

Volkswagen PEMS-Bericht Kalenderjahr 2019

Volkswagen Group of America
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Hintergrund

Der Volkswagen-Konzern (VW) mit Hauptsitz im deutschen Wolfsburg ist ein großer Automobilhersteller mit 12 Marken in sieben europäischen Ländern: Volkswagen Pkw, Audi, SEAT, ŠKODA, Bentley, Bugatti, Lamborghini, Porsche, Ducati, Volkswagen Nutzfahrzeuge, Scania und MAN.

Die Volkswagen AG, AUDI AG und VWGoA sind nach dem geschlossenen The Third Partial Consent Decree verpflichtet, einen unabhängigen Dritten mit der Durchführung von Prüfungen mit einem mobilen Emissionsmessgerät (PEMS) bei Fahrzeugen der Modelljahre (MJ) 2017, 2018 und 2019 zu beauftragen. Laut diesem Prüfprogramm müssen unter bestimmten, im Third Partial Consent Decree geregelten Bedingungen, PEMS-Messungen für gesetzlich geregelte Luftschadstoffe und CO₂ erfolgen. Die Berichte für die MJ 2017 und 2018 wurden bereits erstellt und sind online verfügbar. Im vorliegenden Bericht sind die Prüfungsergebnisse für MJ 2019 Fahrzeuge des US-Marktes enthalten.

Vorgehen

Der Prüfplan wurde von der US-Umweltschutzbehörde EPA genehmigt und von einem Dritten, der University of California, Riverside (UCR), umgesetzt. Der Plan sieht für 2019 Emissionstests auf PEMS-Basis an zehn Fahrzeugen auf öffentlichen Straßen unter verschiedenen Bedingungen vor. Die gemessenen und im Bericht enthaltenen Emissionen enthalten Stickstoffdioxide (NO_x), Kohlenmonoxid (CO), Kohlendioxid (CO₂) und Gesamtkohlenwasserstoffe (THC). Alle Fahrzeuge wurden von der UCR ohne ein Mitwirken seitens VW getestet, konfiguriert und betrieben. Kontrollprüfungen in Bezug auf die Messqualität wurden vor und nach der PEMS-Prüfung mit kalibrierten / zertifizierten Gasen durchgeführt, sodass die im vorliegenden Bericht aufgeführten Daten als korrekt und repräsentativ angesehen werden können. Die Tests für die drei folgenden Straßenfahrten (Stadt-, Autobahn- und Bergstrecke) wurden in der Umgebung von Los Angeles, Kalifornien, durchgeführt.

Ergebnisse

Die Fahrzeuge des MJ 2019 wurden zwischen dem 18. Juli 2019 und 6. Dezember 2019 getestet und alle Fahrzeuge wurden innerhalb des Zeitrahmens getestet, auf den sich VW und die EPA einvernehmlich geeinigt haben. Die Ergebnisse werden in den nachstehenden Tabellen dargestellt. Bei den Tests werden alle Fahrzeuge mit handelsüblichem E10-Kraftstoff betankt. Tabelle 1 zeigt die getesteten Fahrzeuge, Tabelle 2 listet die Zusammenfassung der Praxis-Emissionsergebnisse auf und die Tabellen 3, 4 und 5 enthalten die zusammenfassenden Statistiken der Strecken.

Tabelle 1: Zusammenfassung der für das Modelljahr 2019 getesteten Fahrzeuge nach Prüfreihefolge (erster bis letzter) ¹

Prüfgruppe	Fahrzeugmodell	Hersteller	Fahrgestellnummer	Emissionsklasse	Antriebsart	Nennleistung [HP]	Nendrehmoment [Nm]	Getriebe	Abgasbehandlung	Kraftstoffart	Anfangskilometerstand [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

Tabelle 2: Zusammenfassung der Emissionsergebnisse für die Straßenstrecken ^{2,3}

Prüfgruppe	Fahrzeugmodell	Emissionklasse	Stadtstrecke g/mi					Autobahnstrecke g/mi					Bergstrecke g/mi				
			CO2	THC	CO	NOx	NMOG	CO2	THC	CO	NOx	NMOG	CO2	THC	CO	NOx	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 Der während des Kalenderjahres 2019 getestete R8 war ein Fahrzeug des MJ 2018.

² NMOG wurde unter Verwendung der Formel $NMOG = 1.1 * NMHC$ (g/mi) berechnet. NMHC wurde berechnet gemäß 40 CFR Part 1065.660 (b)(1) unter Verwendung der Formel $NMHC = 0.98 * THC$, wobei als Konzentration THC (ppm) vorliegt.

³ Negativwerte stehen nicht für Emissionswerte kleiner Null, sondern können aus einer Nullpunktabweichung von Instrumenten während der Tests resultieren.

Table 3: Zusammenfassung der Fahrstatistiken für die Stadtstrecke

Prüfgruppe	Fahrzeugmodell	Fahrdauer [mm:ss]	Streckenlänge [mi]	Durchschnittsgeschwindigkeit [mph]	Höchstgeschwindigkeit [mph]	v*a (95th percentil) [m ² /s ²]	RPA [m/s ²]	Anteil Stillstand [%]	Anteil konstante Geschwindigkeit [%]	Anteil Beschleunigung [%]	Anteil Verzögerung [%]	Steigung (95. percentil) [%]	Kumulative positive Höhe [m]	Höhenunterschied [m]	Durchschn. Umg. Temperatur [F]
KVGAJ03.ONAM	Q8 3.0L	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
KVGAJ03.ON7F	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
KVGAJ03.ON7N	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.ONAT	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: Zusammenfassung der Fahrstatistiken für die Autobahnstrecke

Prüfgruppe	Fahrzeugmodell	Fahrdauer [mm:ss]	Streckenlänge [mi]	Durchschnittsgeschwindigkeit [mph]	Höchstgeschwindigkeit [mph]	v*a (95th percentil) [m ² /s ²]	RPA [m/s ²]	Anteil Stillstand [%]	Anteil konstante Geschwindigkeit [%]	Anteil Beschleunigung [%]	Anteil Verzögerung [%]	Steigung (95. percentil) [%]	Kumulative positive Höhe [m]	Höhenunterschied [m]	Durchschn. Umg. Temperatur [F]
KVGAJ03.ONAM	Q8 3.0L	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
KVGAJ03.ON7F	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
KVGAJ03.ON7N	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.ONAT	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: Zusammenfassung der Fahrstatistiken für die Bergstrecke

Prüfgruppe	Fahrzeugmodell	Fahrdauer [mm:ss]	Streckenlänge [mi]	Durchschnittsgeschwindigkeit [mph]	Höchstgeschwindigkeit [mph]	v*a (95th percentil) [m ² /s ²]	RPA [m/s ²]	Anteil Stillstand [%]	Anteil konstante Geschwindigkeit [%]	Anteil Beschleunigung [%]	Anteil Verzögerung [%]	Steigung (95. percentil) [%]	Kumulative positive Höhe [m]	Höhenunterschied [m]	Durchschn. Umg. Temperatur [F]
KVGAJ03.ONAM	Q8 3.0L	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
KVGAJ03.ON7F	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
KVGAJ03.ON7N	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.ONAT	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



Abbildung 1: Straßentest im öffentlichen kalifornischen Straßenverkehr

Zusammenfassung

Die Emissionen der Testfahrzeuge waren repräsentativ für typische Betriebsbedingungen für Stadt-, Autobahn- und Bergfahrten. Die Bedingungen reichten von 55°F bis 90°F, 0% bis 11% Anstieg und bis auf eine Höhe von 2,400 Fuß über dem Meeresspiegel. Zusammenfassend lässt sich sagen, dass die dargestellten Emissionen repräsentativ sind für einen stichhaltigen Praxistest.

Mit freundlichen Grüßen

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Anhang A - Strecken

Die Strecken für Straßentests deckten verschiedene Geographien und Klimabedingungen ab, wie z.B. im stockenden Stadtverkehr, Fahrten auf der Autobahn und auf starken Steigungen/hohen Erhebungen. Die Strecken beinhalten eine Strecke in der Innenstadt von Los Angeles, eine Autobahnstrecke zwischen Oxnard und Santa Barbara, Kalifornien, und eine Strecke in den Bergen von Santa Barbara. Tabelle 1 zeigt die Charakteristika der Teststrecken und die Strecken sind geografisch in Abbildung 1 dargestellt. Die EPA hat bestätigt, dass die Strecken ihre Anforderungen für die PEMS-Prüfung unter dem Consent Decree erfüllen. Die Strecken sind nachfolgend detaillierter beschrieben.

Tabelle 1: Beschreibung der Teststrecken und wichtigste Statistiken jeder Fahrt

Strecke	Farbcode der Karte	Zugänglichkeit (Std.)	Länge der Strecke (Meilen)	Durchschnittsgeschwindigkeit (mph)	Kum. Höhe d. Stelle (Fuß)	95 Perzentil Rate in %
1. LA - Innenstadt	Blau	9-14 oder 20-24	16	16	521	2.7
2. Autobahnfahrt	Grün	24 Std.	39	53	600	2.8
3. Berge	Rot	24 Std.	29	33	2667	10.6

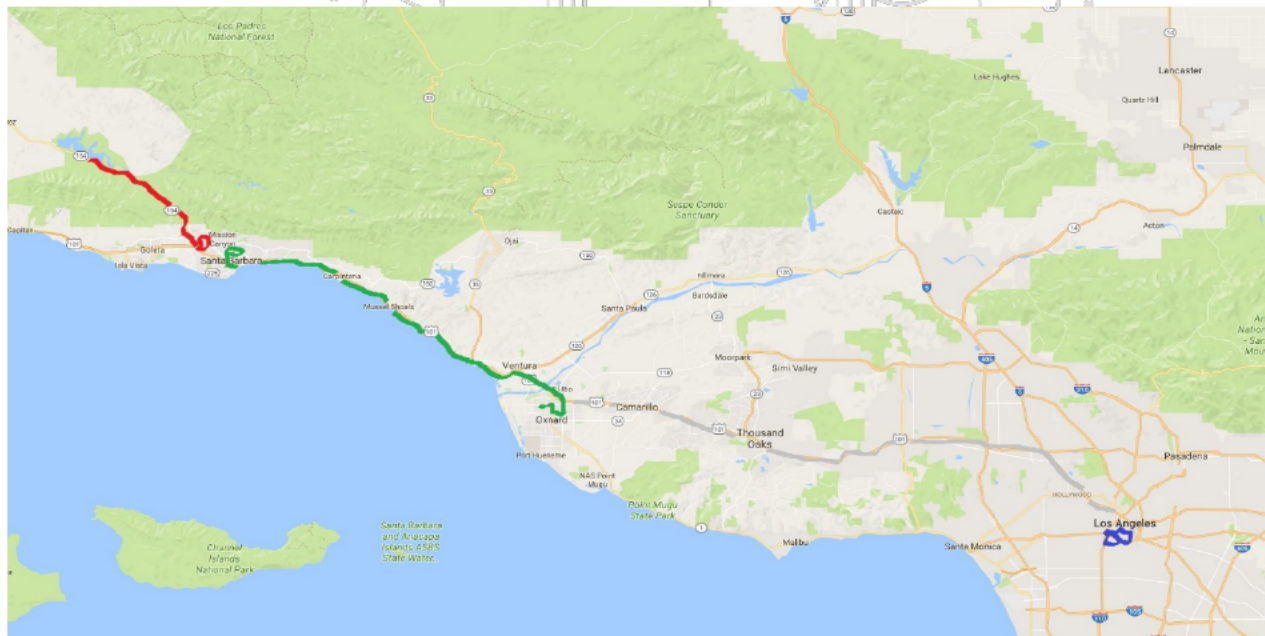


Abbildung 1: Überblick über die drei Teststrecken

In Abbildung 2 ist eine Karte der Innenstadtstrecke in LA abgebildet, als Strecke 1 bezeichnet, die für Stadtfahrten in der Innenstadt von Los Angeles repräsentativ ist. Diese Strecke entspricht grundsätzlich der “Los Angeles Route Four” (d.h. LA4), die letztendlich für die Entwicklung des originalen FTP-Fahrzeug-Zertifizierungszyklus verwendet wurde, mit wenigen geringfügigen Änderungen an Stellen,

an denen sich das Verkehrsmuster oder die Straßen seit der Entwicklung des FTP verändert haben. Die normale Durchschnittsgeschwindigkeit für diese Strecke liegt bei 17 mph und ein typisches Geschwindigkeits- und Höhenprofil dieser Strecke ist in Abbildung 3 dargestellt. Die Strecke ist 16 Meilen lang und hat ihren Start- und Endpunkt an der University of Southern California (USC).

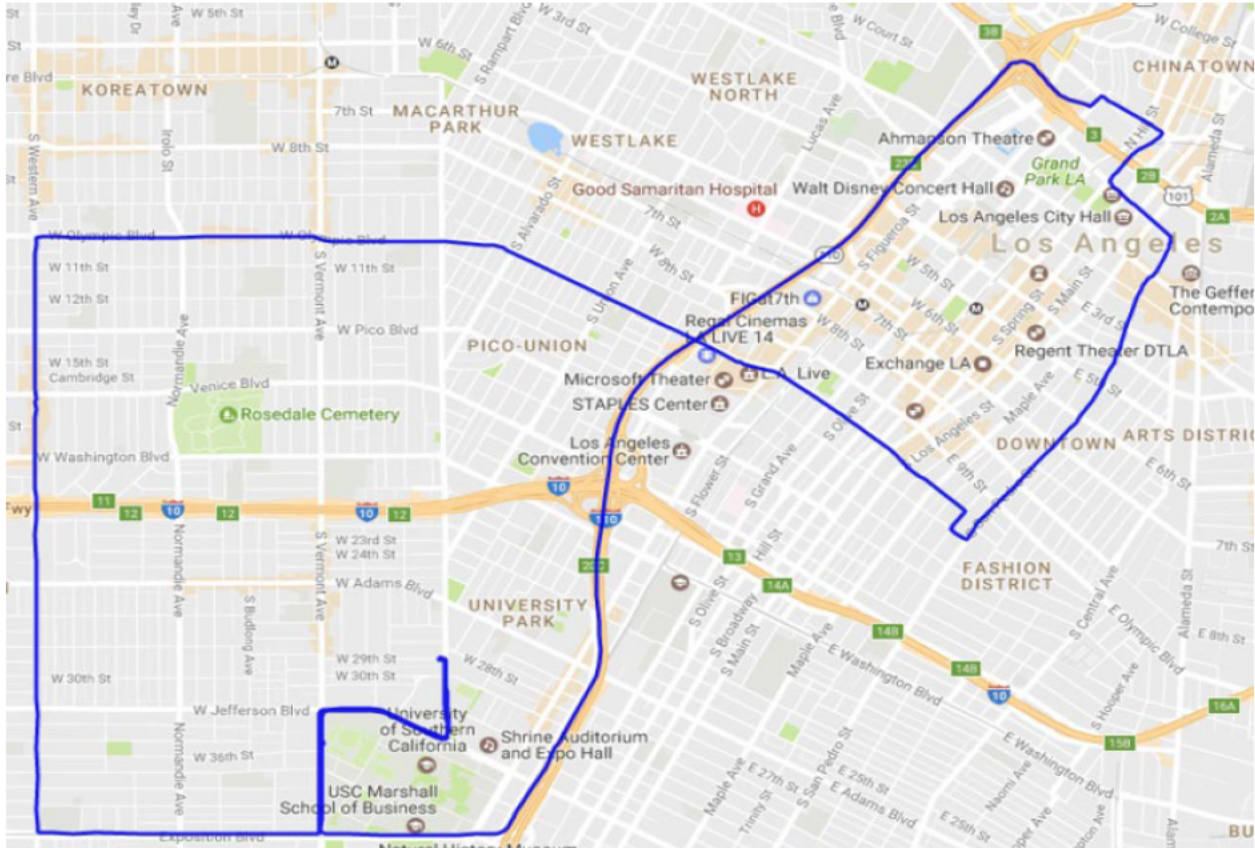


Abbildung 2: Straßenkarte von Strecke 1, Stadtfahrt in der Innenstadt von Los Angeles

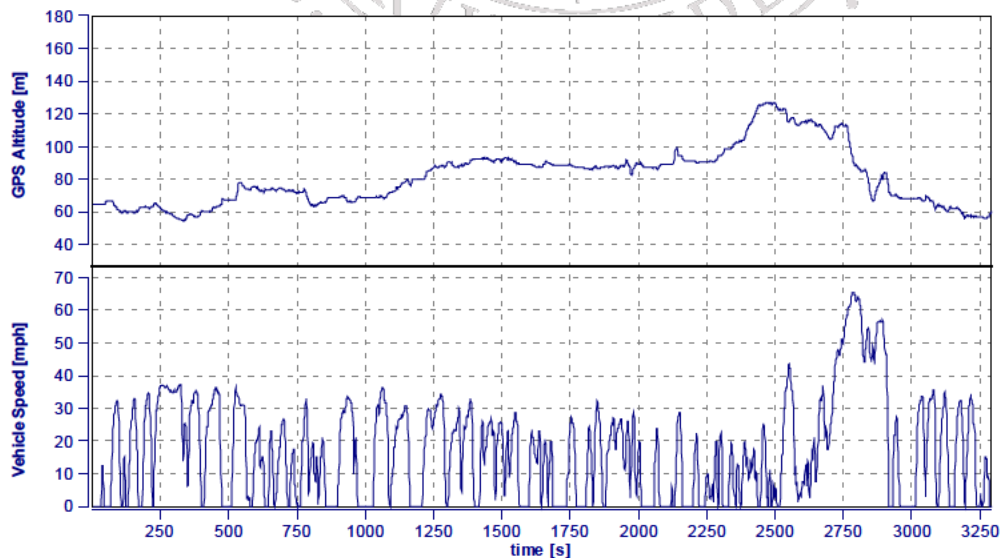


Abbildung 3: Geschwindigkeits- und Höhenprofile für Strecke 1, Stadtfahrt in der Innenstadt von Los Angeles

Eine Karte der Autobahnstrecke, als Strecke 2 bezeichnet, ist in Abbildung 4 abgebildet. Strecke 2 ist 39 Meilen lang zwischen Oxnard und Santa Barbara, Kalifornien. Die normale Durchschnittsgeschwindigkeit für diese Strecke liegt bei 47 mph, und ein typisches Geschwindigkeits- und Höhenprofil dieser Strecke ist in Abbildung 5 dargestellt.

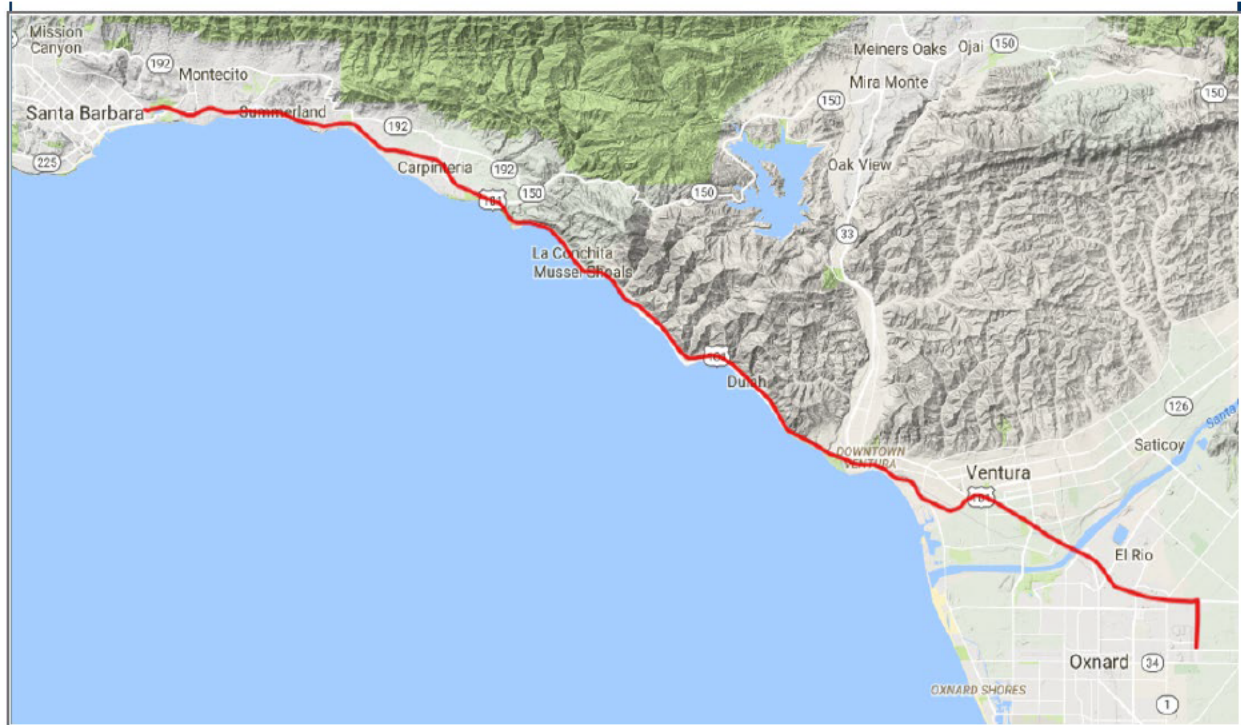


Abbildung 4: Topografische Karte von Strecke 2, Fahrt auf der Autobahn zwischen Oxnard and Santa Barbara

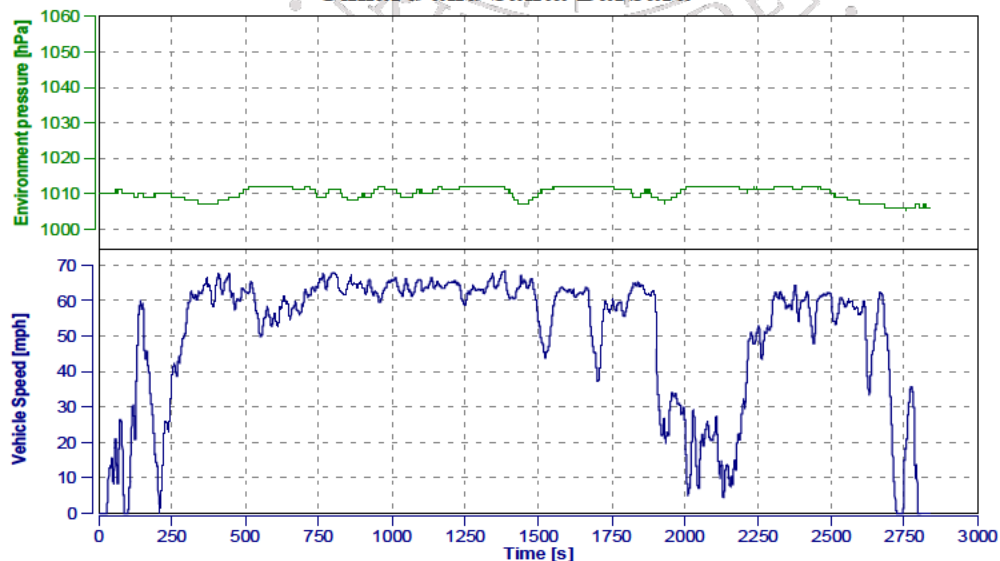


Abbildung 5: Geschwindigkeits- und Höhenprofile für Strecke 2, Fahrt auf der Autobahn

Eine Karte der Bergauf-/Bergab-Strecke, als Strecke 3 bezeichnet, ist in Abbildung 6 abgebildet. Strecke 3 ist 29 Meilen lang, wovon der größte Teil in den Bergen von Santa Barbara liegt. Die normale Durchschnittsgeschwindigkeit für diese Strecke liegt bei 35 mph, und ein typisches Geschwindigkeits- und Höhenprofil dieser Strecke ist in Abbildung 7 dargestellt. Die maximale Erhebung der Strecke ist 2,400 Fuß.

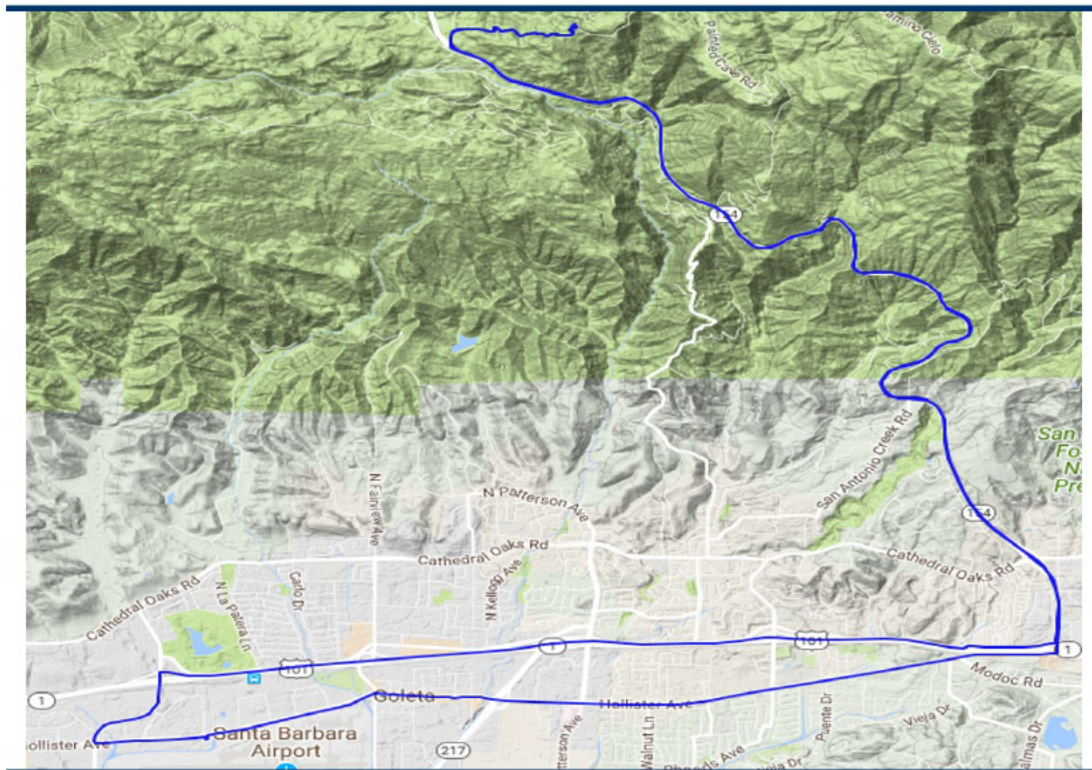


Abbildung 6: Topografische Karte von Strecke 3, Bergauf-/Bergabfahrt in den Bergen von Santa Barbara

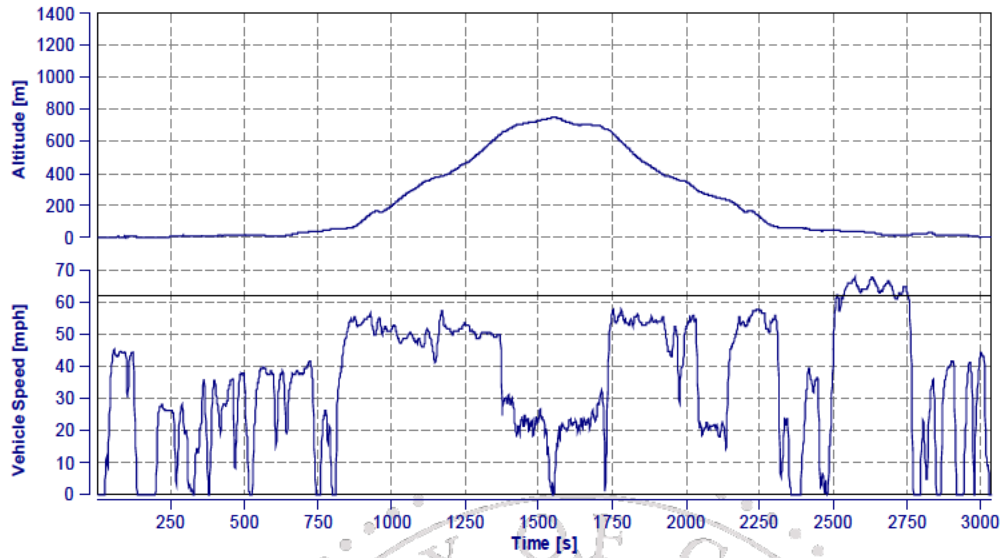
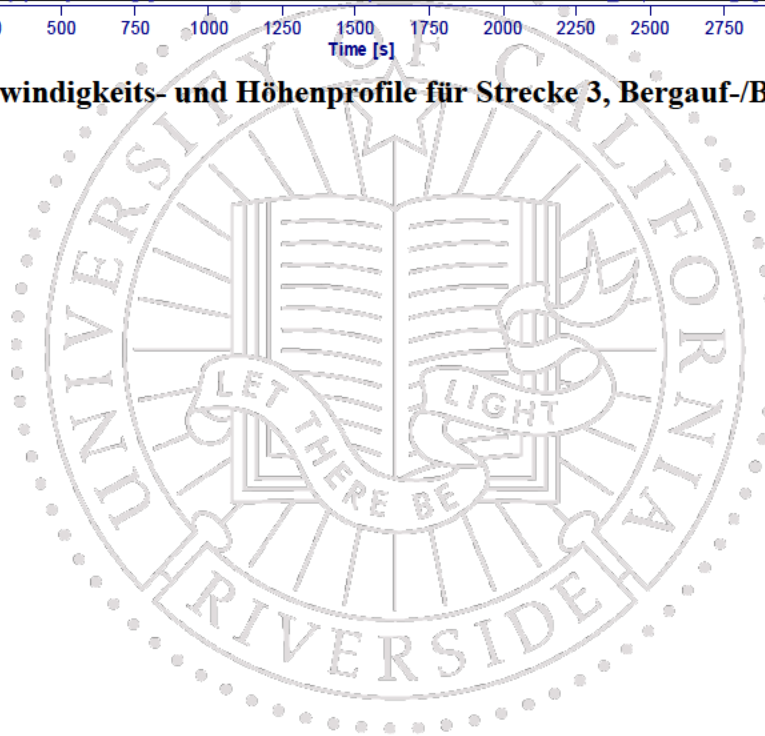


Abbildung 7: Geschwindigkeits- und Höhenprofile für Strecke 3, Bergauf-/Bergabfahrt



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\WorkEnvironmets\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

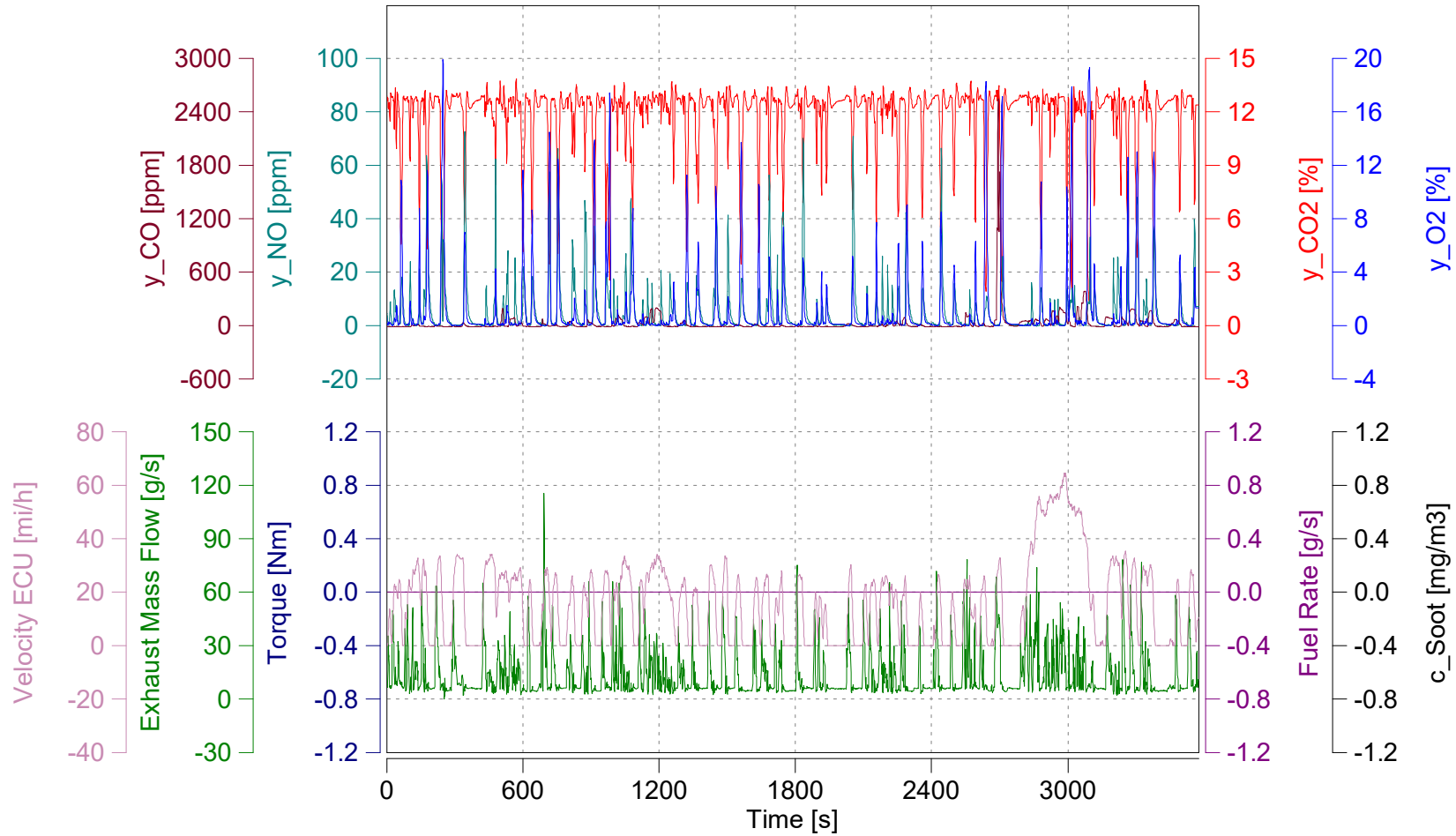
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Vehicle: Audi Q8 / 3.0 L

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

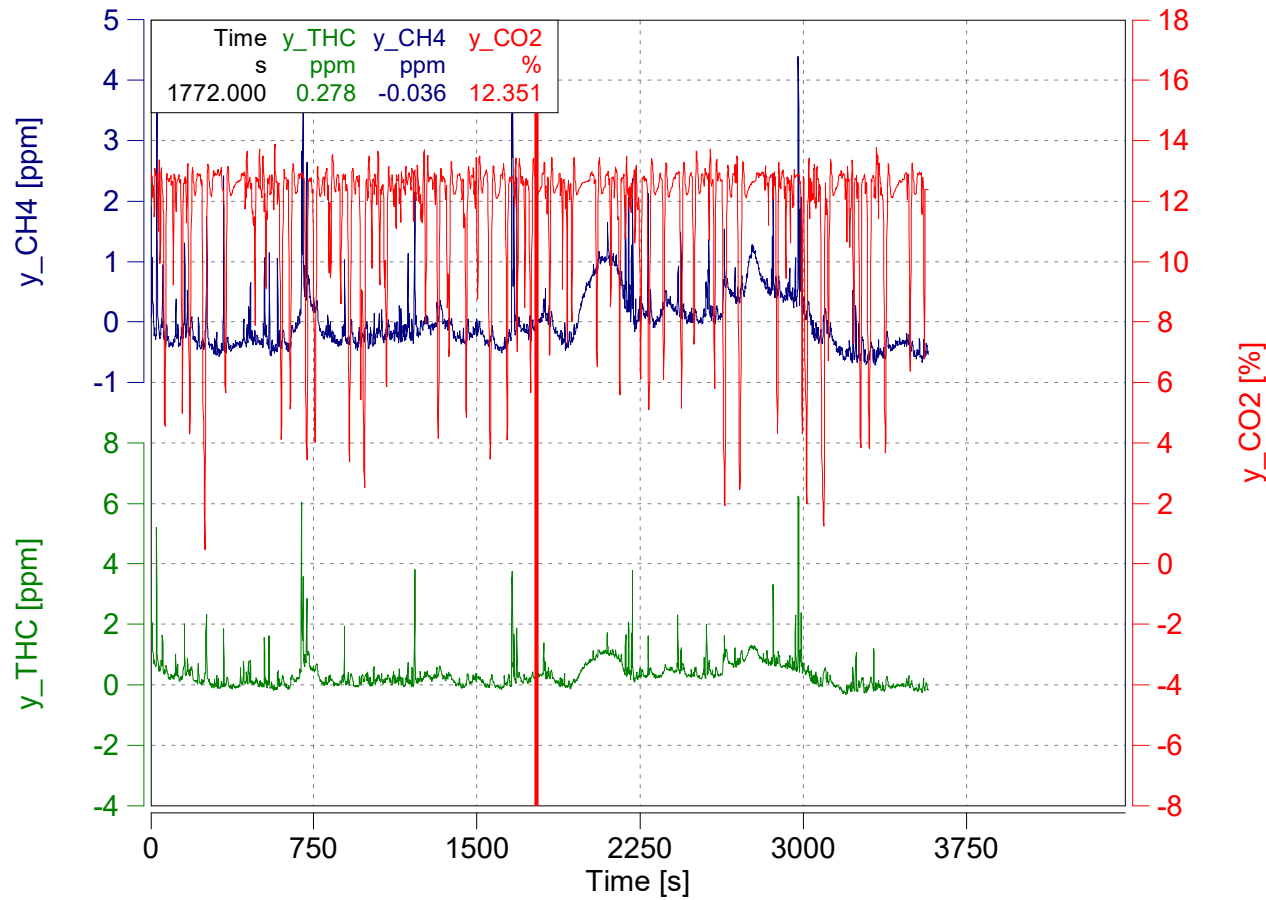
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Vehicle: Audi Q8 / 3.0 L

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

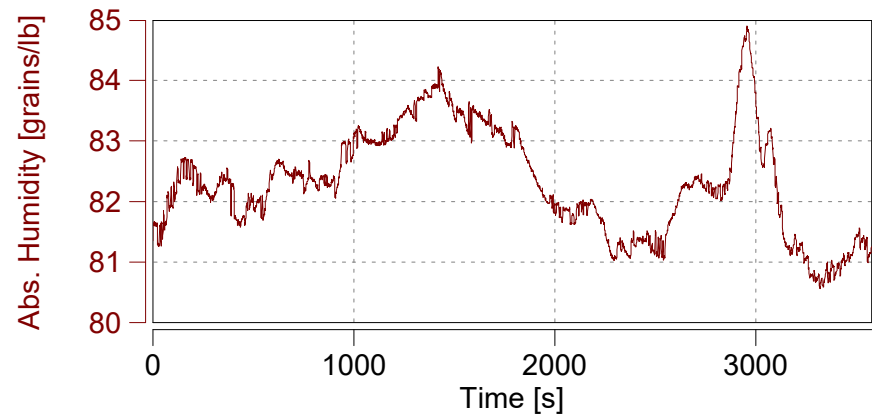
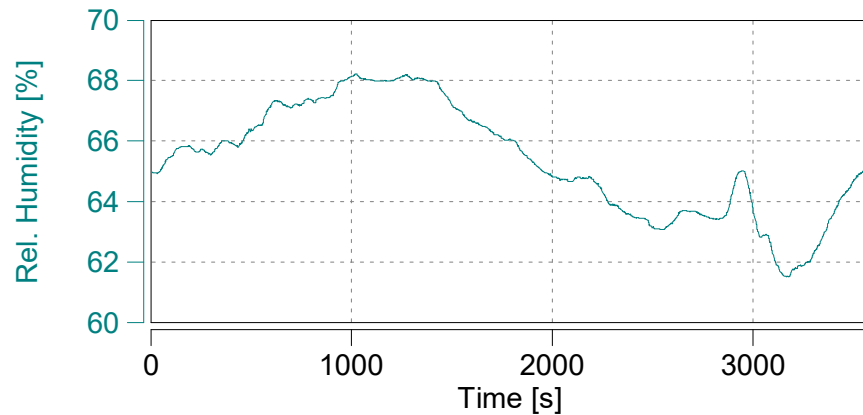
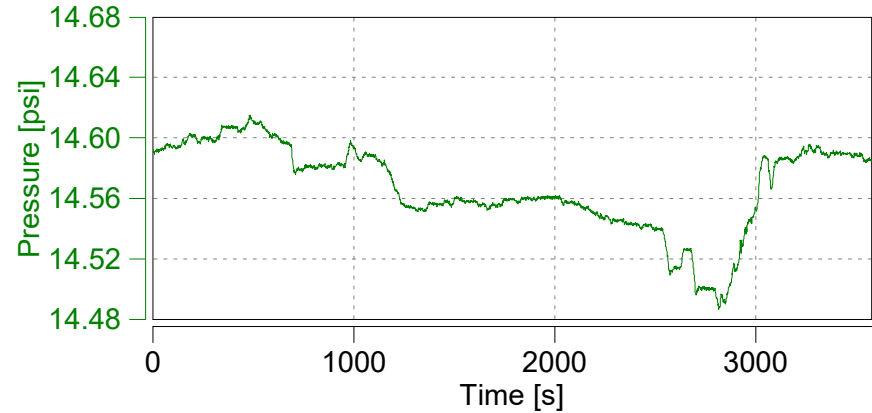
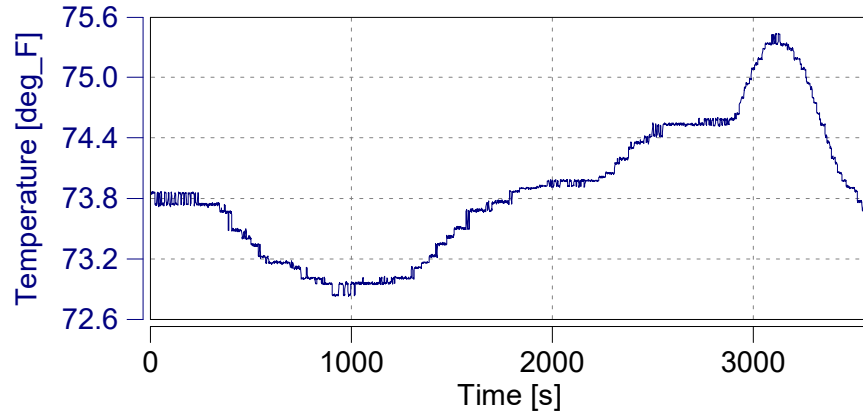
'City'

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

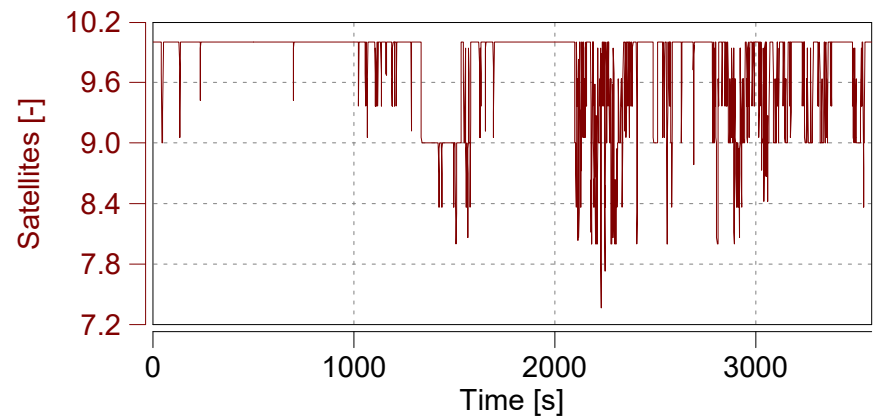
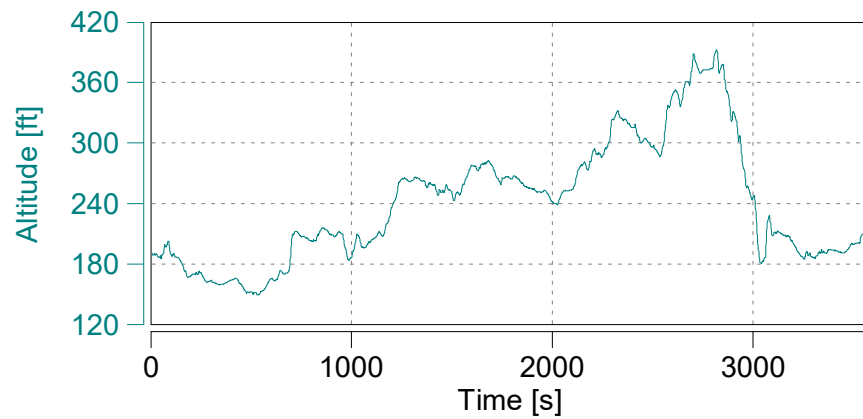
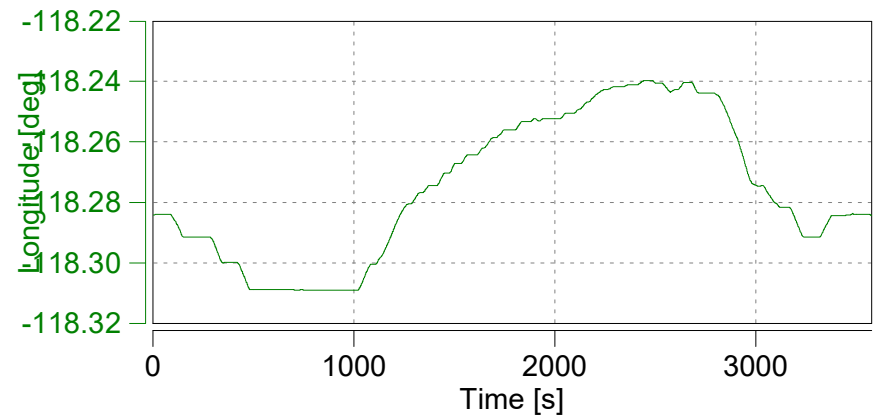
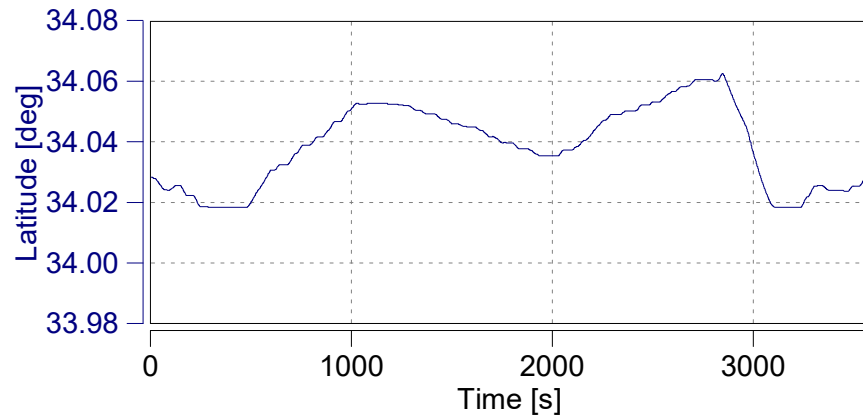
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

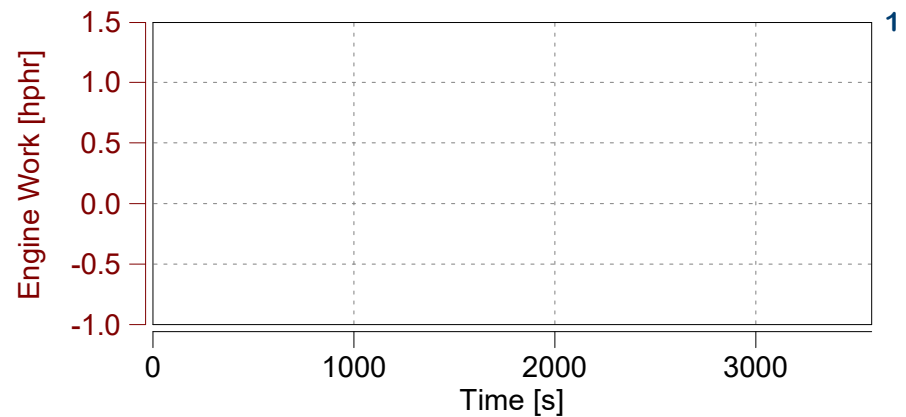
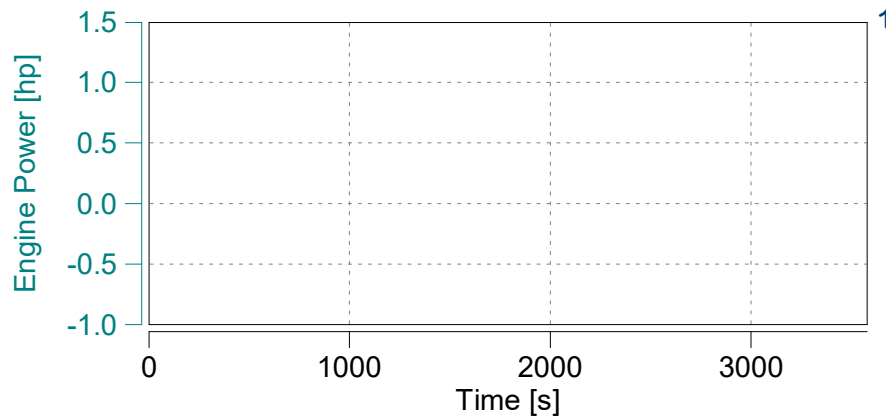
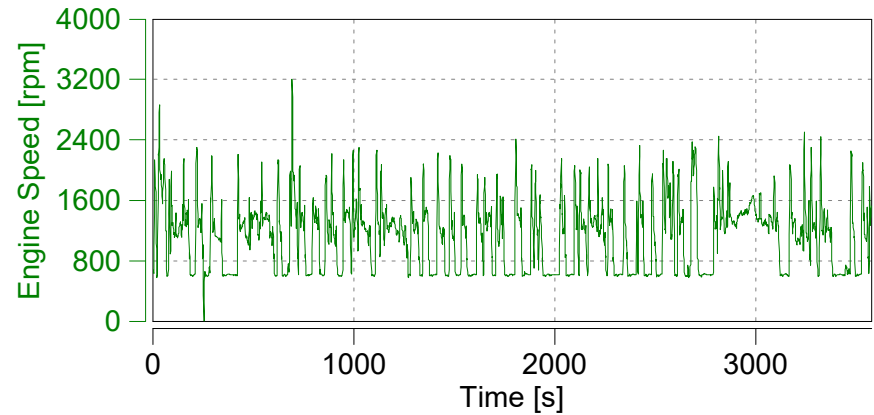
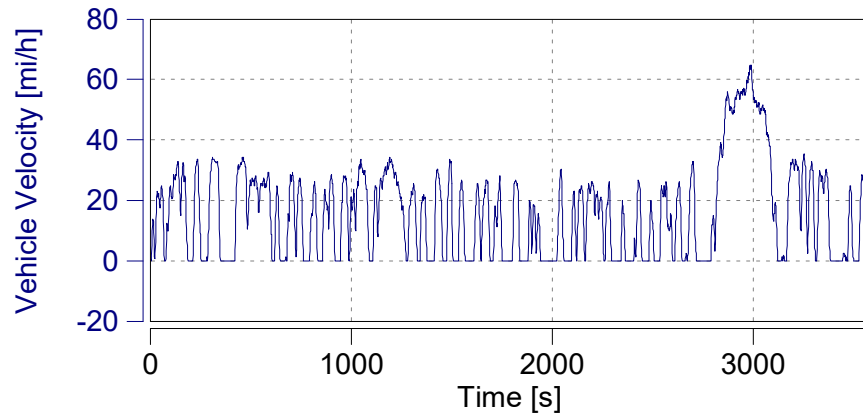
'City'

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_

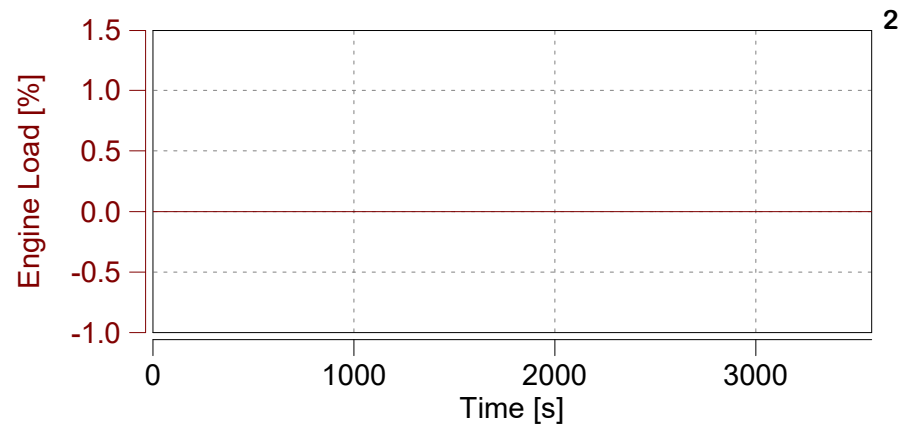
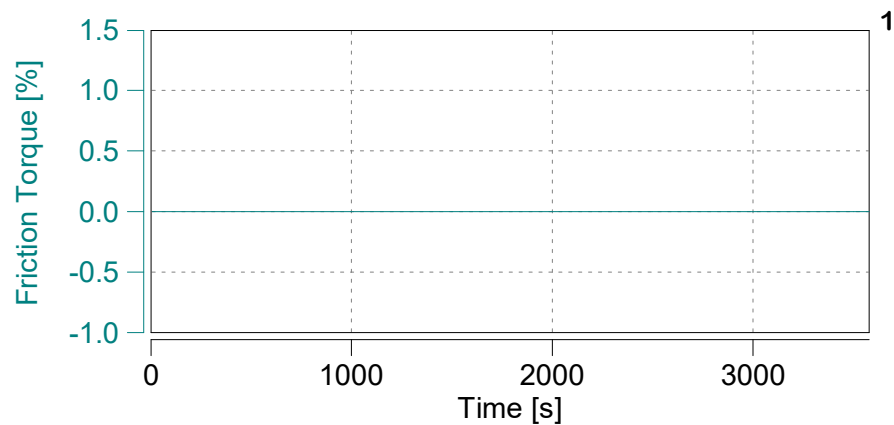
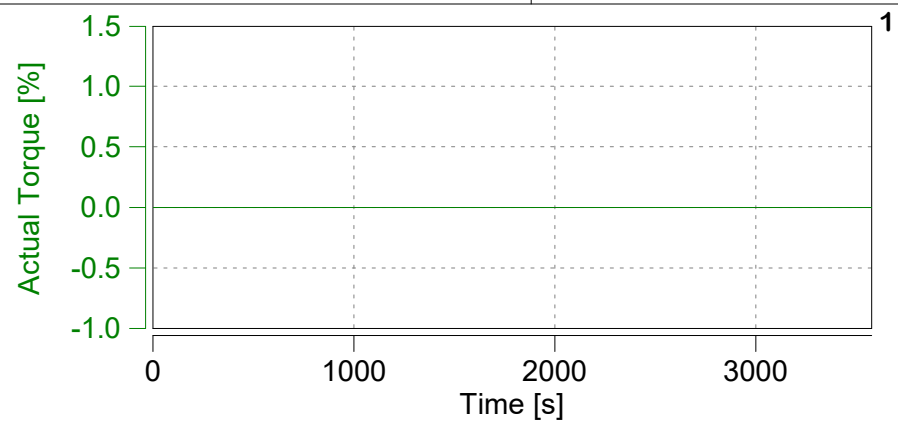
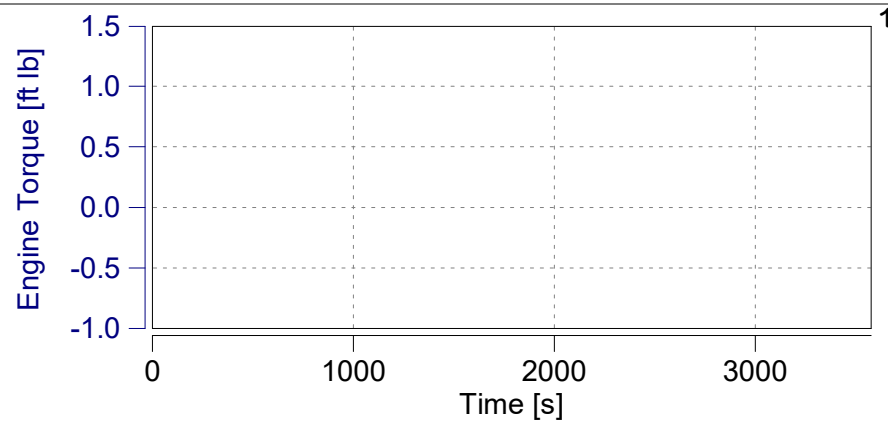
Vehicle: Audi Q8 / 3.0 L

Engine: /

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

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

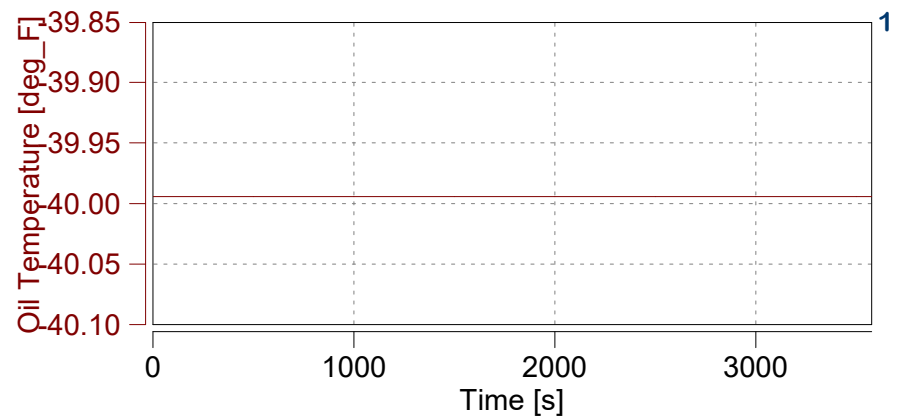
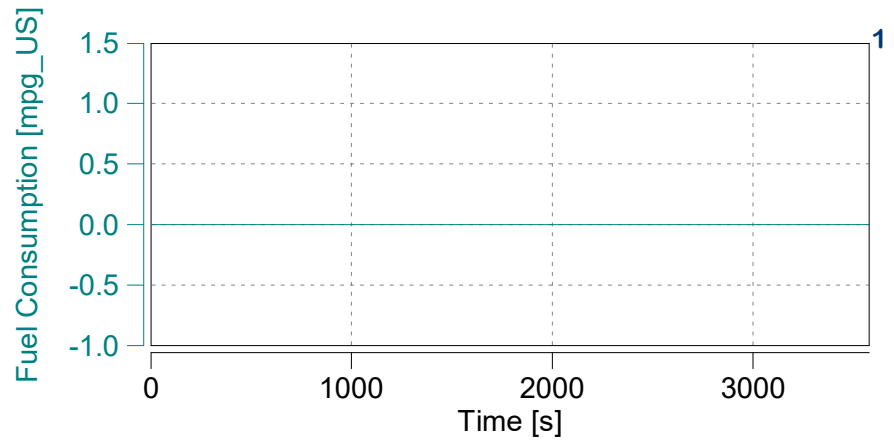
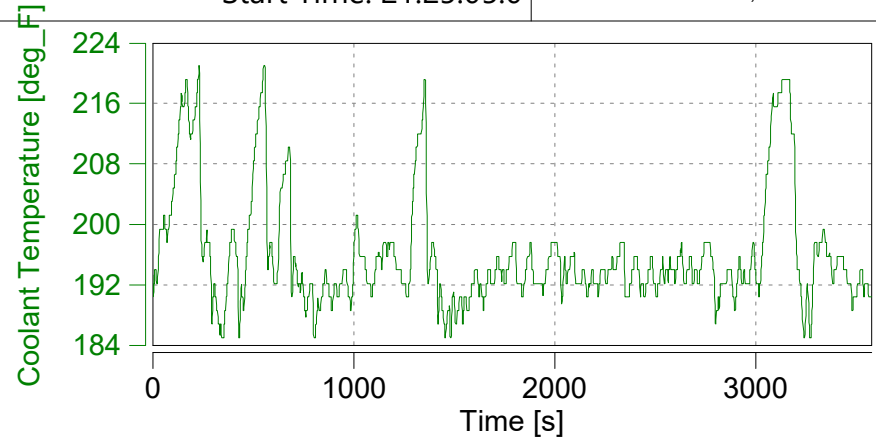
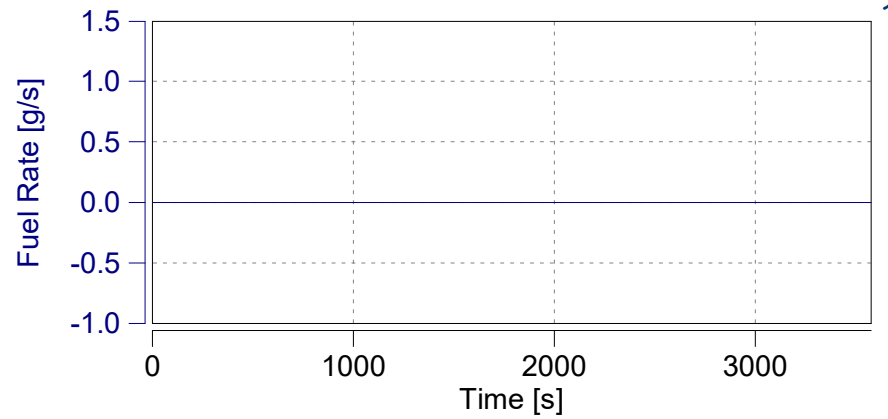
1 ECM torque data was not available on the tested vehicle so some figures will show no results. This will be true for these figures on all vehicles.



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)

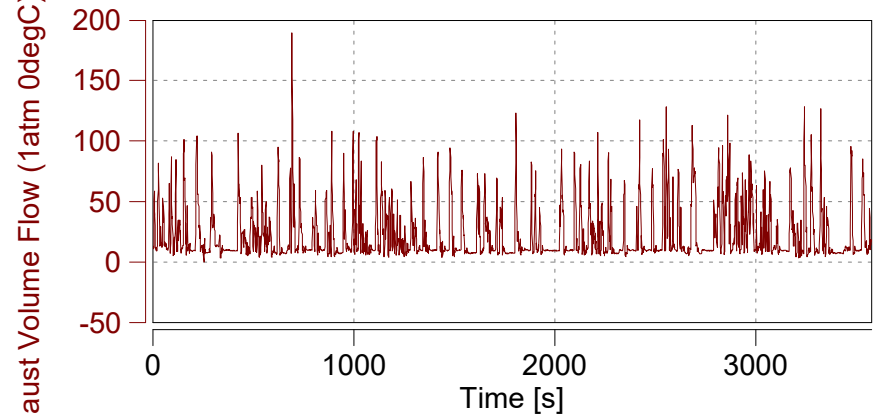
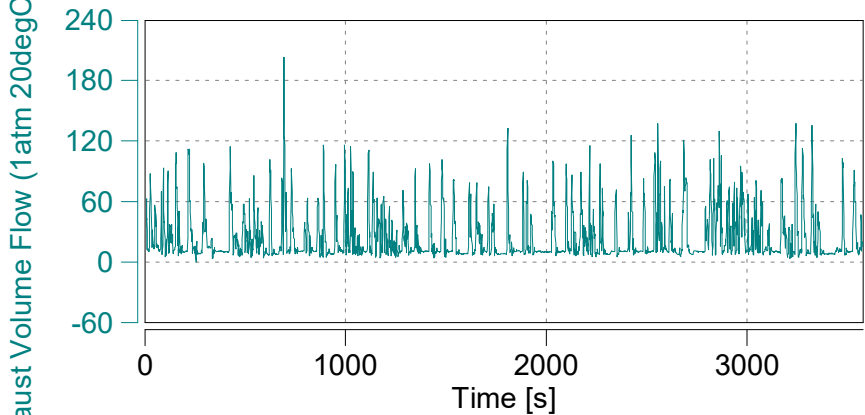
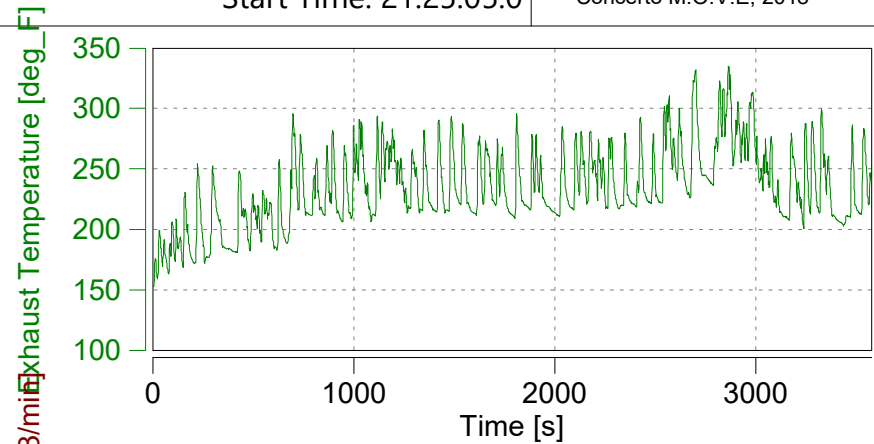
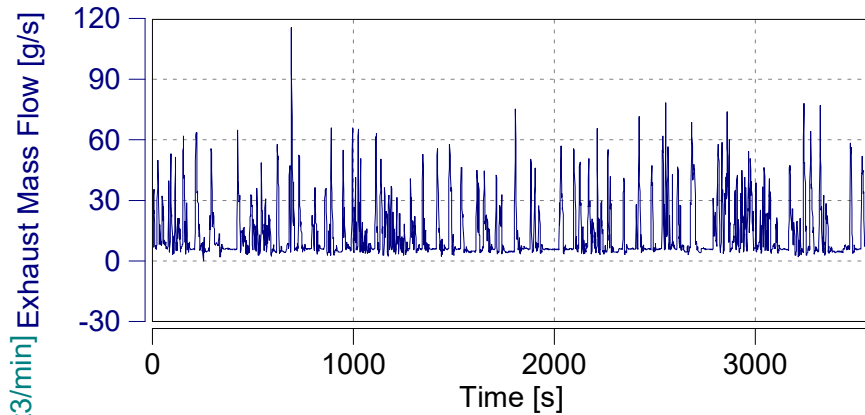
'City'

Start Date: 07/22/2019

Start Time: 21:25:05.0

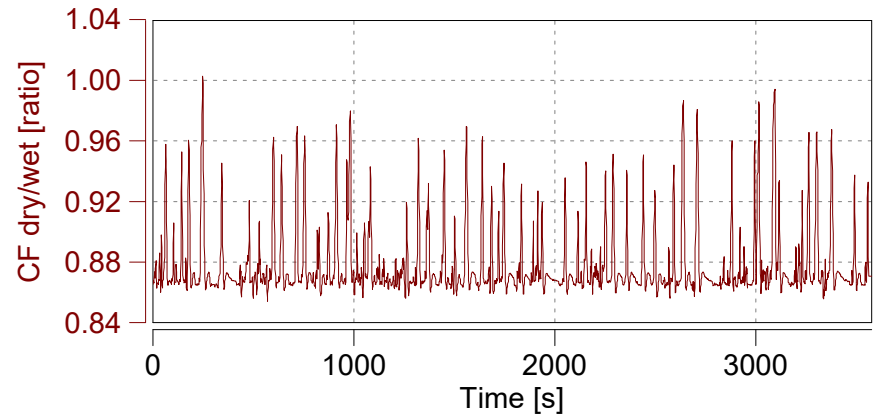
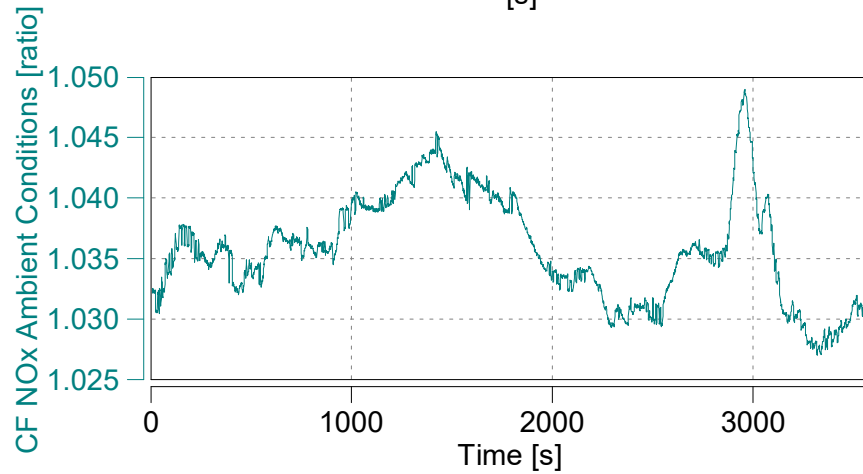
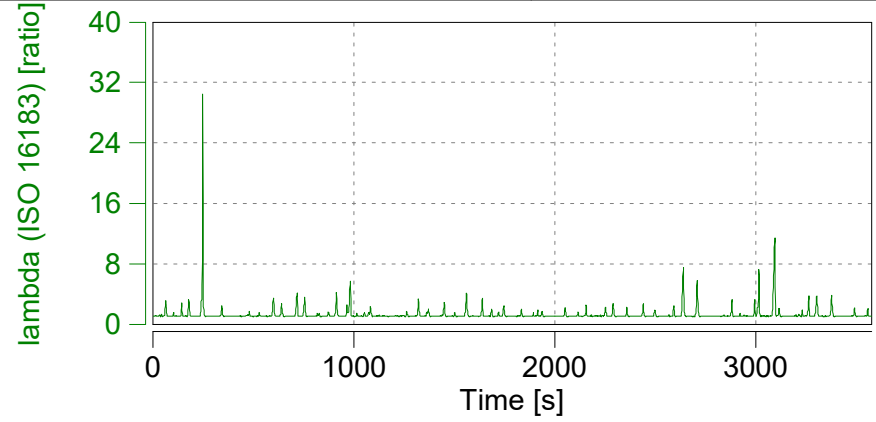
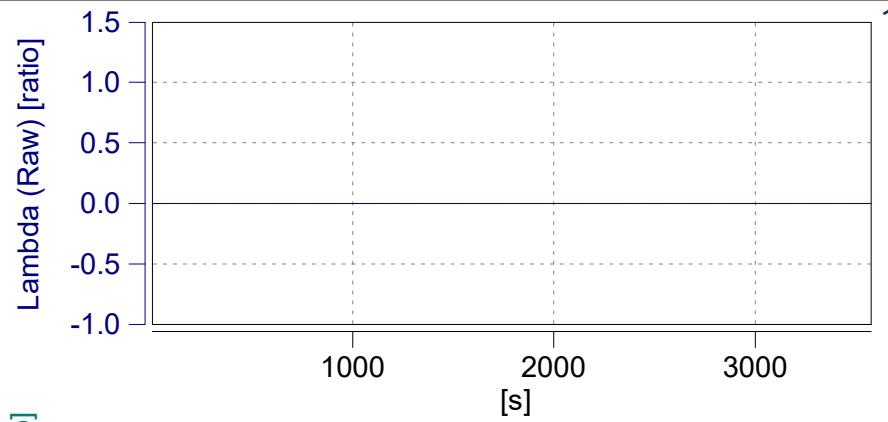


Concerto M.O.V.E., 2018



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



Concerto Version: 480 Build 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)

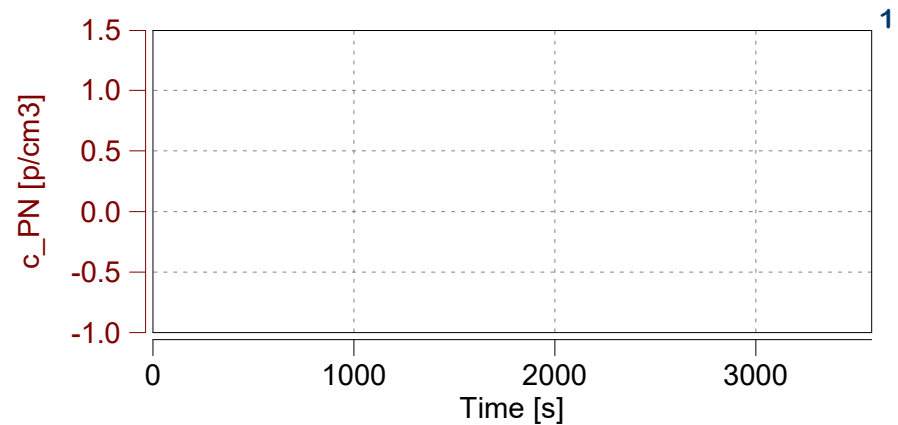
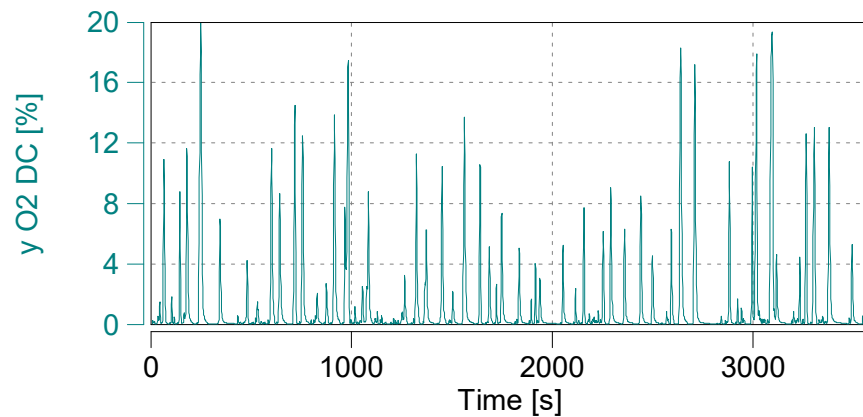
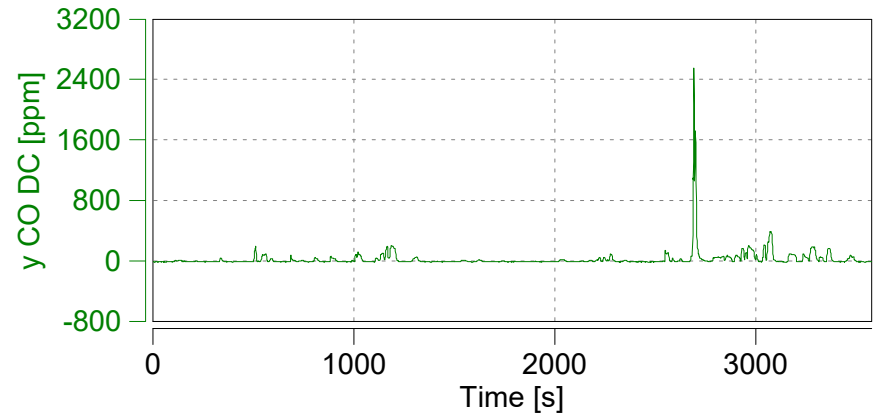
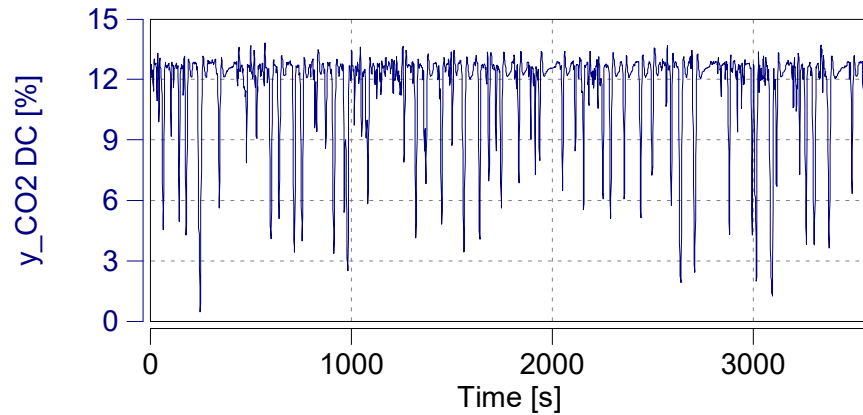
'City'

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)

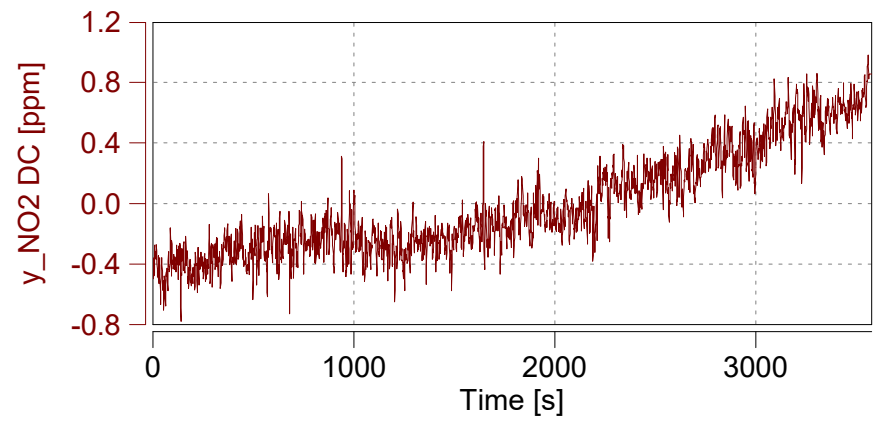
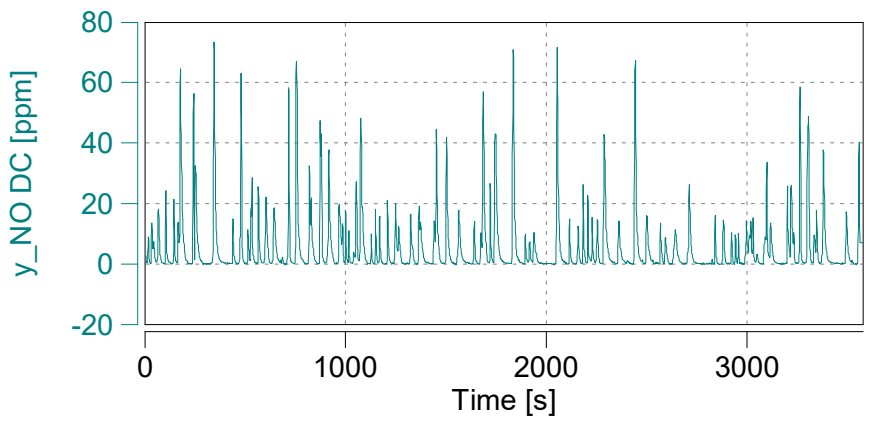
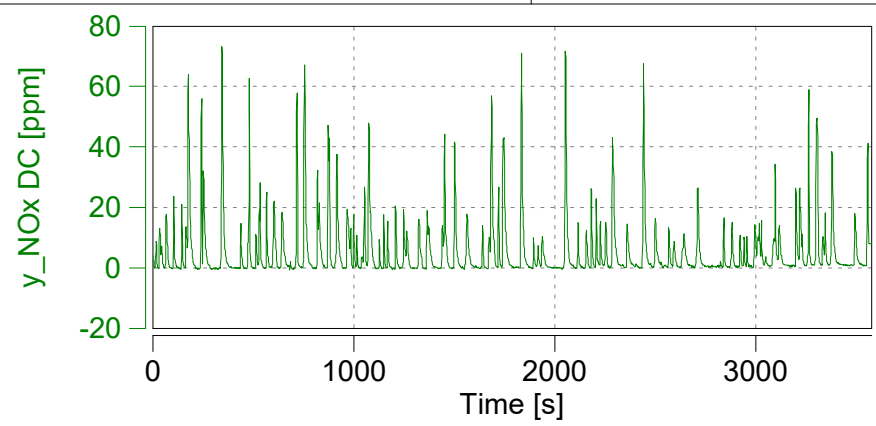
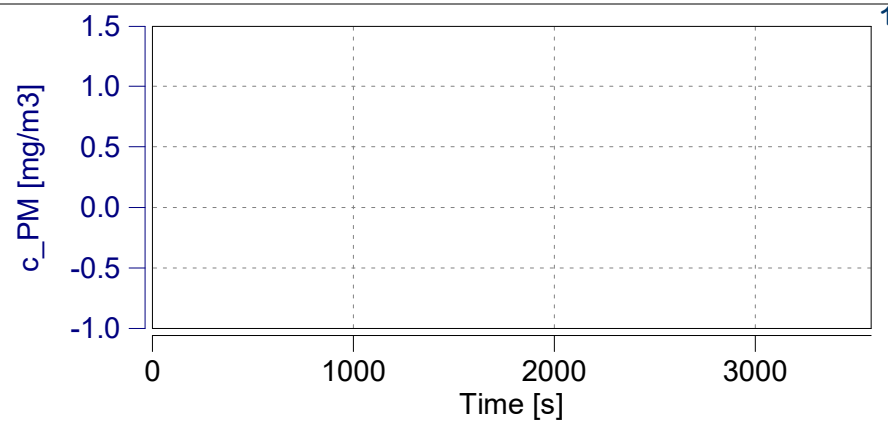
'City'

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

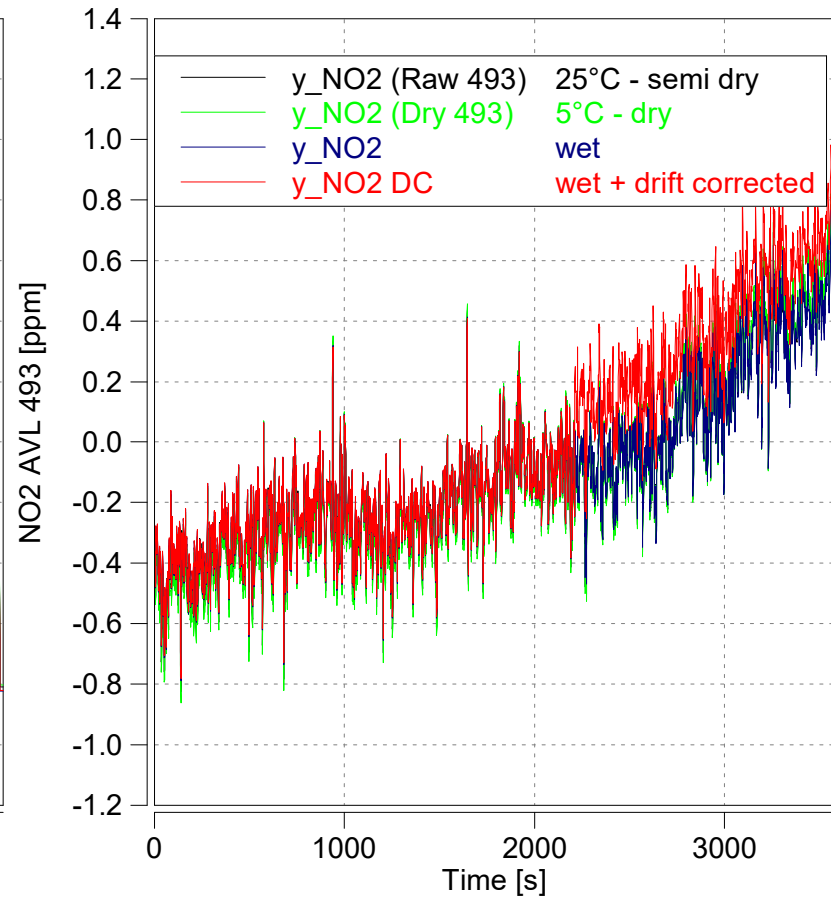
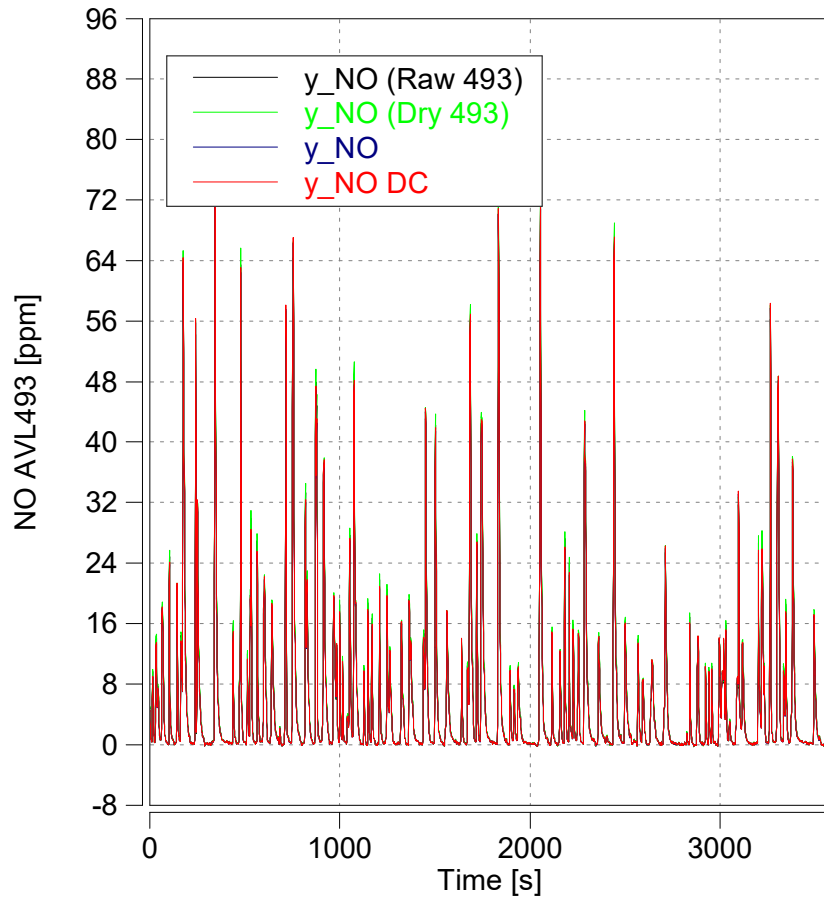
Vehicle: Audi Q8 / 3.0 L

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.

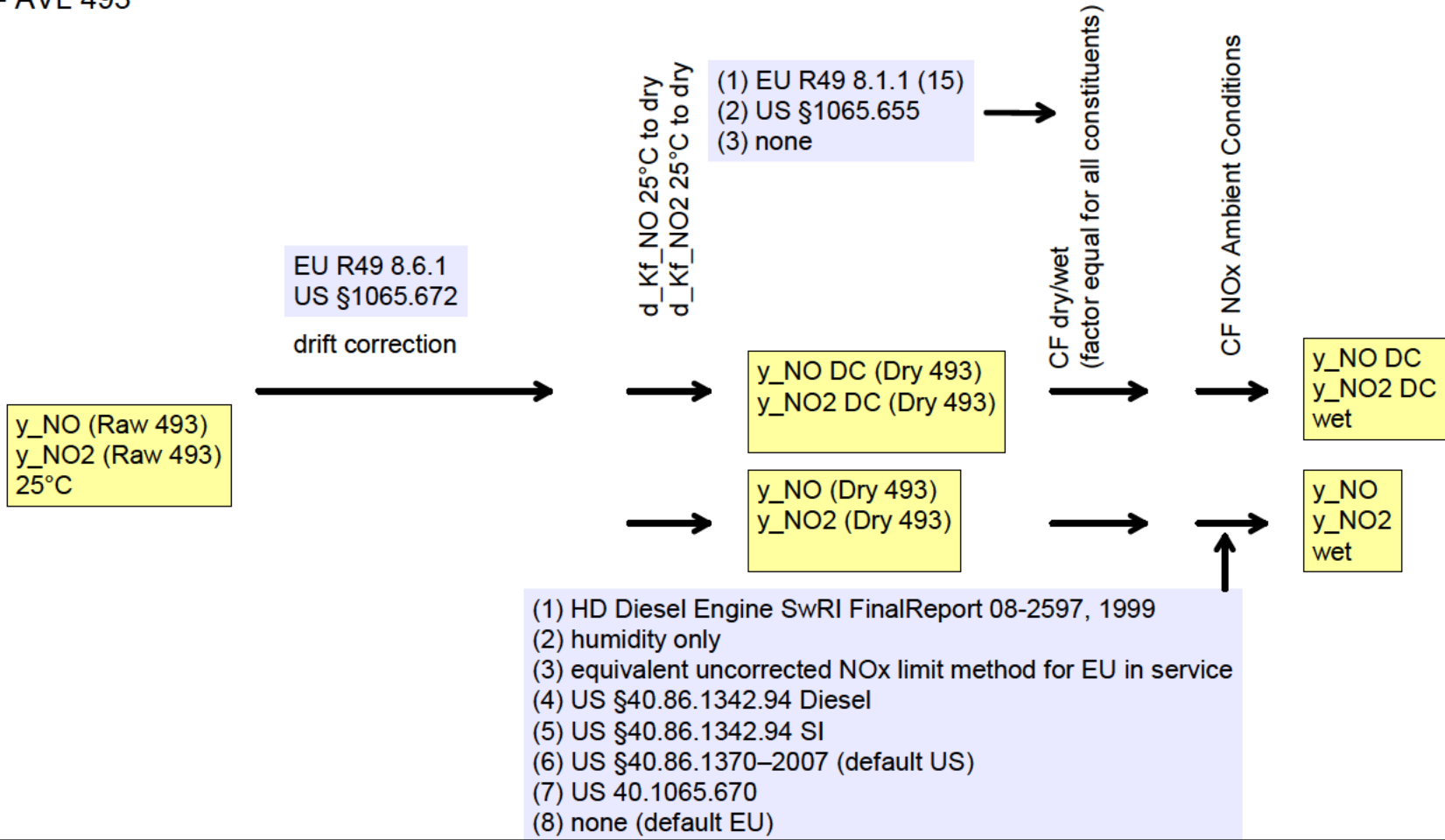


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

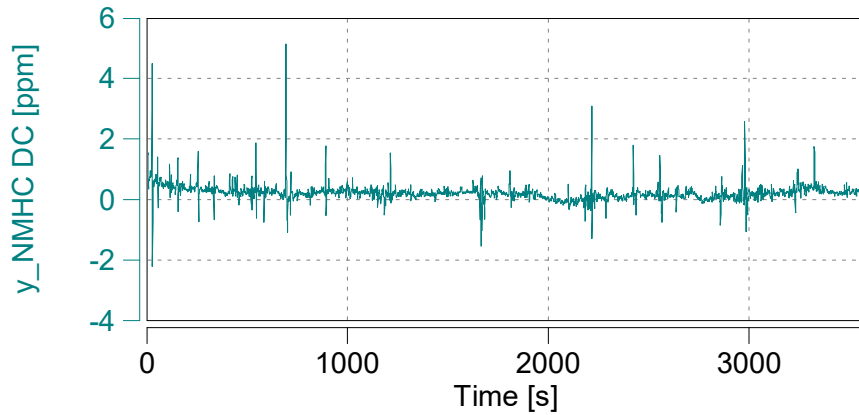
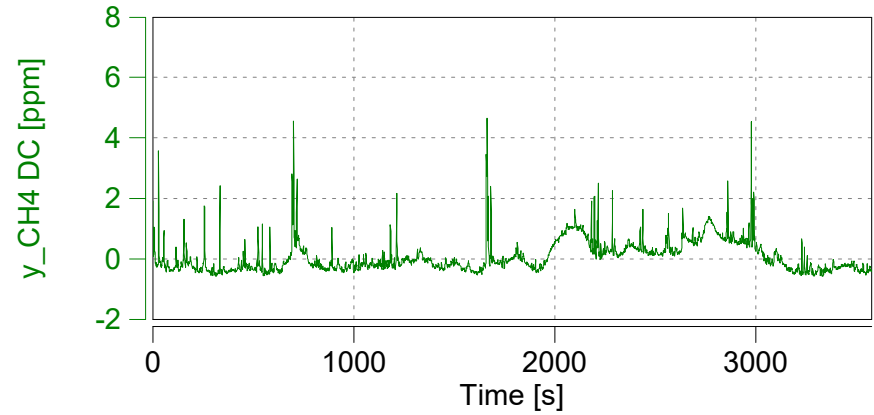
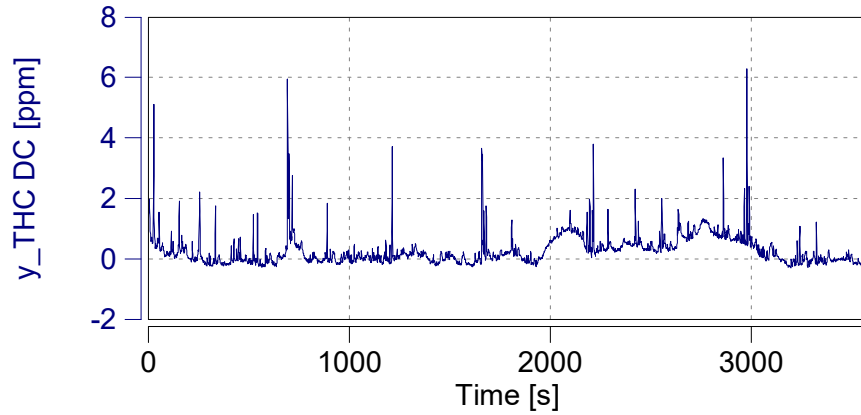
'City'

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

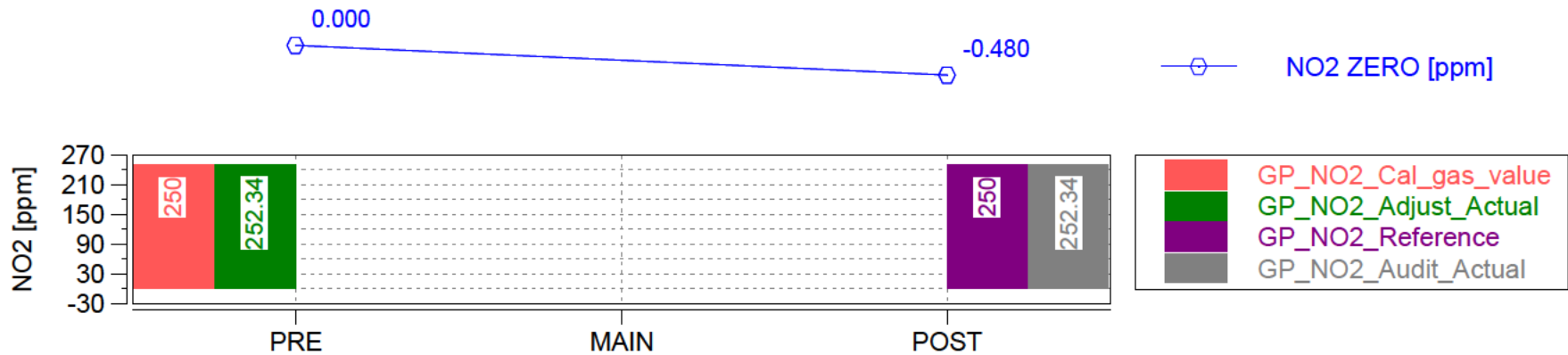
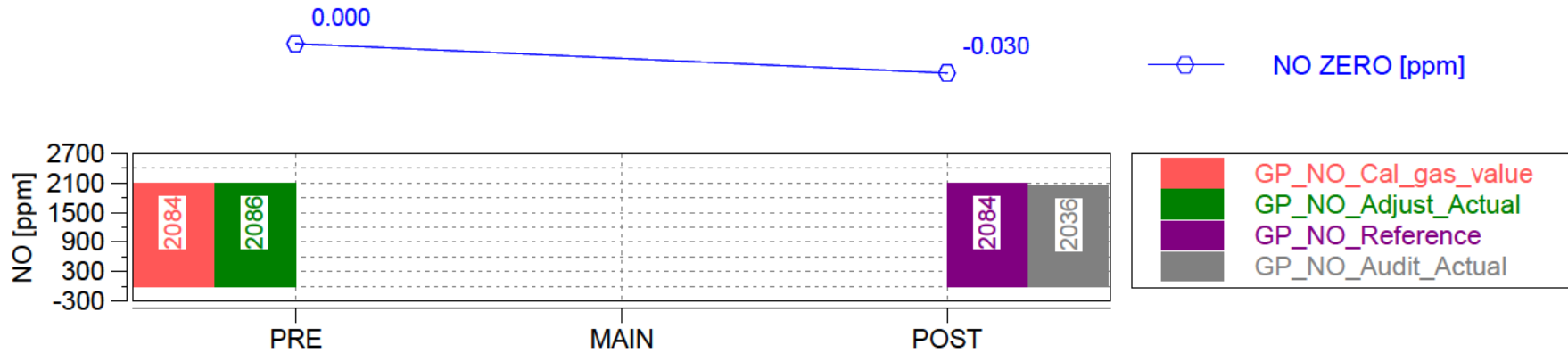
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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

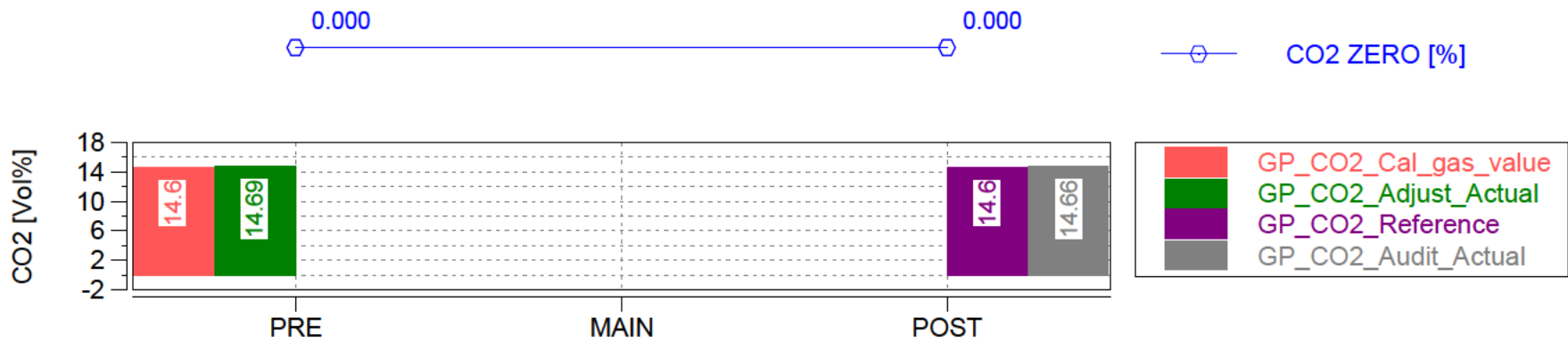
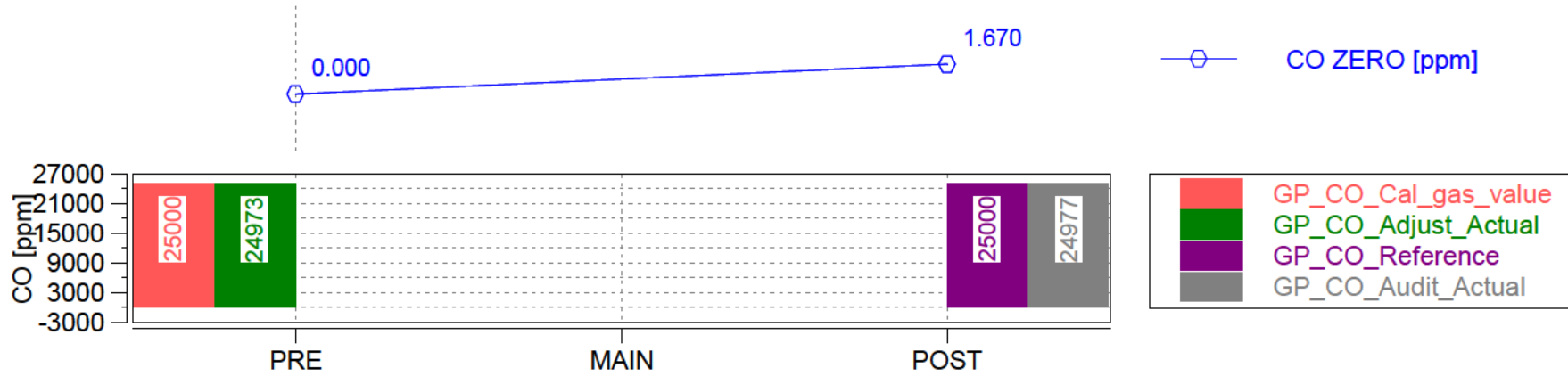
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

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

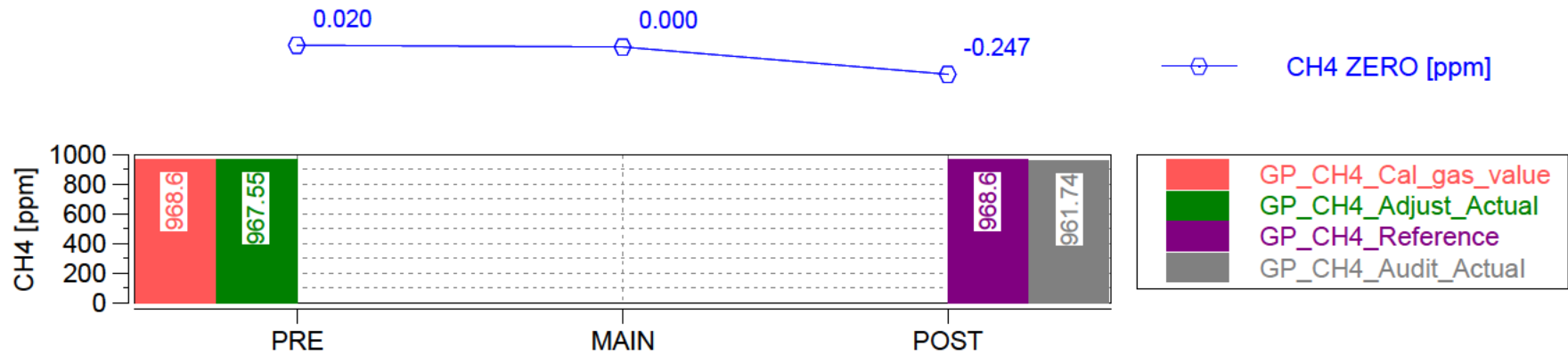
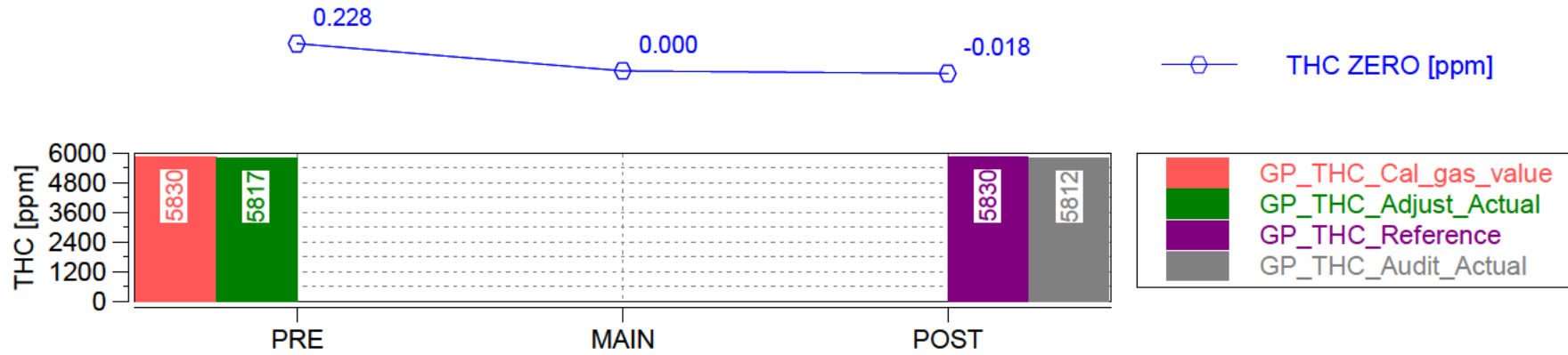
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Vehicle: Audi Q8 / 3.0 L

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
			ave CO2 DC	12.15465	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	3.69393	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)	4.88	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	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 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	0.00701	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.73	gall	tot NMHC DC	0.00649	g			
Trip Fuel Cons. Volume US (ac)	1.71	gall	tot CH4 DC	0.00016	g	DS CO2 DC	391.13672	g/mi
			tot CO DC	11.63216	g	DS CO DC	0.30960	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	14695.47479	g	DS THC DC	0.00019	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.16277	g	DS NMHC DC	0.00017	g/mi
Trip Fuel Economy EU (ac)	21.77	mpg_US	tot NO2 DC	0.08891	g	DS CH4 DC	0.00000	g/mi
Trip Fuel Economy US (ac)	21.99	mpg_US	tot NOx DC	0.25168	g	DS NO DC (d)	0.00433	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00237	g/mi
Trip Av. Eng. Speed	1506.58	rpm	tot Soot meas	n/a	g	DS NOx DC	0.00670	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	76.48	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 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	80.20	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	50.65	%	Trip Av. Veh. Speed	49.94694	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	5.24372	%	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

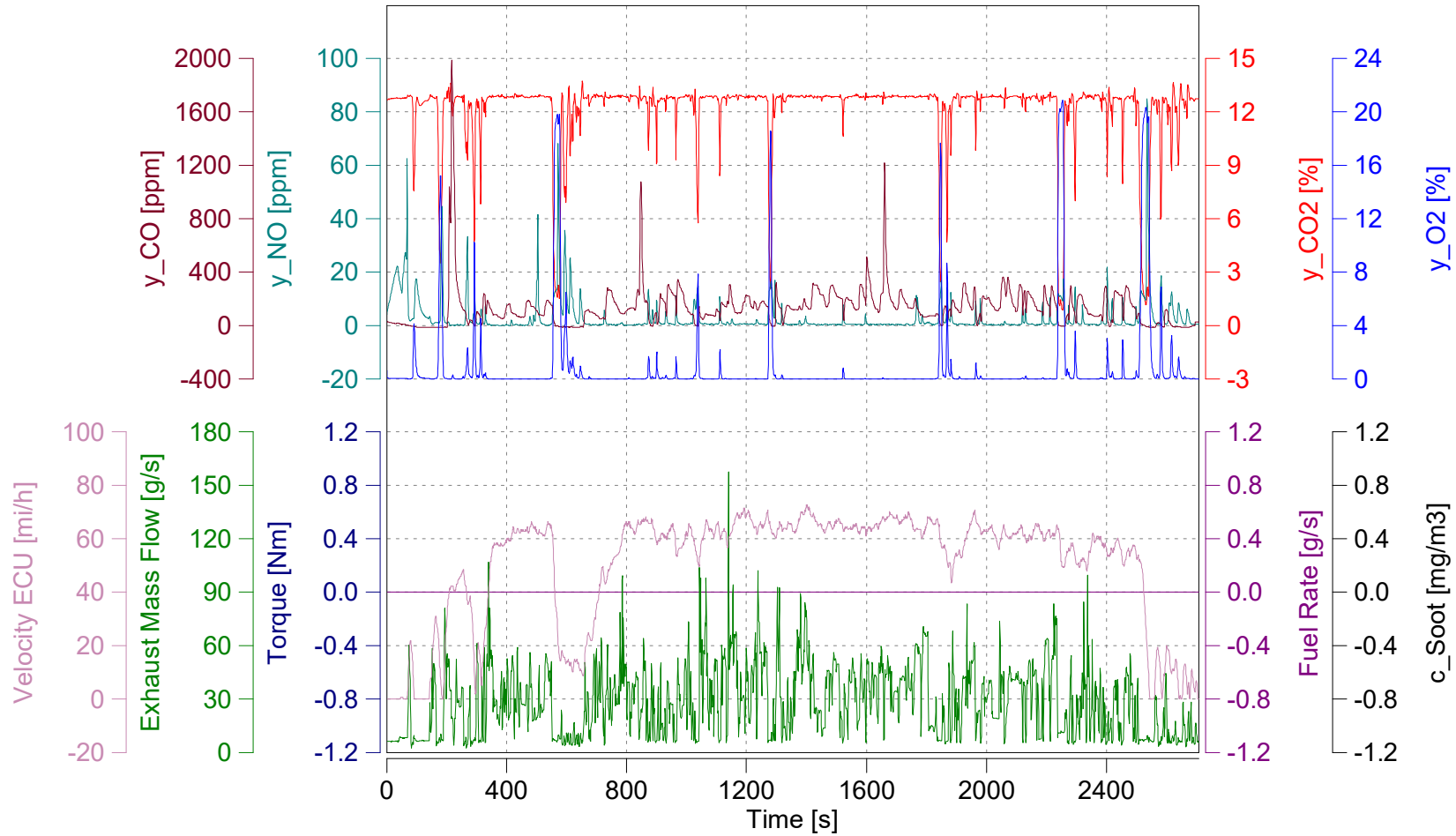
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: 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

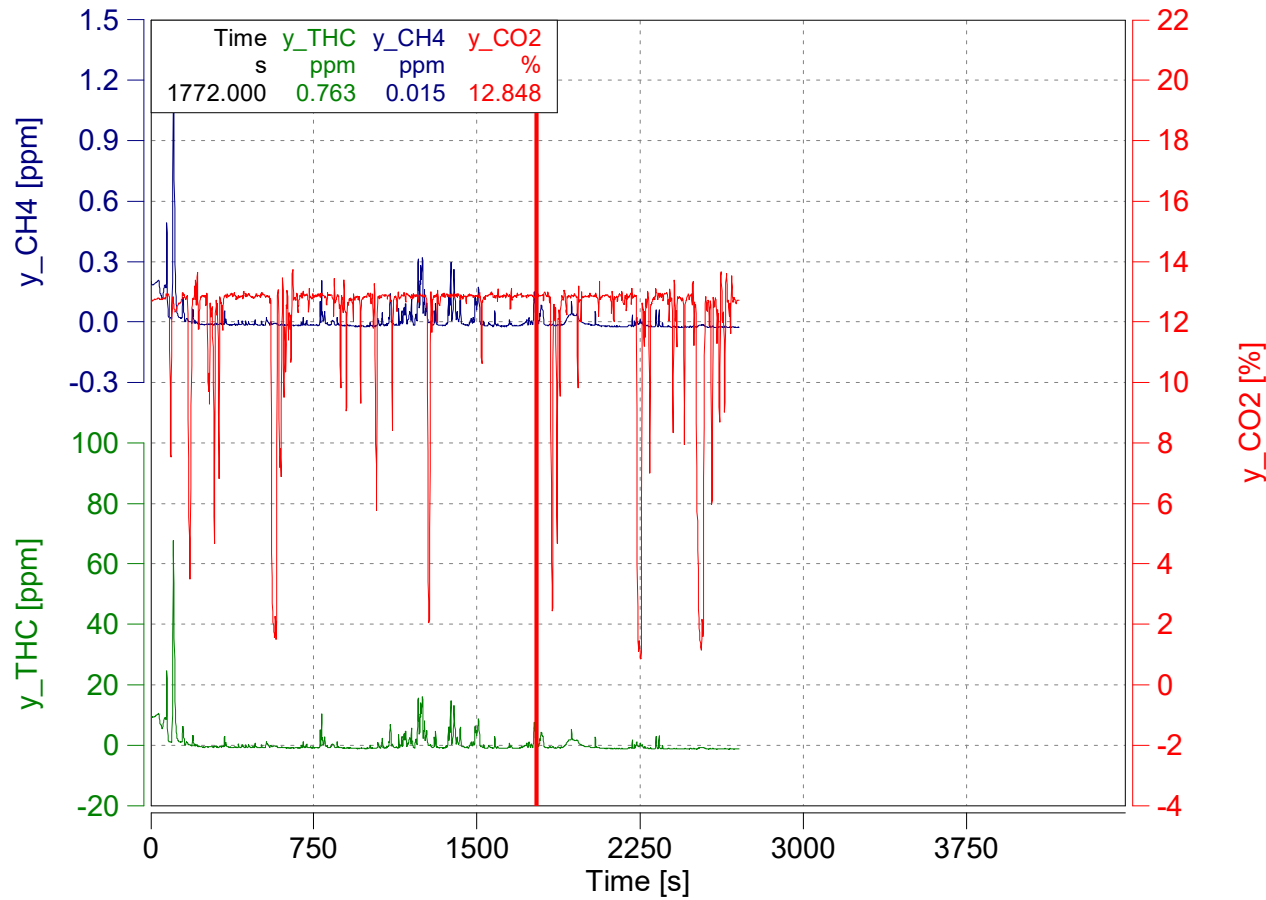
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

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

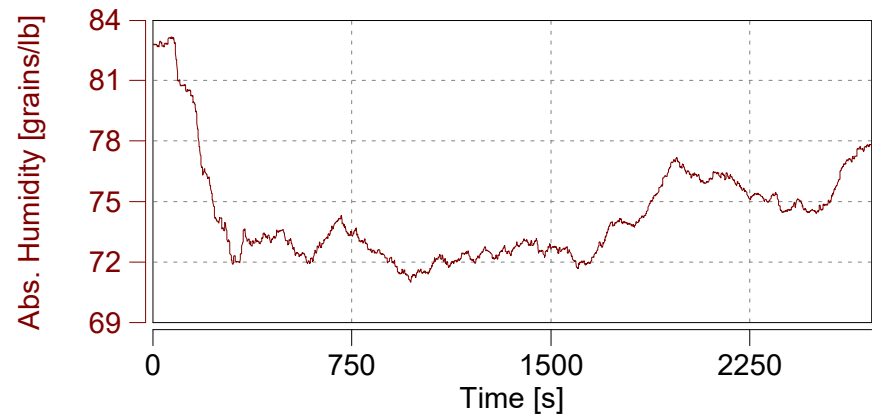
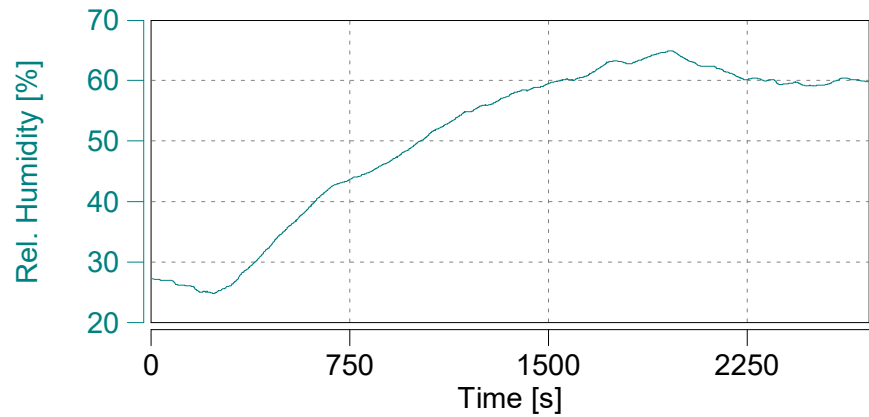
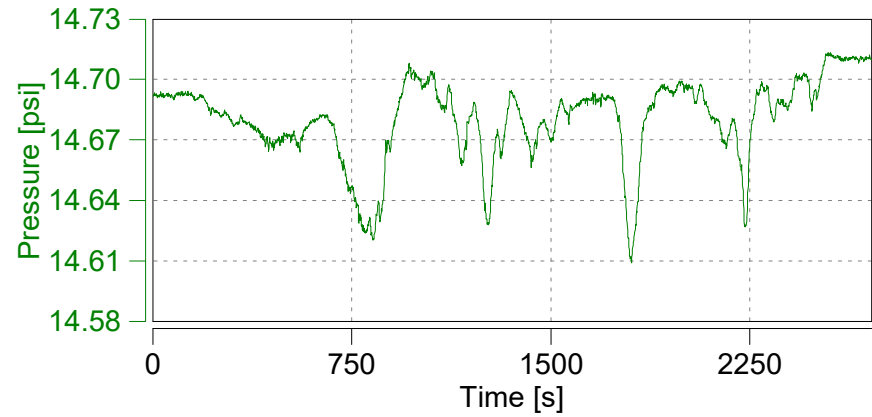
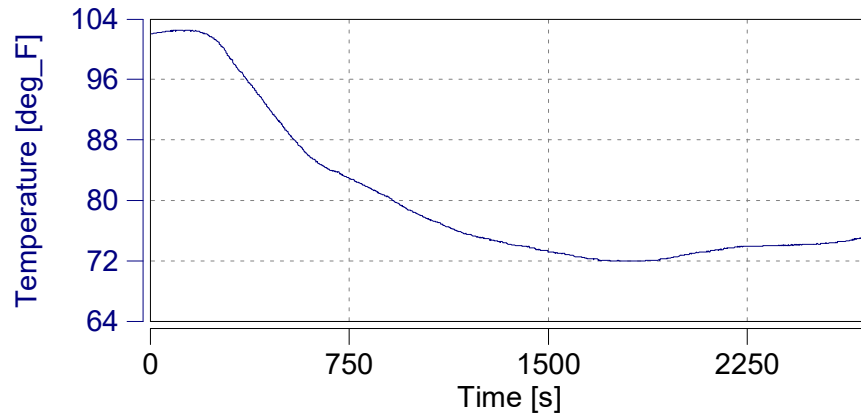
'Highway'

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

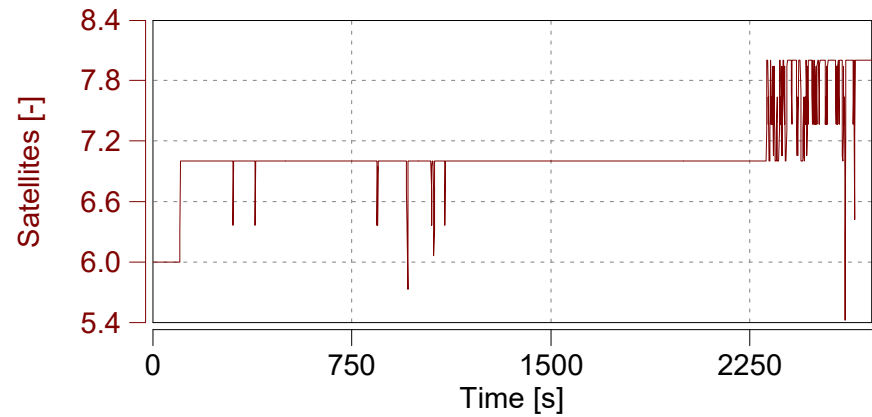
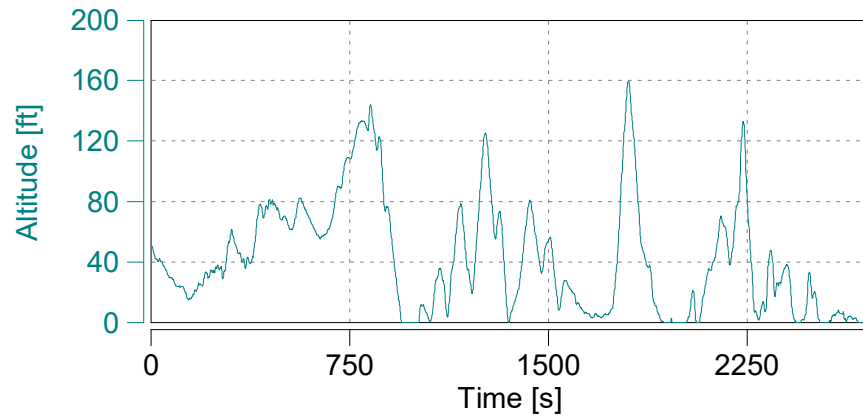
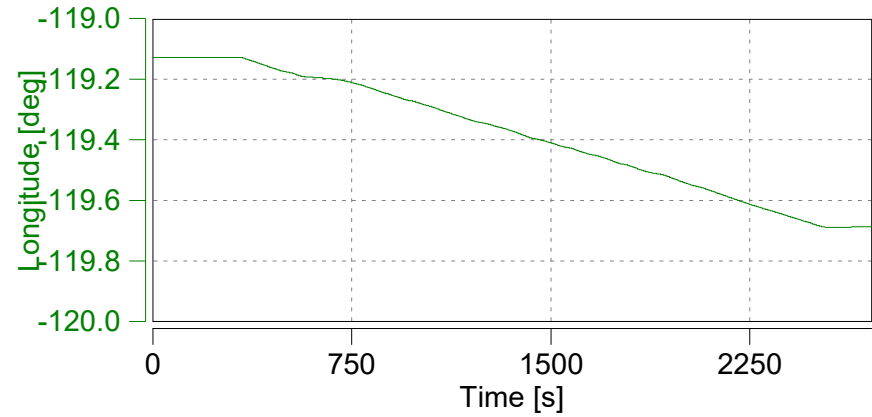
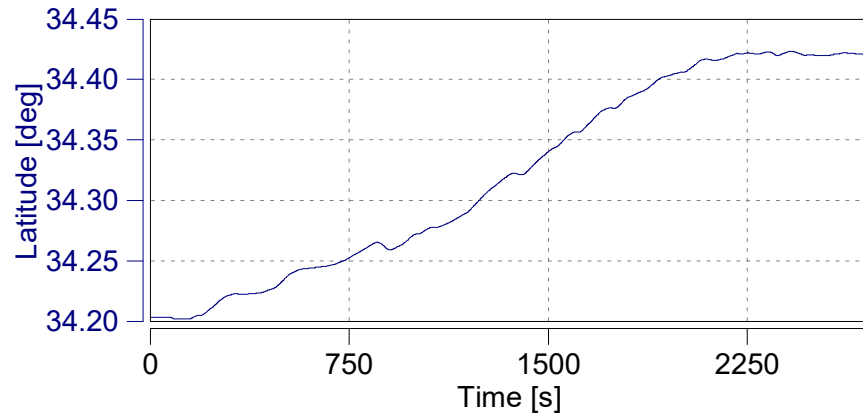
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0

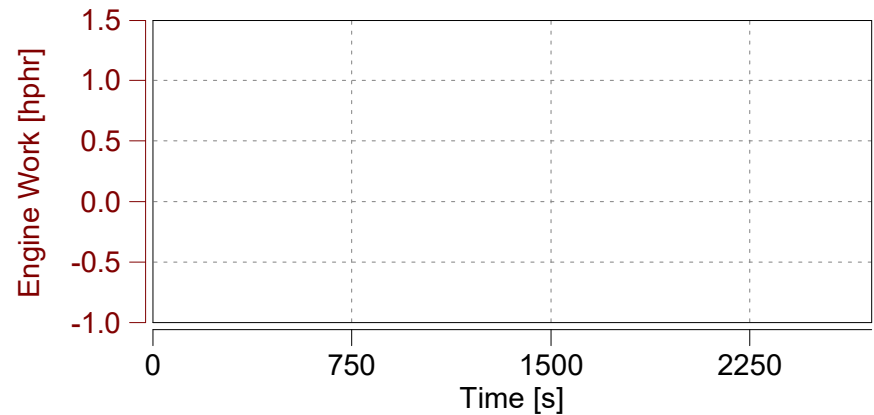
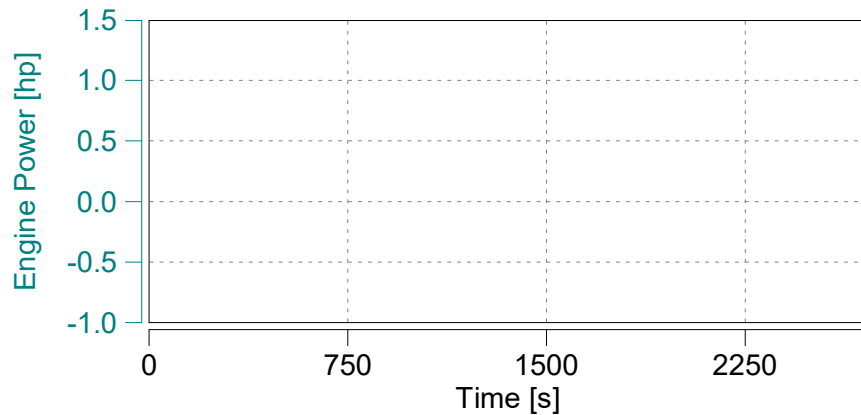
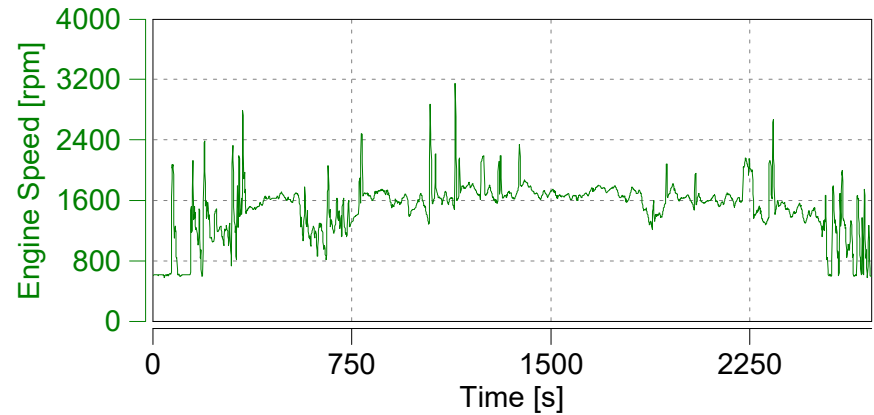
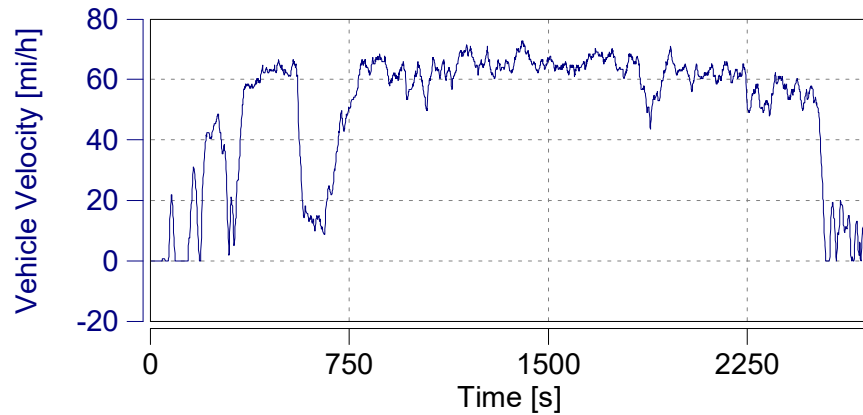


Concerto M.O.V.E., 2018



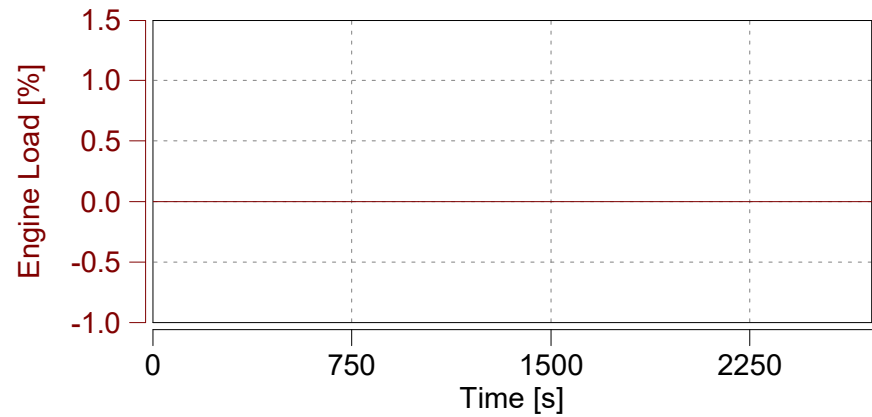
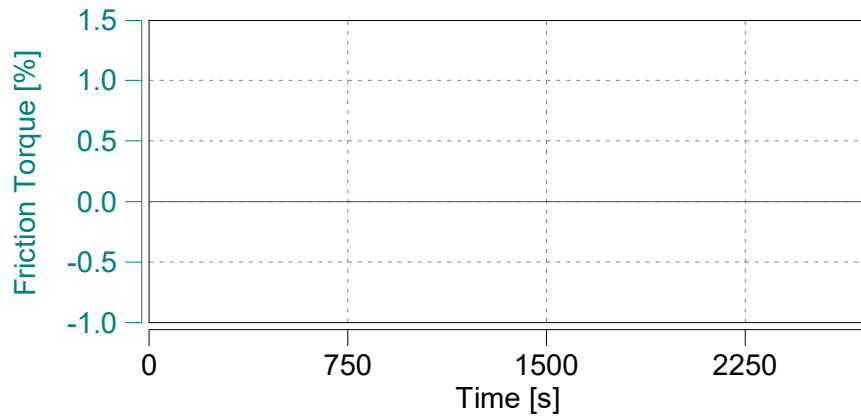
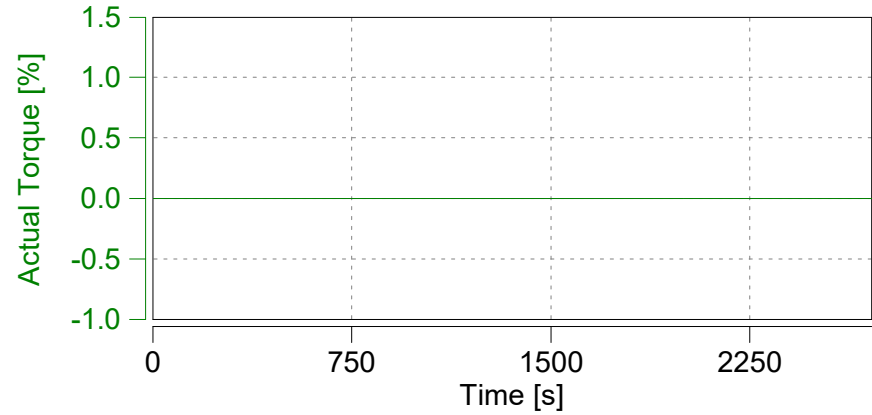
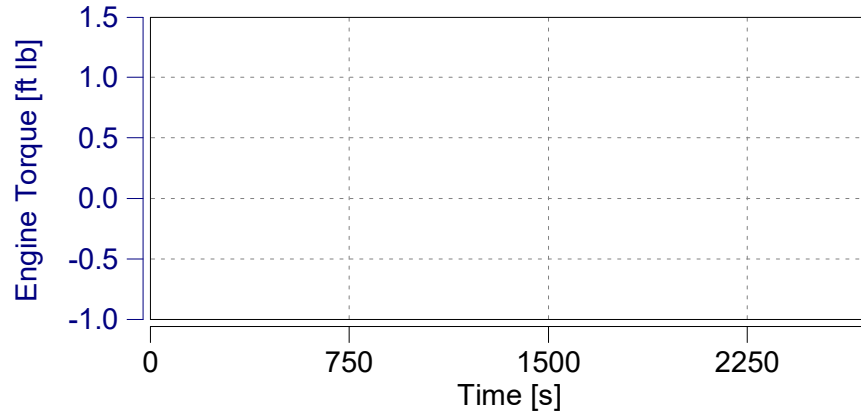
Concerto Version: 480 Build 316, Serial Number: 1120
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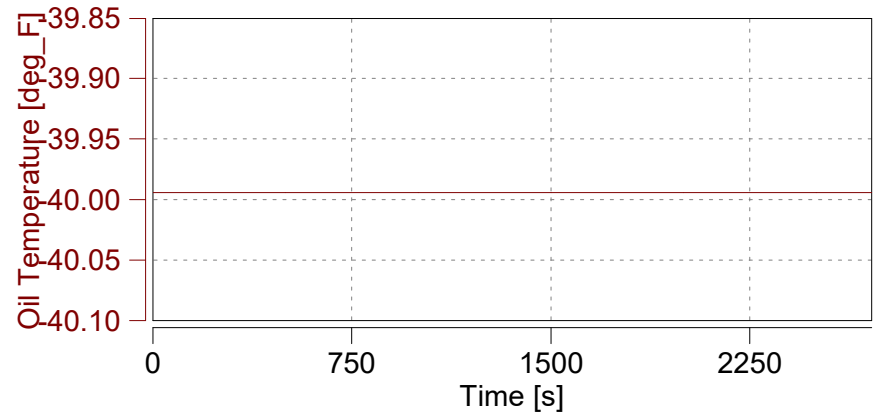
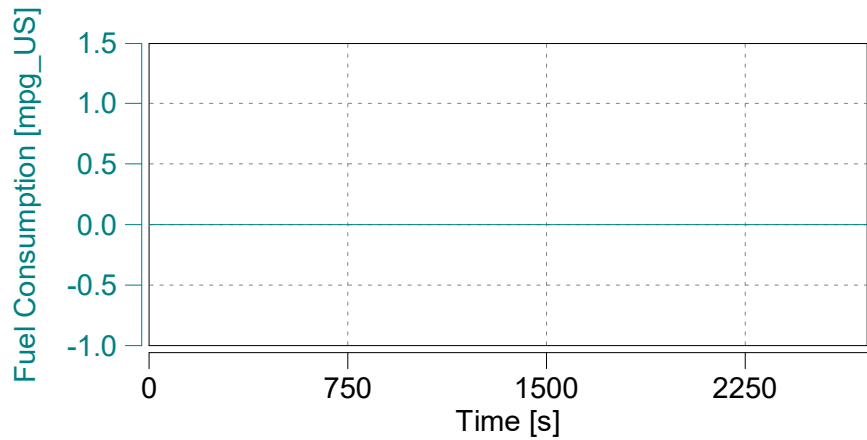
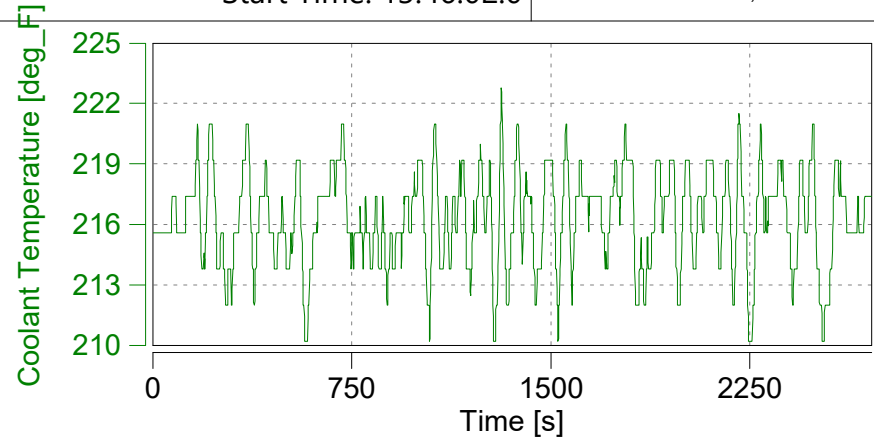
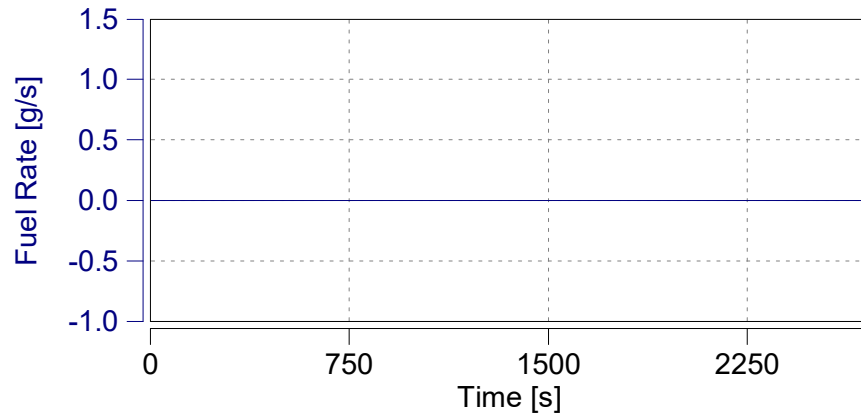
Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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)

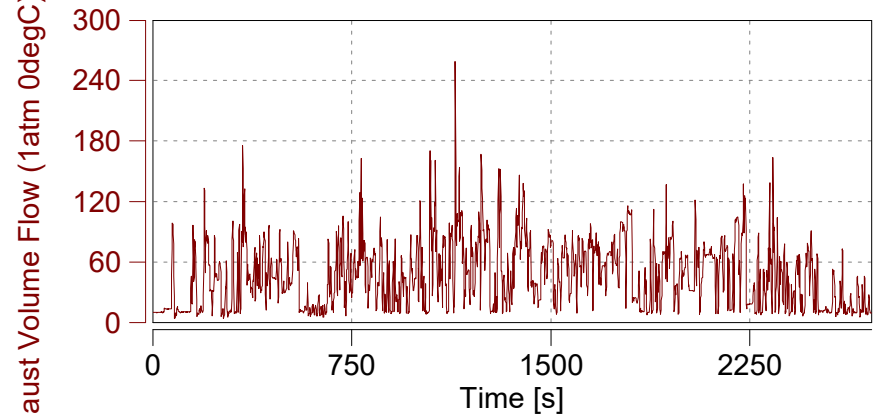
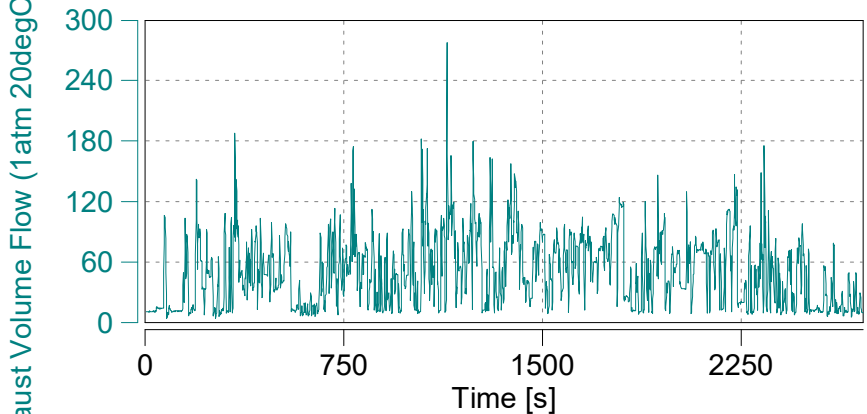
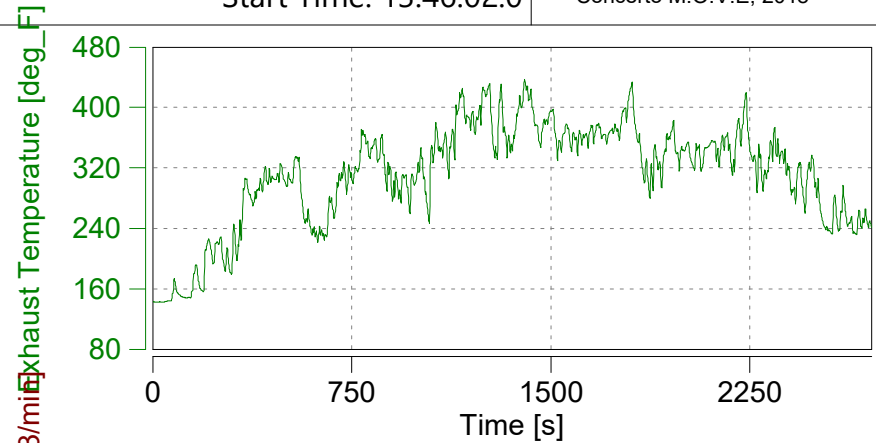
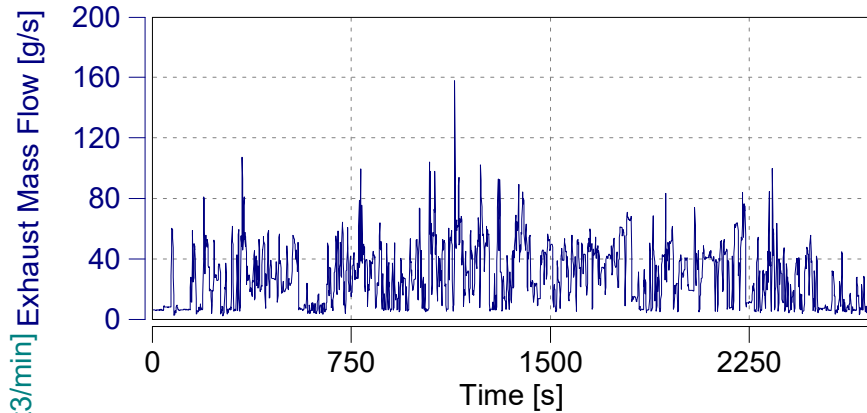
'Highway'

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)

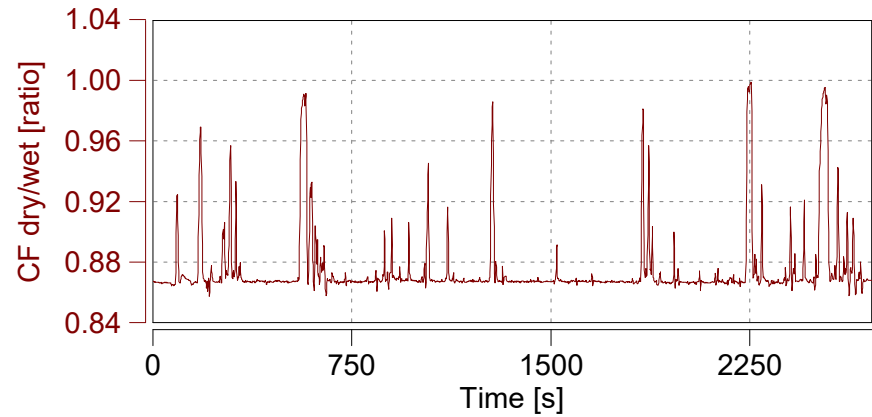
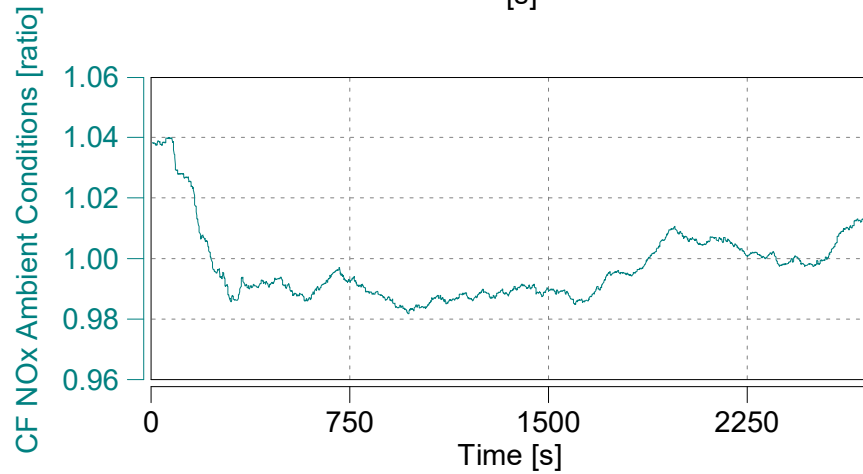
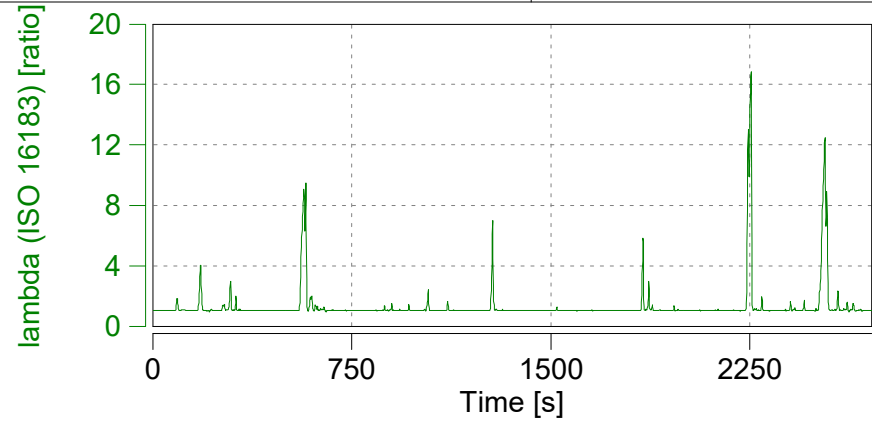
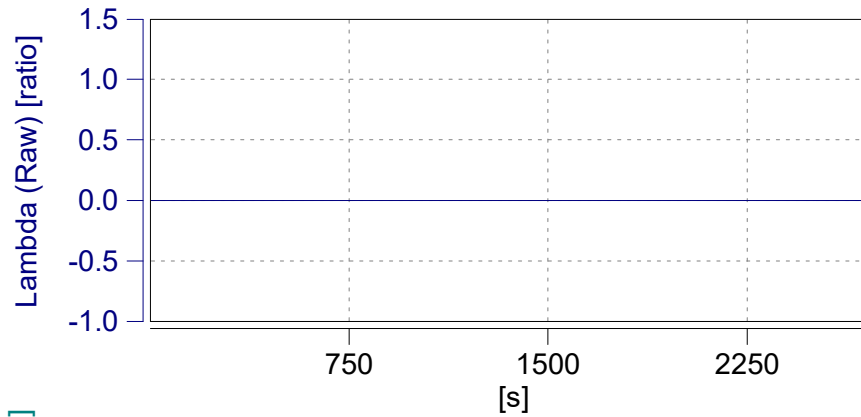
'Highway'

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)

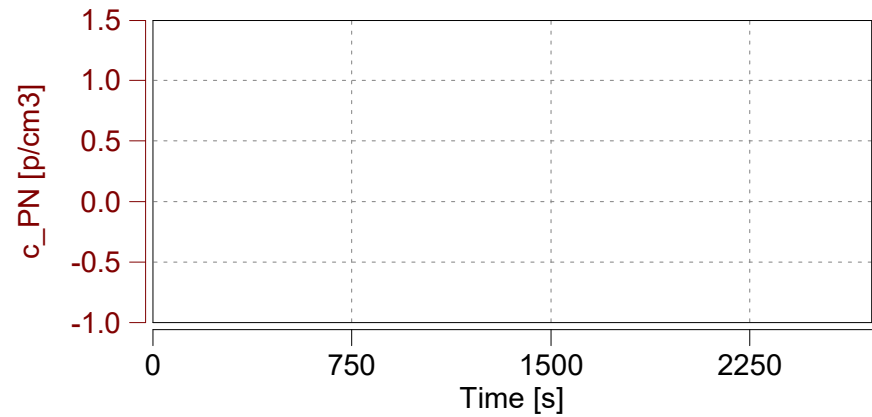
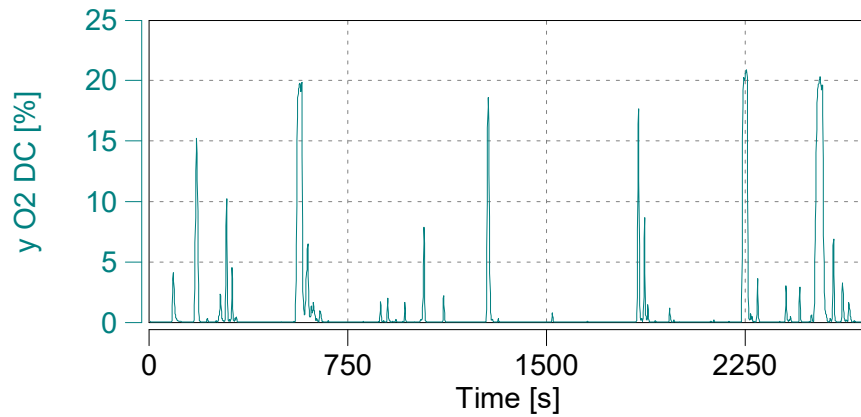
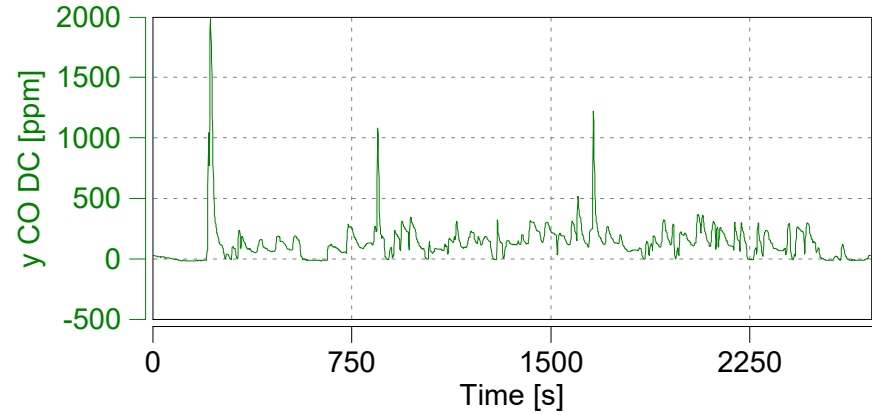
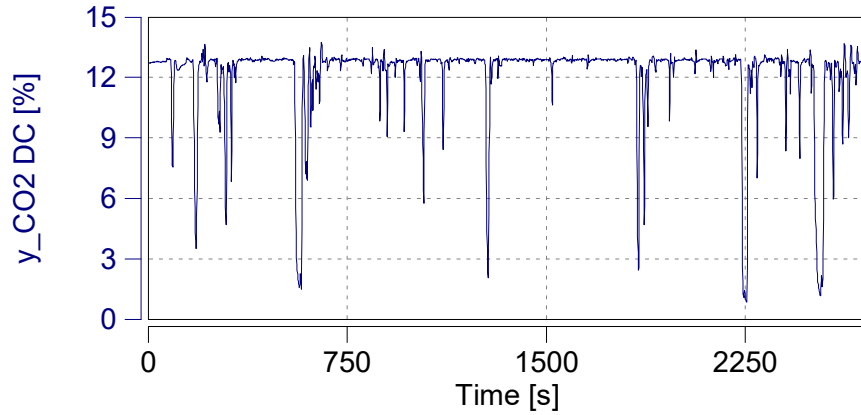
'Highway'

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)

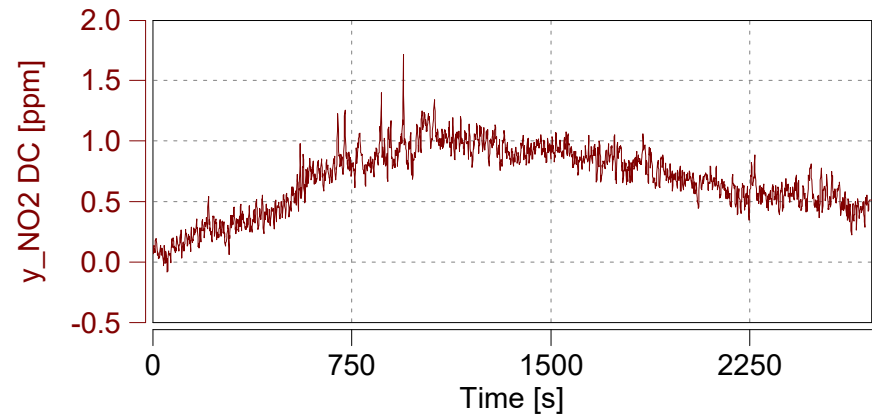
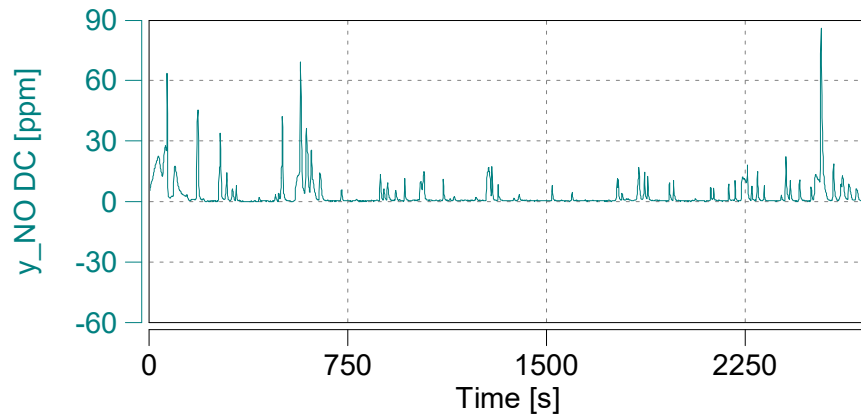
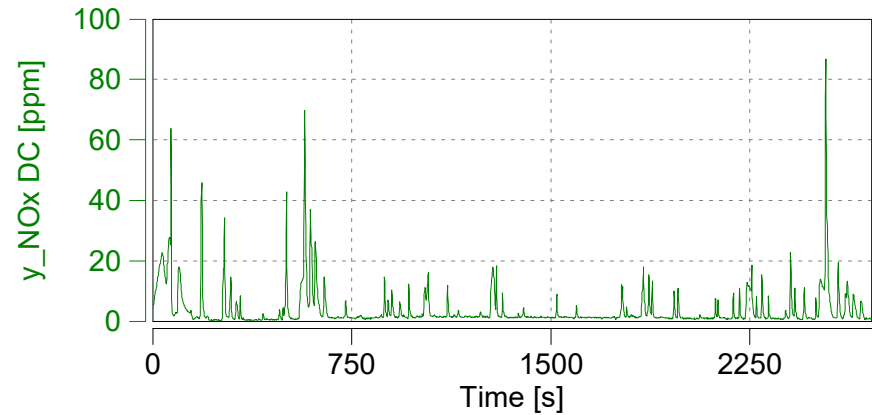
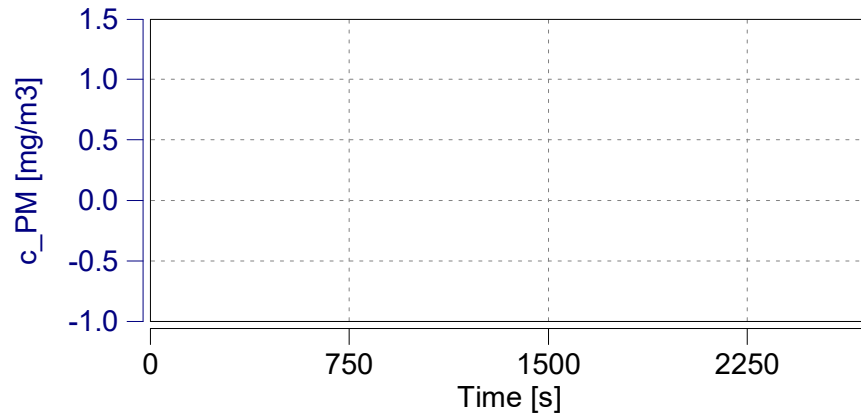
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0

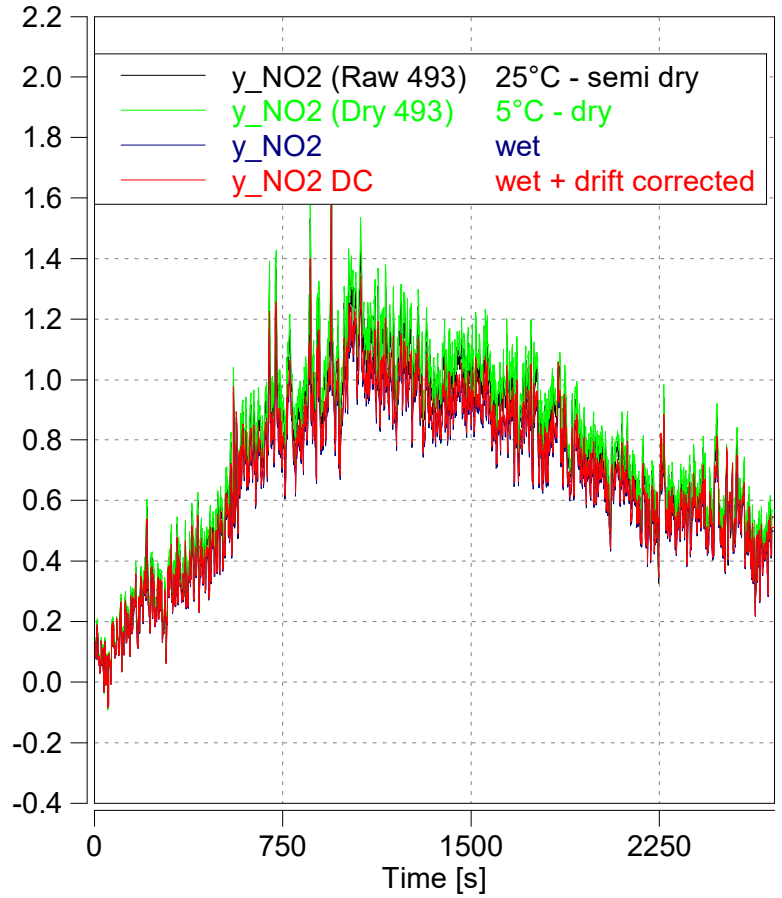
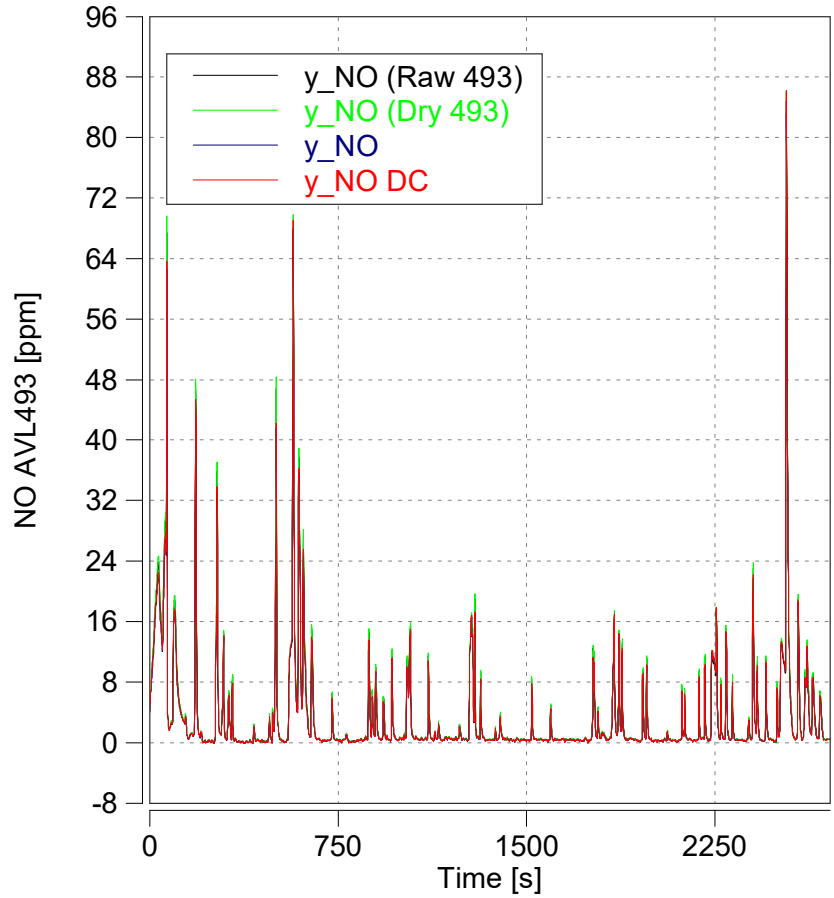


Concerto M.O.V.E., 2018



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

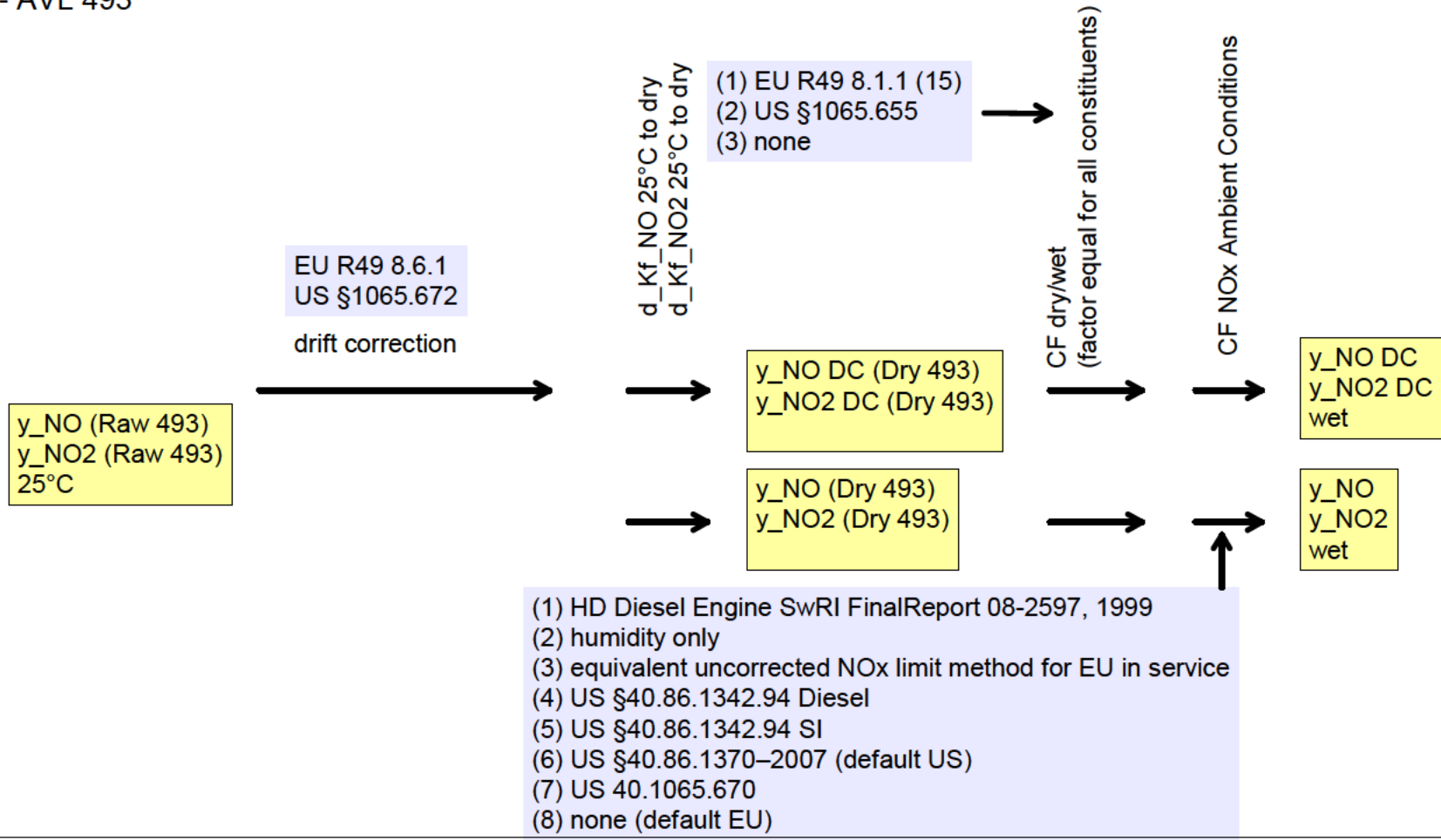


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

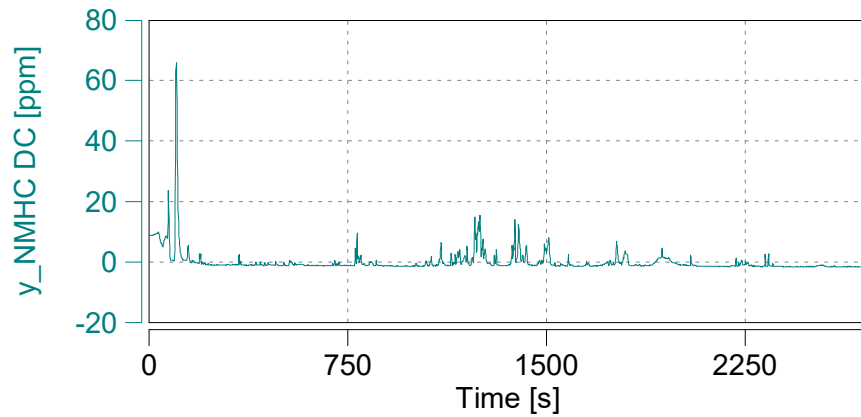
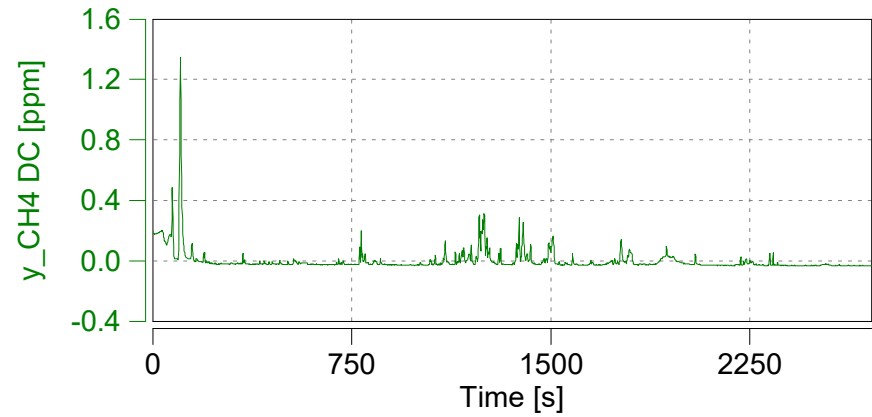
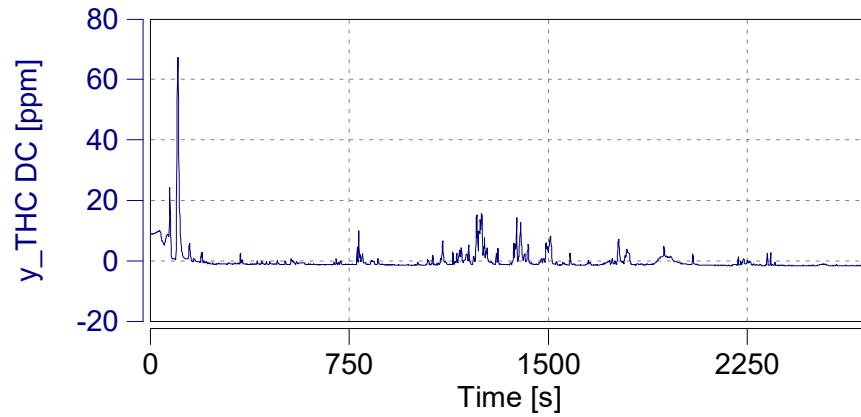
'Highway'

Start Date: 07/22/2019

Start Time: 13:46:02.0

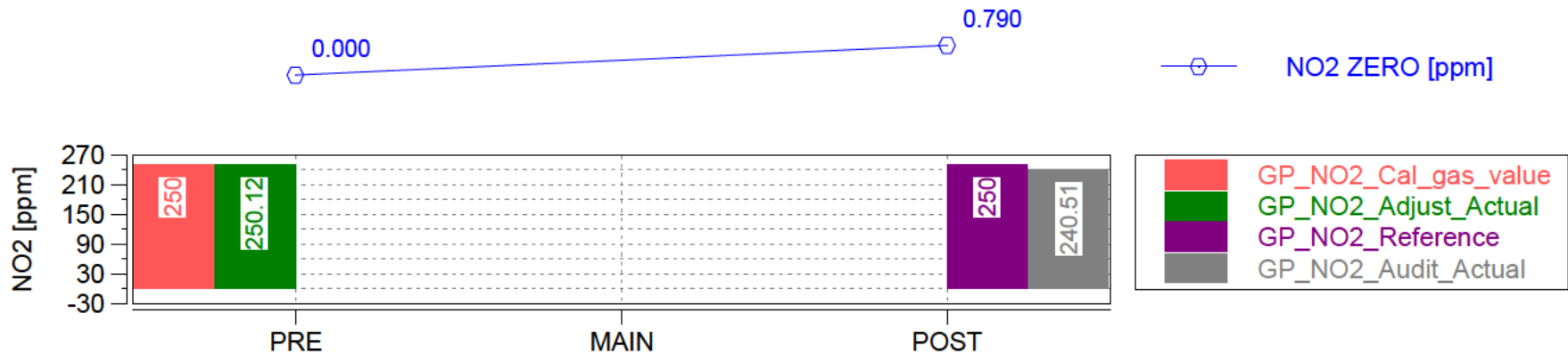
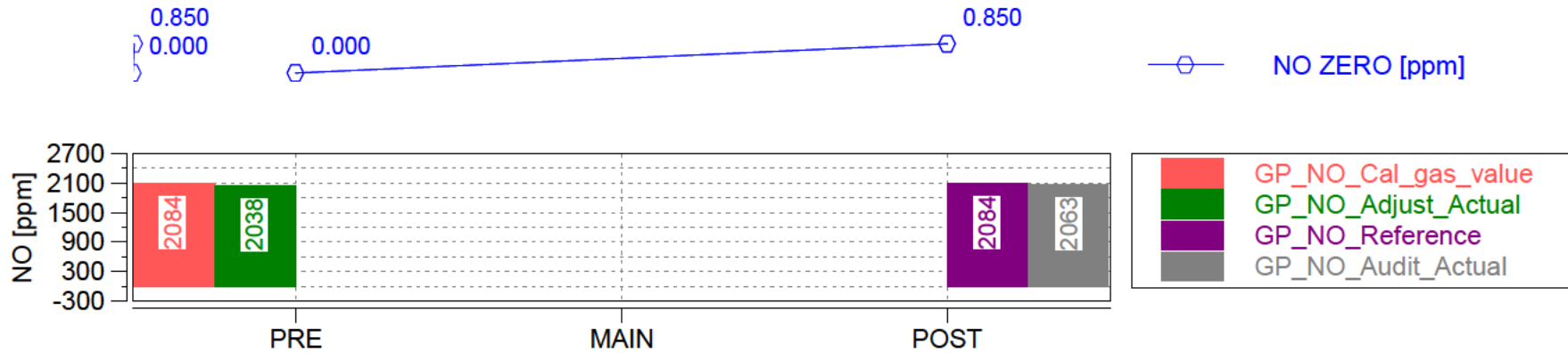


Concerto M.O.V.E., 2018



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

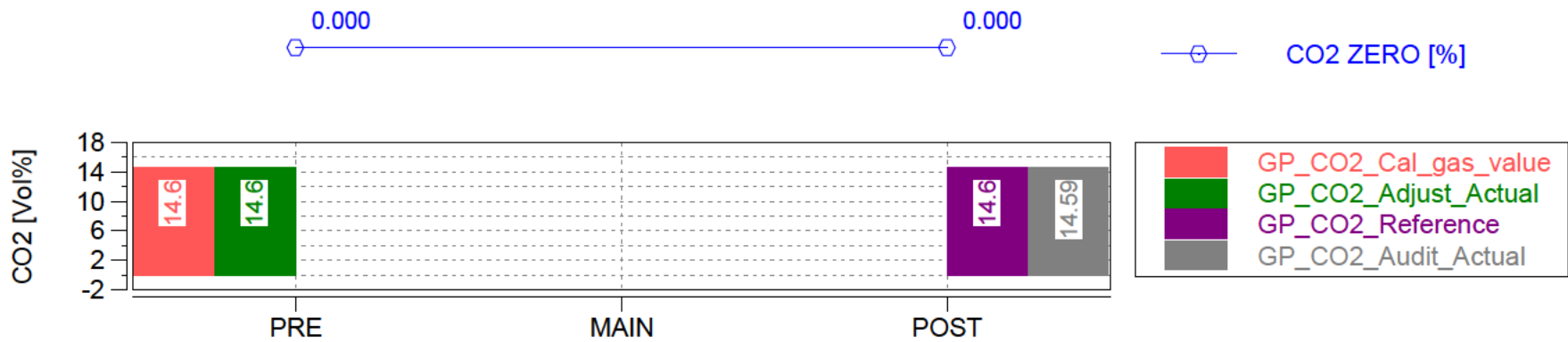
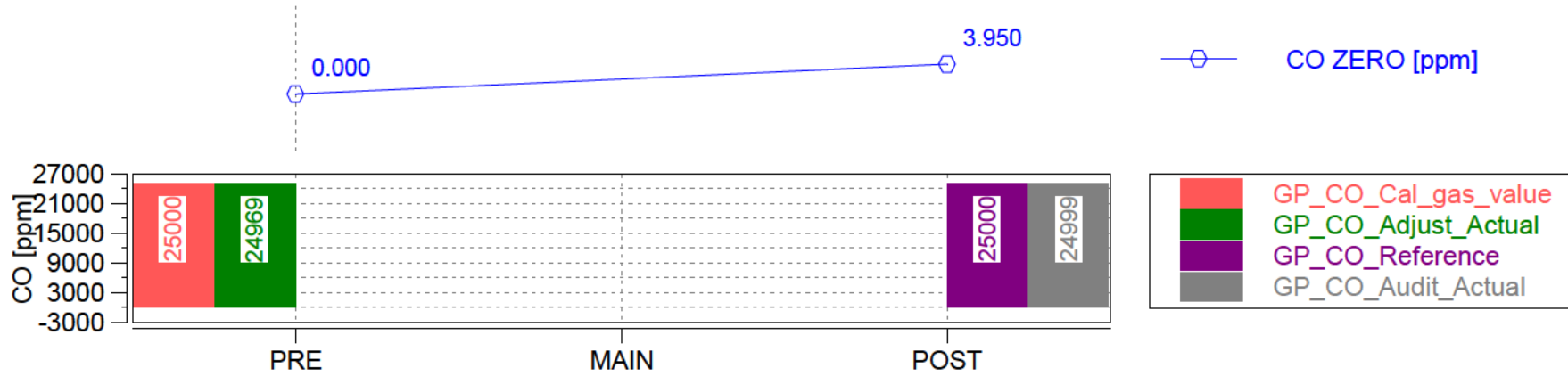
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Vehicle: Audi Q8 / 3.0L

Engine: /

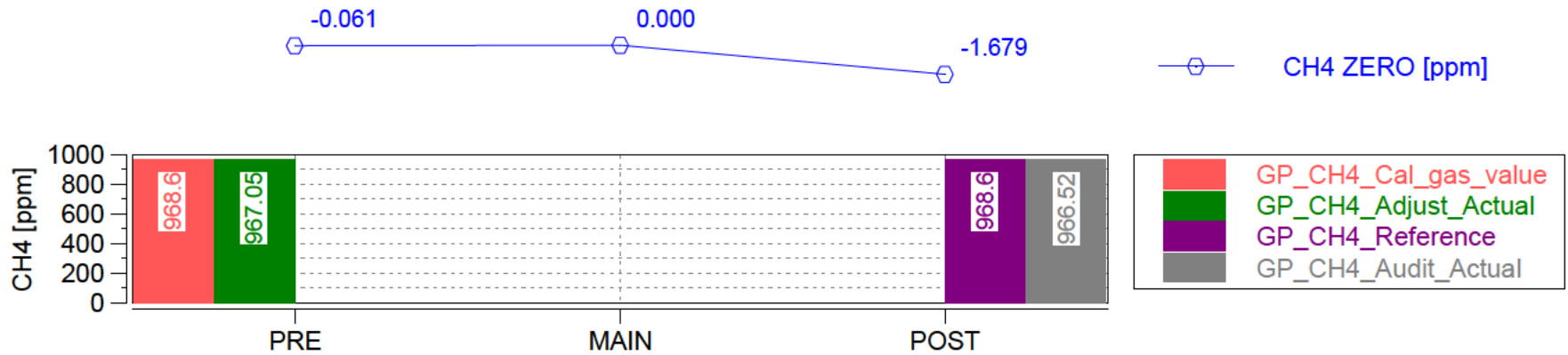
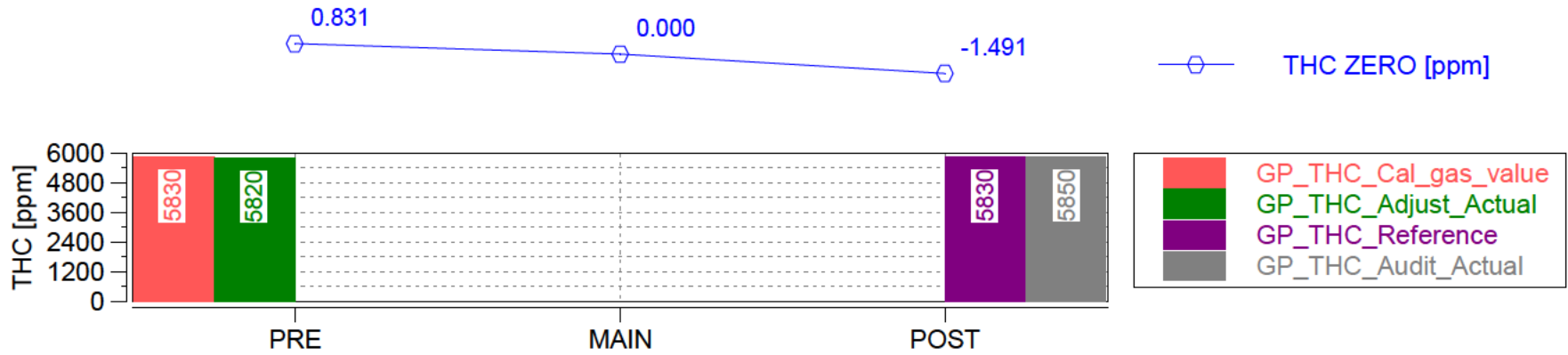
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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: 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

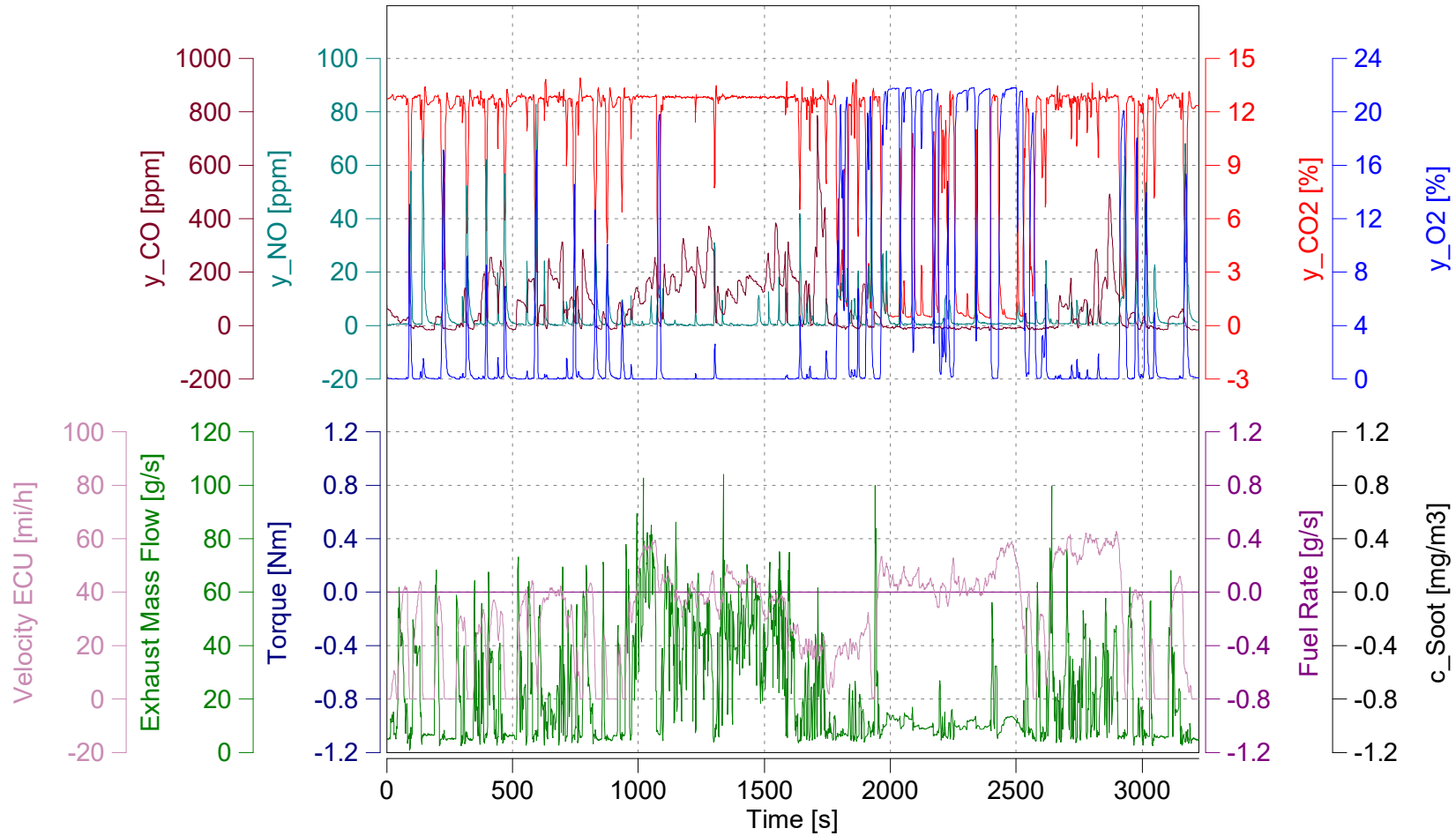
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Vehicle: Audi Q8 / 3.0L

Engine: /

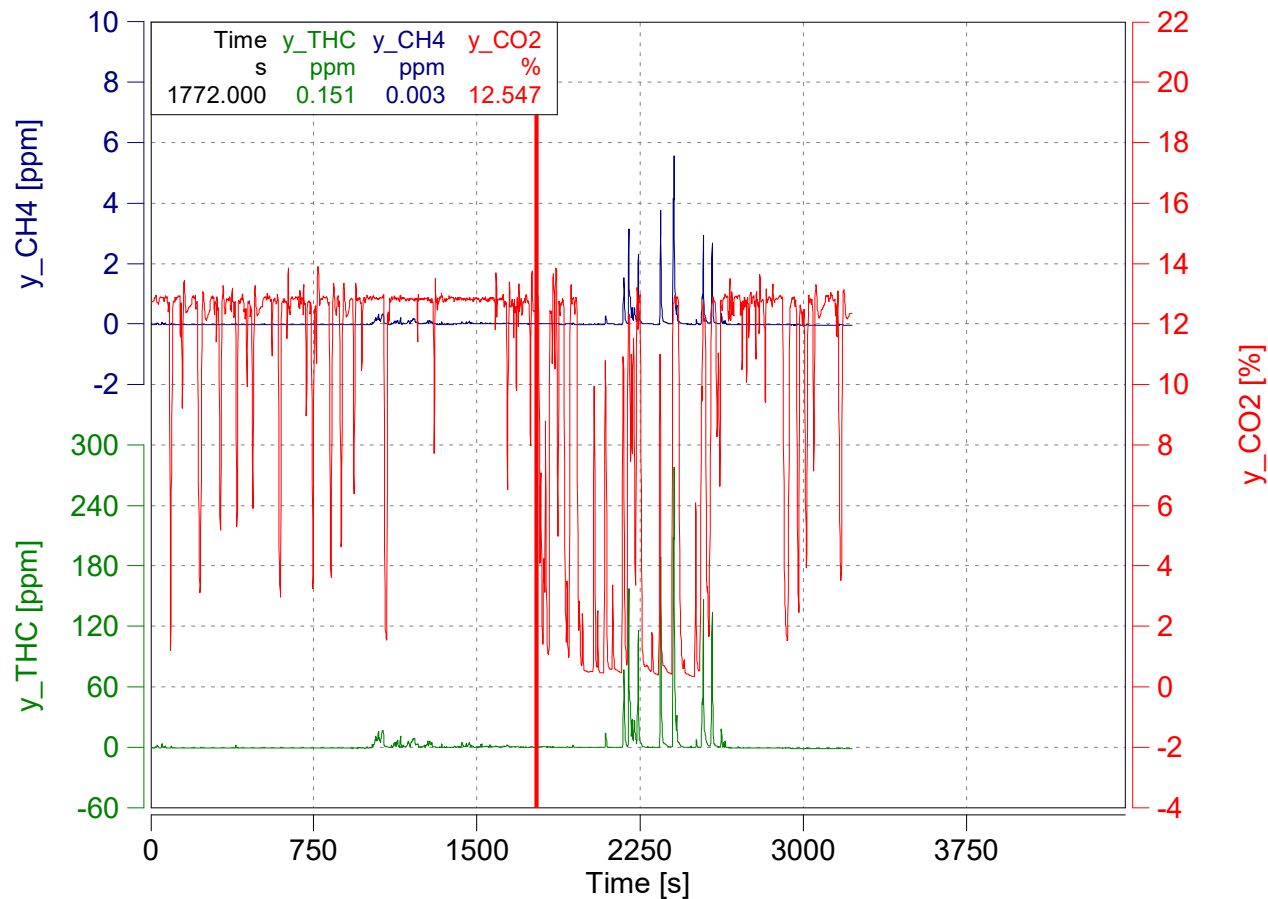
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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

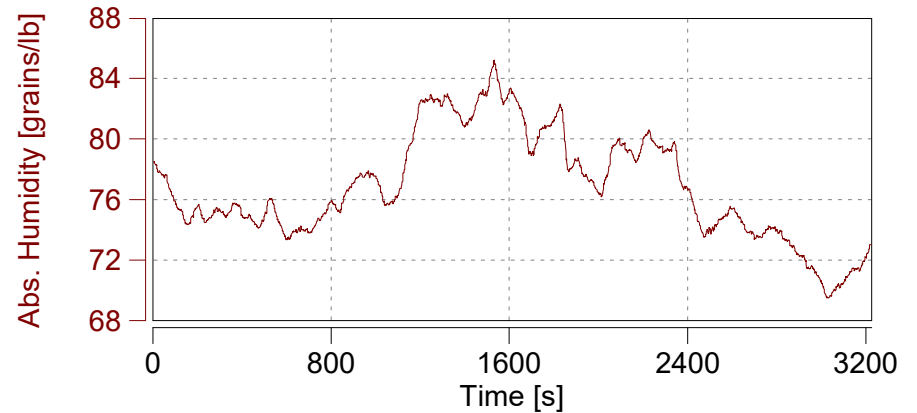
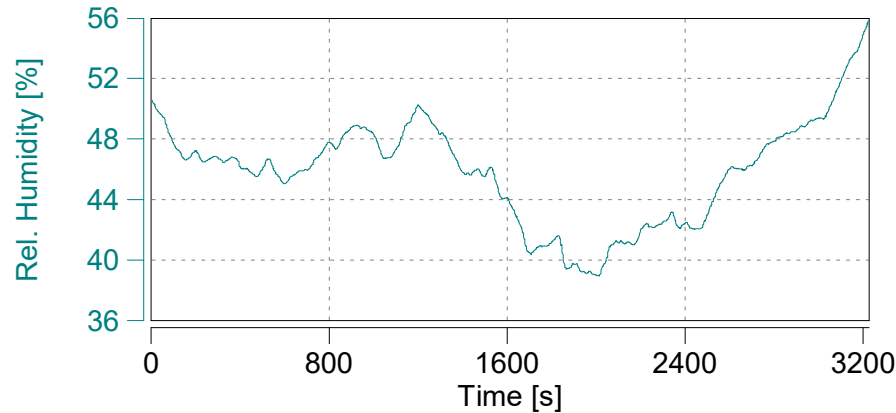
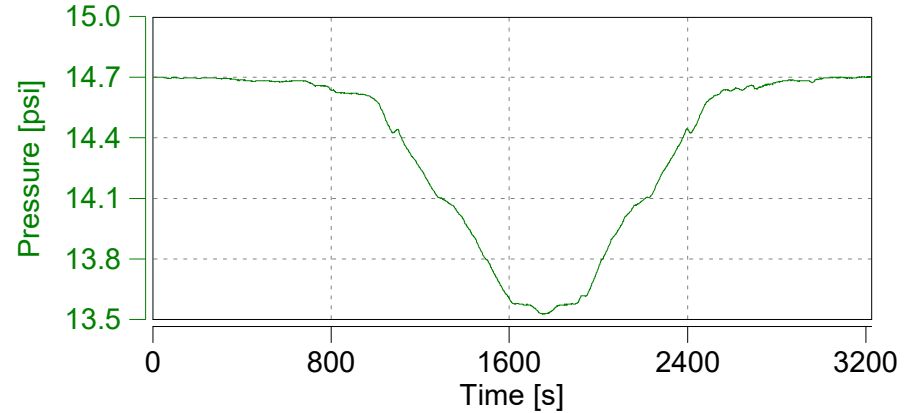
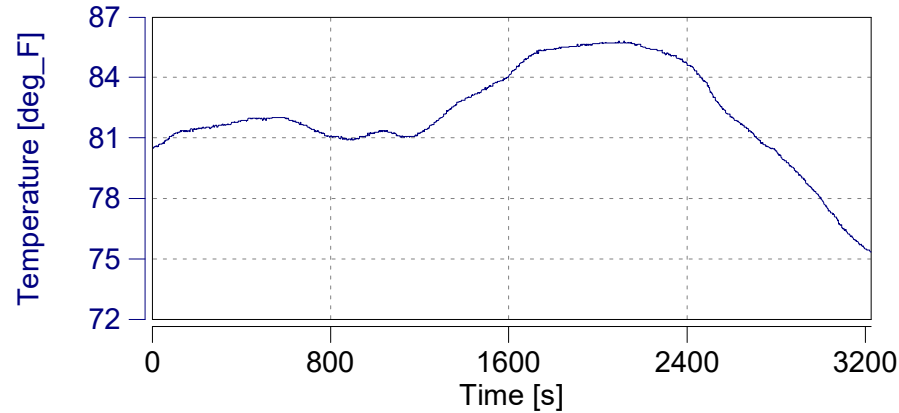
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y_CH4	s	-1.1

Reset Time Shifts in Plot

Apply Current Values

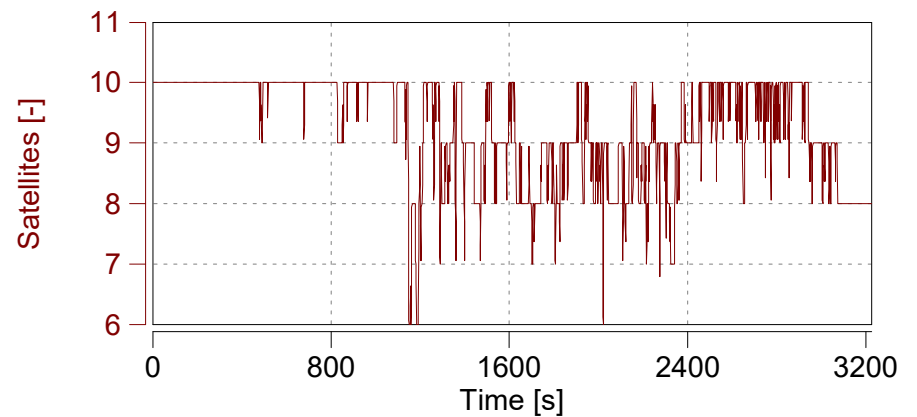
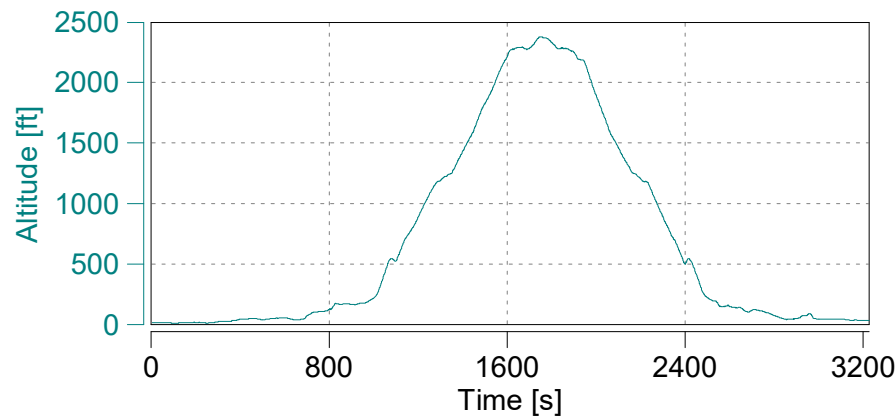
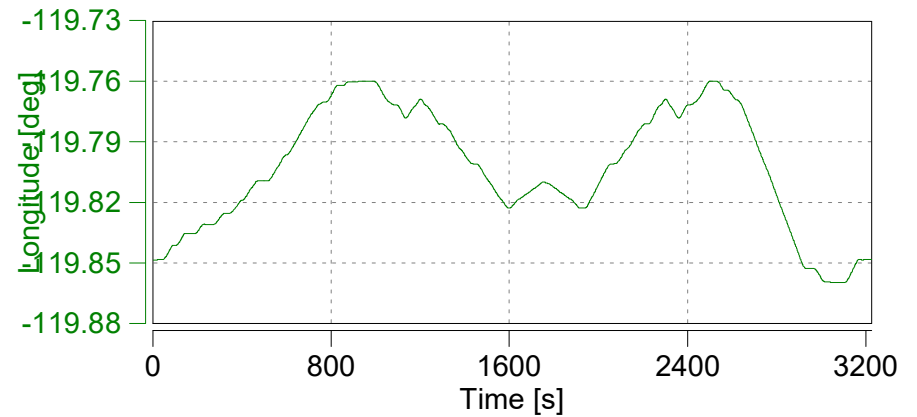
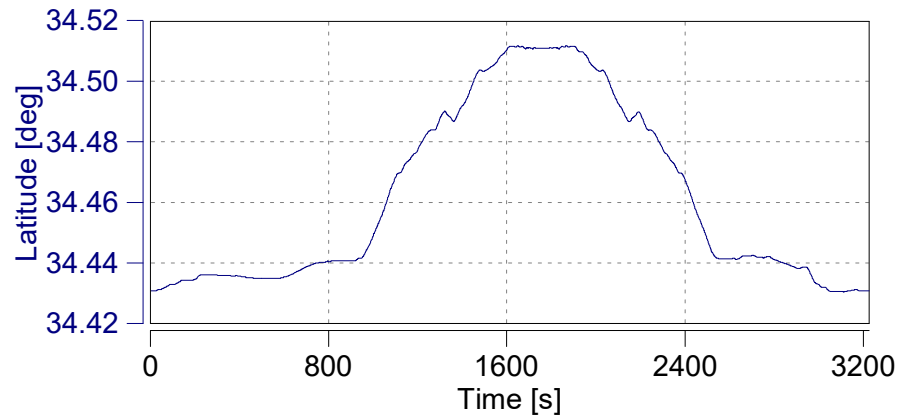
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



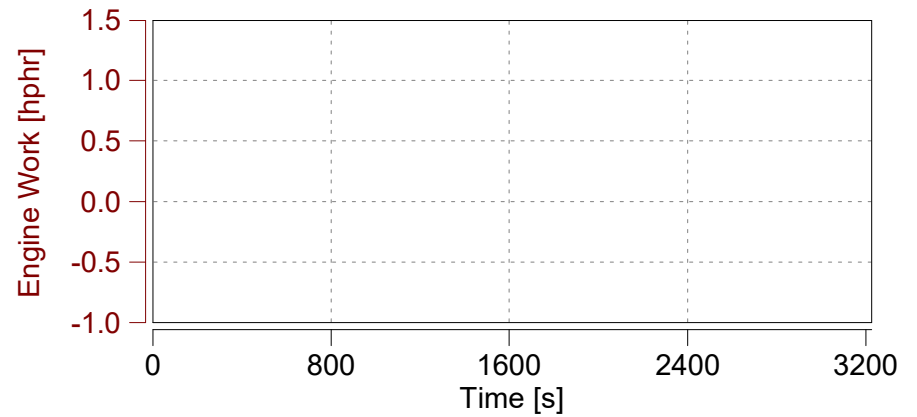
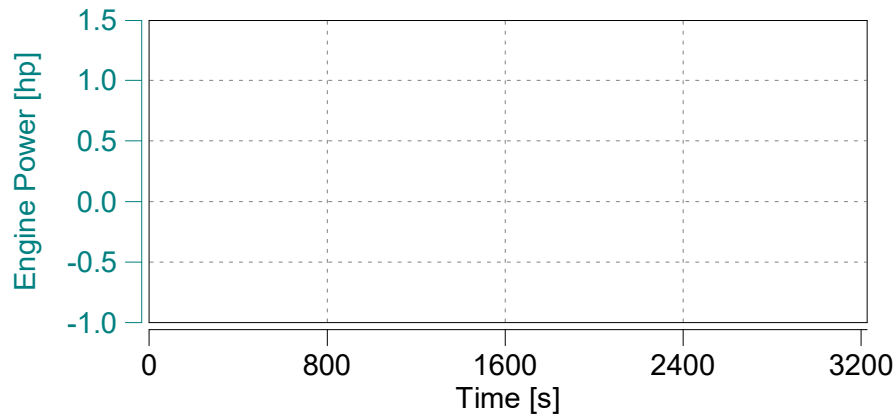
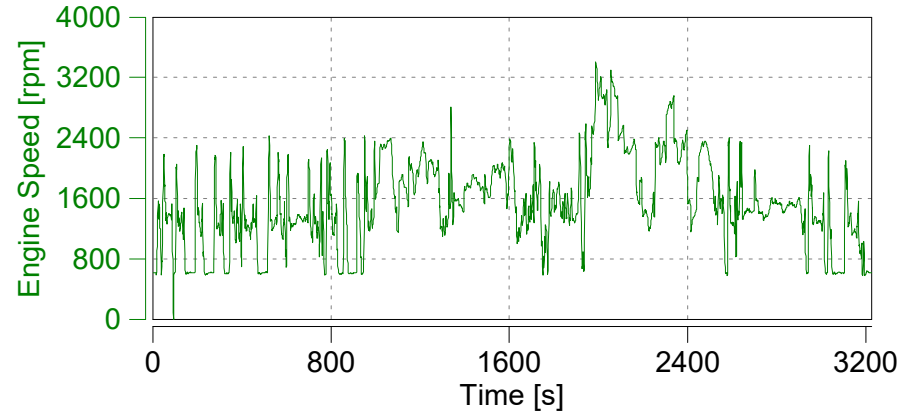
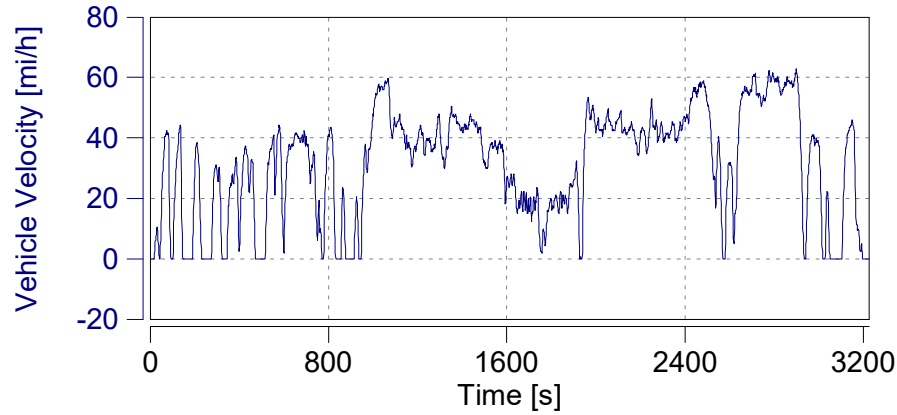
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



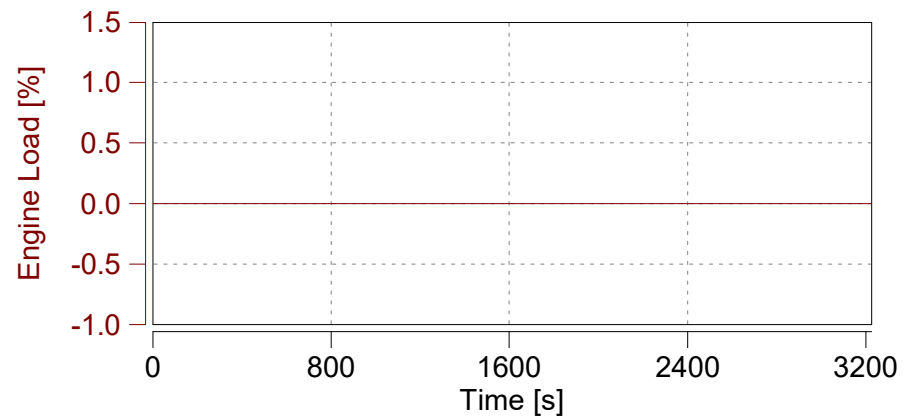
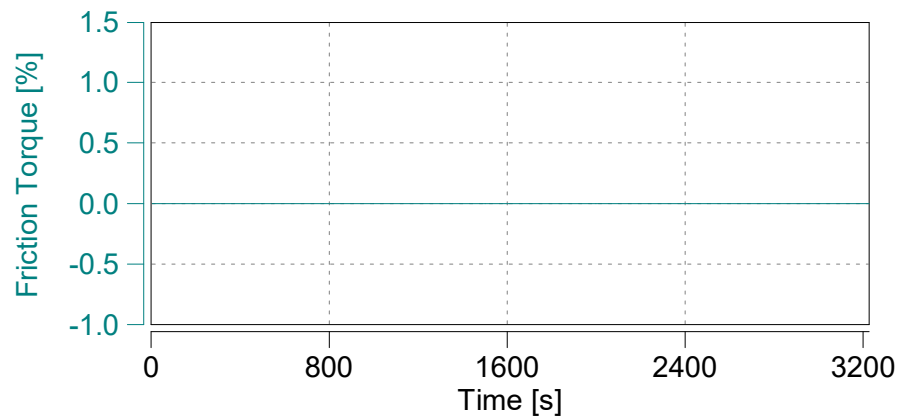
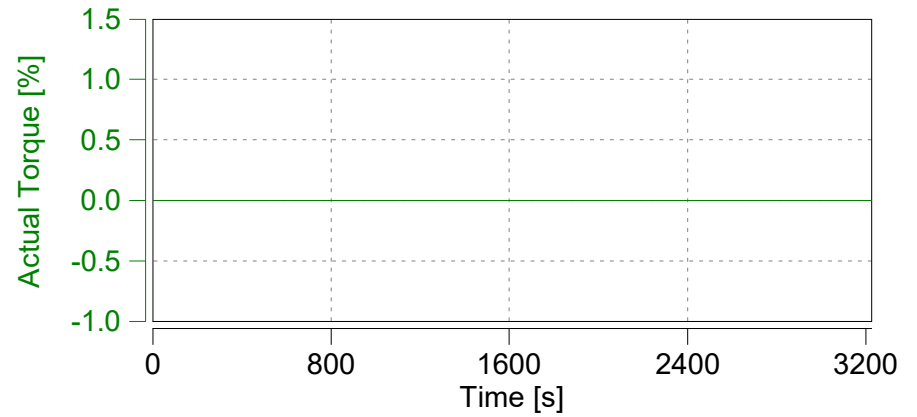
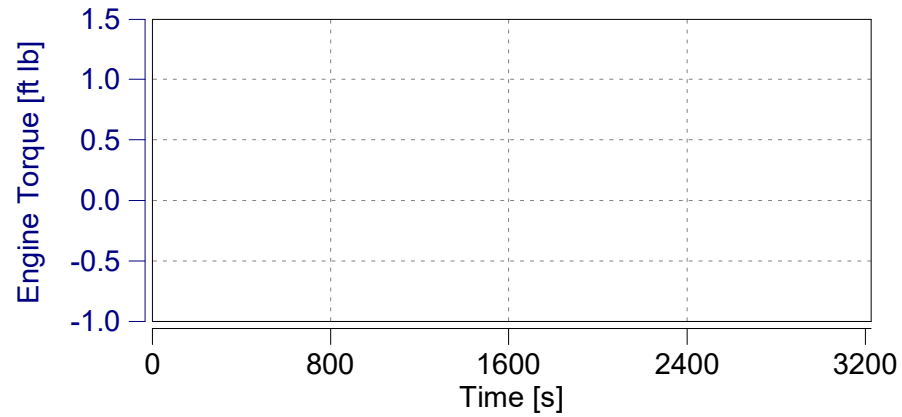
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



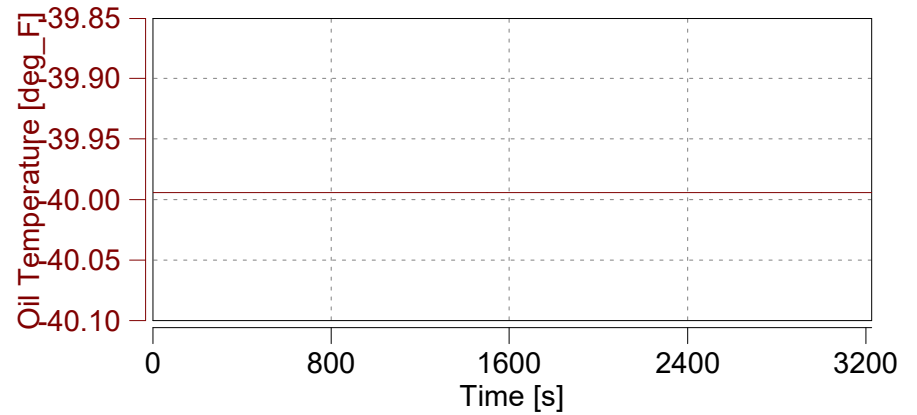
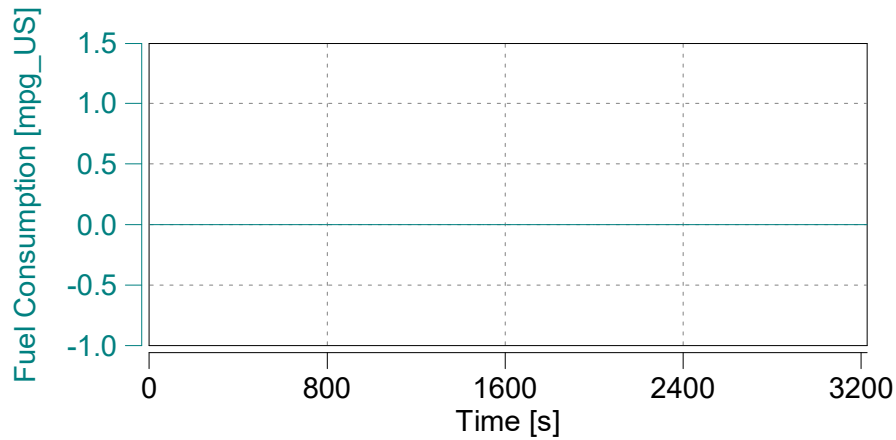
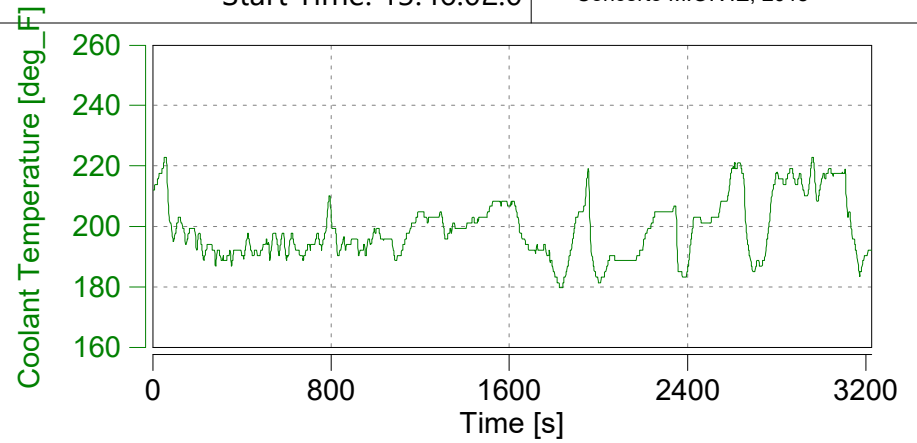
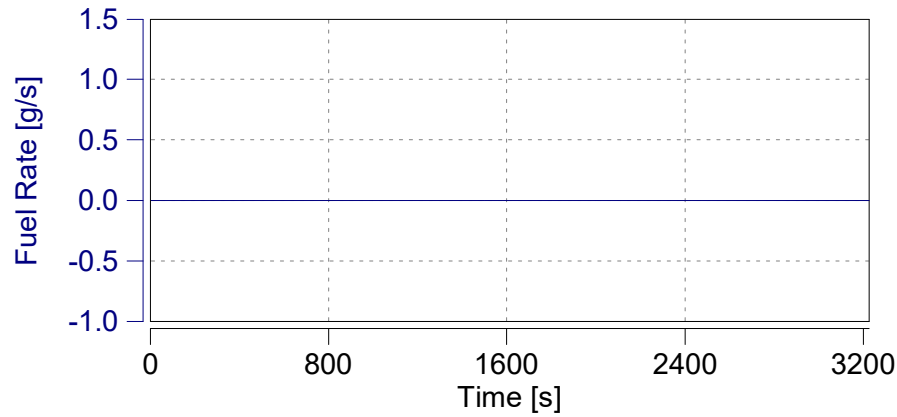
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



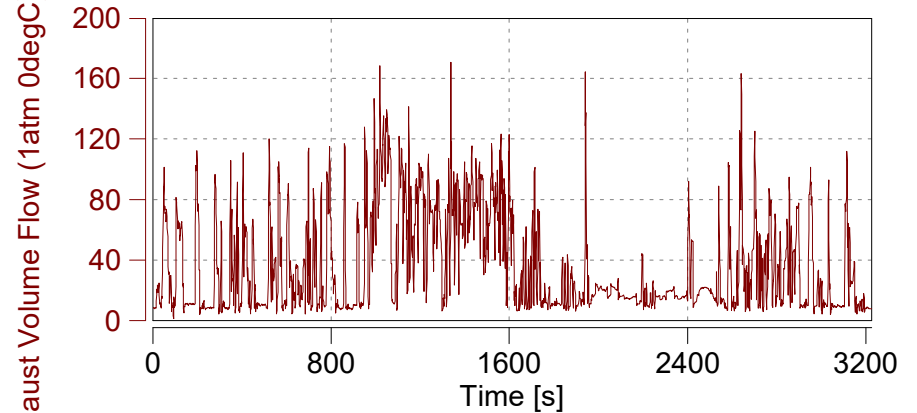
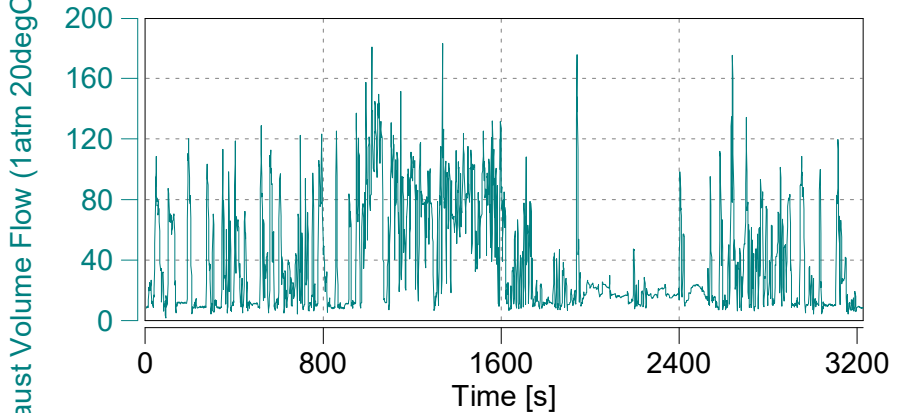
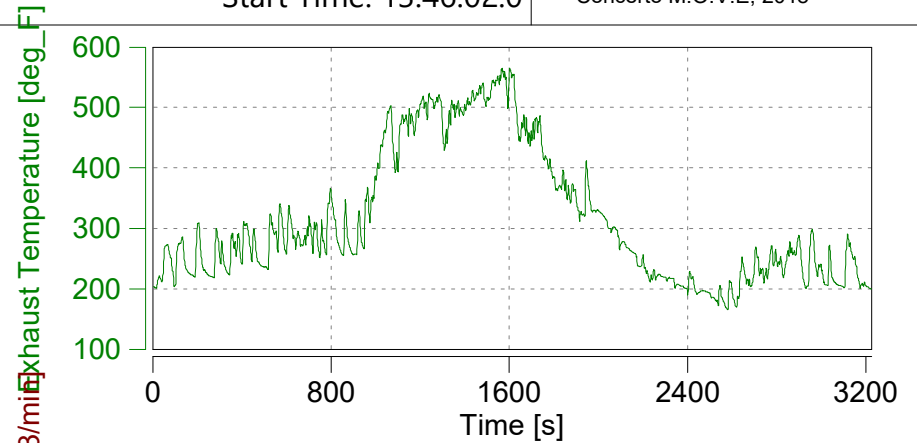
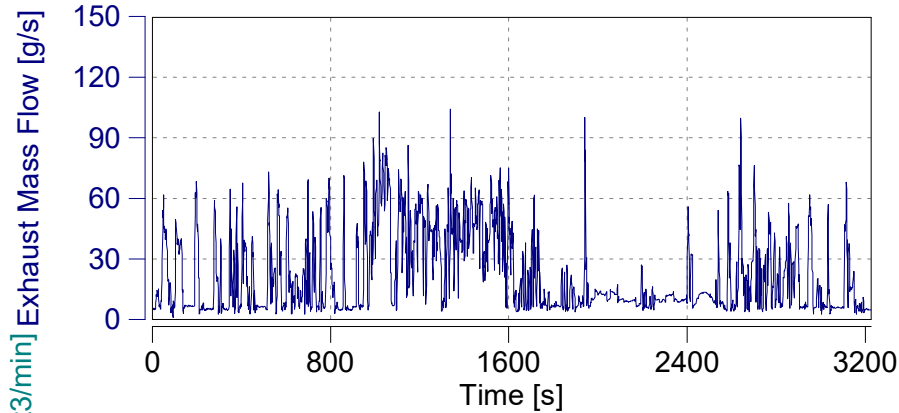
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Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



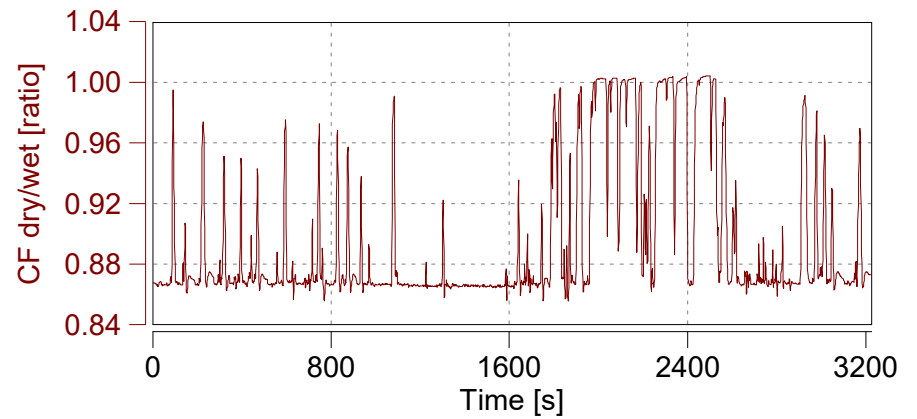
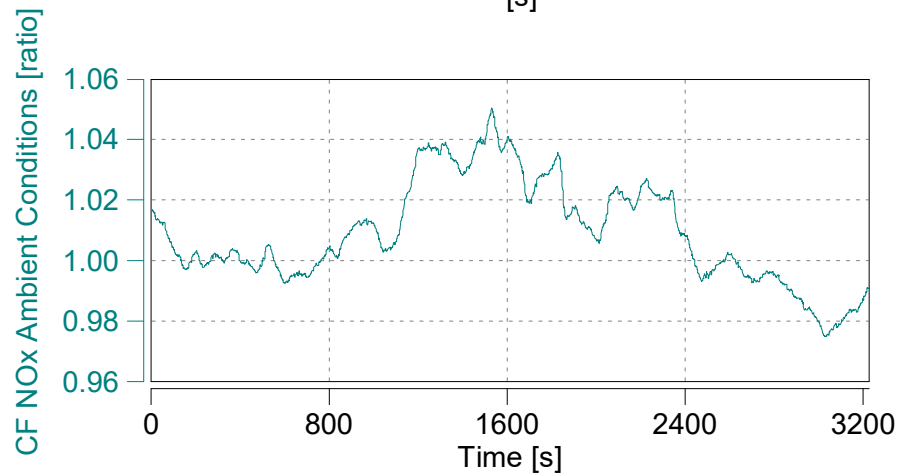
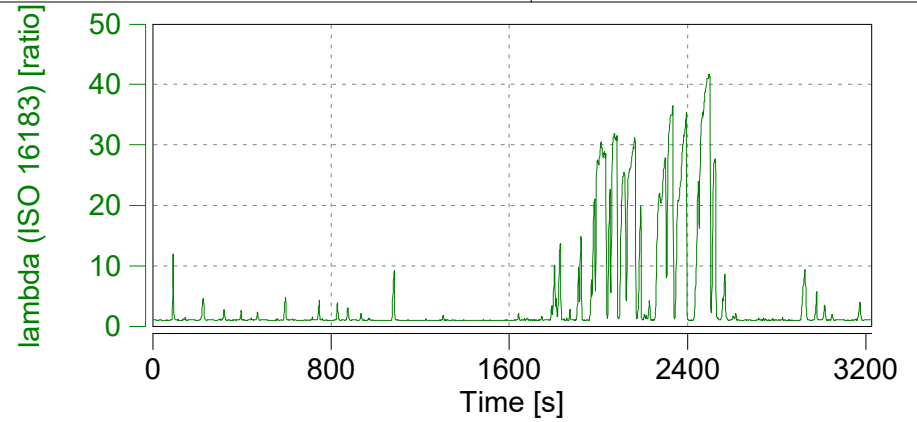
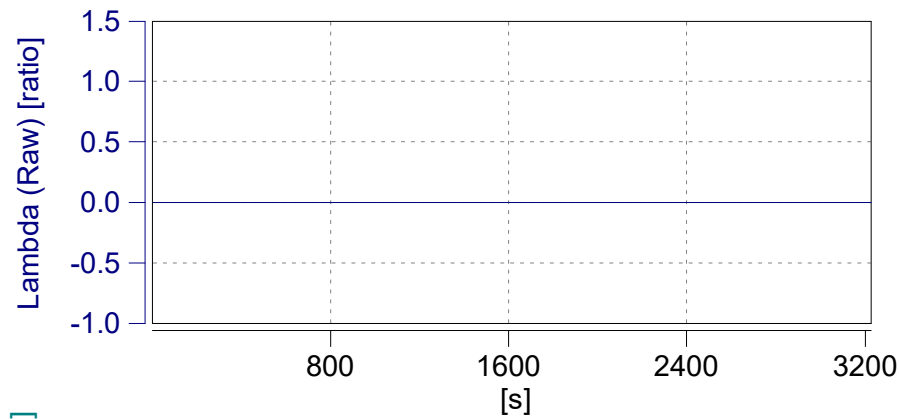
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Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



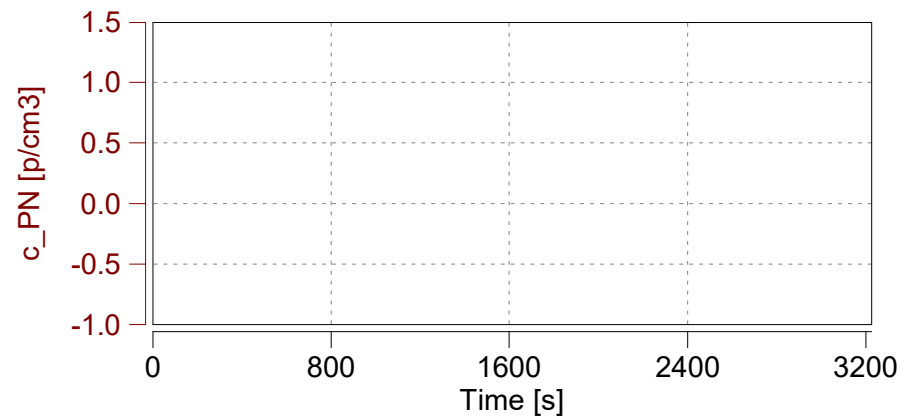
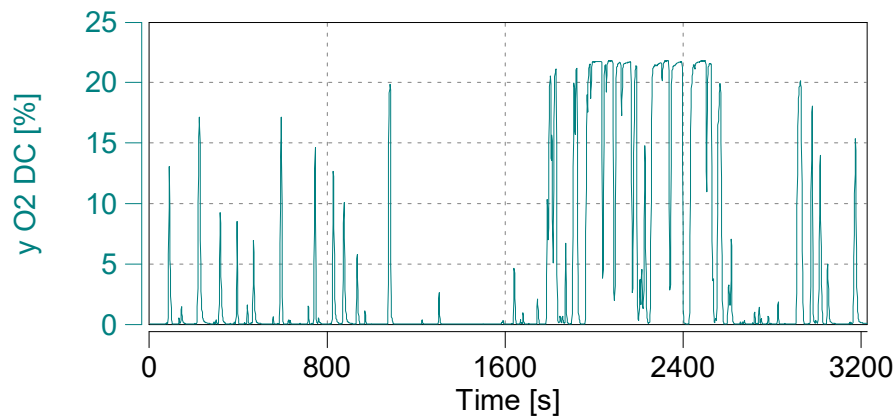
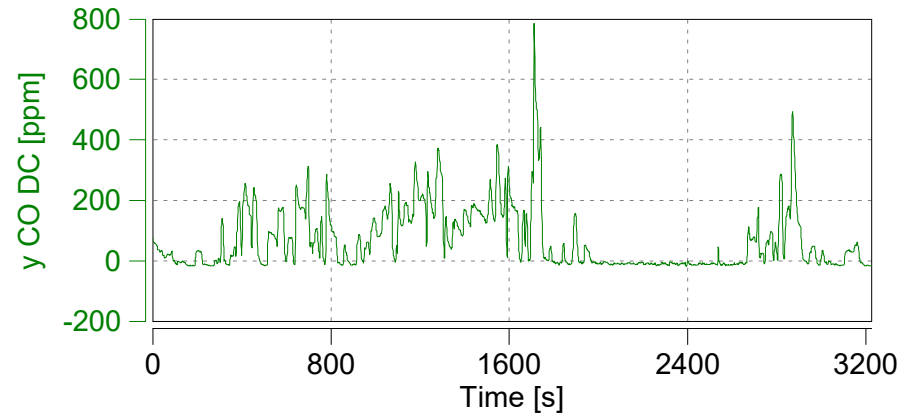
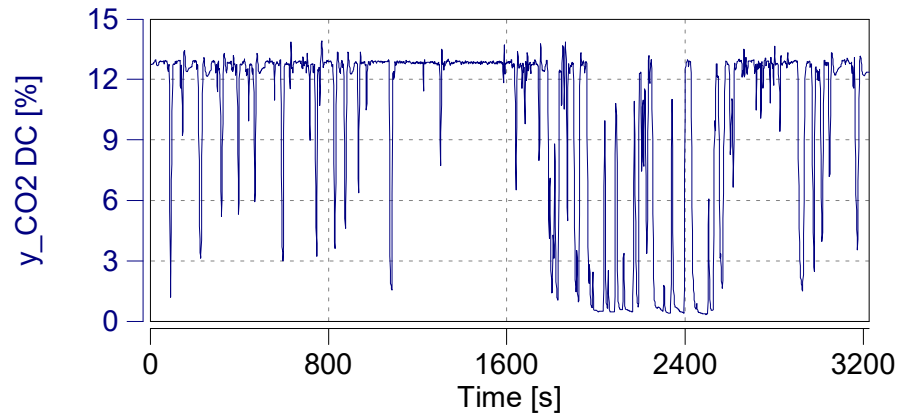
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Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



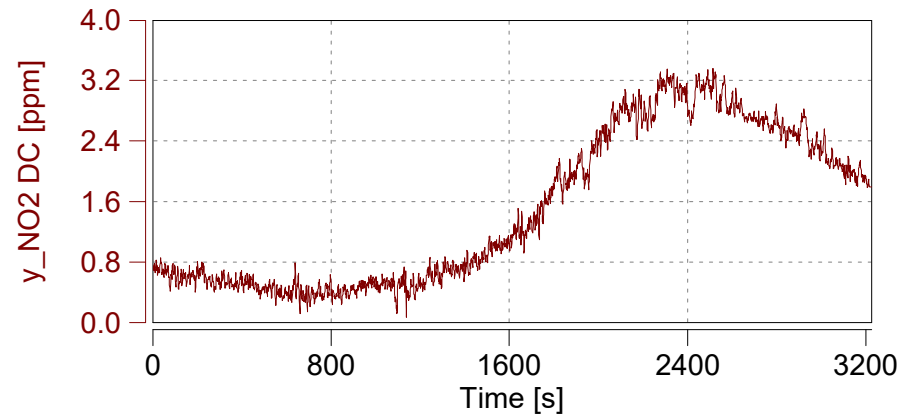
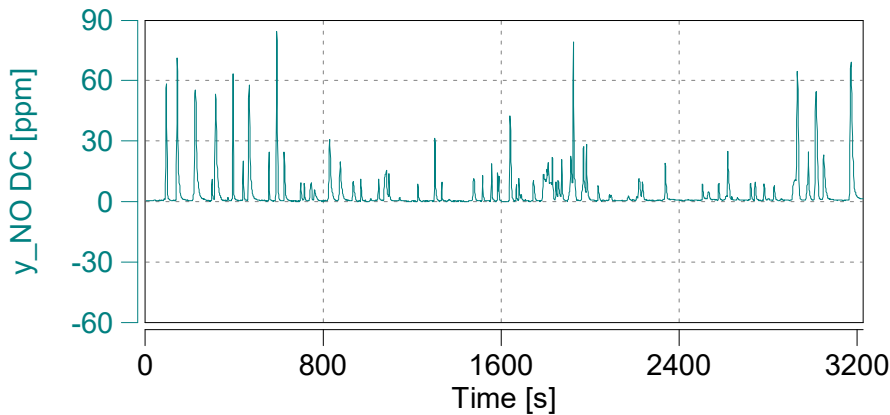
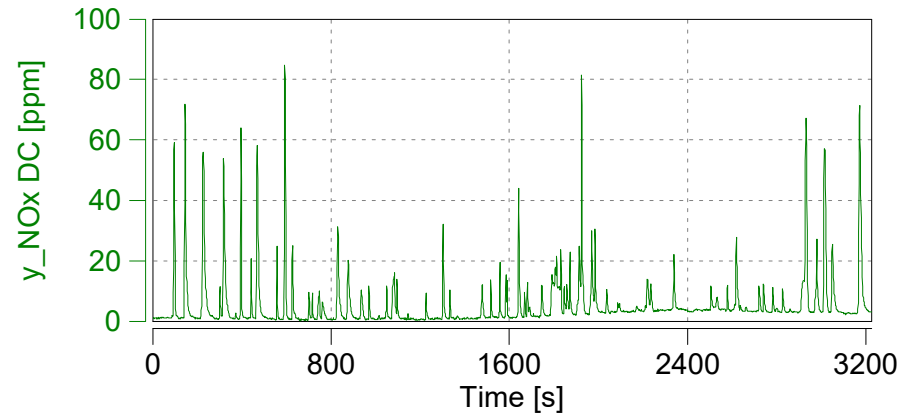
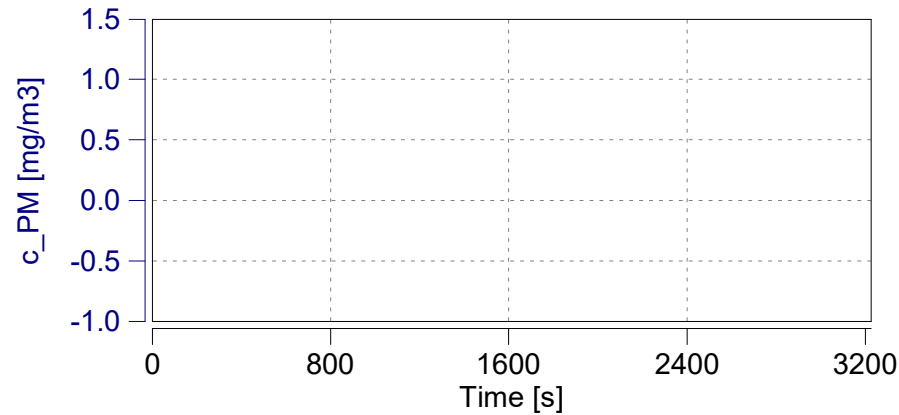
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Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



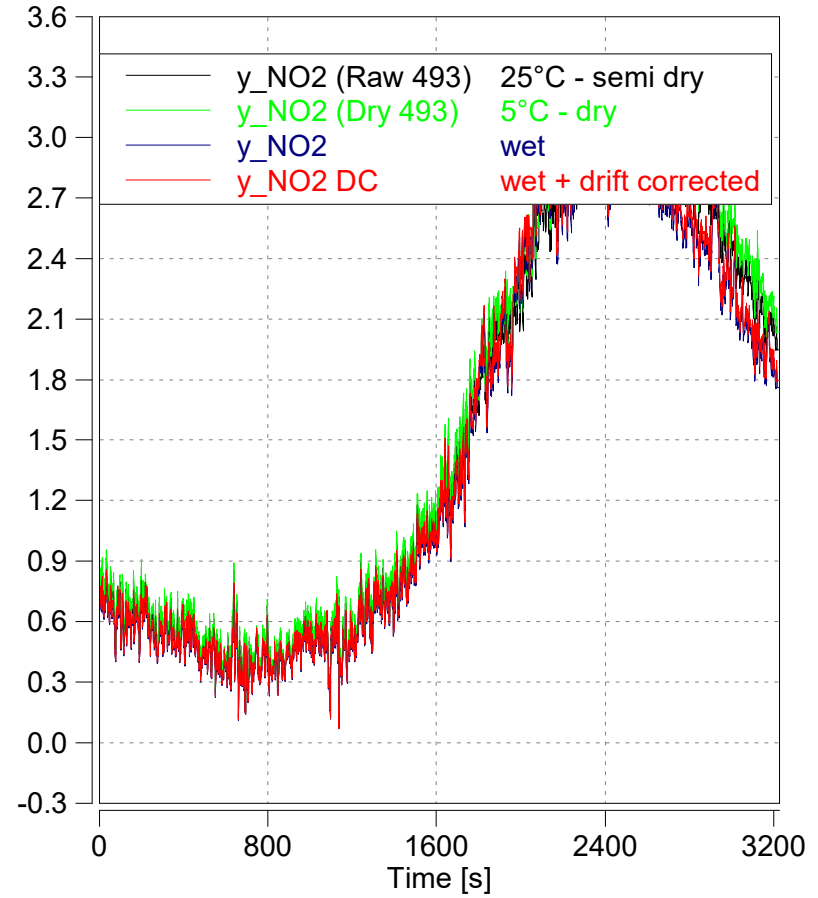
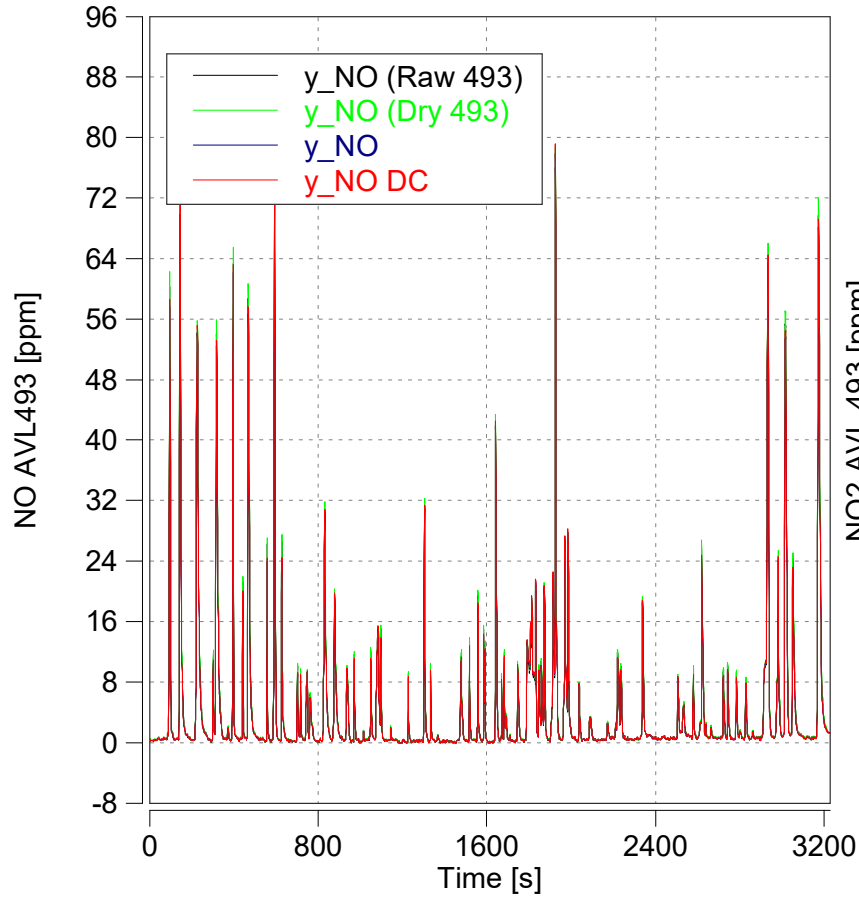
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Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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

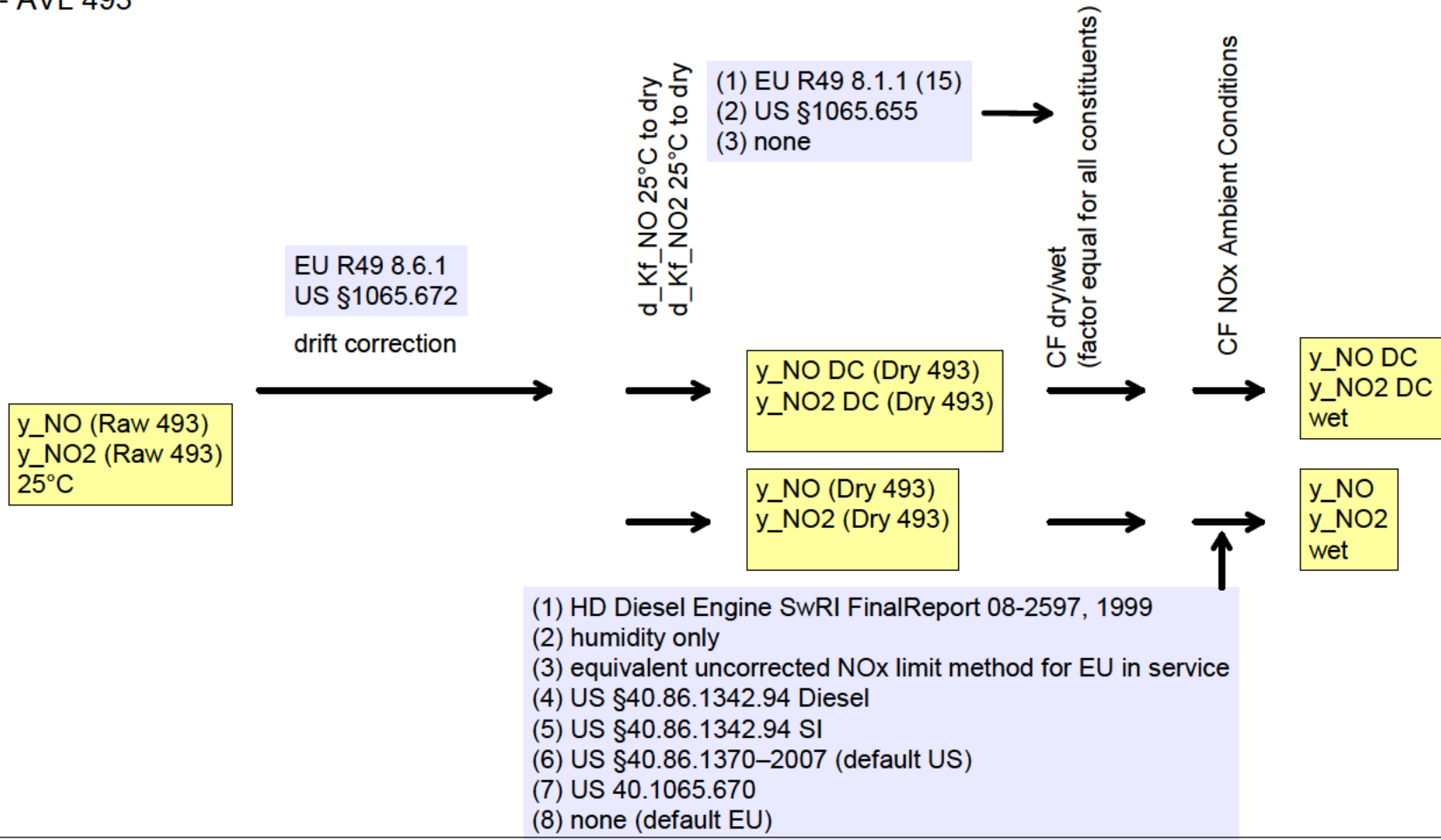


Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: Audi Q8 / 3.0L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Mountain

Page: Corrected Emissions (5)

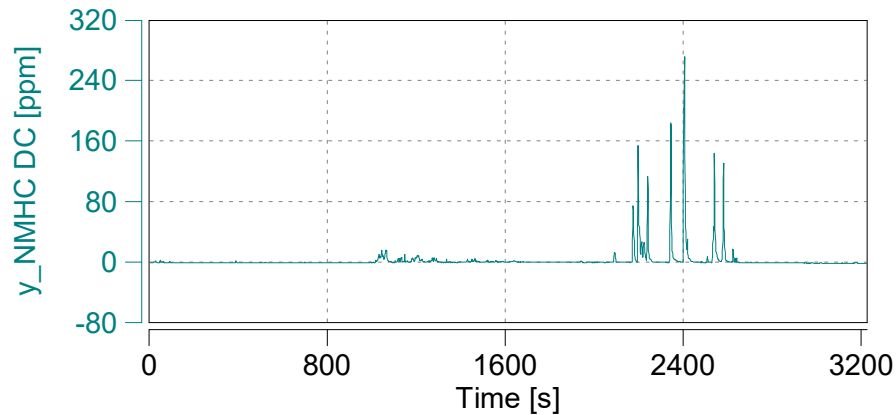
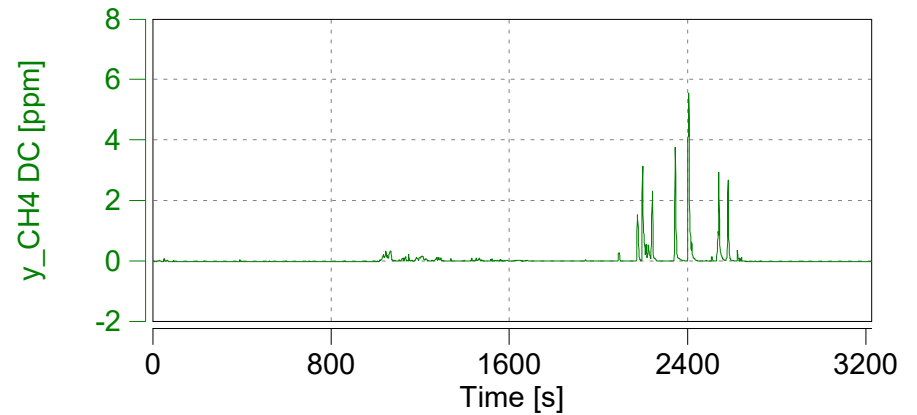
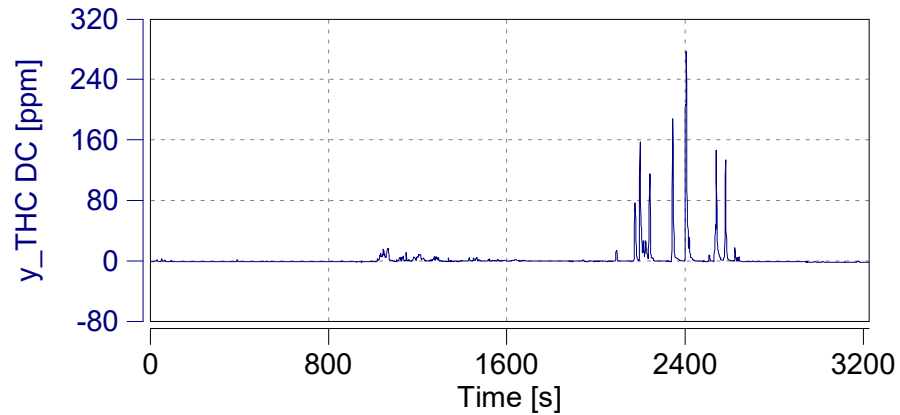
'Mountain'

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

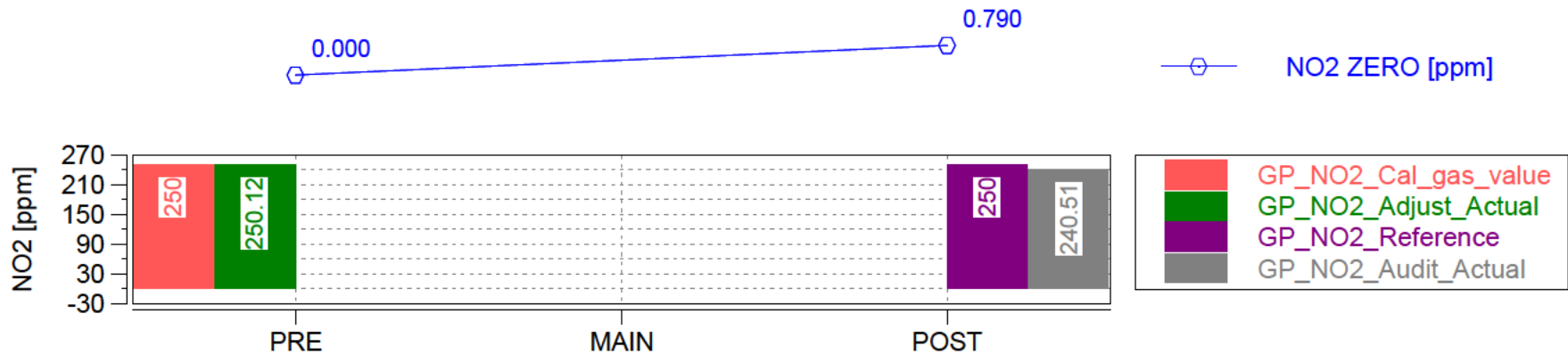
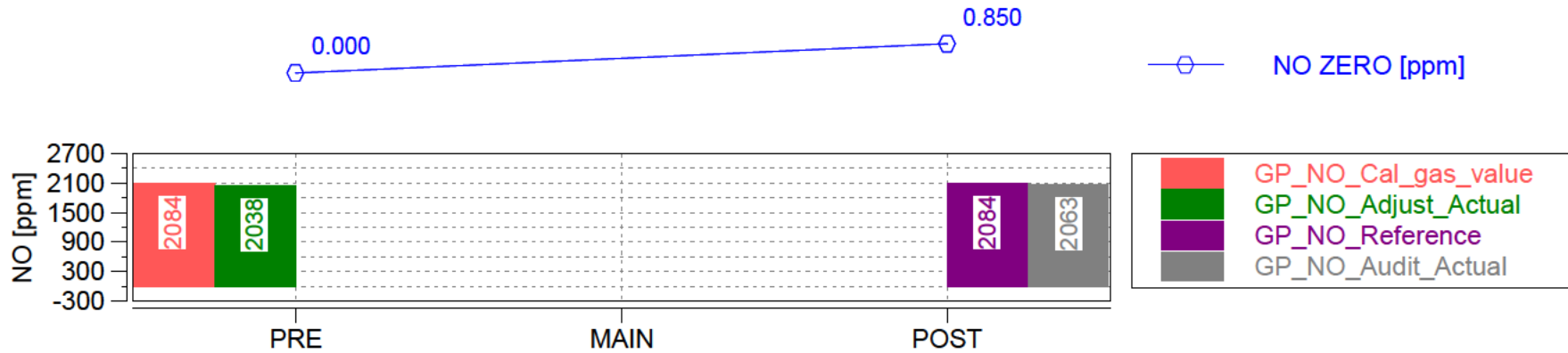
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Vehicle: Audi Q8 / 3.0L

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

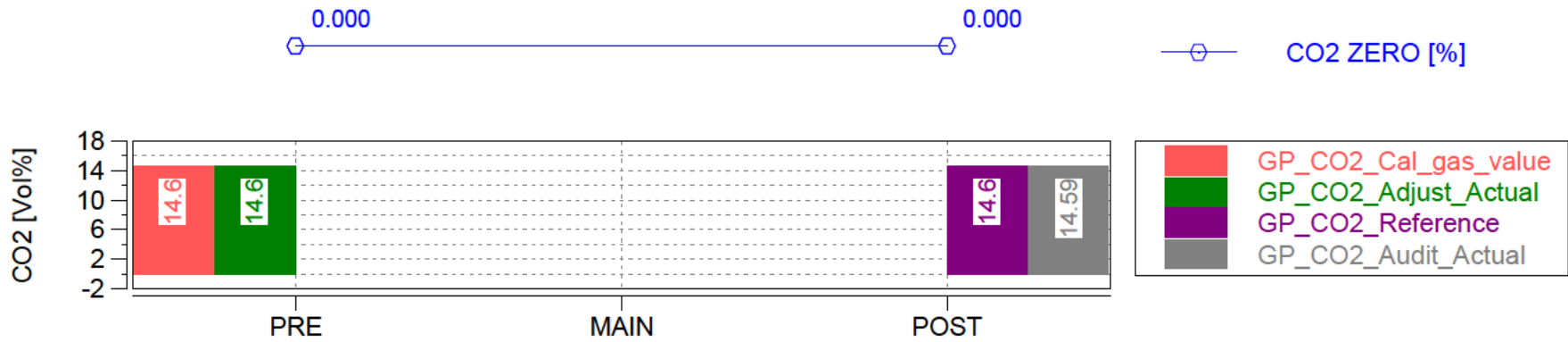
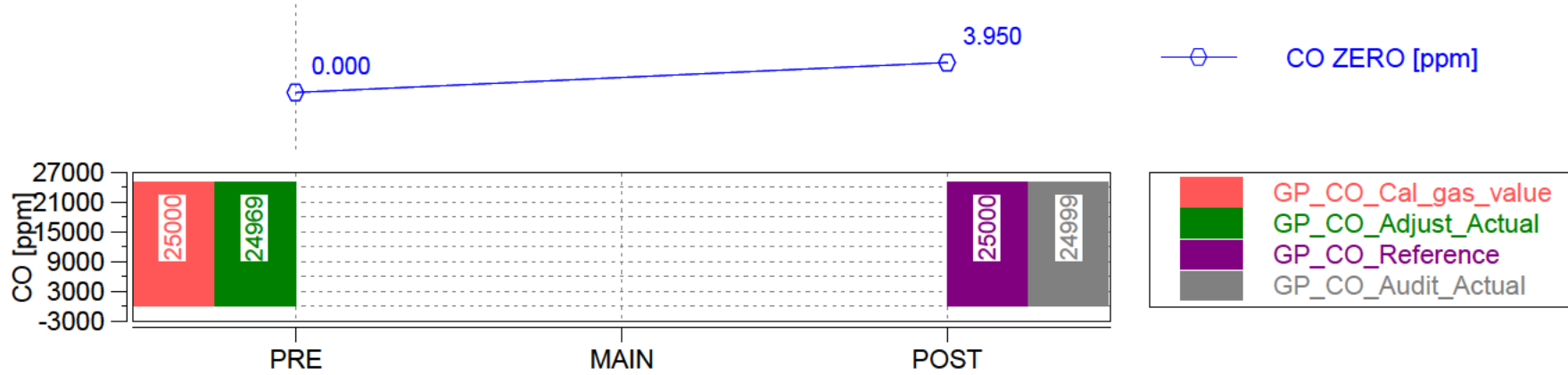
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

Vehicle: Audi Q8 / 3.0L

Engine: /

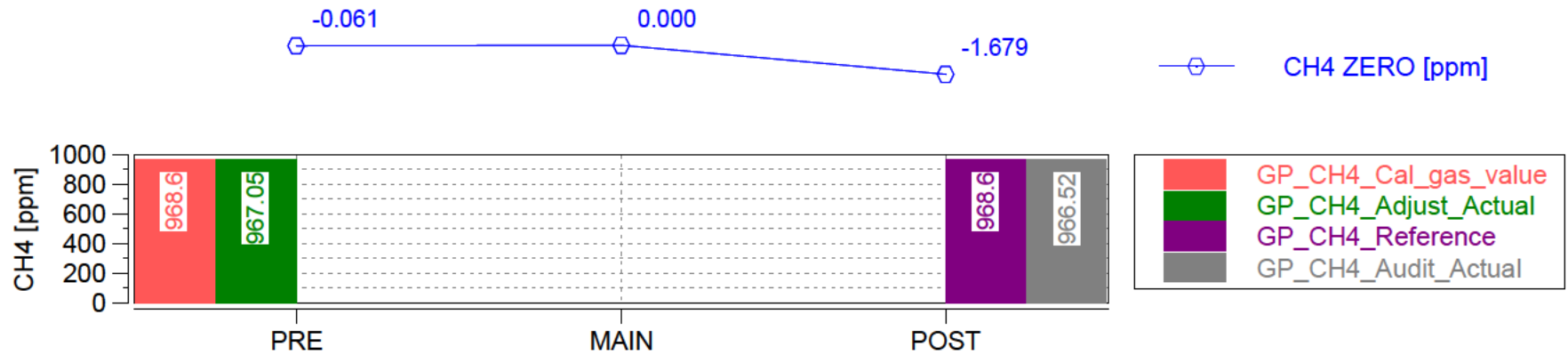
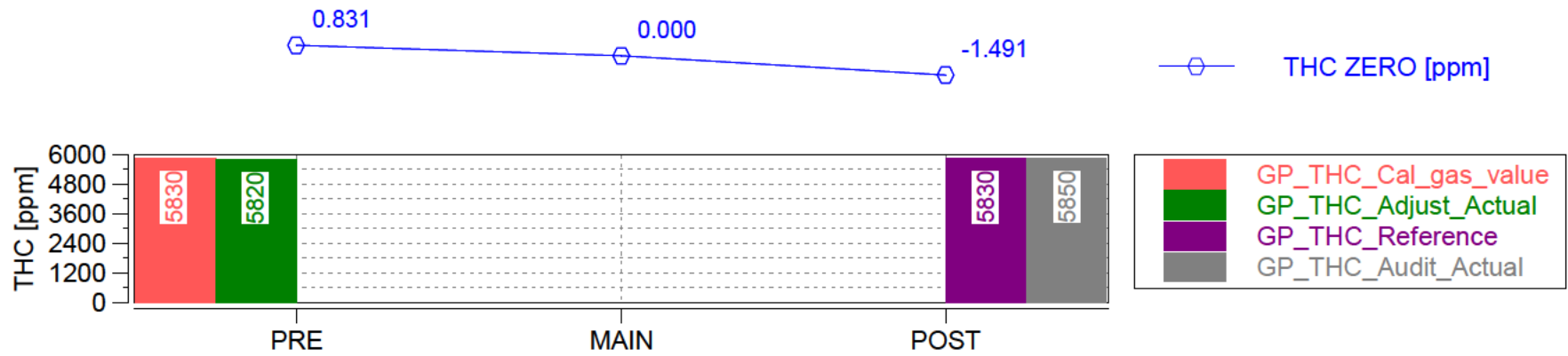
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



Concerto Version: 480 Build 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

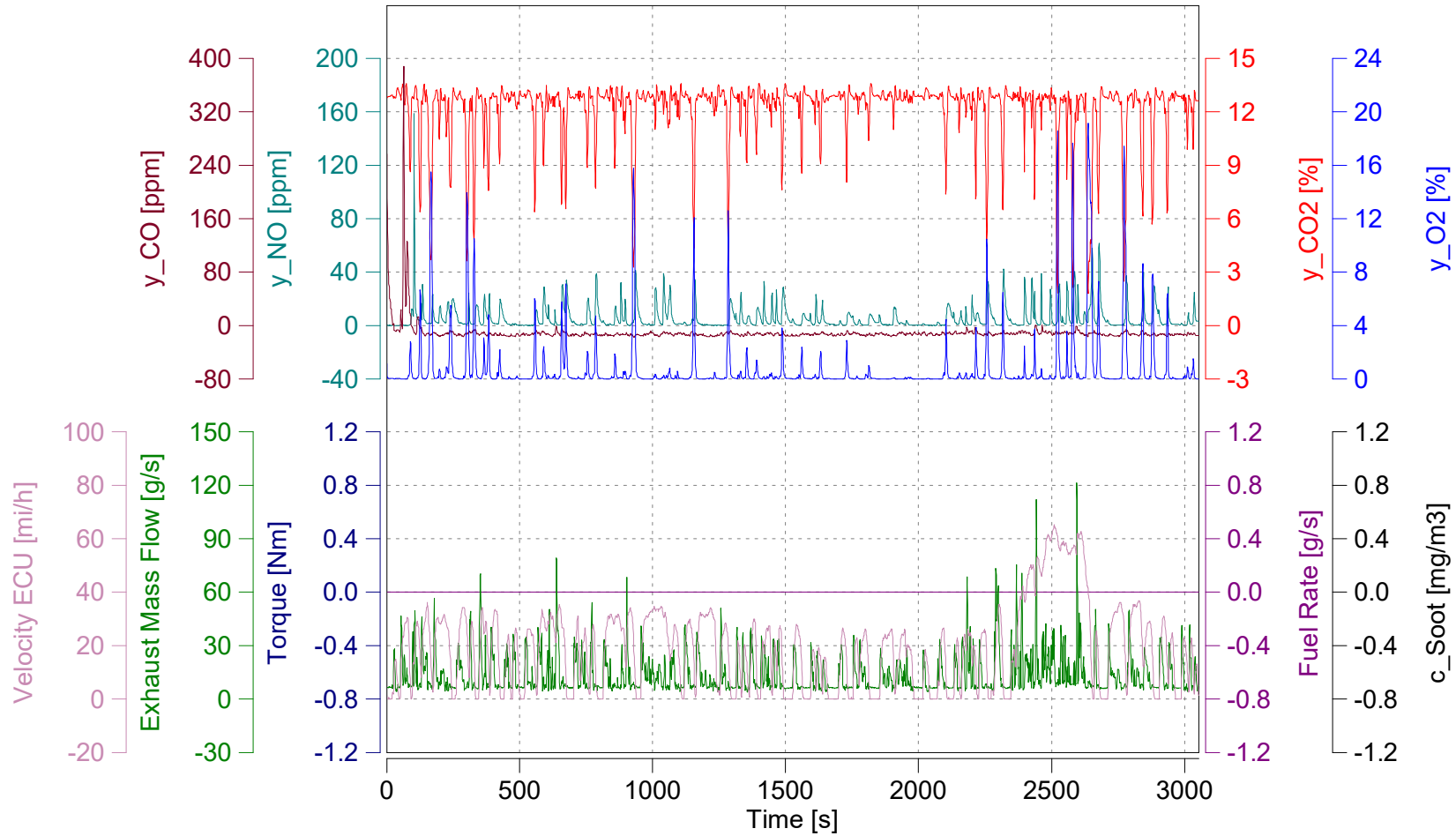
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Vehicle: Atlas / 3.6 L

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: City

Page: Time Alignment of Gas Concentrations

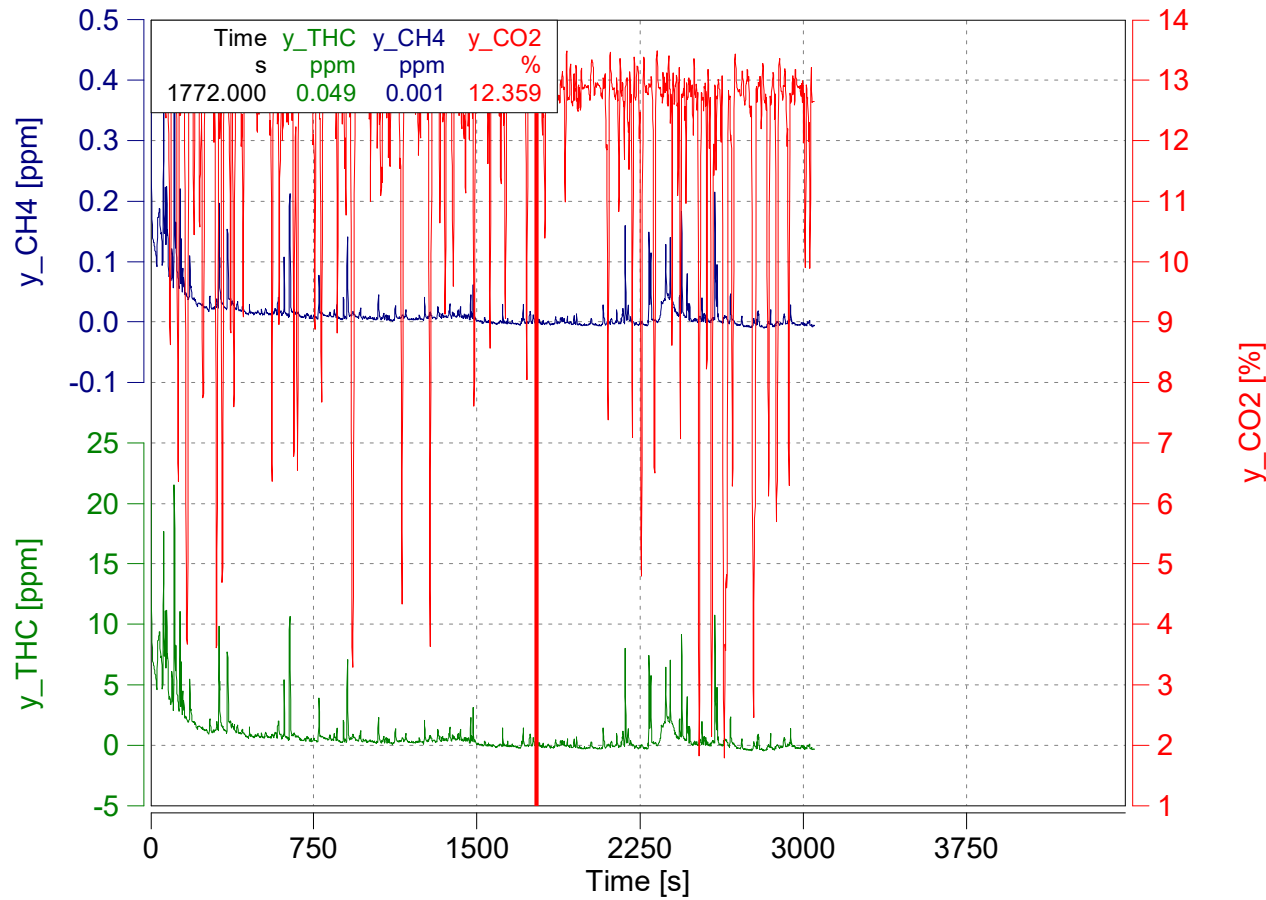
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E, 2018



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 / 3.6 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

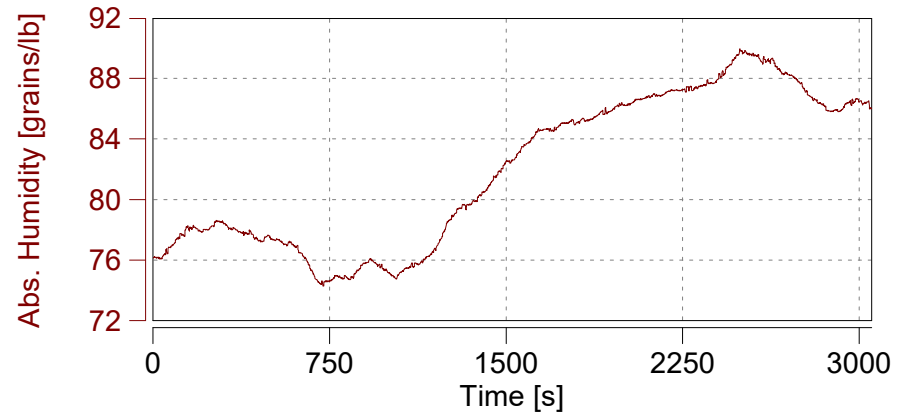
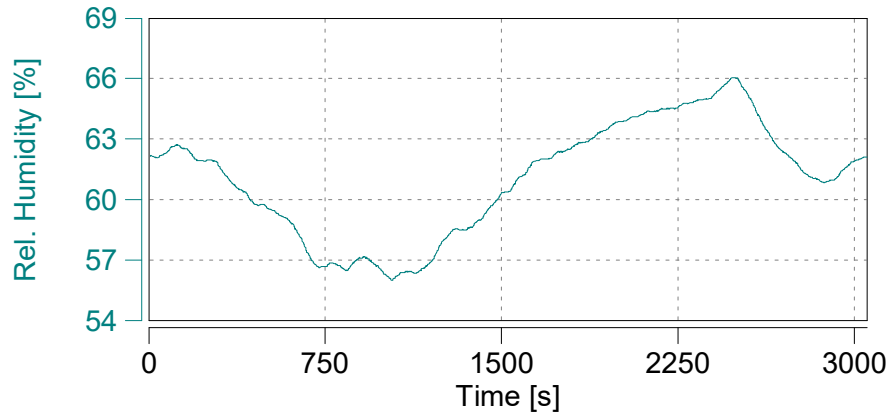
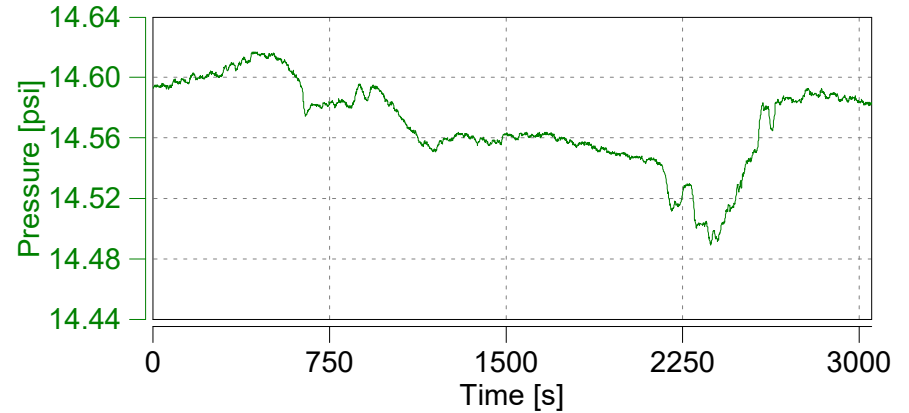
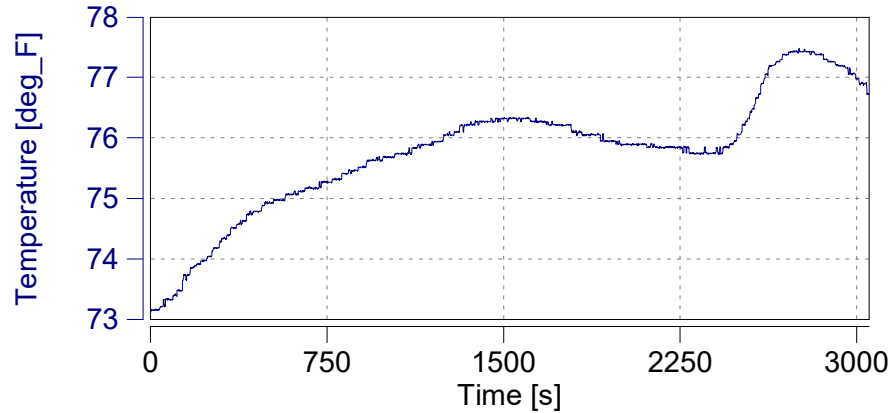
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

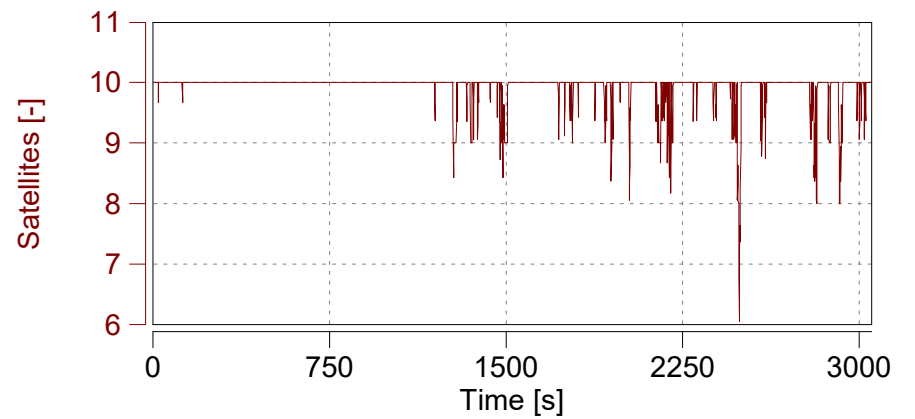
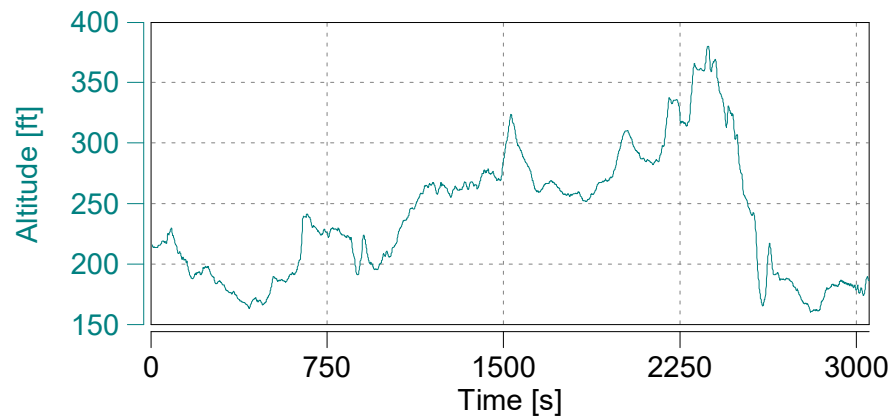
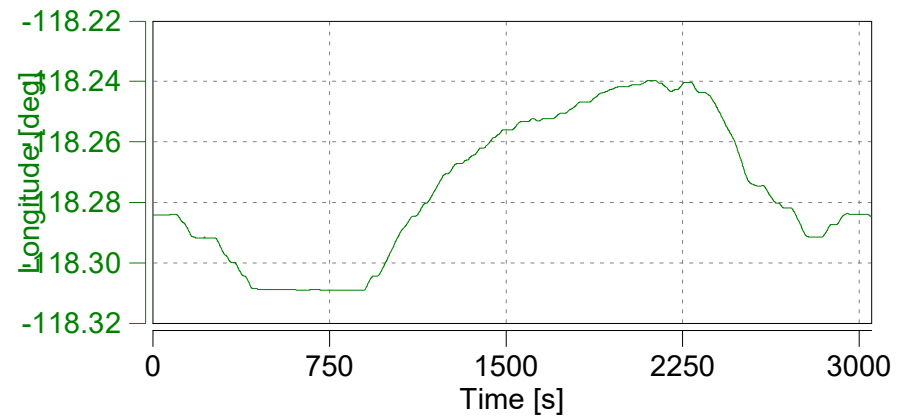
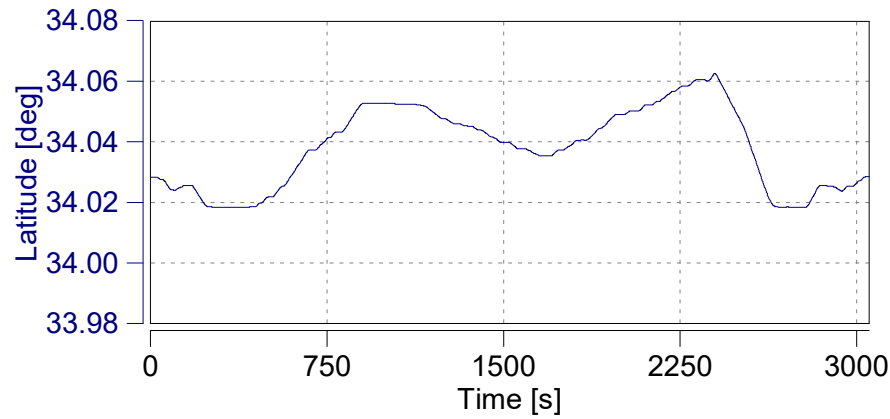
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

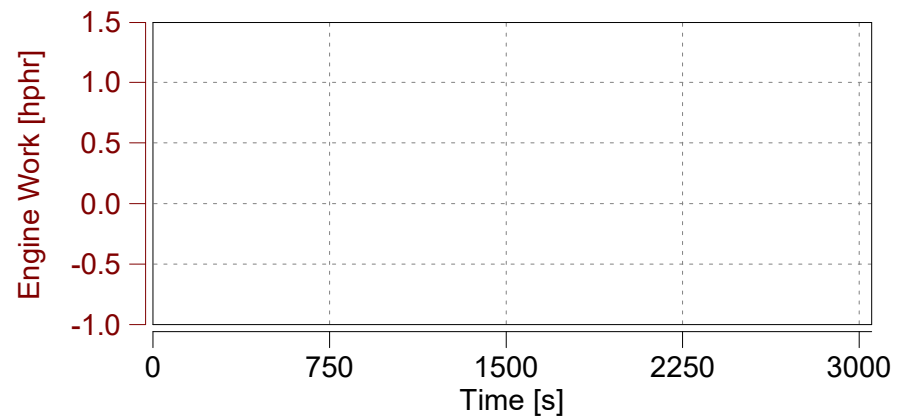
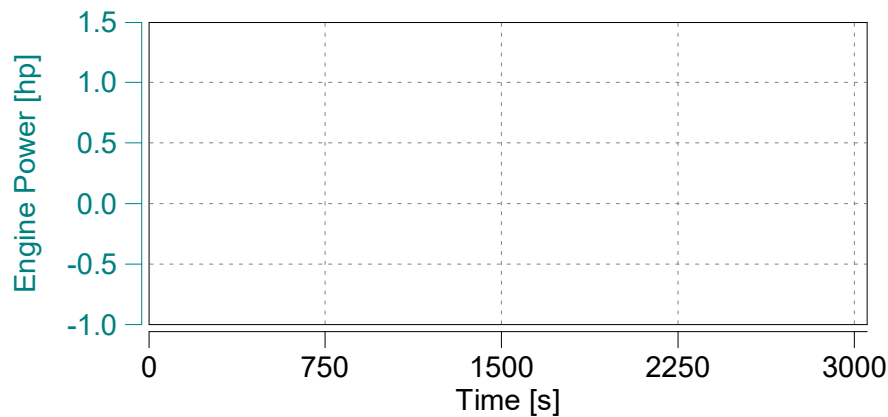
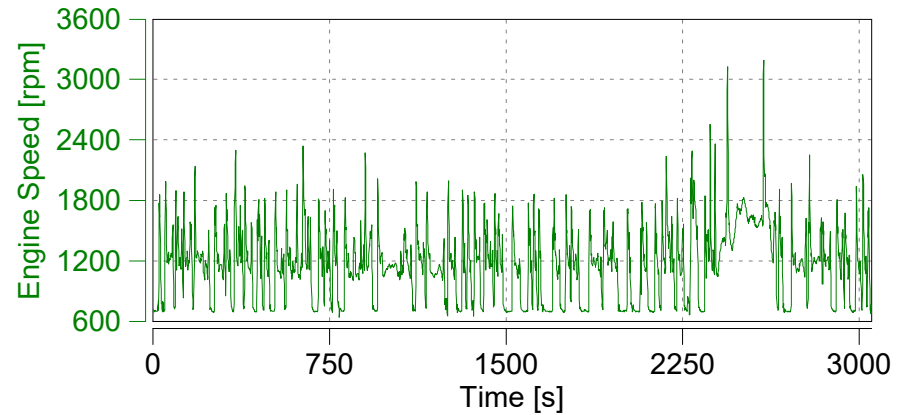
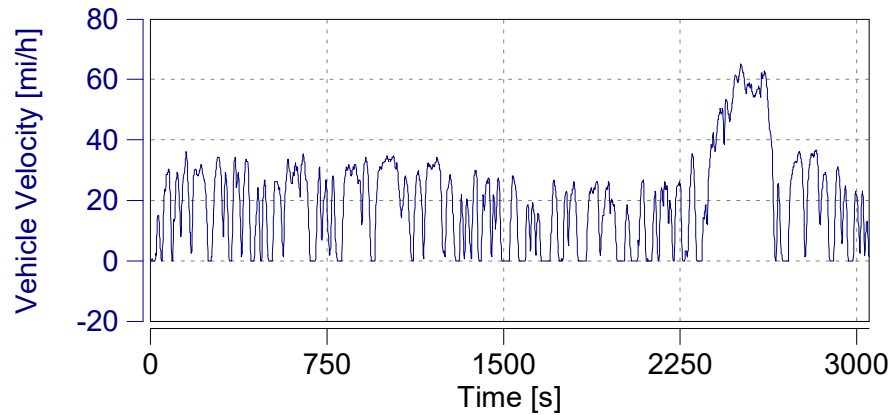
'City'

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

Case: City

Page: Engine (2)

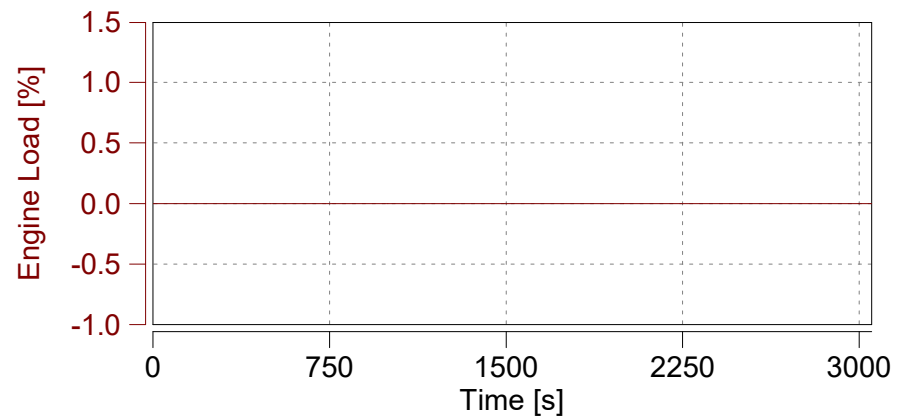
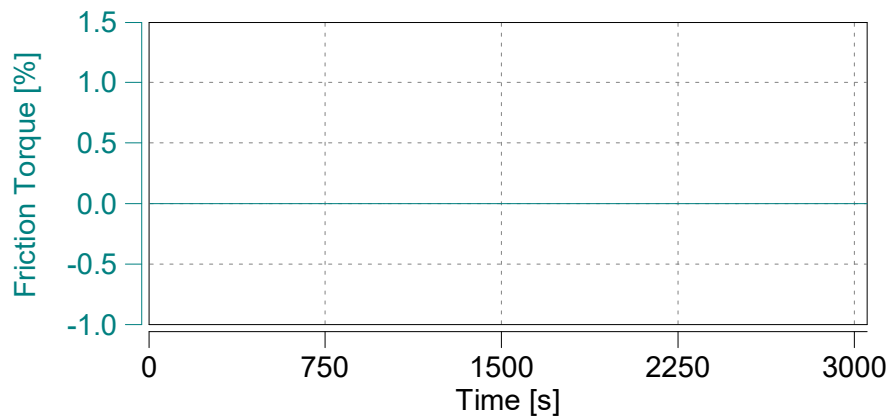
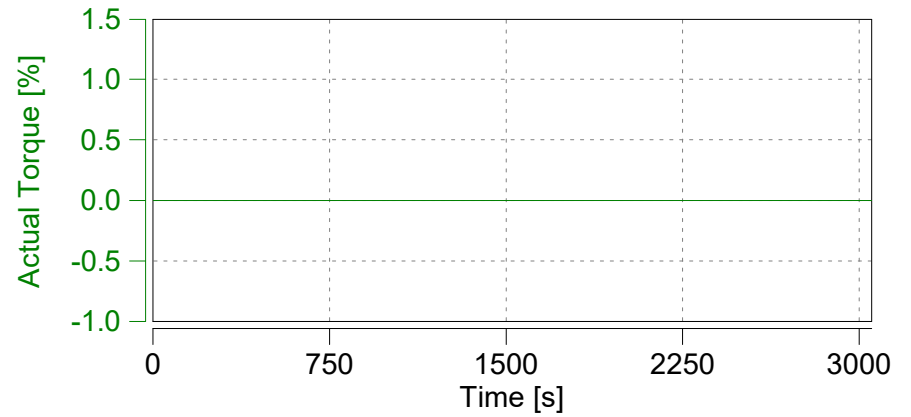
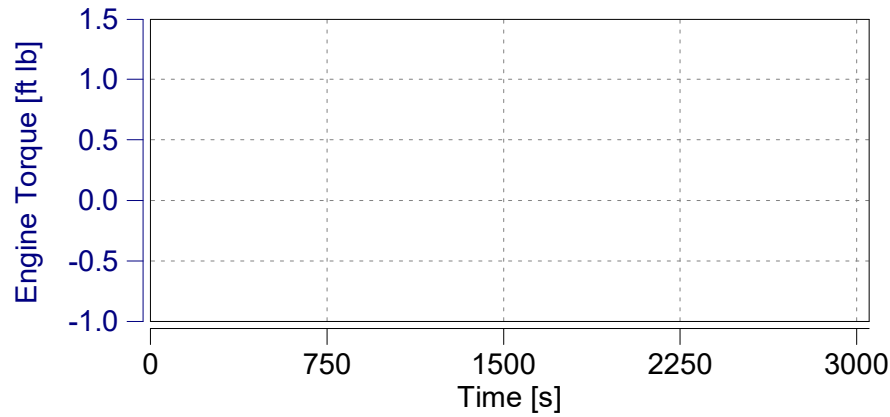
'City'

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

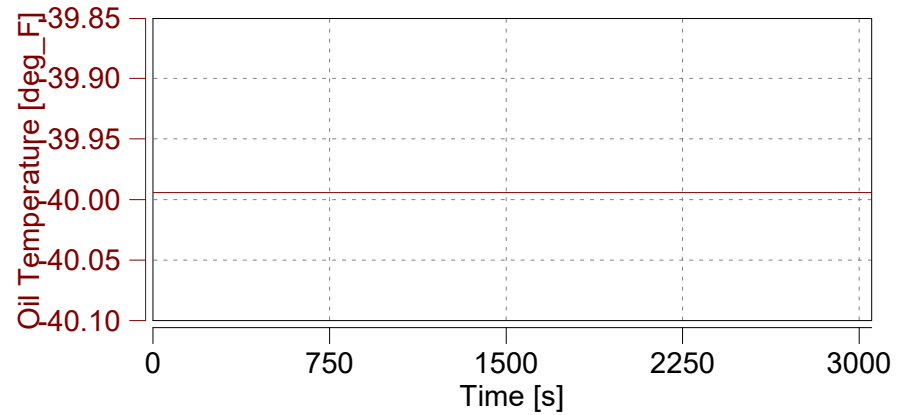
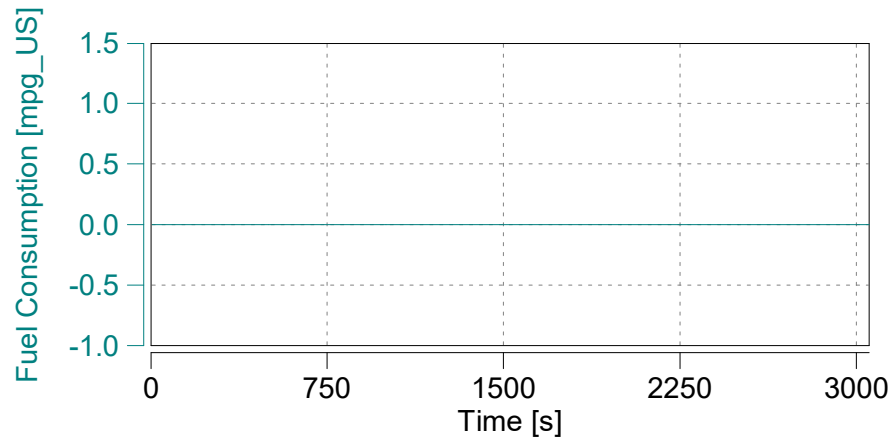
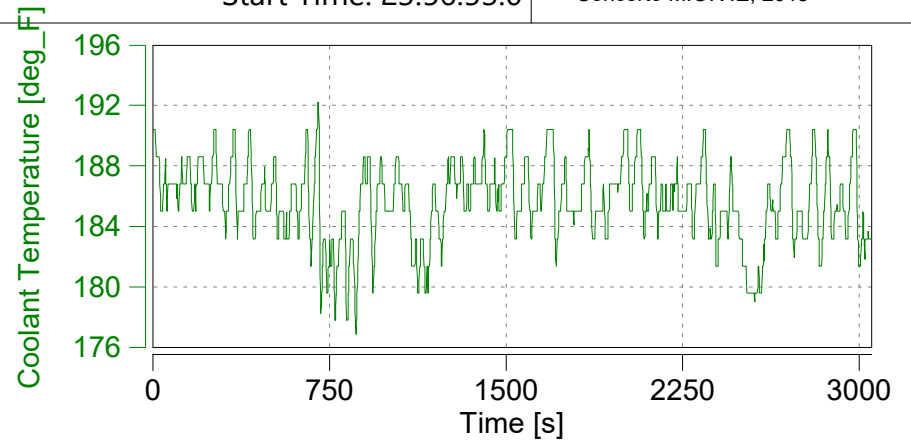
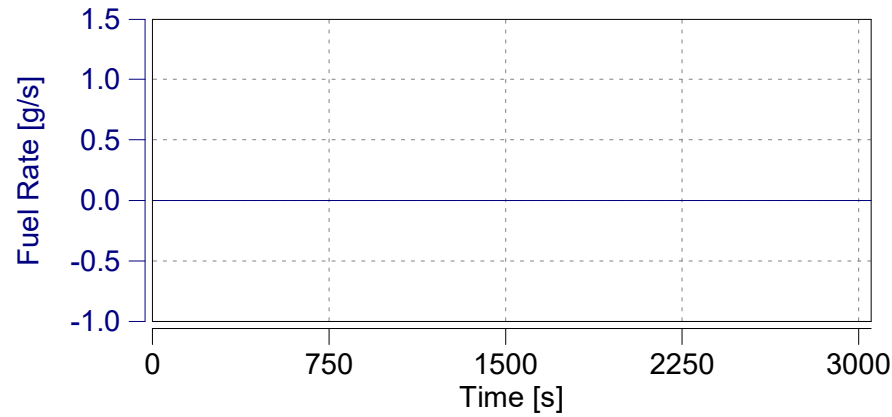
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

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

Case: City

Page: Exhaust Flow (1)

