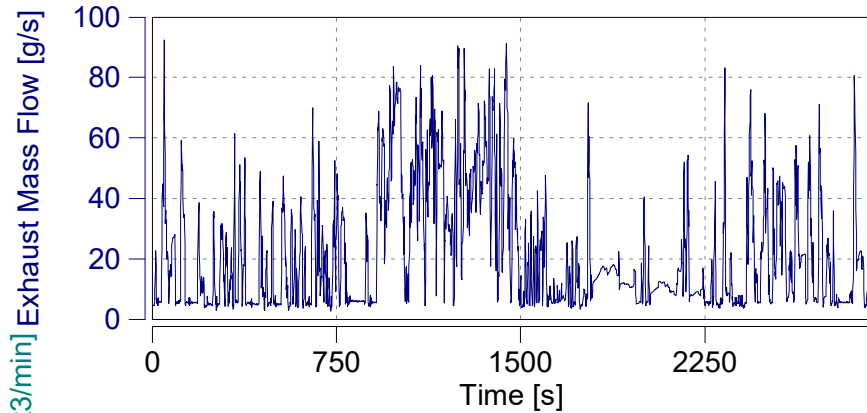
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



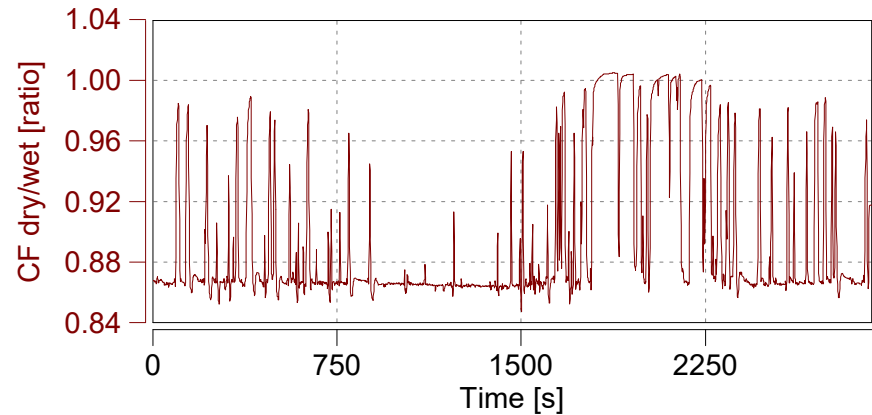
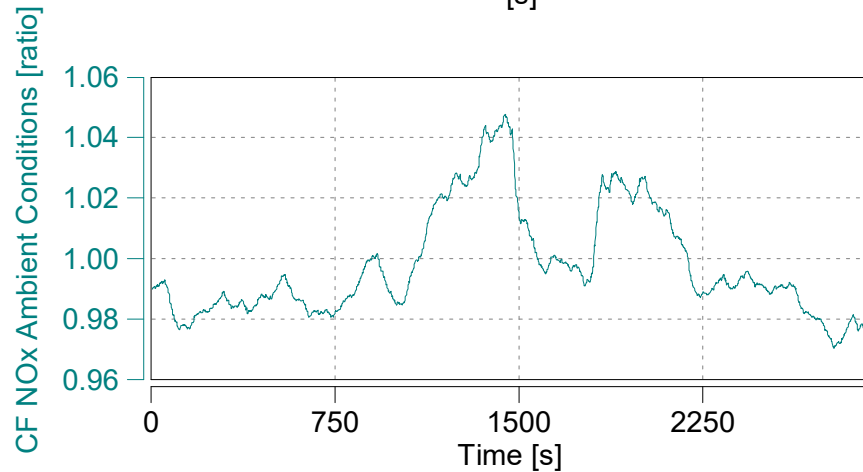
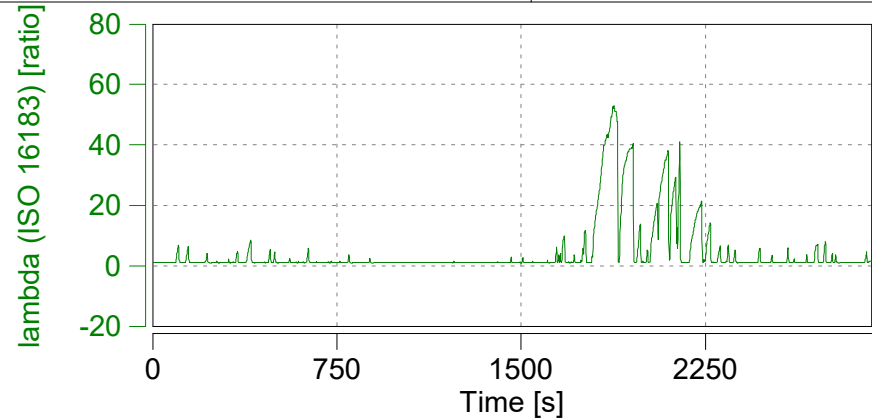
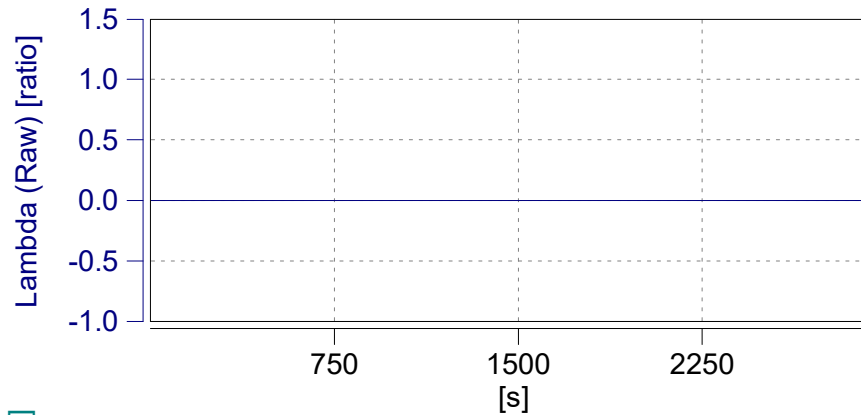
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



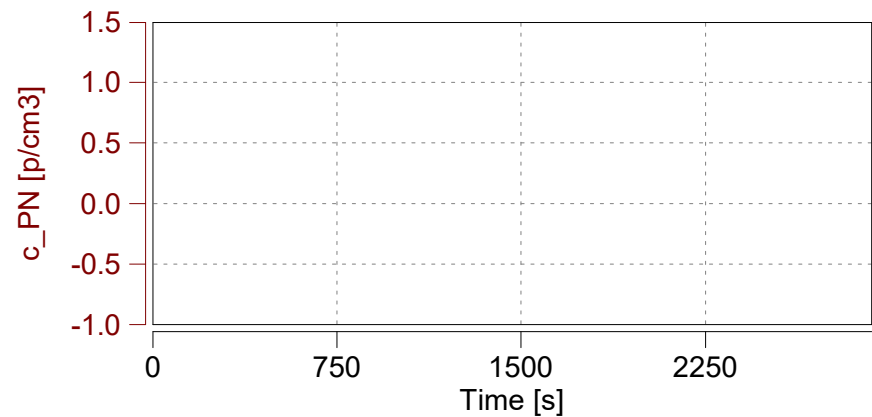
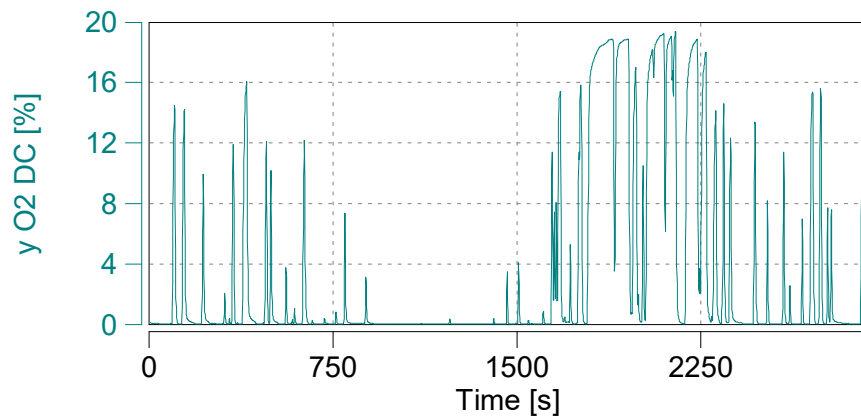
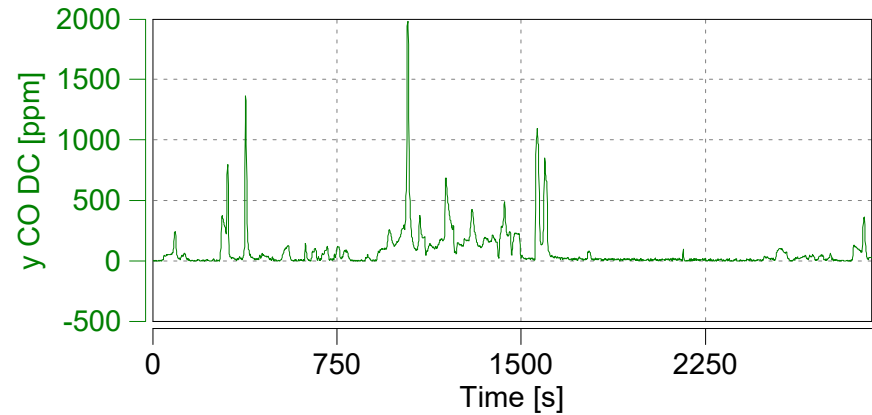
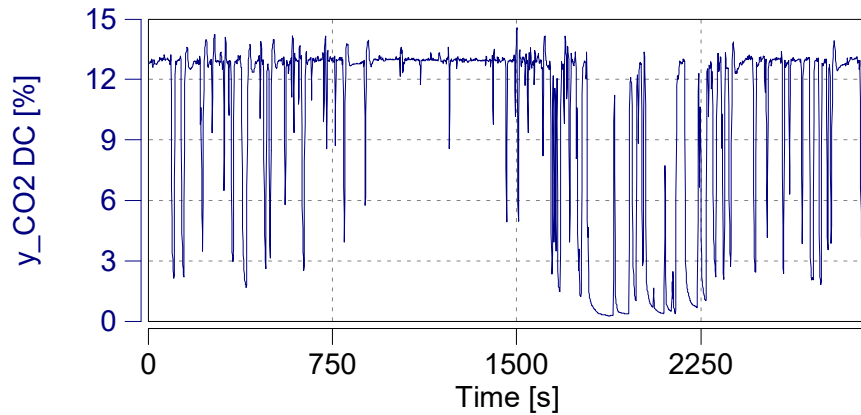
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

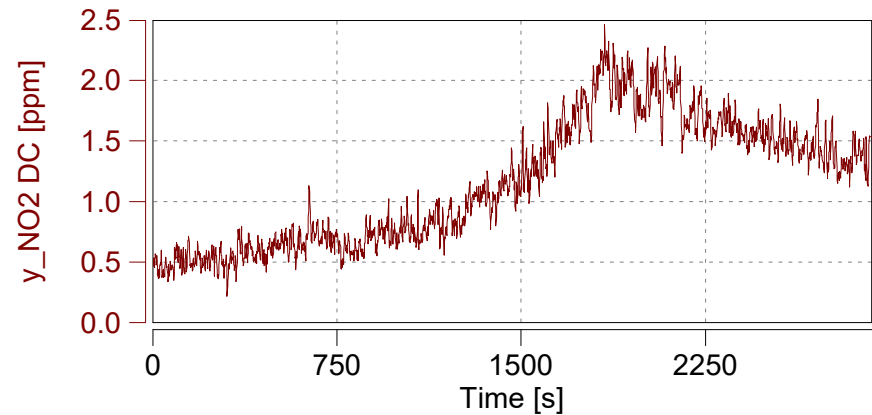
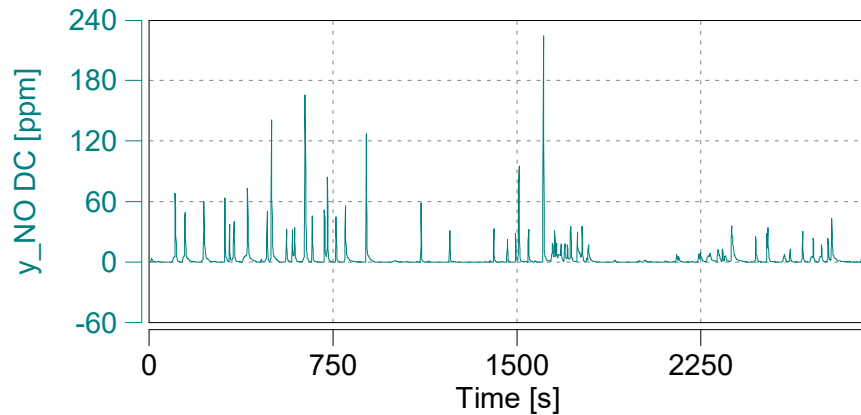
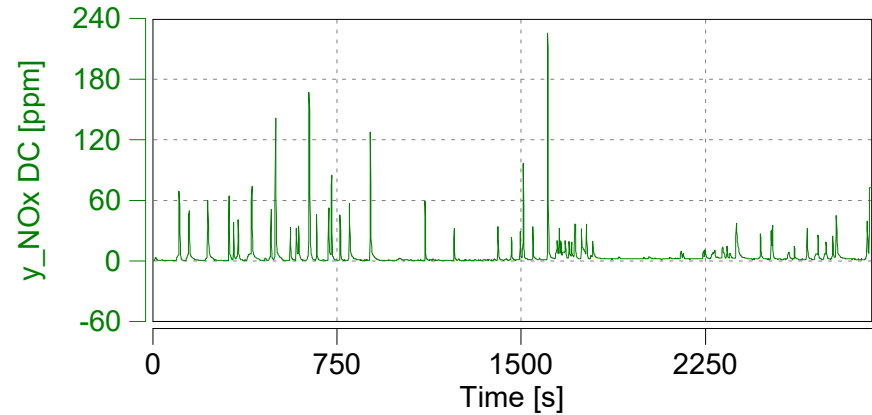
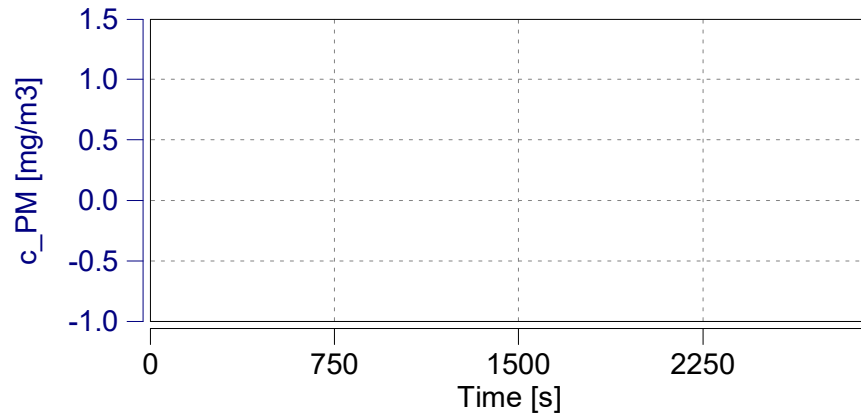
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Vehicle: SQ5 / 3.0 L

Engine: /

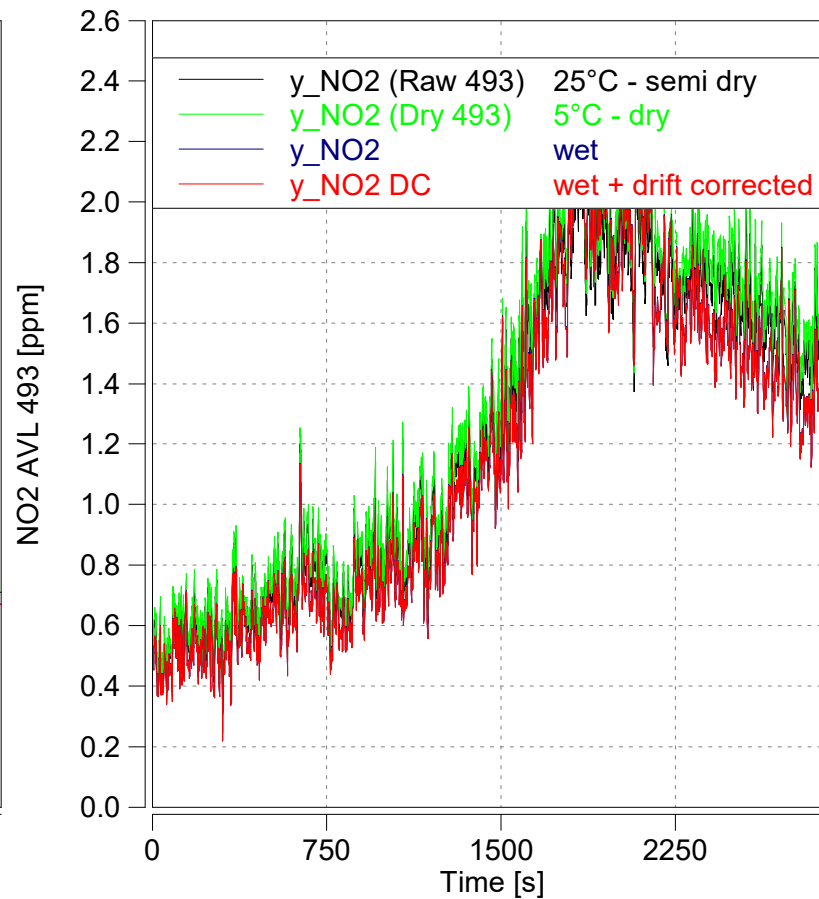
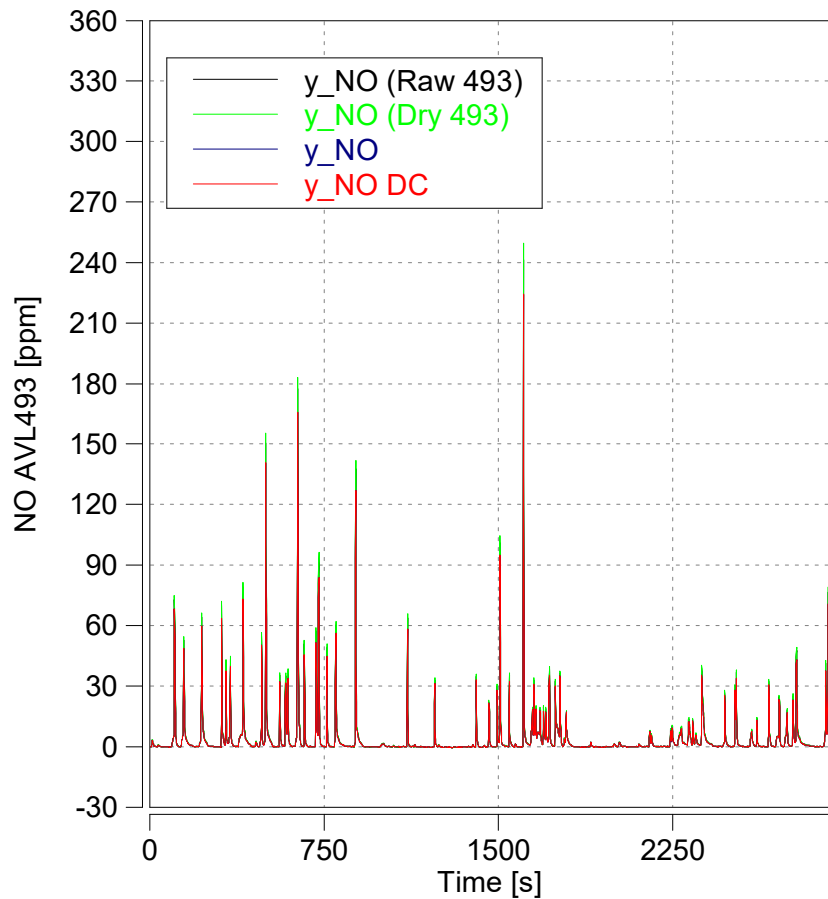
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

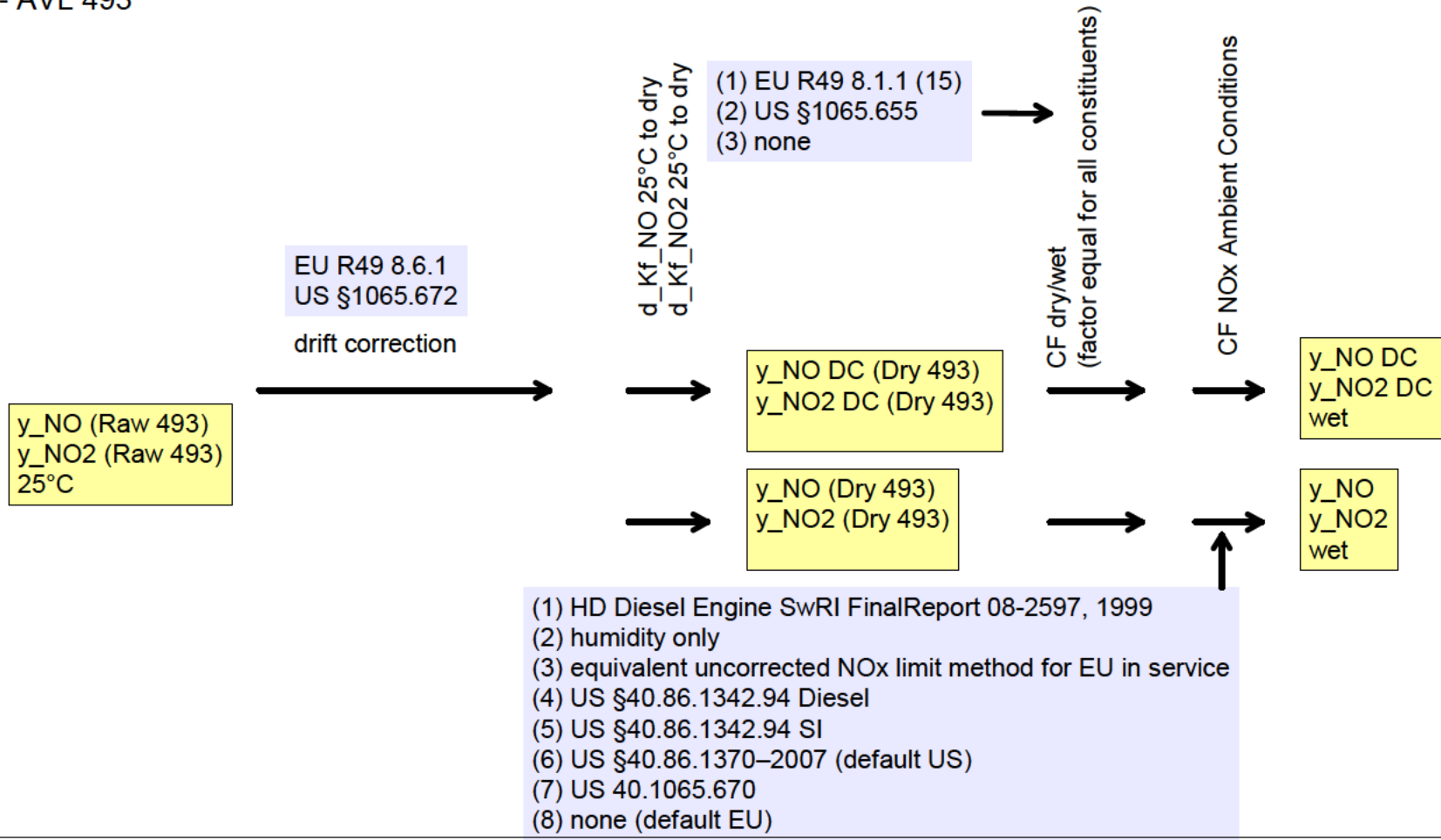


Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: SQ5 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Mountain

Page: Corrected Emissions (5)

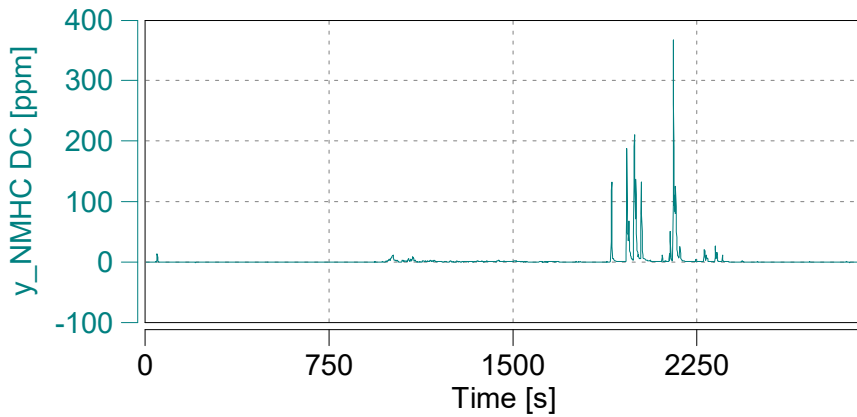
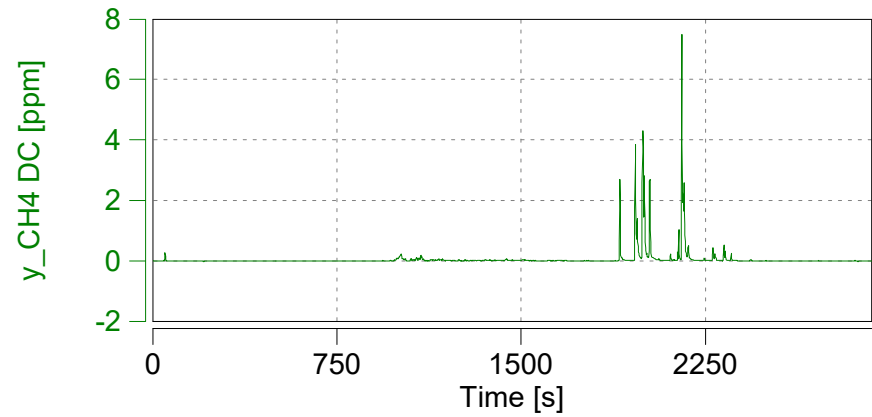
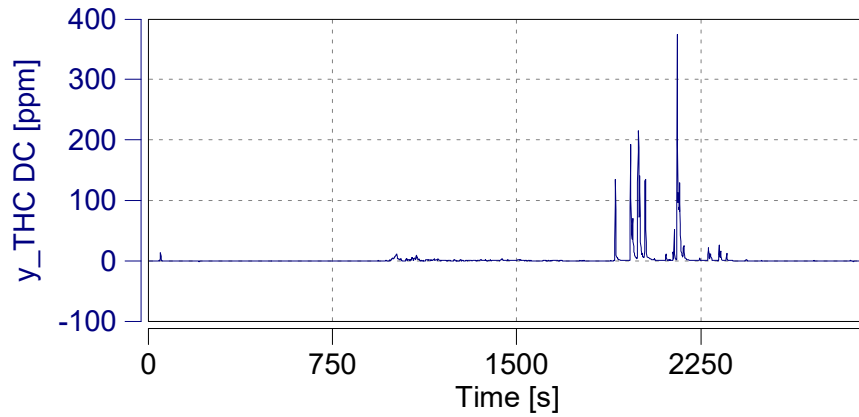
'Mountain'

Start Date: 08/05/2019

Start Time: 14:22:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

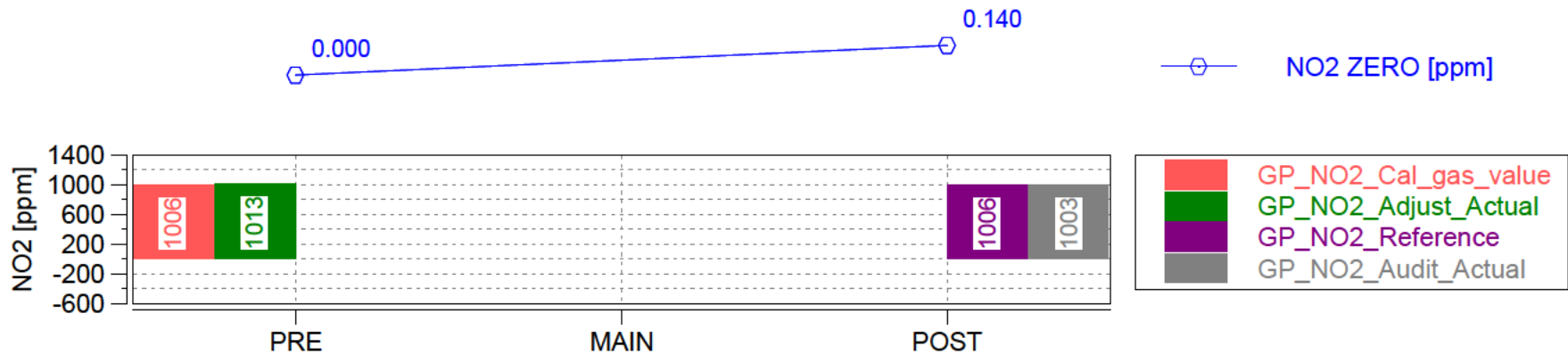
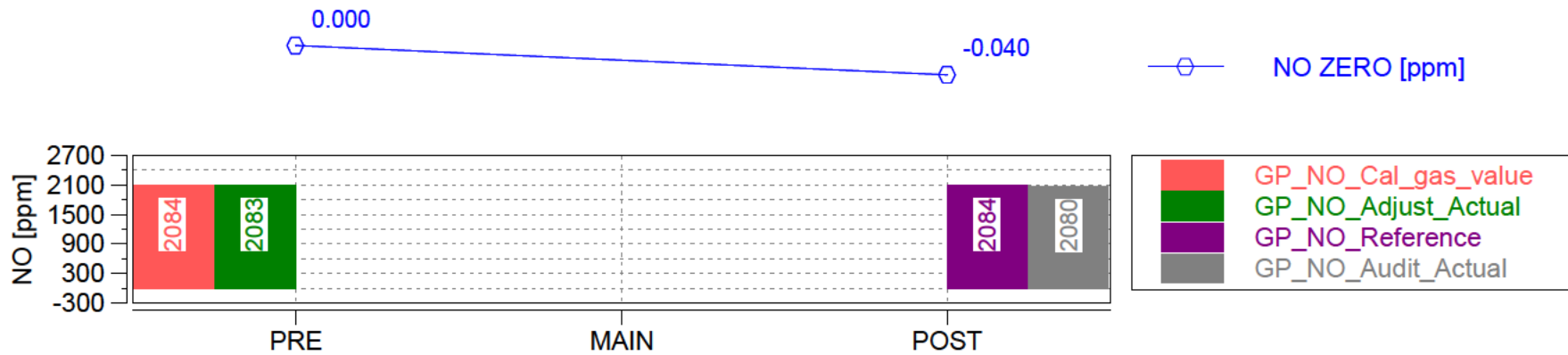
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Vehicle: SQ5 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

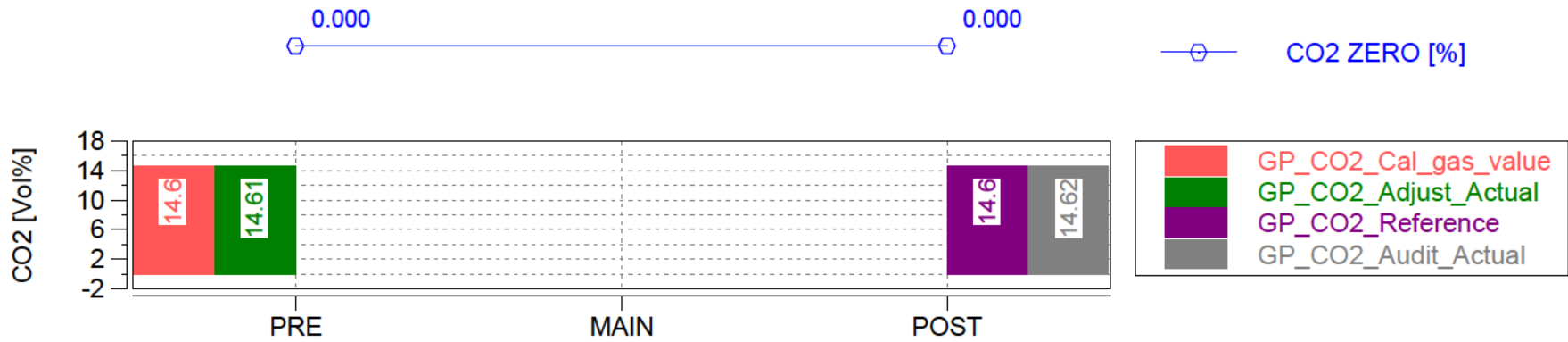
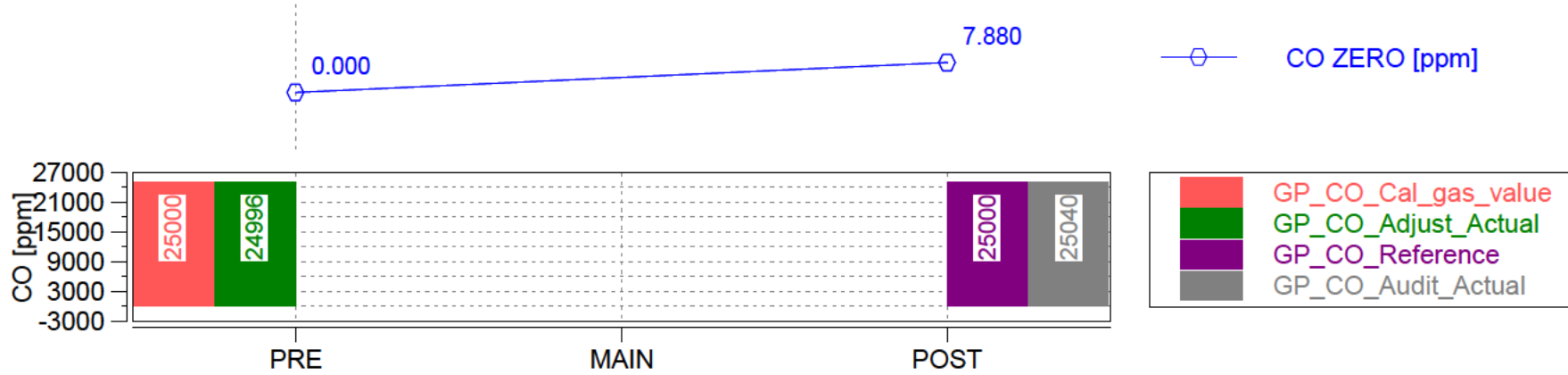
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Vehicle: SQ5 / 3.0 L

Engine: /

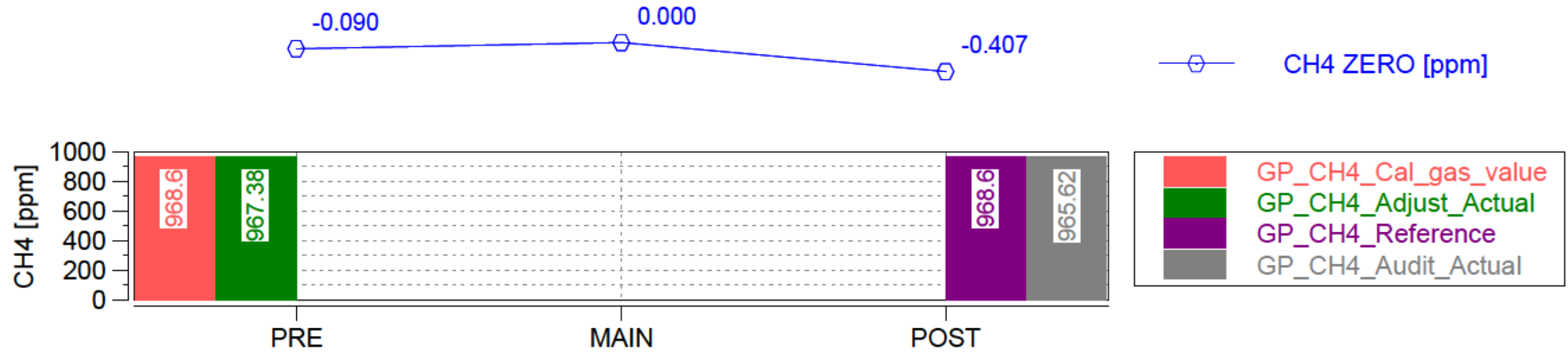
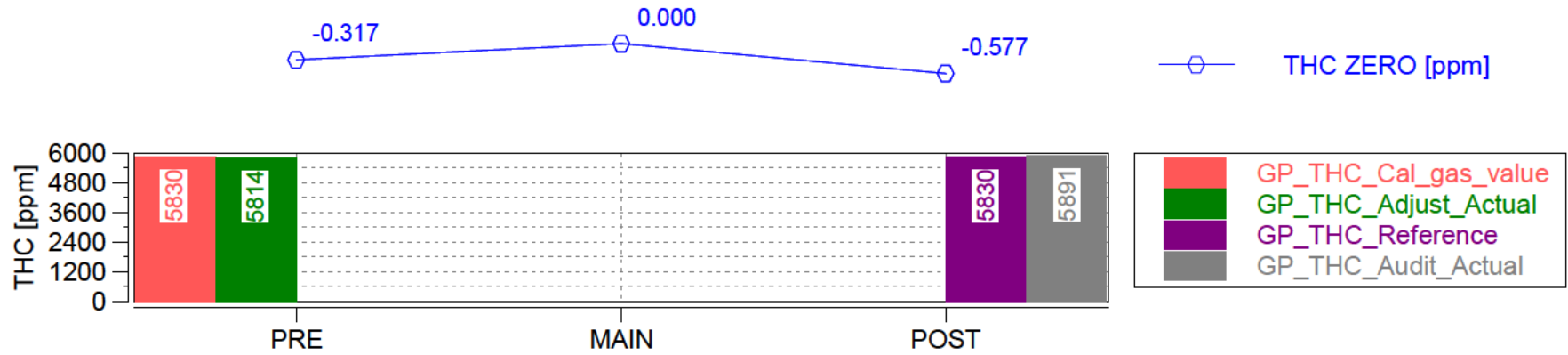
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City
Page: Trip Summary

'City'
Start Date: 08/08/2019
Start Time: 13:00:13.0



Trip Duration	5026.00	s	ave THC	0.71246	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	5026.00	s	ave NMHC	0.69821	ppm	BS CO	n/a	g/hphr
Trip Distance	15.76	mi	ave CH4	0.01425	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	15.76	mi	ave CO	3.02817	ppm	BS NMHC	n/a	g/hphr
			ave CO2	12.01291	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx	2.88481	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.89	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.86	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC	0.01998	g	BS PN	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.02	gall	tot NMHC	0.01848	g			
Trip Fuel Cons. Volume US (ac)	1.01	gall	tot CH4	0.00044	g	DS CO2	553.05305	g/mi
			tot CO	0.15149	g	DS CO	0.00961	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2	8717.28351	g	DS THC	0.00127	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO (d)	0.17494	g	DS NMHC	0.00117	g/mi
Trip Fuel Economy EU (ac)	15.42	mpg_US	tot NO2	0.00013	g	DS CH4	0.00003	g/mi
Trip Fuel Economy US (ac)	15.57	mpg_US	tot NOx	0.17506	g	DS NO (d)	0.01110	g/mi
			tot Soot	n/a	g	DS NO2	0.00001	g/mi
Trip Av. Eng. Speed	922.27	rpm	tot Soot meas	n/a	g	DS NOx	0.01111	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN	n/a	#/mi
Trip Exhaust Mass	47.78	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
Trip Av. Amb. Temperature	73.59	deg_F				FS NMHC	n/a	g/kg
Trip Av. Humidity	60.79	%	Trip Av. Veh. Speed	11.29199	mi/hr	FS CH4	n/a	g/kg
			Trip Velocity Zero	36.39077	%	FS NO (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E, 2018

Trip Duration	5026.00	s	ave THC DC	0.65400	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	5026.00	s	ave NMHC DC	0.64092	ppm	BS CO DC	n/a	g/hphr
Trip Distance	15.76	mi	ave CH4 DC	0.01308	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	15.76	mi	ave CO DC	3.02792	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.01291	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	2.91932	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.89	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.86	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.02	gall	tot THC DC	0.01860	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.01	gall	tot NMHC DC	0.01720	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00041	g	DS CO2 DC	553.05305	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	0.15148	g	DS CO DC	0.00961	g/mi
Trip Fuel Economy EU (ac)	15.42	mpg_US	tot CO2 DC	8717.28351	g	DS THC DC	0.00118	g/mi
Trip Fuel Economy US (ac)	15.57	mpg_US	tot NO DC (d)	0.17704	g	DS NMHC DC	0.00109	g/mi
Trip Av. Eng. Speed	922.27	rpm	tot NO2 DC	0.00013	g	DS CH4 DC	0.00003	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.17716	g	DS NO DC (d)	0.01123	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00001	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.01124	g/mi
Trip Exhaust Mass	47.78	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	73.59	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	60.79	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	11.29199	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	36.39077	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Time Alignment Check

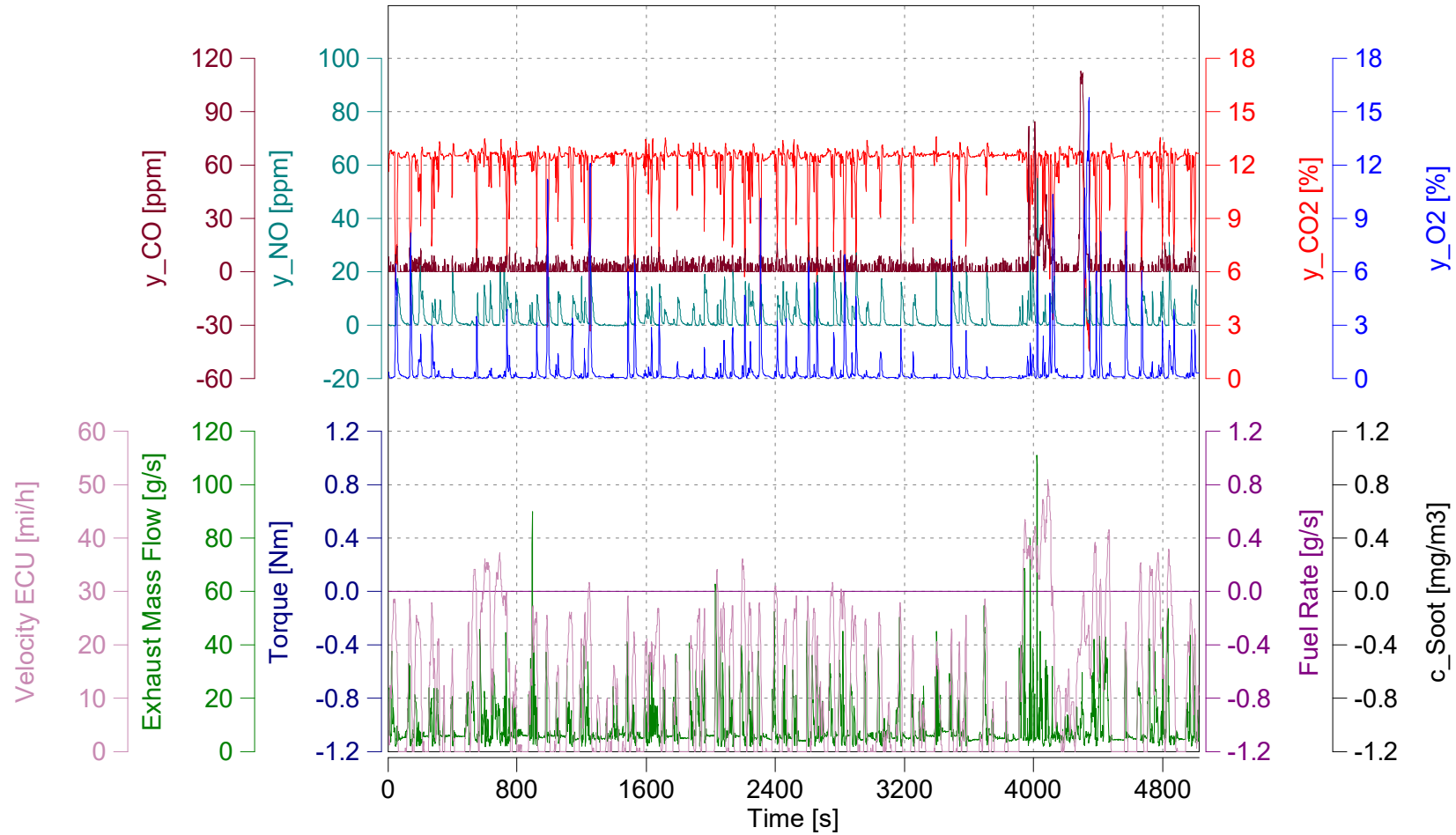
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

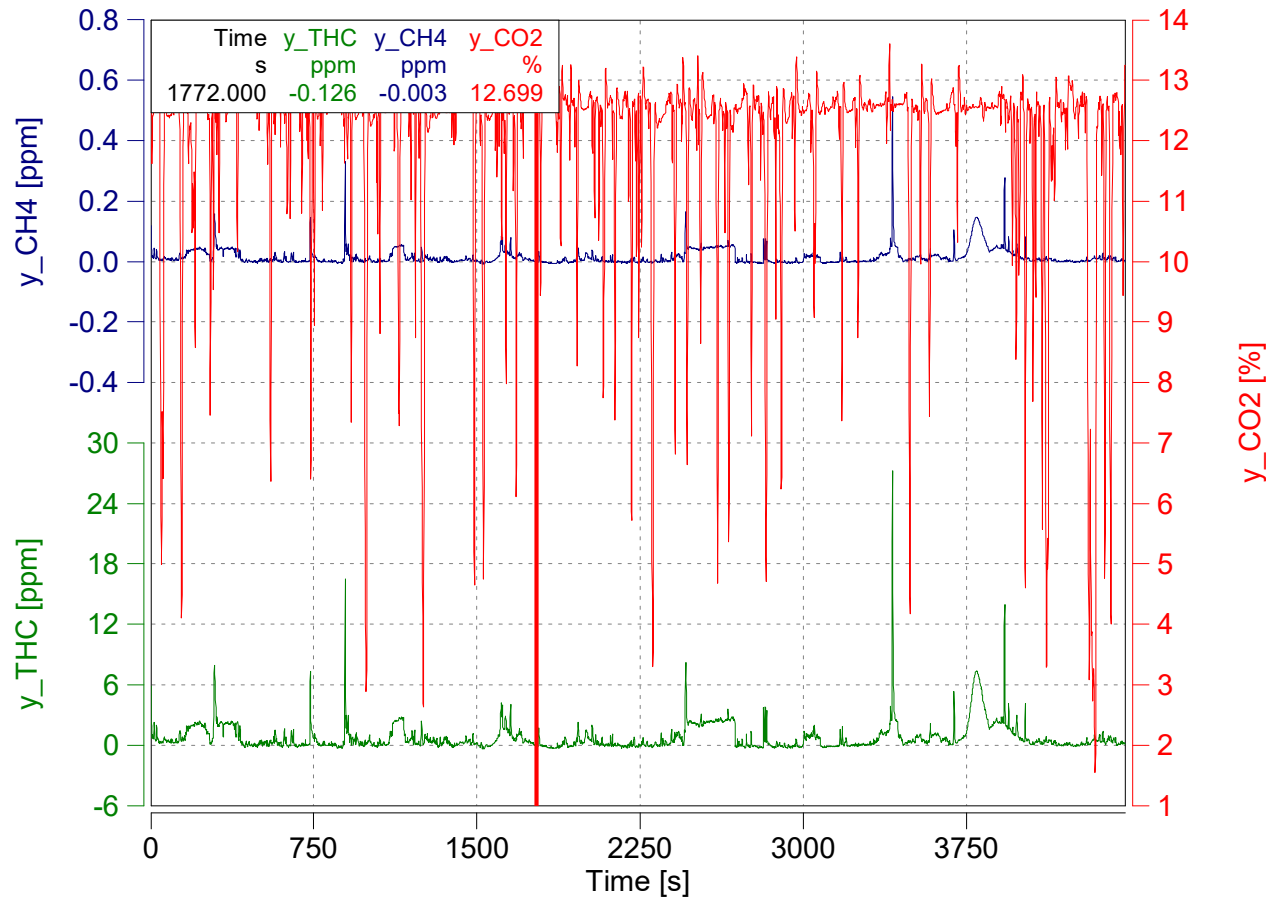
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120

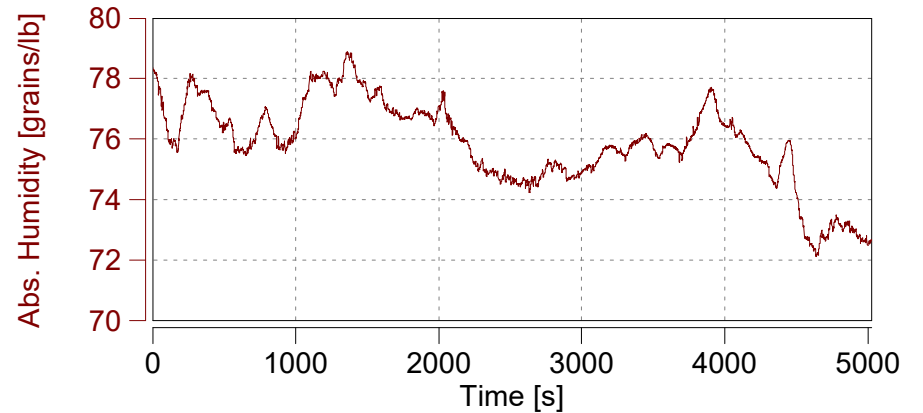
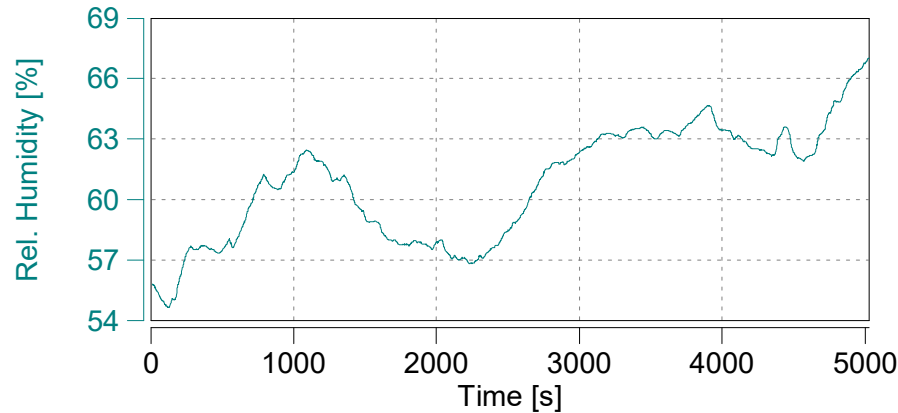
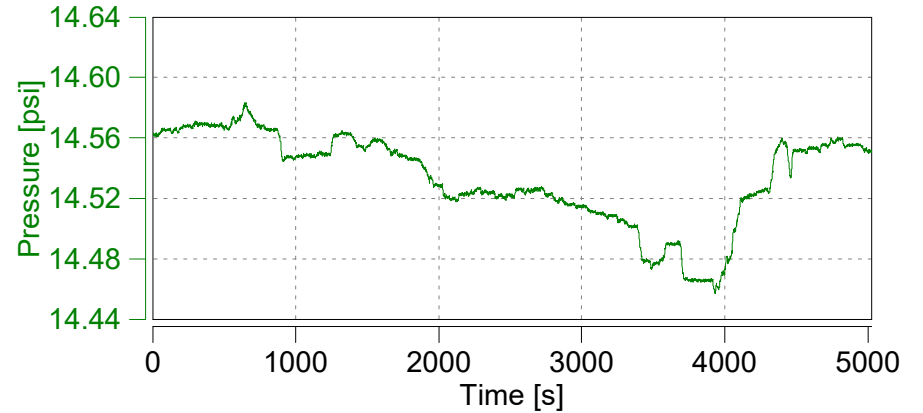
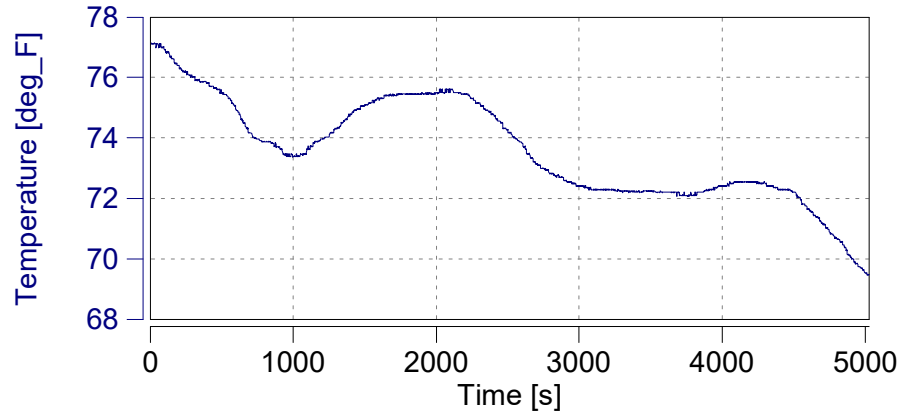
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Vehicle: A6 / 3.0 L

Engine: /

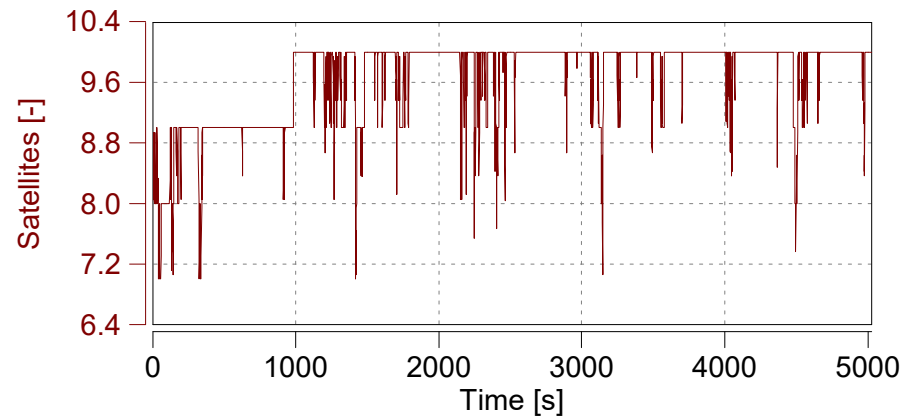
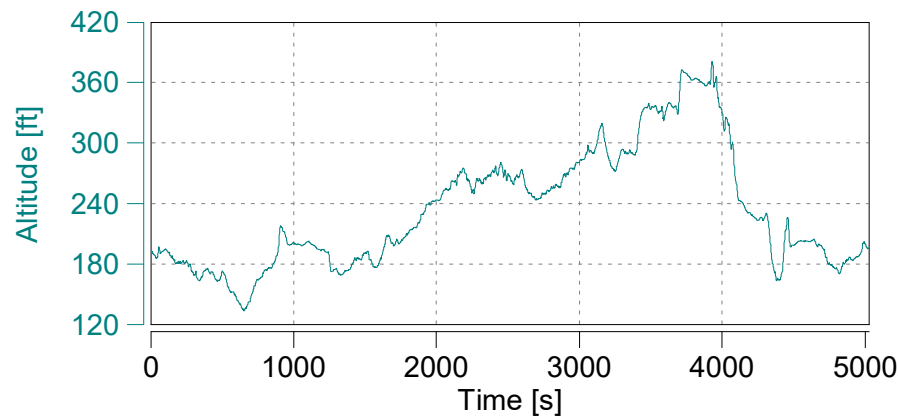
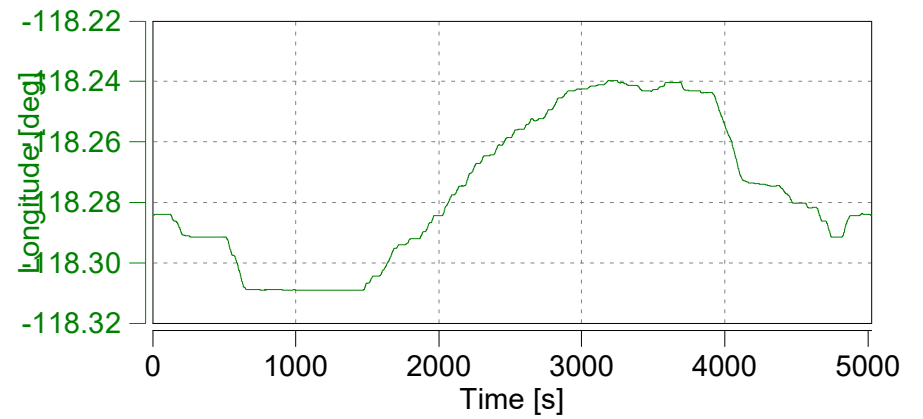
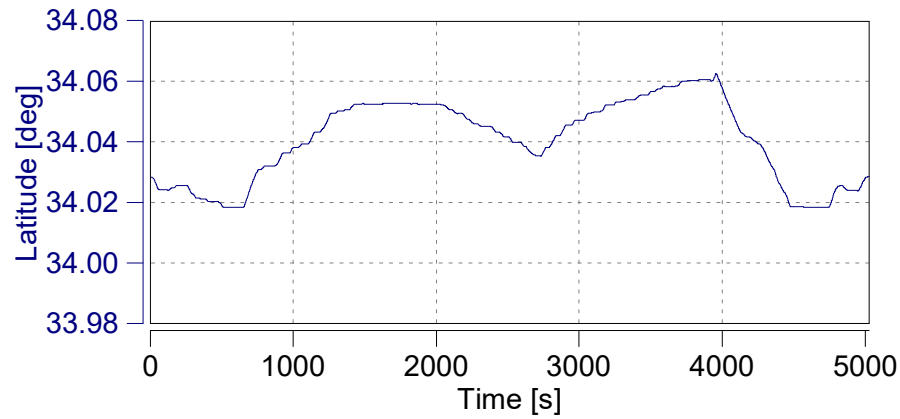
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (1)

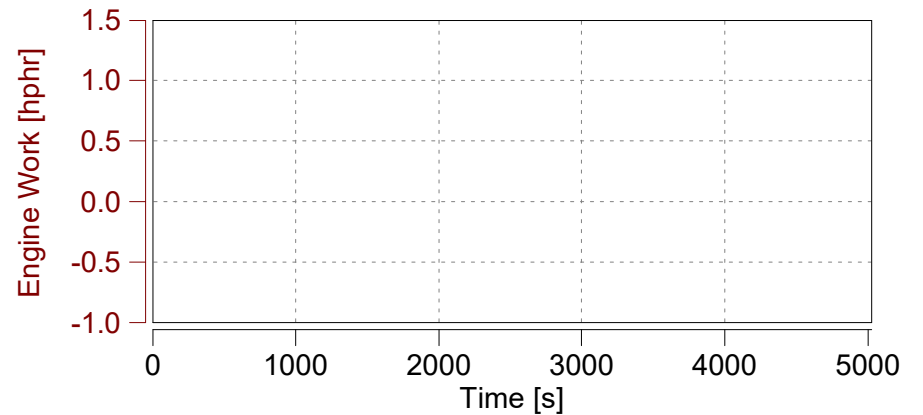
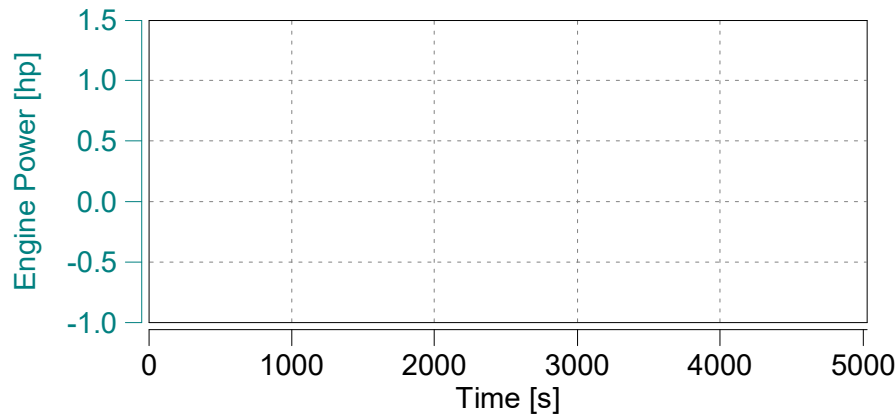
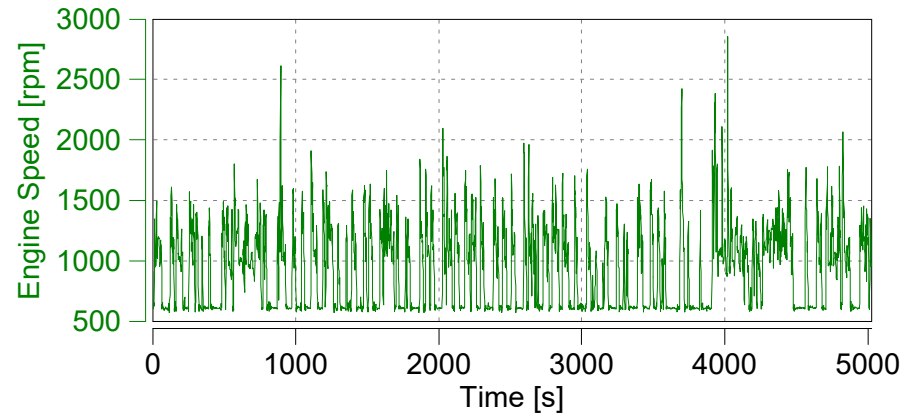
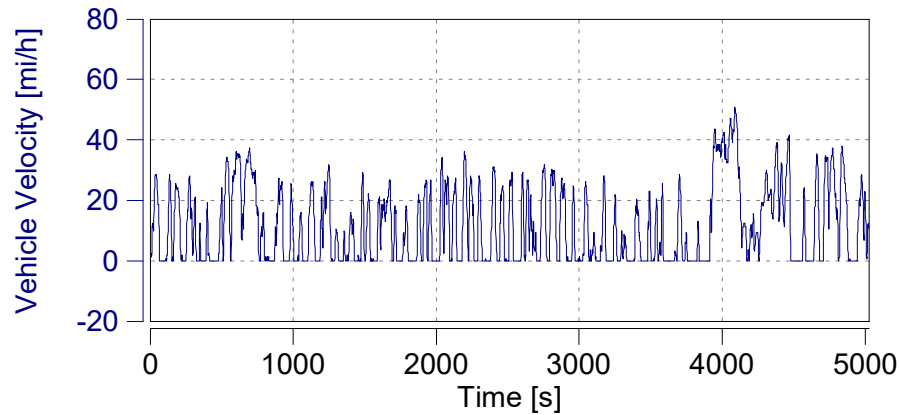
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0

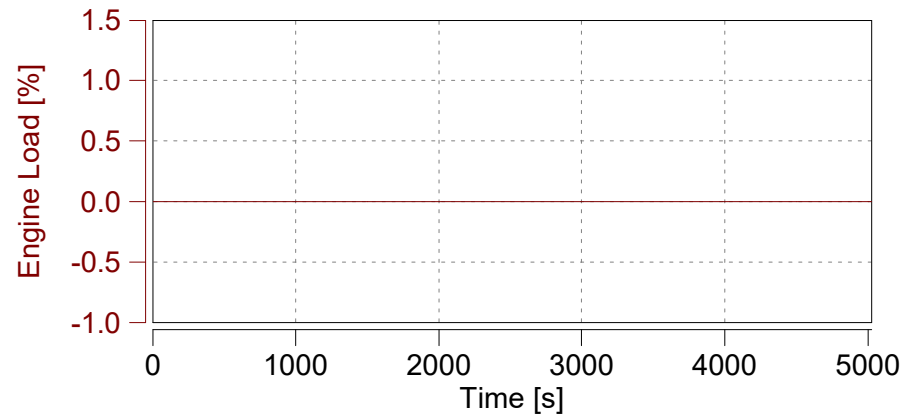
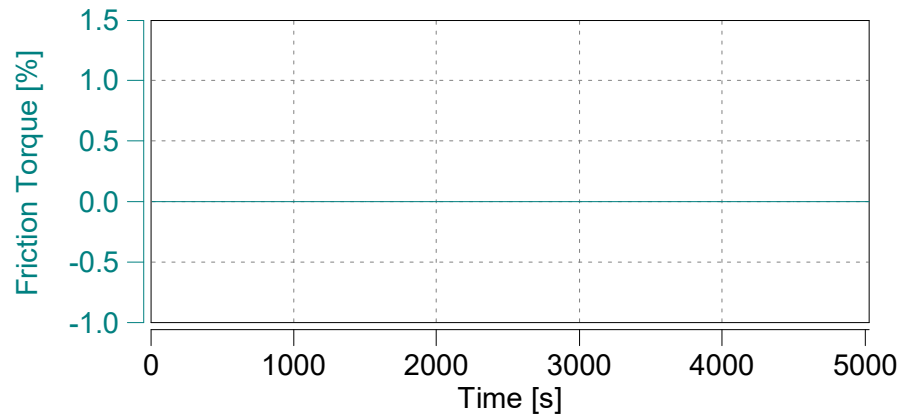
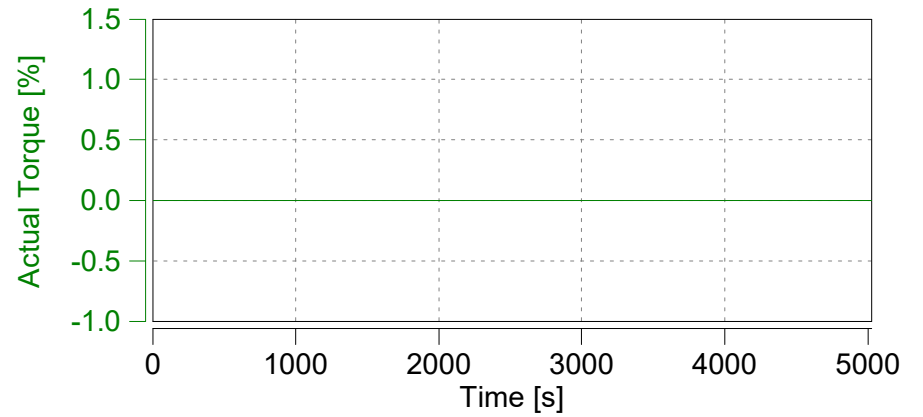
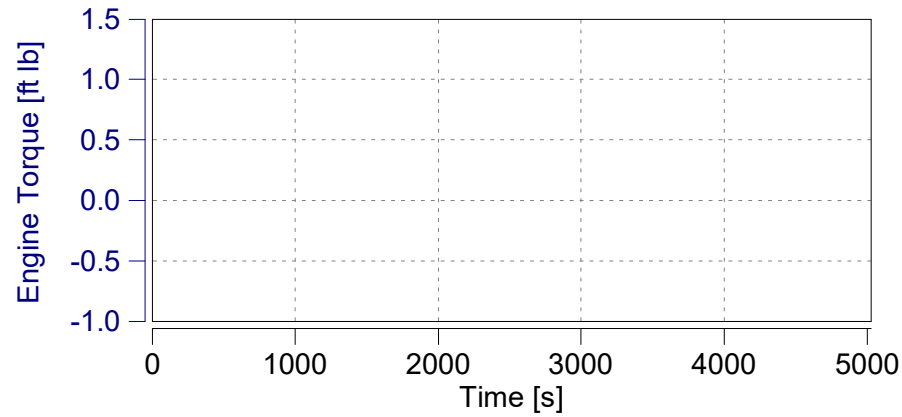


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (3)

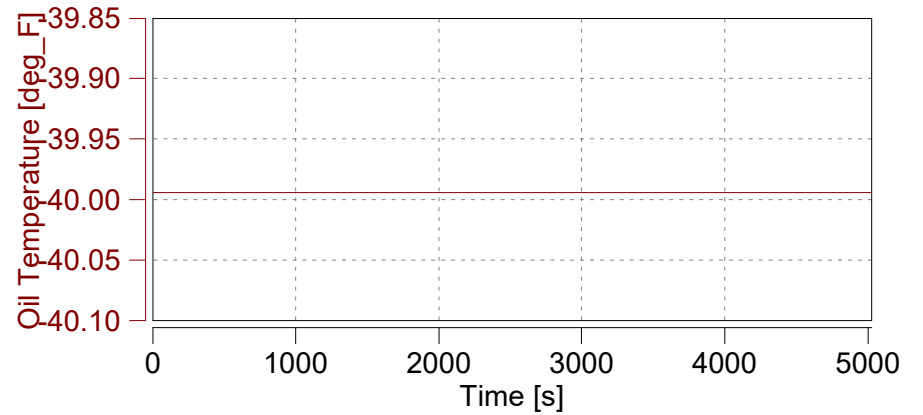
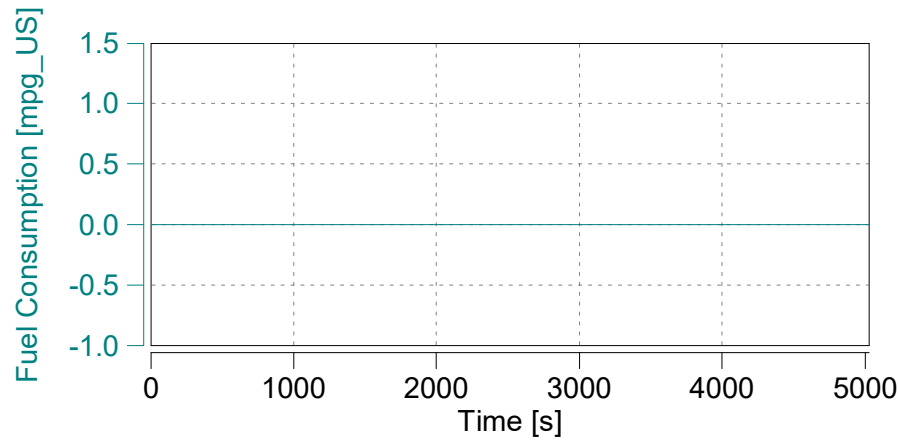
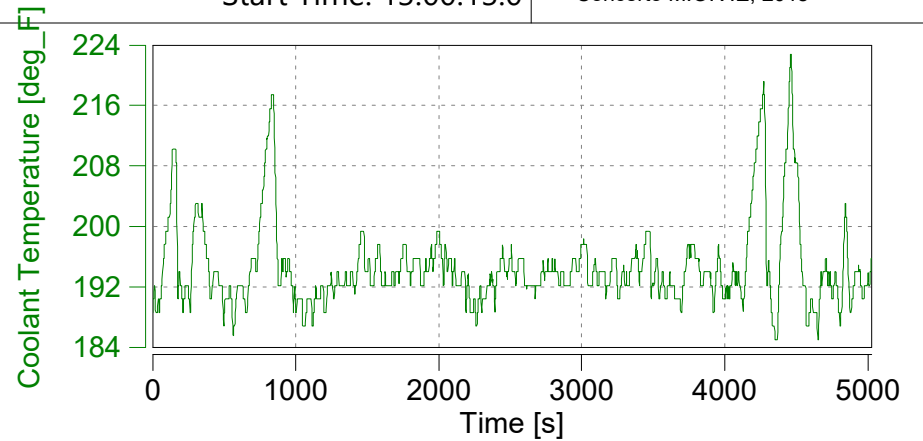
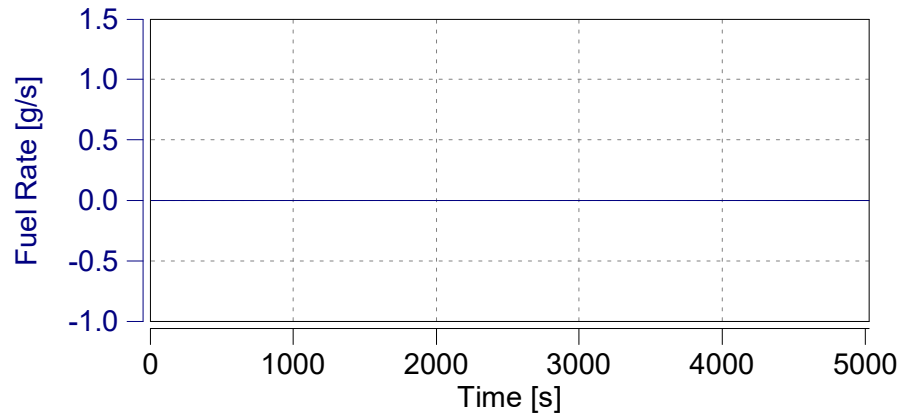
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

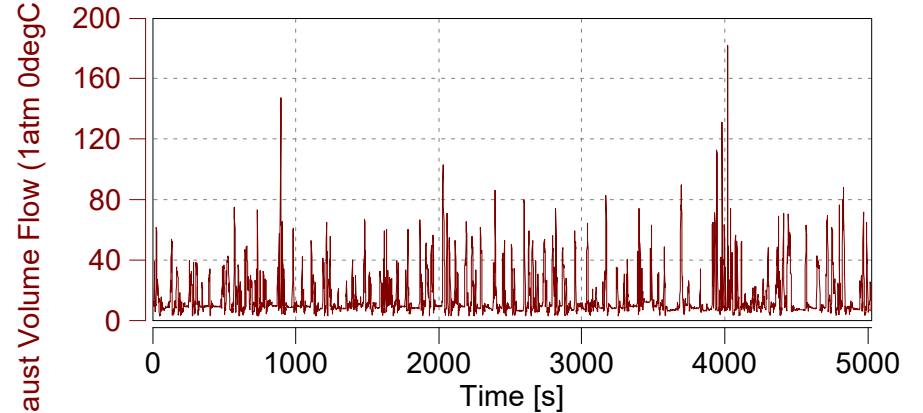
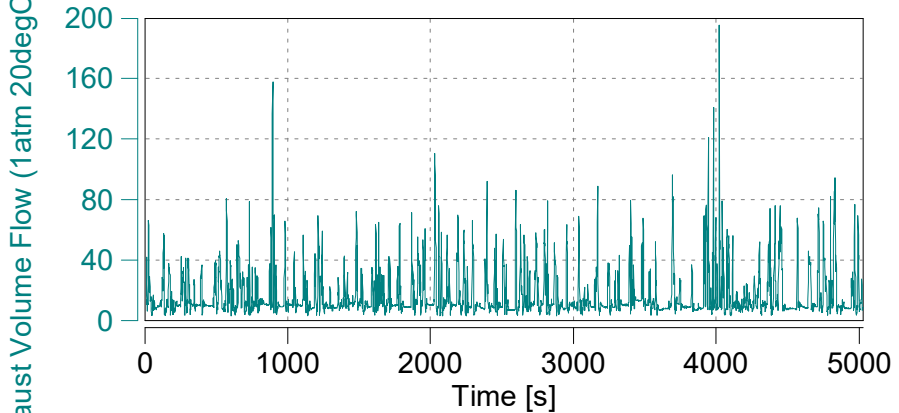
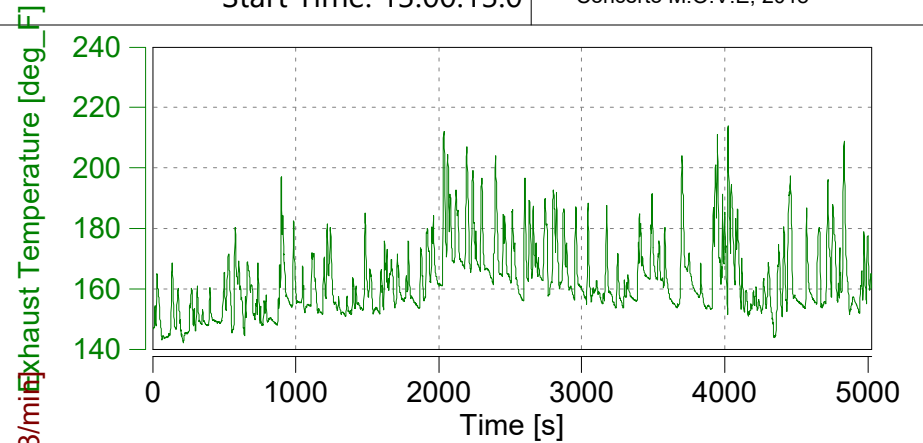
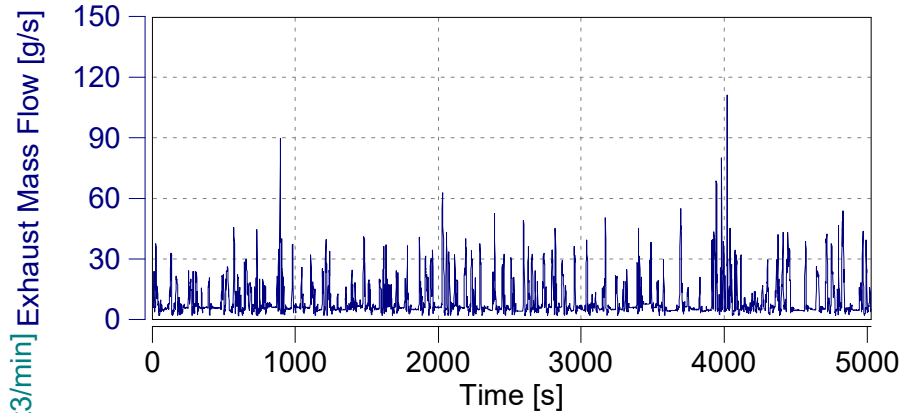
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (2)

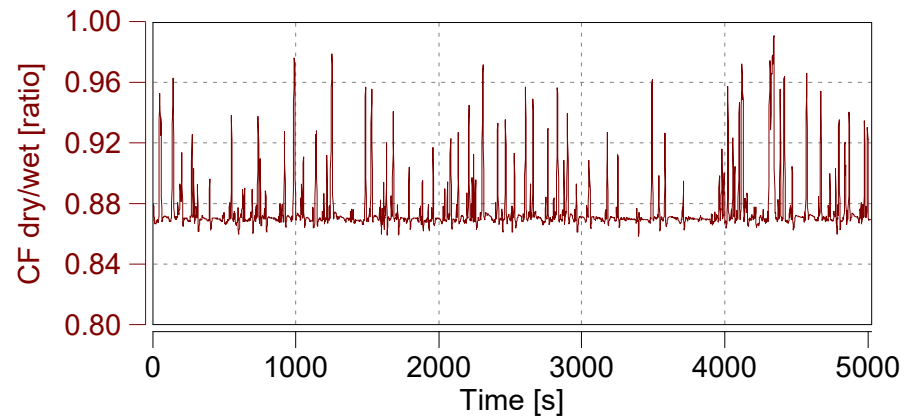
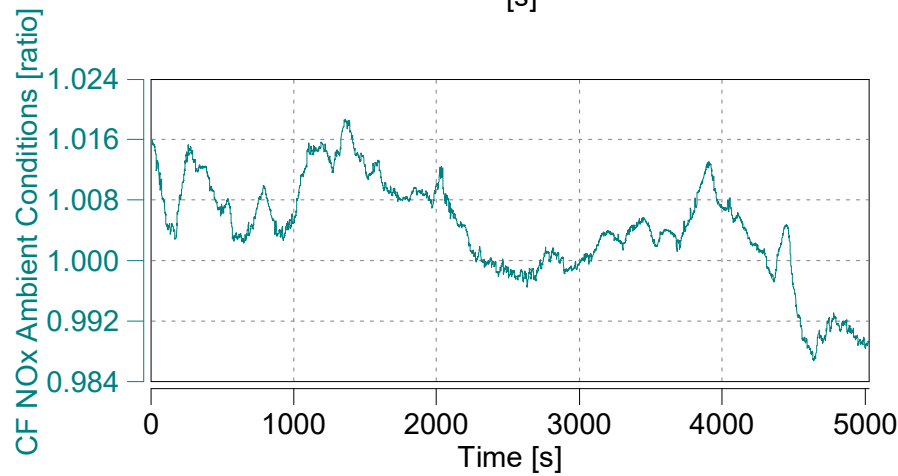
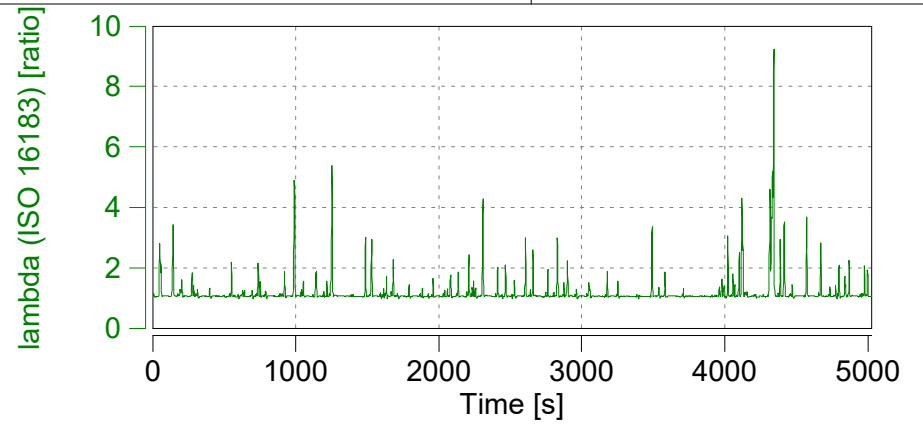
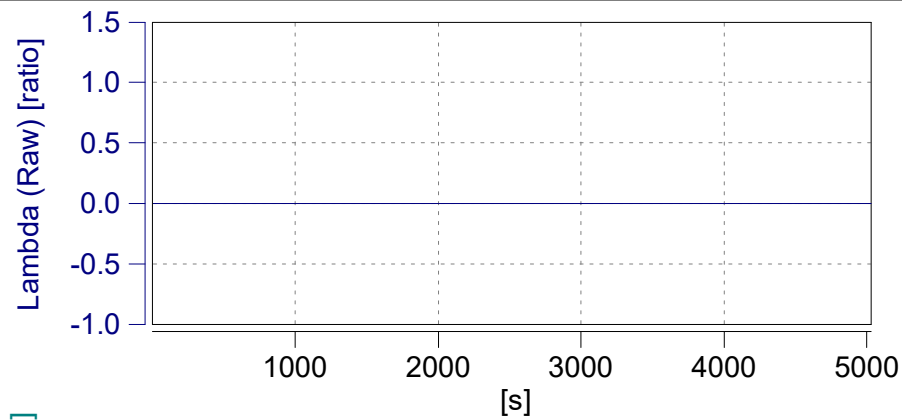
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

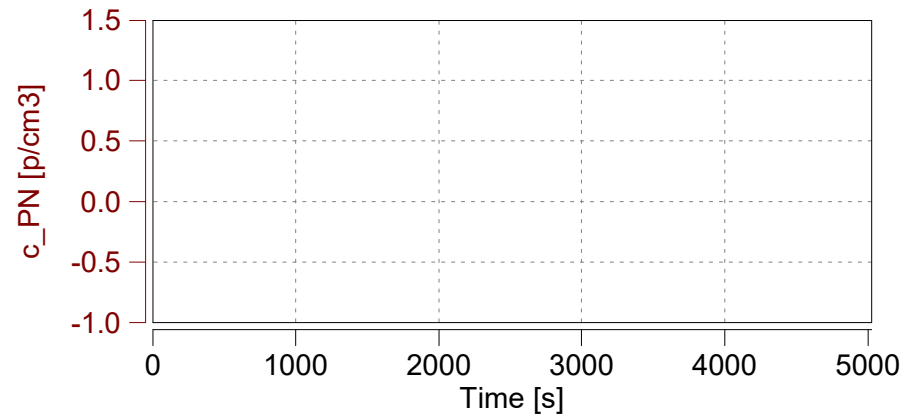
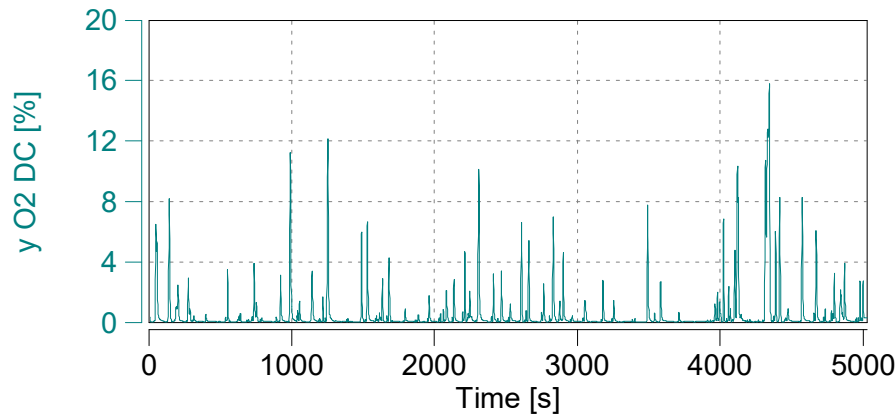
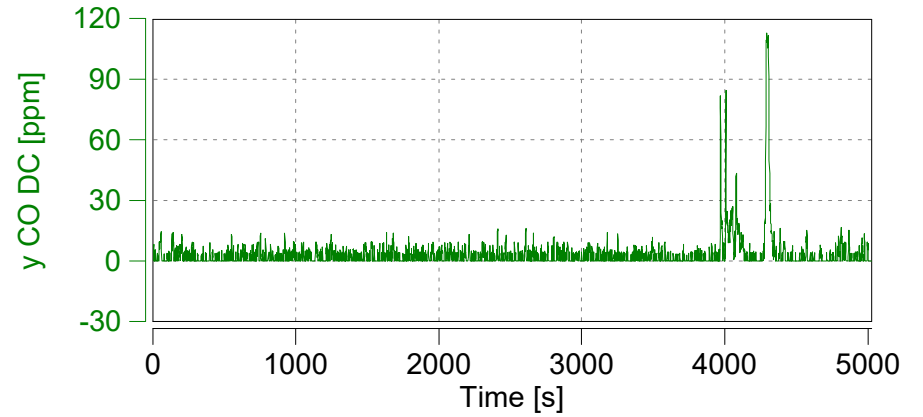
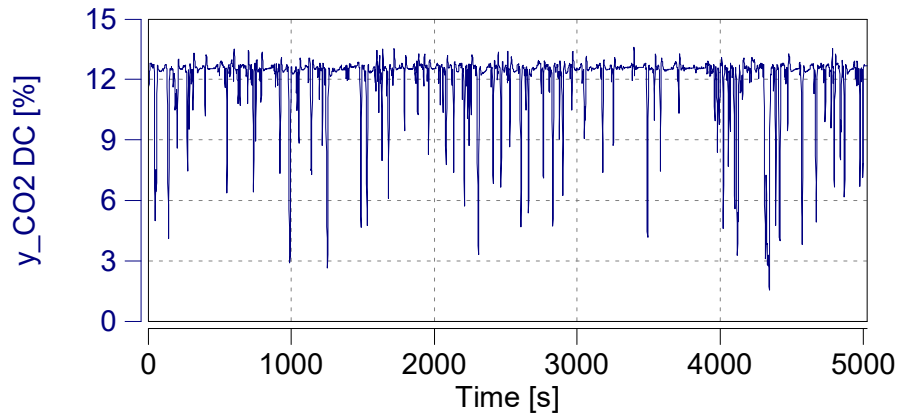
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

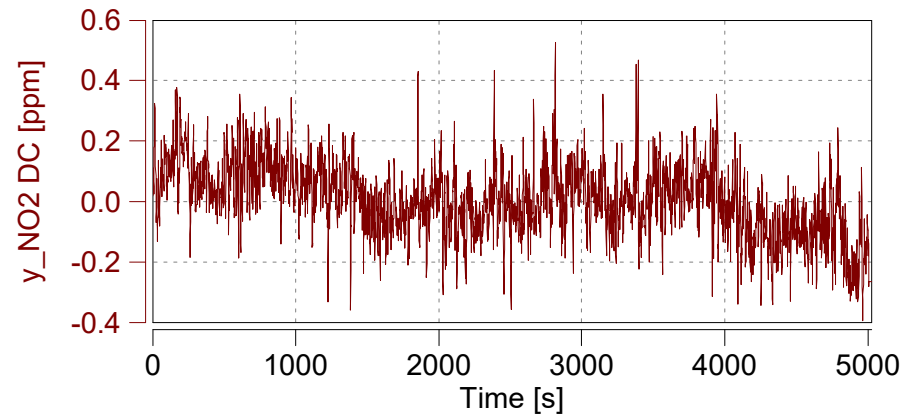
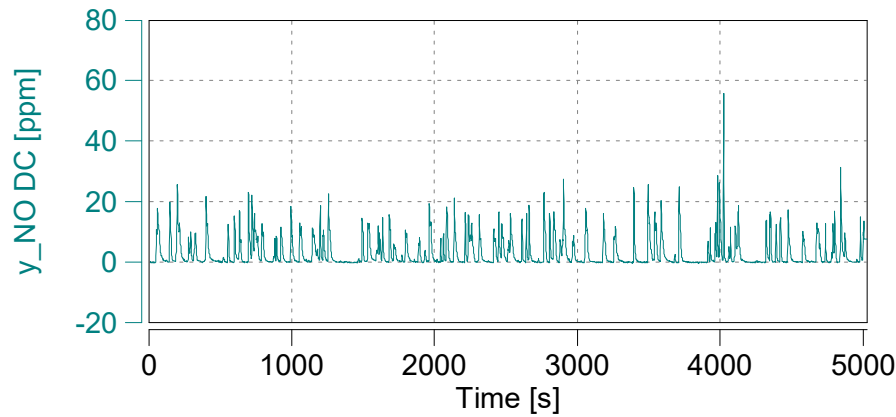
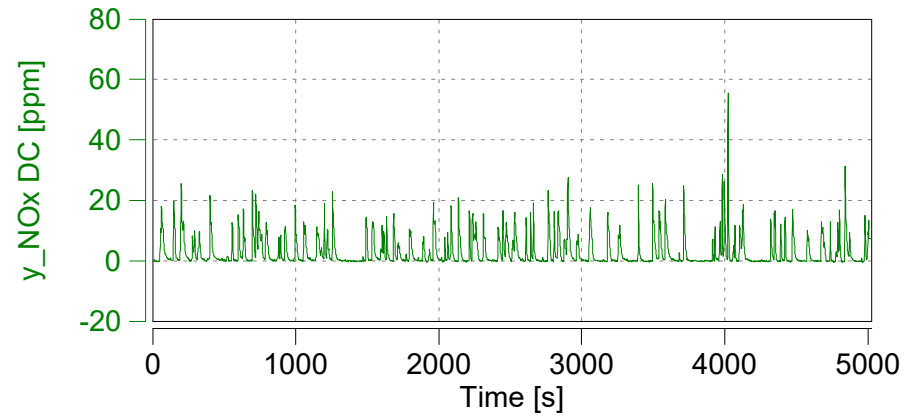
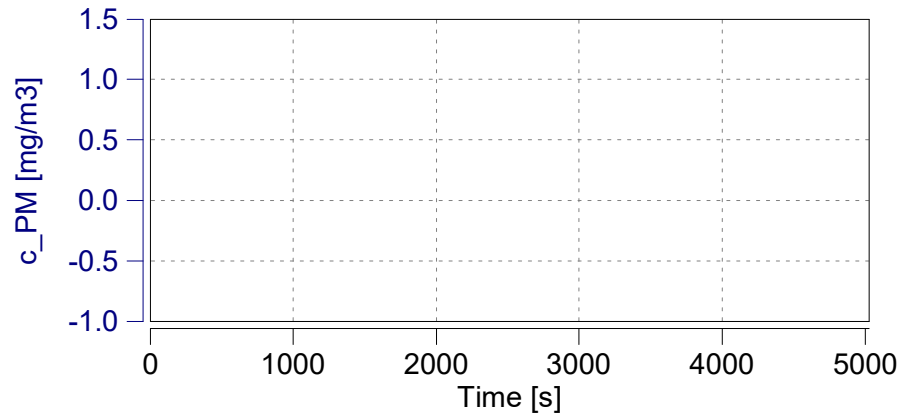
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0

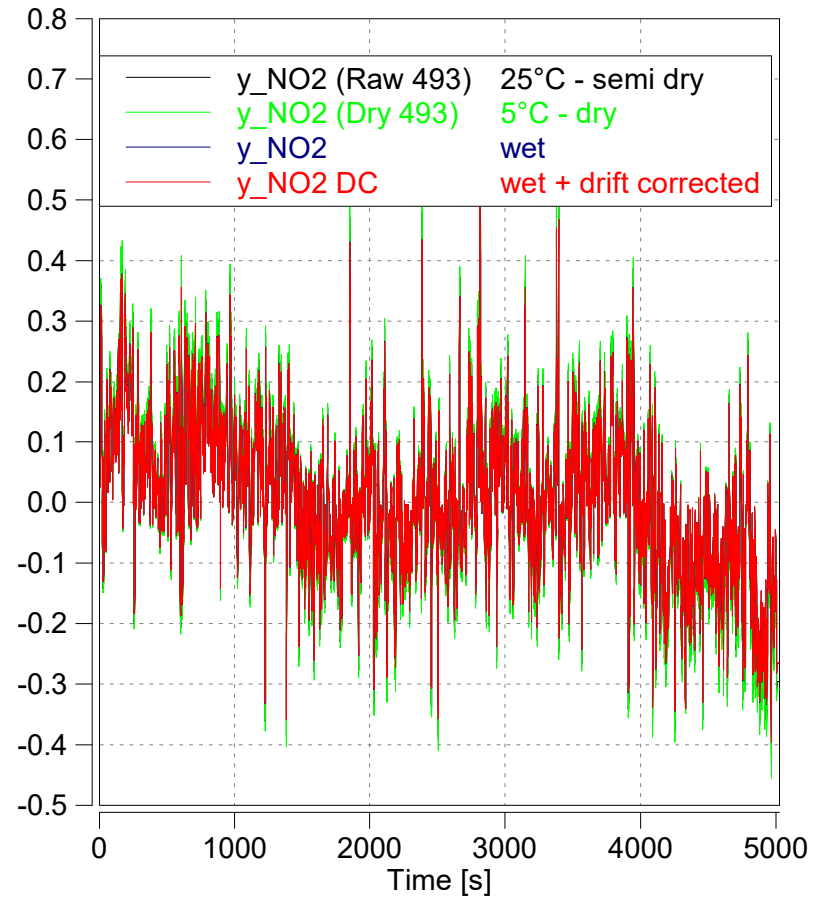
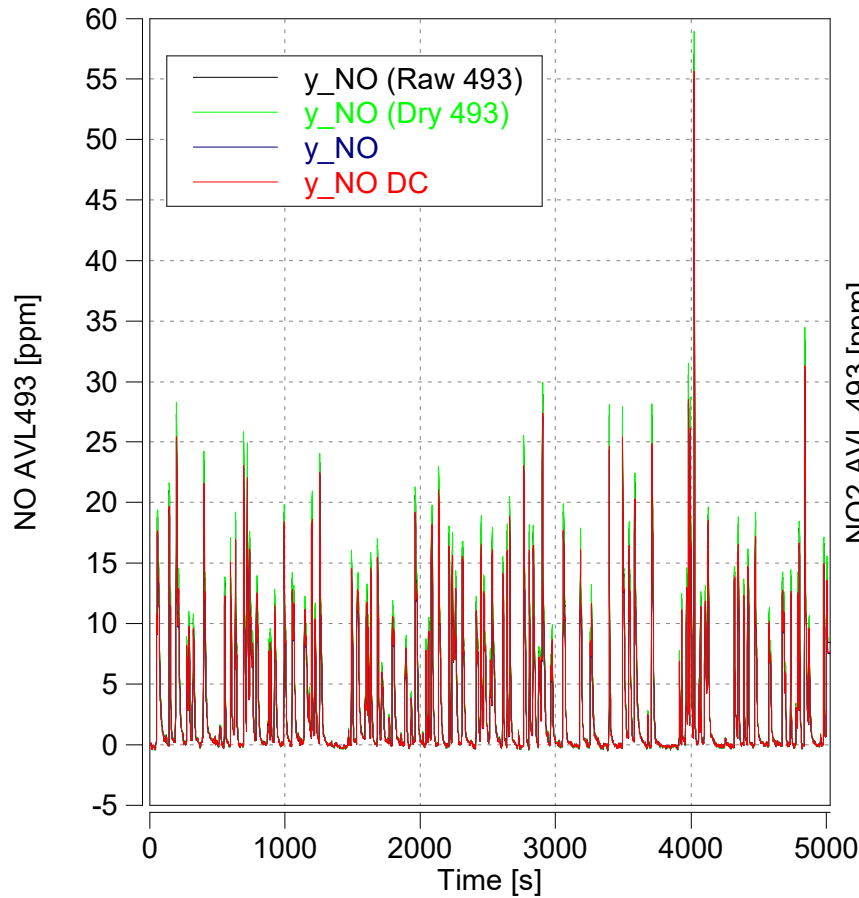


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

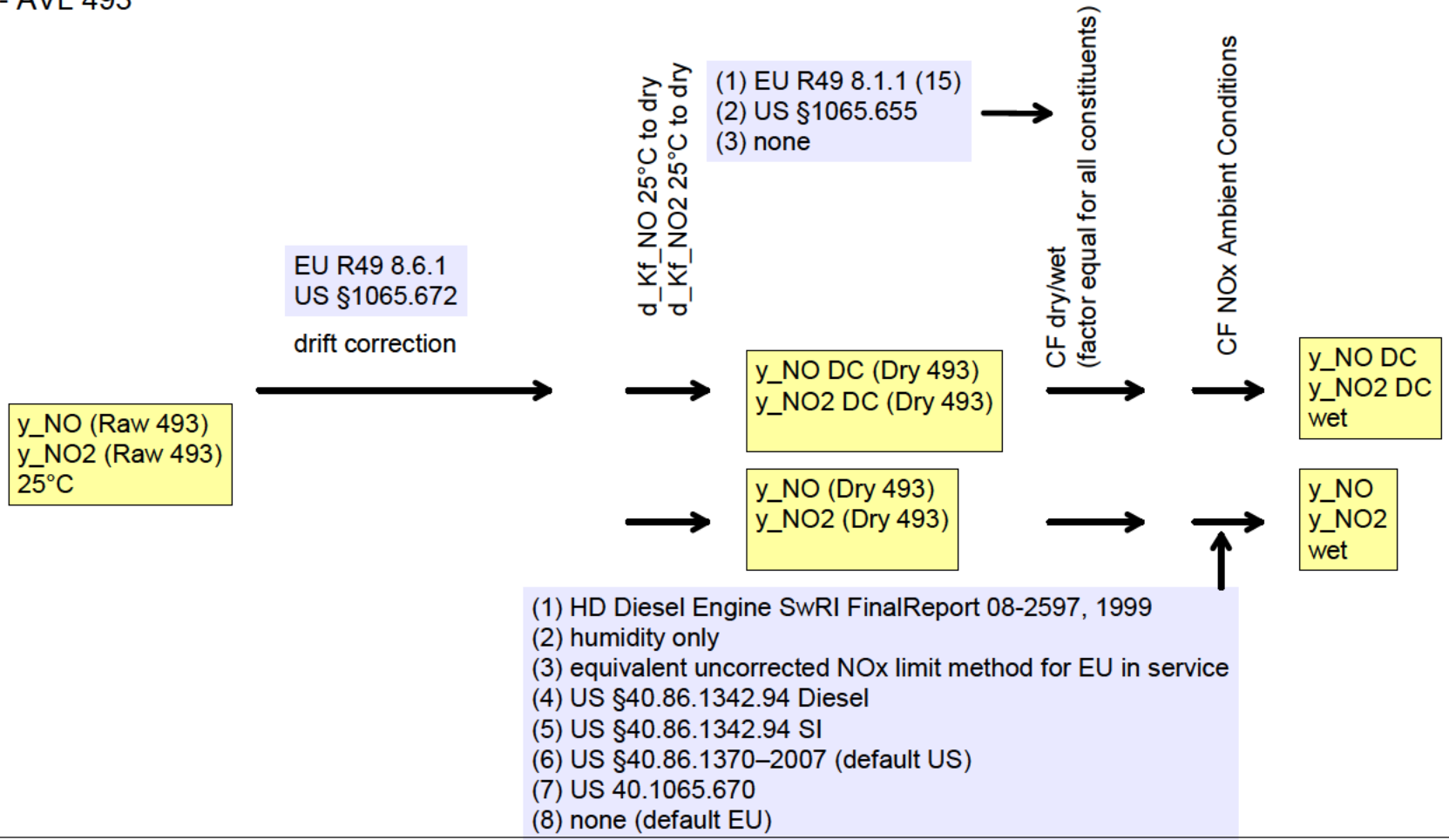
Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

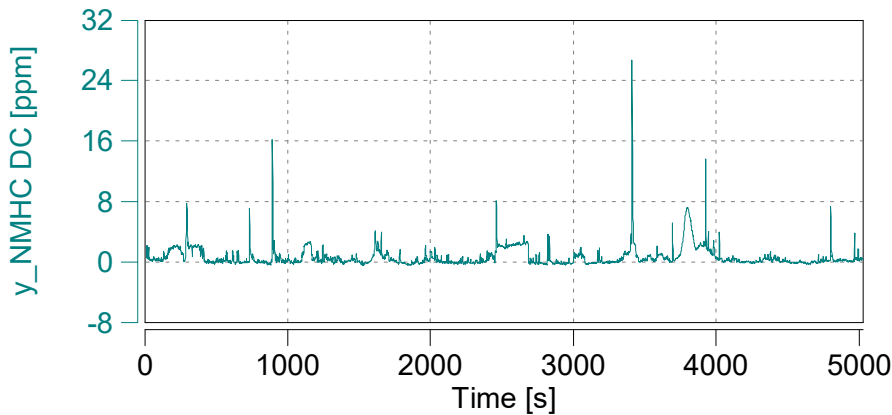
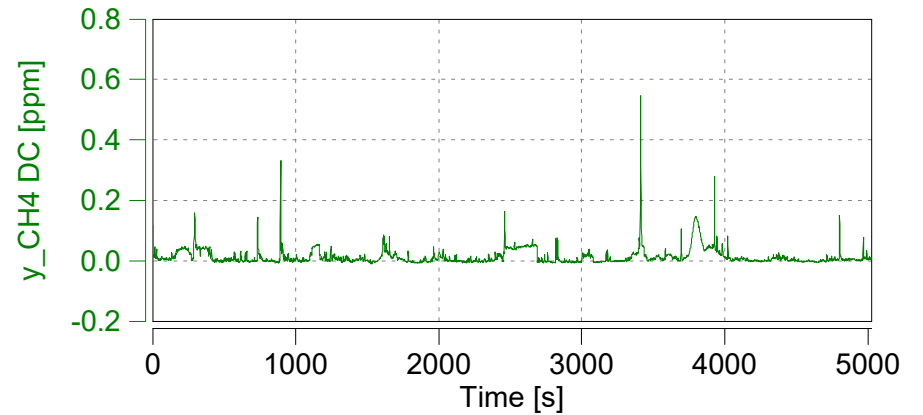
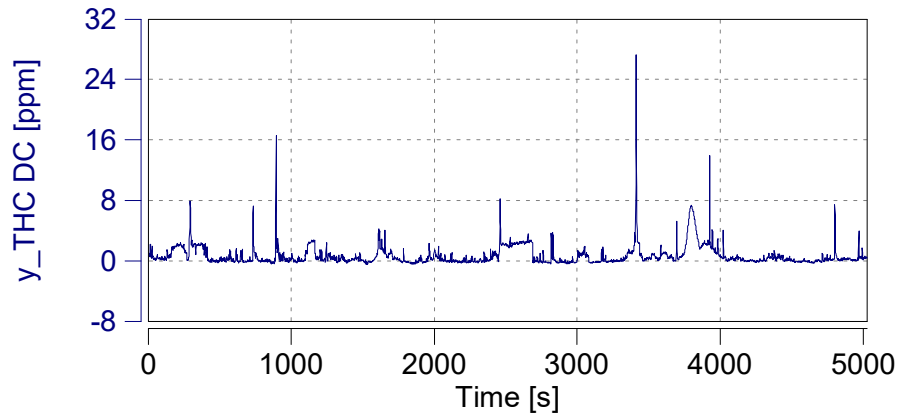
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

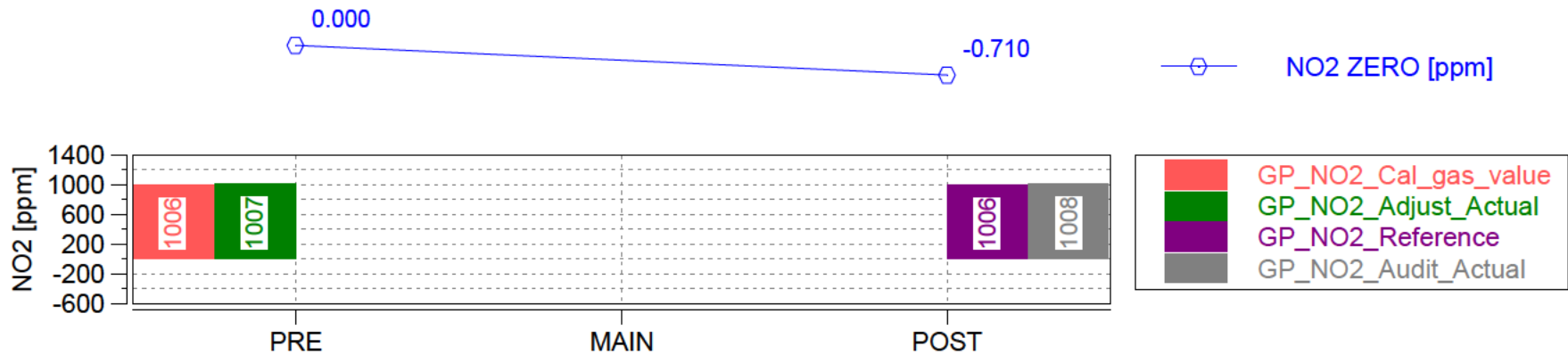
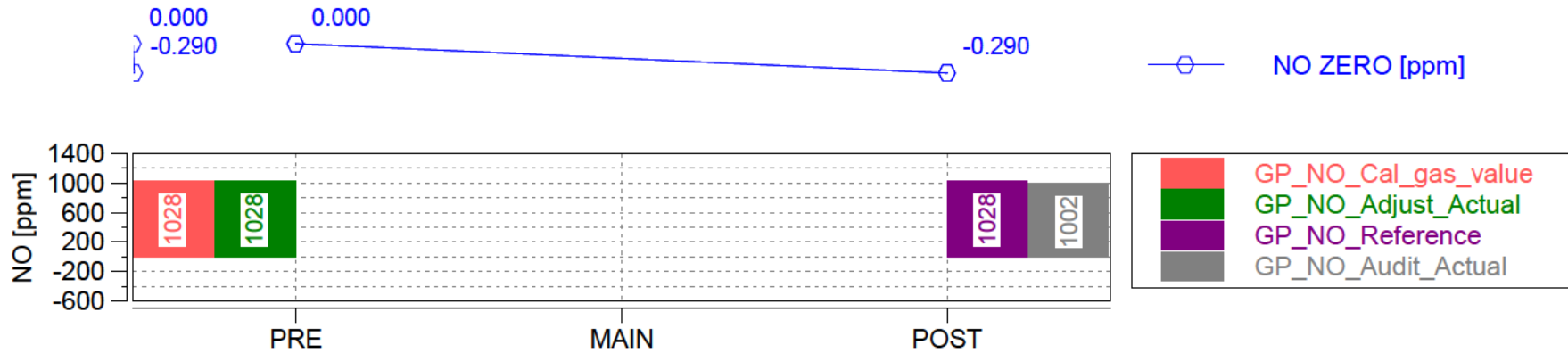
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

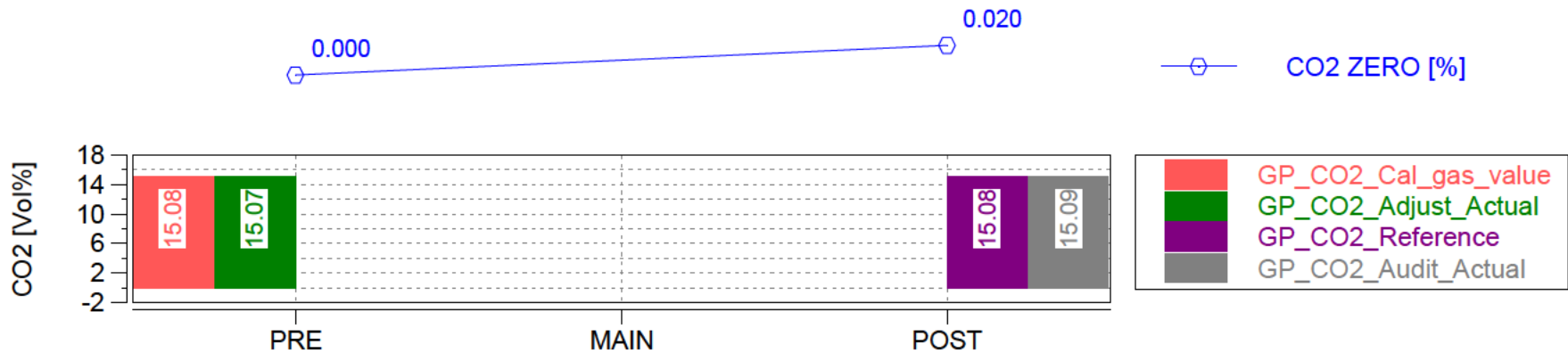
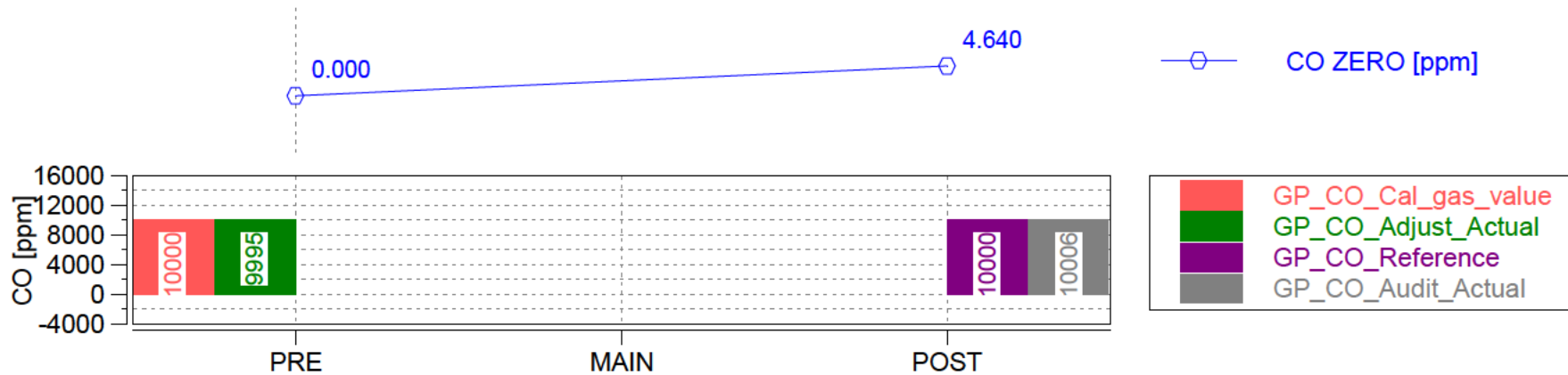
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

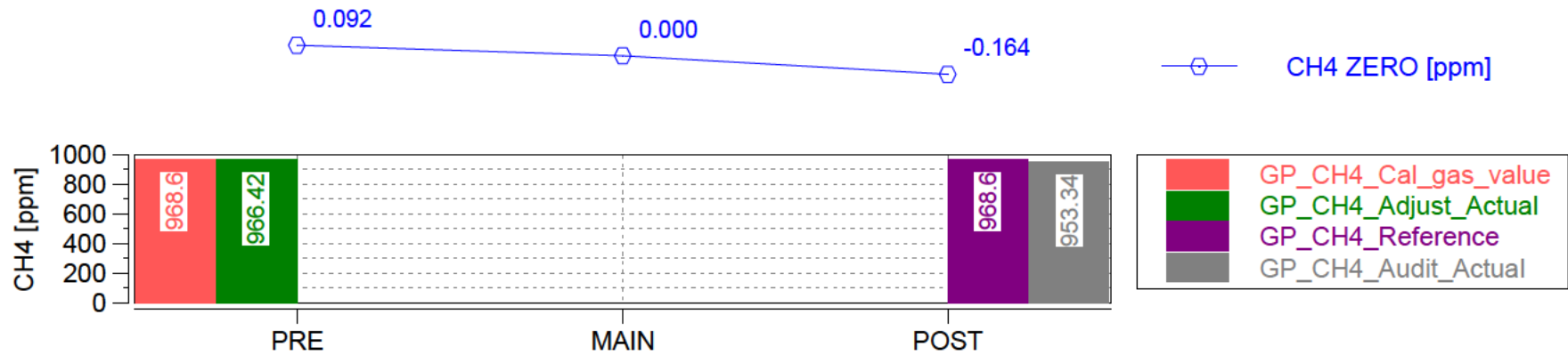
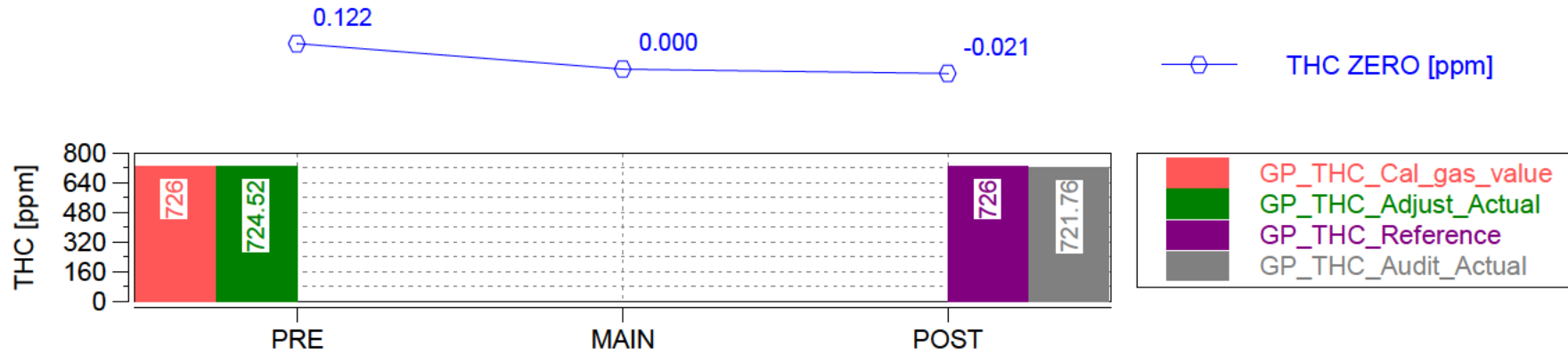
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 08/08/2019
Start Time: 13:00:13.0



Trip Duration	2805.00	s	ave THC	1.12680	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2805.00	s	ave NMHC	1.10427	ppm	BS CO	n/a	g/hphr
Trip Distance	37.98	mi	ave CH4	0.02254	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	37.98	mi	ave CO	47.63298	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	11.95714	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	2.83858	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.47	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.44	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.23	gall	tot THC	0.04070	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.22	gall	tot NMHC	0.03765	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00090	g	DS CO2	275.72325	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	3.01516	g	DS CO	0.07939	g/mi
Trip Fuel Economy EU (ac)	30.96	mpg_US	tot CO2	10472.30424	g	DS THC	0.00107	g/mi
Trip Fuel Economy US (ac)	31.22	mpg_US	tot NO (d)	0.11201	g	DS NMHC	0.00099	g/mi
Trip Av. Eng. Speed	1287.26	rpm	tot NO2	0.03448	g	DS CH4	0.00002	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.14648	g	DS NO (d)	0.00295	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00091	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00386	g/mi
Trip Exhaust Mass	56.34	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	74.77	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	53.93	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	48.74606	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	2.92335	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018

Trip Duration	2805.00	s	ave THC DC	1.07002	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2805.00	s	ave NMHC DC	1.04862	ppm	BS CO DC	n/a	g/hphr
Trip Distance	37.98	mi	ave CH4 DC	0.02140	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	37.98	mi	ave CO DC	47.62907	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	11.95714	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	2.86739	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.47	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.44	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall				BS PM	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	tot THC DC	0.03914	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.23	gall	tot NMHC DC	0.03621	g			
Trip Fuel Cons. Volume US (ac)	1.22	gall	tot CH4 DC	0.00087	g	DS CO2 DC	275.72325	g/mi
			tot CO DC	3.01491	g	DS CO DC	0.07938	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	10472.30424	g	DS THC DC	0.00103	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.11335	g	DS NMHC DC	0.00095	g/mi
Trip Fuel Economy EU (ac)	30.96	mpg_US	tot NO2 DC	0.03441	g	DS CH4 DC	0.00002	g/mi
Trip Fuel Economy US (ac)	31.22	mpg_US	tot NOx DC	0.14776	g	DS NO DC (d)	0.00298	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00091	g/mi
Trip Av. Eng. Speed	1287.26	rpm	tot Soot meas	n/a	g	DS NOx DC	0.00389	g/mi
Trip Av. Torque	n/a	lbft	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Av. Power	n/a	hp	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	56.34	kg	PM correction type	1.00000	alpha(HC)			
Trip Exhaust Mass EU (ac)	n/a	kg	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	74.77	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	53.93	%	Trip Av. Veh. Speed	48.74606	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	2.92335	%	FS NO DC (d)	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NOx DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

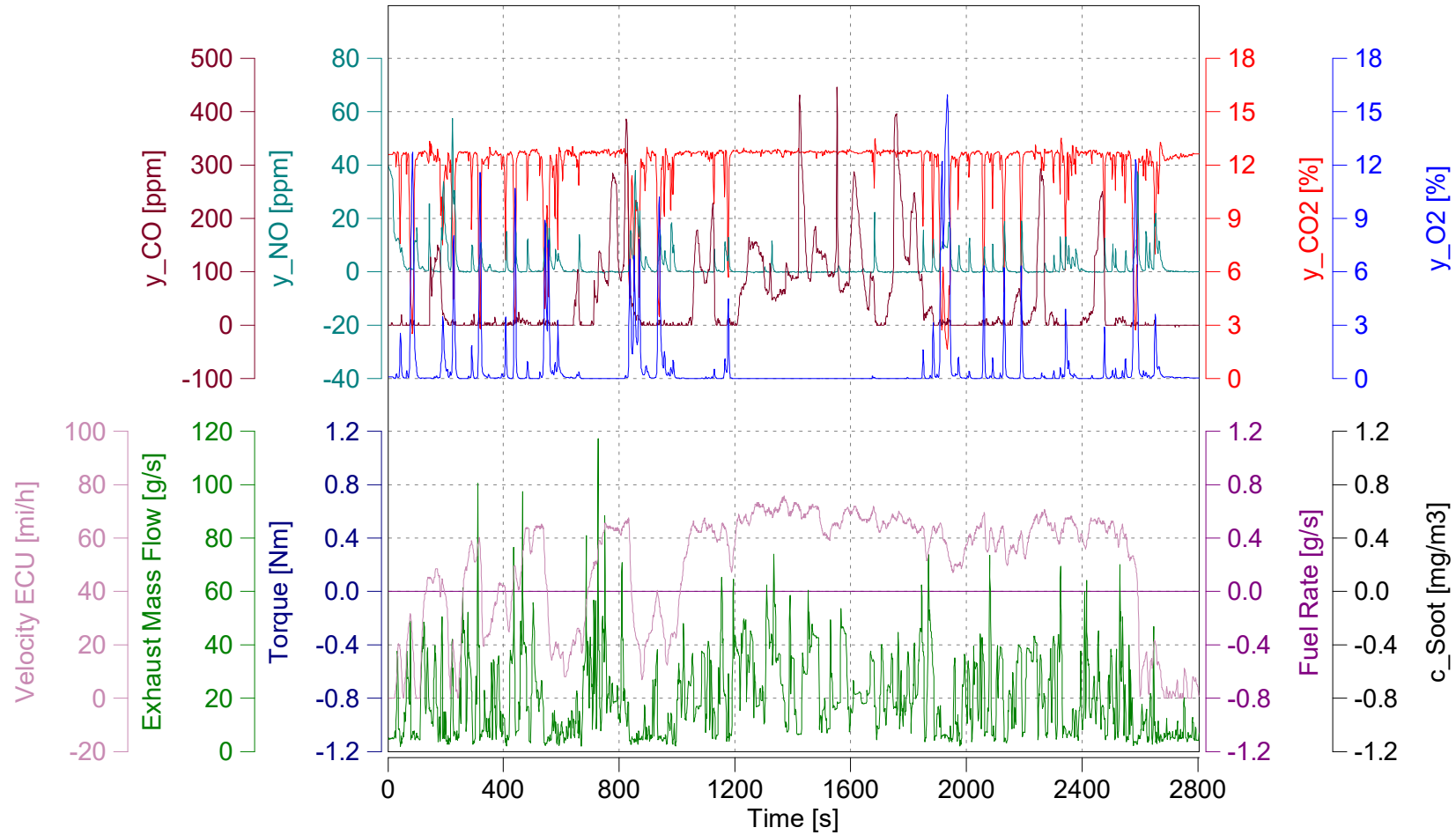
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Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

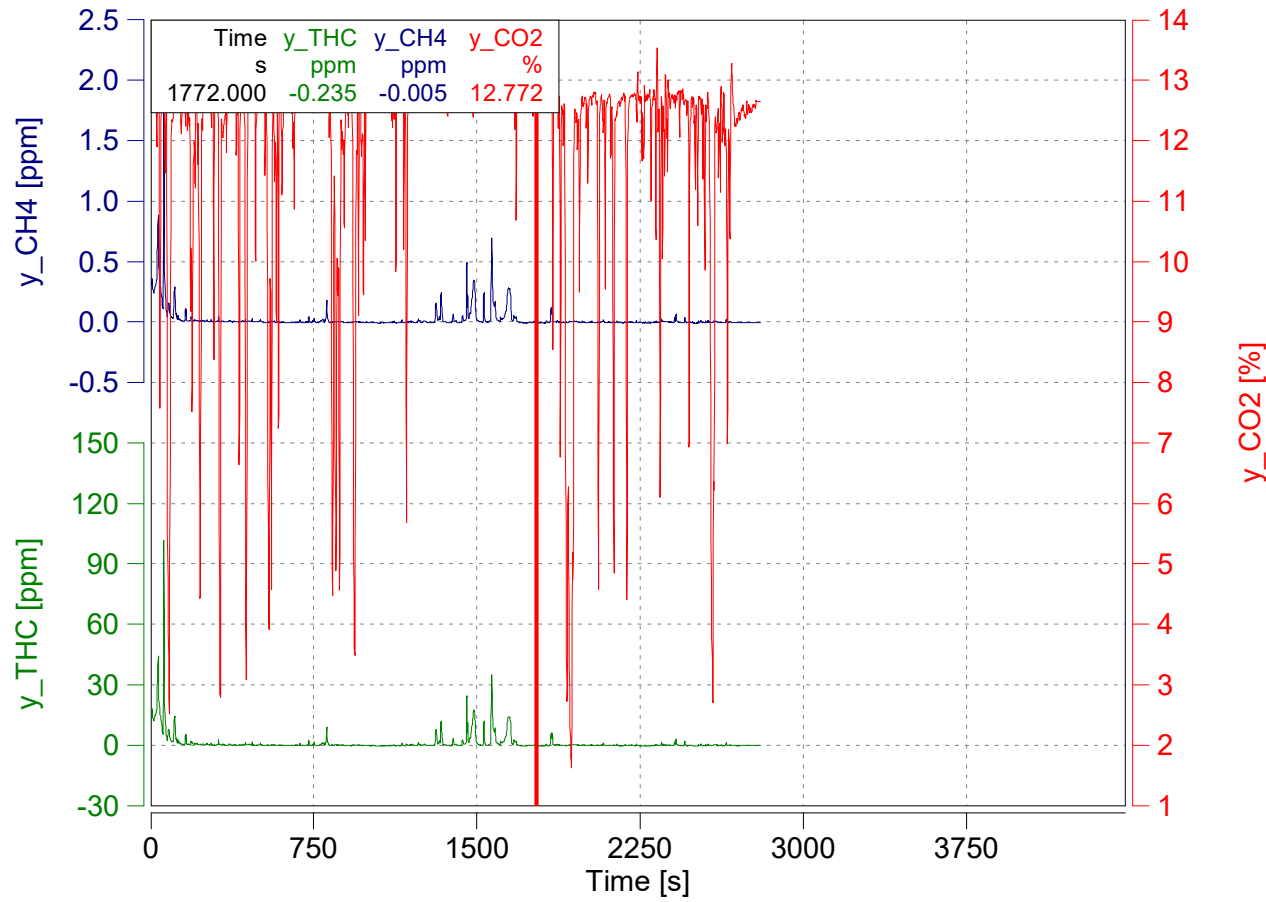
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Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

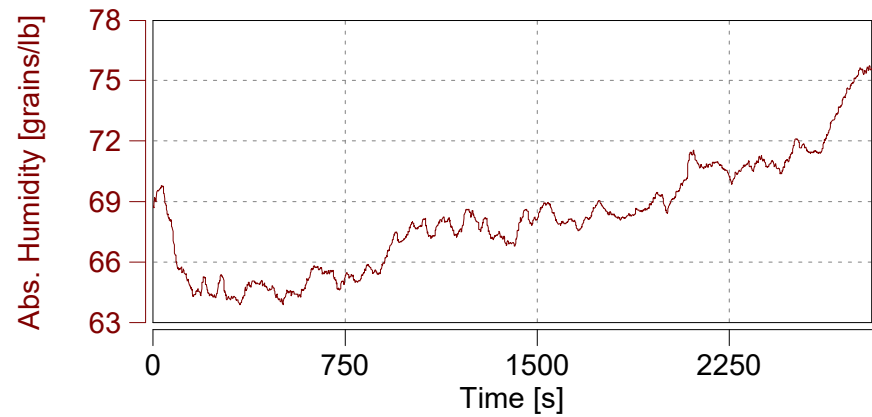
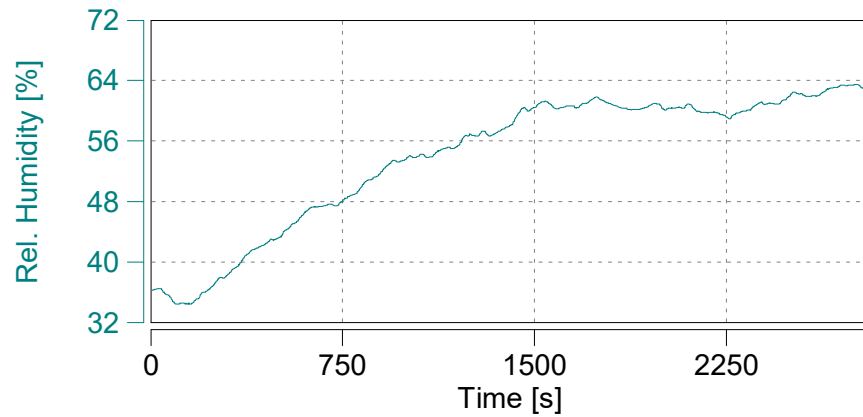
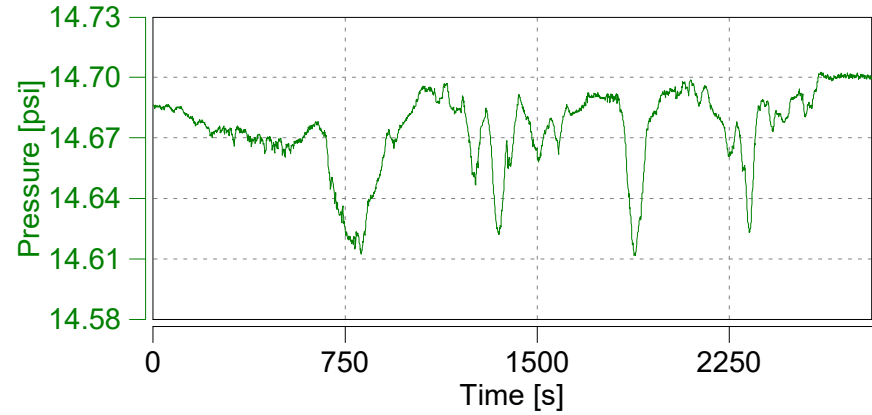
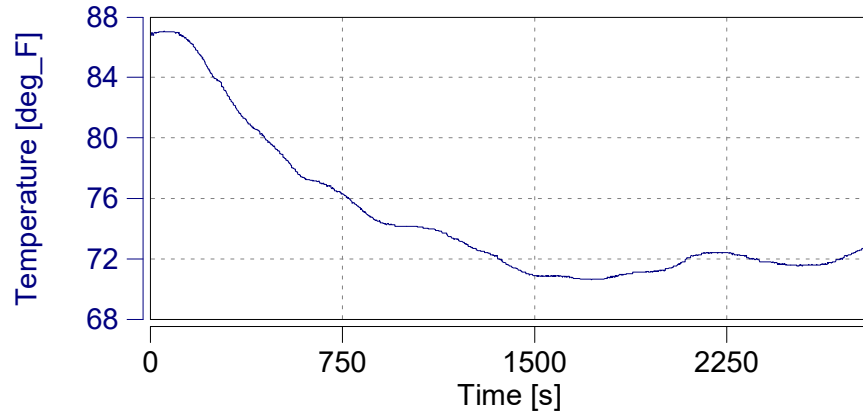


Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

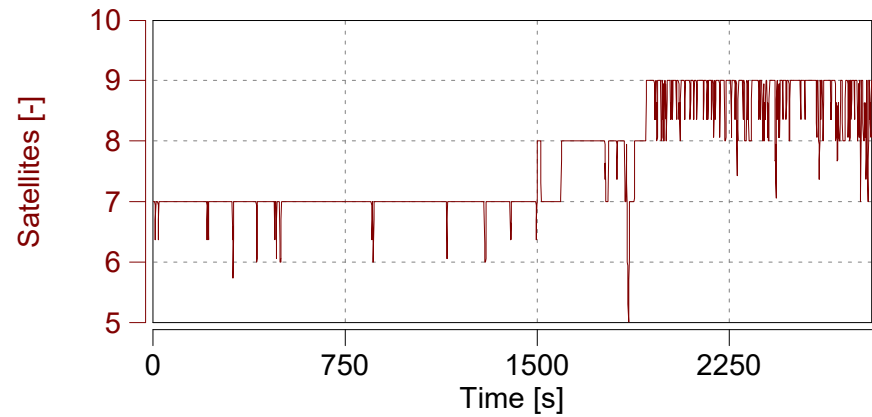
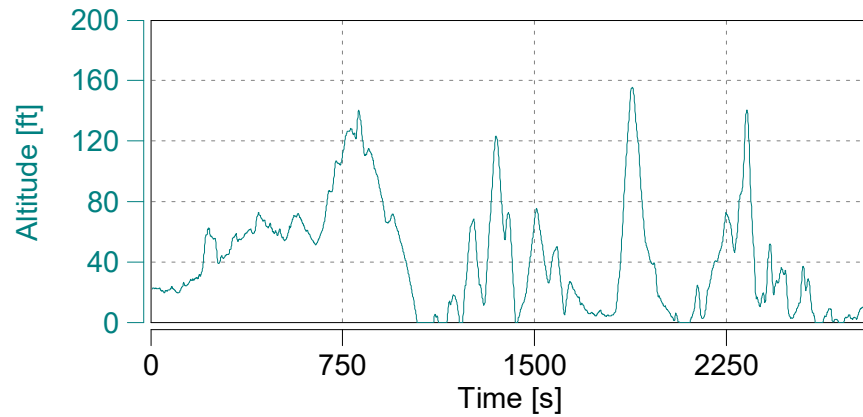
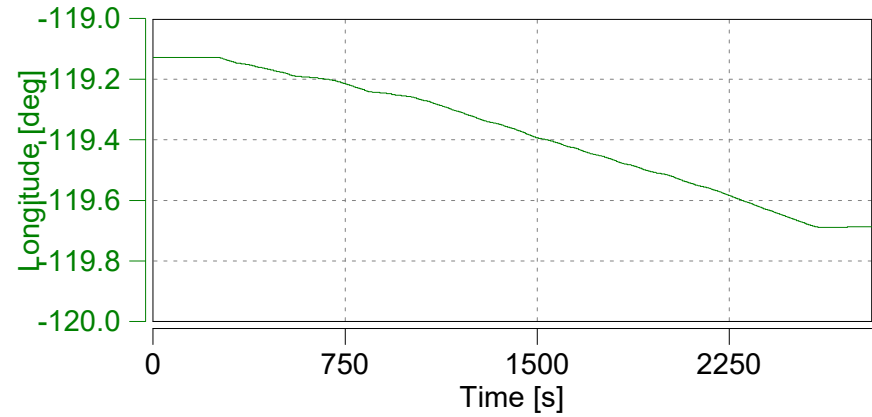
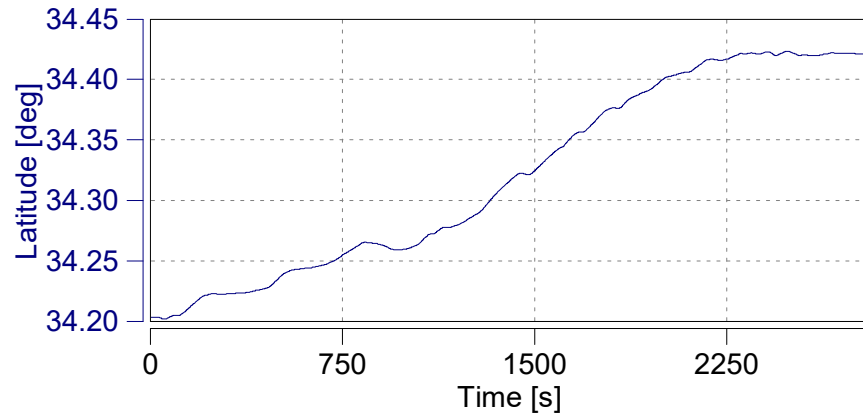
'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0

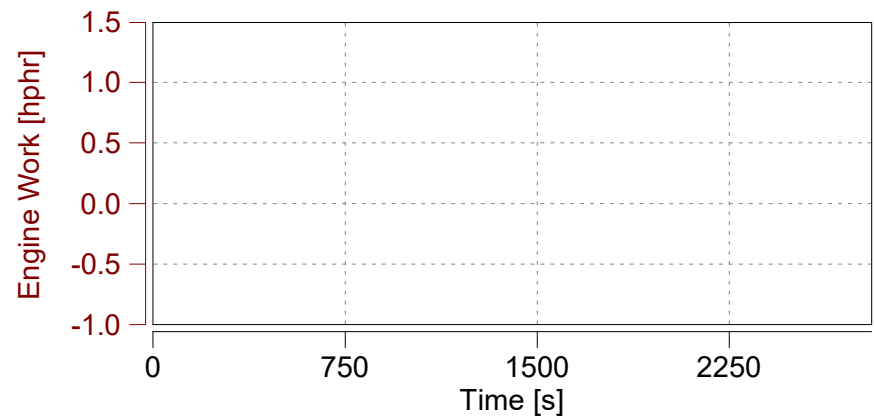
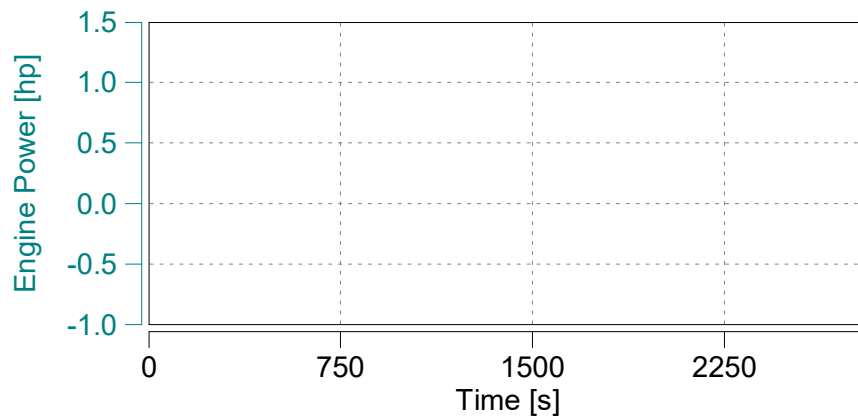
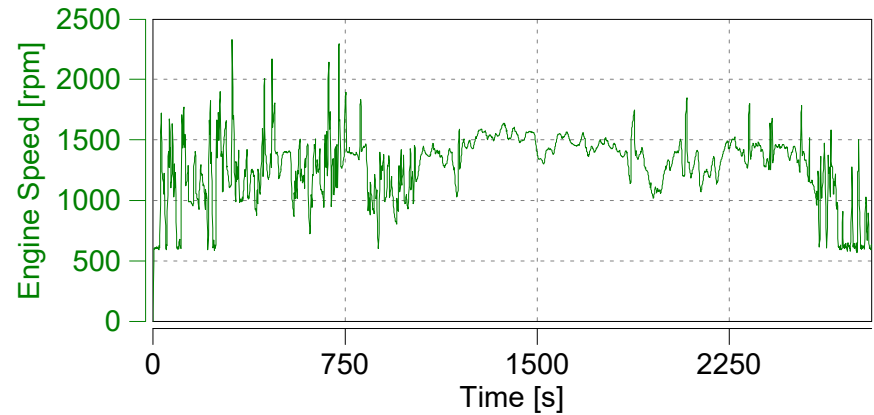
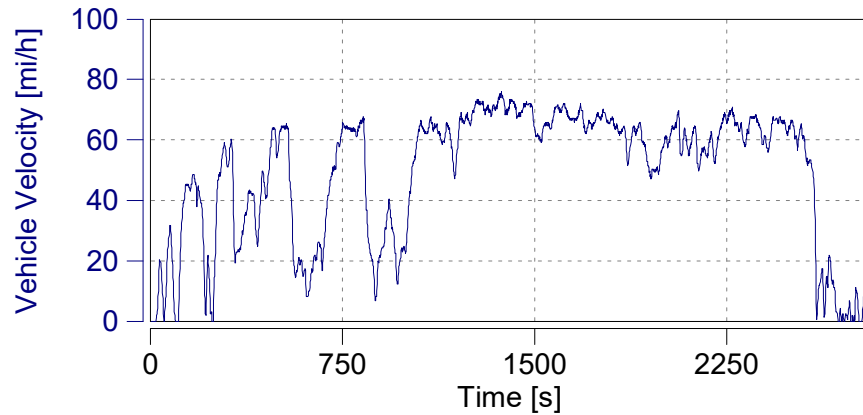


Concerto M.O.V.E., 2018



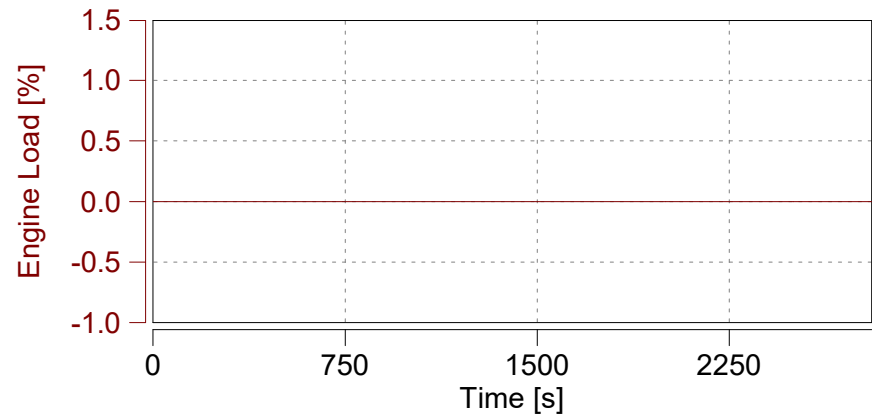
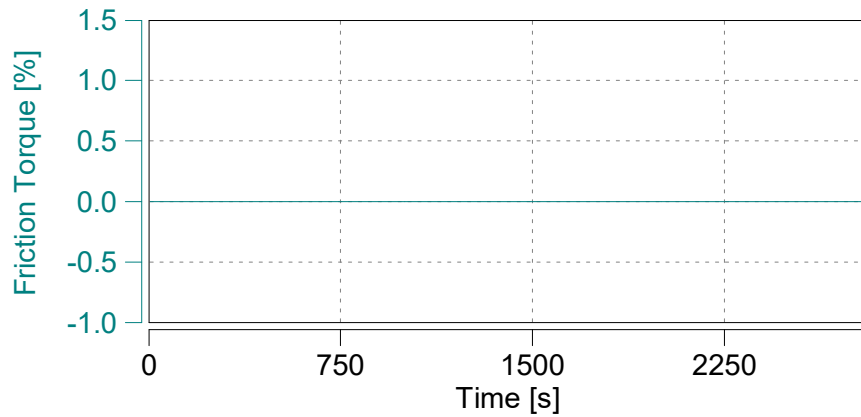
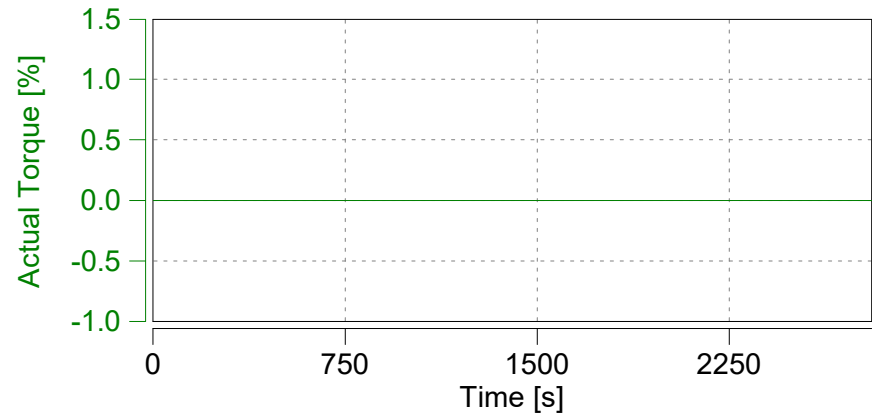
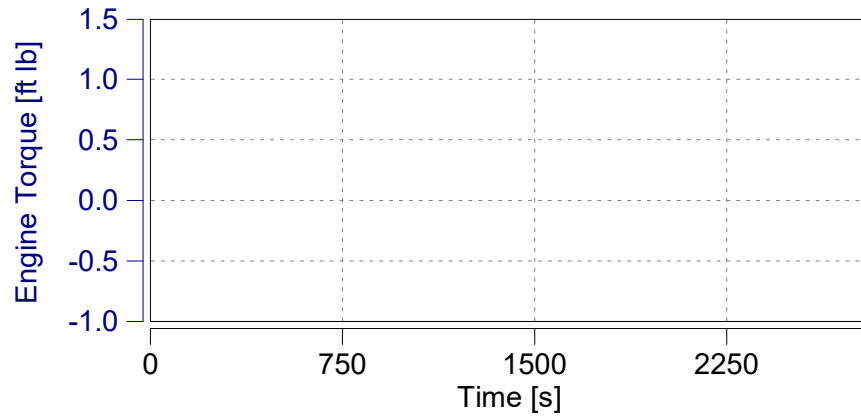
Concerto Version: 480 Build 316, Serial Number: 1120
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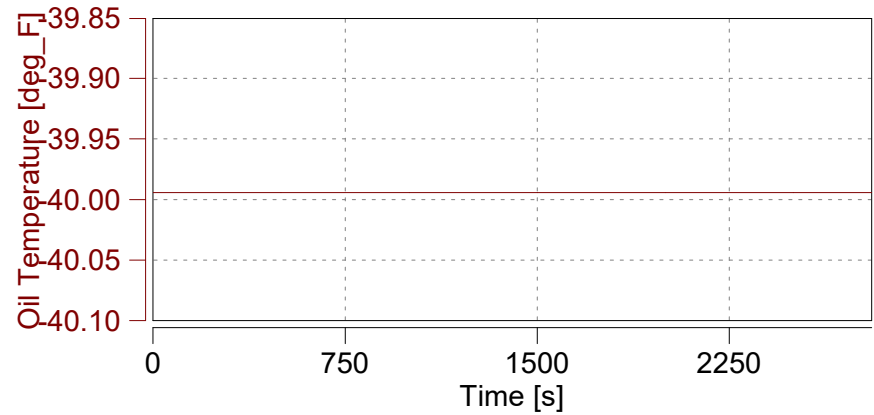
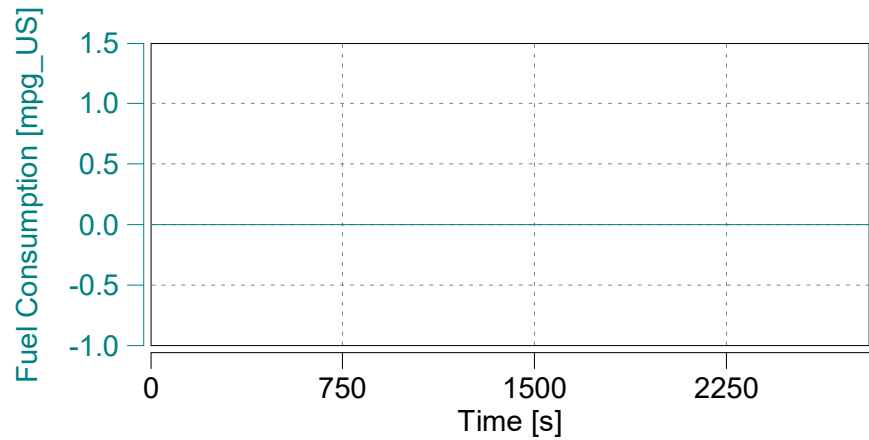
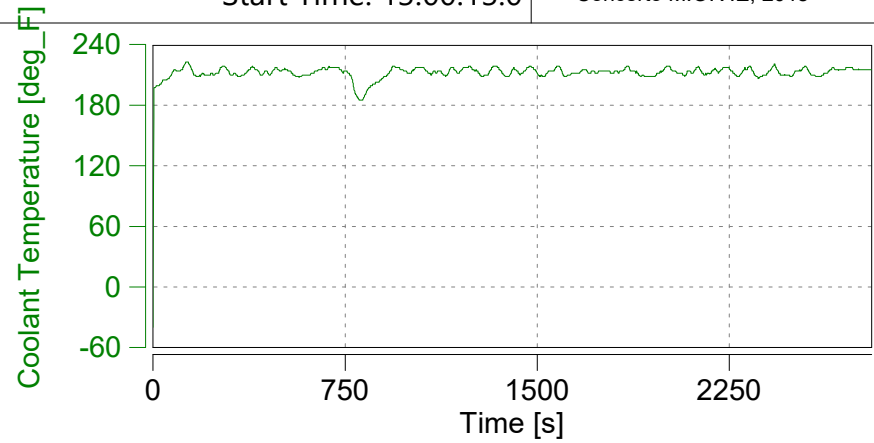
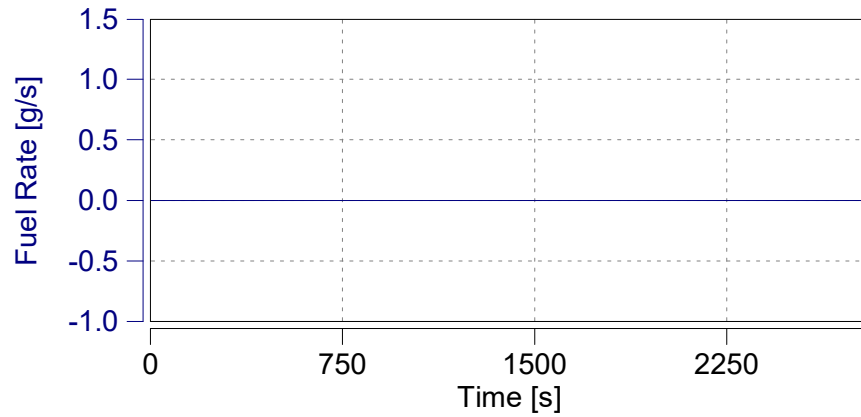
Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

