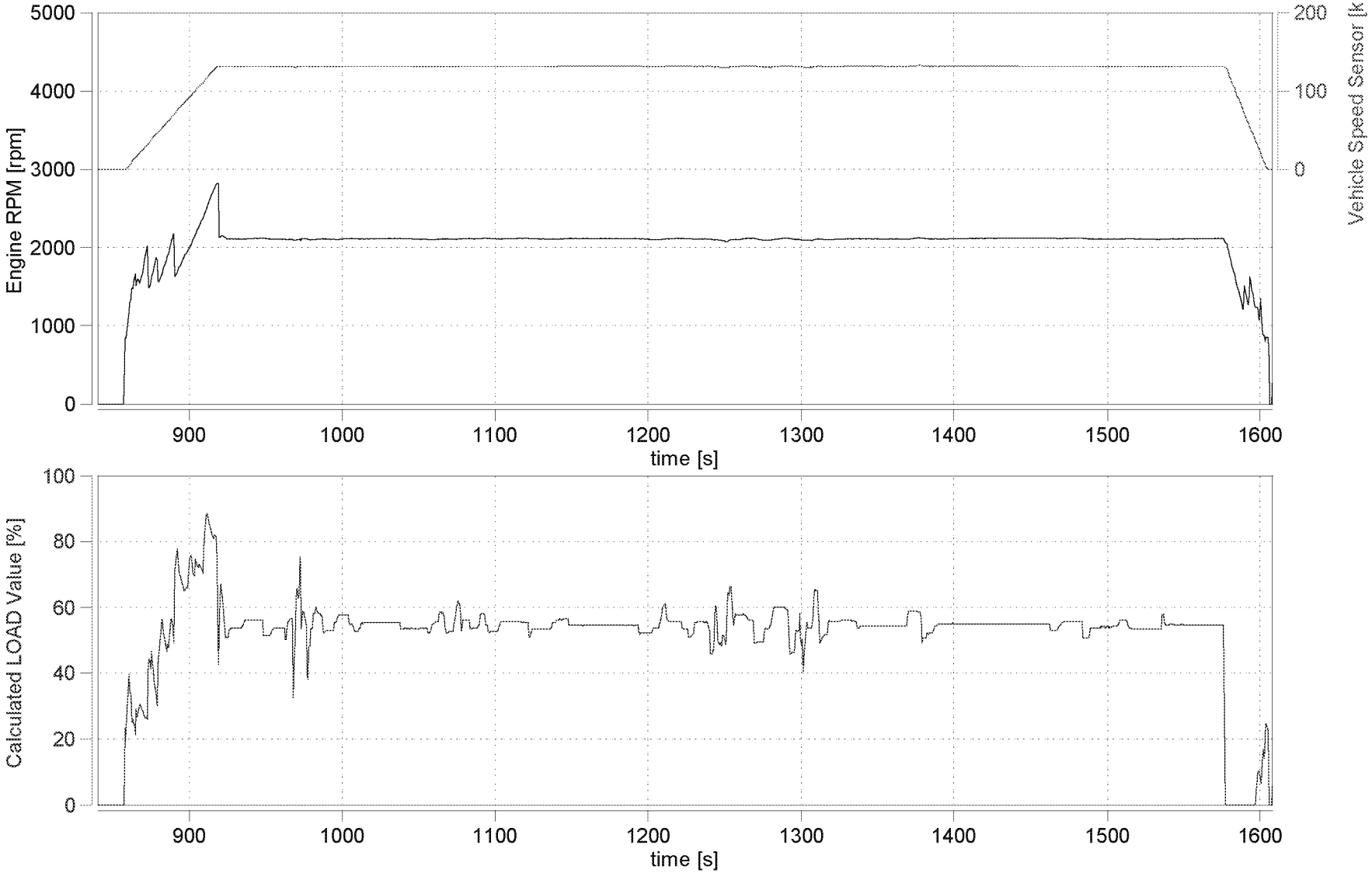
80mph Test Results

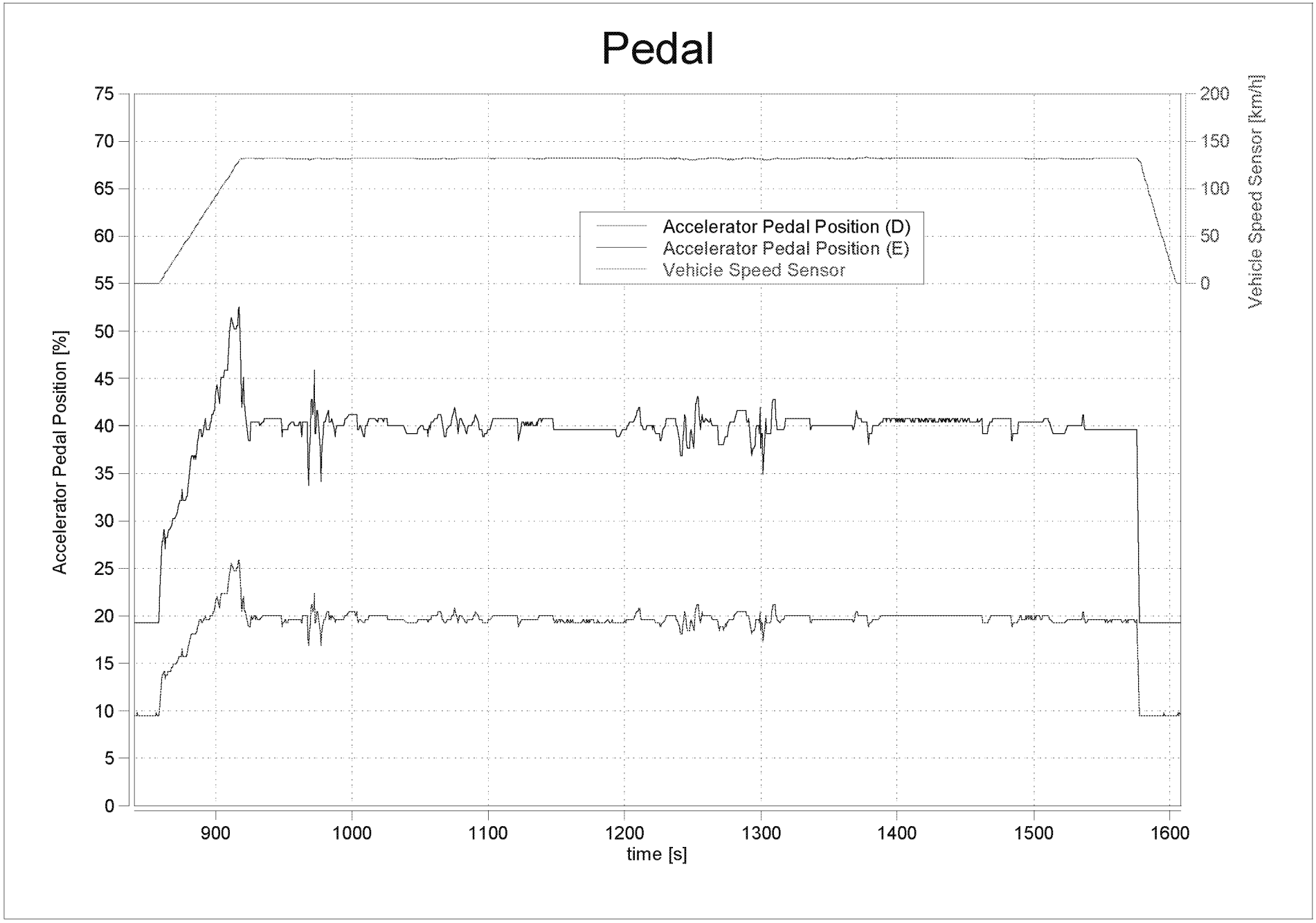
Vehicle Number: 161JLV8006

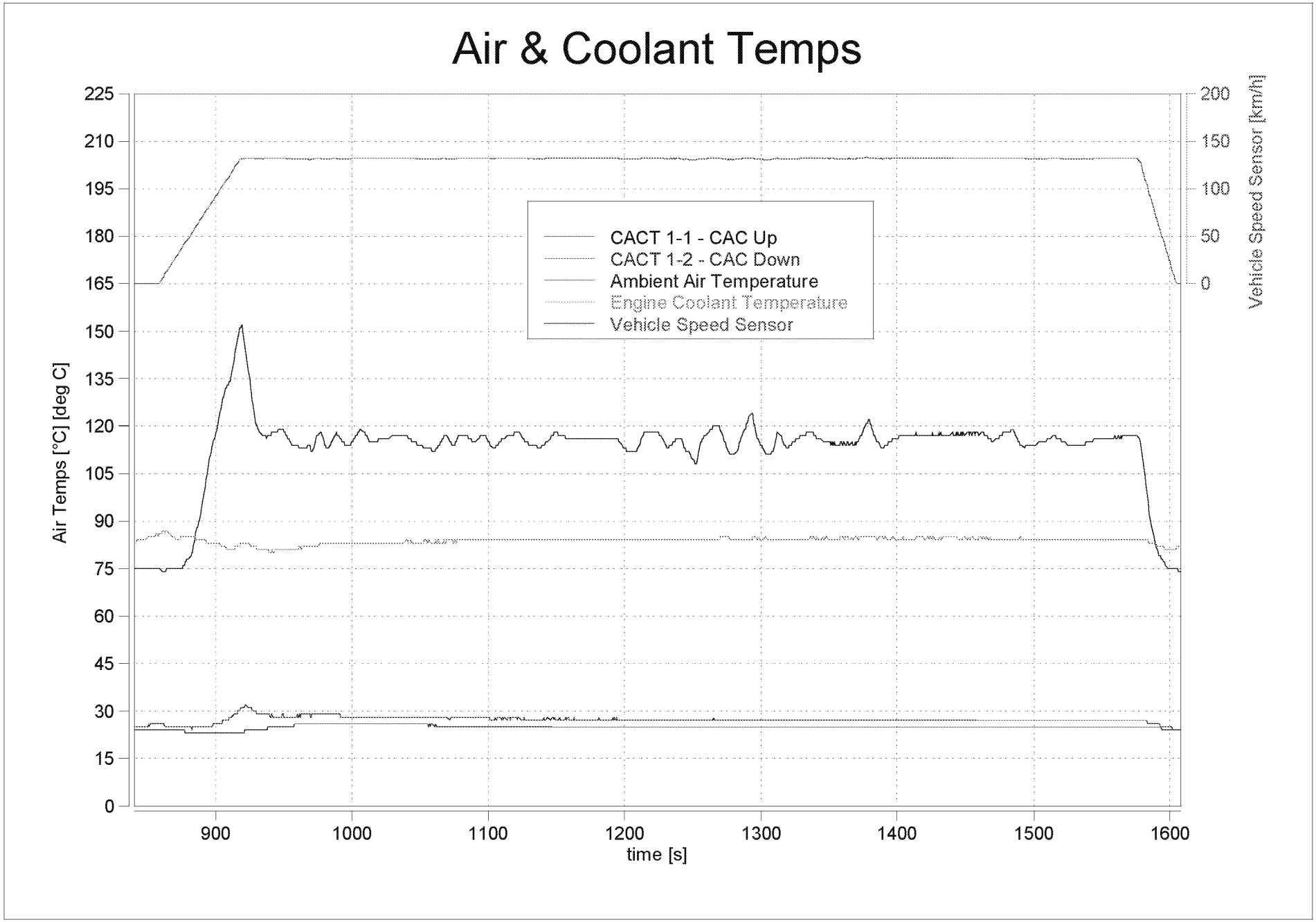
Test Number: MS16016347

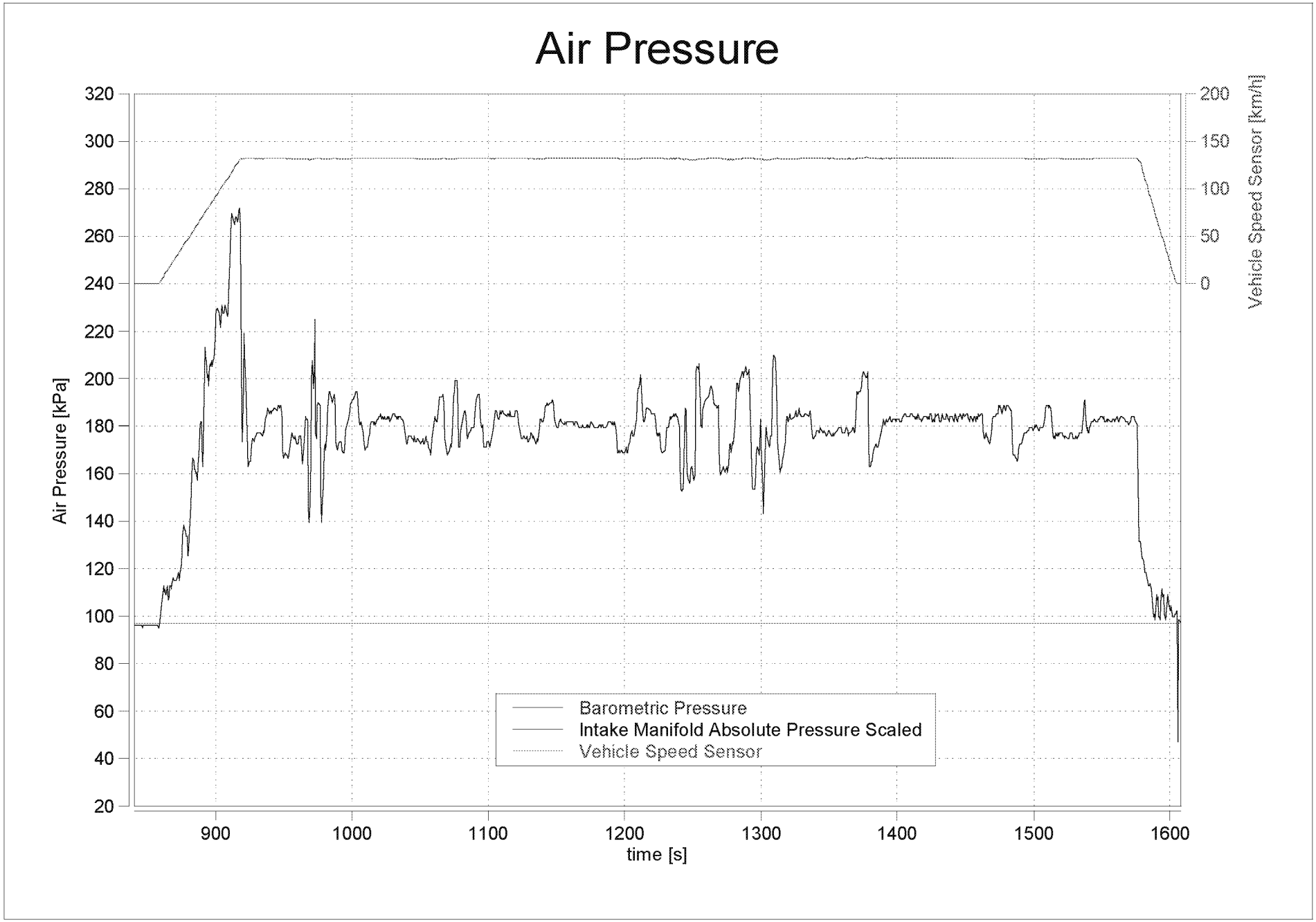
Test Date: June 17, 2017