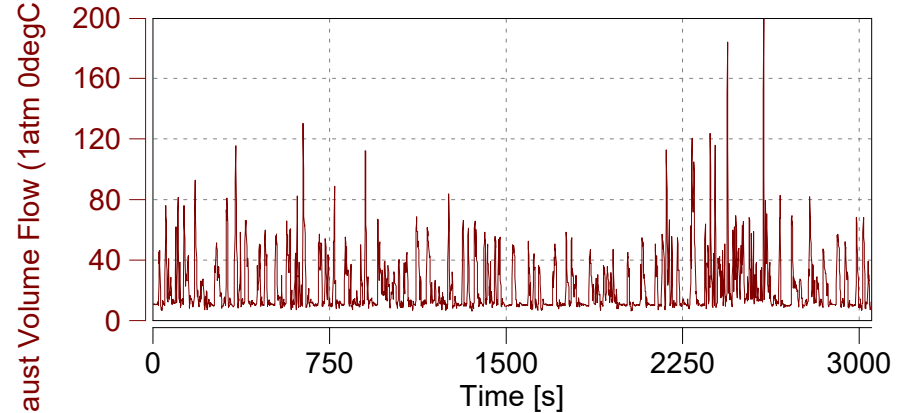
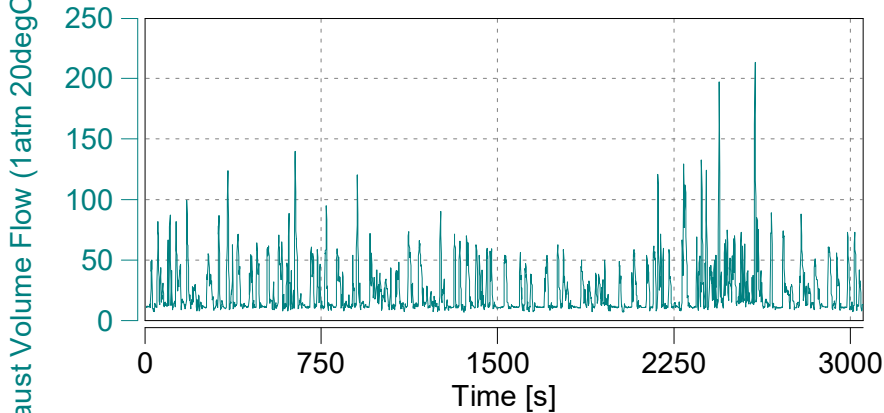
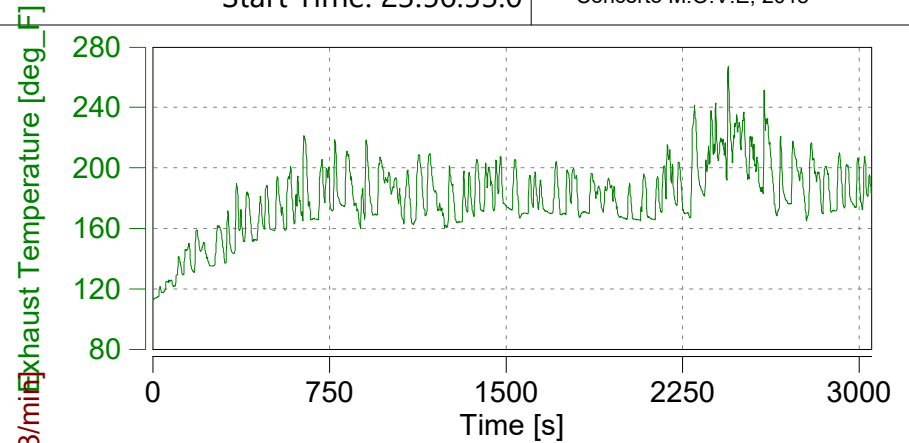
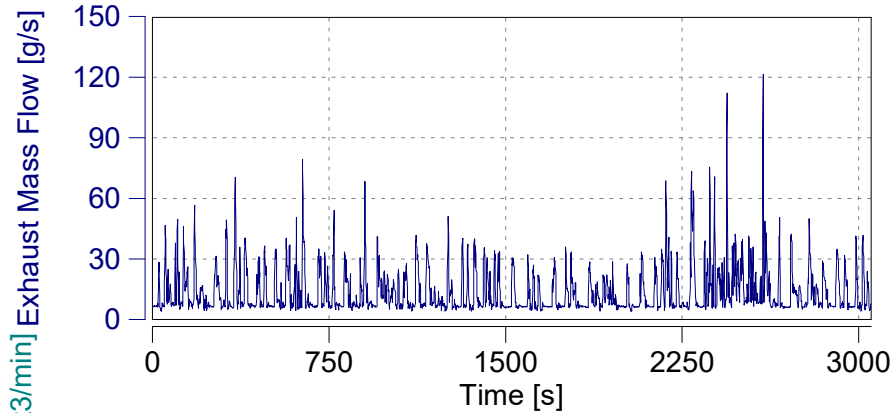
'City'

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)

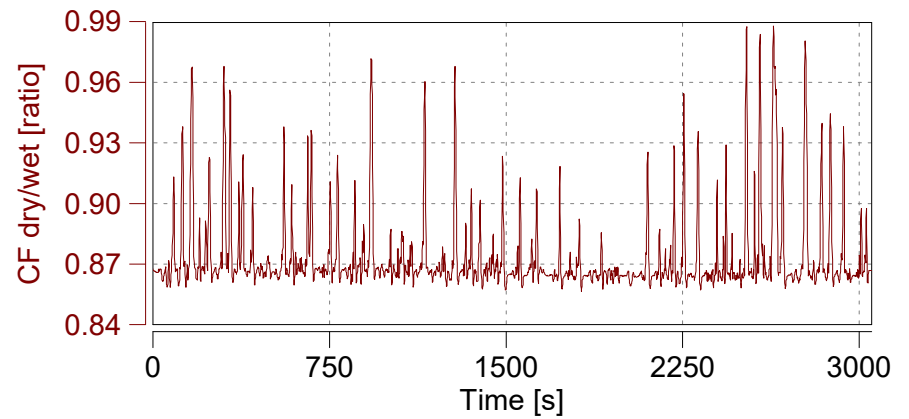
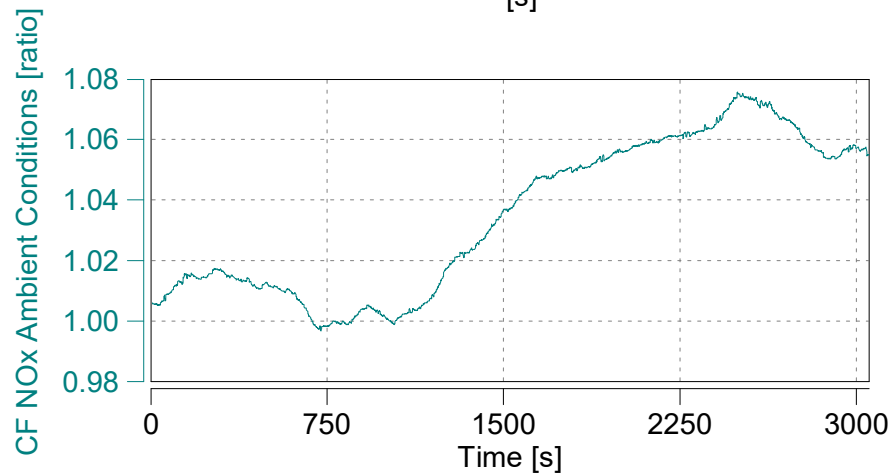
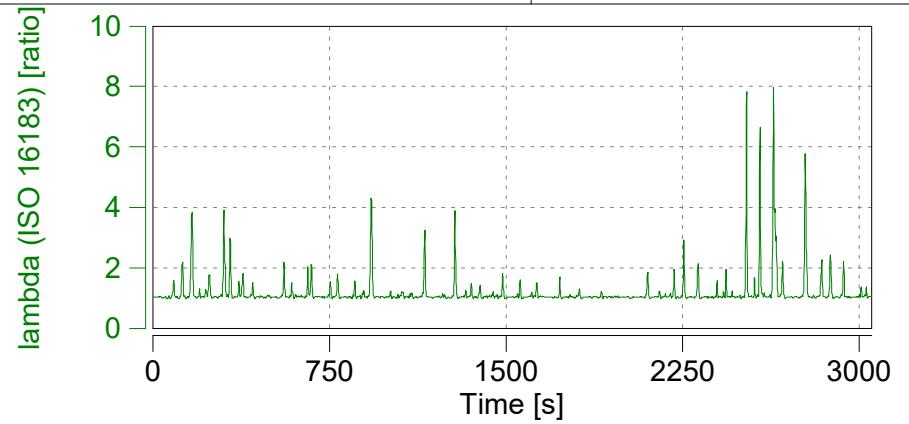
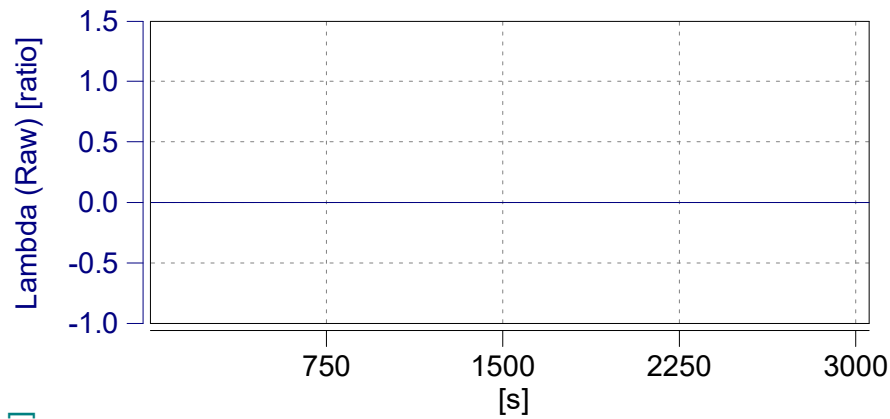
'City'

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)

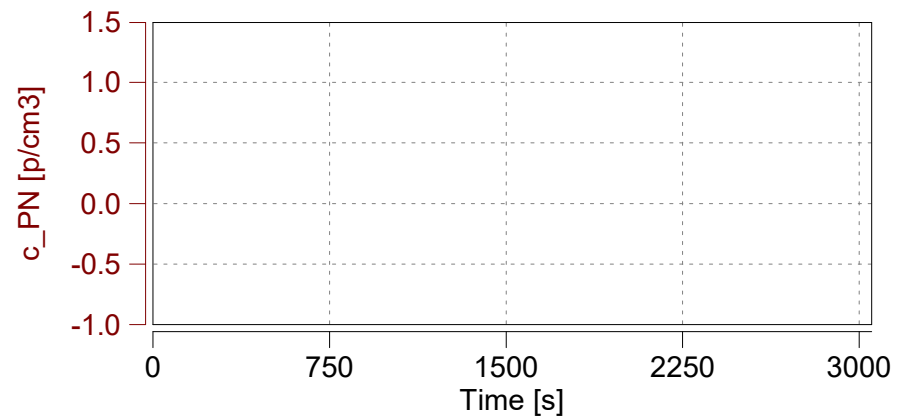
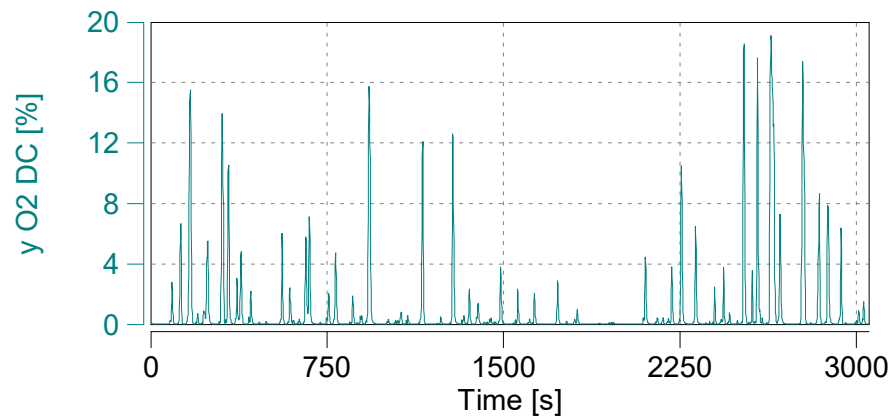
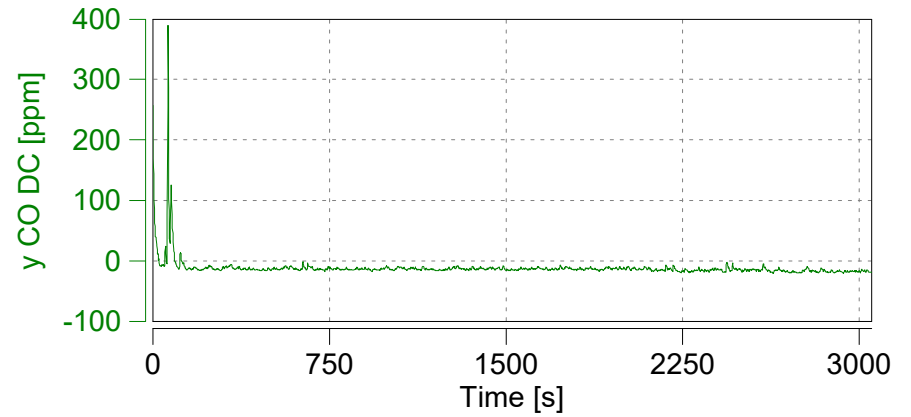
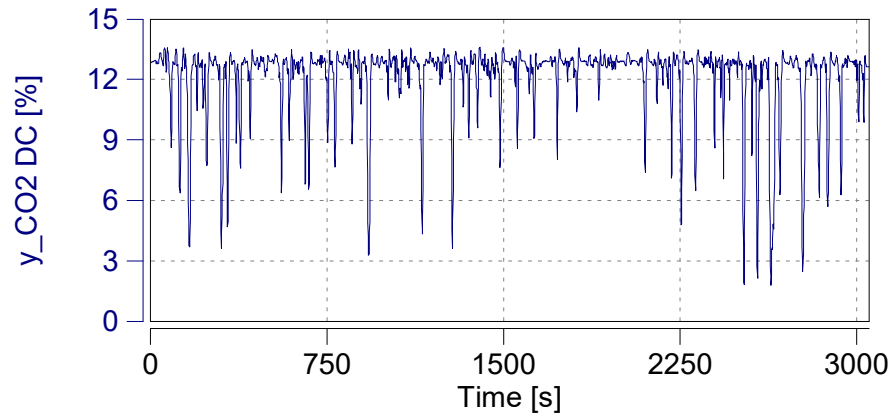
'City'

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)

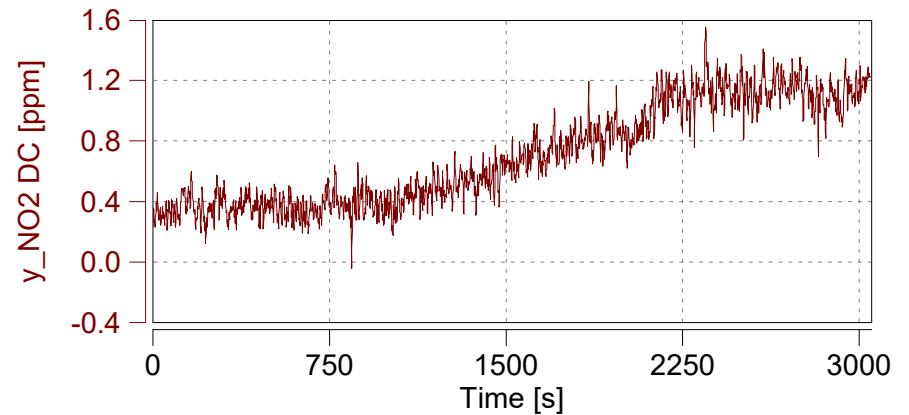
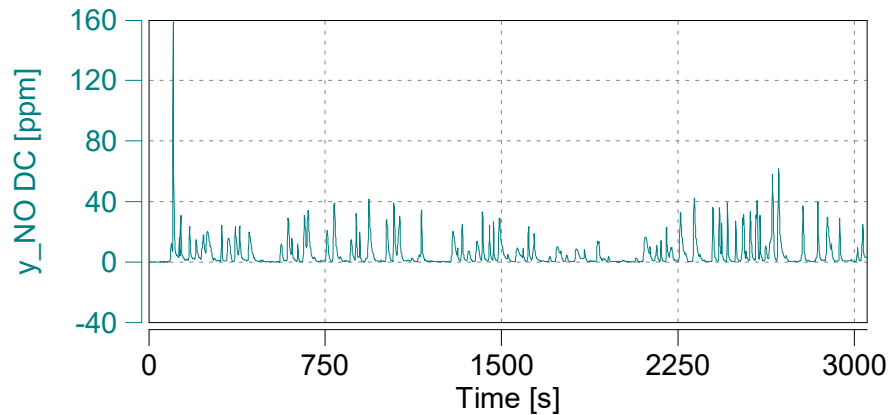
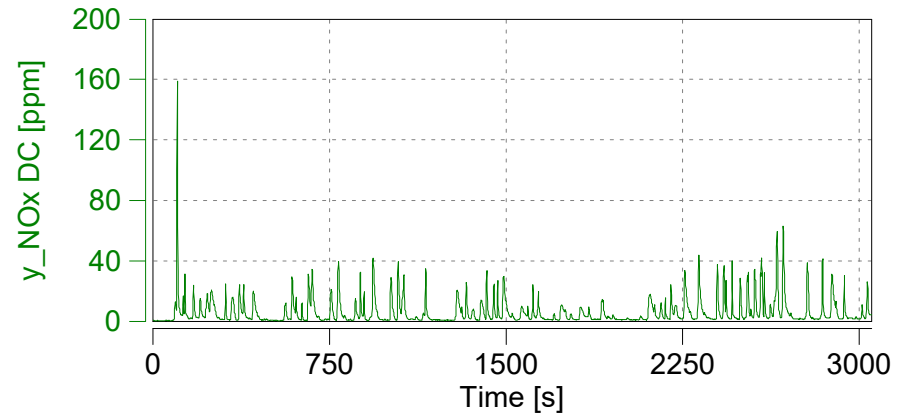
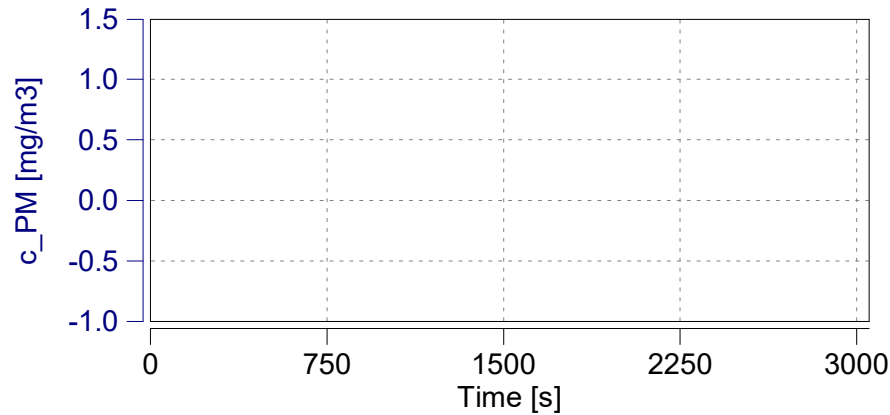
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0

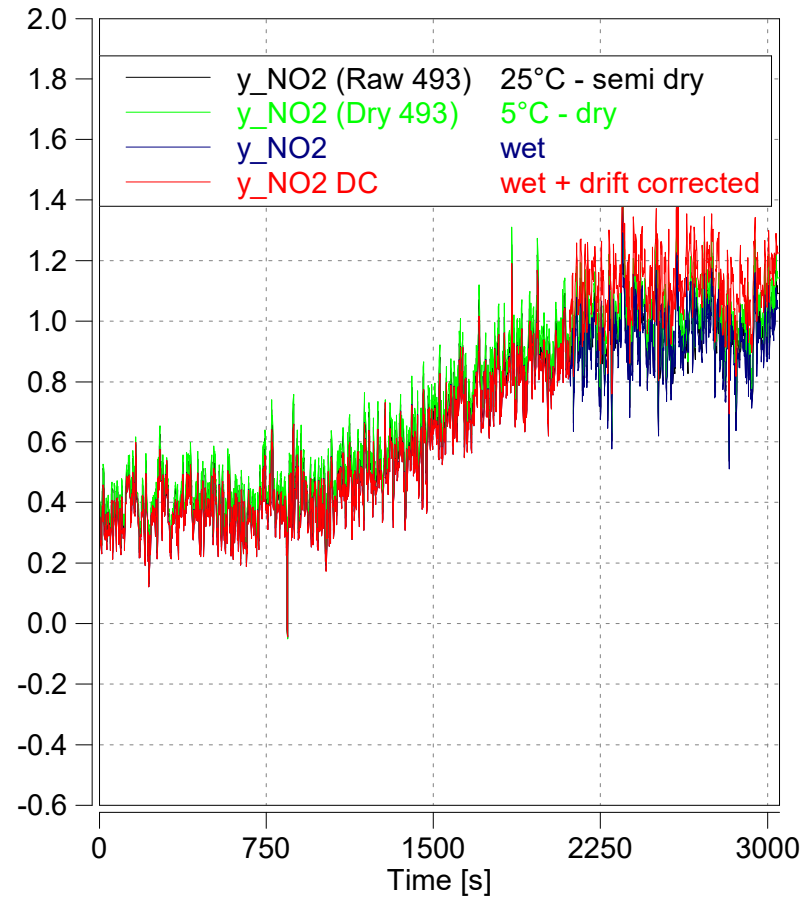
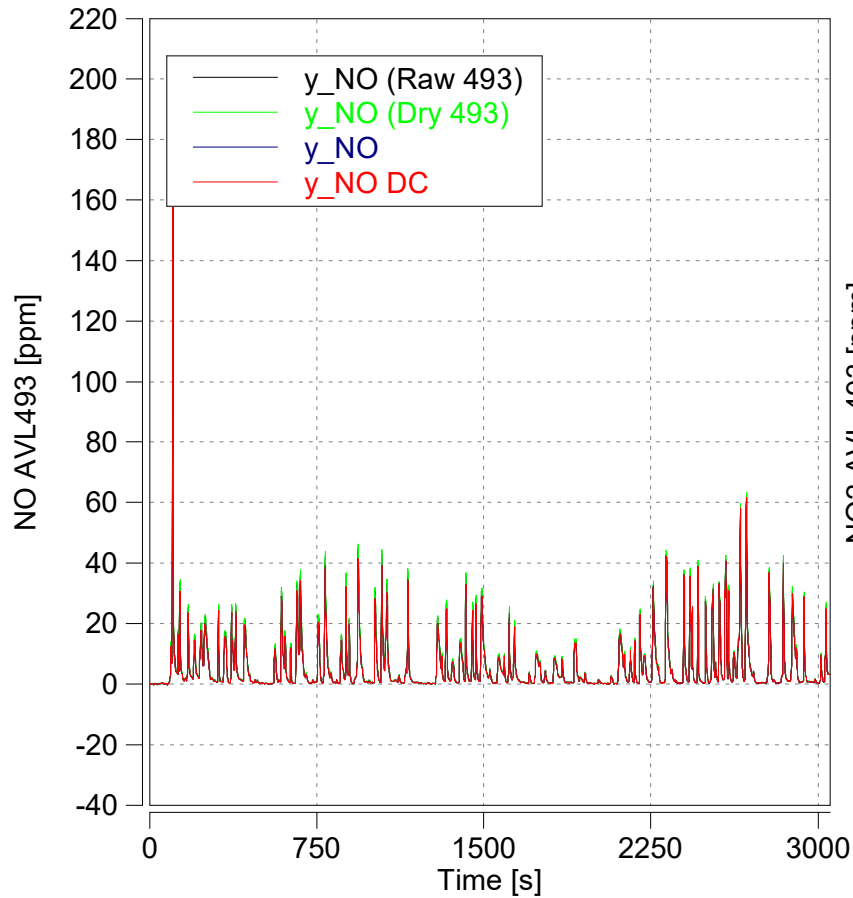


Concerto M.O.V.E., 2018



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

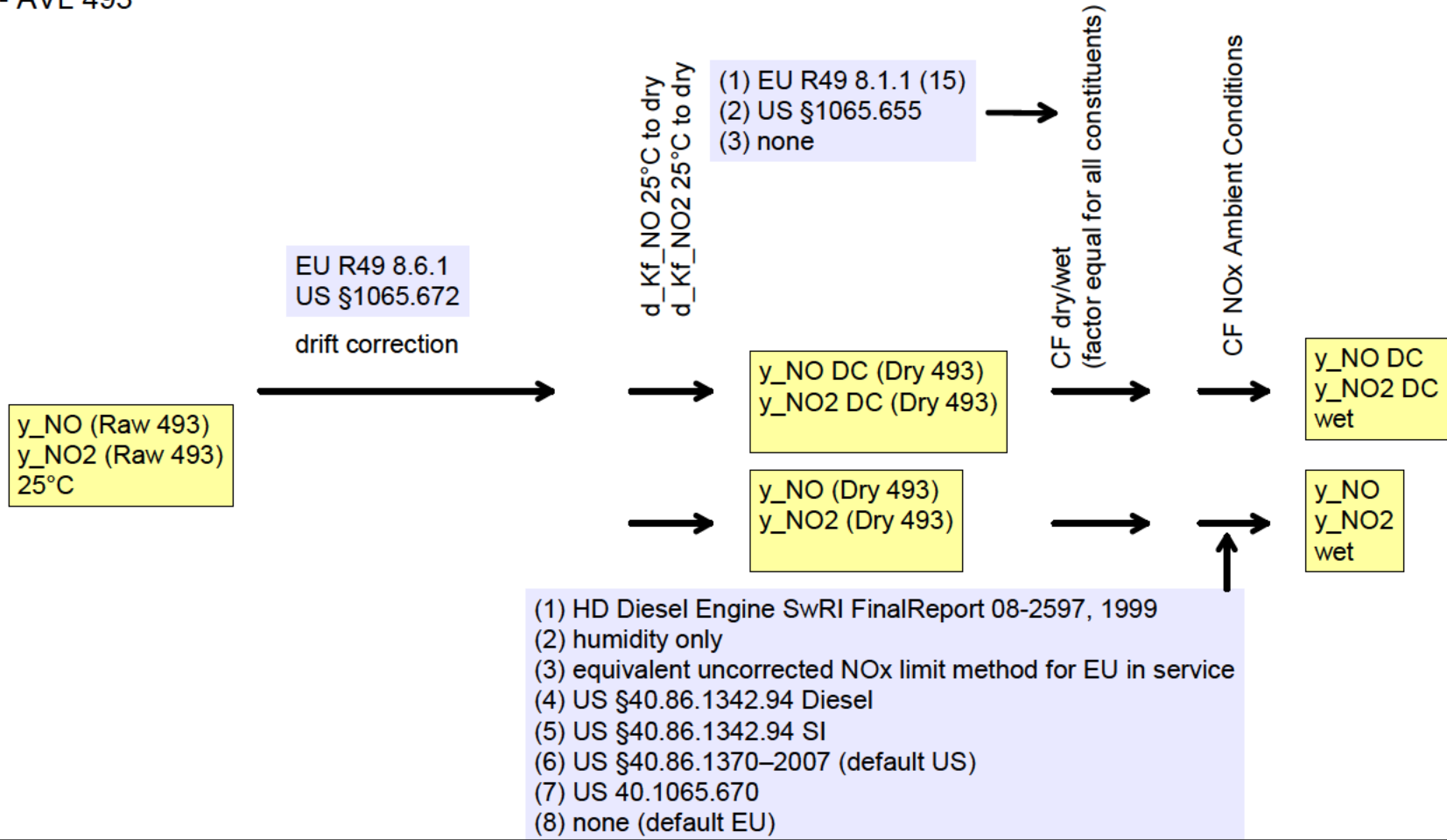


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



Concerto Version: 480 Build 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 (5)

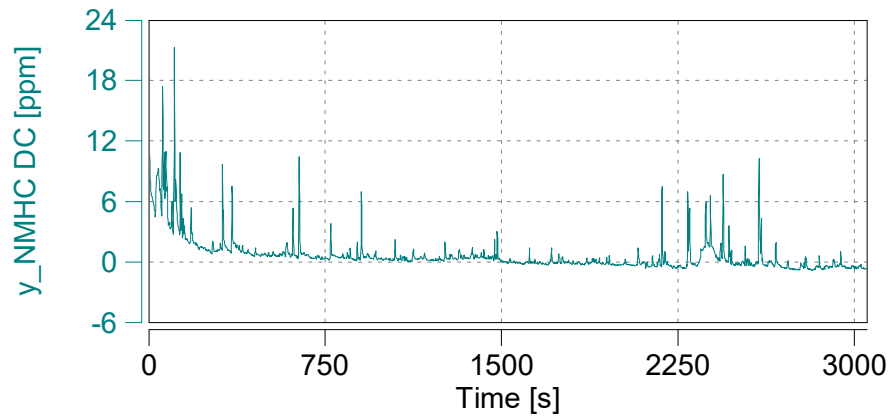
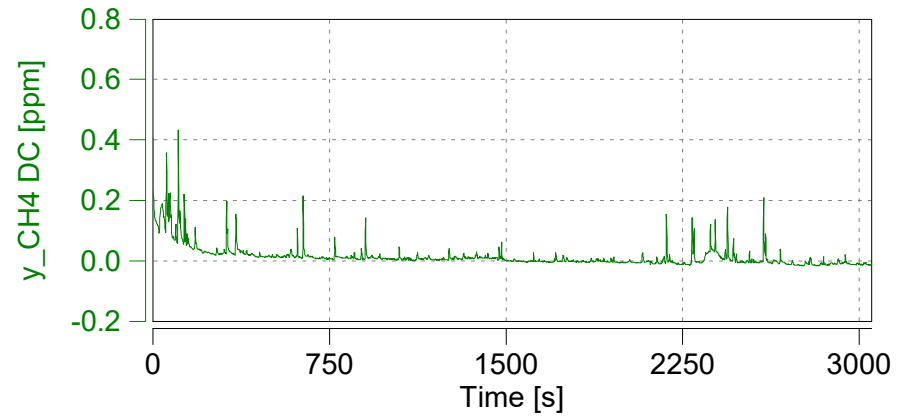
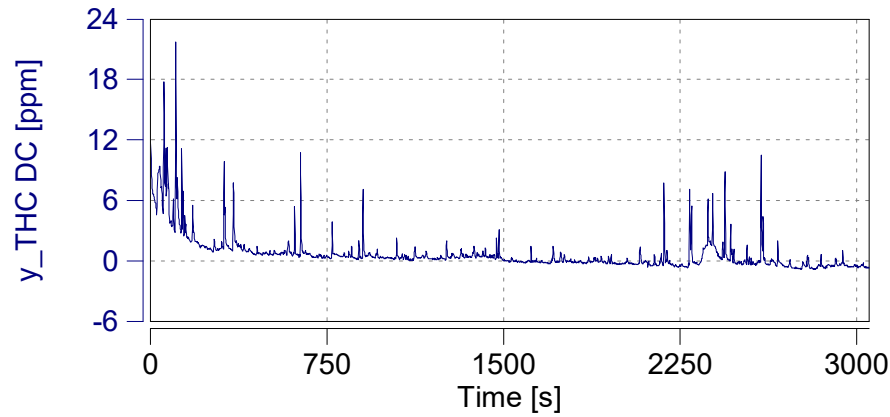
'City'

Start Date: 07/24/2019

Start Time: 23:56:53.0

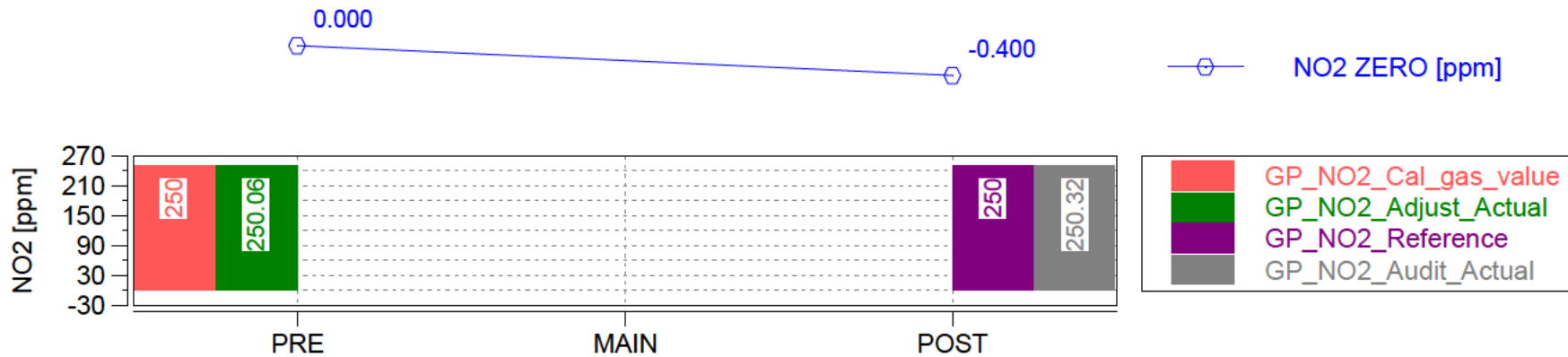
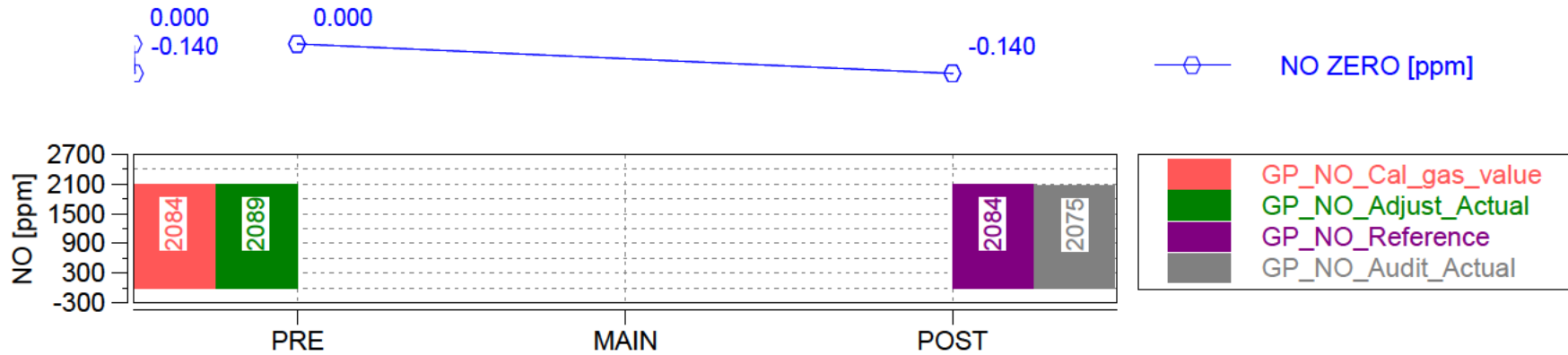


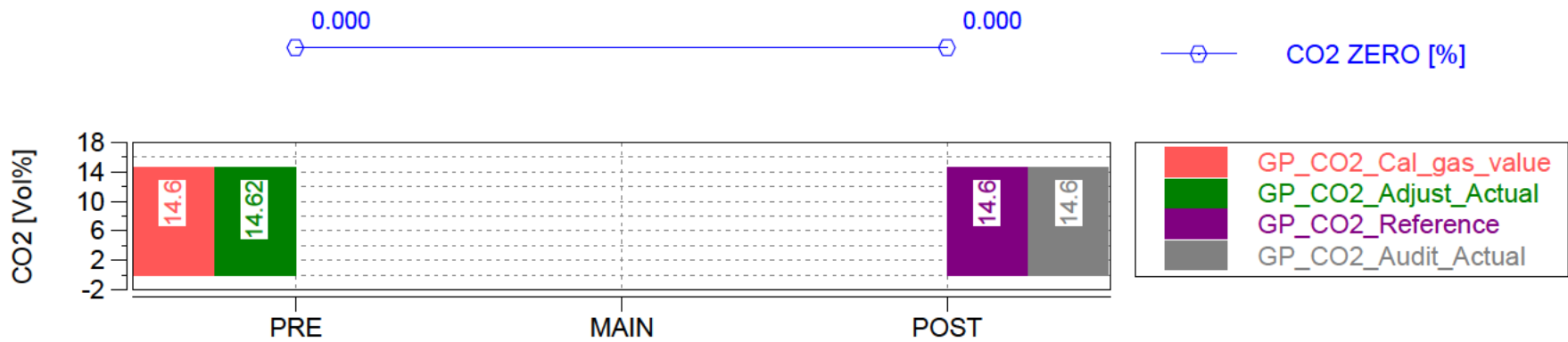
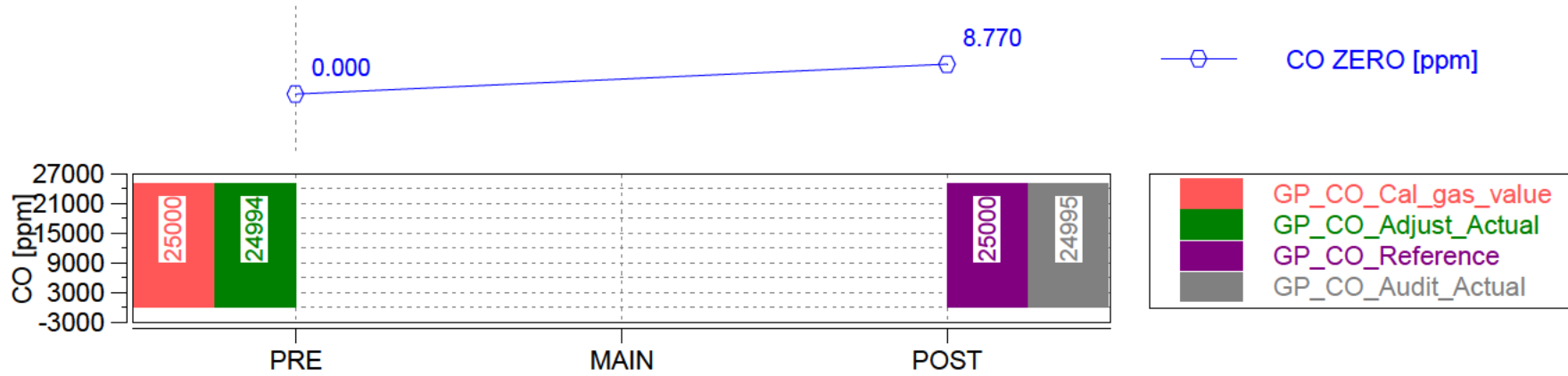
Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120
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

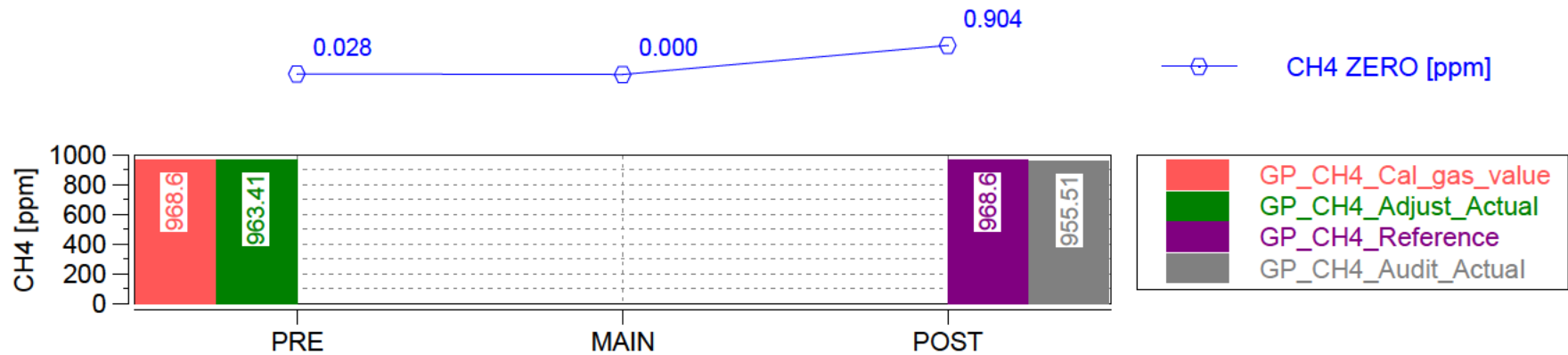
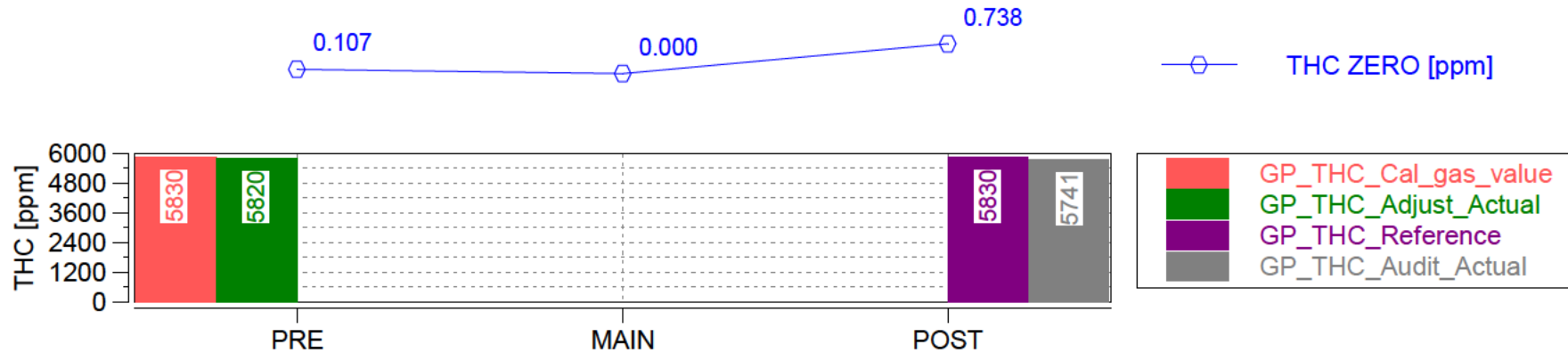
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6 L

Engine: /

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

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



Concerto Version: 480 Build 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
			ave CO2	12.43462	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx	3.85262	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)	5.09	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. US (ac)	5.03	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	0.13738	g	BS PN	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.80	gall	tot NMHC	0.12708	g			
Trip Fuel Cons. Volume US (ac)	1.78	gall	tot CH4	0.00304	g	DS CO2	388.92076	g/mi
			tot CO	2.45241	g	DS CO	0.06222	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2	15330.43084	g	DS THC	0.00349	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO (d)	0.25922	g	DS NMHC	0.00322	g/mi
Trip Fuel Economy EU (ac)	21.92	mpg_US	tot NO2	0.05986	g	DS CH4	0.00008	g/mi
Trip Fuel Economy US (ac)	22.17	mpg_US	tot NOx	0.31908	g	DS NO (d)	0.00658	g/mi
			tot Soot	n/a	g	DS NO2	0.00152	g/mi
Trip Av. Eng. Speed	1549.12	rpm	tot Soot meas	n/a	g	DS NOx	0.00809	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	79.23	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	87.93	deg_F				FS NMHC	n/a	g/kg
Trip Av. Humidity	42.10	%	Trip Av. Veh. Speed	42.71654	mi/hr	FS CH4	n/a	g/kg
			Trip Velocity Zero	4.45515	%	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: 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

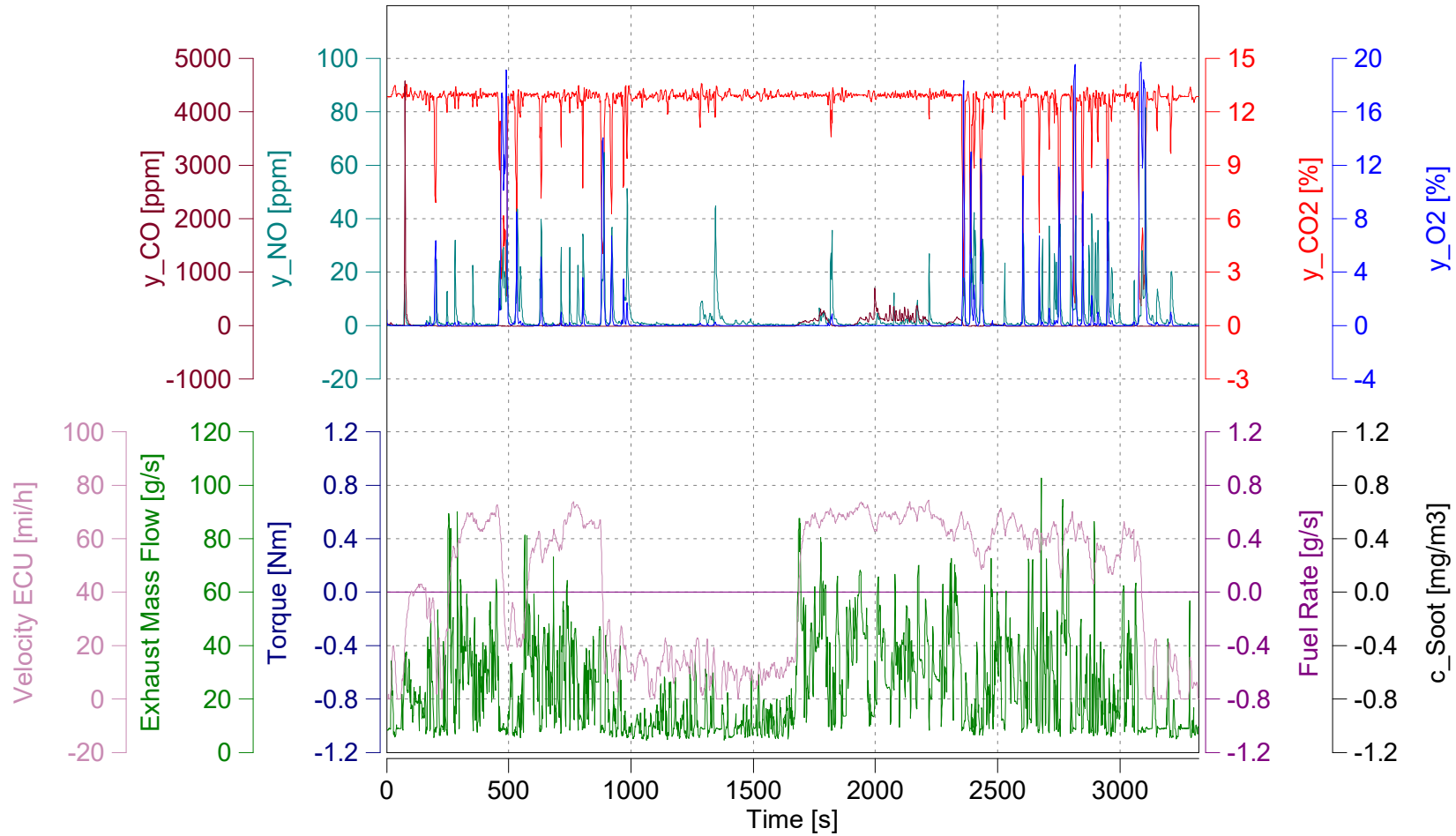
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Vehicle: Atlas / 3.6L

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

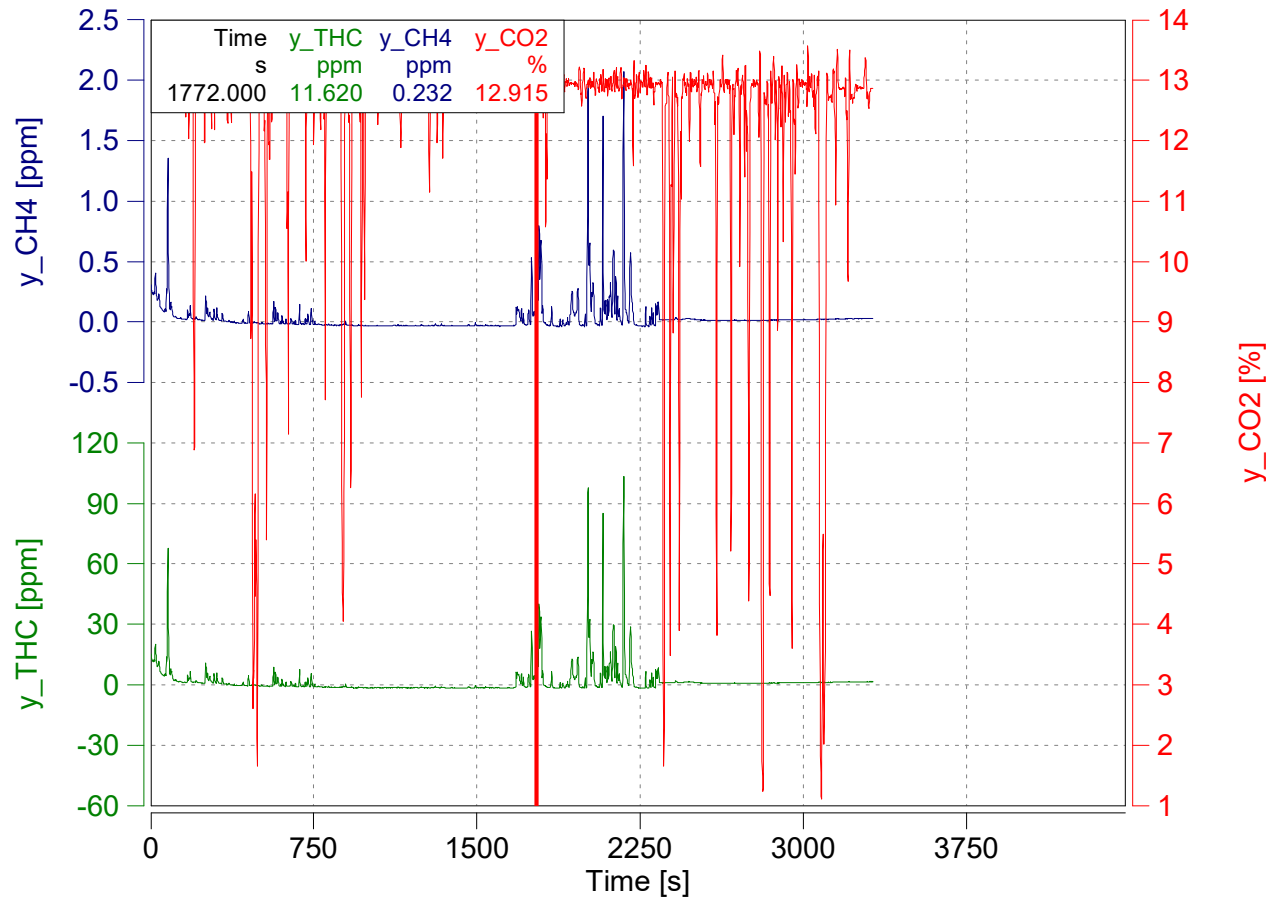
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Vehicle: Atlas / 3.6L

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: Highway

Page: Ambient Conditions

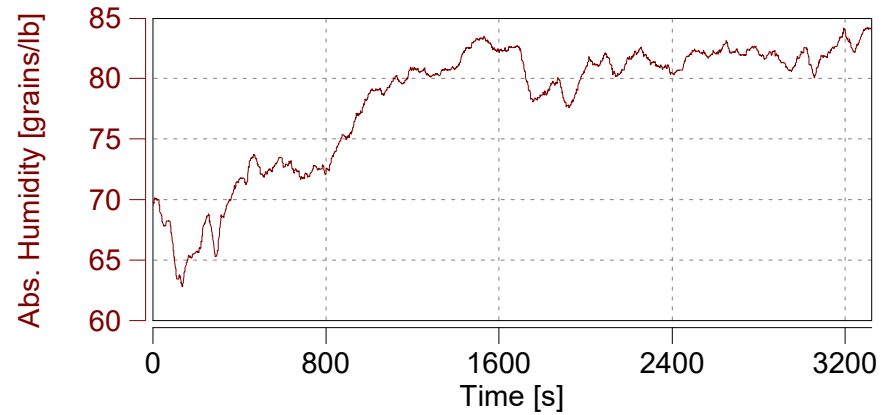
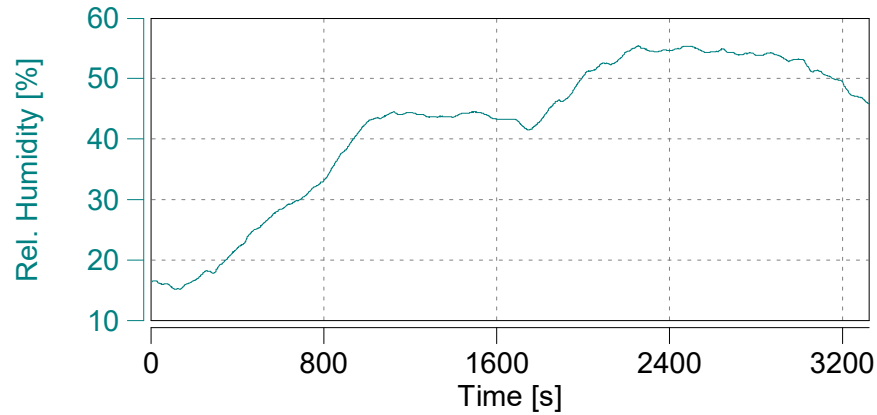
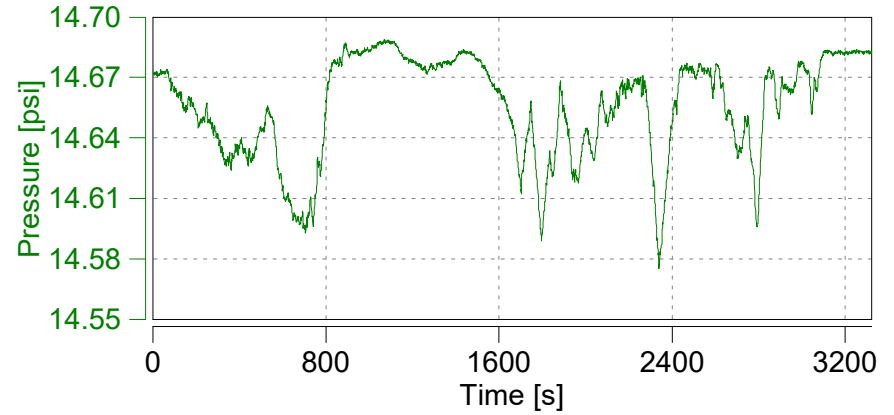
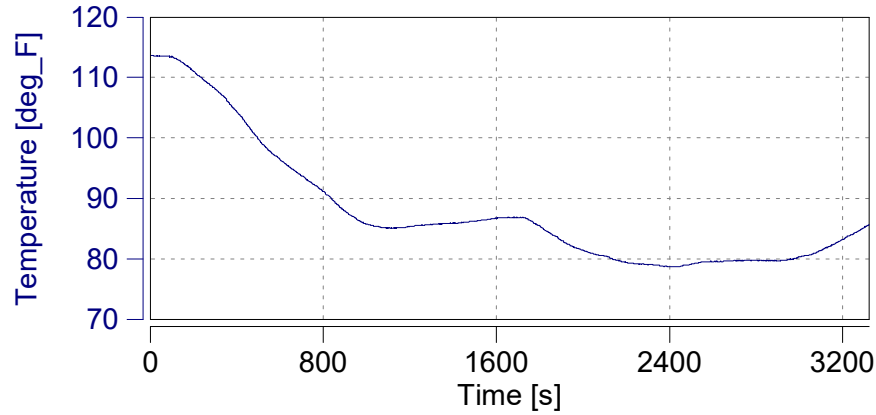
'Highway'

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

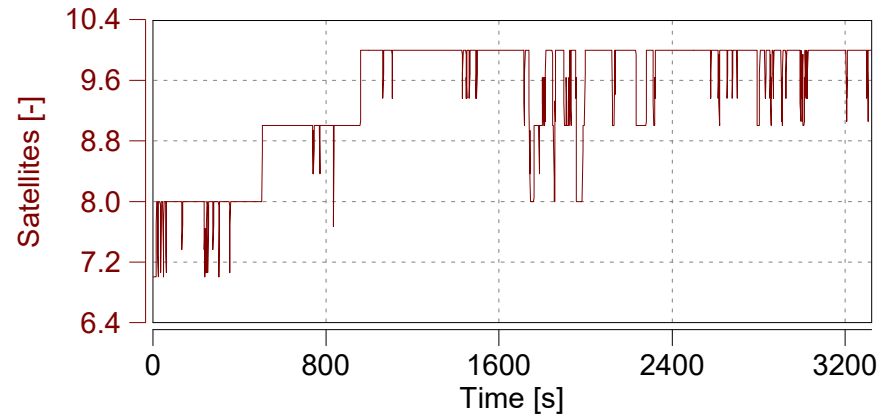
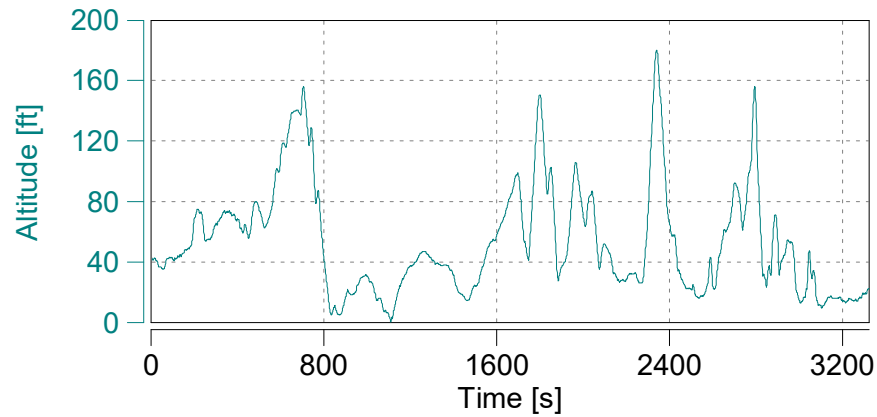
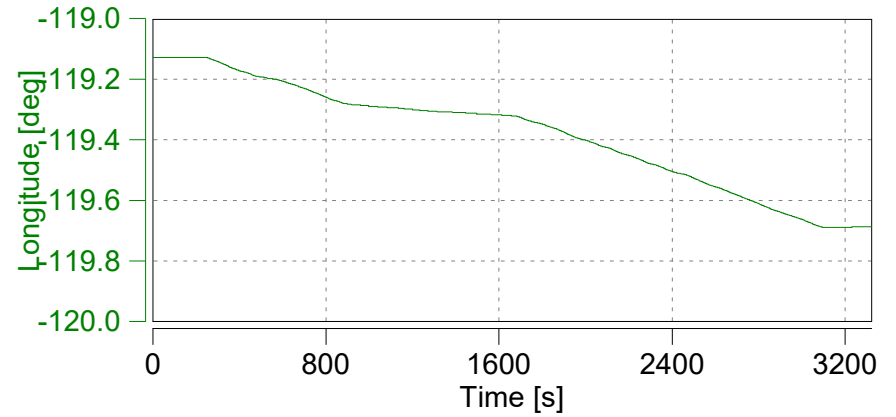
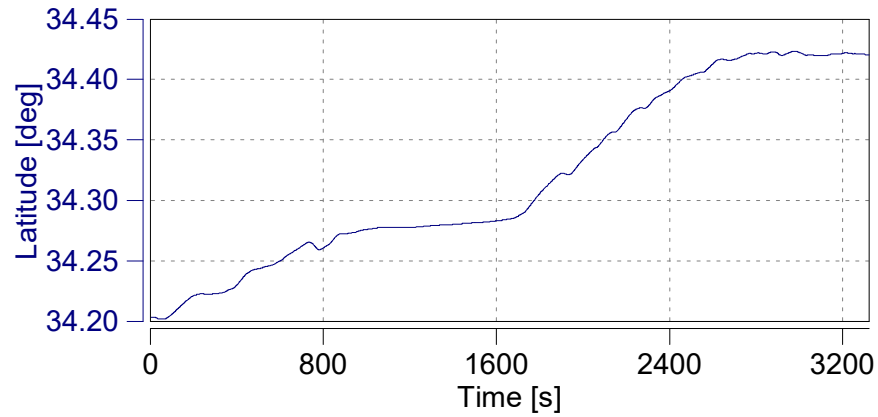
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0

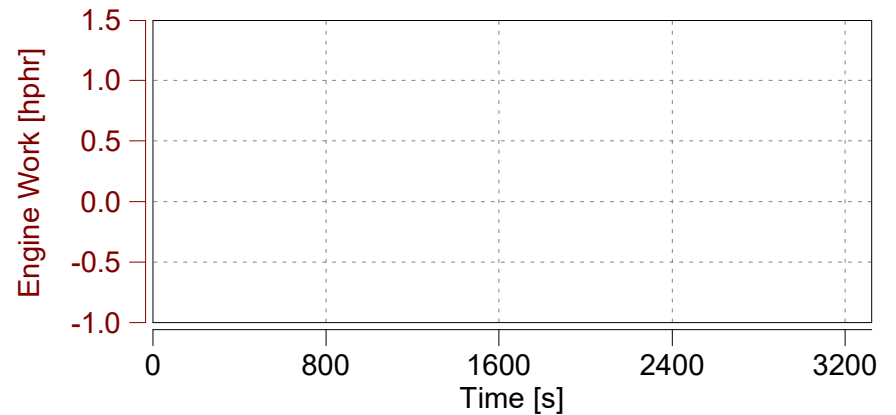
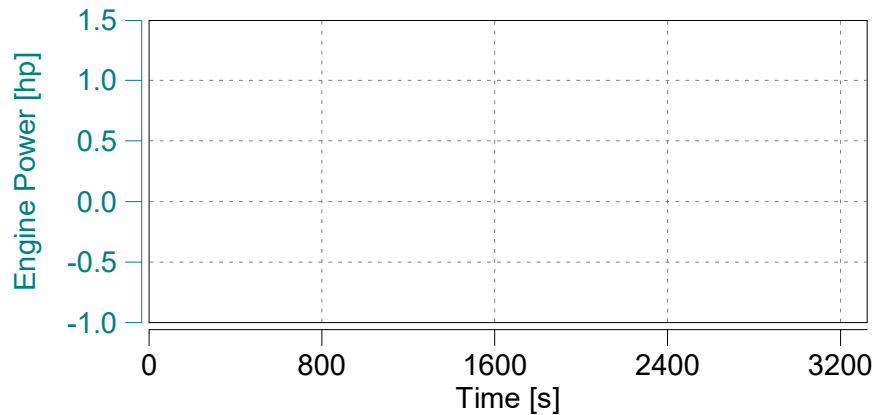
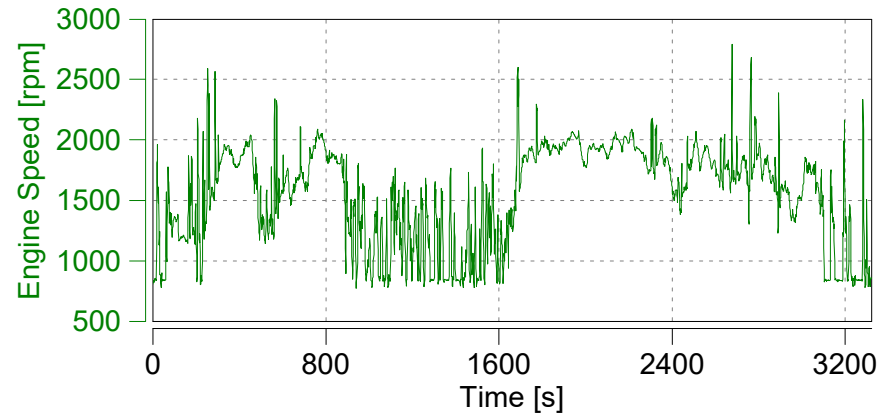
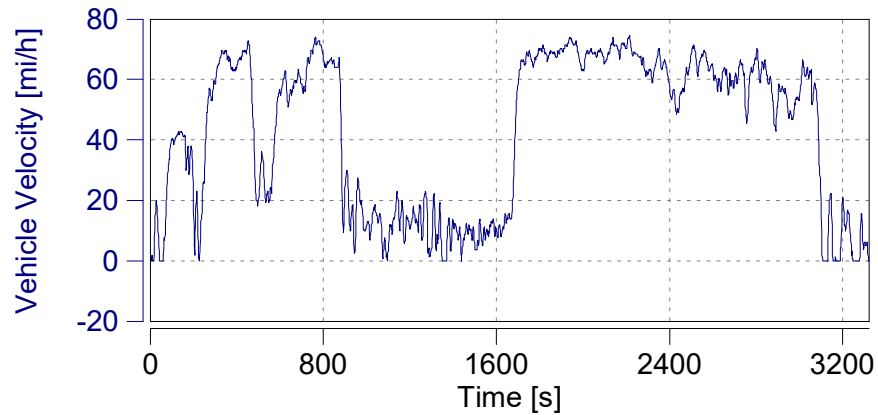


Concerto M.O.V.E., 2018



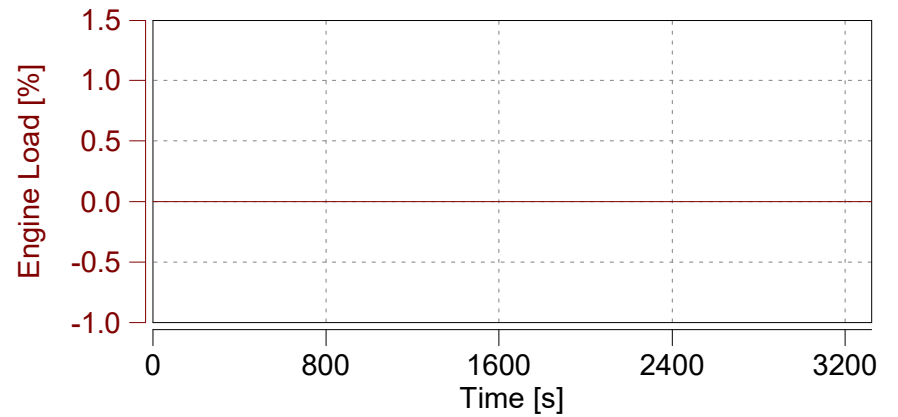
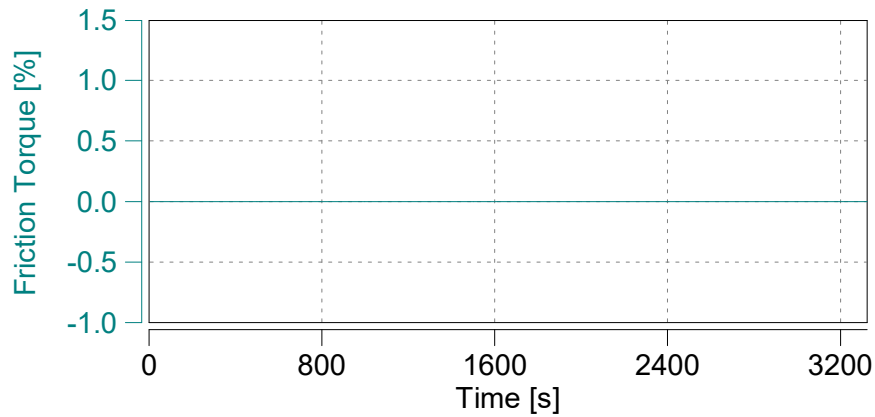
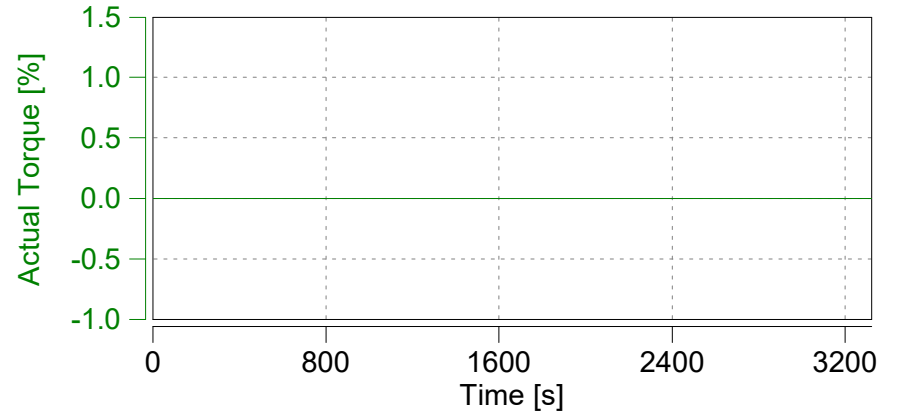
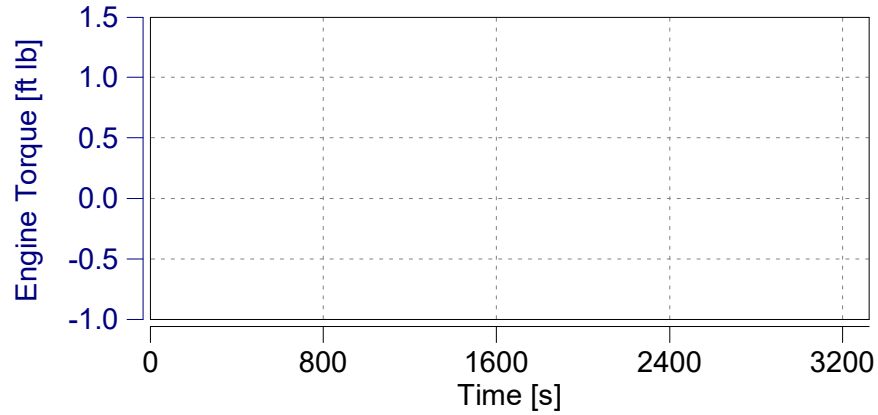
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

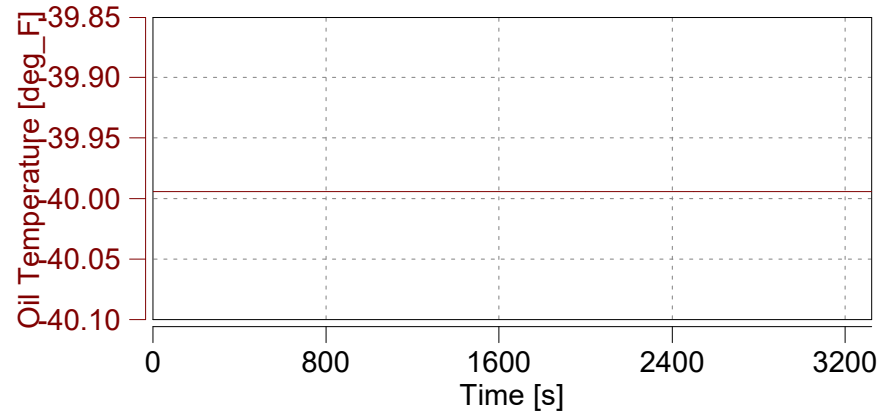
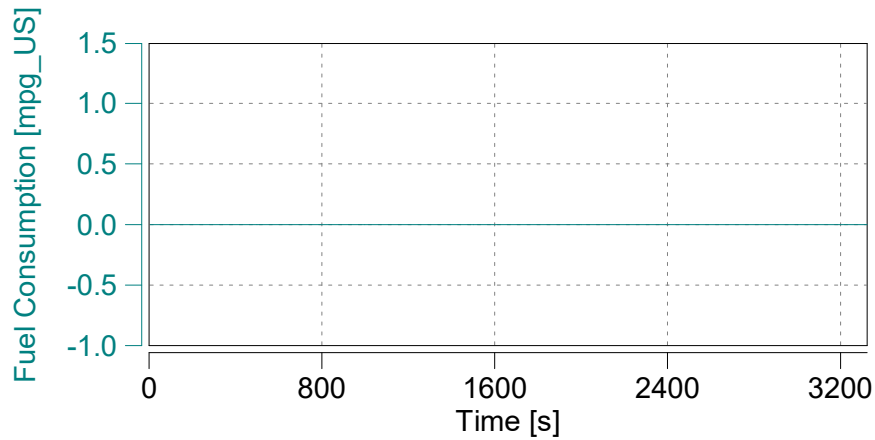
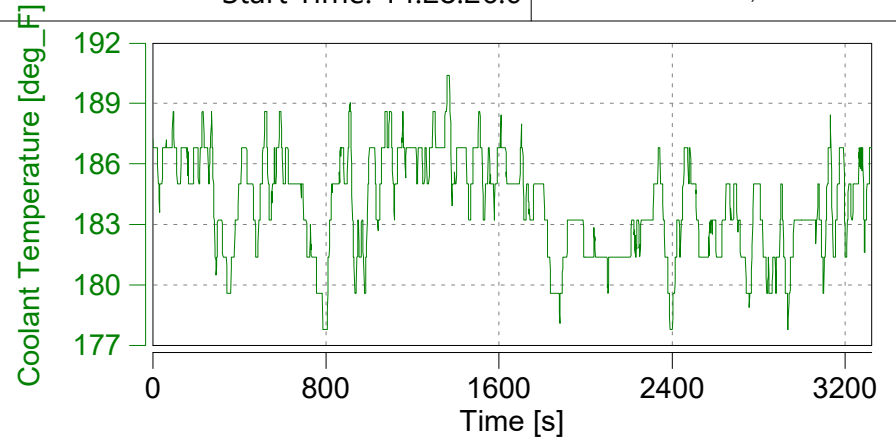
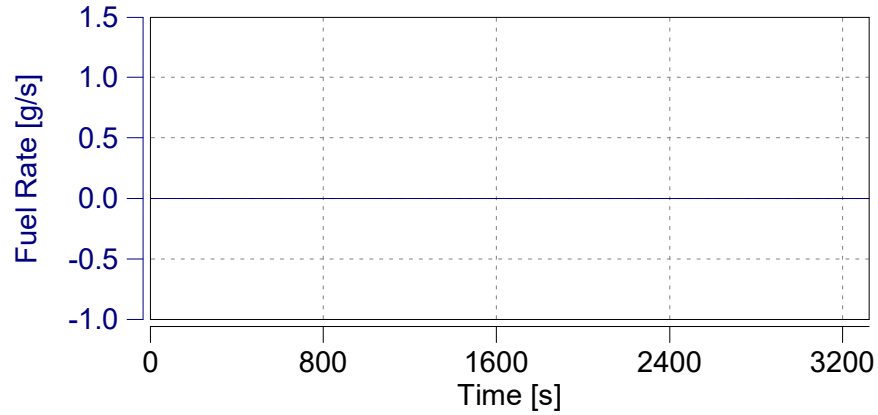
Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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





Concerto Version: 480 Build 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)

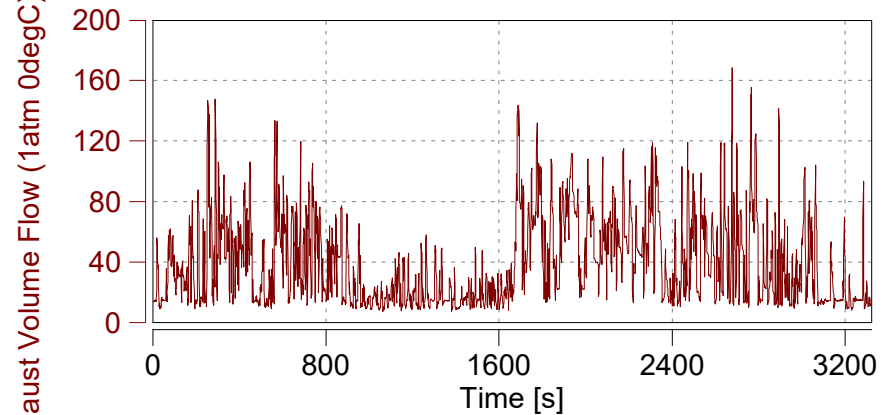
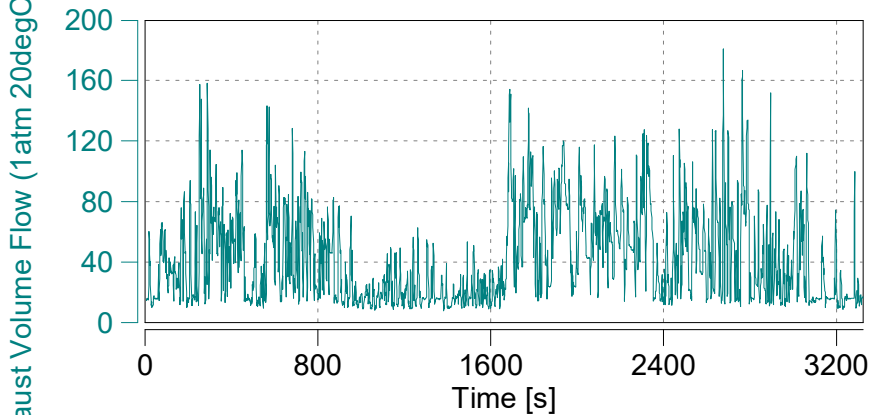
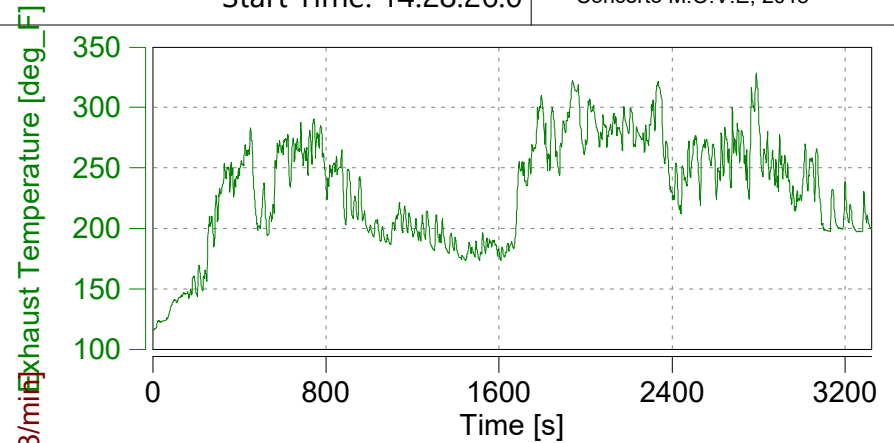
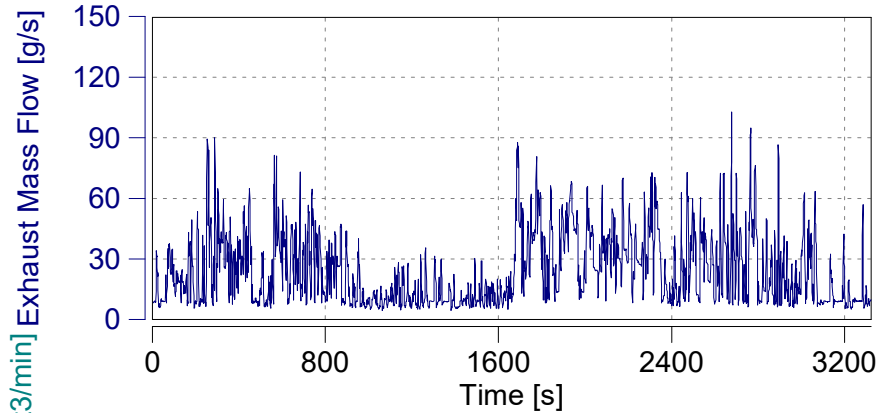
'Highway'

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)

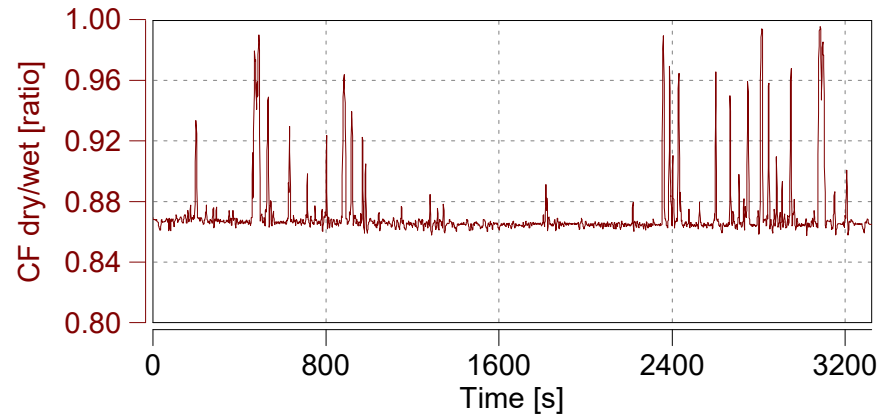
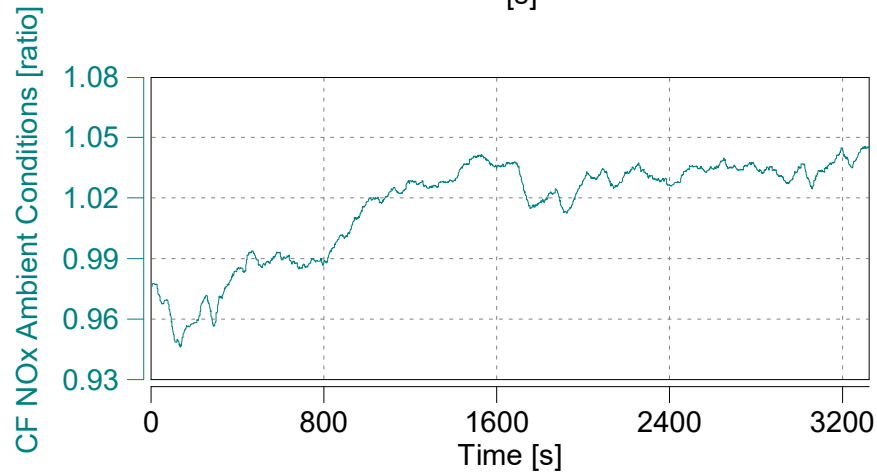
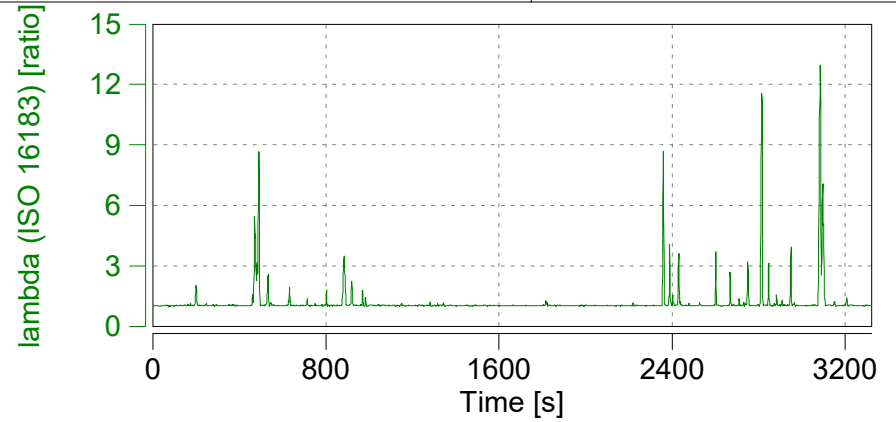
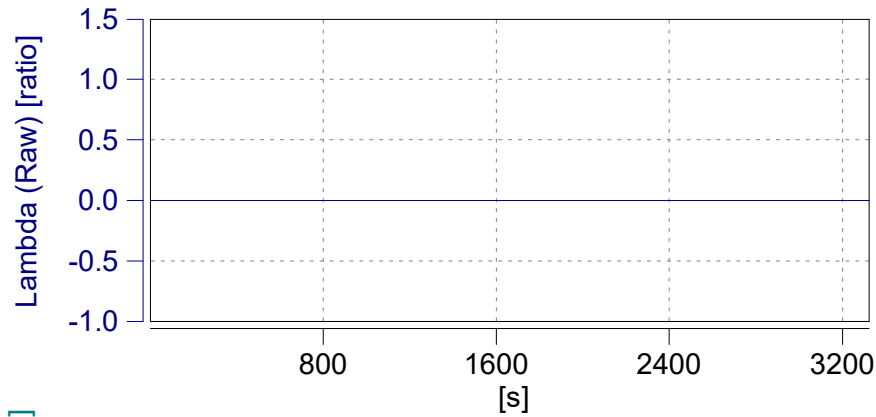
'Highway'

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)

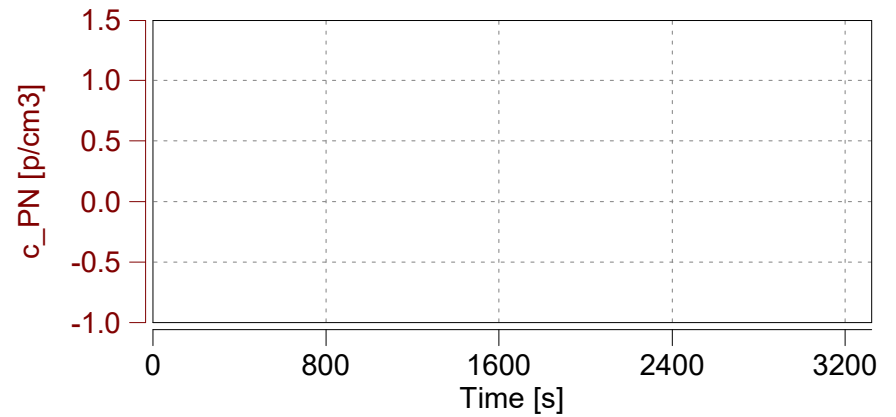
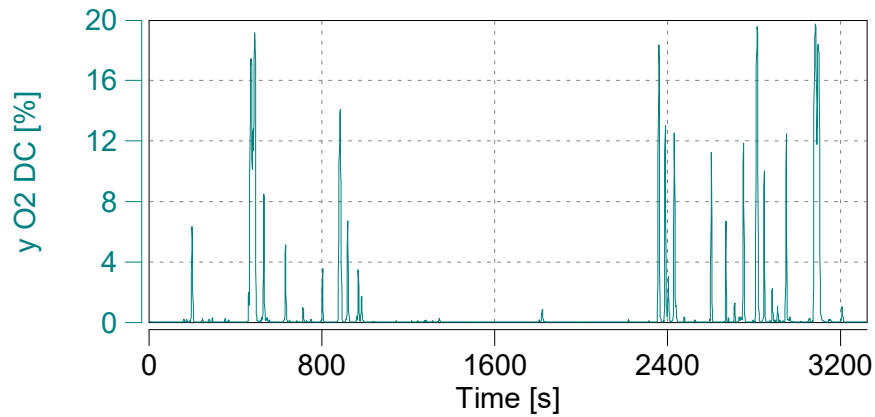
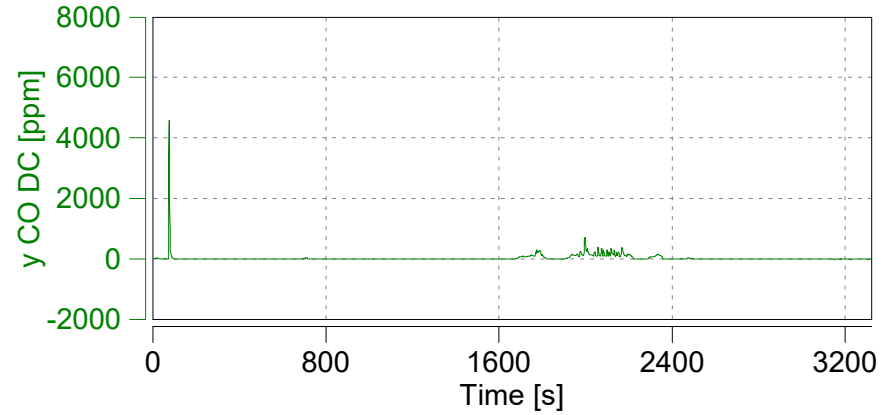
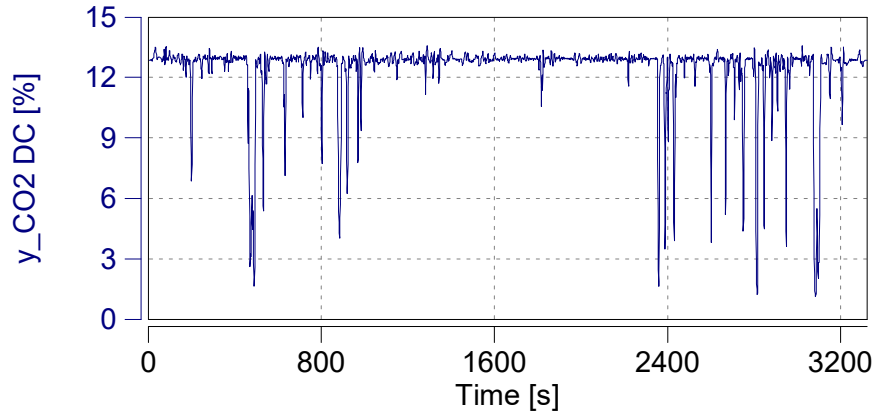
'Highway'

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)

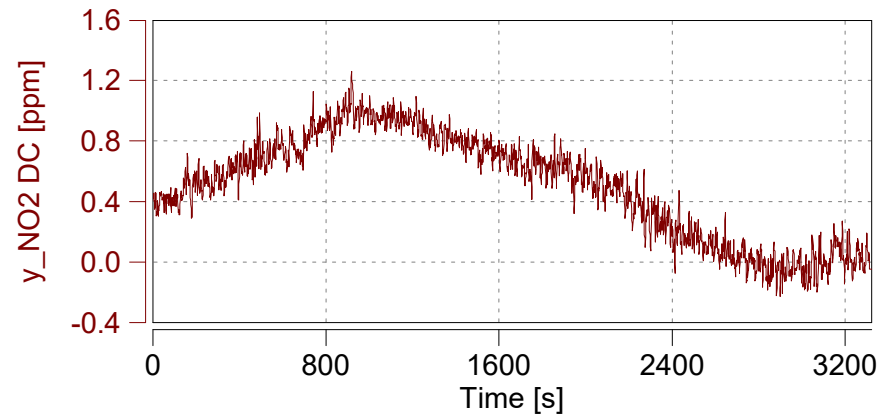
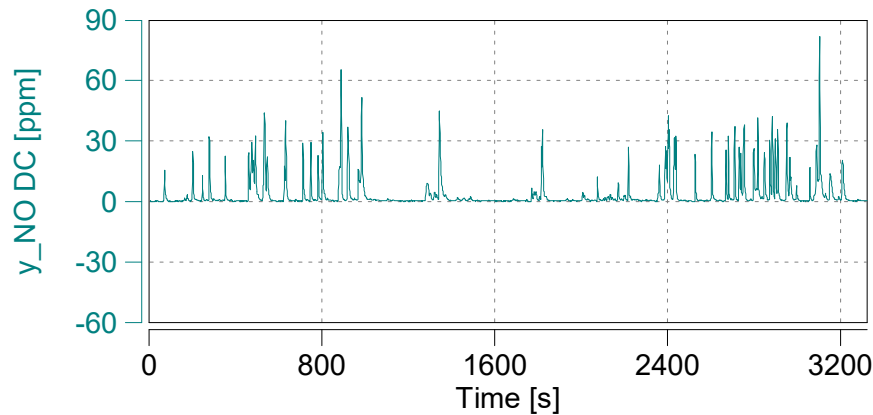
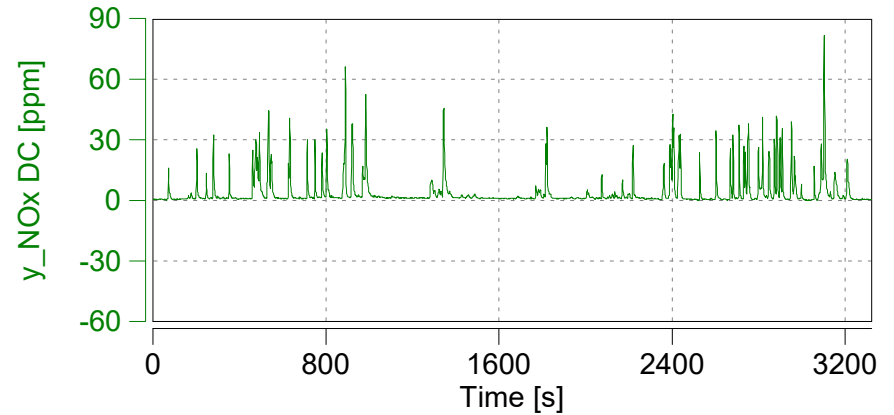
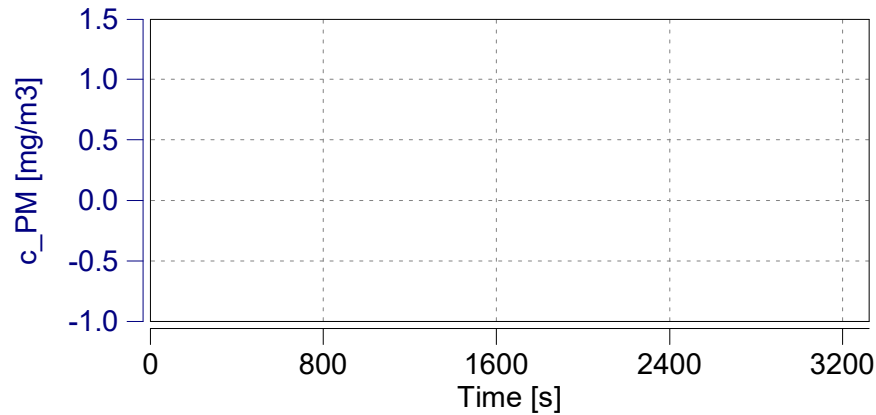
'Highway'

Start Date: 07/24/2019

Start Time: 14:28:26.0

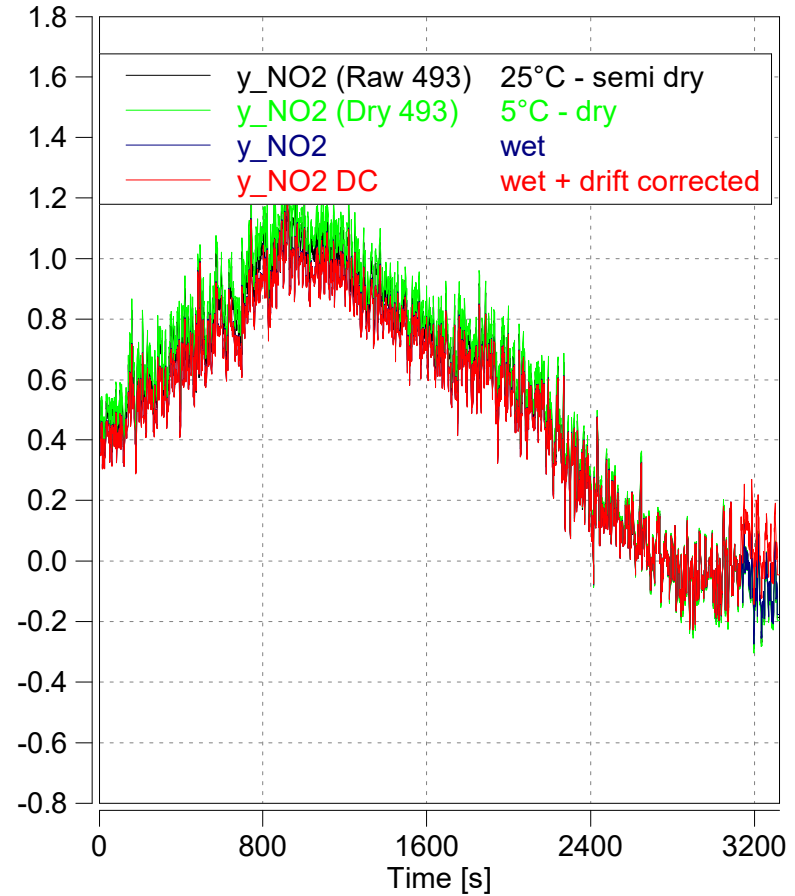
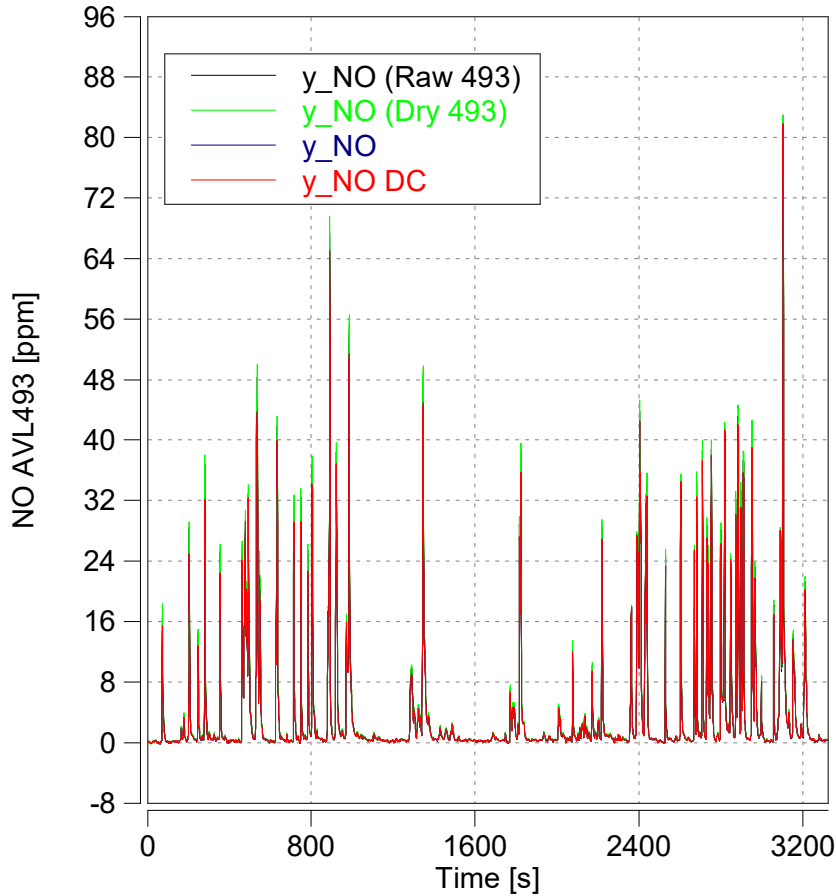


Concerto M.O.V.E., 2018



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

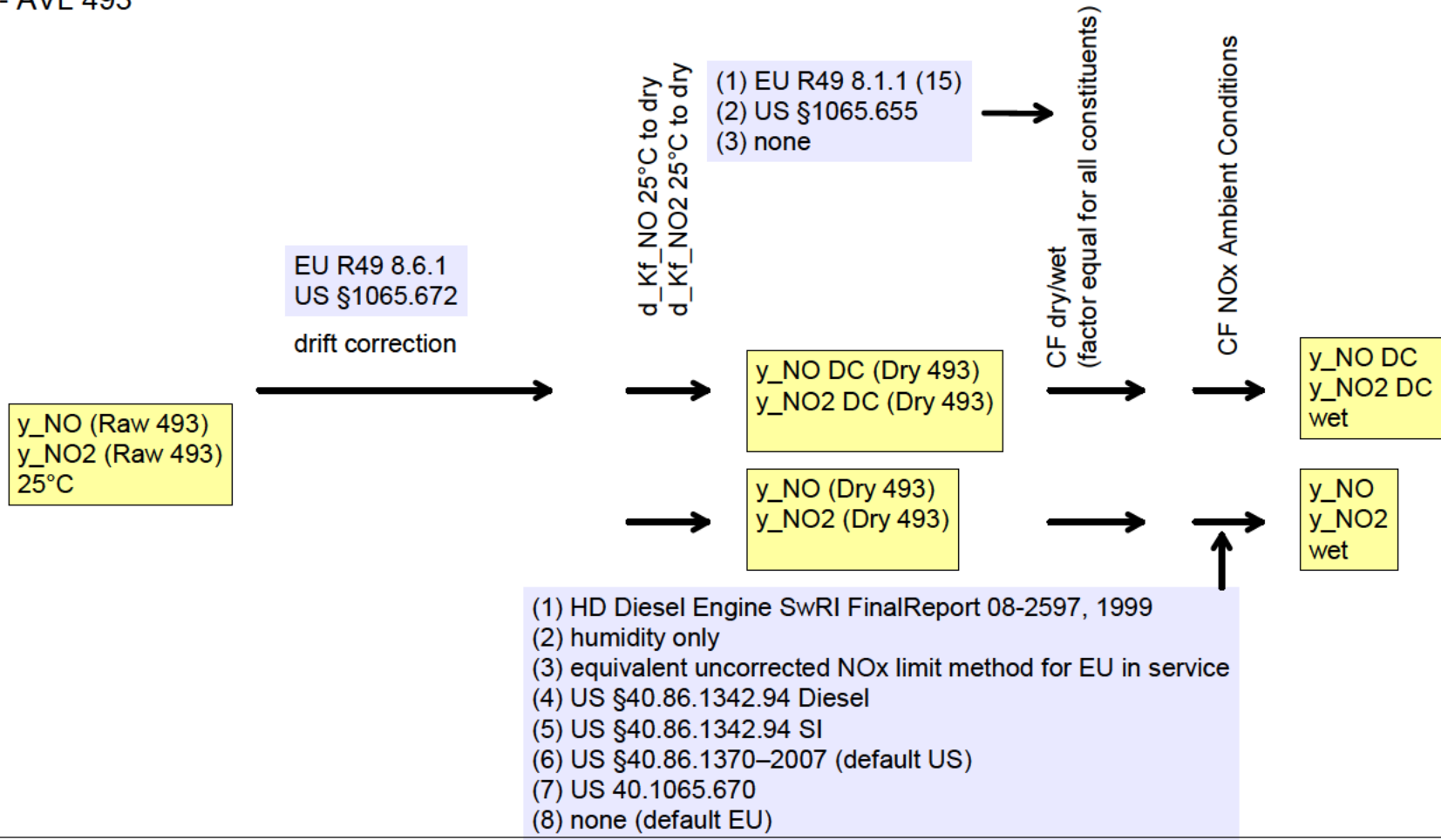


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

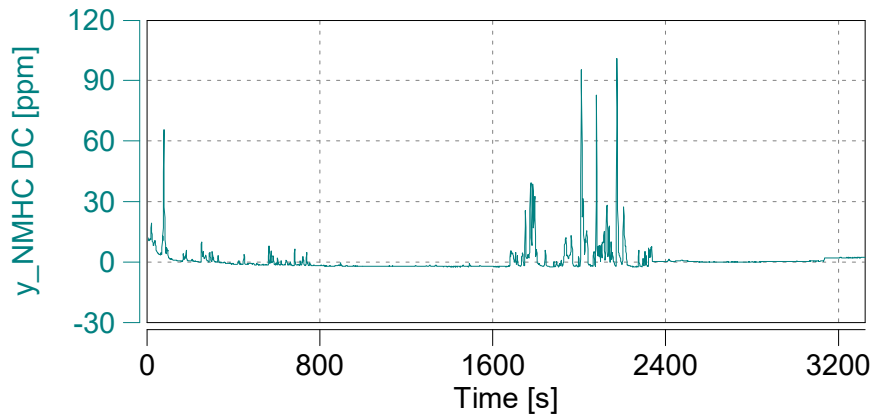
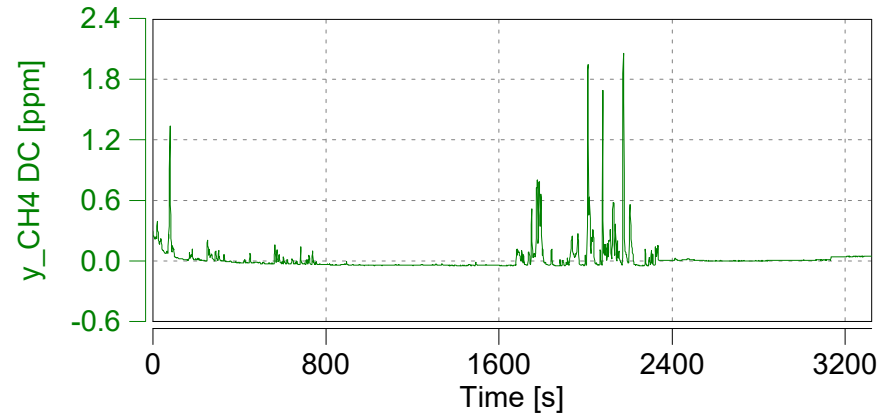
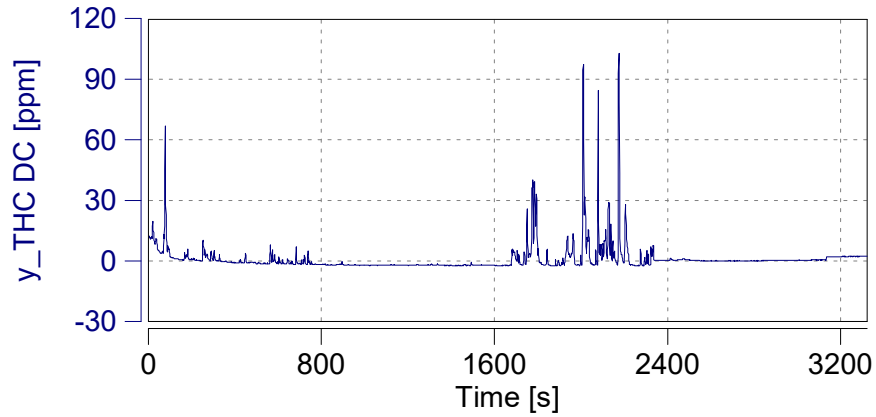
'Highway'

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

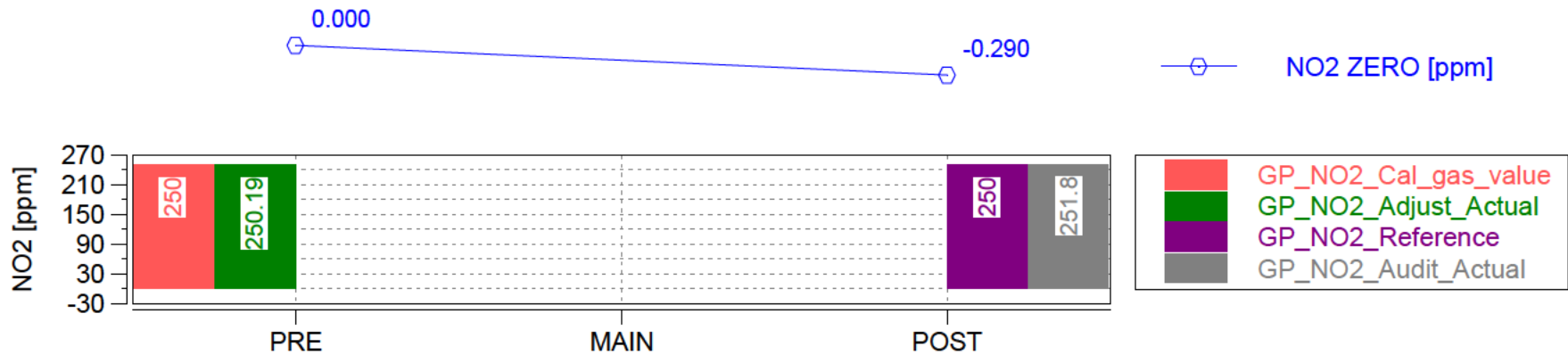
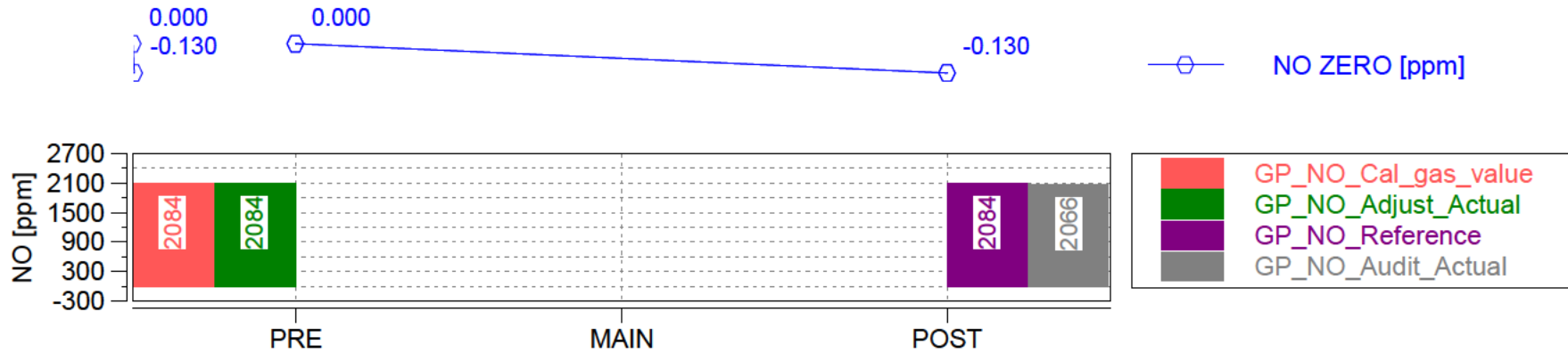
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Vehicle: Atlas / 3.6L

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

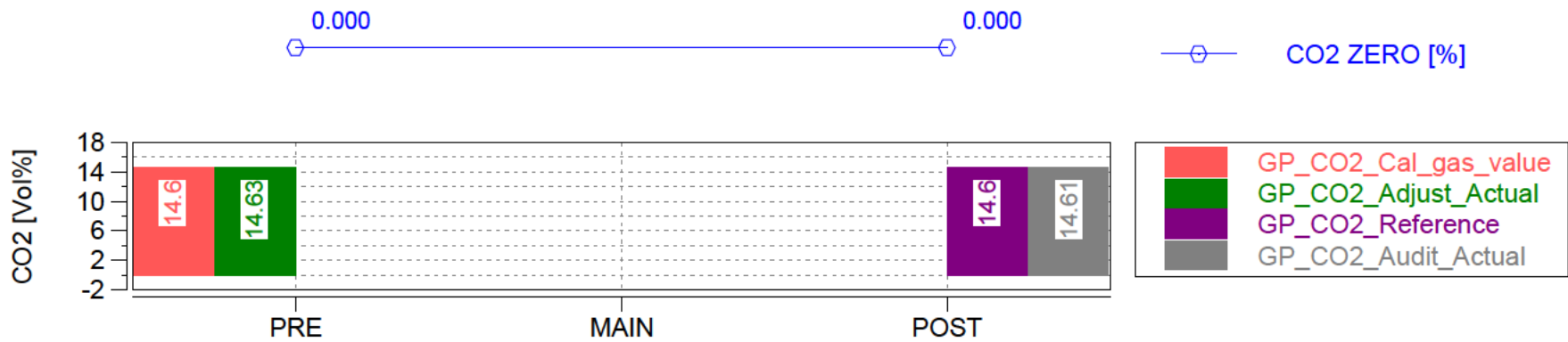
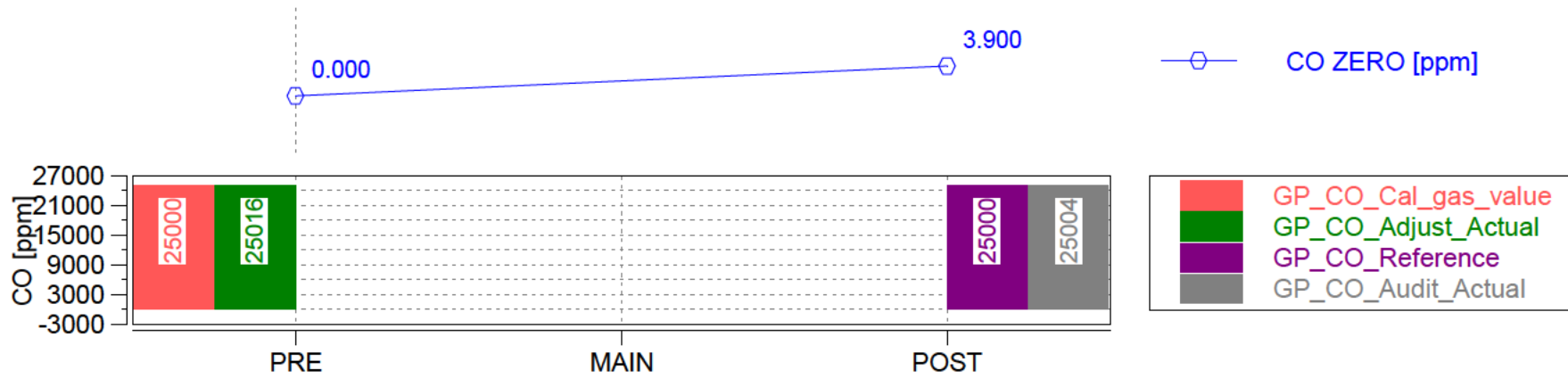
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Atlas / 3.6L

Engine: /

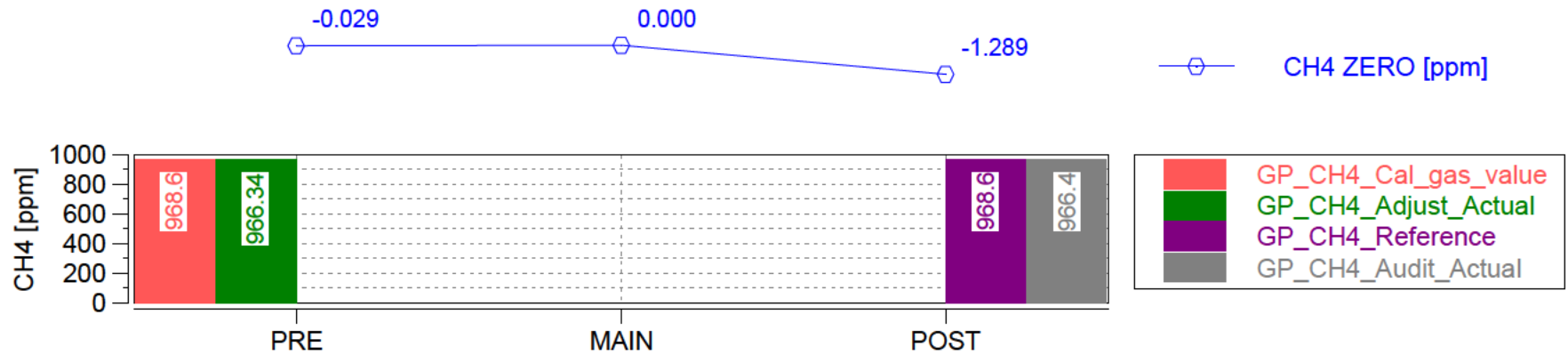
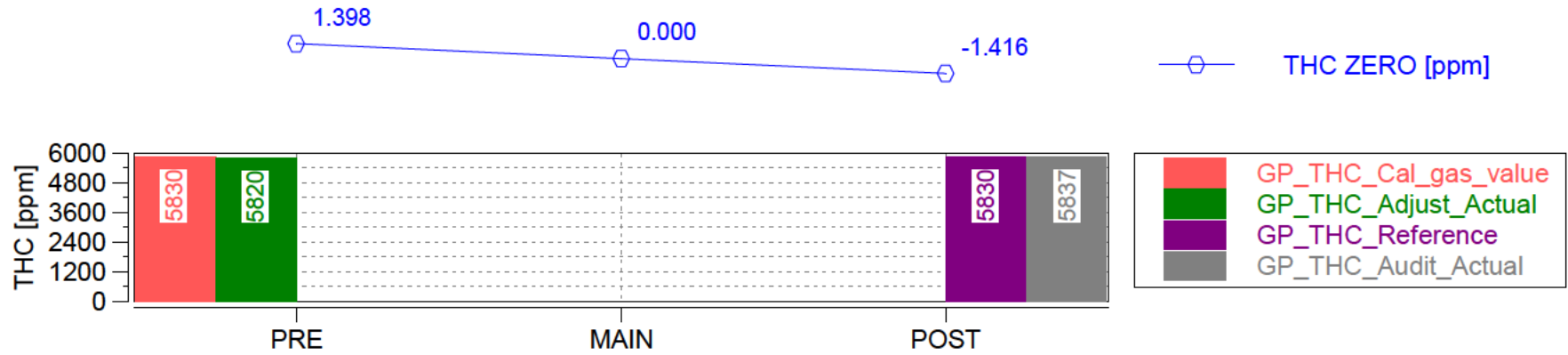
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



Concerto Version: 480 Build 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
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	10.81261	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	5.17168	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.24	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.20	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)	1.50	gall	tot THC DC	0.22035	g	BS PM	n/a	g/hphr
Trip Fuel Cons. Volume US (ac)	1.48	gall	tot NMHC DC	0.20383	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy (b)	n/a	mpg_US	tot CH4 DC	0.00488	g	DS CO2 DC	434.55031	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot CO DC	6.14042	g	DS CO DC	0.20913	g/mi
Trip Fuel Economy EU (ac)	19.59	mpg_US	tot CO2 DC	12758.90151	g	DS THC DC	0.00750	g/mi
Trip Fuel Economy US (ac)	19.80	mpg_US	tot NO DC (d)	0.29471	g	DS NMHC DC	0.00694	g/mi
Trip Av. Eng. Speed	1487.70	rpm	tot NO2 DC	0.07884	g	DS CH4 DC	0.00017	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.37355	g	DS NO DC (d)	0.01004	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00269	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.01272	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 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	85.89	deg_F	PM correction type	1.00000	alpha(HC)	DS PN DC	n/a	#/mi
Trip Av. Humidity	39.73	%	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	31.10659	mi/hr	FS NMHC DC	n/a	g/kg
			Trip Velocity Zero	10.82990	%	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

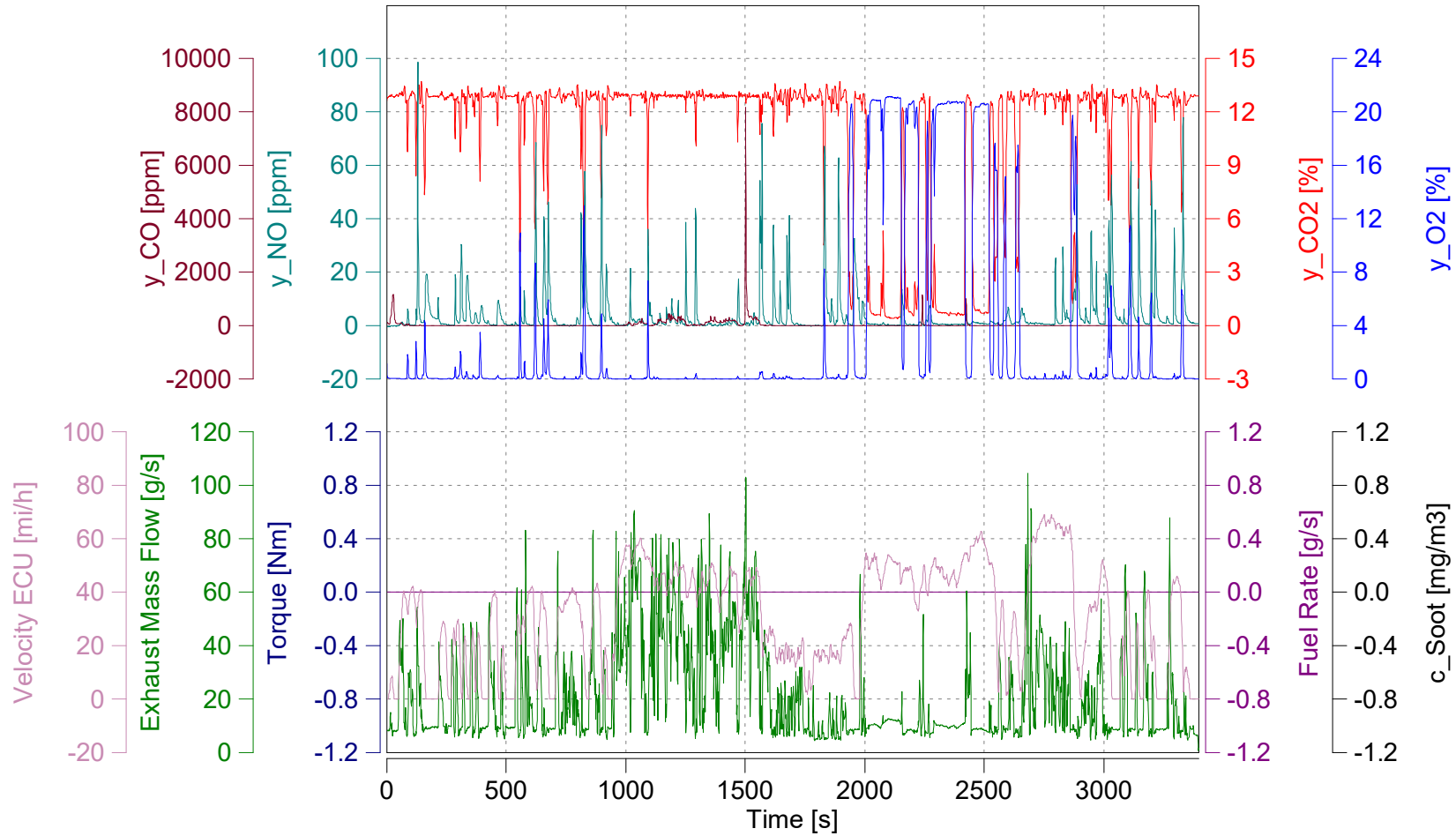
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Vehicle: Atlas / 3.6L

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

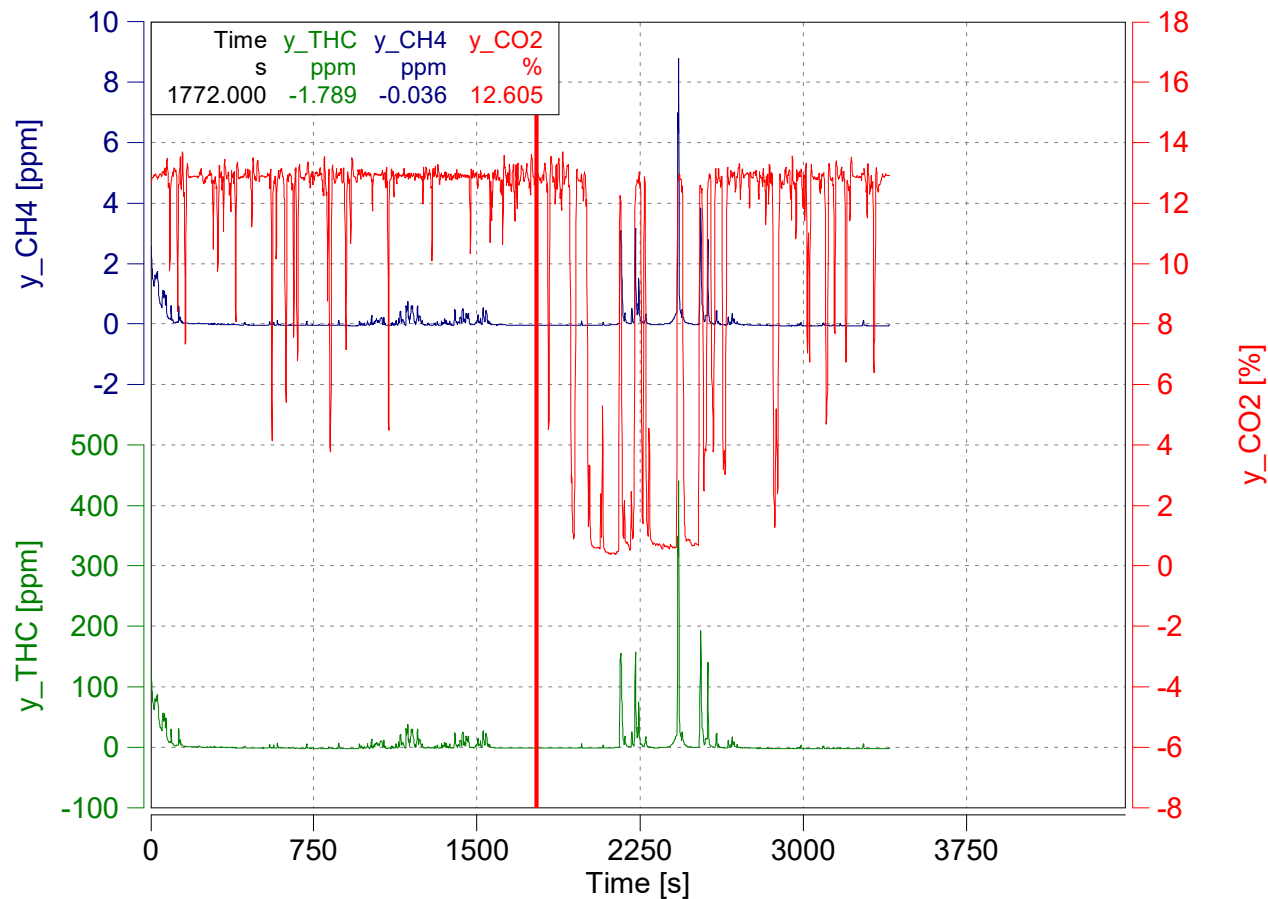
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Vehicle: Atlas / 3.6L

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

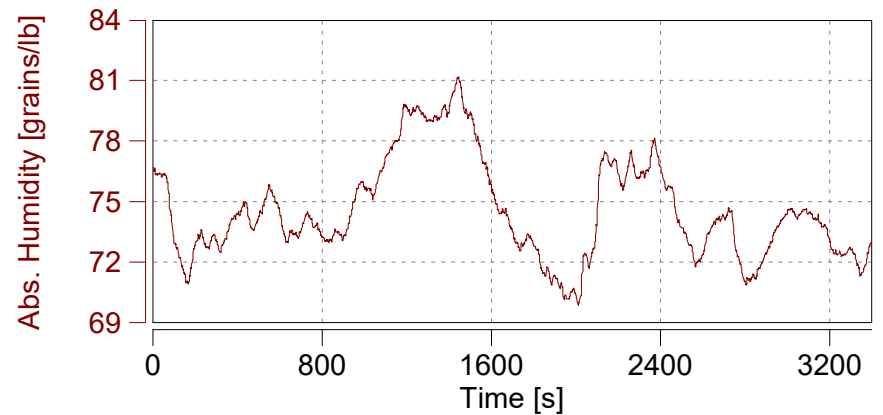
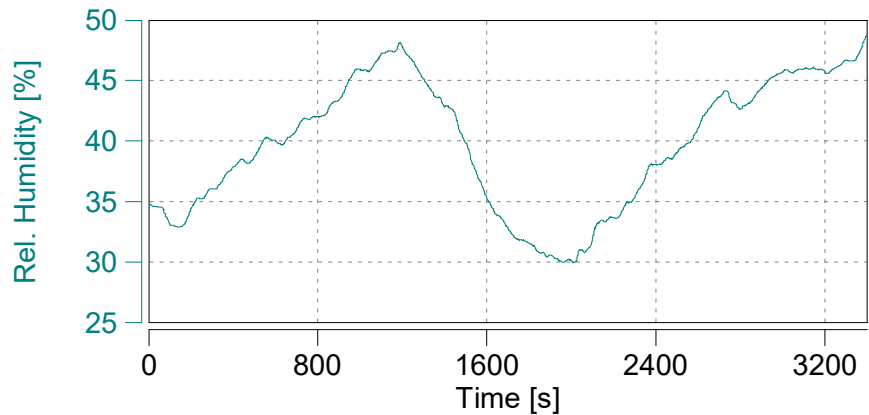
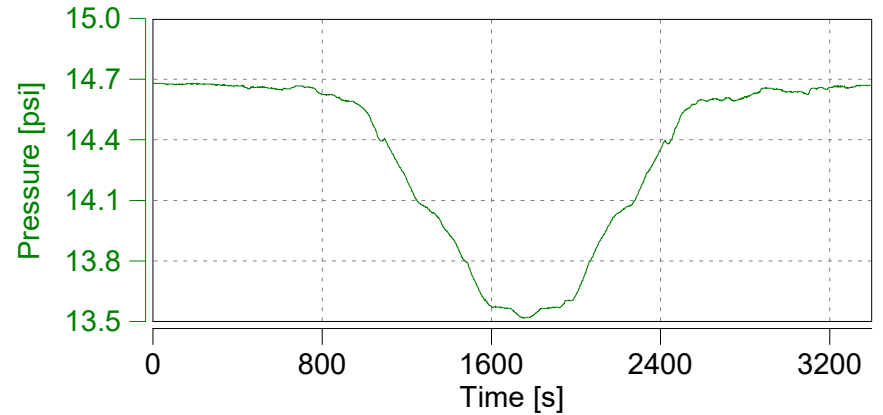
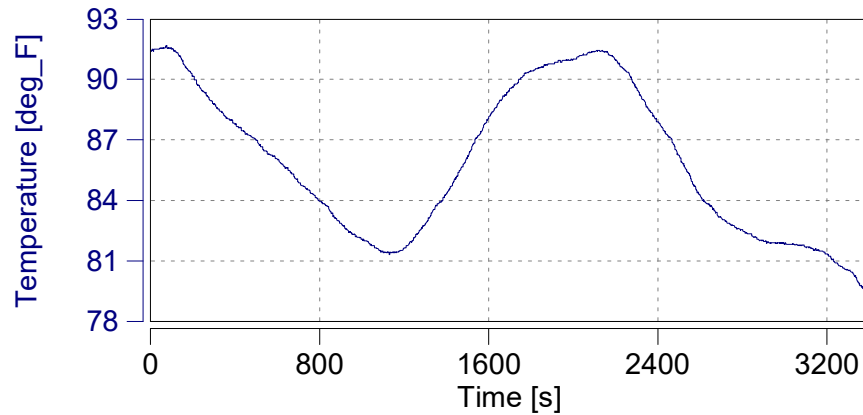
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Vehicle: Atlas / 3.6L

Engine: /

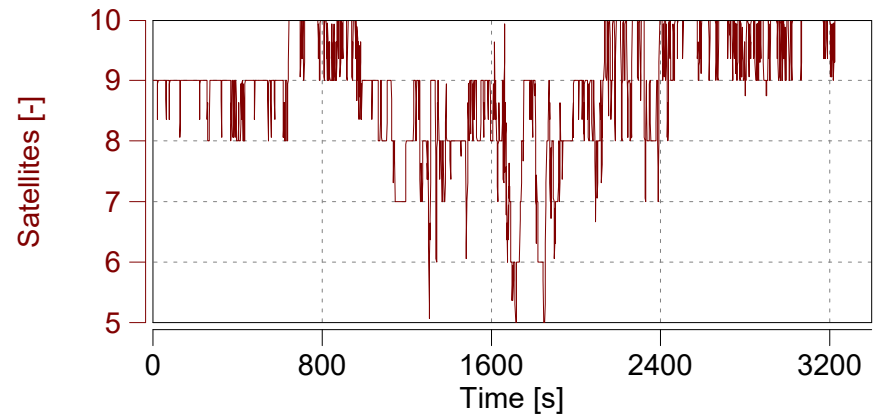
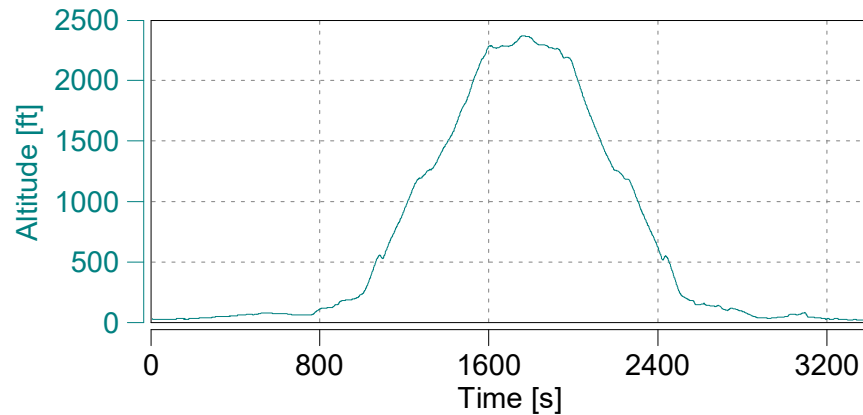
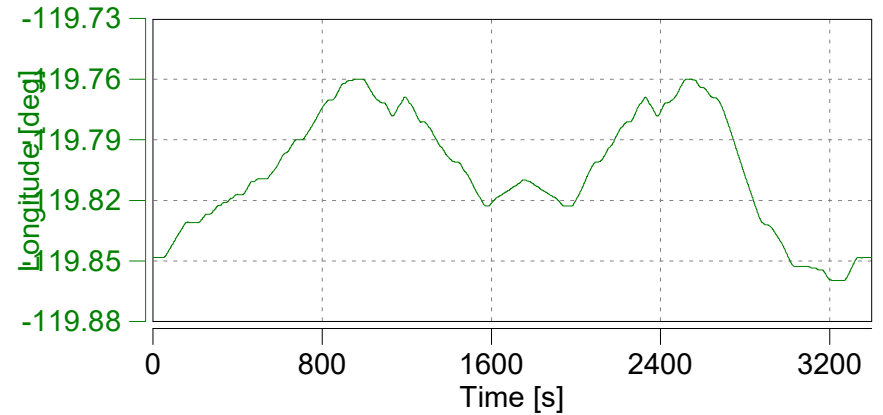
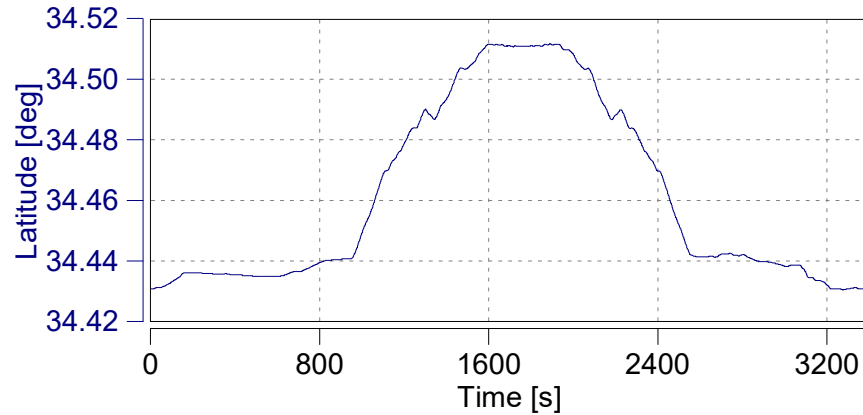
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



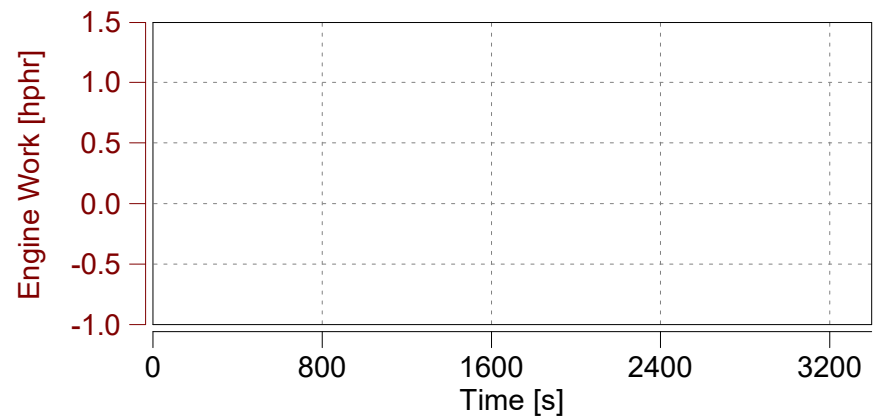
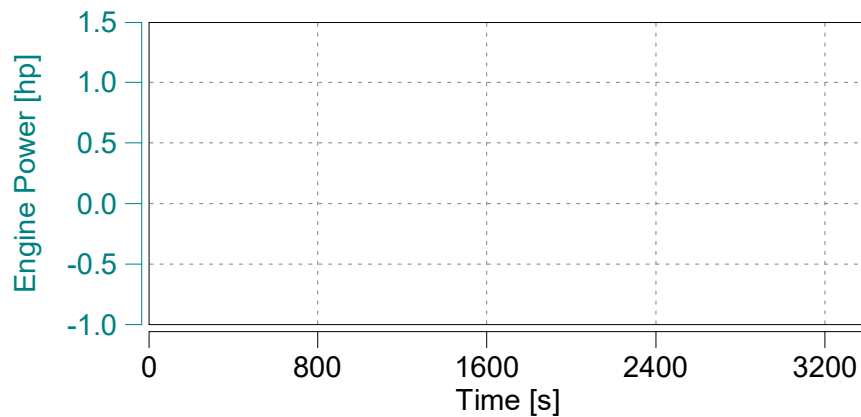
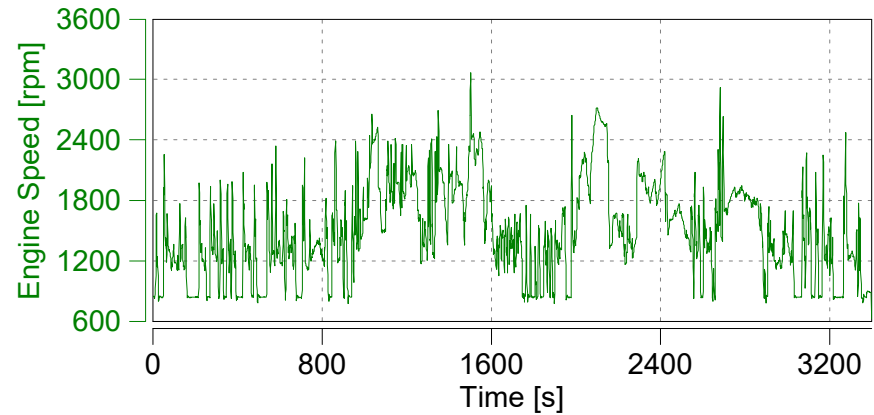
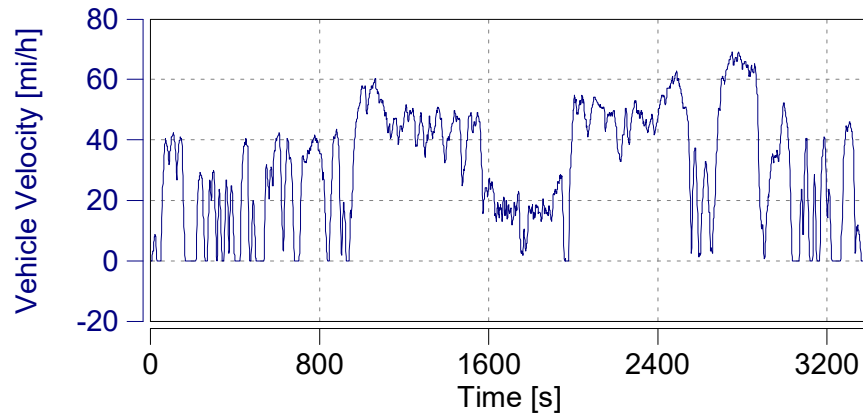
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



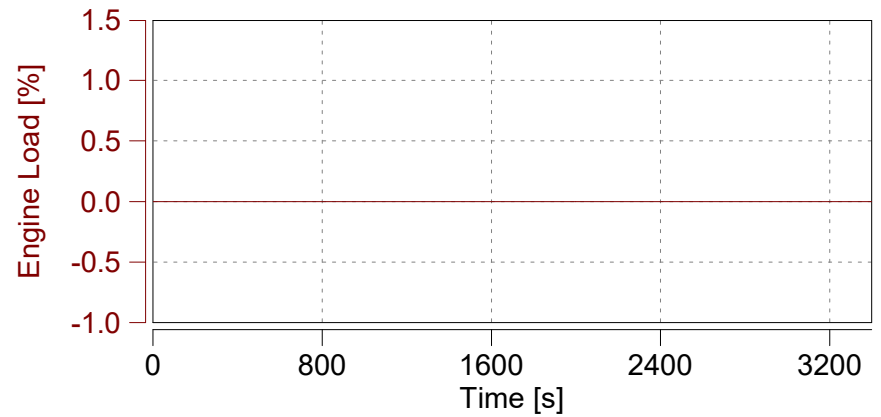
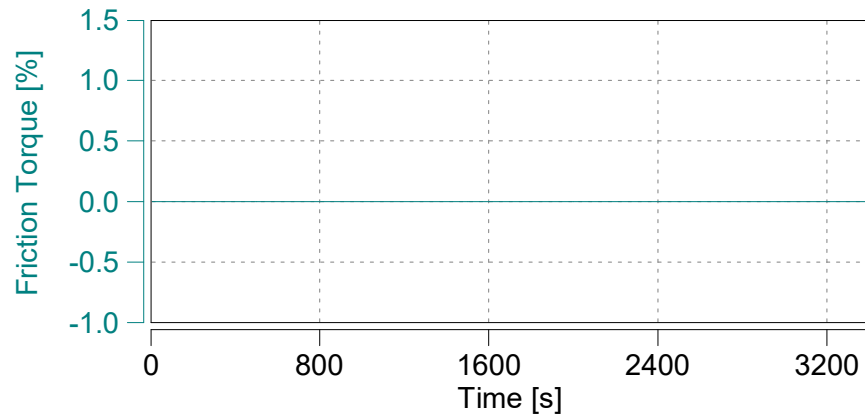
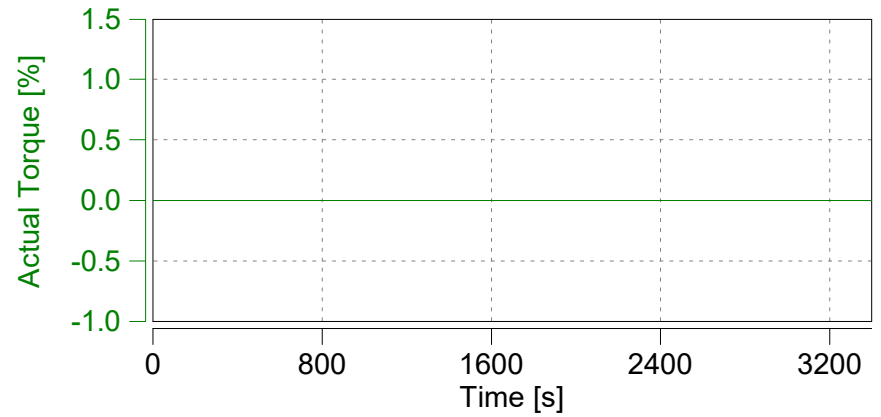
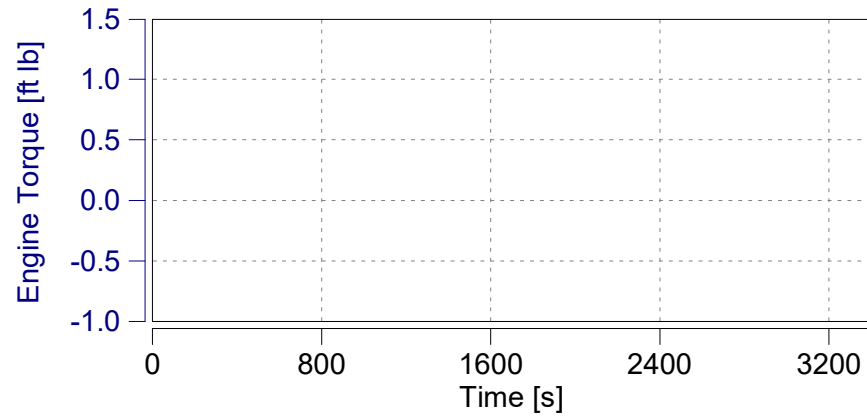
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



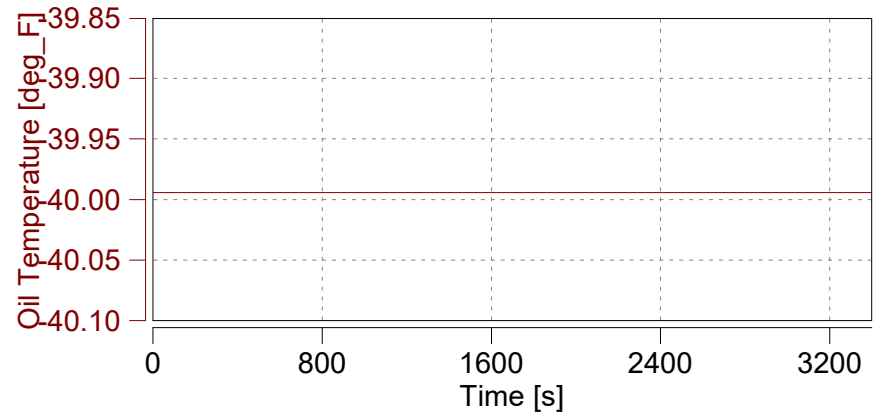
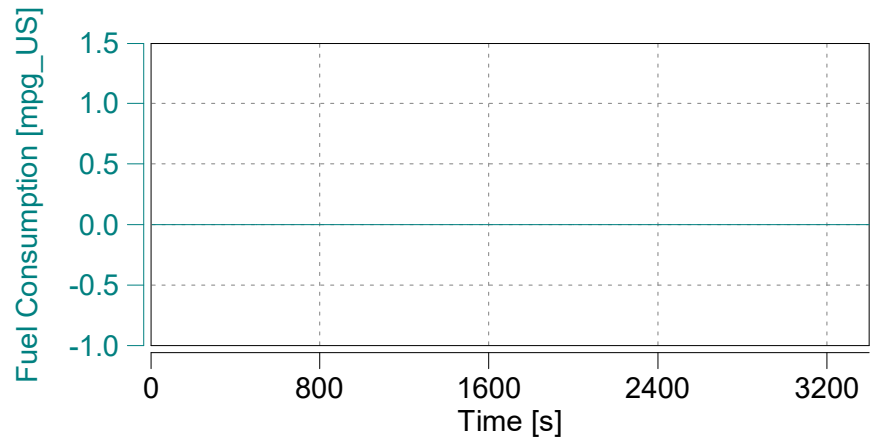
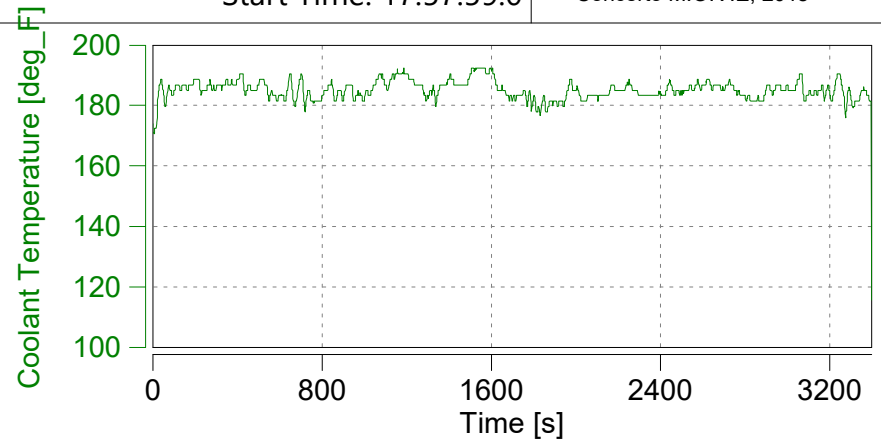
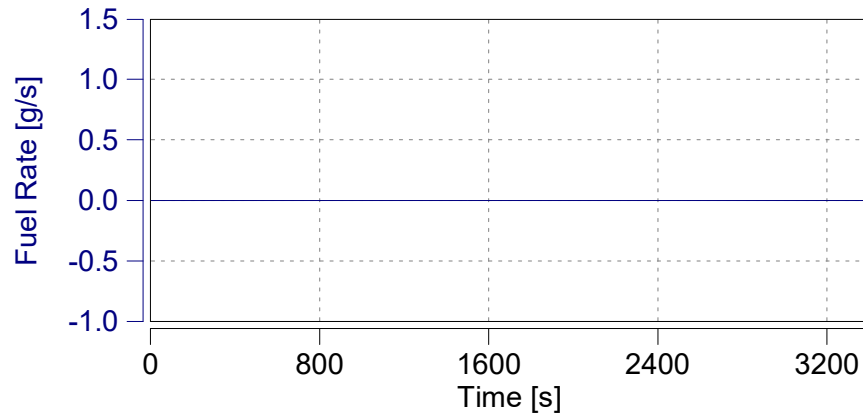
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



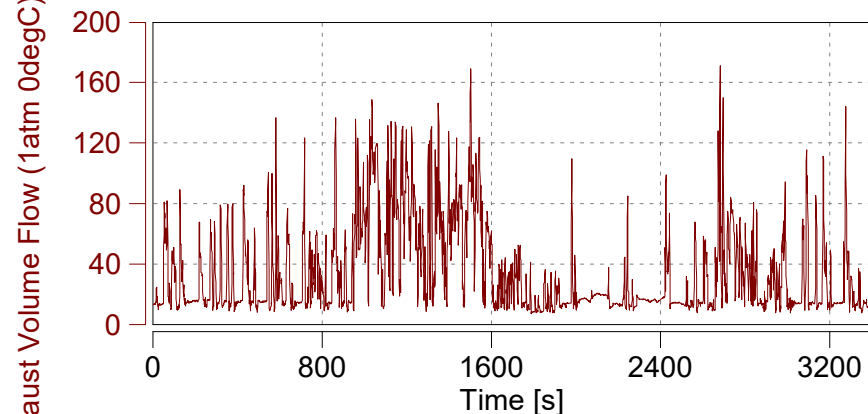
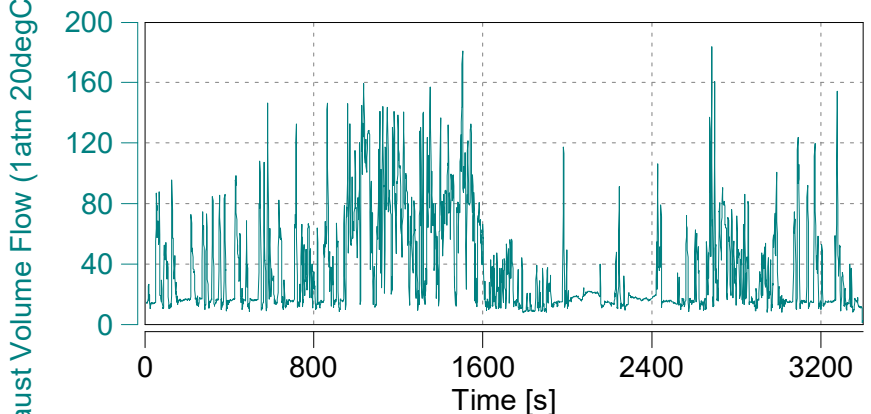
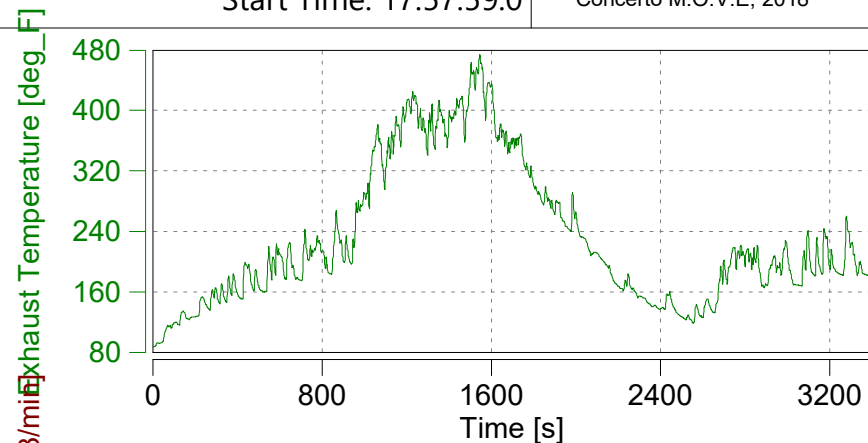
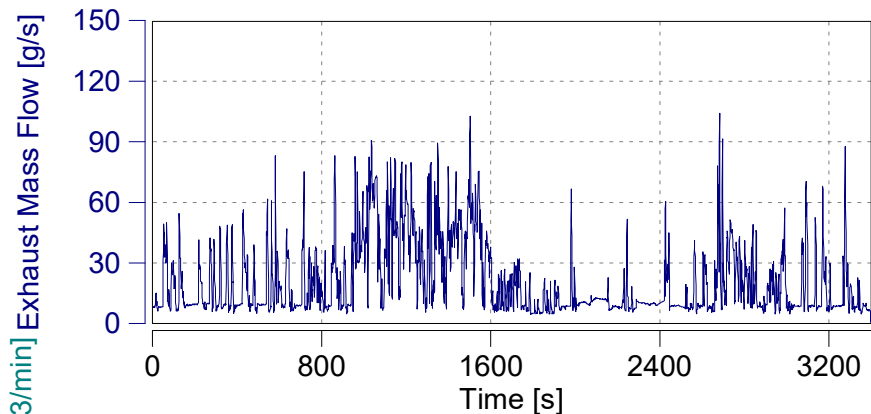
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



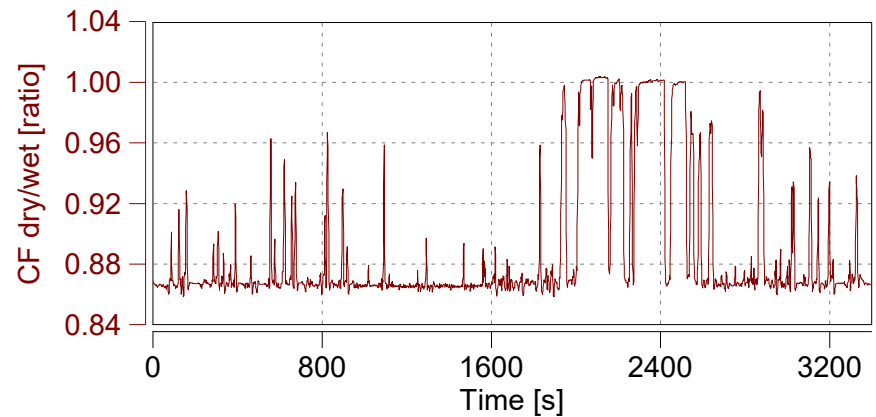
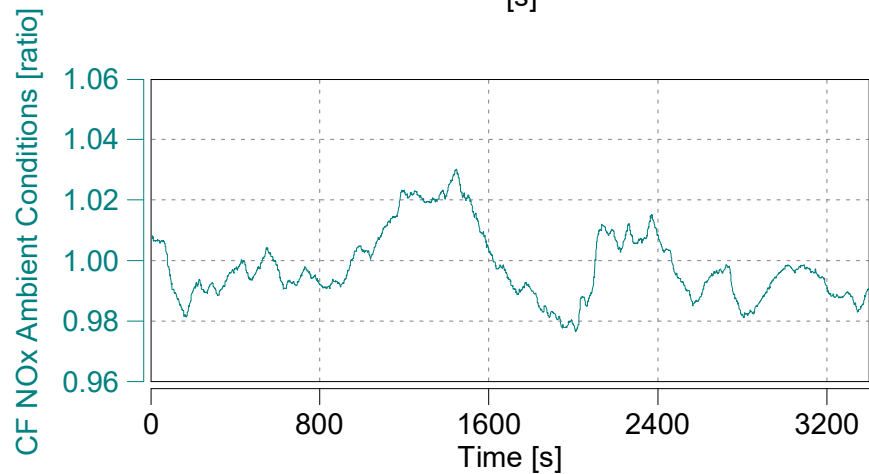
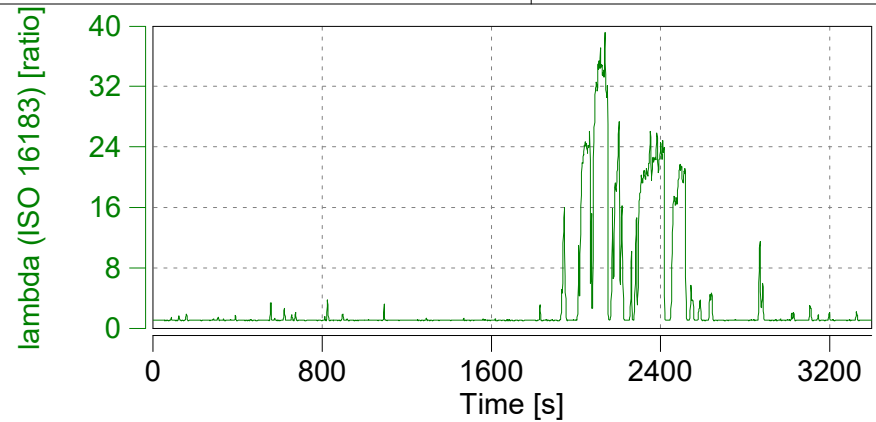
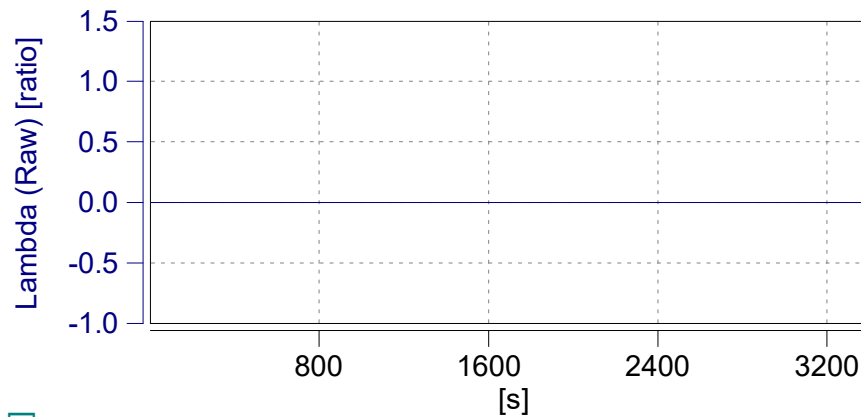
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



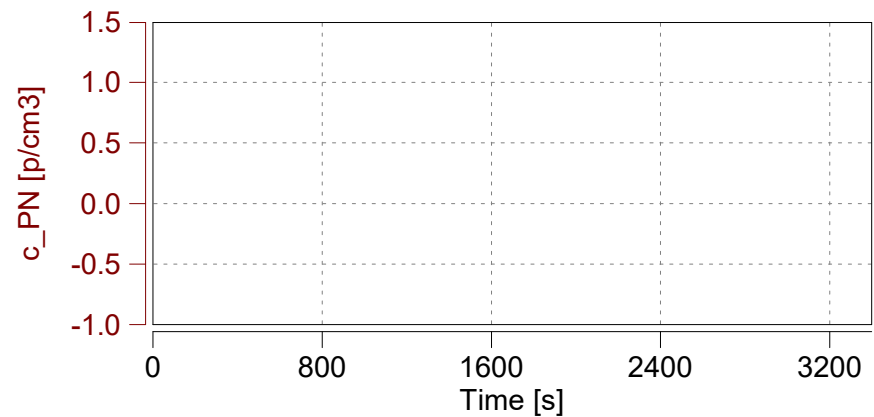
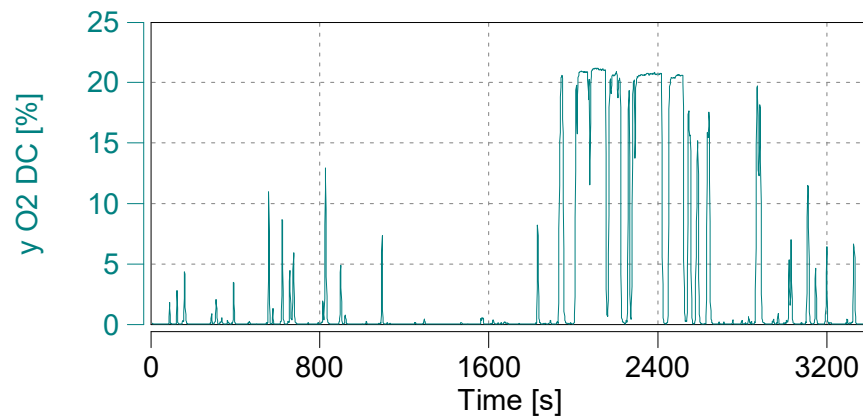
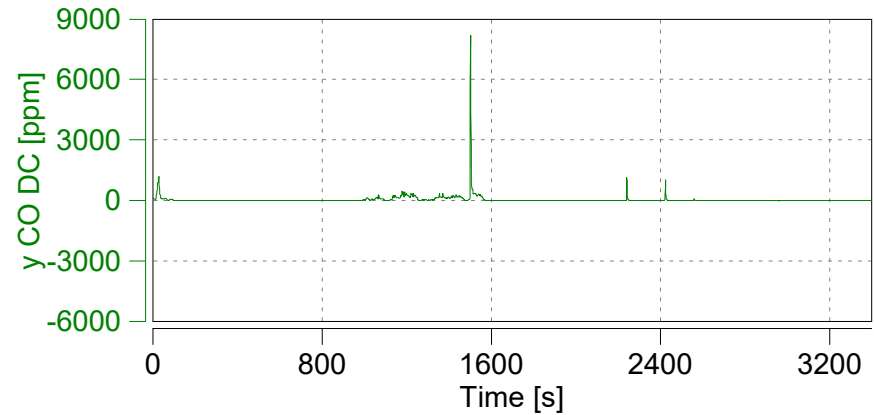
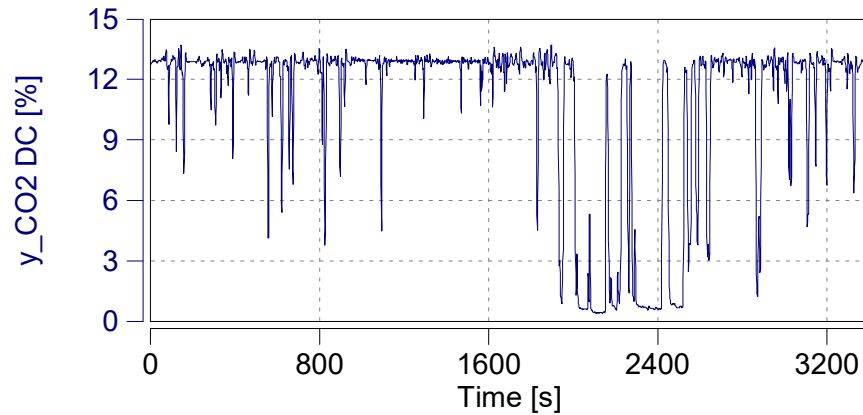
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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

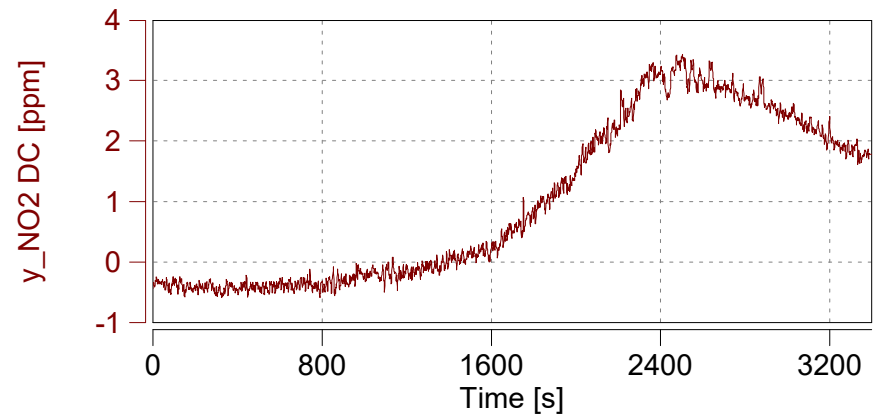
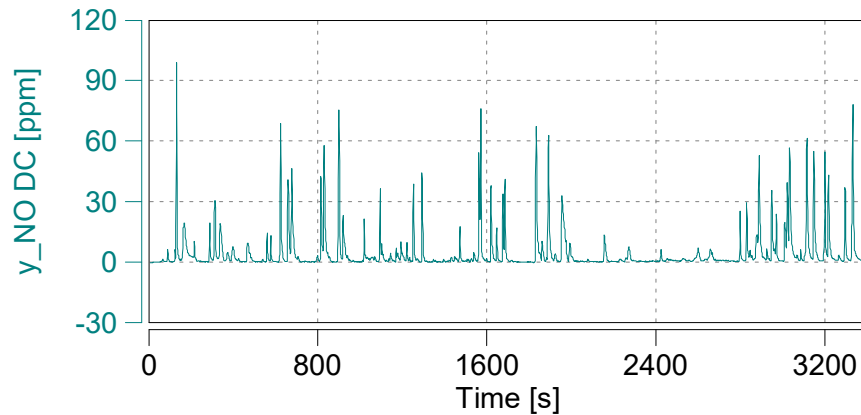
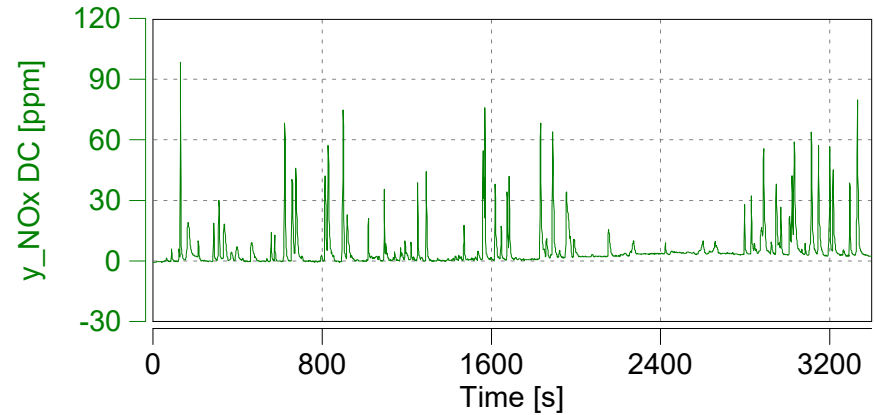
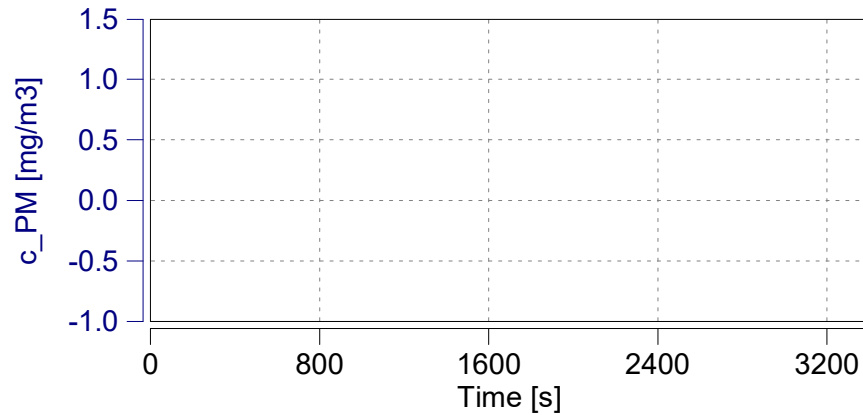
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Vehicle: Atlas / 3.6L

Engine: /

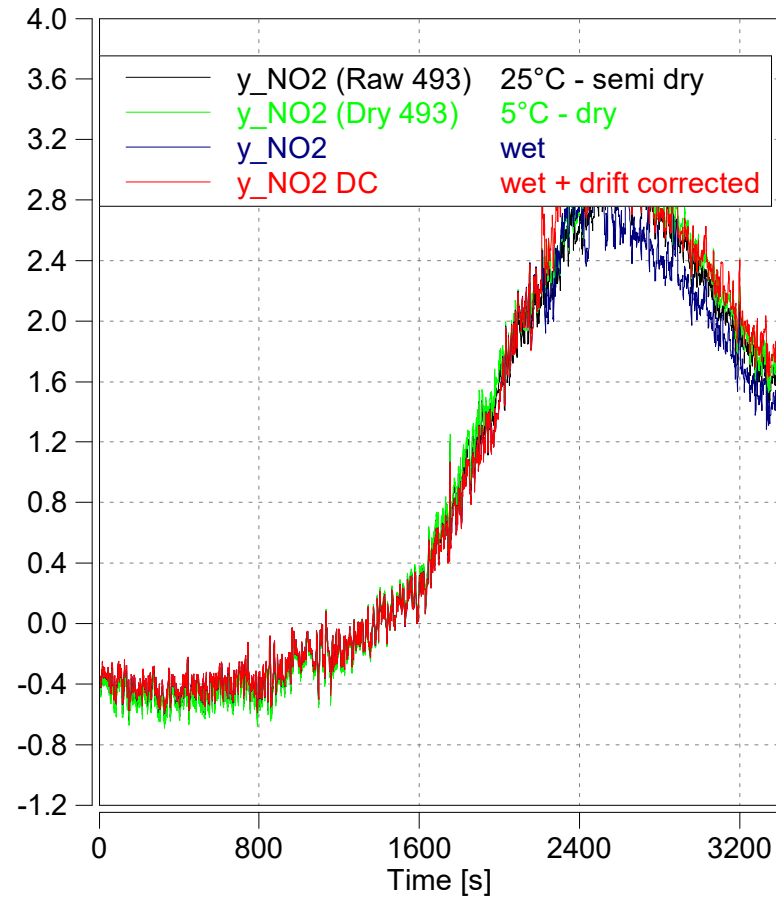
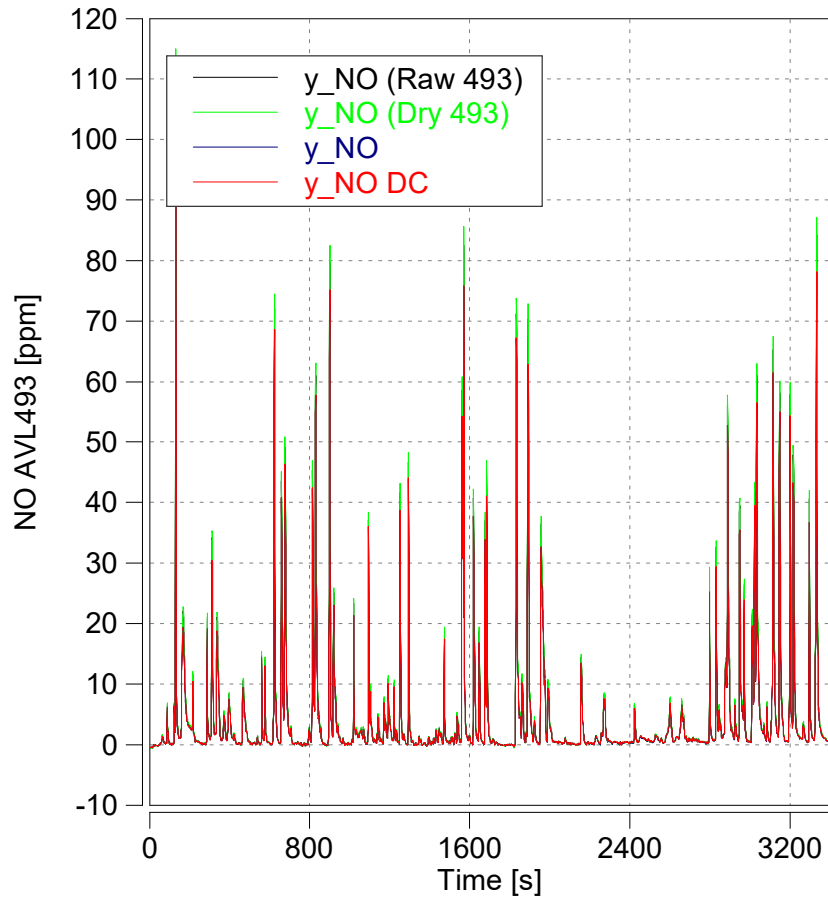
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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

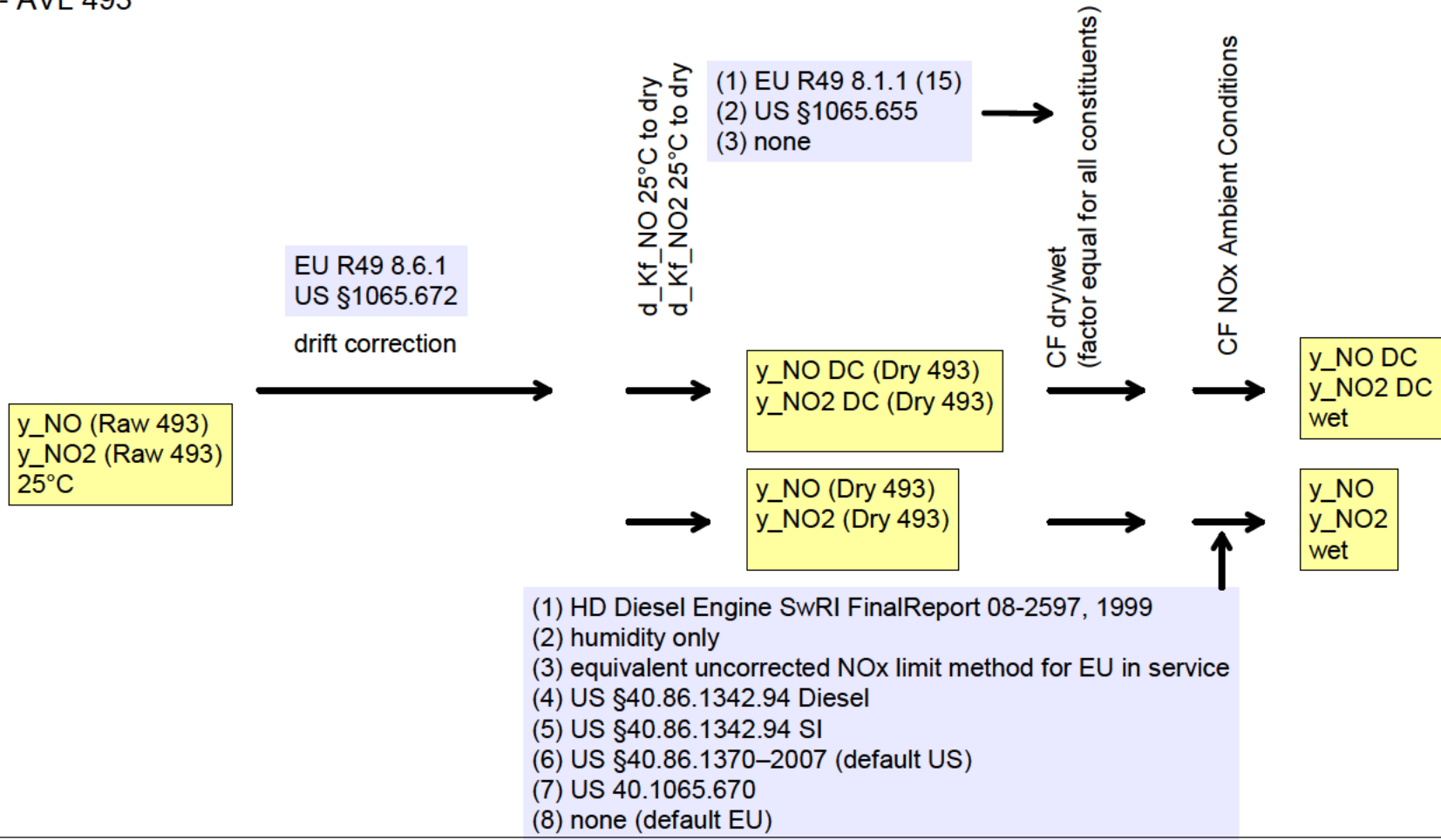


Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: Atlas / 3.6L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Mountain

Page: Corrected Emissions (5)

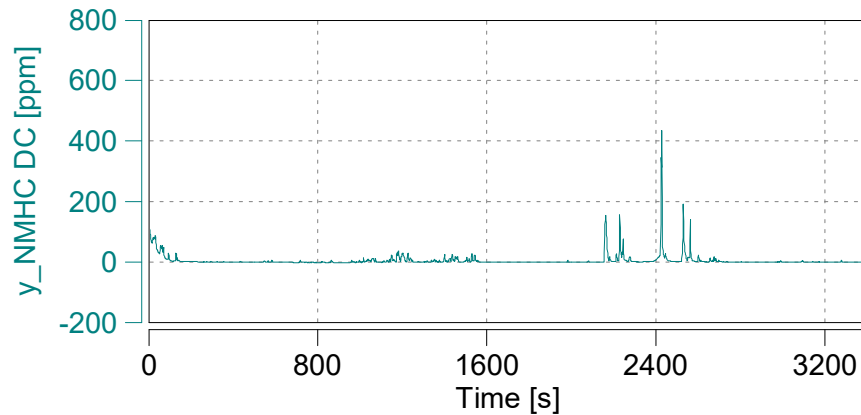
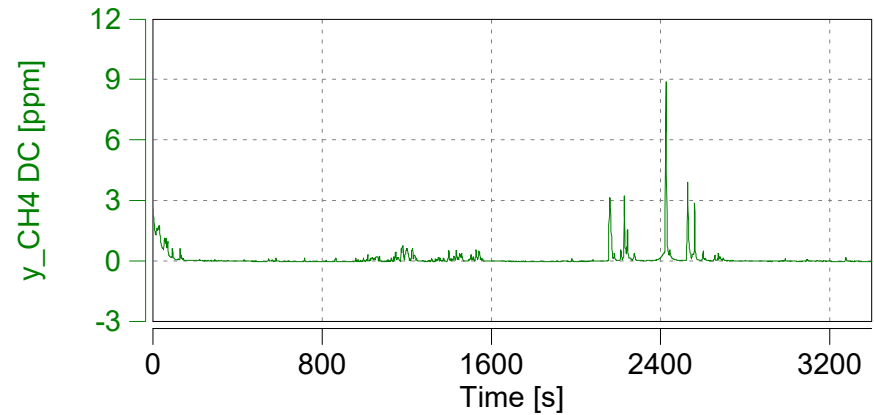
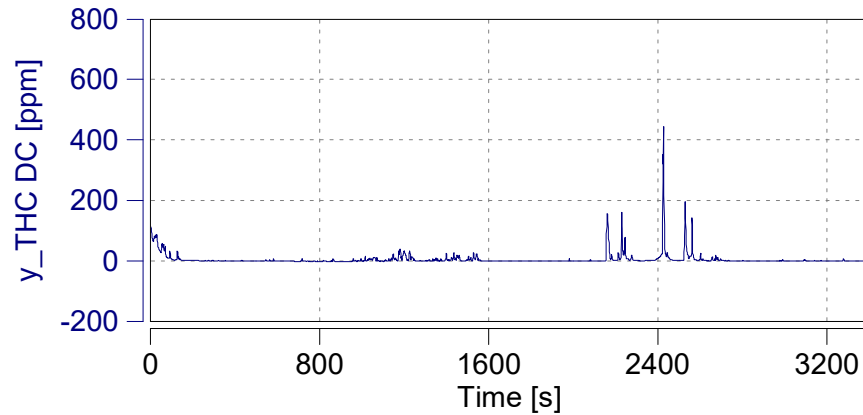
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Start Date: 07/24/2019

Start Time: 17:57:59.0



Concerto M.O.V.E., 2018



Concerto Version: 480 Build 316, Serial Number: 1120

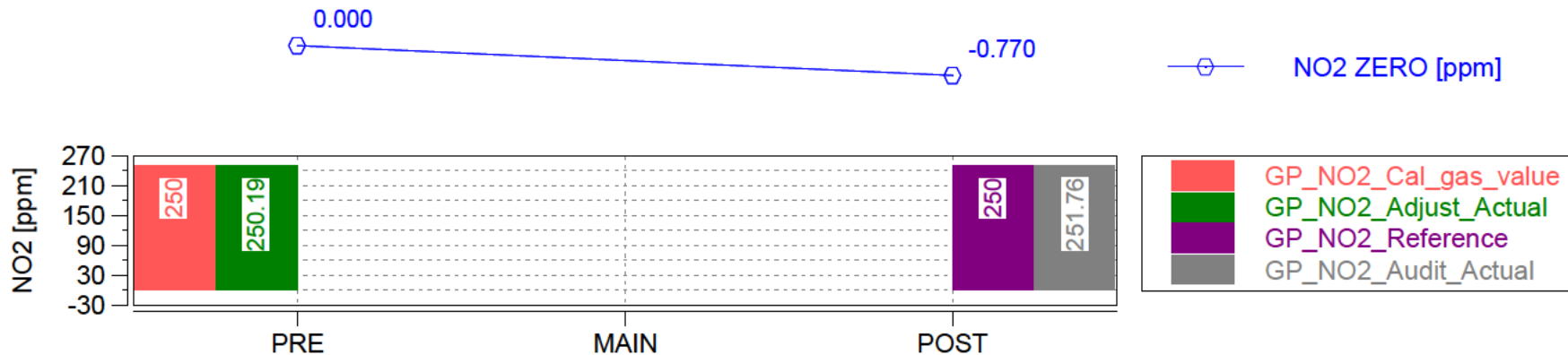
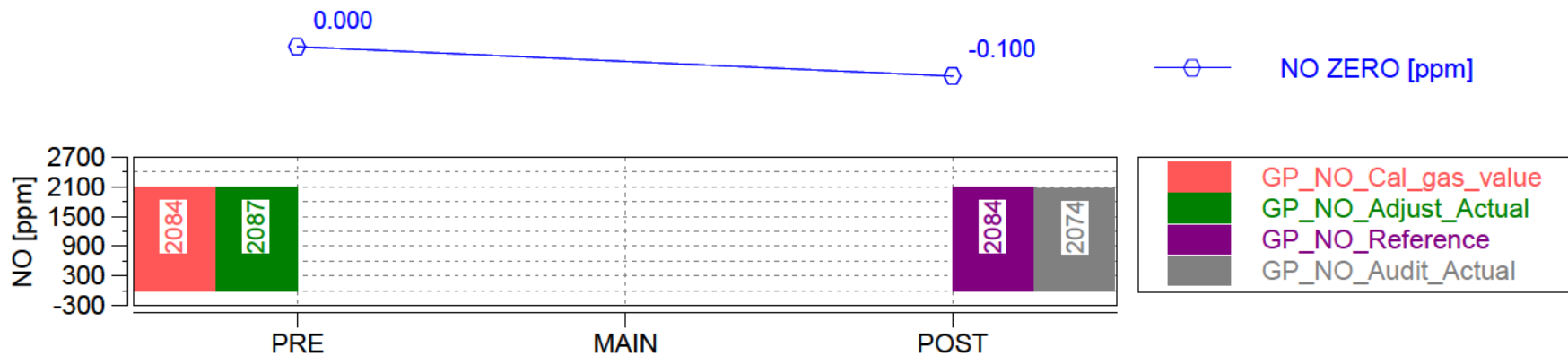
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Vehicle: Atlas / 3.6L

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

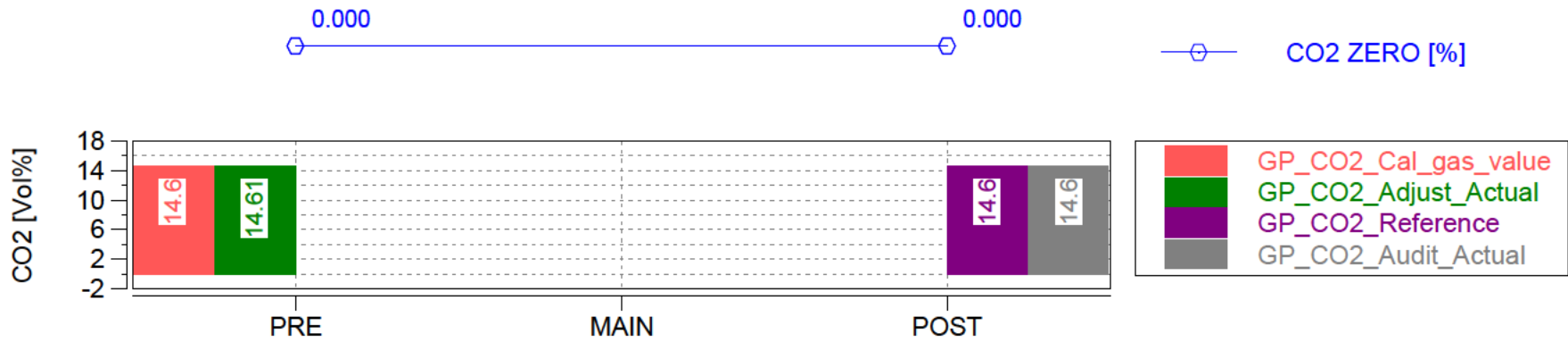
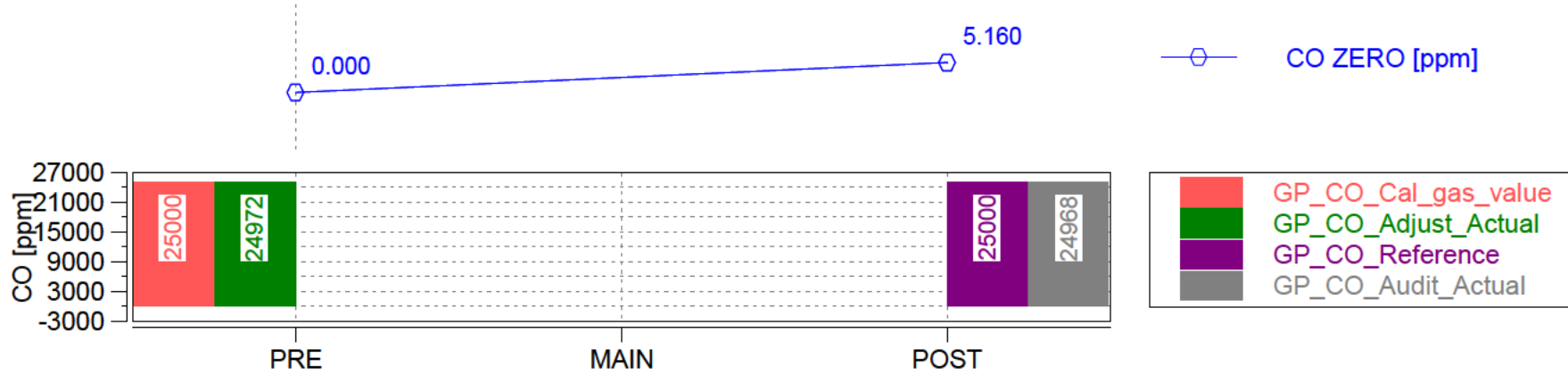
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Vehicle: Atlas / 3.6L

Engine: /

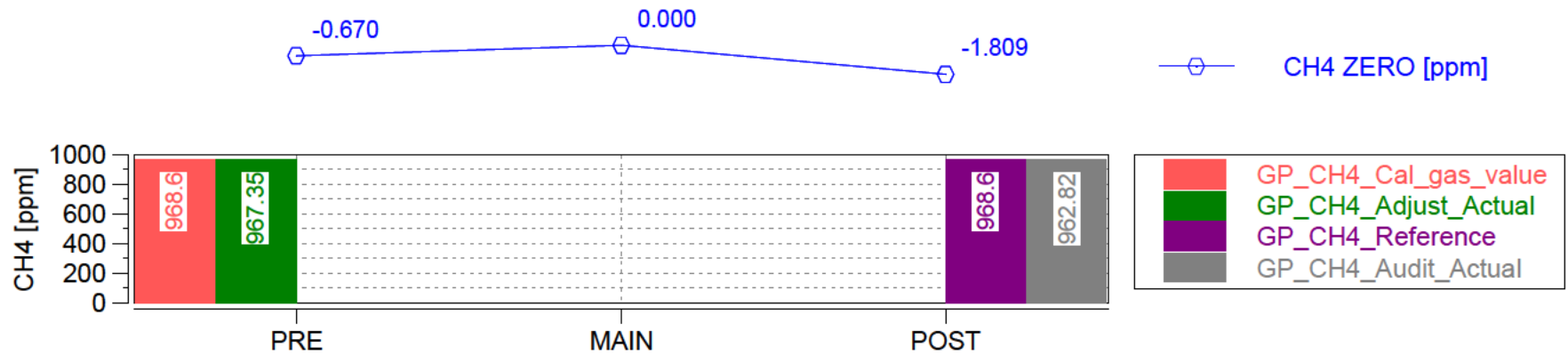
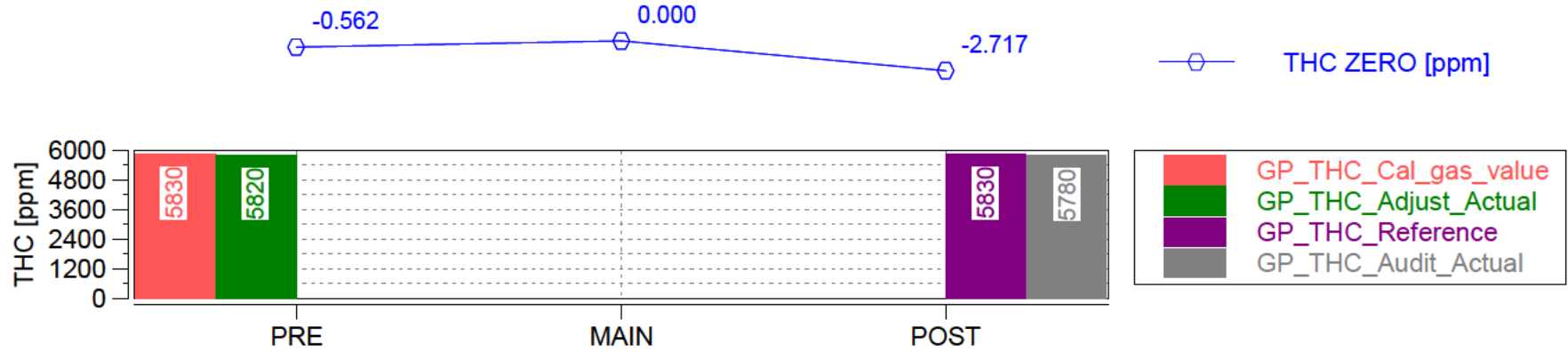
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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

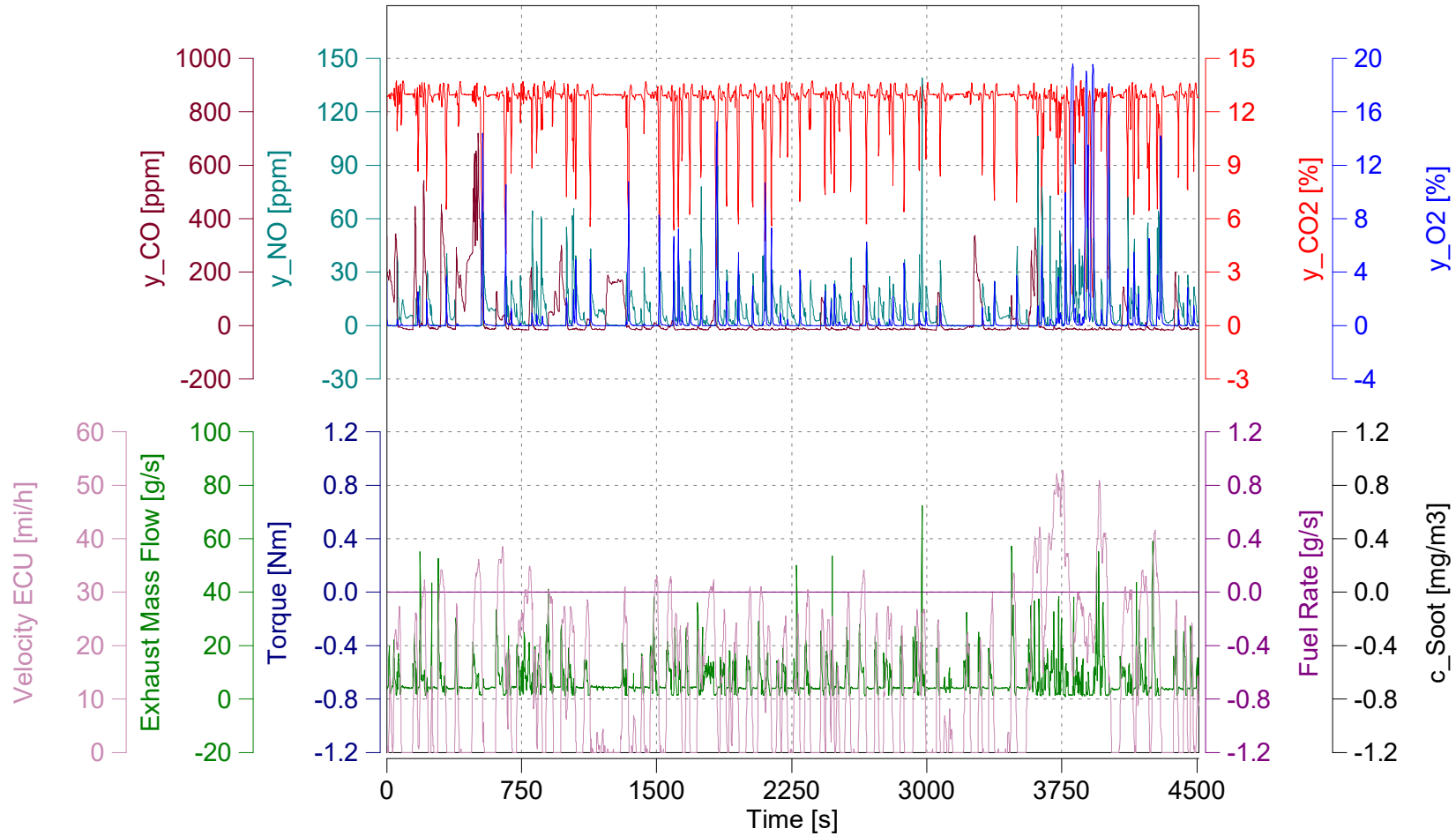
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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

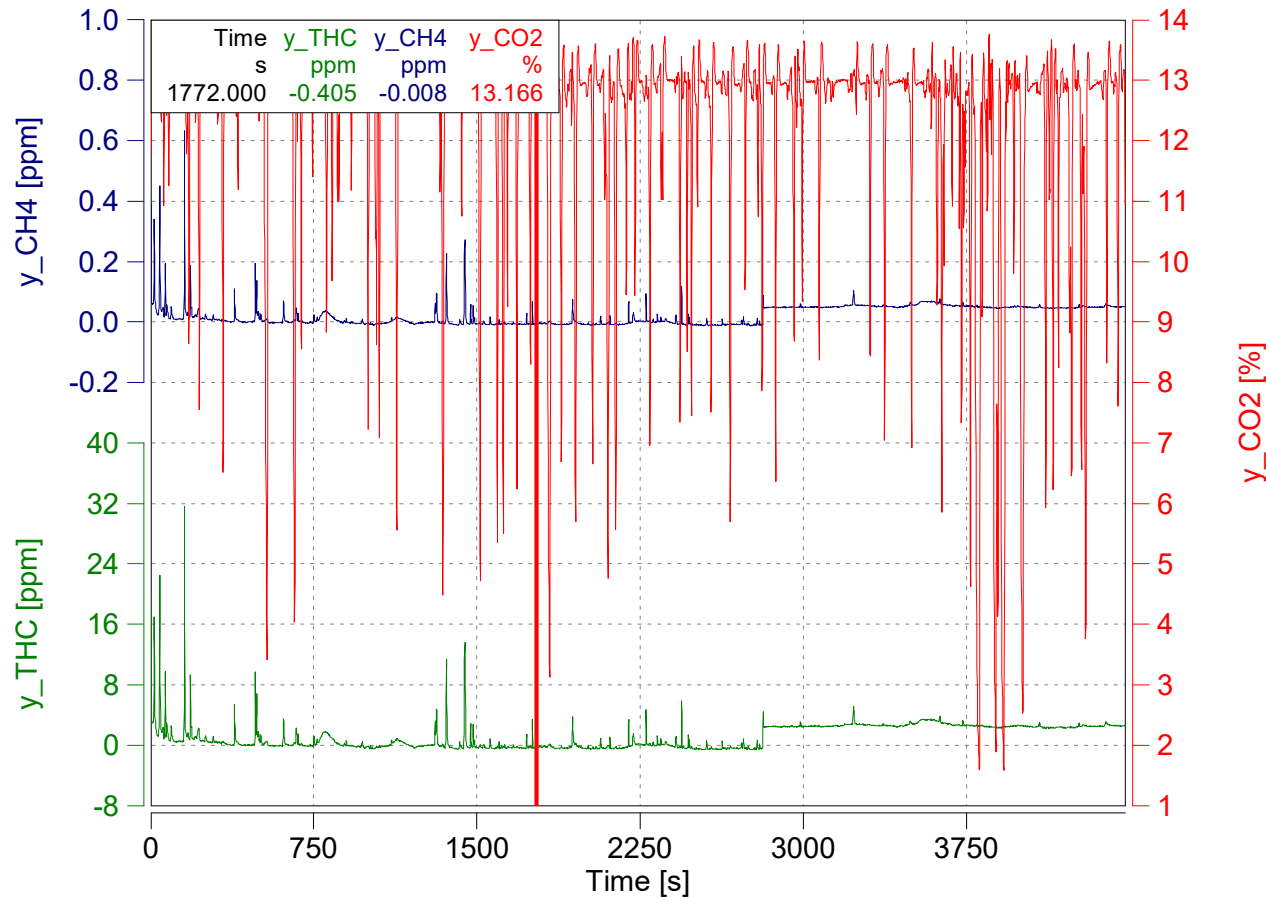
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

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

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



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

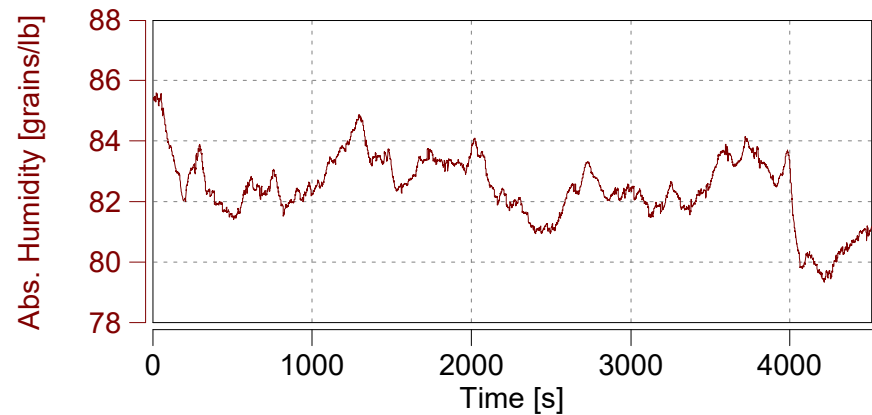
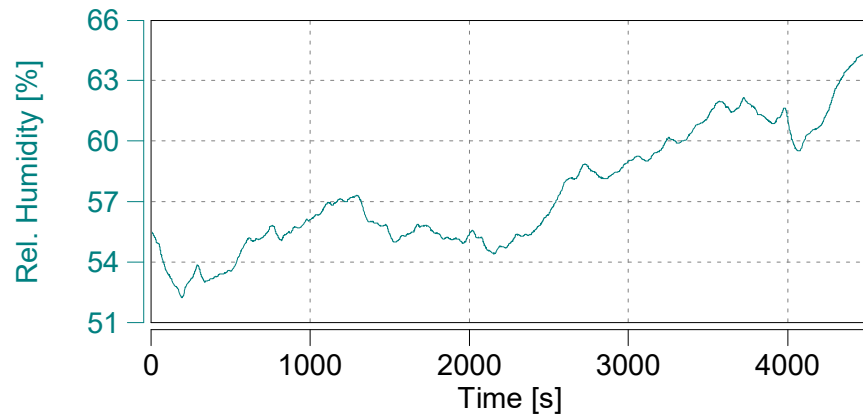
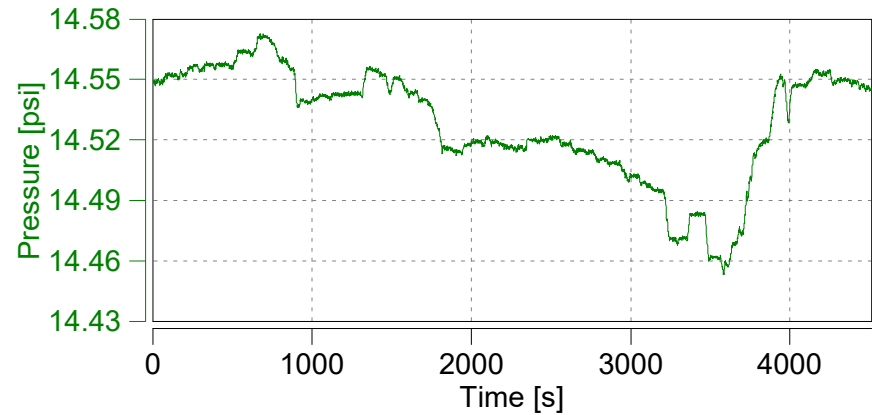
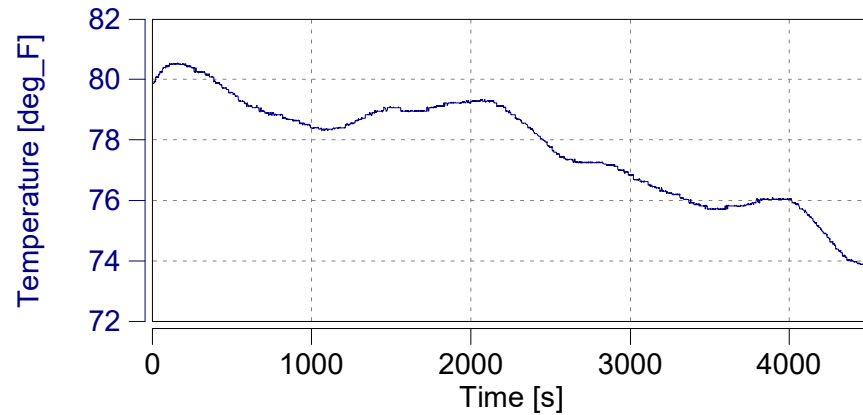
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0

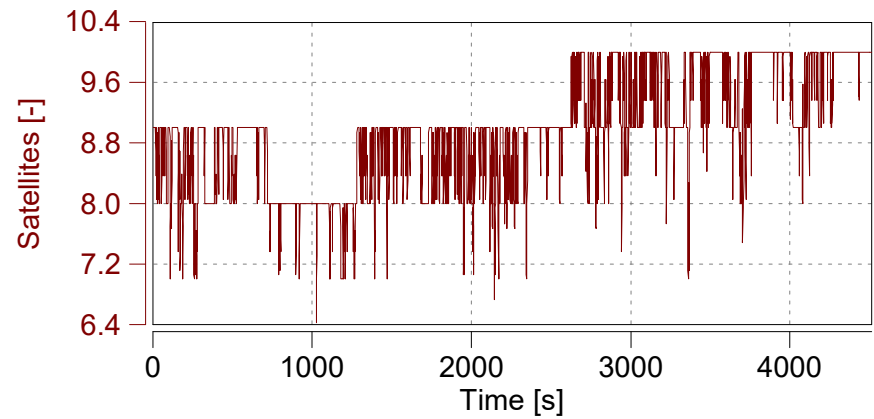
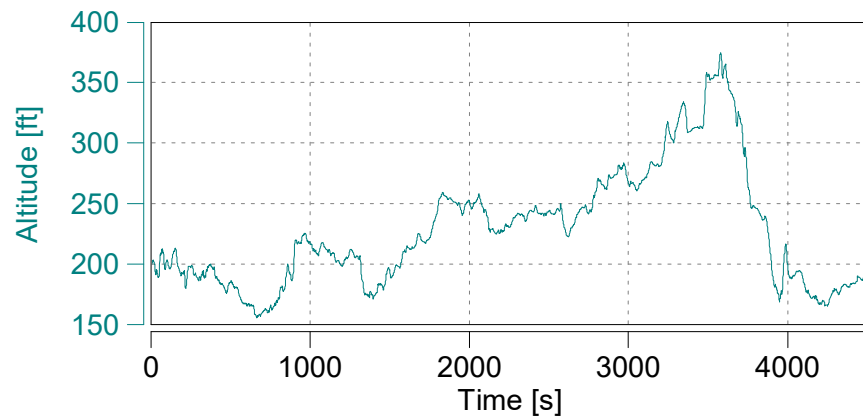
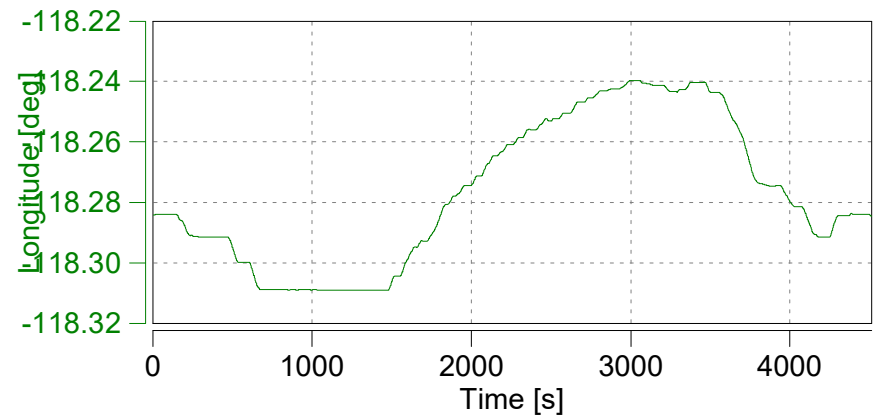
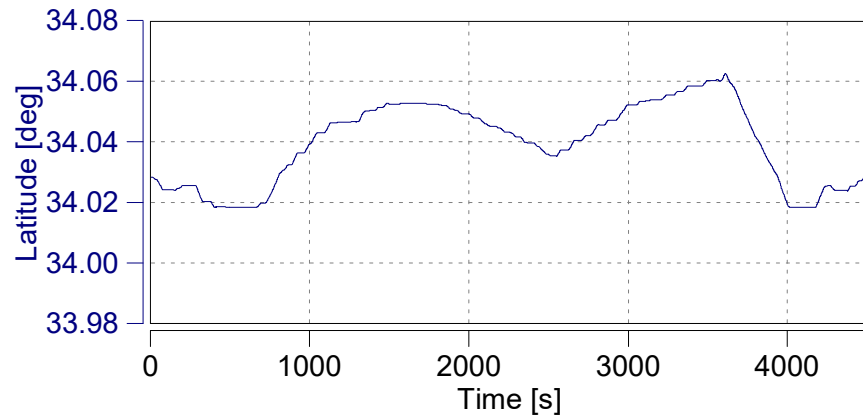


Concerto M.O.V.E., 2018



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\WorkEnvironnents\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: Engine (1)

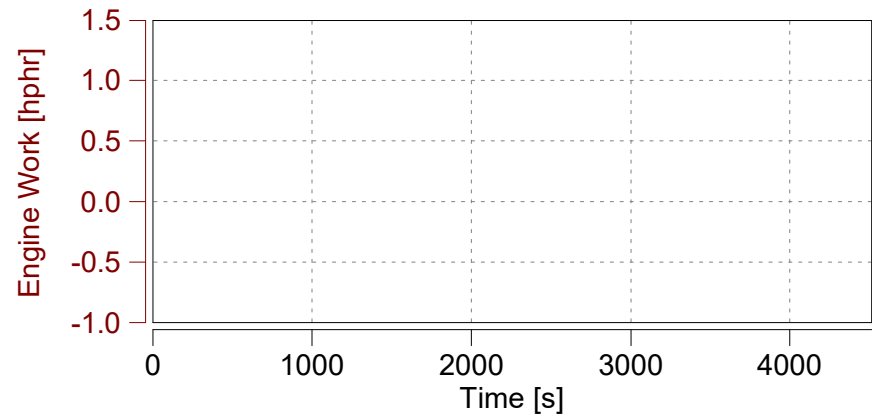
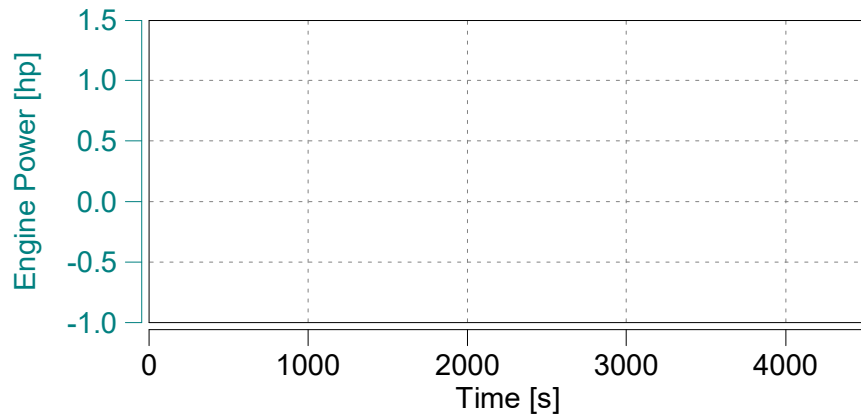
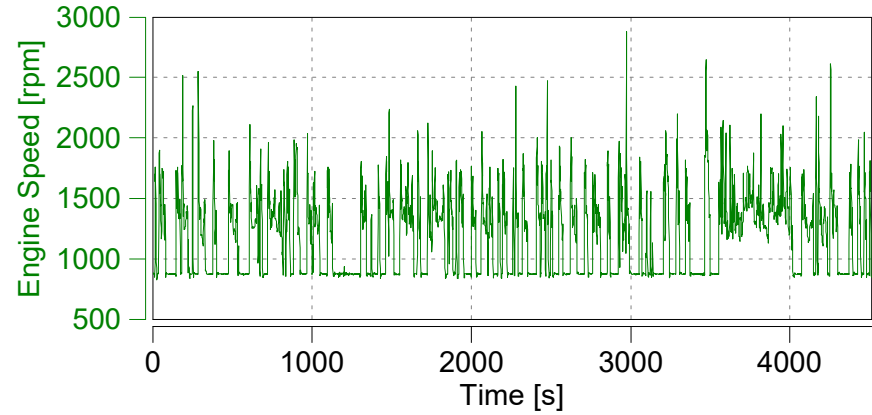
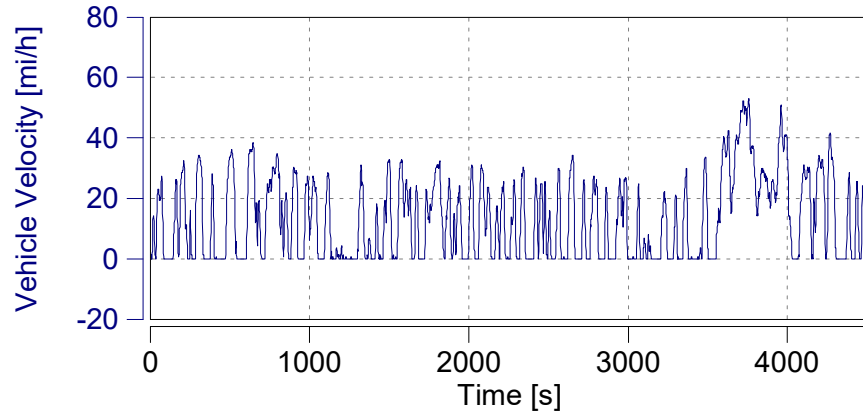
'City'

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

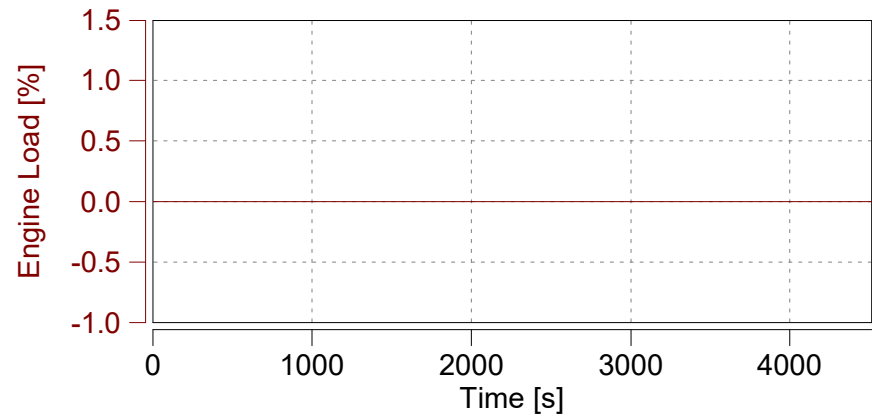
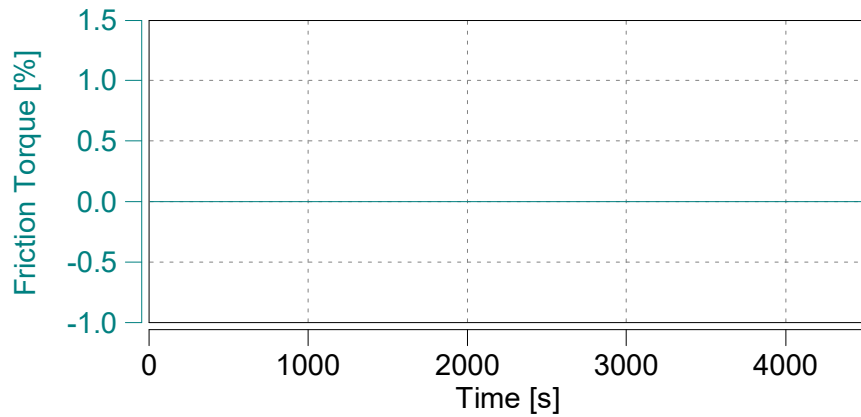
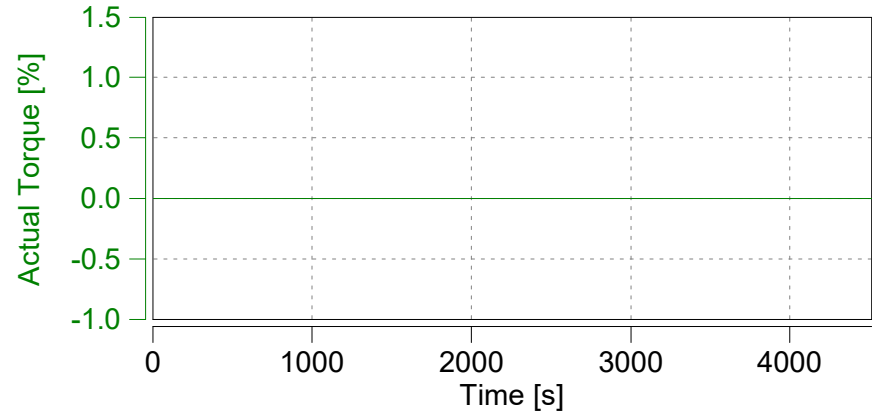
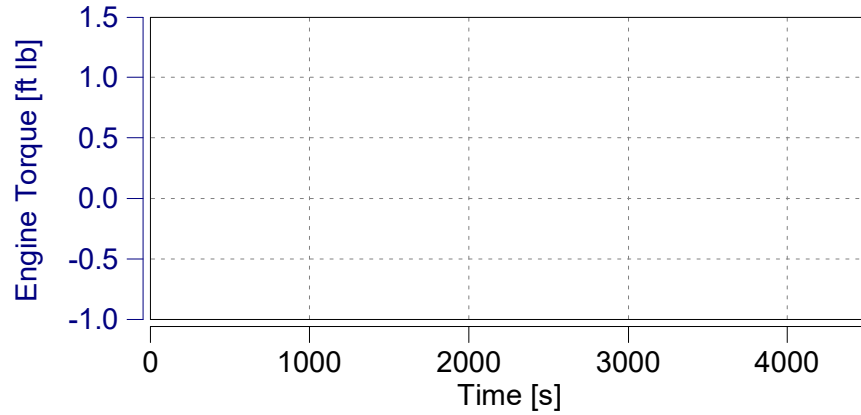
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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 (3)

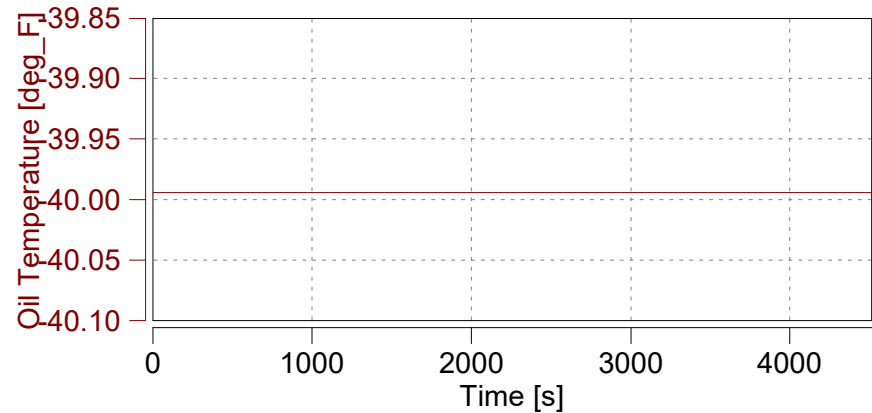
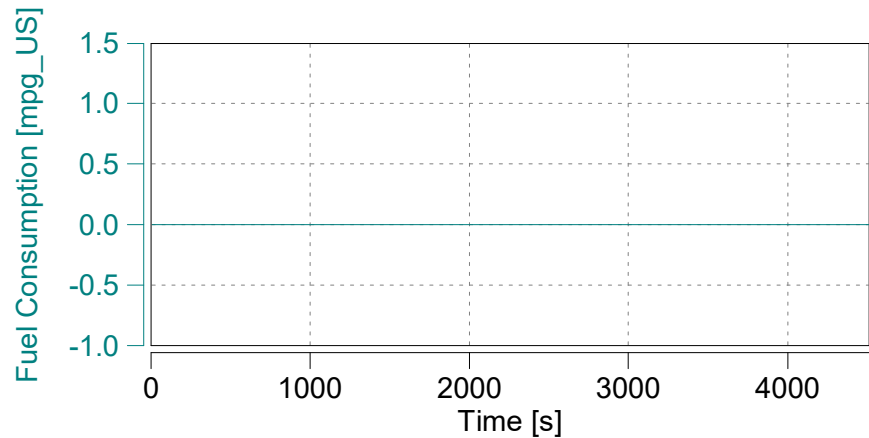
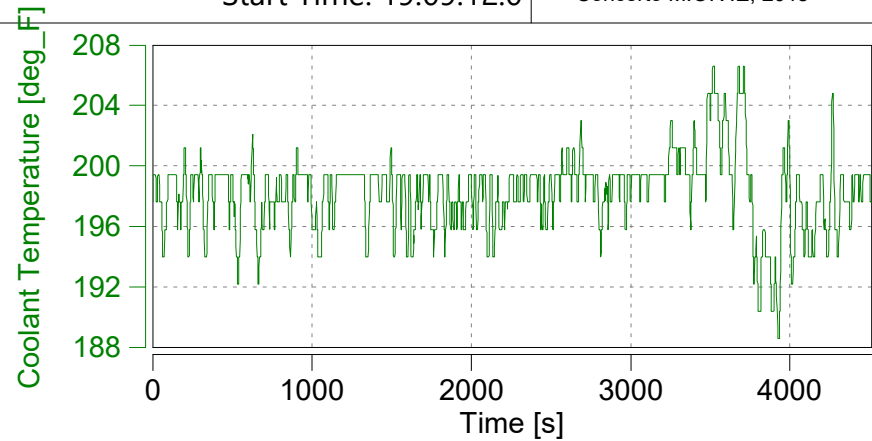
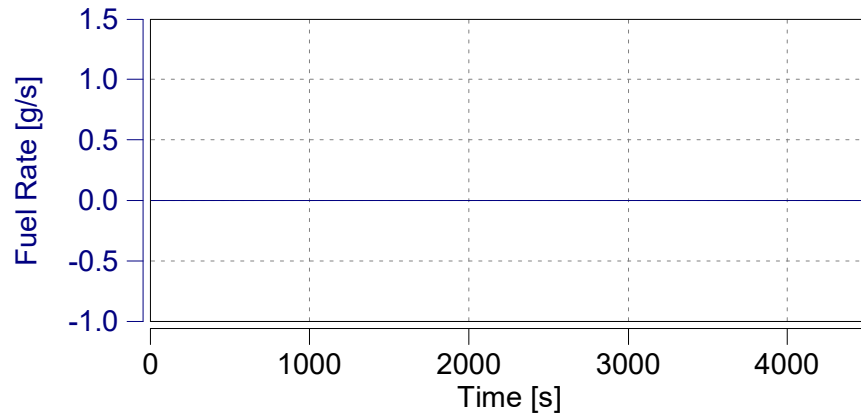
'City'

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)

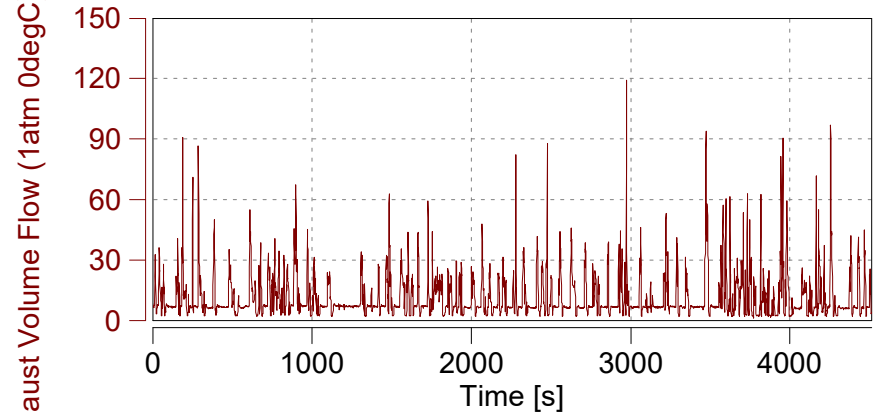
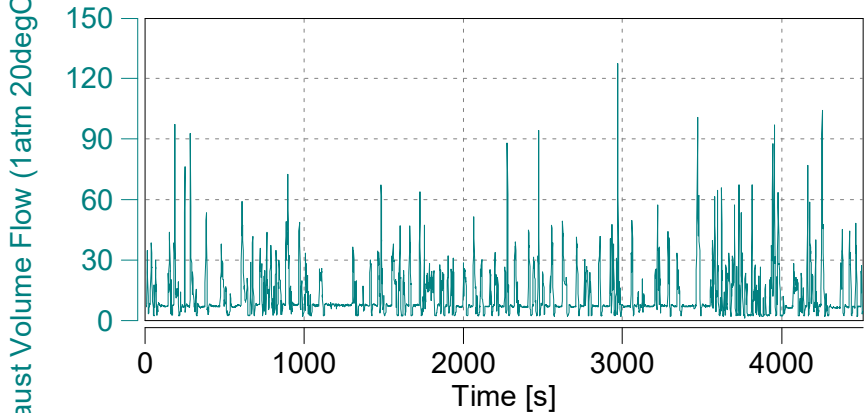
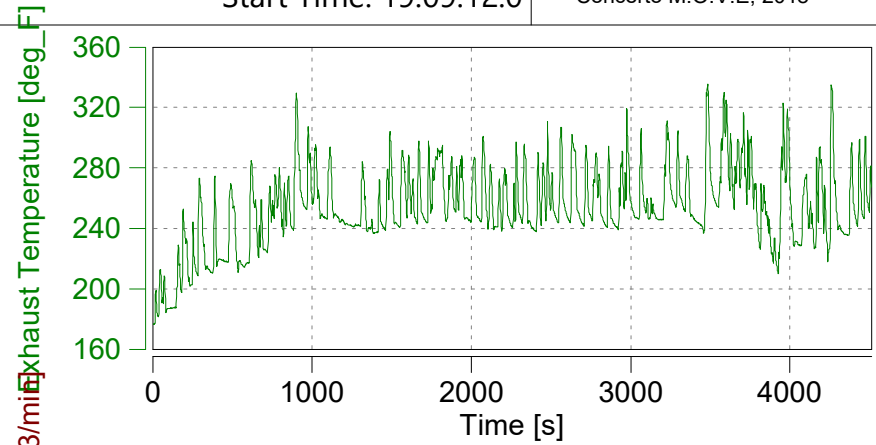
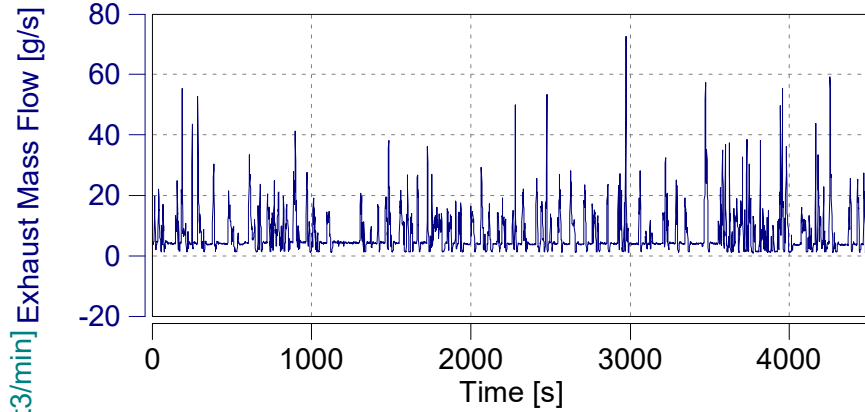
'City'

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)

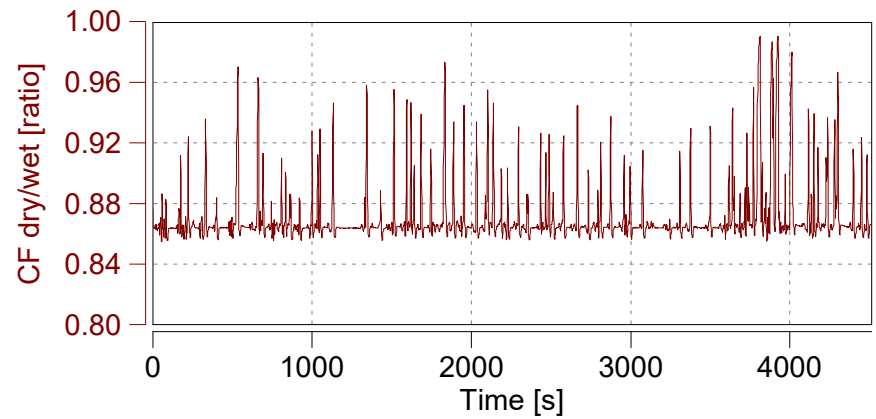
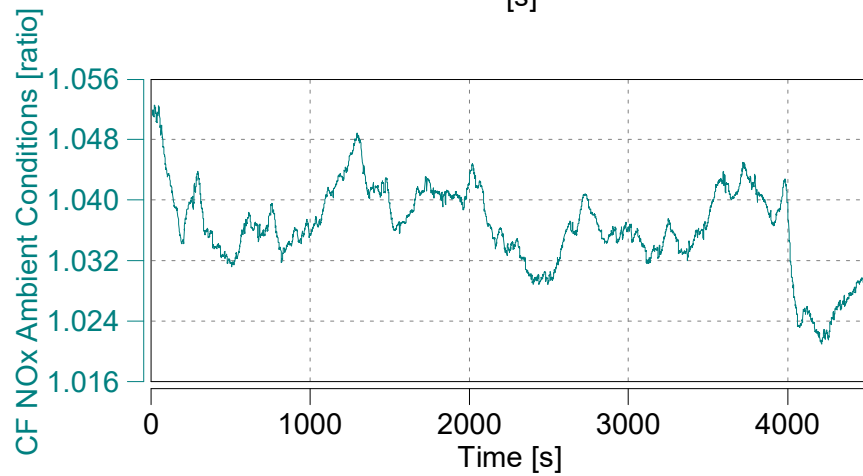
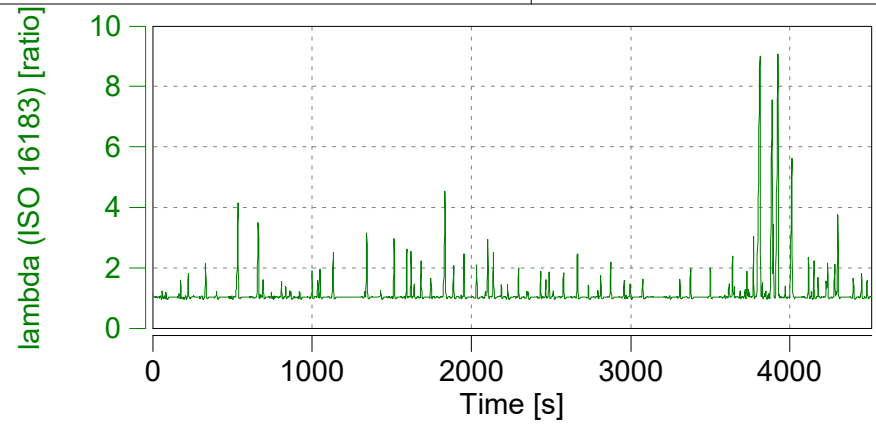
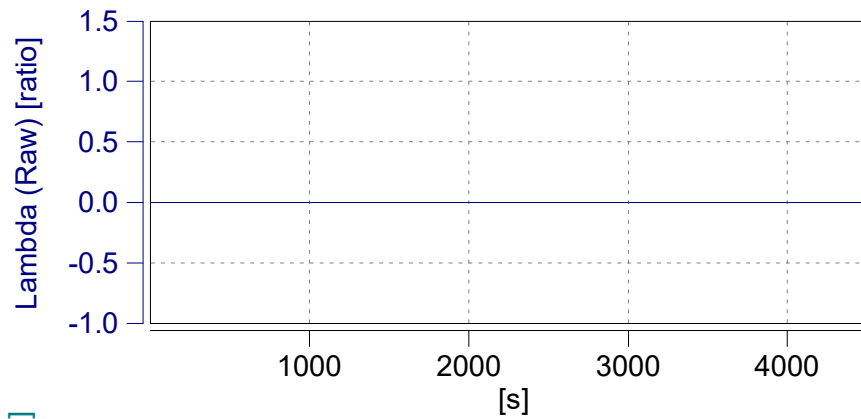
'City'

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)

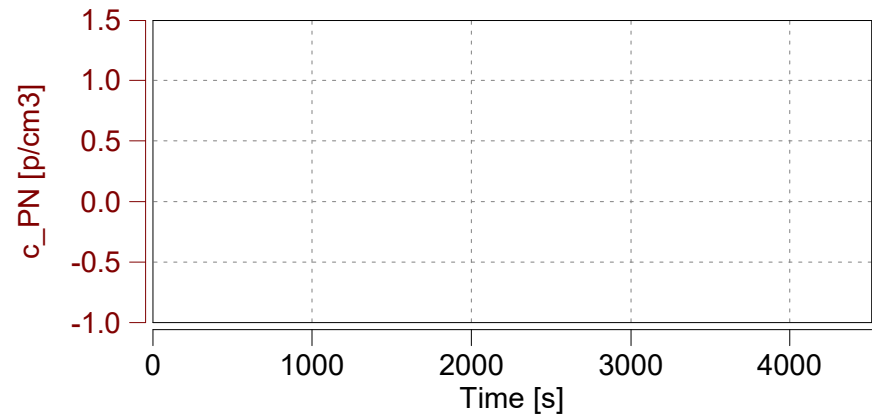
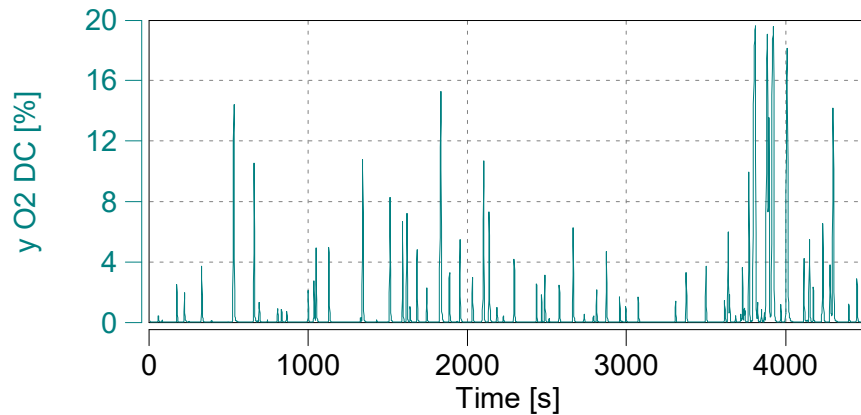
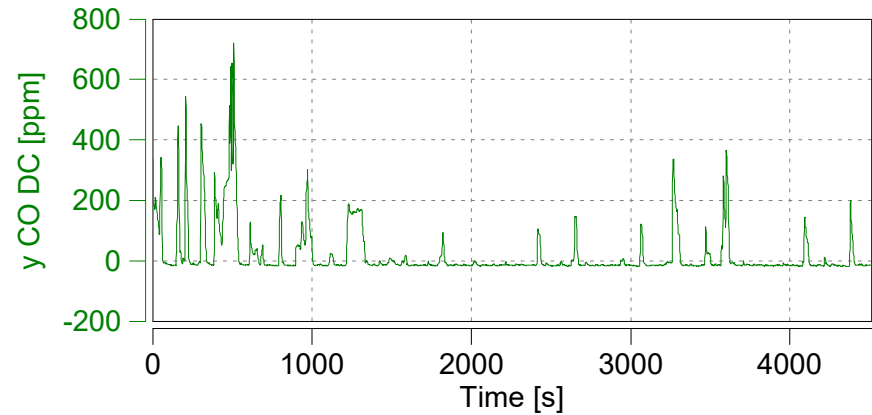
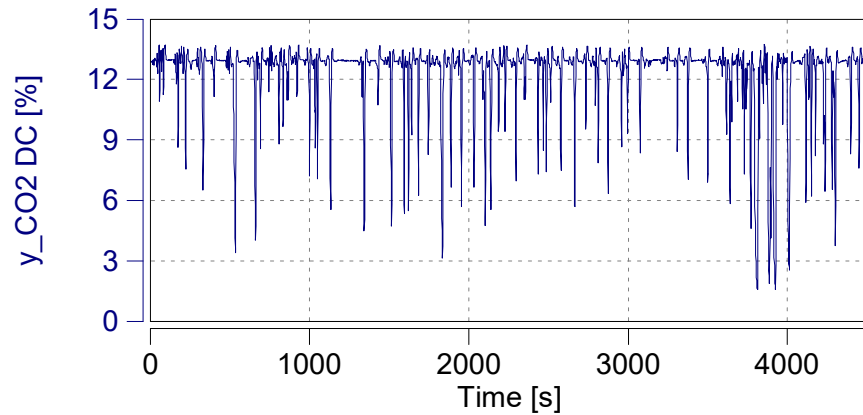
'City'

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)

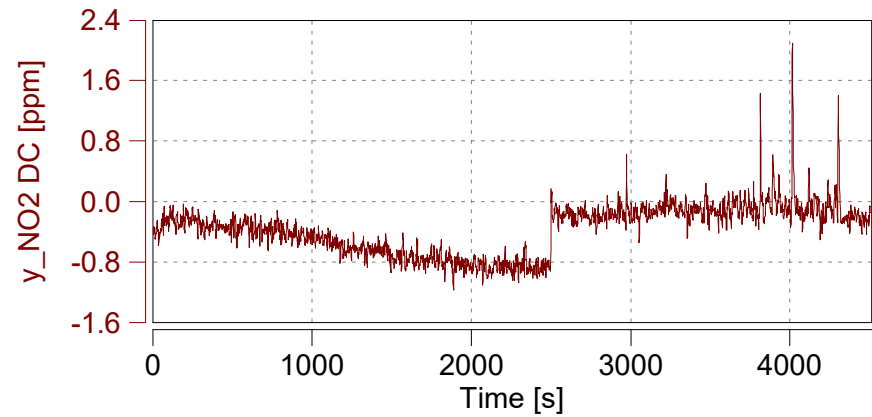
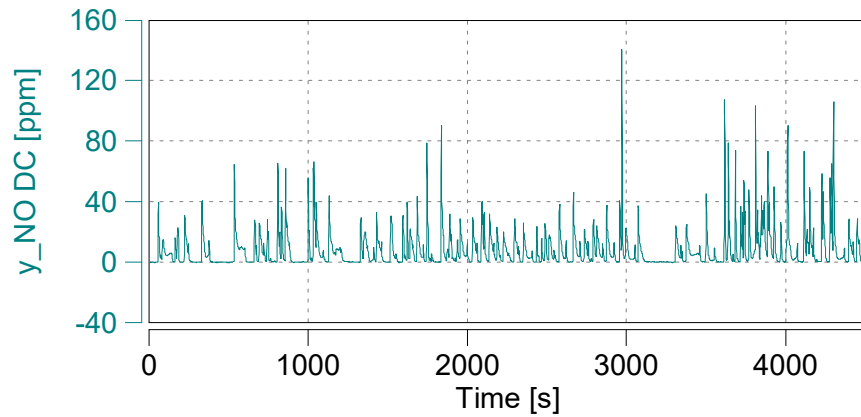
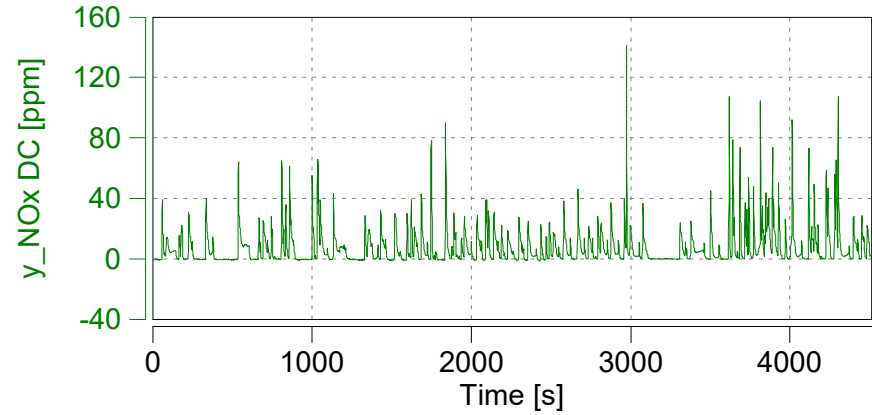
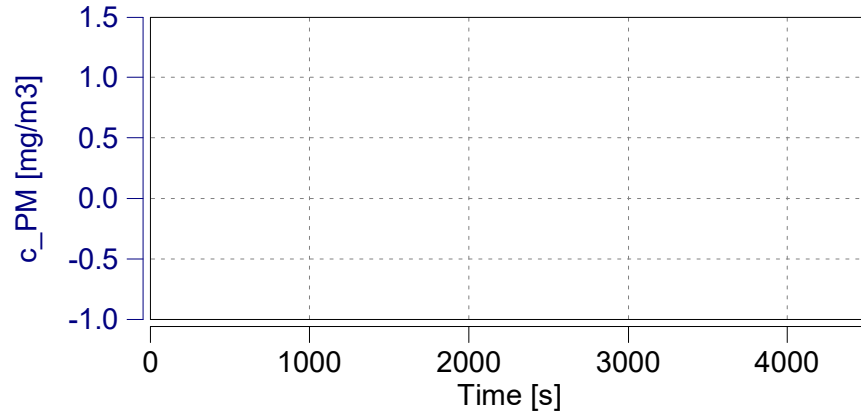
'City'

Start Date: 07/29/2019

Start Time: 19:09:12.0

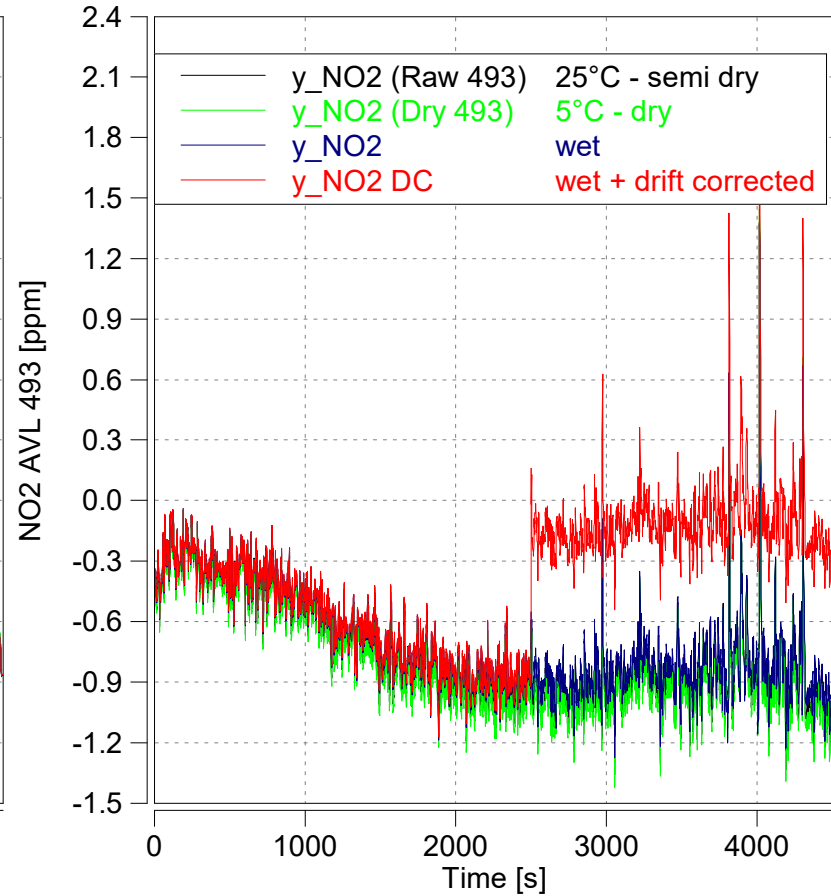
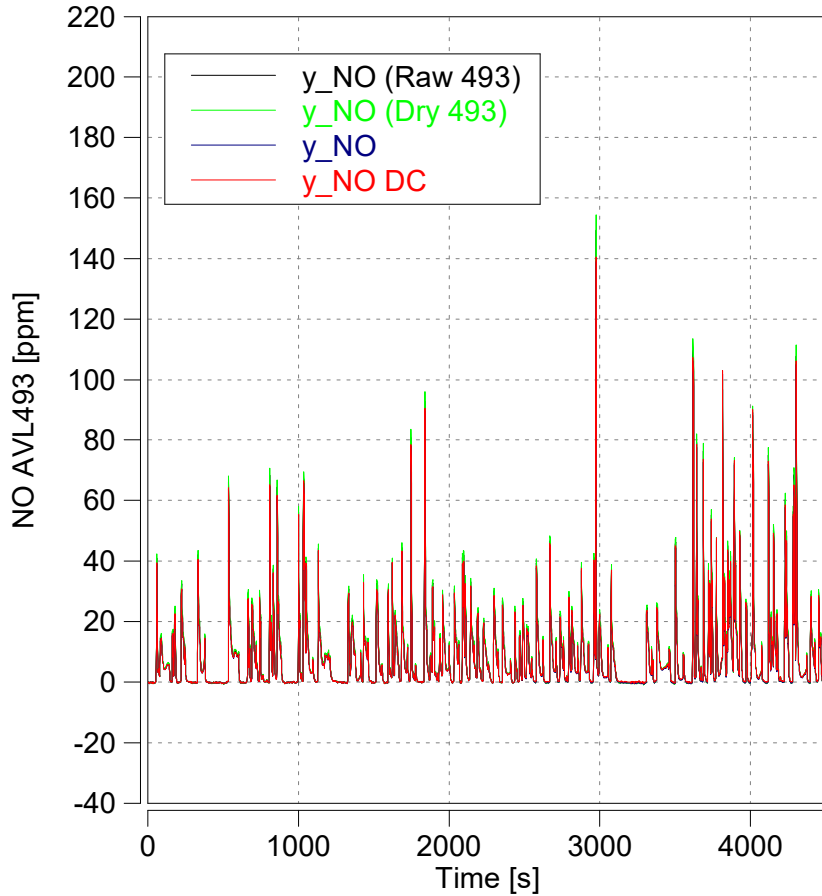


Concerto M.O.V.E., 2018



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

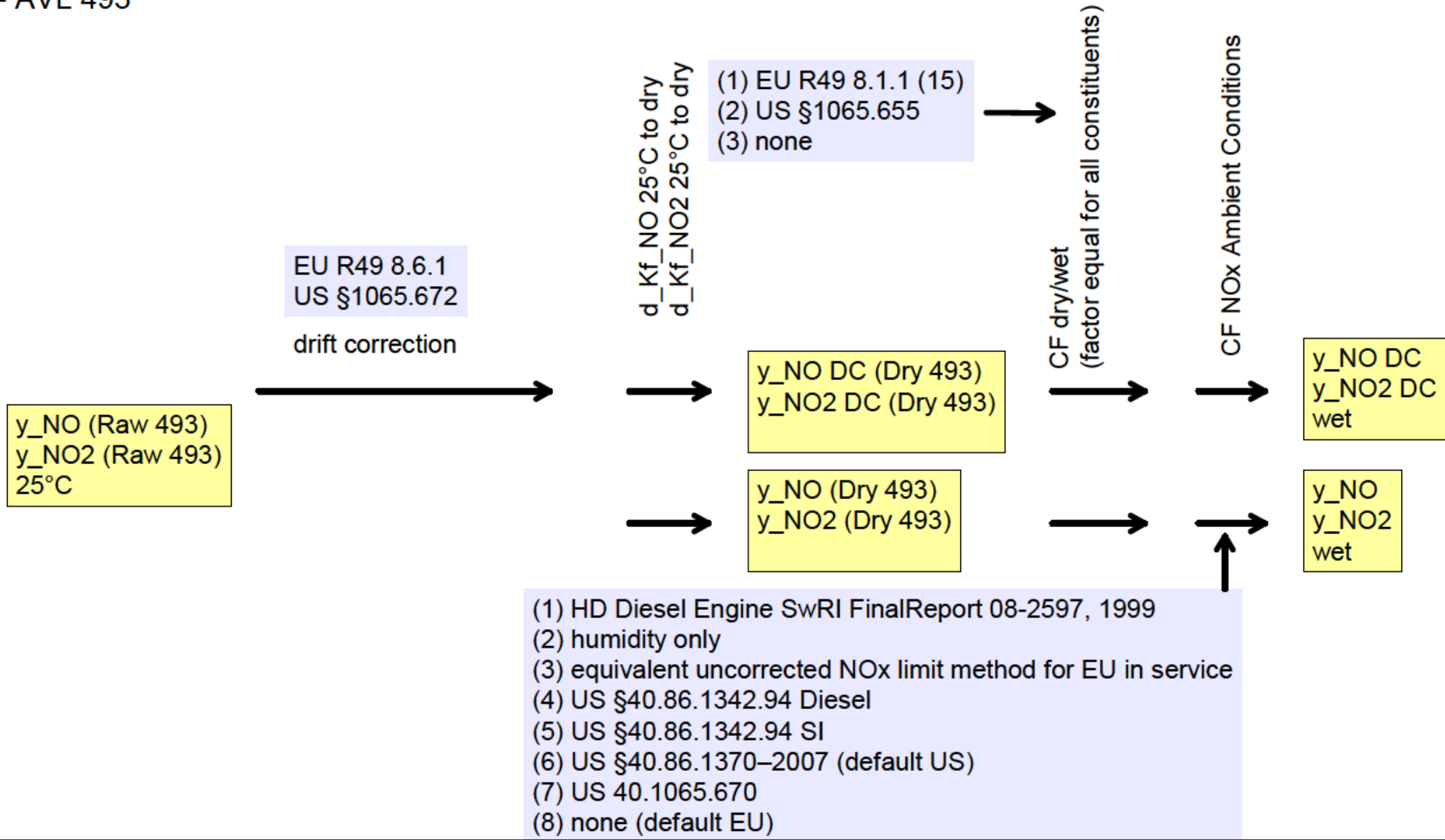


Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

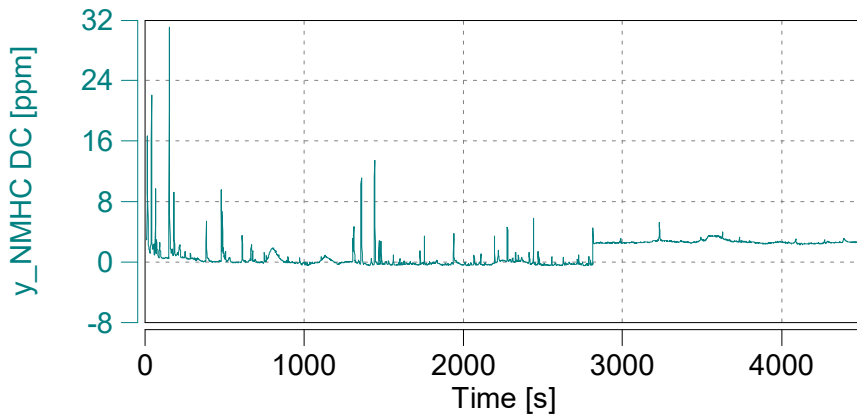
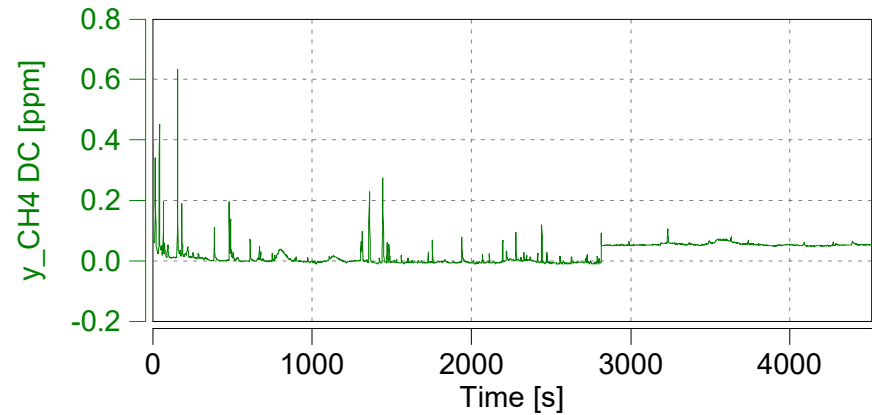
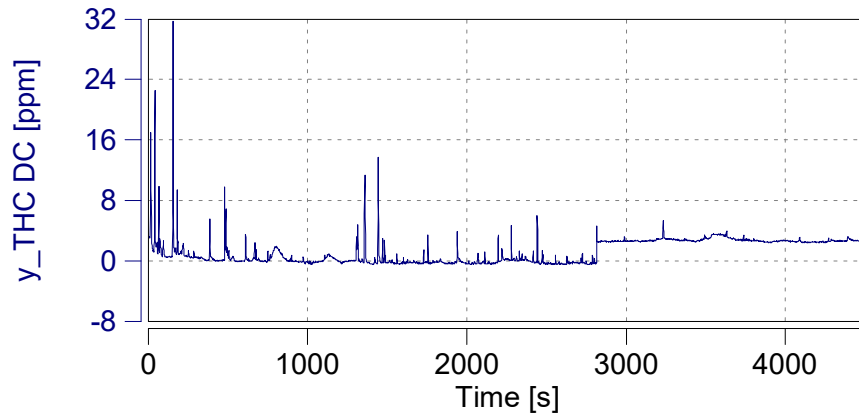
'City'

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

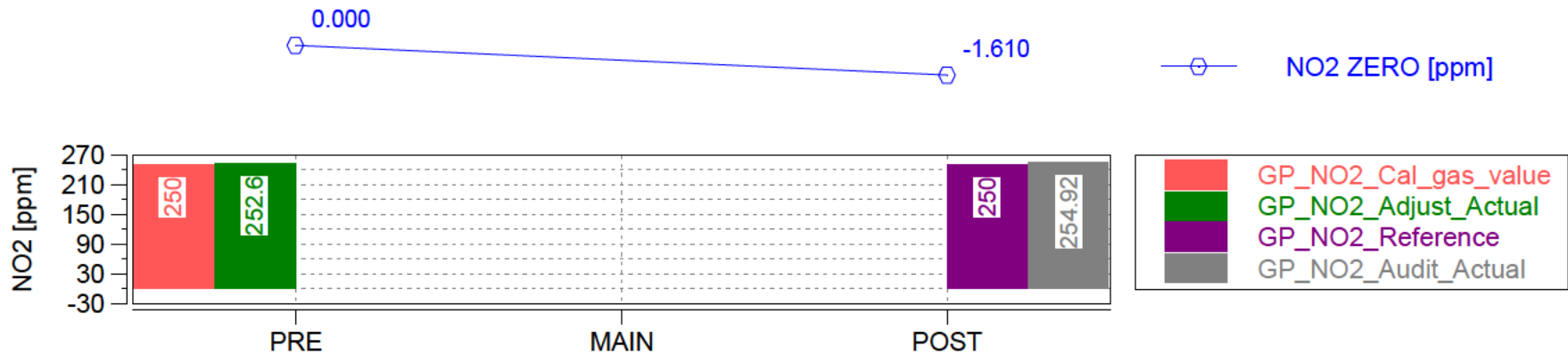
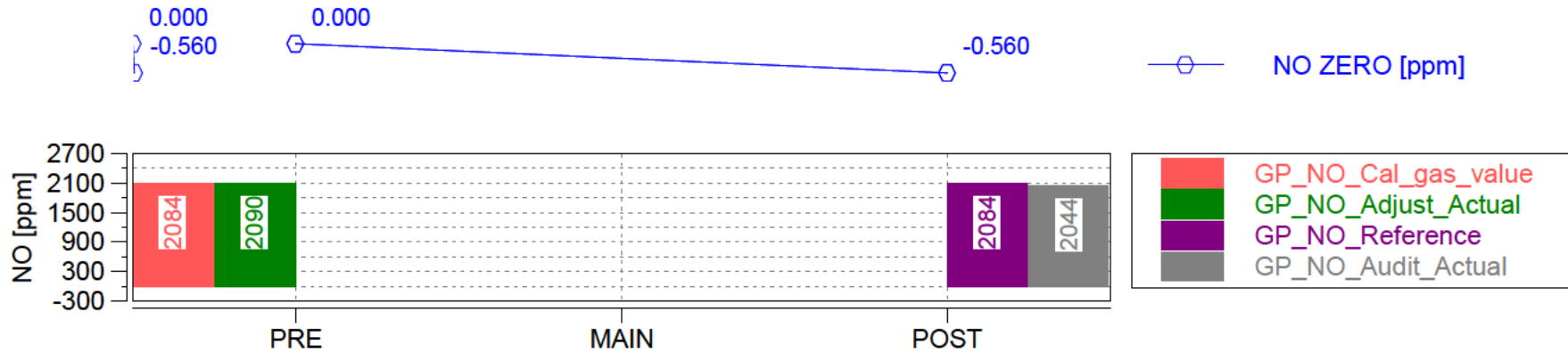
'City'

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

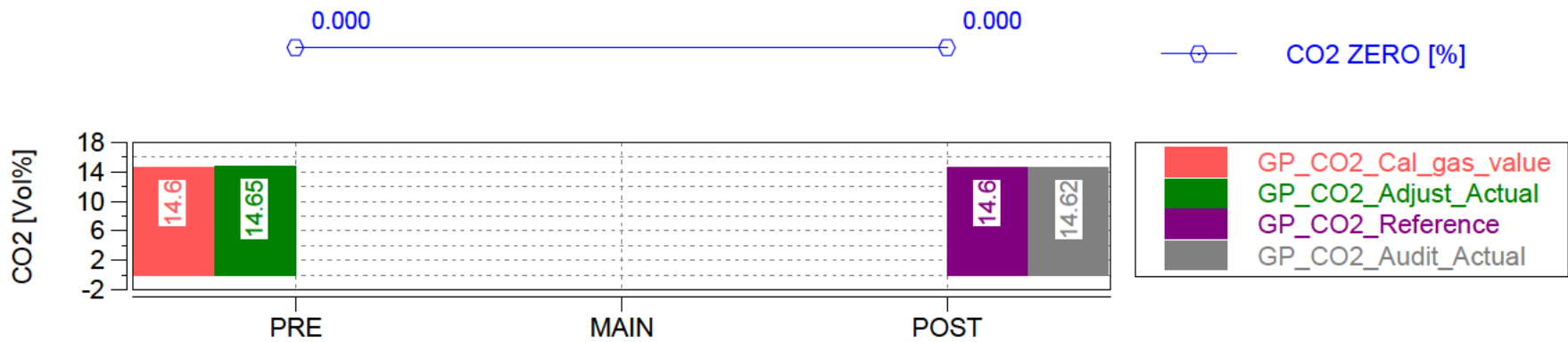
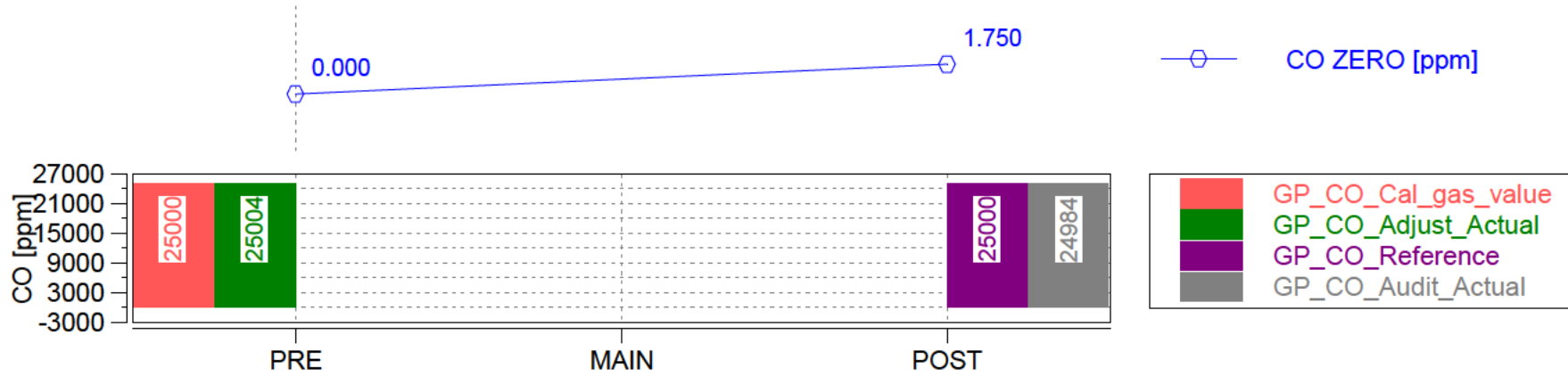
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Vehicle: Jetta / 1.4 L

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

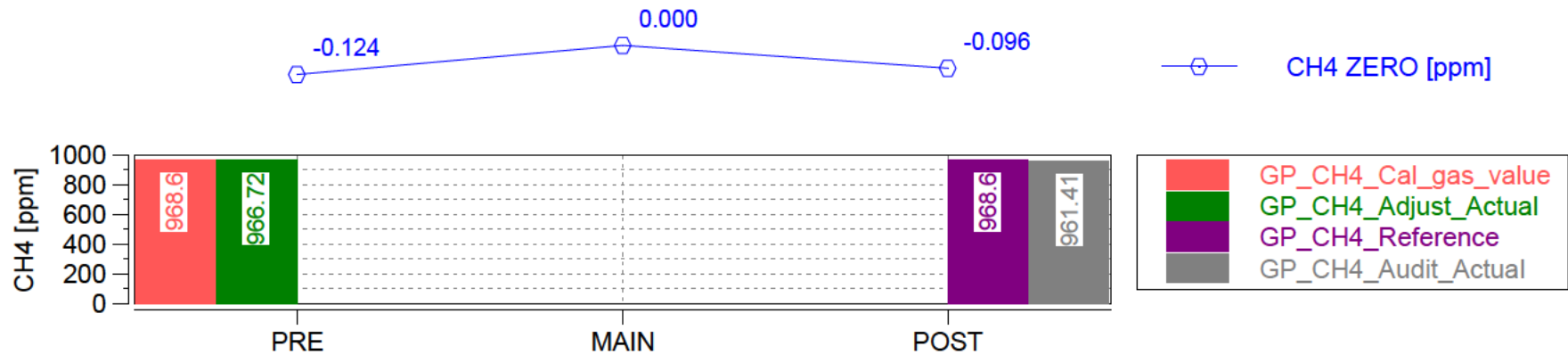
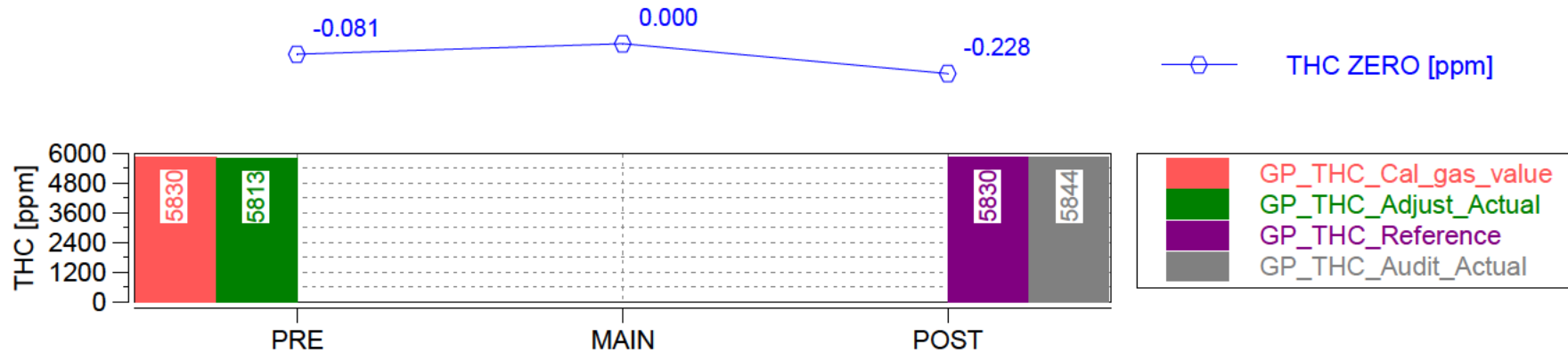
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Vehicle: Jetta / 1.4 L

Engine: /

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

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



Concerto Version: 480 Build 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
			ave CO2	12.43787	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx	5.61306	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)	2.80	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.77	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	0.03254	g	BS PN	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	0.99	gall	tot NMHC	0.03010	g			
Trip Fuel Cons. Volume US (ac)	0.98	gall	tot CH4	0.00072	g	DS CO2	216.85566	g/mi
			tot CO	9.11445	g	DS CO	0.23324	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2	8474.14045	g	DS THC	0.00083	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO (d)	0.28700	g	DS NMHC	0.00077	g/mi
Trip Fuel Economy EU (ac)	39.45	mpg_US	tot NO2	0.04407	g	DS CH4	0.00002	g/mi
Trip Fuel Economy US (ac)	39.89	mpg_US	tot NOx	0.33107	g	DS NO (d)	0.00734	g/mi
			tot Soot	n/a	g	DS NO2	0.00113	g/mi
Trip Av. Eng. Speed	1853.00	rpm	tot Soot meas	n/a	g	DS NOx	0.00847	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	43.27	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	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	74.90	deg_F				FS NMHC	n/a	g/kg
Trip Av. Humidity	57.38	%	Trip Av. Veh. Speed	58.25192	mi/hr	FS CH4	n/a	g/kg
			Trip Velocity Zero	4.14079	%	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: 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
			ave CO2 DC	12.36166	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	5.62959	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)	2.80	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	2.77	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	0.03546	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	0.99	gall	tot NMHC DC	0.03280	g			
Trip Fuel Cons. Volume US (ac)	0.98	gall	tot CH4 DC	0.00079	g	DS CO2 DC	215.52707	g/mi
			tot CO DC	9.11673	g	DS CO DC	0.23330	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	8422.22264	g	DS THC DC	0.00091	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.28818	g	DS NMHC DC	0.00084	g/mi
Trip Fuel Economy EU (ac)	39.45	mpg_US	tot NO2 DC	0.04374	g	DS CH4 DC	0.00002	g/mi
Trip Fuel Economy US (ac)	39.89	mpg_US	tot NOx DC	0.33193	g	DS NO DC (d)	0.00737	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00112	g/mi
Trip Av. Eng. Speed	1853.00	rpm	tot Soot meas	n/a	g	DS NOx DC	0.00849	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	43.27	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	74.90	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	57.38	%	Trip Av. Veh. Speed	58.25192	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	4.14079	%	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

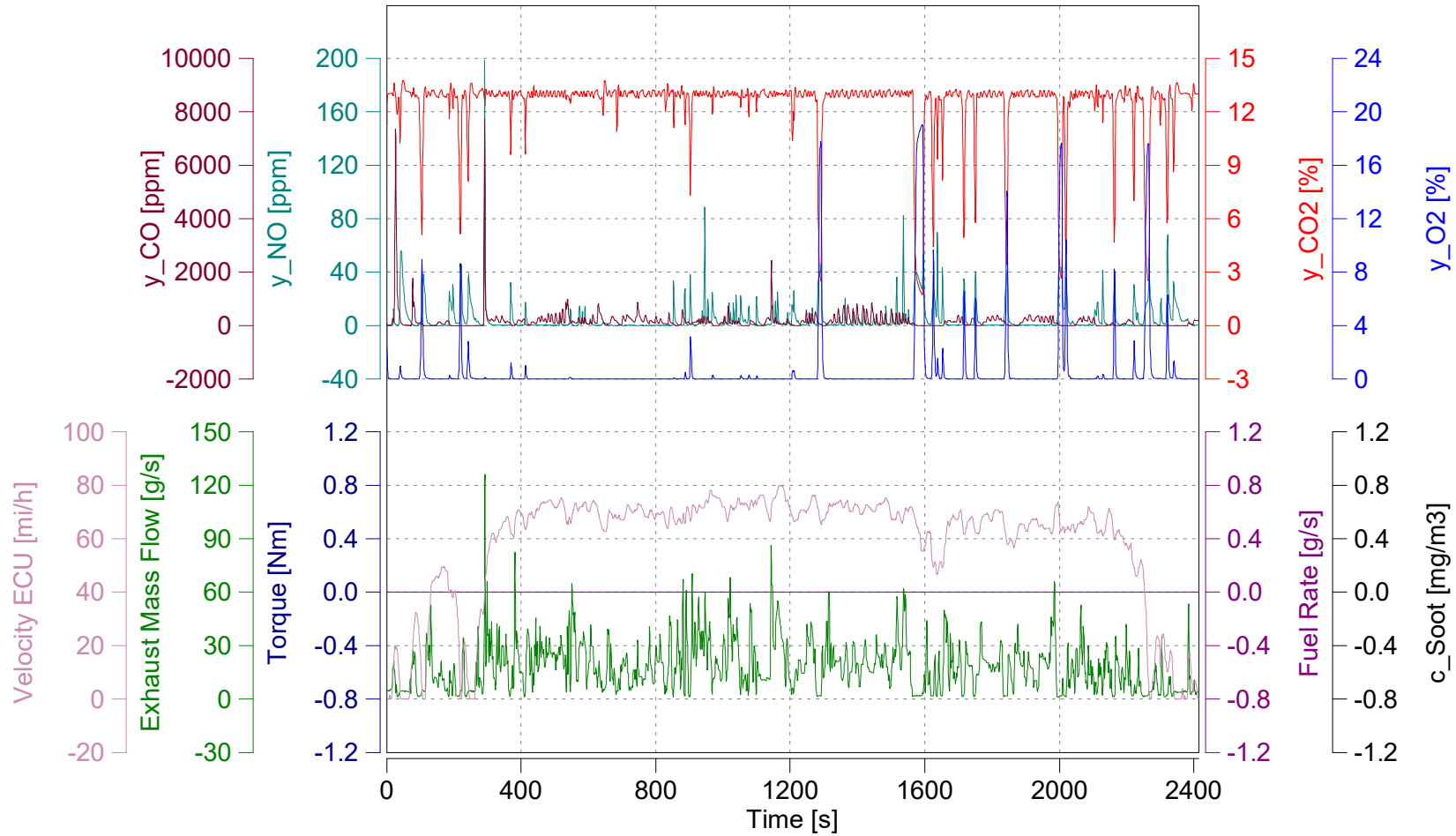
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Vehicle: Jetta / 1.4L

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

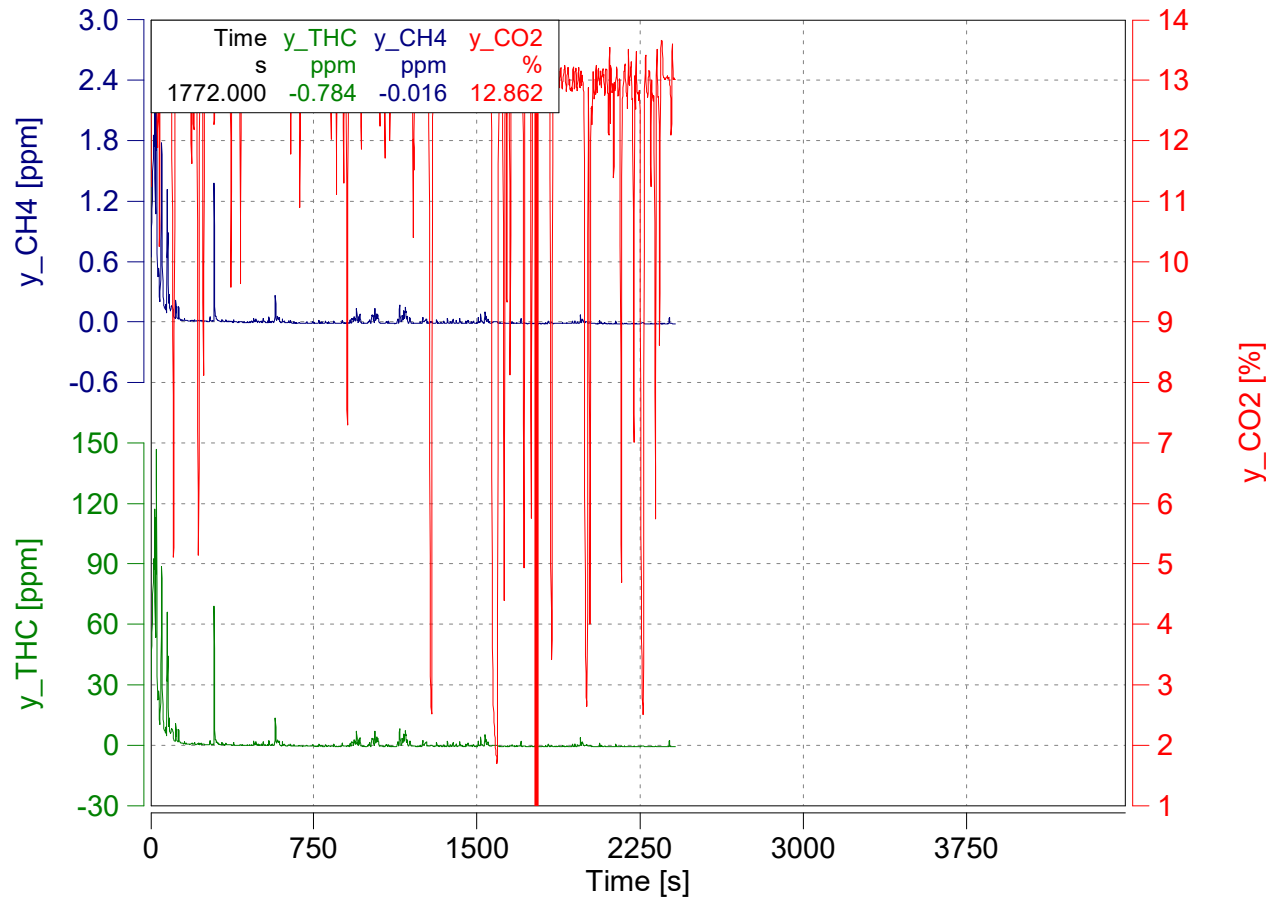
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Vehicle: Jetta / 1.4L

Engine: /

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

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

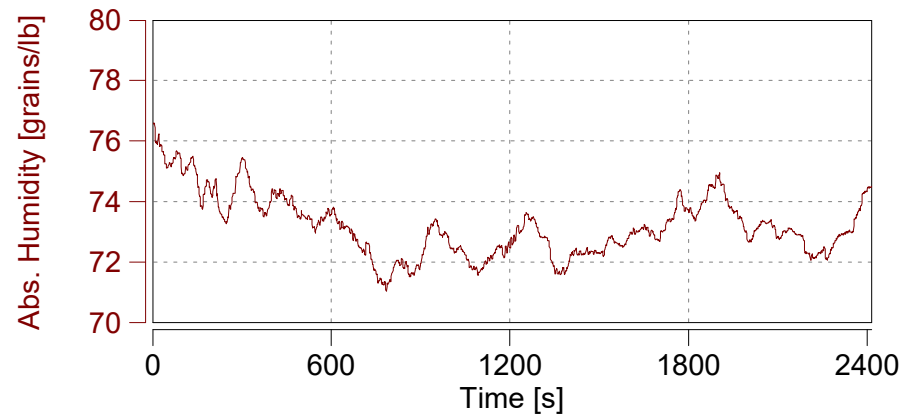
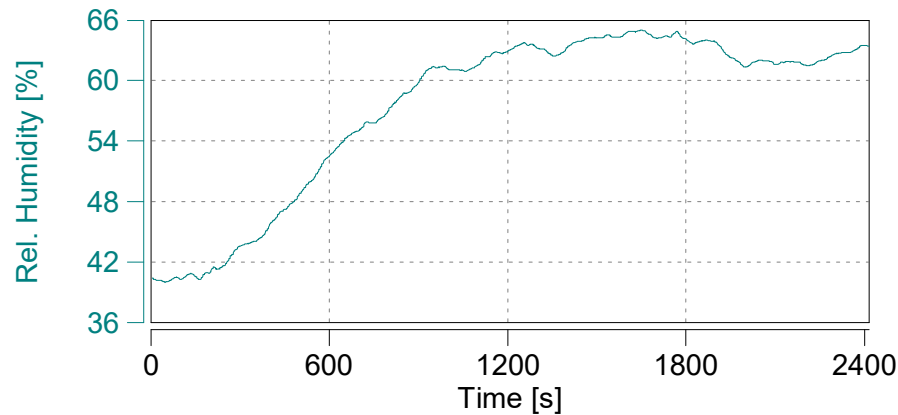
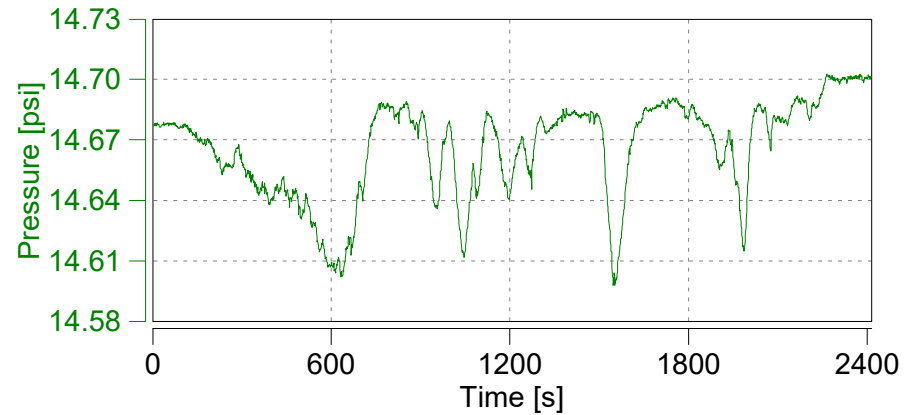
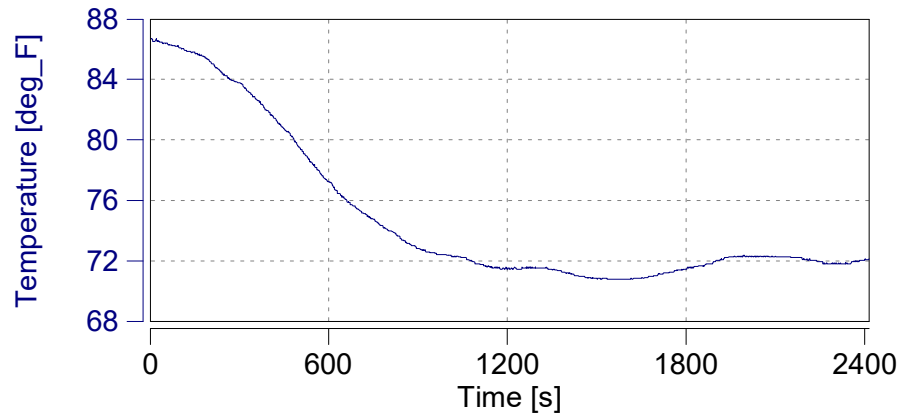


Absolute Time Shifts

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: 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

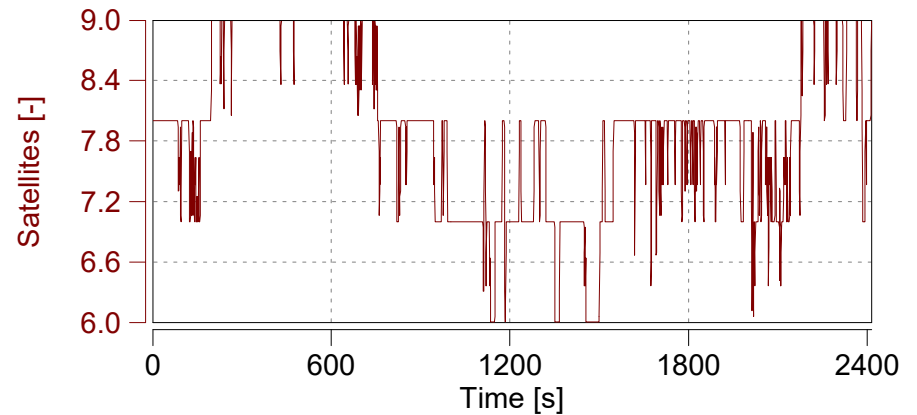
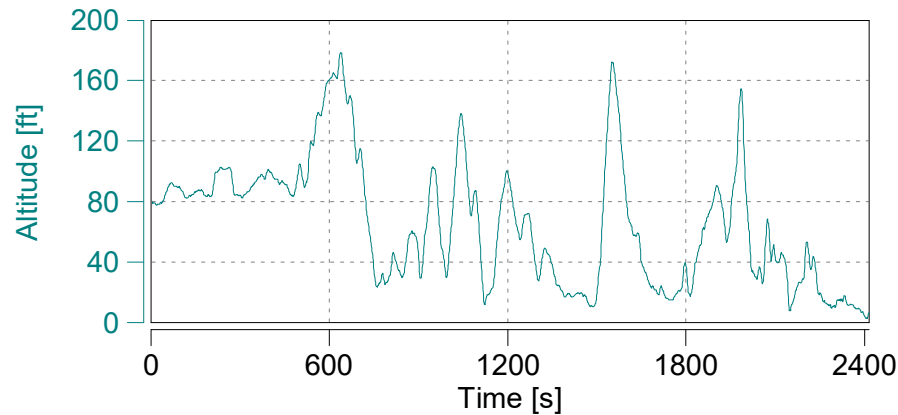
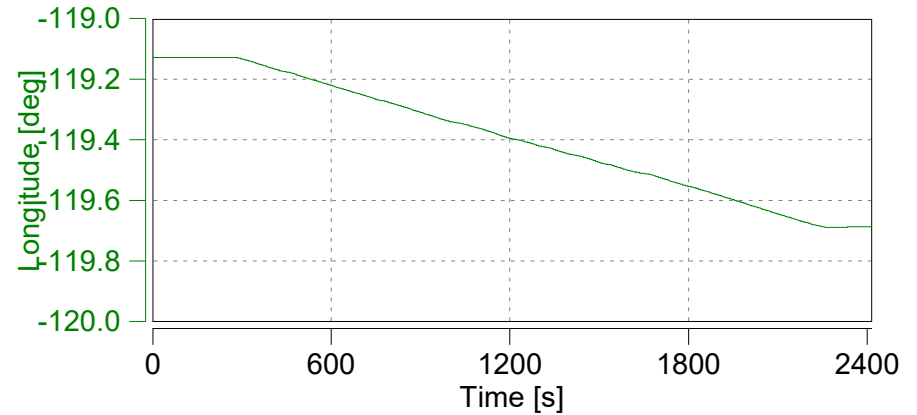
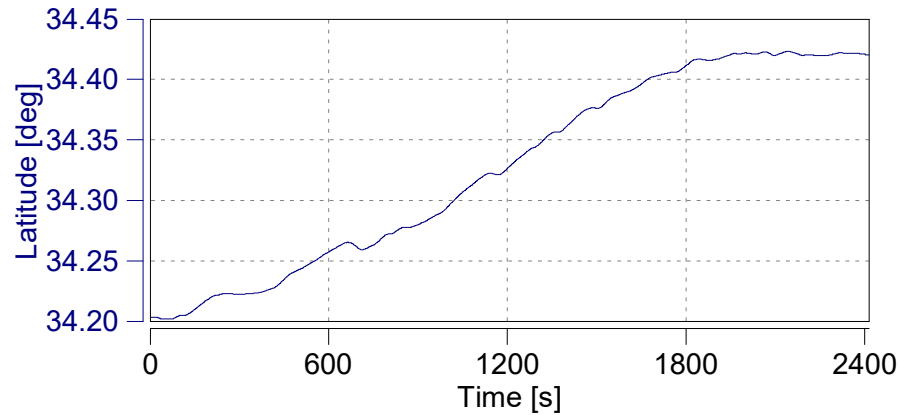
'Highway'