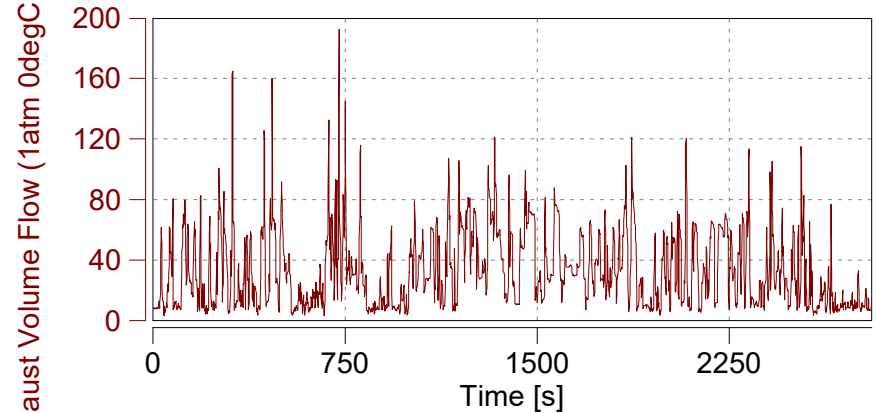
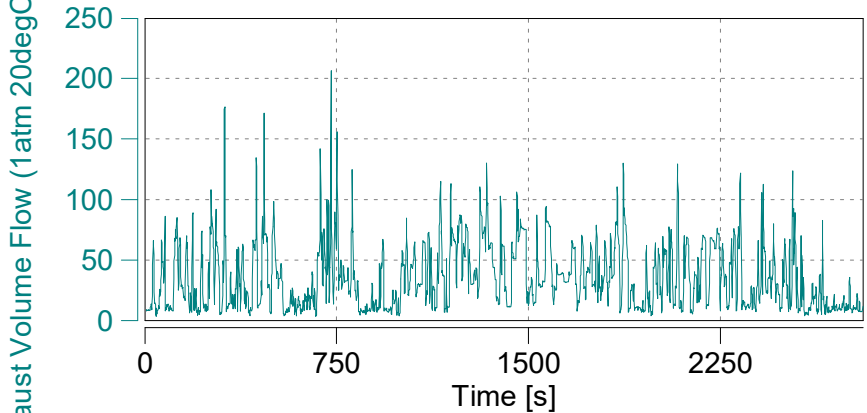
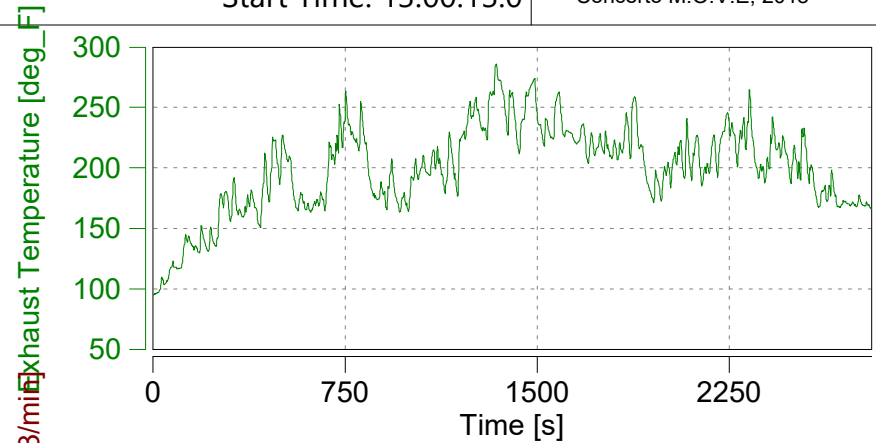
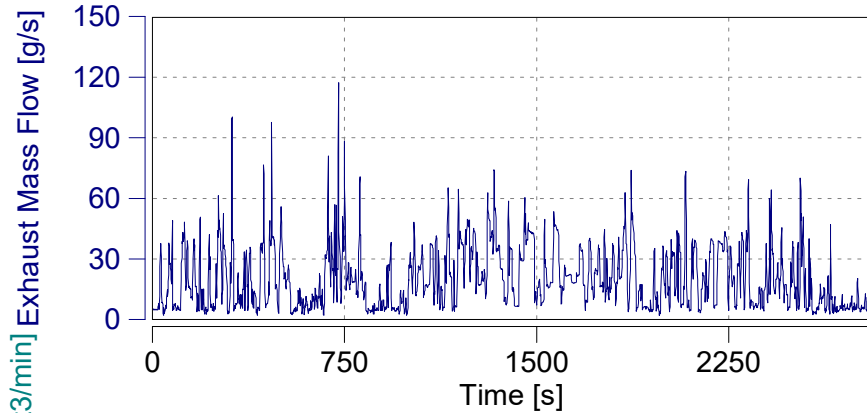
'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0

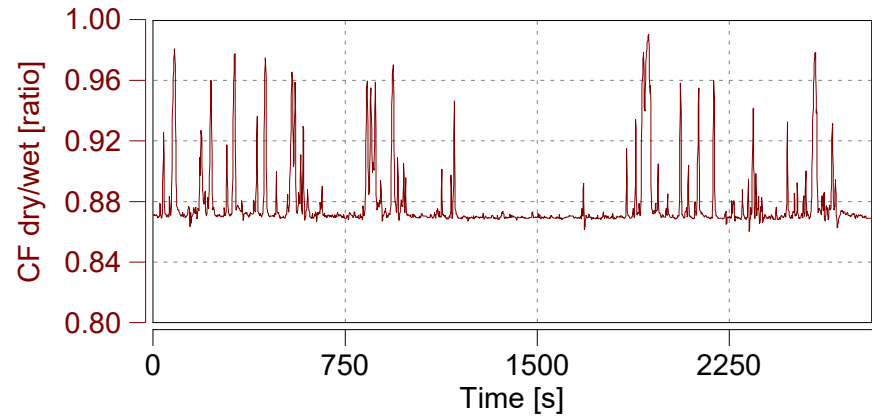
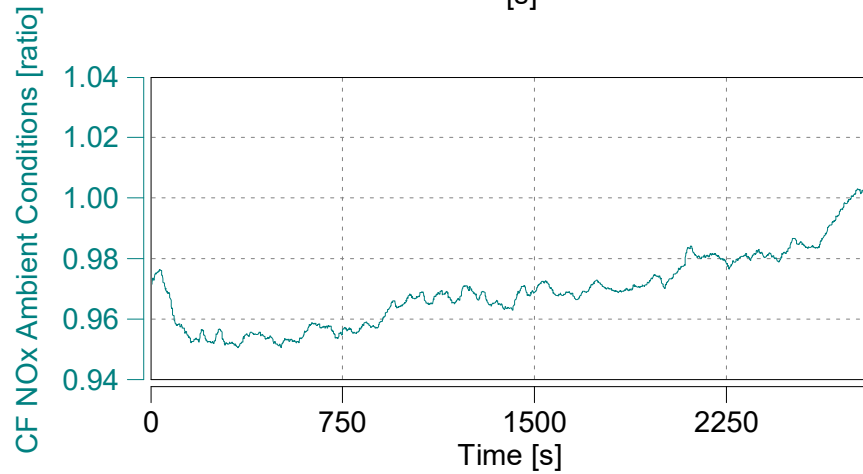
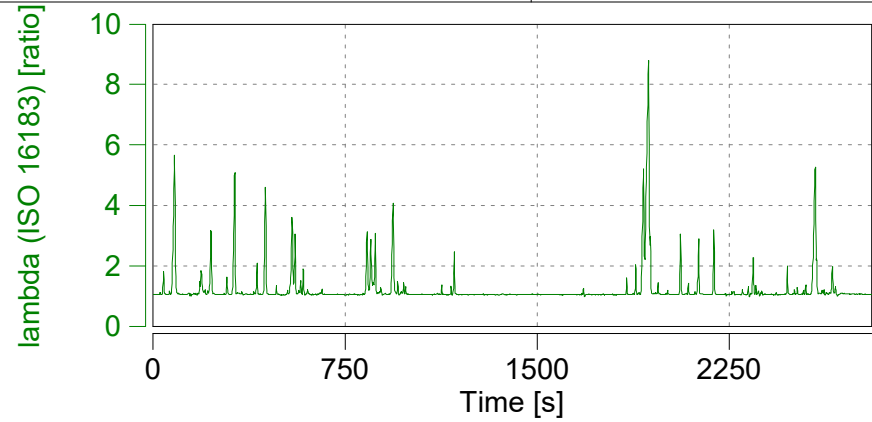
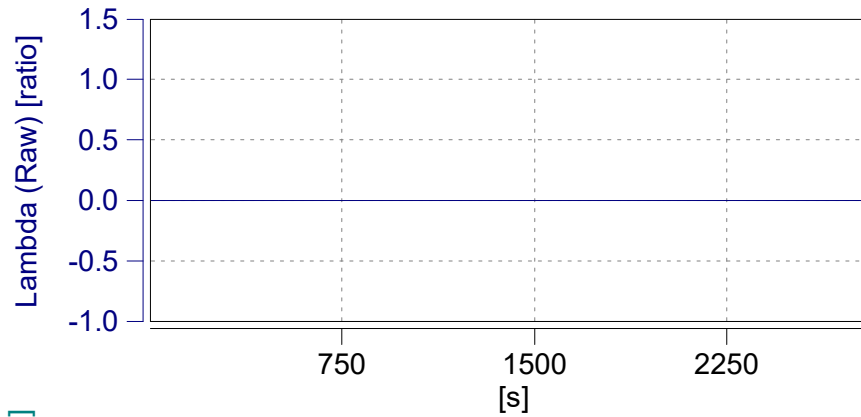


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

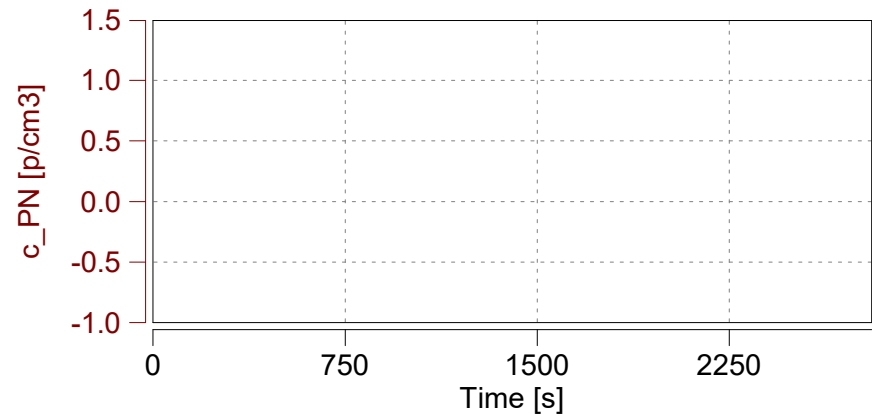
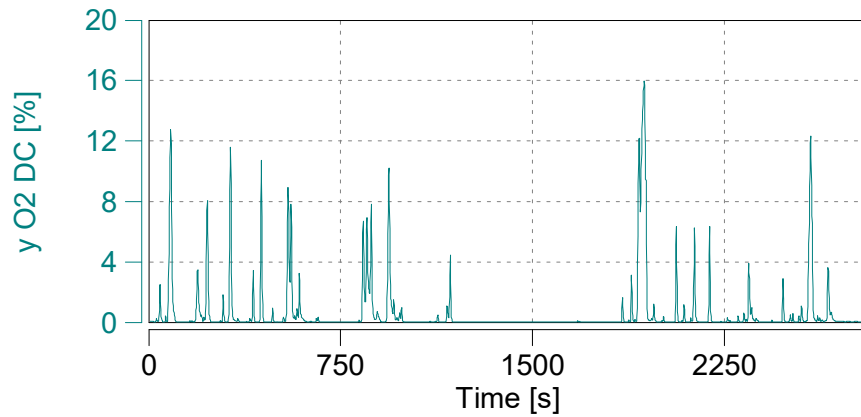
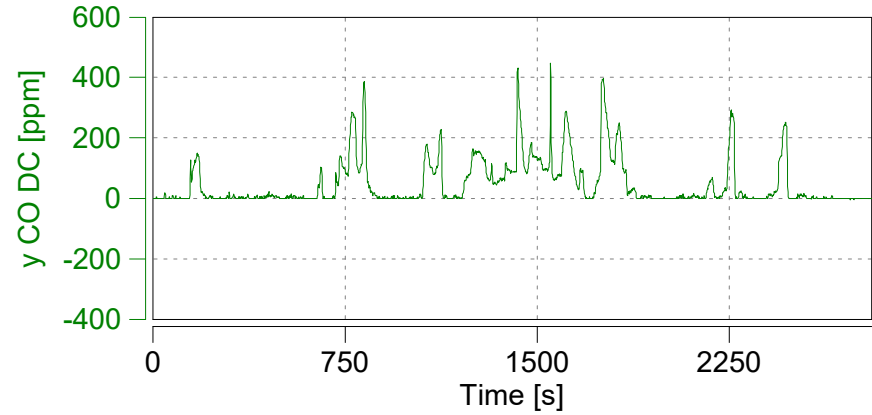
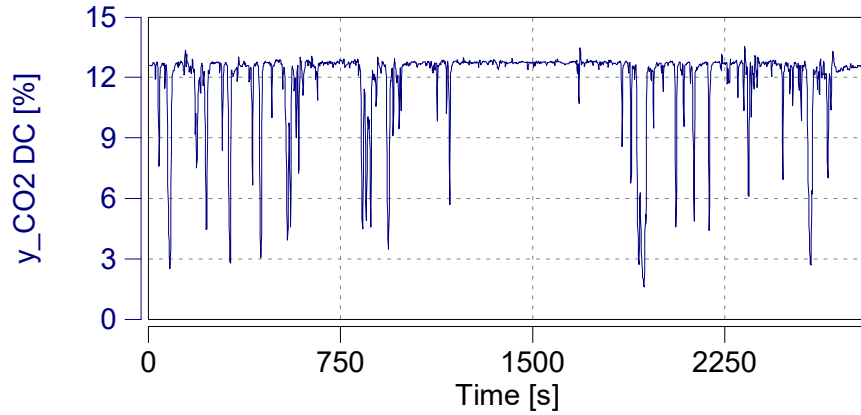
'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (2)

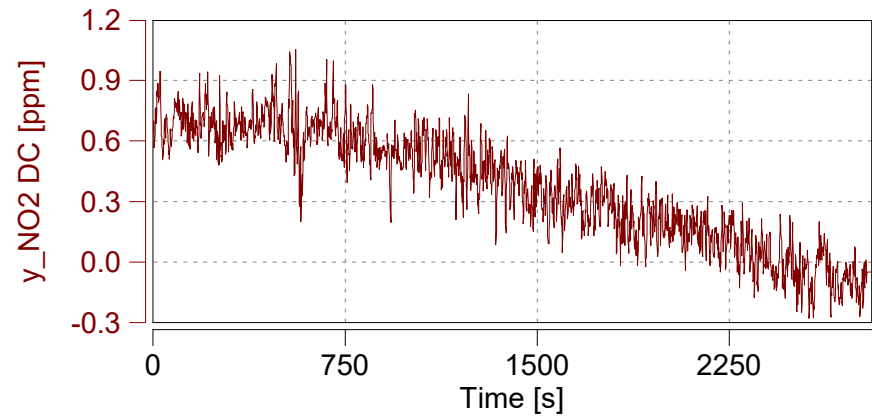
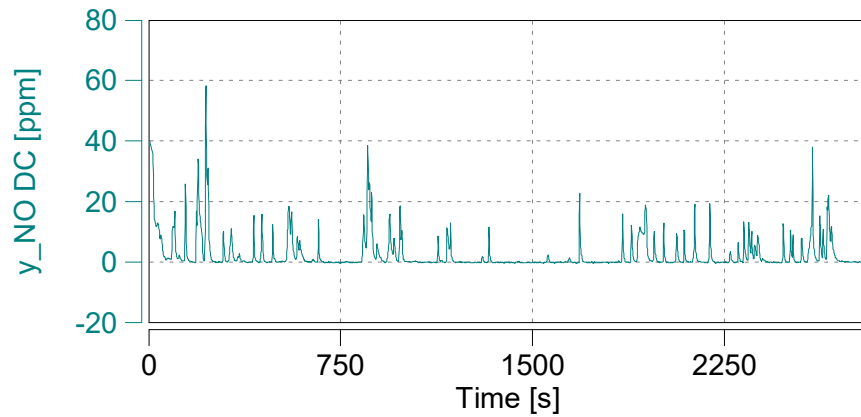
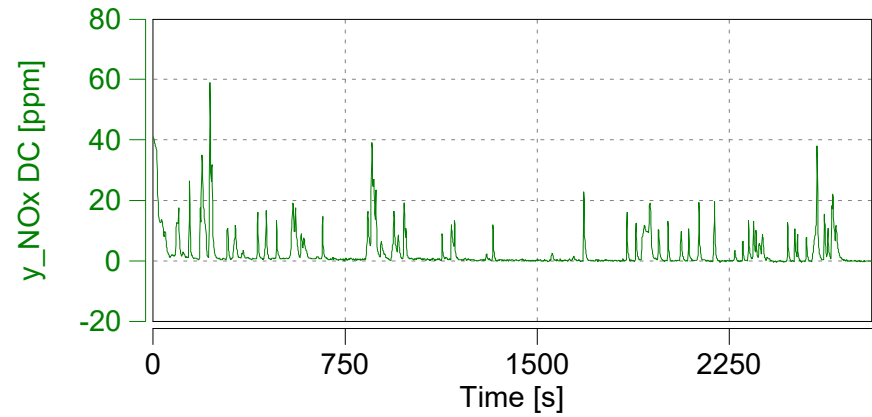
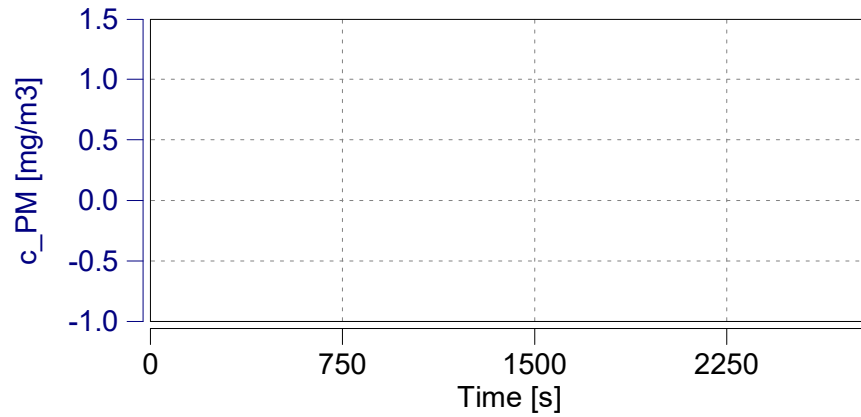
'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0

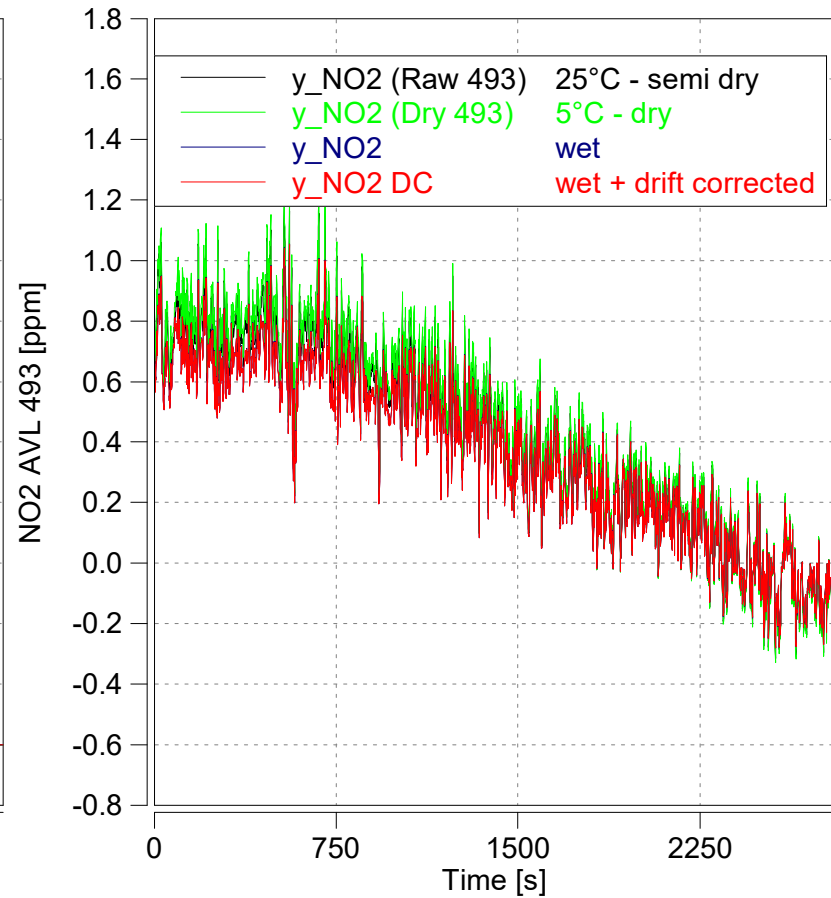
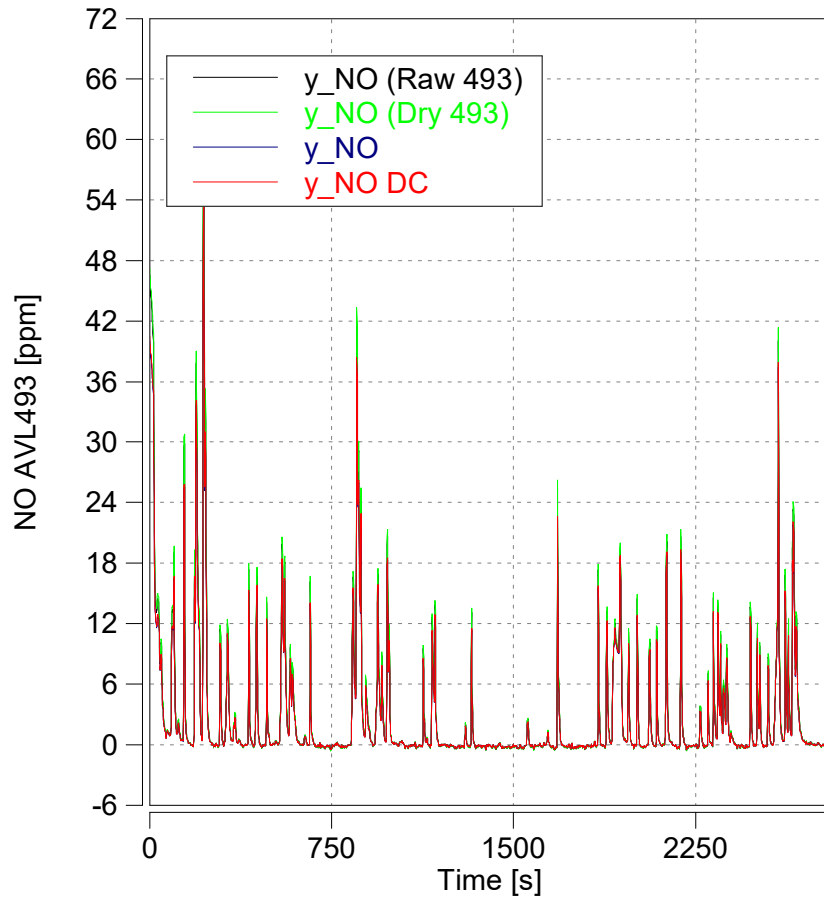


Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

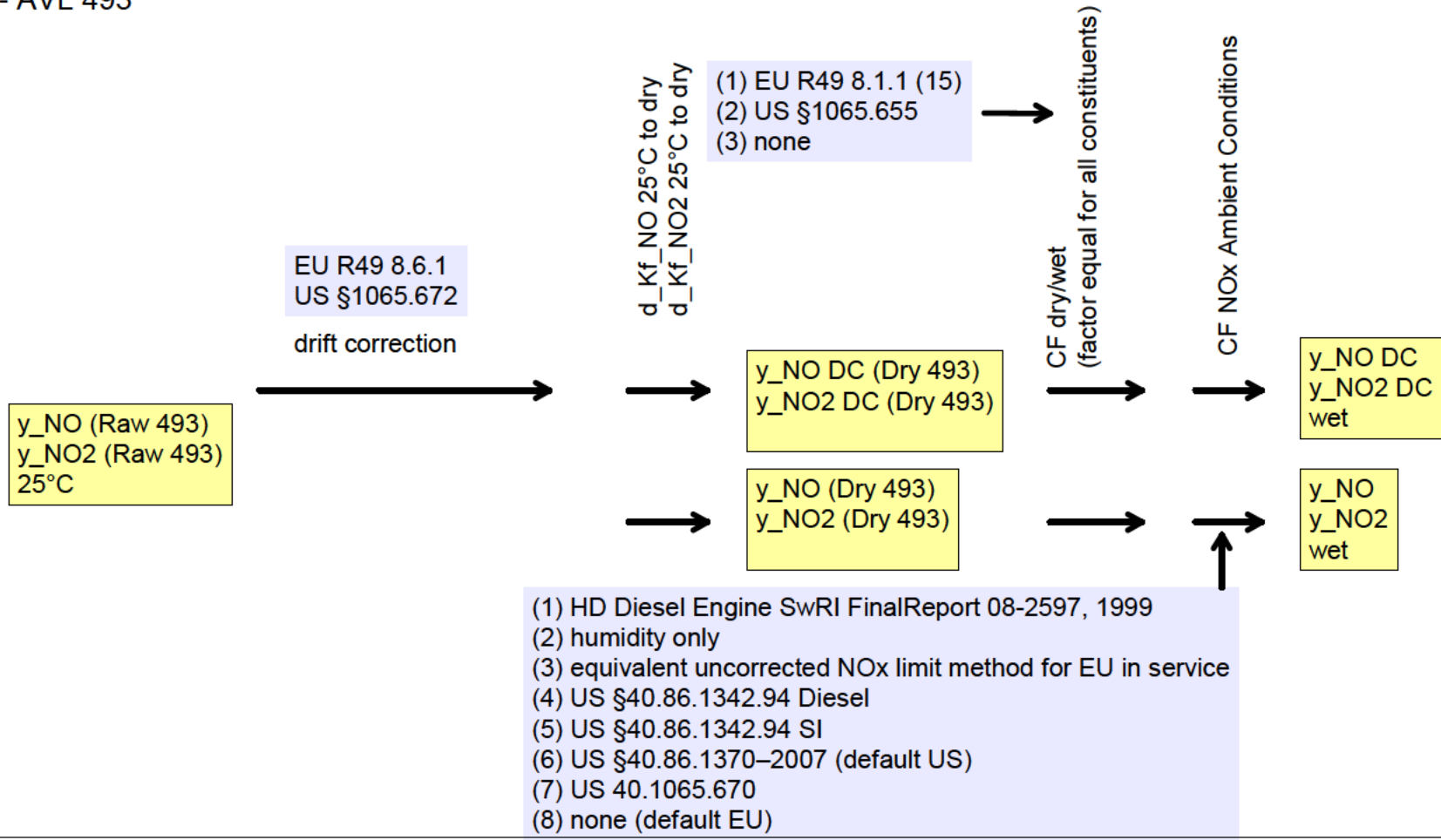


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

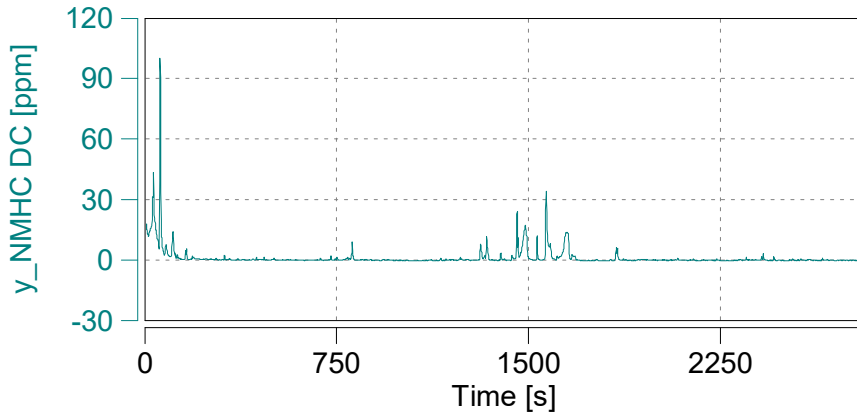
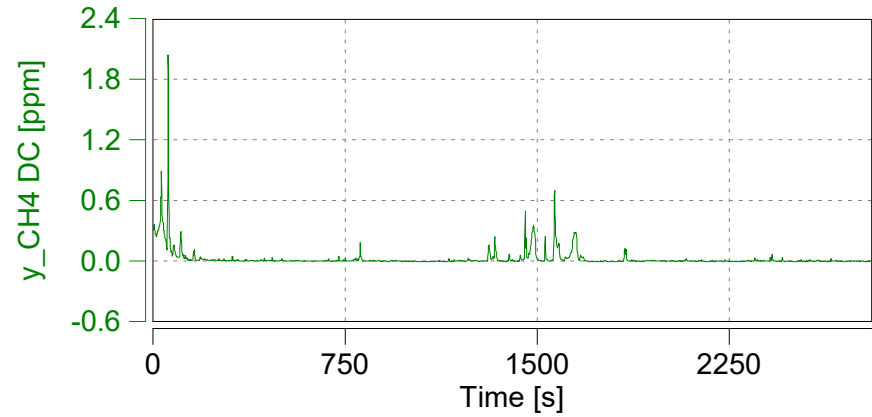
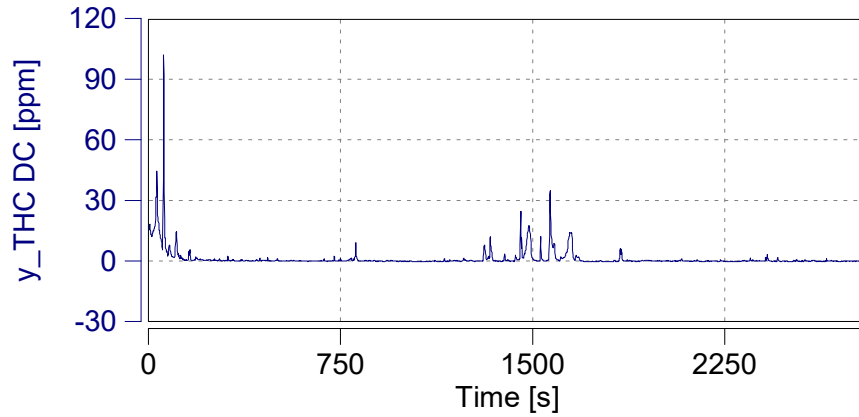
'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

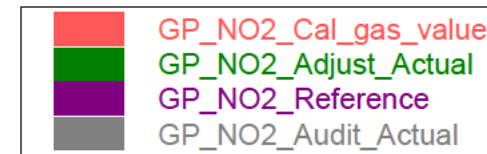
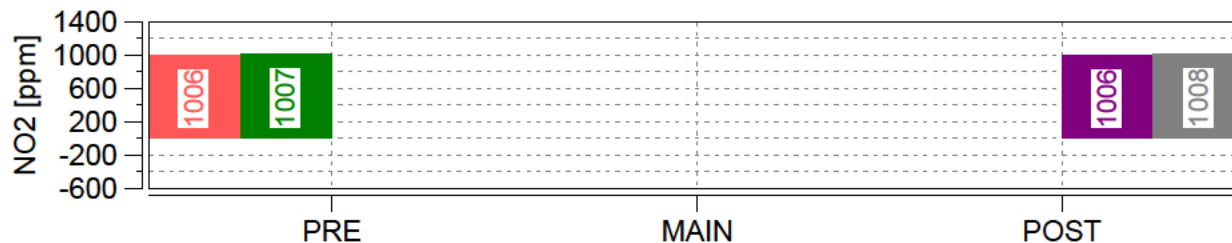
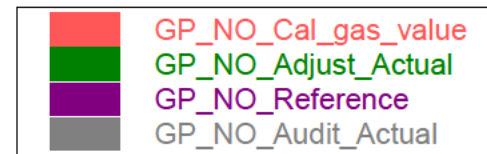
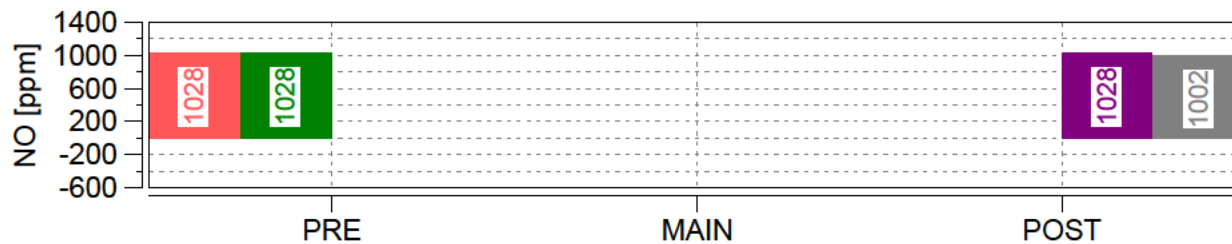
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Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

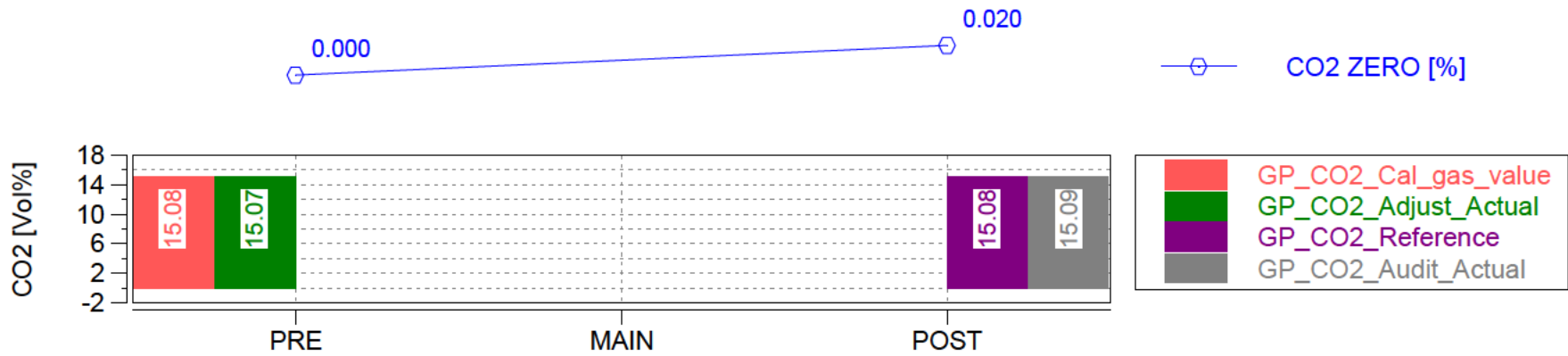
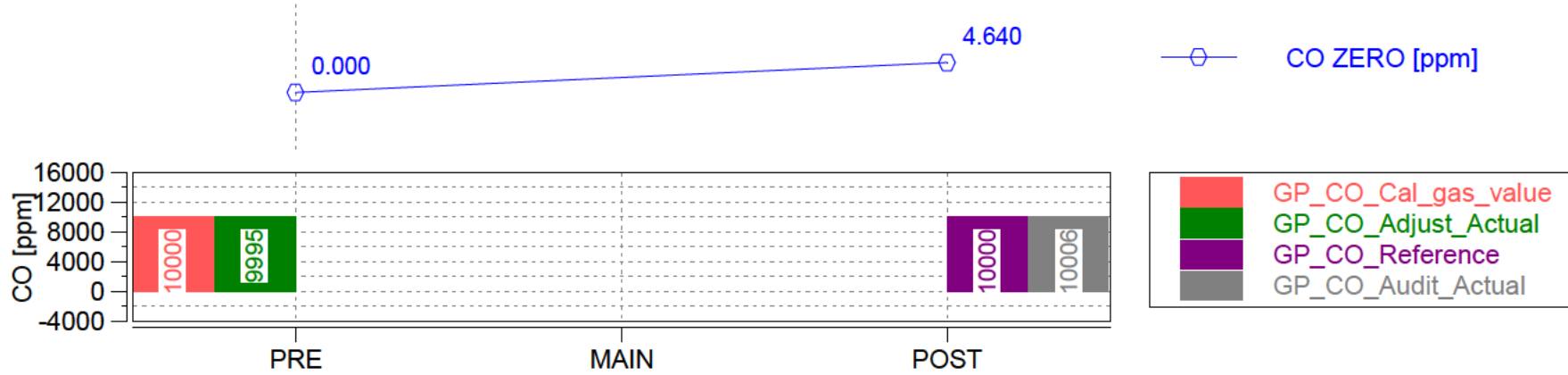
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

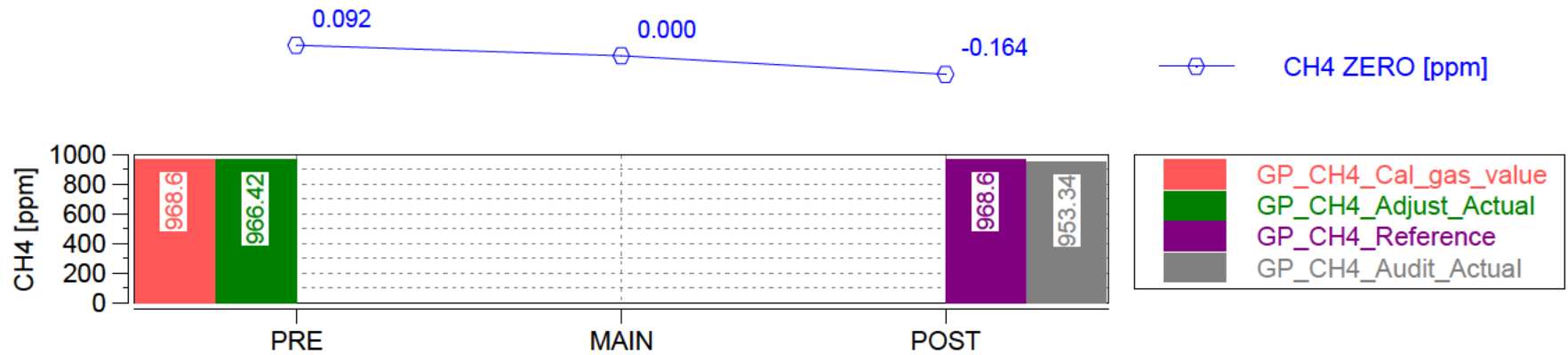
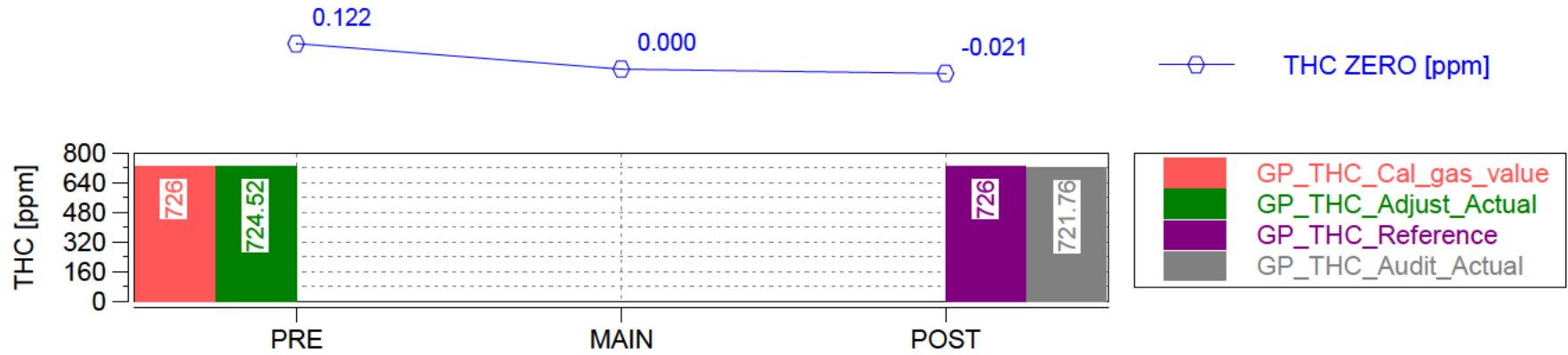
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 08/08/2019
Start Time: 13:00:13.0



Trip Duration	3630.00	s	ave THC	2.73065	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3630.00	s	ave NMHC	2.67604	ppm	BS CO	n/a	g/hphr
Trip Distance	28.22	mi	ave CH4	0.05461	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	28.22	mi	ave CO	21.91579	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	10.69375	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	3.27593	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.38	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.35	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.20	gall	tot THC	0.08105	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.18	gall	tot NMHC	0.07497	g	BS PN	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4	0.00180	g	DS CO2	361.30408	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO	2.21175	g	DS CO	0.07839	g/mi
Trip Fuel Economy EU (ac)	23.60	mpg_US	tot CO2	10194.34681	g	DS THC	0.00287	g/mi
Trip Fuel Economy US (ac)	23.83	mpg_US	tot NO (d)	0.31494	g	DS NMHC	0.00266	g/mi
Trip Av. Eng. Speed	1172.73	rpm	tot NO2	0.05790	g	DS CH4	0.00006	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.37284	g	DS NO (d)	0.01116	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00205	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01321	g/mi
Trip Exhaust Mass	57.07	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	81.14	deg_F	PM correction type	1.00000	alpha(HC)	DS PN	n/a	#/mi
Trip Av. Humidity	45.80	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC	n/a	g/kg
			Trip Av. Veh. Speed	27.98378	mi/hr	FS NMHC	n/a	g/kg
			Trip Velocity Zero	20.96419	%	FS CH4	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
(d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Trip Duration	3630.00	s	ave THC DC	2.68034	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3630.00	s	ave NMHC DC	2.62674	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.22	mi	ave CH4 DC	0.05361	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.22	mi	ave CO DC	21.91400	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	10.69375	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	3.30450	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.38	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.35	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. Volume (b)	0.00	gall	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Cons. Volume (ab)	0.00	gall	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Cons. Volume EU (ac)	1.20	gall	tot THC DC	0.07963	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.18	gall	tot NMHC DC	0.07366	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00176	g	DS CO2 DC	361.30408	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	2.21156	g	DS CO DC	0.07838	g/mi
Trip Fuel Economy EU (ac)	23.60	mpg_US	tot CO2 DC	10194.34681	g	DS THC DC	0.00282	g/mi
Trip Fuel Economy US (ac)	23.83	mpg_US	tot NO DC (d)	0.31872	g	DS NMHC DC	0.00261	g/mi
Trip Av. Eng. Speed	1172.73	rpm	tot NO2 DC	0.05777	g	DS CH4 DC	0.00006	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.37650	g	DS NO DC (d)	0.01130	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00205	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.01334	g/mi
Trip Exhaust Mass	57.07	kg	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Av. Amb. Temperature	81.14	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	45.80	%	tot Soot on PM filter (estim.)	n/a	mg	FS CO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)		Soot --> PM simple scaling factor	1.00000	-	FS CO DC	n/a	g/kg
			Soot --> PM alpha scaling factor	0.00000	-	FS THC DC	n/a	g/kg
			Trip Av. Veh. Speed	27.98378	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	20.96419	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Urban	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS NO2 DC	n/a	g/kg
			Trip Velocity Motorway	100.00000	%	FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) calculated from carbon balance
 (d) NO calculated using molecular weight of NO2

Concerto Version: 480 Build 316, Serial Number: 1120

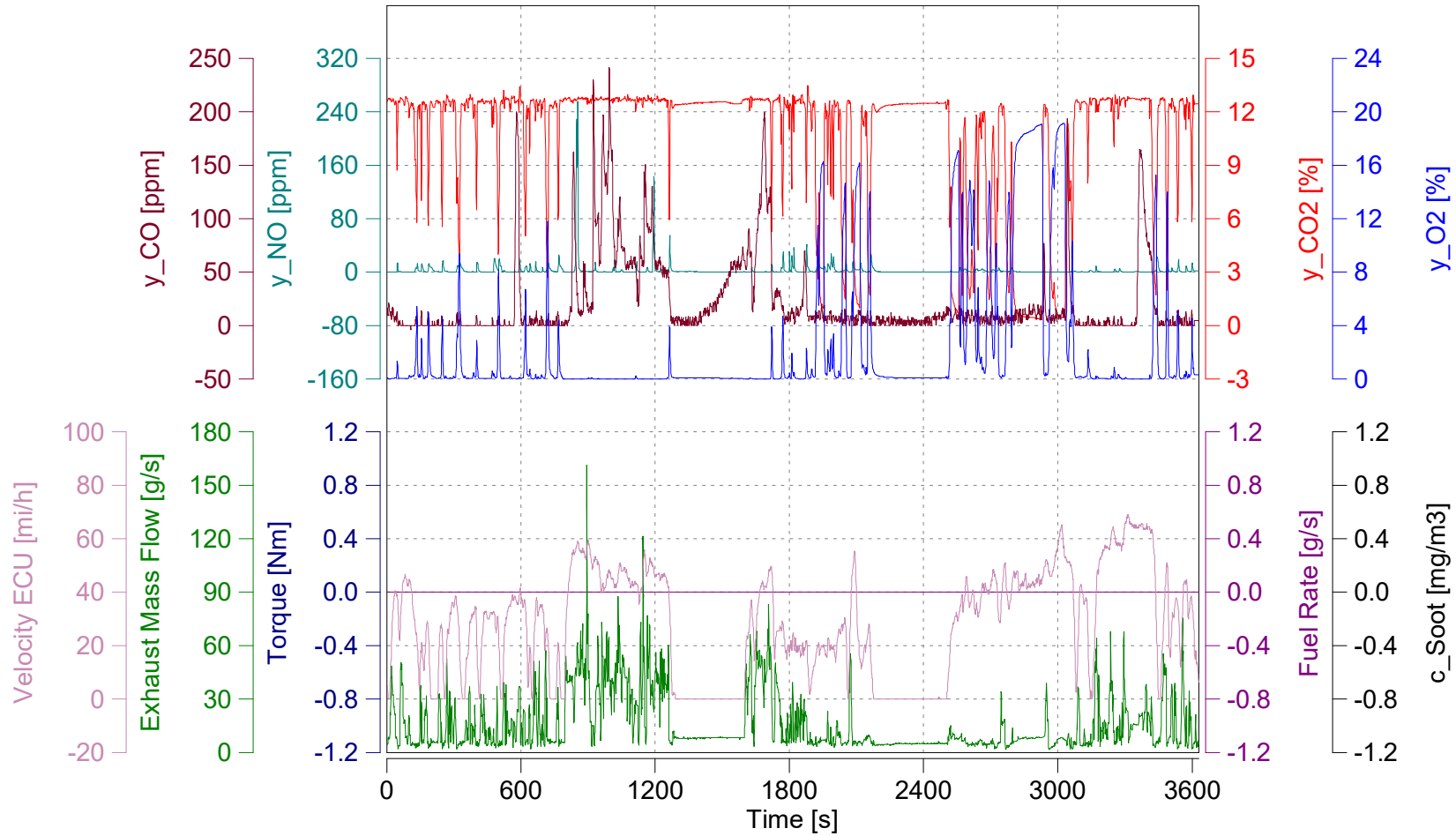
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Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

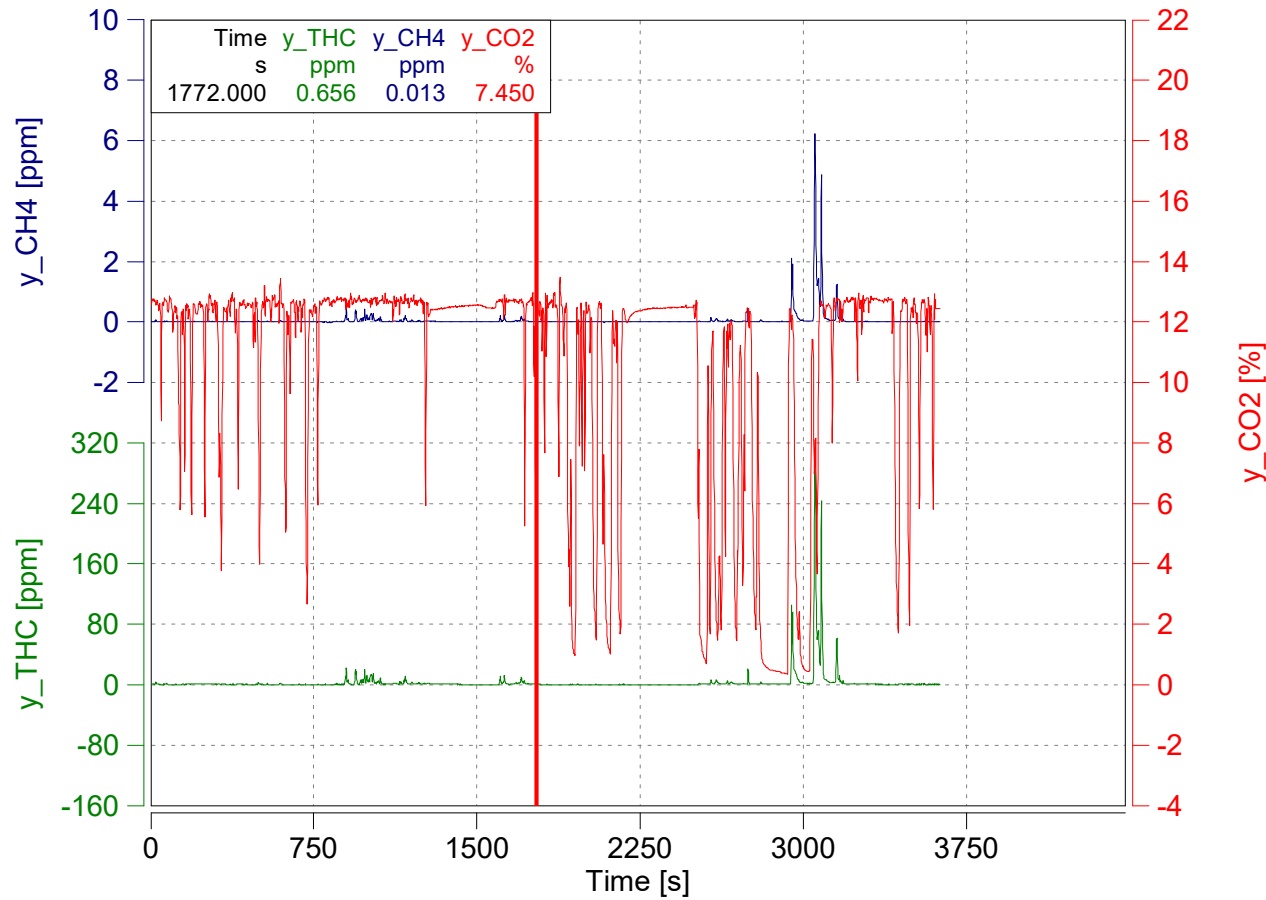
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Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

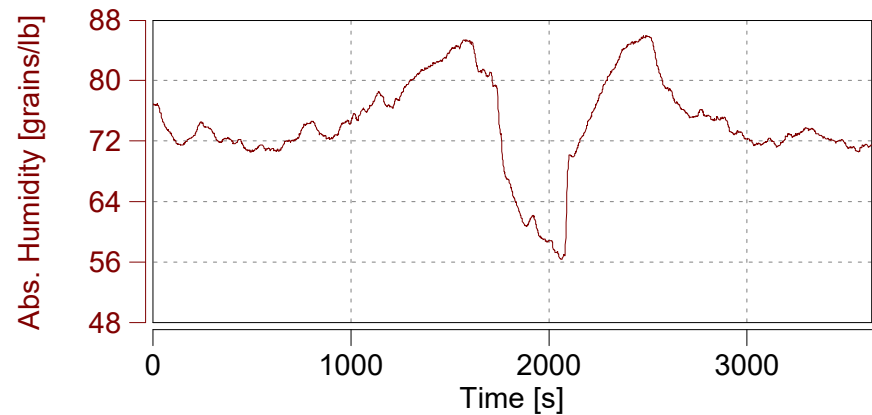
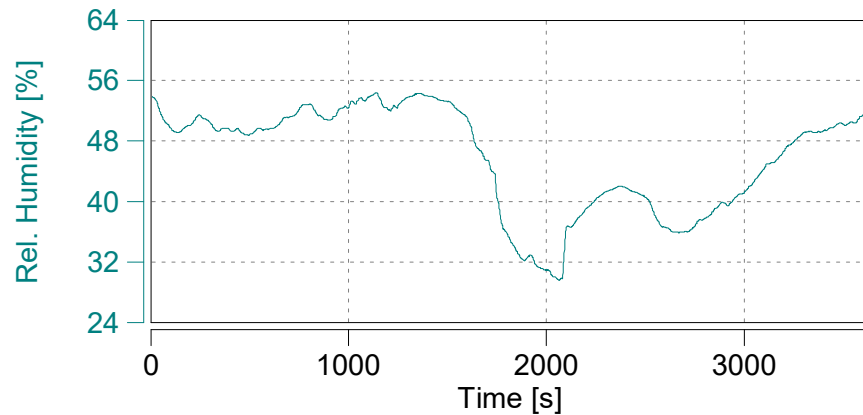
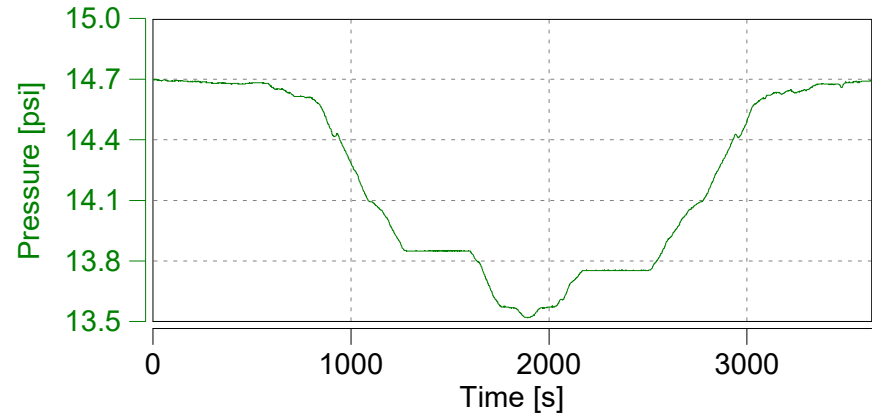
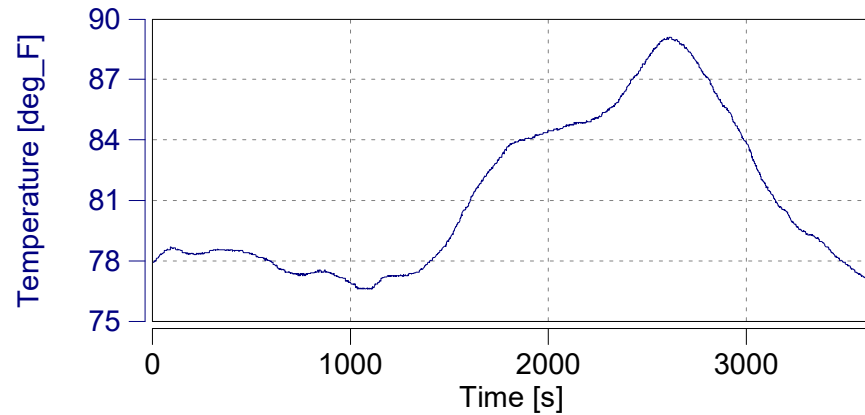


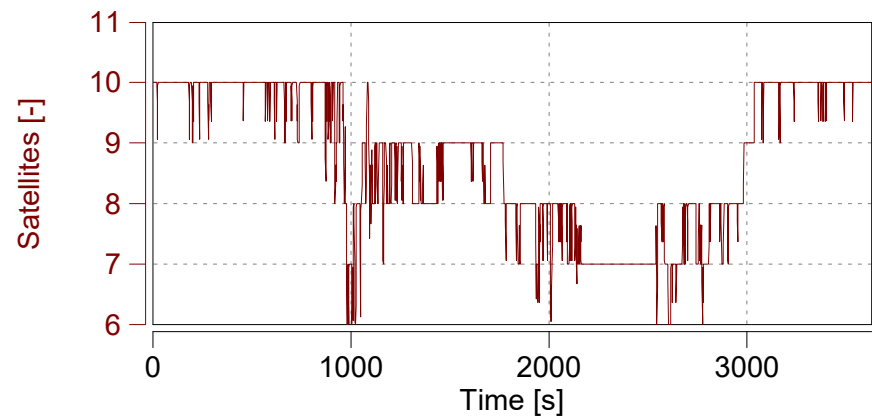
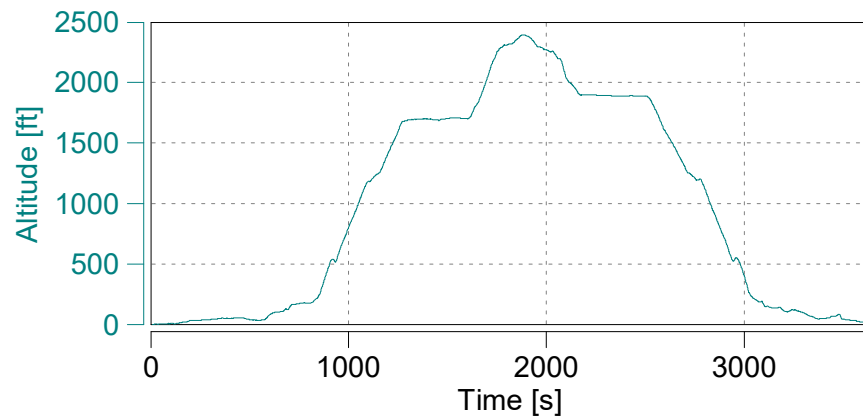
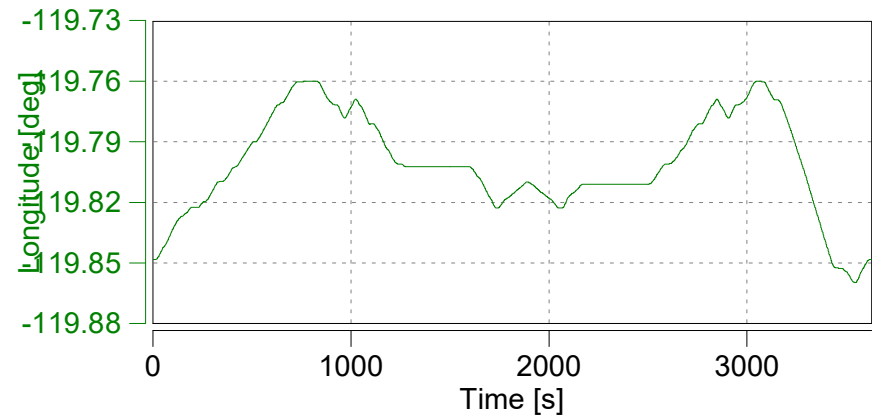
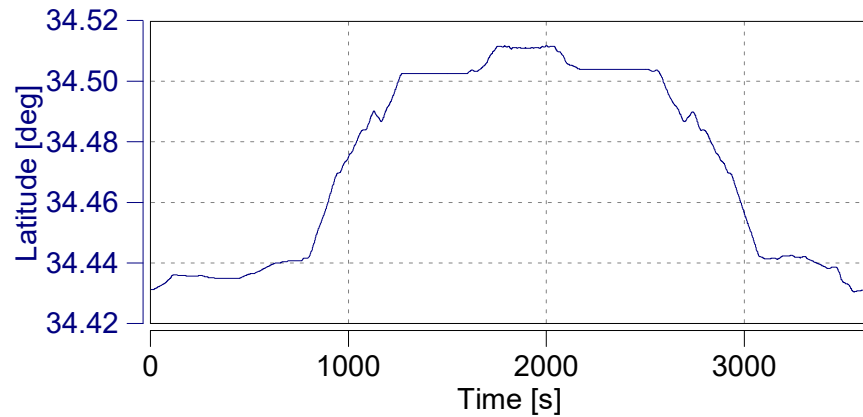
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y_CH4	s	-1.1

Reset Time Shifts in Plot

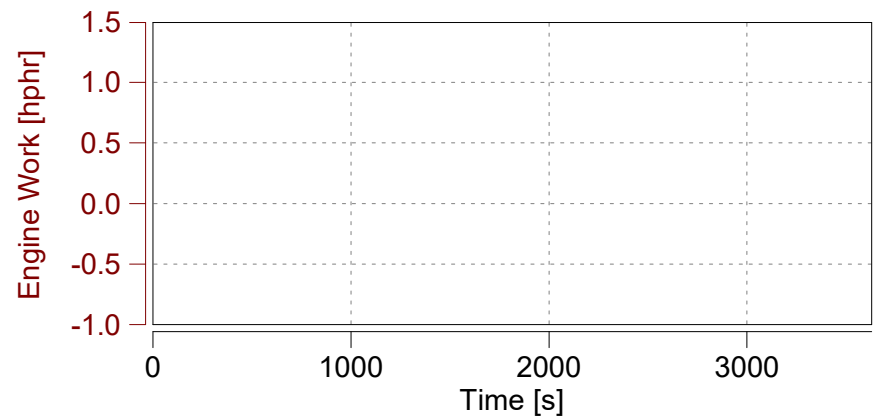
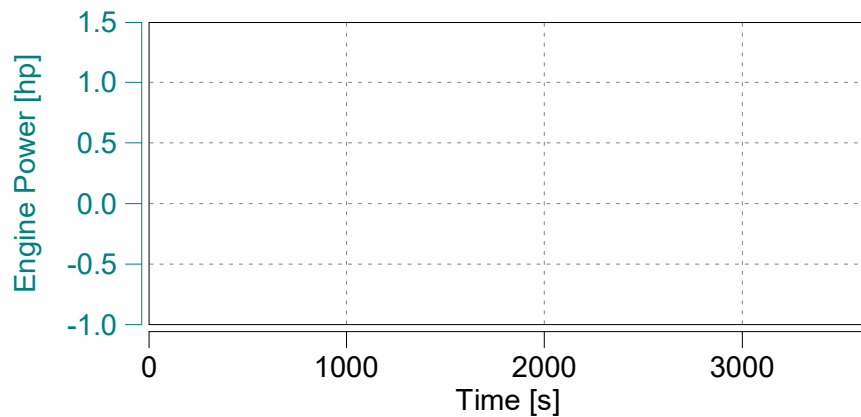
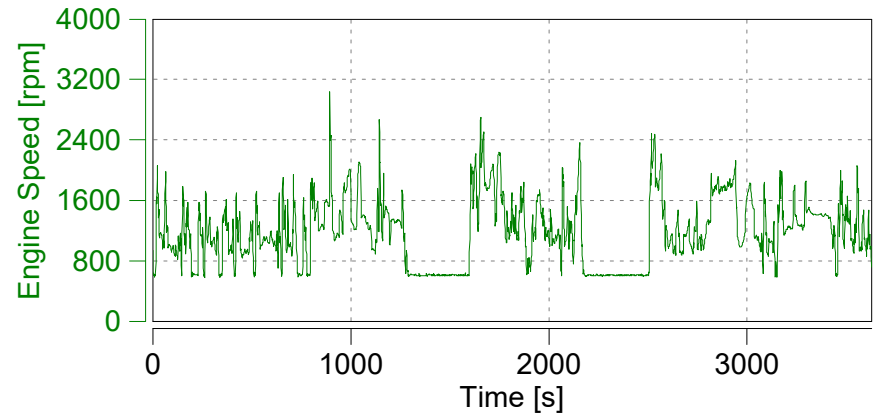
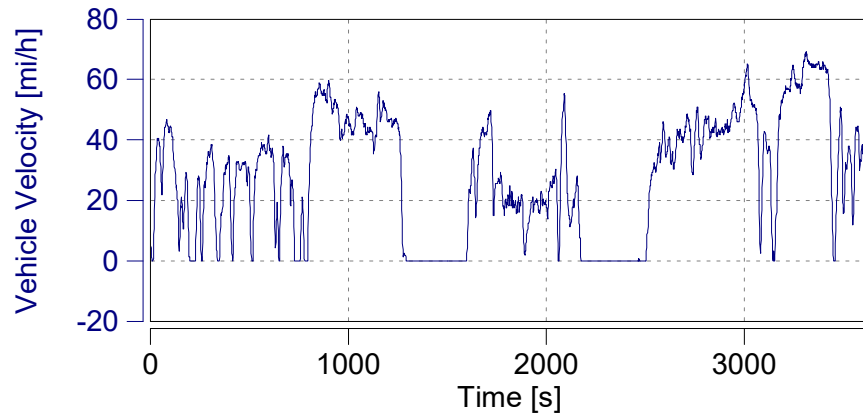
Apply Current Values





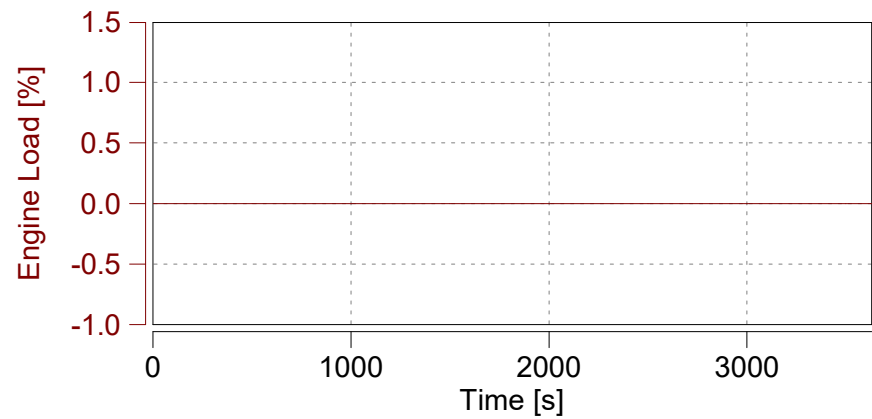
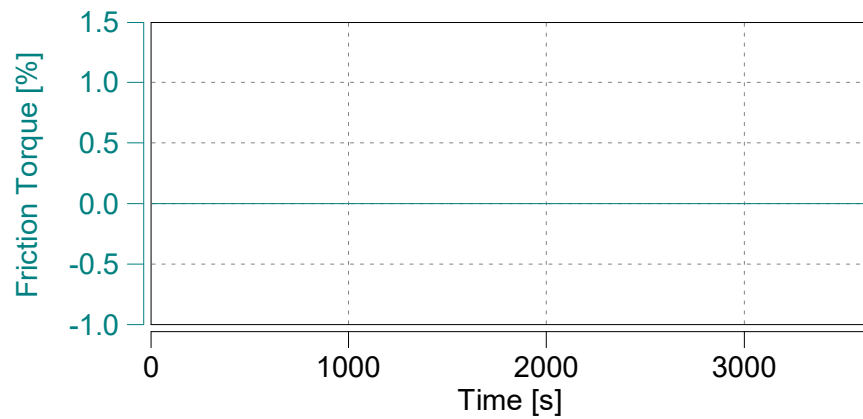
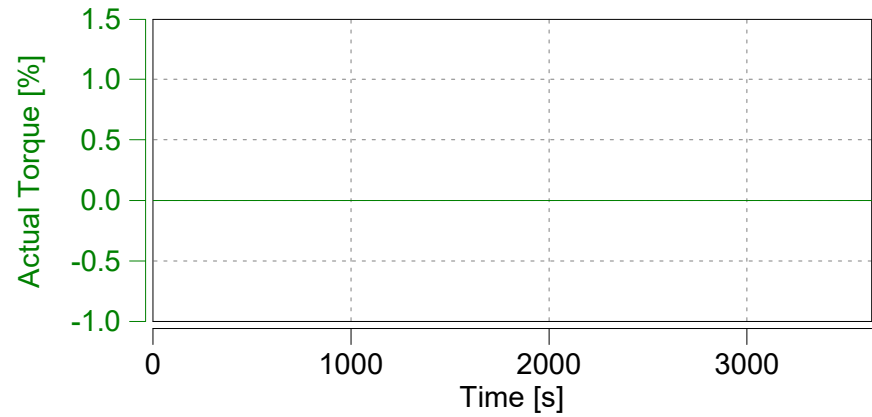
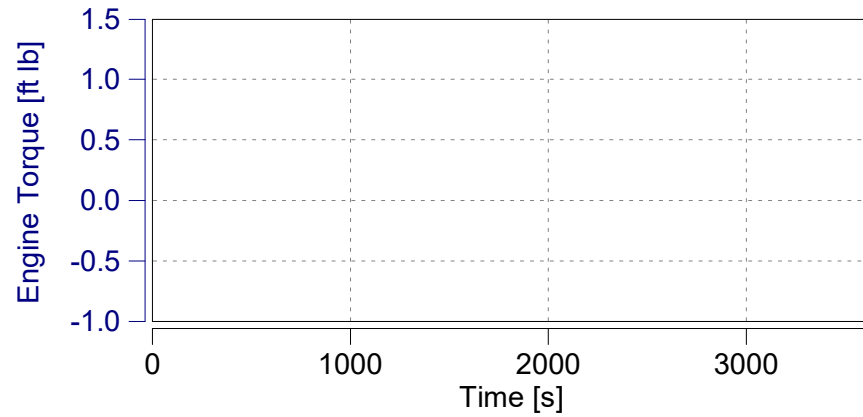
Concerto Version: 480 Build 316, Serial Number: 1120
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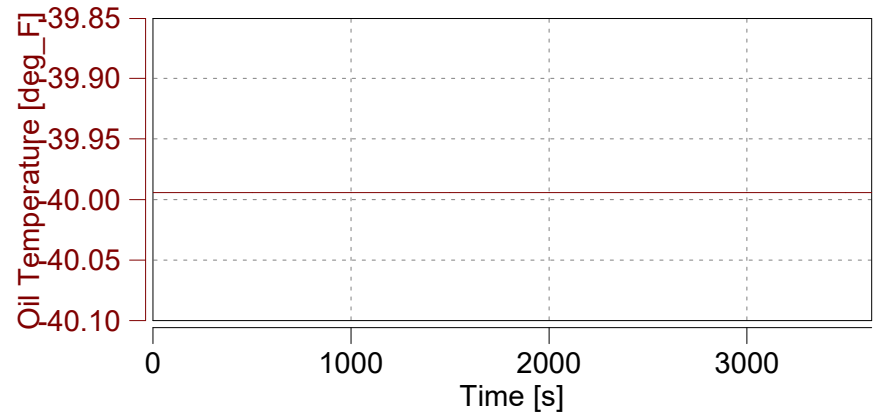
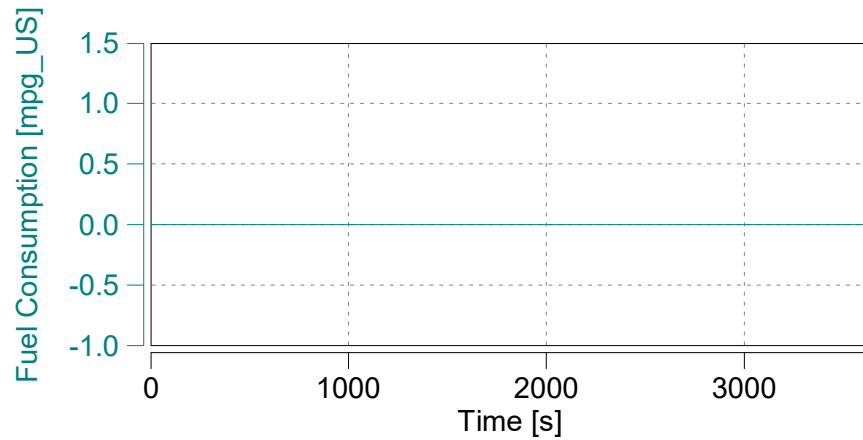
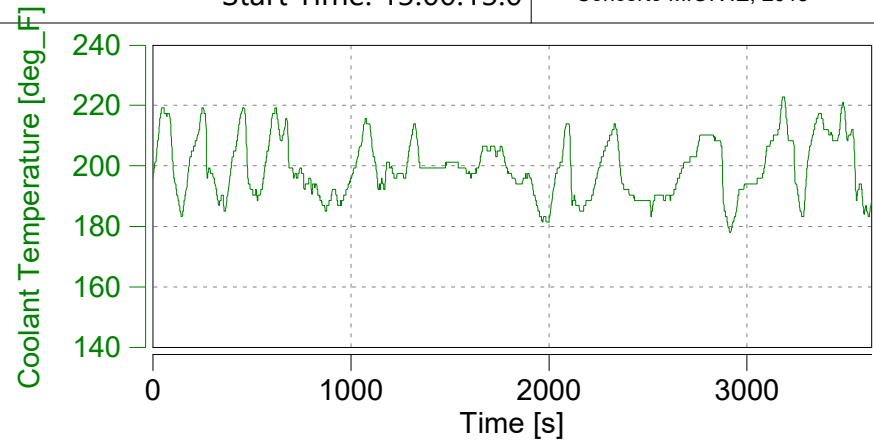
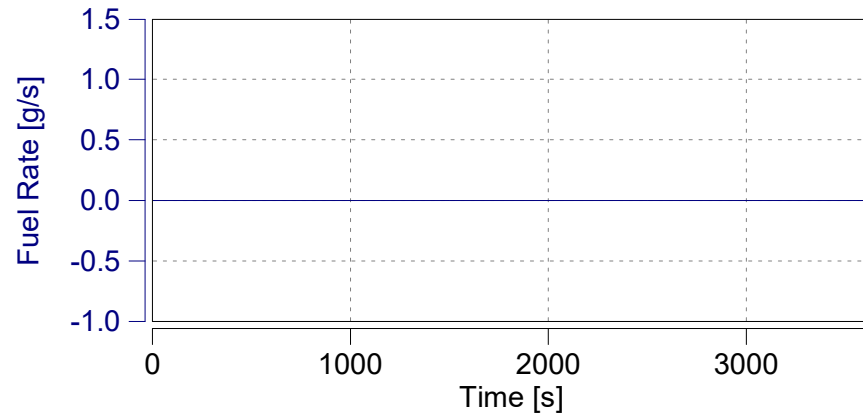
Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

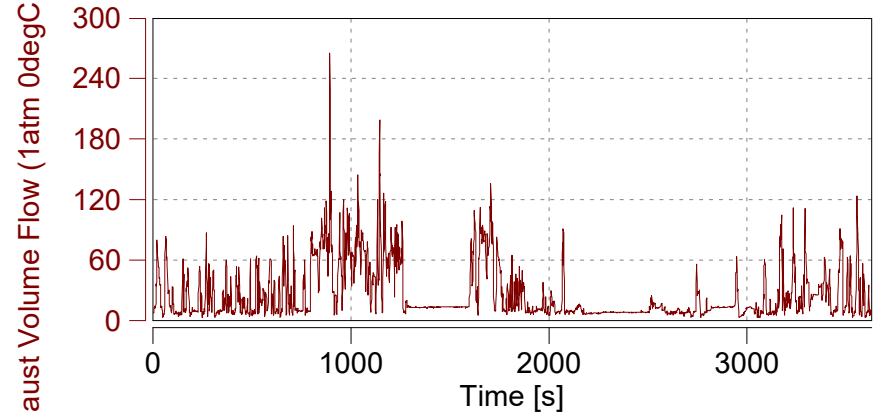
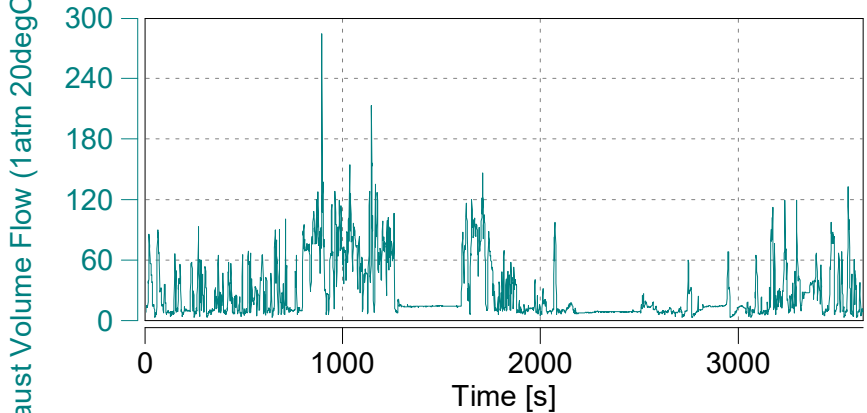
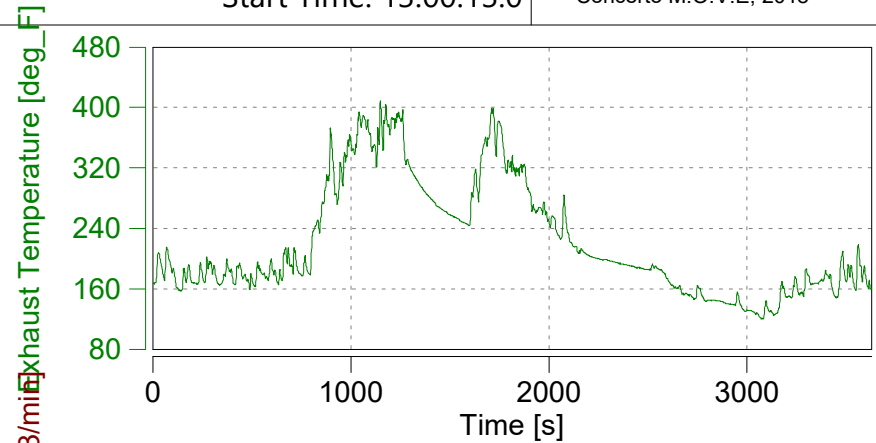
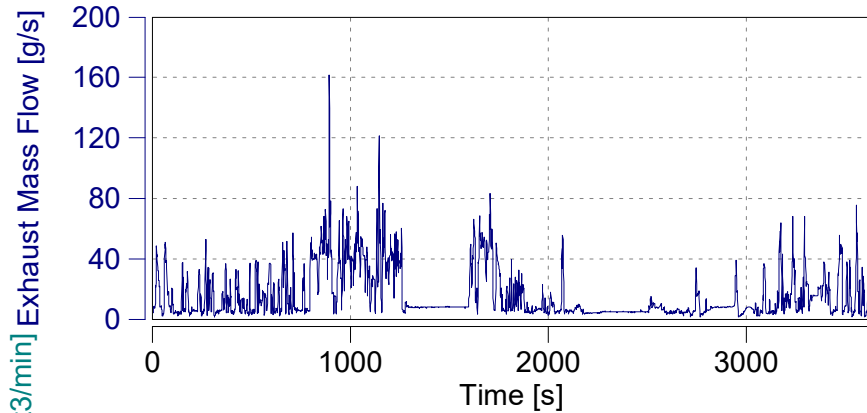
Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





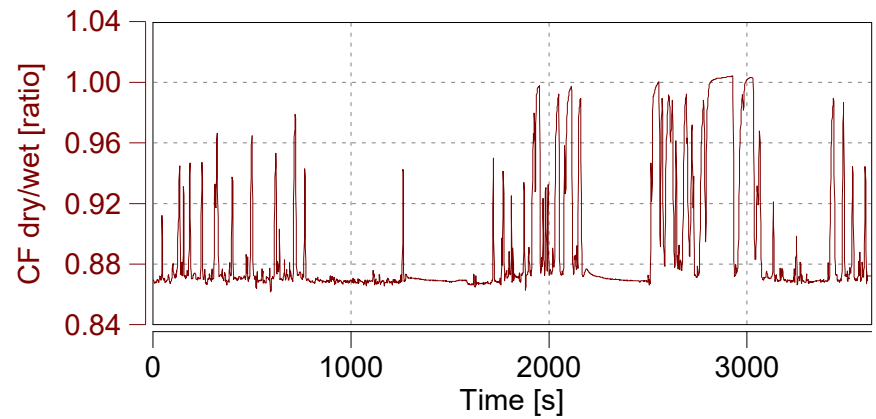
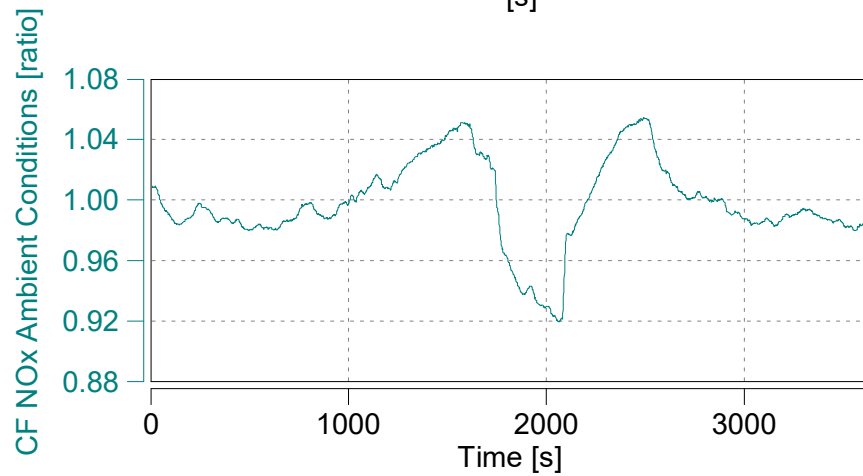
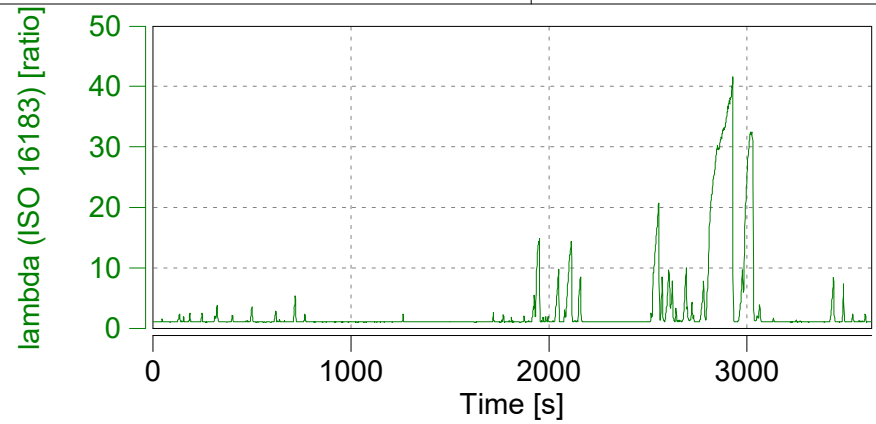
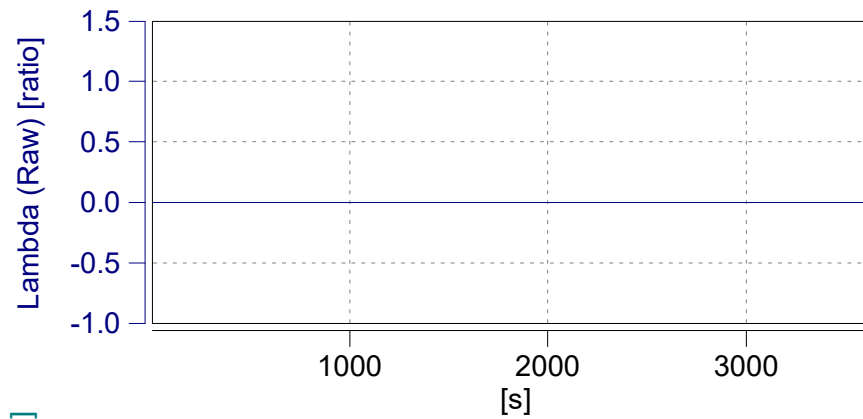
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Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

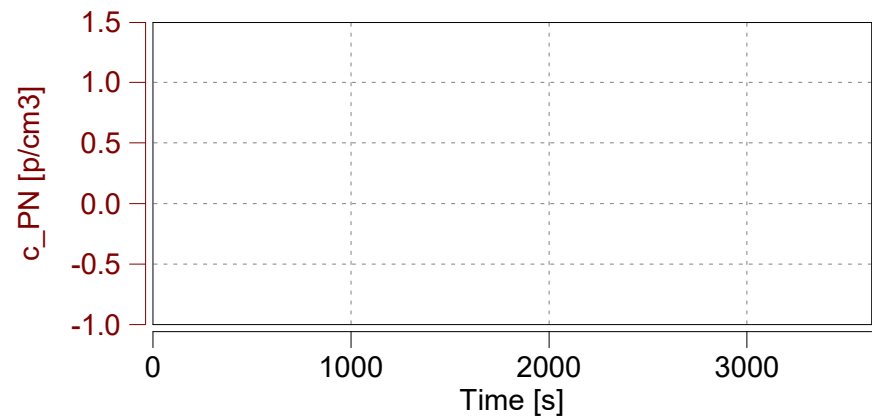
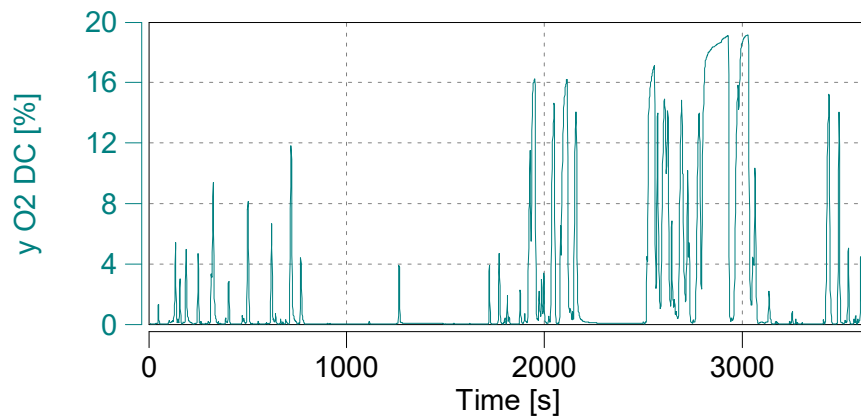
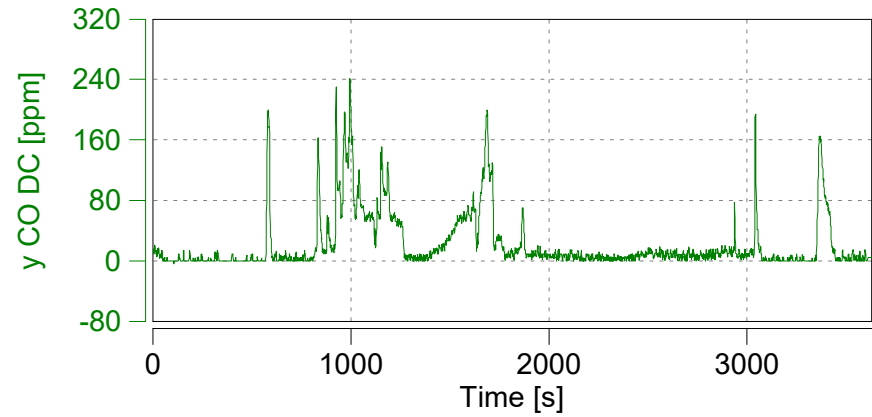
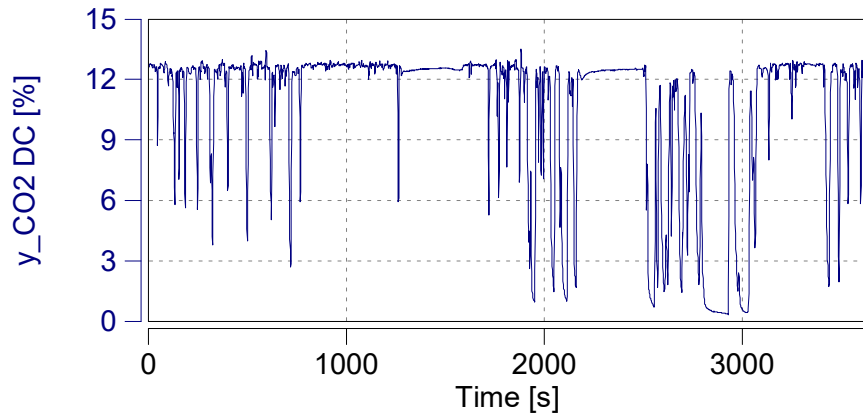
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Vehicle: A6 / 3.0 L

Engine: /

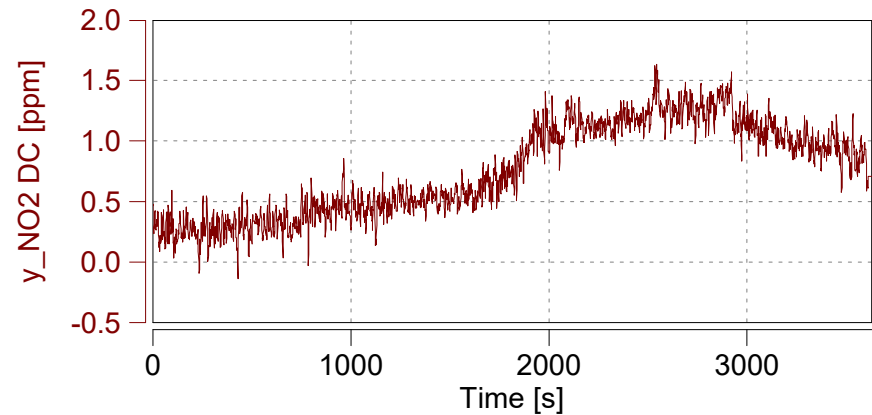
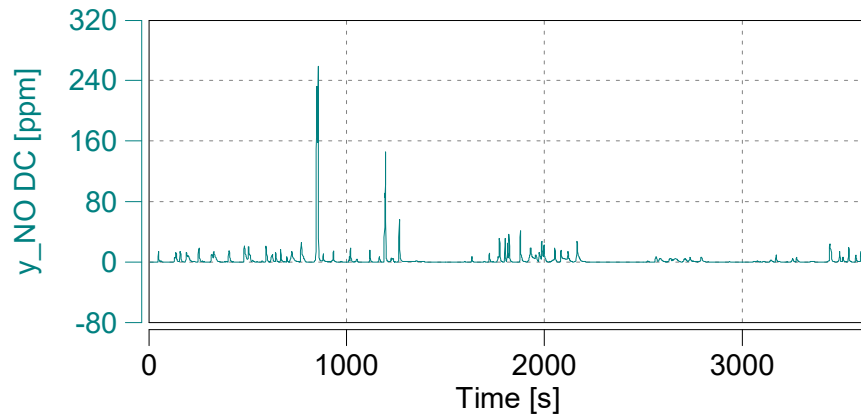
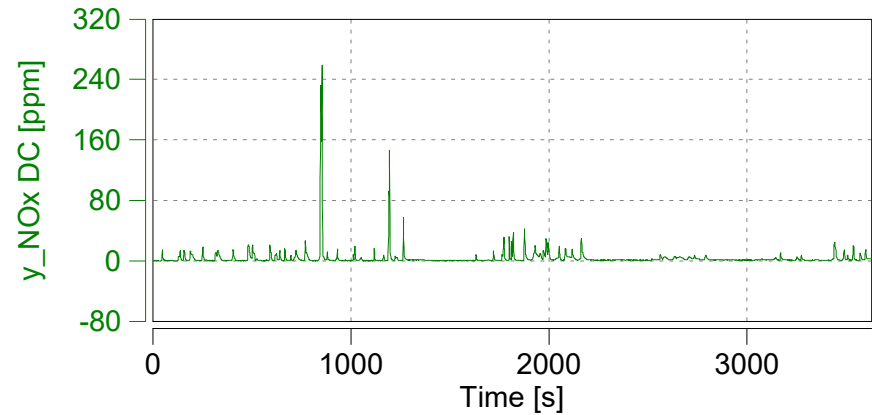
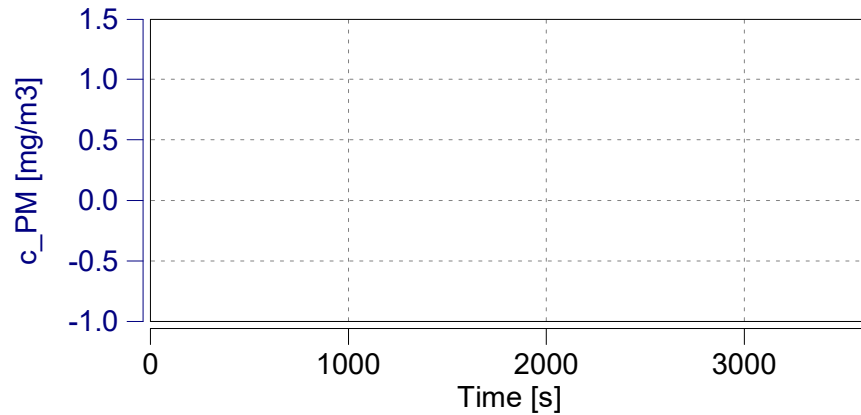
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

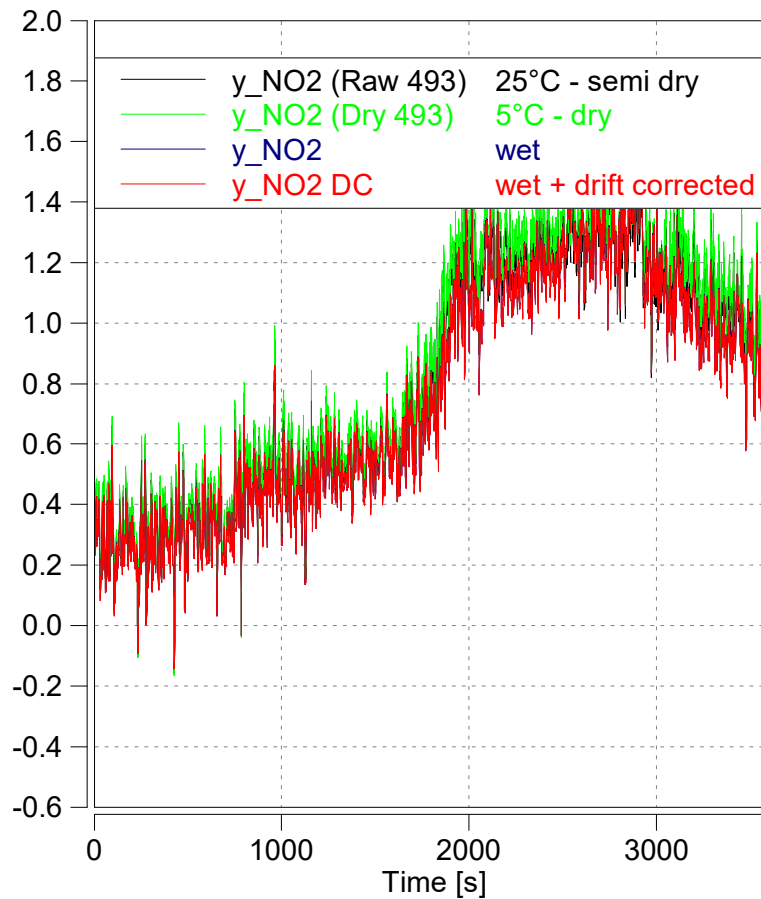
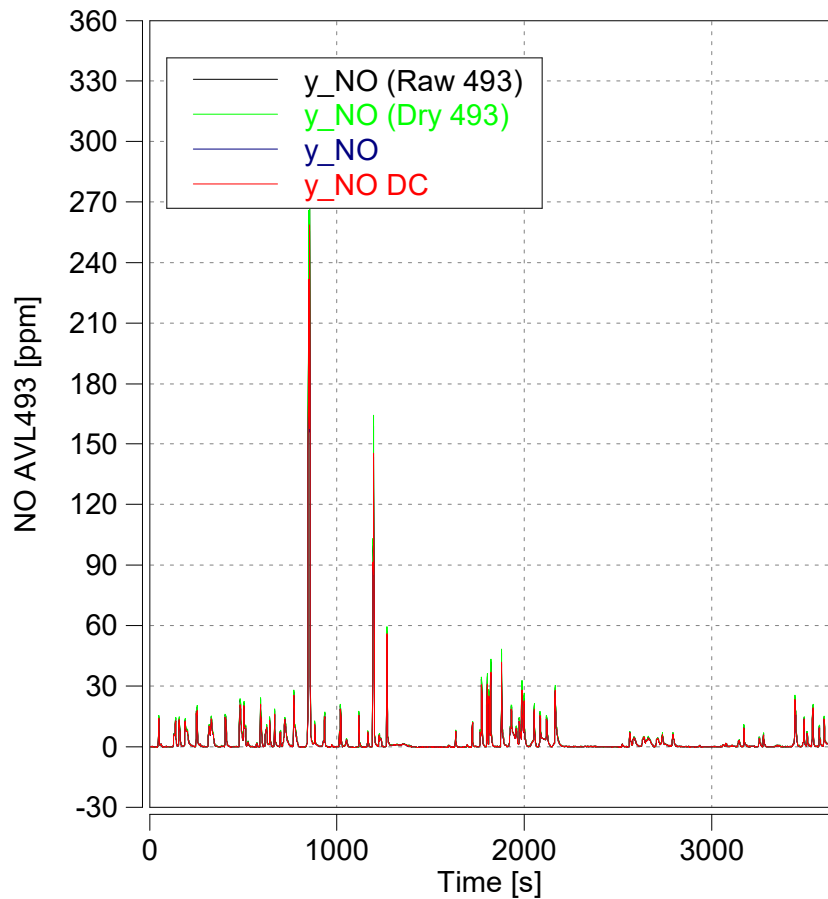
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Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

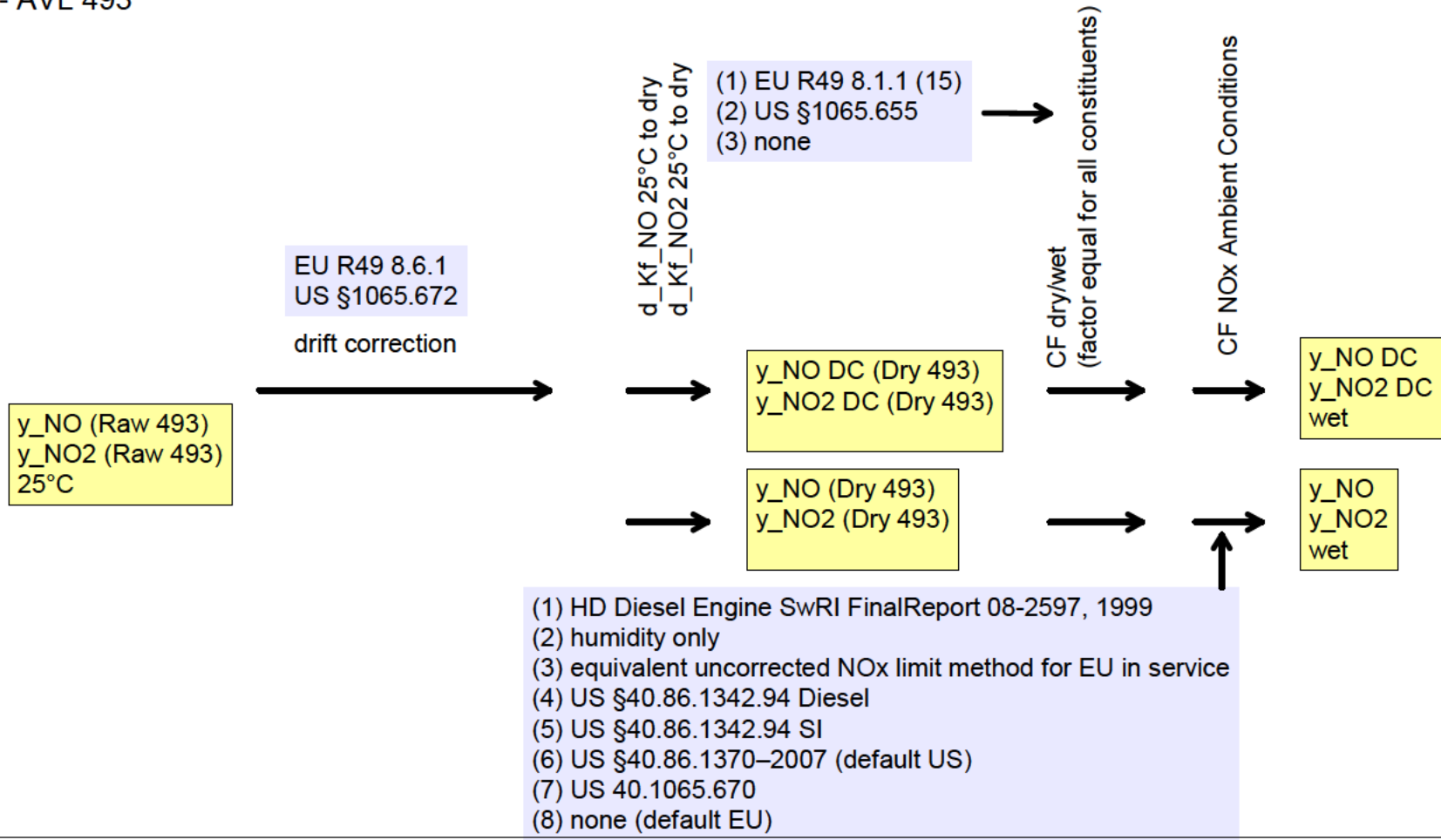


Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: A6 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Mountain

Page: Corrected Emissions (5)

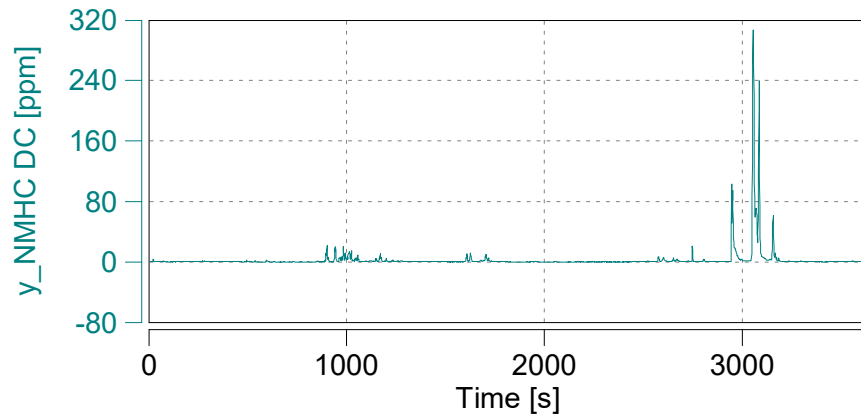
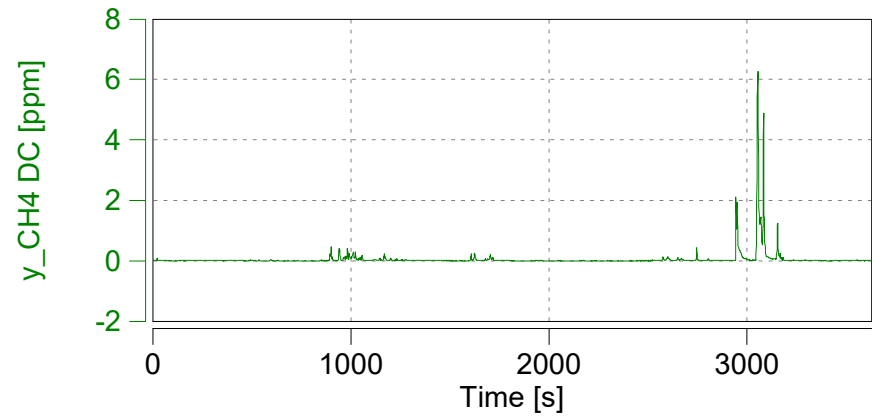
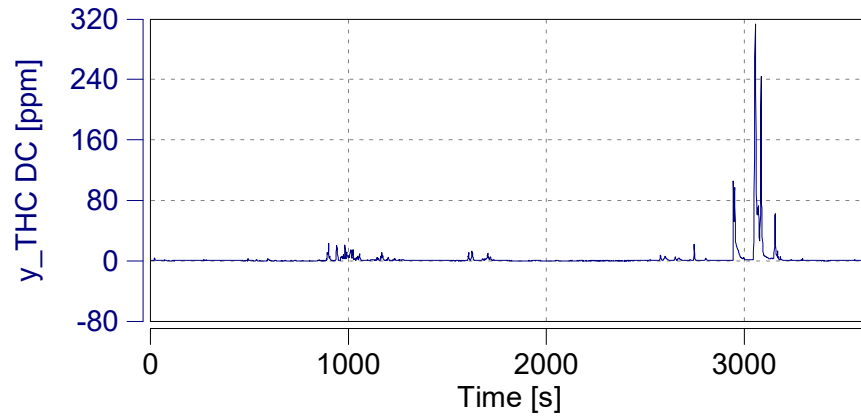
'Mountain'

Start Date: 08/08/2019

Start Time: 13:00:13.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

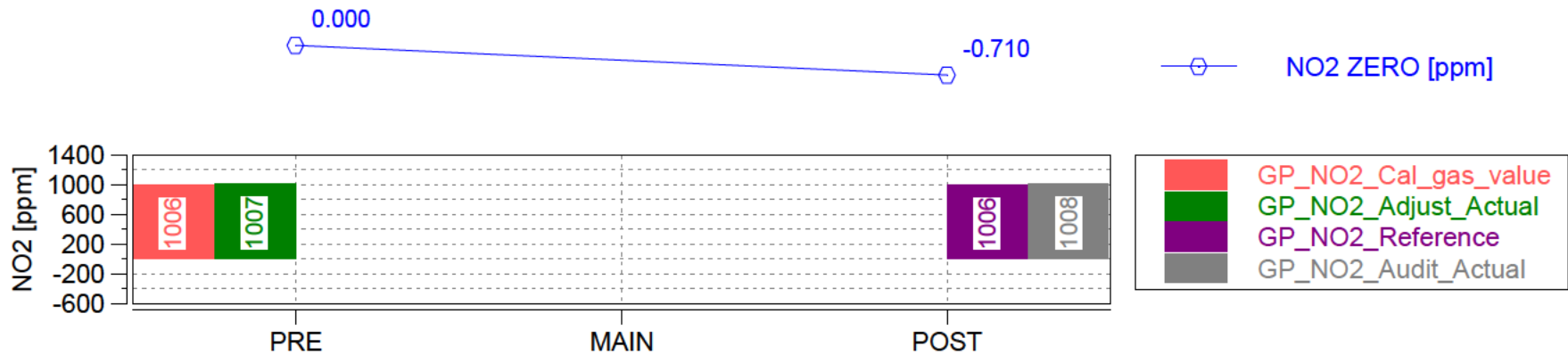
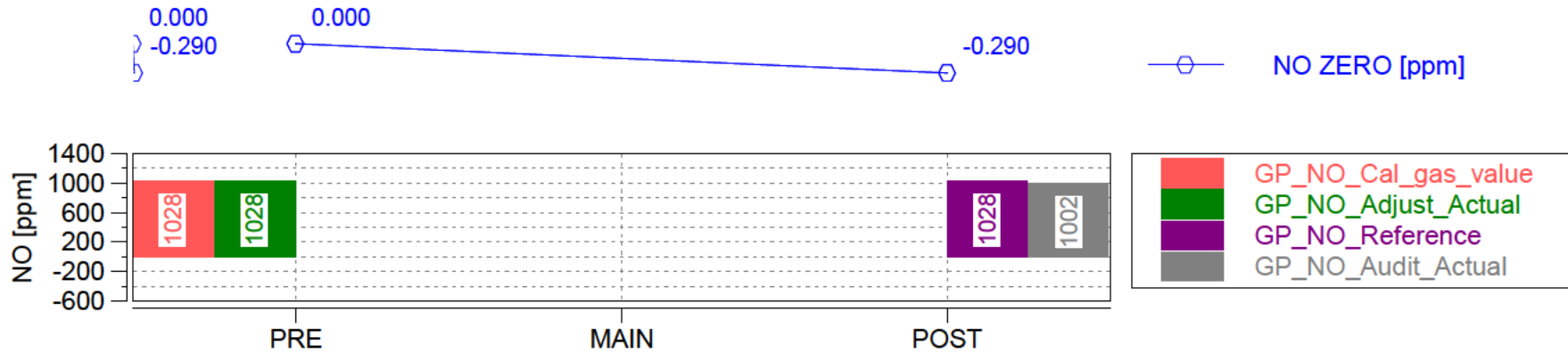
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Vehicle: A6 / 3.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120

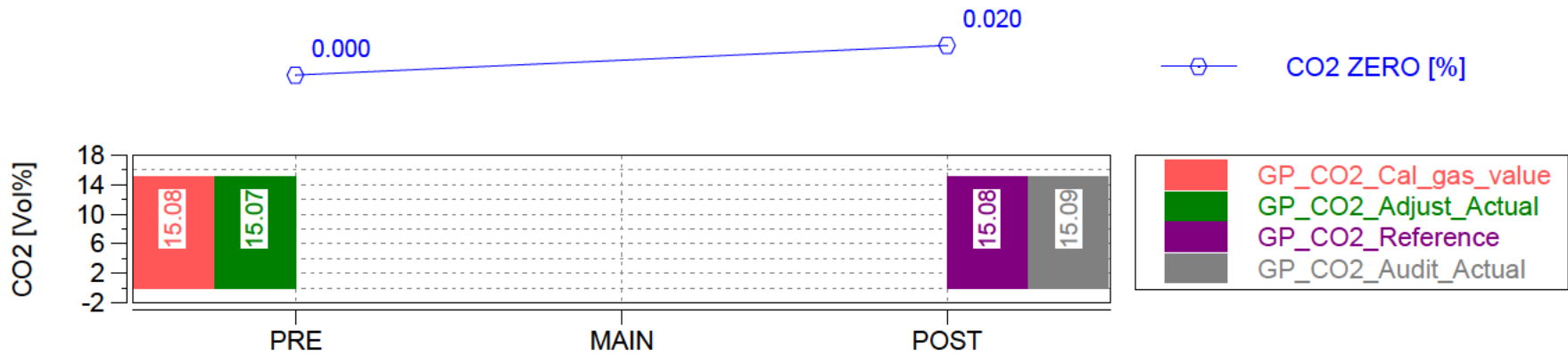
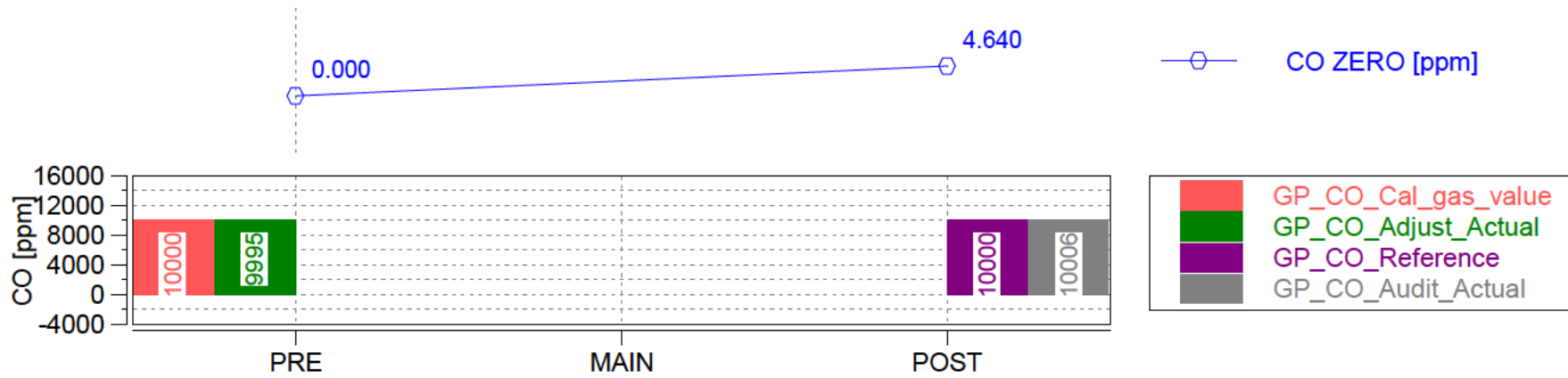
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Vehicle: A6 / 3.0 L

Engine: /

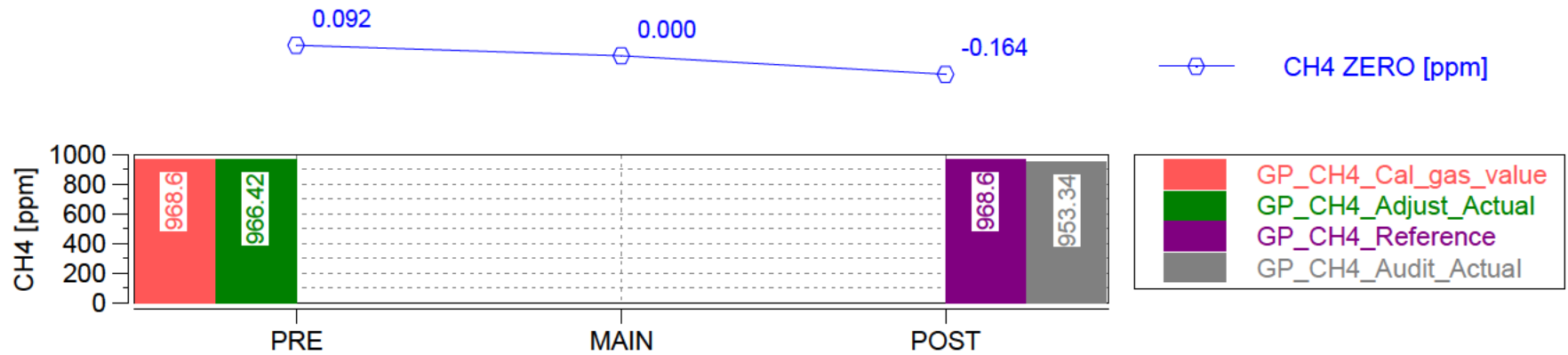
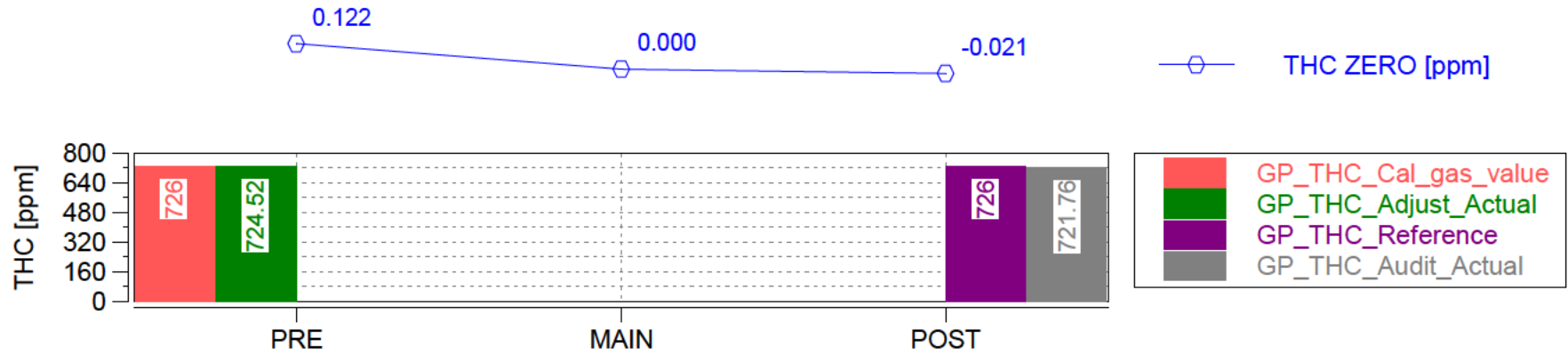
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: A6 / 3.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City
Page: Trip Summary

'City'
Start Date: 08/29/2019
Start Time: 13:52:42.0



Trip Duration	4423.00	s	ave THC	-0.85355	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	4423.00	s	ave NMHC	-0.83648	ppm	BS CO	n/a	g/hphr
Trip Distance	16.03	mi	ave CH4	-0.01707	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	16.03	mi	ave CO	6.00899	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.17808	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	5.66613	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.45	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.43	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	18.52	mpg_US	tot THC	0.00675	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	18.71	mpg_US	tot NMHC	0.00625	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.00015	g	DS CO2	461.07938	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	0.29930	g	DS CO	0.01867	g/mi
Trip Fuel Economy EU GGE (ac)	18.52	mpg_US	tot CO2	7392.72970	g	DS THC	0.00042	g/mi
Trip Fuel Economy US GGE (ac)	18.71	mpg_US	tot NO (d)	0.33662	g	DS NMHC	0.00039	g/mi
Trip Av. Eng. Speed	1131.75	rpm	tot NO2	-0.01781	g	DS CH4	0.00001	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.31882	g	DS NO (d)	0.02099	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	-0.00111	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01988	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	39.13	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	77.30	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	53.07	%	Trip Av. Veh. Speed	13.05216	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	73.45	m	Trip Velocity Zero	38.43545	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	84.90635	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	15.09365	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0



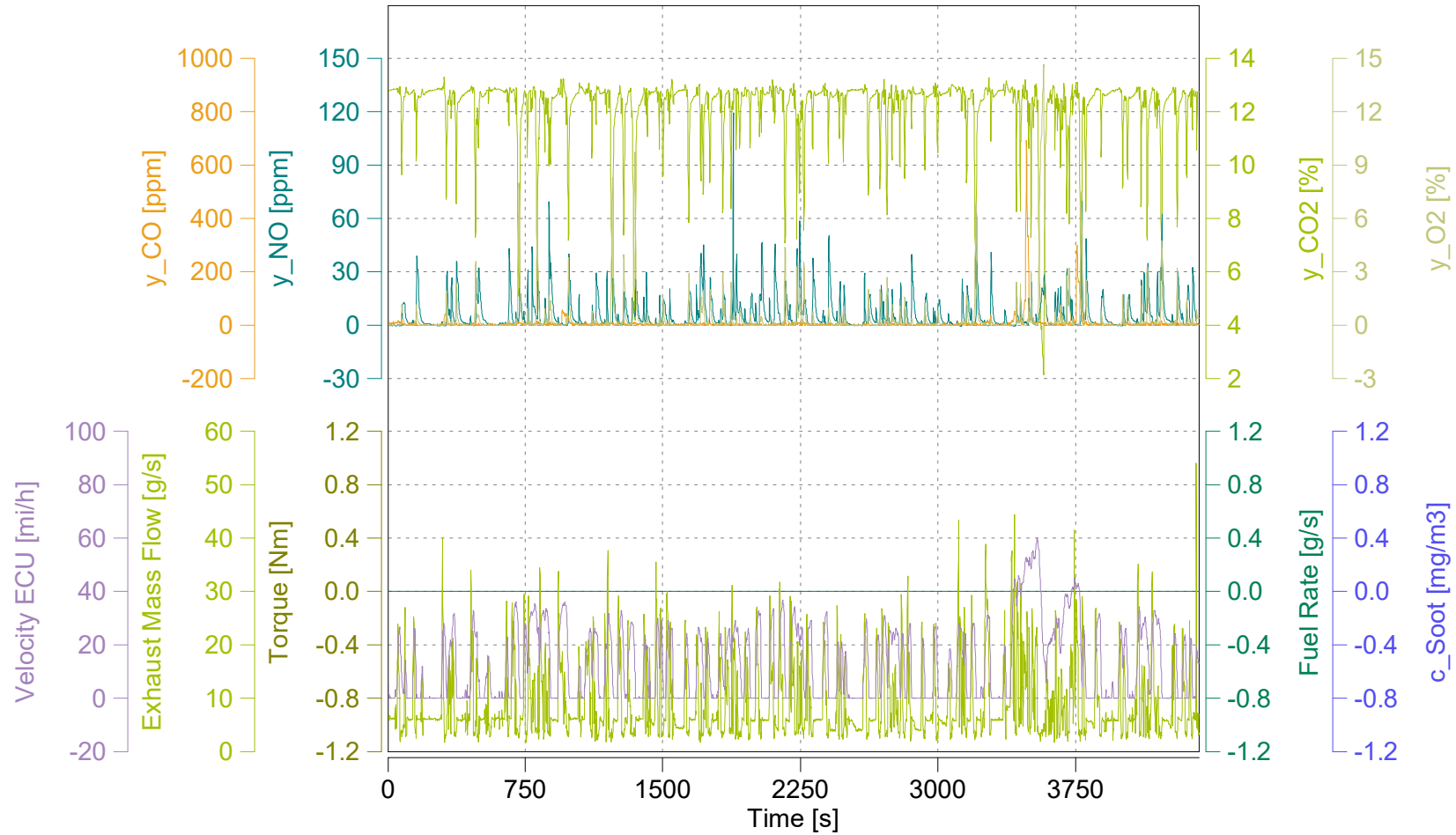
Concerto M.O.V.E., 2019

Trip Duration	4423.00	s	ave THC DC	-0.81626	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	4423.00	s	ave NMHC DC	-0.79993	ppm	BS CO DC	n/a	g/hphr
Trip Distance	16.03	mi	ave CH4 DC	-0.01633	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	16.03	mi	ave CO DC	6.00529	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.15792	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	5.70514	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.45	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.43	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	18.52	mpg_US	tot THC DC	0.00760	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	18.71	mpg_US	tot NMHC DC	0.00703	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4 DC	0.00017	g	DS CO2 DC	460.31625	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO DC	0.29911	g	DS CO DC	0.01866	g/mi
Trip Fuel Economy EU GGE (ac)	18.52	mpg_US	tot CO2 DC	7380.49414	g	DS THC DC	0.00047	g/mi
Trip Fuel Economy US GGE (ac)	18.71	mpg_US	tot NO DC (d)	0.33863	g	DS NMHC DC	0.00044	g/mi
Trip Av. Eng. Speed	1131.75	rpm	tot NO2 DC	-0.01759	g	DS CH4 DC	0.00001	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.32103	g	DS NO DC (d)	0.02112	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	-0.00110	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.02002	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	39.13	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN DC	n/a	#/mi
Trip Av. Amb. Temperature	77.30	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Av. Humidity	53.07	%	Trip Av. Veh. Speed	13.05216	mi/hr	FS CO DC	n/a	g/kg
Trip Av. GPS Altitude	73.45	m	Trip Velocity Zero	38.43545	%	FS THC DC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	84.90635	%	FS NMHC DC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Motorway	15.09365	%	FS NO DC (d)	n/a	g/kg
						FS NO2 DC	n/a	g/kg
						FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

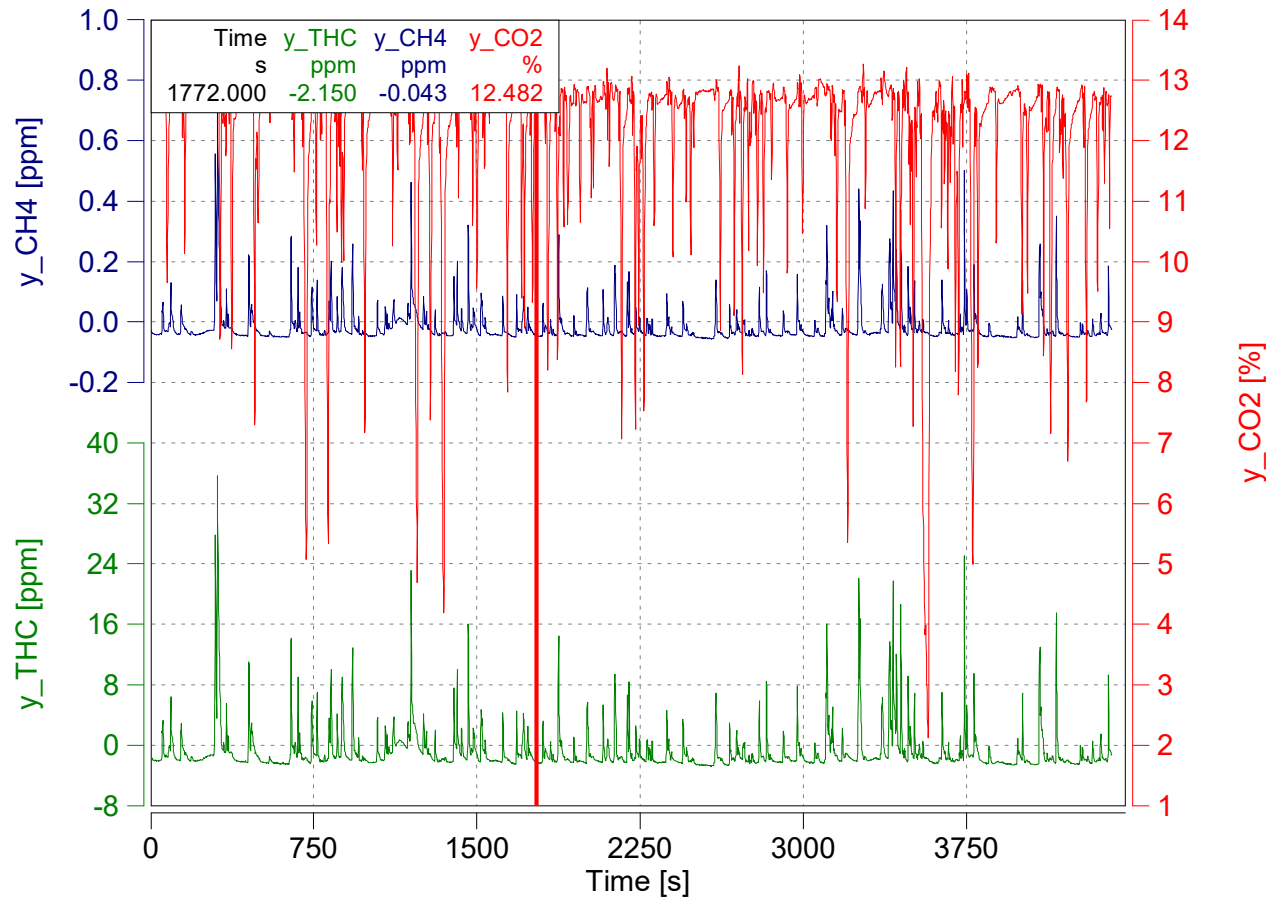
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-4.3
y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Ambient Conditions

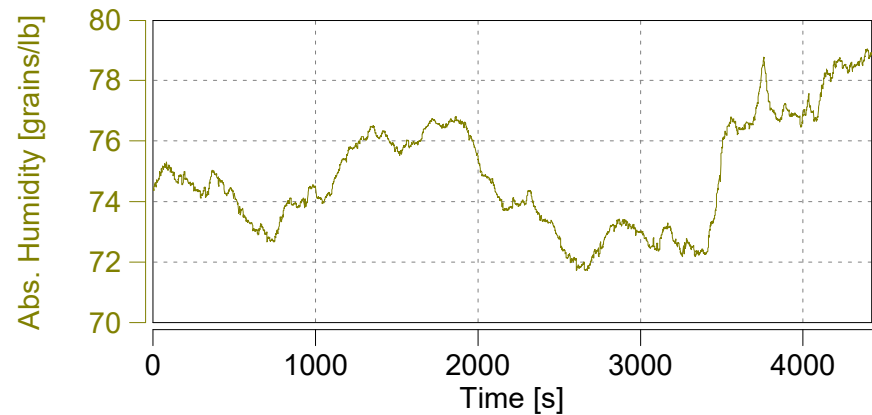
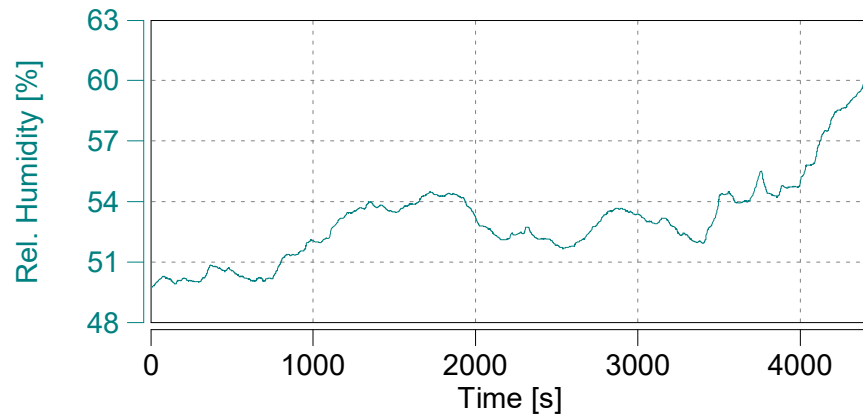
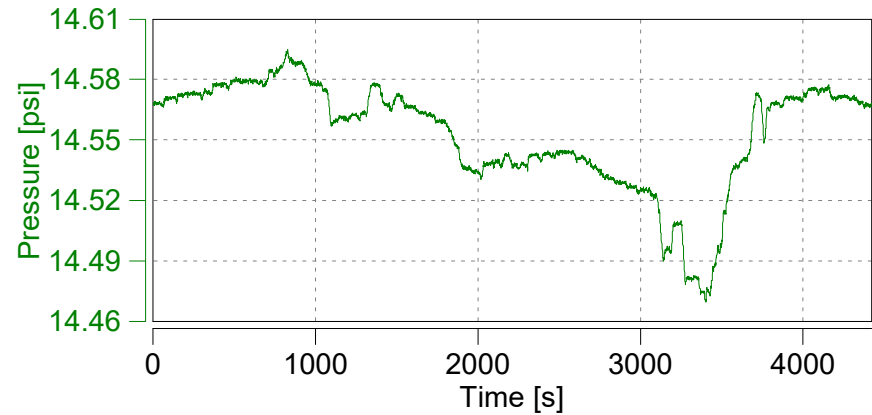
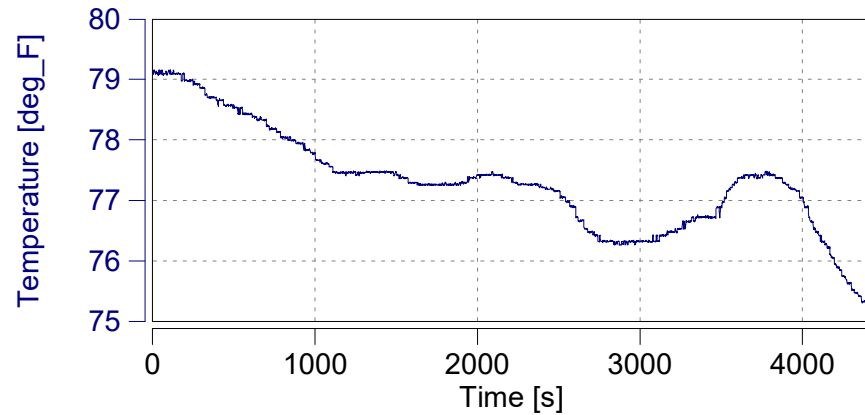
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0

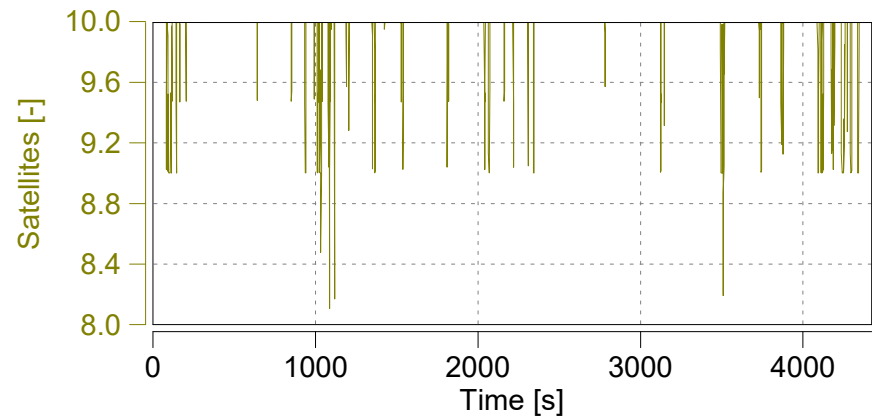
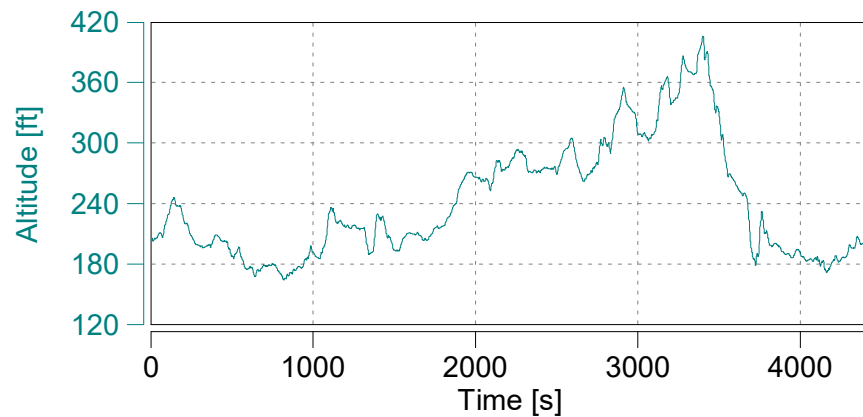
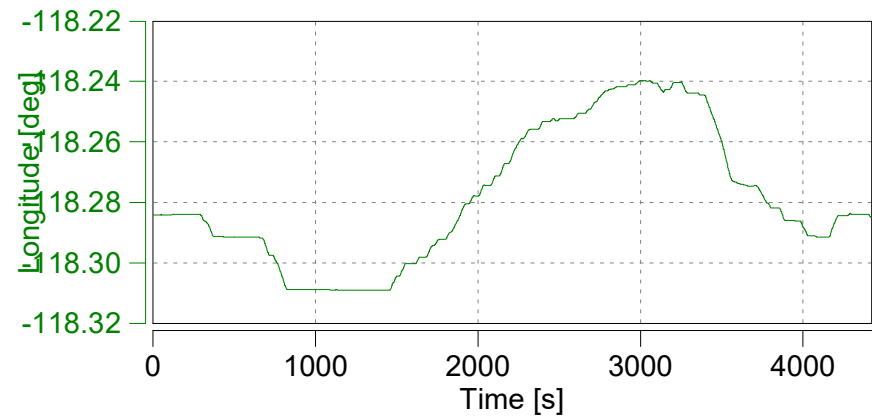
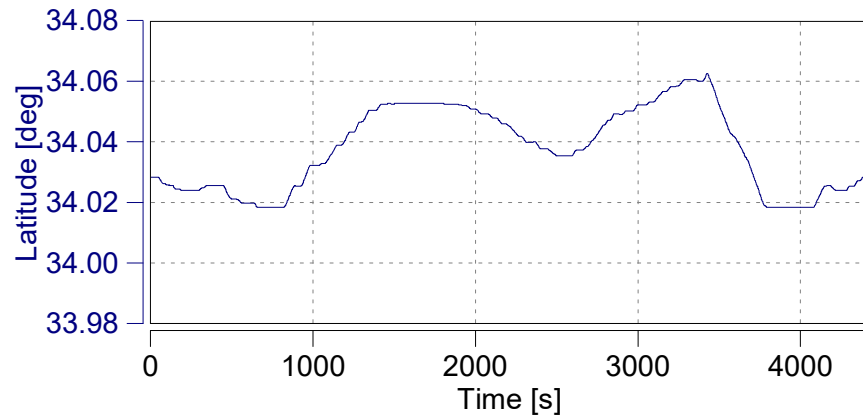


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (1)

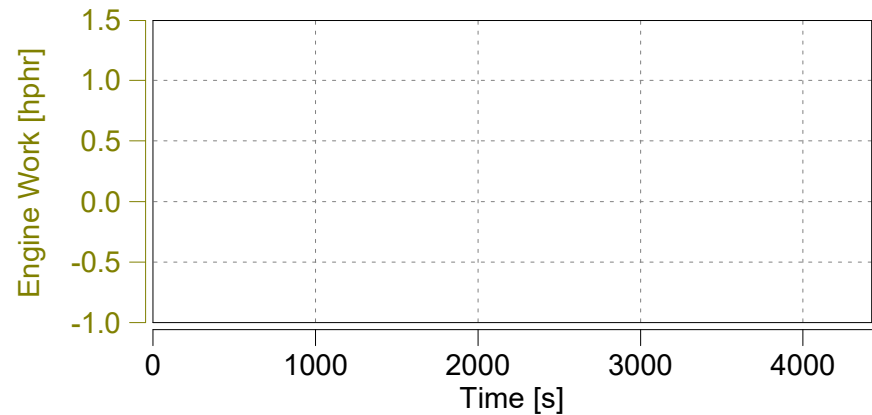
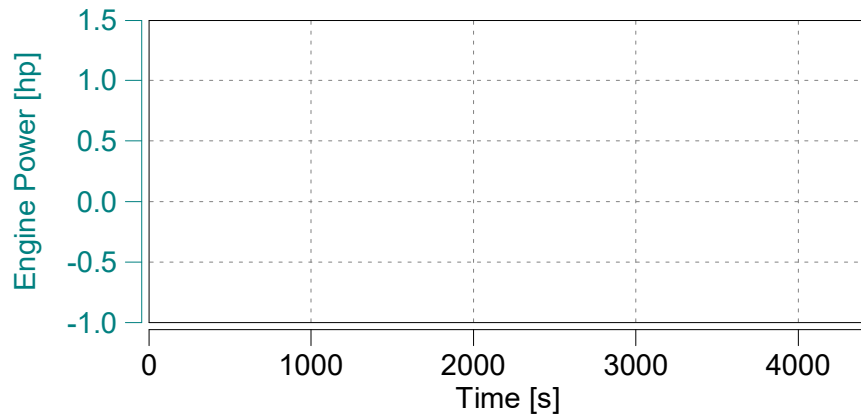
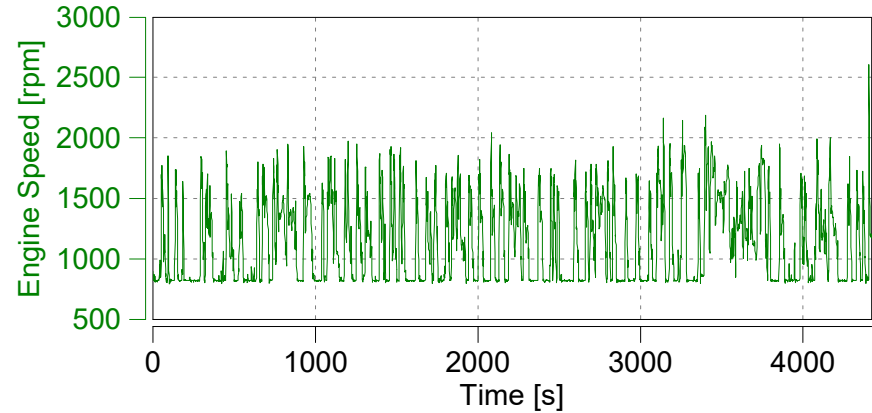
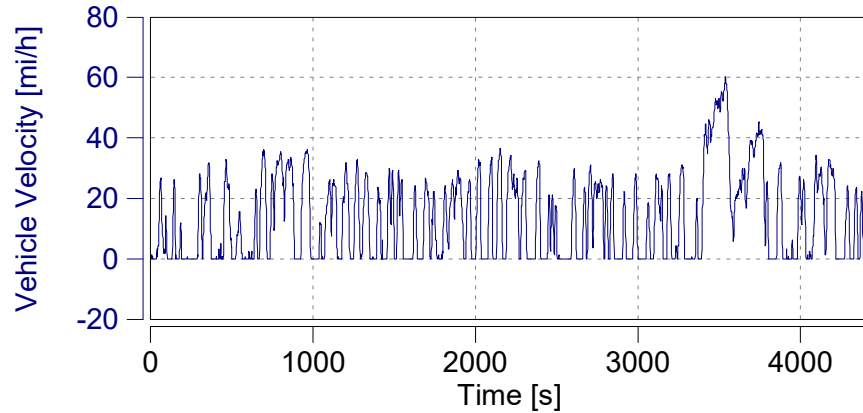
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0

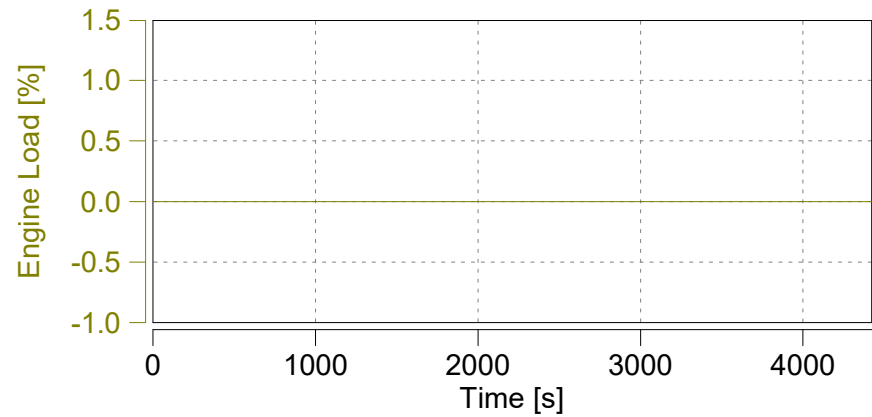
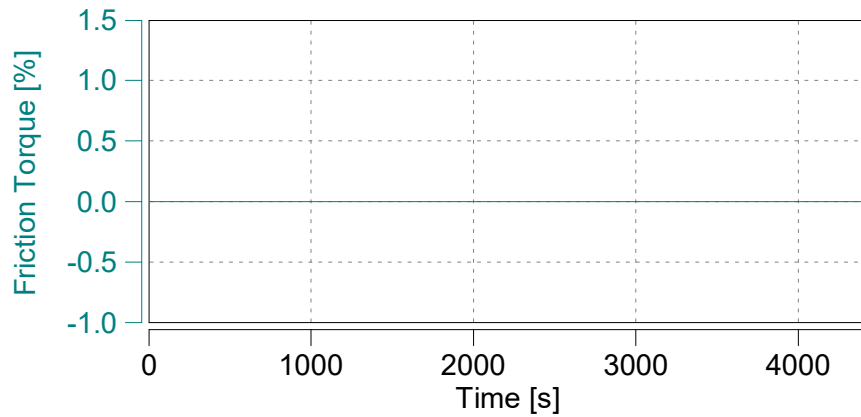
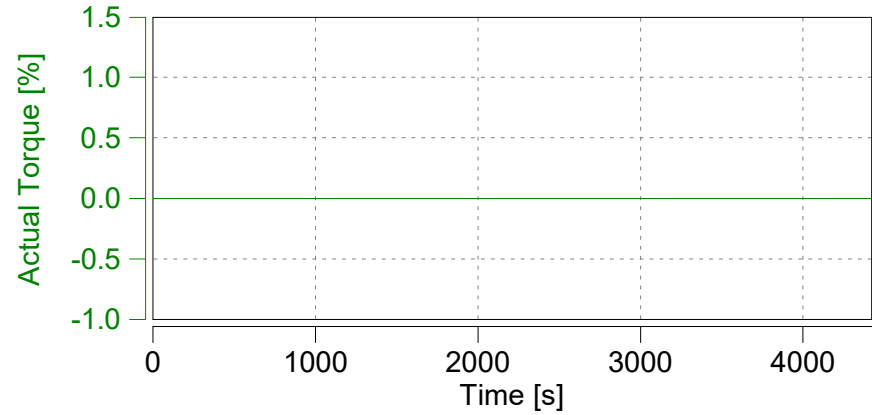
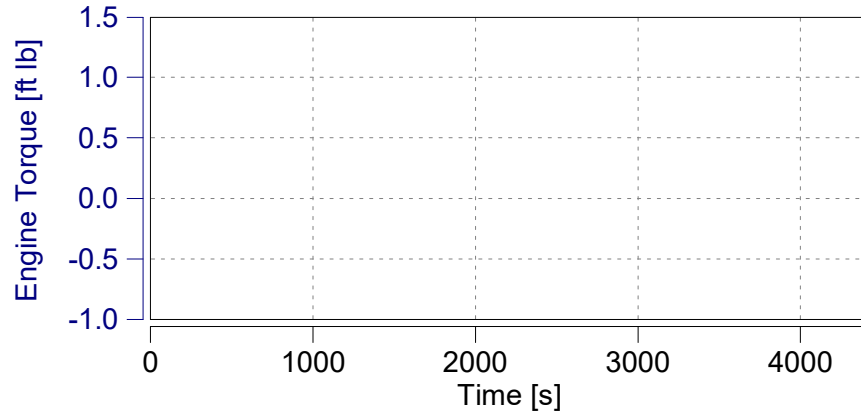


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (3)

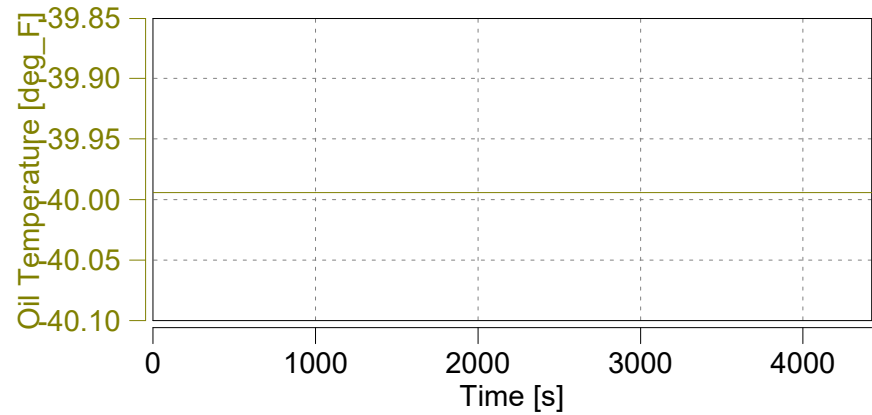
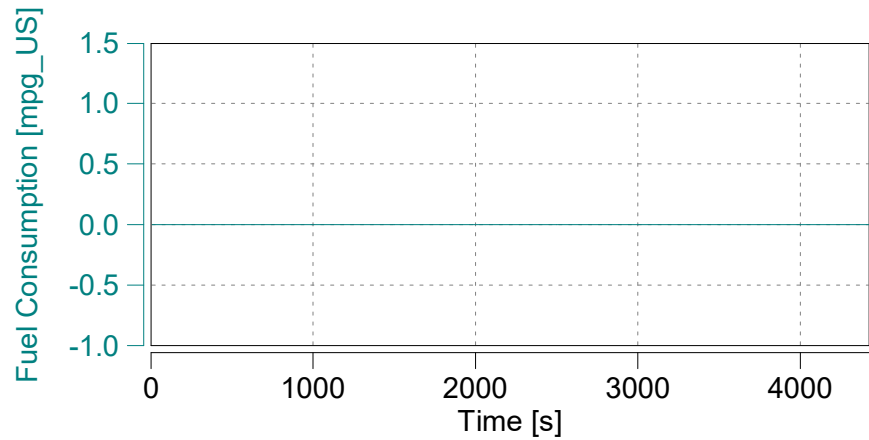
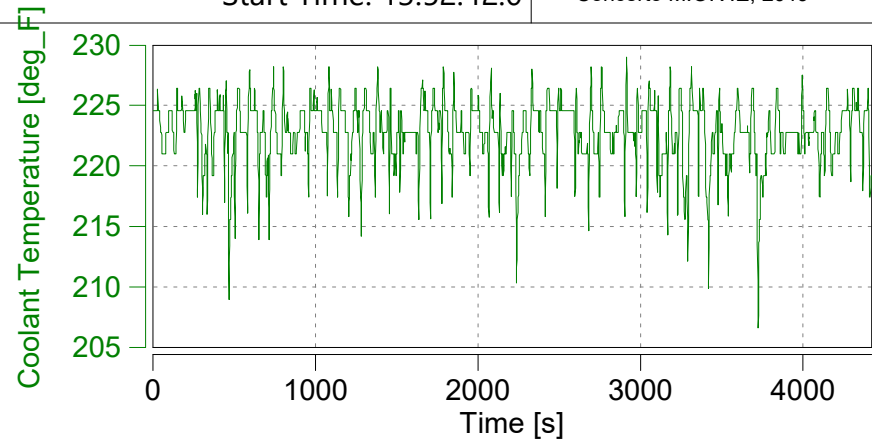
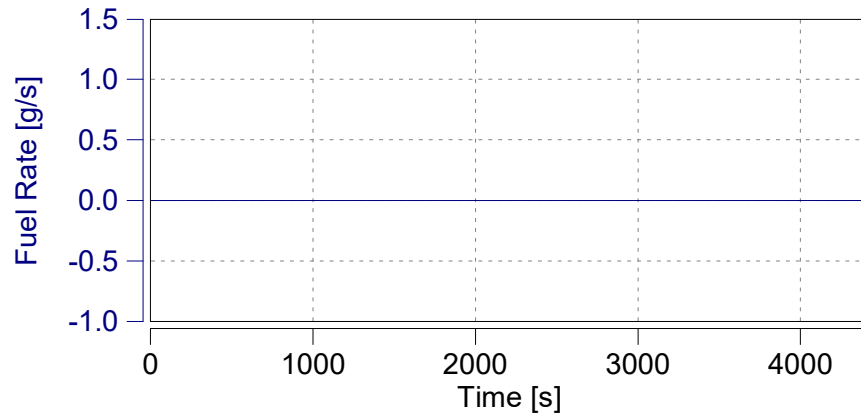
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