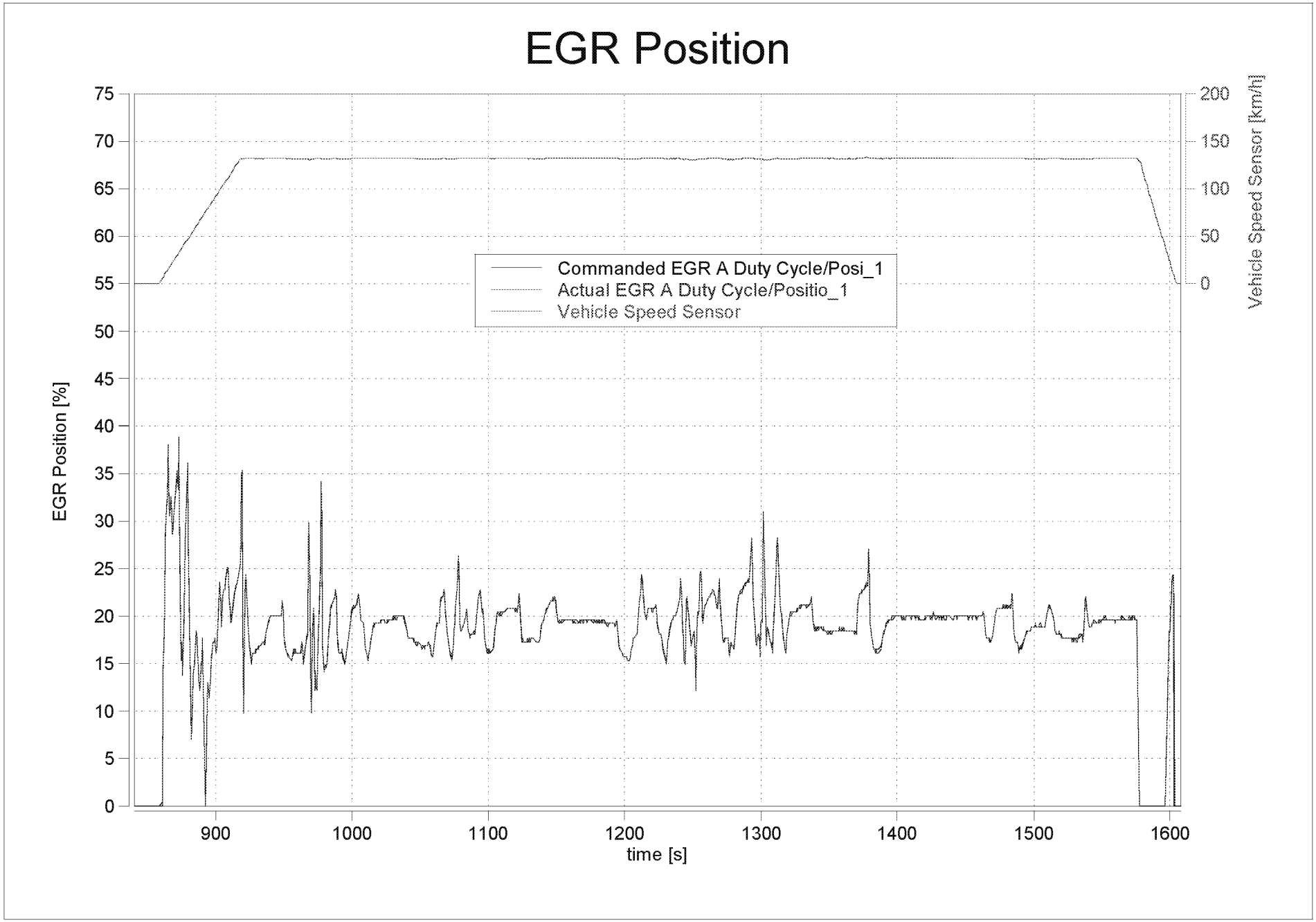
Engine Speed & Load

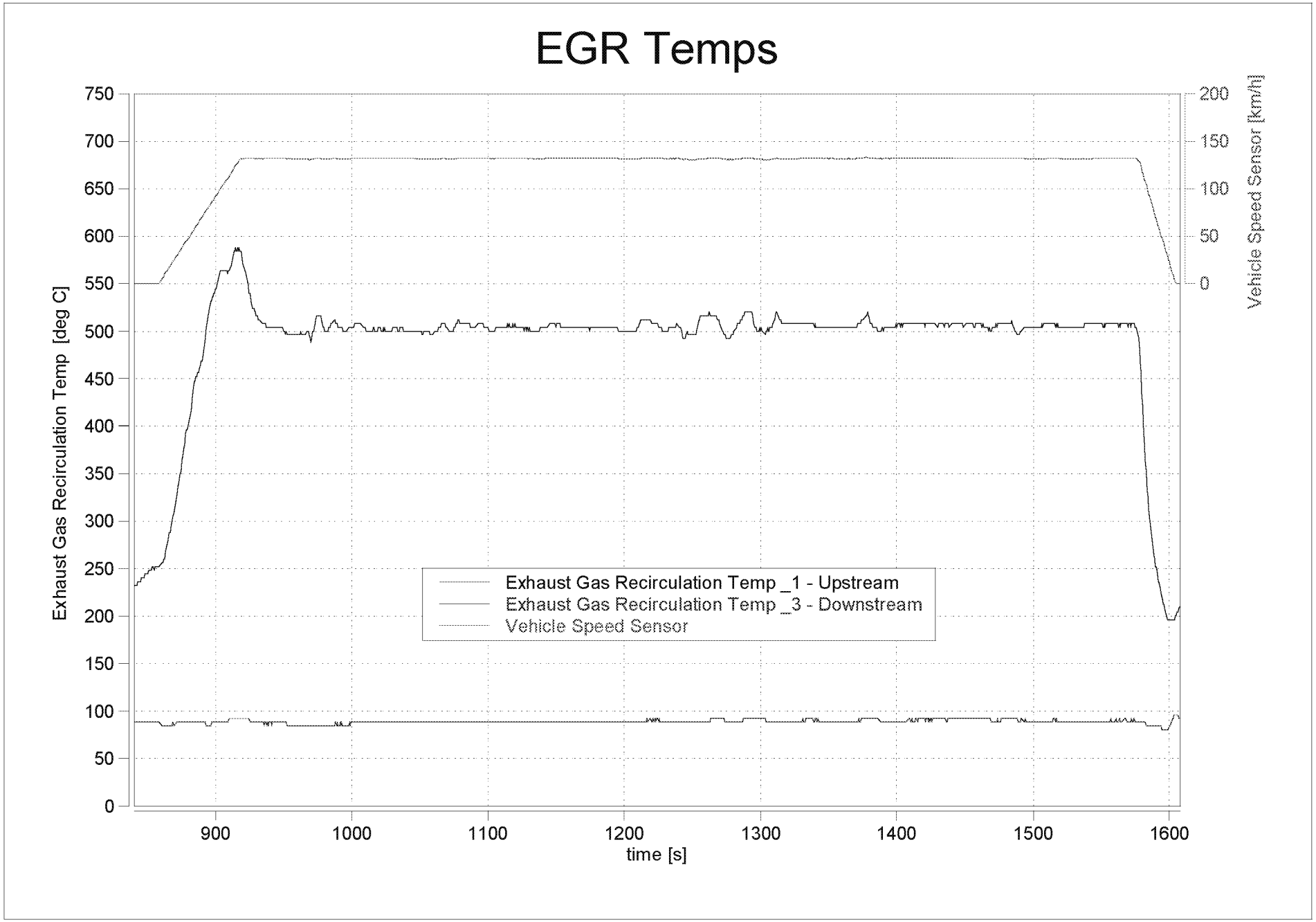


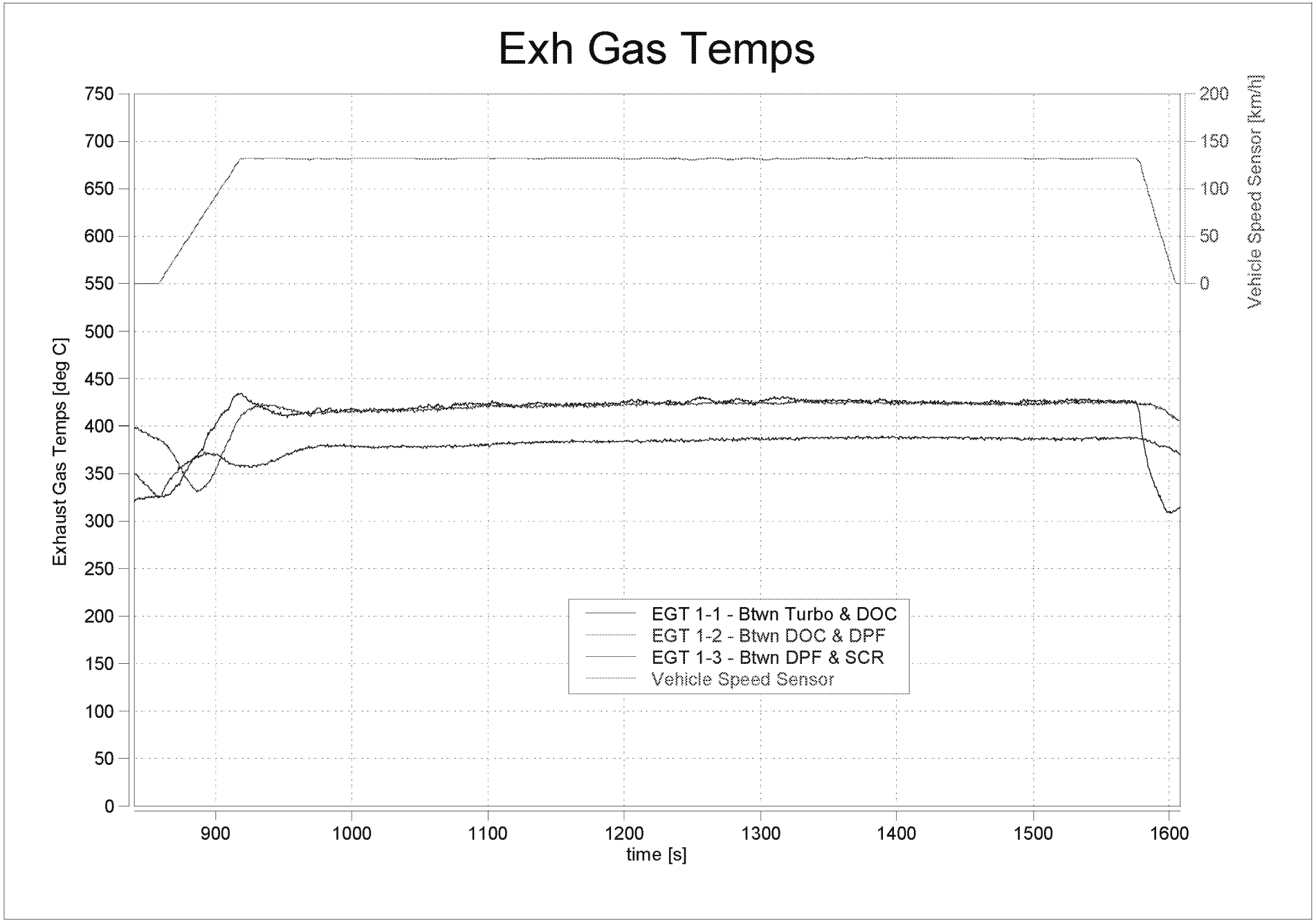

Pedal
Accelerator Pedal Position (D)
Accelerator Pedal Position (E)
Vehicle Speed Sensor