Start Date: 07/29/2019

Start Time: 12:44:58.0

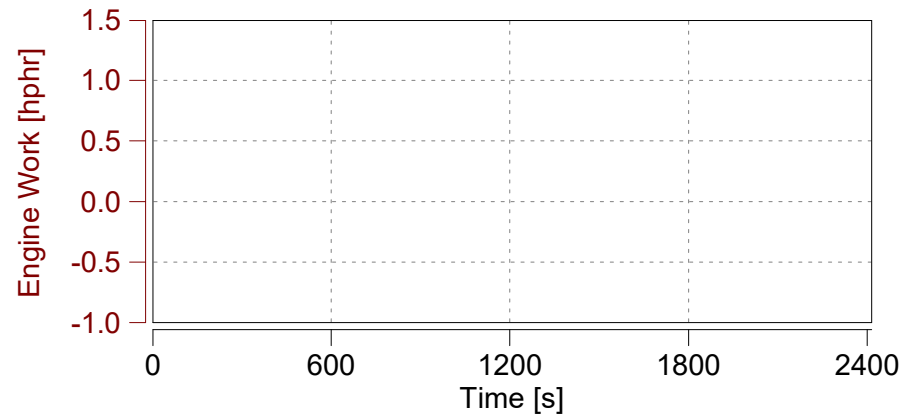
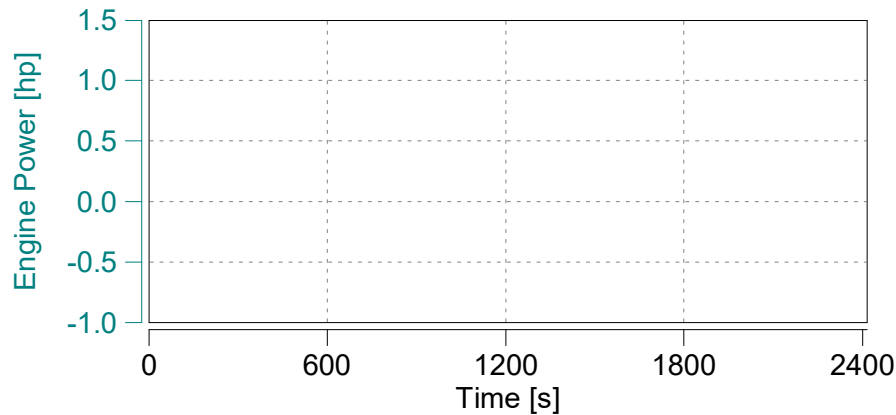
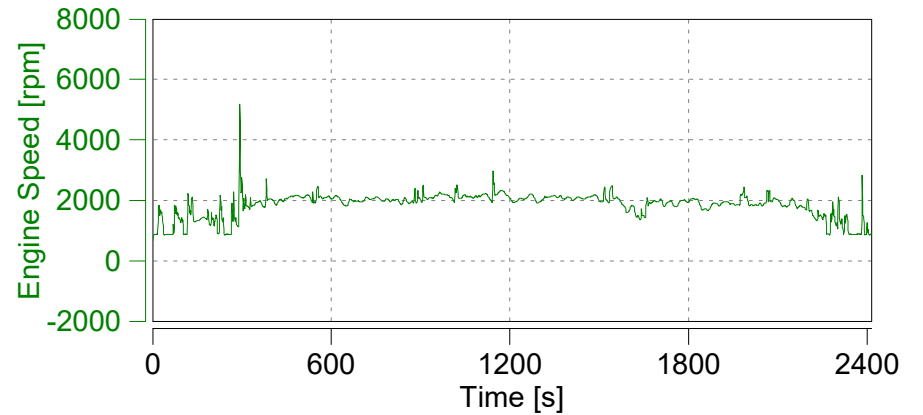
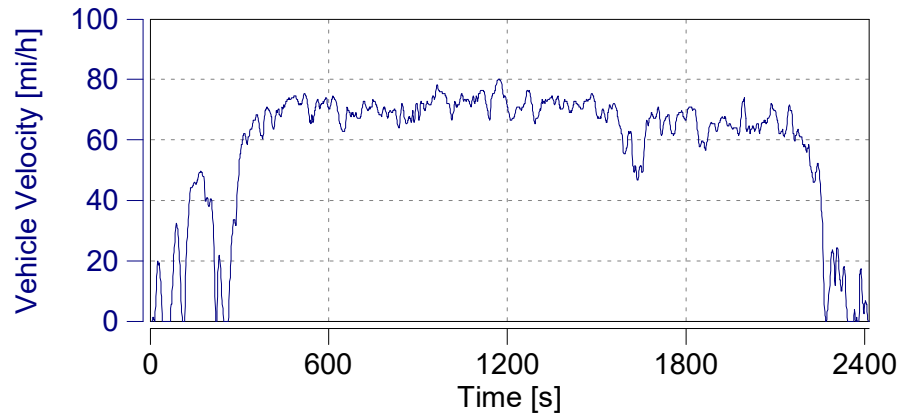


Concerto M.O.V.E., 2018



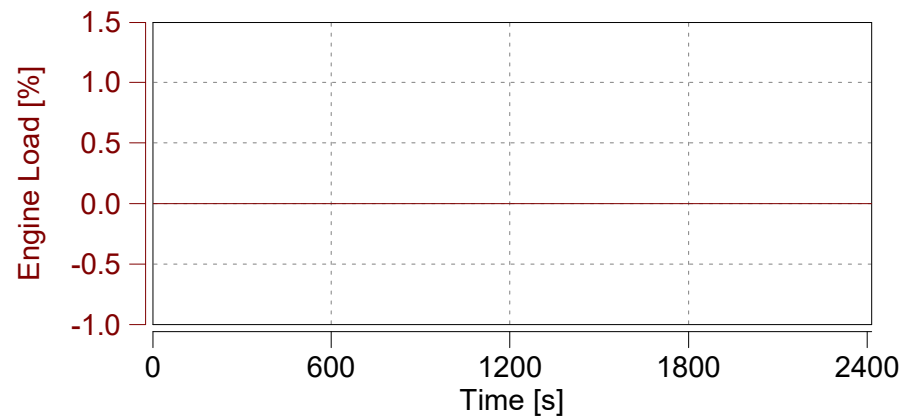
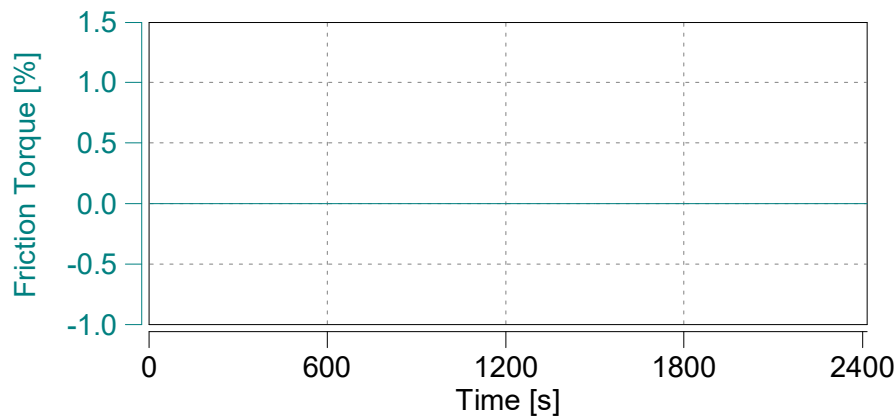
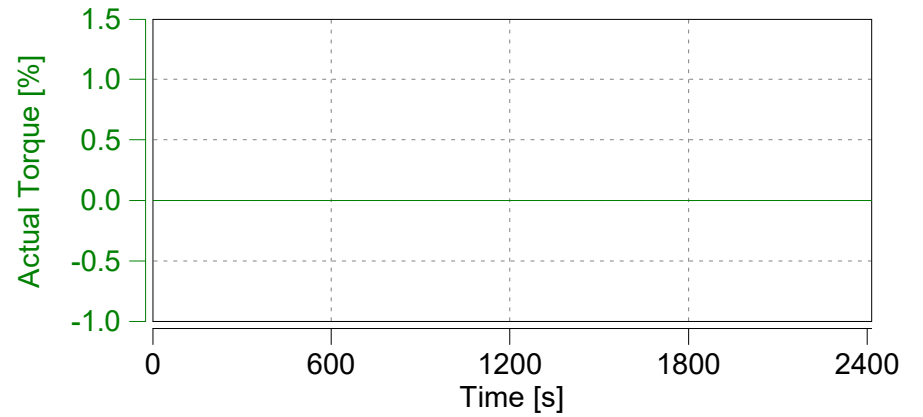
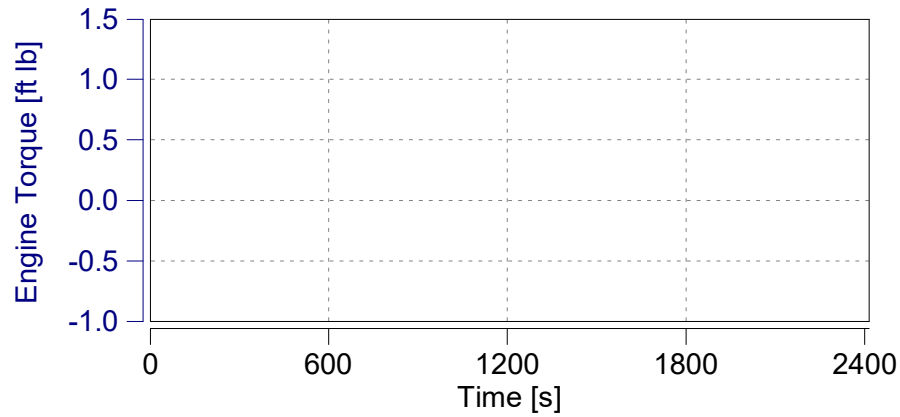
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

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



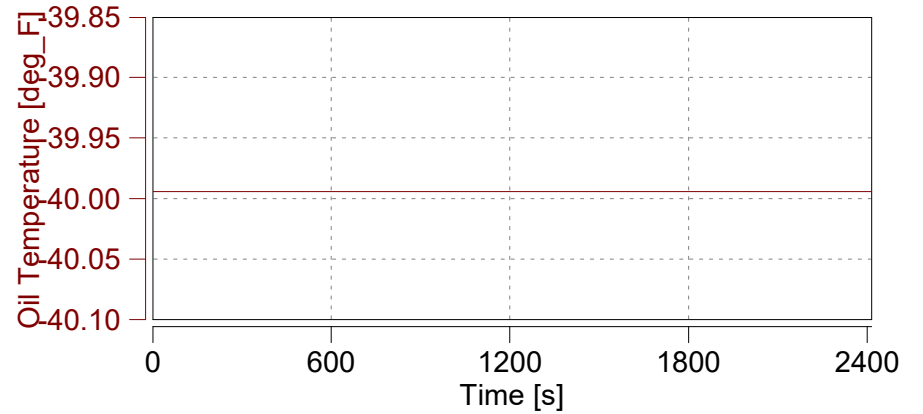
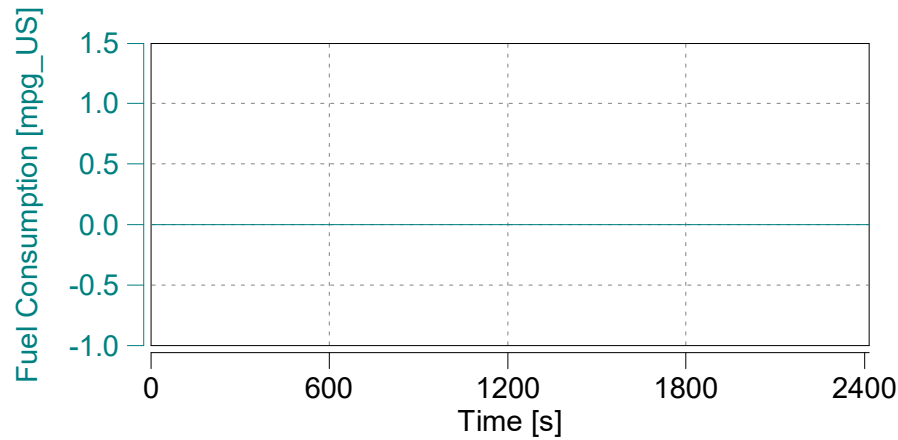
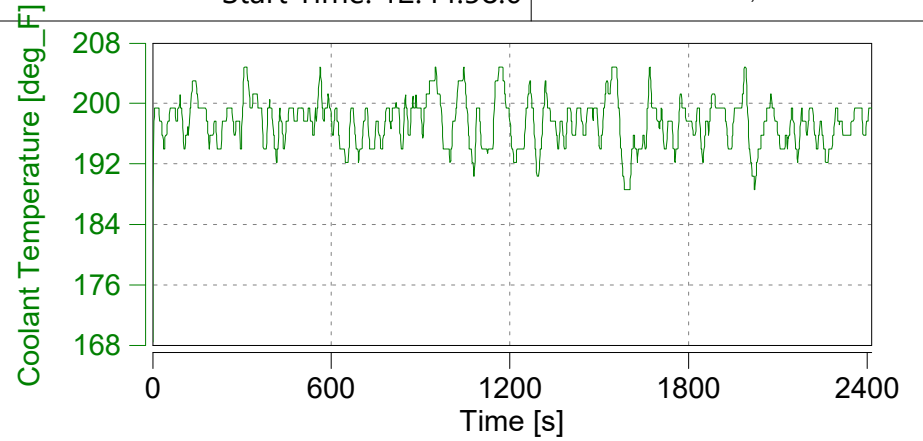
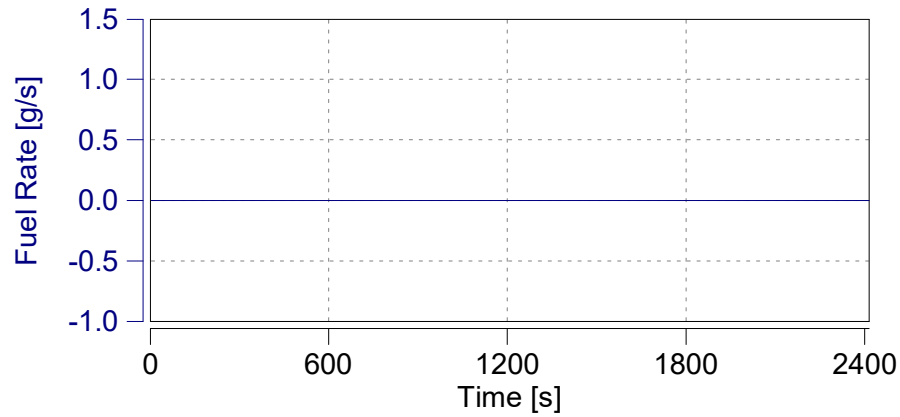
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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: Highway

Page: Exhaust Flow (1)

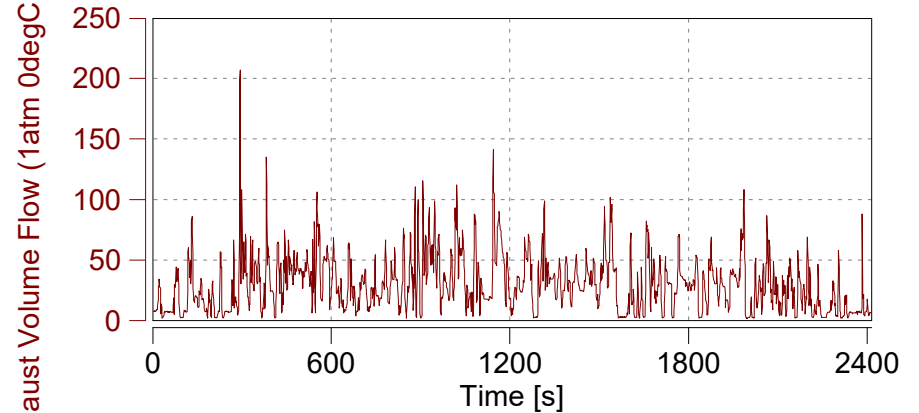
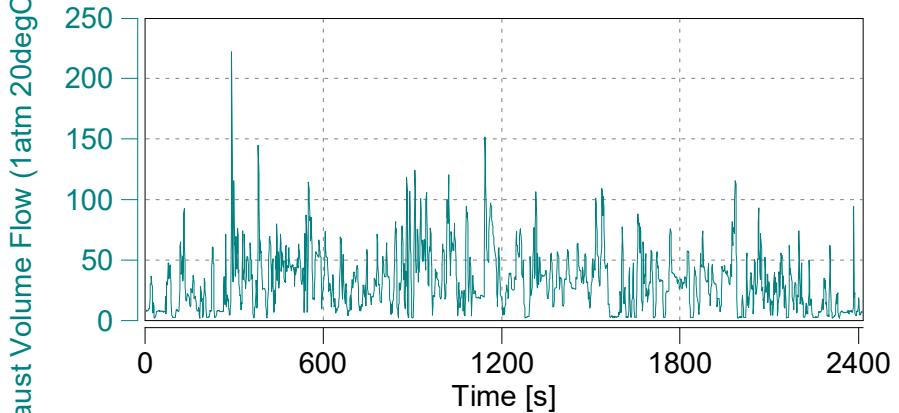
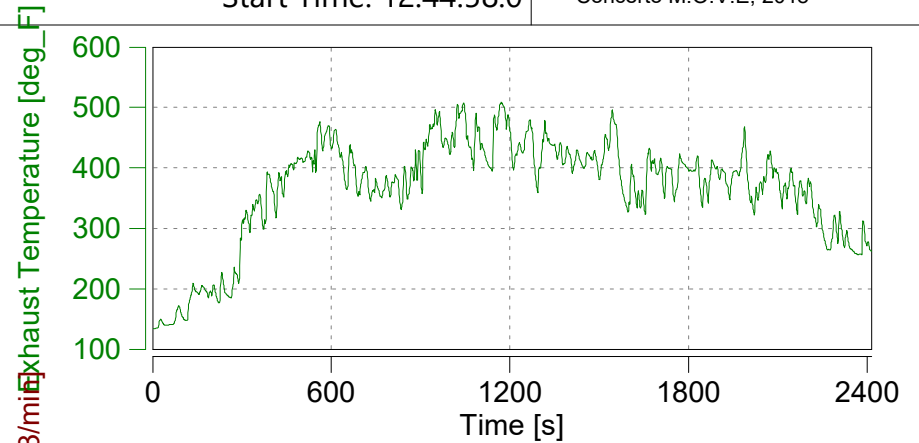
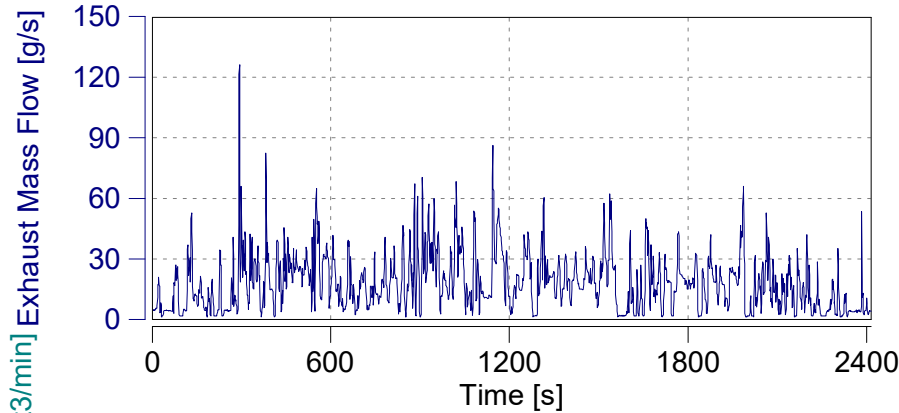
'Highway'

Start Date: 07/29/2019

Start Time: 12:44:58.0

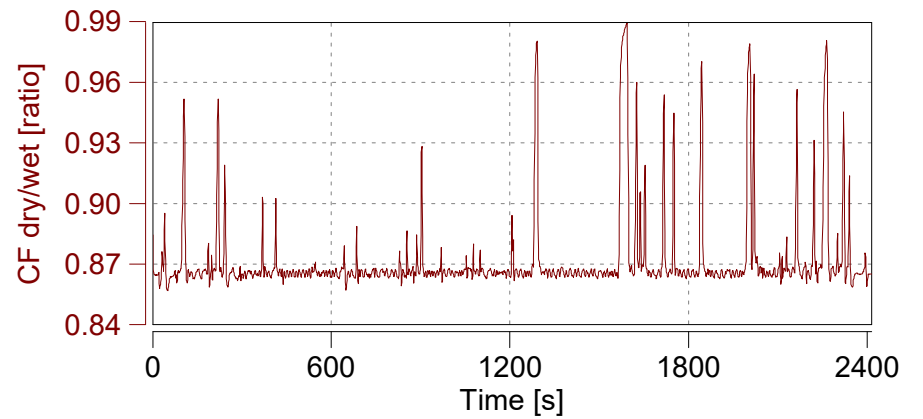
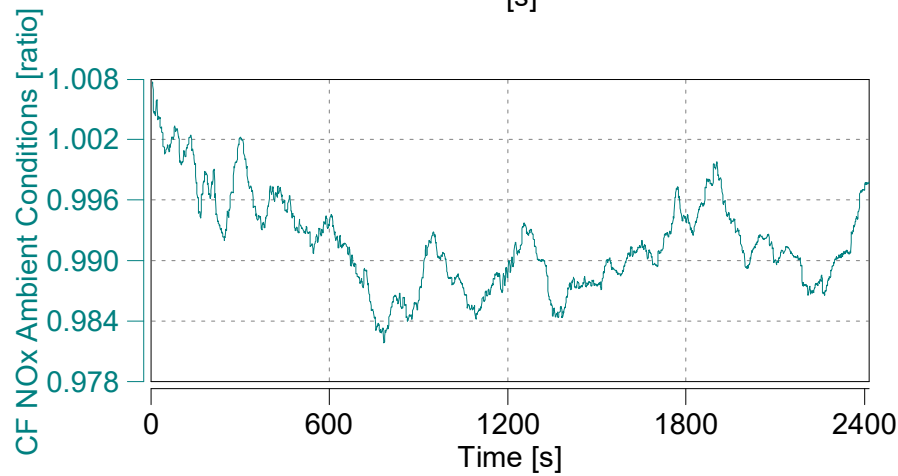
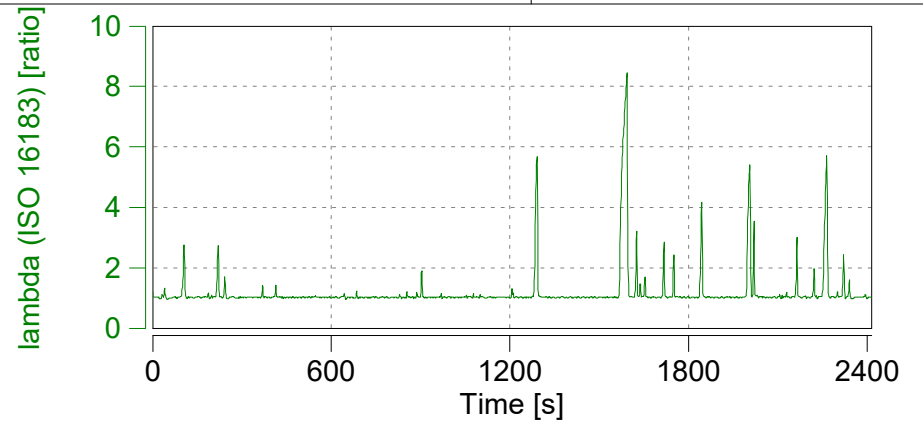
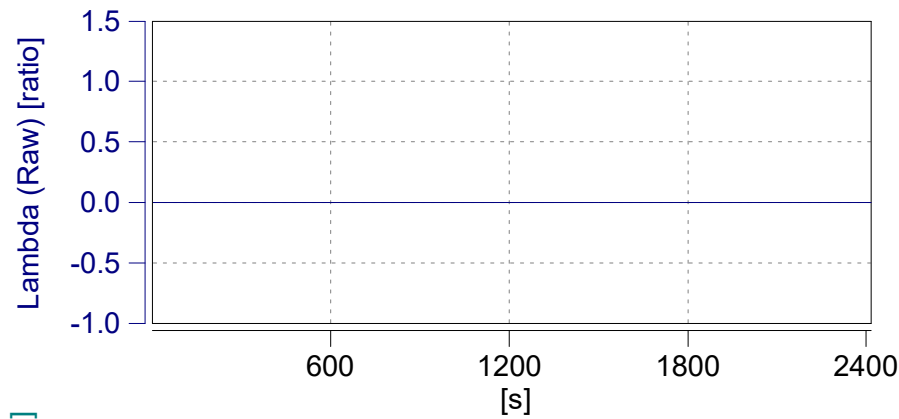


Concerto M.O.V.E, 2018



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

Case: Highway

Page: Corrected Emissions (1)

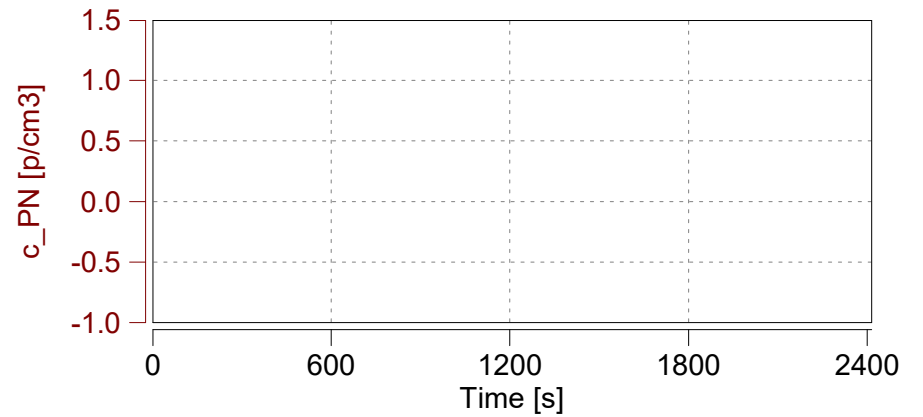
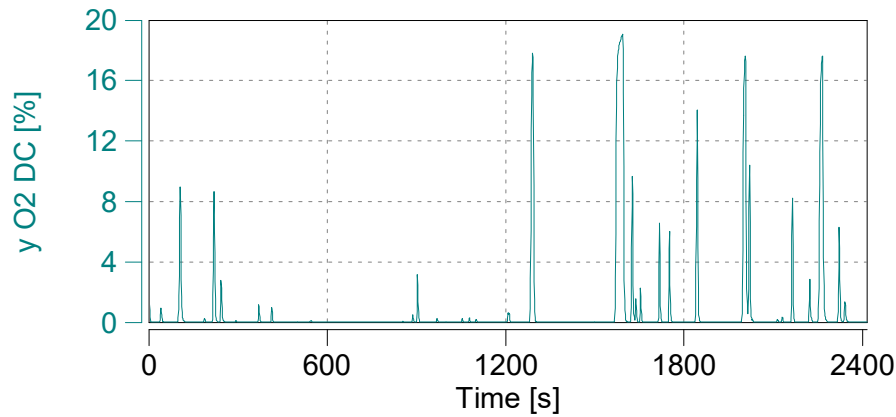
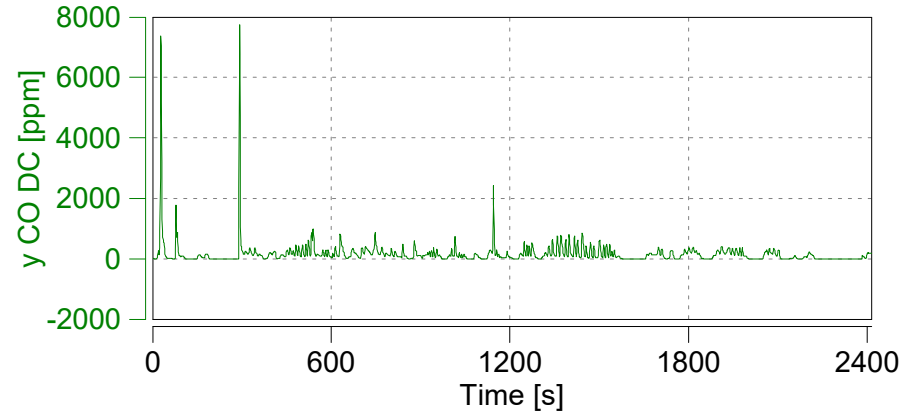
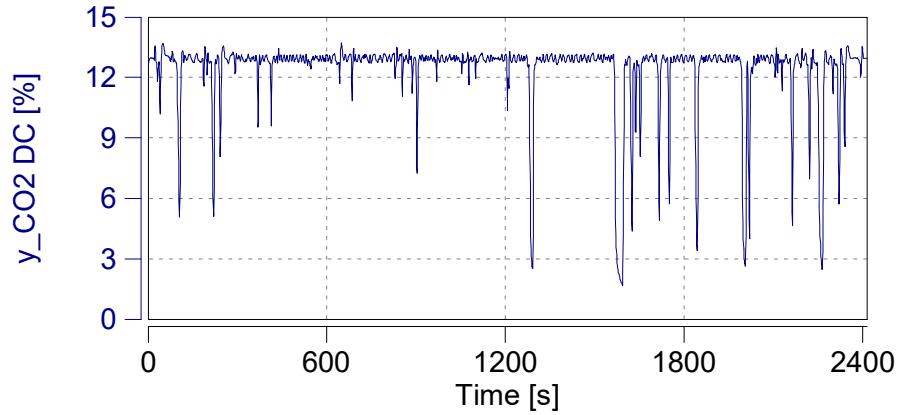
'Highway'

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

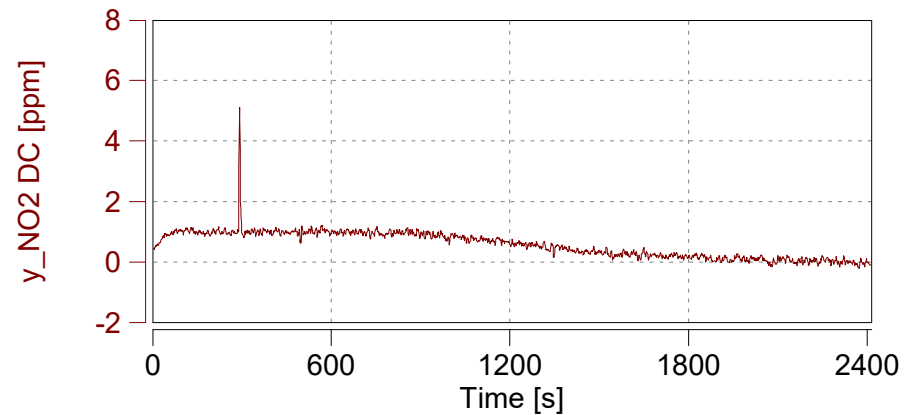
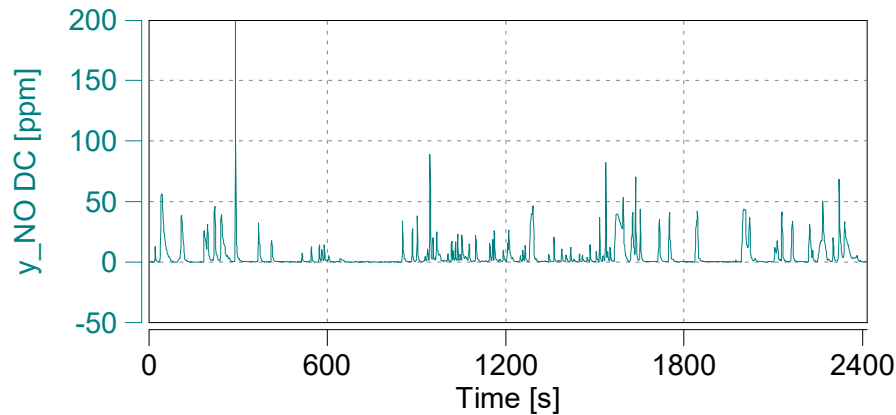
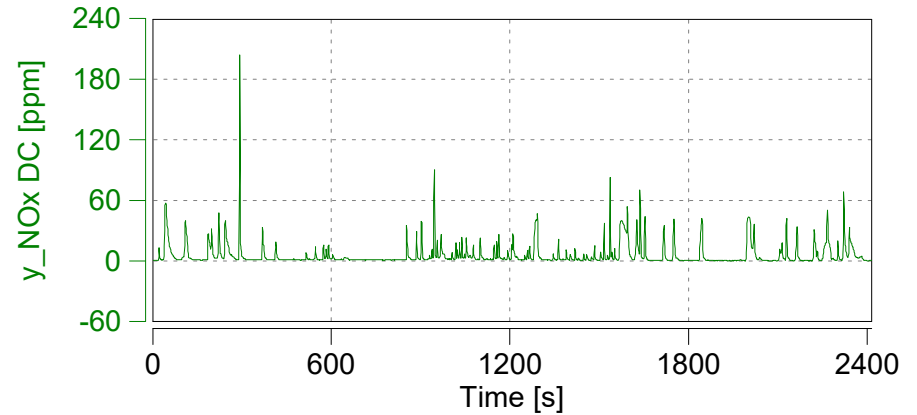
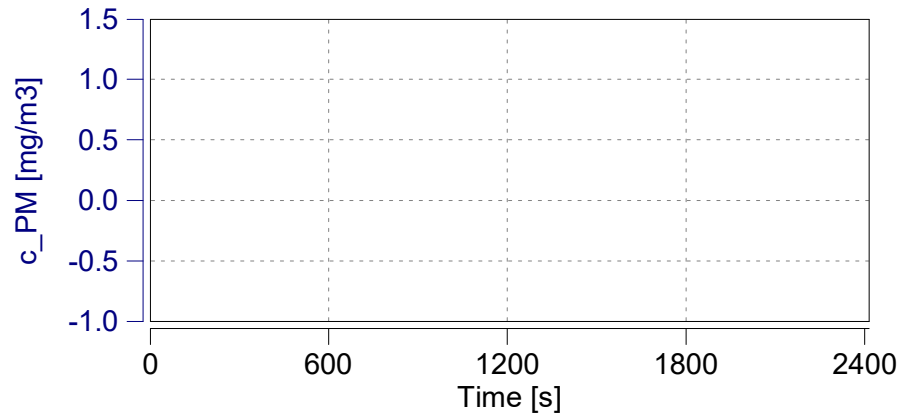
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Vehicle: Jetta / 1.4L

Engine: /

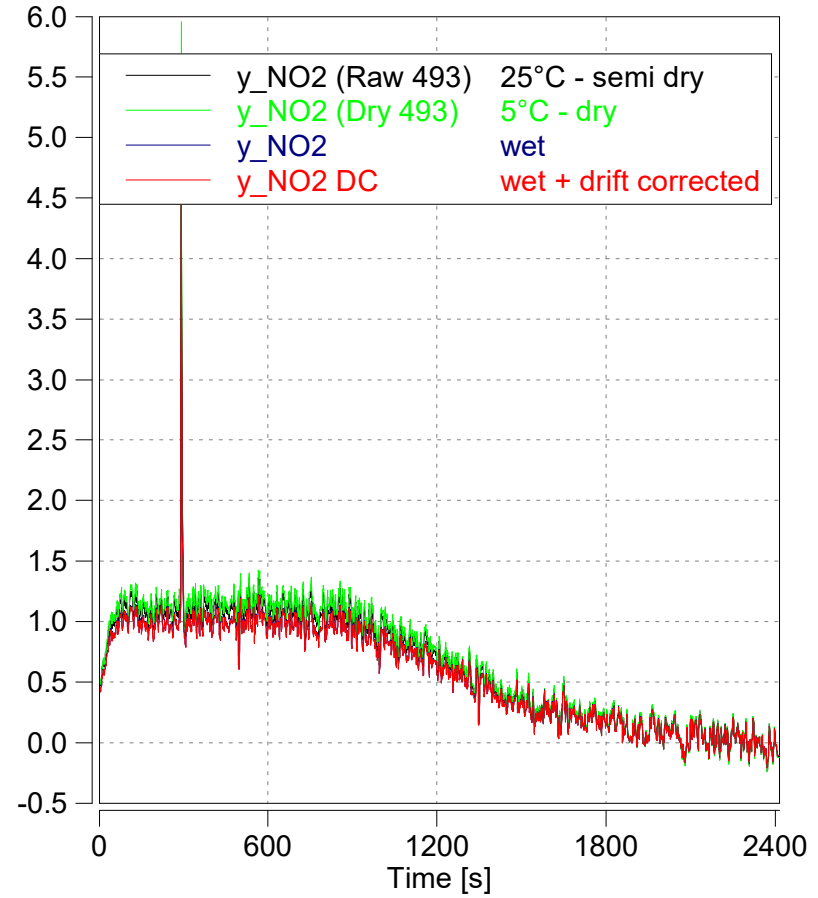
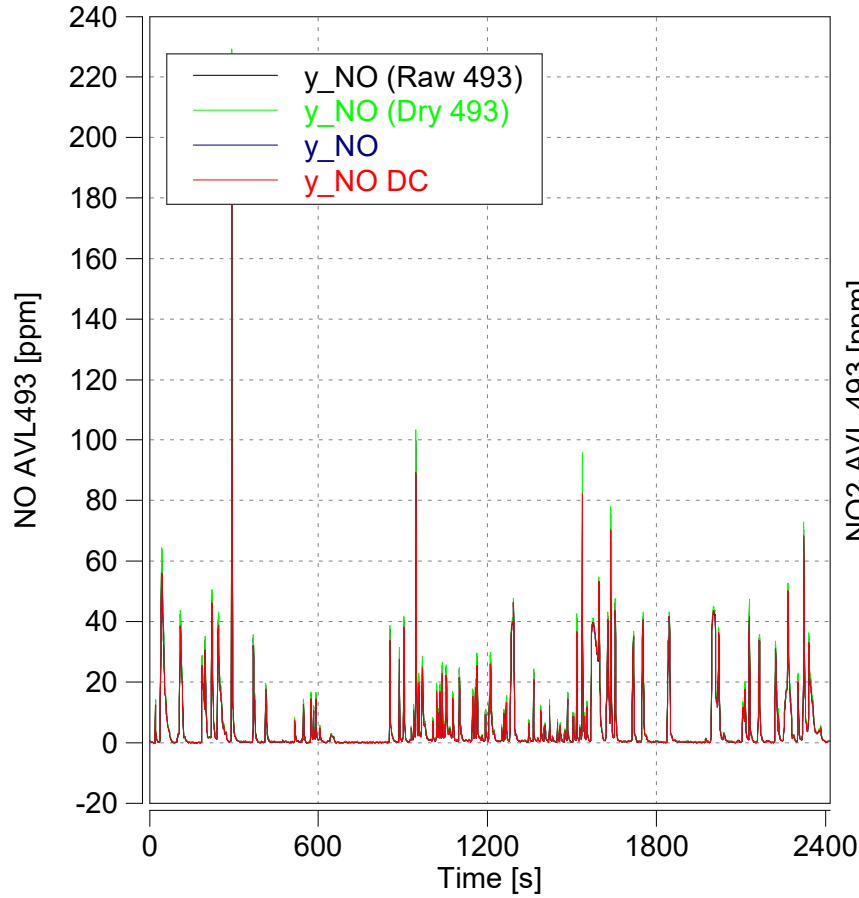
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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

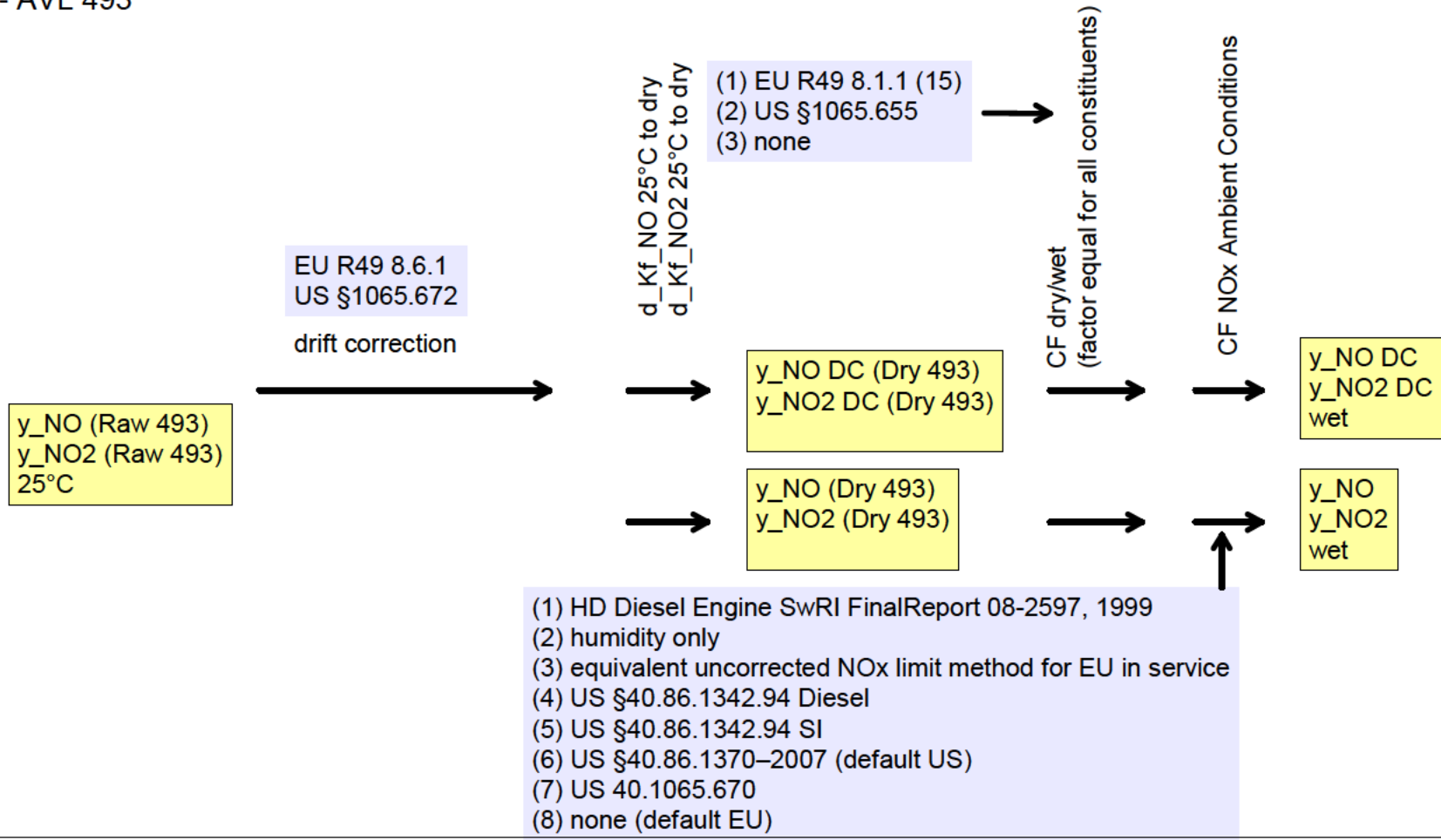


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

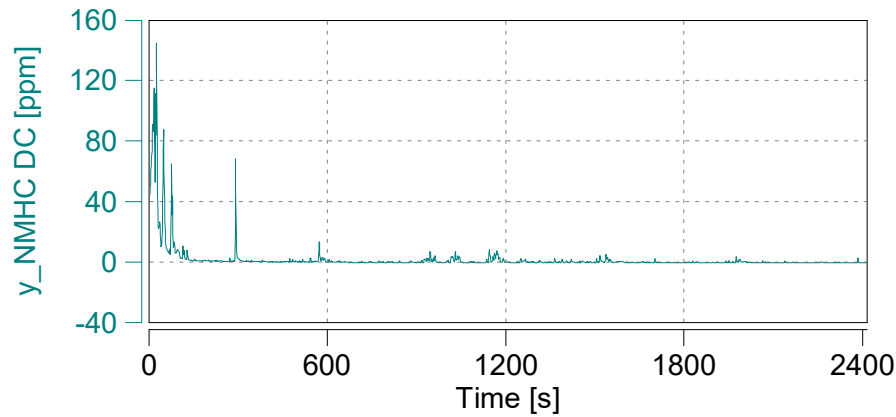
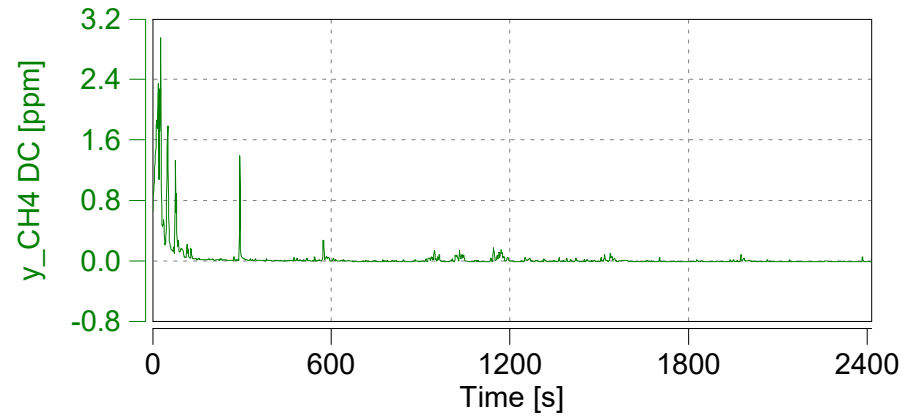
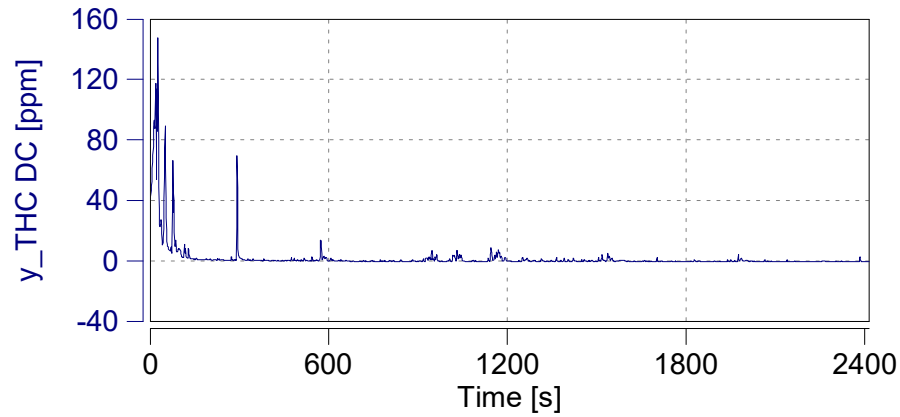
'Highway'

Start Date: 07/29/2019

Start Time: 12:44:58.0

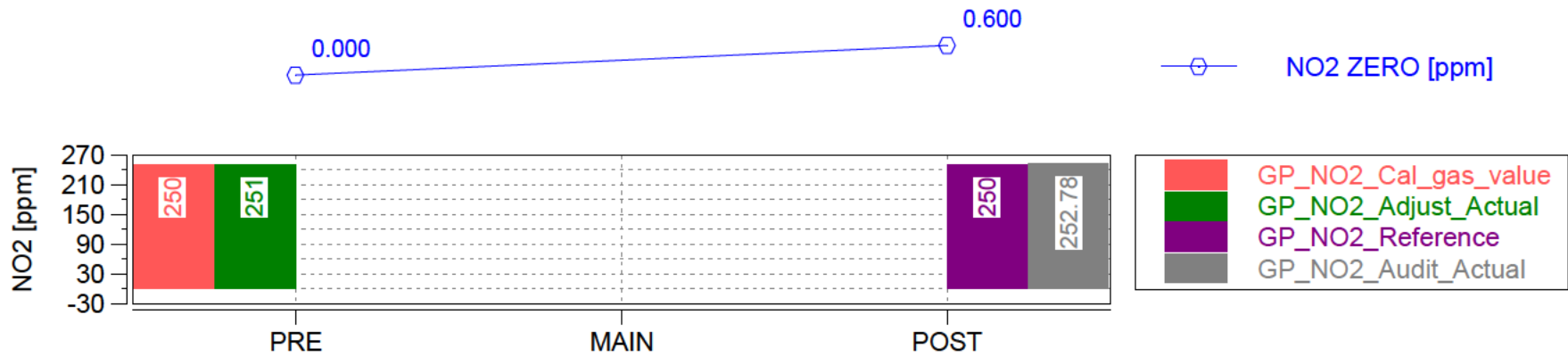
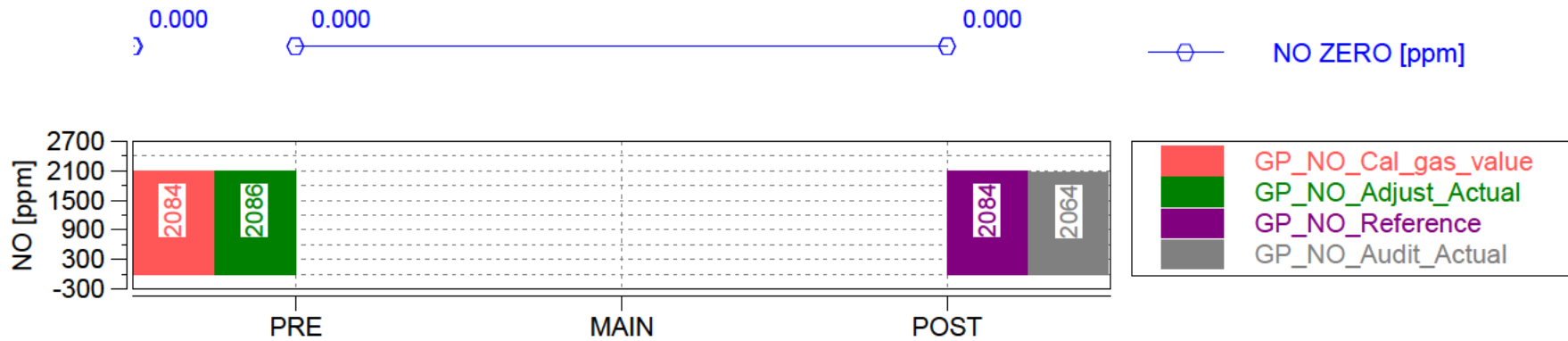


Concerto M.O.V.E., 2018



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

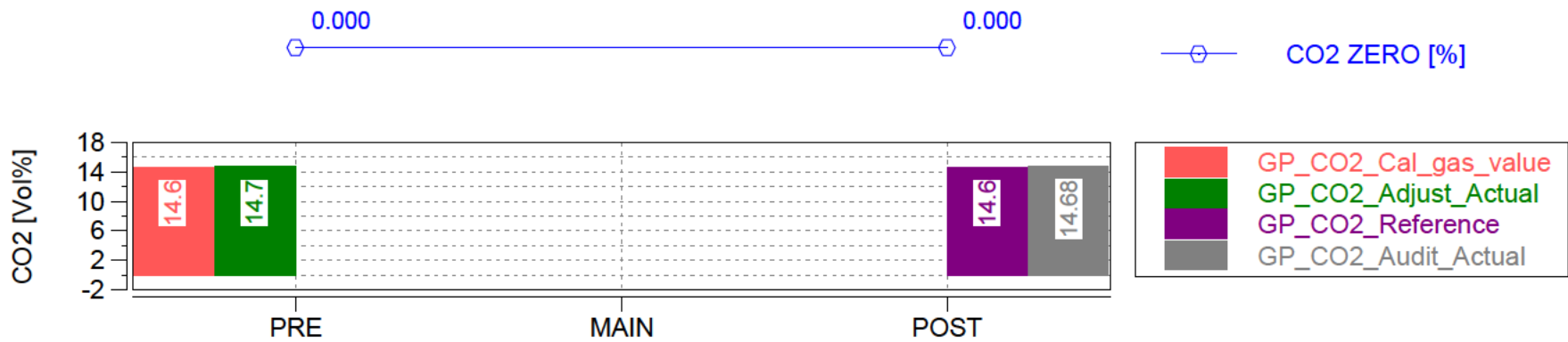
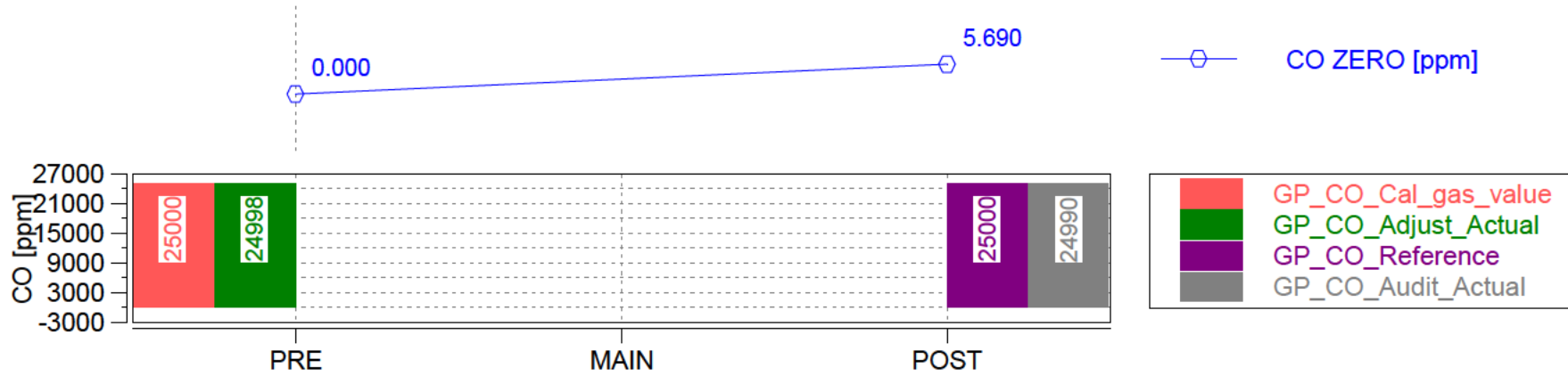
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Vehicle: Jetta / 1.4L

Engine: /

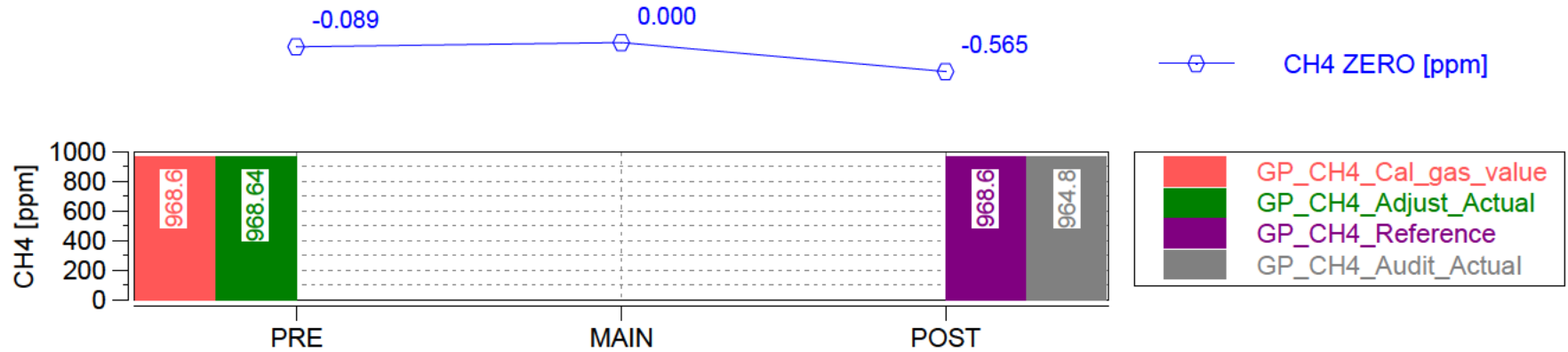
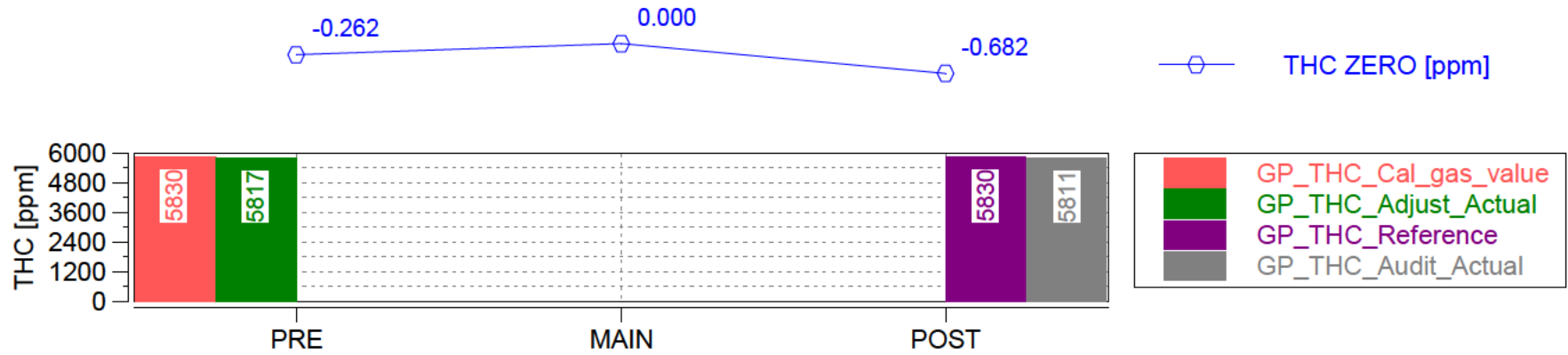
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



Concerto Version: 480 Build 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

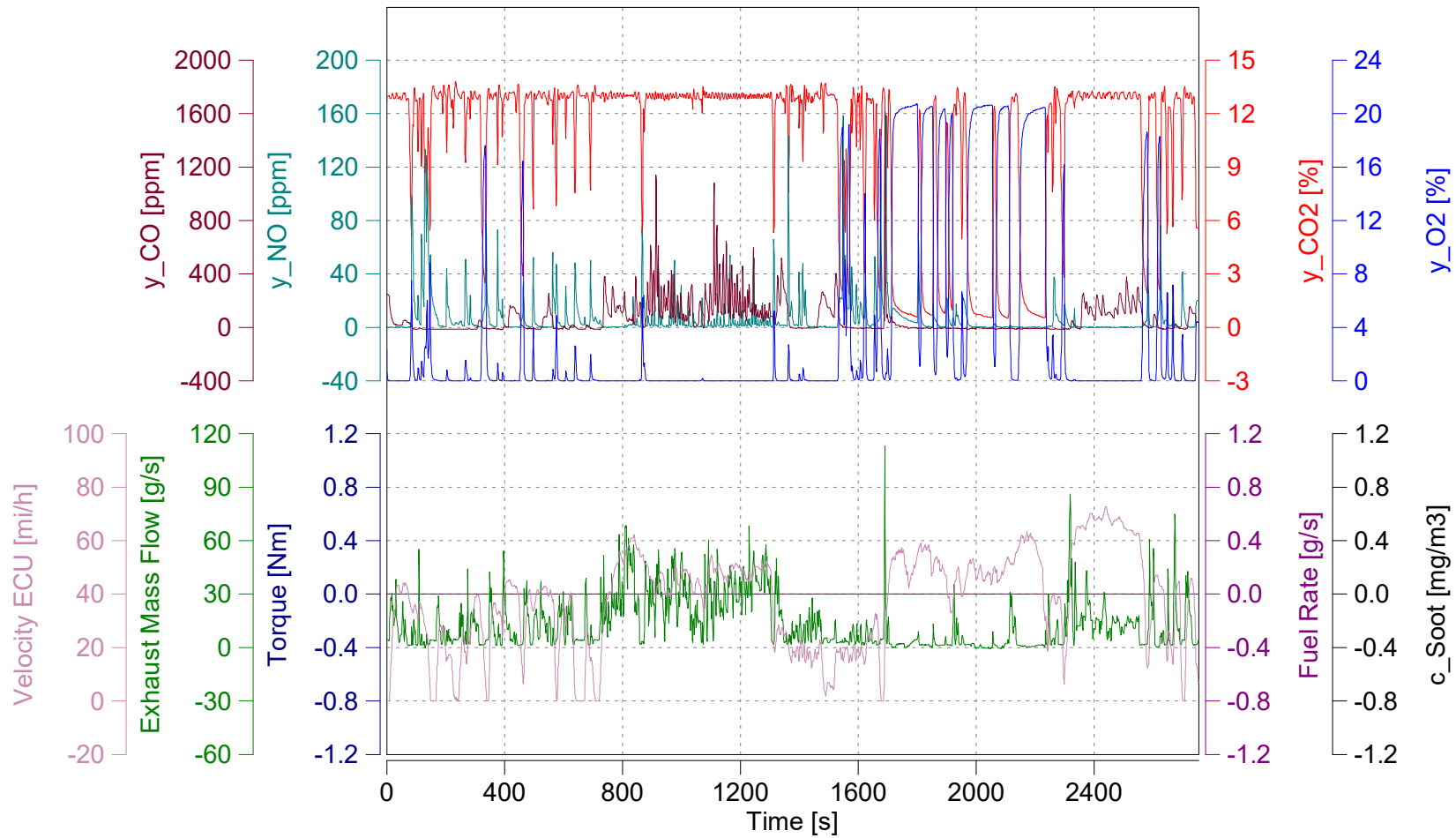
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

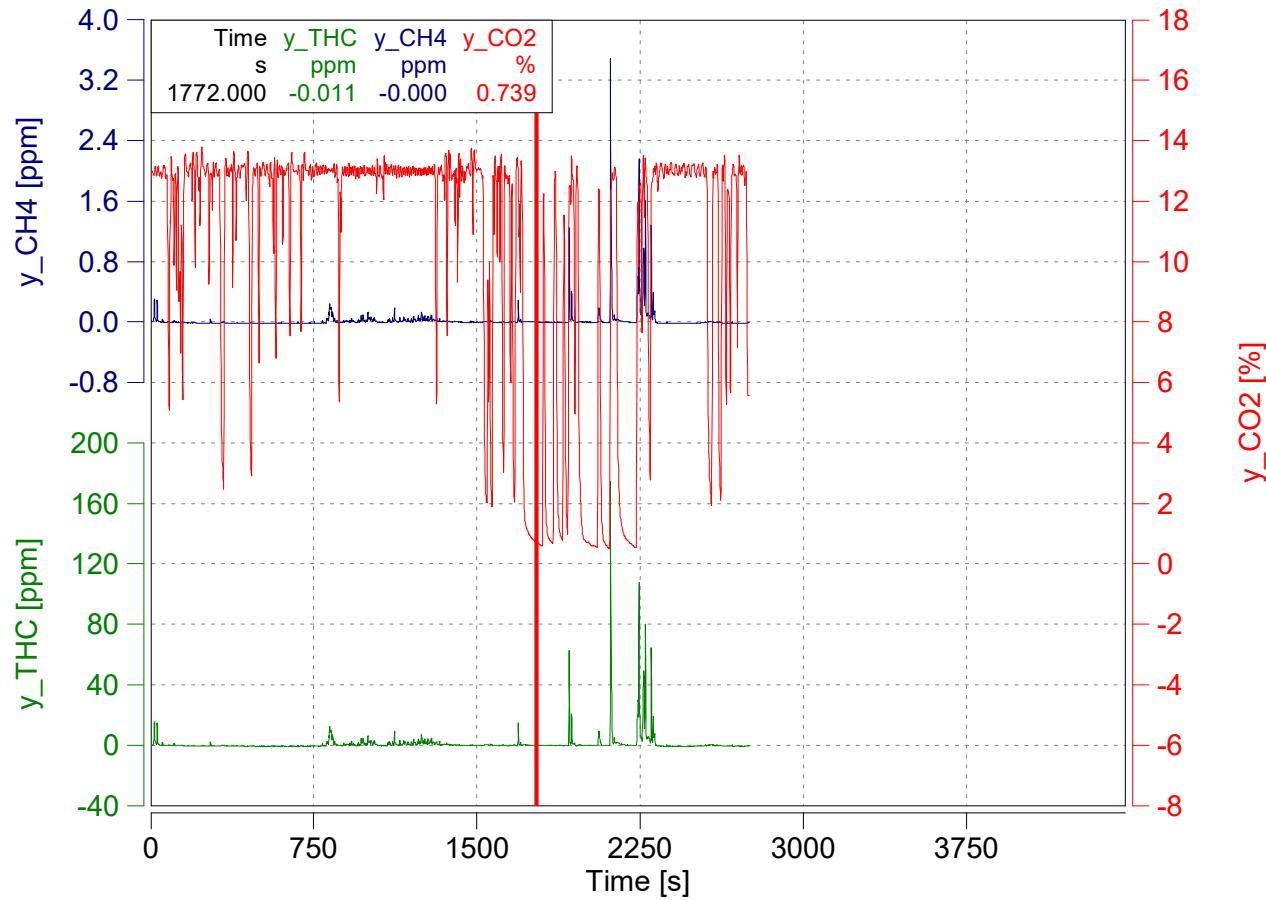
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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

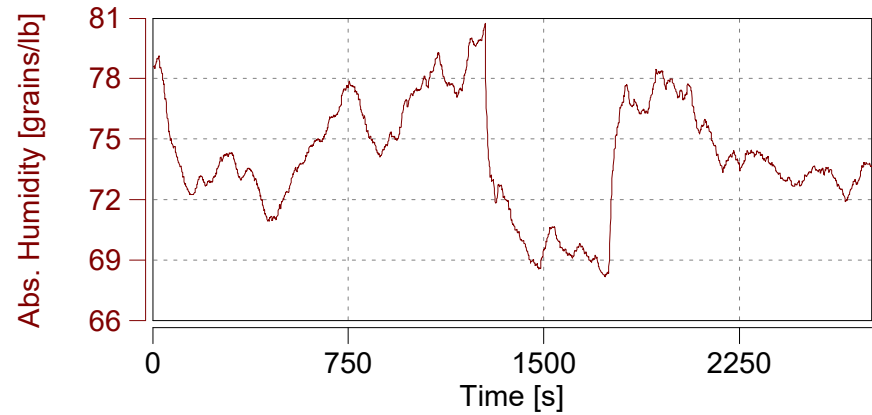
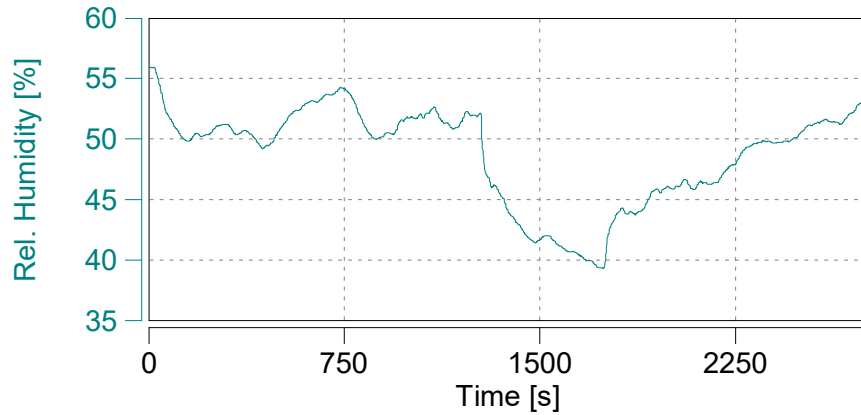
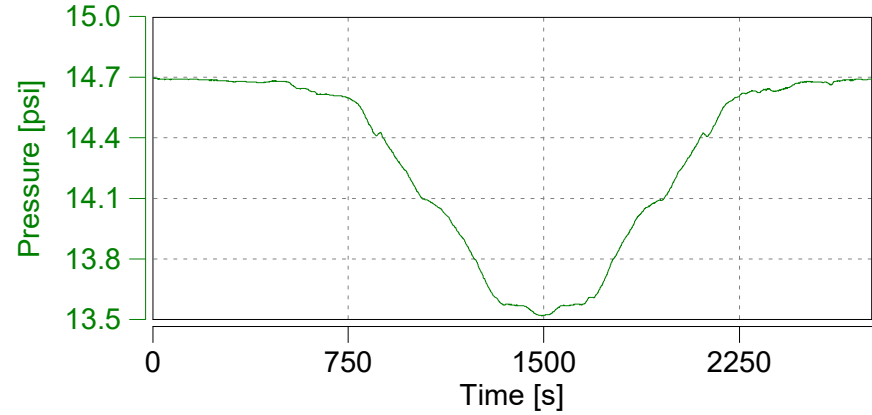
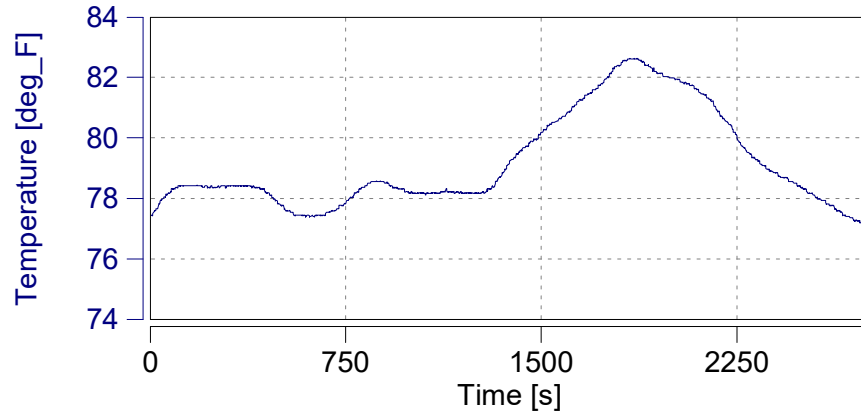


Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

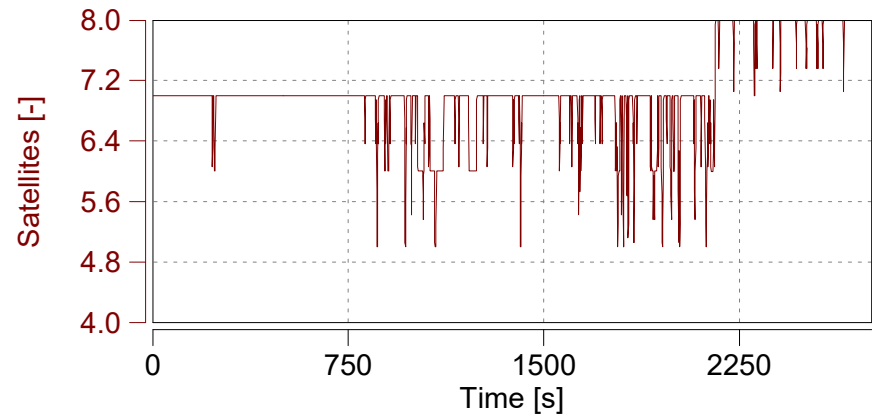
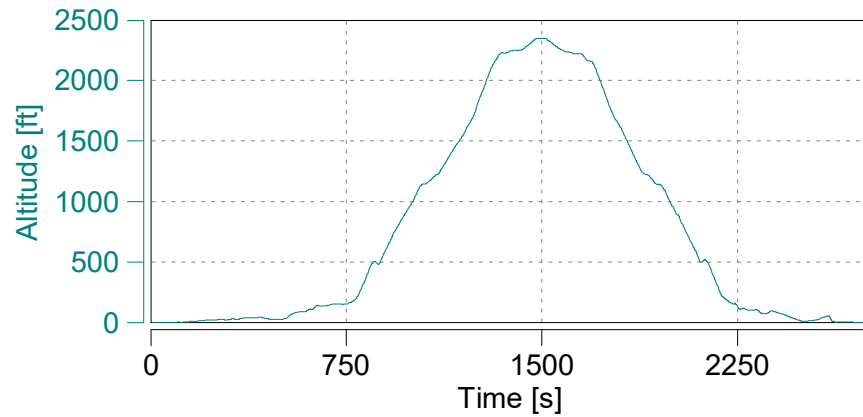
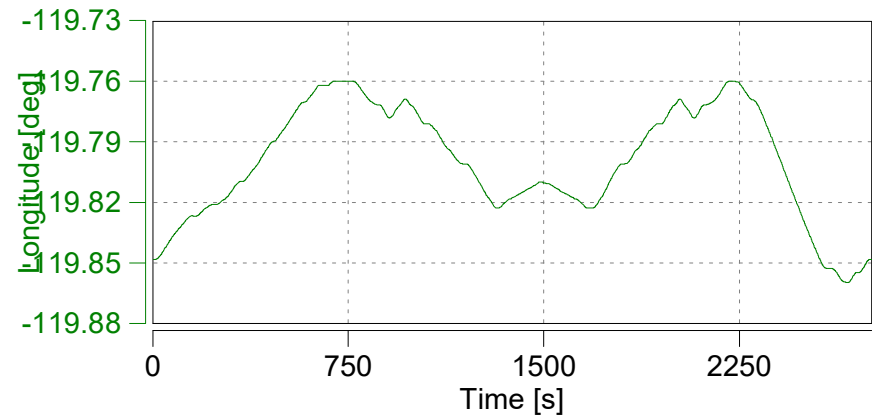
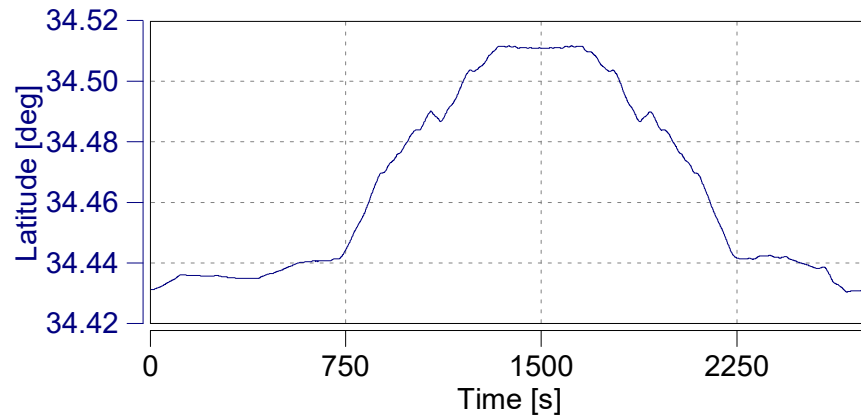
Reset Time Shifts in Plot

Apply Current Values



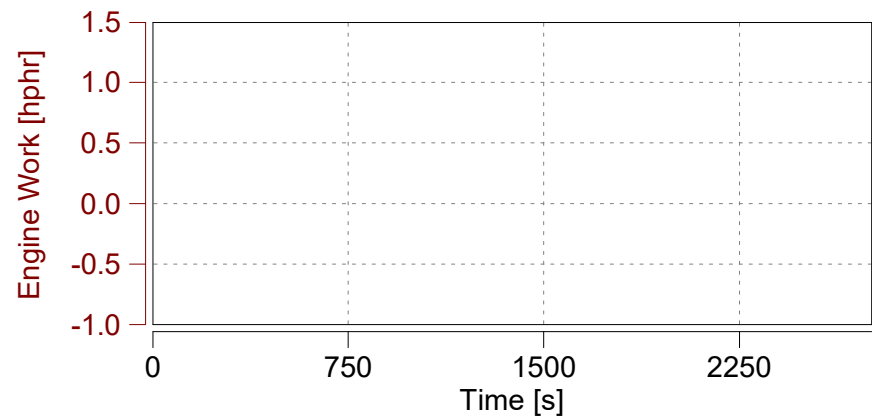
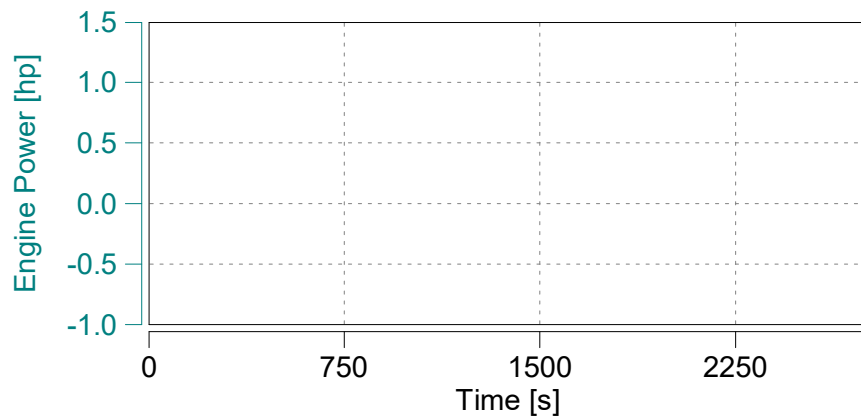
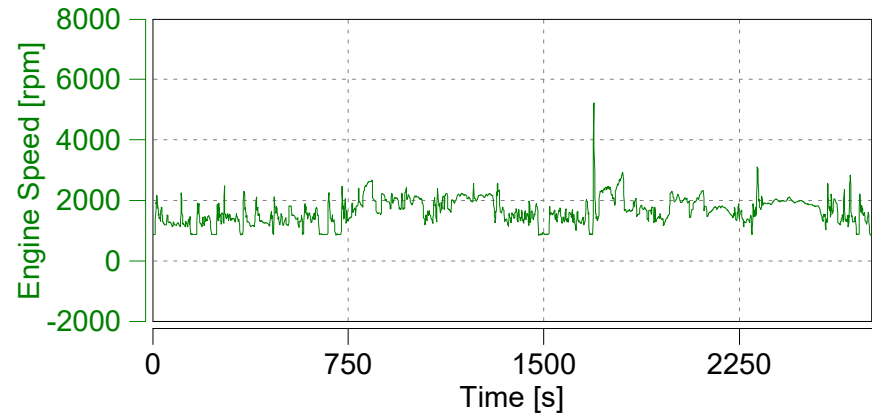
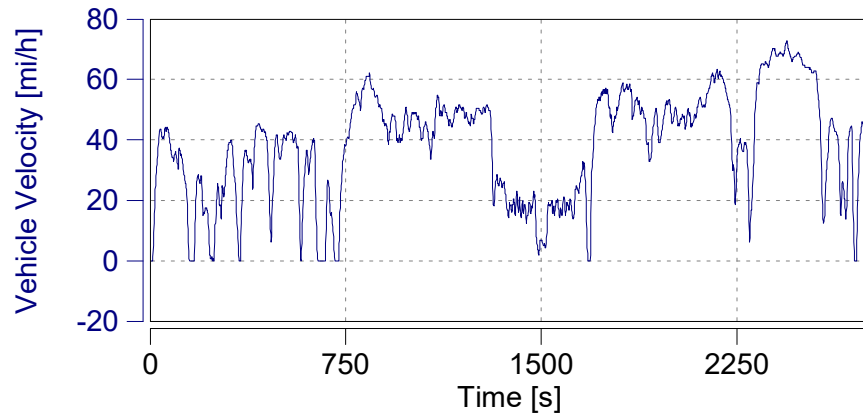
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



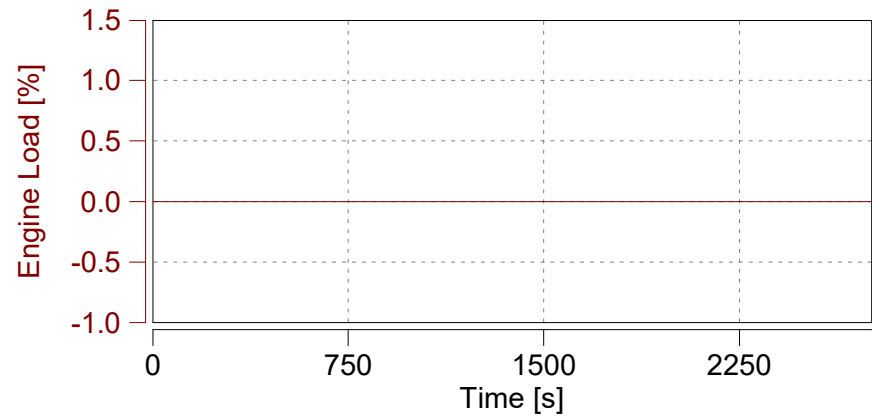
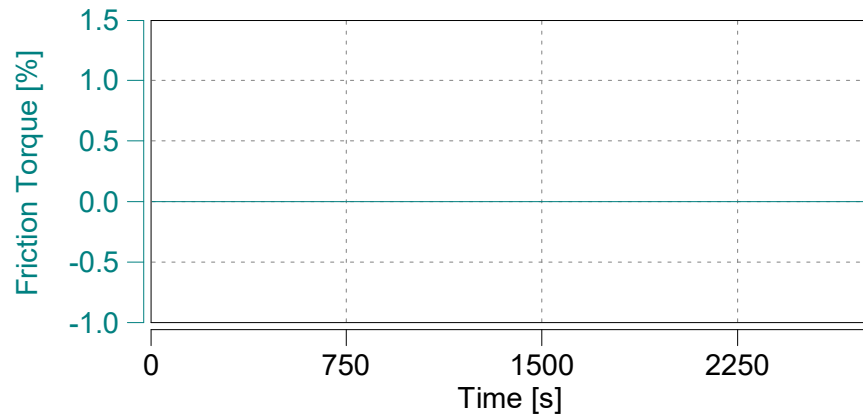
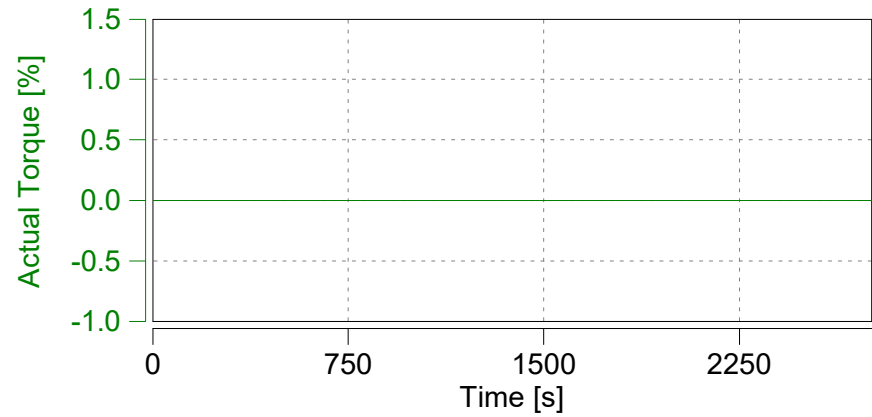
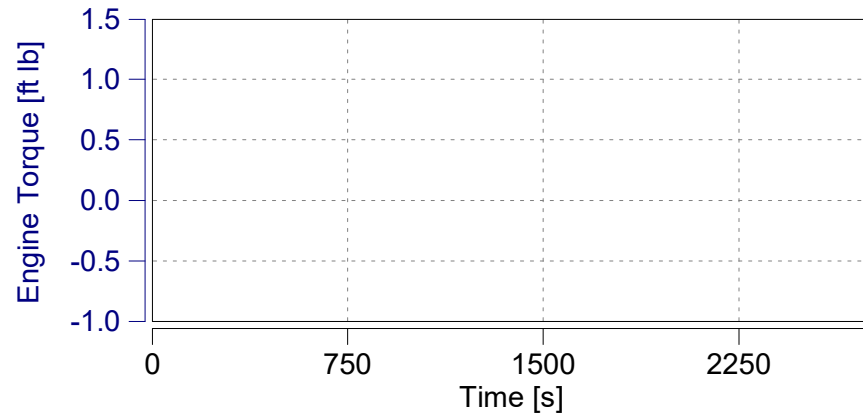
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



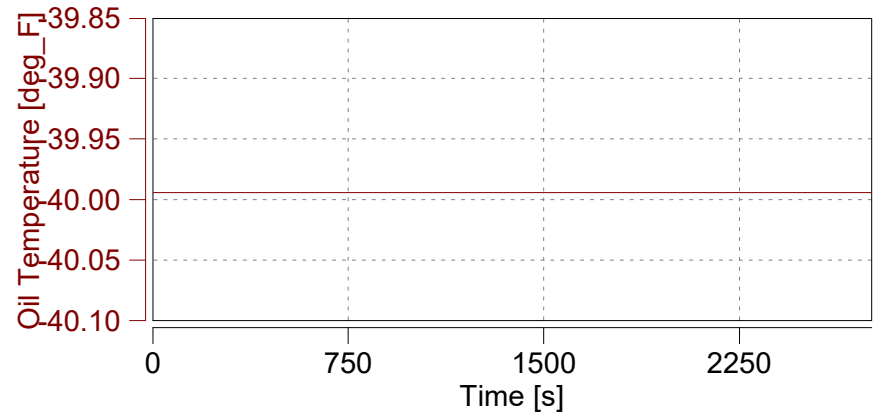
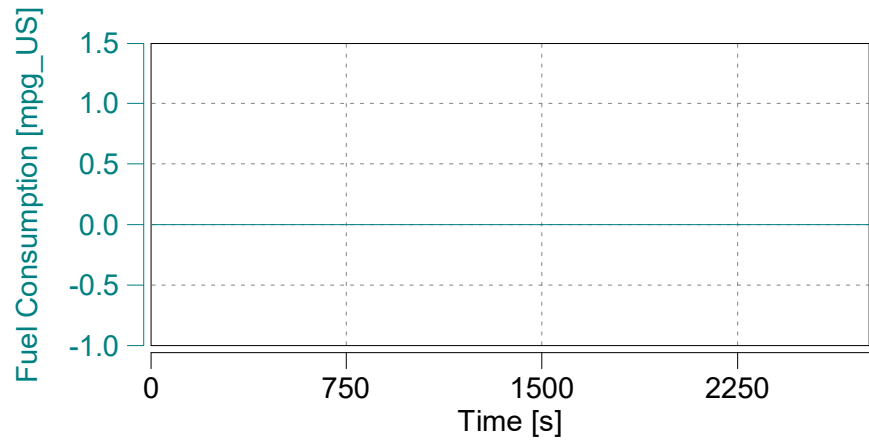
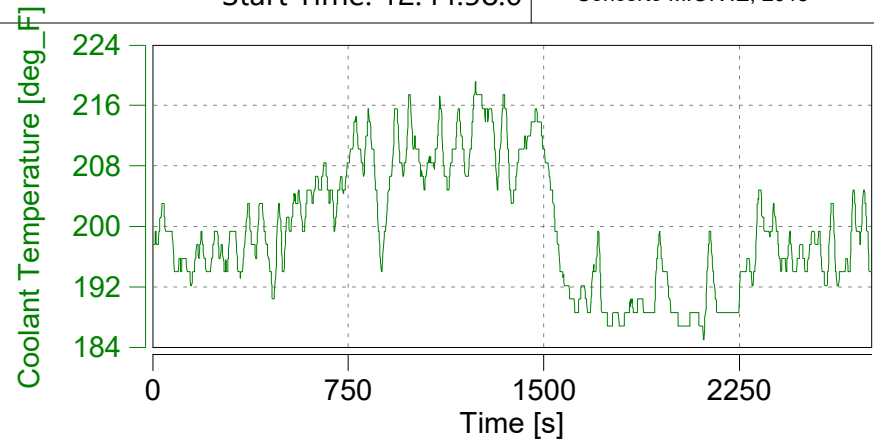
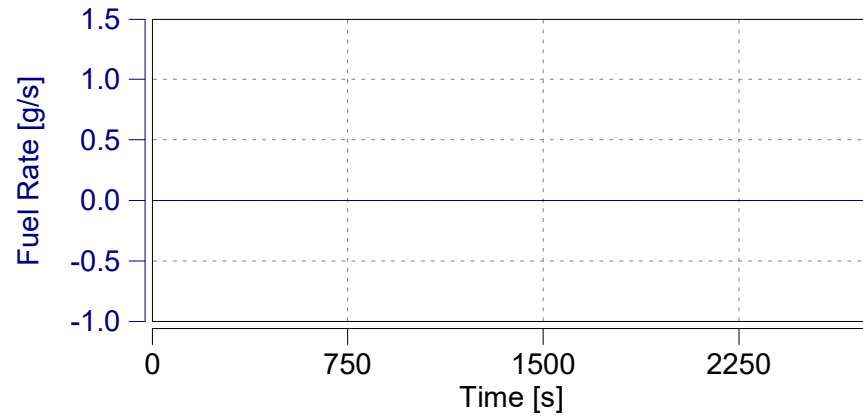
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



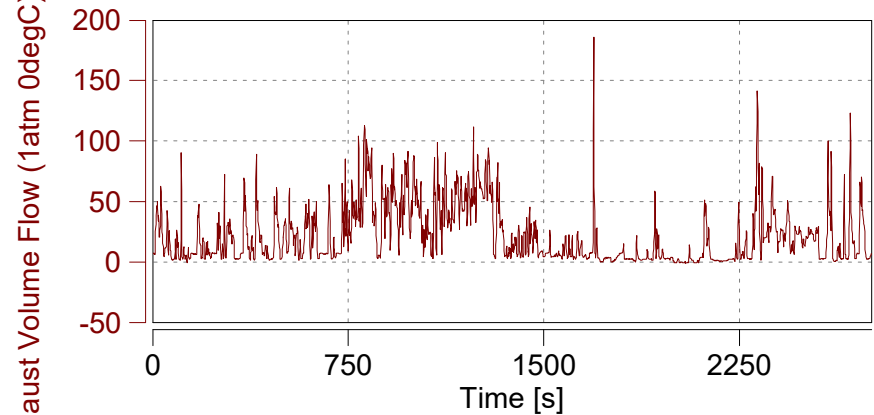
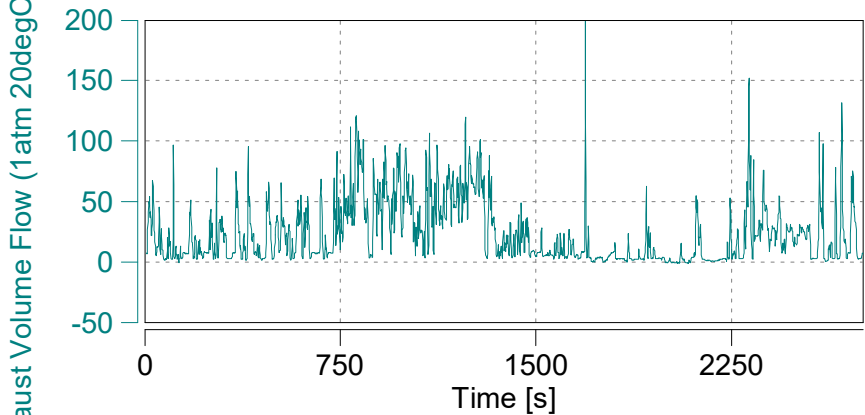
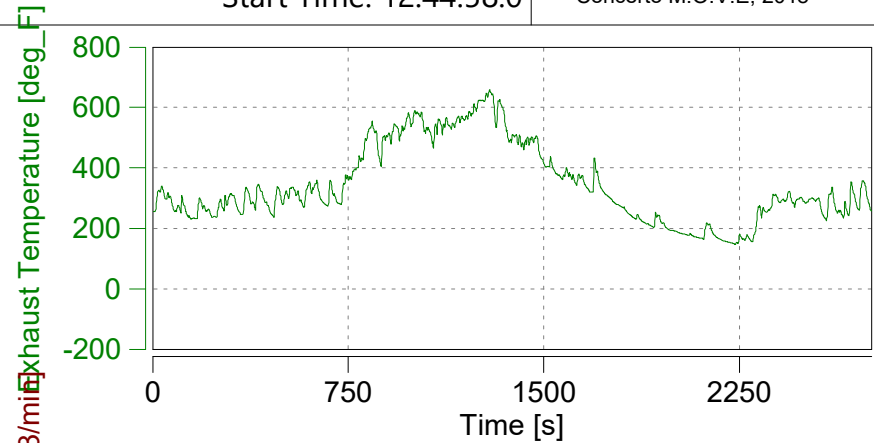
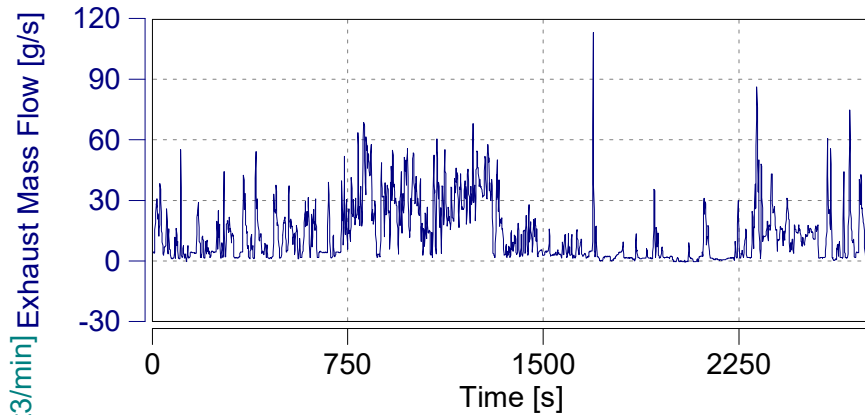
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



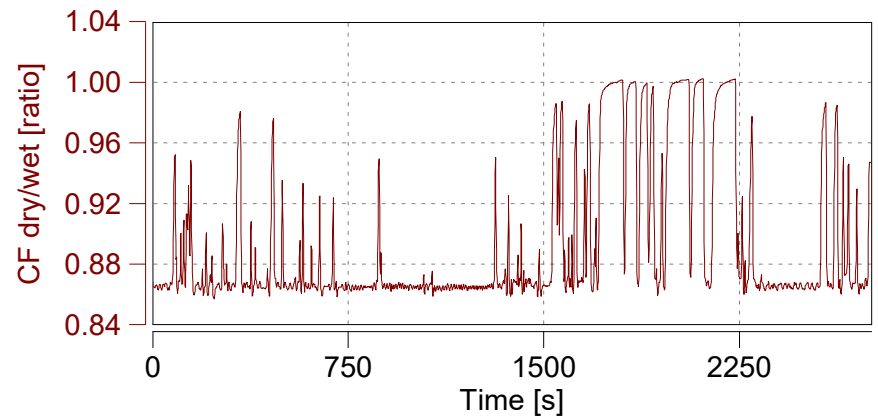
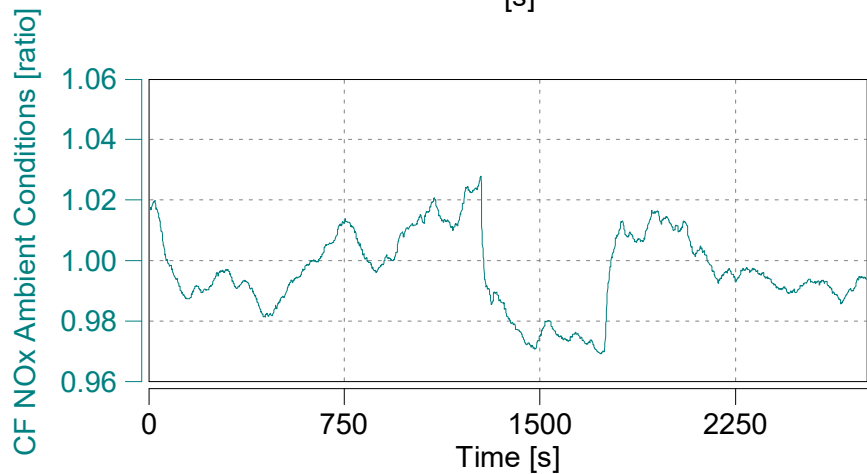
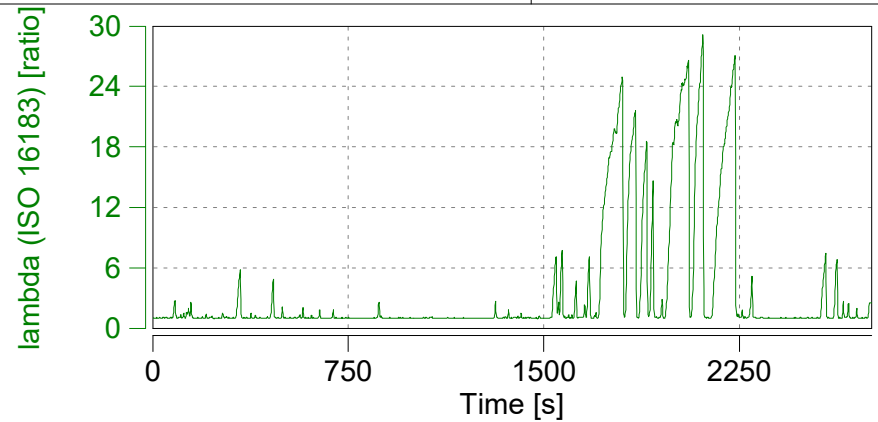
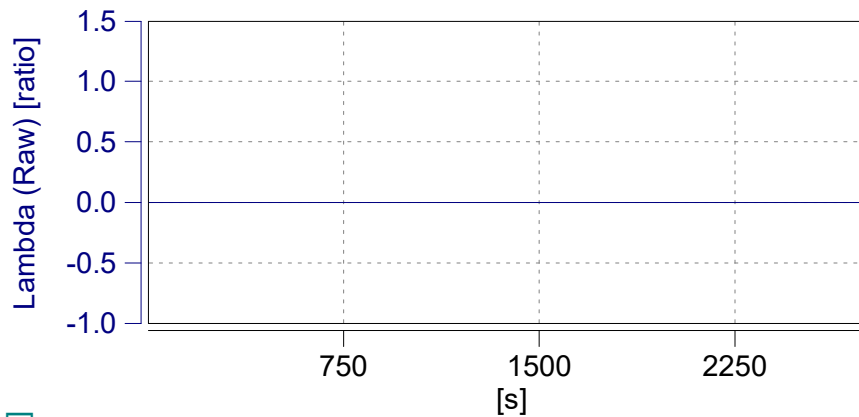
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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 (1)

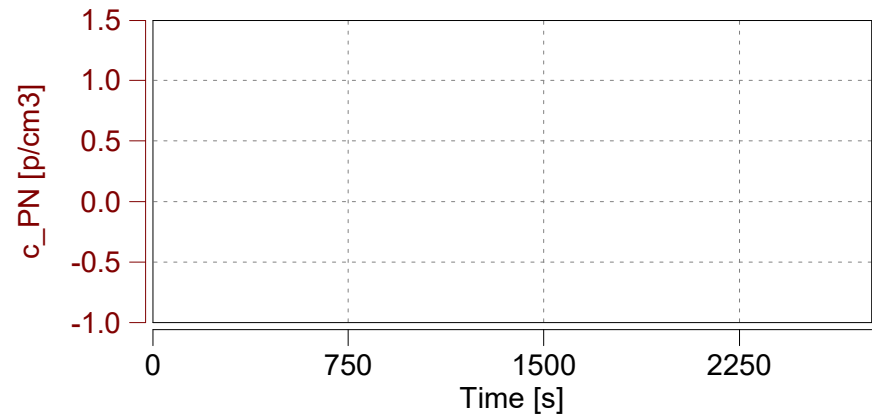
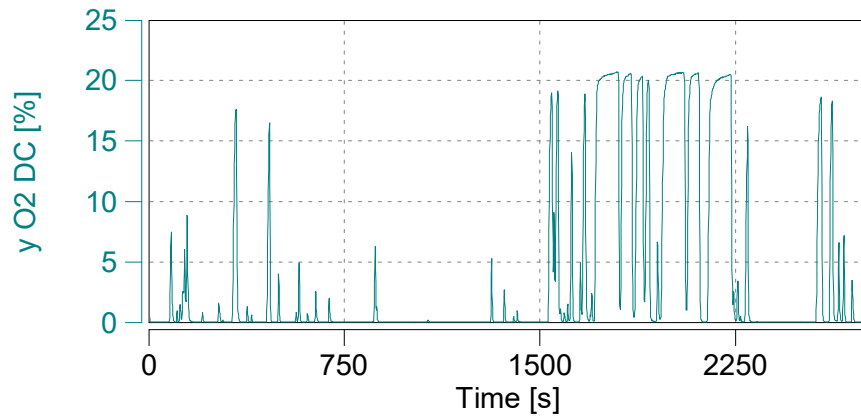
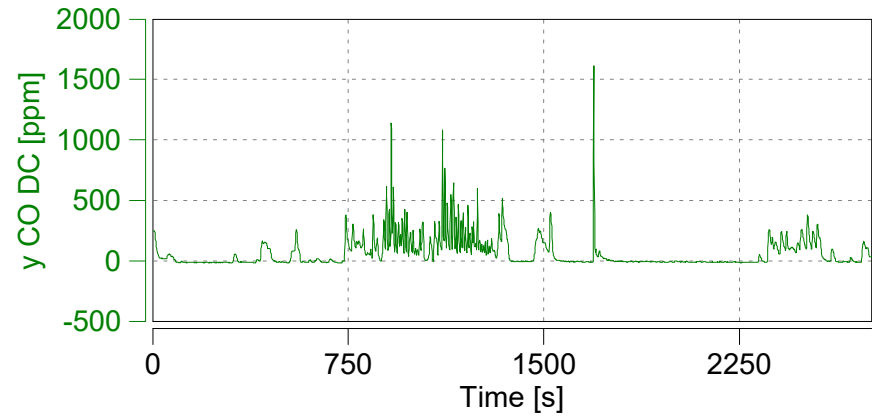
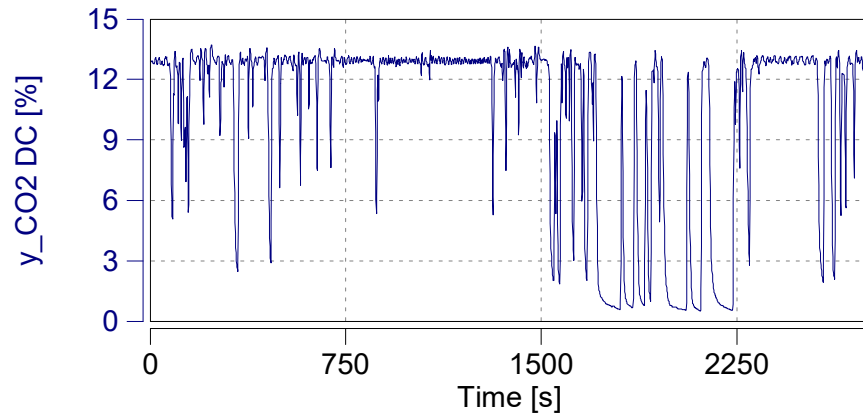
'Mountain'

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

Case: Mountain

Page: Corrected Emissions (2)

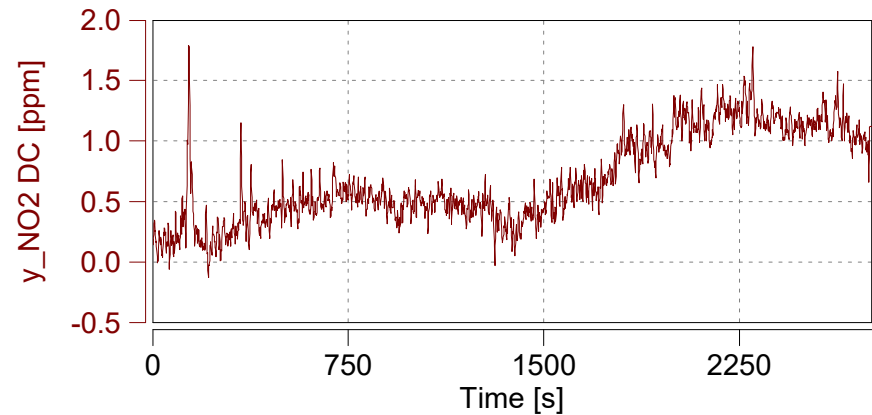
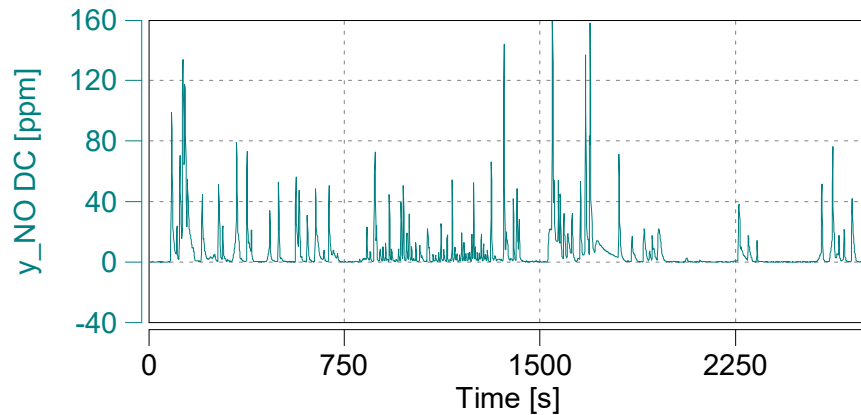
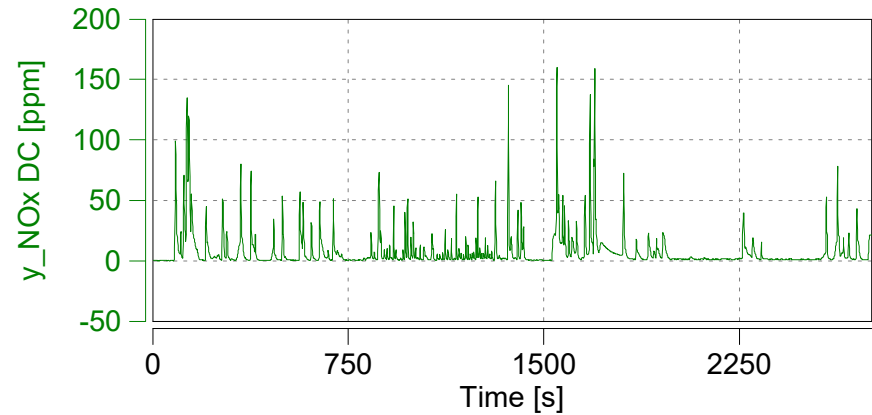
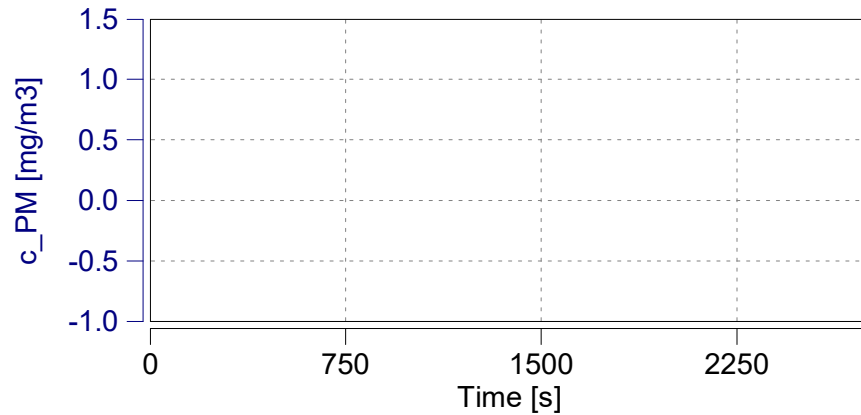
'Mountain'

Start Date: 07/29/2019

Start Time: 12:44:58.0

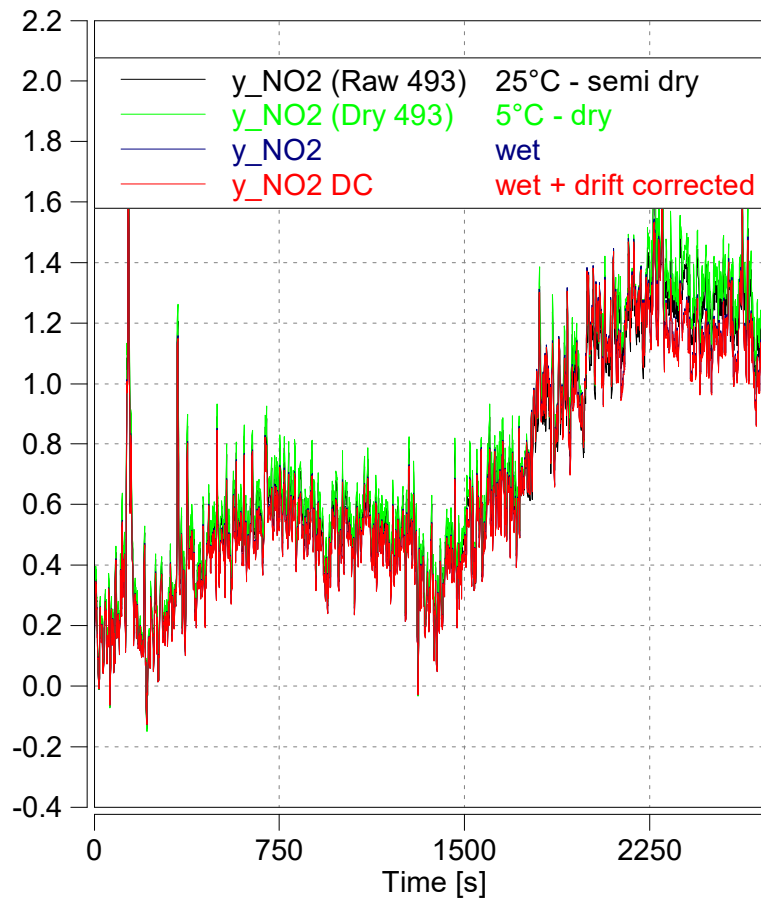
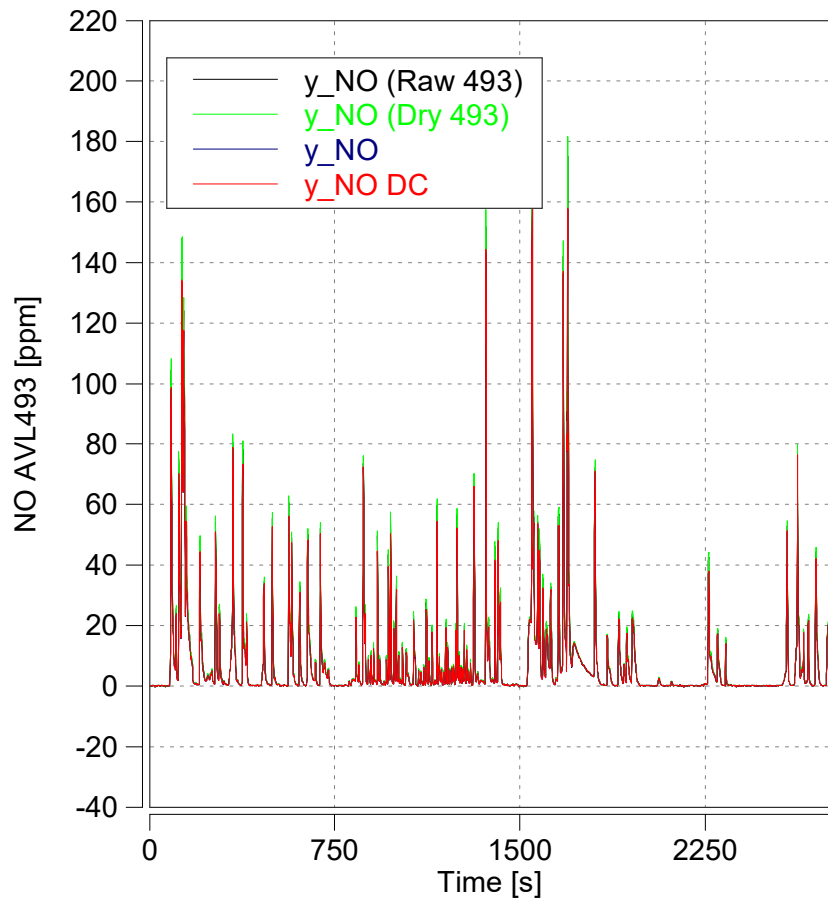


Concerto M.O.V.E., 2018



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

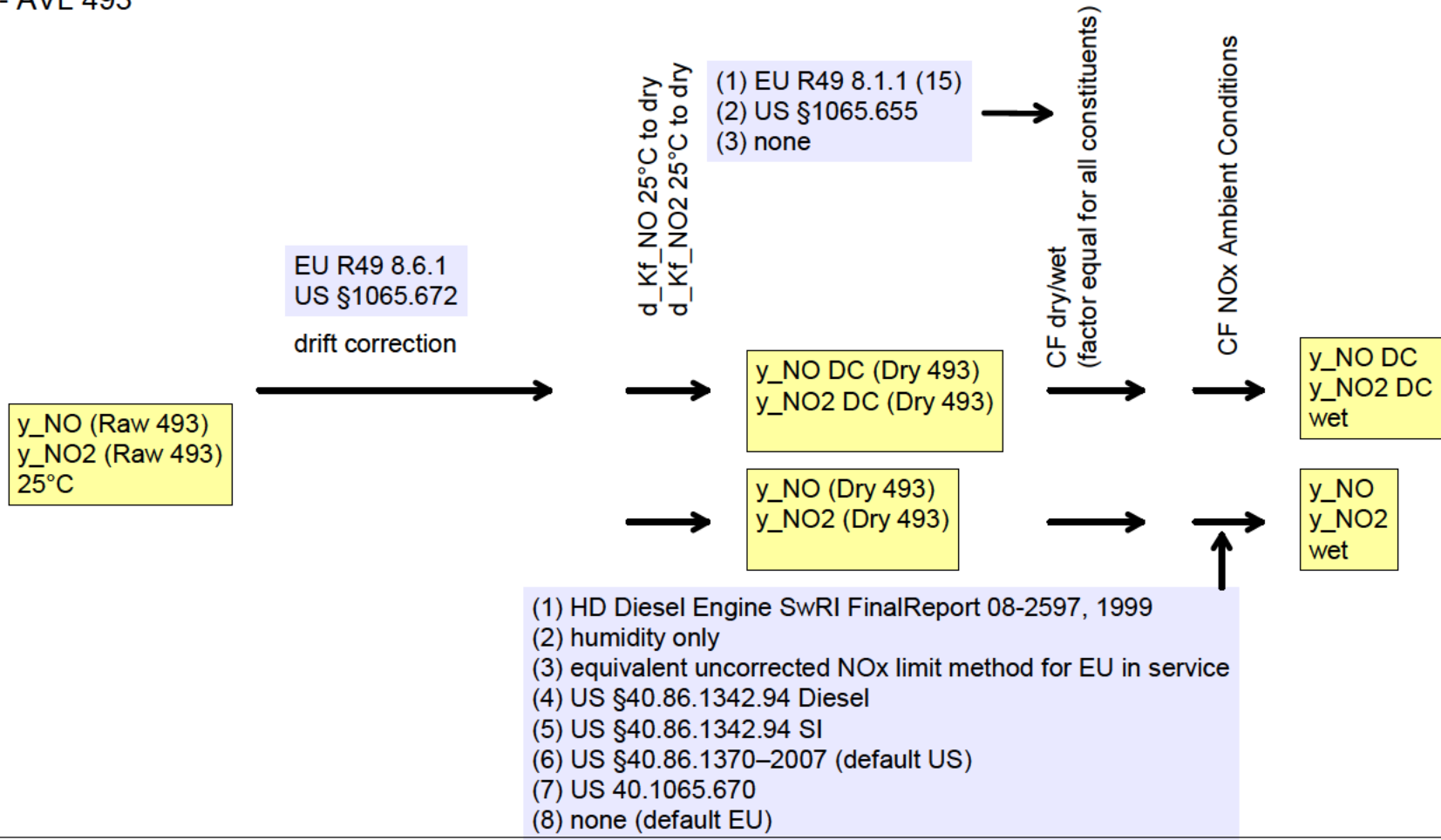


Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



Concerto Version: 480 Build 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 (5)

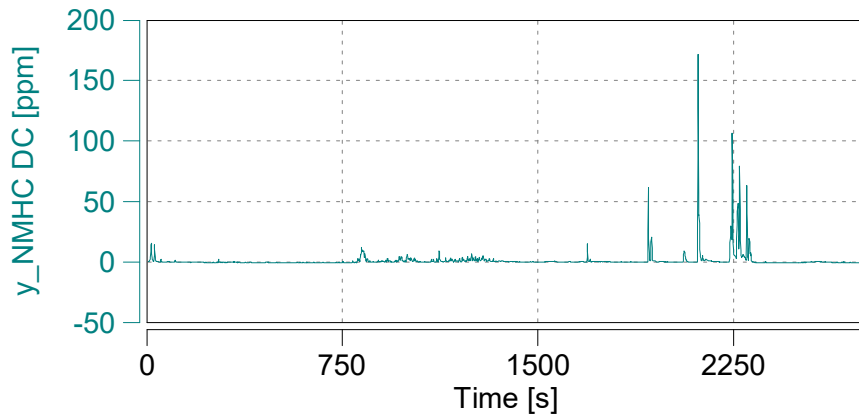
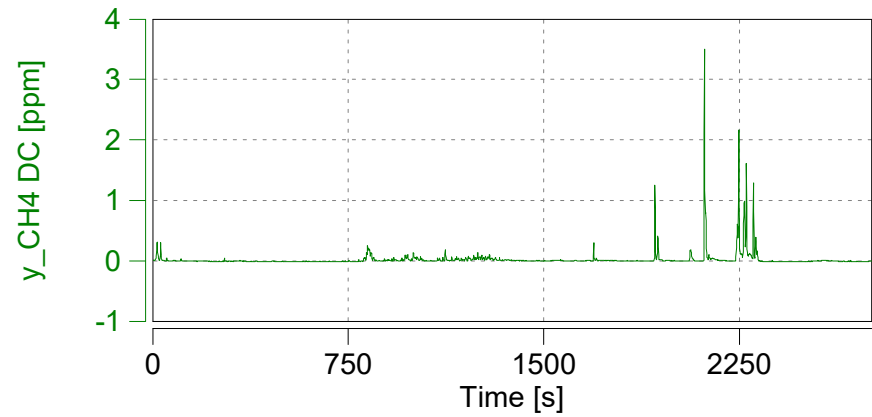
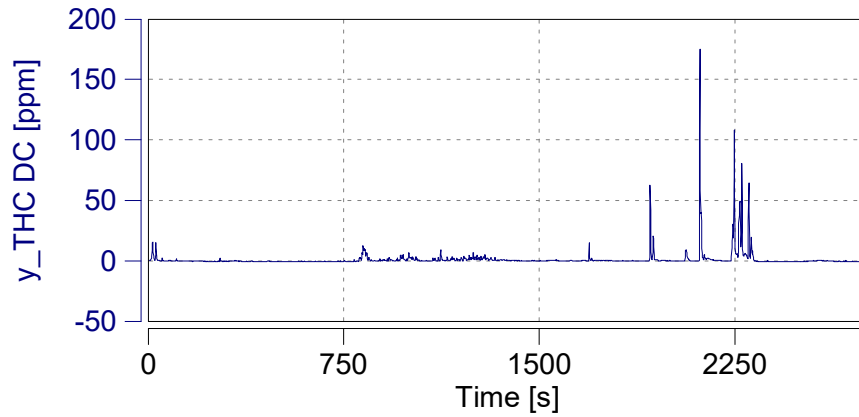
'Mountain'

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

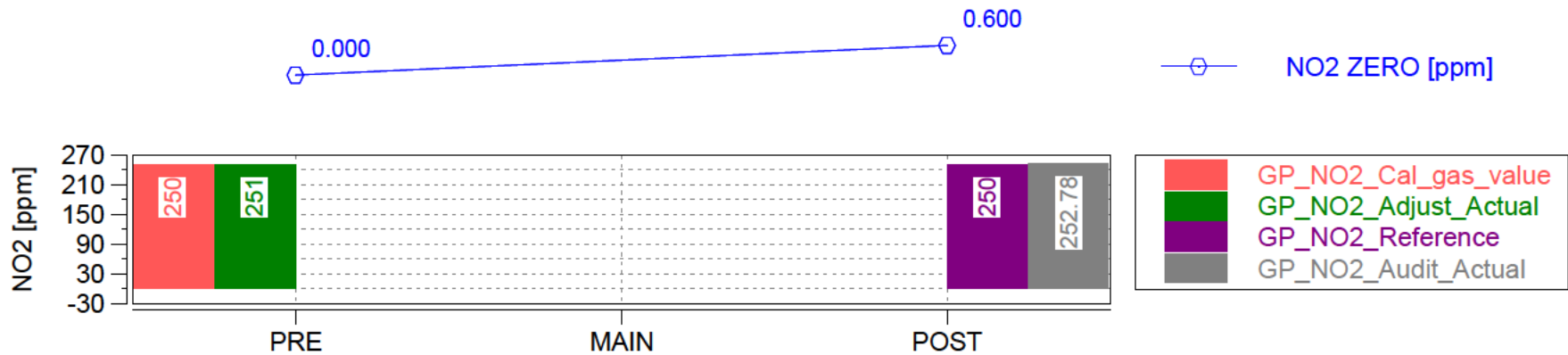
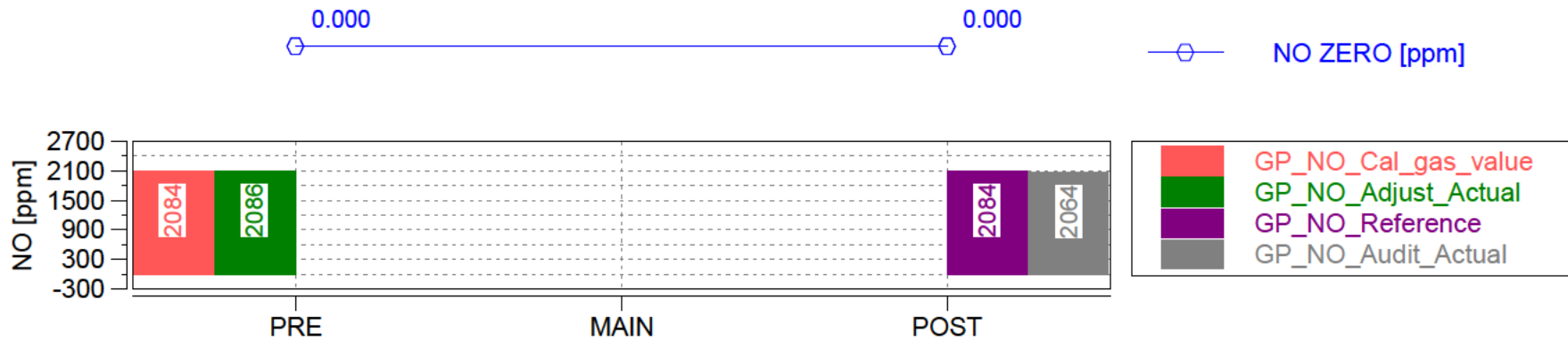
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

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

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



Concerto Version: 480 Build 316, Serial Number: 1120

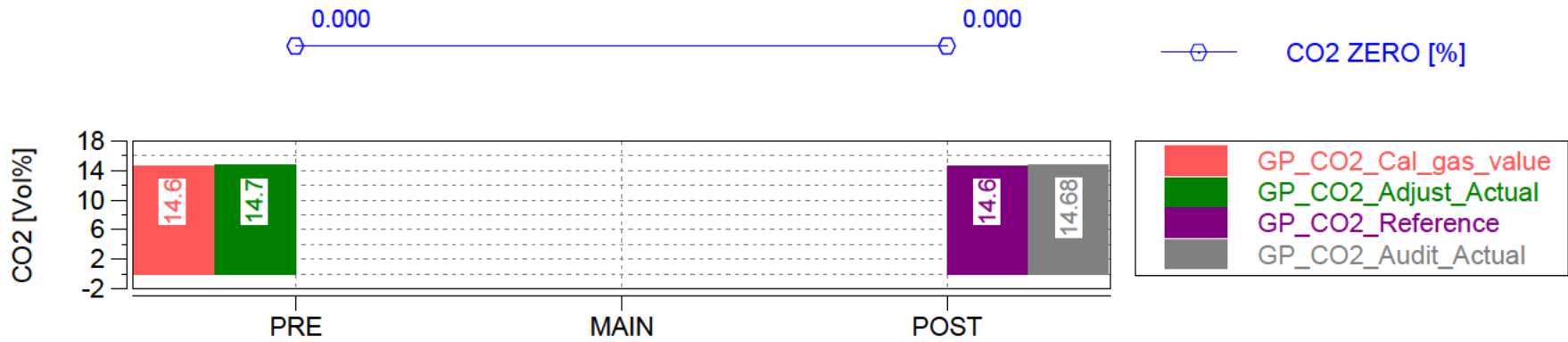
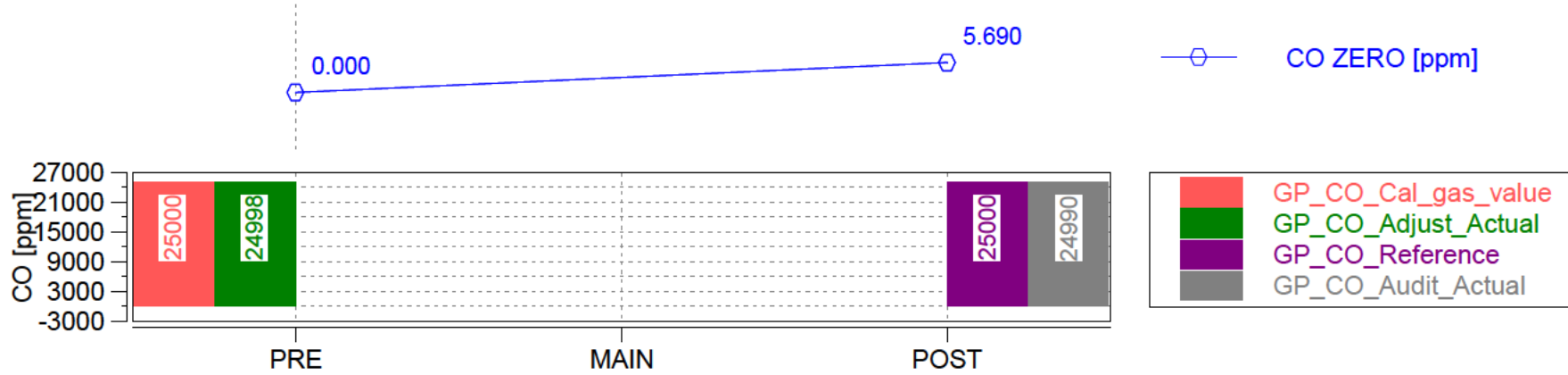
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: Jetta / 1.4 L

Engine: /

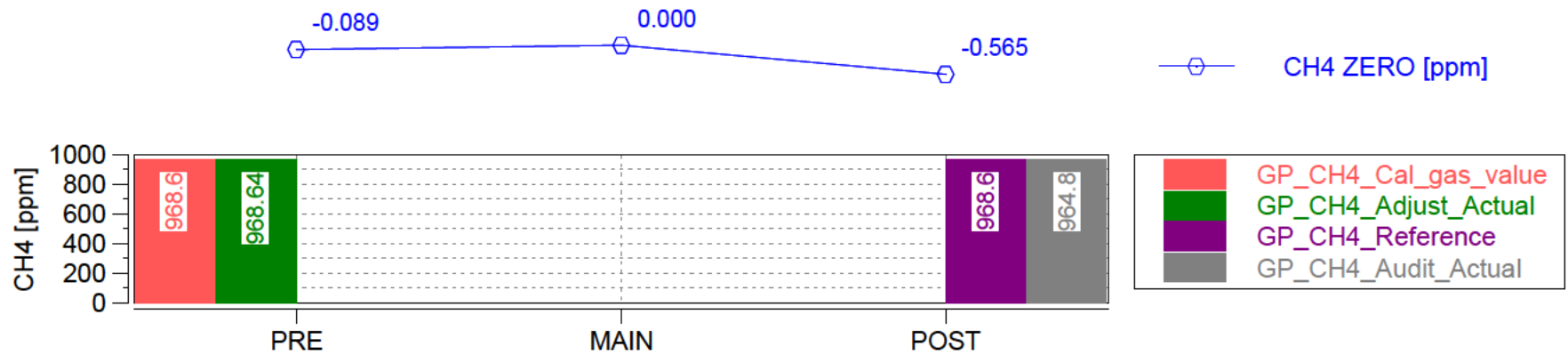
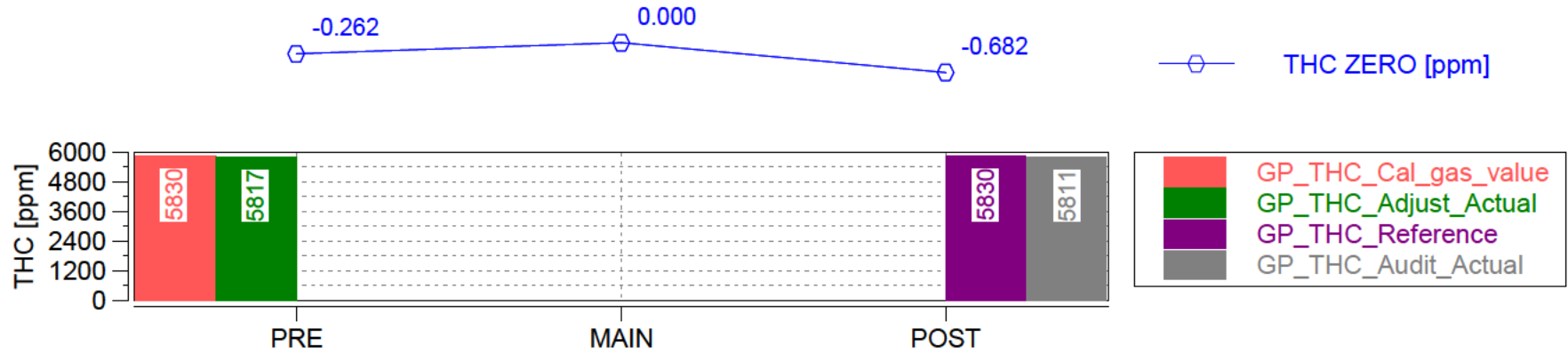
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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: 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_

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: Time Alignment Check

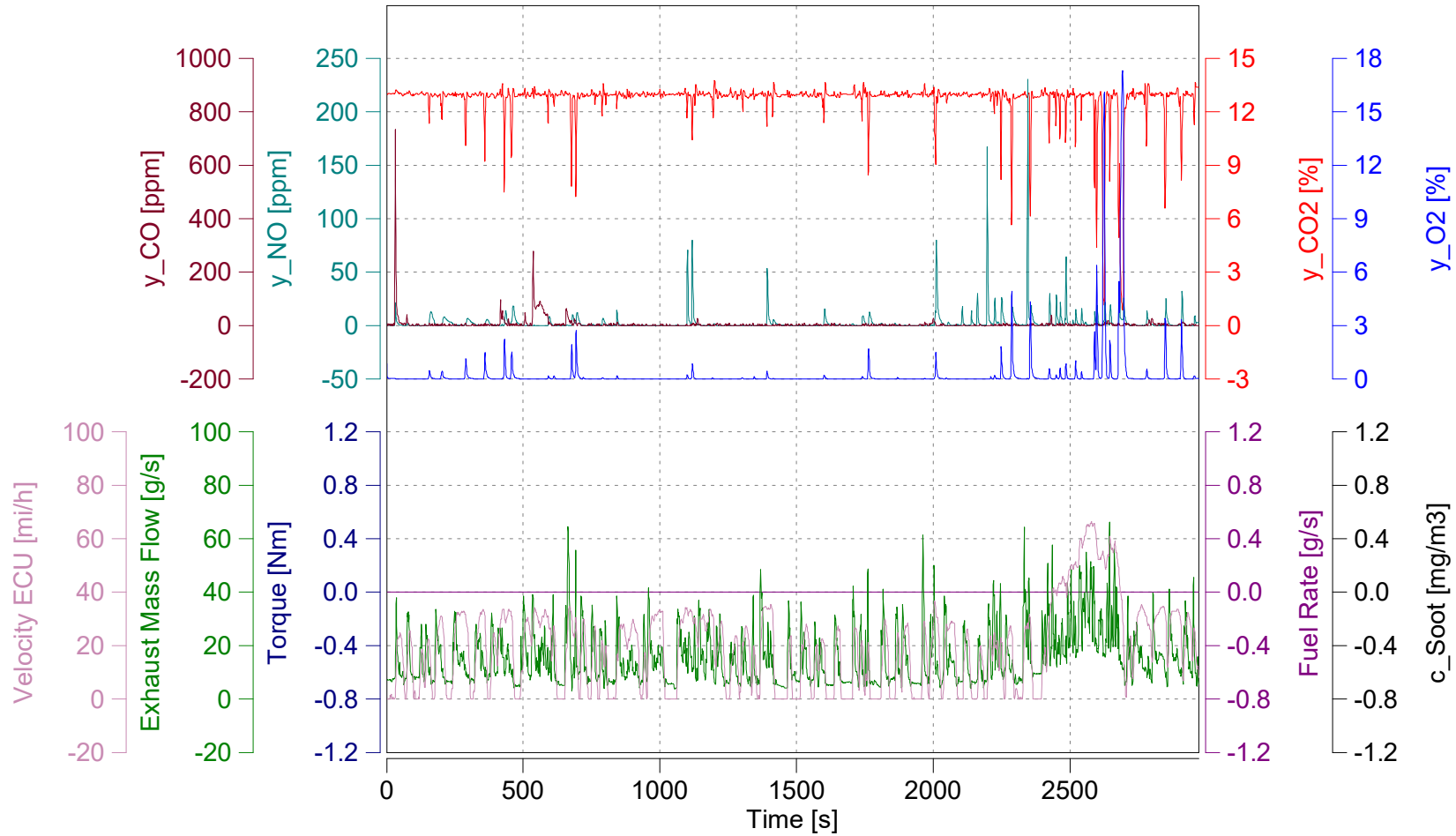
'City'

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

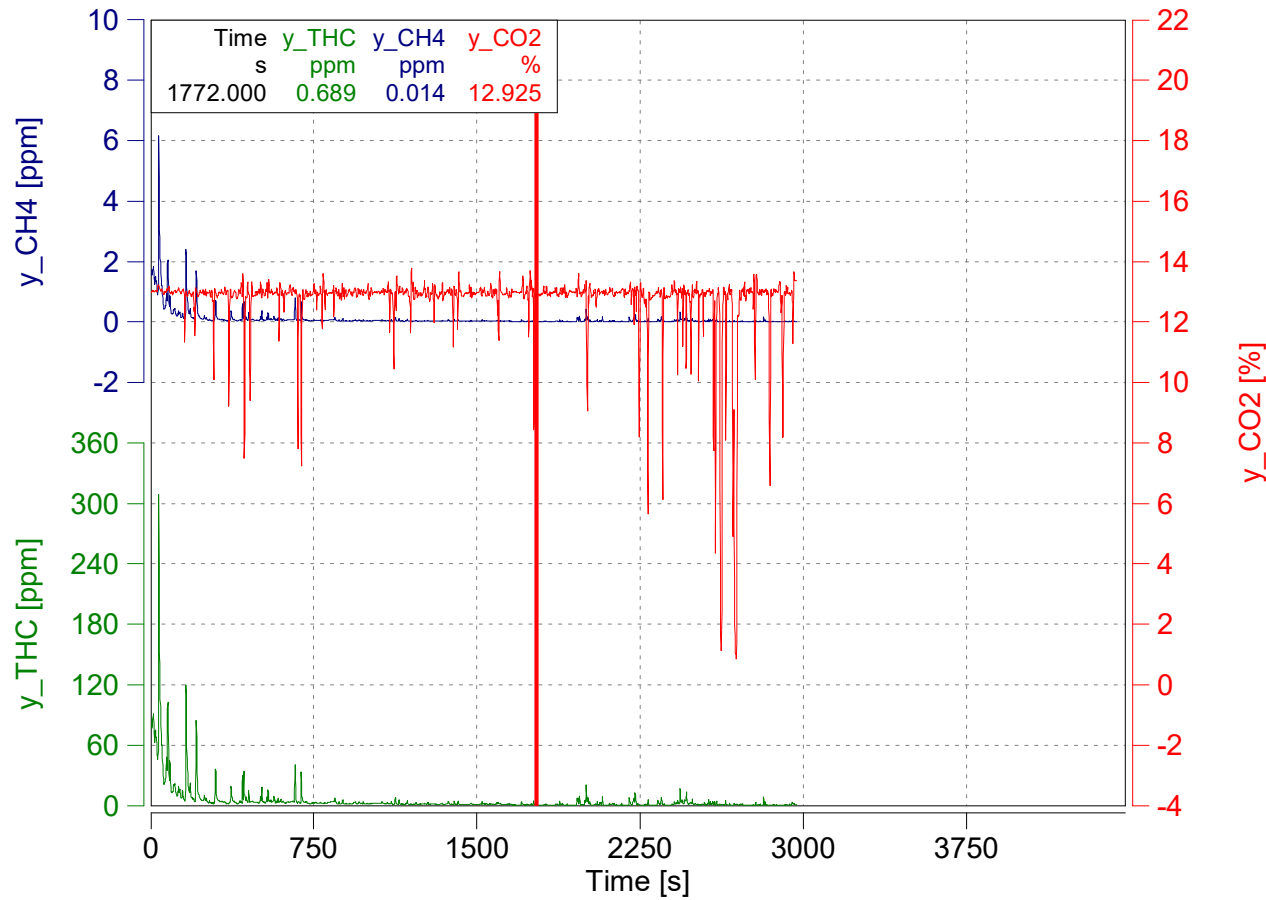
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Vehicle: R8 / 5.2 L

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

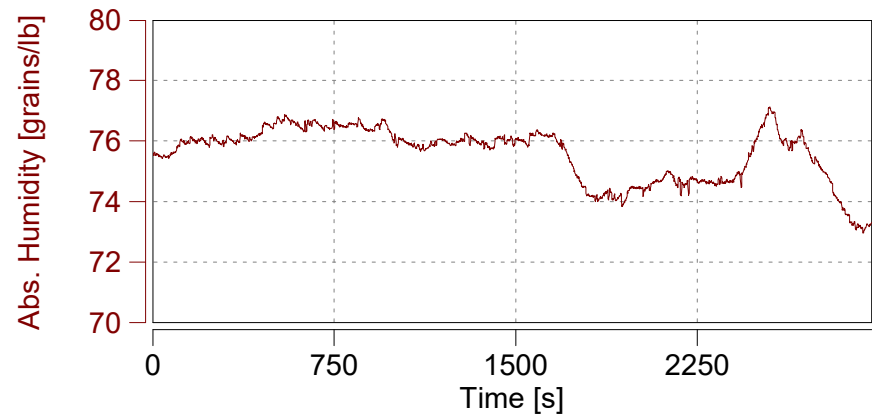
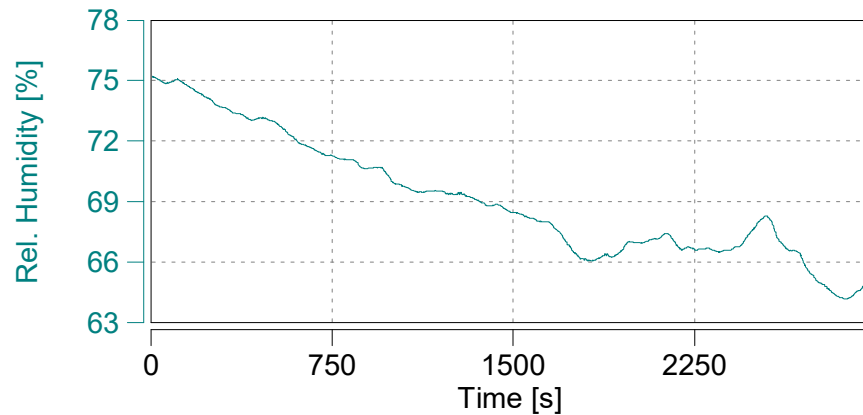
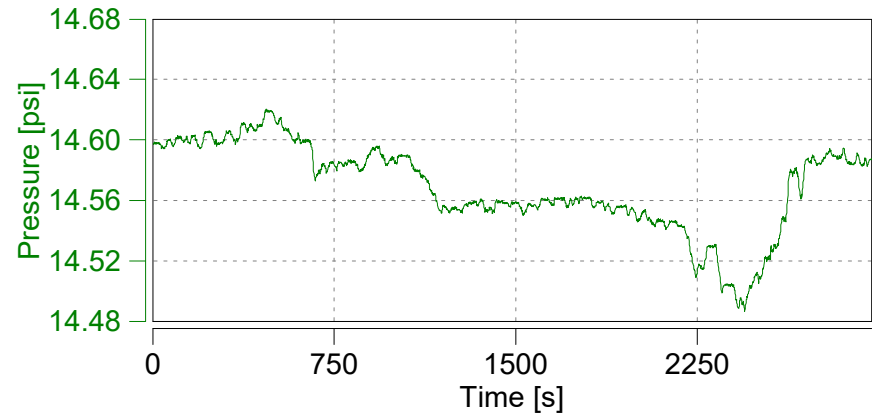
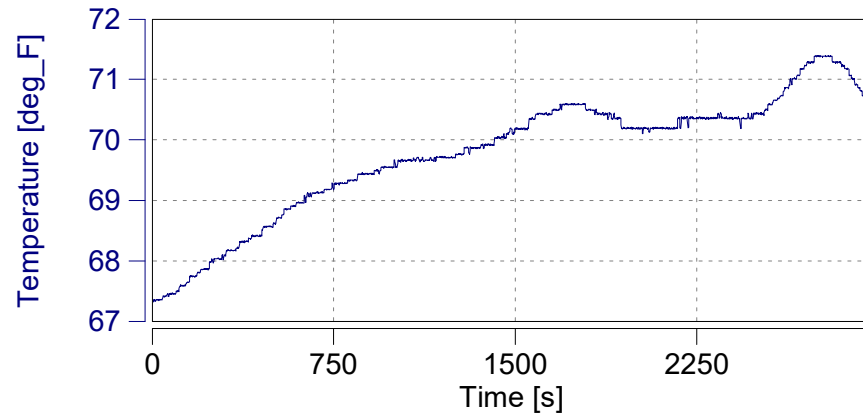
'City'

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

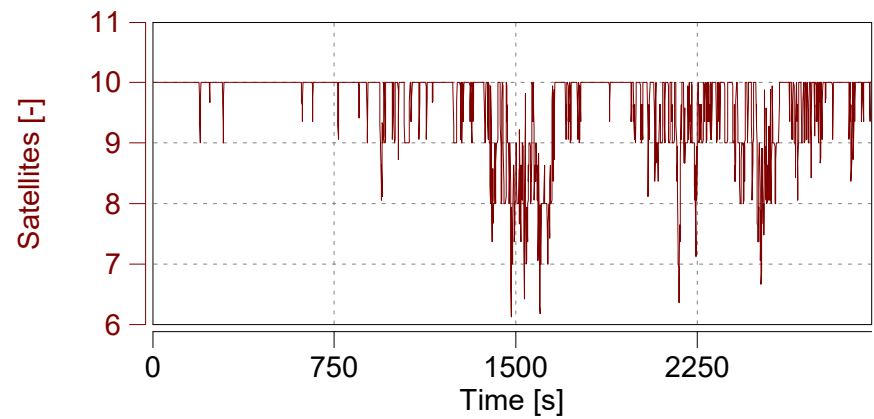
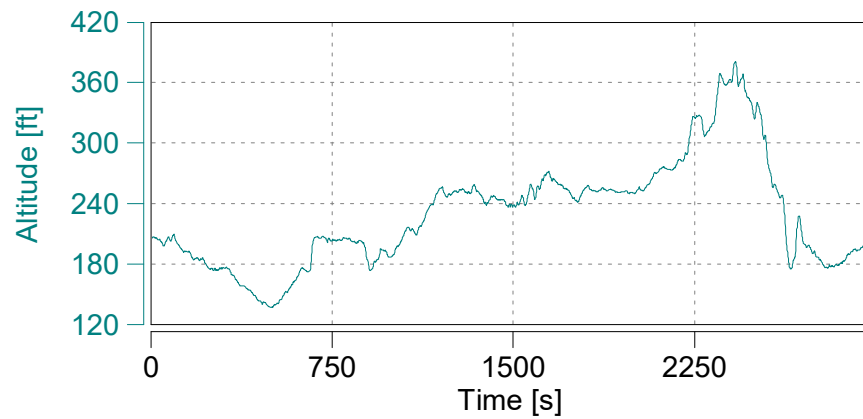
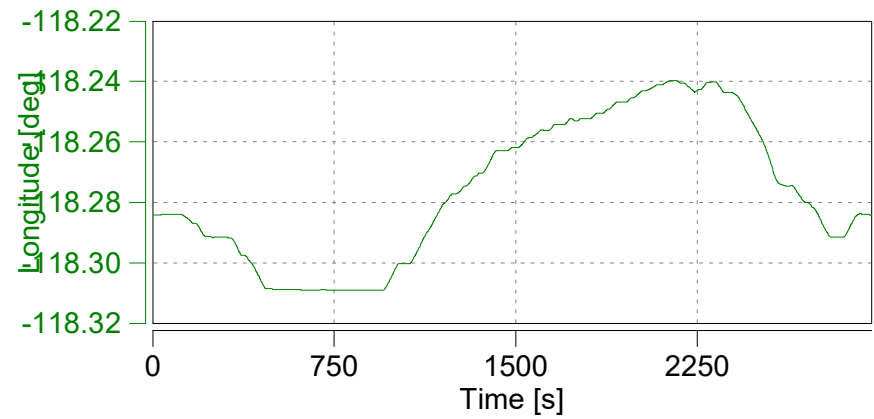
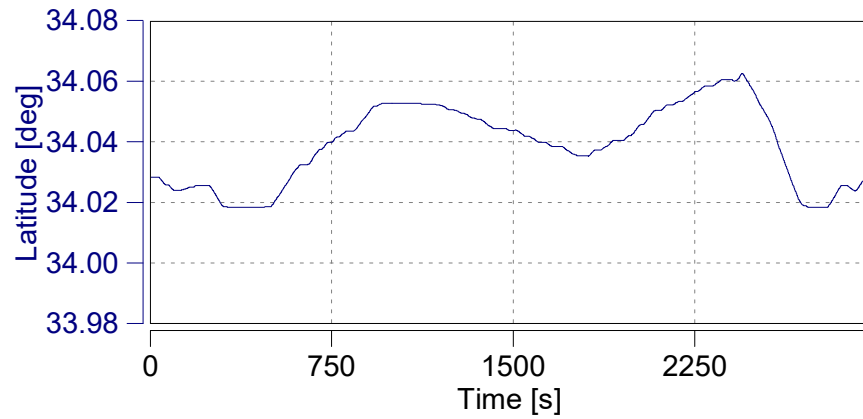
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

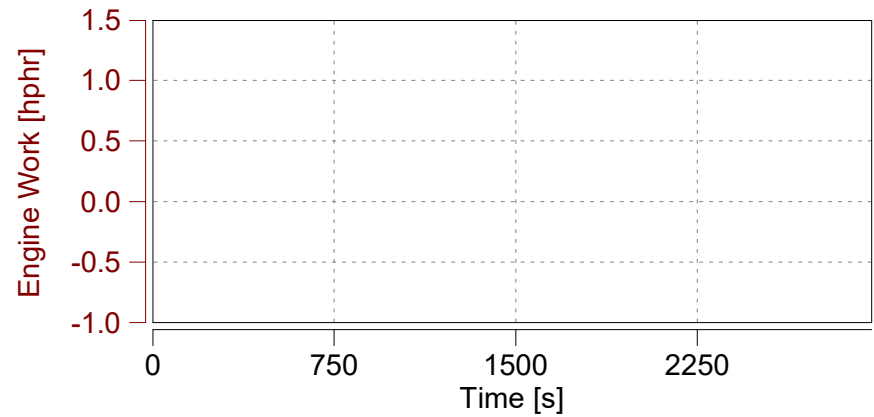
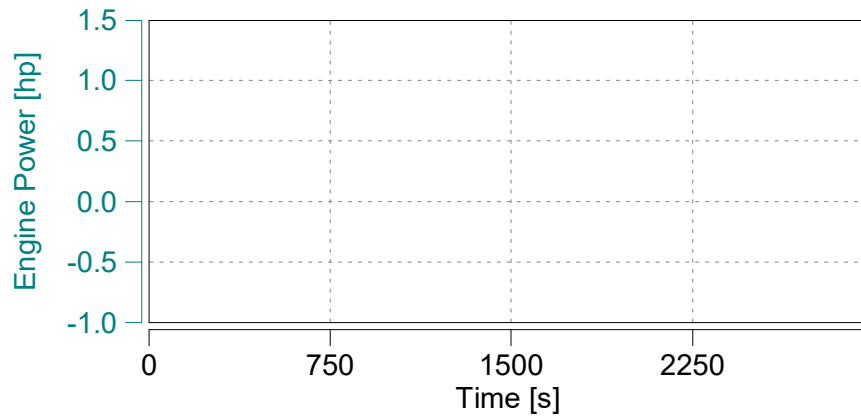
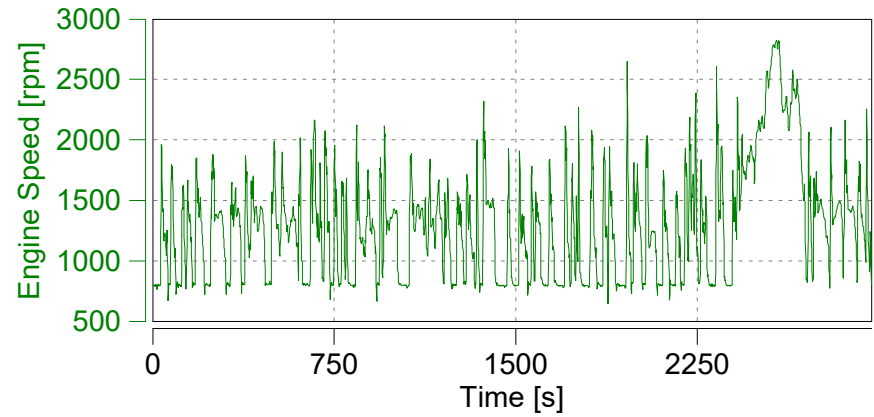
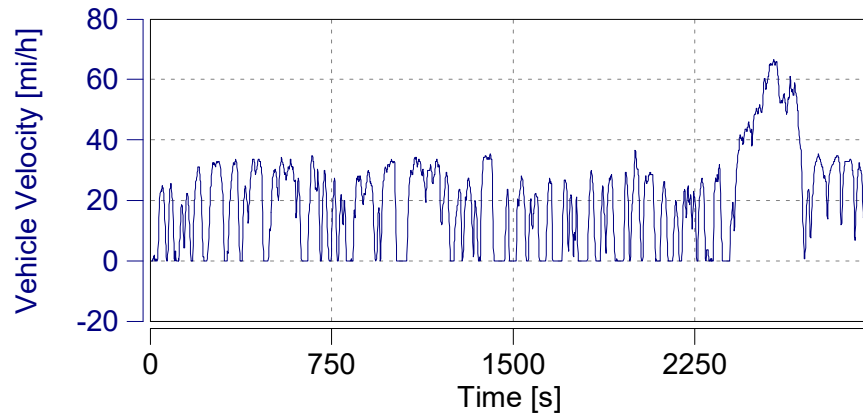
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



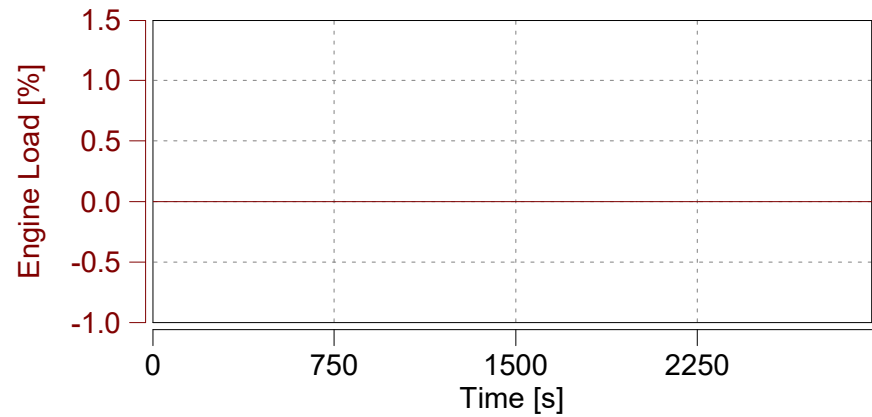
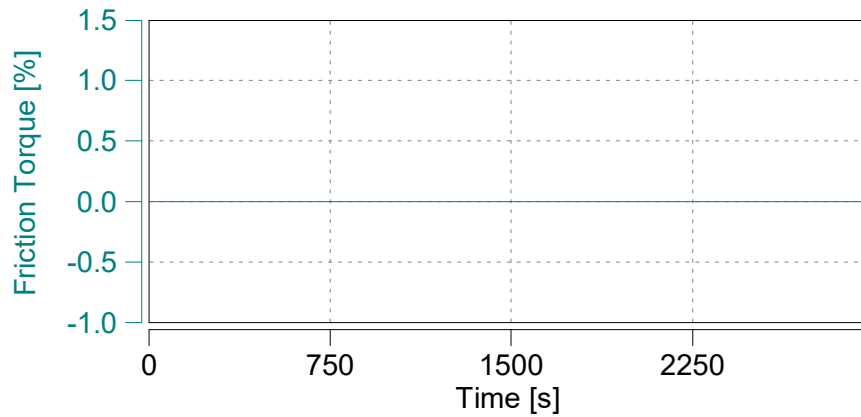
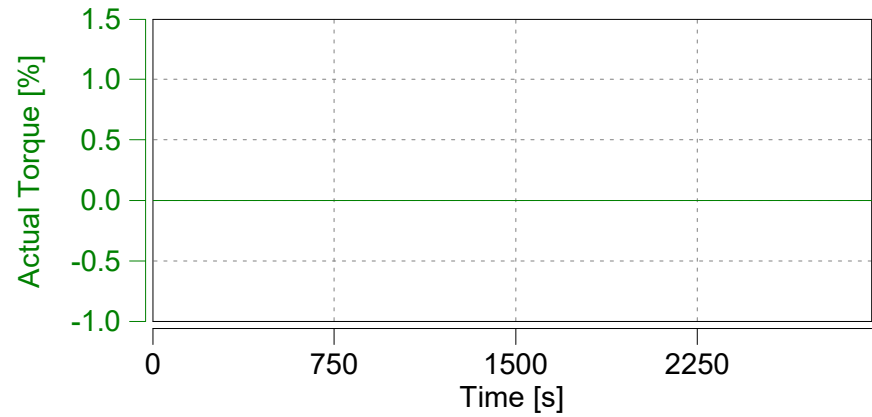
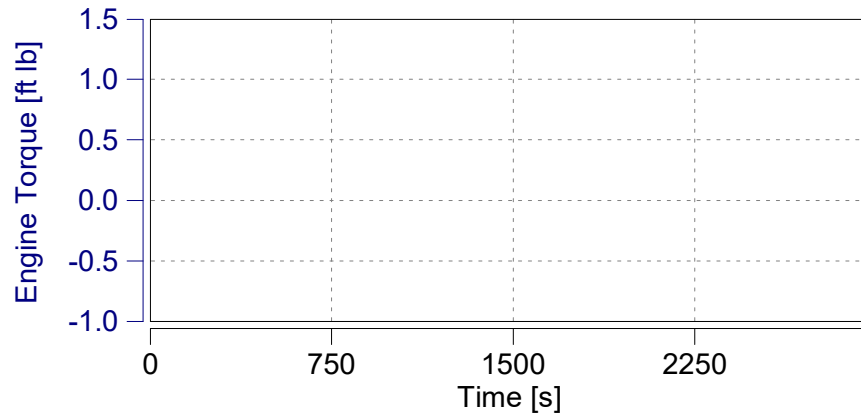
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

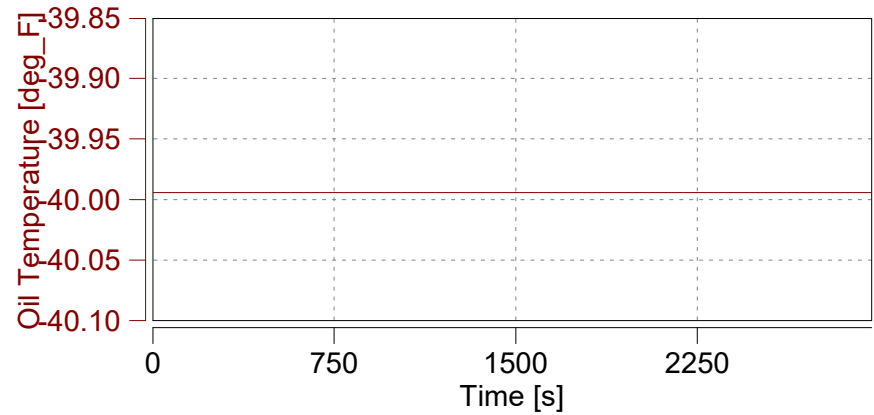
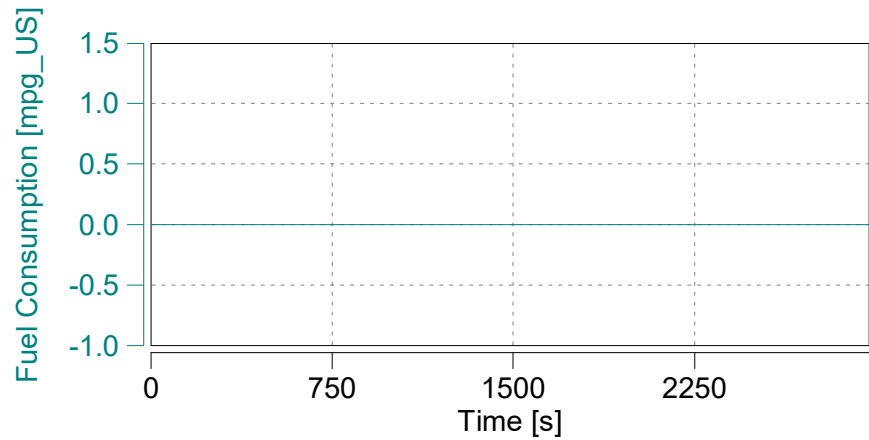
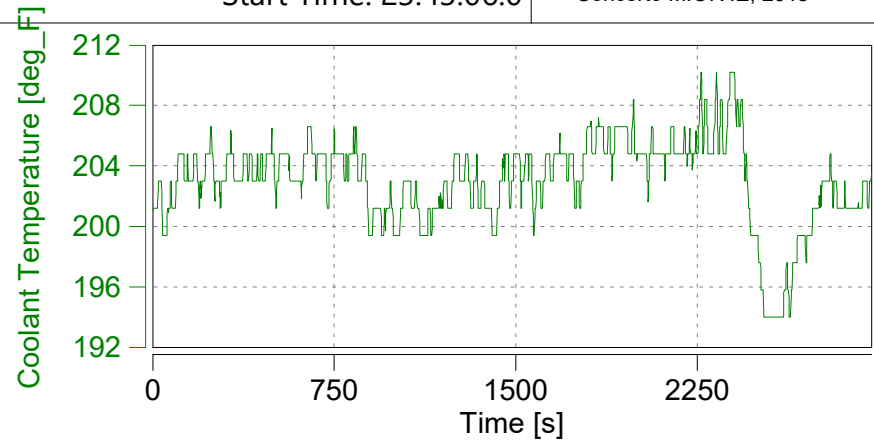
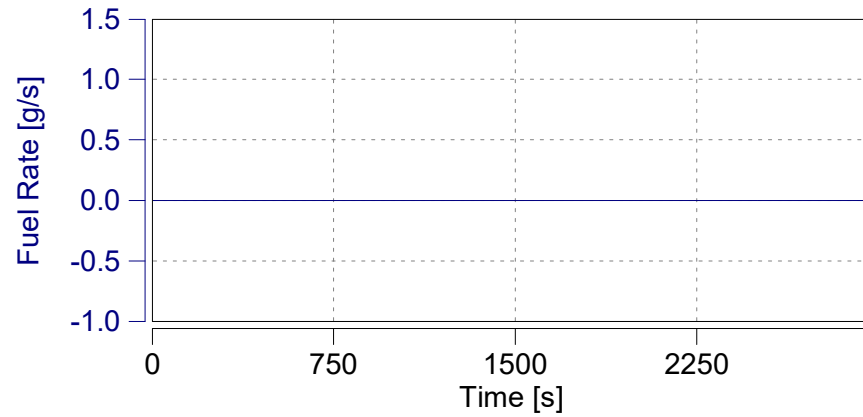
Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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





Concerto Version: 480 Build 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)

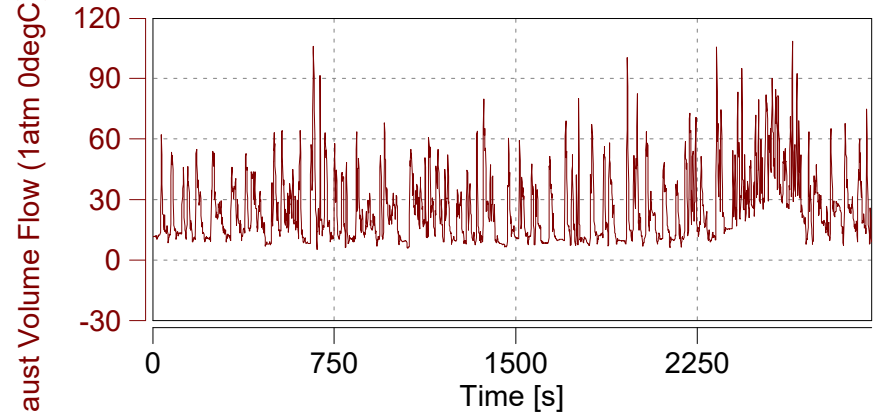
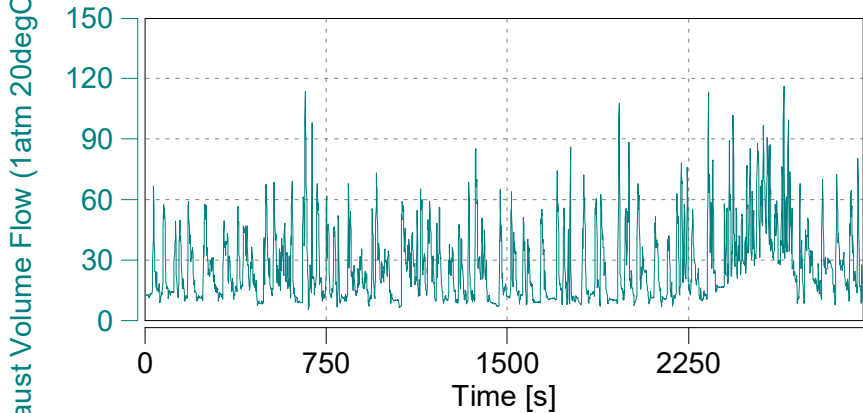
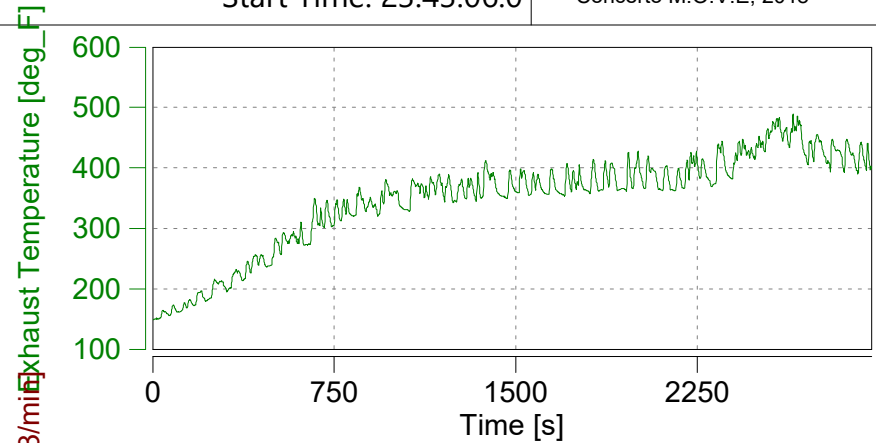
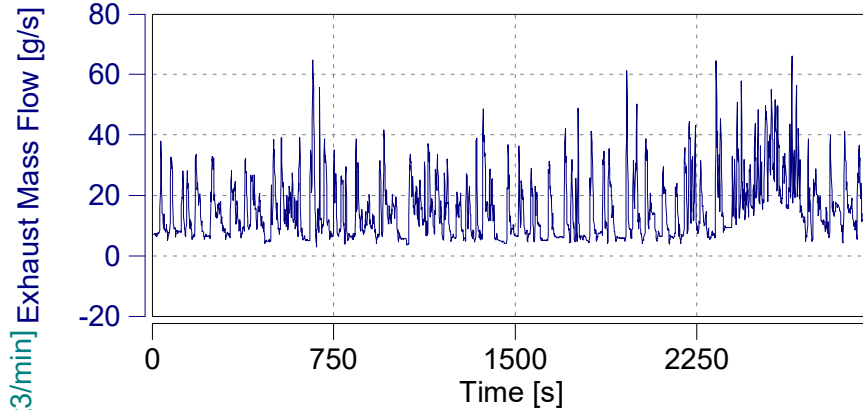
'City'

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)

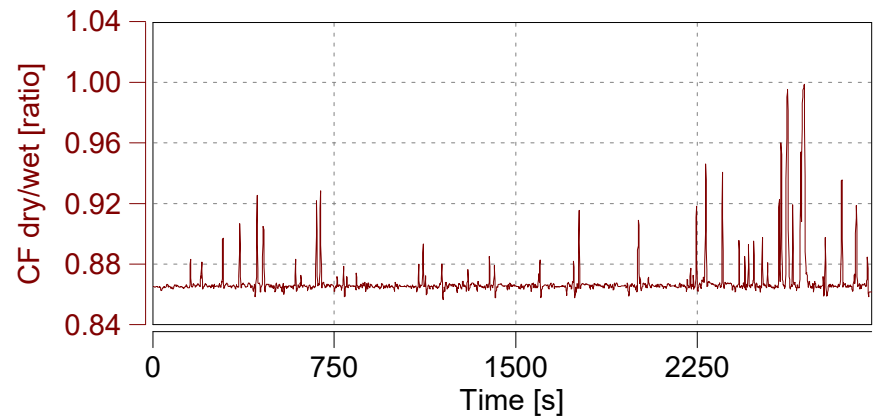
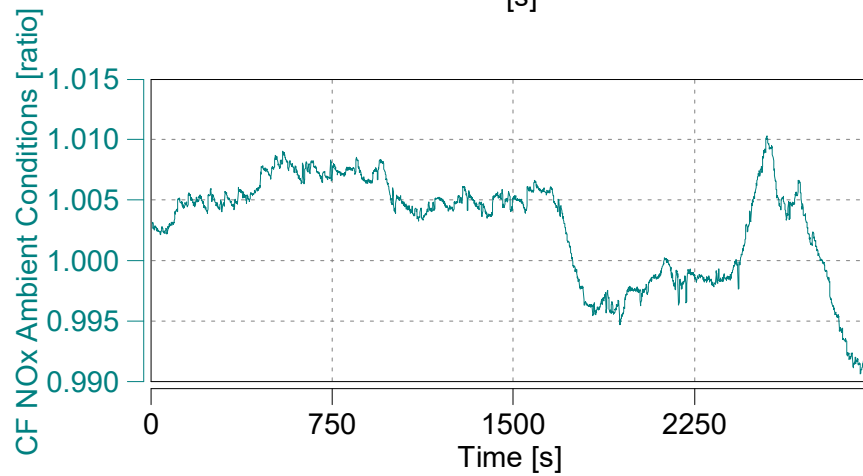
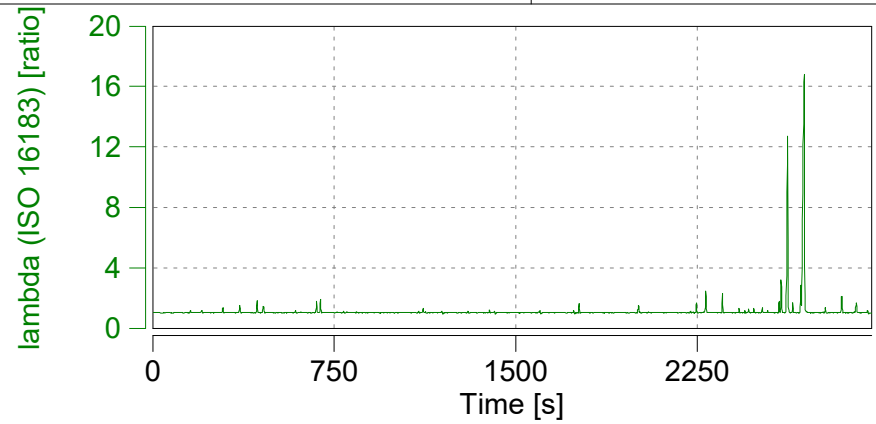
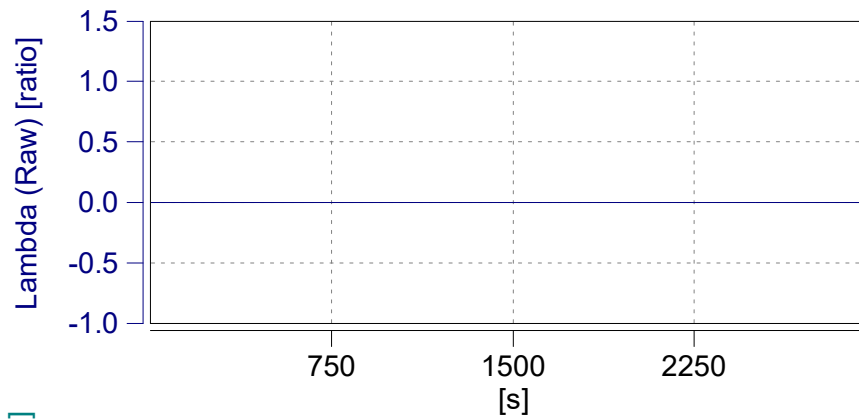
'City'

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)

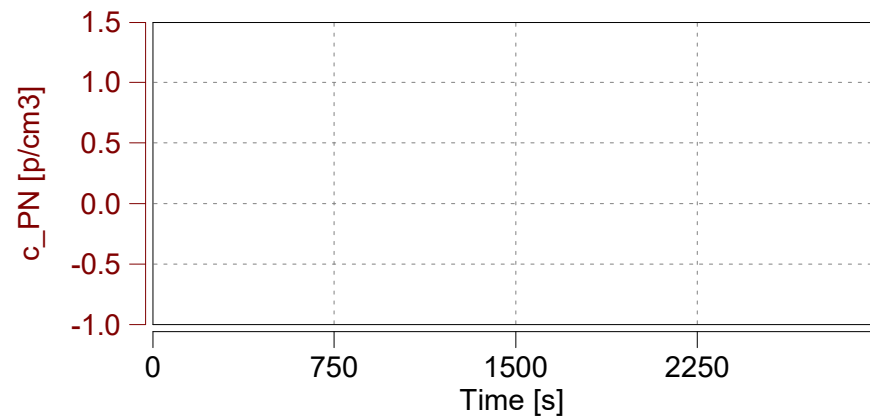
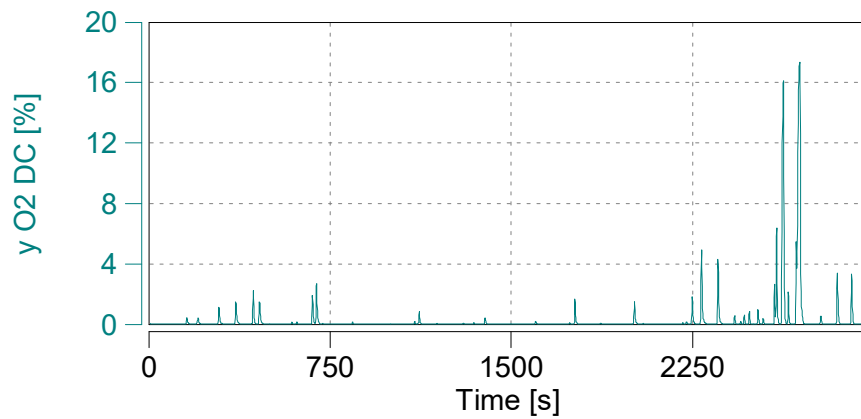
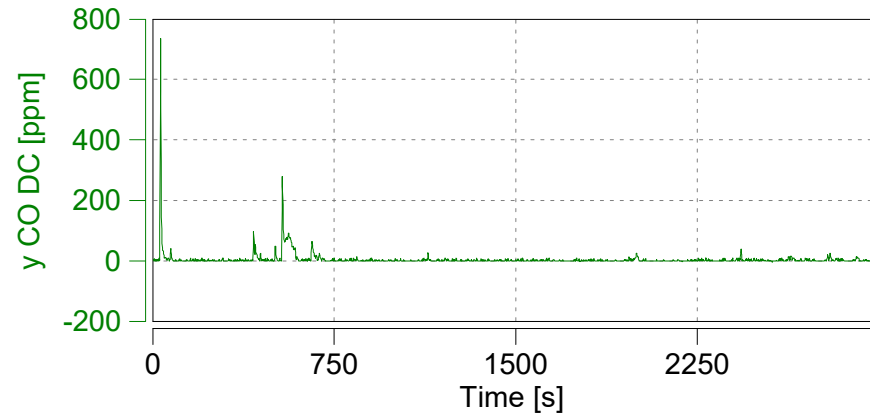
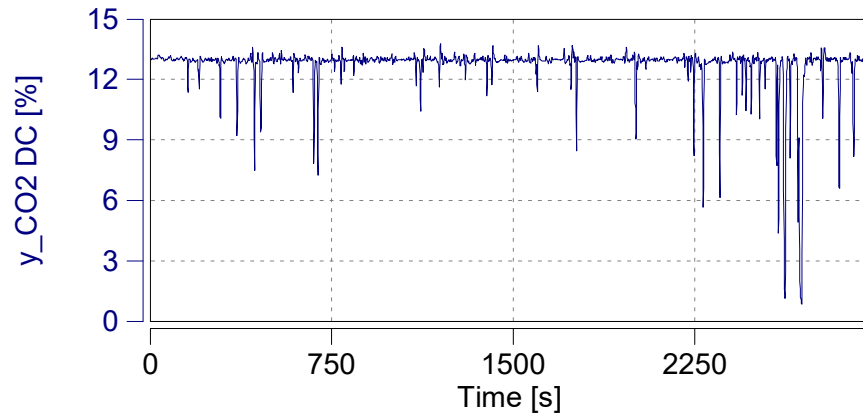
'City'

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)

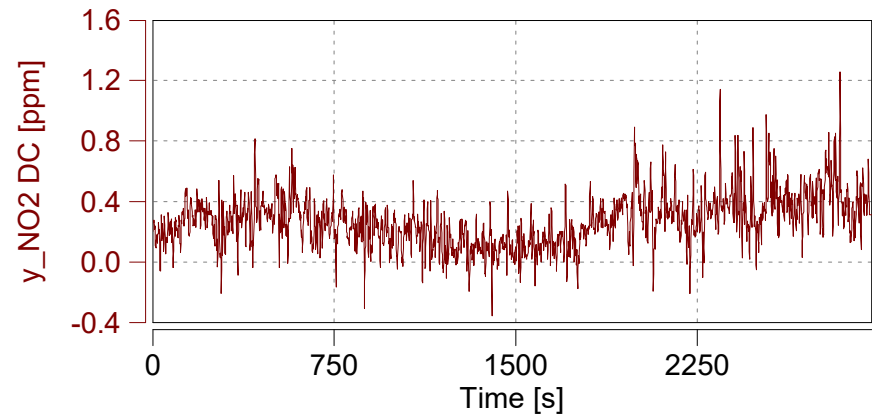
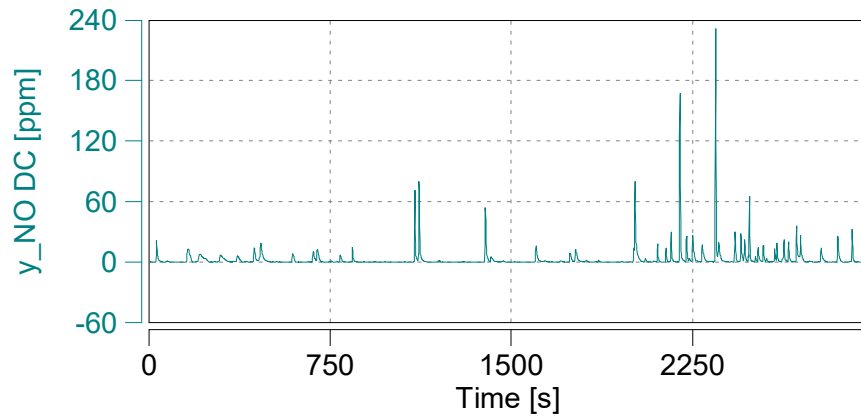
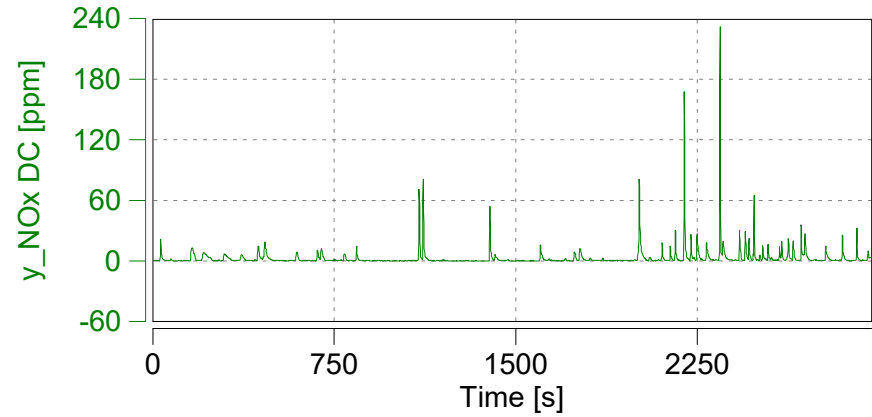
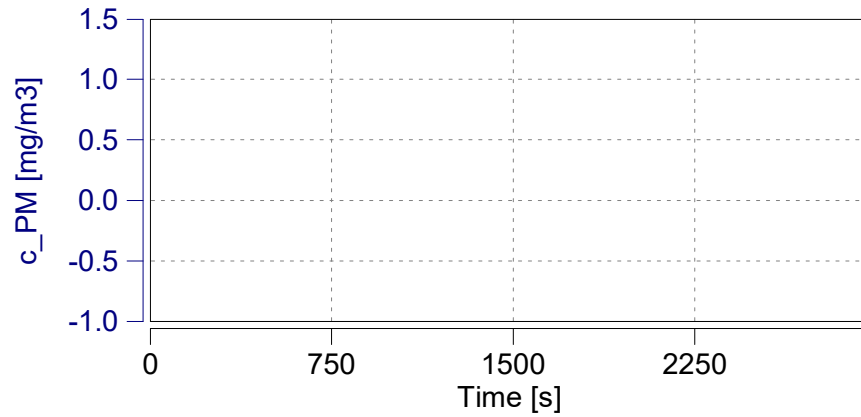
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0

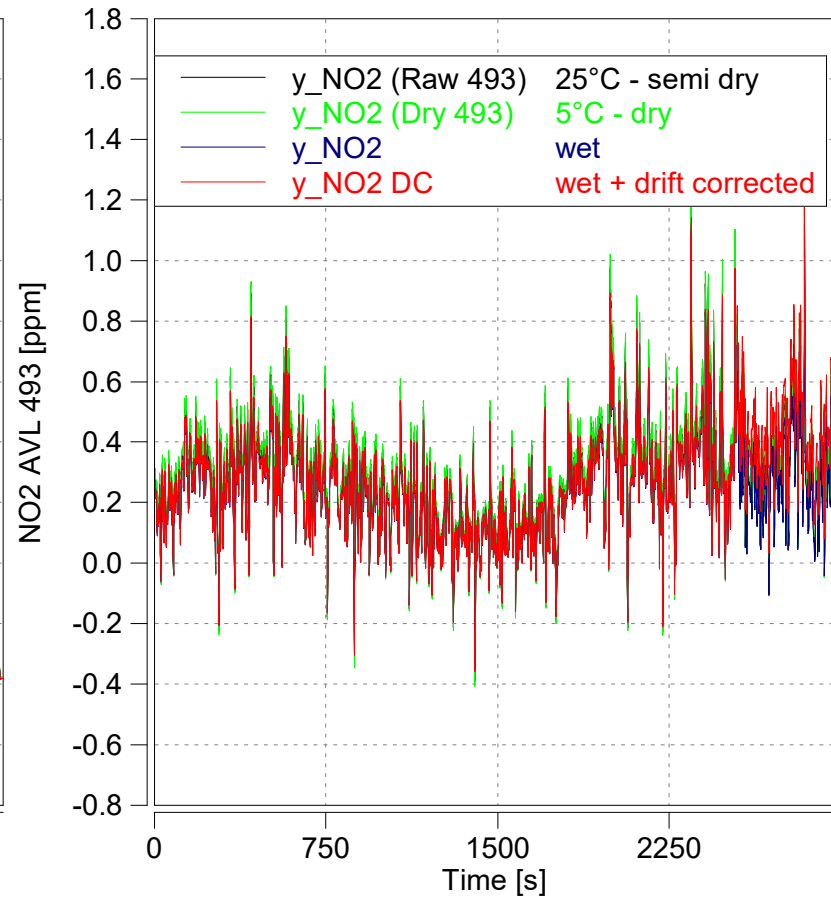
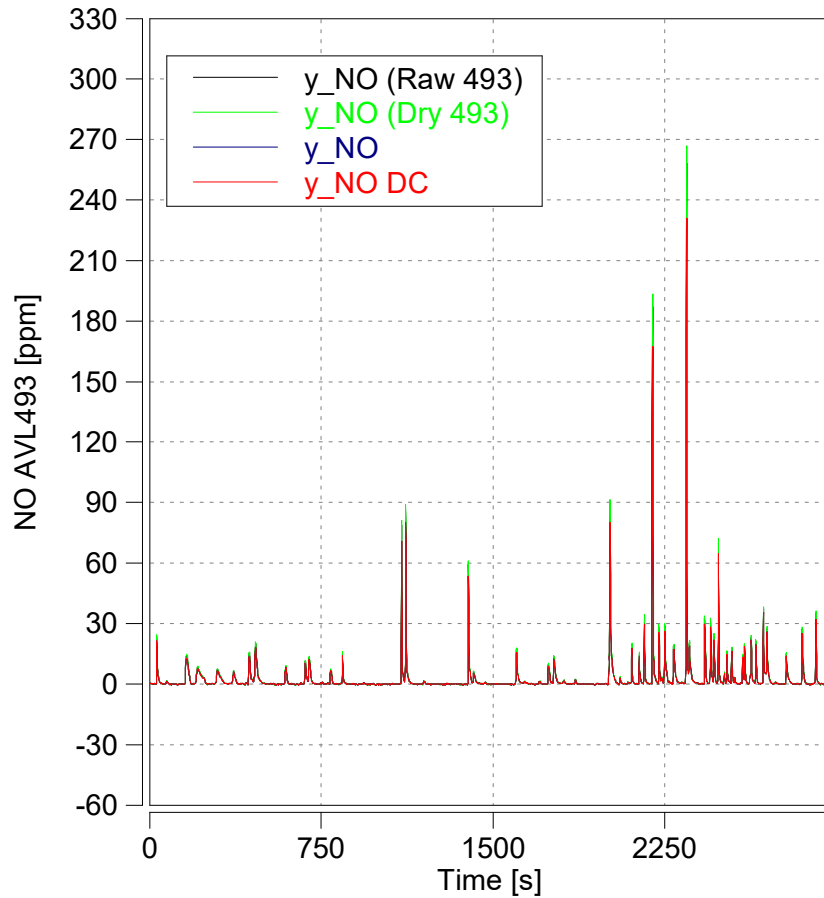


Concerto M.O.V.E., 2018



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\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

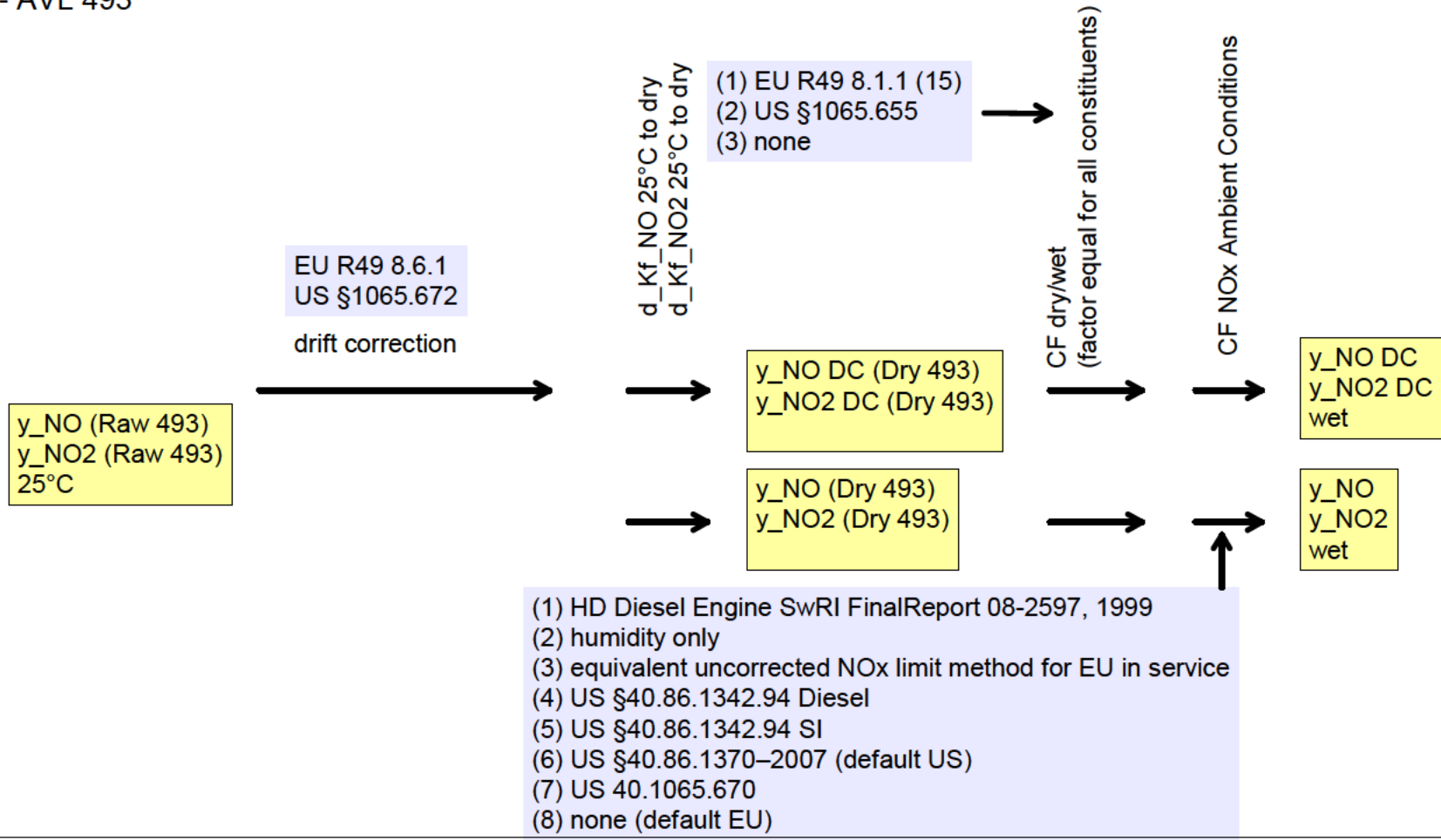
Engine: /

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

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



NOx - AVL 493



Case: City

Page: Corrected Emissions (5)

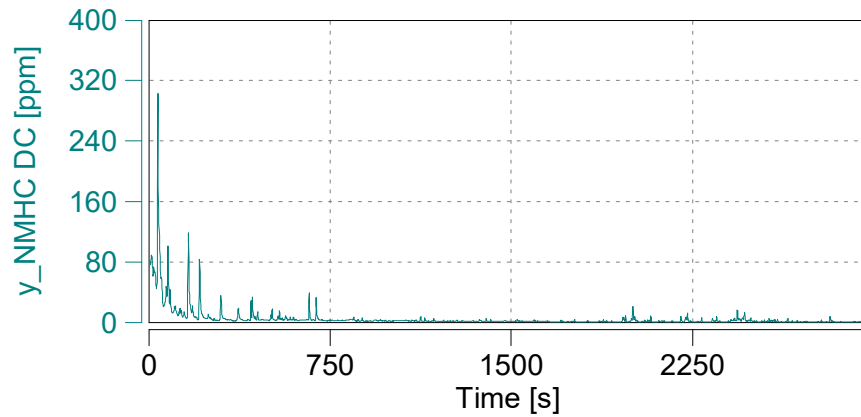
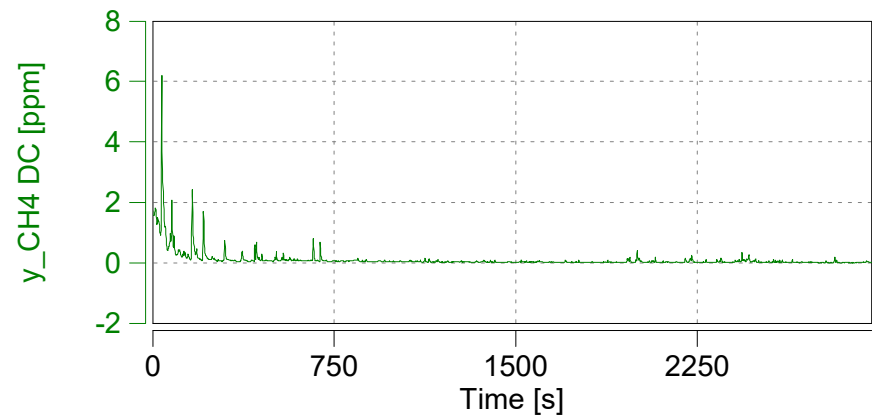
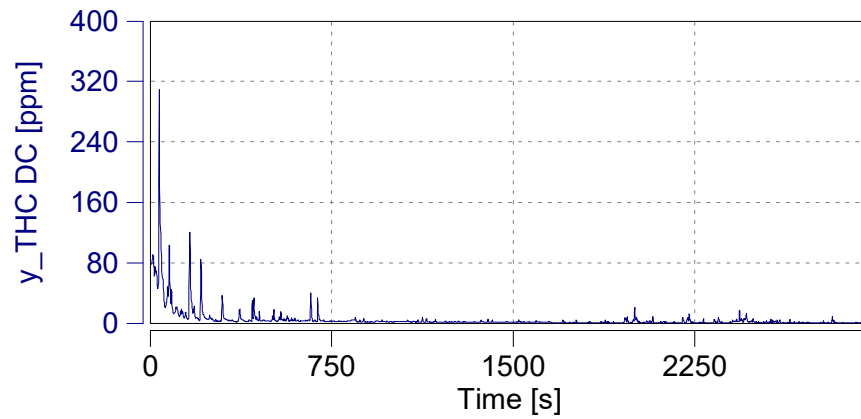
'City'

Start Date: 08/01/2019

Start Time: 23:43:06.0

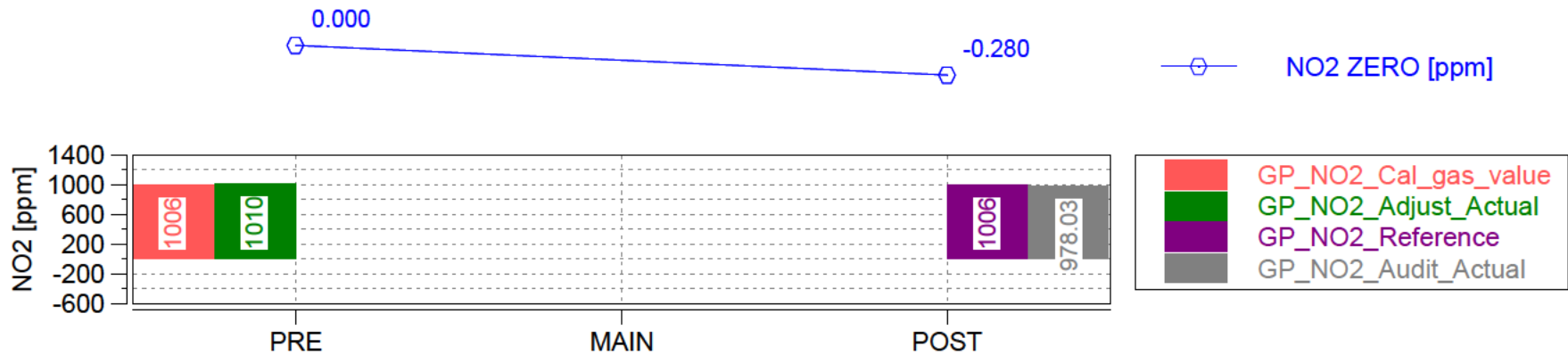
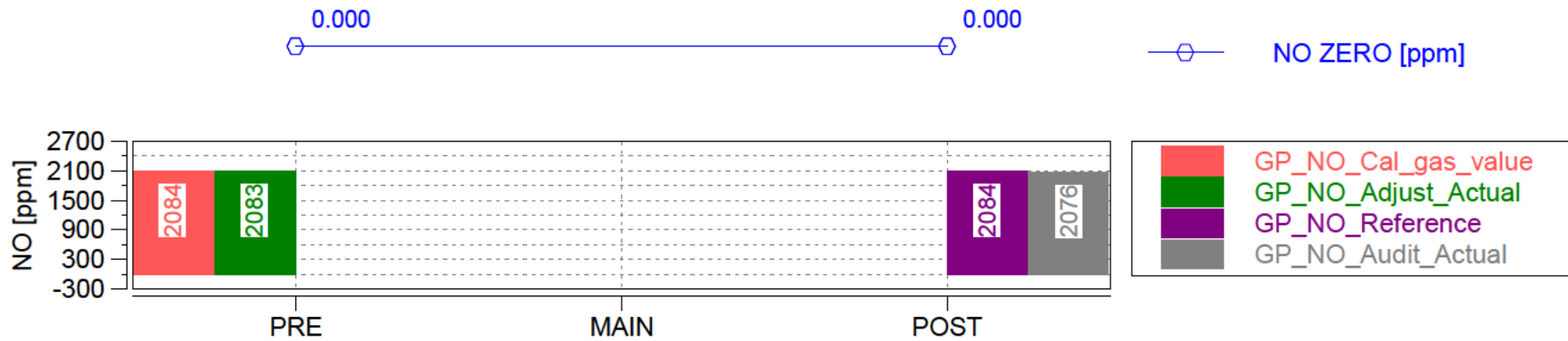


Concerto M.O.V.E., 2018



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

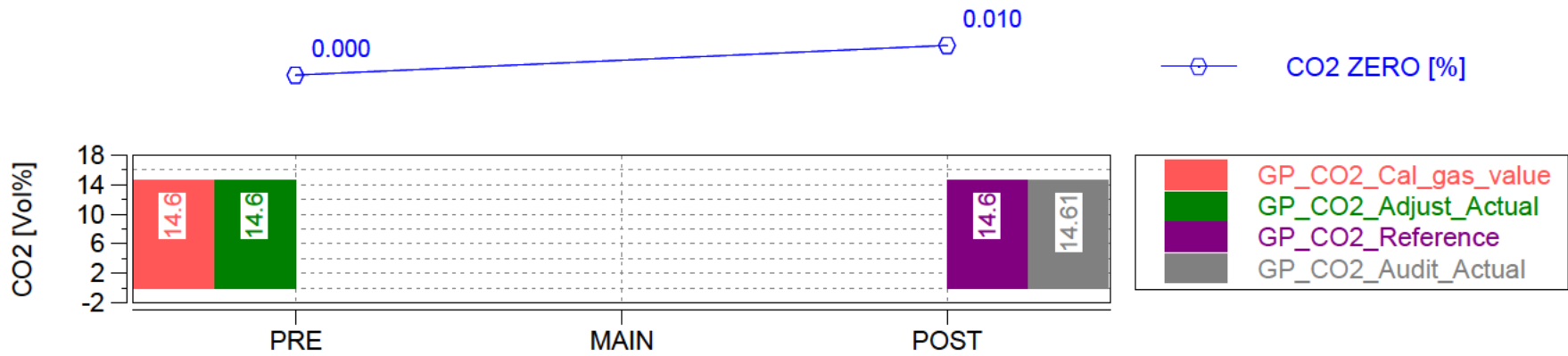
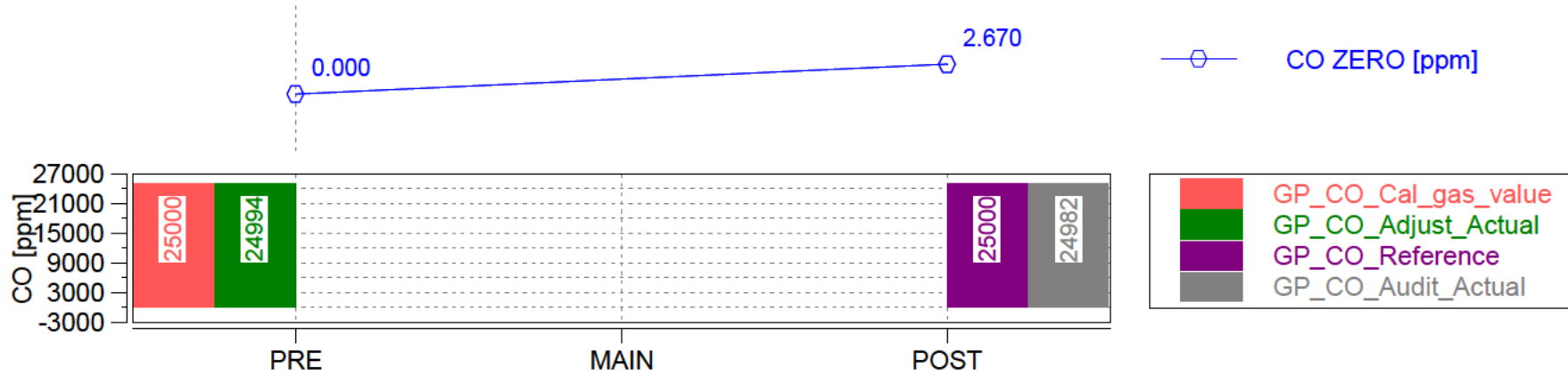
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Vehicle: R8 / 5.2 L

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

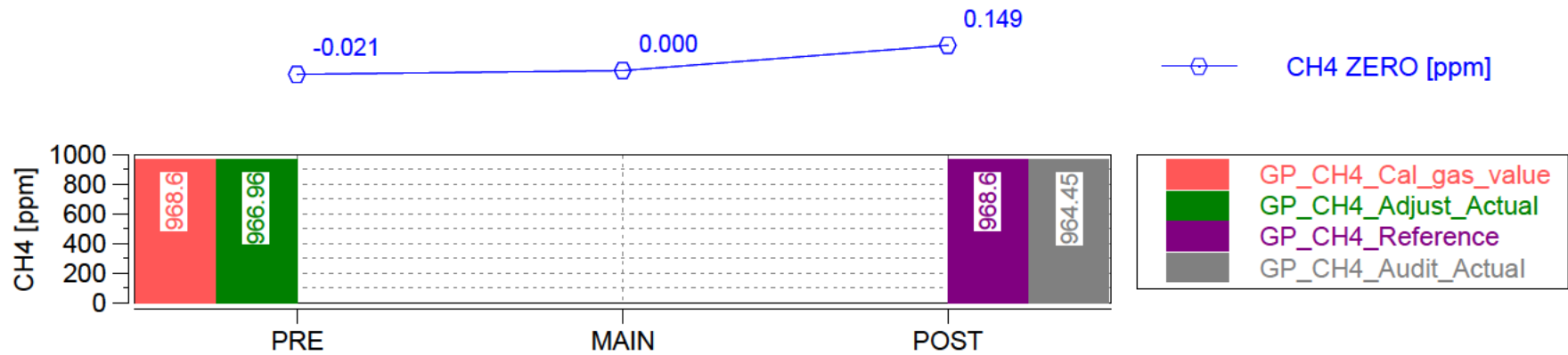
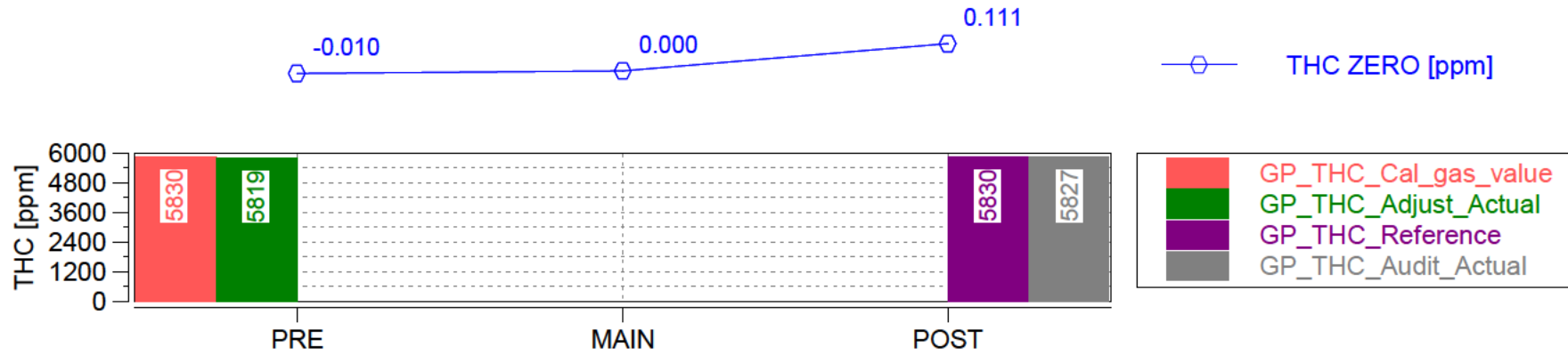
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

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

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



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
			ave CO2	12.31502	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx	10.69205	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)	5.96	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. US (ac)	5.90	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	1.44627	g	BS PN	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	2.11	gall	tot NMHC	1.33781	g			
Trip Fuel Cons. Volume US (ac)	2.09	gall	tot CH4	0.03206	g	DS CO2	463.72092	g/mi
			tot CO	2.22373	g	DS CO	0.05739	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2	17968.70098	g	DS THC	0.03732	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO (d)	1.09216	g	DS NMHC	0.03453	g/mi
Trip Fuel Economy EU (ac)	18.40	mpg_US	tot NO2	0.01800	g	DS CH4	0.00083	g/mi
Trip Fuel Economy US (ac)	18.58	mpg_US	tot NOx	1.11016	g	DS NO (d)	0.02819	g/mi
			tot Soot	n/a	g	DS NO2	0.00046	g/mi
Trip Av. Eng. Speed	2310.69	rpm	tot Soot meas	n/a	g	DS NOx	0.02865	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	94.78	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	76.77	deg_F				FS NMHC	n/a	g/kg
Trip Av. Humidity	54.64	%	Trip Av. Veh. Speed	50.92996	mi/hr	FS CH4	n/a	g/kg
			Trip Velocity Zero	1.60643	%	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: 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

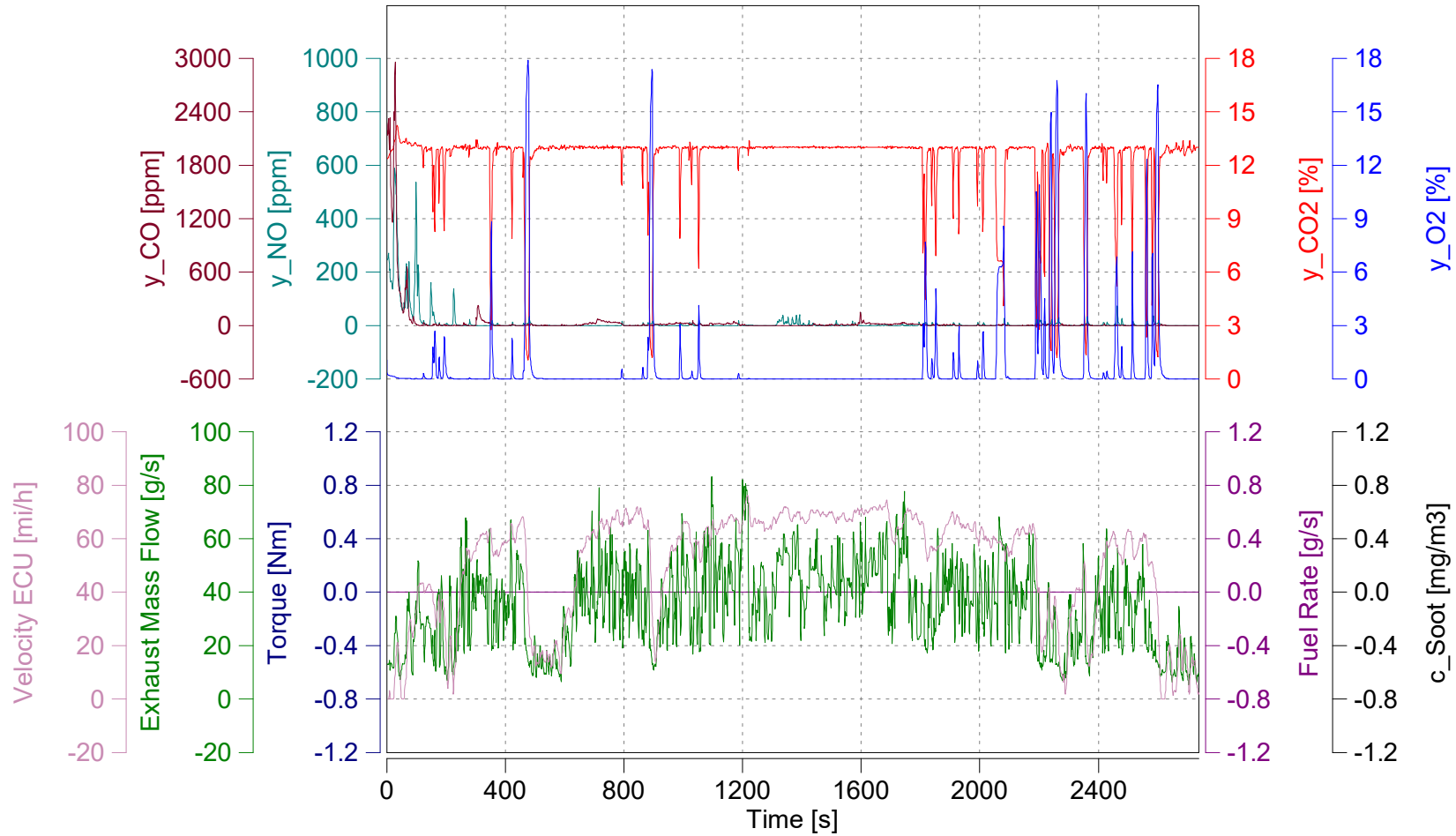
Concerto Version: 480 Build 316, Serial Number: 1120

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

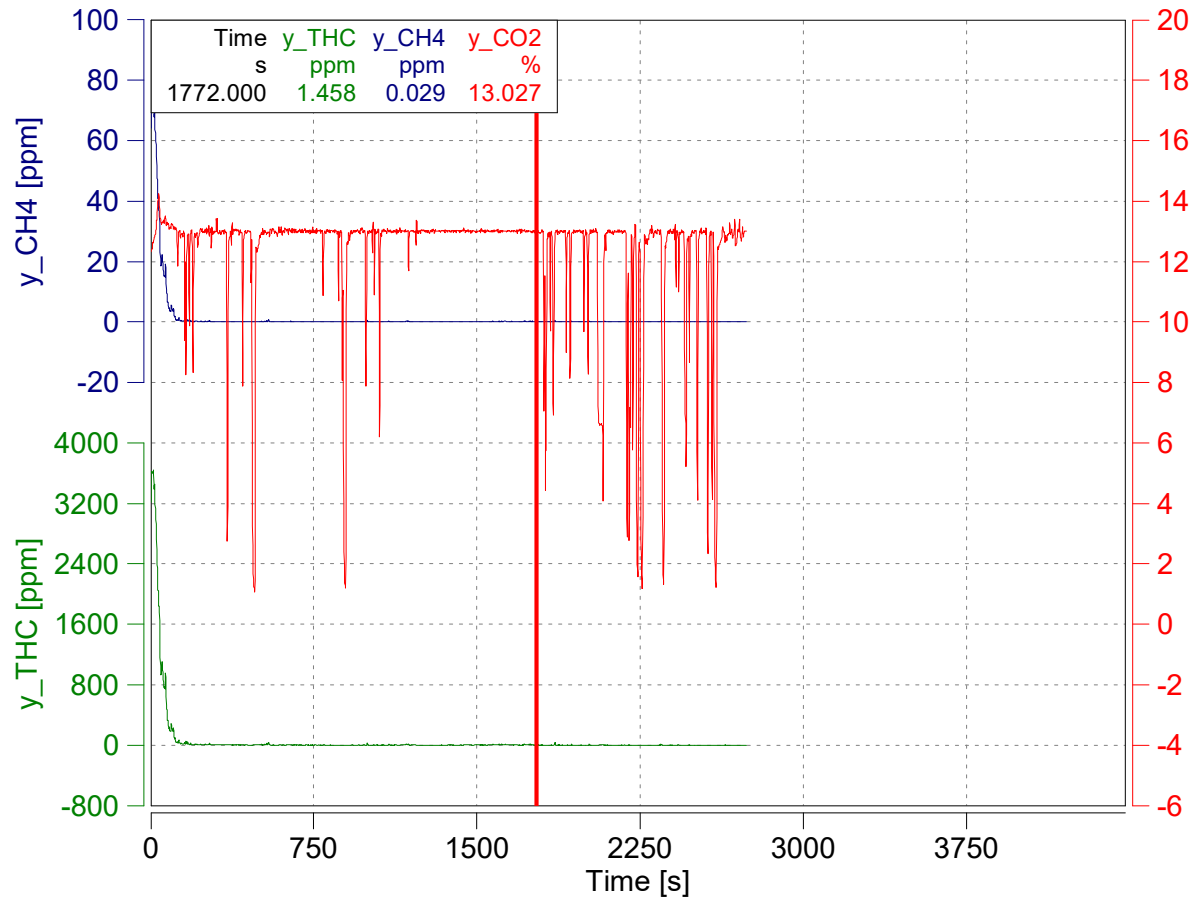
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Vehicle: R8 / 5.2 L

Engine: /

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

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



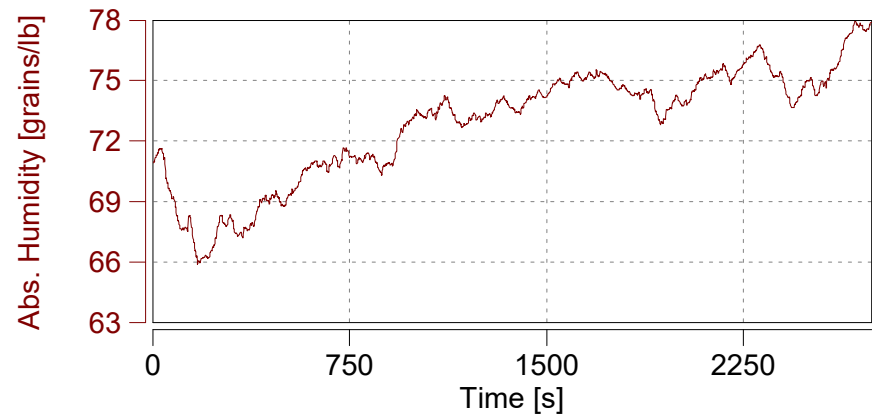
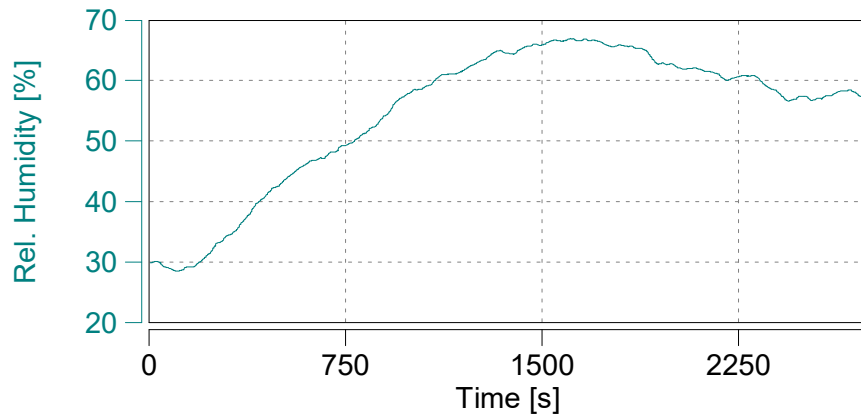
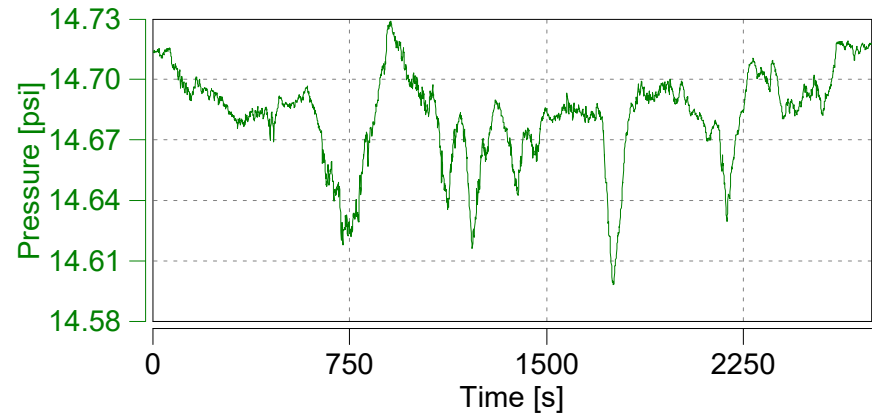
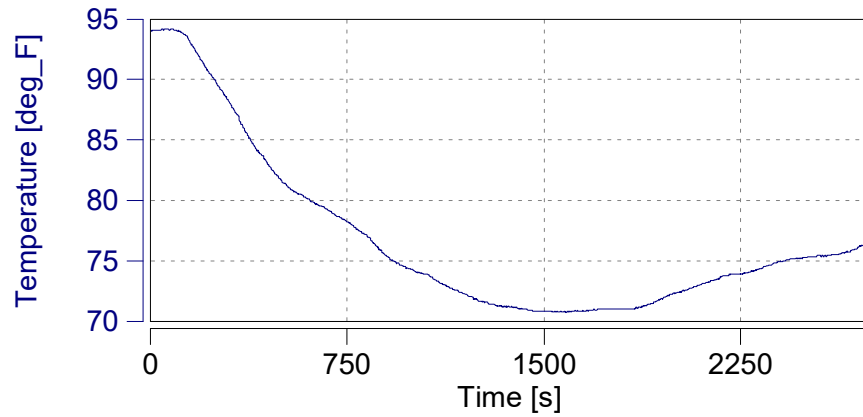
y_CO2 [%]

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

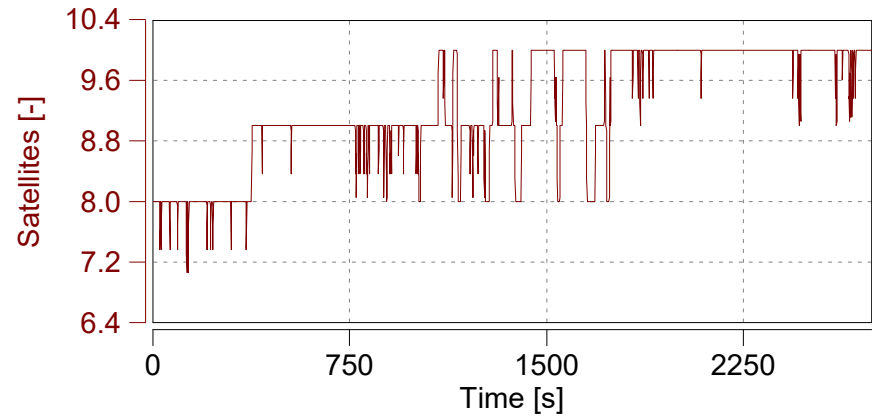
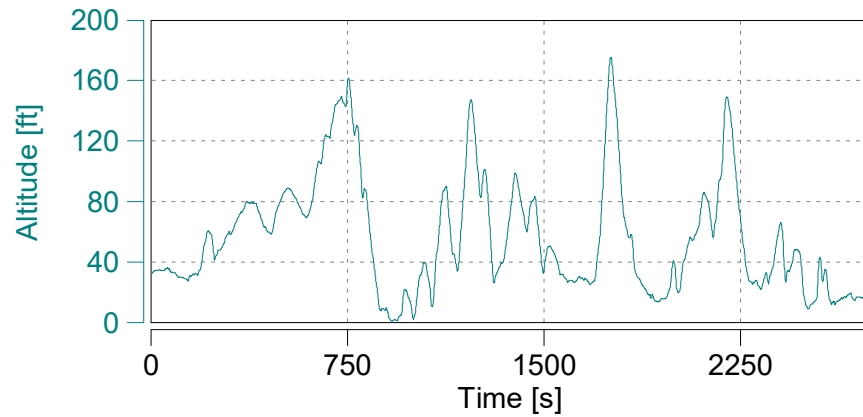
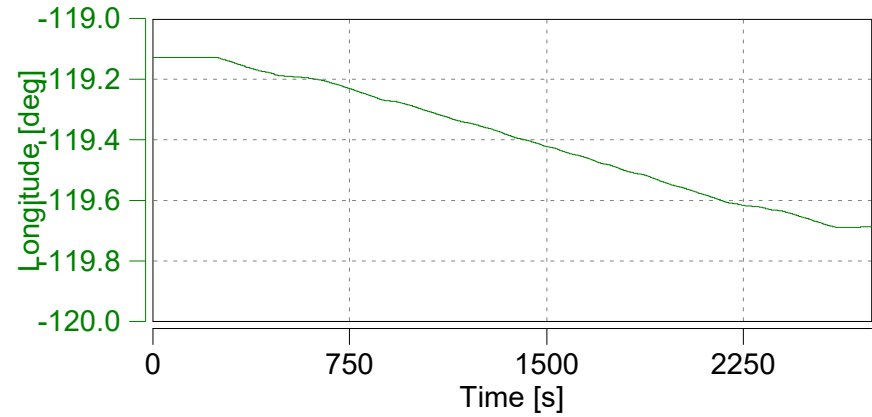
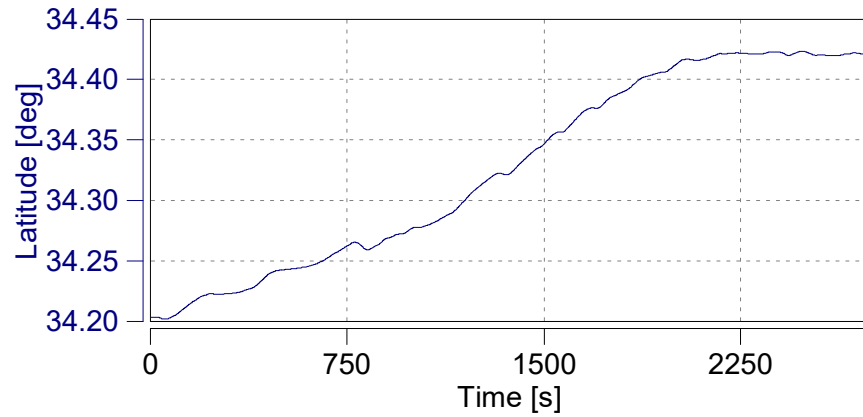
'Highway'

Start Date: 08/01/2019

Start Time: 14:05:06.0

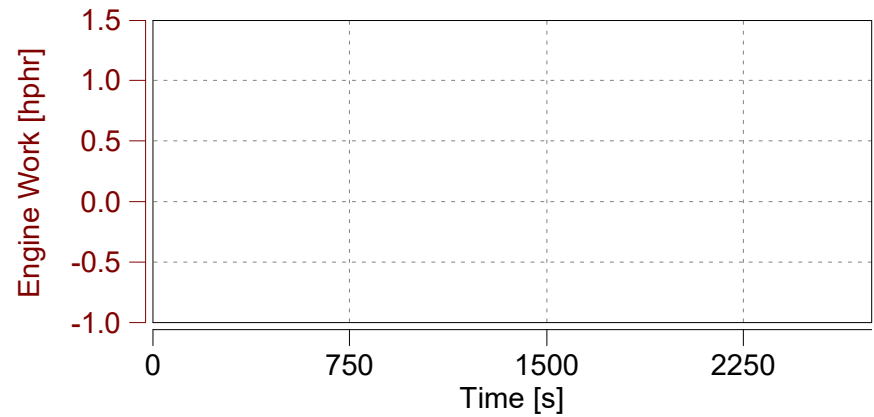
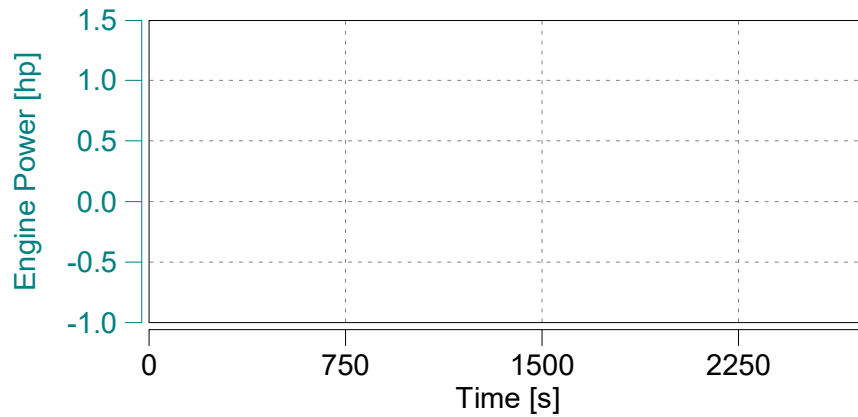
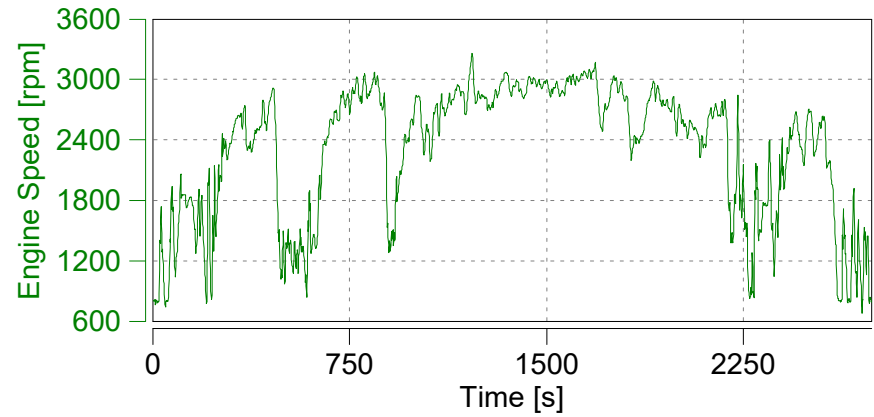
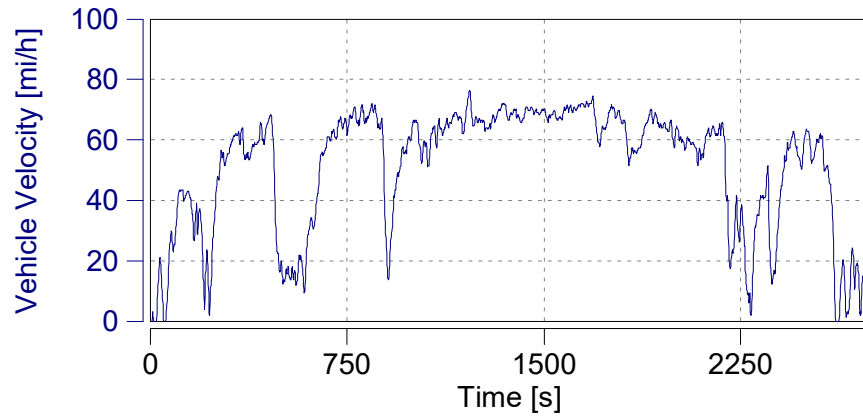


Concerto M.O.V.E., 2018



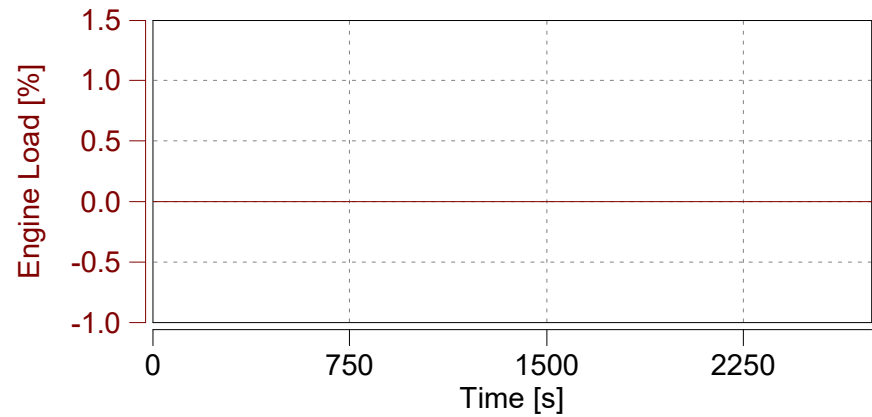
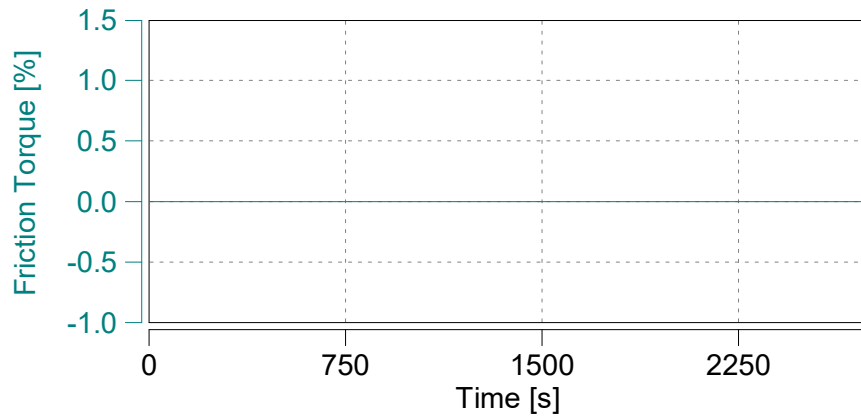
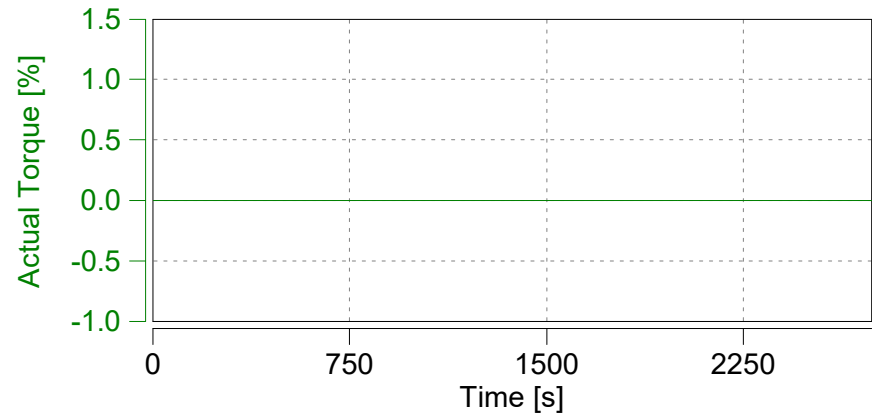
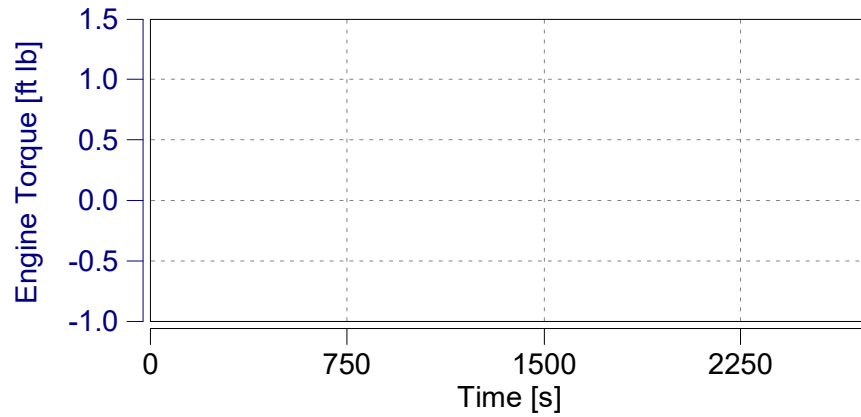
Concerto Version: 480 Build 316, Serial Number: 1120
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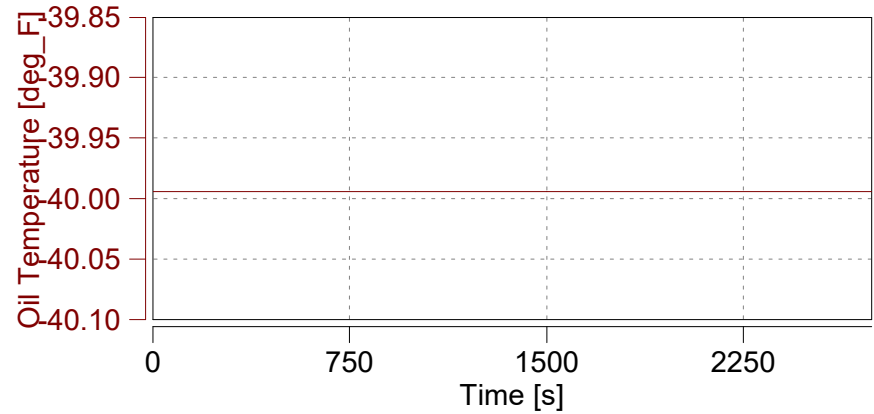
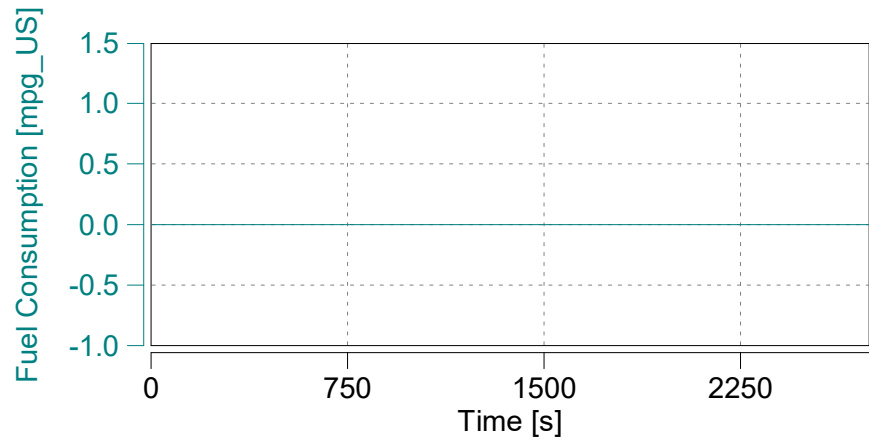
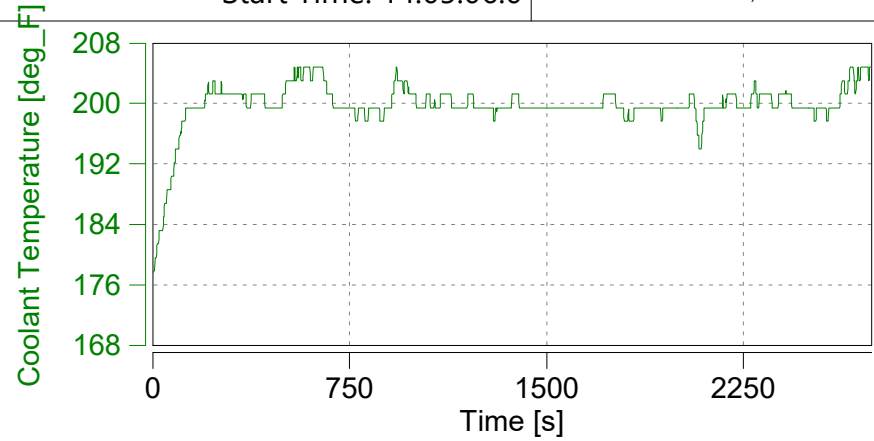
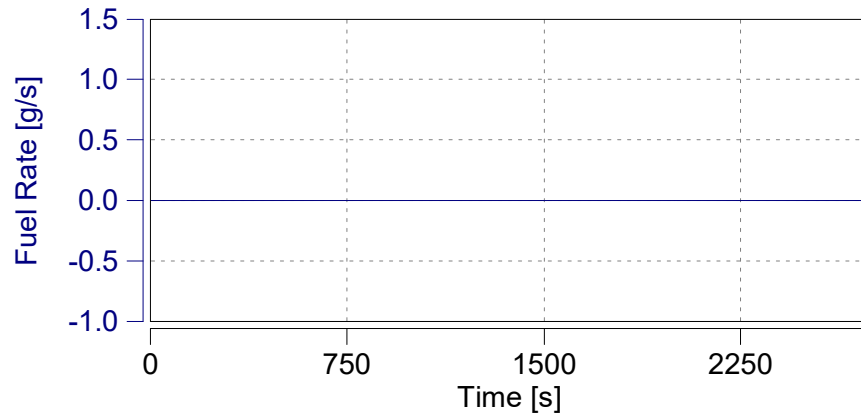
Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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: Highway

Page: Exhaust Flow (1)

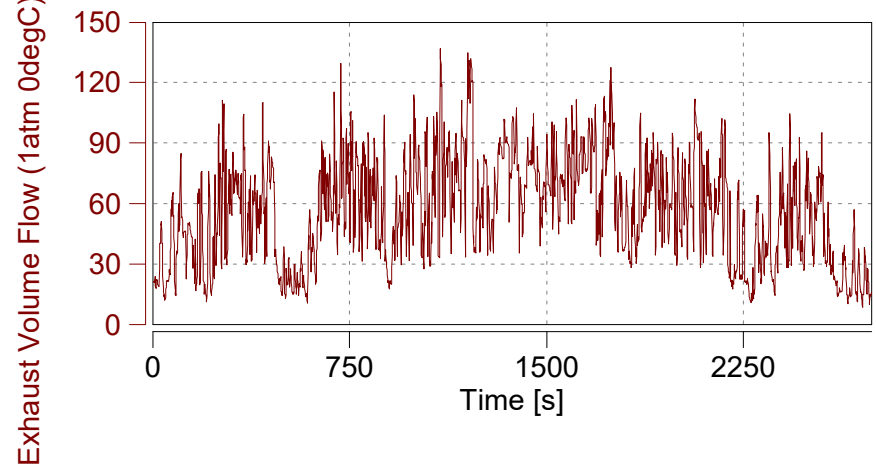
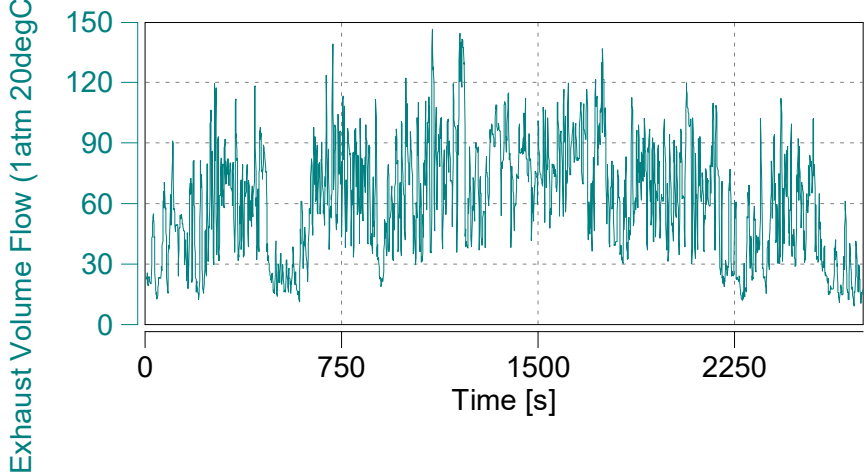
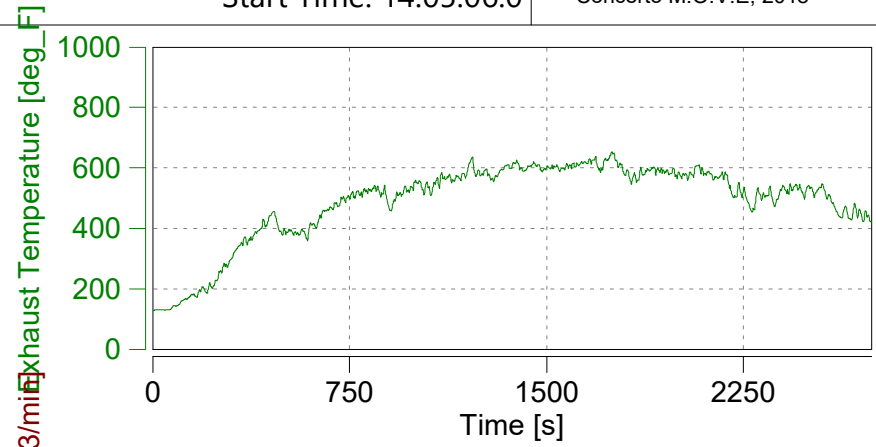
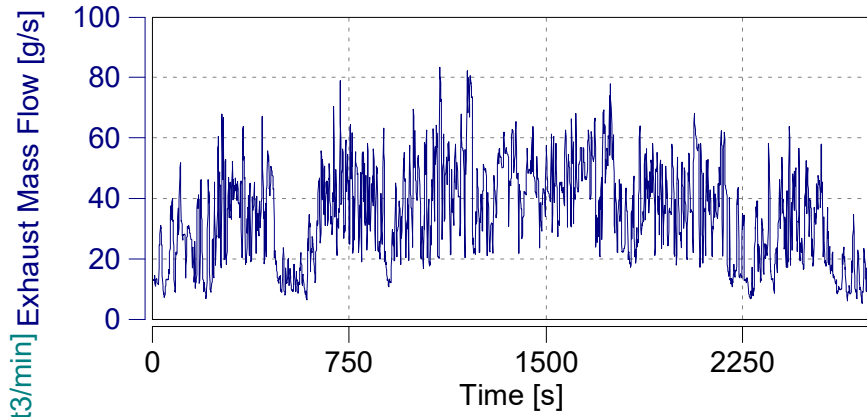
'Highway'

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)

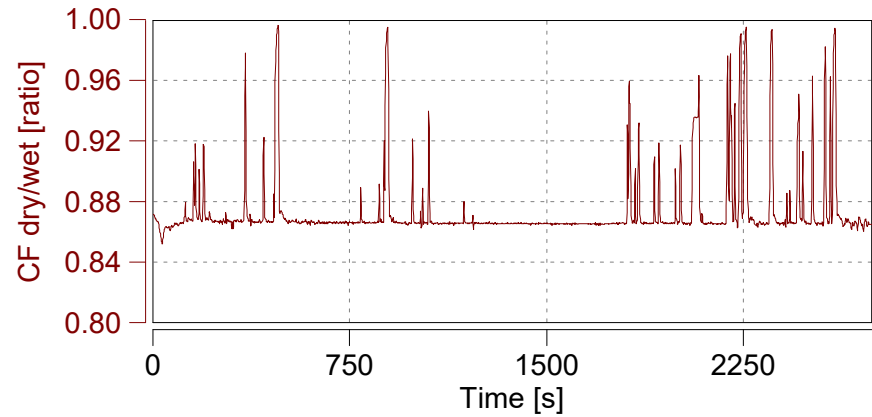
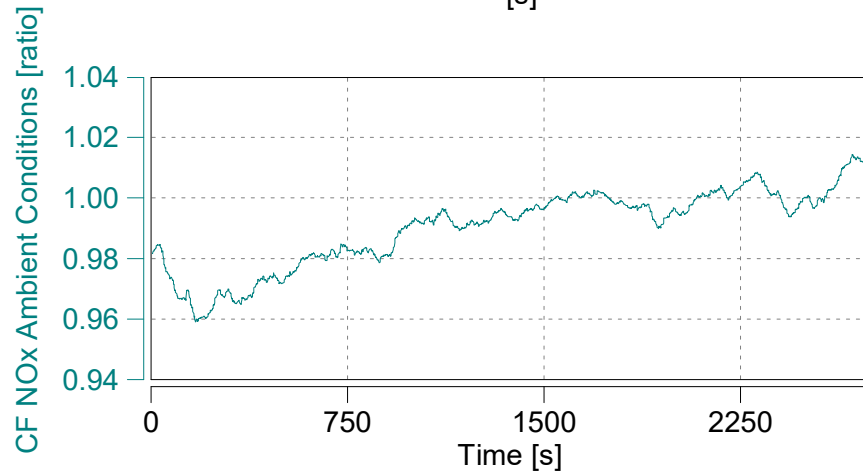
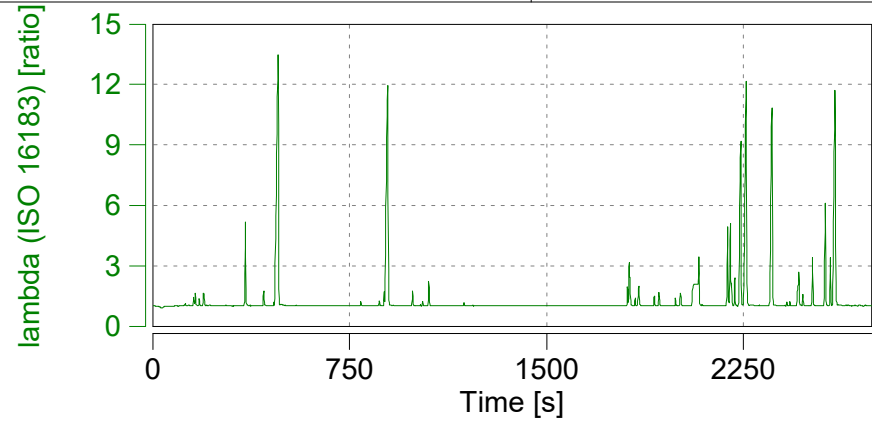
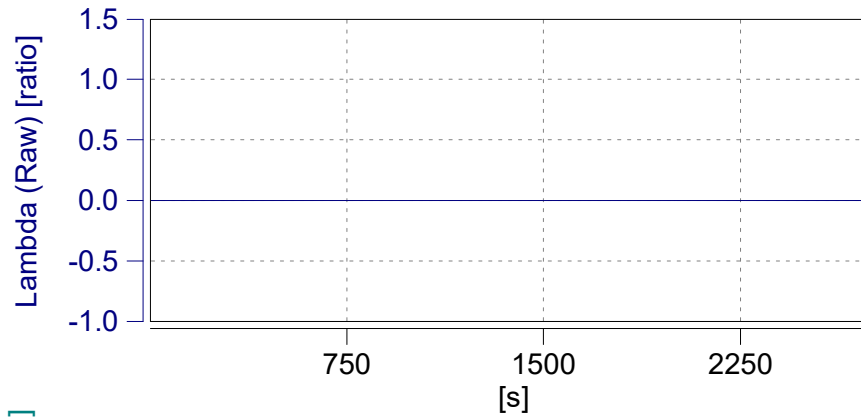
'Highway'

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)

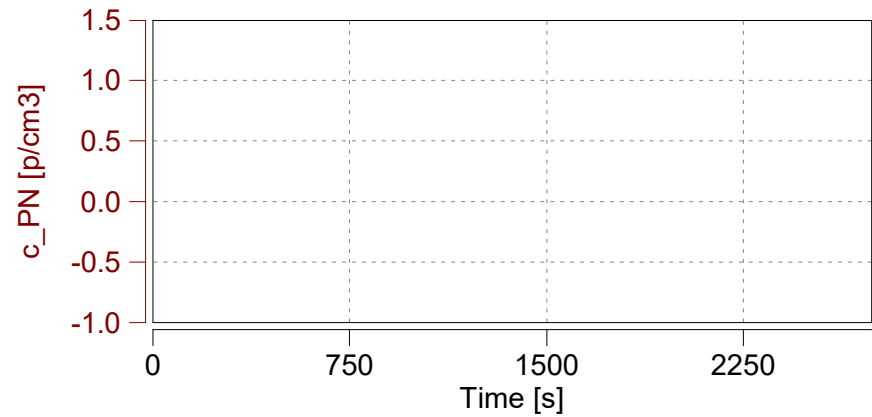
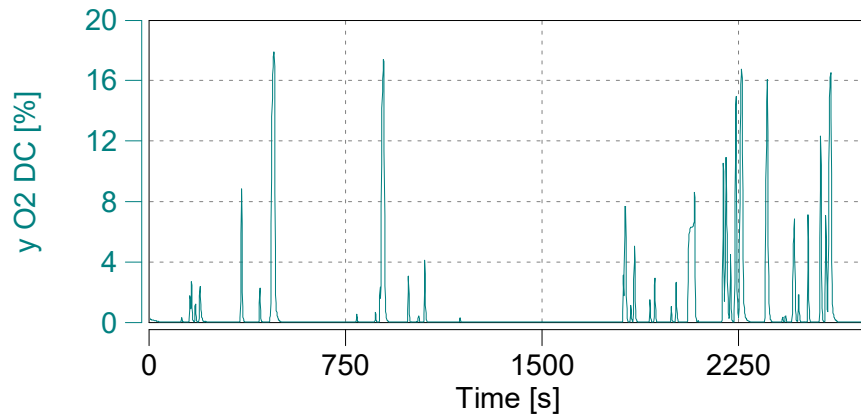
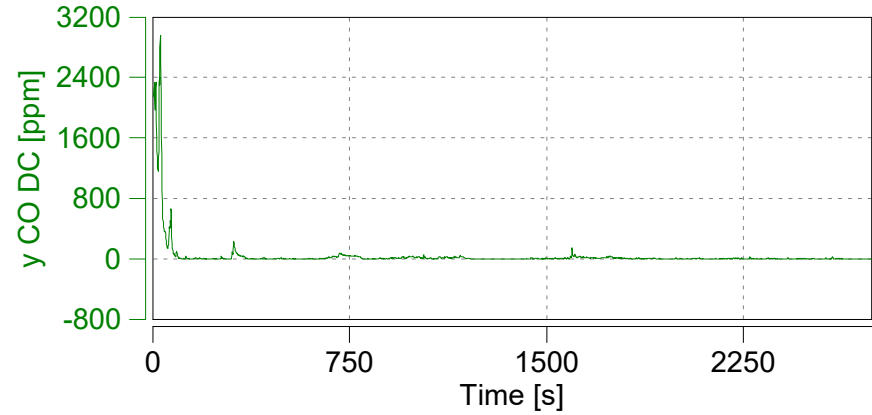
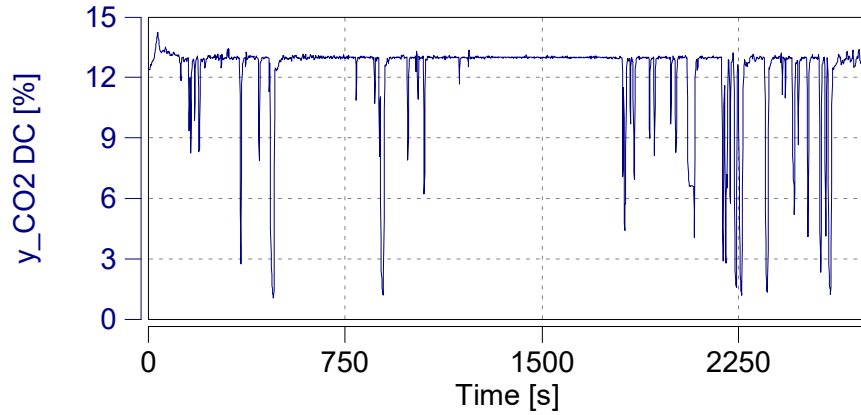
'Highway'

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

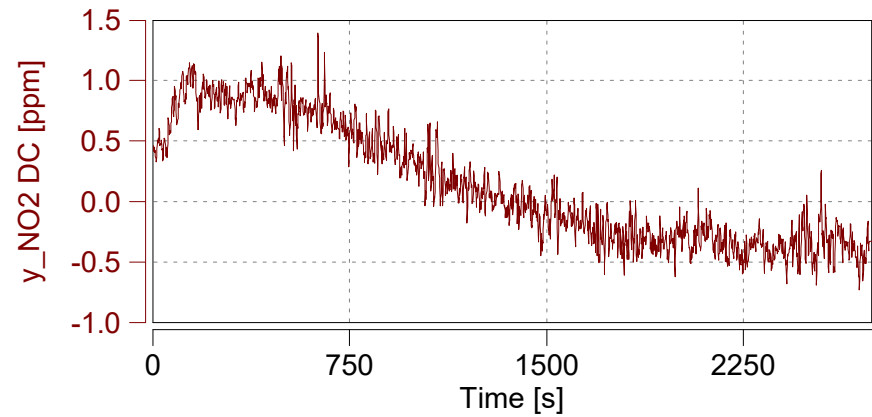
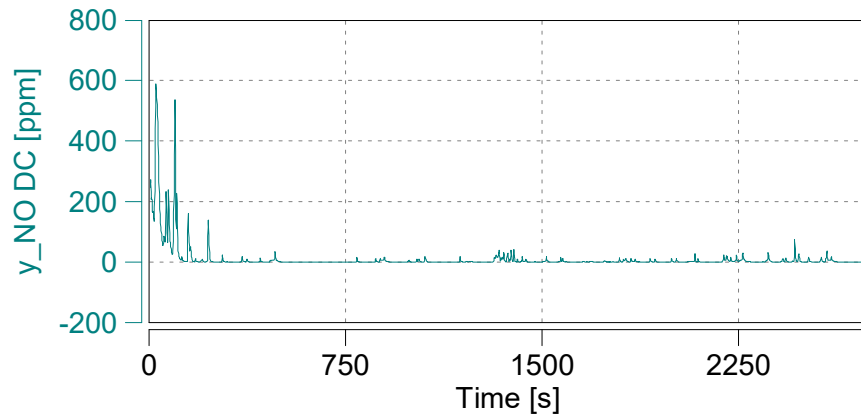
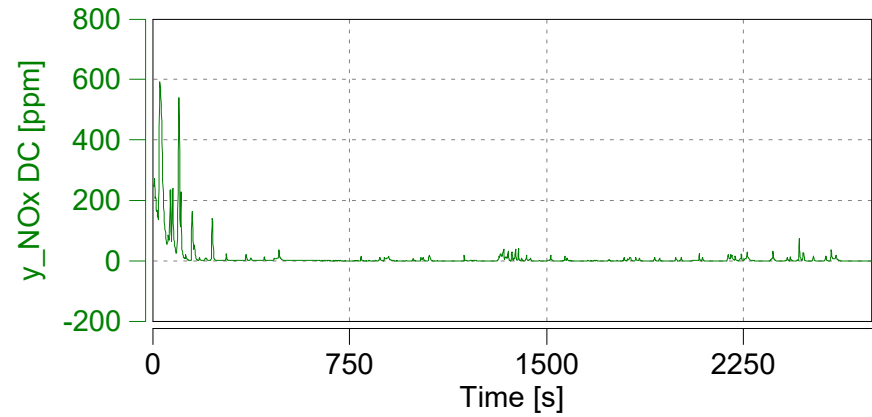
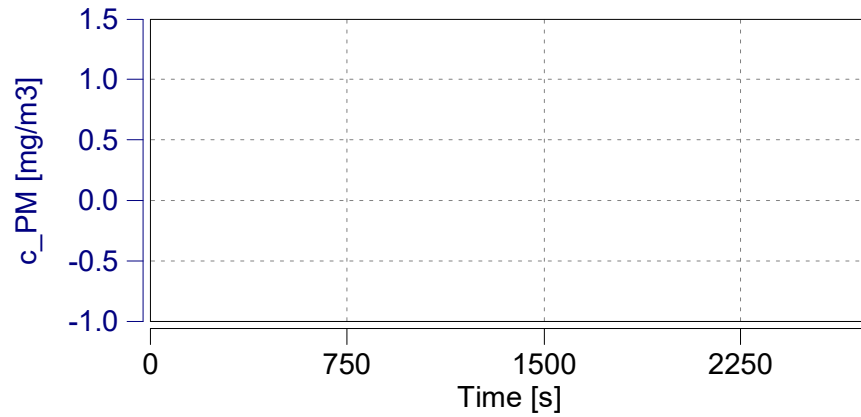
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

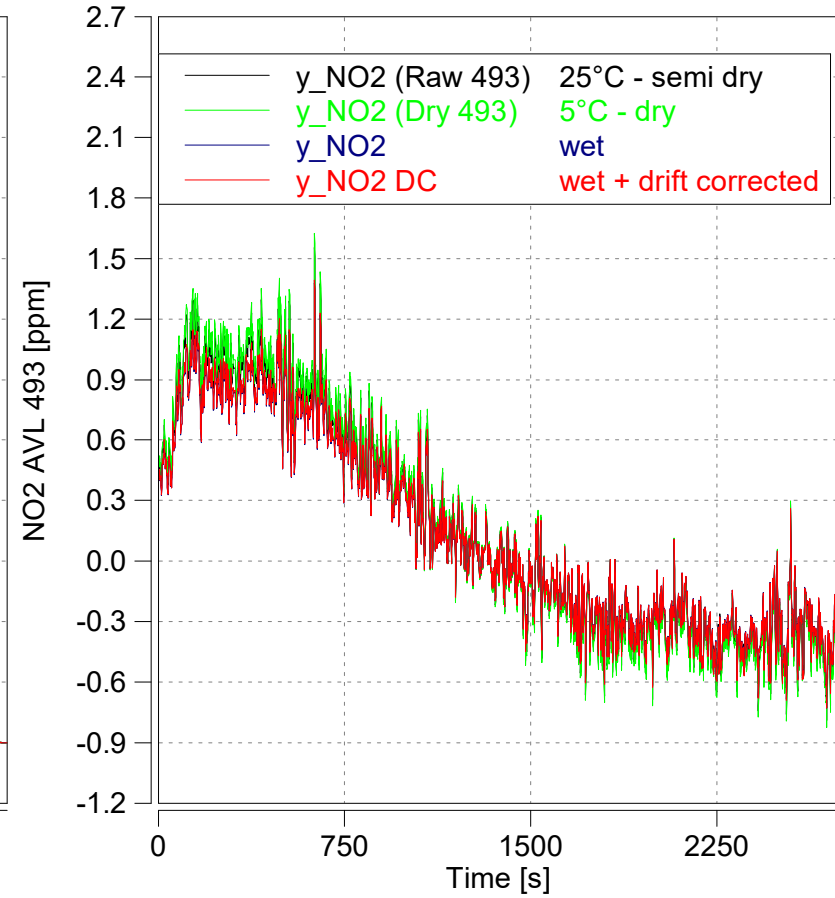
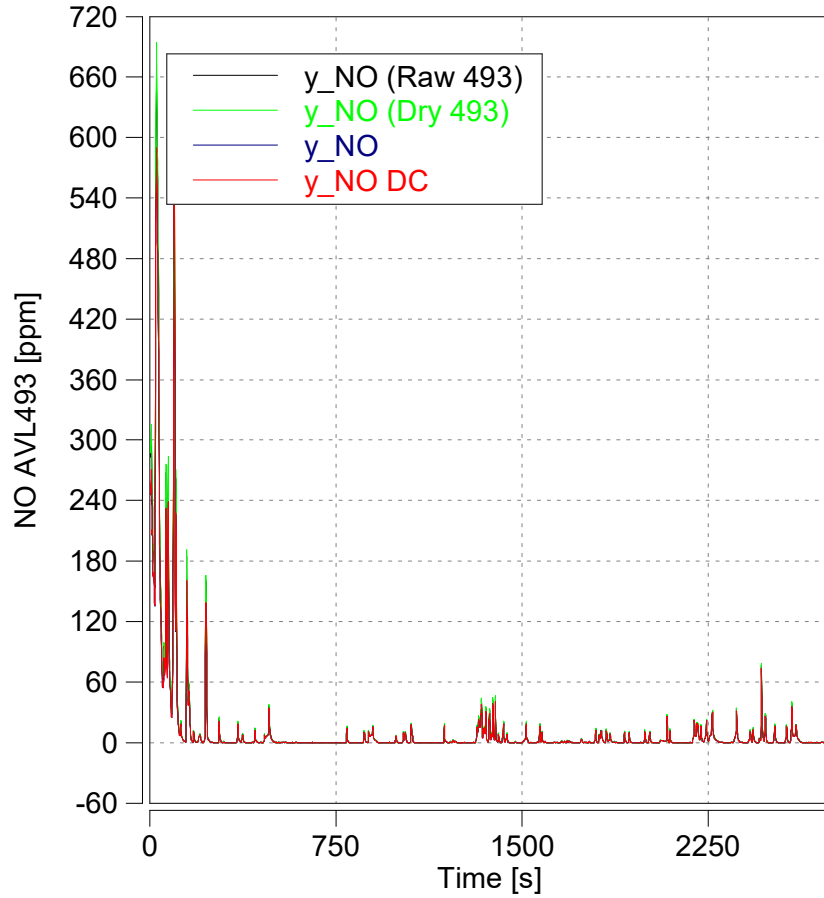
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



Concerto Version: 480 Build 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

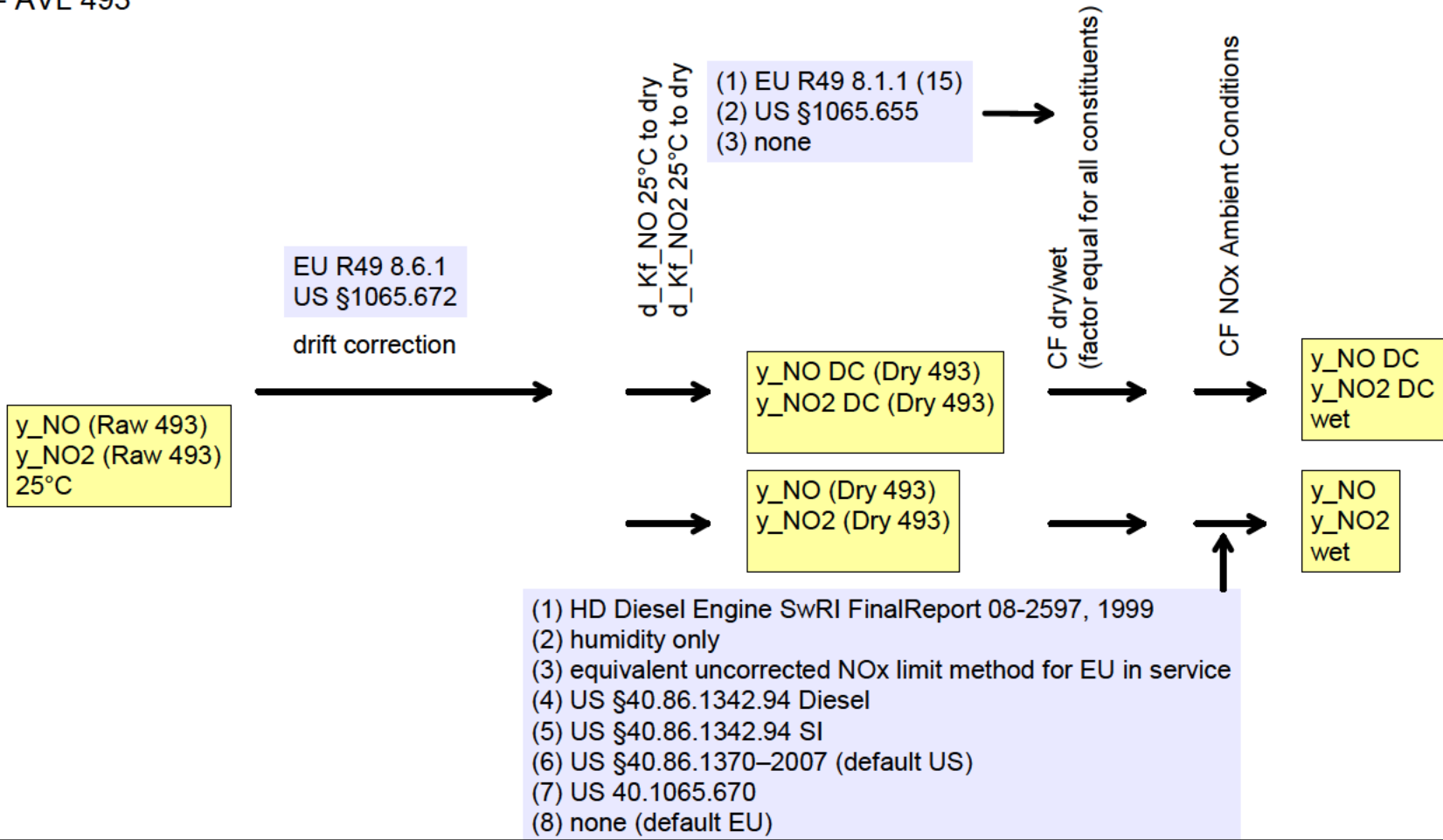


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

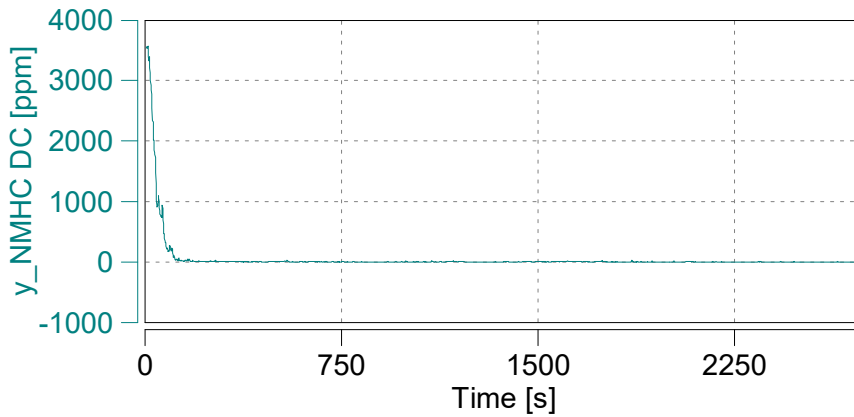
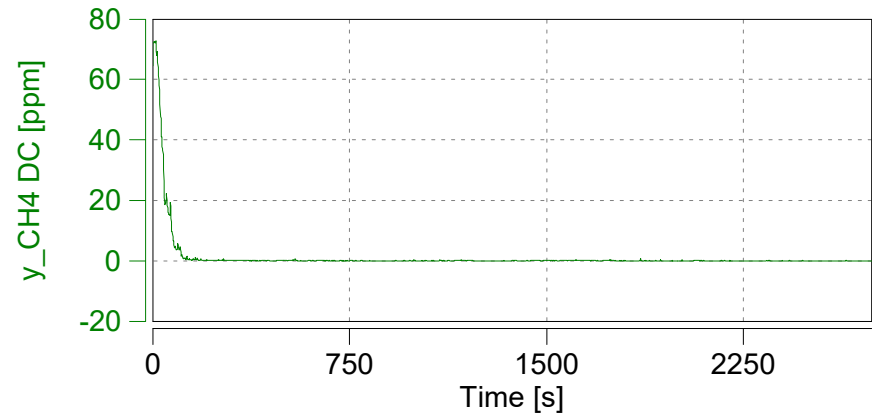
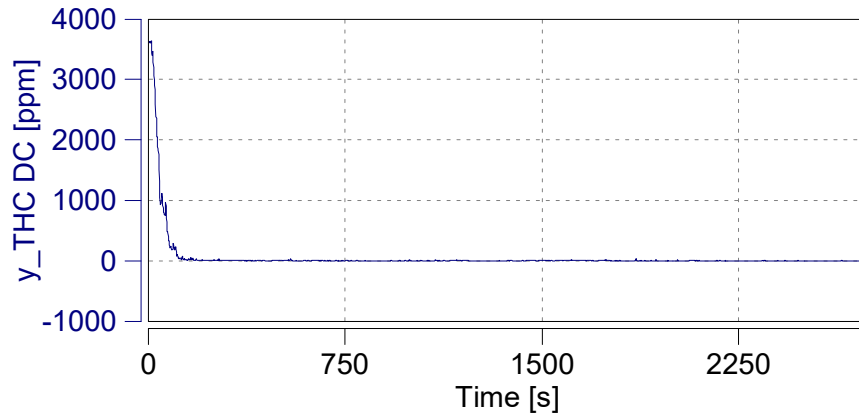
'Highway'

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

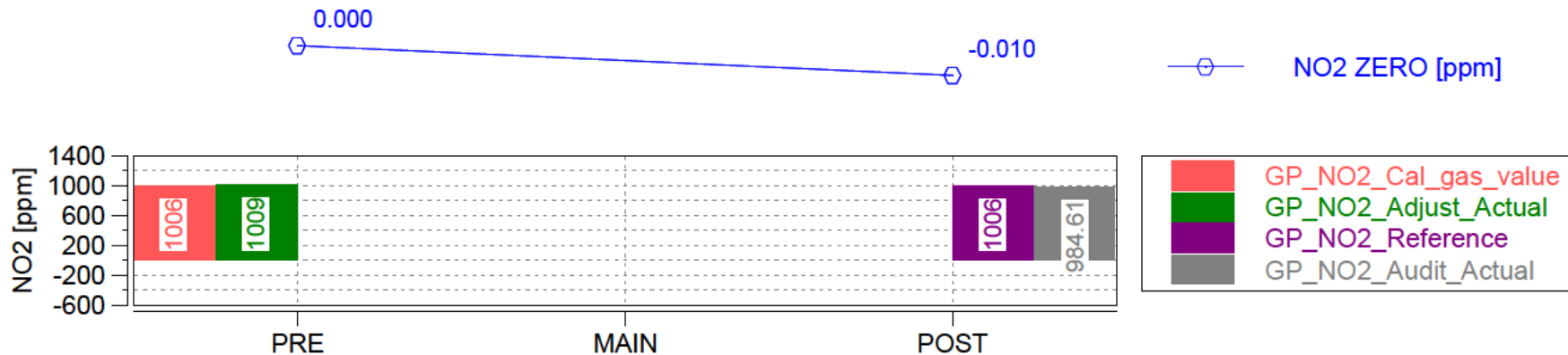
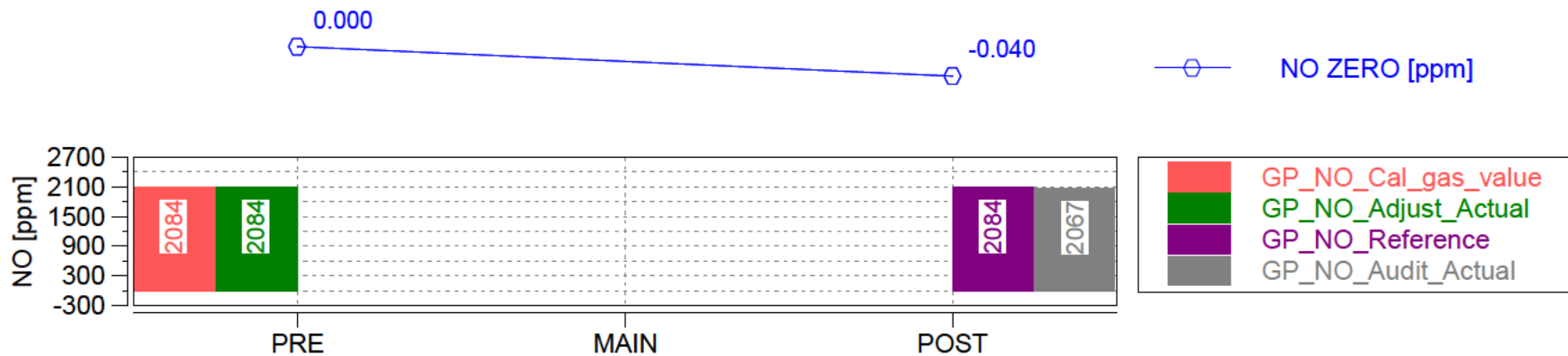
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Vehicle: R8 / 5.2 L

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

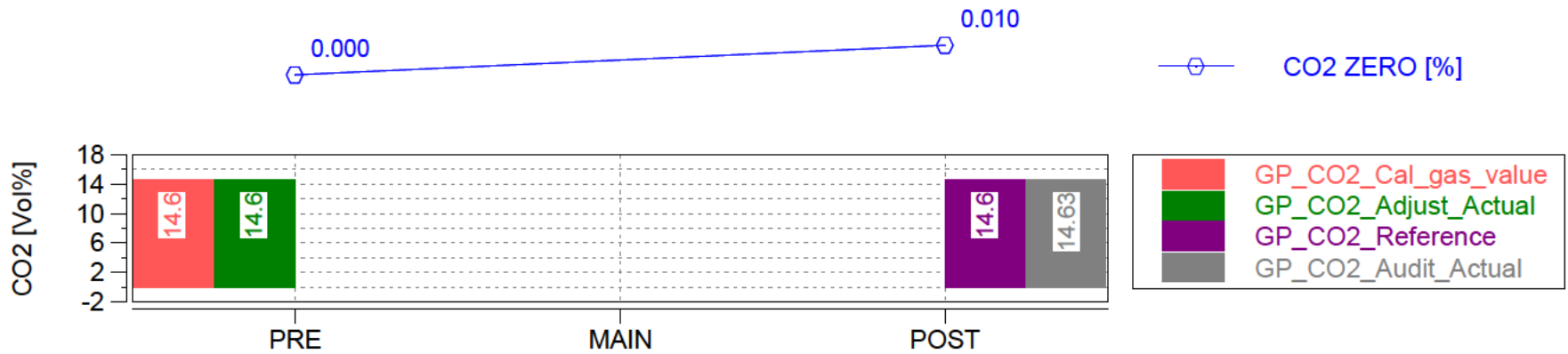
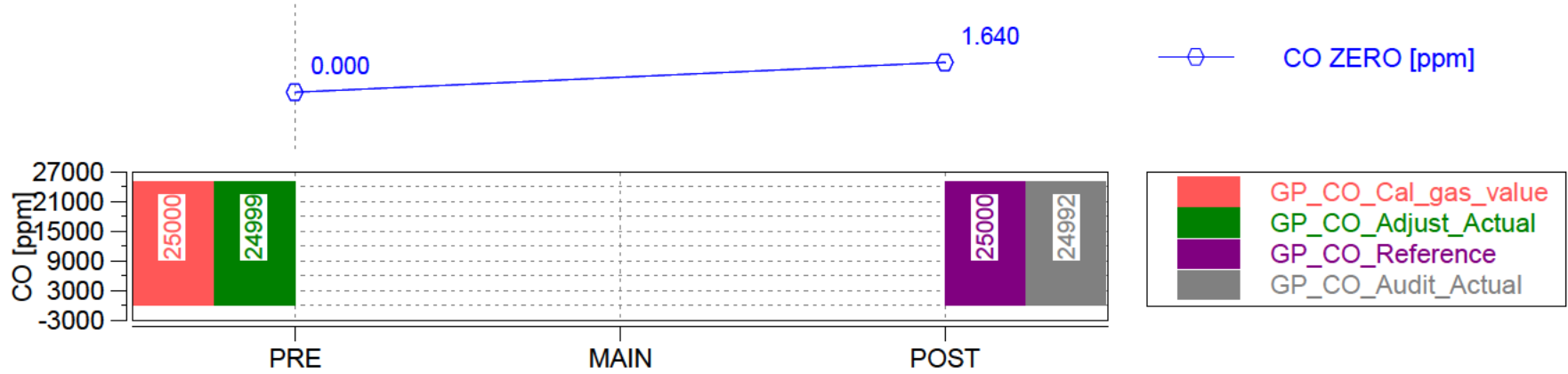
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: R8 / 5.2 L

Engine: /

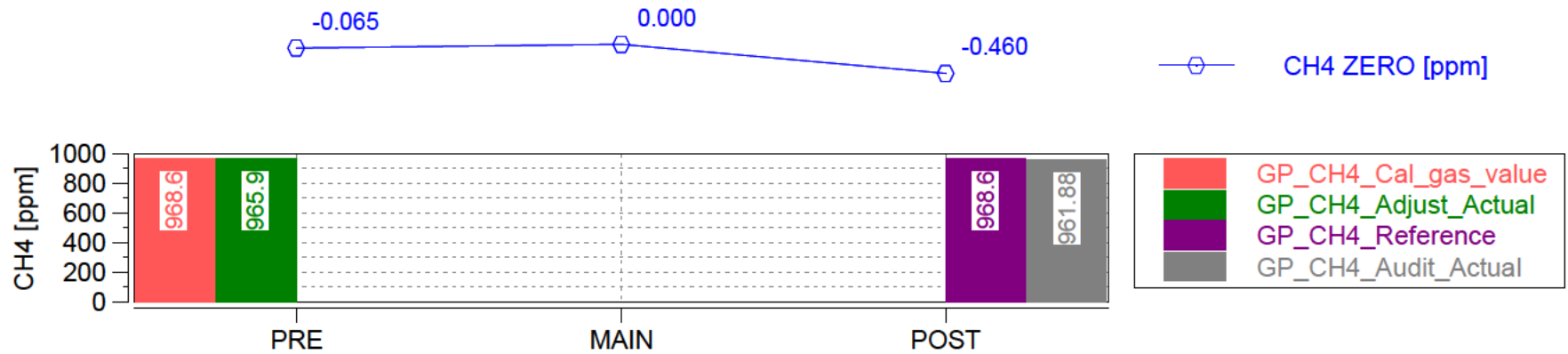
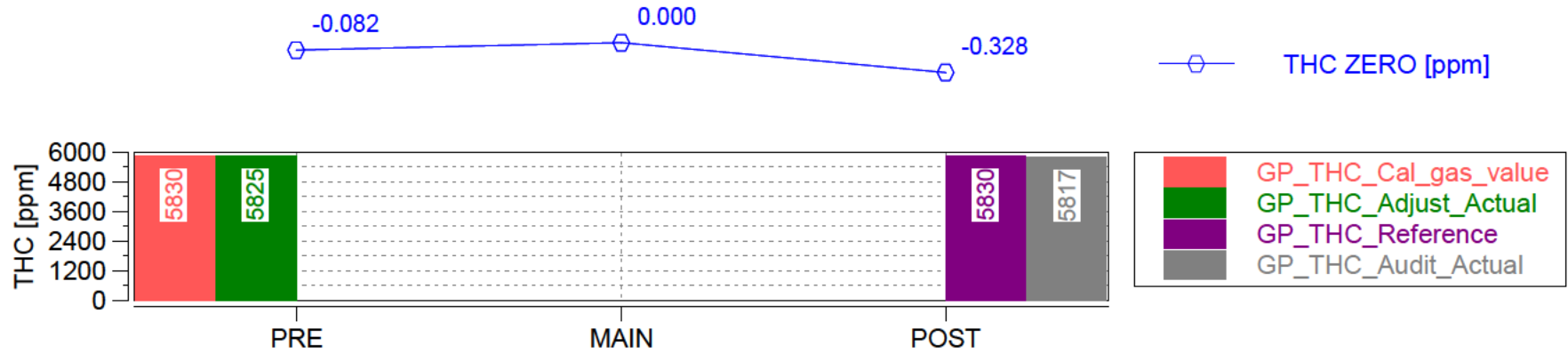
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



Concerto Version: 480 Build 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

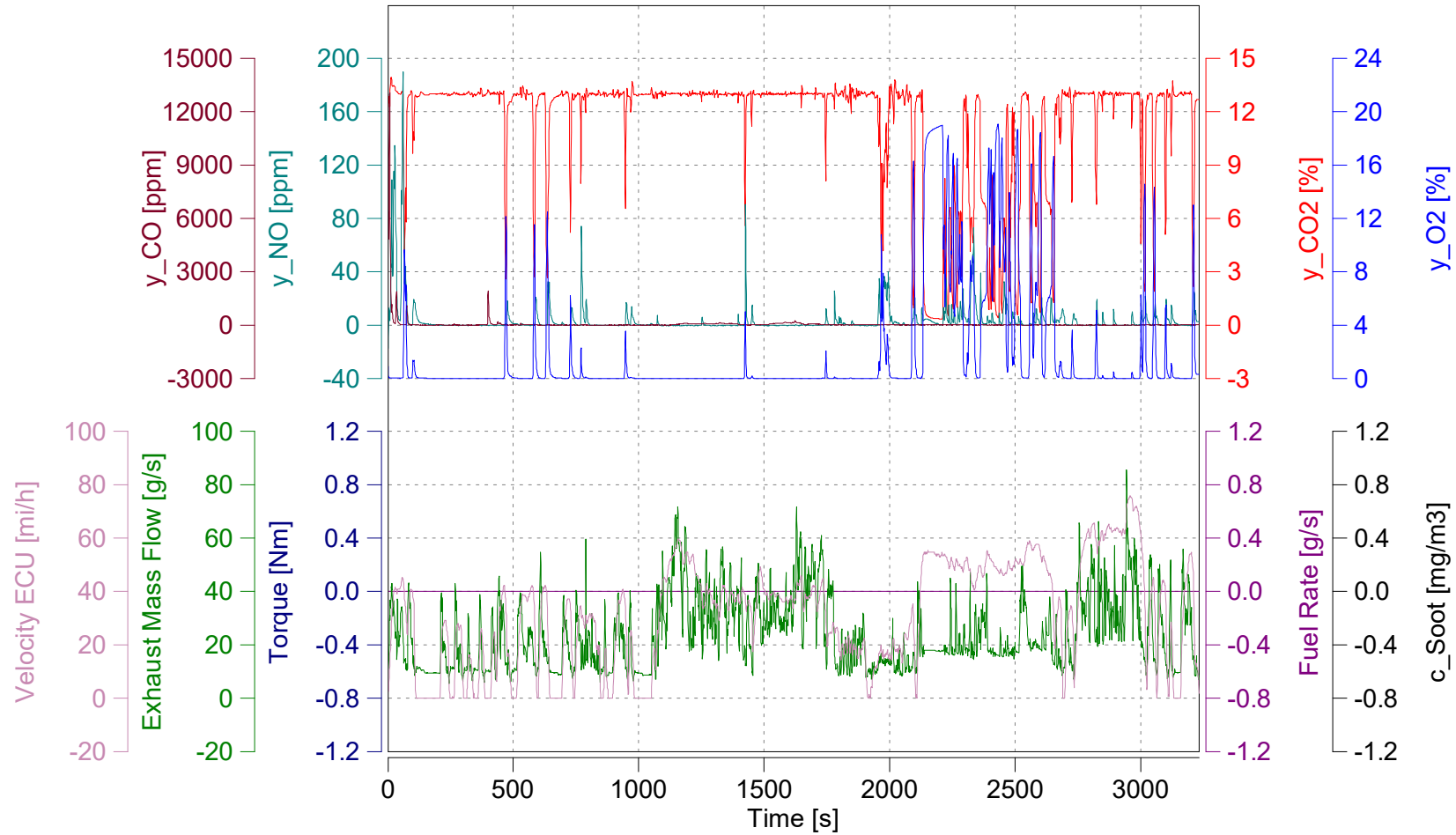
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Vehicle: R8 / 5.2 L

Engine: /

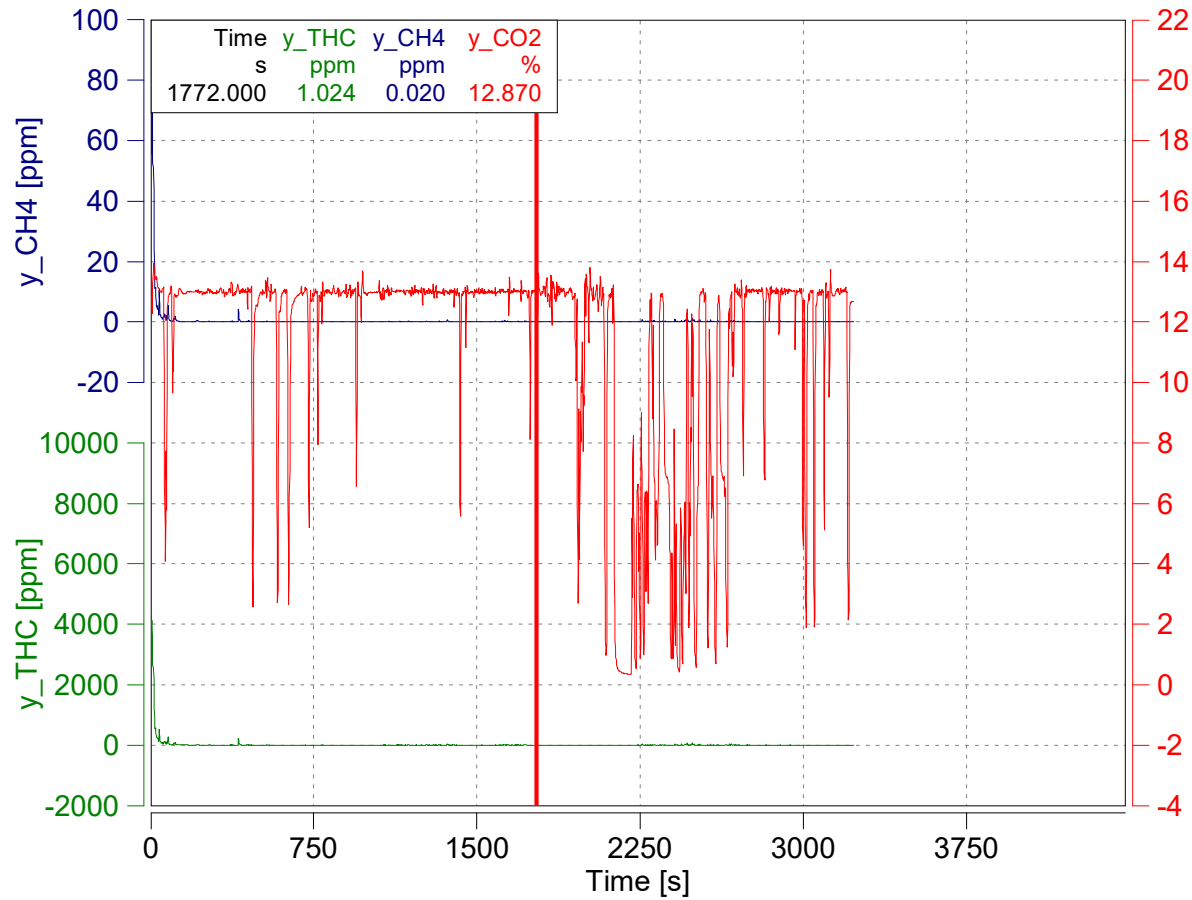
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



Concerto Version: 480 Build 316, Serial Number: 1120
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