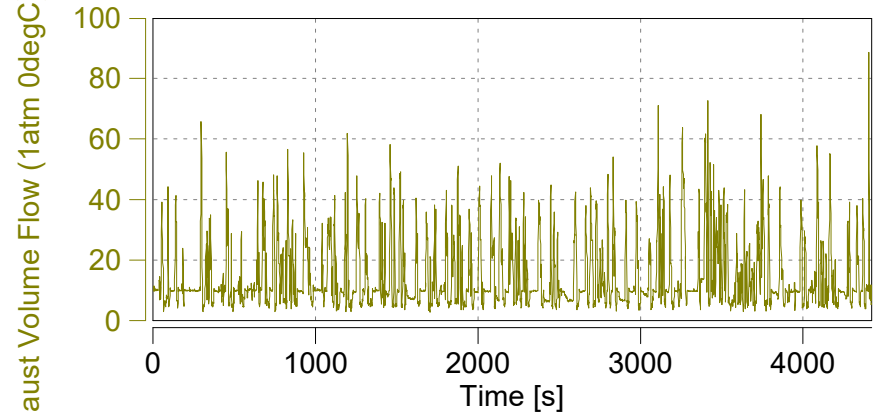
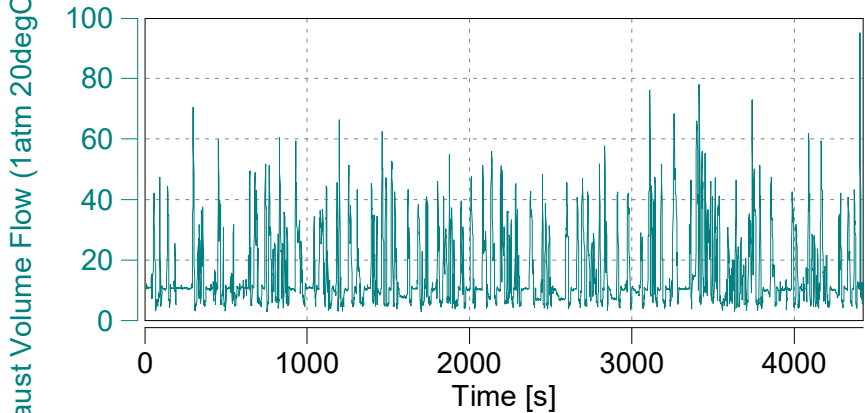
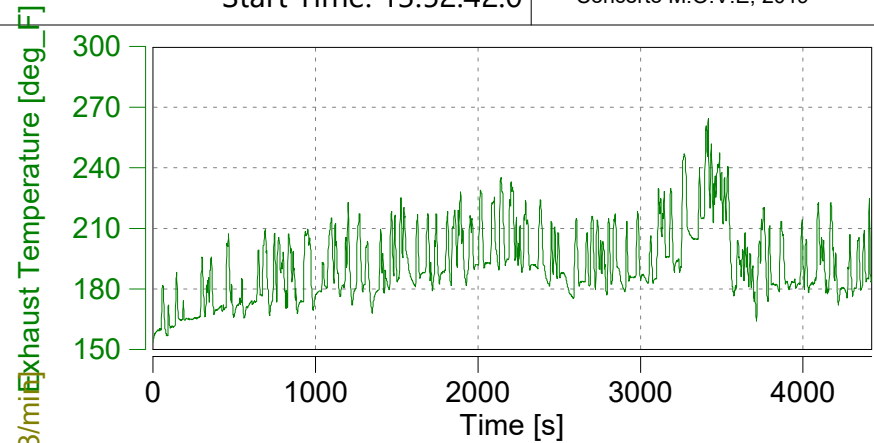
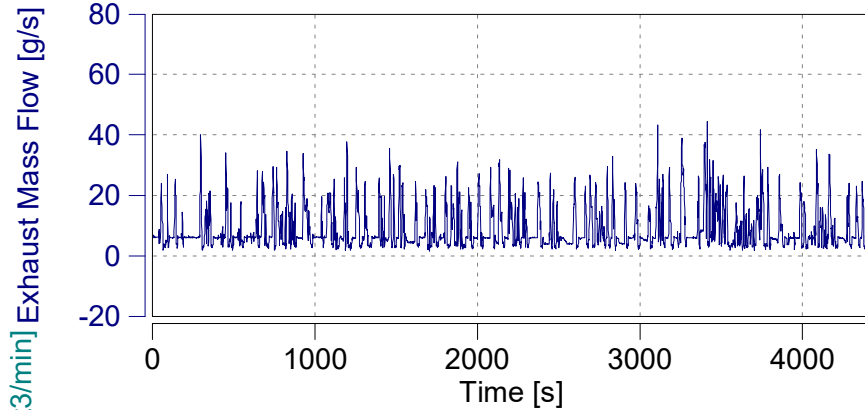
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0

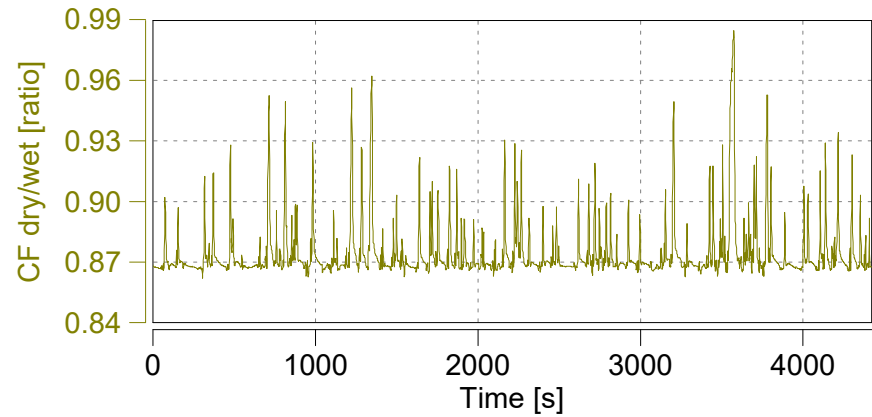
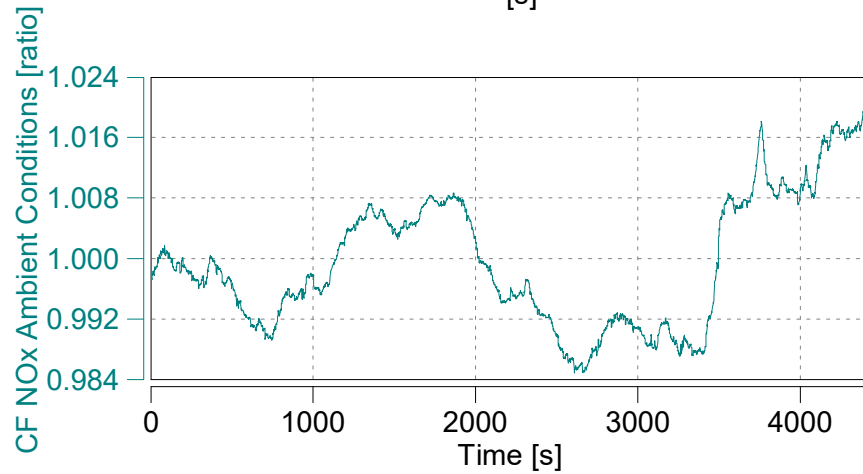
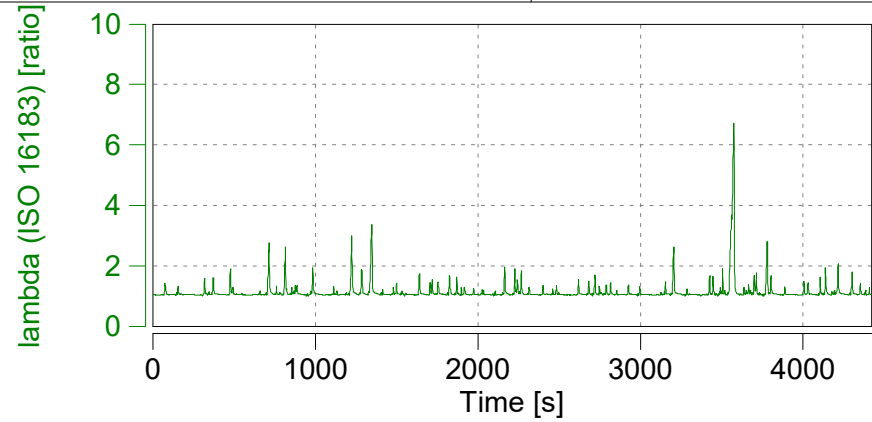
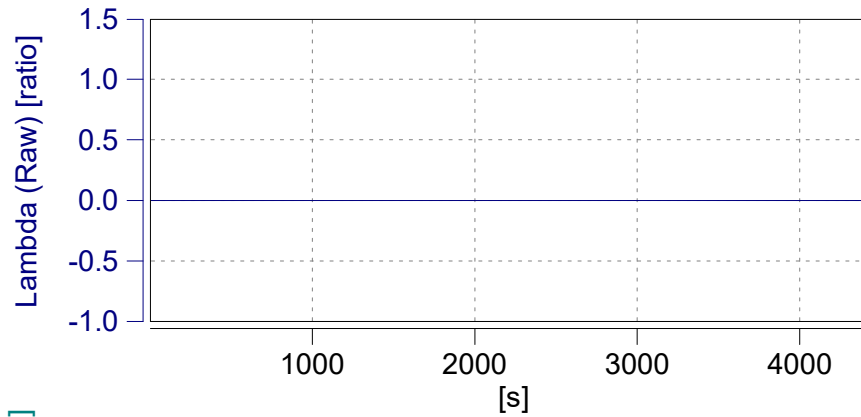


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

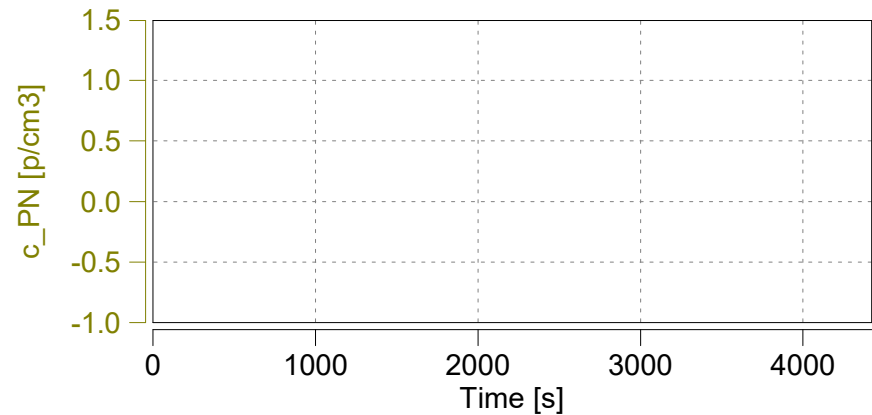
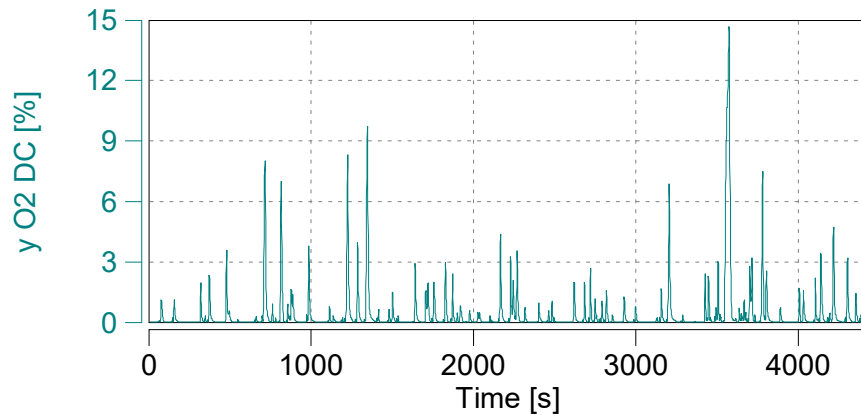
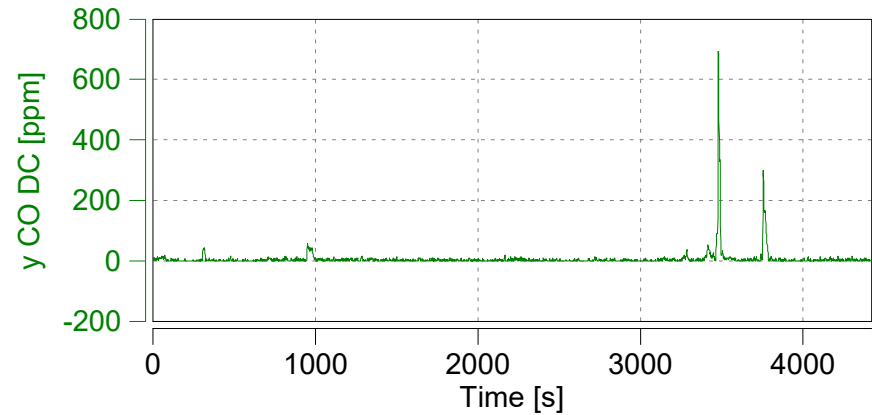
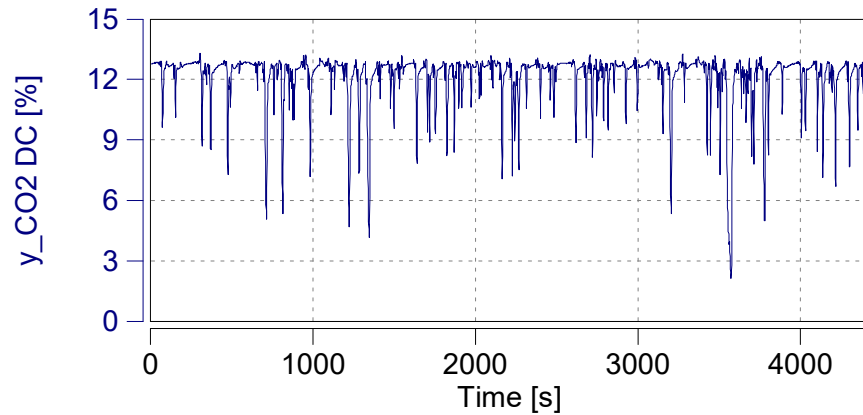
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1

Legislation:

Vehicle: A4 / 2.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

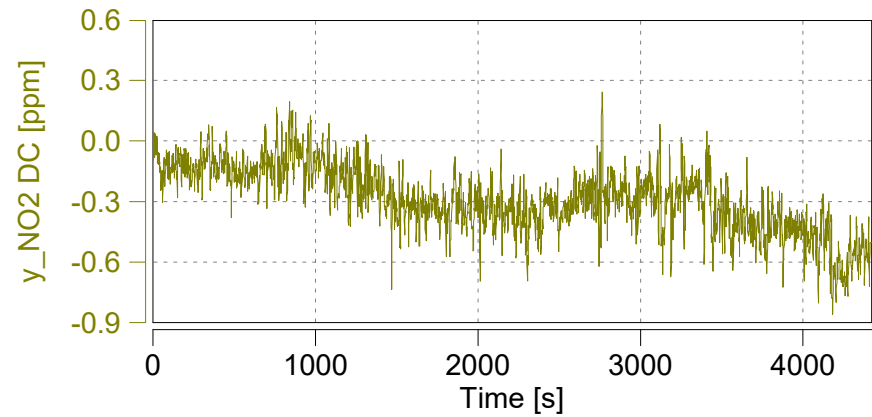
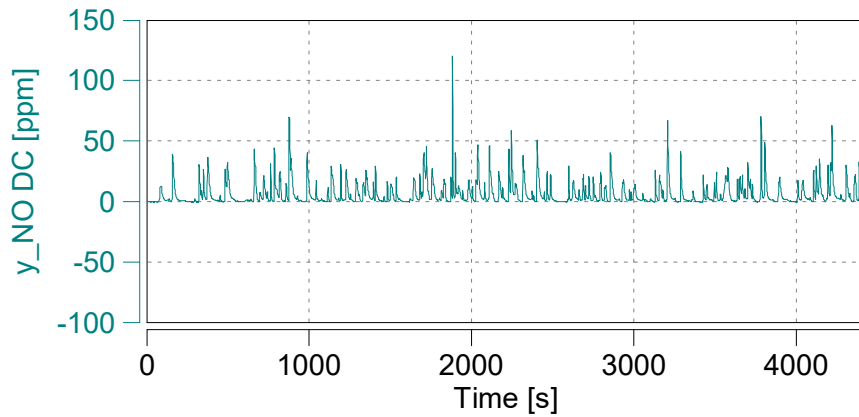
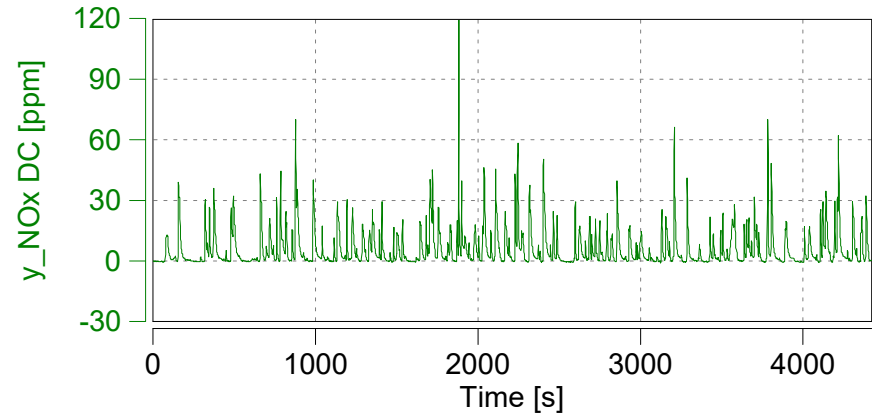
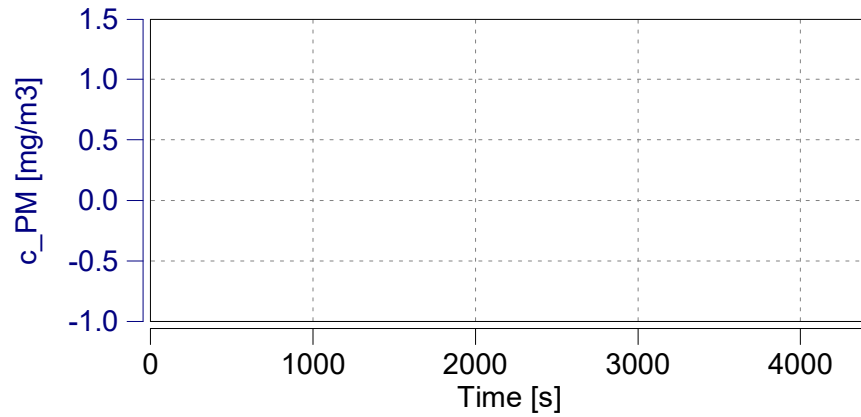
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0

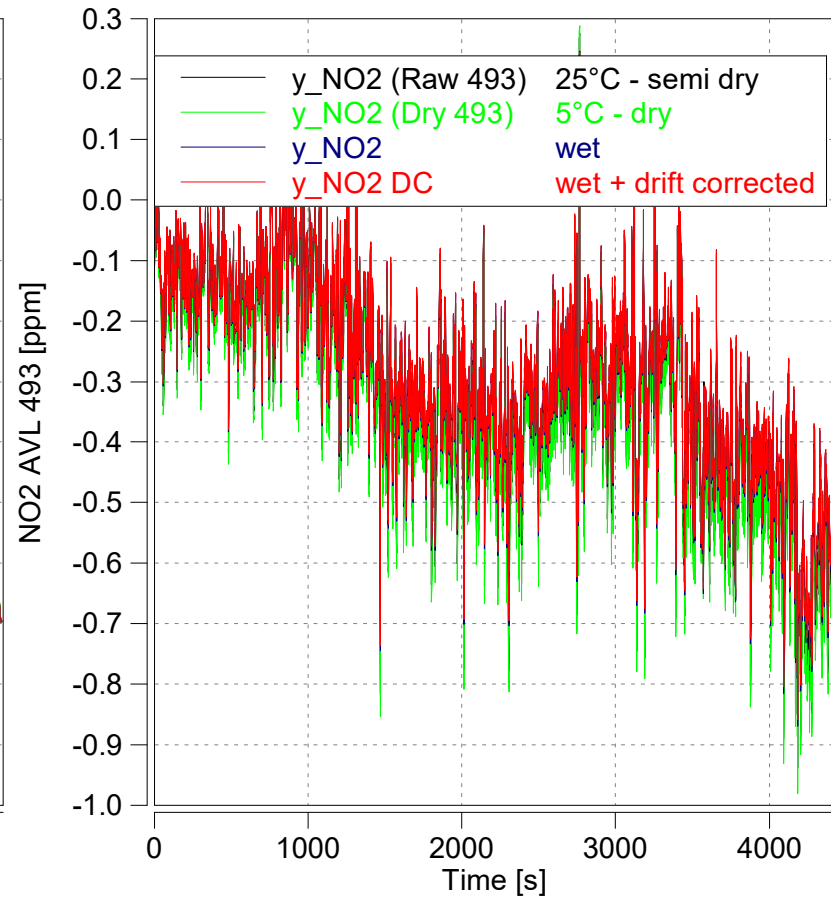
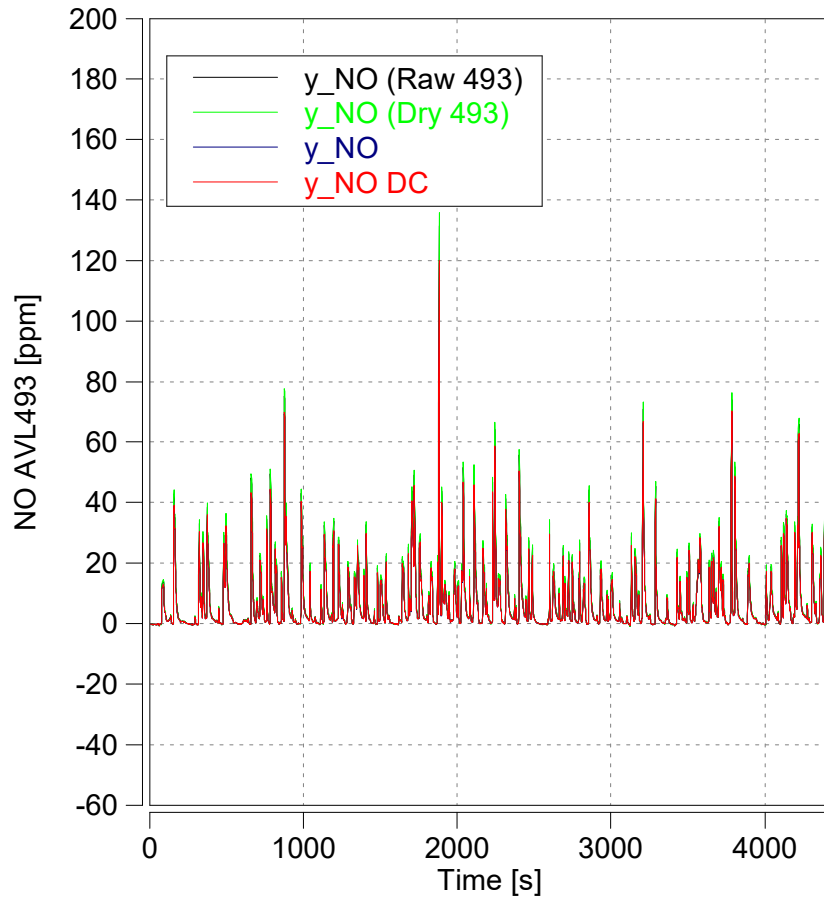


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

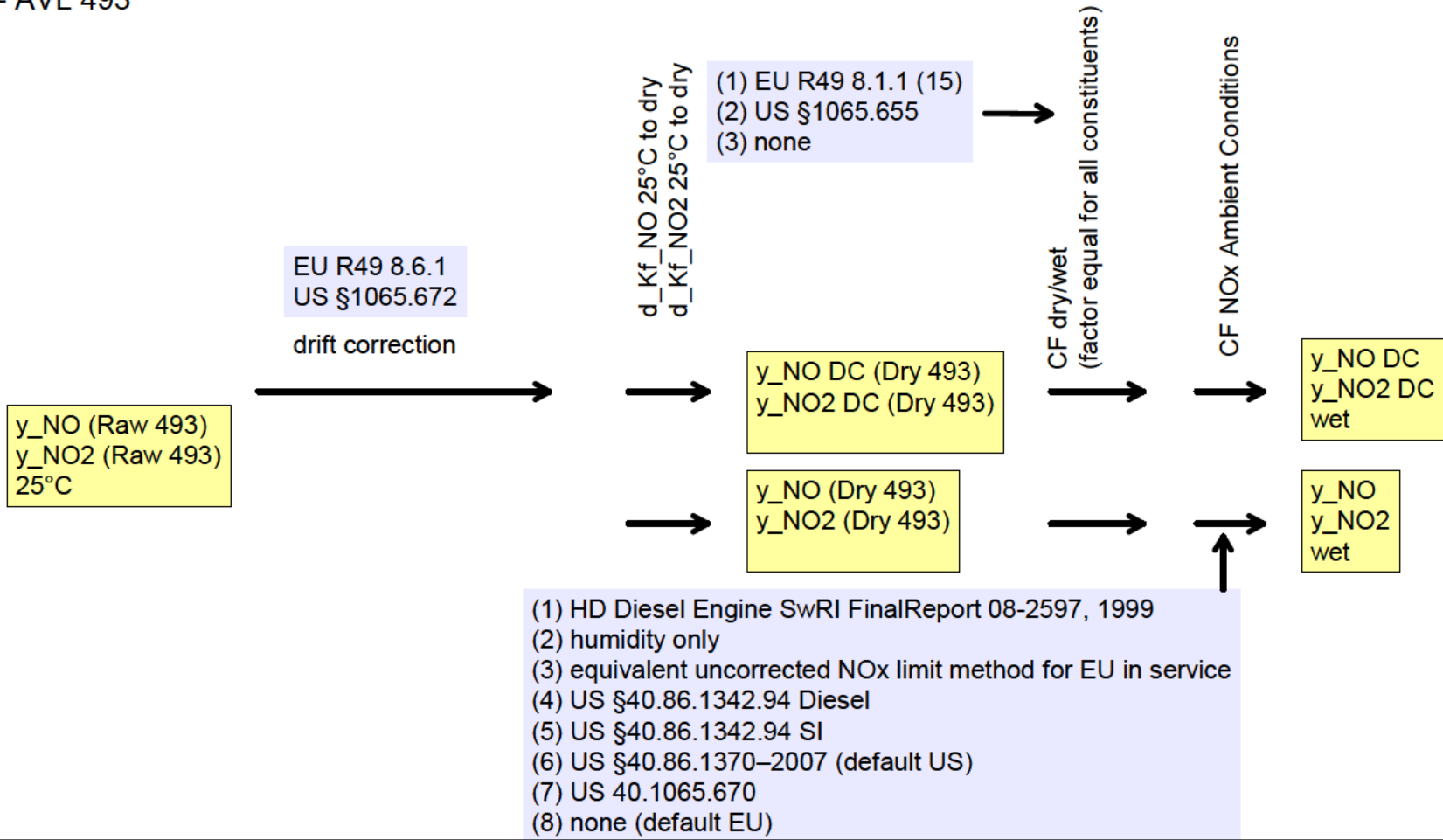


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

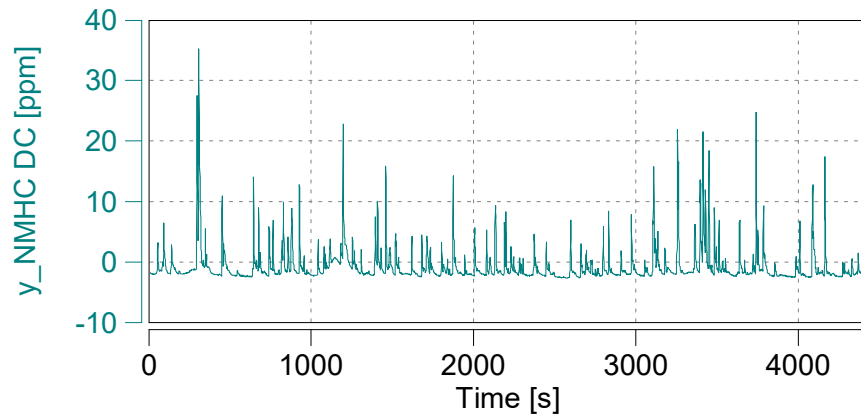
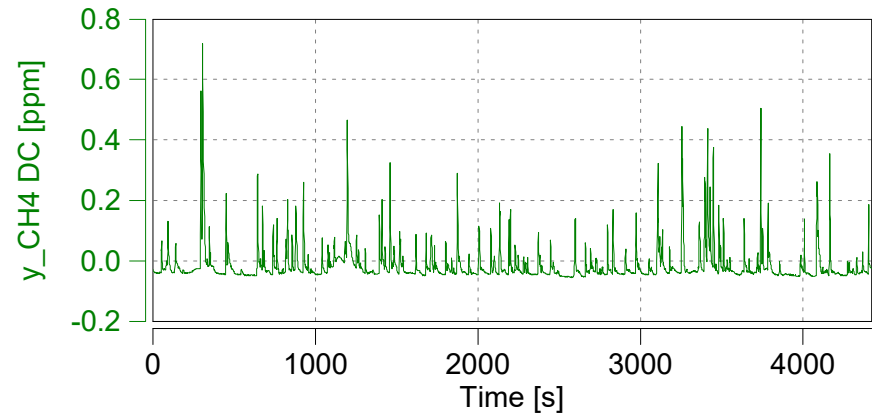
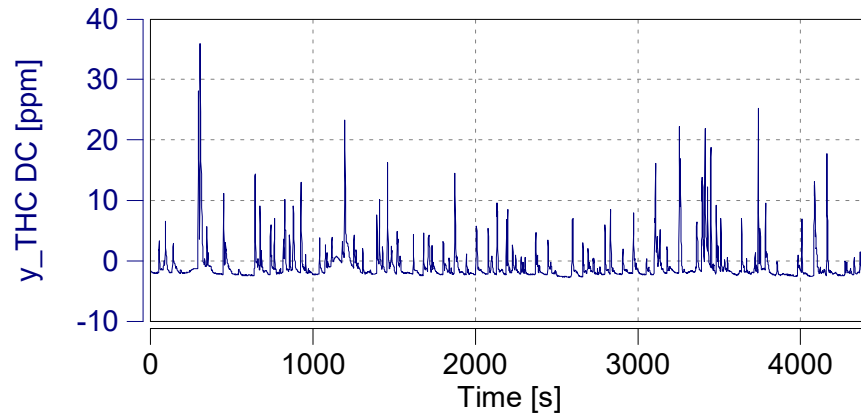
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1

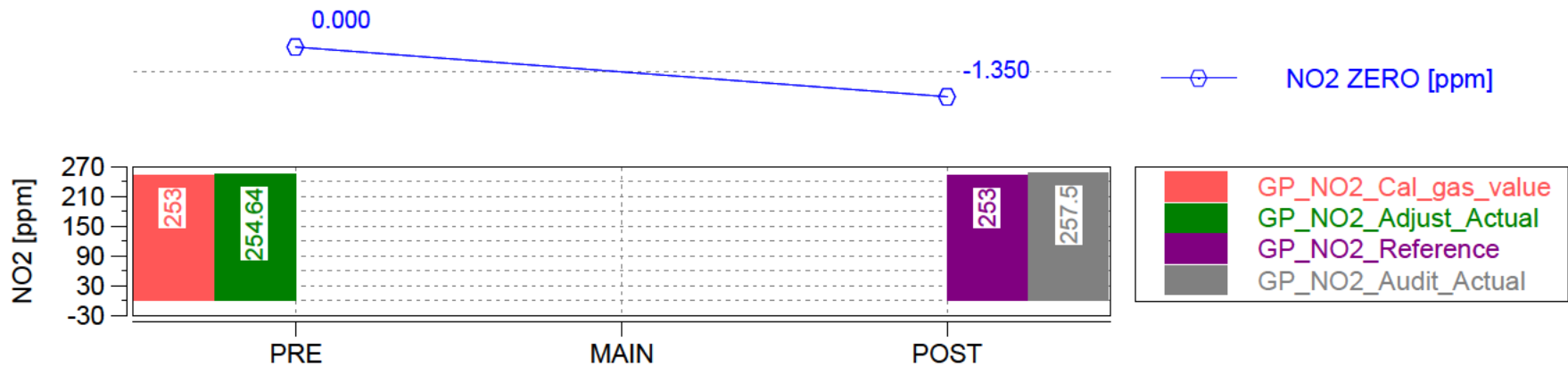
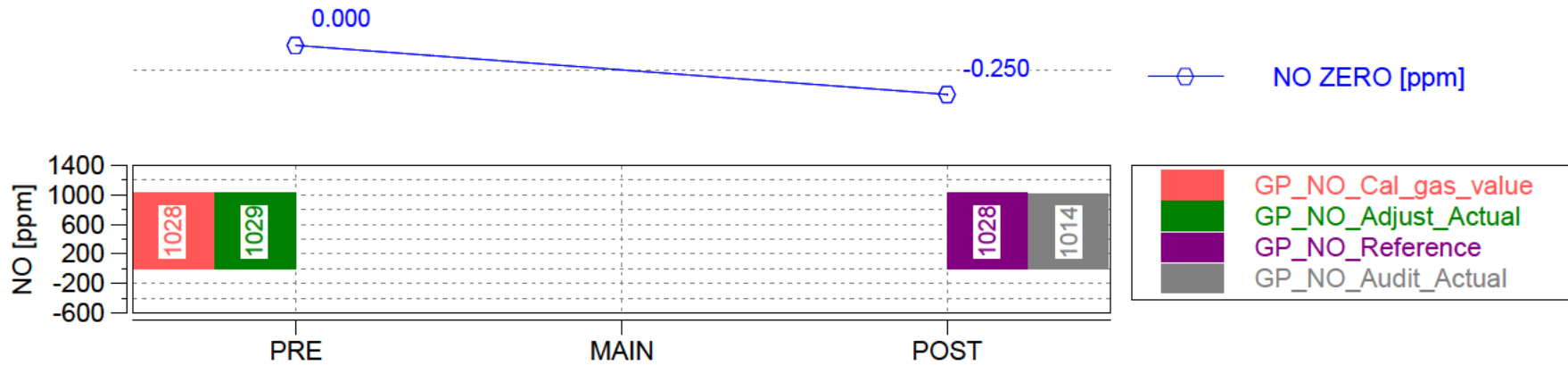
Legislation:

Vehicle: A4 / 2.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: CO/CO2 Zero - Span

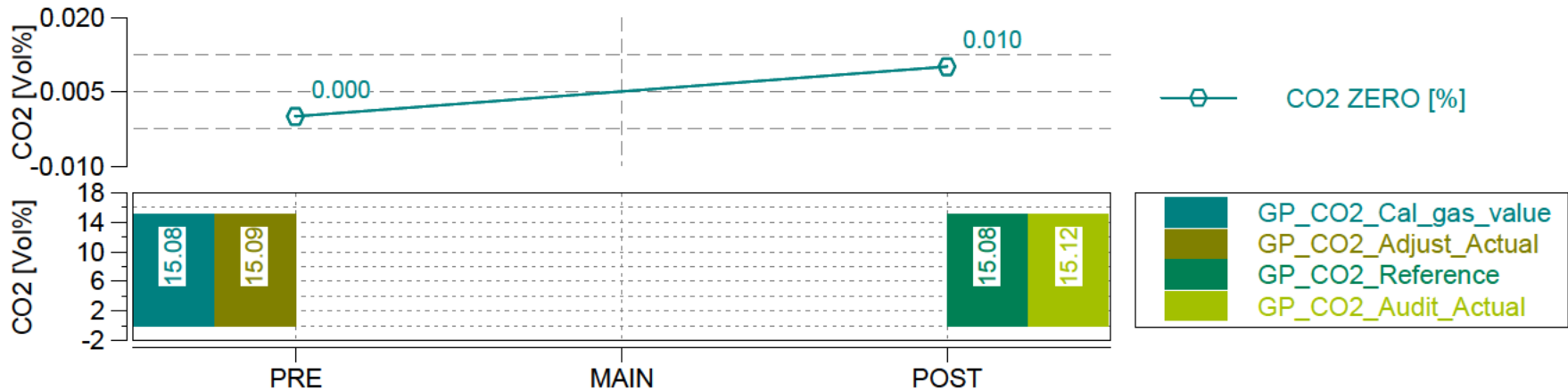
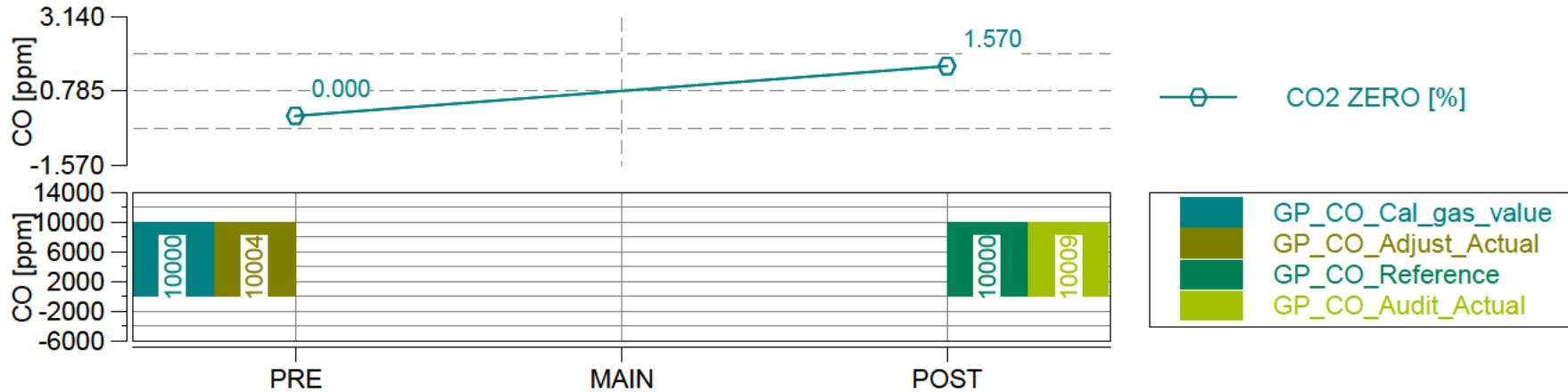
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: THC/CH4 Zero - Span

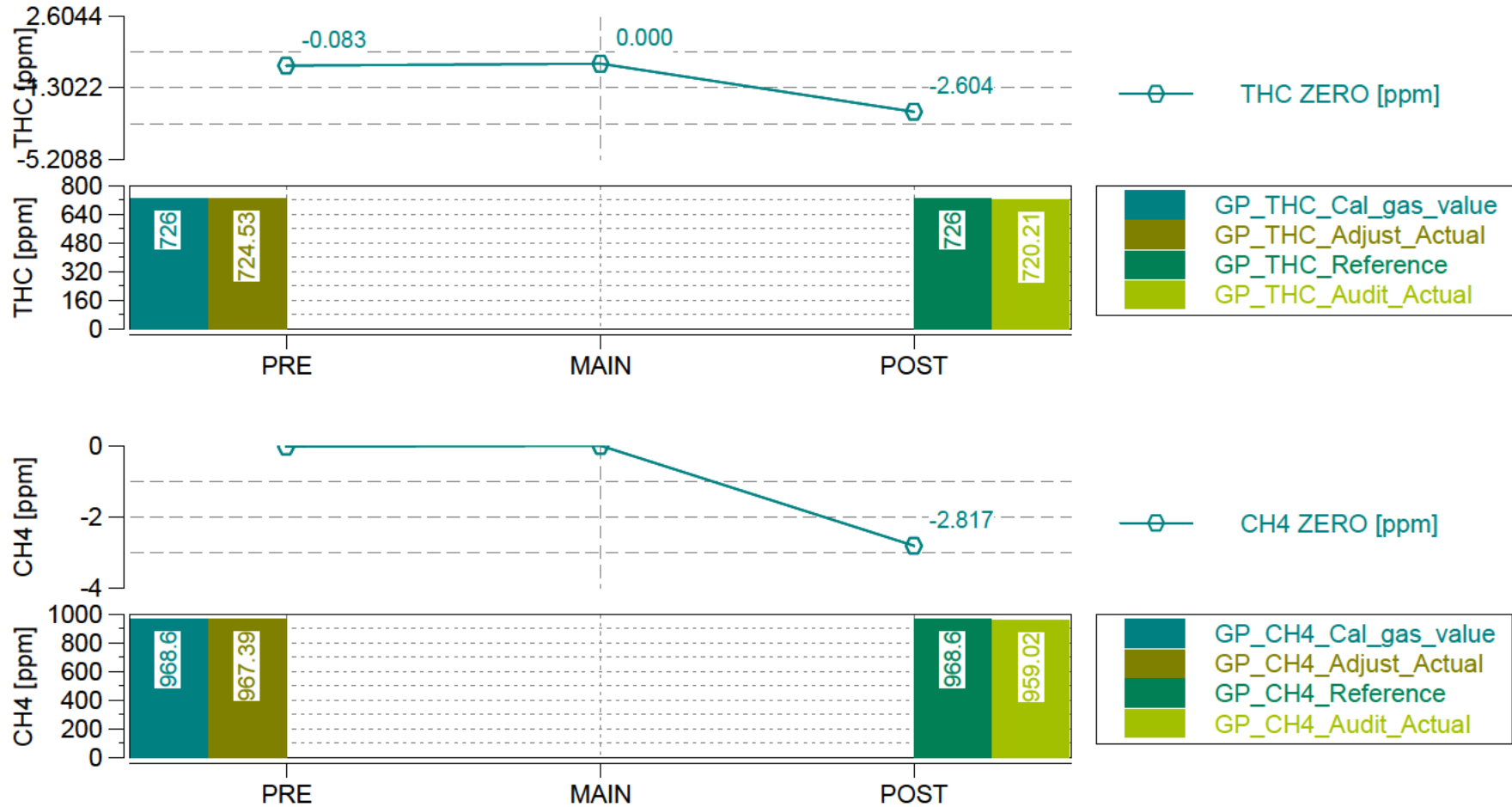
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 08/29/2019
Start Time: 13:52:42.0



Trip Duration	2329.00	s	ave THC	19.36164	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2329.00	s	ave NMHC	18.97441	ppm	BS CO	n/a	g/hphr
Trip Distance	38.33	mi	ave CH4	0.38723	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	38.33	mi	ave CO	99.51814	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.45566	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	4.78708	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.27	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.23	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	33.16	mpg_US	tot THC	0.72340	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	33.56	mpg_US	tot NMHC	0.66915	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.01603	g	DS CO2	256.72326	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	6.34163	g	DS CO	0.16546	g/mi
Trip Fuel Economy EU GGE (ac)	33.16	mpg_US	tot CO2	9839.70494	g	DS THC	0.01887	g/mi
Trip Fuel Economy US GGE (ac)	33.56	mpg_US	tot NO (d)	0.30849	g	DS NMHC	0.01746	g/mi
Trip Av. Eng. Speed	1550.03	rpm	tot NO2	0.01064	g	DS CH4	0.00042	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.31913	g	DS NO (d)	0.00805	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00028	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00833	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	50.88	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	80.74	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	53.96	%	Trip Av. Veh. Speed	59.24475	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	21.45	m	Trip Velocity Zero	2.06097	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	4.73477	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	95.26523	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0



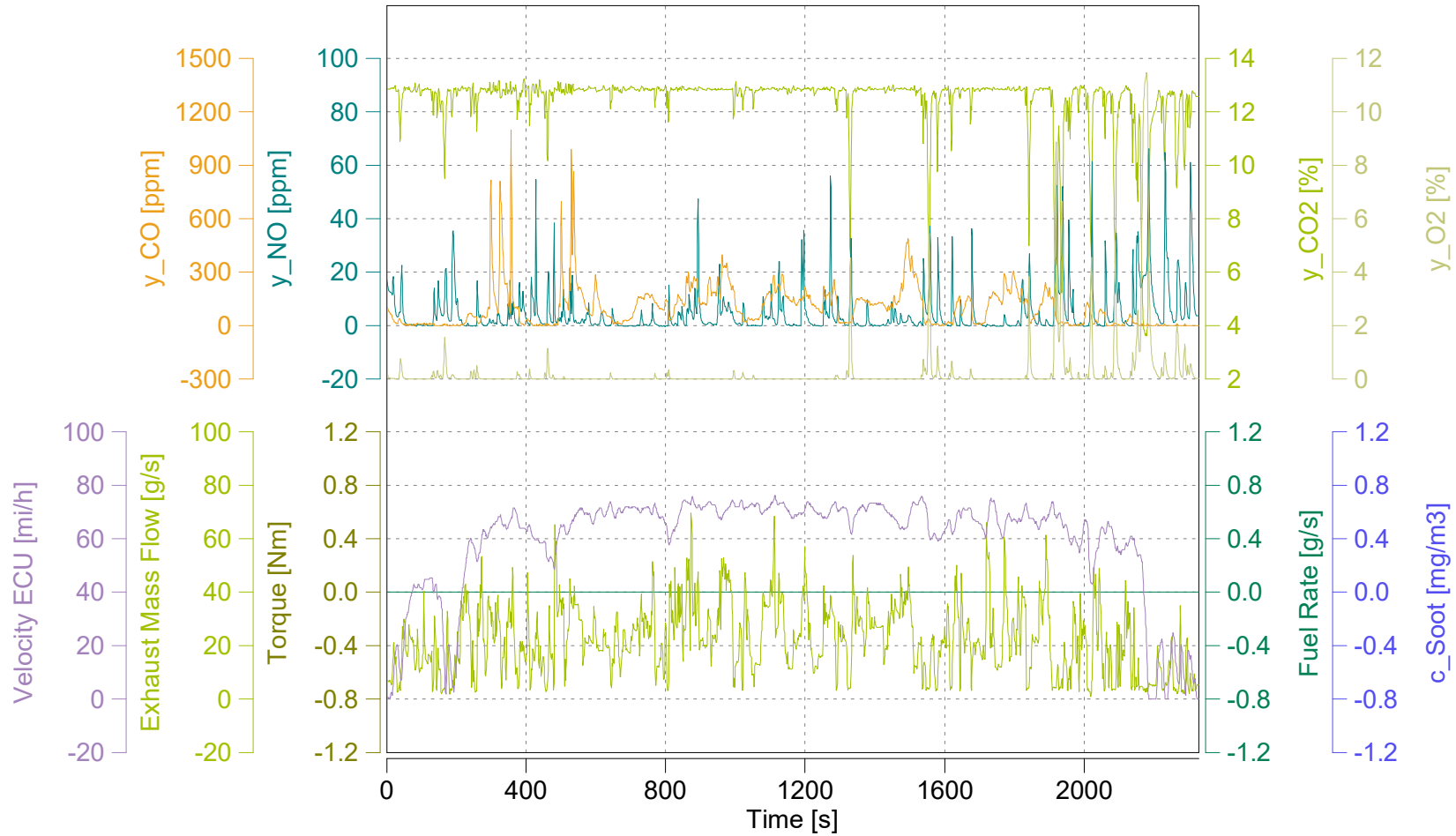
Concerto M.O.V.E, 2019

Trip Duration	2329.00	s	ave THC DC	19.49937	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2329.00	s	ave NMHC DC	19.10938	ppm	BS CO DC	n/a	g/hphr
Trip Distance	38.33	mi	ave CH4 DC	0.38999	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	38.33	mi	ave CO DC	99.45697	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	12.43504	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	4.81376	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.27	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.23	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.72805	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	33.16	mpg_US	tot NMHC DC	0.67345	g			
Trip Fuel Economy US (ac)	33.56	mpg_US	tot CH4 DC	0.01614	g	DS CO2 DC	256.29836	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	6.33774	g	DS CO DC	0.16536	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	9823.41943	g	DS THC DC	0.01900	g/mi
Trip Fuel Economy EU GGE (ac)	33.16	mpg_US	tot NO DC (d)	0.31033	g	DS NMHC DC	0.01757	g/mi
Trip Fuel Economy US GGE (ac)	33.56	mpg_US	tot NO2 DC	0.01051	g	DS CH4 DC	0.00042	g/mi
			tot NOx DC	0.32084	g	DS NO DC (d)	0.00810	g/mi
Trip Av. Eng. Speed	1550.03	rpm	tot Soot	n/a	g	DS NO2 DC	0.00027	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.00837	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	50.88	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	59.24475	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	80.74	deg_F	Trip Velocity Zero	2.06097	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	53.96	%	Trip Velocity Urban	4.73477	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	21.45	m	Trip Velocity Rural	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	95.26523	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

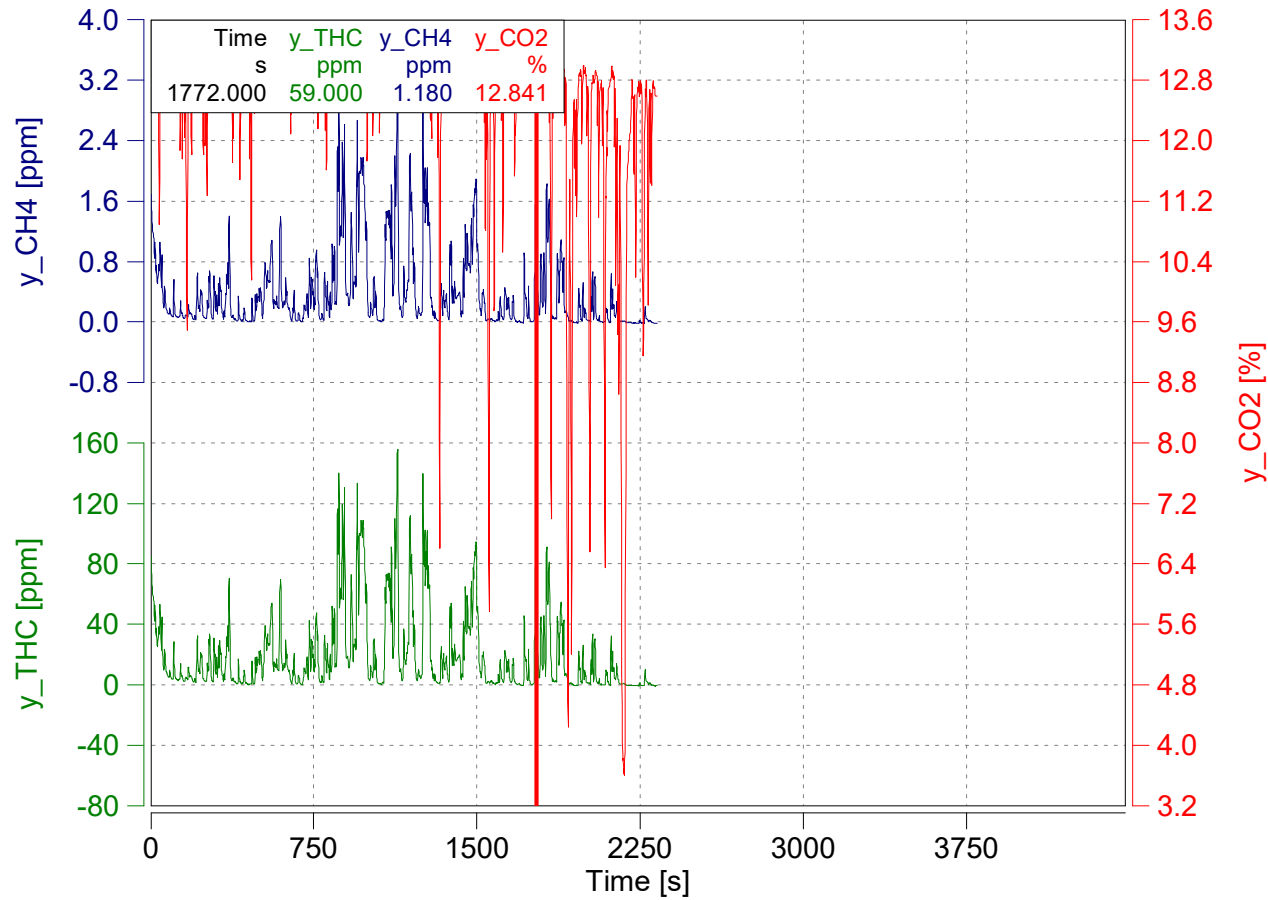
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

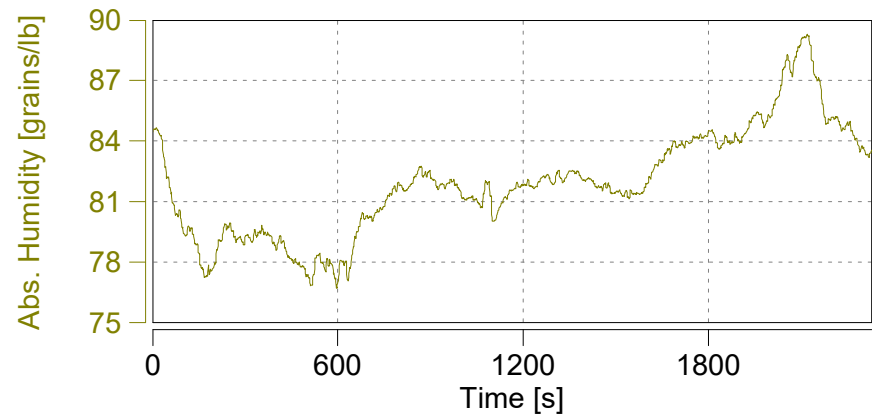
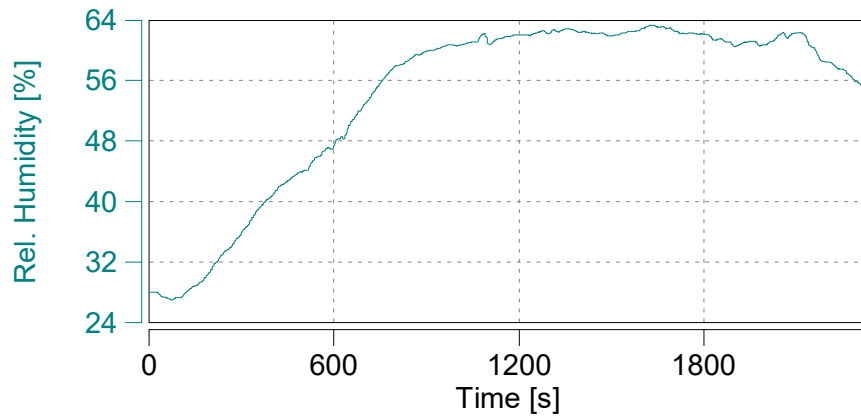
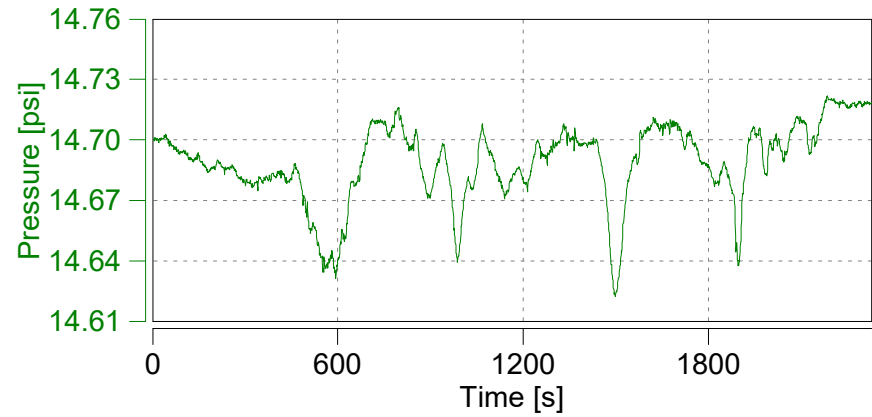
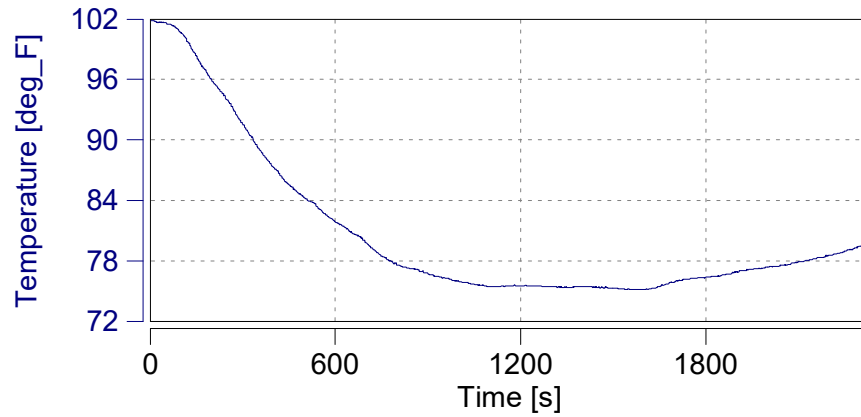
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

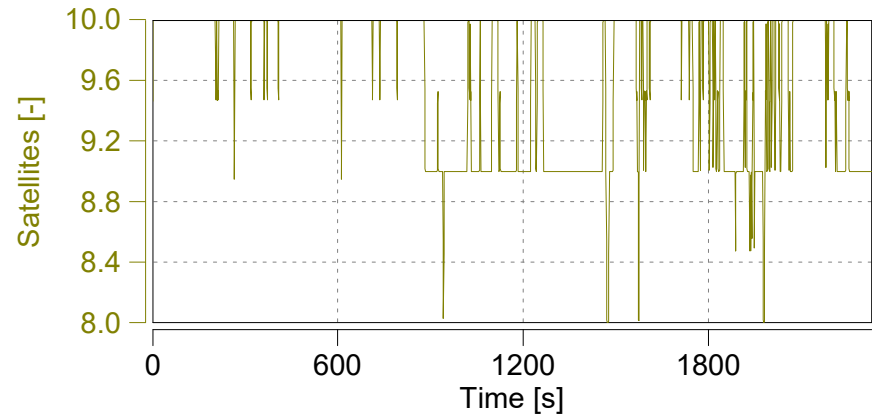
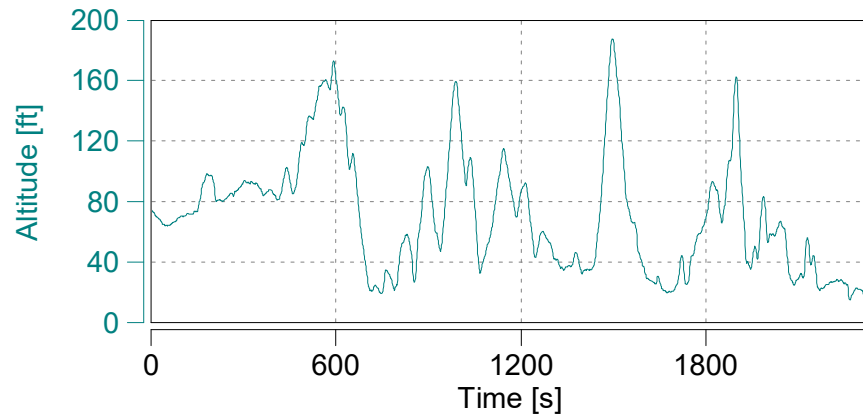
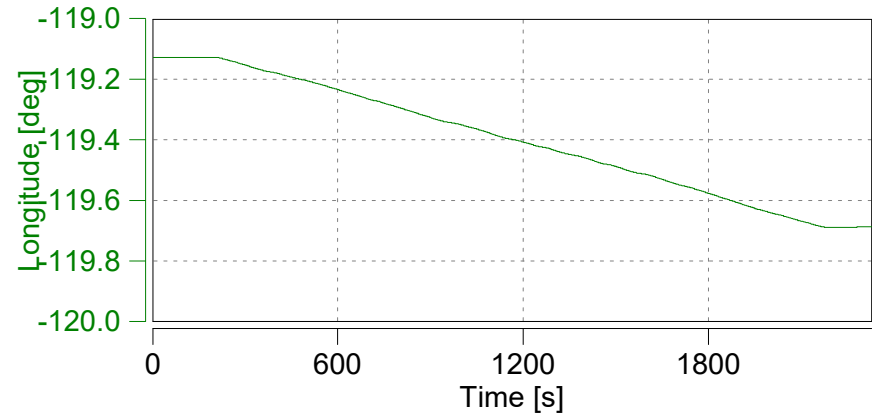
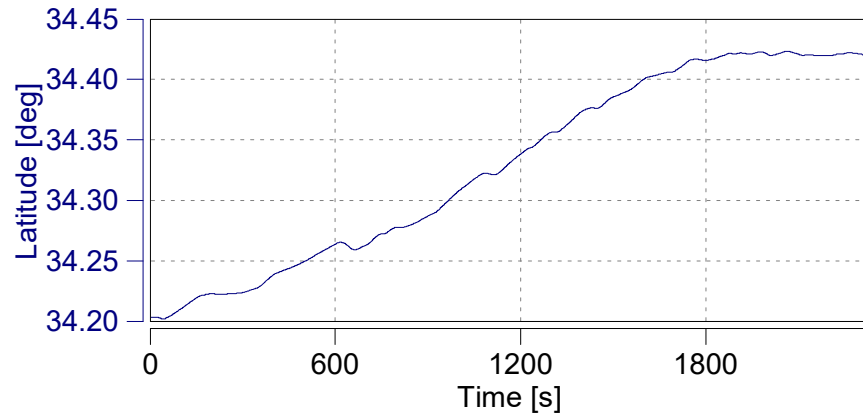
'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0

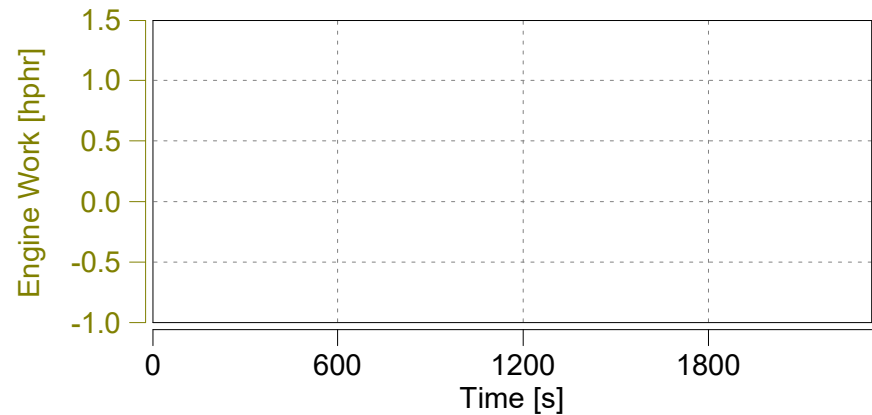
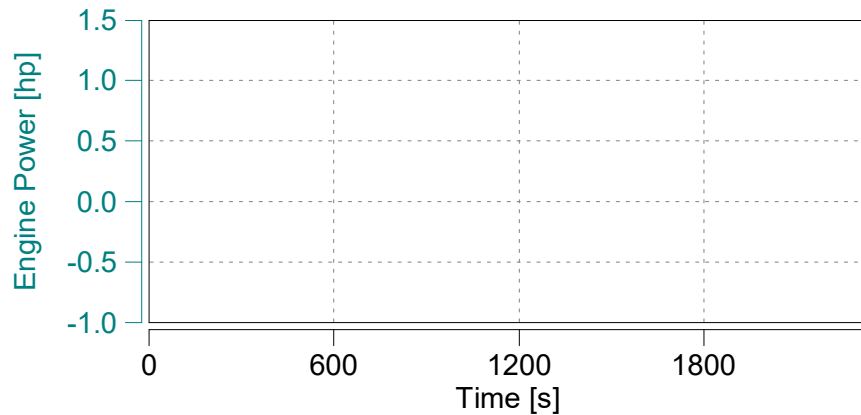
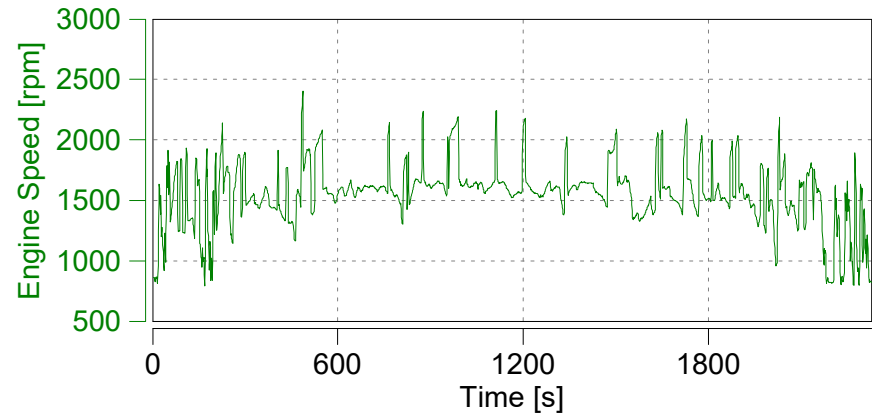
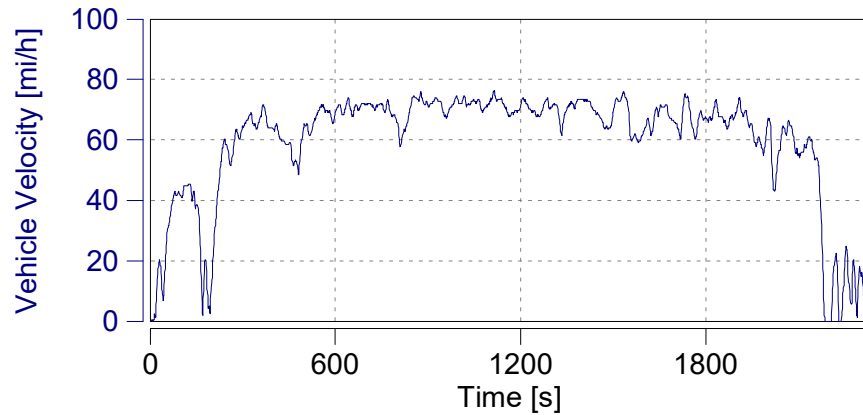


Concerto M.O.V.E., 2019



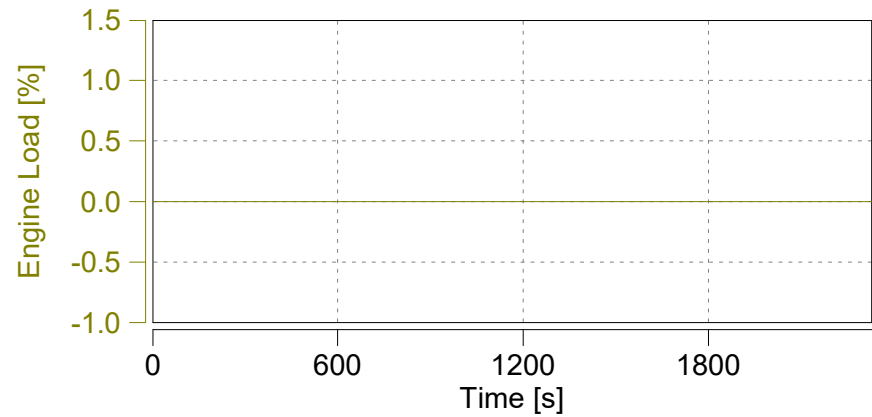
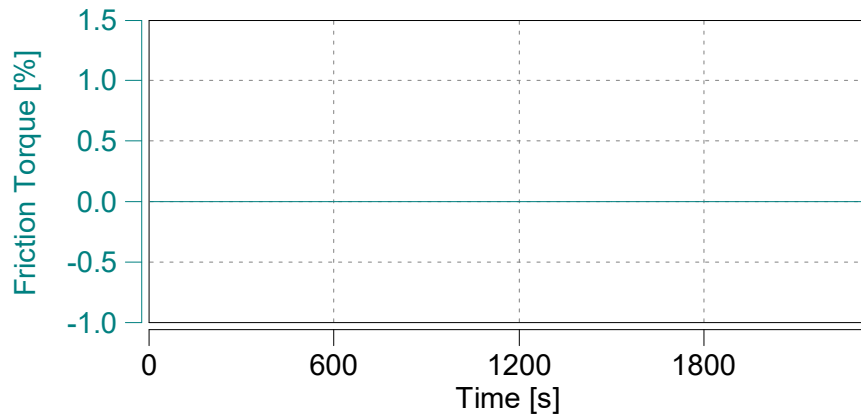
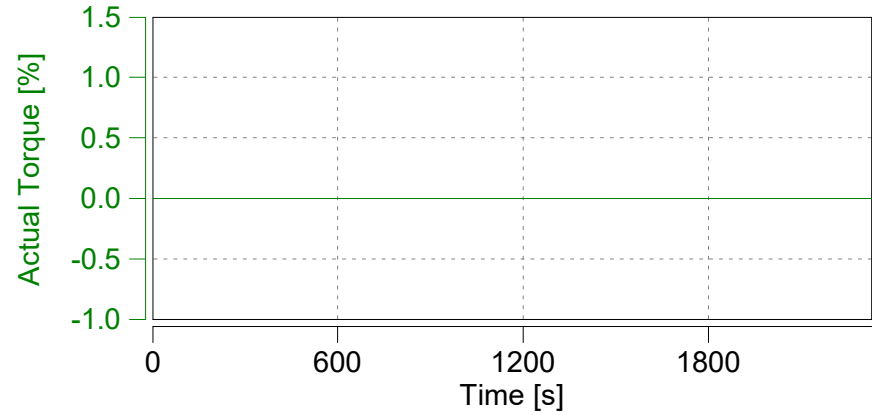
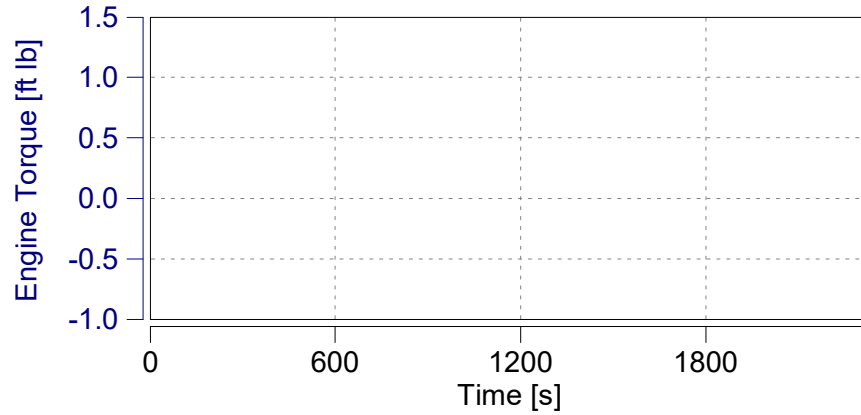
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



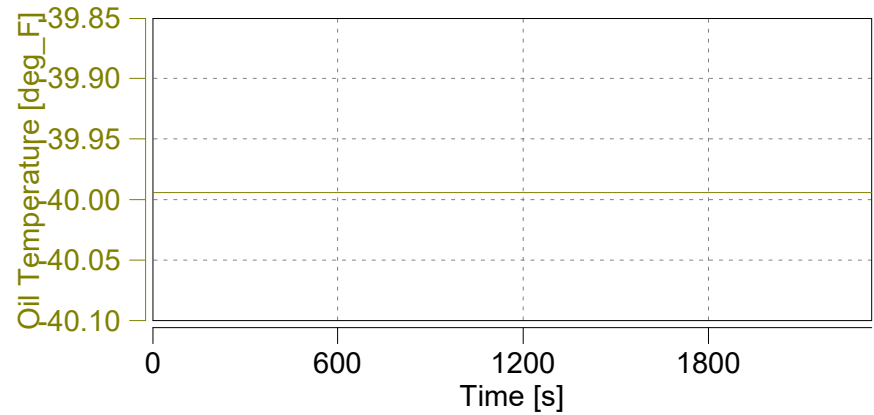
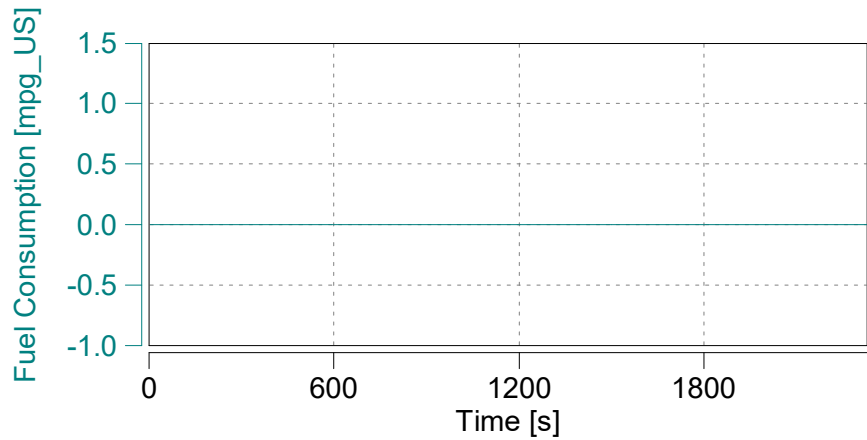
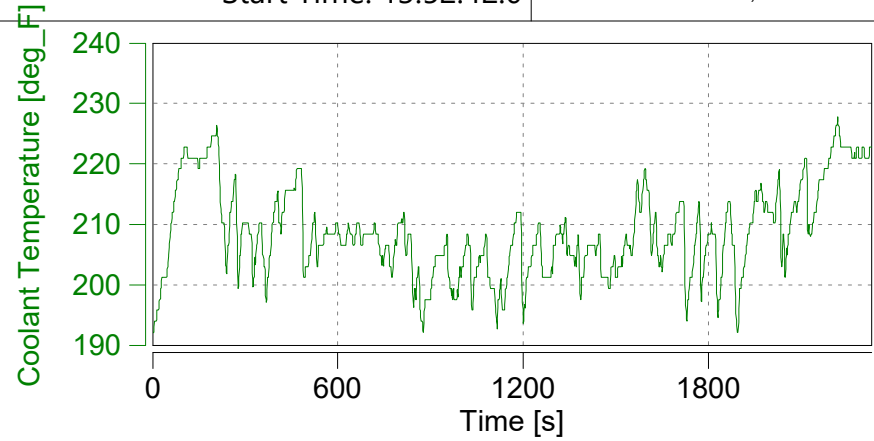
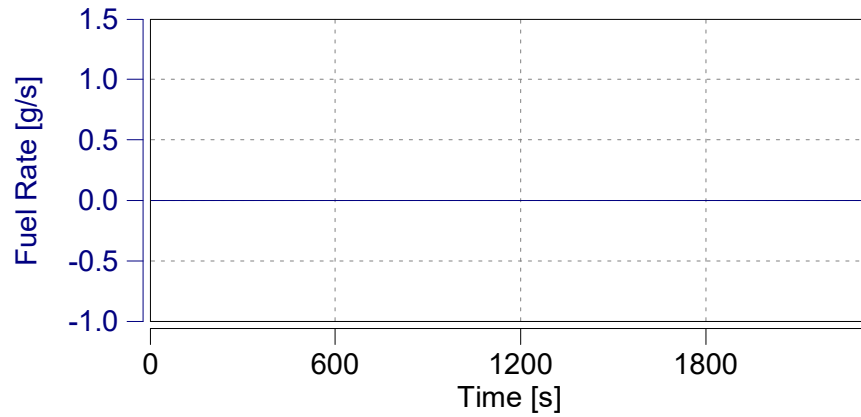
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

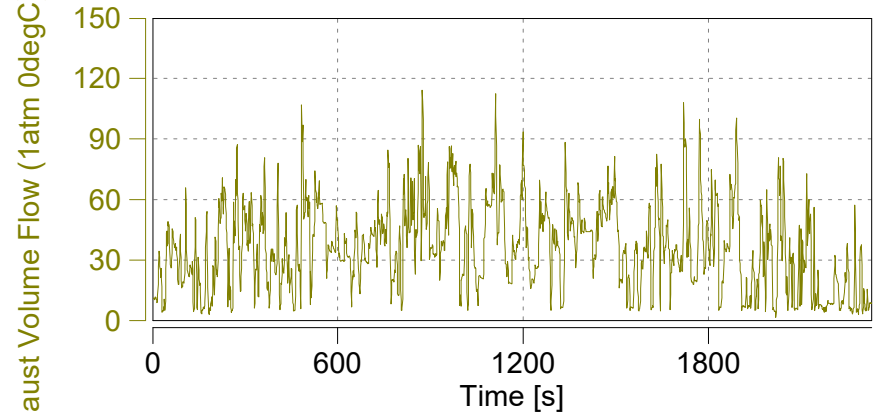
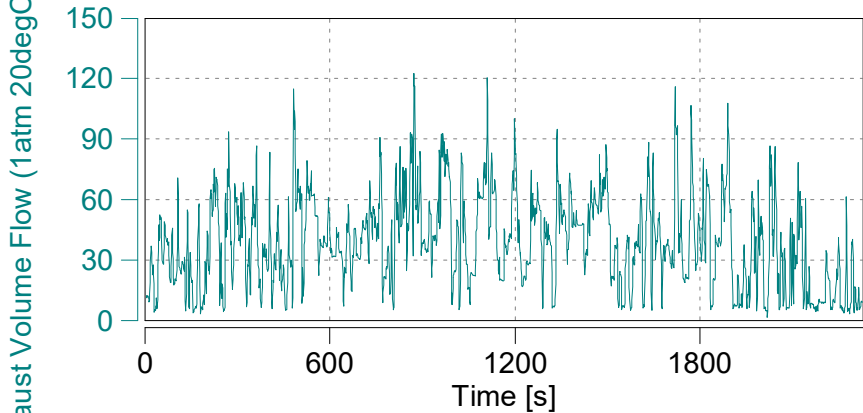
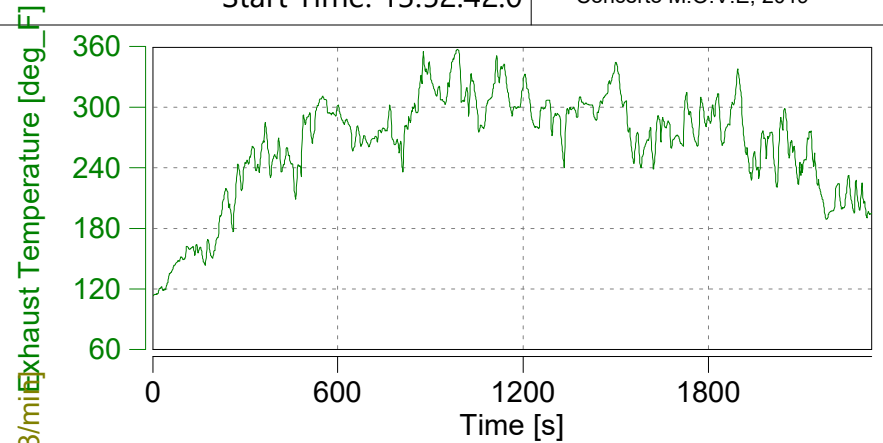
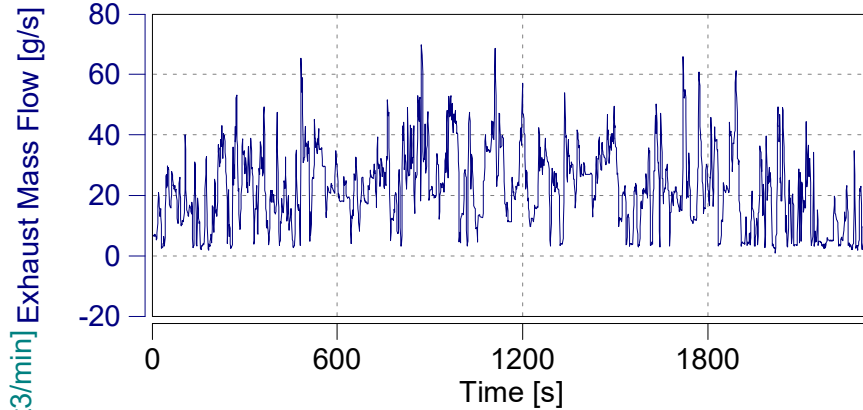
'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (2)

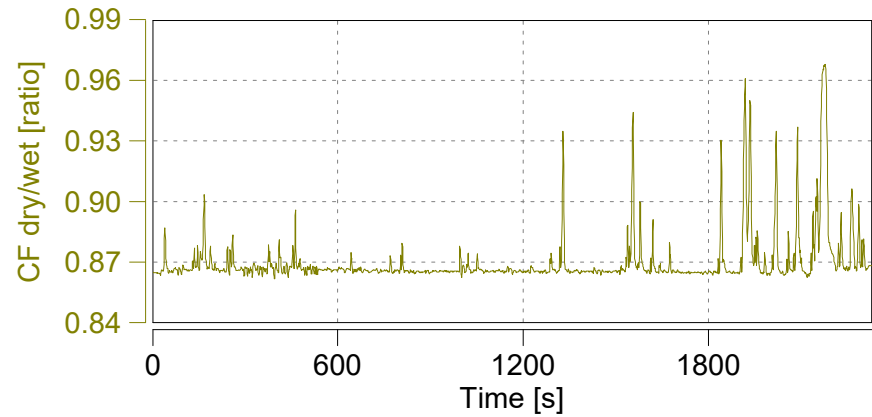
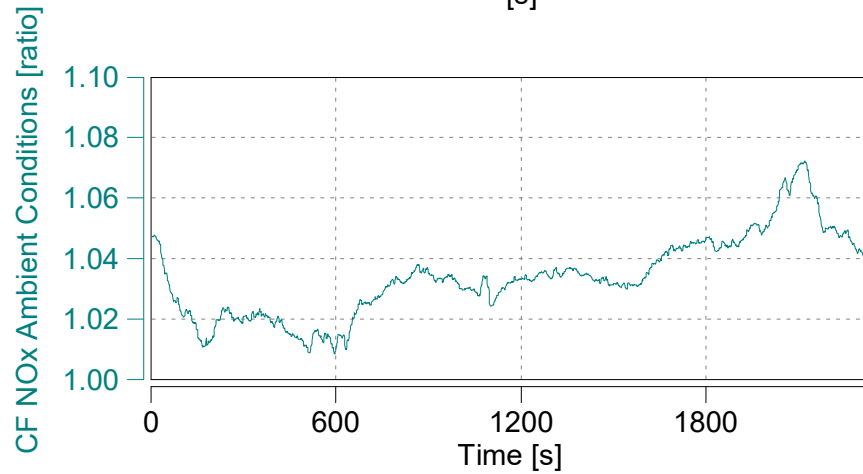
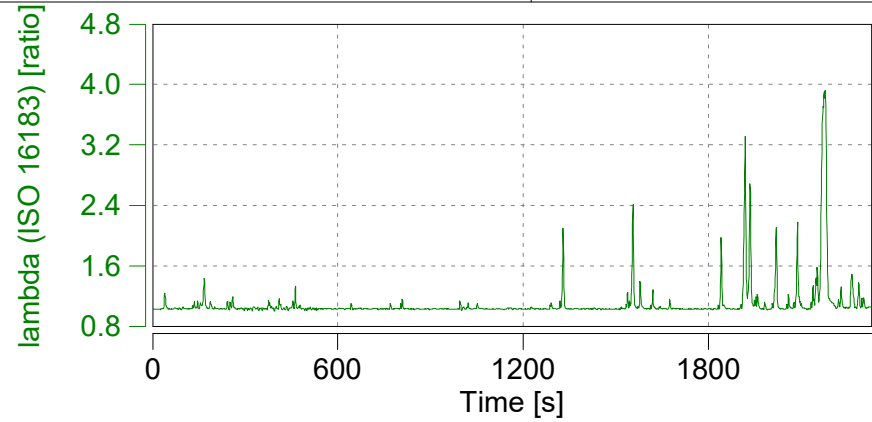
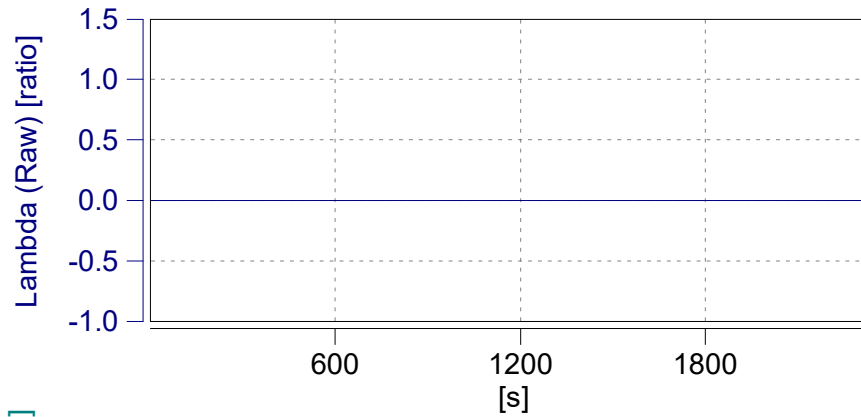
'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

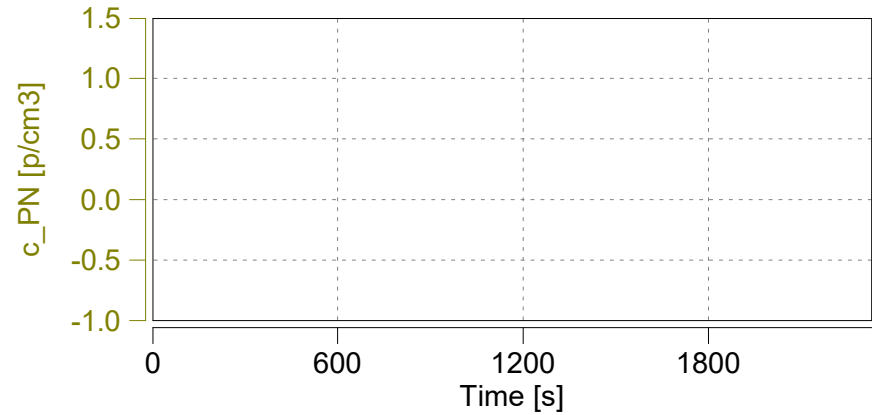
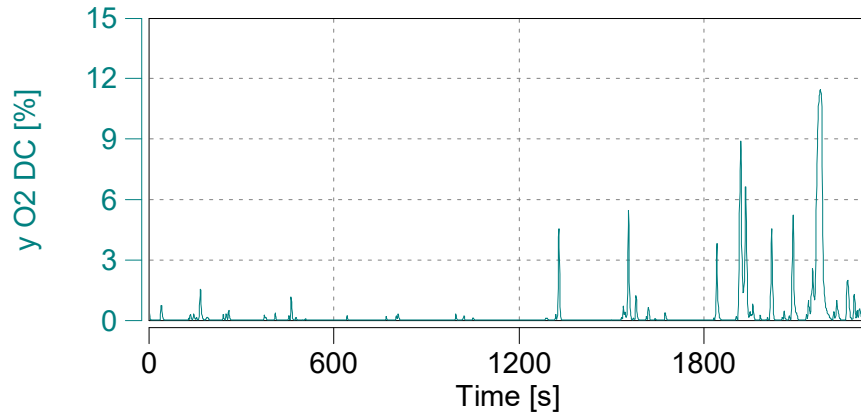
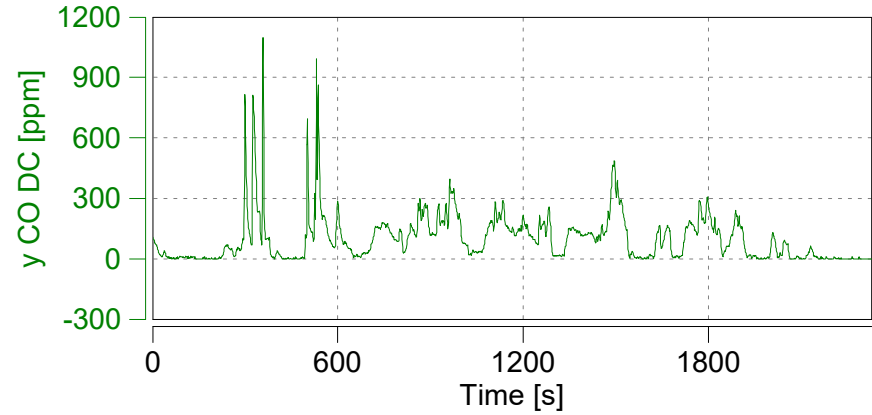
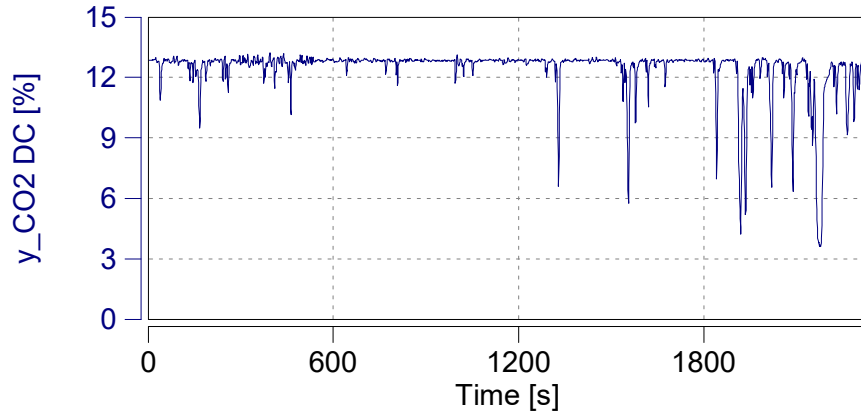
'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (2)

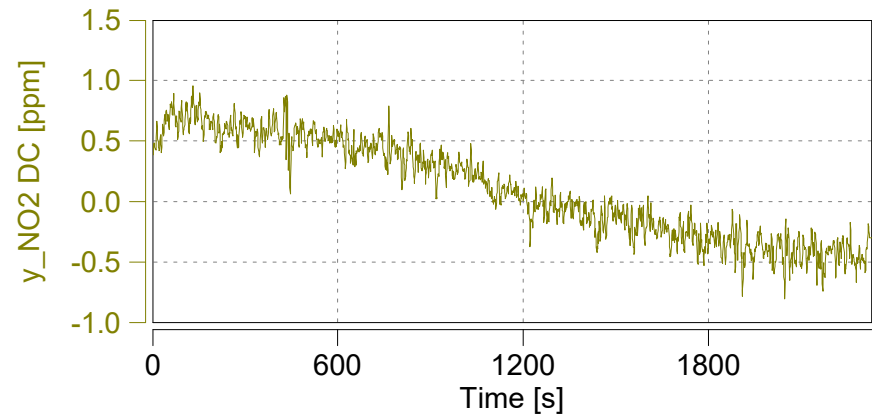
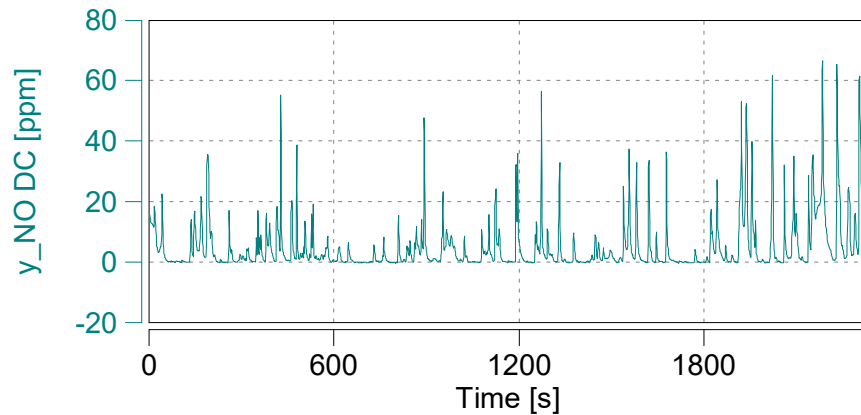
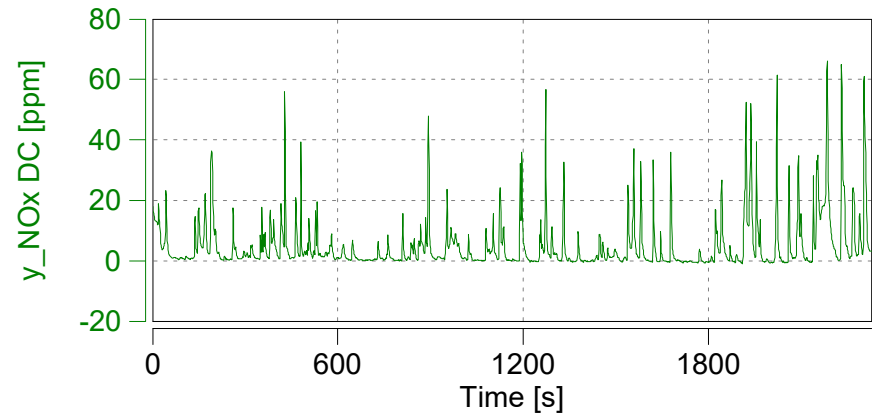
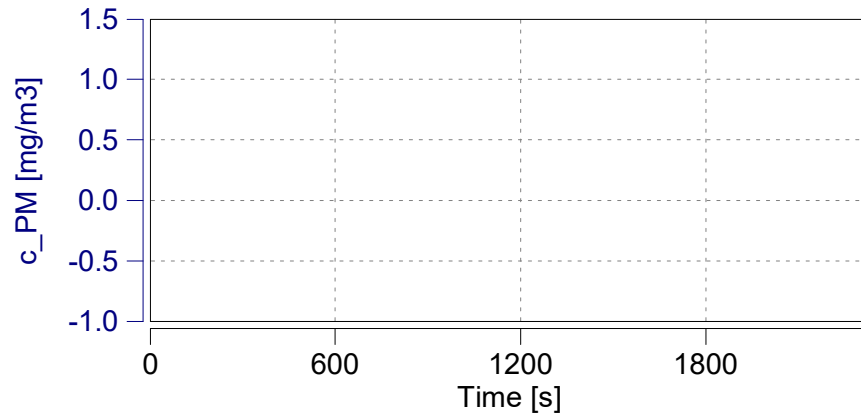
'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0

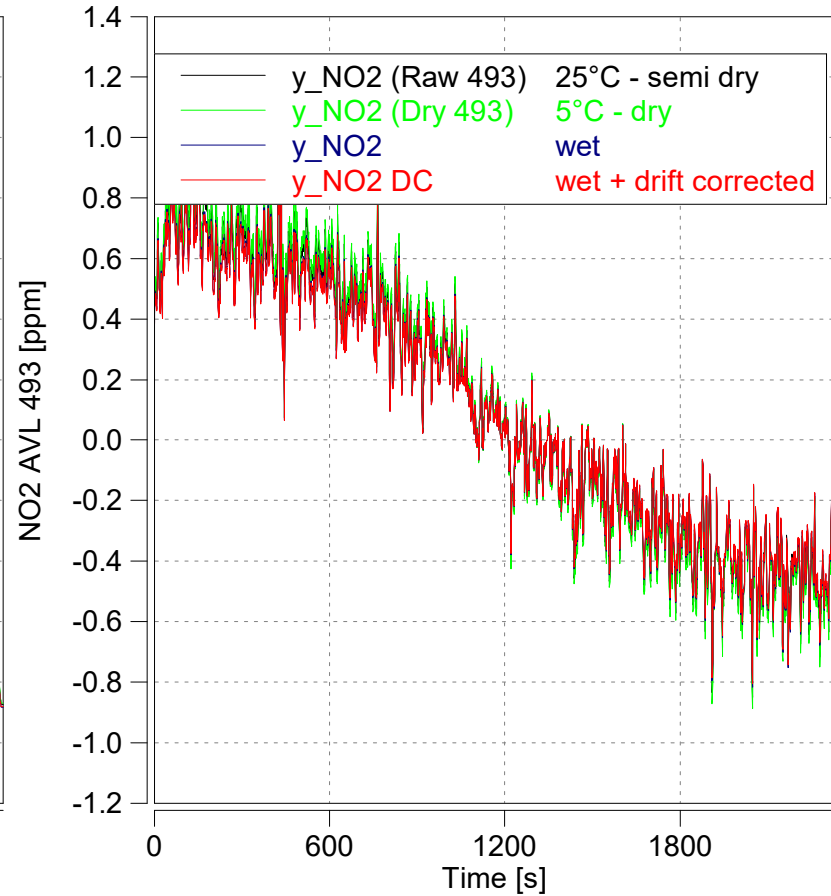
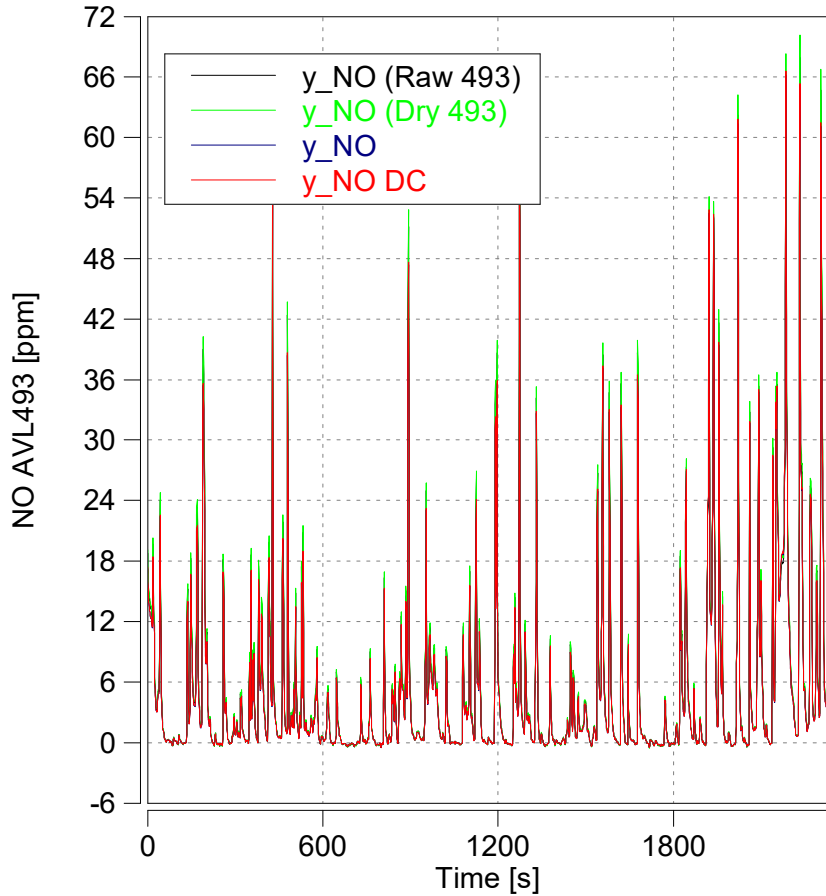


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

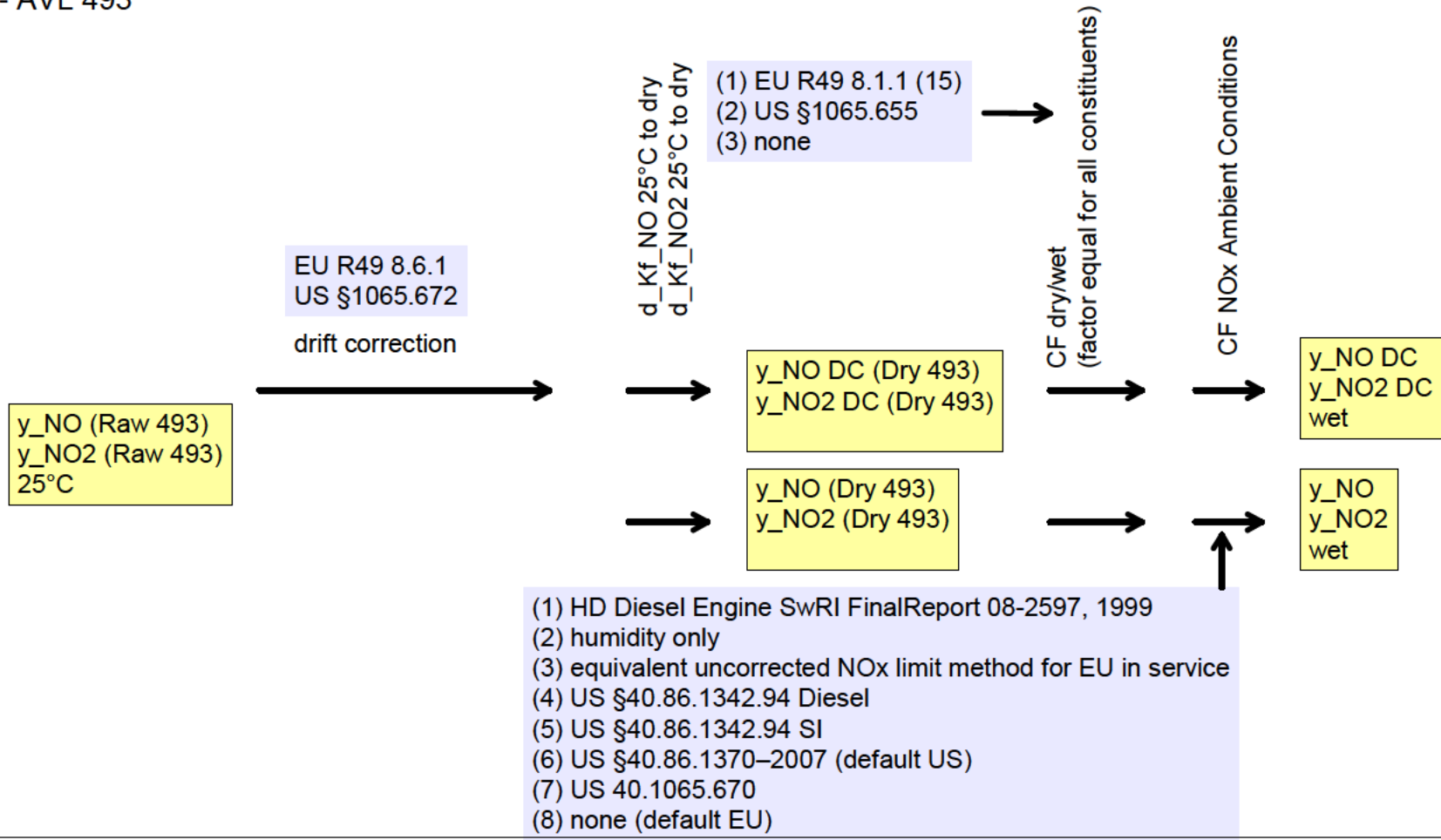


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

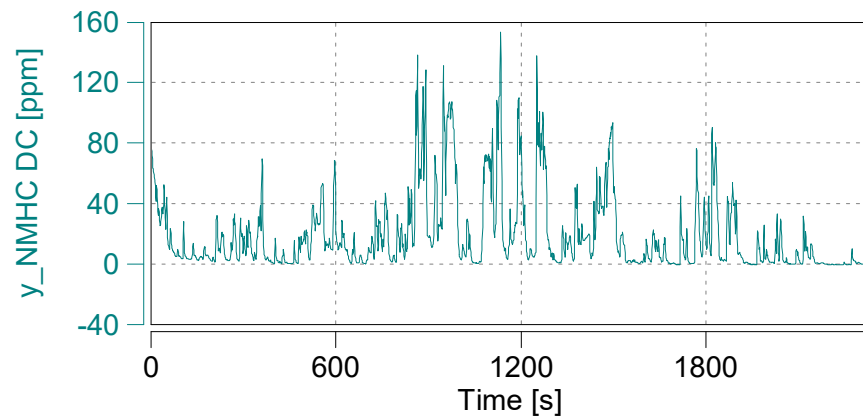
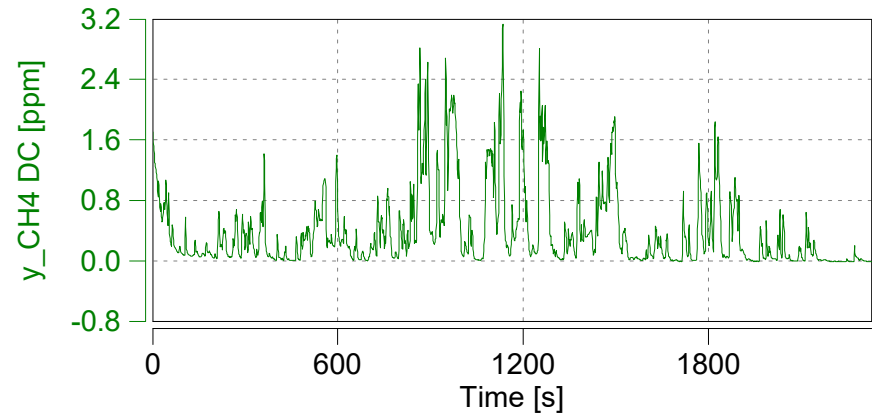
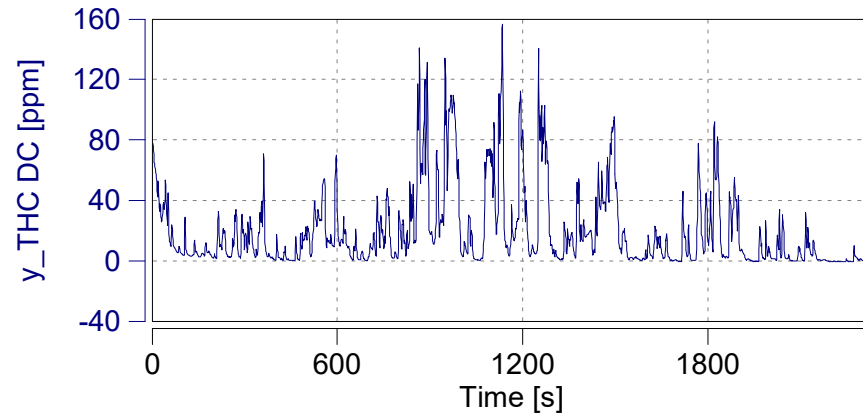
'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1

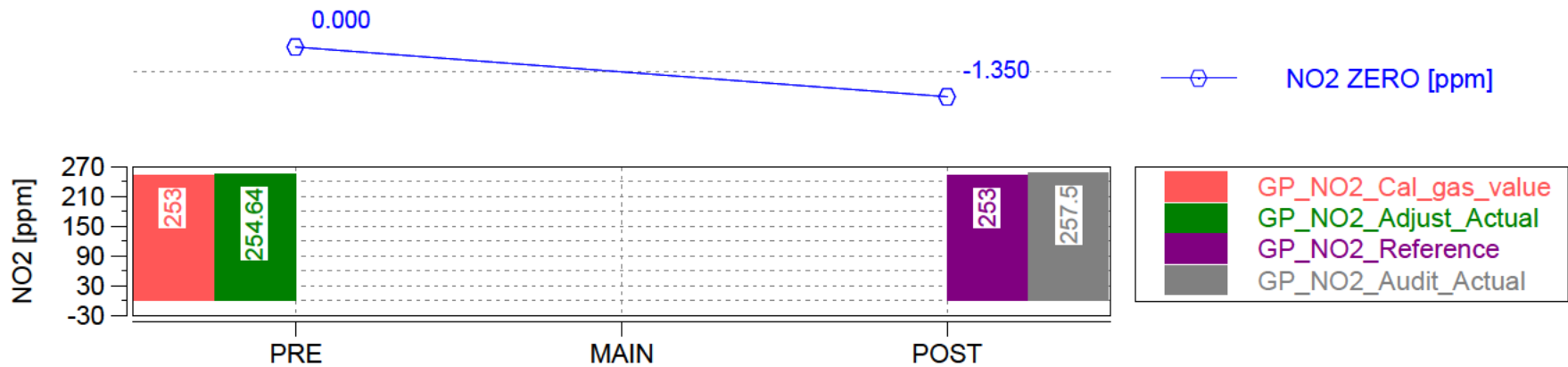
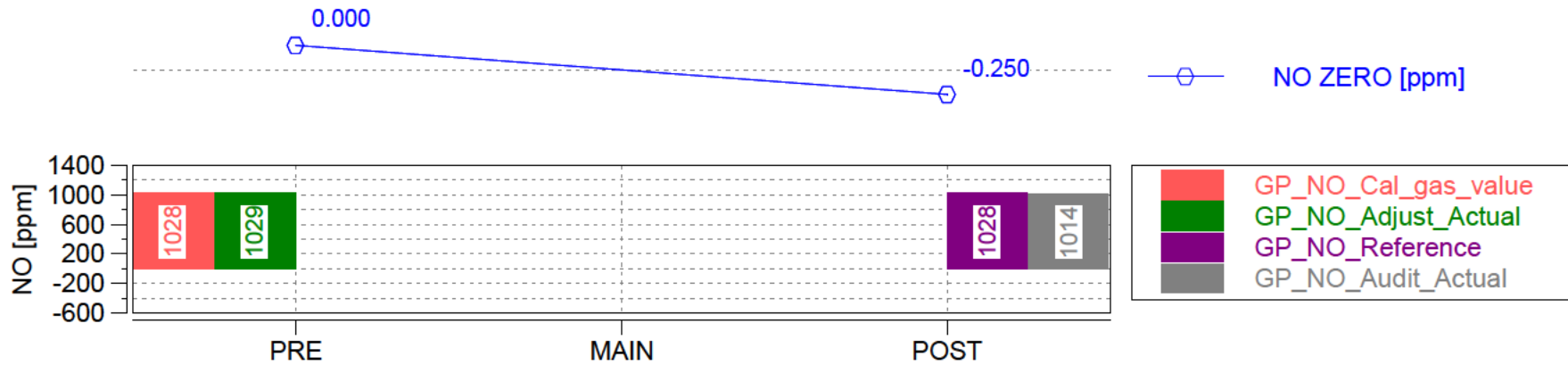
Legislation:

Vehicle: A4 / 2.0 L

Engine: /

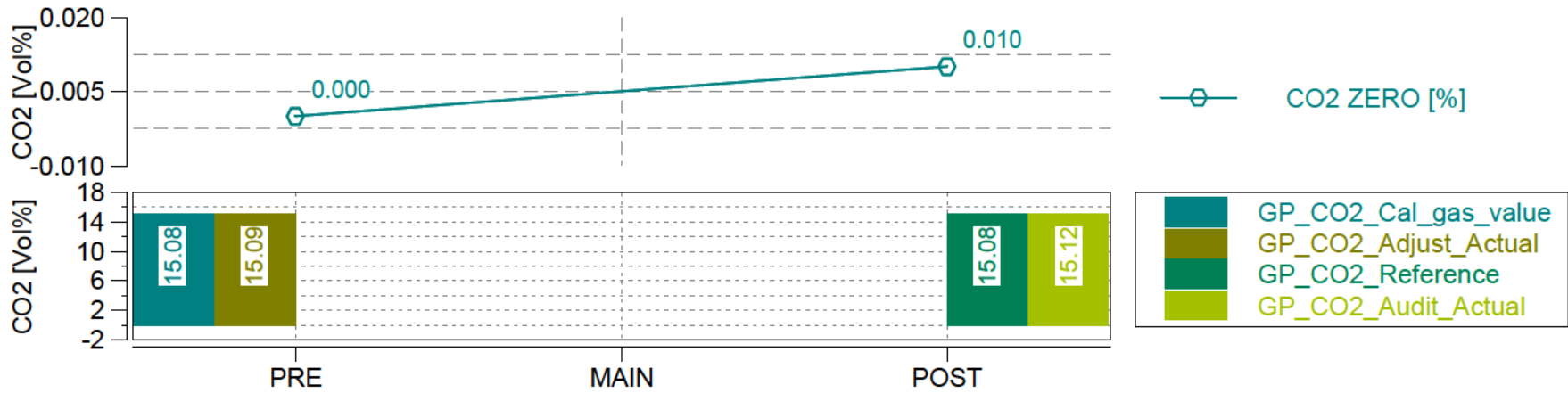
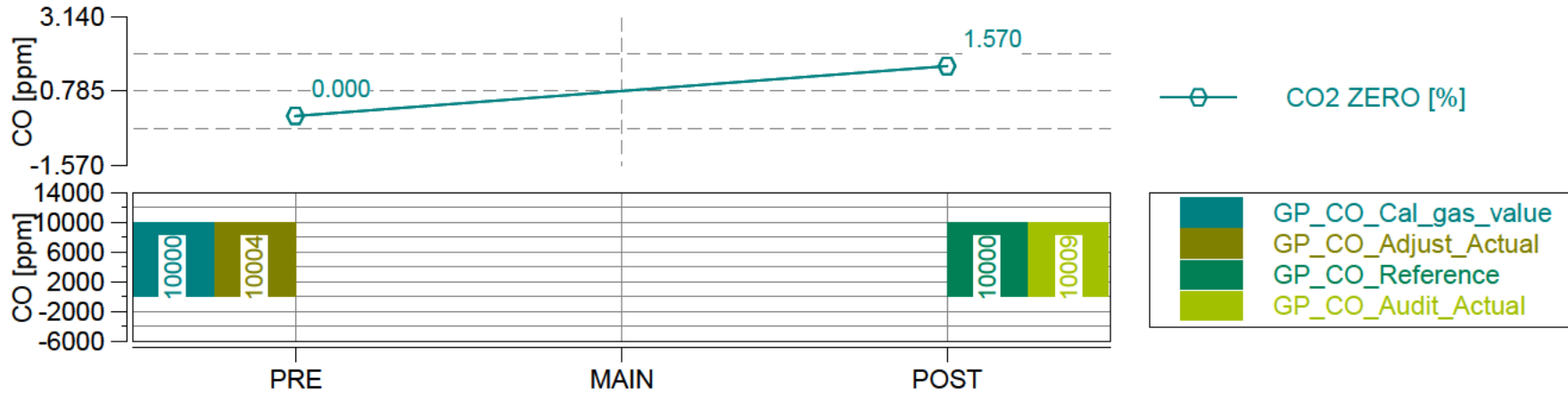
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



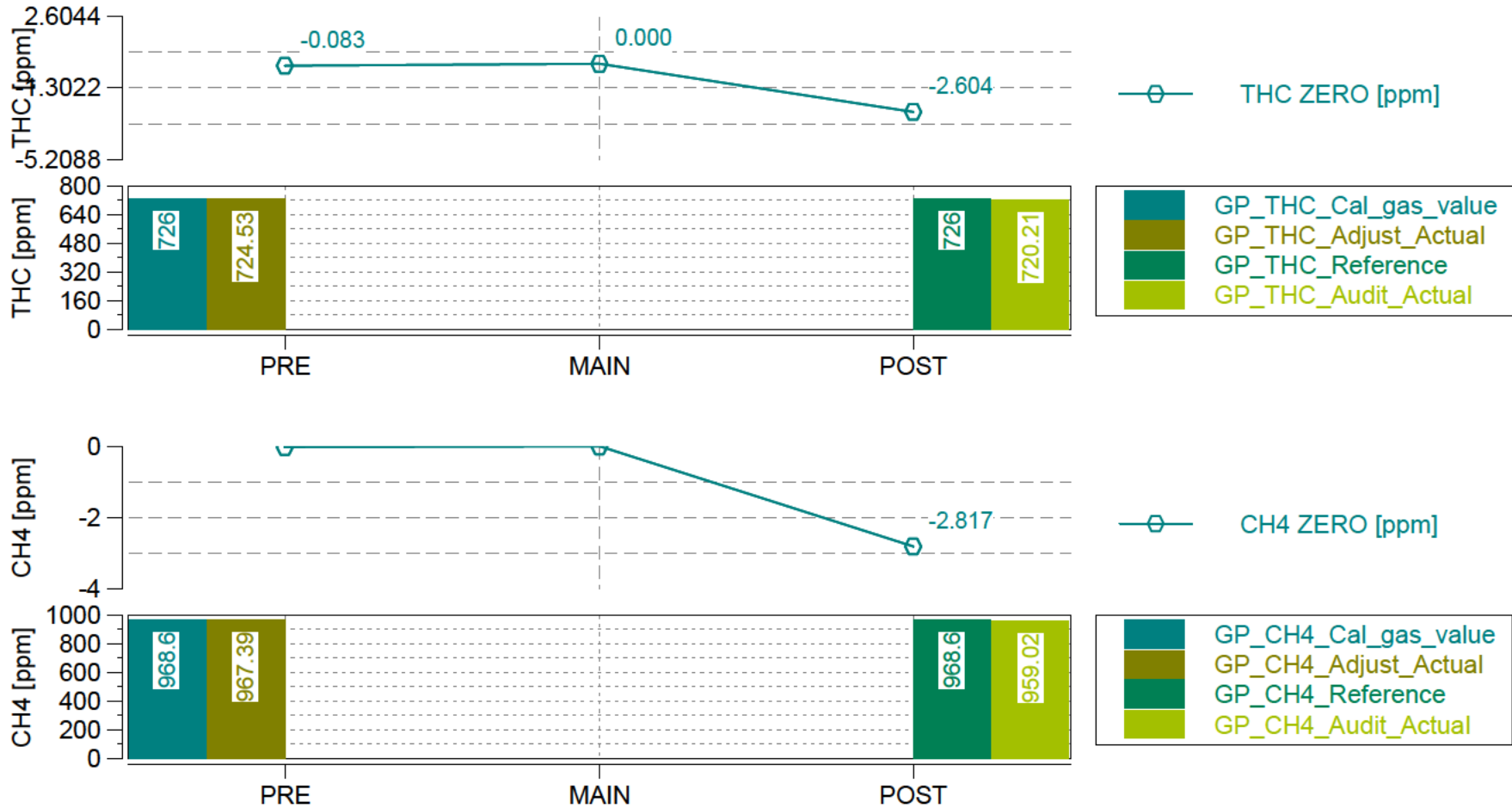
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 08/29/2019
Start Time: 13:52:42.0



Trip Duration	3076.00	s	ave THC	13.81187	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3076.00	s	ave NMHC	13.53564	ppm	BS CO	n/a	g/hphr
Trip Distance	28.49	mi	ave CH4	0.27624	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	28.49	mi	ave CO	61.48382	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	10.51851	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	5.53825	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.81	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.78	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	28.67	mpg_US	tot THC	0.62611	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	29.00	mpg_US	tot NMHC	0.57916	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.01388	g	DS CO2	297.03867	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	5.32763	g	DS CO	0.18700	g/mi
Trip Fuel Economy EU GGE (ac)	28.67	mpg_US	tot CO2	8462.51340	g	DS THC	0.02198	g/mi
Trip Fuel Economy US GGE (ac)	29.00	mpg_US	tot NO (d)	0.23172	g	DS NMHC	0.02033	g/mi
Trip Av. Eng. Speed	1563.49	rpm	tot NO2	0.03740	g	DS CH4	0.00049	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.26912	g	DS NO (d)	0.00813	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00131	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00945	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	47.10	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	86.17	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	42.10	%	Trip Av. Veh. Speed	33.34435	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	205.86	m	Trip Velocity Zero	11.63849	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	11.44224	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	21.48639	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	67.07138	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

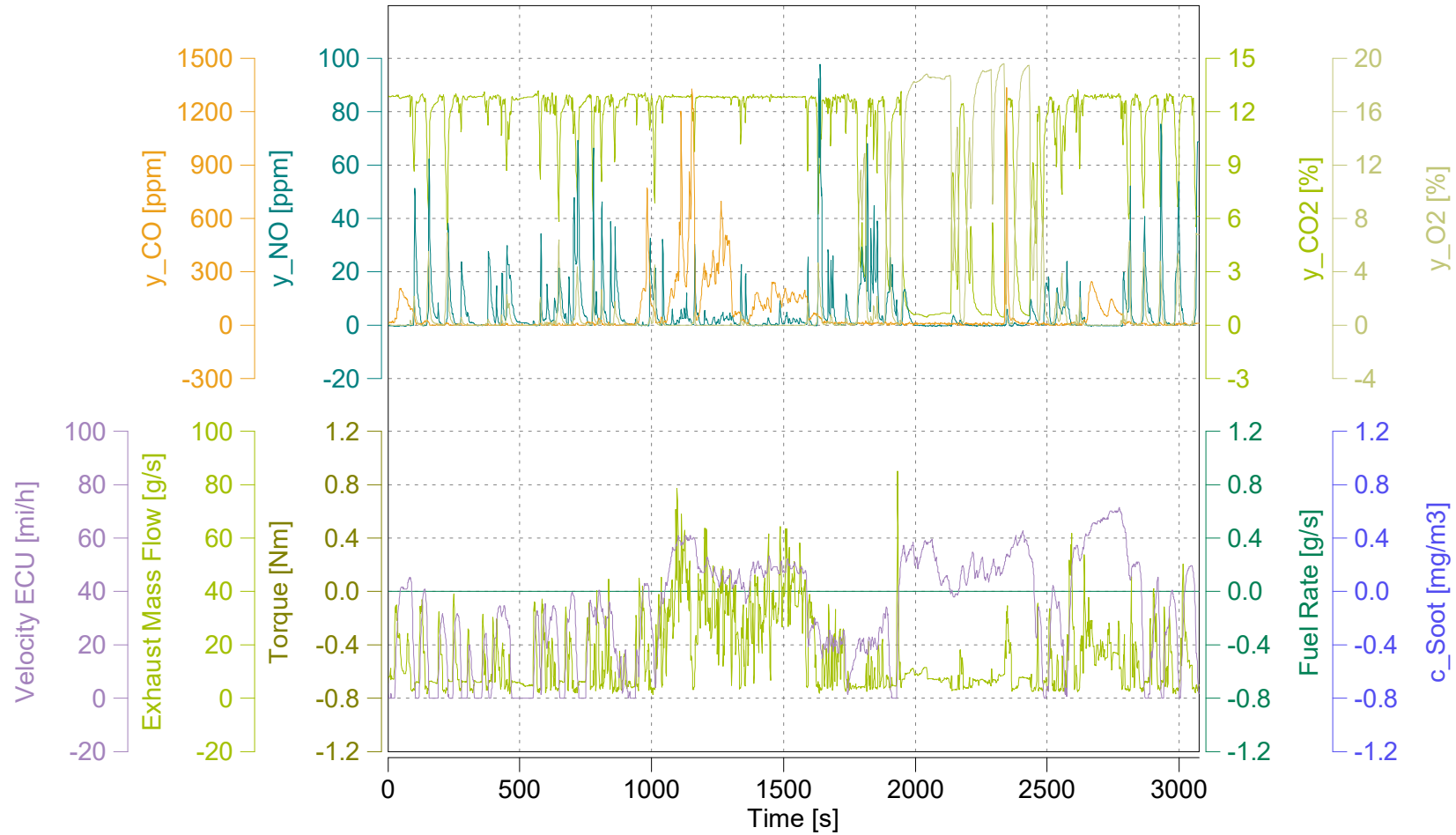


Trip Duration	3076.00	s	ave THC DC	13.92202	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3076.00	s	ave NMHC DC	13.64358	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.49	mi	ave CH4 DC	0.27844	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.49	mi	ave CO DC	61.44603	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	10.50110	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	5.56209	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.81	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.78	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.63020	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	28.67	mpg_US	tot NMHC DC	0.58294	g			
Trip Fuel Economy US (ac)	29.00	mpg_US	tot CH4 DC	0.01397	g	DS CO2 DC	296.54705	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	5.32436	g	DS CO DC	0.18689	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	8448.50725	g	DS THC DC	0.02212	g/mi
Trip Fuel Economy EU GGE (ac)	28.67	mpg_US	tot NO DC (d)	0.23310	g	DS NMHC DC	0.02046	g/mi
Trip Fuel Economy US GGE (ac)	29.00	mpg_US	tot NO2 DC	0.03696	g	DS CH4 DC	0.00049	g/mi
			tot NOx DC	0.27006	g	DS NO DC (d)	0.00818	g/mi
Trip Av. Eng. Speed	1563.49	rpm	tot Soot	n/a	g	DS NO2 DC	0.00130	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.00948	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	47.10	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	33.34435	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	86.17	deg_F	Trip Velocity Zero	11.63849	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	42.10	%	Trip Velocity Urban	11.44224	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	205.86	m	Trip Velocity Rural	21.48639	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	67.07138	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

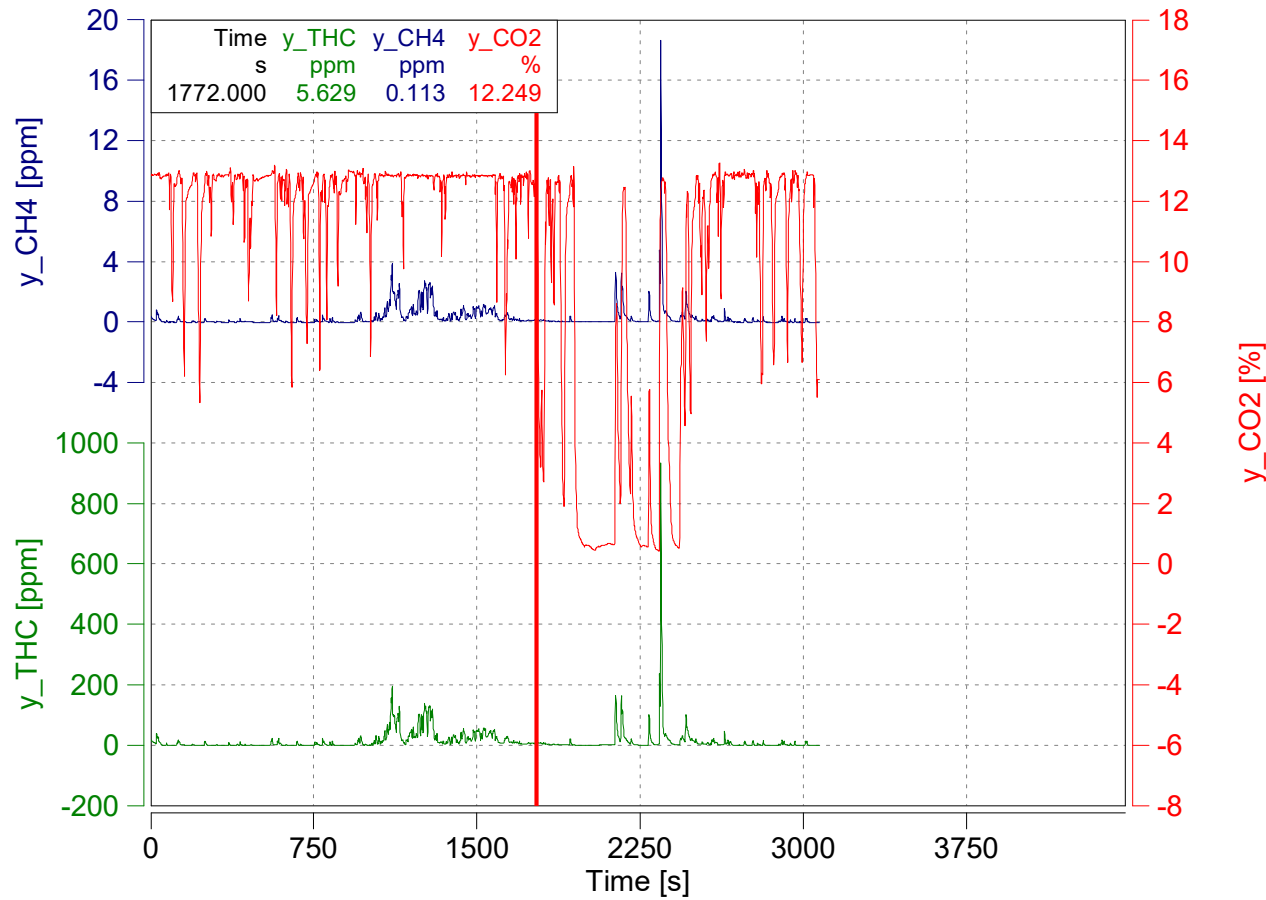
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

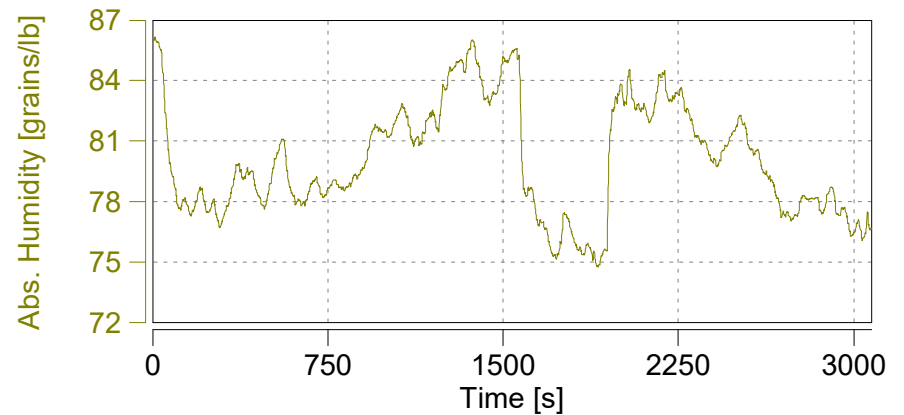
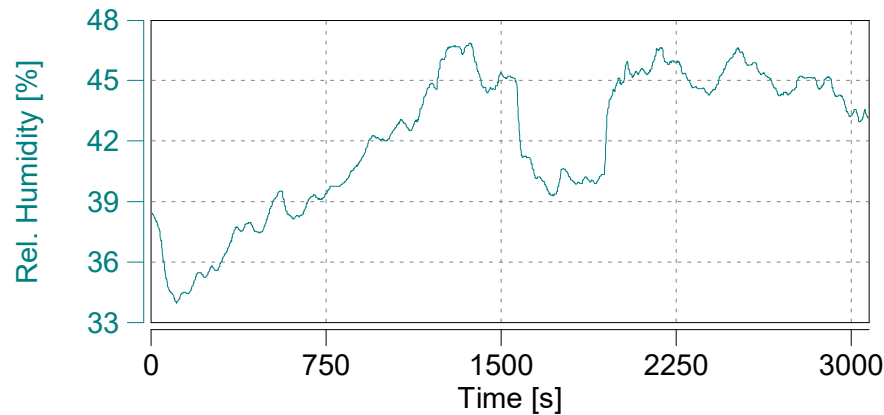
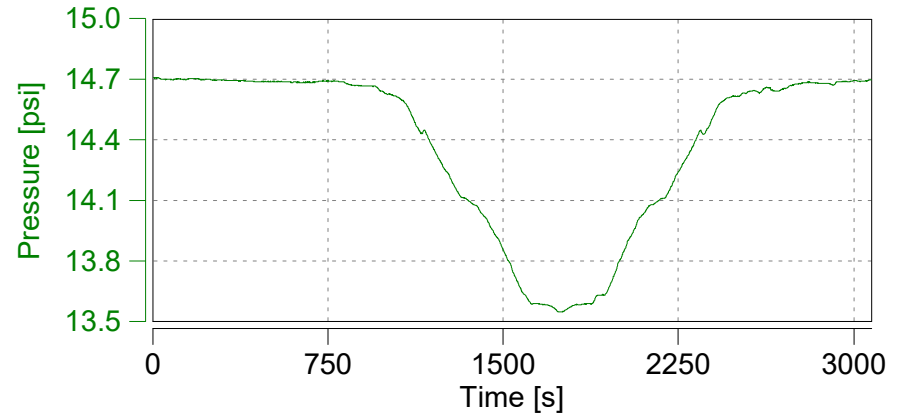
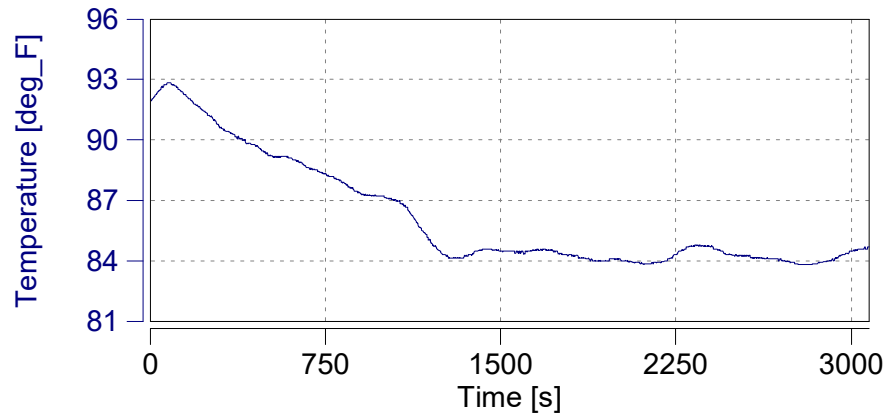
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

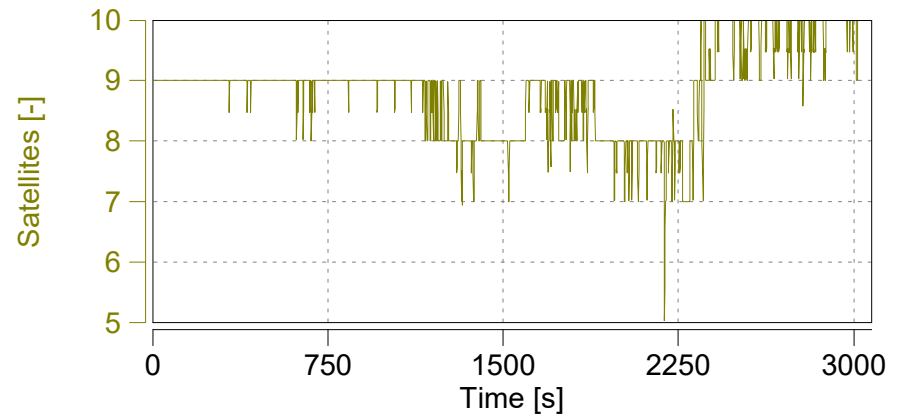
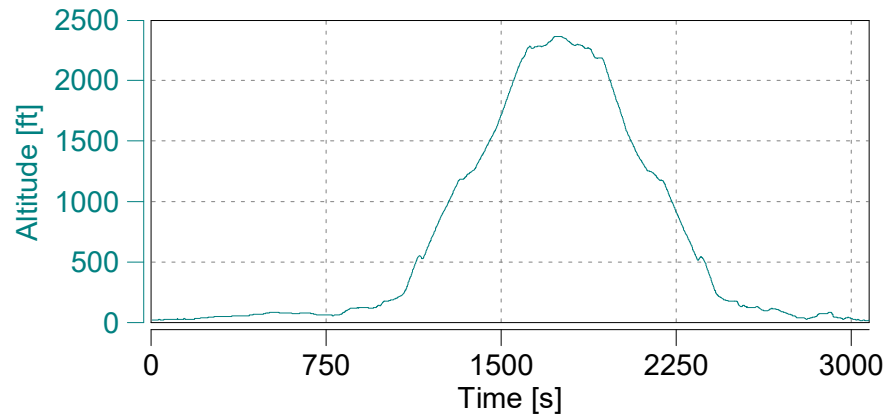
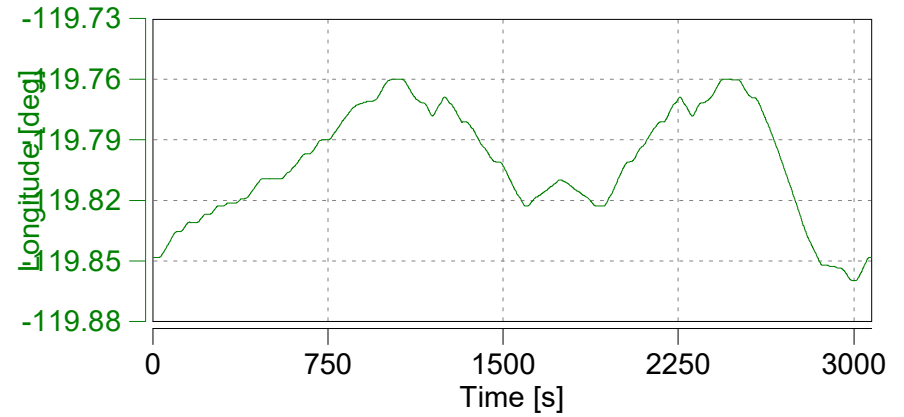
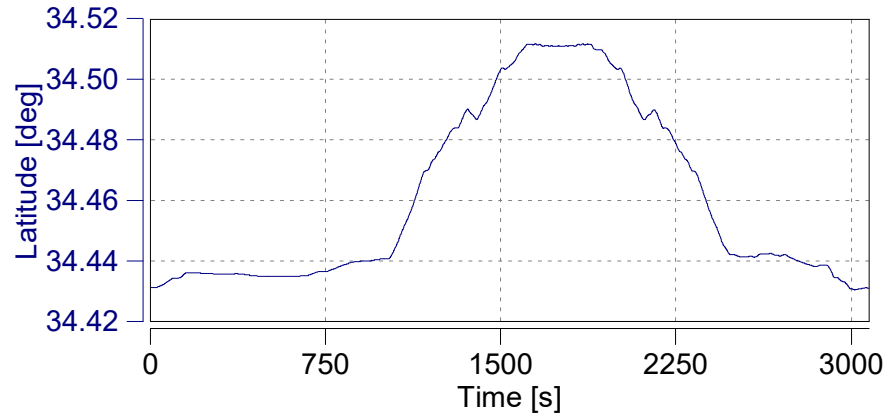
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



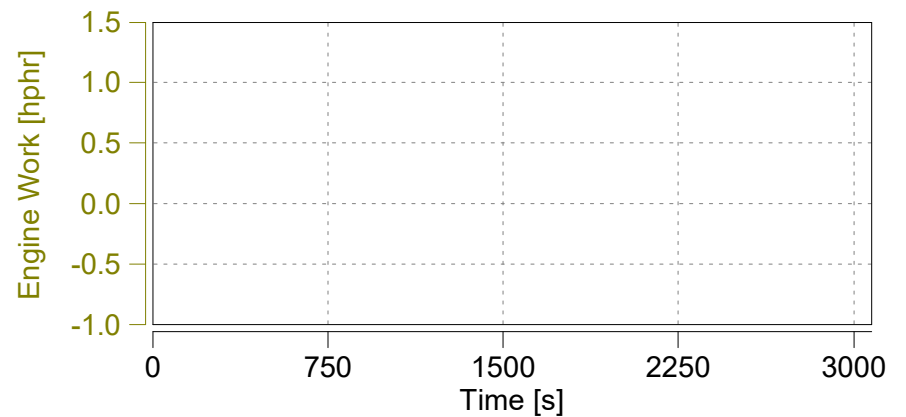
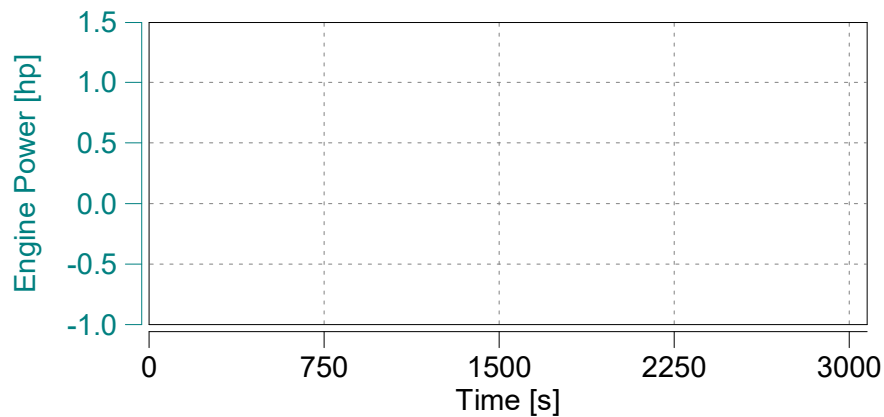
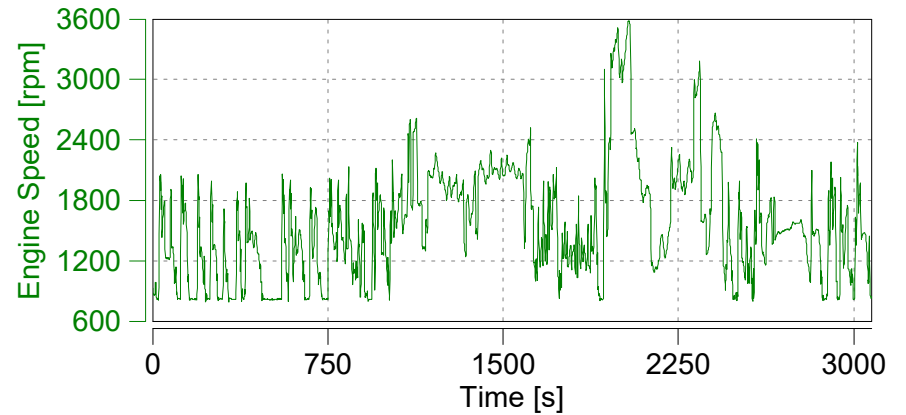
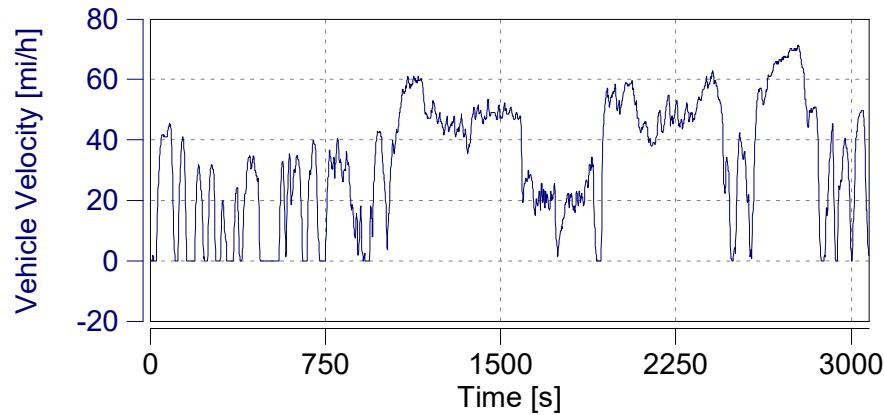
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



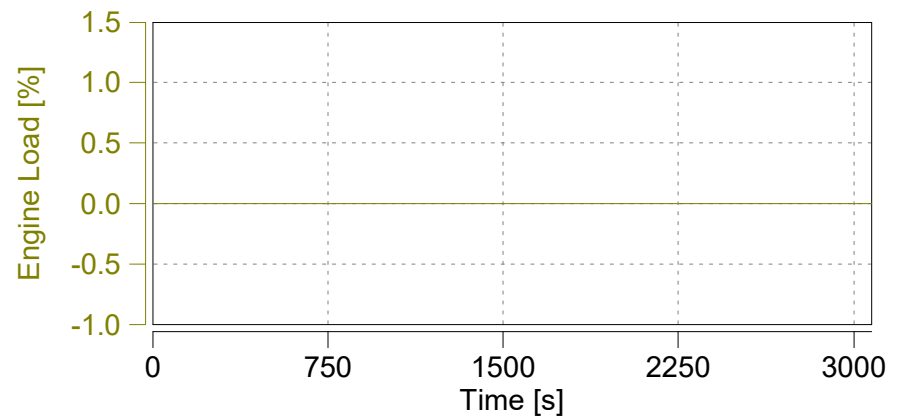
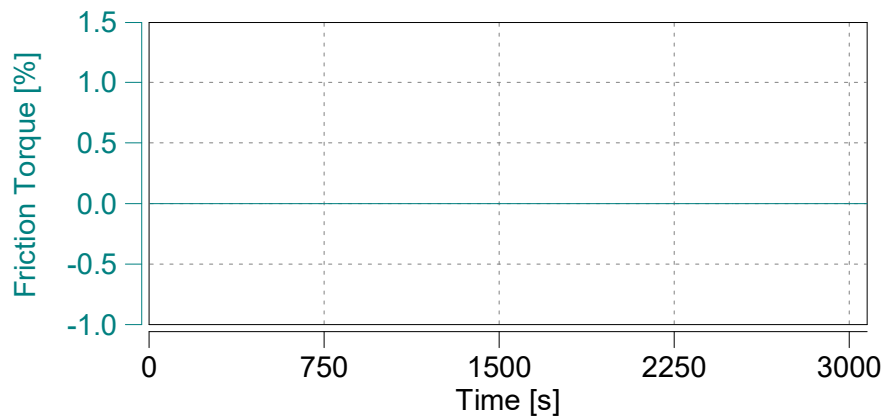
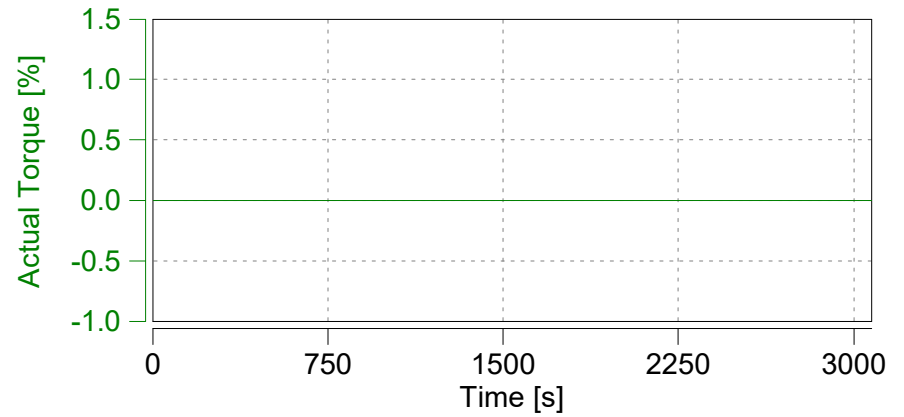
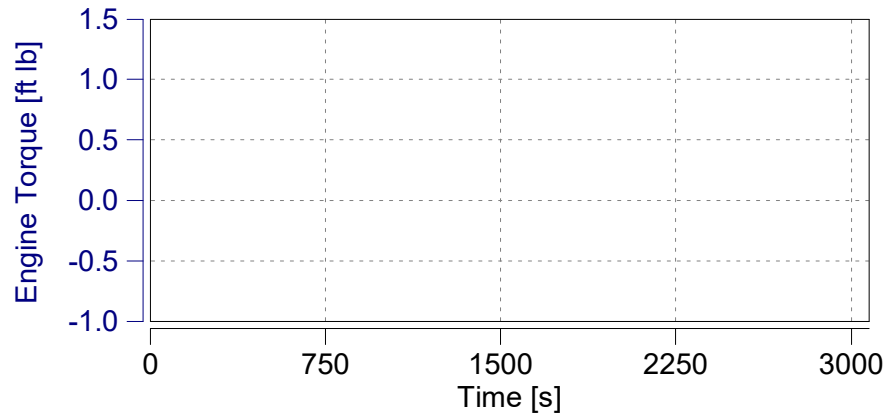
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



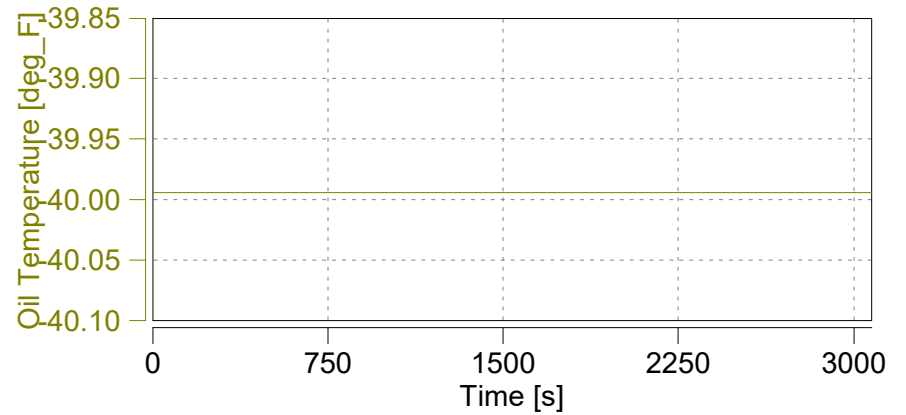
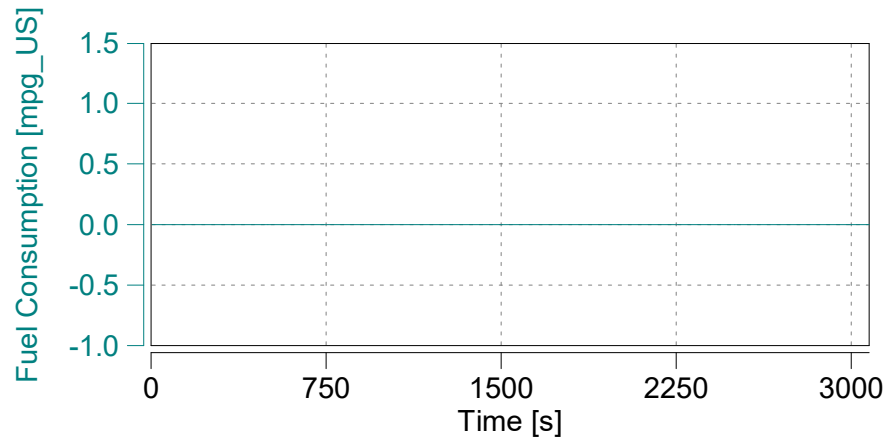
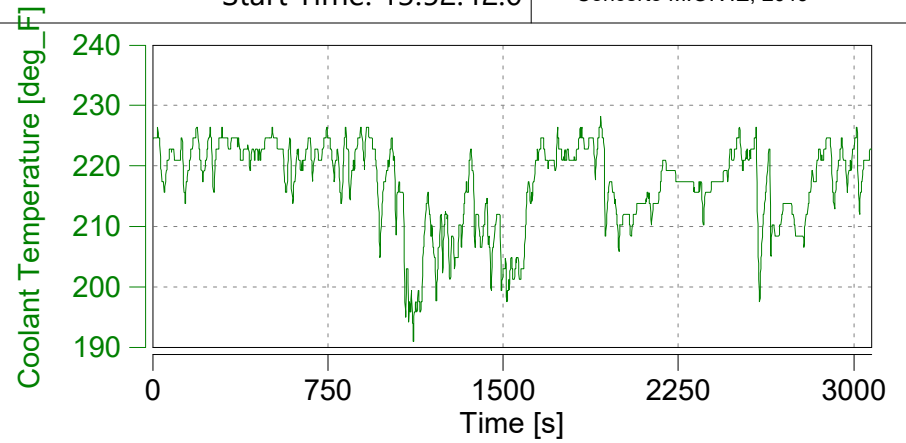
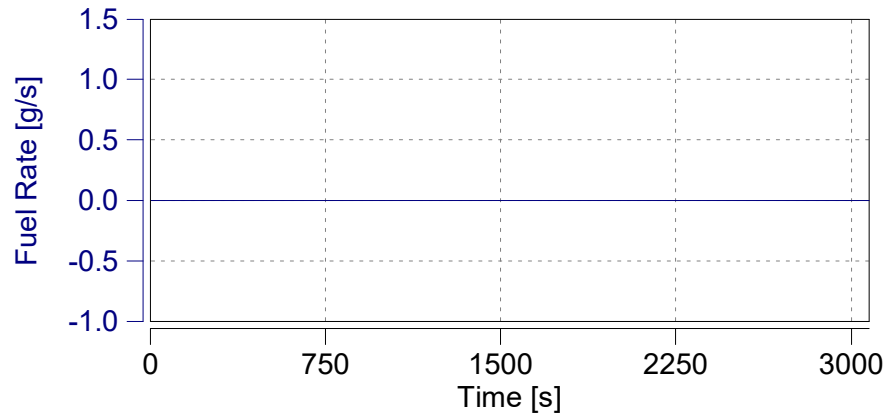
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