Accelerator Pedal Position [%]
Vehicle Speed Sensor [km/h]
time [s]
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
200
150
100
50
0
900
1000
1100
1200
1300
1400
1500
1600

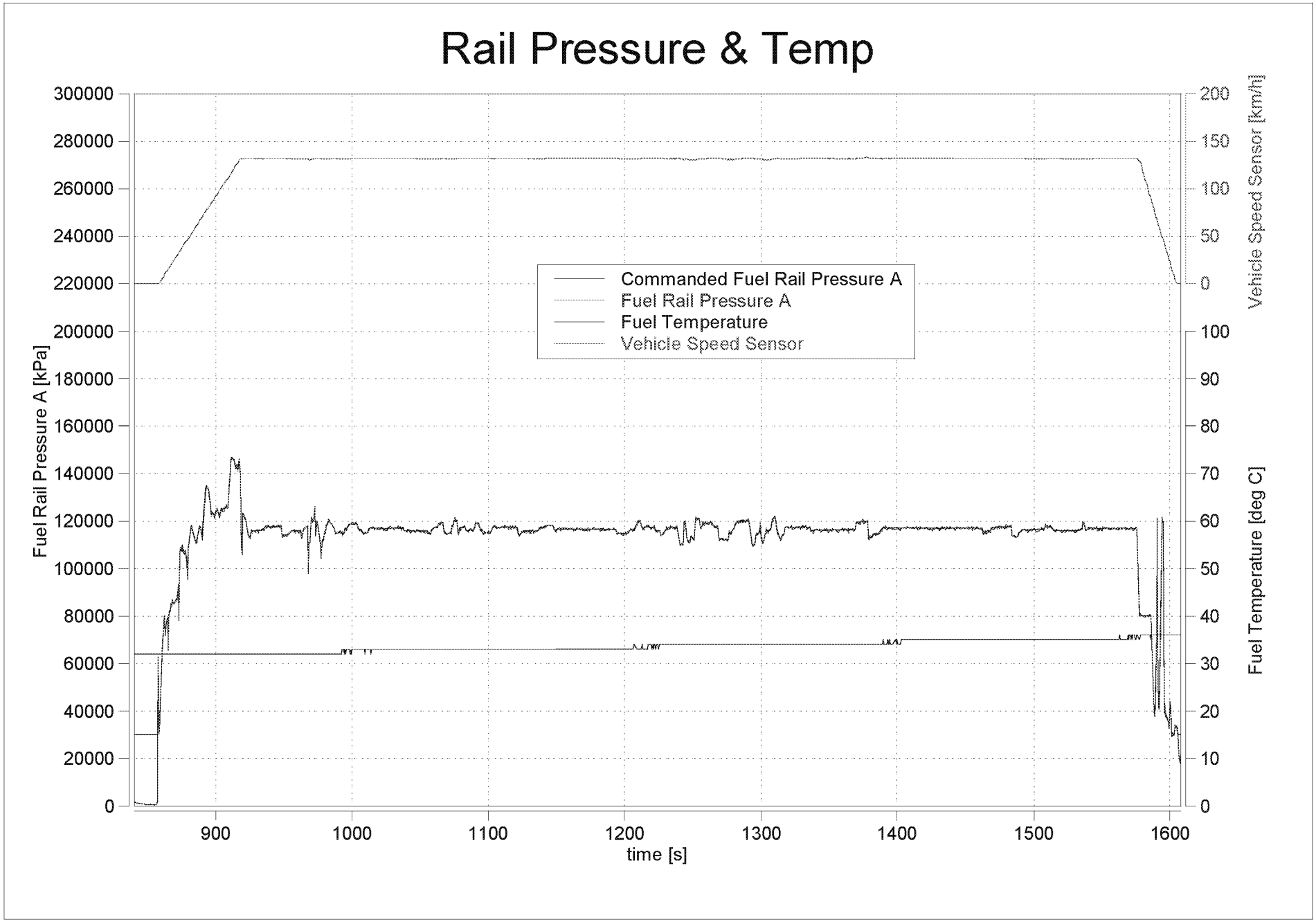

Air & Coolant Temps
Air Temps [°C] [deg C]
Vehicle Speed Sensor [km/h]
time [s]
CACT 1-1 - CAC Up
CACT 1-2 - CAC Down
Ambient Air Temperature
Engine Coolant Temperature
Vehicle Speed Sensor
225
210
195
180
165
150
135
120
105
90
75
60
45
30
15
0
200
150
100
50
0
900
1000
1100
1200
1300
1400
1500
1600