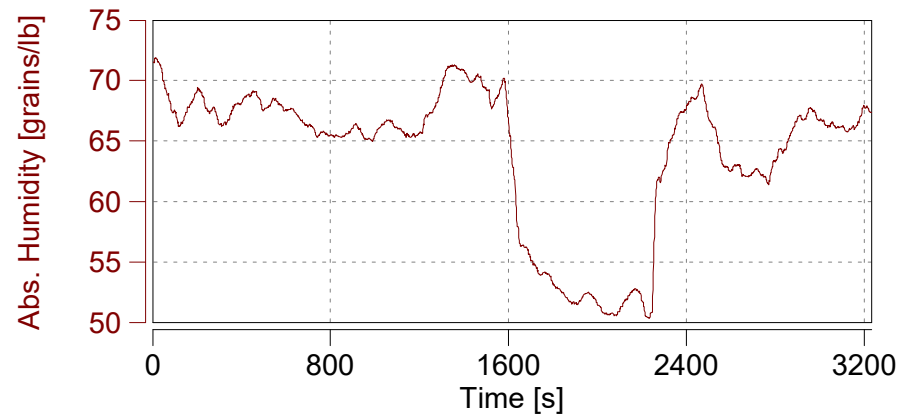
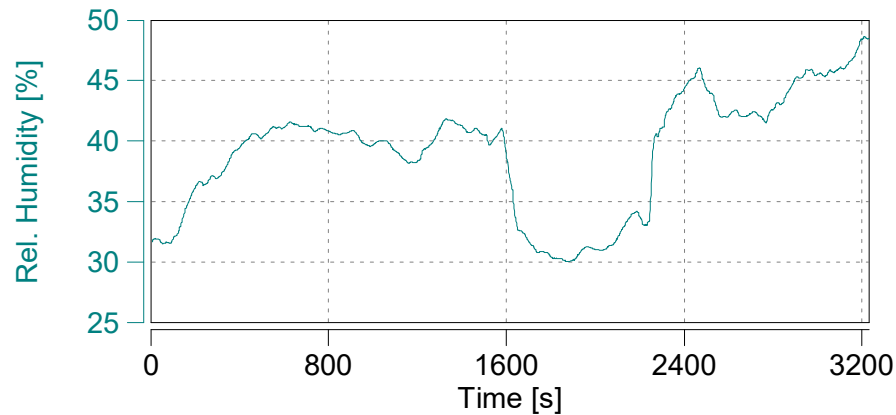
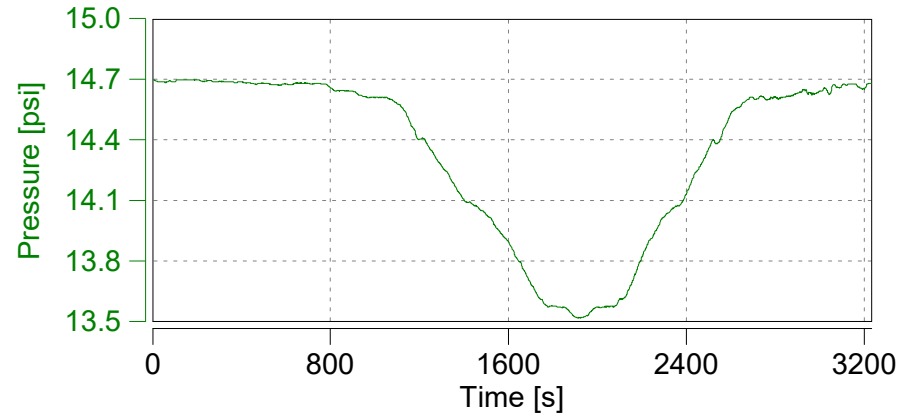
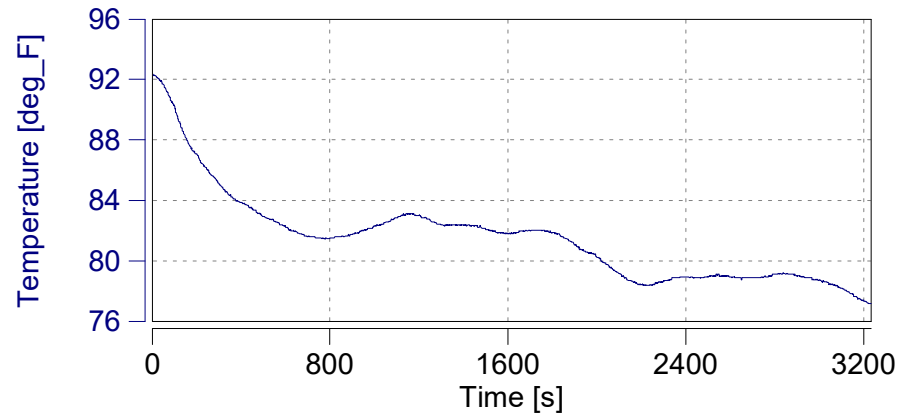


Absolute Time Shifts

y_THC	s	-0.9
y_CH4	s	-1.1

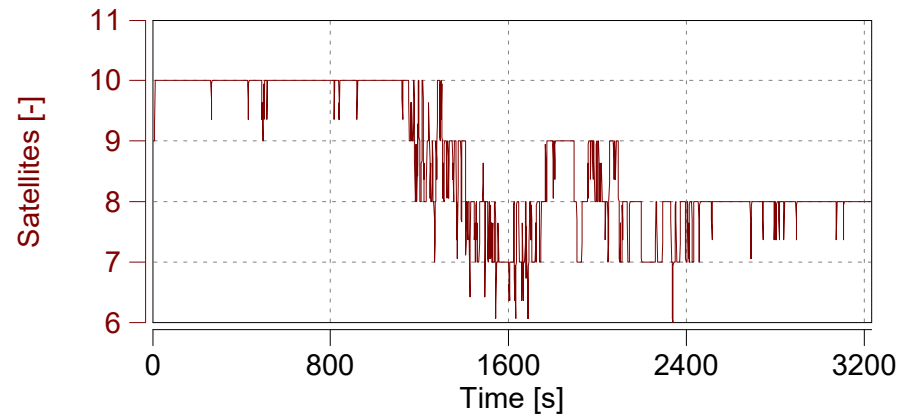
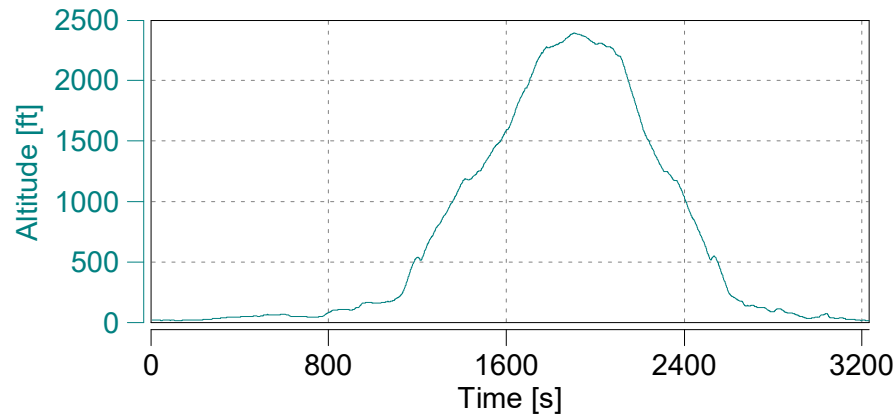
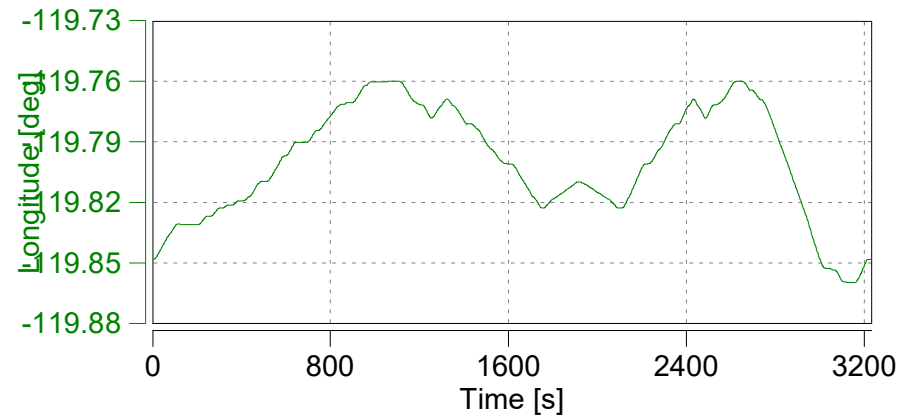
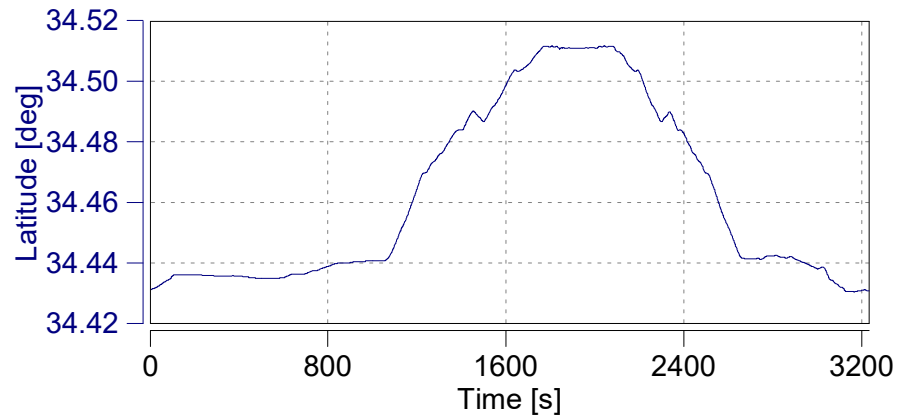
Reset Time Shifts in Plot

Apply Current Values



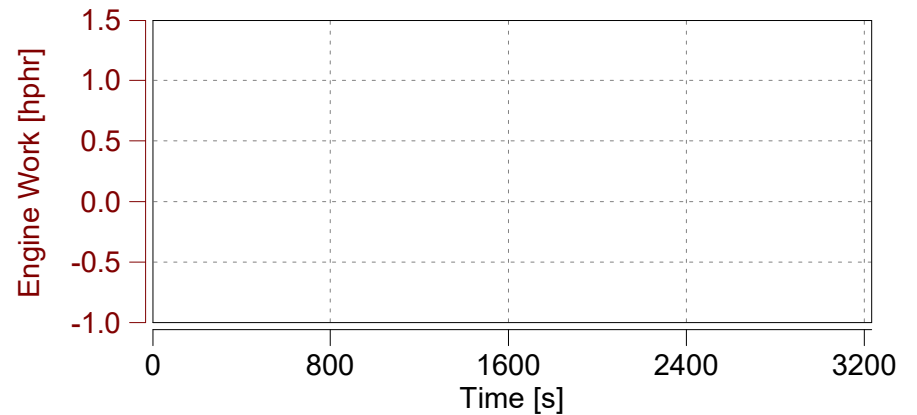
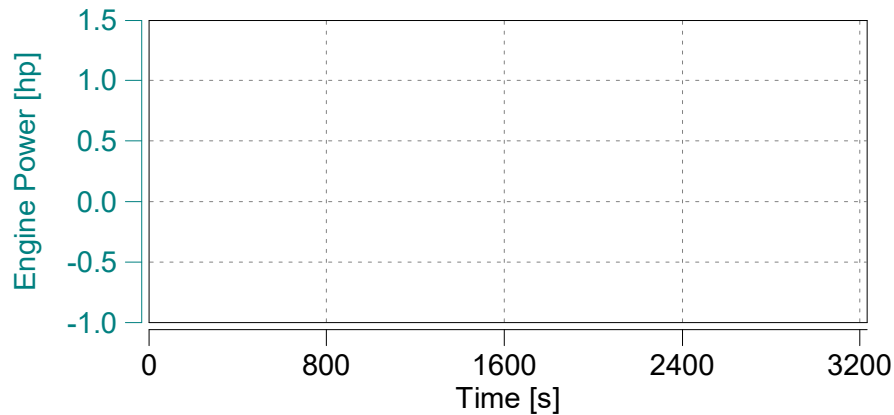
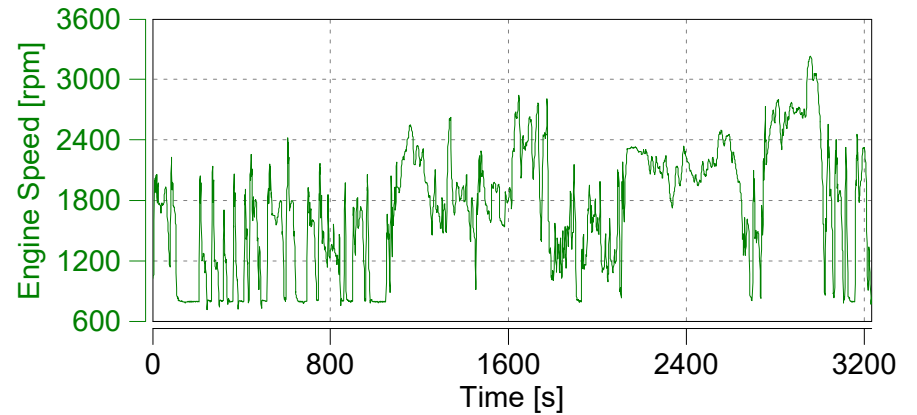
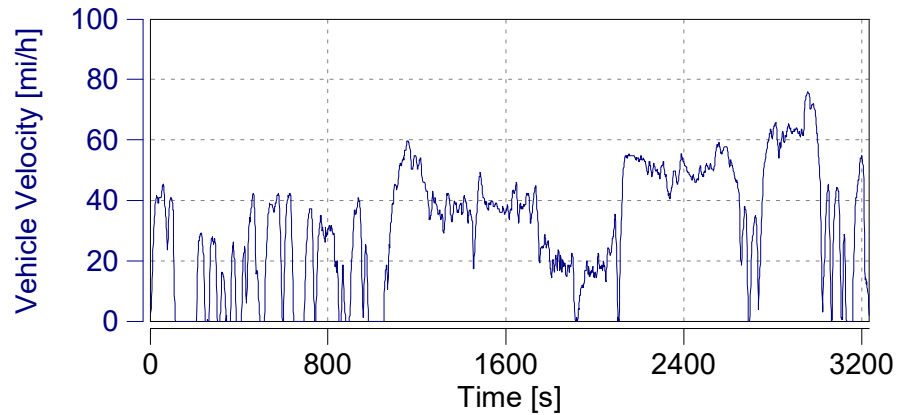
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

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



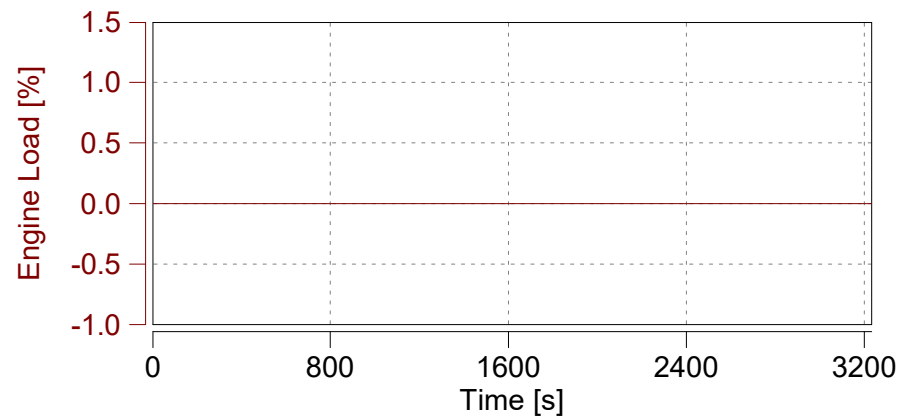
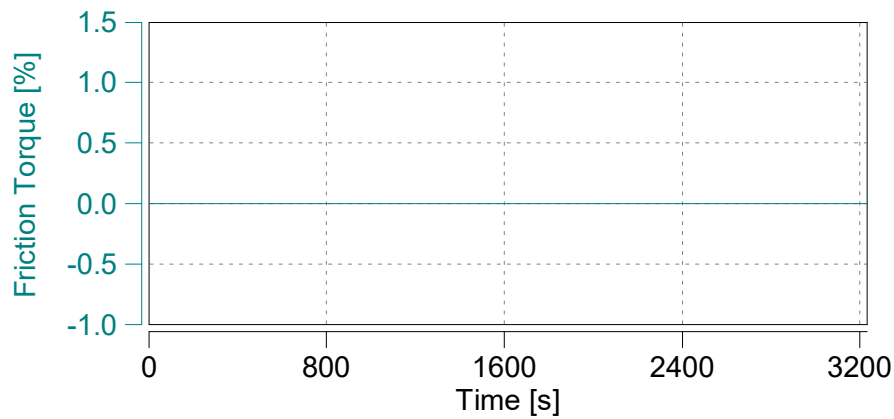
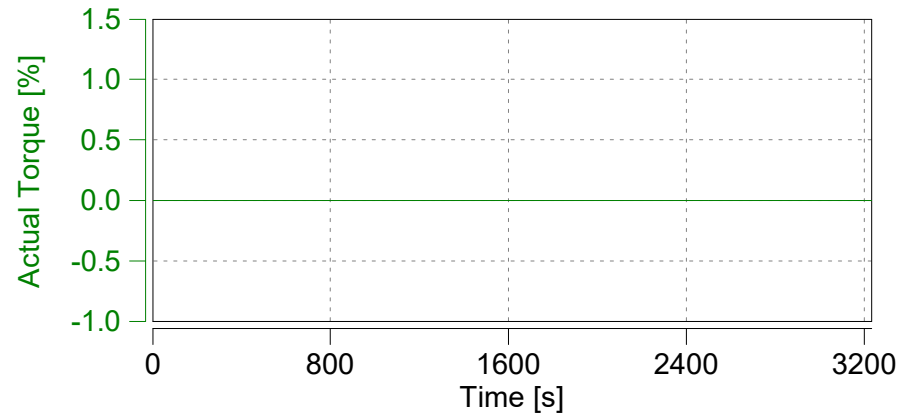
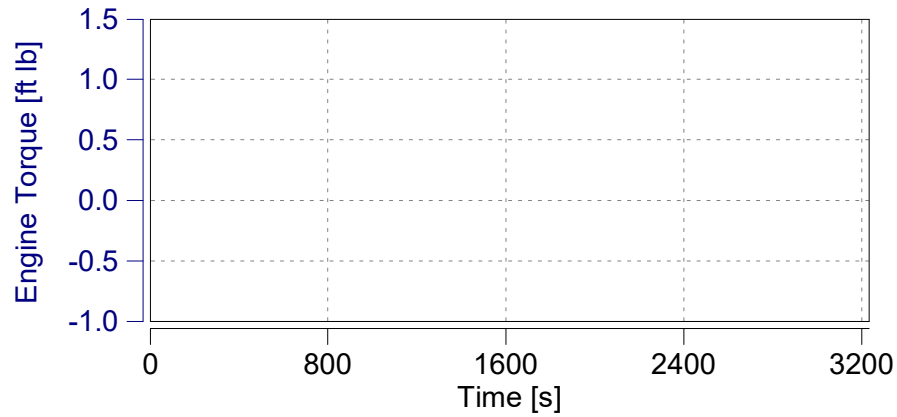
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



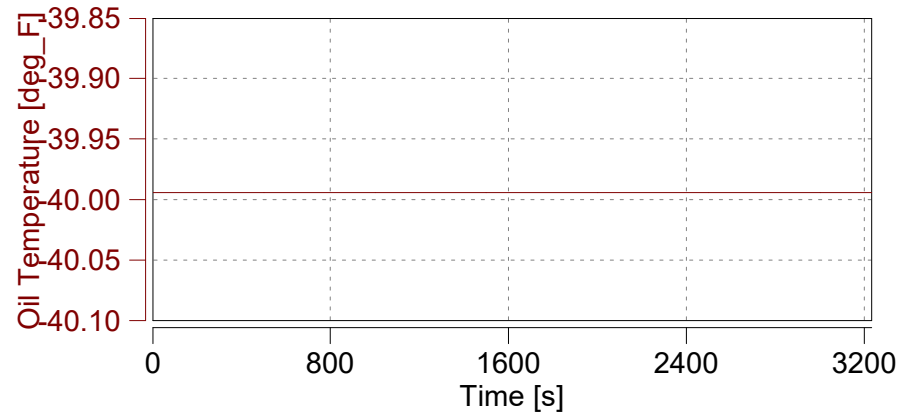
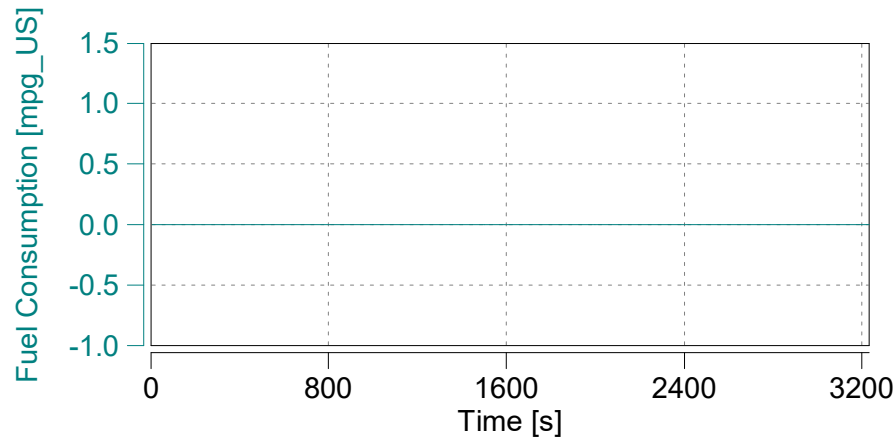
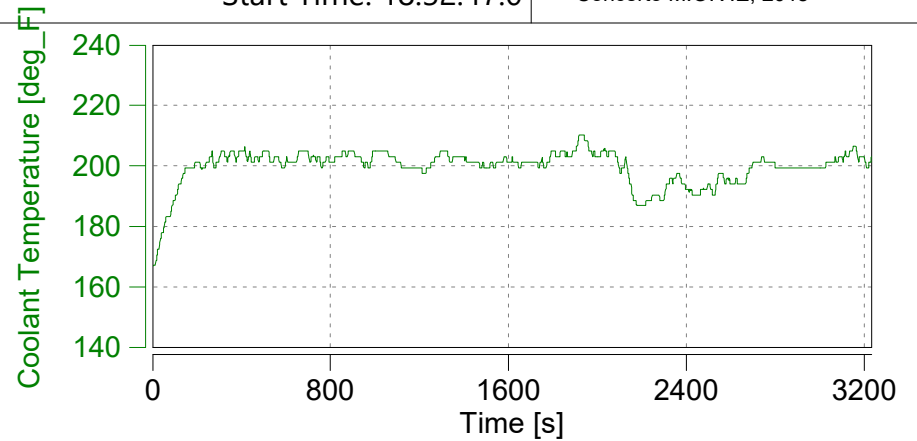
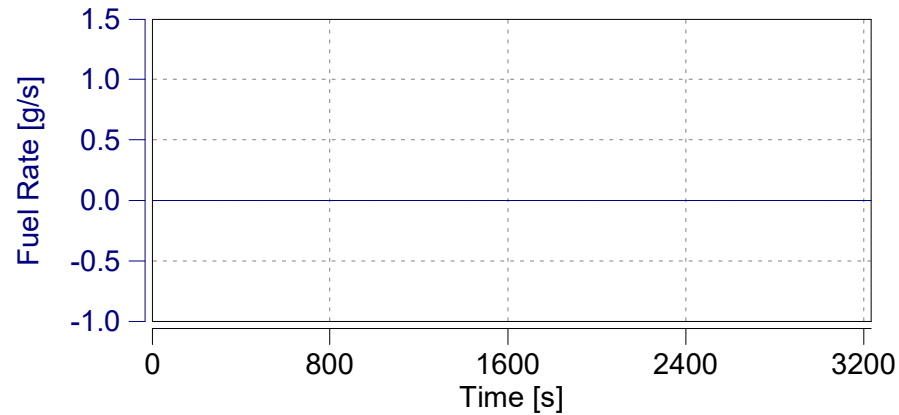
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



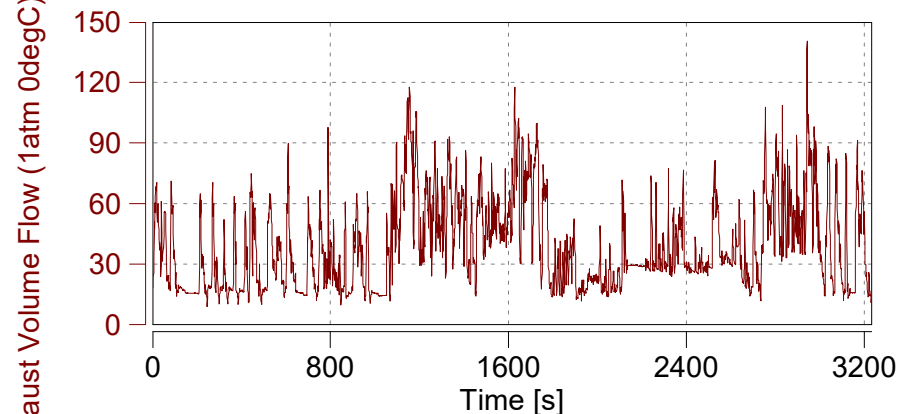
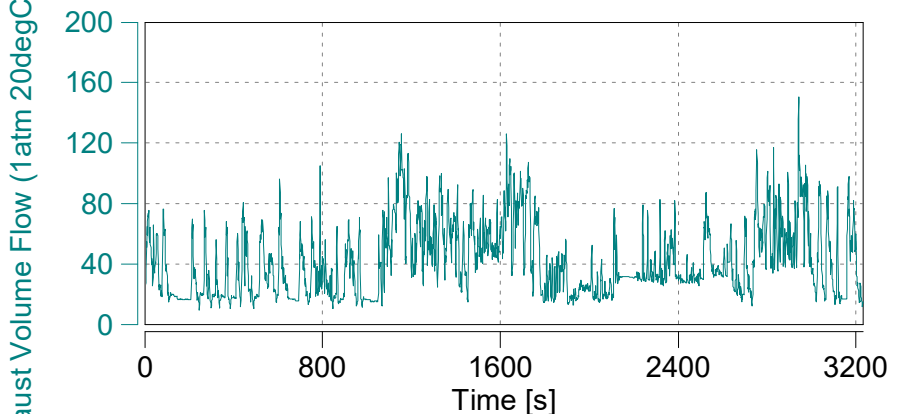
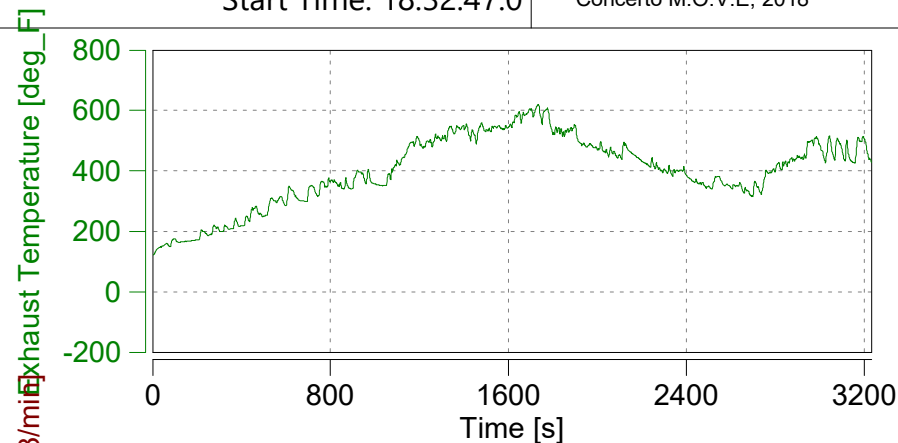
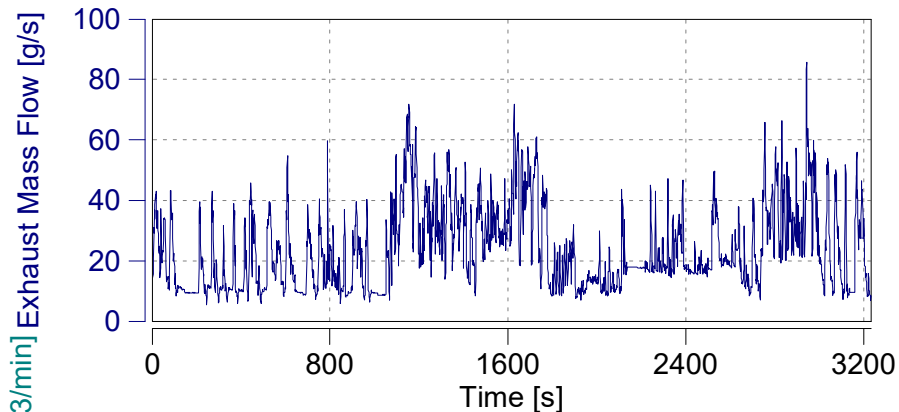
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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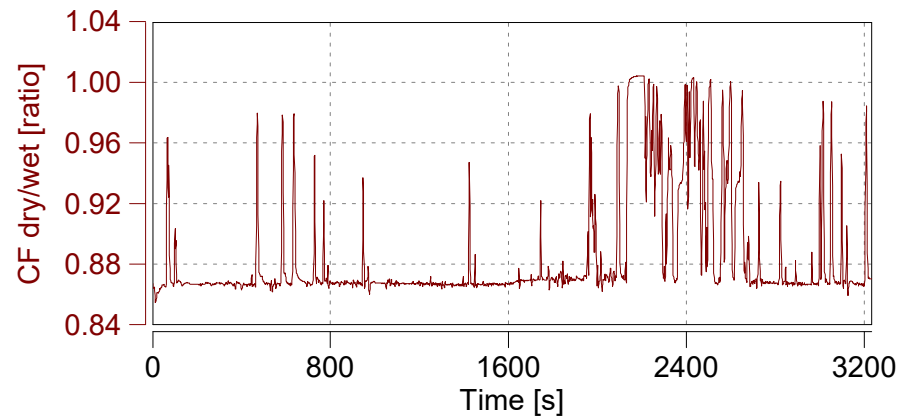
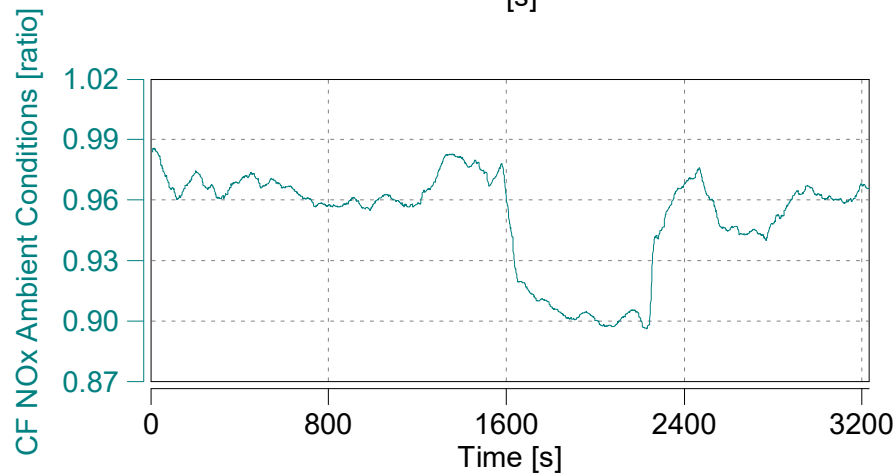
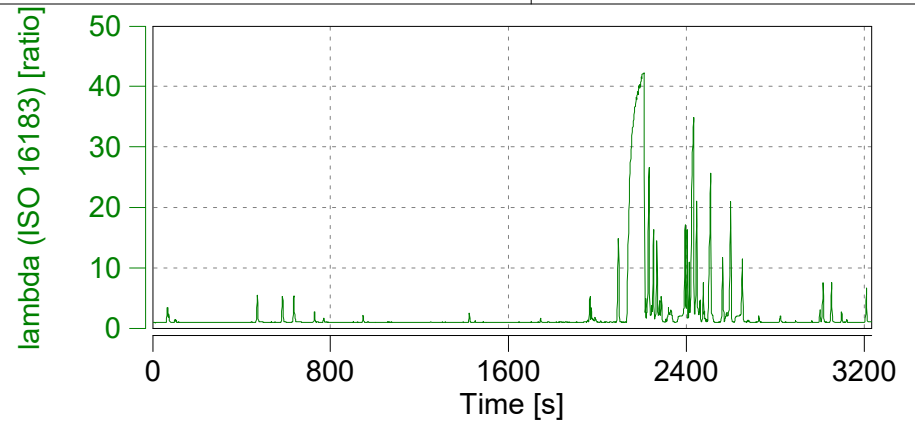
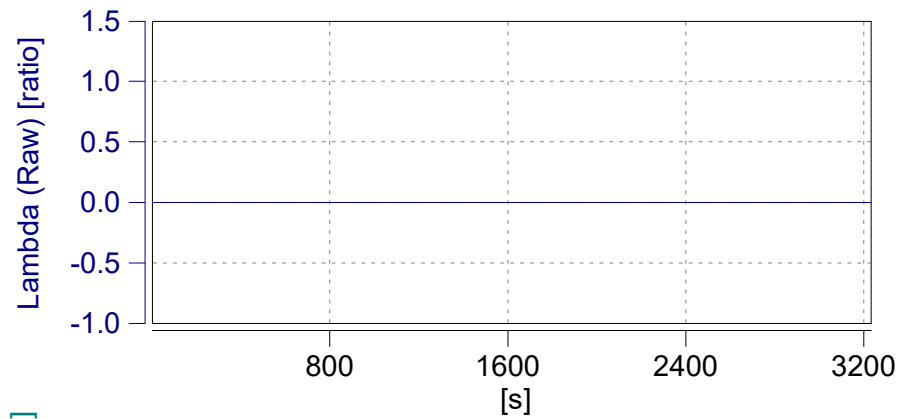
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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

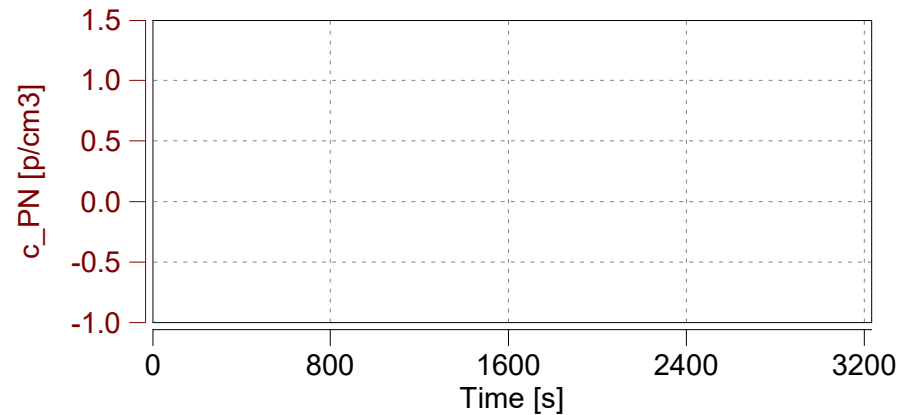
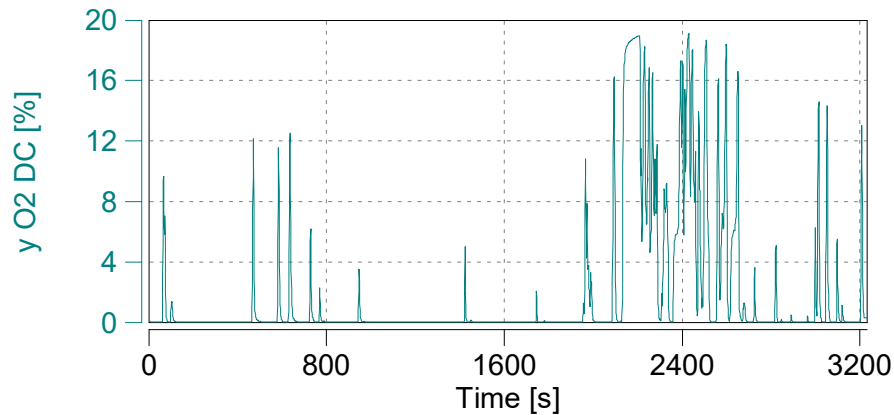
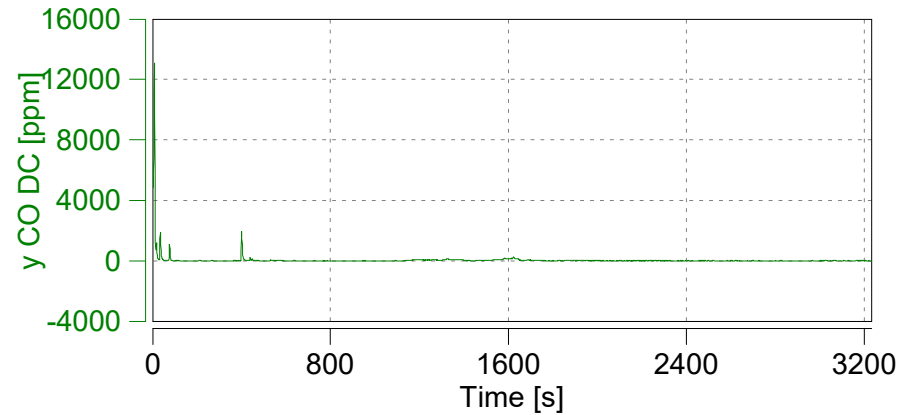
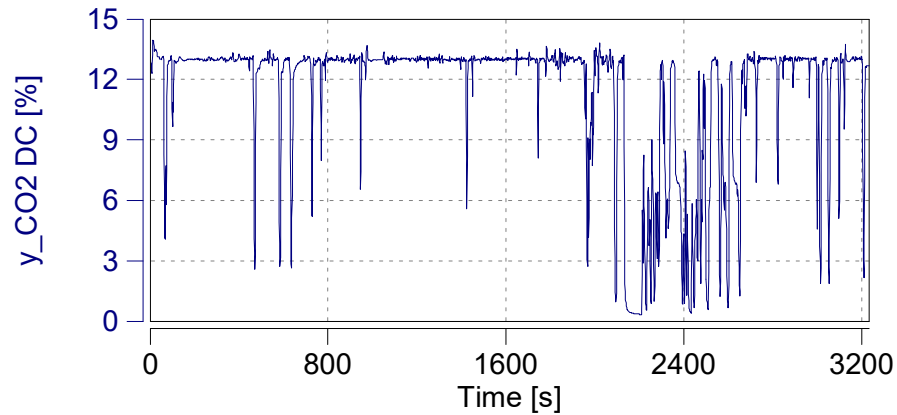
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Vehicle: R8 / 5.2 L

Engine: /

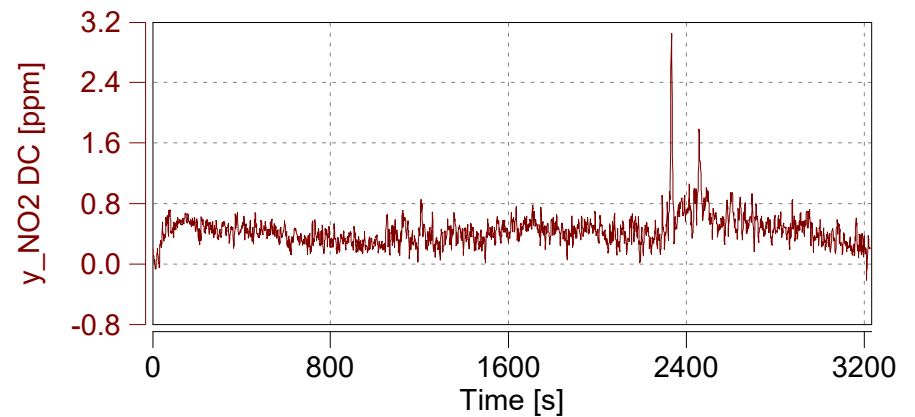
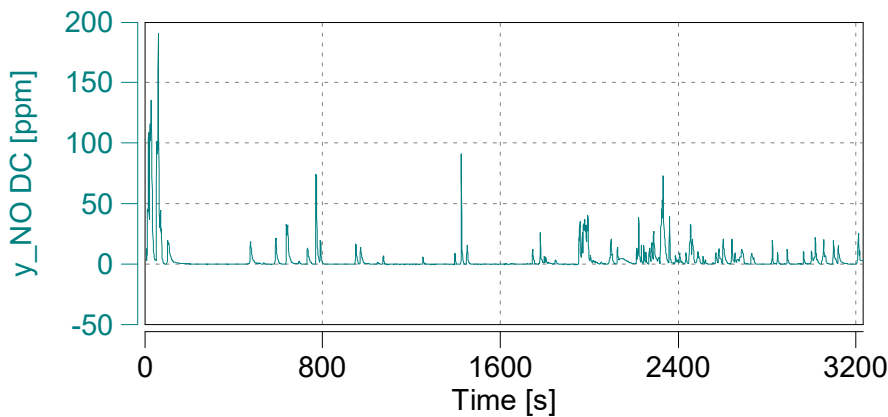
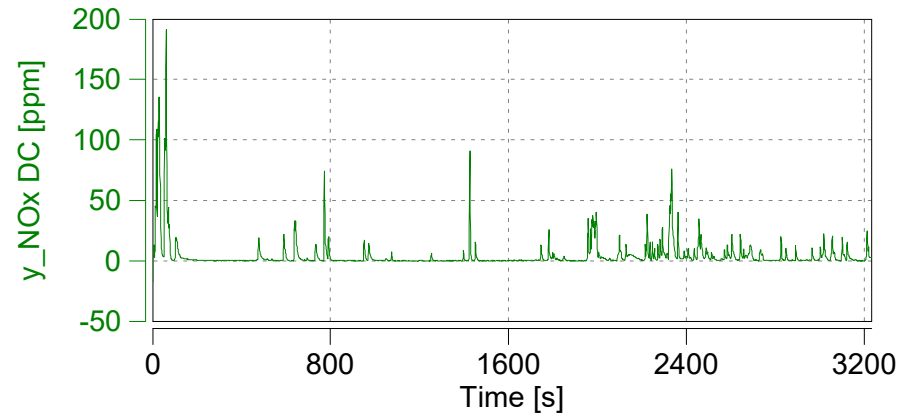
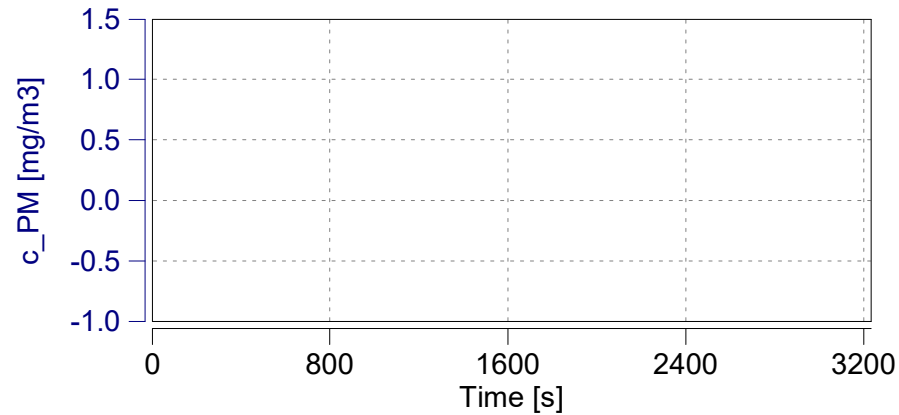
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



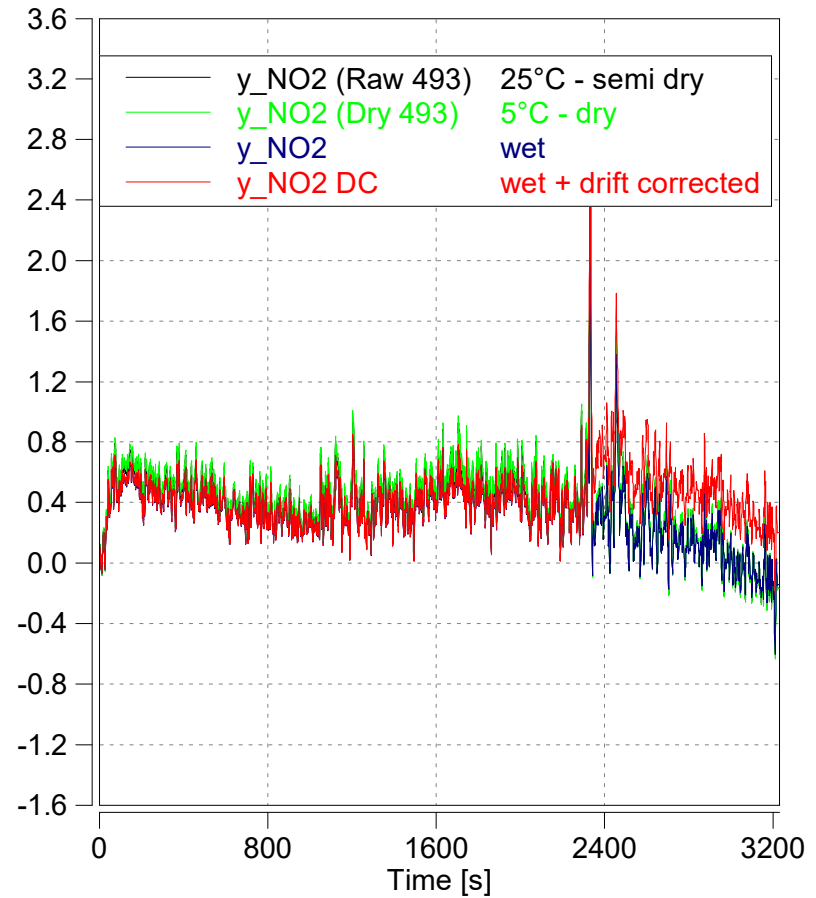
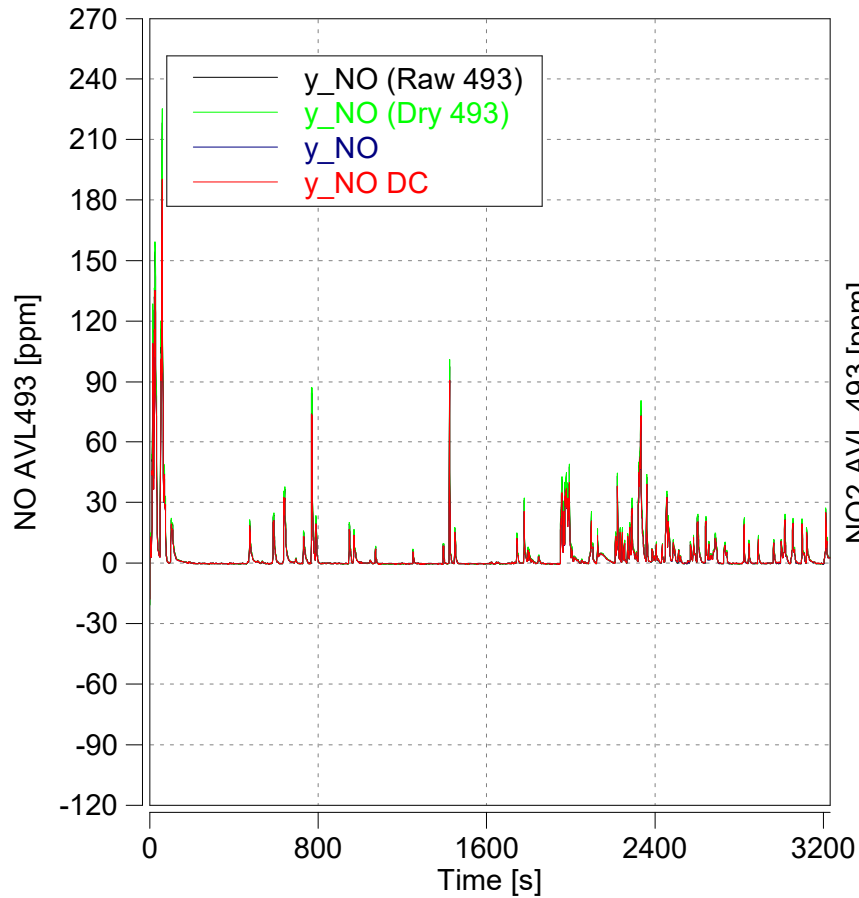
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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

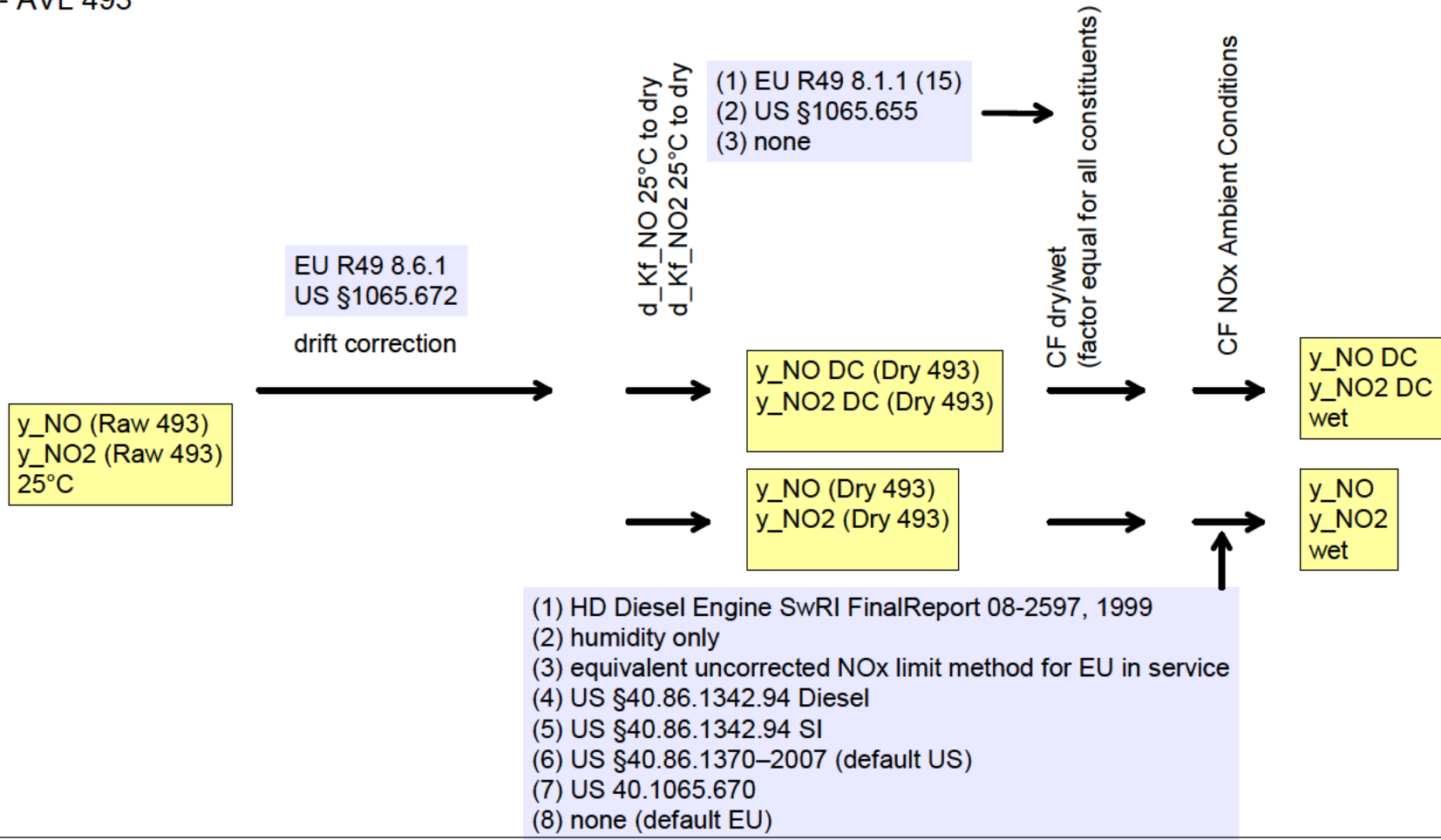


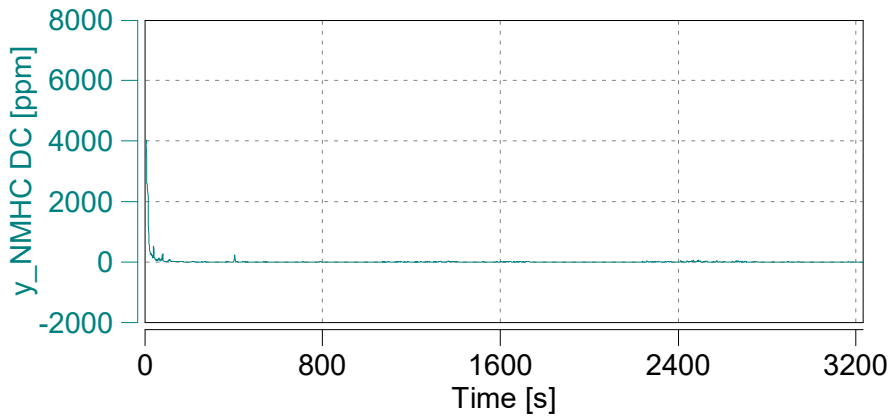
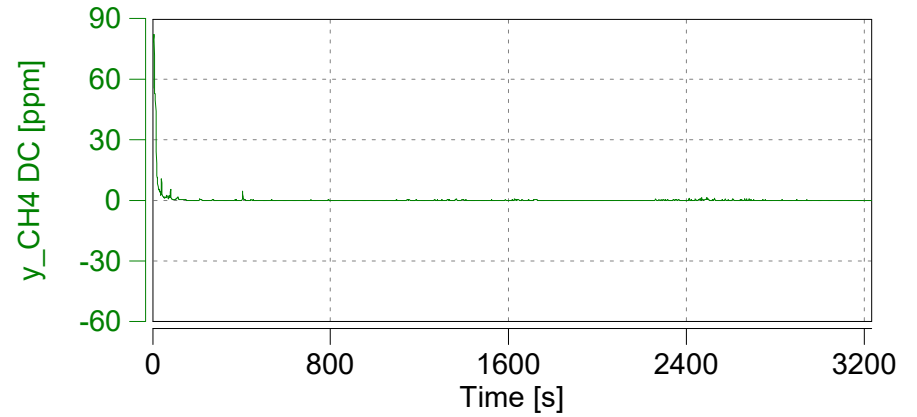
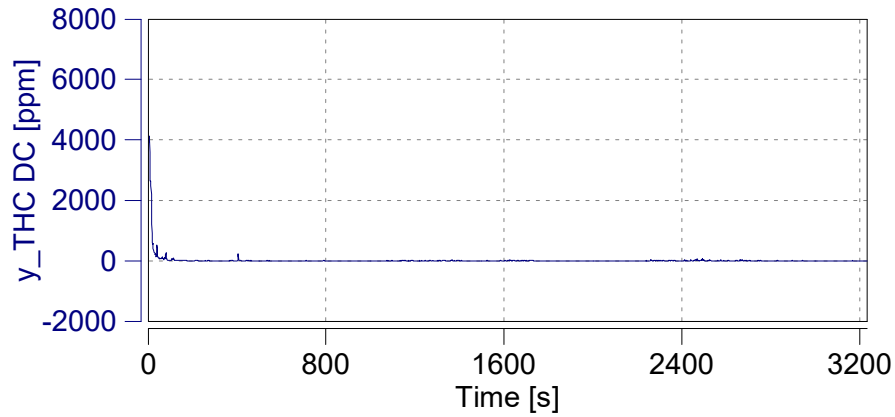
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Vehicle: R8 / 5.2 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493





Concerto Version: 480 Build 316, Serial Number: 1120

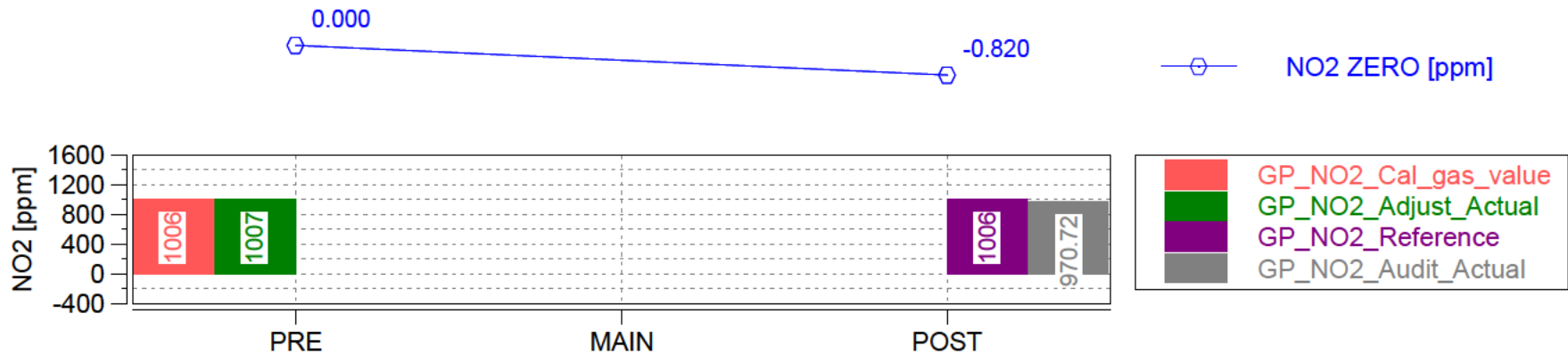
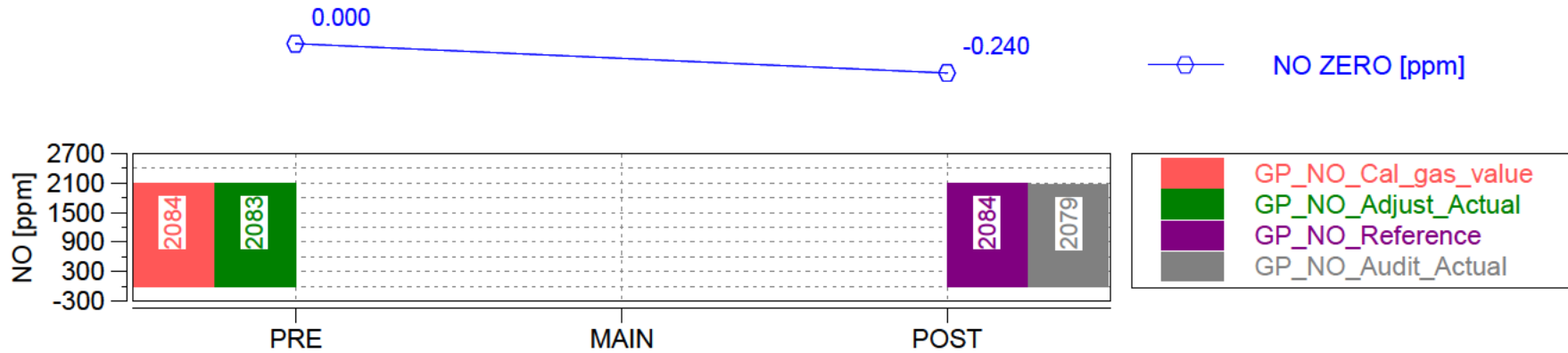
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Vehicle: R8 / 5.2 L

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

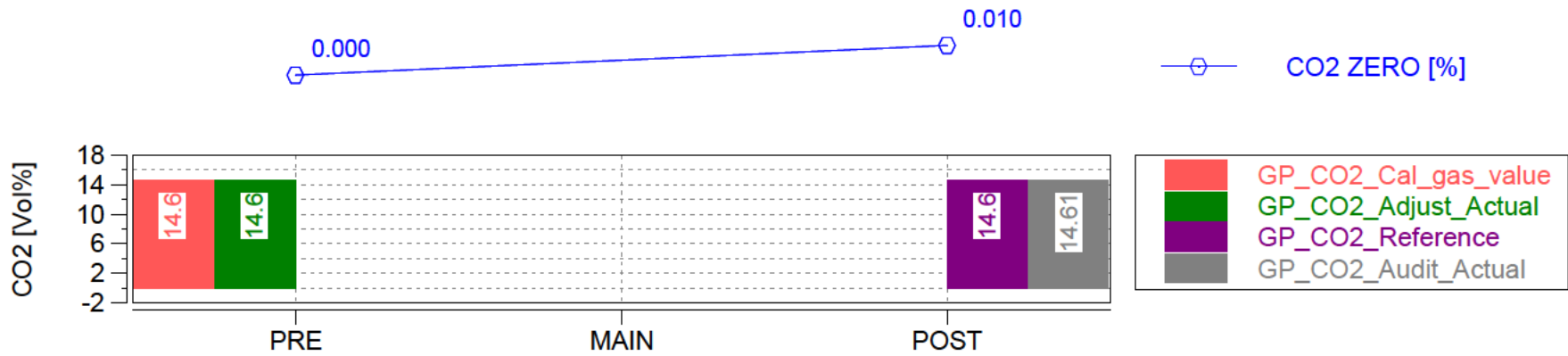
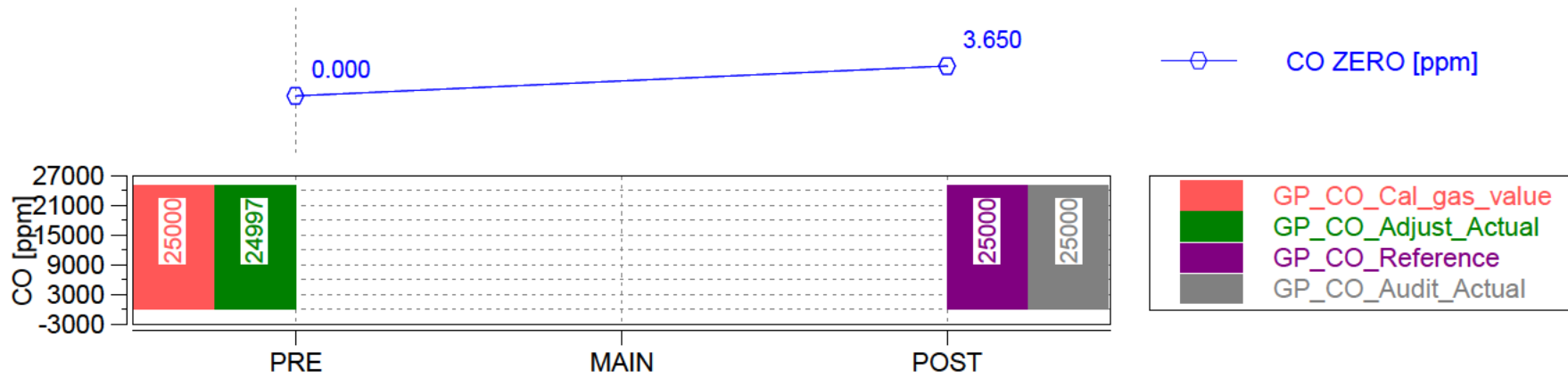
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Vehicle: R8 / 5.2 L

Engine: /

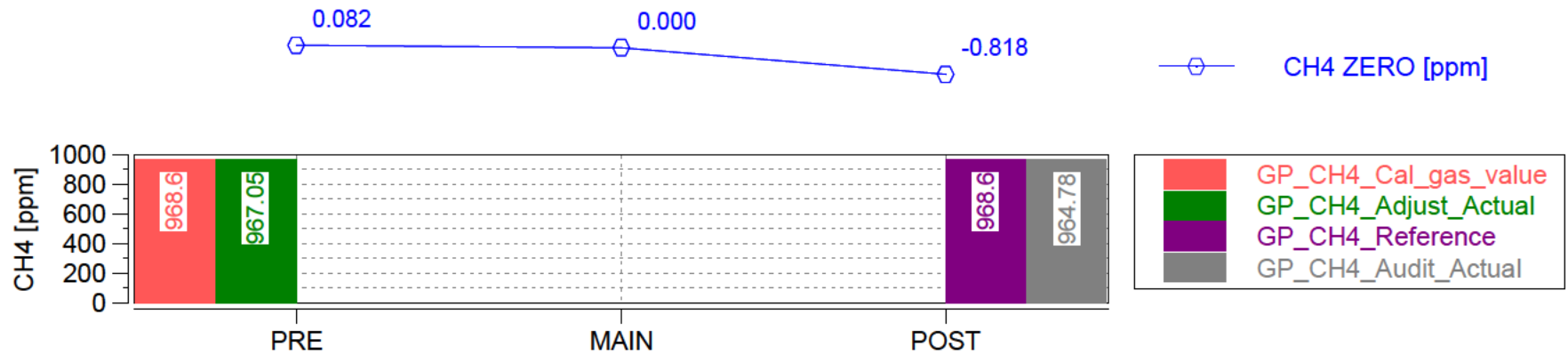
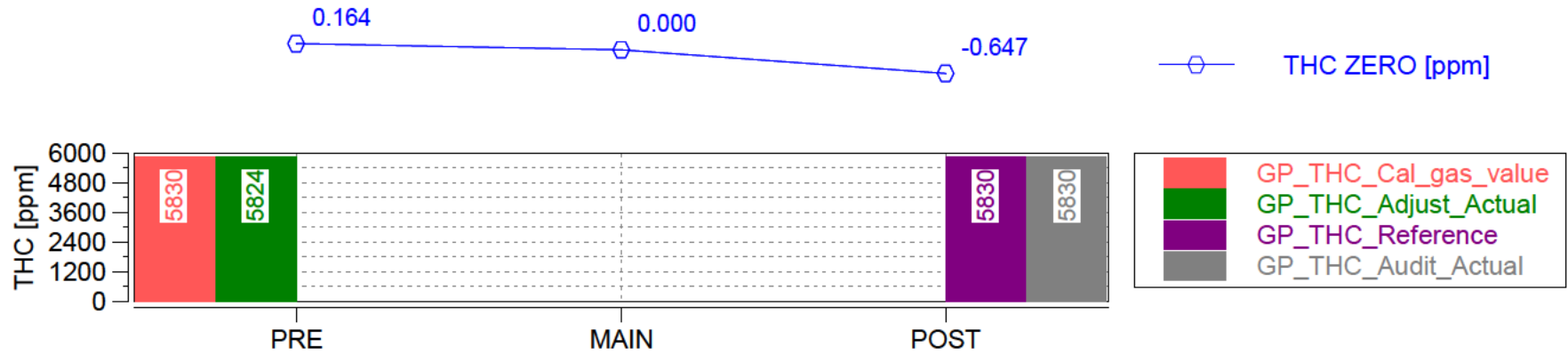
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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

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
			ave CO2	11.74517	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx	6.01860	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)	2.41	kg	ave Soot meas	n/a	mg/m3	BS NOx	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	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	0.00315	g	BS PN	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	0.85	gall	tot NMHC	0.00291	g			
Trip Fuel Cons. Volume US (ac)	0.84	gall	tot CH4	0.00007	g	DS CO2	449.57493	g/mi
			tot CO	4.45661	g	DS CO	0.27625	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2	7252.81411	g	DS THC	0.00020	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO (d)	0.18059	g	DS NMHC	0.00018	g/mi
Trip Fuel Economy EU (ac)	18.93	mpg_US	tot NO2	0.01574	g	DS CH4	0.00000	g/mi
Trip Fuel Economy US (ac)	19.14	mpg_US	tot NOx	0.19633	g	DS NO (d)	0.01119	g/mi
			tot Soot	n/a	g	DS NO2	0.00098	g/mi
Trip Av. Eng. Speed	1088.75	rpm	tot Soot meas	n/a	g	DS NOx	0.01217	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	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	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	70.31	deg_F				FS NMHC	n/a	g/kg
Trip Av. Humidity	71.95	%	Trip Av. Veh. Speed	18.64592	mi/hr	FS CH4	n/a	g/kg
			Trip Velocity Zero	24.52648	%	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: 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

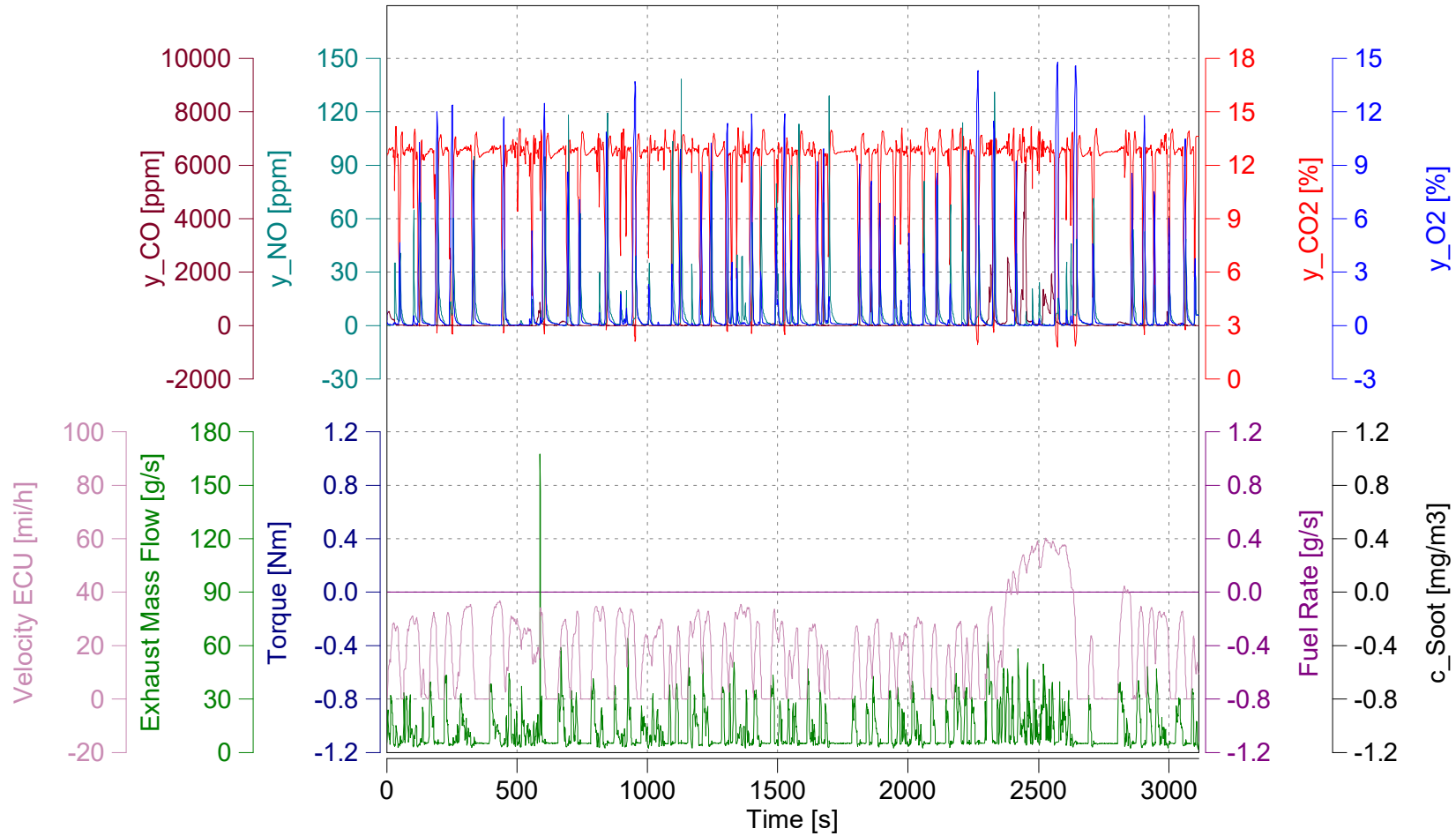
'City'

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

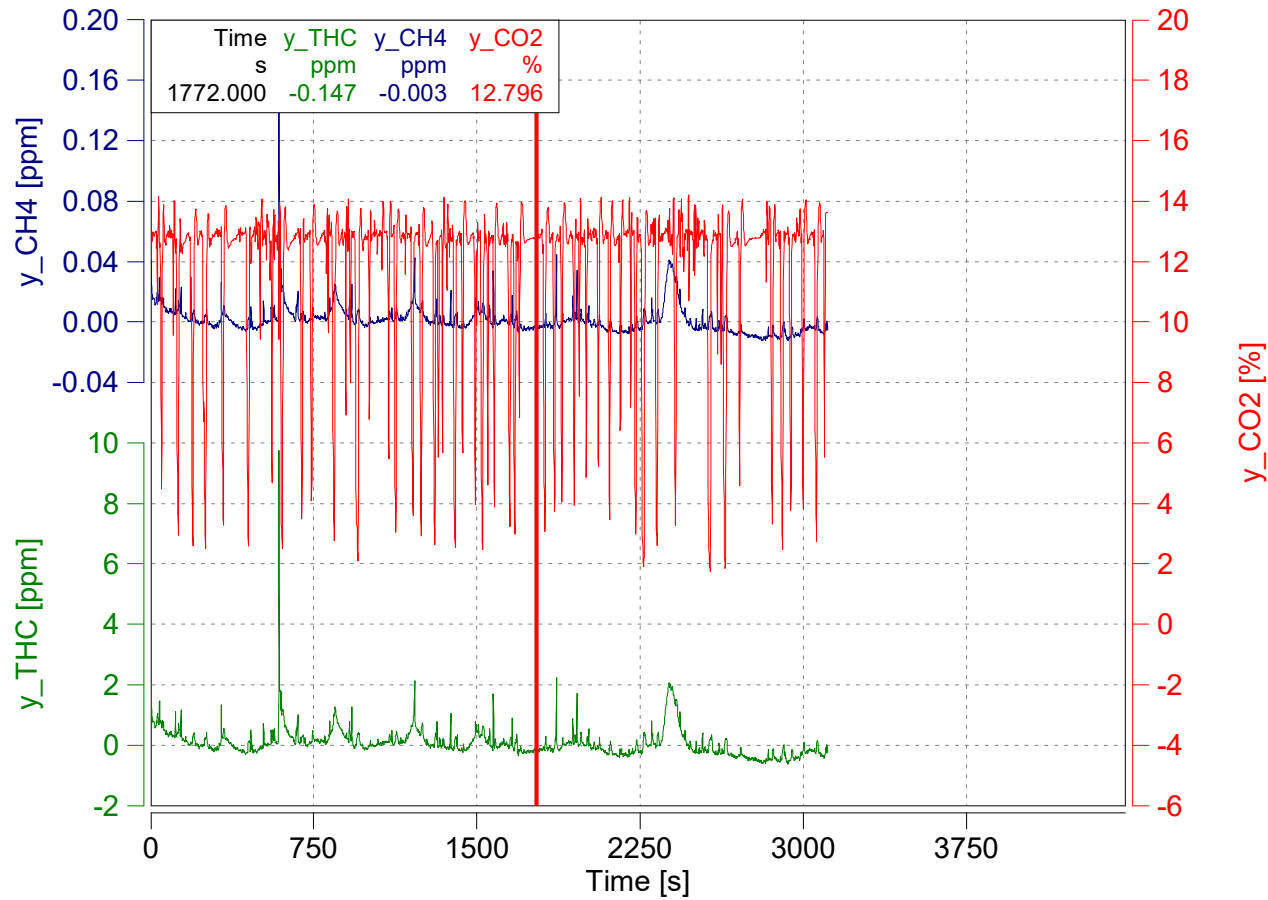
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Vehicle: SQ5 / 3.0 L

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
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: Ambient Conditions

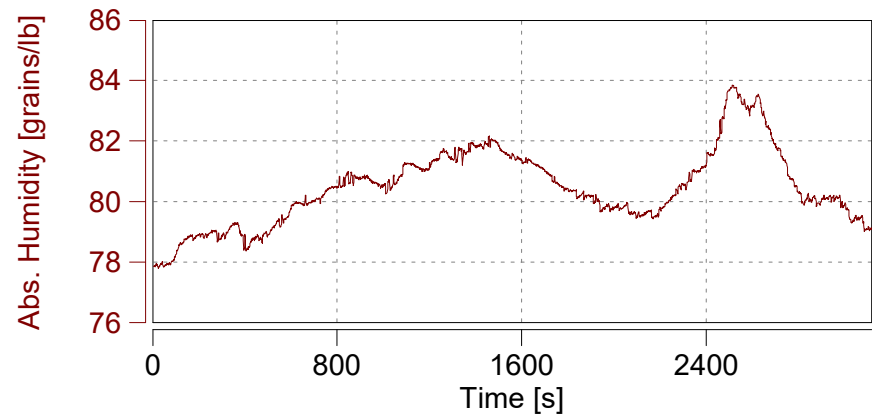
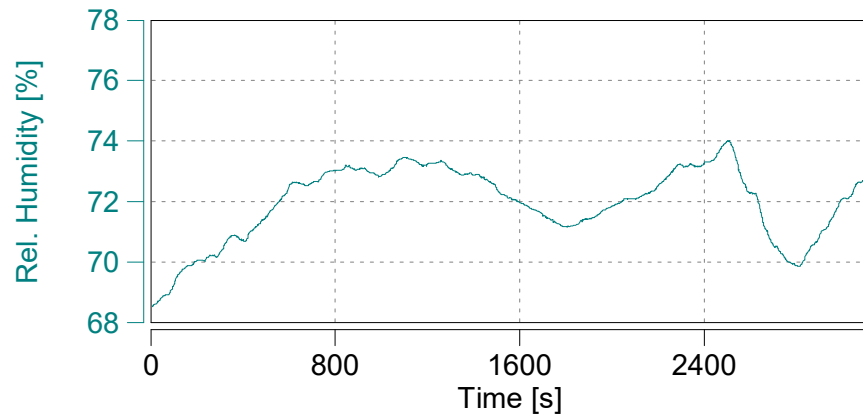
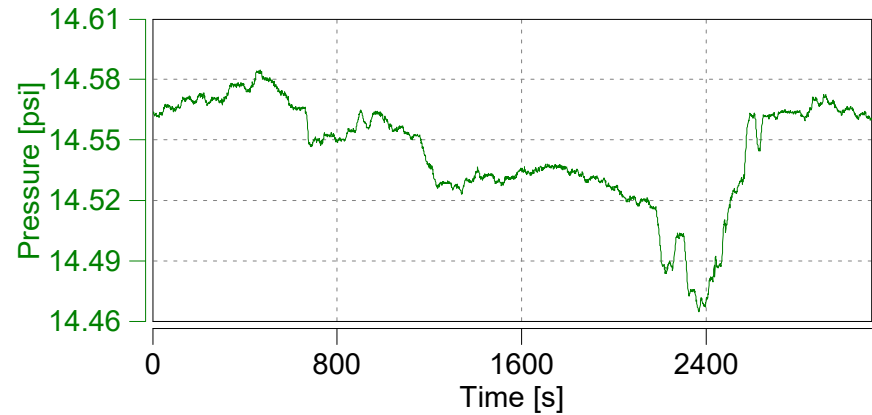
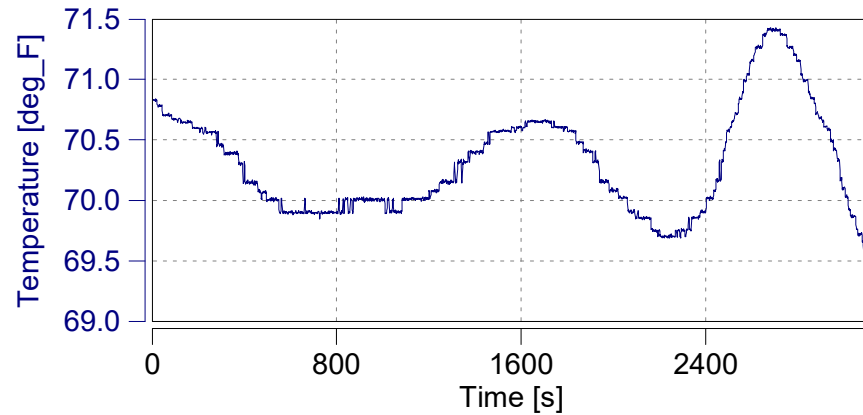
'City'

Start Date: 08/05/2019

Start Time: 21:52:46.0

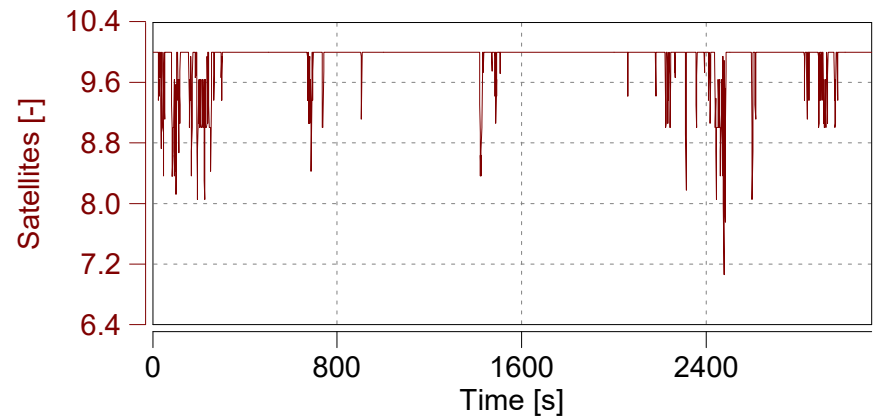
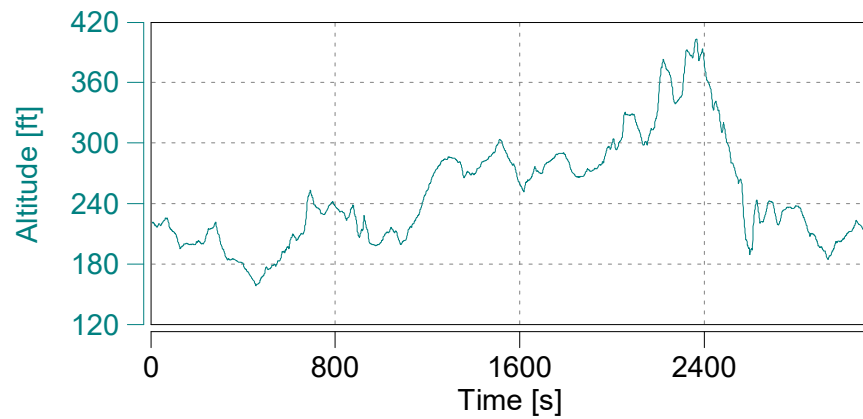
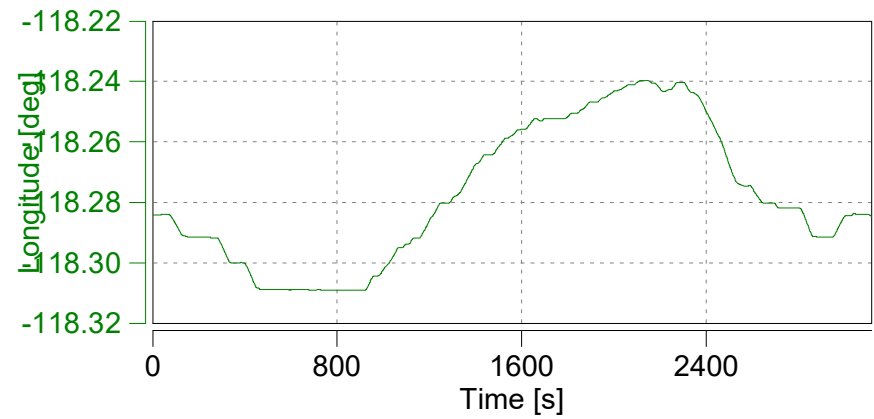
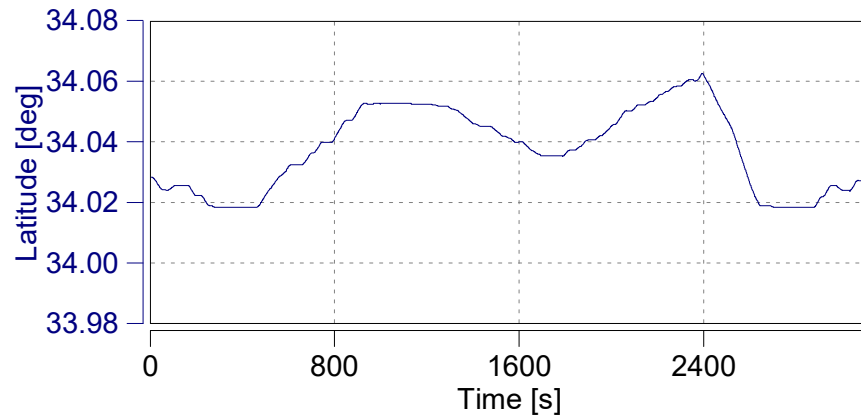


Concerto M.O.V.E., 2018



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)

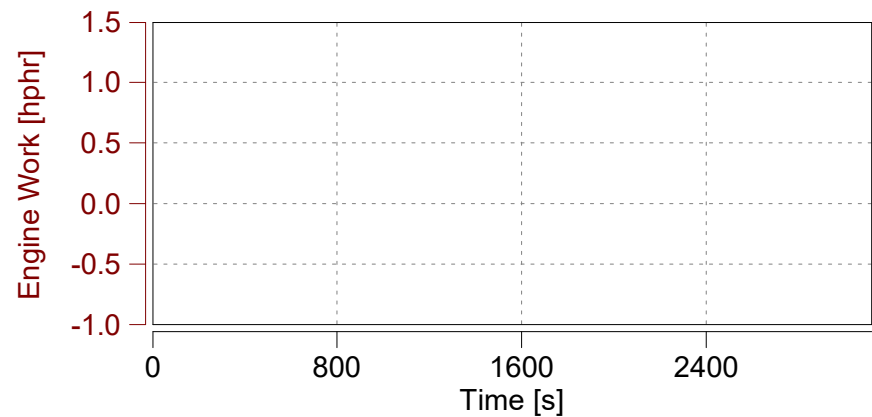
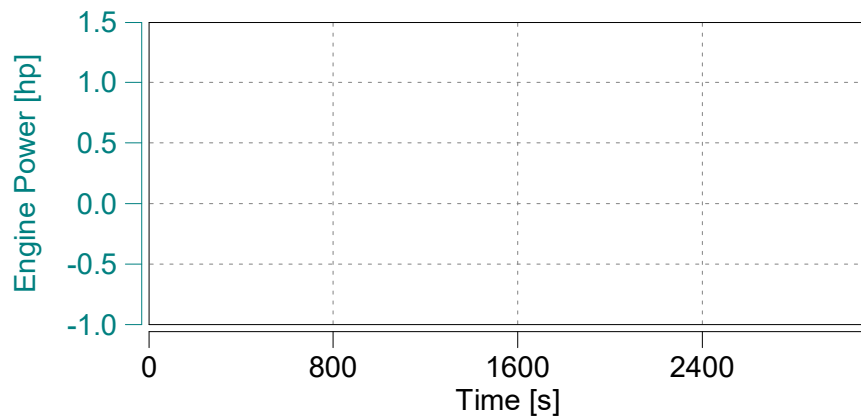
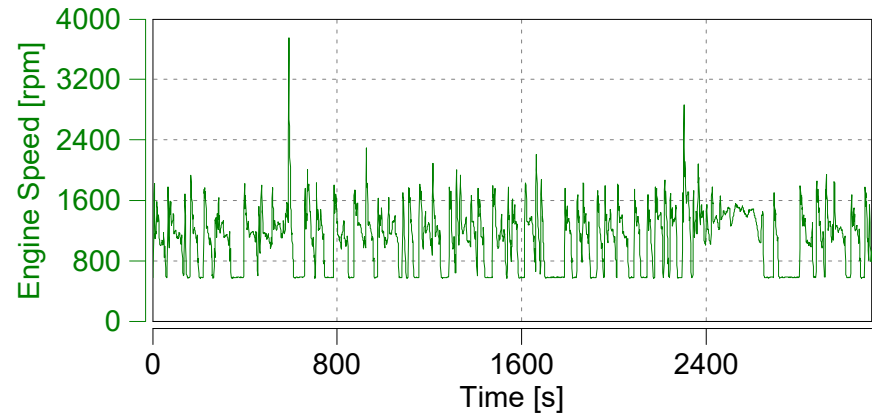
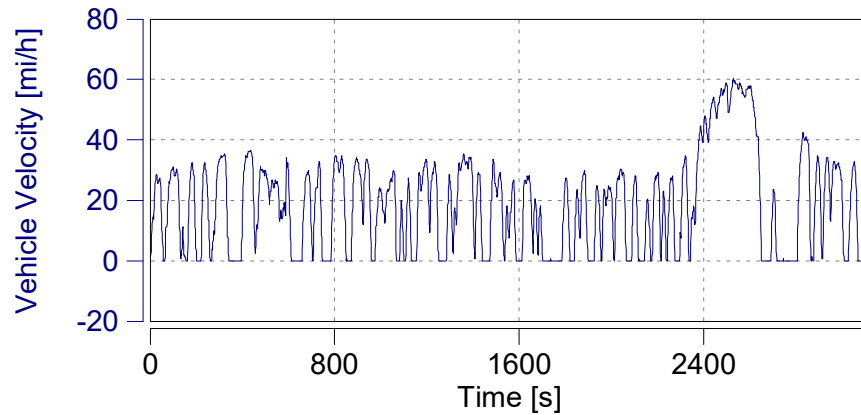
'City'

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

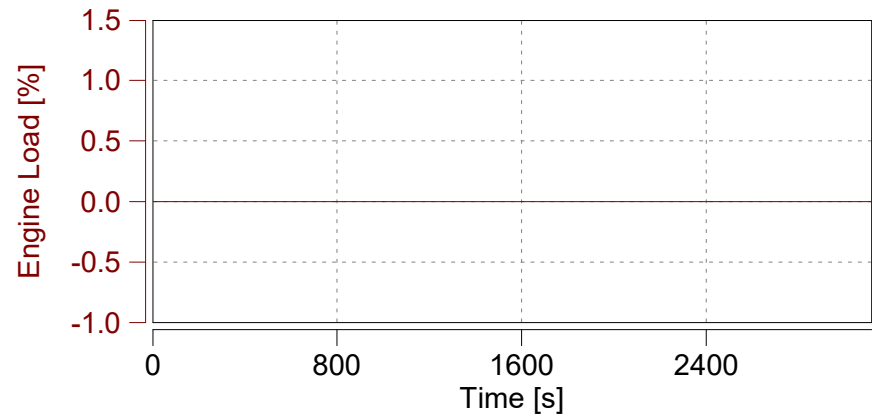
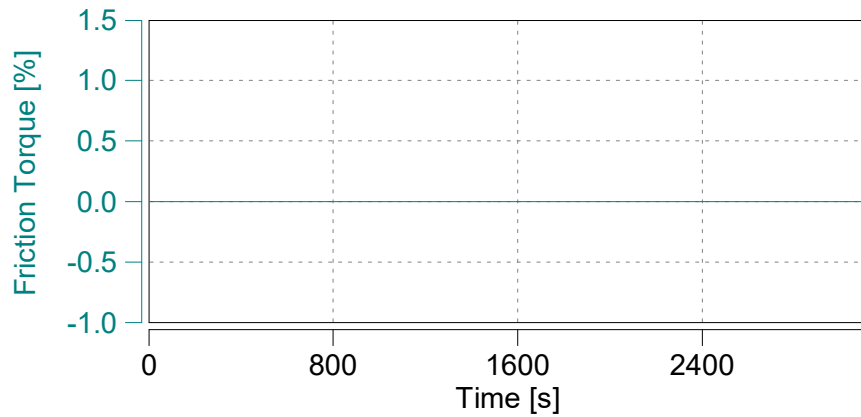
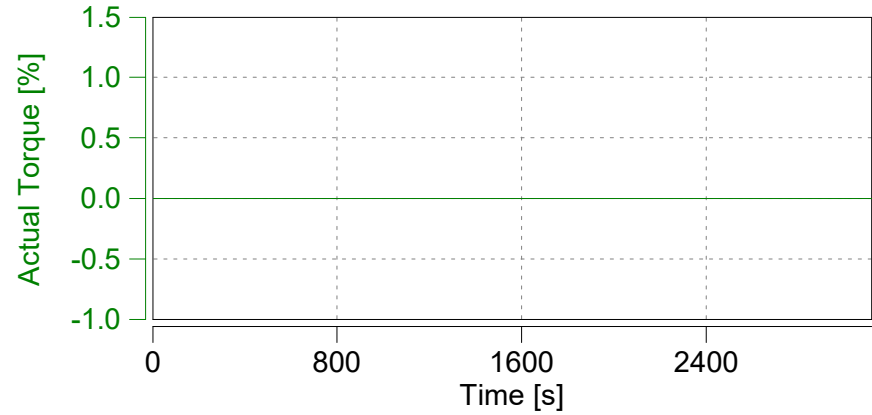
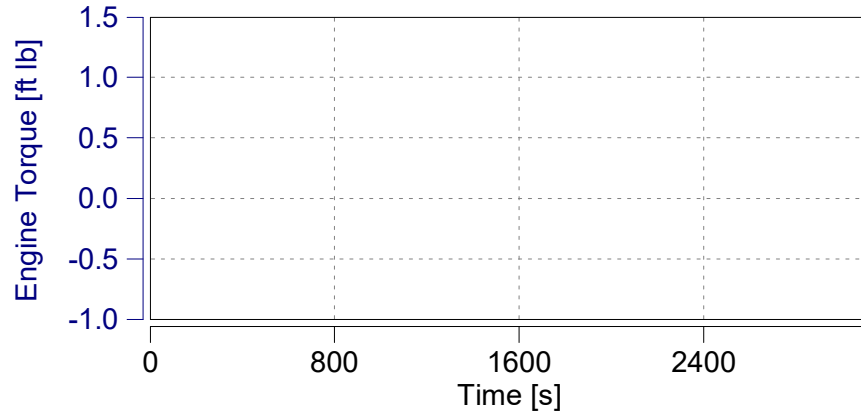
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

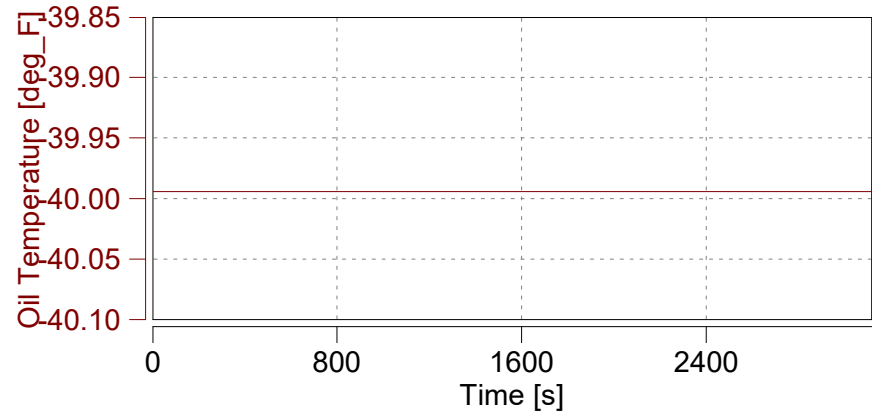
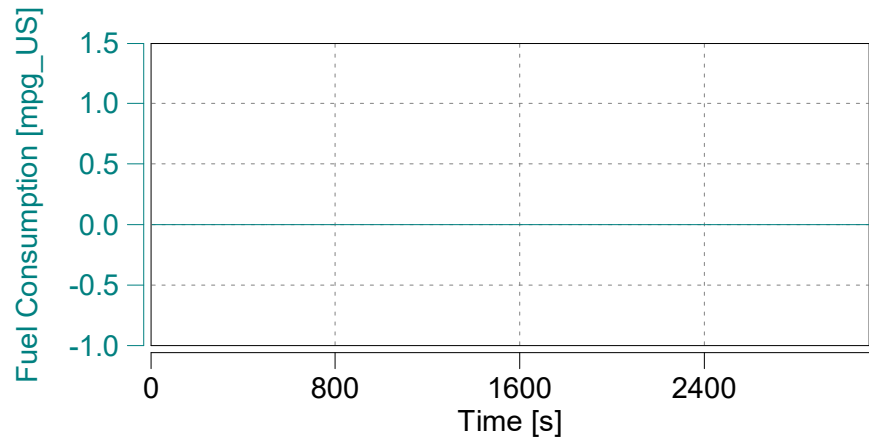
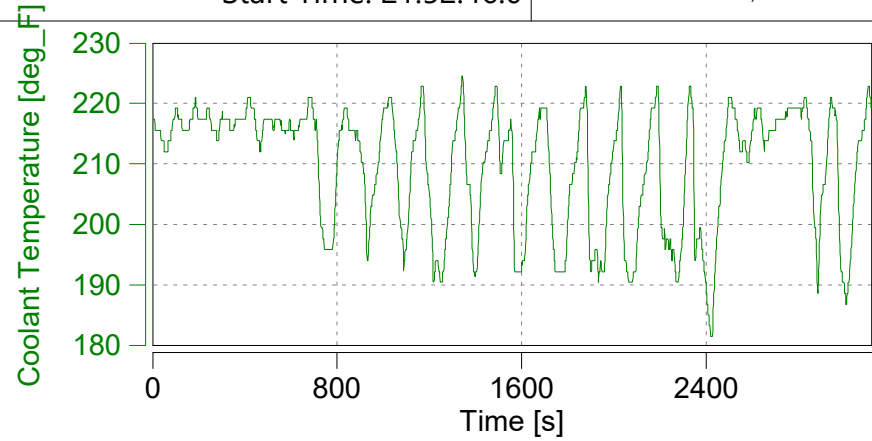
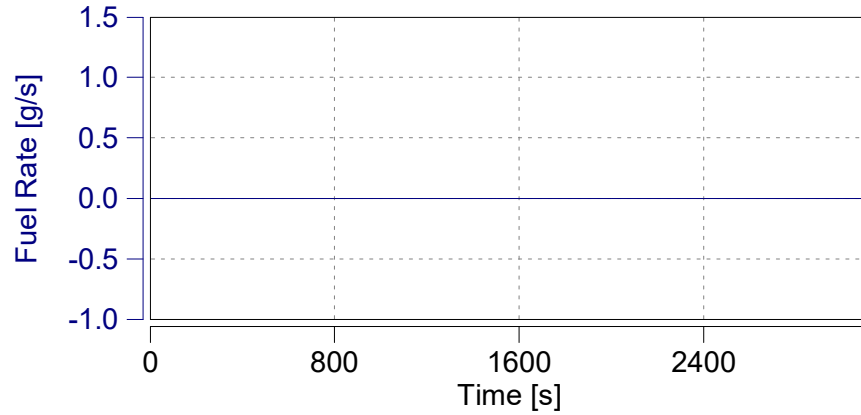
'City'

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)

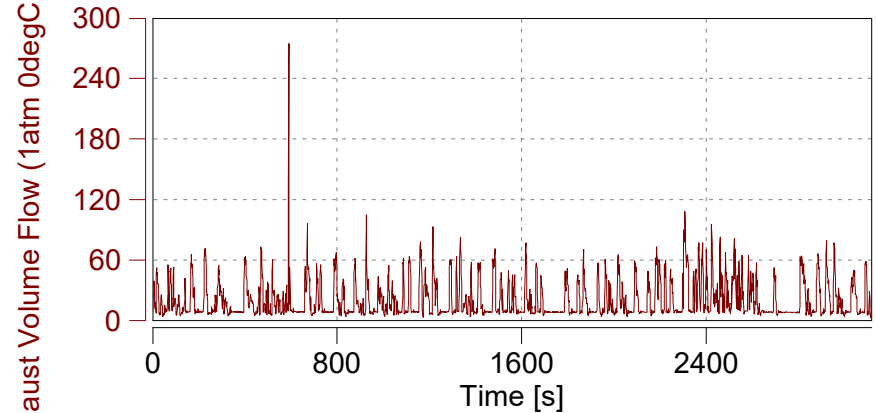
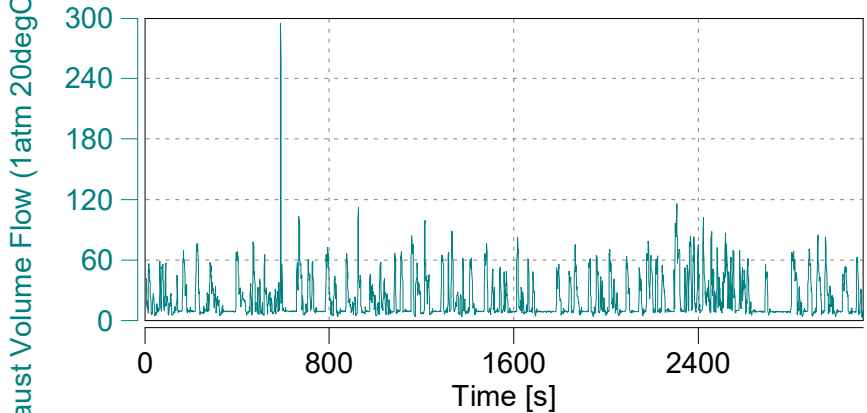
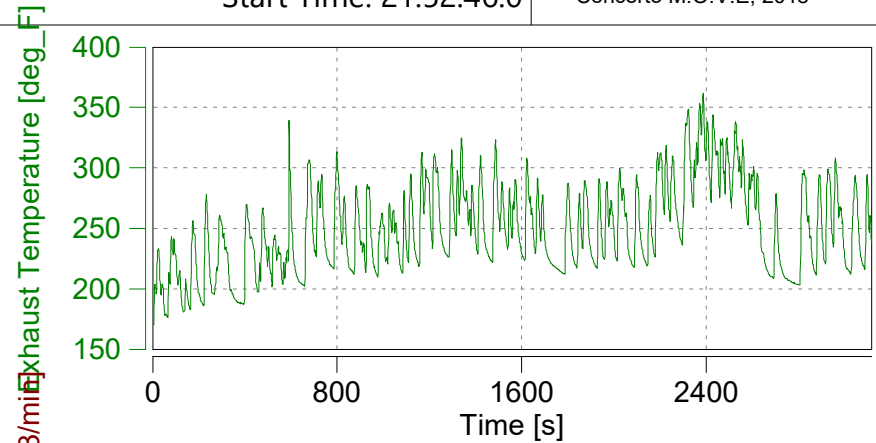
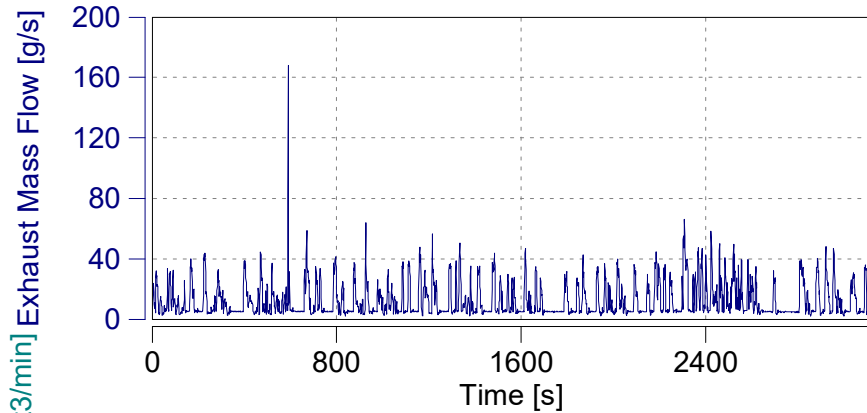
'City'

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)

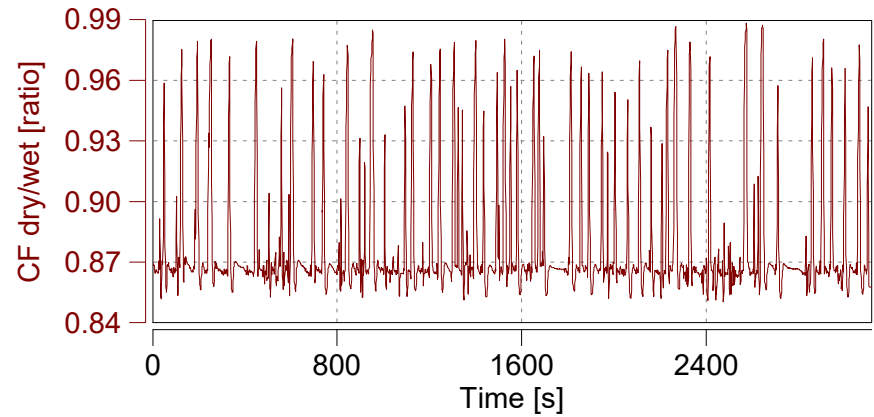
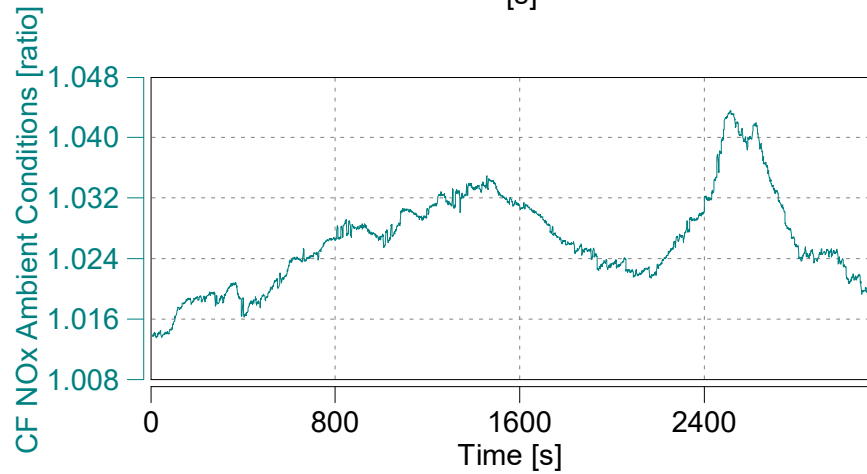
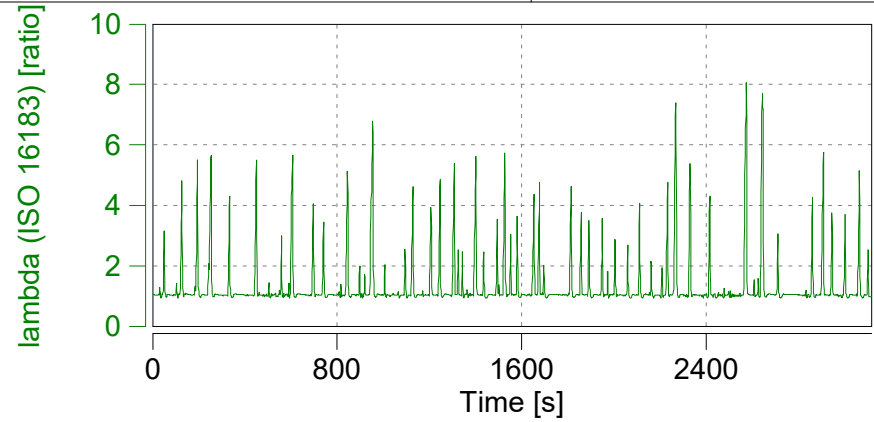
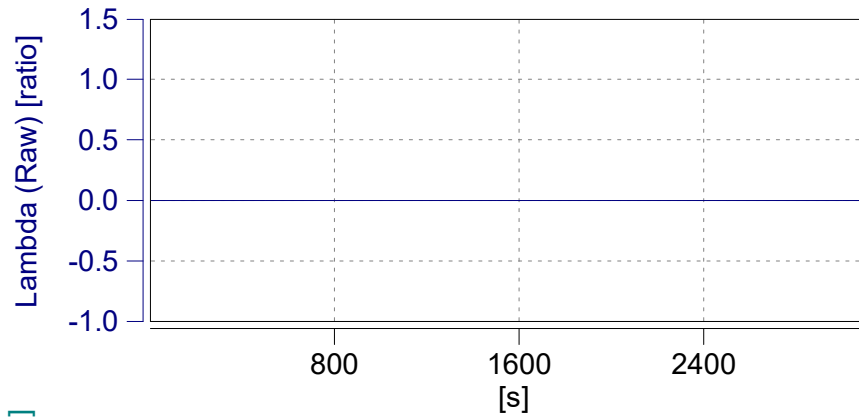
'City'

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)

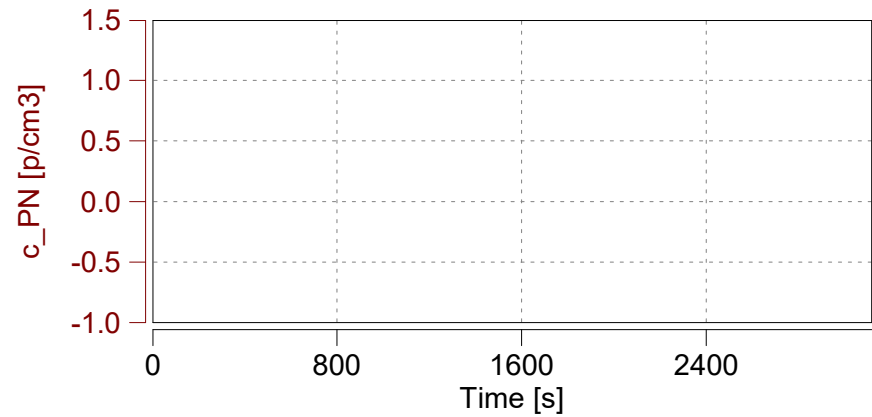
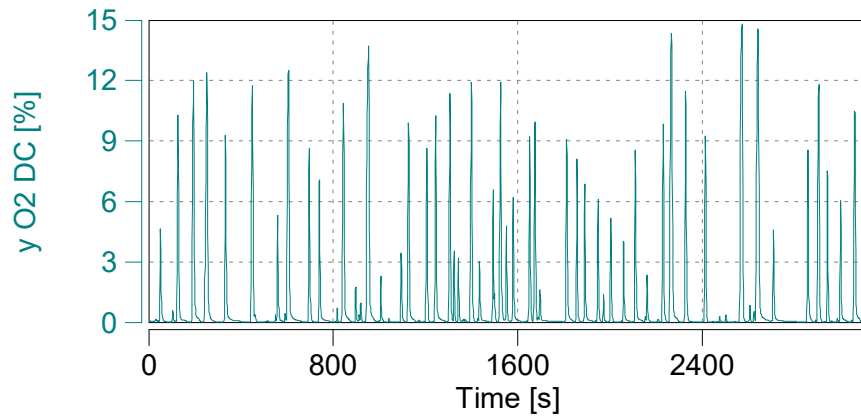
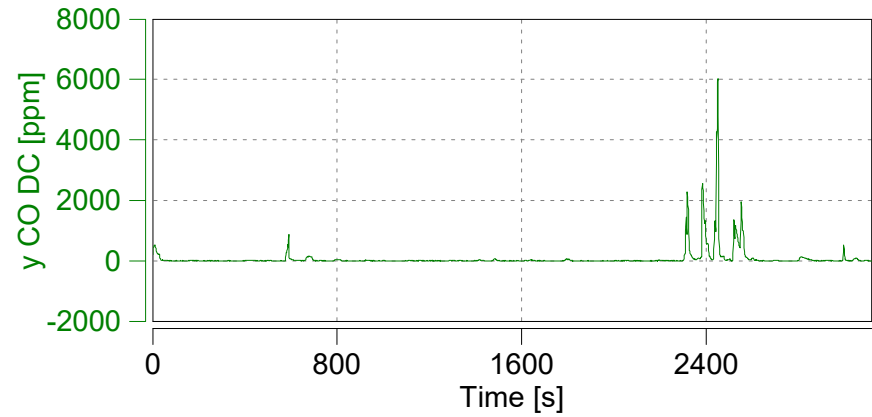
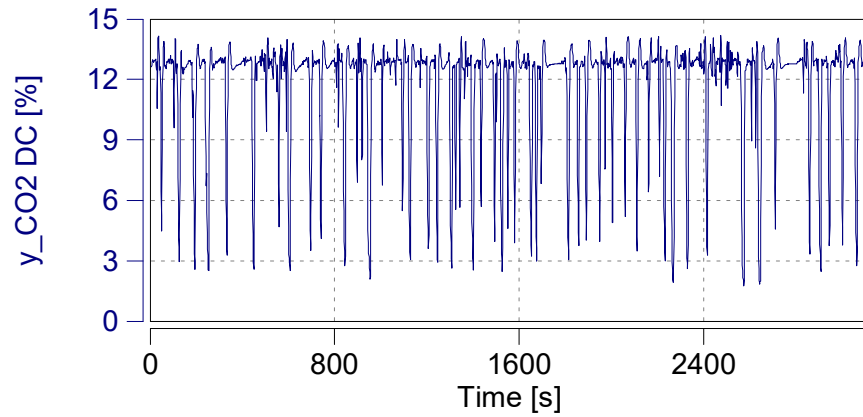
'City'

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)

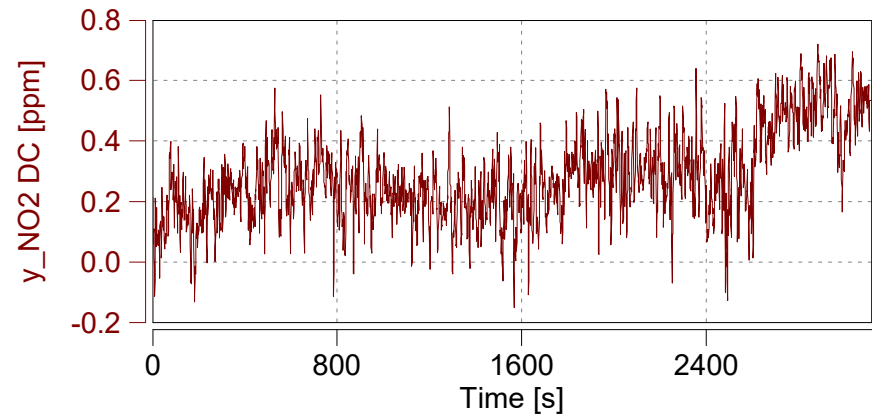
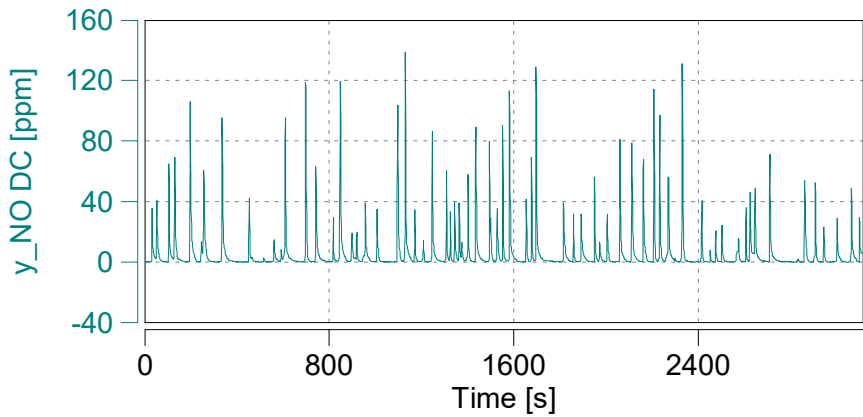
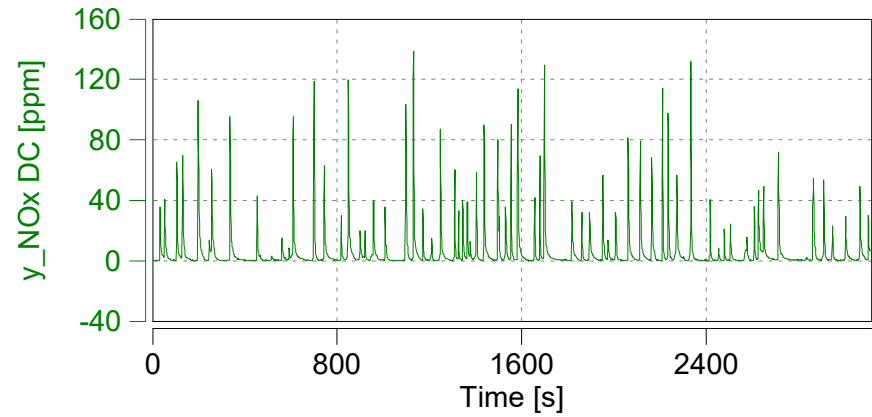
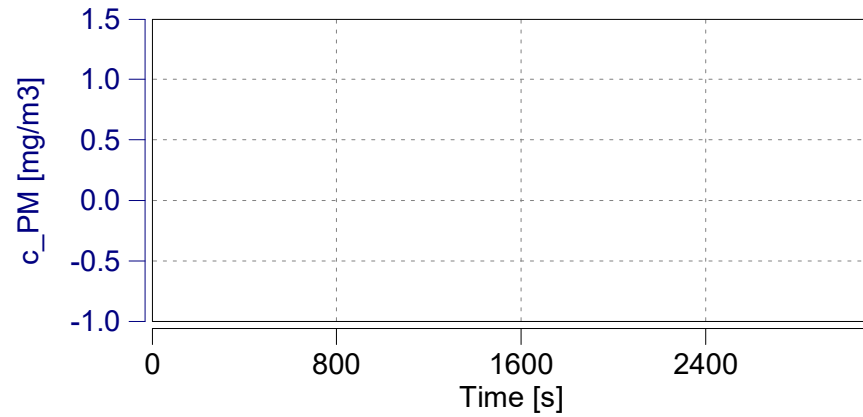
'City'

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

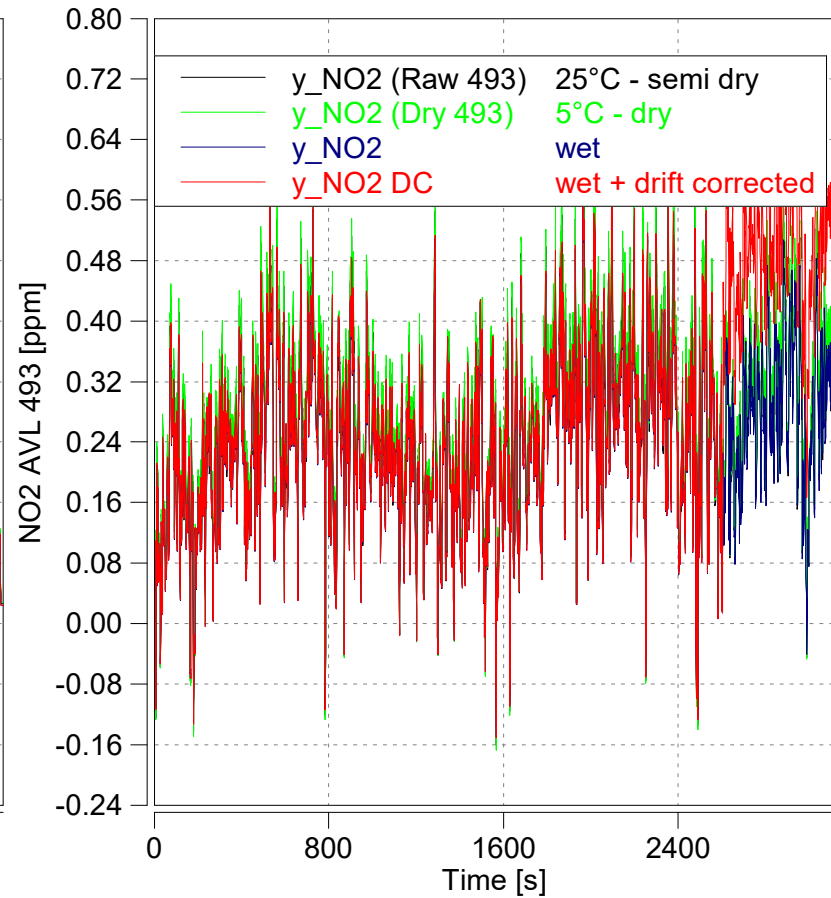
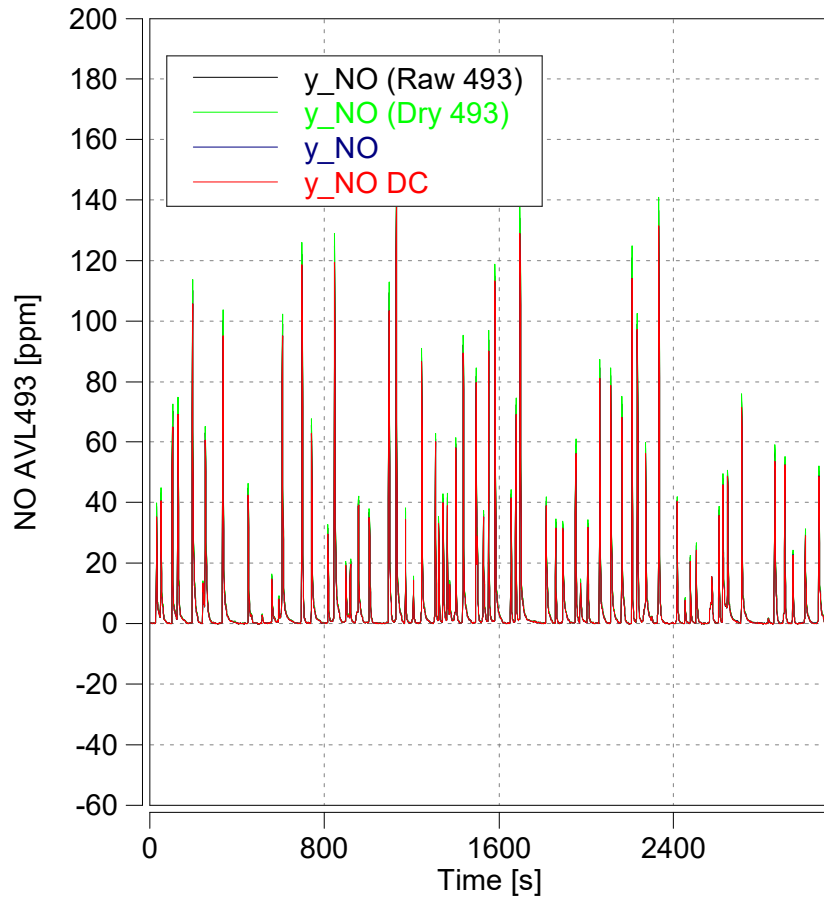
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

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

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

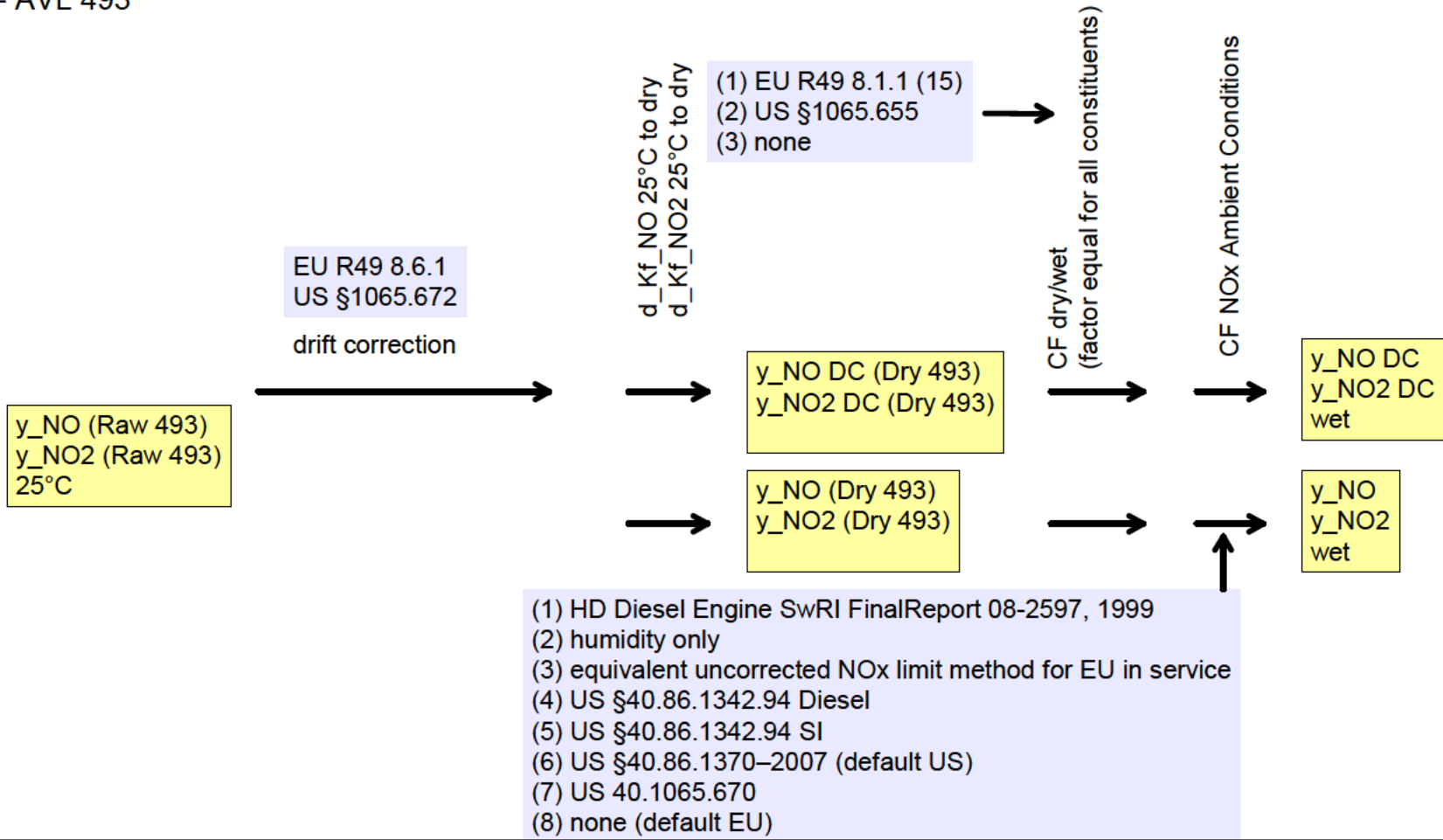


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

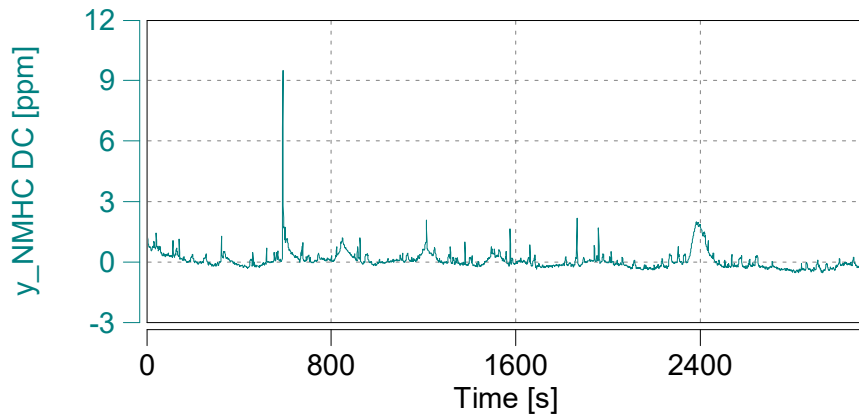
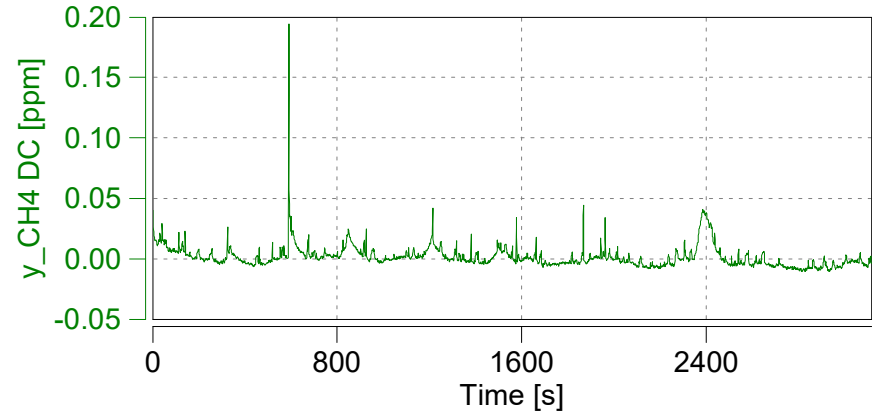
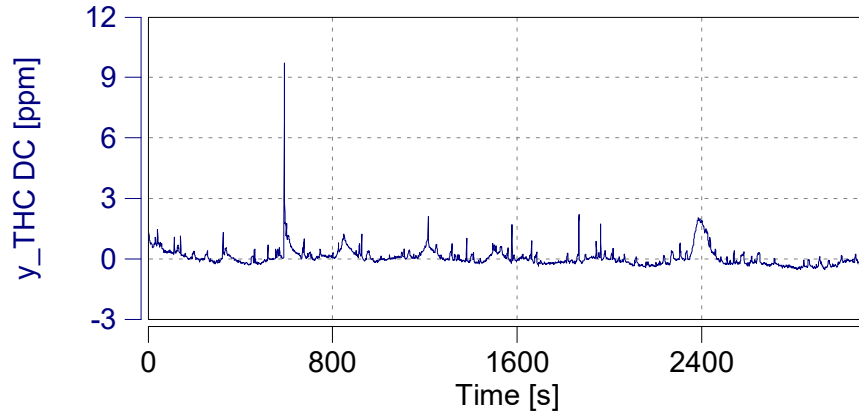
'City'

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

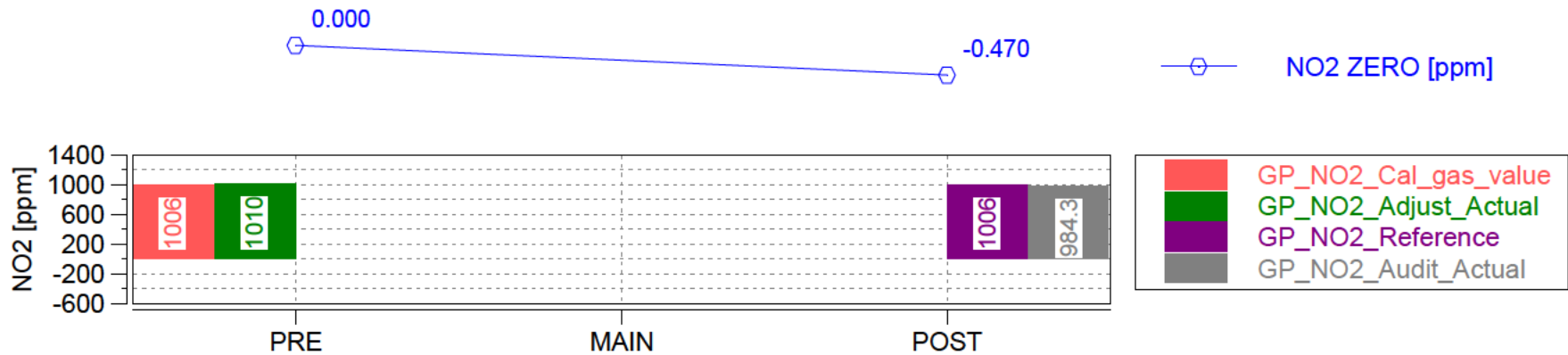
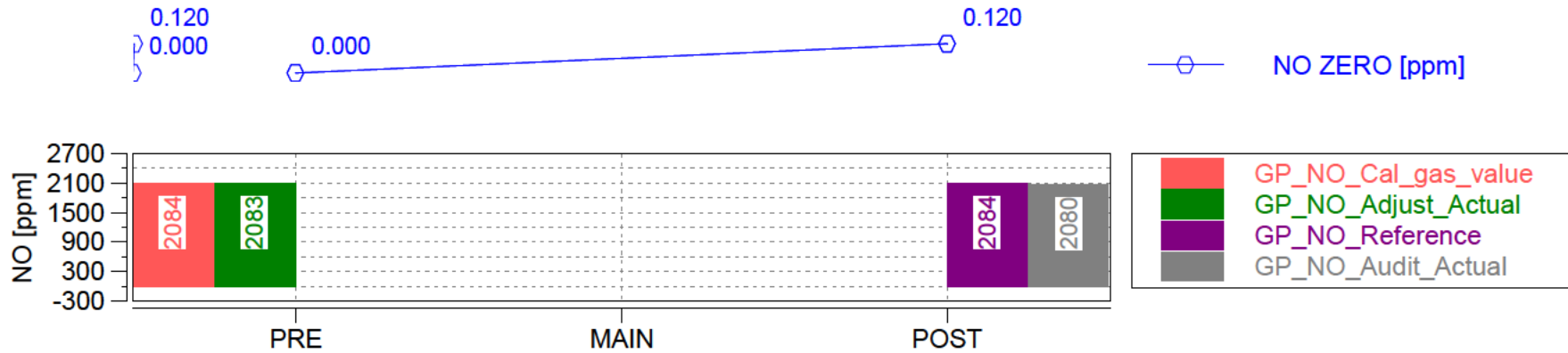
'City'

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

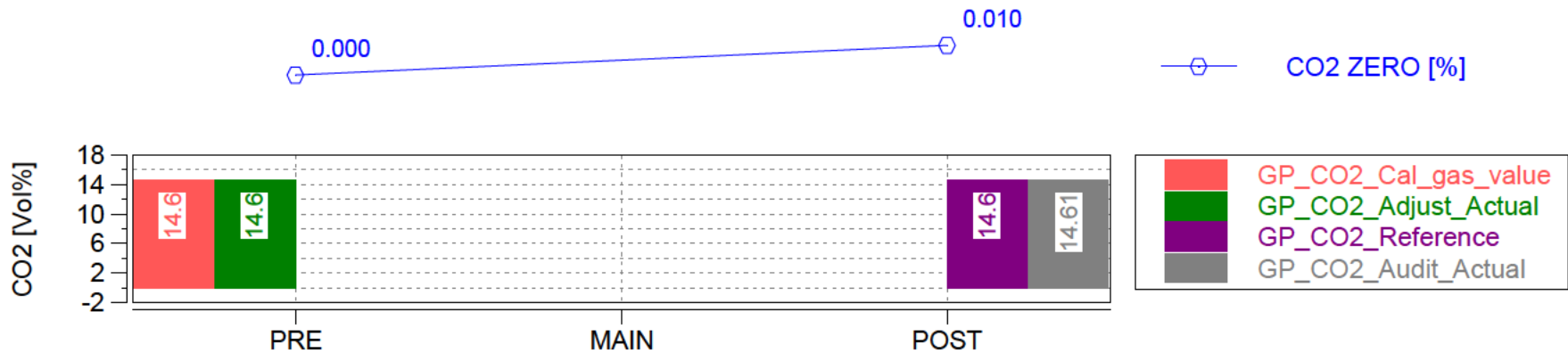
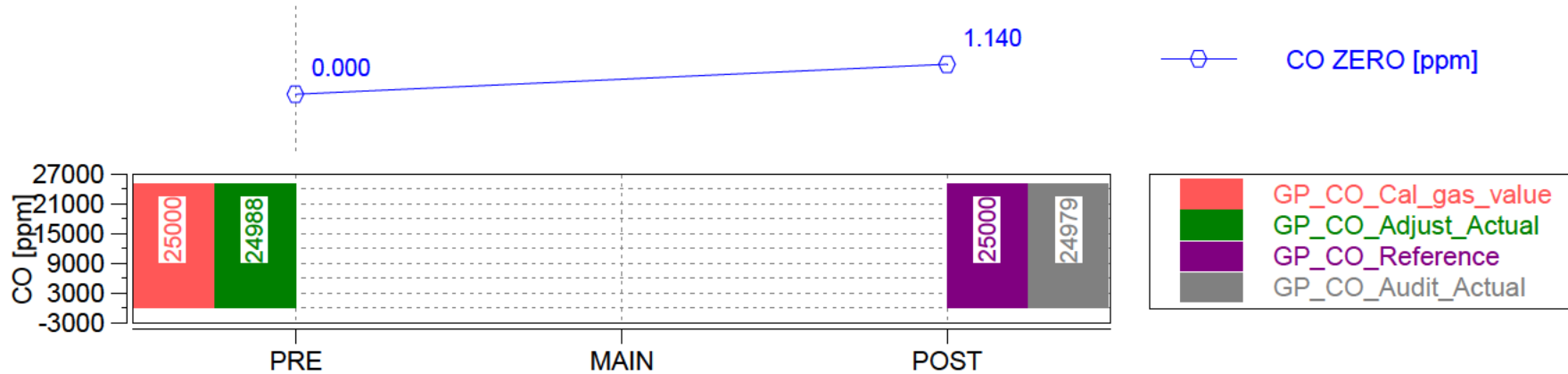
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

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

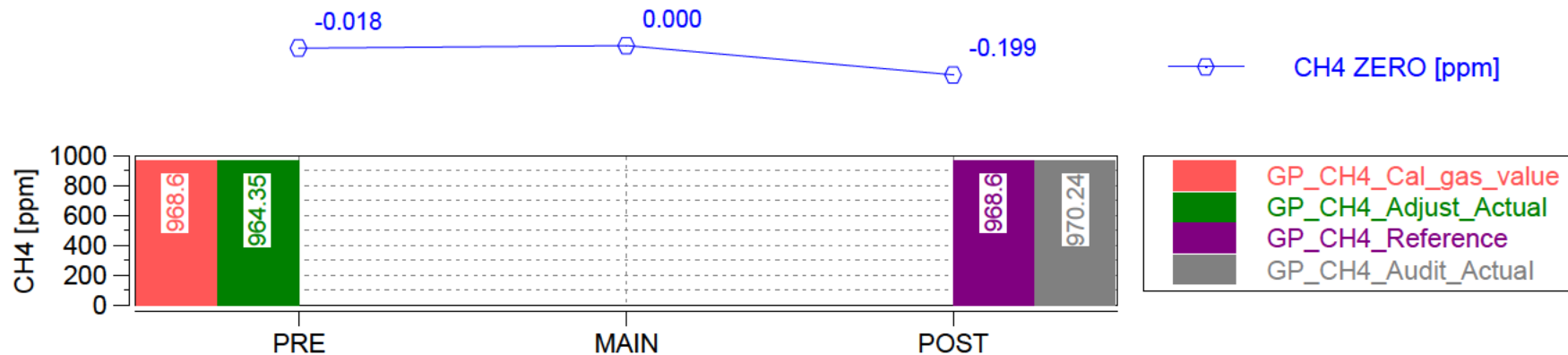
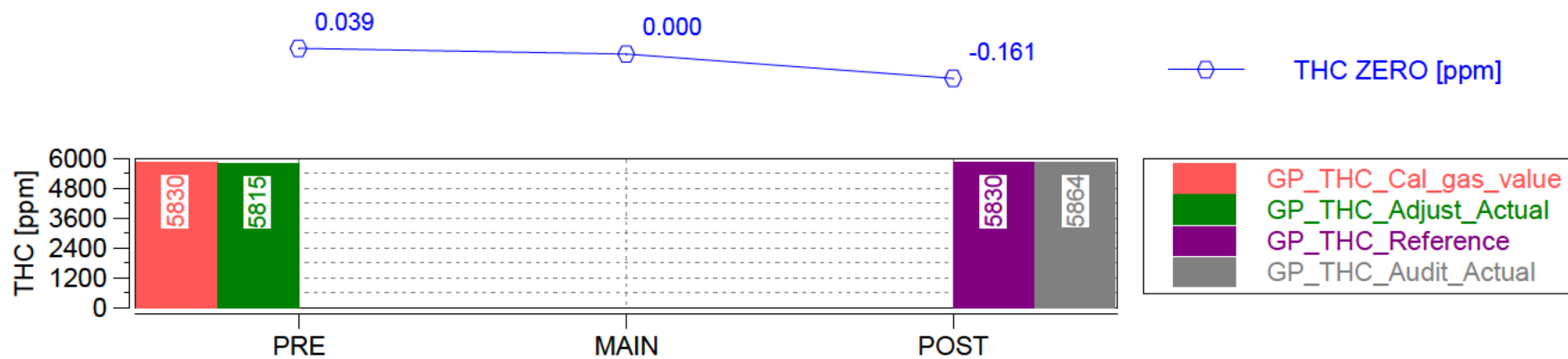
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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
			ave CO2 DC	12.06506	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	3.84687	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)	4.67	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.62	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	0.04624	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.65	gall	tot NMHC DC	0.04277	g			
Trip Fuel Cons. Volume US (ac)	1.63	gall	tot CH4 DC	0.00102	g	DS CO2 DC	363.54750	g/mi
			tot CO DC	12.31299	g	DS CO DC	0.31859	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	14050.40837	g	DS THC DC	0.00120	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.15427	g	DS NMHC DC	0.00111	g/mi
Trip Fuel Economy EU (ac)	23.41	mpg_US	tot NO2 DC	0.07270	g	DS CH4 DC	0.00003	g/mi
Trip Fuel Economy US (ac)	23.65	mpg_US	tot NOx DC	0.22697	g	DS NO DC (d)	0.00399	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00188	g/mi
Trip Av. Eng. Speed	1591.65	rpm	tot Soot meas	n/a	g	DS NOx DC	0.00587	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	72.74	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	78.10	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	54.16	%	Trip Av. Veh. Speed	54.81995	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	2.67928	%	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

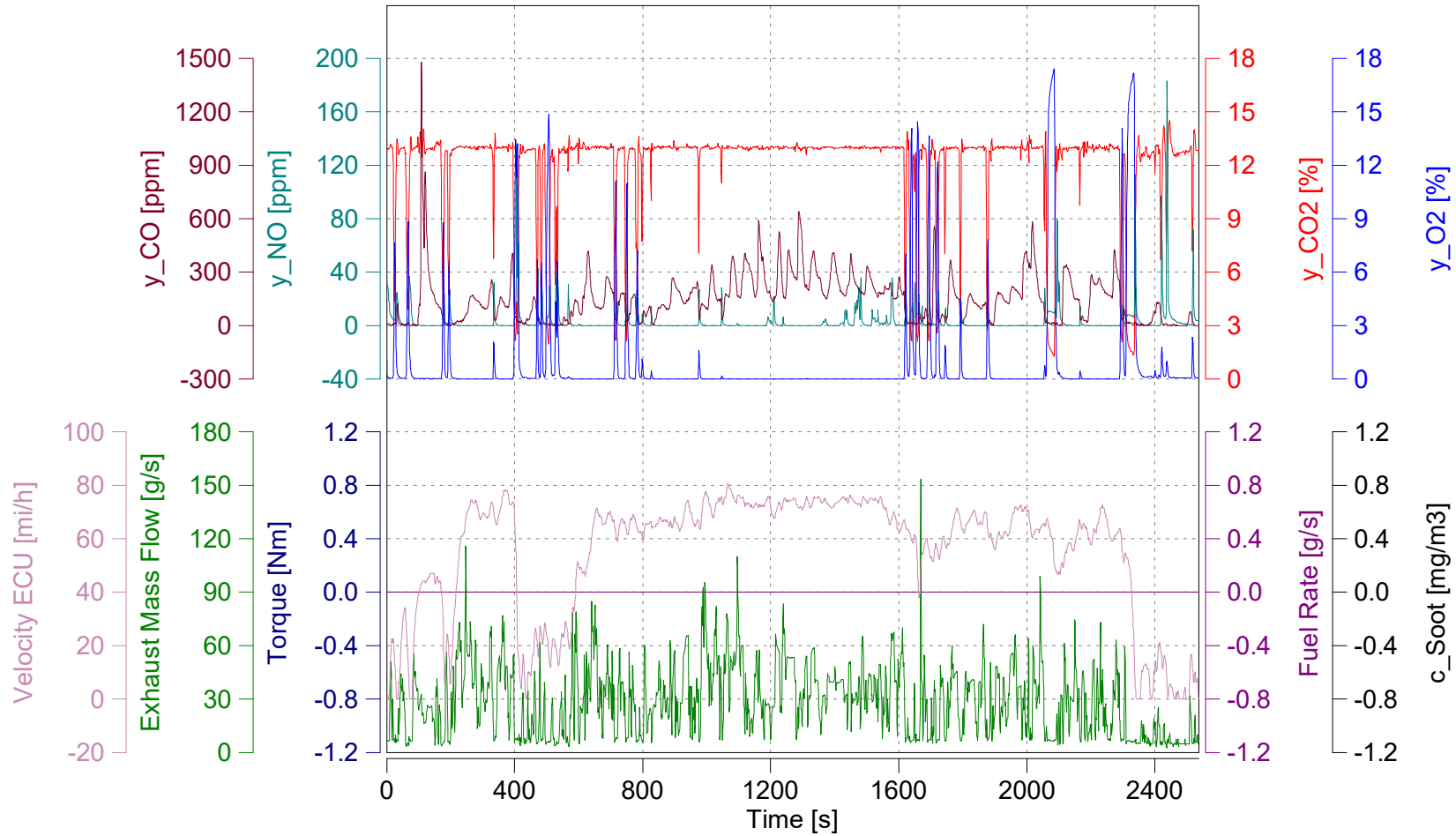
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

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

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



Concerto Version: 480 Build 316, Serial Number: 1120

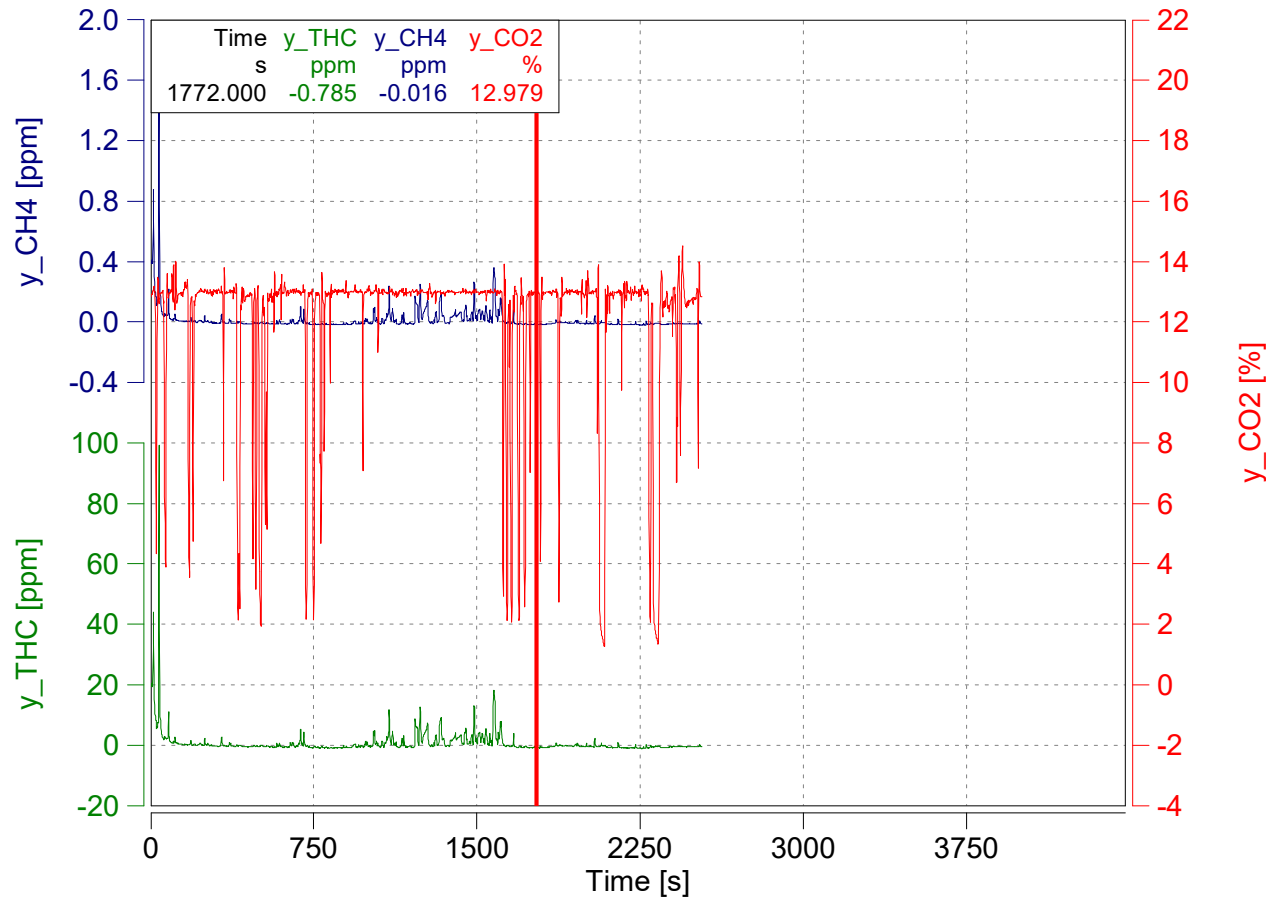
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Vehicle: SQ5 / 3.0 L

Engine: /

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

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

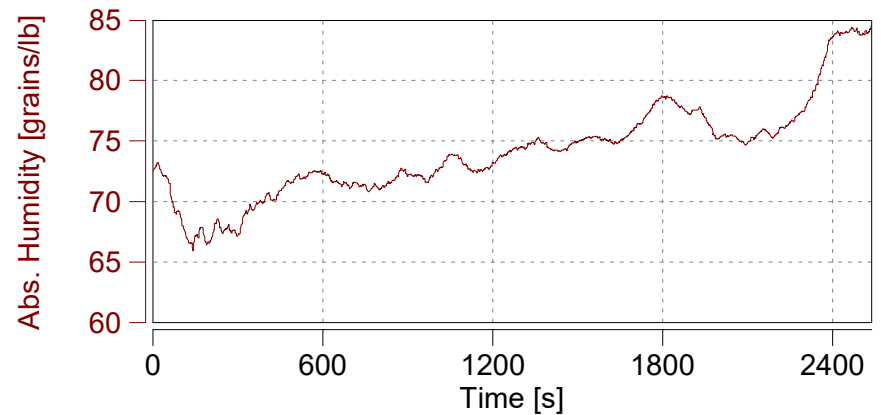
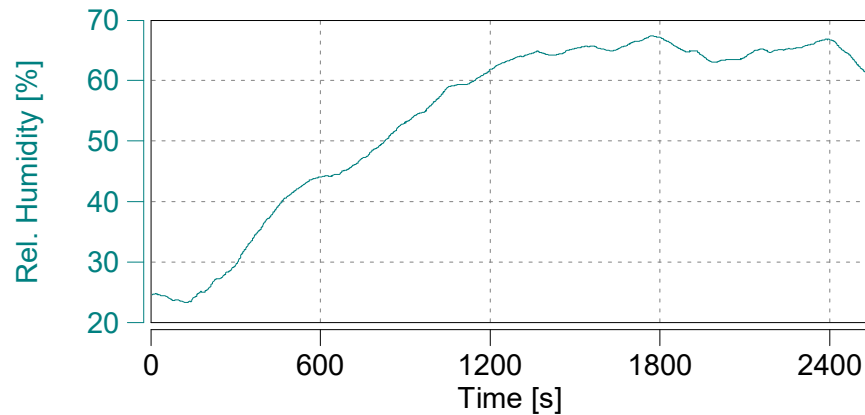
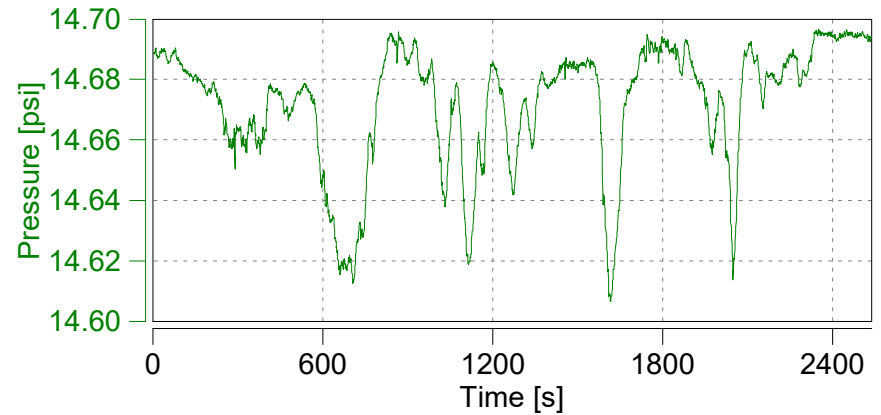
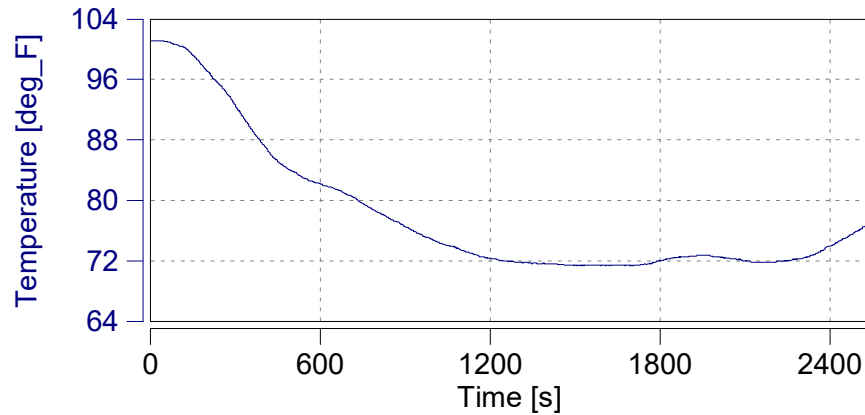


Absolute Time Shifts

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
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

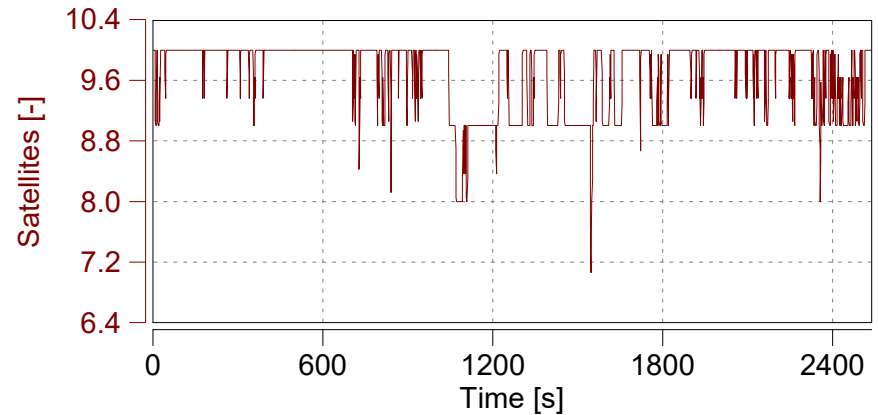
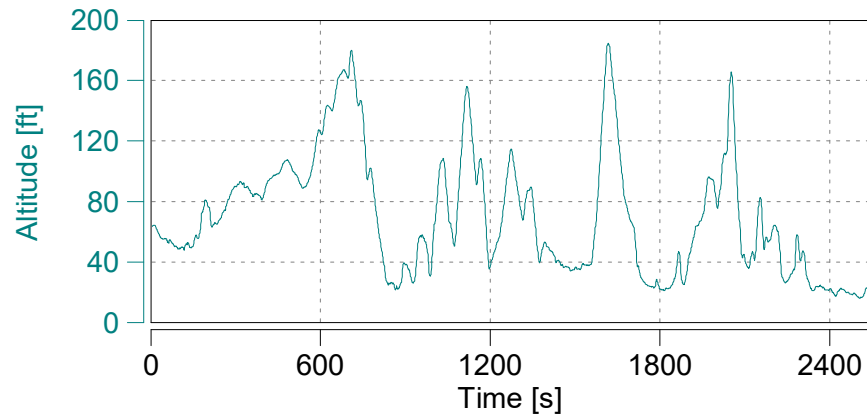
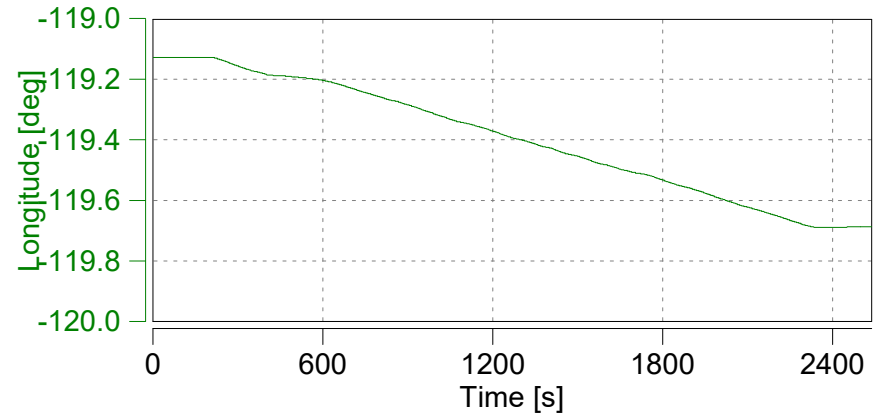
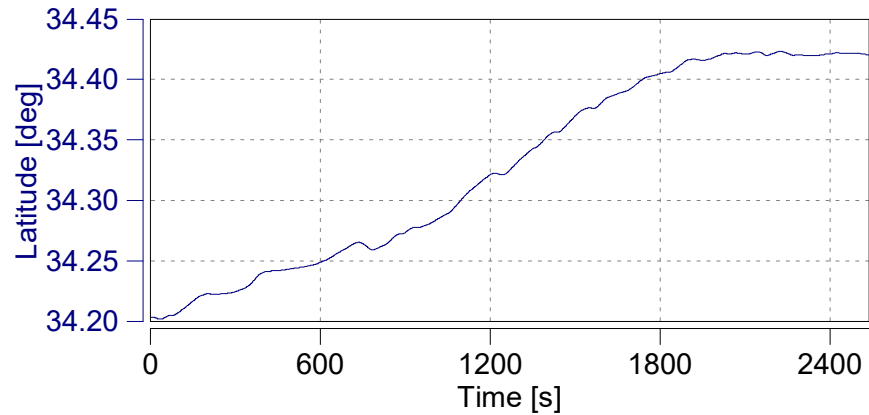
'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0

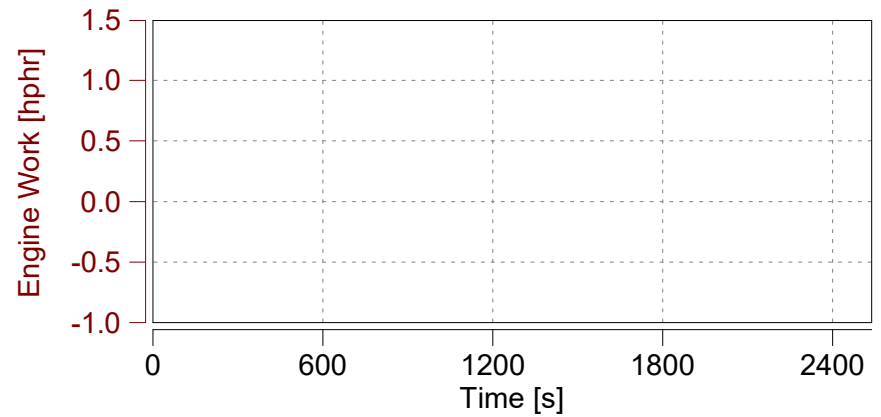
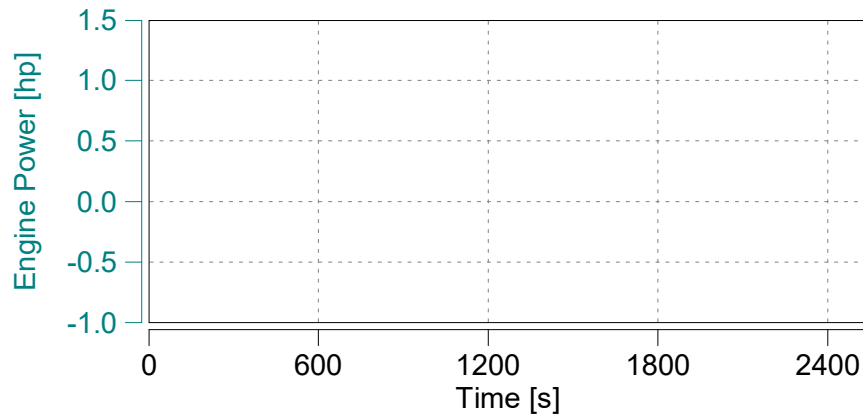
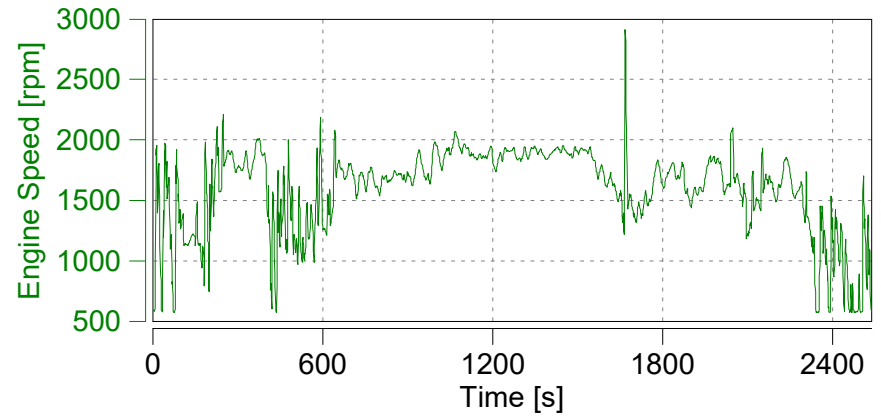
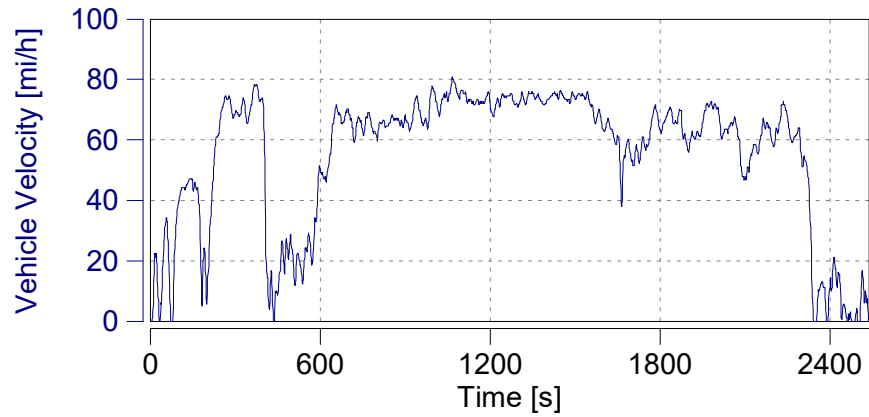


Concerto M.O.V.E., 2018



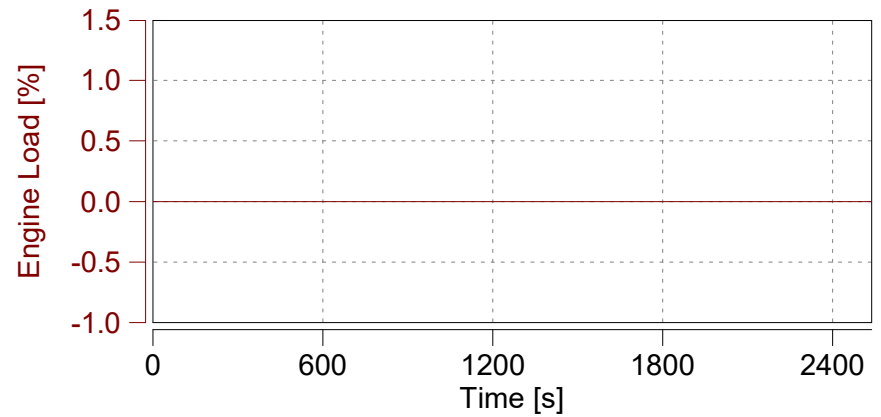
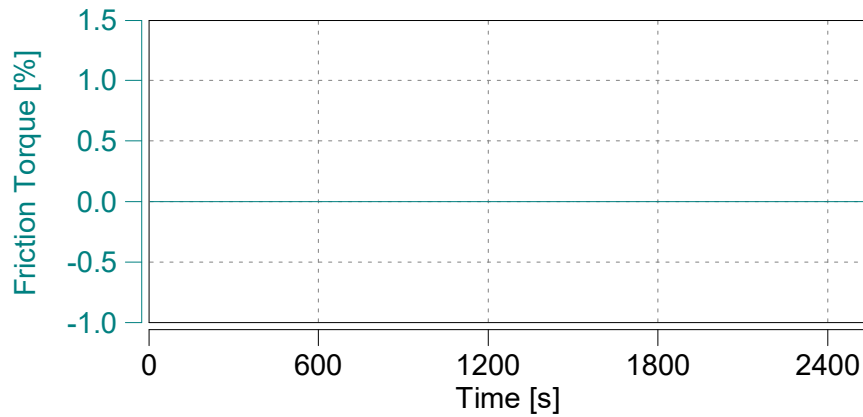
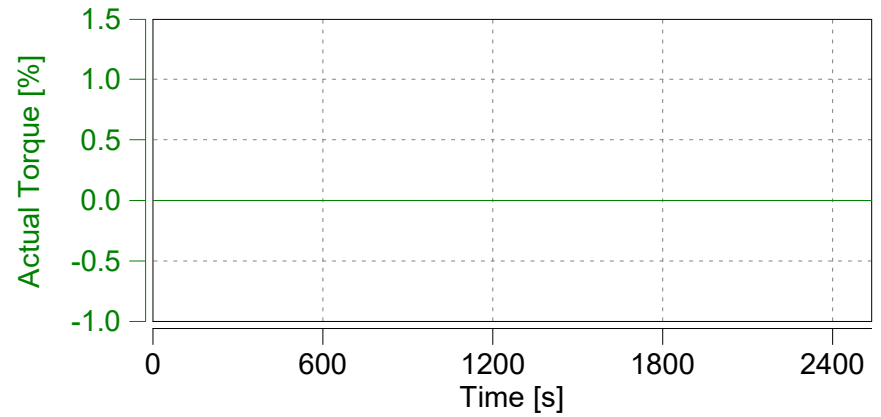
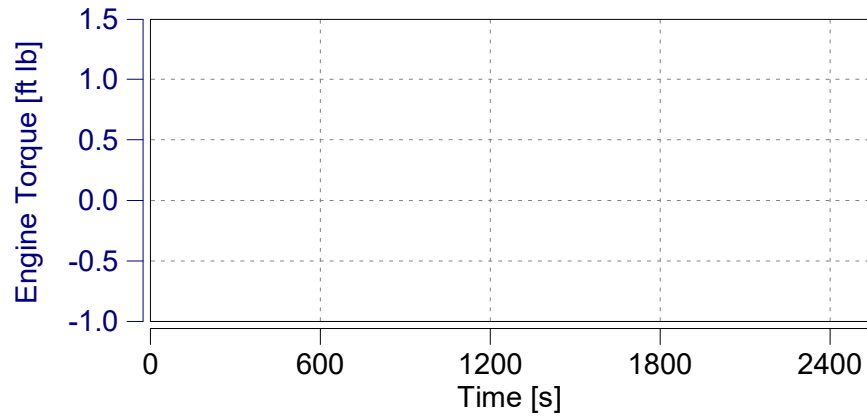
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

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



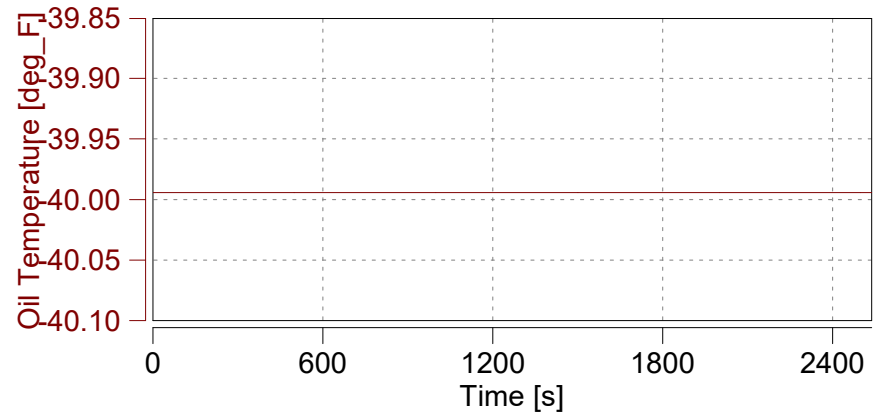
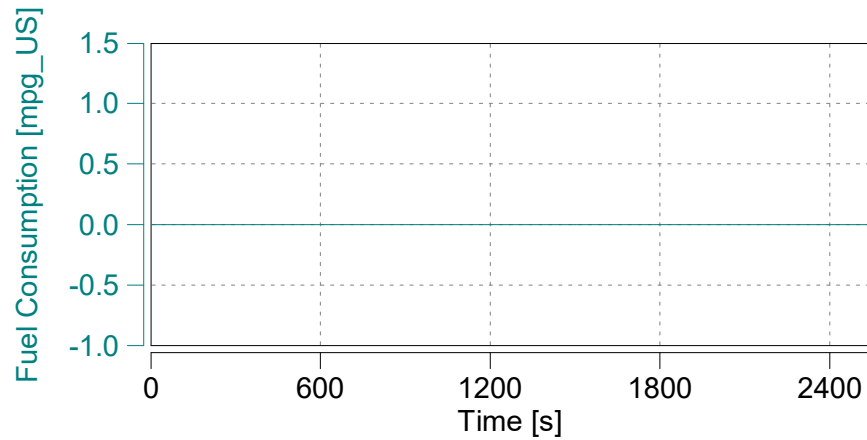
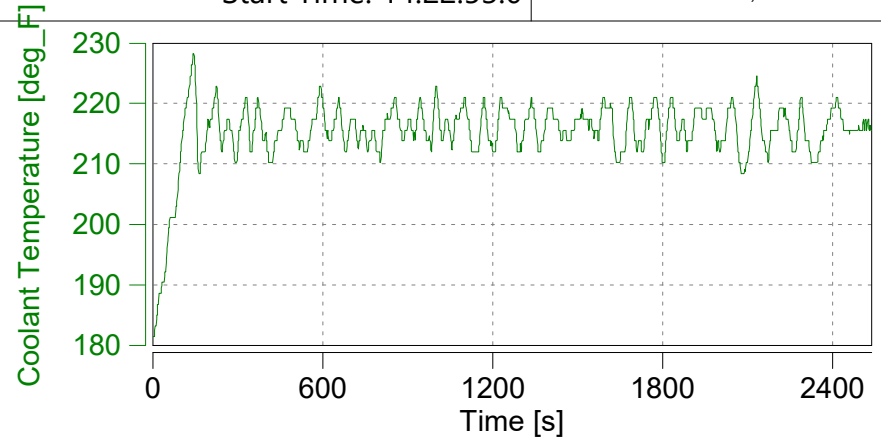
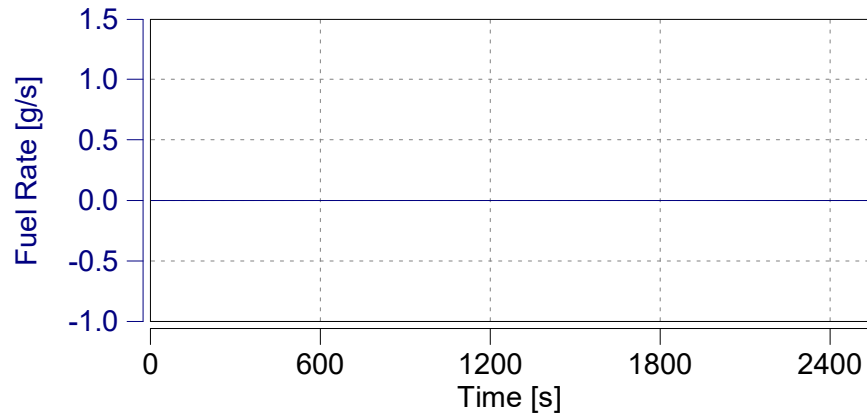
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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
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: Exhaust Flow (1)

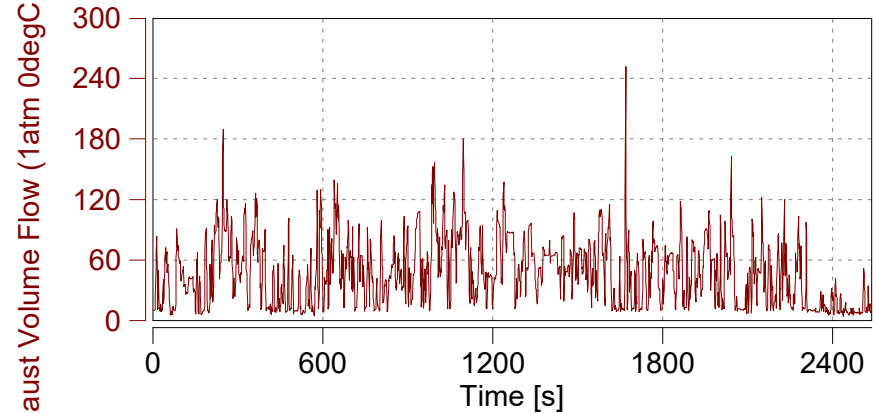
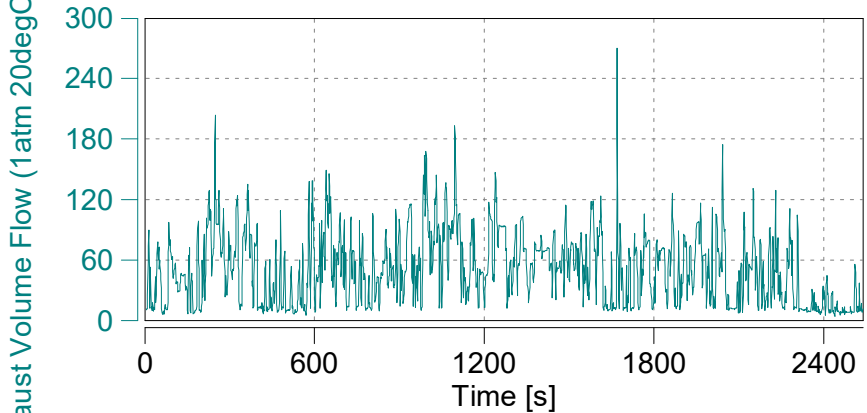
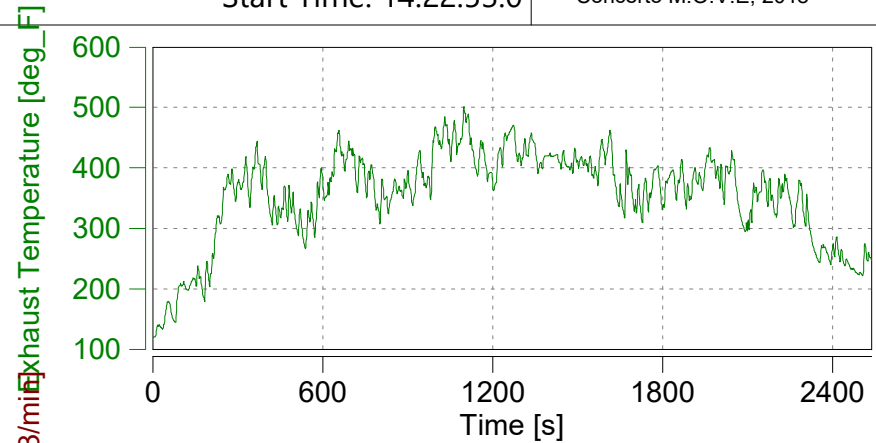
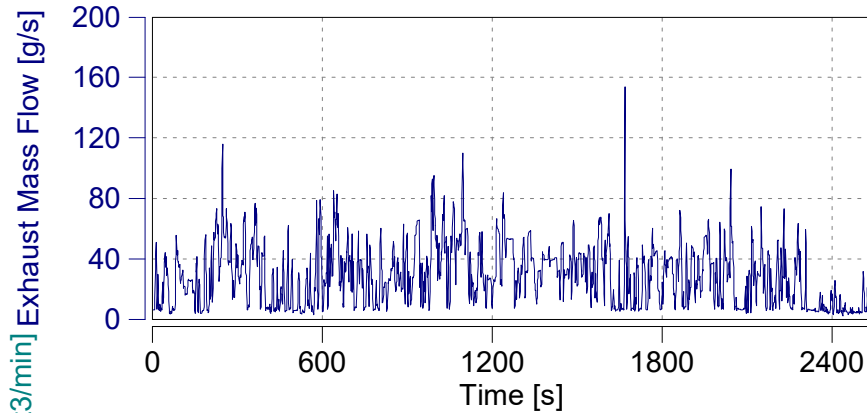
'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0

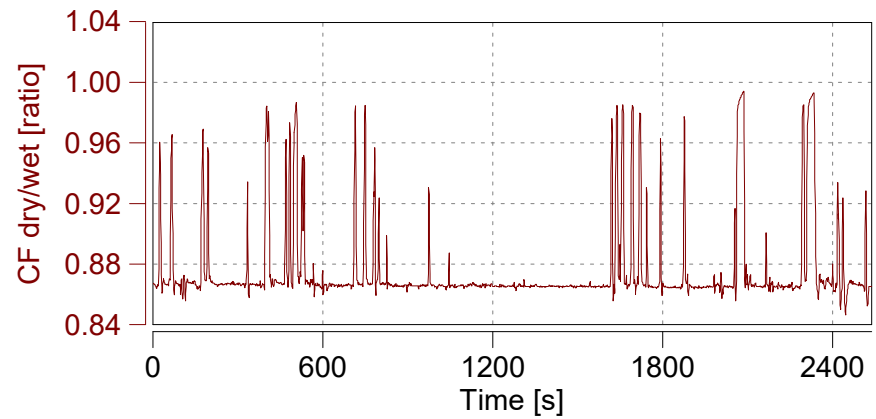
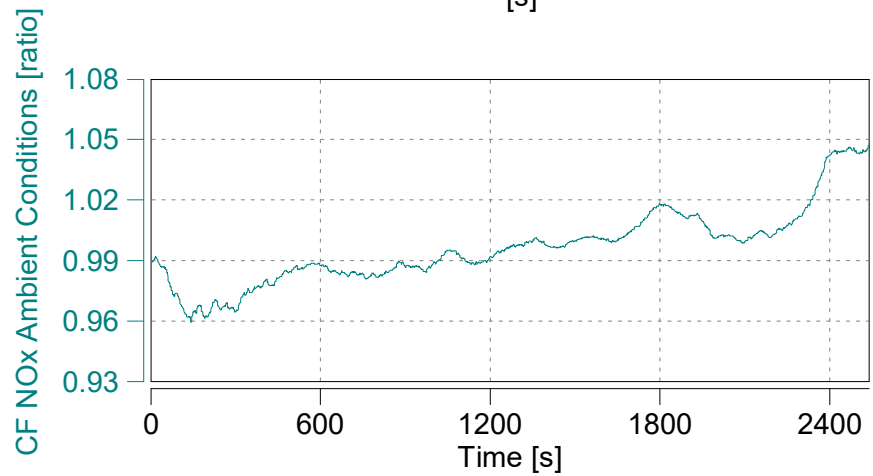
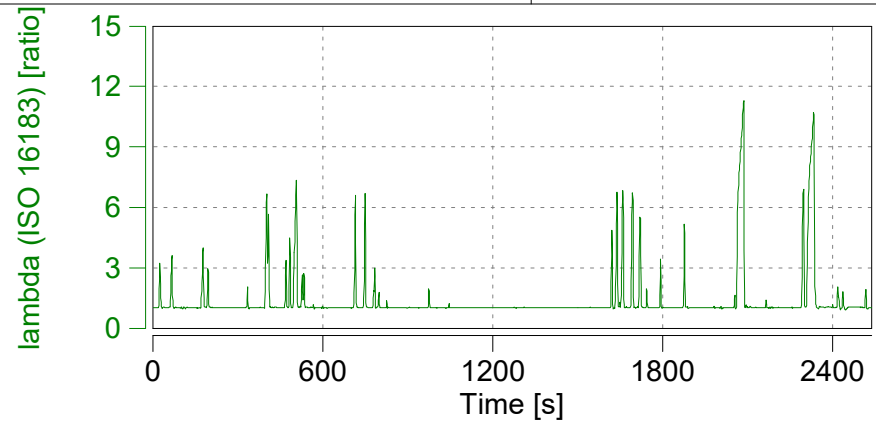
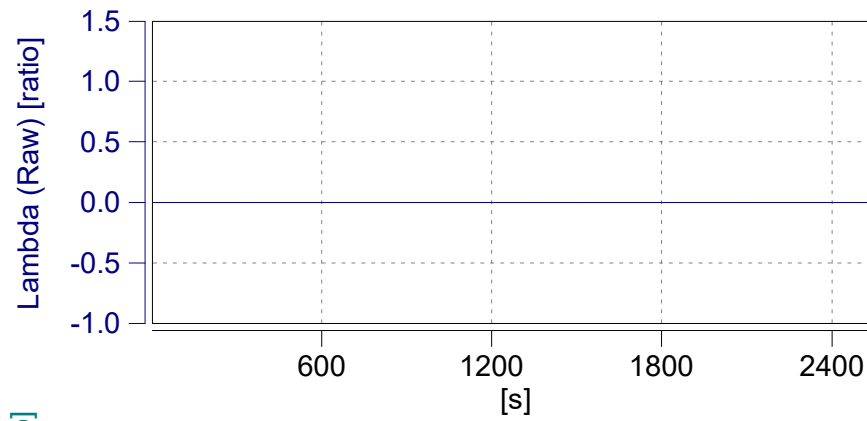


Concerto M.O.V.E, 2018



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)

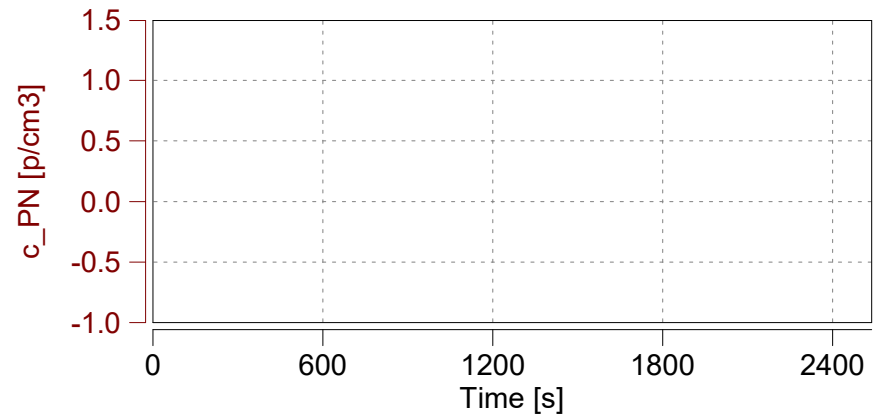
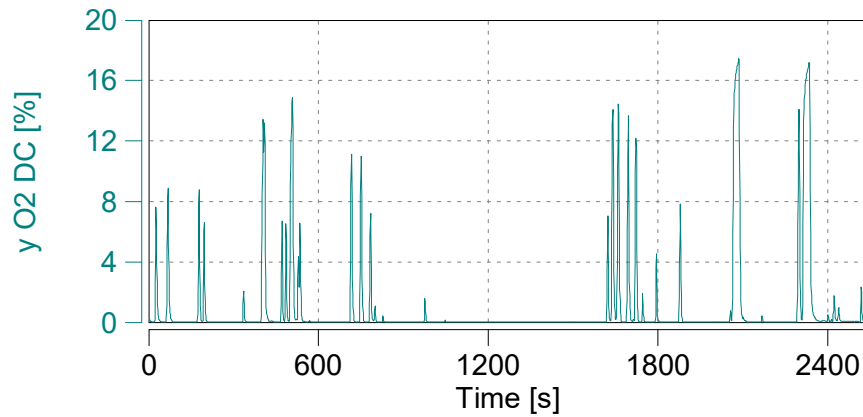
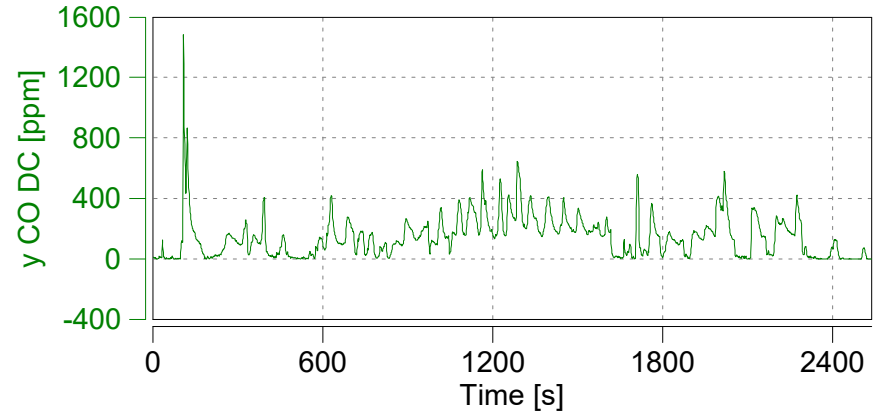
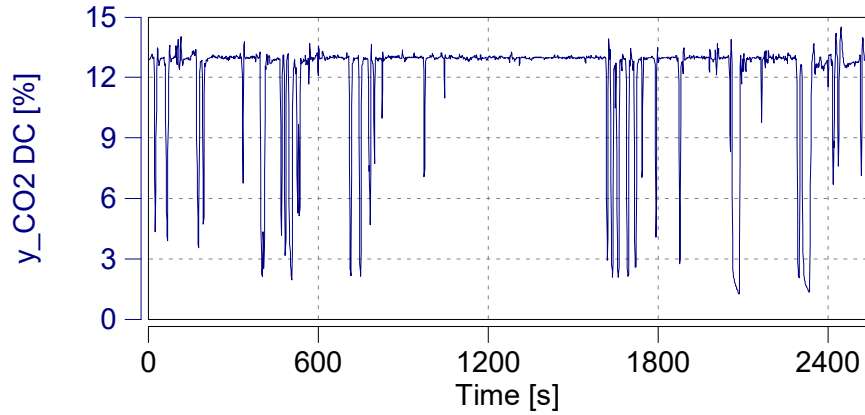
'Highway'

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)

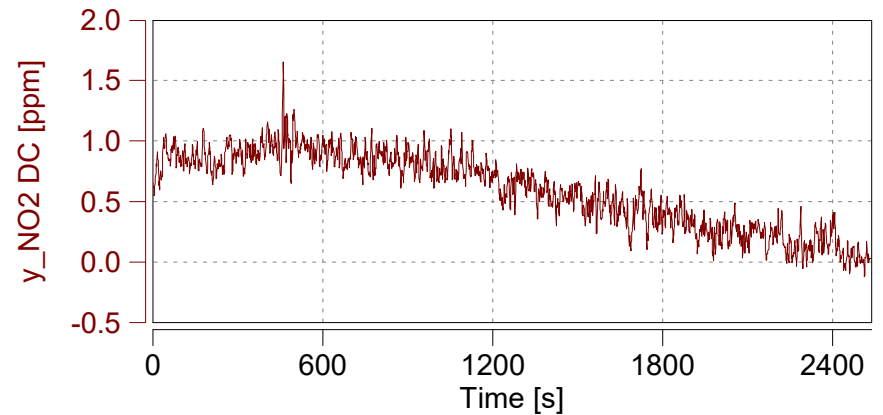
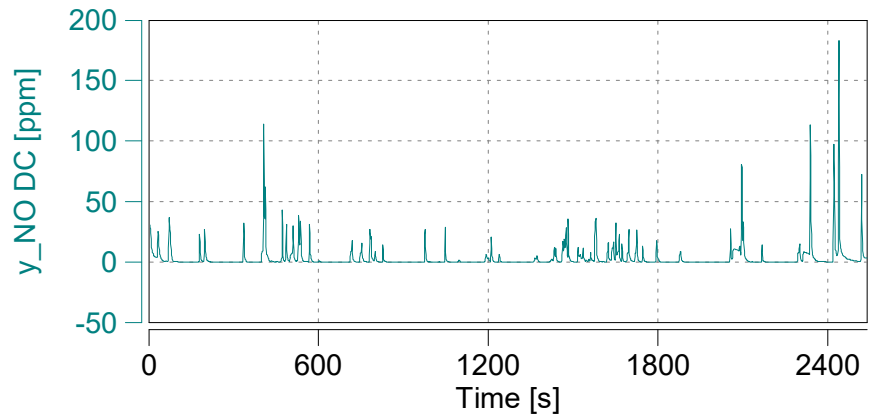
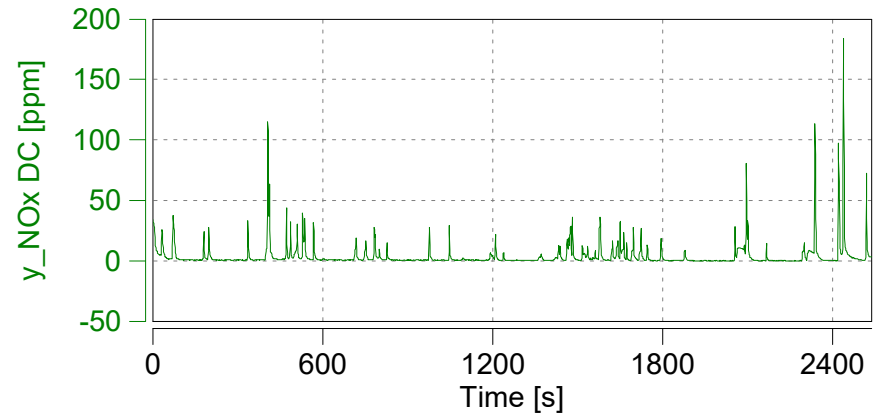
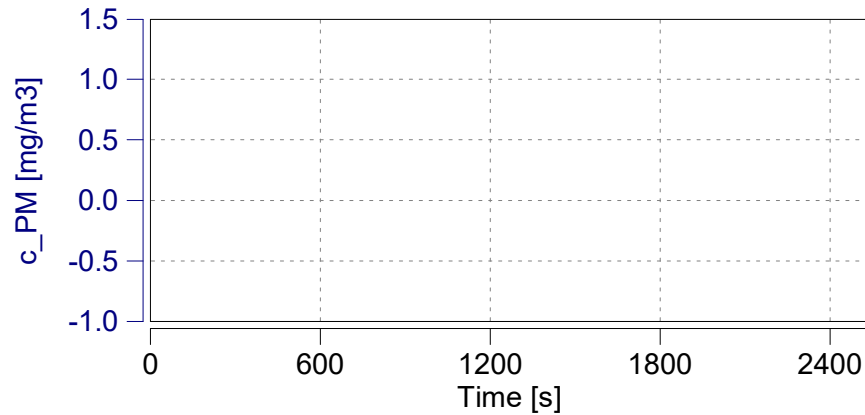
'Highway'

Start Date: 08/05/2019

Start Time: 14:22:53.0

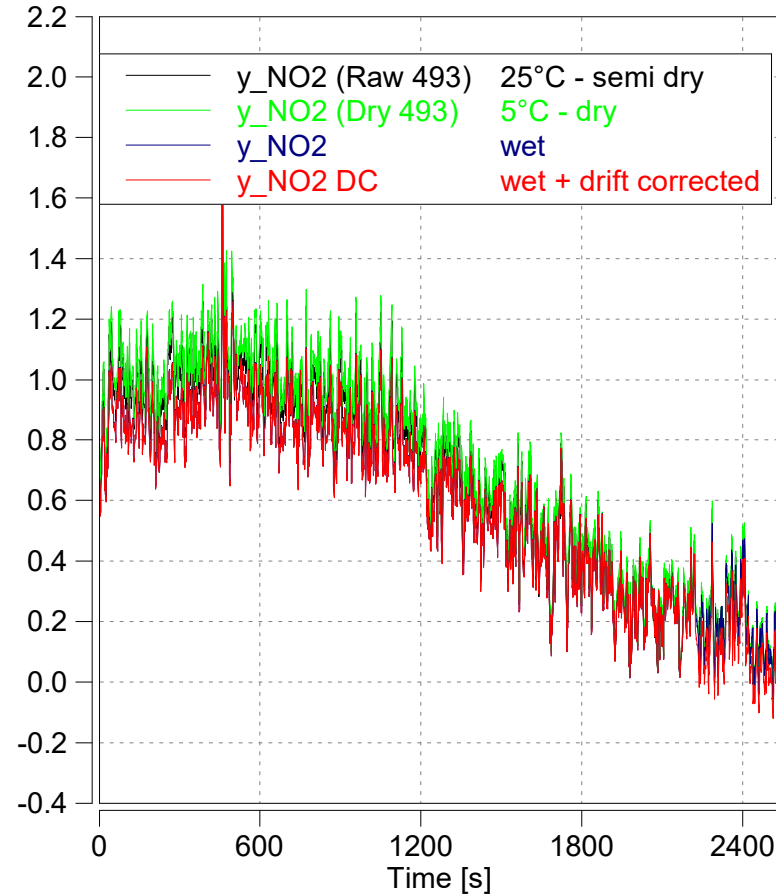
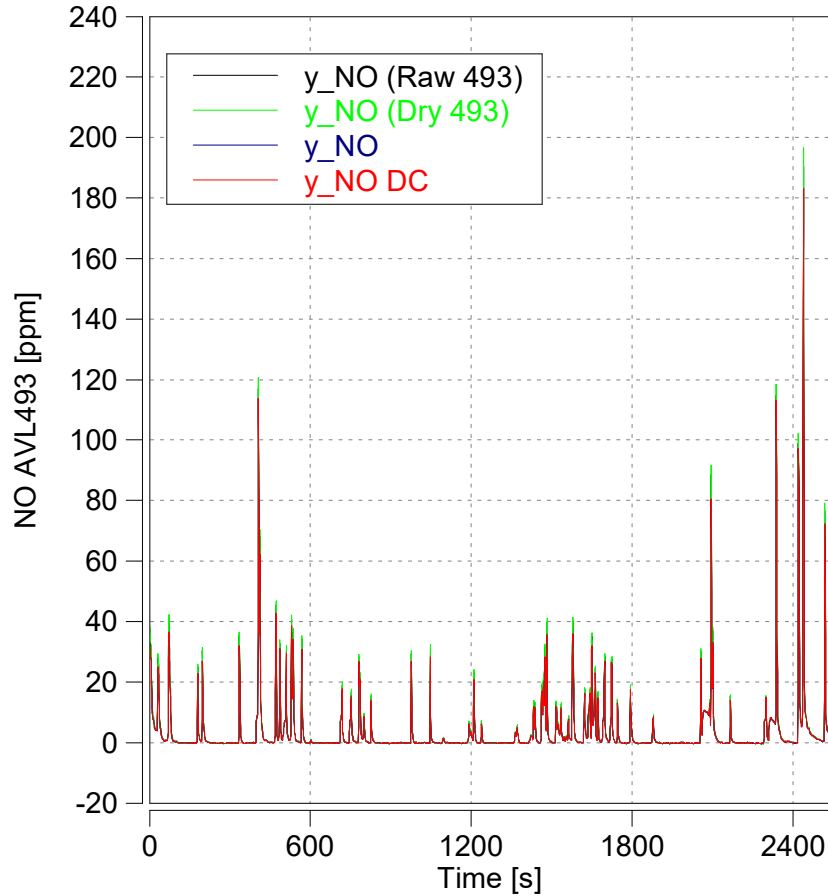


Concerto M.O.V.E., 2018



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

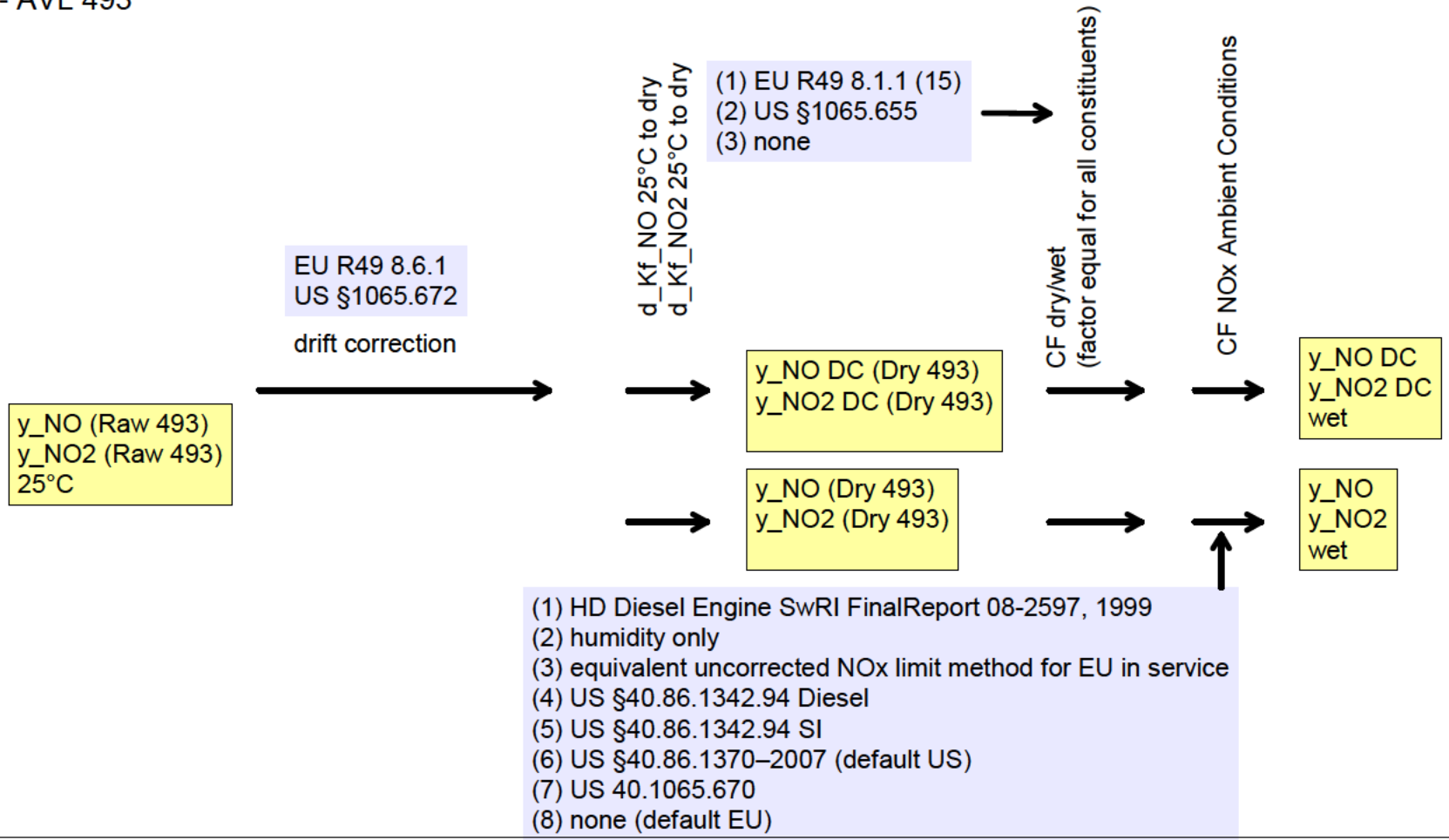


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



Concerto 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

Case: Highway

Page: Corrected Emissions (5)

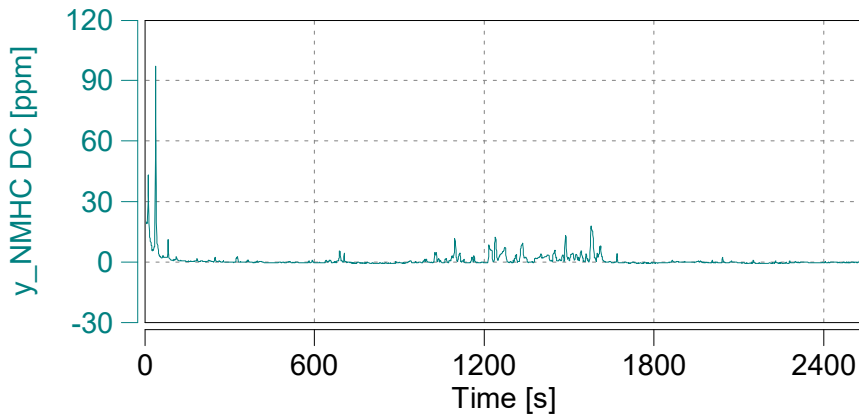
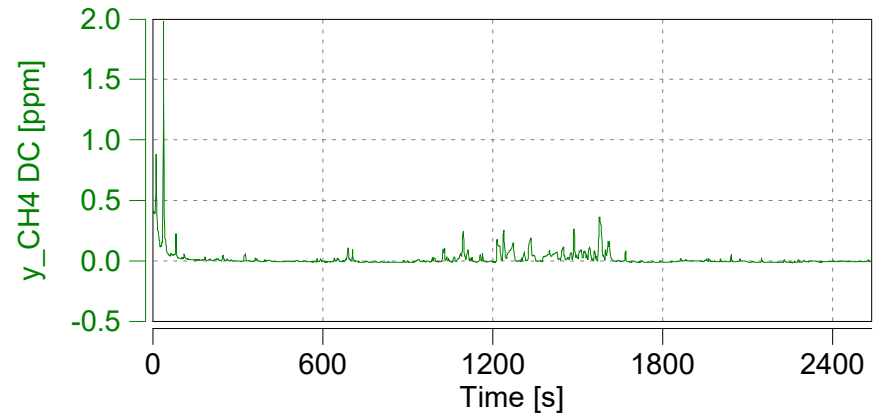
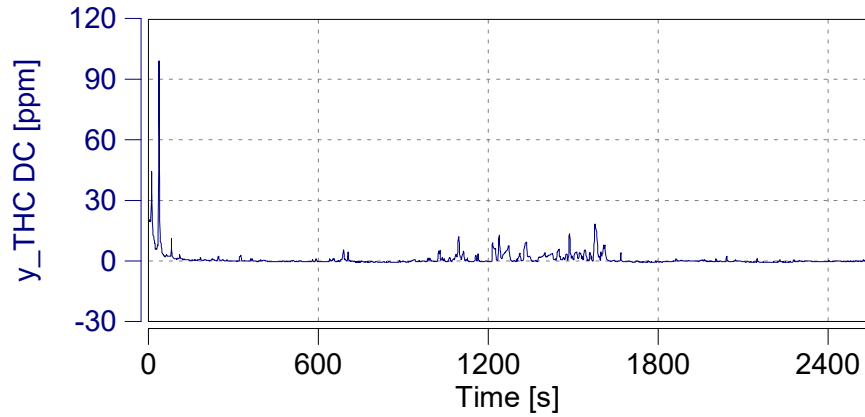
'Highway'

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

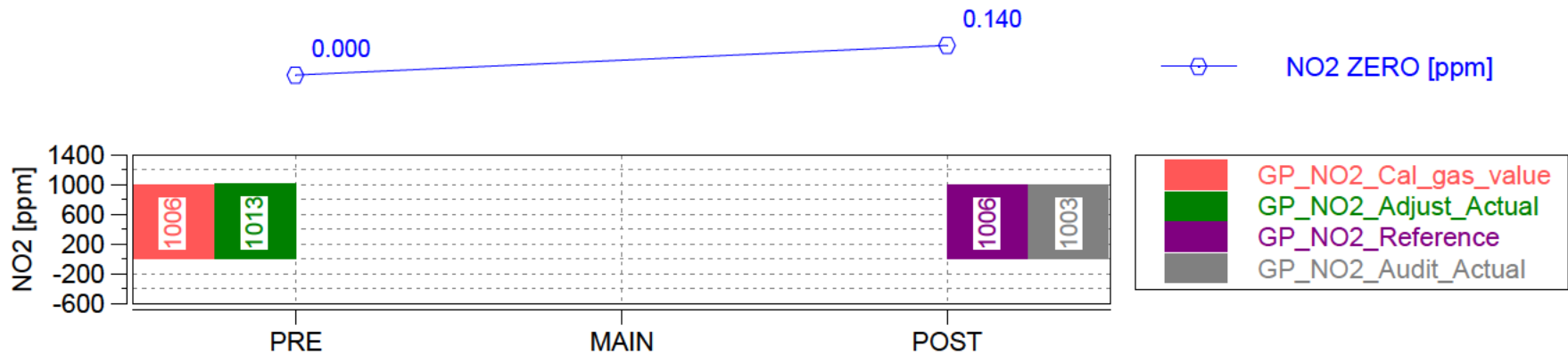
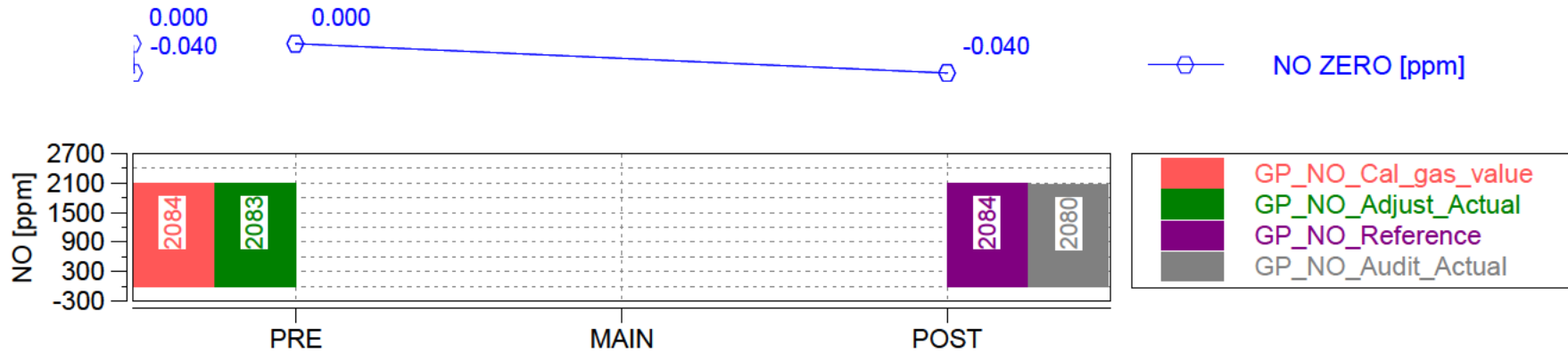
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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

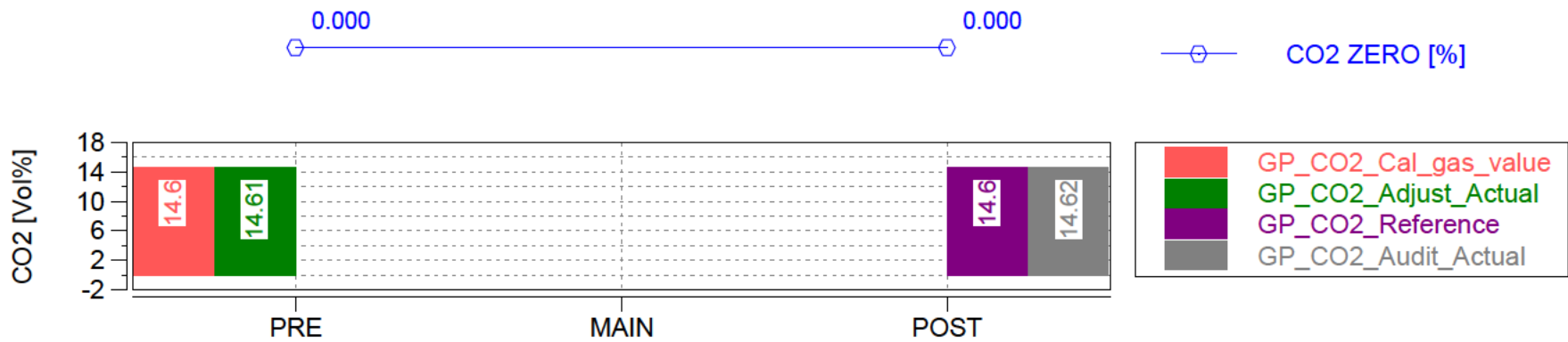
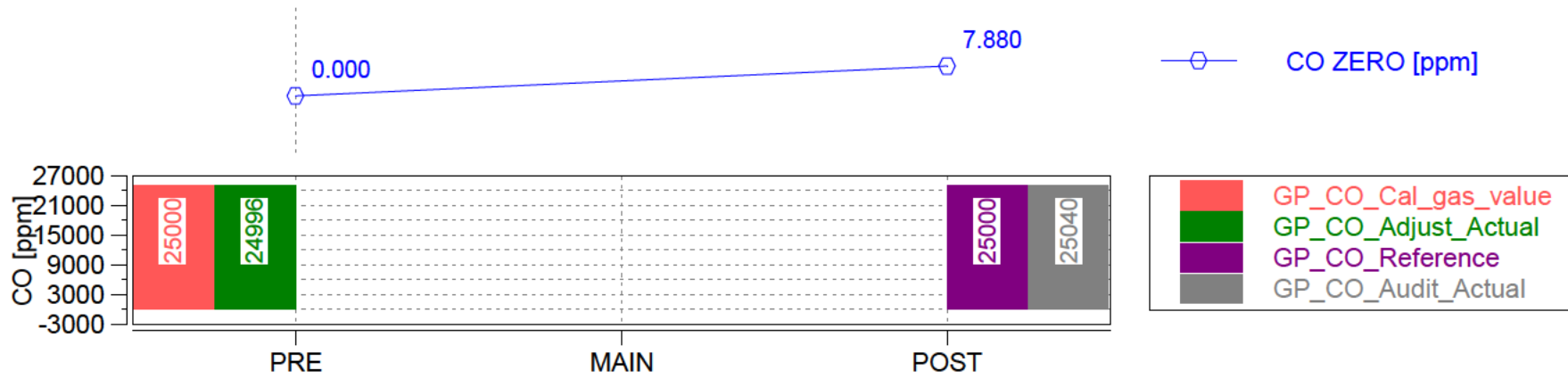
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Vehicle: SQ5 / 3.0 L

Engine: /

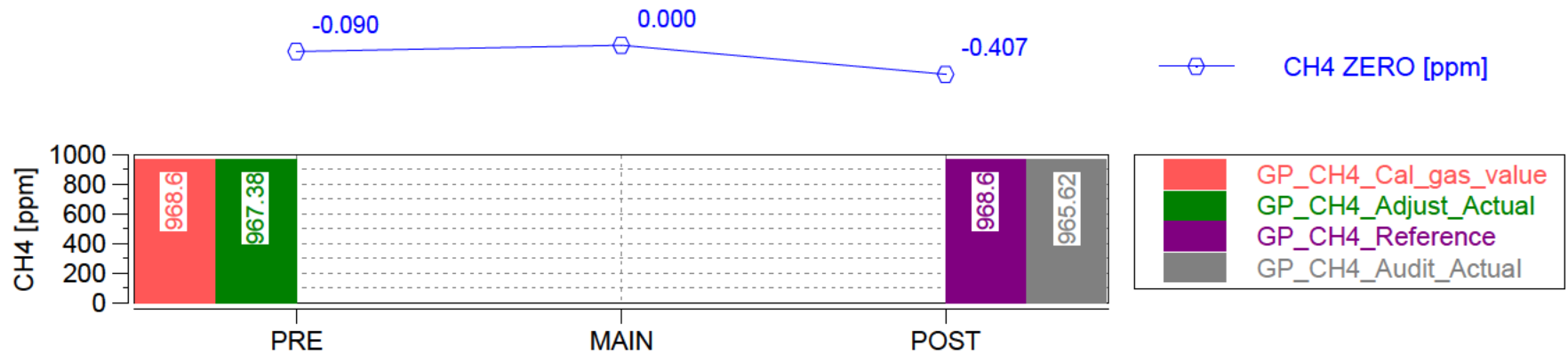
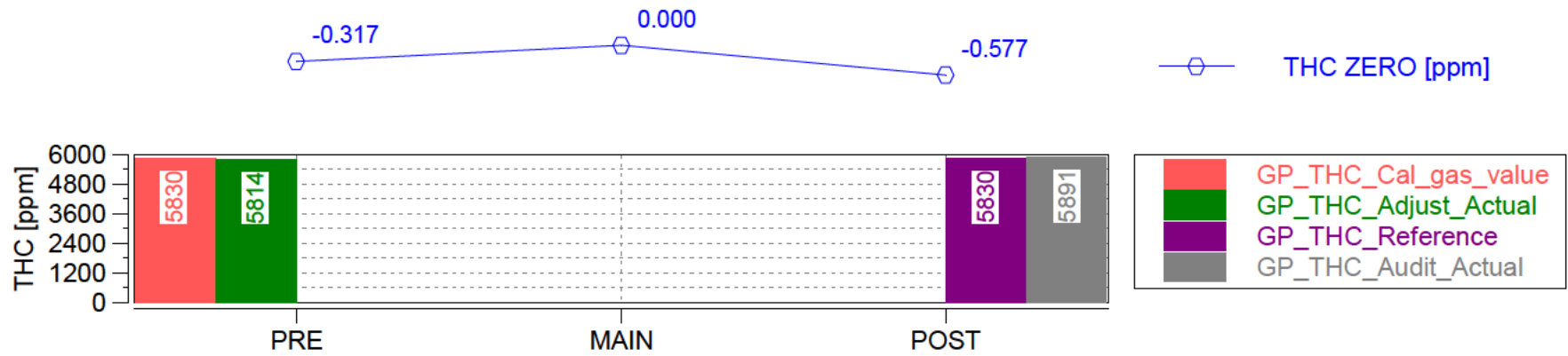
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



Concerto Version: 480 Build 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
			ave CO2 DC	10.33023	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	4.85829	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)	3.72	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.68	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	0.07644	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.32	gall	tot NMHC DC	0.07071	g			
Trip Fuel Cons. Volume US (ac)	1.30	gall	tot CH4 DC	0.00169	g	DS CO2 DC	389.07136	g/mi
			tot CO DC	7.16770	g	DS CO DC	0.24908	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	11196.30081	g	DS THC DC	0.00266	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.11660	g	DS NMHC DC	0.00246	g/mi
Trip Fuel Economy EU (ac)	21.88	mpg_US	tot NO2 DC	0.10661	g	DS CH4 DC	0.00006	g/mi
Trip Fuel Economy US (ac)	22.11	mpg_US	tot NOx DC	0.22320	g	DS NO DC (d)	0.00405	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00370	g/mi
Trip Av. Eng. Speed	1449.14	rpm	tot Soot meas	n/a	g	DS NOx DC	0.00776	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	62.48	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 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	82.99	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	43.27	%	Trip Av. Veh. Speed	35.39373	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	9.70277	%	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

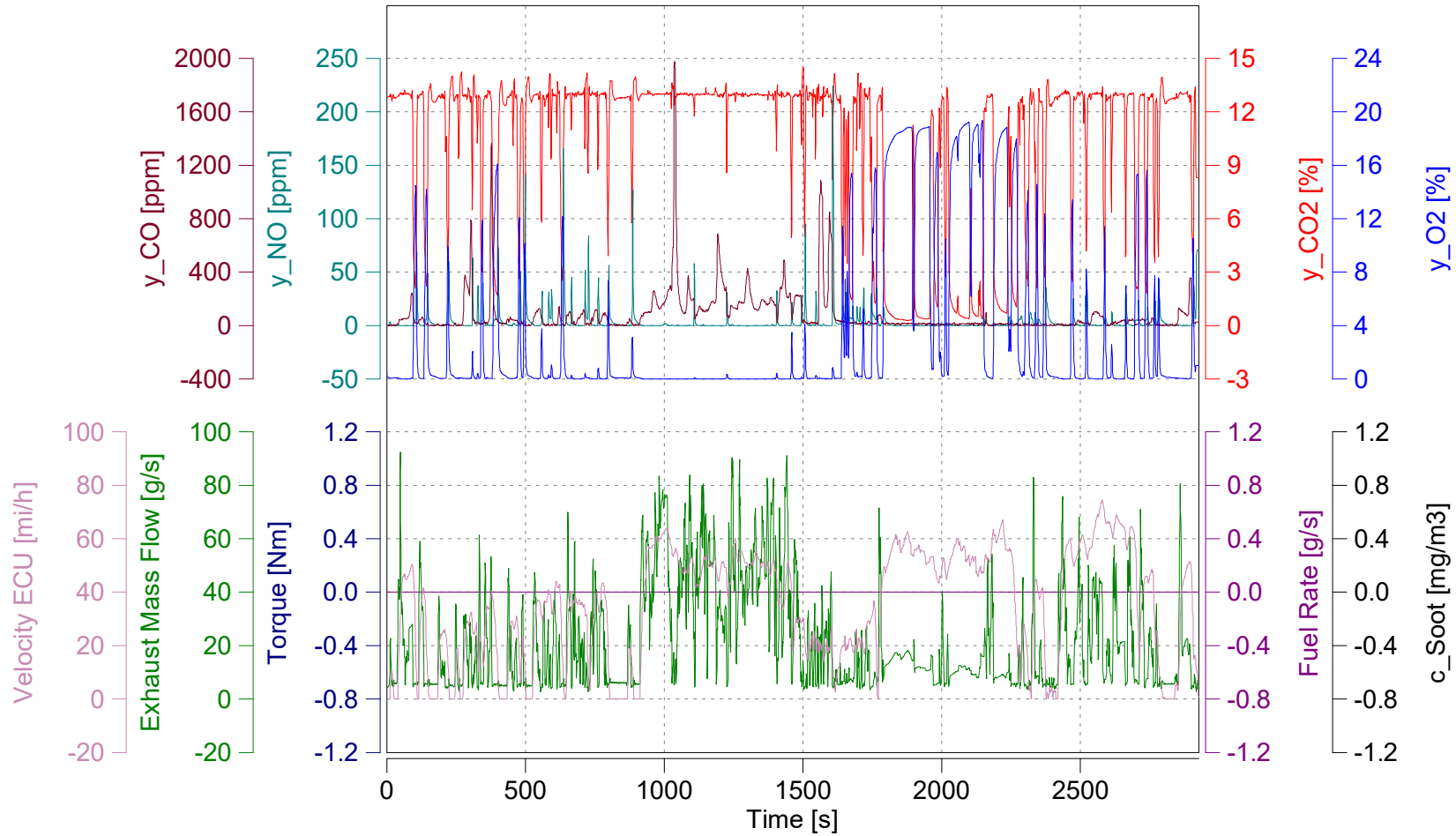
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

Vehicle: SQ5 / 3.0 L

Engine: /

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

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



Concerto Version: 480 Build 316, Serial Number: 1120

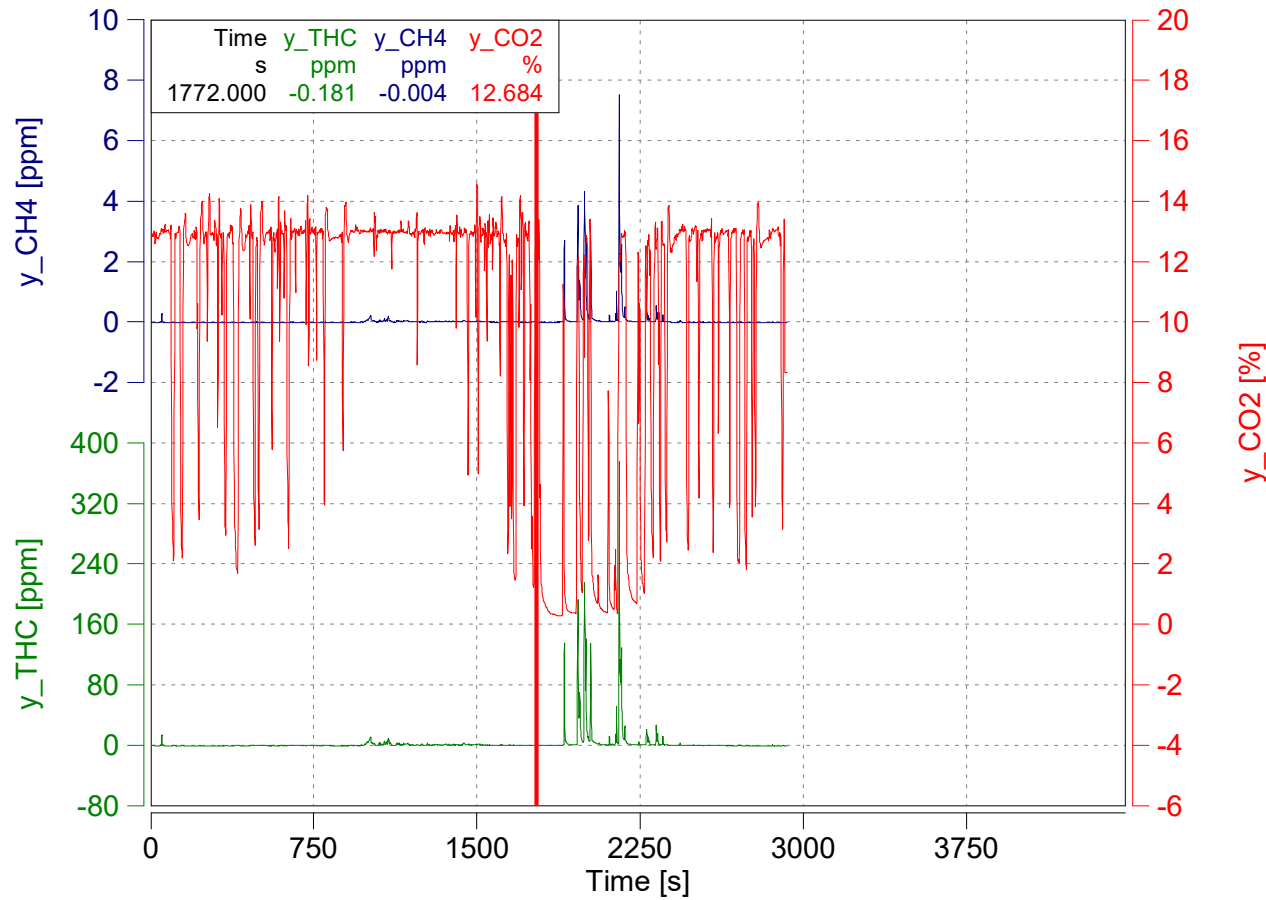
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Vehicle: SQ5 / 3.0 L

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

Case: Mountain

Page: Ambient Conditions

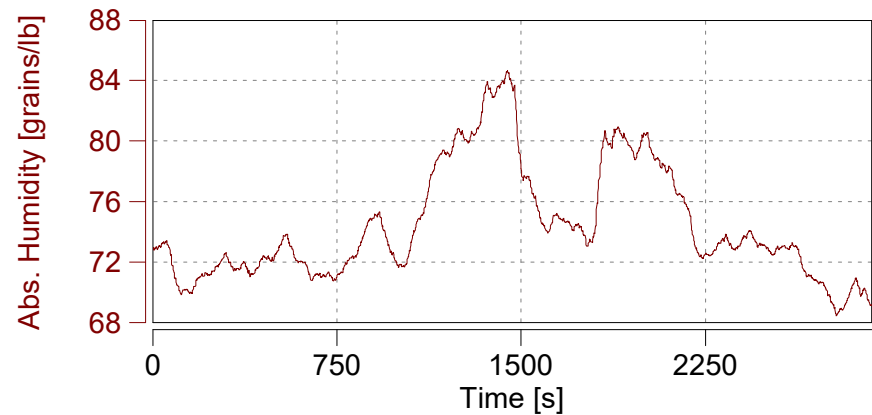
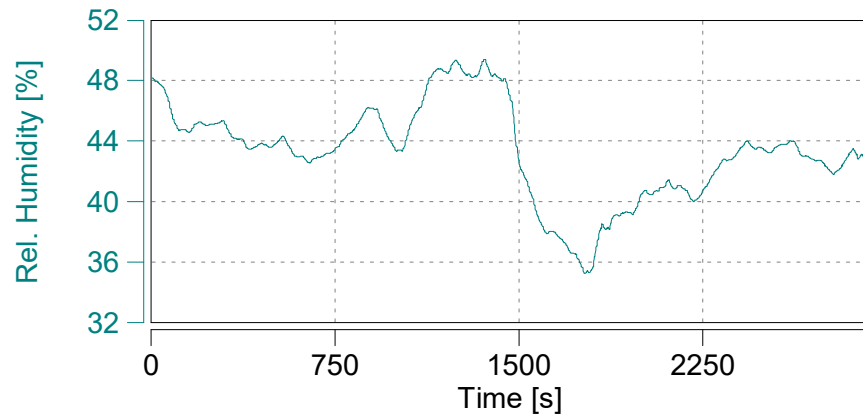
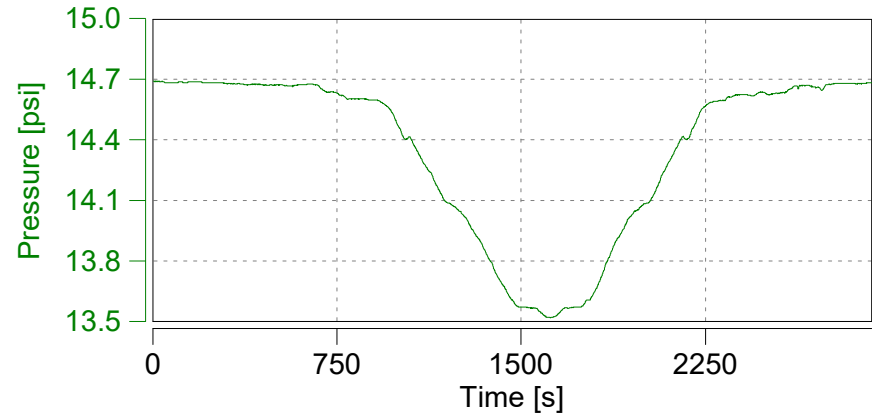
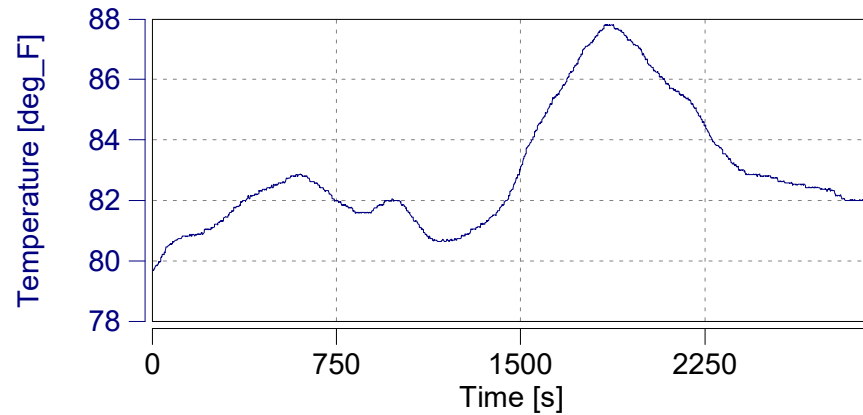
'Mountain'

Start Date: 08/05/2019

Start Time: 14:22:53.0

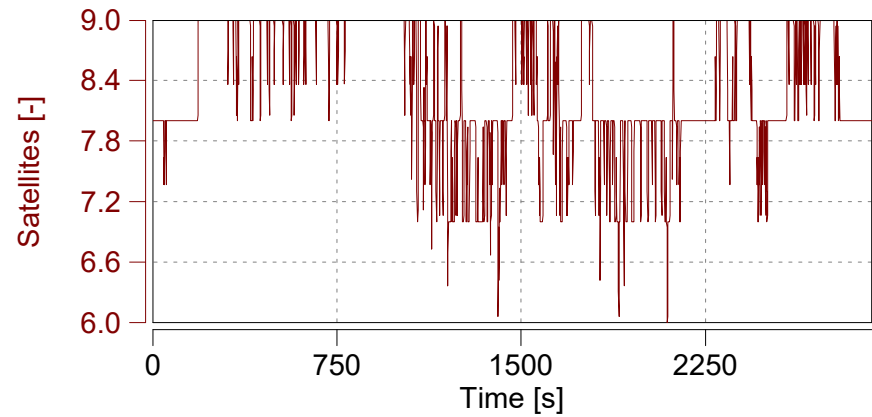
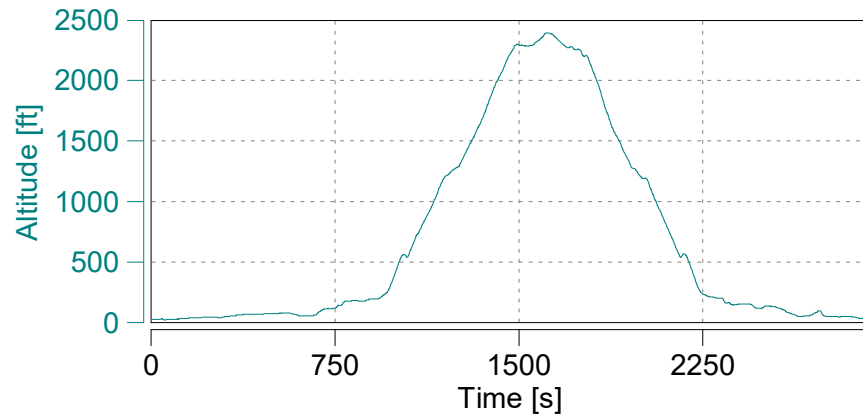
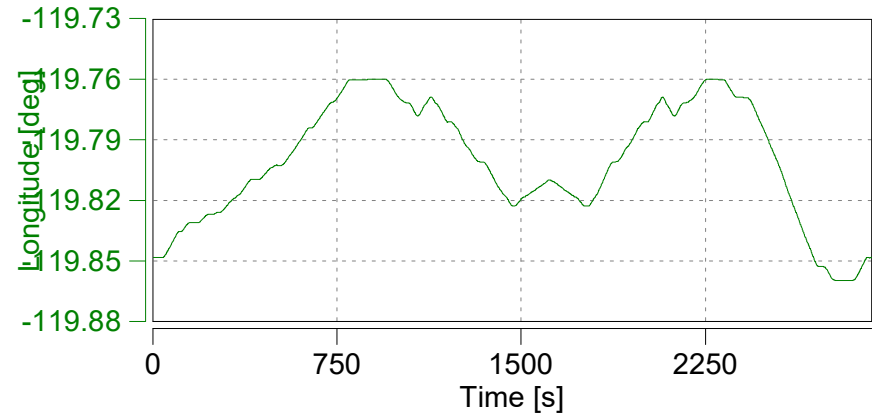
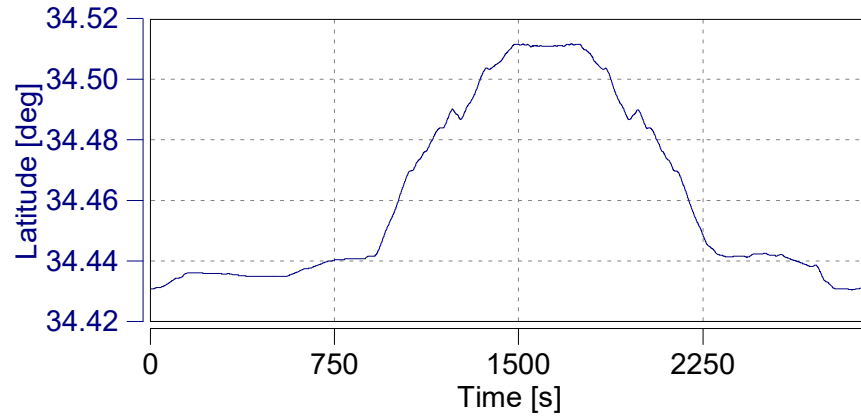


Concerto M.O.V.E., 2018



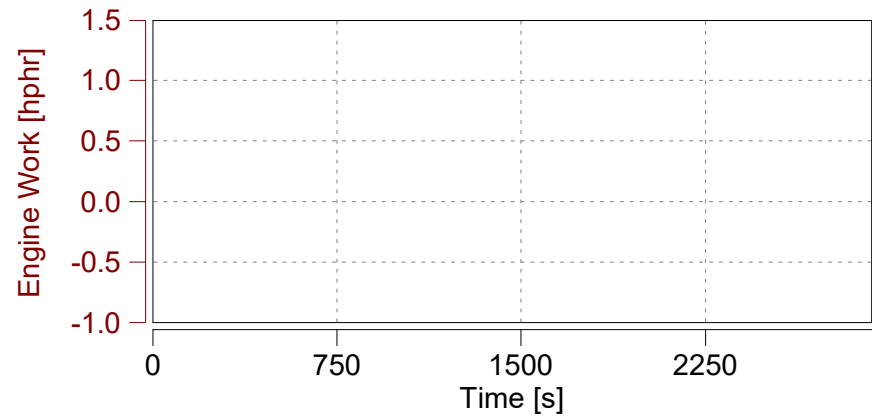
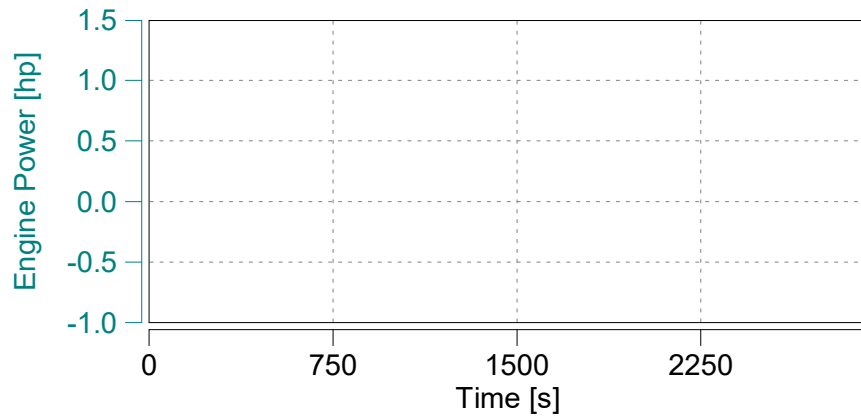
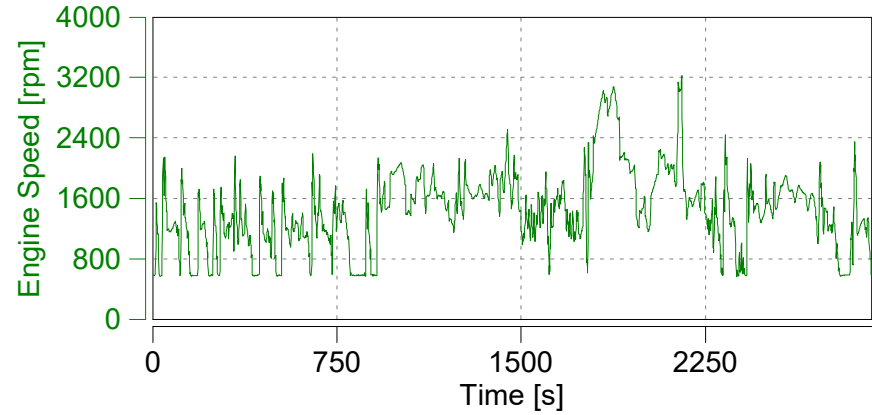
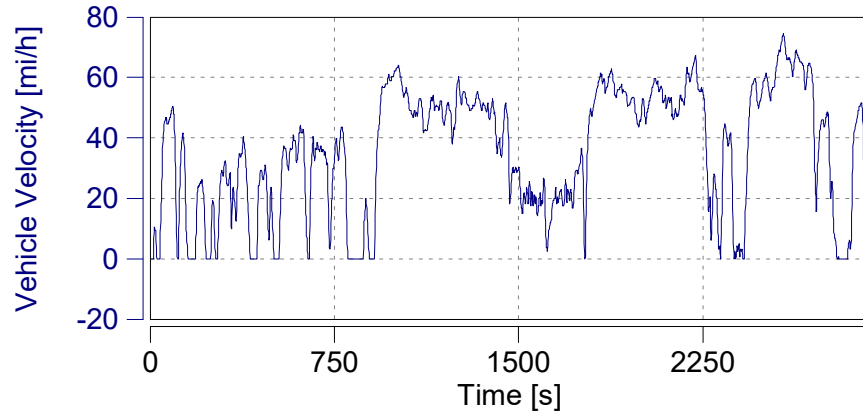
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



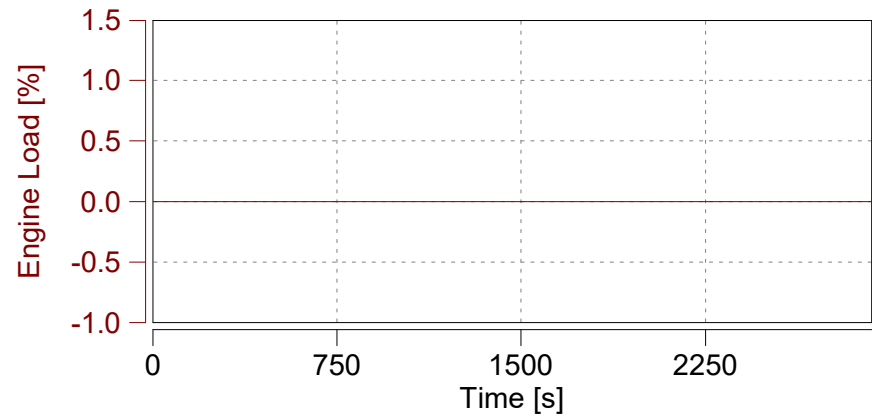
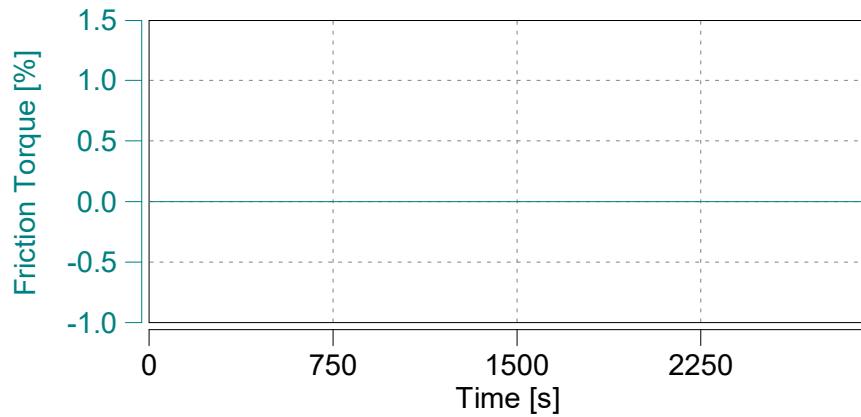
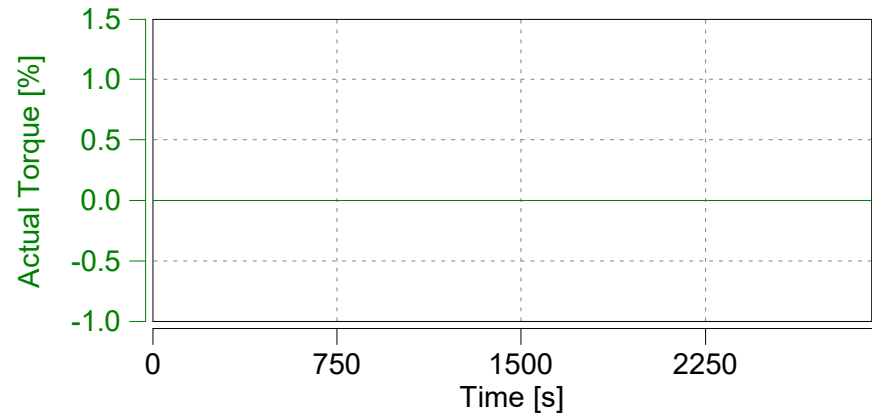
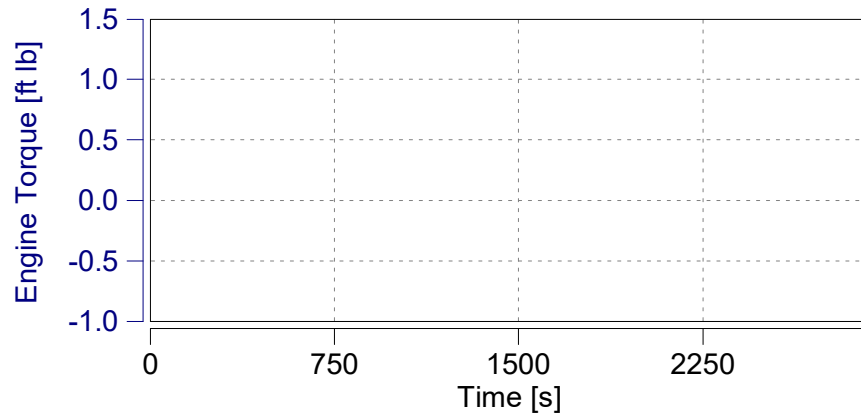
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



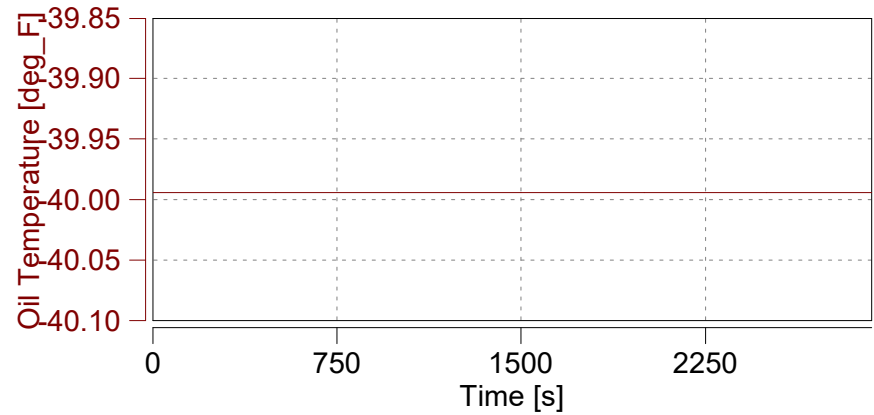
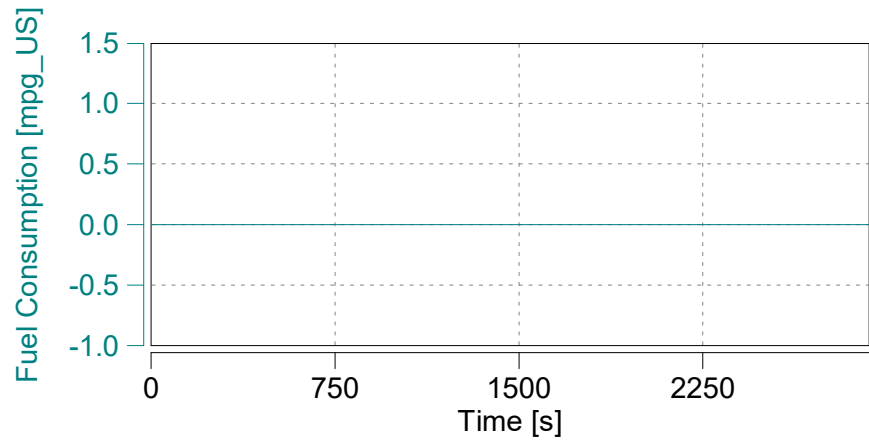
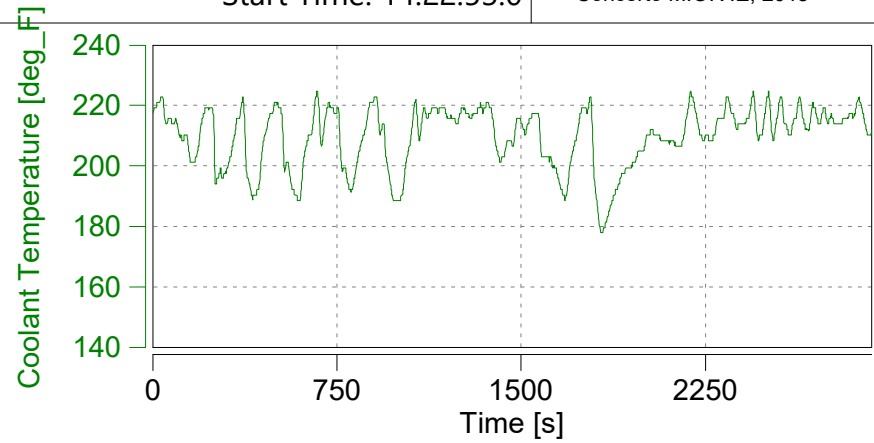
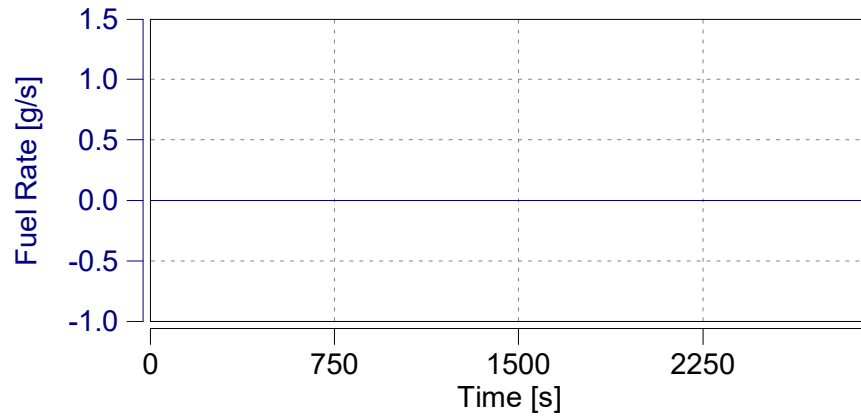
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



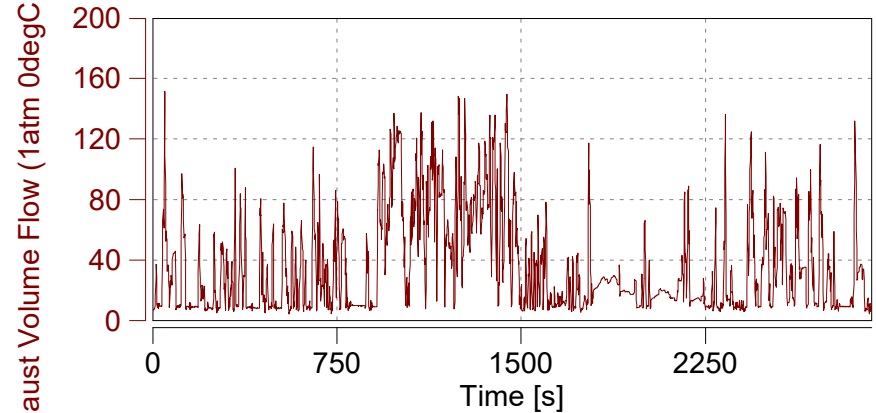
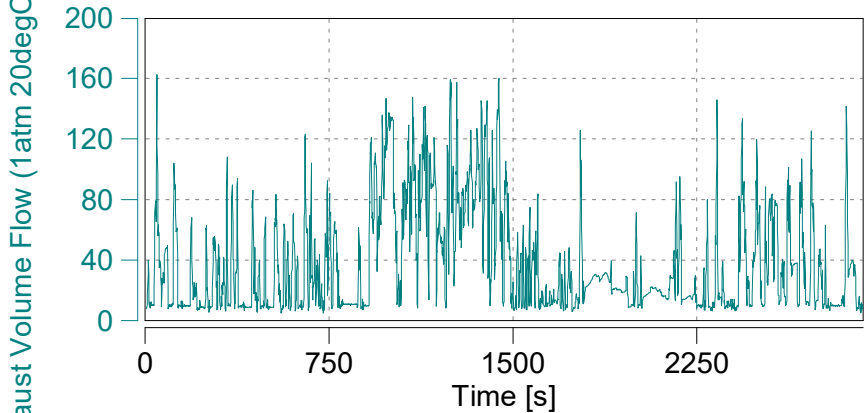
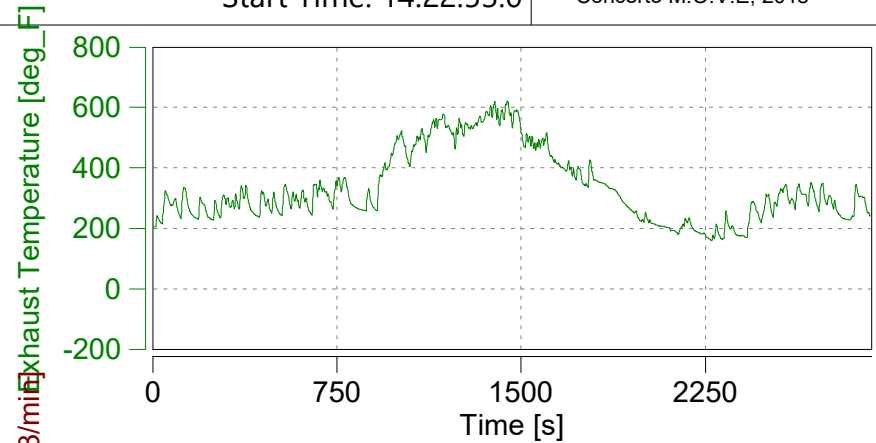
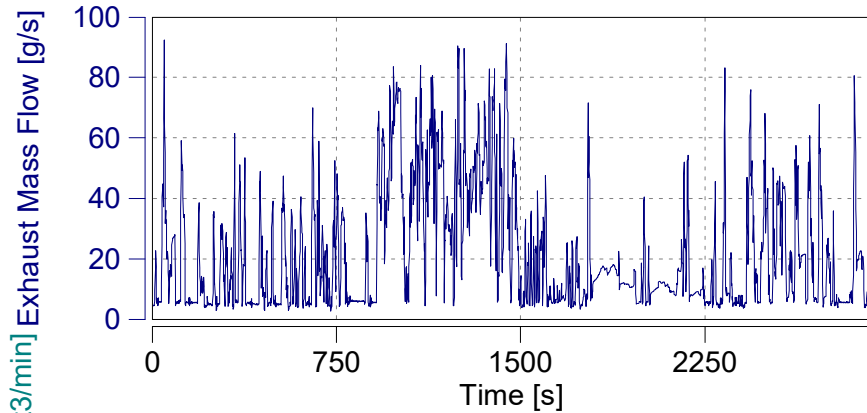
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



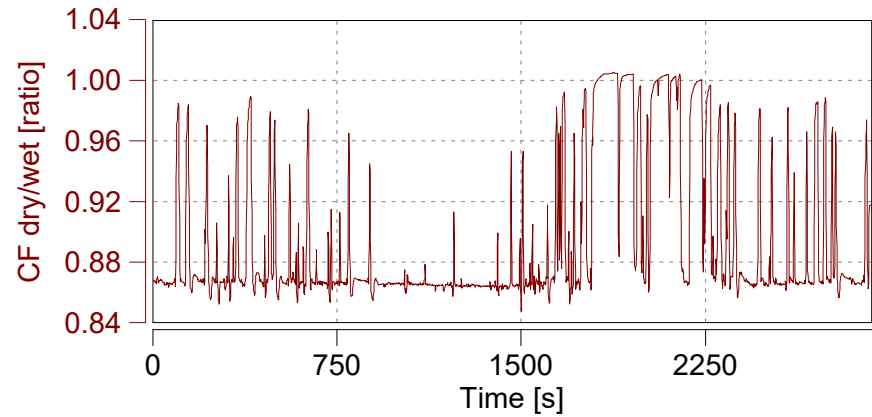
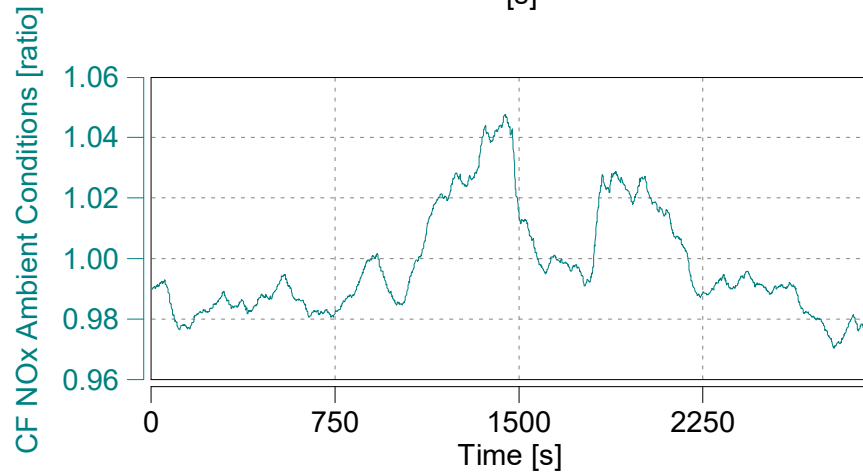
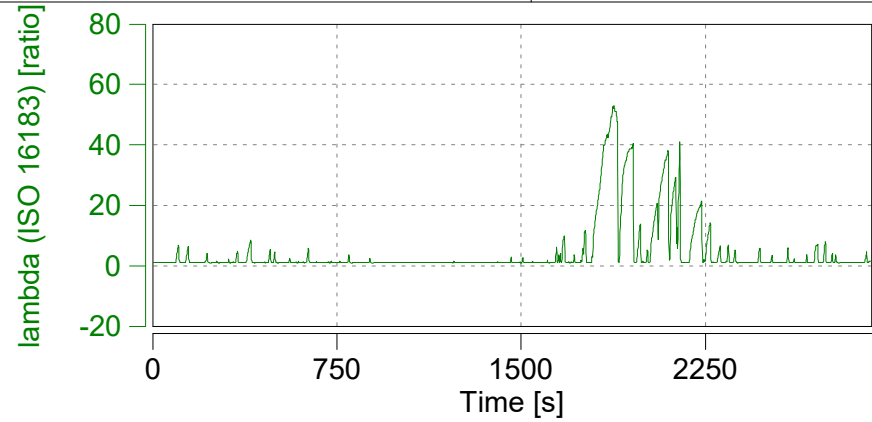
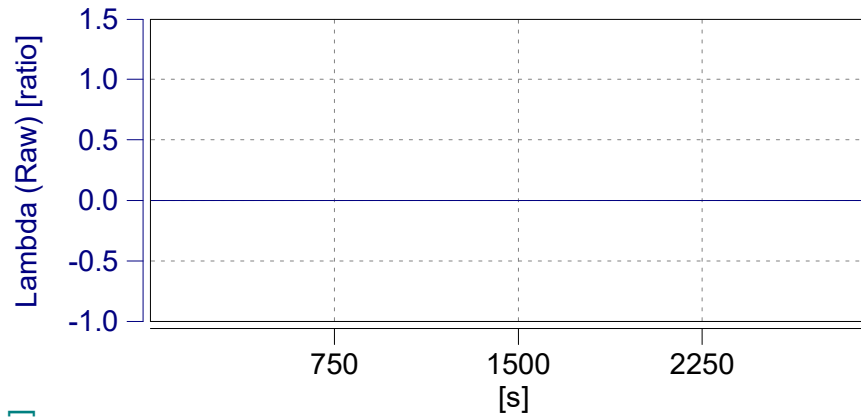
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R1_

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
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

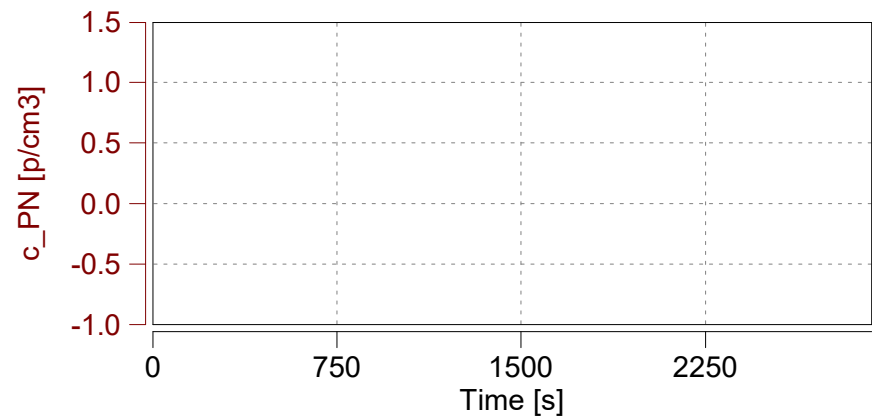
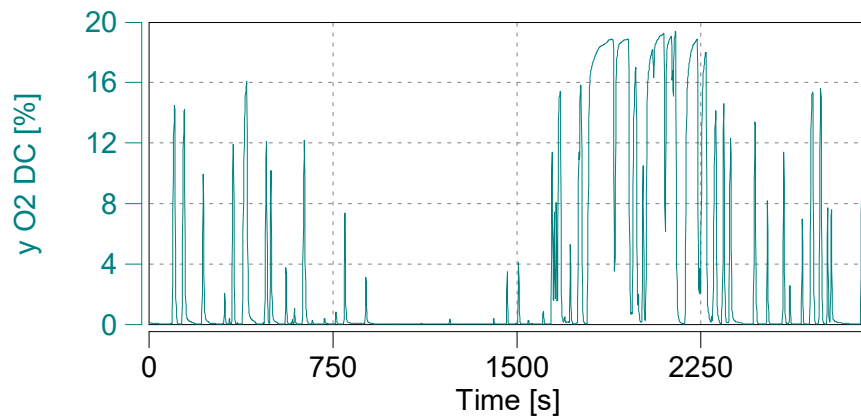
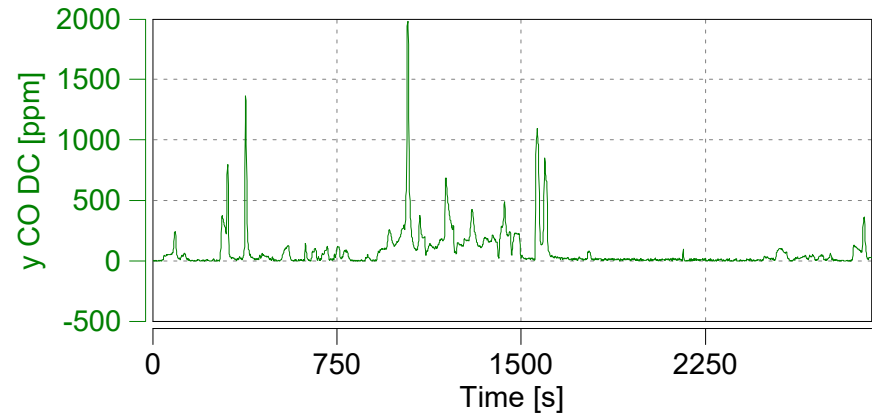
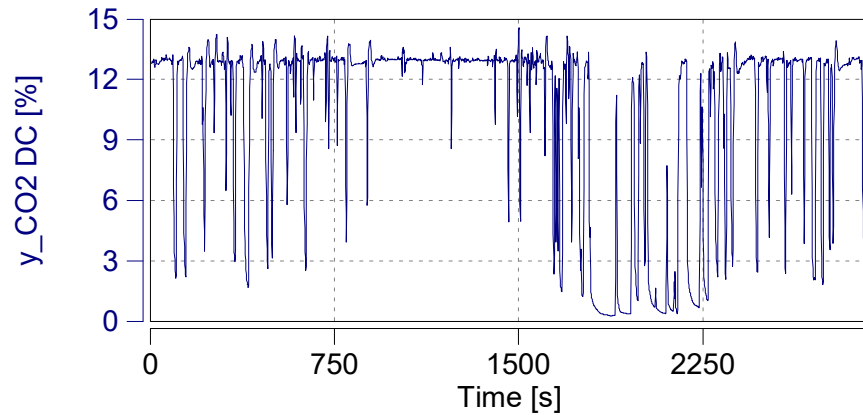
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Vehicle: SQ5 / 3.0 L

Engine: /

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

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



Concerto Version: 480 Build 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: Corrected Emissions (2)

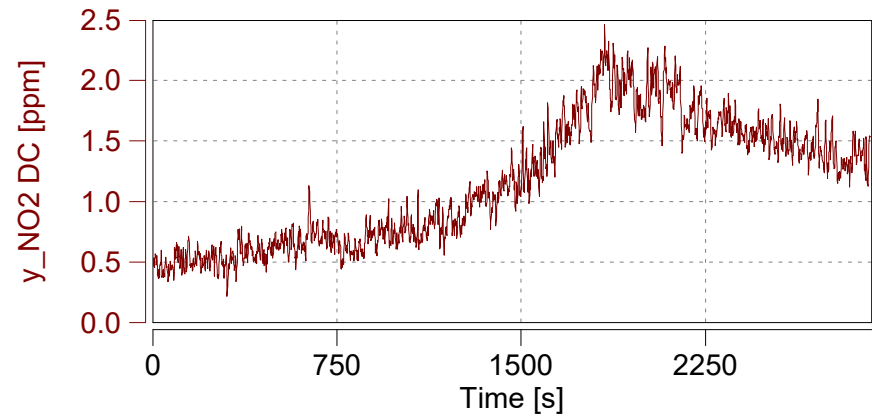
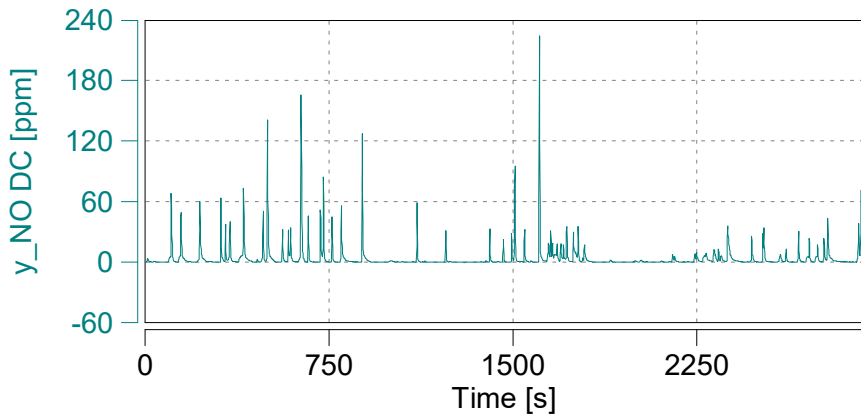
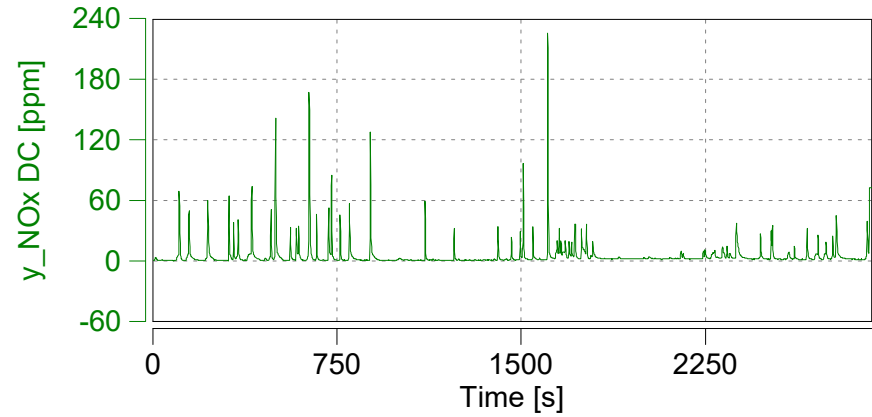
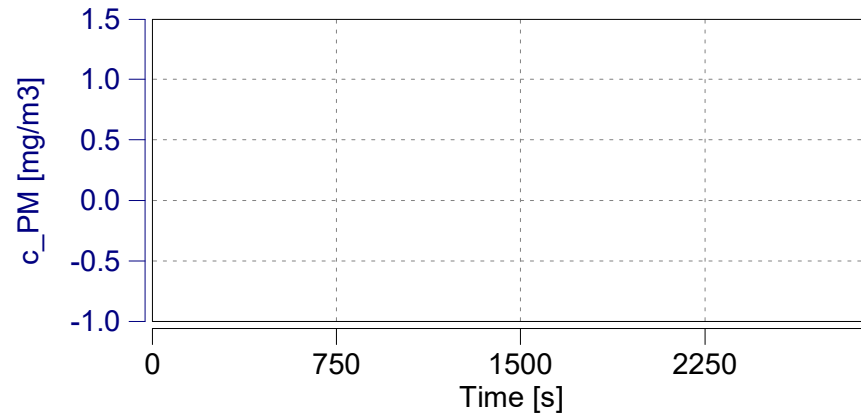
'Mountain'

Start Date: 08/05/2019

Start Time: 14:22:53.0

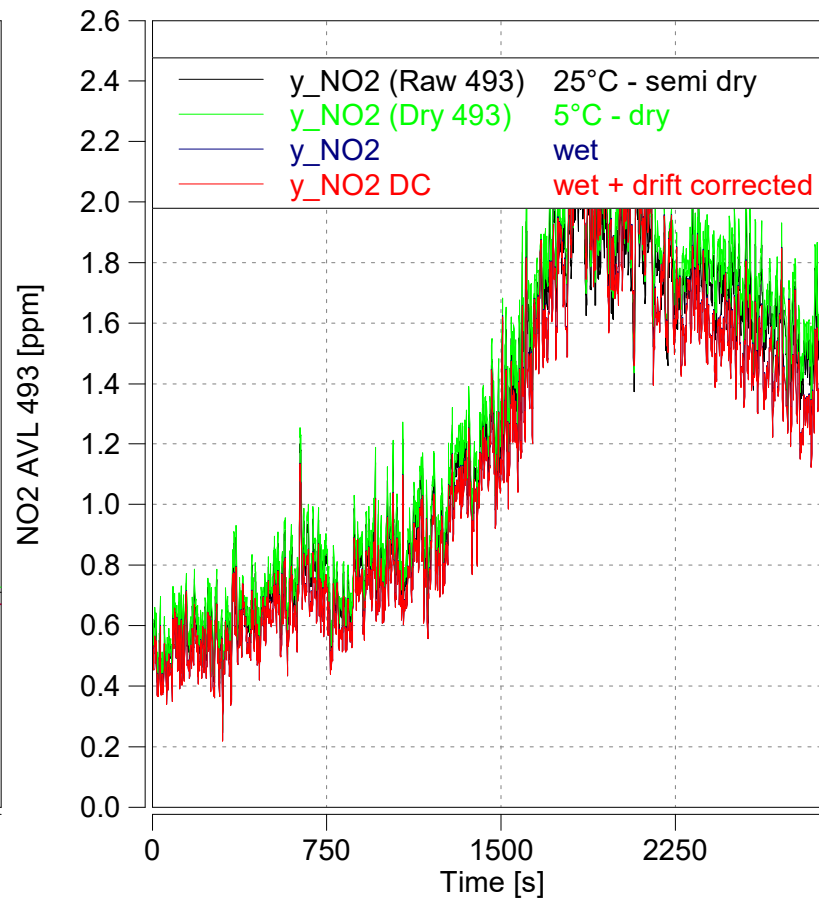
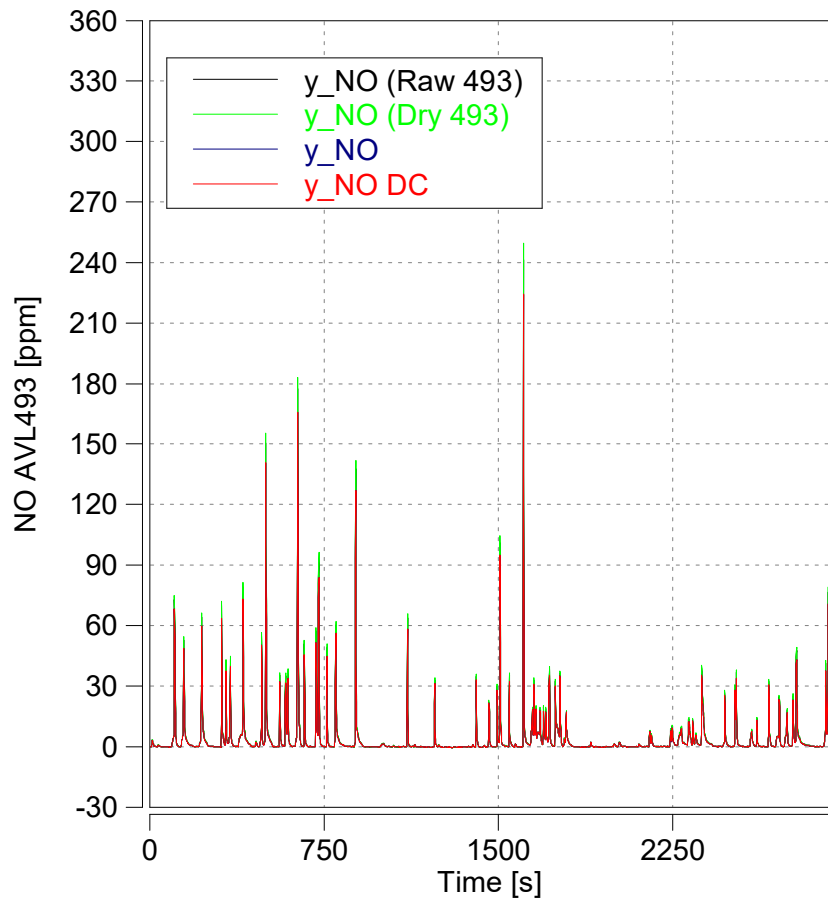


Concerto M.O.V.E., 2018



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

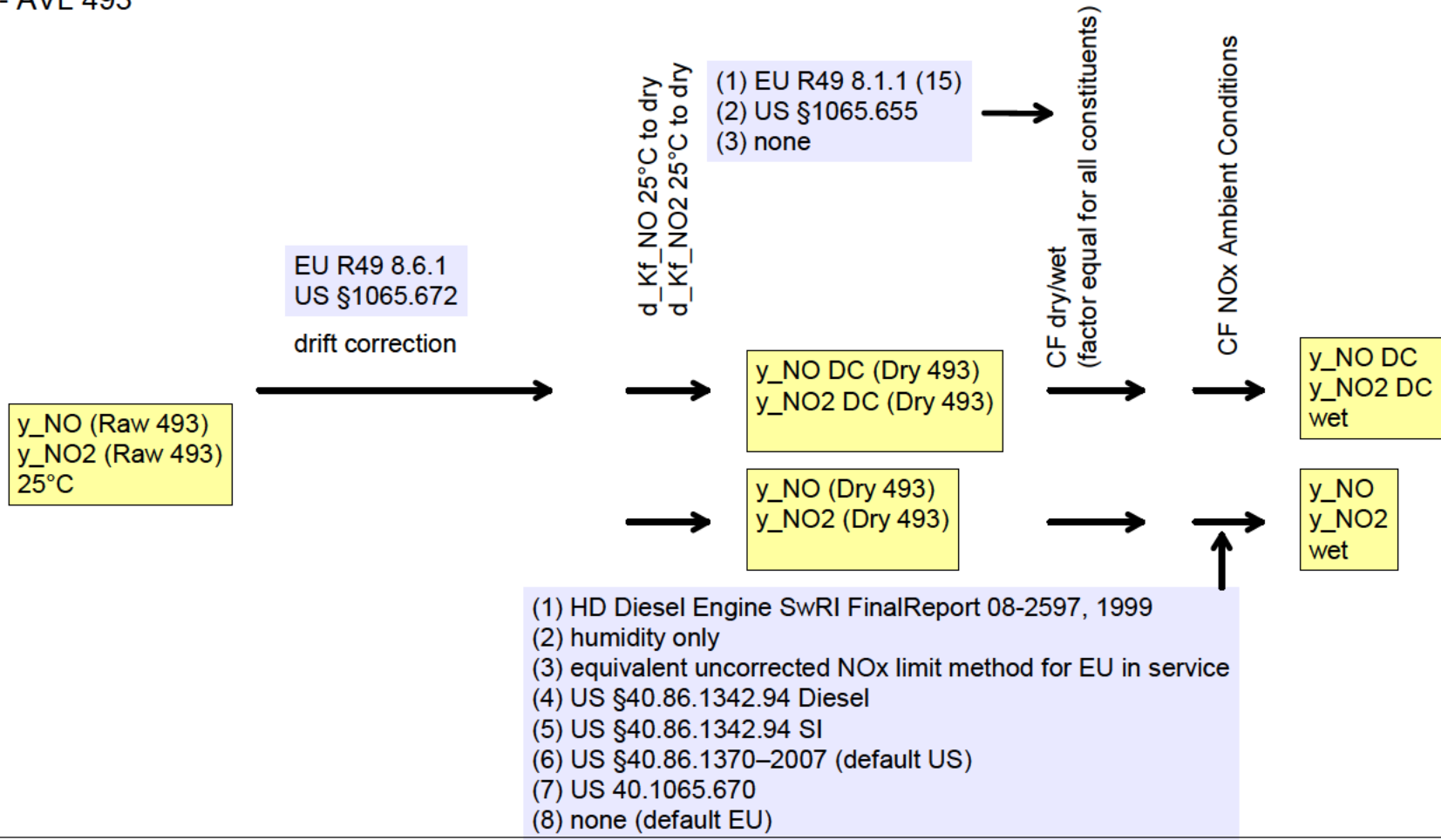


Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



Concerto Version: 480 Build 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: Corrected Emissions (5)

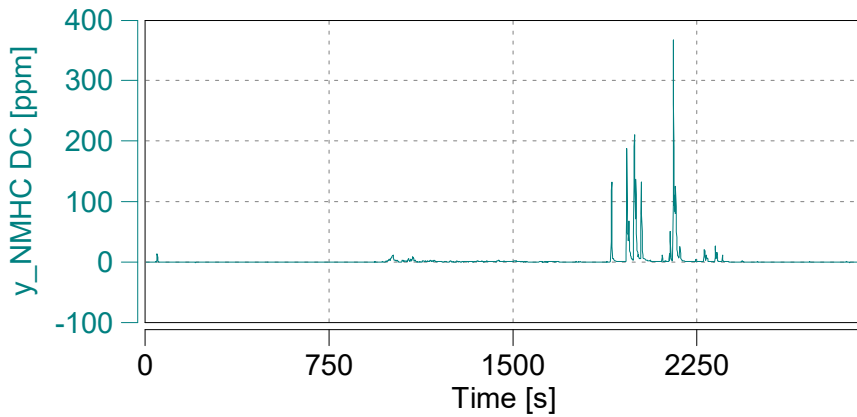
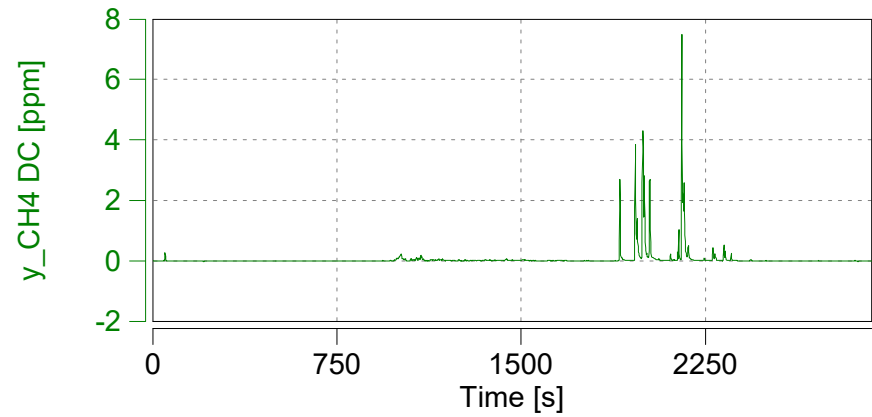
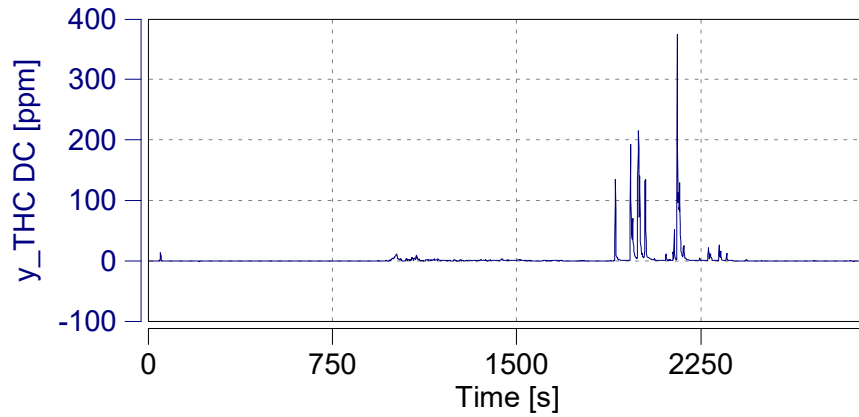
'Mountain'

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

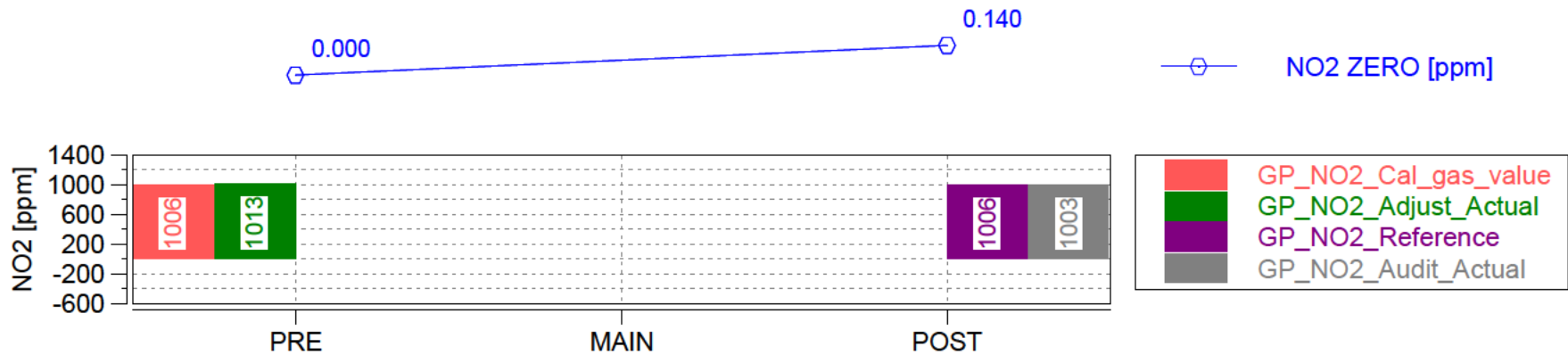
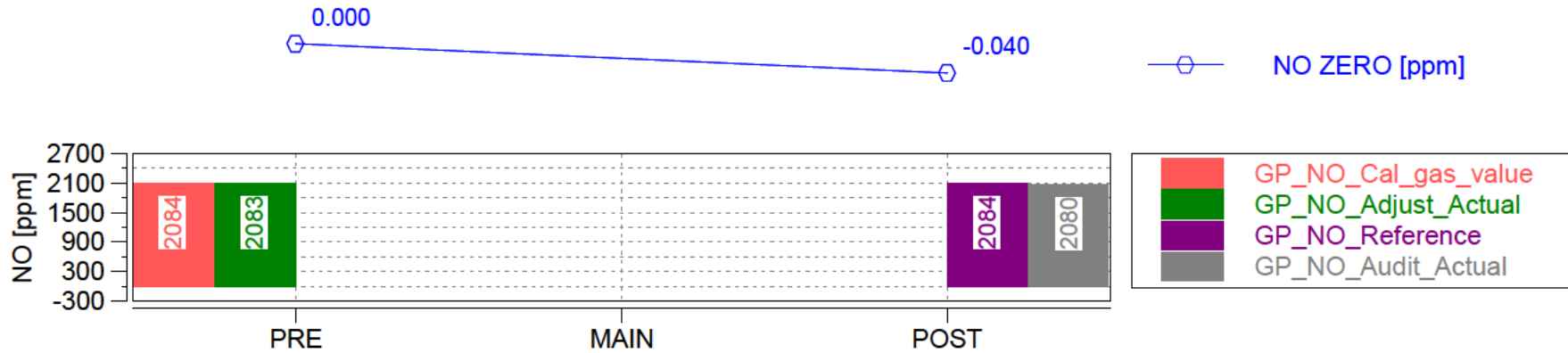
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Vehicle: SQ5 / 3.0 L

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

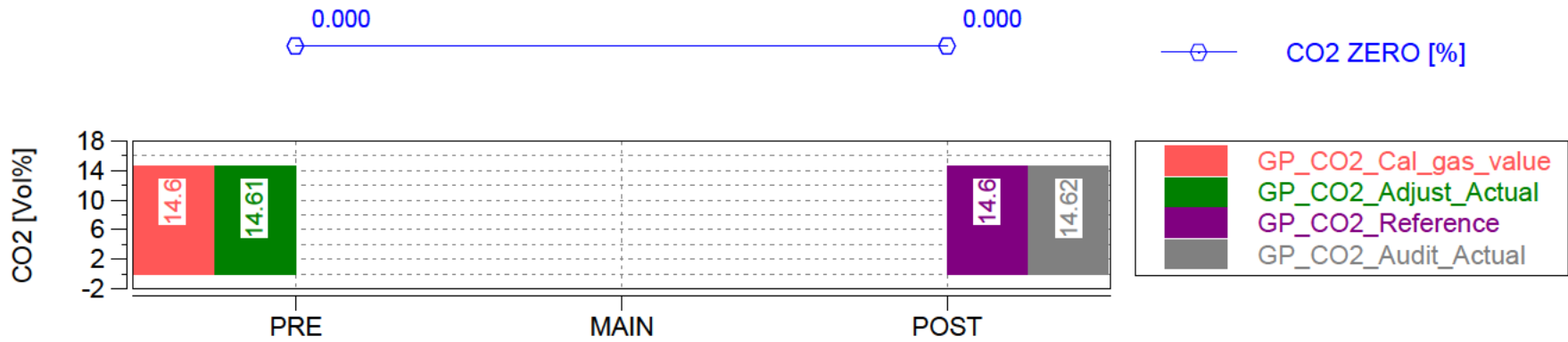
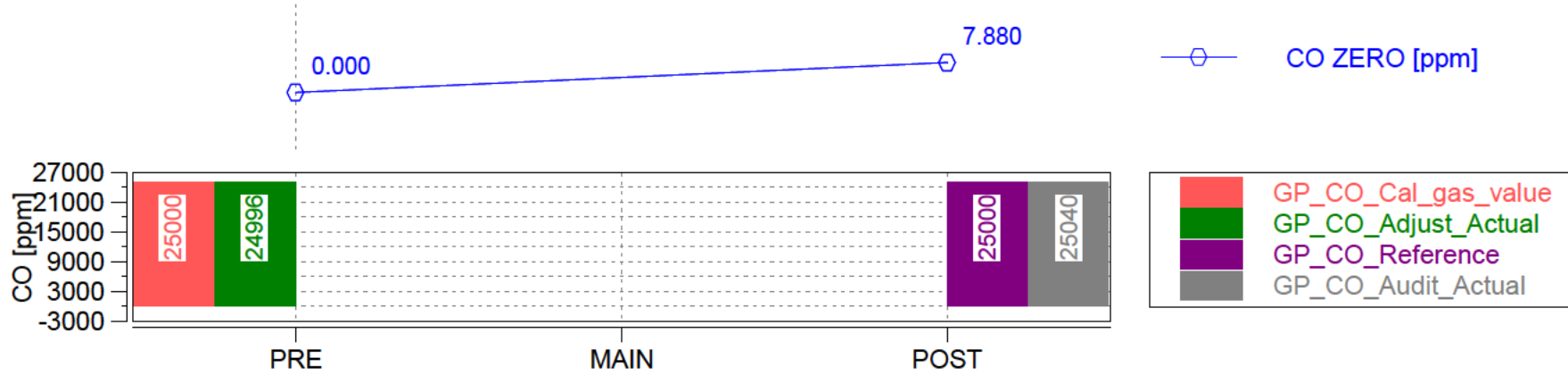
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Vehicle: SQ5 / 3.0 L