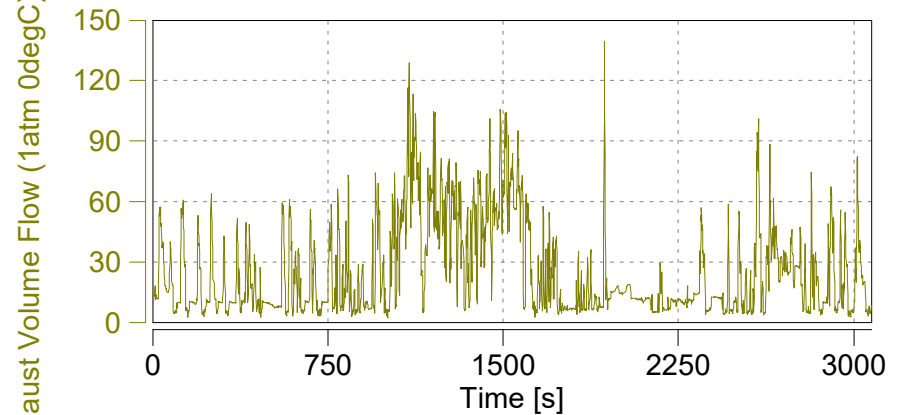
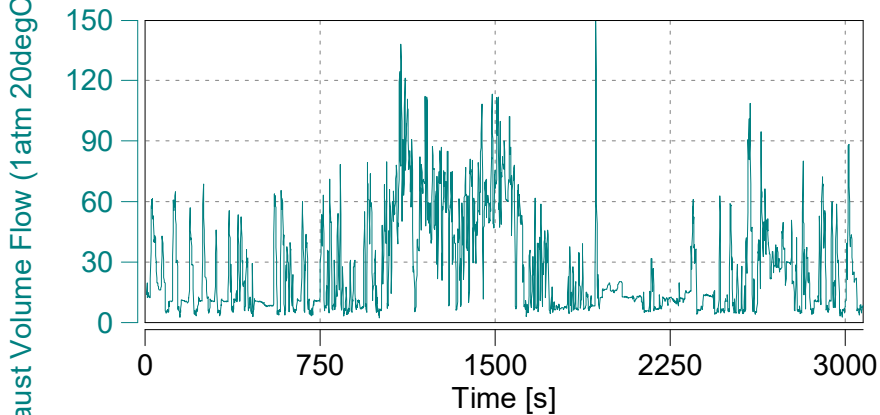
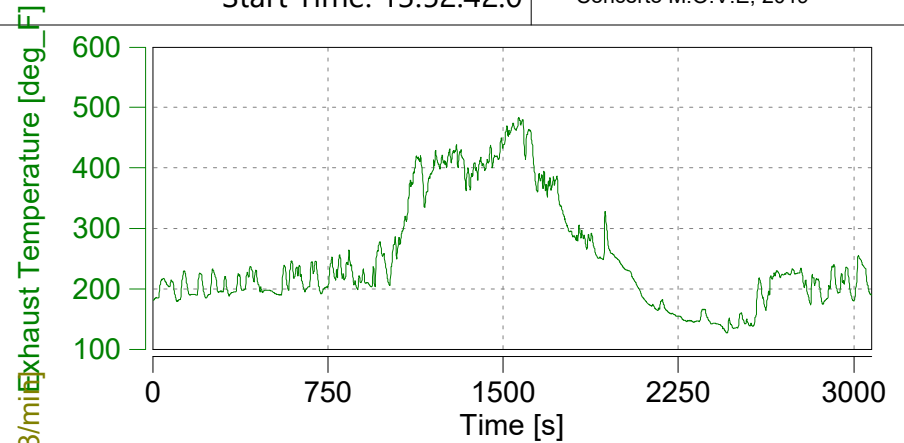
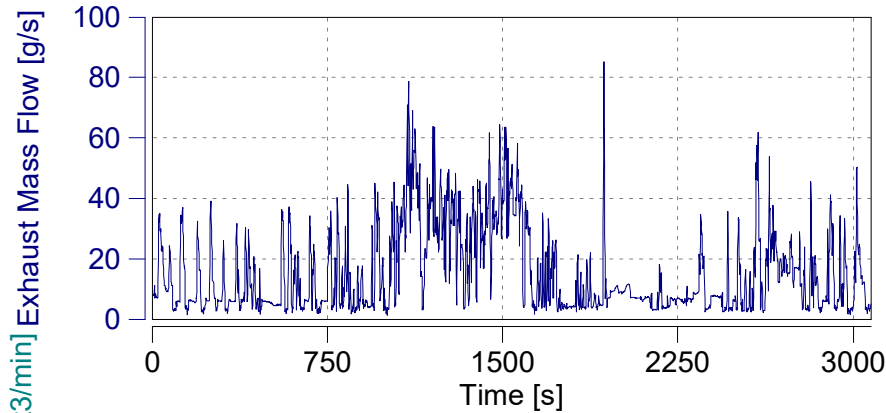
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



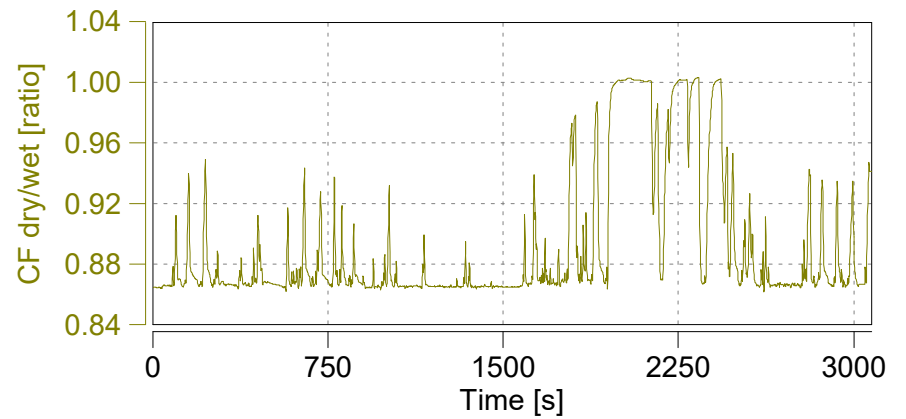
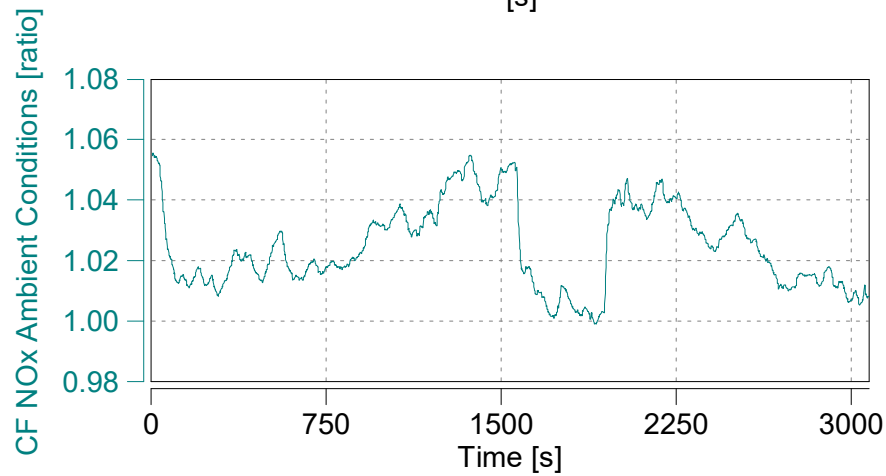
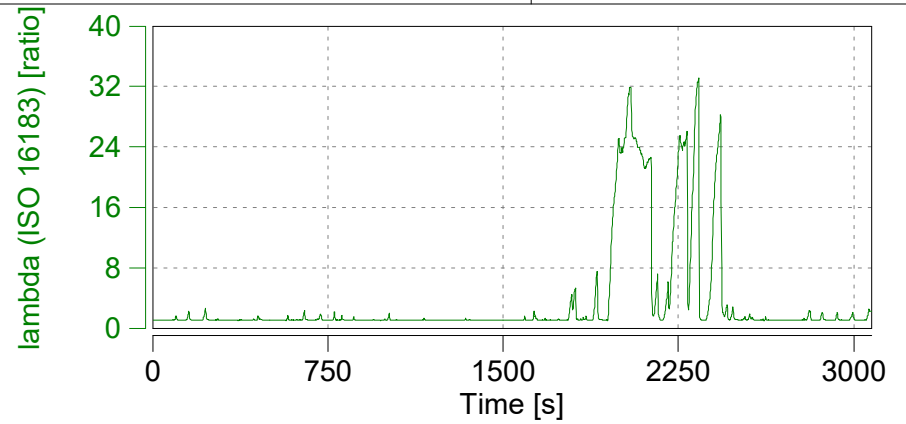
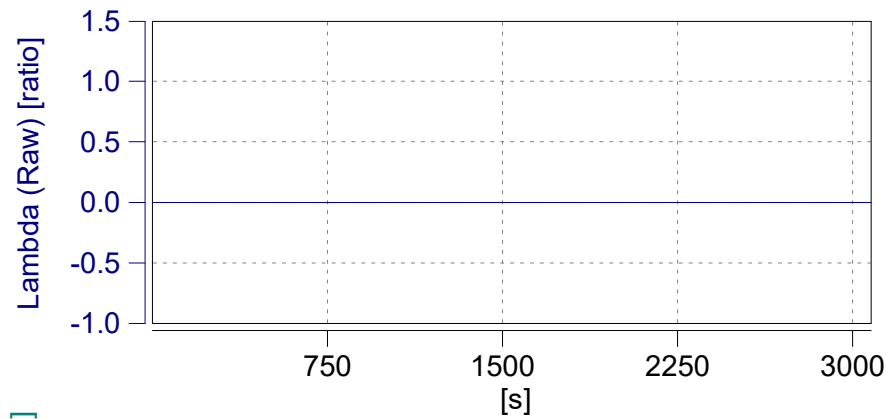
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



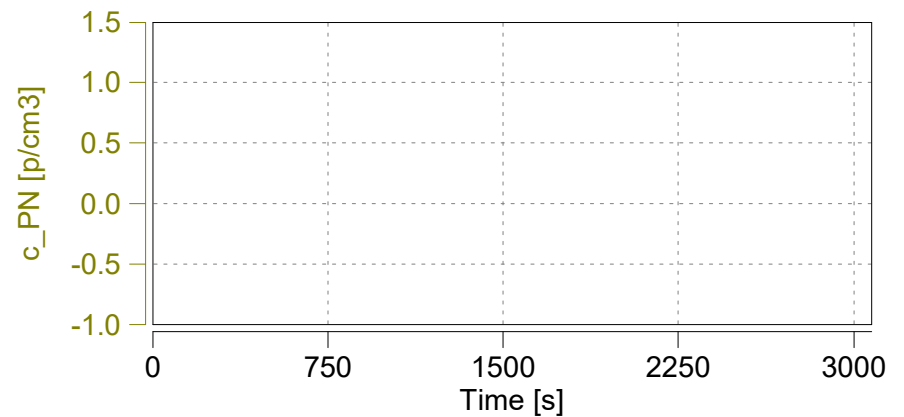
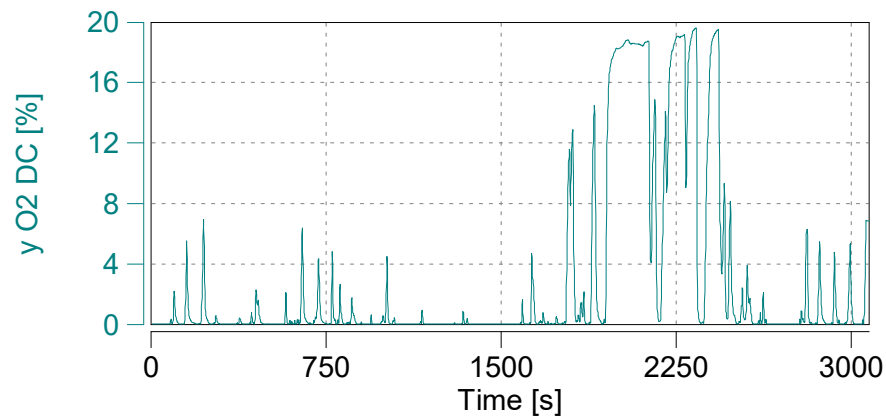
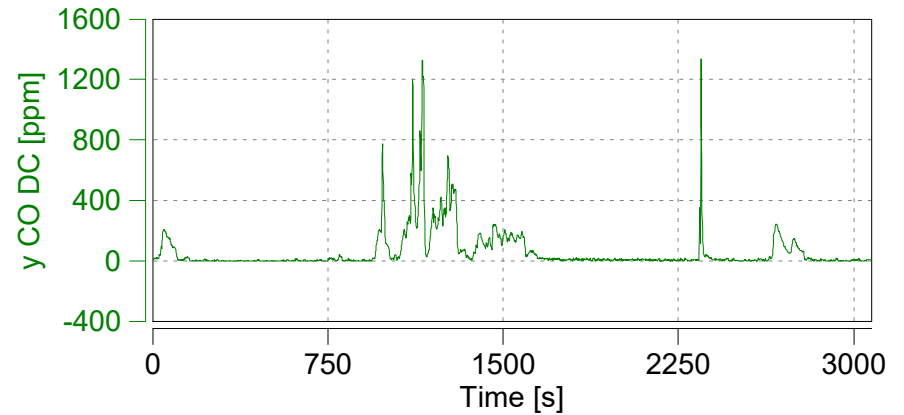
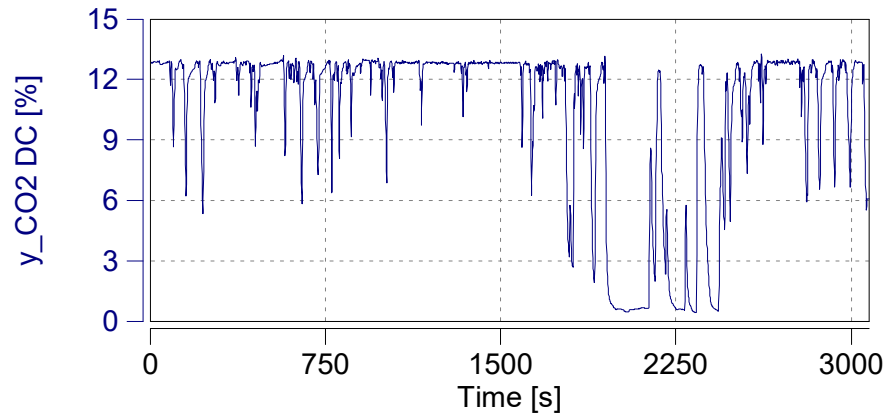
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain

Page: Corrected Emissions (2)

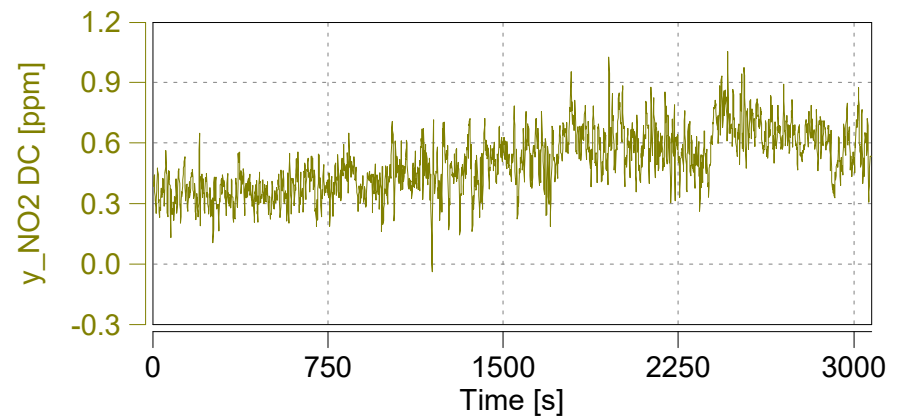
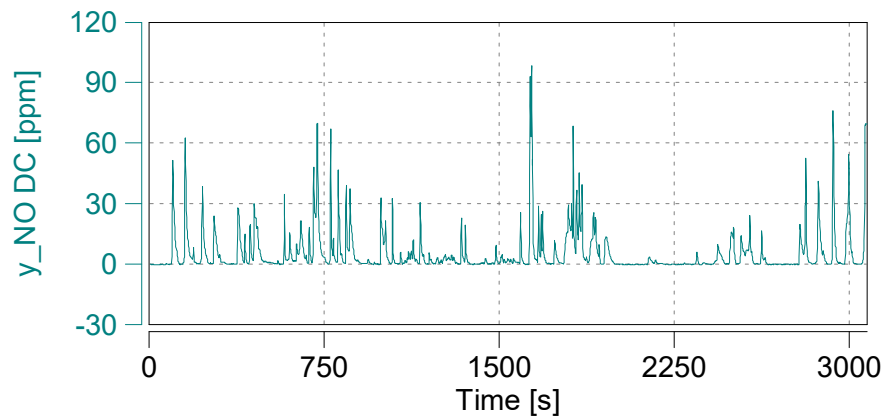
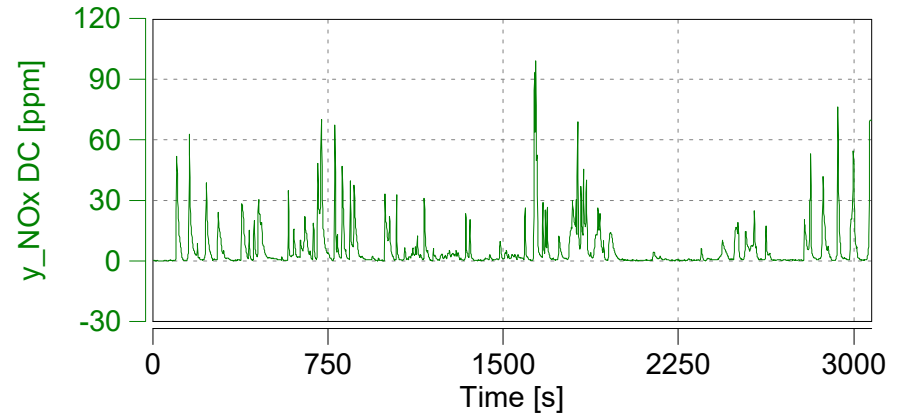
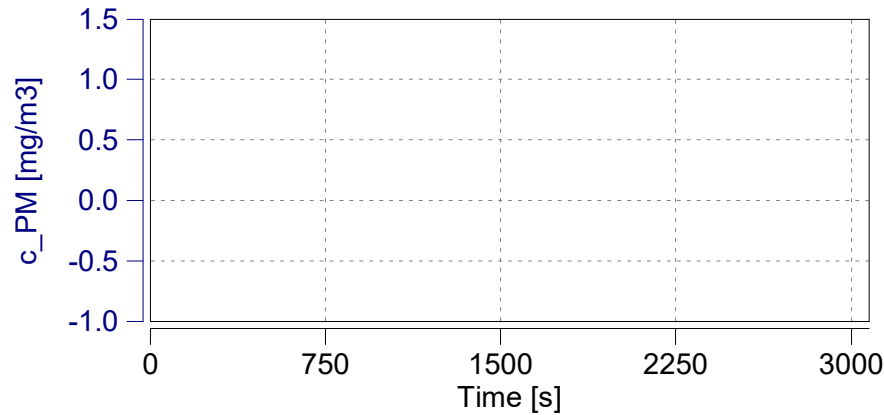
'Mountain'

Start Date: 08/29/2019

Start Time: 13:52:42.0

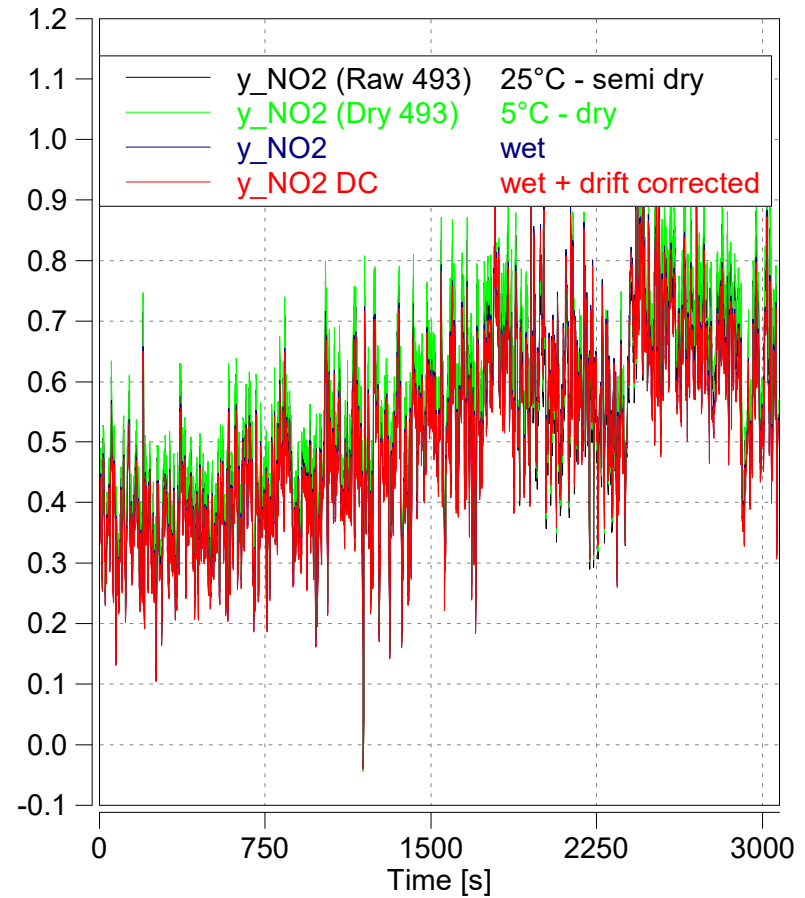
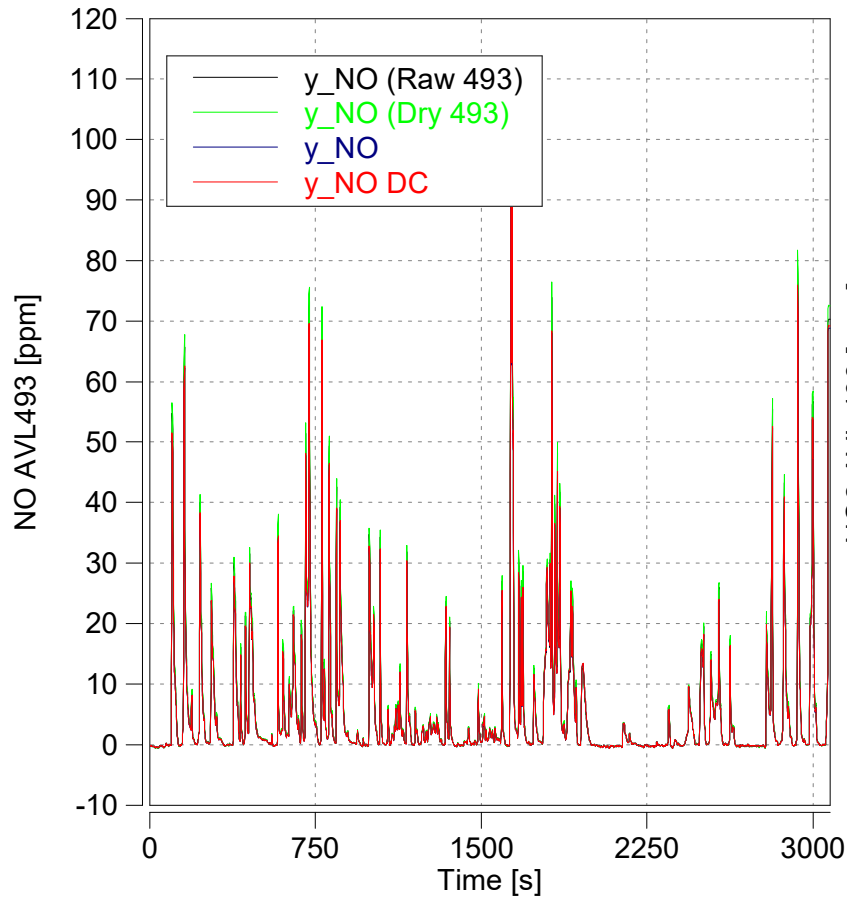


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R3.1
Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

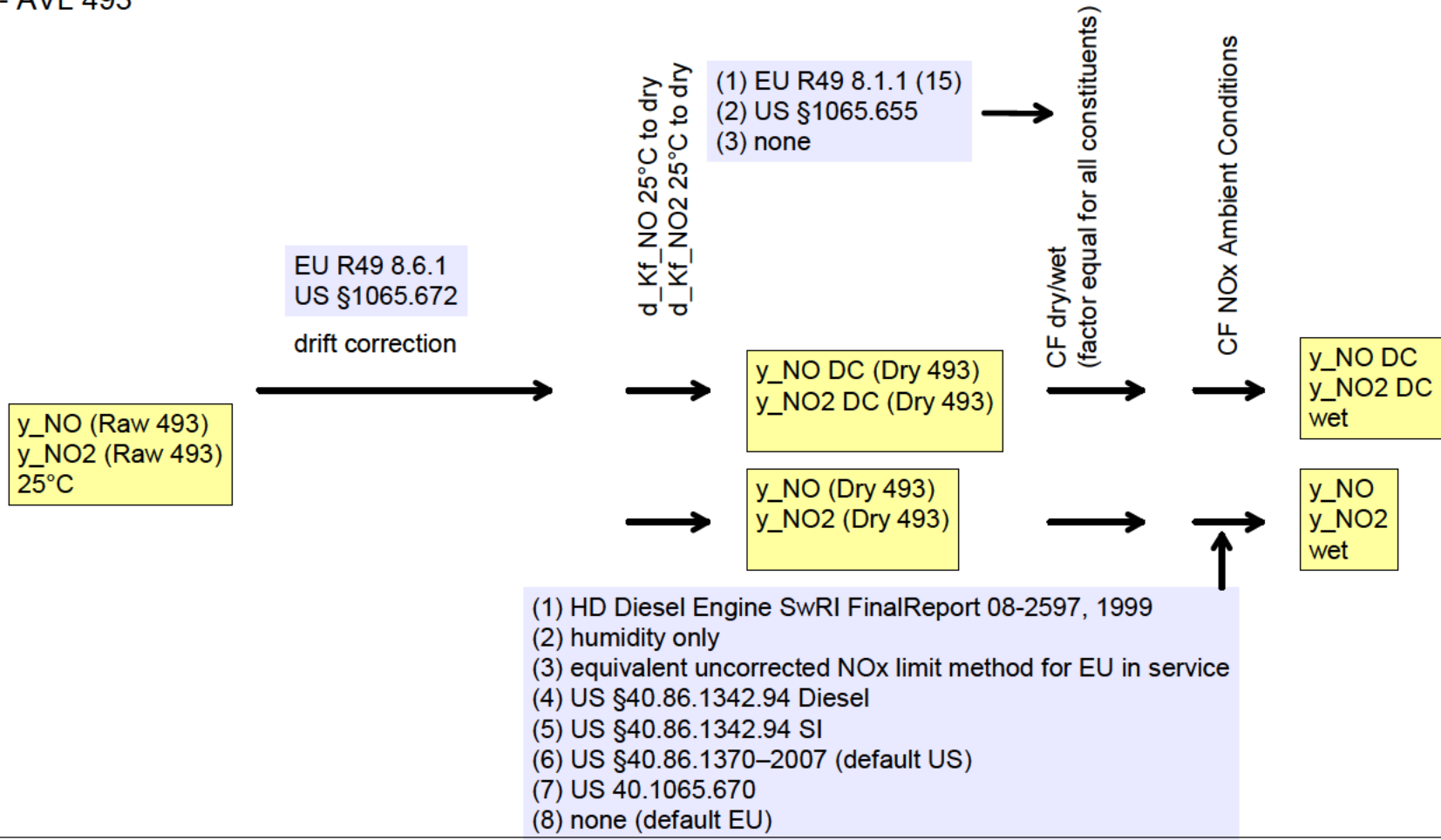


Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Mountain

Page: Corrected Emissions (5)

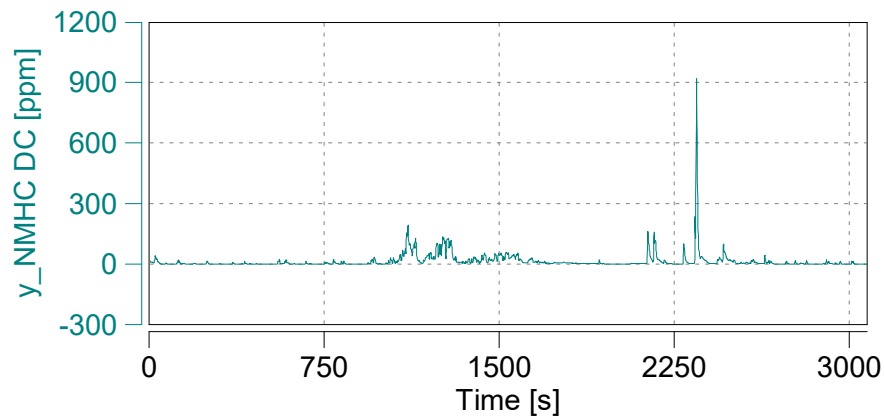
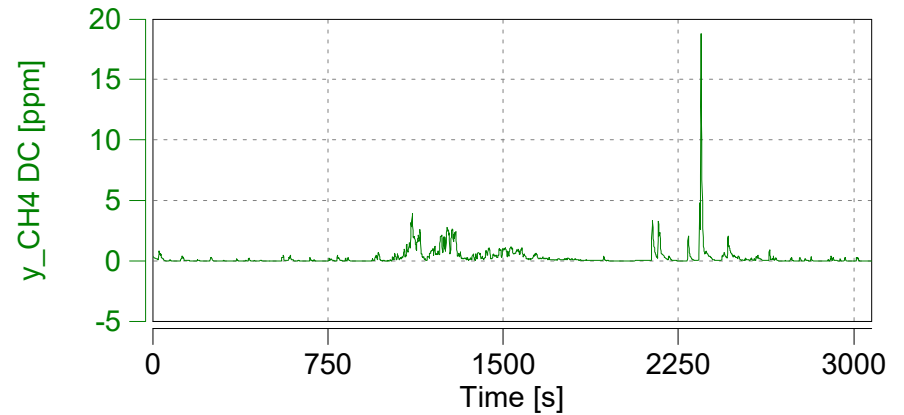
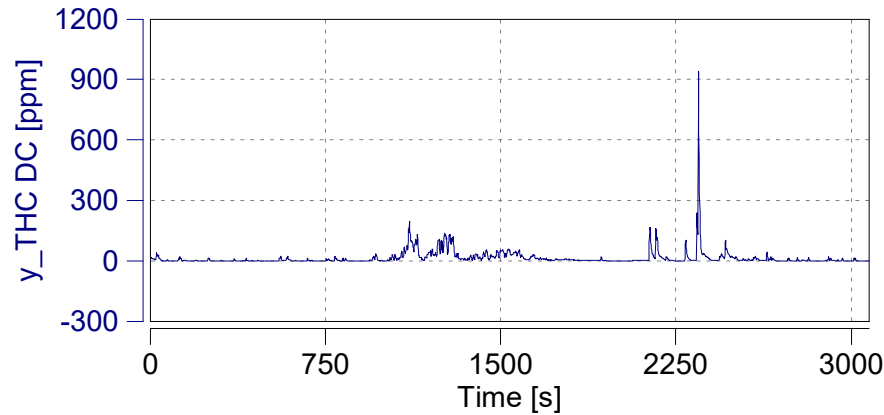
'Mountain'

Start Date: 08/29/2019

Start Time: 13:52:42.0

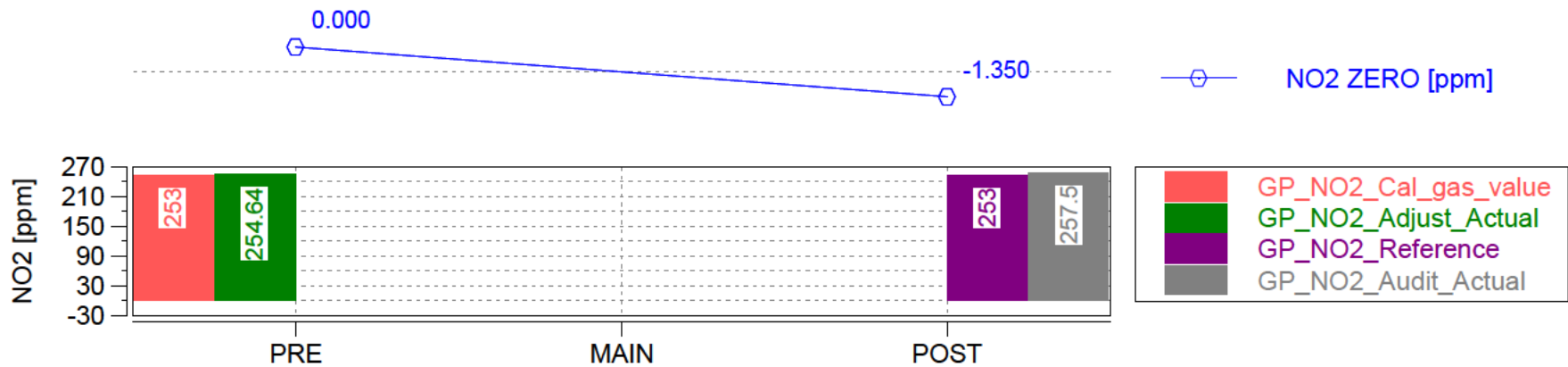
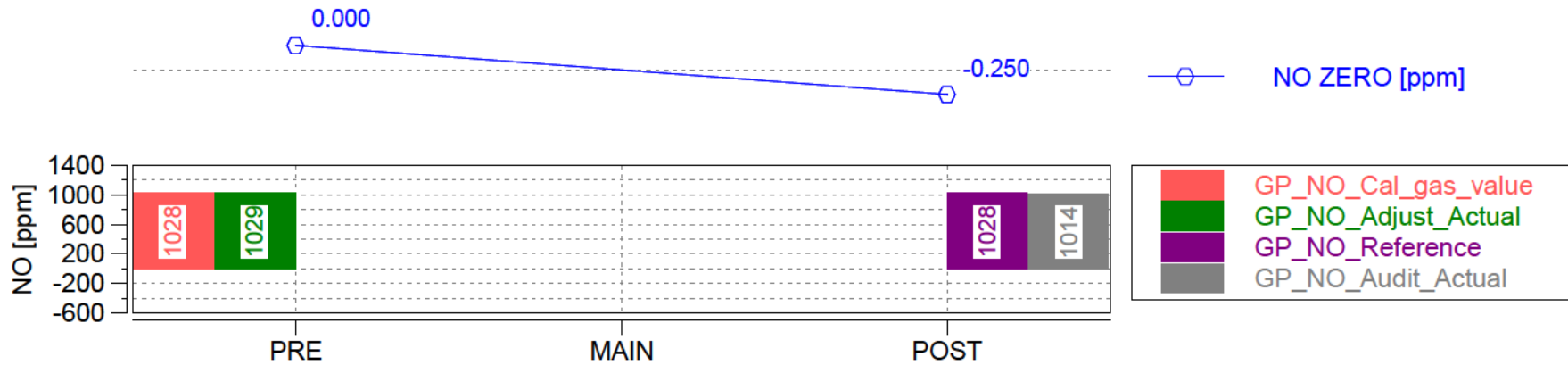


Concerto M.O.V.E., 2019



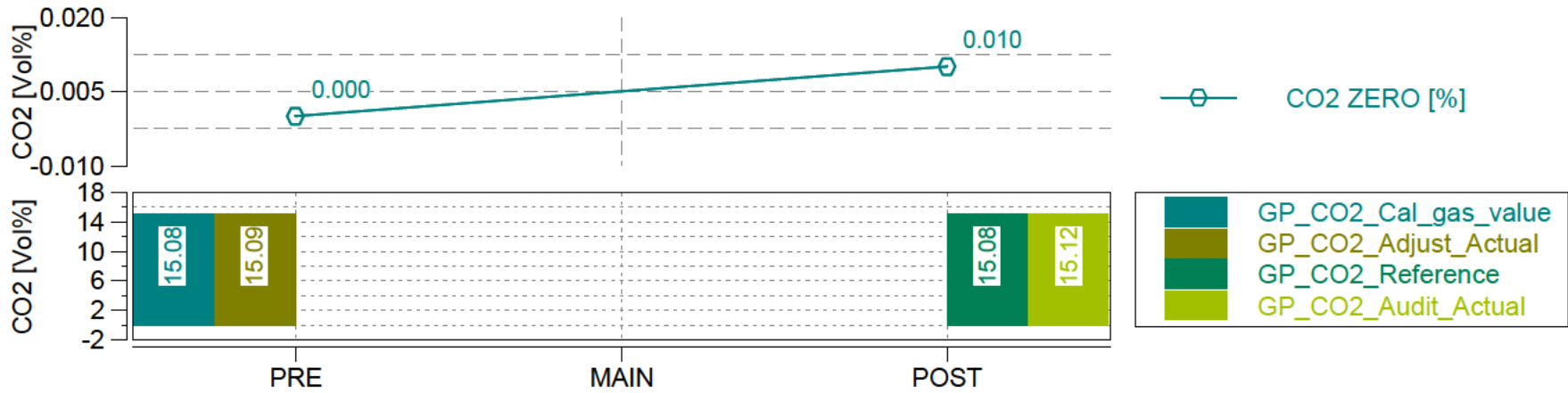
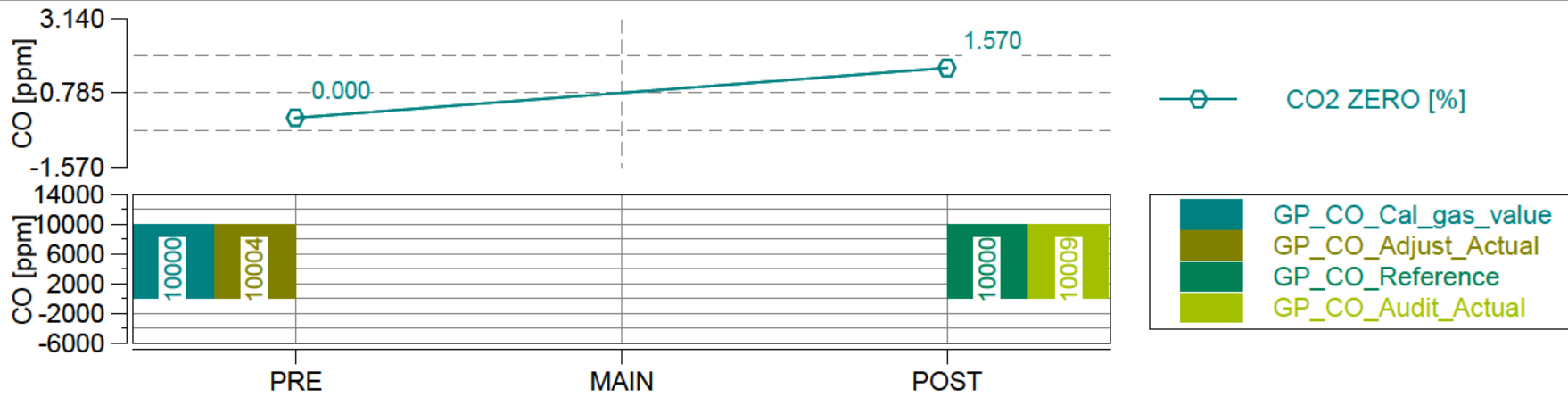
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



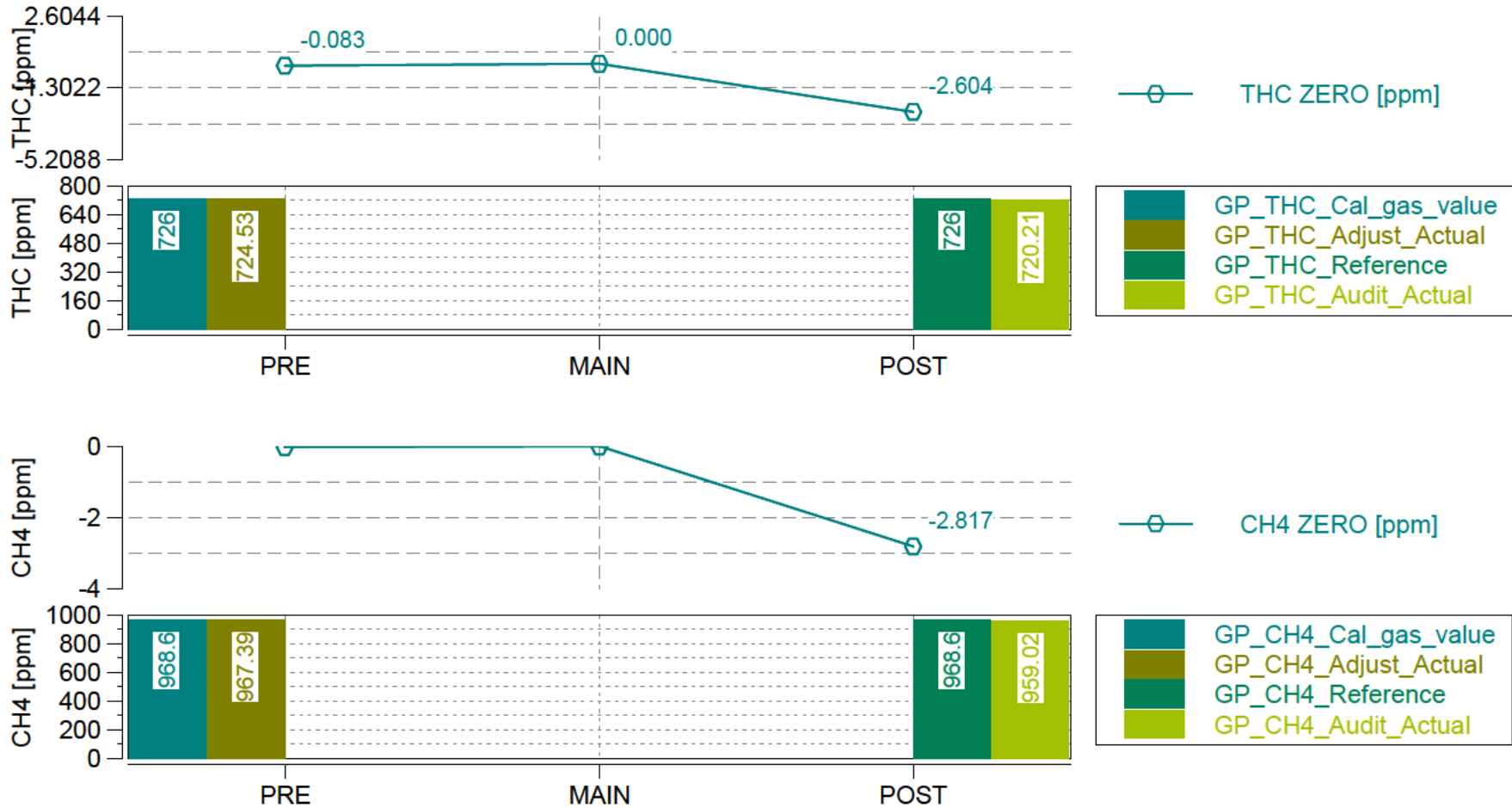
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 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A4 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City
Page: Trip Summary

'City'
Start Date: 09/23/2019
Start Time: 13:18:44.0



Trip Duration	3871.00	s	ave THC	0.10313	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3871.00	s	ave NMHC	0.10107	ppm	BS CO	n/a	g/hphr
Trip Distance	16.14	mi	ave CH4	0.00206	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	16.14	mi	ave CO	19.27795	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.09346	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	11.85668	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.08	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.05	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	14.81	mpg_US	tot THC	0.02563	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	14.97	mpg_US	tot NMHC	0.02371	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.00057	g	DS CO2	575.71235	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	1.44680	g	DS CO	0.08966	g/mi
Trip Fuel Economy EU GGE (ac)	14.81	mpg_US	tot CO2	9289.87559	g	DS THC	0.00159	g/mi
Trip Fuel Economy US GGE (ac)	14.97	mpg_US	tot NO (d)	0.61516	g	DS NMHC	0.00147	g/mi
Trip Av. Eng. Speed	1333.84	rpm	tot NO2	0.09021	g	DS CH4	0.00004	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.70538	g	DS NO (d)	0.03812	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00559	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.04371	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	49.24	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	89.95	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	36.39	%	Trip Av. Veh. Speed	15.01034	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	71.92	m	Trip Velocity Zero	32.13640	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	82.22307	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	4.64408	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	13.13285	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0



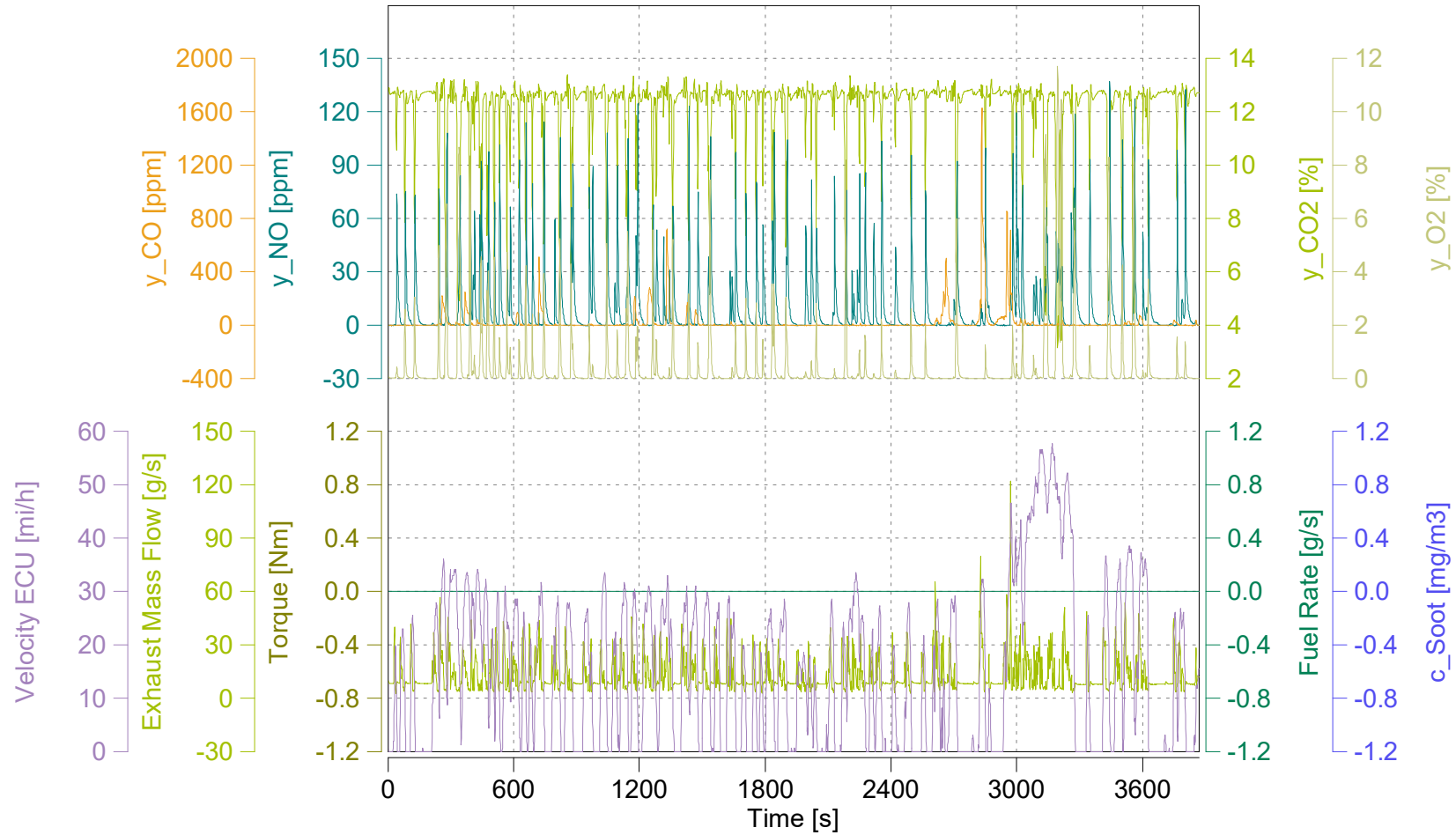
Concerto M.O.V.E., 2019

Trip Duration	3871.00	s	ave THC DC	0.18920	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3871.00	s	ave NMHC DC	0.18542	ppm	BS CO DC	n/a	g/hphr
Trip Distance	16.14	mi	ave CH4 DC	0.00378	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	16.14	mi	ave CO DC	19.25791	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	12.08140	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	11.97050	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.08	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.05	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.02758	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	14.81	mpg_US	tot NMHC DC	0.02551	g			
Trip Fuel Economy US (ac)	14.97	mpg_US	tot CH4 DC	0.00061	g	DS CO2 DC	575.13898	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	1.44654	g	DS CO DC	0.08964	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	9280.62338	g	DS THC DC	0.00171	g/mi
Trip Fuel Economy EU GGE (ac)	14.81	mpg_US	tot NO DC (d)	0.61858	g	DS NMHC DC	0.00158	g/mi
Trip Fuel Economy US GGE (ac)	14.97	mpg_US	tot NO2 DC	0.09494	g	DS CH4 DC	0.00004	g/mi
			tot NOx DC	0.71352	g	DS NO DC (d)	0.03833	g/mi
Trip Av. Eng. Speed	1333.84	rpm	tot Soot	n/a	g	DS NO2 DC	0.00588	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.04422	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	49.24	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	15.01034	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	89.95	deg_F	Trip Velocity Zero	32.13640	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	36.39	%	Trip Velocity Urban	82.22307	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	71.92	m	Trip Velocity Rural	4.64408	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	13.13285	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

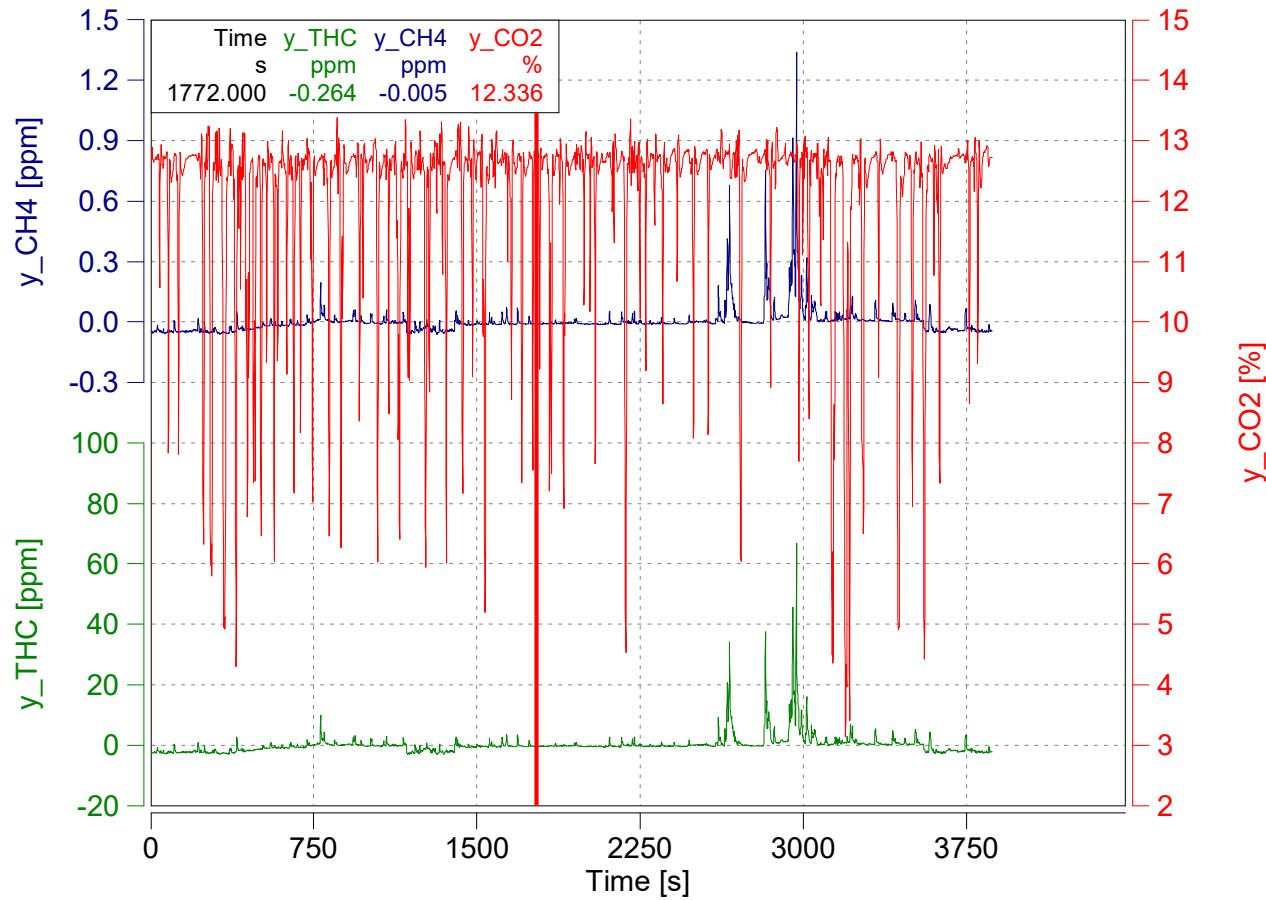
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-4.3
y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Ambient Conditions

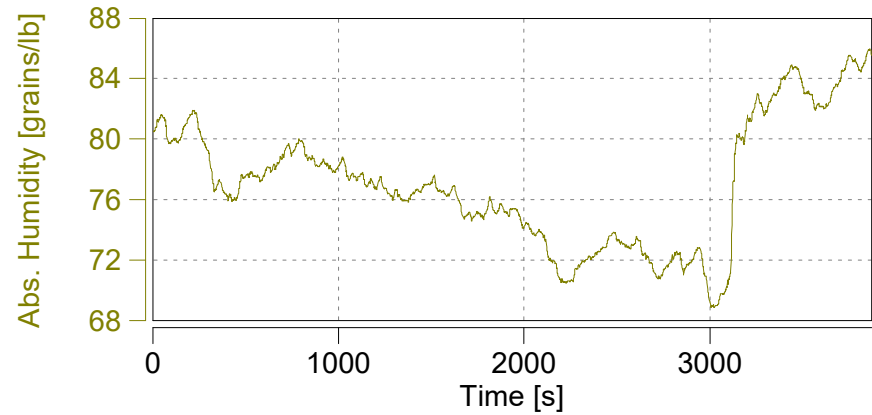
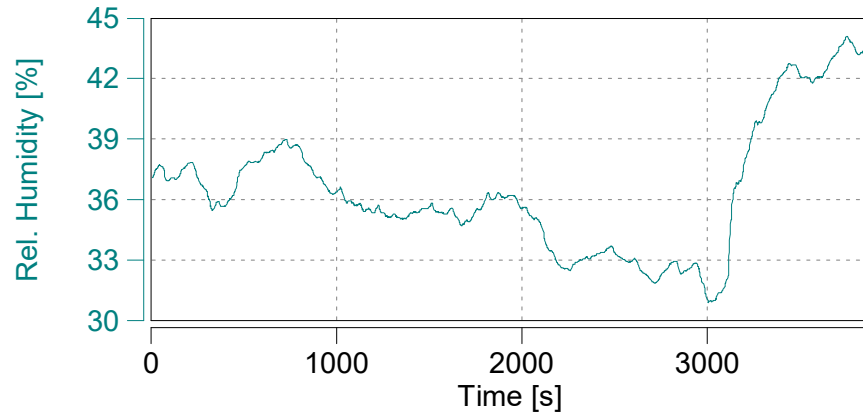
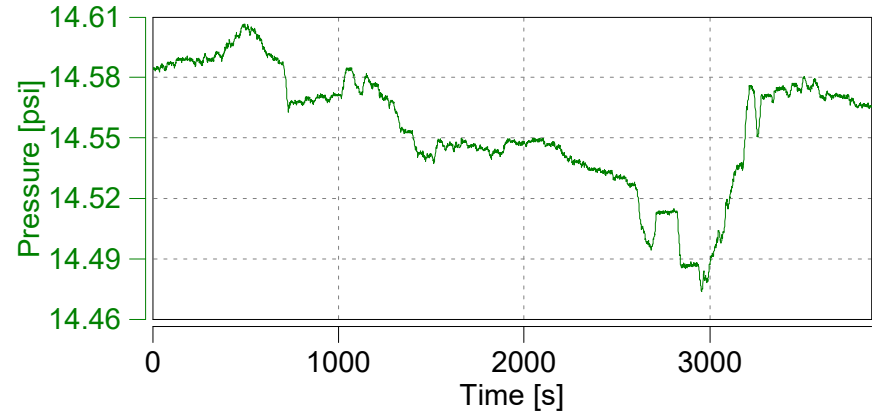
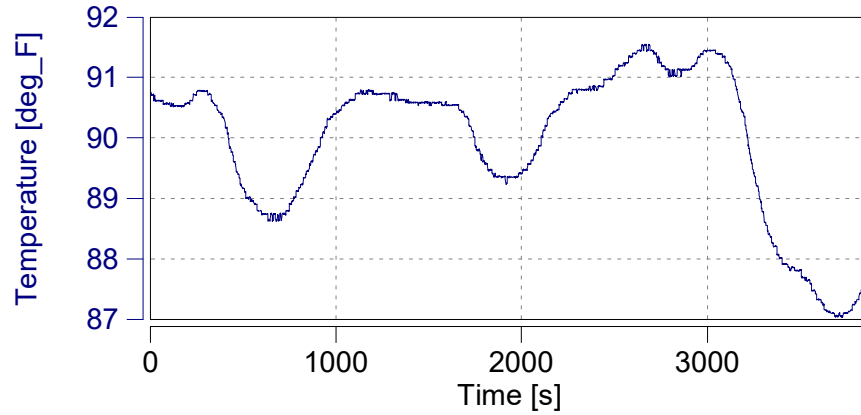
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0

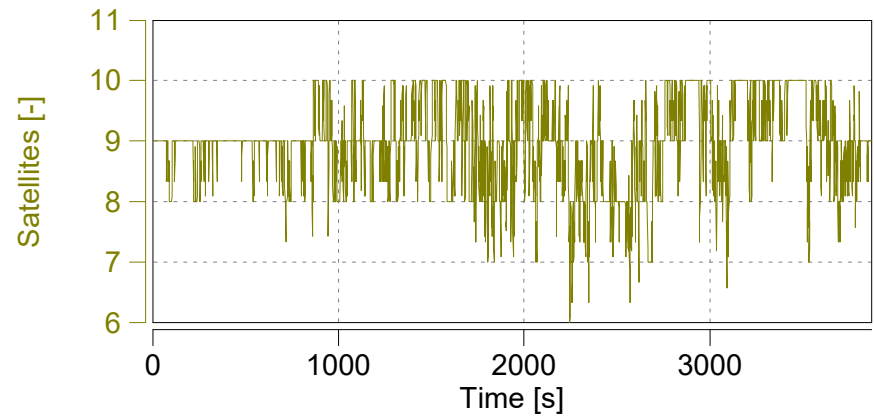
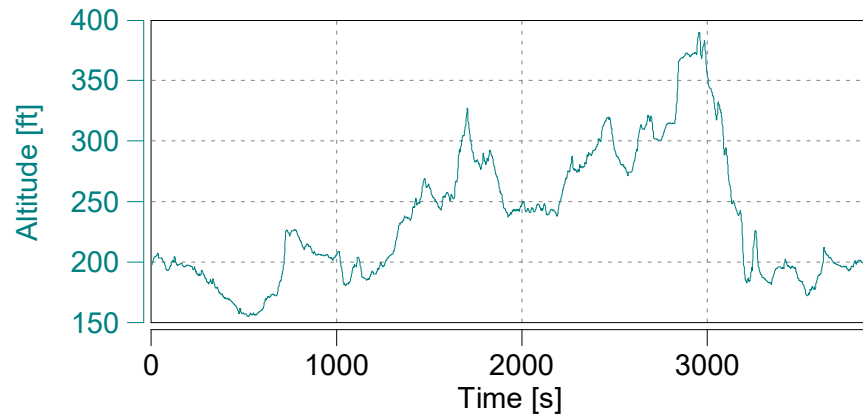
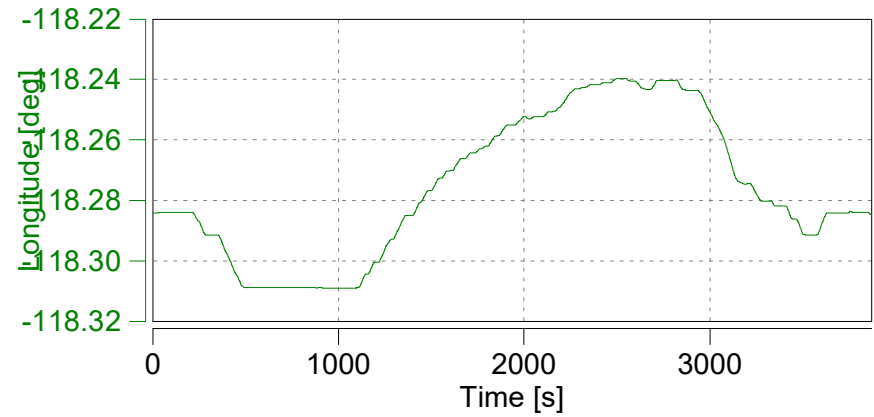
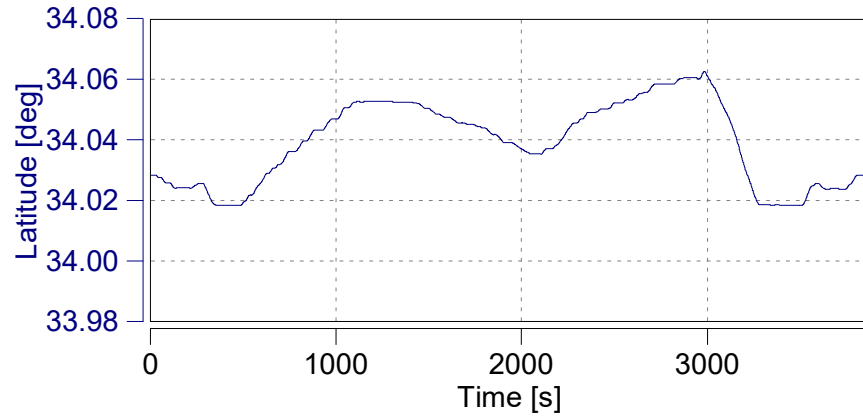


Concerto M.O.V.E., 2019



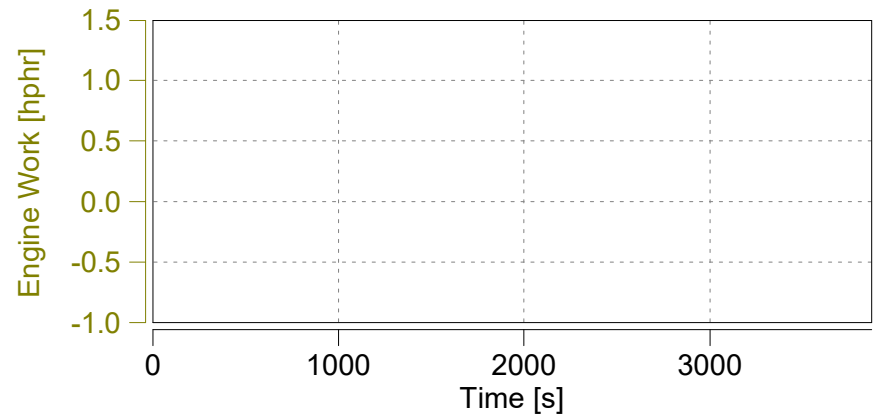
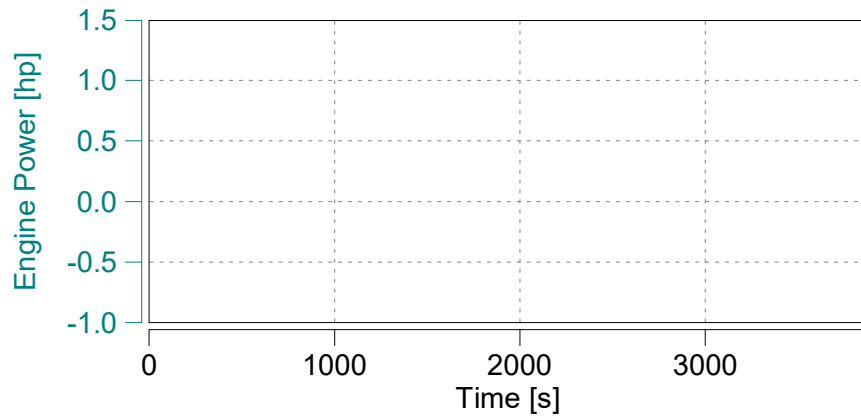
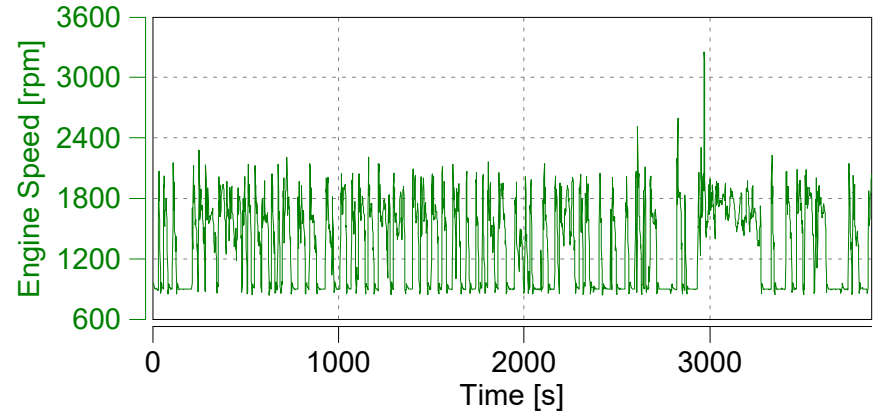
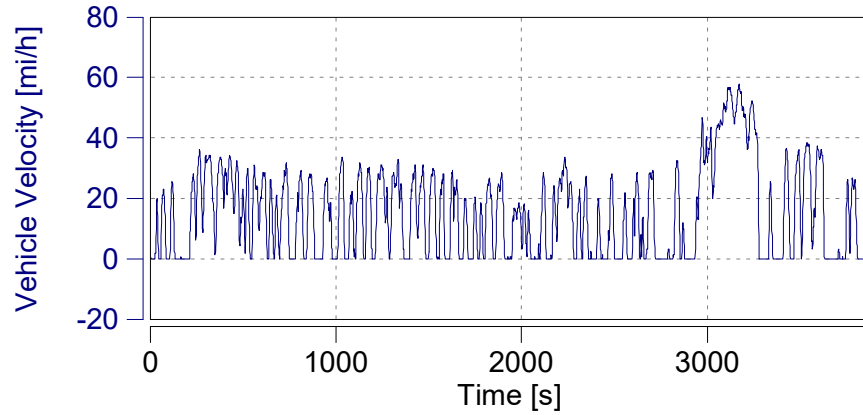
Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



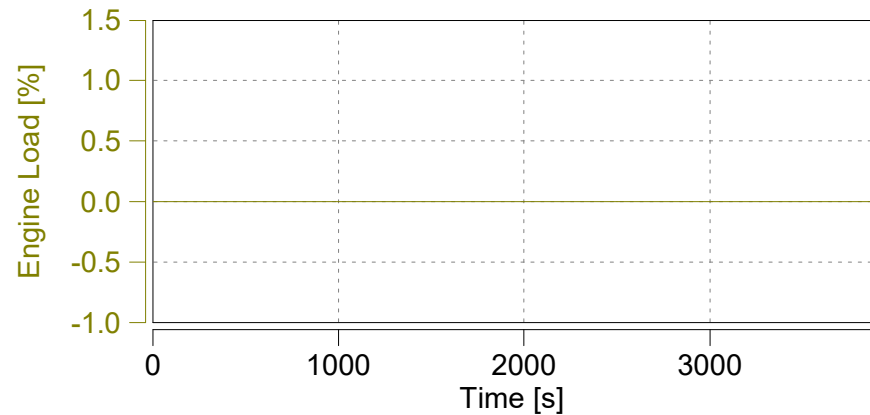
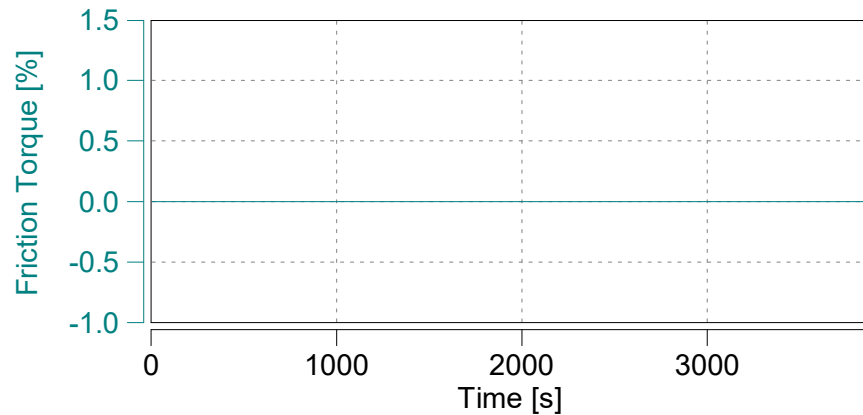
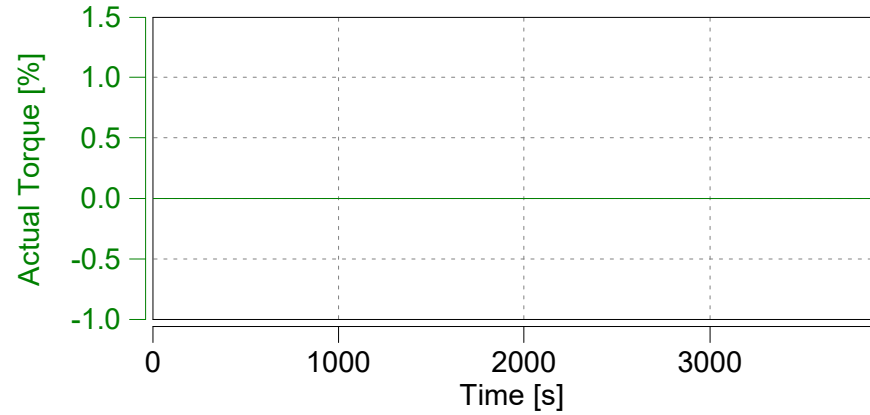
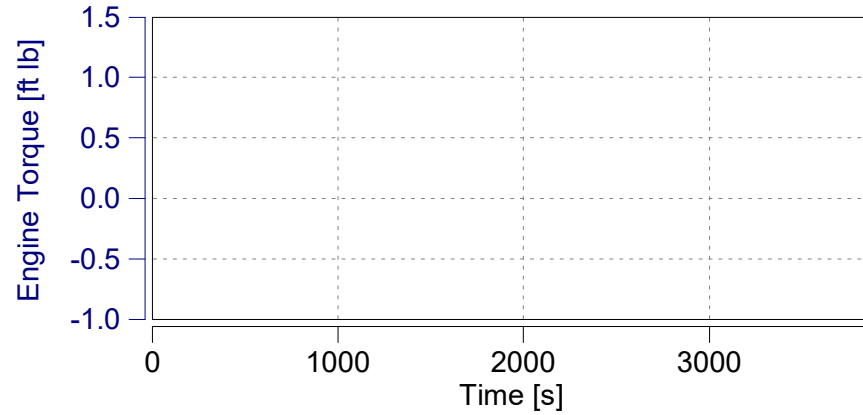
Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (3)

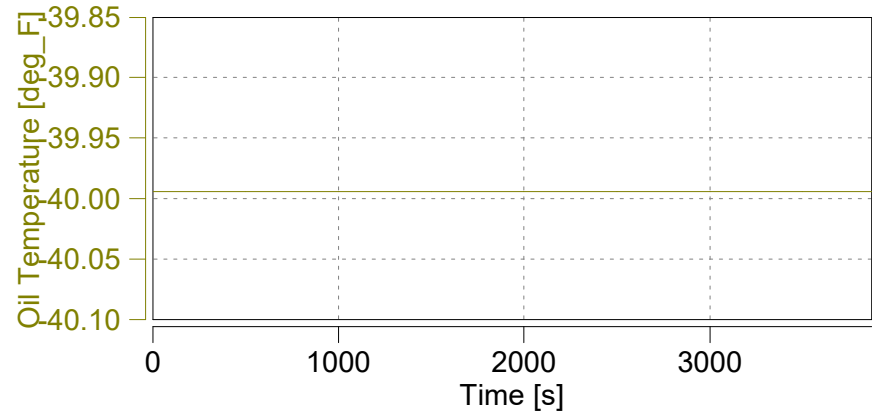
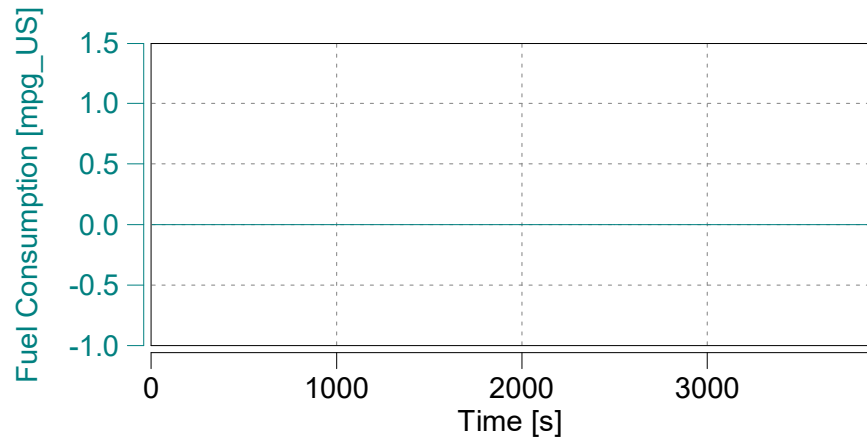
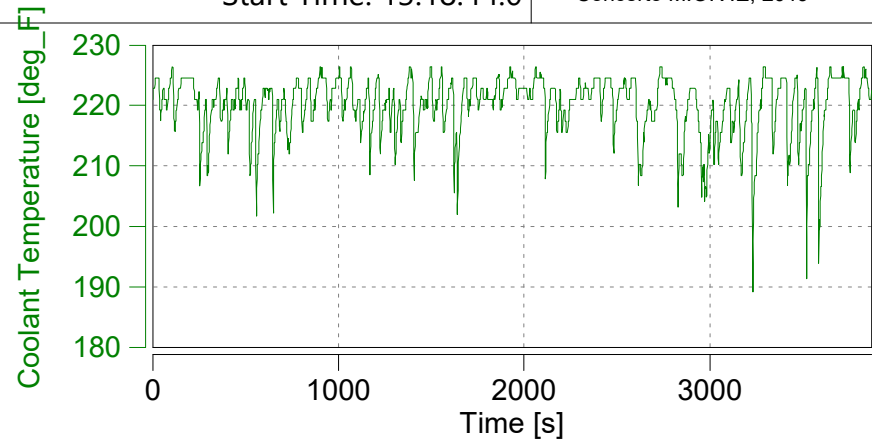
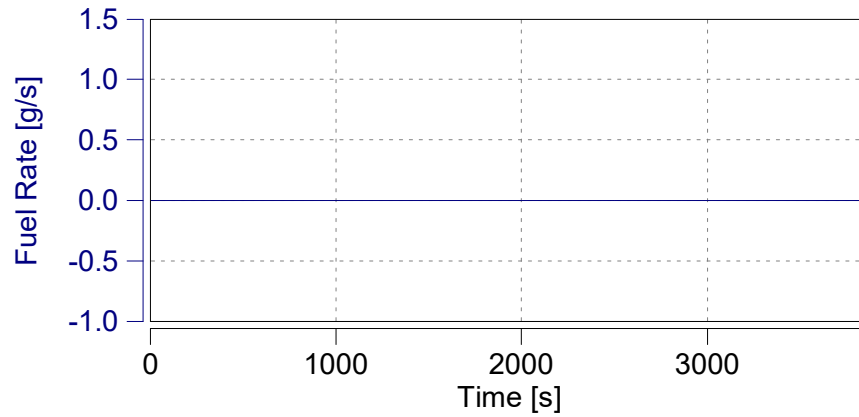
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

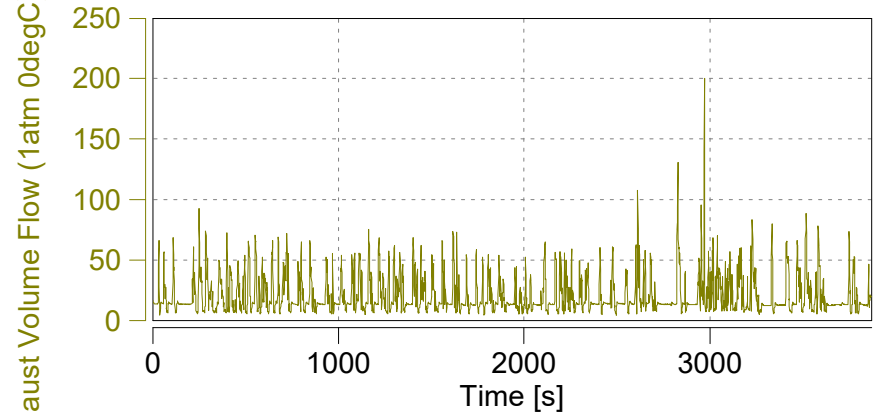
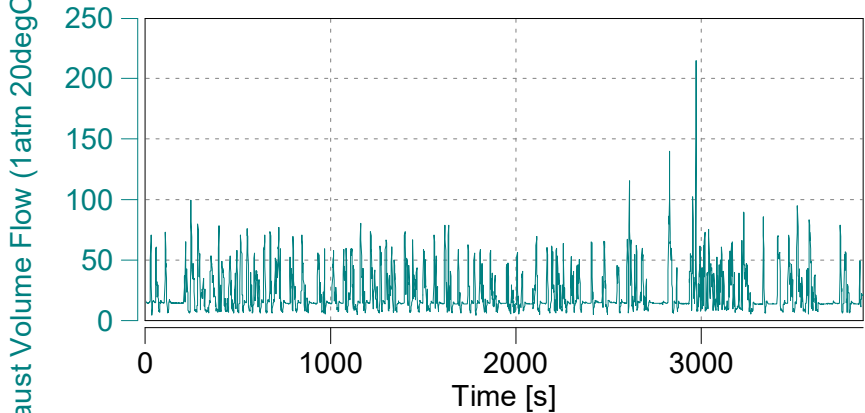
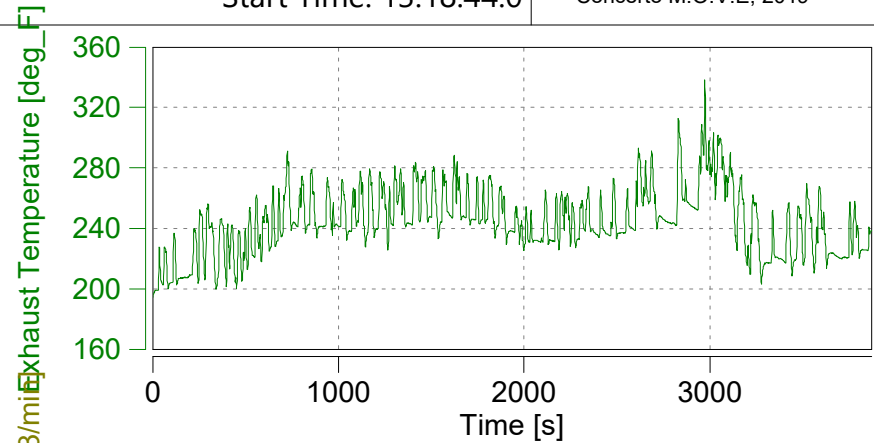
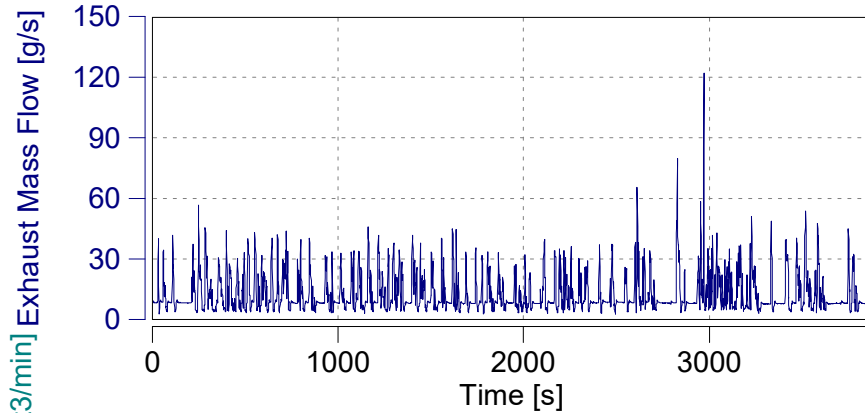
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (2)

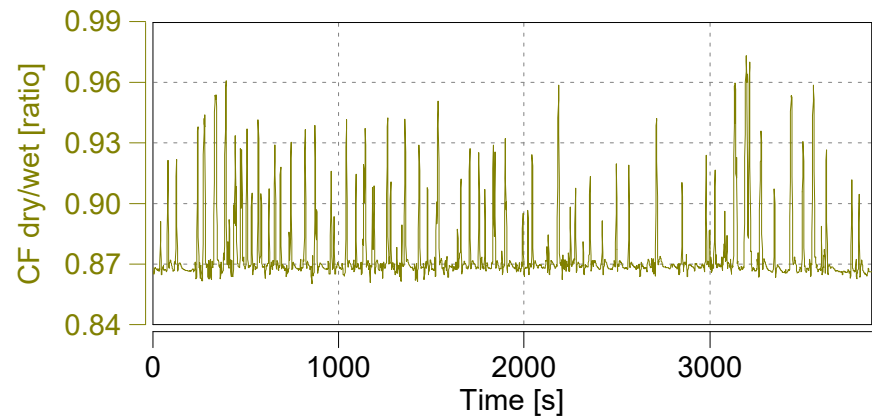
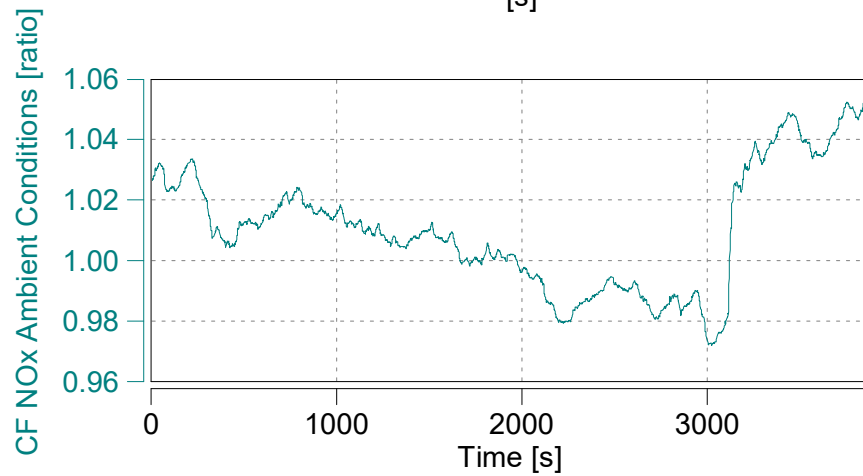
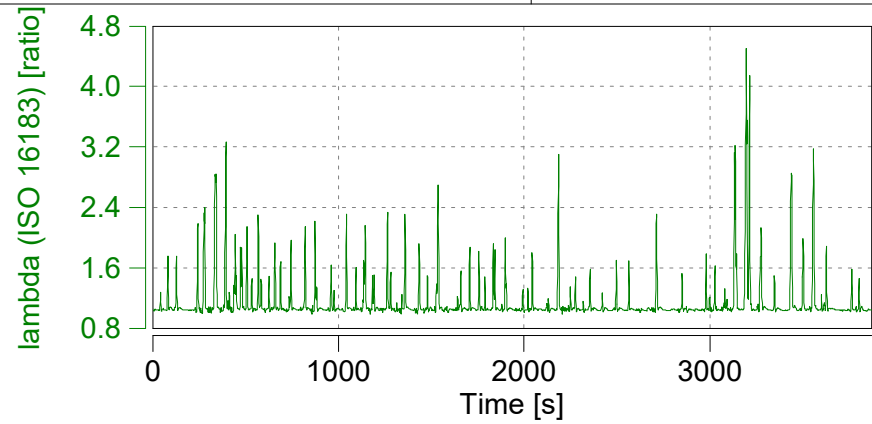
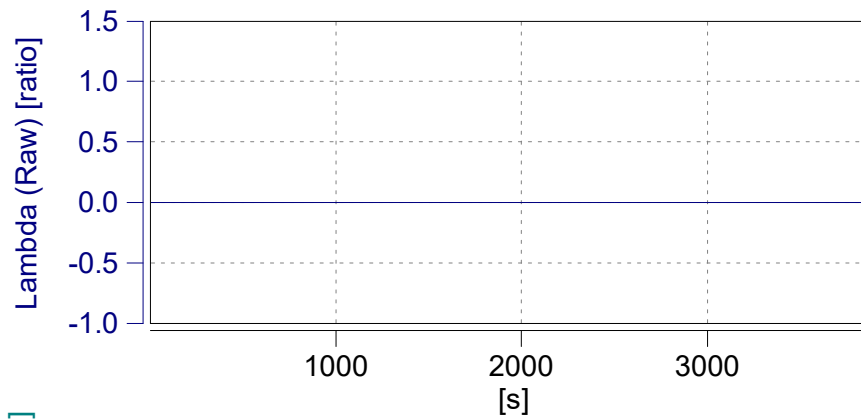
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

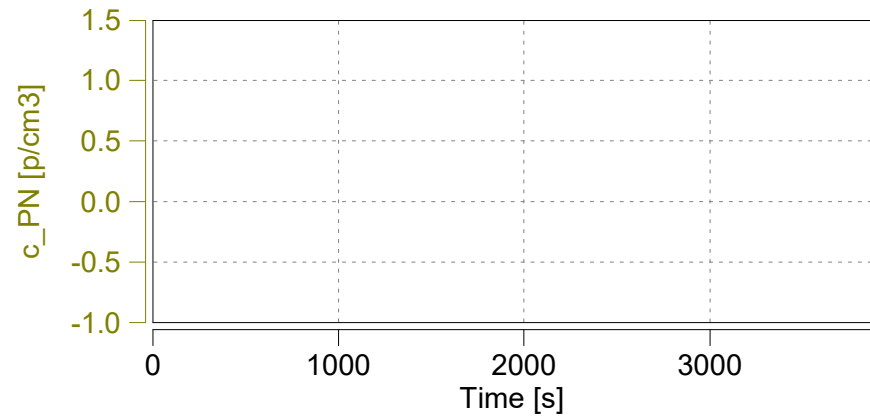
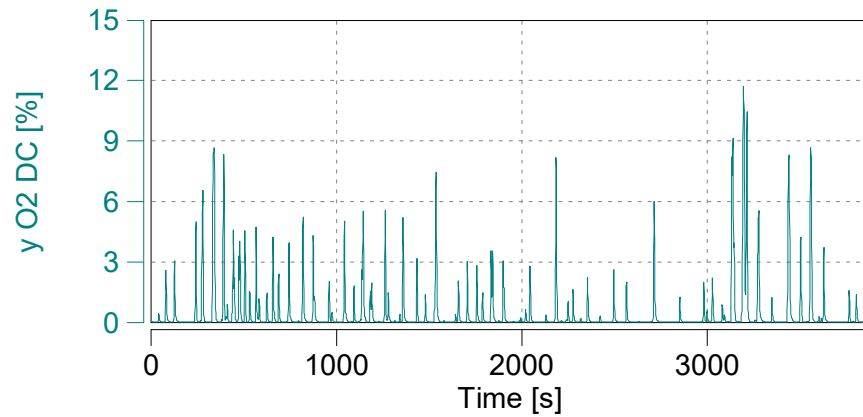
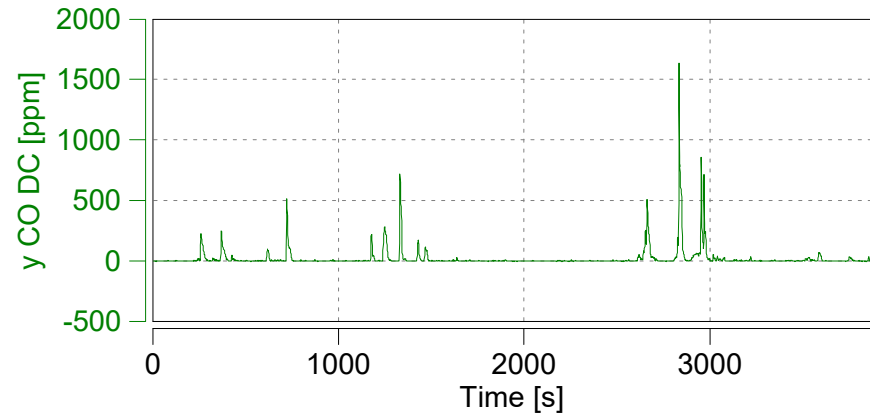
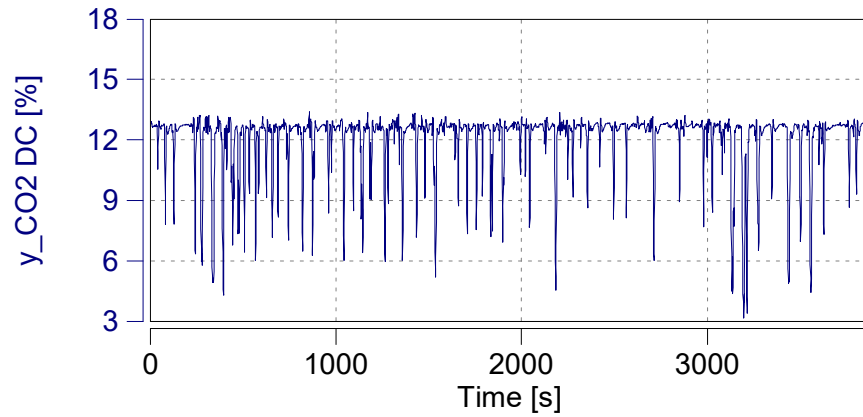
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

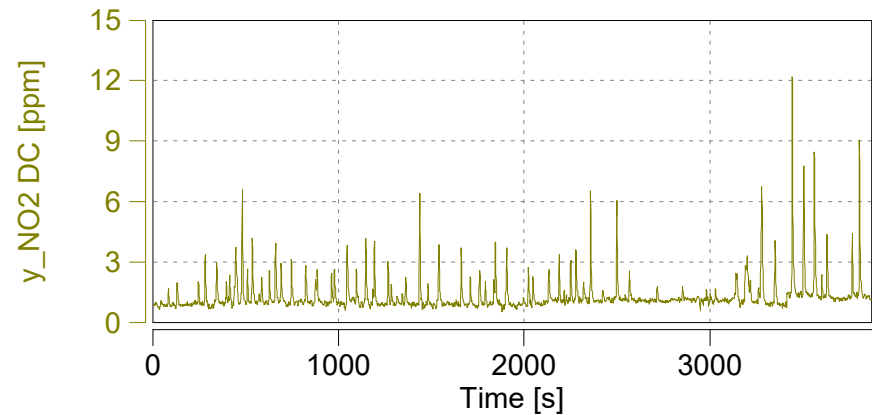
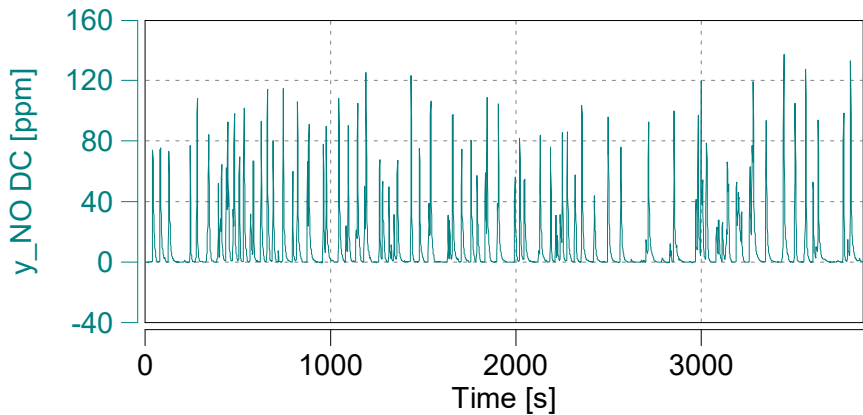
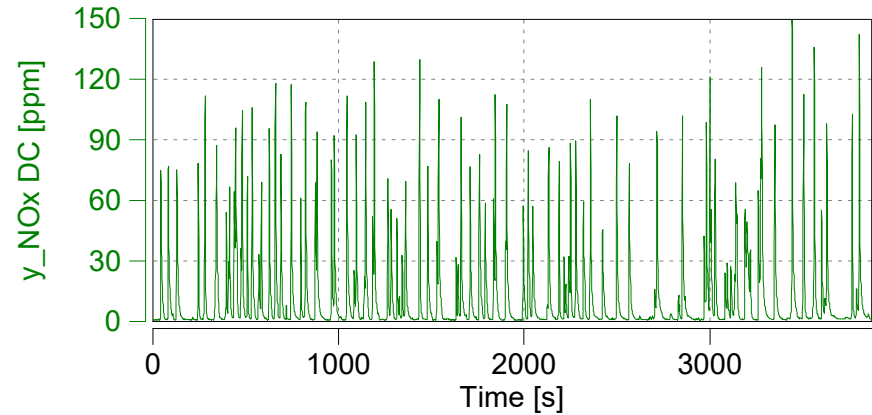
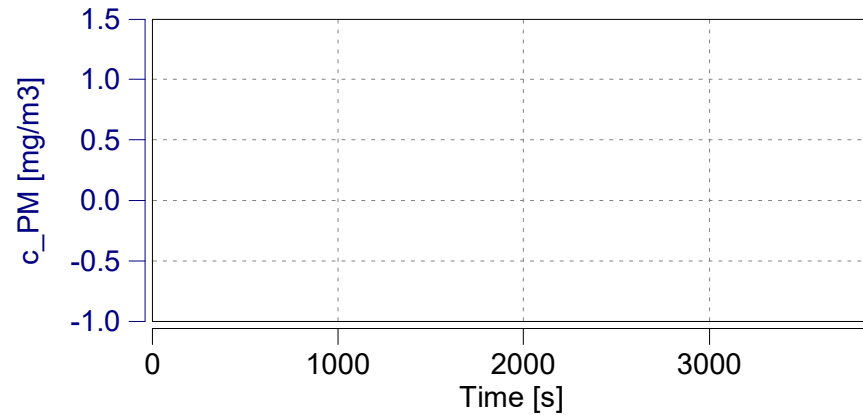
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0

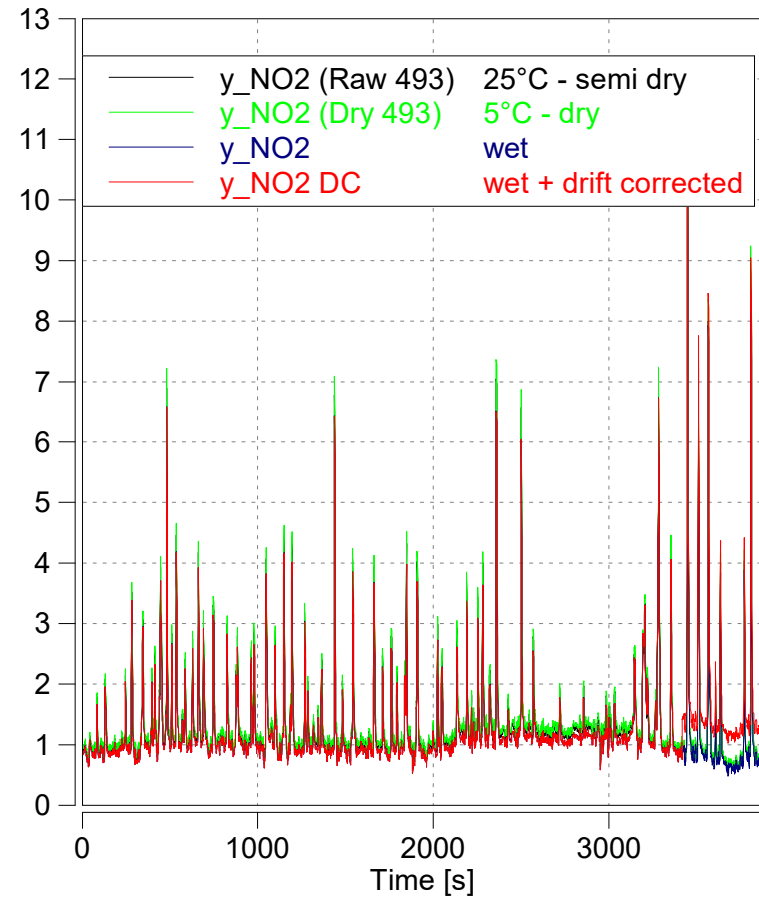
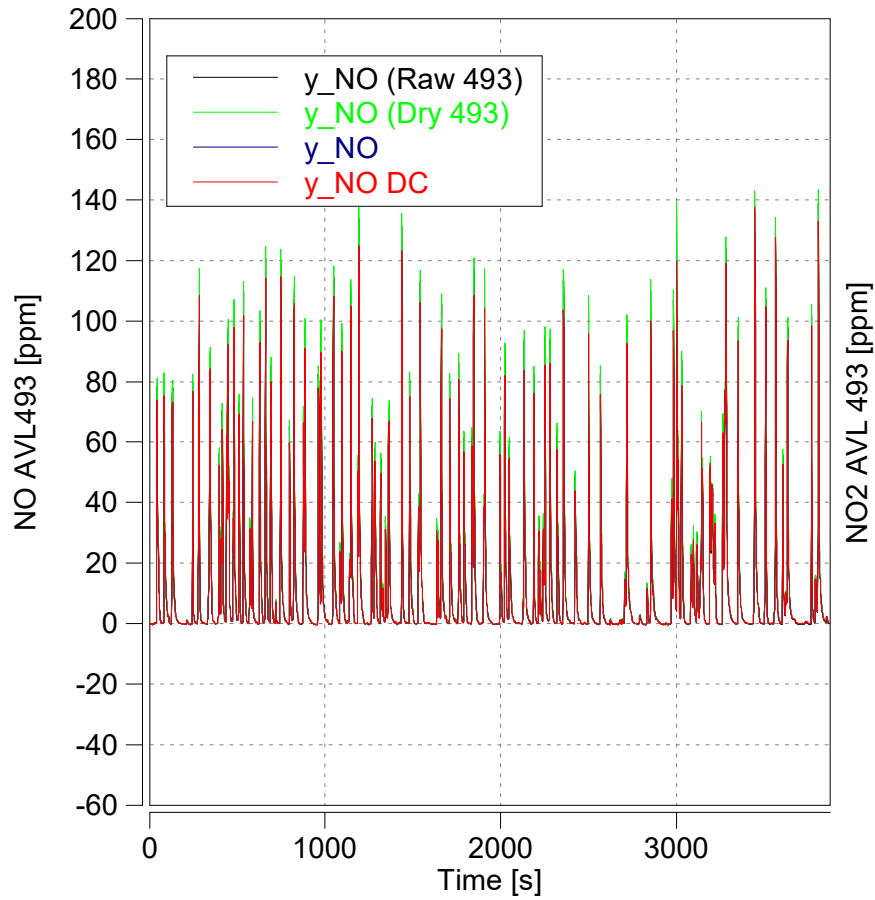


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

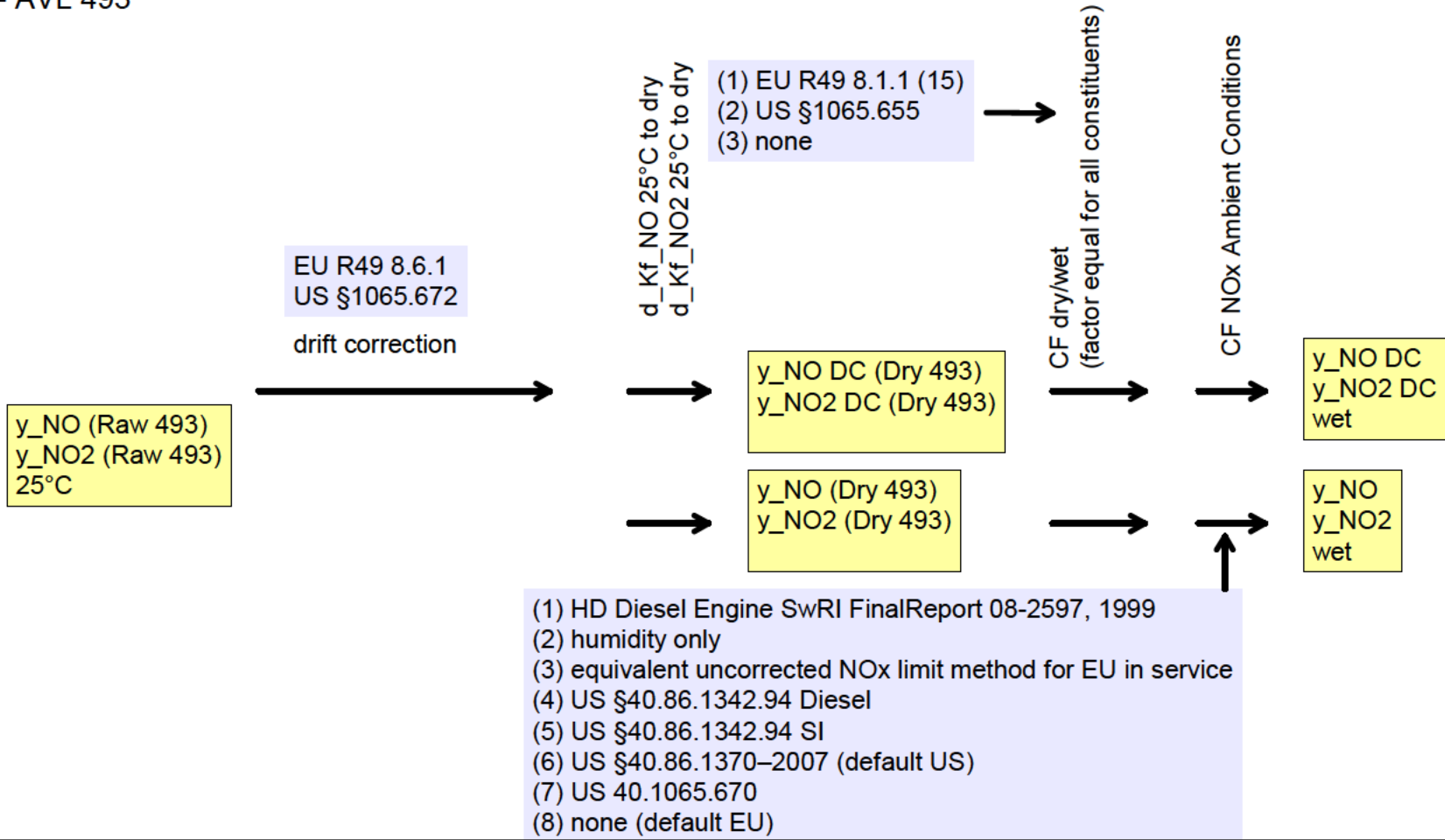


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

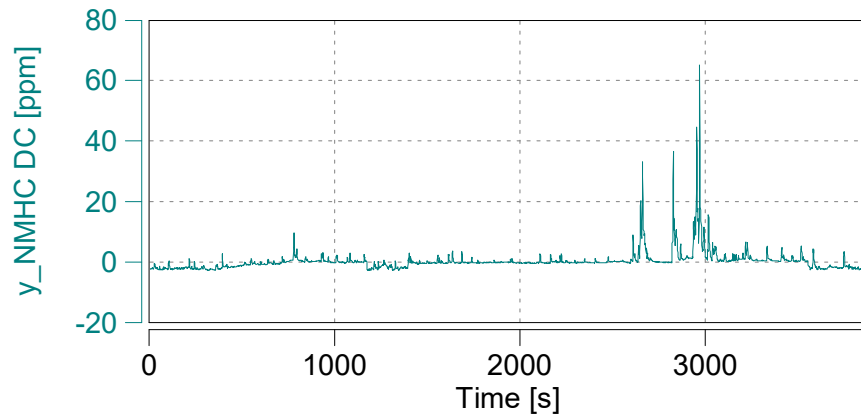
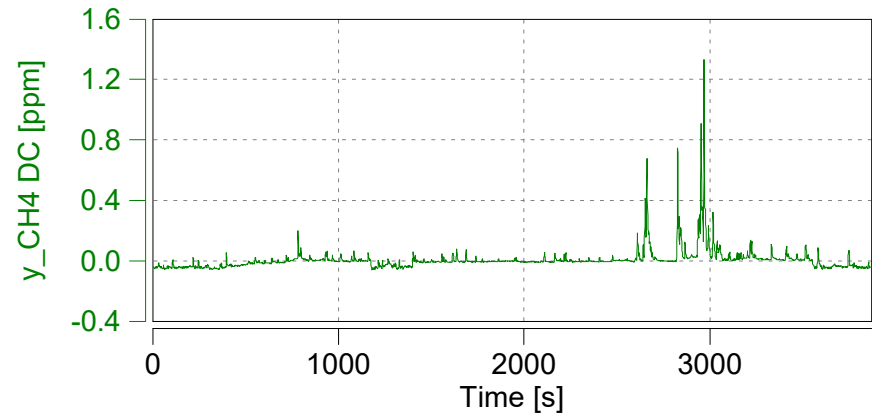
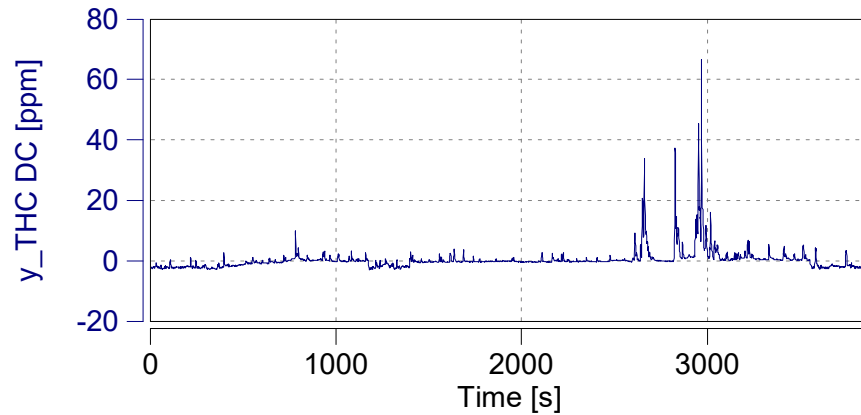
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0

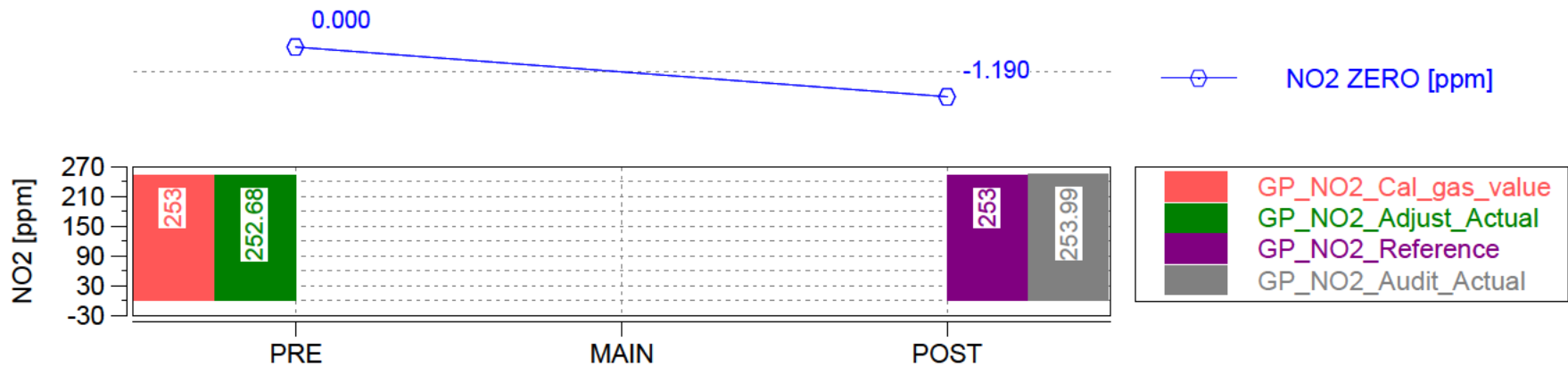
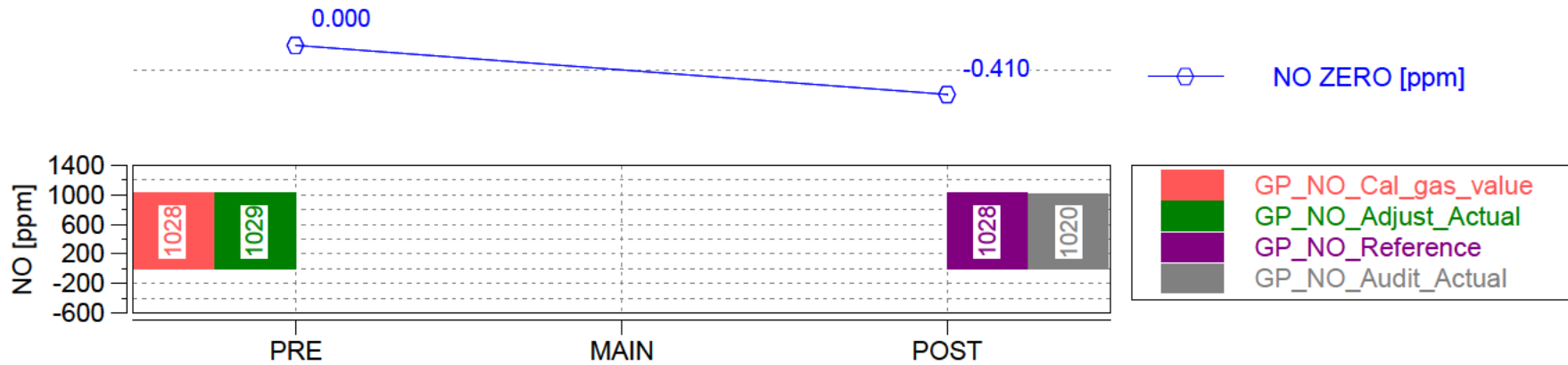


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: CO/CO2 Zero - Span

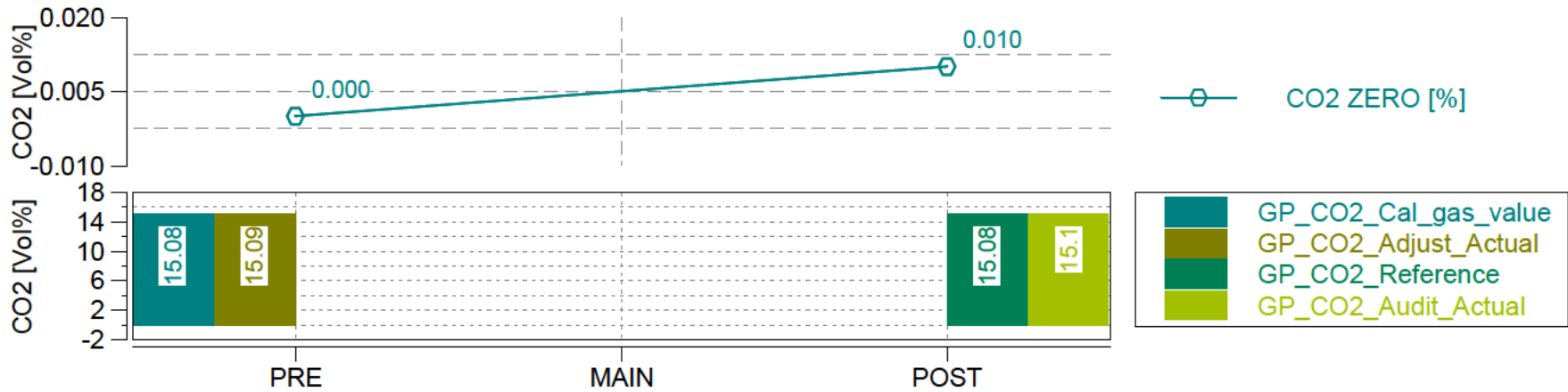
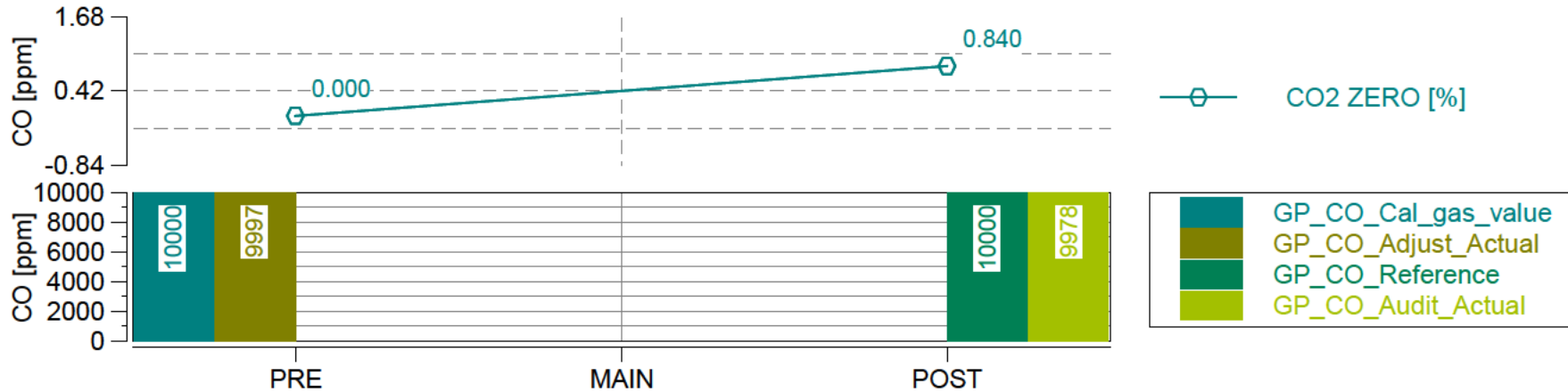
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: THC/CH4 Zero - Span

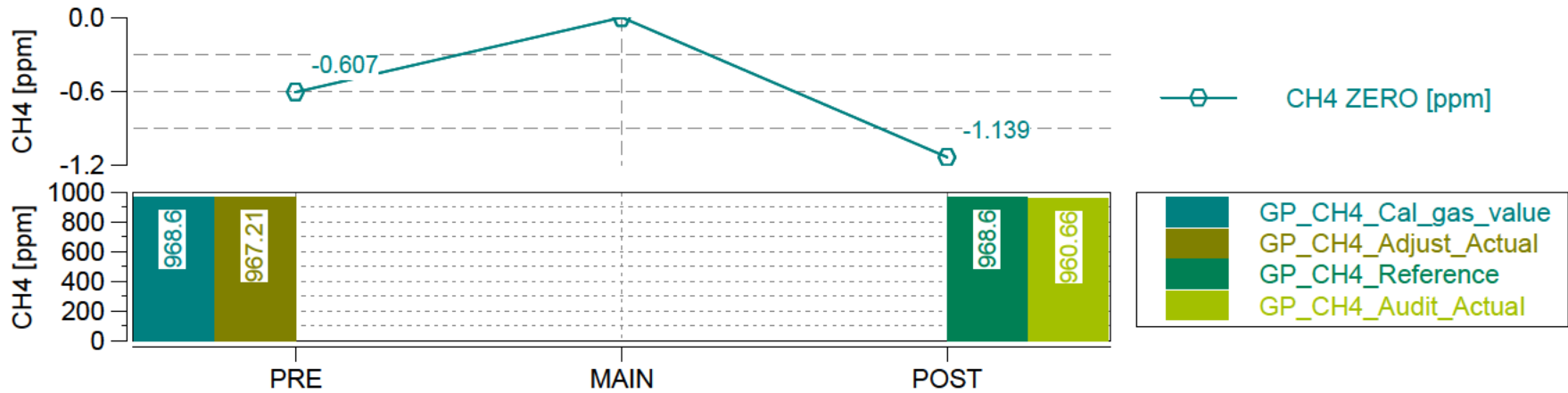
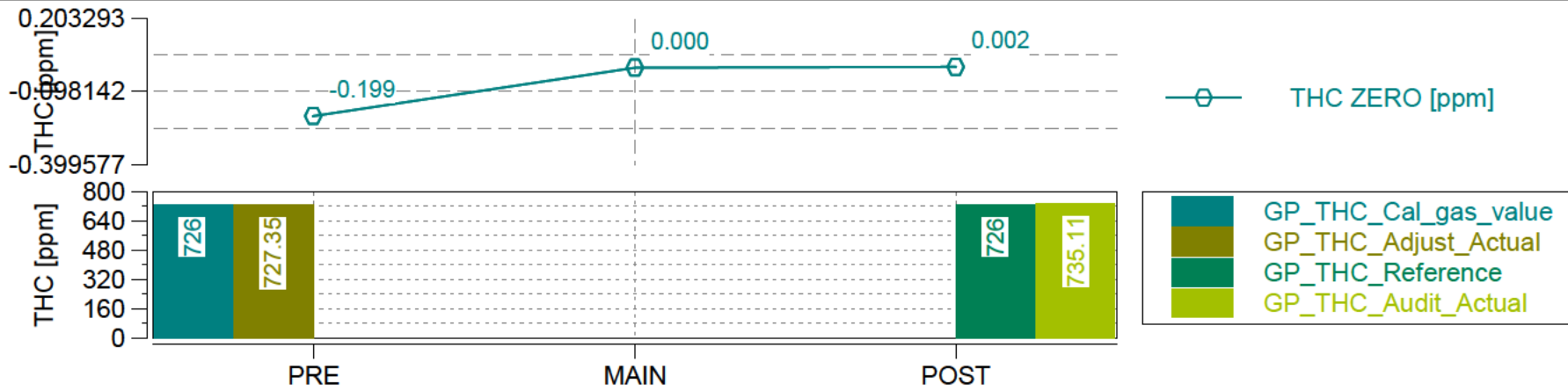
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 09/23/2019
Start Time: 13:18:44.0



Trip Duration	2222.00	s	ave THC	6.66811	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2222.00	s	ave NMHC	6.53475	ppm	BS CO	n/a	g/hphr
Trip Distance	38.60	mi	ave CH4	0.13336	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	38.60	mi	ave CO	64.05449	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.38004	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	3.09225	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.51	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.47	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	31.08	mpg_US	tot THC	0.28170	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	31.45	mpg_US	tot NMHC	0.26058	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.00624	g	DS CO2	273.88603	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	4.81272	g	DS CO	0.12469	g/mi
Trip Fuel Economy EU GGE (ac)	31.08	mpg_US	tot CO2	10571.57468	g	DS THC	0.00730	g/mi
Trip Fuel Economy US GGE (ac)	31.45	mpg_US	tot NO (d)	0.15031	g	DS NMHC	0.00675	g/mi
Trip Av. Eng. Speed	1824.40	rpm	tot NO2	-0.01984	g	DS CH4	0.00016	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.13047	g	DS NO (d)	0.00389	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	-0.00051	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00338	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	55.14	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	77.53	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	58.75	%	Trip Av. Veh. Speed	62.53727	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	16.53	m	Trip Velocity Zero	0.18002	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	0.36069	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	0.00000	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	99.63931	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 09/23/2019

Start Time: 13:18:44.0



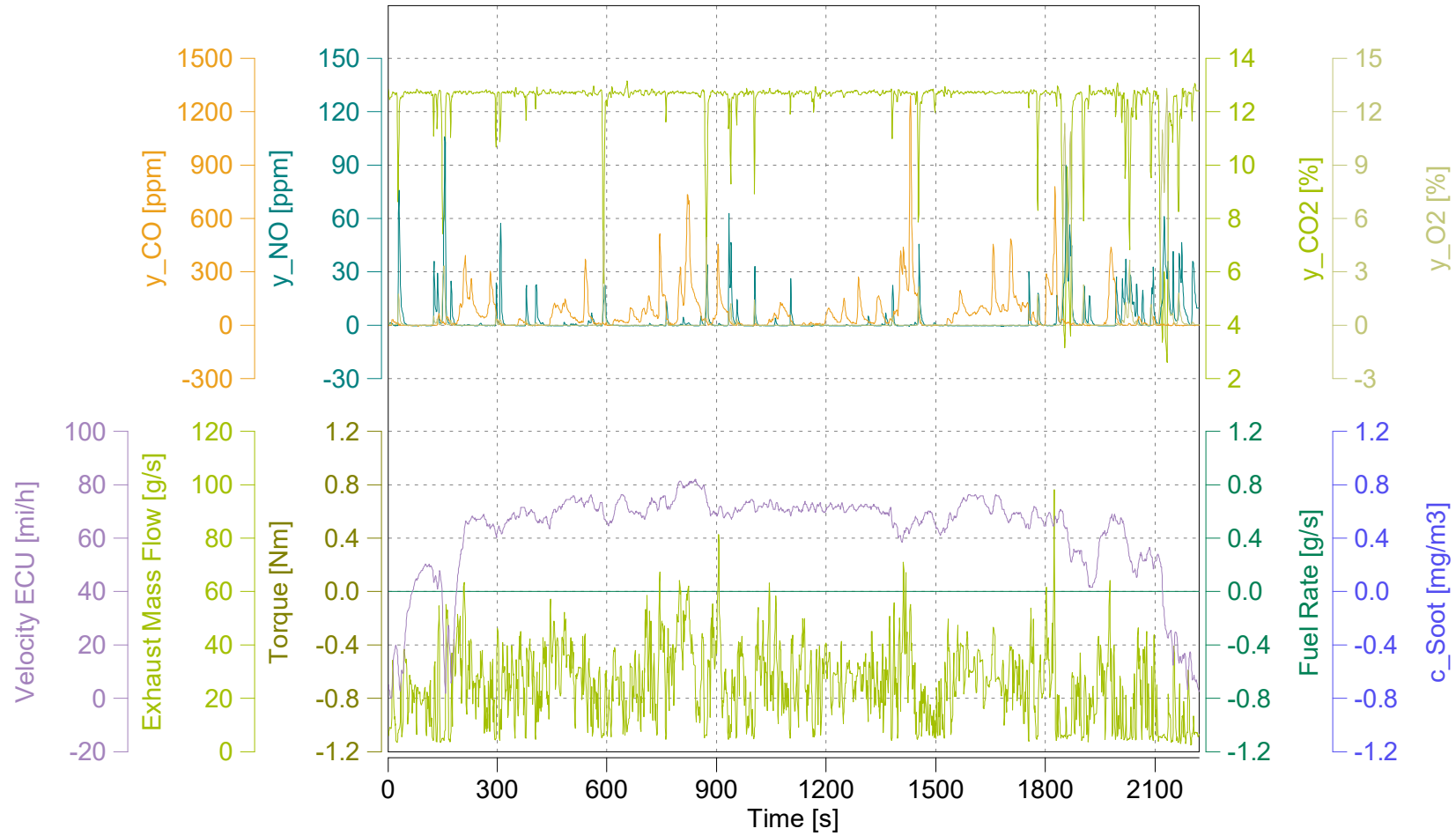
Concerto M.O.V.E., 2019

Trip Duration	2222.00	s	ave THC DC	6.71812	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2222.00	s	ave NMHC DC	6.58376	ppm	BS CO DC	n/a	g/hphr
Trip Distance	38.60	mi	ave CH4 DC	0.13436	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	38.60	mi	ave CO DC	64.13200	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	12.36774	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	3.10200	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.51	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.47	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.28236	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	31.08	mpg_US	tot NMHC DC	0.26119	g			
Trip Fuel Economy US (ac)	31.45	mpg_US	tot CH4 DC	0.00626	g	DS CO2 DC	273.61387	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	4.81854	g	DS CO DC	0.12484	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	10561.06963	g	DS THC DC	0.00732	g/mi
Trip Fuel Economy EU GGE (ac)	31.08	mpg_US	tot NO DC (d)	0.15073	g	DS NMHC DC	0.00677	g/mi
Trip Fuel Economy US GGE (ac)	31.45	mpg_US	tot NO2 DC	-0.01982	g	DS CH4 DC	0.00016	g/mi
			tot NOx DC	0.13092	g	DS NO DC (d)	0.00391	g/mi
Trip Av. Eng. Speed	1824.40	rpm	tot Soot	n/a	g	DS NO2 DC	-0.00051	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.00339	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	55.14	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	62.53727	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	77.53	deg_F	Trip Velocity Zero	0.18002	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	58.75	%	Trip Velocity Urban	0.36069	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	16.53	m	Trip Velocity Rural	0.00000	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	99.63931	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

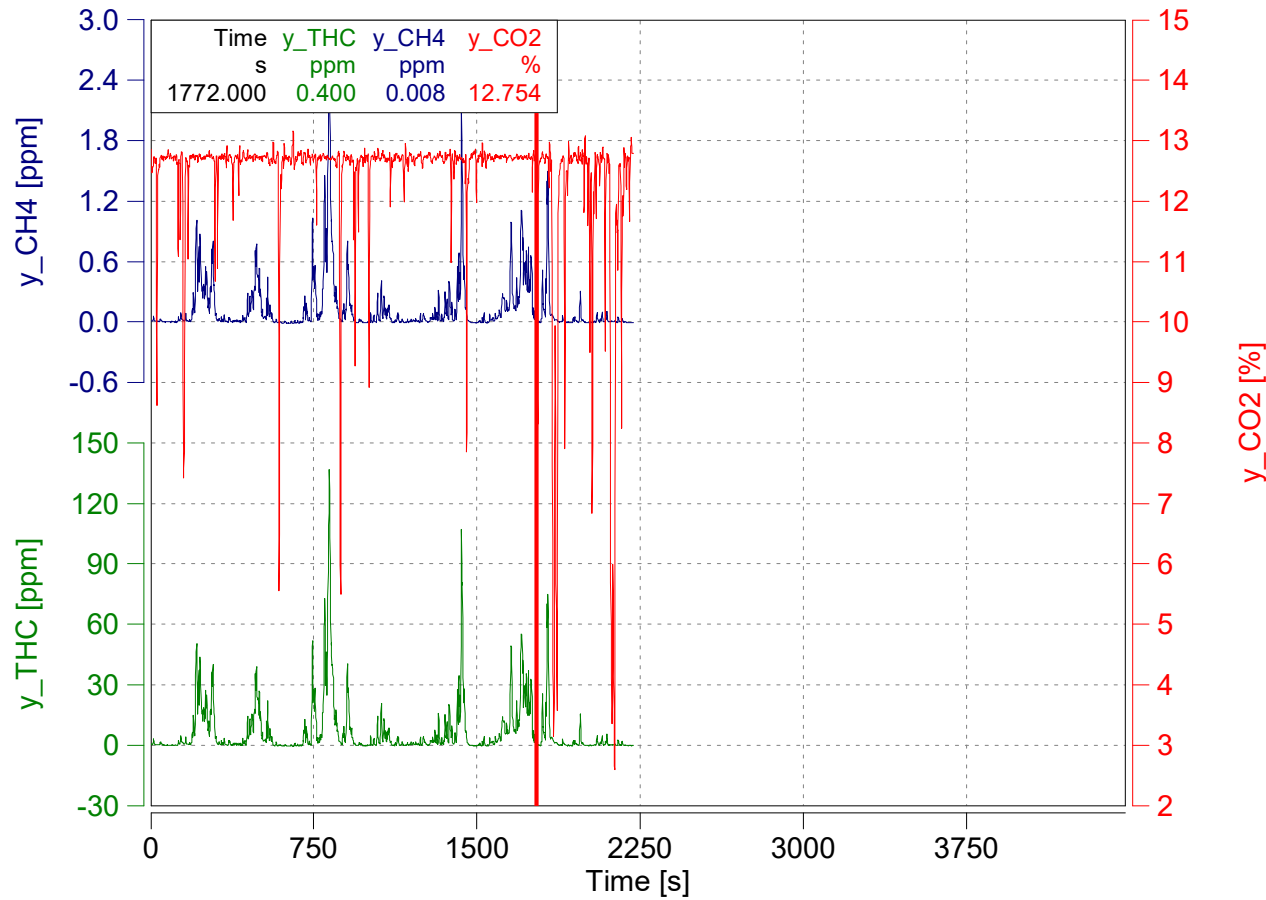
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 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

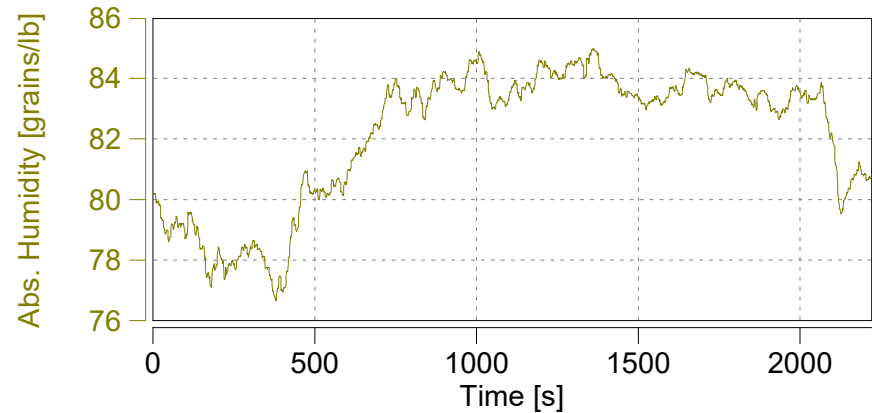
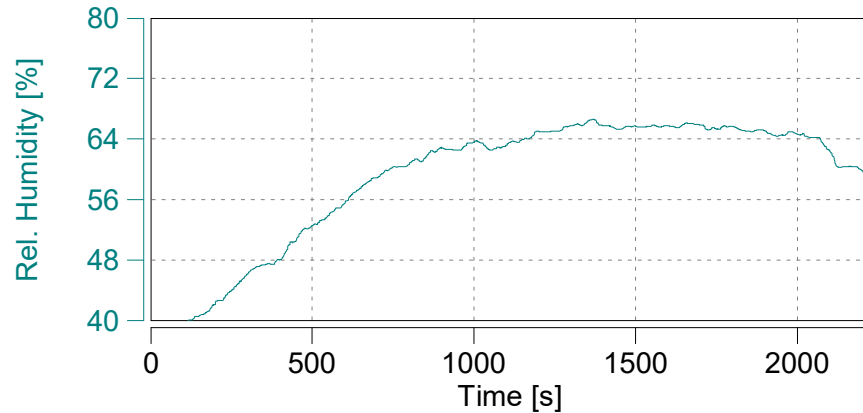
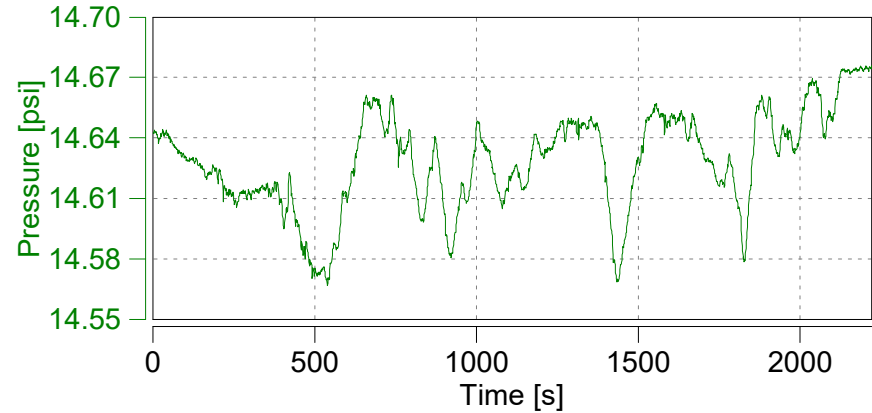
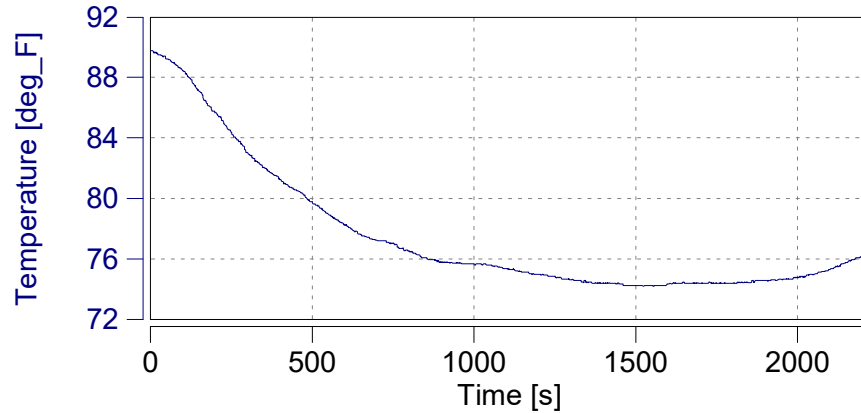
y_THC	s	-4.3
y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

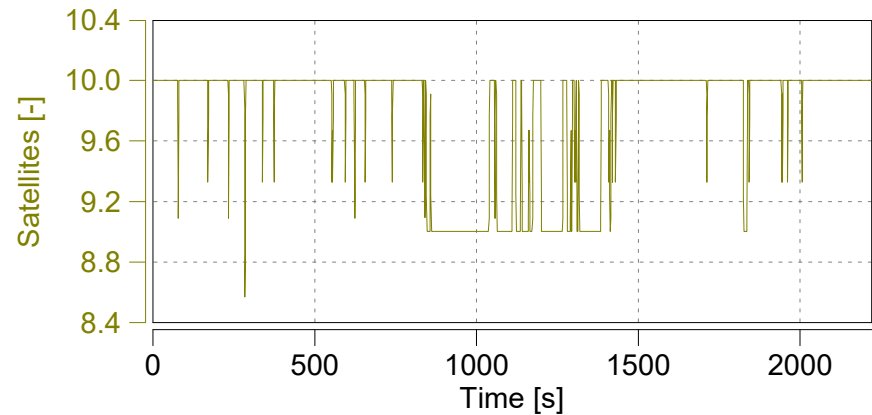
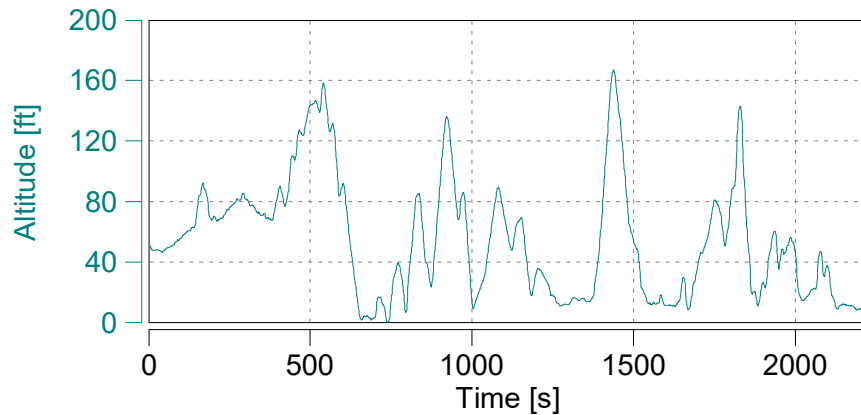
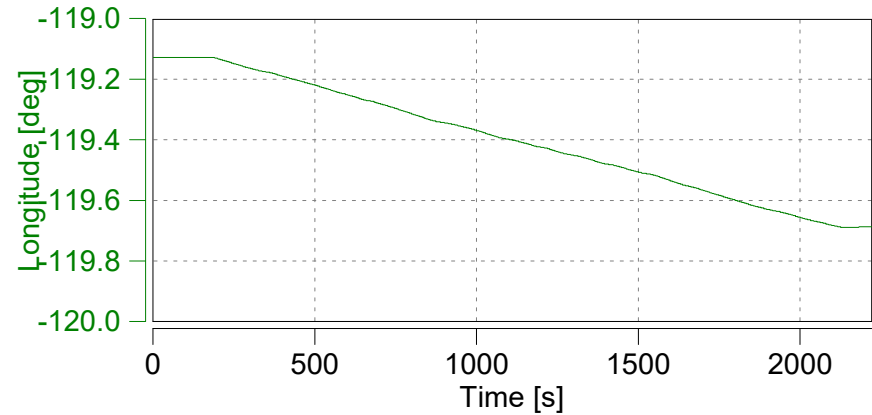
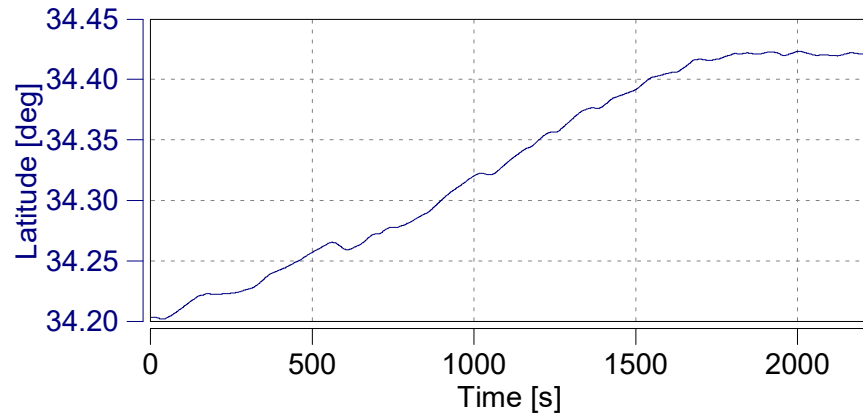
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



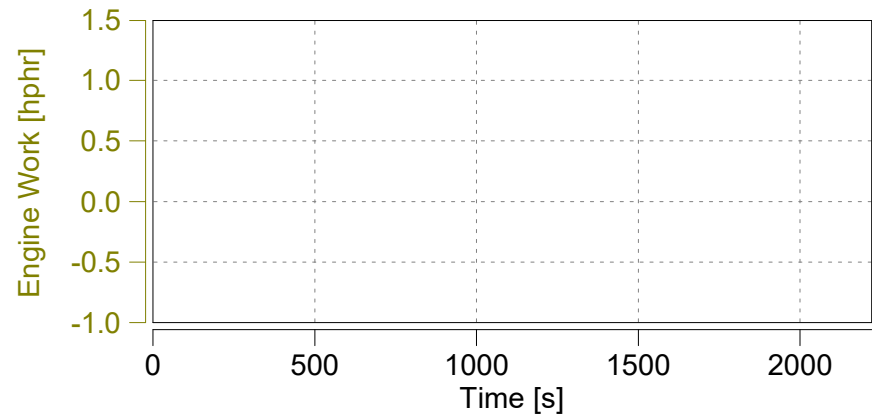
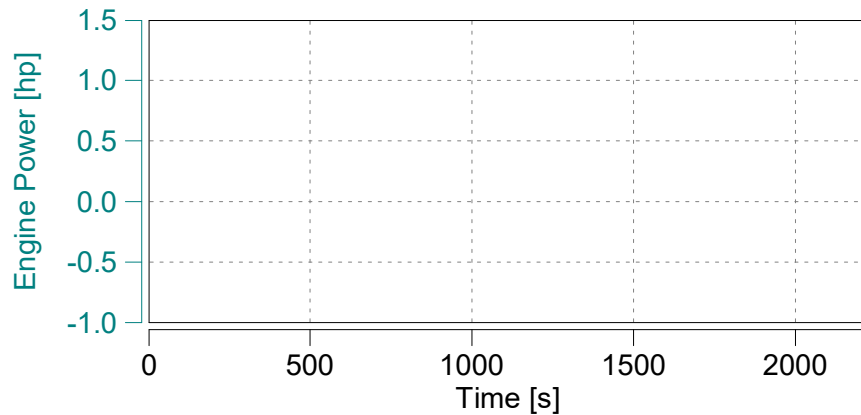
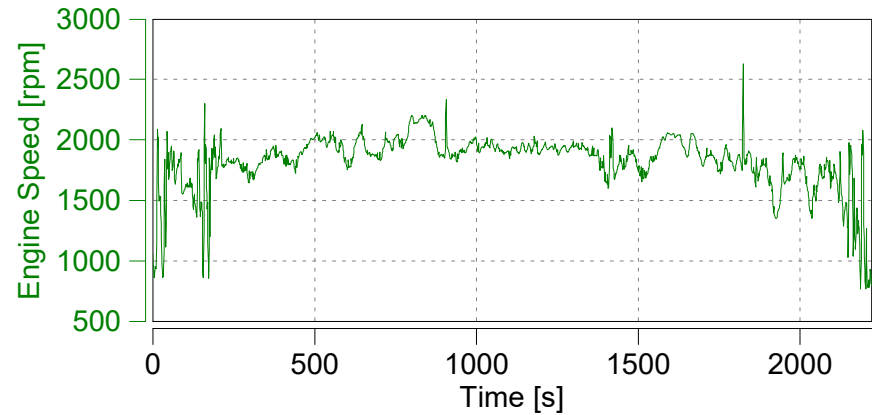
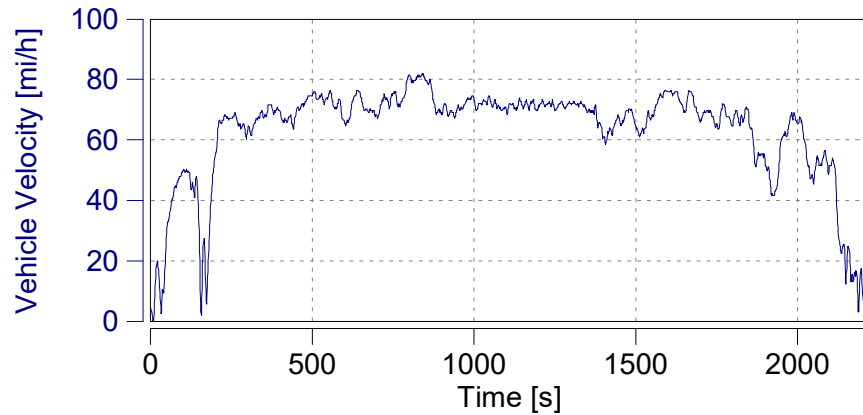
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



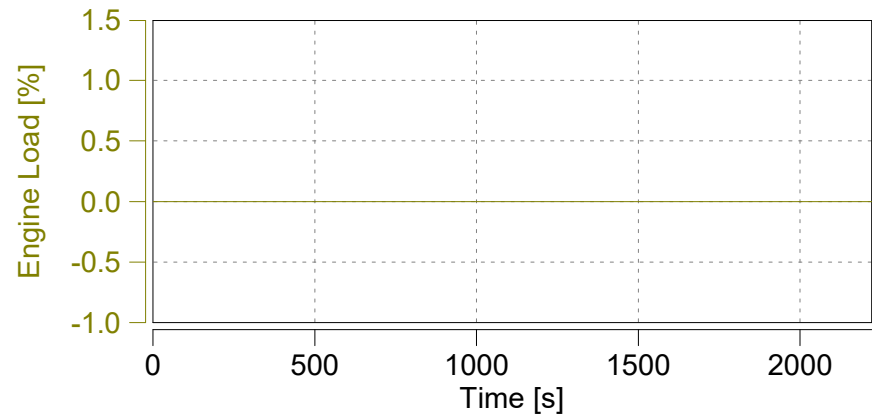
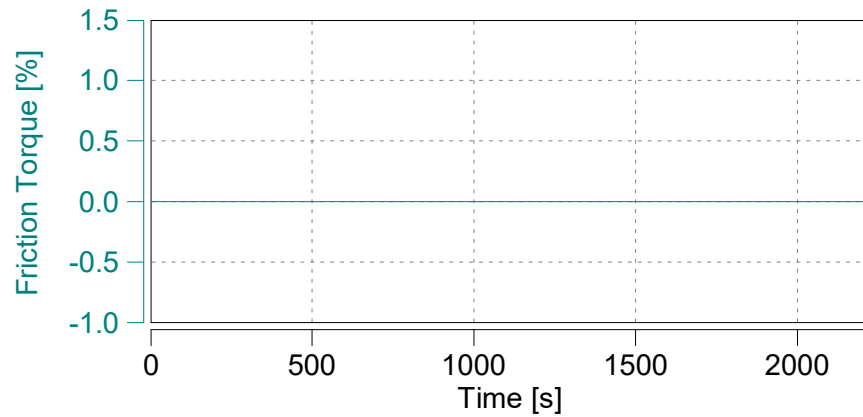
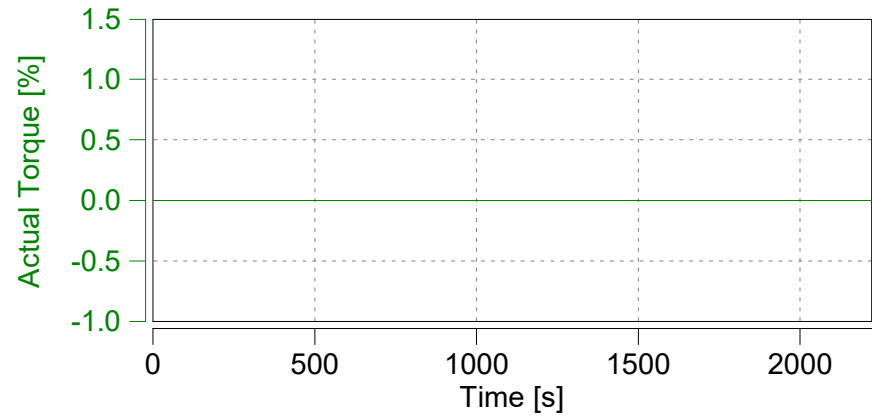
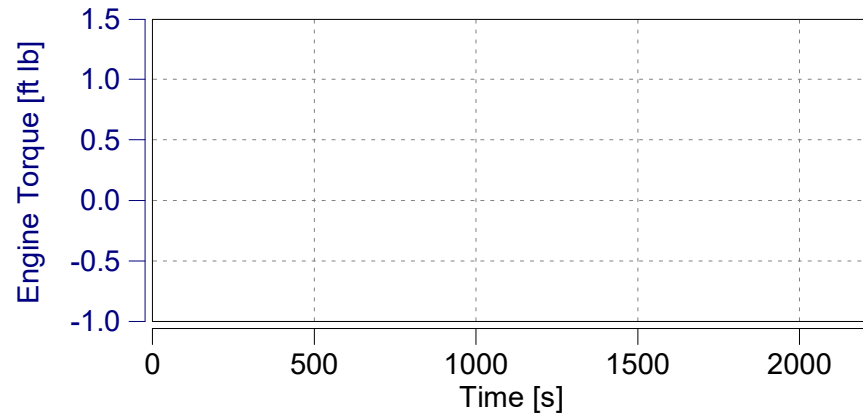
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