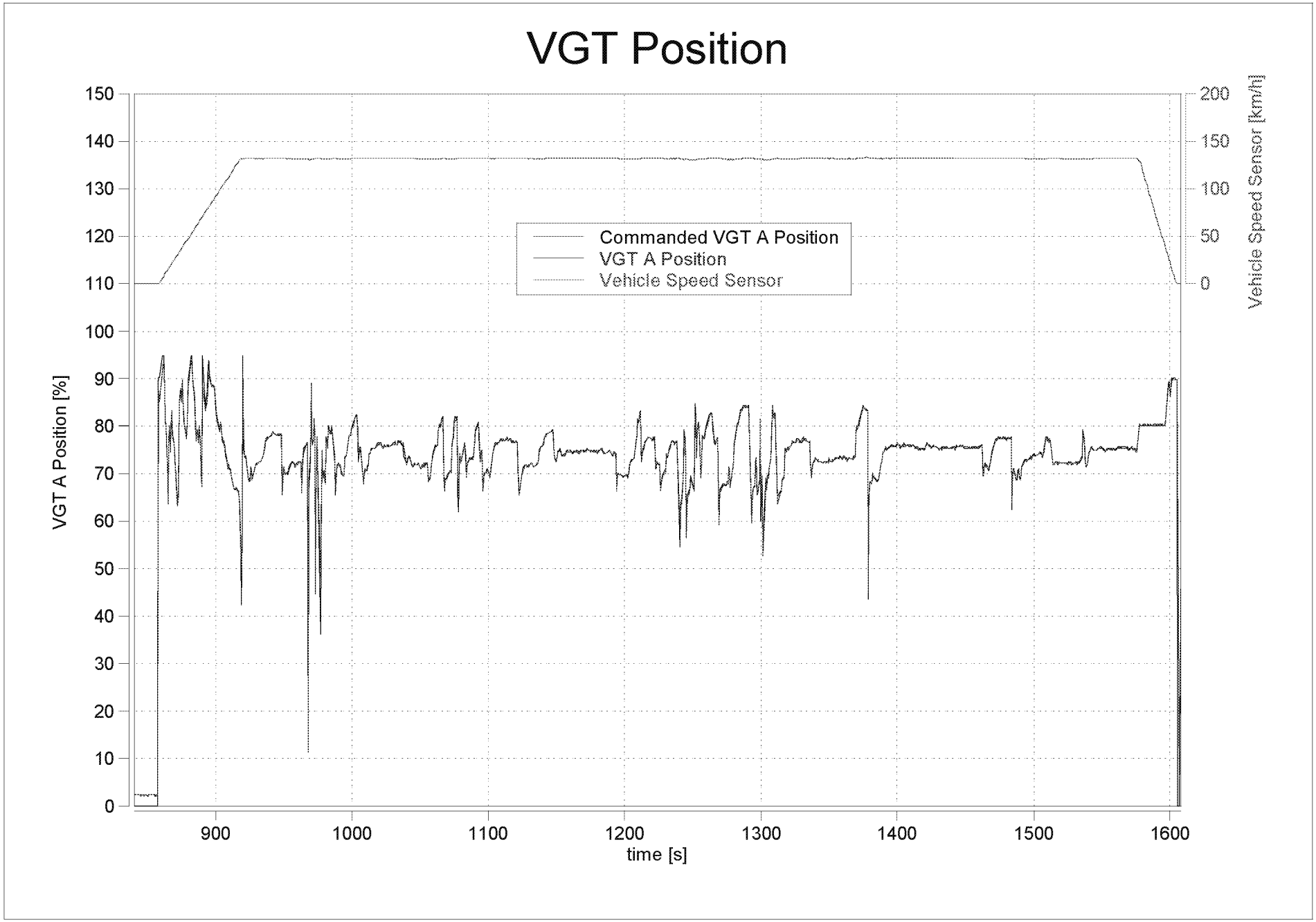

Air Pressure
Air Pressure [kPa]
Vehicle Speed Sensor [km/h]
time [s]
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
200
150
100
50
0
900
1000
1100
1200
1300
1400
1500
1600
Barometric Pressure
Intake Manifold Absolute Pressure Scaled
Vehicle Speed Sensor

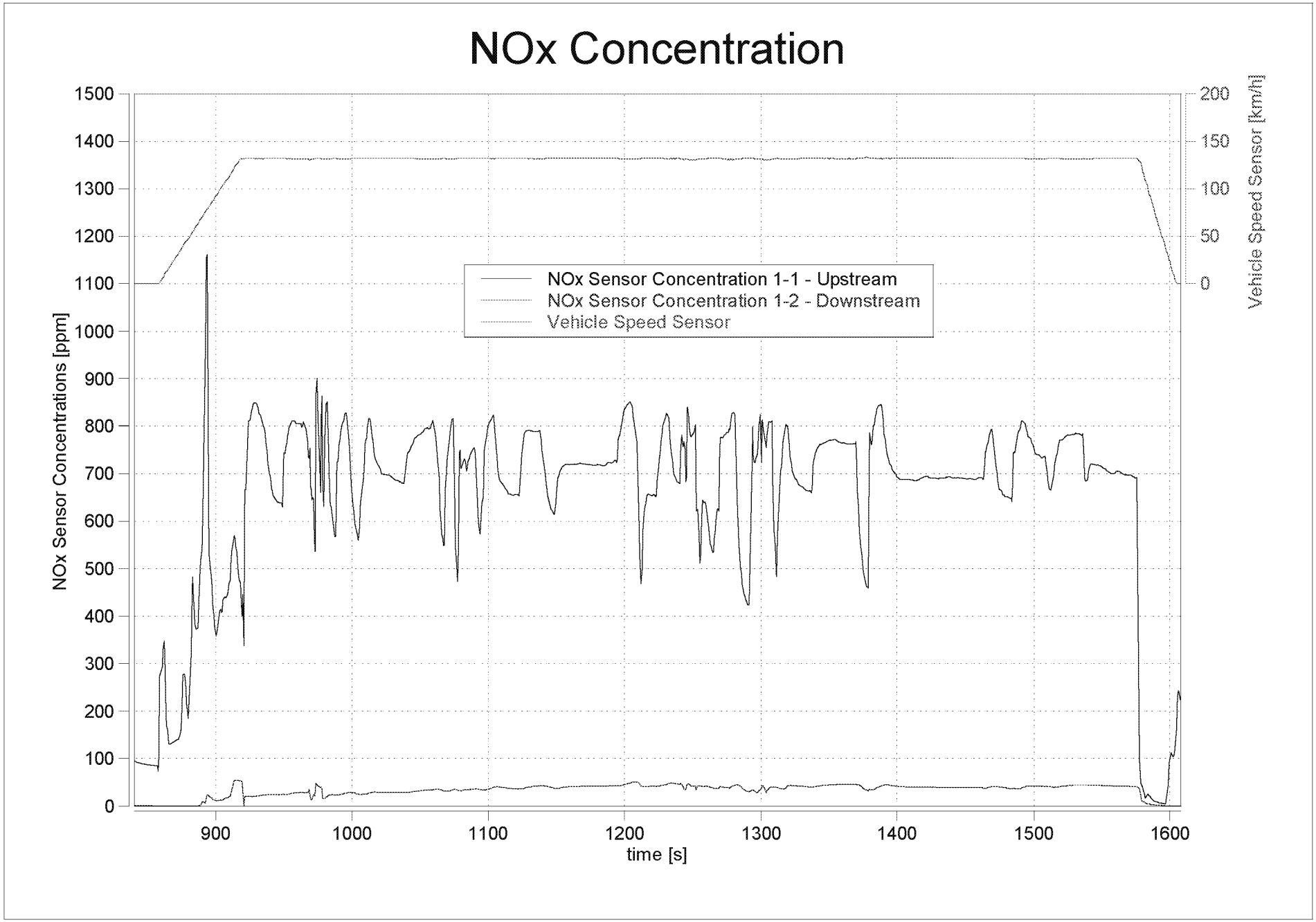

EGR Position
Commanded EGR A Duty Cycle/Posi_1
Actual EGR A Duty Cycle/Positio_1
Vehicle Speed Sensor
EGR Position [%]
Vehicle Speed Sensor [km/h]
time [s]
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
200
150
100
50
0
900
1000
1100
1200
1300
1400
1500
1600