Engine: /

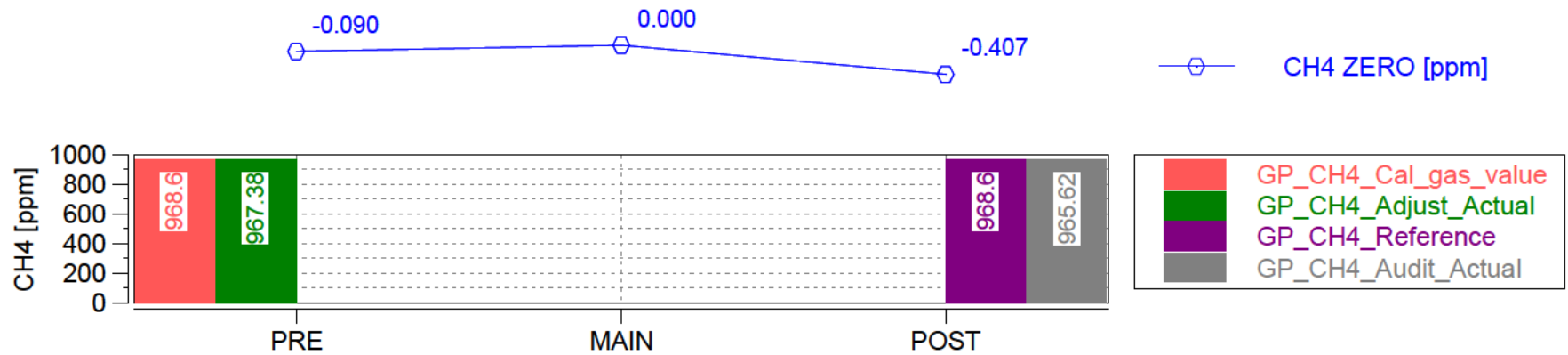
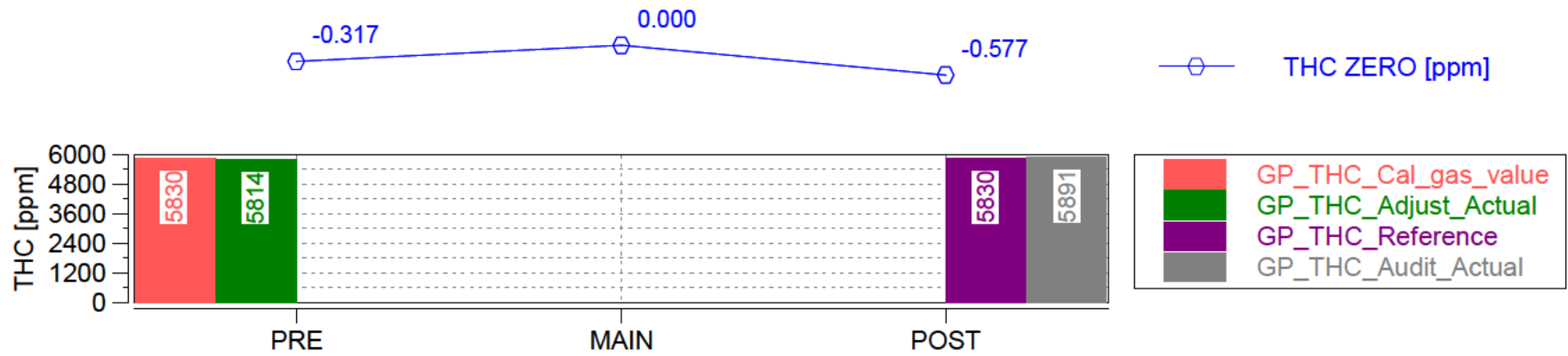
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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
			ave CO2 DC	12.01291	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	2.91932	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)	2.89	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	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 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	0.01860	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.02	gall	tot NMHC DC	0.01720	g			
Trip Fuel Cons. Volume US (ac)	1.01	gall	tot CH4 DC	0.00041	g	DS CO2 DC	553.05305	g/mi
			tot CO DC	0.15148	g	DS CO DC	0.00961	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	8717.28351	g	DS THC DC	0.00118	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.17704	g	DS NMHC DC	0.00109	g/mi
Trip Fuel Economy EU (ac)	15.42	mpg_US	tot NO2 DC	0.00013	g	DS CH4 DC	0.00003	g/mi
Trip Fuel Economy US (ac)	15.57	mpg_US	tot NOx DC	0.17716	g	DS NO DC (d)	0.01123	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00001	g/mi
Trip Av. Eng. Speed	922.27	rpm	tot Soot meas	n/a	g	DS NOx DC	0.01124	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	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 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	73.59	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	60.79	%	Trip Av. Veh. Speed	11.29199	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	36.39077	%	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

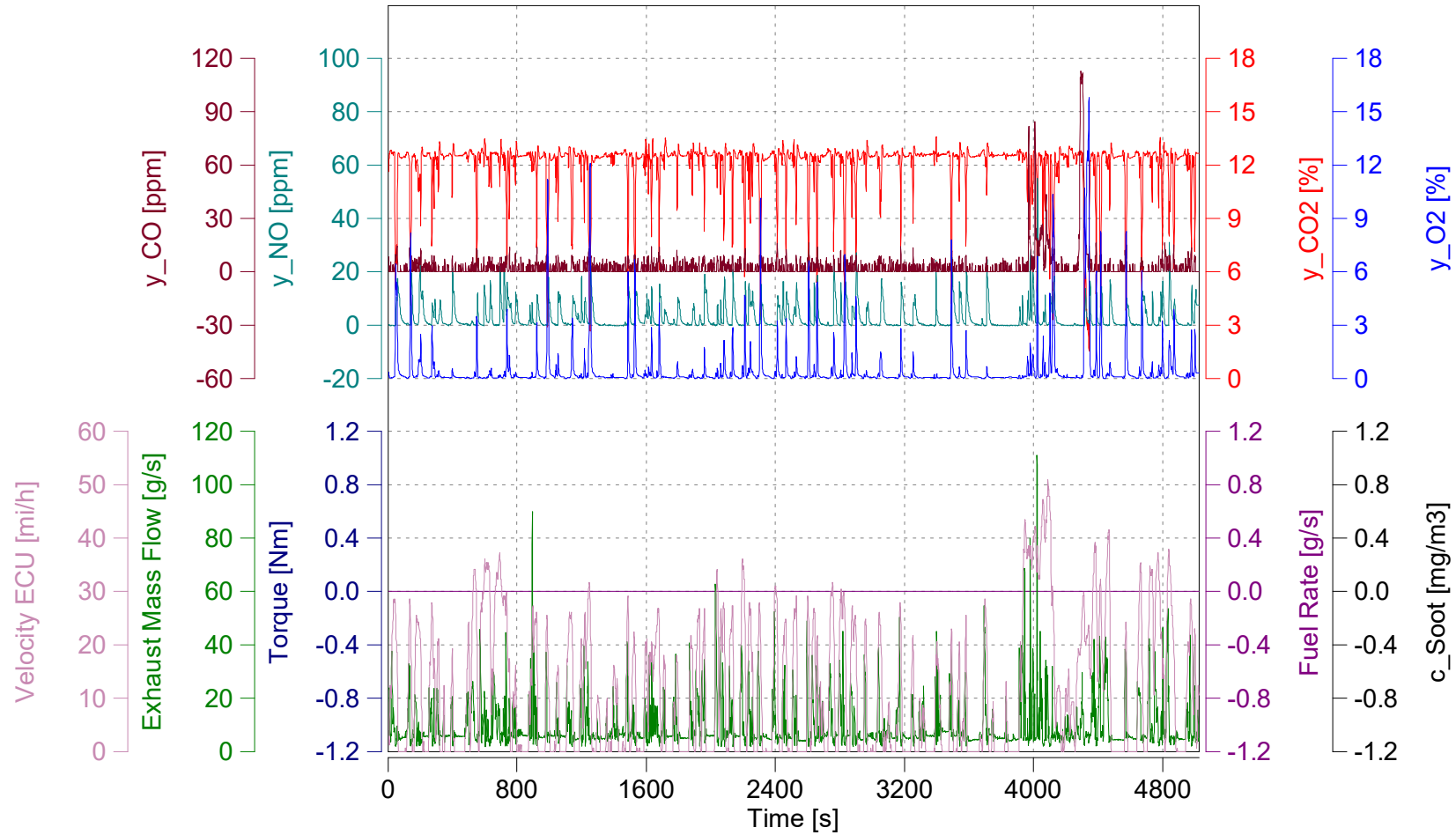
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Vehicle: A6 / 3.0 L

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

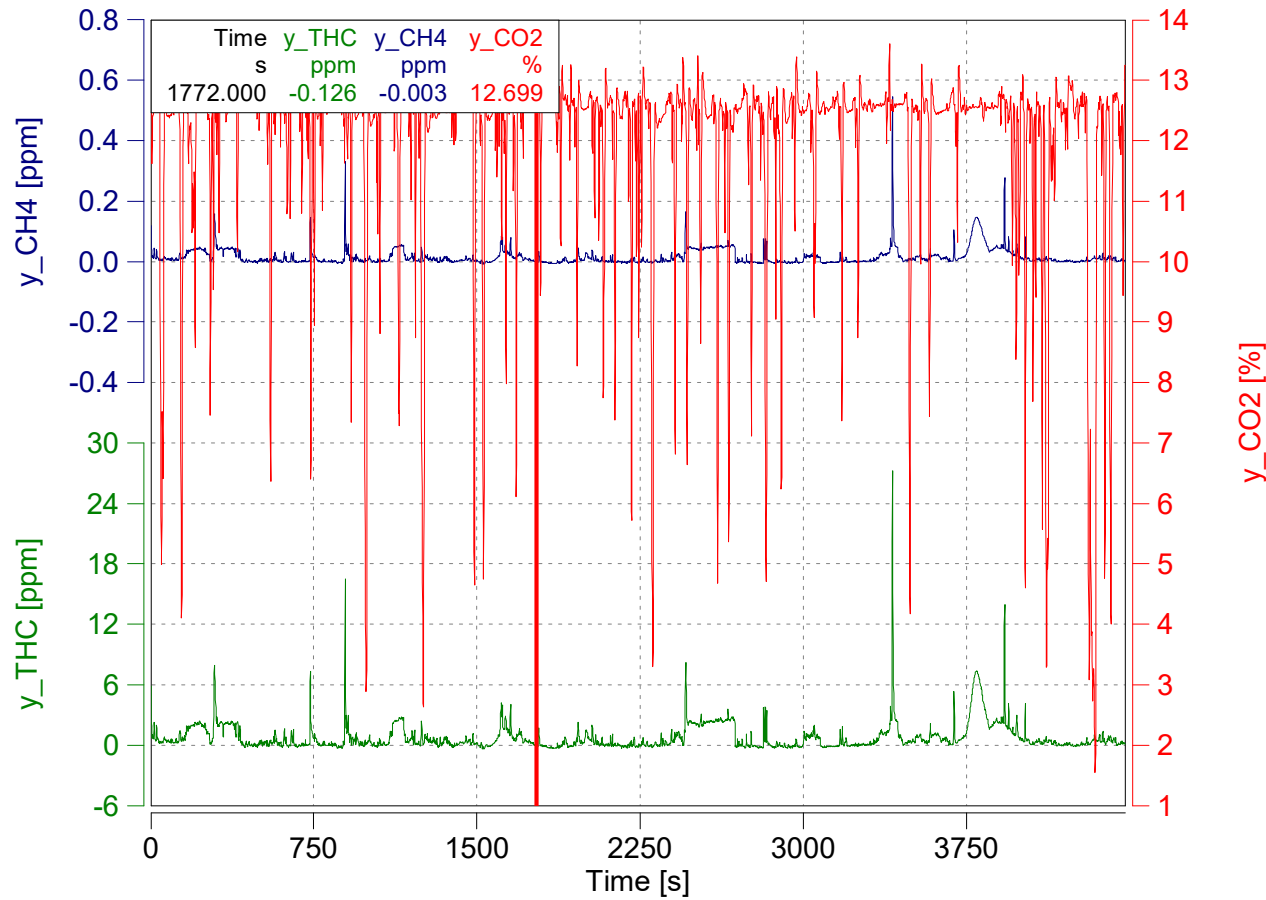
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Vehicle: A6 / 3.0 L

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: City

Page: Ambient Conditions

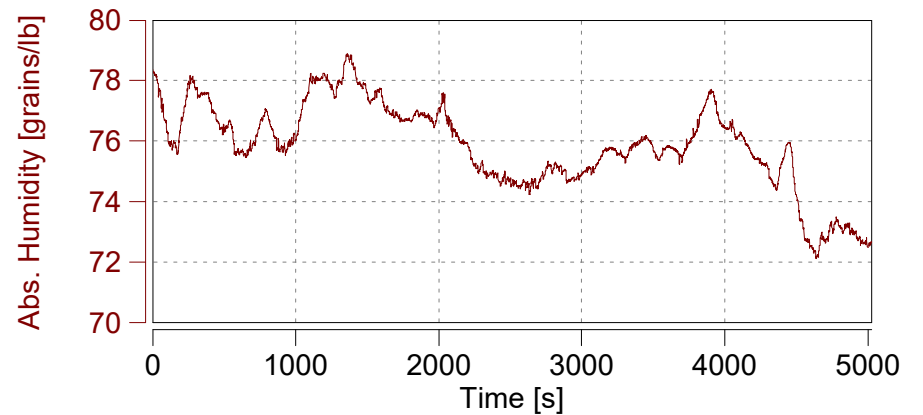
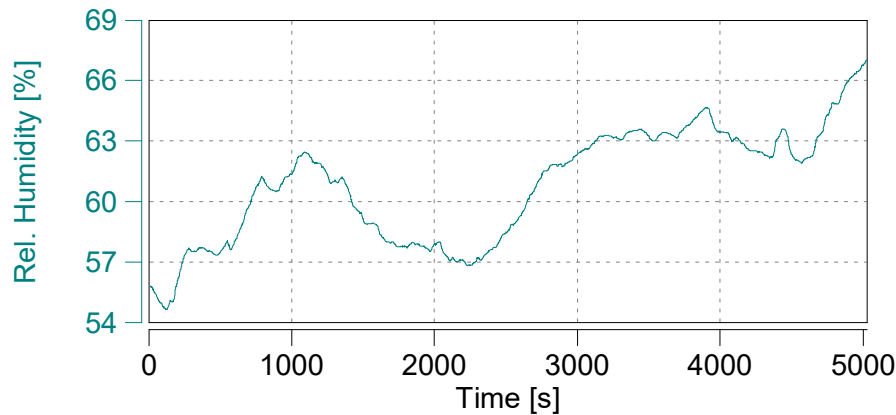
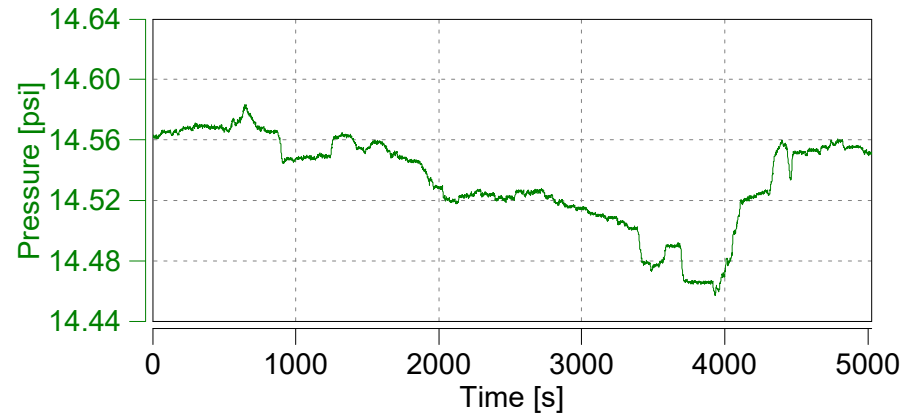
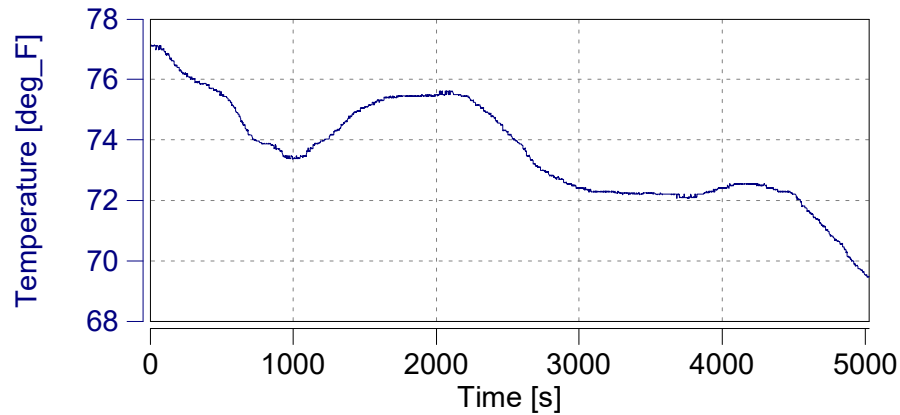
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0

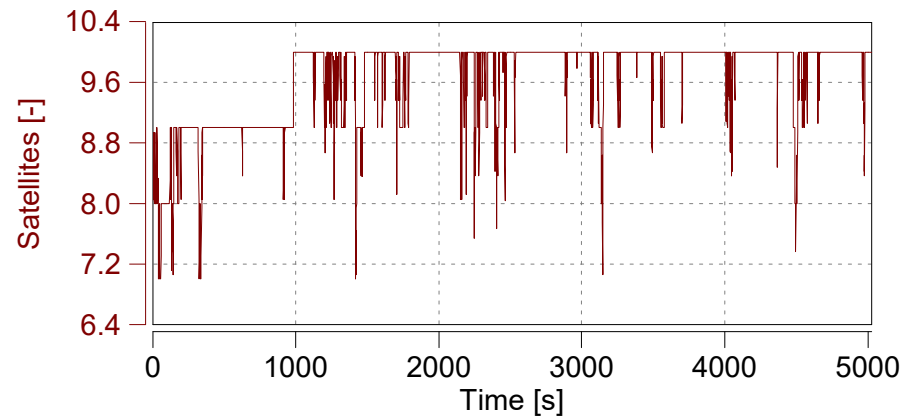
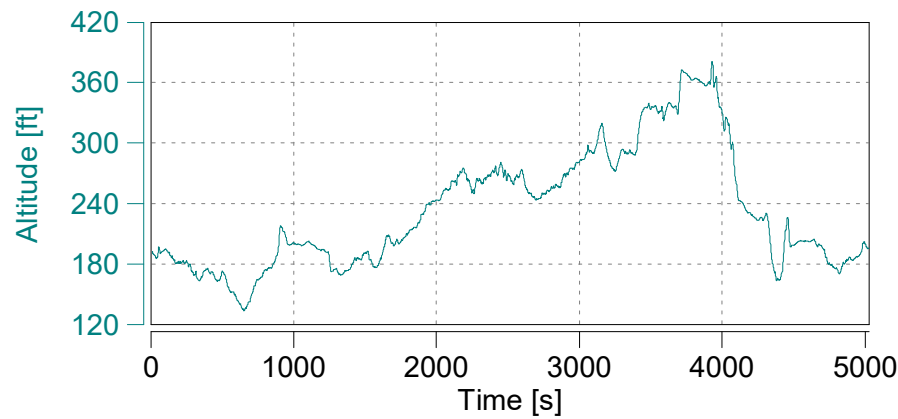
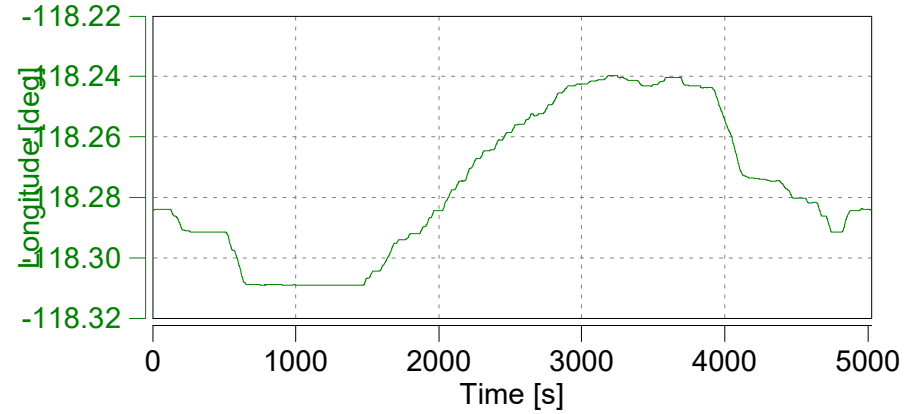
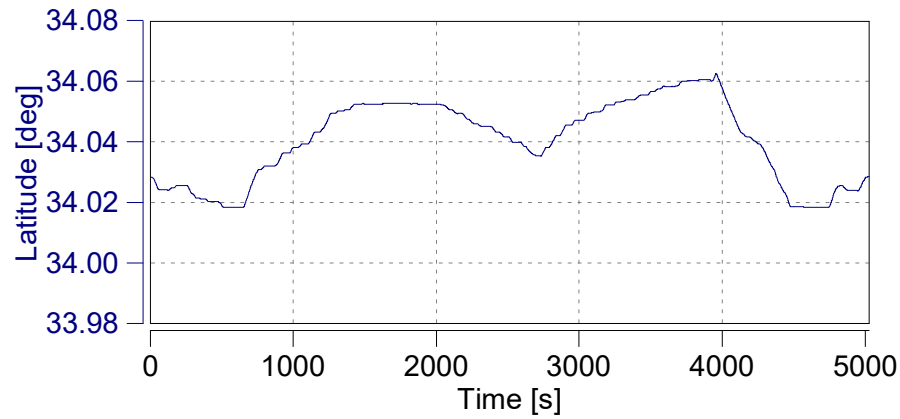


Concerto M.O.V.E., 2018



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 (1)

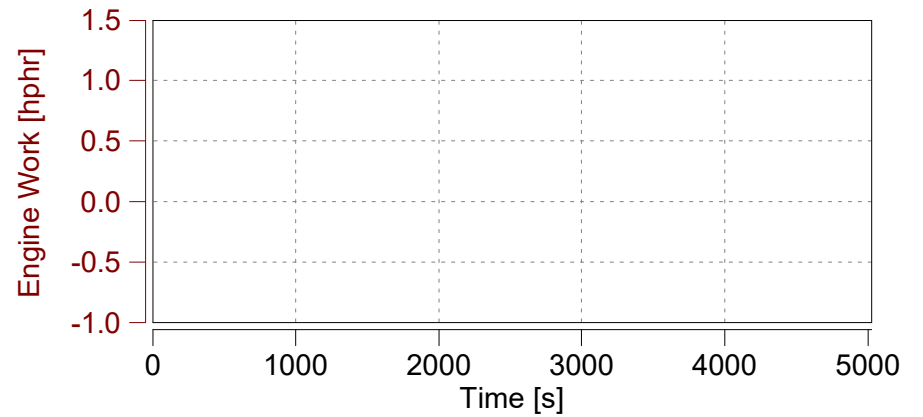
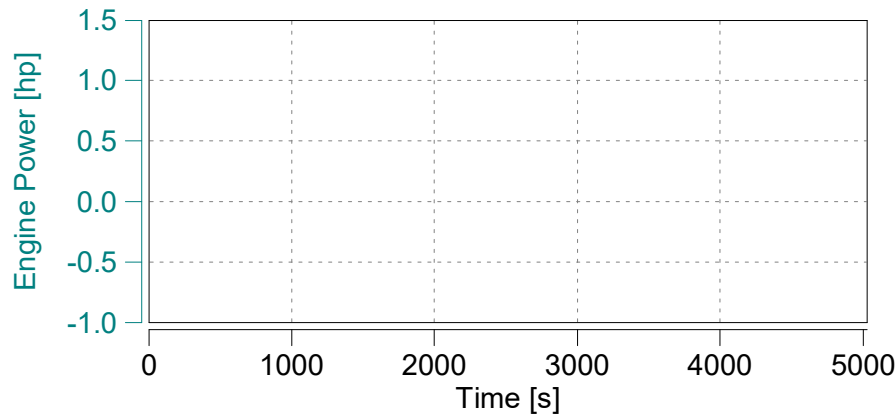
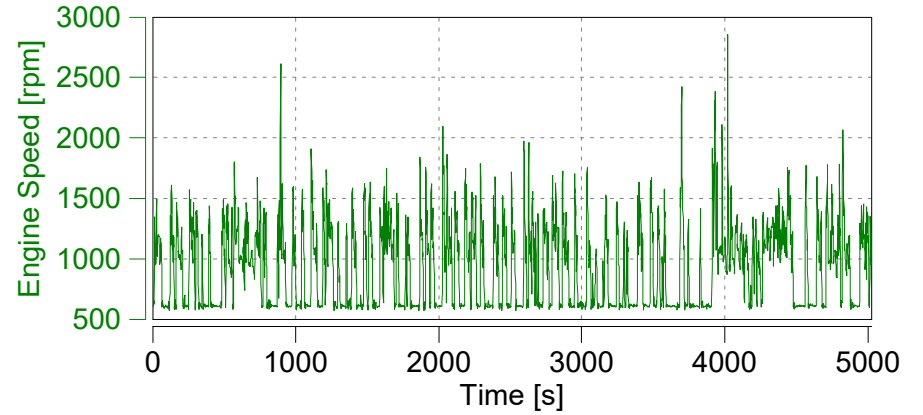
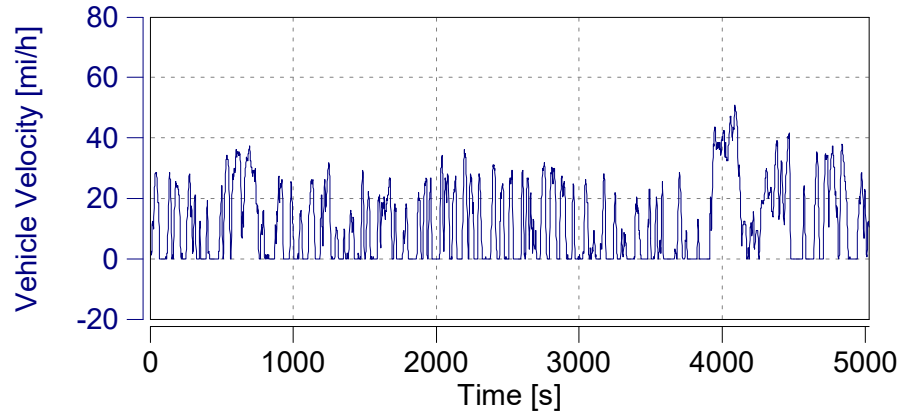
'City'

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

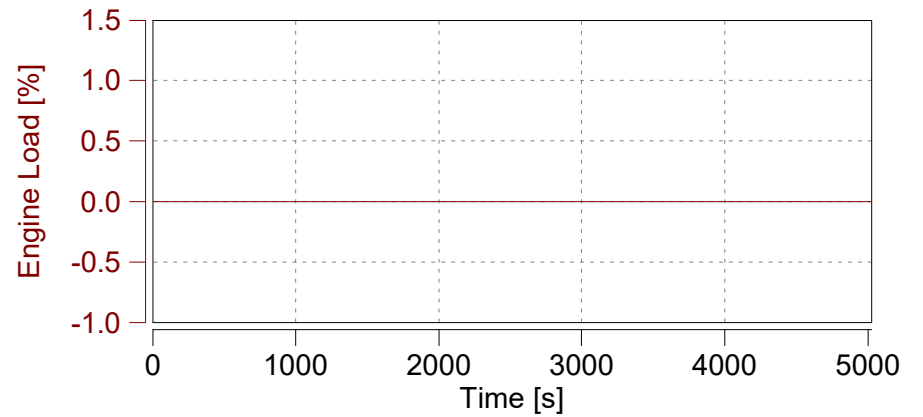
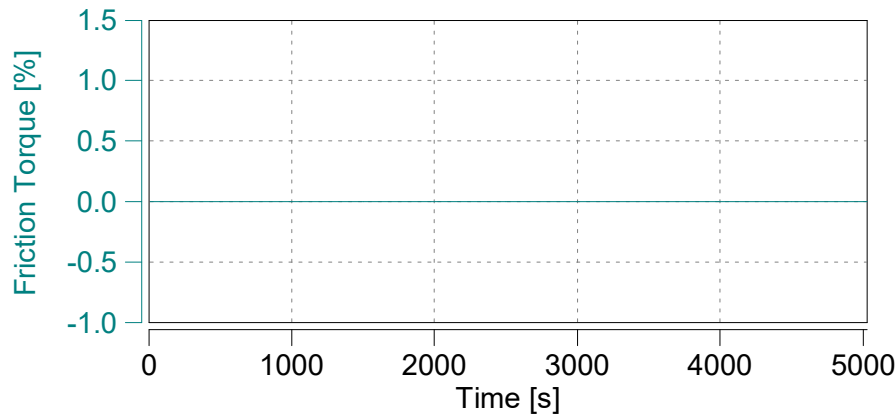
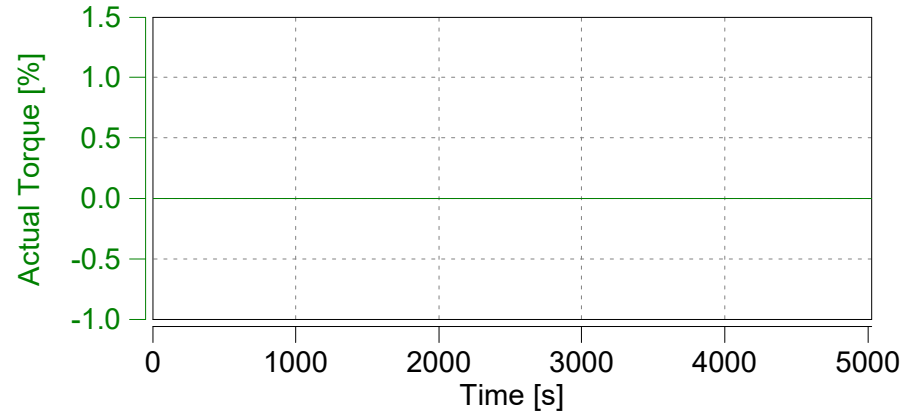
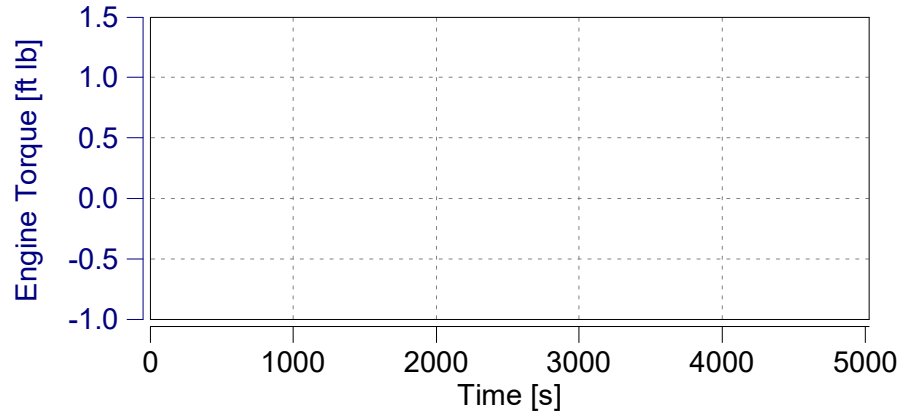
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

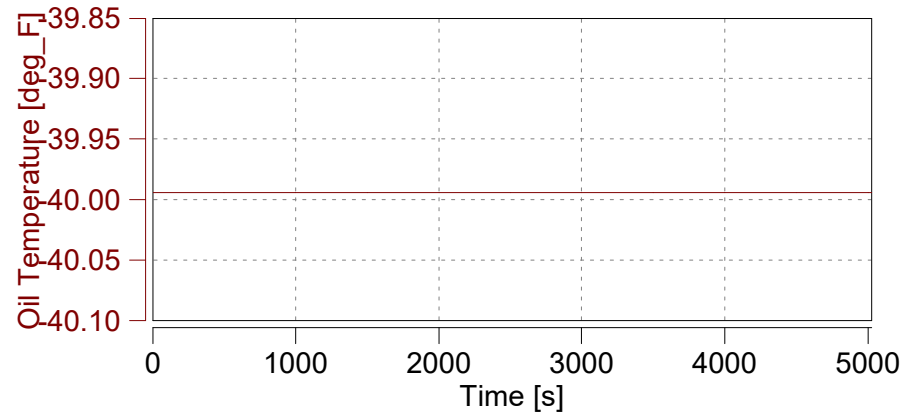
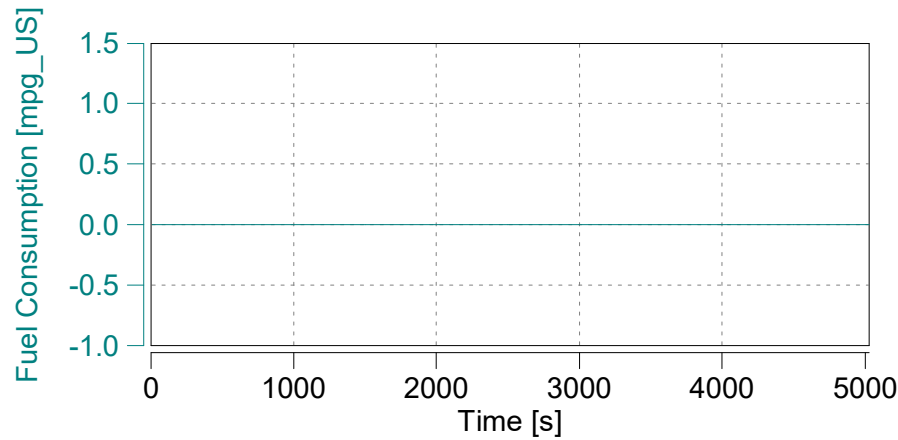
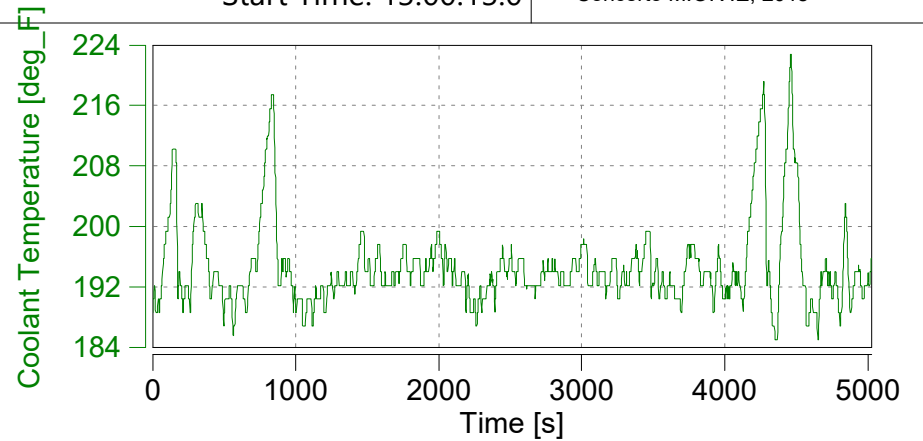
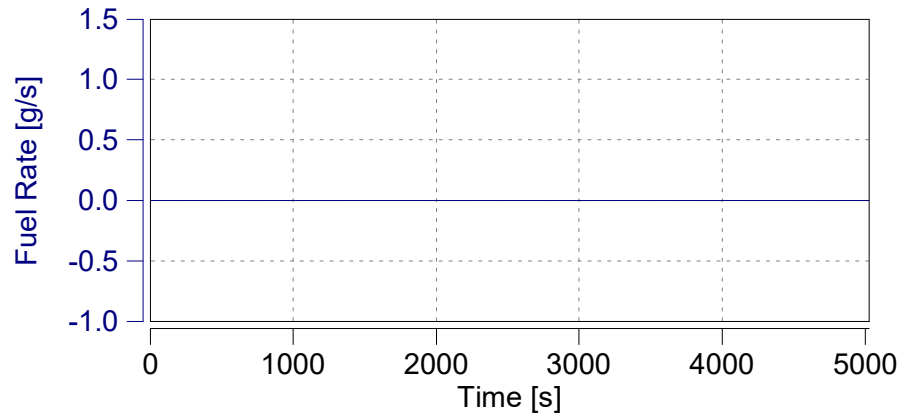
'City'

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)

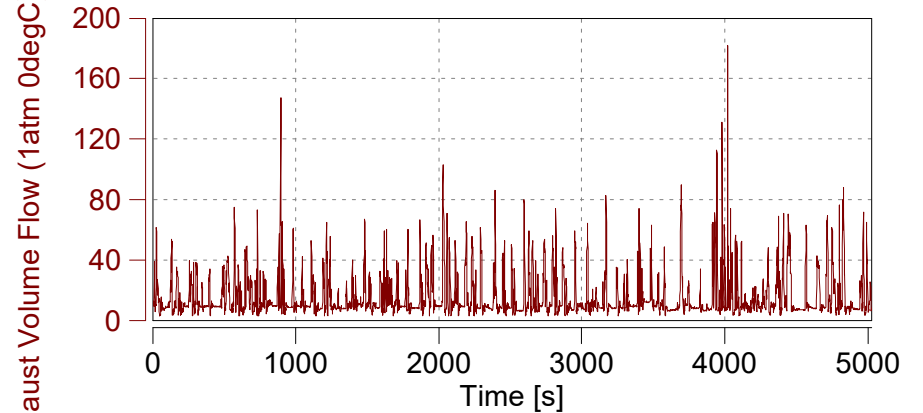
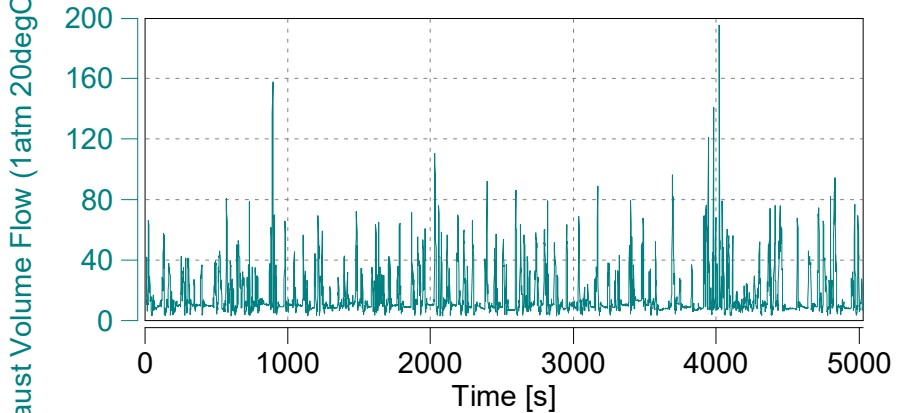
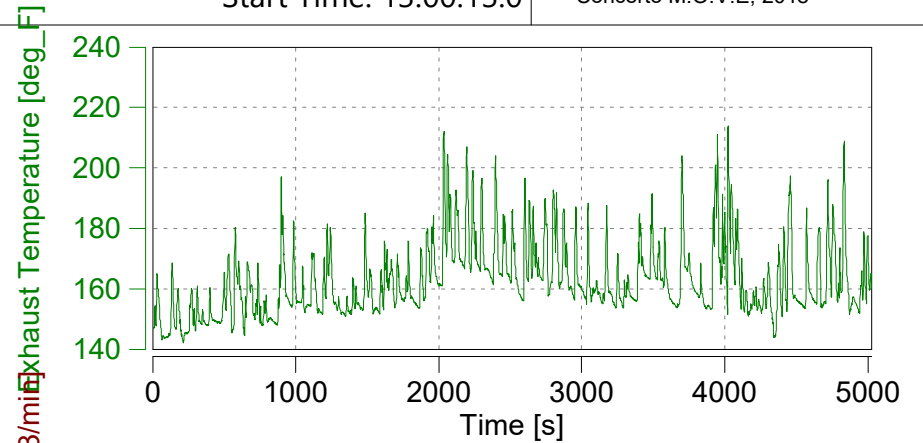
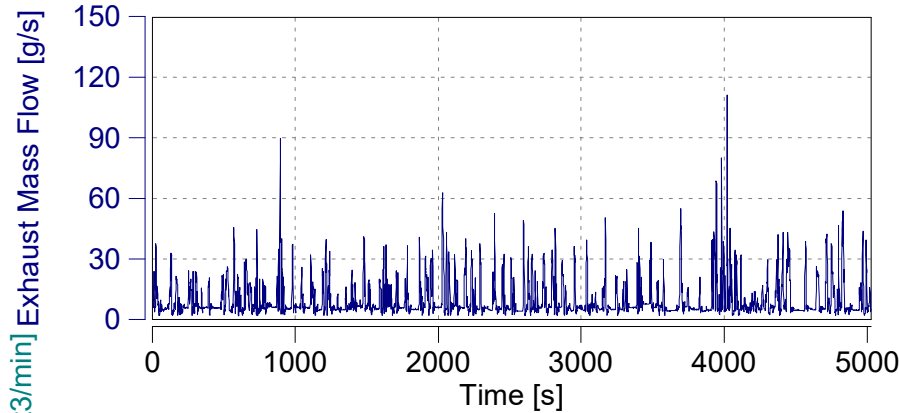
'City'

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)

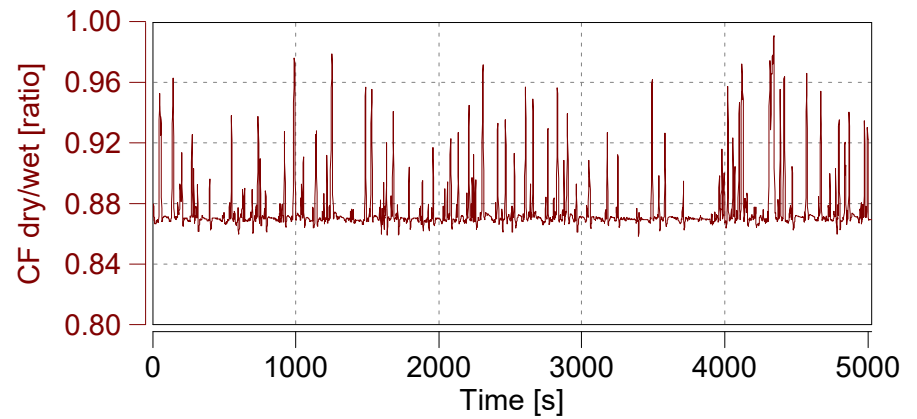
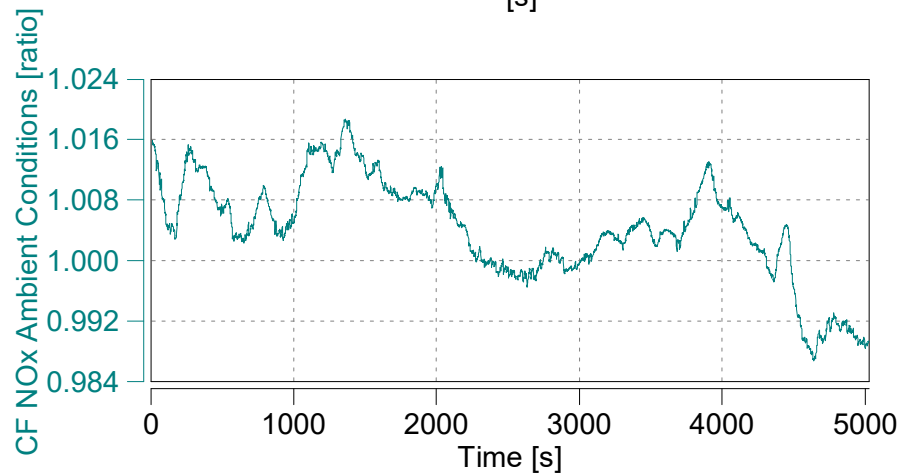
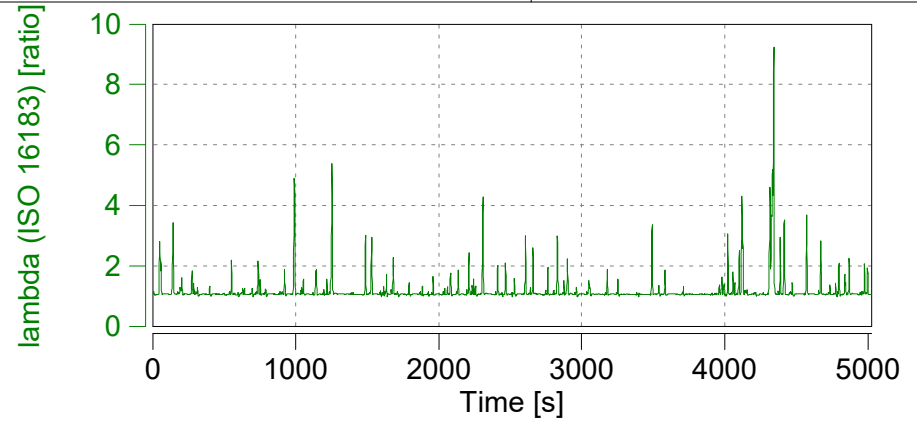
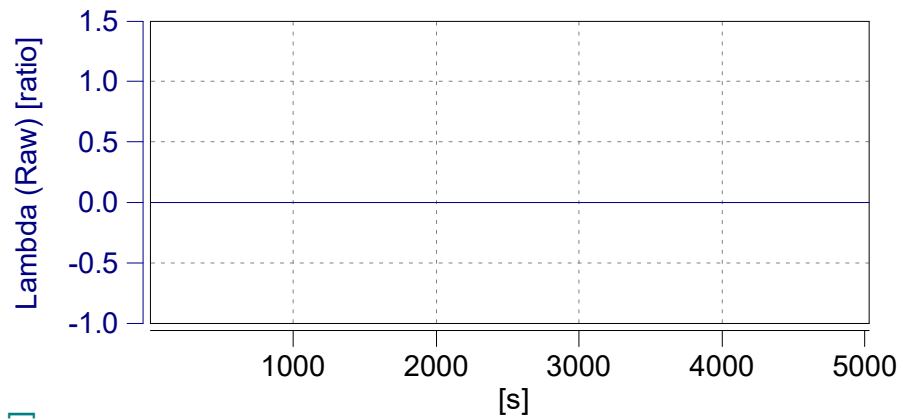
'City'

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)

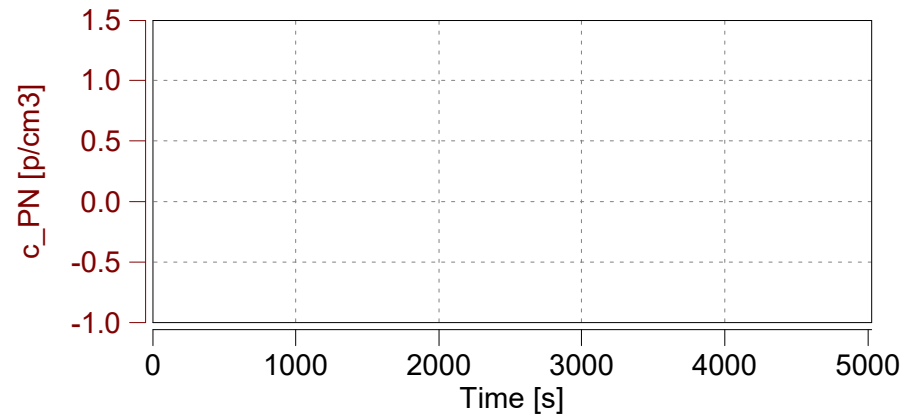
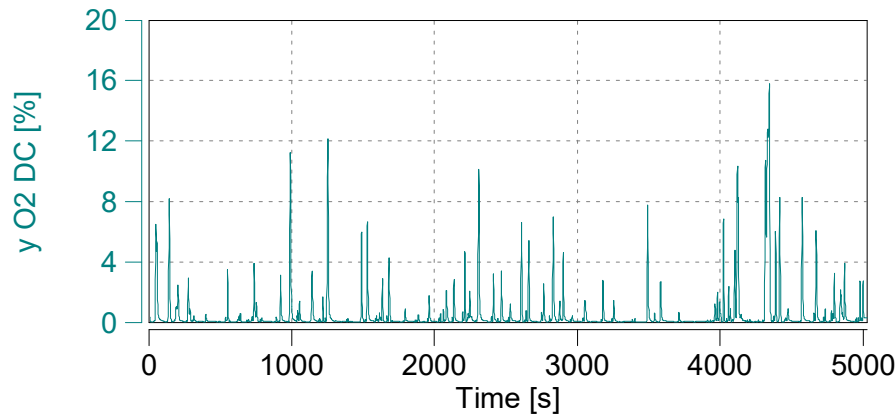
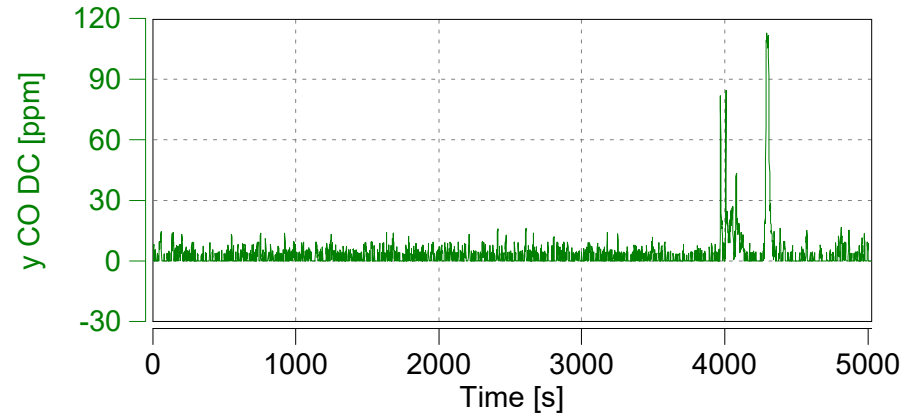
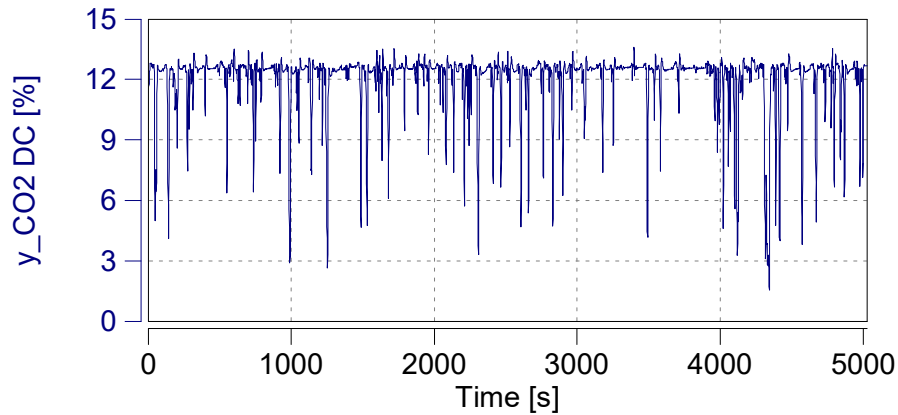
'City'

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)

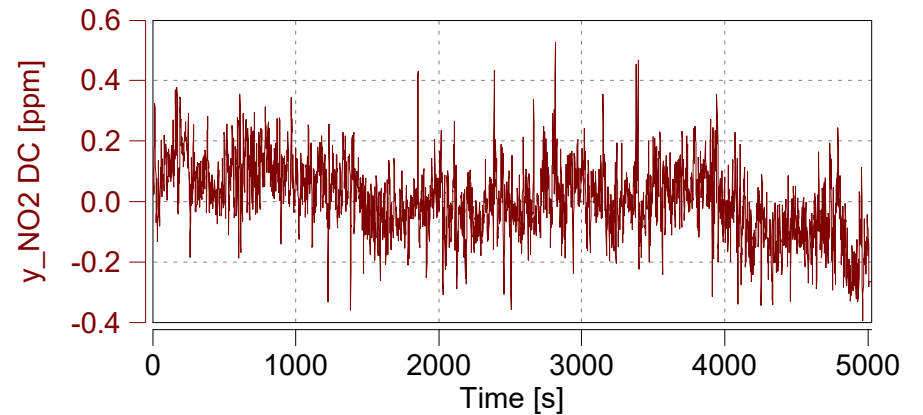
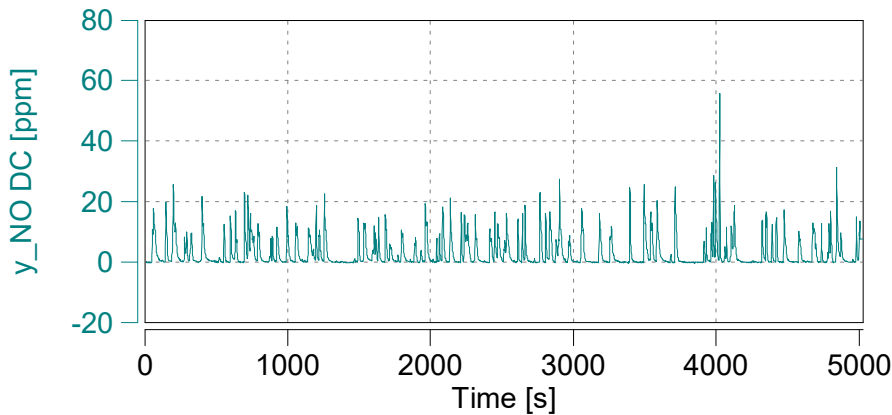
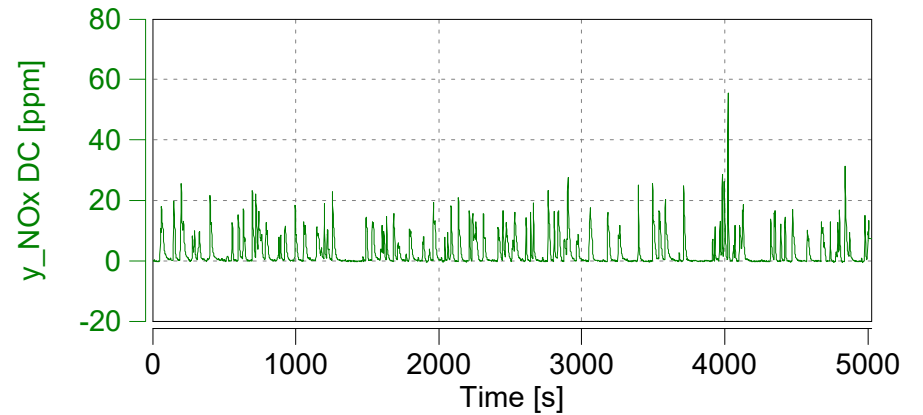
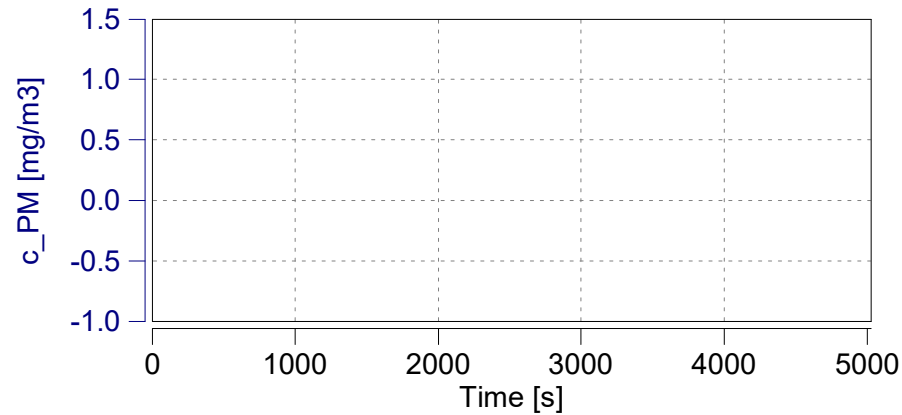
'City'

Start Date: 08/08/2019

Start Time: 13:00:13.0

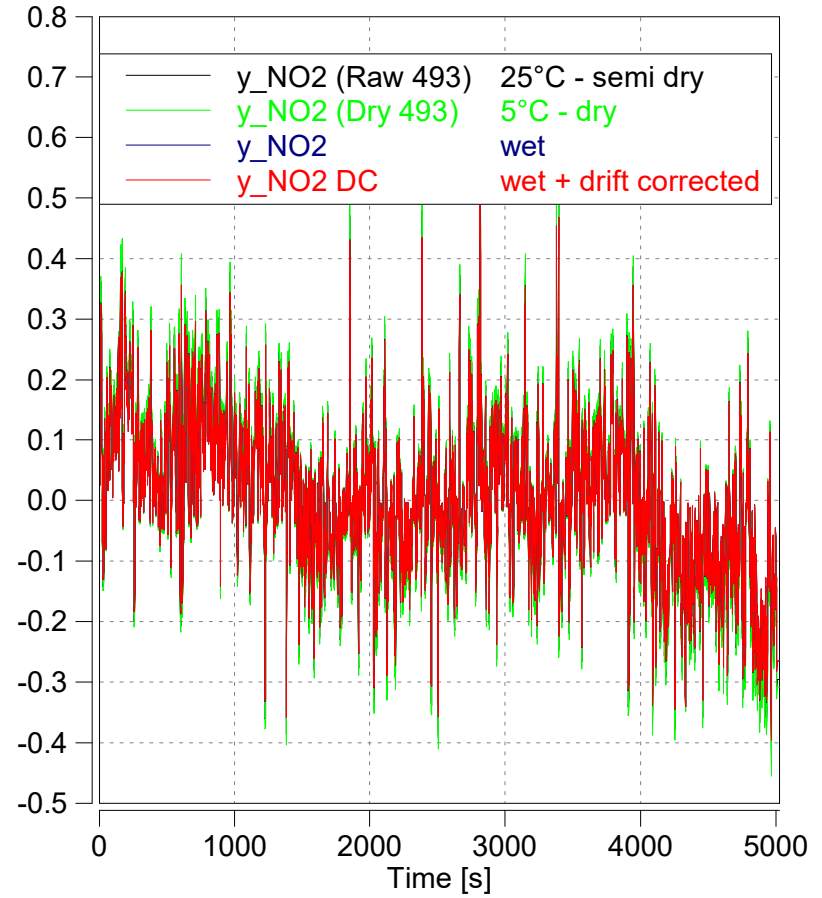
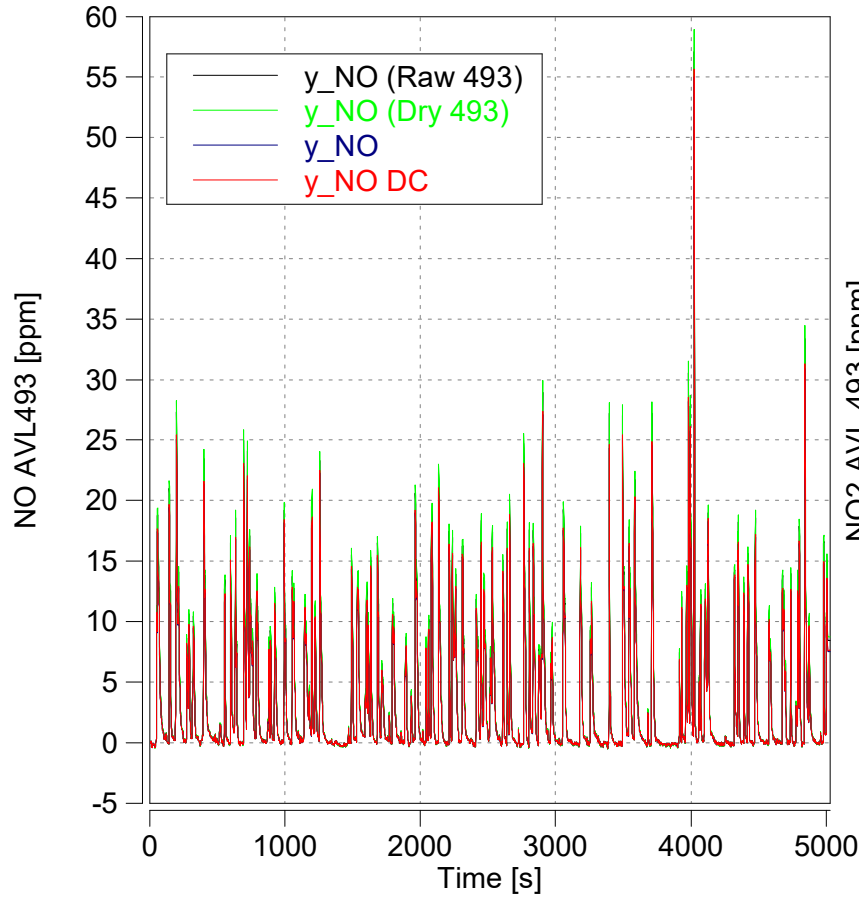


Concerto M.O.V.E., 2018



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

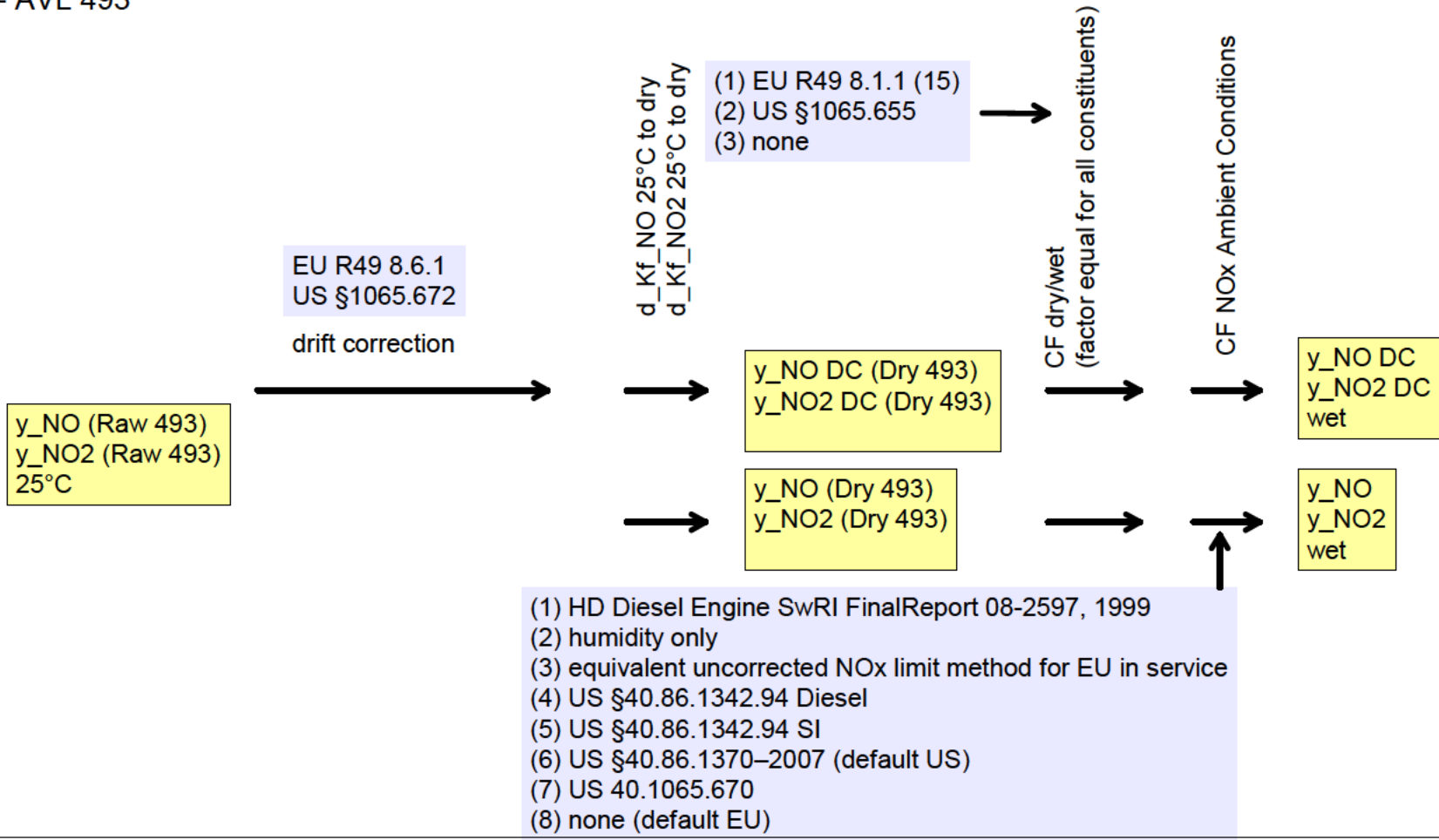


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



- (1) HD Diesel Engine SwRI FinalReport 08-2597, 1999
- (2) humidity only
- (3) equivalent uncorrected NOx limit method for EU in service
- (4) US §40.86.1342.94 Diesel
- (5) US §40.86.1342.94 SI
- (6) US §40.86.1370-2007 (default US)
- (7) US 40.1065.670
- (8) none (default EU)

Case: City

Page: Corrected Emissions (5)

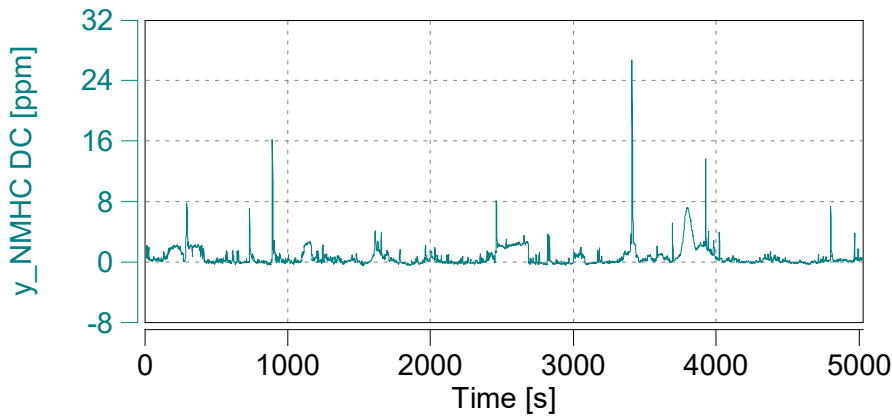
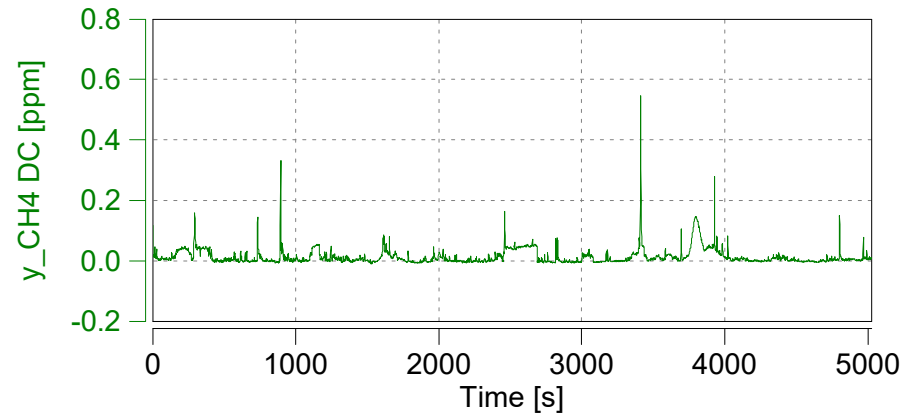
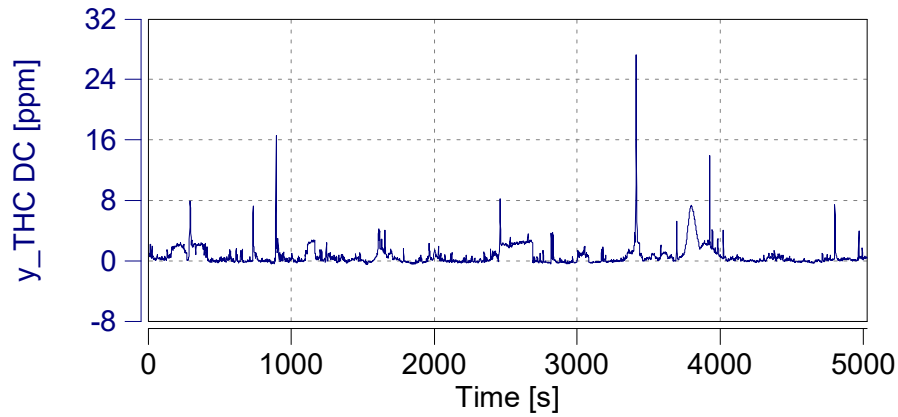
'City'

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

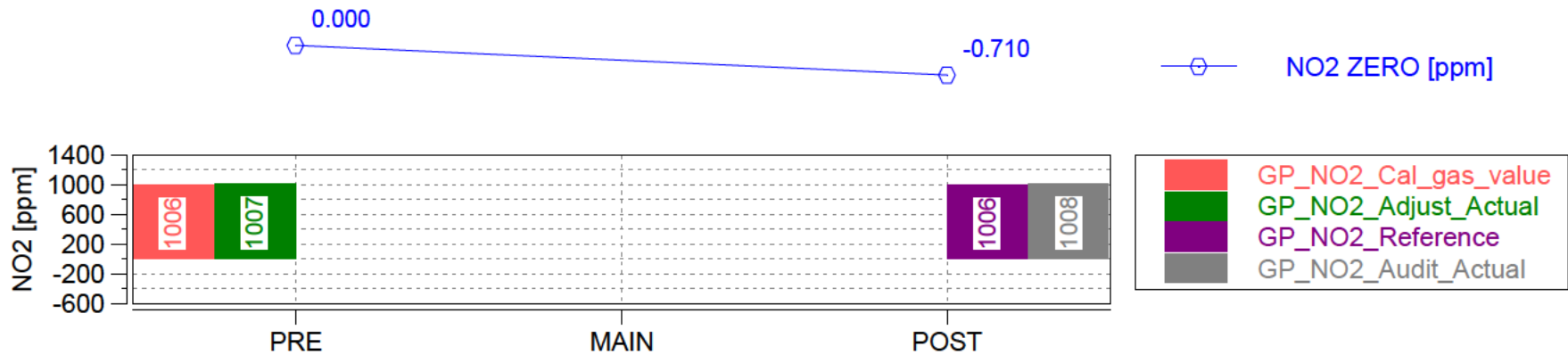
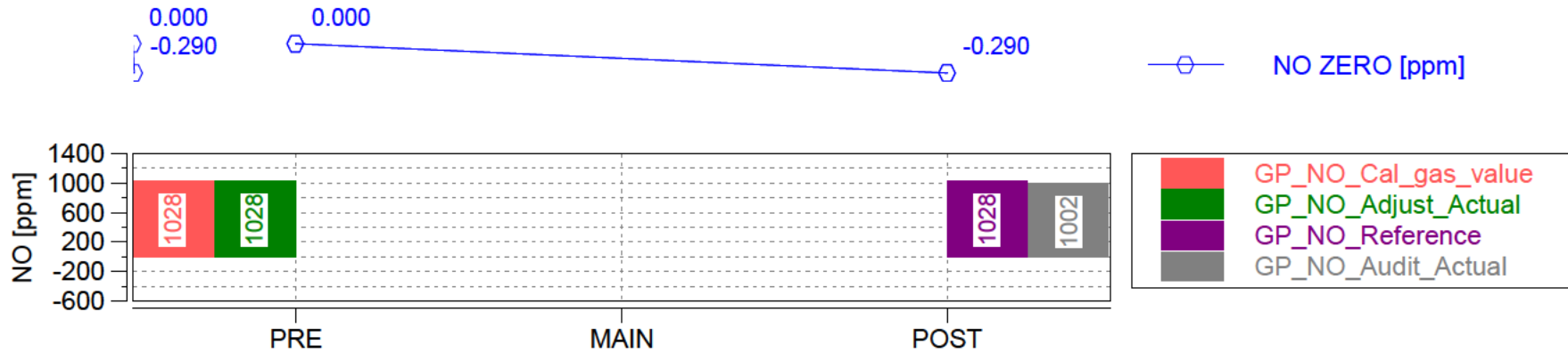
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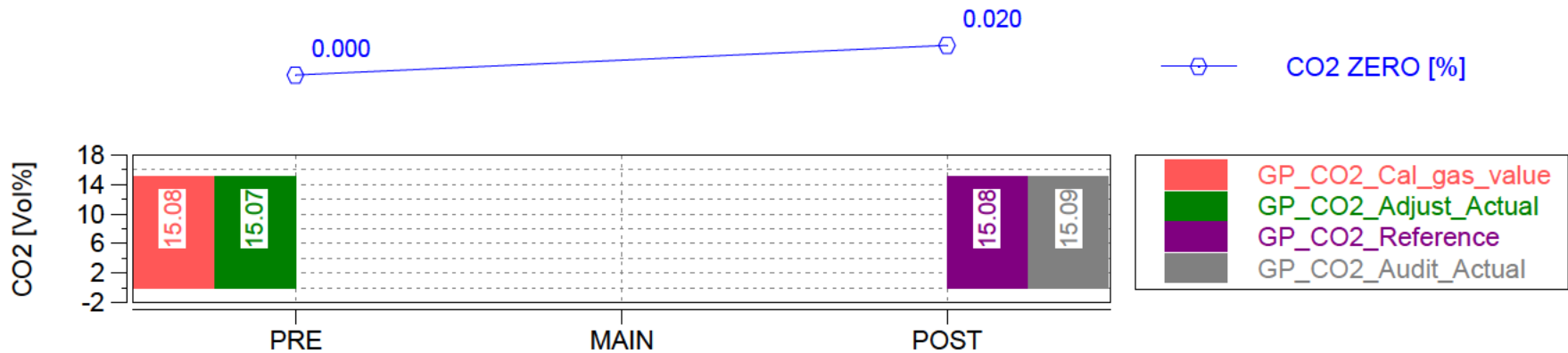
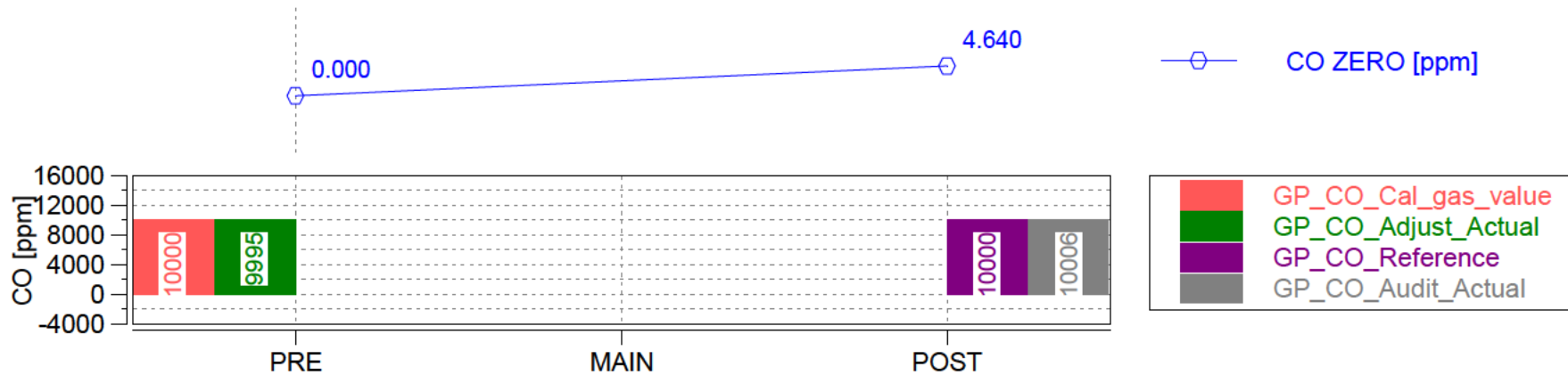
Vehicle: A6 / 3.0 L

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

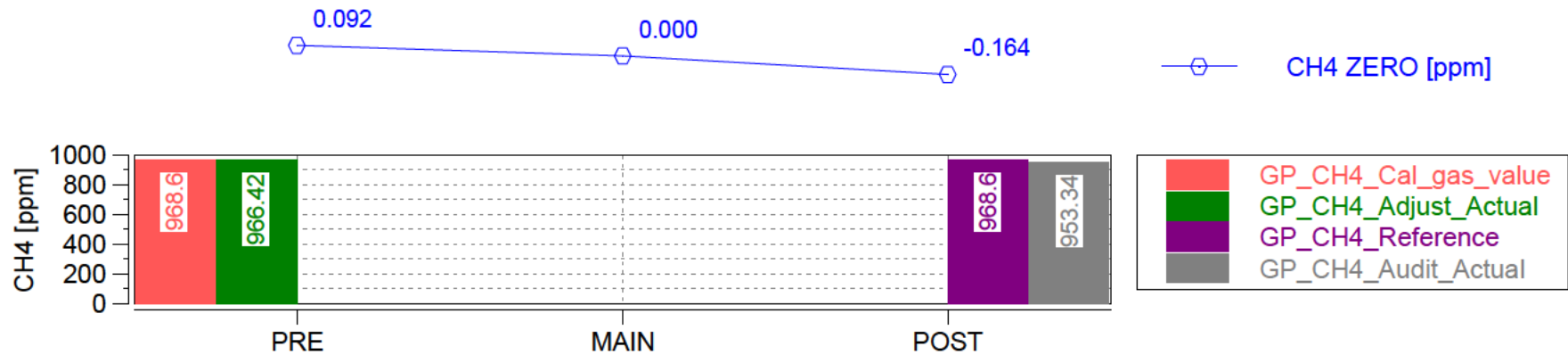
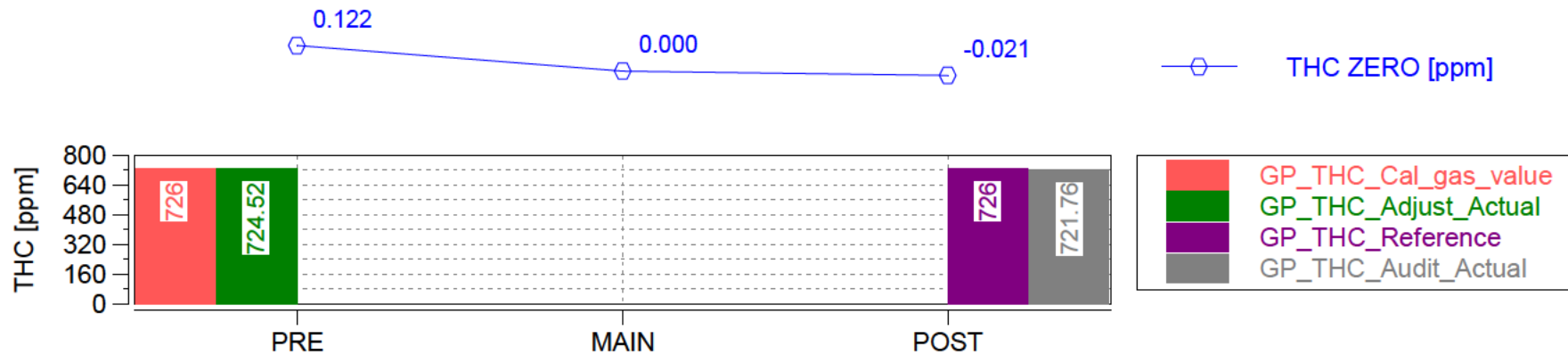
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Vehicle: A6 / 3.0 L

Engine: /

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

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



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\WorkEnvironmets\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

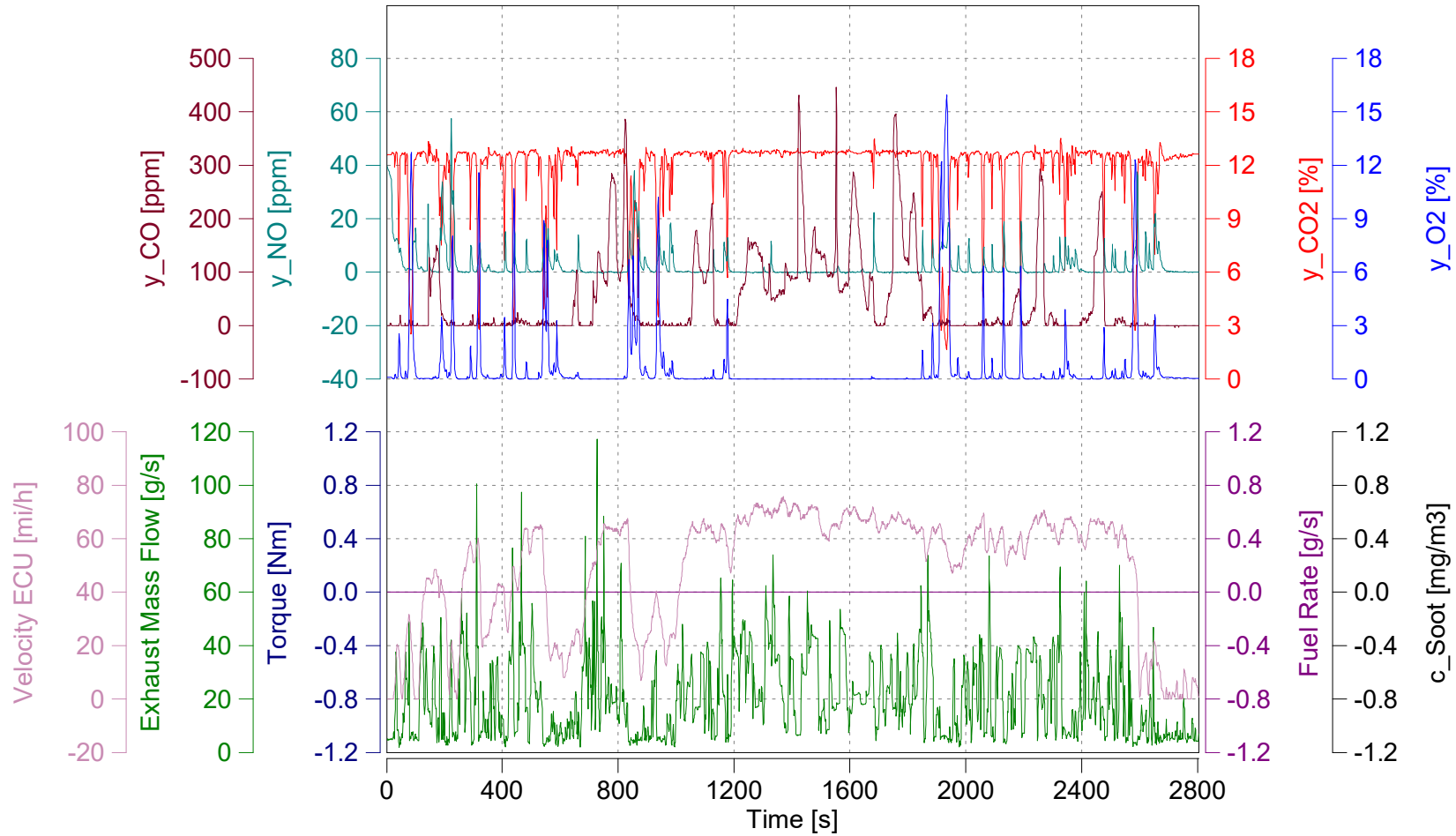
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Vehicle: A6 / 3.0 L

Engine: /

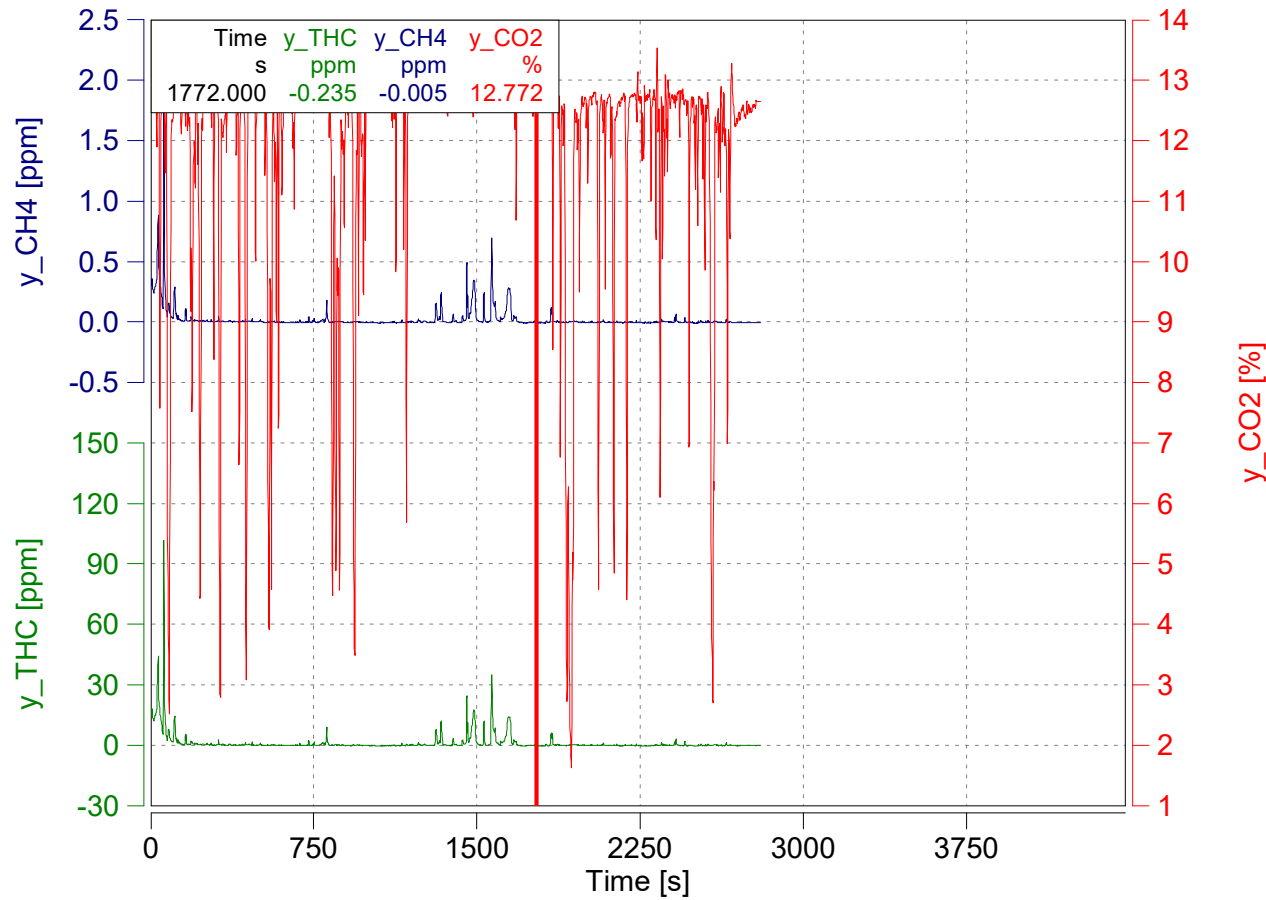
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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

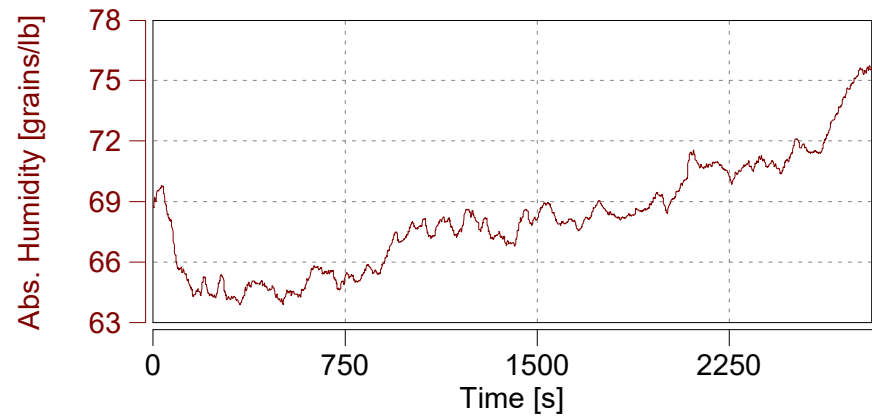
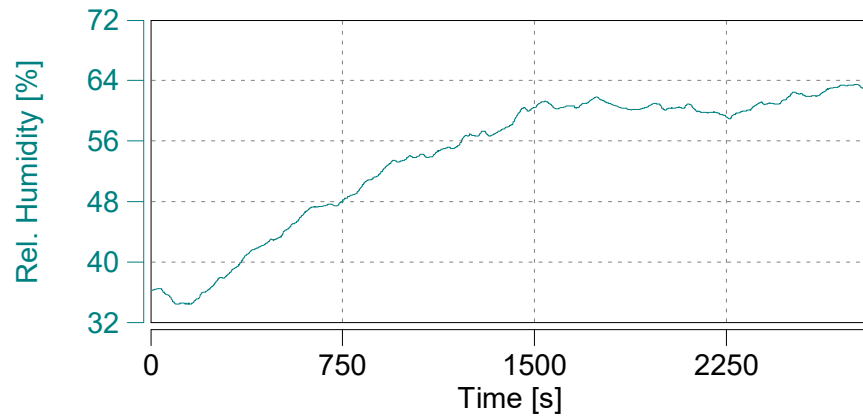
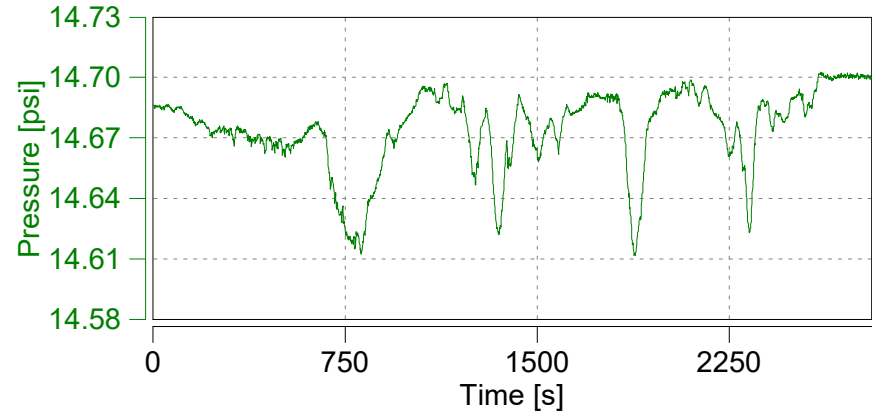
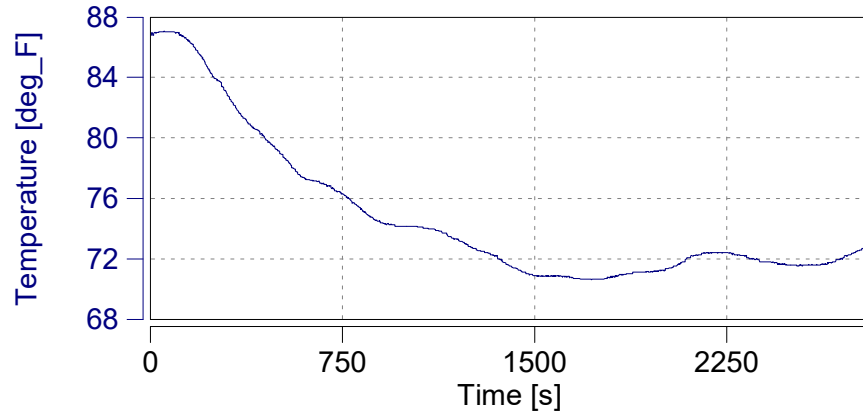


Absolute Time Shifts

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

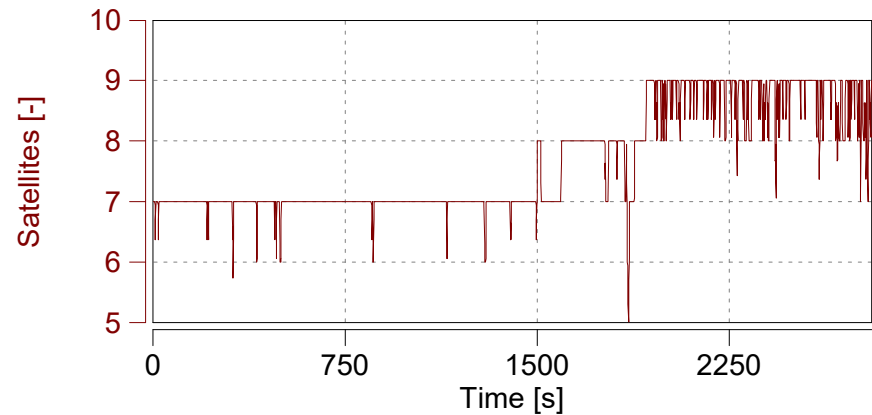
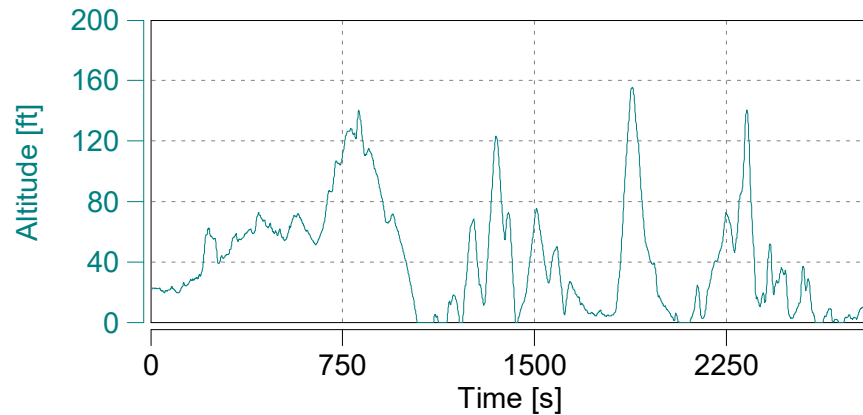
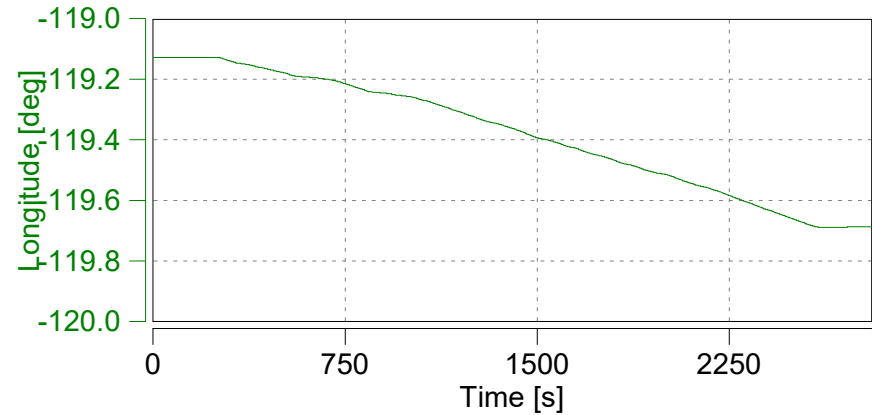
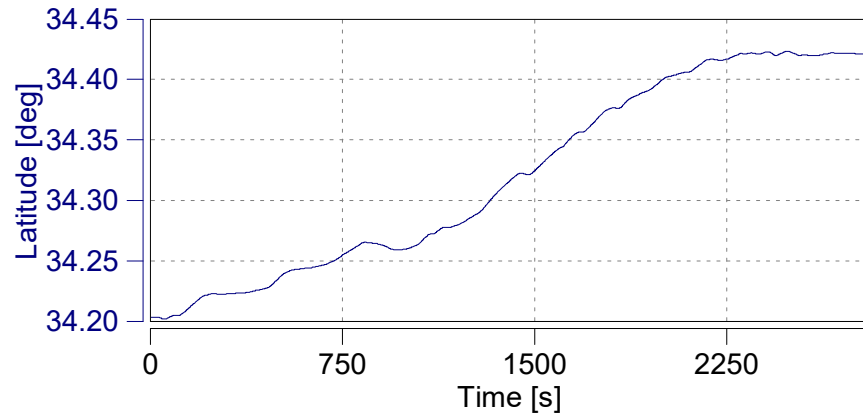
'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0

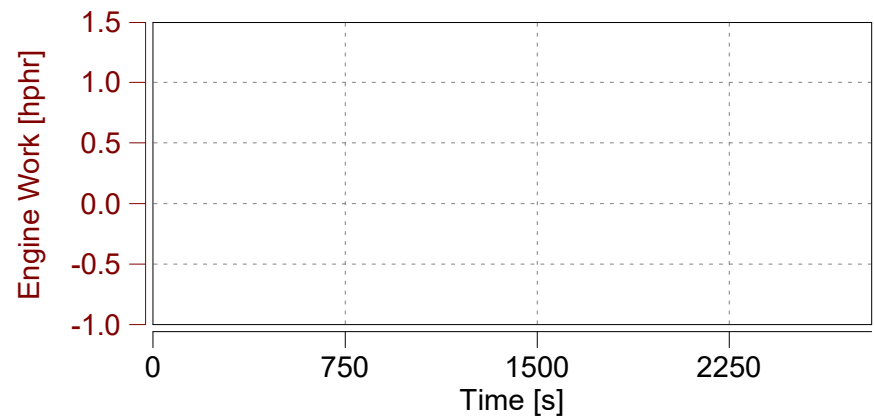
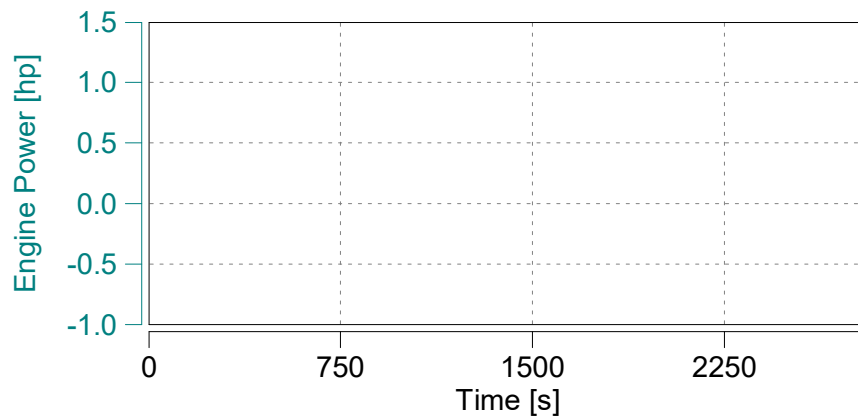
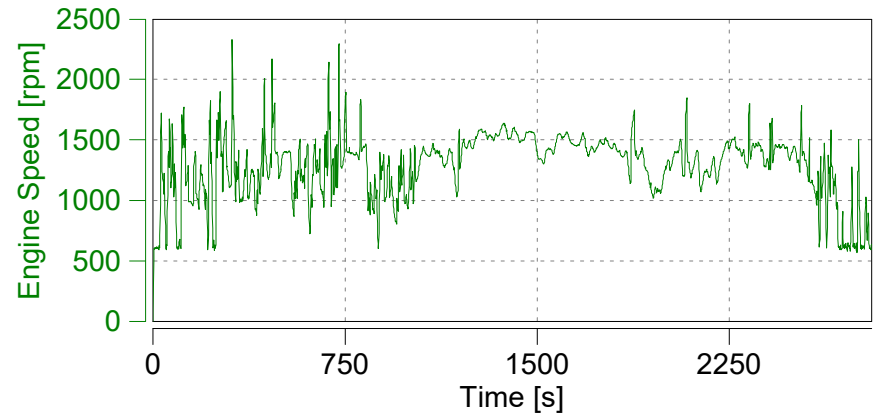
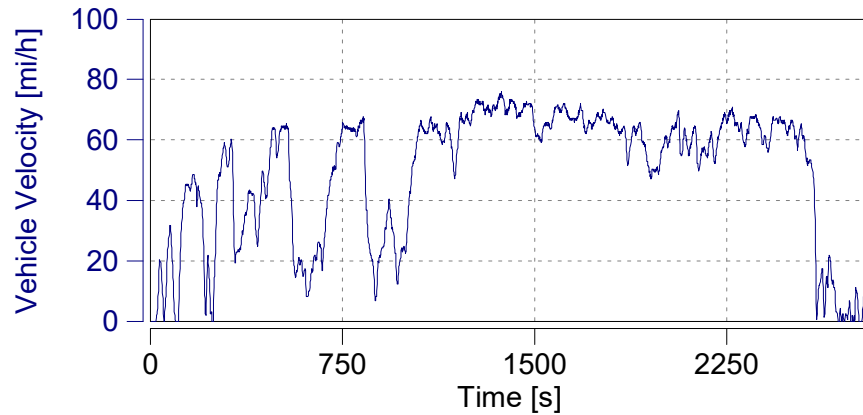


Concerto M.O.V.E., 2018



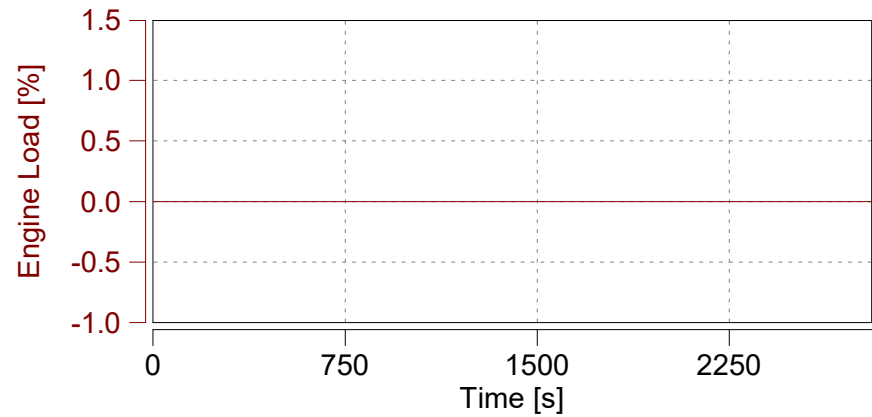
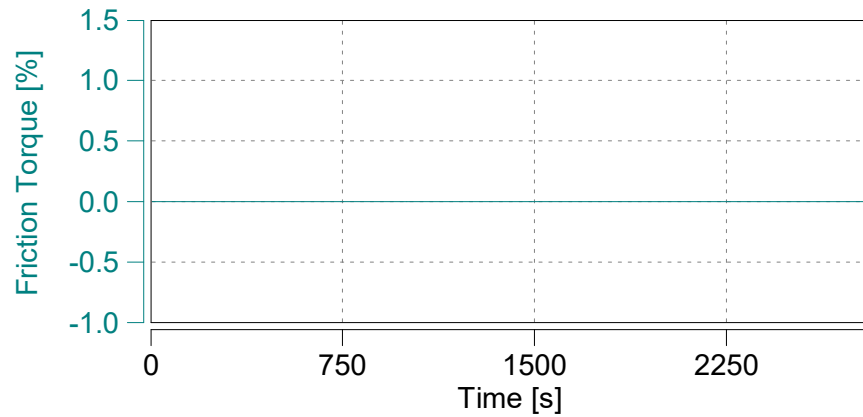
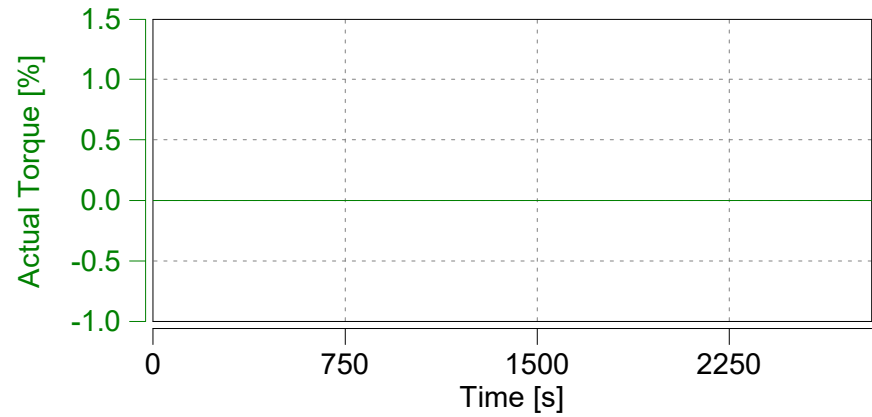
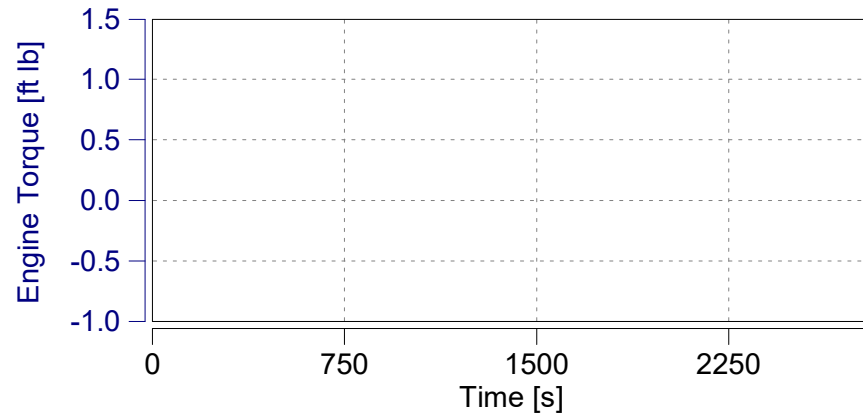
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Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



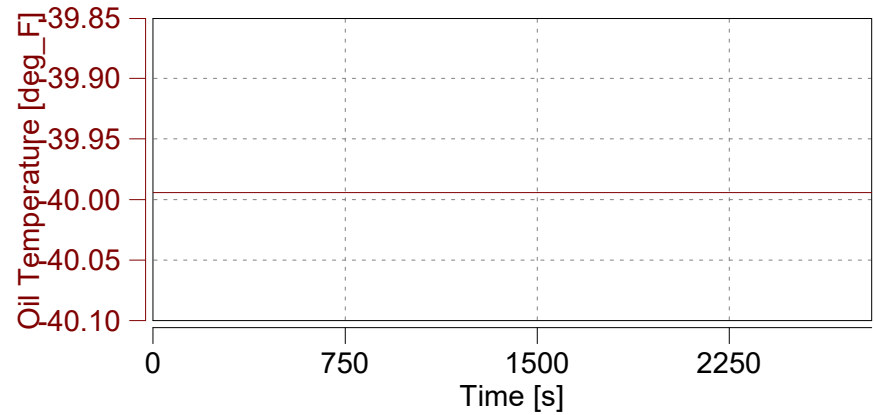
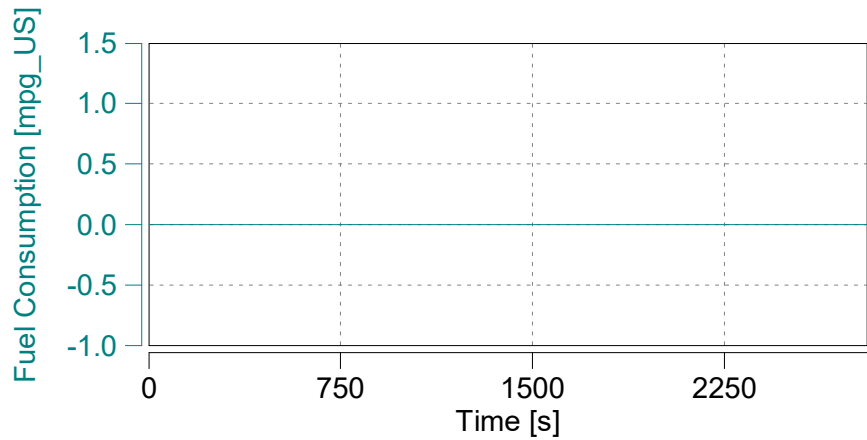
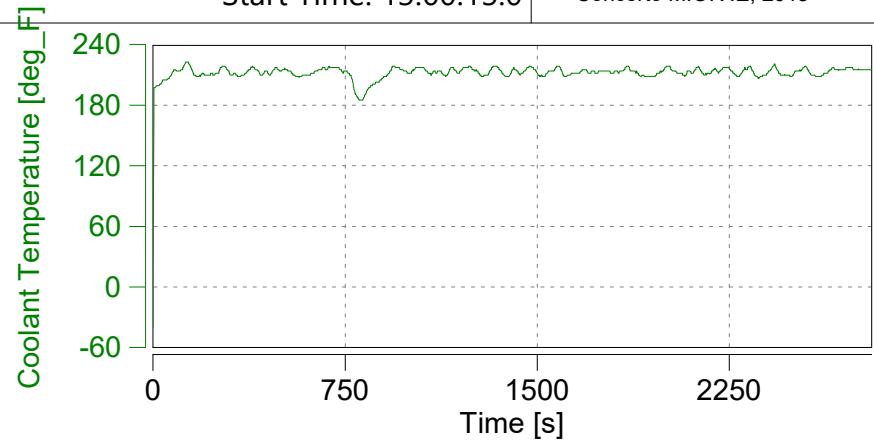
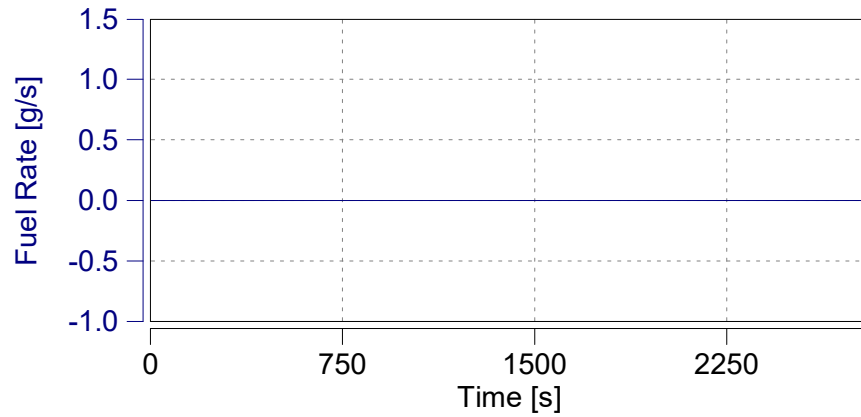
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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
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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_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)

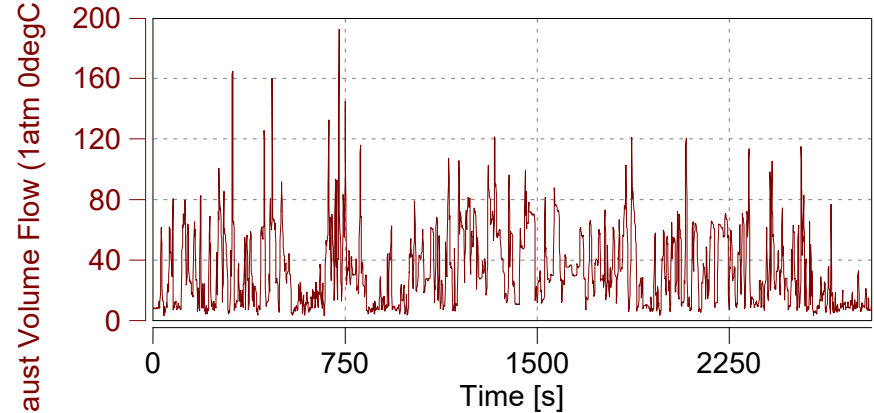
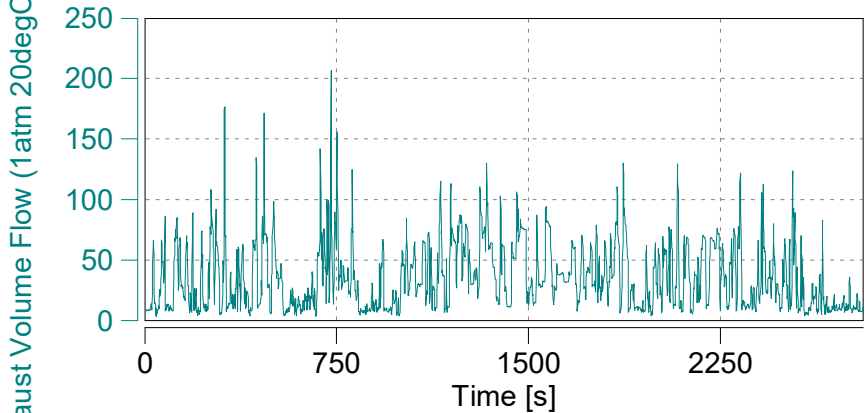
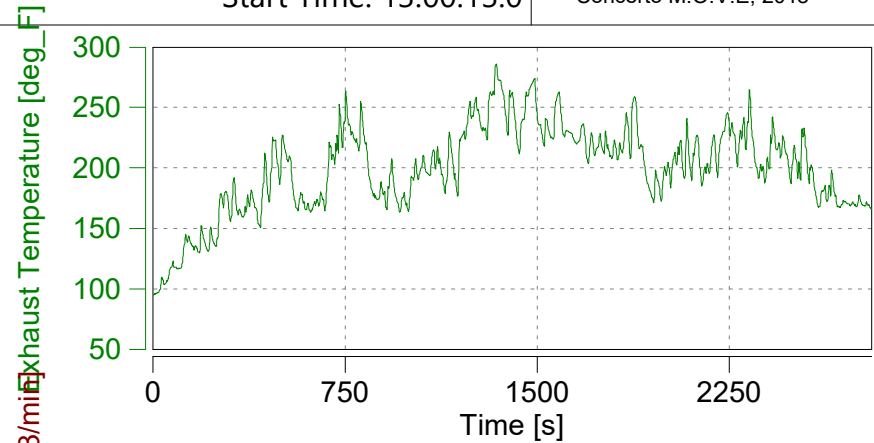
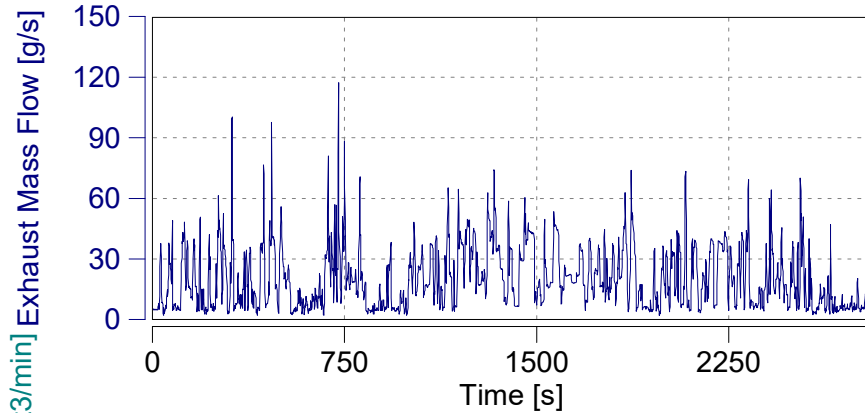
'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0

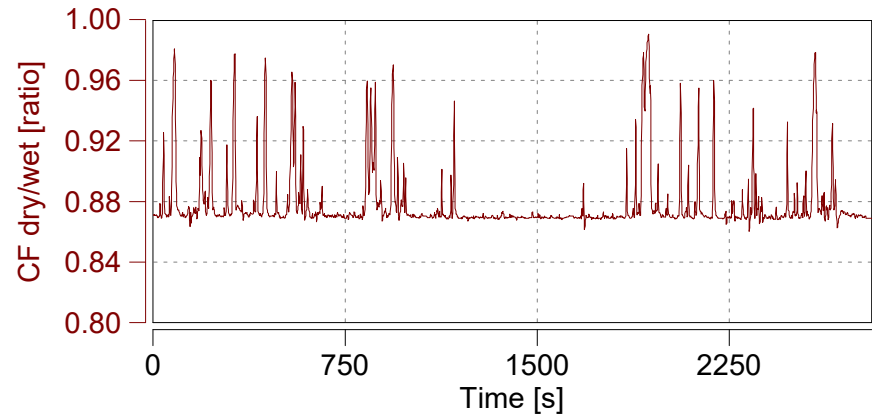
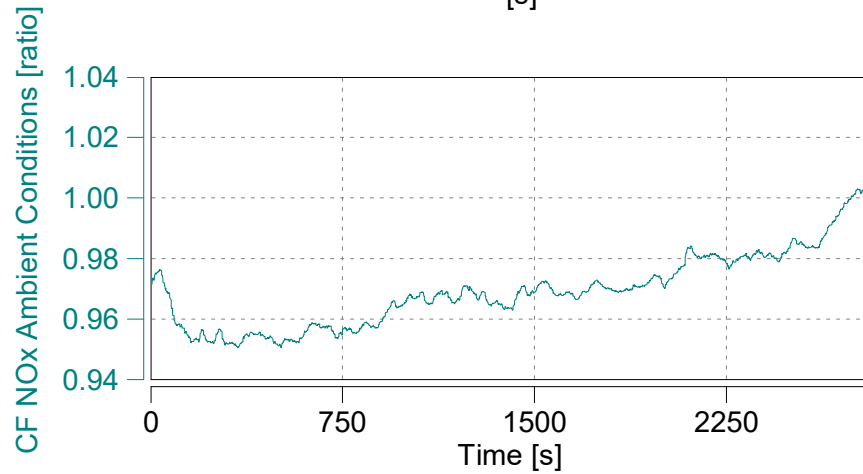
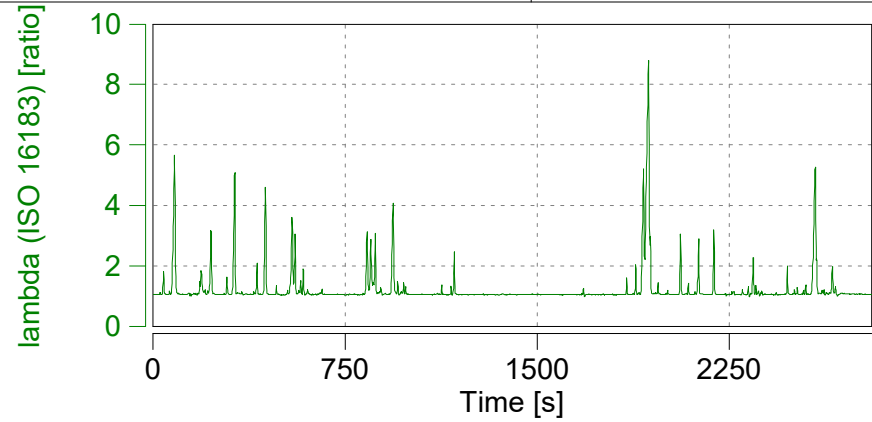
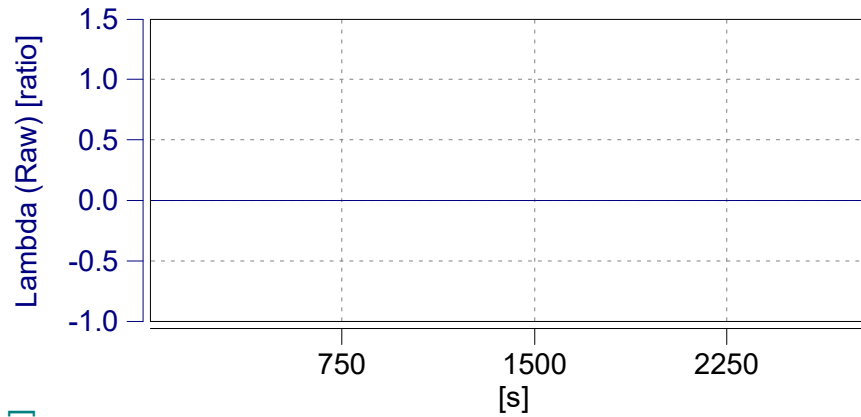


Concerto M.O.V.E., 2018



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)

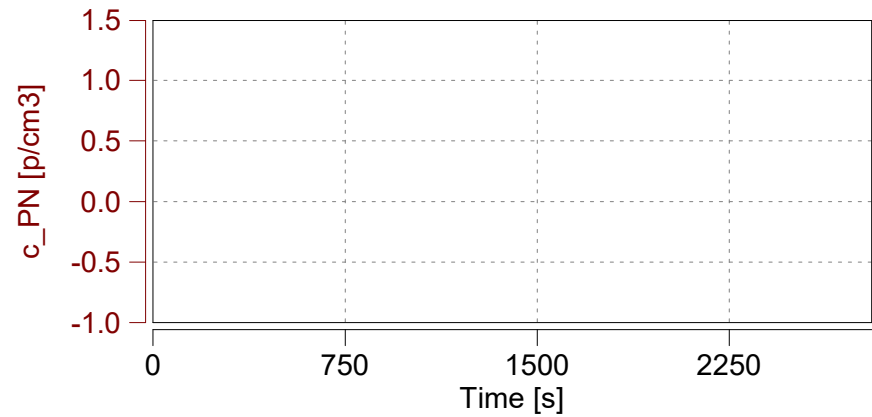
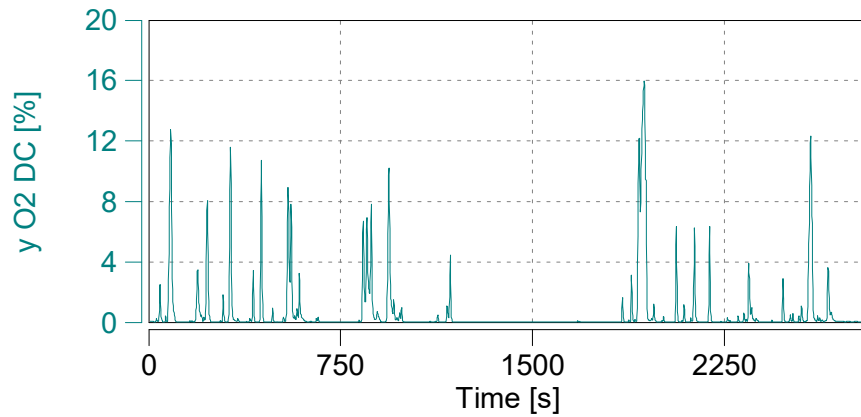
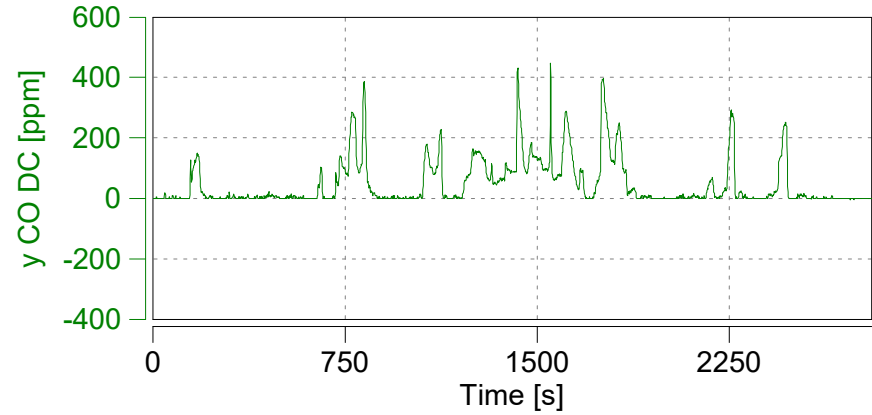
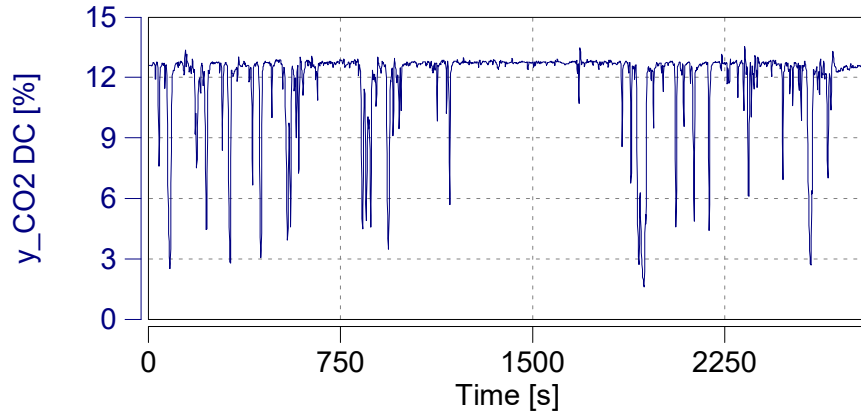
'Highway'

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)

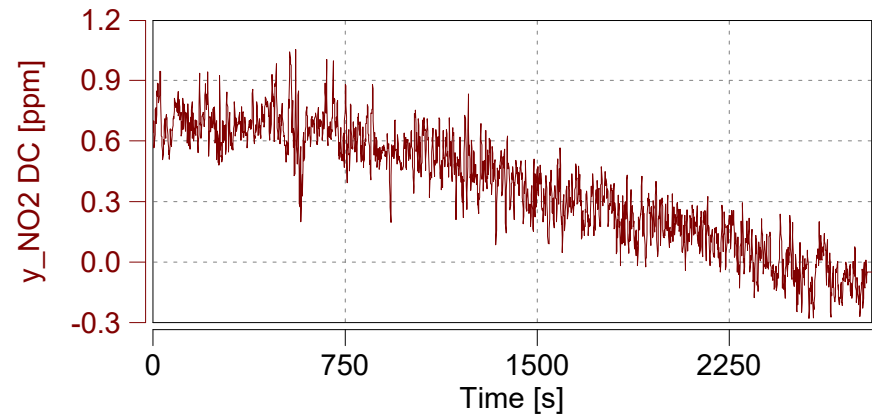
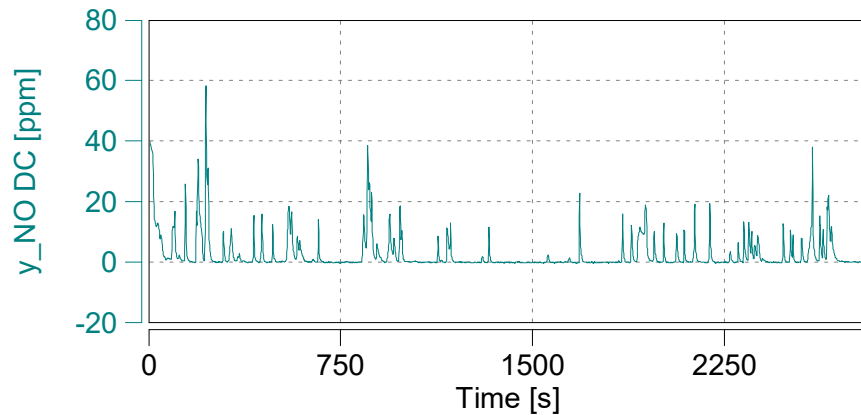
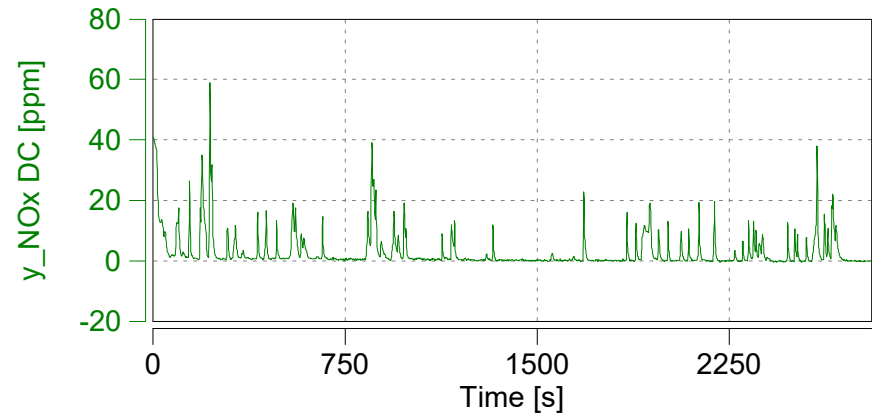
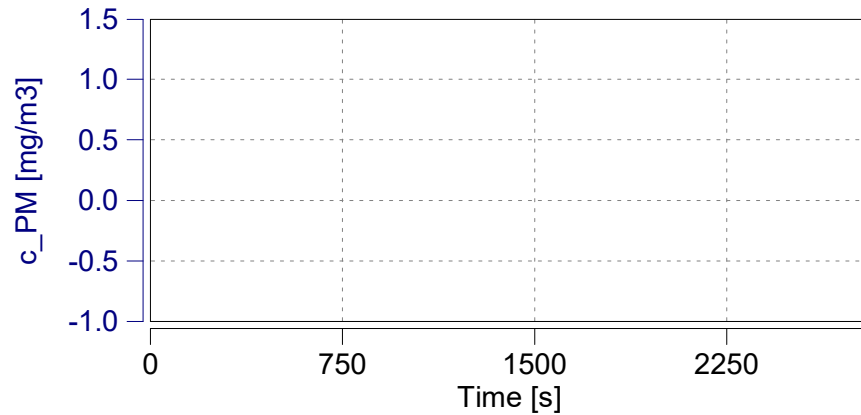
'Highway'

Start Date: 08/08/2019

Start Time: 13:00:13.0

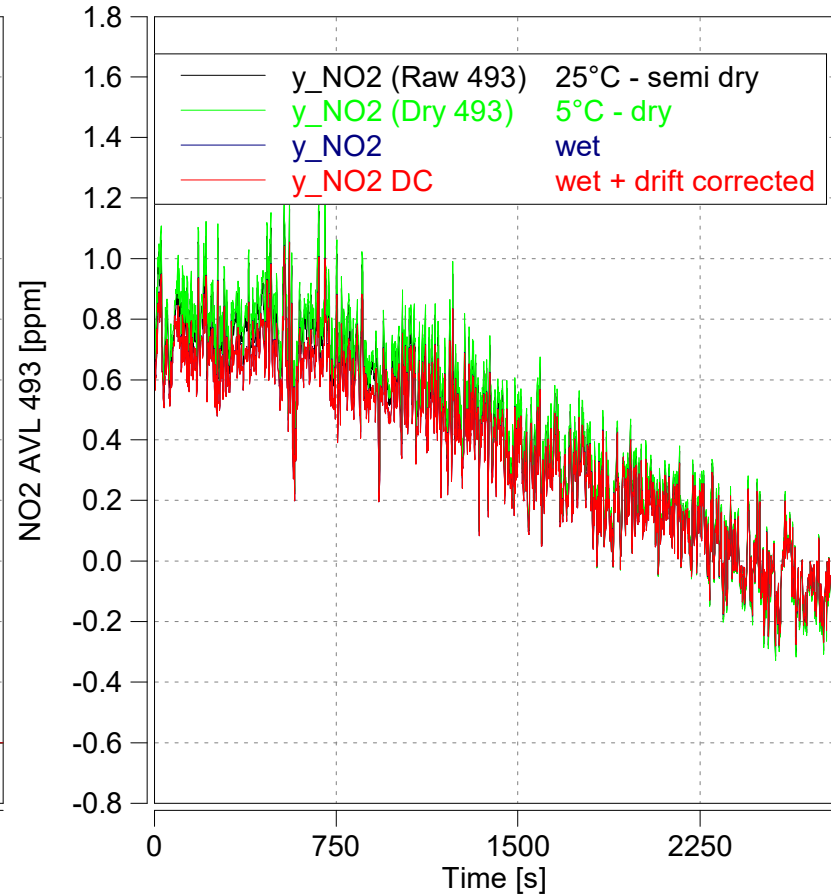
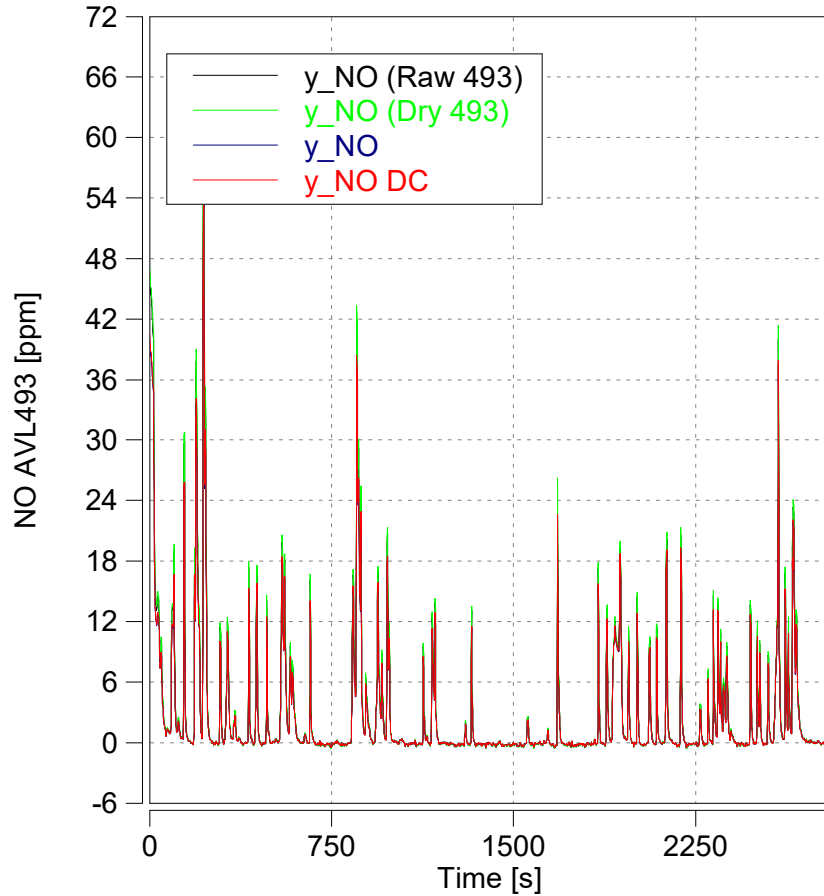


Concerto M.O.V.E., 2018



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

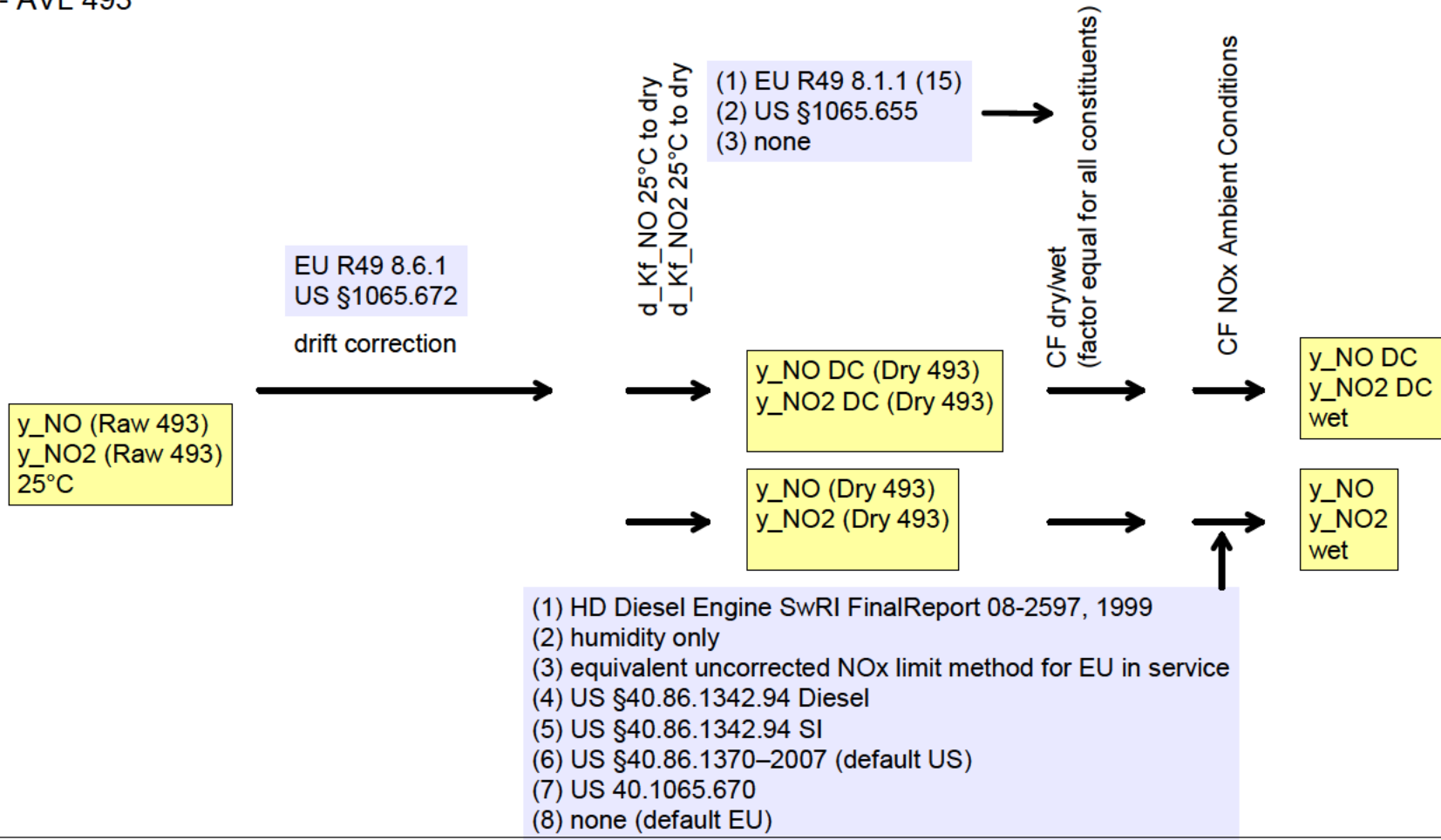


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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)

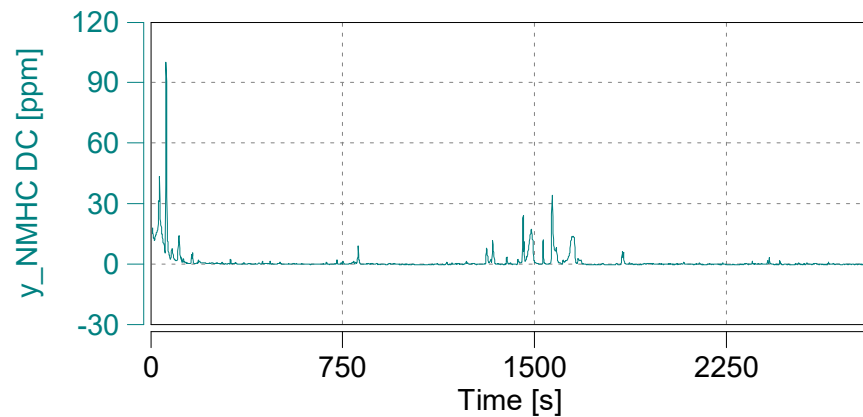
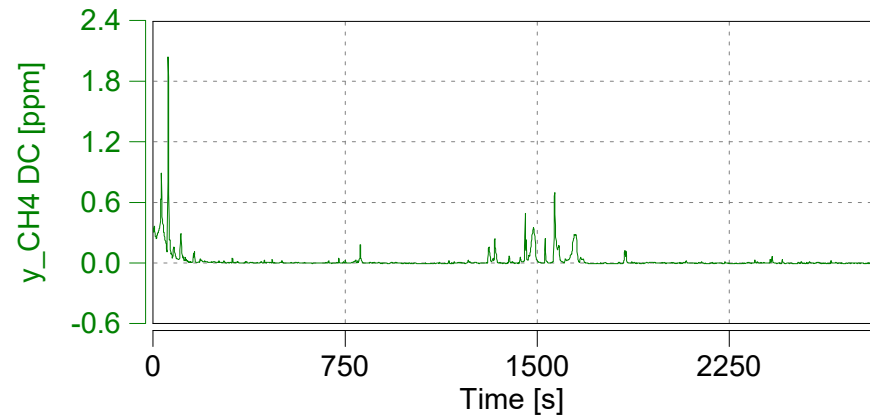
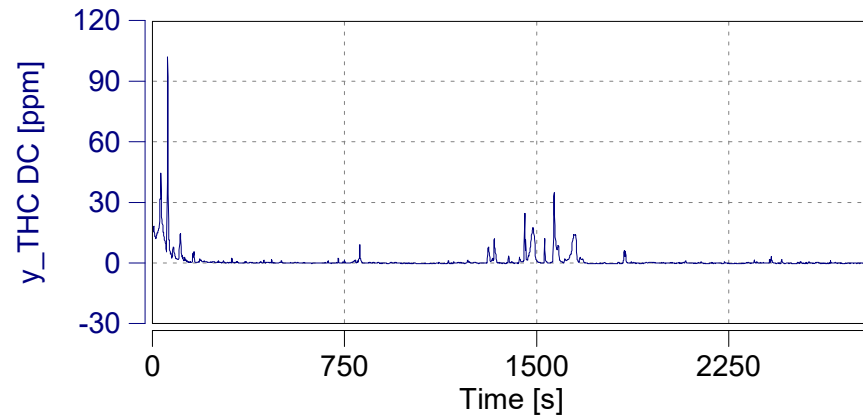
'Highway'

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

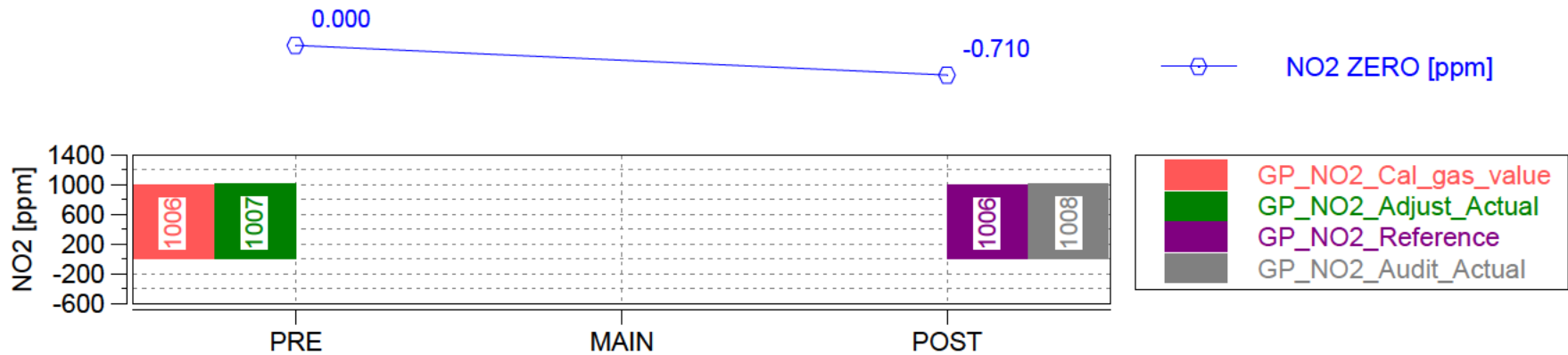
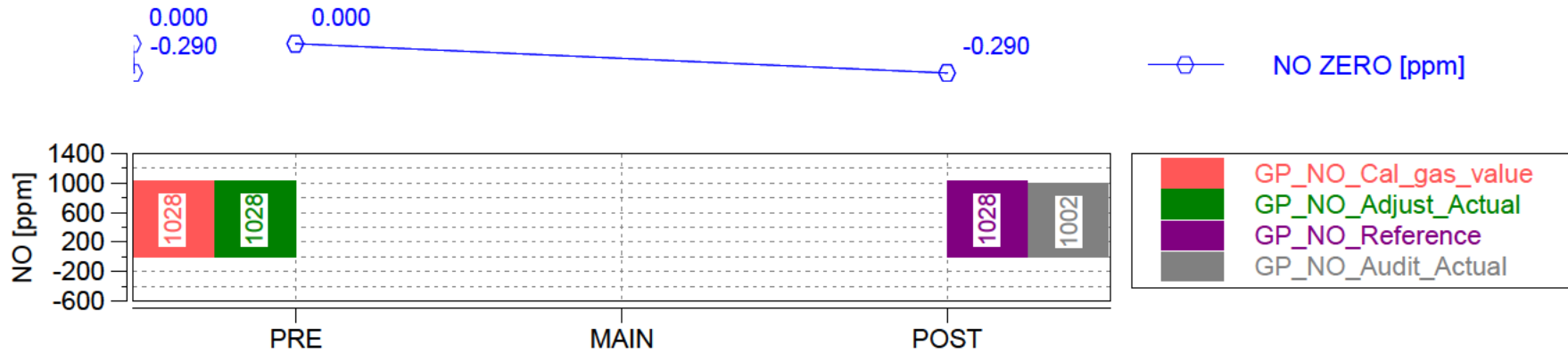
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Vehicle: A6 / 3.0 L

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

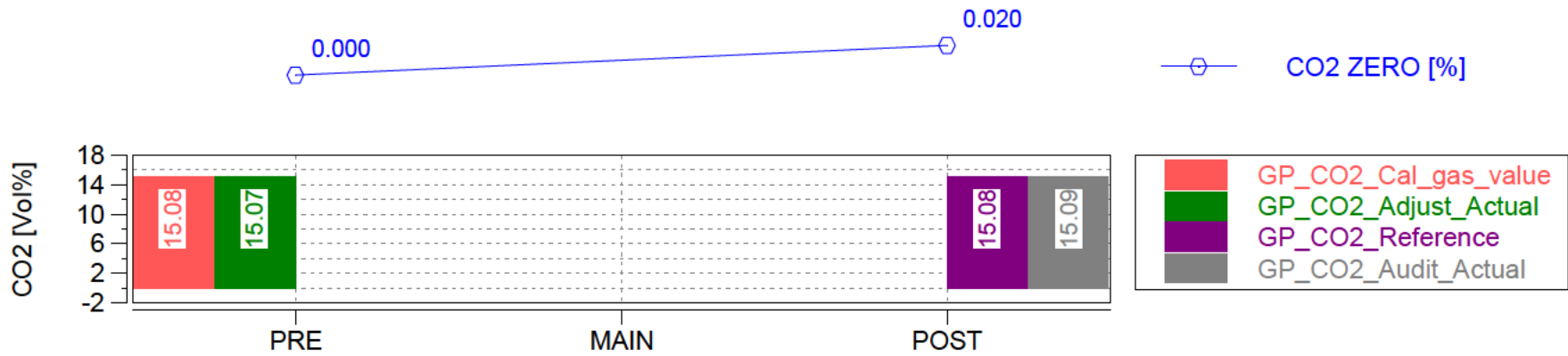
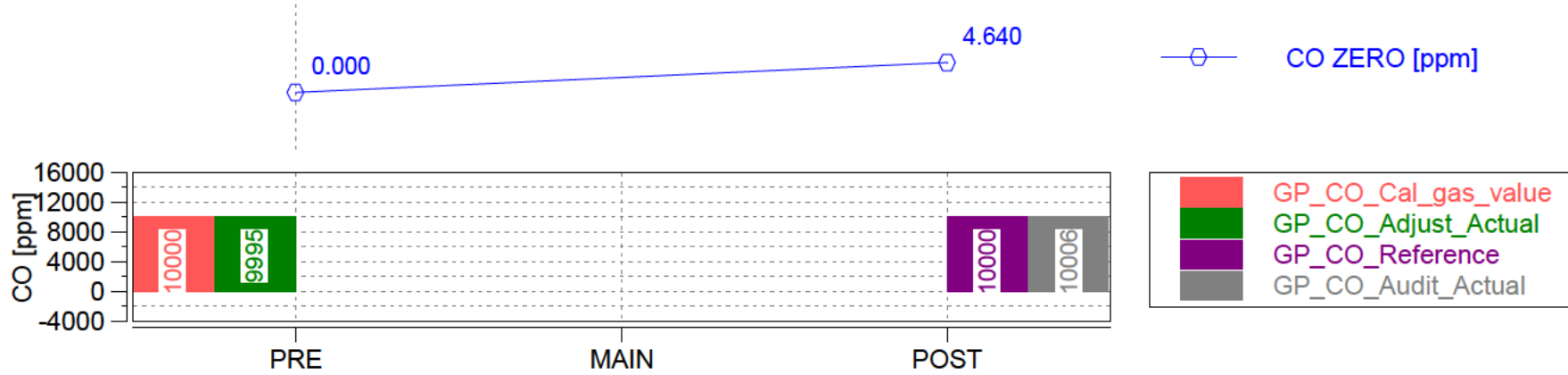
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Vehicle: A6 / 3.0 L

Engine: /

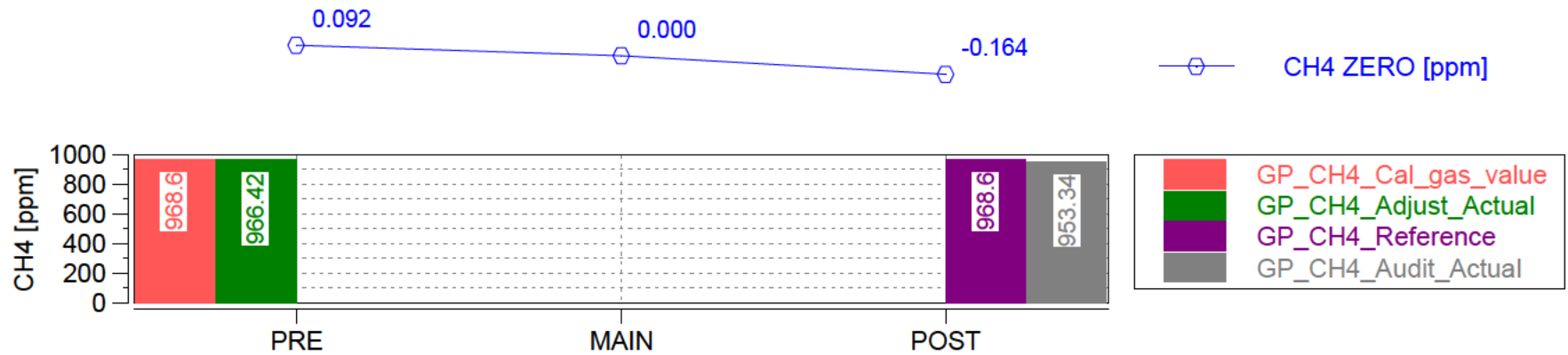
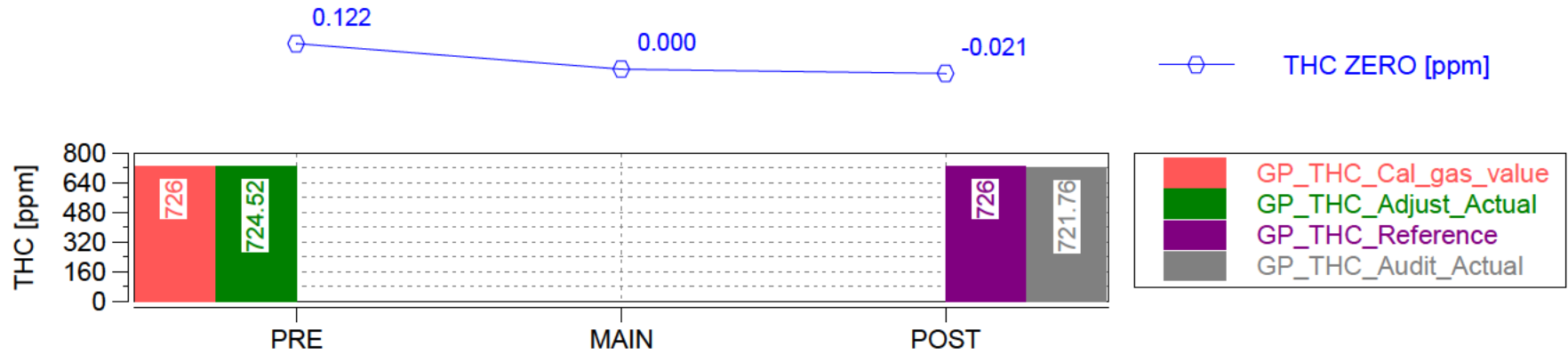
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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: 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
			ave CO2	10.69375	%	BS CH4	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx	3.27593	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)	3.38	kg	ave Soot meas	n/a	mg/m3	BS NOx	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.35	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	0.08105	g	BS PN	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.20	gall	tot NMHC	0.07497	g			
Trip Fuel Cons. Volume US (ac)	1.18	gall	tot CH4	0.00180	g	DS CO2	361.30408	g/mi
			tot CO	2.21175	g	DS CO	0.07839	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2	10194.34681	g	DS THC	0.00287	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO (d)	0.31494	g	DS NMHC	0.00266	g/mi
Trip Fuel Economy EU (ac)	23.60	mpg_US	tot NO2	0.05790	g	DS CH4	0.00006	g/mi
Trip Fuel Economy US (ac)	23.83	mpg_US	tot NOx	0.37284	g	DS NO (d)	0.01116	g/mi
			tot Soot	n/a	g	DS NO2	0.00205	g/mi
Trip Av. Eng. Speed	1172.73	rpm	tot Soot meas	n/a	g	DS NOx	0.01321	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	57.07	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	81.14	deg_F				FS NMHC	n/a	g/kg
Trip Av. Humidity	45.80	%	Trip Av. Veh. Speed	27.98378	mi/hr	FS CH4	n/a	g/kg
			Trip Velocity Zero	20.96419	%	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: 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
			ave CO2 DC	10.69375	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave NOx DC	3.30450	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)	3.38	kg	ave Soot meas	n/a	mg/m3	BS NOx DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.35	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	0.07963	g	BS PN DC	n/a	#/hpr
Trip Fuel Cons. Volume EU (ac)	1.20	gall	tot NMHC DC	0.07366	g			
Trip Fuel Cons. Volume US (ac)	1.18	gall	tot CH4 DC	0.00176	g	DS CO2 DC	361.30408	g/mi
			tot CO DC	2.21156	g	DS CO DC	0.07838	g/mi
Trip Fuel Economy (b)	n/a	mpg_US	tot CO2 DC	10194.34681	g	DS THC DC	0.00282	g/mi
Trip Fuel Economy (ab)	n/a	mpg_US	tot NO DC (d)	0.31872	g	DS NMHC DC	0.00261	g/mi
Trip Fuel Economy EU (ac)	23.60	mpg_US	tot NO2 DC	0.05777	g	DS CH4 DC	0.00006	g/mi
Trip Fuel Economy US (ac)	23.83	mpg_US	tot NOx DC	0.37650	g	DS NO DC (d)	0.01130	g/mi
			tot Soot	n/a	g	DS NO2 DC	0.00205	g/mi
Trip Av. Eng. Speed	1172.73	rpm	tot Soot meas	n/a	g	DS NOx DC	0.01334	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	57.07	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	81.14	deg_F				FS NMHC DC	n/a	g/kg
Trip Av. Humidity	45.80	%	Trip Av. Veh. Speed	27.98378	mi/hr	FS CH4 DC	n/a	g/kg
			Trip Velocity Zero	20.96419	%	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

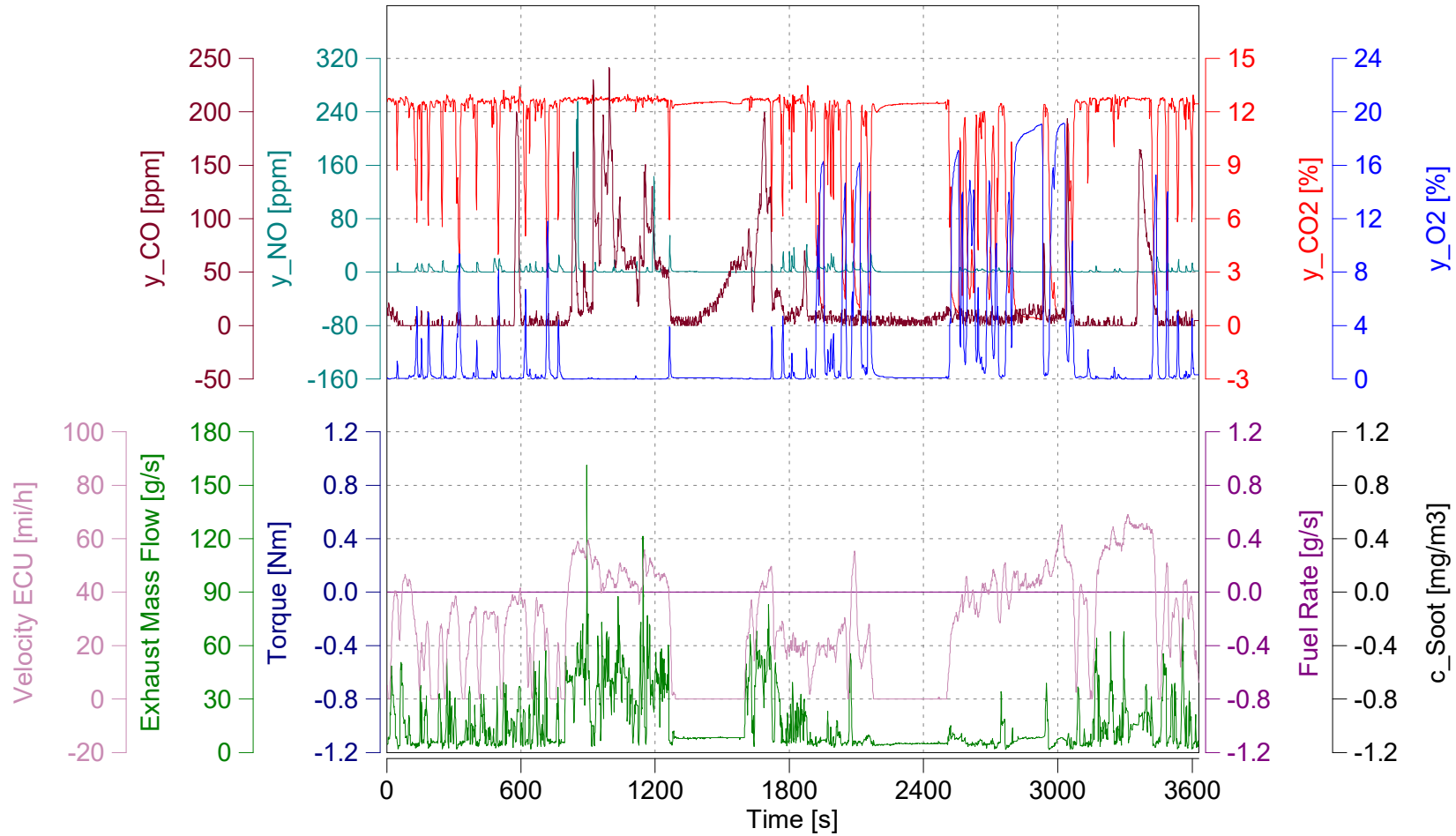
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Vehicle: A6 / 3.0 L

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

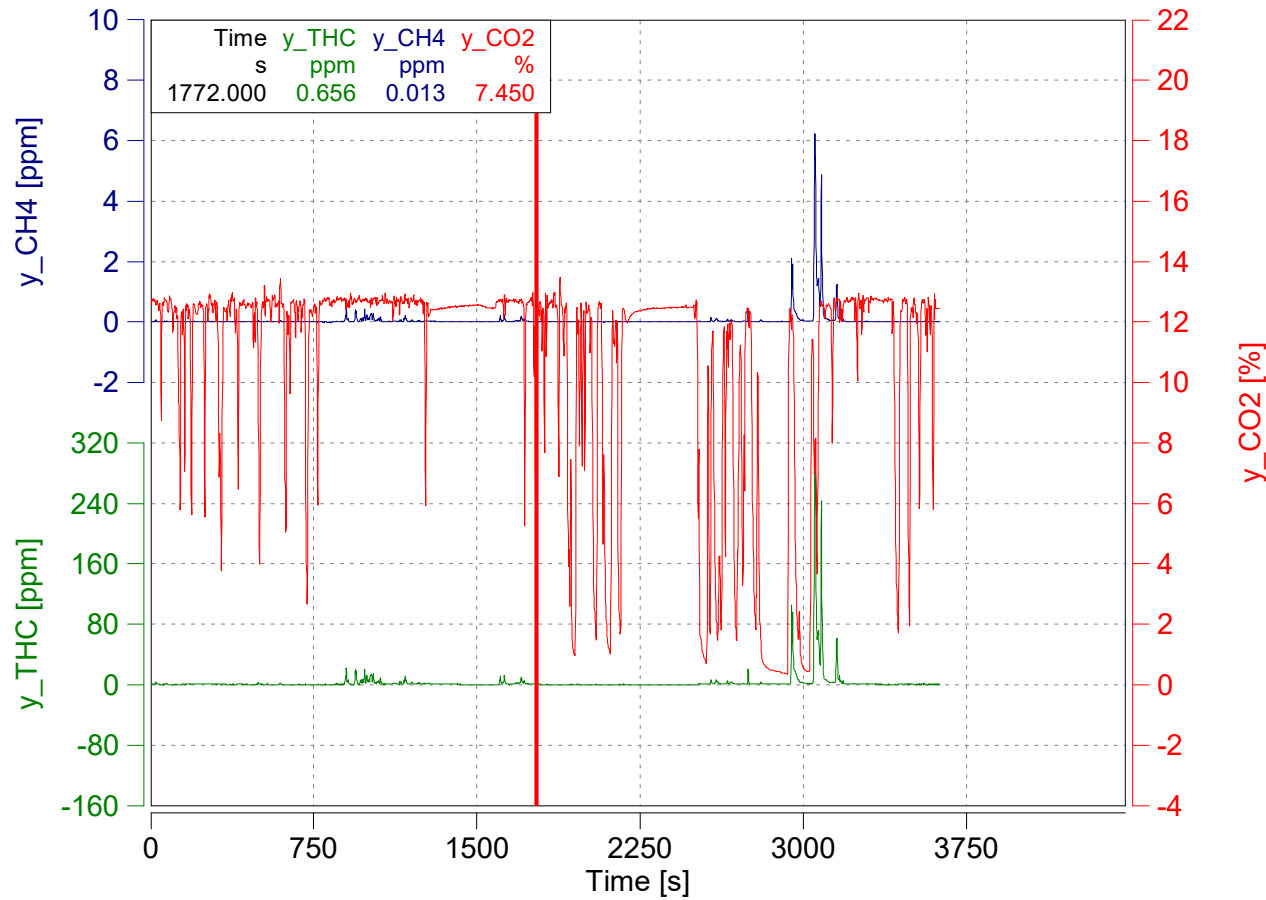
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Vehicle: A6 / 3.0 L

Engine: /

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

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

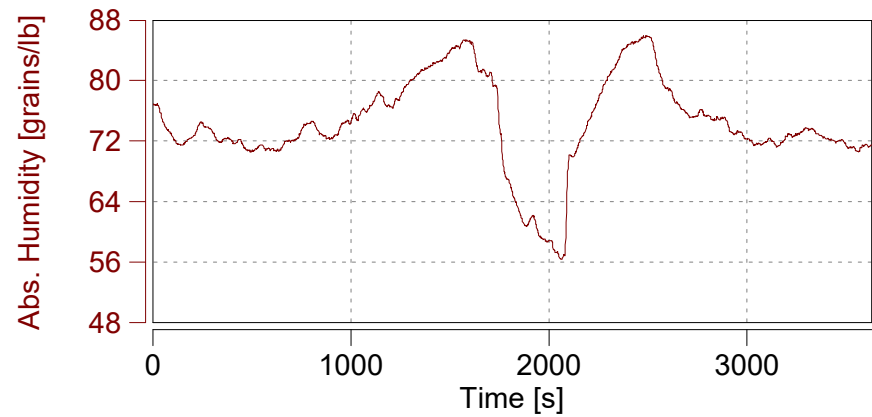
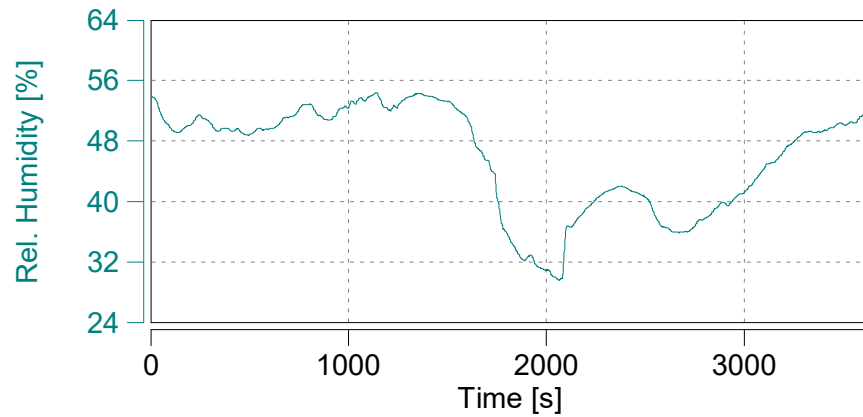
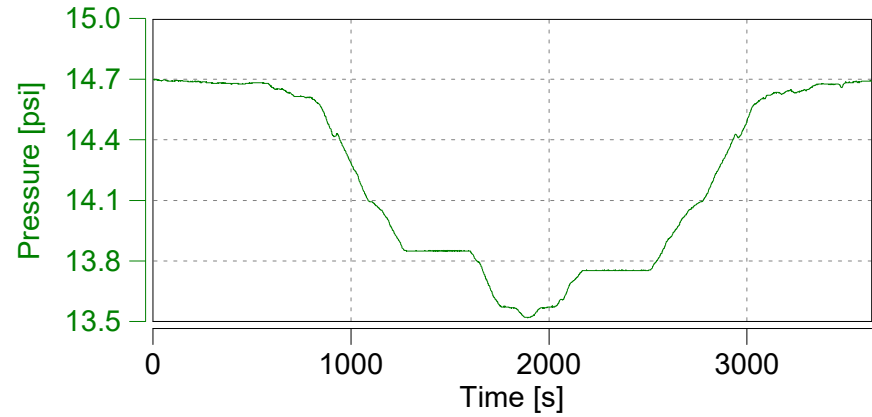
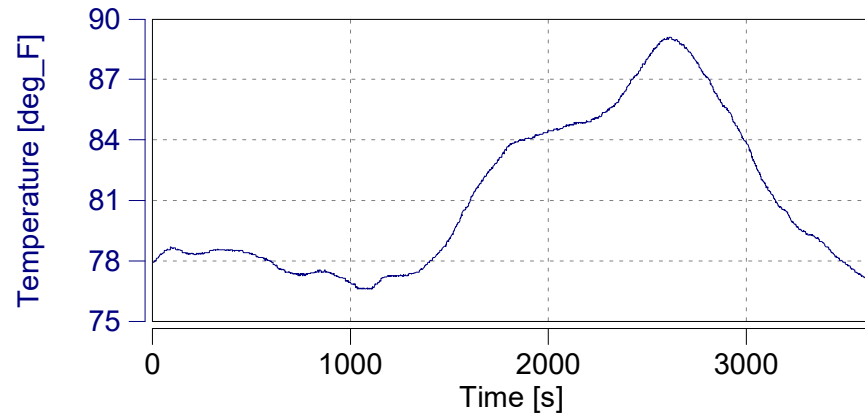


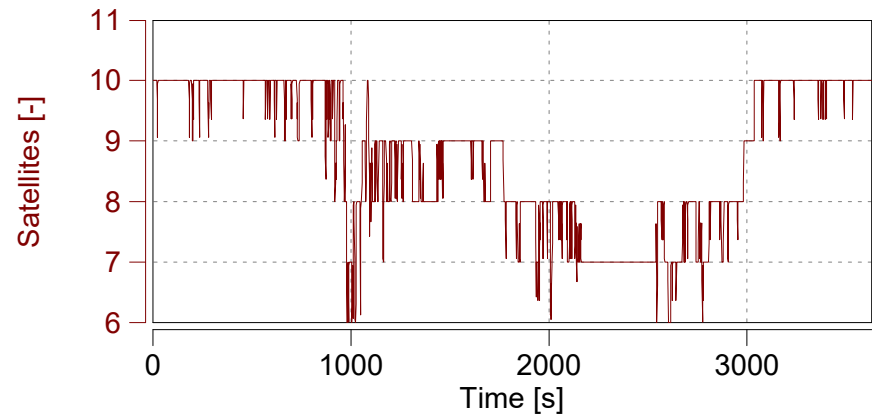
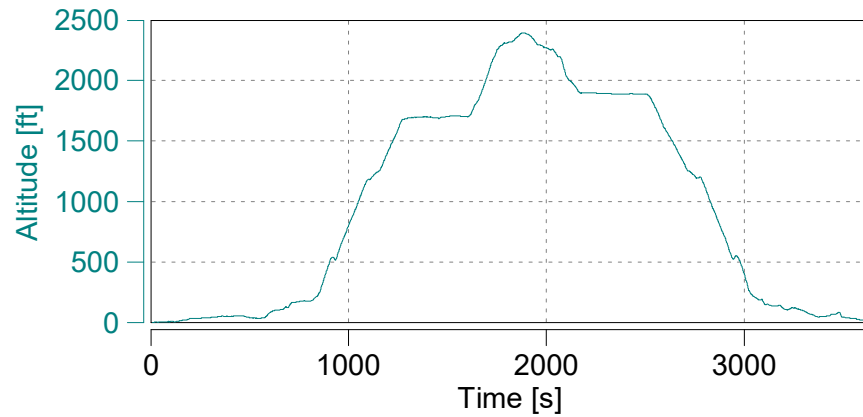
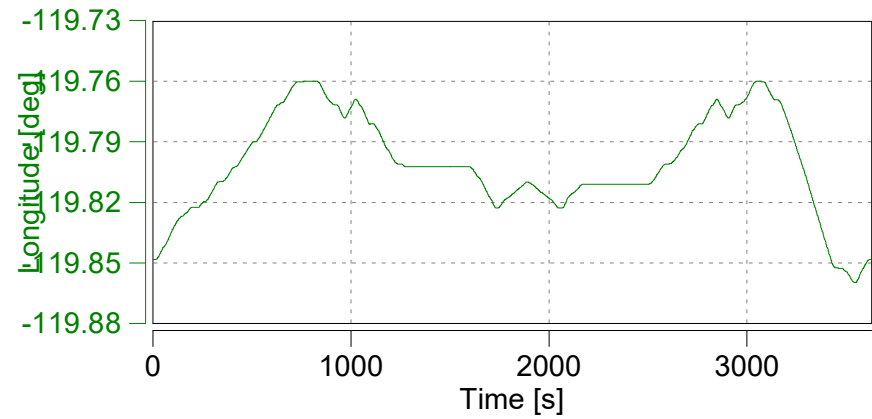
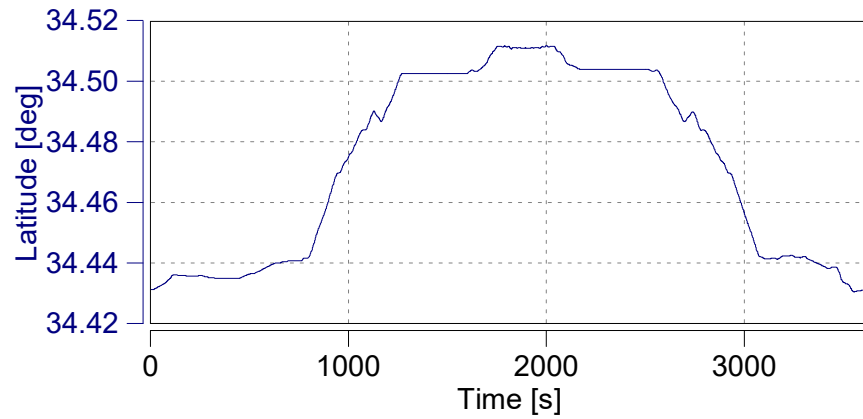
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y_CH4	s	-1.1

Reset Time Shifts in Plot

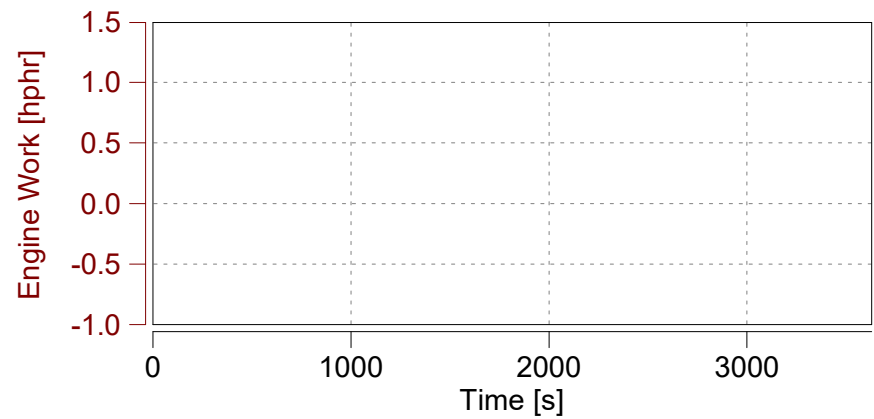
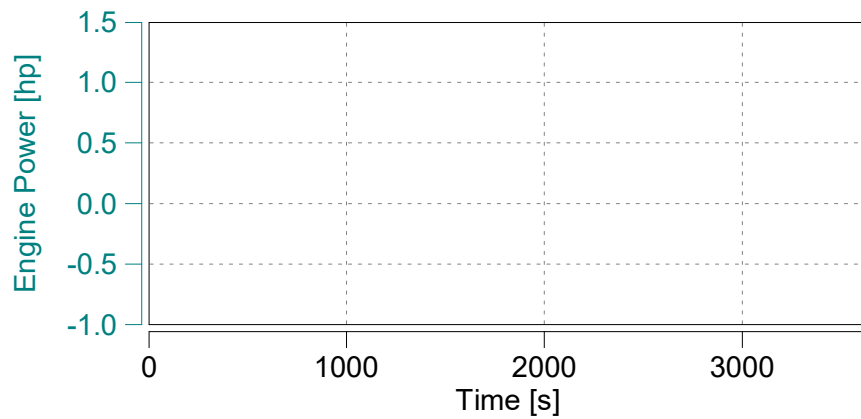
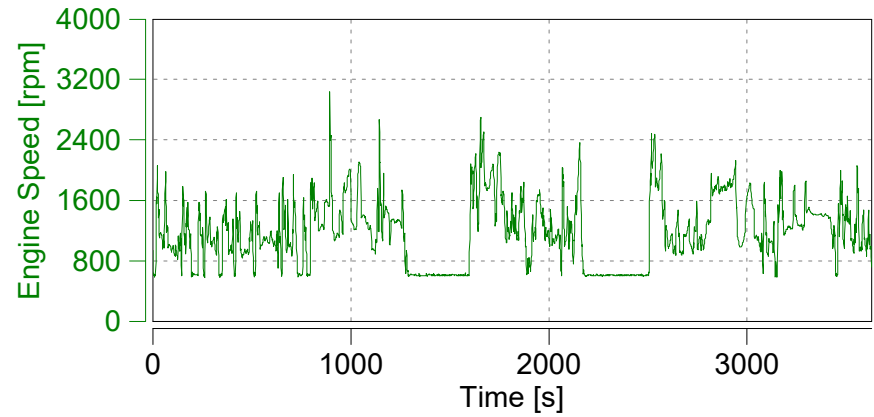
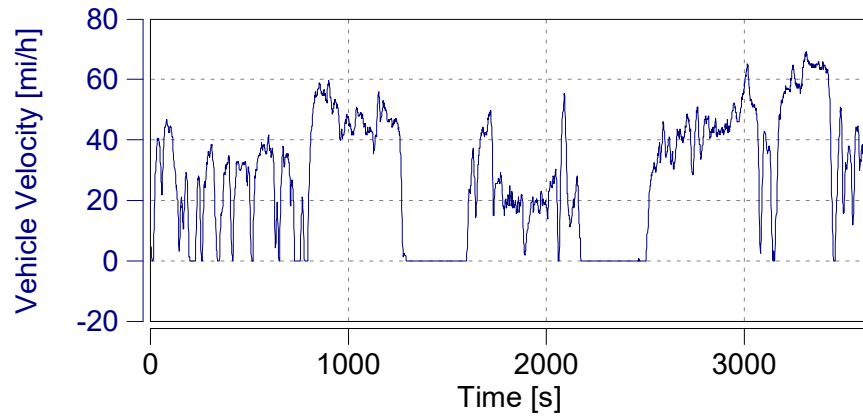
Apply Current Values





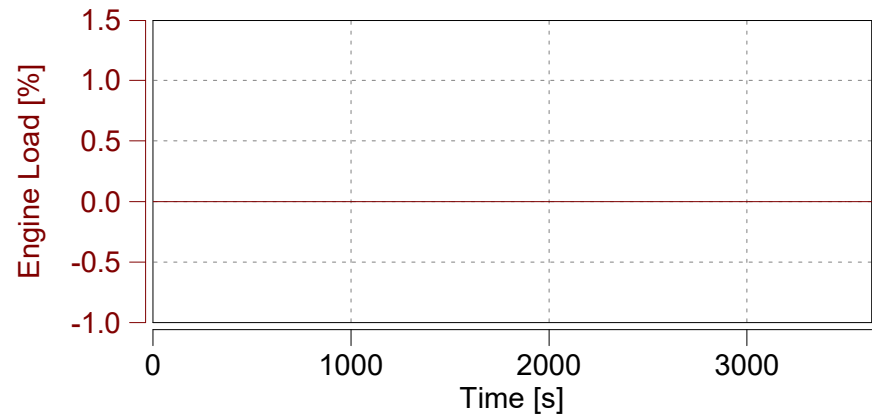
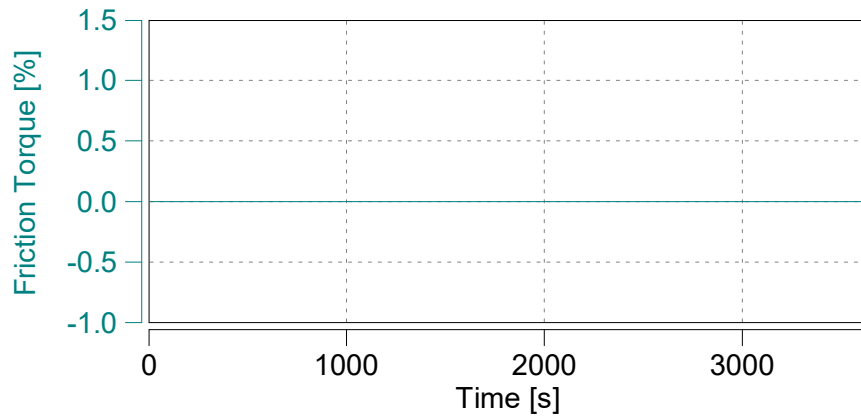
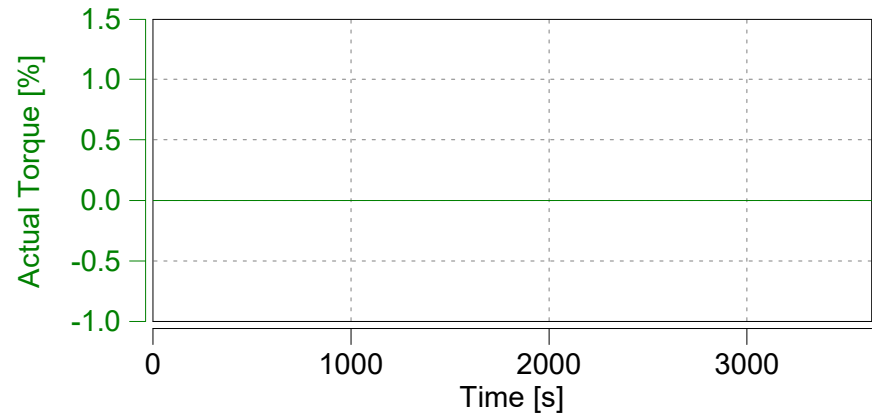
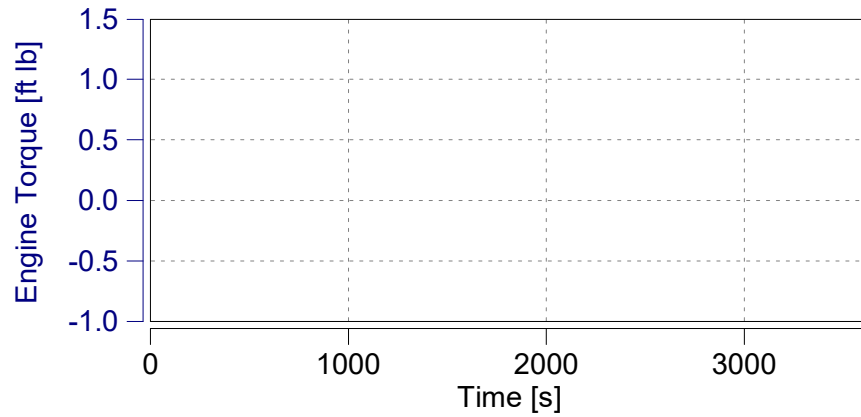
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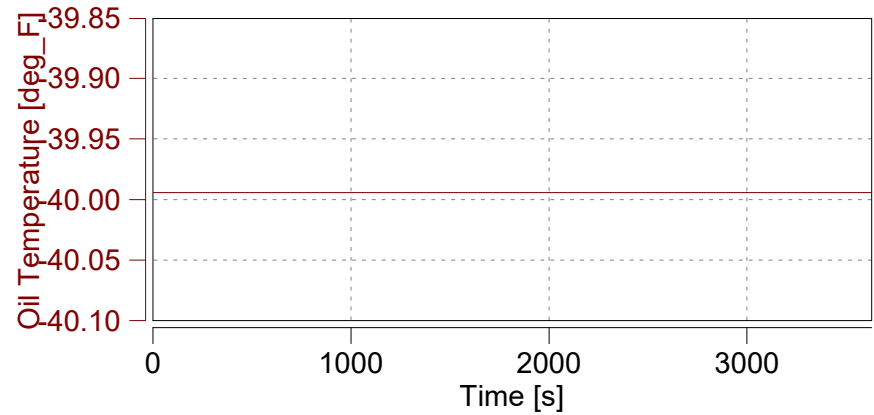
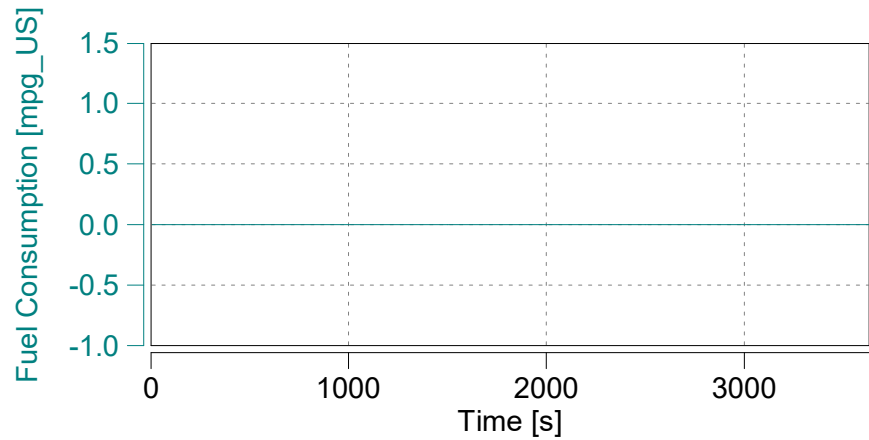
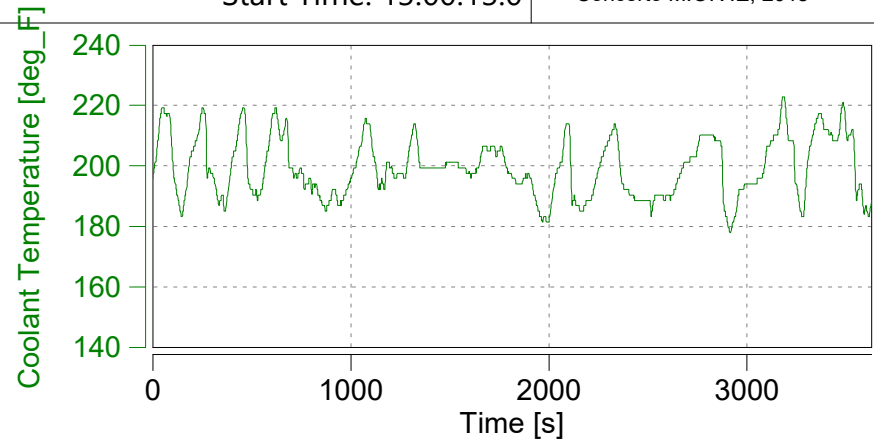
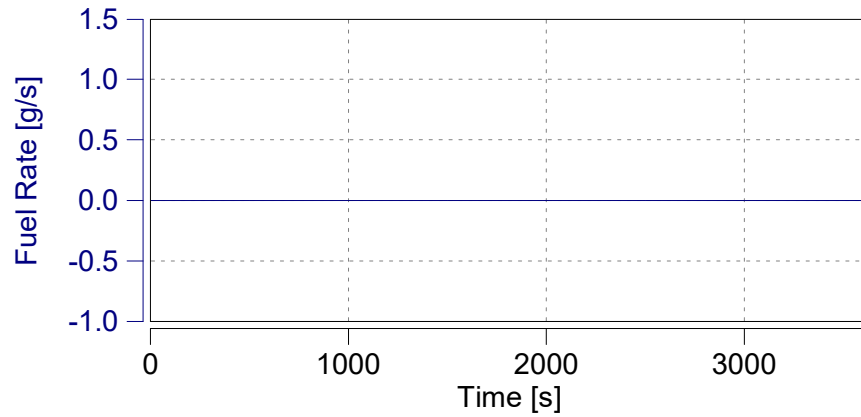
Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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_

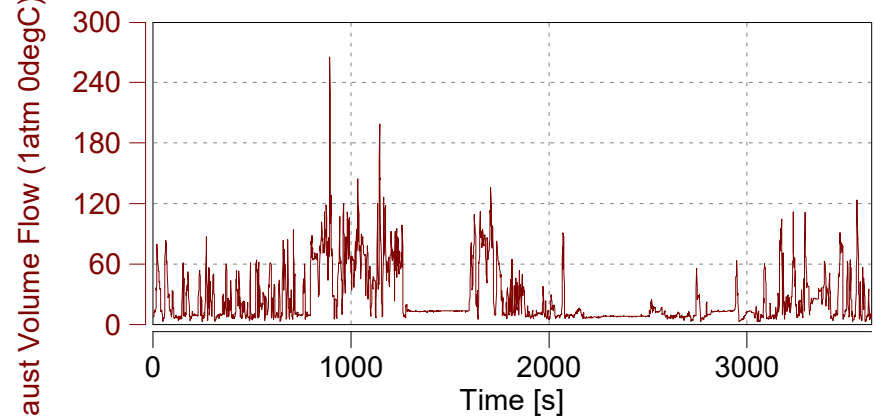
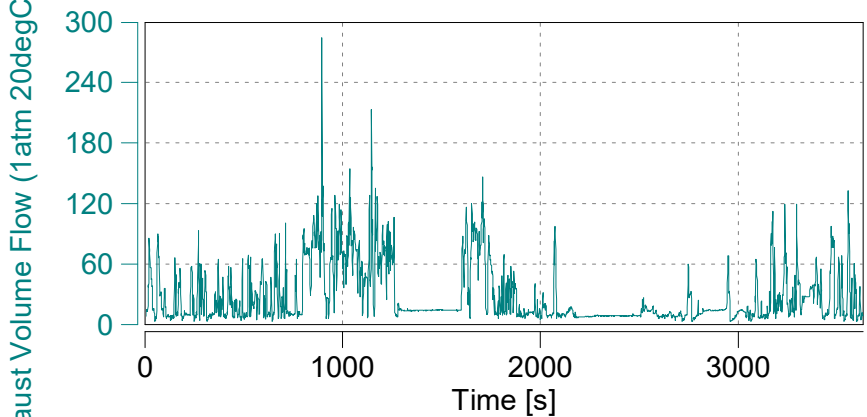
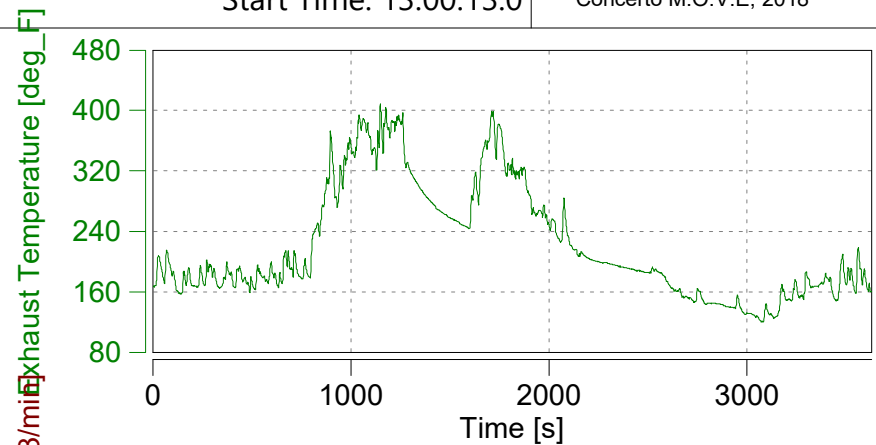
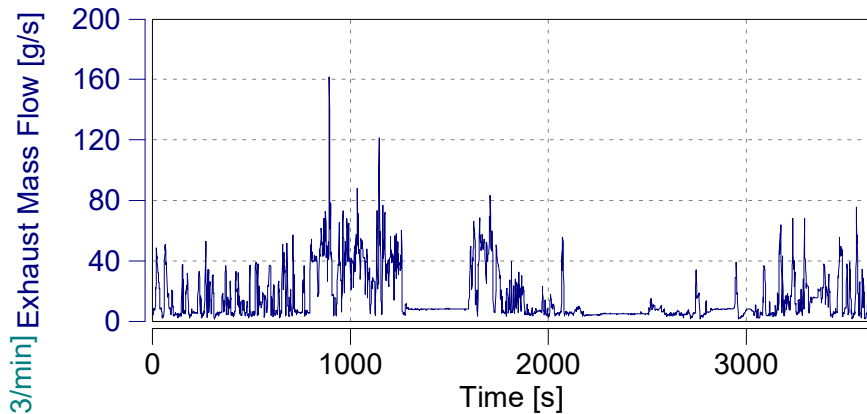
Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





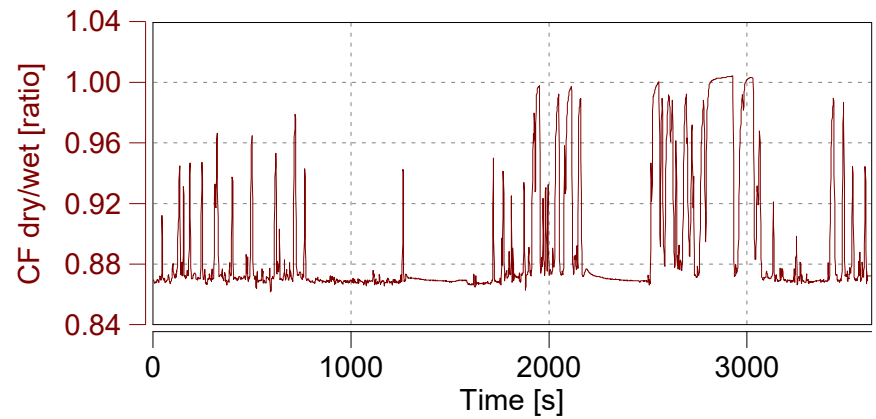
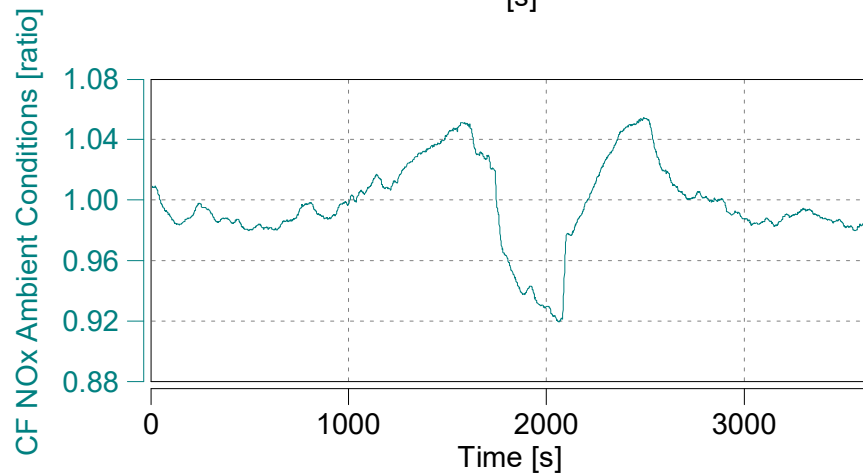
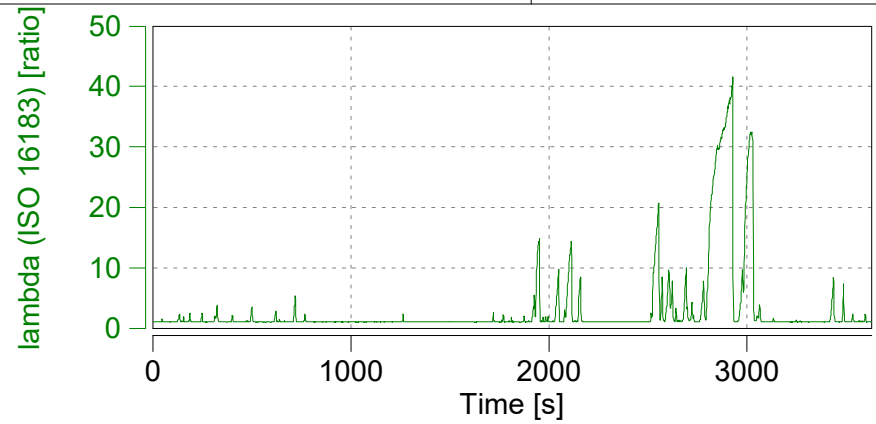
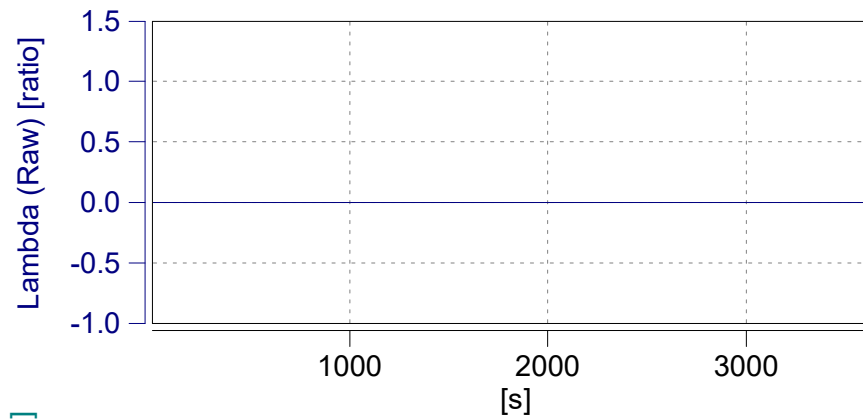
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



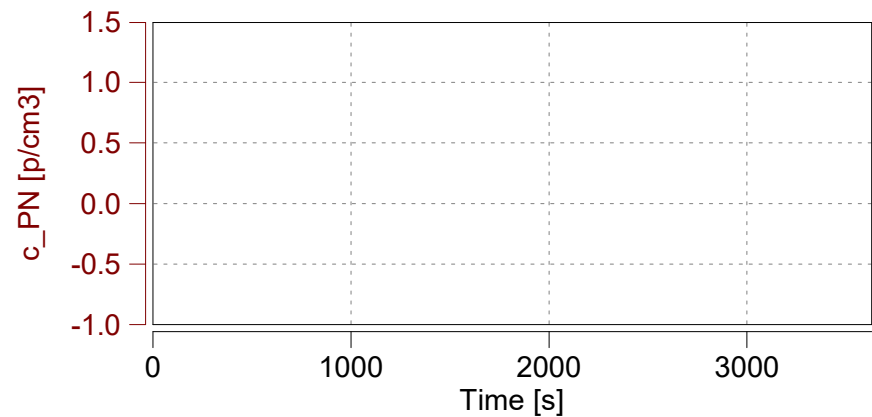
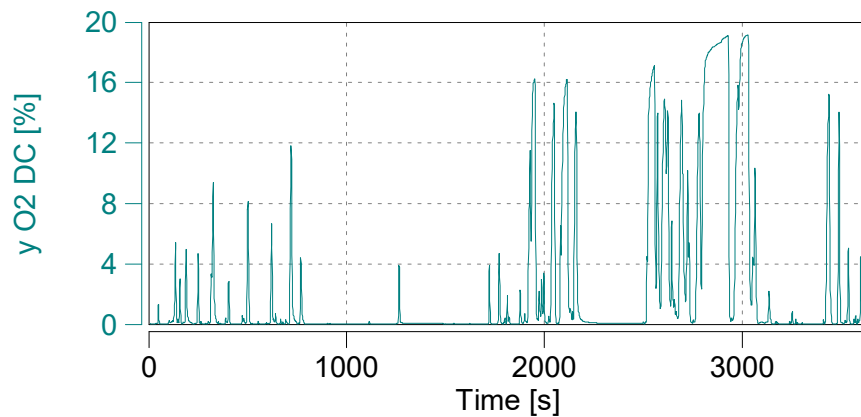
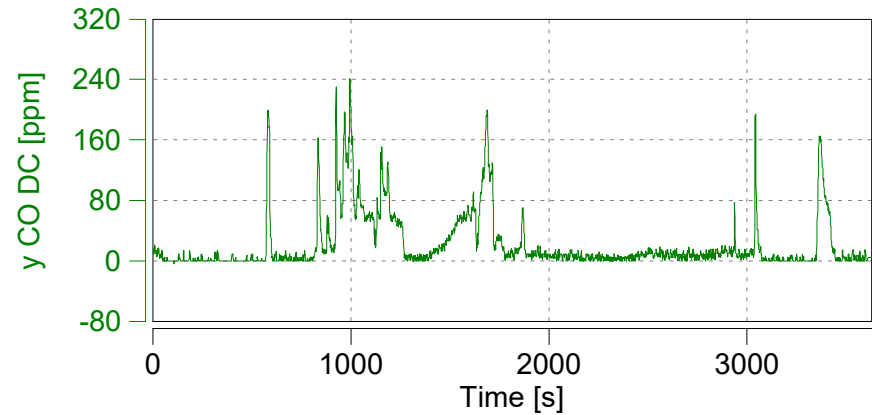
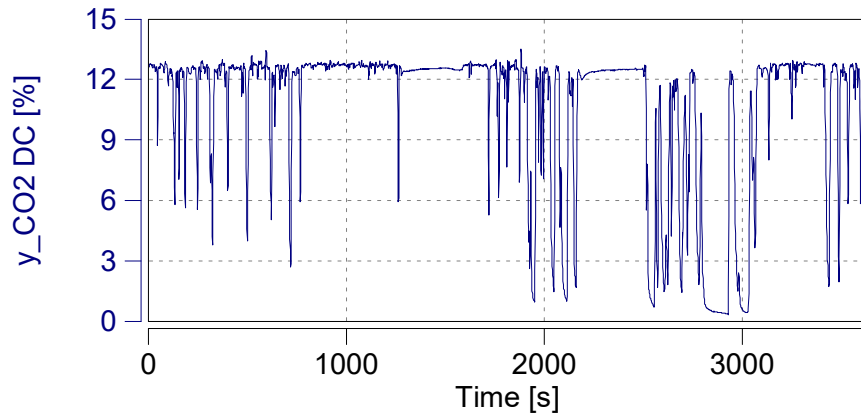
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1

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



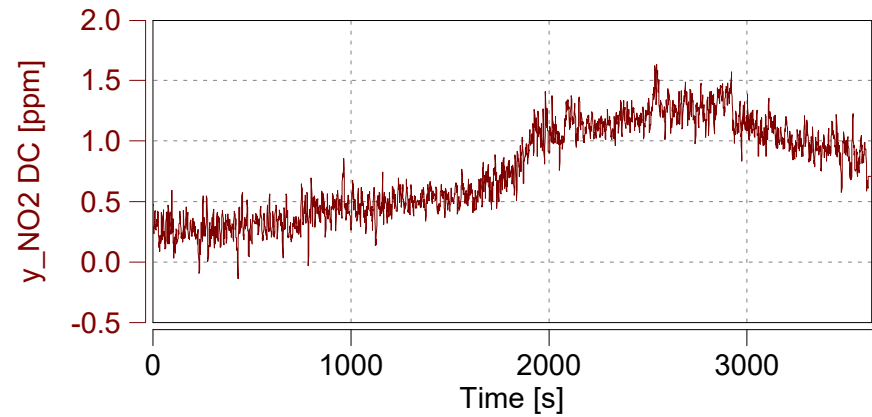
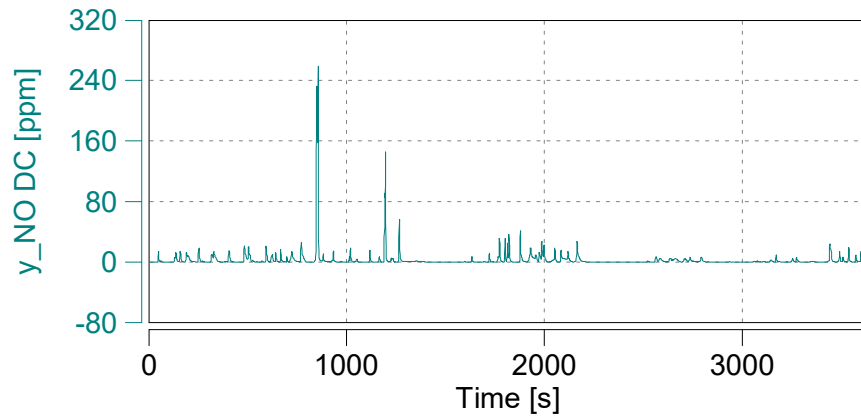
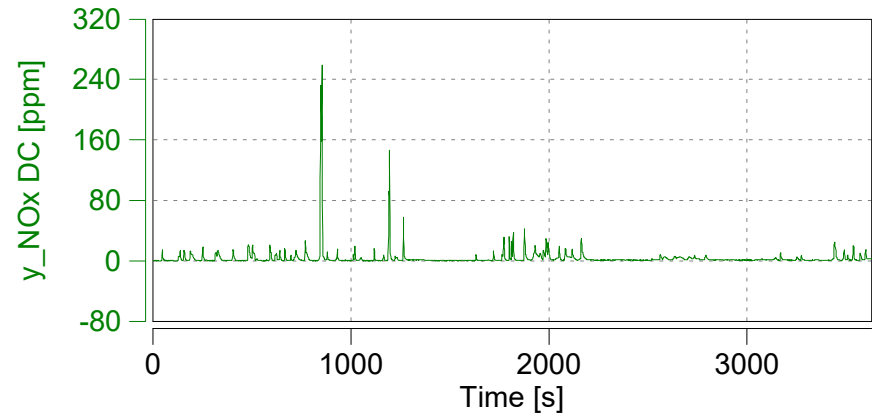
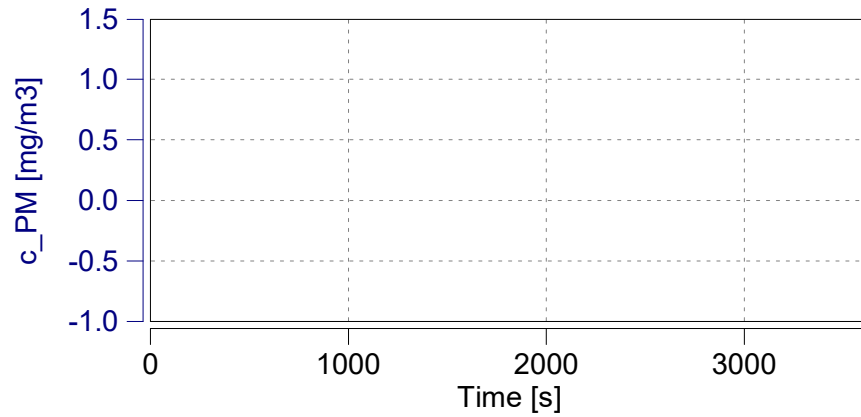
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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



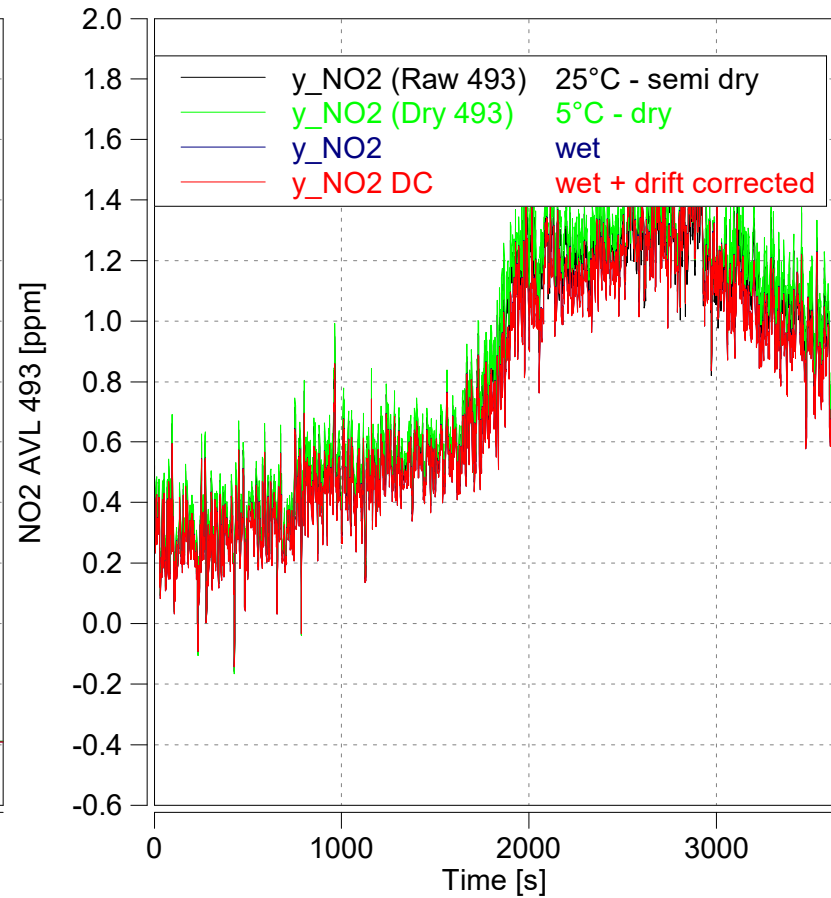
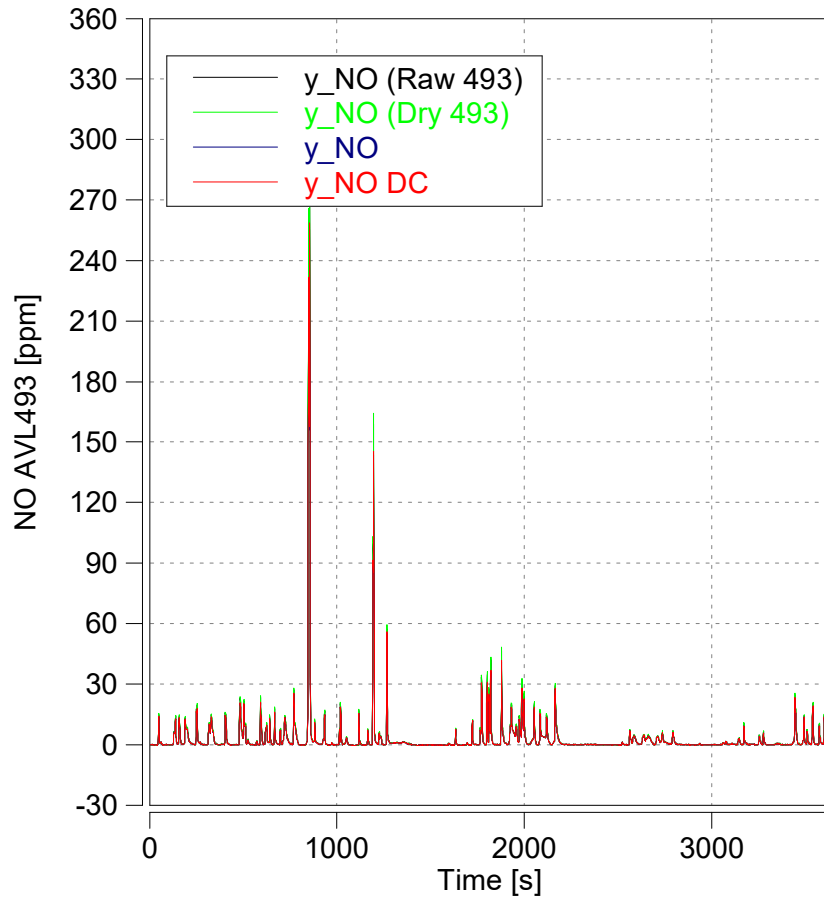
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Vehicle: A6 / 3.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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

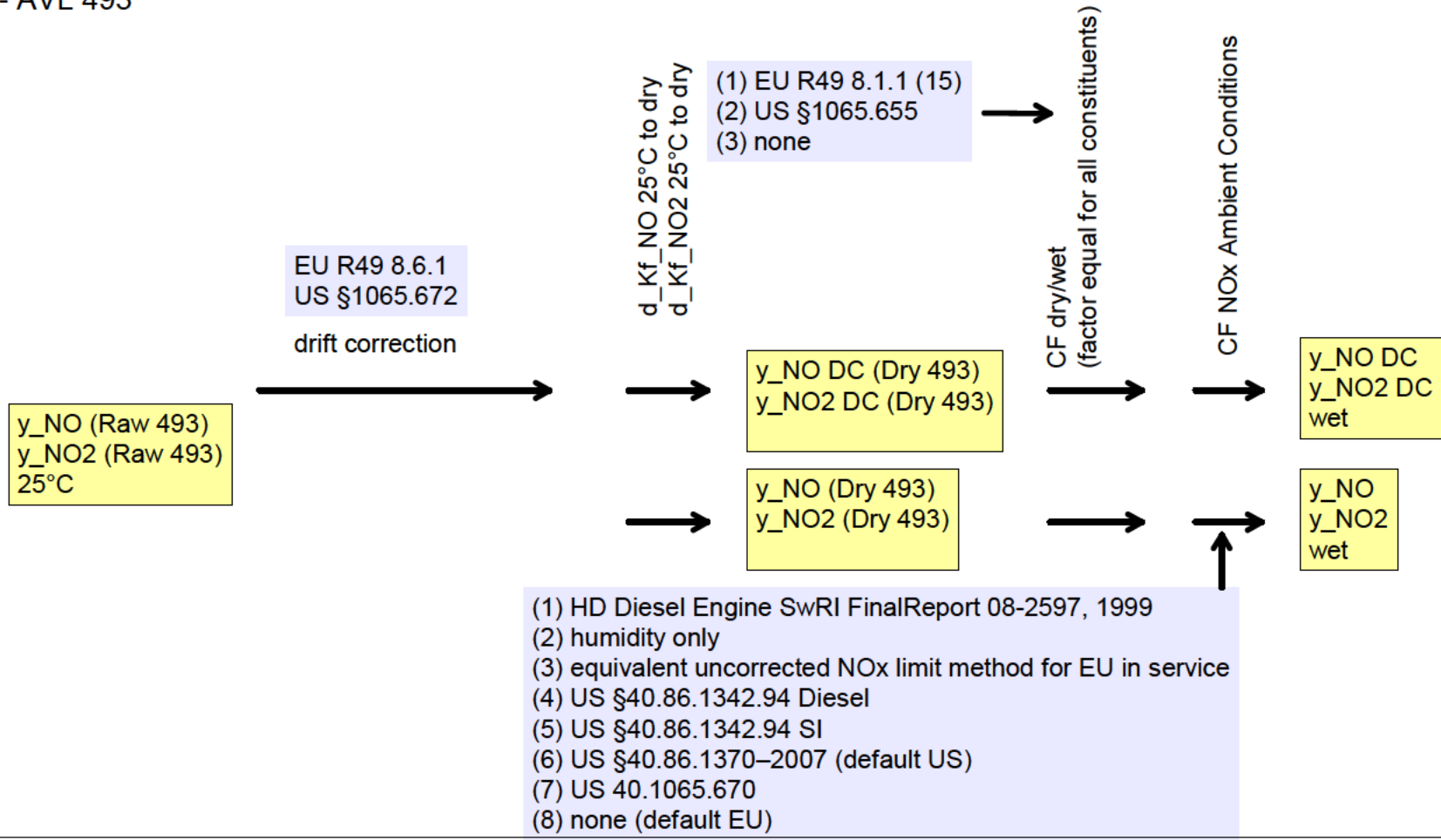


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R1_

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: Mountain

Page: Corrected Emissions (5)

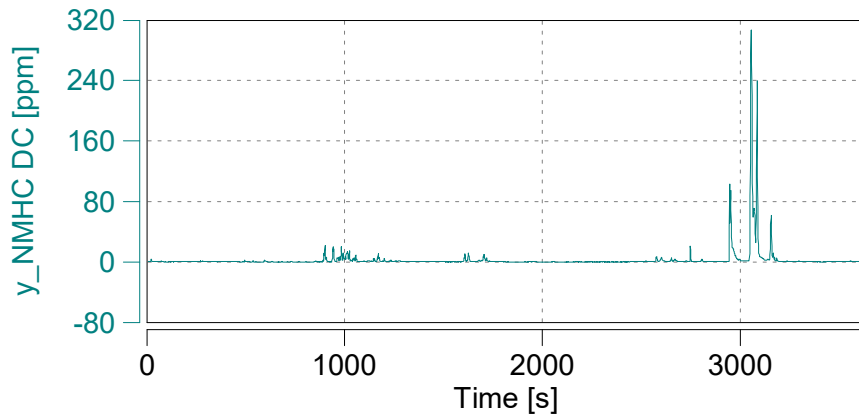
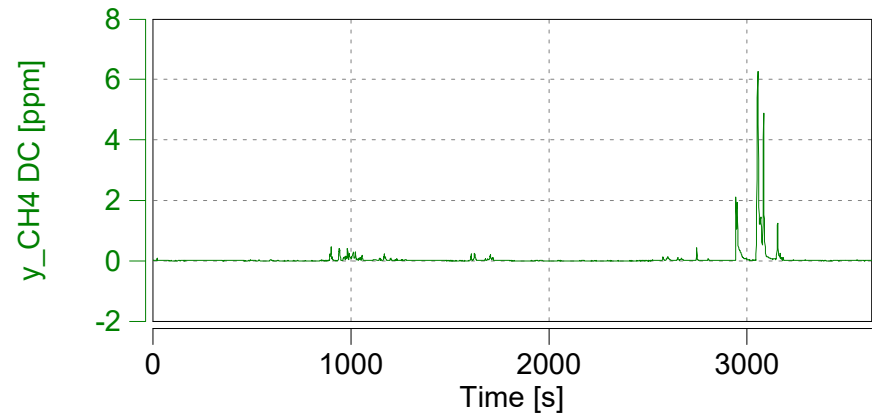
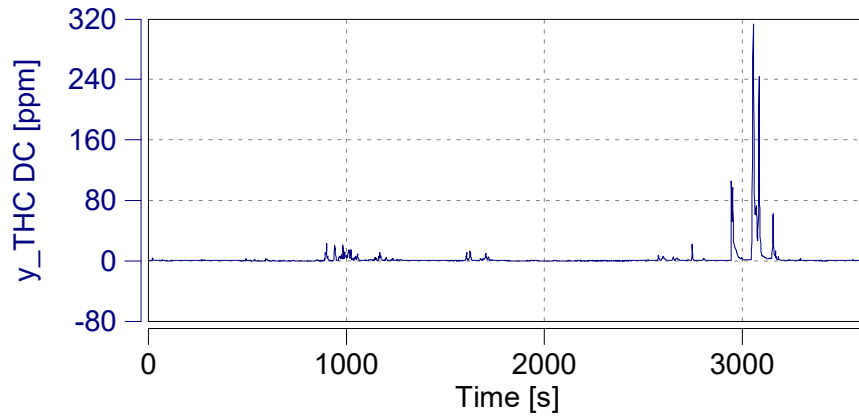
'Mountain'

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

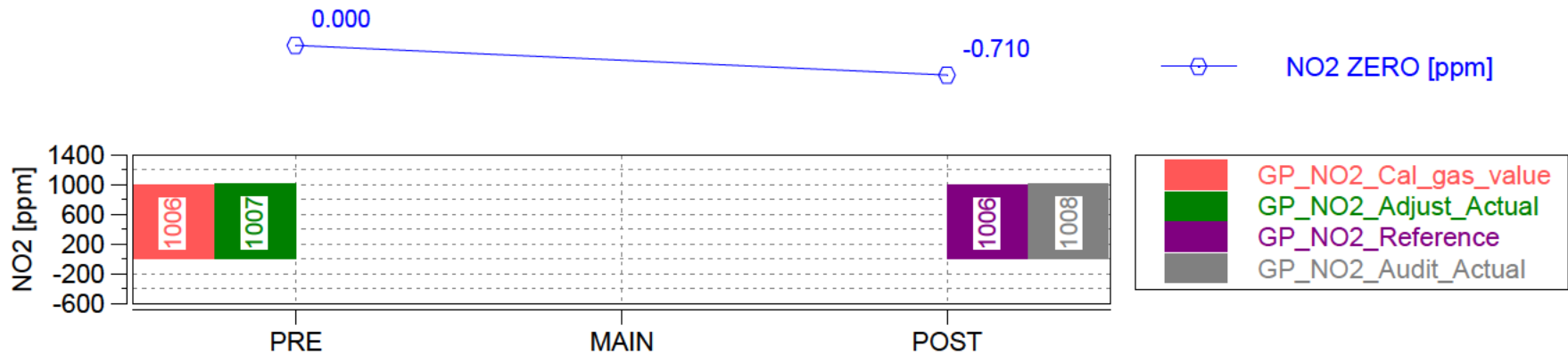
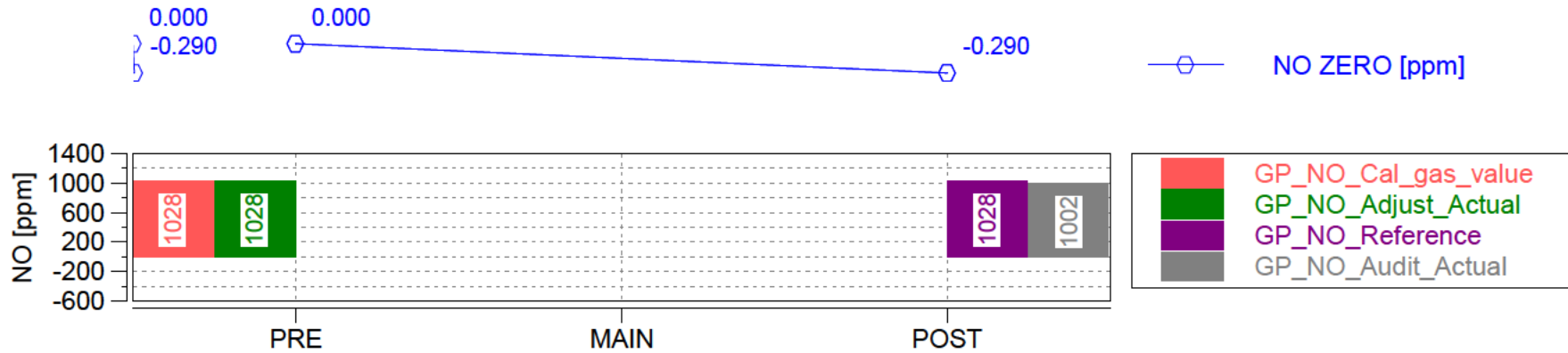
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Vehicle: A6 / 3.0 L

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

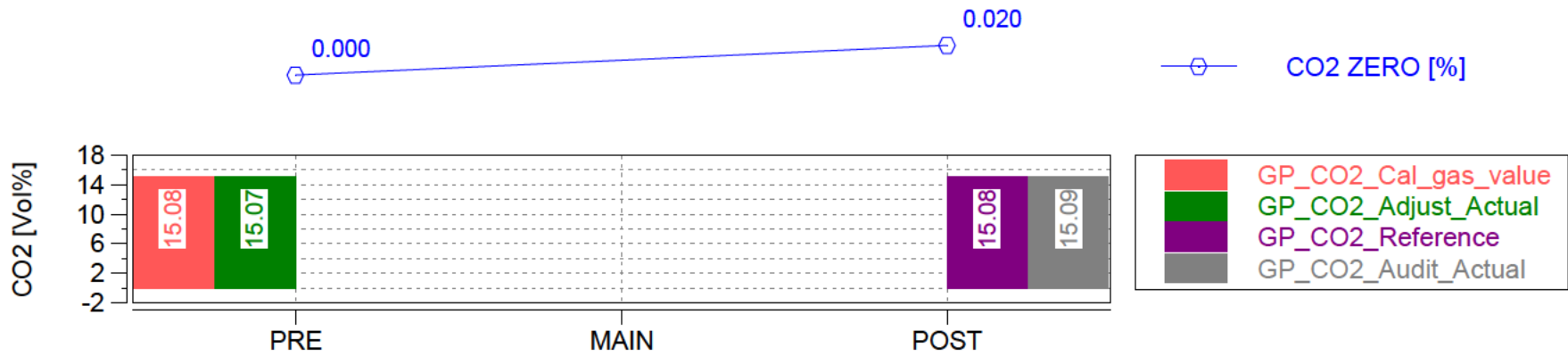
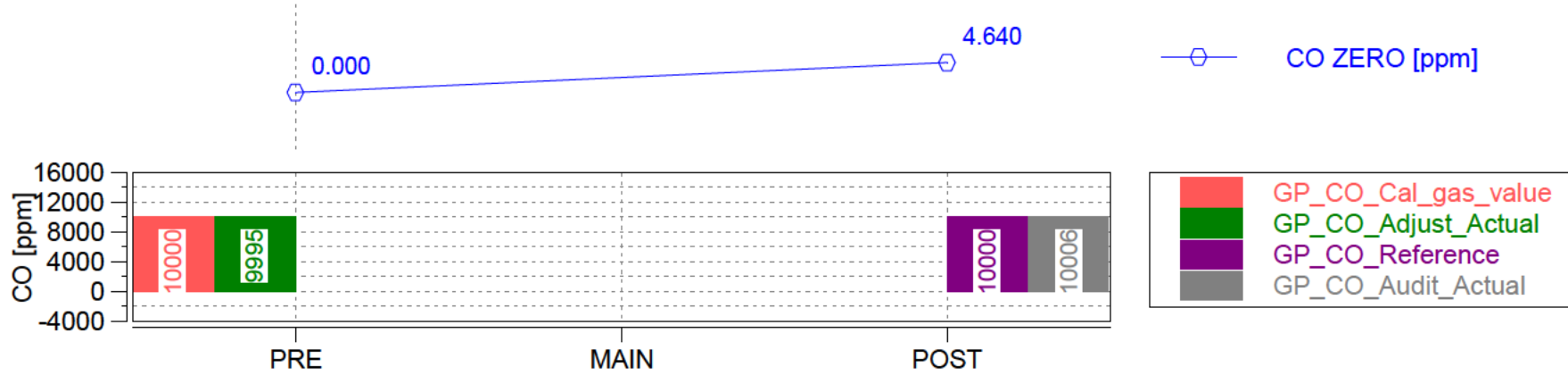
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Vehicle: A6 / 3.0 L

Engine: /

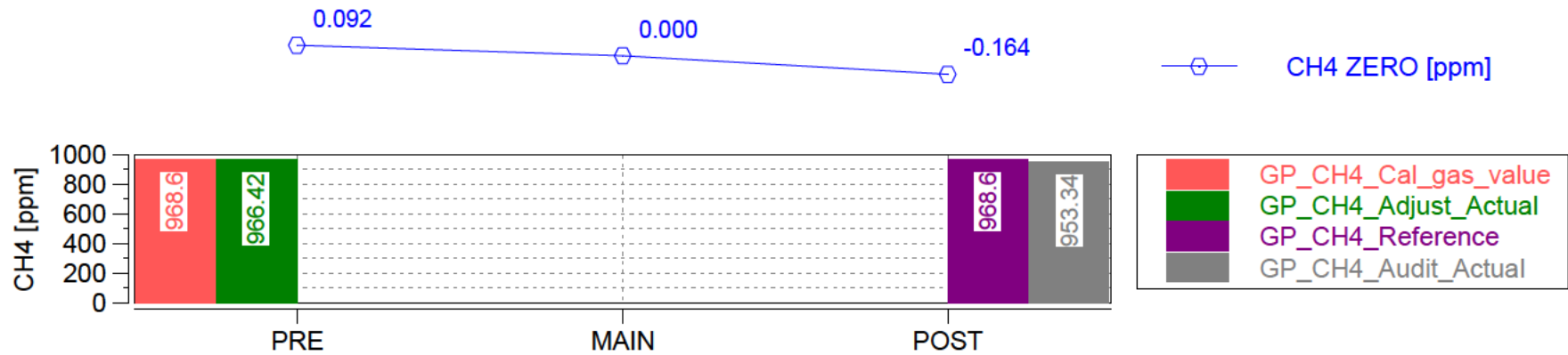
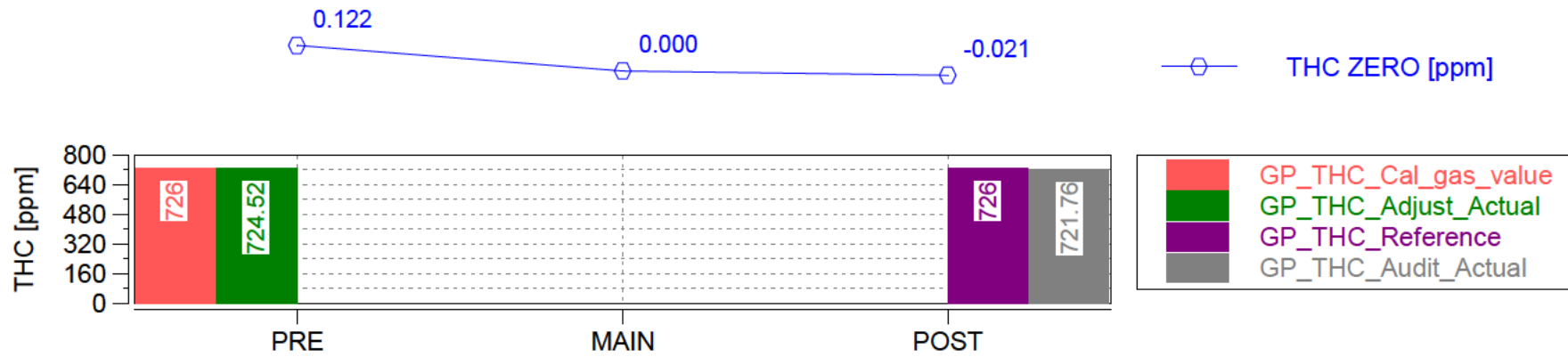
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



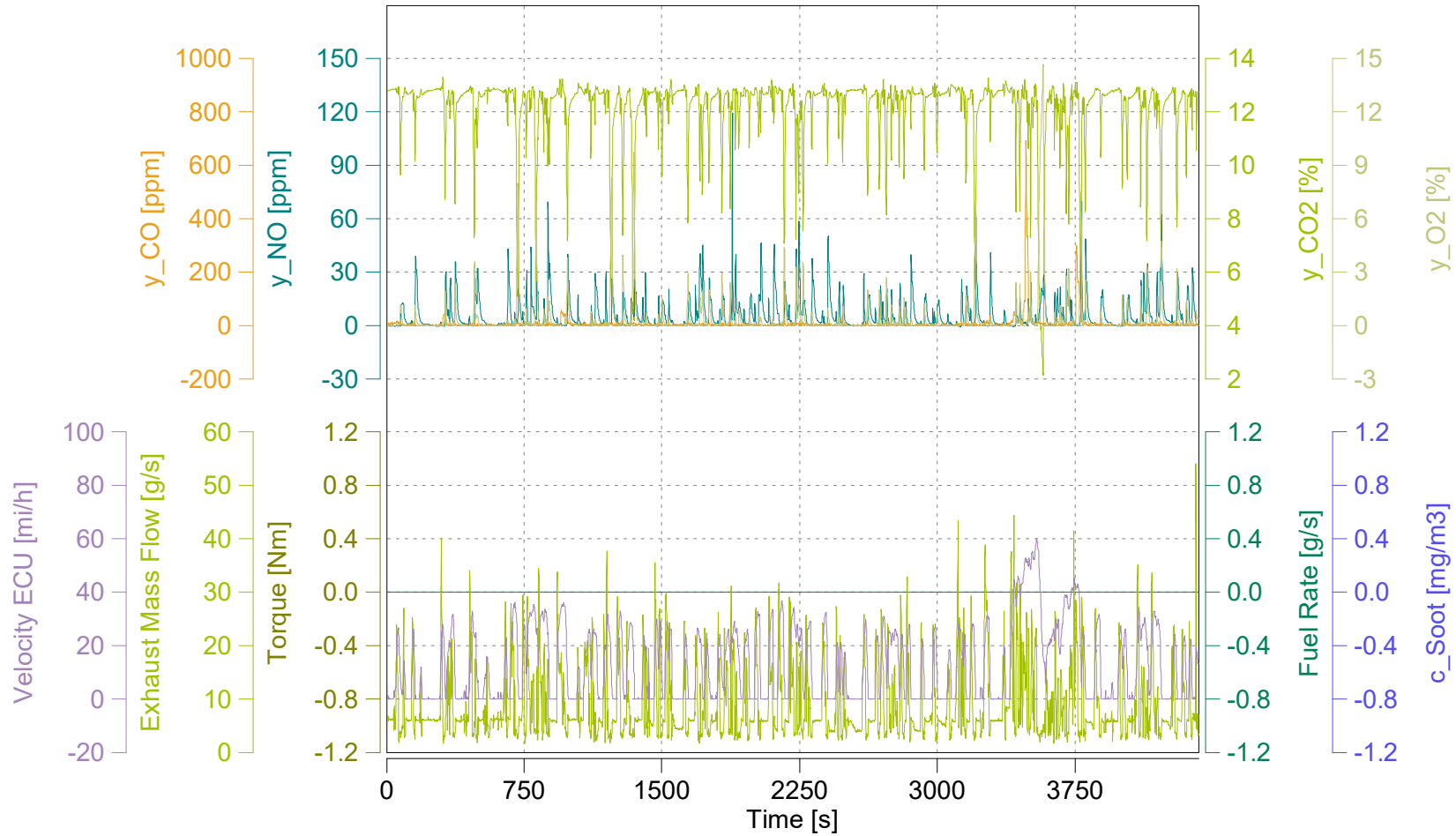
Concerto M.O.V.E., 2019

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

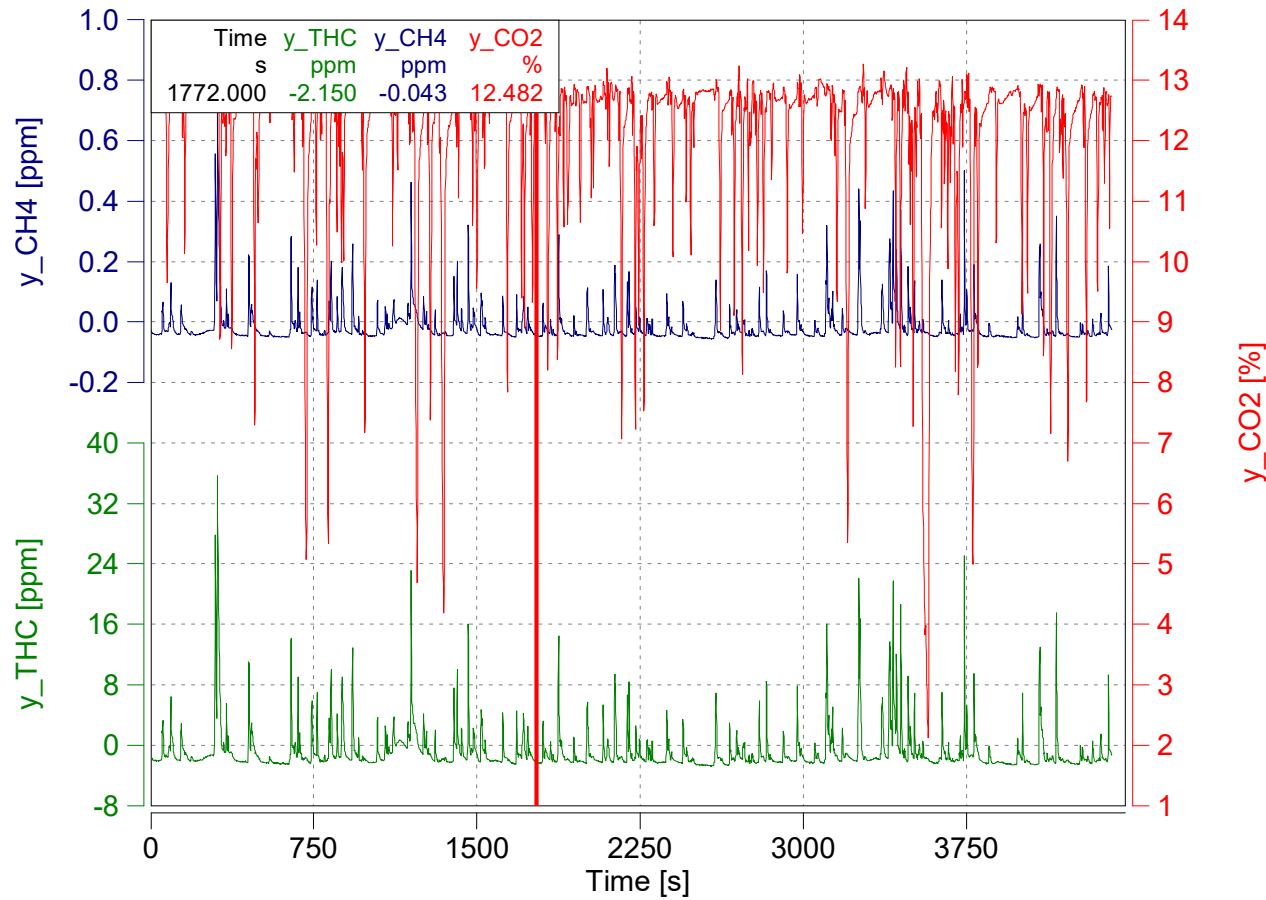
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

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

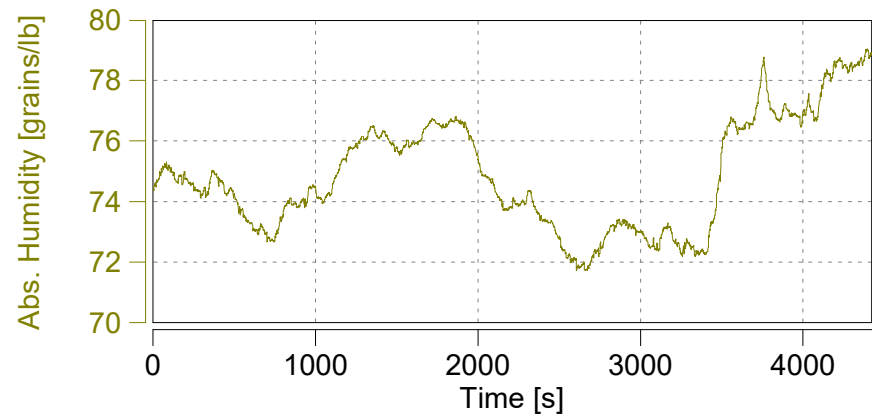
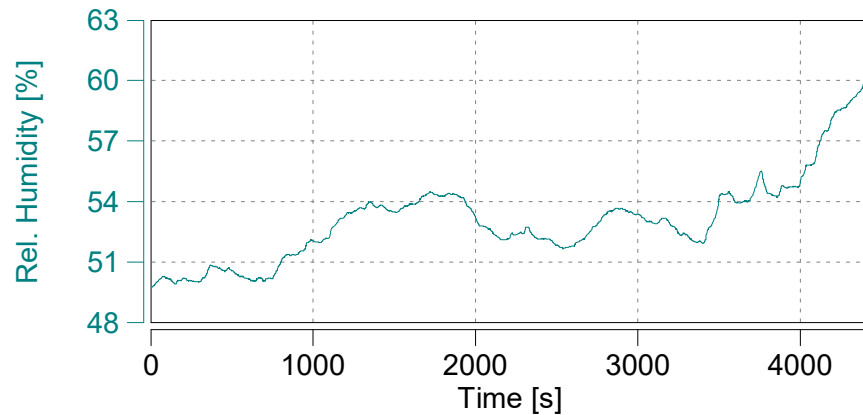
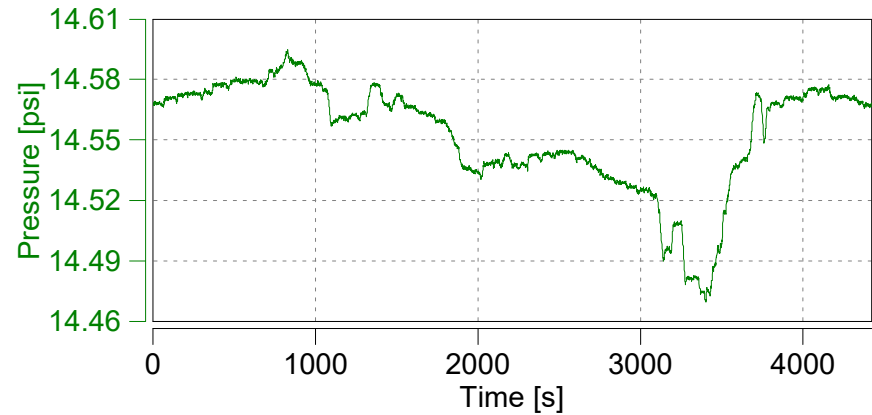
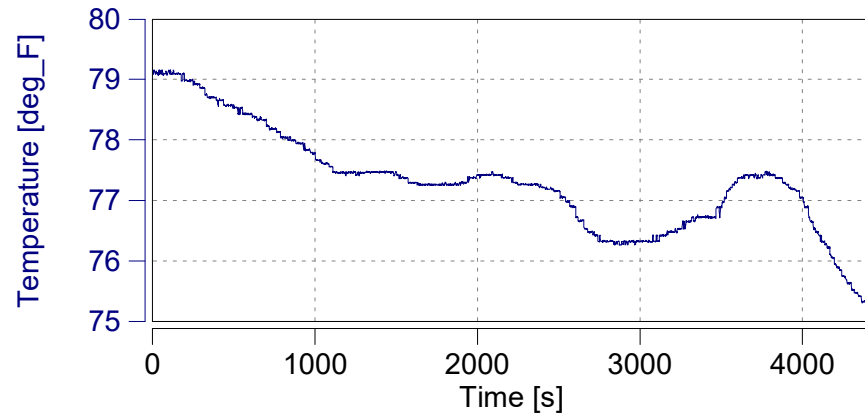
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0

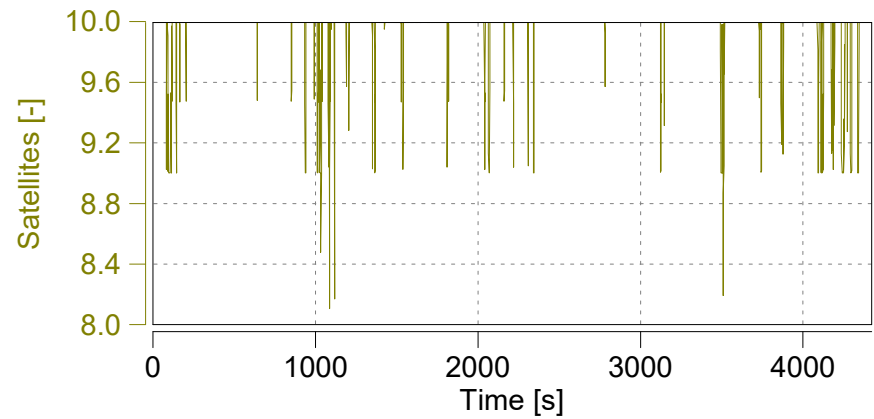
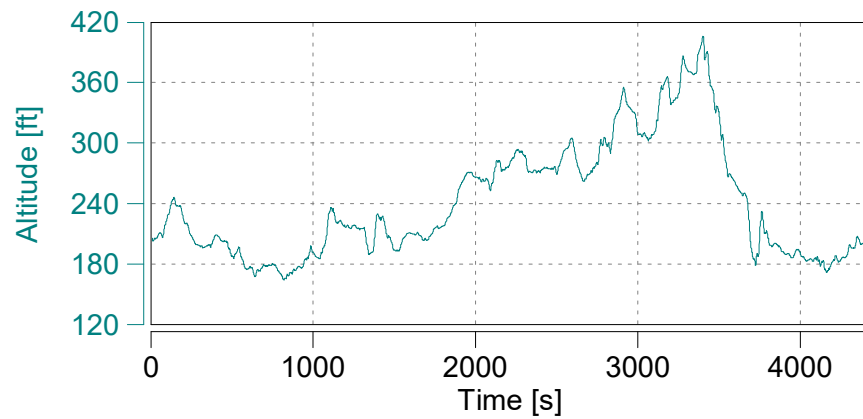
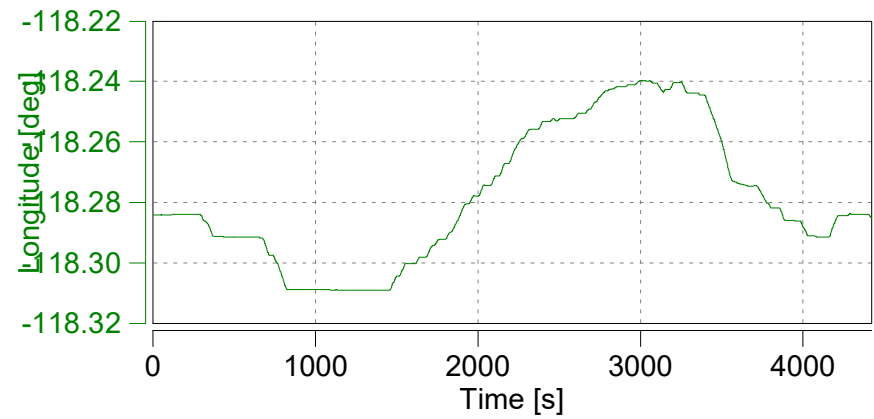
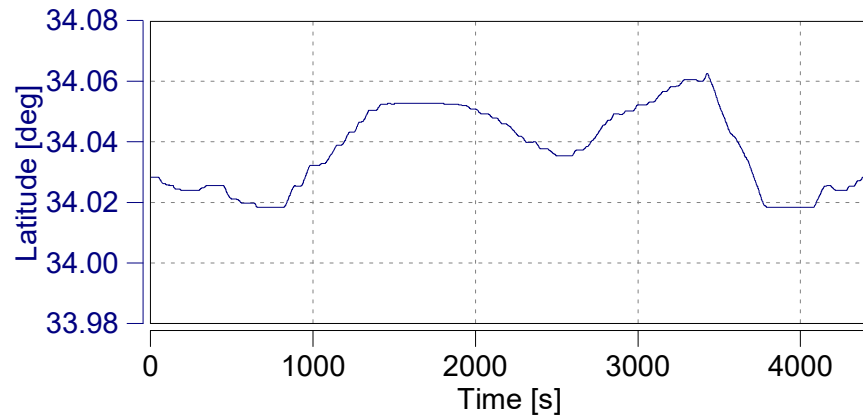


Concerto M.O.V.E., 2019



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)

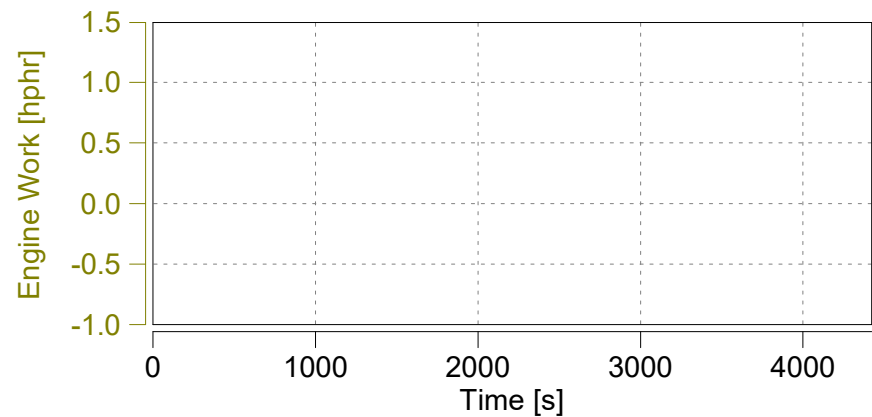
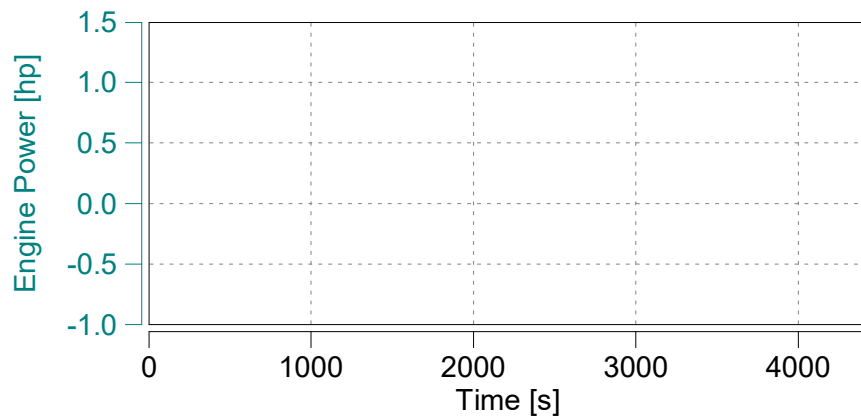
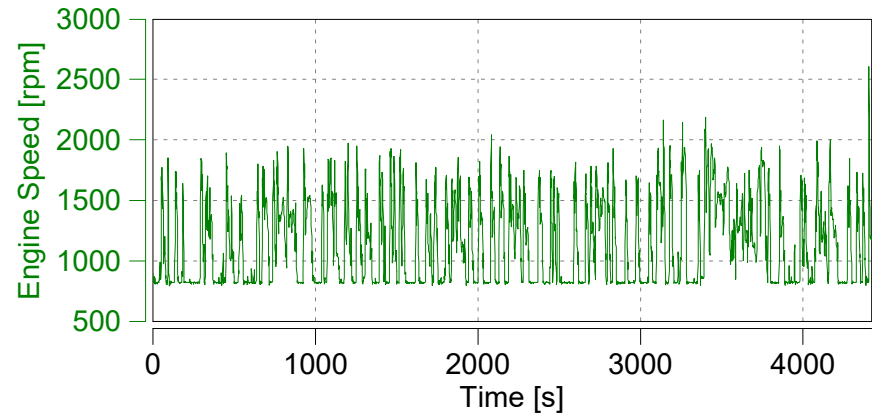
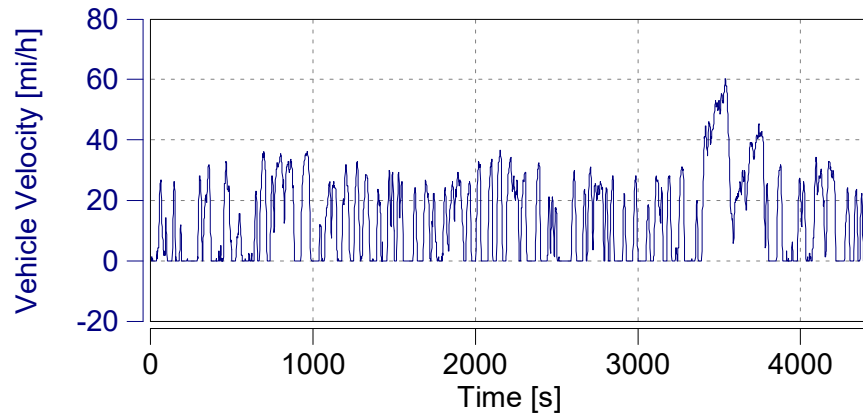
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0

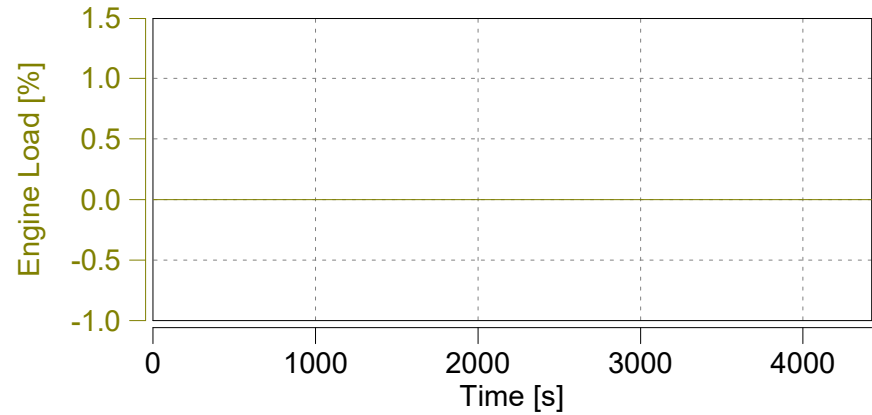
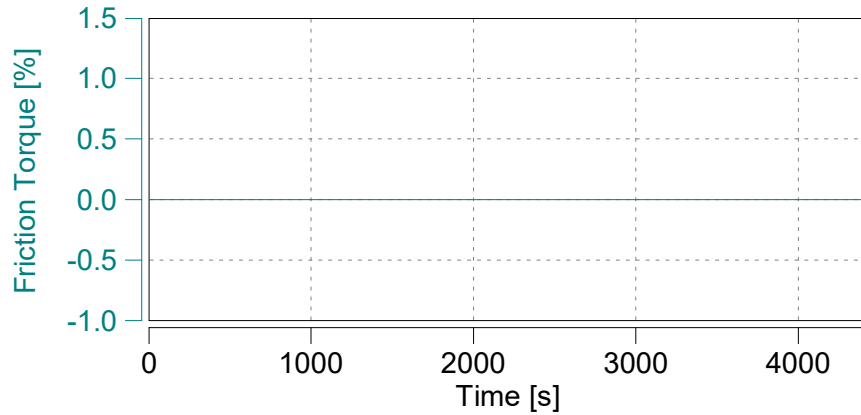
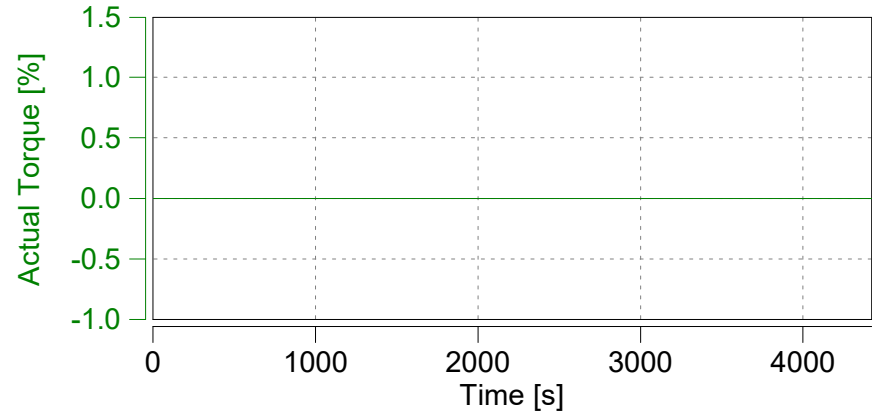
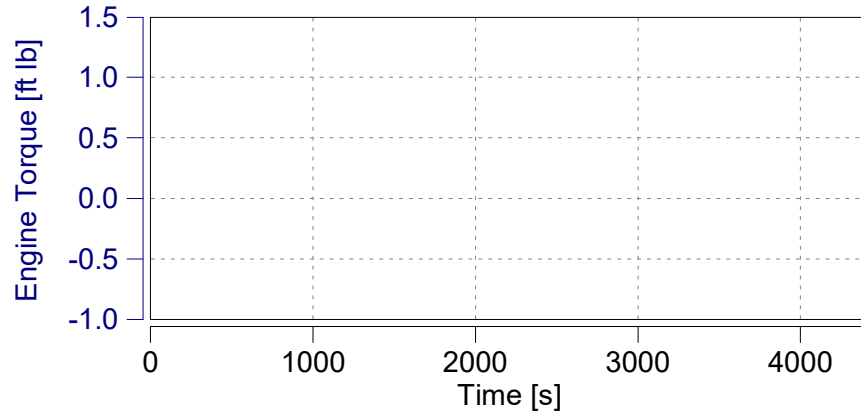


Concerto M.O.V.E., 2019



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)

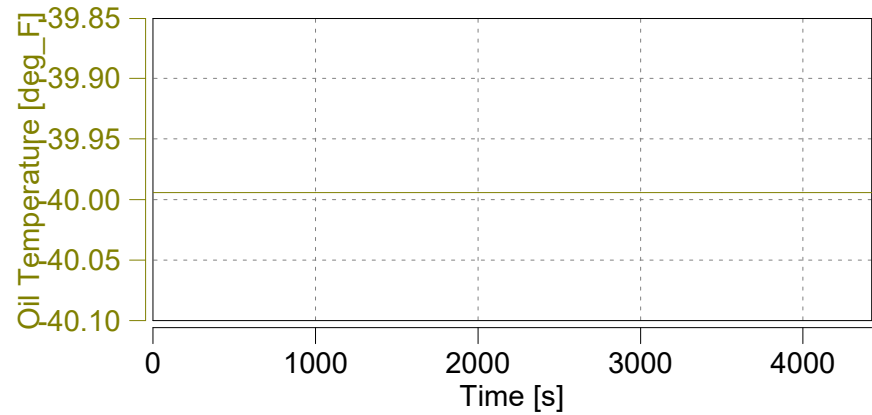
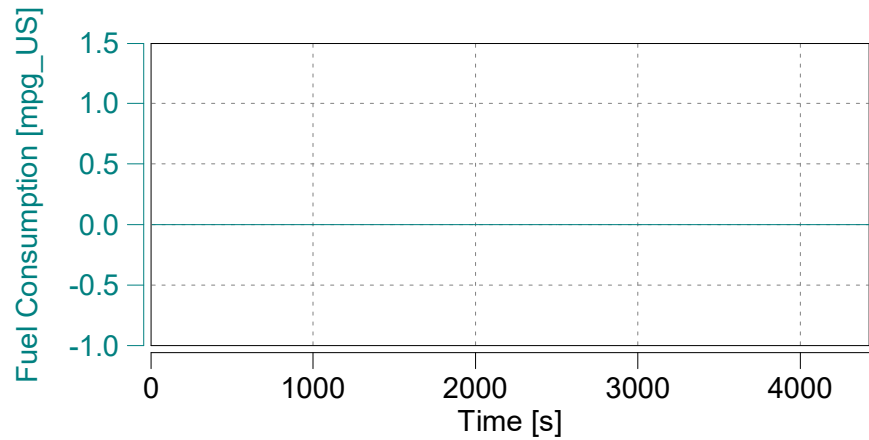
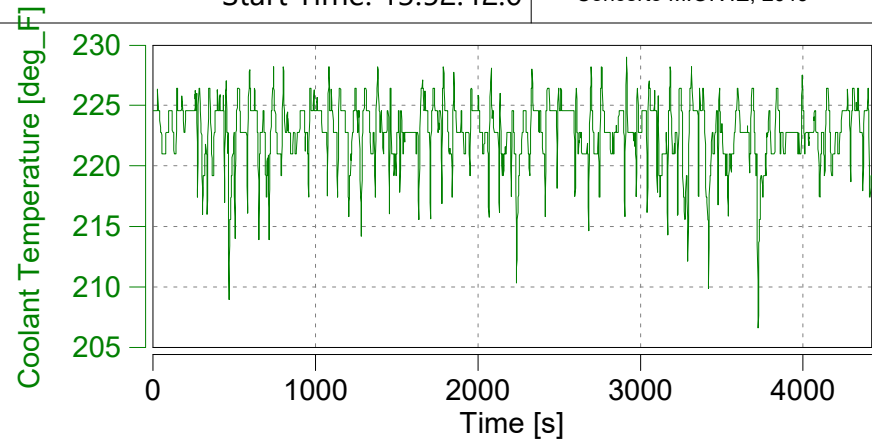
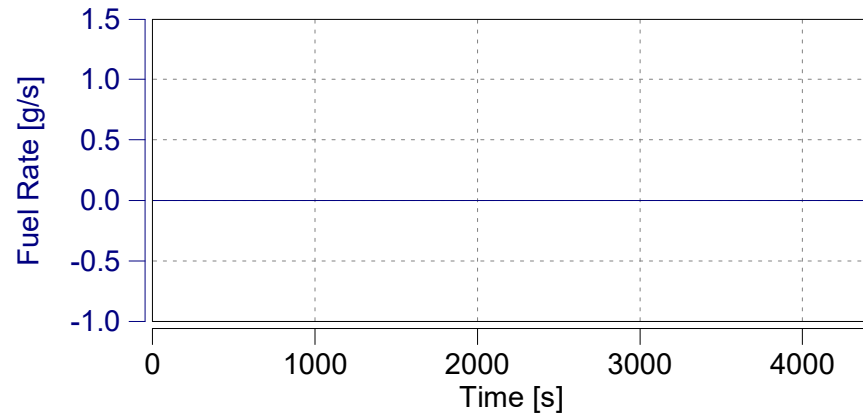
'City'

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
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: Exhaust Flow (1)

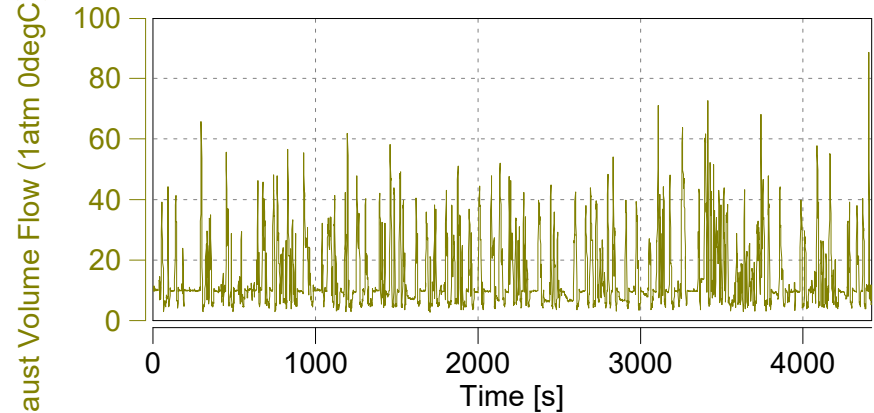
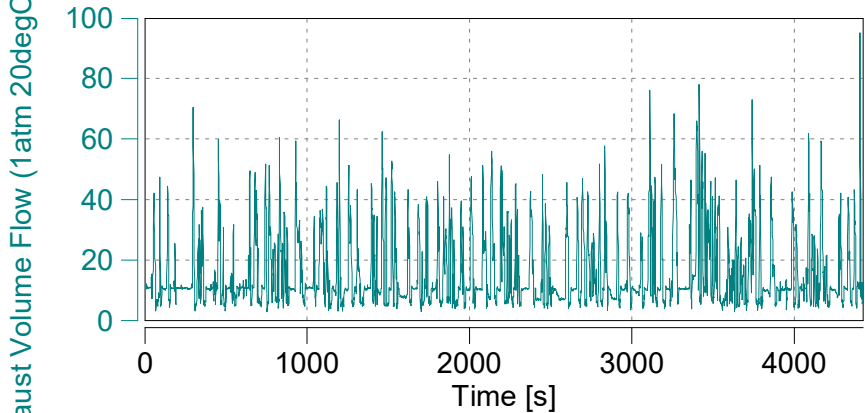
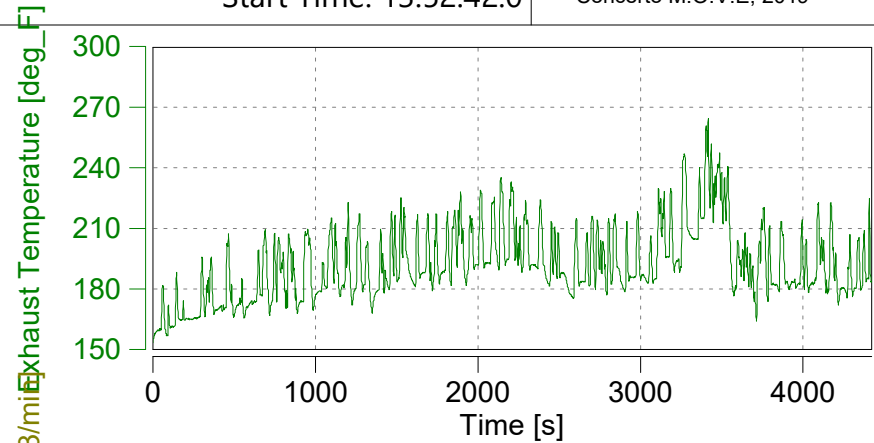
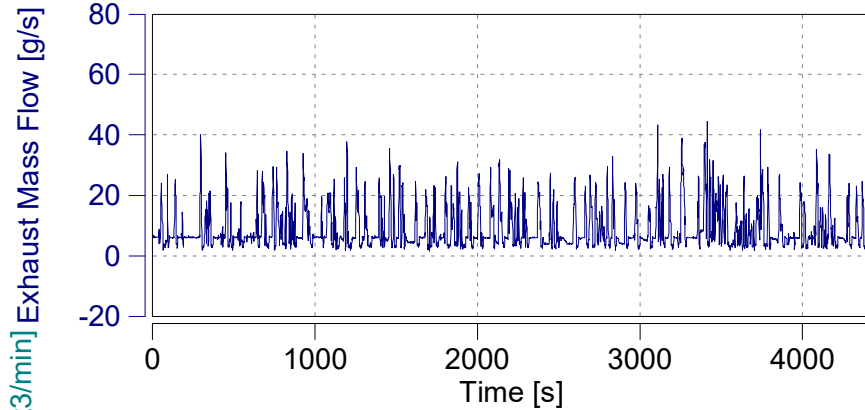
'City'

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

Case: City

Page: Exhaust Flow (2)

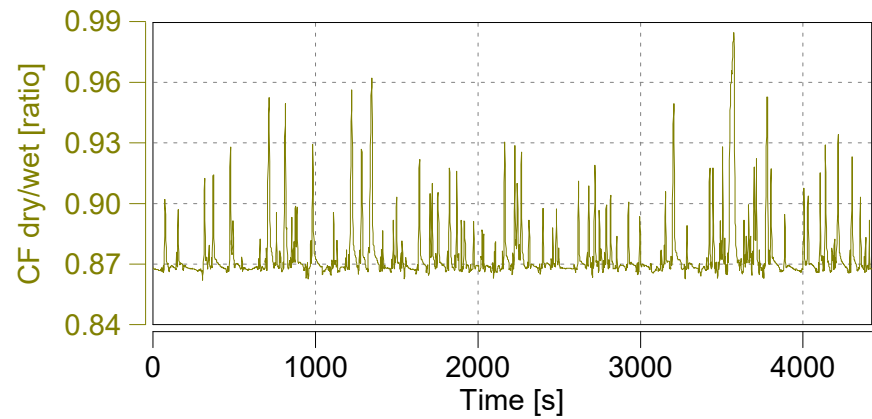
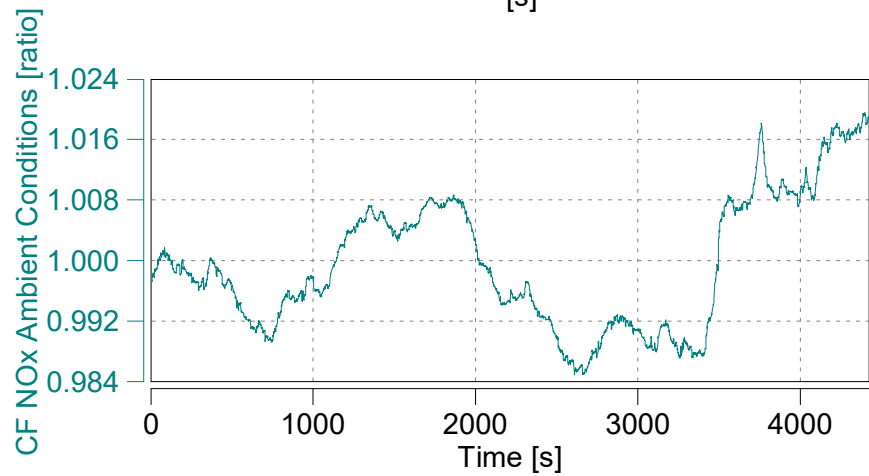
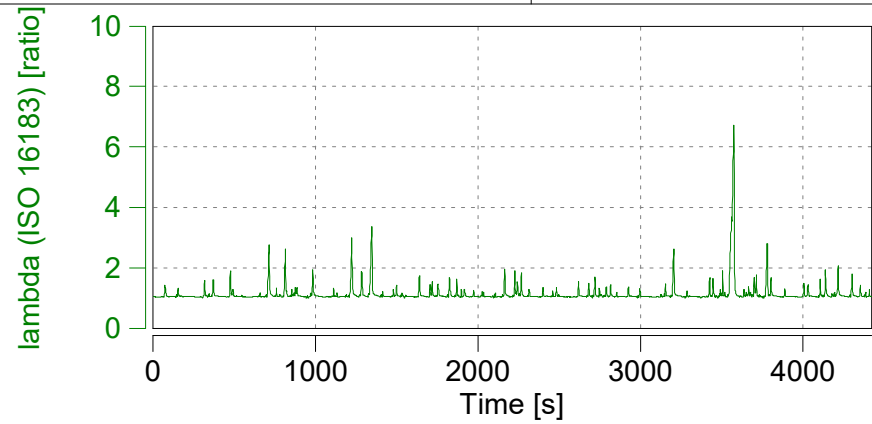
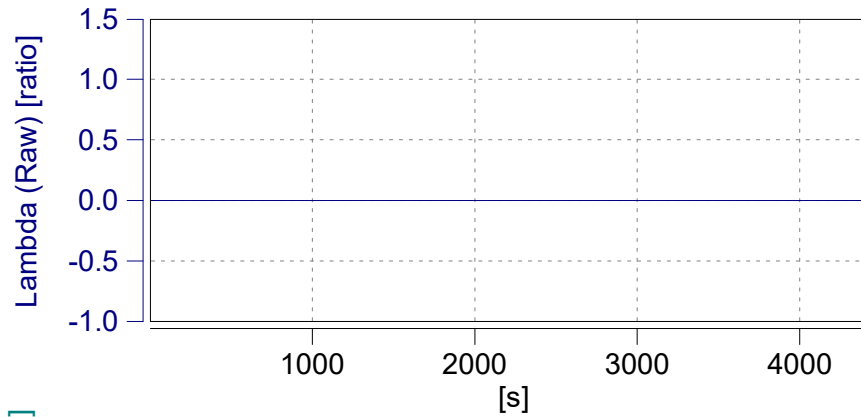
'City'

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

Case: City

Page: Corrected Emissions (1)

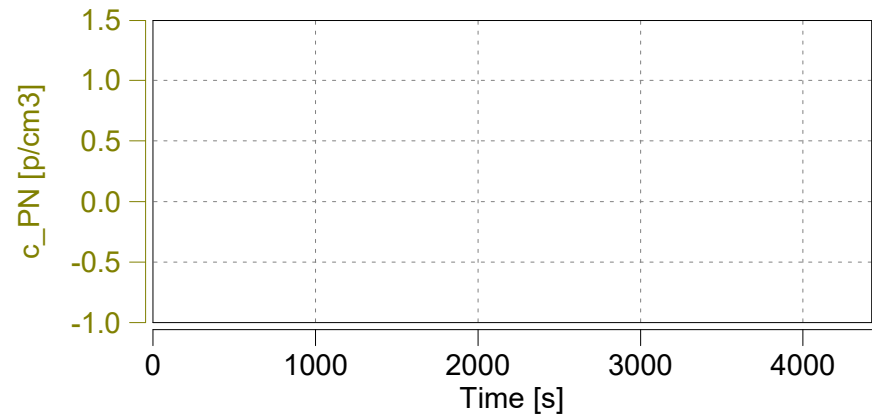
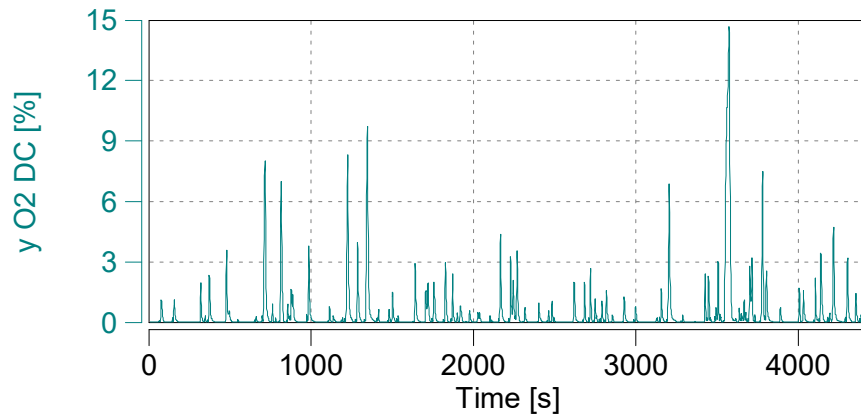
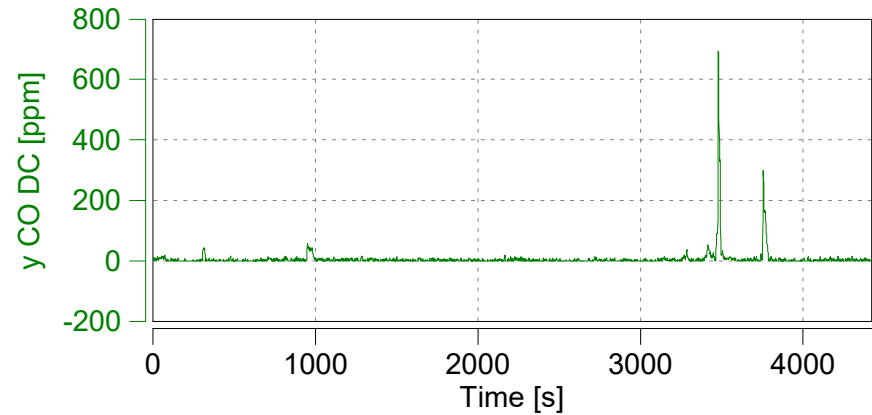
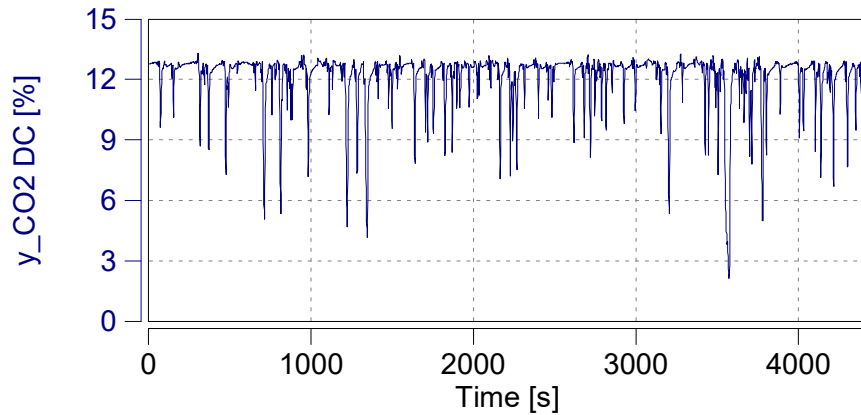
'City'

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)

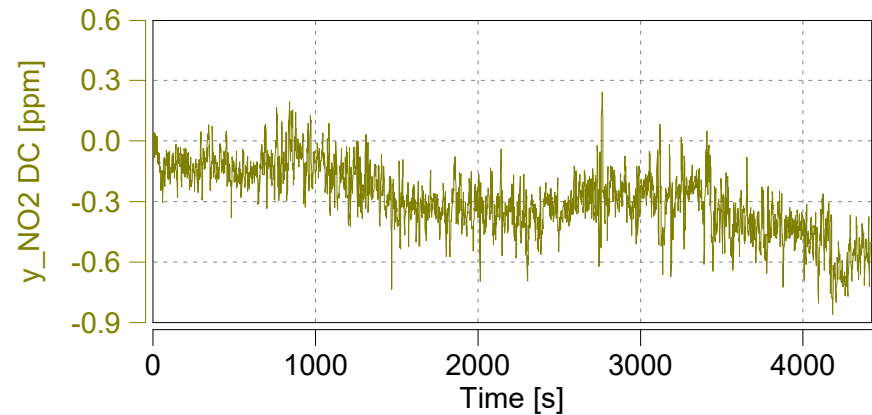
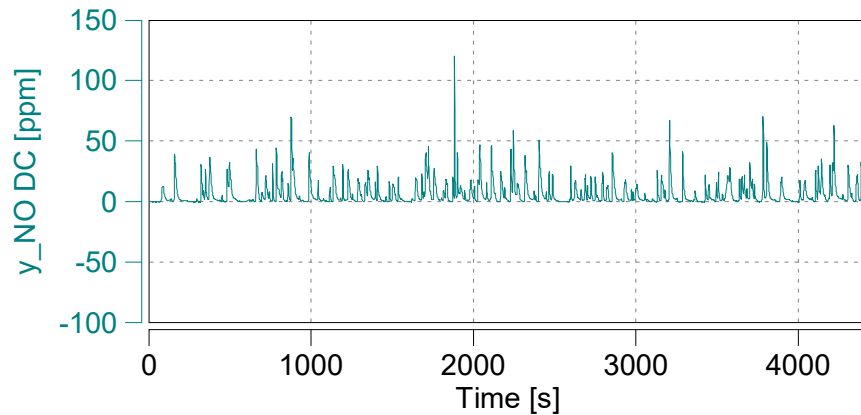
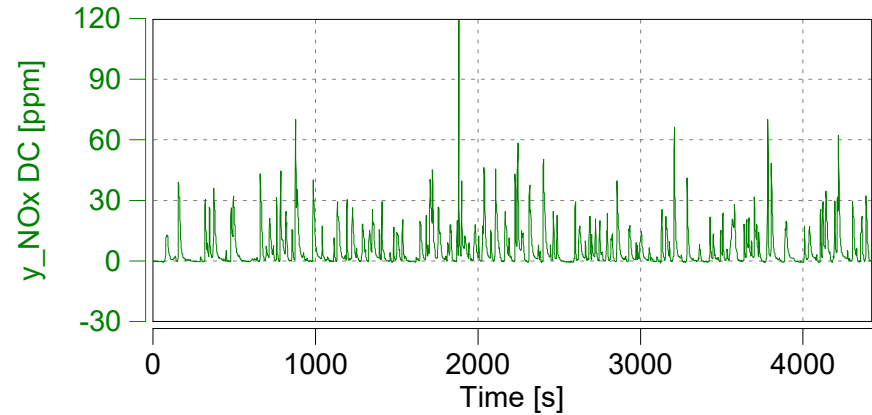
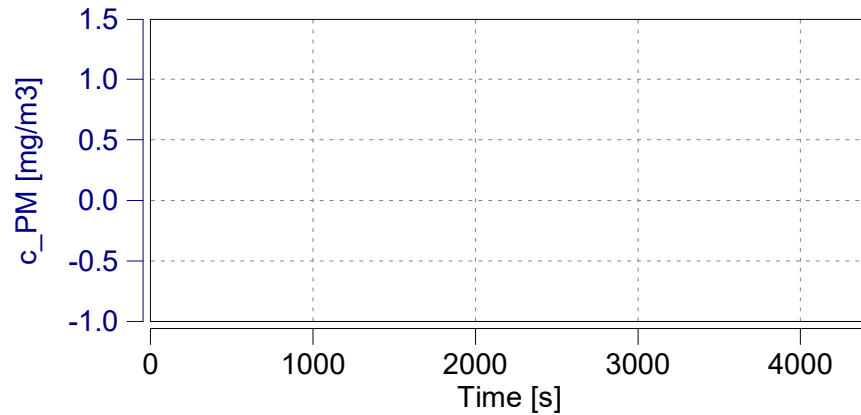
'City'

Start Date: 08/29/2019

Start Time: 13:52:42.0

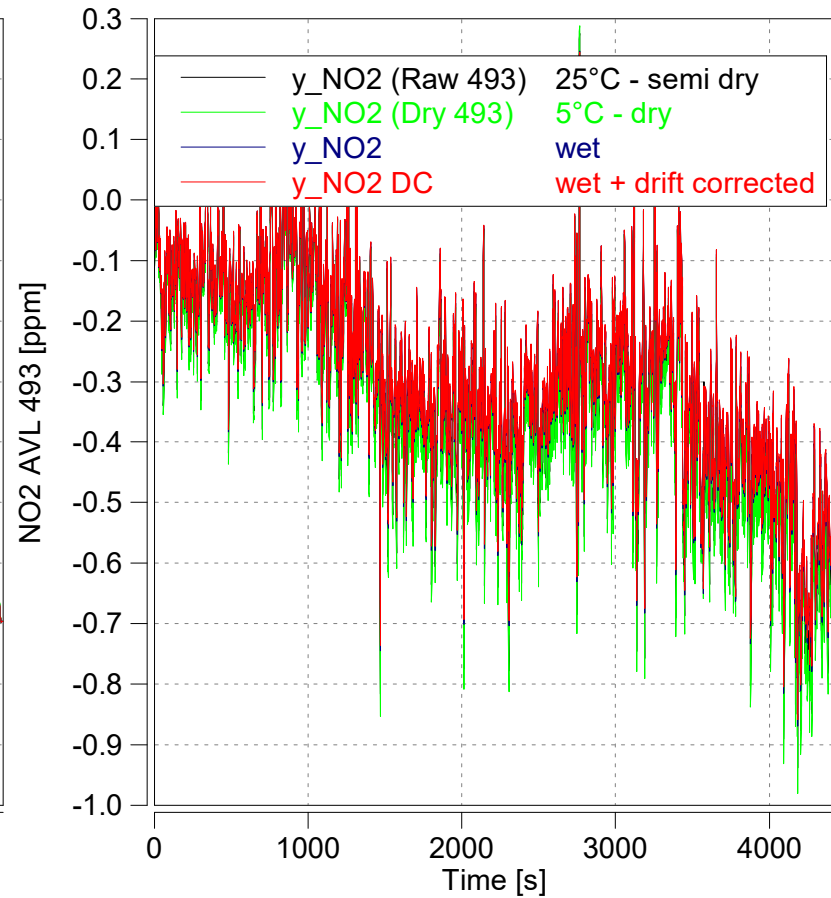
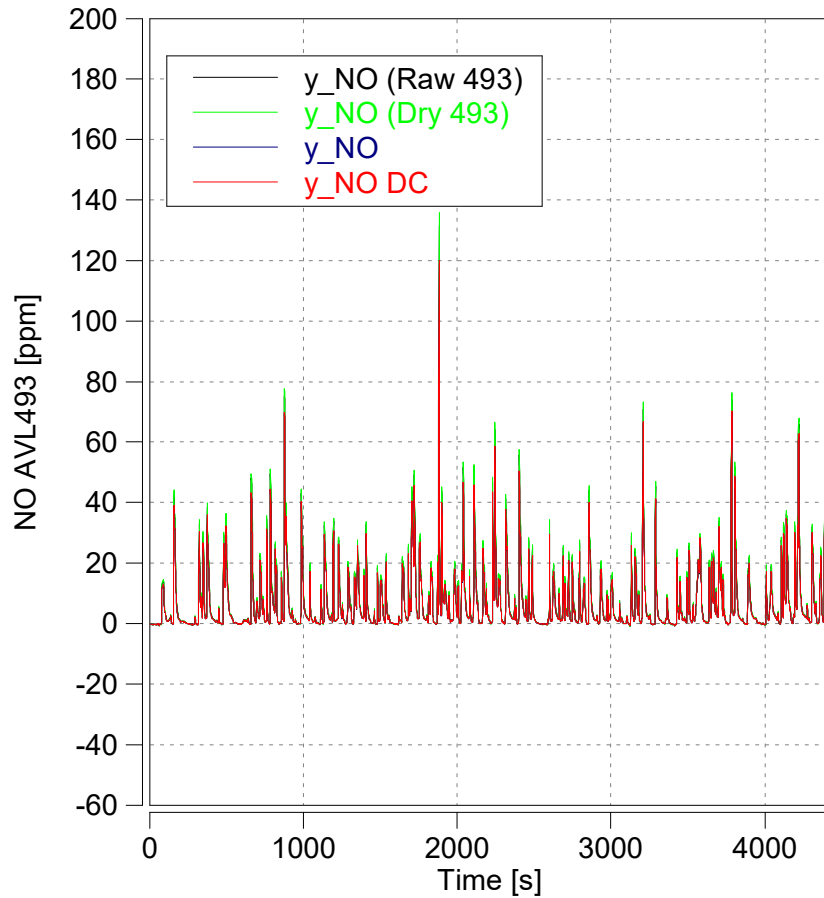


Concerto M.O.V.E., 2019



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:

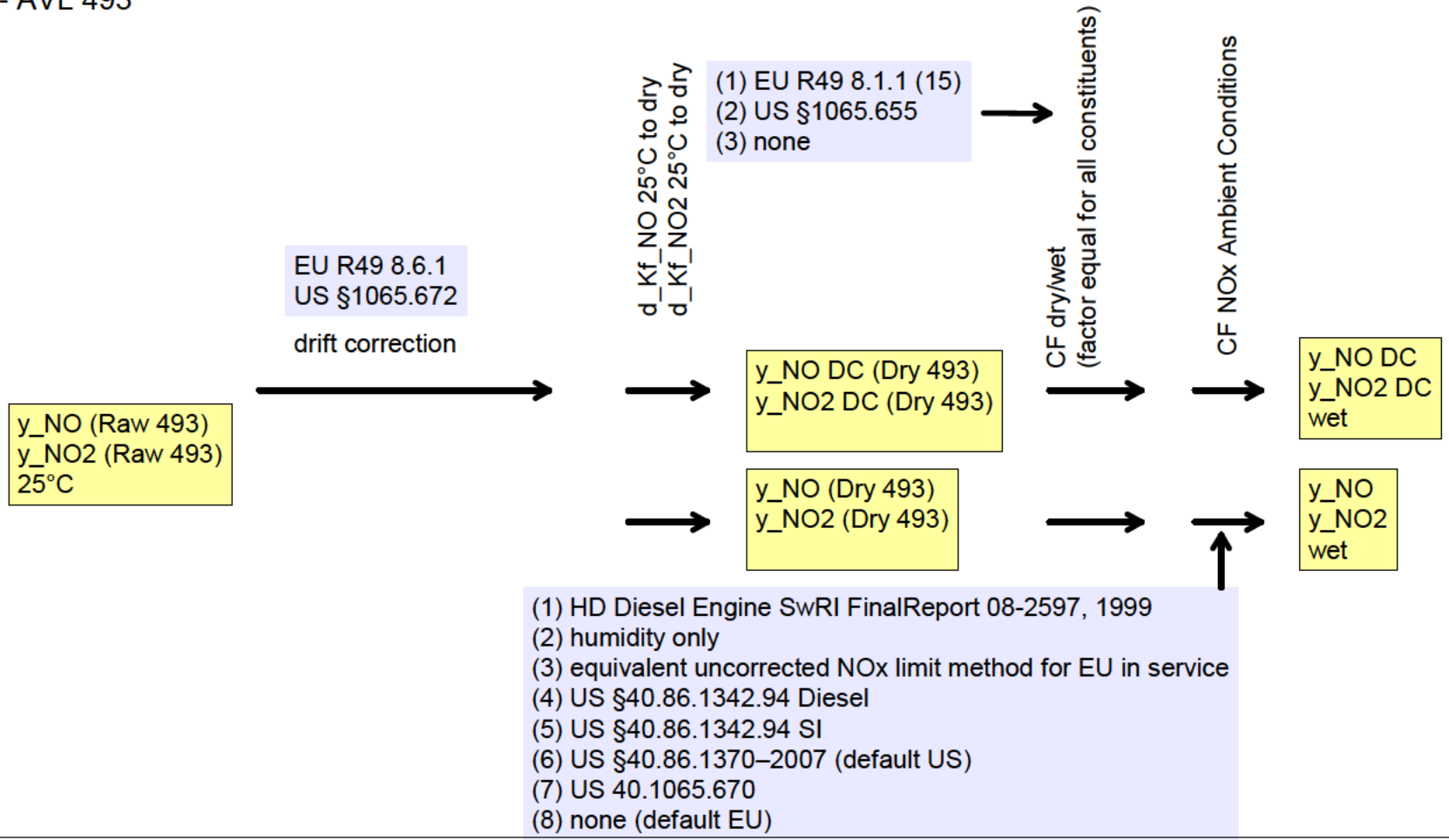
Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