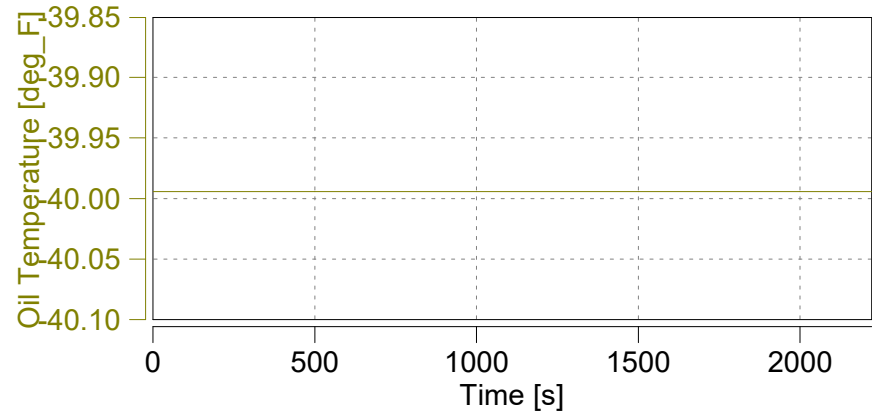
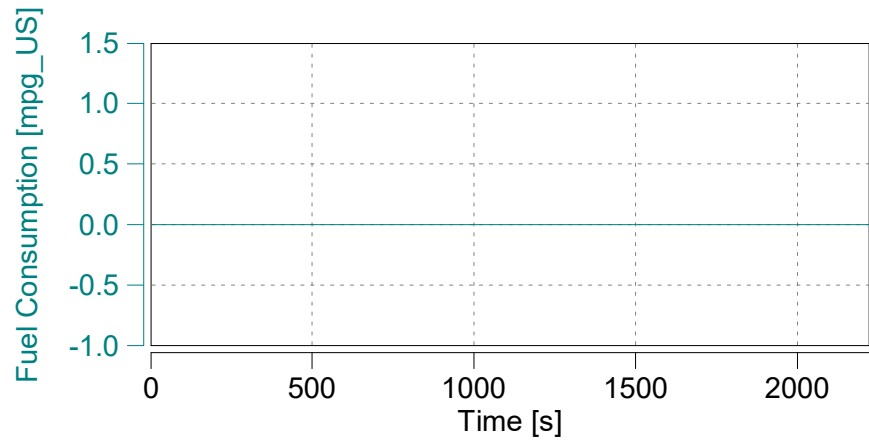
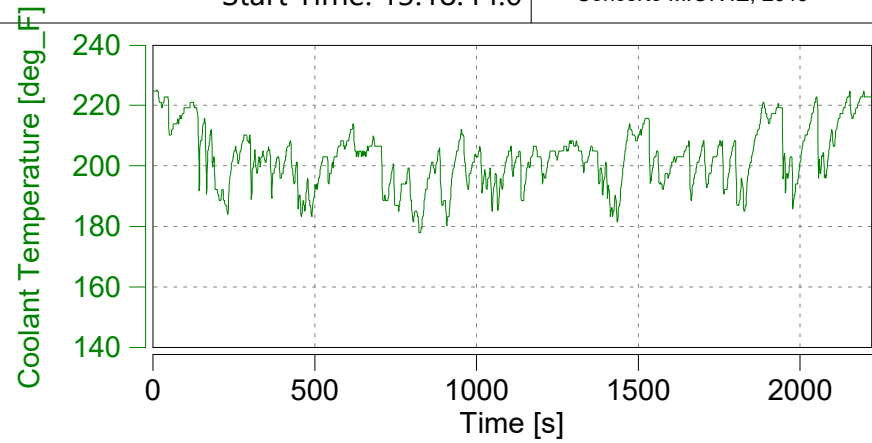
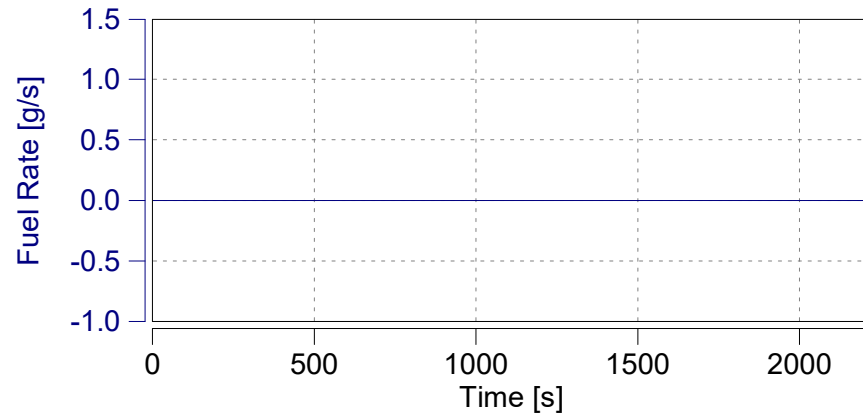
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

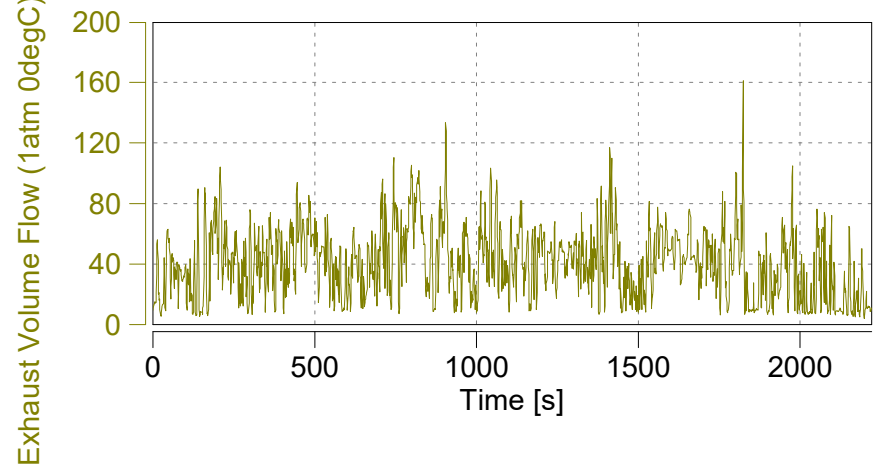
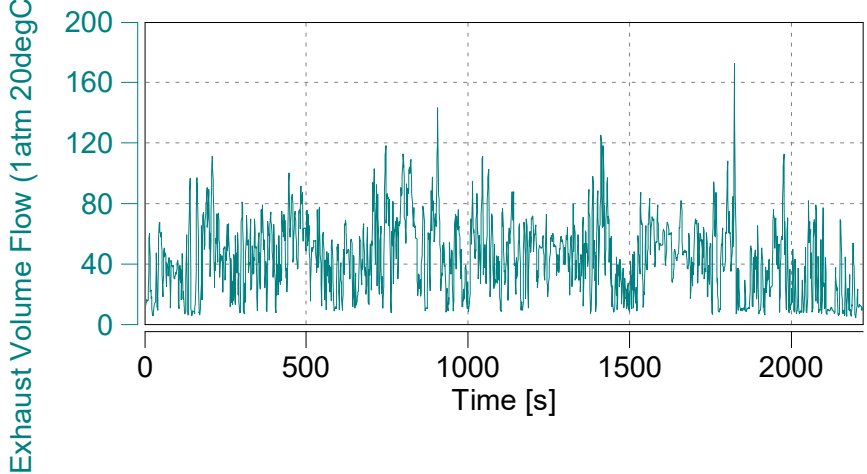
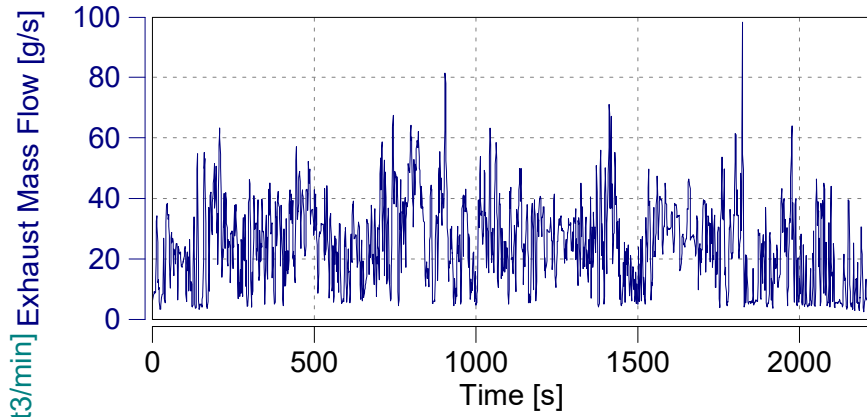
'Highway'

Start Date: 09/23/2019

Start Time: 13:18:44.0

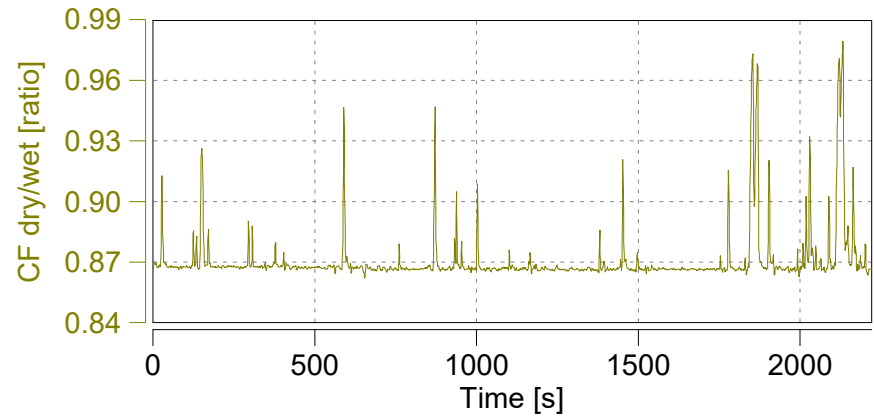
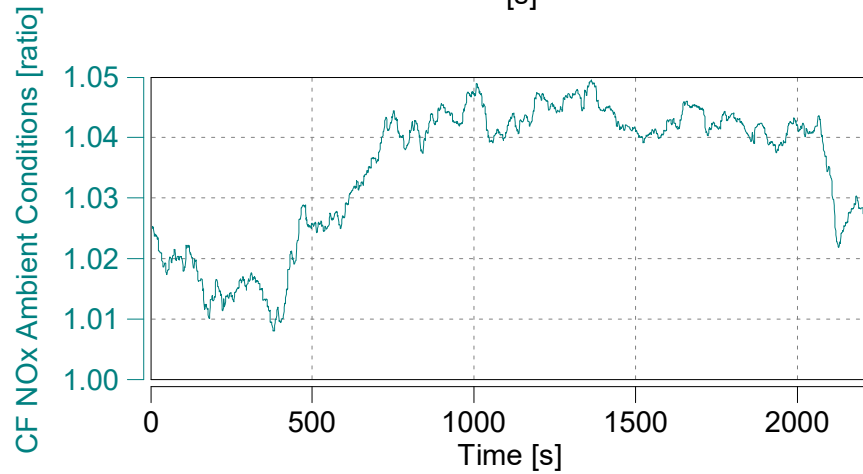
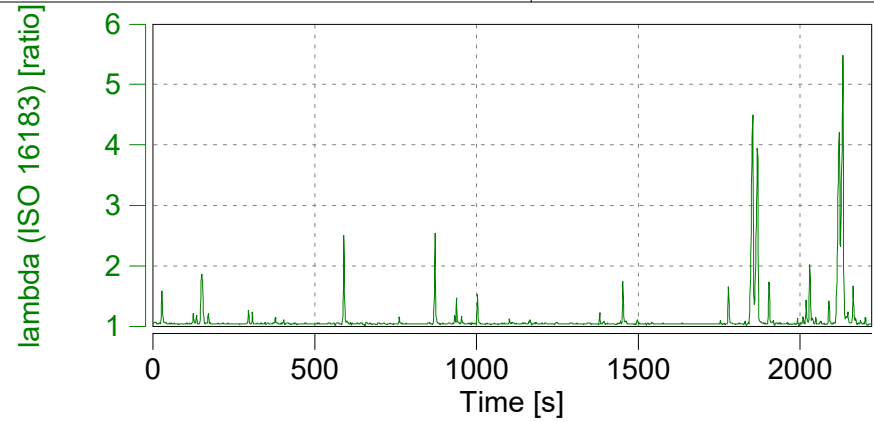
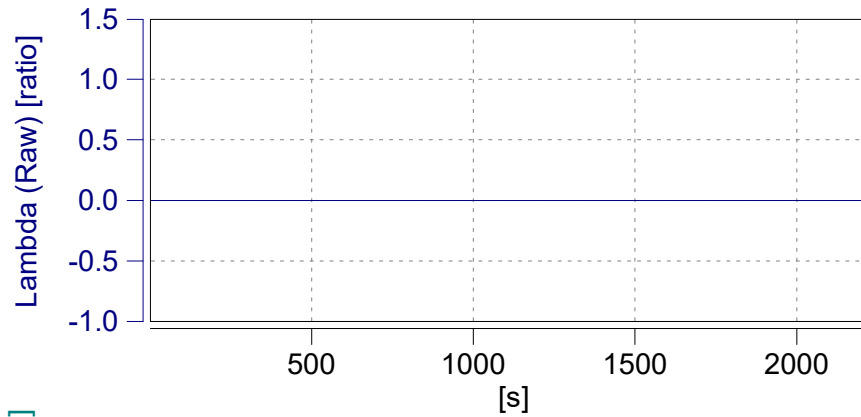


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

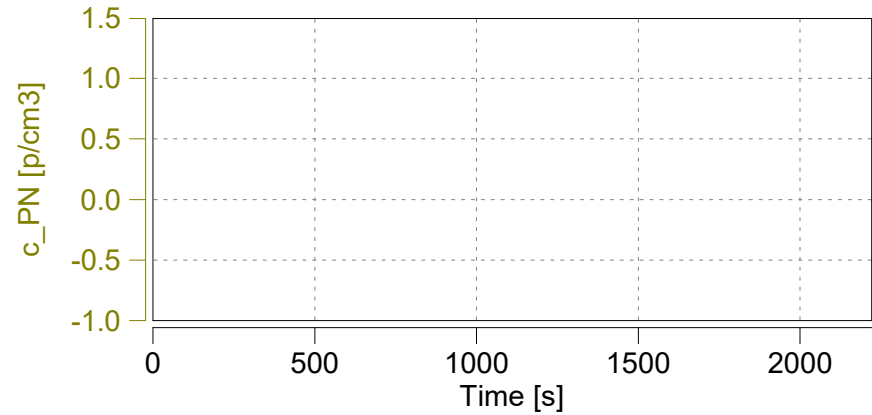
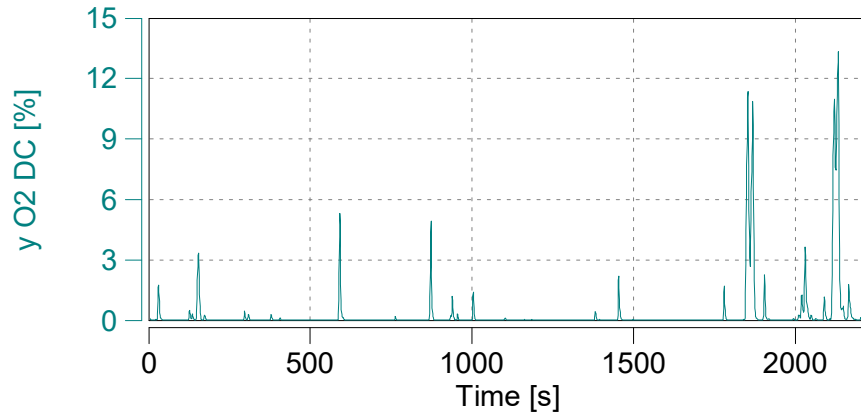
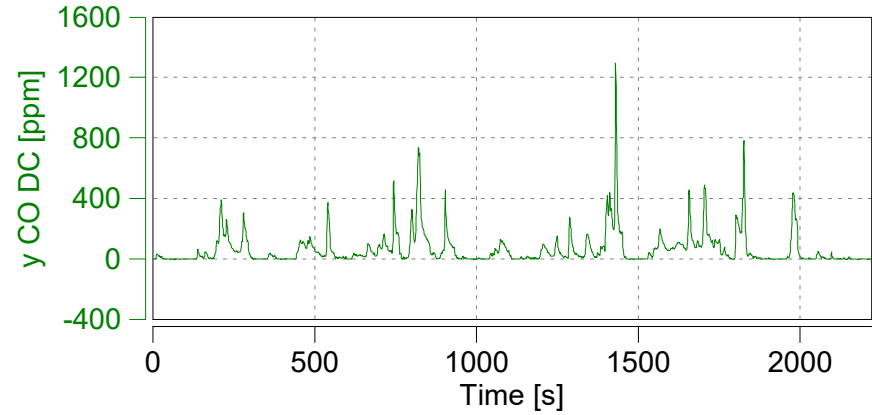
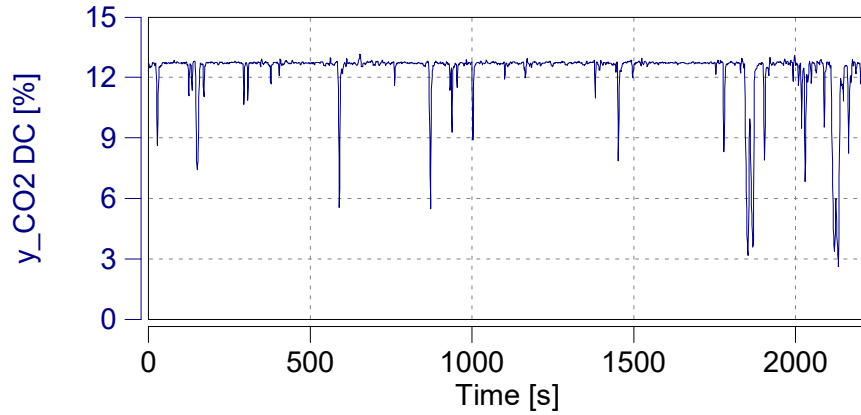
'Highway'

Start Date: 09/23/2019

Start Time: 13:18:44.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (2)

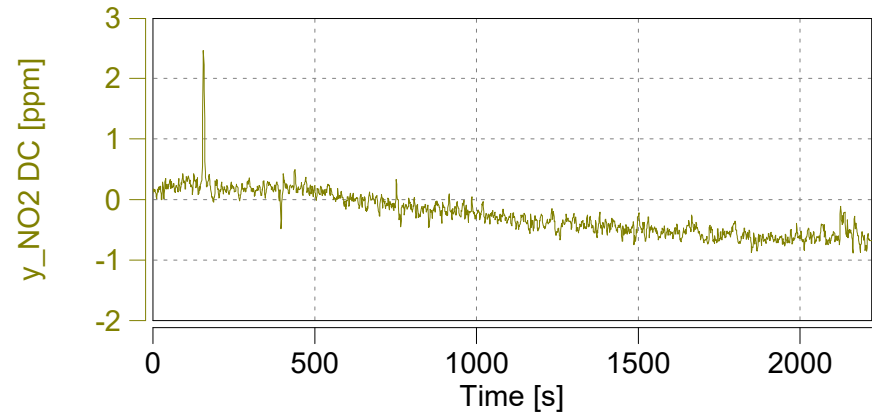
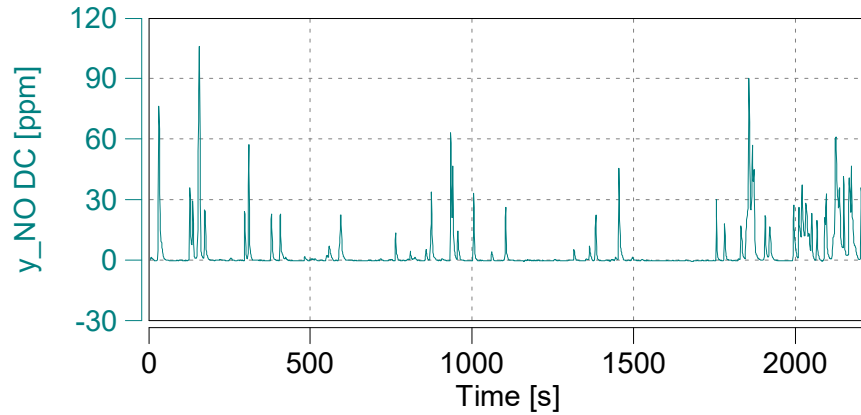
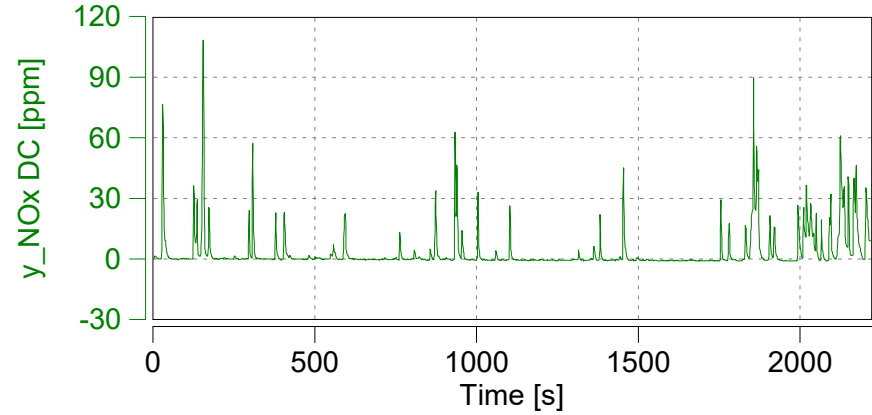
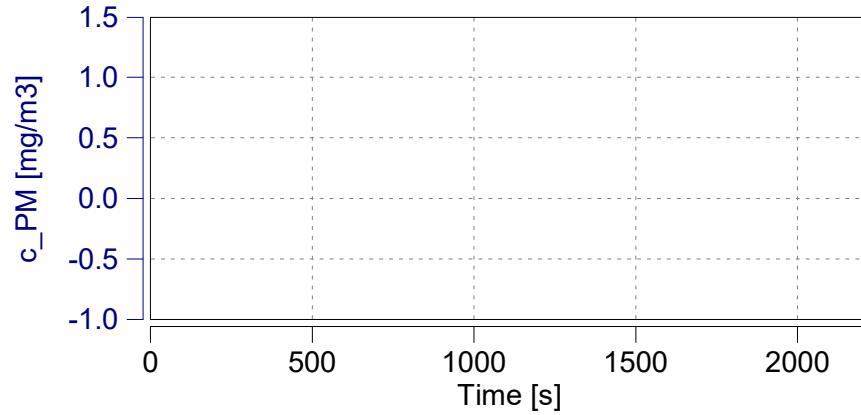
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Start Date: 09/23/2019

Start Time: 13:18:44.0

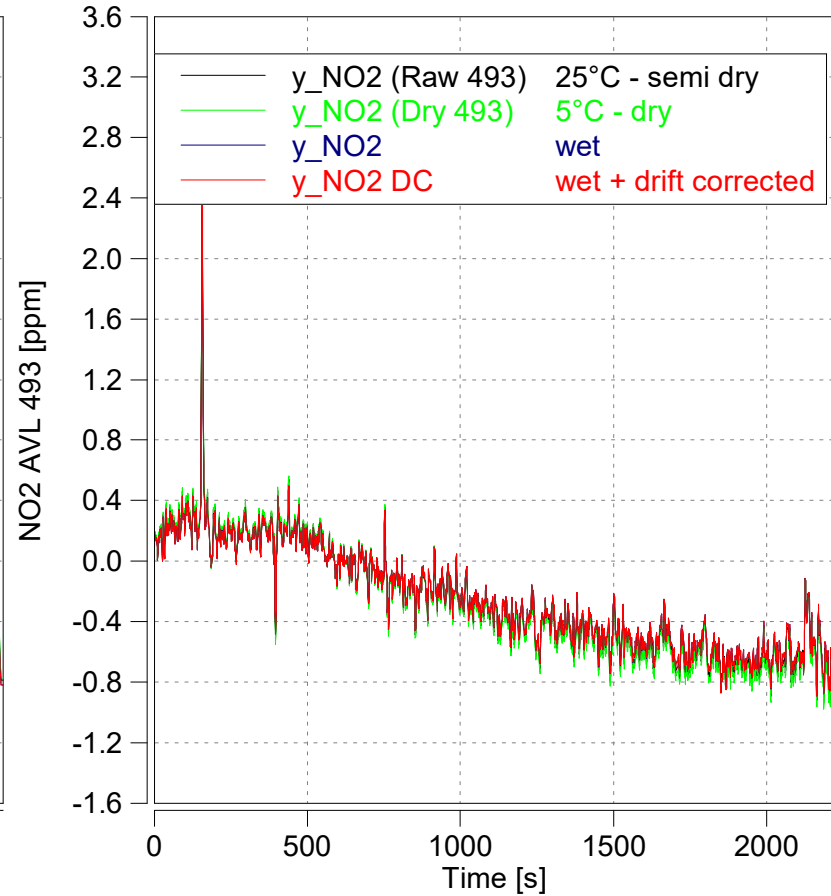
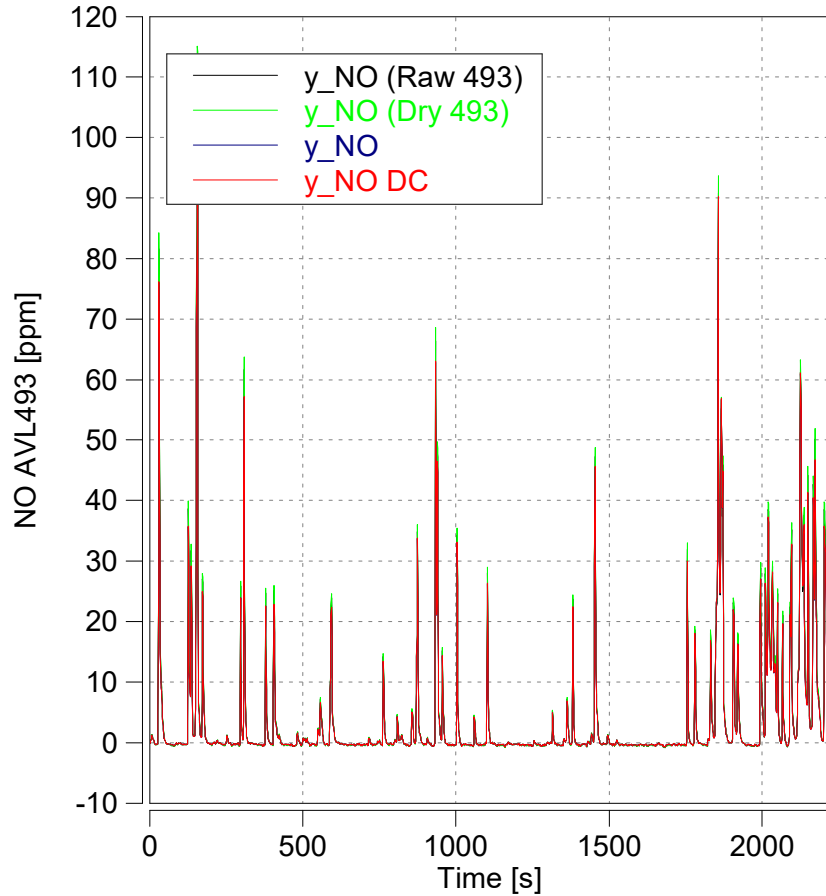


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

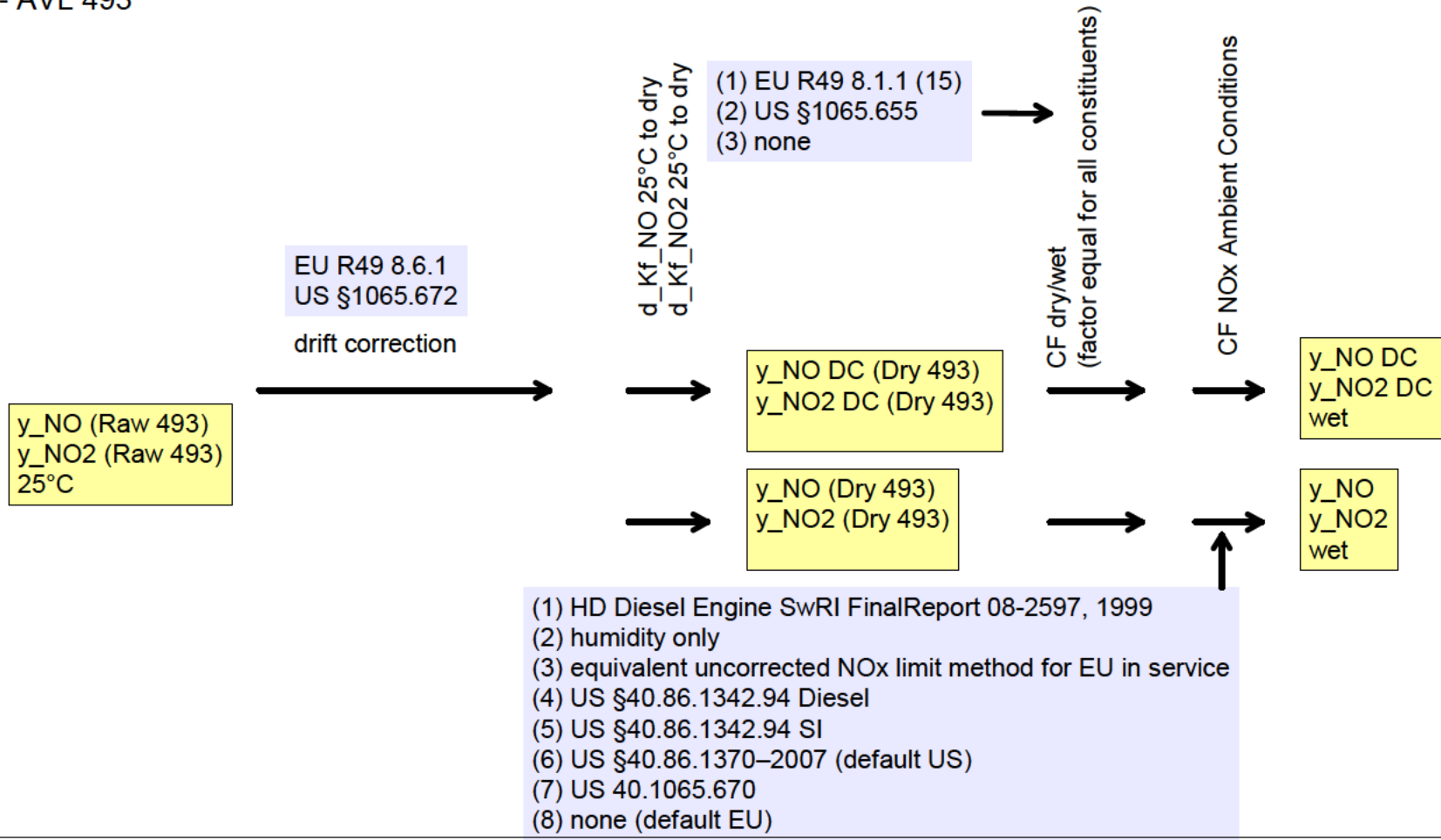


Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (5)

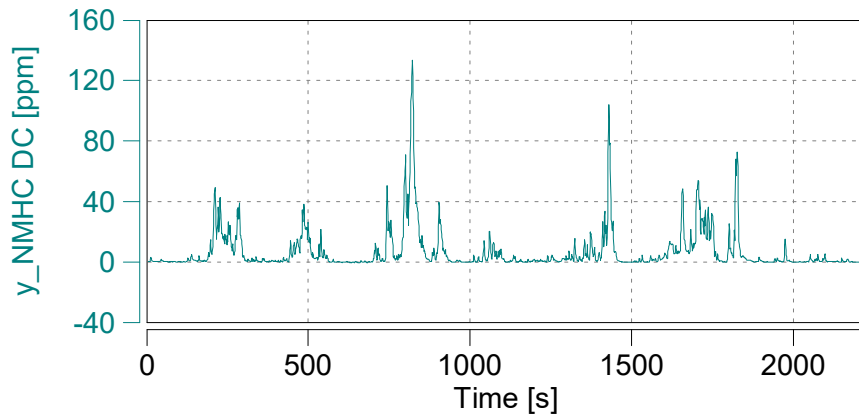
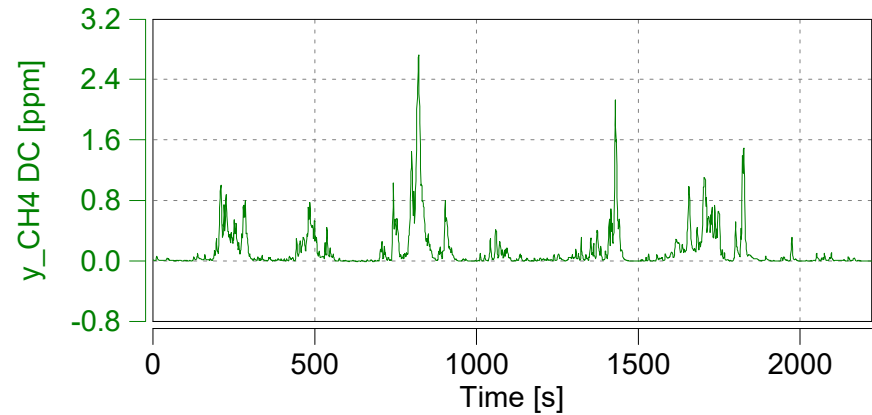
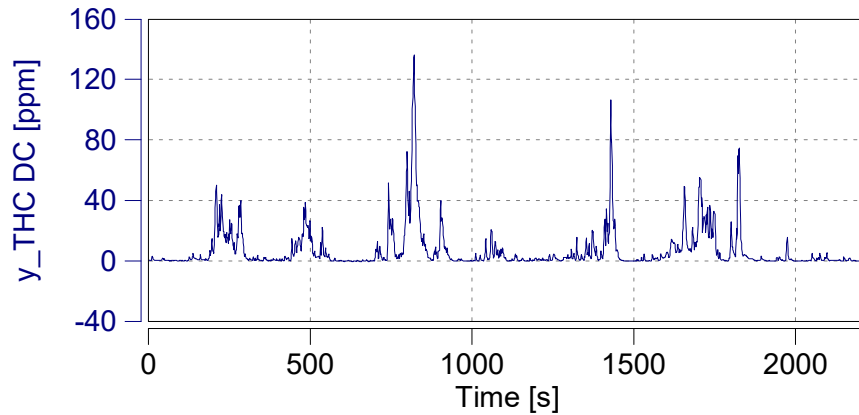
'Highway'

Start Date: 09/23/2019

Start Time: 13:18:44.0

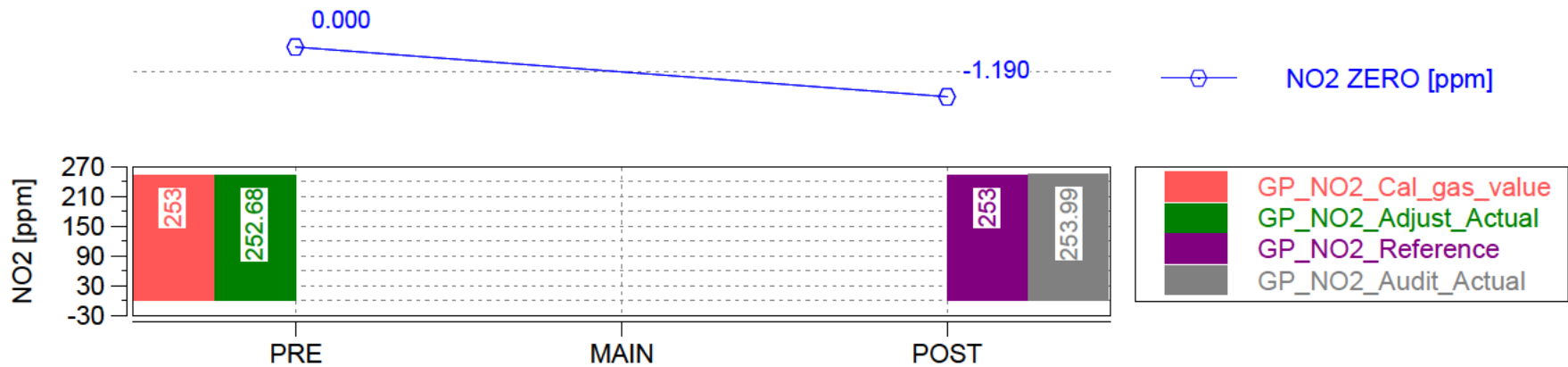
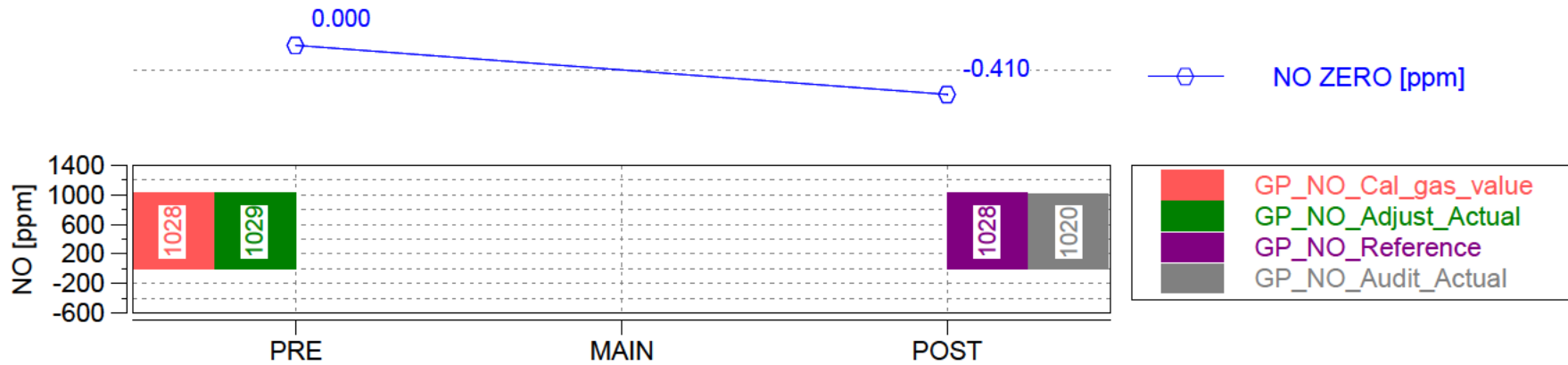


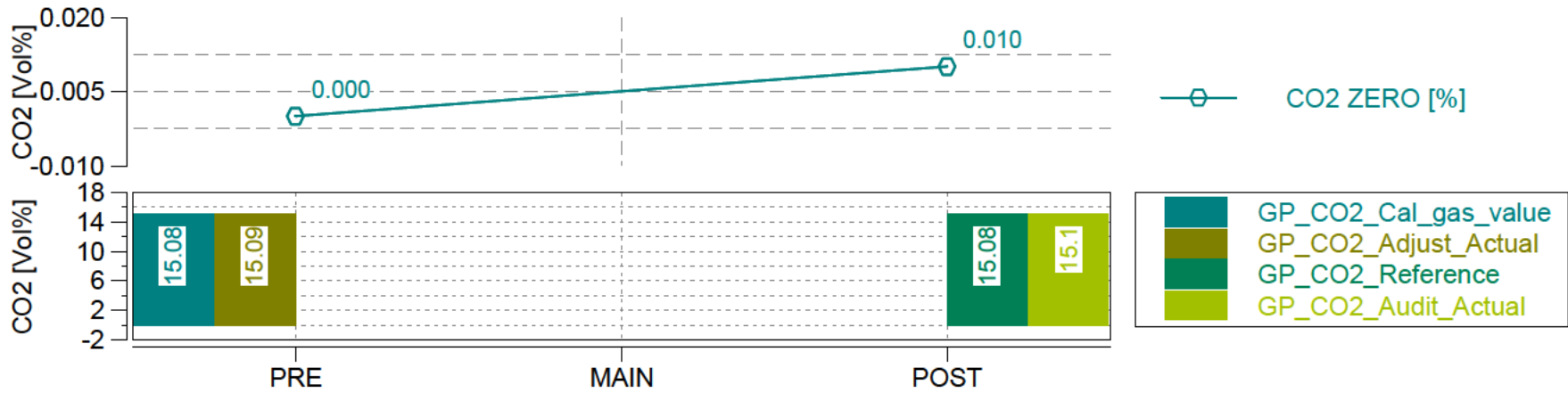
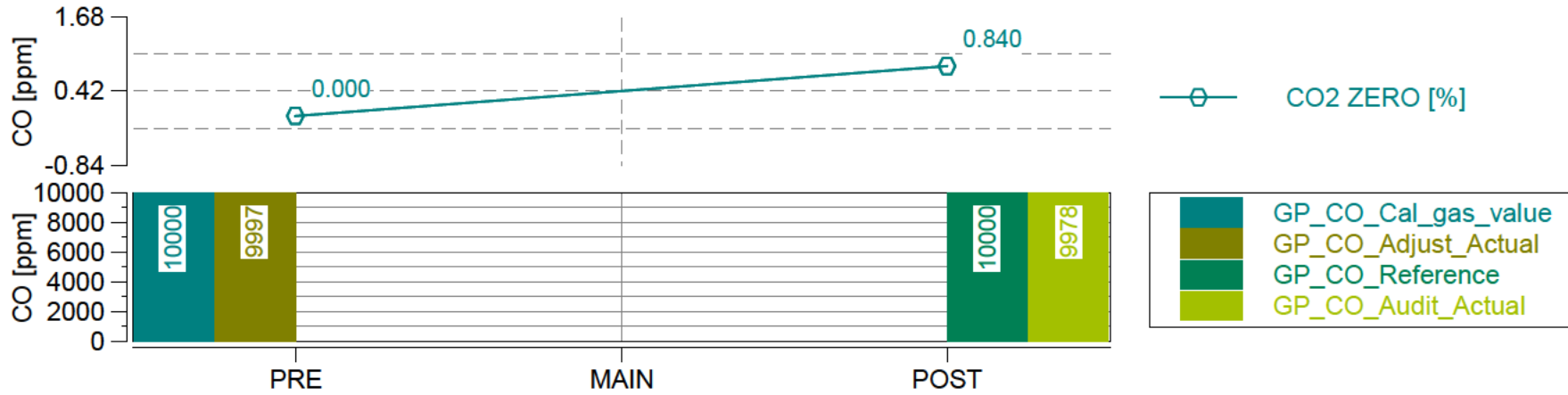
Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

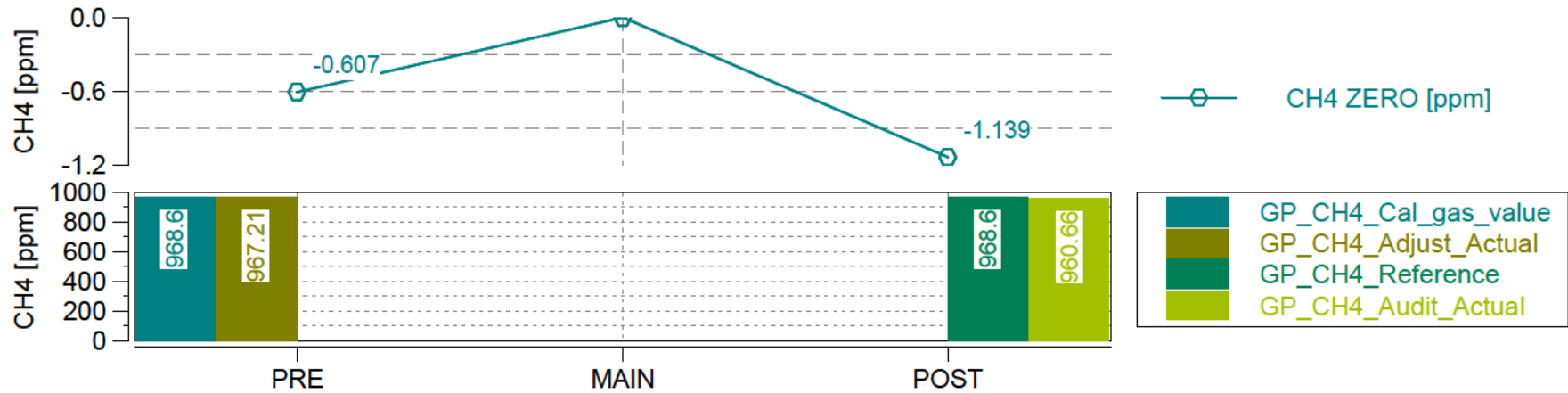
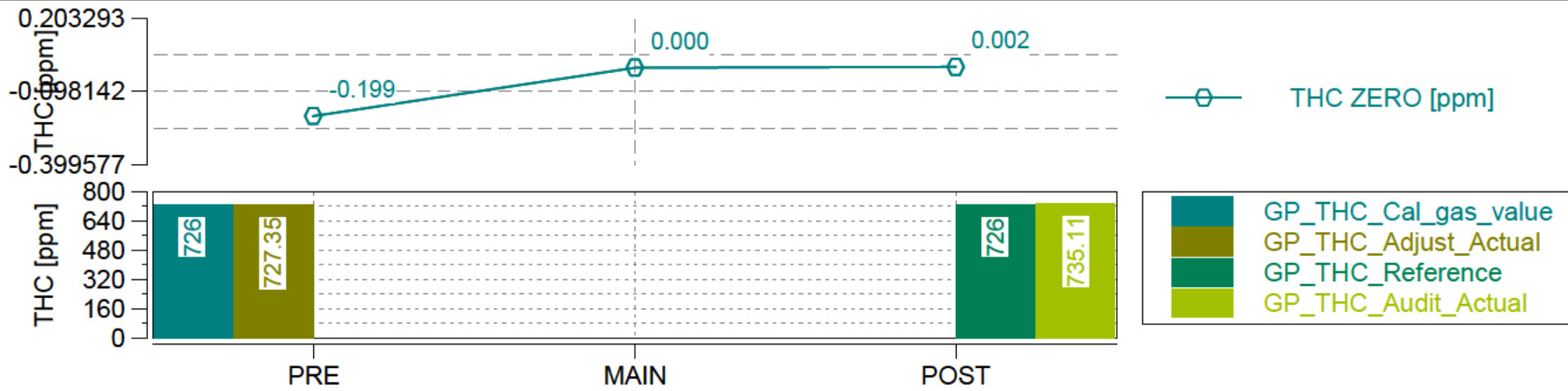
Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 09/23/2019
Start Time: 13:18:44.0



Trip Duration	2936.00	s	ave THC	7.83959	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2936.00	s	ave NMHC	7.68280	ppm	BS CO	n/a	g/hphr
Trip Distance	28.71	mi	ave CH4	0.15679	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	28.71	mi	ave CO	49.45603	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	10.31088	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	7.92523	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.24	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.21	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	25.06	mpg_US	tot THC	0.35397	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	25.33	mpg_US	tot NMHC	0.32743	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.00785	g	DS CO2	339.85158	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	6.56326	g	DS CO	0.22858	g/mi
Trip Fuel Economy EU GGE (ac)	25.06	mpg_US	tot CO2	9758.17059	g	DS THC	0.01233	g/mi
Trip Fuel Economy US GGE (ac)	25.33	mpg_US	tot NO (d)	0.52300	g	DS NMHC	0.01140	g/mi
Trip Av. Eng. Speed	1653.38	rpm	tot NO2	-0.03367	g	DS CH4	0.00027	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.48933	g	DS NO (d)	0.01821	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	-0.00117	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01704	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	54.05	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	76.50	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	56.47	%	Trip Av. Veh. Speed	35.20989	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	211.84	m	Trip Velocity Zero	9.16213	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	9.11136	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	20.77240	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	70.11624	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

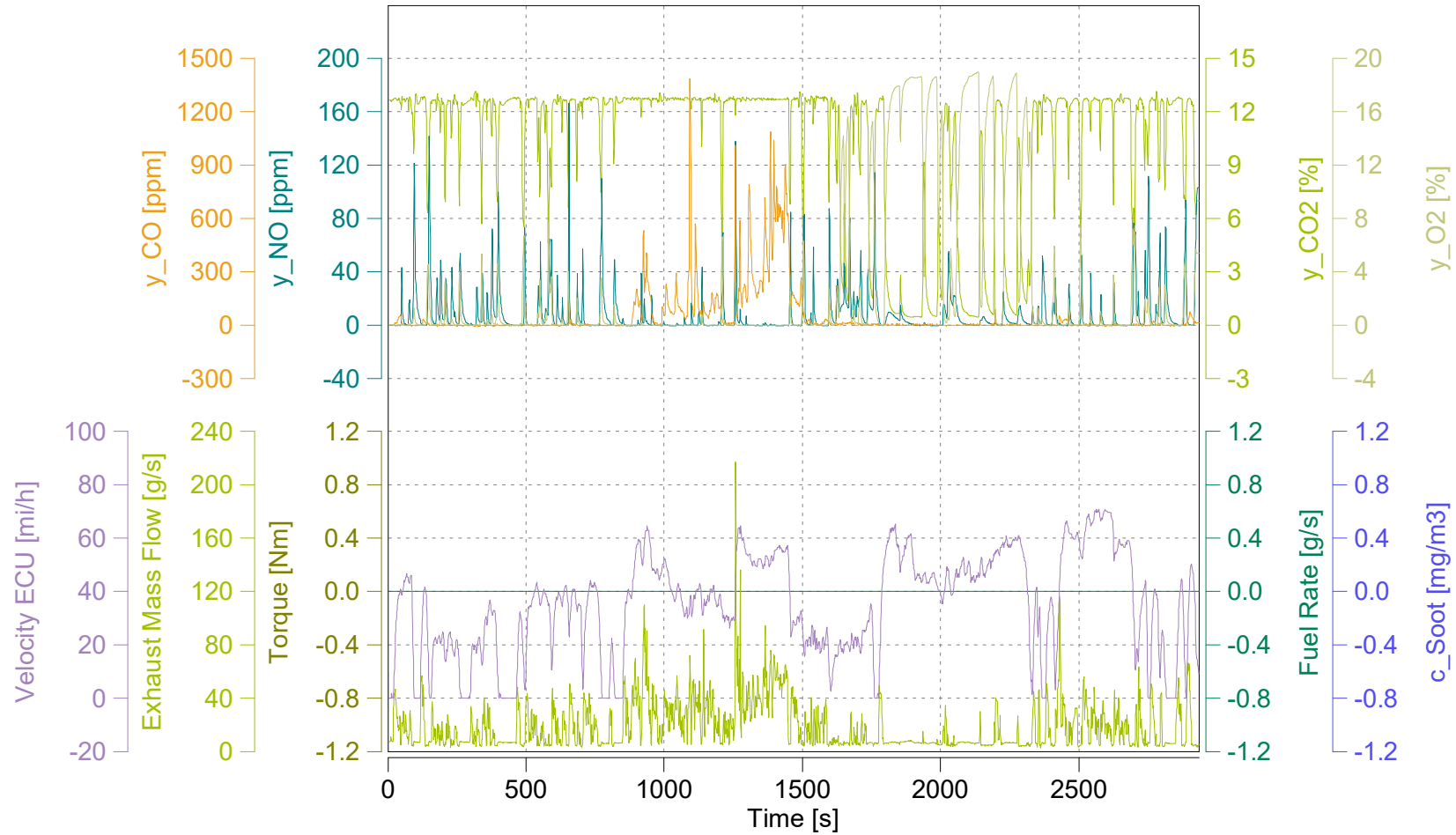


Trip Duration	2936.00	s	ave THC DC	7.88107	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2936.00	s	ave NMHC DC	7.72345	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.71	mi	ave CH4 DC	0.15762	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.71	mi	ave CO DC	49.51587	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	10.30063	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	7.94930	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.24	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.21	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.35405	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	25.06	mpg_US	tot NMHC DC	0.32750	g			
Trip Fuel Economy US (ac)	25.33	mpg_US	tot CH4 DC	0.00785	g	DS CO2 DC	339.51386	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	6.57120	g	DS CO DC	0.22886	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	9748.47384	g	DS THC DC	0.01233	g/mi
Trip Fuel Economy EU GGE (ac)	25.06	mpg_US	tot NO DC (d)	0.52447	g	DS NMHC DC	0.01141	g/mi
Trip Fuel Economy US GGE (ac)	25.33	mpg_US	tot NO2 DC	-0.03363	g	DS CH4 DC	0.00027	g/mi
			tot NOx DC	0.49085	g	DS NO DC (d)	0.01827	g/mi
Trip Av. Eng. Speed	1653.38	rpm	tot Soot	n/a	g	DS NO2 DC	-0.00117	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.01709	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	54.05	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	35.20989	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	76.50	deg_F	Trip Velocity Zero	9.16213	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	56.47	%	Trip Velocity Urban	9.11136	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	211.84	m	Trip Velocity Rural	20.77240	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	70.11624	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

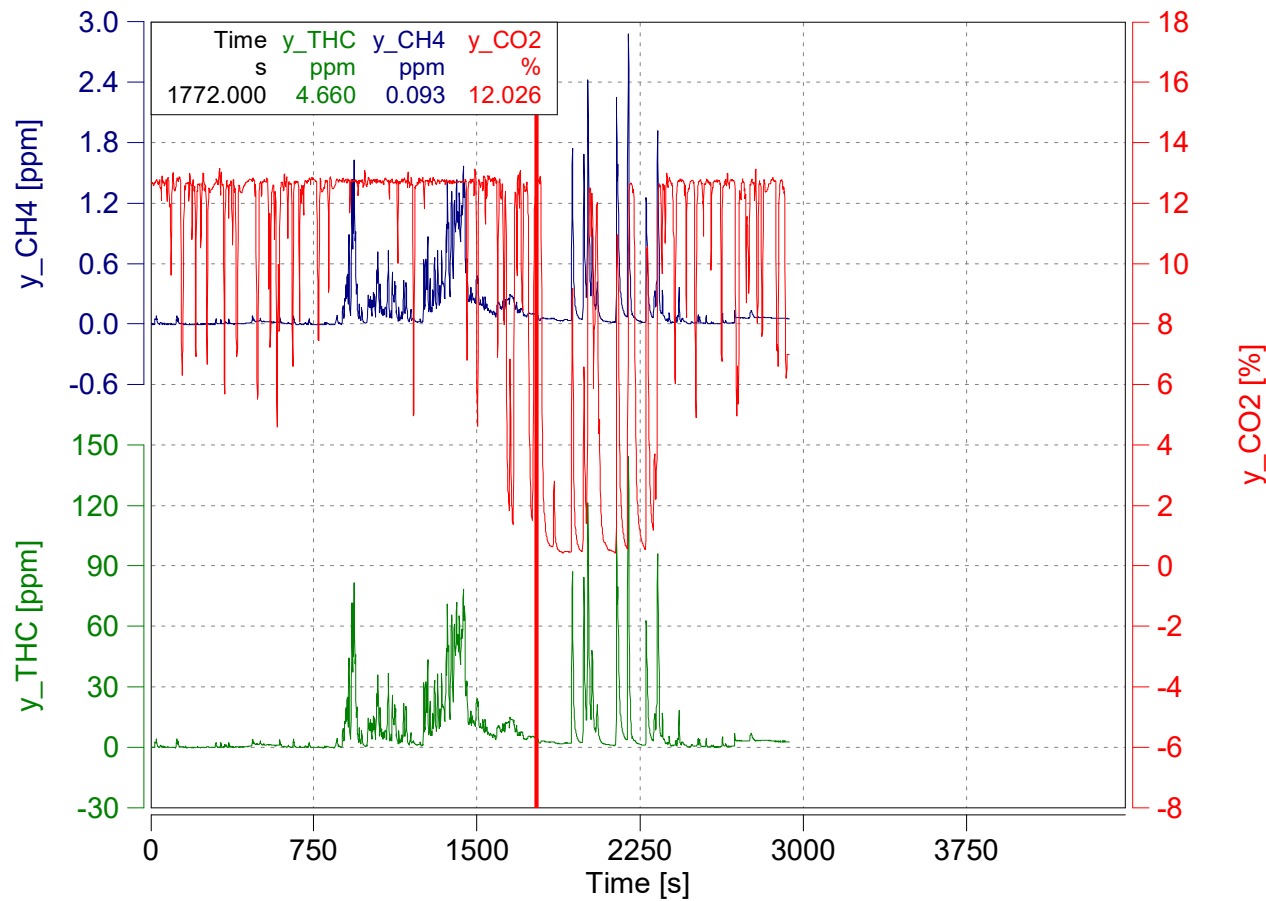
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 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Absolute Time Shifts

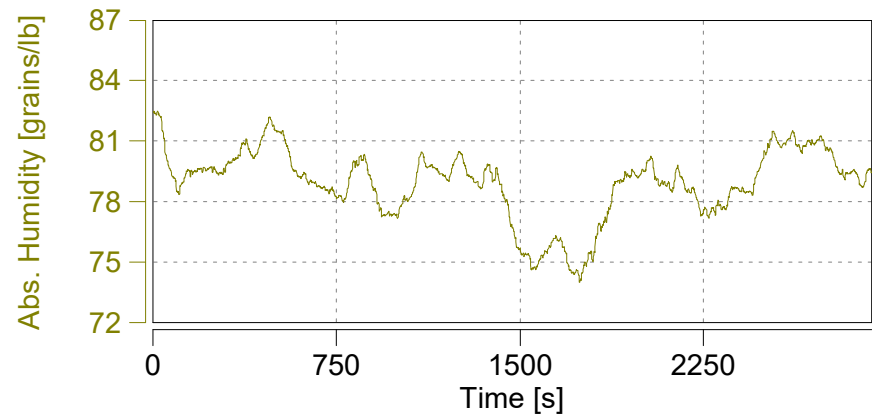
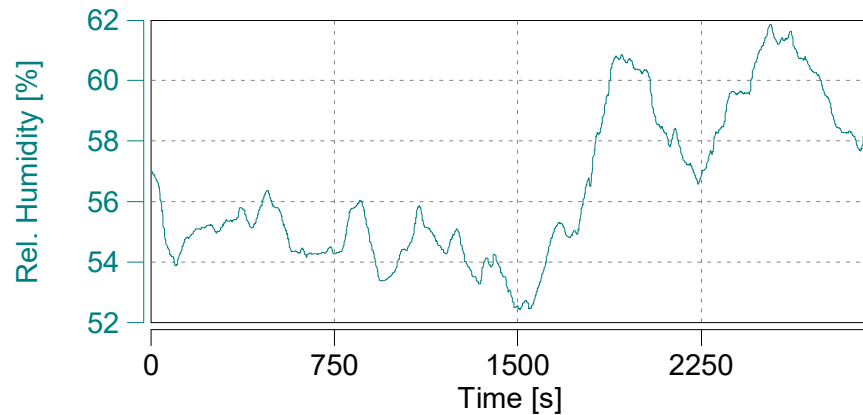
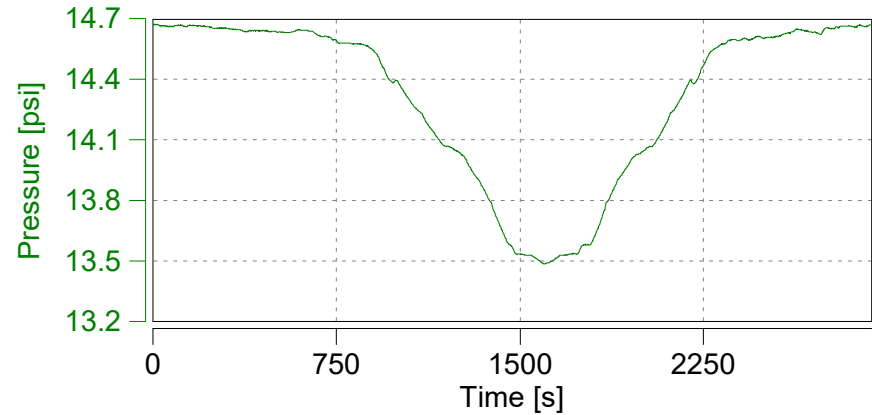
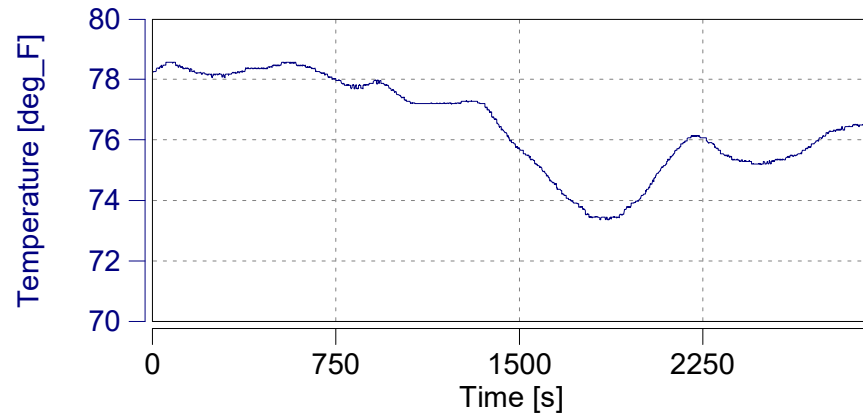
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

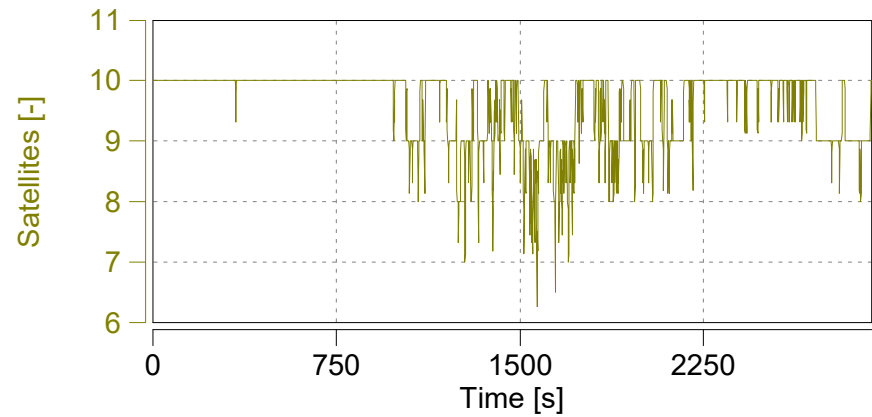
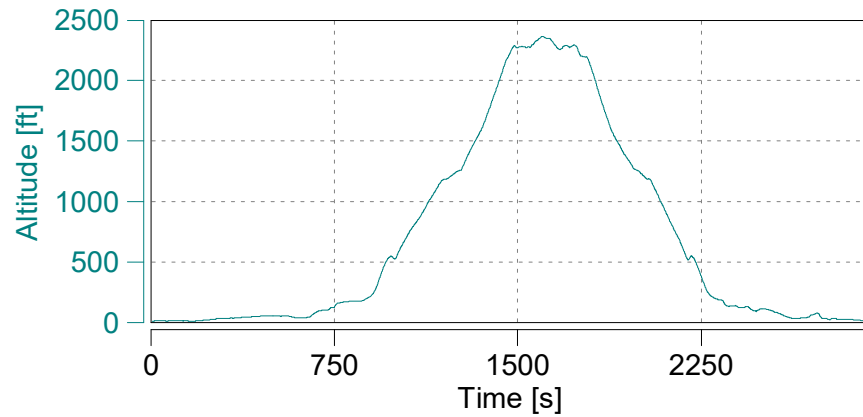
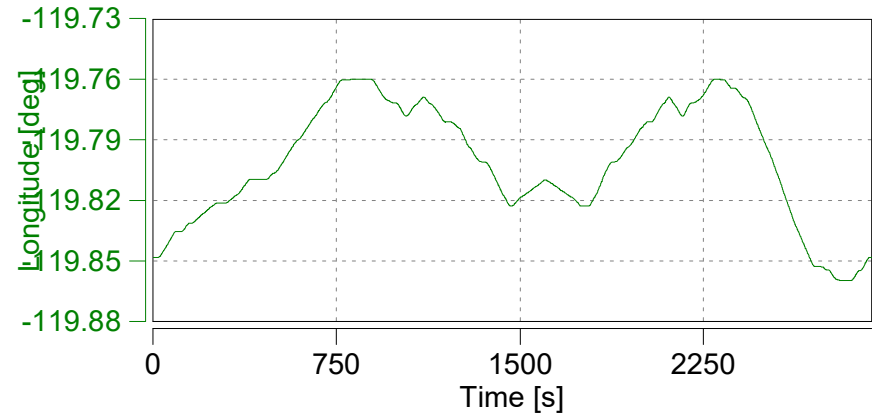
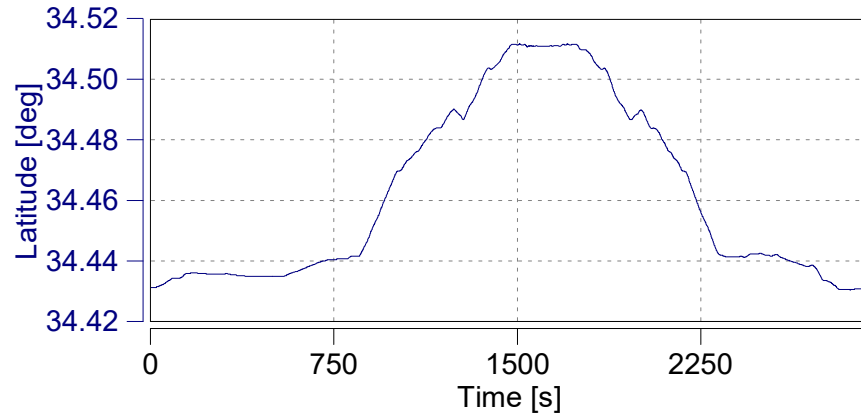
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 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



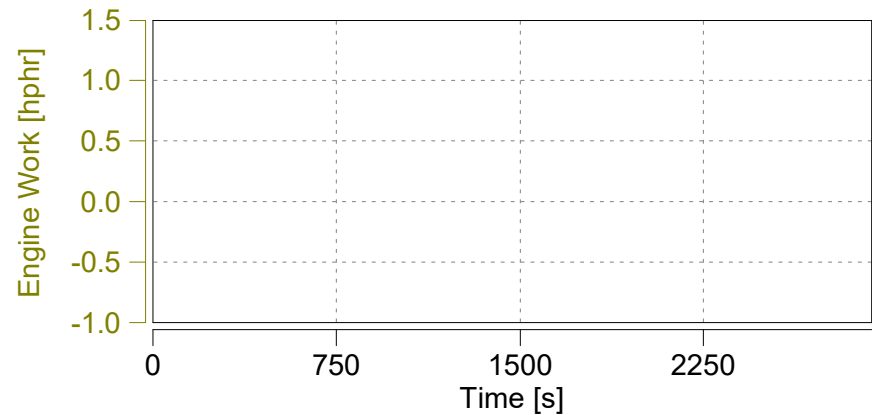
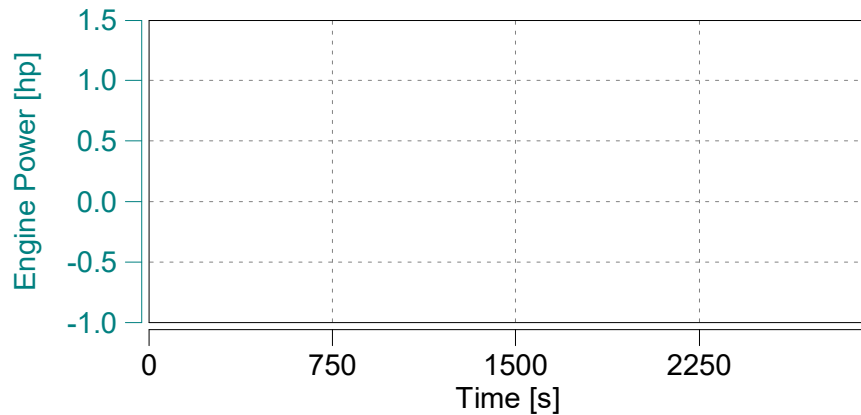
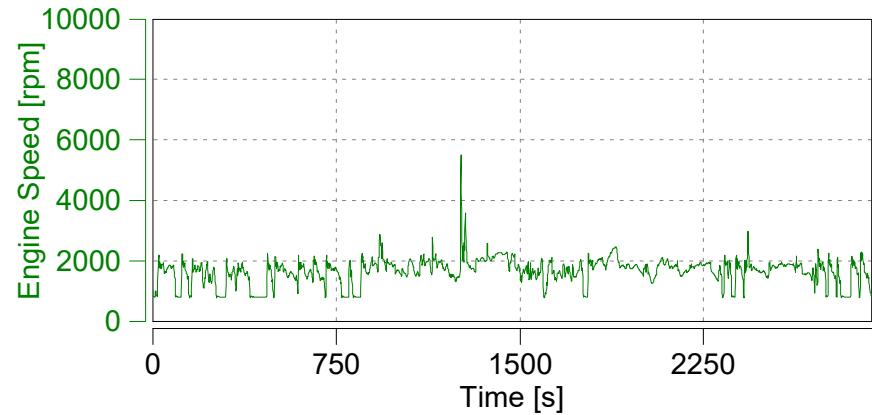
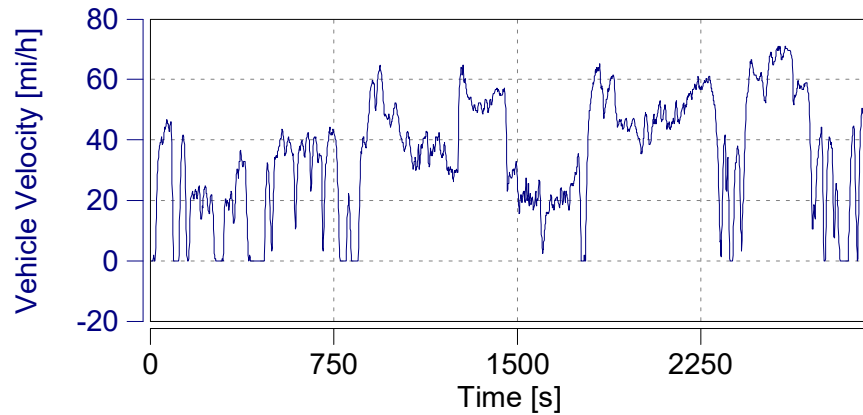
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Legislation:

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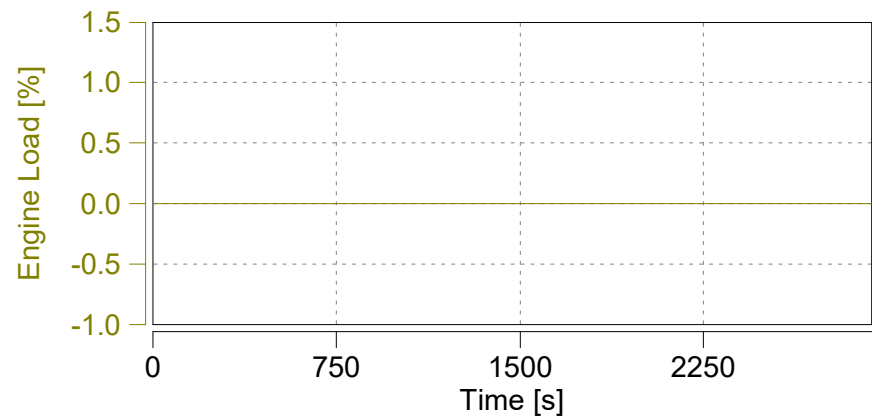
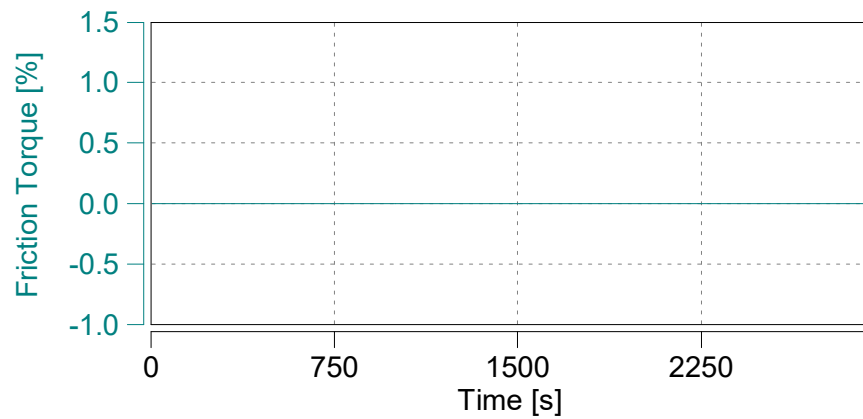
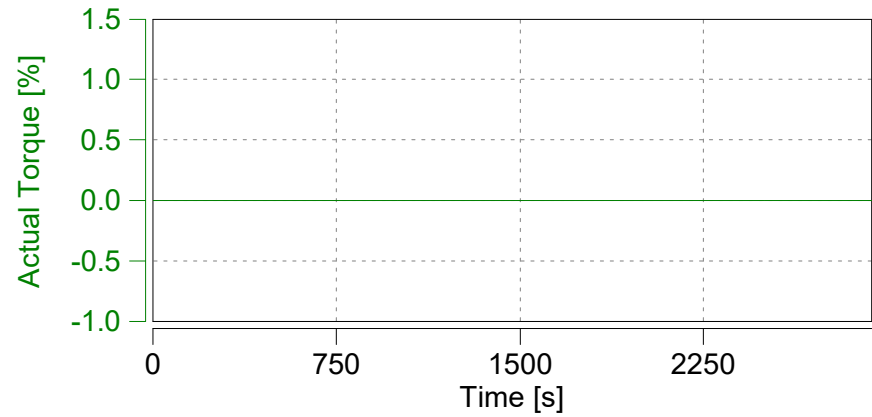
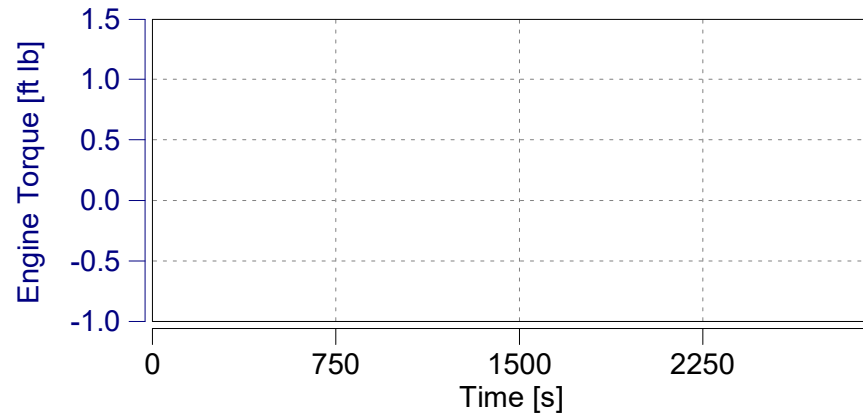
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Legislation:

Vehicle: Arteon / 2.0 L
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NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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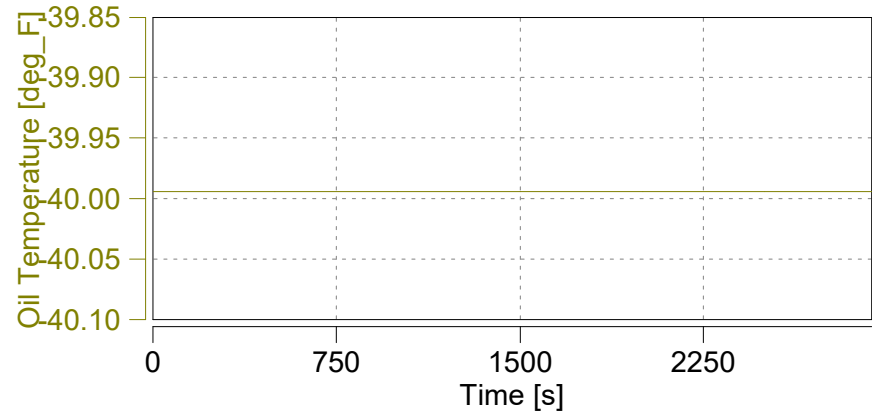
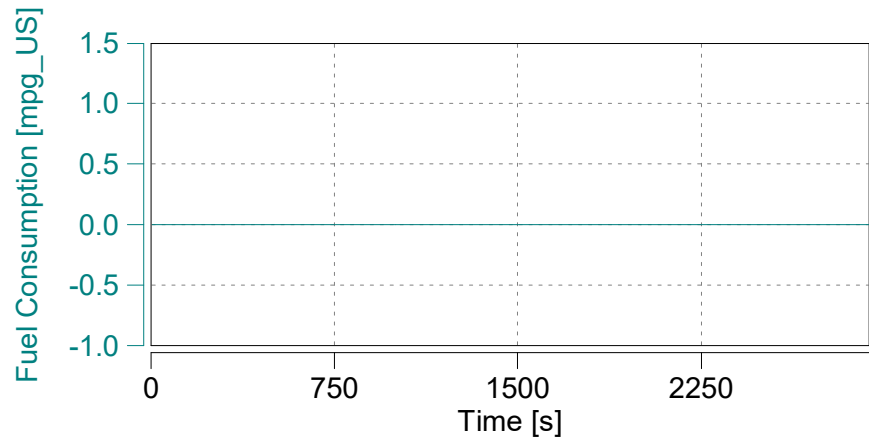
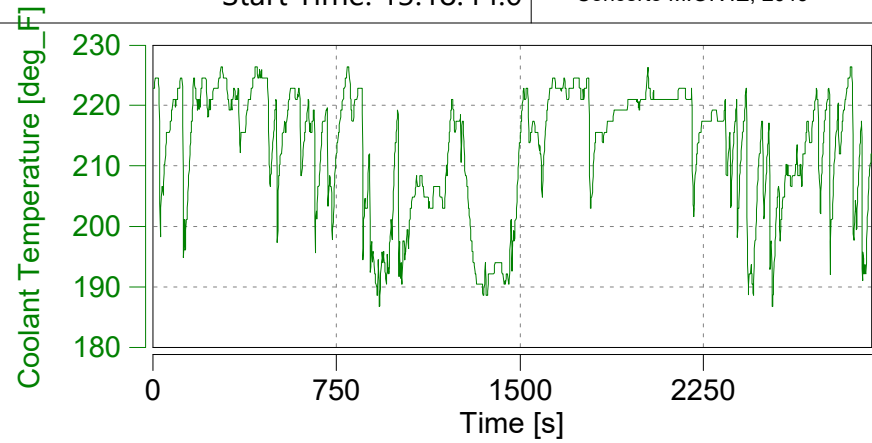
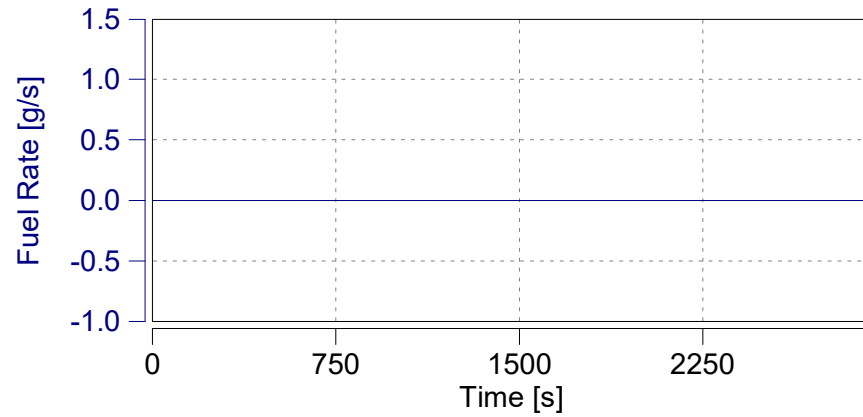
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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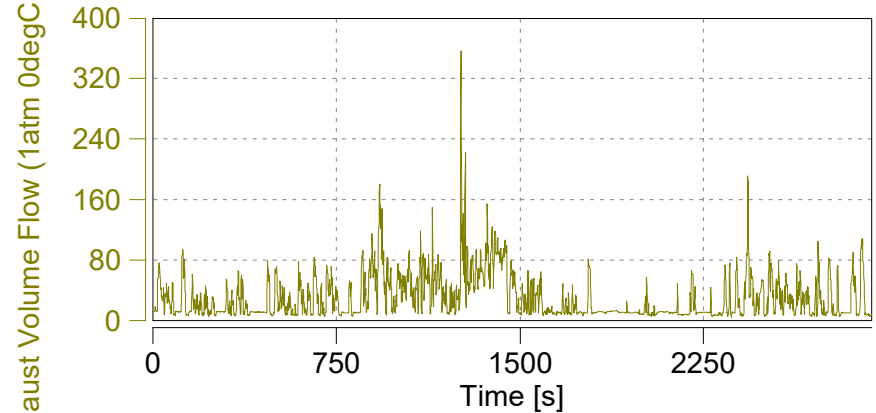
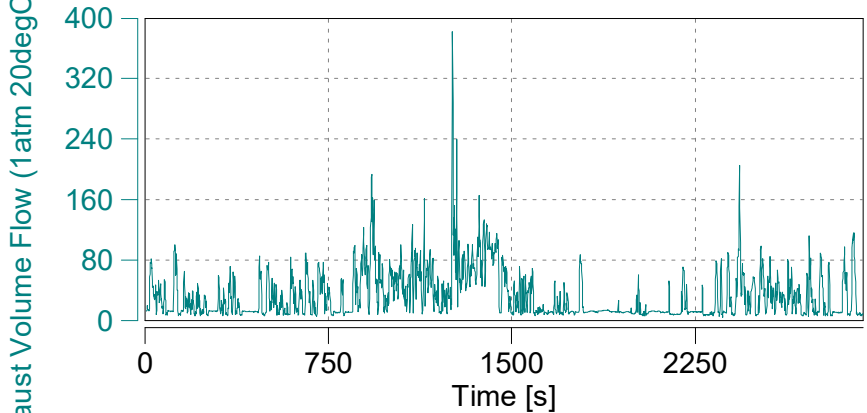
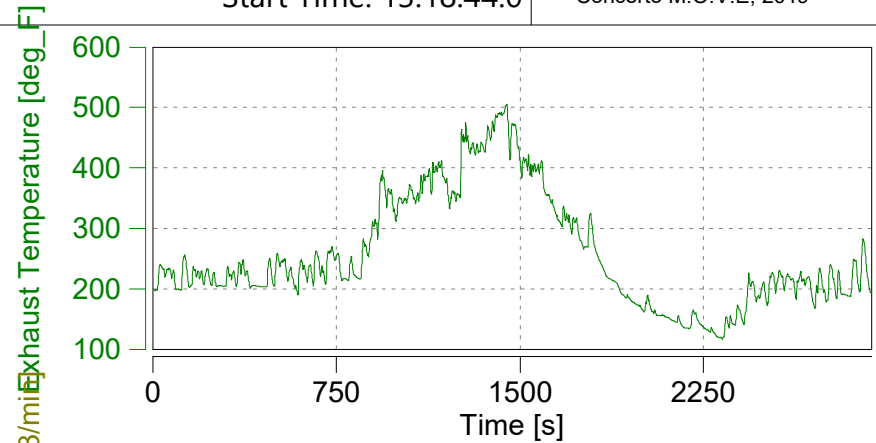
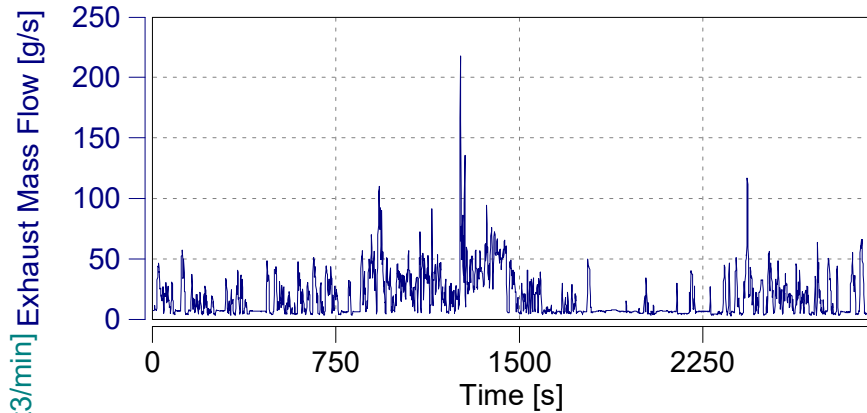
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



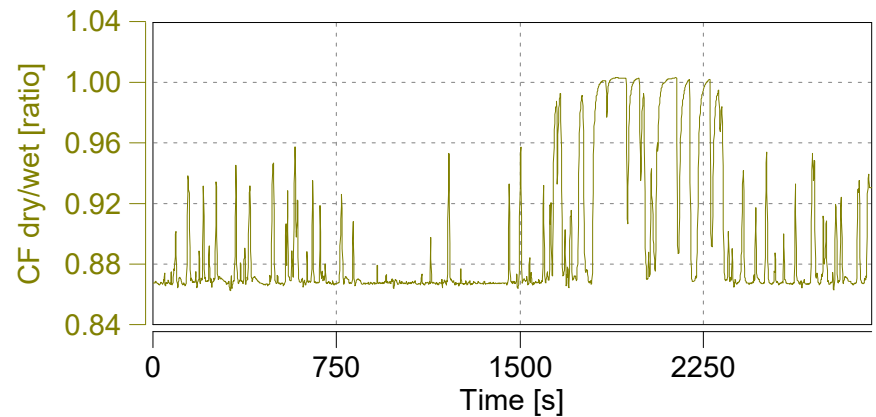
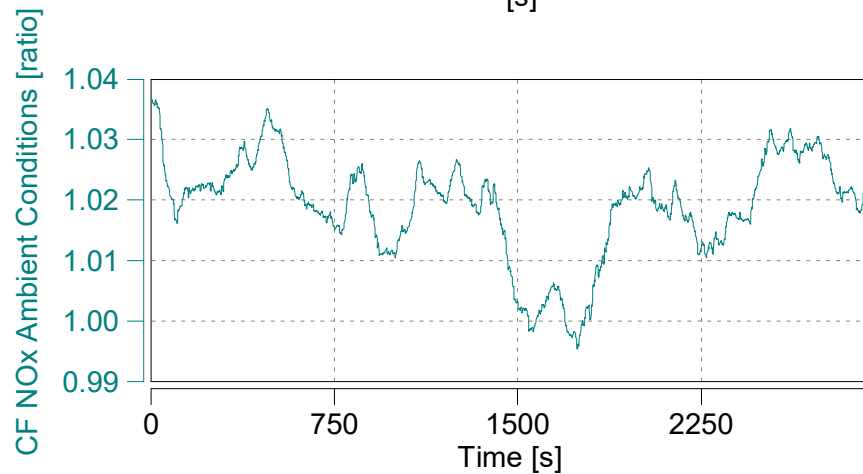
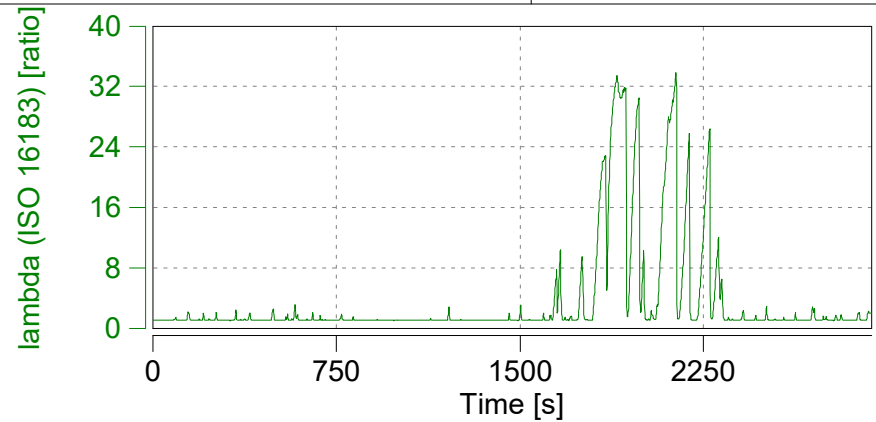
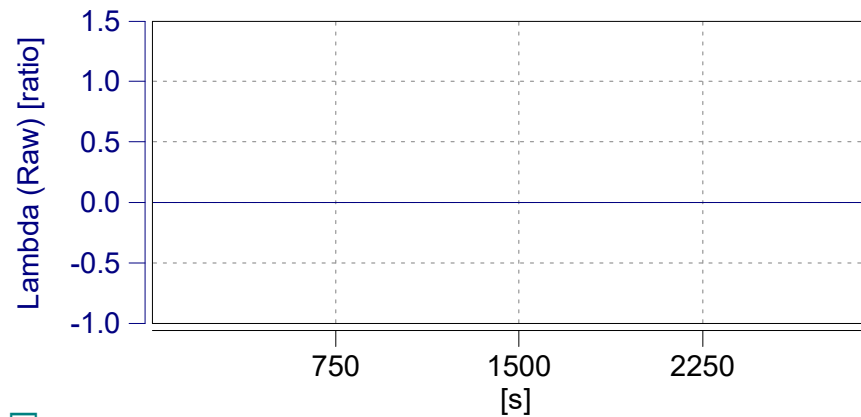
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Vehicle: Arteon / 2.0 L
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain

Page: Corrected Emissions (1)

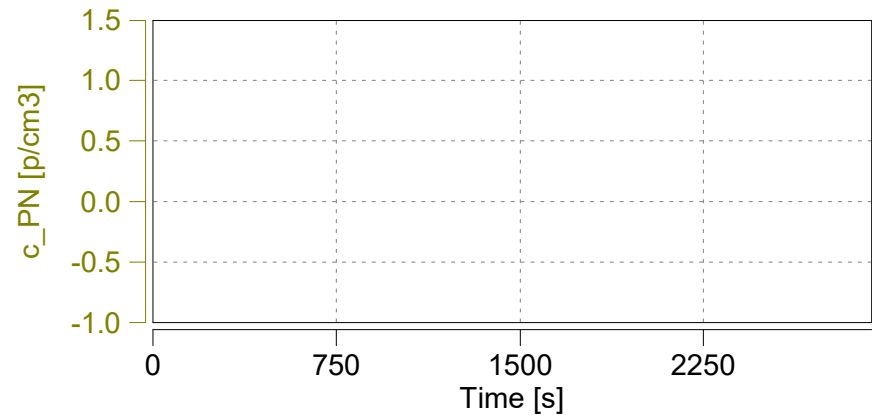
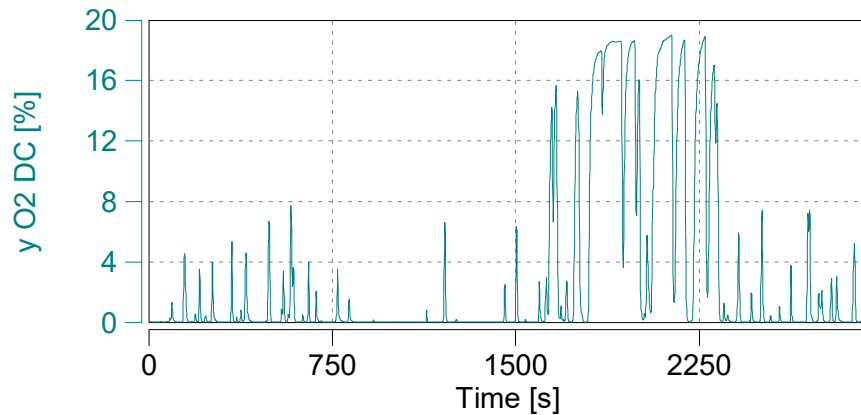
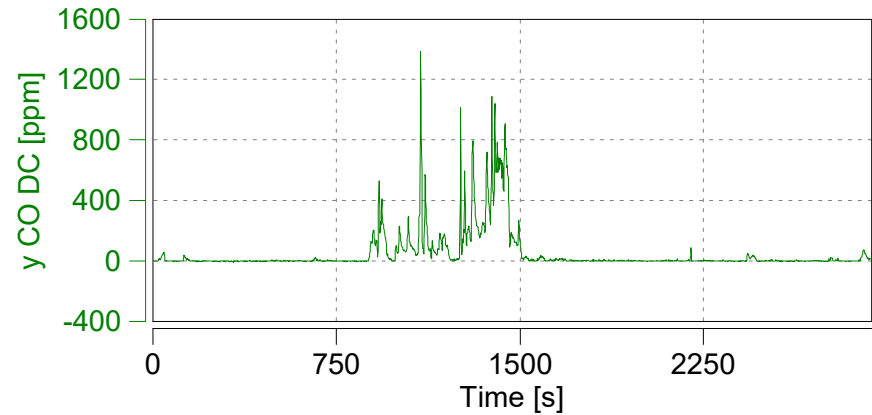
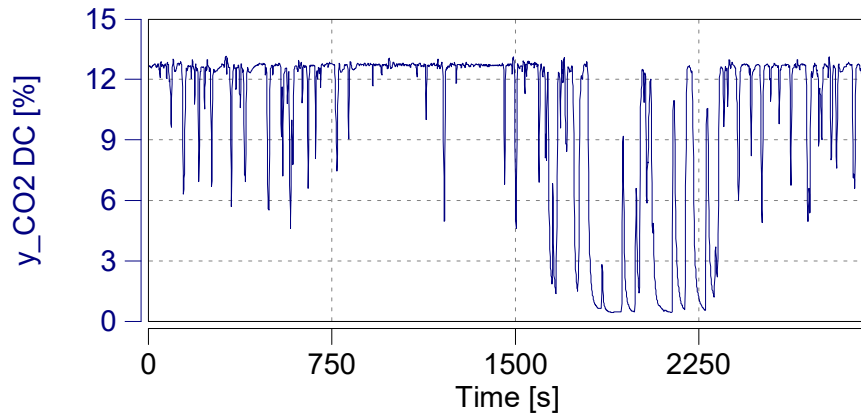
'Mountain'

Start Date: 09/23/2019

Start Time: 13:18:44.0

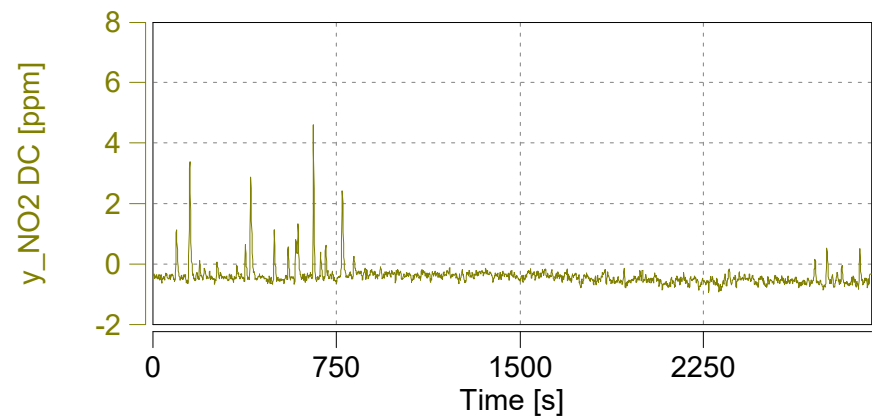
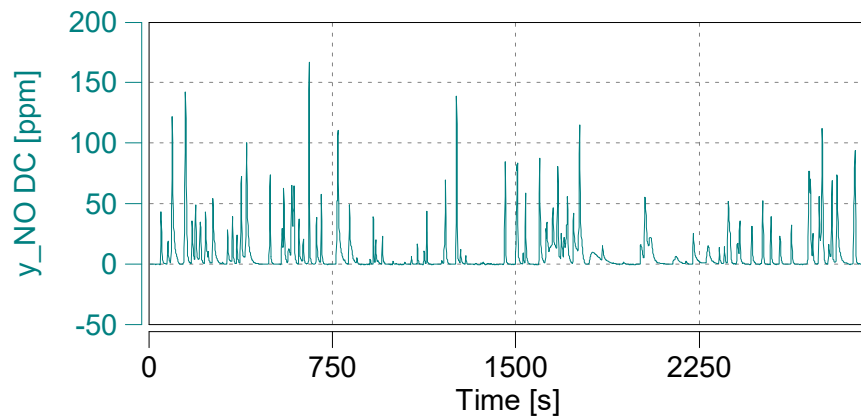
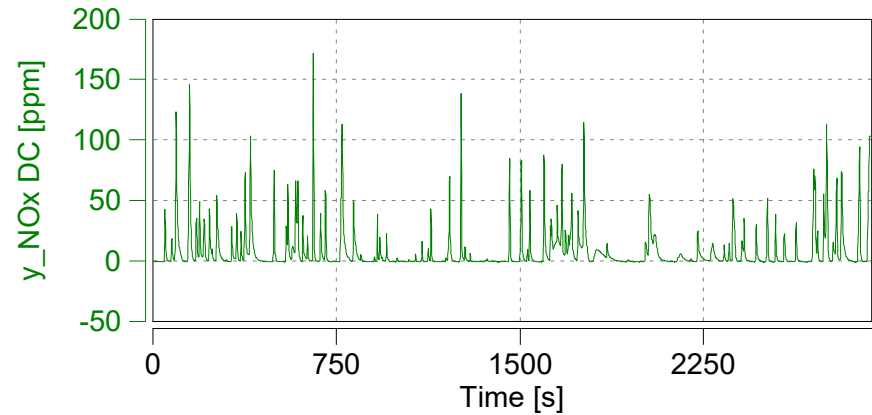
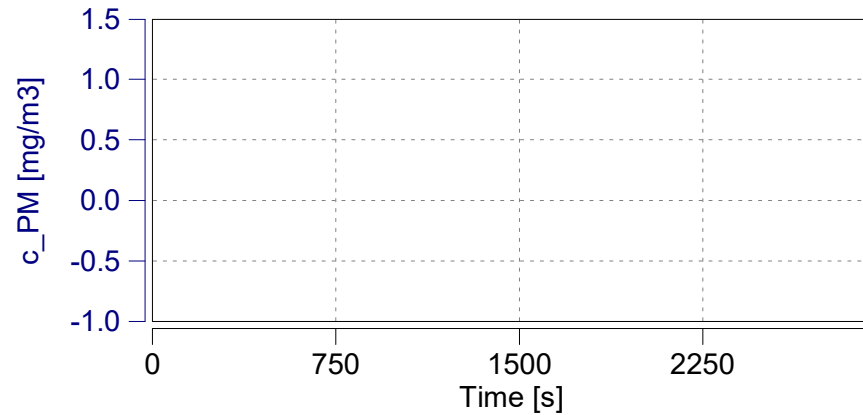


Concerto M.O.V.E., 2019



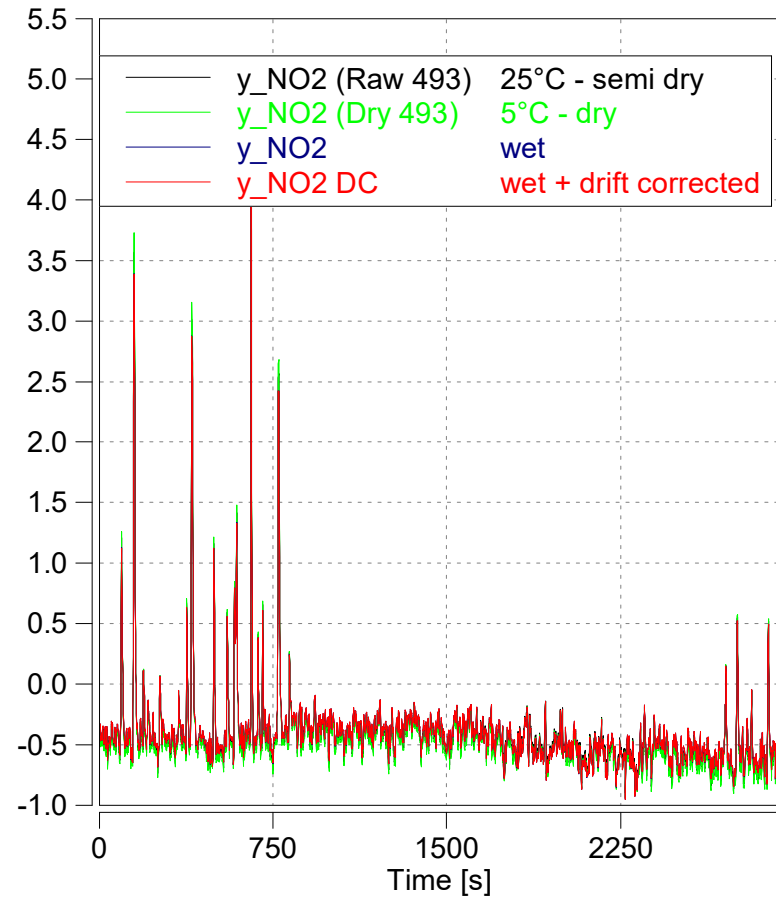
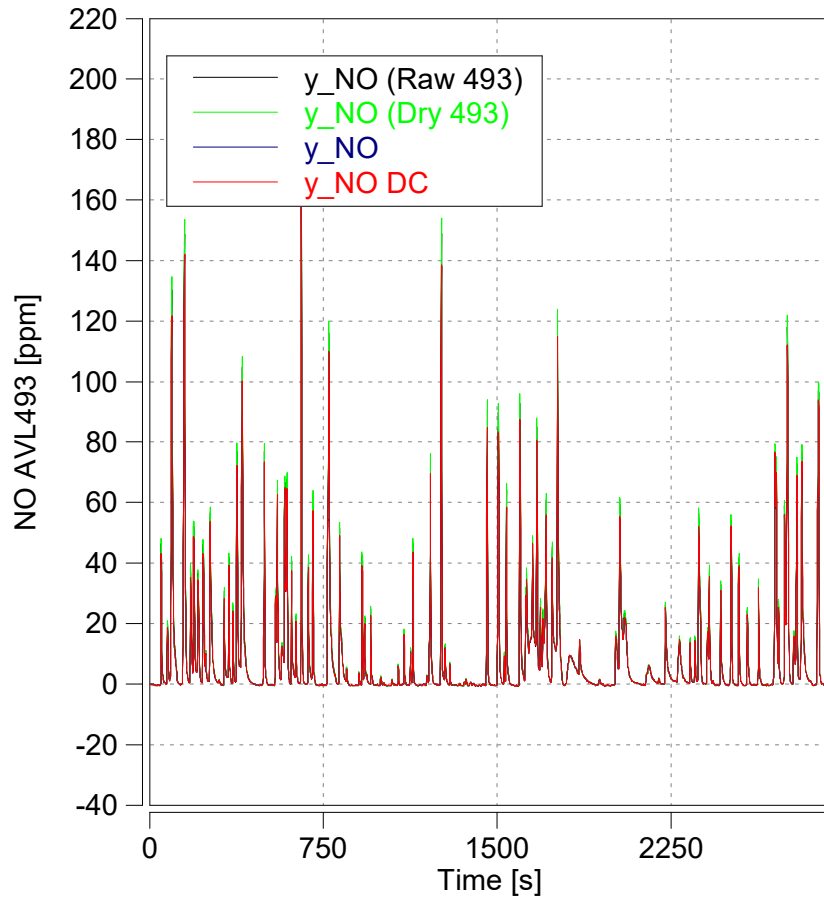
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

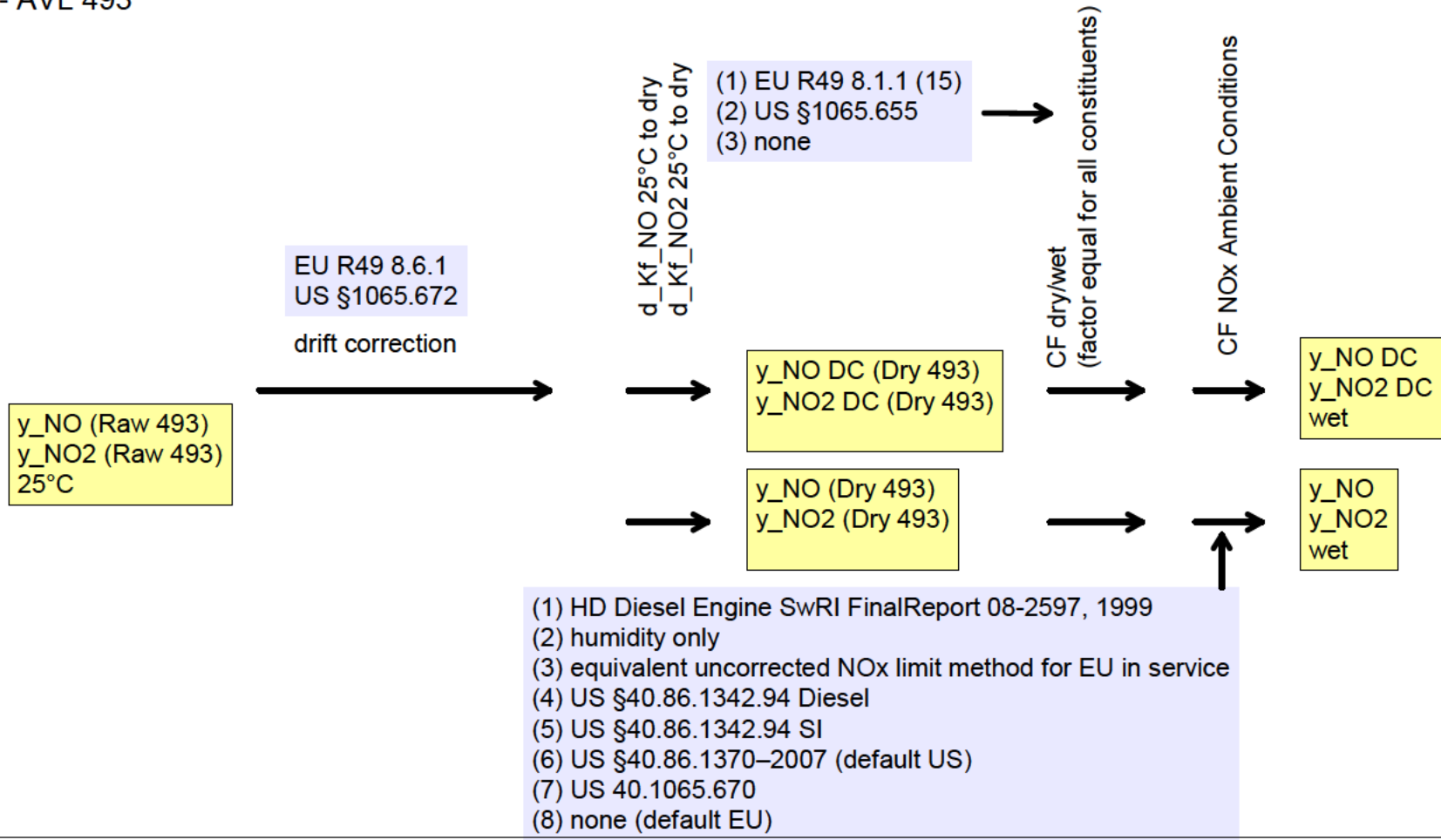


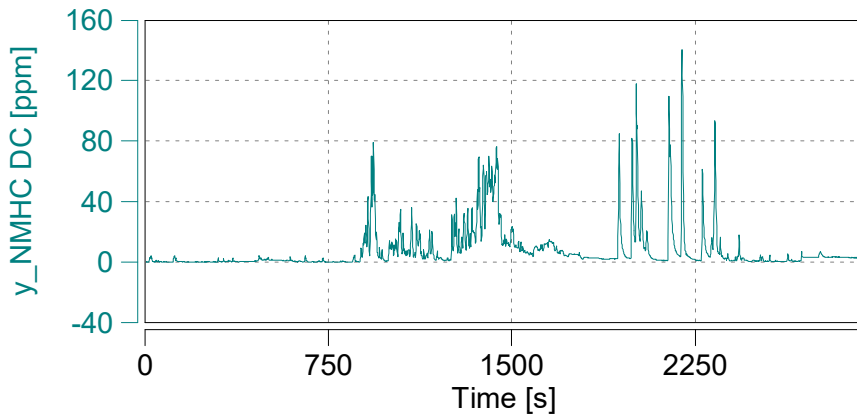
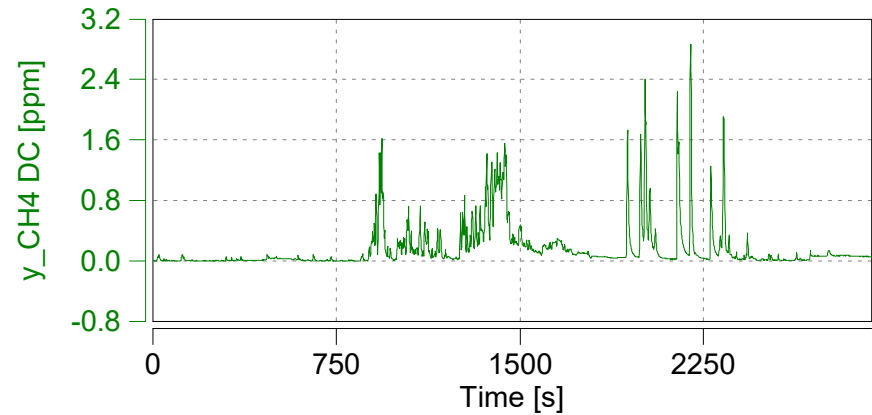
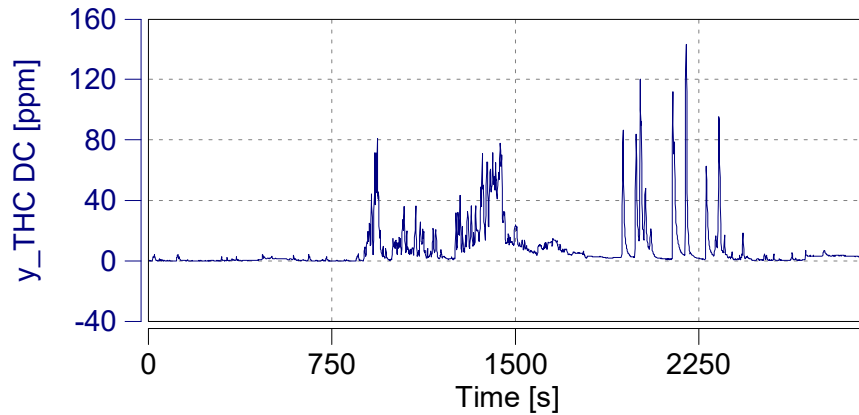
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



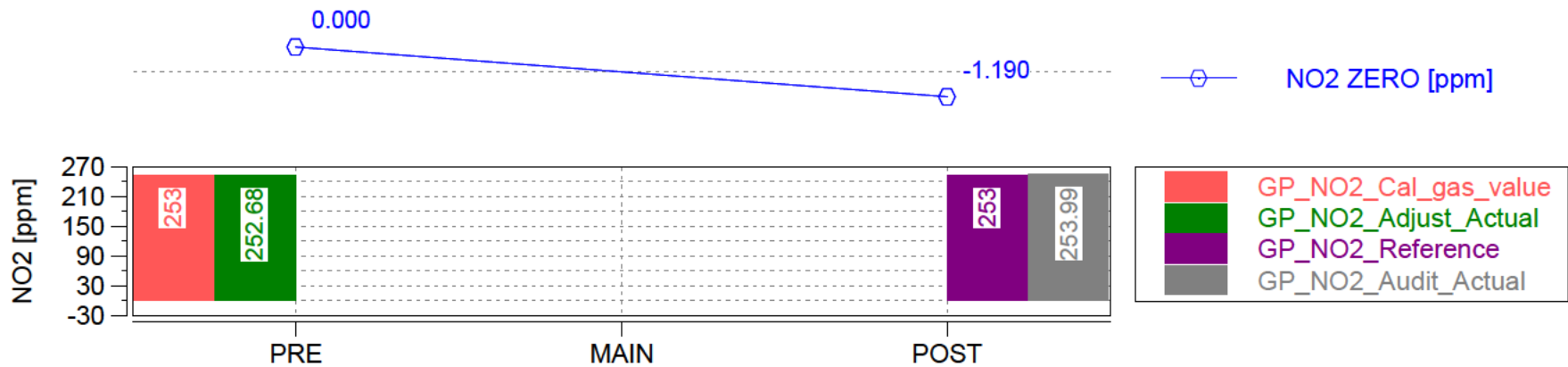
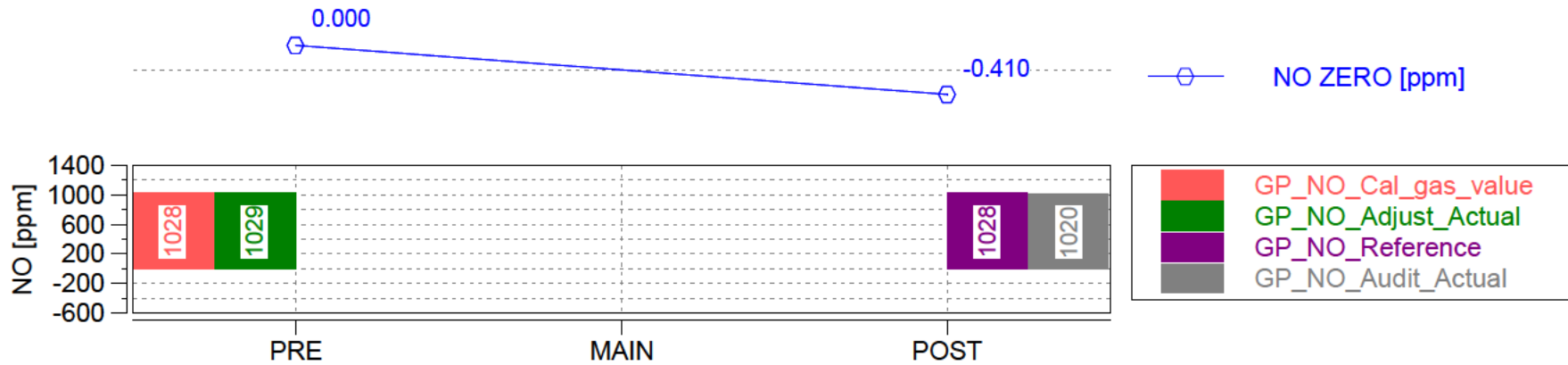
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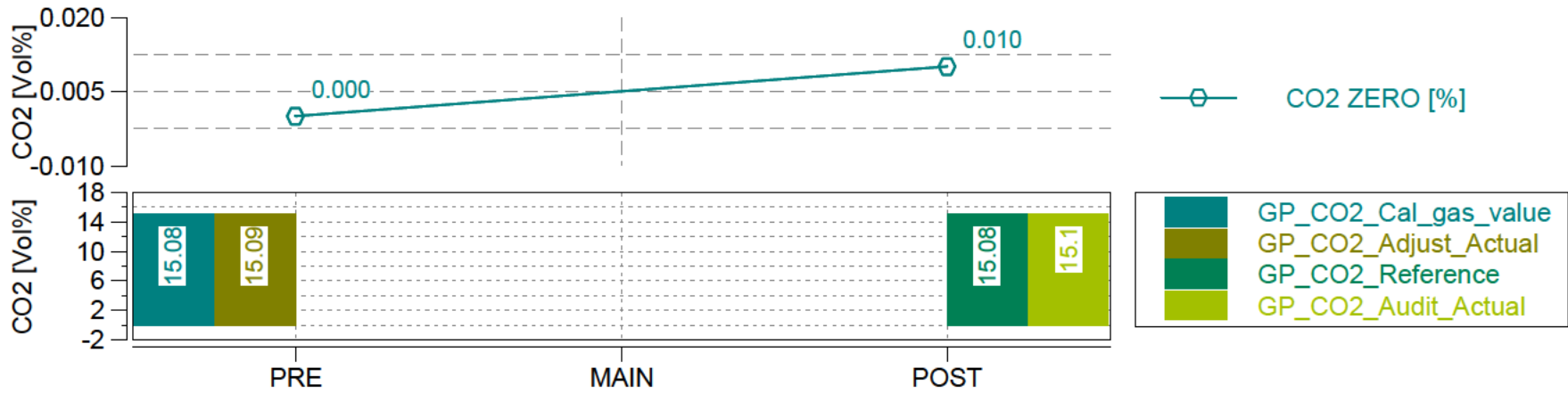
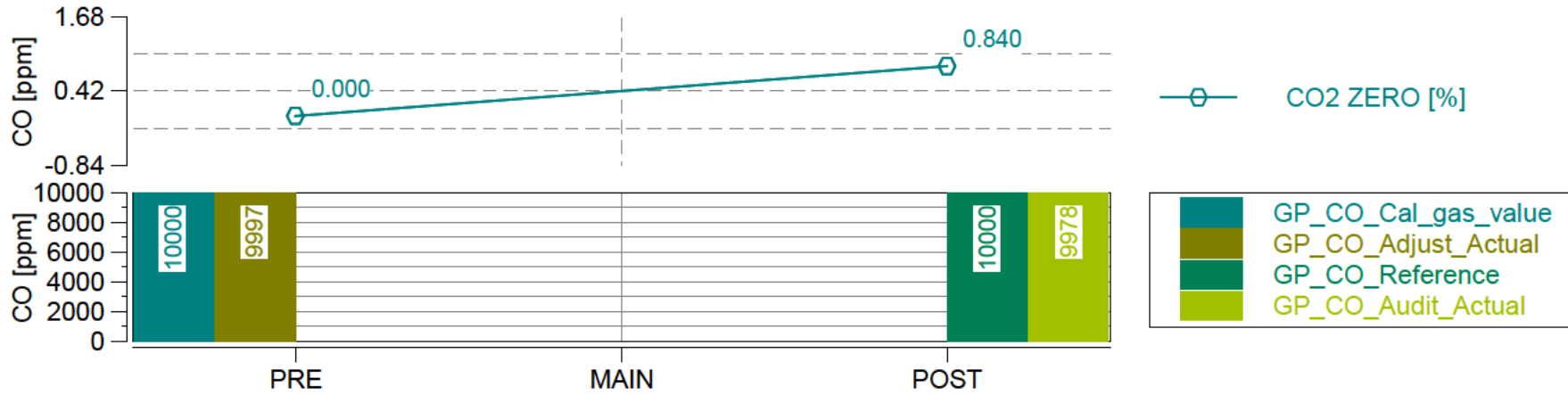
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Legislation:

Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



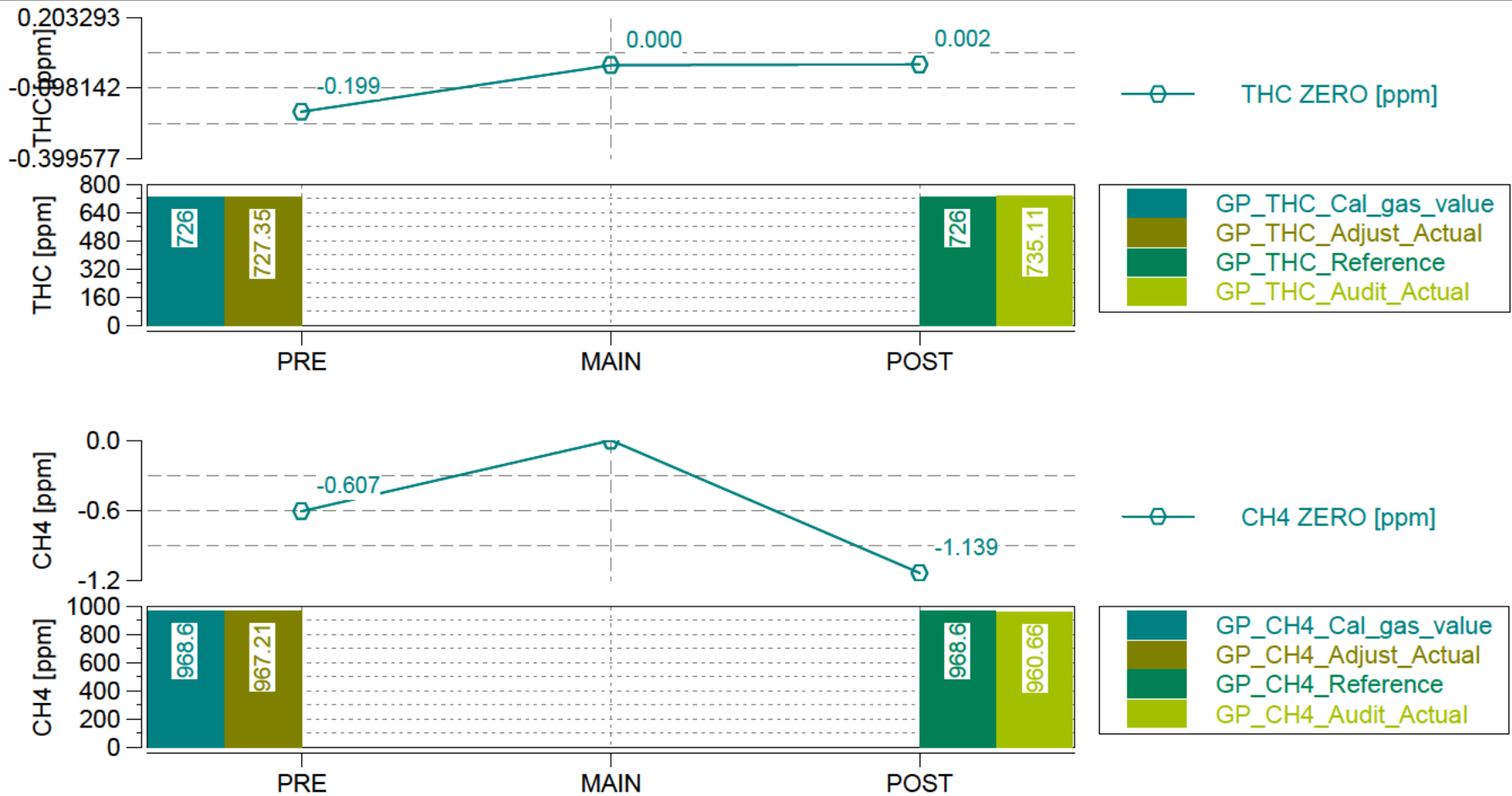
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 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Arteon / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City
Page: Trip Summary

'City'
Start Date: 09/27/2019
Start Time: 13:24:57.0



Trip Duration	3466.00	s	ave THC	4.61402	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3466.00	s	ave NMHC	4.52174	ppm	BS CO	n/a	g/hphr
Trip Distance	15.76	mi	ave CH4	0.09228	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	15.76	mi	ave CO	5.90829	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	12.28451	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	14.44063	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.56	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.53	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	17.46	mpg_US	tot THC	0.12212	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	17.65	mpg_US	tot NMHC	0.11297	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.00271	g	DS CO2	487.93259	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	0.41452	g	DS CO	0.02630	g/mi
Trip Fuel Economy EU GGE (ac)	17.46	mpg_US	tot CO2	7691.43724	g	DS THC	0.00775	g/mi
Trip Fuel Economy US GGE (ac)	17.65	mpg_US	tot NO (d)	0.75513	g	DS NMHC	0.00717	g/mi
Trip Av. Eng. Speed	1331.46	rpm	tot NO2	0.04686	g	DS CH4	0.00017	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.80199	g	DS NO (d)	0.04790	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00297	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.05088	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	40.38	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	75.64	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	59.03	%	Trip Av. Veh. Speed	16.37275	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	76.06	m	Trip Velocity Zero	28.88055	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	75.65923	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	8.03245	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	16.30832	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0



Concerto M.O.V.E, 2019

Trip Duration	3466.00	s	ave THC DC	3.73610	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3466.00	s	ave NMHC DC	3.66138	ppm	BS CO DC	n/a	g/hphr
Trip Distance	15.76	mi	ave CH4 DC	0.07472	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	15.76	mi	ave CO DC	5.50328	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	12.28435	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	14.42900	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	2.56	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.53	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.10385	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	17.46	mpg_US	tot NMHC DC	0.09607	g			
Trip Fuel Economy US (ac)	17.65	mpg_US	tot CH4 DC	0.00230	g	DS CO2 DC	487.92850	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	0.39800	g	DS CO DC	0.02525	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	7691.37273	g	DS THC DC	0.00659	g/mi
Trip Fuel Economy EU GGE (ac)	17.46	mpg_US	tot NO DC (d)	0.75687	g	DS NMHC DC	0.00609	g/mi
Trip Fuel Economy US GGE (ac)	17.65	mpg_US	tot NO2 DC	0.04393	g	DS CH4 DC	0.00015	g/mi
			tot NOx DC	0.80080	g	DS NO DC (d)	0.04801	g/mi
Trip Av. Eng. Speed	1331.46	rpm	tot Soot	n/a	g	DS NO2 DC	0.00279	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.05080	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	40.38	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	16.37275	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	75.64	deg_F	Trip Velocity Zero	28.88055	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	59.03	%	Trip Velocity Urban	75.65923	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	76.06	m	Trip Velocity Rural	8.03245	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	16.30832	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Time Alignment Check

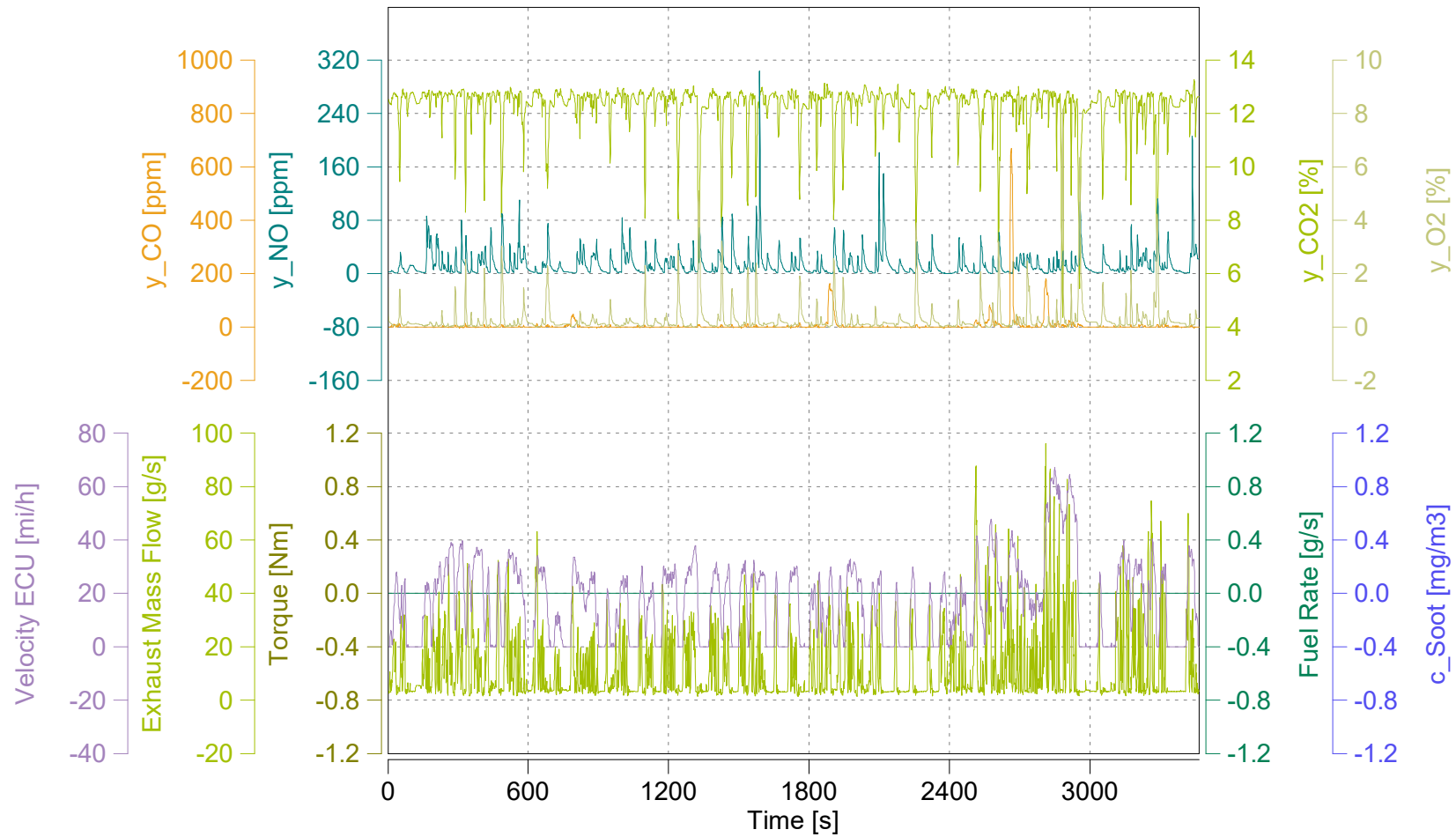
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0



Concerto M.O.V.E., 2019



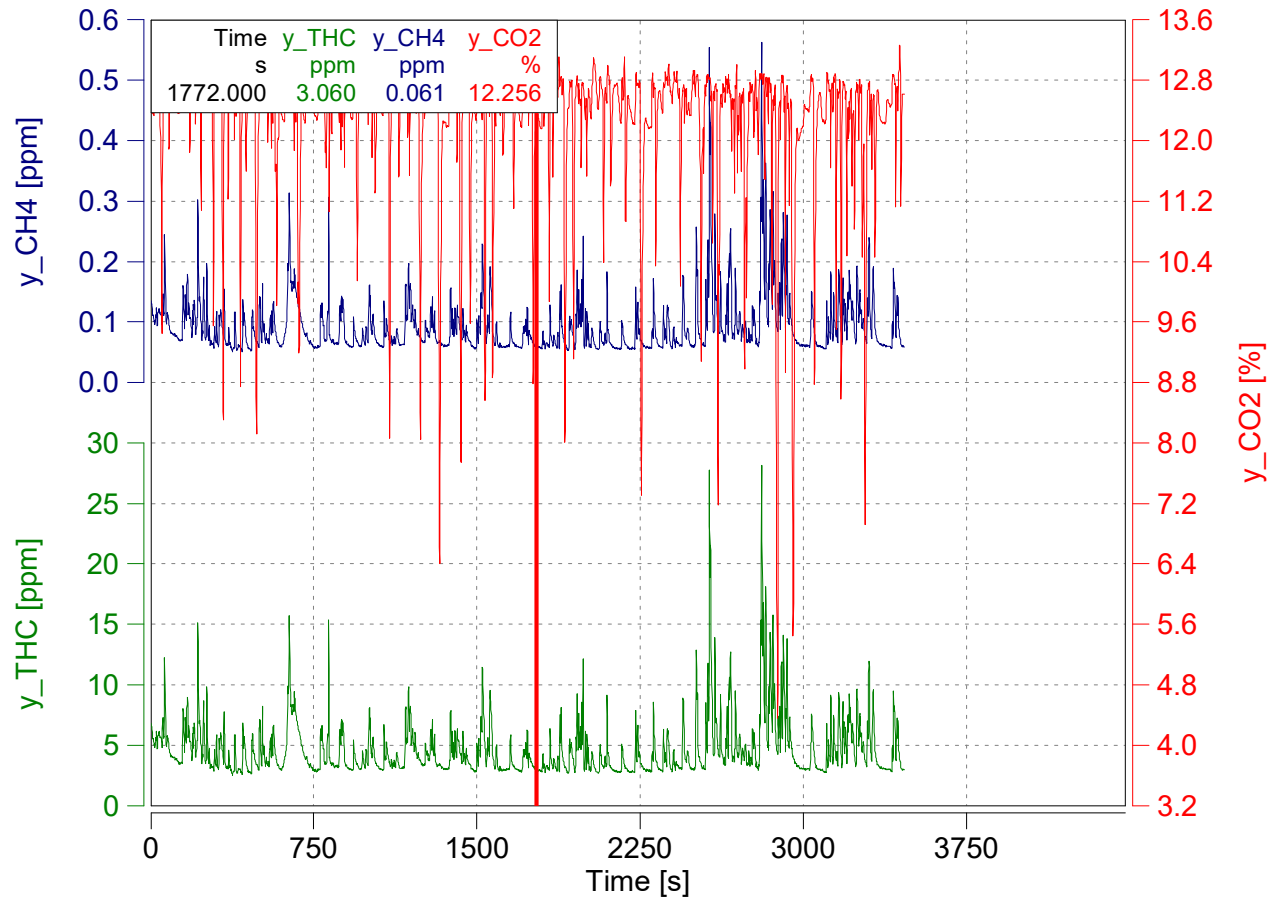
Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1 Engine: /

Legislation:

Vehicle: A6 / 2.0 L

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-4.3
y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Ambient Conditions

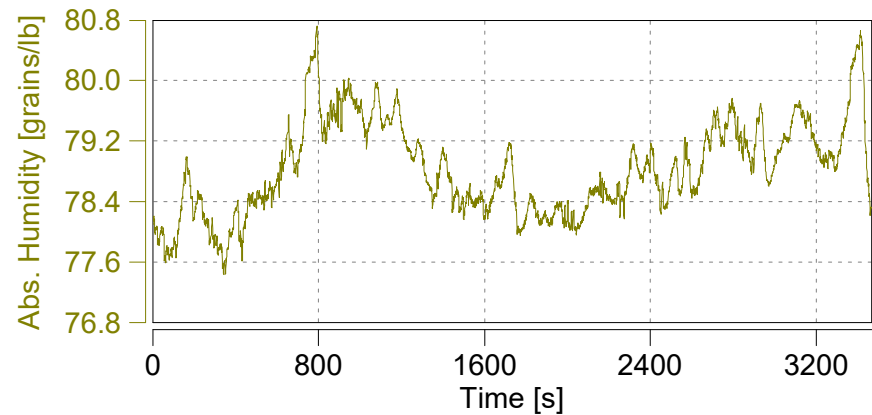
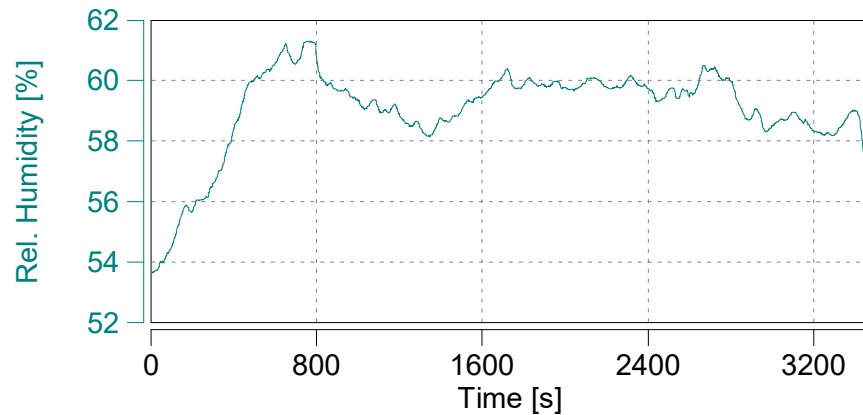
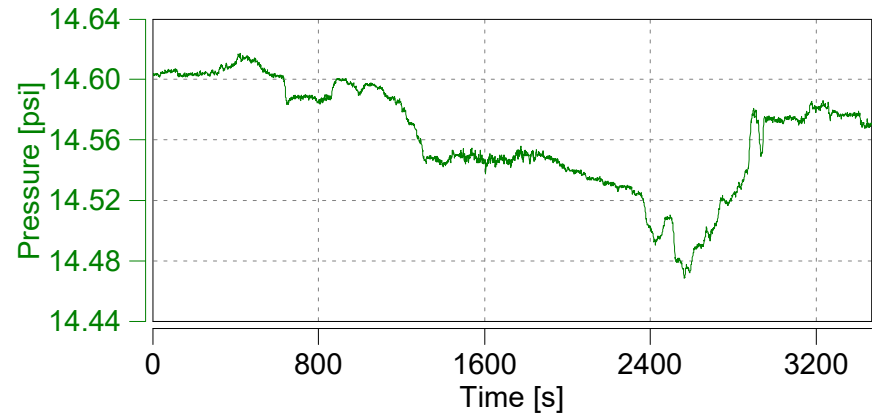
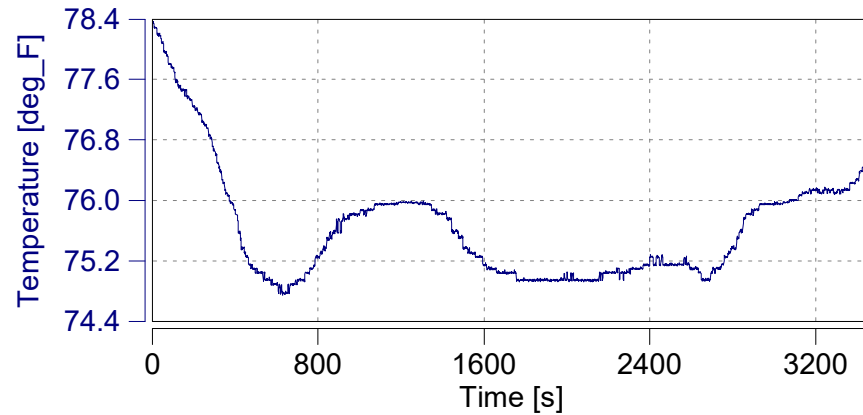
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0

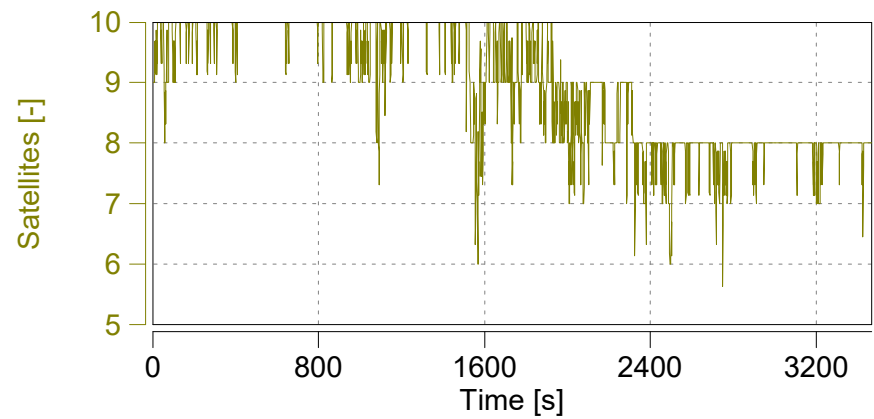
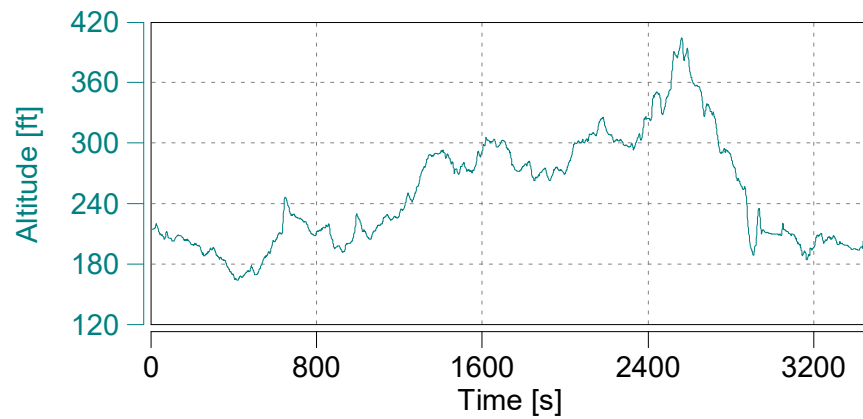
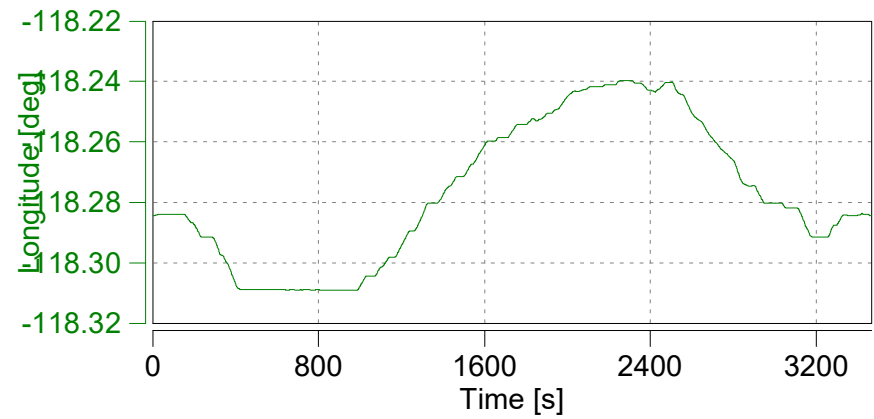
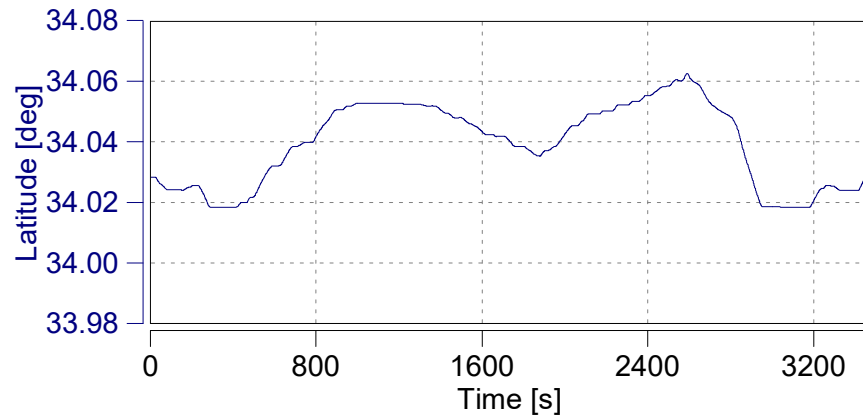


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (1)

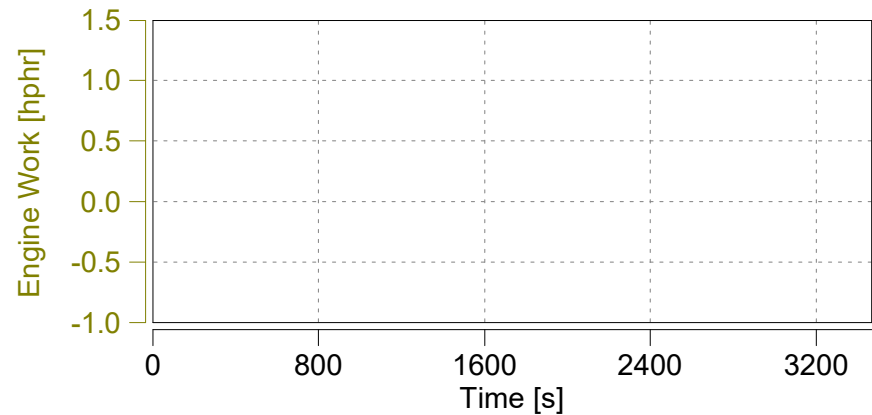
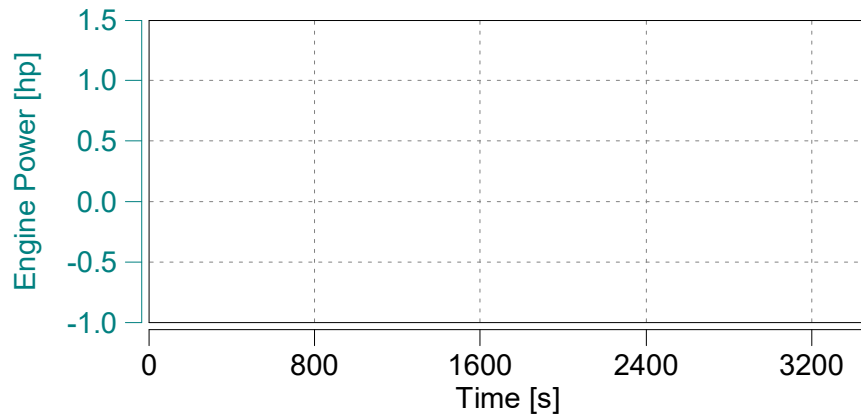
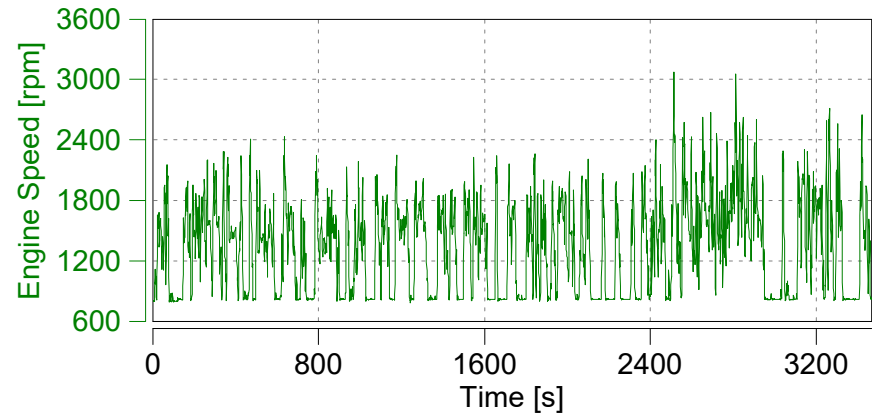
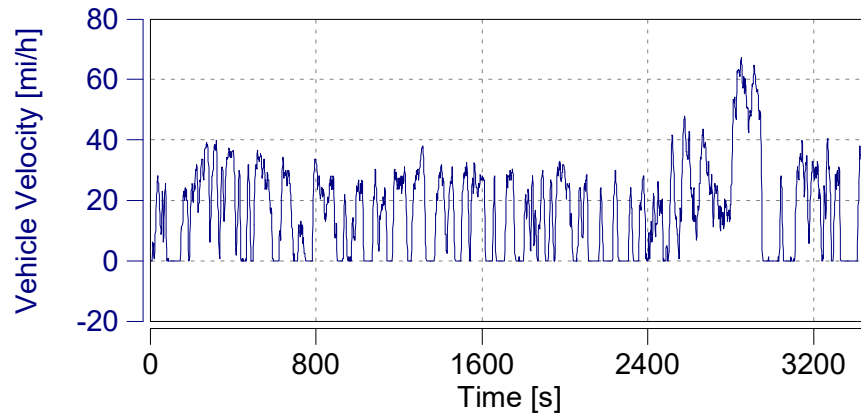
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0

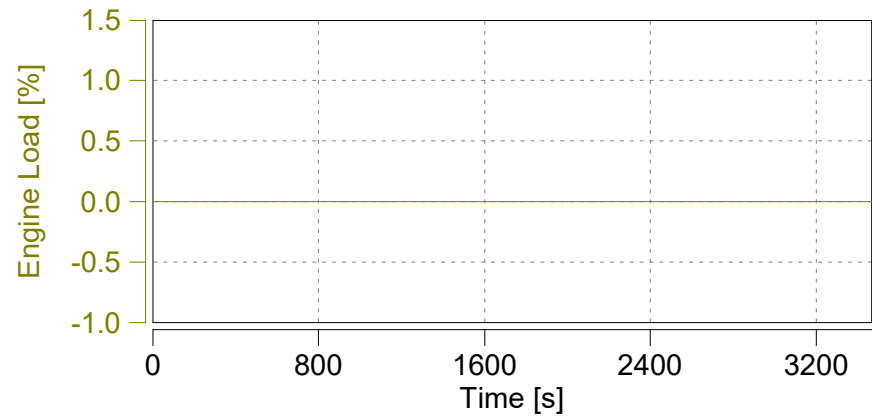
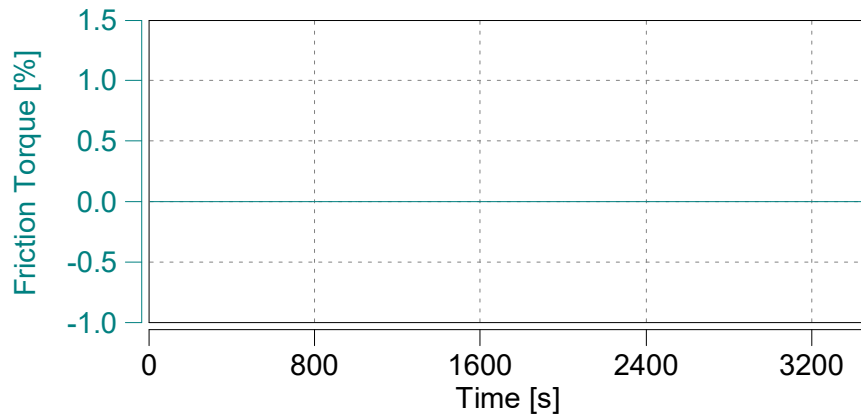
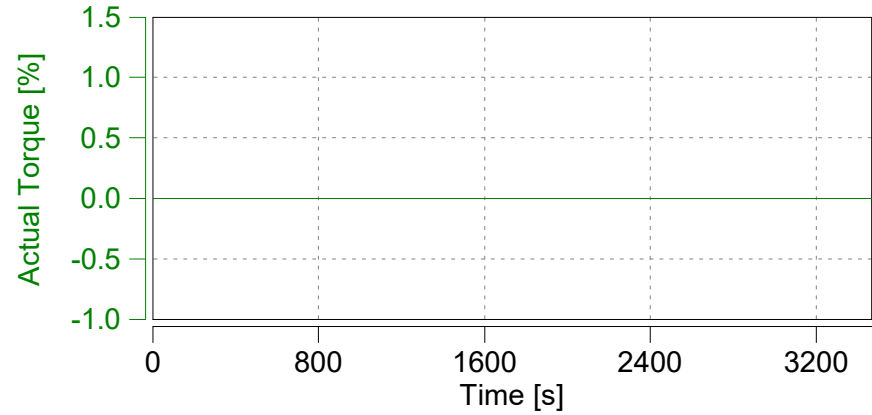
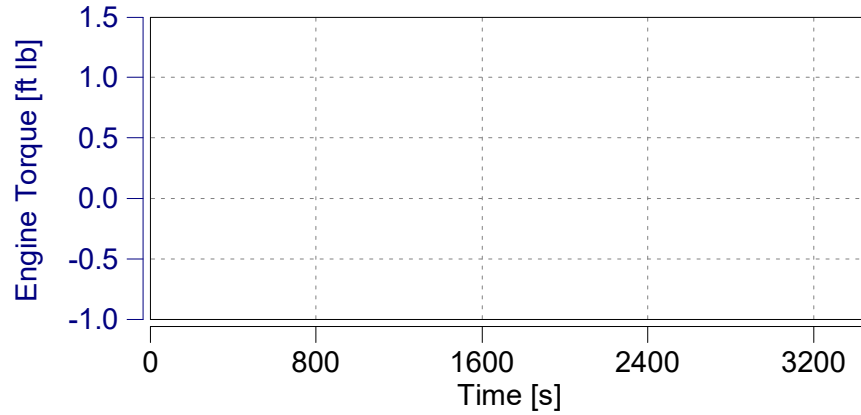