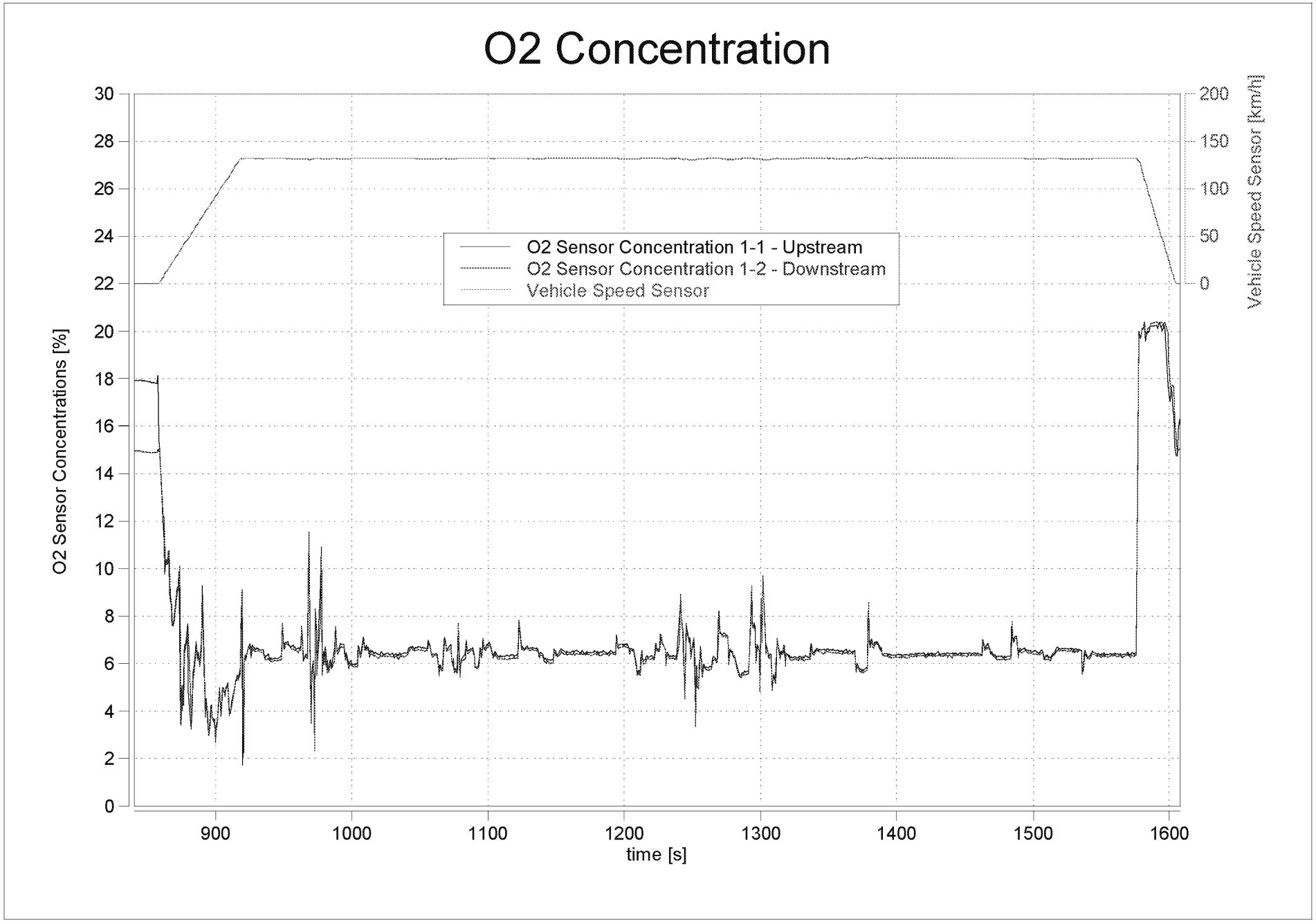

EGR Temps
Exhaust Gas Recirculation Temp [deg C]
Vehicle Speed Sensor [km/h]
time [s]
Exhaust Gas Recirculation Temp _1 - Upstream
Exhaust Gas Recirculation Temp _3 - Downstream
Vehicle Speed Sensor
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
200
150
100
50
0
900
1000
1100
1200
1300
1400
1500
1600


Exh Gas Temps
Exhaust Gas Temps [deg C]
Vehicle Speed Sensor [km/h]
time [s]
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
200
150
100
50
0
900
1000
1100
1200
1300
1400
1500
1600
EGT 1-1 - Btwn Turbo & DOC
EGT 1-2 - Btwn DOC & DPF
EGT 1-3 - Btwn DPF & SCR
Vehicle Speed Sensor