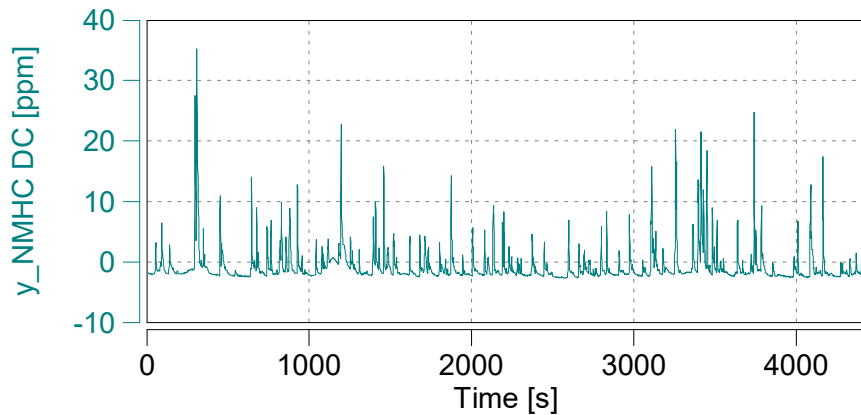
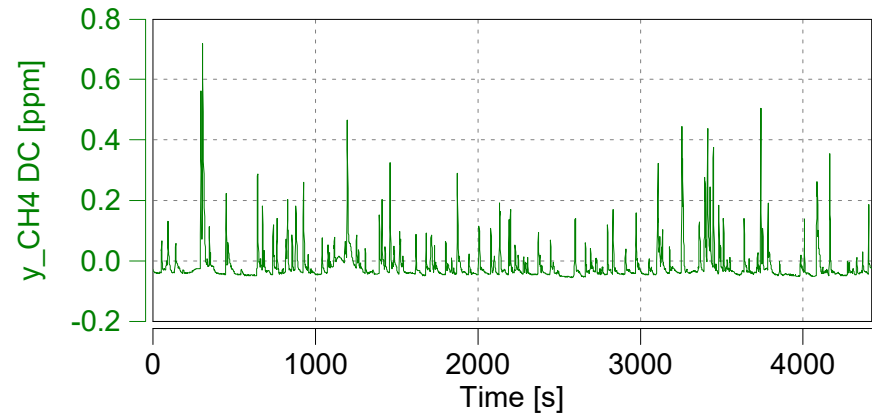
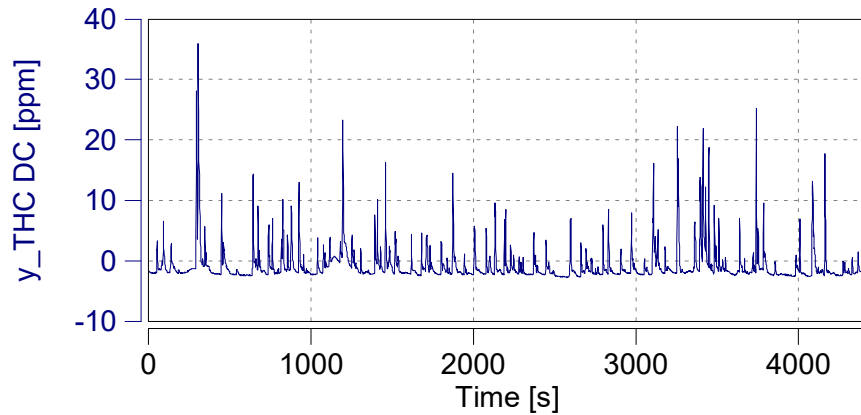


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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

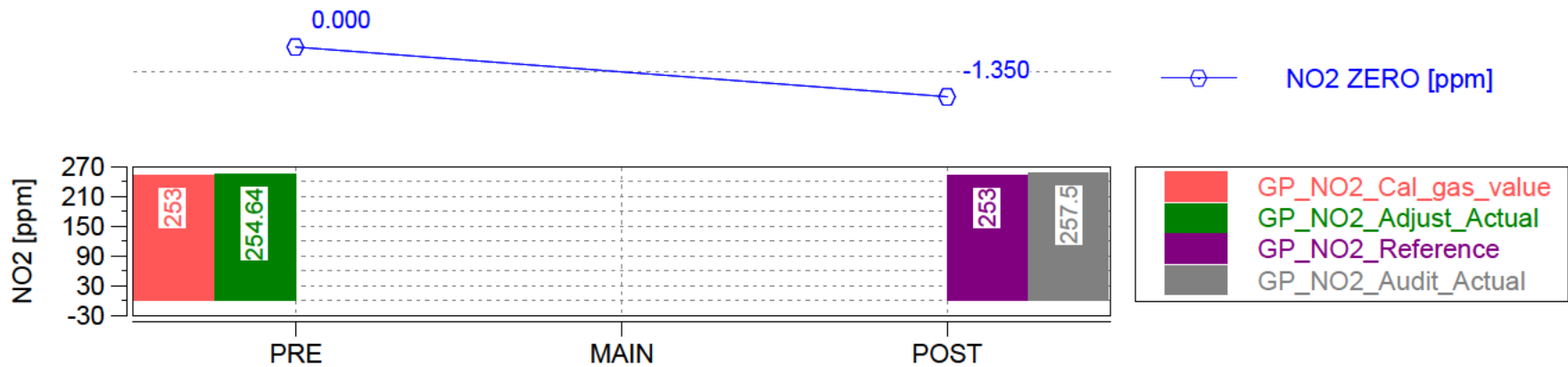
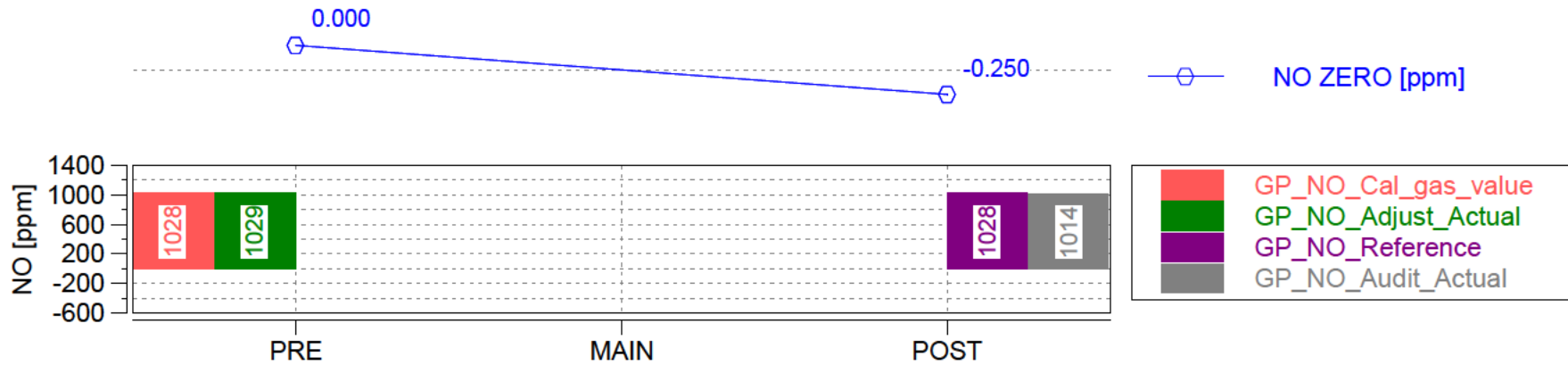
NOx - AVL 493





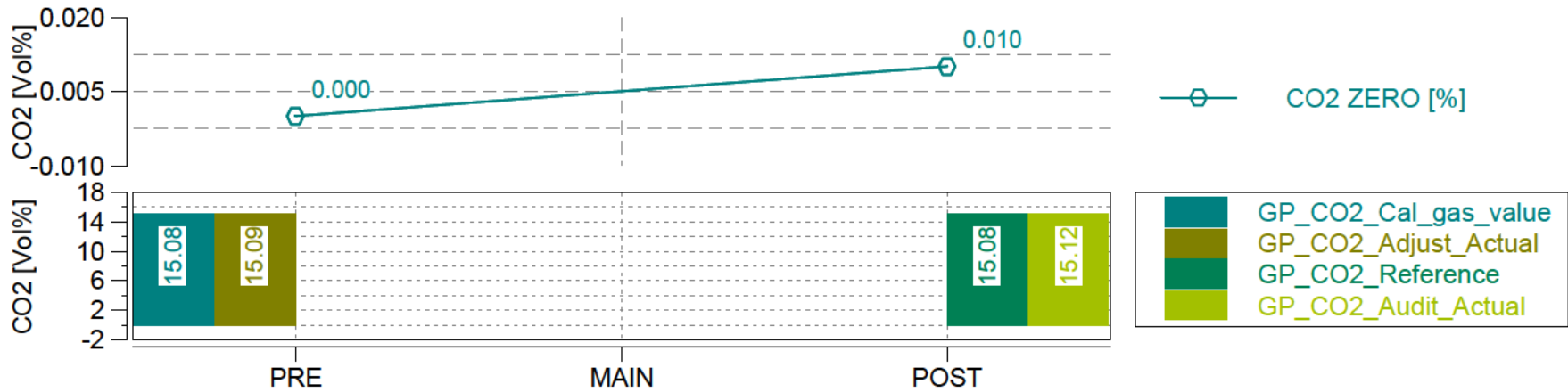
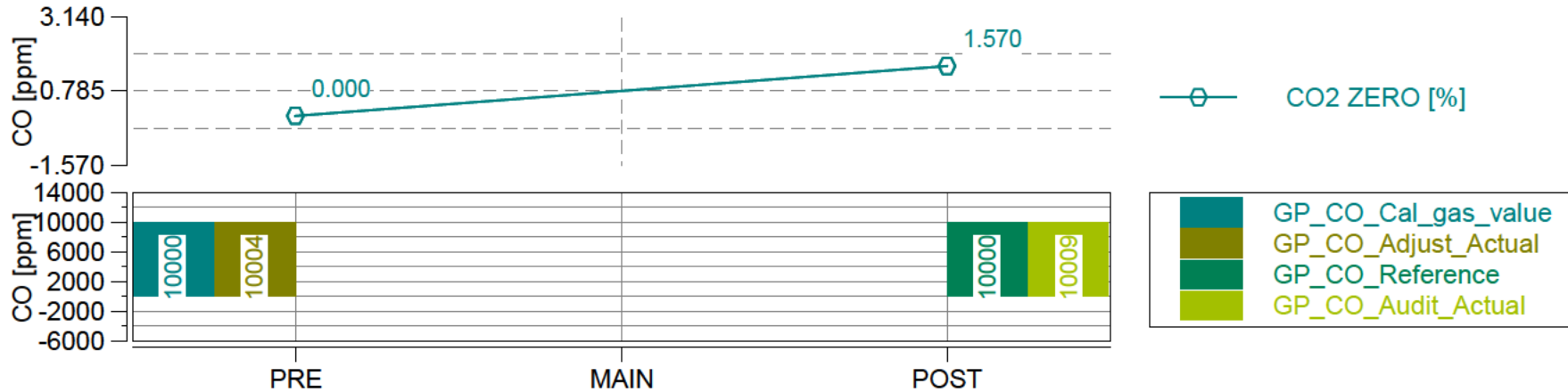
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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: City

Page: THC/CH4 Zero - Span

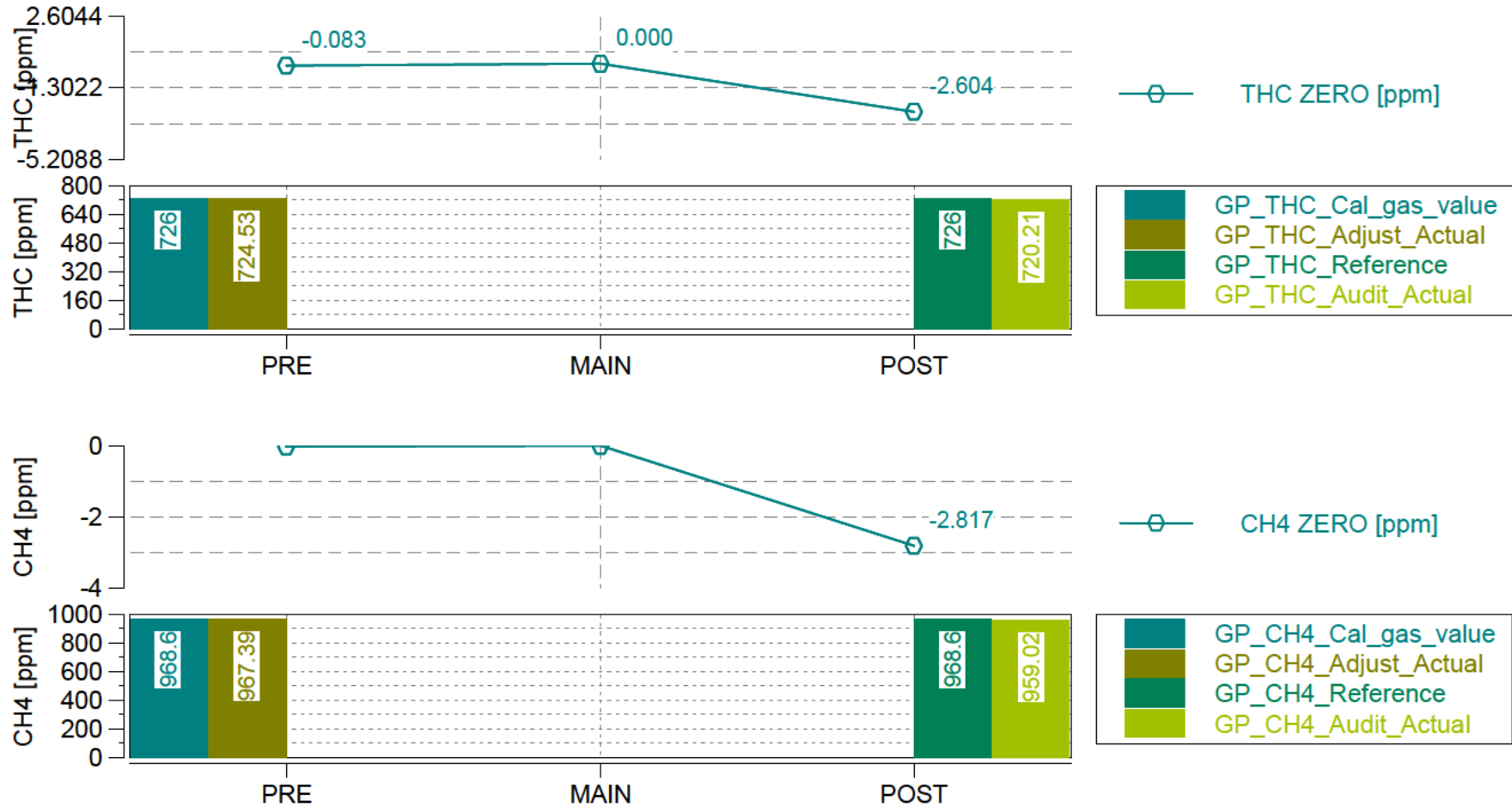
'City'

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



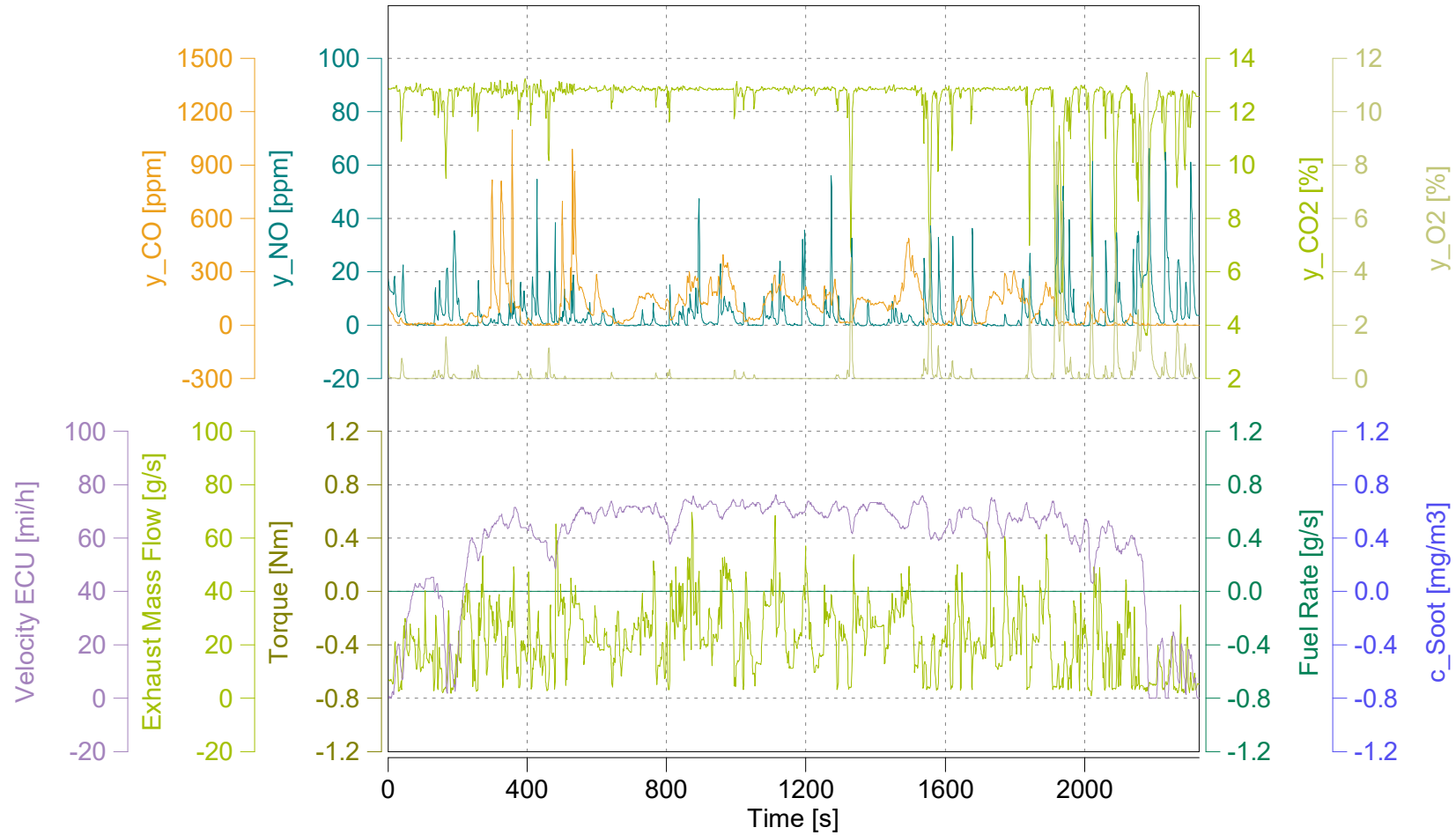
Concerto M.O.V.E., 2019

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

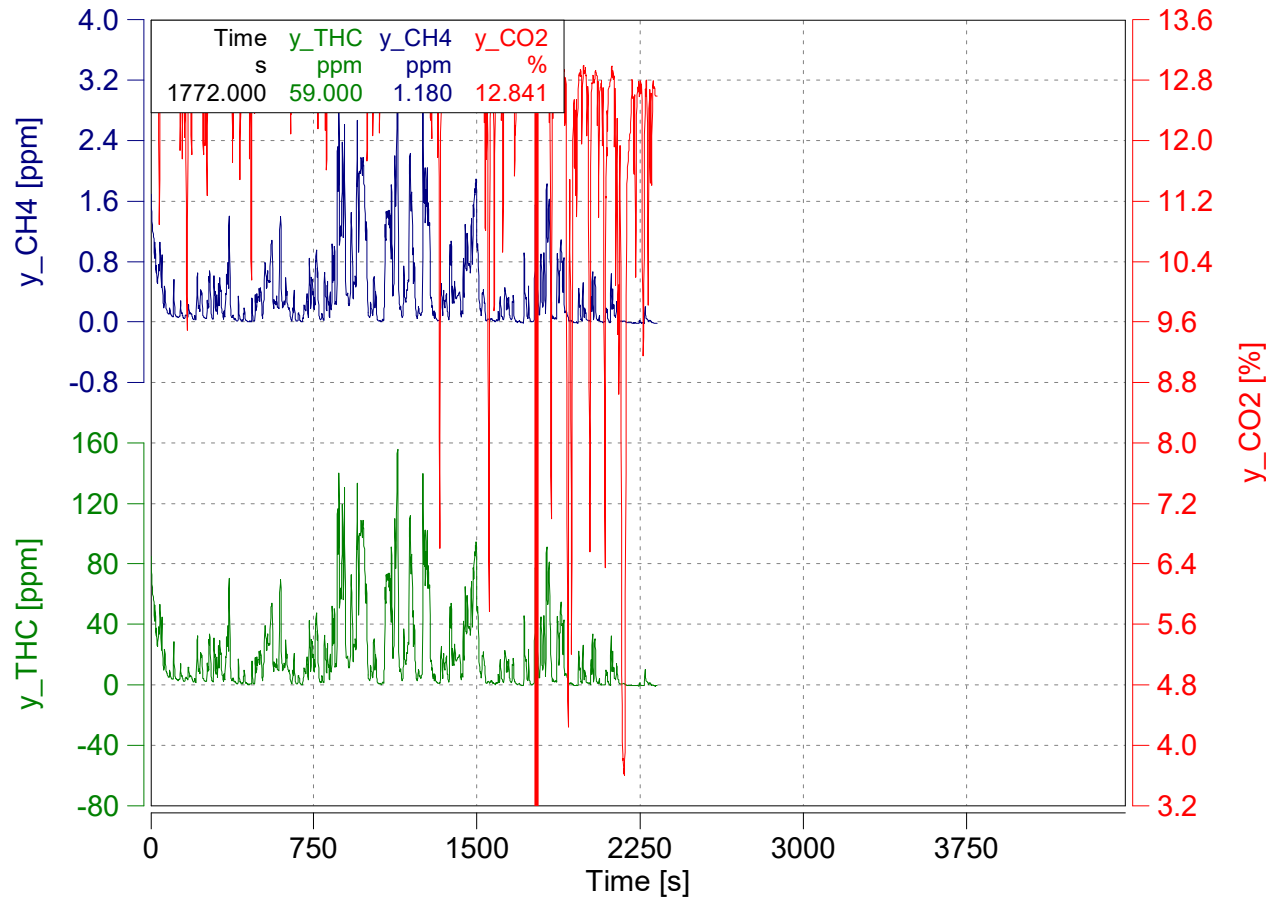
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

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

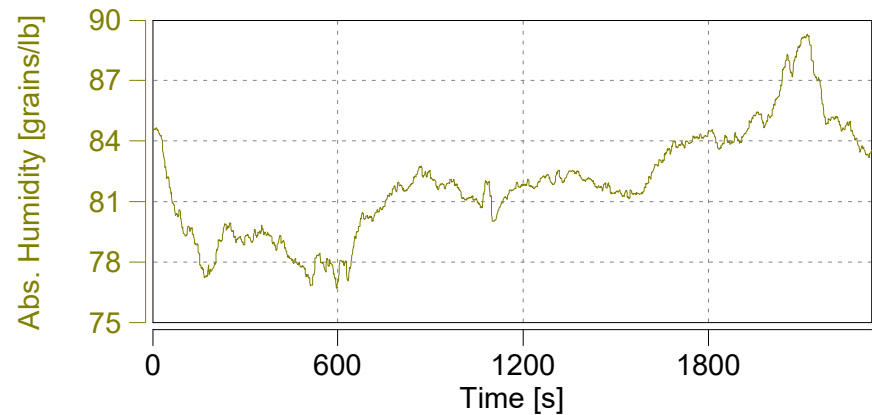
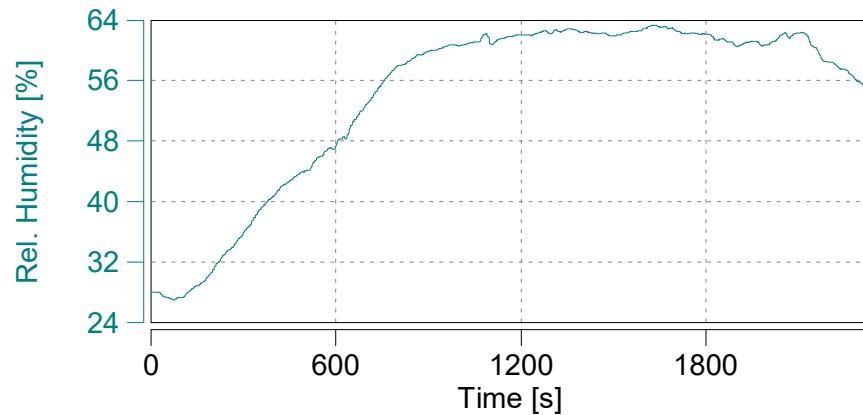
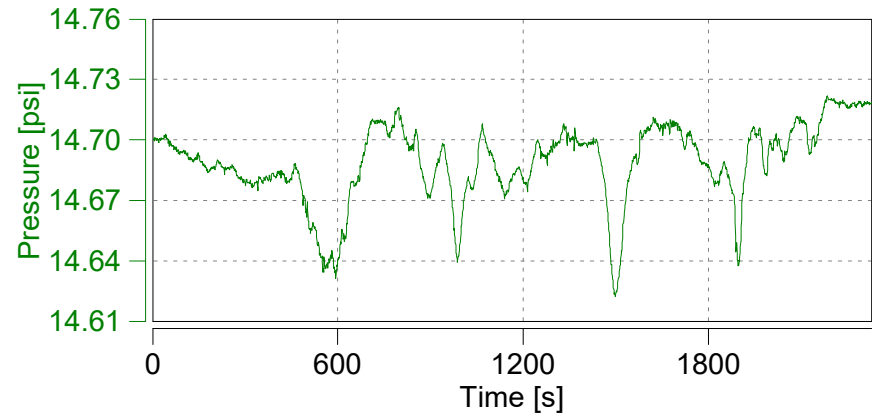
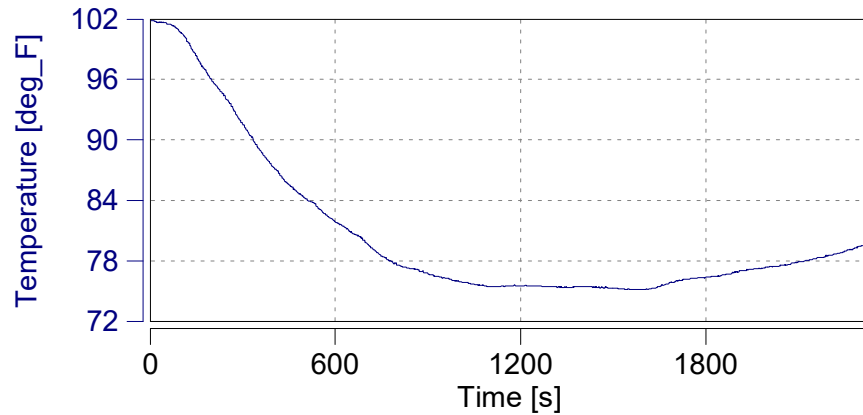
y_THC	s	-4.3
y_CH4	s	-6.3

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



Concerto Version: 480 Build 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

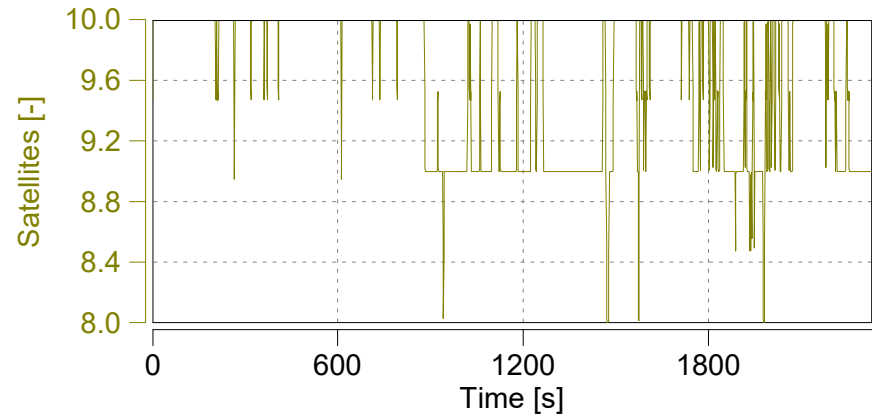
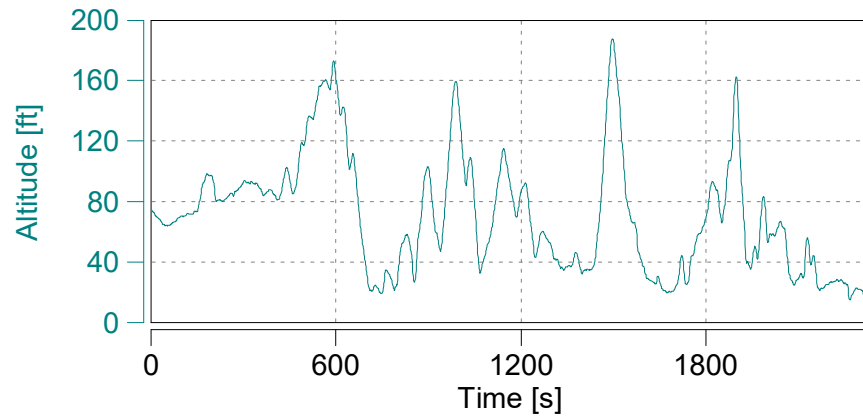
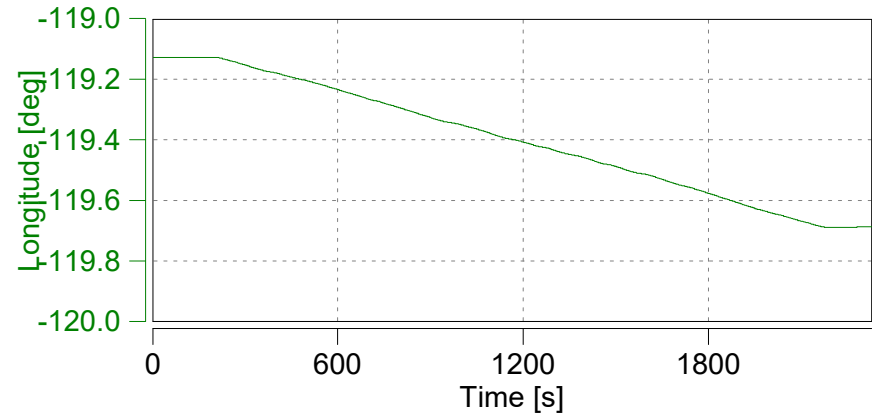
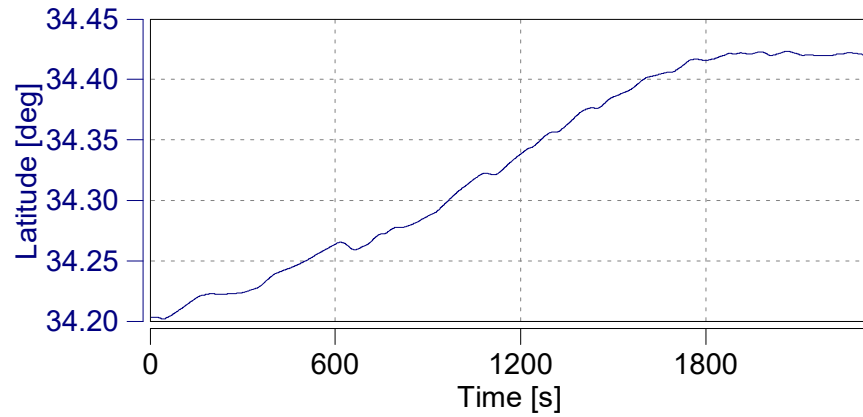
'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0

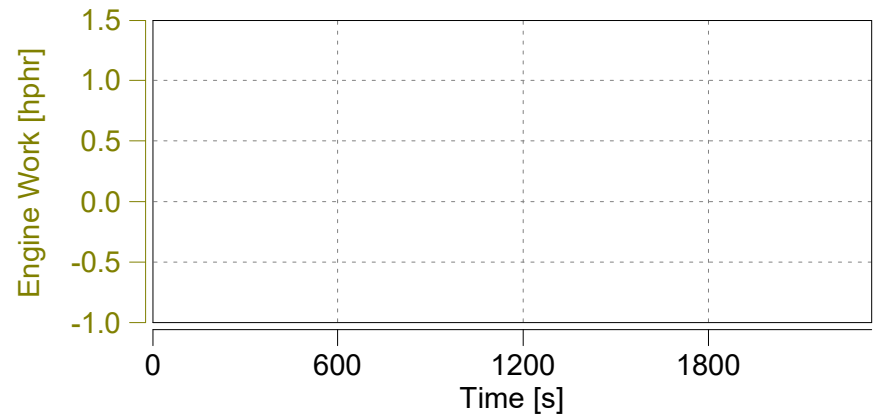
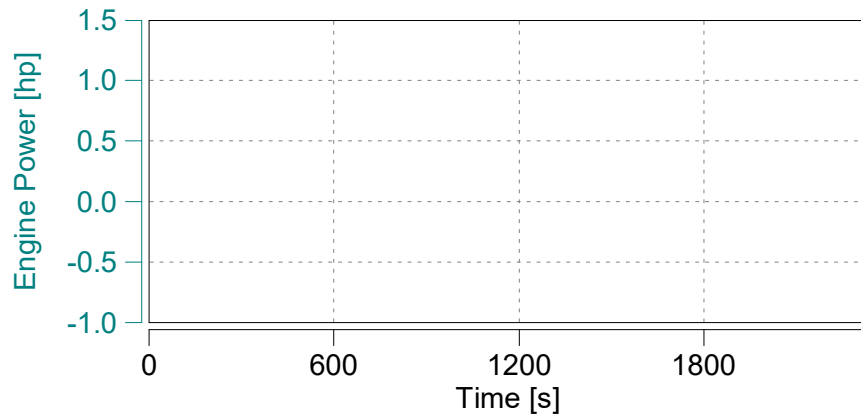
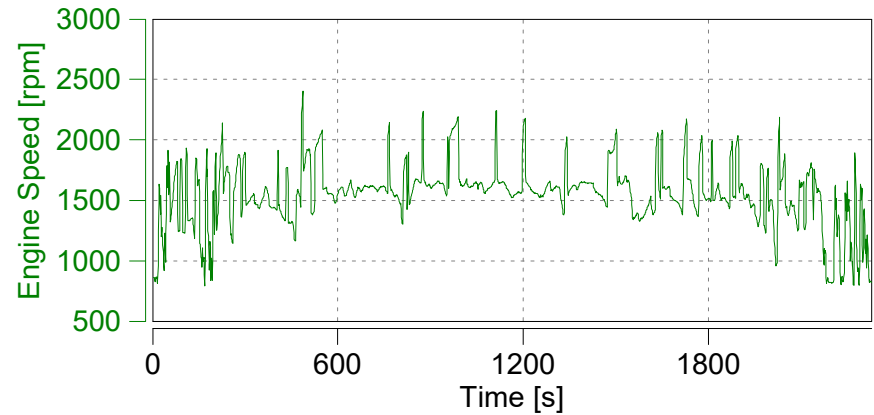
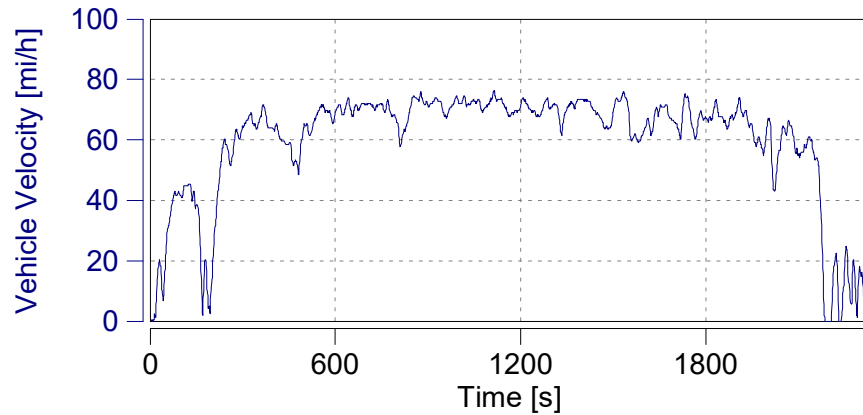


Concerto M.O.V.E., 2019



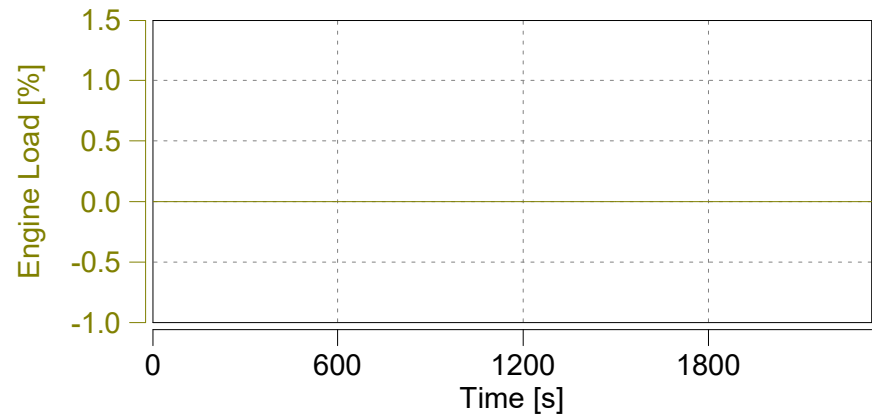
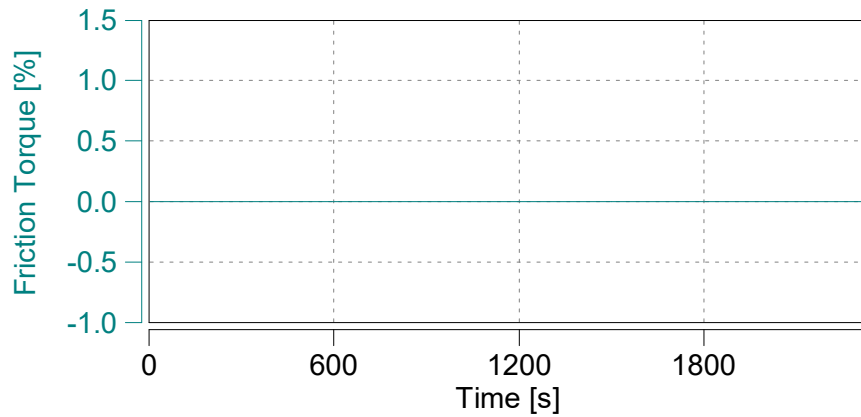
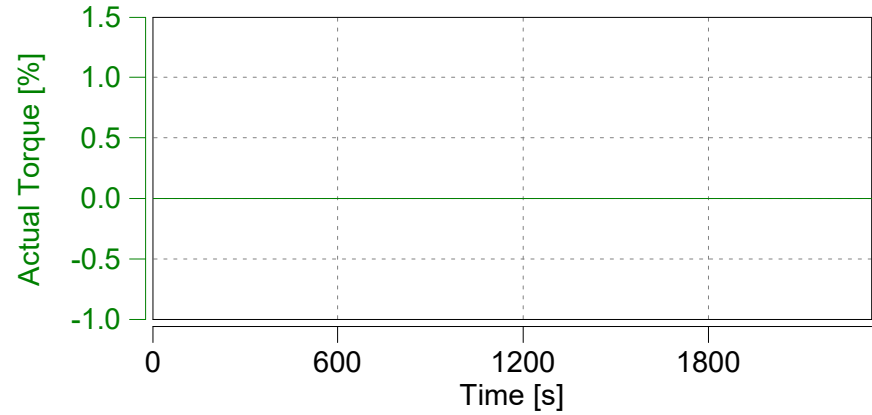
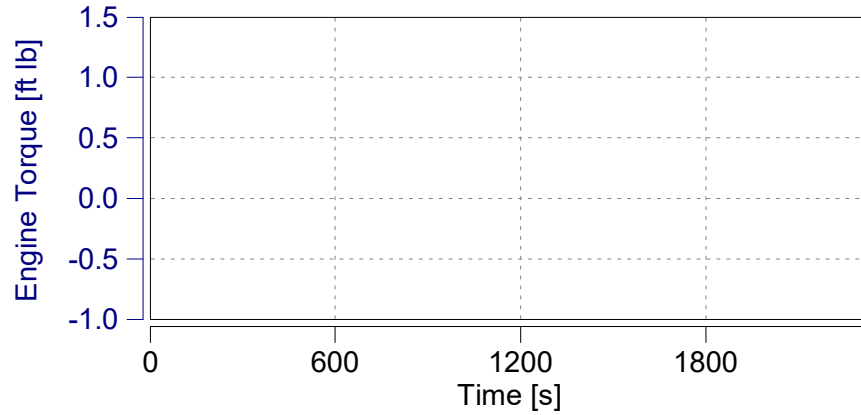
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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



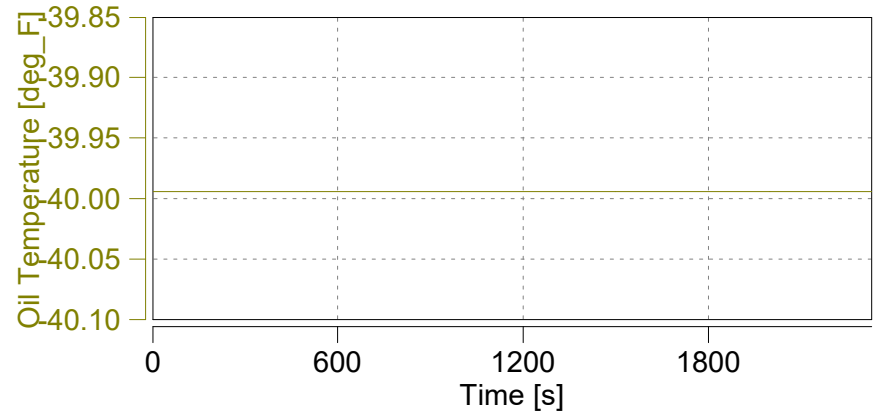
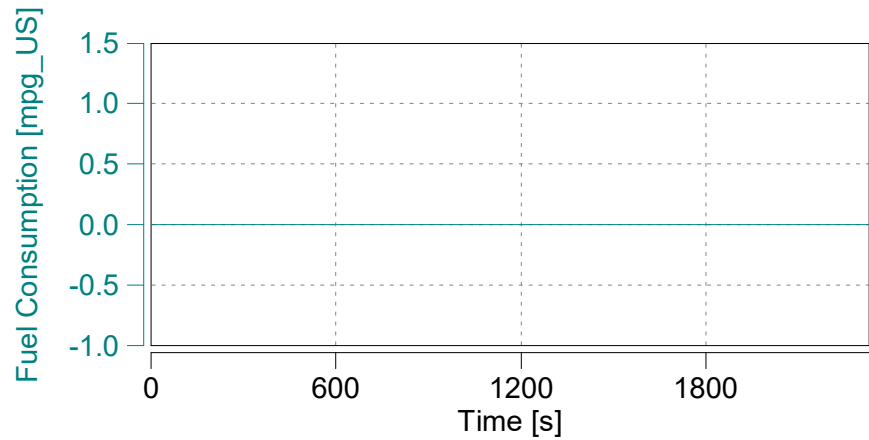
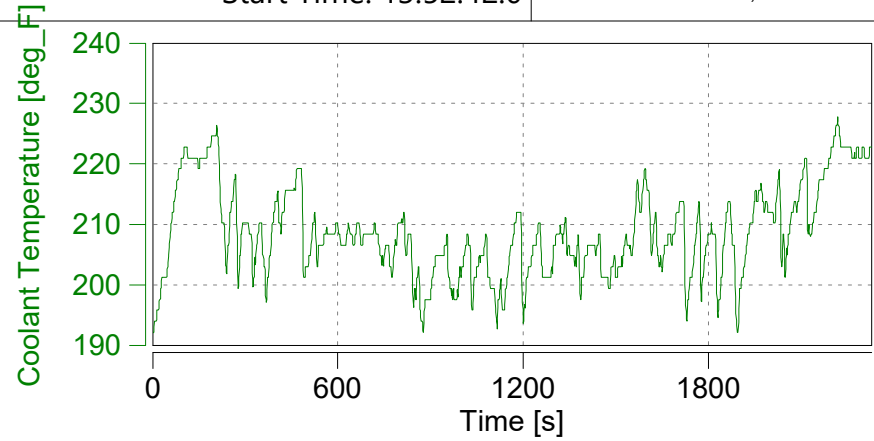
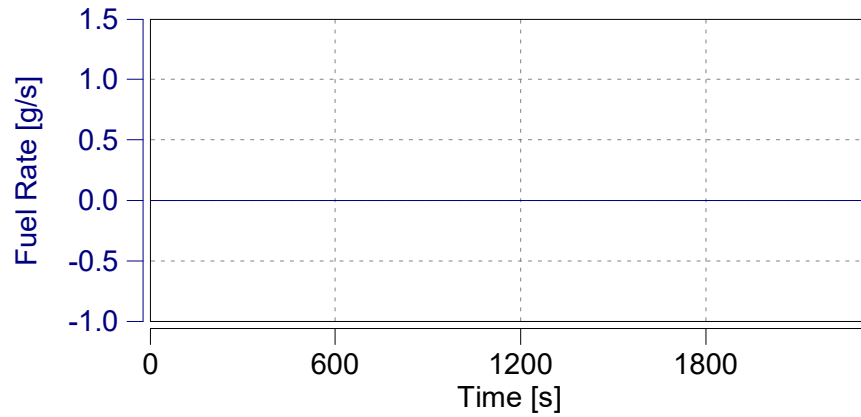
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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)

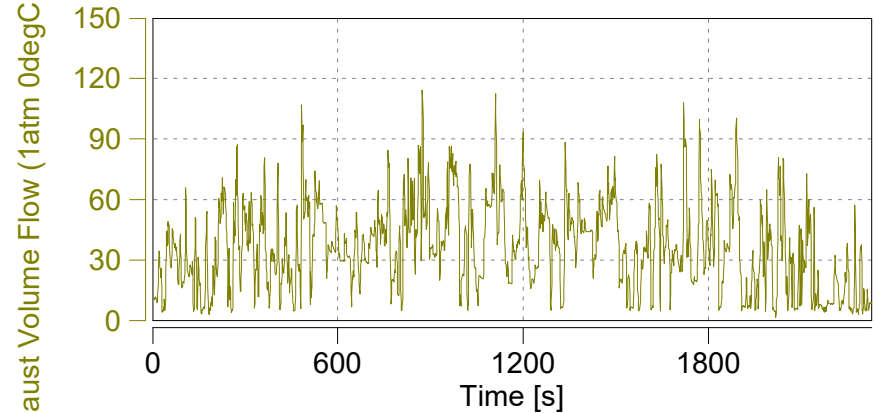
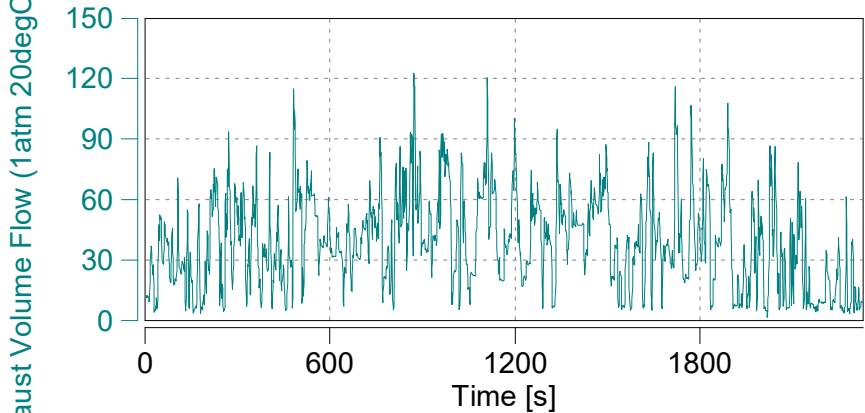
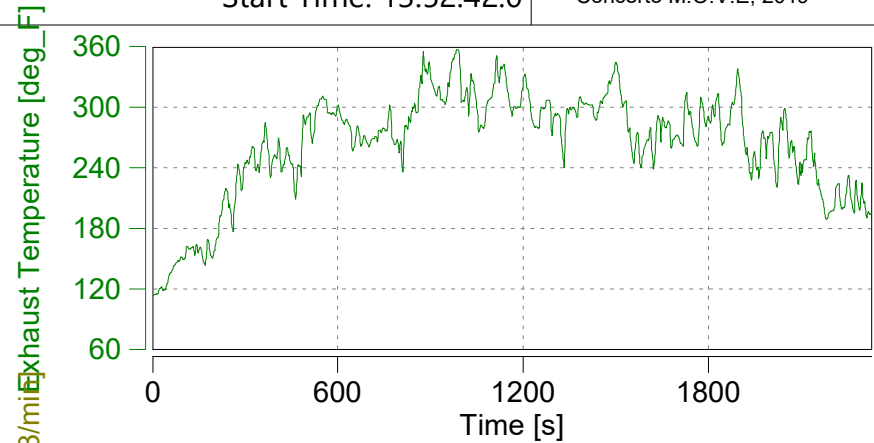
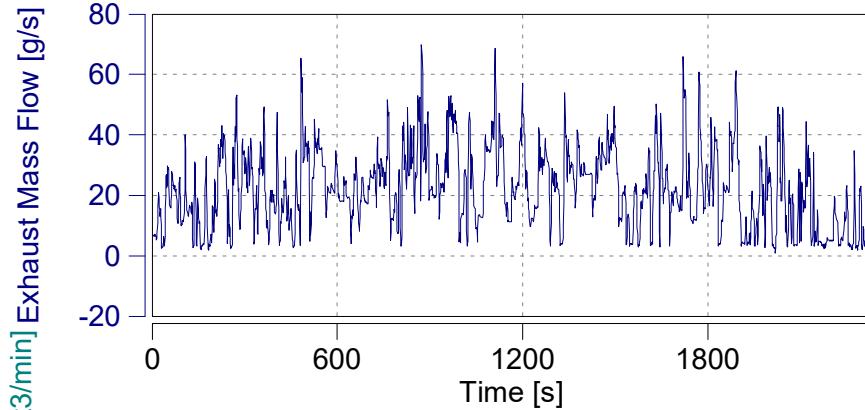
'Highway'

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)

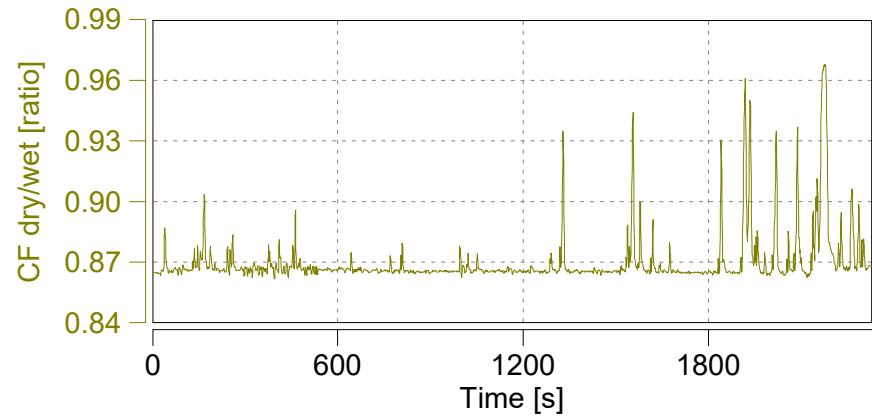
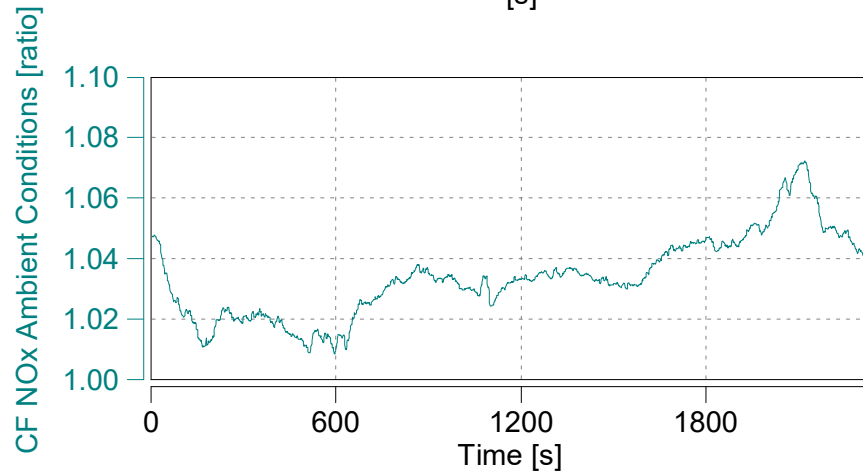
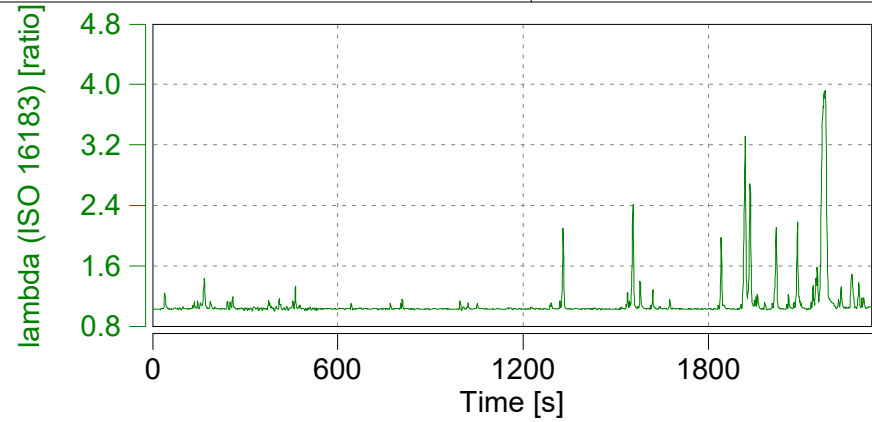
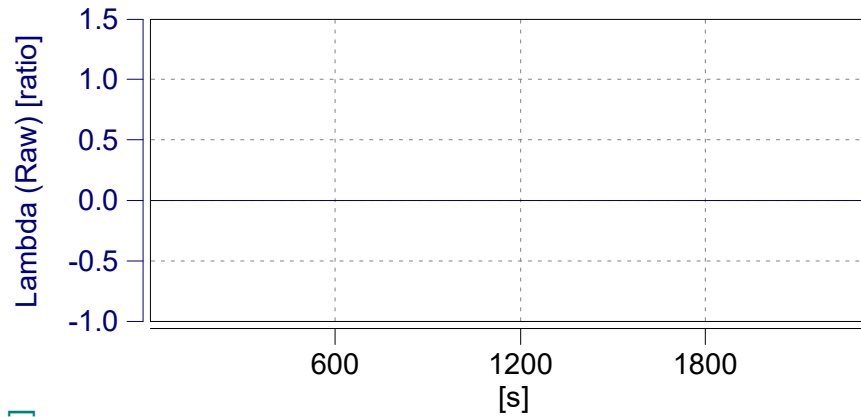
'Highway'

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)

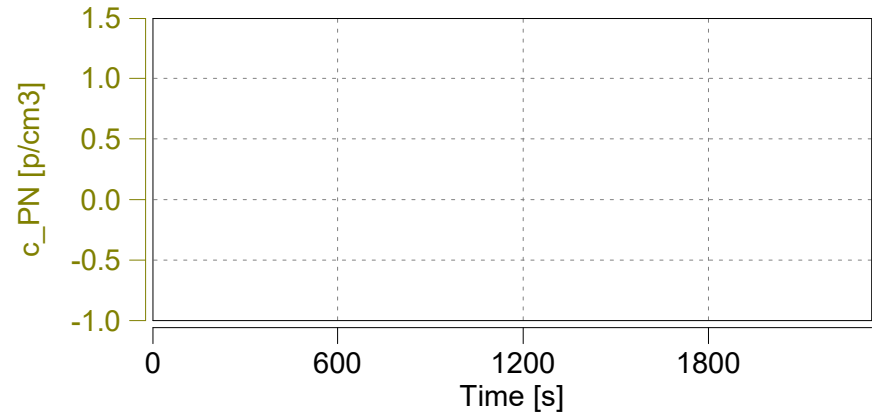
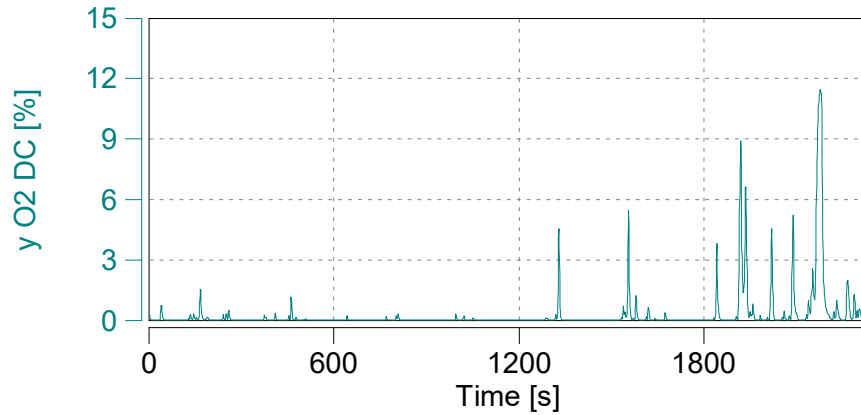
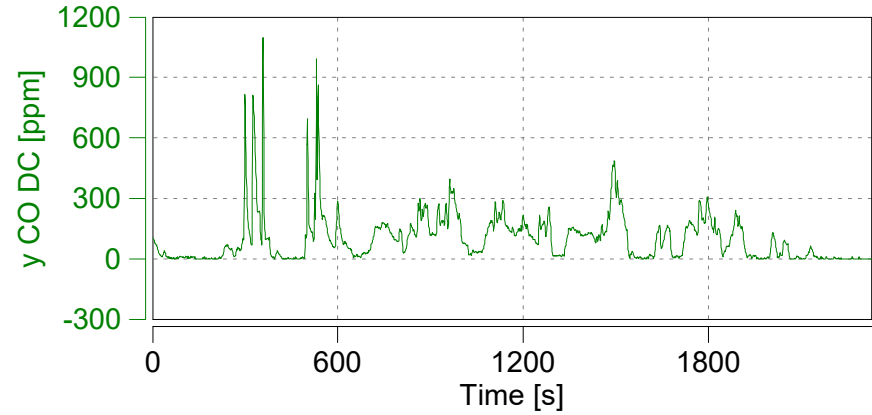
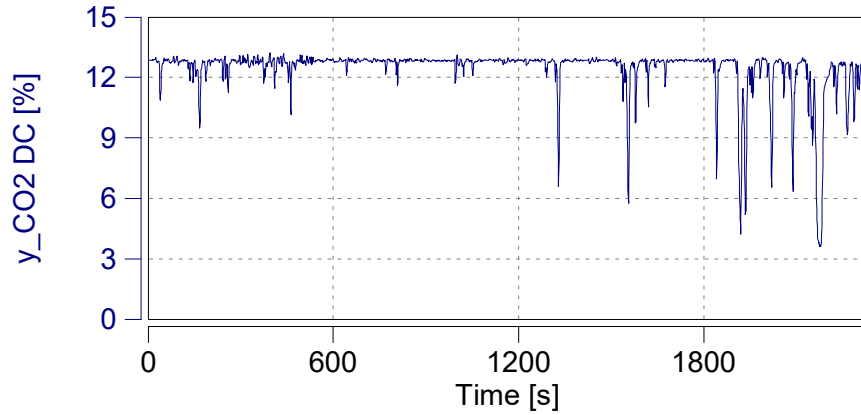
'Highway'

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)

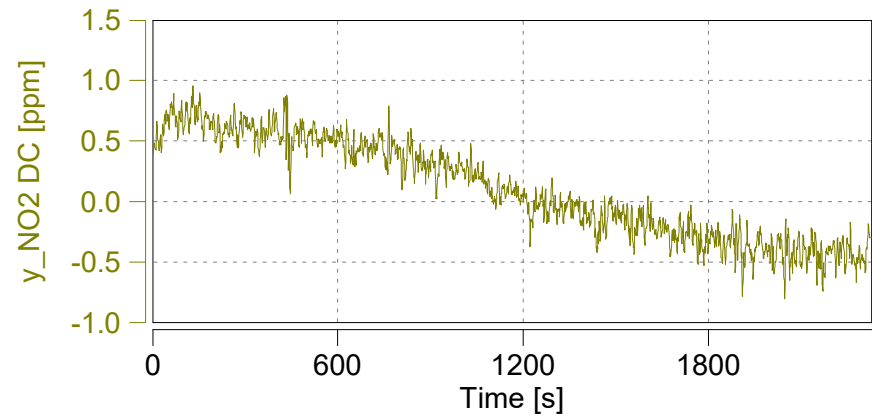
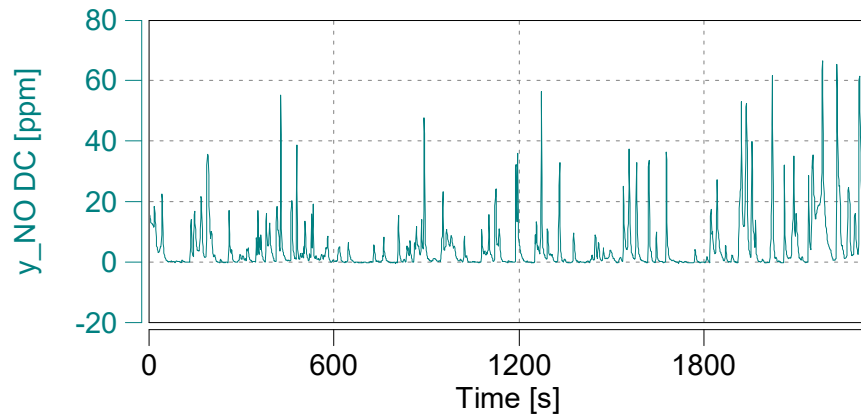
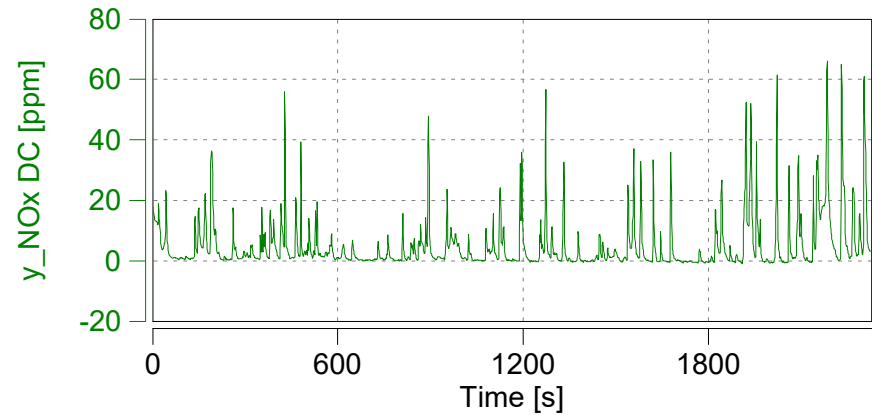
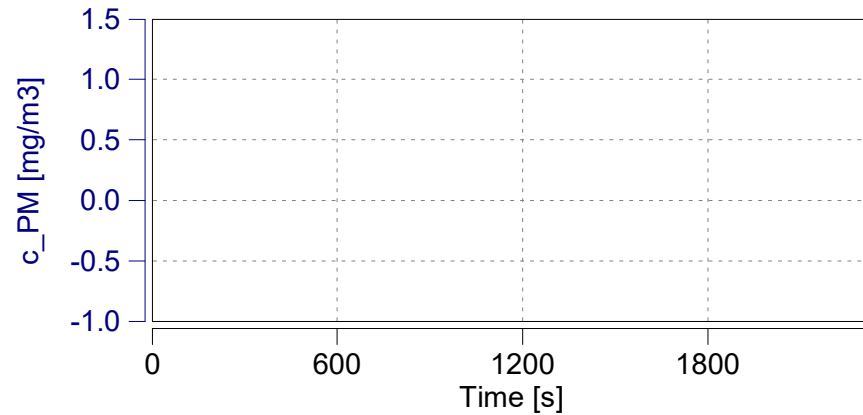
'Highway'

Start Date: 08/29/2019

Start Time: 13:52:42.0

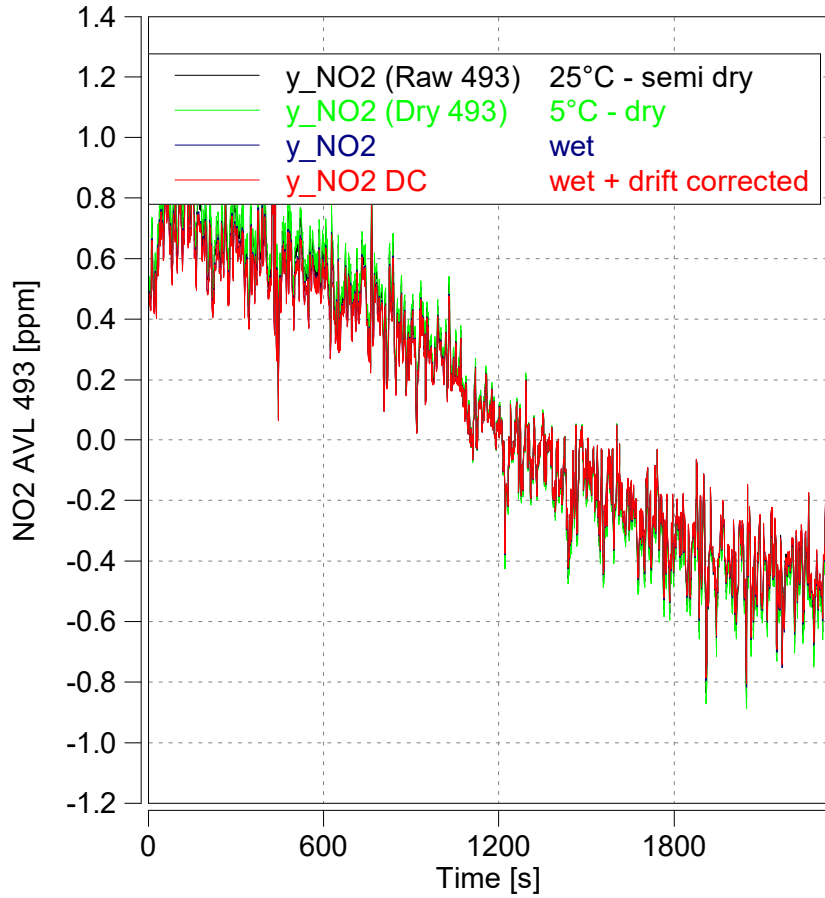
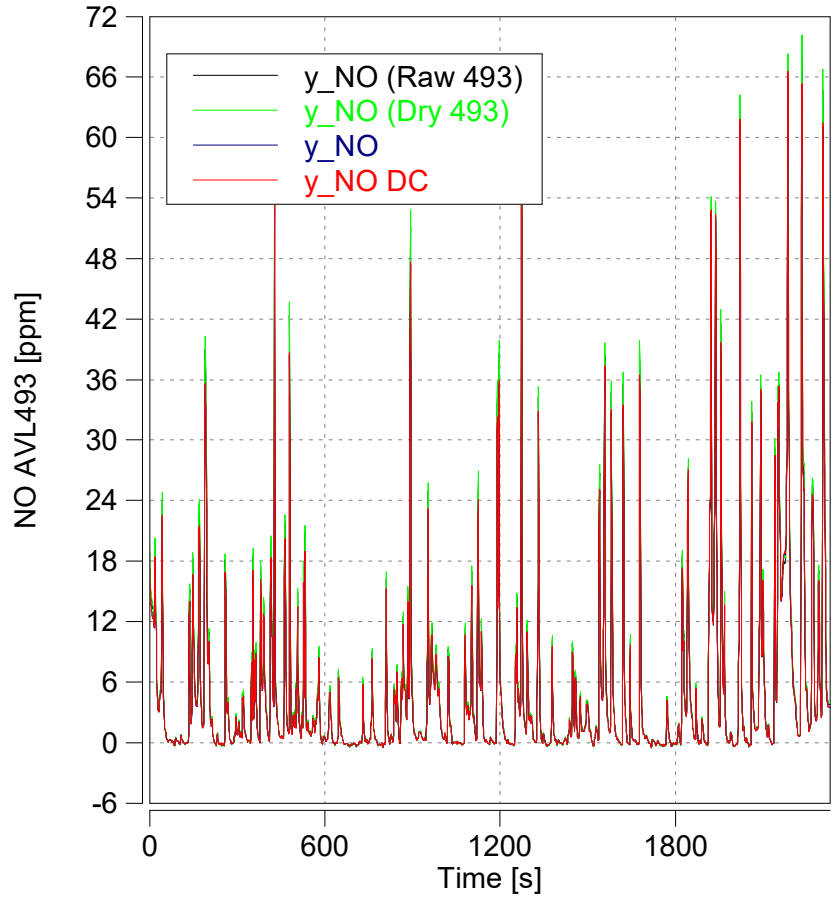


Concerto M.O.V.E., 2019



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

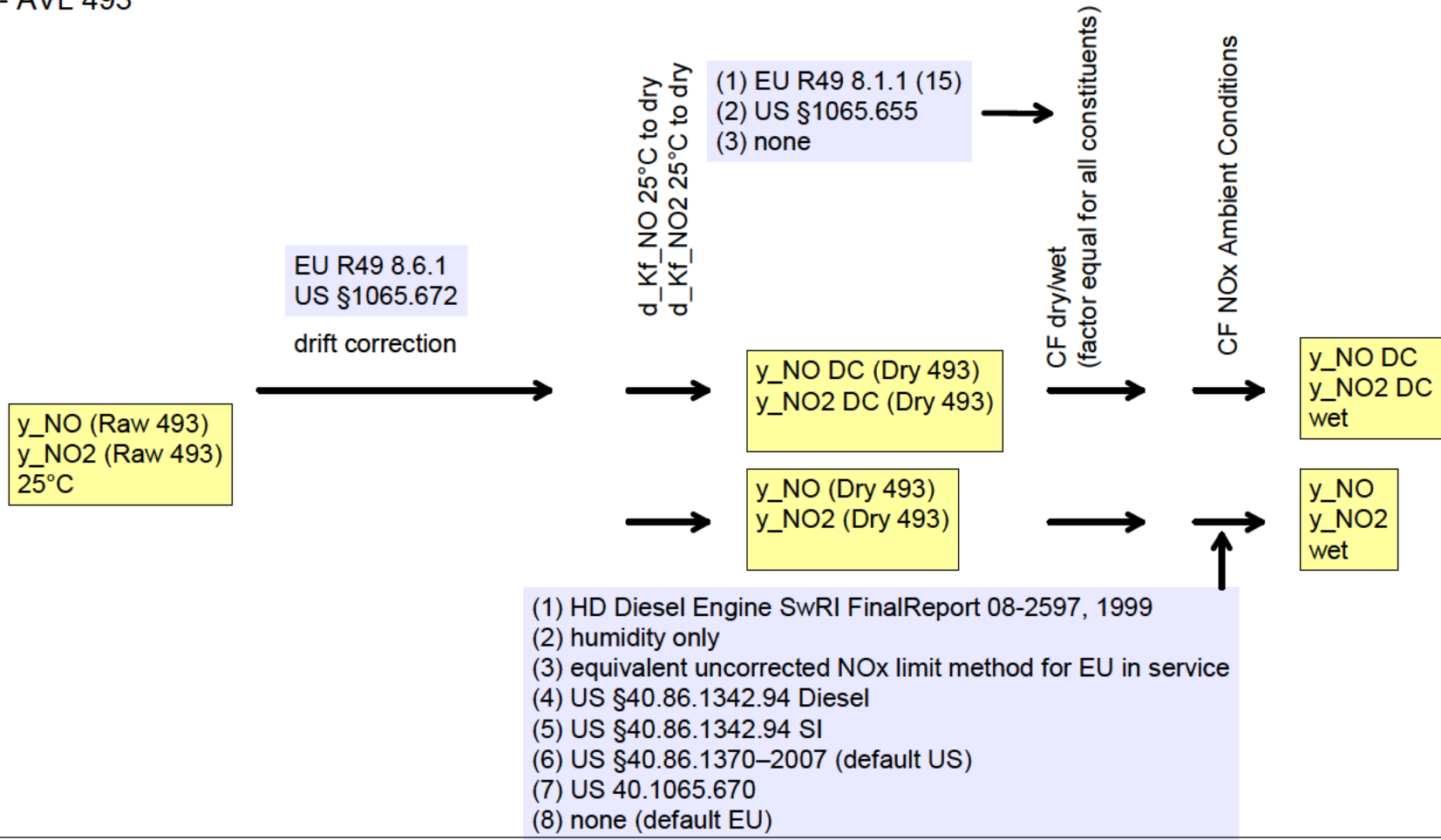


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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



Concerto Version: 480 Build 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 (5)

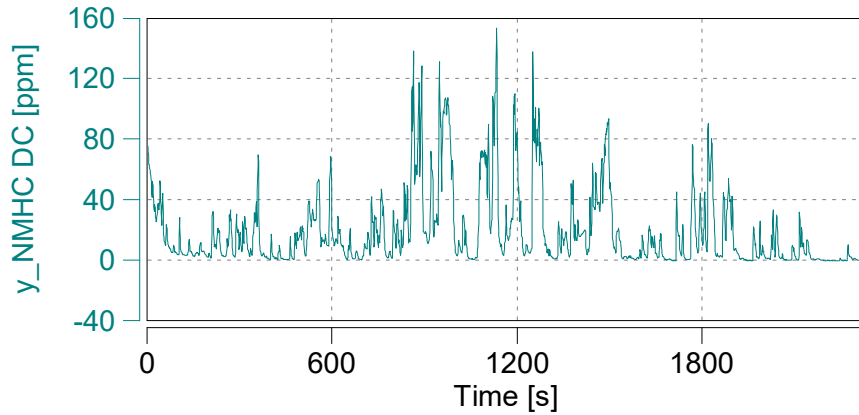
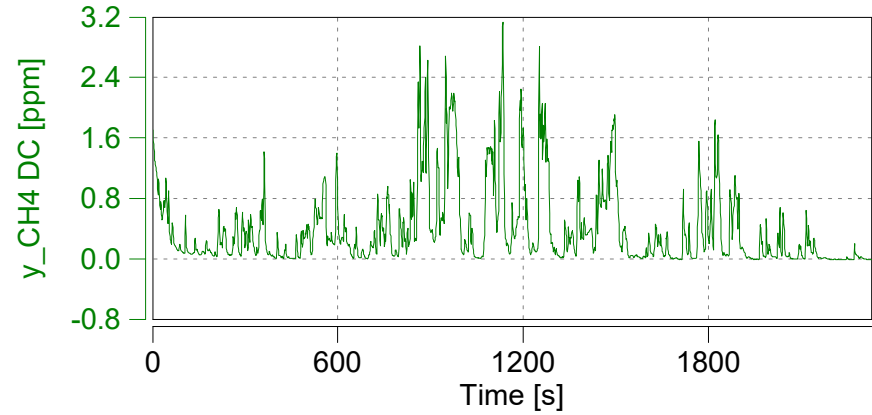
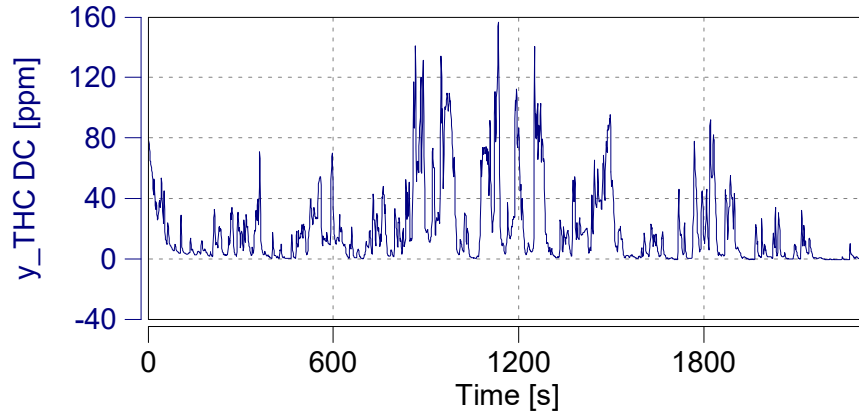
'Highway'

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

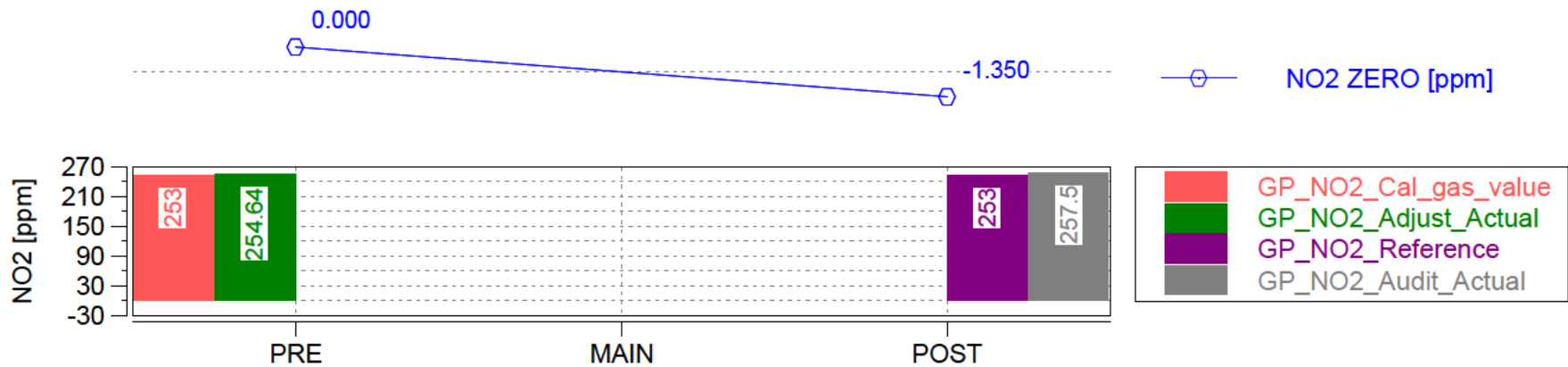
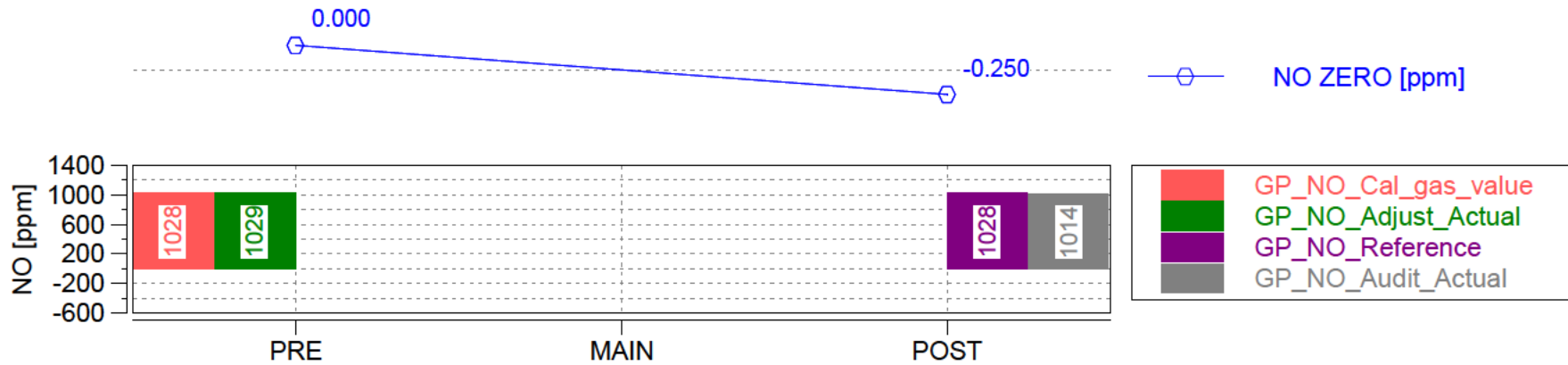
Legislation:

Vehicle: A4 / 2.0 L

Engine: /

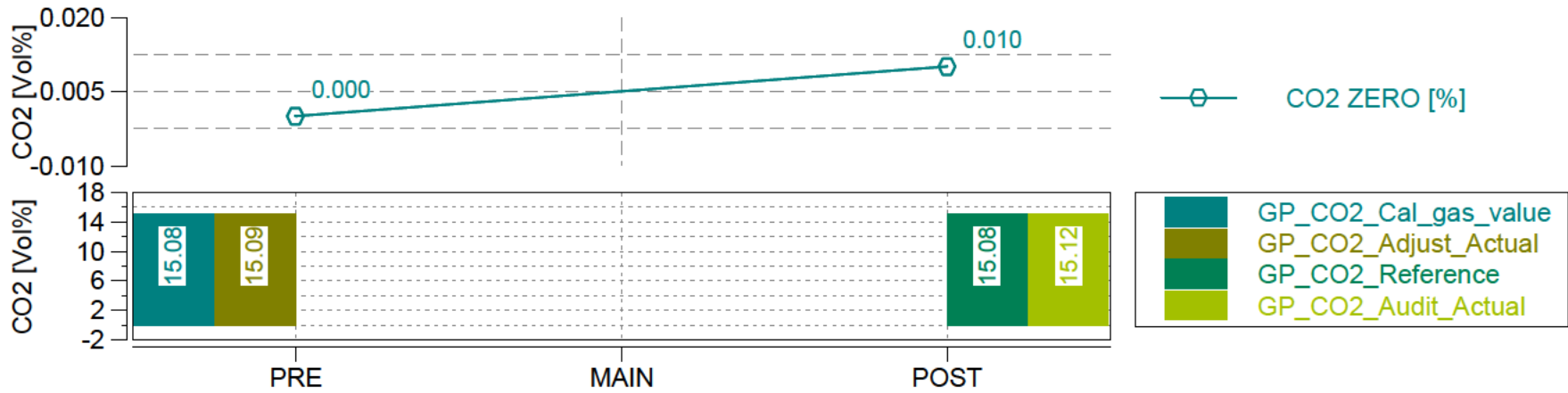
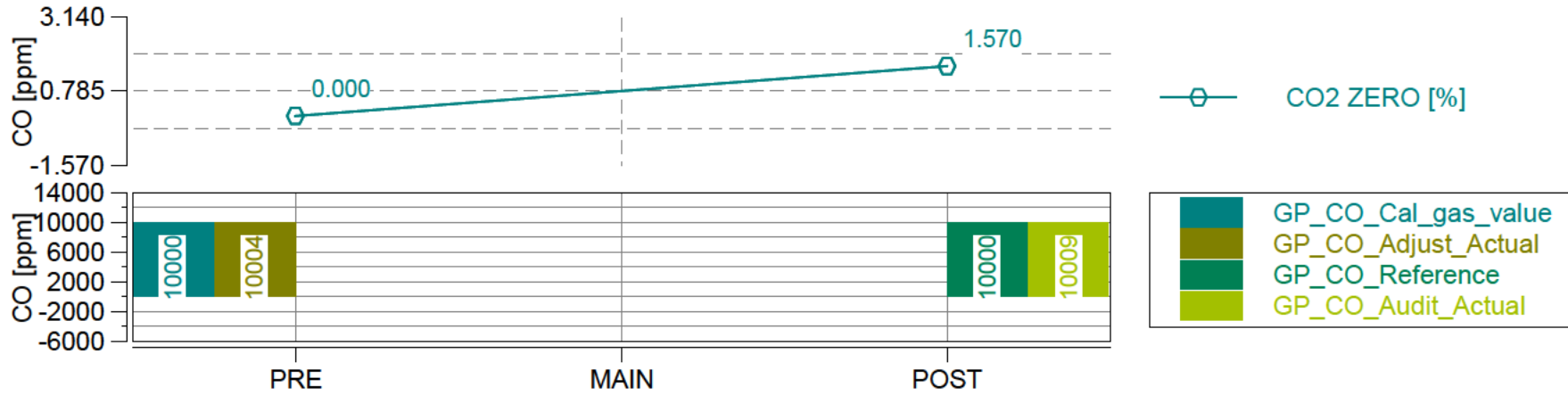
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



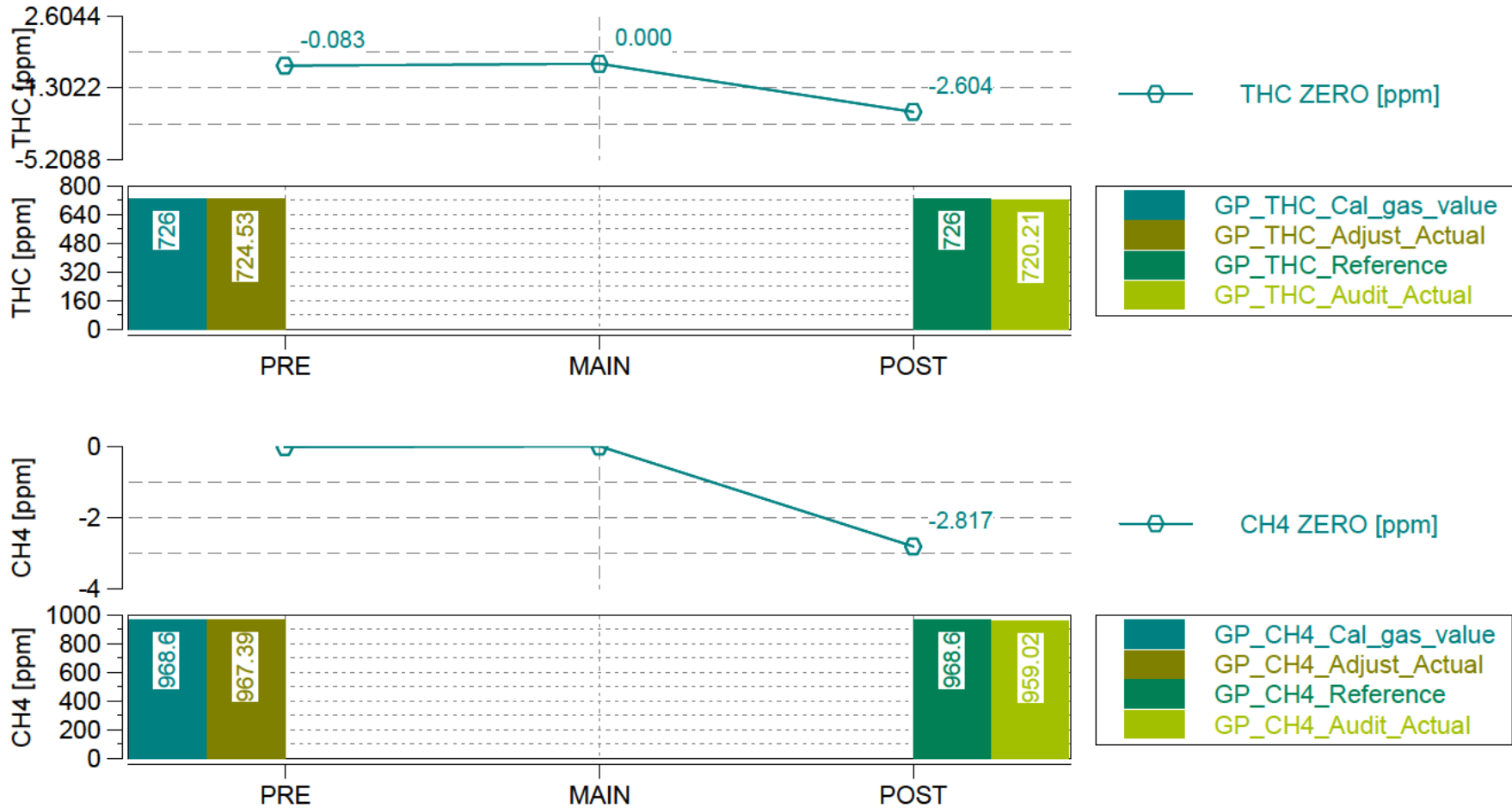
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

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

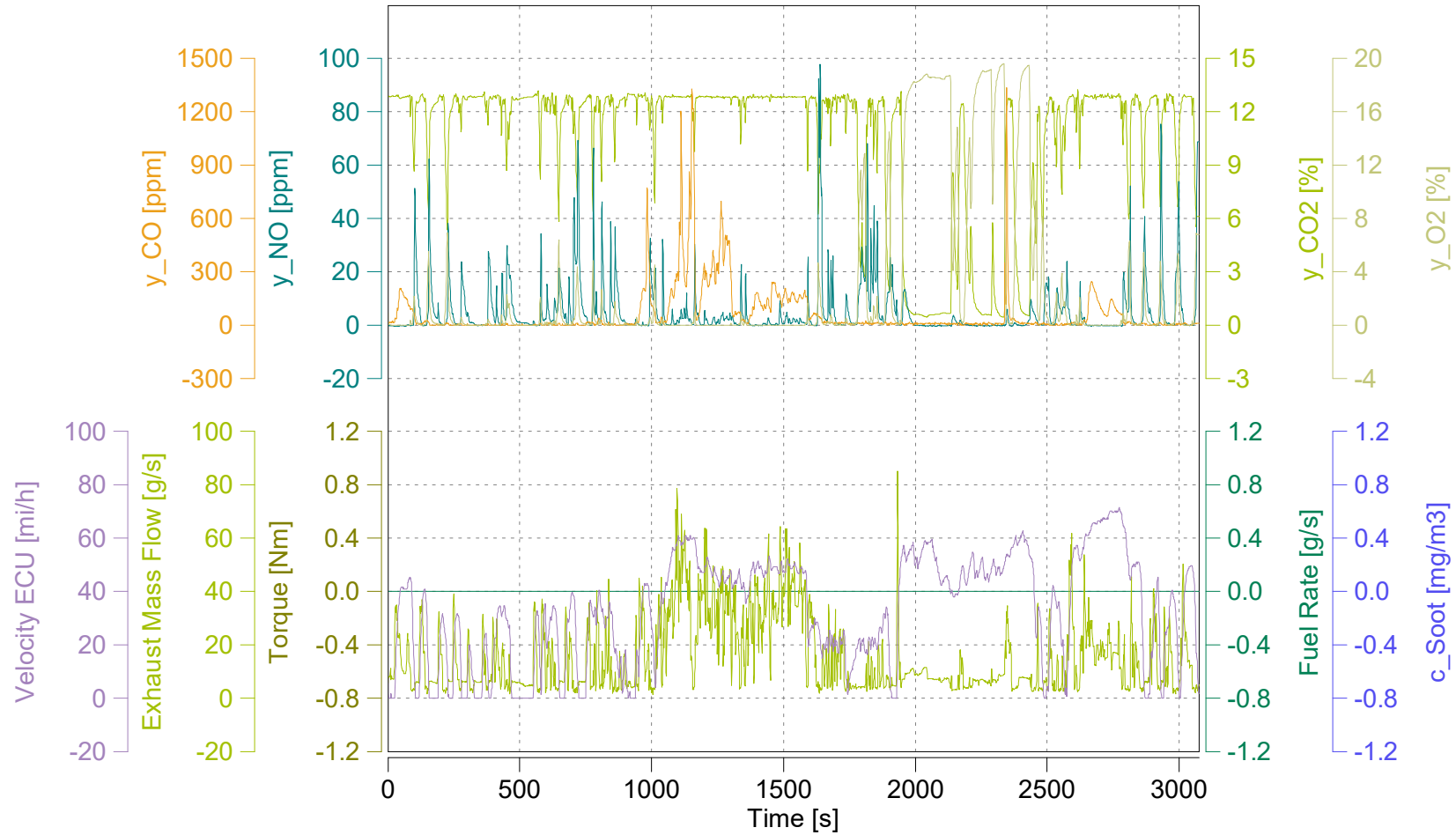


Trip Duration	3076.00	s	ave THC DC	13.92202	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3076.00	s	ave NMHC DC	13.64358	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.49	mi	ave CH4 DC	0.27844	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.49	mi	ave CO DC	61.44603	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	10.50110	%	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

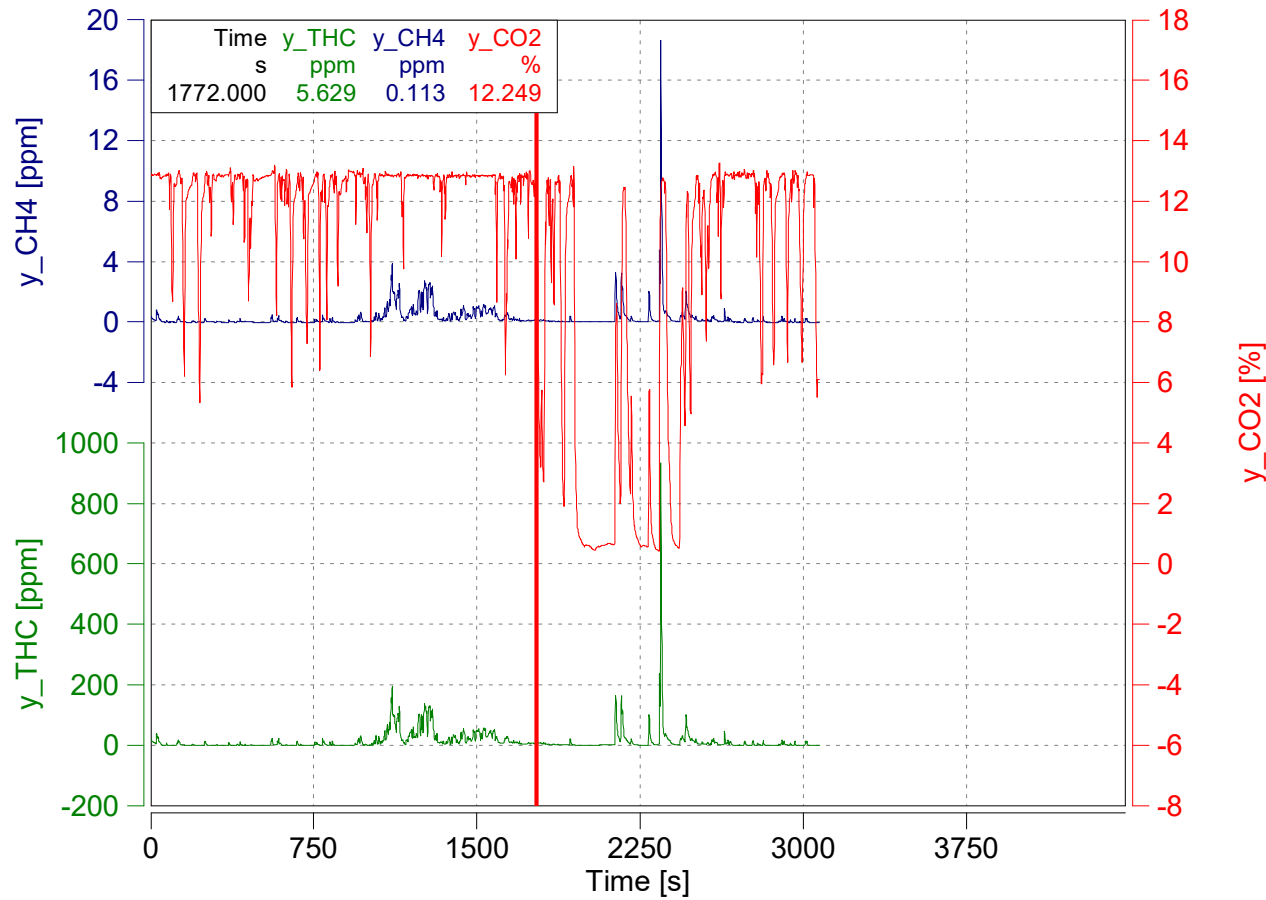
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 Legislation:

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
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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



Absolute Time Shifts

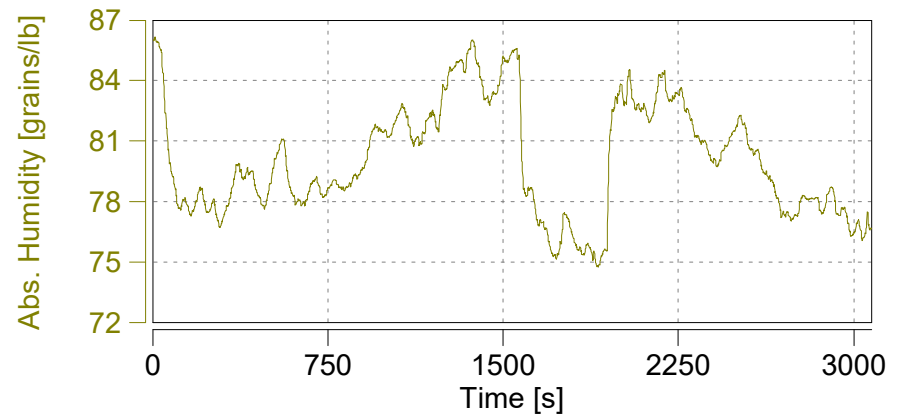
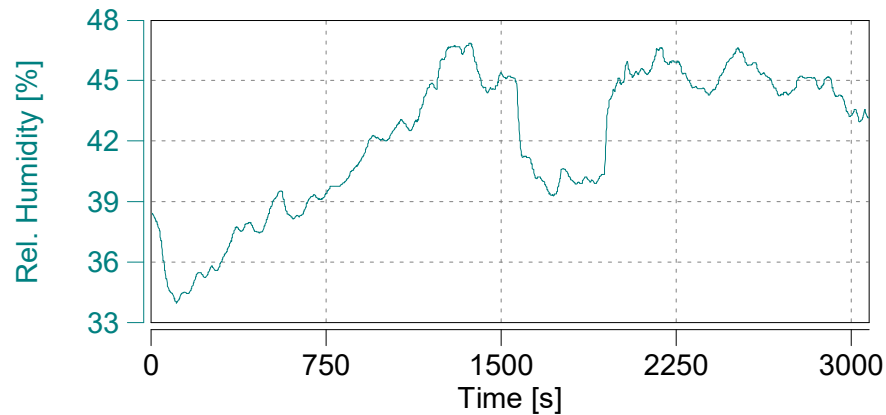
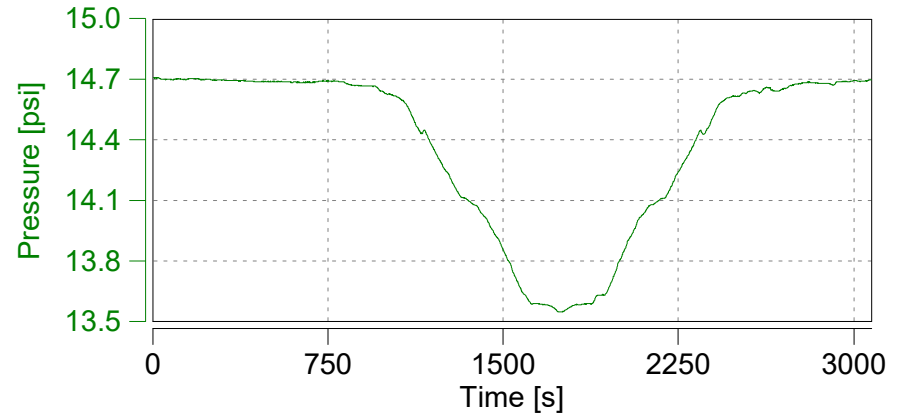
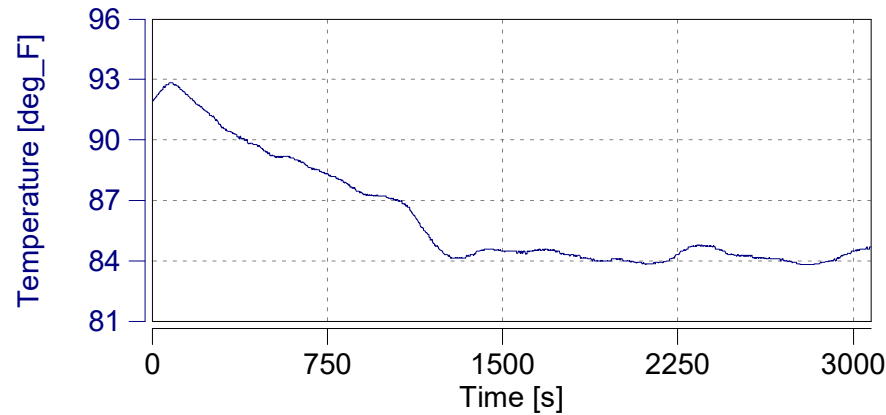
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

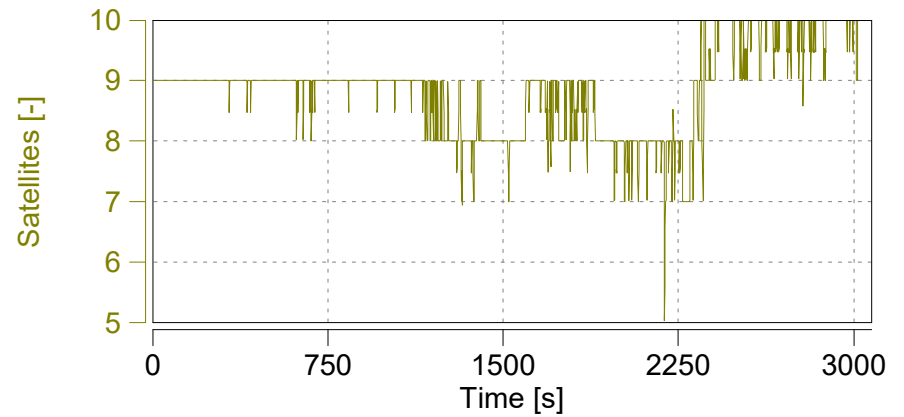
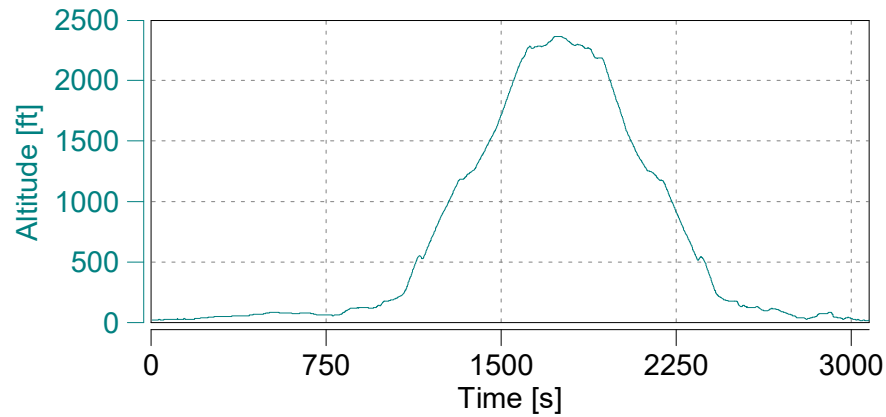
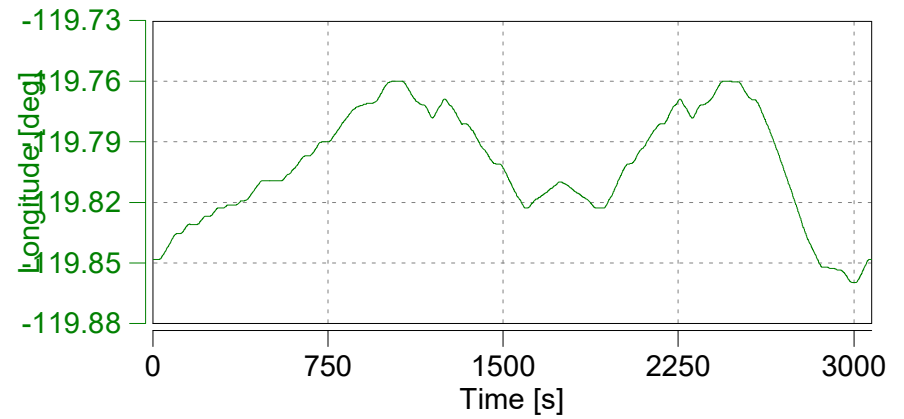
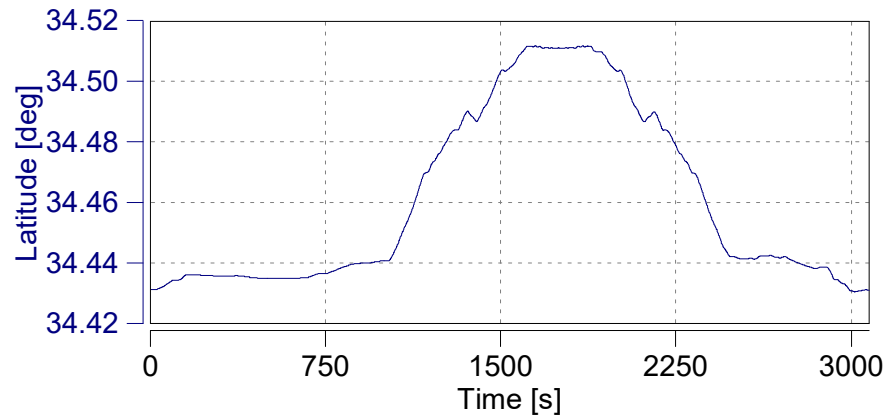
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 Legislation:

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



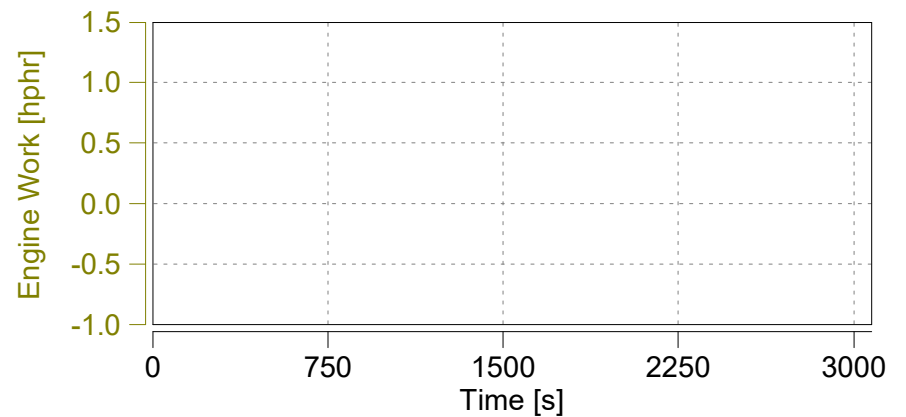
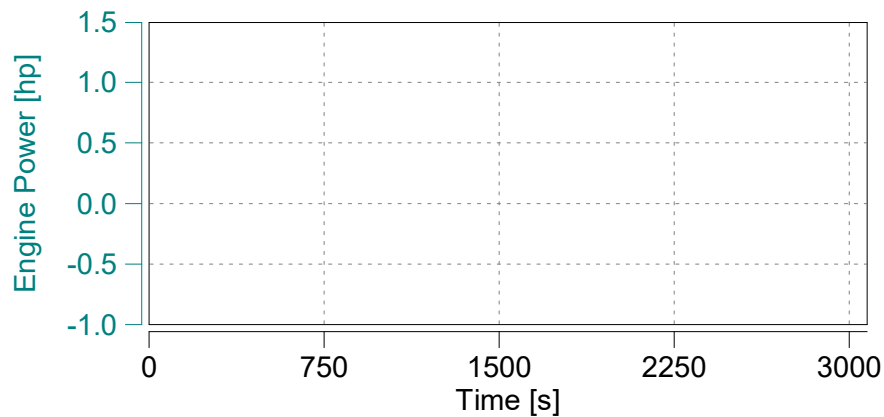
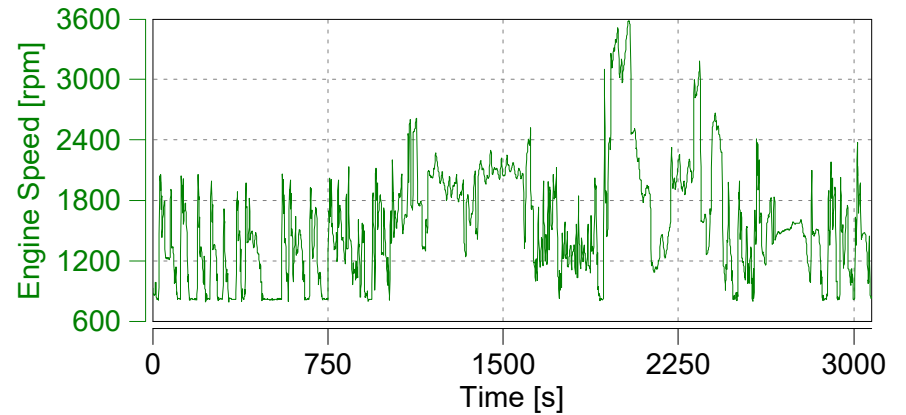
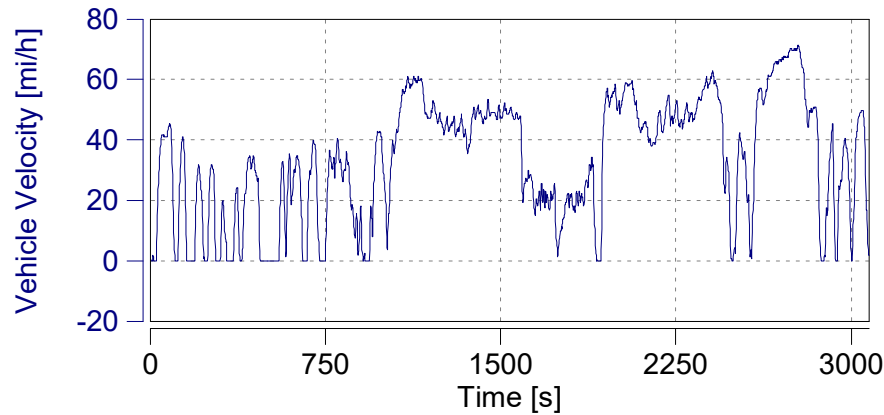
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Legislation:

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



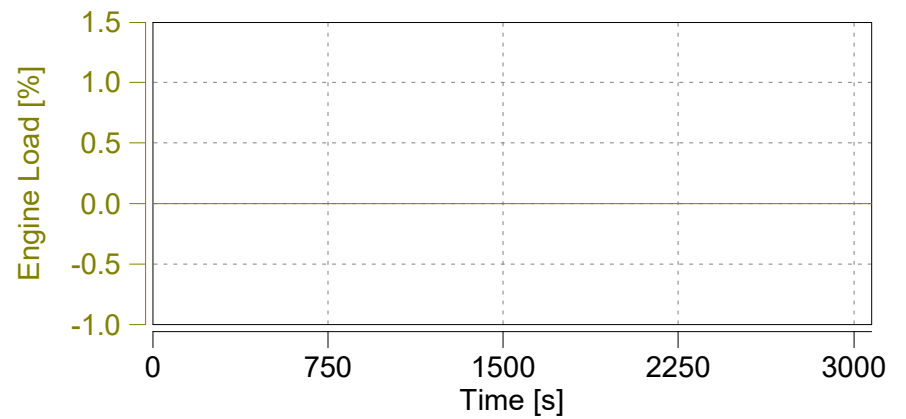
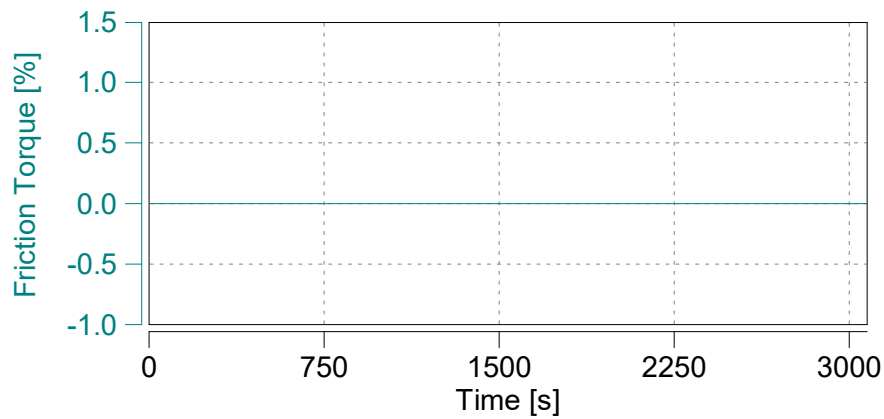
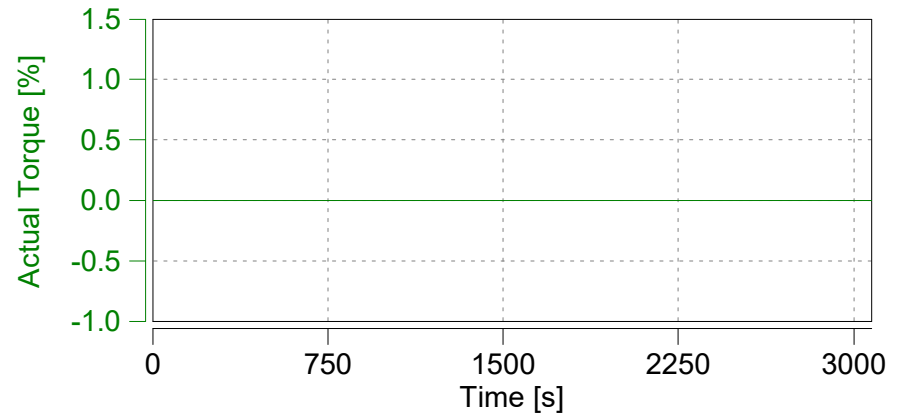
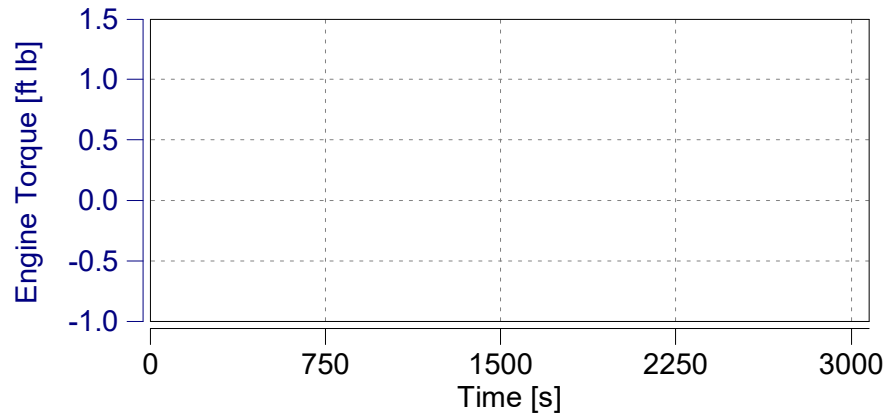
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Legislation:

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



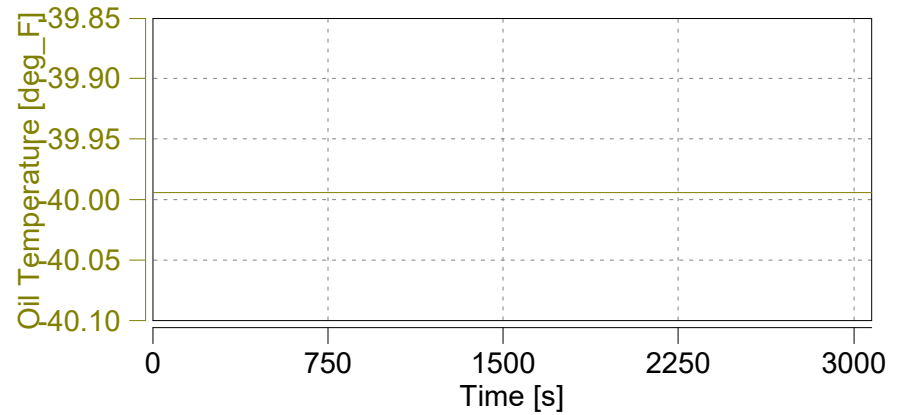
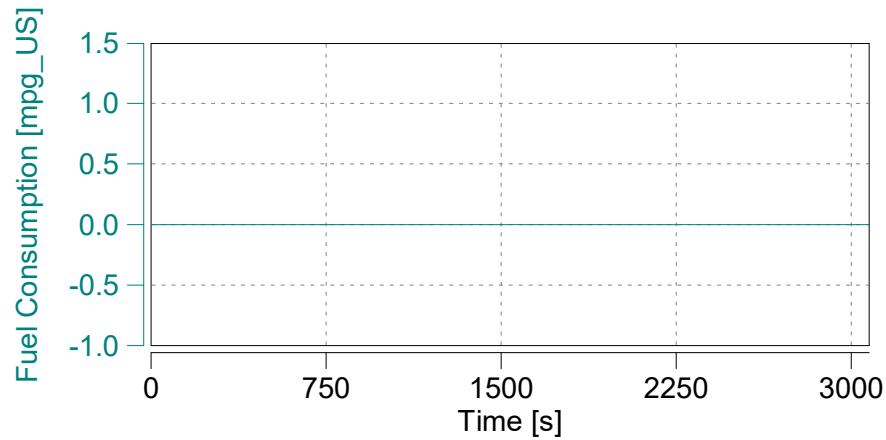
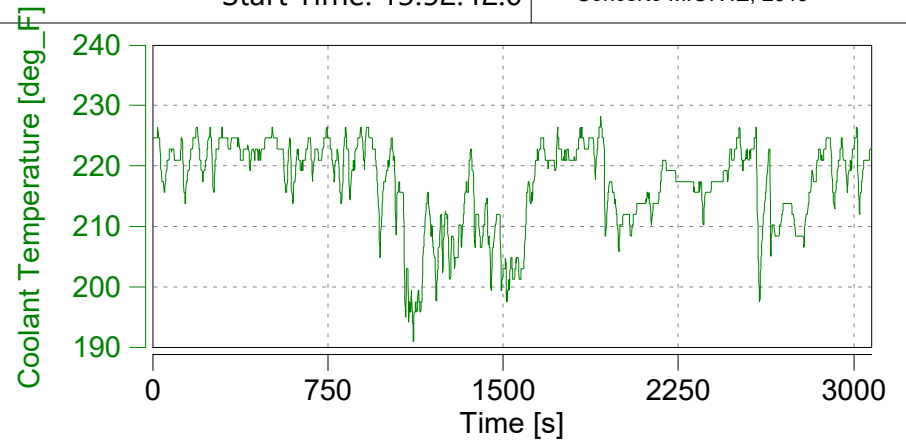
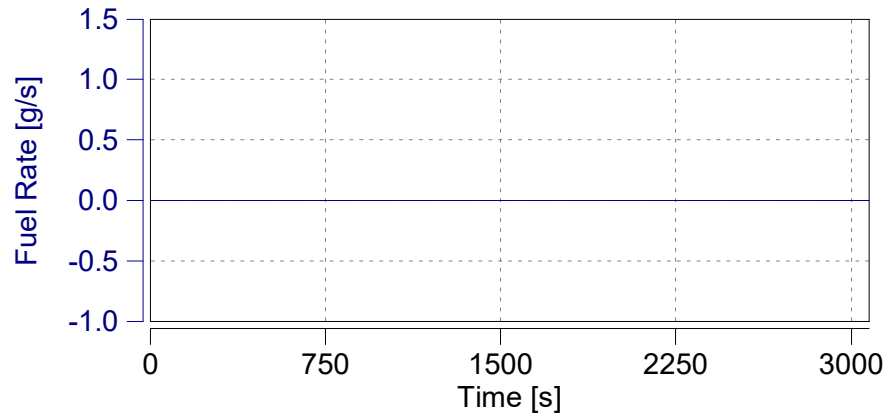
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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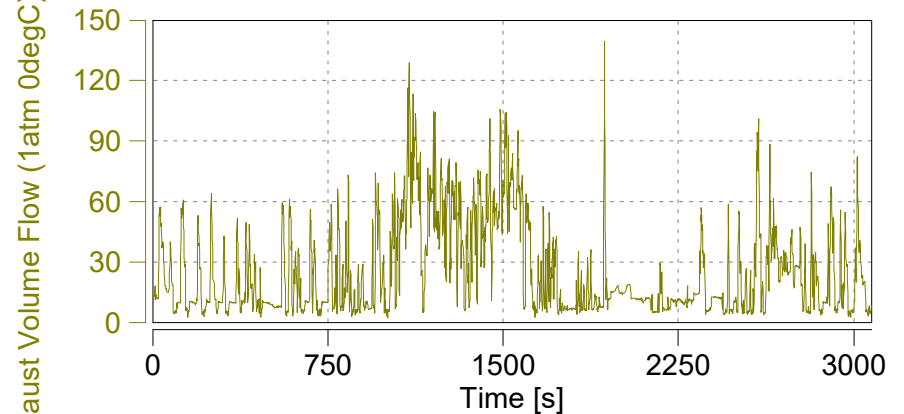
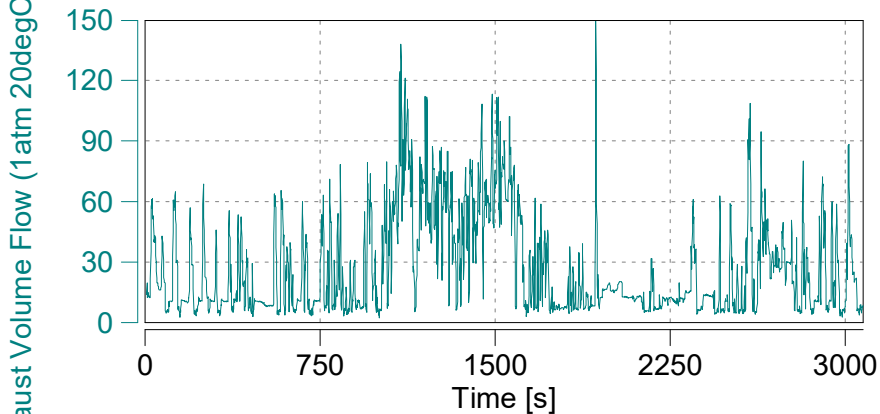
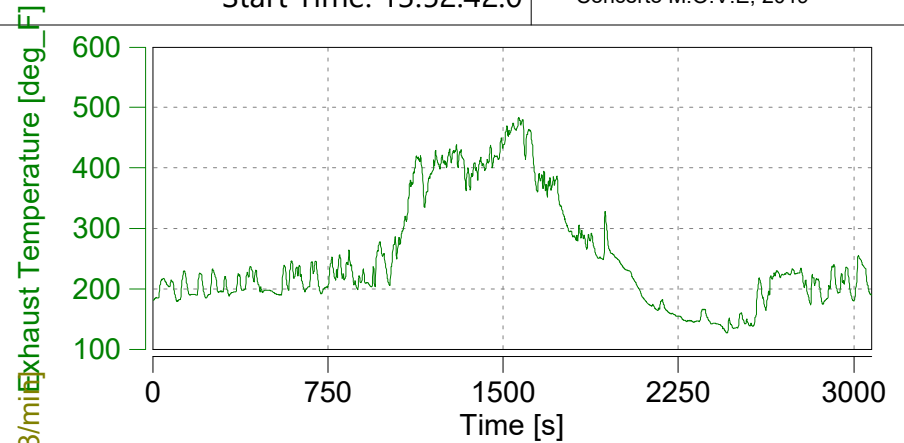
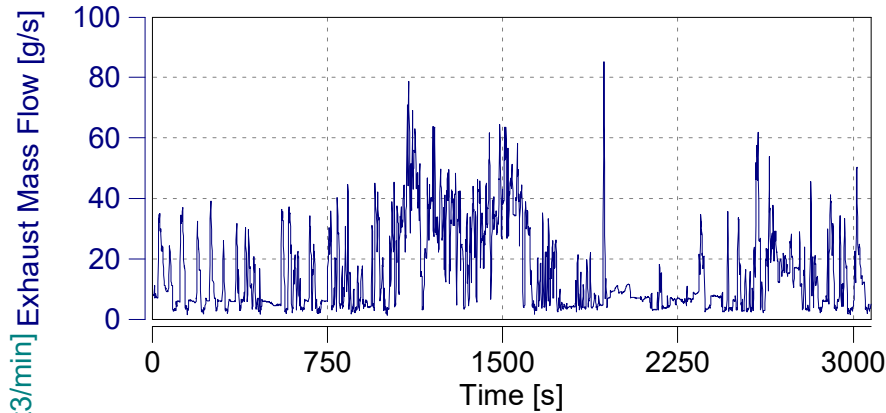
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Legislation:

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



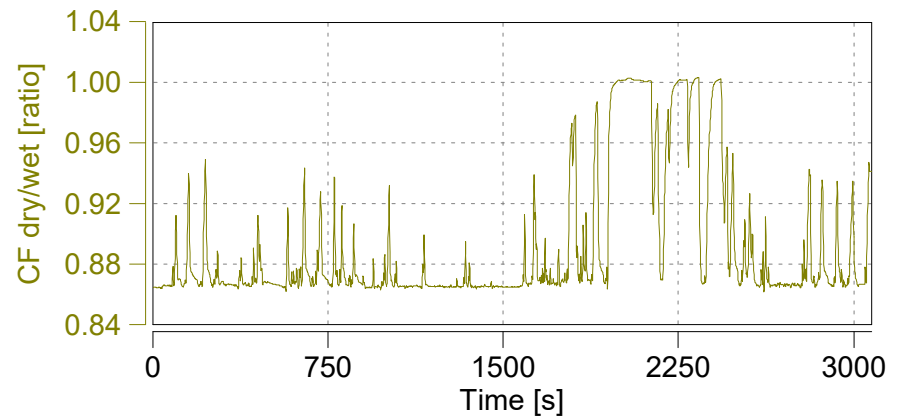
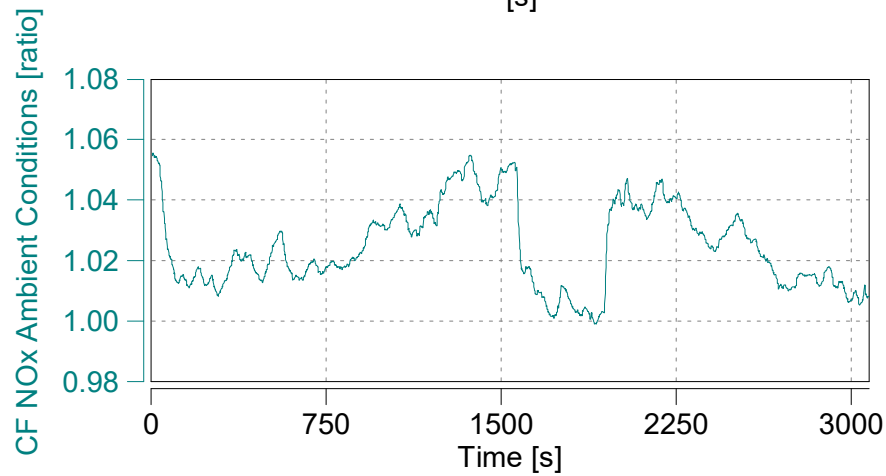
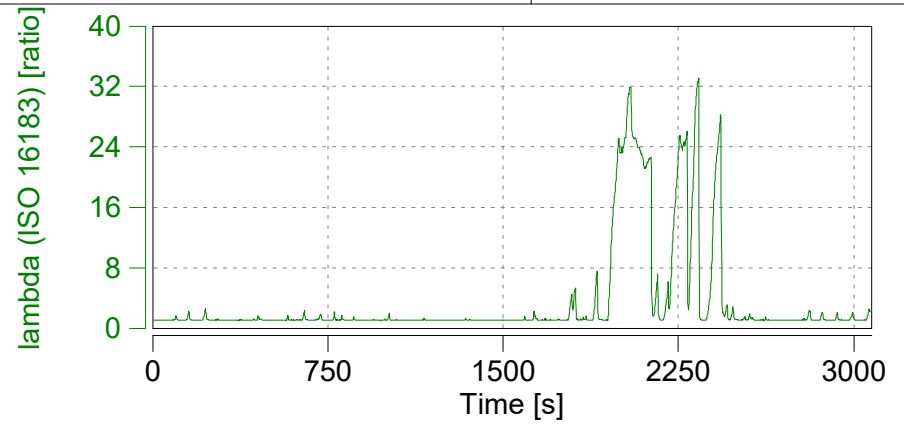
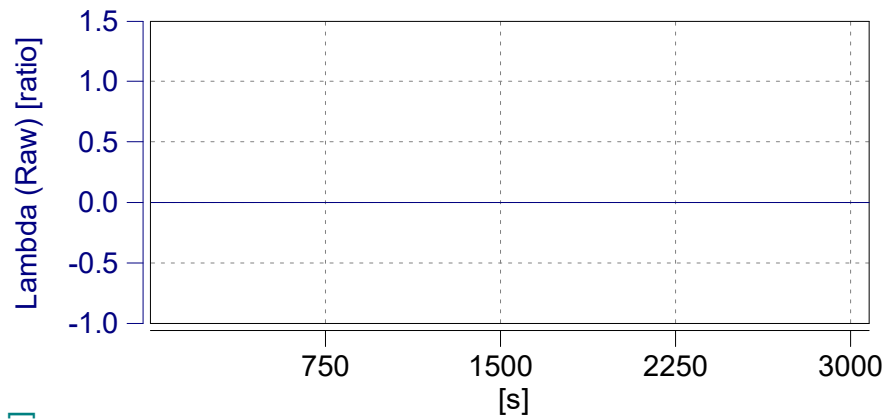
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Legislation:

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



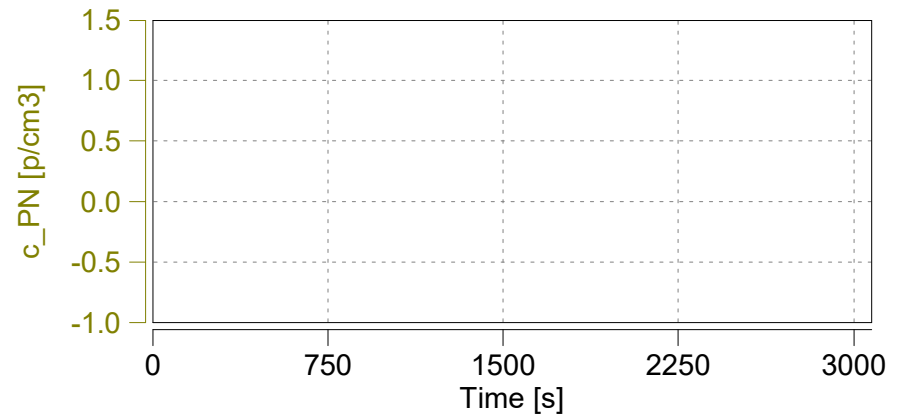
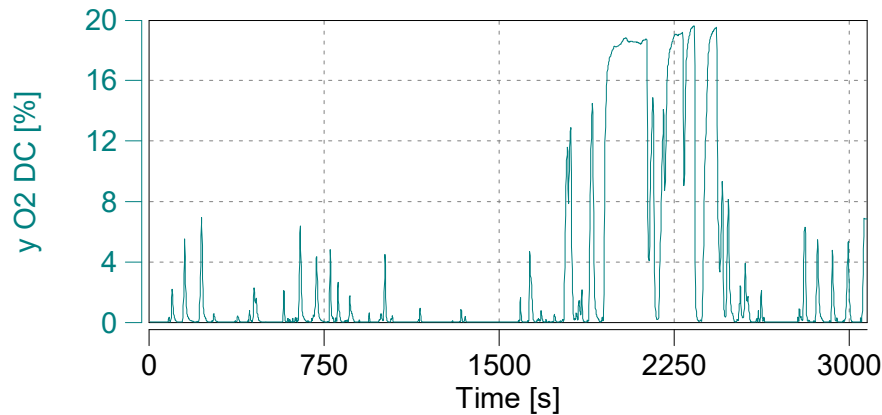
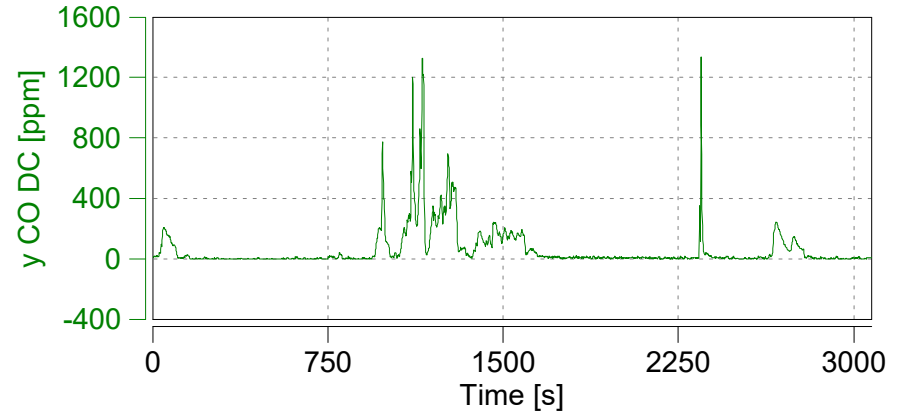
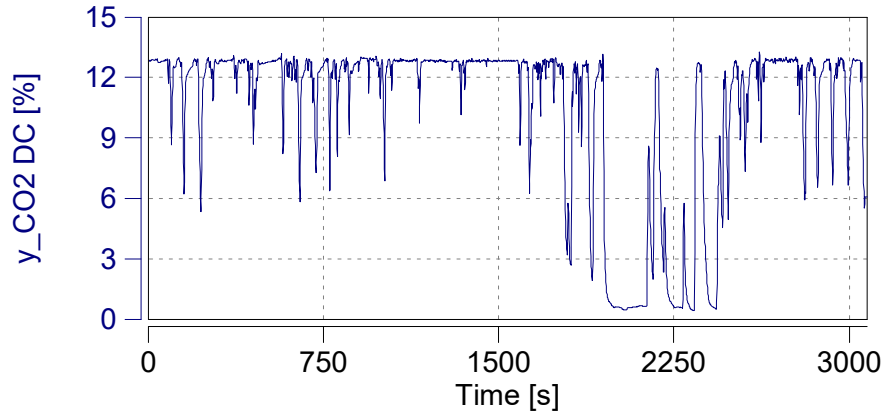
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Legislation:

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



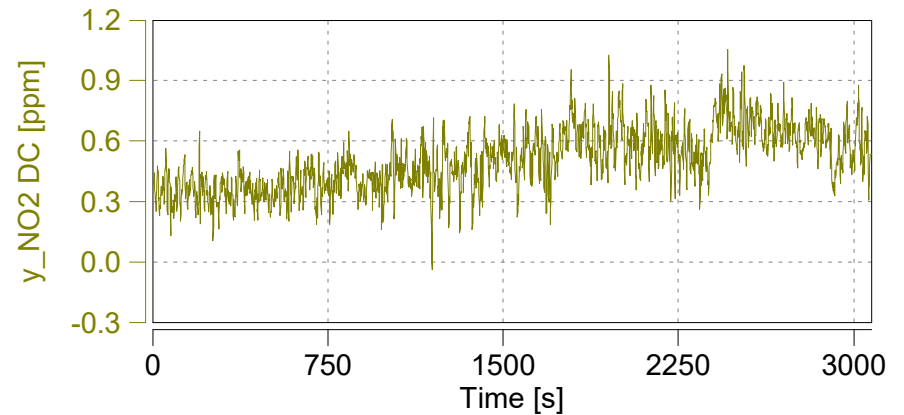
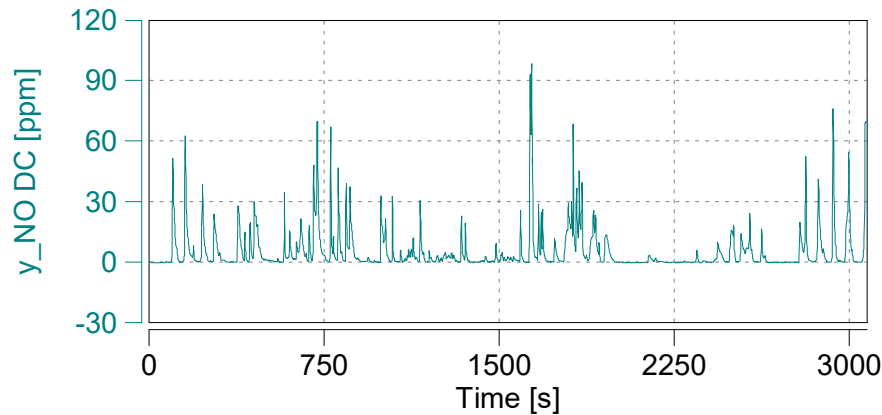
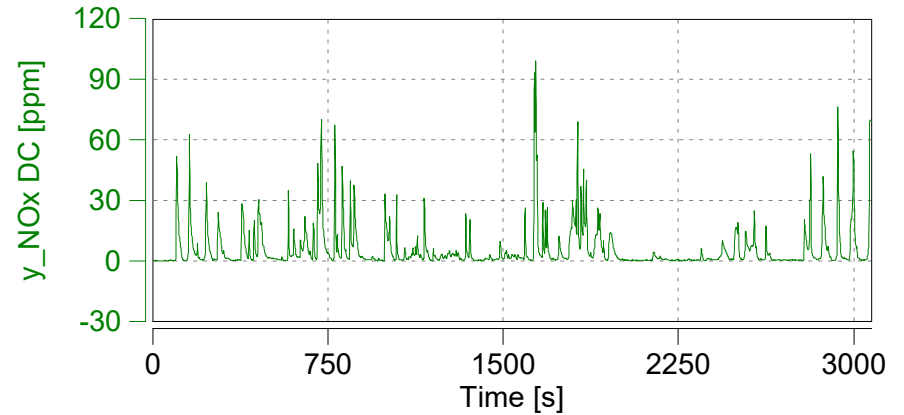
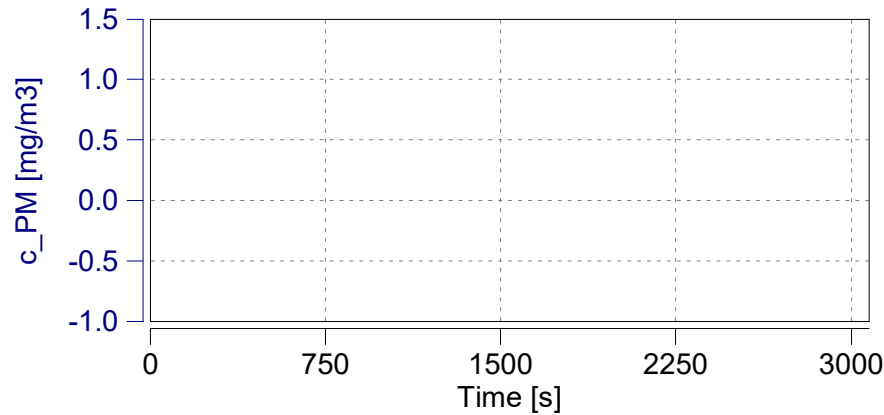
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Legislation:

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



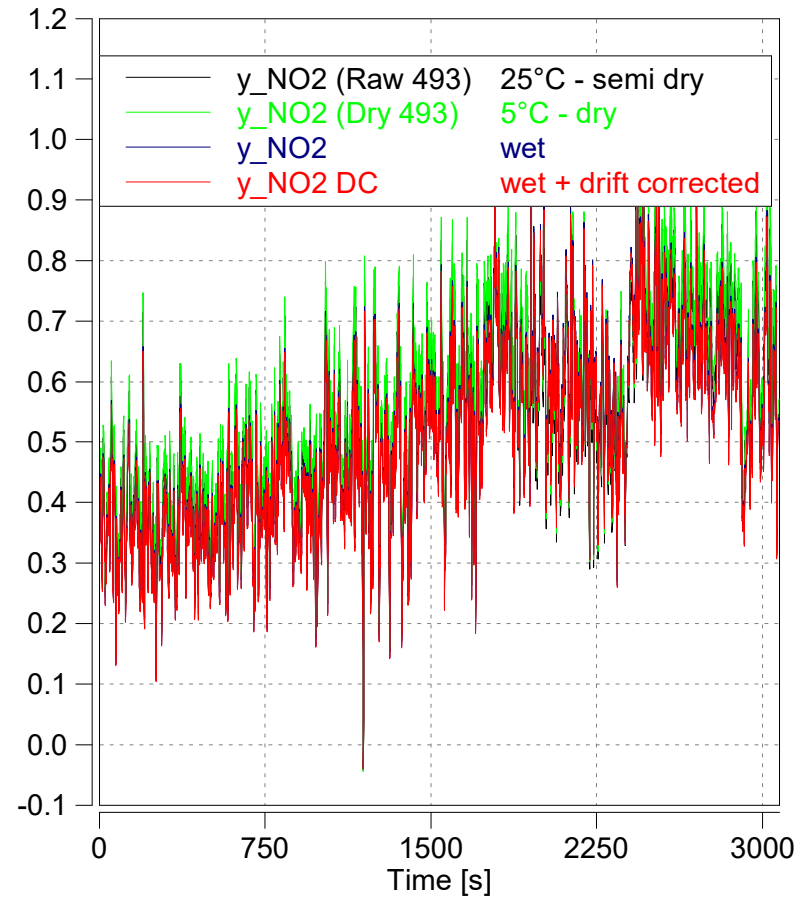
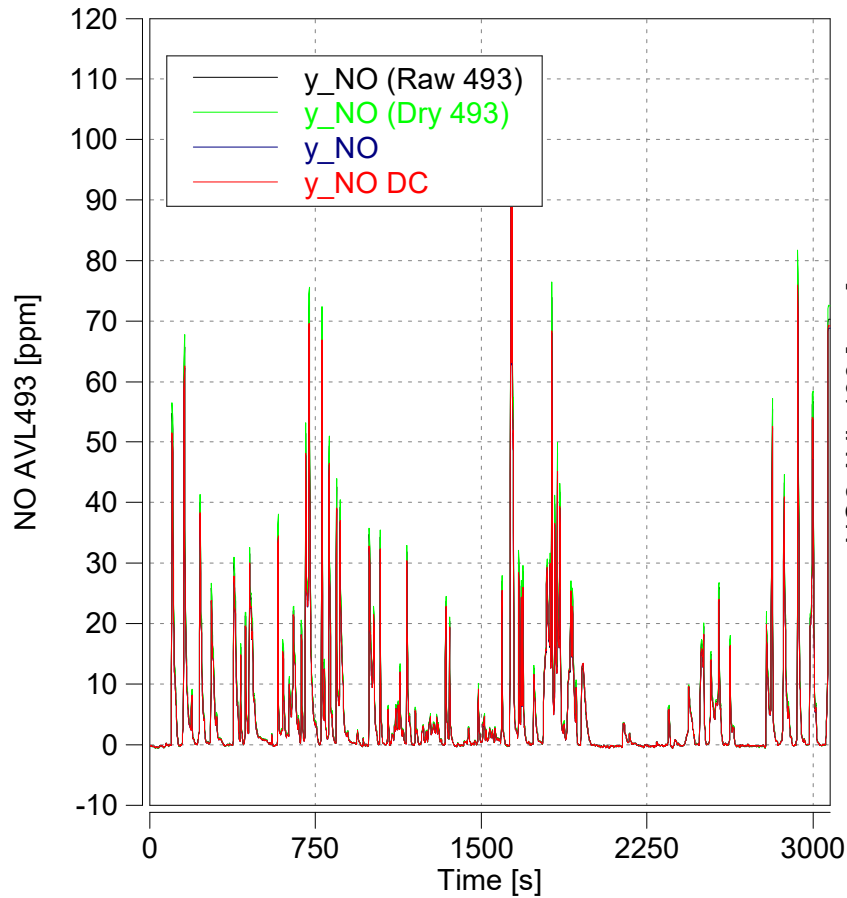
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Legislation:

Vehicle: A4 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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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\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

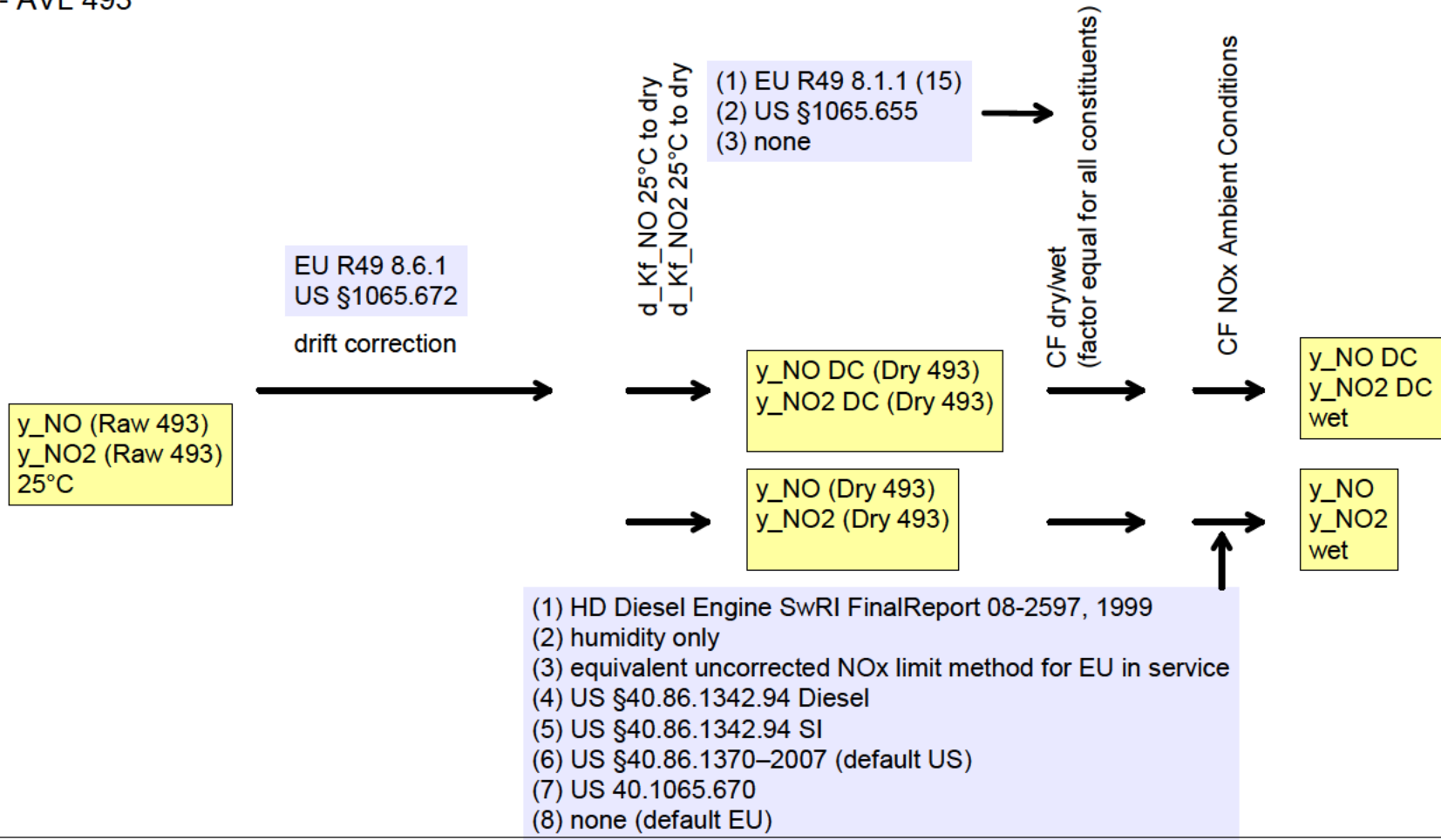


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Legislation:

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)

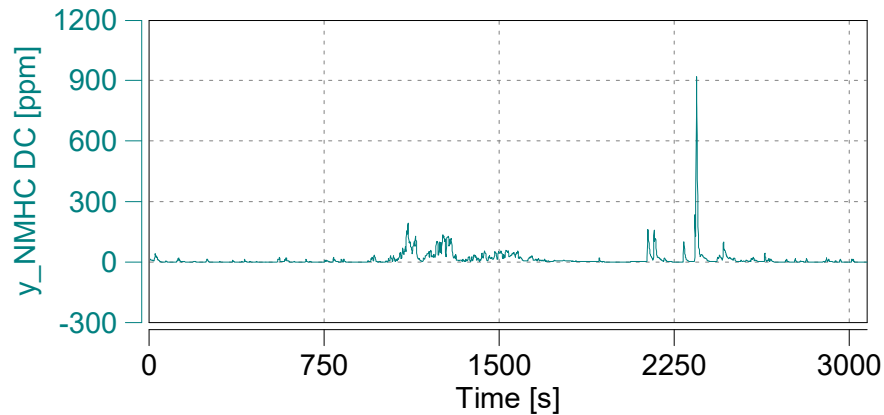
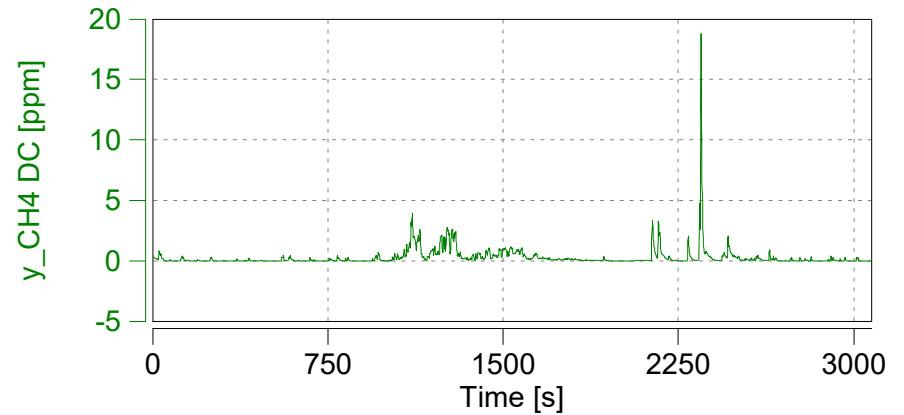
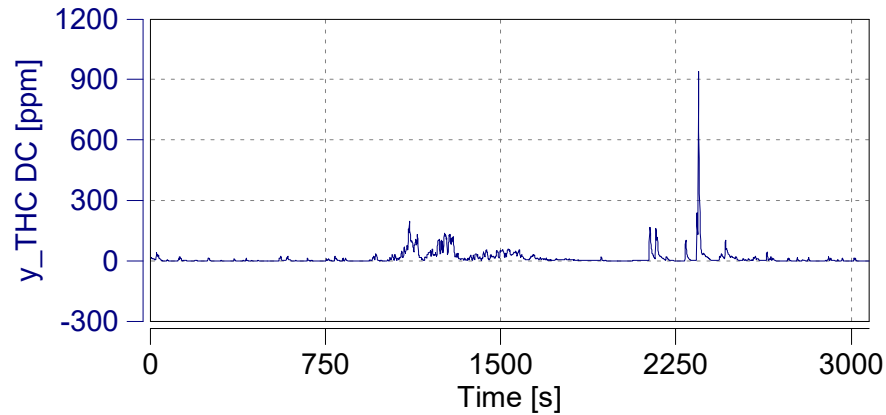
'Mountain'

Start Date: 08/29/2019

Start Time: 13:52:42.0

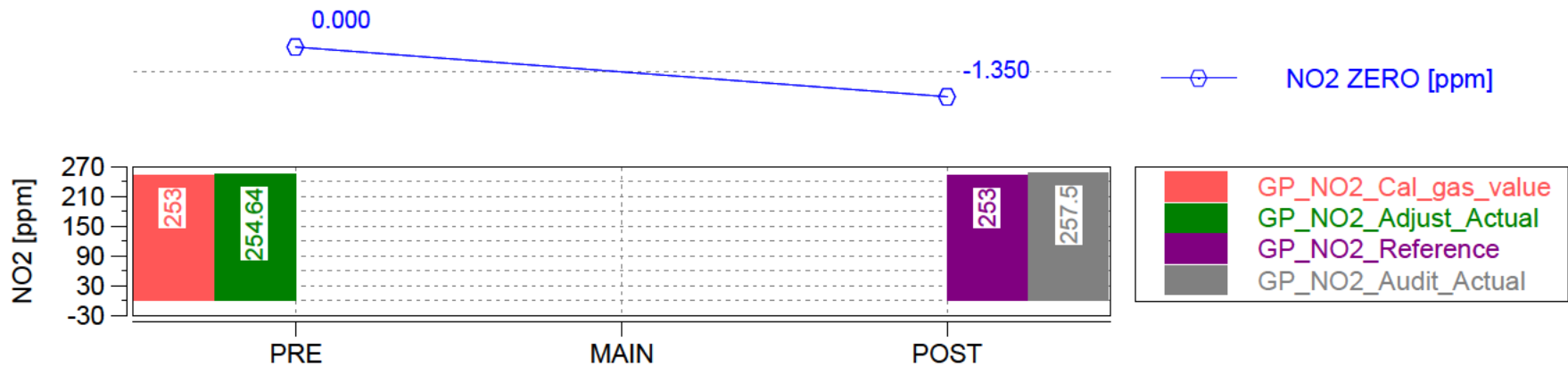
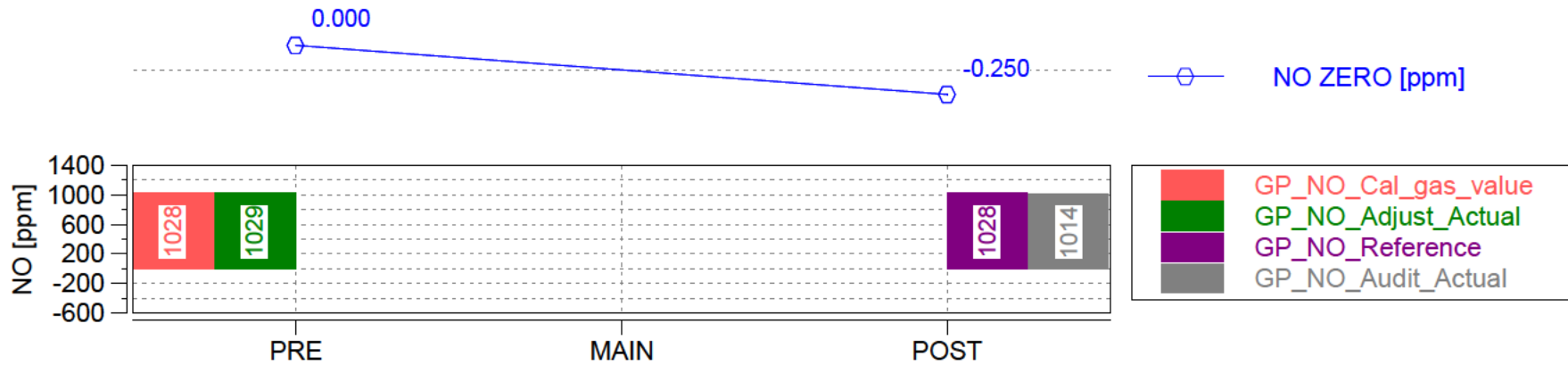


Concerto M.O.V.E., 2019



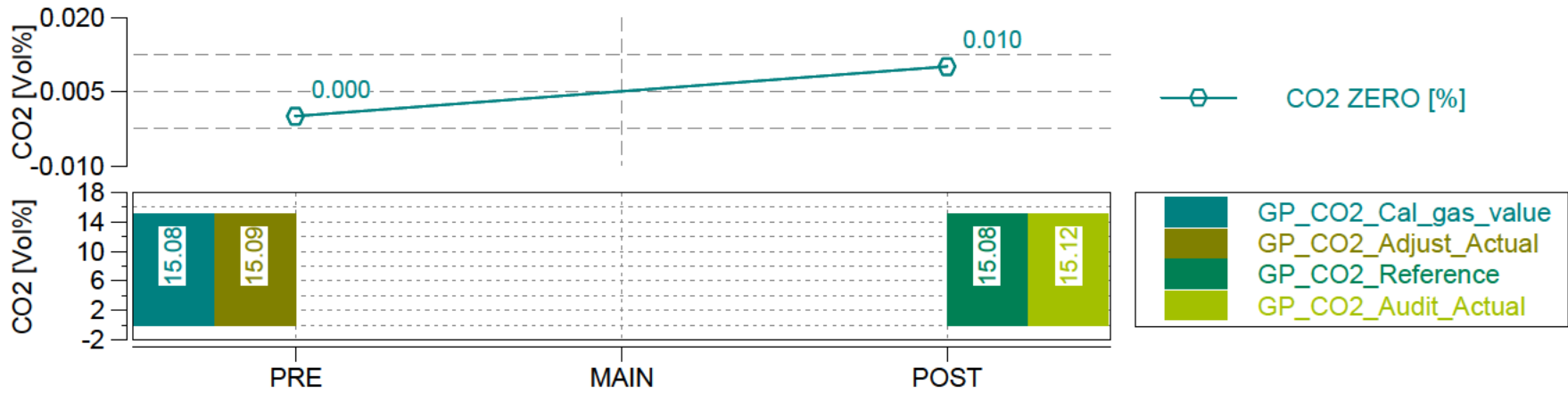
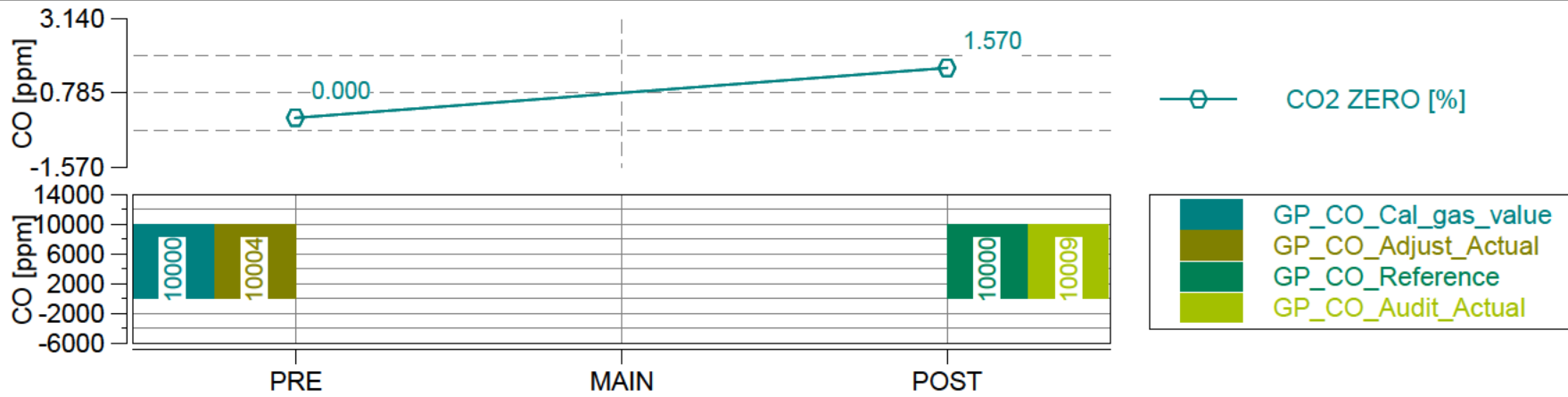
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Legislation:

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



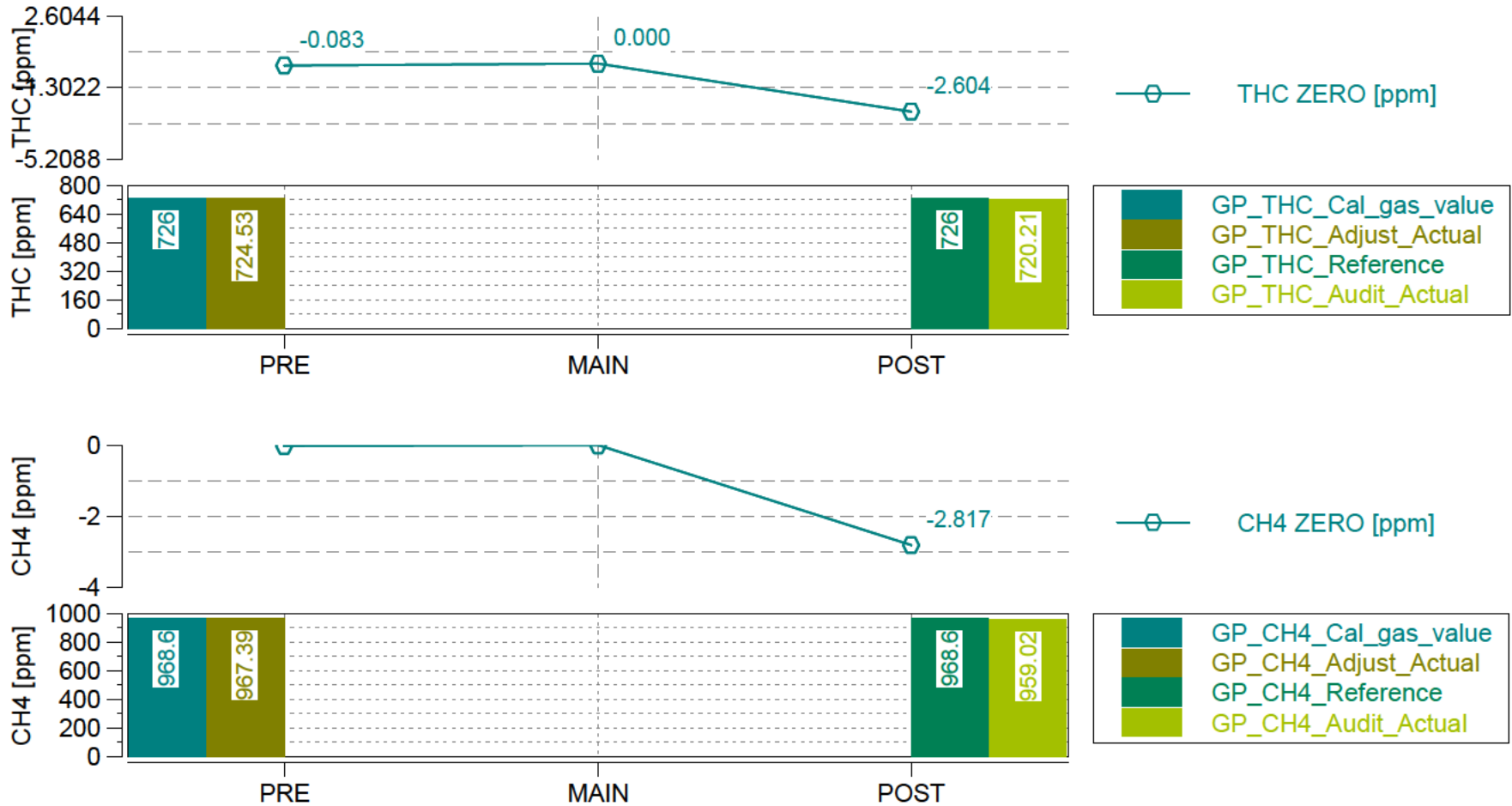
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 Legislation:

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



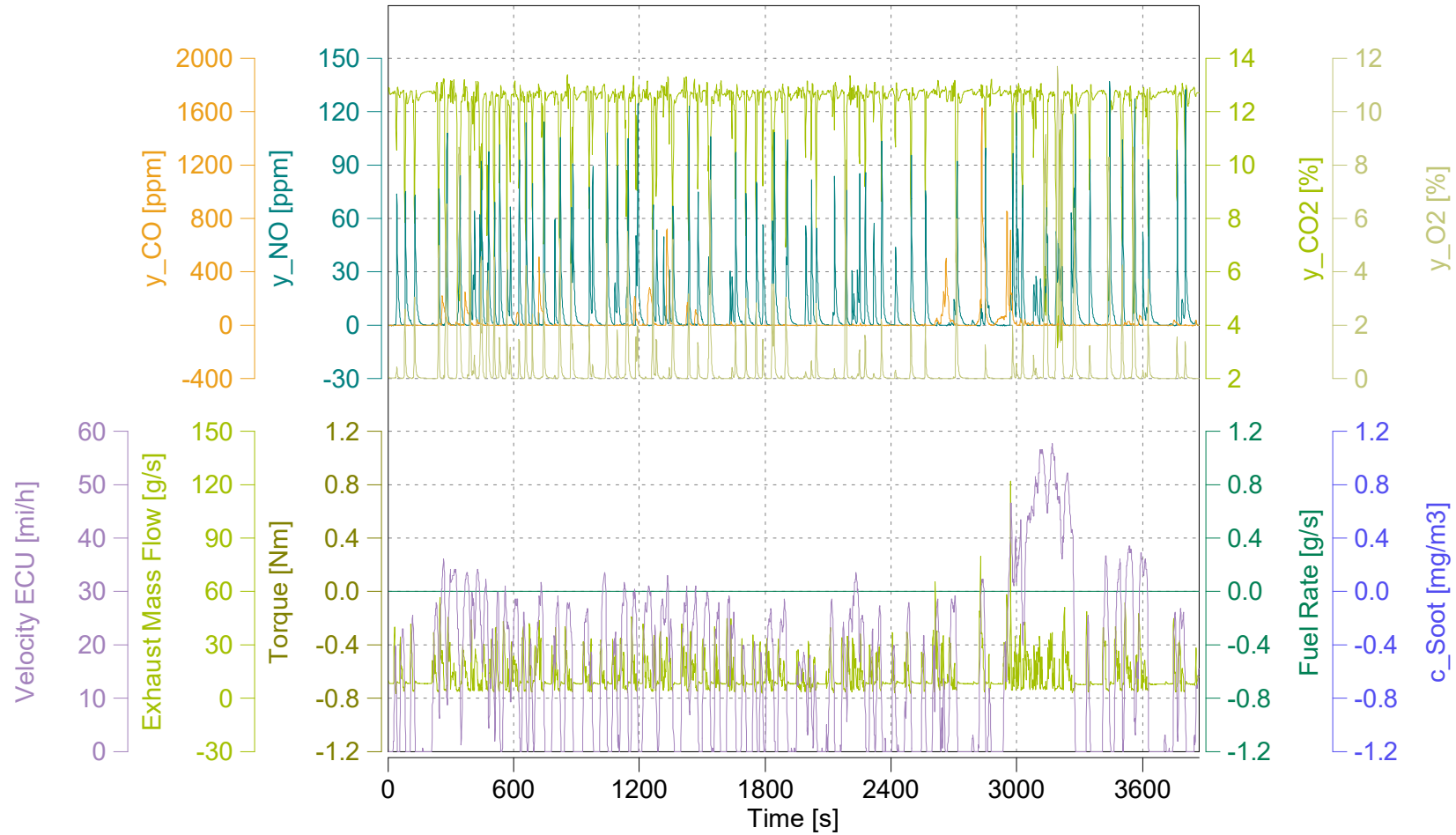
Concerto M.O.V.E., 2019

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

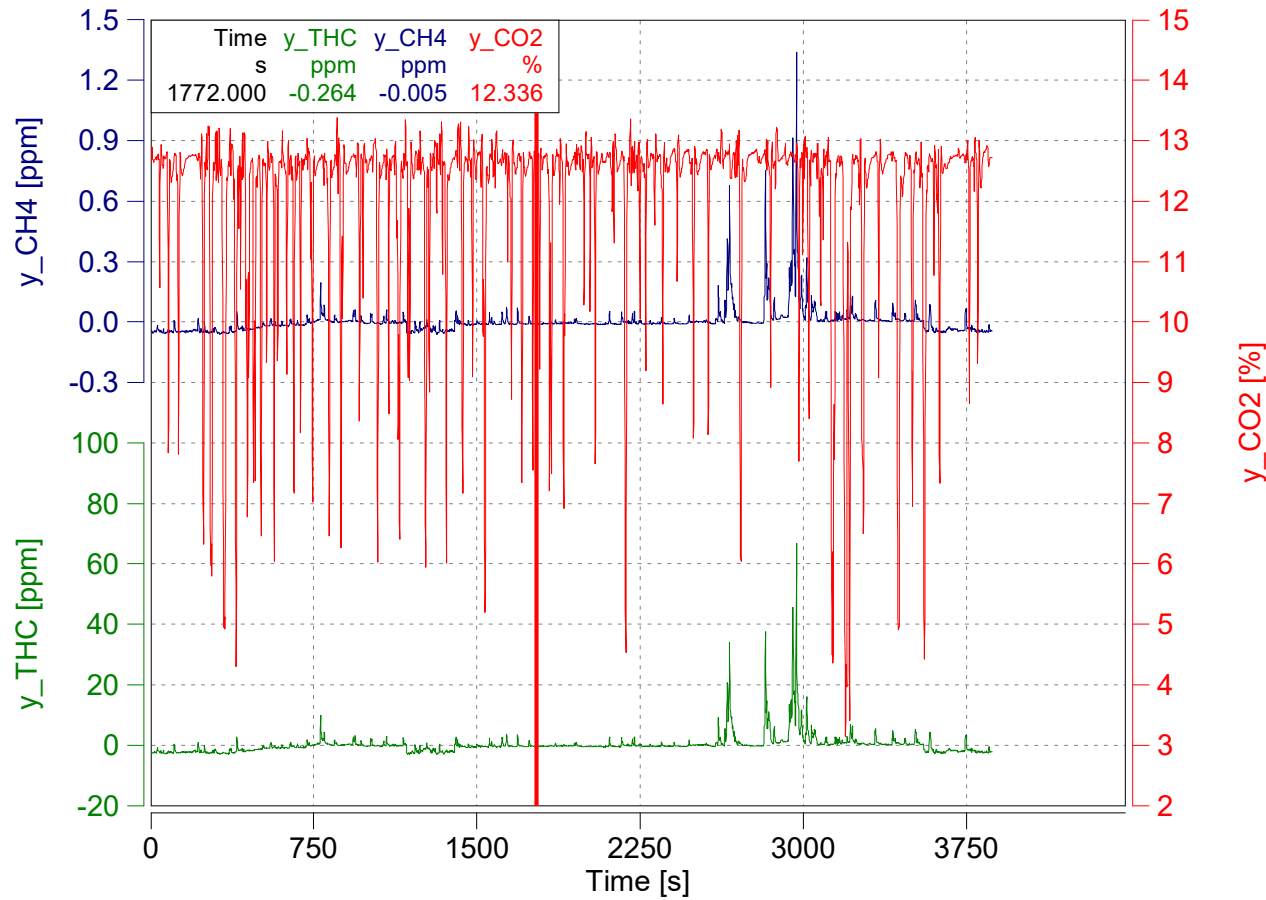
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 Legislation:

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



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

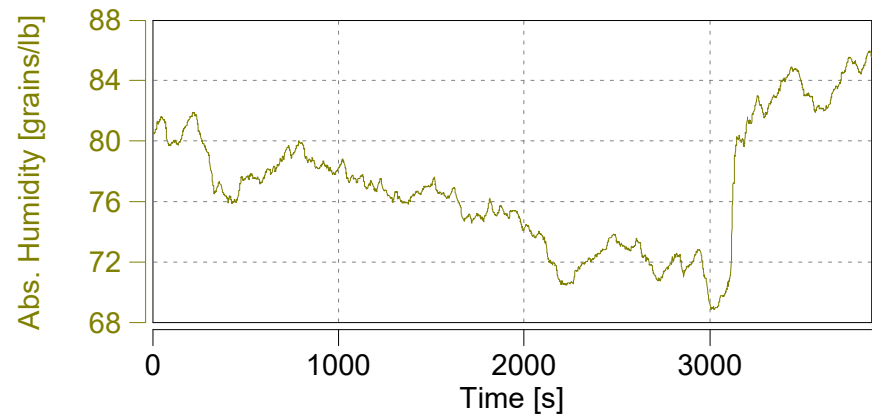
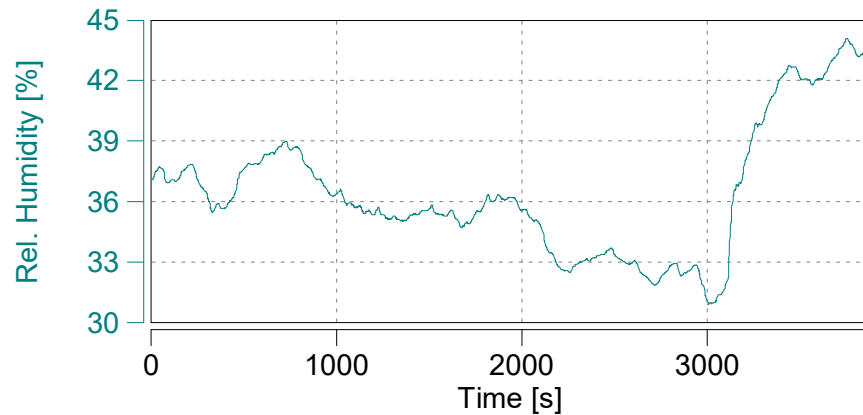
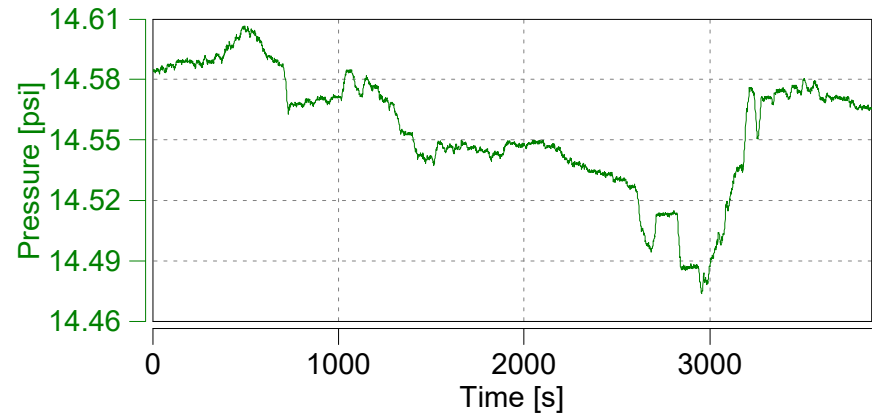
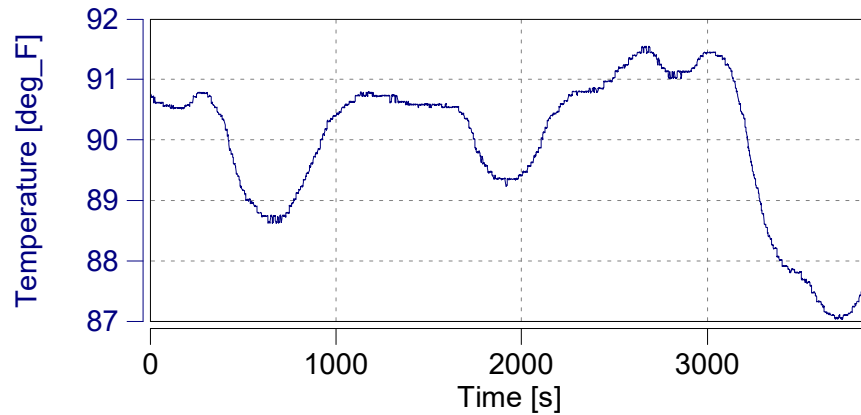
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0

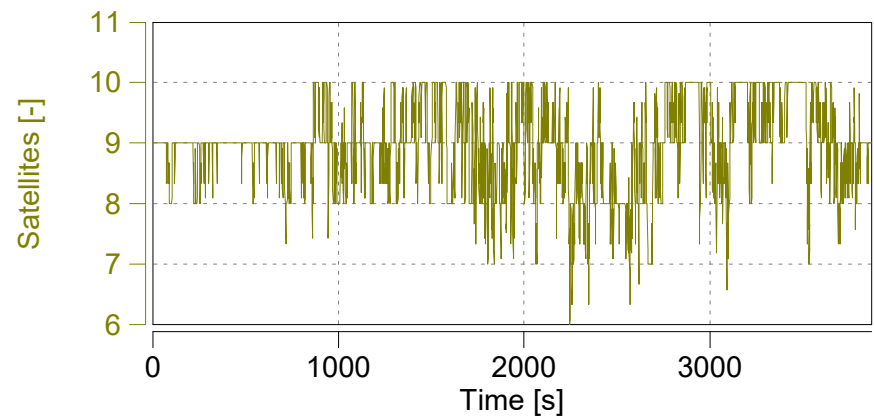
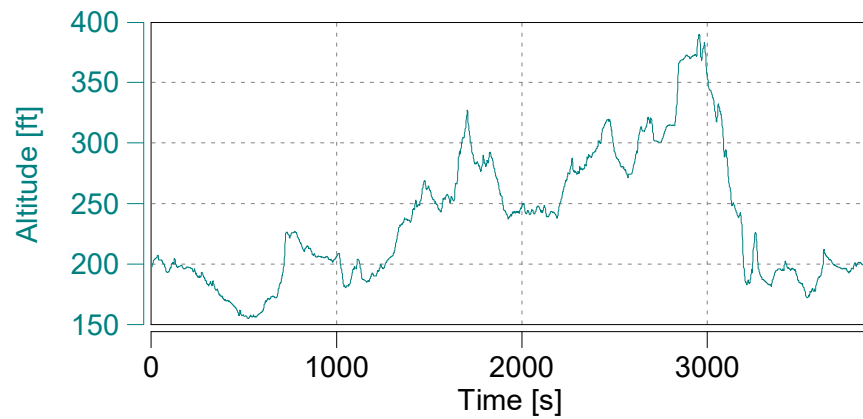
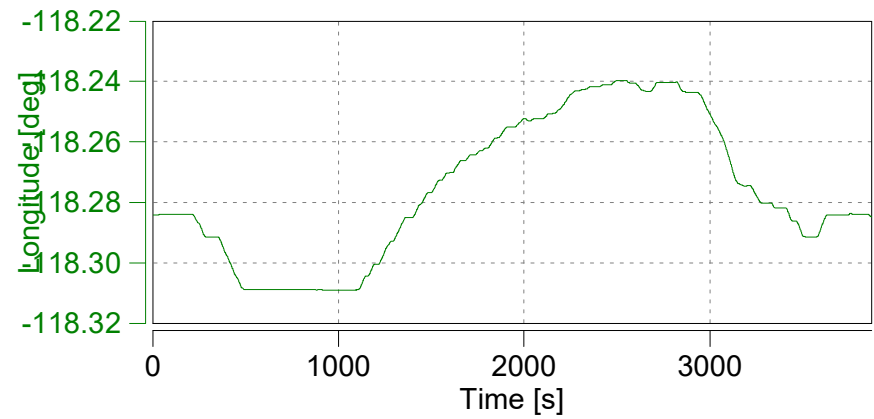
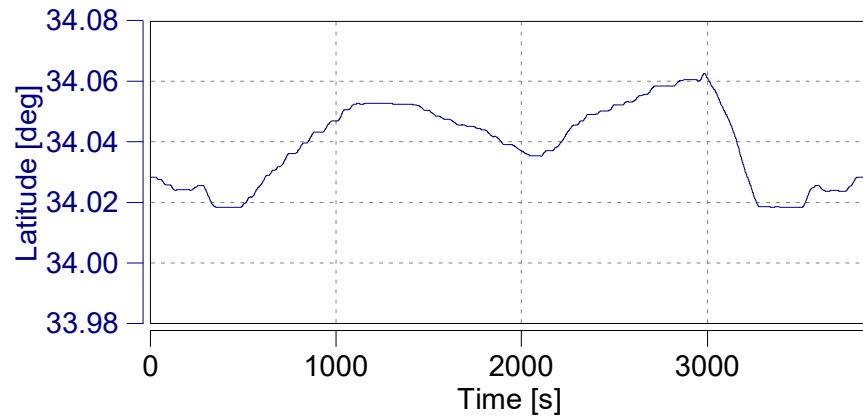


Concerto M.O.V.E., 2019



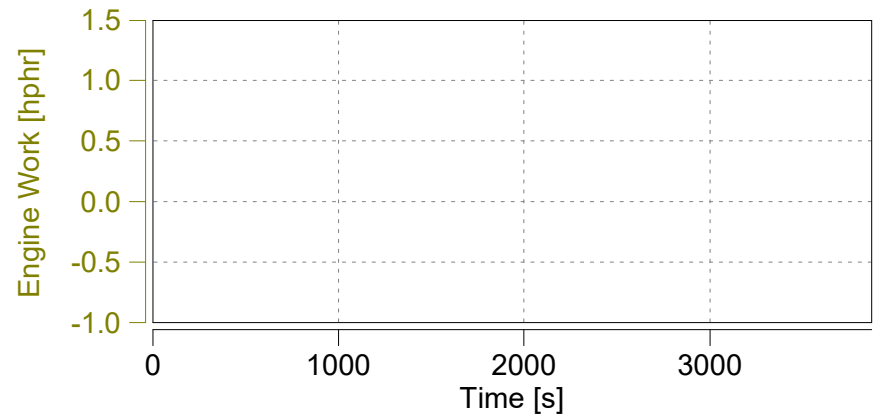
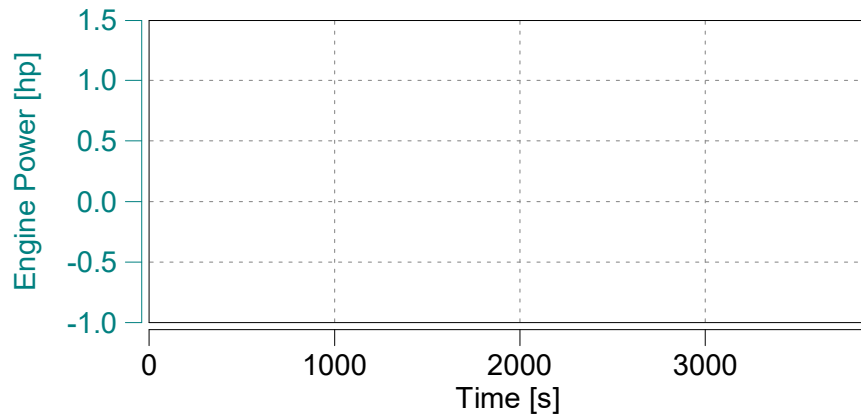
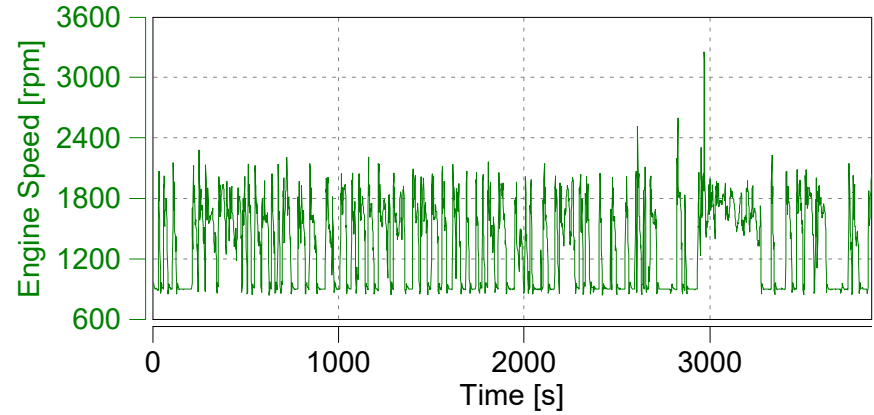
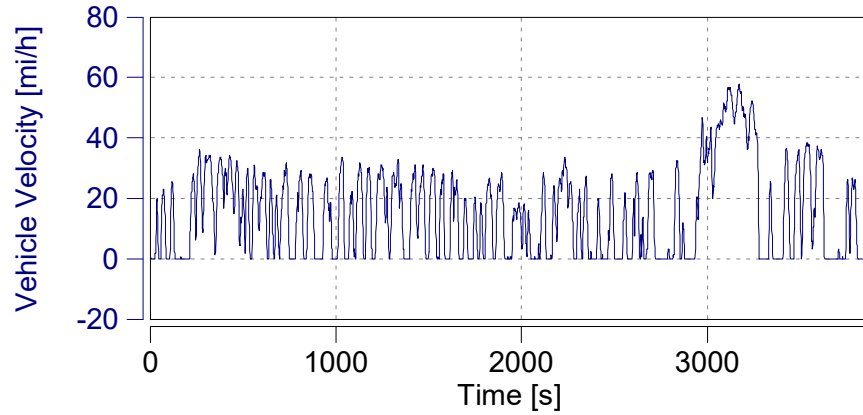
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Legislation:

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



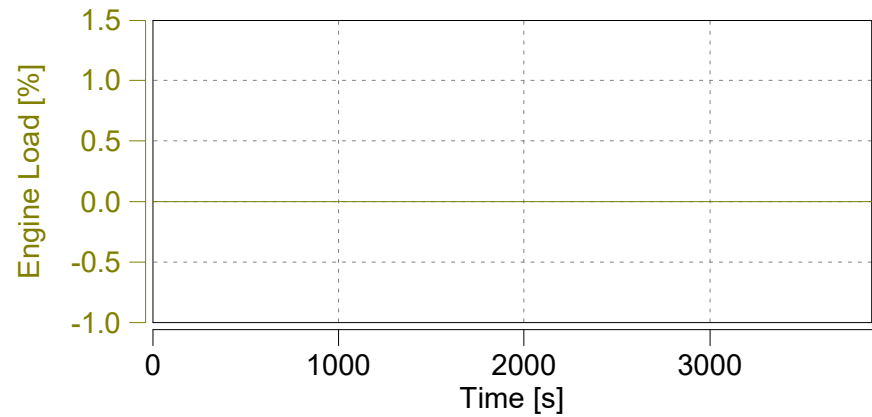
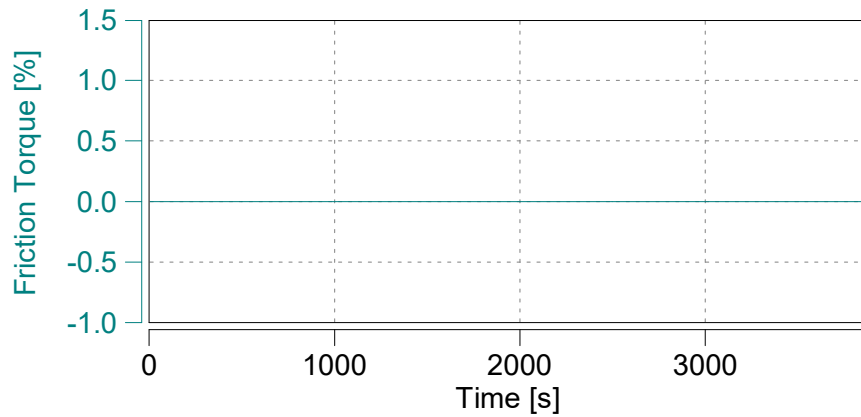
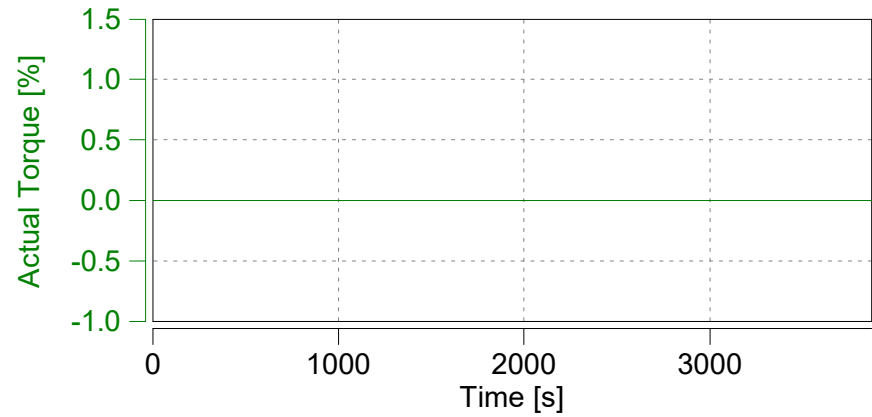
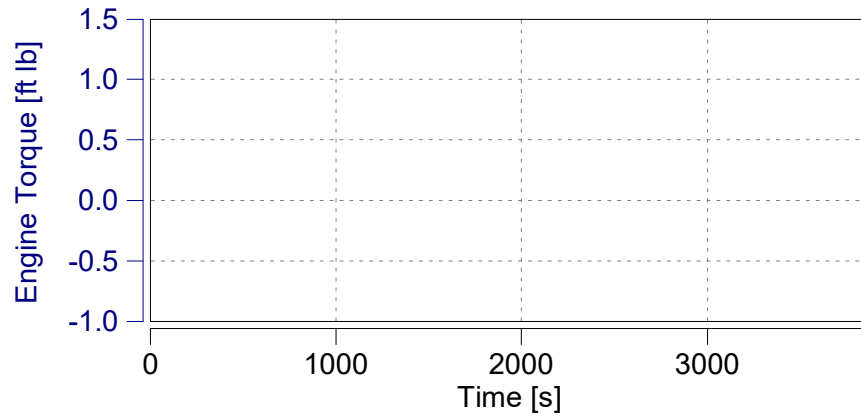
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Legislation:

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



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

Case: City

Page: Engine (3)

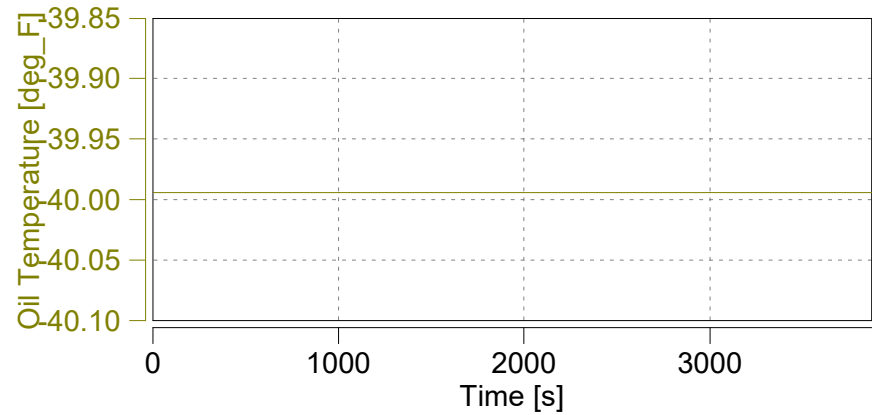
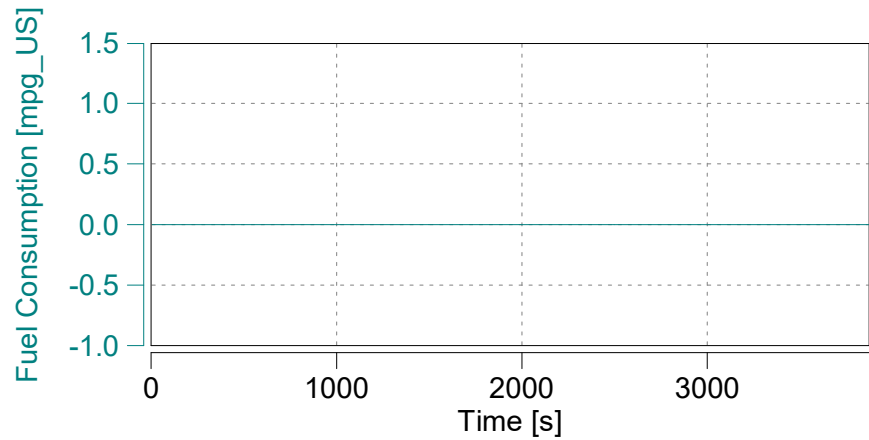
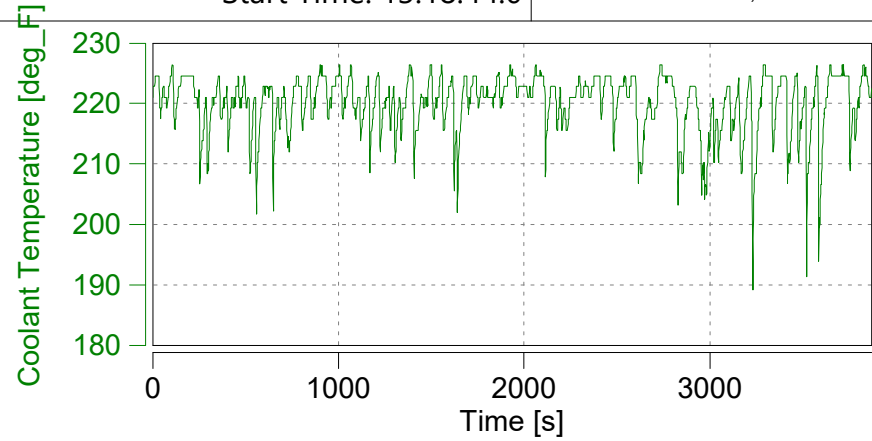
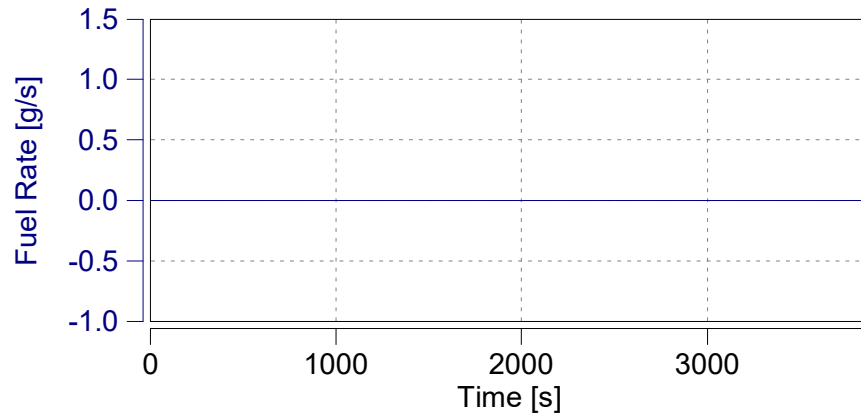
'City'

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)

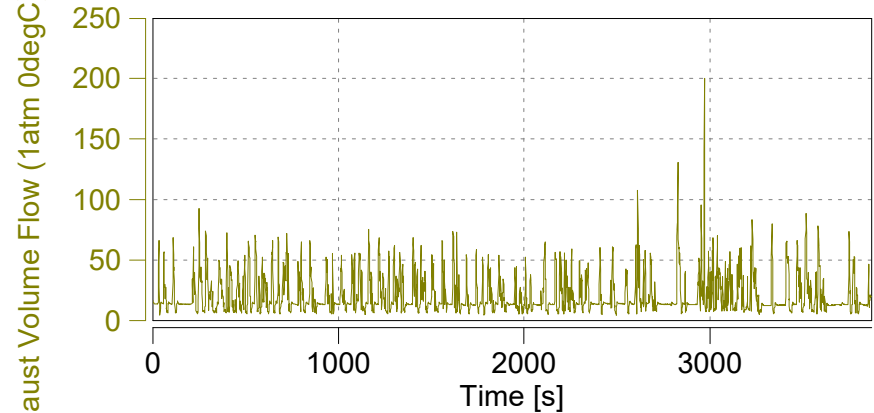
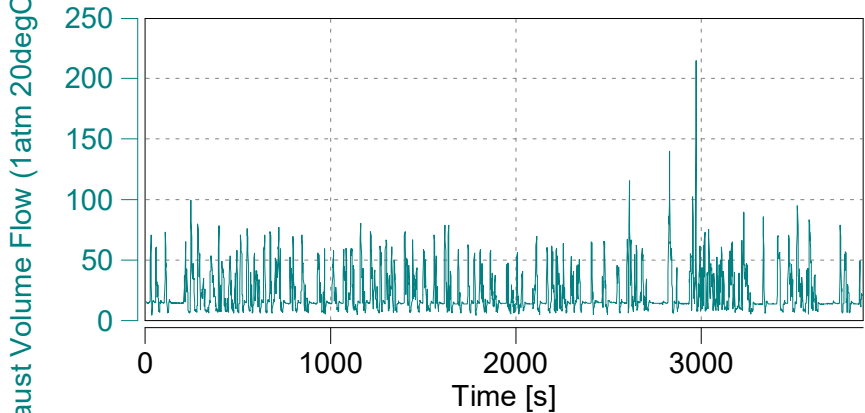
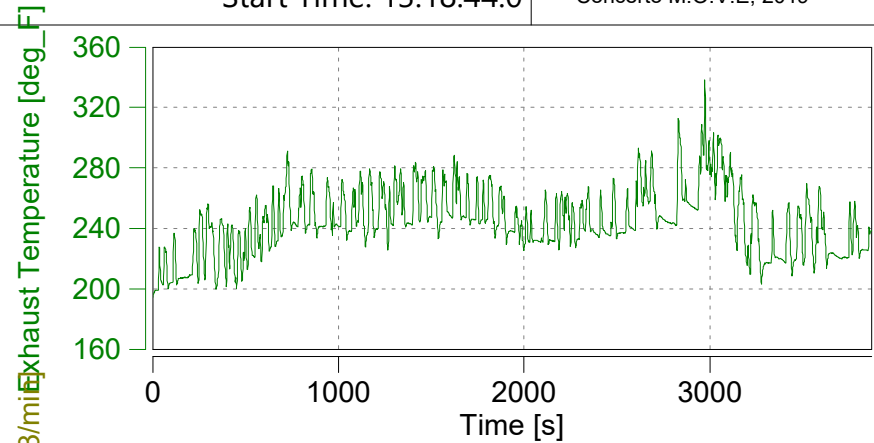
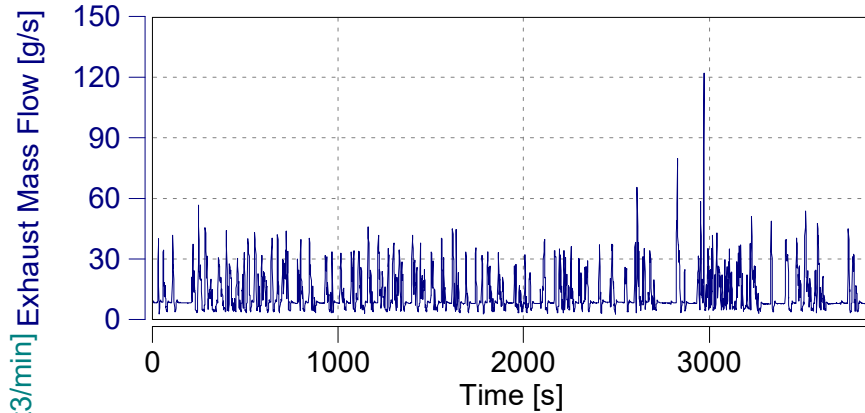
'City'

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)

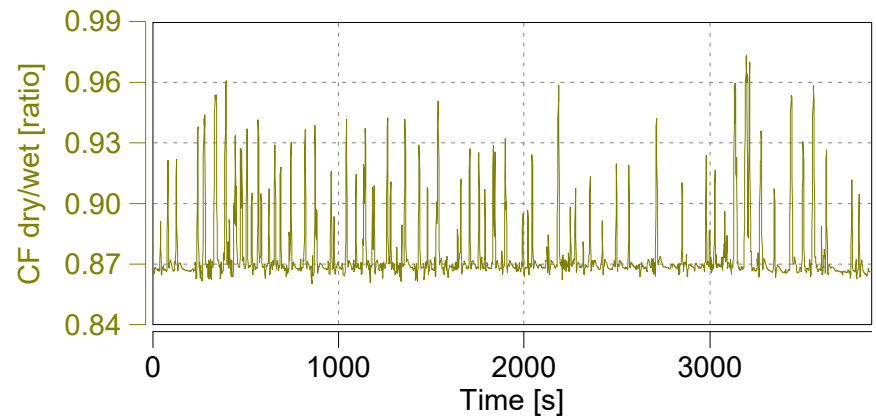
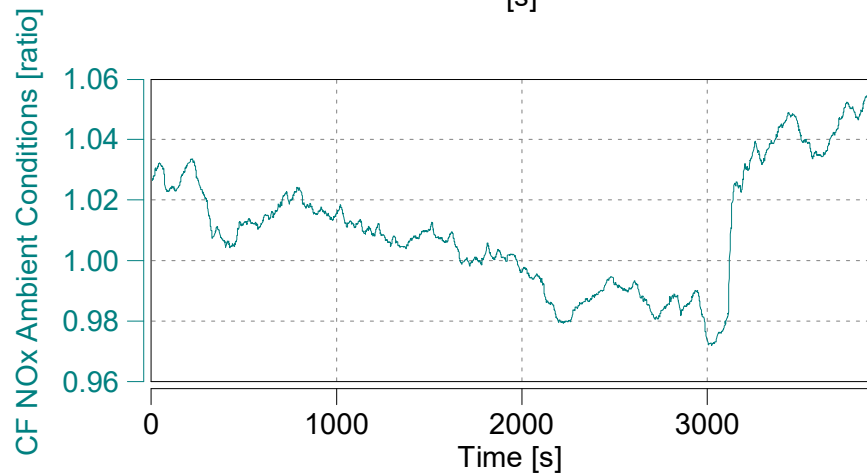
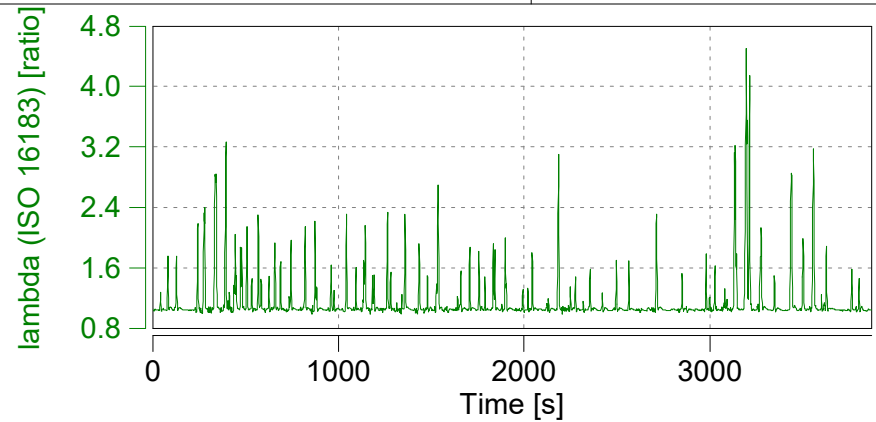
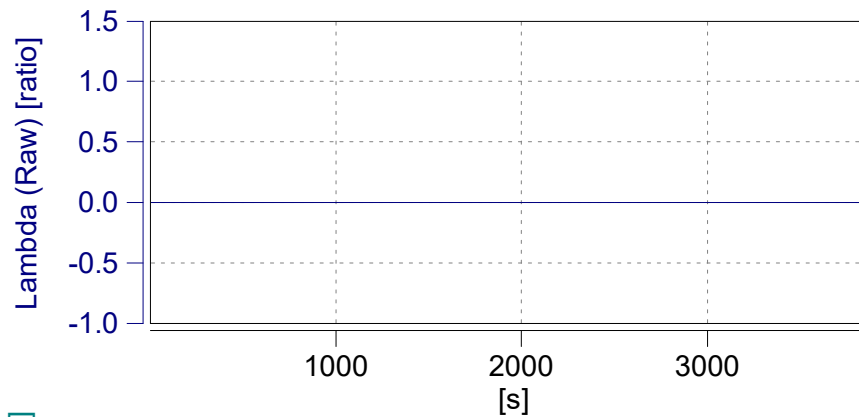
'City'

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)

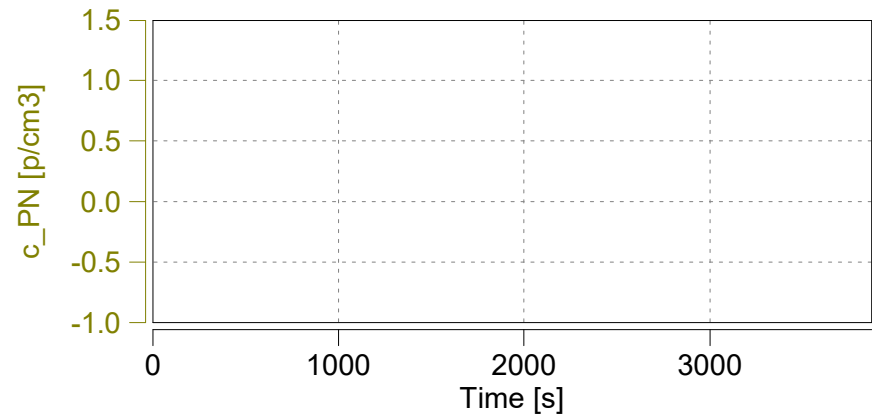
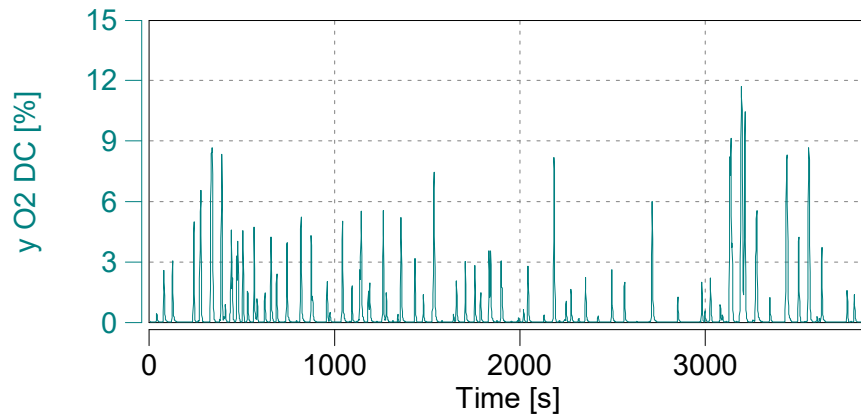
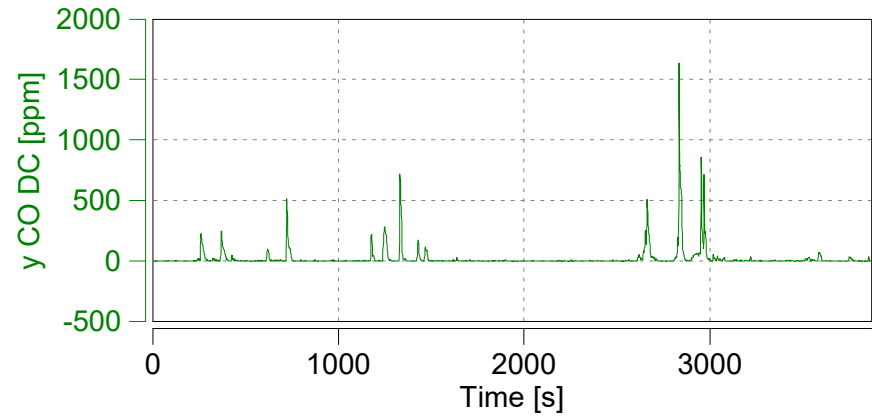
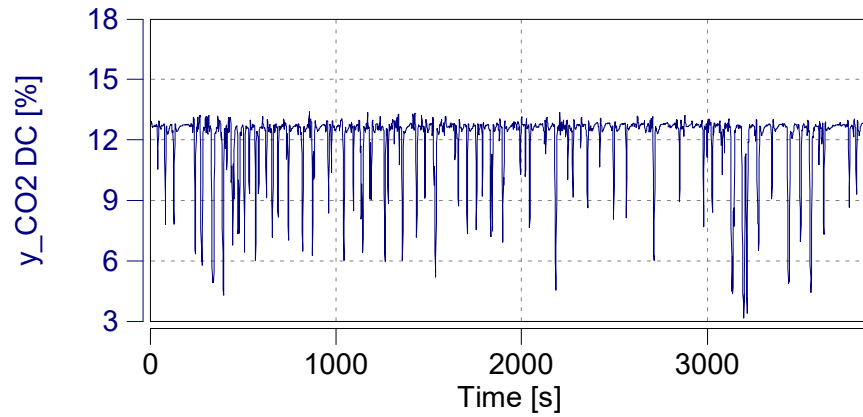
'City'

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)

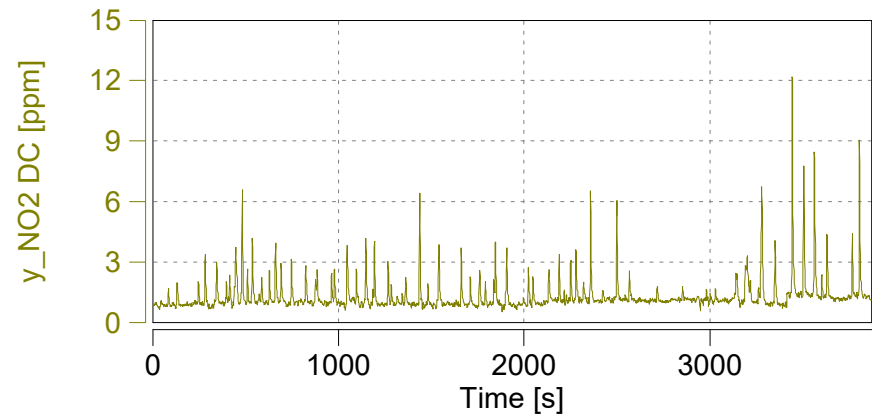
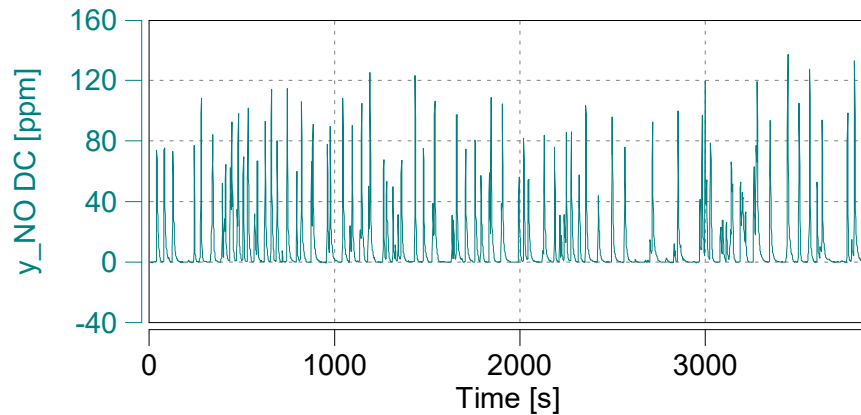
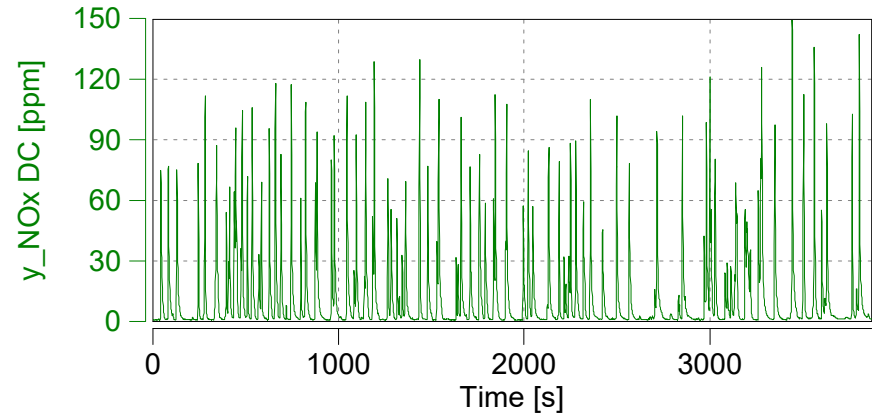
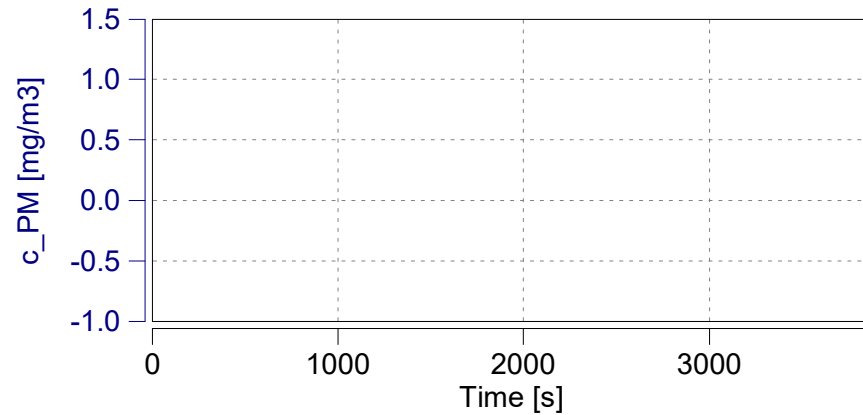
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0

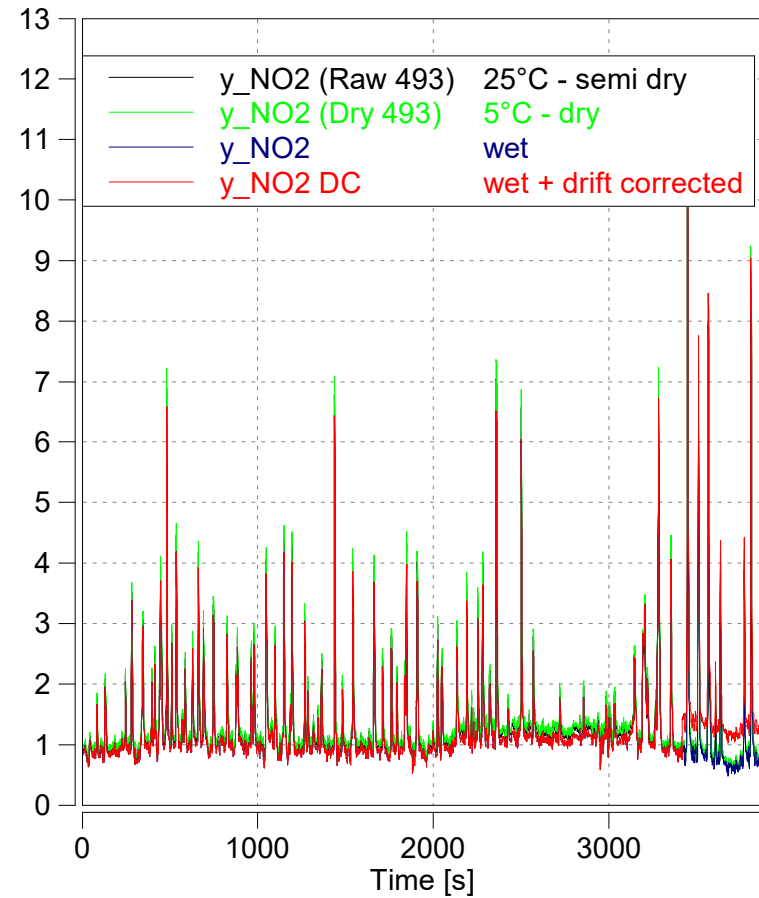
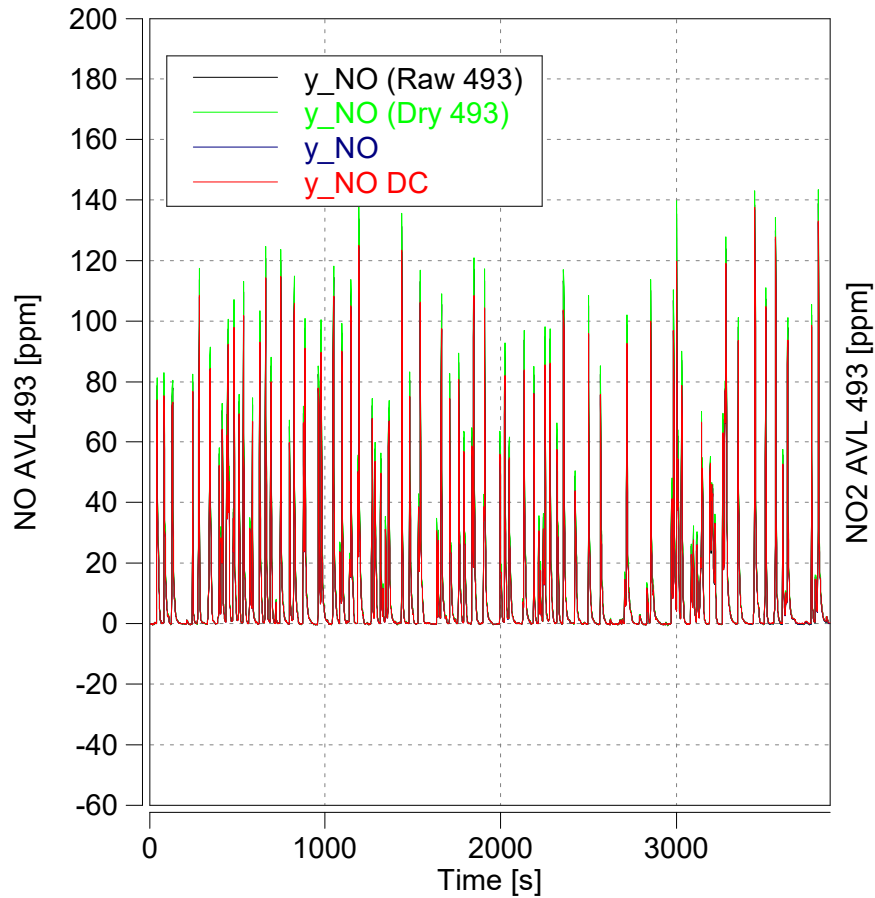


Concerto M.O.V.E., 2019



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

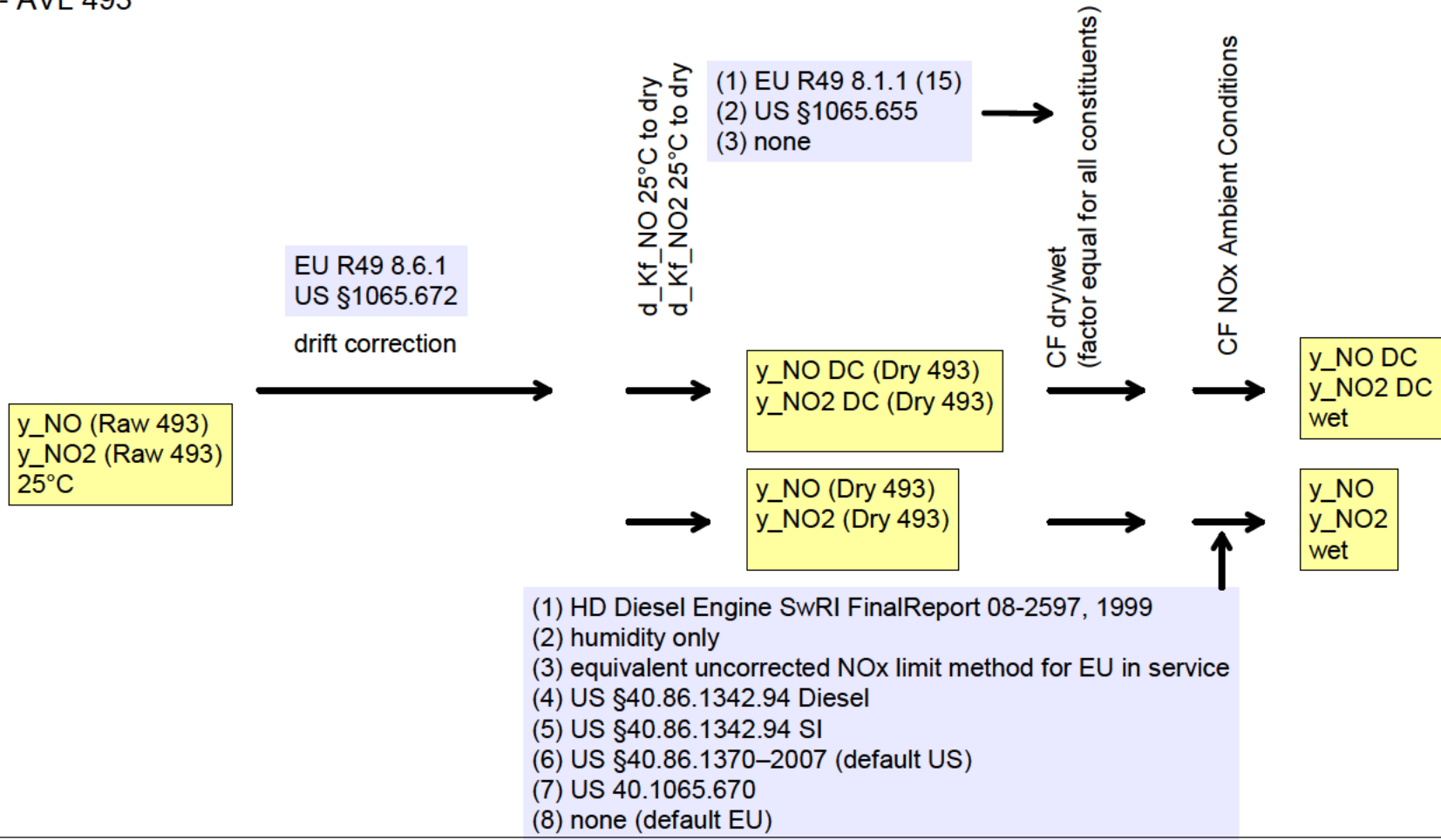


Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

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



Case: City

Page: Corrected Emissions (5)

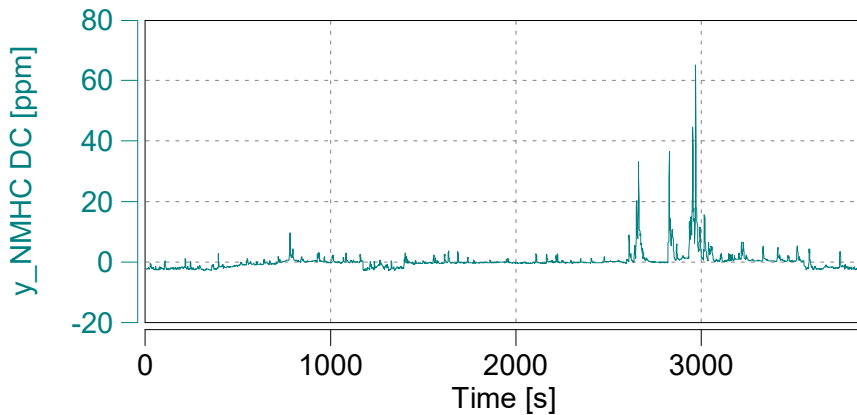
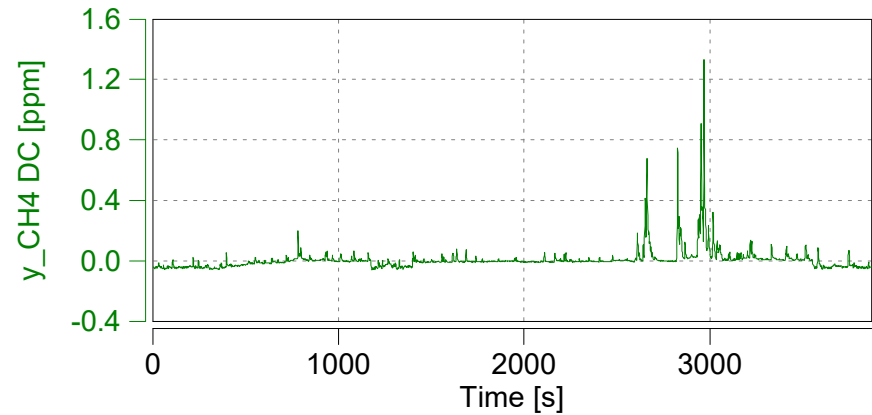
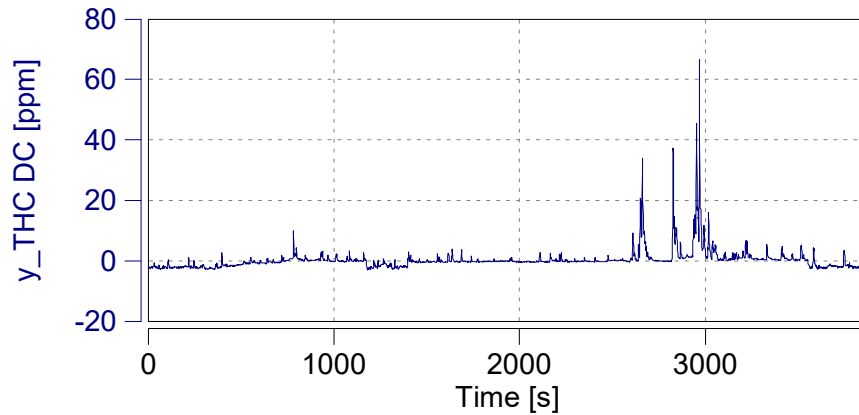
'City'

Start Date: 09/23/2019

Start Time: 13:18:44.0

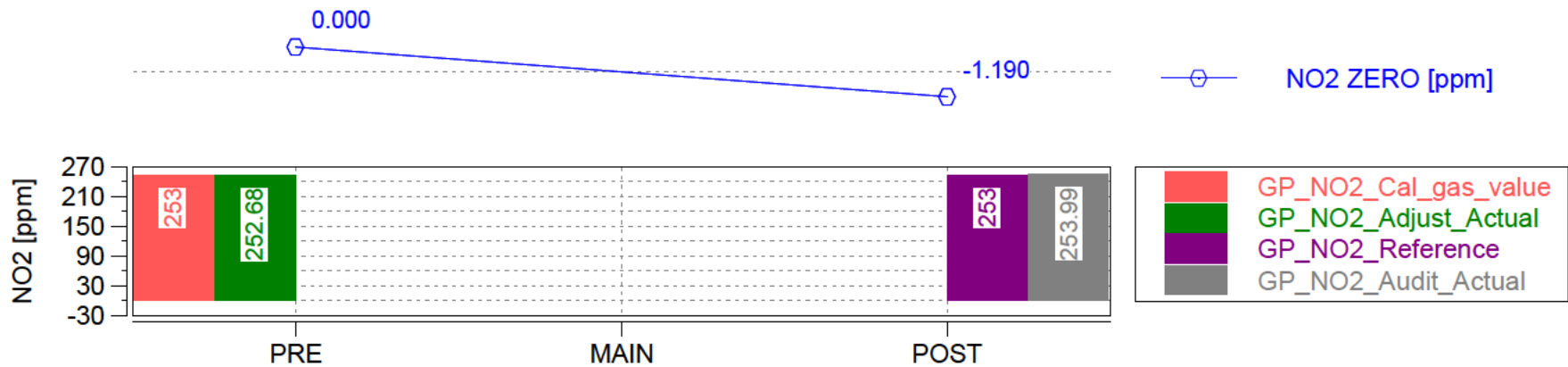
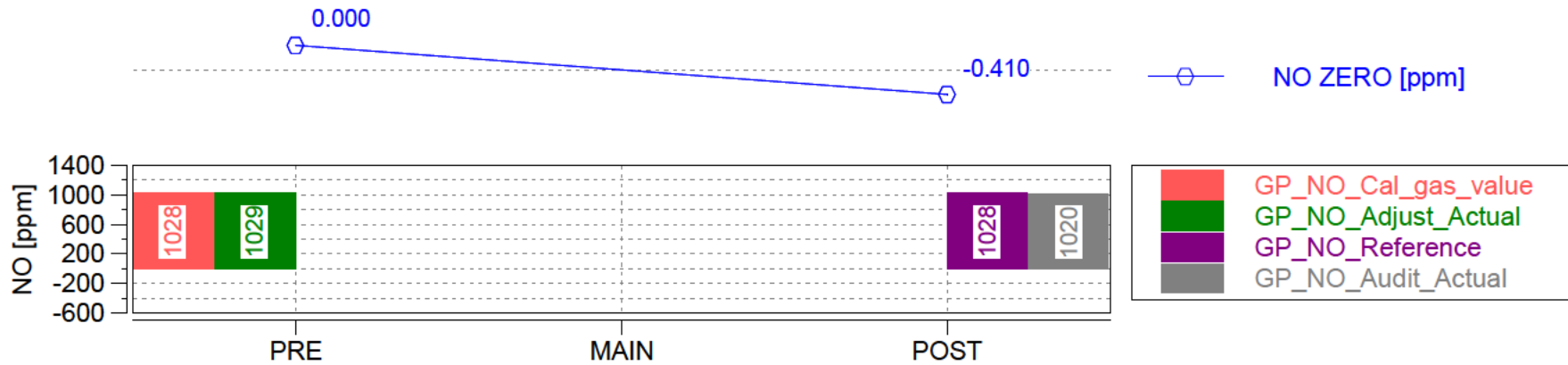


Concerto M.O.V.E., 2019



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

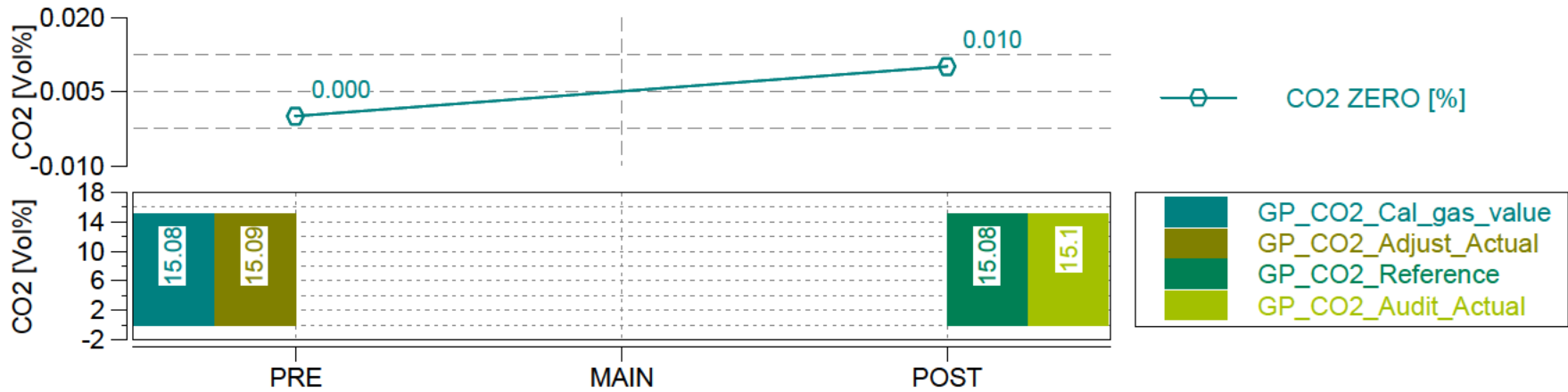
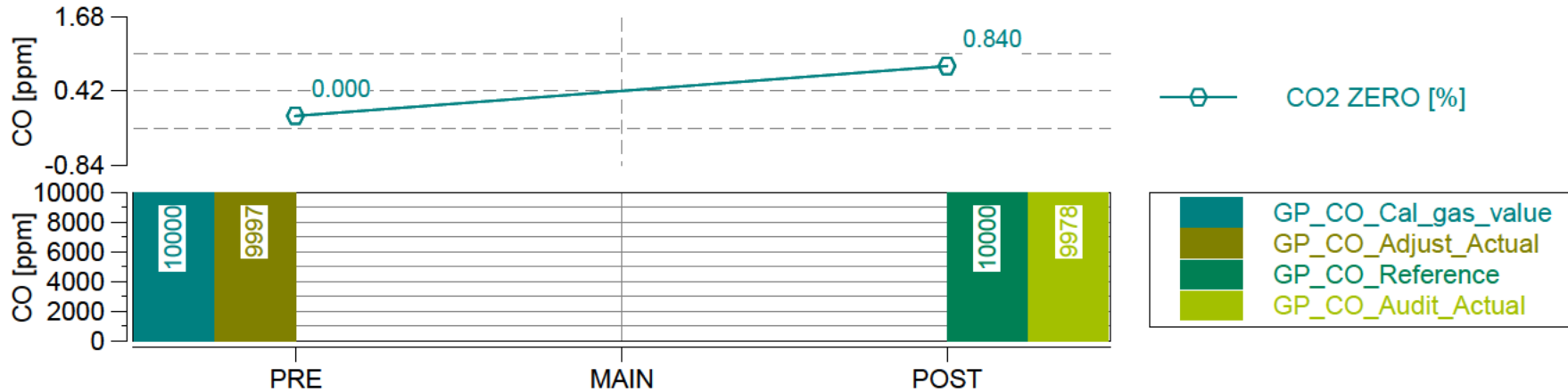
'City'

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\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: THC/CH4 Zero - Span

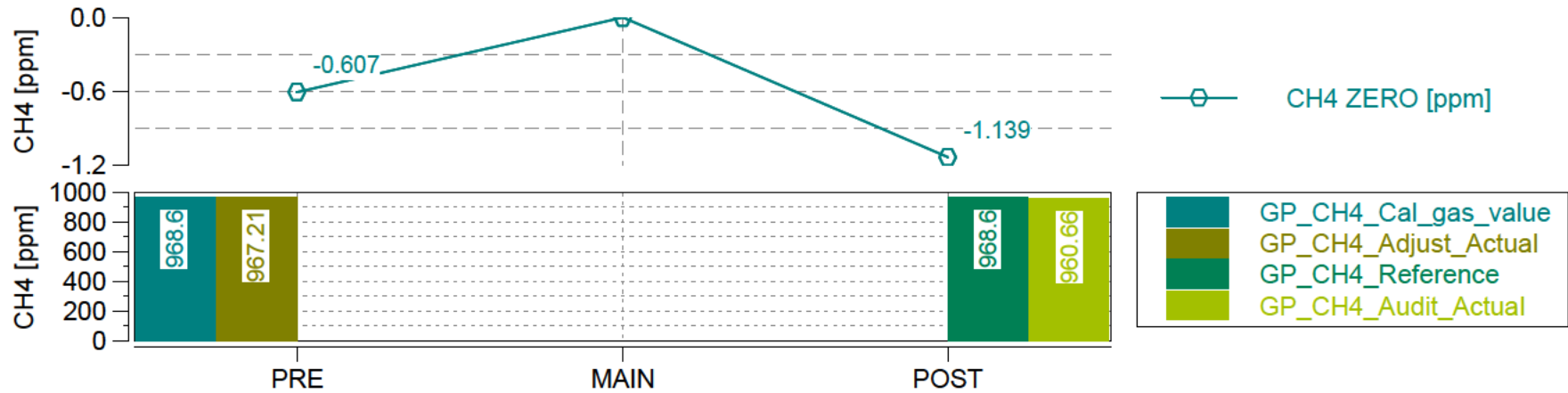
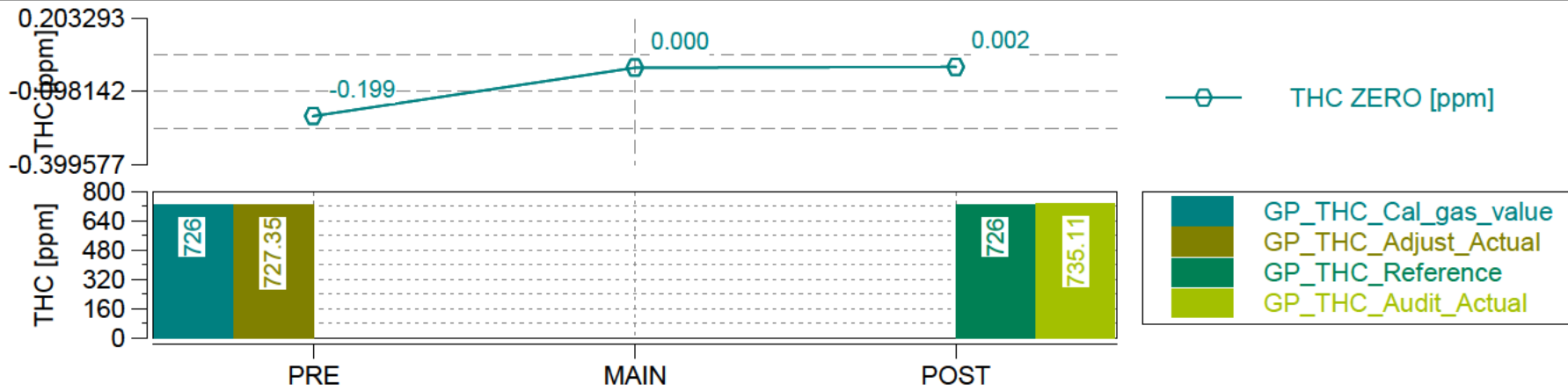
'City'

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



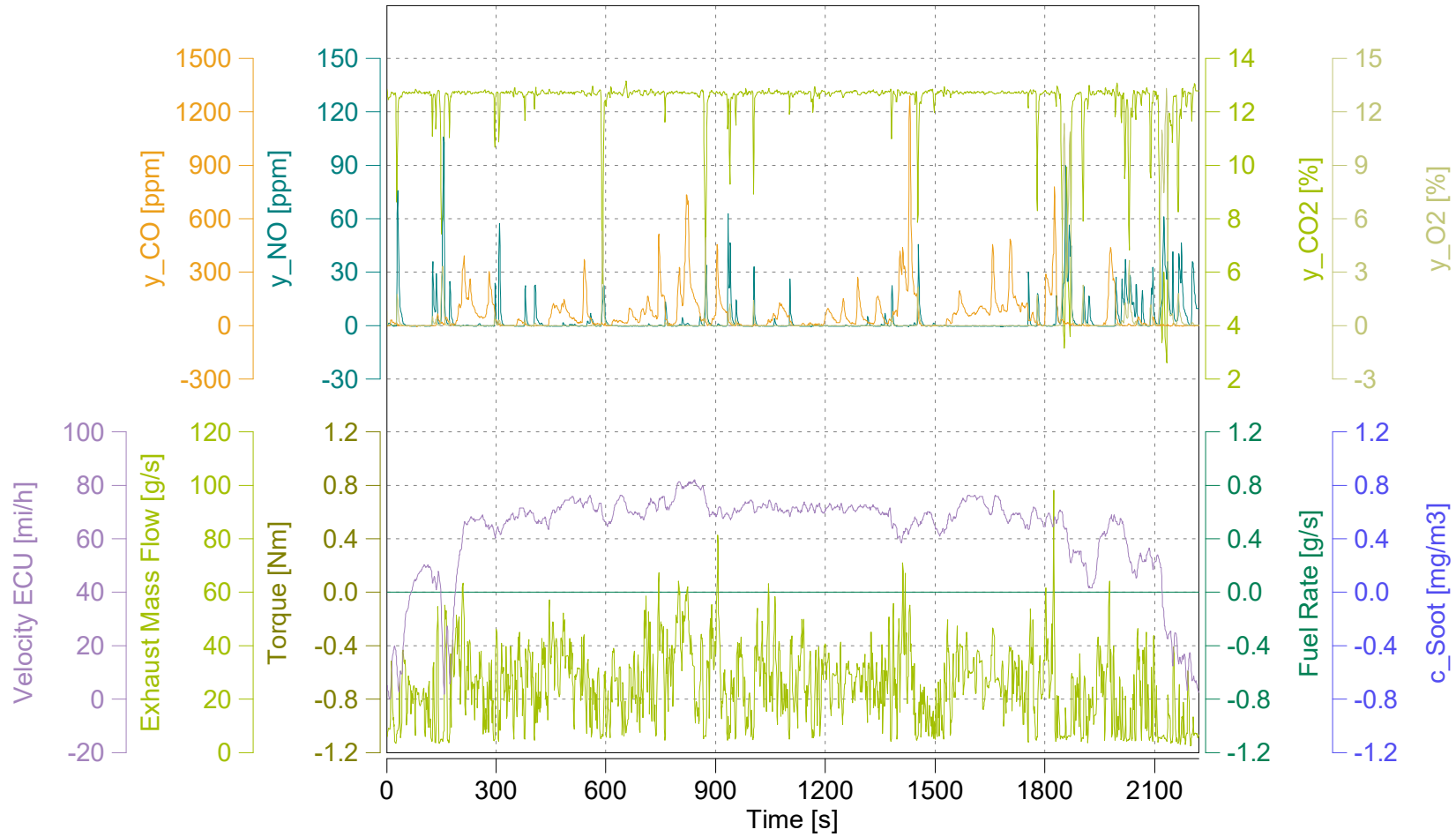
Concerto M.O.V.E., 2019

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

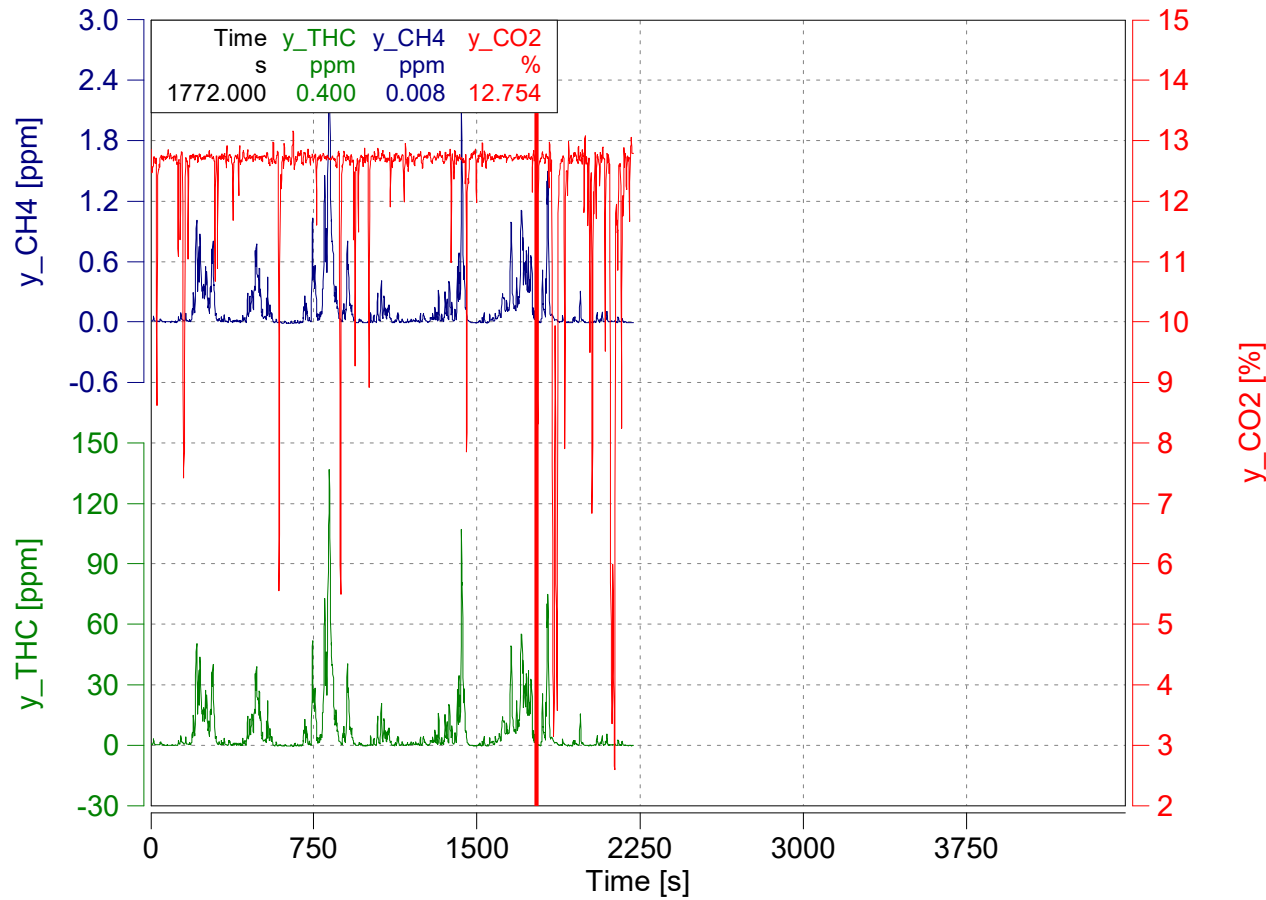
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 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

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

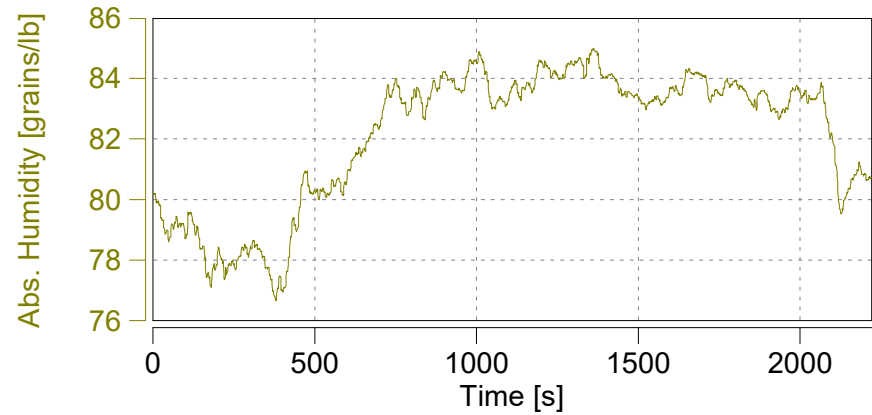
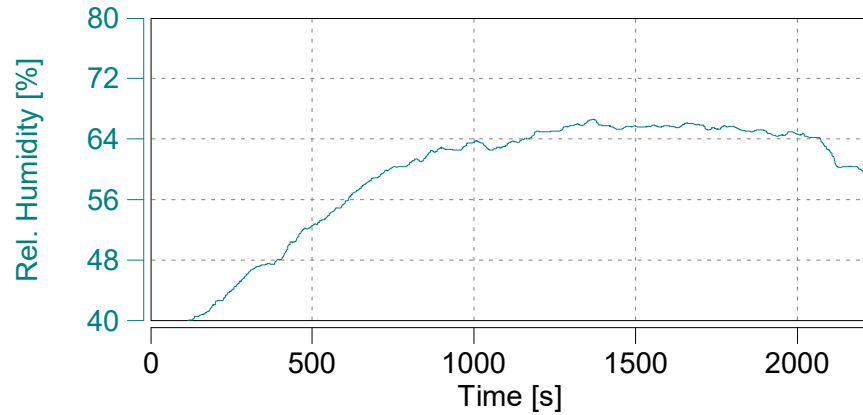
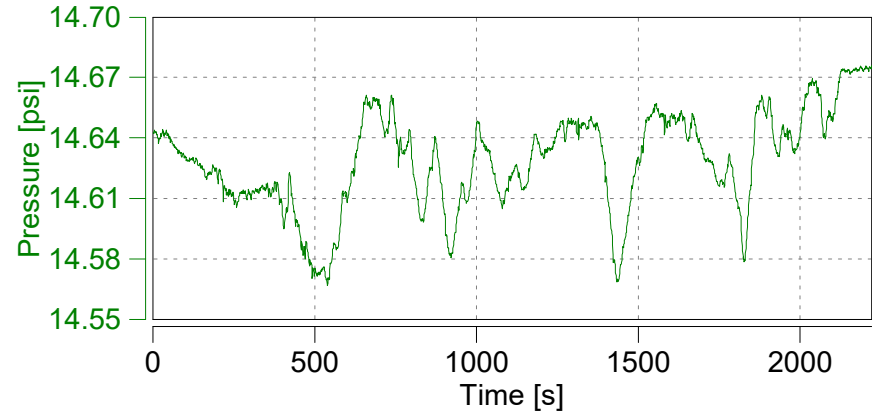
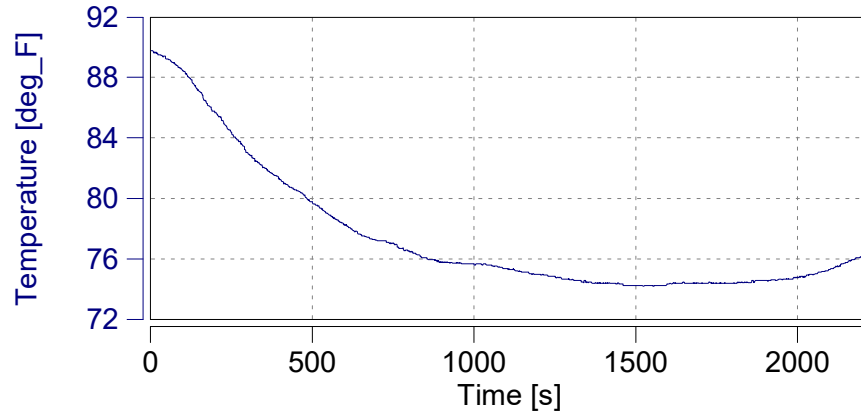
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

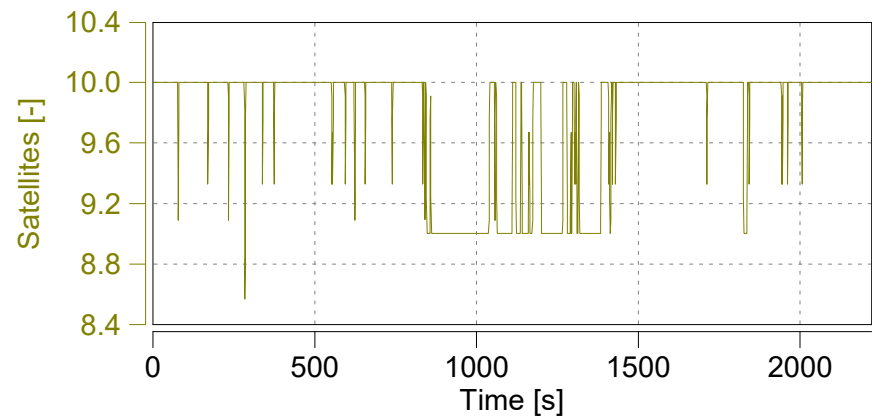
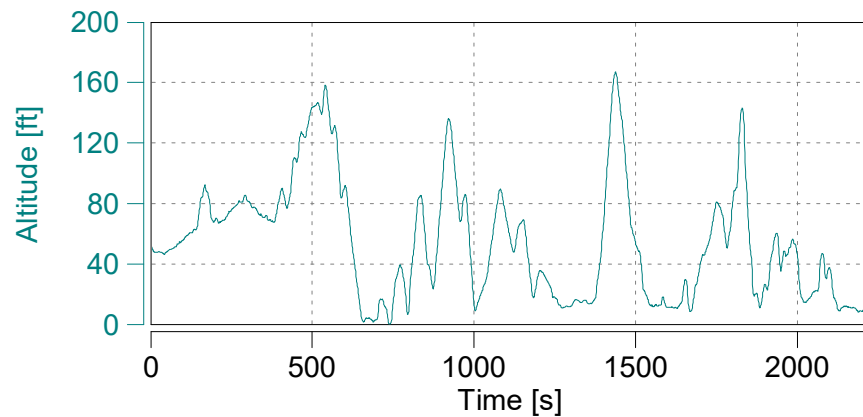
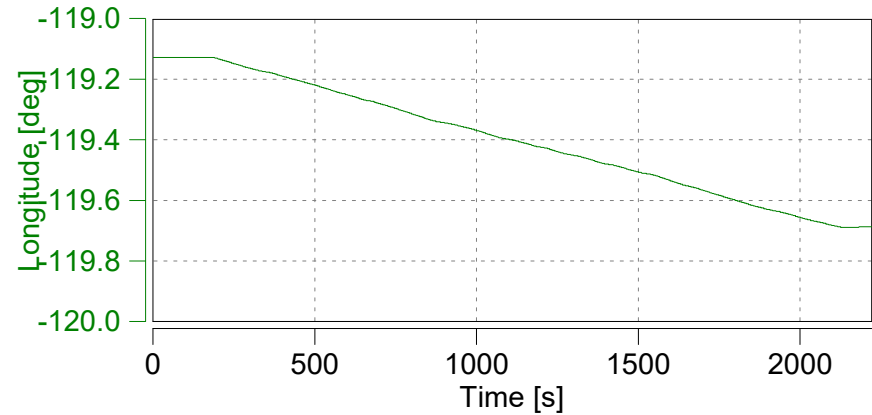
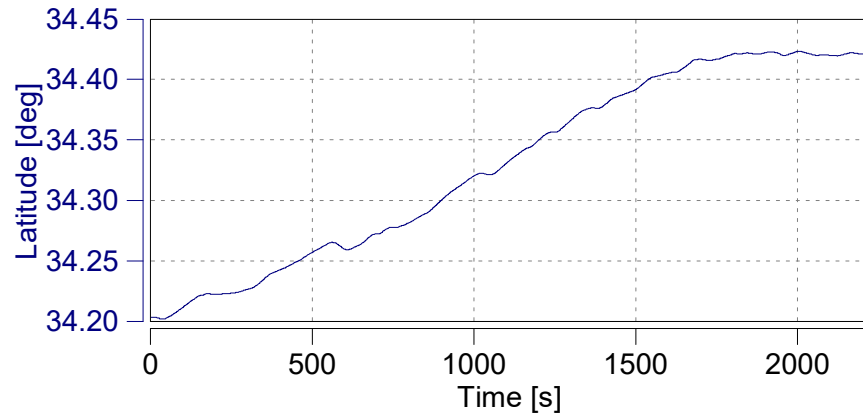
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 Legislation:

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



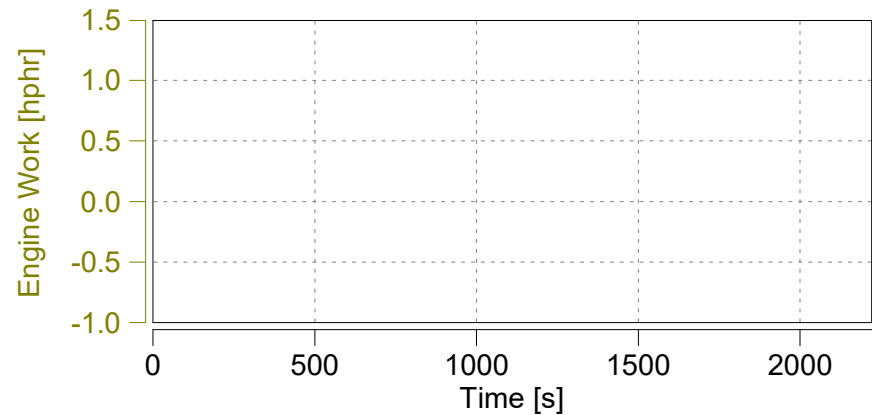
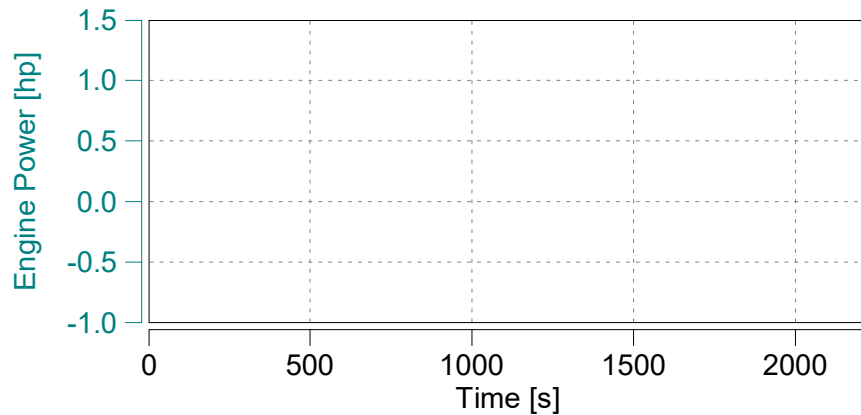
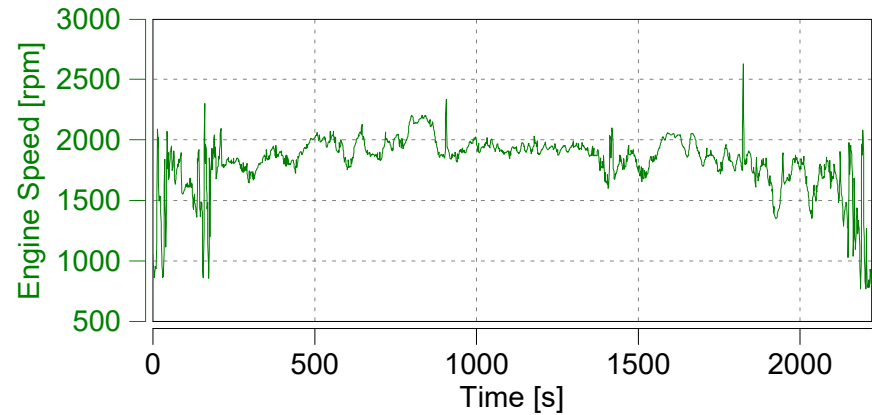
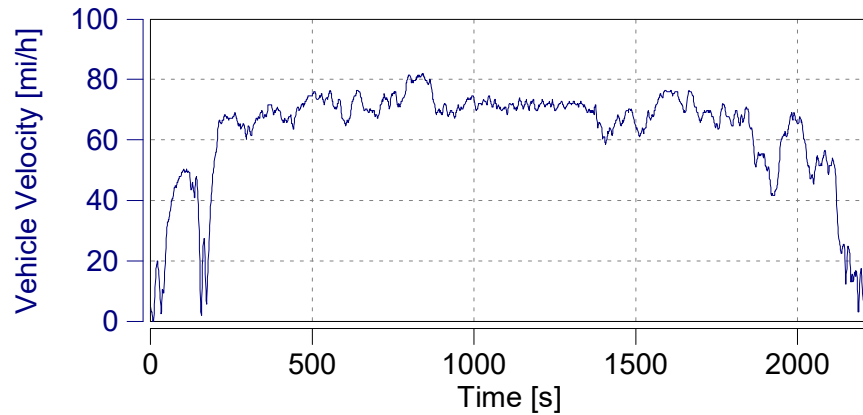
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Legislation:

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



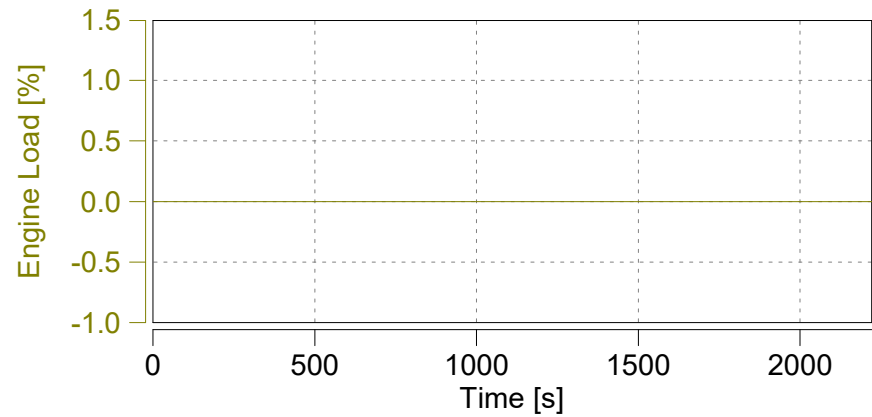
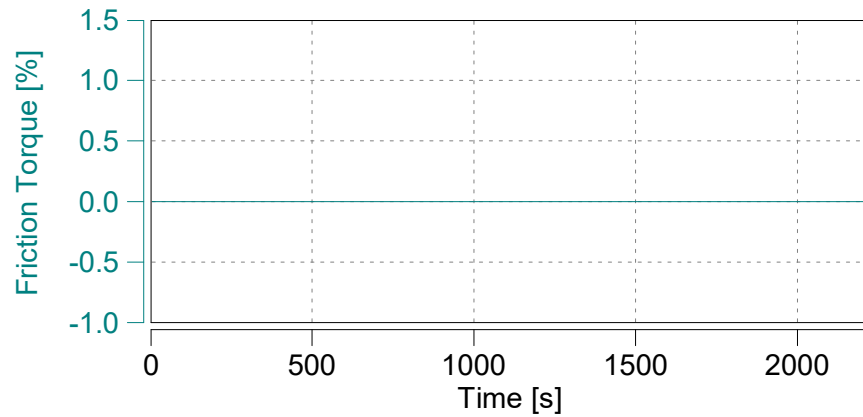
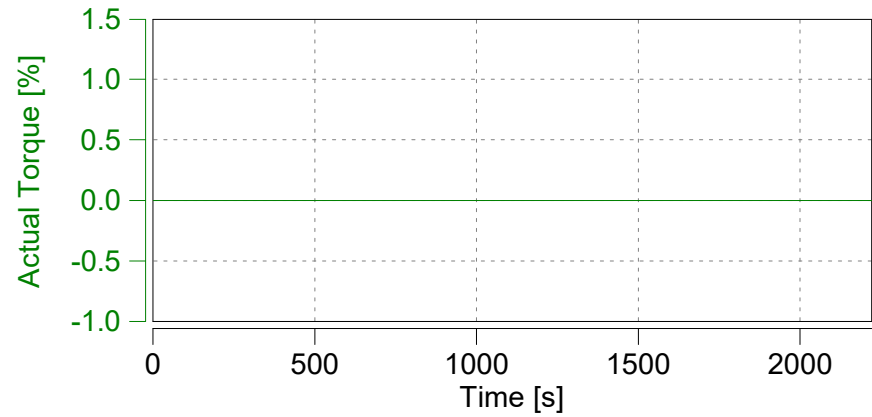
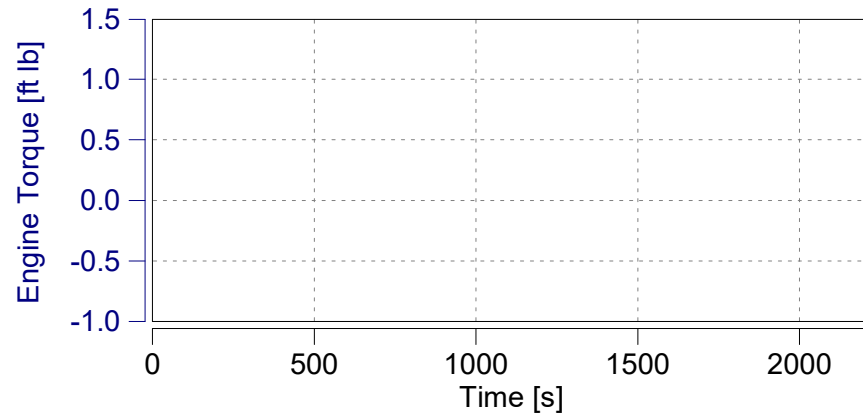
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Legislation:

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



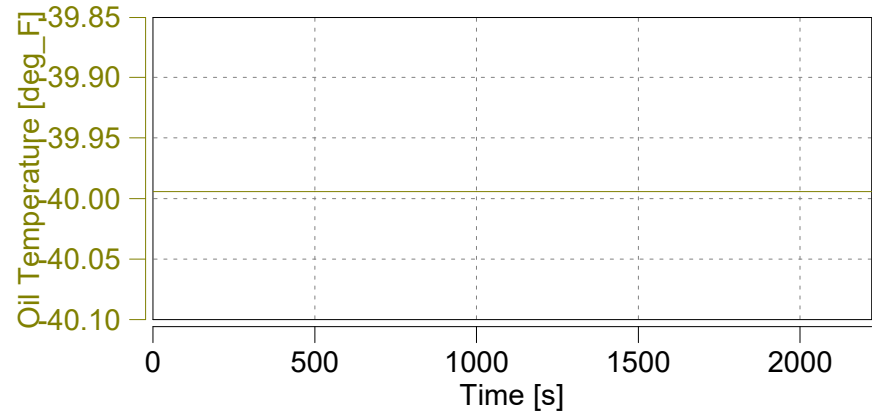
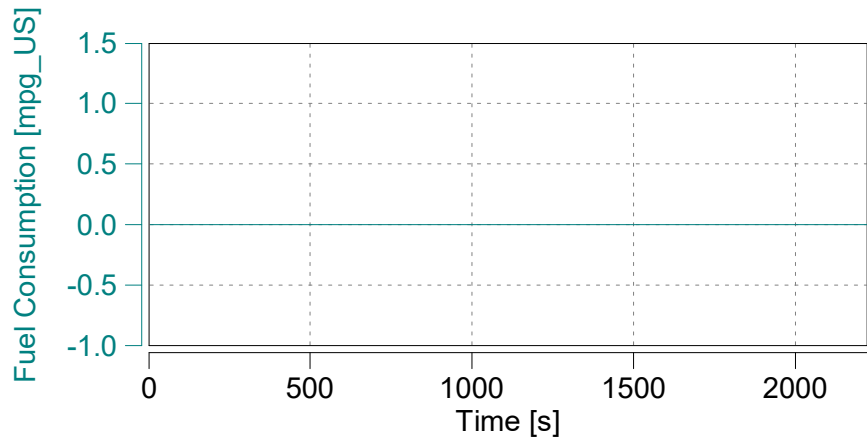
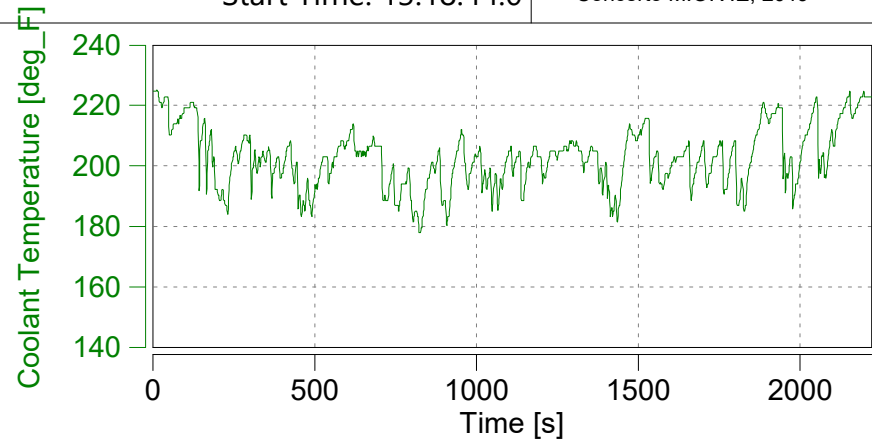
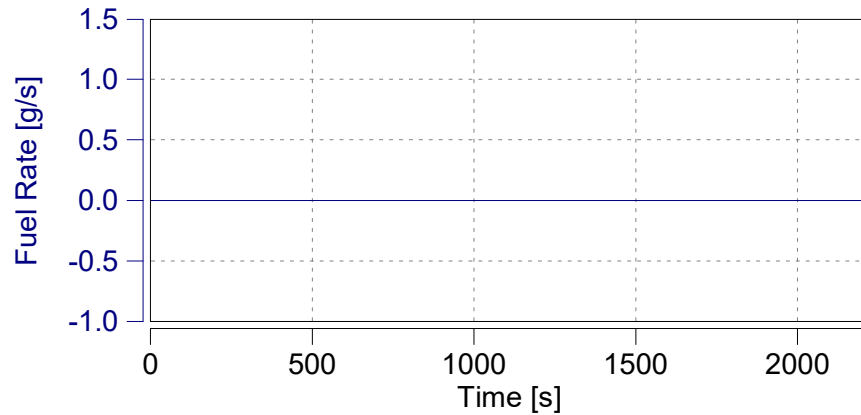
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M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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: Highway

Page: Exhaust Flow (1)

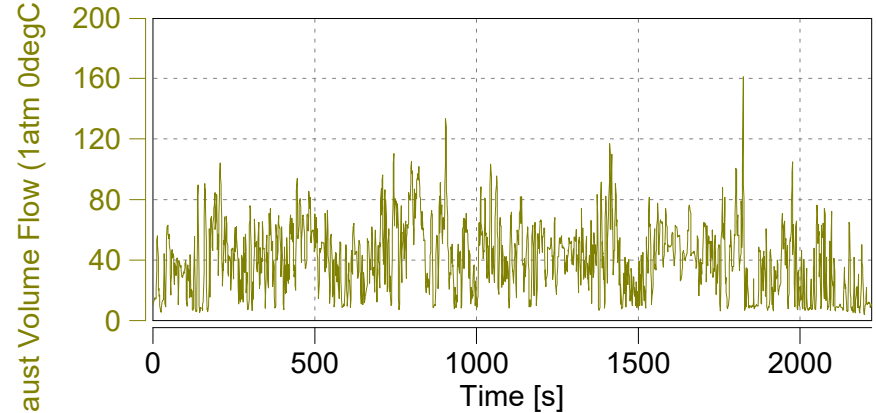
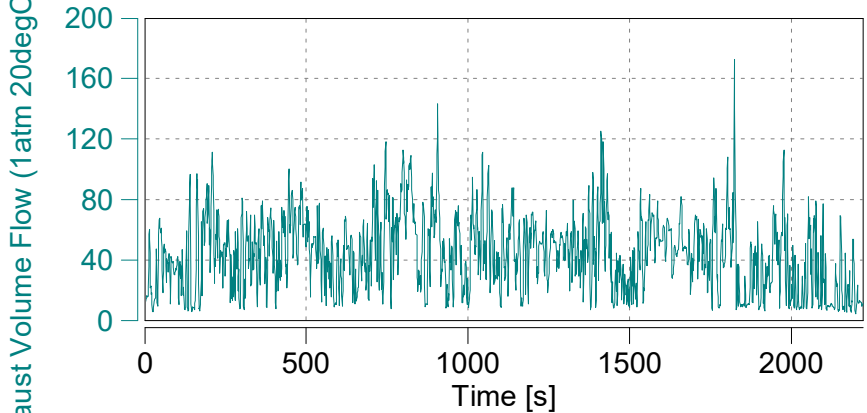
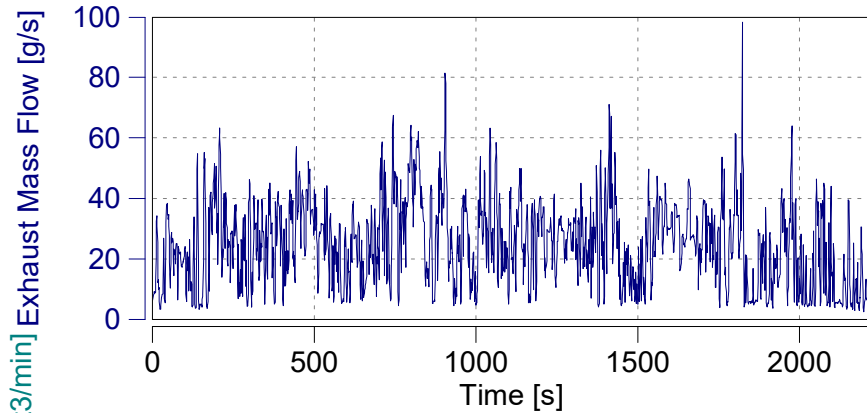
'Highway'

Start Date: 09/23/2019

Start Time: 13:18:44.0

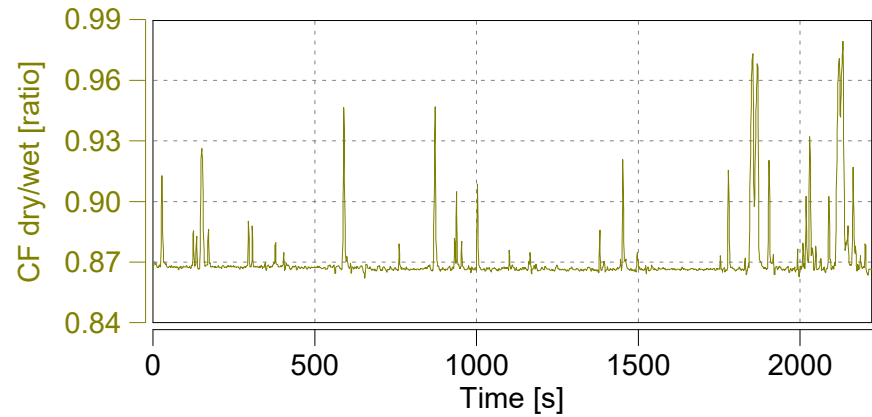
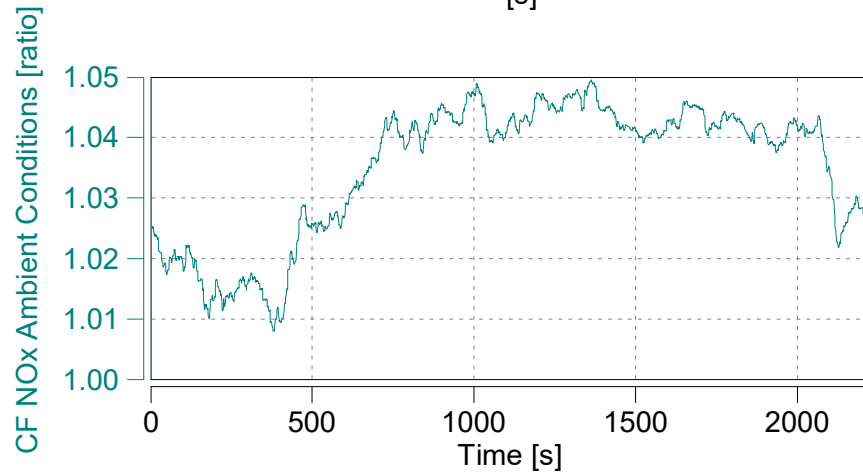
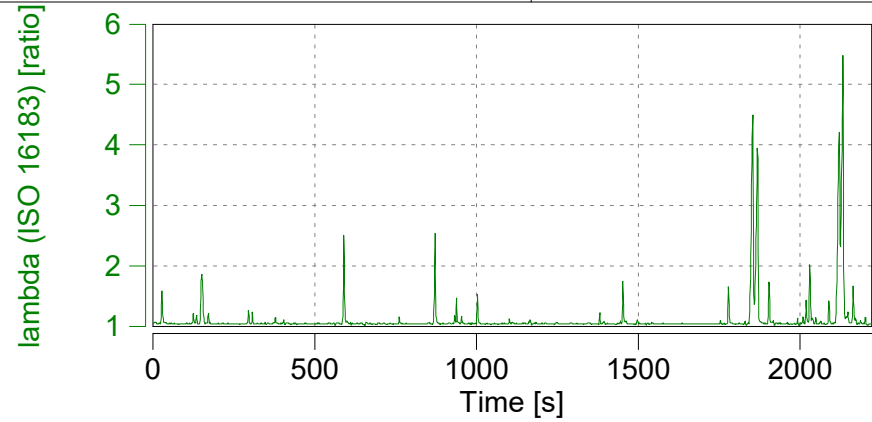
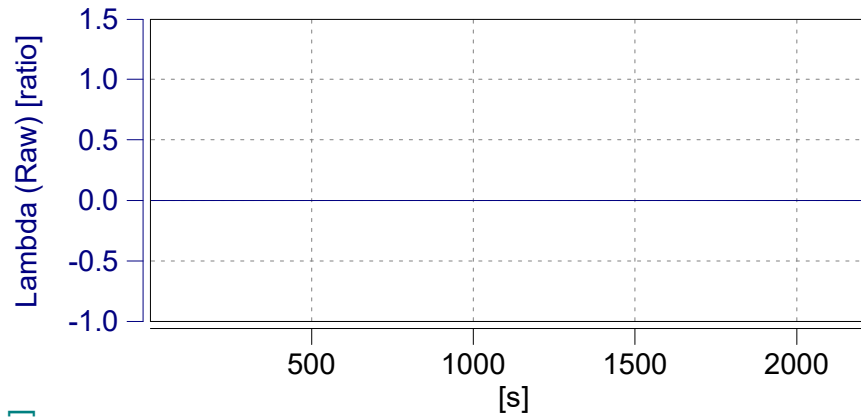


Concerto M.O.V.E., 2019



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)

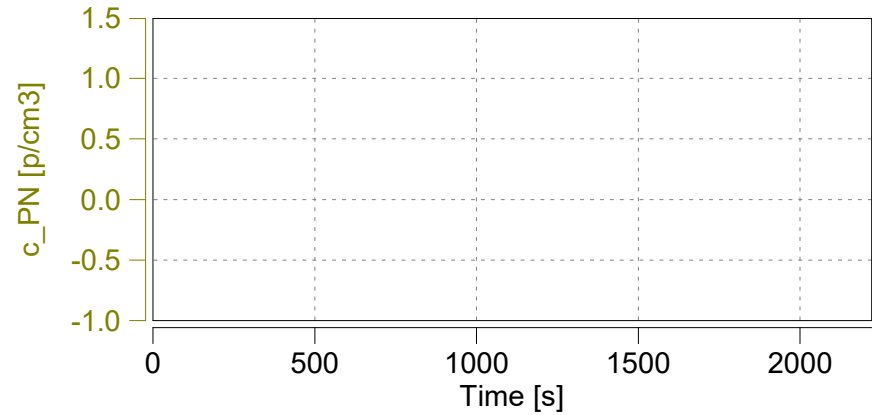
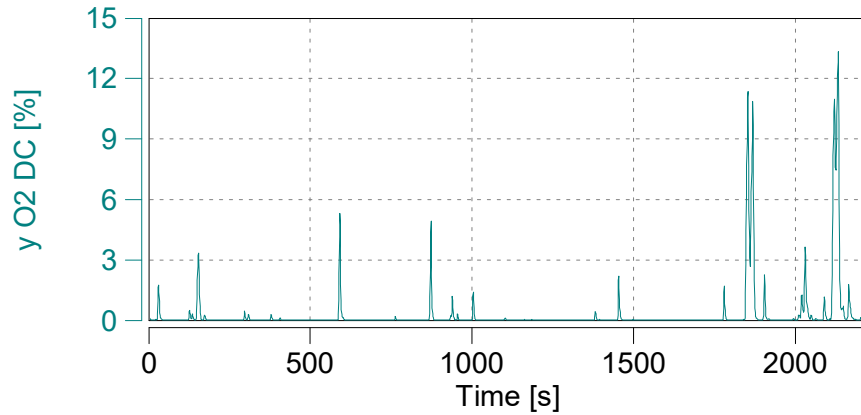
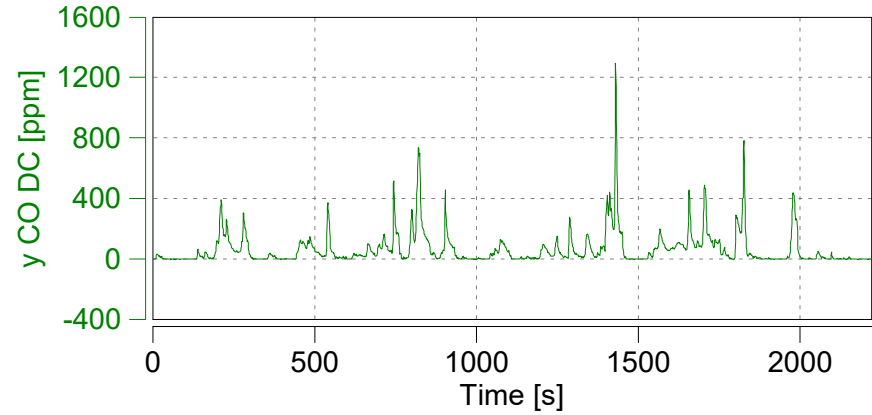
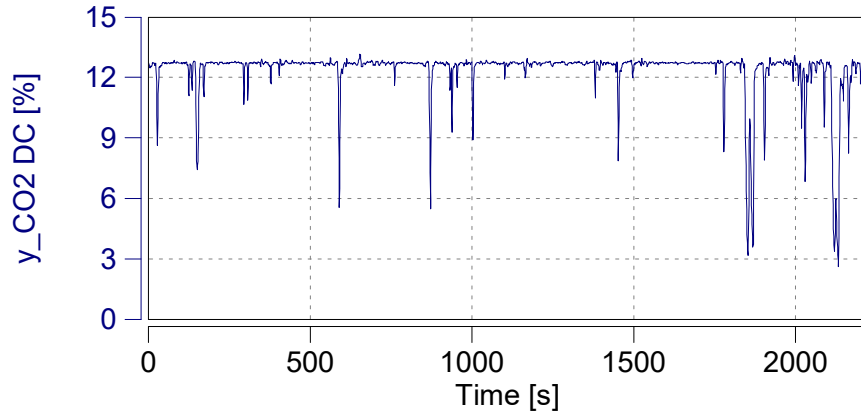
'Highway'

Start Date: 09/23/2019

Start Time: 13:18:44.0

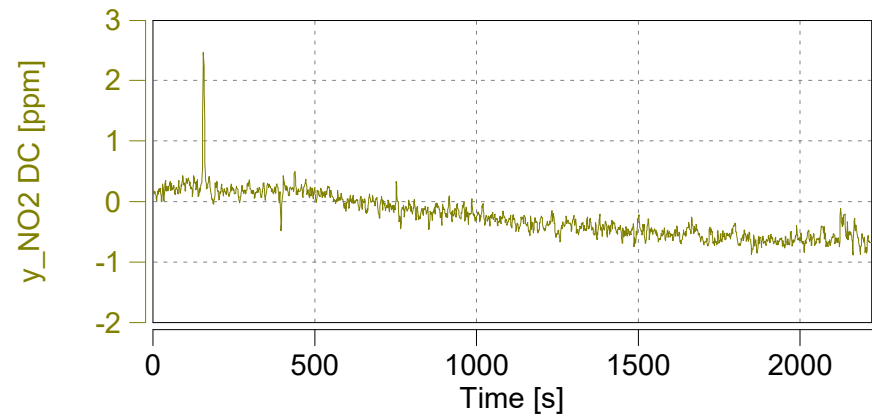
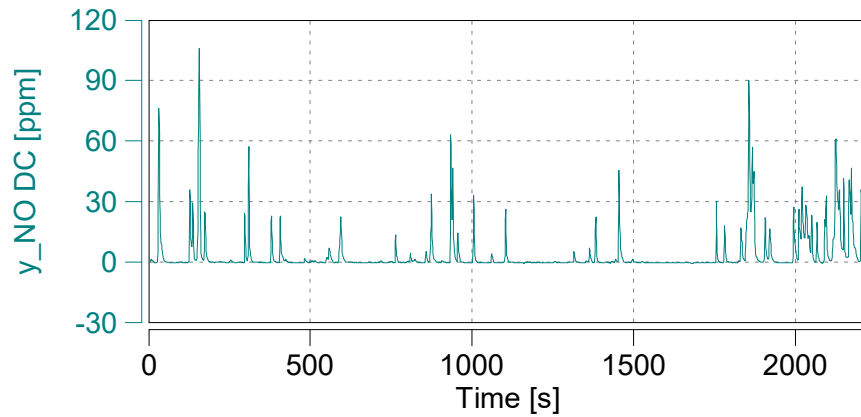
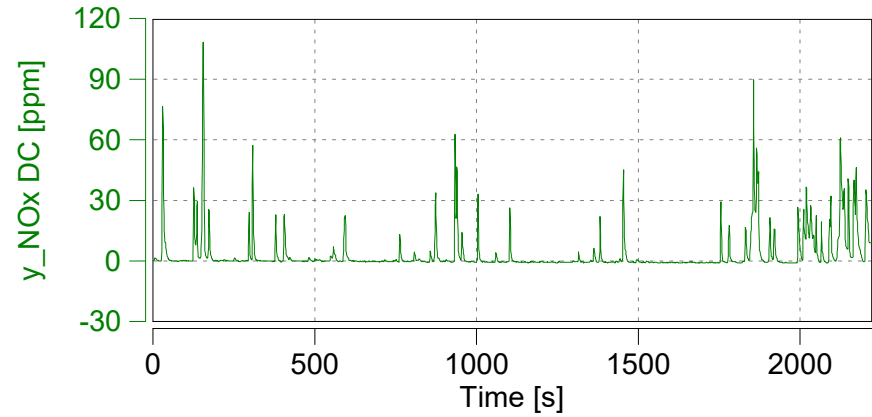
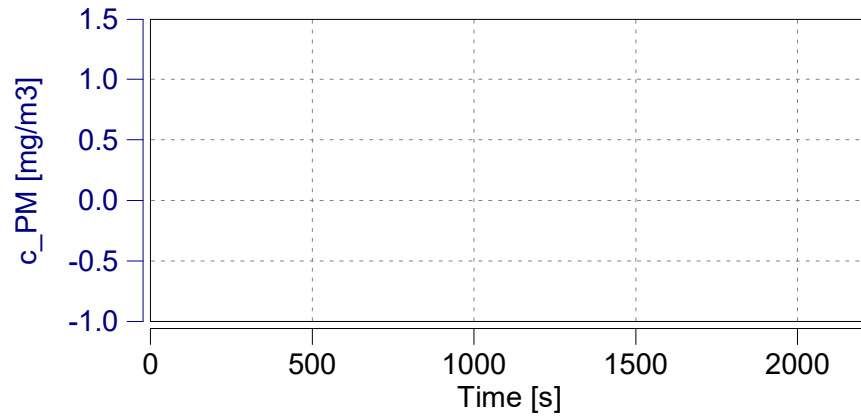