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
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Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (3)

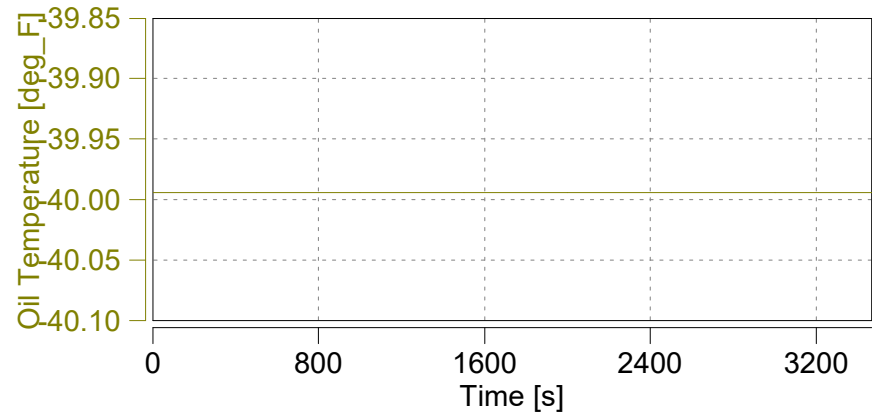
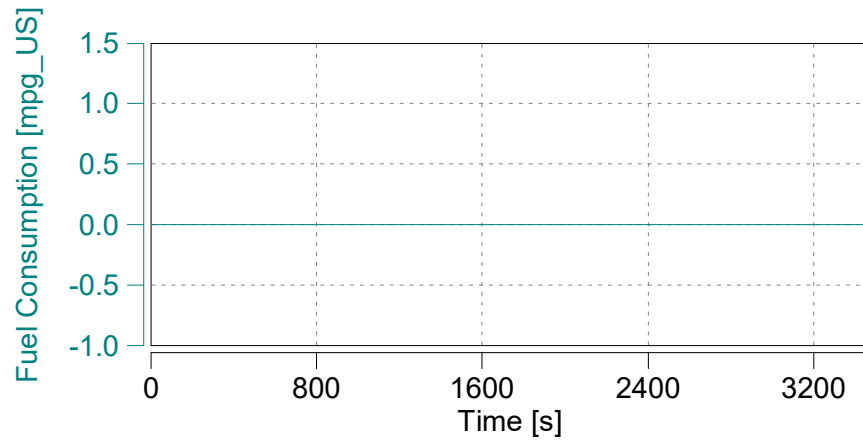
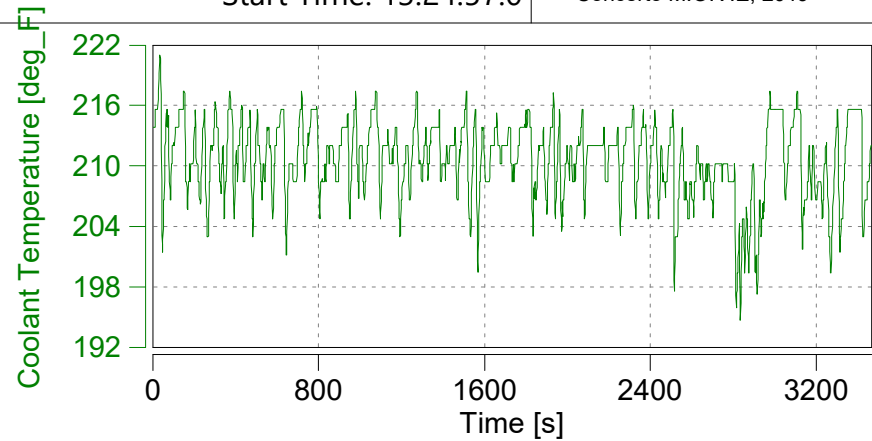
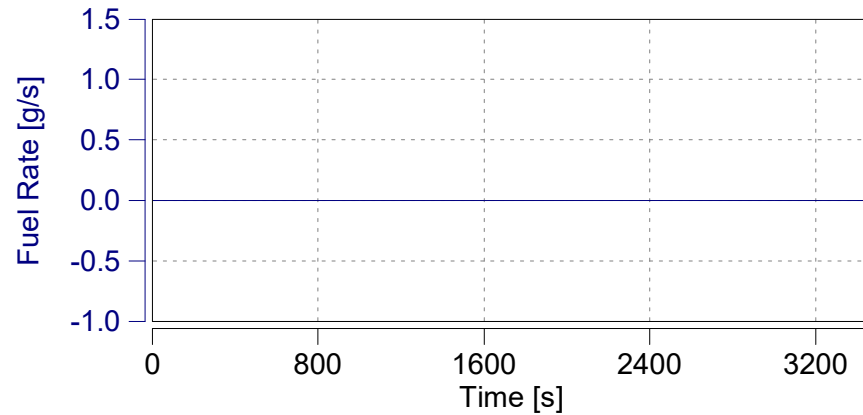
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

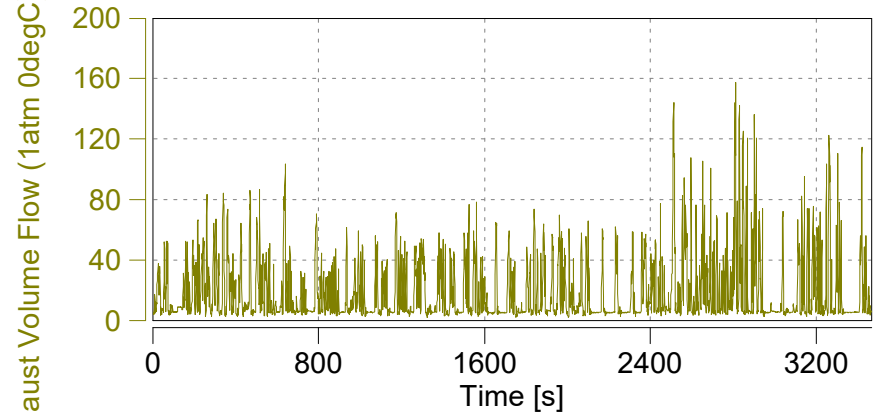
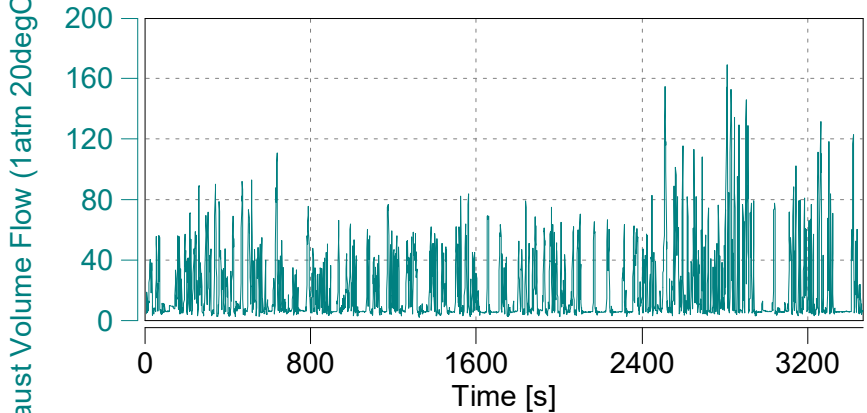
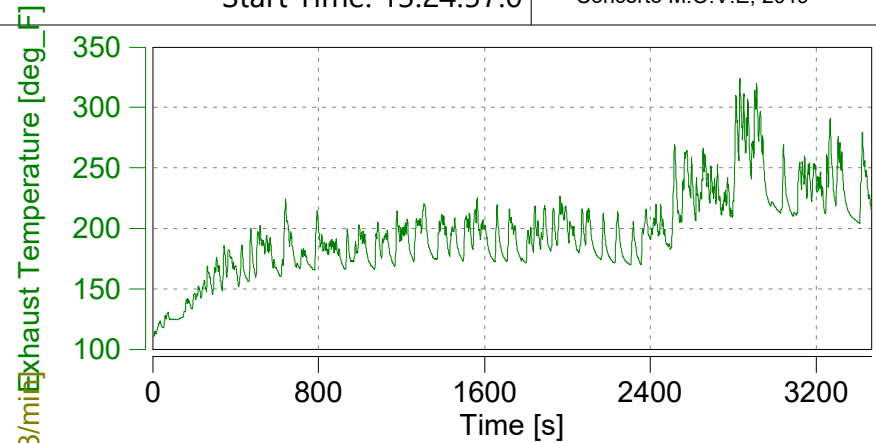
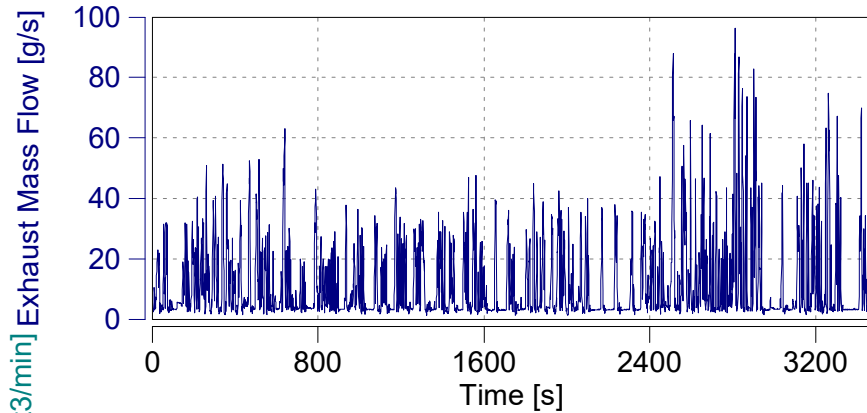
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (2)

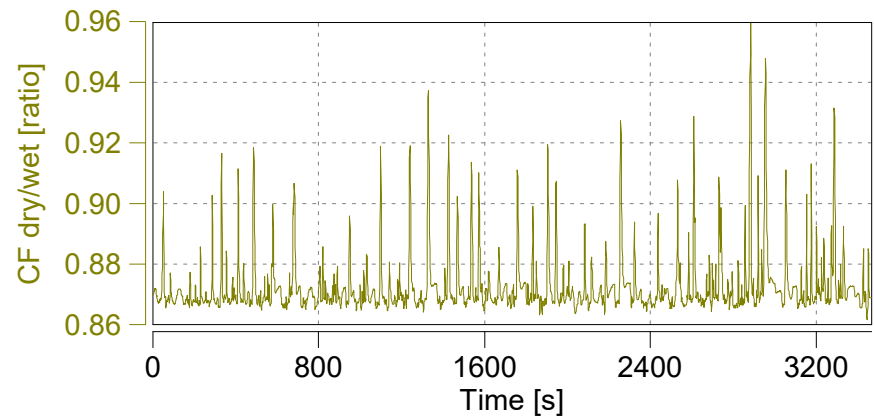
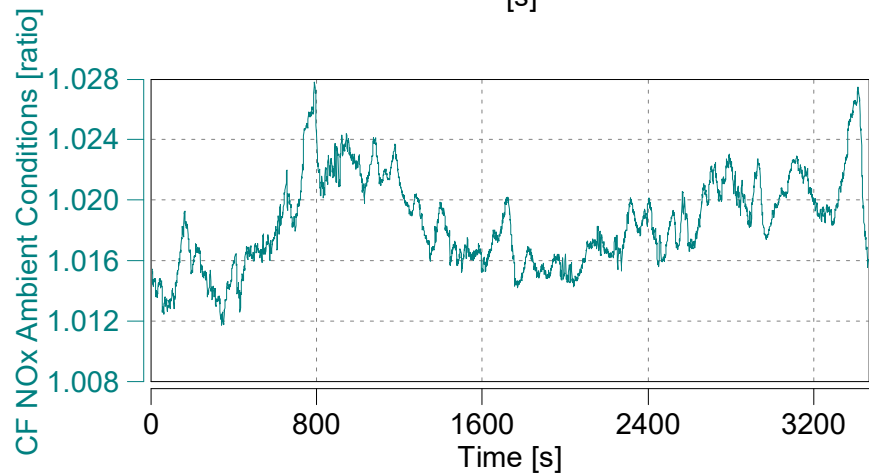
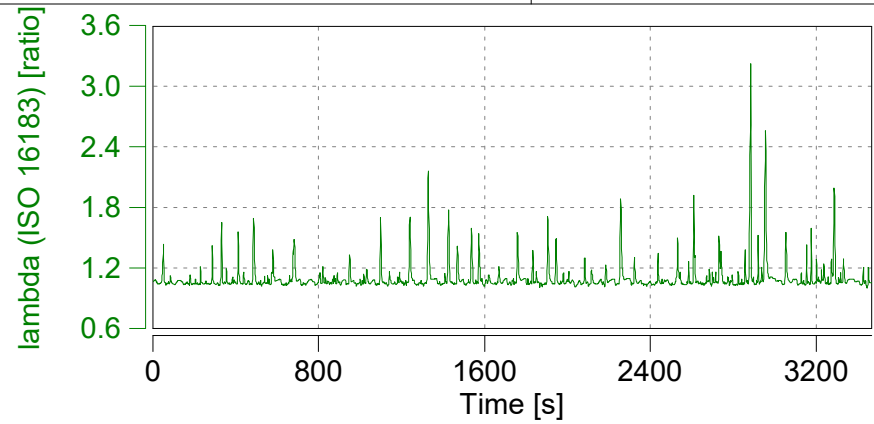
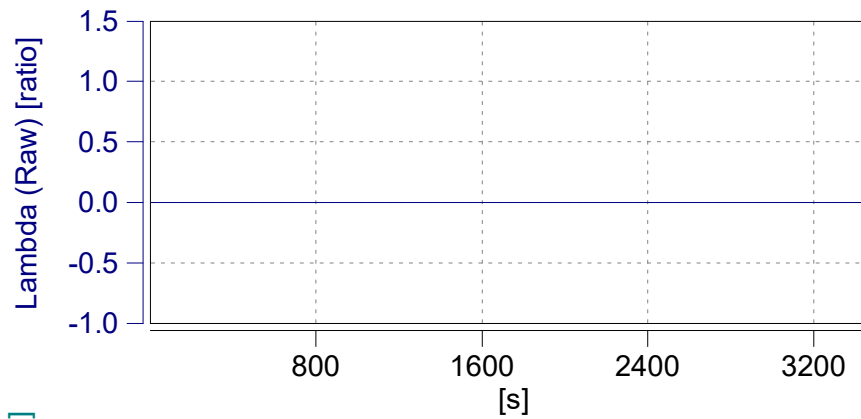
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

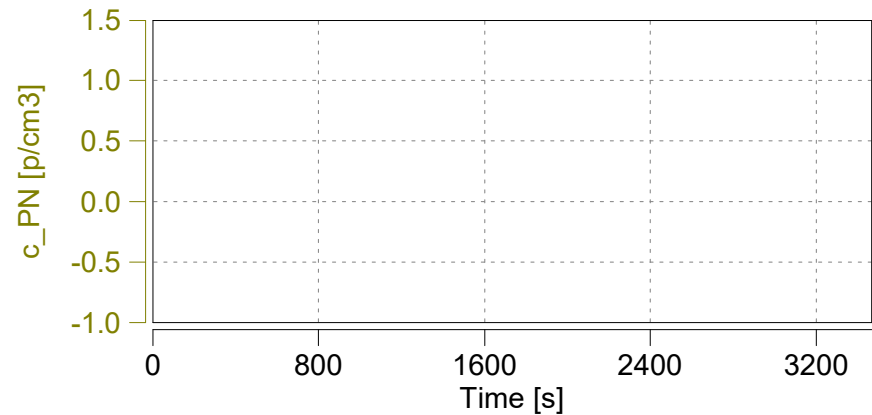
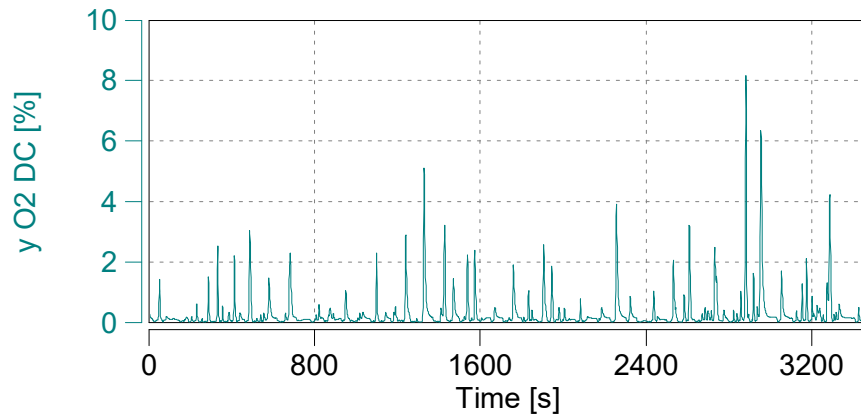
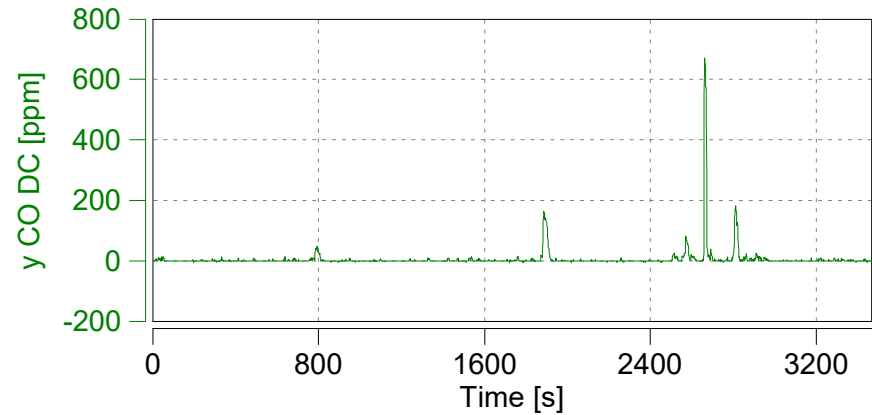
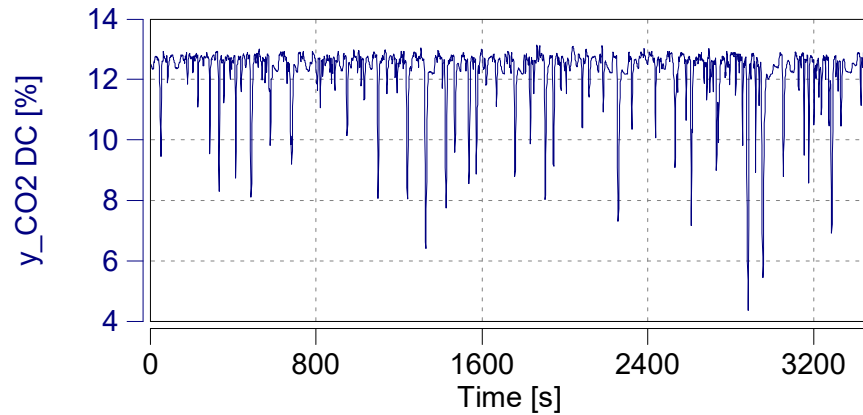
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0



Concerto M.O.V.E, 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

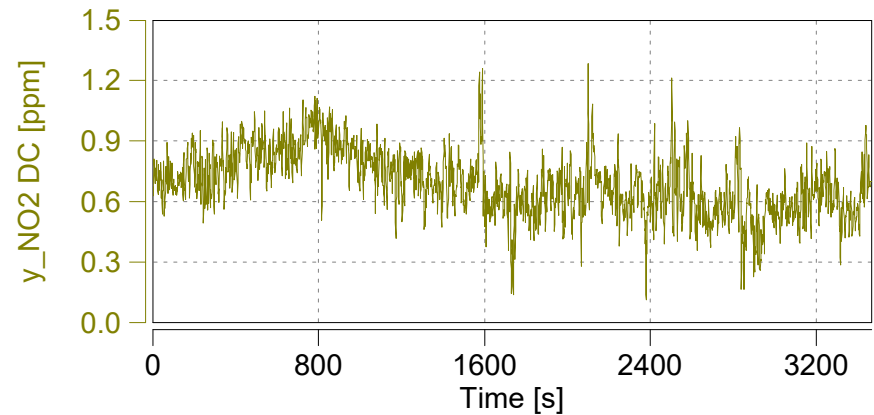
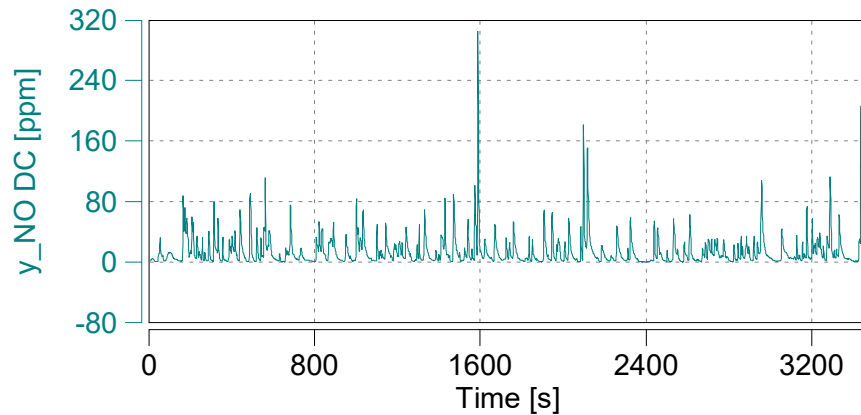
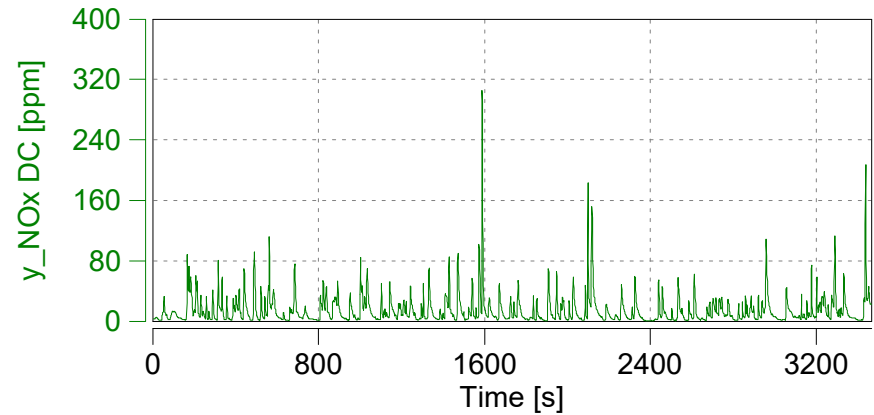
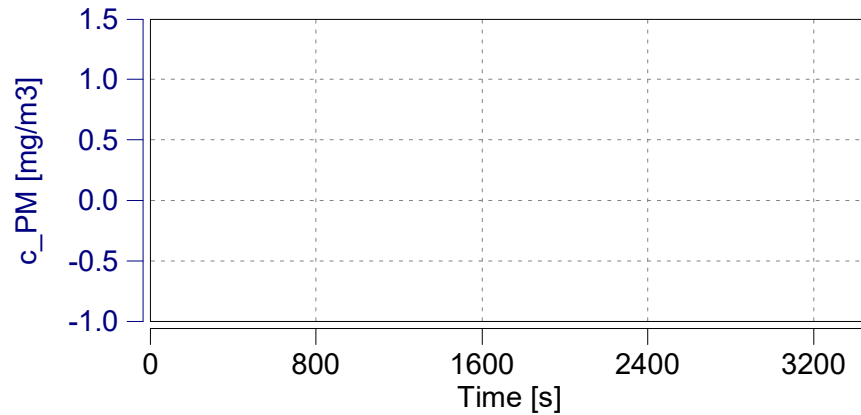
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0

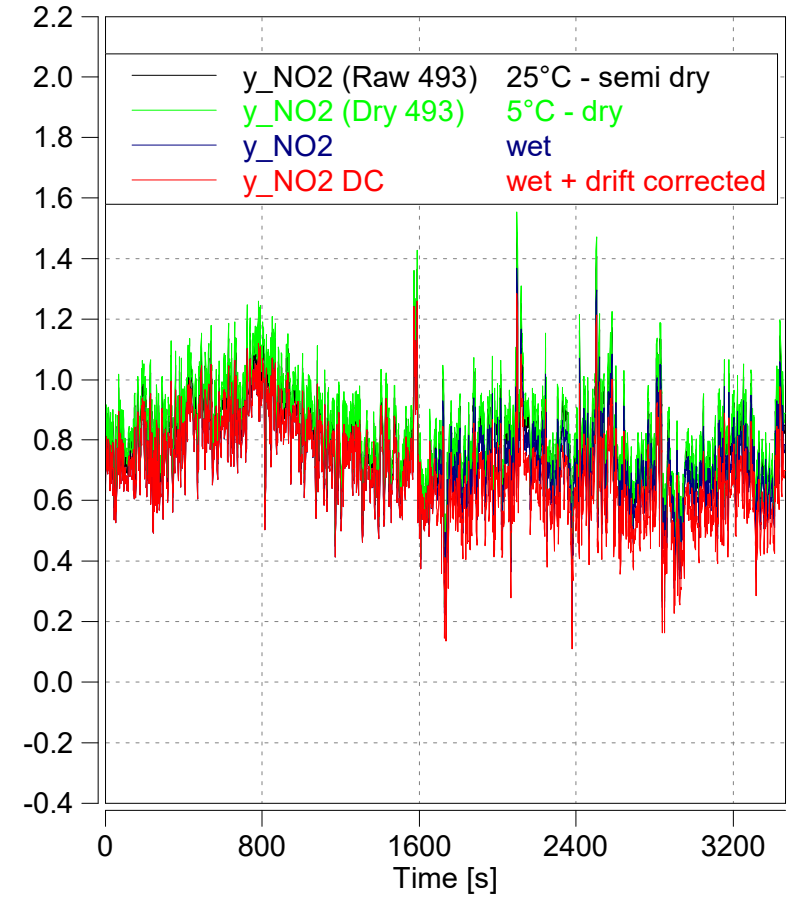
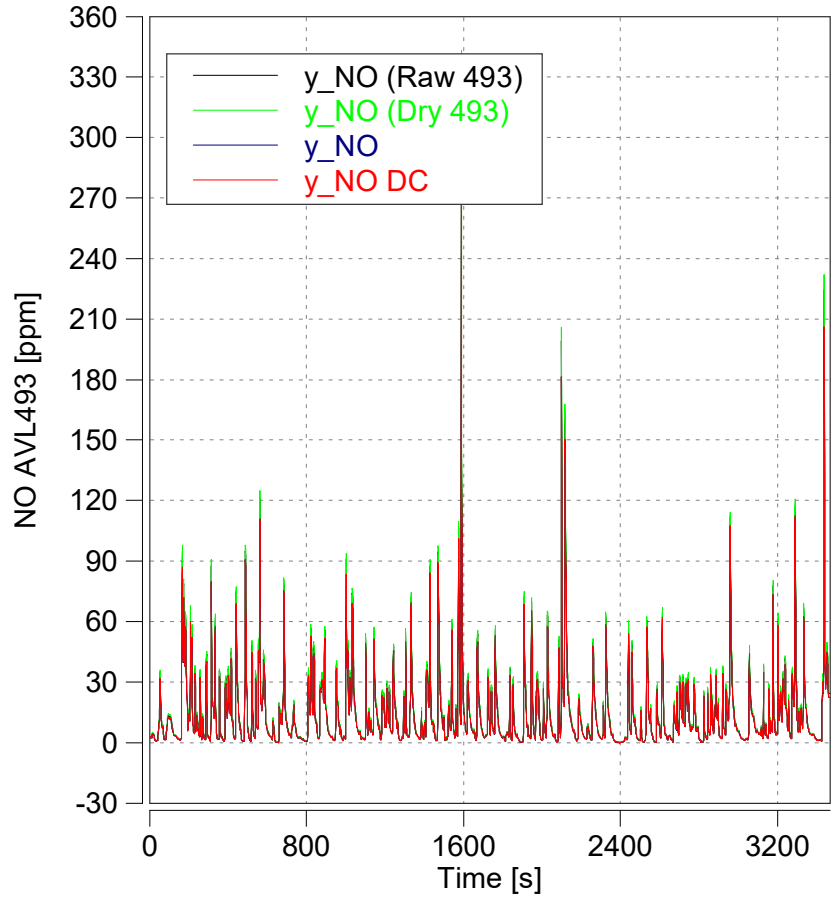


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

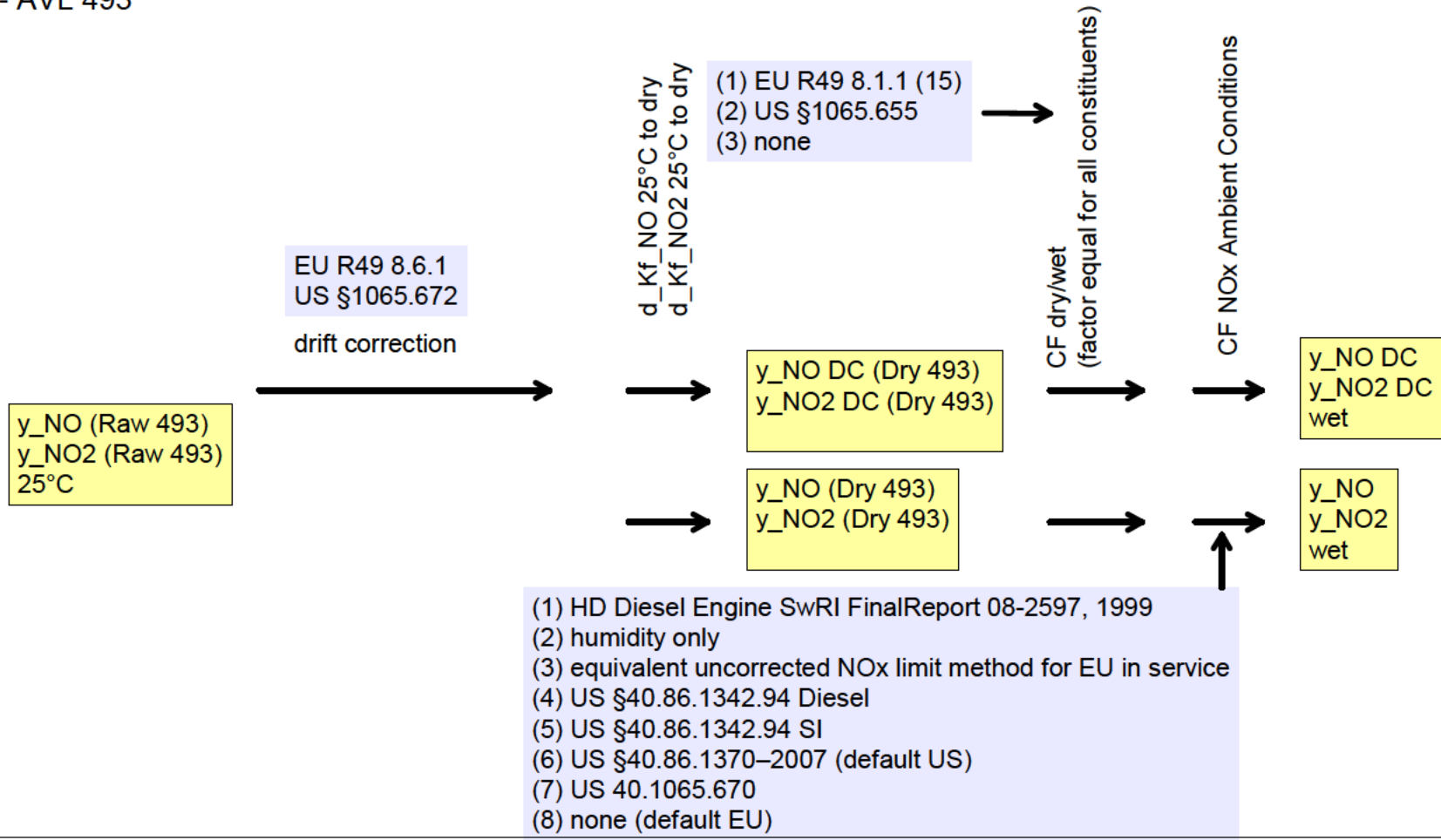


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (5)

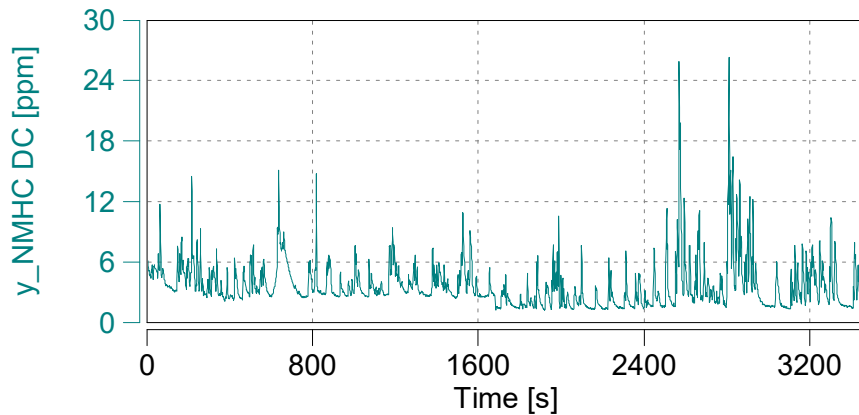
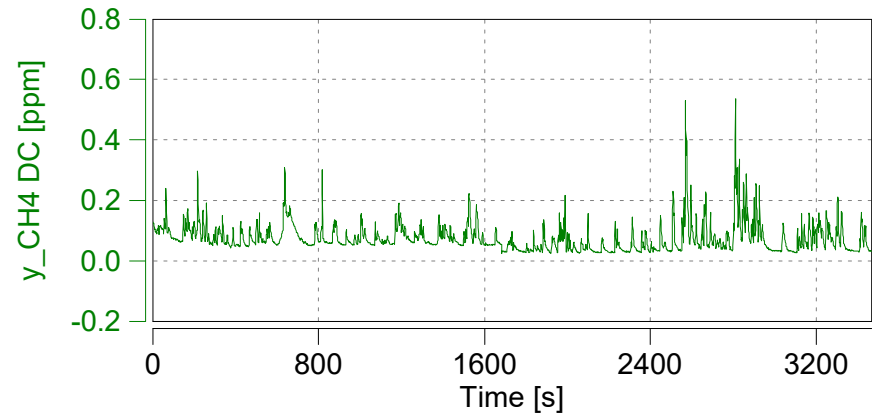
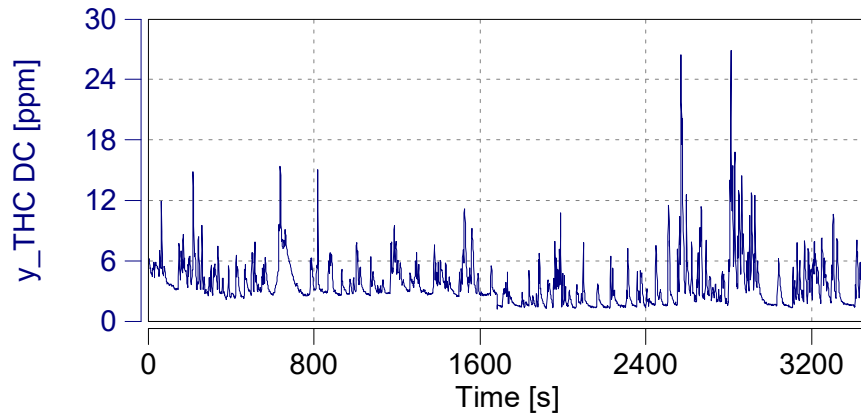
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1

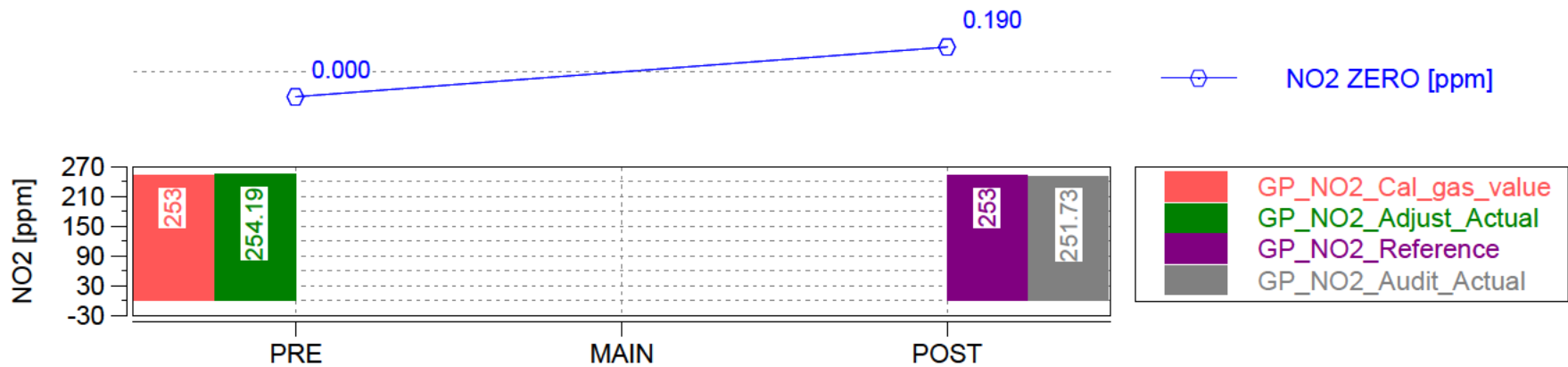
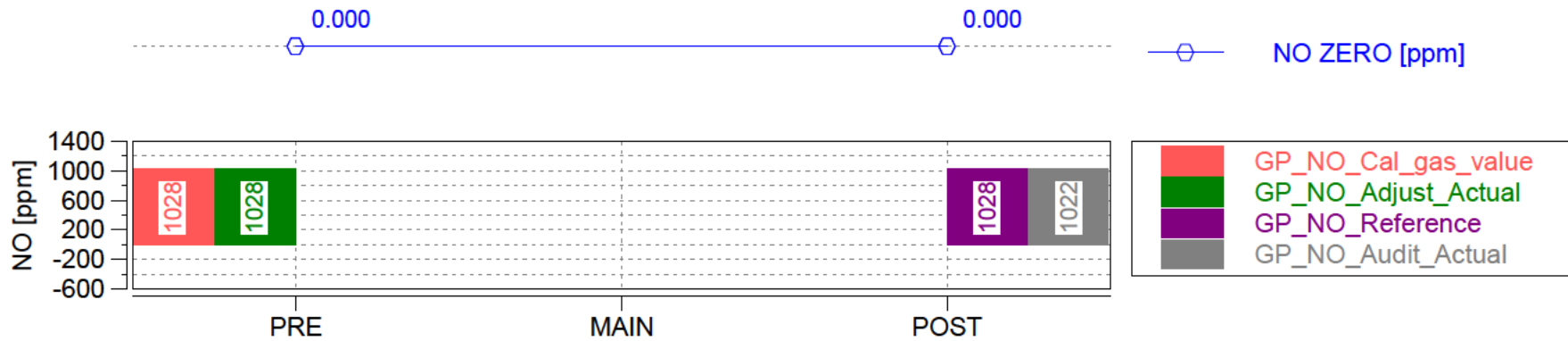
Legislation:

Vehicle: A6 / 2.0 L

Engine: /

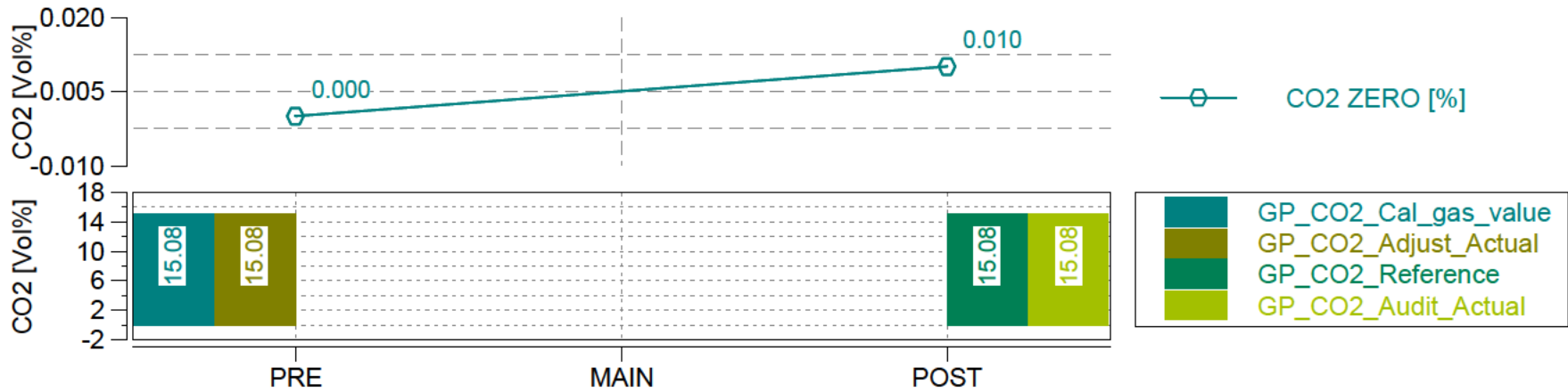
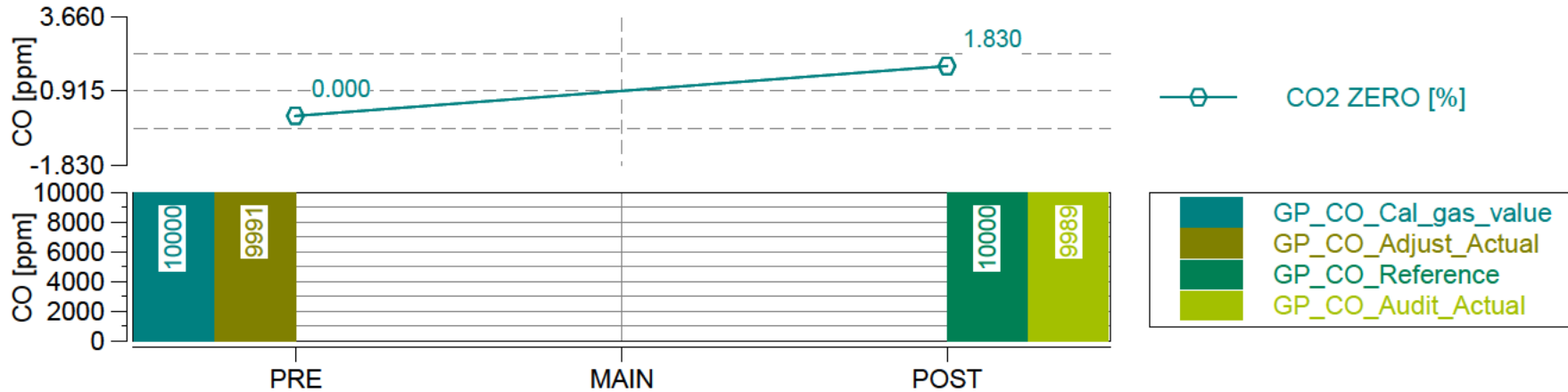
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90



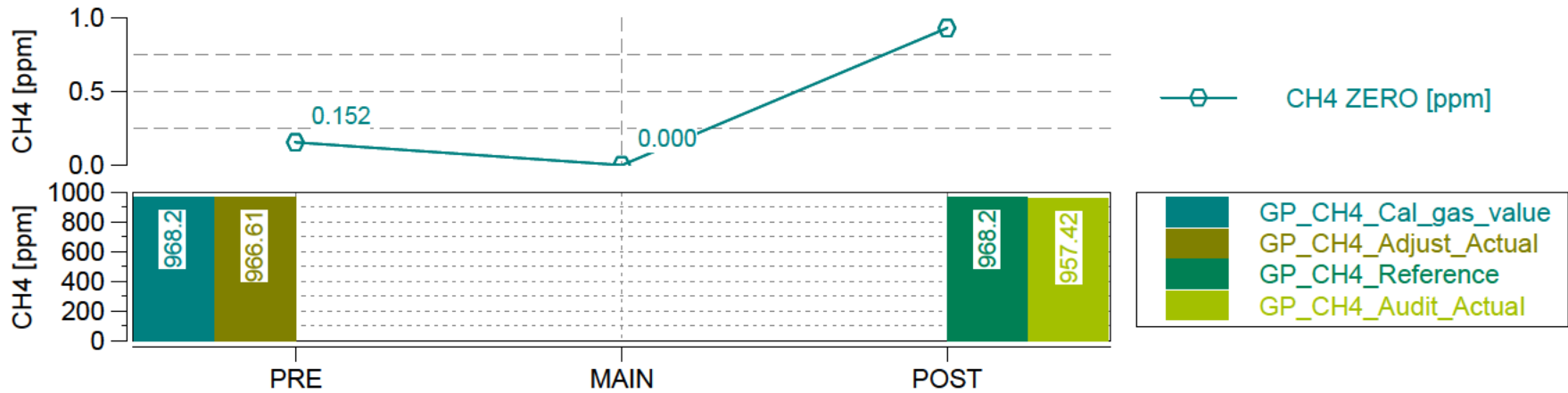
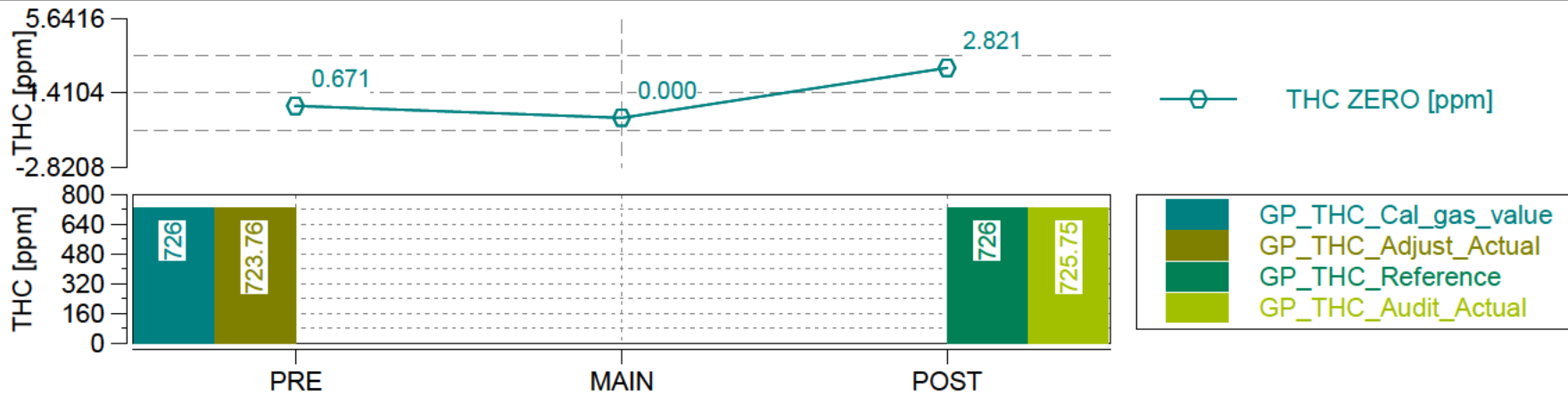
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 09/30/2019
Start Time: 14:19:09.0



Trip Duration	2691.00	s	ave THC	7.39715	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2691.00	s	ave NMHC	7.24921	ppm	BS CO	n/a	g/hphr
Trip Distance	37.92	mi	ave CH4	0.14794	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	37.92	mi	ave CO	100.60466	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	11.97150	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	6.19696	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.08	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.06	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	26.33	mpg_US	tot THC	0.17251	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	26.44	mpg_US	tot NMHC	0.15957	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.00382	g	DS CO2	321.88226	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	3.86085	g	DS CO	0.10181	g/mi
Trip Fuel Economy EU GGE (ac)	26.33	mpg_US	tot CO2	12206.89544	g	DS THC	0.00455	g/mi
Trip Fuel Economy US GGE (ac)	26.44	mpg_US	tot NO (d)	0.45925	g	DS NMHC	0.00421	g/mi
Trip Av. Eng. Speed	1601.26	rpm	tot NO2	-0.01194	g	DS CH4	0.00010	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.44731	g	DS NO (d)	0.01211	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	-0.00031	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.01180	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	64.67	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	75.36	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	40.34	%	Trip Av. Veh. Speed	50.73375	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	19.21	m	Trip Velocity Zero	15.53326	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	7.47910	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	1.49582	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	91.02508	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0



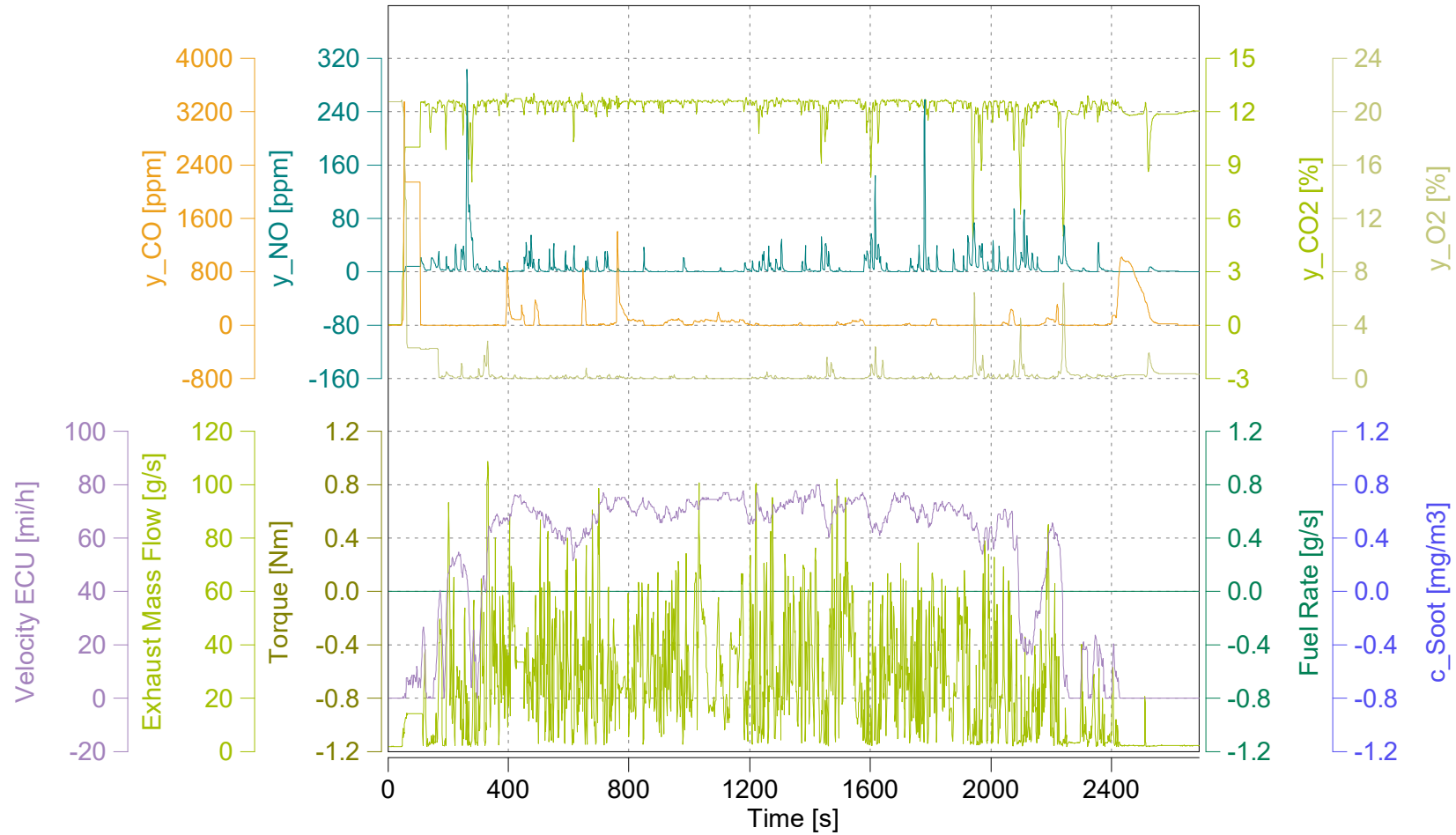
Concerto M.O.V.E., 2019

Trip Duration	2691.00	s	ave THC DC	7.40769	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2691.00	s	ave NMHC DC	7.25953	ppm	BS CO DC	n/a	g/hphr
Trip Distance	37.92	mi	ave CH4 DC	0.14815	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	37.92	mi	ave CO DC	100.48709	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	12.10799	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	6.21355	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.08	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.06	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.17343	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	26.33	mpg_US	tot NMHC DC	0.16043	g			
Trip Fuel Economy US (ac)	26.44	mpg_US	tot CH4 DC	0.00384	g	DS CO2 DC	325.55228	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	3.85633	g	DS CO DC	0.10169	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	12346.07534	g	DS THC DC	0.00457	g/mi
Trip Fuel Economy EU GGE (ac)	26.33	mpg_US	tot NO DC (d)	0.46043	g	DS NMHC DC	0.00423	g/mi
Trip Fuel Economy US GGE (ac)	26.44	mpg_US	tot NO2 DC	-0.01190	g	DS CH4 DC	0.00010	g/mi
			tot NOx DC	0.44853	g	DS NO DC (d)	0.01214	g/mi
Trip Av. Eng. Speed	1601.26	rpm	tot Soot	n/a	g	DS NO2 DC	-0.00031	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.01183	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	64.67	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	50.73375	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	75.36	deg_F	Trip Velocity Zero	15.53326	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	40.34	%	Trip Velocity Urban	7.47910	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	19.21	m	Trip Velocity Rural	1.49582	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	91.02508	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

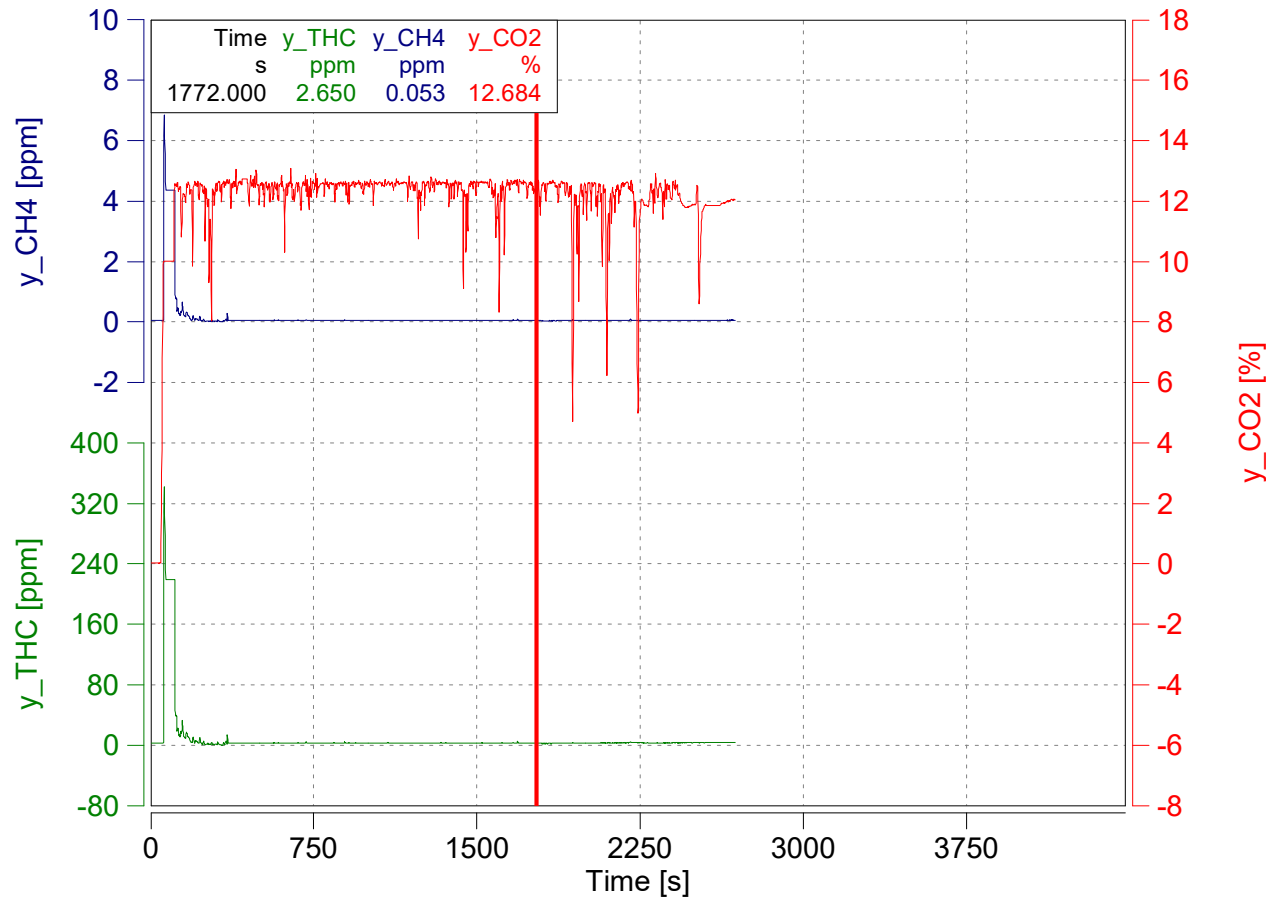
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

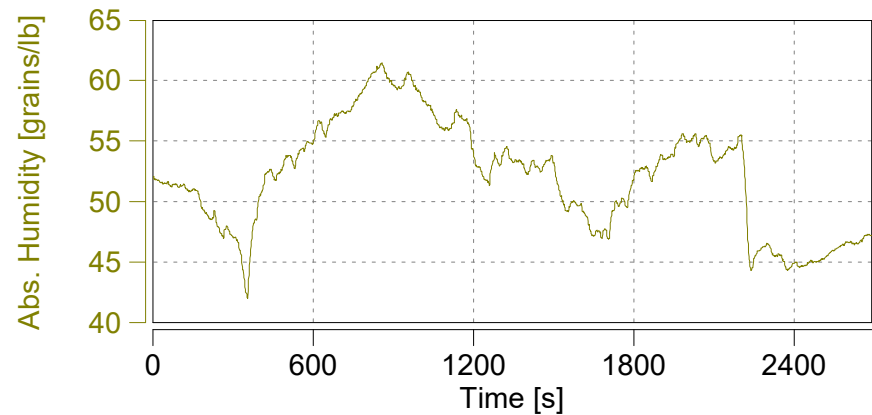
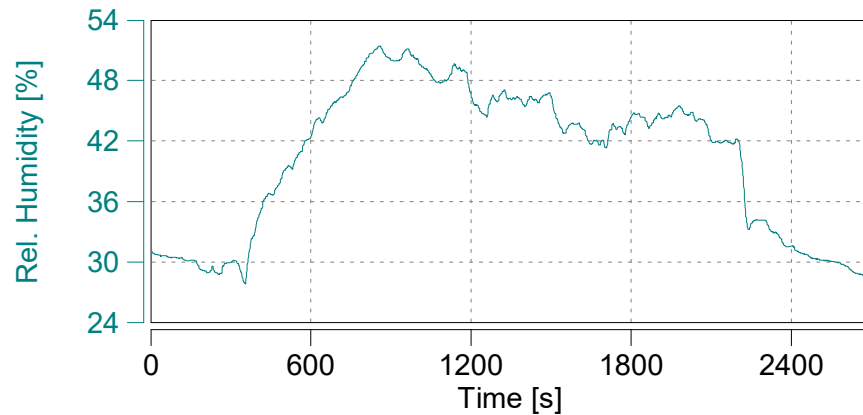
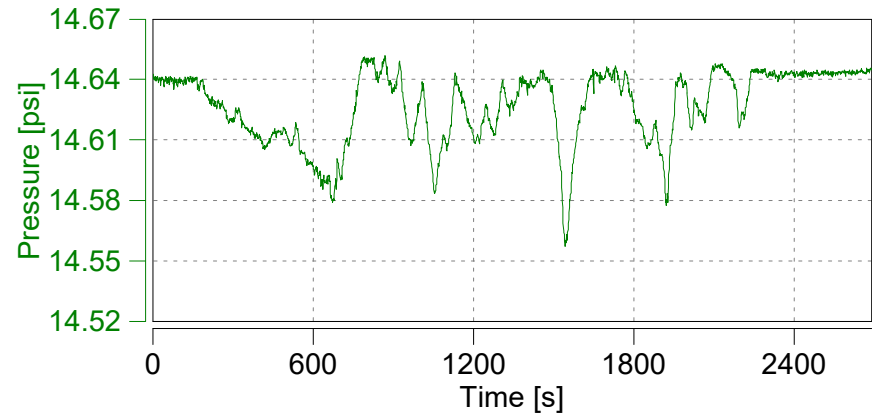
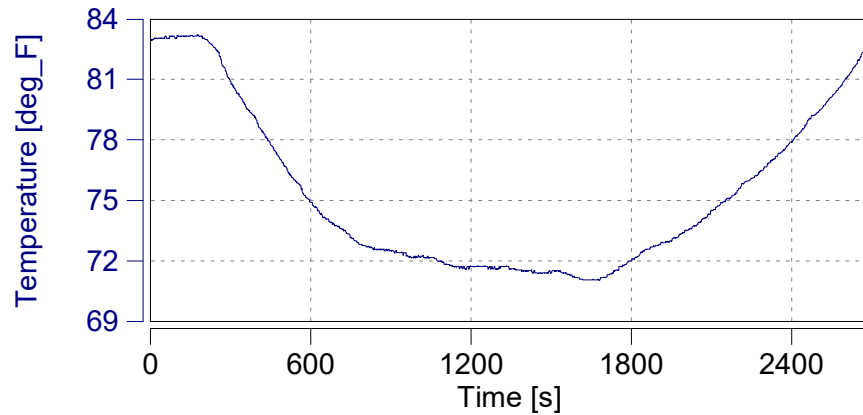
y_THC	s	-4.3
y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

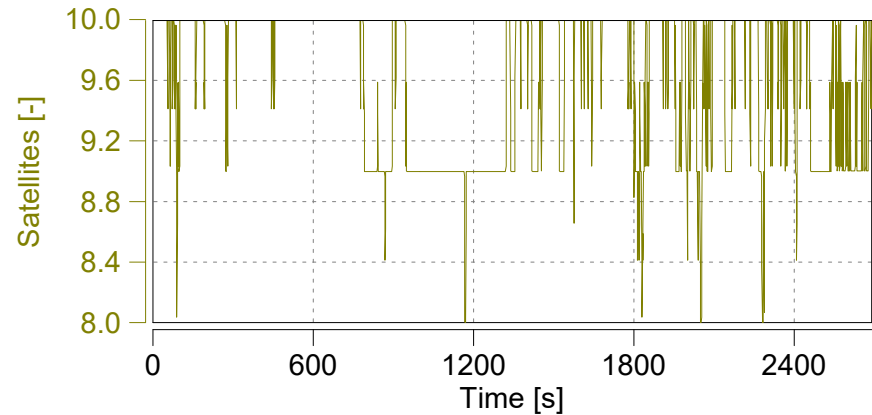
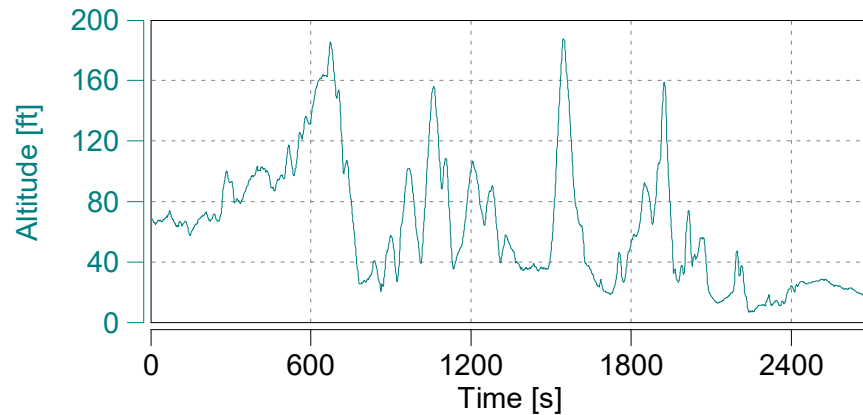
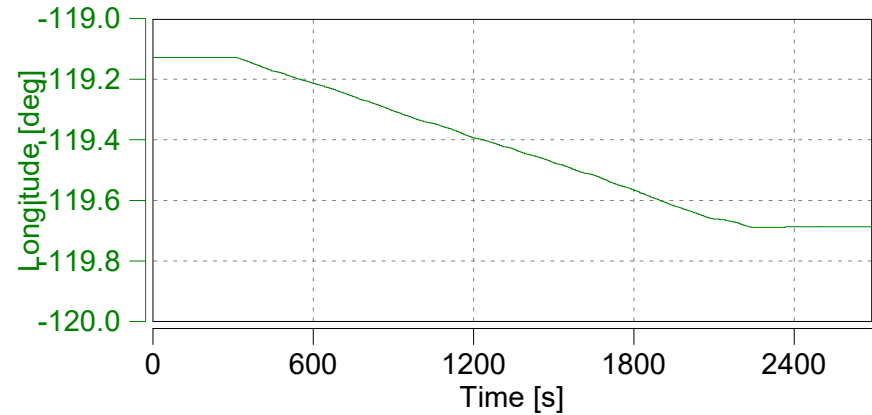
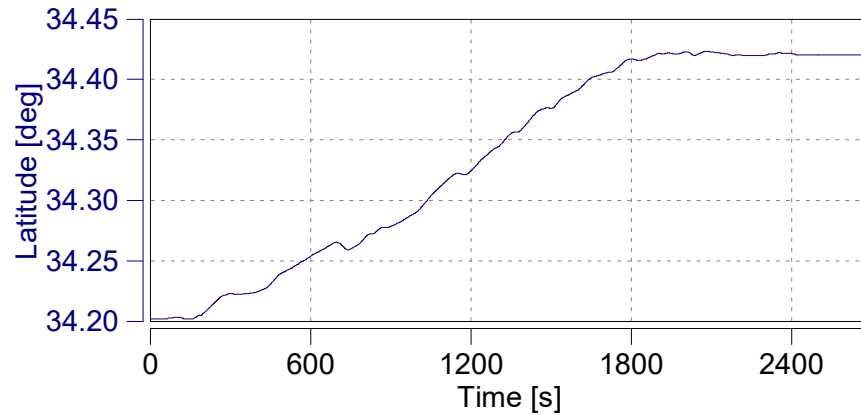
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0

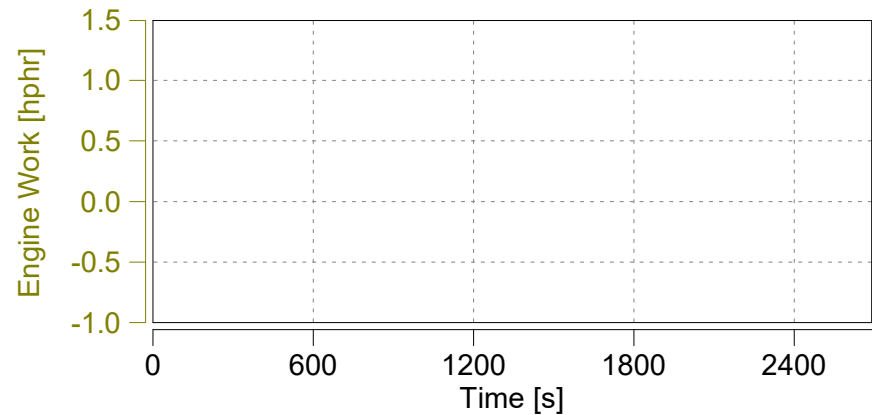
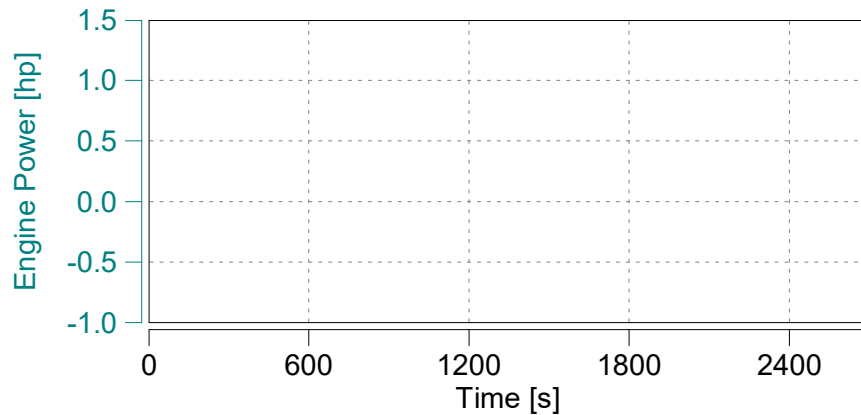
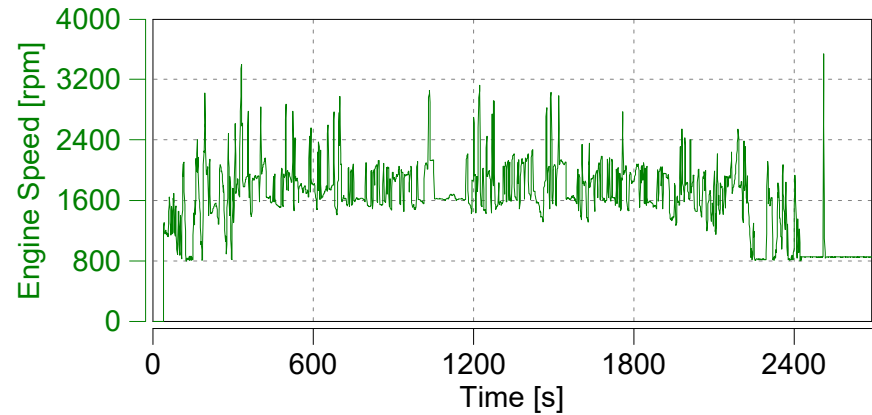
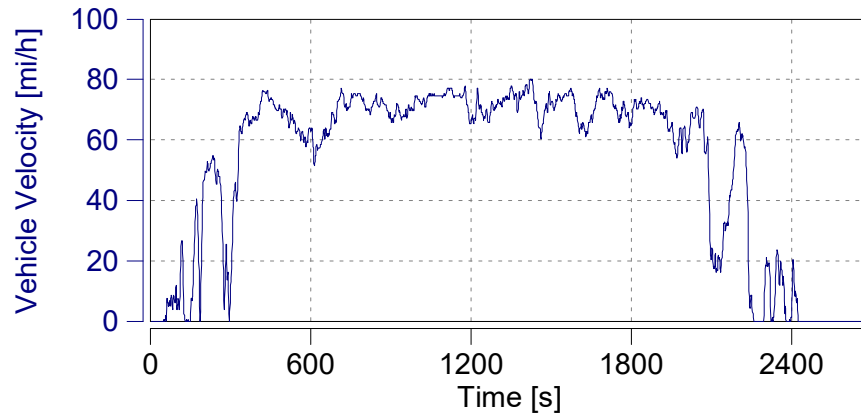


Concerto M.O.V.E., 2019



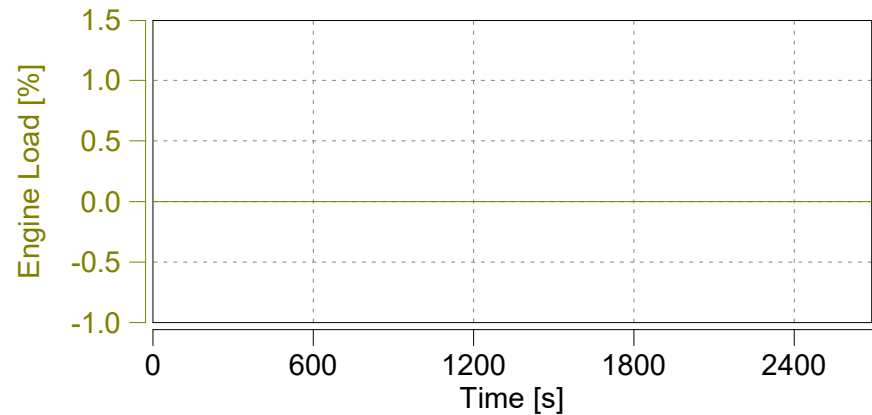
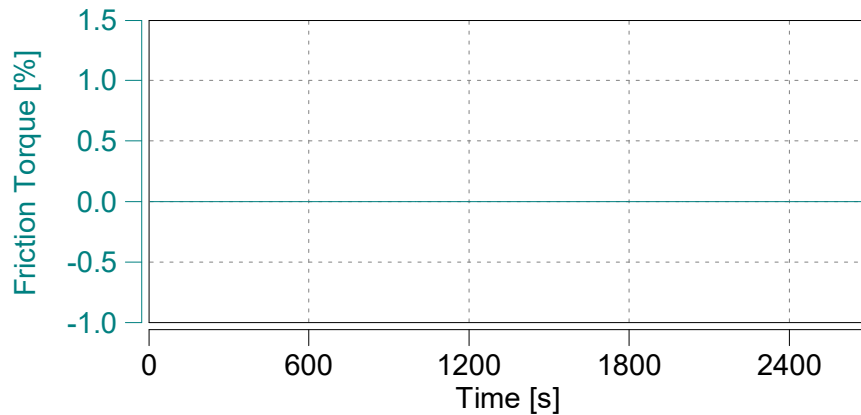
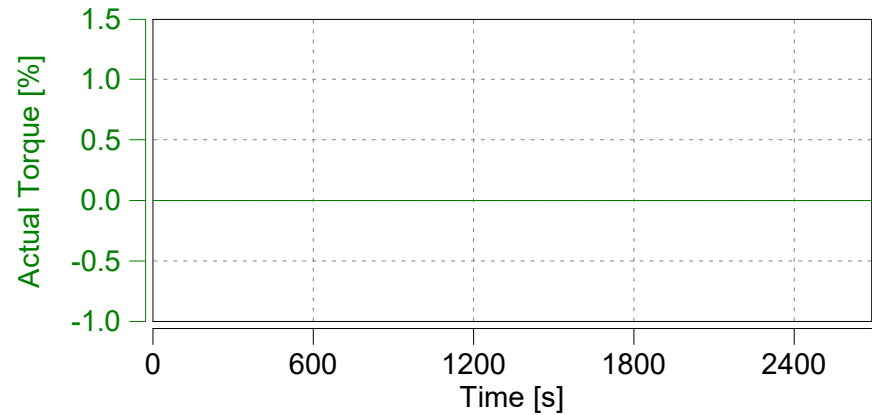
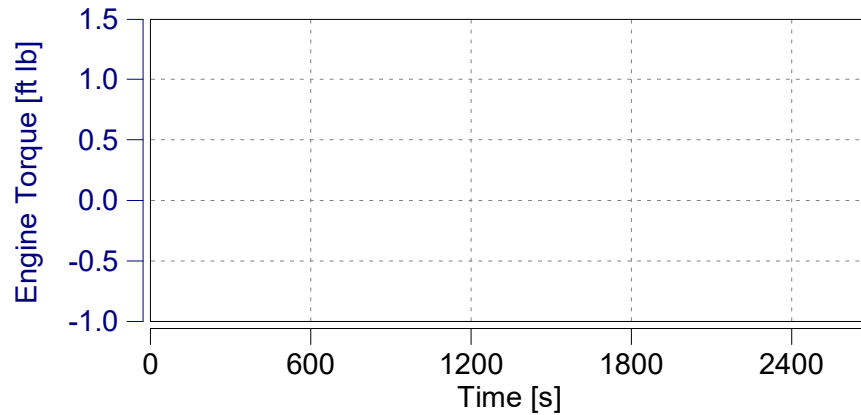
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



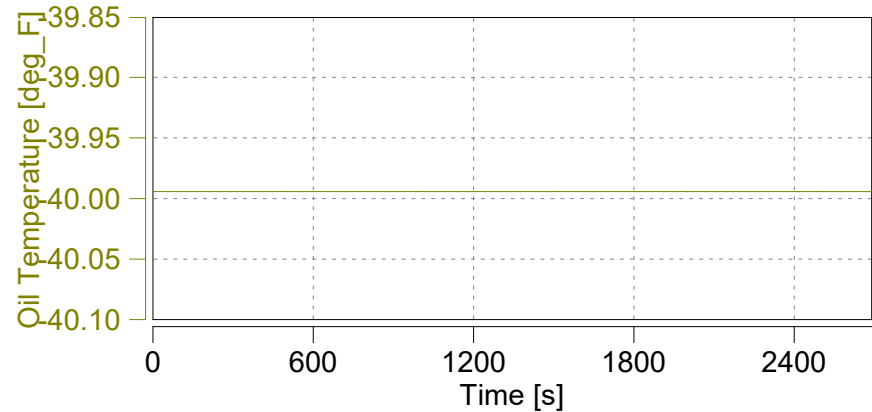
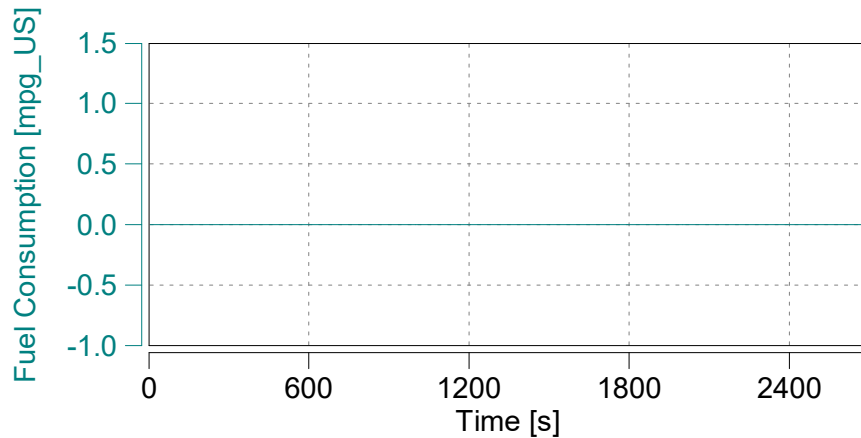
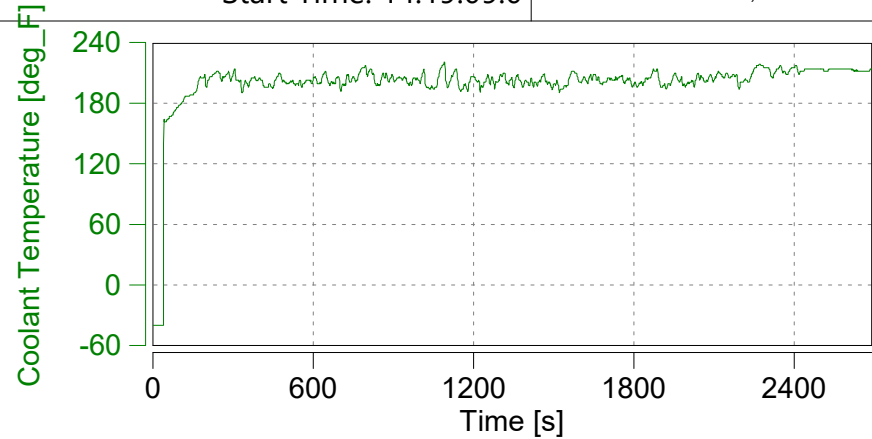
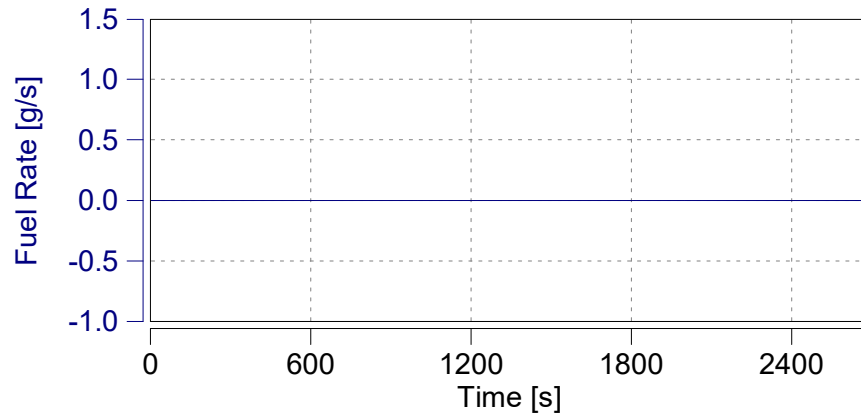
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

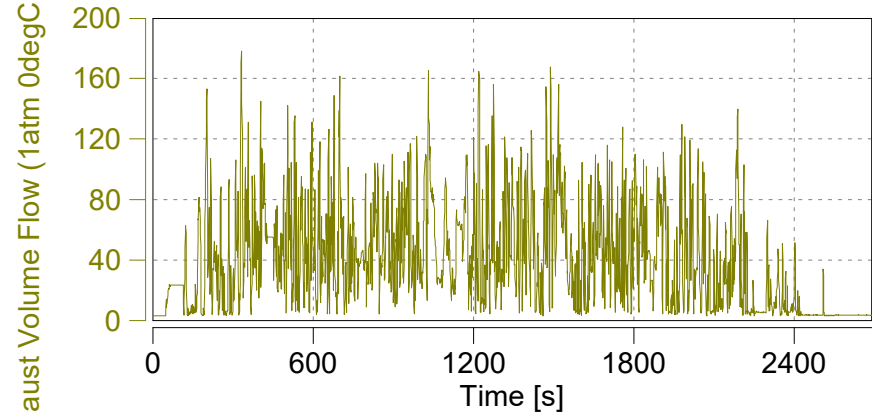
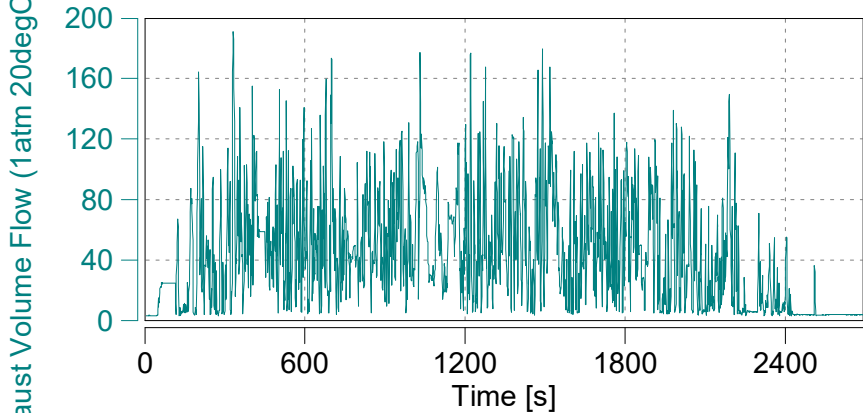
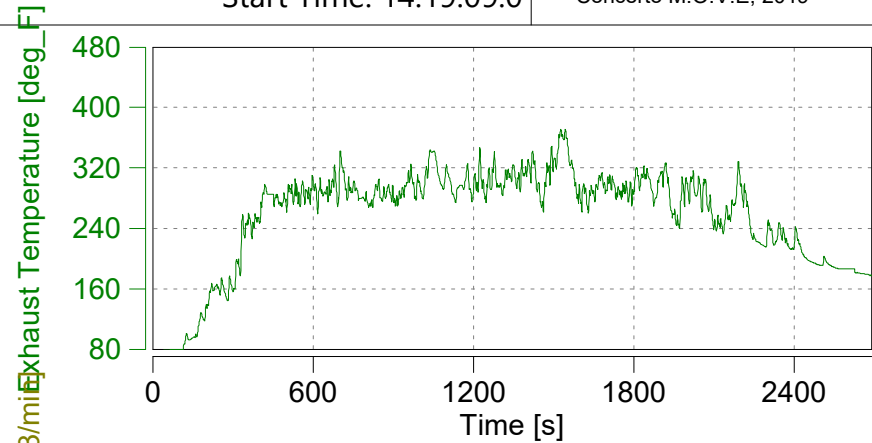
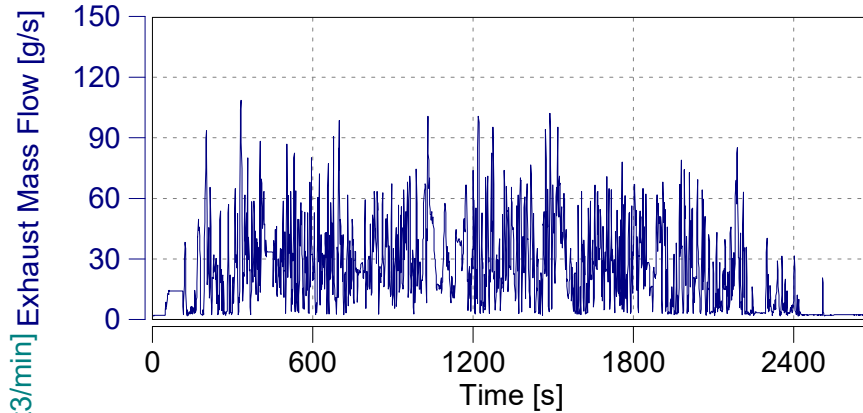
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0

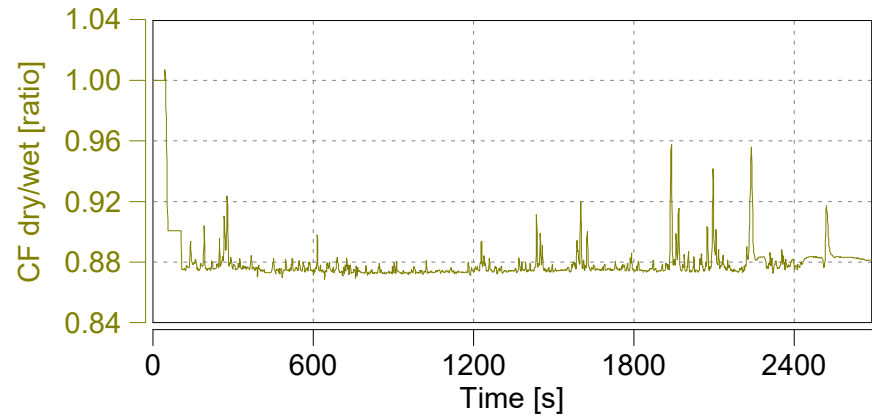
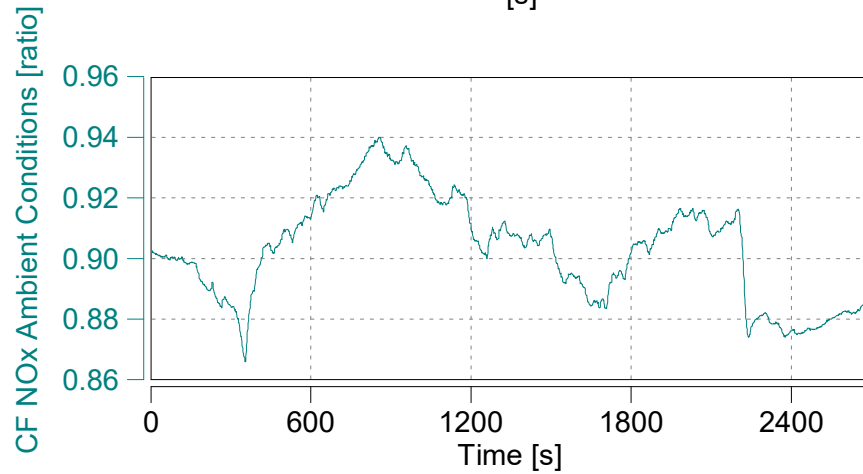
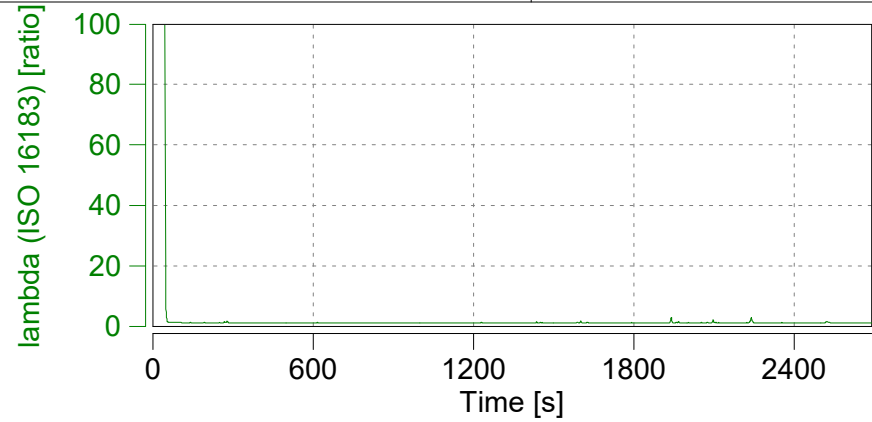
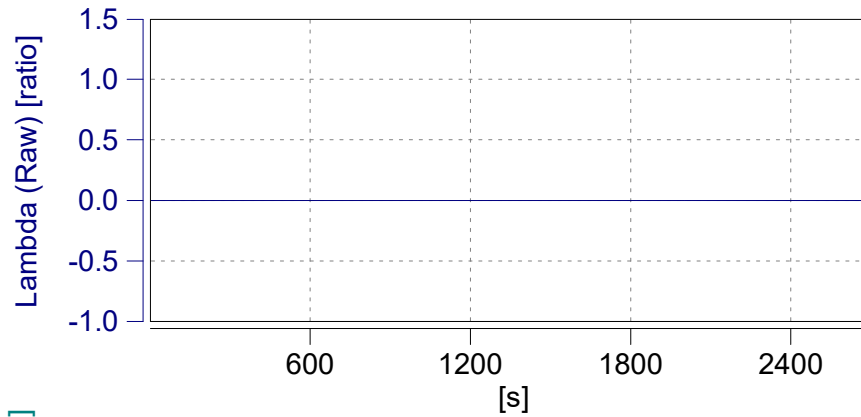


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

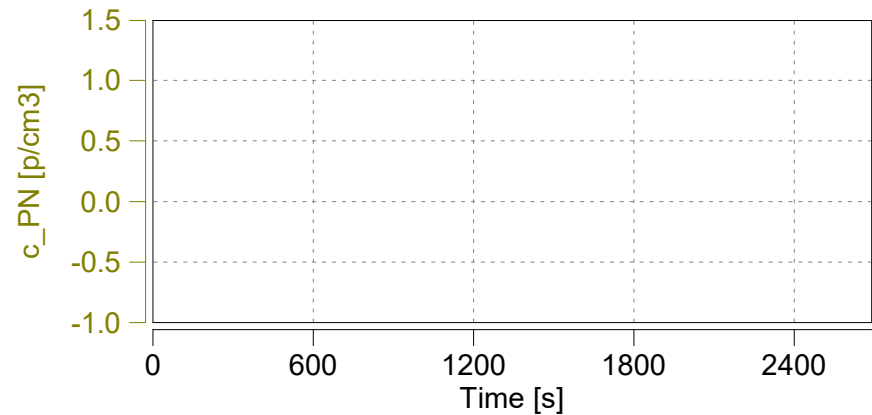
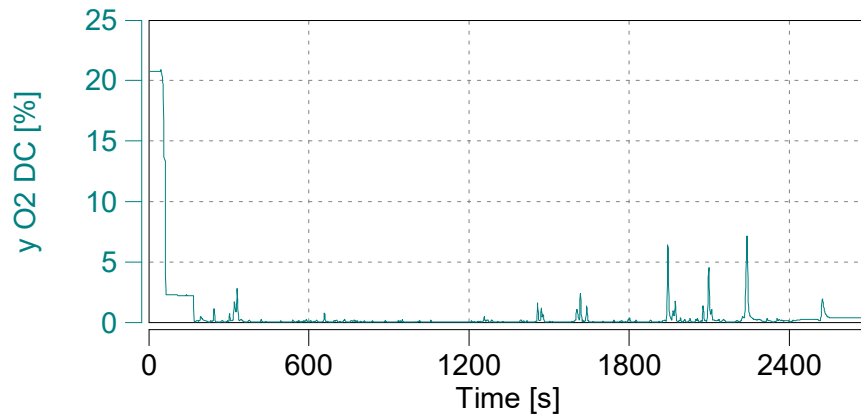
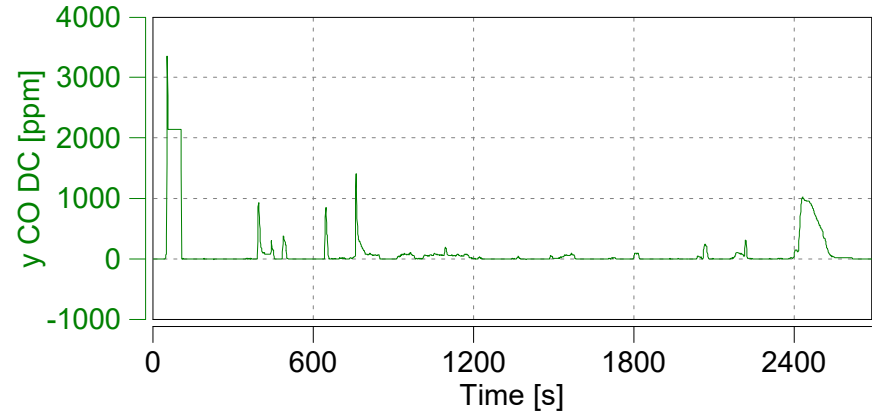
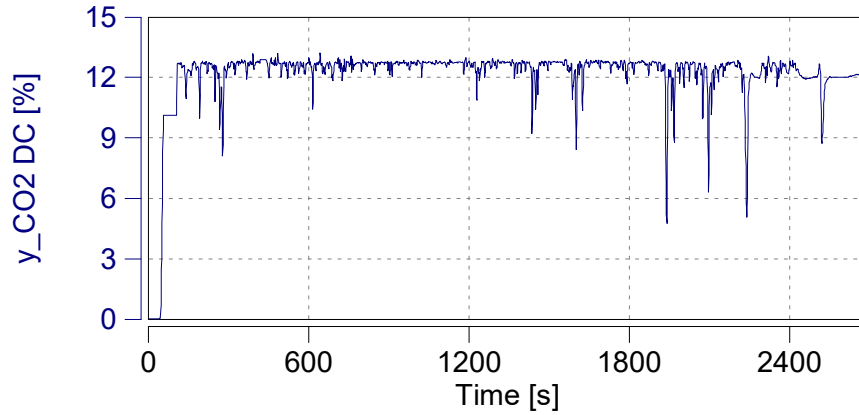
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1

Legislation:

Vehicle: A6 / 2.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (2)

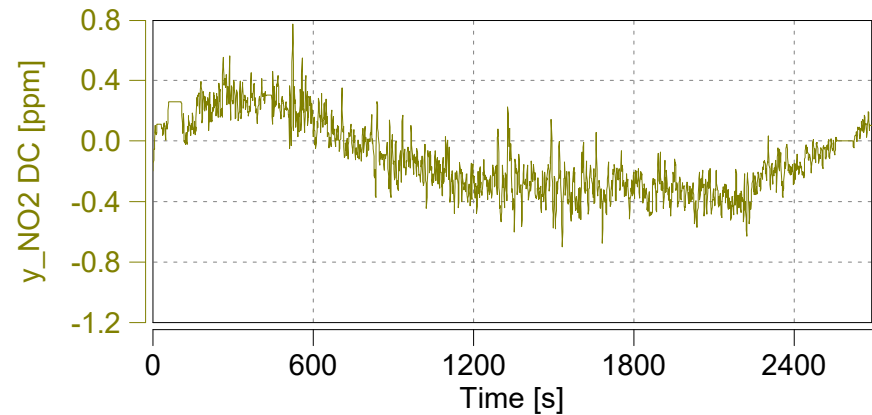
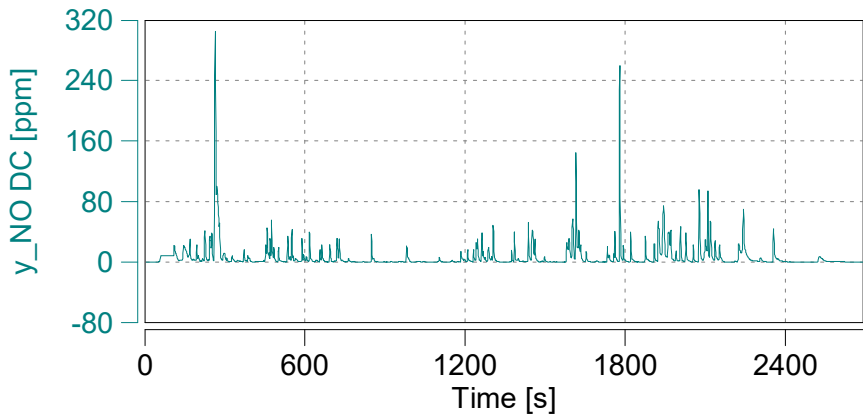
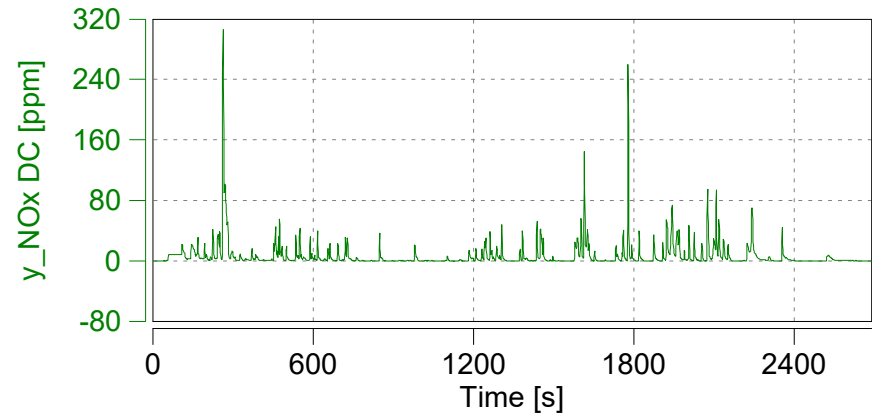
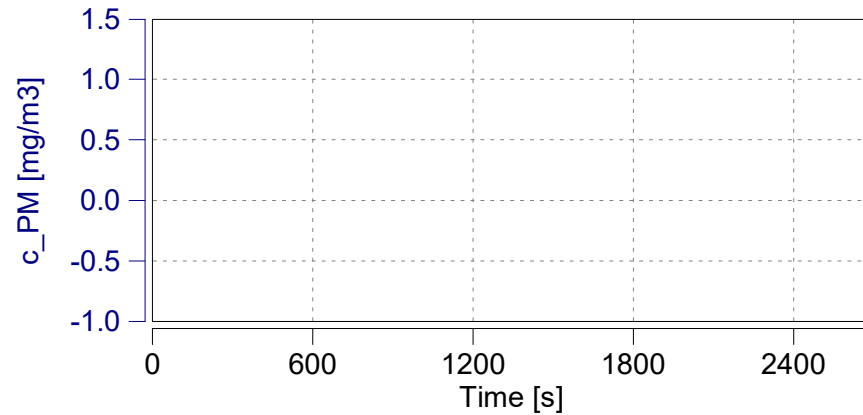
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0

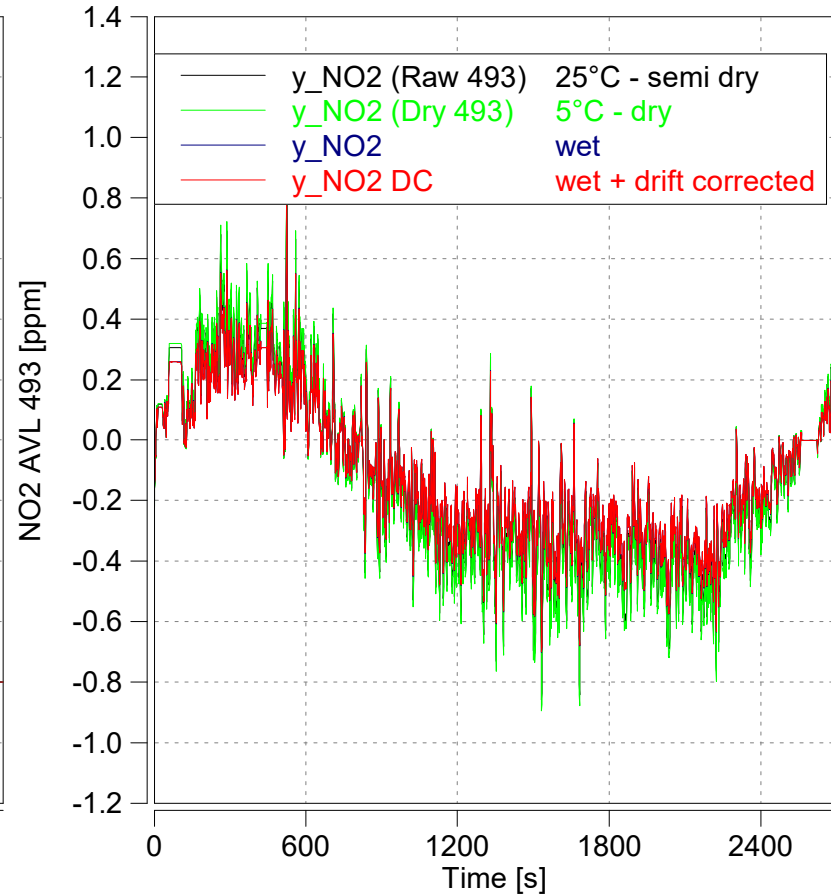
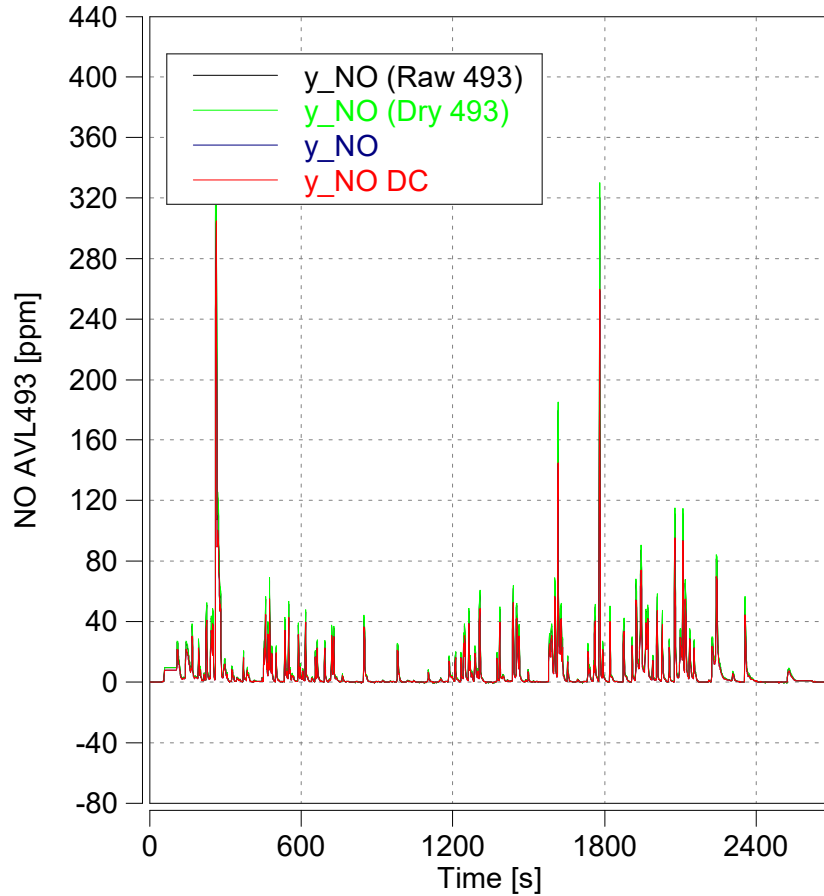


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

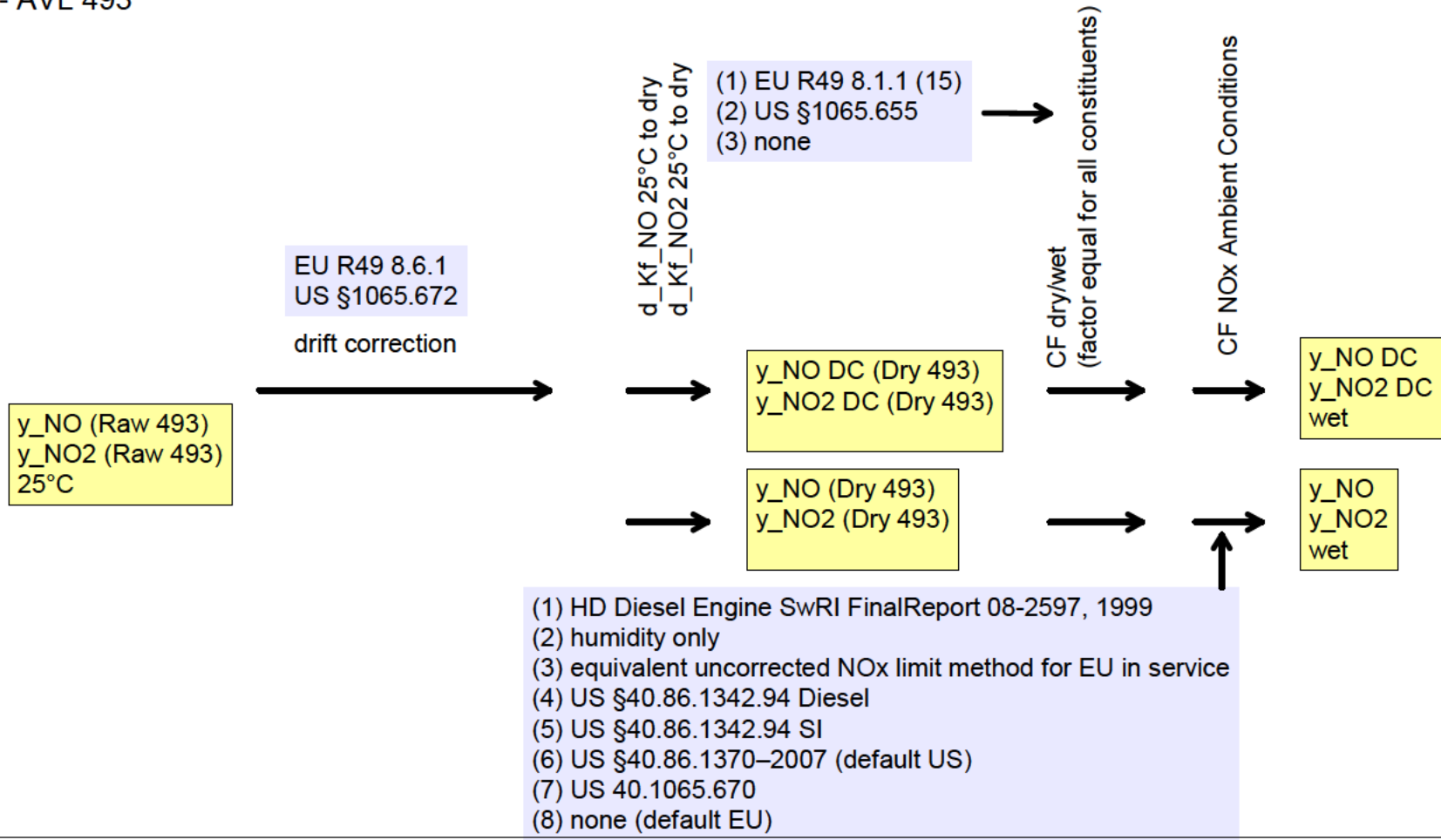


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

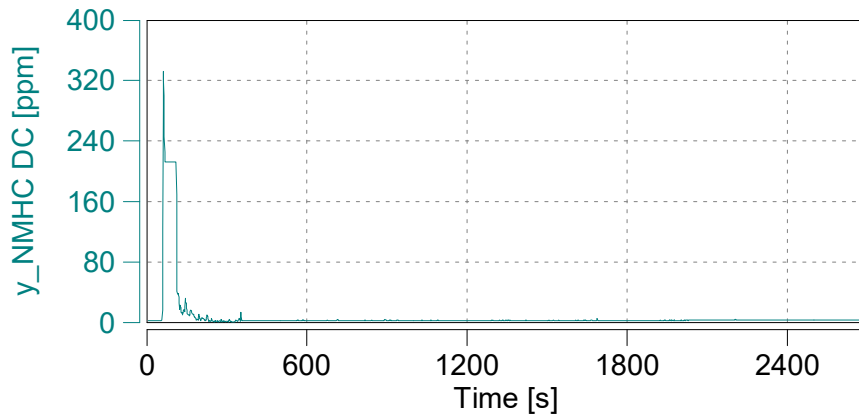
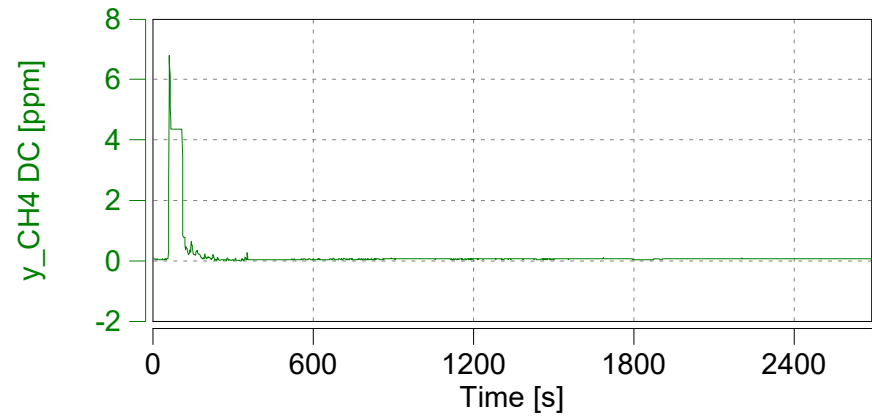
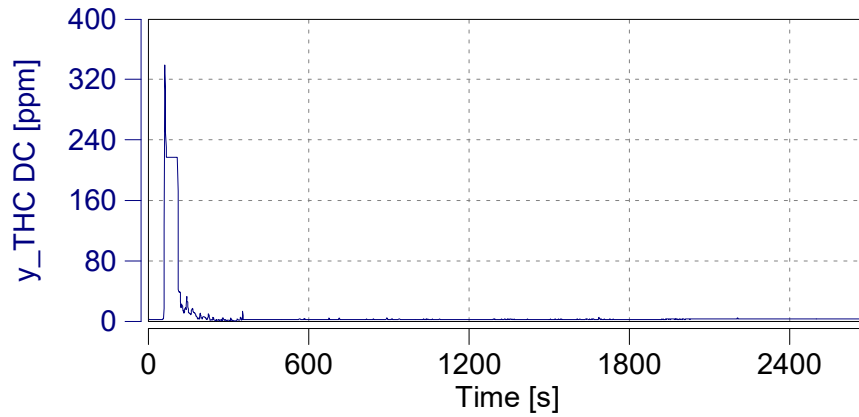
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0

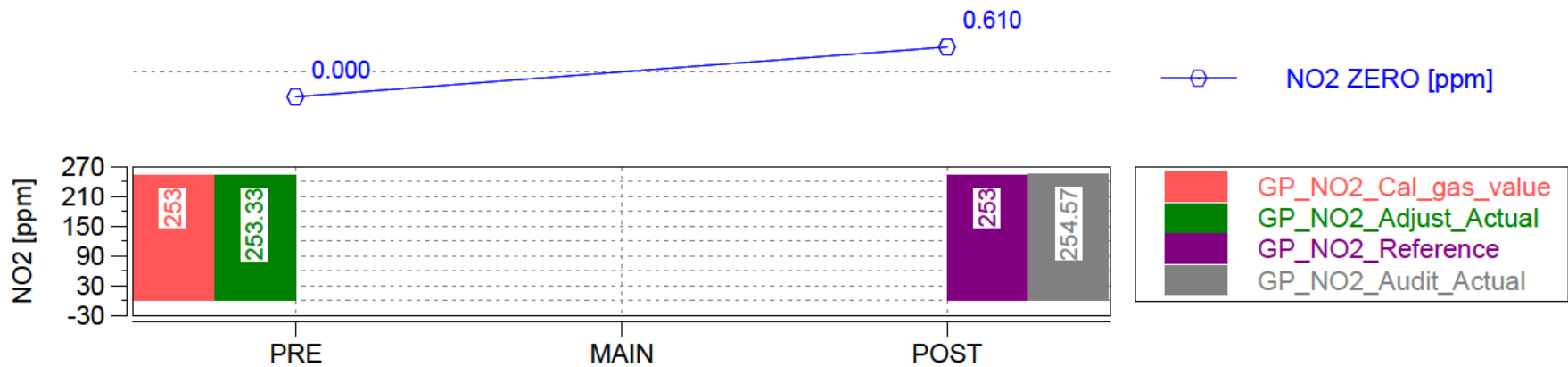
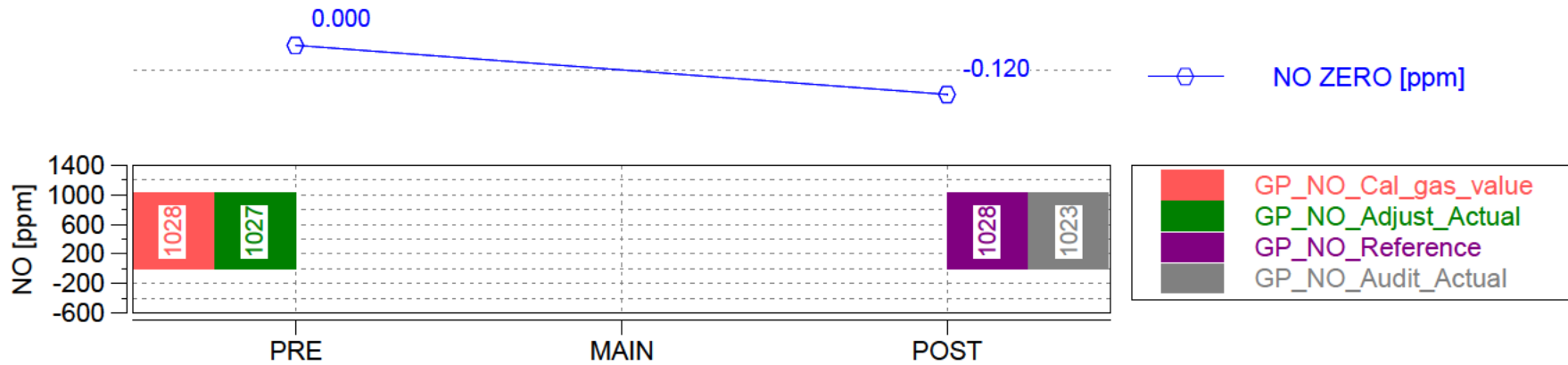


Concerto M.O.V.E., 2019



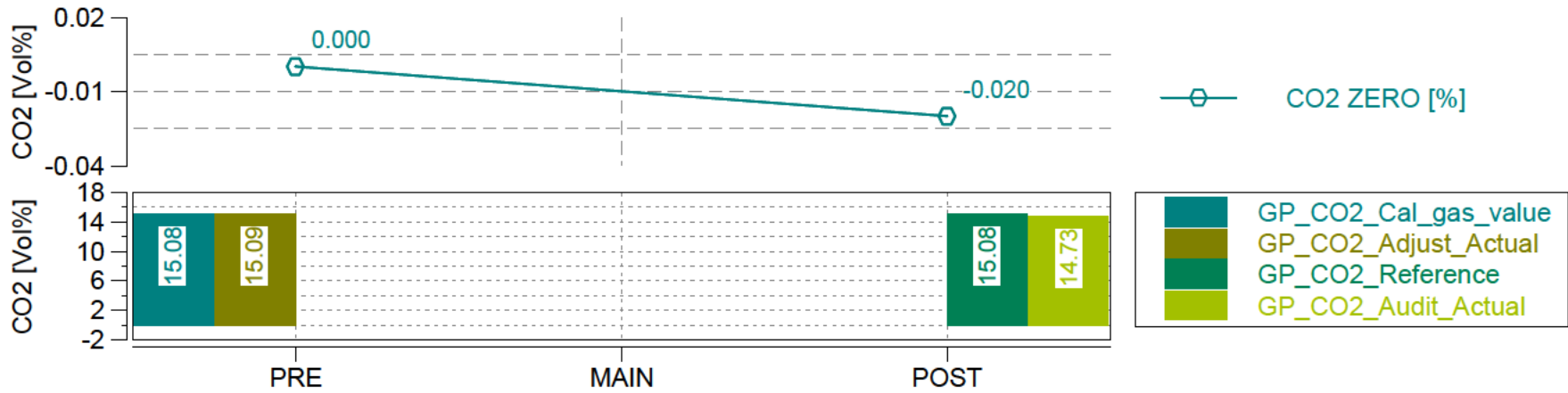
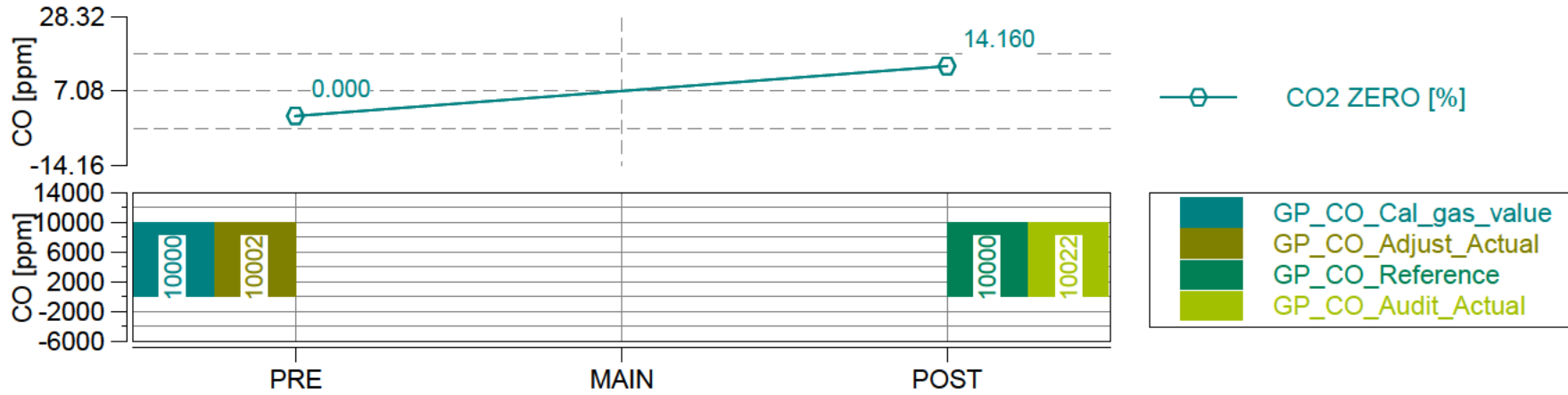
Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



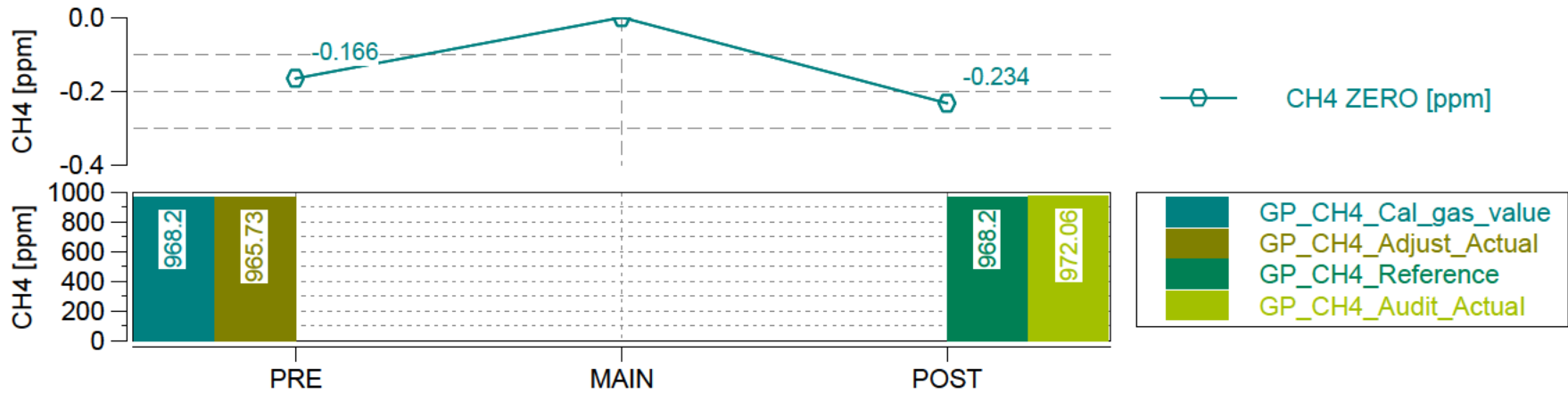
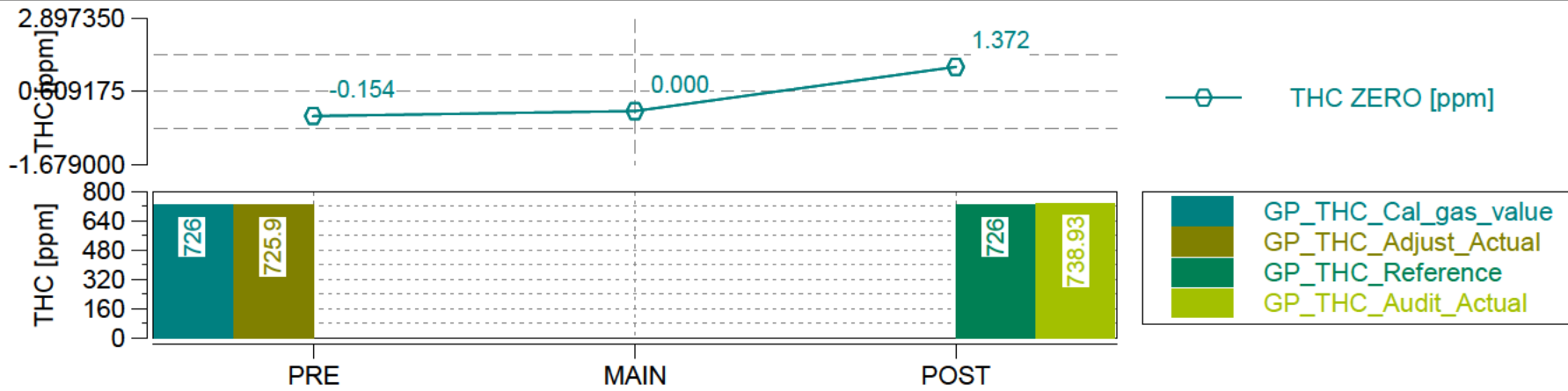
Concerto Version: 480 Build 316, Serial Number: 1120
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 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 09/30/2019
Start Time: 14:19:09.0



Trip Duration	2850.00	s	ave THC	4.48641	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2850.00	s	ave NMHC	4.39668	ppm	BS CO	n/a	g/hphr
Trip Distance	28.16	mi	ave CH4	0.08973	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	28.16	mi	ave CO	36.20179	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	11.12751	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	11.13192	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.56	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.55	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	22.41	mpg_US	tot THC	0.17976	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	22.42	mpg_US	tot NMHC	0.16628	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	0.00398	g	DS CO2	379.58282	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	2.40526	g	DS CO	0.08541	g/mi
Trip Fuel Economy EU GGE (ac)	22.41	mpg_US	tot CO2	10689.45147	g	DS THC	0.00638	g/mi
Trip Fuel Economy US GGE (ac)	22.42	mpg_US	tot NO (d)	0.59527	g	DS NMHC	0.00590	g/mi
Trip Av. Eng. Speed	1774.73	rpm	tot NO2	0.08855	g	DS CH4	0.00014	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.68382	g	DS NO (d)	0.02114	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00314	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.02428	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	58.33	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	79.08	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	24.50	%	Trip Av. Veh. Speed	35.57185	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	209.72	m	Trip Velocity Zero	10.28070	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	2.19007	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	28.19711	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	69.61283	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain

Page: Trip Summary Drift Corrected

'Mountain'

Start Date: 09/30/2019

Start Time: 14:19:09.0



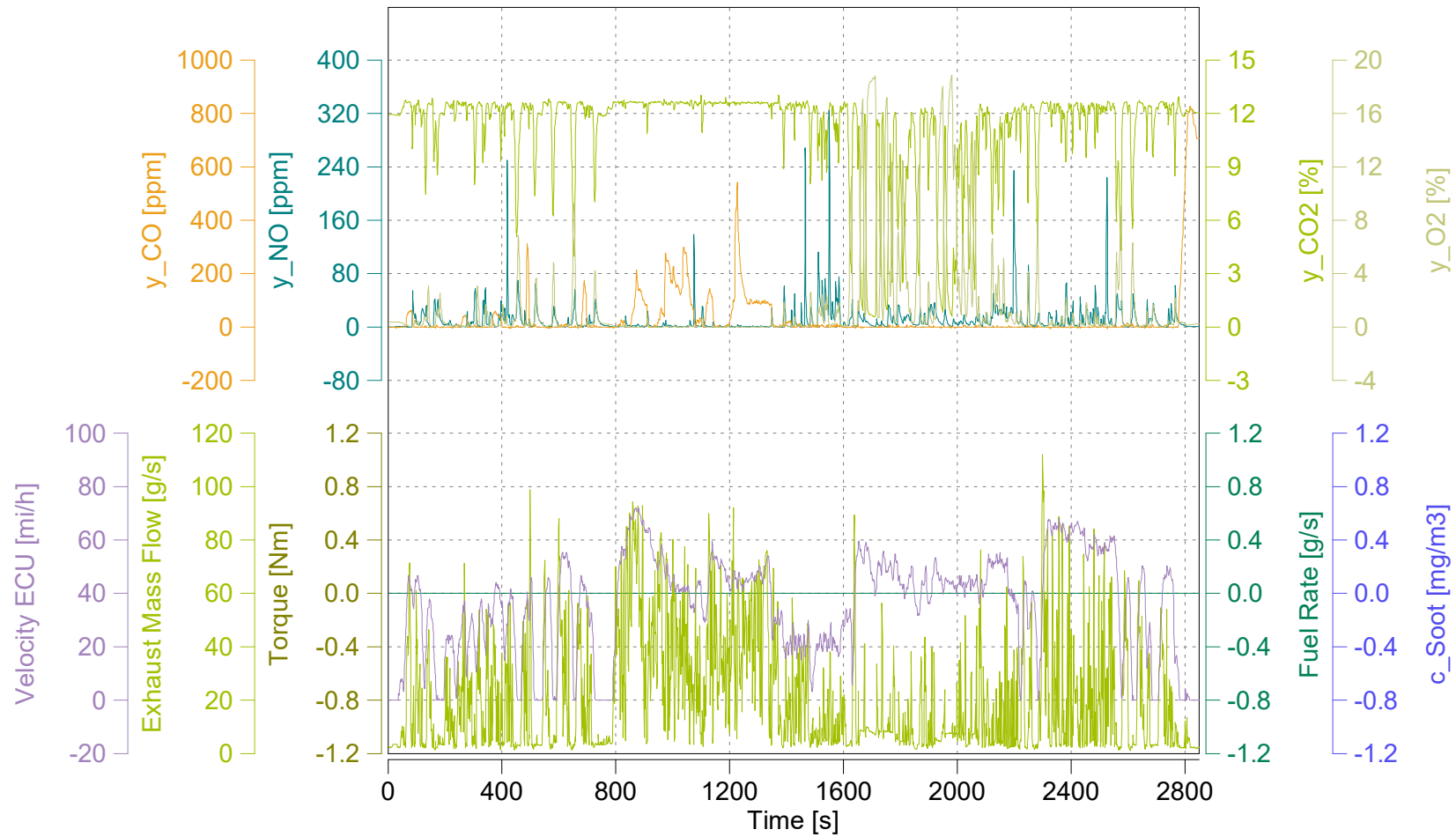
Concerto M.O.V.E., 2019

Trip Duration	2850.00	s	ave THC DC	4.52275	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2850.00	s	ave NMHC DC	4.43229	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.16	mi	ave CH4 DC	0.09045	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.16	mi	ave CO DC	36.15948	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	11.25439	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	11.15487	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.56	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.55	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.18038	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	22.41	mpg_US	tot NMHC DC	0.16686	g			
Trip Fuel Economy US (ac)	22.42	mpg_US	tot CH4 DC	0.00400	g	DS CO2 DC	383.91073	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	2.40245	g	DS CO DC	0.08531	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	10811.32985	g	DS THC DC	0.00641	g/mi
Trip Fuel Economy EU GGE (ac)	22.41	mpg_US	tot NO DC (d)	0.59680	g	DS NMHC DC	0.00593	g/mi
Trip Fuel Economy US GGE (ac)	22.42	mpg_US	tot NO2 DC	0.08822	g	DS CH4 DC	0.00014	g/mi
			tot NOx DC	0.68502	g	DS NO DC (d)	0.02119	g/mi
Trip Av. Eng. Speed	1774.73	rpm	tot Soot	n/a	g	DS NO2 DC	0.00313	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.02432	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	58.33	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	35.57185	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	79.08	deg_F	Trip Velocity Zero	10.28070	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	24.50	%	Trip Velocity Urban	2.19007	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	209.72	m	Trip Velocity Rural	28.19711	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	69.61283	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

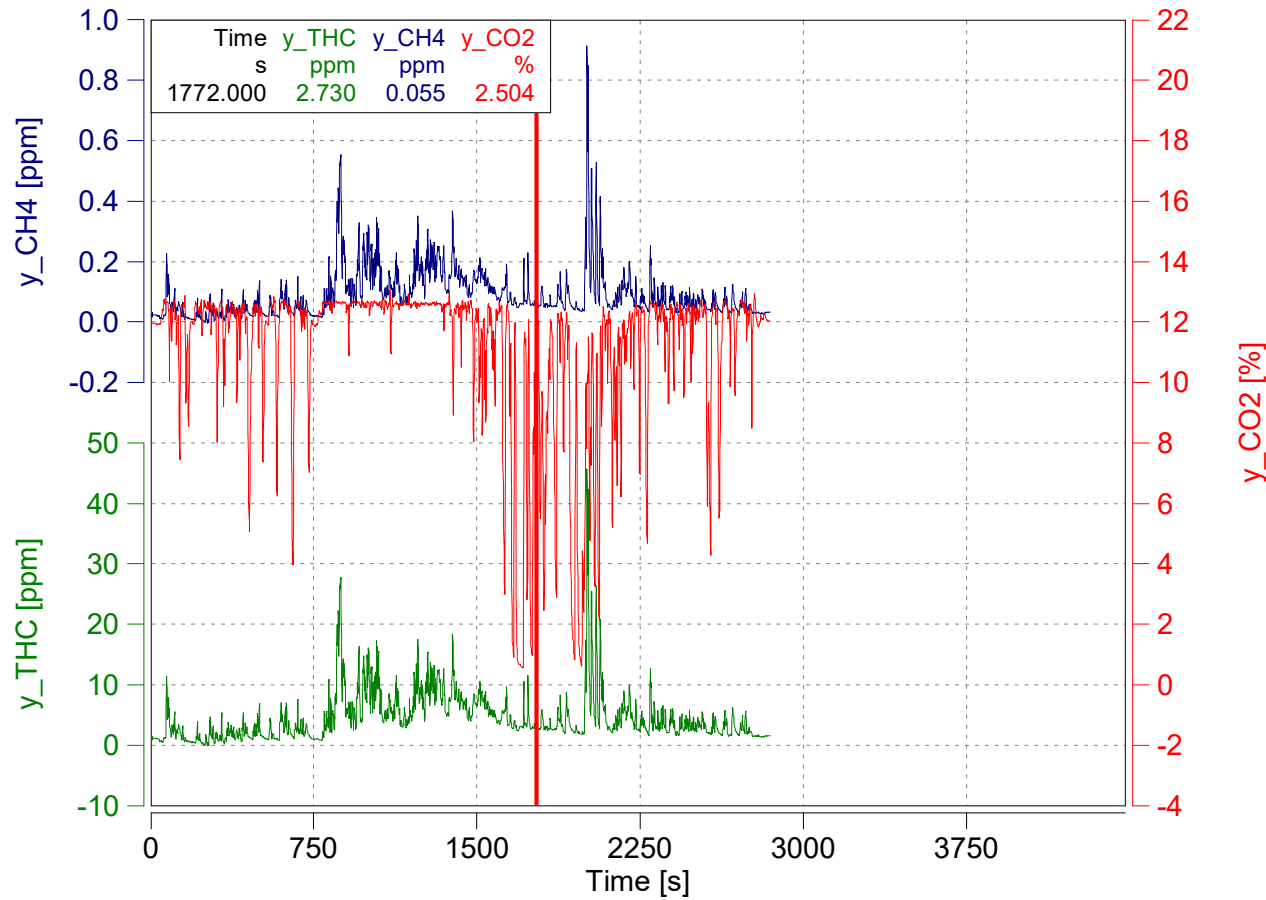
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 Legislation:

Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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Absolute Time Shifts

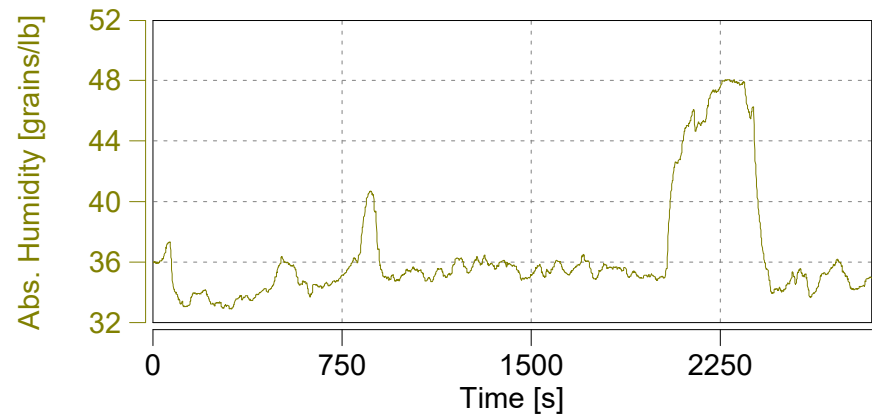
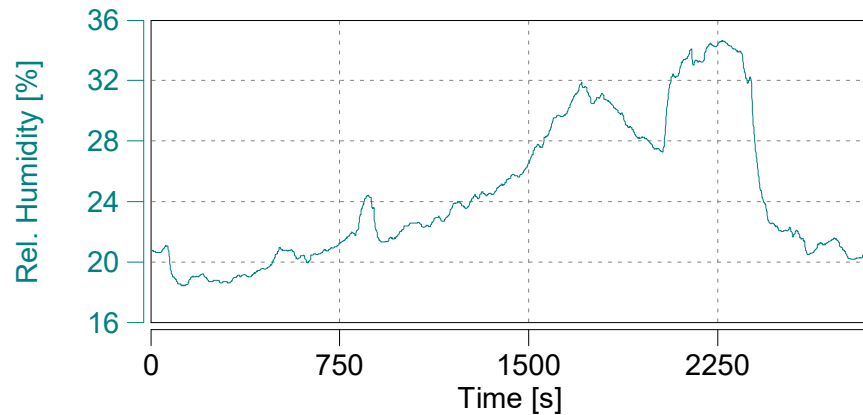
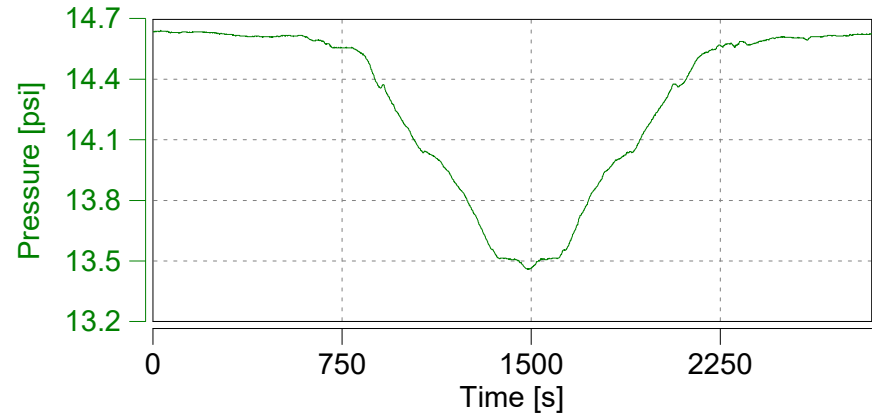
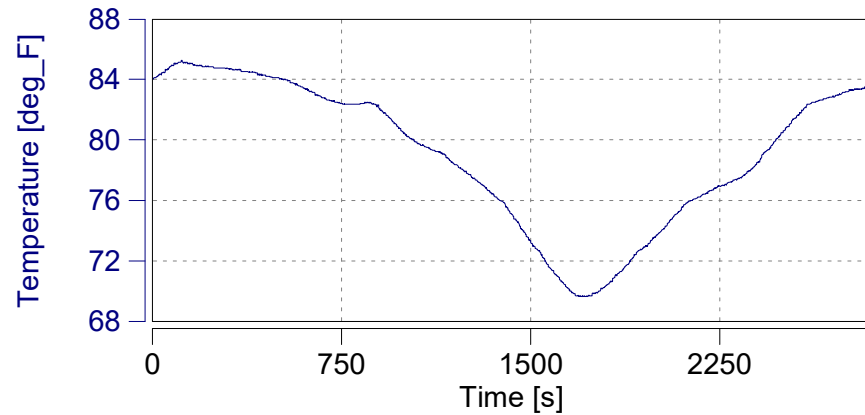
y_THC	s	-4.3
y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