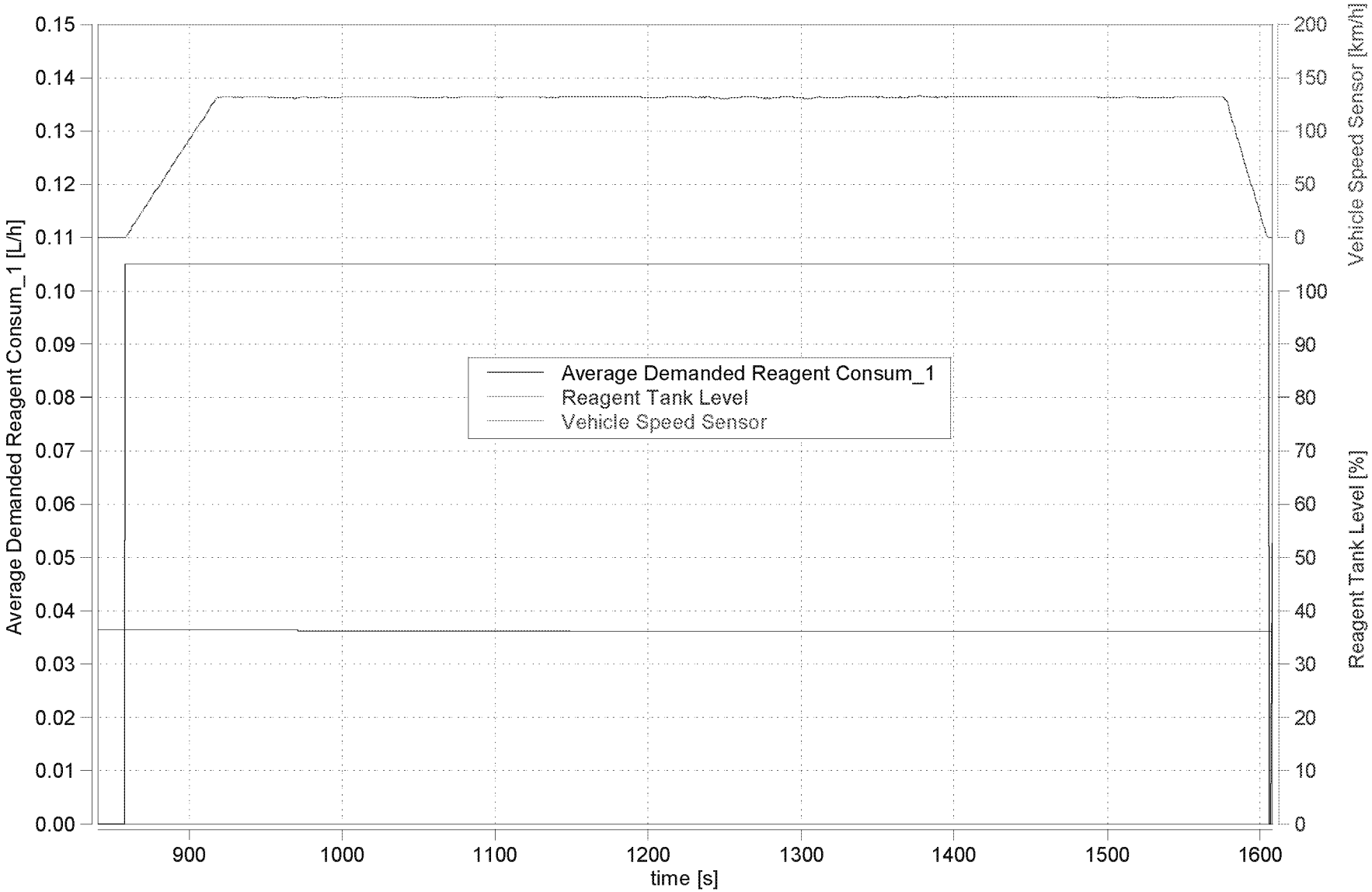

Rail Pressure & Temp
Commanded Fuel Rail Pressure A
Fuel Rail Pressure A
Fuel Temperature
Vehicle Speed Sensor
Fuel Rail Pressure A [kPa]
Vehicle Speed Sensor [km/h]
Fuel Temperature [deg C]
time [s]
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
200
150
100
50
0
100
90
80
70
60
50
40
30
20
10
0
900
1000
1100
1200
1300
1400
1500
1600

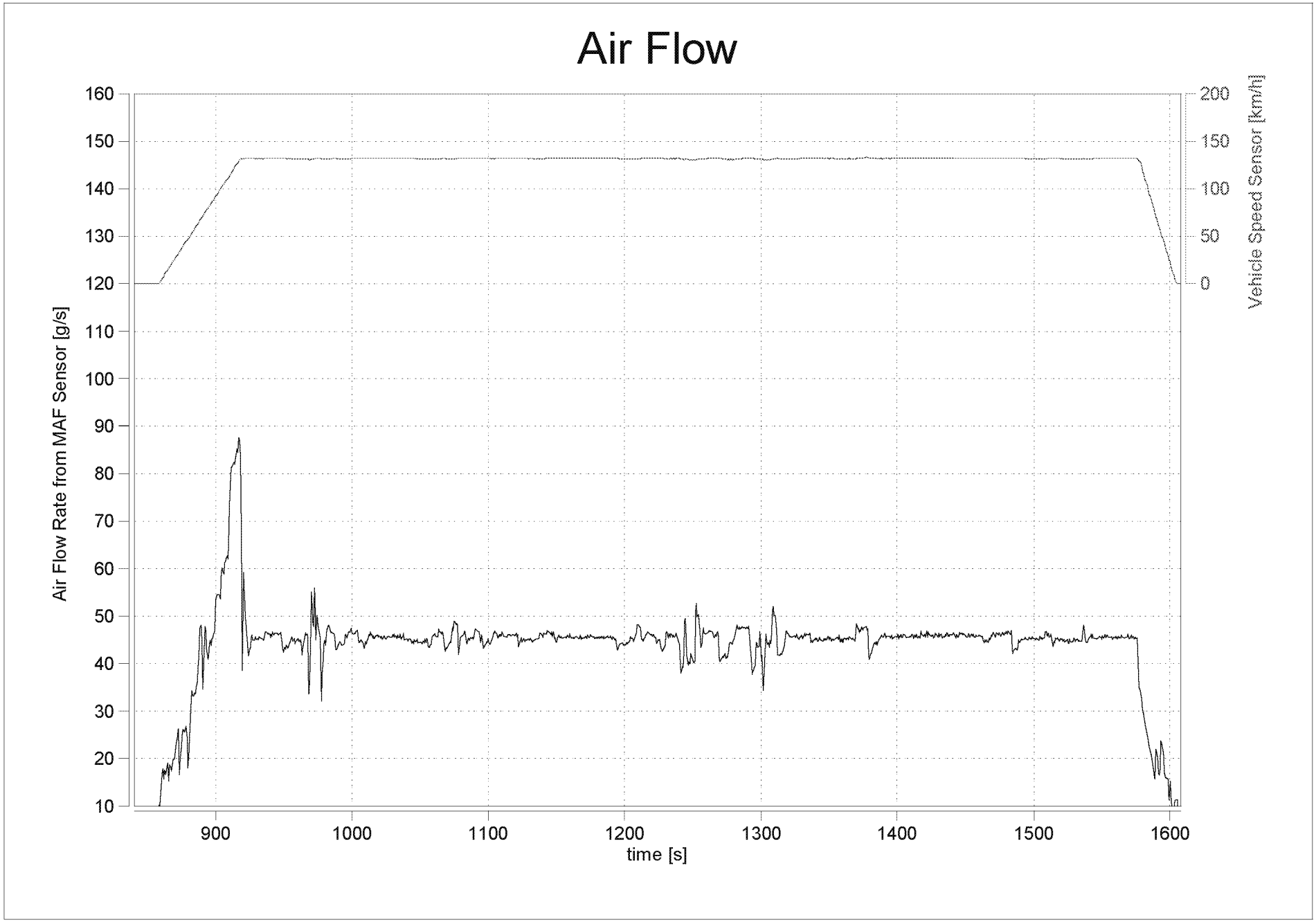

VGT Position
Commanded VGT A Position
VGT A Position
Vehicle Speed Sensor
VGT A Position [%]
Vehicle Speed Sensor [km/h]
time [s]
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
200
150
100
50
0
900
1000
1100
1200
1300
1400
1500
1600