Concerto M.O.V.E., 2019



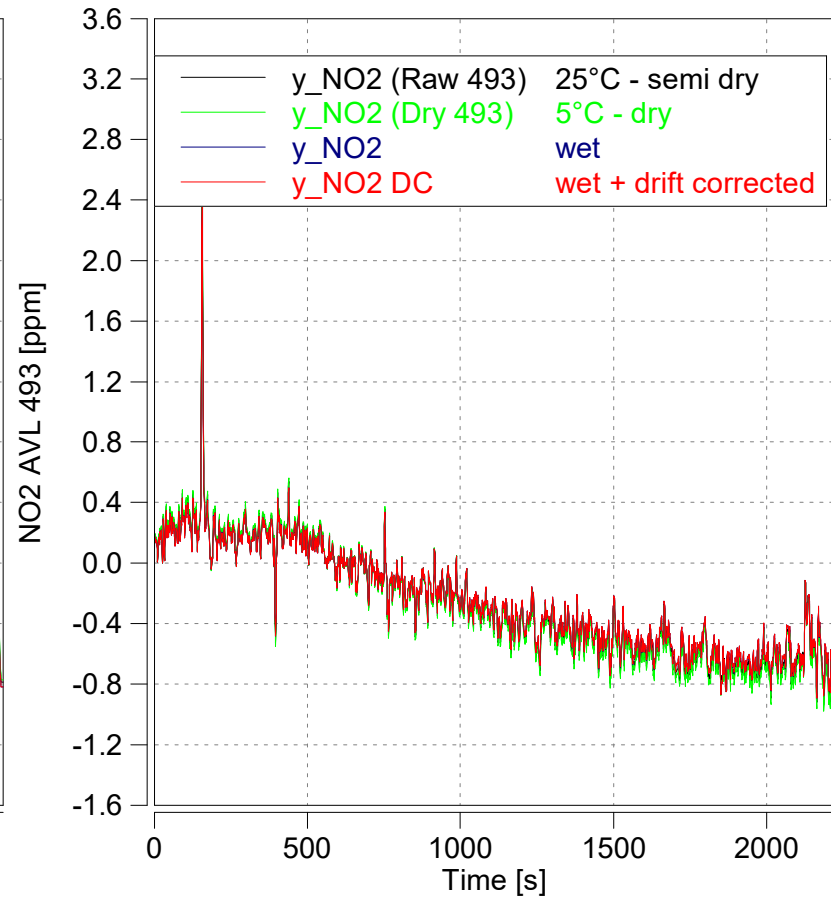
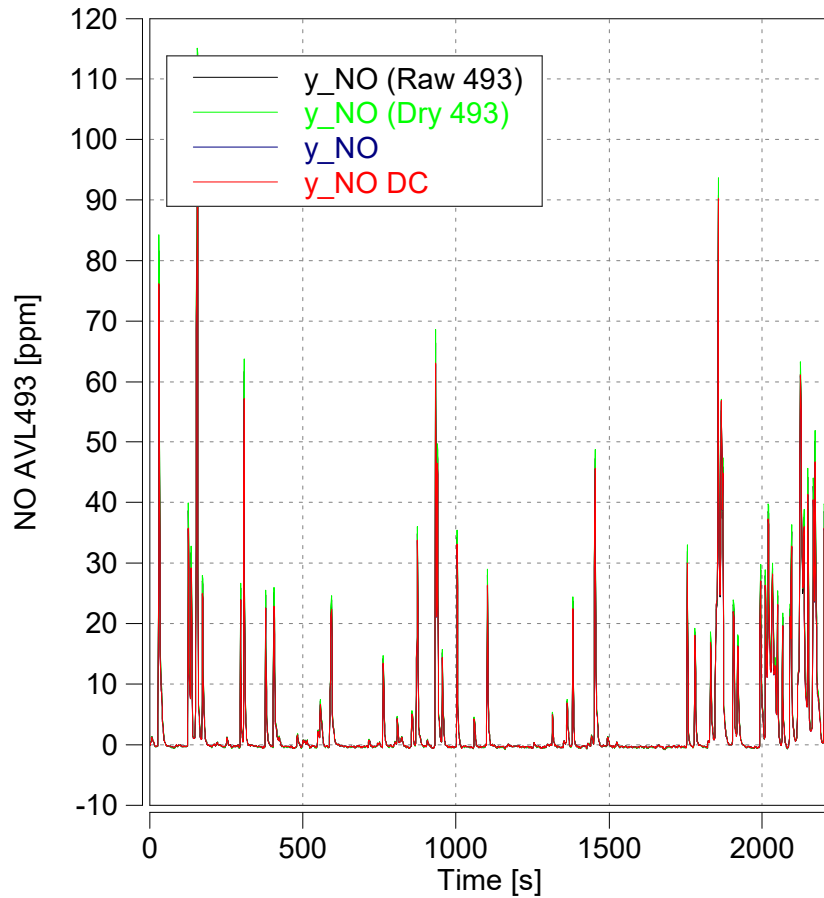
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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



Concerto Version: 480 Build 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

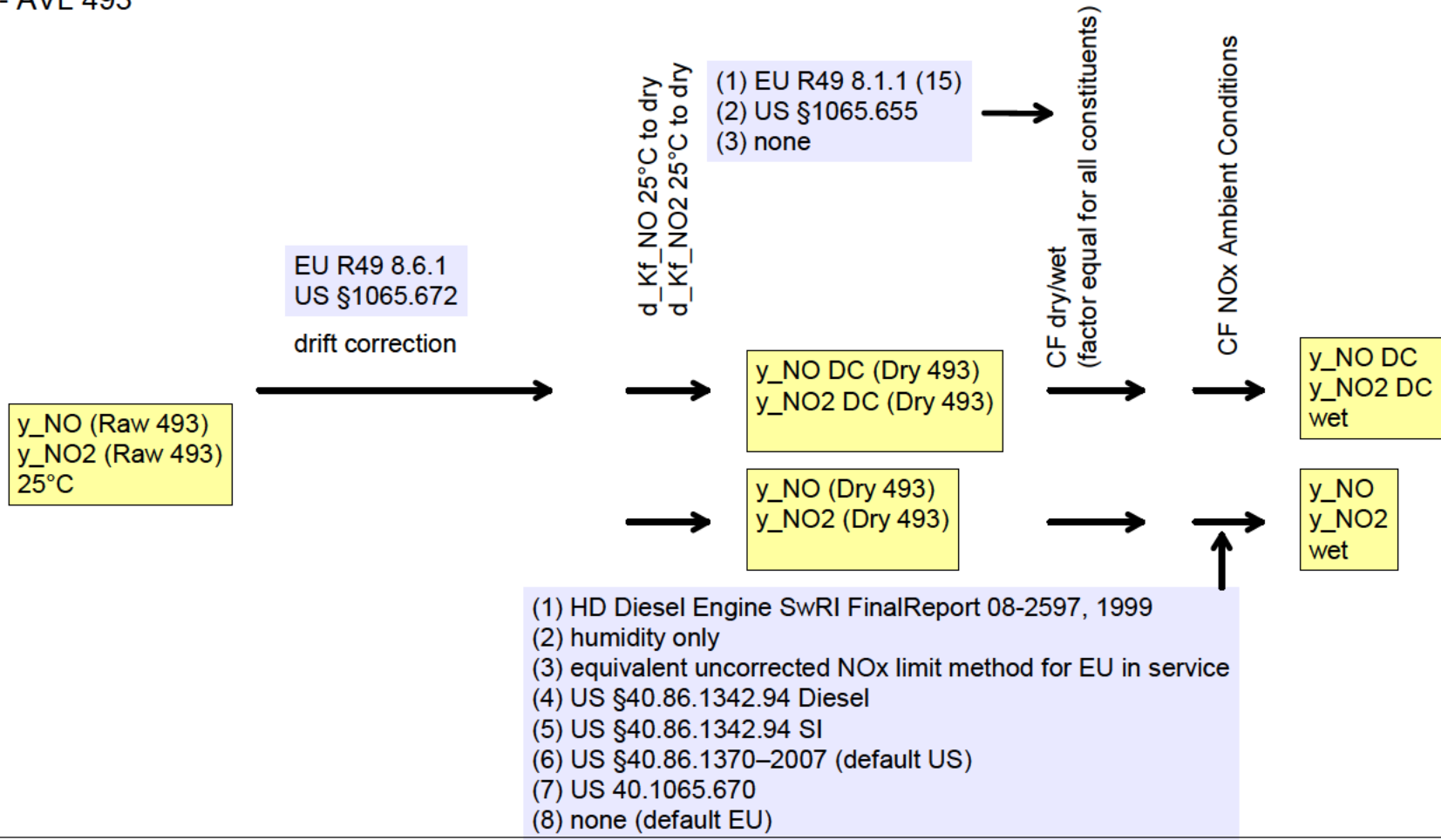


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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: Highway

Page: Corrected Emissions (5)

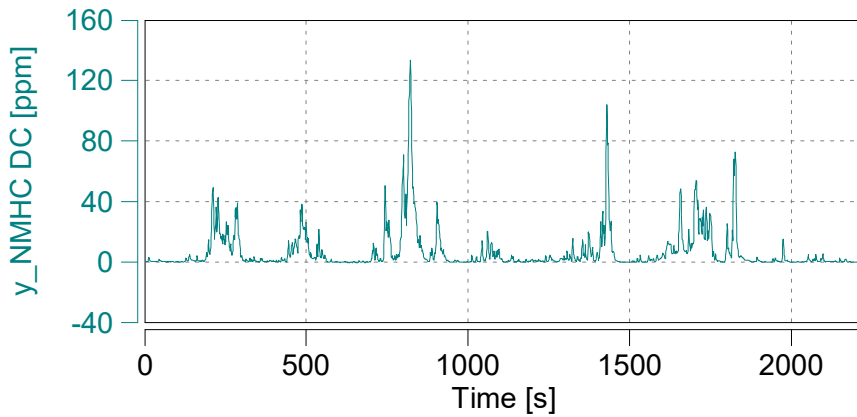
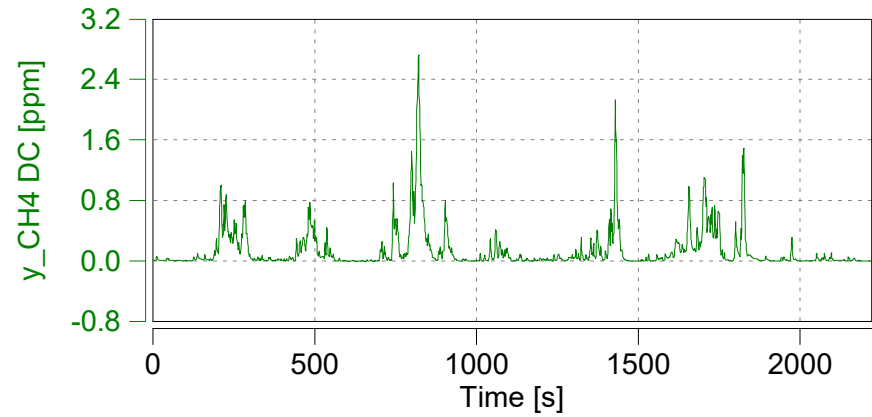
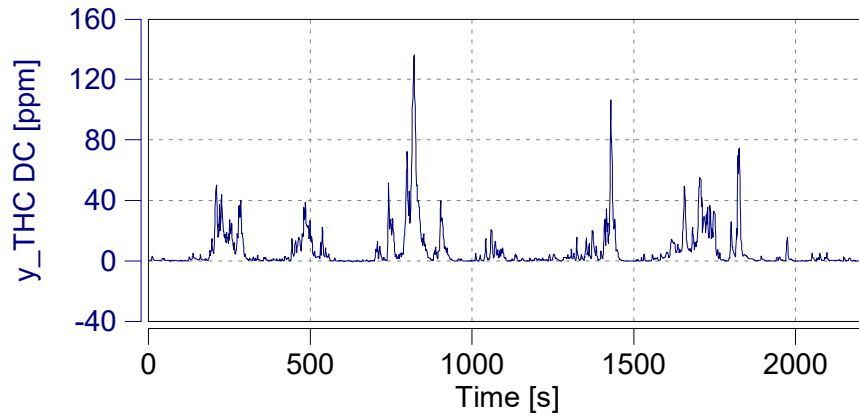
'Highway'

Start Date: 09/23/2019

Start Time: 13:18:44.0

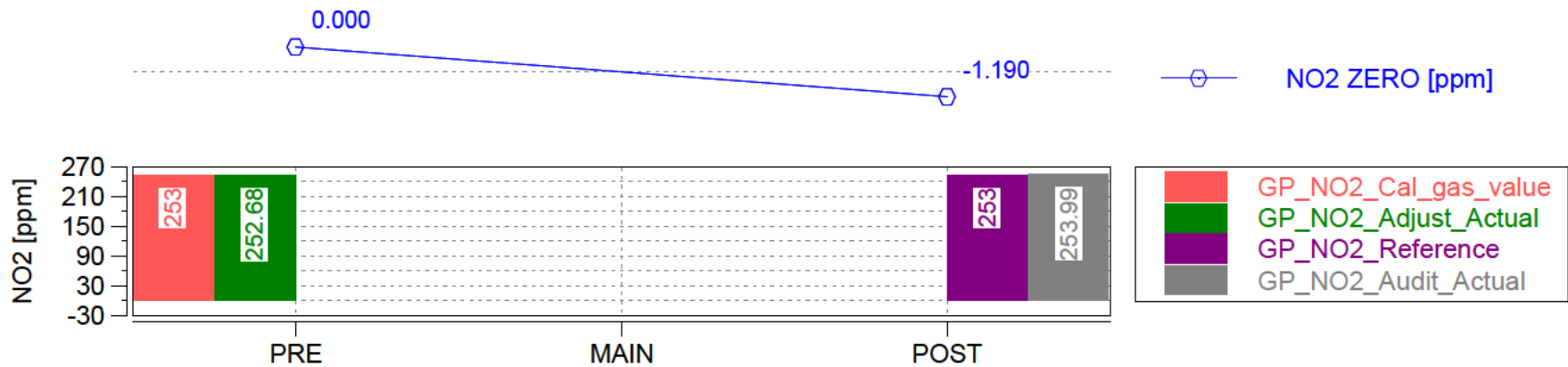
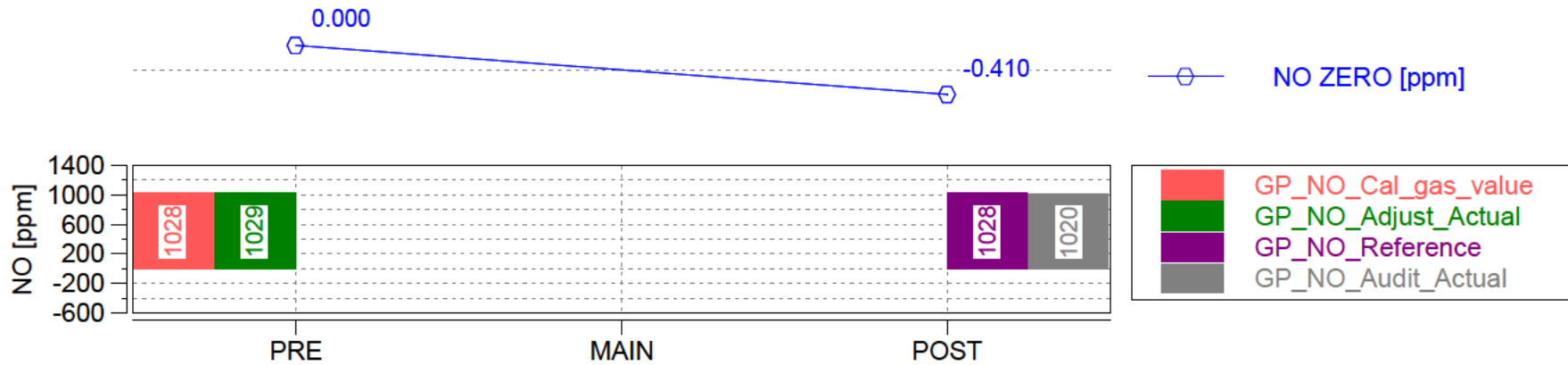


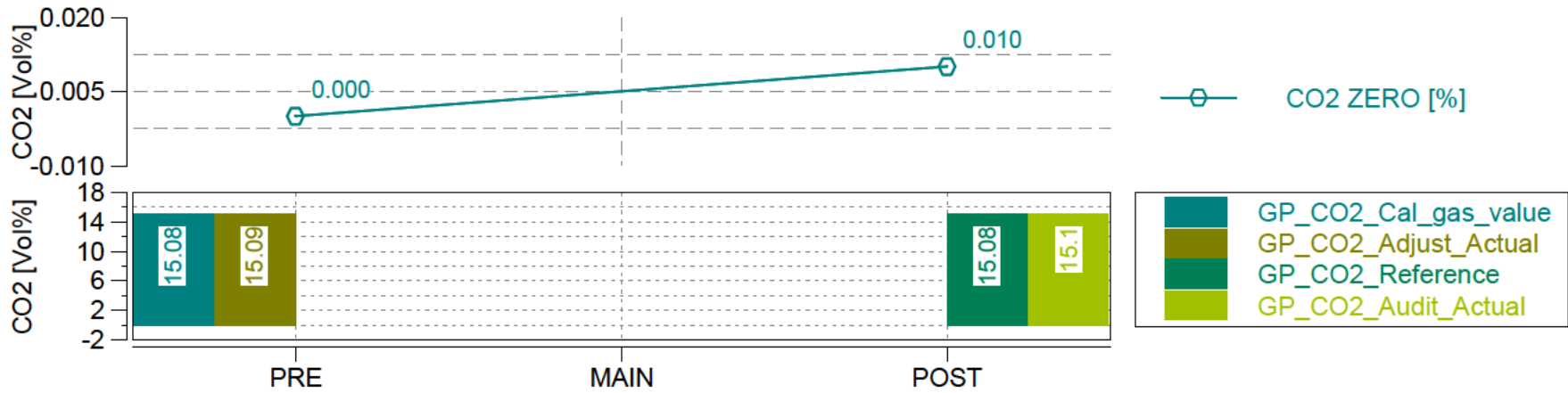
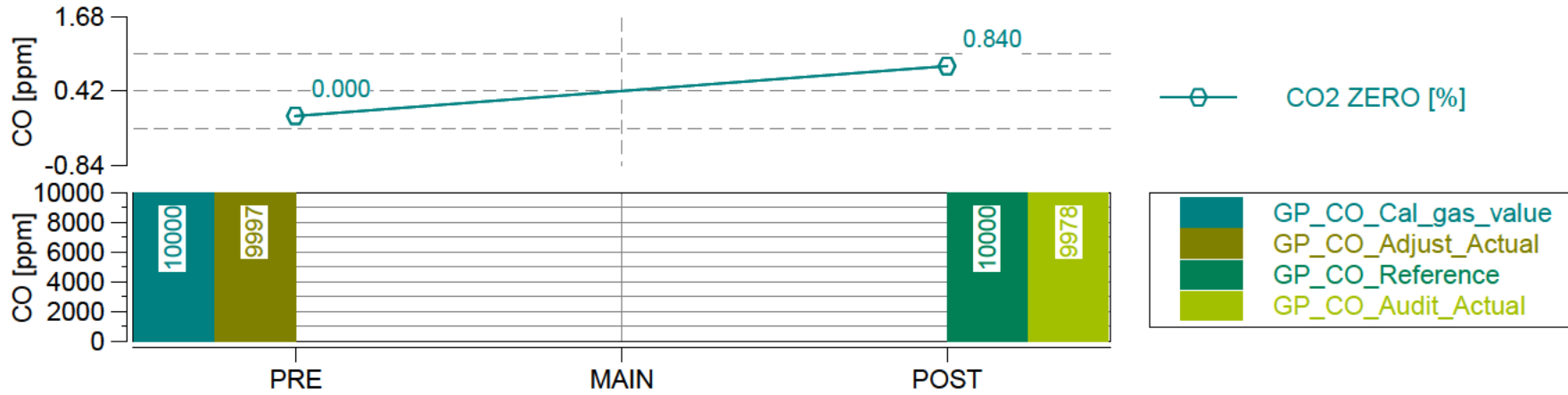
Concerto M.O.V.E., 2019



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:

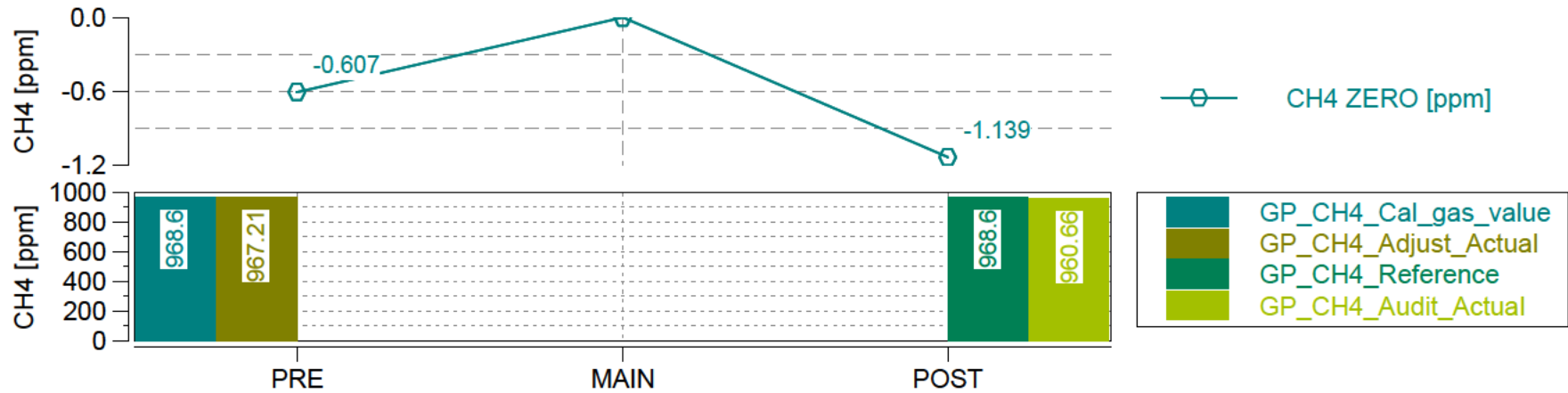
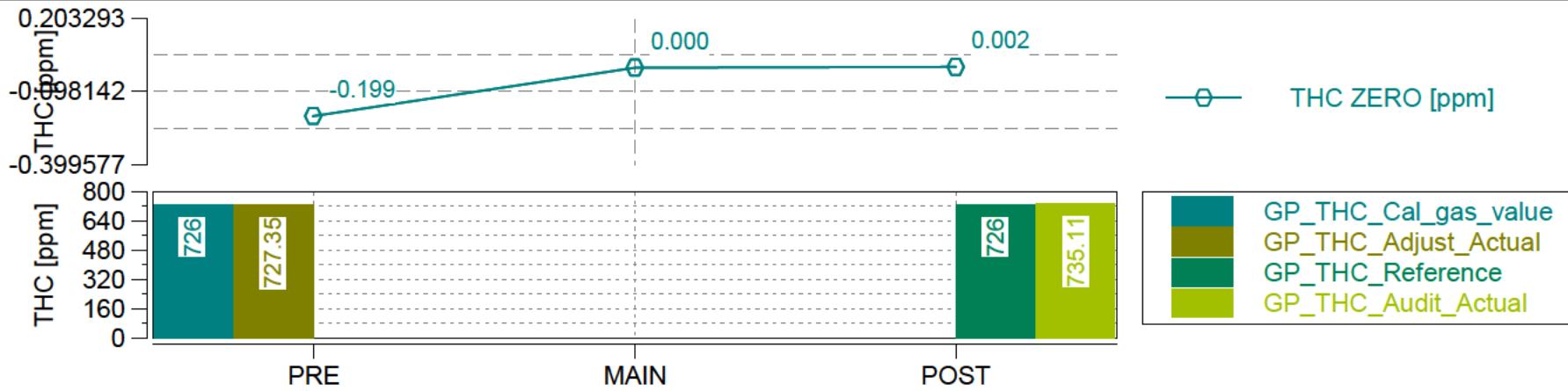
Vehicle: Arteon / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90





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

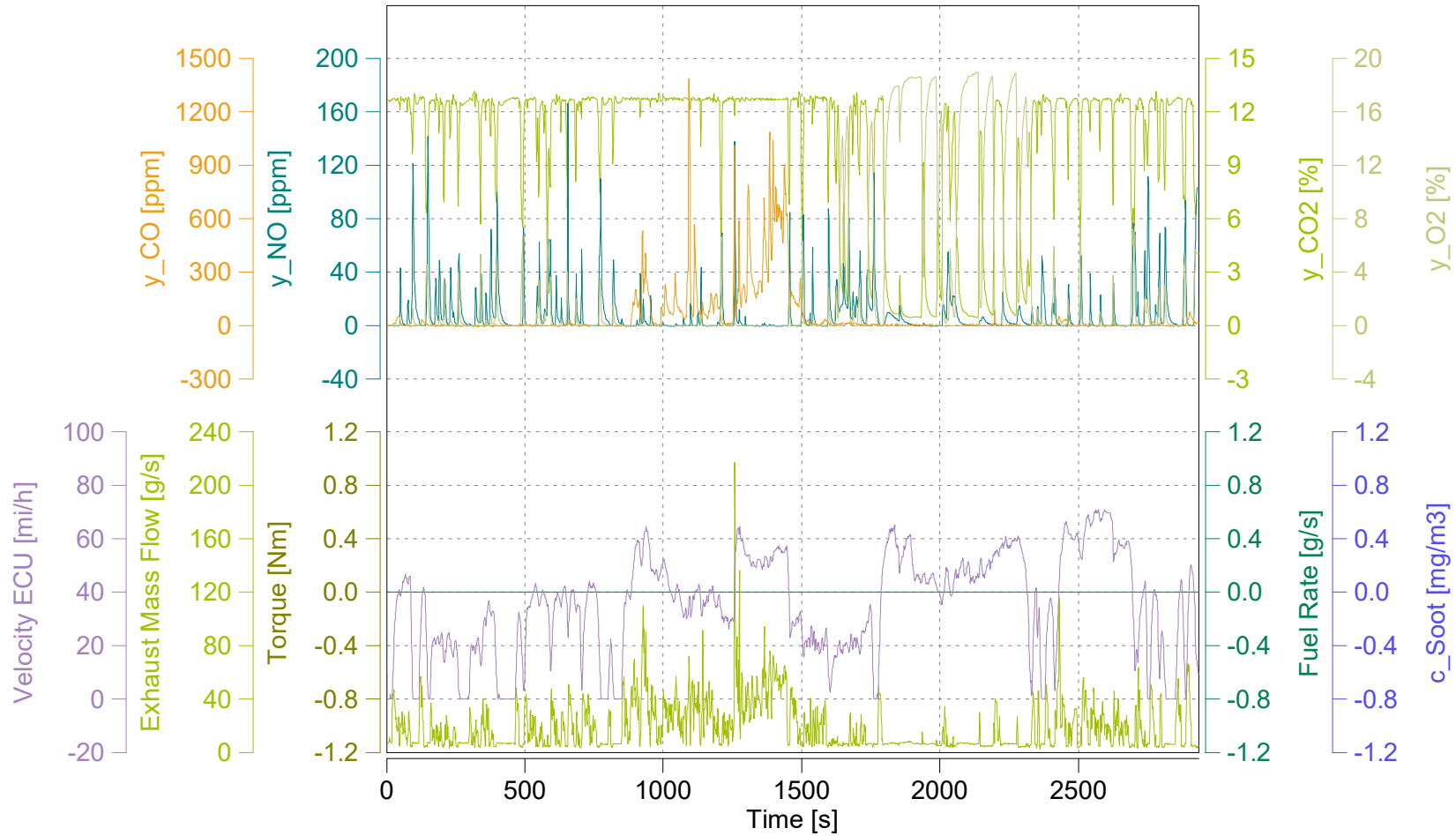


Trip Duration	2936.00	s	ave THC DC	7.88107	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2936.00	s	ave NMHC DC	7.72345	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.71	mi	ave CH4 DC	0.15762	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.71	mi	ave CO DC	49.51587	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	10.30063	%	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

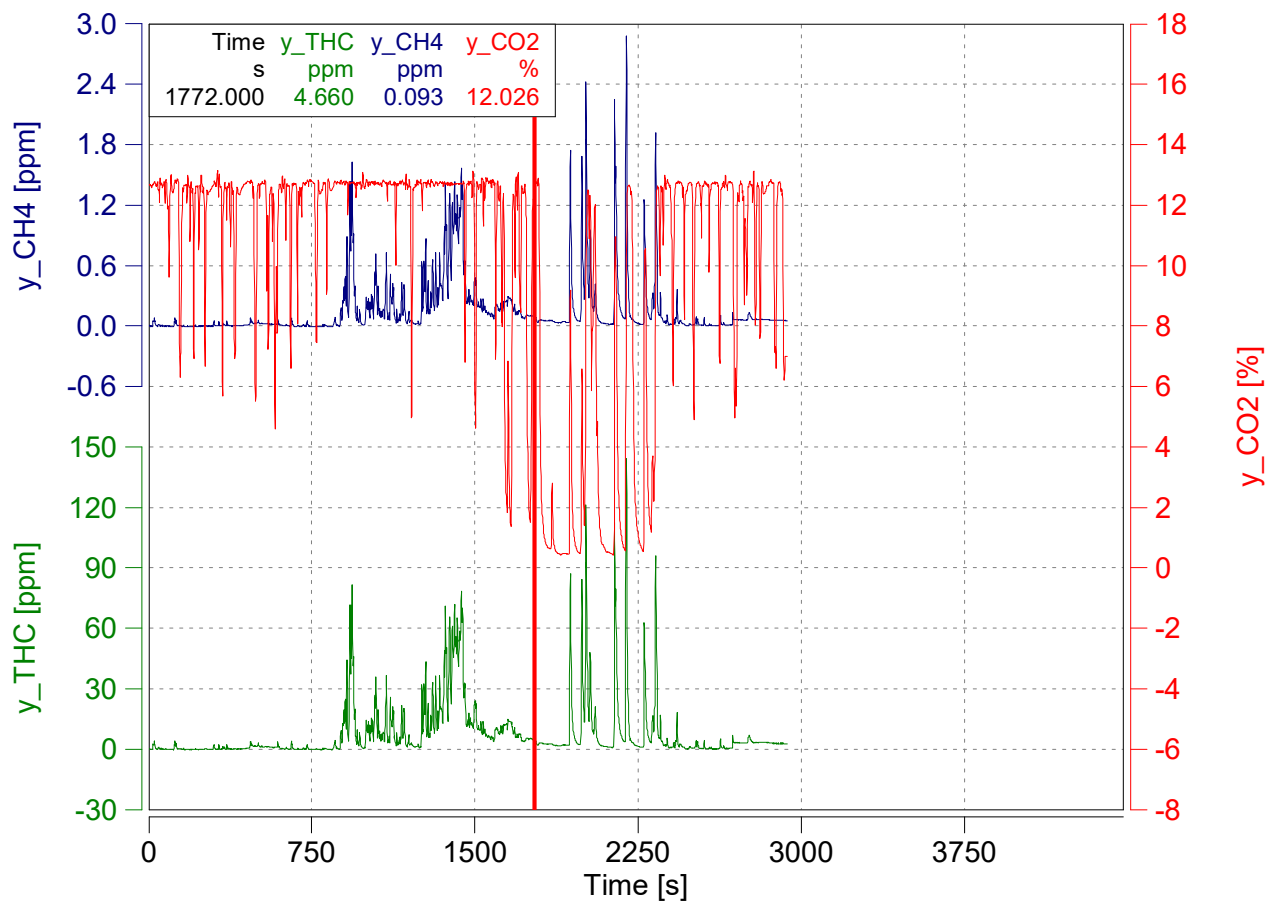
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: Artone / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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 Legislation:

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

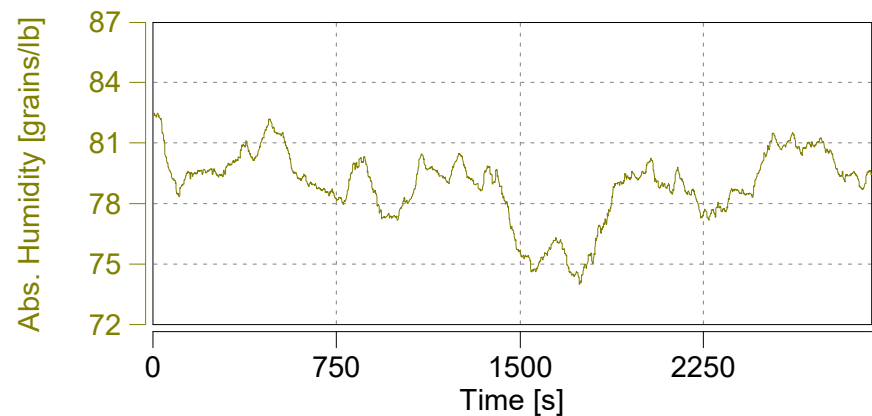
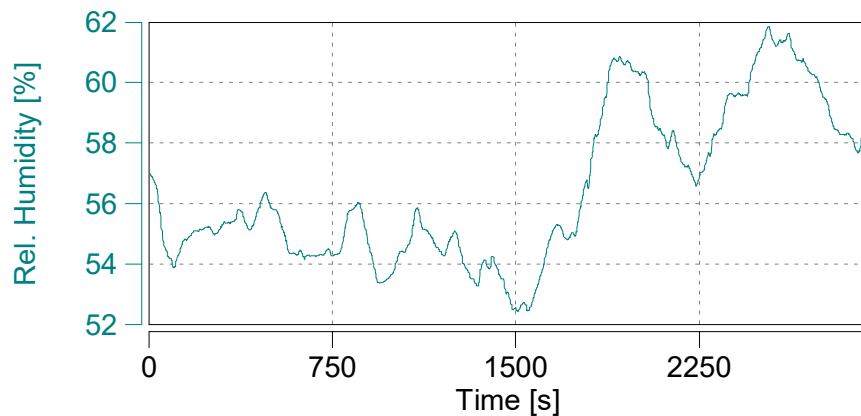
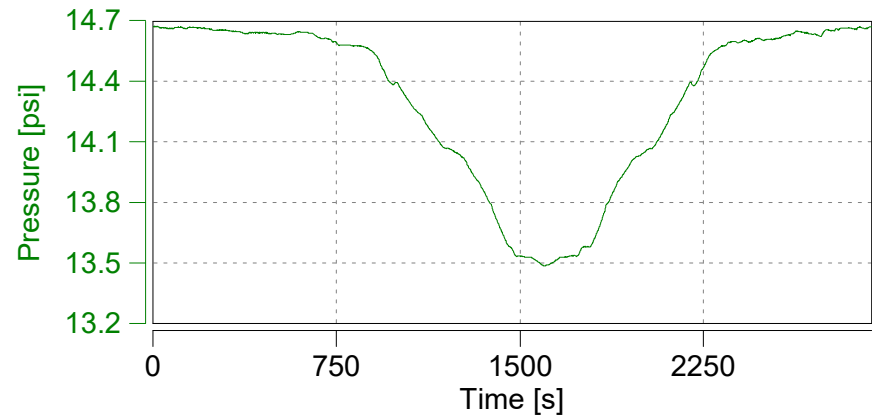
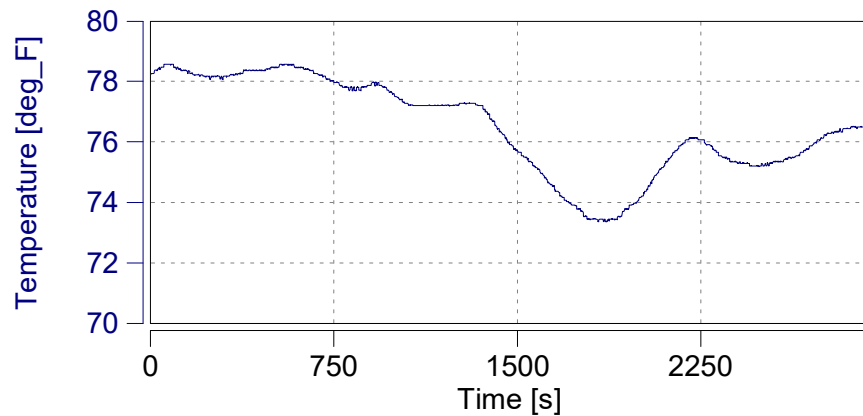
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

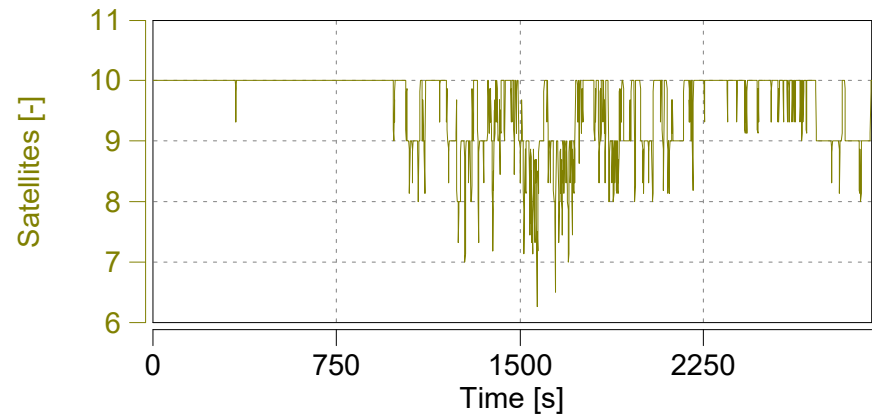
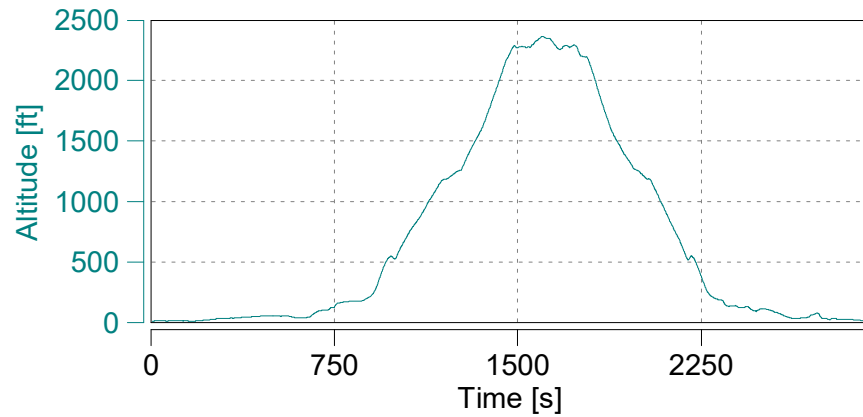
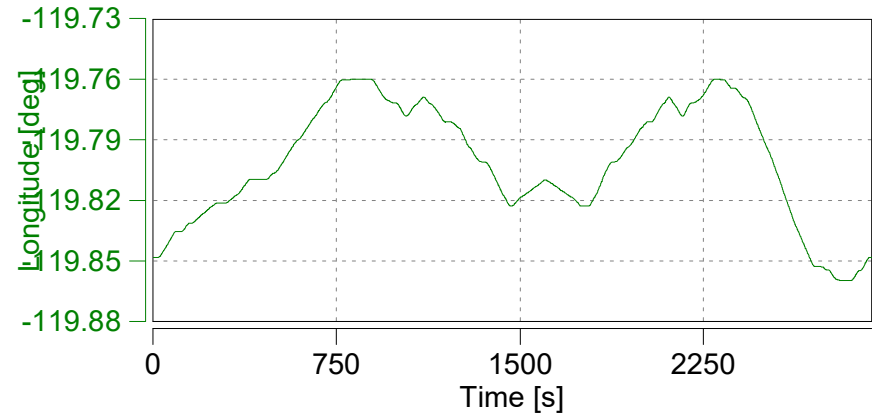
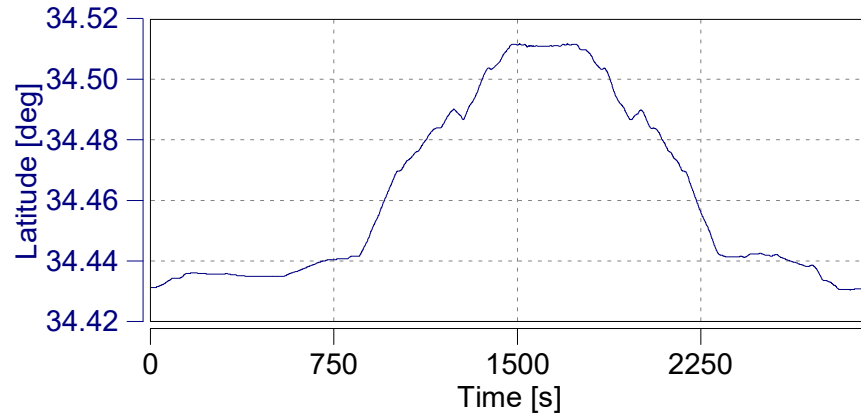
Concerto Version: 480 Build 316, Serial Number: 1120
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Vehicle: Artone / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



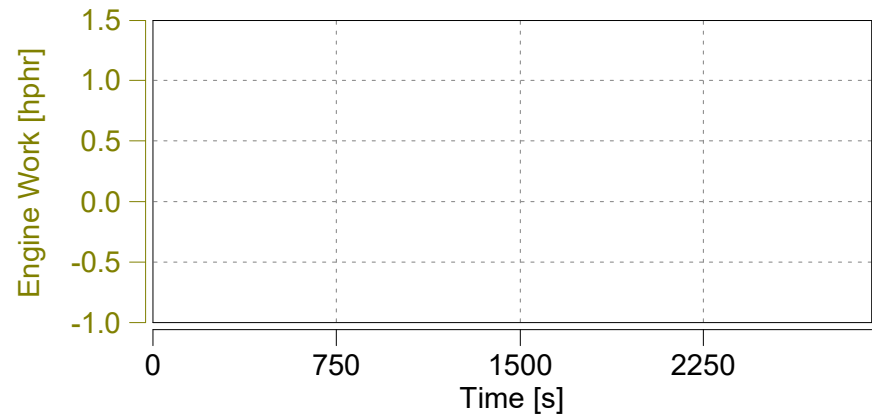
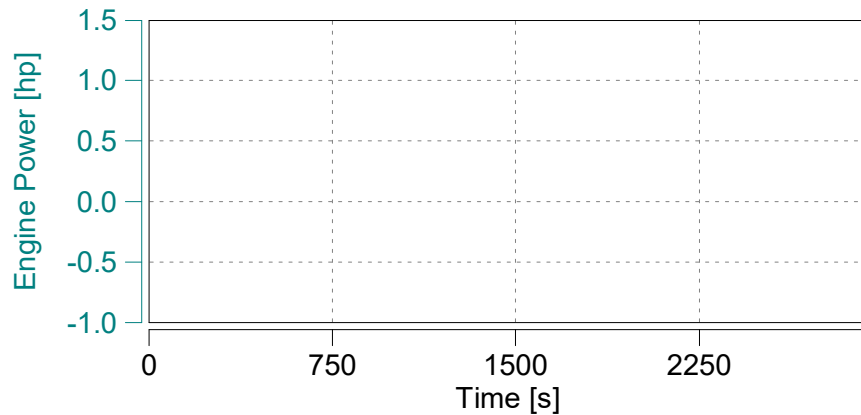
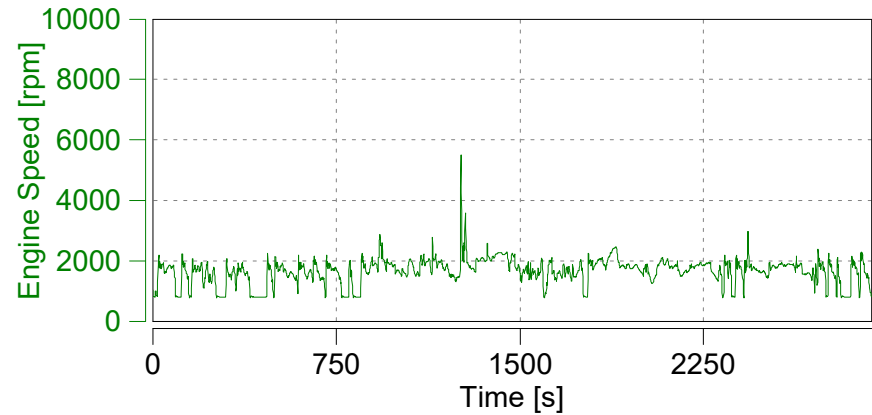
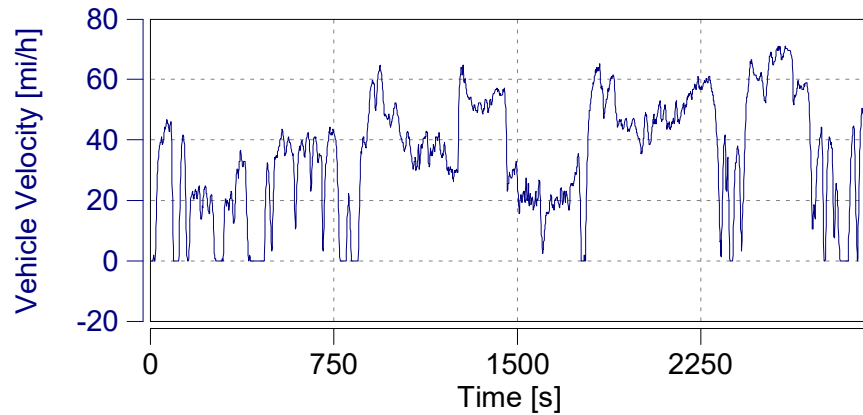
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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



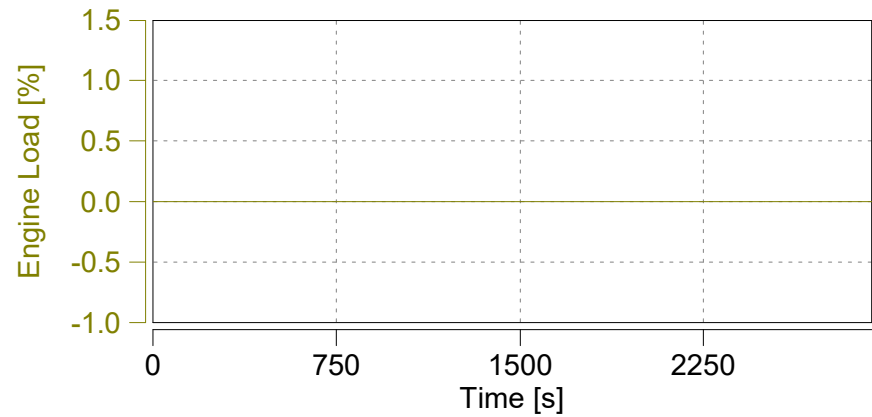
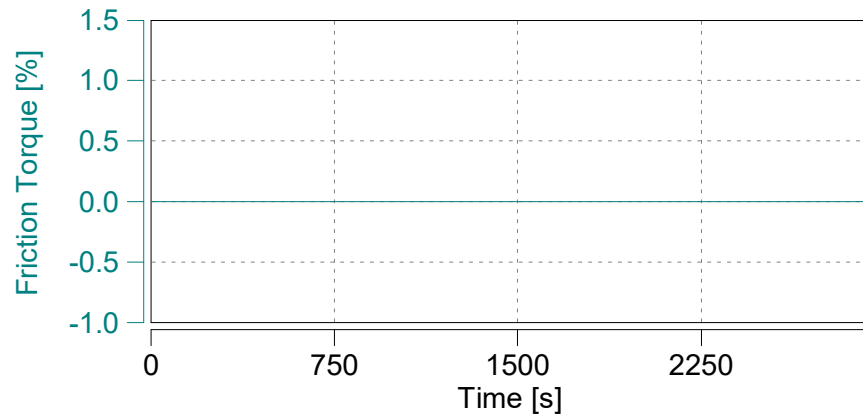
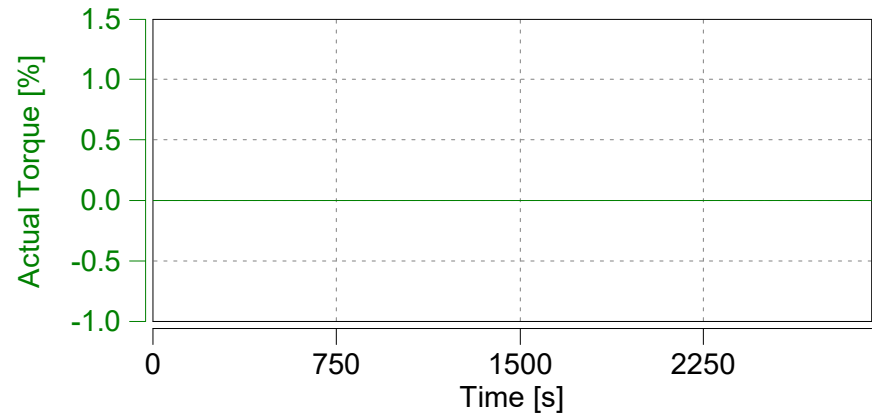
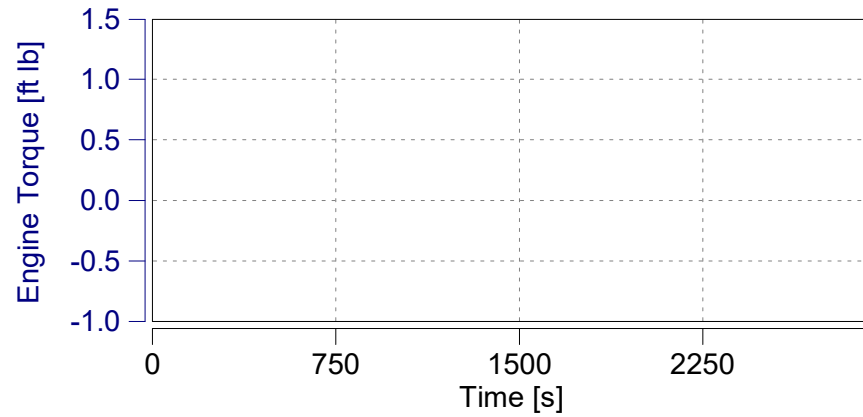
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NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



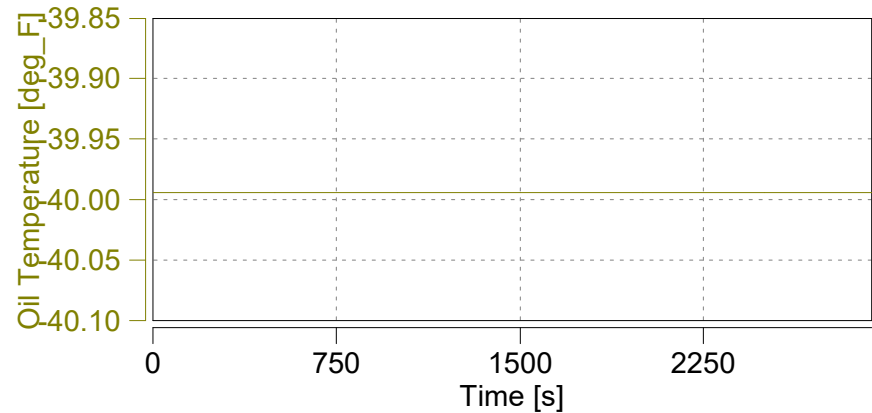
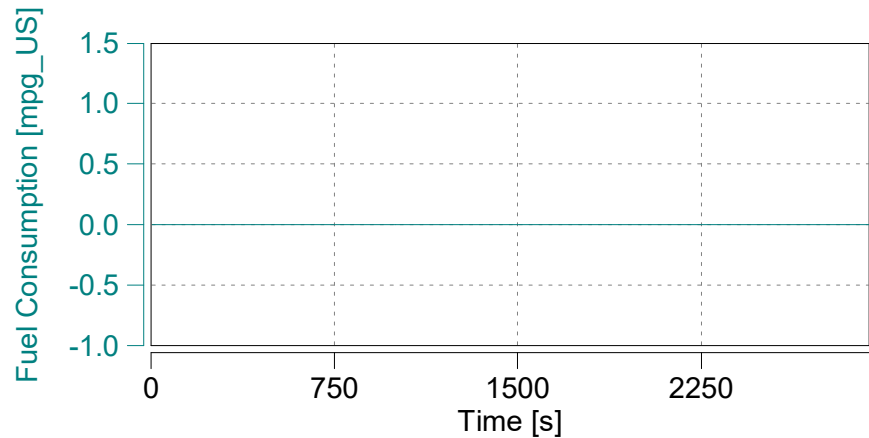
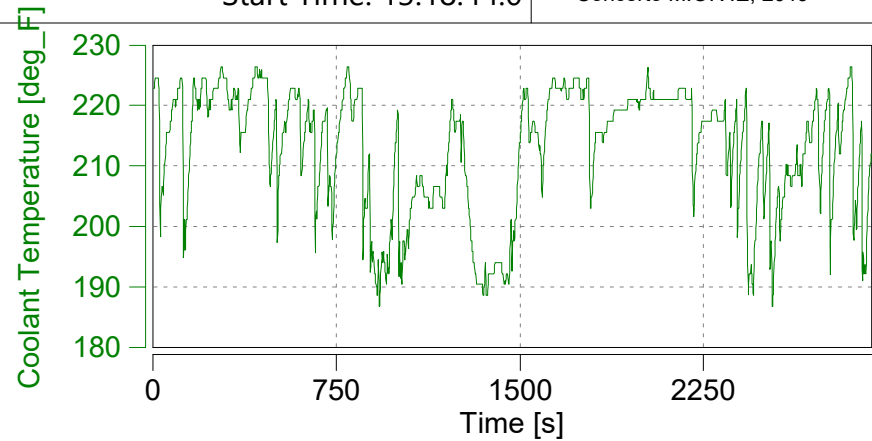
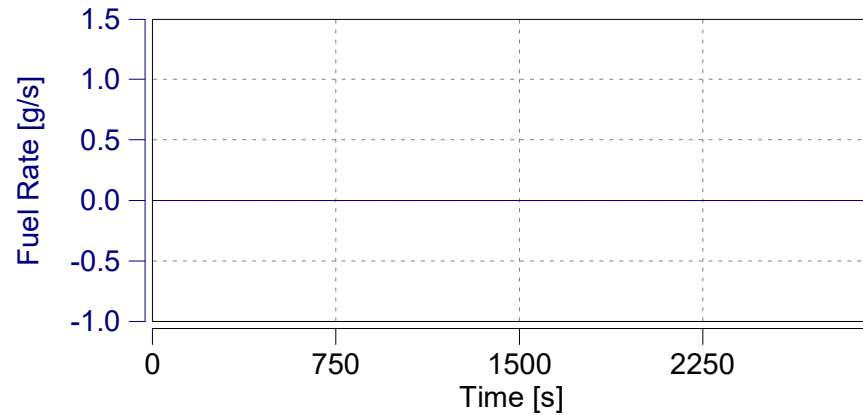
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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



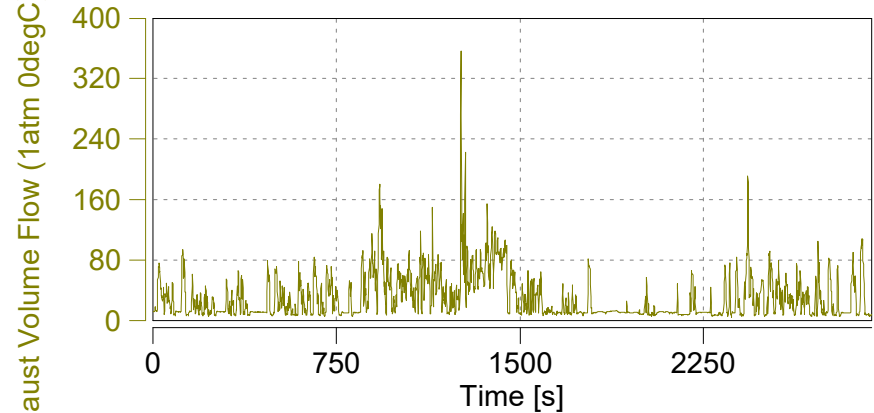
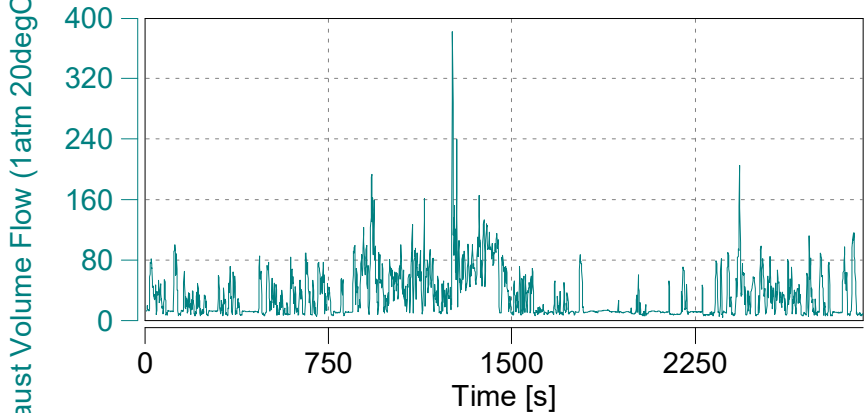
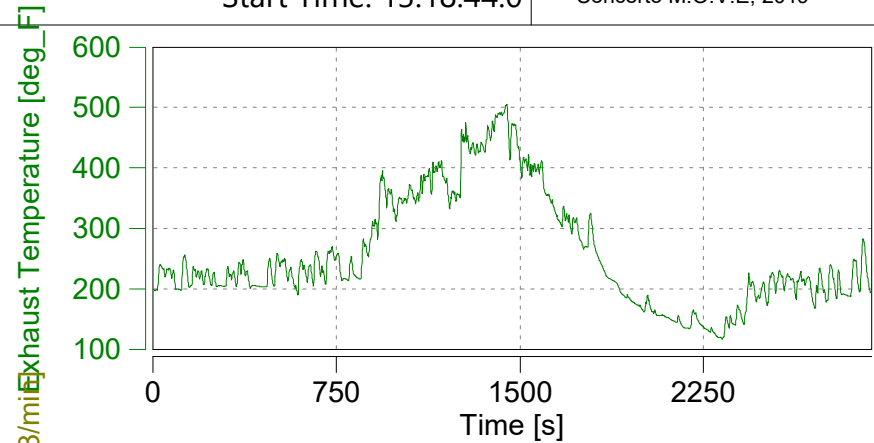
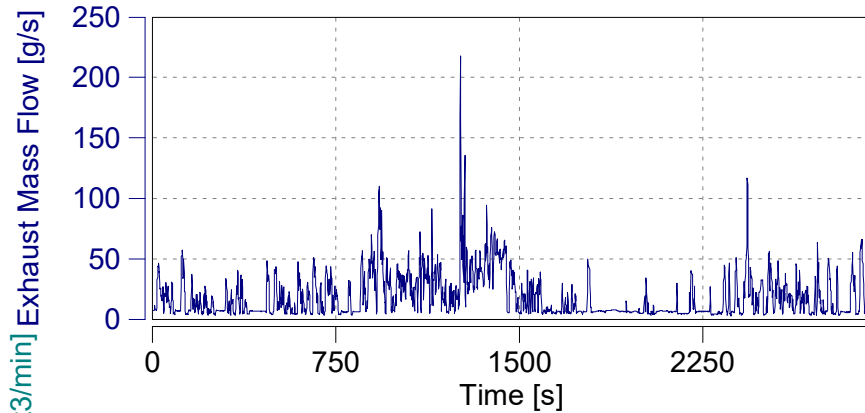
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Legislation:

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



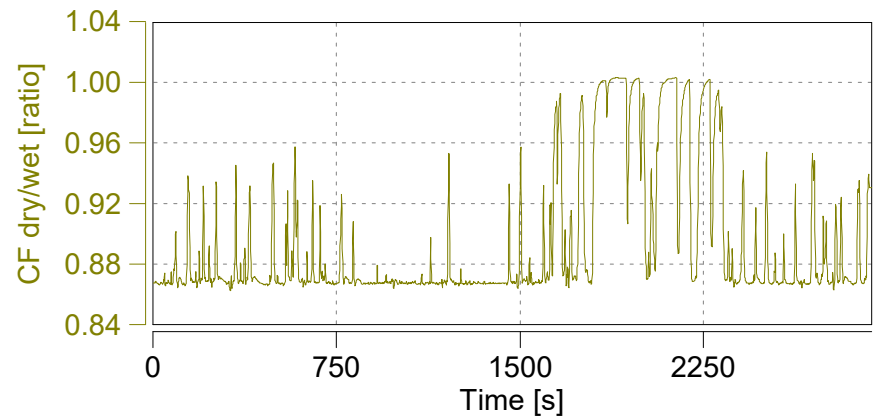
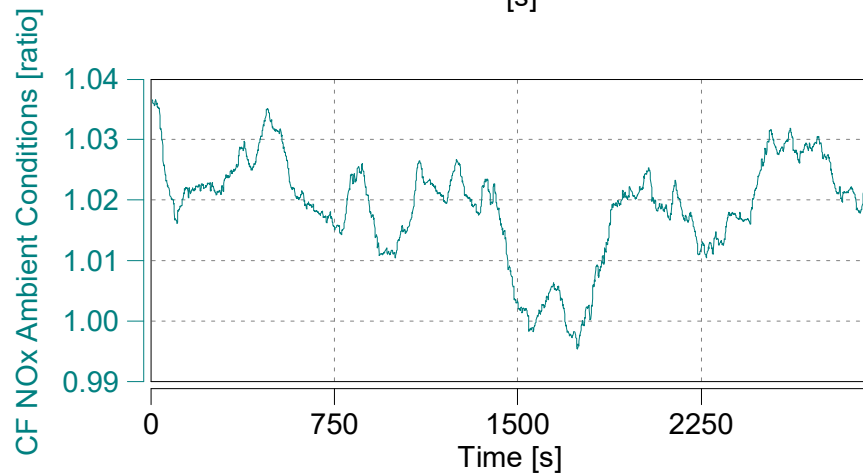
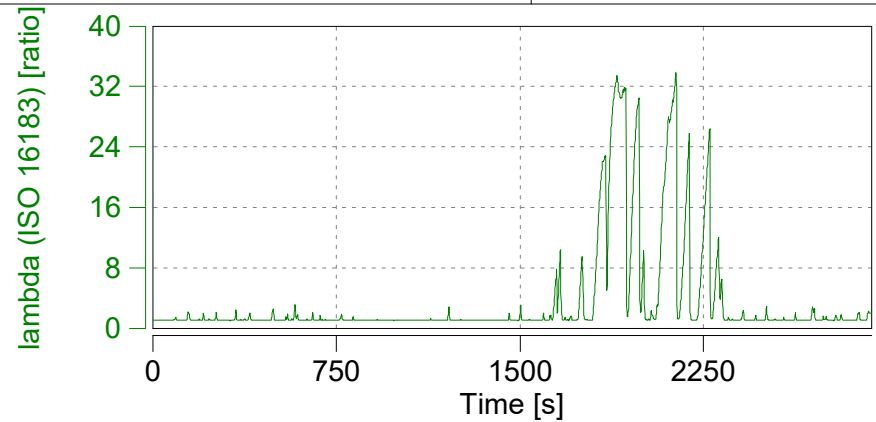
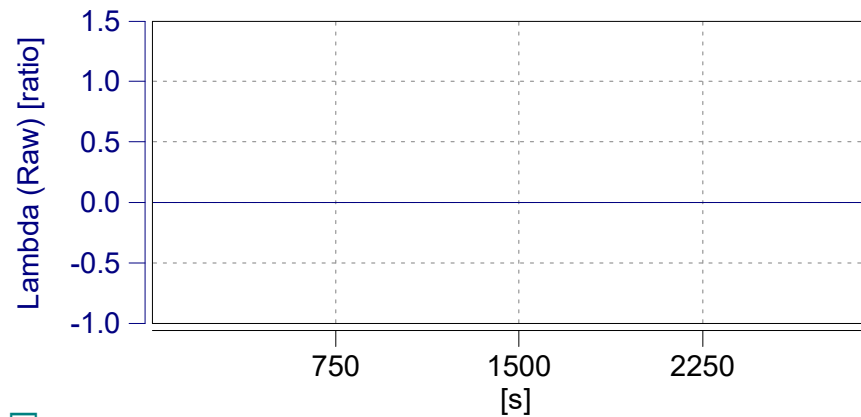
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Legislation:

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



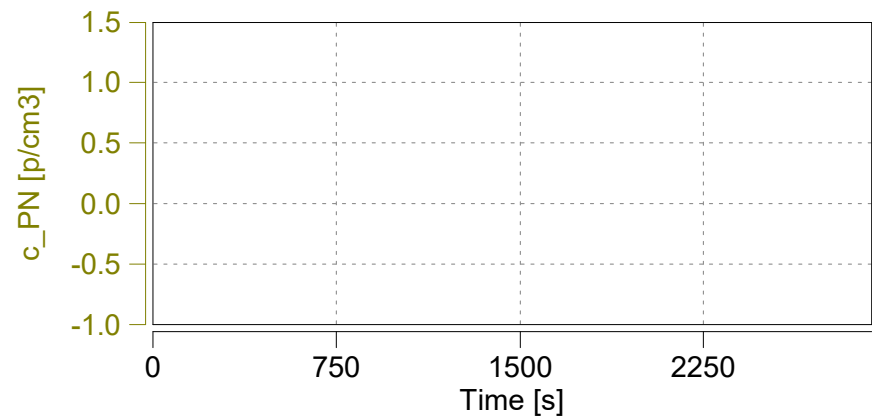
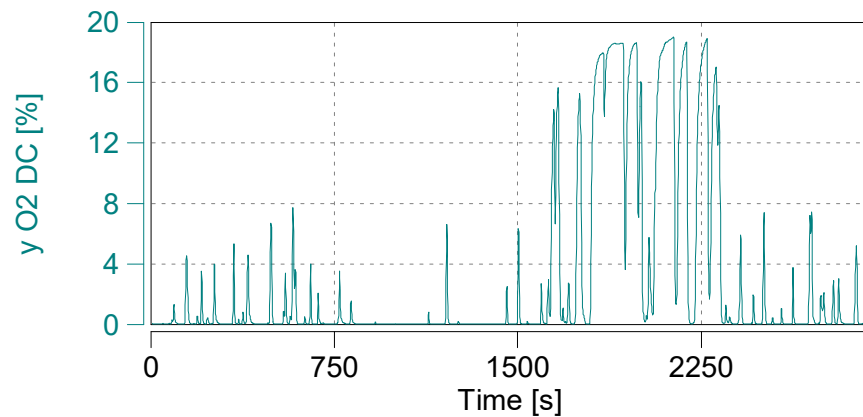
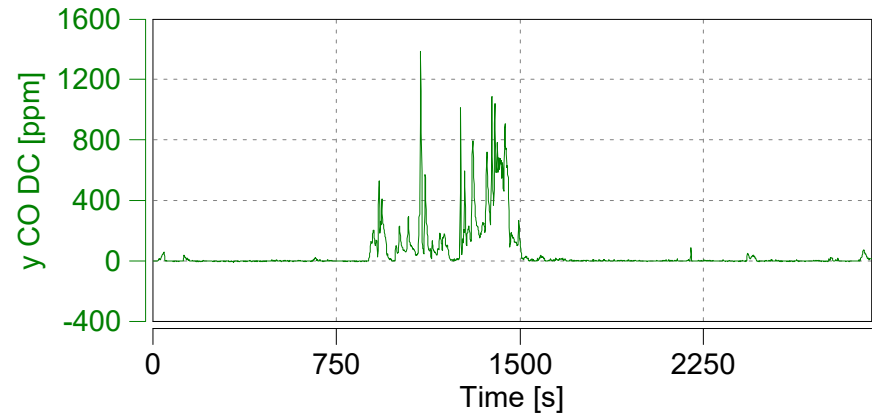
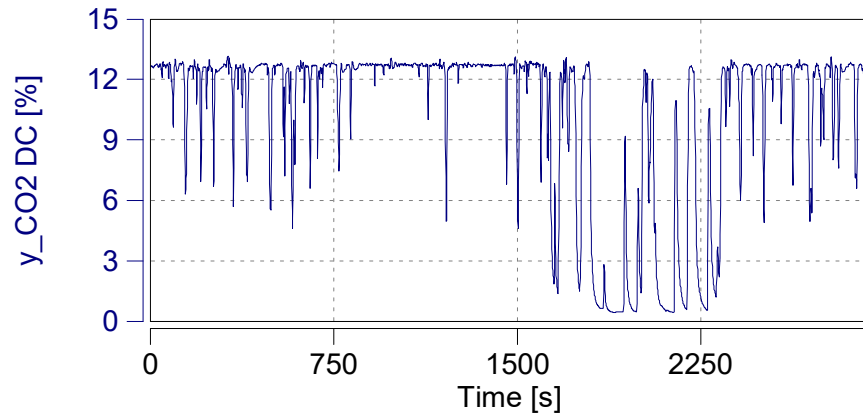
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Legislation:

Vehicle: Artone / 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: Artone / 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: Artone / 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)

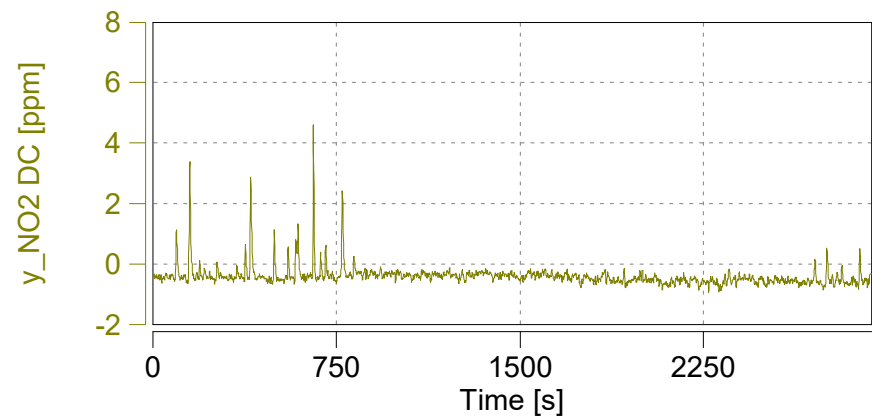
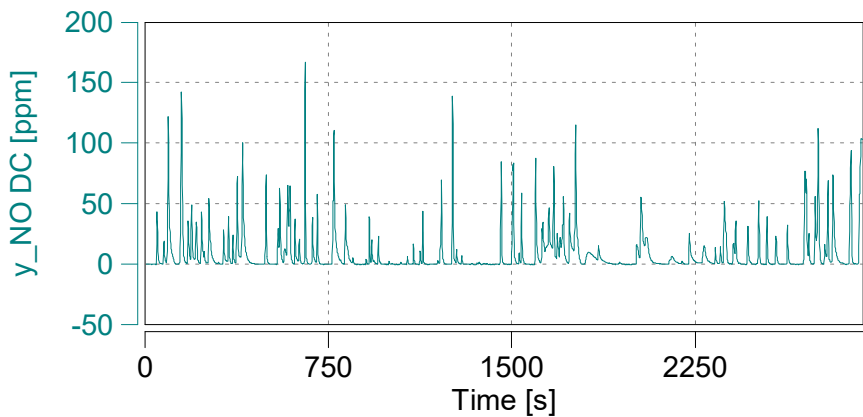
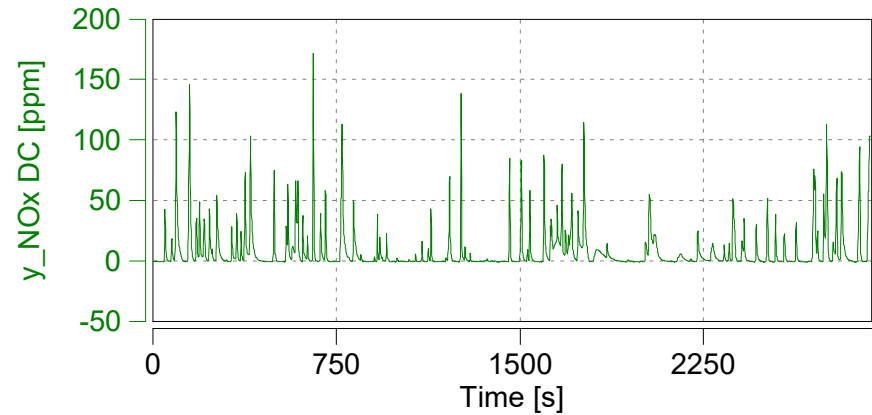
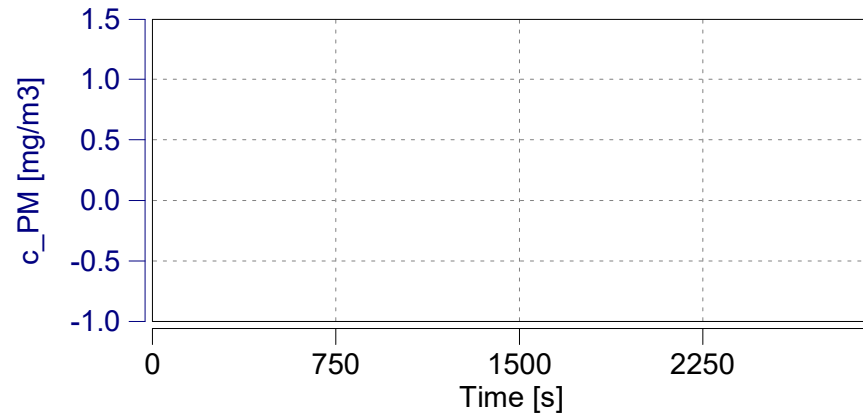
'Mountain'

Start Date: 09/23/2019

Start Time: 13:18:44.0

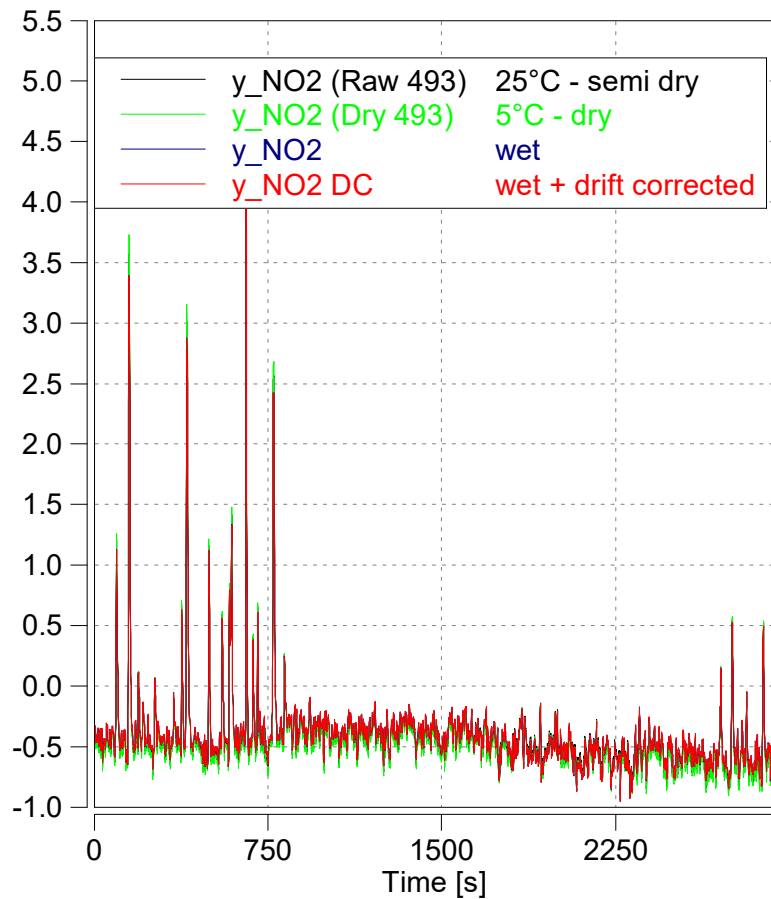
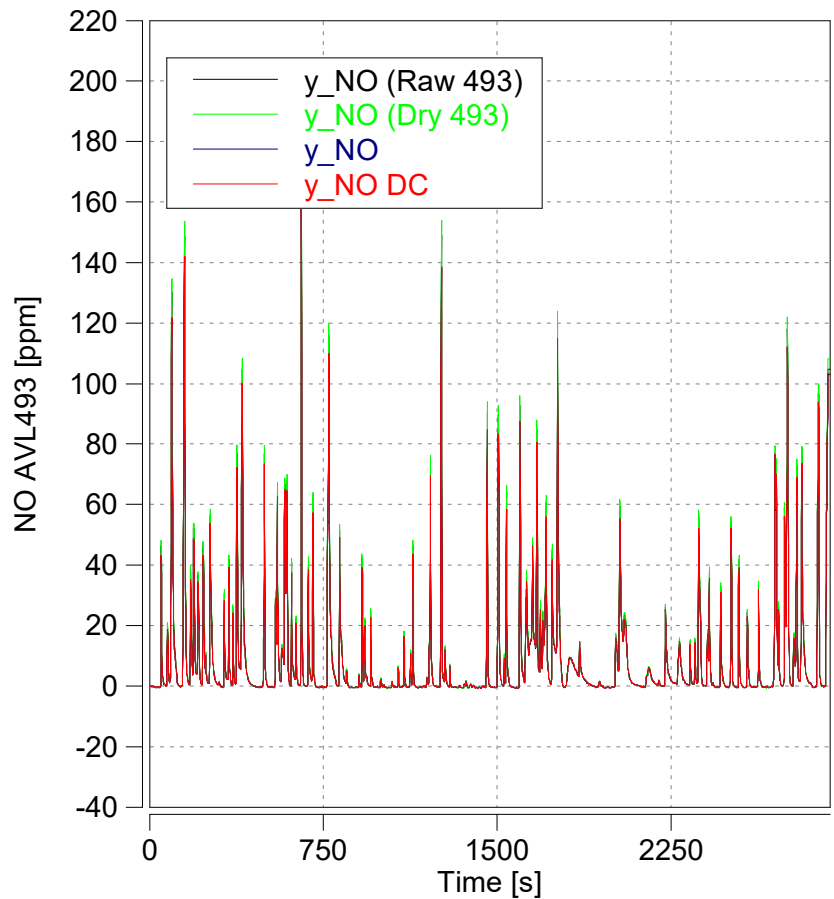


Concerto M.O.V.E., 2019



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

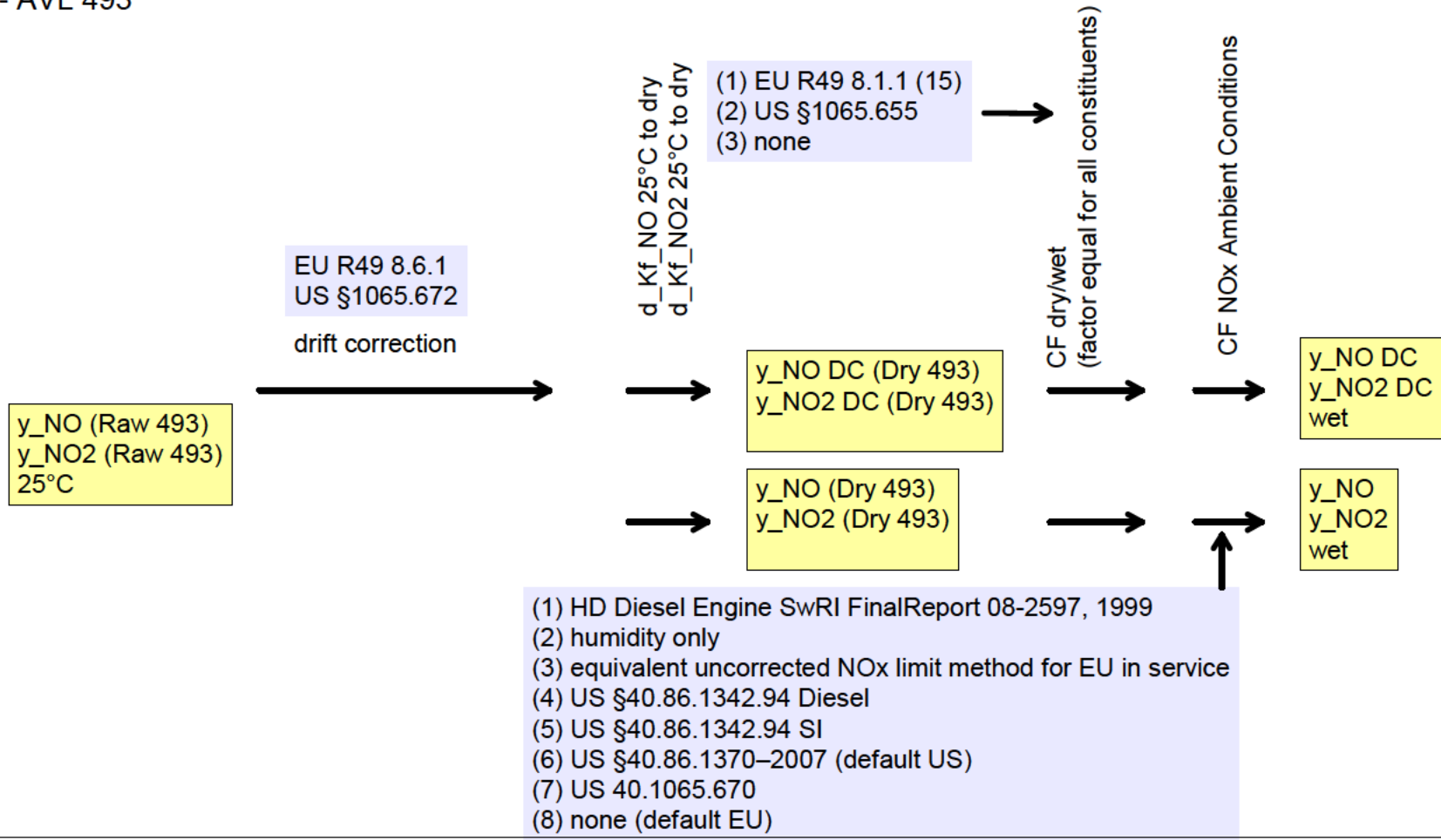


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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

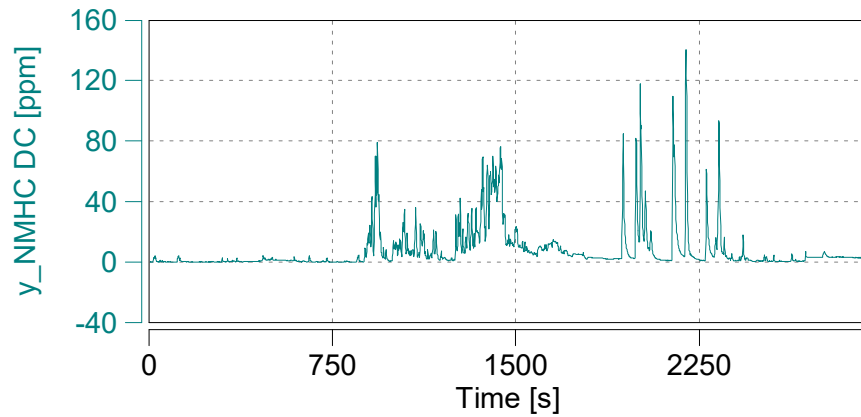
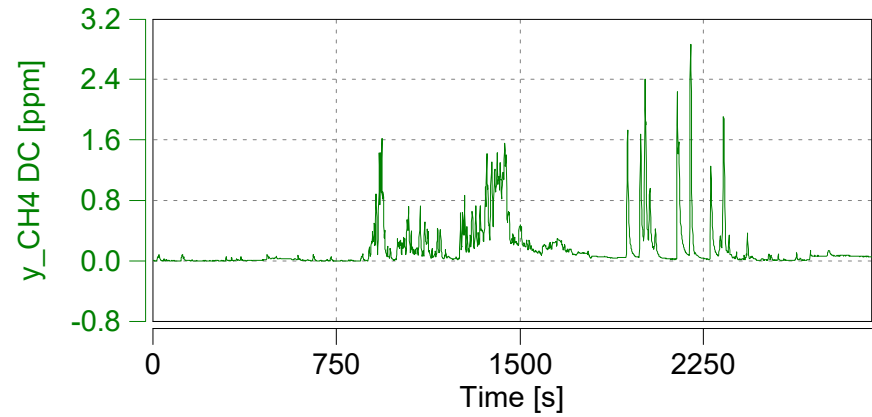
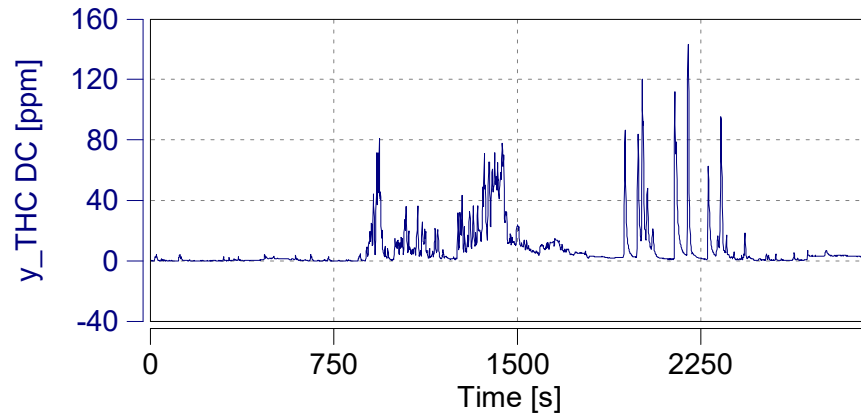


NOx - AVL 493



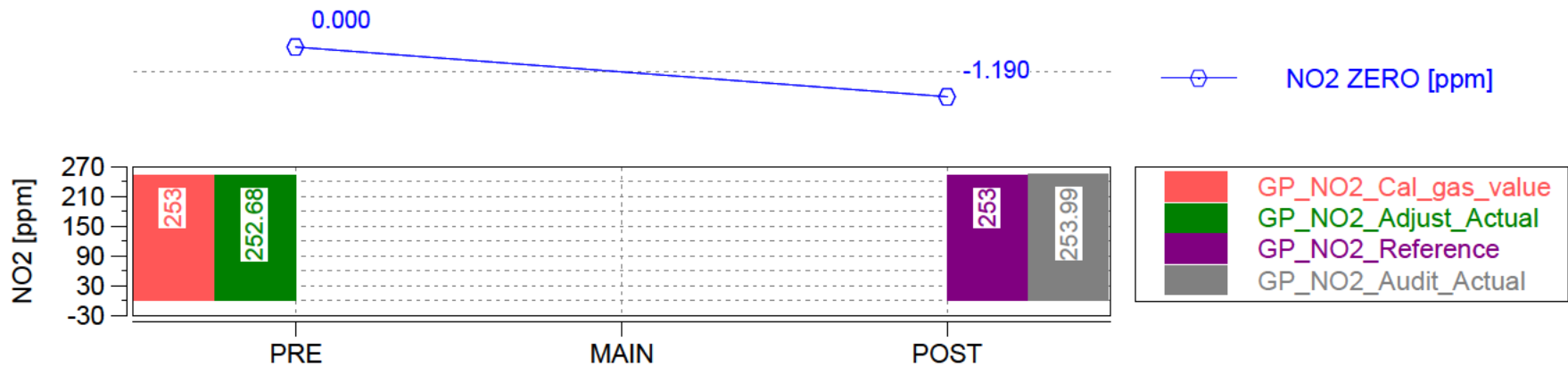
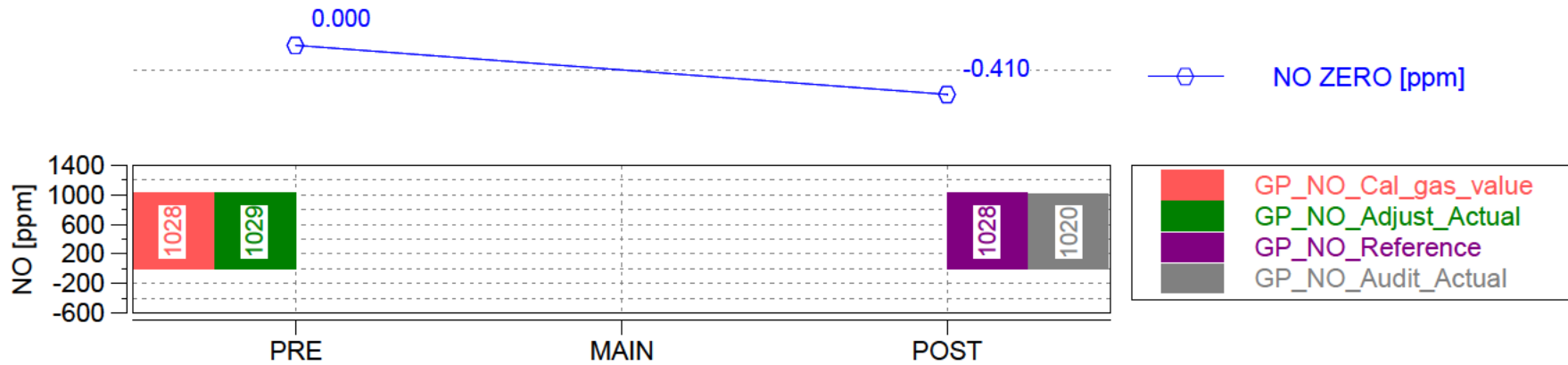
Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

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



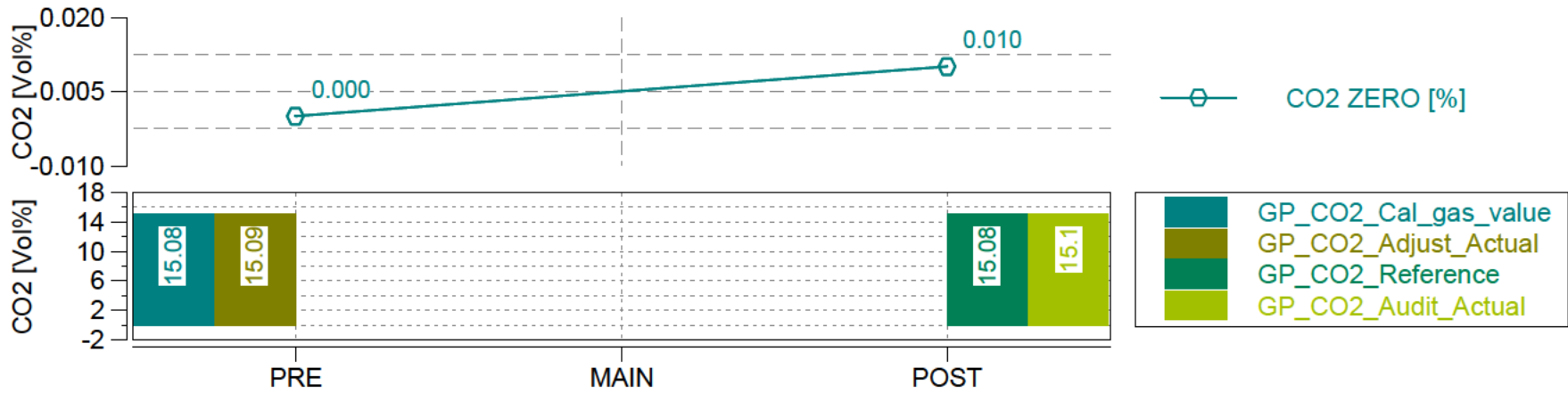
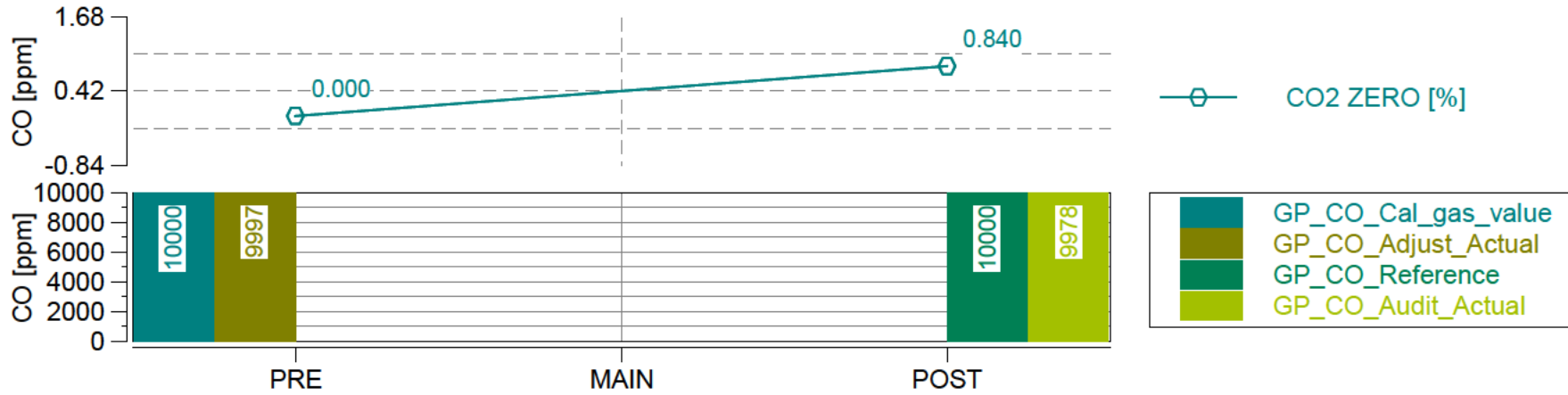
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Legislation:

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



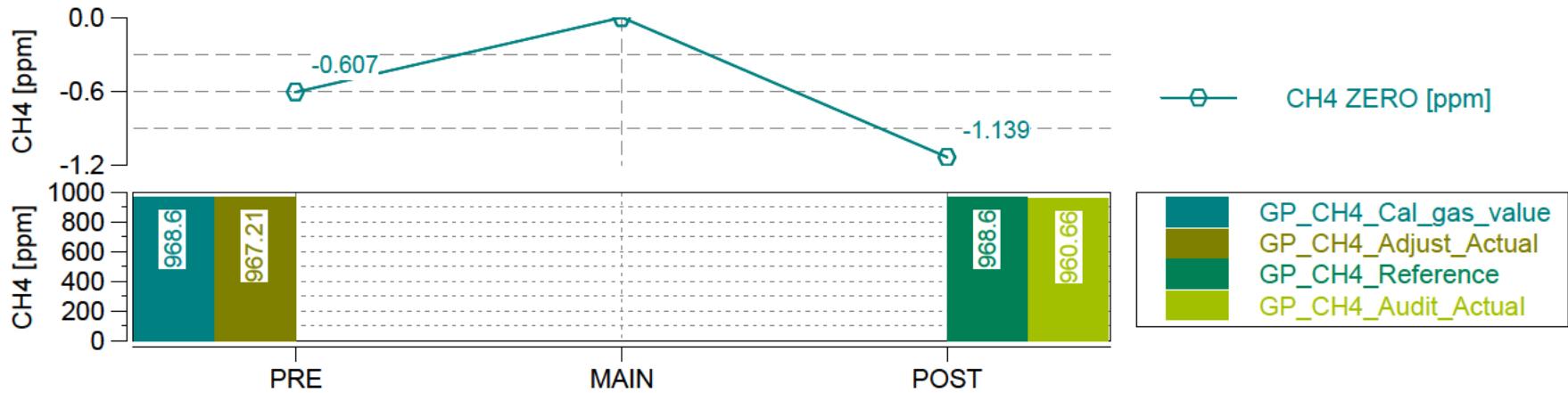
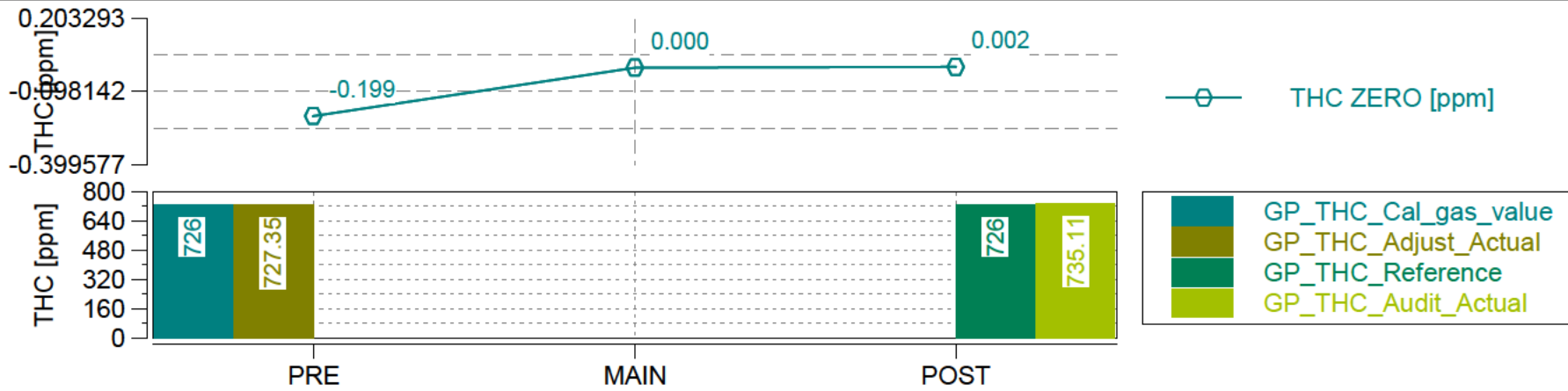
Concerto Version: 480 Build 316, Serial Number: 1120
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 Legislation:

Vehicle: Artone / 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: Artone / 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: Artone / 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

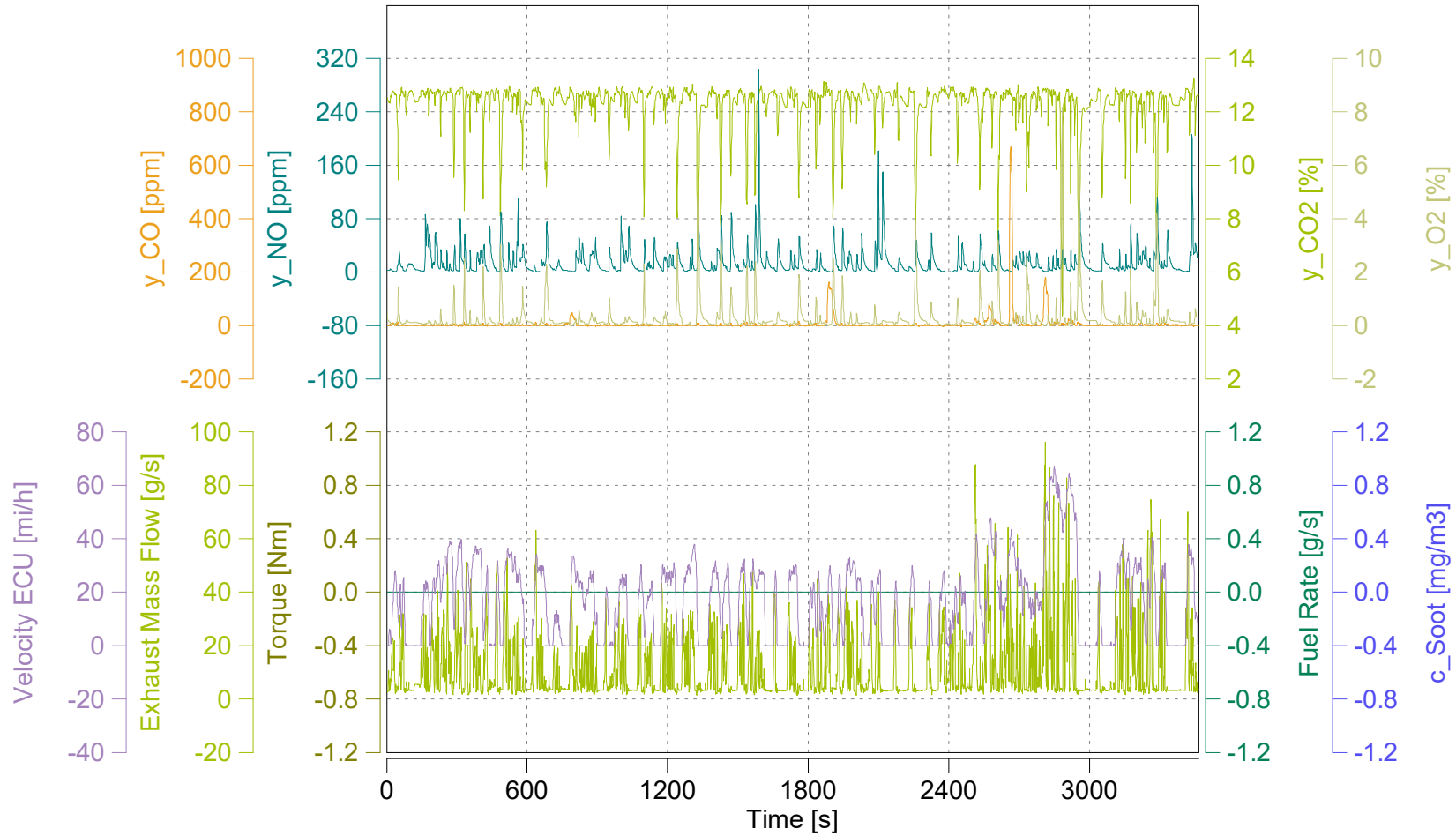
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0



Concerto M.O.V.E., 2019



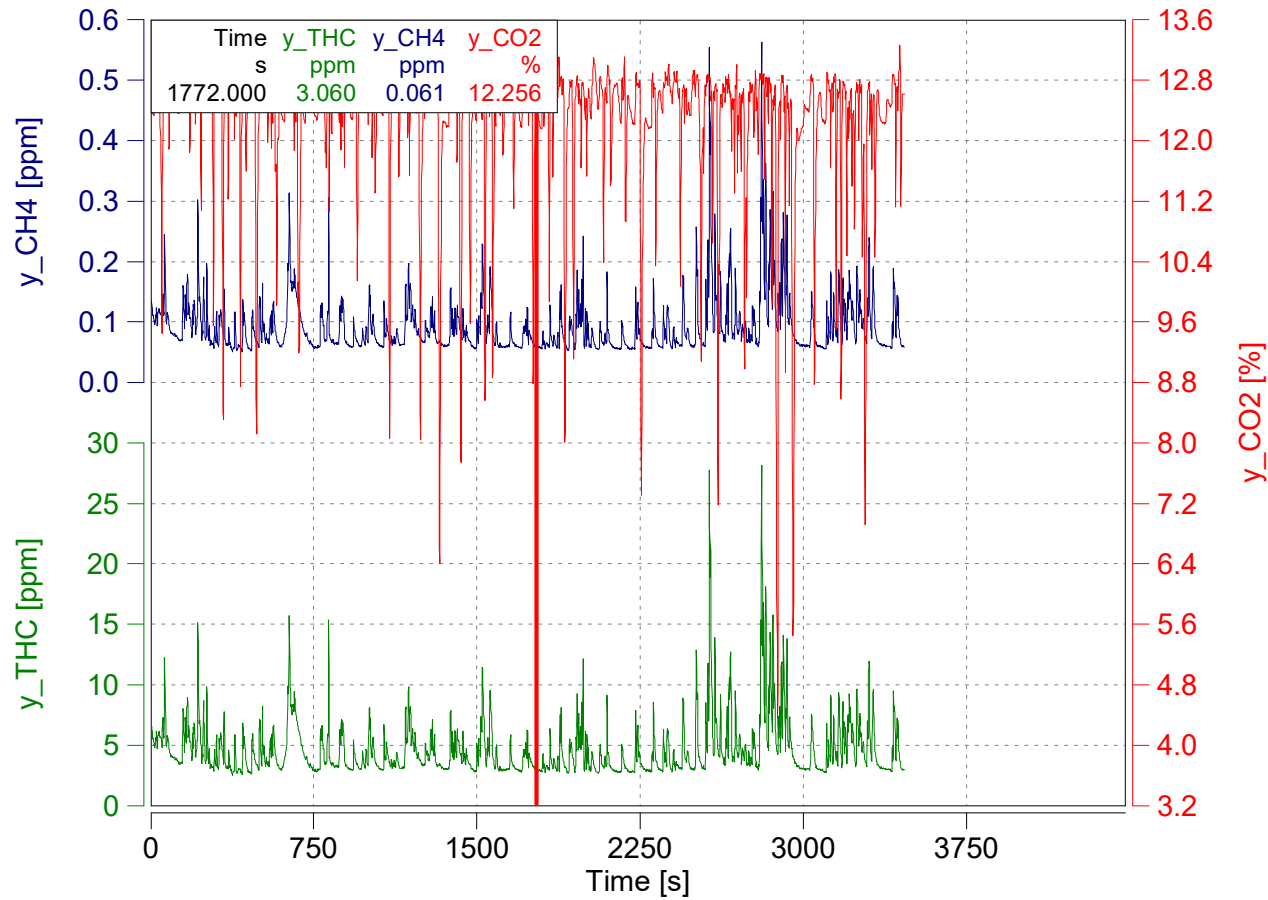
Concerto Version: 480 Build 316, Serial Number: 1120

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

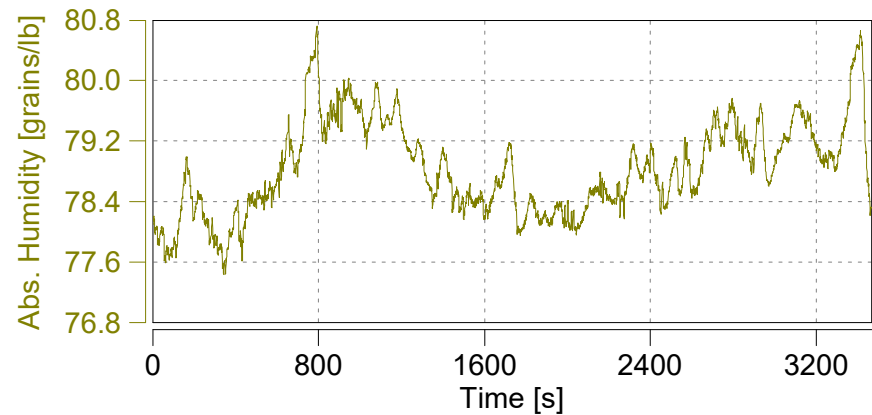
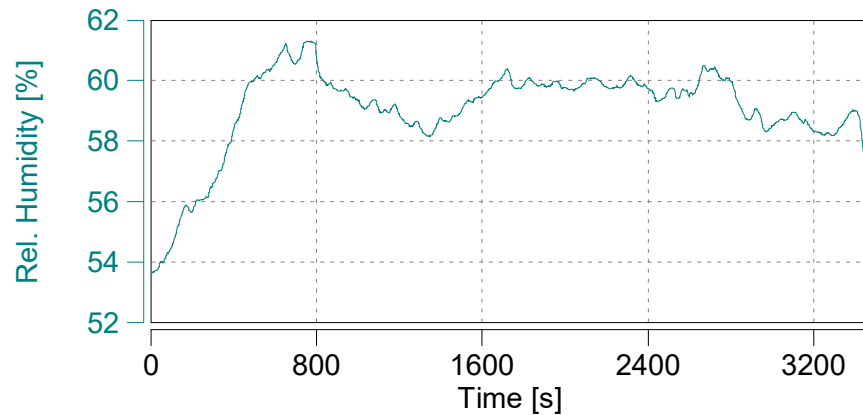
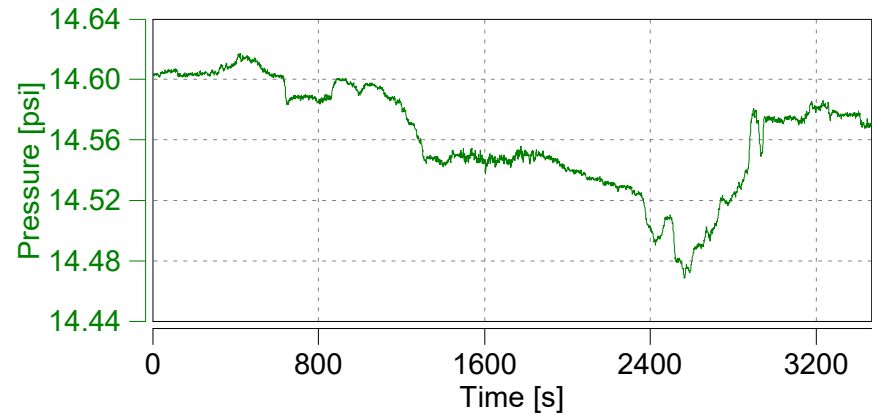
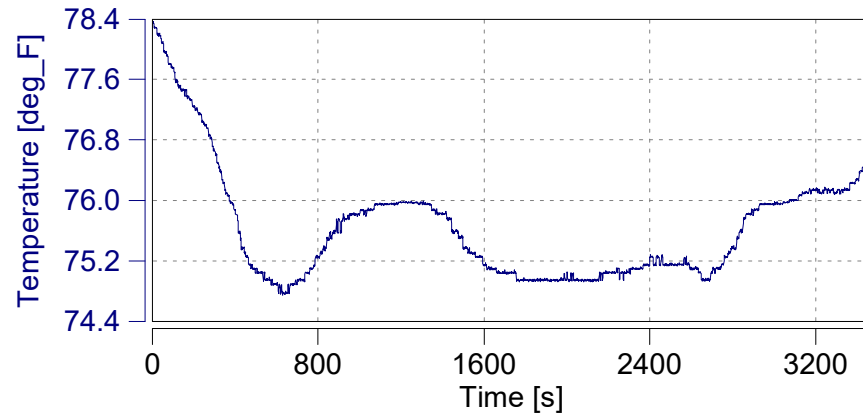
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0

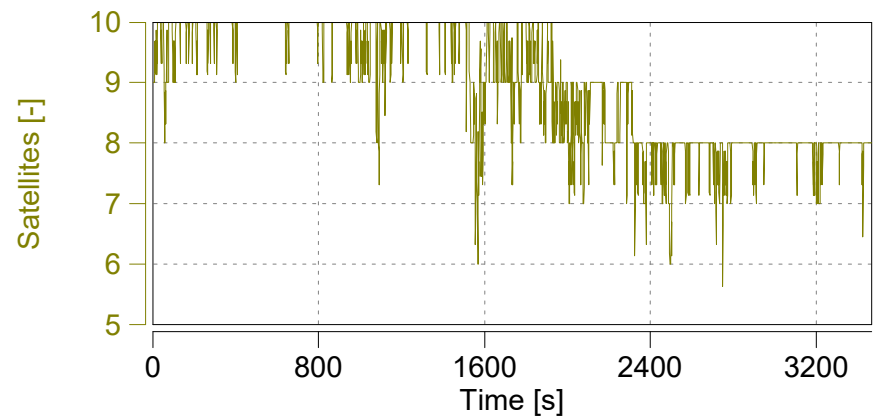
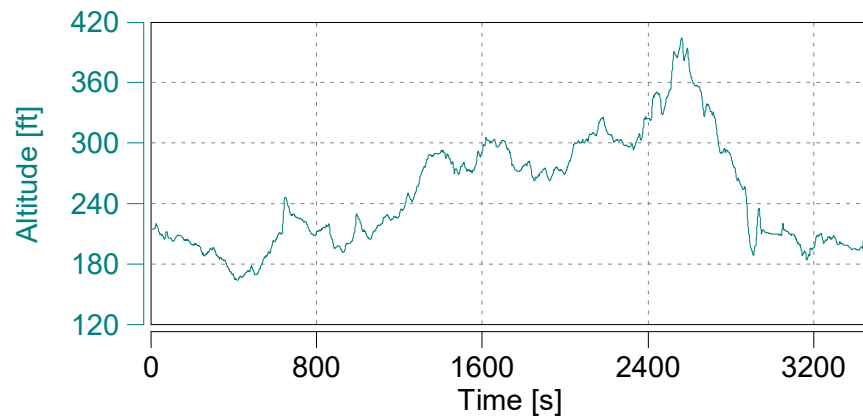
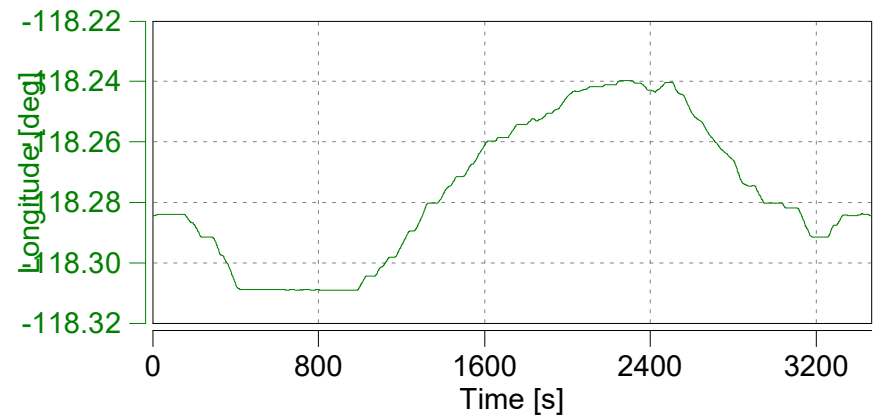
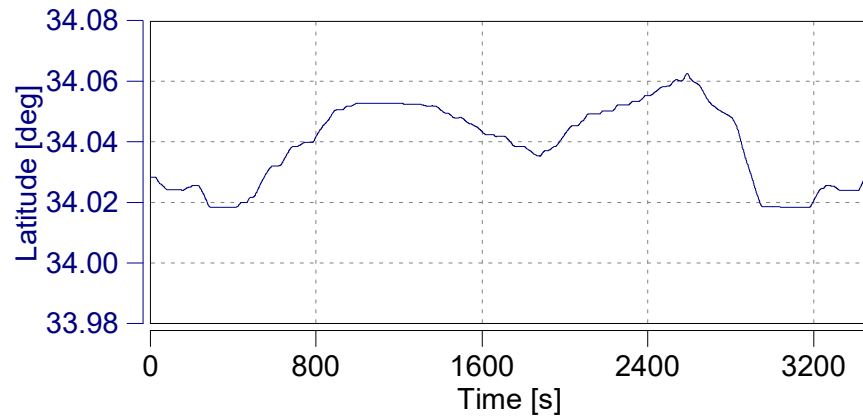


Concerto M.O.V.E., 2019



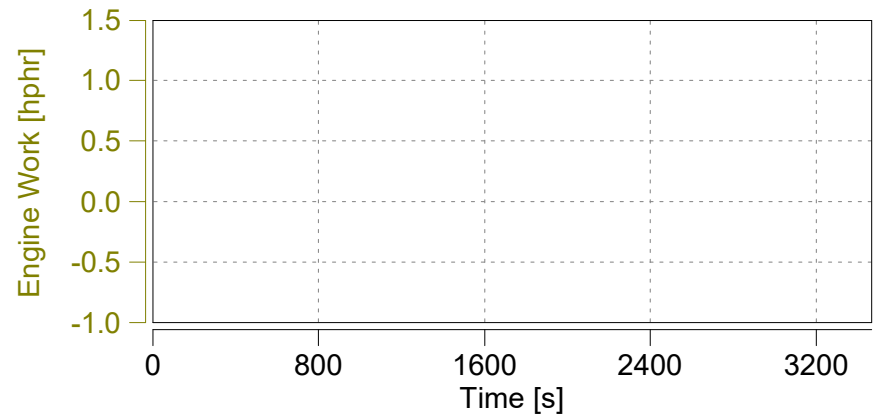
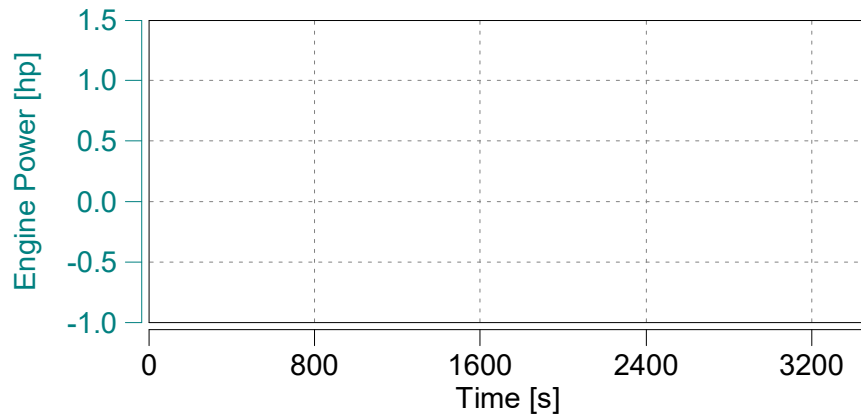
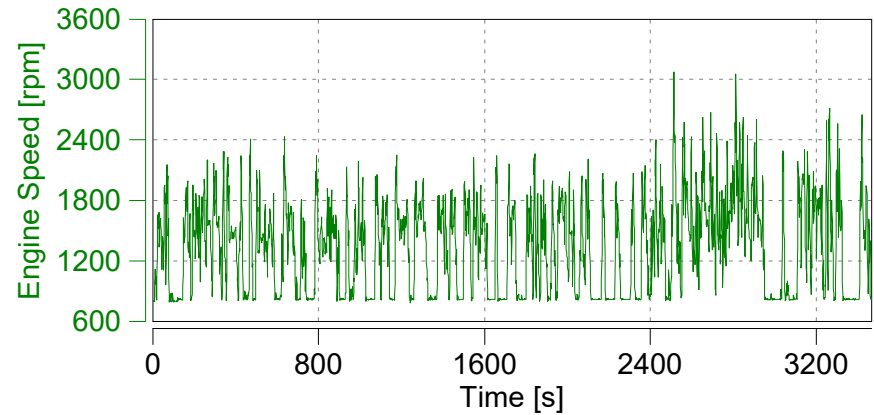
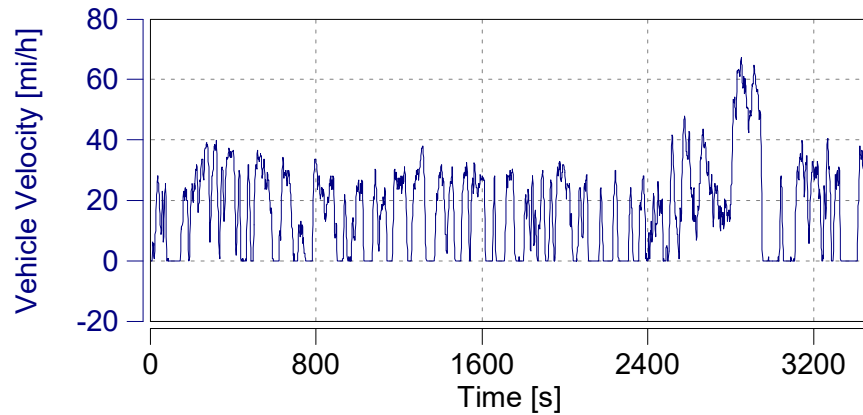
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



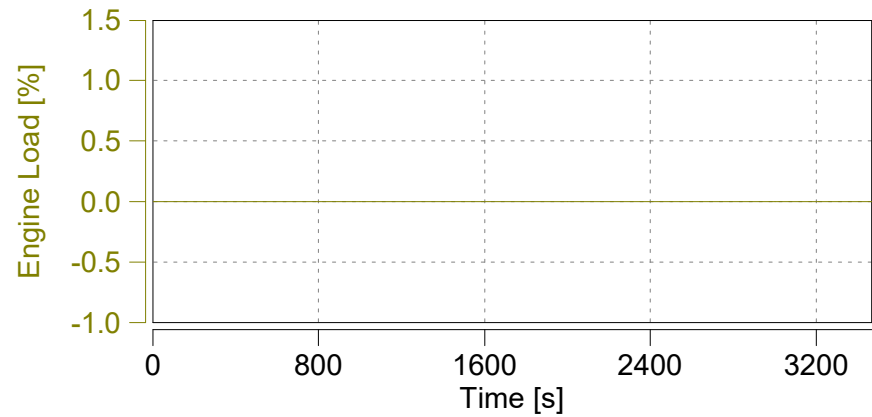
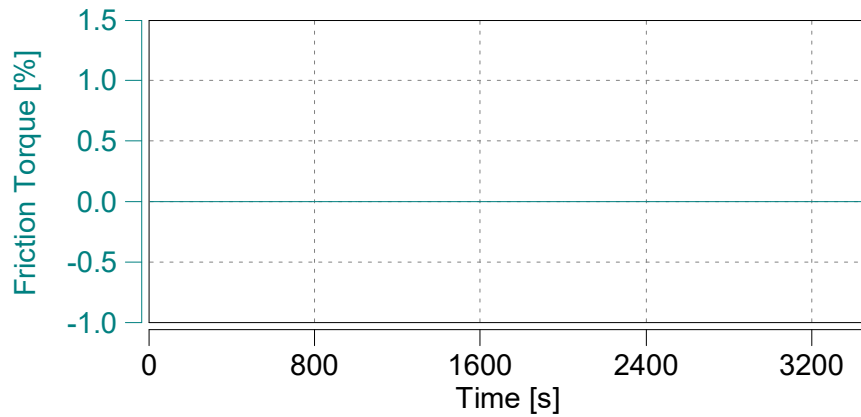
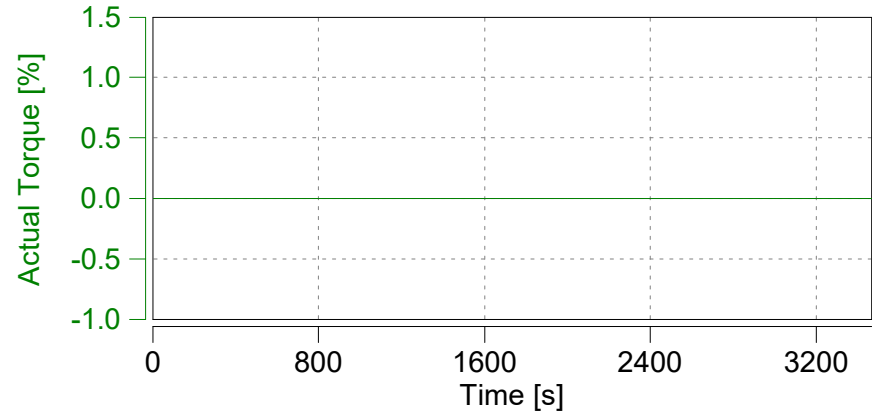
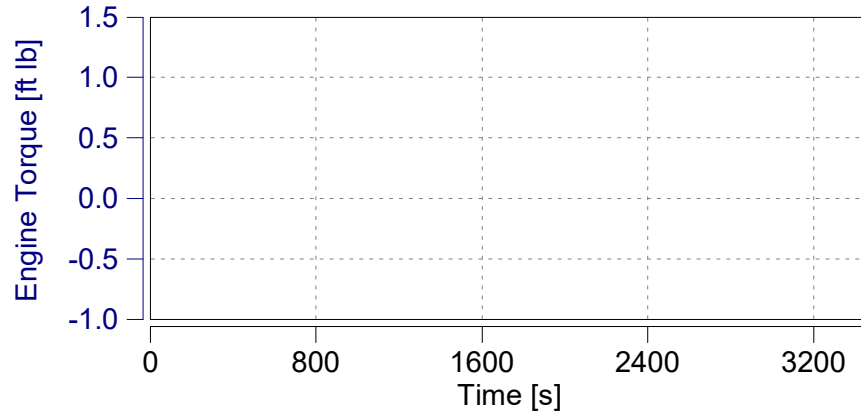
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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: City

Page: Engine (3)

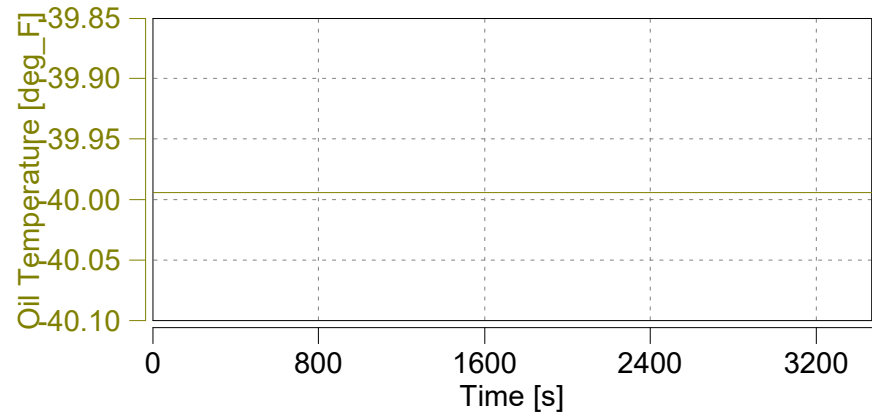
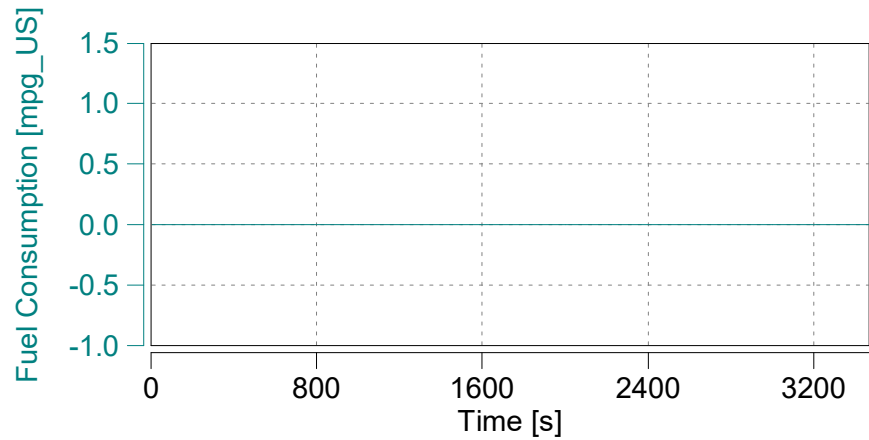
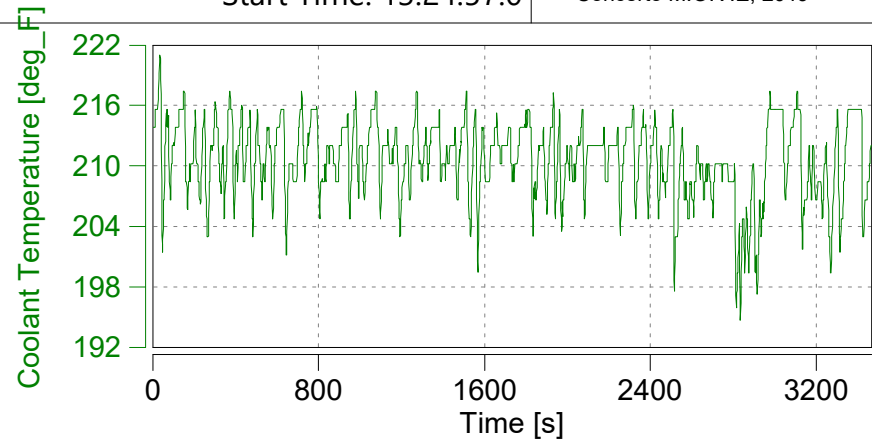
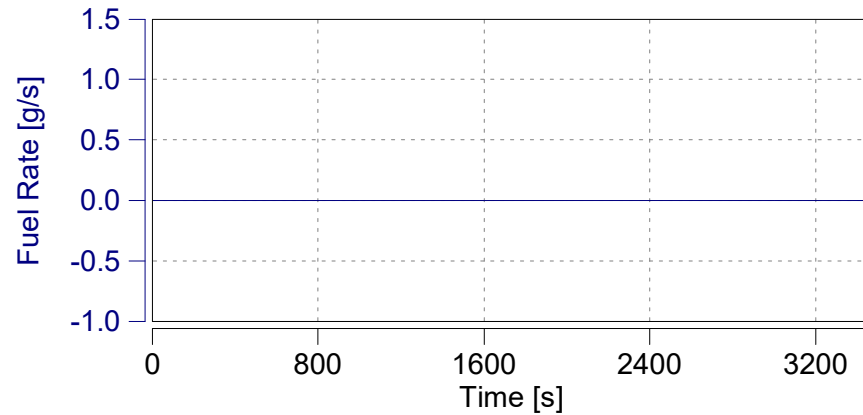
'City'

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)

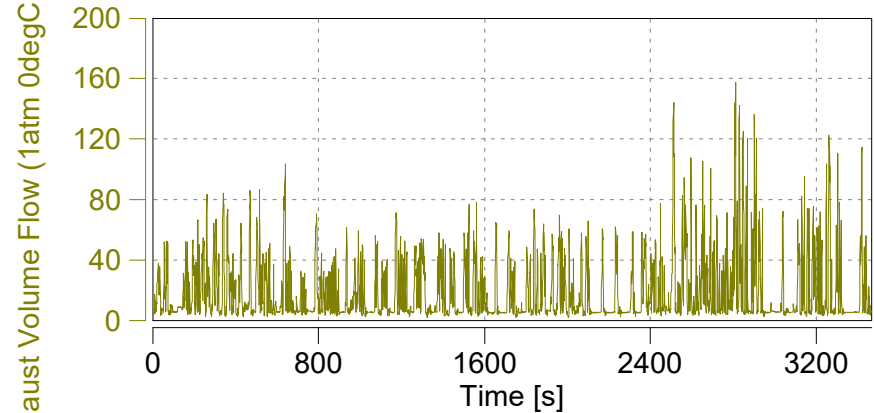
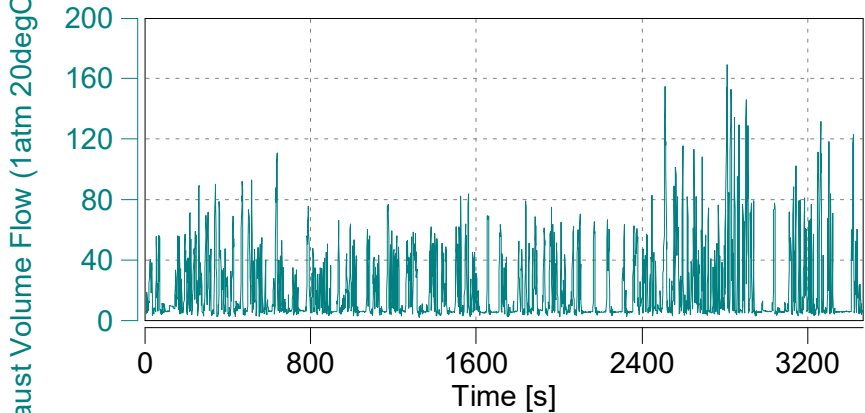
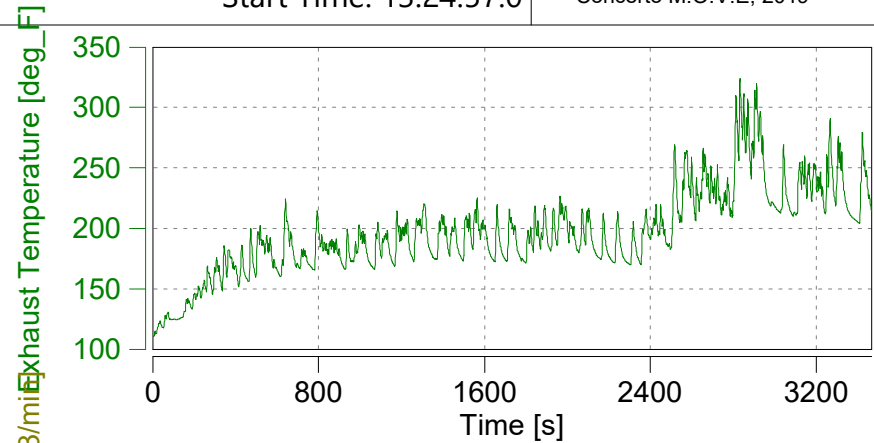
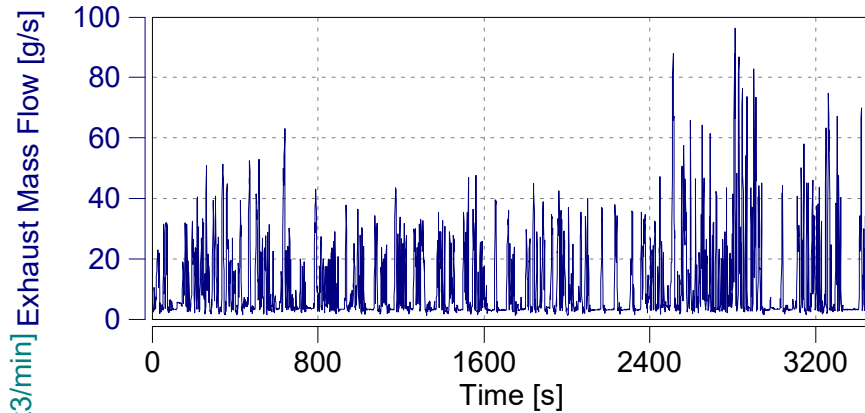
'City'

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)

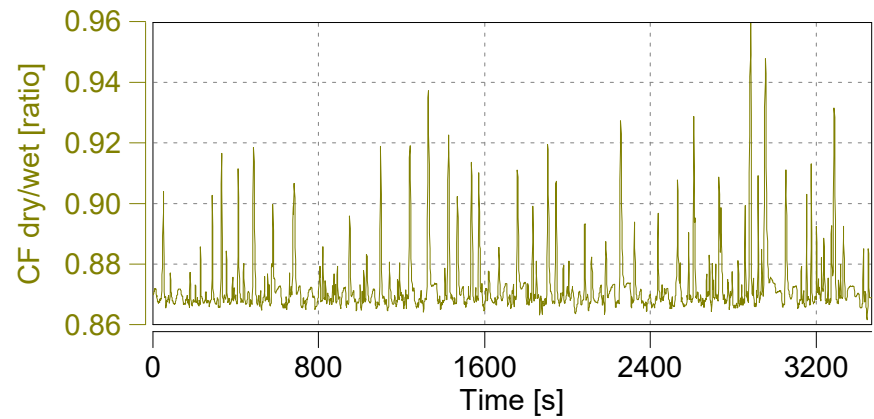
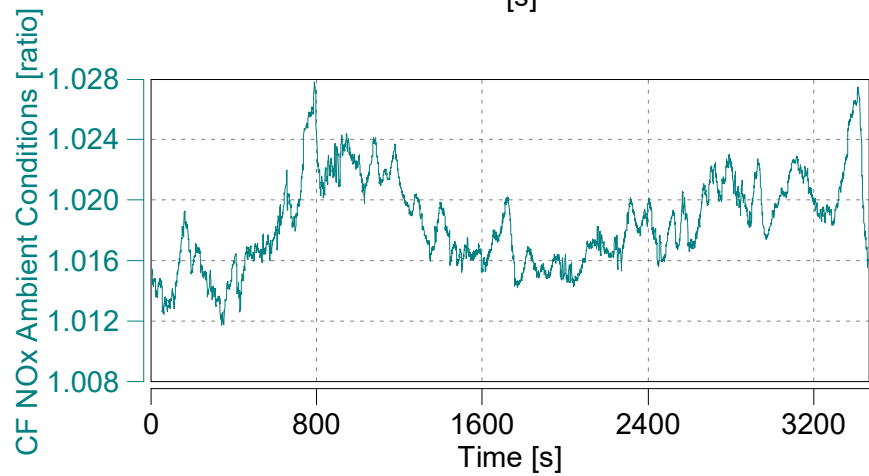
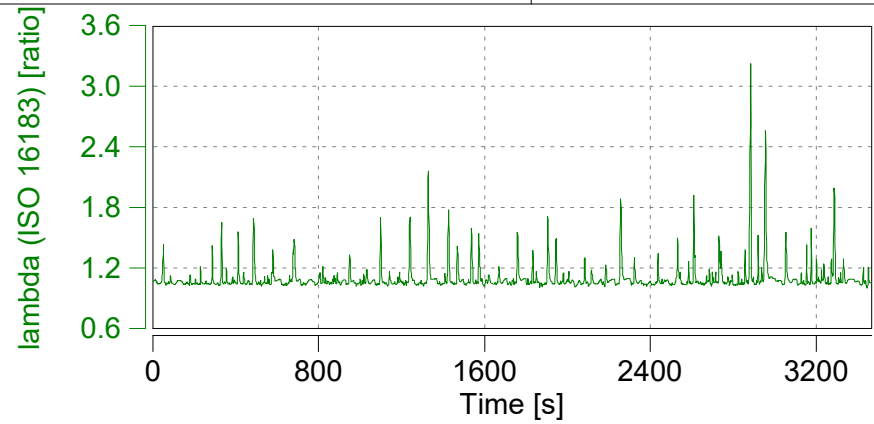
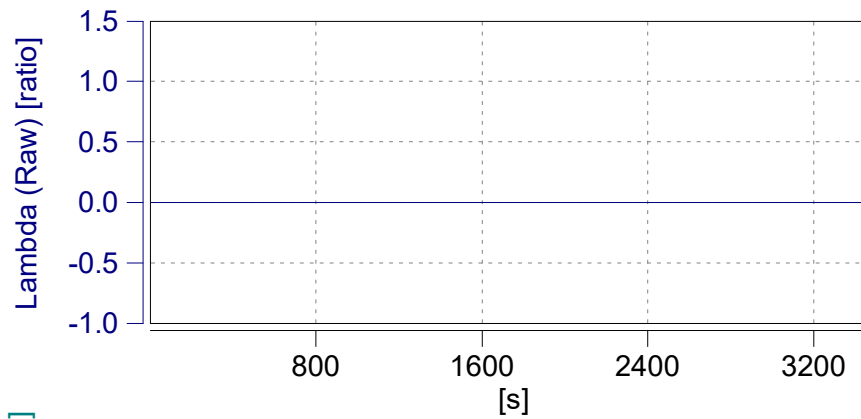
'City'

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)

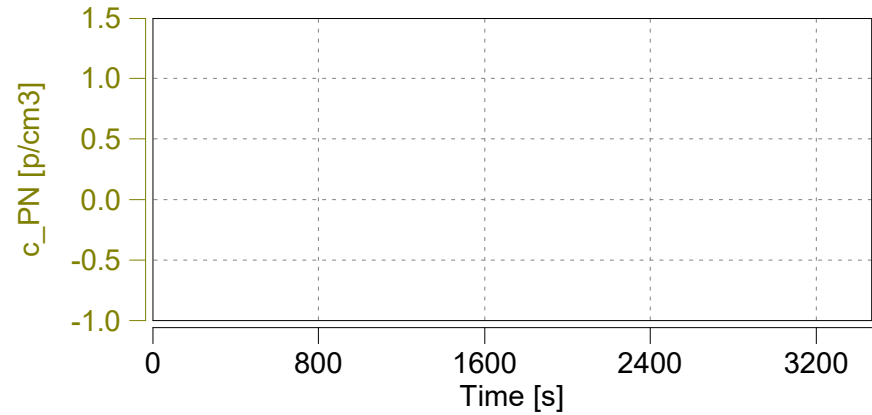
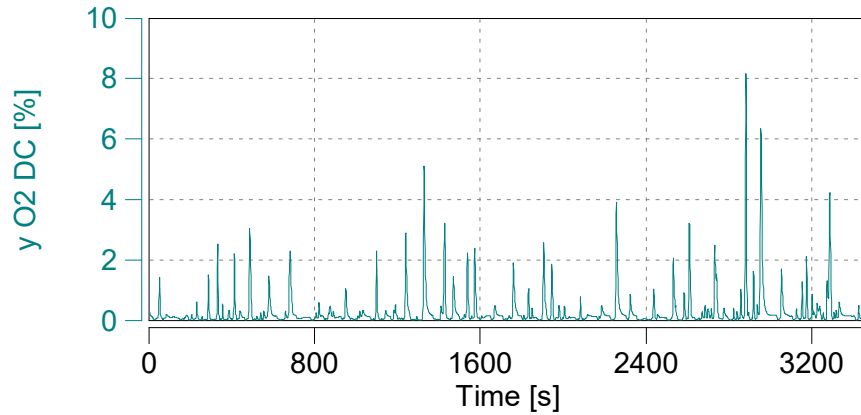
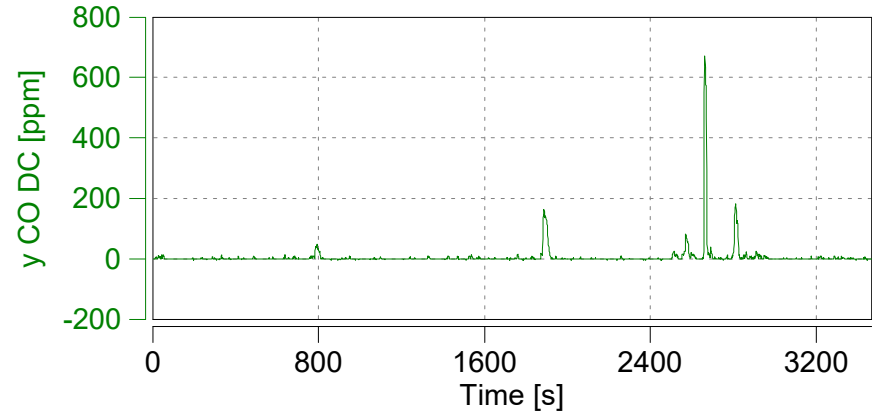
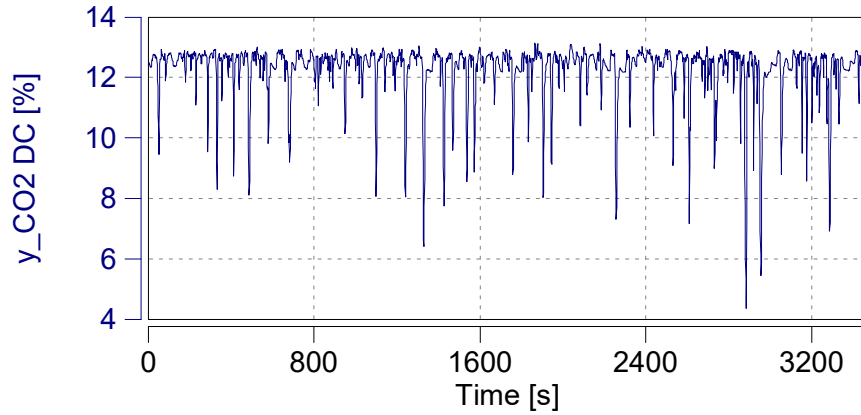
'City'

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)

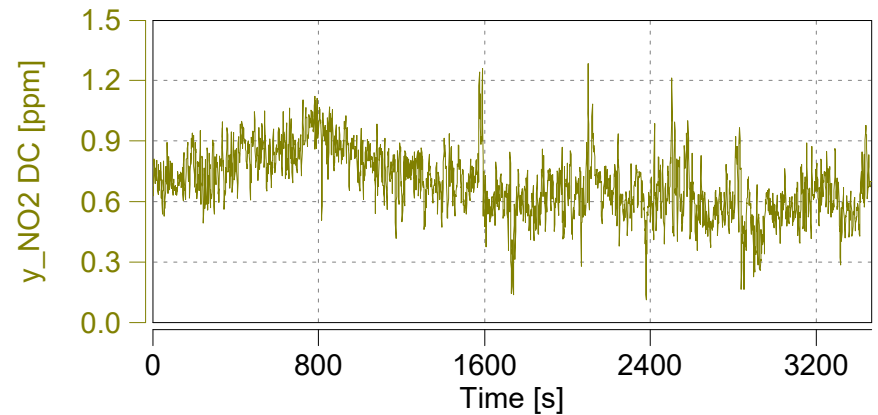
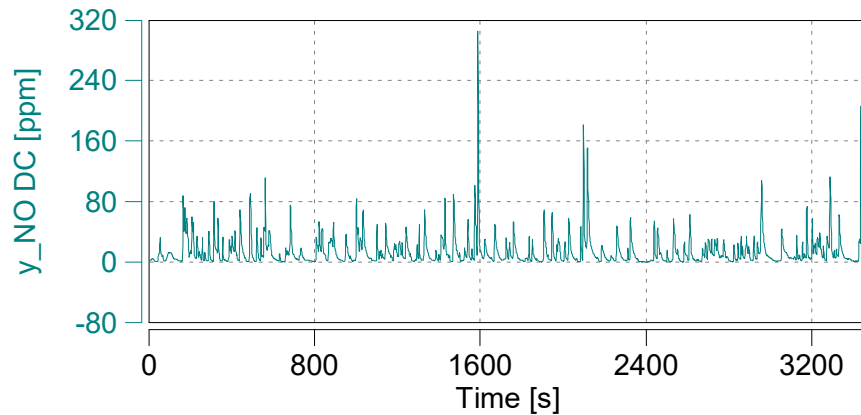
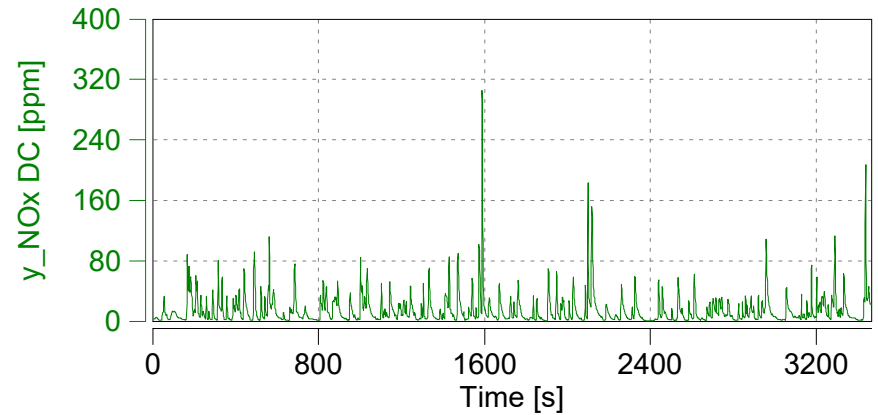
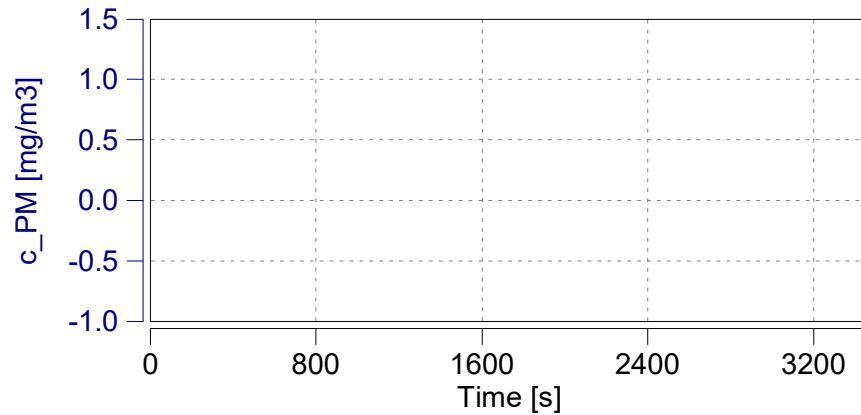
'City'

Start Date: 09/27/2019

Start Time: 13:24:57.0

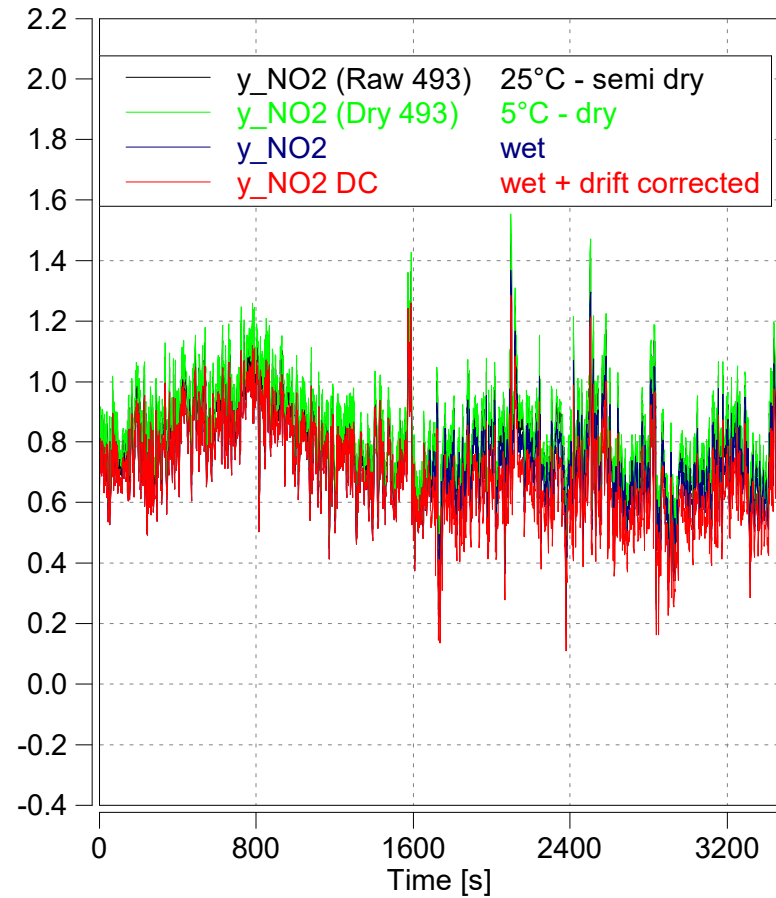
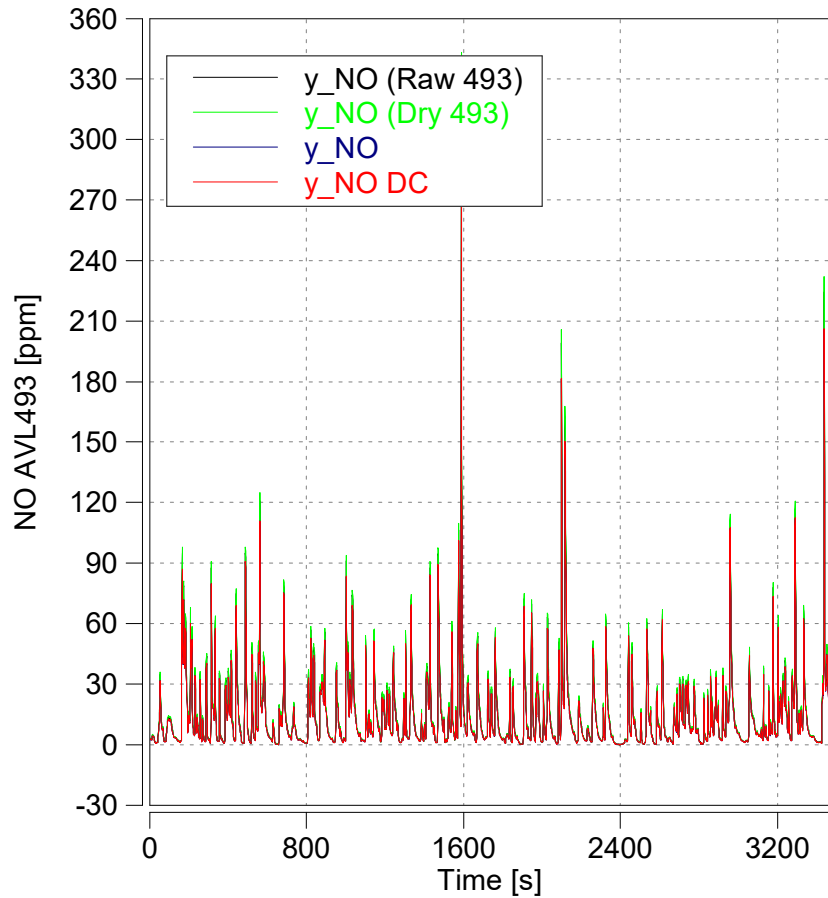


Concerto M.O.V.E., 2019



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

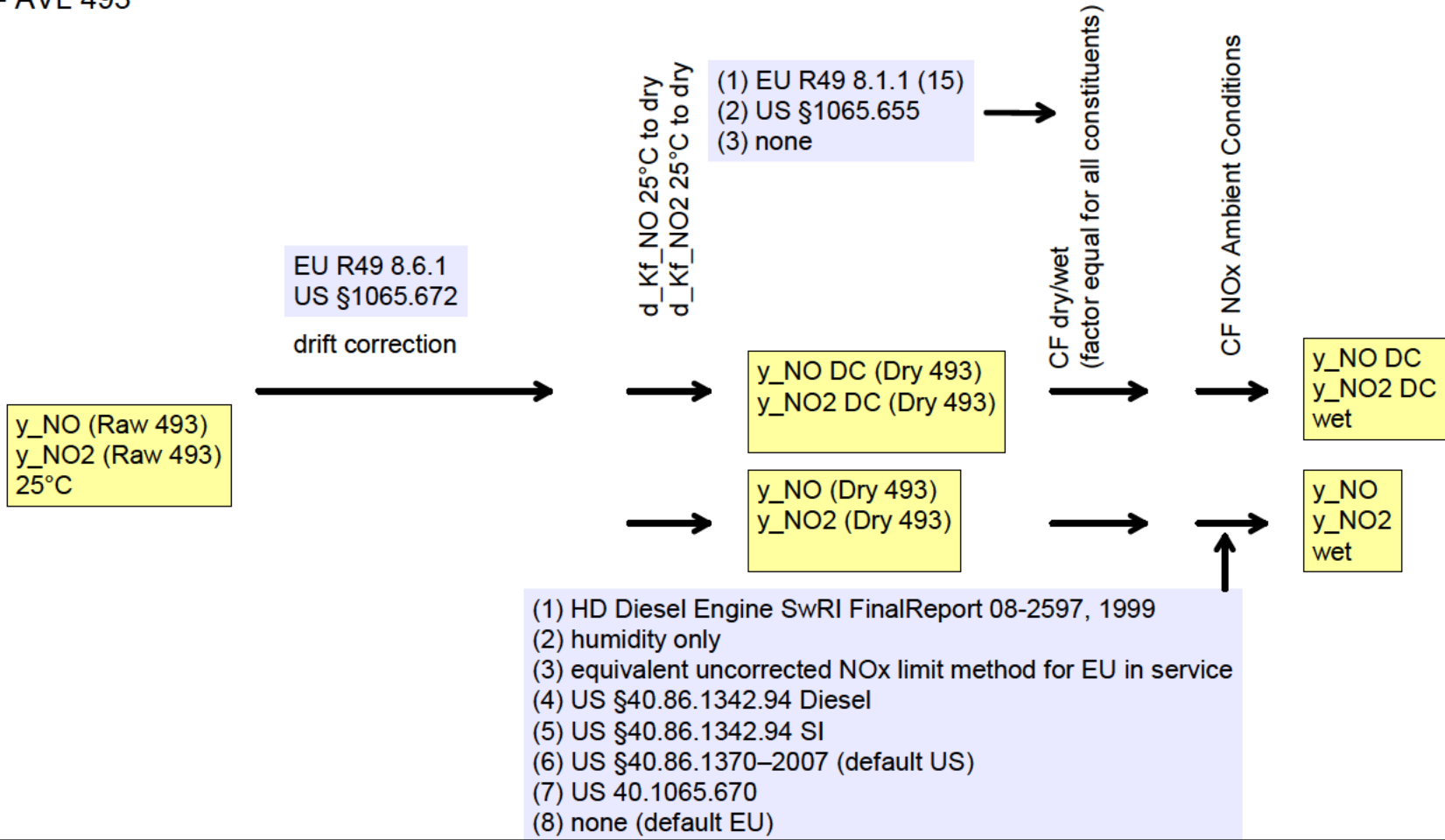


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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



Case: City

Page: Corrected Emissions (5)

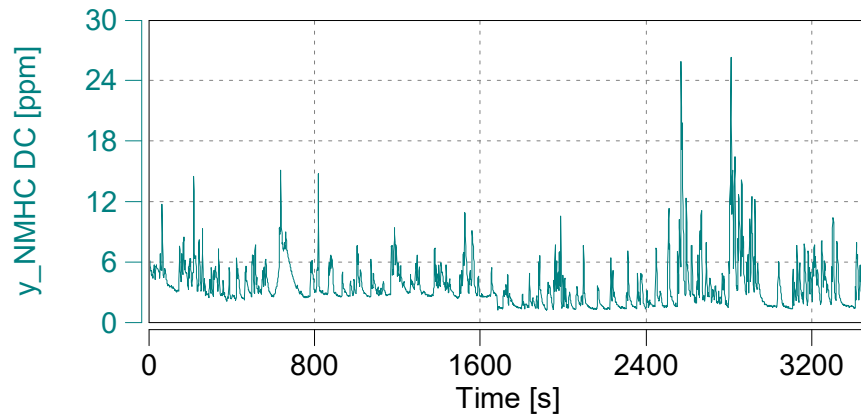
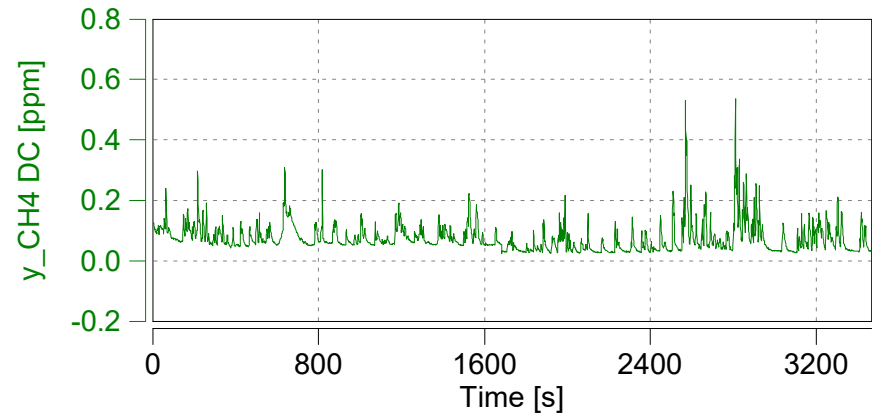
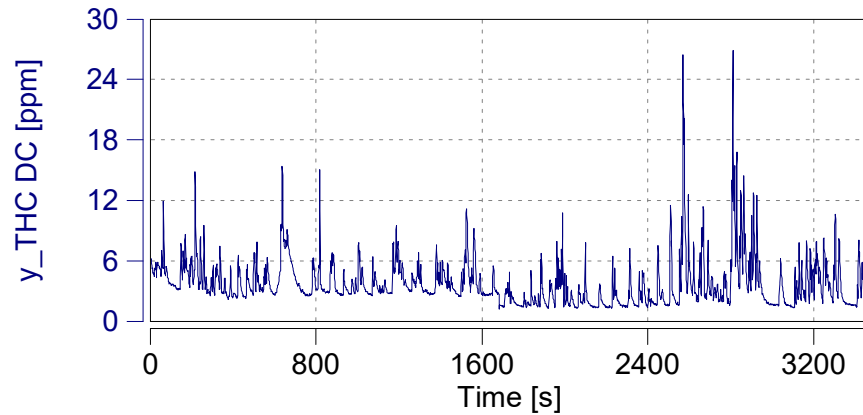
'City'

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

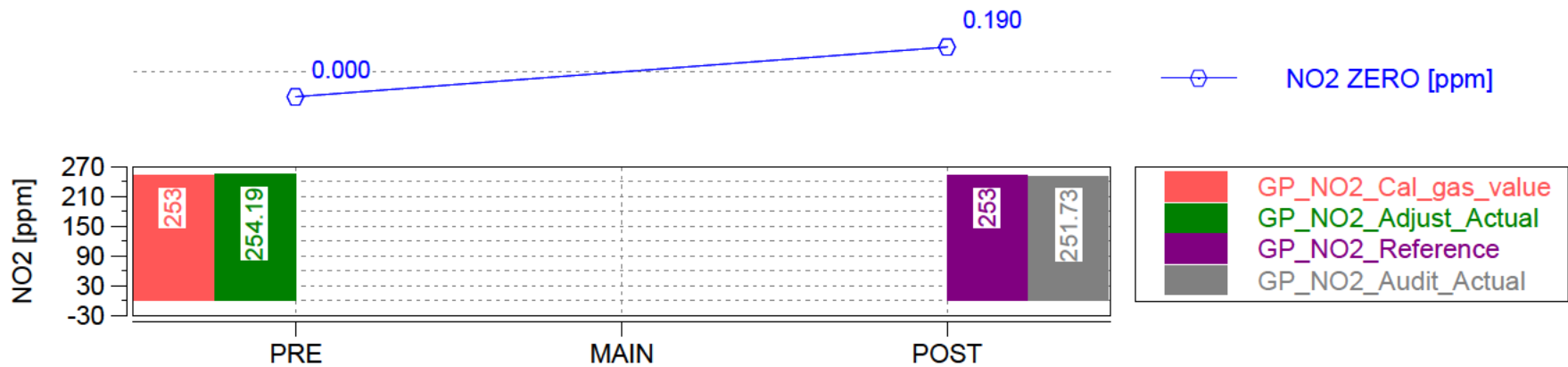
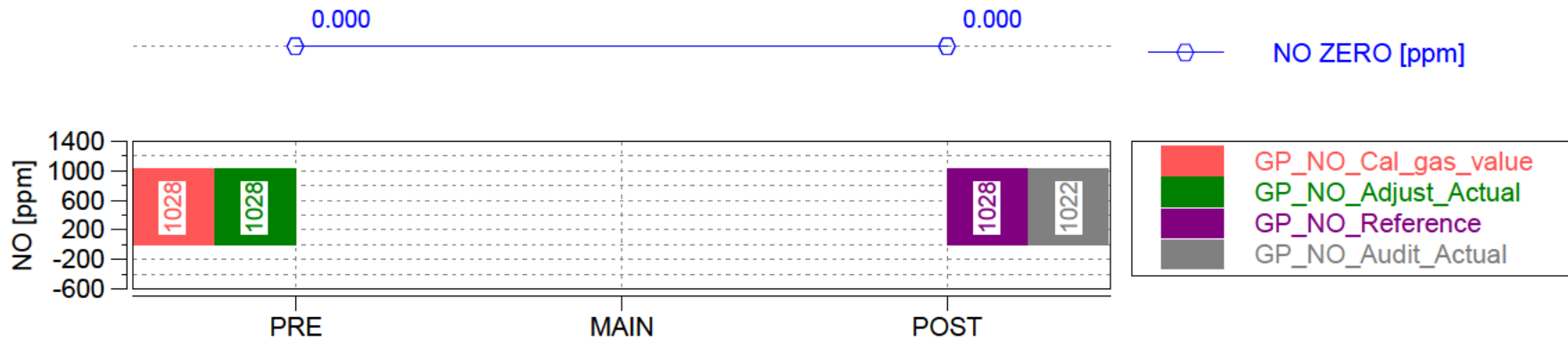
Legislation:

Vehicle: A6 / 2.0 L

Engine: /

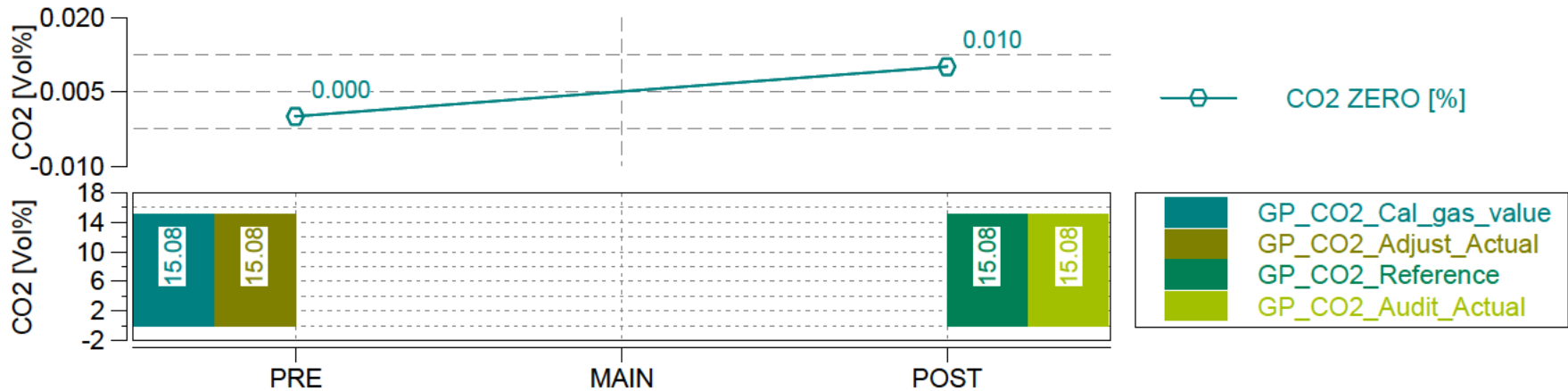
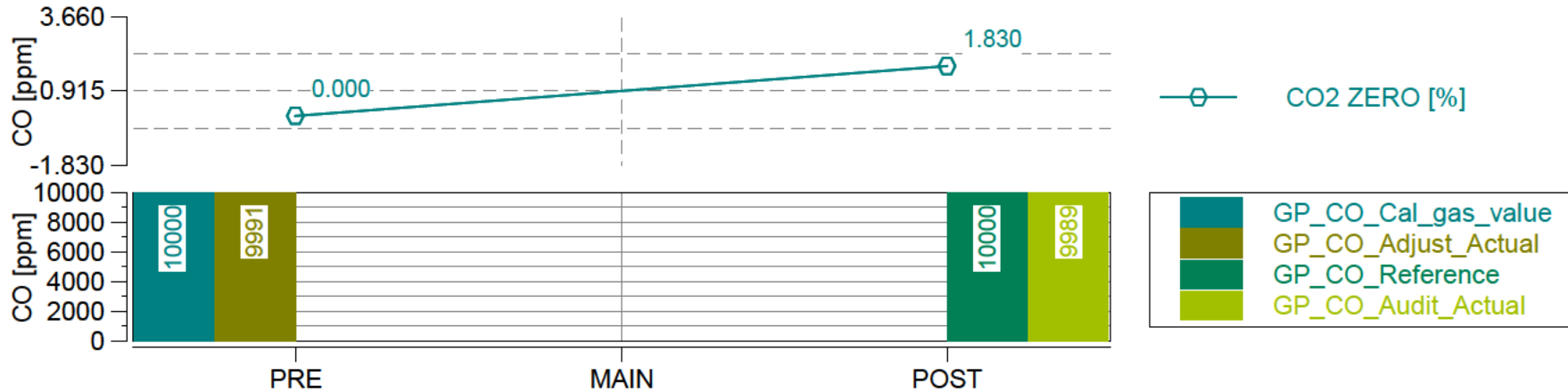
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



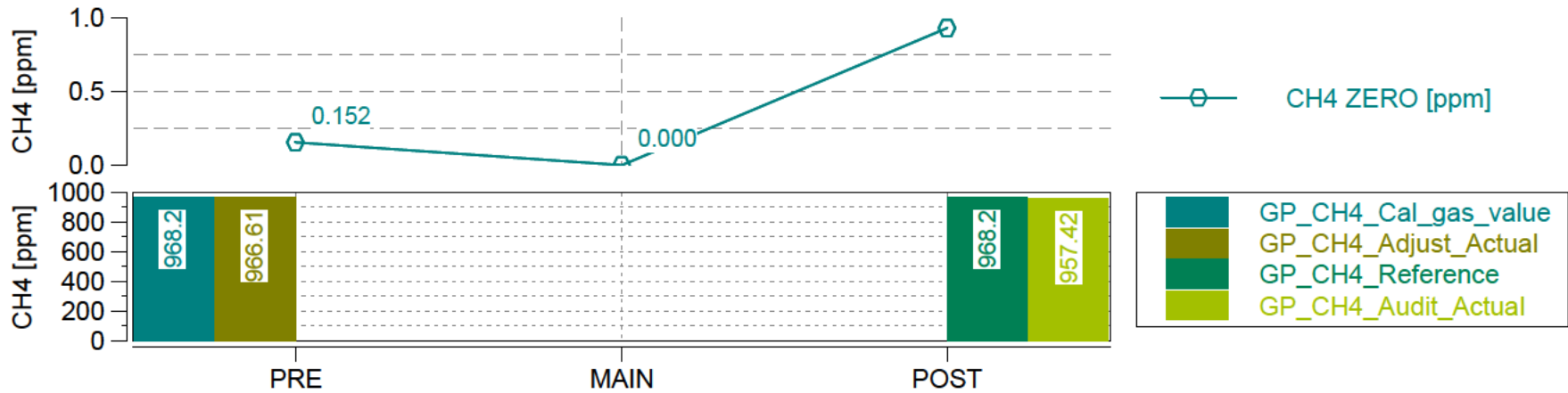
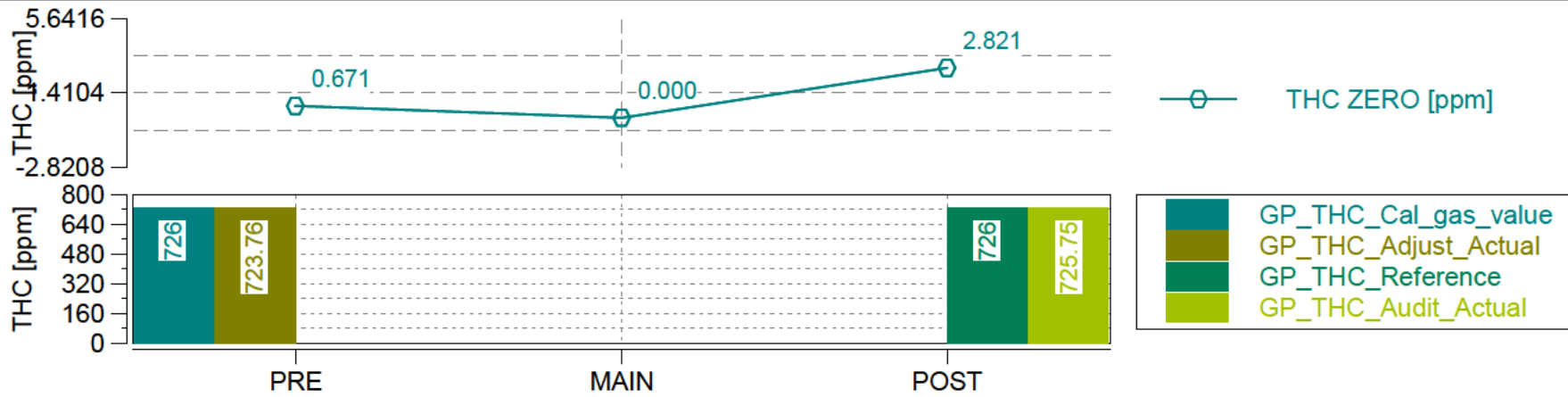
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

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\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: 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



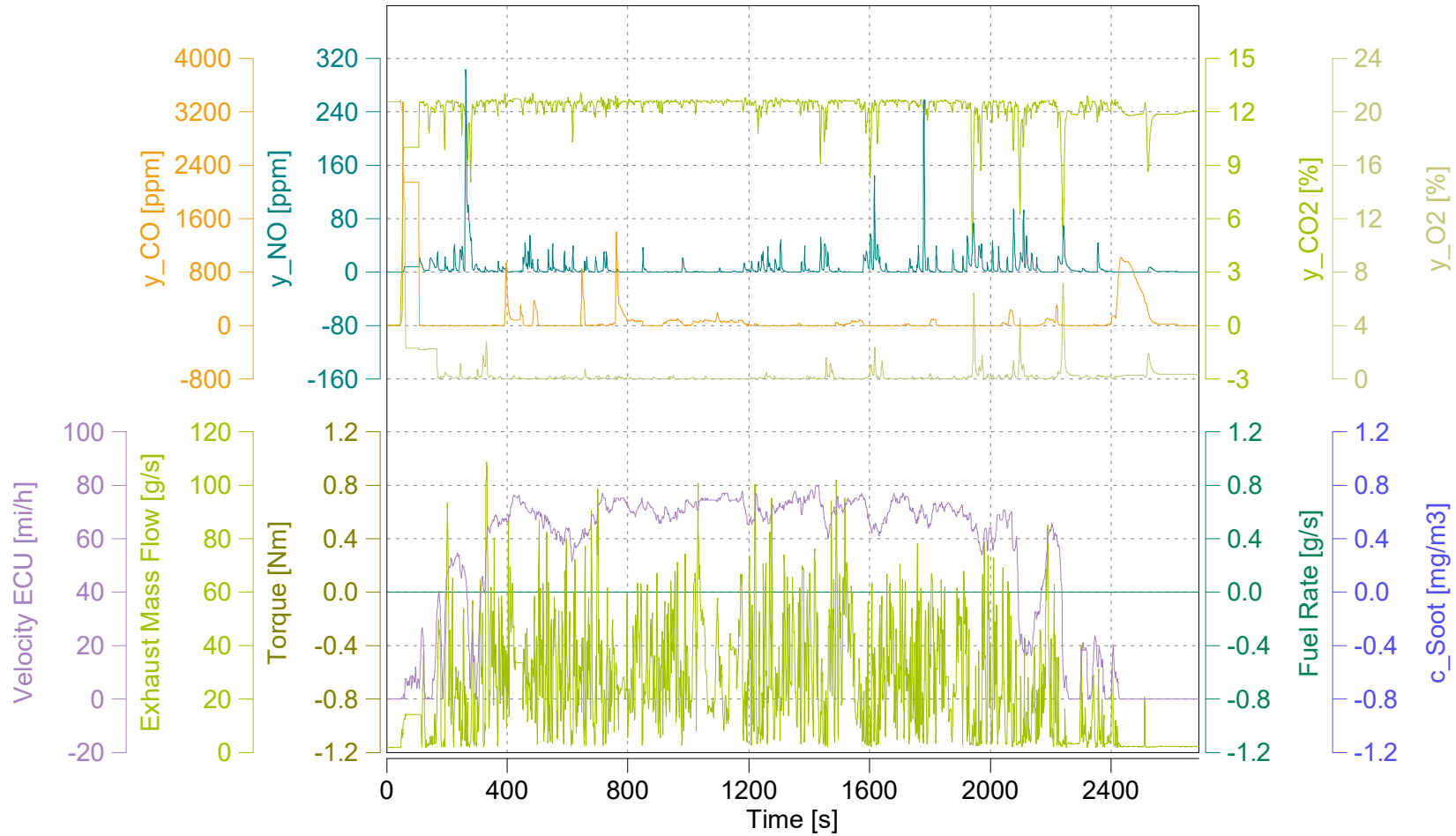
Concerto M.O.V.E., 2019

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
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	12.10799	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	6.21355	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	4.08	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	4.06	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)	26.33	mpg_US	tot THC DC	0.17343	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	26.44	mpg_US	tot NMHC DC	0.16043	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4 DC	0.00384	g	DS CO2 DC	325.55228	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO DC	3.85633	g	DS CO DC	0.10169	g/mi
Trip Fuel Economy EU GGE (ac)	26.33	mpg_US	tot CO2 DC	12346.07534	g	DS THC DC	0.00457	g/mi
Trip Fuel Economy US GGE (ac)	26.44	mpg_US	tot NO DC (d)	0.46043	g	DS NMHC DC	0.00423	g/mi
Trip Av. Eng. Speed	1601.26	rpm	tot NO2 DC	-0.01190	g	DS CH4 DC	0.00010	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.44853	g	DS NO DC (d)	0.01214	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	-0.00031	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.01183	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 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	75.36	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Av. Humidity	40.34	%	Trip Av. Veh. Speed	50.73375	mi/hr	FS CO DC	n/a	g/kg
Trip Av. GPS Altitude	19.21	m	Trip Velocity Zero	15.53326	%	FS THC DC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	7.47910	%	FS NMHC DC	n/a	g/kg
			Trip Velocity Rural	1.49582	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Motorway	91.02508	%	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

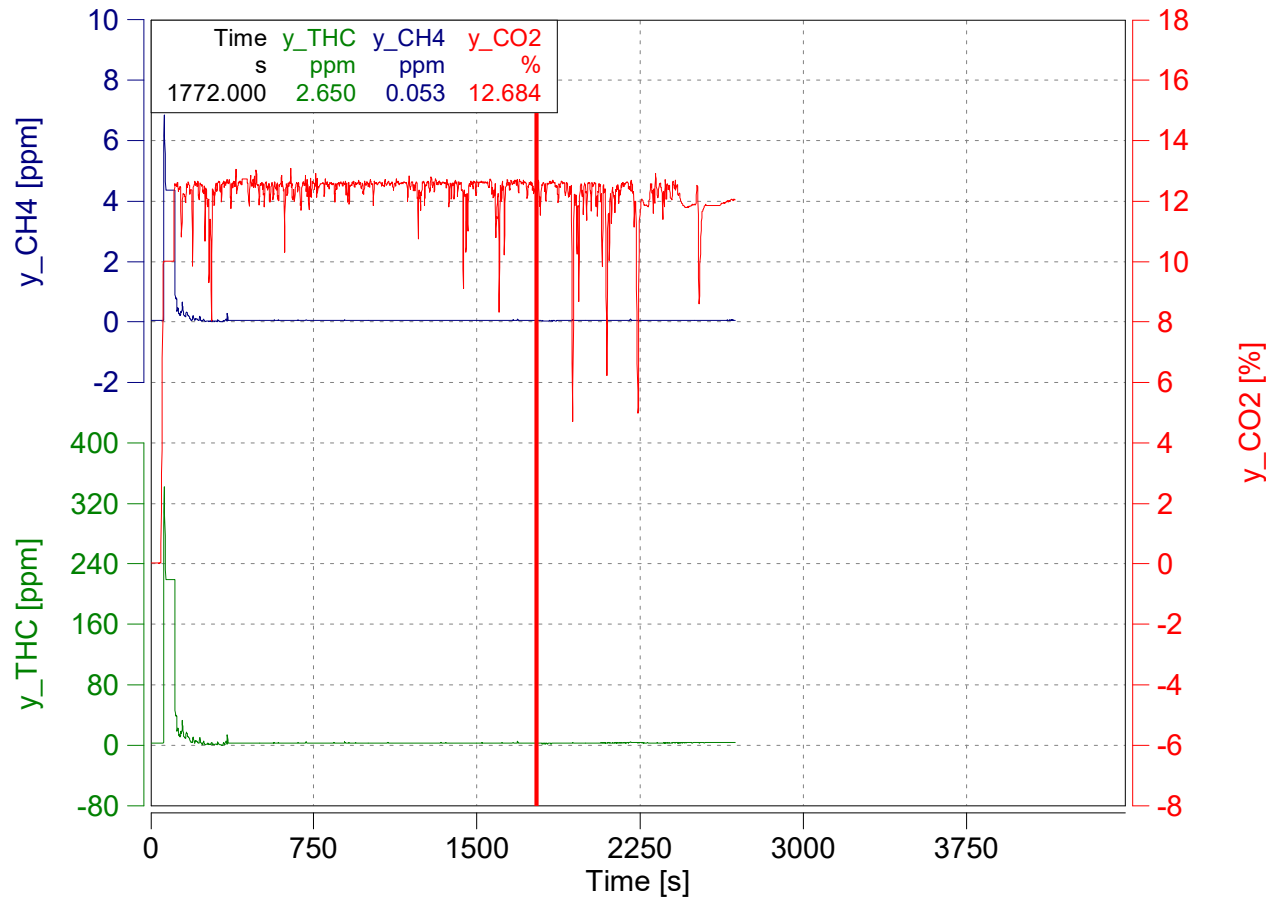
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 Legislation:

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\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

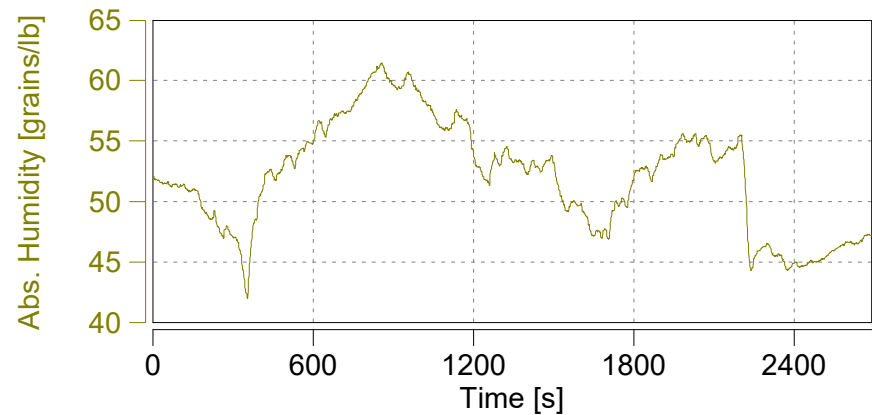
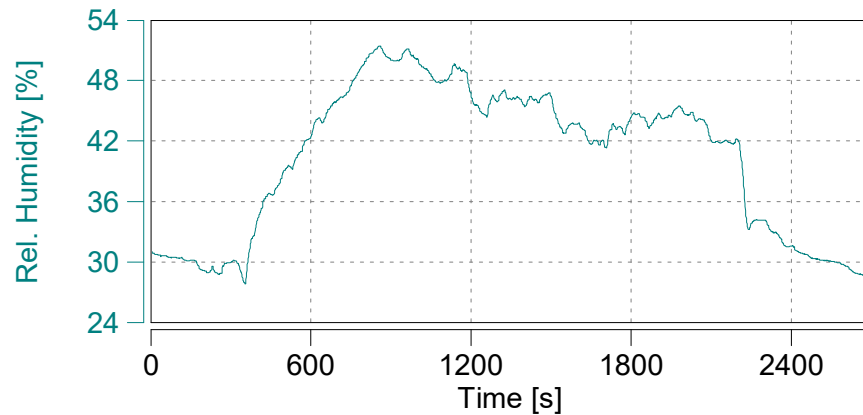
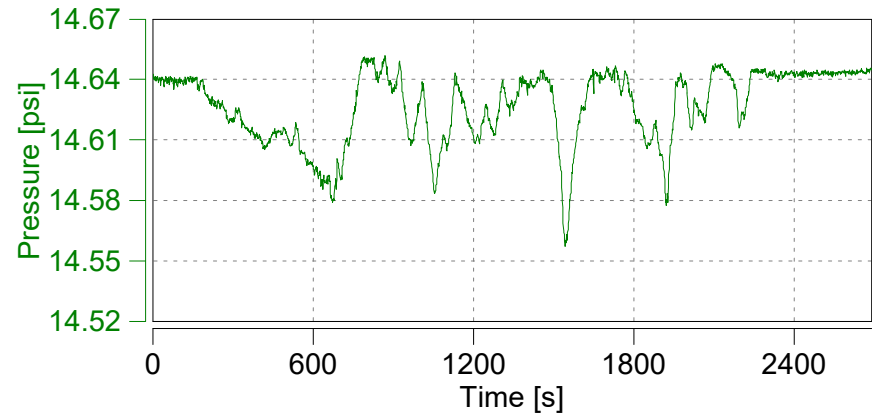
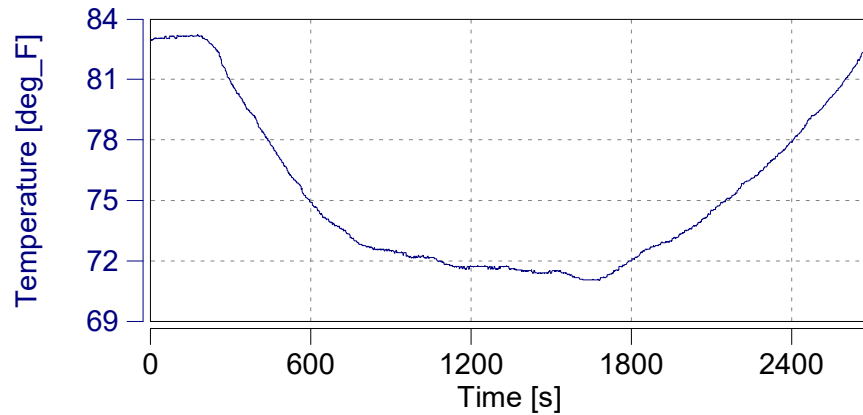
y_THC	s	-4.3
y_CH4	s	-6.3

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

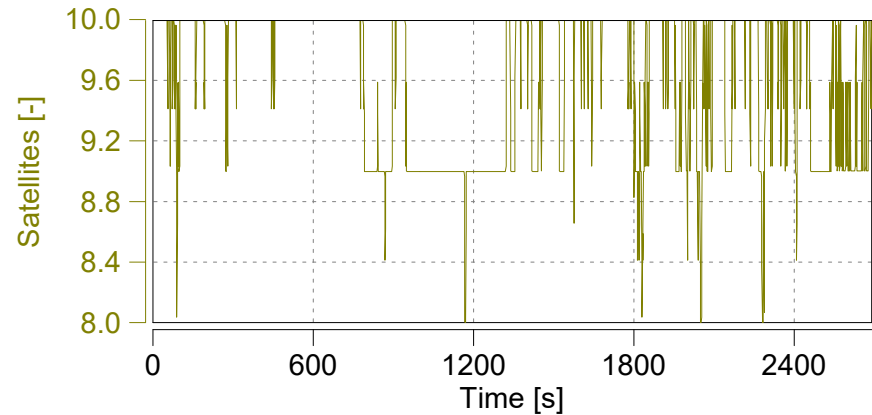
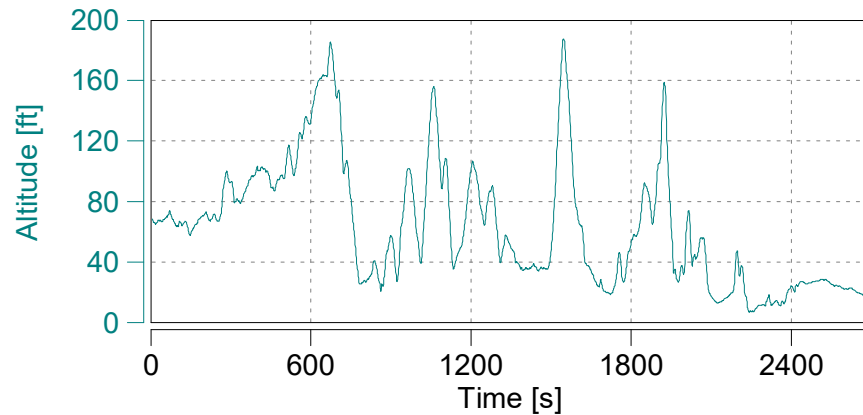
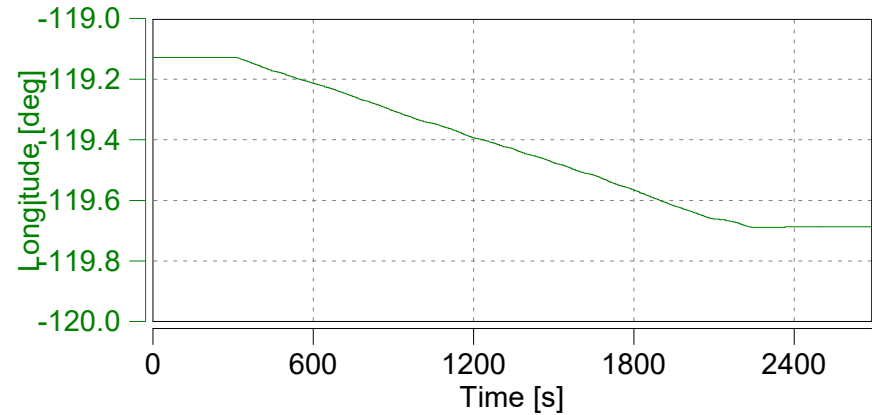
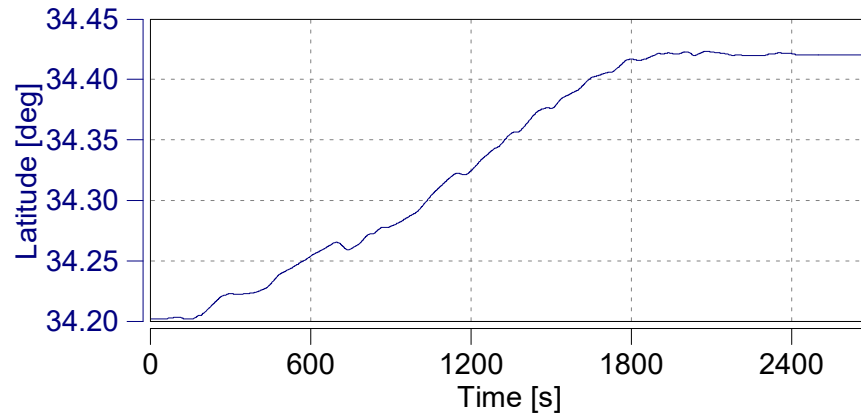
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0

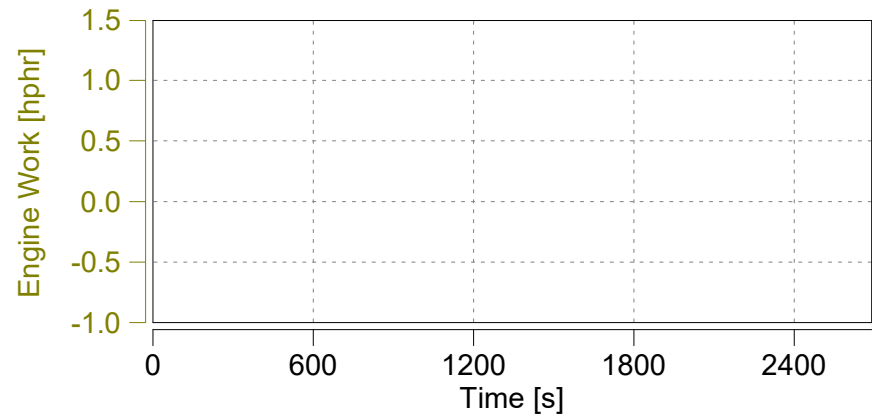
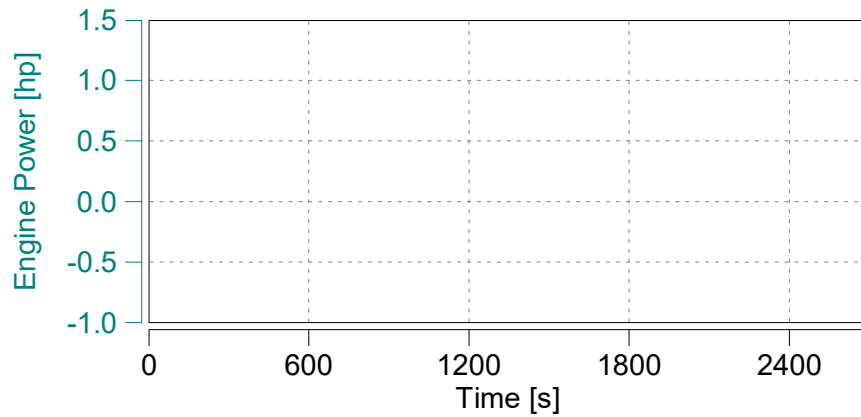
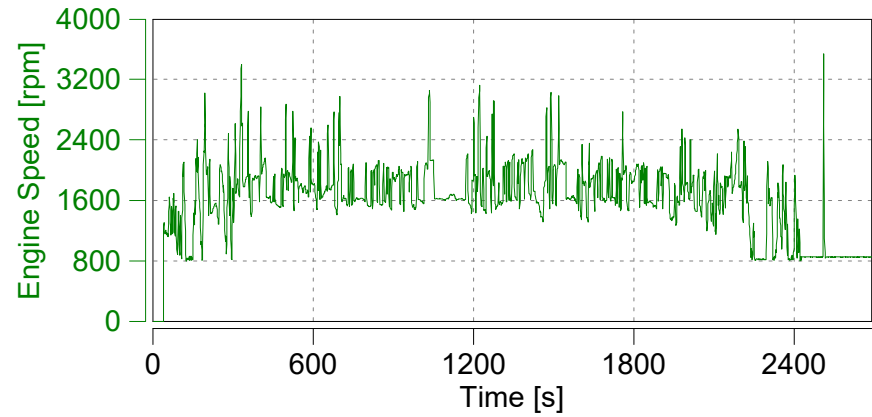
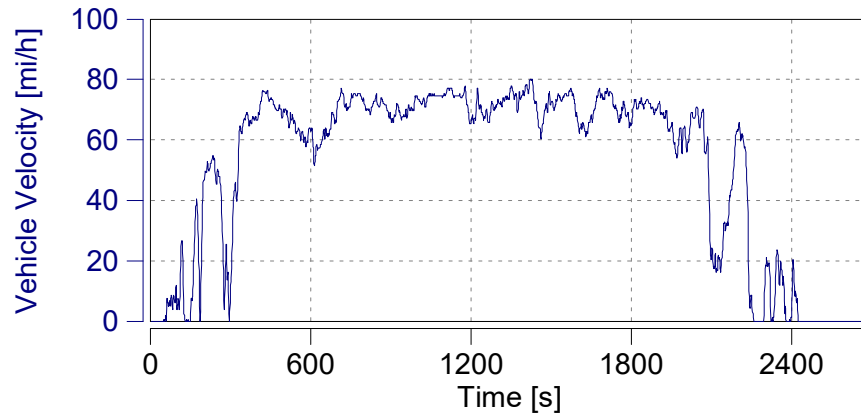


Concerto M.O.V.E., 2019



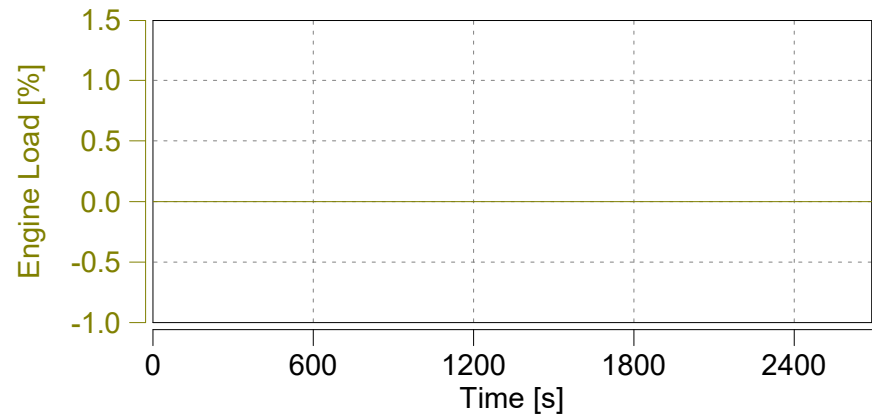
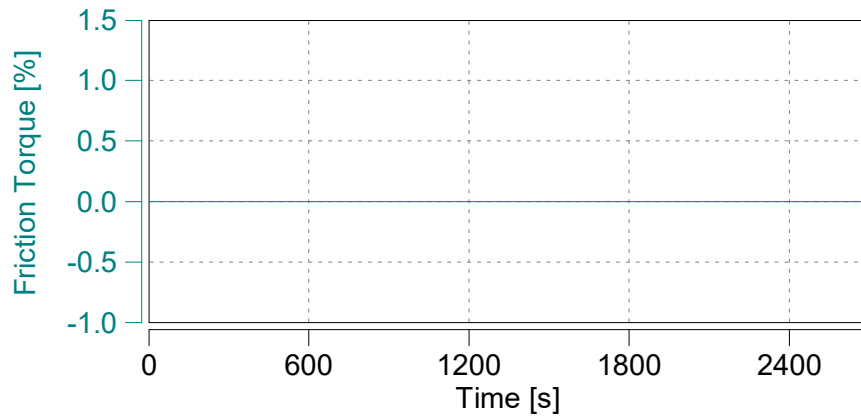
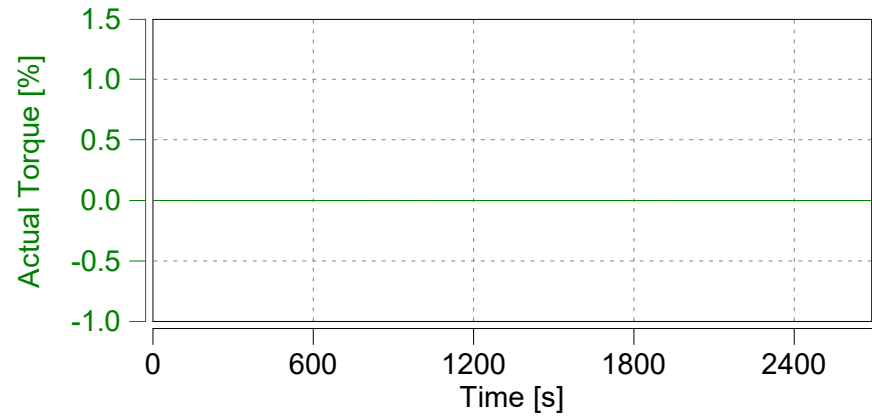
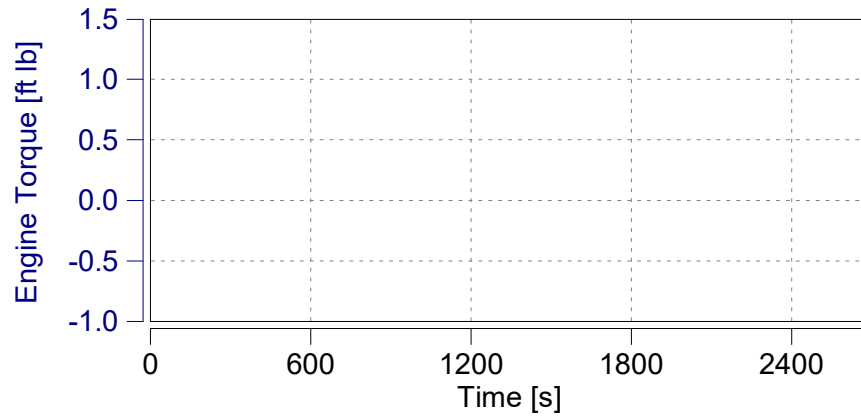
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Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



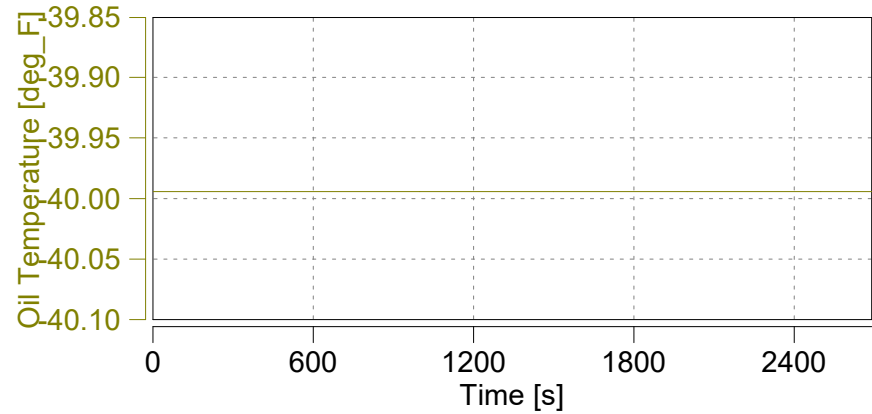
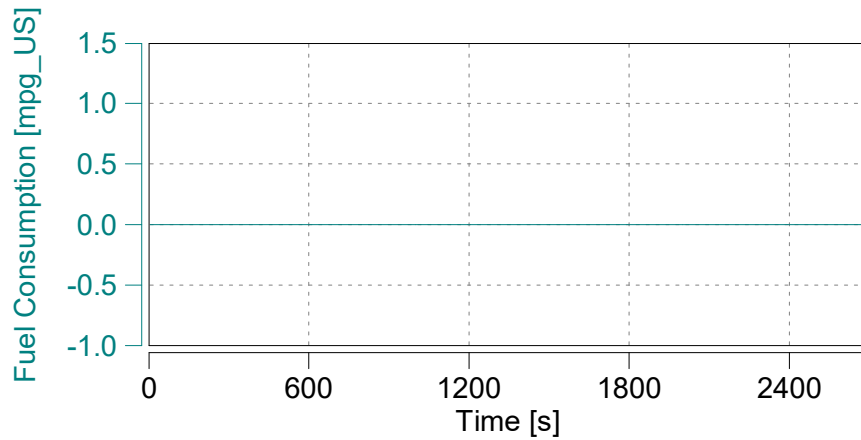
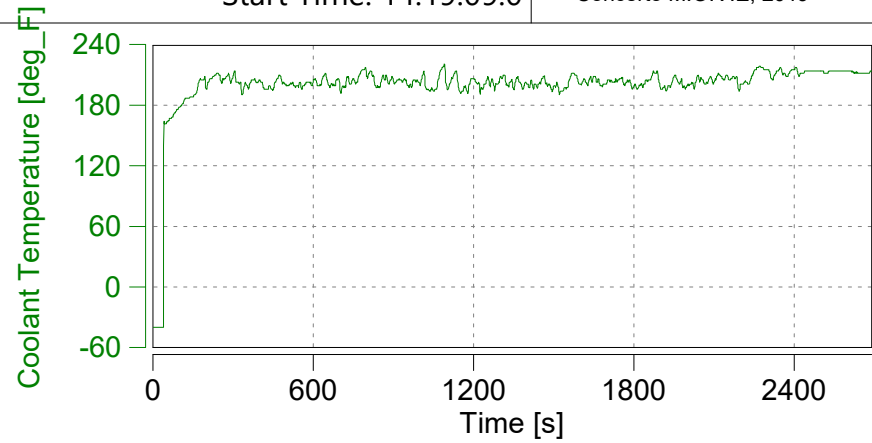
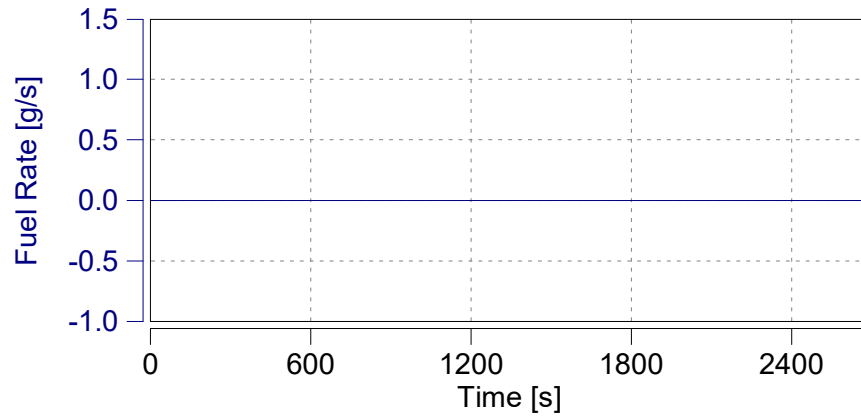
Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

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
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)

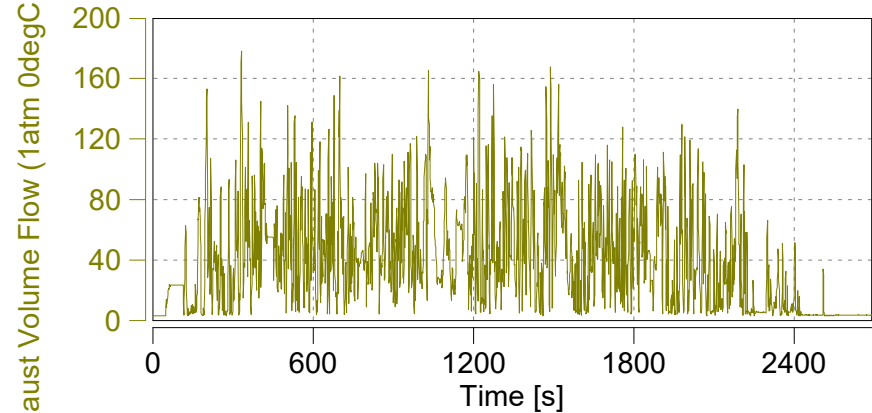
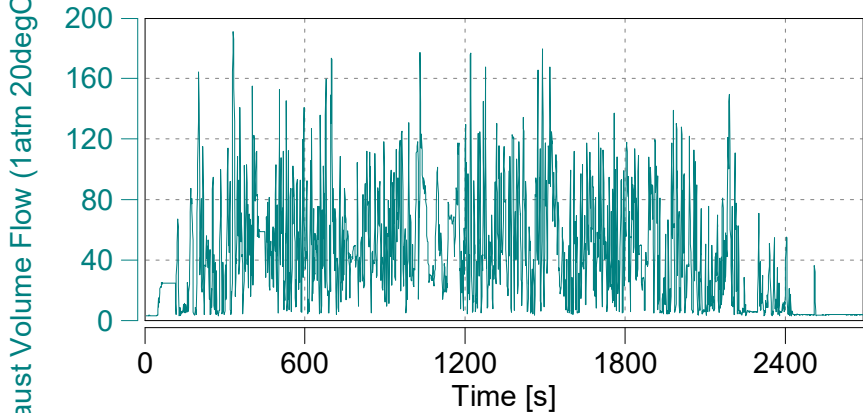
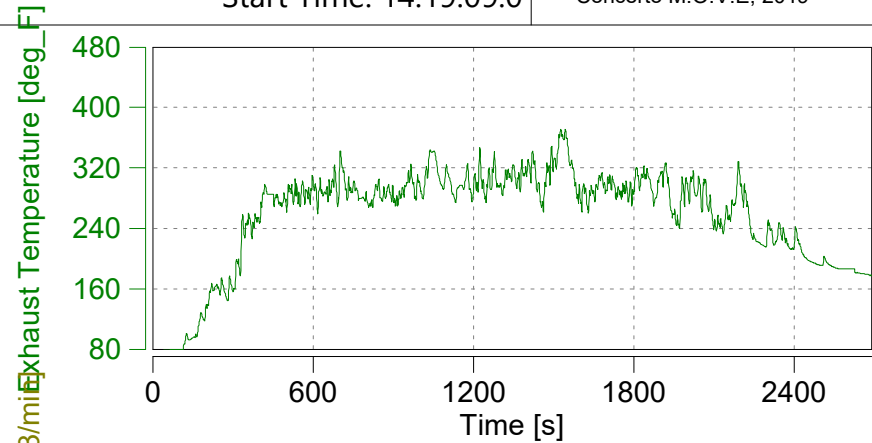
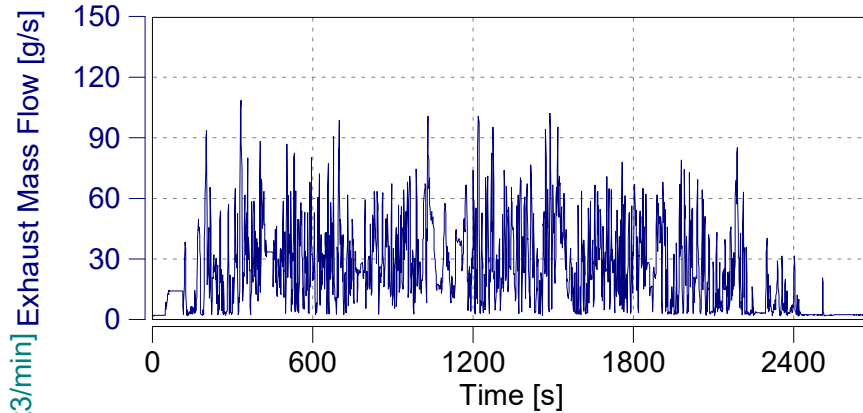
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0

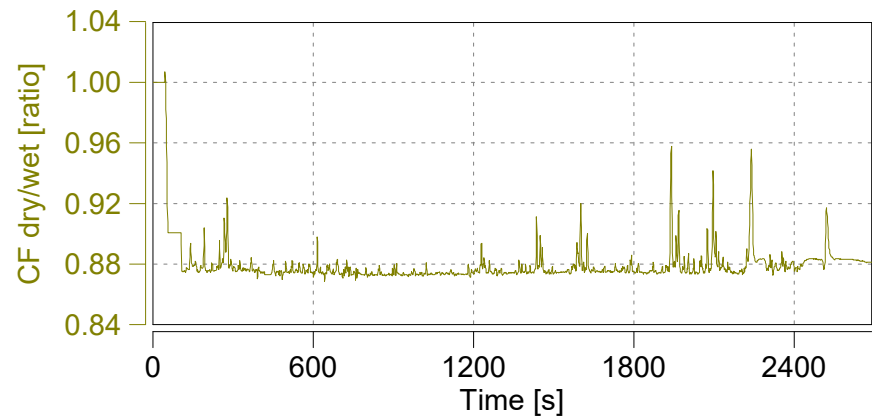
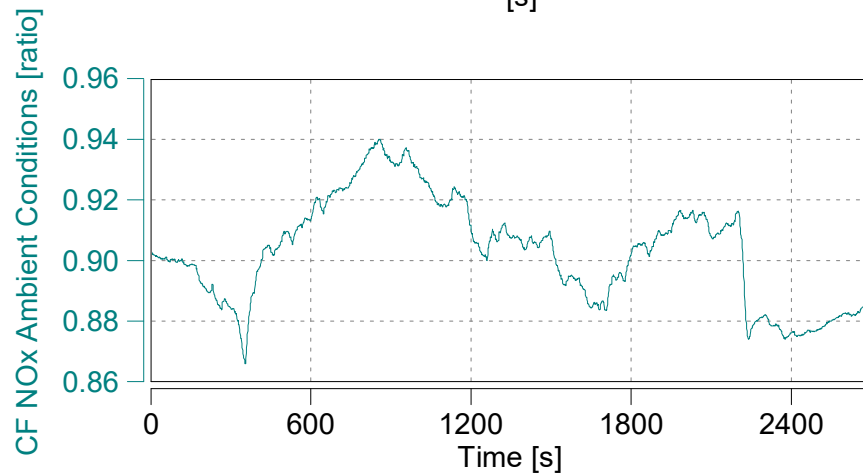
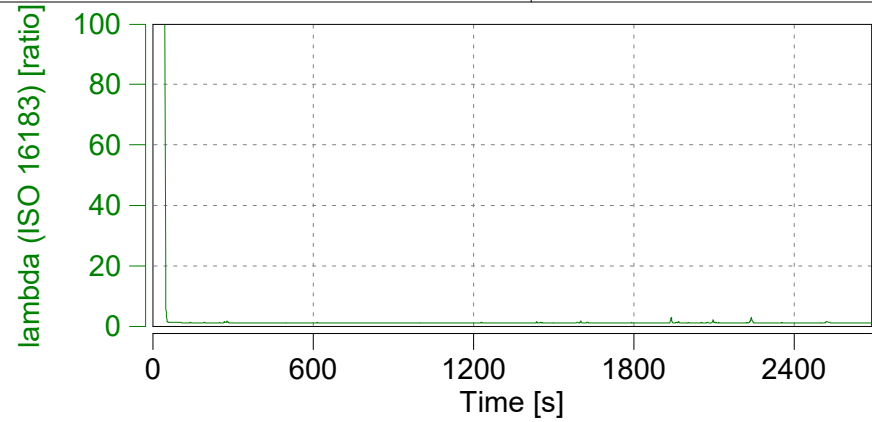
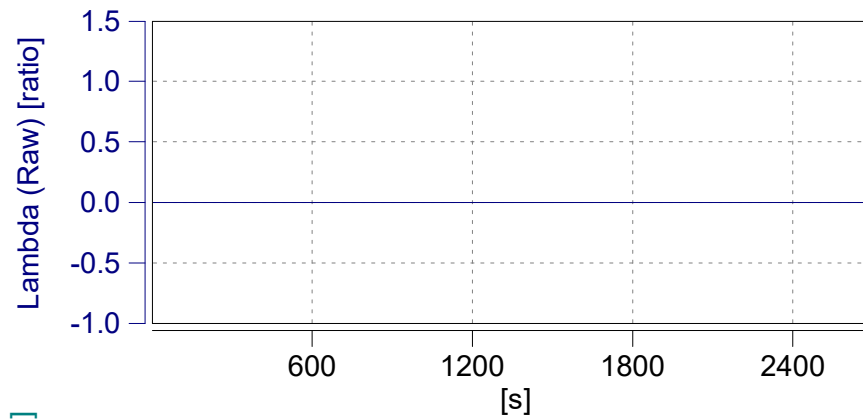


Concerto M.O.V.E., 2019



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)

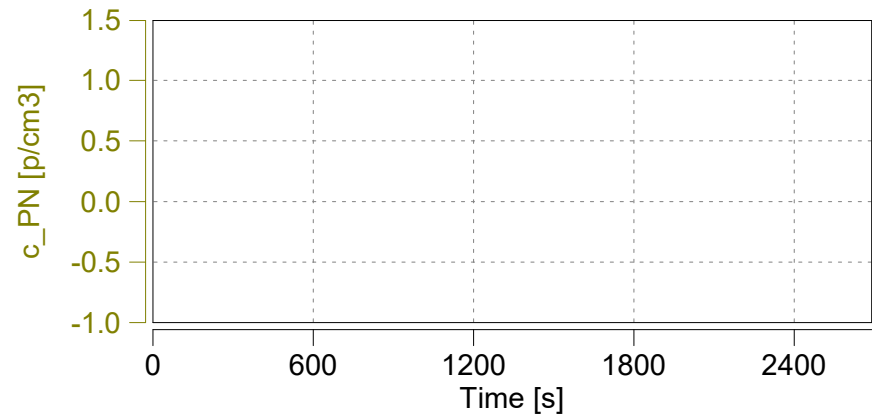
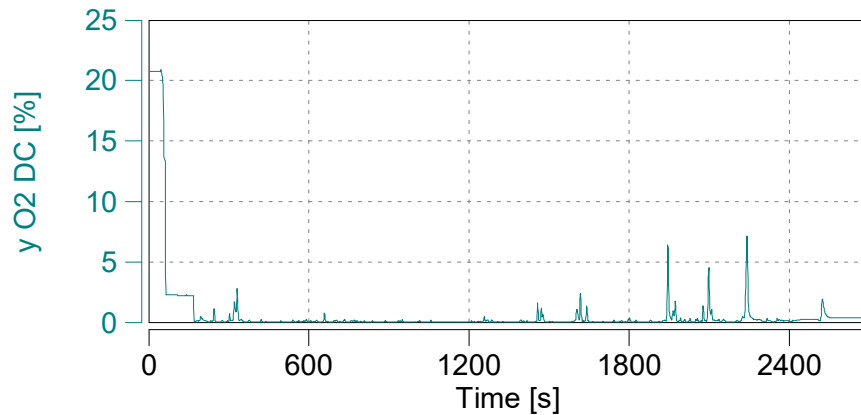
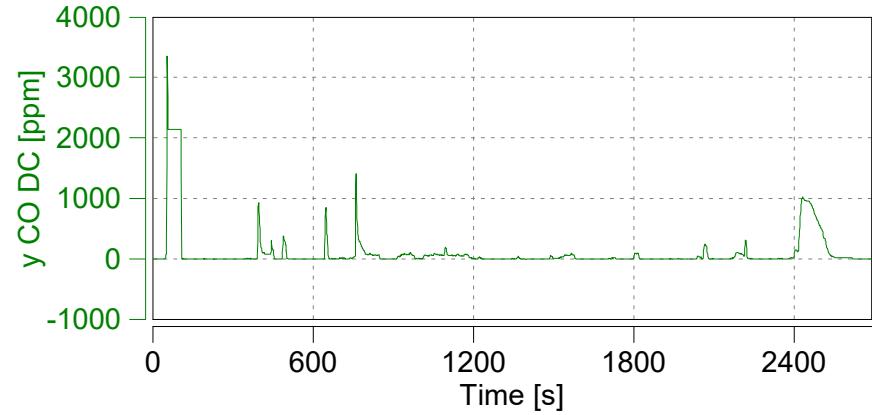
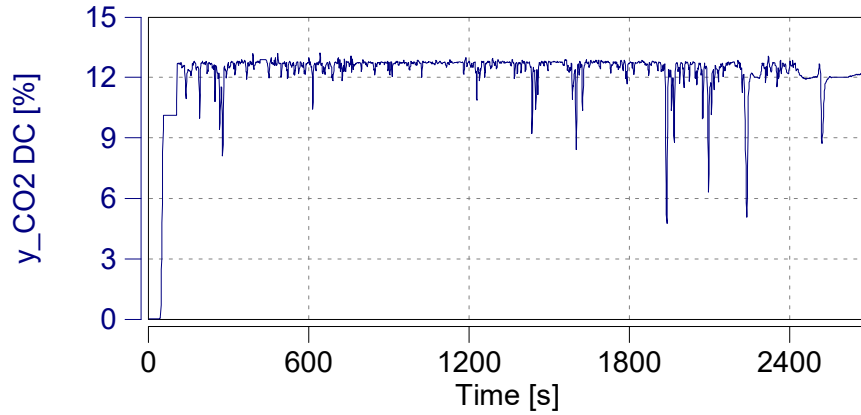
'Highway'

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)

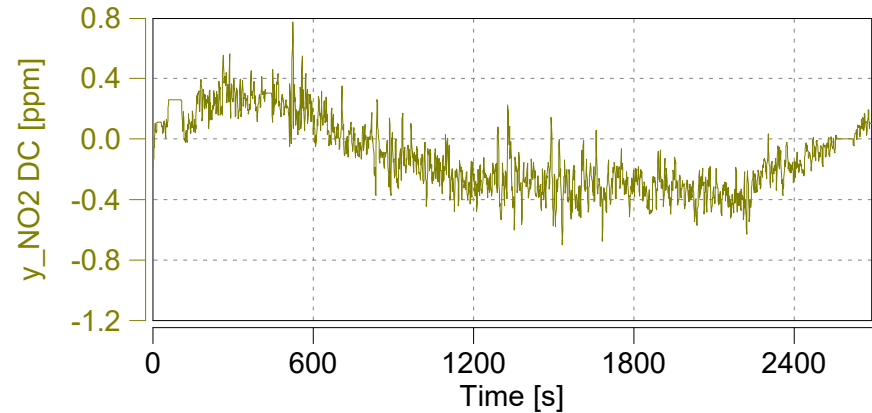
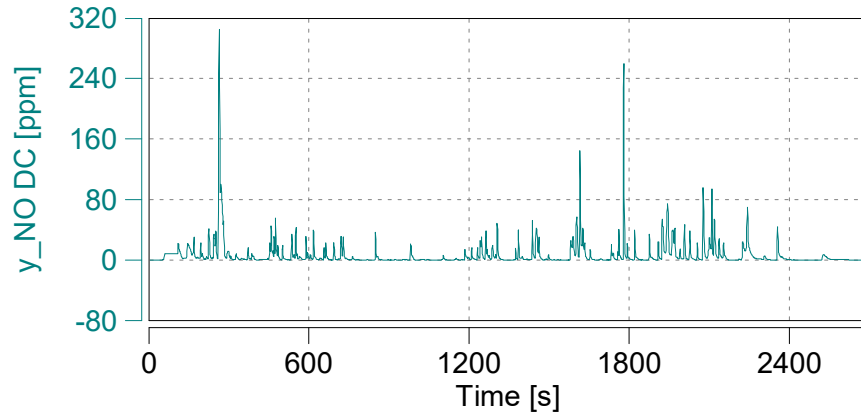
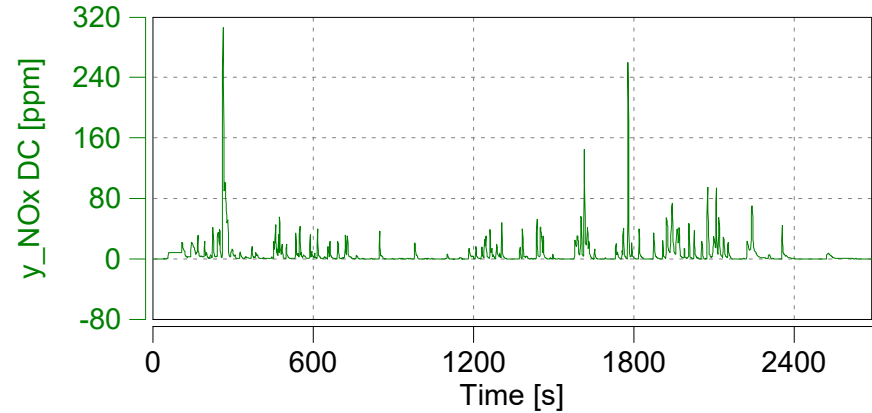
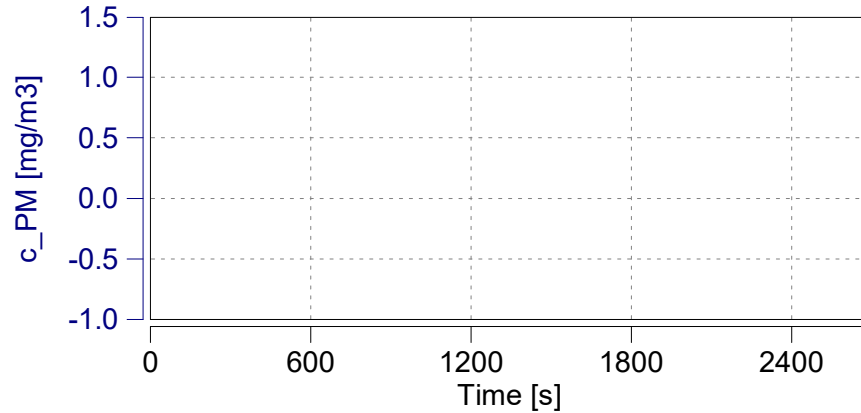
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0

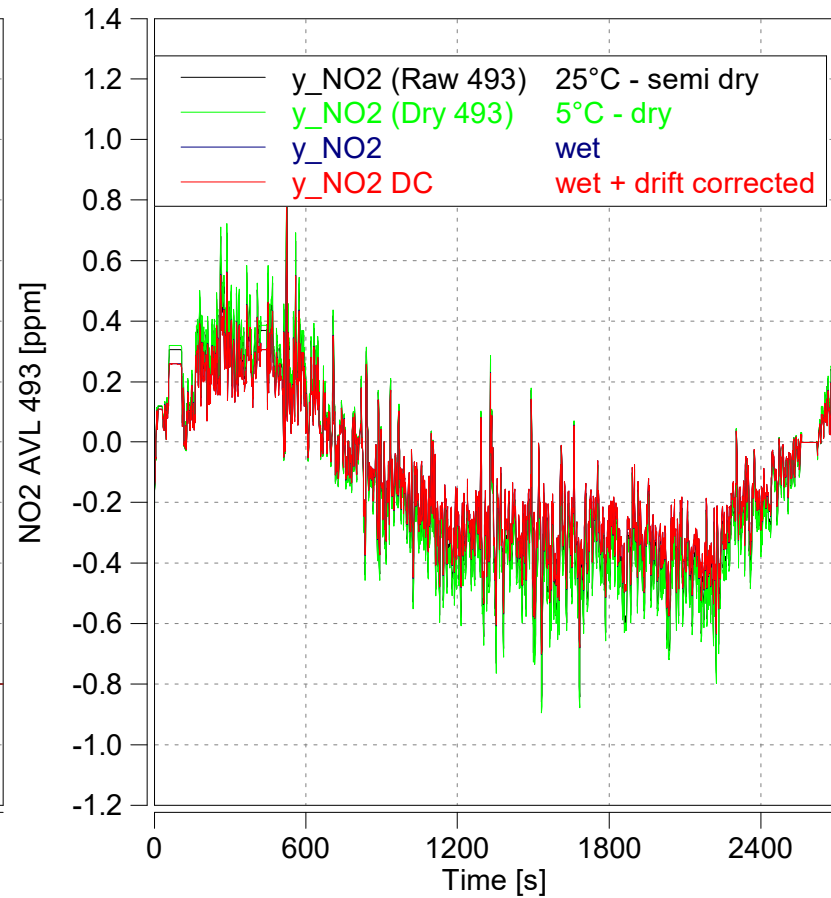
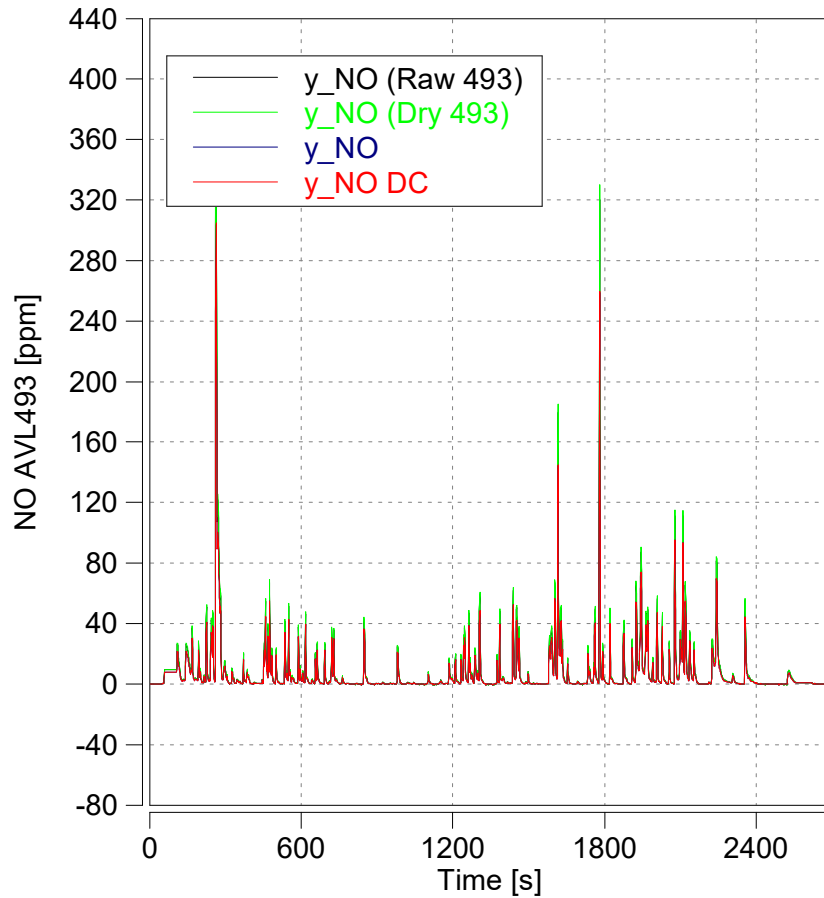


Concerto M.O.V.E., 2019



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

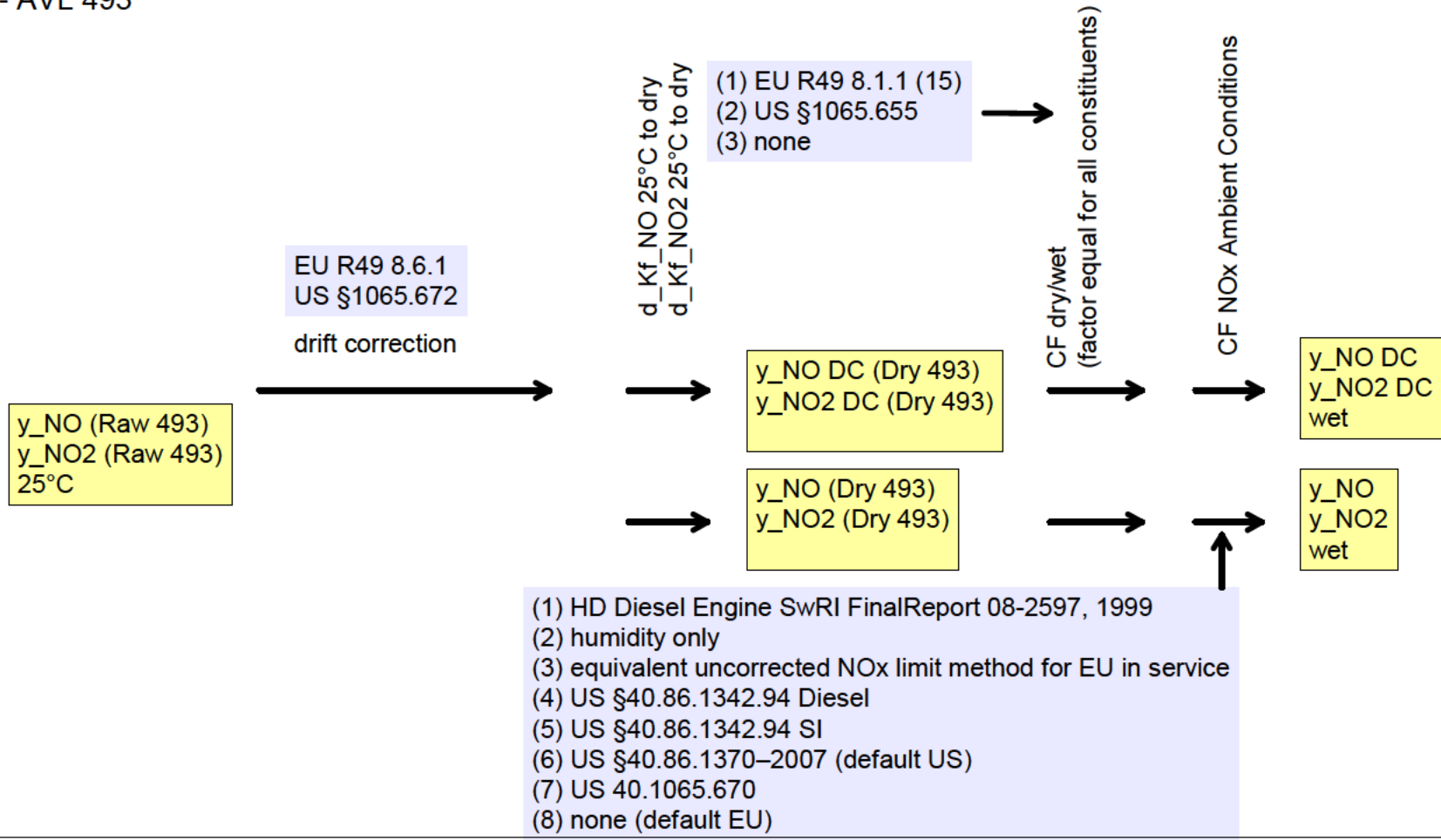


Concerto Version: 480 Build 316, Serial Number: 1120
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Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

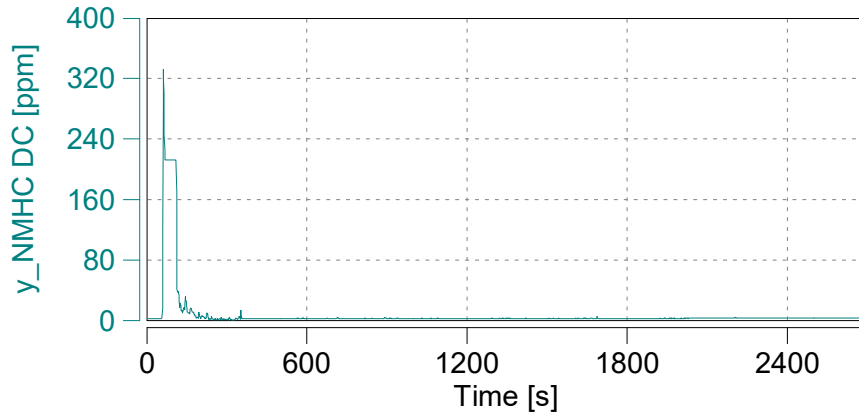
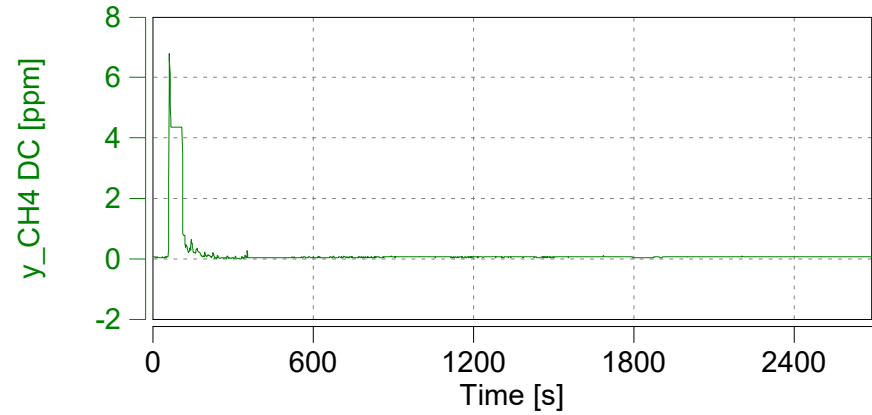
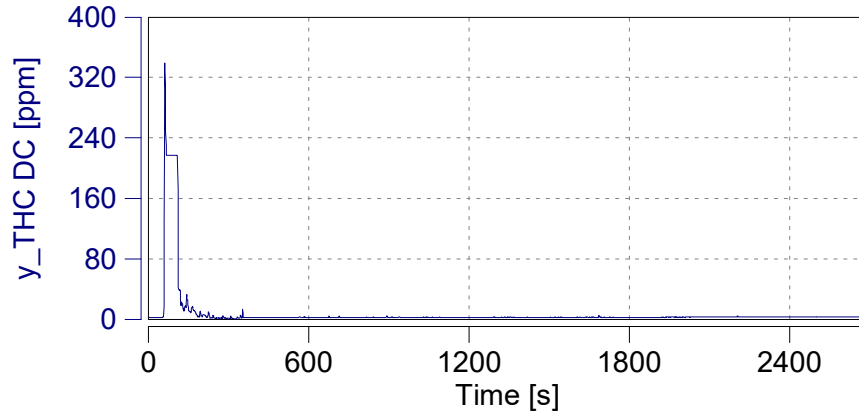
'Highway'

Start Date: 09/30/2019

Start Time: 14:19:09.0

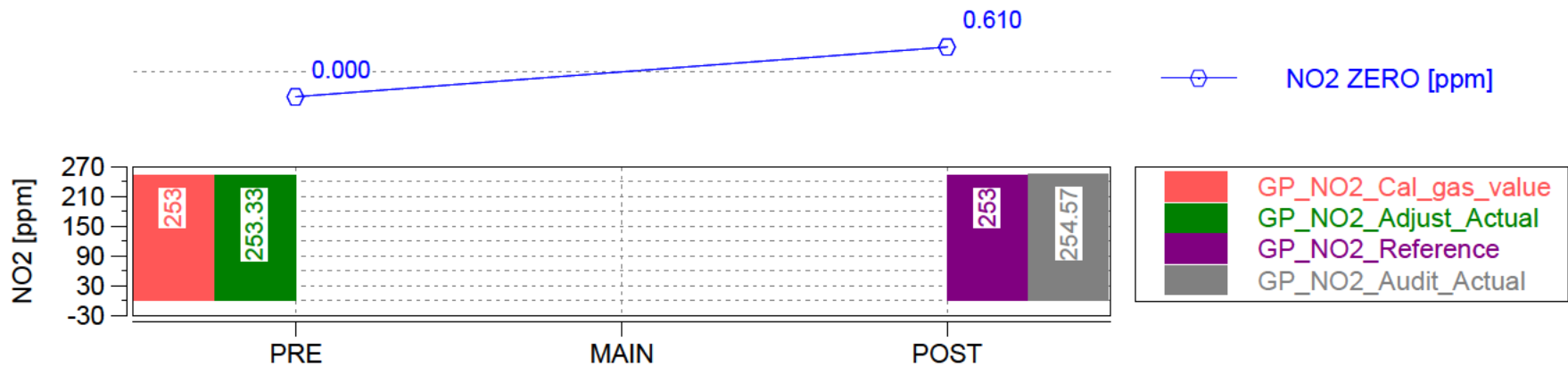
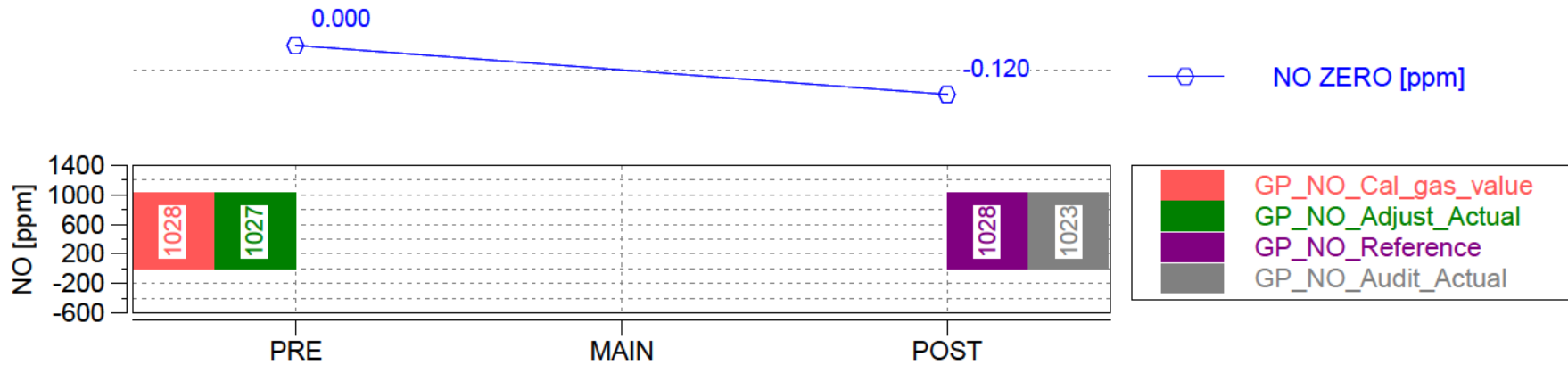


Concerto M.O.V.E., 2019



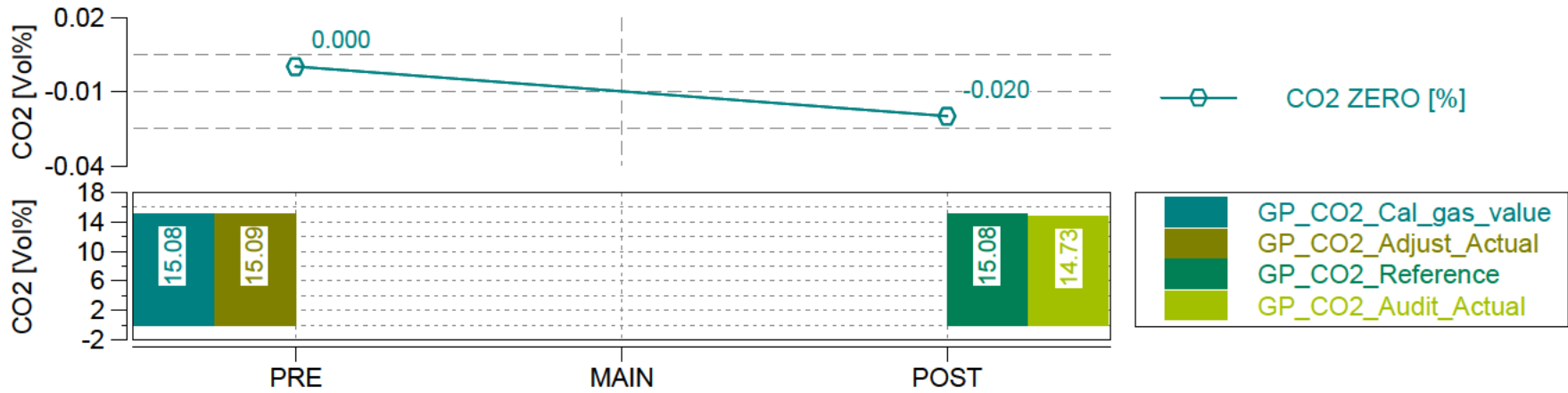
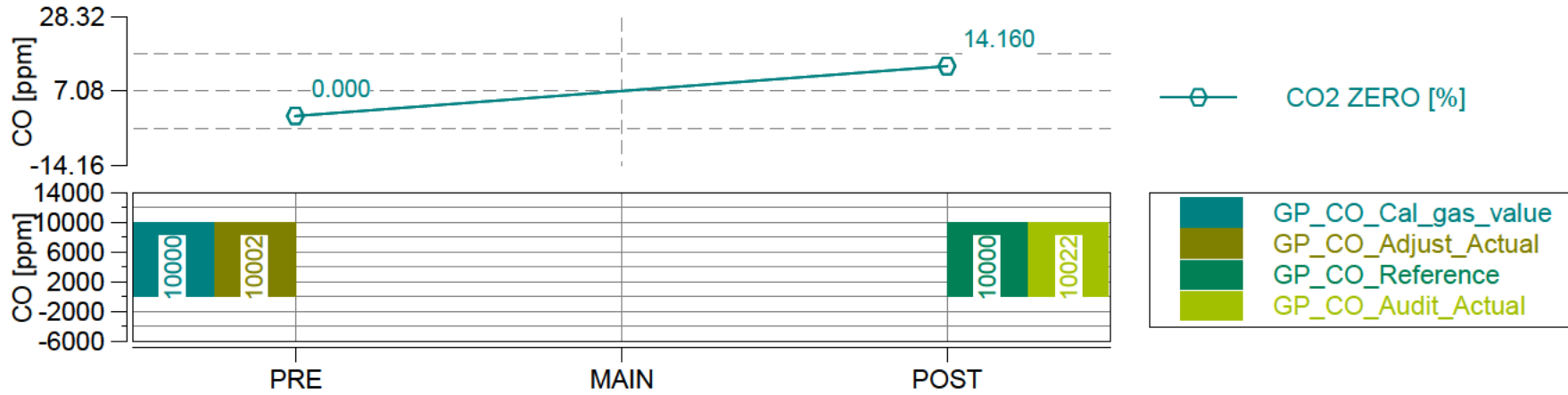
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Legislation:

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
 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: THC/CH4 Zero - Span

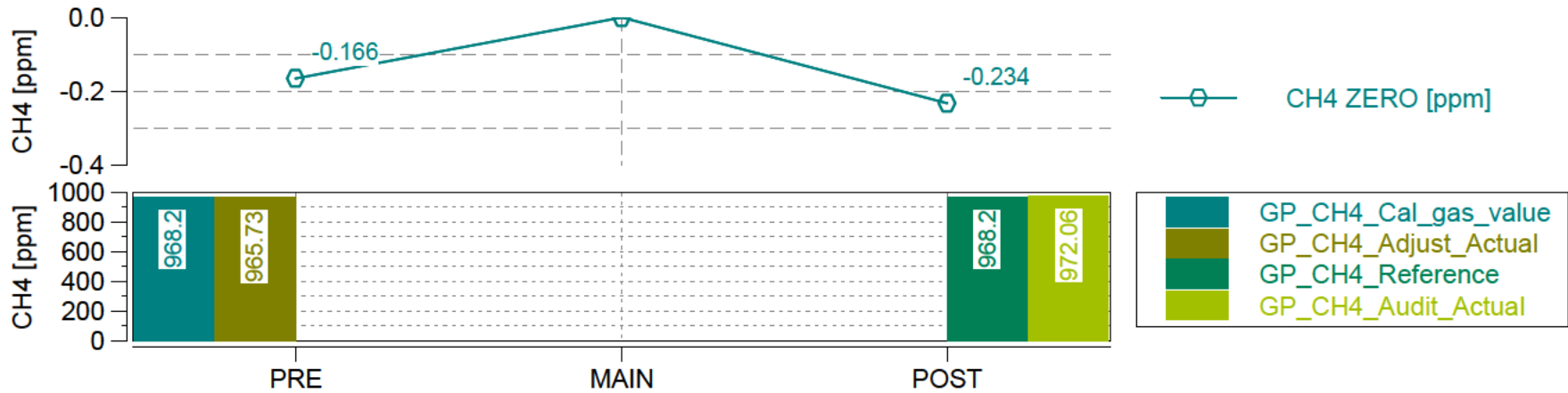
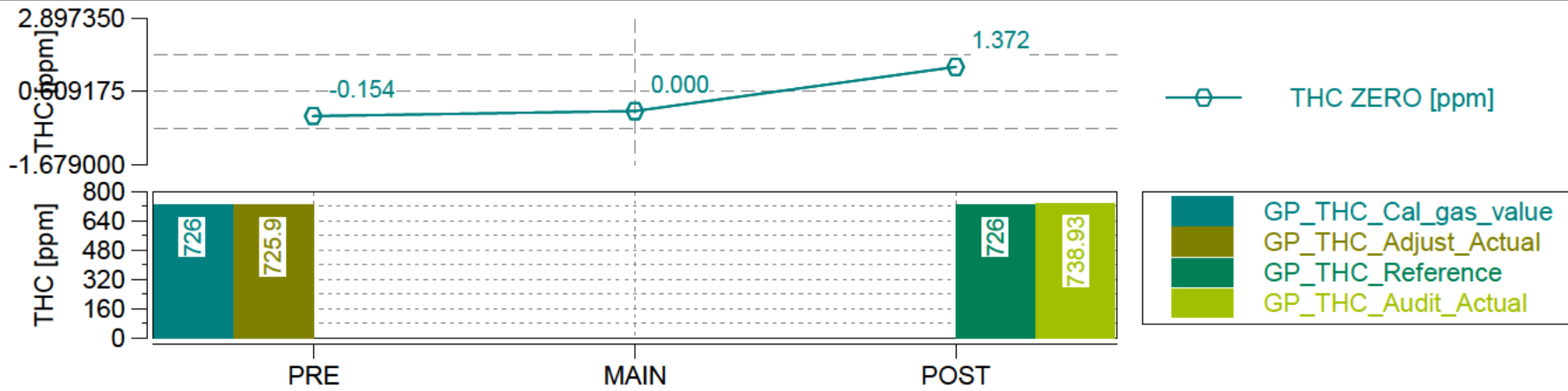
'Highway'

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: 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

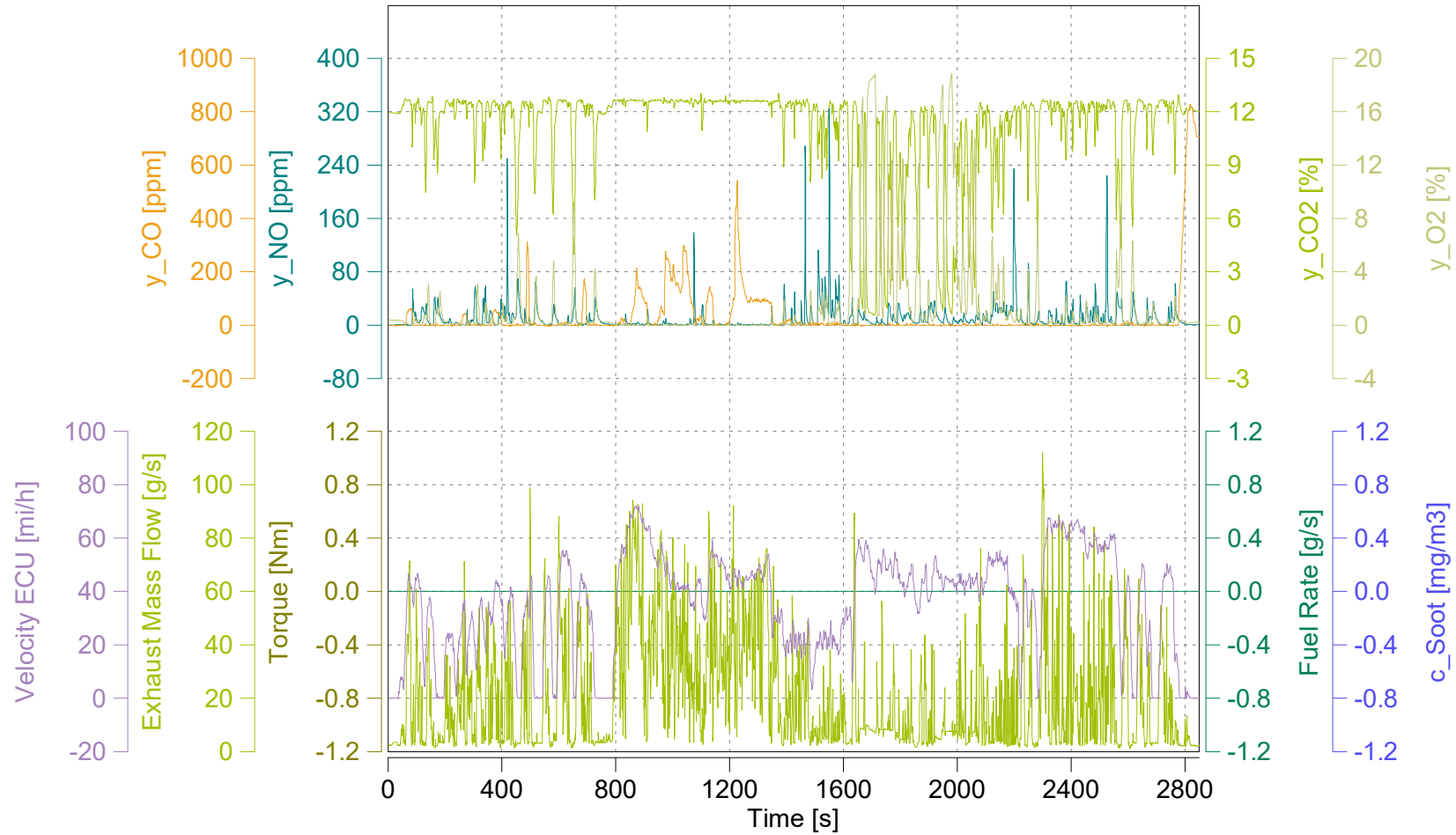


Trip Duration	2850.00	s	ave THC DC	4.52275	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	2850.00	s	ave NMHC DC	4.43229	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.16	mi	ave CH4 DC	0.09045	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.16	mi	ave CO DC	36.15948	ppm	BS NMHC DC	n/a	g/hphr
Trip Fuel Cons. (b)	0.00	kg	ave CO2 DC	11.25439	%	BS CH4 DC	n/a	g/hphr
Trip Fuel Cons. (ab)	0.00	kg	ave NOx DC	11.15487	ppm	BS NO DC (d)	n/a	g/hphr
Trip Fuel Cons. EU (ac)	3.56	kg	ave PM	n/a	mg/m3	BS NO2 DC	n/a	g/hphr
Trip Fuel Cons. US (ac)	3.55	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)	22.41	mpg_US	tot THC DC	0.18038	g	BS PM	n/a	g/hphr
Trip Fuel Economy US (ac)	22.42	mpg_US	tot NMHC DC	0.16686	g	BS PN DC	n/a	#/hpr
Trip Fuel Economy GGE (b)	n/a	mpg_US	tot CH4 DC	0.00400	g	DS CO2 DC	383.91073	g/mi
Trip Fuel Economy GGE (ab)	n/a	mpg_US	tot CO DC	2.40245	g	DS CO DC	0.08531	g/mi
Trip Fuel Economy EU GGE (ac)	22.41	mpg_US	tot CO2 DC	10811.32985	g	DS THC DC	0.00641	g/mi
Trip Fuel Economy US GGE (ac)	22.42	mpg_US	tot NO DC (d)	0.59680	g	DS NMHC DC	0.00593	g/mi
Trip Av. Eng. Speed	1774.73	rpm	tot NO2 DC	0.08822	g	DS CH4 DC	0.00014	g/mi
Trip Av. Torque	n/a	lbft	tot NOx DC	0.68502	g	DS NO DC (d)	0.02119	g/mi
Trip Av. Power	n/a	hp	tot Soot	n/a	g	DS NO2 DC	0.00313	g/mi
Trip Work	n/a	hphr	tot Soot meas	n/a	g	DS NOx DC	0.02432	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 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	79.08	deg_F	Soot --> PM simple scaling factor	1.00000	-	FS CO2 DC	n/a	g/kg
Trip Av. Humidity	24.50	%	Trip Av. Veh. Speed	35.57185	mi/hr	FS CO DC	n/a	g/kg
Trip Av. GPS Altitude	209.72	m	Trip Velocity Zero	10.28070	%	FS THC DC	n/a	g/kg
Fuel Type	Petrol (E10)		Trip Velocity Urban	2.19007	%	FS NMHC DC	n/a	g/kg
			Trip Velocity Rural	28.19711	%	FS CH4 DC	n/a	g/kg
			Trip Velocity Motorway	69.61283	%	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

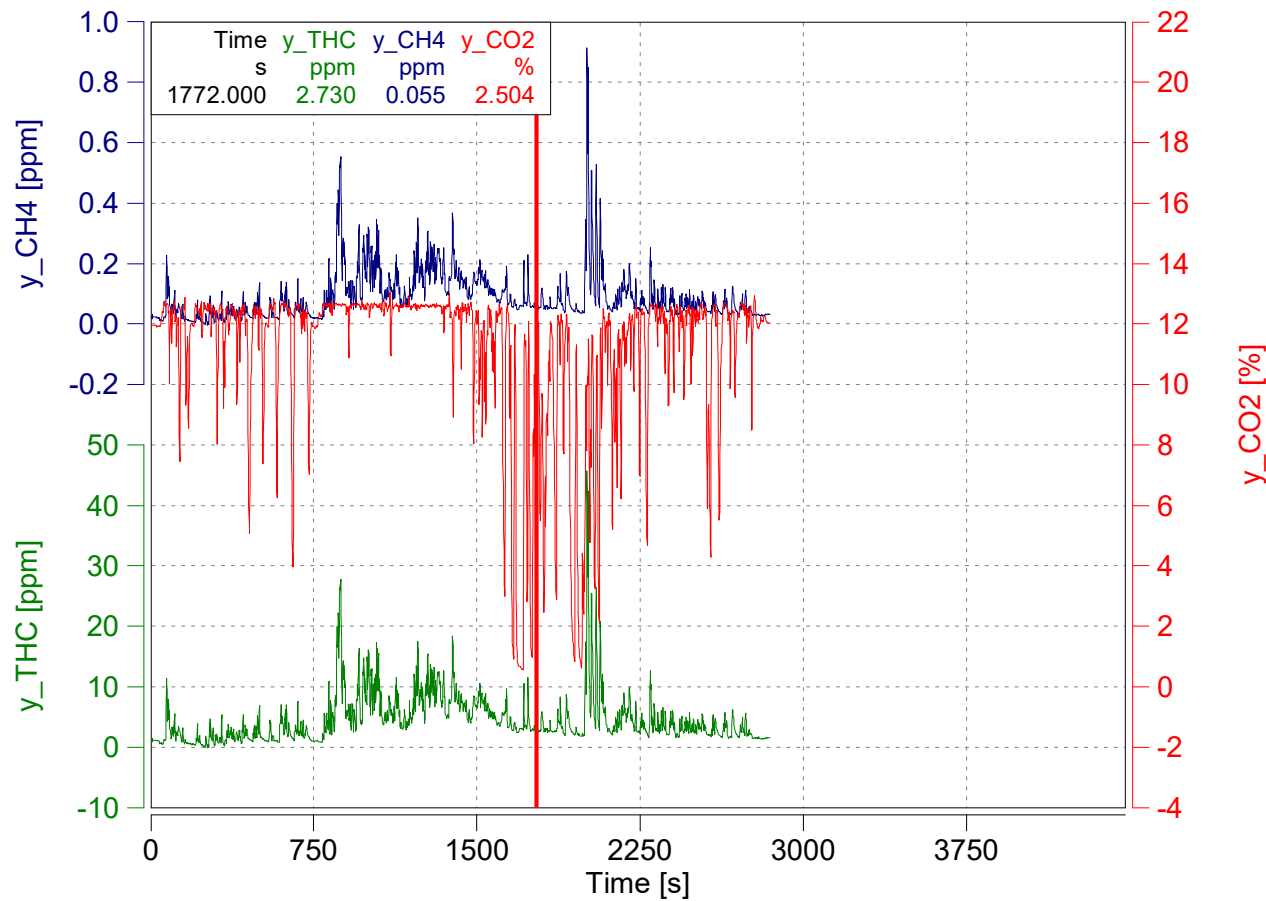
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 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
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 Engine: /
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Absolute Time Shifts

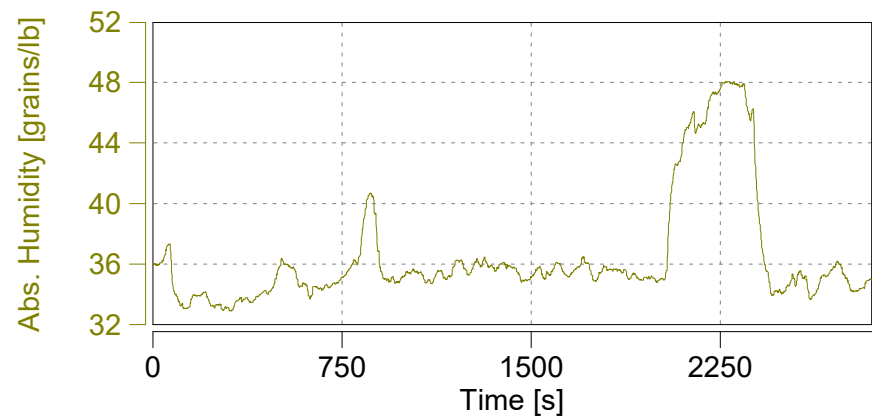
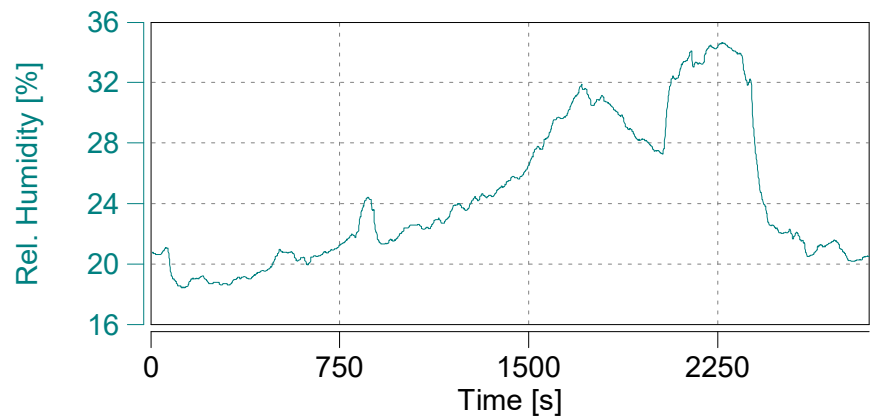
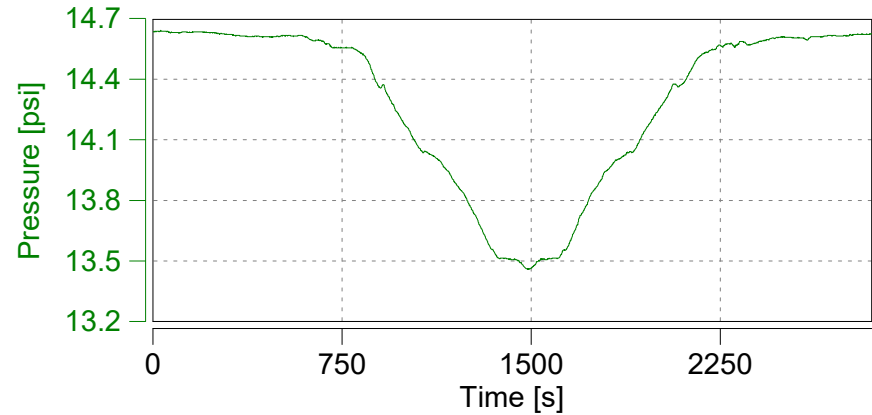
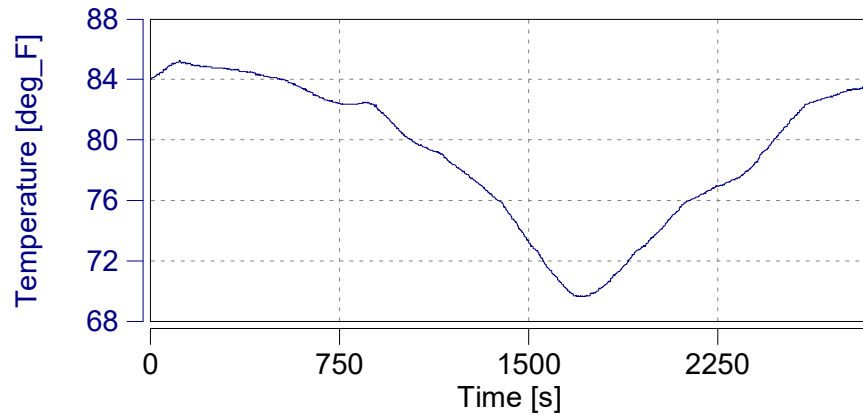
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

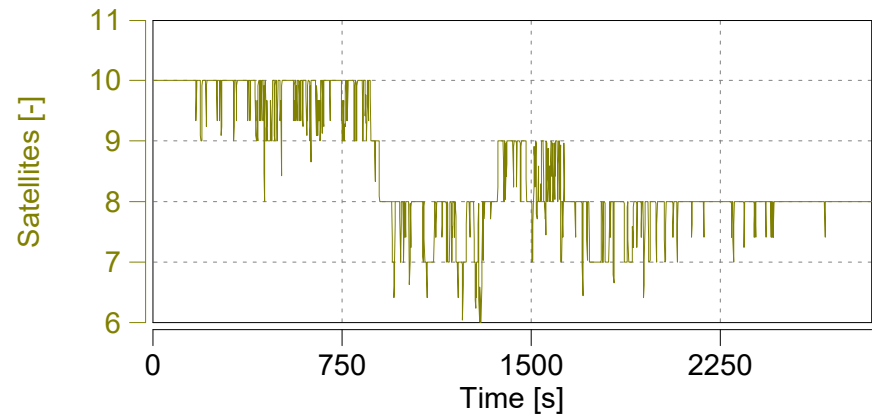
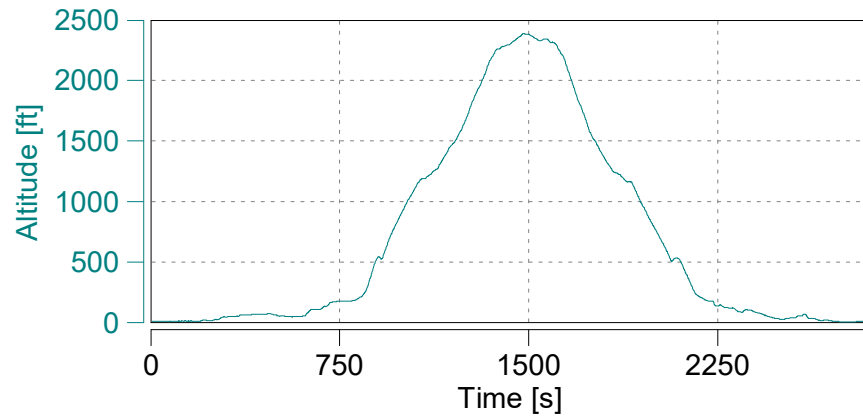
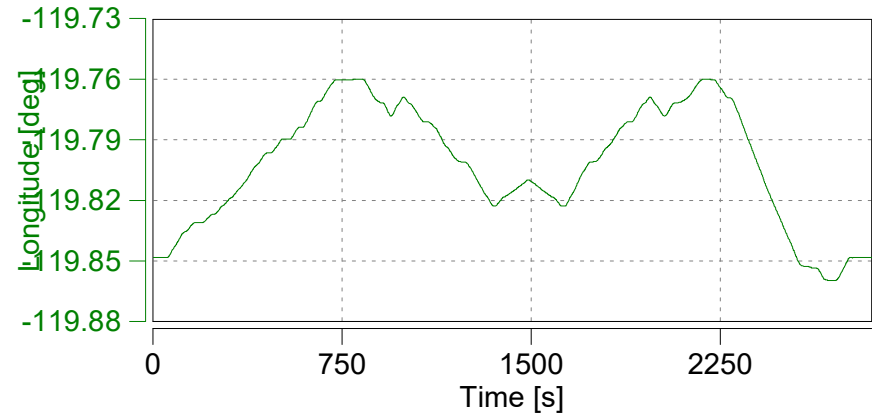
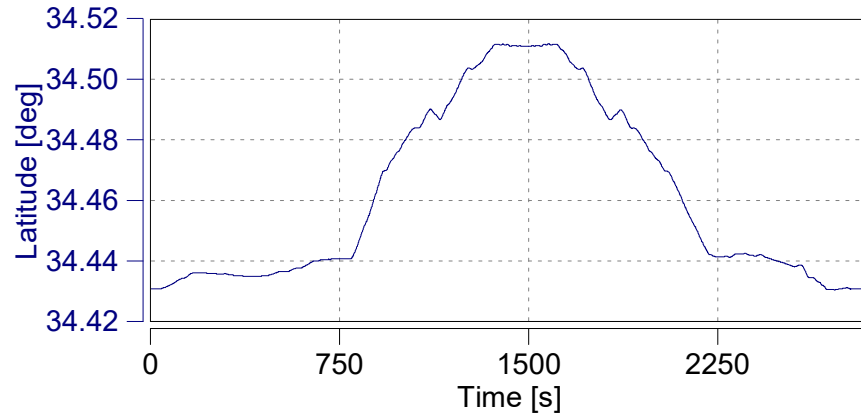
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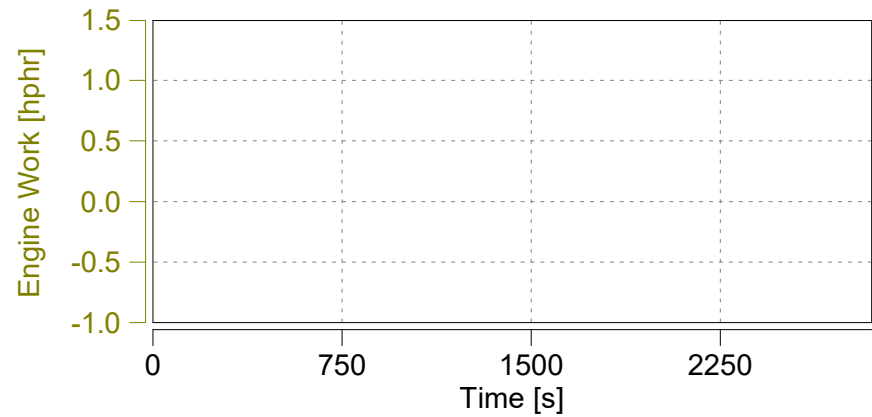
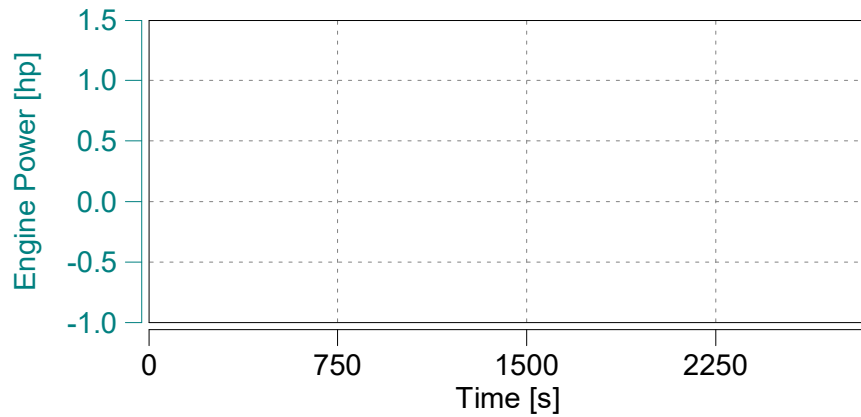
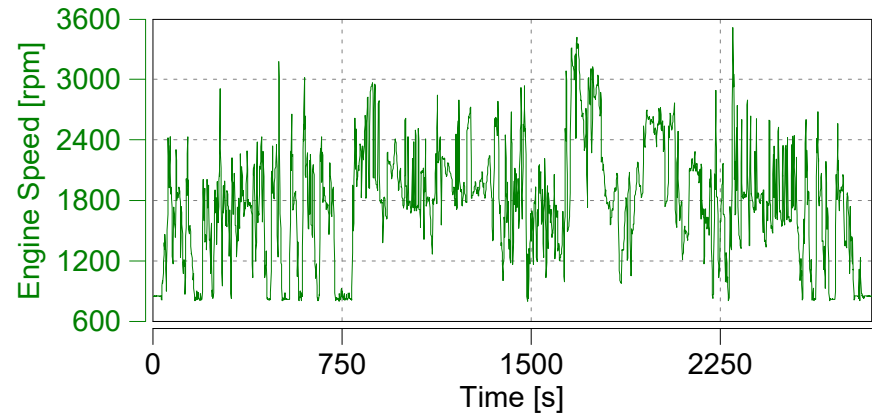
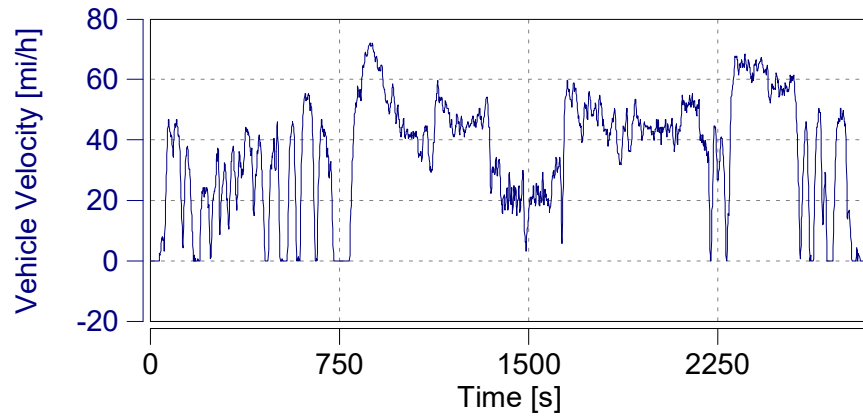
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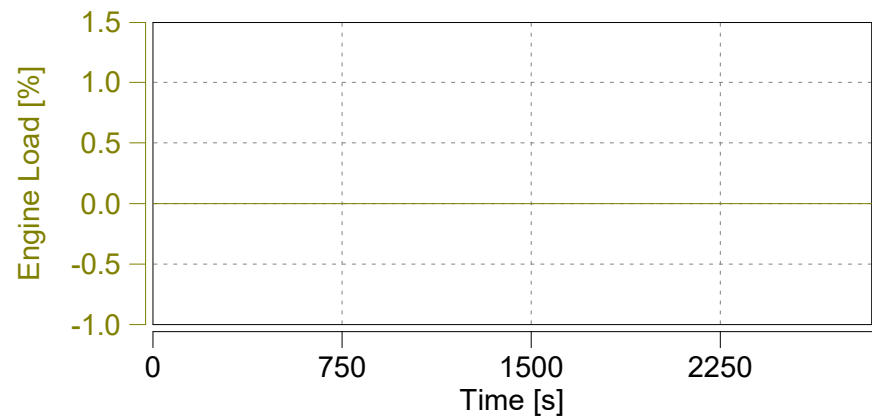
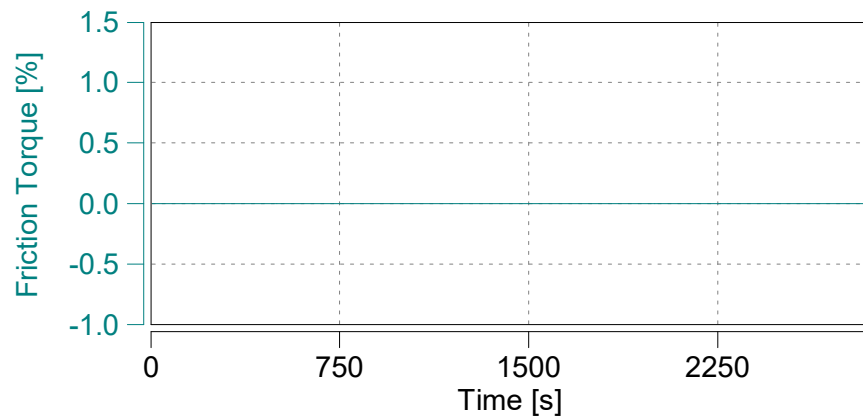
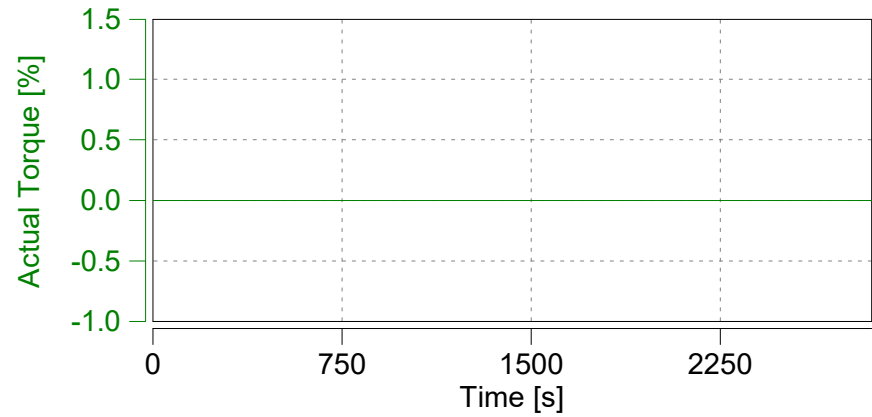
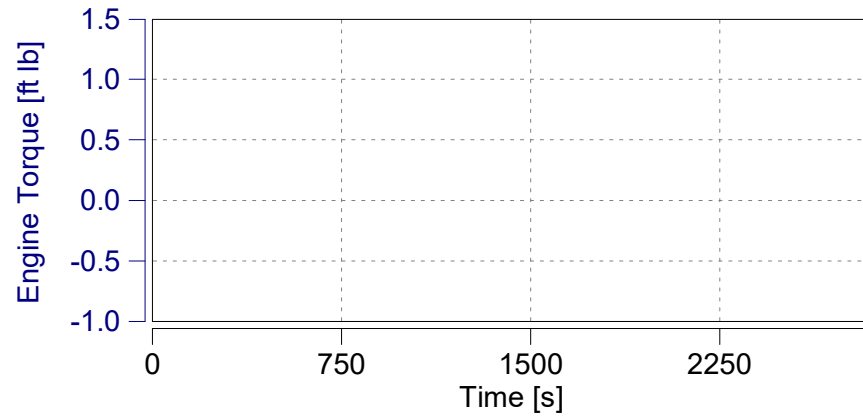
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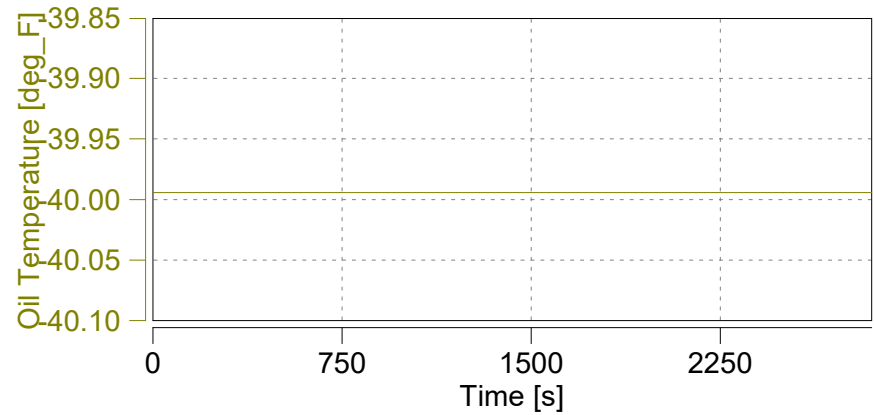
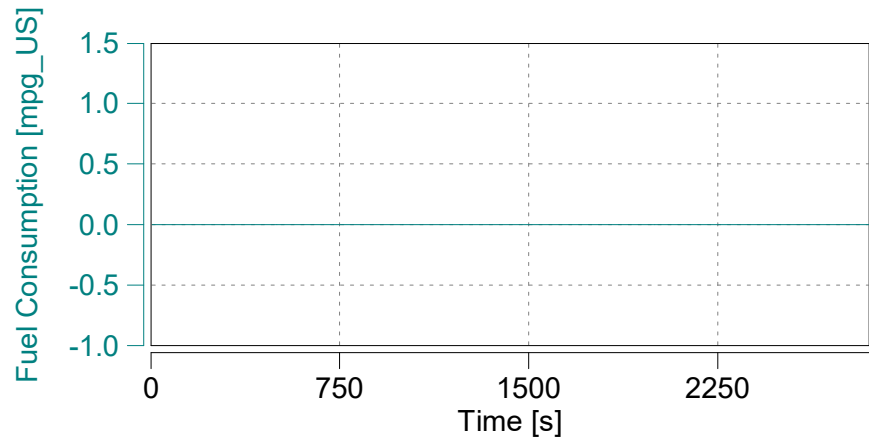
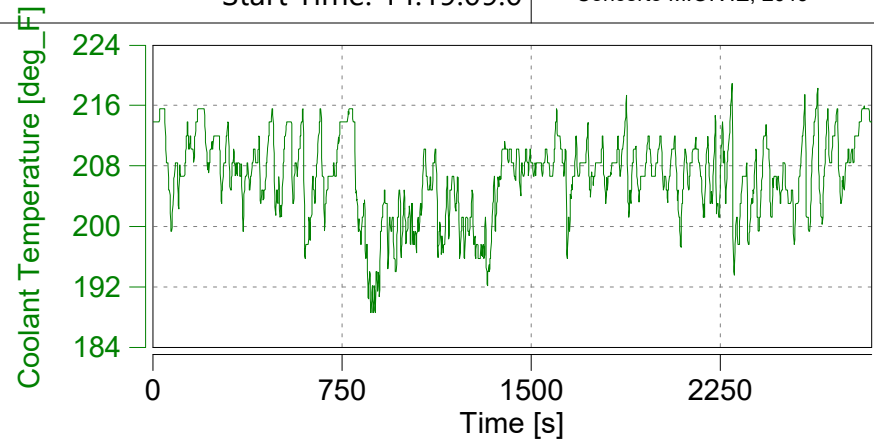
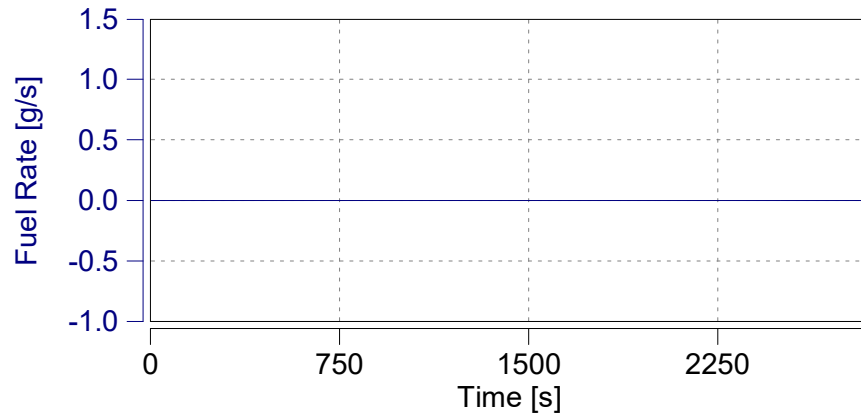
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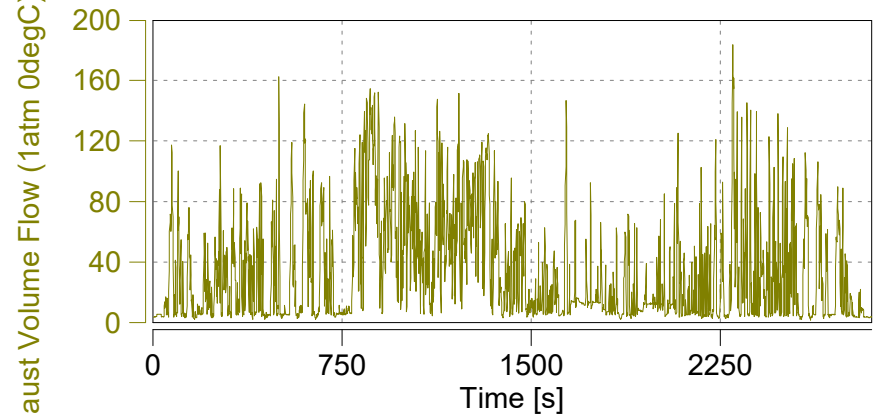
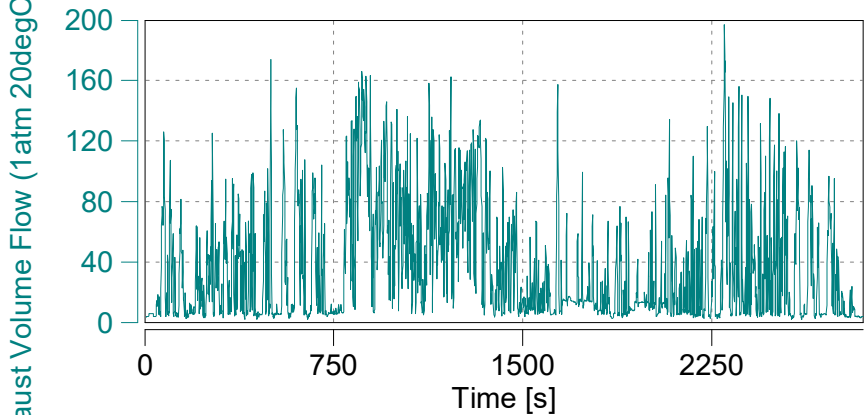
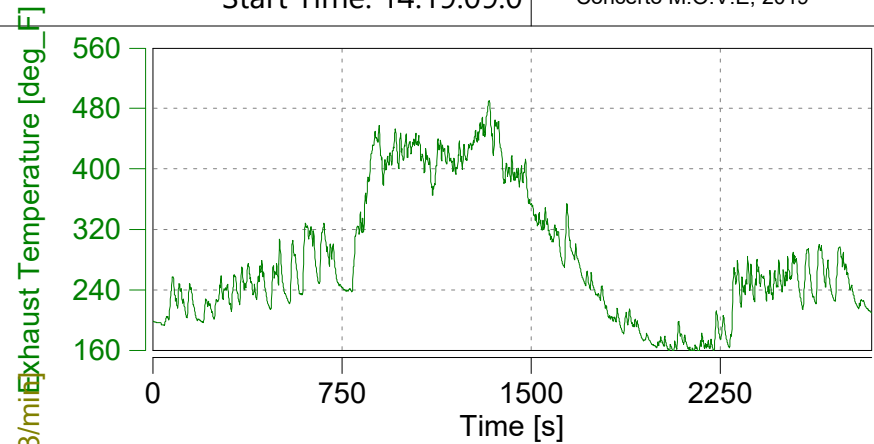
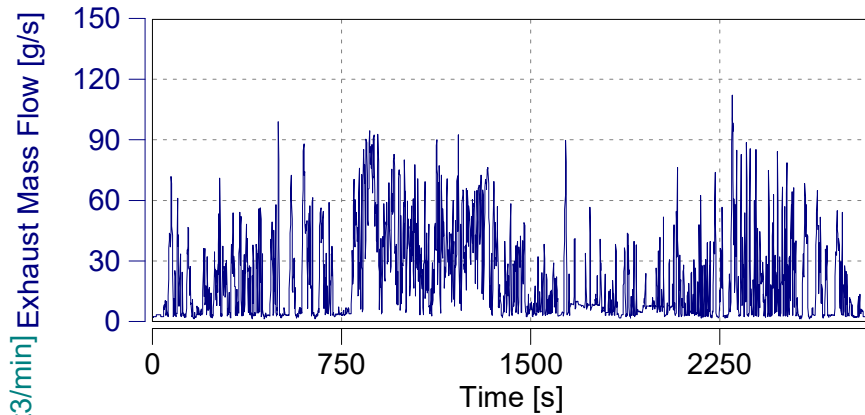
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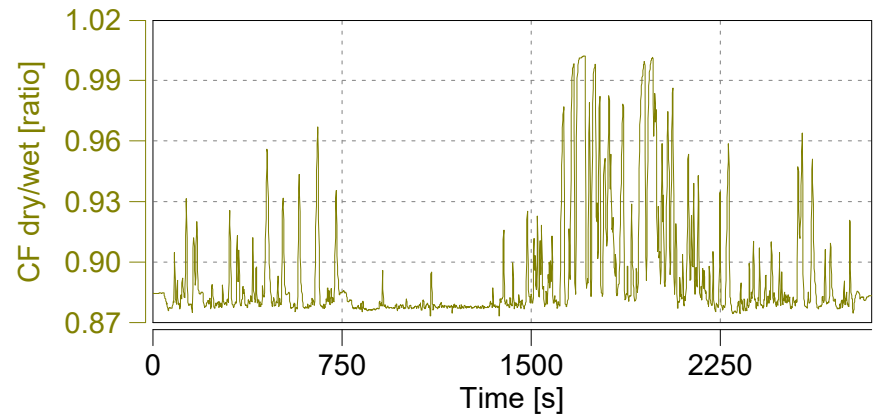
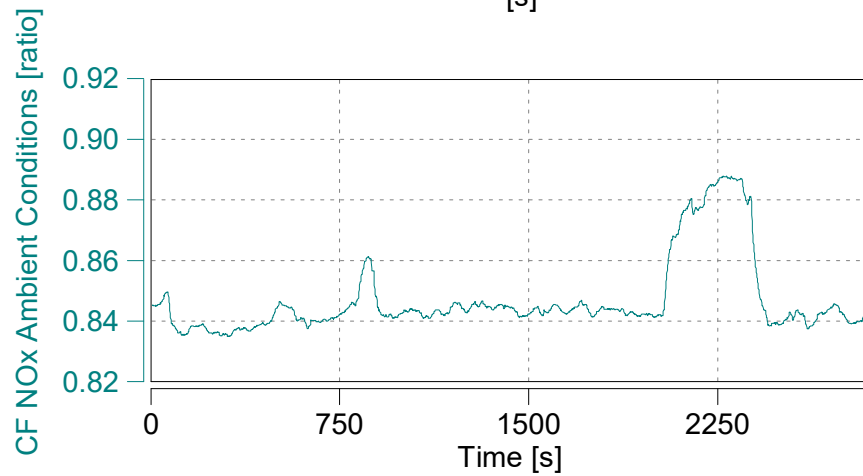
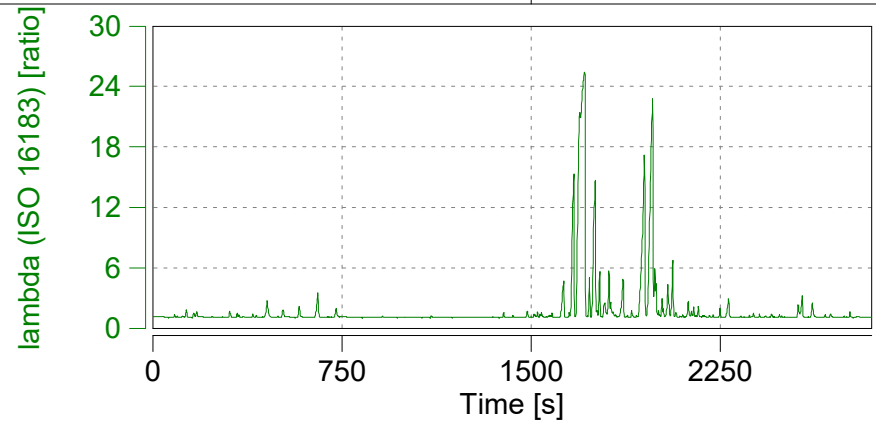
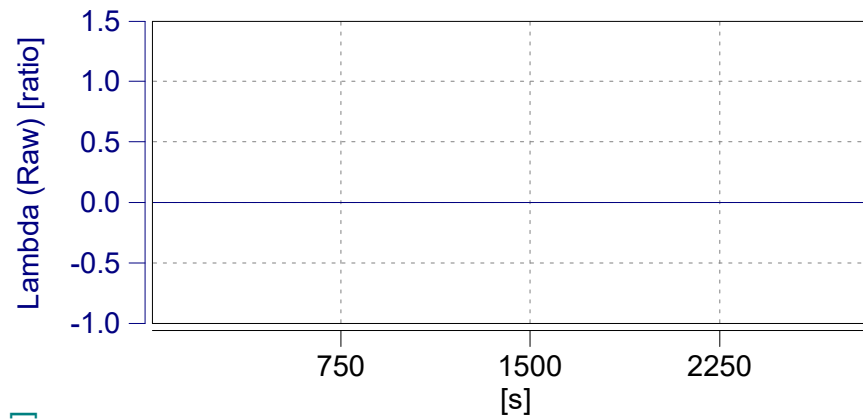
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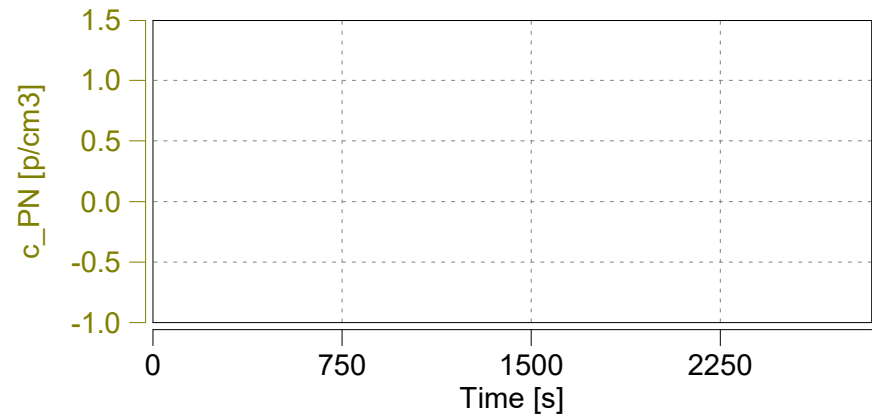
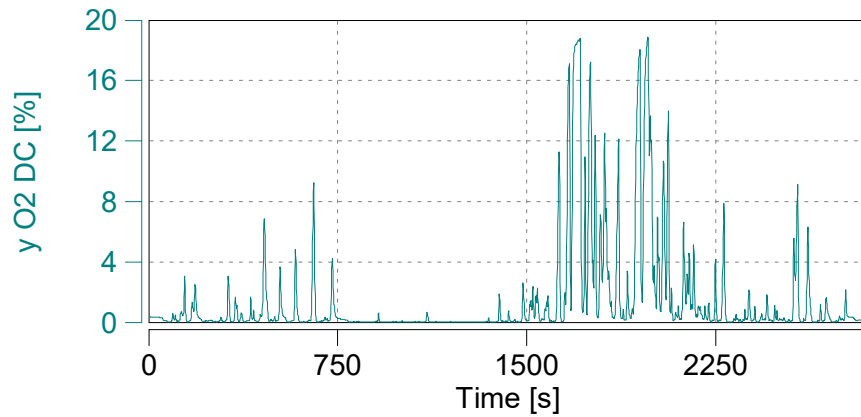
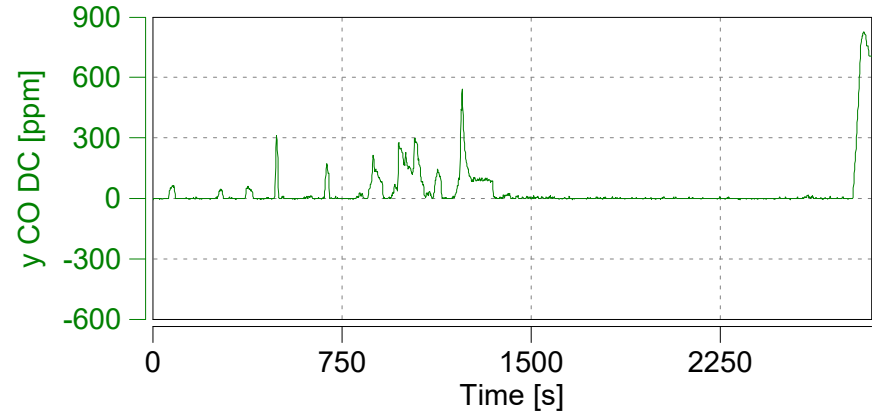
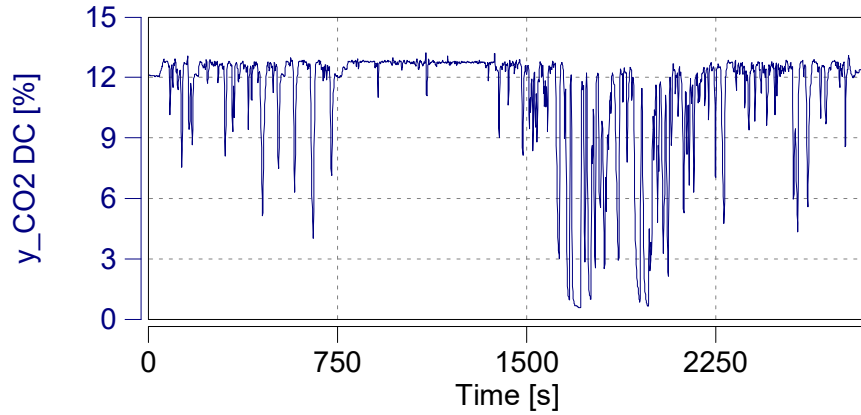
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Case: Mountain