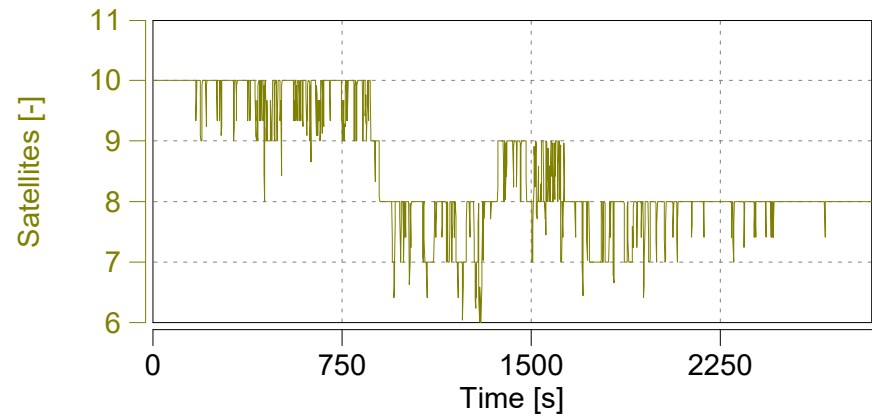
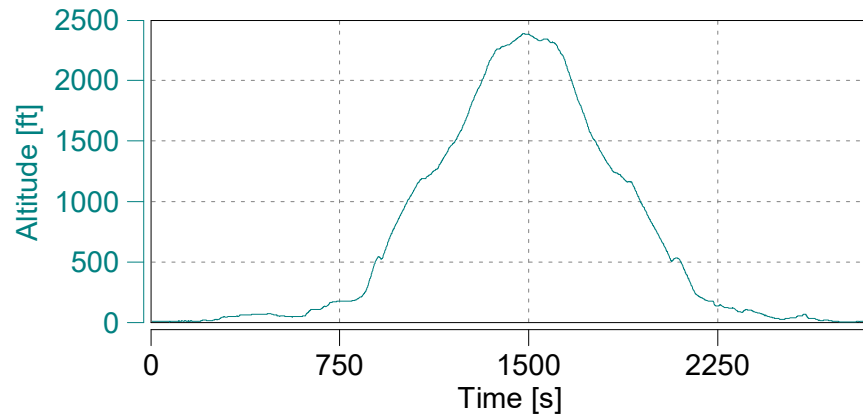
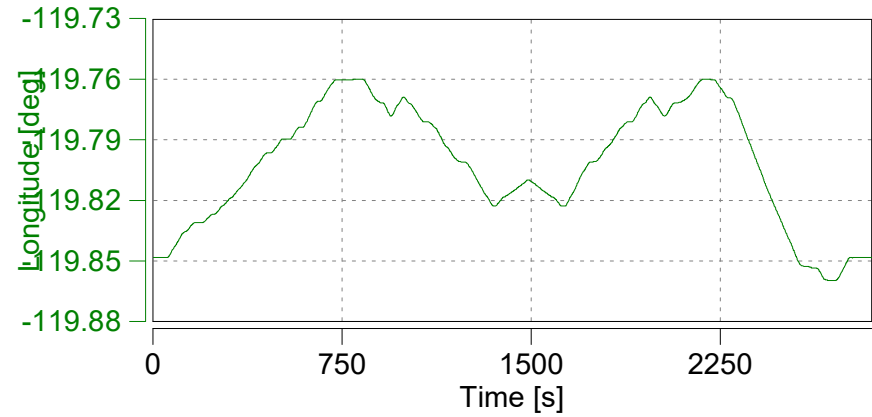
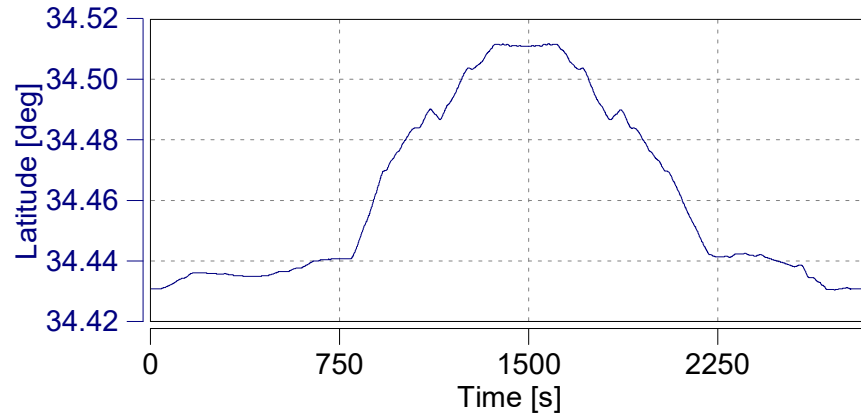
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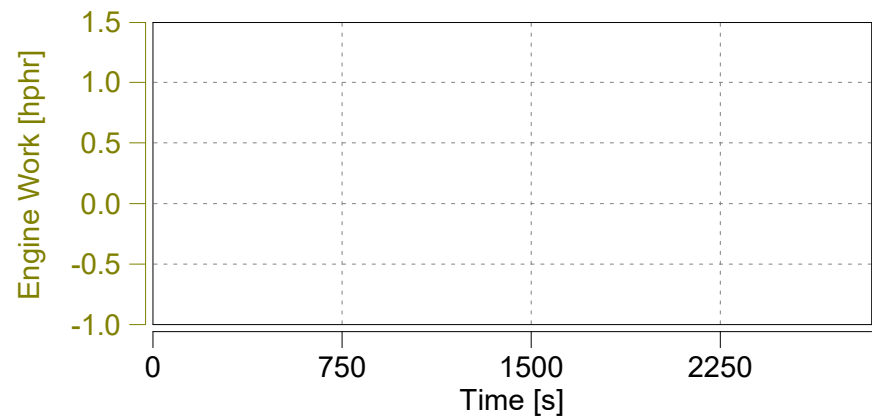
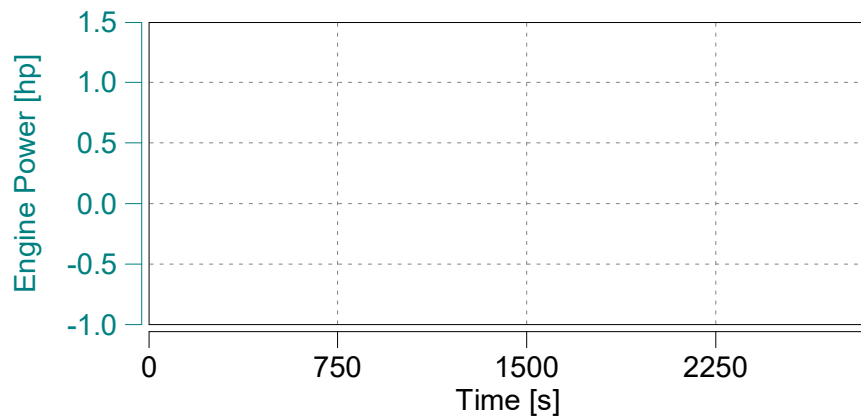
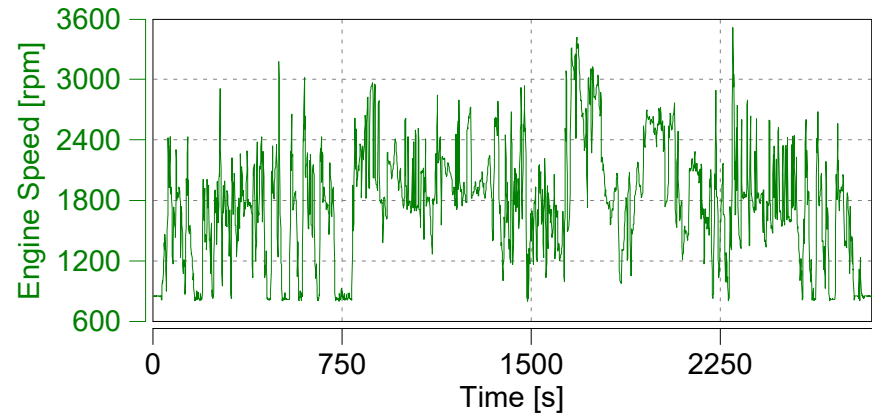
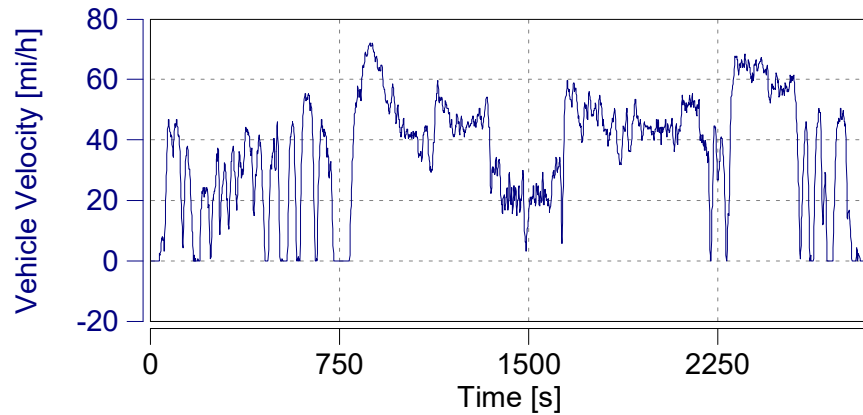
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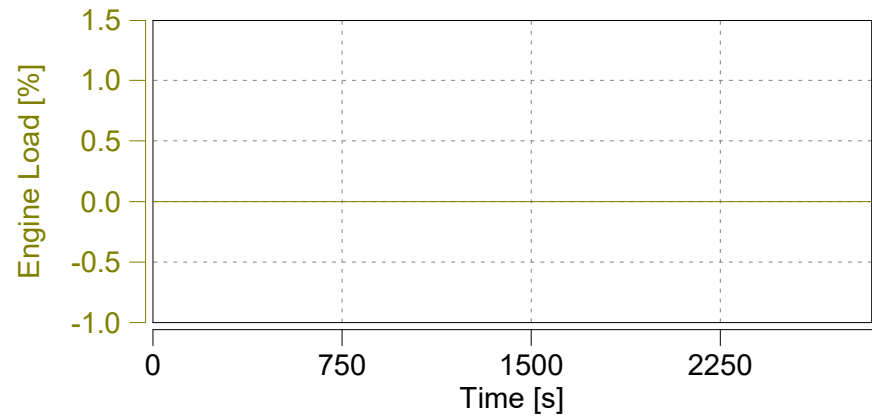
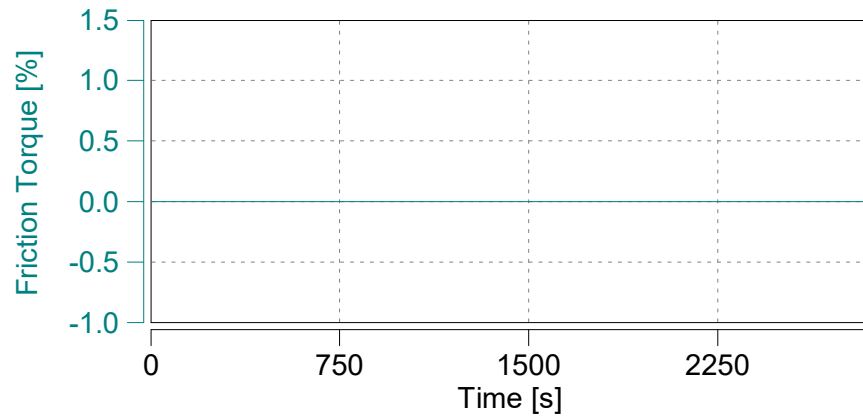
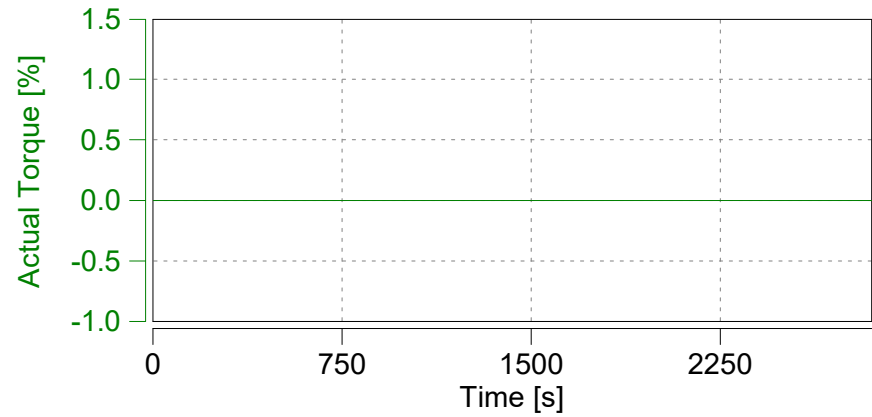
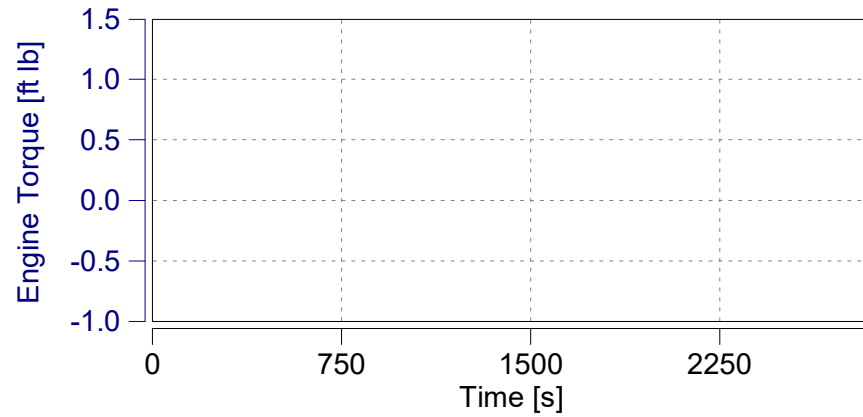
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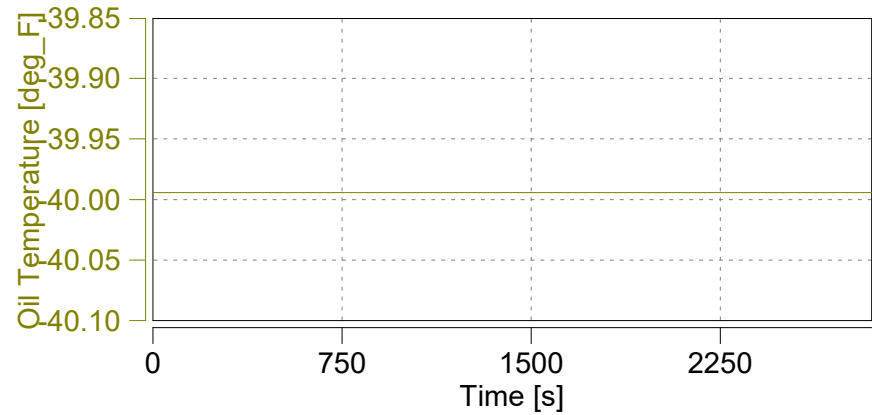
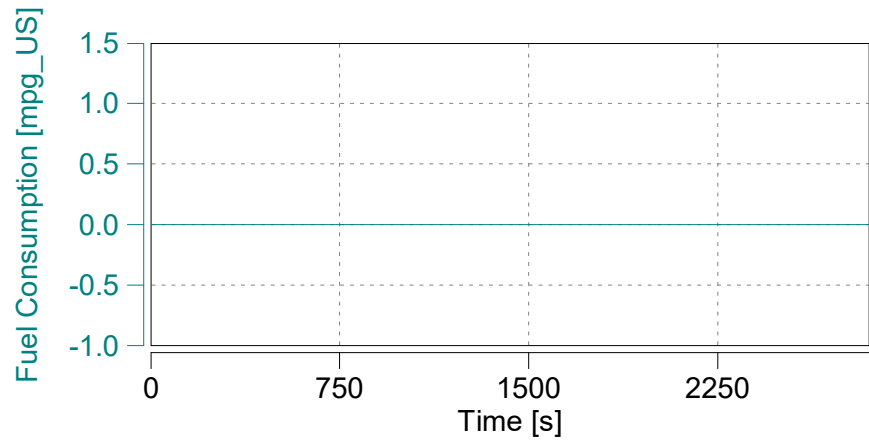
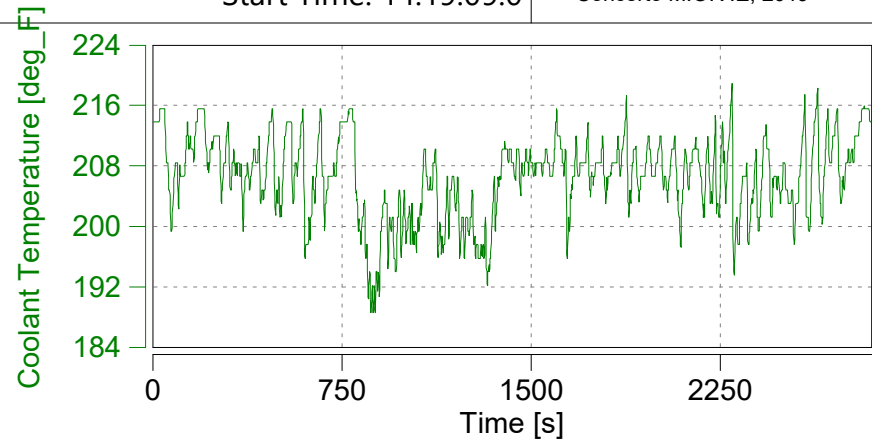
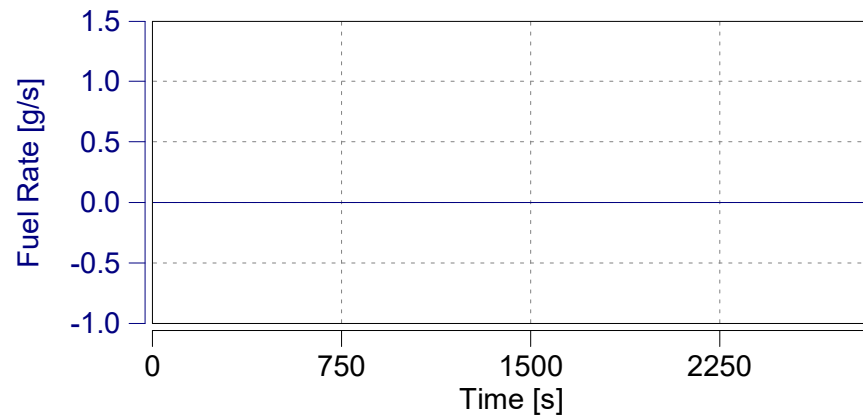
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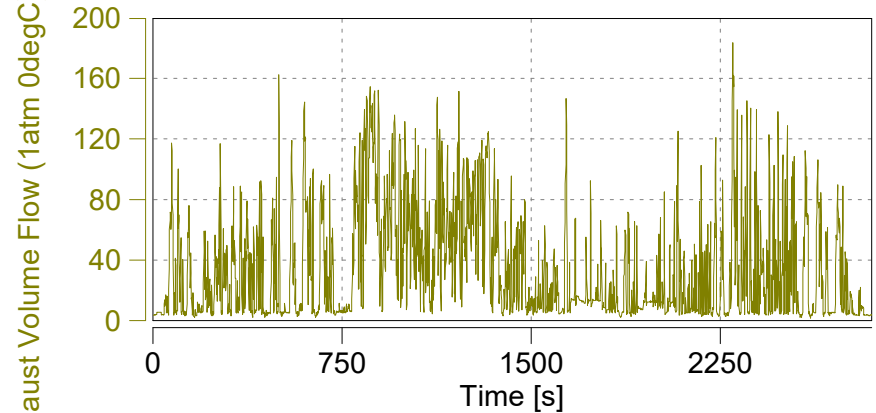
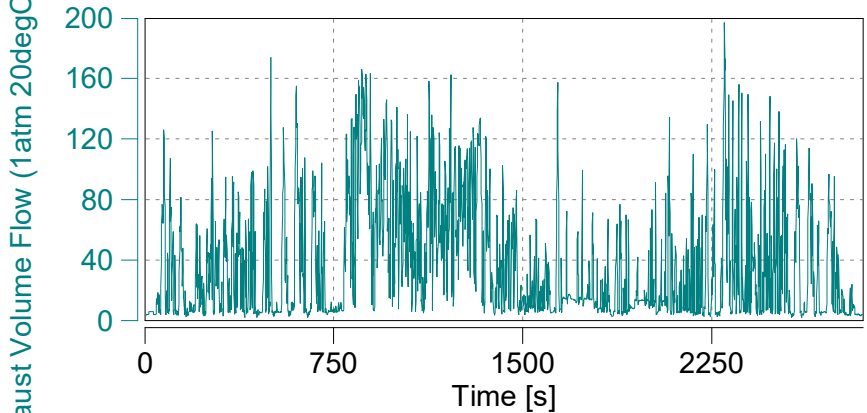
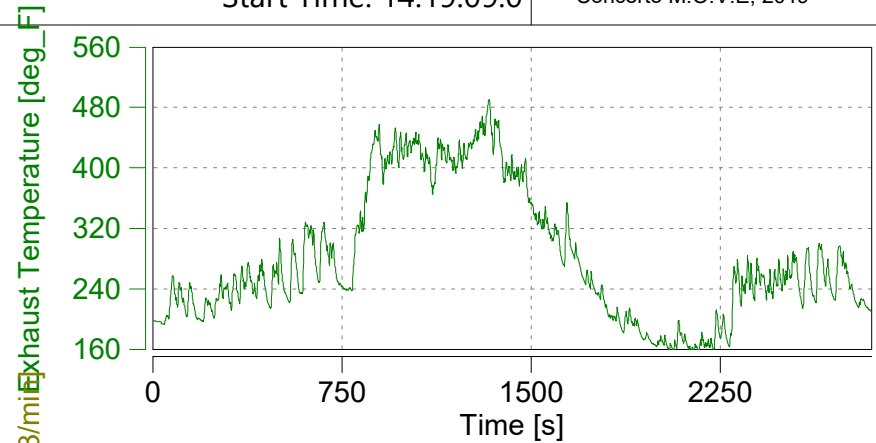
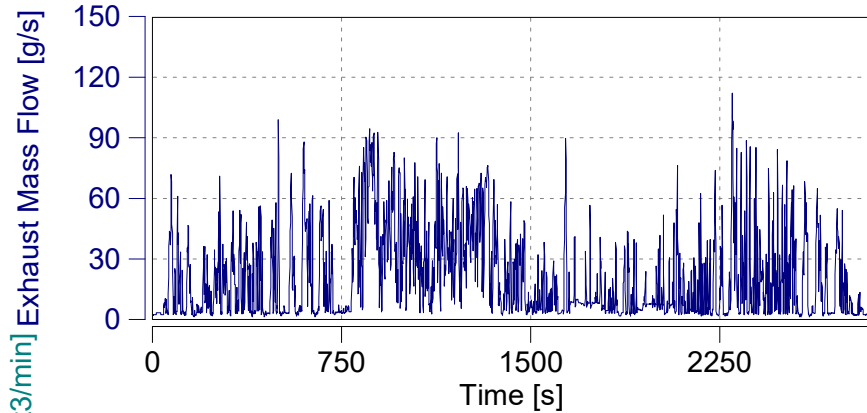
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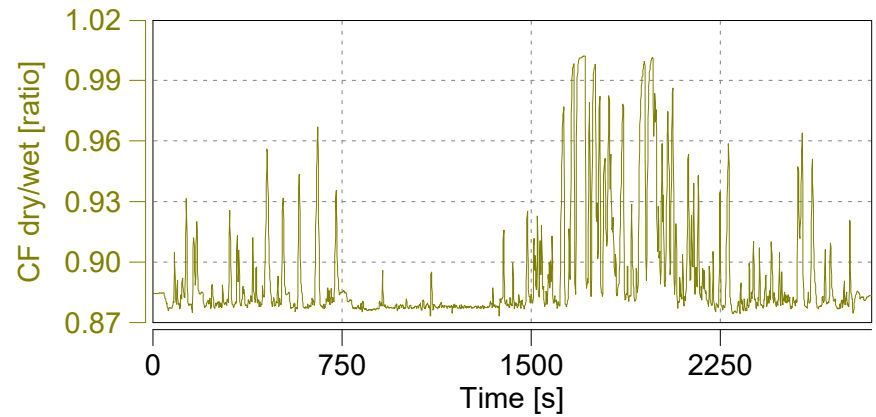
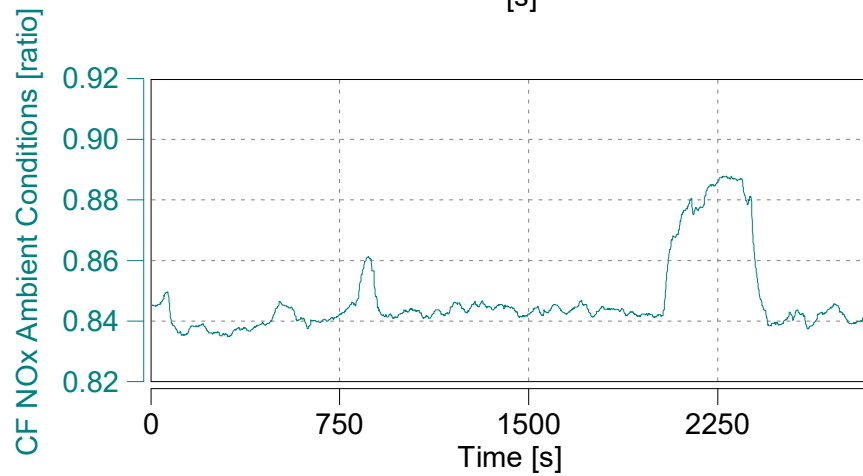
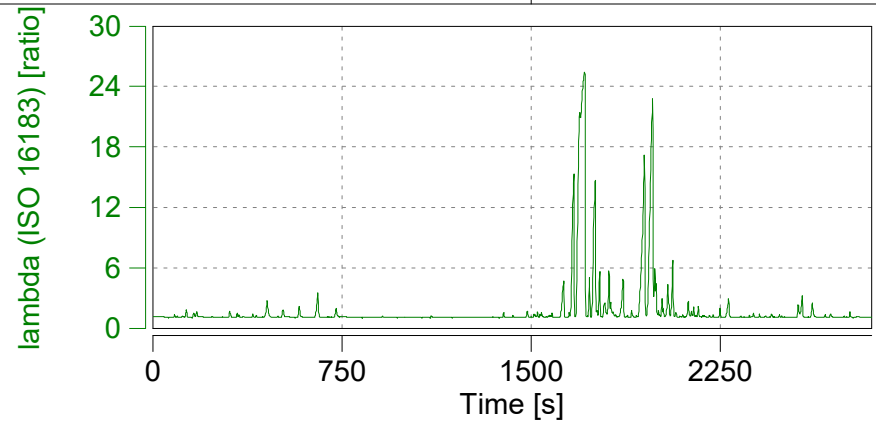
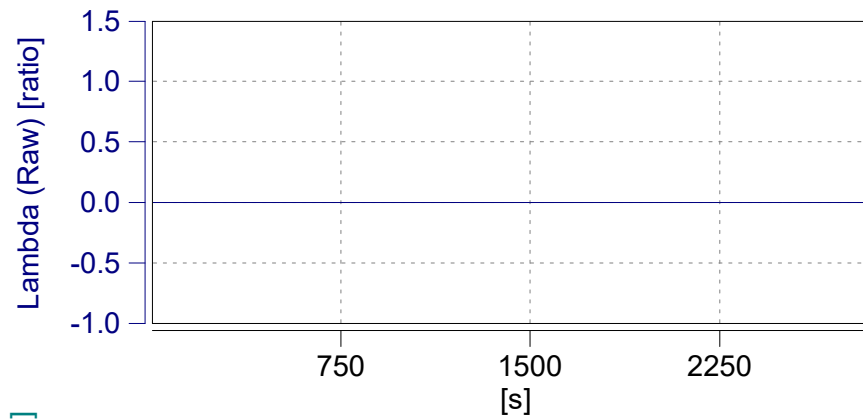
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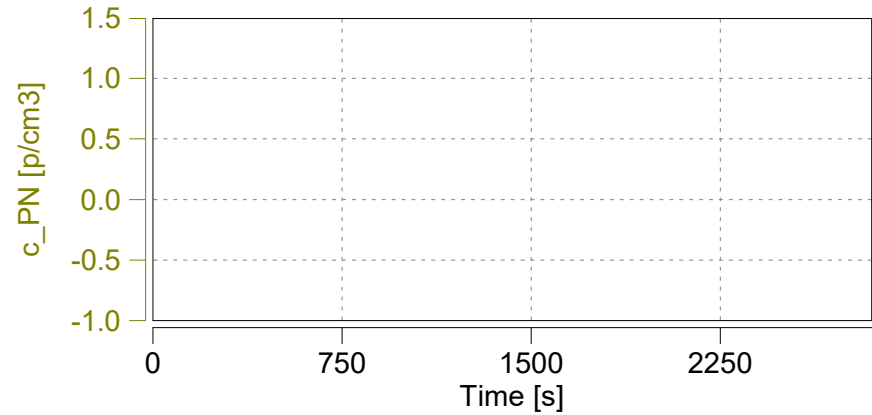
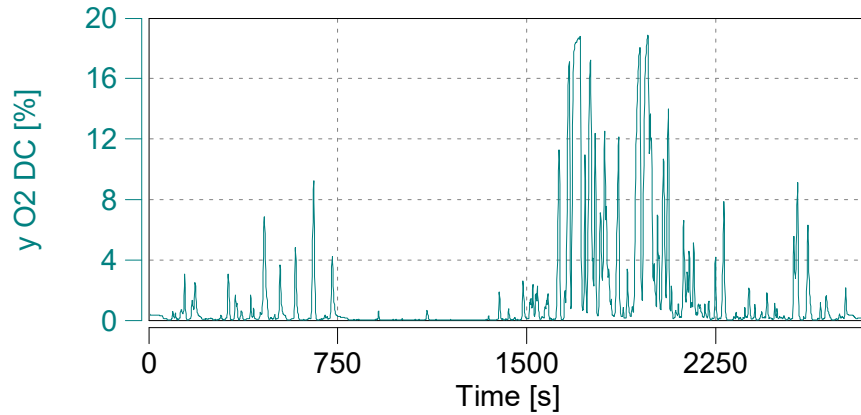
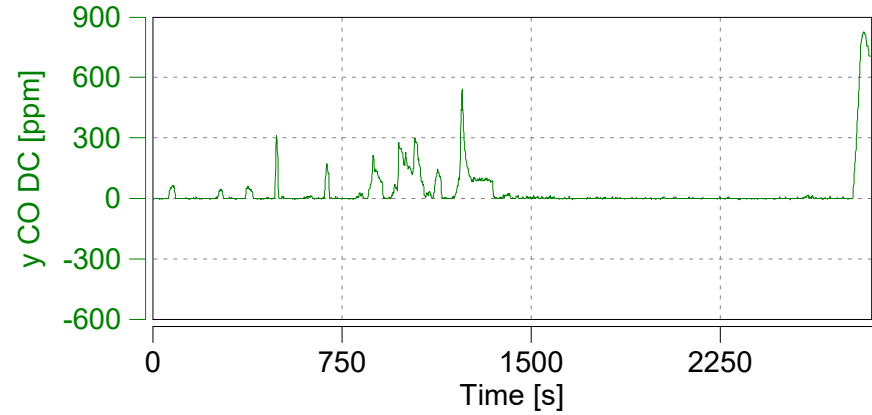
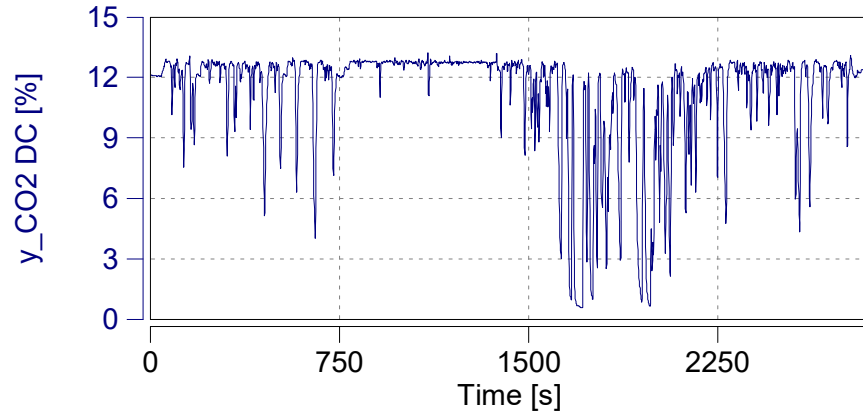
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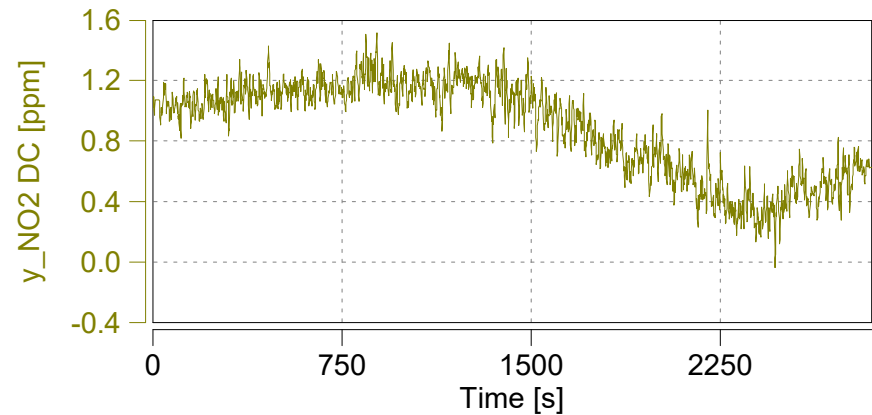
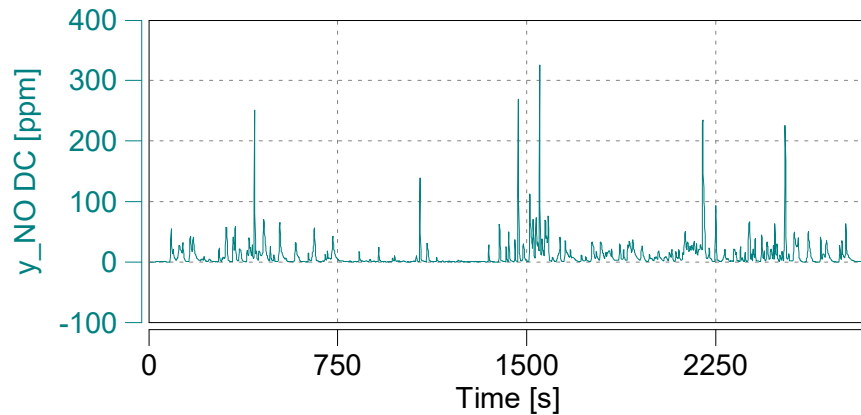
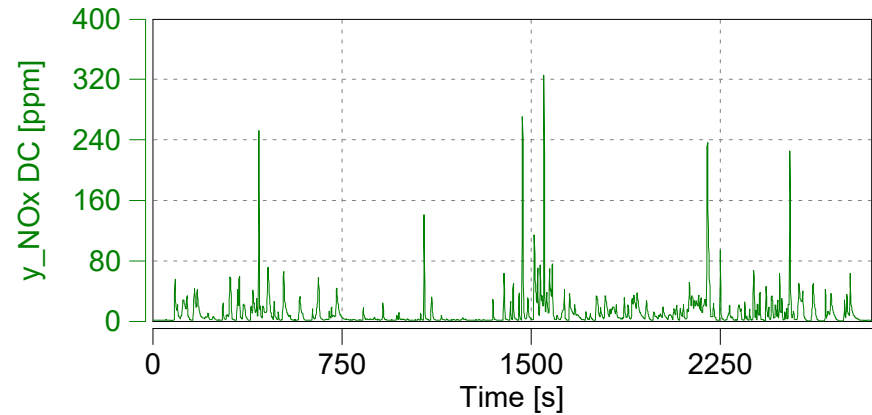
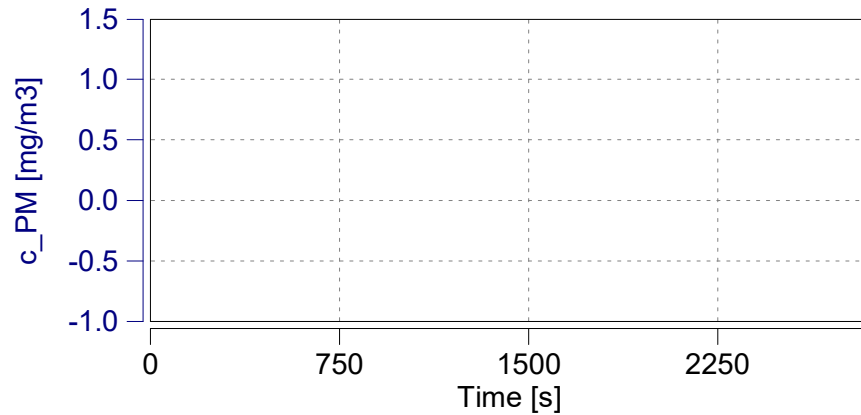
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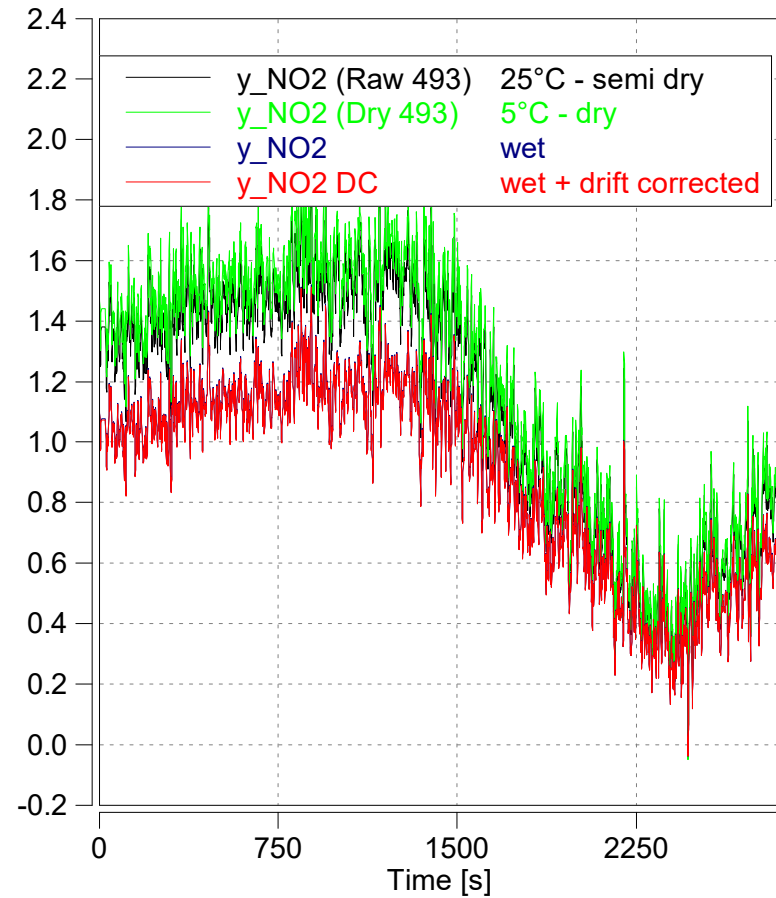
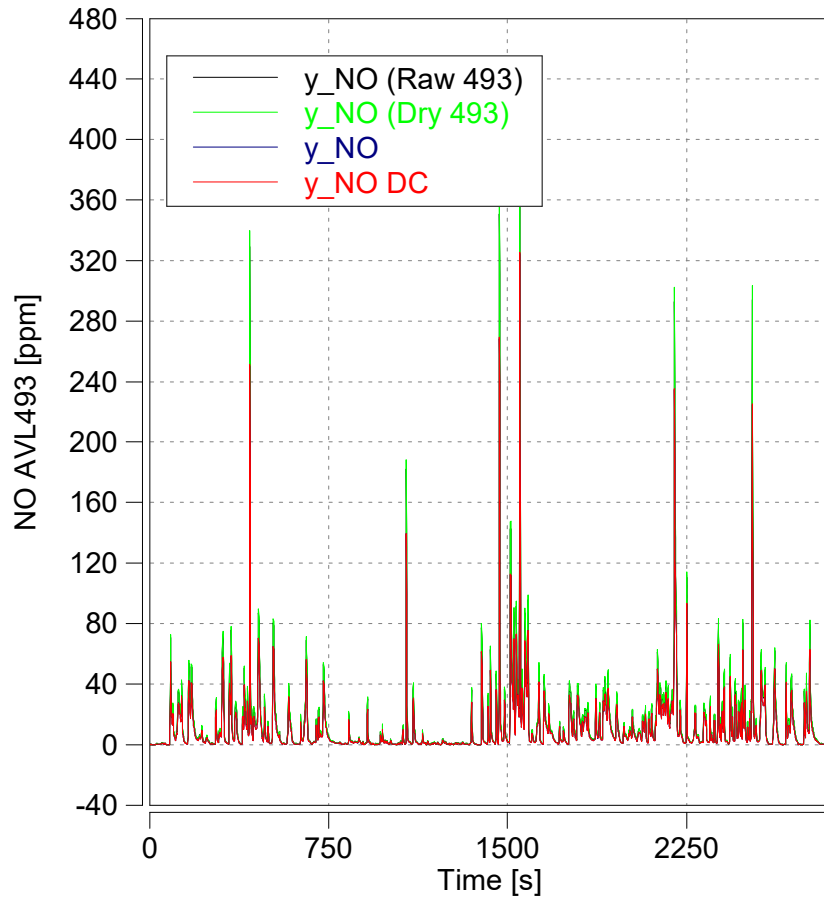
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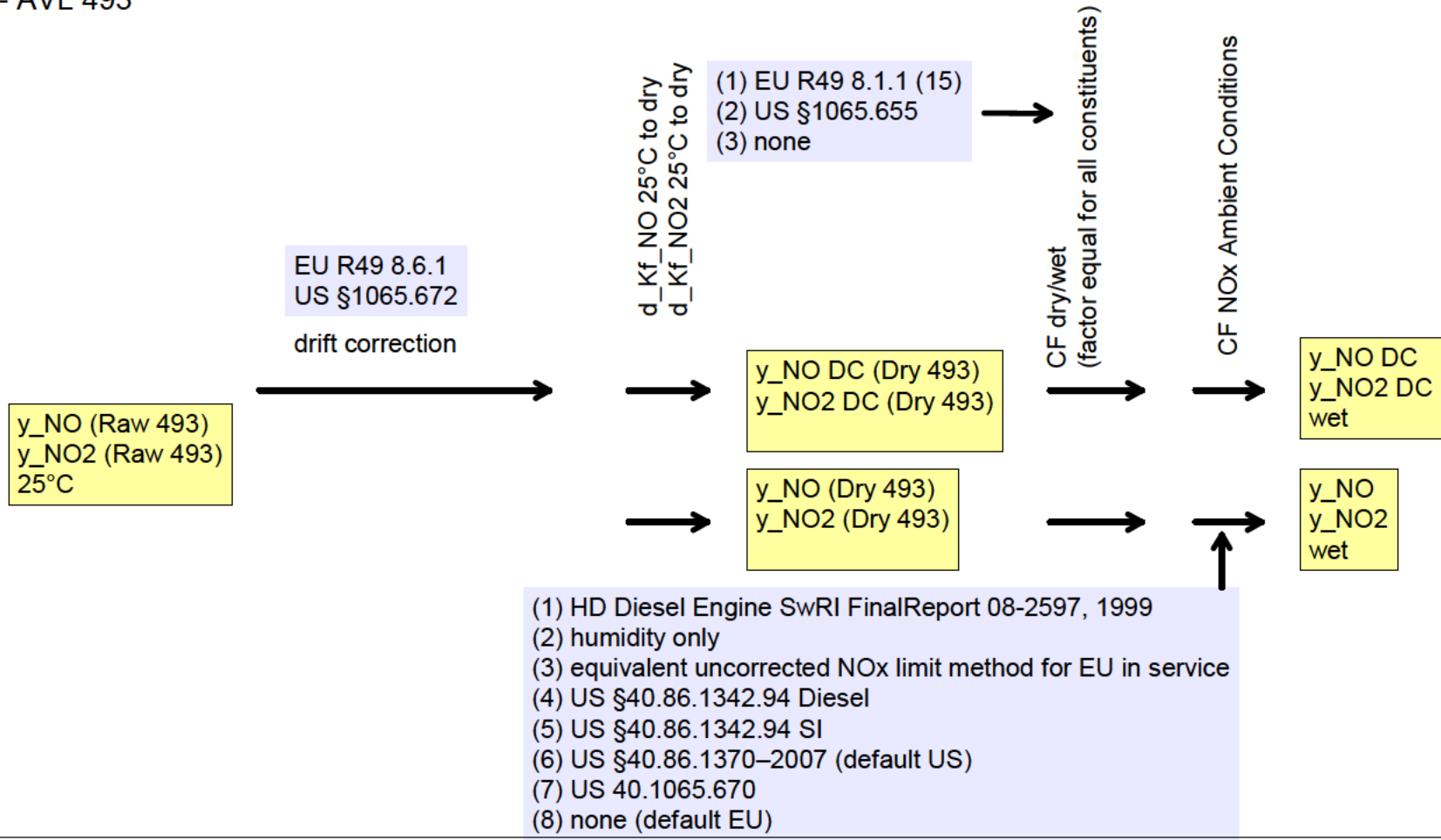


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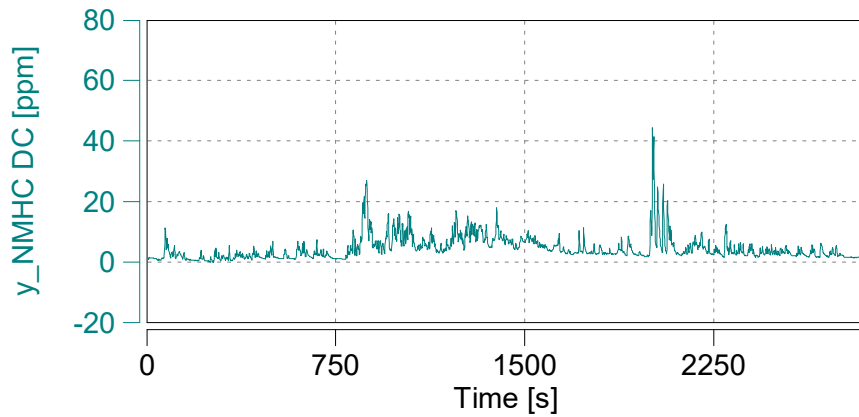
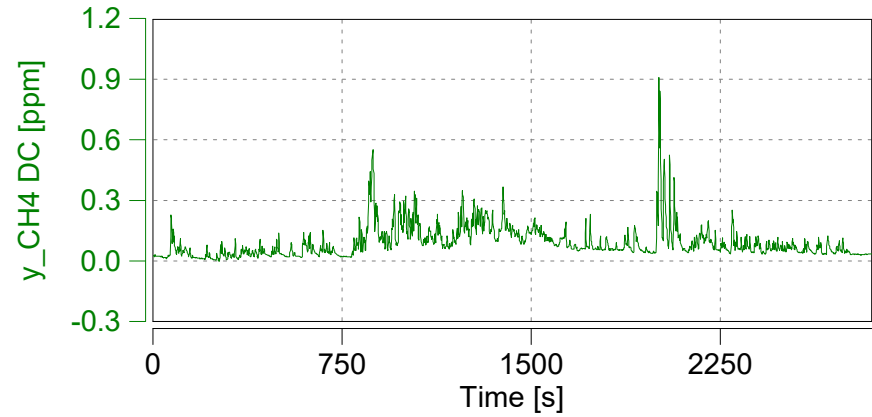
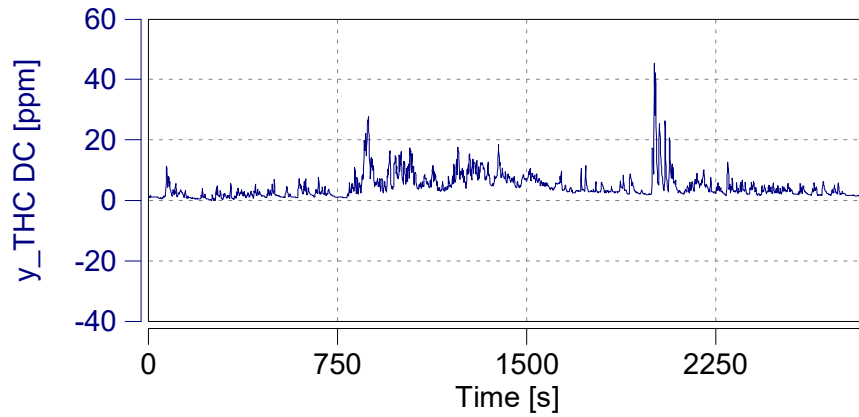


NOx - AVL 493



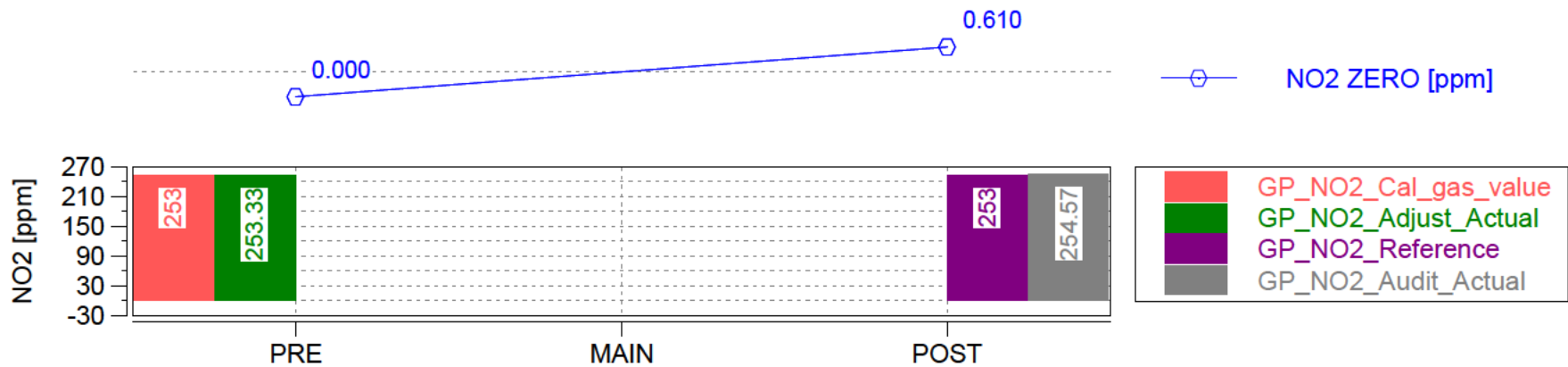
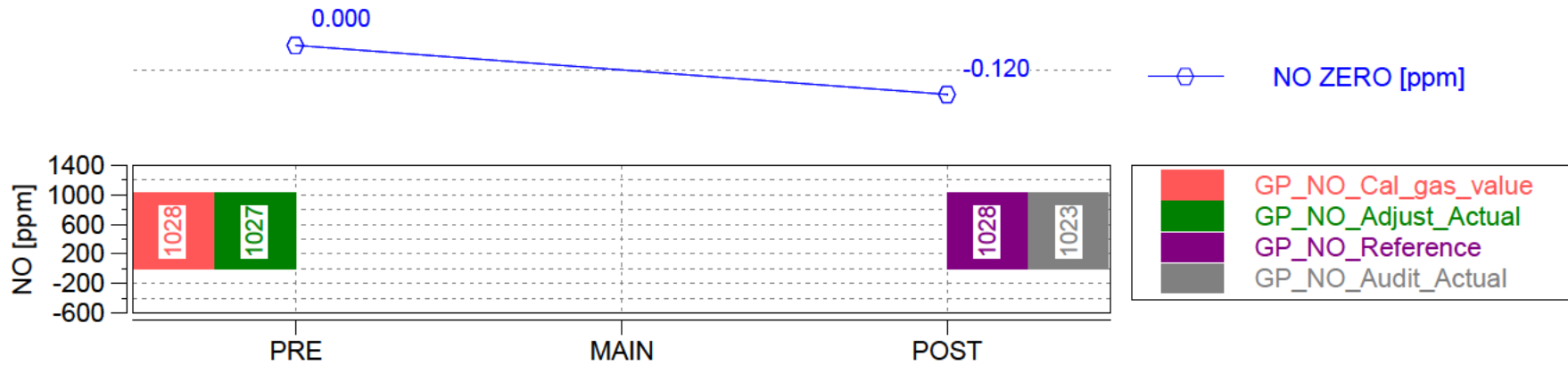
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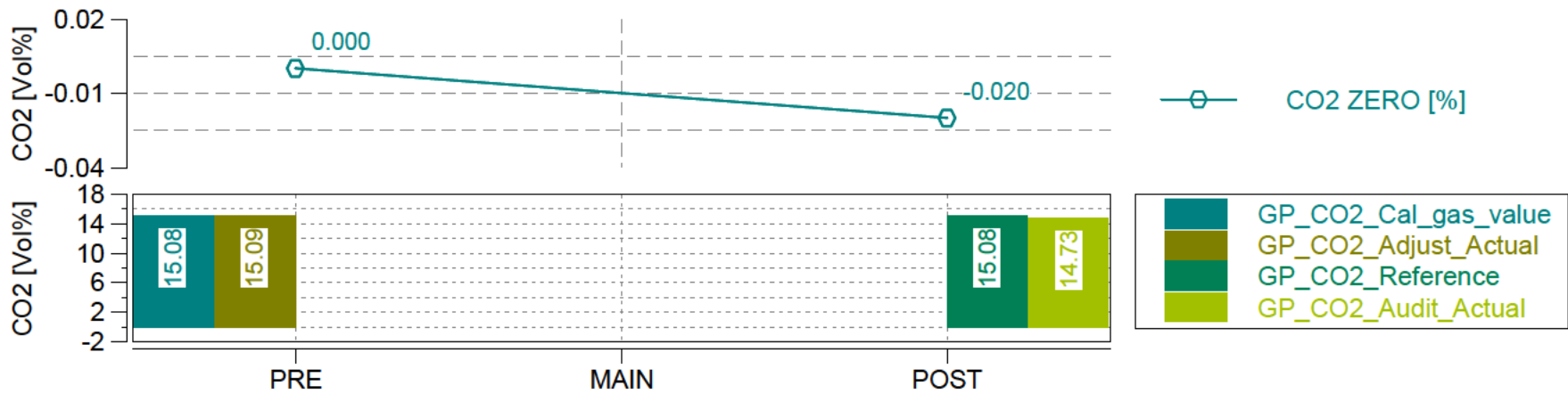
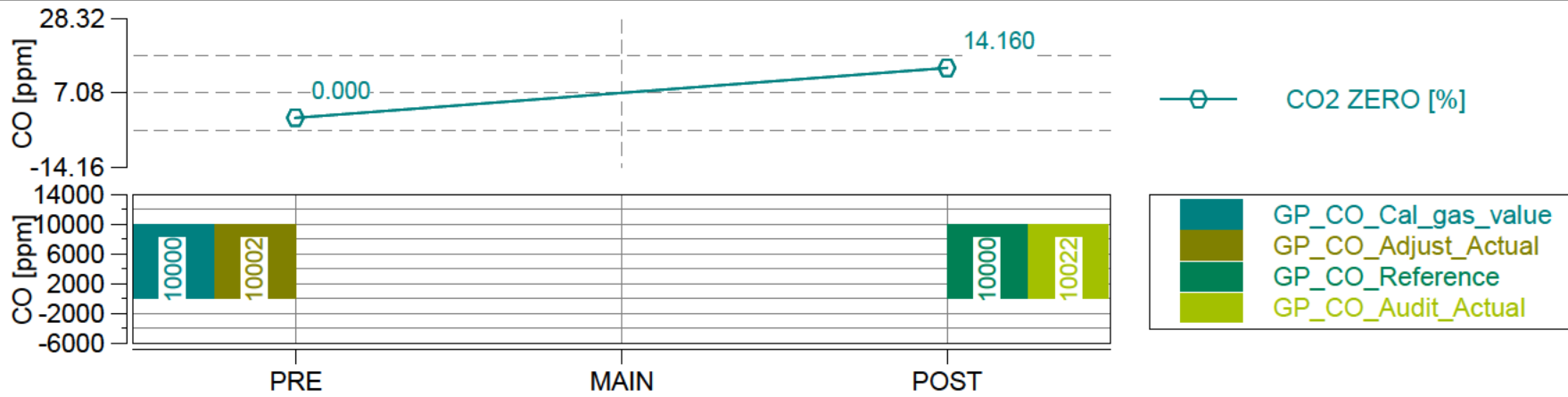
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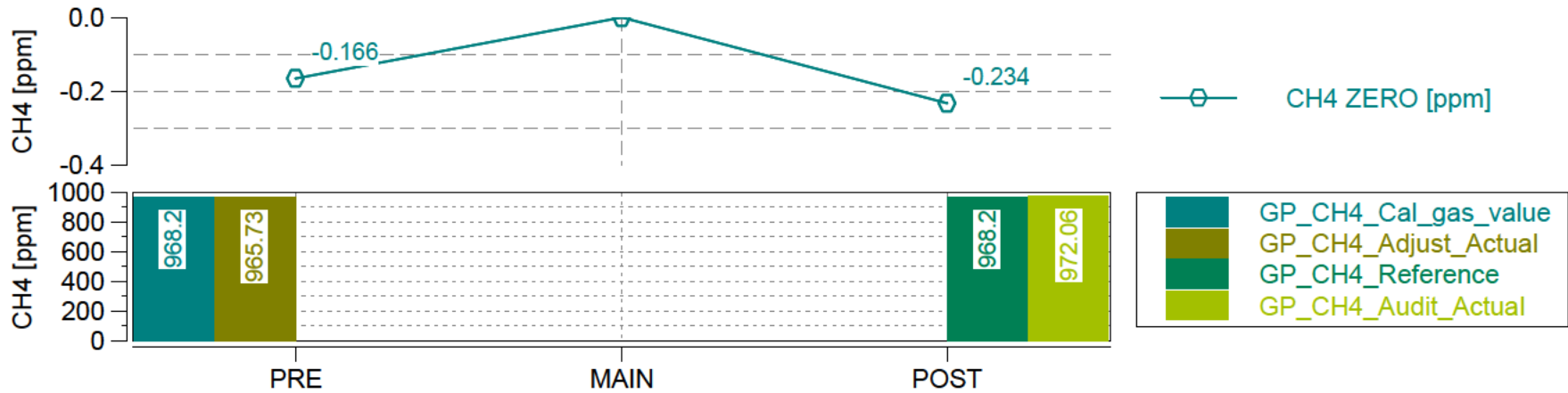
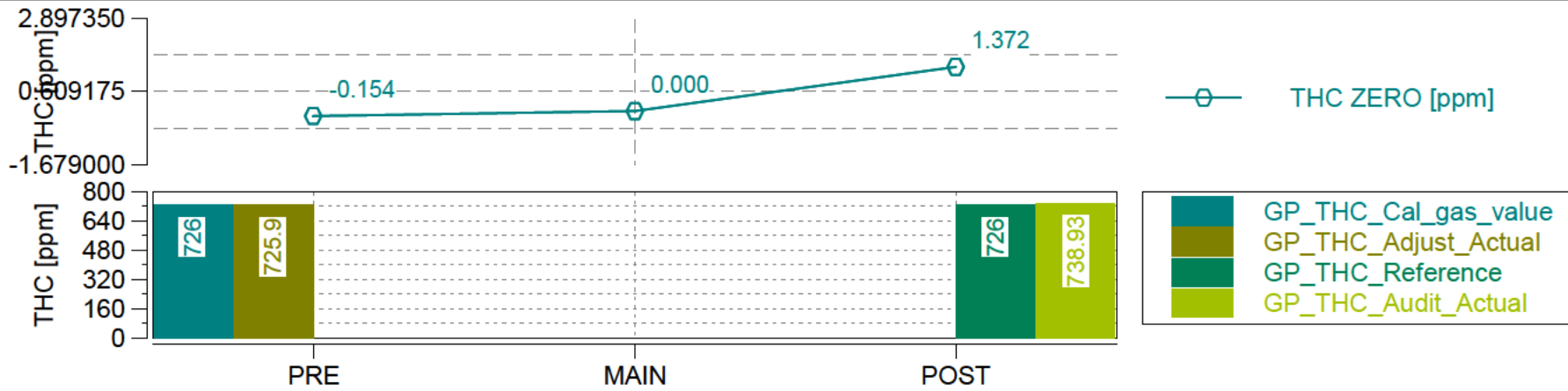
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Case: City
Page: Trip Summary

'City'
Start Date: 12/06/2019
Start Time: 13:37:54.0



Trip Duration	4637.00	s	ave THC	-0.08616	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	4637.00	s	ave NMHC	-0.08444	ppm	BS CO	n/a	g/hphr
Trip Distance	16.10	mi	ave CH4	-0.00172	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	16.10	mi	ave CO	13.16523	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	11.71700	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	5.32429	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.06	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.05	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	11.22	mpg_US	tot THC	-0.00402	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	11.24	mpg_US	tot NMHC	-0.00372	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	-0.00009	g	DS CO2	740.04748	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	0.79319	g	DS CO	0.04925	g/mi
Trip Fuel Economy EU GGE (ac)	11.22	mpg_US	tot CO2	11917.94415	g	DS THC	-0.00025	g/mi
Trip Fuel Economy US GGE (ac)	11.24	mpg_US	tot NO (d)	0.43684	g	DS NMHC	-0.00023	g/mi
Trip Av. Eng. Speed	1050.38	rpm	tot NO2	0.01983	g	DS CH4	-0.00001	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.45667	g	DS NO (d)	0.02713	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	0.00123	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.02836	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	64.74	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	65.36	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	59.90	%	Trip Av. Veh. Speed	12.50300	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	67.21	m	Trip Velocity Zero	34.78542	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	76.95106	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	23.04894	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	0.00000	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Trip Summary Drift Corrected

'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0



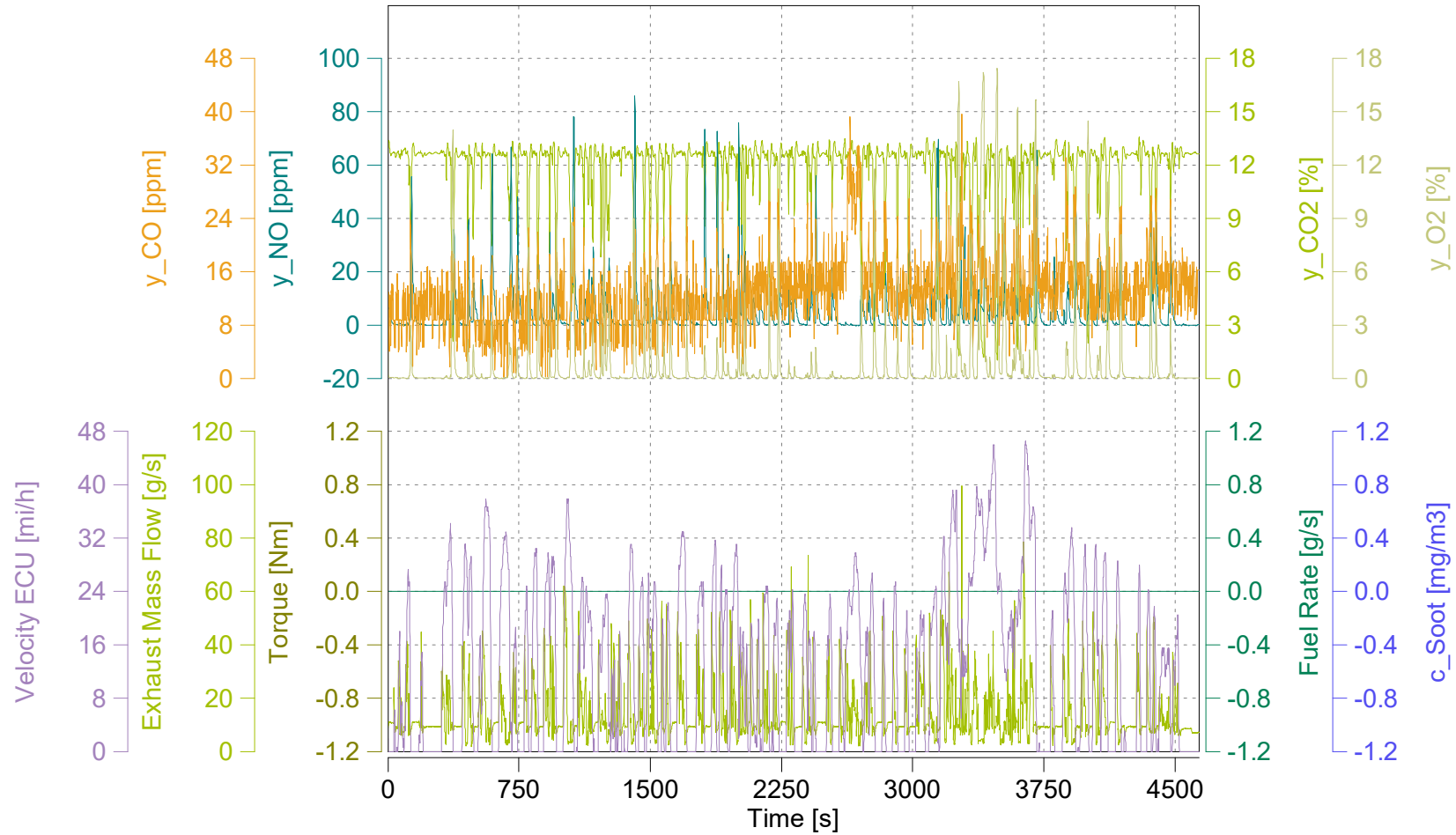
Concerto M.O.V.E., 2019

Trip Duration	4637.00	s	ave THC DC	0.44840	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	4637.00	s	ave NMHC DC	0.43944	ppm	BS CO DC	n/a	g/hphr
Trip Distance	16.10	mi	ave CH4 DC	0.00897	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	16.10	mi	ave CO DC	13.71878	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	12.12936	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	5.66366	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.06	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.05	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	0.01320	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	11.22	mpg_US	tot NMHC DC	0.01221	g			
Trip Fuel Economy US (ac)	11.24	mpg_US	tot CH4 DC	0.00029	g	DS CO2 DC	766.03334	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	0.82745	g	DS CO DC	0.05138	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	12336.42810	g	DS THC DC	0.00082	g/mi
Trip Fuel Economy EU GGE (ac)	11.22	mpg_US	tot NO DC (d)	0.44492	g	DS NMHC DC	0.00076	g/mi
Trip Fuel Economy US GGE (ac)	11.24	mpg_US	tot NO2 DC	0.04549	g	DS CH4 DC	0.00002	g/mi
			tot NOx DC	0.49041	g	DS NO DC (d)	0.02763	g/mi
Trip Av. Eng. Speed	1050.38	rpm	tot Soot	n/a	g	DS NO2 DC	0.00282	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.03045	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	64.74	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	12.50300	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	65.36	deg_F	Trip Velocity Zero	34.78542	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	59.90	%	Trip Velocity Urban	76.95106	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	67.21	m	Trip Velocity Rural	23.04894	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	0.00000	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

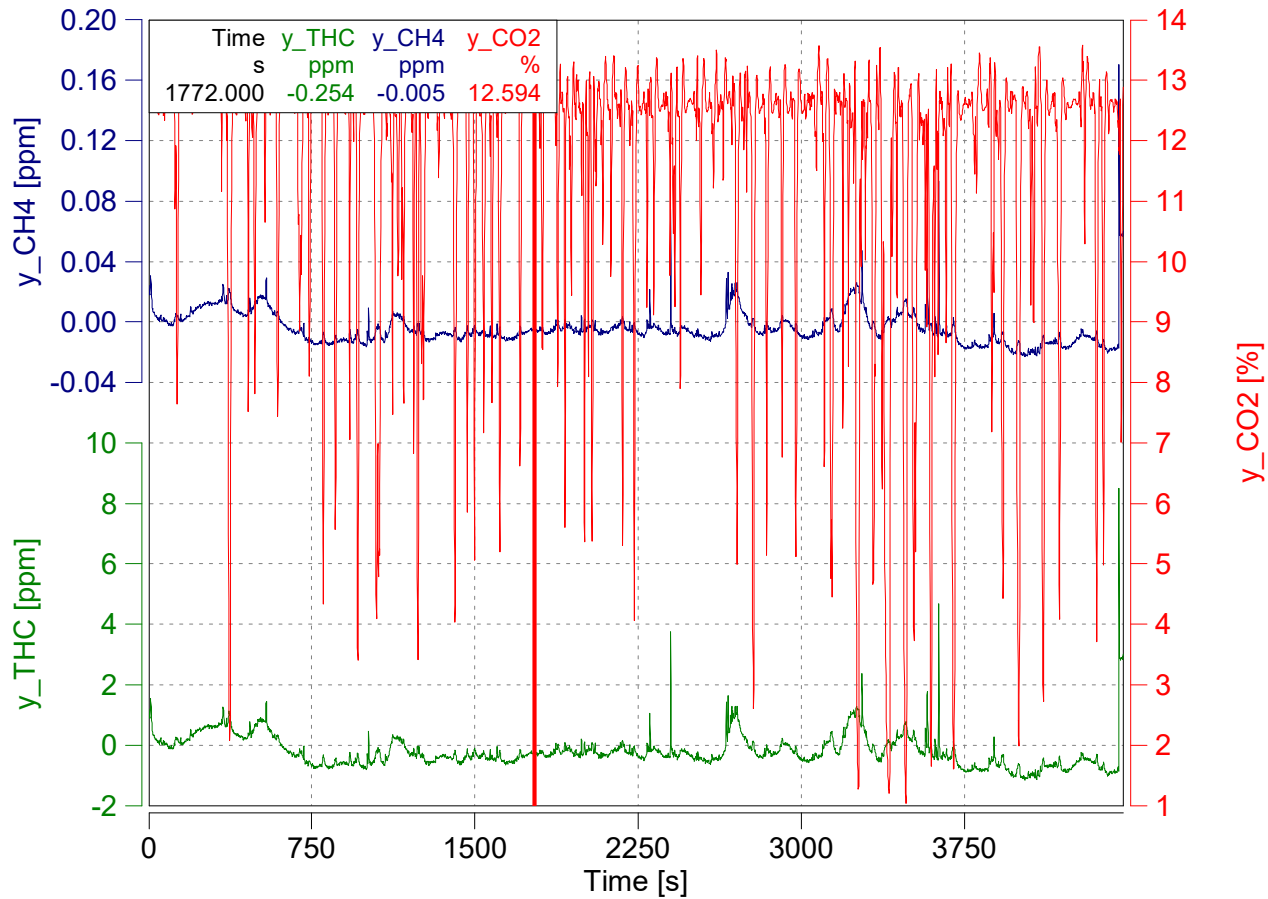
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 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

y_THC	s	-4.3
y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Ambient Conditions

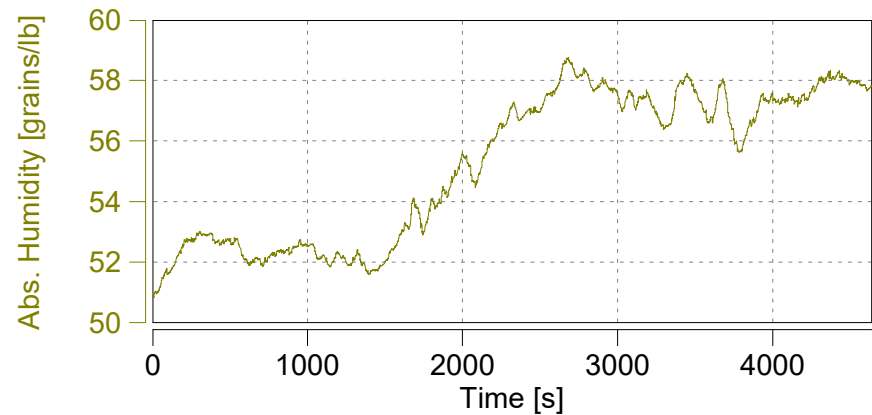
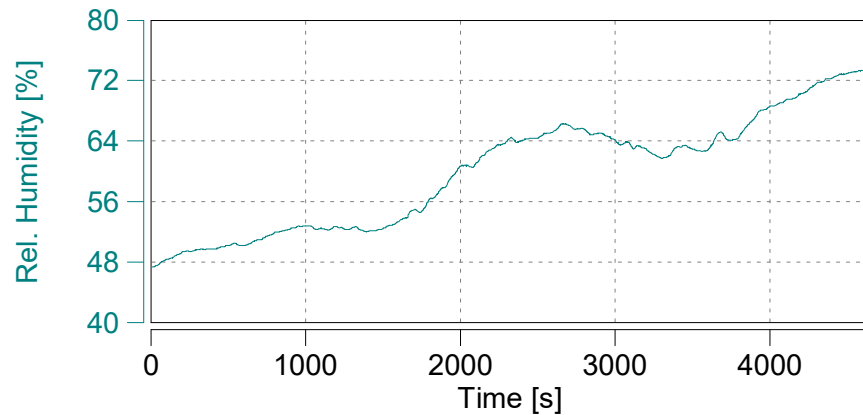
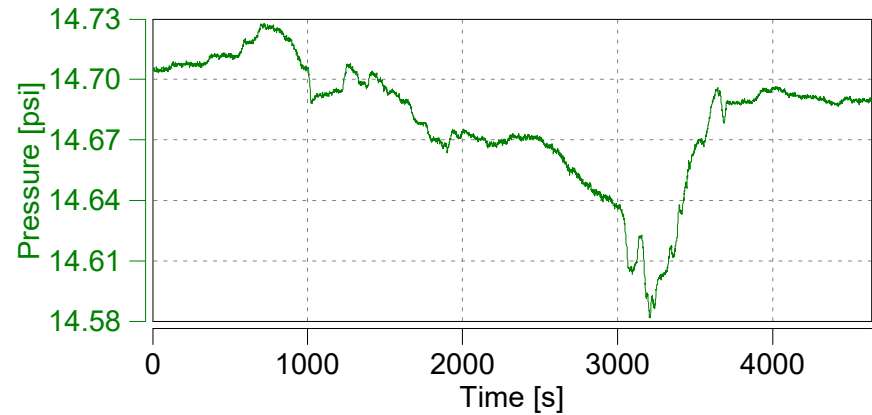
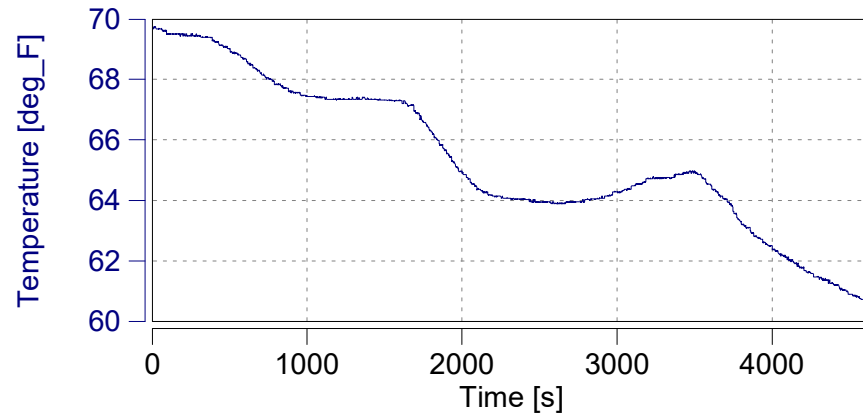
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0

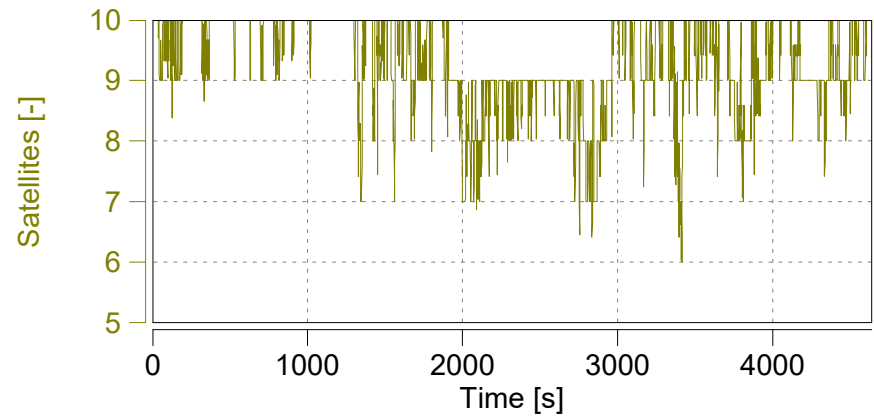
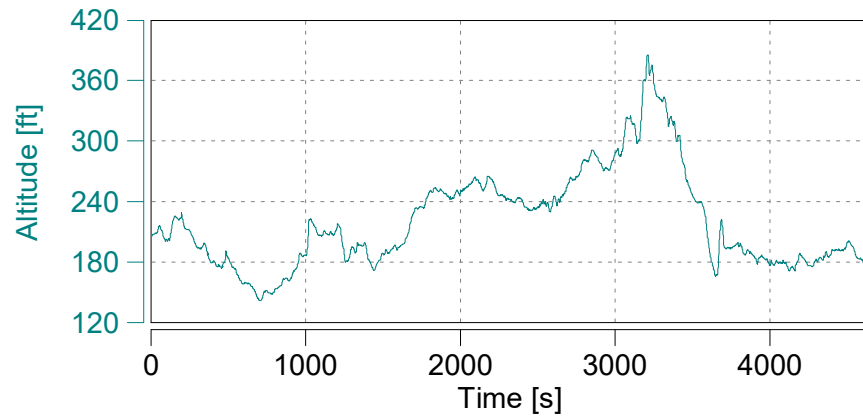
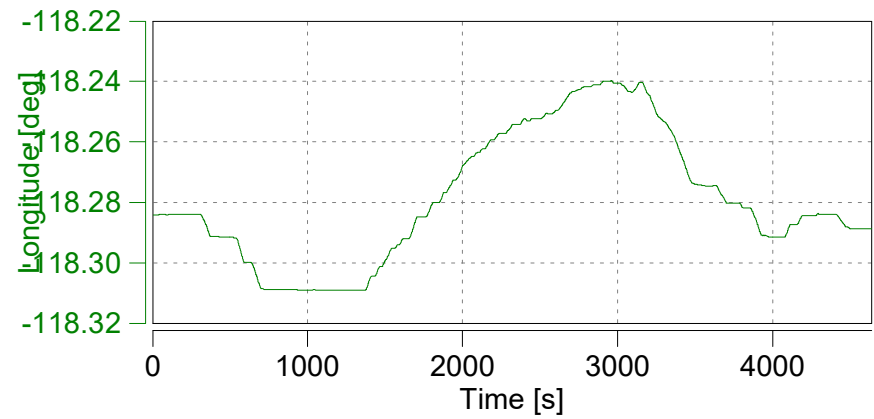
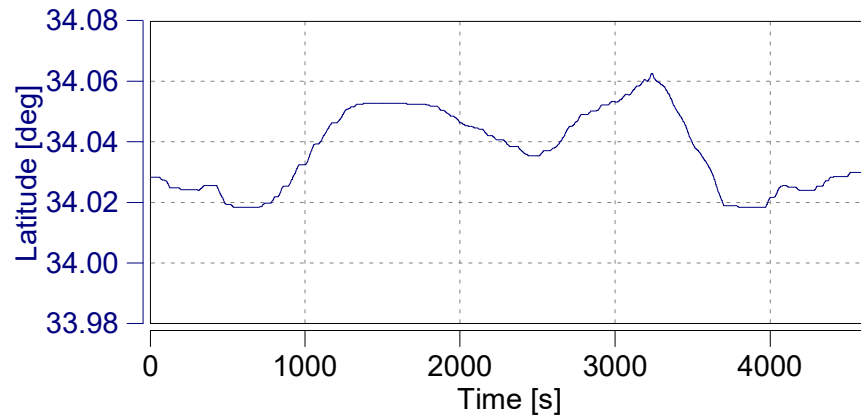


Concerto M.O.V.E., 2019



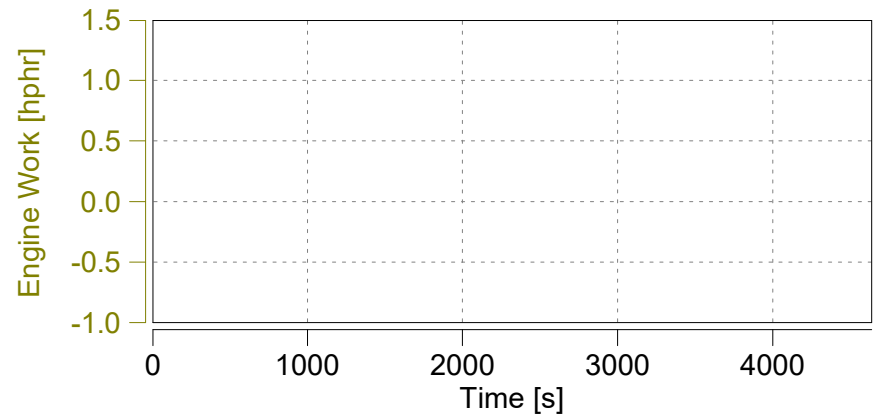
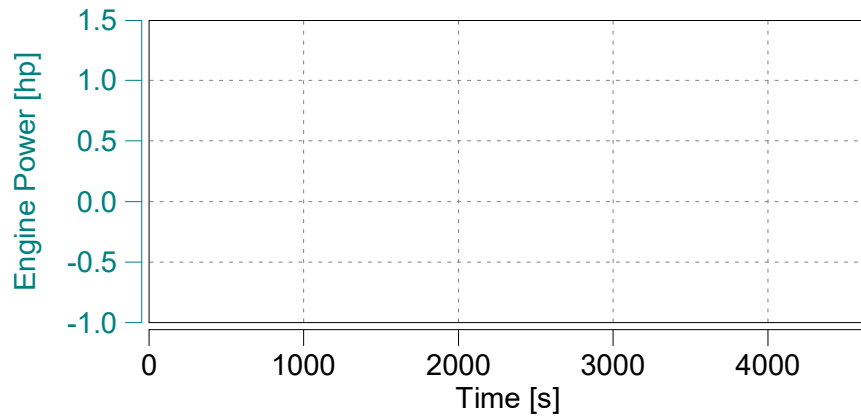
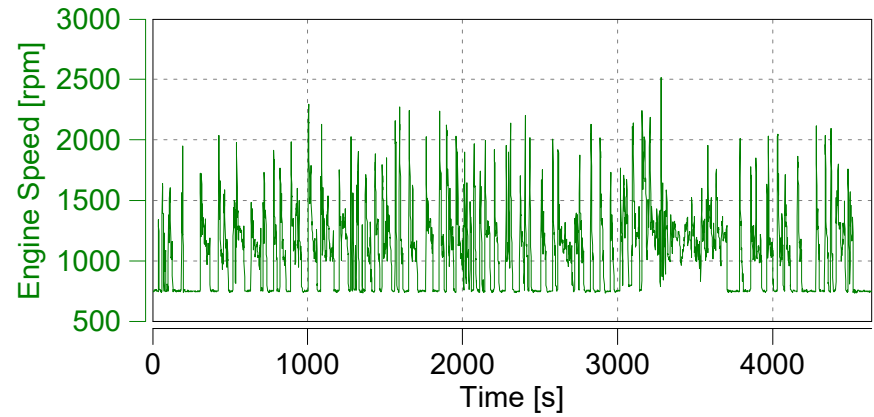
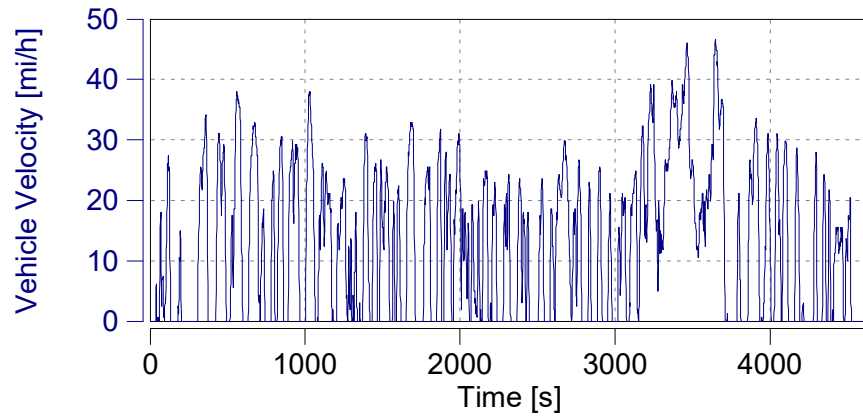
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Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



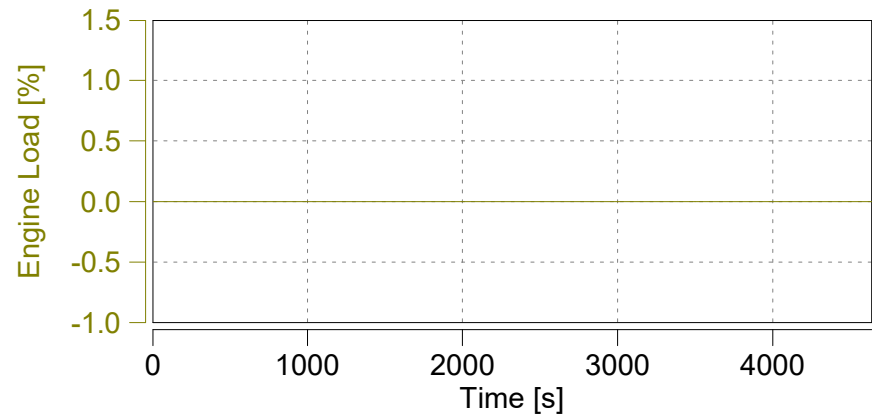
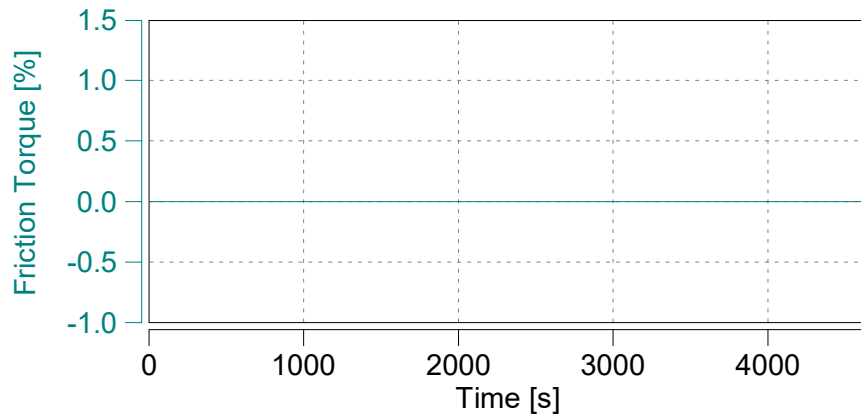
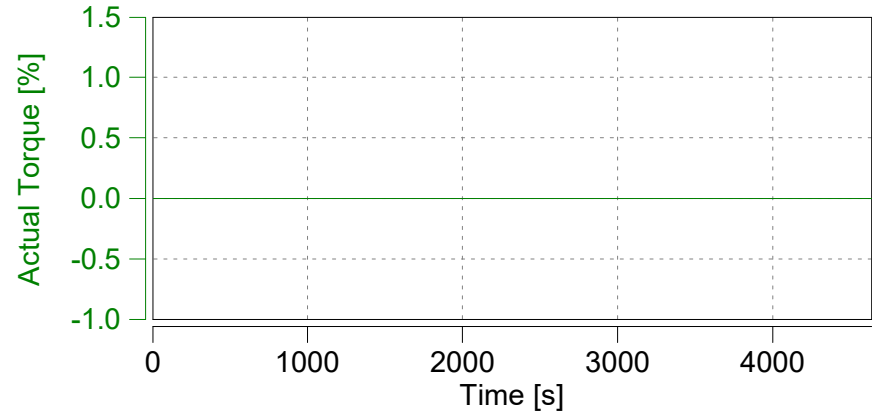
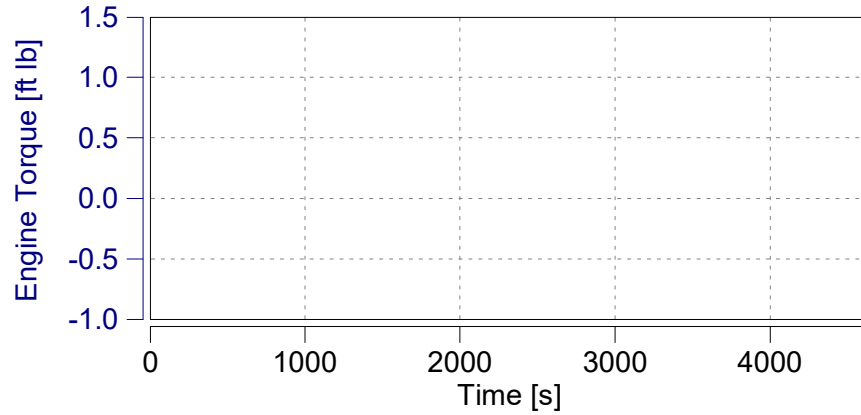
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Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (3)

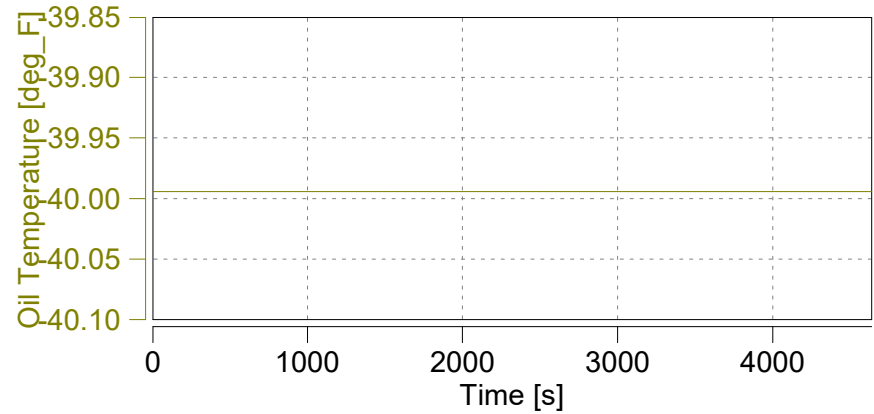
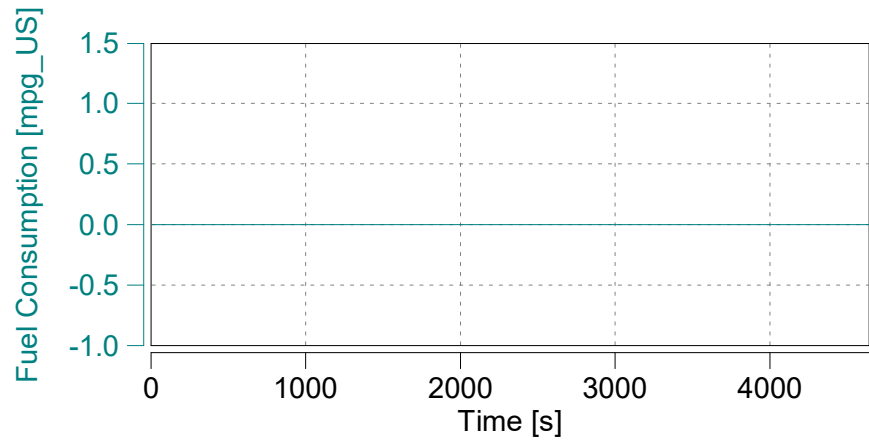
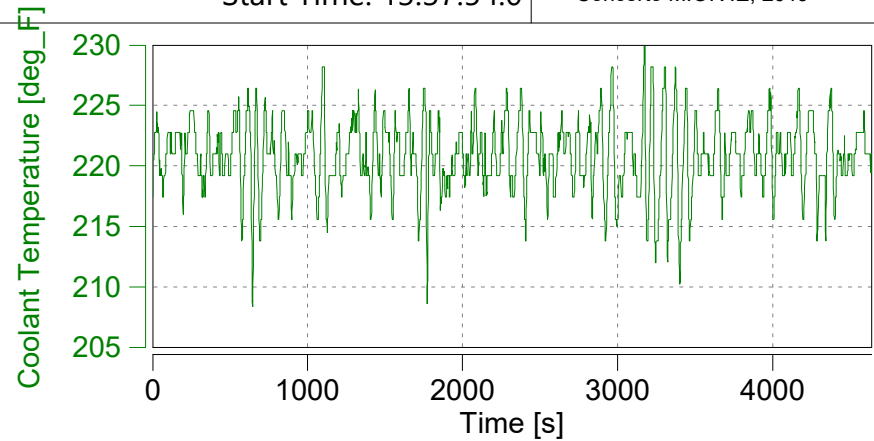
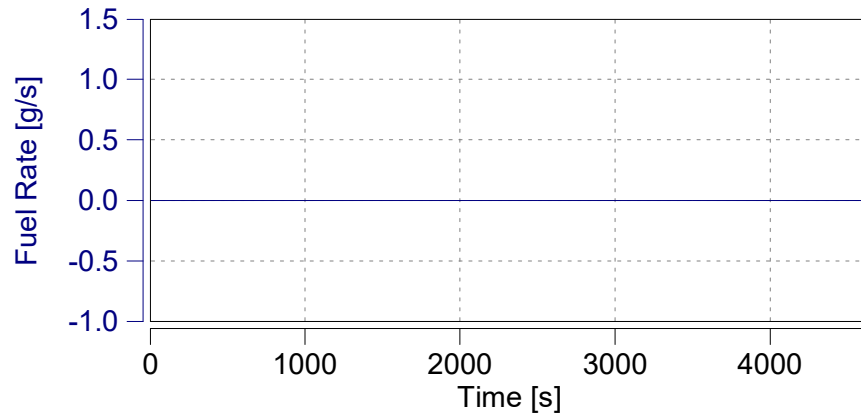
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0



Concerto M.O.V.E, 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Exhaust Flow (1)

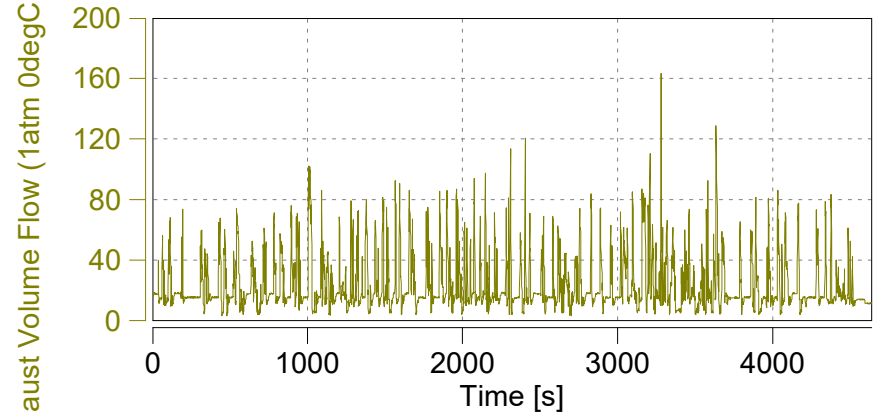
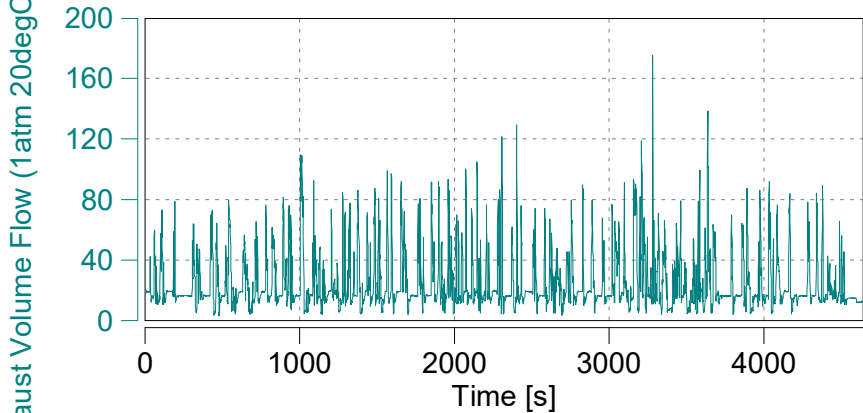
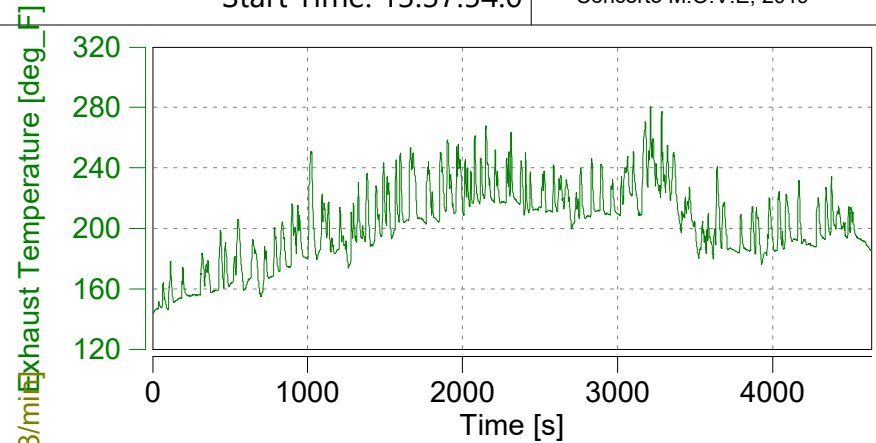
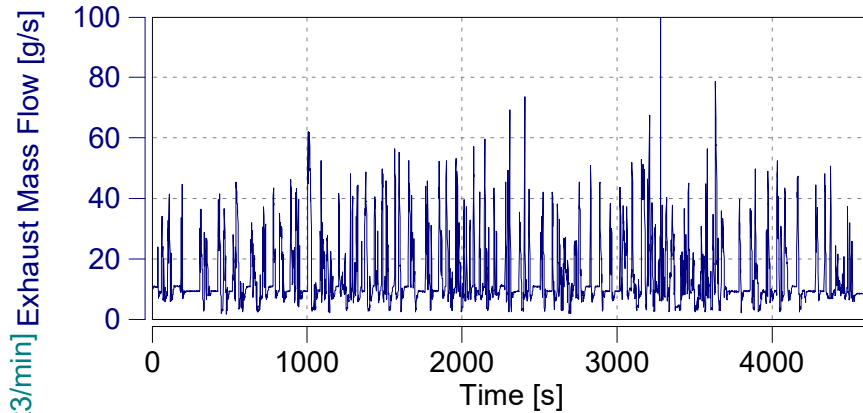
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Start Date: 12/06/2019

Start Time: 13:37:54.0

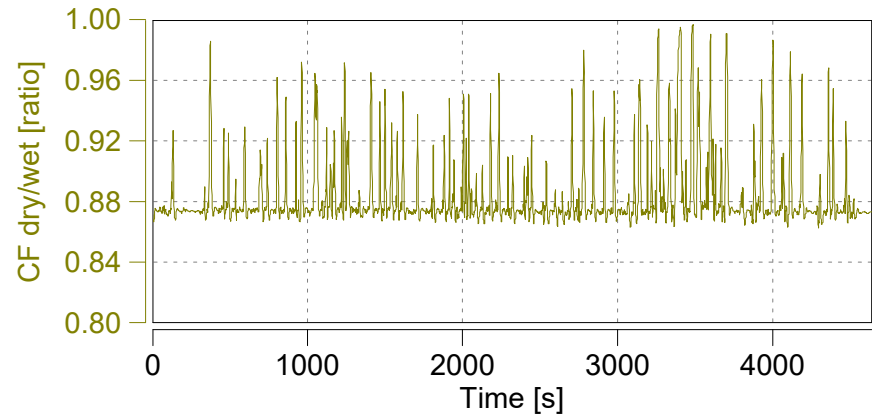
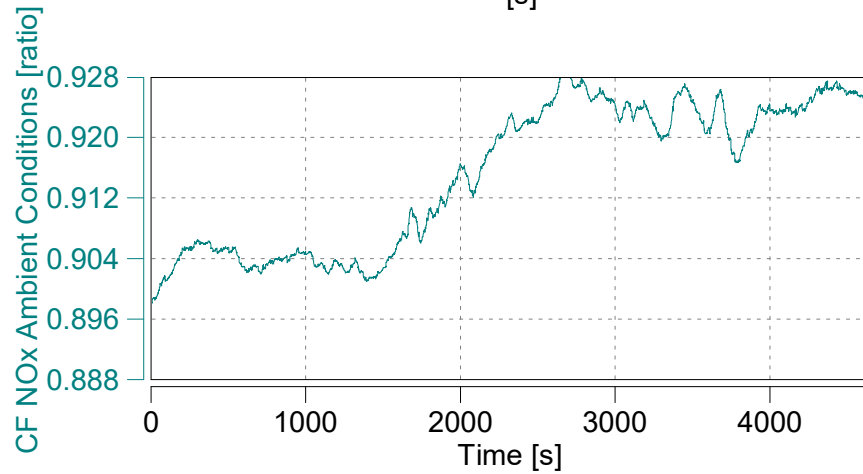
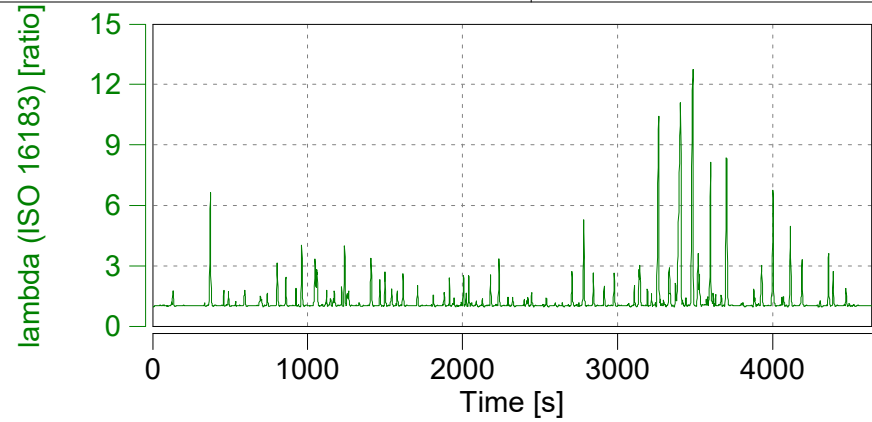
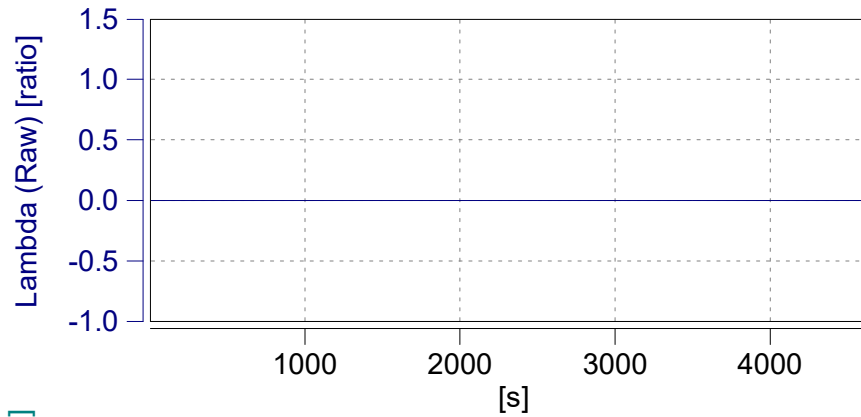


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (1)

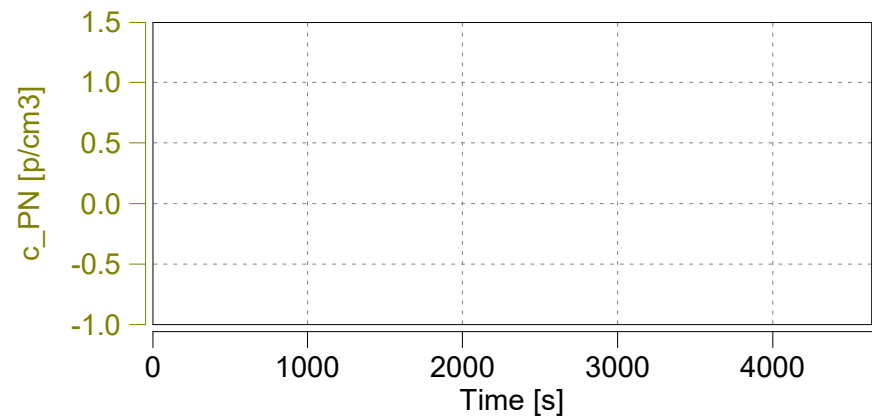
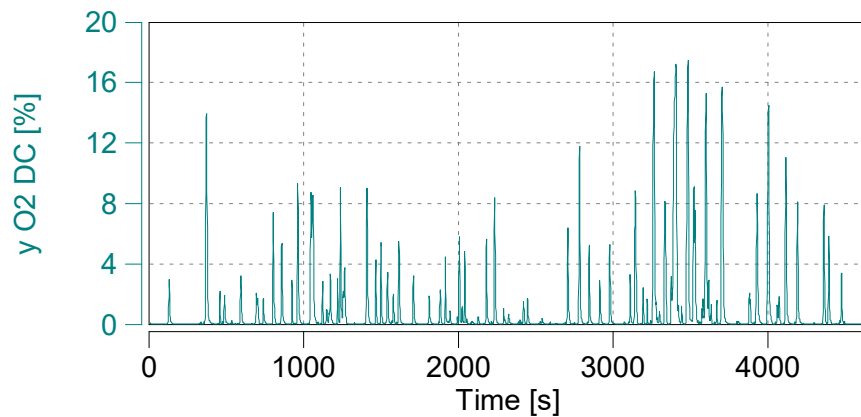
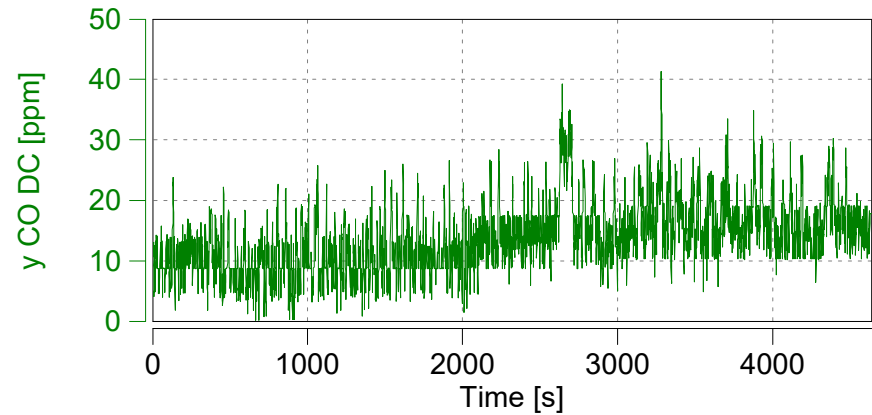
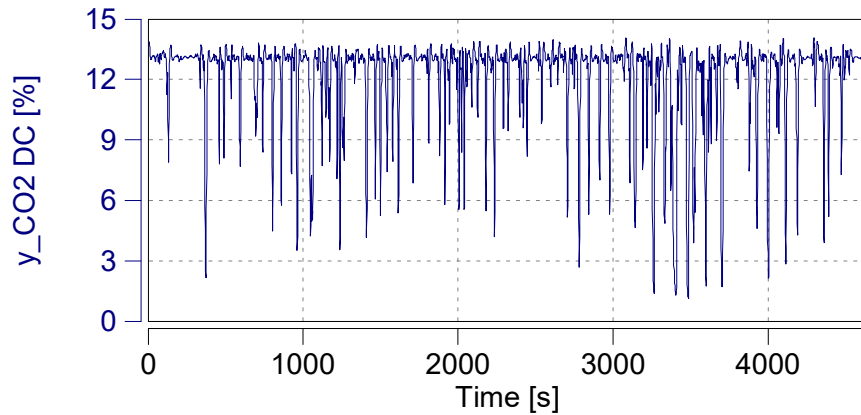
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (2)

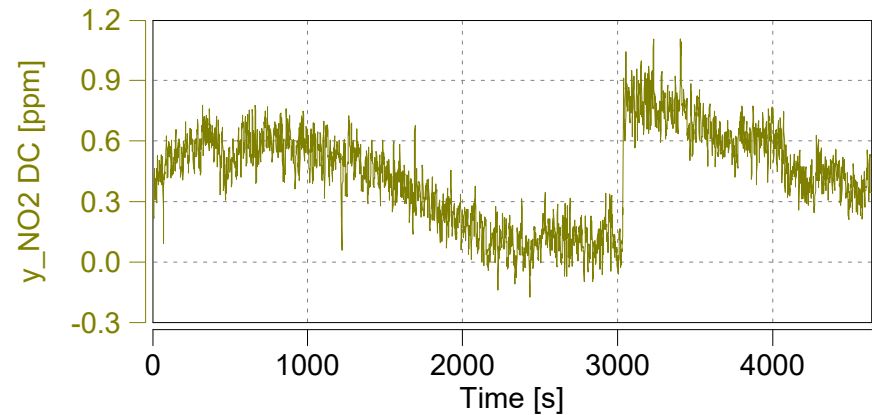
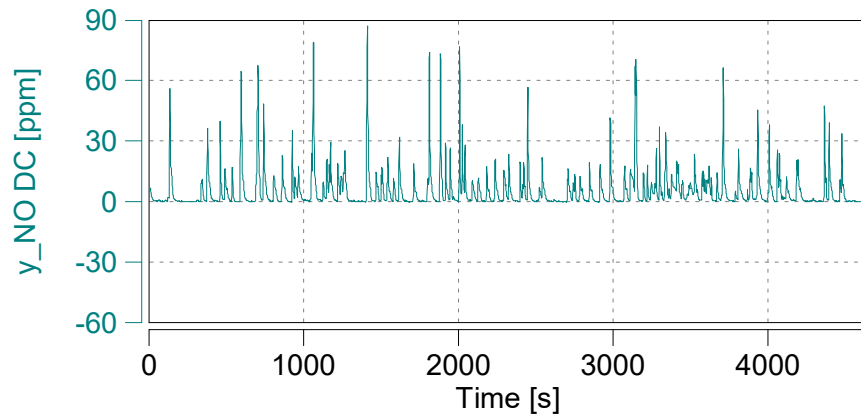
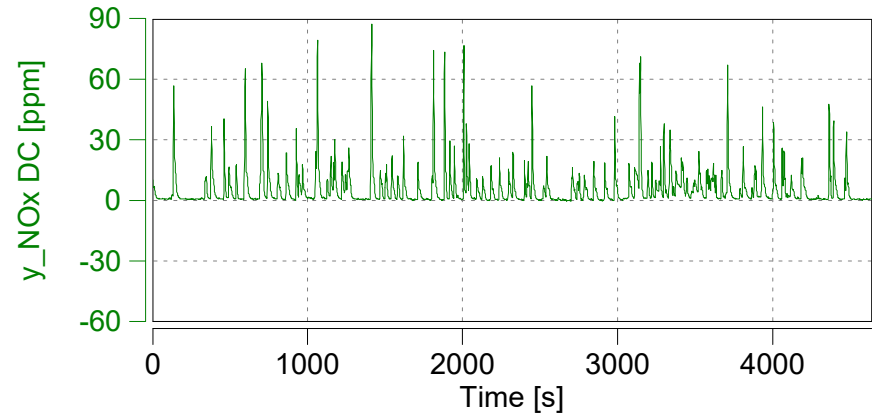
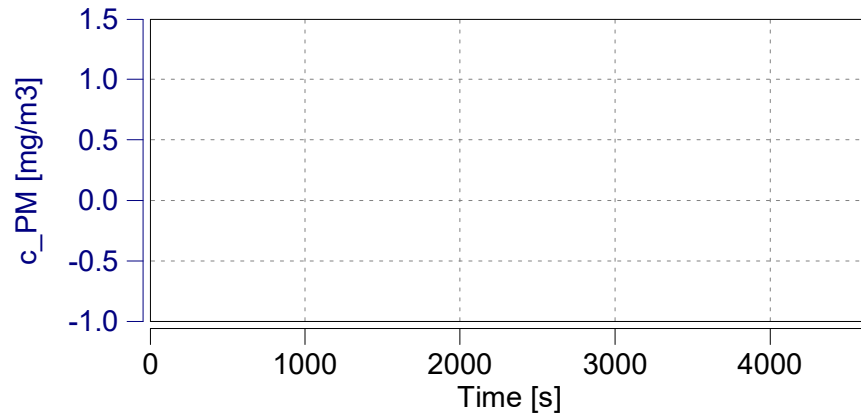
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0

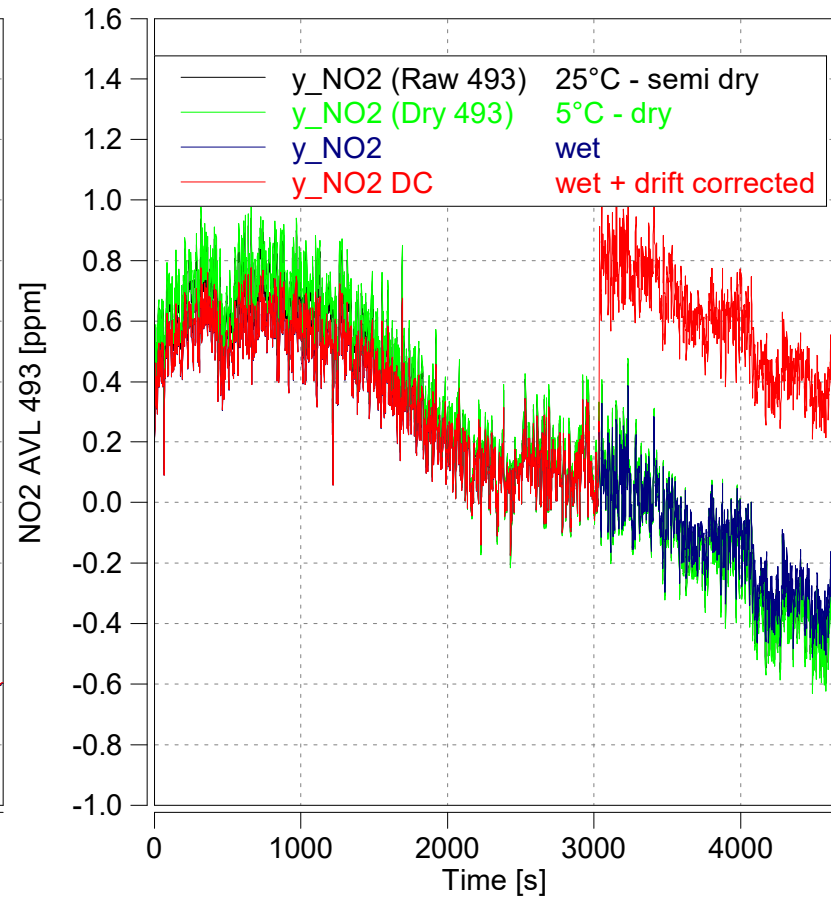
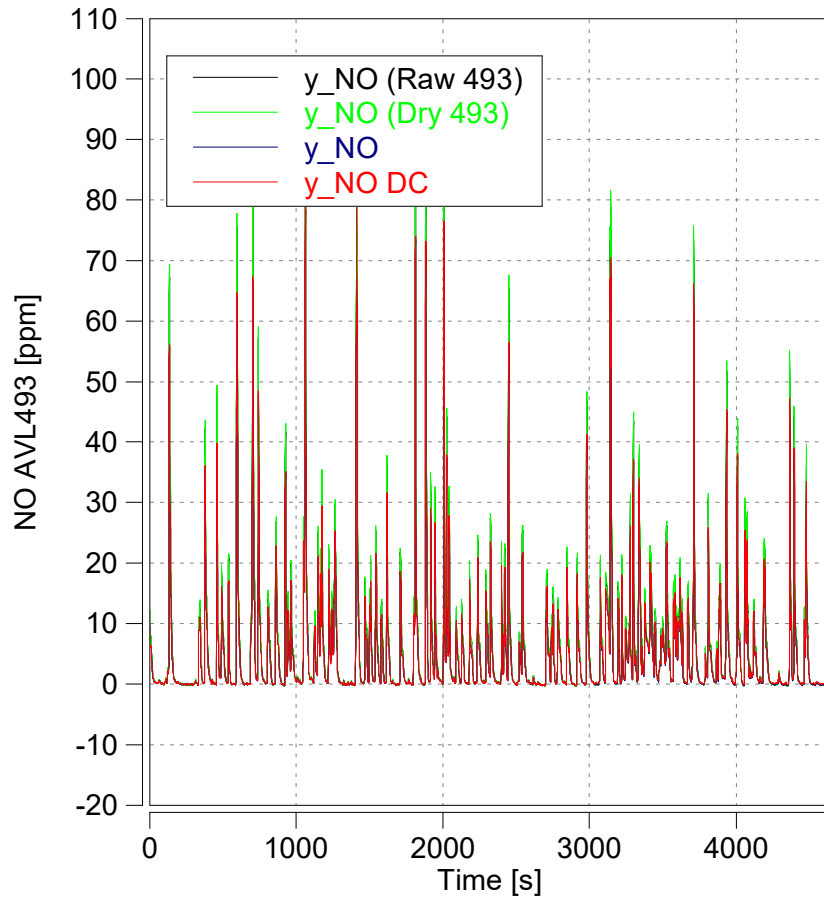


Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

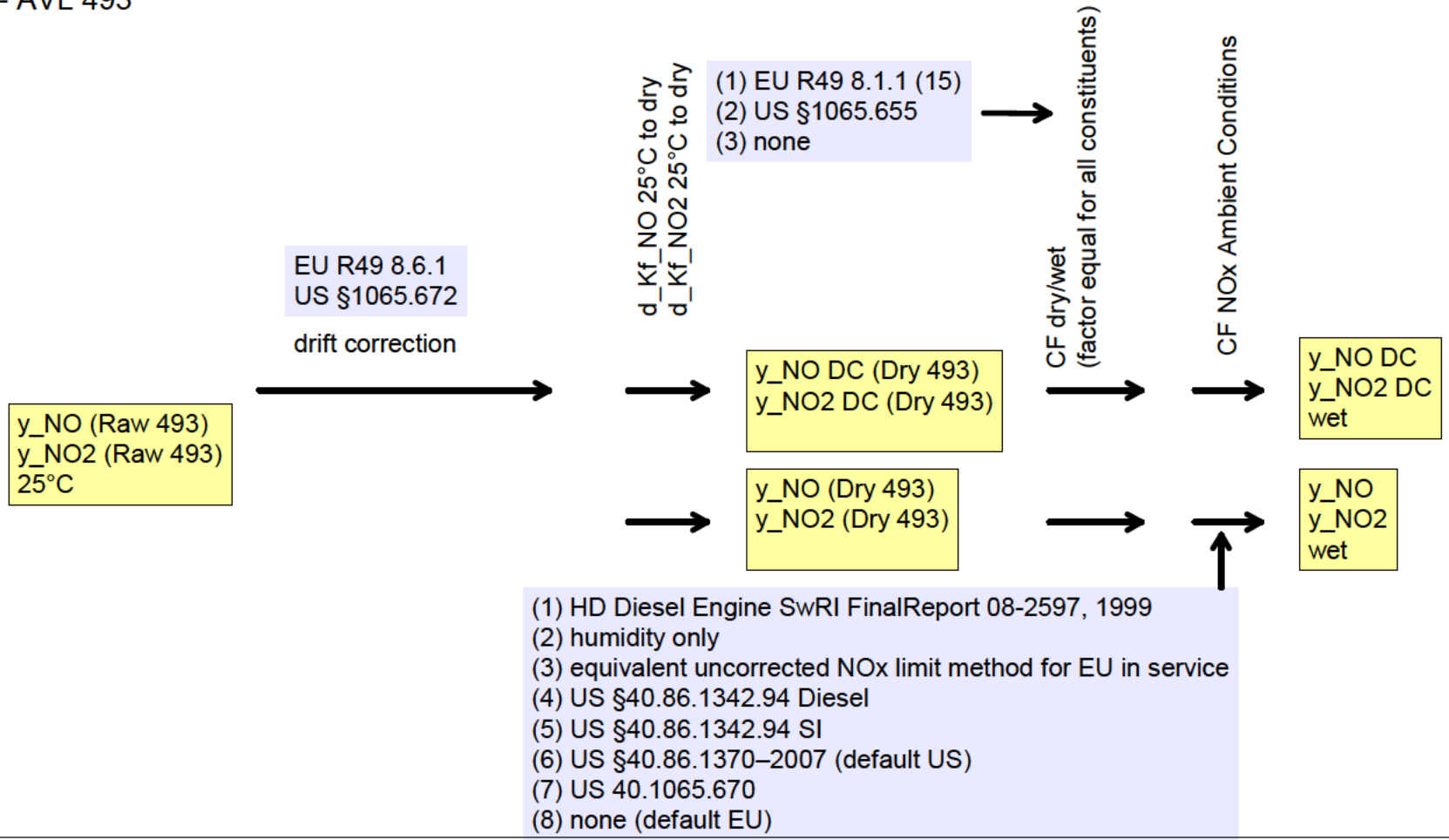
Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

NOx - AVL 493



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Corrected Emissions (5)

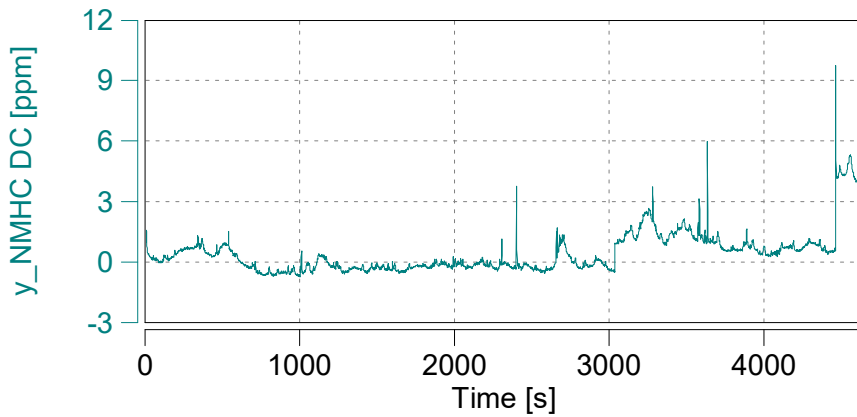
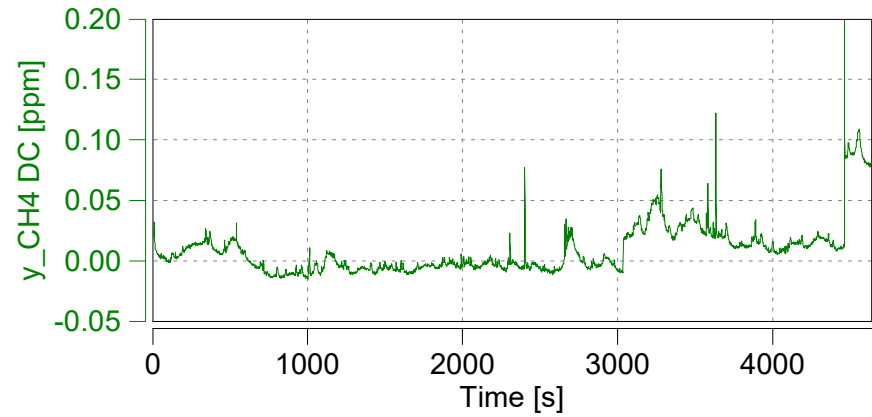
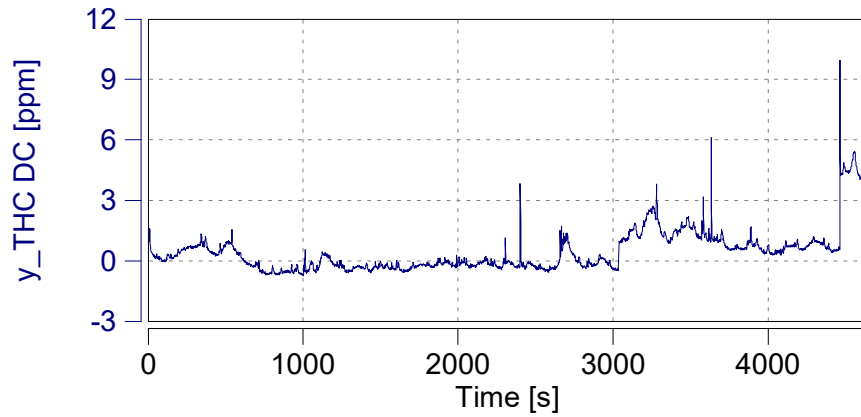
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0

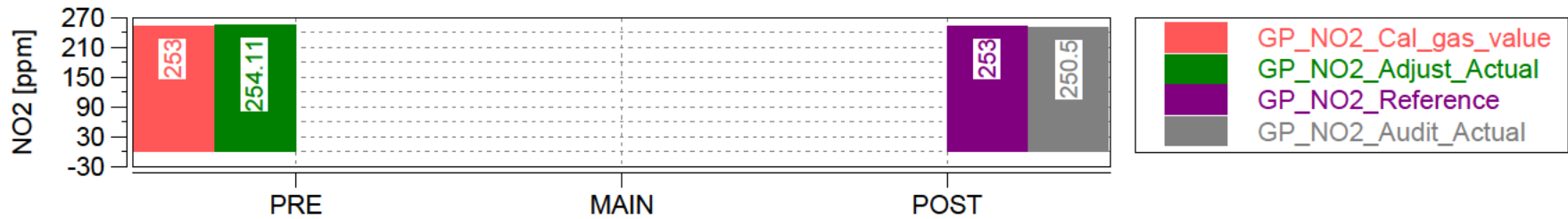
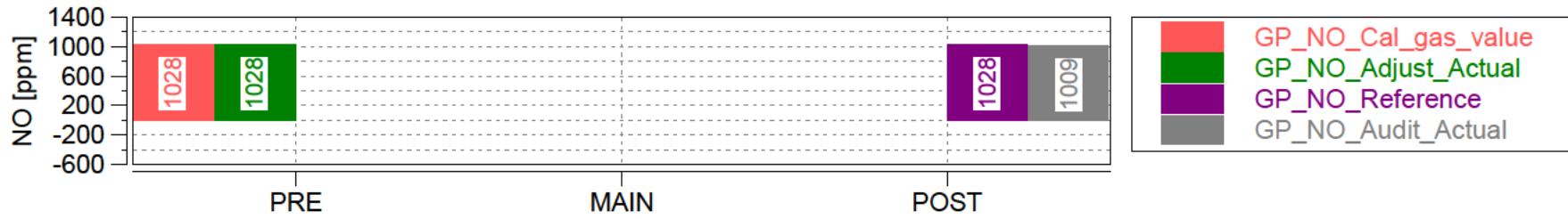
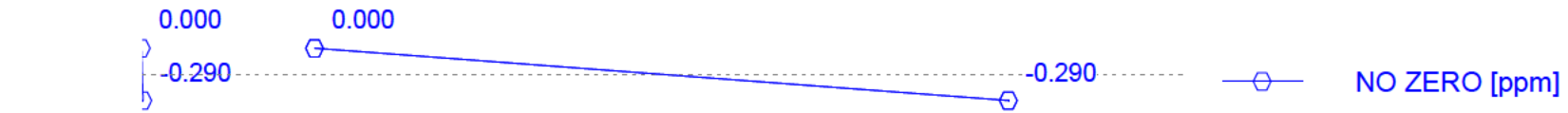


Concerto M.O.V.E., 2019



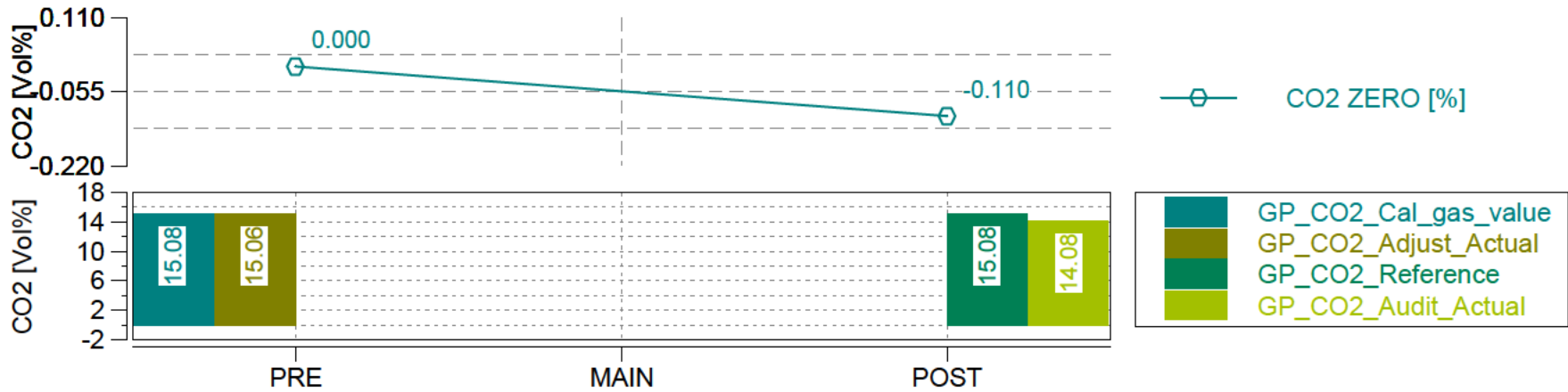
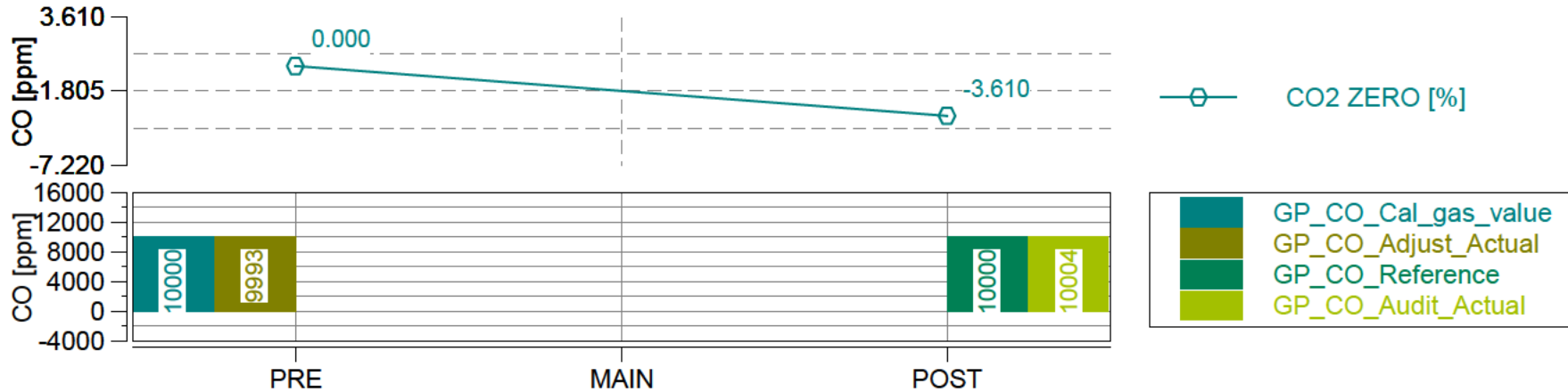
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Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: THC/CH4 Zero - Span

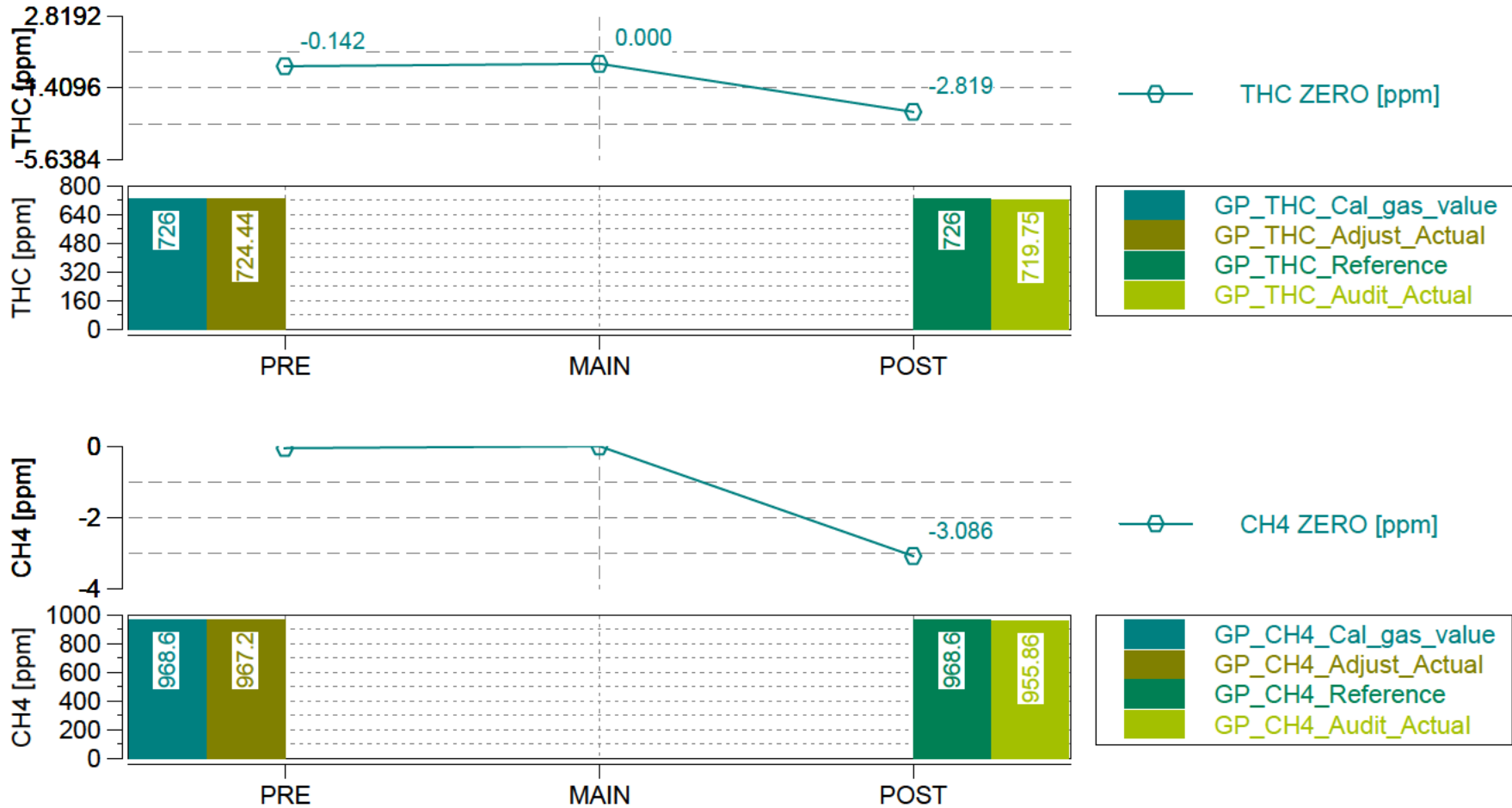
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway
Page: Trip Summary

'Highway'
Start Date: 12/06/2019
Start Time: 13:37:54.0



Trip Duration	2771.00	s	ave THC	-0.84019	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	2771.00	s	ave NMHC	-0.82339	ppm	BS CO	n/a	g/hphr
Trip Distance	37.94	mi	ave CH4	-0.01680	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	37.94	mi	ave CO	34.56719	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	11.09817	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	1.98813	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.00	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.99	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	26.82	mpg_US	tot THC	-0.00902	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	26.89	mpg_US	tot NMHC	-0.00834	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	-0.00020	g	DS CO2	309.25227	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	2.96291	g	DS CO	0.07809	g/mi
Trip Fuel Economy EU GGE (ac)	26.82	mpg_US	tot CO2	11734.40762	g	DS THC	-0.00024	g/mi
Trip Fuel Economy US GGE (ac)	26.89	mpg_US	tot NO (d)	0.27074	g	DS NMHC	-0.00022	g/mi
Trip Av. Eng. Speed	1520.55	rpm	tot NO2	-0.10721	g	DS CH4	-0.00001	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.16352	g	DS NO (d)	0.00714	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	-0.00283	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00431	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	66.57	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	57.80	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	89.79	%	Trip Av. Veh. Speed	49.29730	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	19.42	m	Trip Velocity Zero	1.94875	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	5.52079	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	6.36732	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	88.11189	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Trip Summary Drift Corrected

'Highway'

Start Date: 12/06/2019

Start Time: 13:37:54.0



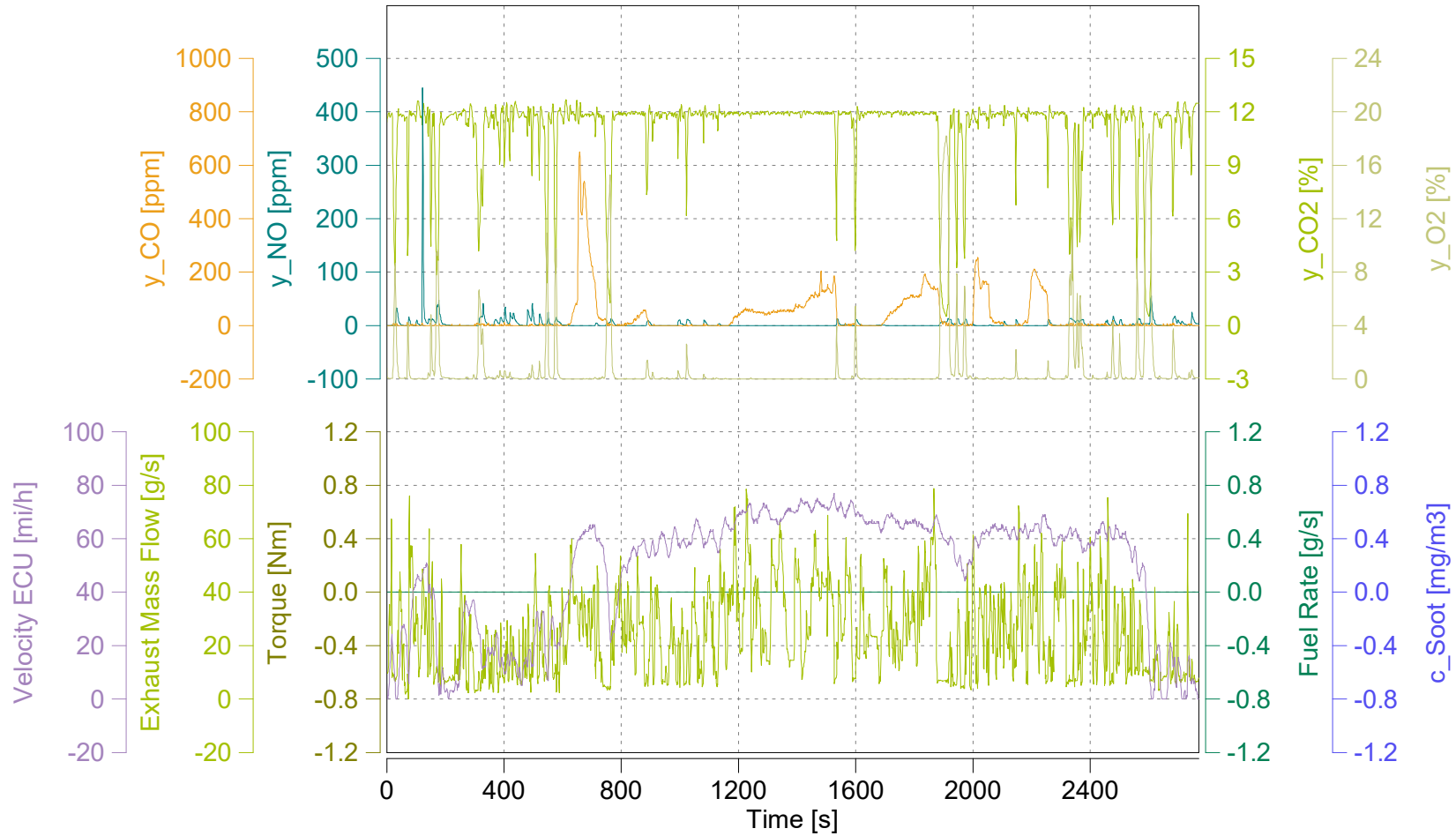
Concerto M.O.V.E., 2019

Trip Duration	2771.00	s	ave THC DC	-0.77339	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2771.00	s	ave NMHC DC	-0.75792	ppm	BS CO DC	n/a	g/hphr
Trip Distance	37.94	mi	ave CH4 DC	-0.01547	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	37.94	mi	ave CO DC	34.57103	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	11.48665	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	2.01216	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.99	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	26.82	mpg_US	tot THC DC	-0.00670	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	26.89	mpg_US	tot NMHC DC	-0.00620	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4 DC	-0.00015	g	DS CO2 DC	320.07716	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO DC	2.96324	g	DS CO DC	0.07809	g/mi
Trip Fuel Economy EU GGE (ac)	26.82	mpg_US	tot CO2 DC	12145.15216	g	DS THC DC	-0.00018	g/mi
Trip Fuel Economy US GGE (ac)	26.89	mpg_US	tot NO DC (d)	0.27315	g	DS NMHC DC	-0.00016	g/mi
Trip Av. Eng. Speed	1520.55	rpm	tot NO2 DC	-0.10751	g	DS CH4 DC	-0.00000	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.16565	g	DS NO DC (d)	0.00720	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	-0.00283	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.00437	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	66.57	kg	tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN DC	n/a	#/mi
Trip Av. Amb. Temperature	57.80	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Av. Humidity	89.79	%	Trip Av. Veh. Speed	49.29730	mi/hr	FS CO DC	n/a	g/kg
Trip Av. GPS Altitude	19.42	m	Trip Velocity Zero	1.94875	%	FS THC DC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	5.52079	%	FS NMHC DC	n/a	g/kg
			Trip Velocity Rural	6.36732	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Motorway	88.11189	%	FS NO DC (d)	n/a	g/kg
						FS NO2 DC	n/a	g/kg
						FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

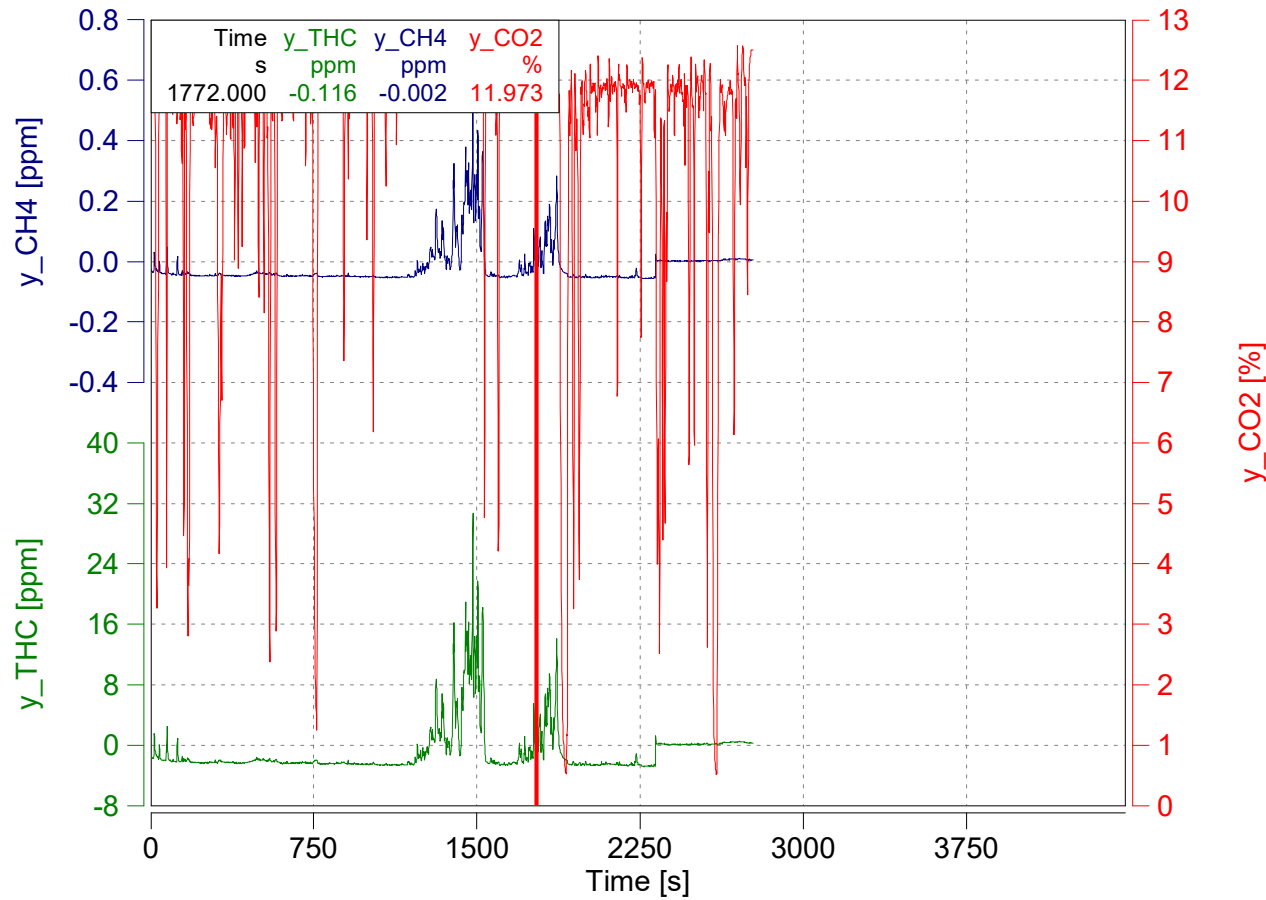
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

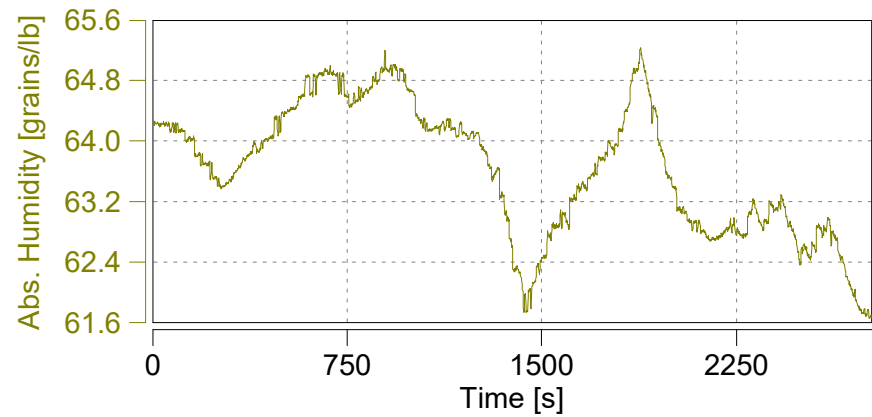
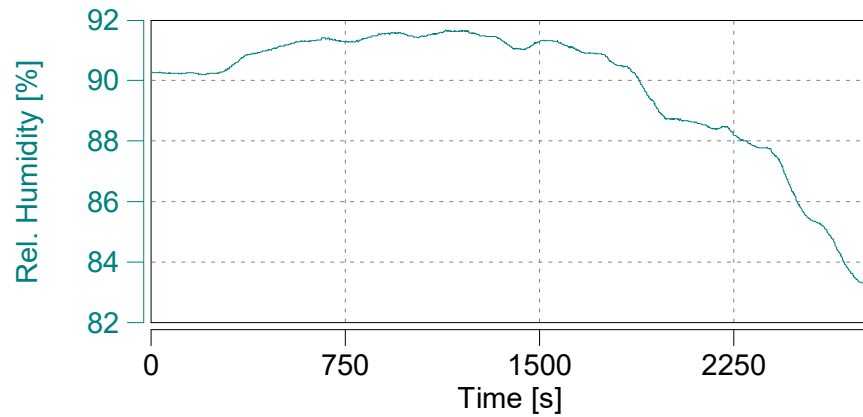
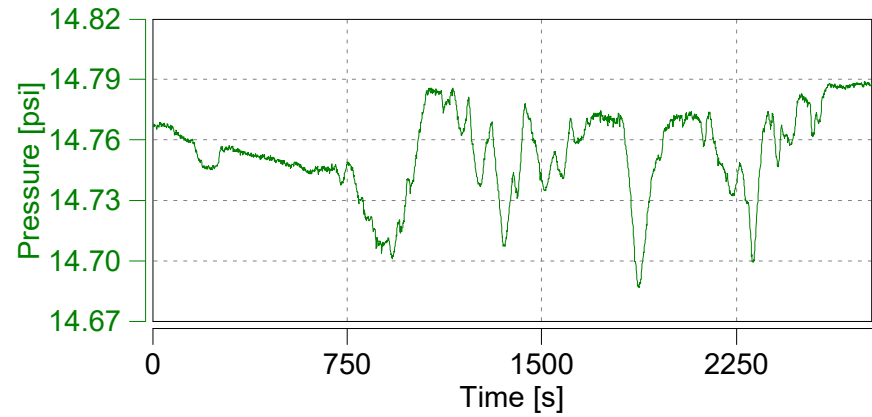
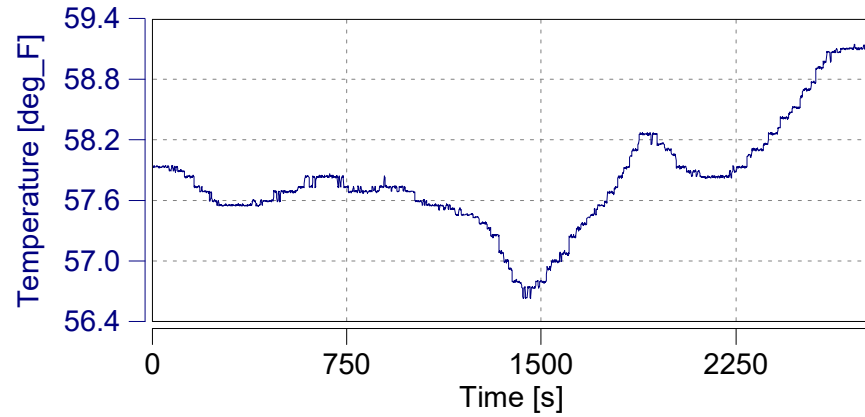
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
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 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: GPS

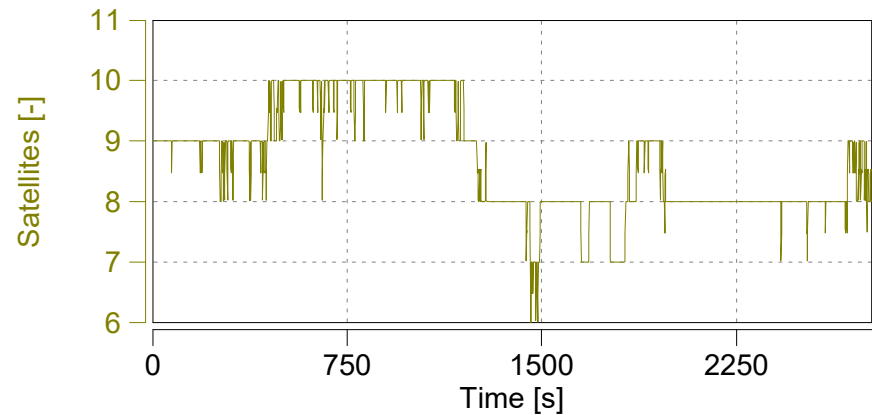
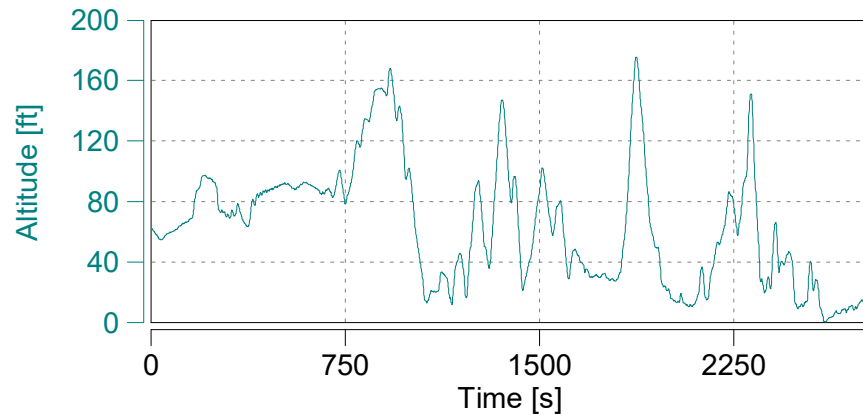
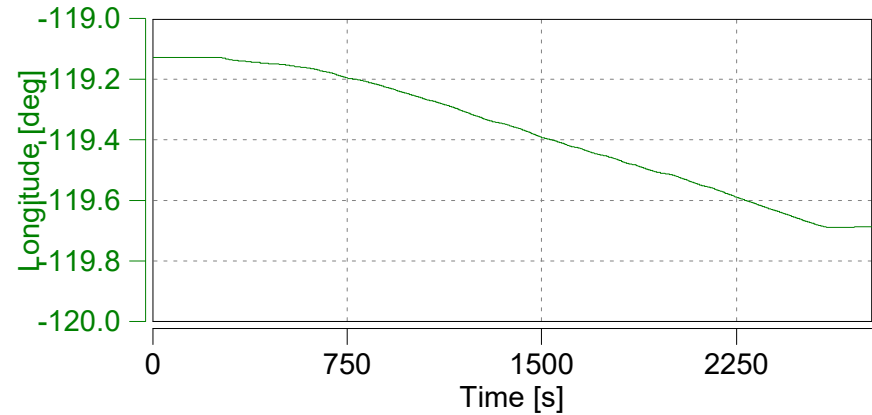
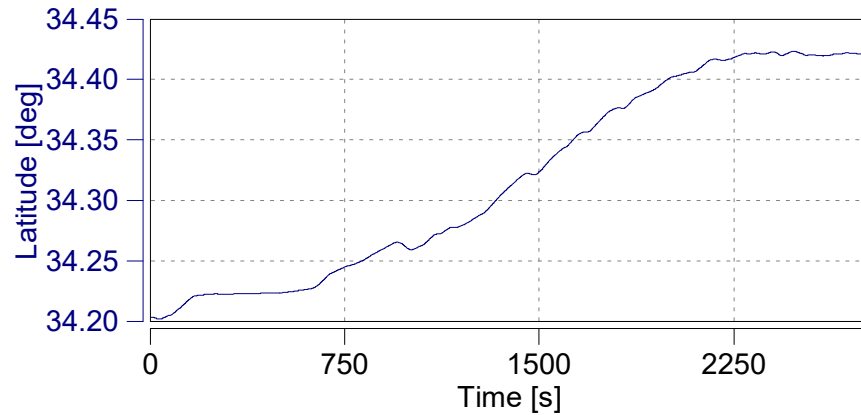
'Highway'

Start Date: 12/06/2019

Start Time: 13:37:54.0

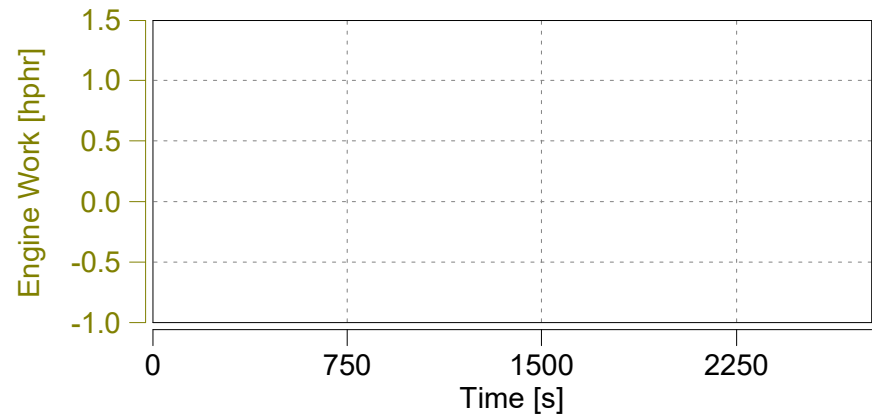
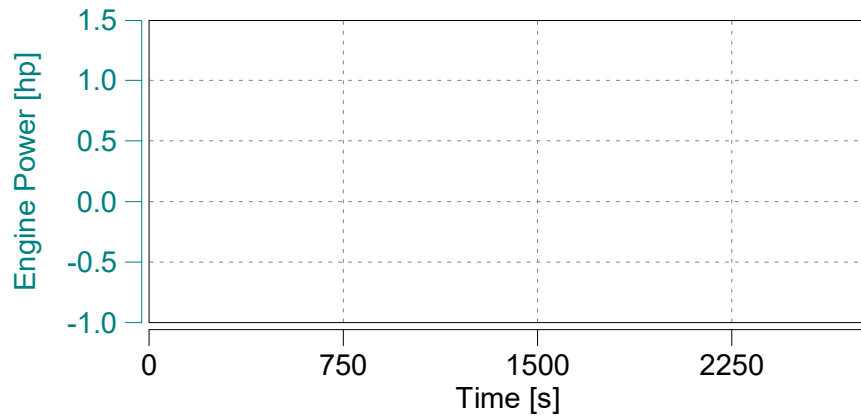
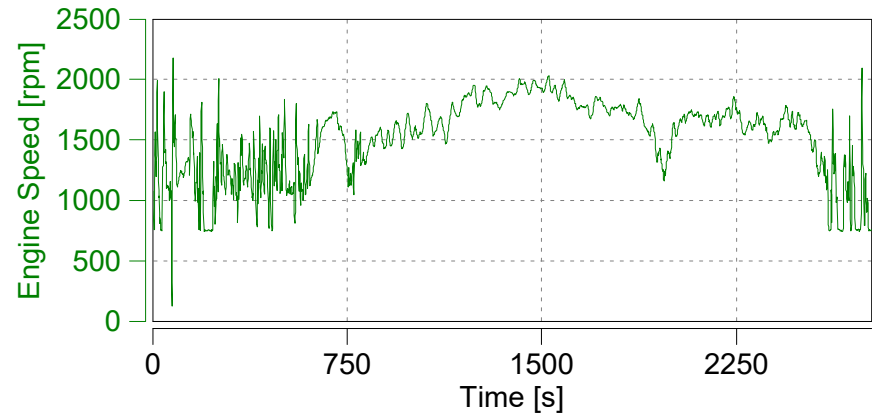
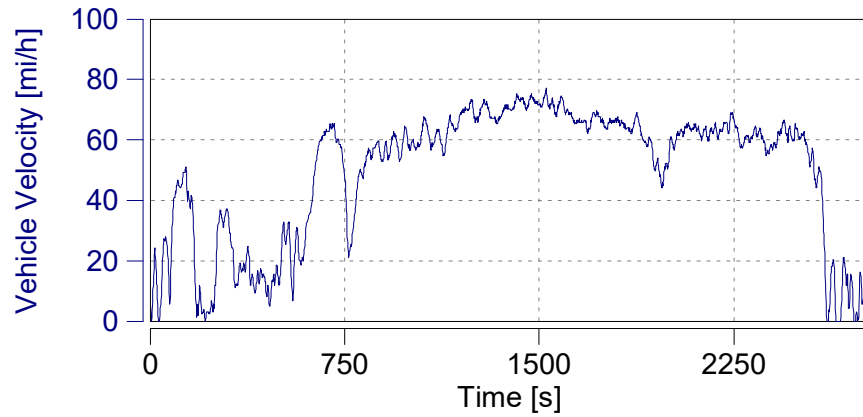