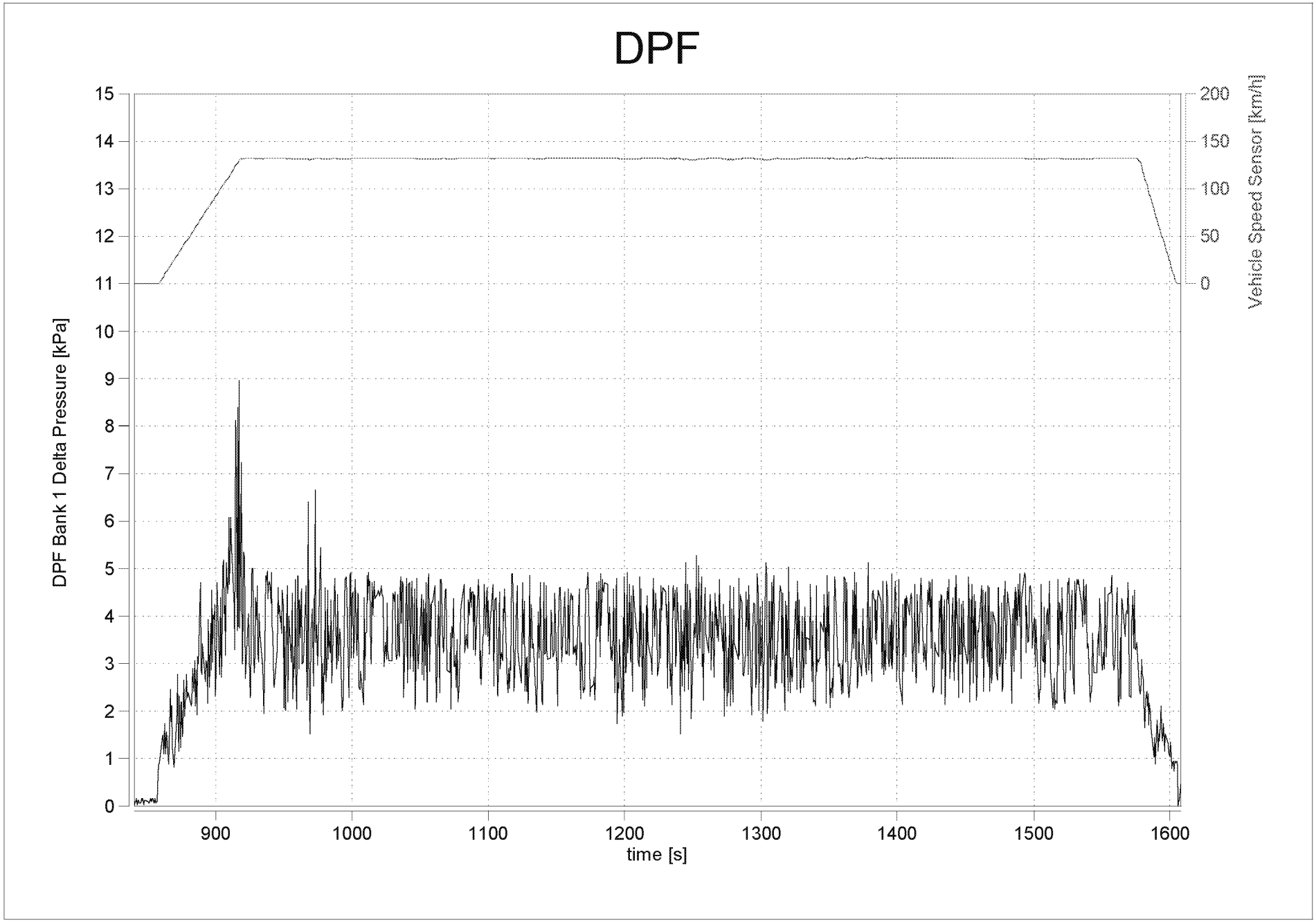

NOx Concentration
NOx Sensor Concentrations [ppm]
Vehicle Speed Sensor [km/h]
time [s]
NOx Sensor Concentration 1-1 - Upstream
NOx Sensor Concentration 1-2 - Downstream
Vehicle Speed Sensor
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
0
50
100
150
200
900
1000
1100
1200
1300
1400
1500
1600


O2 Concentration
O2 Sensor Concentrations [%]
Vehicle Speed Sensor [km/h]
time [s]
O2 Sensor Concentration 1-1 - Upstream
O2 Sensor Concentration 1-2 - Downstream
Vehicle Speed Sensor
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
0
50
100
150
200
900
1000
1100
1200
1300
1400
1500
1600

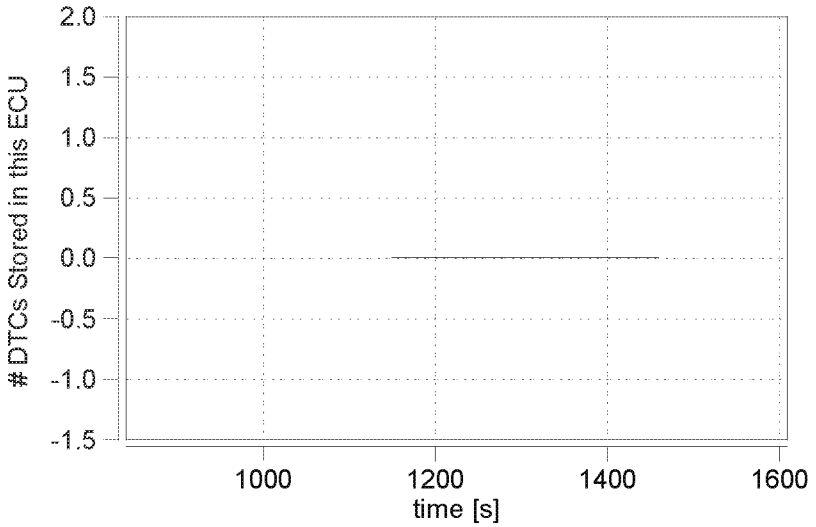
DEF

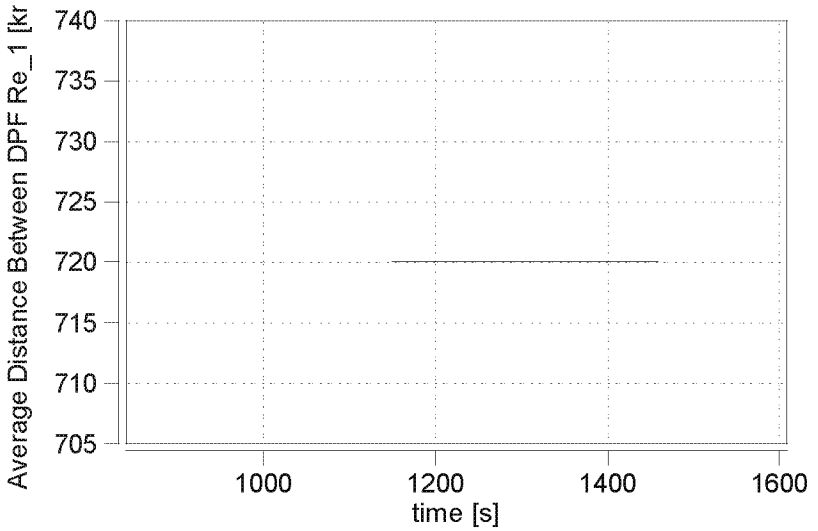

Average Demanded Reagent Consum_1 [L/h]
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Vehicle Speed Sensor [km/h]
200
150
100
50
0
Reagent Tank Level [%]
100
90
80
70
60
50
40
30
20
10
0
Average Demanded Reagent Consum_1
Reagent Tank Level
Vehicle Speed Sensor
900
1000
1100
1200
1300
1400
1500
1600
time [s]

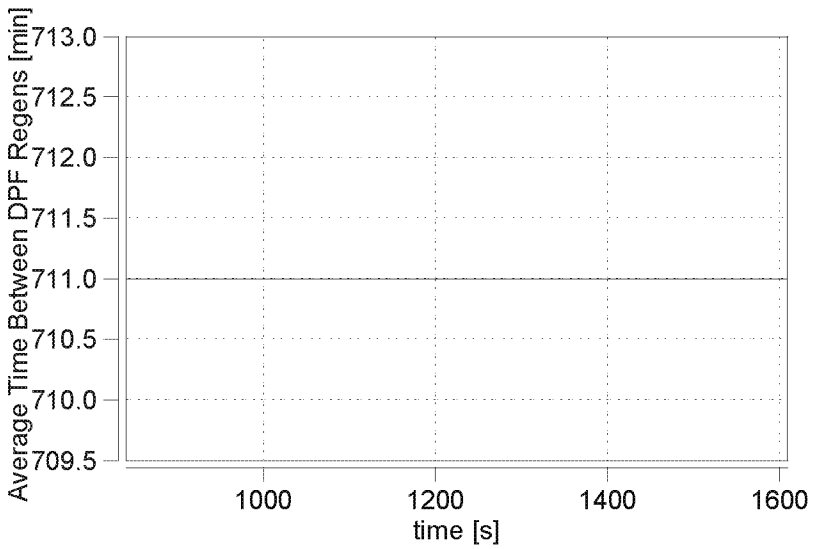

Air Flow
Air Flow Rate from MAF Sensor [g/s]
Vehicle Speed Sensor [km/h]
time [s]
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
200
150
100
50
0
900
1000
1100
1200
1300
1400
1500
1600


DPF
DPF Bank 1 Delta Pressure [kPa]
Vehicle Speed Sensor [km/h]
time [s]
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
0
50
100
150
200
900
1000
1100
1200
1300
1400
1500
1600

General


DTCs Stored in this ECU
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
1000
1200
1400
1600
time [s]


Average Distance Between DPF Re_1 [kr
740
735
730
725
720
715
710
705
1000
1200
1400
1600
time [s]


Average Time Between DPF Regens [min]
713.0
712.5
712.0
711.5
711.0
710.5
710.0
709.5
1000
1200
1400
1600
time [s]