Page: Corrected Emissions (2)

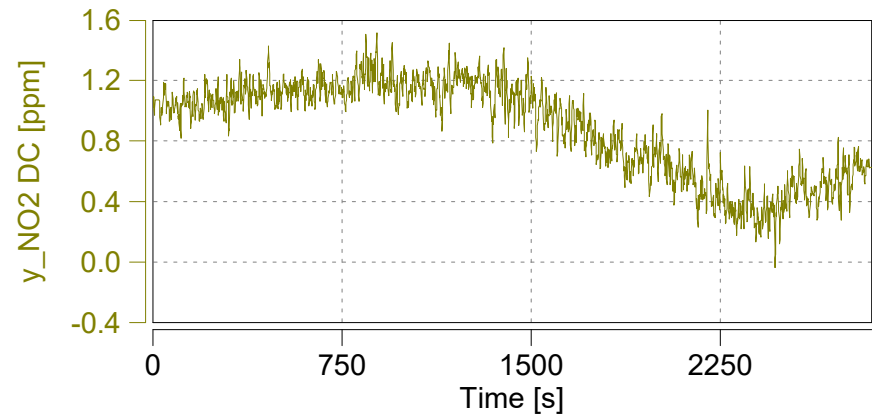
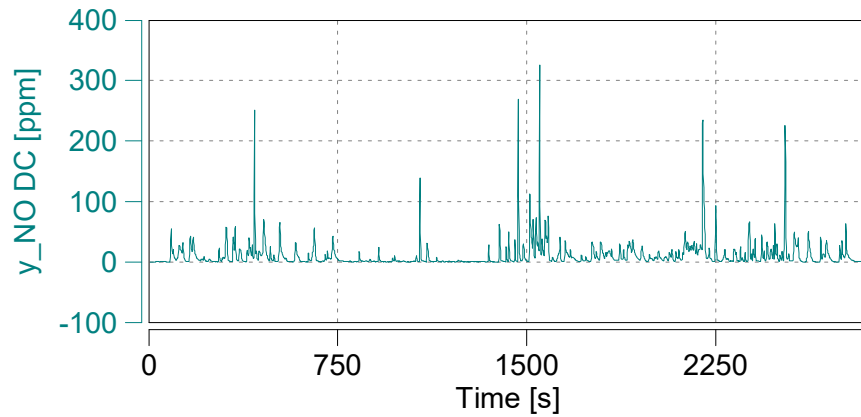
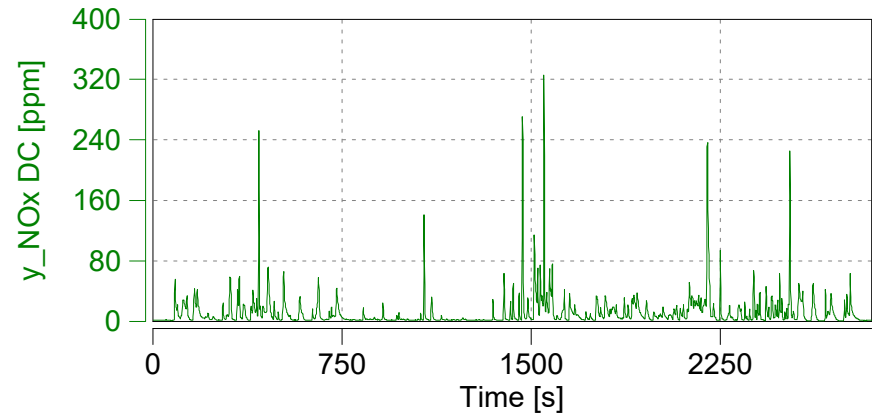
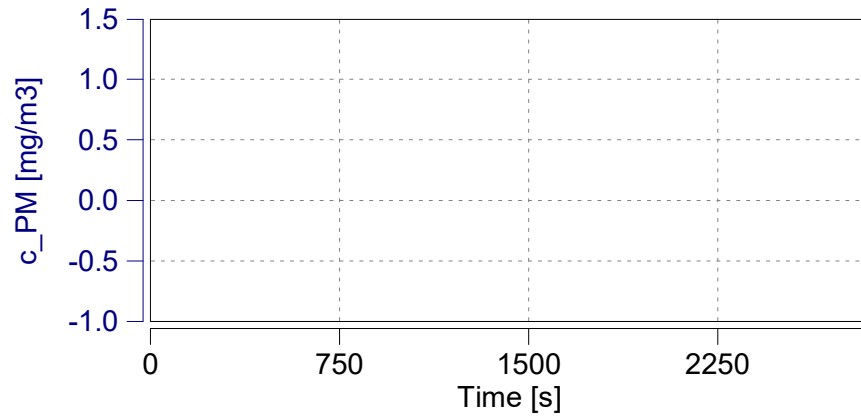
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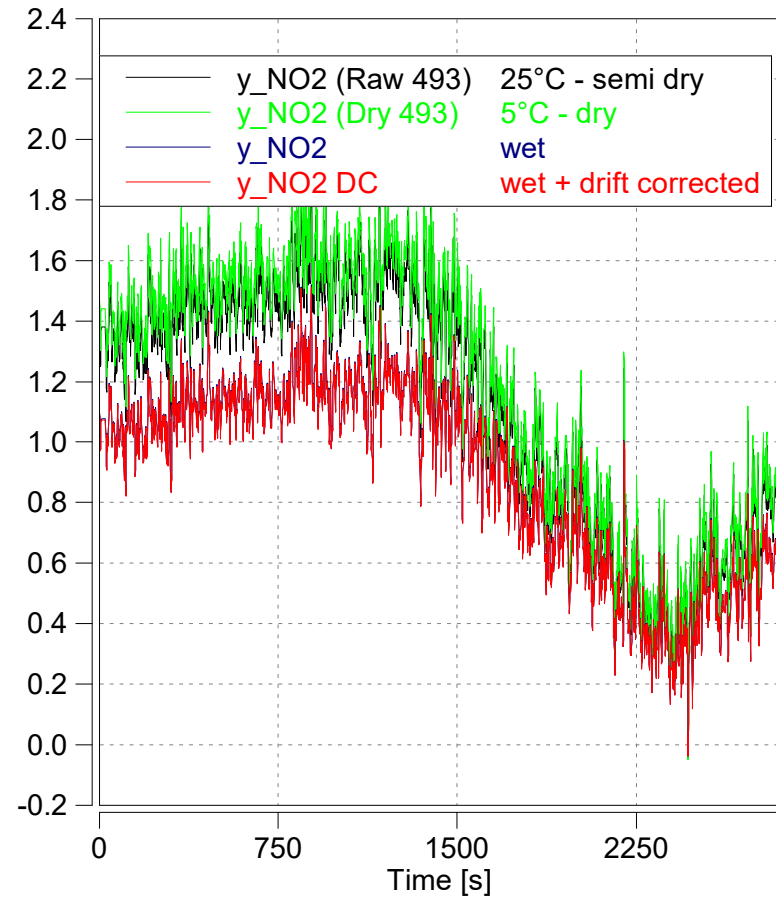
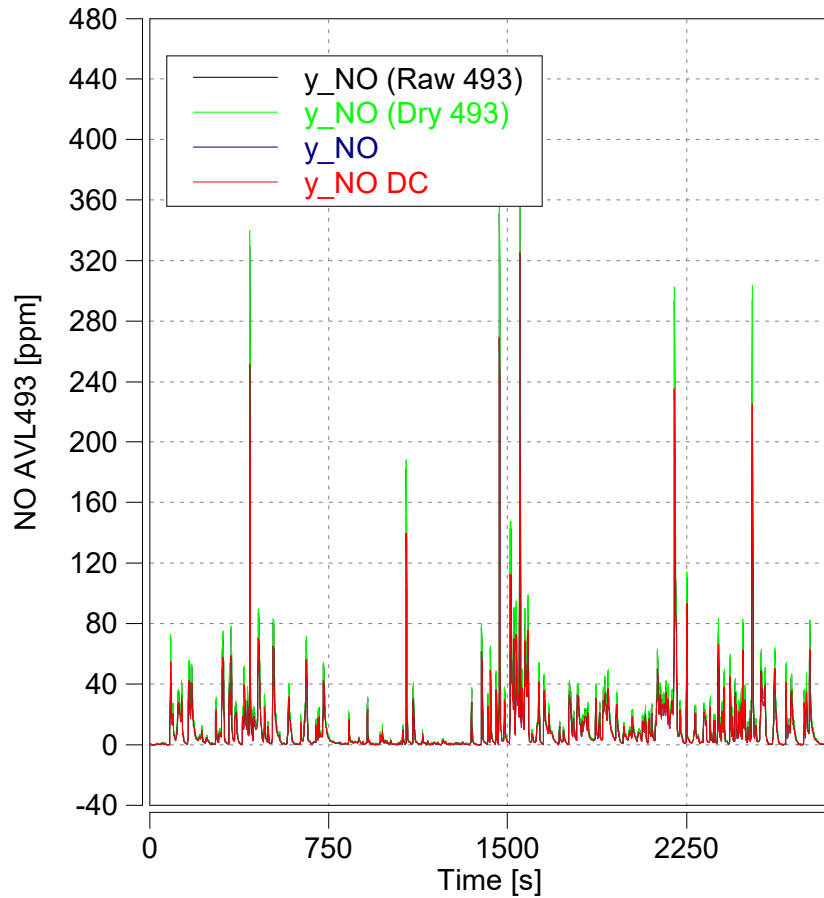


Concerto M.O.V.E., 2019



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

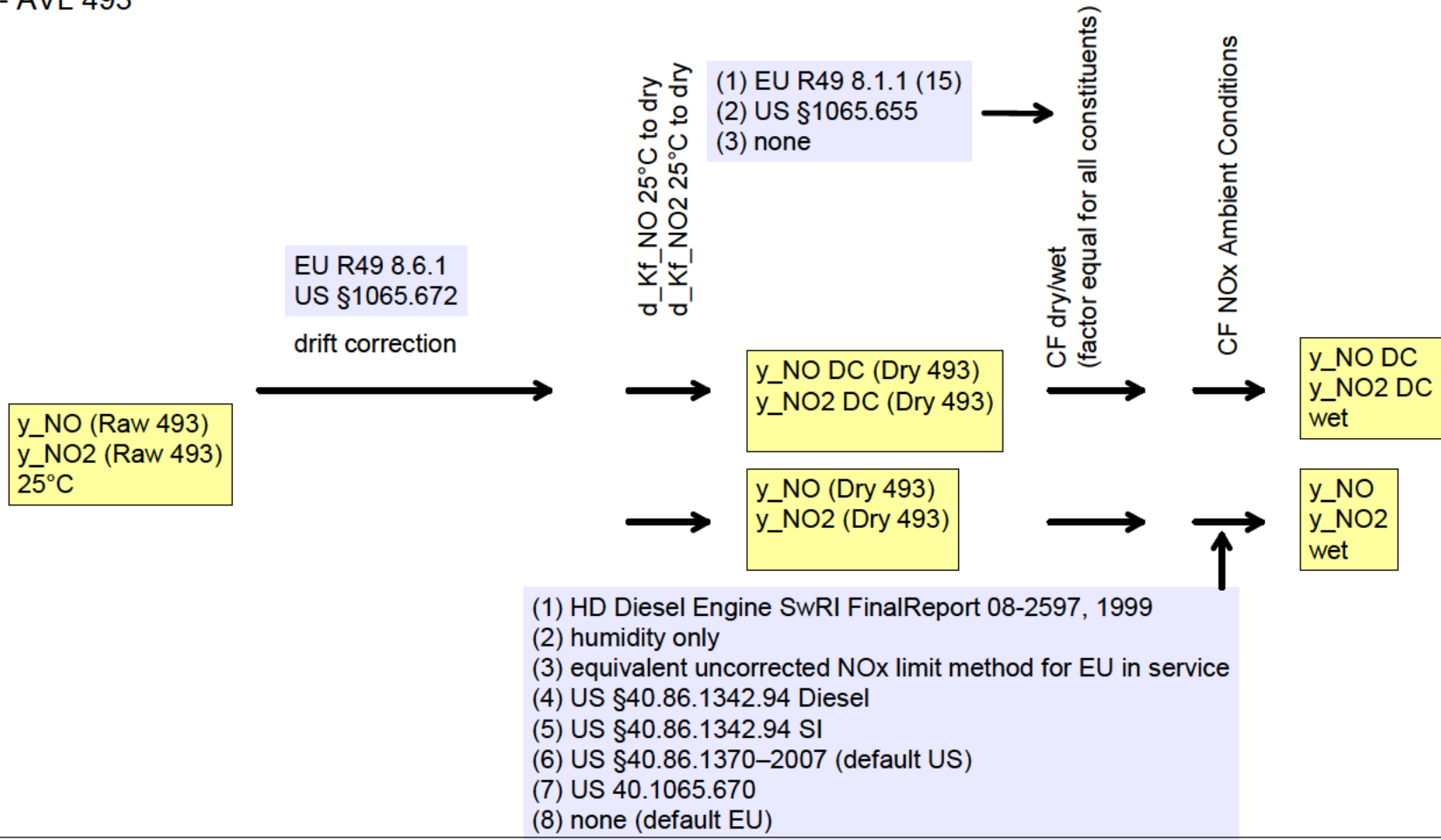


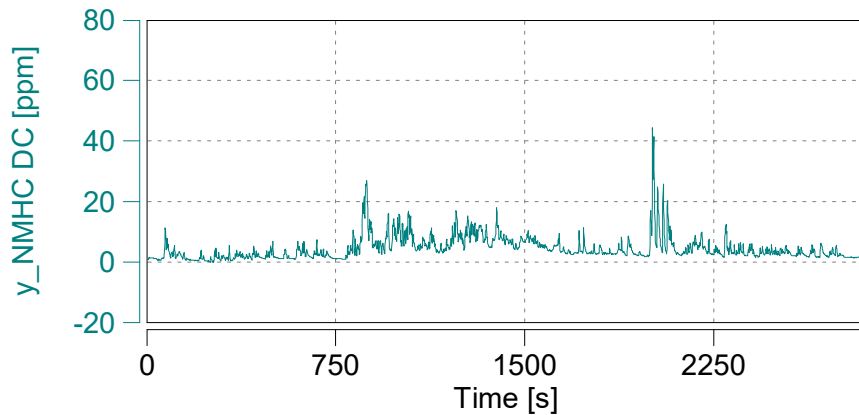
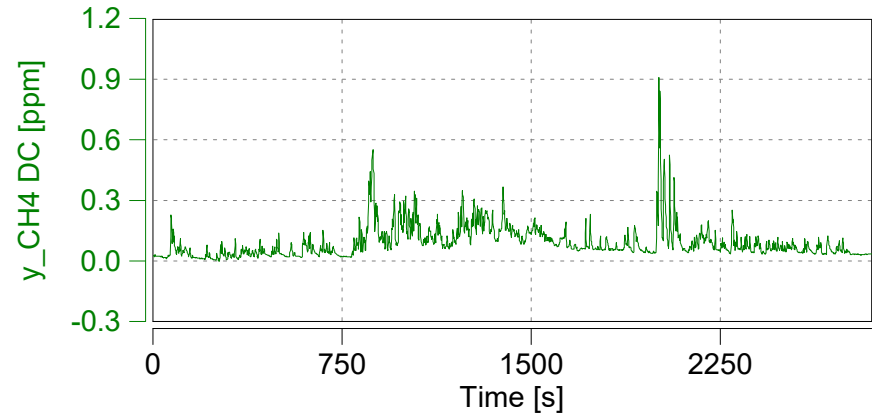
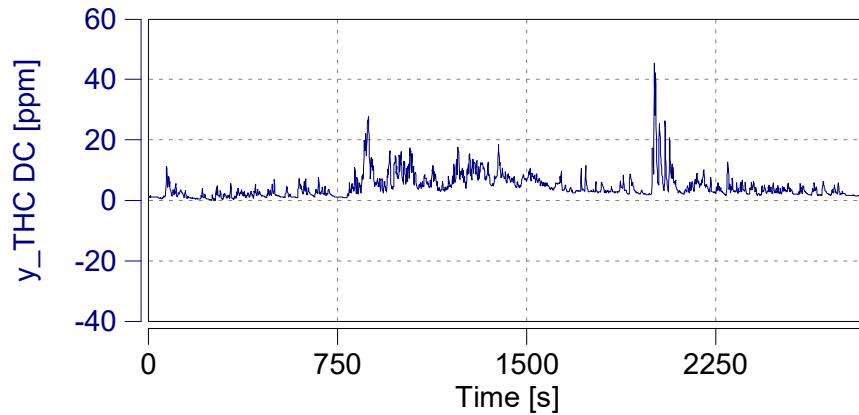
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



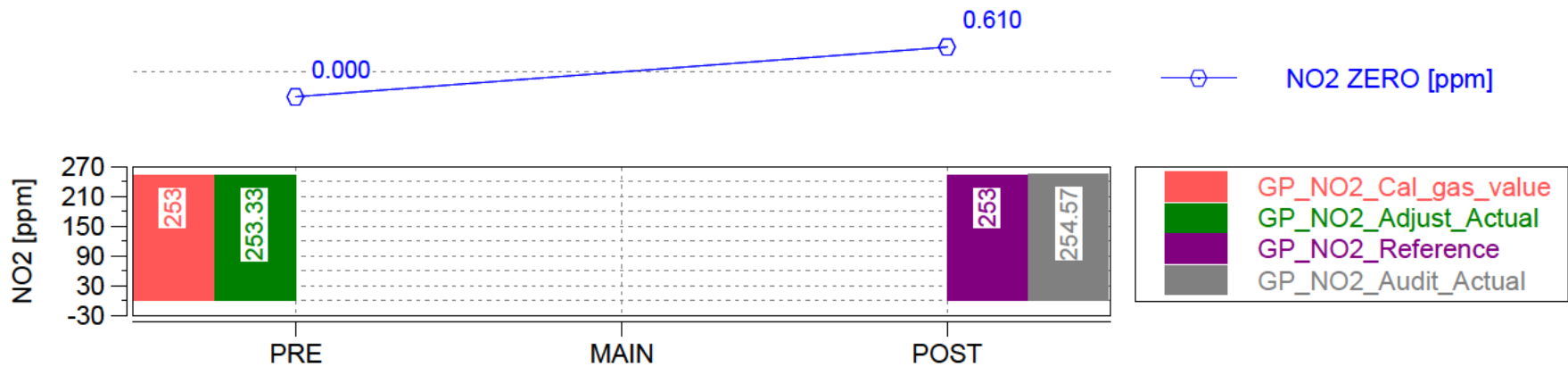
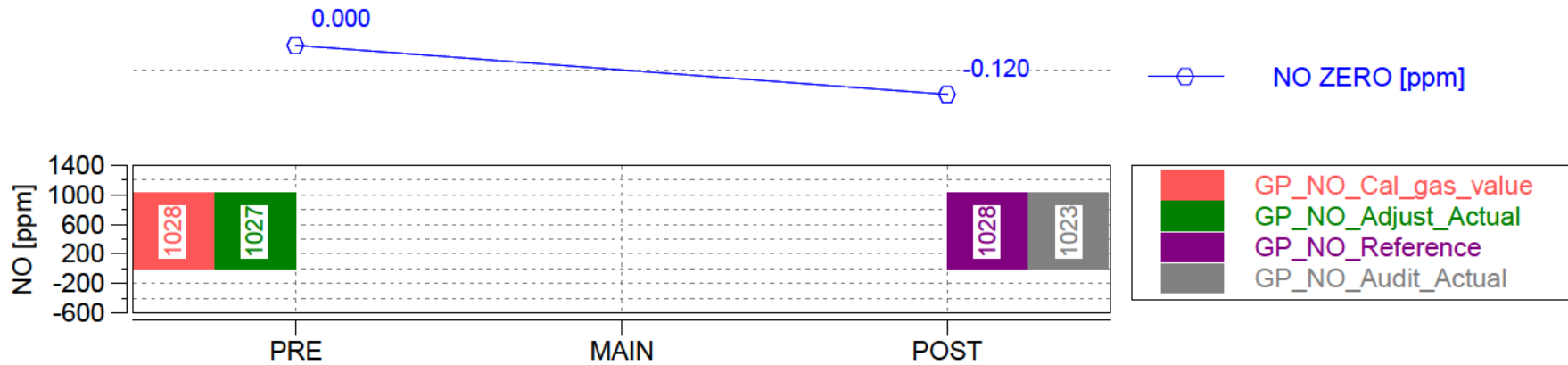
NOx - AVL 493





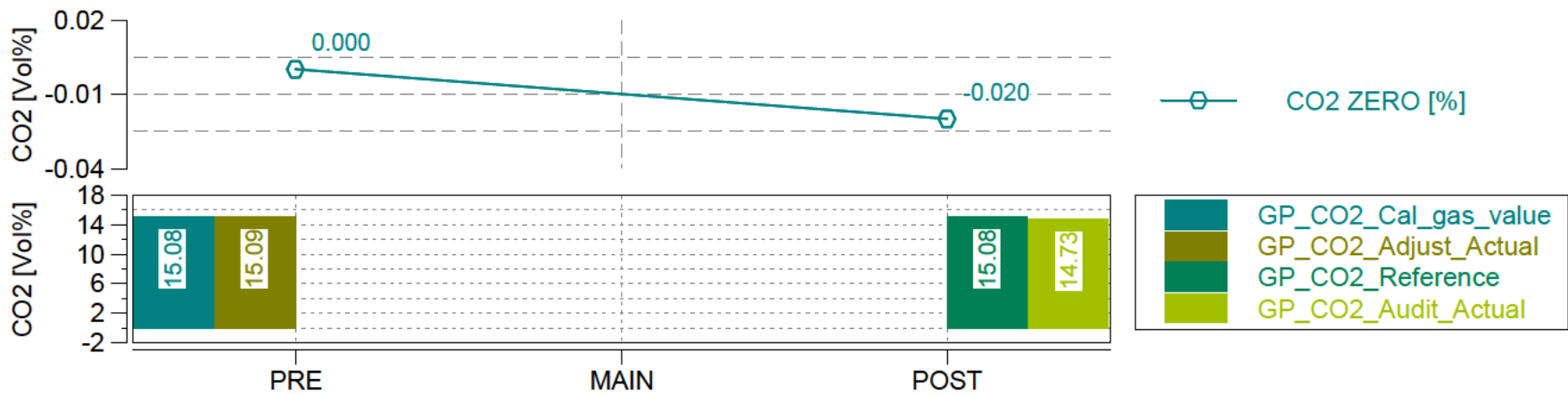
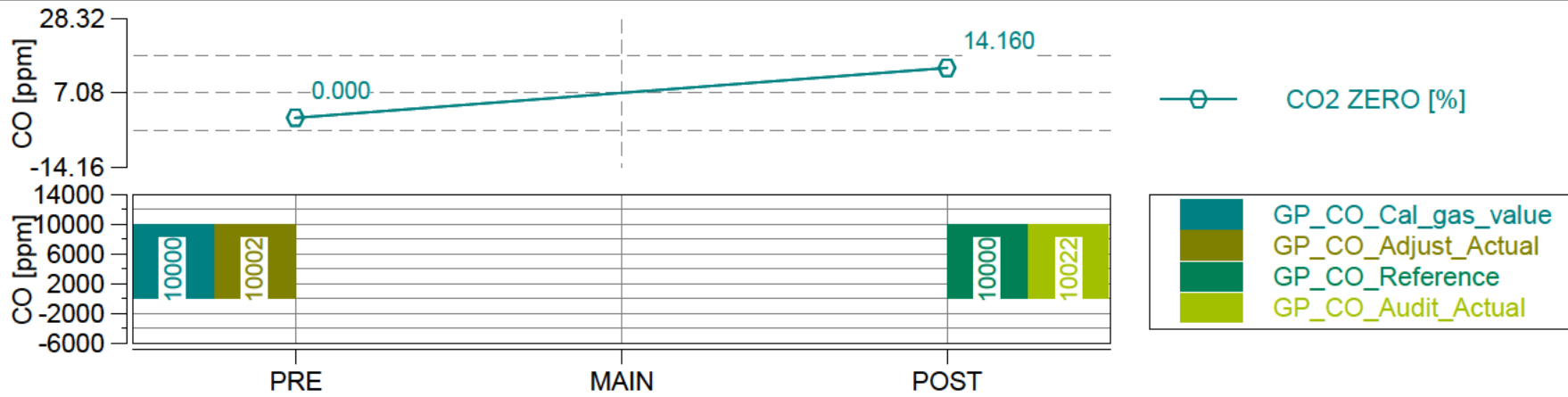
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Legislation:

Vehicle: A6 / 2.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



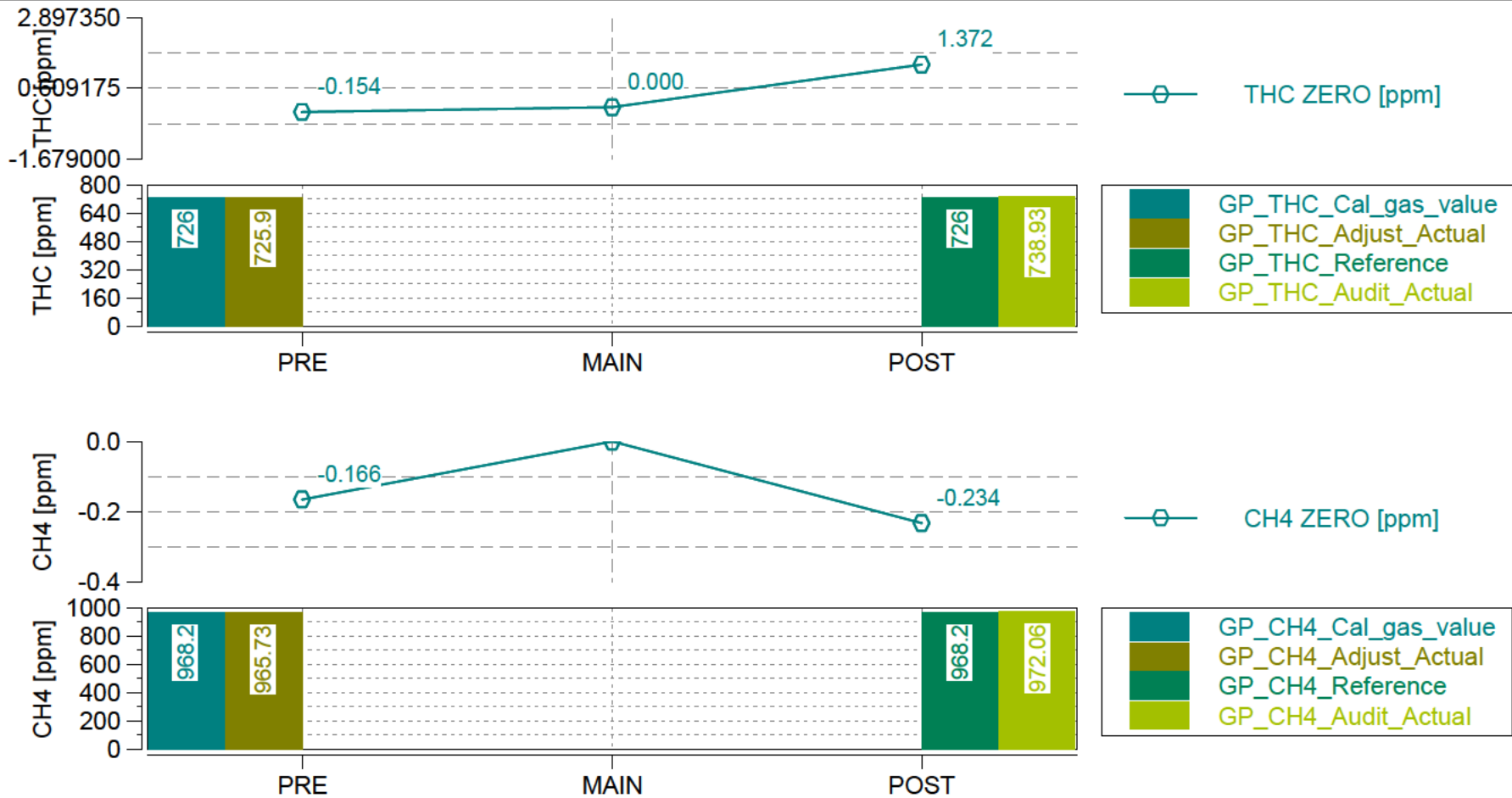
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 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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Vehicle: A6 / 2.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: 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

'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



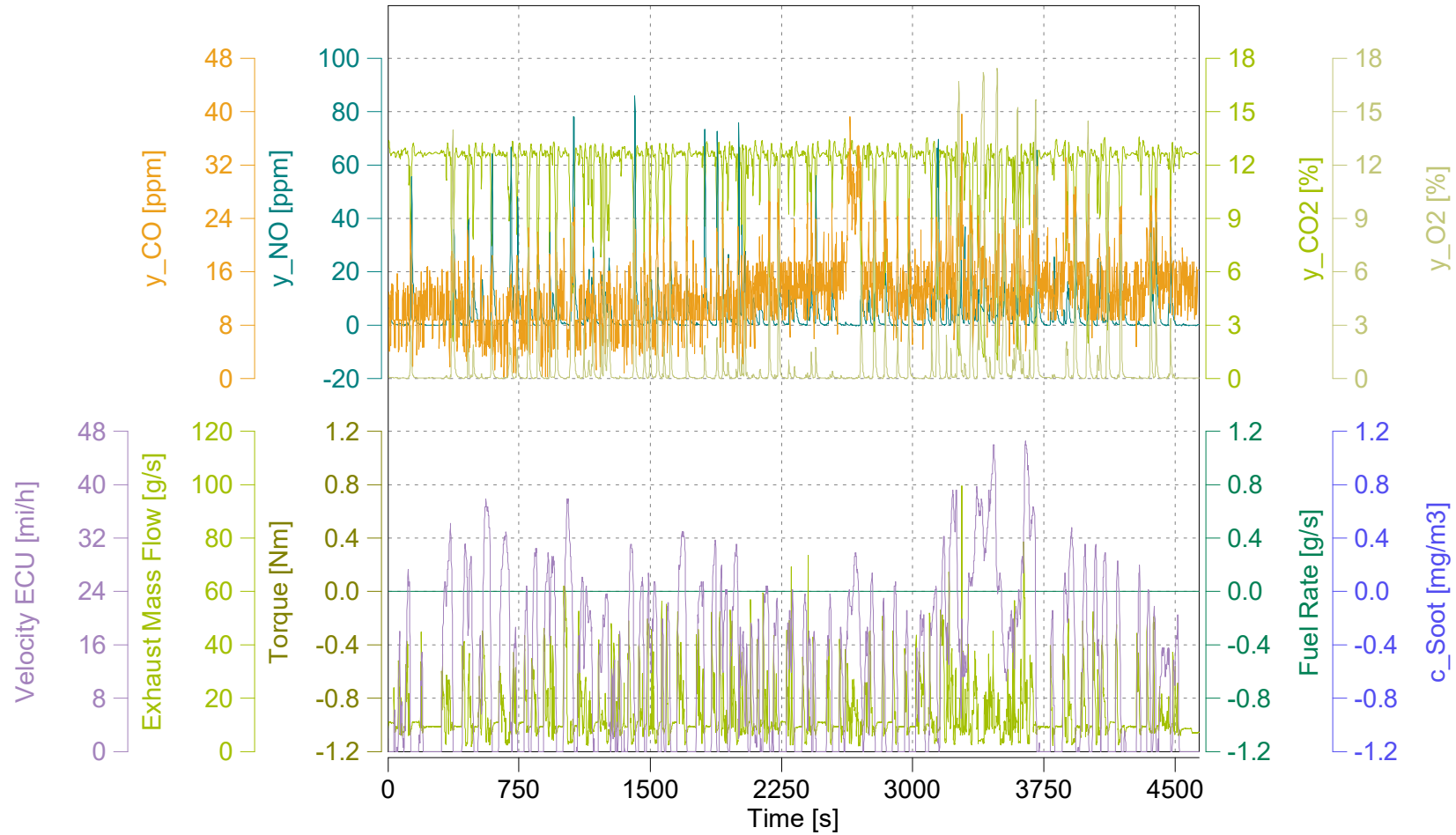
Concerto M.O.V.E., 2019

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

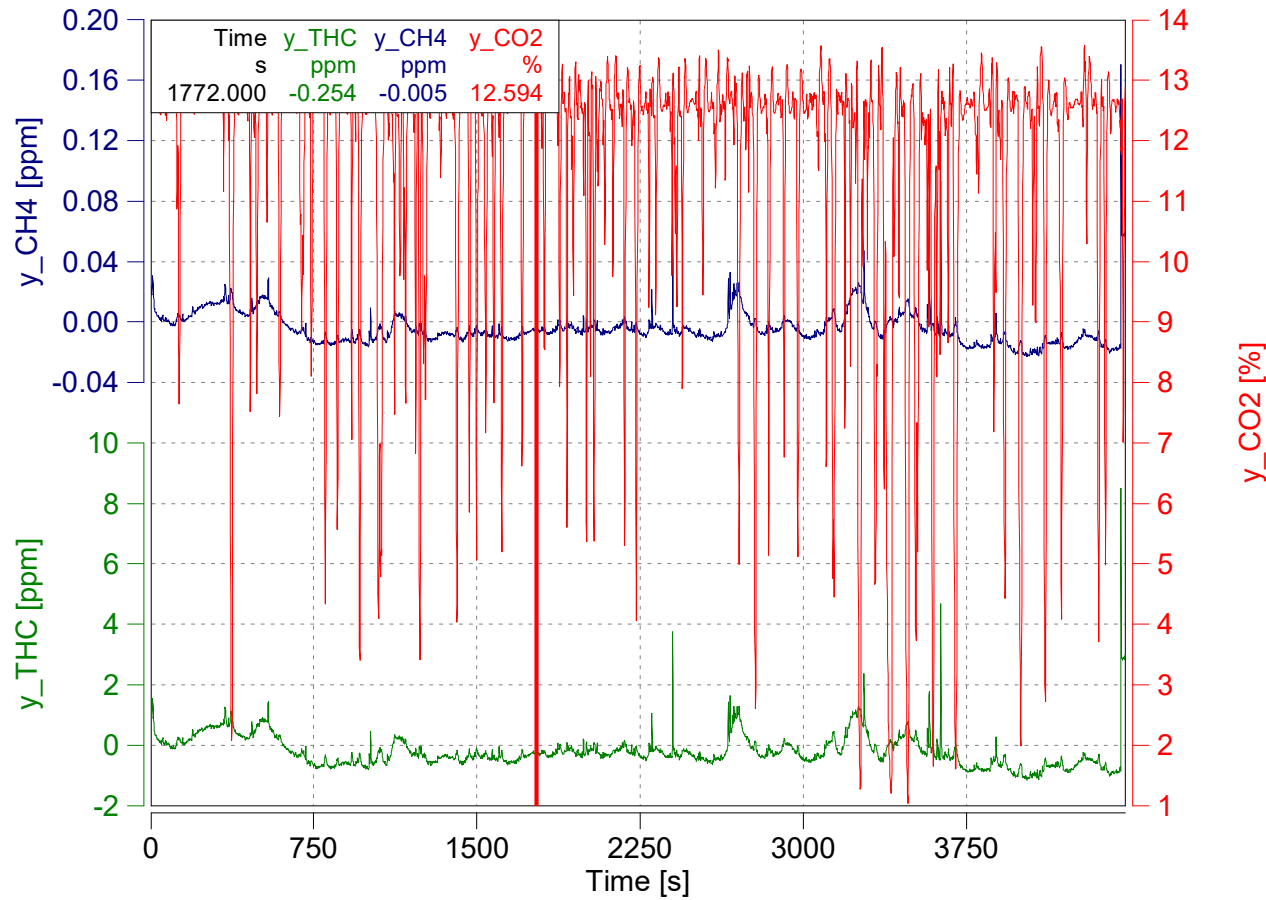
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



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Absolute Time Shifts

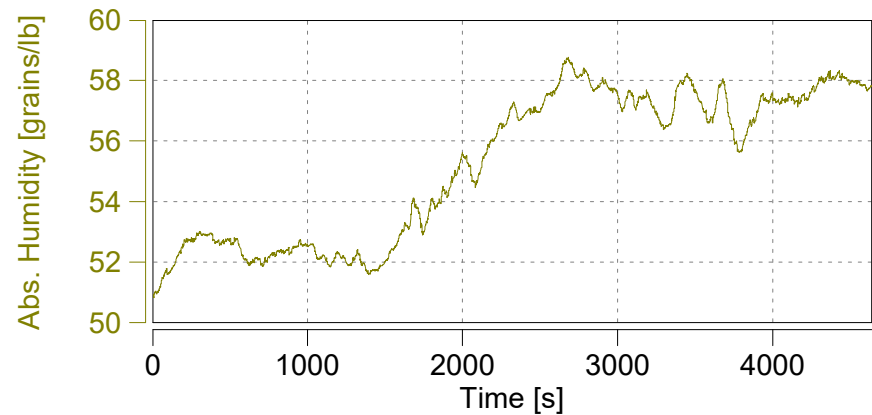
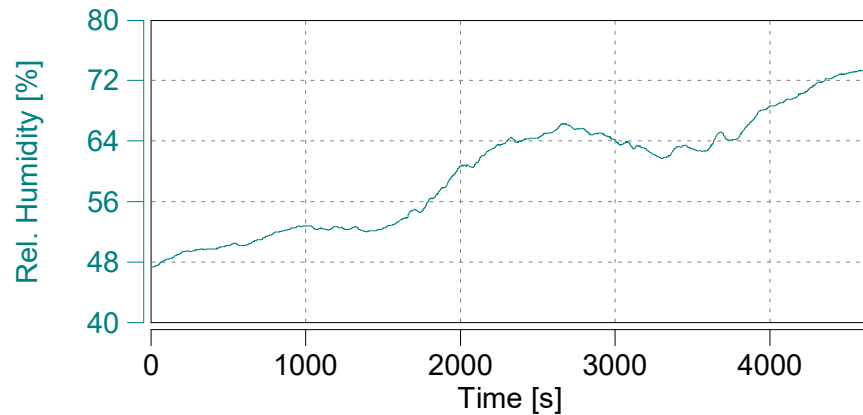
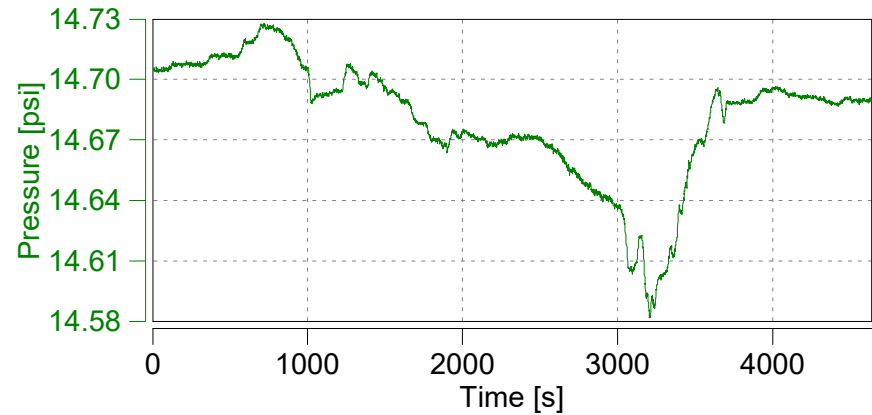
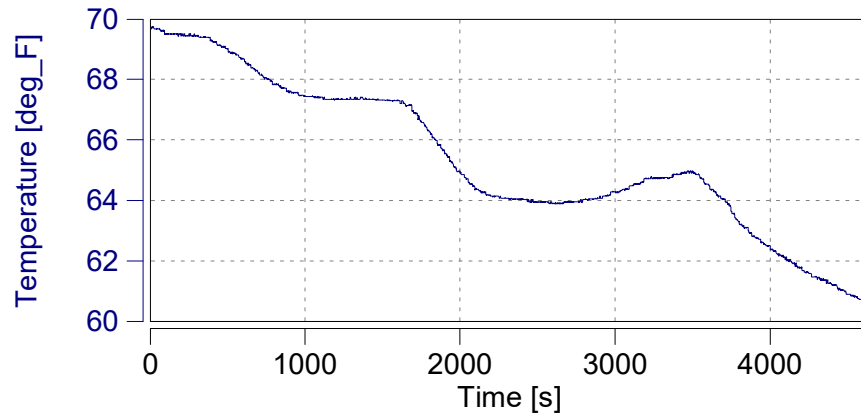
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y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

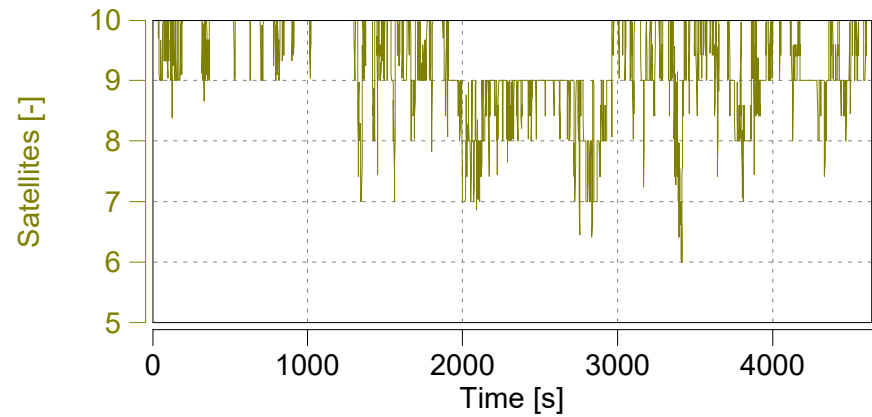
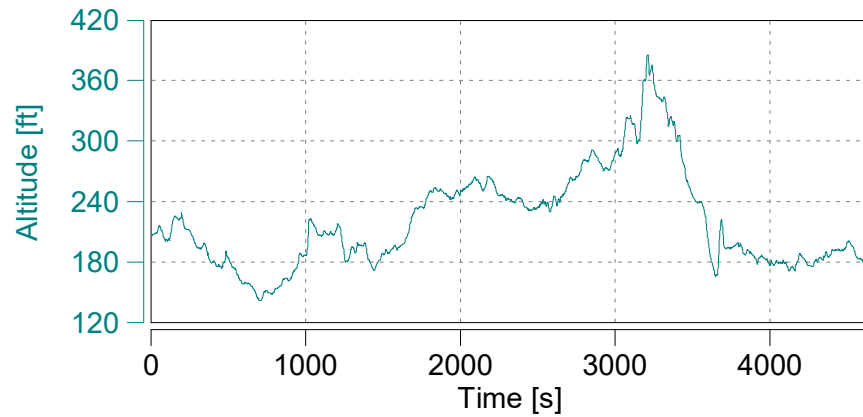
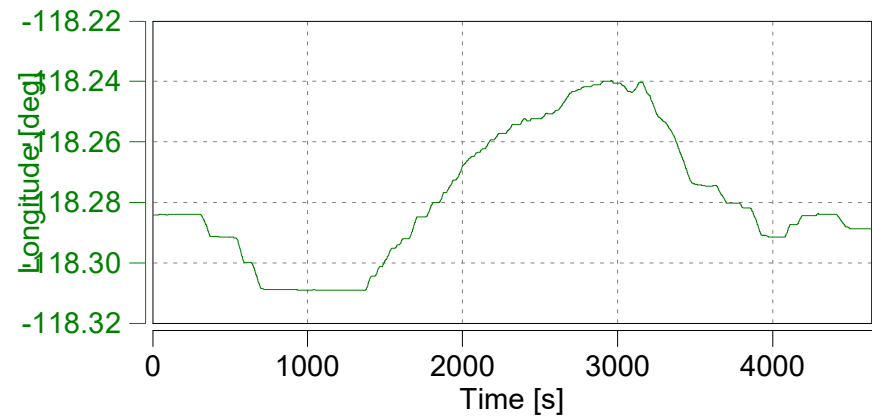
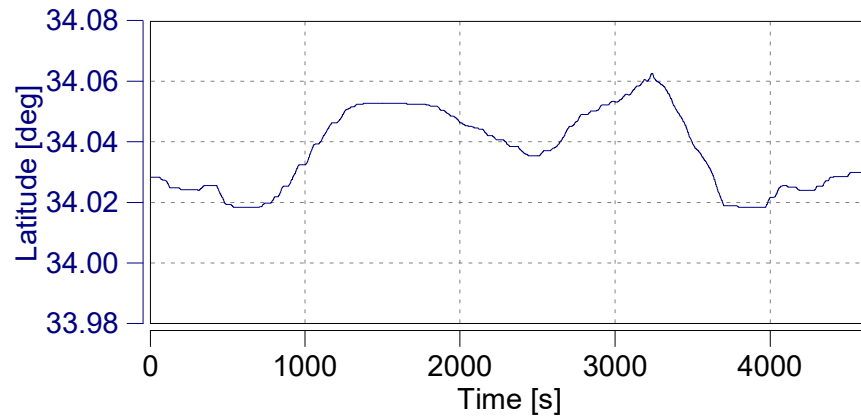
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NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (1)

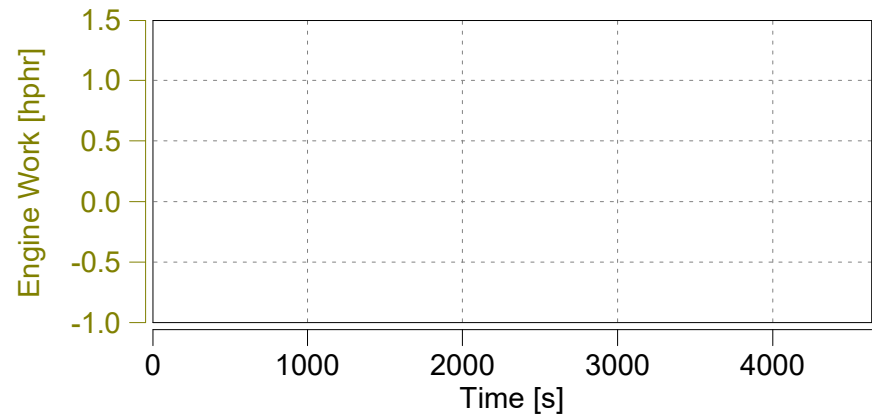
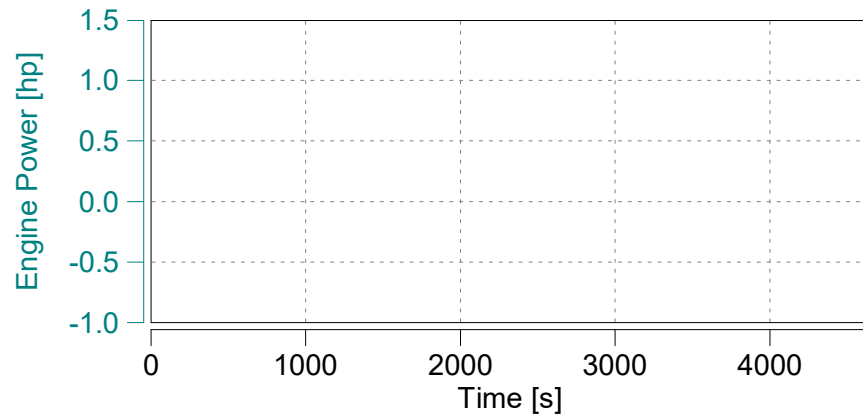
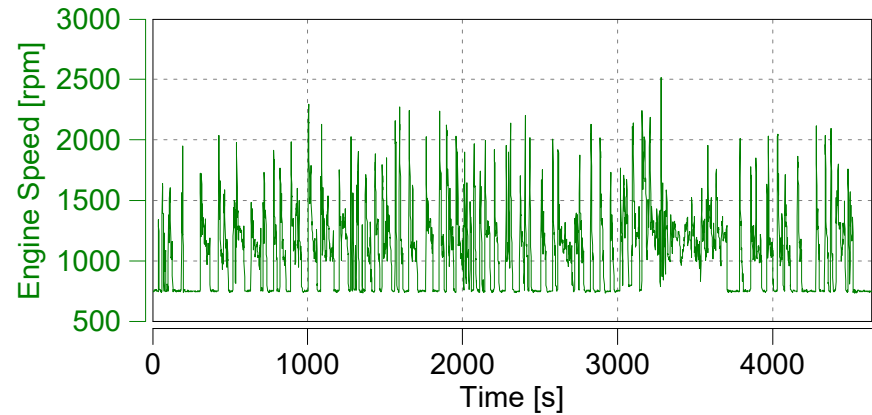
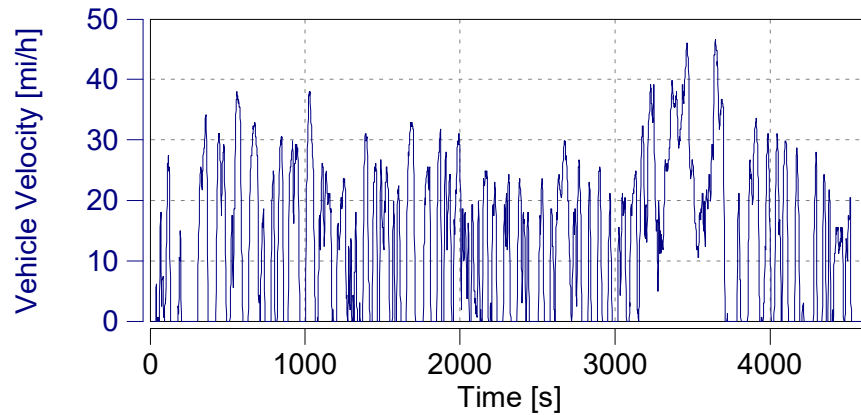
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0

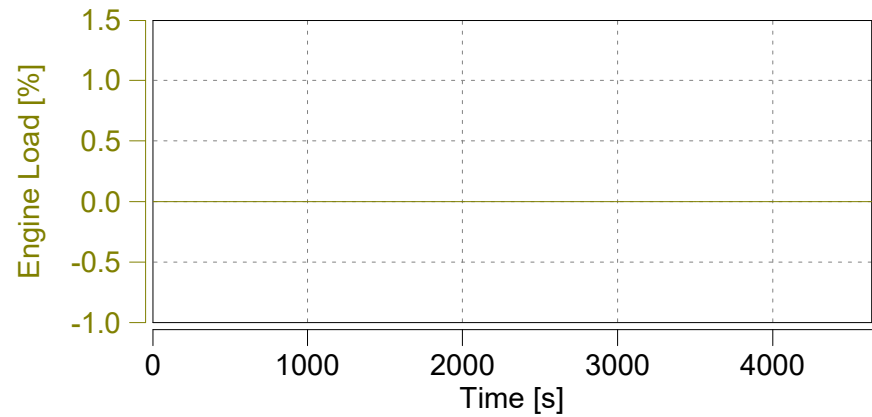
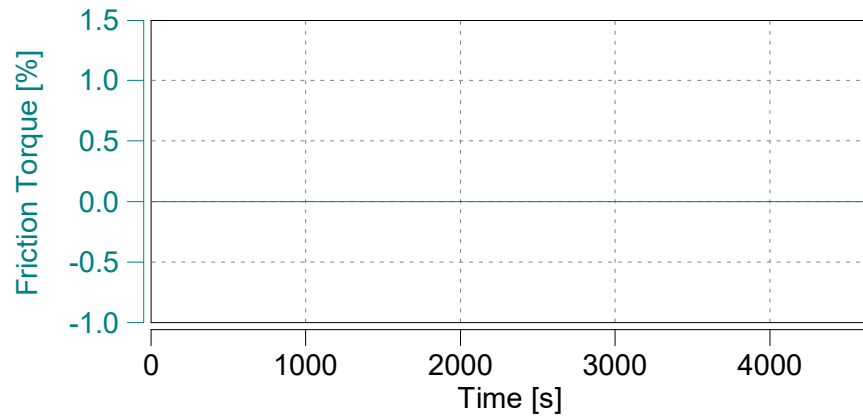
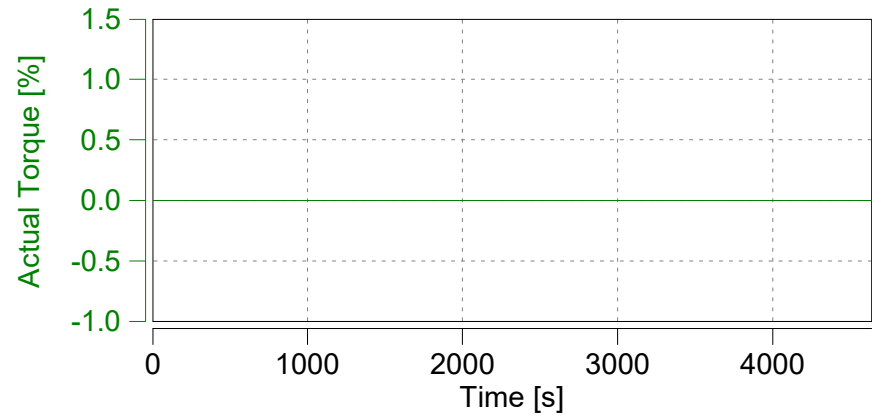
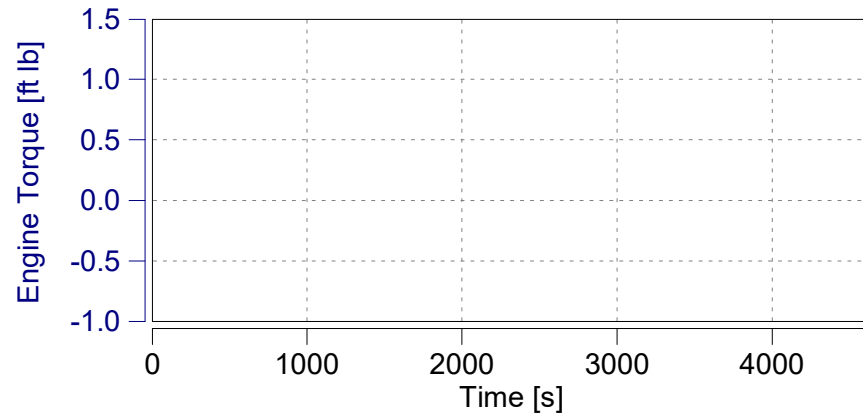


Concerto M.O.V.E., 2019



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NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90

Case: City

Page: Engine (3)

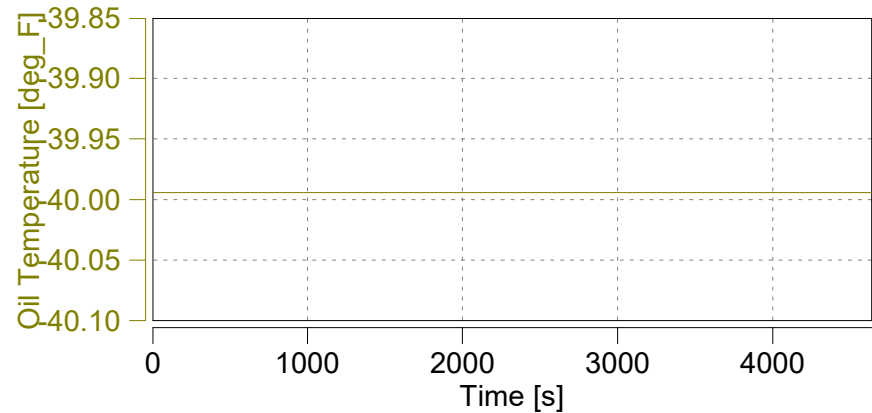
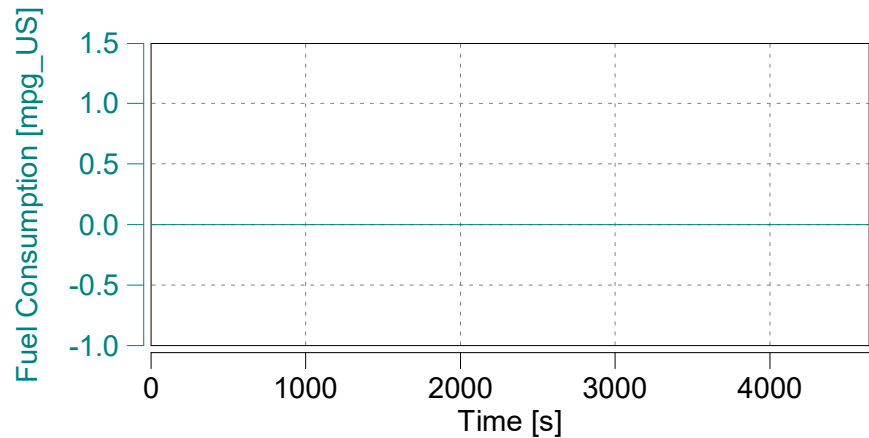
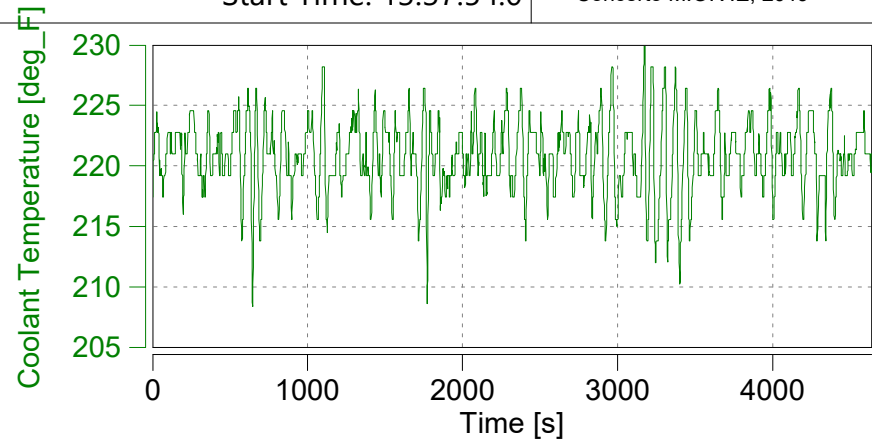
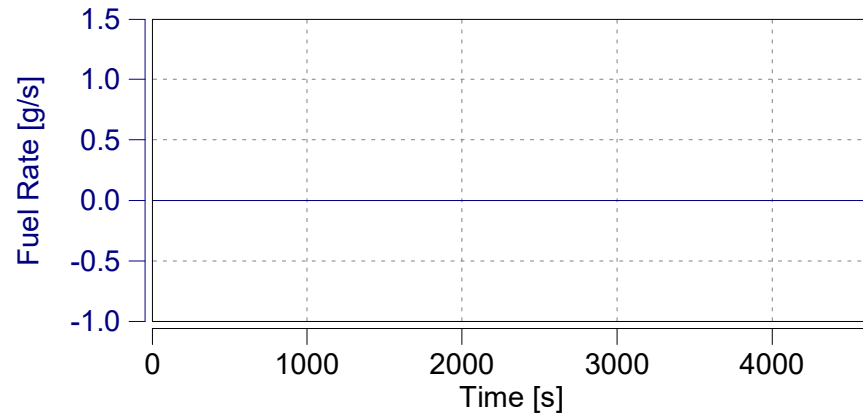
'City'

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
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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)

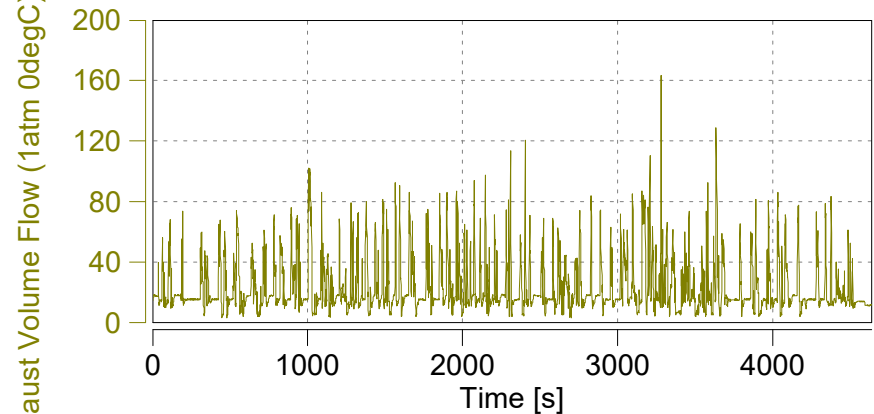
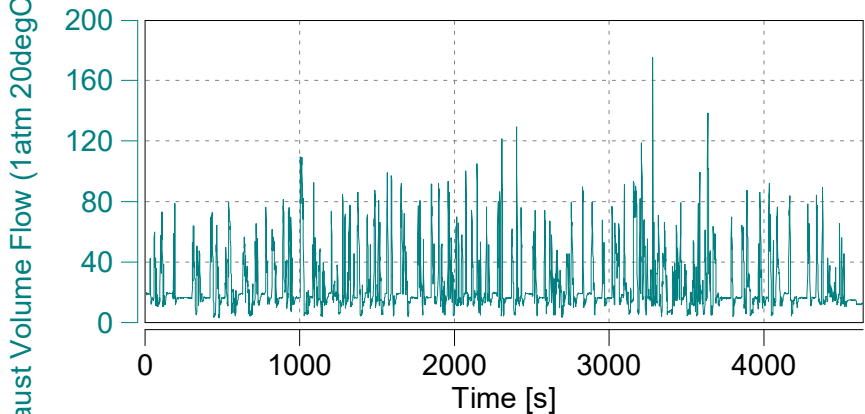
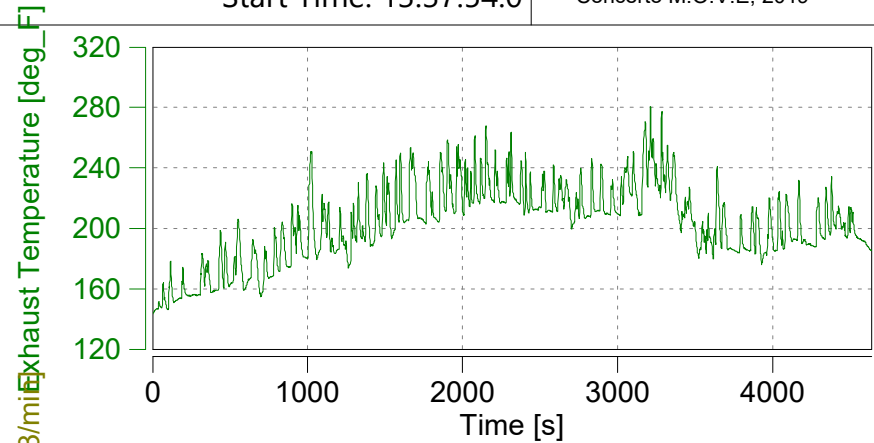
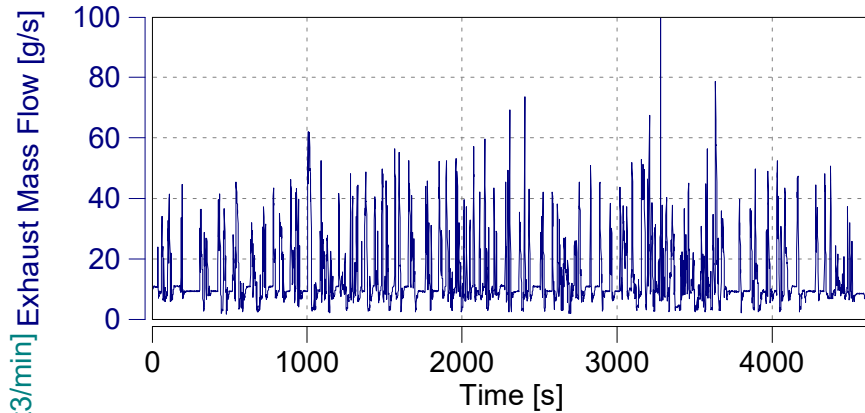
'City'

Start Date: 12/06/2019

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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 (2)

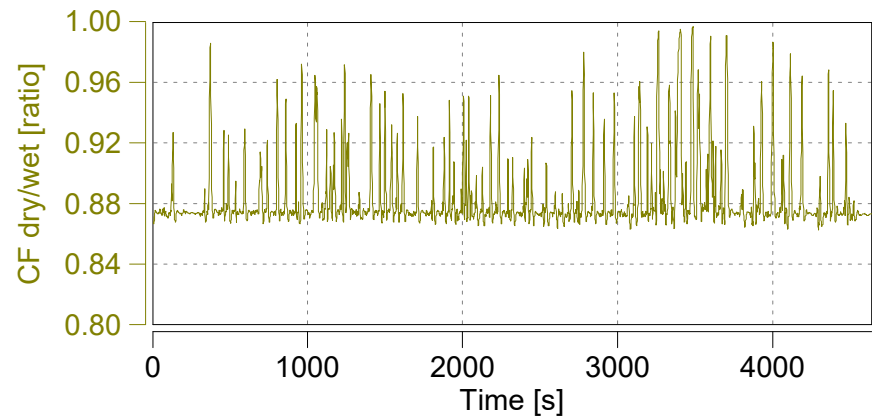
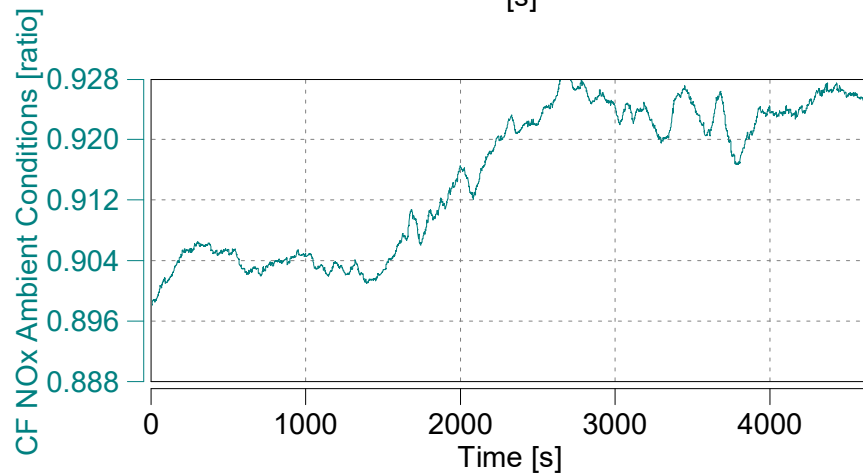
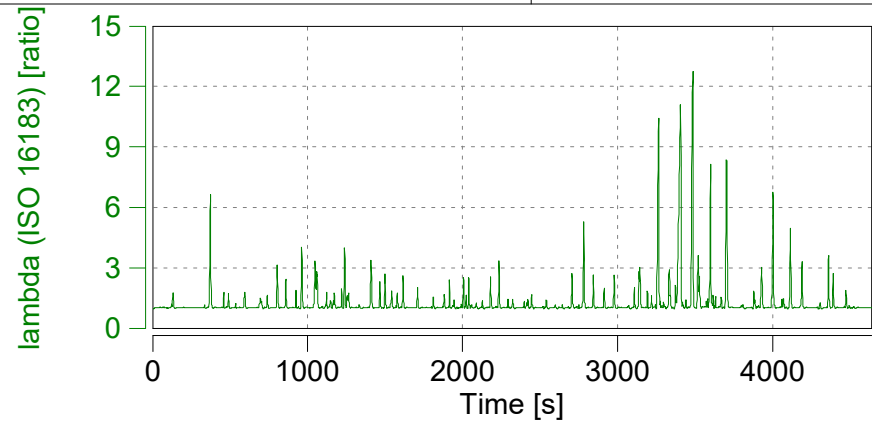
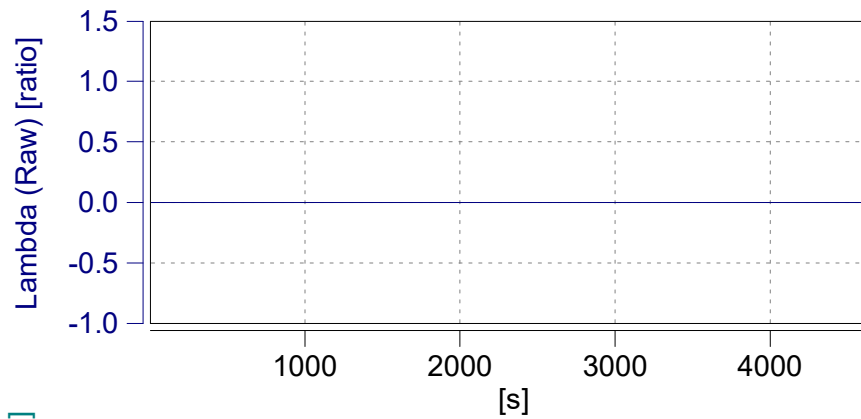
'City'

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

Case: City

Page: Corrected Emissions (1)

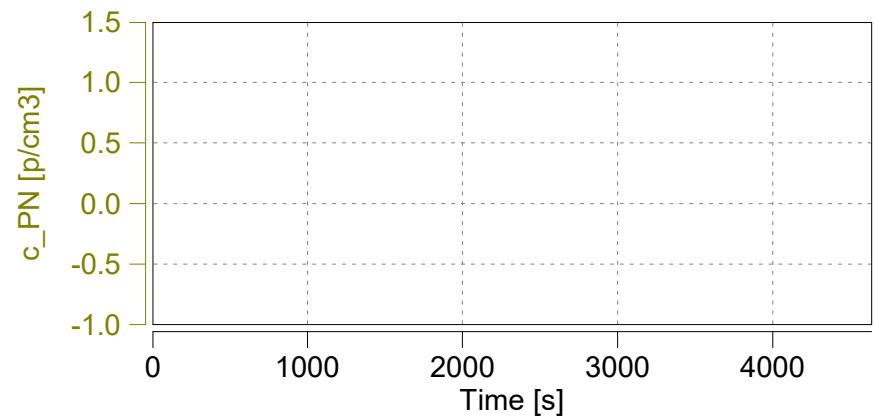
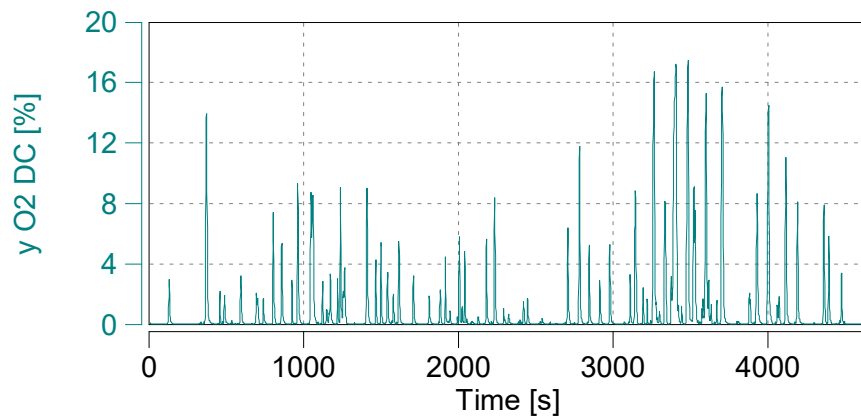
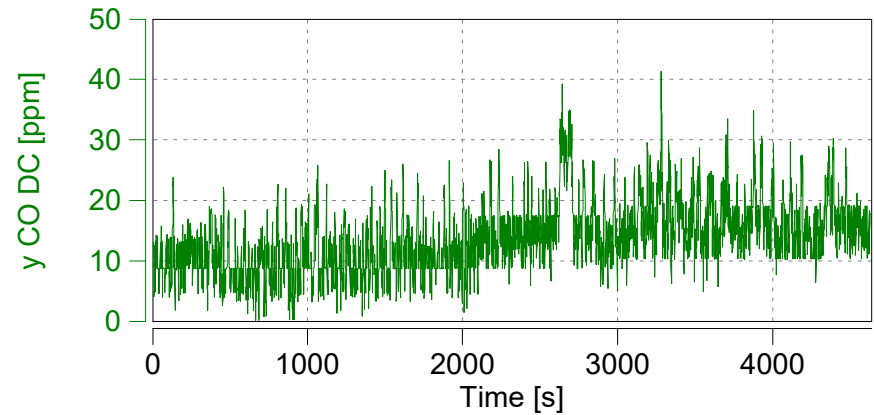
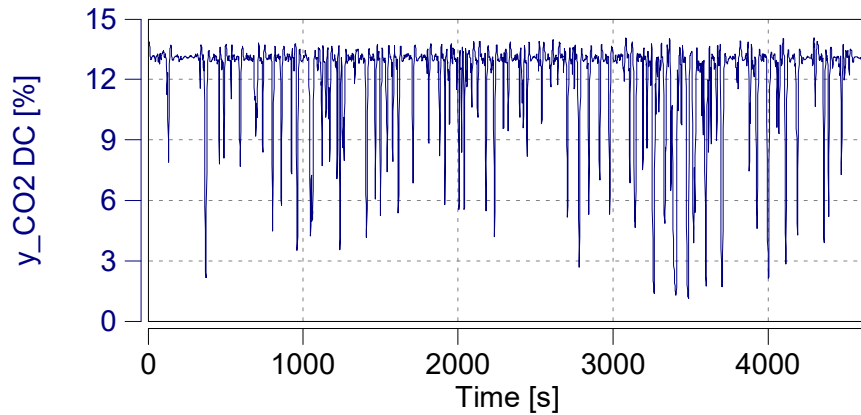
'City'

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)

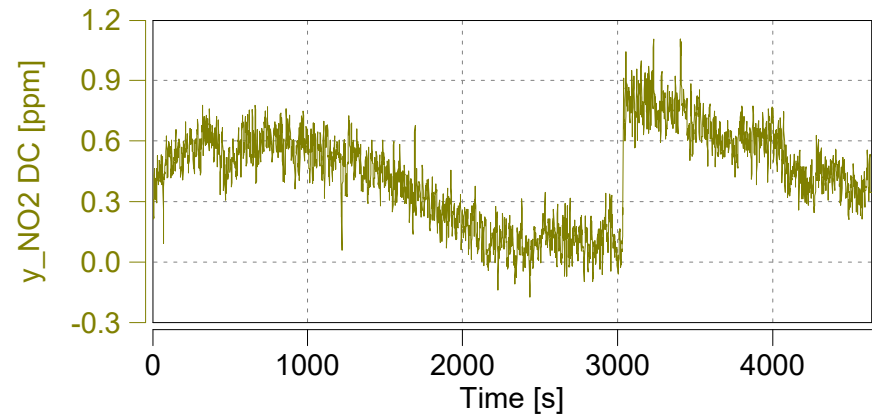
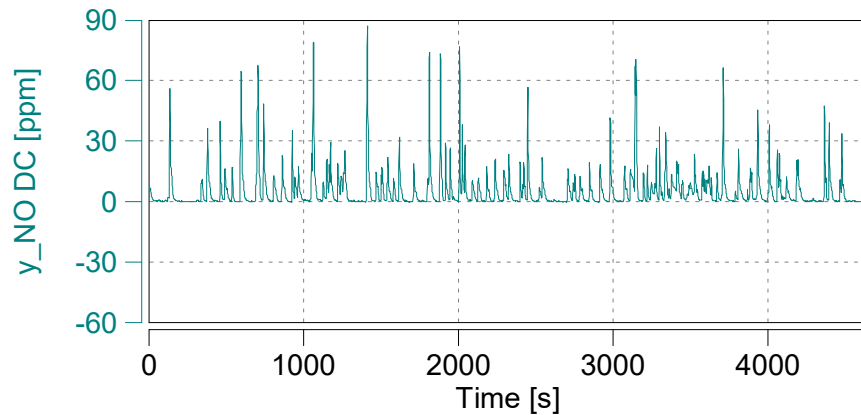
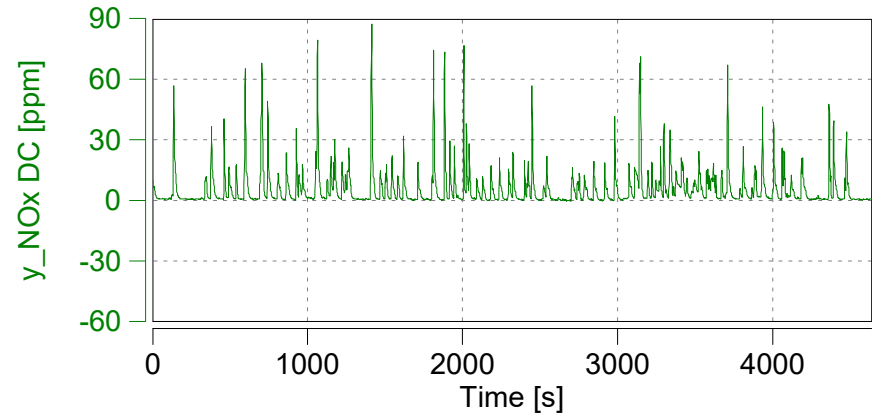
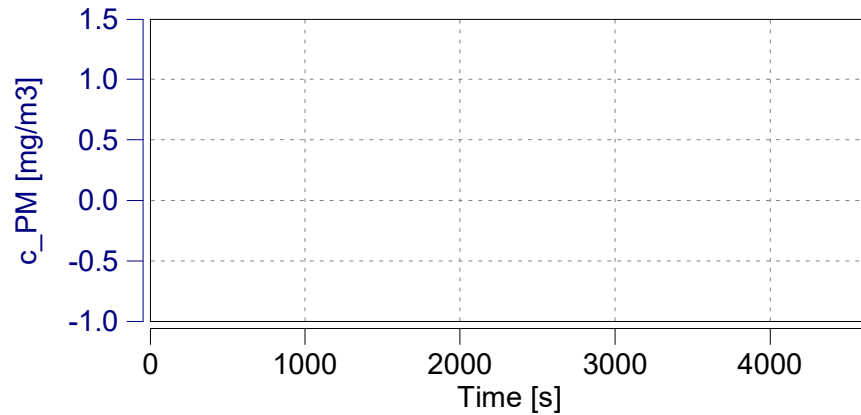
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0

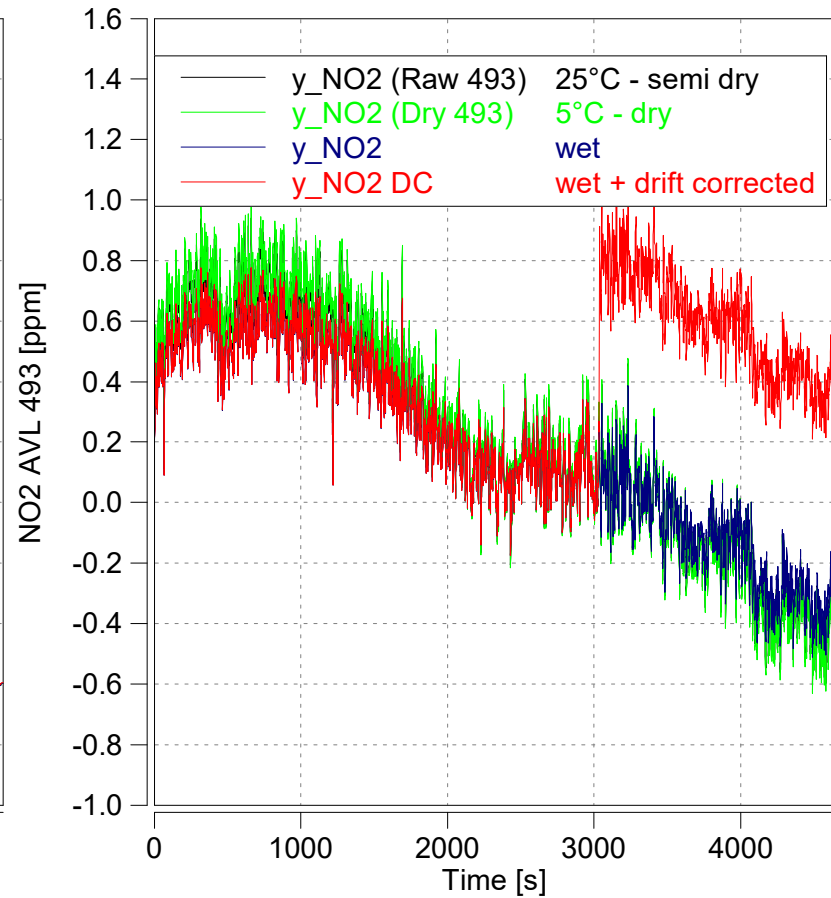
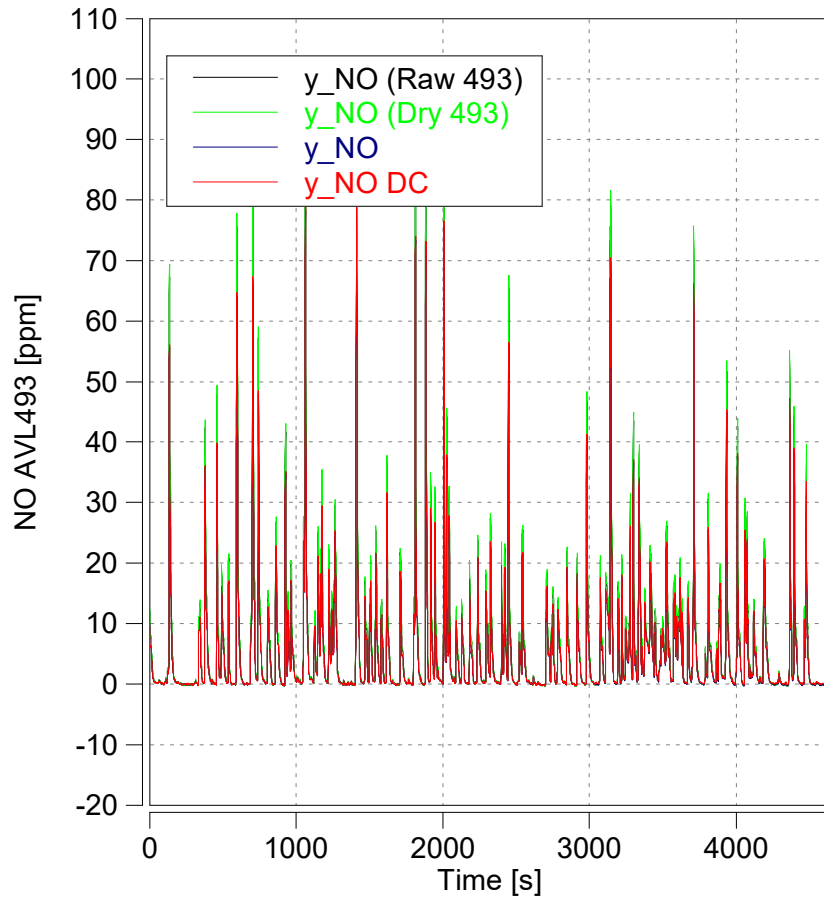


Concerto M.O.V.E., 2019



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

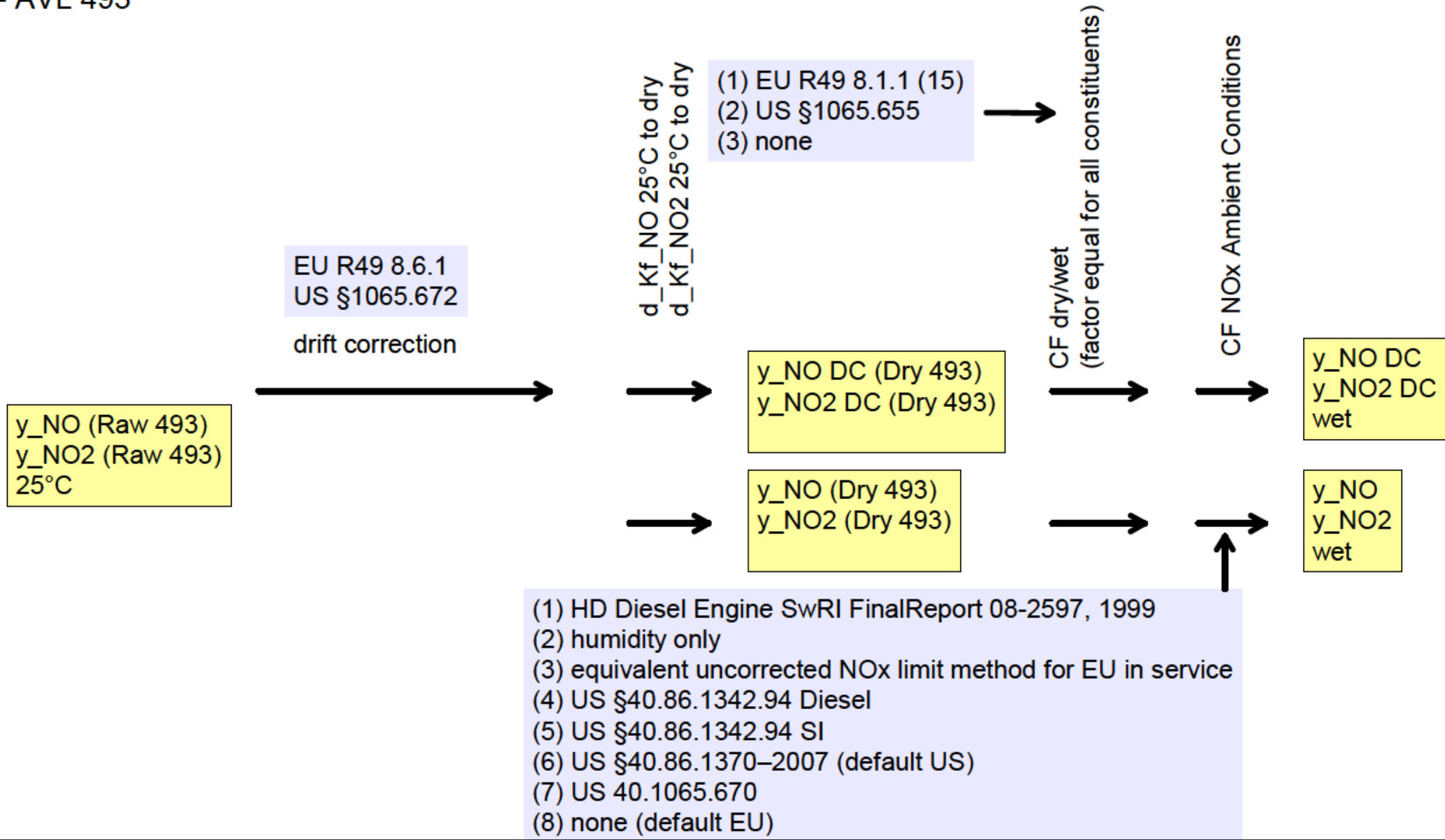


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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)

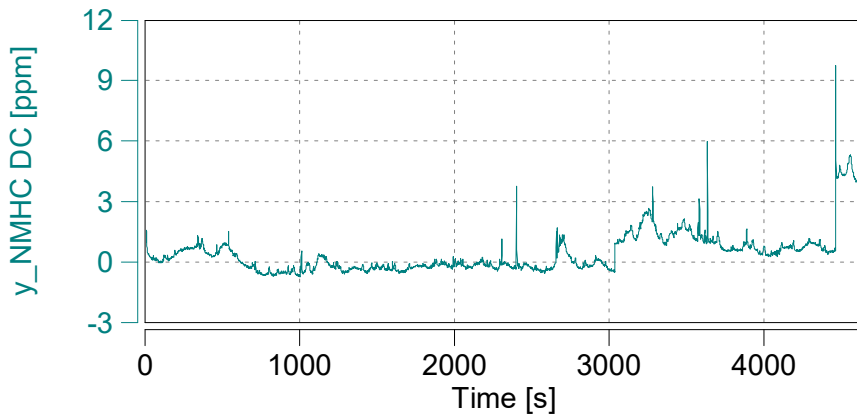
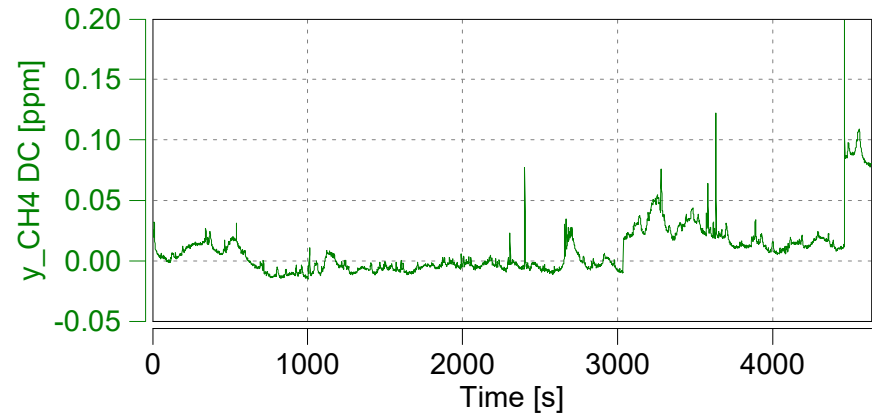
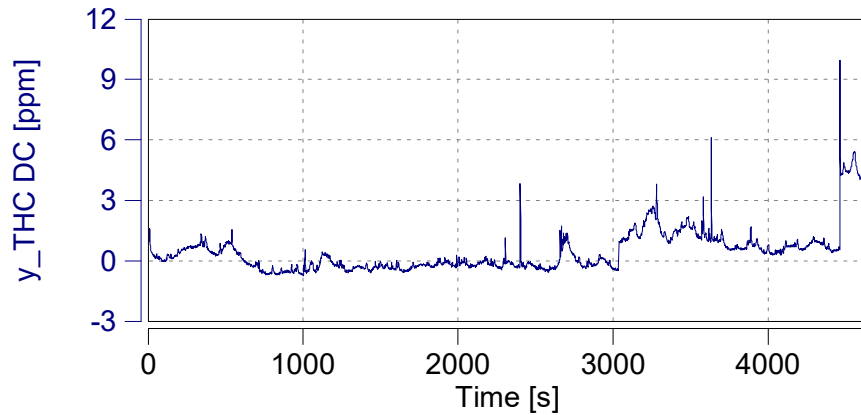
'City'

Start Date: 12/06/2019

Start Time: 13:37:54.0

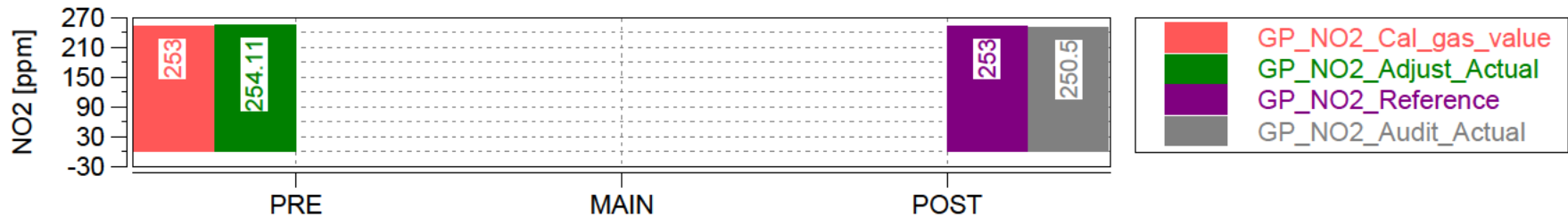
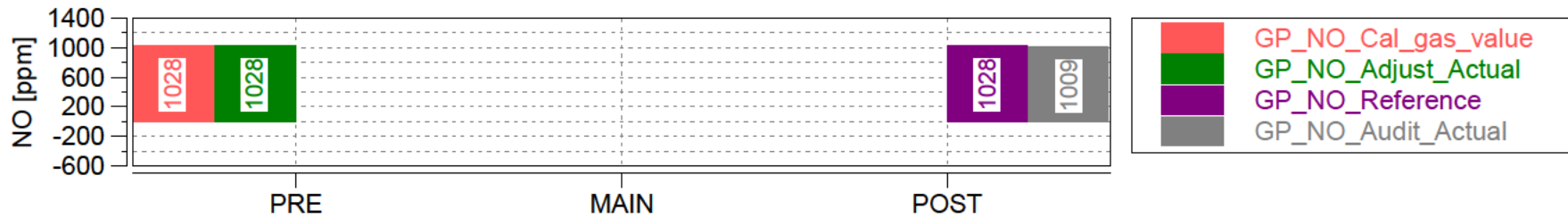
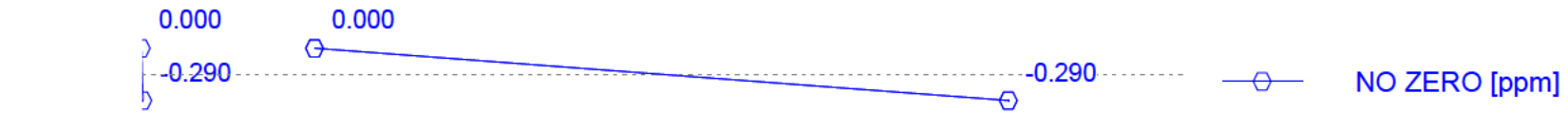


Concerto M.O.V.E., 2019



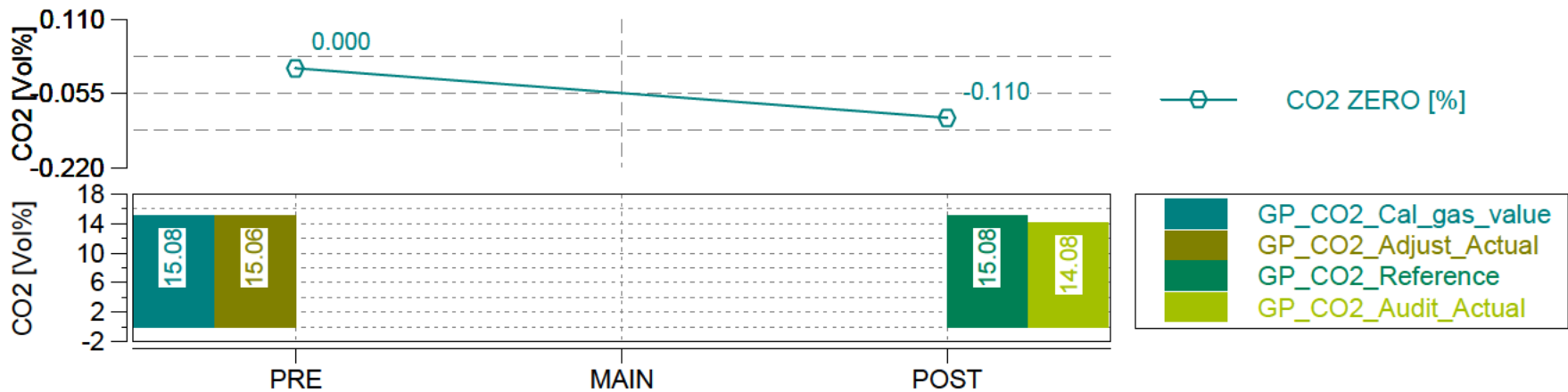
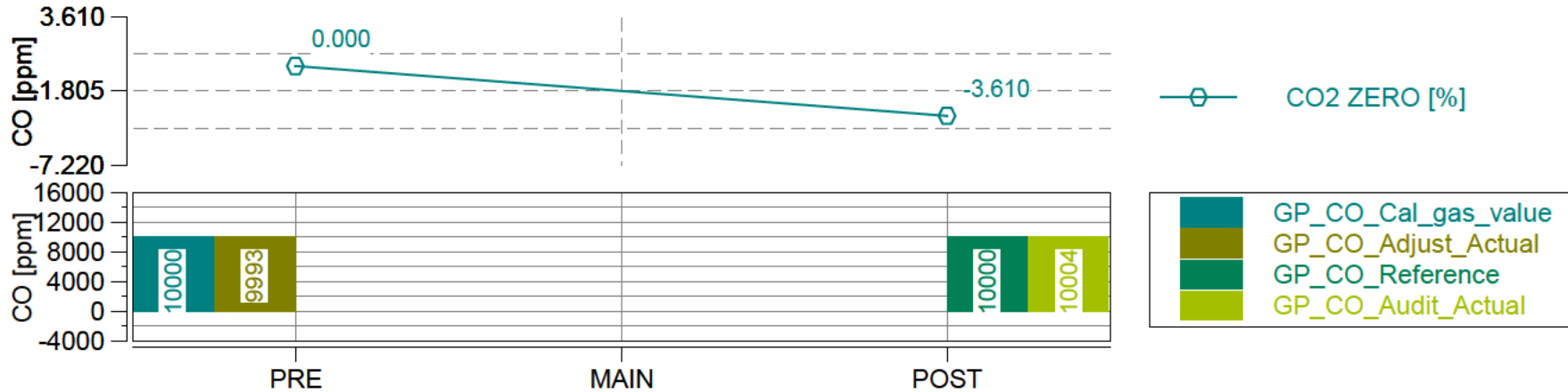
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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

Case: City

Page: THC/CH4 Zero - Span

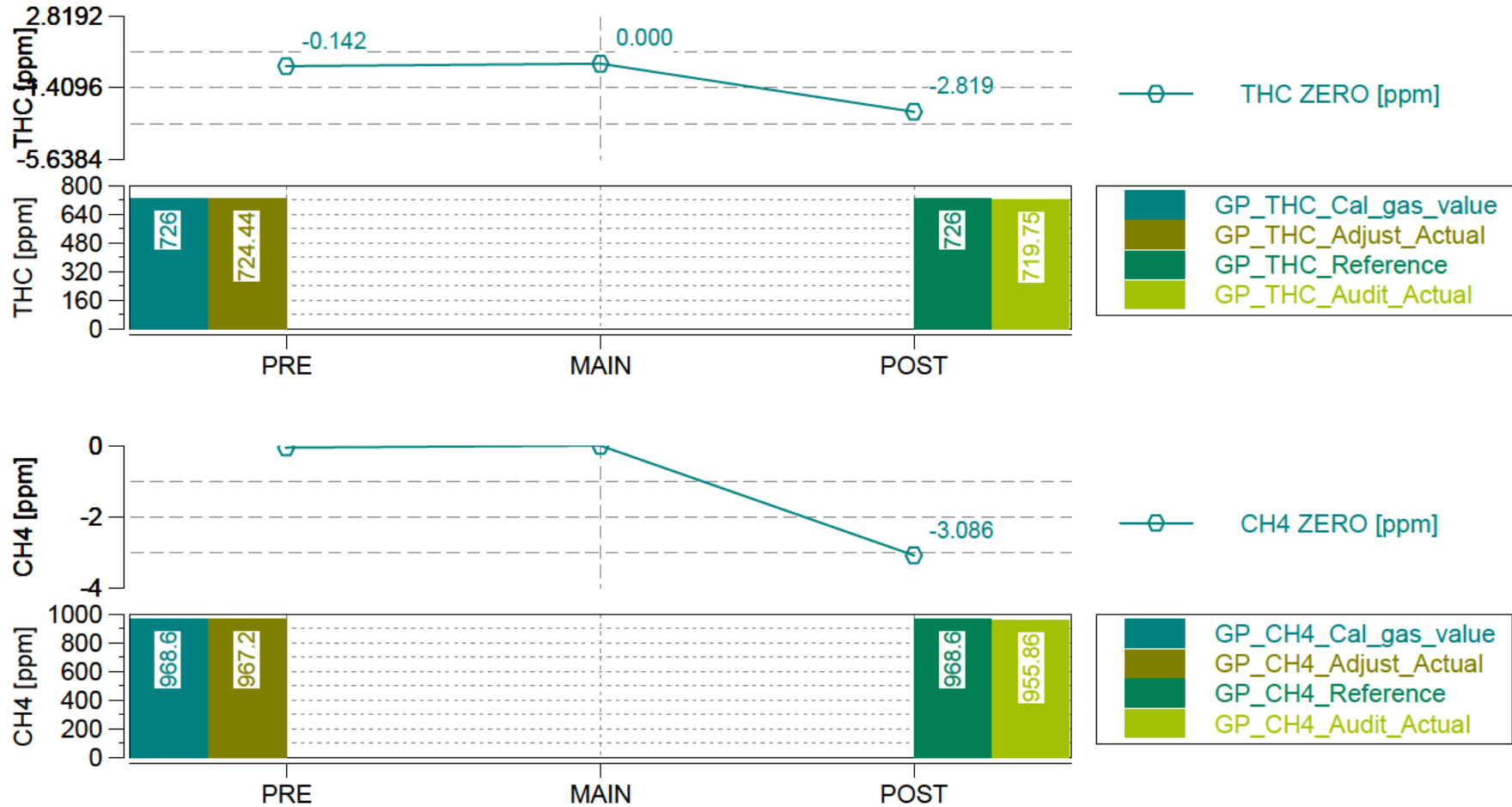
'City'

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



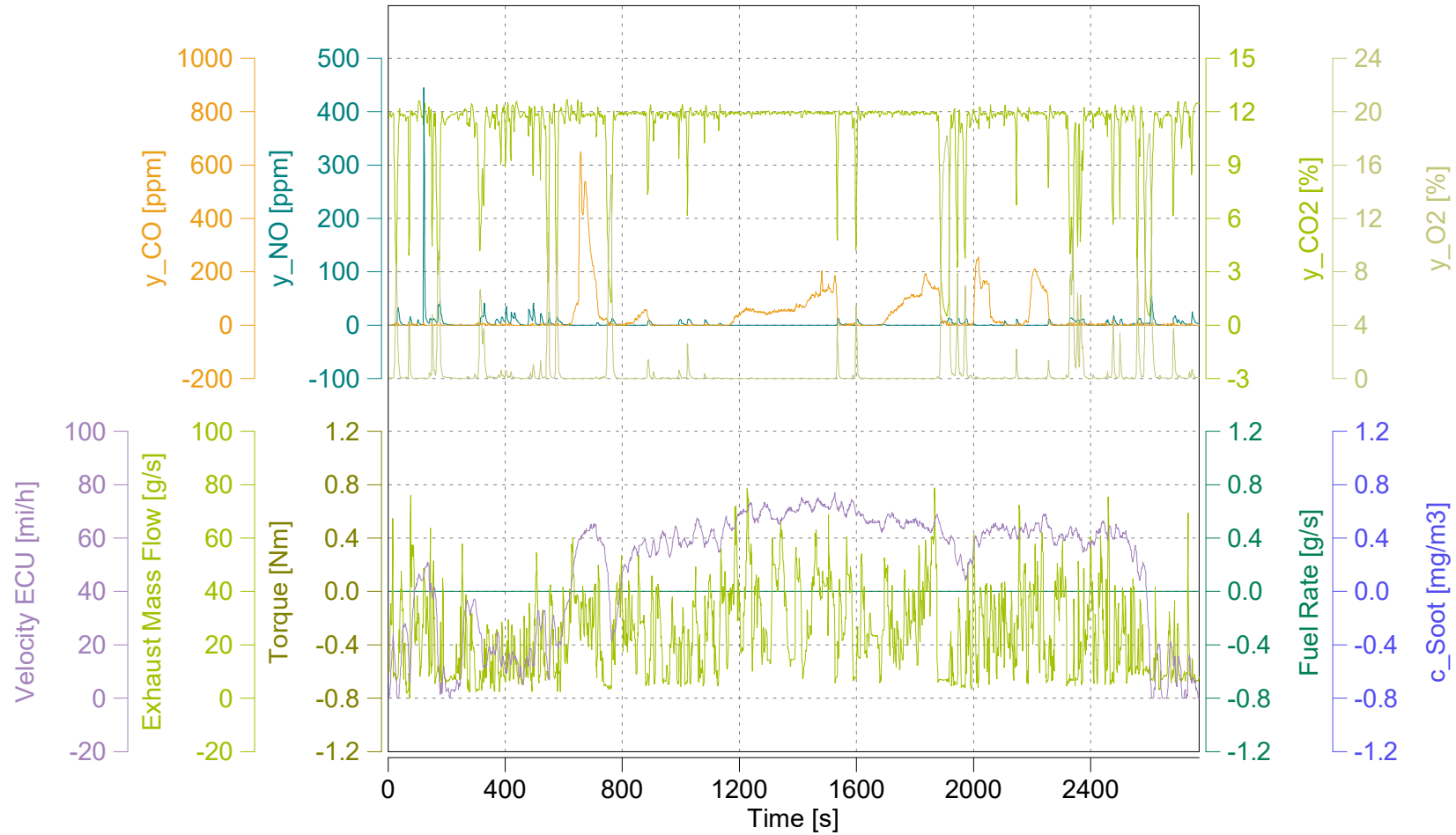
Concerto M.O.V.E., 2019

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

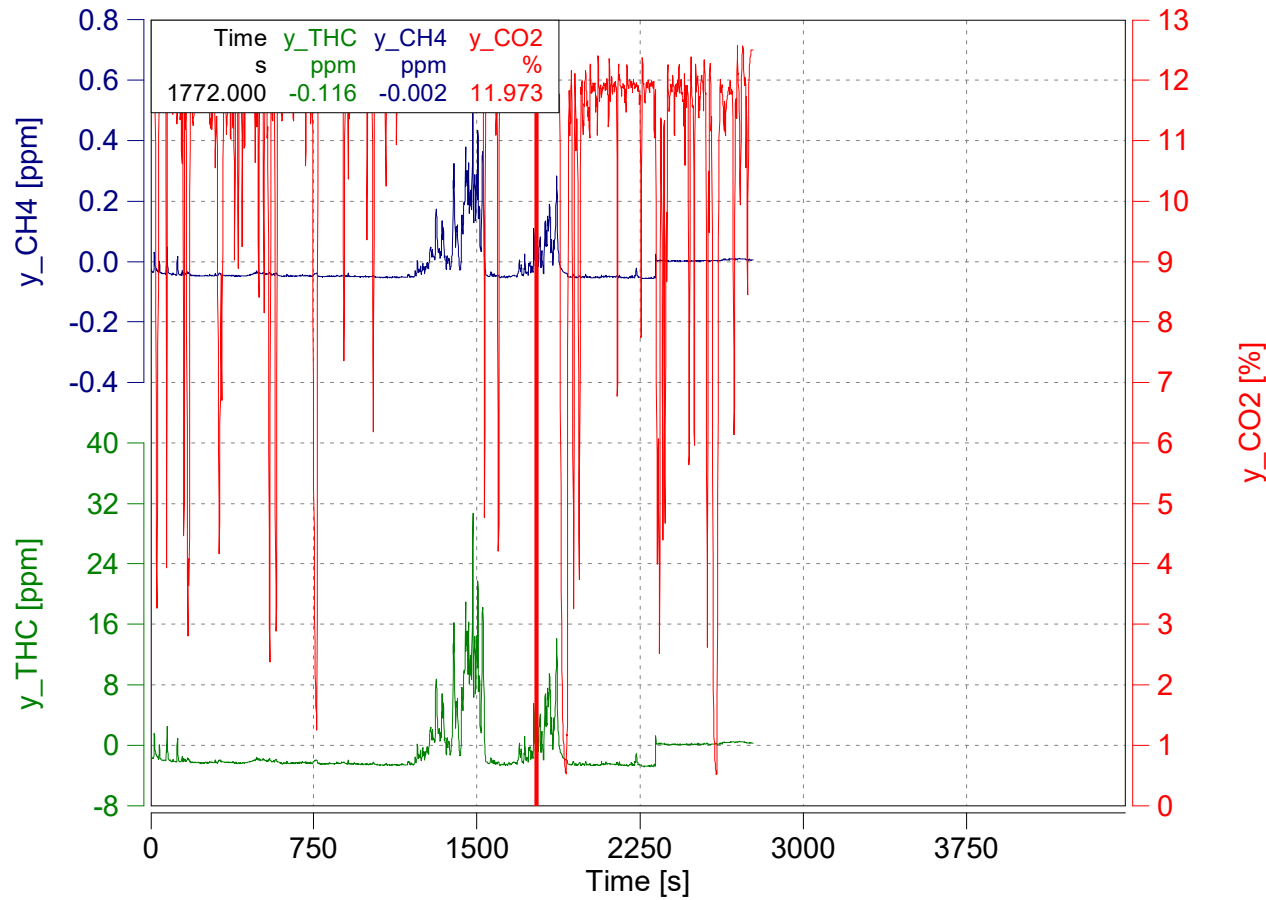
Concerto Version: 480 Build 316, Serial Number: 1120
 M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
 Legislation:

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

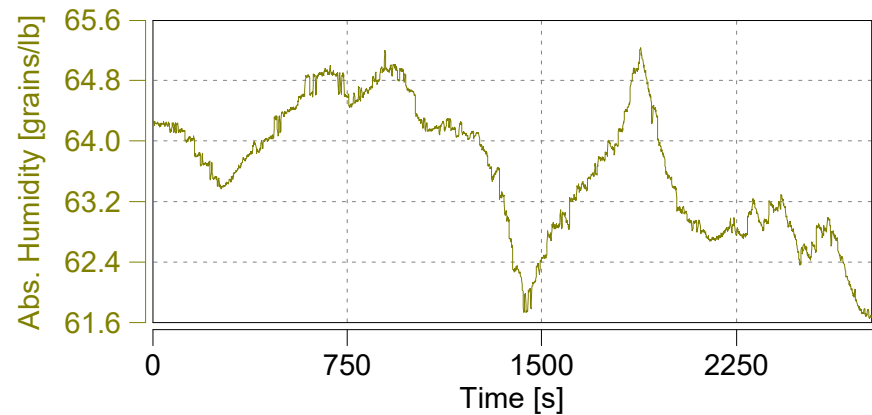
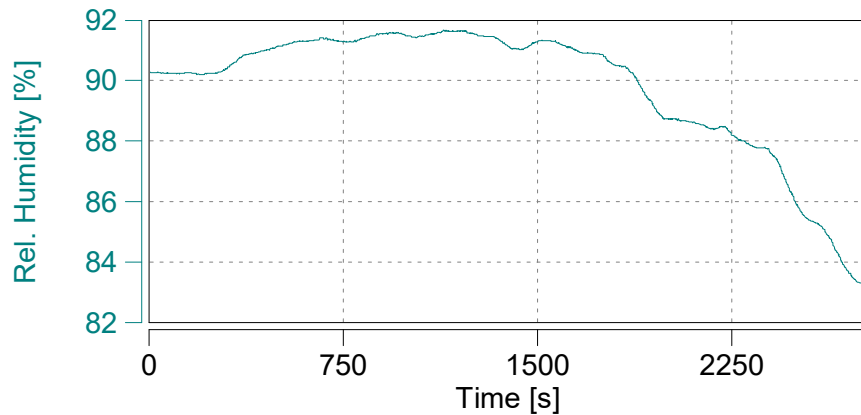
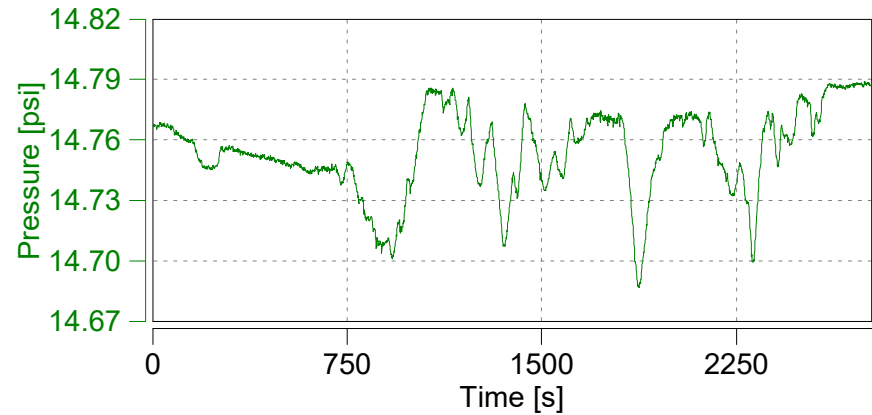
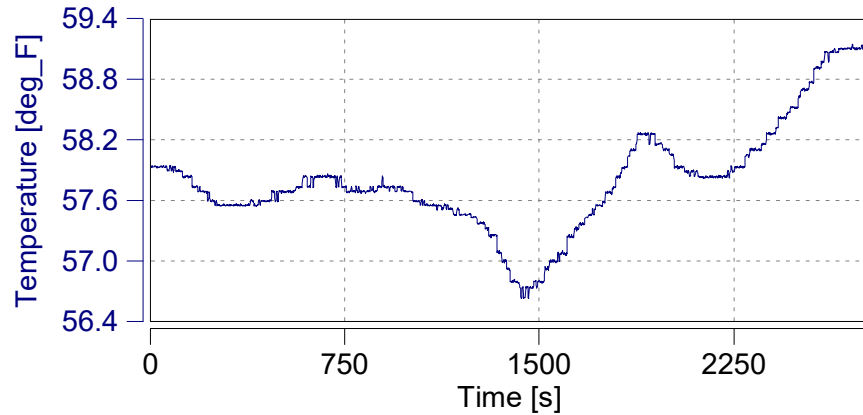
y_THC	s	-4.3
y_CH4	s	-6.3

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



Concerto Version: 480 Build 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

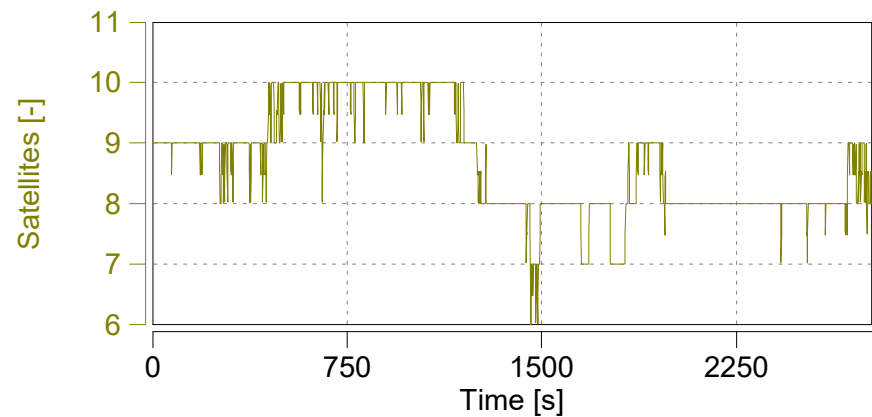
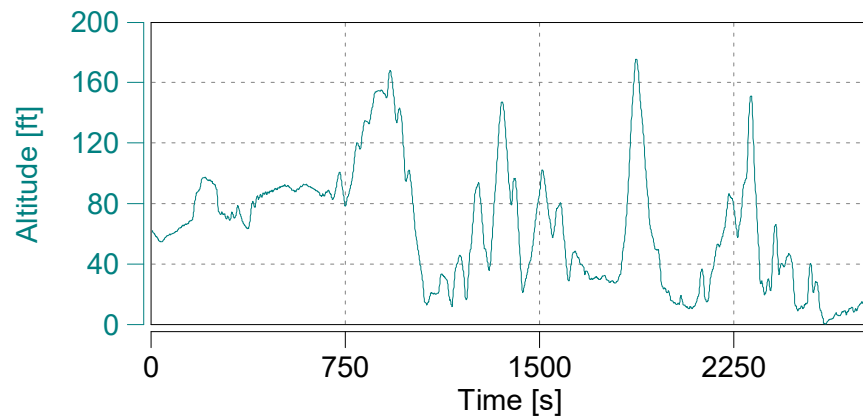
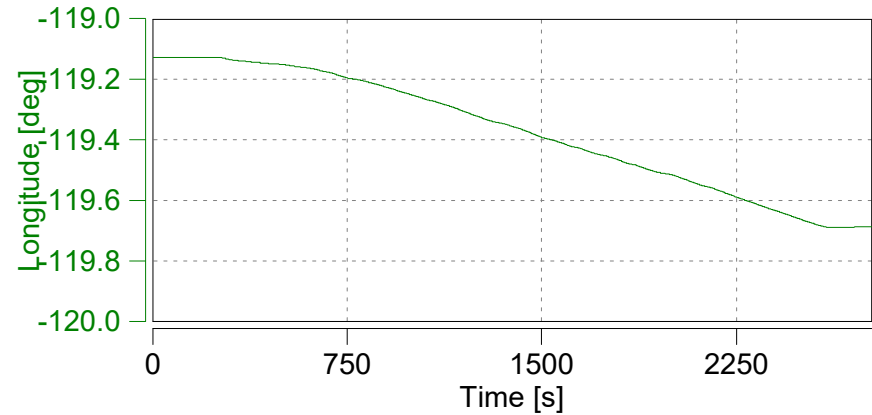
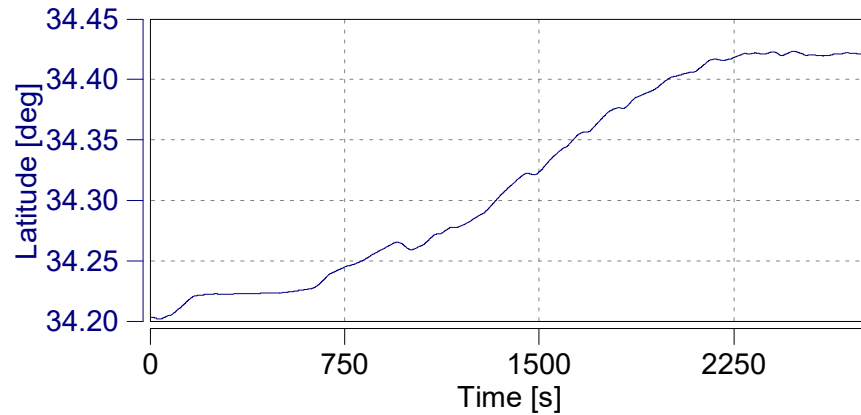
'Highway'

Start Date: 12/06/2019

Start Time: 13:37:54.0

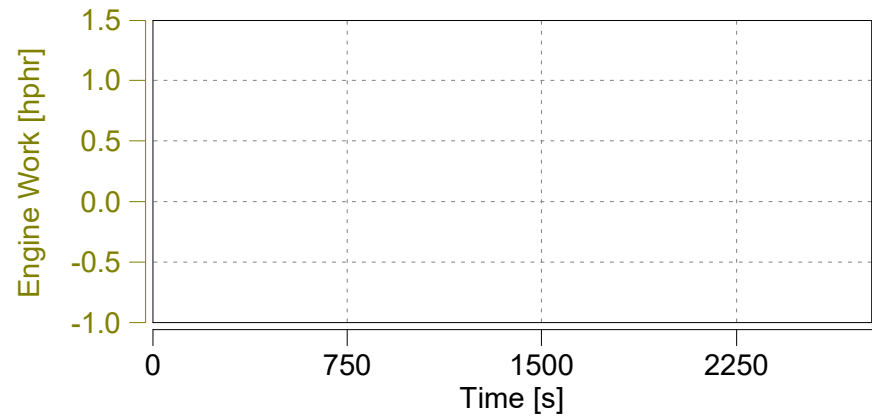
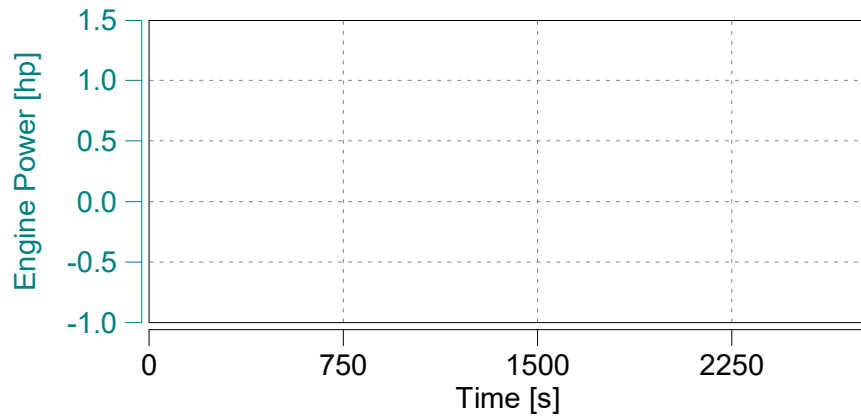
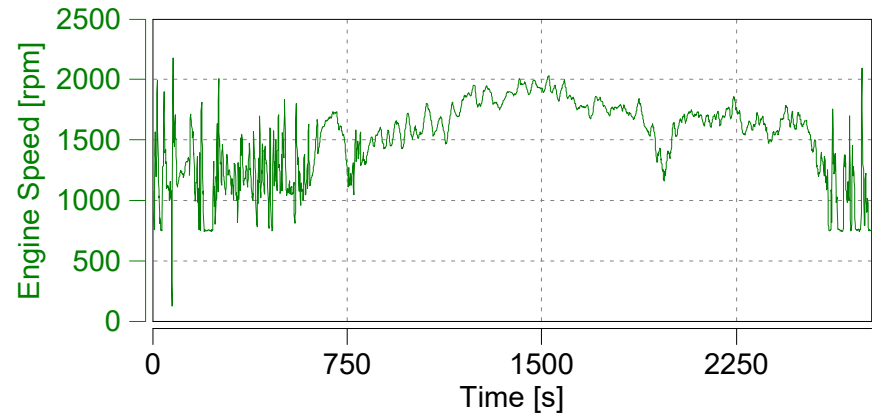
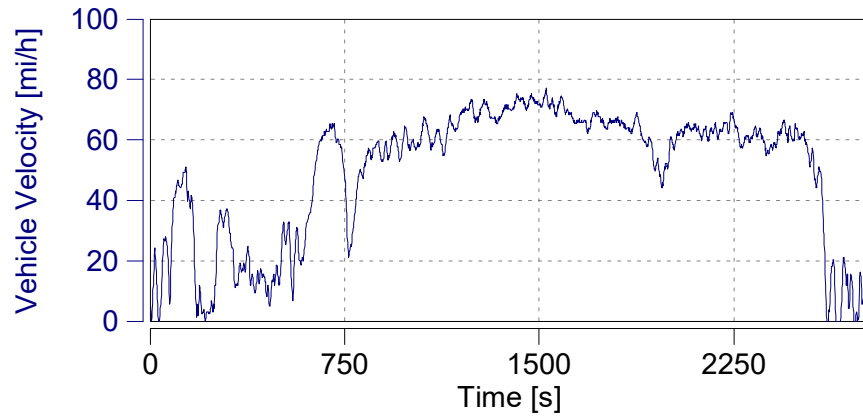


Concerto M.O.V.E., 2019



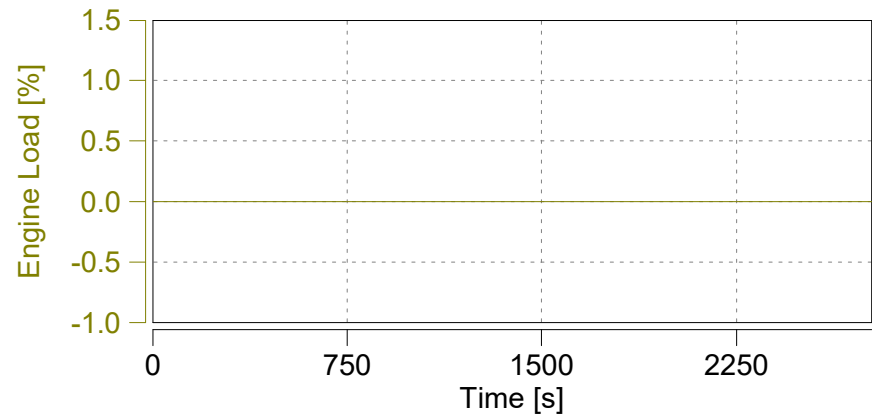
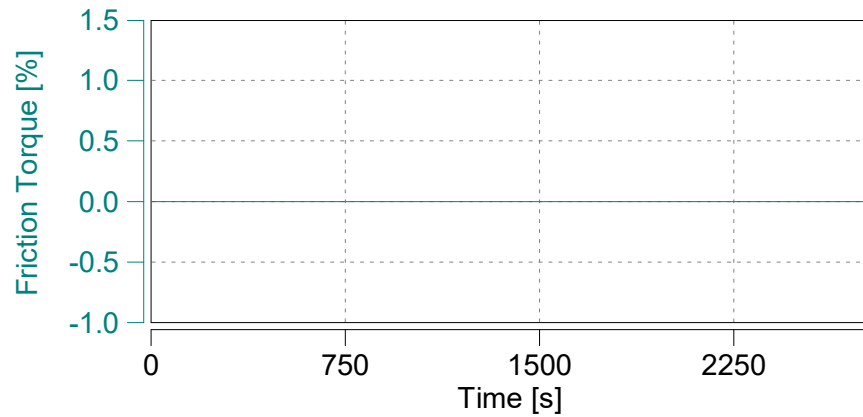
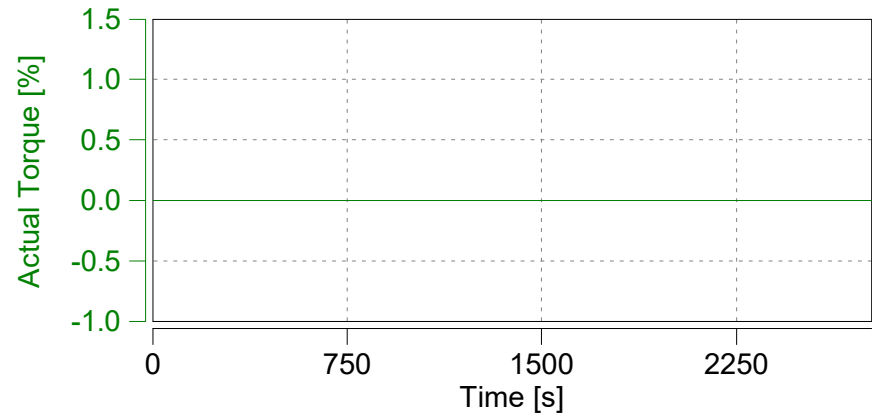
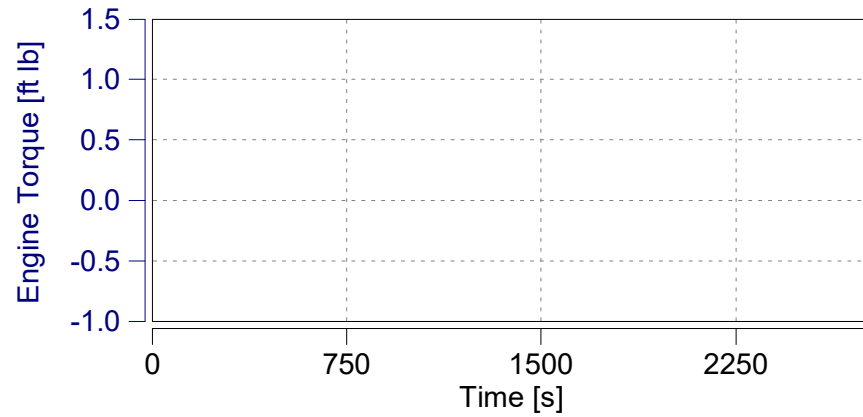
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



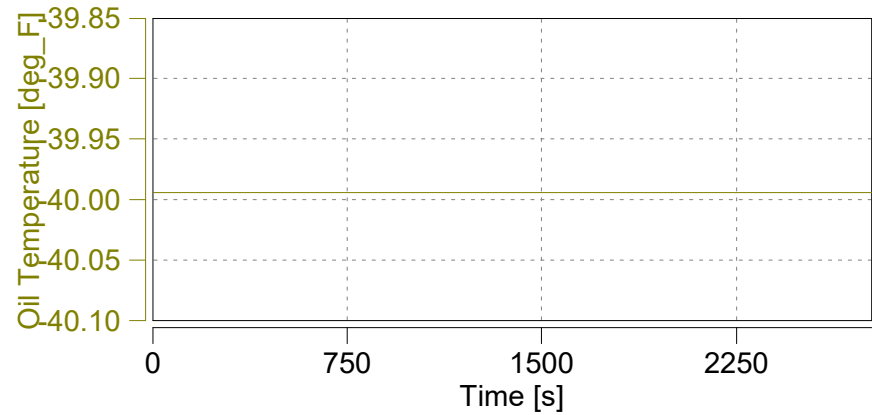
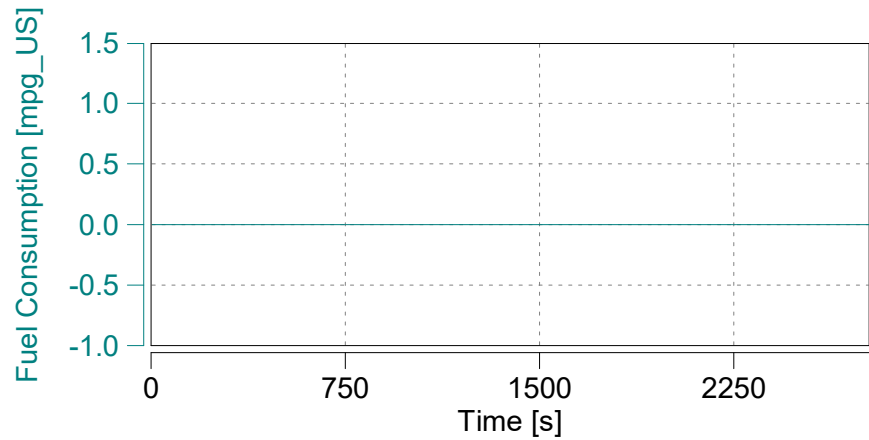
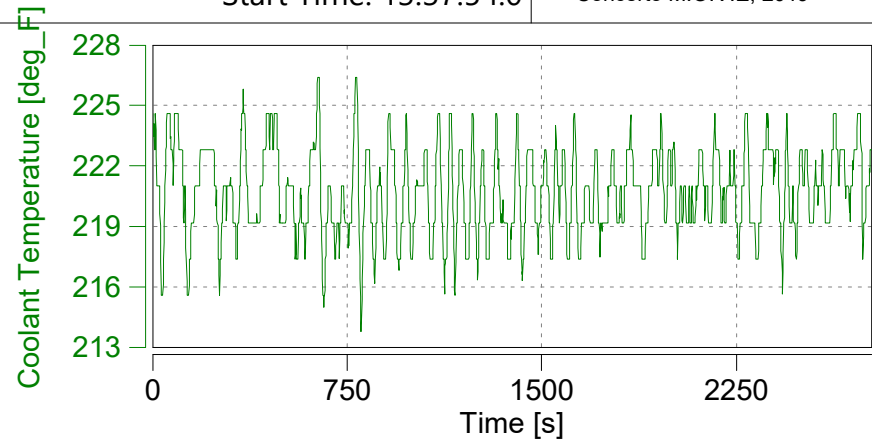
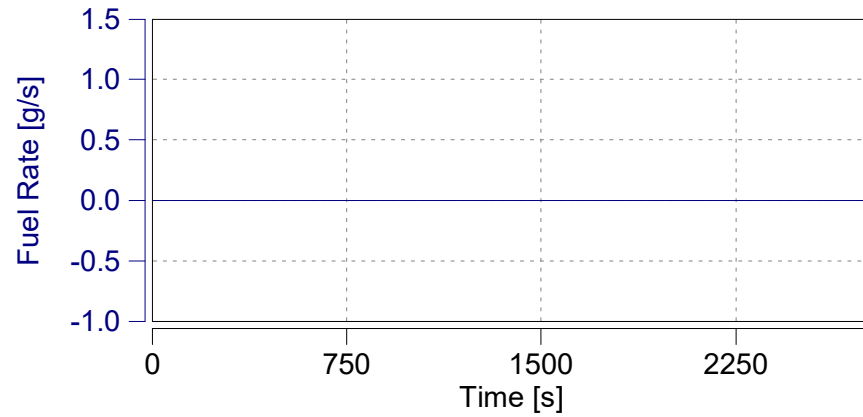
Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironments\MOVE_DT_1R3.1
Legislation:

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
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: Highway

Page: Exhaust Flow (1)

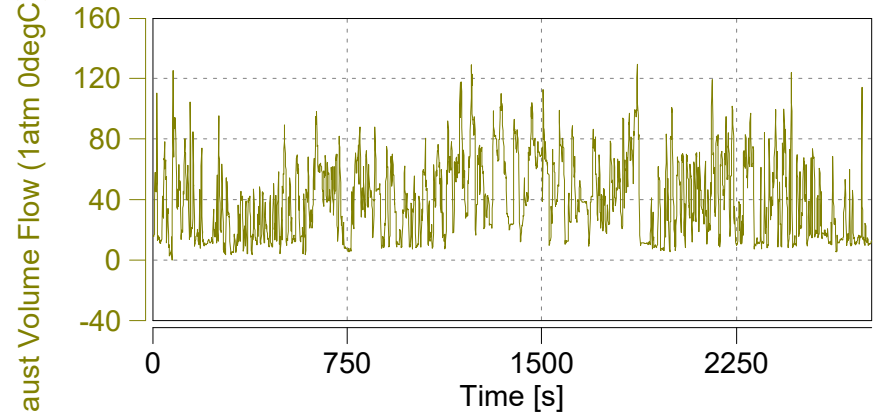
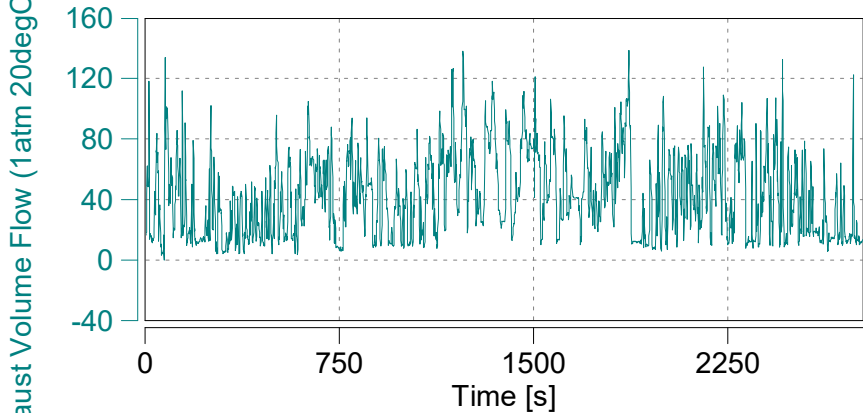
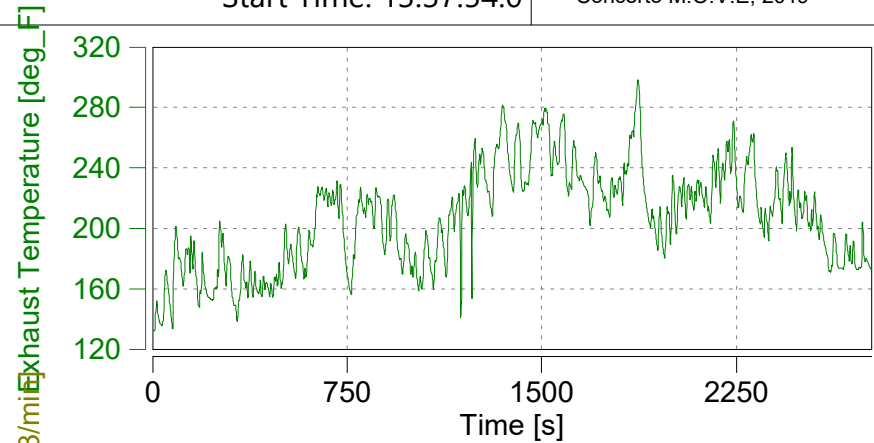
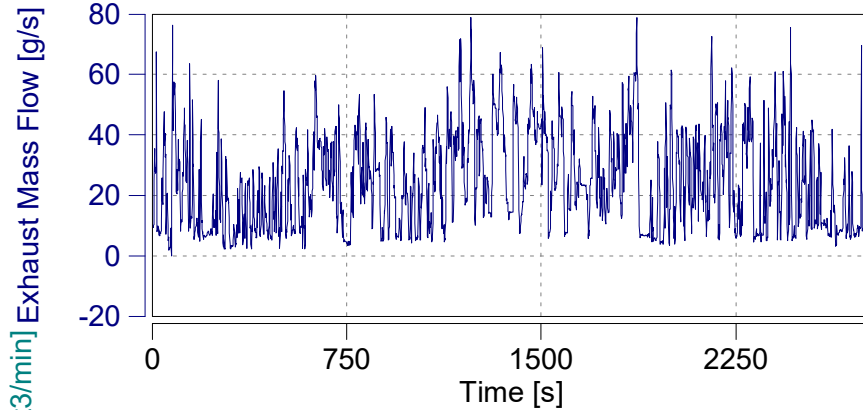
'Highway'

Start Date: 12/06/2019

Start Time: 13:37:54.0

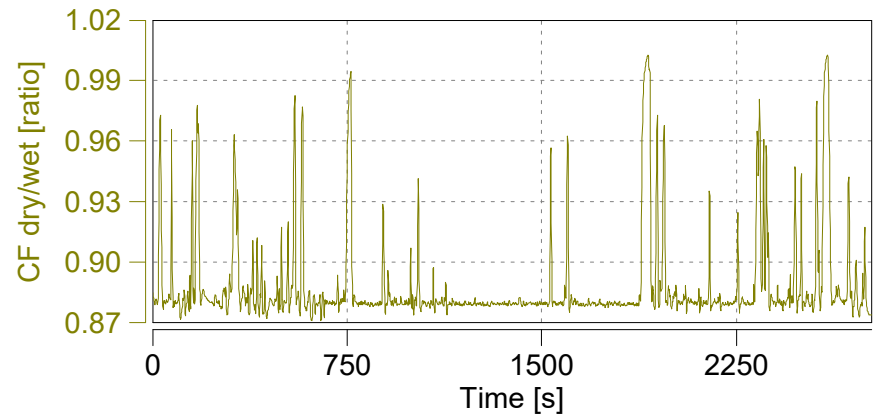
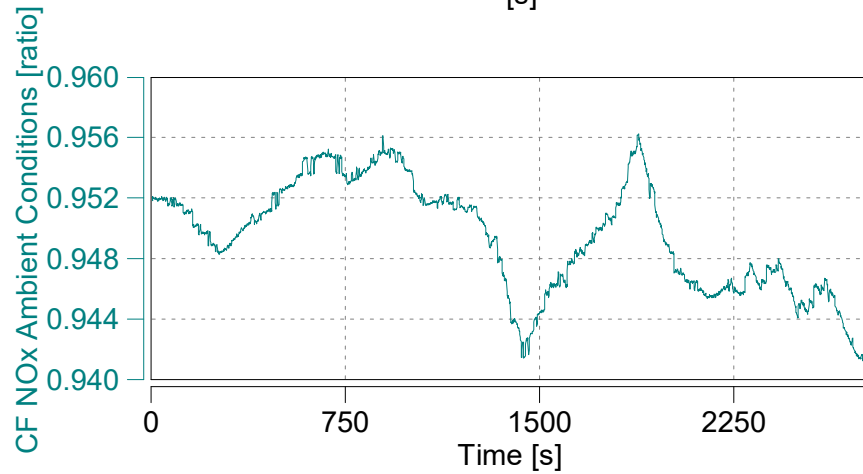
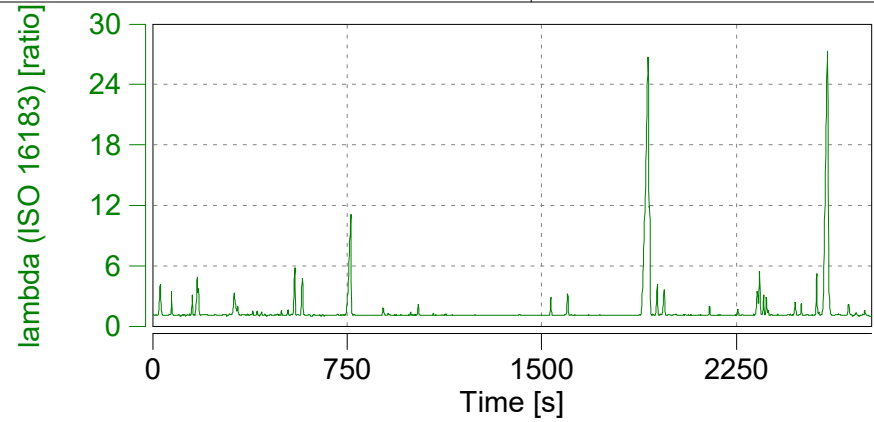
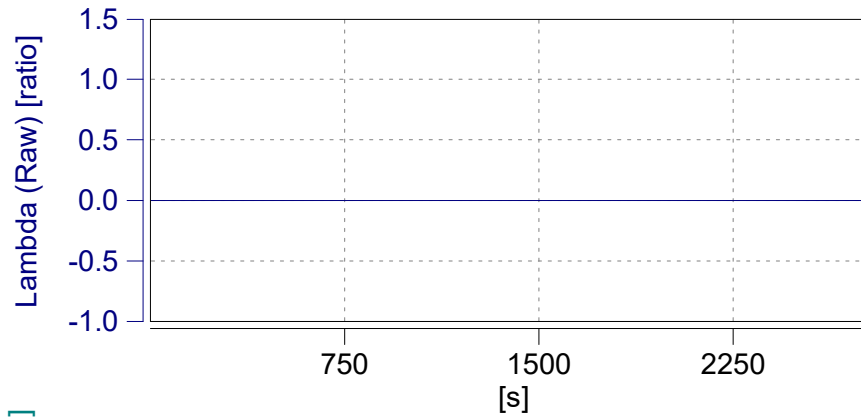


Concerto M.O.V.E., 2019



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



Concerto Version: 480 Build 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)

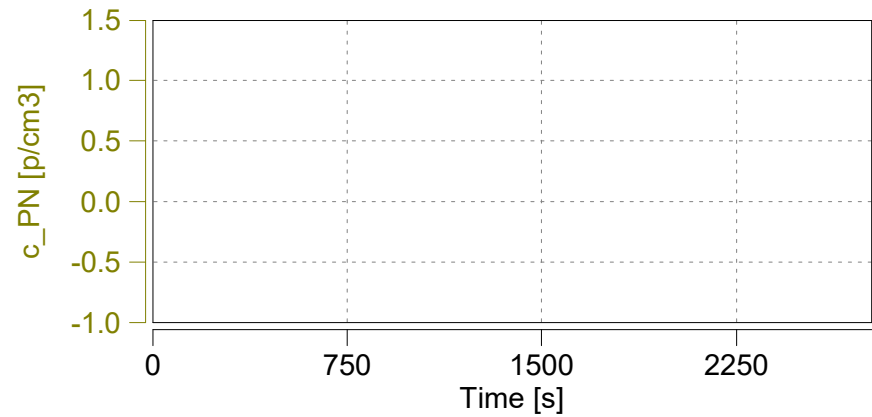
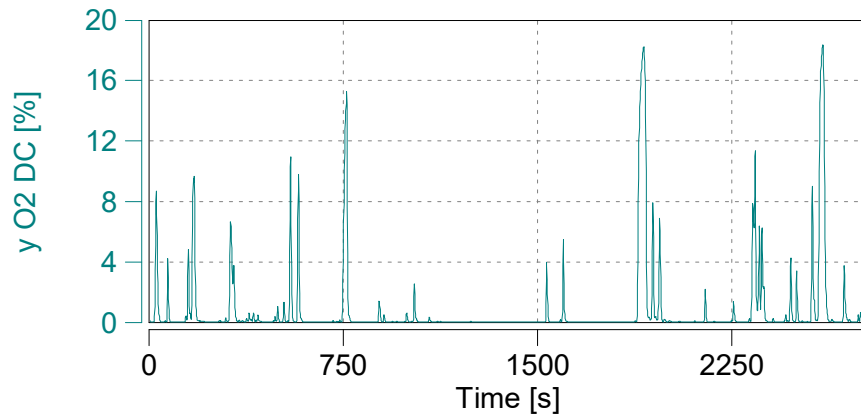
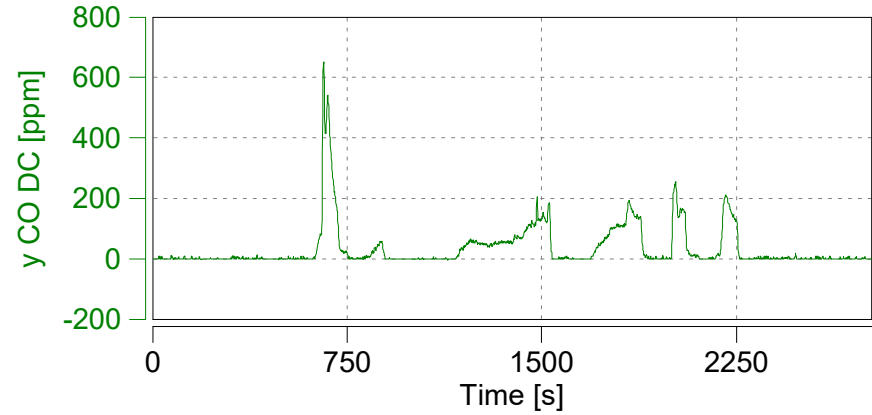
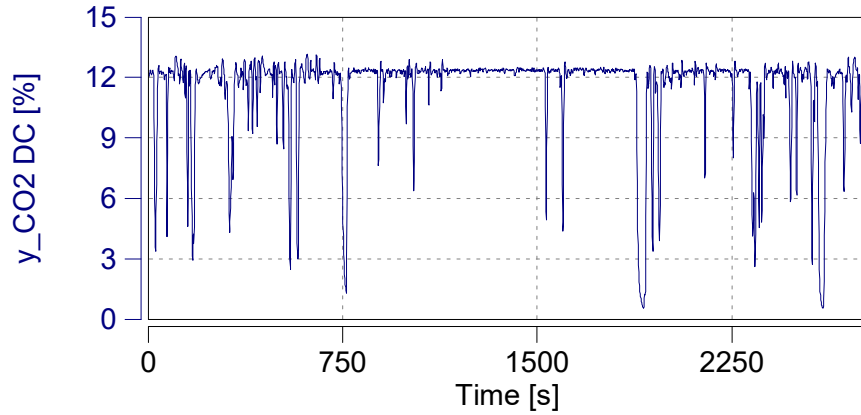
'Highway'

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

Case: Highway

Page: Corrected Emissions (2)

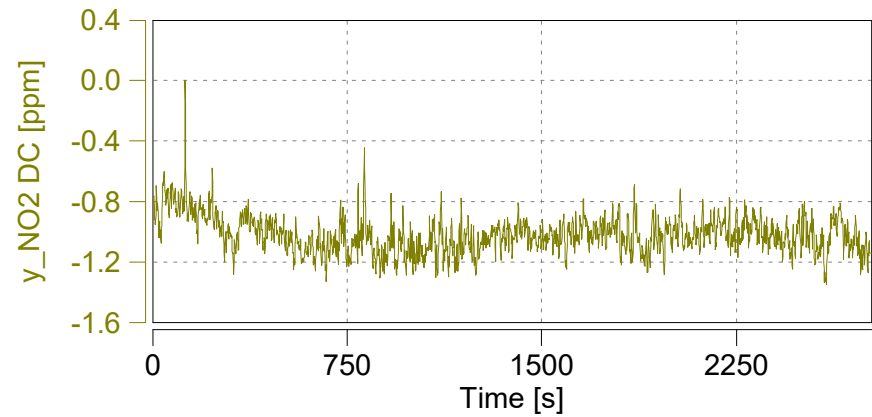
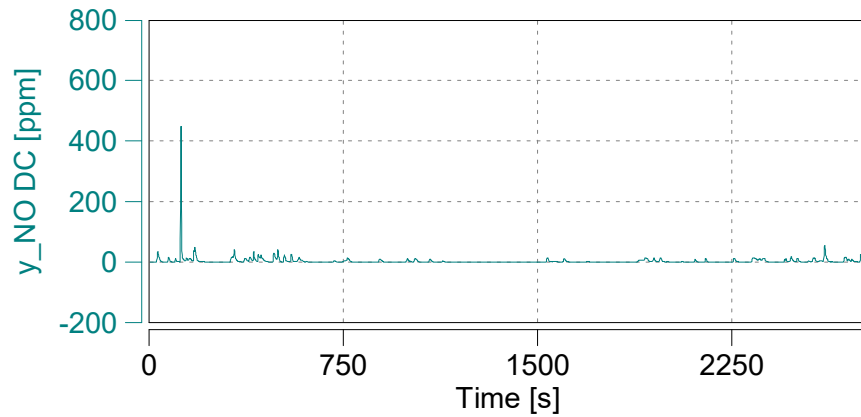
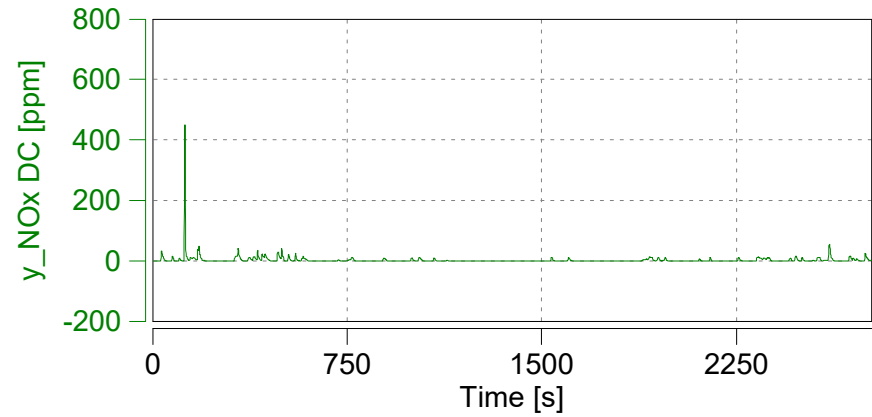
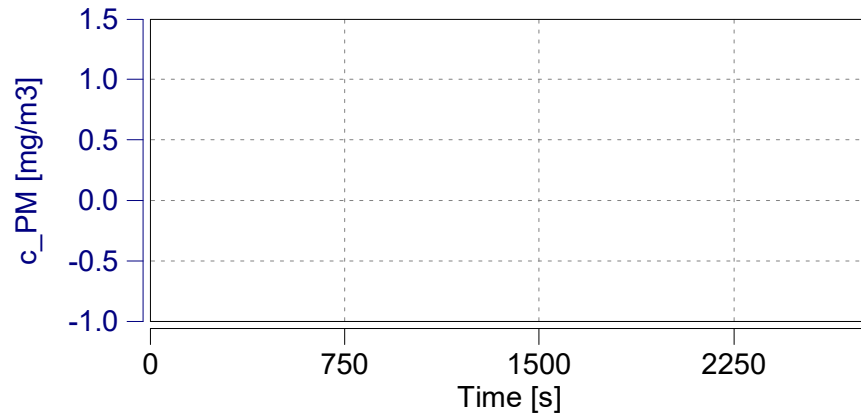
'Highway'

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

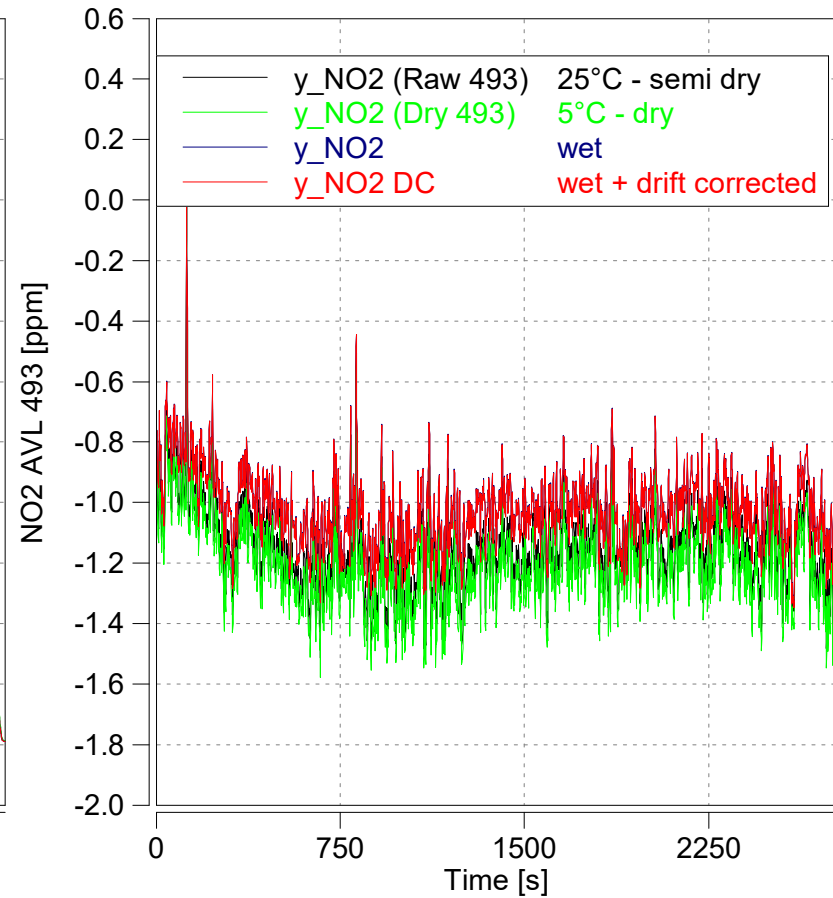
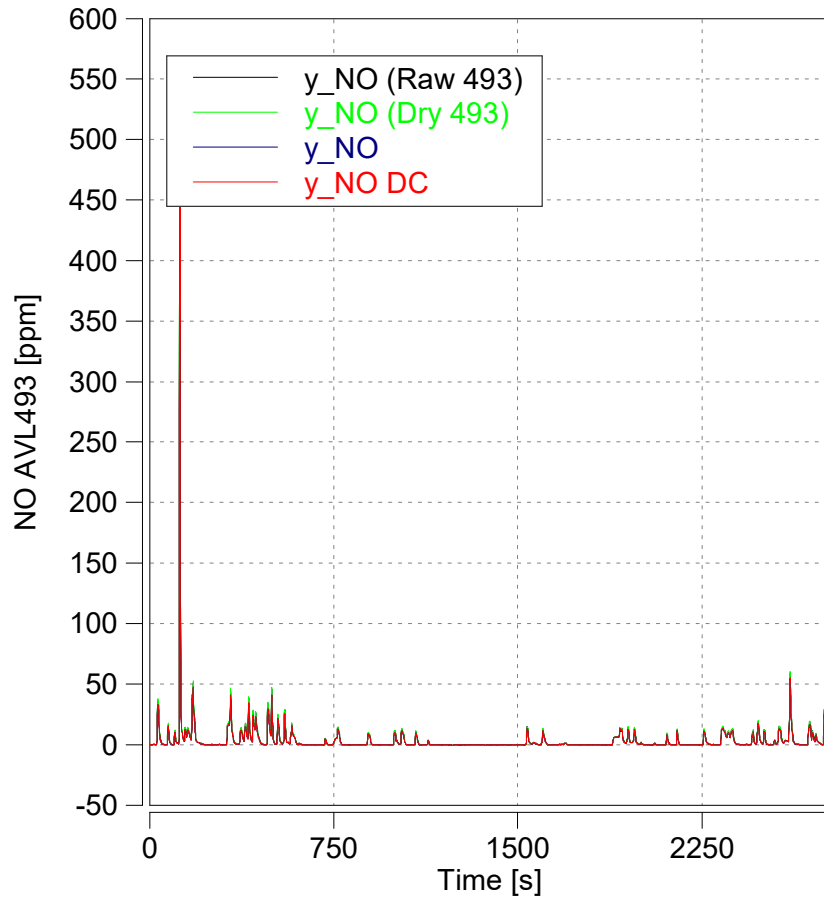
Legislation:

Vehicle: A8 / 4.0 L

Engine: /

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

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

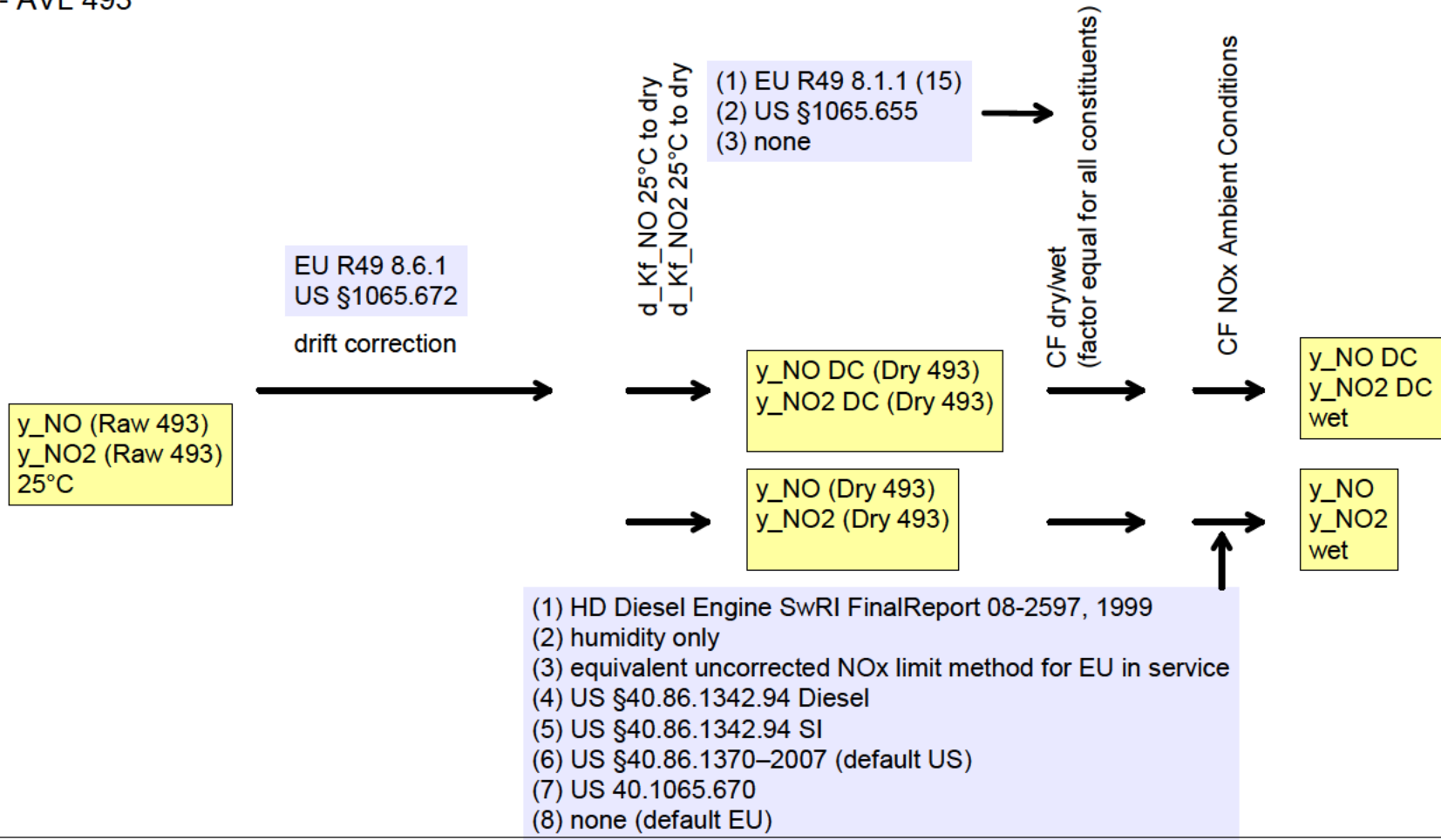


Concerto Version: 480 Build 316, Serial Number: 1120
M.O.V.E Post-Processing: 4R8.4.2_Build 316\CONCERTO_4R8.4.2_Build 316\WorkEnvironnents\MOVE_DT_1R3.1
Legislation:

Vehicle: A8 / 4.0 L
Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



NOx - AVL 493



Case: Highway

Page: Corrected Emissions (5)

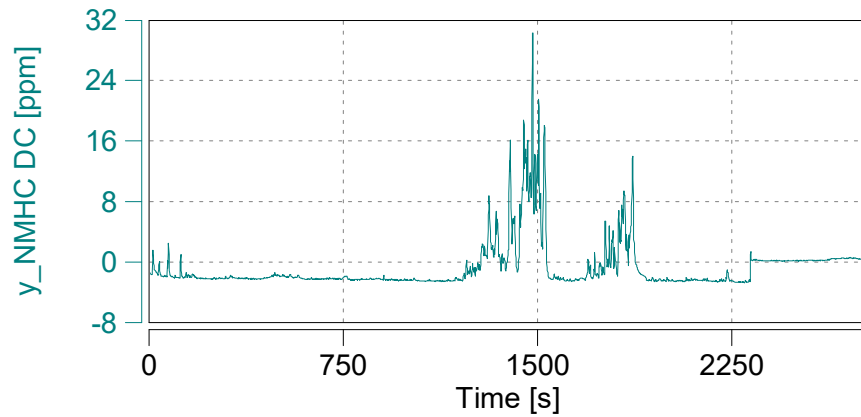
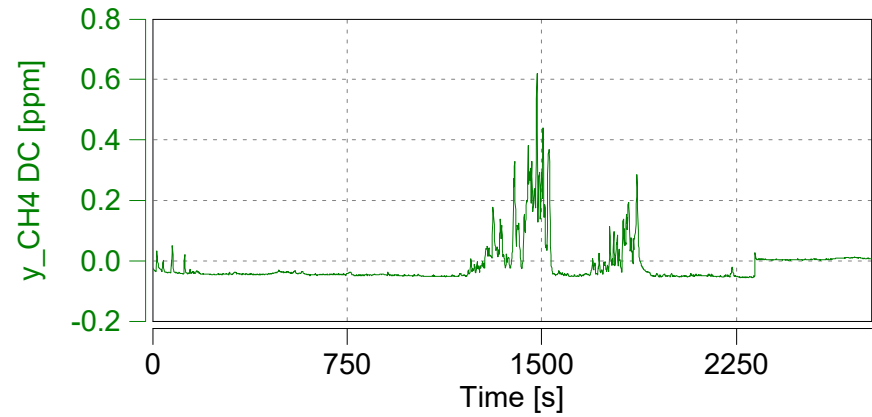
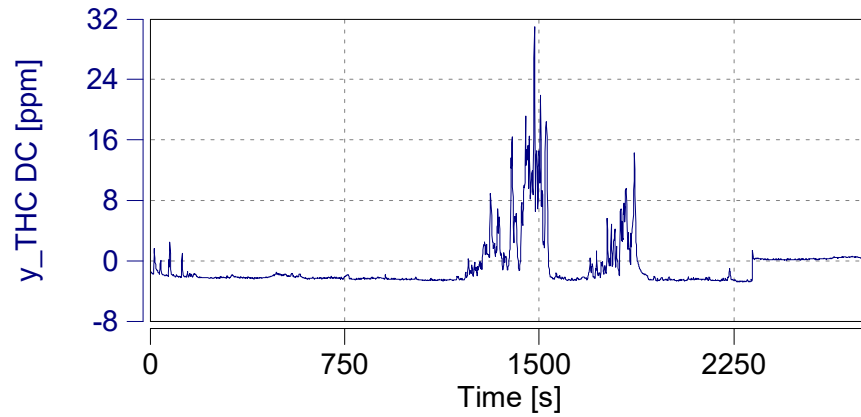
'Highway'

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

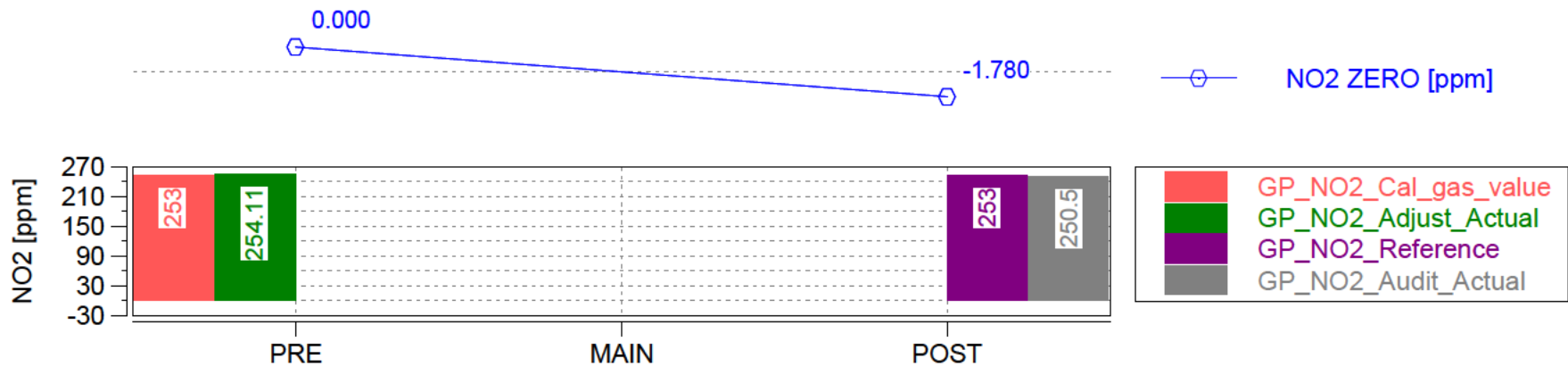
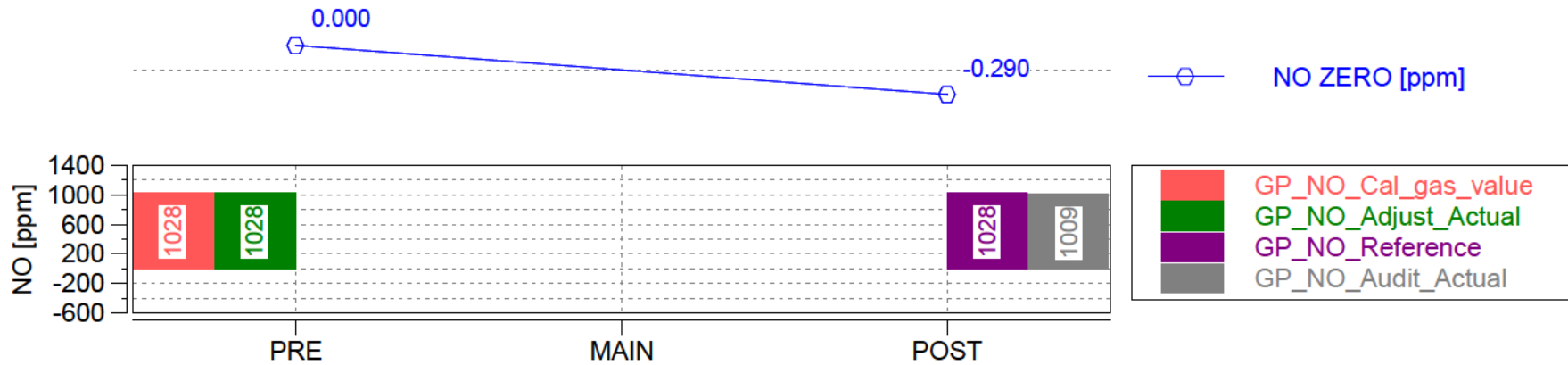
Legislation:

Vehicle: A8 / 4.0 L

Engine: /

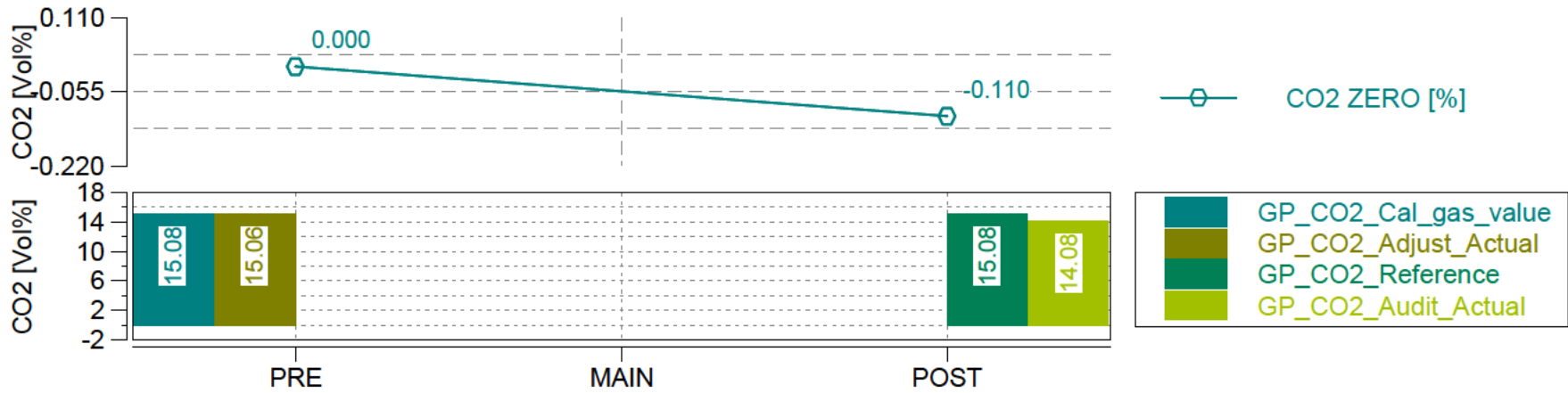
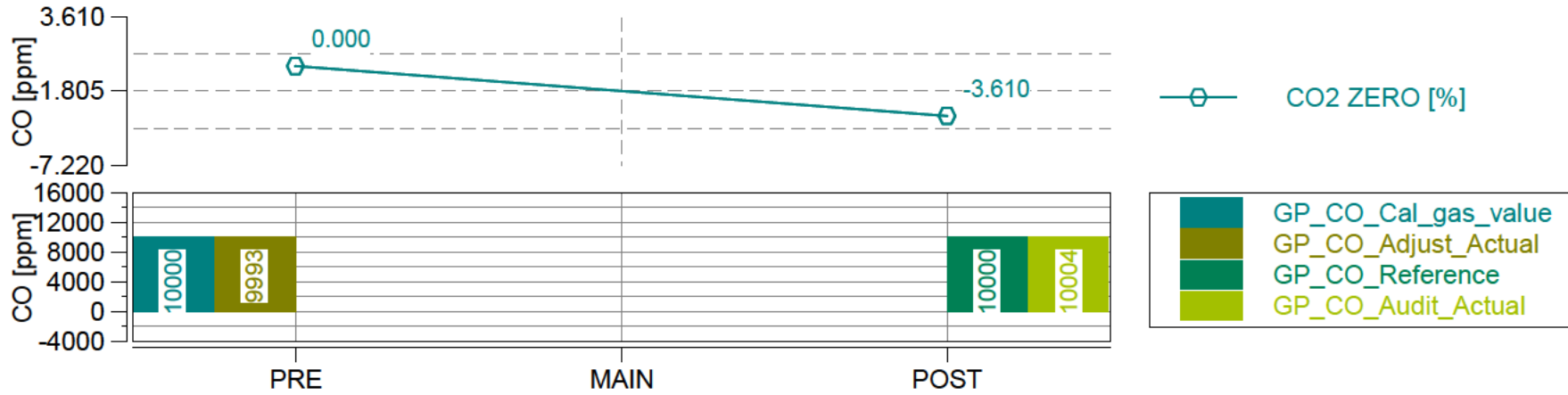
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI

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



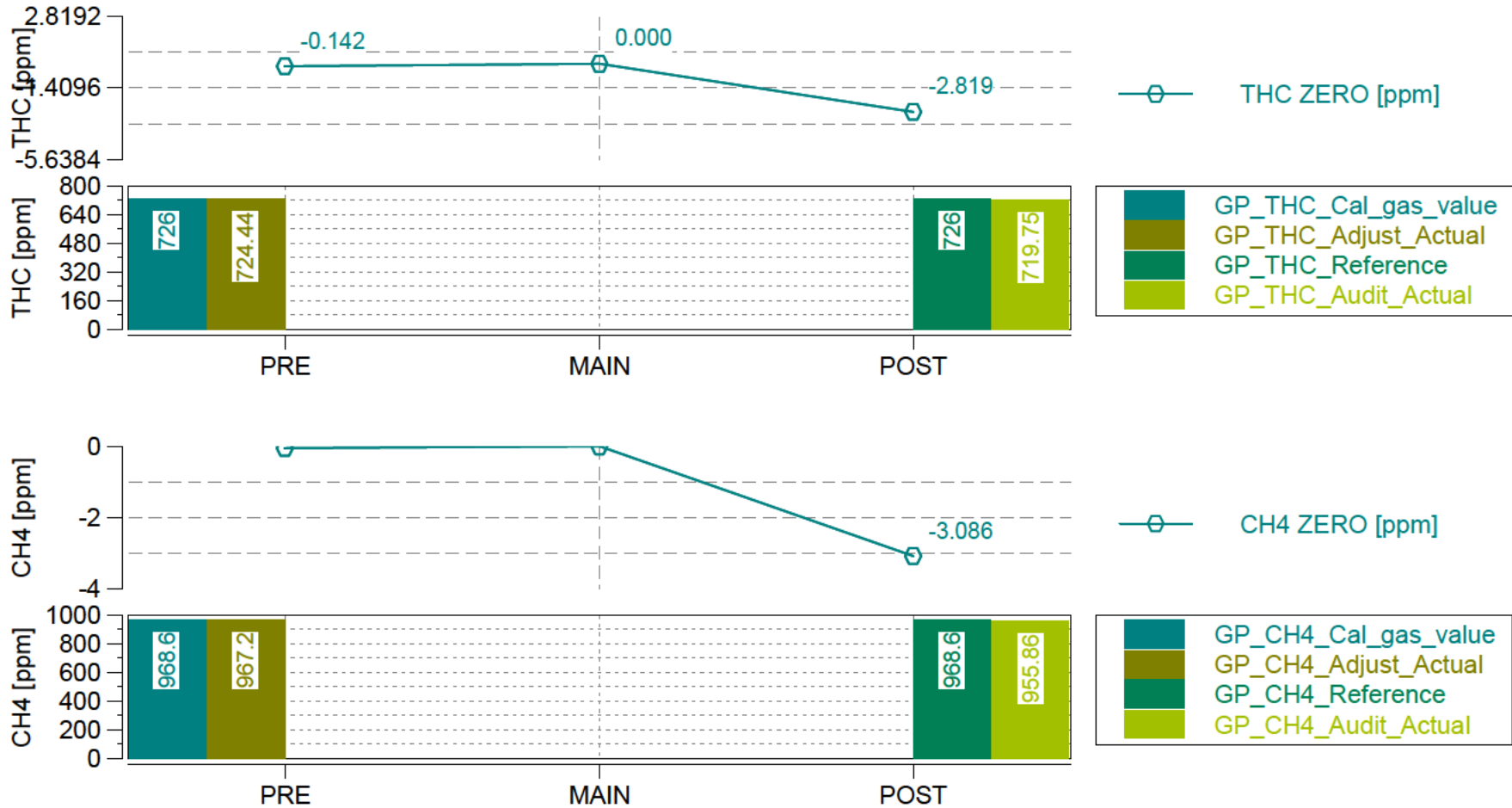
Concerto Version: 480 Build 316, Serial Number: 1120
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 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
 Dry / Wet Corr.: 2 - CFR40 §86.1342-90



Concerto Version: 480 Build 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

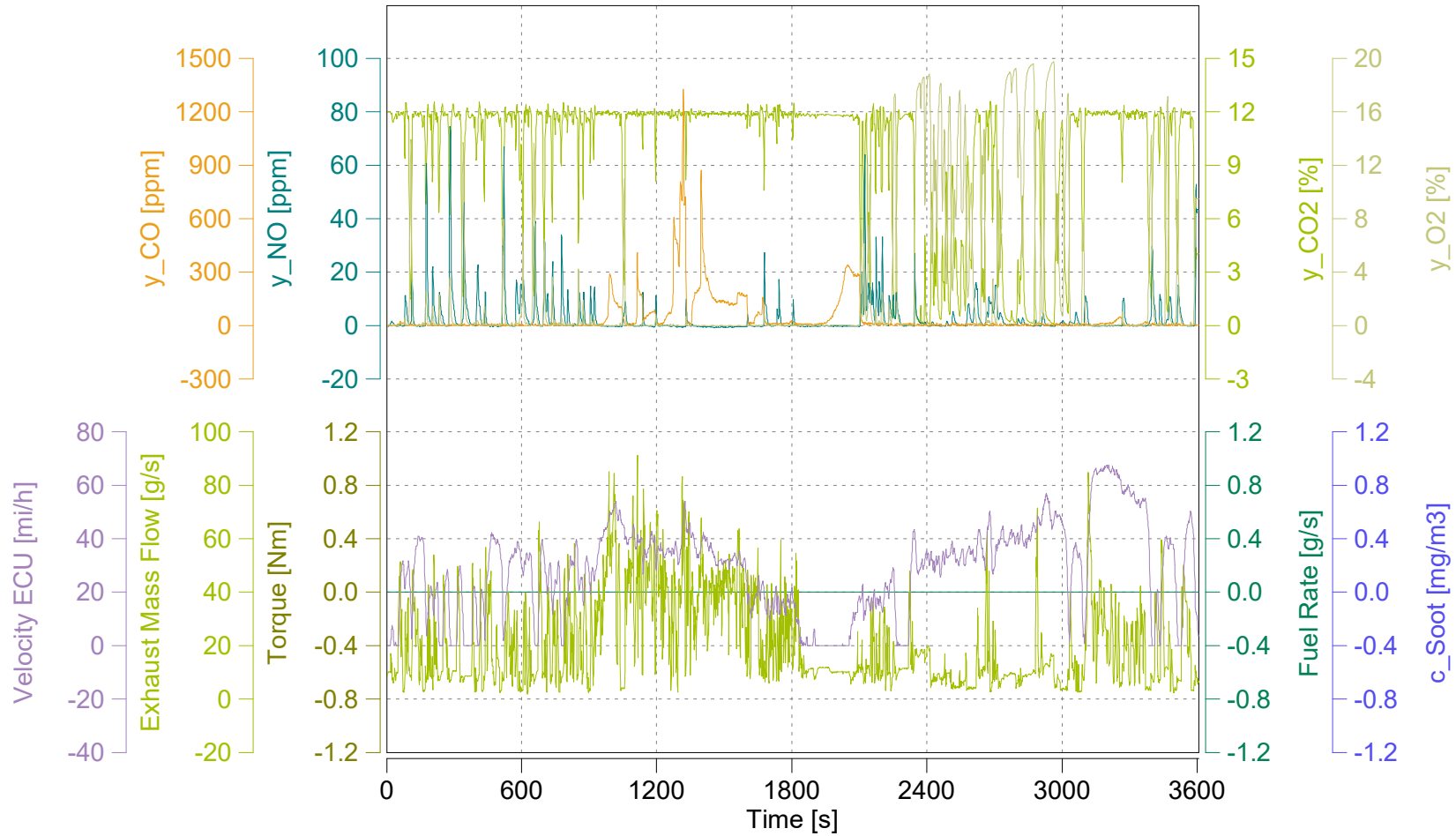


Trip Duration	3608.00	s	ave THC DC	-1.35155	ppm	BS CO2 DC	n/a	g/hphr
Trip Duration (a)	3608.00	s	ave NMHC DC	-1.32452	ppm	BS CO DC	n/a	g/hphr
Trip Distance	28.42	mi	ave CH4 DC	-0.02703	ppm	BS THC DC	n/a	g/hphr
Trip Distance (a)	28.42	mi	ave CO DC	41.54309	ppm	BS NMHC DC	n/a	g/hphr
			ave CO2 DC	10.09228	%	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

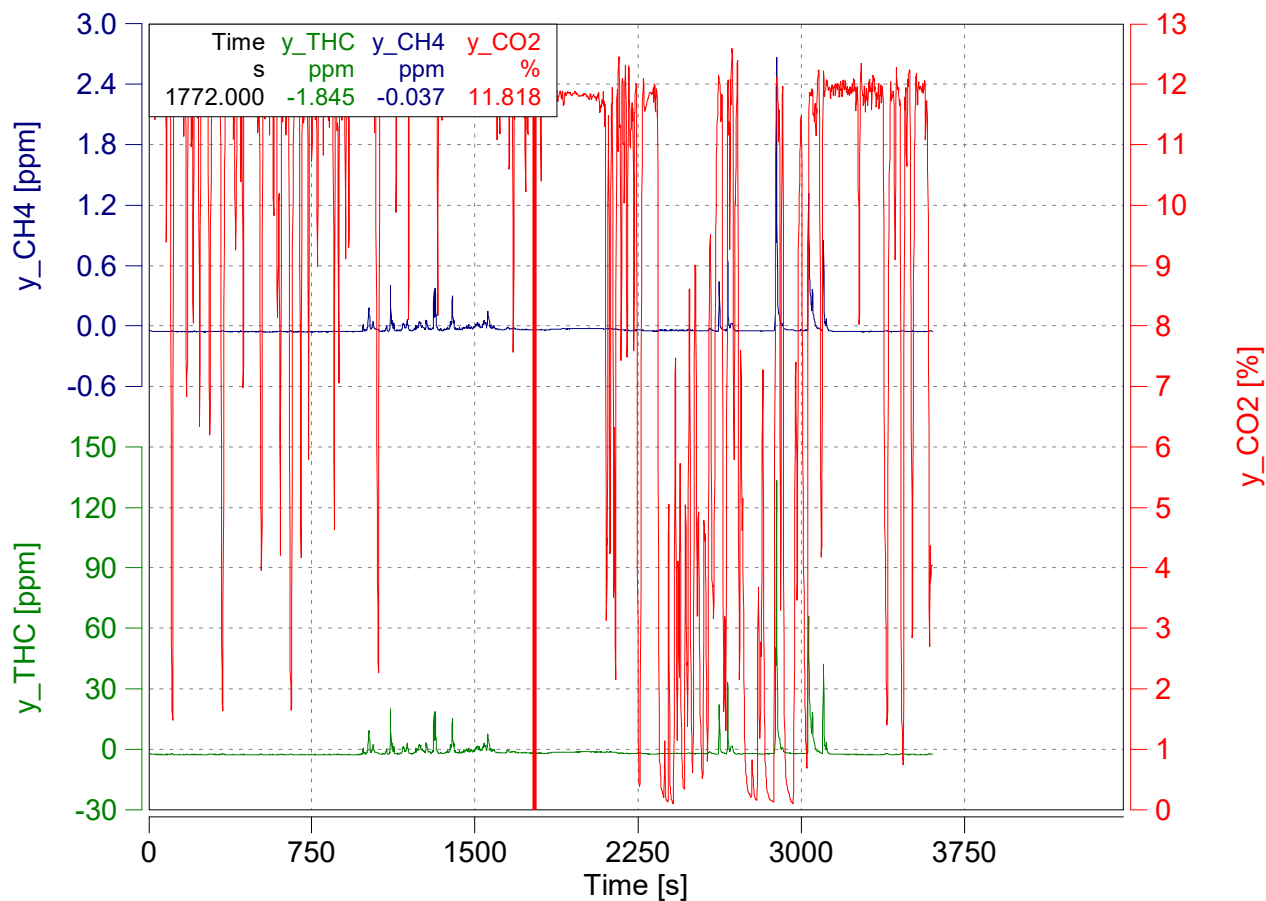
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 Legislation:

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



Absolute Time Shifts

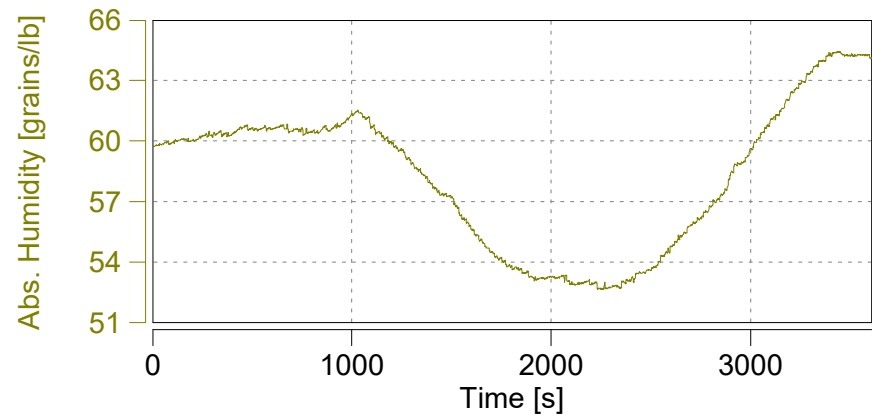
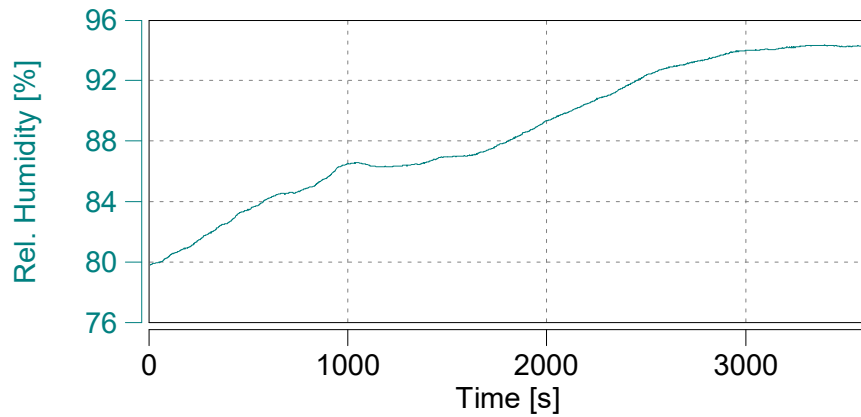
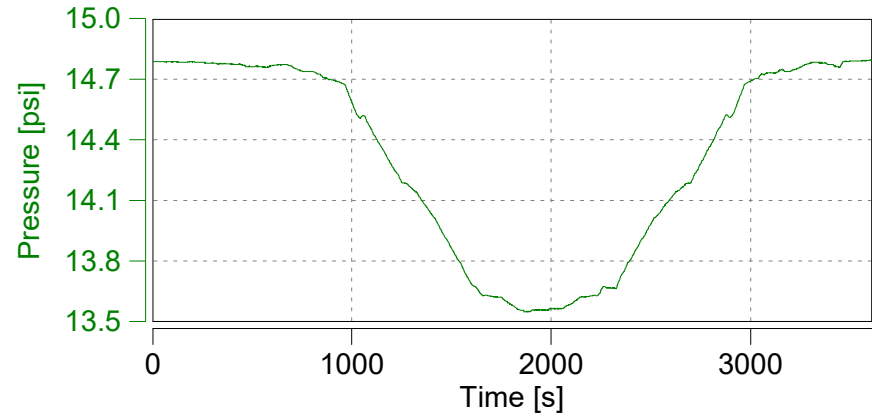
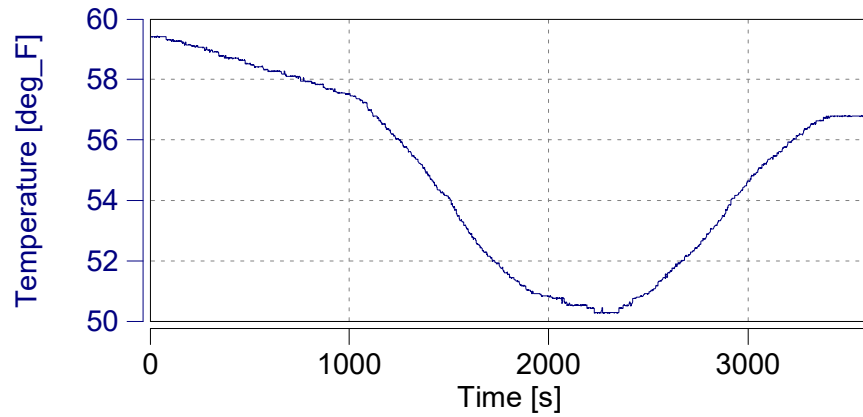
y_THC	s	-4.3
y_CH4	s	-6.3

Reset Time Shifts in Plot

Apply Current Values

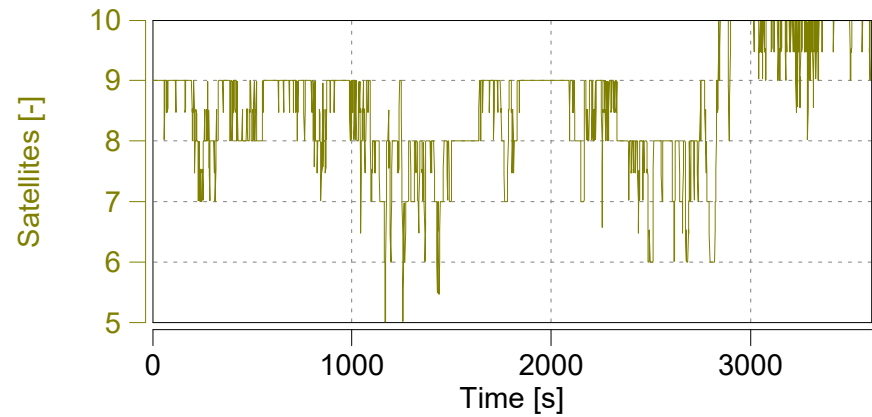
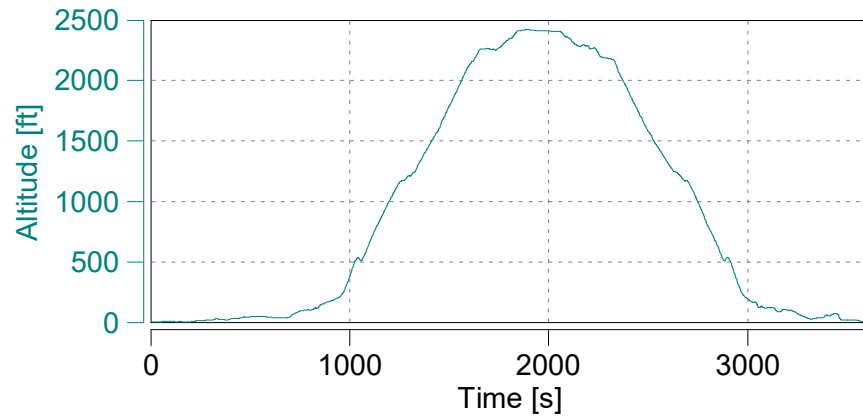
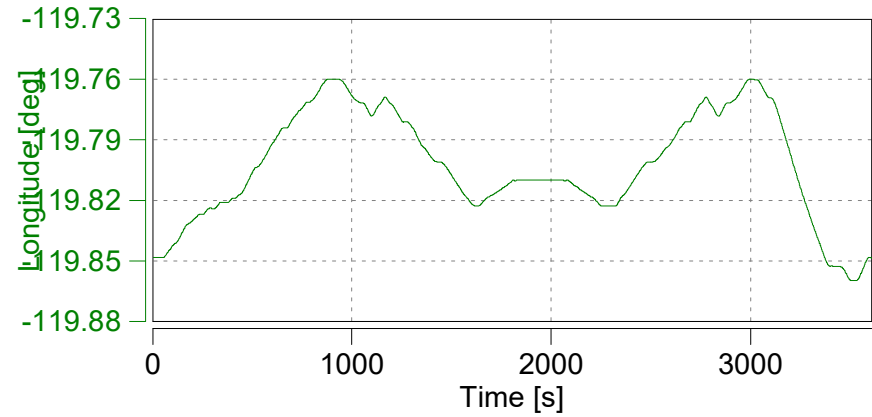
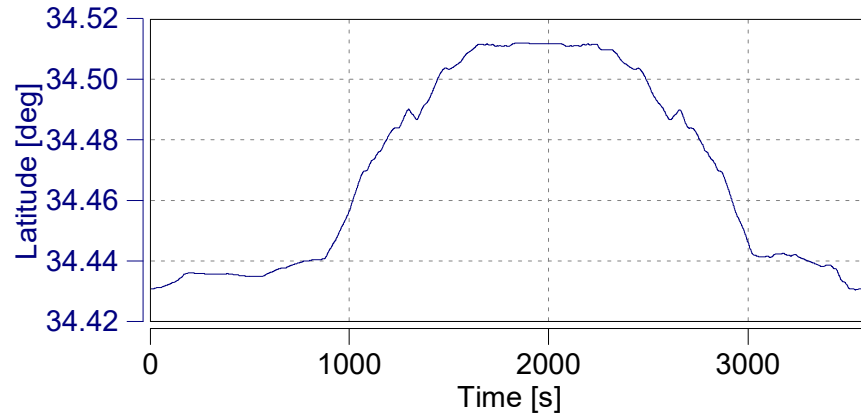
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 Legislation:

Vehicle: A8 / 4.0 L
 Engine: /
 NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
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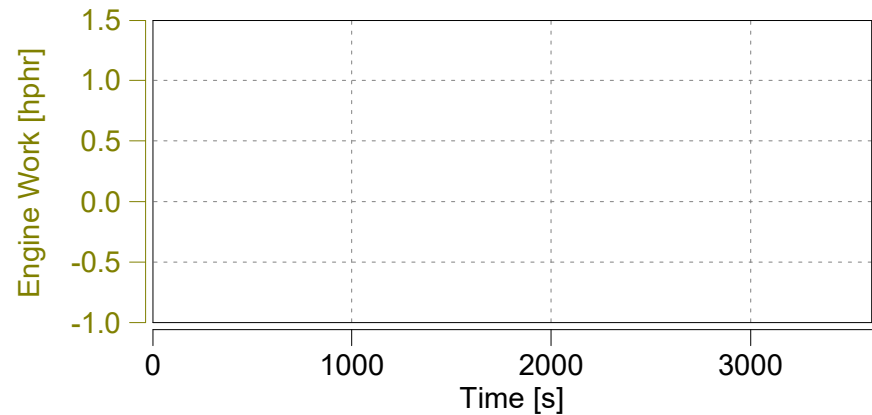
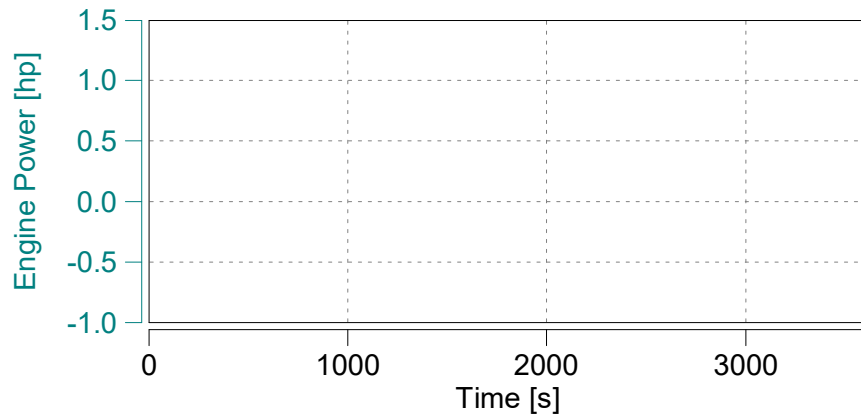
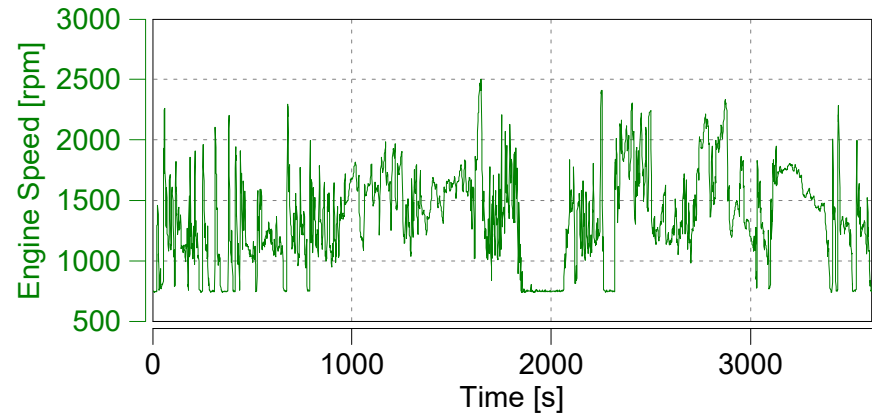
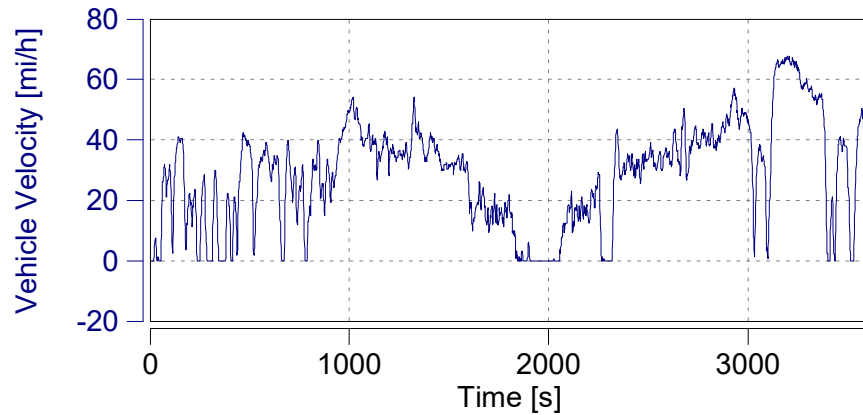
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Engine: /
NOx Ambient Condition Corr.: 5 - CFR40 §86.1342-94 SI
Dry / Wet Corr.: 2 - CFR40 §86.1342-90



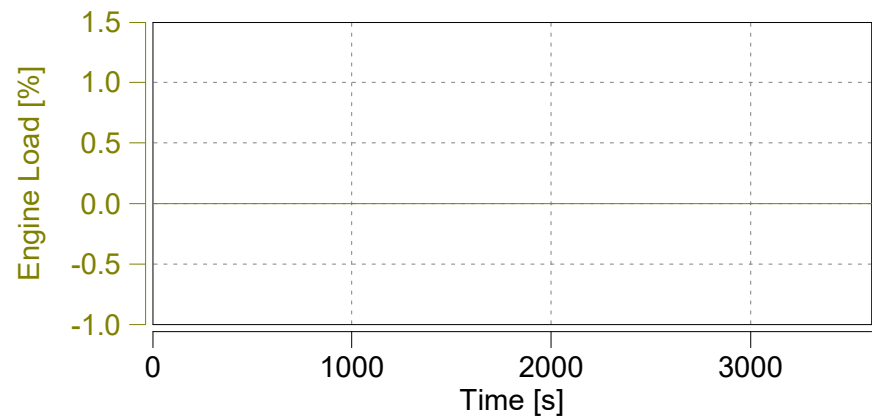
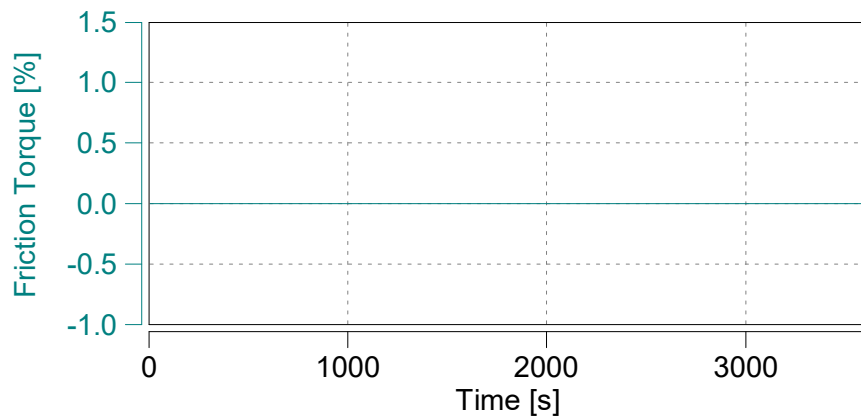
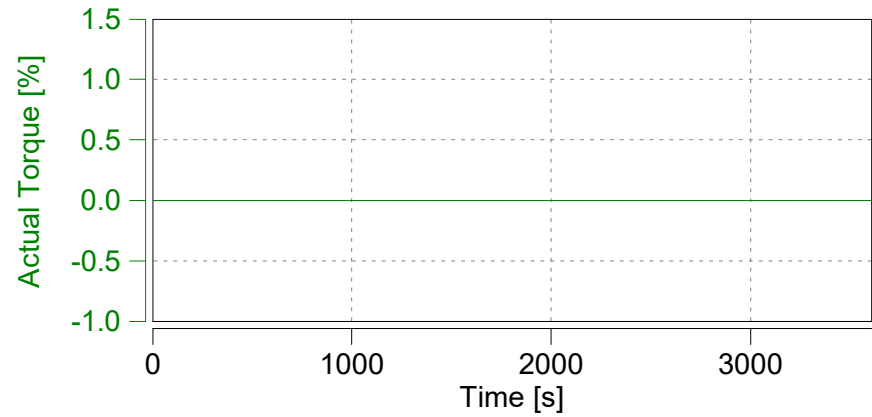
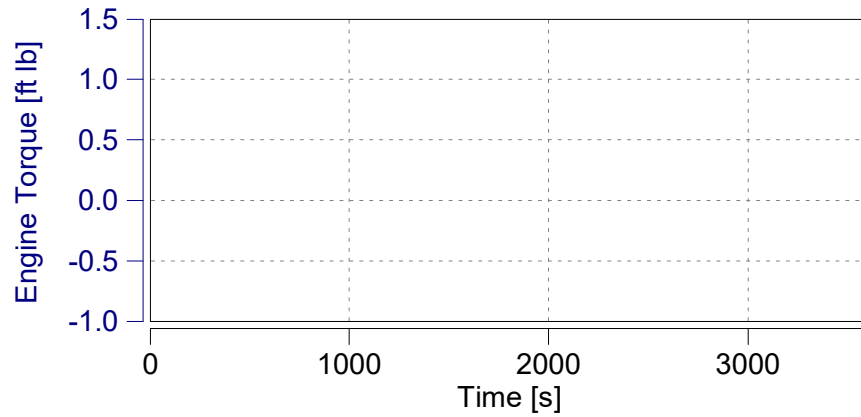
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Engine: /
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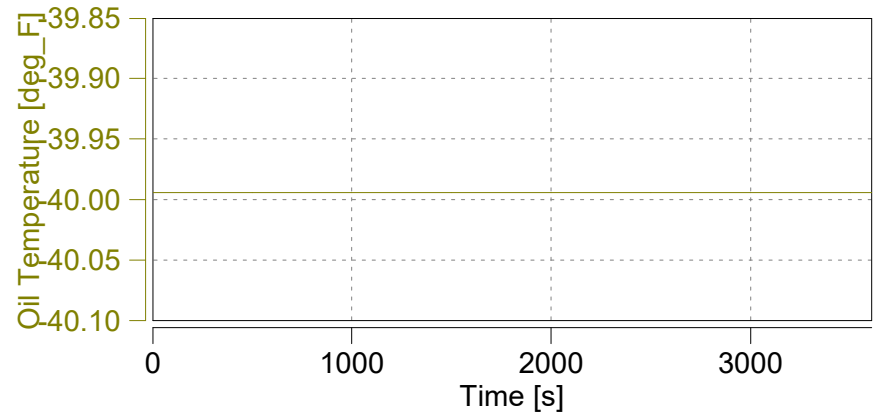
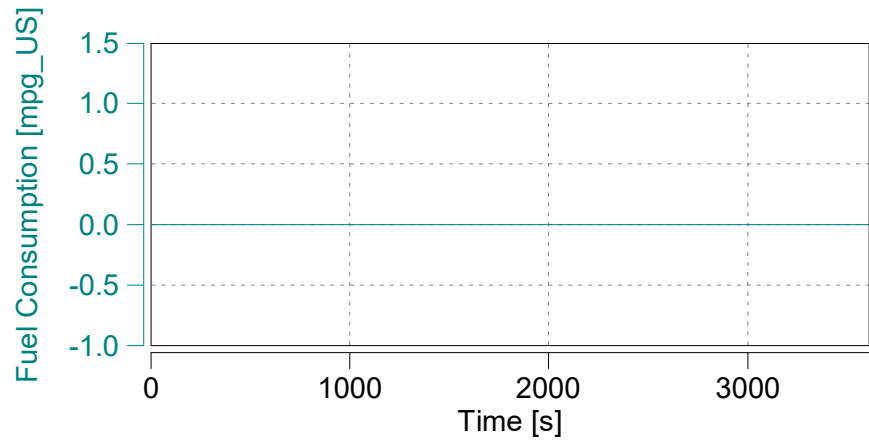
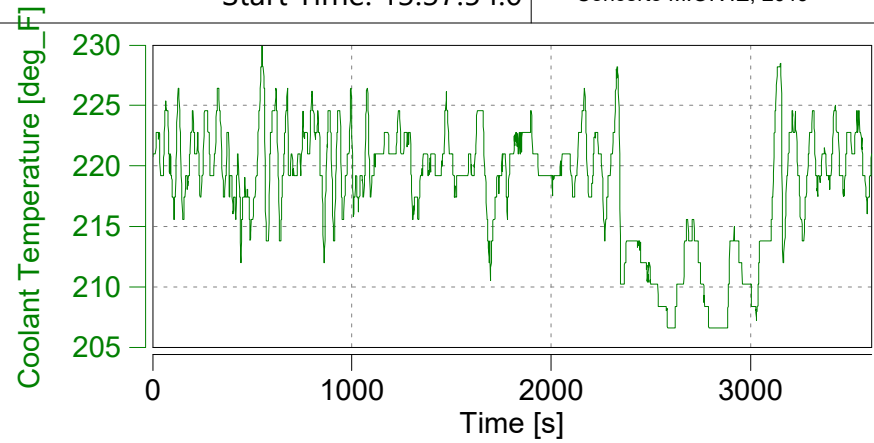
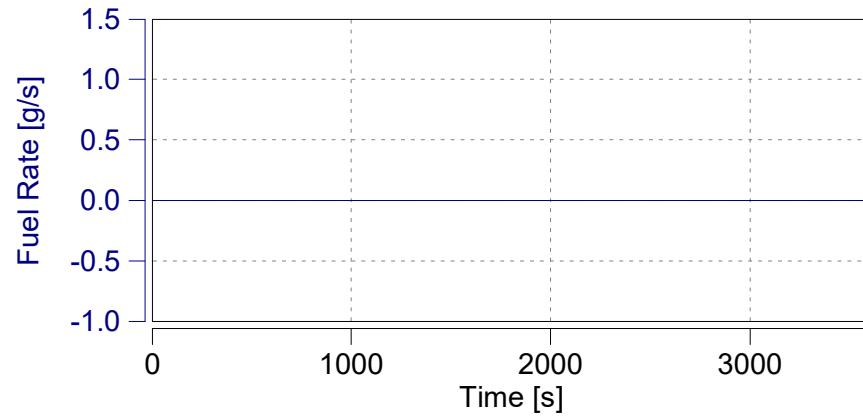
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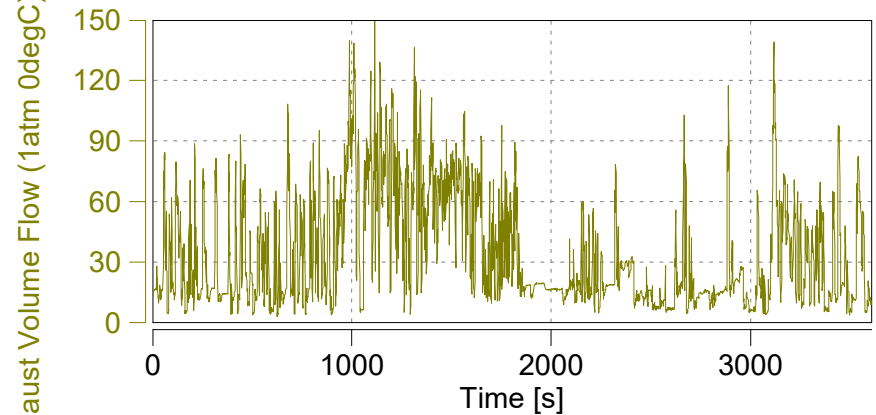
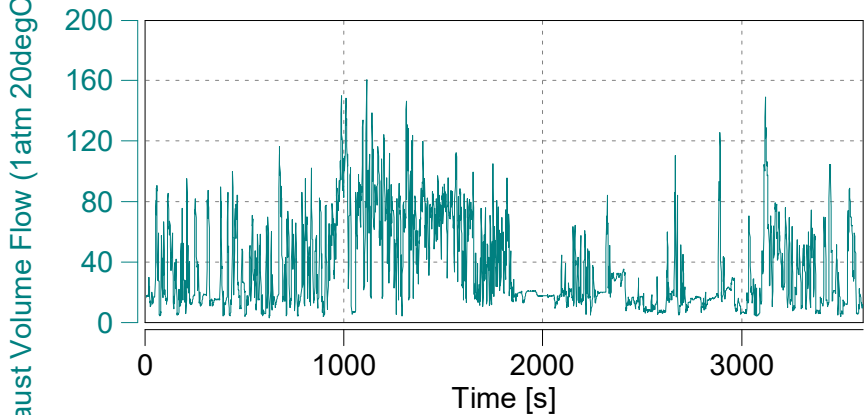
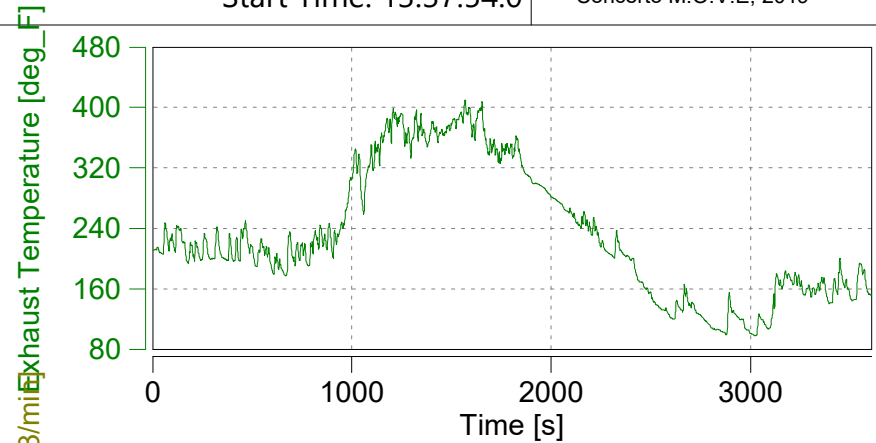
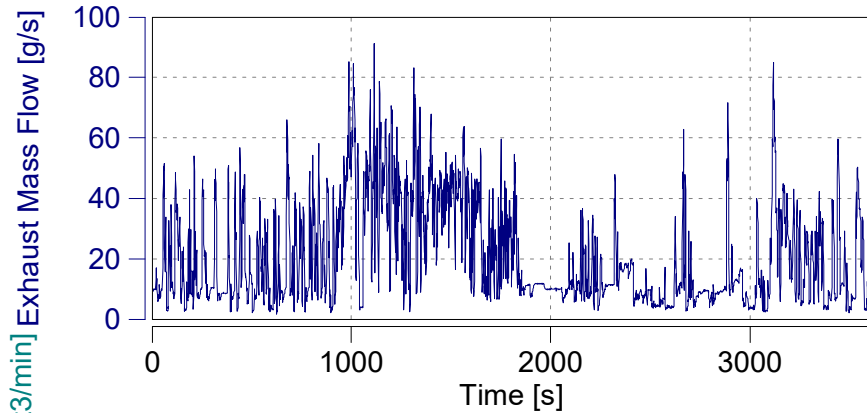
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



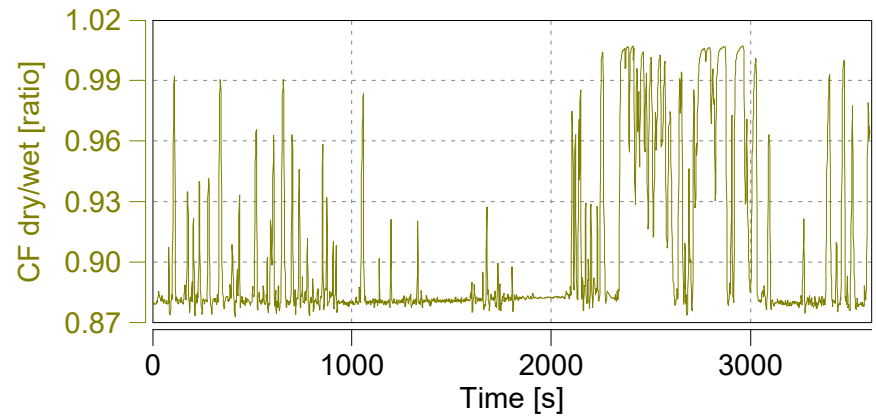
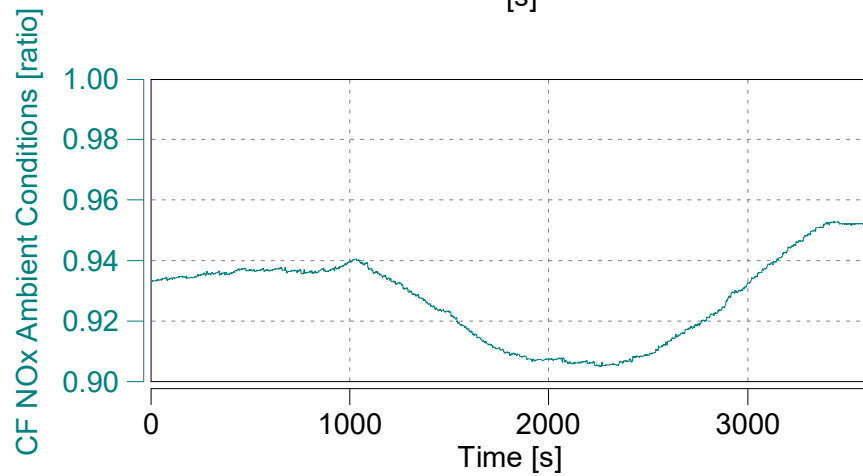
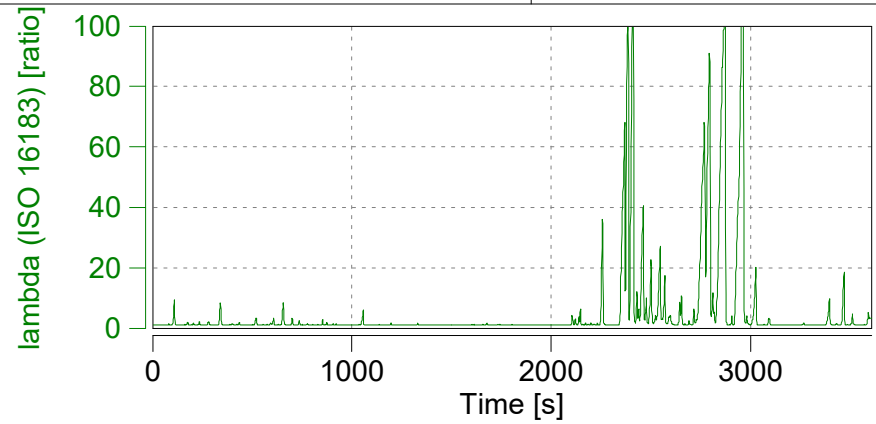
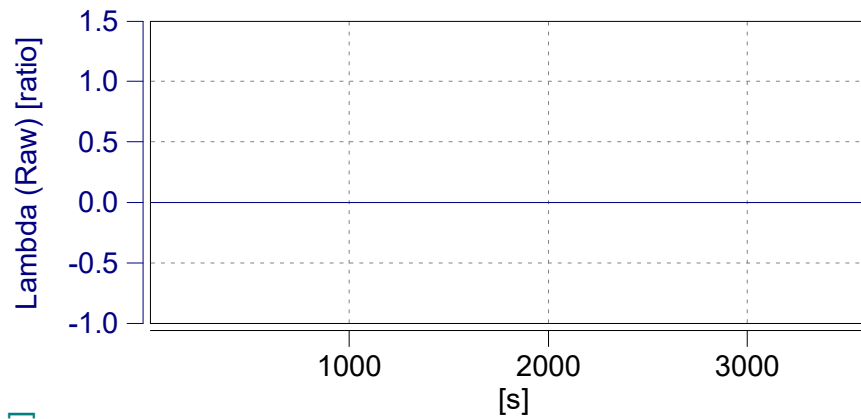
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Engine: /
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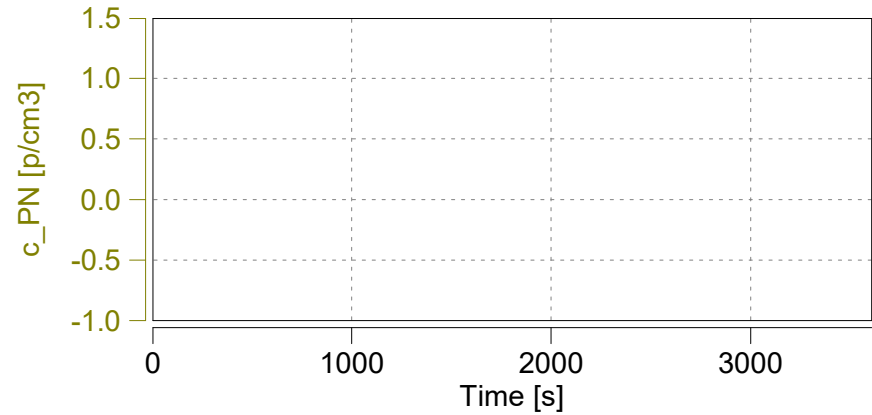
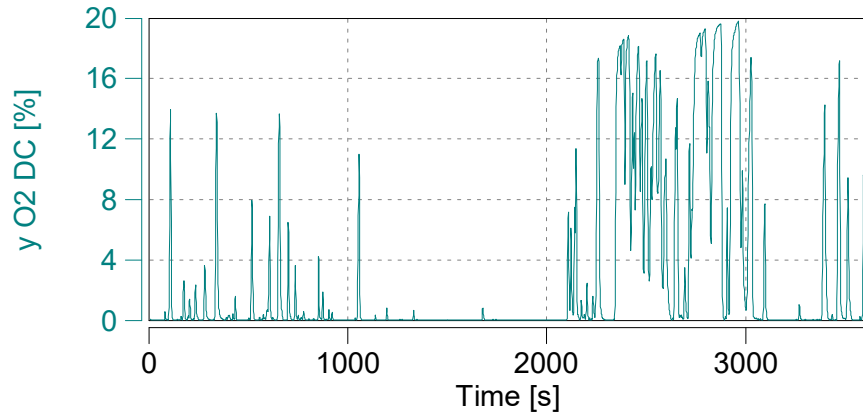
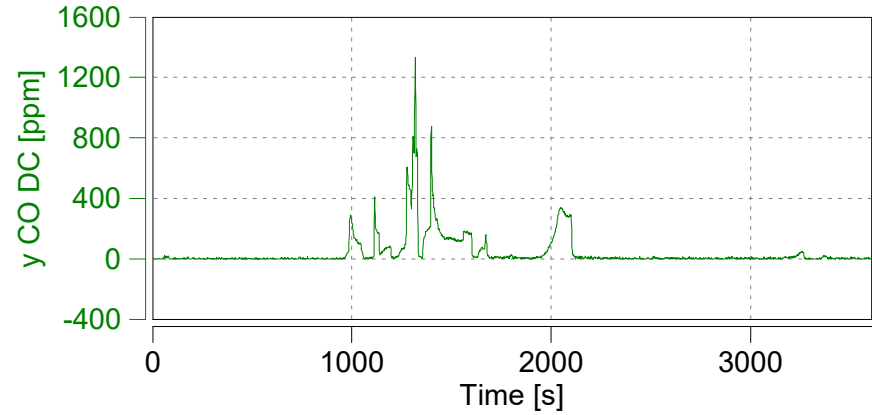
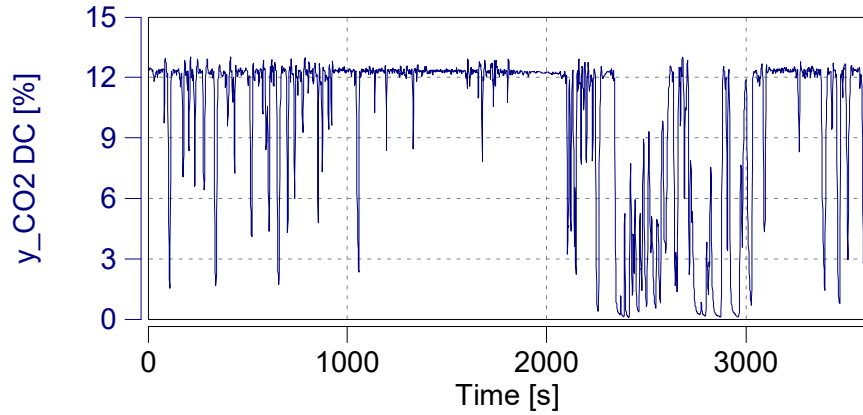
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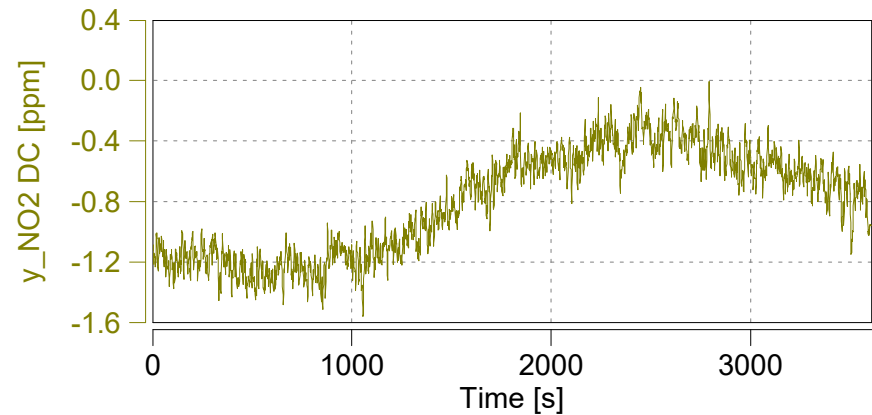
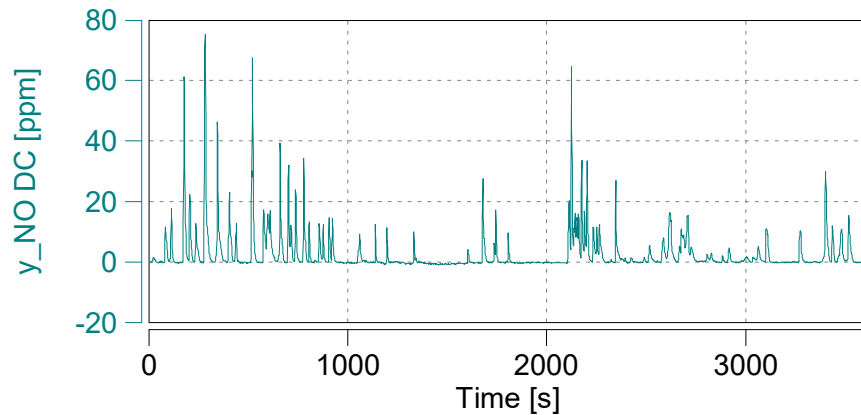
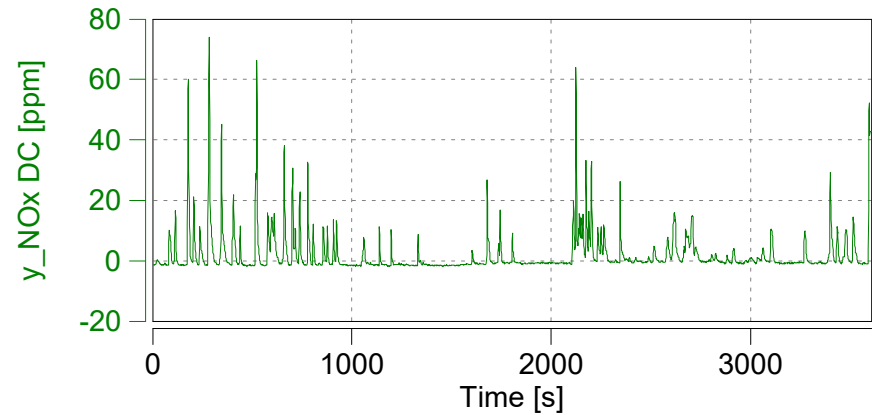
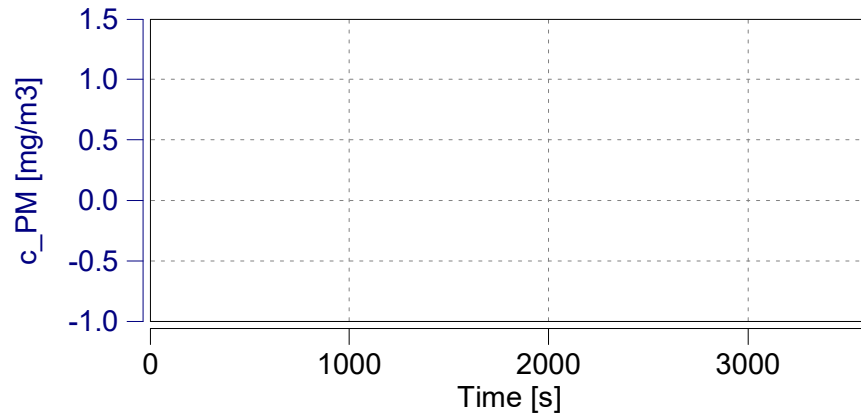
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90



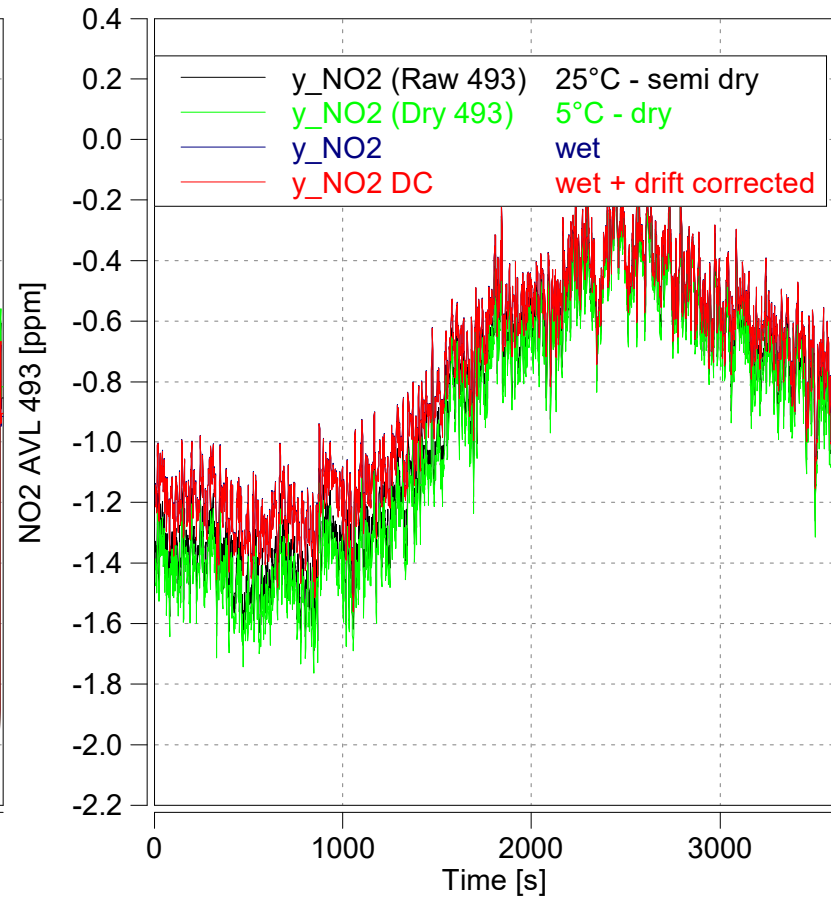
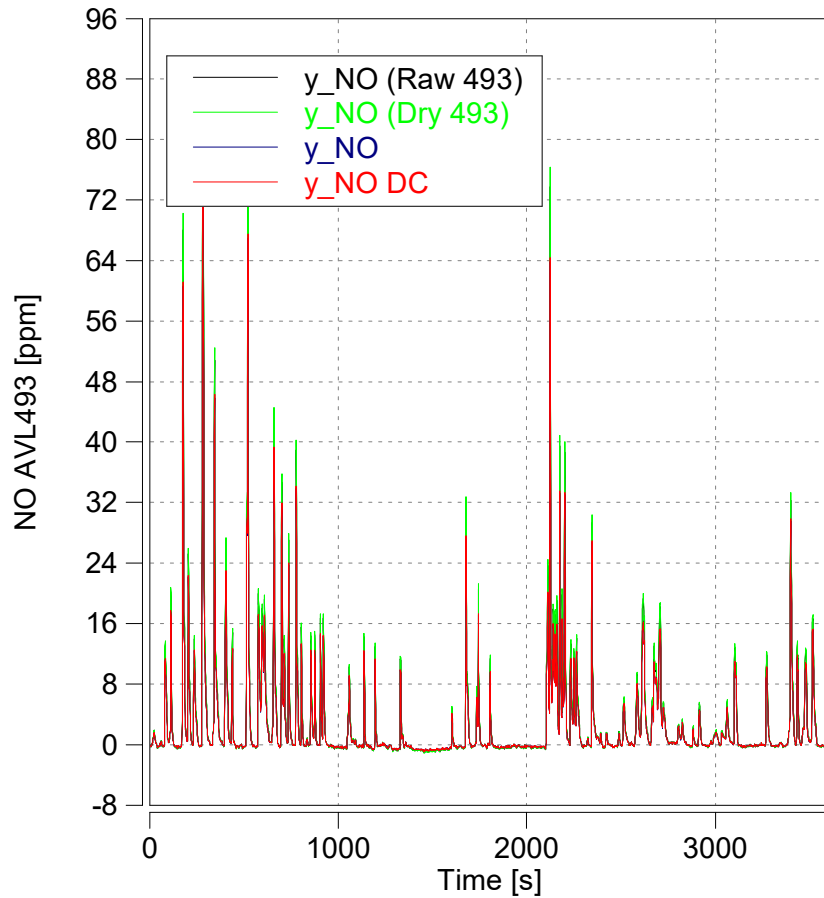
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Dry / Wet Corr.: 2 - CFR40 §86.1342-90

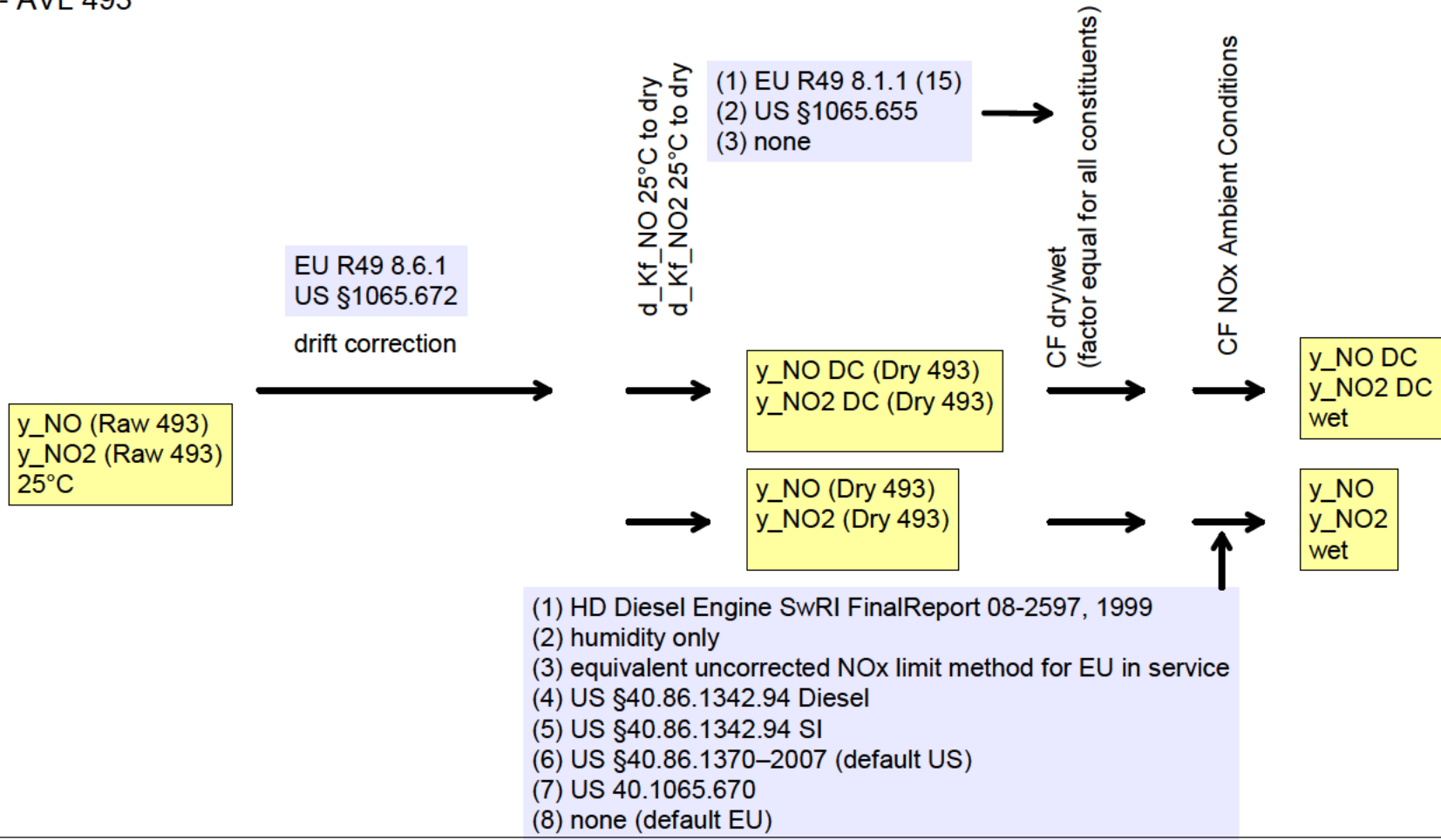


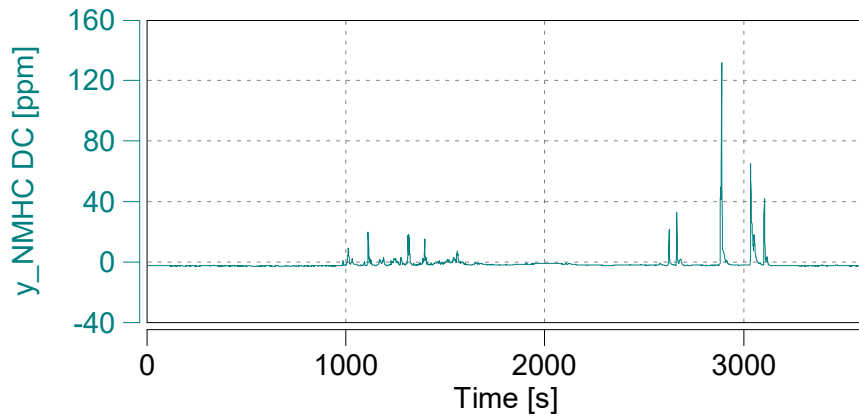
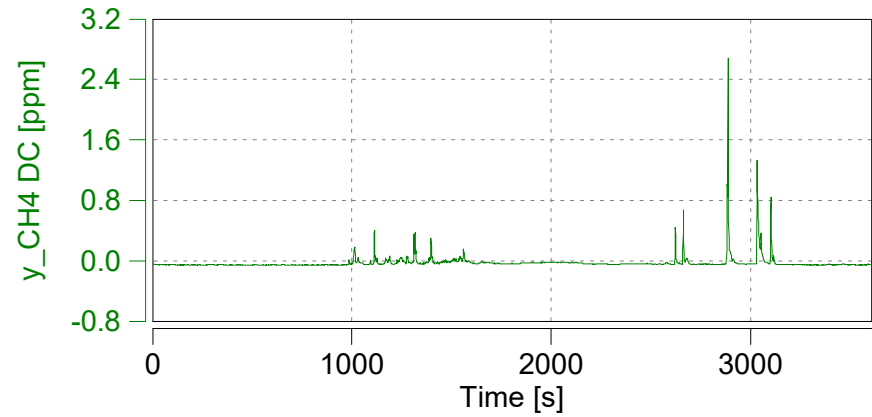
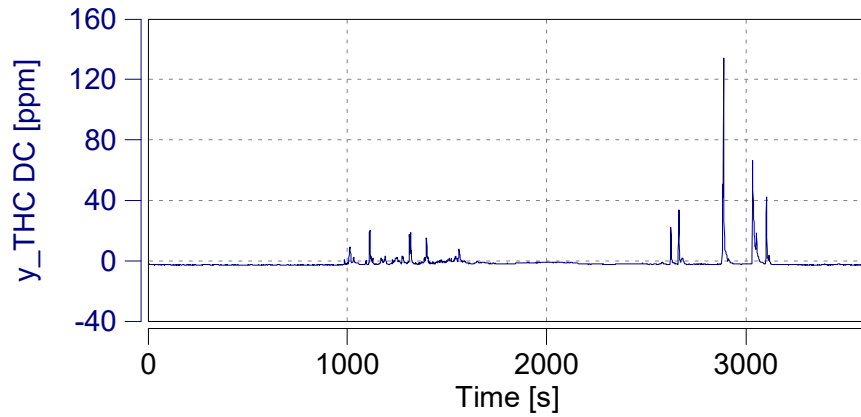
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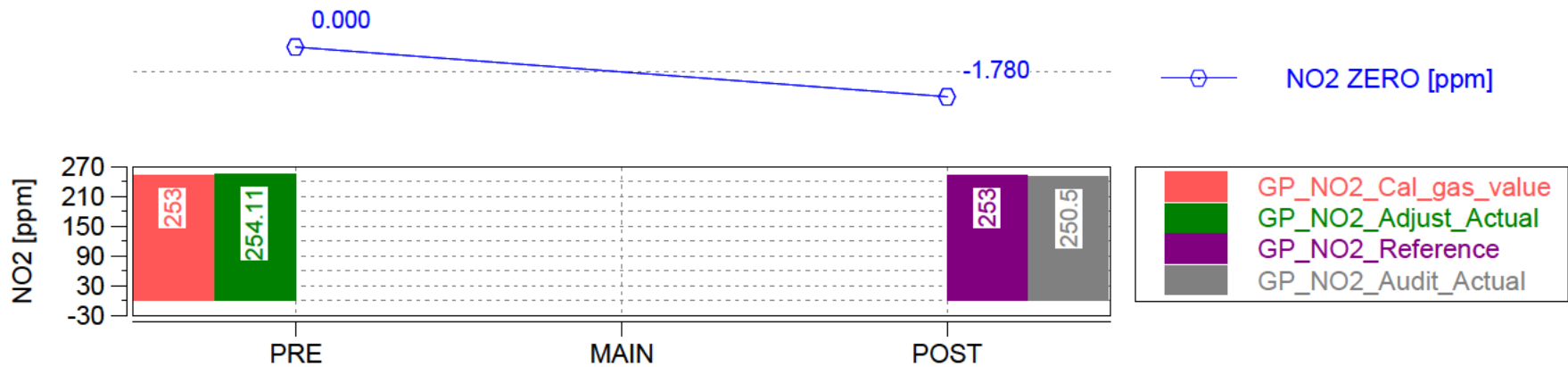
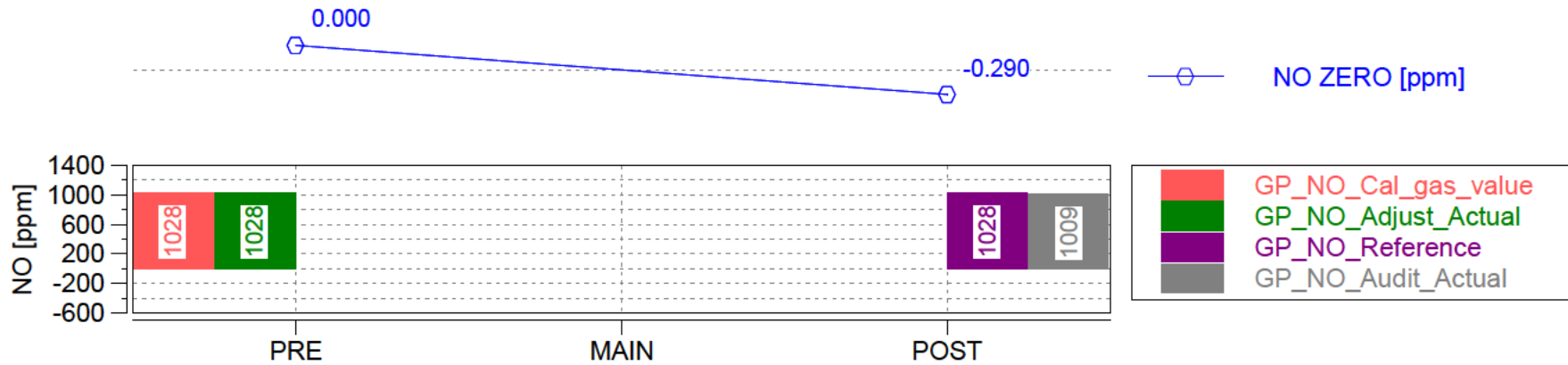
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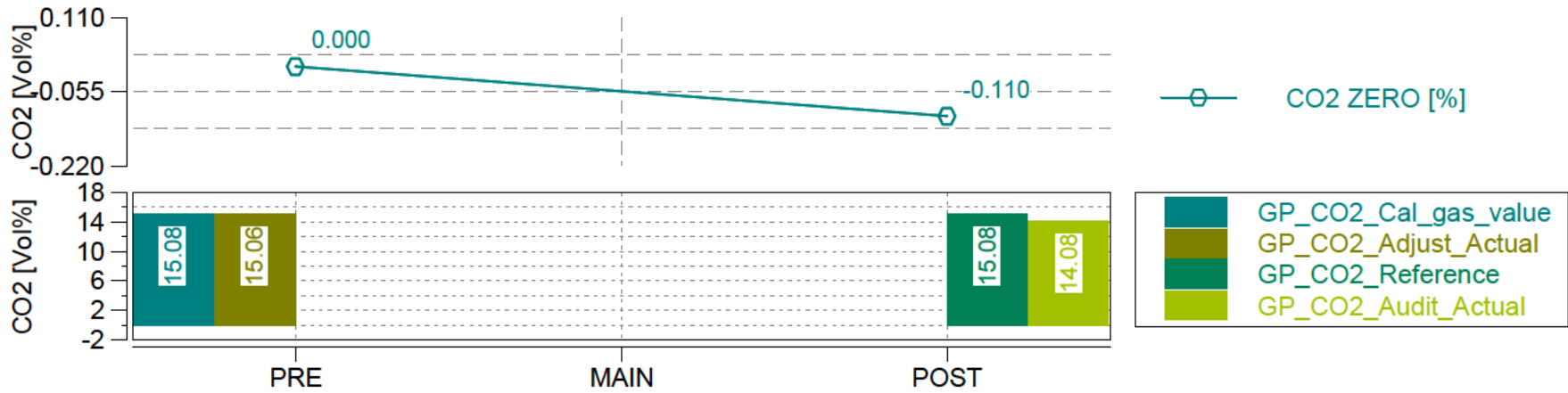
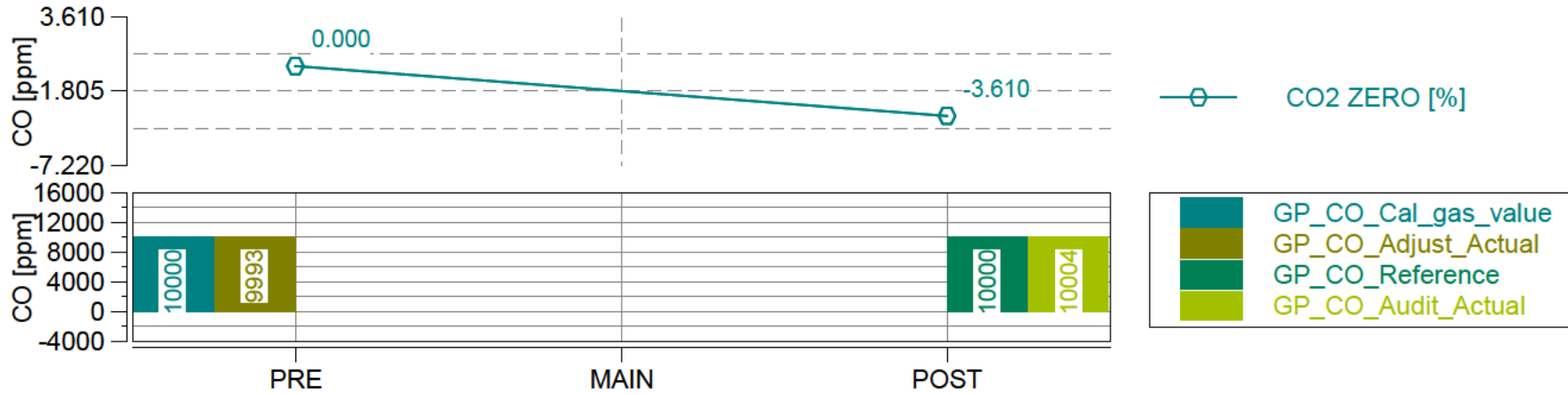
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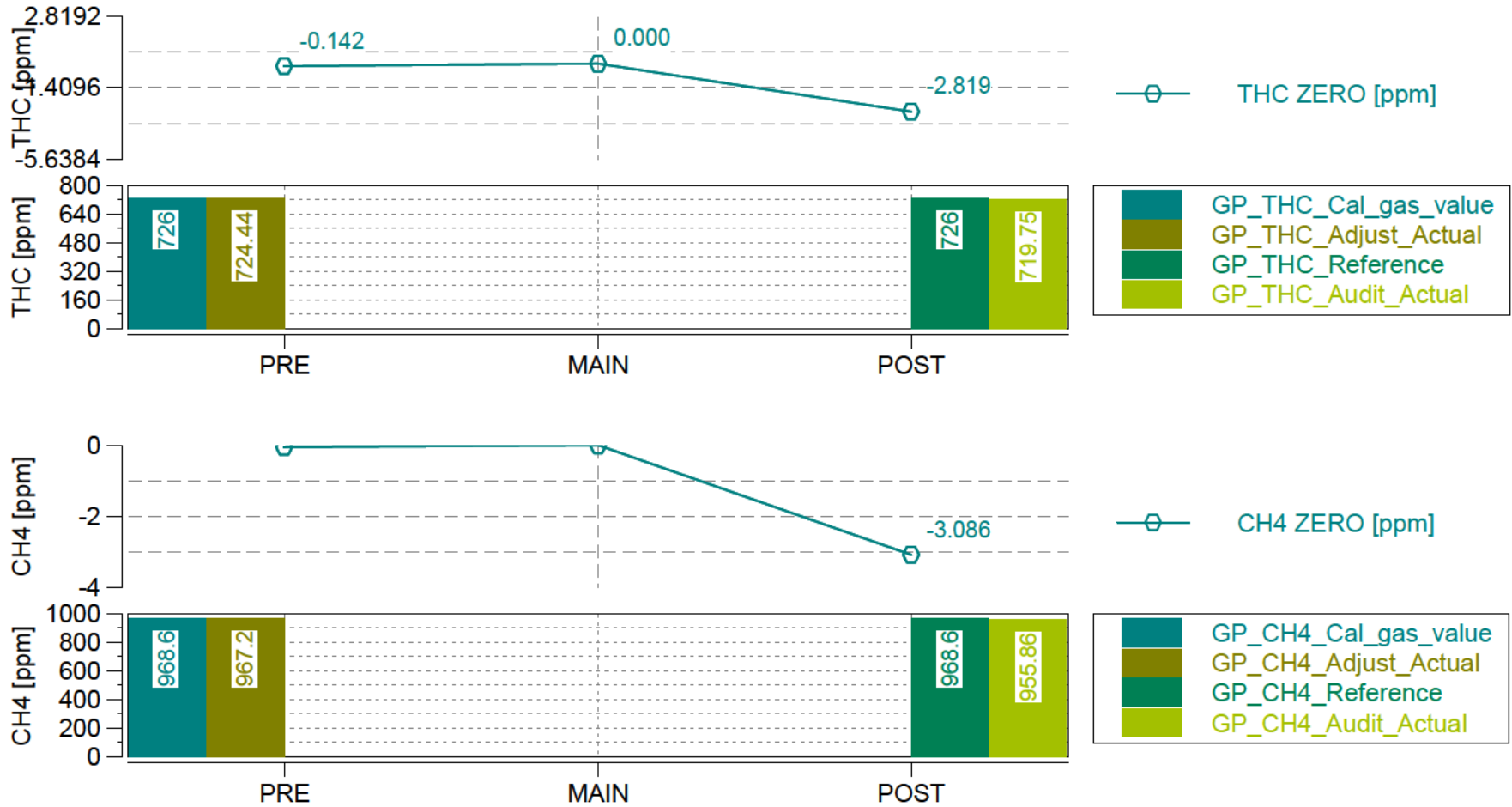
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Vehicle: A8 / 4.0 L
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Concerto Version: 480 Build 316, Serial Number: 1120
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Concerto Version: 480 Build 316, Serial Number: 1120
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Anhang C - Versuch

Die Emissionen jedes relevanten Schadstoffes wurden auf der Grundlage Gramm/Test verglichen. Die UCR bearbeitete die Daten der PEMS-Messungen nach und erhielt die erforderlichen Daten für die Vergleiche von den CVS-Emissionsmessungen, siehe Abbildung 1. Die Kriterien für akzeptable Korrelationen für die Gramm/Test-Emissionen hingen von dem jeweils gemessenen Schadstoff ab und wie nahe die Messungen an den Nachweisgrenzen lagen. Typische Kriterien für diese Vergleiche wurden auf Grundlage ähnlicher Tests, die in Europa durchgeführt wurden, entwickelt. Diese Kriterien sind unten in Tabelle 1 aufgeführt. Die UCR hat nach Abschluss der Korrelations-Emissionstests an jedem Fahrzeug auch die gemessenen Emissionen und andere Daten verifiziert (einschließlich Datenprotokolle, Konsistenzprüfungen und Plausibilitätsprüfungen).

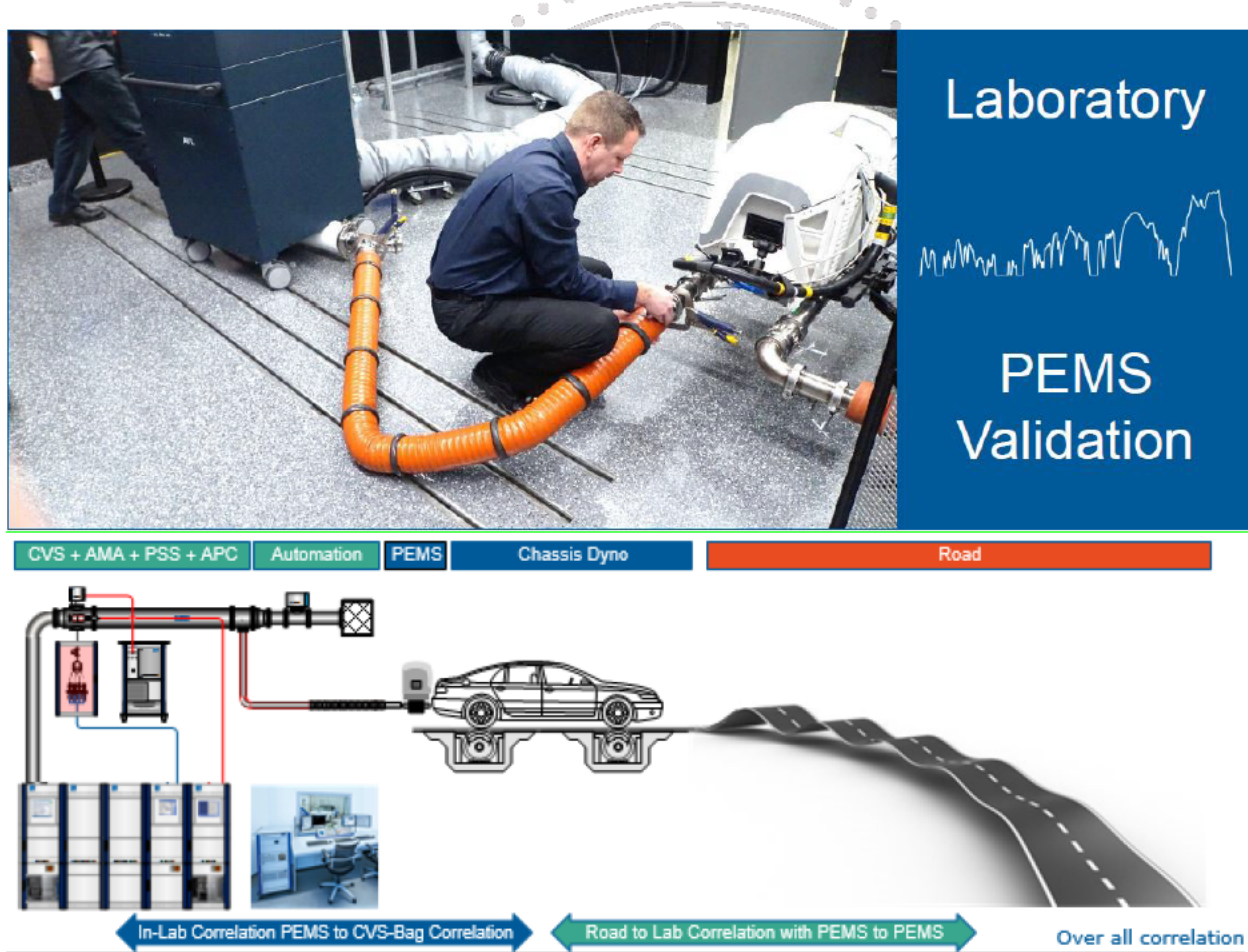


Abbildung 1: Validierung des PEMS durch stationäre Labore

Tabelle 1: Typische Spezifikationen für auf europäischen Kriterien basierende PEMS/CVS-Vergleiche

Pollutant	Absolute Zero response drift	Absolute Span response drift (!)
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

(!) If the zero drift is within the permissible range, it is permissible to zero the analyser prior to verifying the span drift.;

Das AVL PEMS führt eine Daten-Konsistenzprüfung durch, die eine Korrelation zwischen dem in der Motorsteuereinheit (ECU) gemessenen Kraftstoffdurchfluss und dem mit der Formel in Abschnitt 8.4.1.6 von Anhang 4B der UN/ECE-Regelung Nr. 49 oder mit Verfahren gemäß U.S.-Regelungen berechneten Kraftstoffdurchfluss beinhaltet. Für diesen Test war ein Mindest-Bestimmtheitsmaß von 0,90 und eine Steigung zwischen 0,9 und 1,1 erforderlich.

Das PEMS-System gleicht vor Massenberechnungen Motor, GPS, Konzentration und Abgasstrommessungen auf eine gemeinsame Zeitbasis an. AVL CONCERTO verfügt über eine automatische Zeitabgleichsfunktion, die in den Postprozessor eingebaut ist, die verwendet wurde. Die UCR führte einen Abgleich der Fahrzeuggeschwindigkeit auf die GPS-Geschwindigkeit und der Motordrehzahl auf den Abgasstrom durch. Emissionen wurden anhand eines Berechnungsansatzes angeglichen, der Verzögerungen aufgrund des Probenflusses, der Leitungslängen und der Mischungsvolumina in jedem Analysepfad berücksichtigte.

Probenentnahme von Prüfungen mit einem Mobilem Emissionsmessgerät (PEMS)

In diesem Unterabschnitt werden die für die Test eingesetzte PEMS-Ausrüstung sowie die Betriebsabläufe für PEMS und die Datenverarbeitung beschrieben.

Mobiles Emissionsmessgerät (PEMS)

Die UCR hat direkt mit AVL zusammengearbeitet, um die Systeme zu erhalten, die für die PEMS-Tests eingesetzt wurden. Bei dem hier verwendeten PEMS handelte es sich um einen AVL M.O.V.E Gas PEMS iS. (AVL PEMS). Die PEMS-Einheiten wurden von AVL vollständig 1065-verifiziert und einsatzbereit geliefert. Die UCR erhielt jeweils zwei Einheiten der PEMS-Komponenten, sodass immer ein PEMS für die Tests zur Verfügung stand und das andere im Fall von technischen Problemen als Ersatzgerät eingesetzt werden konnte. Die UCR wird beide PEMS-Einheiten über die Laufzeit des dreijährigen Testprogramms behalten.

Das AVL PEMS ist ein kompaktes, mobiles Gerät zur Messung von NO/NO₂, CO/CO₂ sowie der GKW-Konzentrationen im Abgas von Diesel-, Gas- oder Benzinfahrzeugen. Dieses System verfügt über das beheizte FID von AVL zur Messung des Gesamtkohlenwasserstoffs (GKW), das aus deren Schwerlast-PEMS-Anwendung übernommen wurde. In Verbindung mit den Emissionsmessungen liefert das PEMS-System von AVL GPS-Daten (Route, Fahrzeuggeschwindigkeit, Höhe und Beschleunigung) auf Sekundenbasis aus dem Motorsteuergerät (MSG) des Fahrzeugs sowie verbundene Parameter über eine OBD-Verbindung. Das PEMS von AVL wurde für Emissionen im praktischen Fahrbetrieb (RDE) und andere regulatorische Compliance-Anwendungen entwickelt.

Das AVL PEMS verwendet ein UV-Analysegerät zur Messung von NO/NO₂. Dieses UV- Analysegerät misst die NO und NO₂ gleichzeitig und direkt, ohne dass ein Umwandler erforderlich wäre. Das Analysegerät bietet in Bezug auf Stabilität eine gute Leistung, die Abweichung über mehrere Stunden beträgt nur wenige PPM. Für CO-/CO₂-Messungen wird ein NDIR-Analysegerät verwendet. Dieses NDIR-Analysegerät ist optimal für eine geringe Abweichung und hohe Genauigkeit des CO-Kanals, selbst bei sehr niedrigen Messbereichen.

In AVLs neuester Version des AVL PEMS wurde ein externes Cutter-FID-Modul integriert, um auch die Methan-Abgaskonzentrationen von Diesel-, Gas- oder Benzinmotoren und Fahrzeugen aufzunehmen. Das Modul wurde für diese Prüfung außerhalb des Fahrzeugs an einer Anhängerkupplung befestigt. Das Abgas wird über eine beheizte Transferleitung durch das Modul an die PEMS-Einheit geleitet. Das Modul ist vollständig in das AVL PEMS-System integriert. Es wurde bestätigt, dass das System alle DOT-Anforderungen in Bezug auf das Befördern von FID-Kraftstoff während der Straßentests erfüllt.

Der AVL M.O.V.E Abgasmassenstrommesser (EFM) misst den Abgasmassenstrom von Fahrzeugen mit Diesel- oder Benzinmotoren, siehe Abbildung 2. Er basiert auf dem Prinzip der Differenzdruckmessung und besteht aus zwei Hauptkomponenten: Einem „Pitot“- EFM -Messrohr und einem EFM -Steuerkasten mit Druckwandler und der Berechnungseinheit. Das EFM -Messrohr wird direkt am Auspuffrohr des Fahrzeugs unter dem Gehäusekasten, wie unten dargestellt, montiert. Der Abgasstrom wird zur Berechnung der Emissionsmassen aus den gemessenen Abgasemissionskonzentrationen benötigt. Abhängig von Motorgröße und -art sind verschiedene Arten von EFM -Messrohren verfügbar. Normalerweise ist ein 2,5“ EFM für den Abgasflussbereich eines normalen PKWs ausreichend, aber 3“-Zoll-EFM-Rohre sind bei Bedarf für Fahrzeuge mit einem Motor mit größerer Verdrängung verfügbar.

Der EFM -Steuerkasten AVL M.O.V.E misst die statischen und die dynamischen Drücke sowie die Abgastemperatur und berechnet den Abgasfluss auf der Grundlage des Pitotprinzips. Für genaue Messungen, selbst bei äußerst dynamischen Flussbedingungen im Abgasrohr, werden Druckwandler mit sehr hohen Übertragungsraten (5 kHz) verwendet. Die interne Temperatur des Steuerkastens wird auf ~50°C geregelt, um Kondensatbildung zu verhindern und stabile Flussmessungen zu ermöglichen, auch wenn sich die Umgebungstemperatur verändert. Die EFM -Steuerbox ist vollständig in das AVL PEMS-System integriert und wurde über die AVL M.O.V.E-Systemsteuerung bedient. Die EFM-Steuerbox ist von dem EFM-Rohr getrennt und wurde für diese Prüfung außerhalb des Fahrzeugs installiert. Dadurch reduziert sich das Eigengewicht des EFM-Rohrs und macht die Installation am

Abgasendrohr einfacher. Zur Verbindung des EFM -Steuerkastens mit dem EFM wird ein hybrides Pneumatik-Elektro-Kombikabel verwendet, um die Anzahl der Kabel, die für die Installation erforderlich sind, zu reduzieren.

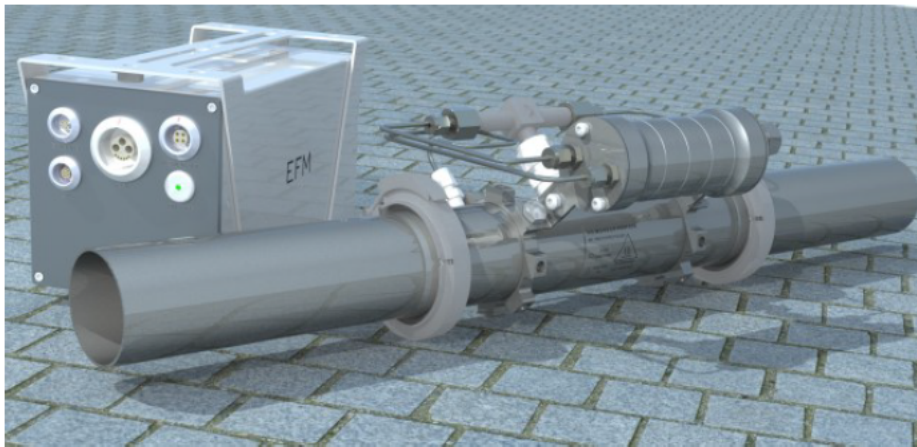


Abbildung 2: Der mit dem AVL-System zusammen verwendete Abgasmassenstrommesser

Alle Analysegeräte werden in temperaturgesteuerten Gehäusen (Abbildung 3) installiert, um auch bei veränderlichen Umgebungsbedingungen für stabile Bedingungen und eine hohe Genauigkeit zu sorgen. Der Zugang zu den Verbrauchsstoffen ist einfach über eine Serviceklappe gewährleistet. Das AVL PEMS kann im Innern des Fahrzeugs oder außen an einer Anhängerkupplung installiert werden. Für die Prüfung in diesem Programm wurde das PEMS an einer Anhängerkupplung außerhalb des Fahrzeugs installiert. Ein internes Temperaturlaufbereitungssystem, das gezielt für den mobilen Einsatz konstruiert wurde, stellt einen zuverlässigen Betrieb über einen großen Betriebstemperaturbereich in der Umgebung von $-10\text{ }^{\circ}\text{C}$ bis $+45\text{ }^{\circ}\text{C}$ ohne zusätzliche Heiz- oder Kühlvorrichtungen sicher. Das Gerät ist mit internen Dämpfern ausgestattet, sodass keine zusätzlichen externen Dämpfplatten in PKW-Anwendungen erforderlich sind. Der Stromverteiler (eBox) und die Batterien können auf dem AVL PEMS montiert werden und befinden sich in der abgebildeten Schutzabdeckung. Für die im Rahmen dieses Programms durchgeführte Prüfung wurde eine einzelne Abgas-Probennahmeleitung verwendet, die mit der EFM-Sektion verbunden wurde.



Abbildung 3: Typische Installationen des AVL-Systems mit Gehäuse an der Anhängerkupplung

Die Spezifikationen für das AVL PEMS-System sind in der nachfolgenden Tabelle 2 enthalten.

Tabelle 2: Spezifikationen für das AVL-PEMS System

Betriebstemperatur (Umgebung)	-10°C bis 45°C
Lagertemperatur	-40°C bis +70°C (Sauerstoffsensor muss bei unter 0°C und über 50°C entfernt werden)
Abmessungen (BxHxT)	Messmodul: ~ 500 x 350 x 374 mm mit Schutzabdeckung: ~ 590 x 480 x 447 mm
Gewicht	< 30 kg (NO _x Modul)
Aufwärmzeit	Normalerweise 45 Min. ... abhängig von der Umgebungstemperatur
Energiebedarf	22 V bis 28 V DC, ca. 250 W bei 20°C Umgebungstemperatur (mit 1,25 m Probenahmeleitung und nach dem Aufwärmen)
Probendurchsatz	< 3.5 L/Min
Probenbedingungen	Ende des Abgasendrohrs, ±50 mbar Relativdruck
Elektrische Eingänge/Ausgänge	1x Anschluss für Heizleitung 1x Ethernet (TCP/IP)
Messbereich	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)
Genauigkeit	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 oder +-2% rel. NO ₂ : 0 – 2,500 ppm: +-0.2% FS oder +-2% rel.
Nullpunktdrift	CO: 20 ppm/8h, CO ₂ : 0.1 vol%/8h, NO: 2 ppm/ 8h NO ₂ : 4 ppm/8h
Messbereichsdrift	CO: ≤ 20 ppm abs./8h oder 2% rel./8h CO ₂ : ≤ 0.1 vol% abs./8h oder 2% rel./ 8h NO/ NO ₂ : ≤ 1% rel./ Woche
Linearität	Steigung: 0,99 ≤ Steigung ≤ 1,01, Achsenabschnitt ≤ 0,5 %, SEE: ≤ 1% des Bereichs und R2: ≥ 0,999

*Gerät vollständig aufgewärmt, 24 V-Versorgung, Laborbedingungen und unter Verwendung von trockenen Kalibrierungsgasen

Bei Straßentests wurde ein Folgefahrzeug zusammen mit dem tatsächlichen Testfahrzeug eingesetzt. Das Folgefahrzeug fuhr direkt hinter dem Testfahrzeug, um das AVL PEMS-System zu schützen. Dies half dabei, etwaige Schäden zu minimieren, zu denen es während der Praxistests und den damit verbundenen Fahrten hätte kommen können. Abbildung 4 zeigt ein typisches Bild eines Praxistests von einem Verfolgerfahrzeug aus.



Abbildung 4: Typischer Straßentest, vom Verfolgerfahrzeug aus gesehen

Die UCR arbeitete in Bezug auf ggf. erforderliche Wartung und Kalibrierung dieser Einheiten direkt mit AVL zusammen. Dafür hat AVL unmittelbar auf dem UCR CE-CERT Gelände eine Wartungs-, Kalibrierungs- und Reparatereinrichtung für ihr PEMS-System eingerichtet.

Datenverarbeitung und Berichterstattung

Die Bewertung und Verarbeitung der Testdaten wurde mit der AVL CONCERTO M.O.V.E-Software (CONCERTO) durchgeführt, die einen vollständigen Datenanalyse- und Abgleichberechnungsprozess ermöglicht. Die Software hat eine graphische Benutzeroberfläche mit der Fähigkeit, Daten durch Verschieben mit der Maus zu parametrieren. Die Software enthält auch benutzergeführte Testsequenzen (Vor-, Haupt- und Nachtests), um den Betrieb so einfach wie möglich zu gestalten und ungültige Testläufe zu vermeiden. Die Software unterstützt alle Berechnungen sowie die vollständige Testvalidierung für gebräuchliche Testanwendungen. Sie bietet darüber hinaus Funktionen wie die Integration von Google Maps für schnelle Fahrtenbewertungen, Videointegration und Synchronisierung sowie viele weitere Funktionen. Die grafische Benutzeroberfläche (GUI) der CONCERTO-Datennachbearbeitung bietet die Möglichkeit, Testdaten mit Google Maps oder externen Videodateien zu verknüpfen. Zusätzliche Informationen wie z.B. GPS-Daten, Umgebungsbedingungen, Drehmomentverlaufskurve des Motors, Motorleistungsdaten, Testfahrt und Kraftstoffverbrauch können ebenfalls angezeigt werden. Dies ist eine Hauptfunktion zur Bewertung von echten Testdaten unter veränderlichen Testbedingungen. Die CONCERTO Datennachbearbeitung bietet eine wertvolle Einsicht in die Daten und wie die tatsächlichen Bedingungen auf der Straße damit verbunden sind. Das

Programm verfügt ebenfalls über Funktionen für Hybridfahrzeuge, bei welchen in gewissen Zeiträumen kein Abgasstrom vorhanden ist.

Für dieses Programm wurde CONCERTO kundenspezifisch für Straßentests angepasst. Die individuellen Datenberichte für jedes Fahrzeug und jede Teststrecke wurden so formatiert, dass sie Datenberichte und Diagramme für jeden relevanten Schadstoff sowie Informationen über die QA-/QC-Prüfungen beinhalten. Das Format basiert auf Vorlagen, die in der Berichterstattung für gesetzliche Anforderungen zu RDE verwendet werden und enthält ähnliche Mengen an Details. Die Daten wurden in eine CONCERTO-Transportdatei (CTF-Datei) oder eine CSV-Datei exportiert.

Qualitätssicherung und Qualitätskontrolle (QA/QC)

Als ein wichtiges Element dieser Tests gilt, dass die Instrumente den höchstmöglichen Stand in Bezug auf QA/QC erfüllen. Die UCR hat direkt mit AVL zusammengearbeitet, um sicherzustellen, dass alle QA-/QC-Merkmale erfüllt wurden. Die beiden PEMS-Systeme, die AVL bereitgestellt hat, wurden vollständig kalibriert gemäß den 1065 Kalibrierungskriterien geliefert. Dies schloss alle jährlichen, halbjährlichen und monatlichen Prüfungen gemäß CFR 1065, Teil J mit ein. AVL hat zusätzliche Kalibrierungen durchgeführt, die im Laufe der Tests erforderlich wurden. Es wurden auch als Teil der täglichen, monatlichen und Test-zu-Test-Routine QA-/QC-Prüfungen durchgeführt. Die QA/QC wurden größtenteils als Teil der automatisierten Prozesse innerhalb der CONCERTO-Software durchgeführt. Dies umfasst eine Reihe von Prüfungen vor und nach den Tests, sowie Linearitäts- und andere Prüfungen.

Motorparameter

Die Motorparameter wurden angefordert wie im Prüfplan für dieses Testprogramm aufgeführt. Dazu zählen MIL-Informationen, Temperaturen, Geschwindigkeit sowie andere emissionsbezogene PIDs. Einige Parameter waren wegen nicht installiertem Equipment in den Fahrzeugen nicht verfügbar (Lambda, B3- und Drehzahldaten).

Betrieb der Fahrzeuge

Alle Fahrzeuge wurden für die Prüfung des MJ 2019 von demselben Universitätsstudenten gefahren. Der verwendete Kraftstoff basierte auf den Empfehlungen auf dem Kraftstoffetikett und es wurde Kraftstoff von einer Standard-Tankstelle (E10) verwendet.

Ausstattung und Hinweise zur Prüfung

Während der Prüfung des MJ 2019 kam es nur zu einem Problem mit Instrumenten, das zu Verzögerungen bei der Prüfung an zwei Fahrzeugen führte. Das Computersystem des Analysegeräts war bei dem Arteon 2L und A6 2L überhitzt, was Prüfungsverzögerungen und zwei Teststrecken-Wiederholungen zur Folge hatte. Das Computer-Steuerungssystem wurde durch das Backup-Computer-Steuerungssystem ersetzt und die Prüfungen wurden abgeschlossen. Die Überhitzung trat

nach dieser Maßnahme nicht mehr auf. Alle Parameter und Prüfbedingungen innerhalb des Steuercomputers waren identisch und die Daten sind gültig.

Die MSG-Verbindung funktionierte bei allen Prüfungen der Fahrzeuge des MJ 2019. Die MSG-Signale werden für die Berechnung der Distanz benötigt.

Vier Mal gab es auf der Stadtstrecke starken Verkehr, der längere Testzeiten als üblich verursachte (Jetta 1,4L, A6 3,0L, A4 2,0L und A8 4,0L) und einmal gab es eine Baustelle auf der Bergstrecke, was längere Testzeiten als üblich zur Folge hatte (A6 3,0L).