Concerto M.O.V.E., 2019



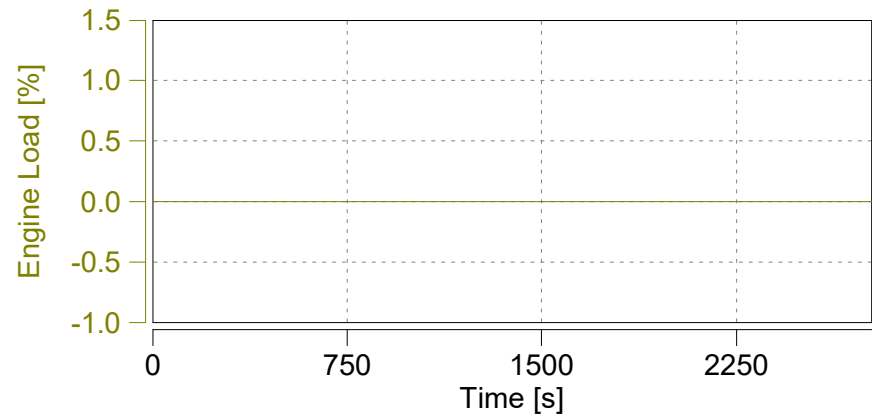
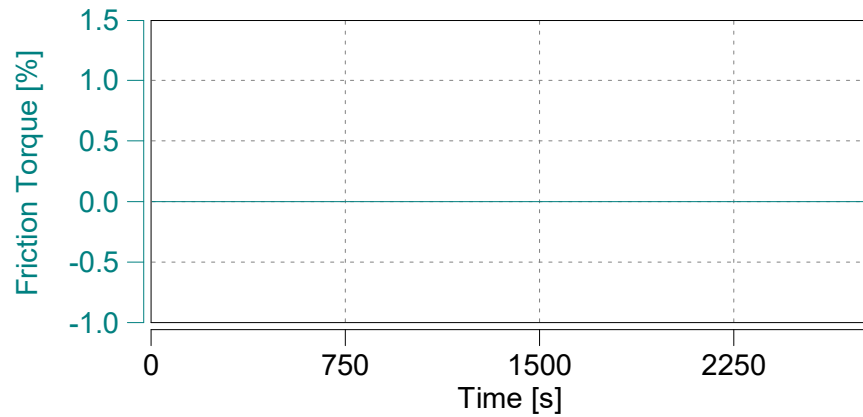
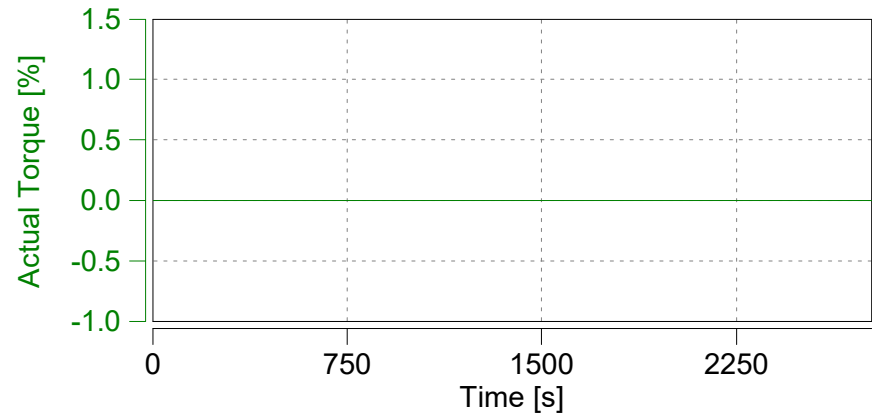
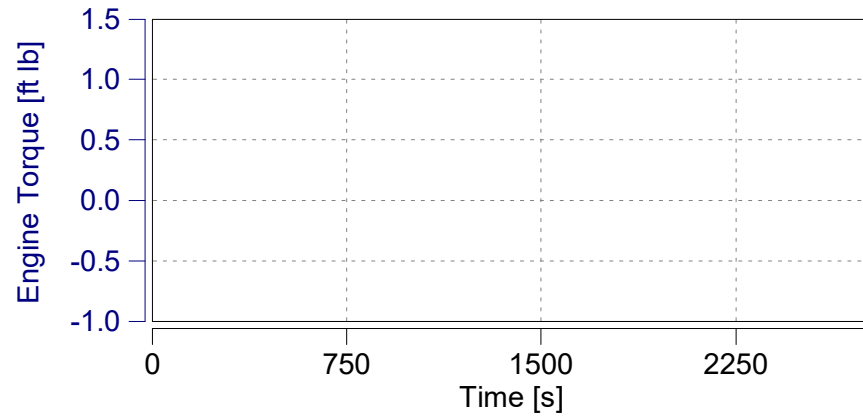
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



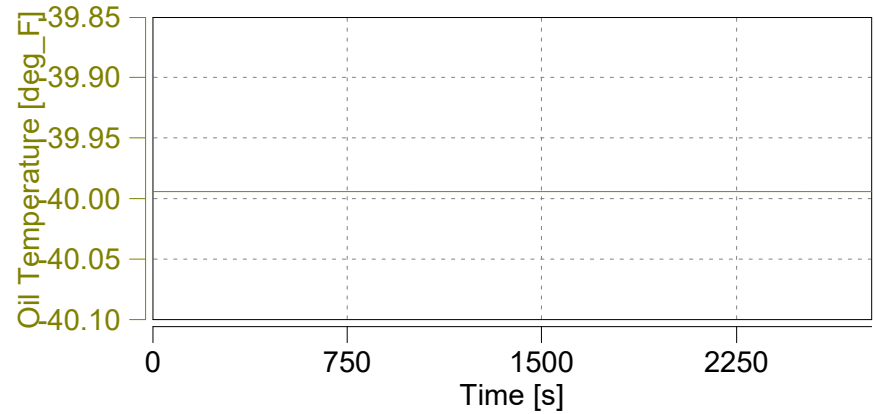
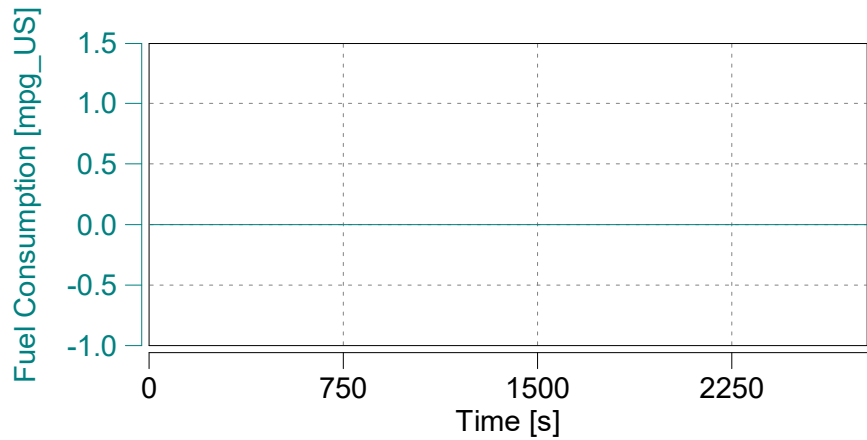
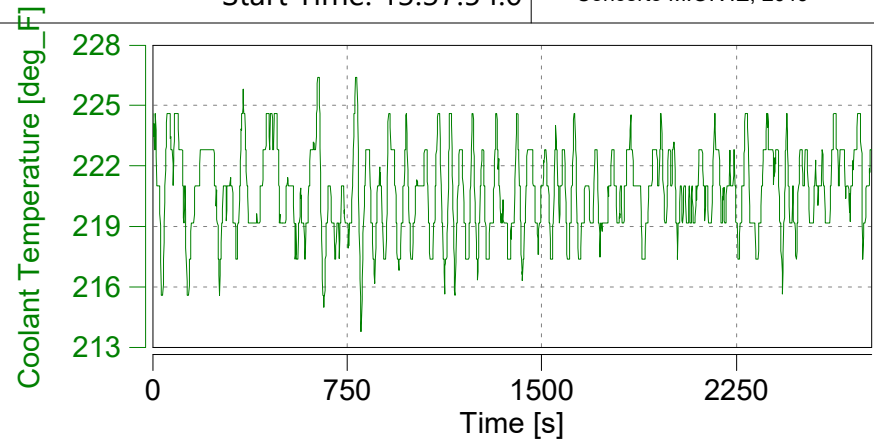
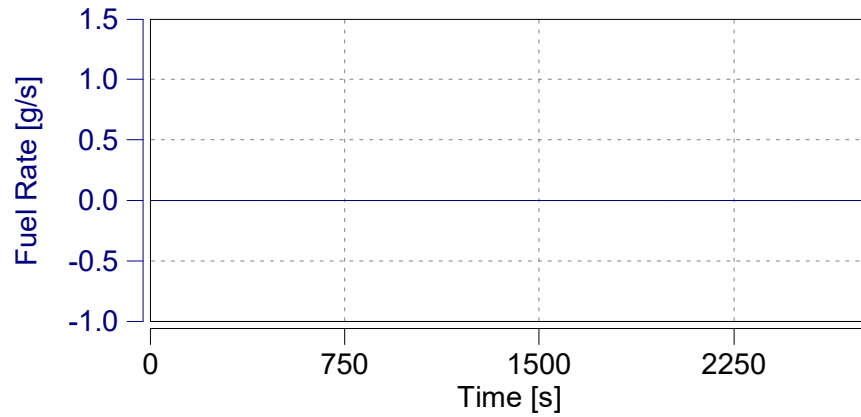
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (1)

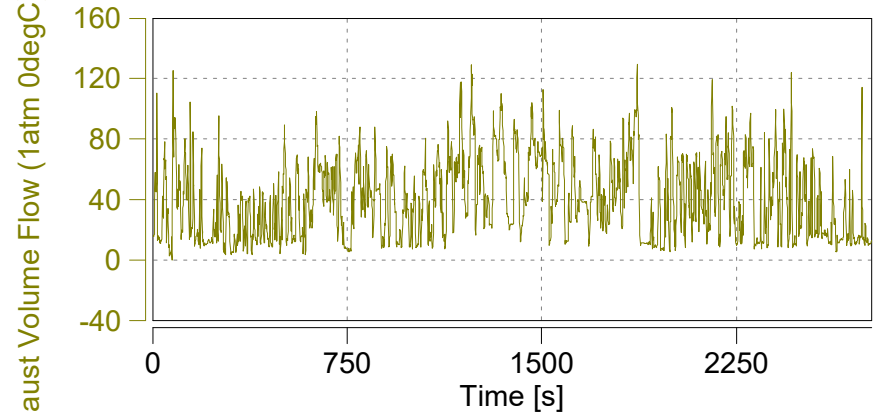
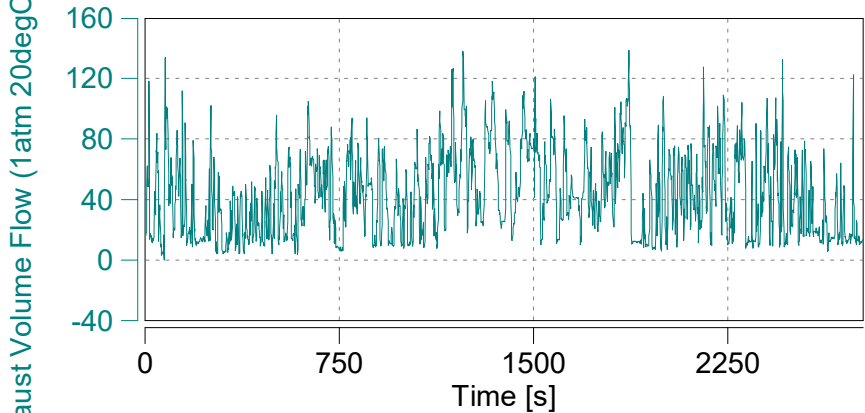
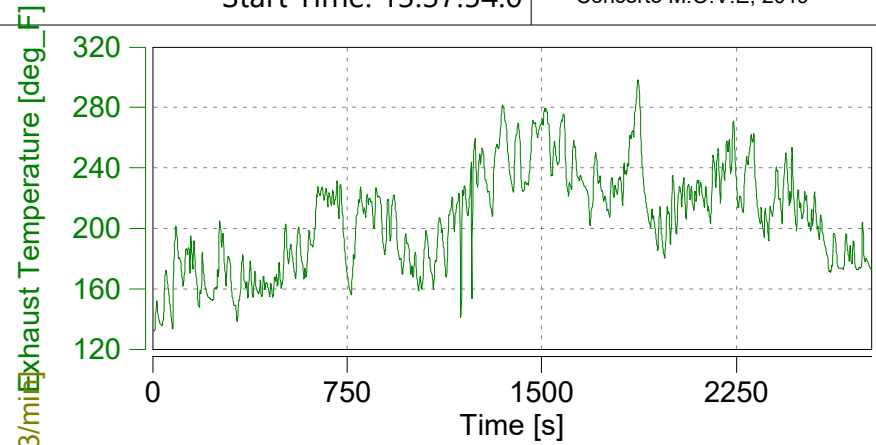
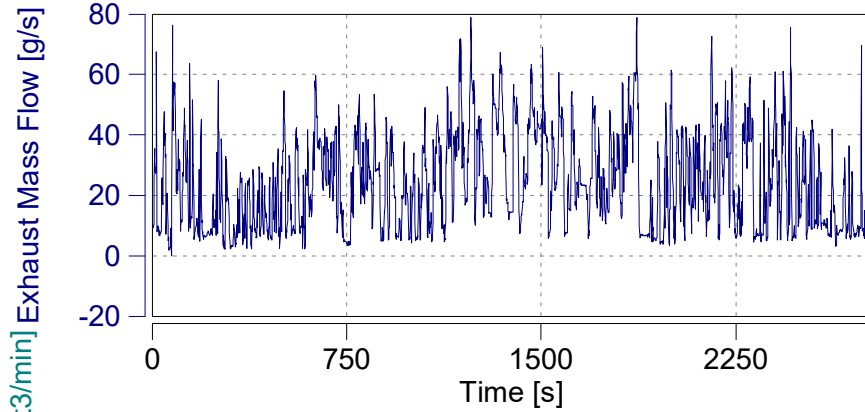
'Highway'

Start Date: 12/06/2019

Start Time: 13:37:54.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Exhaust Flow (2)

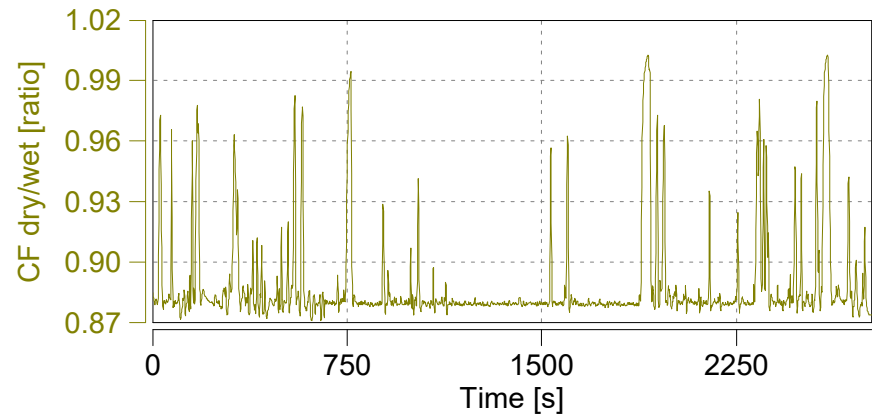
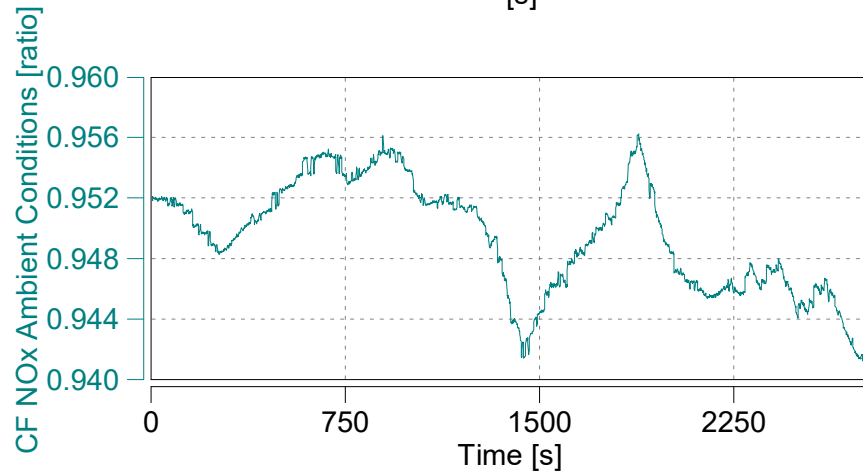
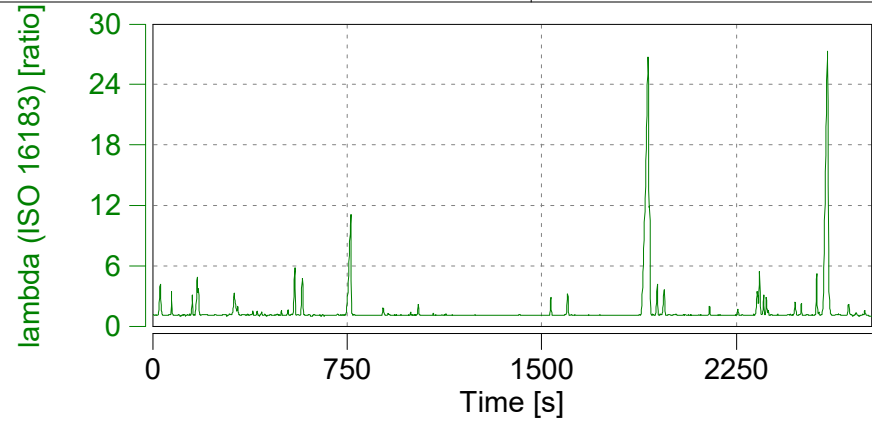
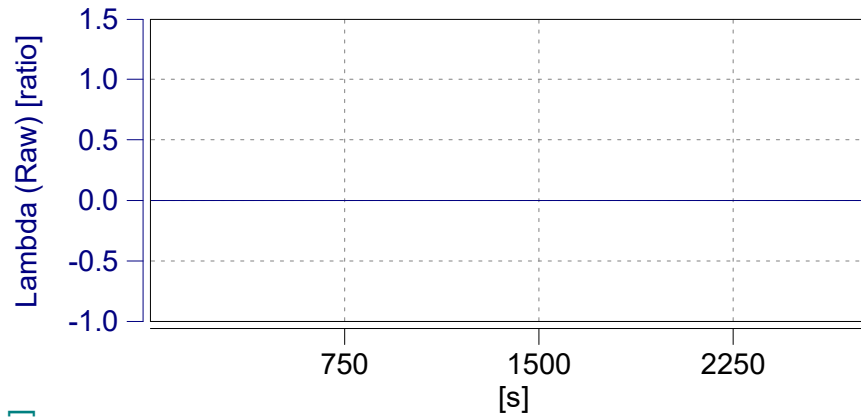
'Highway'

Start Date: 12/06/2019

Start Time: 13:37:54.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1

Legislation:

Vehicle: A8 / 4.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Highway

Page: Corrected Emissions (1)

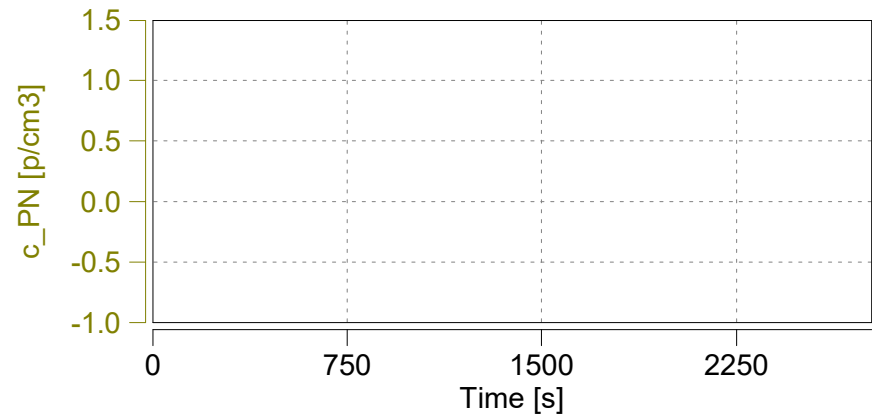
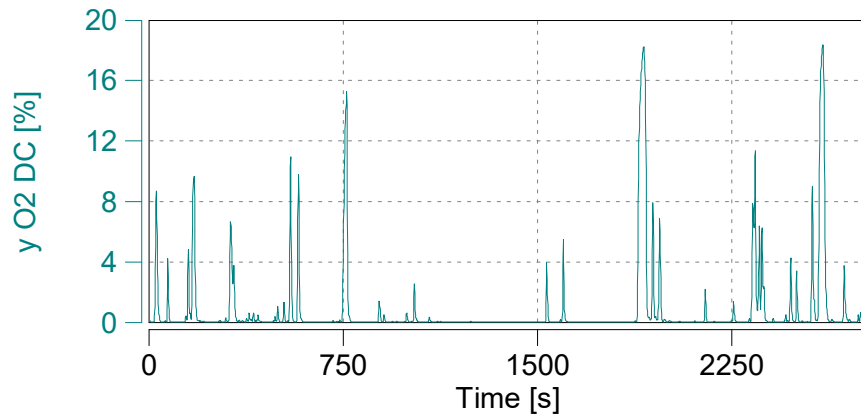
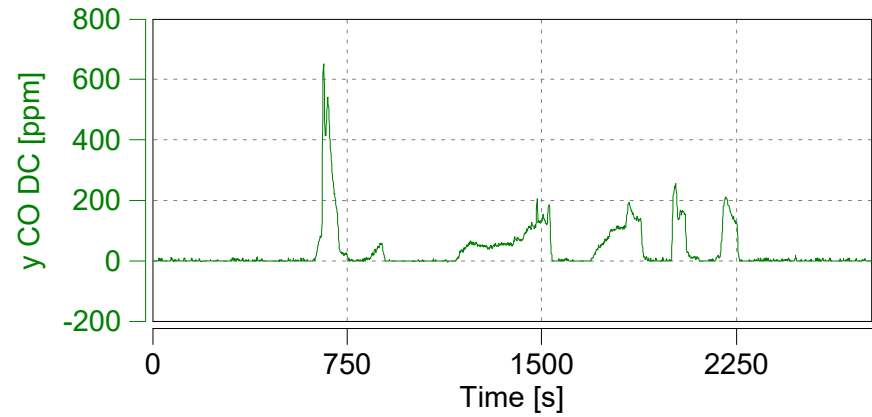
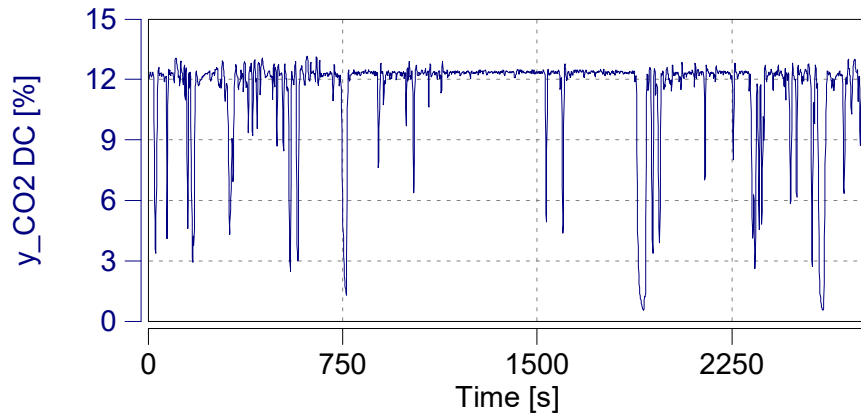
'Highway'

Start Date: 12/06/2019

Start Time: 13:37:54.0

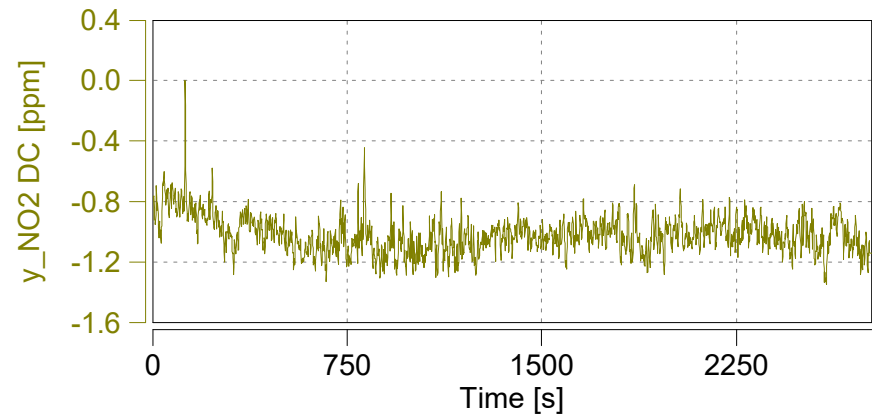
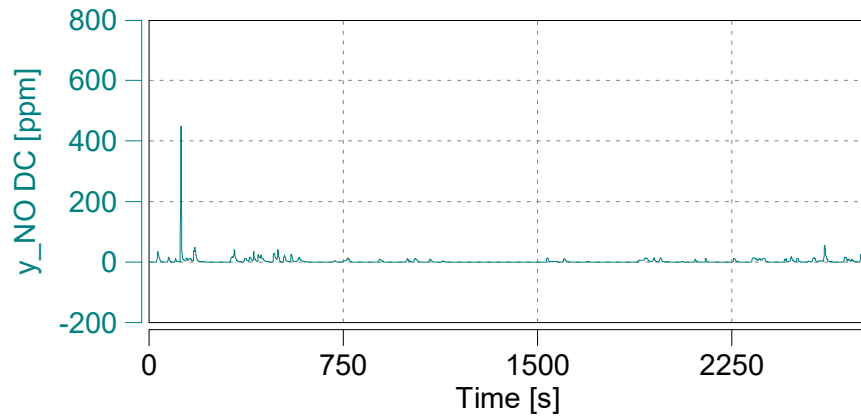
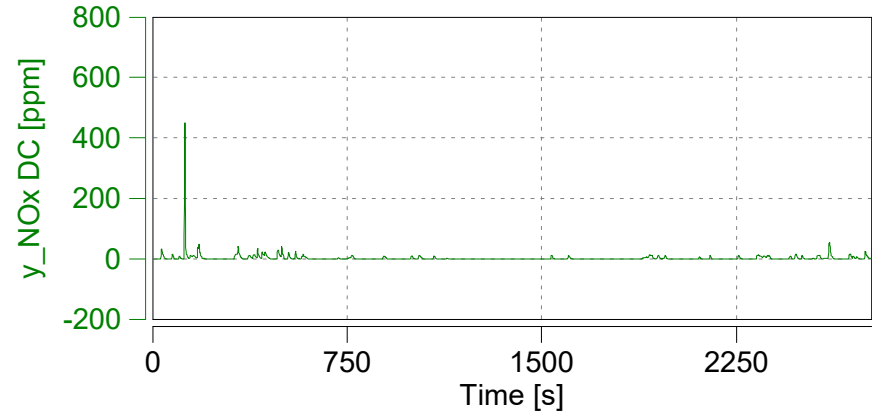
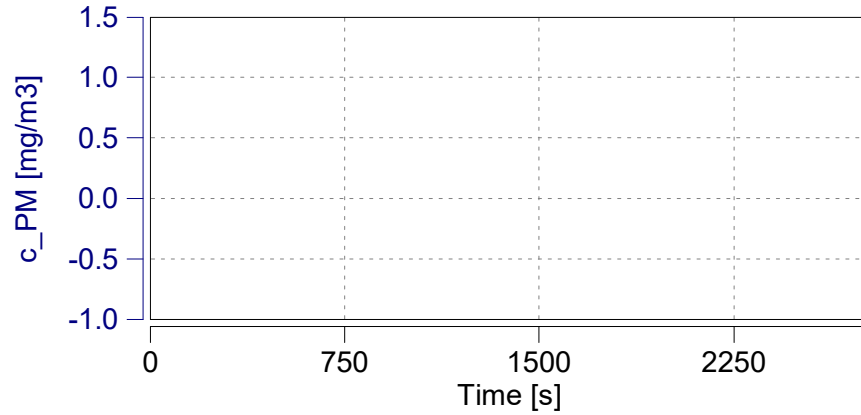


Concerto M.O.V.E., 2019



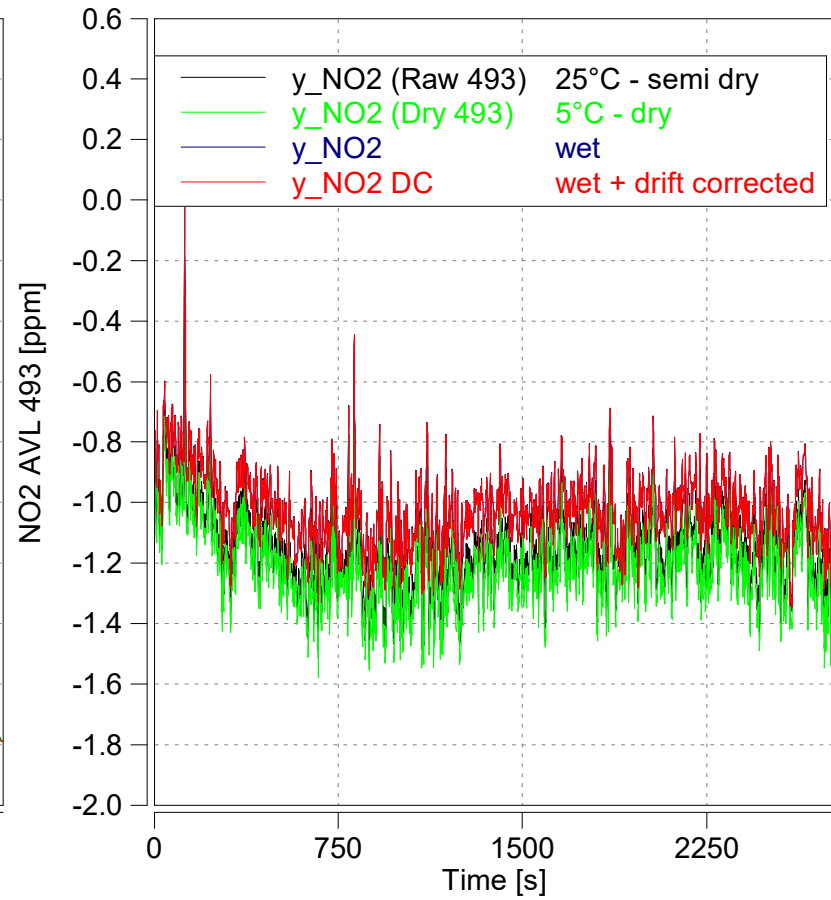
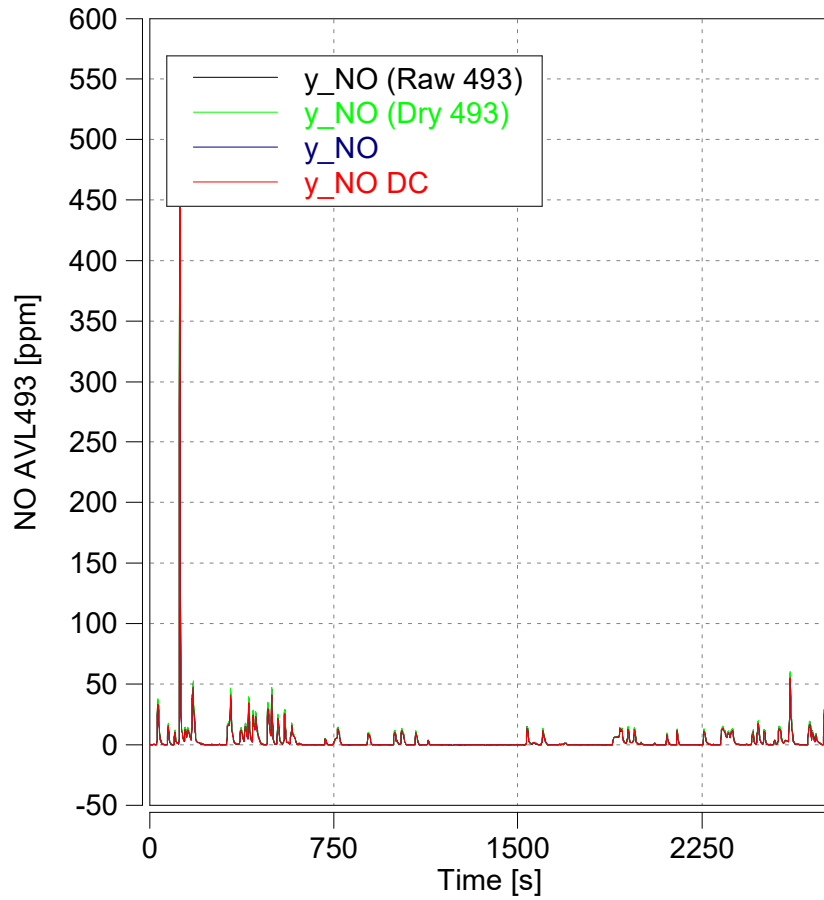
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

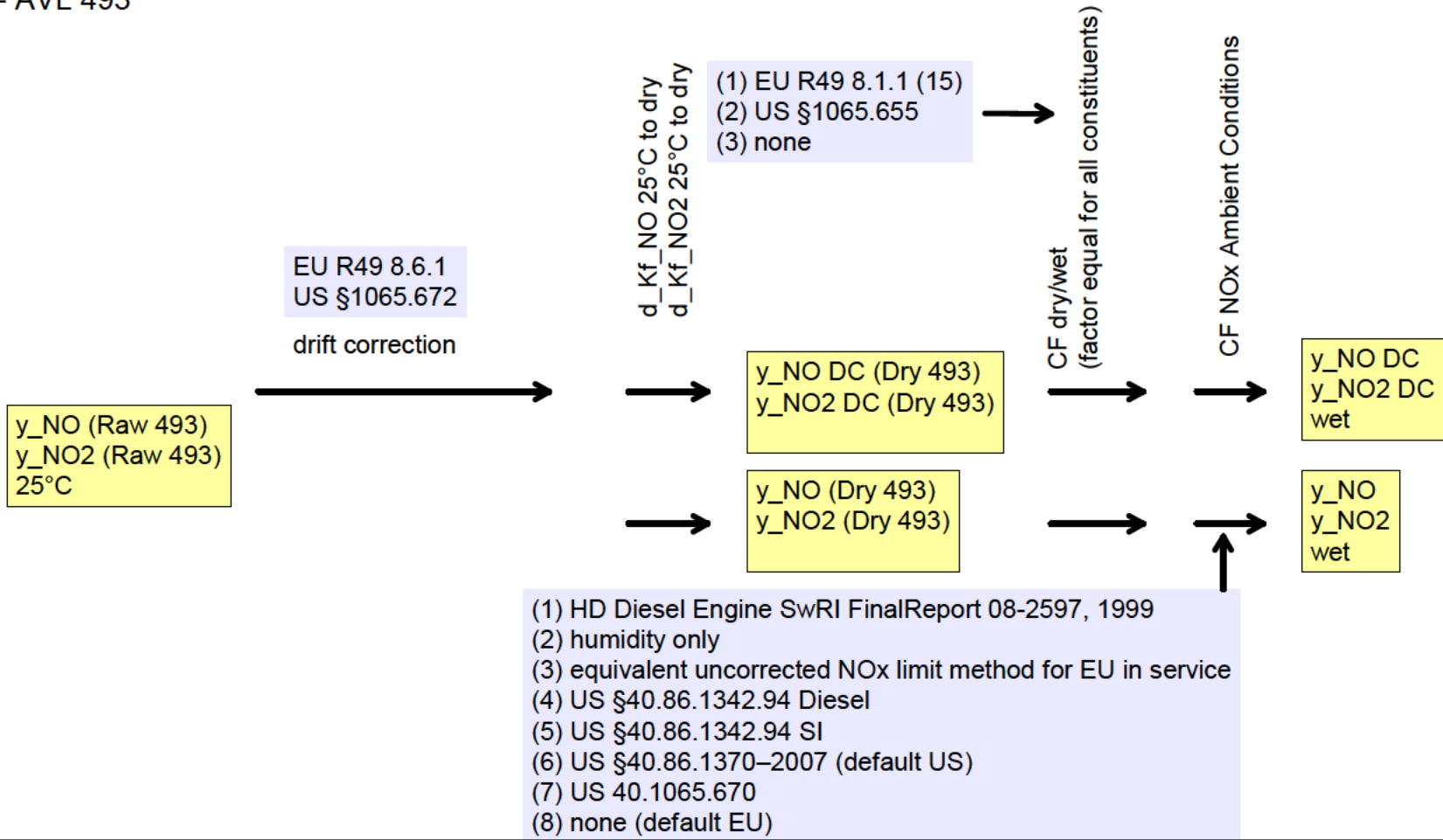


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

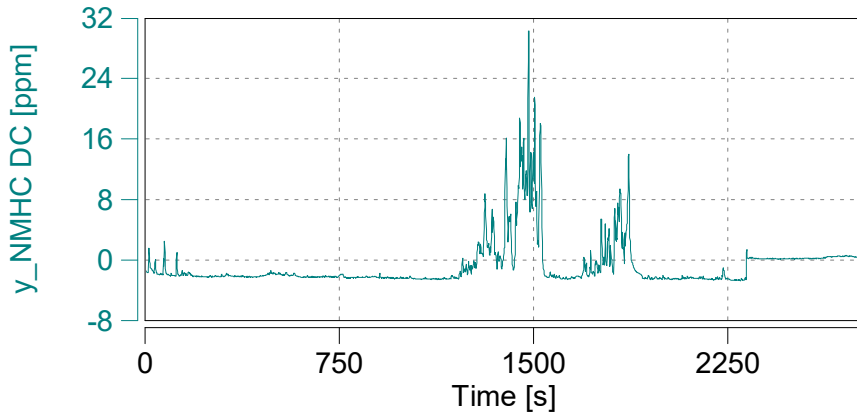
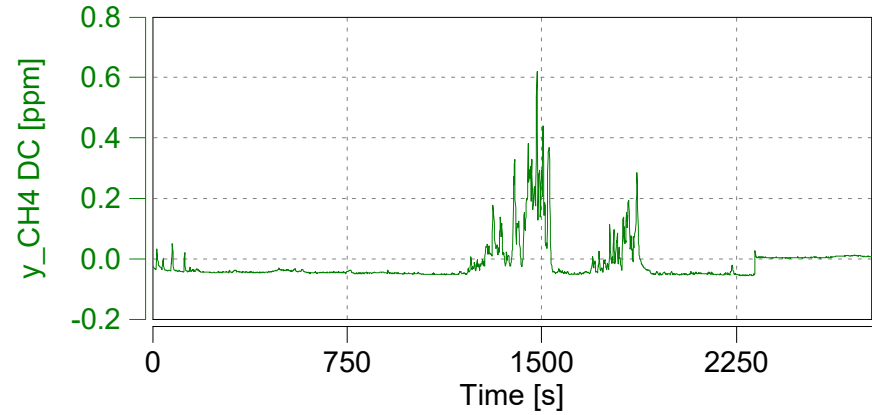
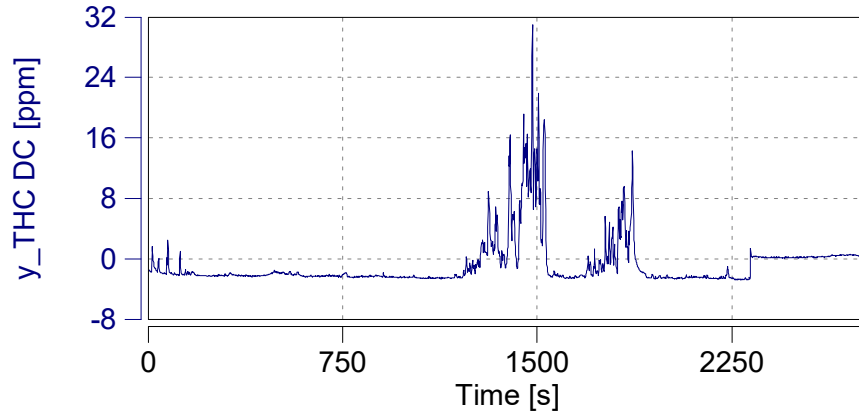
'Highway'

Start Date: 12/06/2019

Start Time: 13:37:54.0



Concerto M.O.V.E., 2019



Concerto Version: 480 Build 316, Serial Number: 1120

M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1

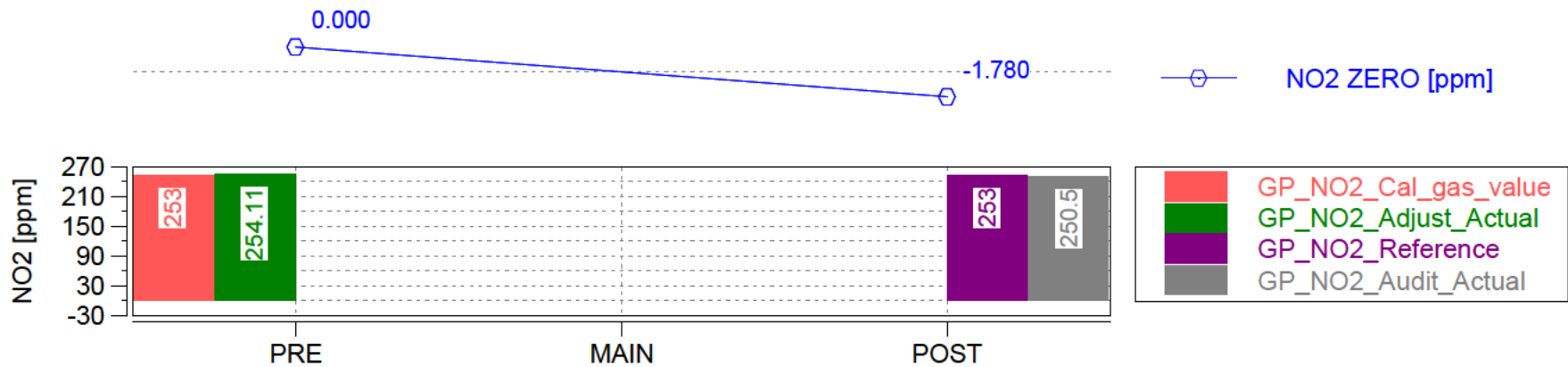
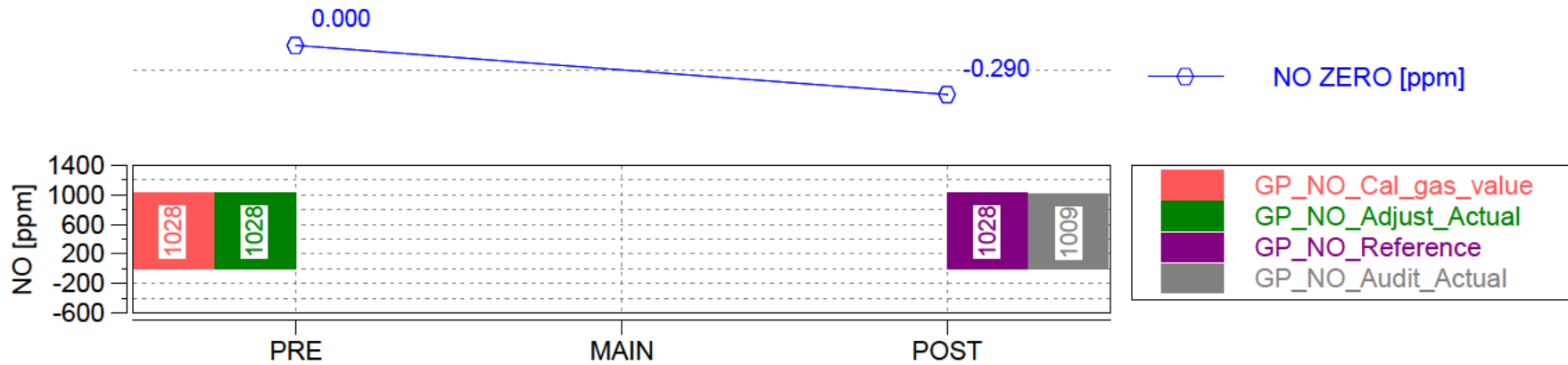
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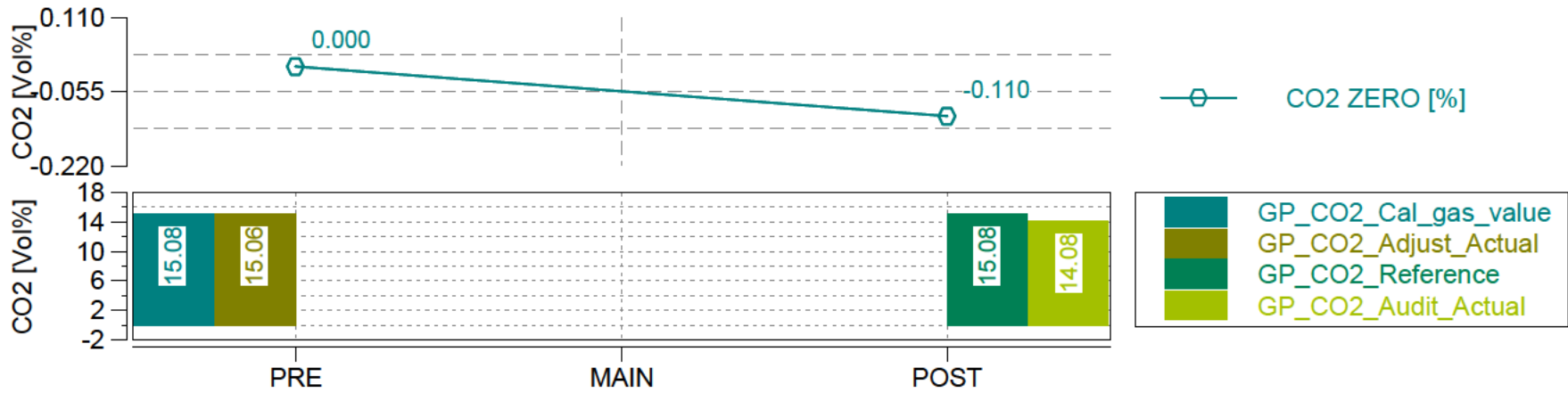
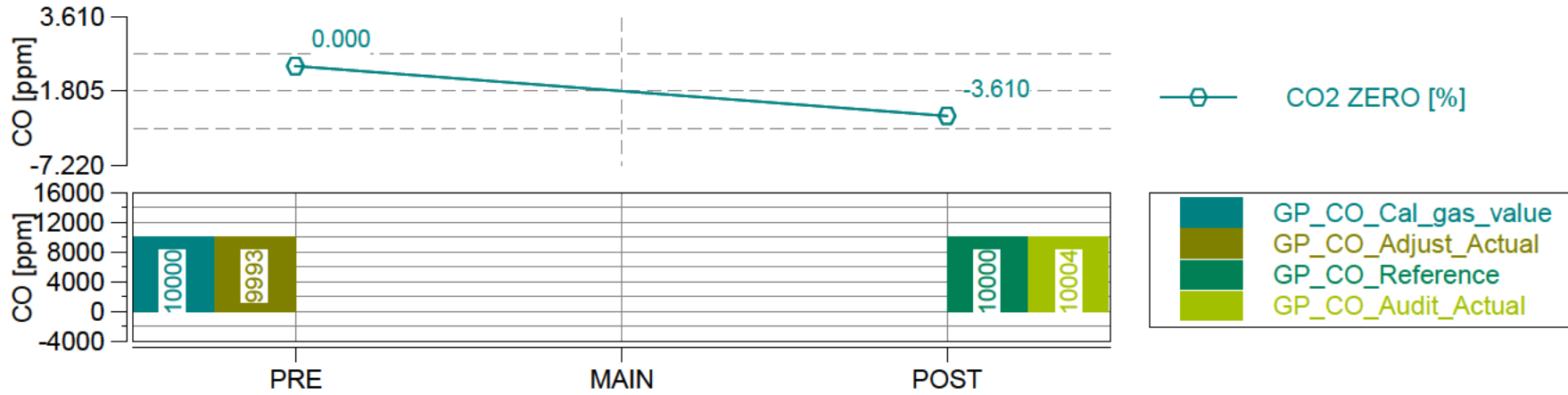
Vehicle: A8 / 4.0 L

Engine: /

NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

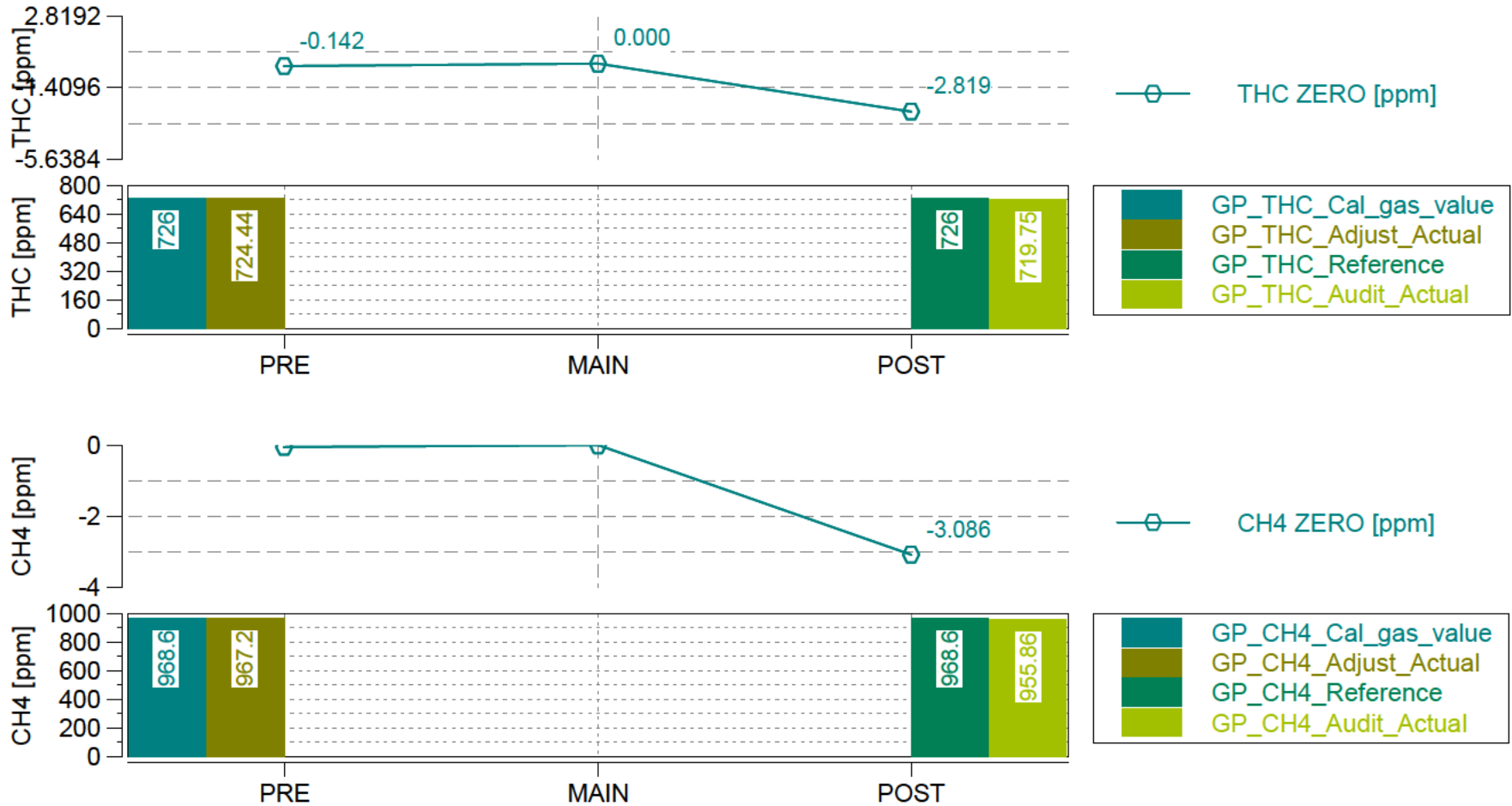
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: Mountain
Page: Trip Summary

'Mountain'
Start Date: 12/06/2019
Start Time: 13:37:54.0



Trip Duration	3608.00	s	ave THC	-1.41530	ppm	BS CO2	n/a	g/hphr
Trip Duration (a)	3608.00	s	ave NMHC	-1.38699	ppm	BS CO	n/a	g/hphr
Trip Distance	28.42	mi	ave CH4	-0.02831	ppm	BS THC	n/a	g/hphr
Trip Distance (a)	28.42	mi	ave CO	41.53848	ppm	BS NMHC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2	9.75096	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx	1.87512	ppm	BS NO (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.18	kg	ave PM	n/a	mg/m3	BS NO2	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.18	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	ave PN	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy EU (ac)	19.22	mpg_US	tot THC	-0.02487	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	19.26	mpg_US	tot NMHC	-0.02300	g	BS PN	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4	-0.00055	g	DS CO2	431.81797	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO	4.81628	g	DS CO	0.16950	g/mi
Trip Fuel Economy EU GGE (ac)	19.22	mpg_US	tot CO2	12270.23522	g	DS THC	-0.00088	g/mi
Trip Fuel Economy US GGE (ac)	19.26	mpg_US	tot NO (d)	0.20453	g	DS NMHC	-0.00081	g/mi
Trip Av. Eng. Speed	1359.77	rpm	tot NO2	-0.10200	g	DS CH4	-0.00002	g/mi
Trip Av. Torque	n/a	lbft	tot NOx	0.10253	g	DS NO (d)	0.00720	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2	-0.00359	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx	0.00361	g/mi
Trip Work (a)	n/a	hphr	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Exhaust Mass	74.13	kg	tot PN	n/a	#	DS Soot meas	n/a	g/mi
Trip Exhaust Mass EU (ac)	n/a	kg	PM measurement type	0.00000	-	DS PM	n/a	g/mi
Trip Exhaust Mass US (ac)	n/a	kg	tot Soot on PM filter (estim.)	0.00000	mg	DS PN	n/a	#/mi
Trip Av. Amb. Temperature	54.93	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2	n/a	g/kg
Trip Av. Humidity	88.58	%	Trip Av. Veh. Speed	28.35315	mi/hr	FS CO	n/a	g/kg
Trip Av. GPS Altitude	279.96	m	Trip Velocity Zero	11.75166	%	FS THC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	20.60302	%	FS NMHC	n/a	g/kg
			Trip Velocity Rural	12.59422	%	FS CH4	n/a	g/kg
			Trip Velocity Motorway	66.80276	%	FS NO (d)	n/a	g/kg
						FS NO2	n/a	g/kg
						FS NOx	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
(d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

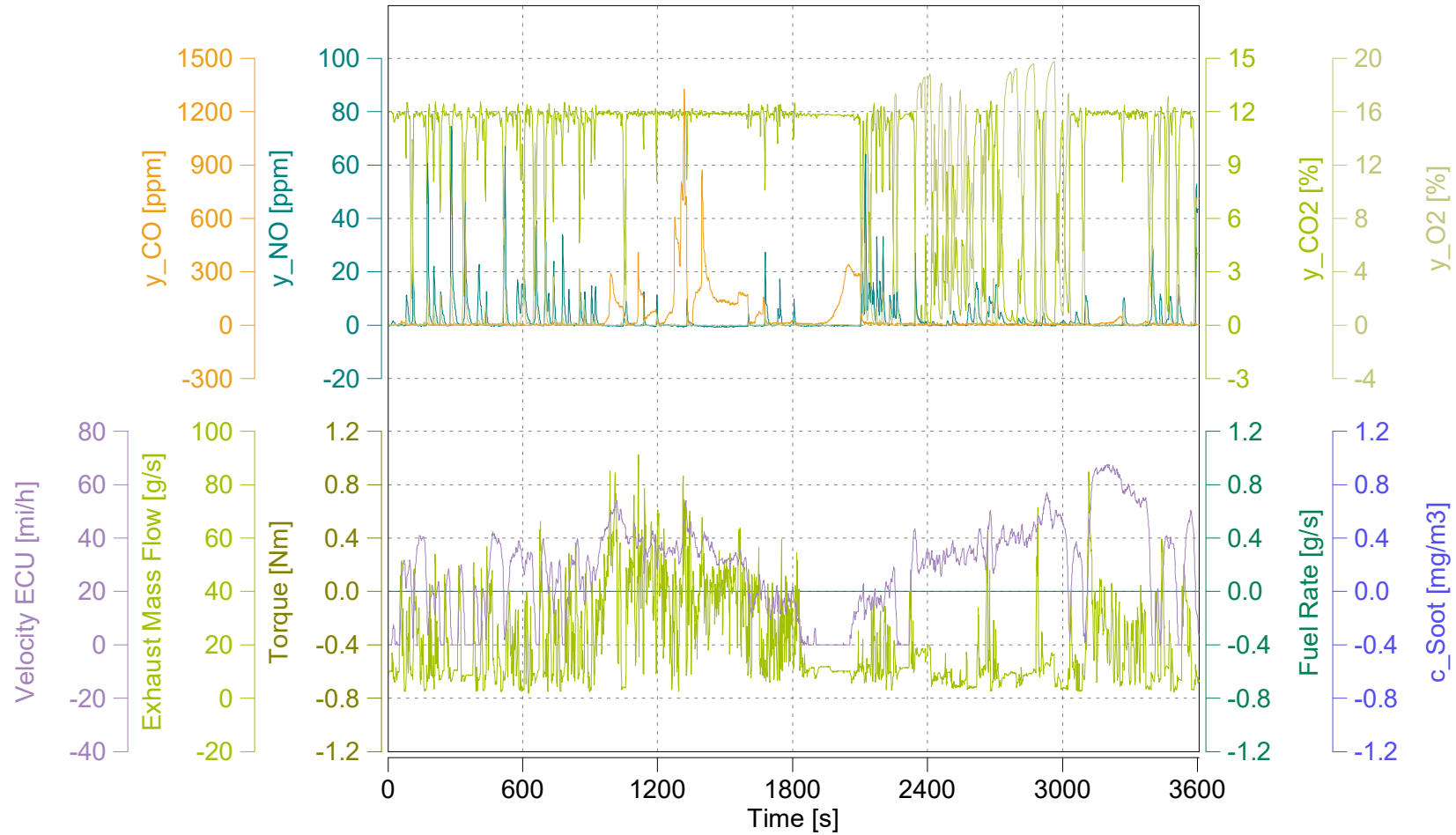


Trip Duration	3608.00	s	ave THC DC	-1.35155	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3608.00	s	ave NMHC DC	-1.32452	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.42	mi	ave CH4 DC	-0.02703	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.42	mi	ave CO DC	41.54309	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	10.09228	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	1.89679	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.18	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.18	kg	ave Soot	n/a	mg/m3	BS Soot	n/a	g/hphr
			ave PN DC	n/a	#/cm3	BS Soot meas	n/a	g/hphr
Trip Fuel Economy (b)	n/a	mpg_US				BS PM	n/a	g/hphr
Trip Fuel Economy (ab)	n/a	mpg_US	tot THC DC	-0.02236	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy EU (ac)	19.22	mpg_US	tot NMHC DC	-0.02069	g			
Trip Fuel Economy US (ac)	19.26	mpg_US	tot CH4 DC	-0.00050	g	DS CO2 DC	446.93308	g/mi
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CO DC	4.81681	g	DS CO DC	0.16951	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO2 DC	12699.73556	g	DS THC DC	-0.00079	g/mi
Trip Fuel Economy EU GGE (ac)	19.22	mpg_US	tot NO DC (d)	0.20635	g	DS NMHC DC	-0.00073	g/mi
Trip Fuel Economy US GGE (ac)	19.26	mpg_US	tot NO2 DC	-0.10228	g	DS CH4 DC	-0.00002	g/mi
			tot NOx DC	0.10408	g	DS NO DC (d)	0.00726	g/mi
Trip Av. Eng. Speed	1359.77	rpm	tot Soot	n/a	g	DS NO2 DC	-0.00360	g/mi
Trip Av. Torque	n/a	lbft	tot Soot meas	n/a	g	DS NOx DC	0.00366	g/mi
Trip Av. Power	n/a	hp	tot PM	n/a	g	DS Soot	n/a	g/mi
Trip Work			tot PN DC	n/a	#	DS Soot meas	n/a	g/mi
Trip Work (a)	n/a	hphr				DS PM	n/a	g/mi
			PM measurement type	0.00000	-	DS PN DC	n/a	#/mi
Trip Exhaust Mass	74.13	kg	tot Soot on PM filter (estim.)	0.00000	mg			
Trip Exhaust Mass EU (ac)	n/a	kg	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Exhaust Mass US (ac)	n/a	kg				FS CO DC	n/a	g/kg
			Trip Av. Veh. Speed	28.35315	mi/hr	FS THC DC	n/a	g/kg
Trip Av. Amb. Temperature	54.93	deg_F	Trip Velocity Zero	11.75166	%	FS NMHC DC	n/a	g/kg
Trip Av. Humidity	88.58	%	Trip Velocity Urban	20.60302	%	FS CH4 DC	n/a	g/kg
Trip Av. GPS Altitude	279.96	m	Trip Velocity Rural	12.59422	%	FS NO DC (d)	n/a	g/kg
			Trip Velocity Motorway	66.80276	%	FS NO2 DC	n/a	g/kg
Fuel Type	Petrol (E10)					FS NOx DC	n/a	g/kg
						FS Soot	n/a	g/kg
						FS Soot meas	n/a	g/kg
						FS PM	n/a	g/kg
						FS PN DC	n/a	#/kg

(a) GAS PEMS measurement state only, (b) based on fuel rate input (ECU, Fuel Meter), (c) Based on A/F ratio (eq 28-32 - R49)
 (d) NO calculated using molecular weight of NO2, GGE=Gasoline Gallon Equivalents

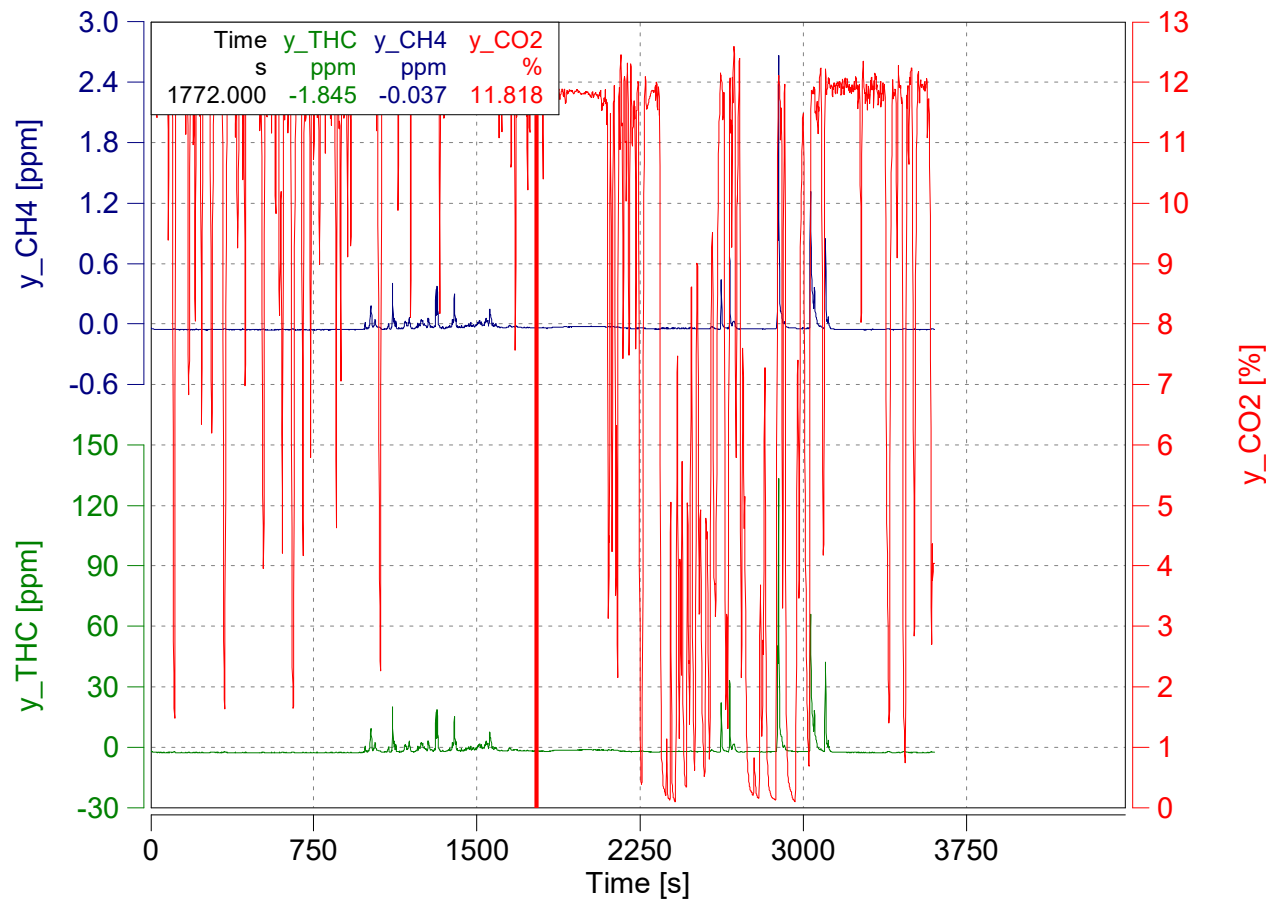
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Absolute Time Shifts

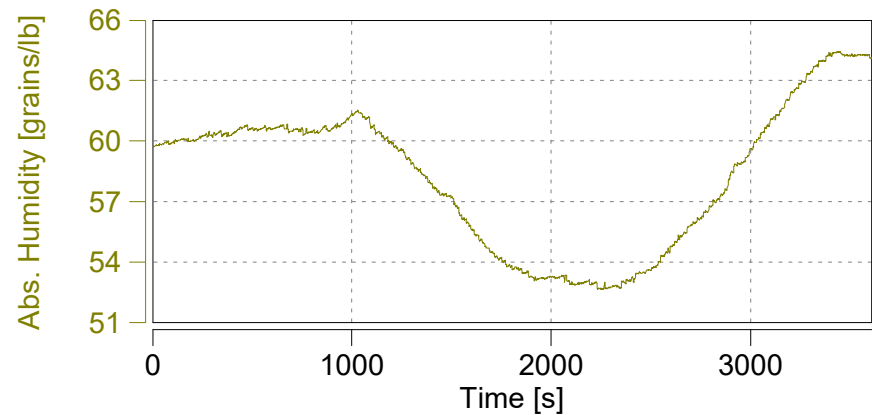
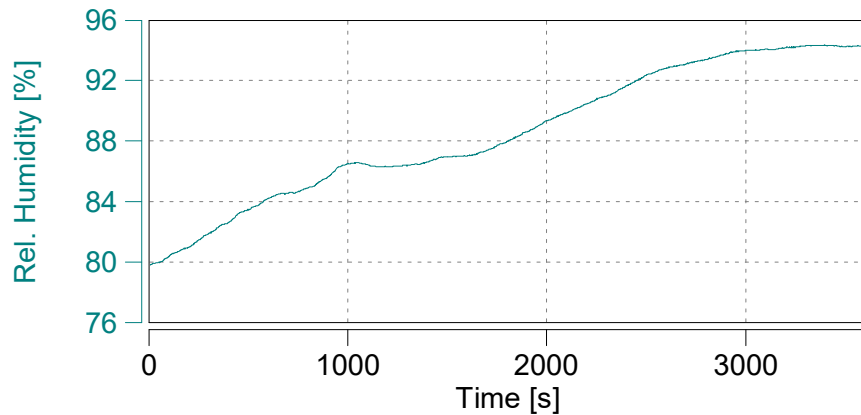
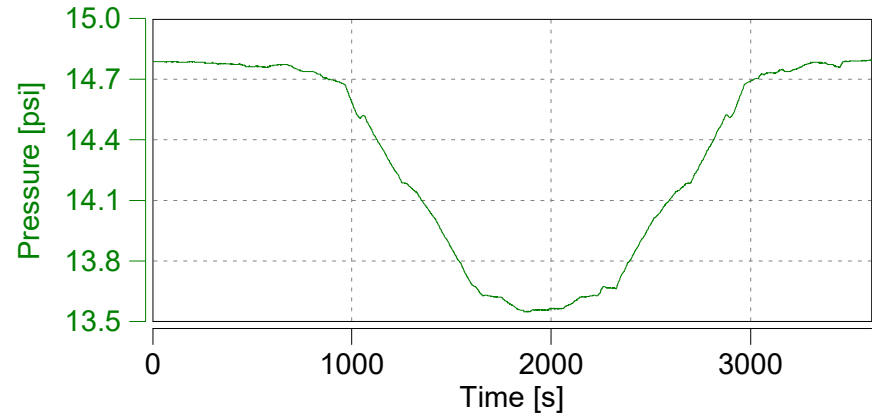
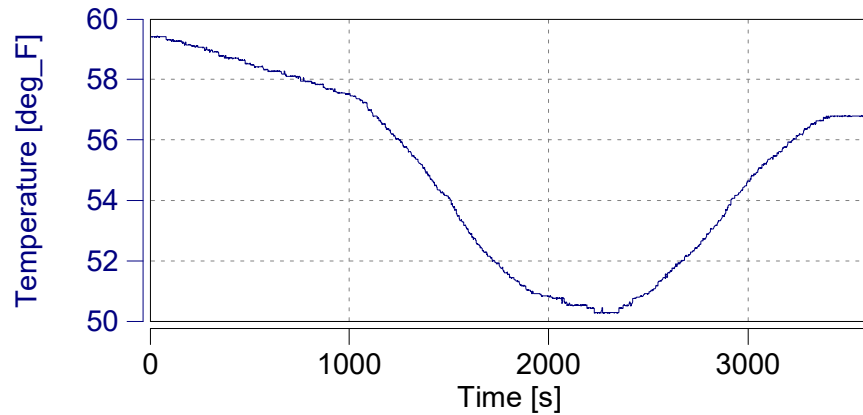
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

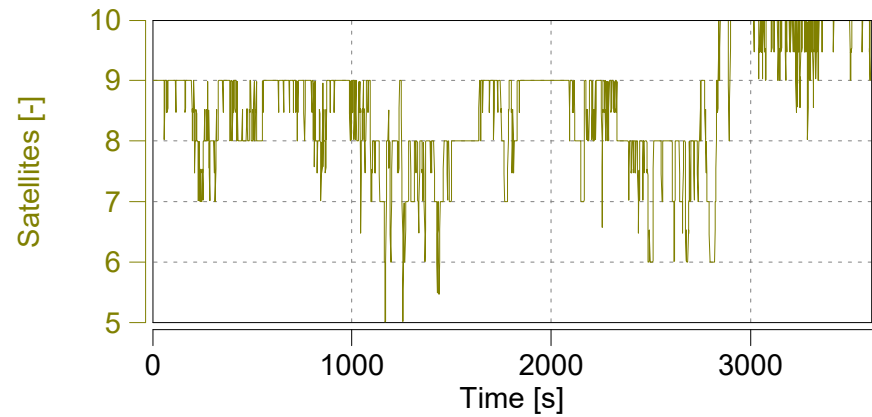
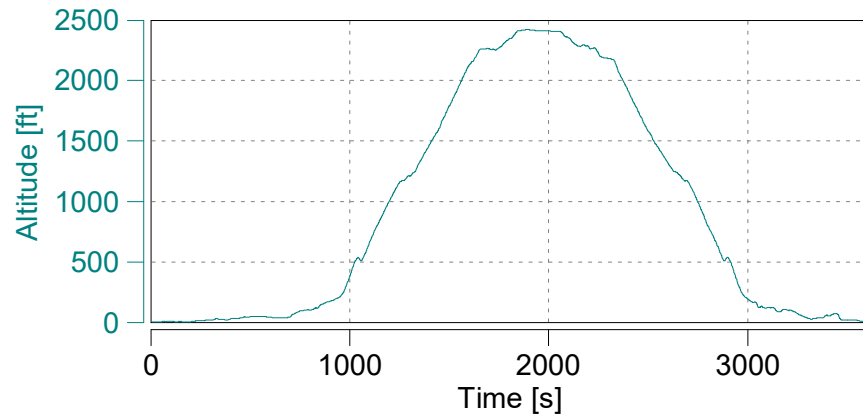
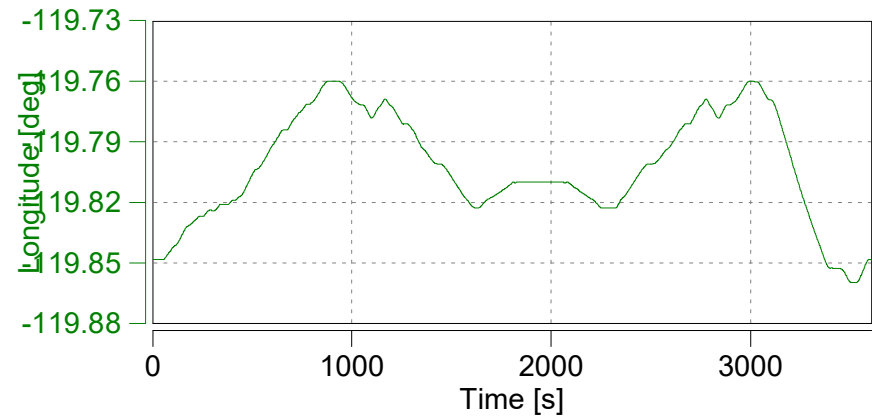
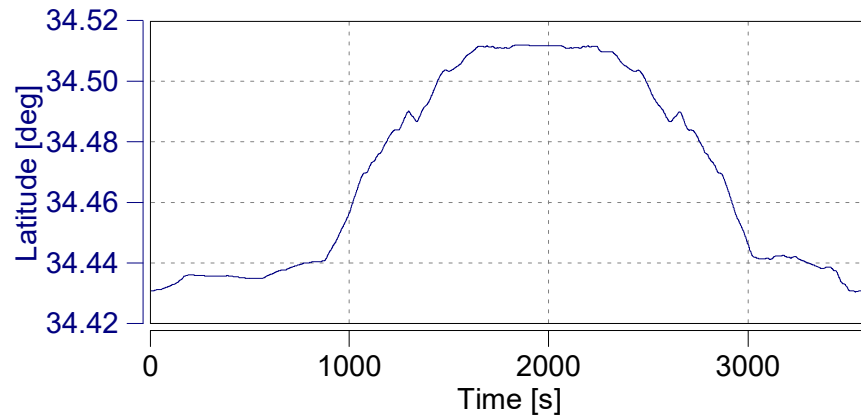
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



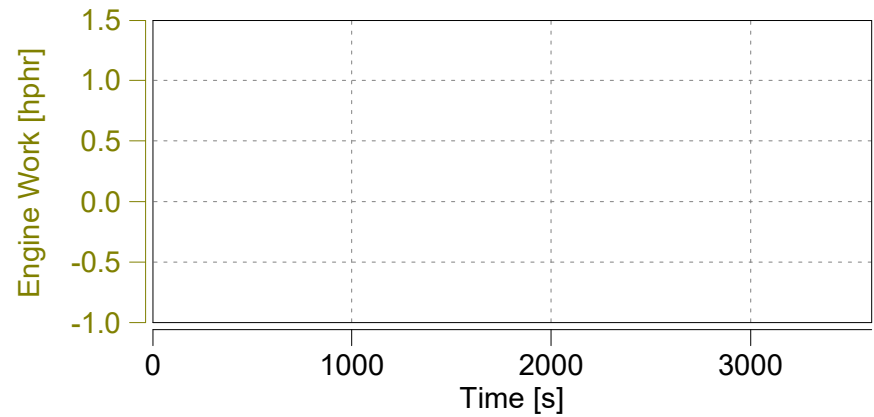
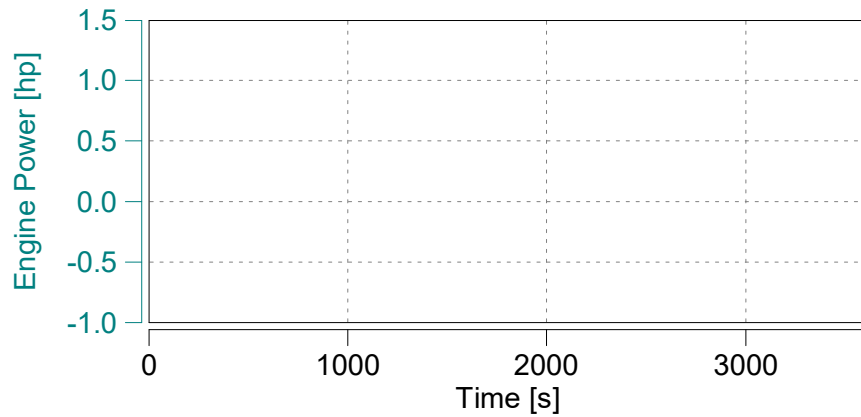
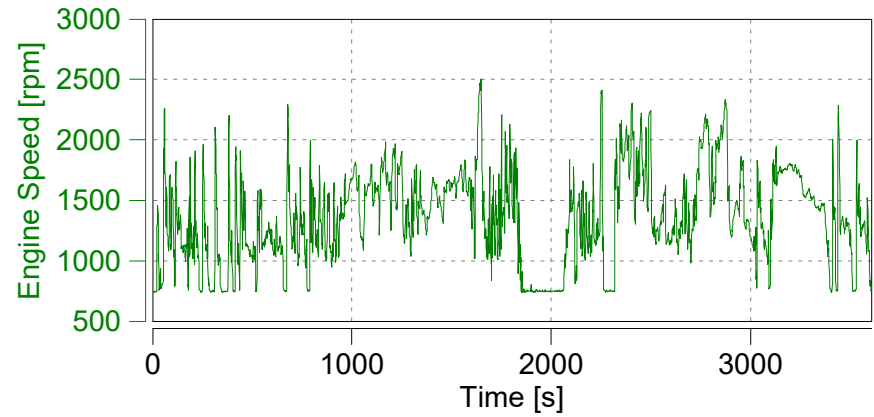
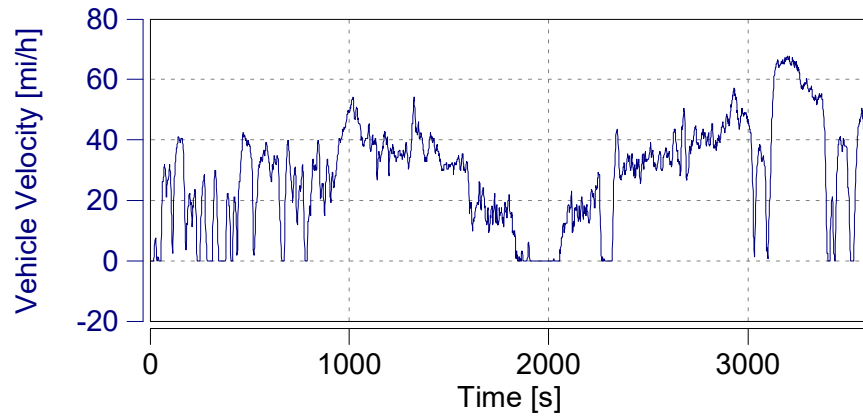
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Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



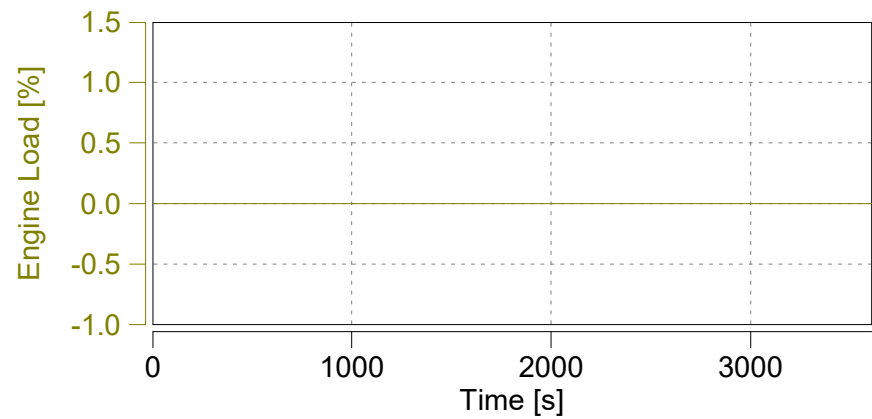
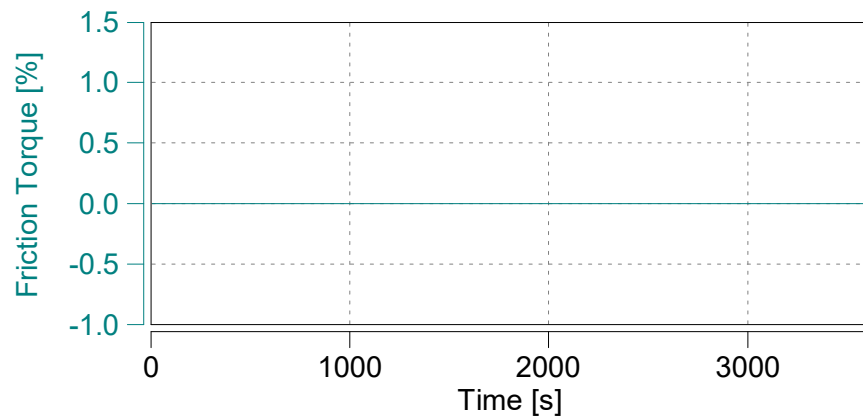
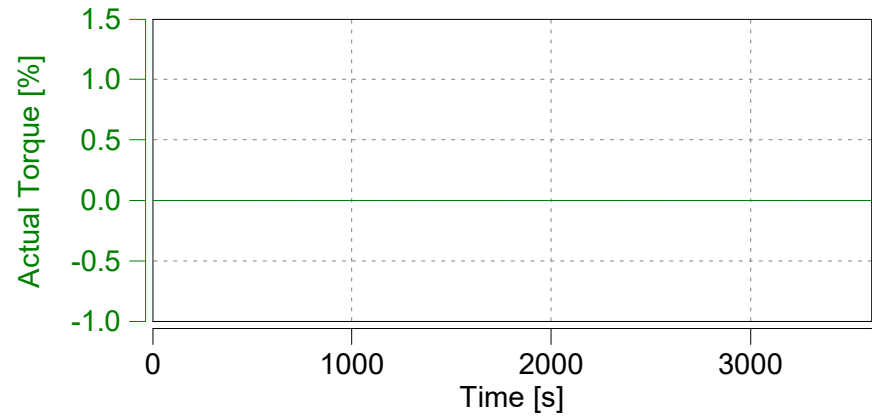
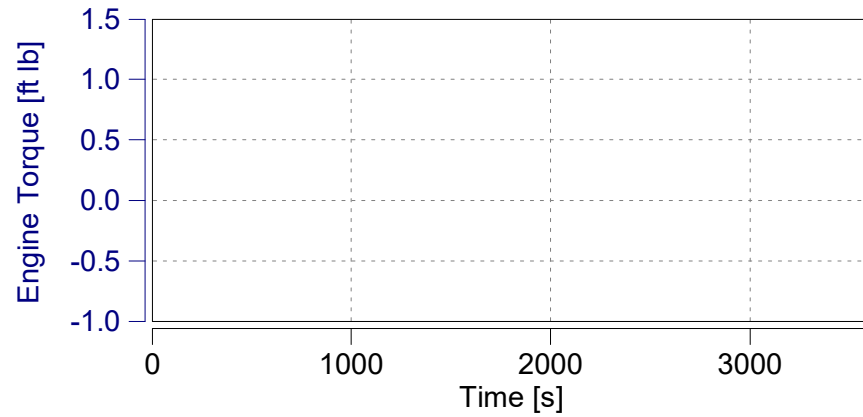
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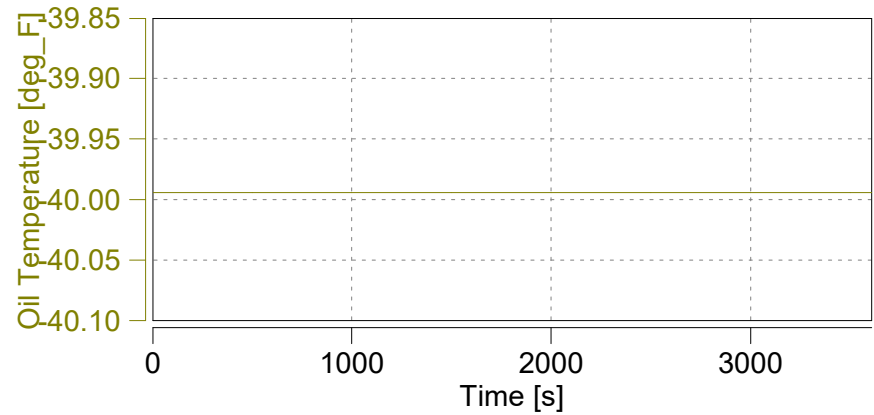
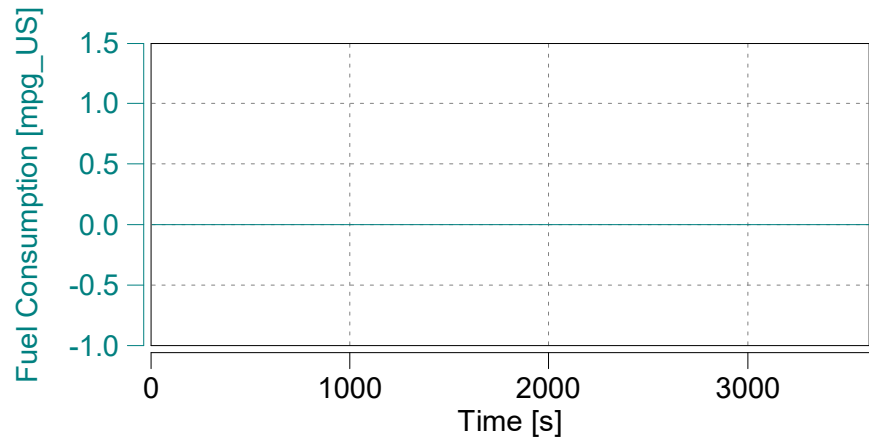
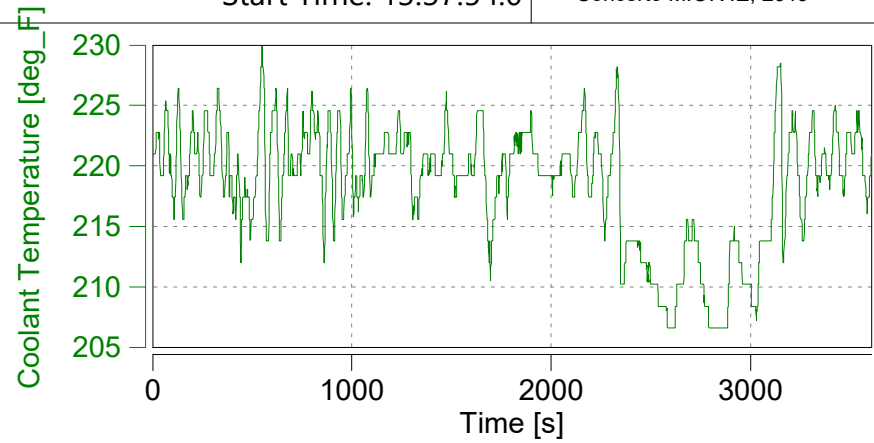
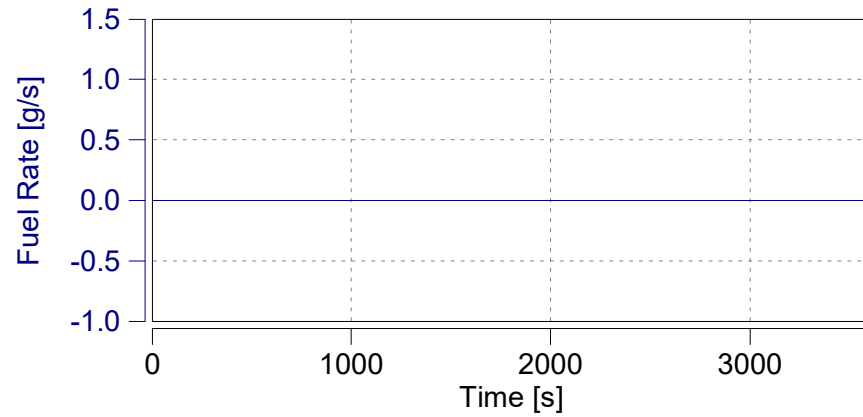
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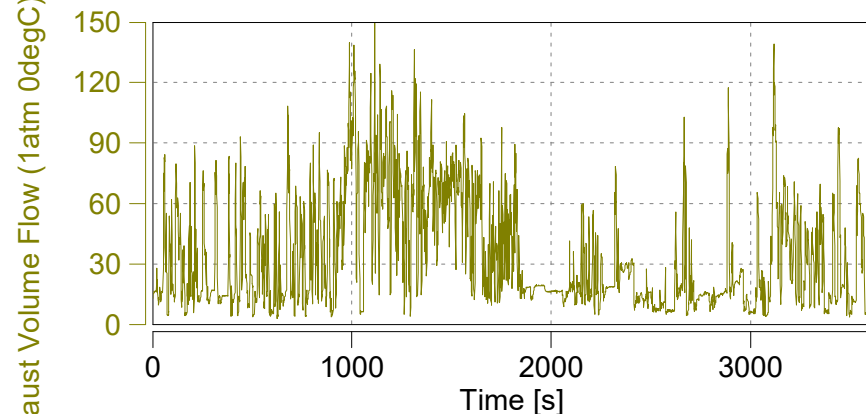
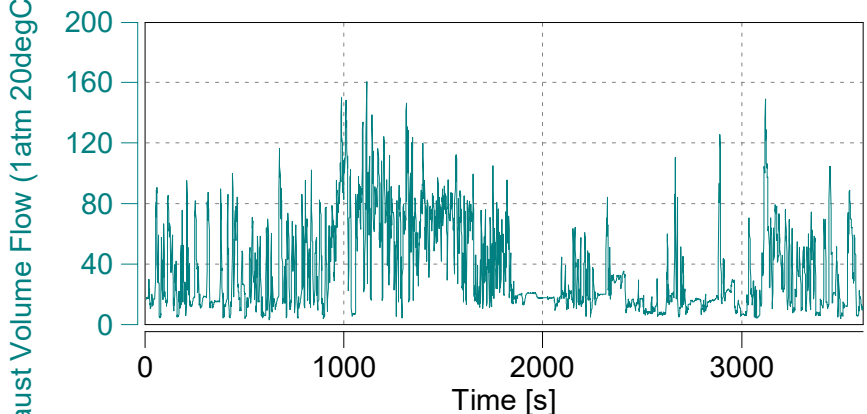
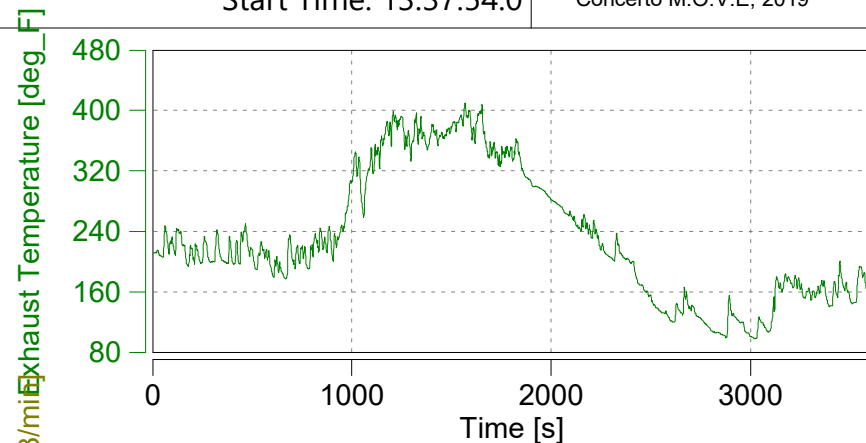
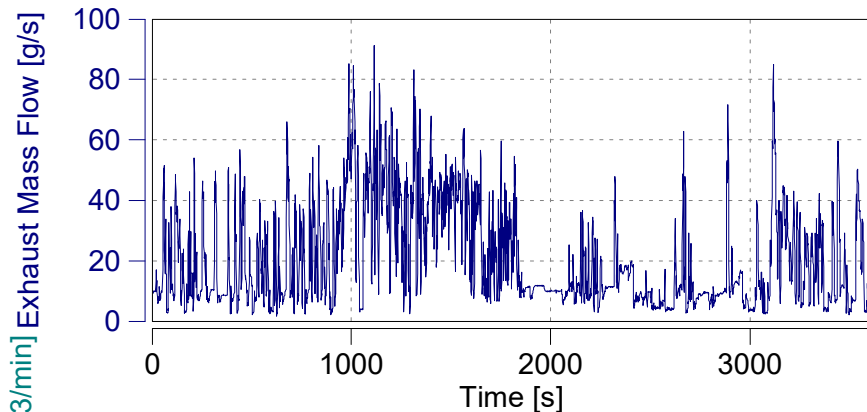
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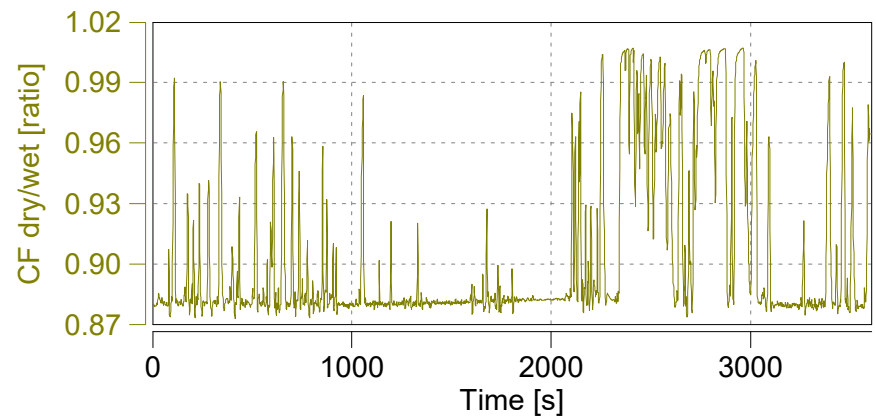
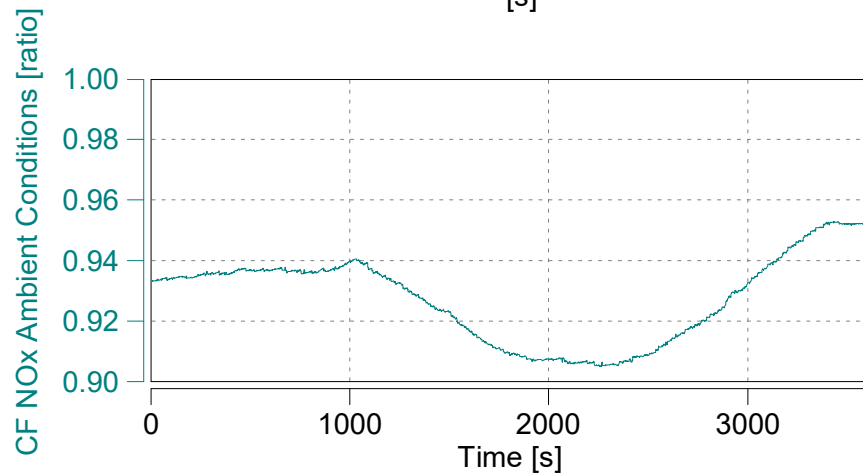
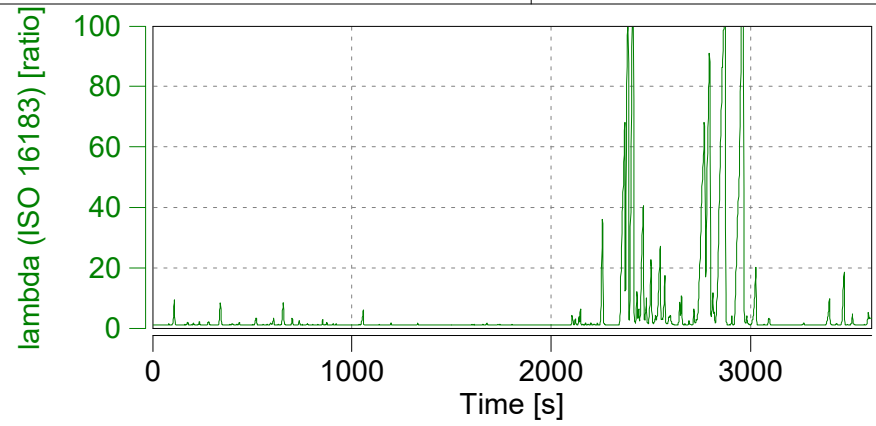
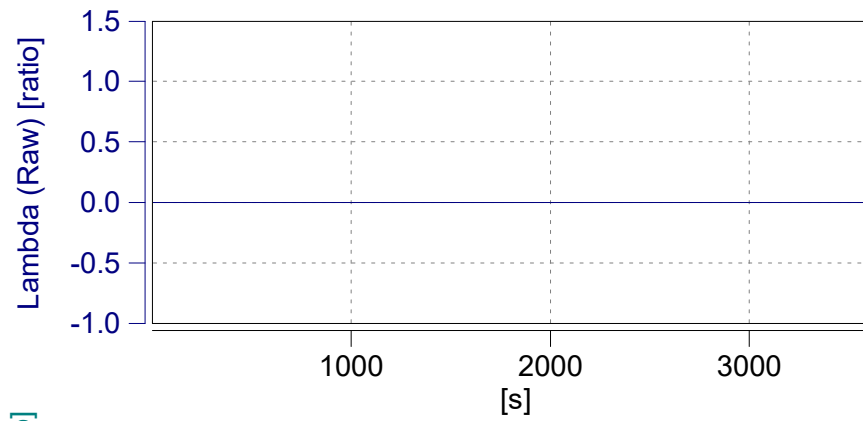
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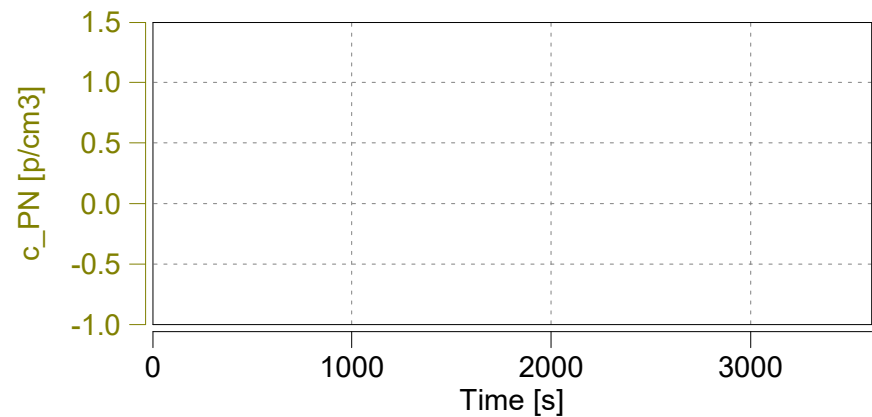
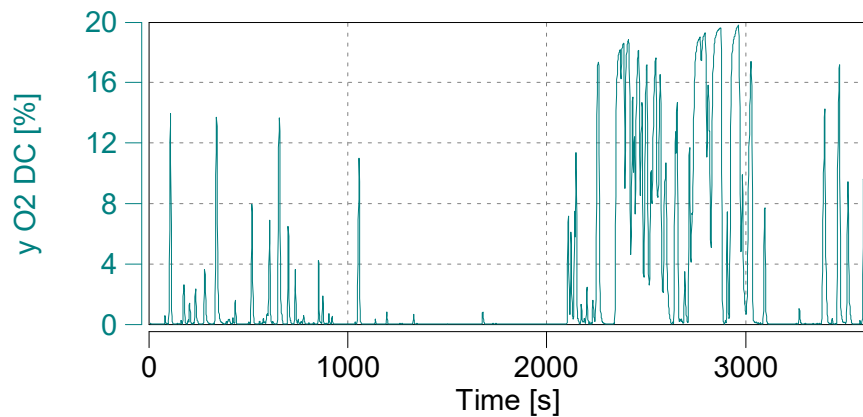
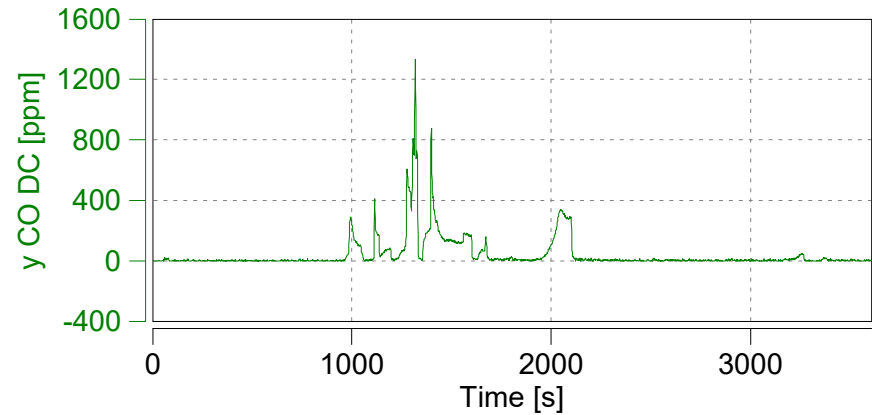
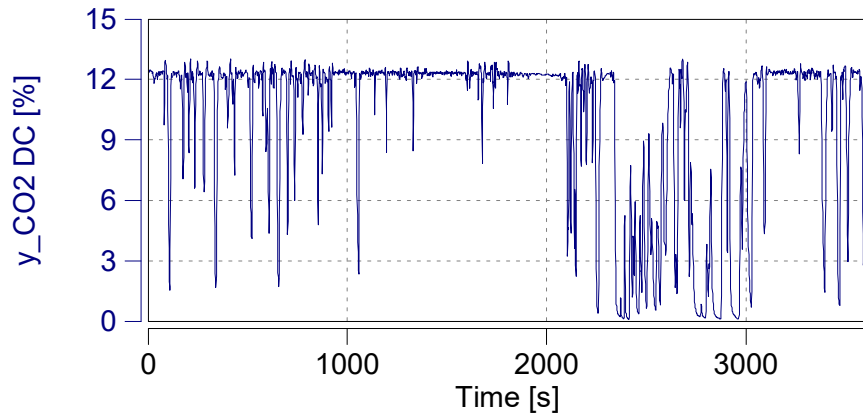
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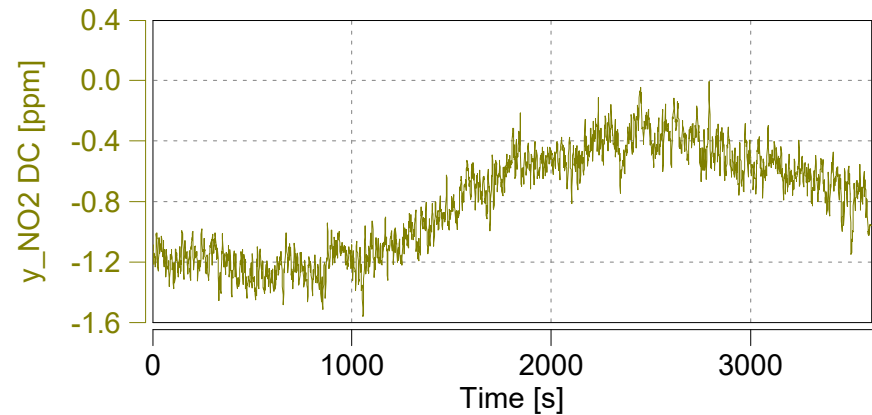
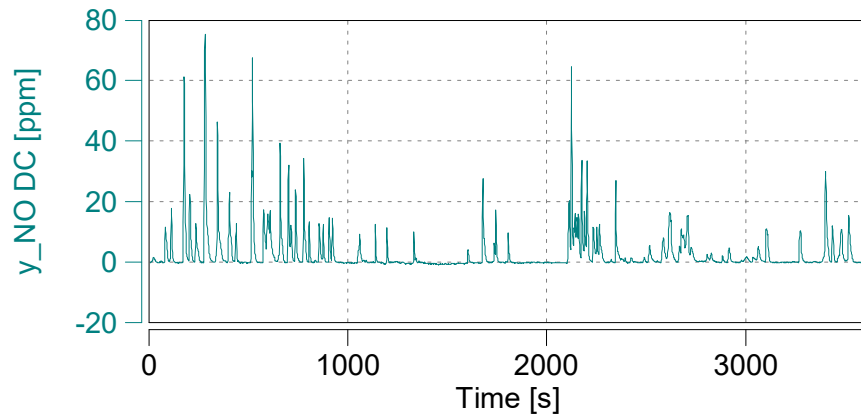
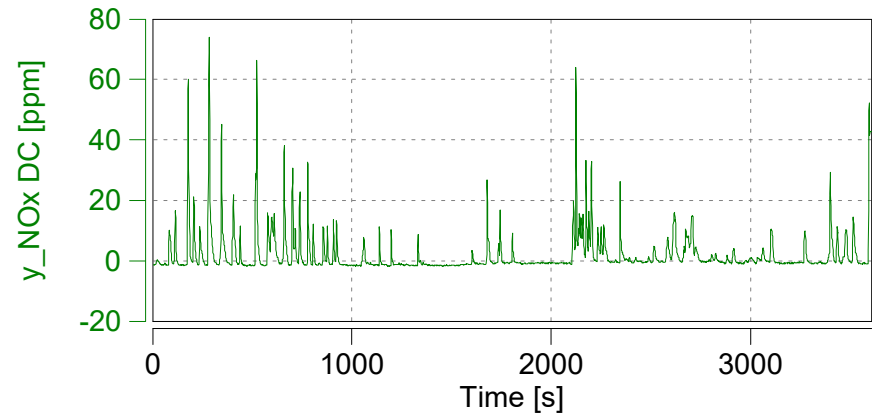
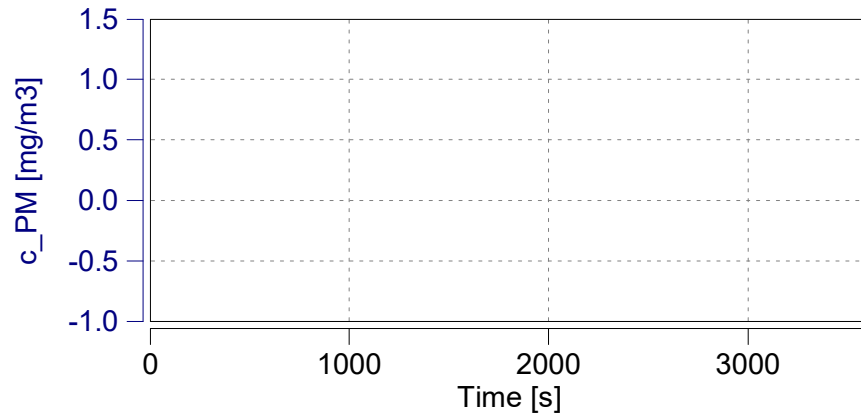
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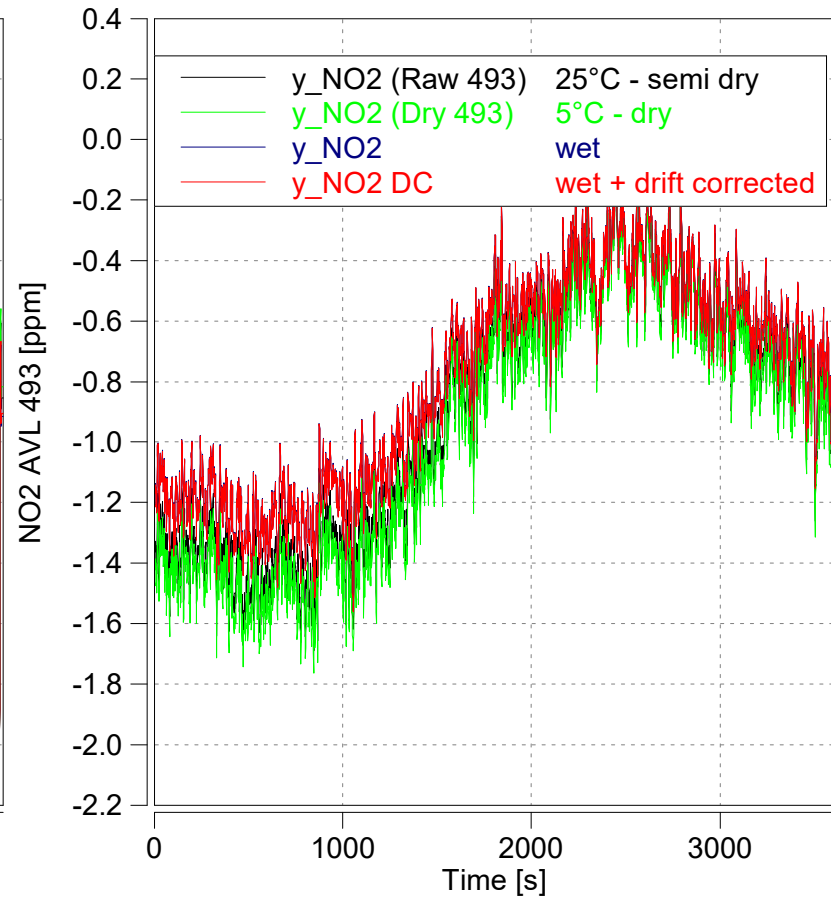
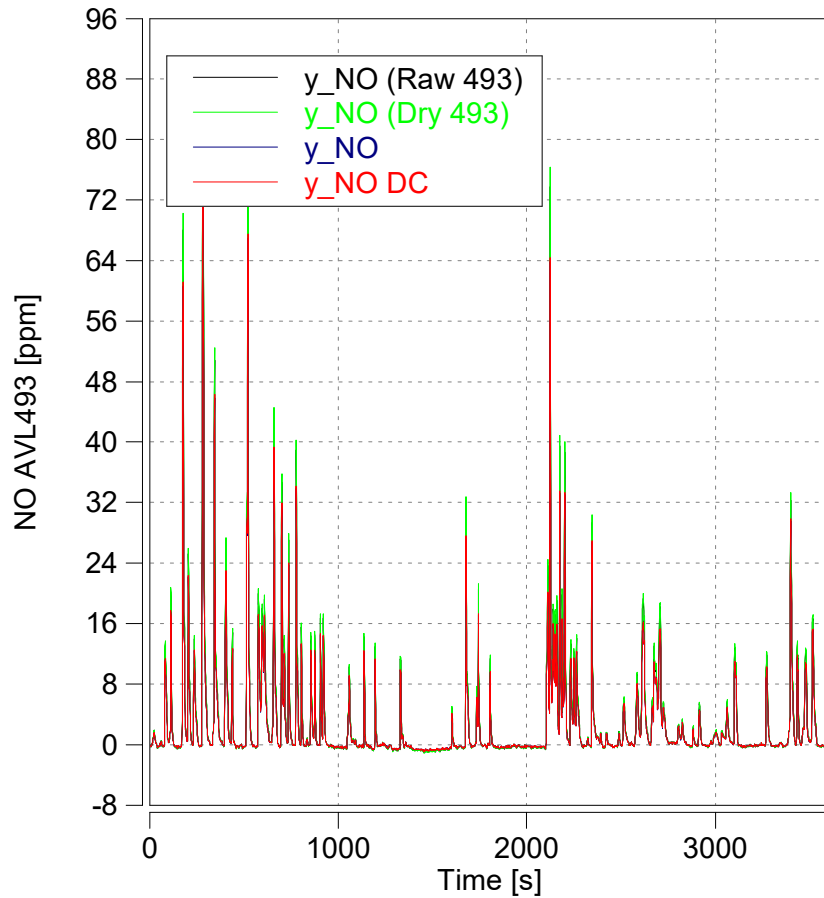
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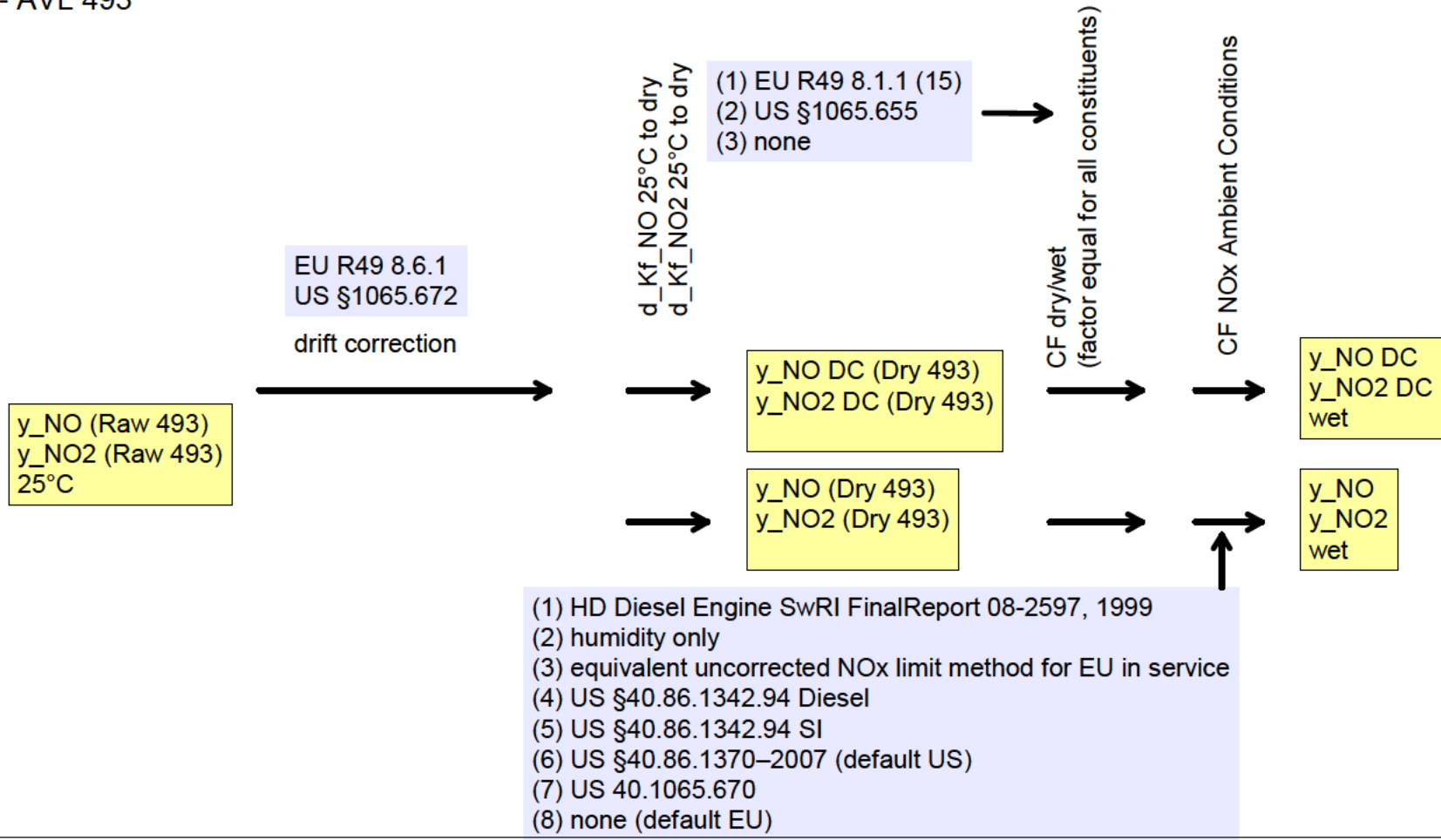


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NOx - AVL 493



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Case: Mountain

Page: Corrected Emissions (5)

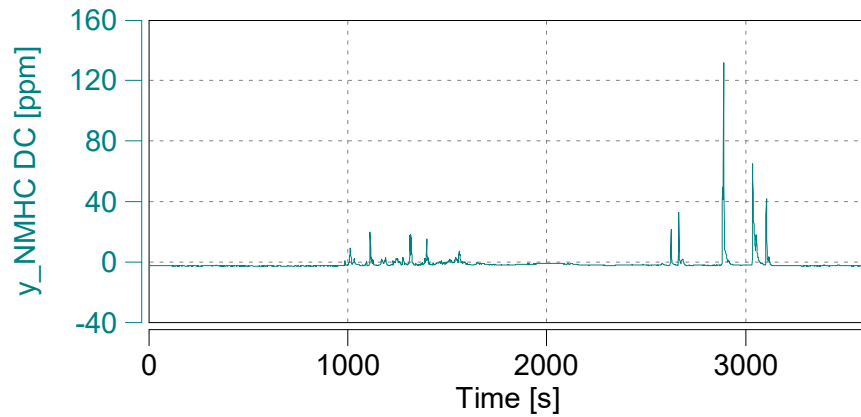
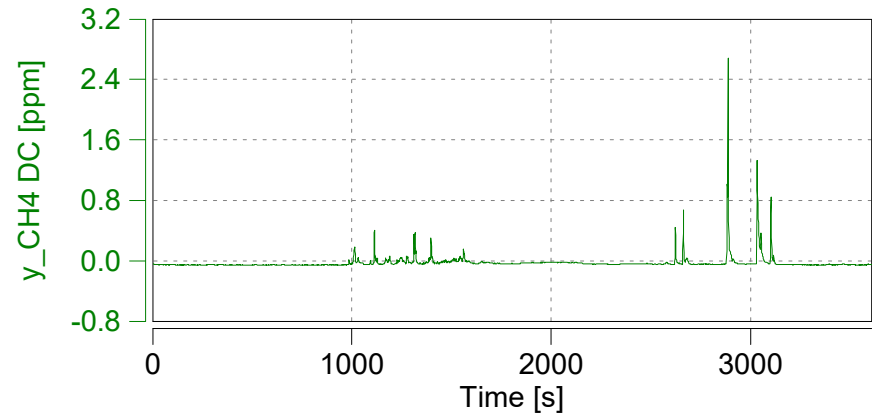
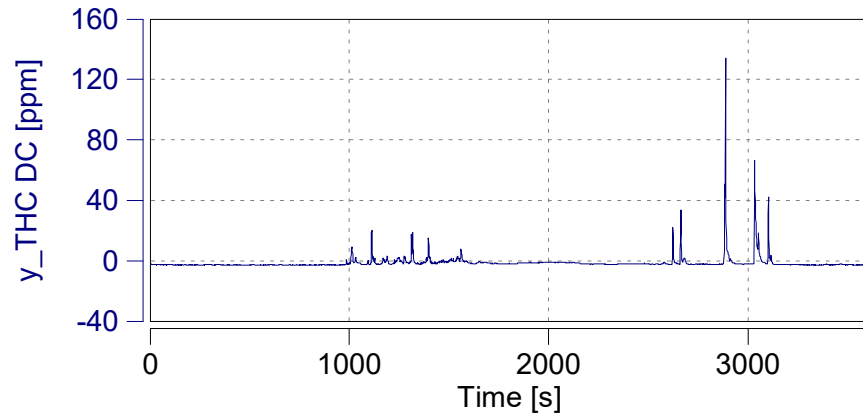
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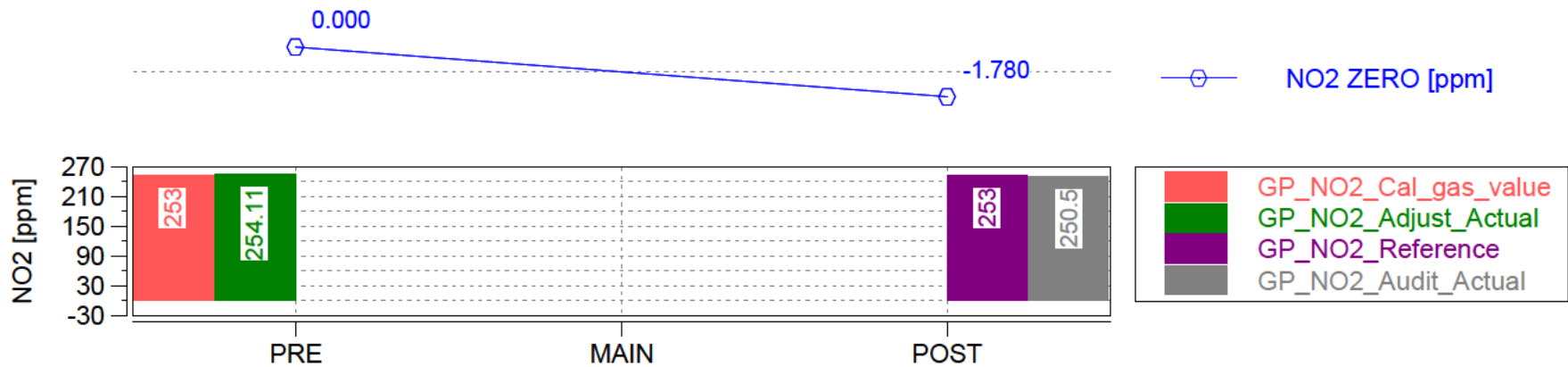
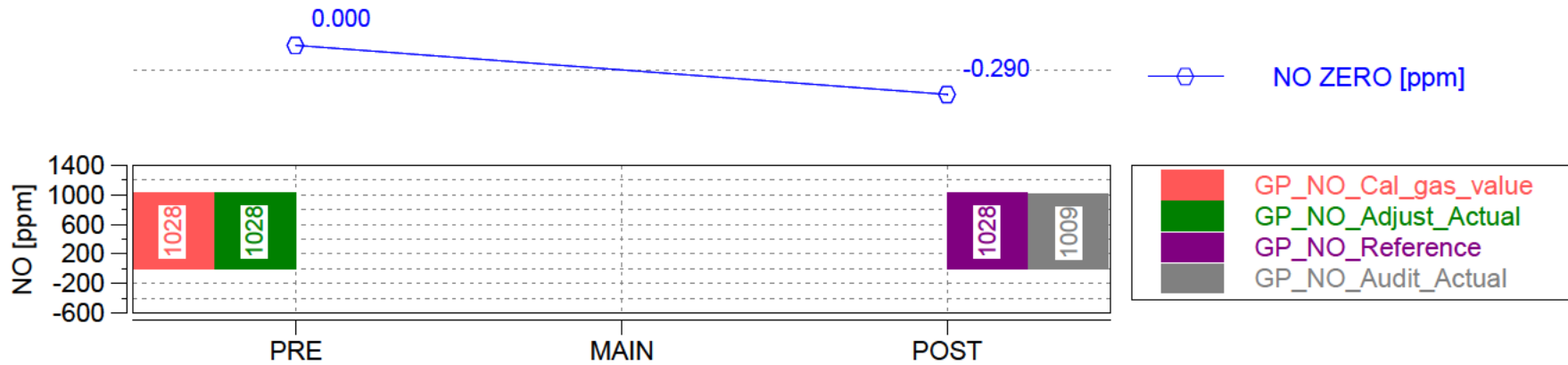


Concerto M.O.V.E., 2019



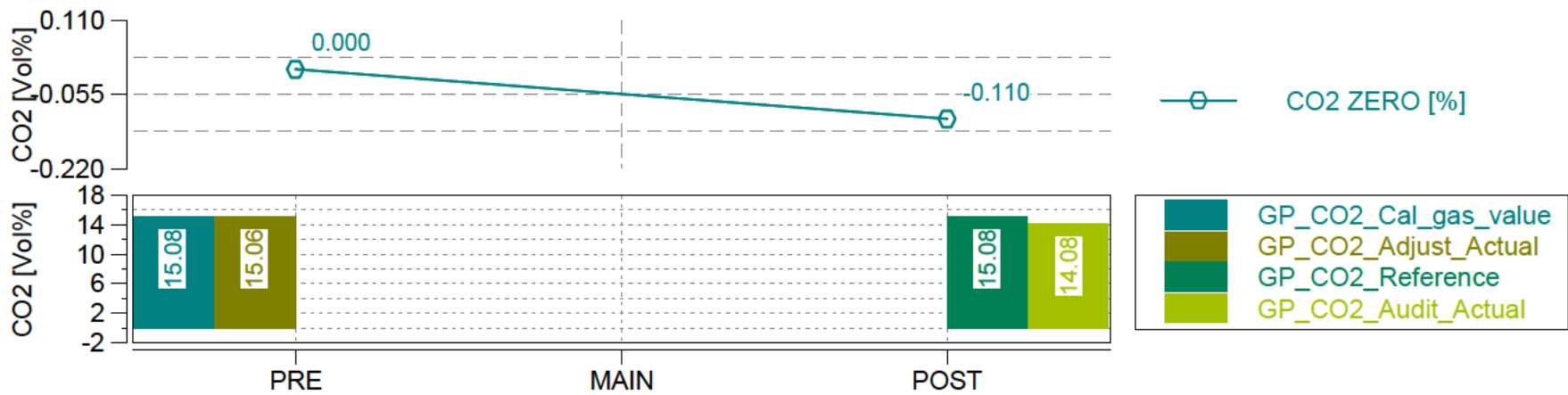
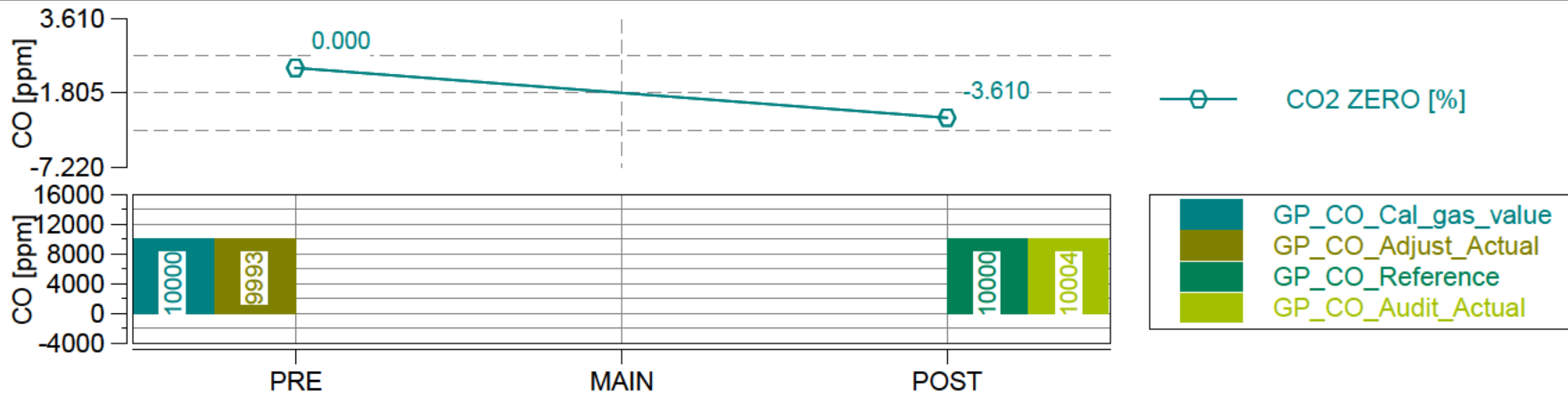
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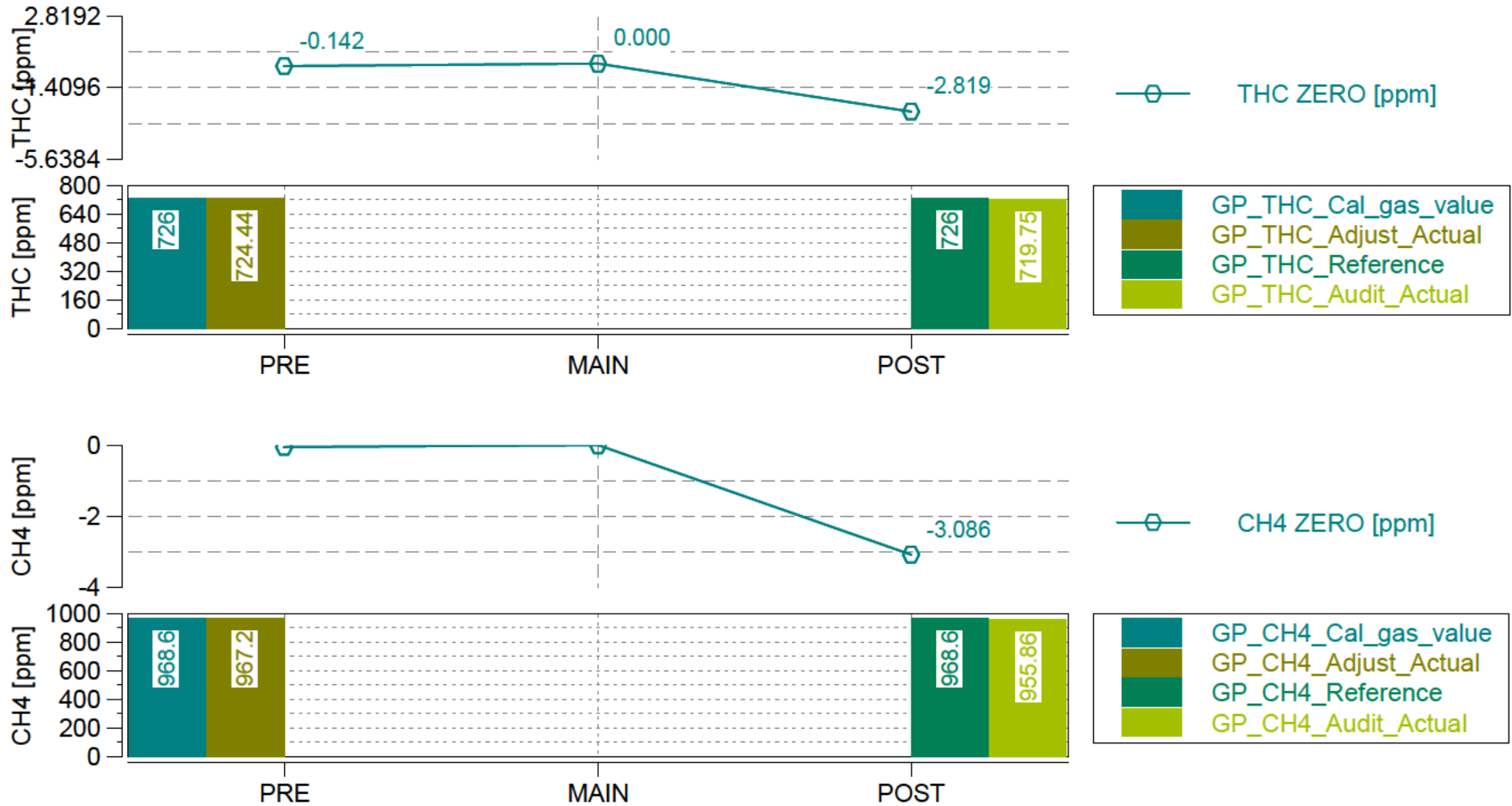
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Appendix C - Experimental

Emissions for each pollutant of interest were compared on a grams/test basis. UCR post-processed the data from the PEMS measurements and obtained the necessary data from the CVS emissions measurements for the comparisons. See Figure 1. The criteria for acceptable correlations for the grams/test emissions depended on the pollutant being measured and how close the measurements were to the detection limits. Typical criteria for these comparisons were developed based on similar testing done in Europe. These criteria are provided below in Table 1. UCR also verified the measured emissions and other data (including any data logging, consistency checks, and plausibility checks) following the completion of the correlation emissions test on each vehicle.

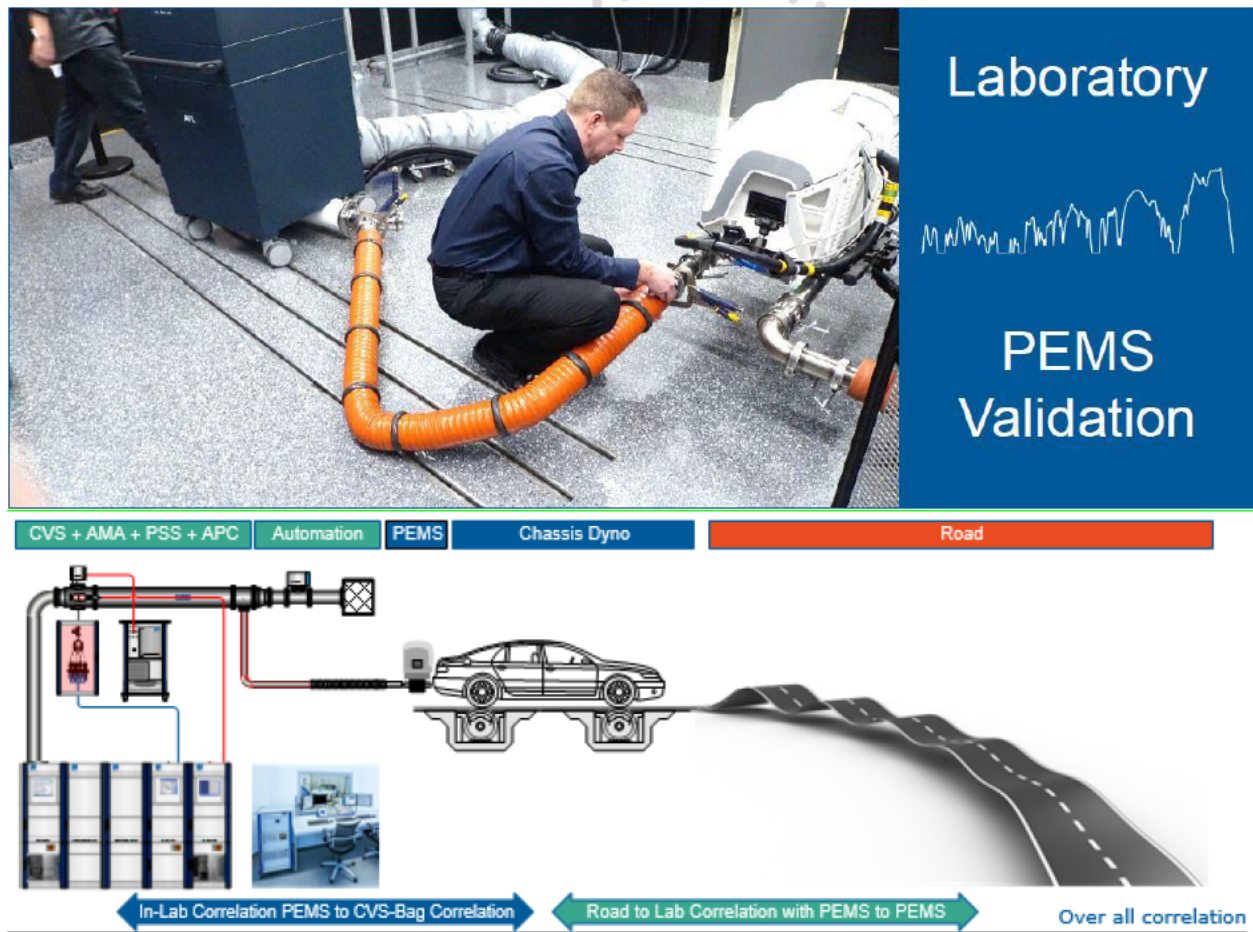


Figure 1. Validation of PEMS with stationary laboratories

Table 1. Typical specifications for PEMS/CVS intercomparisons based on European criteria

Pollutant	Absolute Zero response drift	Absolute Span response drift ⁽¹⁾
CO ₂	≤ 2 000 ppm per test	≤ 2 % of reading or ≤ 2 000 ppm per test, whichever is larger
CO	≤ 75 ppm per test	≤ 2 % of reading or ≤ 75 ppm per test, whichever is larger
NO _x	≤ 5 ppm per test	≤ 2 % of reading or ≤ 5 ppm per test, whichever is larger
CH ₄	≤ 10 ppm C ₁ per test	≤ 2 % of reading or ≤ 10 ppm C ₁ per test, whichever is larger
THC	≤ 10 ppm C ₁ per test	≤ 2 % of reading or ≤ 10 ppm C ₁ per test, whichever is larger

⁽¹⁾ If the zero drift is within the permissible range, it is permissible to zero the analyser prior to verifying the span drift.;

The AVL PEMS performs a data consistency check that includes a correlation between the measured fuel flow from the engine control unit (ECU) and the fuel flow calculated using the formula in section 8.4.1.6 of Annex 4B to UN/ECE Regulation No. 49, or by using procedures consistent with U.S. regulations. For this test, a minimum coefficient of determination of 0.90 and a slope between 0.9 and 1.1 was required.

The PEMS system performed alignment for the engine, GPS, concentration, and exhaust flow measurements to a common time basis prior to mass calculations. AVL CONCERTO has an automatic time alignment feature built into its post processor that was utilized. UCR aligned vehicle speed to GPS speed and engine RPM to exhaust flow. Emissions were aligned using a calculated approach which included delays due to the sample flow, line lengths, and mixing volumes in each analyzer path.

Portable Emissions Measurement System (PEMS) Sampling

This subsection describes the PEMS equipment that was used for the testing, the operating procedures for the PEMS, and the data processing.

Portable Emissions Measurement System (PEMS)

UCR worked directly with AVL to obtain the systems used for the PEMS testing. The PEMS used for this work was the AVL M.O.V.E Gas PEMS iS (AVL PEMS). The PEMS units were provided by AVL fully 1065 verified and ready for operation. UCR was provided with two units of each of the PEMS components, so that one PEMS was available for testing while the other served as back-up in the case of technical issues. UCR will maintain possession of both PEMS units throughout the course of the three year test program.

The AVL PEMS is a compact portable device for measuring NO/NO₂, CO/CO₂, and THC concentrations within the exhaust gas of diesel, gas, or gasoline powered vehicles. This system includes AVL's heated FID for total hydrocarbon (THC) measurement borrowed from its heavy-duty PEMS application. In conjunction with the emissions measurements, the AVL PEMS system provides GPS

data (route, vehicle speed, altitude, and acceleration) on a second by second basis from the vehicle's engine control module (ECM) and associated parameters via an OBD connection. The AVL PEMS was developed for the real driving emissions (RDE) and other regulatory compliance applications.

The AVL PEMS uses a UV analyzer for NO/NO₂ measurements. This UV analyzer measures NO and NO₂ simultaneously and directly, without the need of a converter. The analyzer provides good performance in terms of stability, with drift of just a few PPM over several hours. For CO/CO₂ measurements, an NDIR analyzer is used. This NDIR analyzer is optimal for a low drift and a high accuracy of the CO channel, even at very low measurement ranges.

An external Cutter FID module was integrated into AVL's latest version of AVL PEMS to include methane exhaust gas concentrations of diesel, gas, or gasoline engines and vehicles. The module was mounted outside the vehicle on a hitch for this testing. The exhaust gas is passed through it to the PEMS unit via a heated transfer line. The module is fully integrated into the AVL PEMS system. This system has been approved as meeting all DOT requirements relating to the carrying of FID fuel during on-road testing.

The AVL M.O.V.E Exhaust Flow Meter (EFM) measures the exhaust gas flow of vehicles with diesel or gasoline engines, as shown in Figure 2. It is based on the differential pressure measurement principle and consists of two main components: A "pitot" EFM measuring tube and an EFM control box, including the pressure transducers and the calculation unit. The EFM measuring tube is directly mounted at the tailpipe of the vehicle under the enclosure case, as shown below. The exhaust flow is needed to calculate the mass emissions from the measured exhaust gas emission concentrations. Depending on the engine size and type, different sizes of EFM measuring tubes are available. Typically a 2.5" EFM is sufficient to cover the exhaust flow range for a typical passenger vehicle, but 3" EFM tubes are available if necessary for a larger displacement engine-equipped vehicle.

The AVL M.O.V.E EFM control box measures the static and dynamic pressures as well as the exhaust gas temperature and calculates the exhaust flow based on pitot principle. For accurate measurements, even at highly dynamic flow conditions in the exhaust duct, pressure transducers with very high data rates (5 kHz) are used. The internal temperature of the control box is controlled at ~50°C to avoid condensation and to ensure stable flow measurements even at changing ambient temperatures. The EFM control box is fully integrated into the AVL PEMS system and was operated via the AVL M.O.V.E system control. The EFM control box is separated from the EFM tube and was installed outside the vehicle for this testing. This reduces the weight of the EFM tube itself and makes the installation on the tailpipe more convenient. For the connection of the EFM control box to the EFM, a combined pneumatic and electrical hybrid cable is used to minimize the number of cables needed for installation.

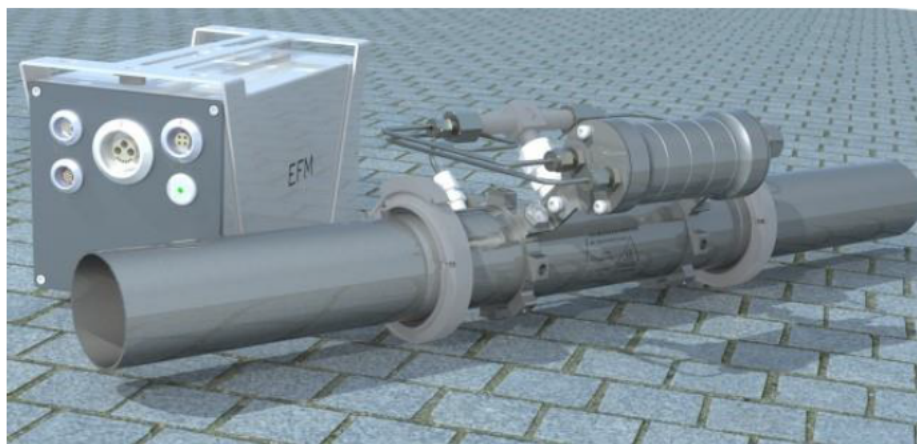


Figure 2. Exhaust flow meter utilized with the AVL system

All analyzers are mounted inside temperature controlled enclosures to ensure stable conditions and high accuracy even at changing ambient conditions, see Figure 3. A service door makes the access to consumables convenient. The AVL PEMS can be installed inside the vehicle or outside on a trailer hitch. For the testing in this program, the PEMS was installed on a hitch outside of the vehicle. An internal temperature conditioning system, which was specially designed for the mobile operation, ensures reliable operation over wide ambient operating temperatures ranging from -10°C to $+45^{\circ}\text{C}$ without any additional external heating or cooling devices. The device features internal dampers, so there is no need for additional external damping plates for passenger car applications. The power distribution (eBox), including the batteries, can be mounted on top of the AVL PEMS and is inside of the illustrated protection cover. For the testing performed in this program, a single exhaust sample line was utilized, and this sample line connected to the EFM section.



Figure 3. Typical trailer hitch installations of AVL system with enclosure

The specifications for the AVL PEMS system are provided in the following Table 2.

Table 2. Specifications for AVL PEMS system

Operating temperature (ambient)	-10°C to 45°C
Storage temperature	-40°C to +70°C (Oxygen sensor needs to be removed below 0°C and above 50°C)
Dimensions (w*h*d)	Measuring module: ~ 500 mm *350 mm *374mm with protection cover: ~ 590 mm *480 mm *447mm
Weight	< 30kg (NO _x module)
Warm-up time	Typical 45 min ... depending on ambient temperature conditions
Power demand	22V to 28V DC, appr. 250W at 20°C ambient temperature (with 1.25m sample line and after warm up)
Sample flow rate	< 3.5l/min
Sampling conditions	End of tail pipe, +-50 mbar relative pressure
Inputs/outputs electrical	1x heated line connectors 1x ethernet (TCP/IP)
Measurement range	NO/ NO ₂ : 0 - 5,000 ppm (NO) 0 - 2,500 ppm (NO ₂) CO/ CO ₂ : 0 - 5 vol% (CO), 0 - 20 vol% (CO ₂)
Accuracy	CO: 0 – 1,499 ppm: +-30 ppm abs., 1,500 ppm – 49,999 ppm: +-2% rel.; CO ₂ : 0 – 9.99 vol.%: +- 0.1 vol.% abs., 10 - 20 vol.%: +-2% rel. NO: 0 – 5,000 ppm: +-0.2% FS or +-2% rel. NO ₂ : 0 – 2,500 ppm: +-0.2% FS or +-2% rel.
Zero drift	CO: 20 ppm/8h, CO ₂ : 0.1 vol%/8h, NO: 2 ppm/ 8h NO ₂ : 4 ppm/8h
Span drift	CO: ≤ 20 ppm abs./8h or 2% rel./8h CO ₂ : ≤ 0.1 vol% abs./8h or 2% rel./ 8h NO/ NO ₂ : ≤ 1% rel./ week
Linearity	slope: 0.99 ≤ slope ≤1.01, intercept ≤0.5 %, SEE: ≤1% of range and R2: ≥0.999

*Device fully warmed up, 24 V supply, laboratory conditions and using dry calibration gases

For on-road testing, a chase vehicle was used in conjunction with the actual test vehicle. The chase vehicle was driven behind the test vehicle to provide protection for the AVL PEMS system. This helped minimize any damage that could have occurred during on-road testing and associated driving. A picture of a typical on-road test from a chase vehicle is provided in Figure 4.



Figure 4. Typical on-road testing as viewed from the chase vehicle

UCR worked directly with AVL for any maintenance or calibration needed on these units. For this, AVL set up a maintenance, calibration, and repair facility for their PEMS system directly at the UCR CE-CERT facility.

Data processing and reporting

The evaluation and processing of testing data was done with the AVL CONCERTO M.O.V.E. software (CONCERTO), which provides a complete data analysis and alignment calculation process. The software has a graphical user interface with the ability to parameterize data via drag and drop operation. The software also includes user guided test sequences (Pre-, Main-, and Post-testing) to make operation as easy as possible and minimize invalid test runs. The software supports all calculations and complete test validation for in-use testing applications. It also offers functions such as Google Maps integration for quick trip evaluations, video integration, and synchronization, as well as many other features. The graphical user interface (GUI) of CONCERTO data post-processing offers the ability to link test data to Google Maps or external video files. Additional information such as GPS data, ambient conditions, engine lug curve, engine performance data, test trip, and fuel consumption can be displayed as well. This is a key feature for evaluating real life test data under varying test conditions. CONCERTO data post-processing provides valuable insight into the data and how real life conditions on the road are linked to them. The program also has features to address hybrid vehicles, where there are periods of time without exhaust flow.

For this program, CONCERTO was customized for the on-road testing. The individual data reports for each vehicle and each test route were formatted to include data reporting and plots for each of the pollutants of interest and information about the QA/QC checks. The format is based on formats that are utilized in reporting for RDE regulatory requirements and includes similar levels of details. Data was exported to a CONCERTO Transport File (CTF File) or to a CSV file.

Quality assurance and quality control (QA/QC)

An important element of this testing is that the instrumentation was maintained at the highest possible level in terms of QA/QC. UCR worked directly with AVL to ensure all QA/QC metrics were met. The two PEMS systems, provided by AVL, came fully calibrated in accordance with the 1065 calibration criteria. This included all annual, bi-annual, and monthly checks per the CFR 1065 subpart J. AVL performed additional calibrations, as required during the course of testing. QA/QC checks were also performed as part of the daily, monthly, and test-to-test routines. The QA/QC were largely done as part of automated processes within the CONCERTO software. This included a series of pre- and post-test checks, as well as linearity and other checks.

Engine parameters

The engine parameters were requested as listed in the test plan for this testing program. These include MIL information, temperatures, velocity, and other emissions-related PIDs. Some parameters were not available due to equipment not installed on the vehicle (lambda, B3, and torque data).

Vehicle operation

All vehicles were operated by the same university student for the MY 2019 testing. The fuel utilized was based on the recommendations from the vehicle fuel label utilizing standard pump fuel (E10).

Equipment and test notes

During the MY2019 testing there was only one instrument-related issue which resulted in testing delays on two vehicles. The analyzer computer system overheated on Arteon 2L and A6 2L which caused testing delays and two test route repeats. The system controller computer was replaced with the backup system controller computer and the tests were completed. The overheating did not reoccur after that fix. All parameters and test conditions within the controlling computer were identical and the data is valid.

The ECM connection was working during all testing for the MY 2019 vehicles. The ECM signals are needed for distance calculation.

Four times, on the city route, there was heavy traffic that caused higher than usual test times (Jetta 1.4L, A6 3.0L, A4 2.0L, and A8 4.0L) and one time there was construction on the mountain route that caused higher than usual test times (A6 3.0L).