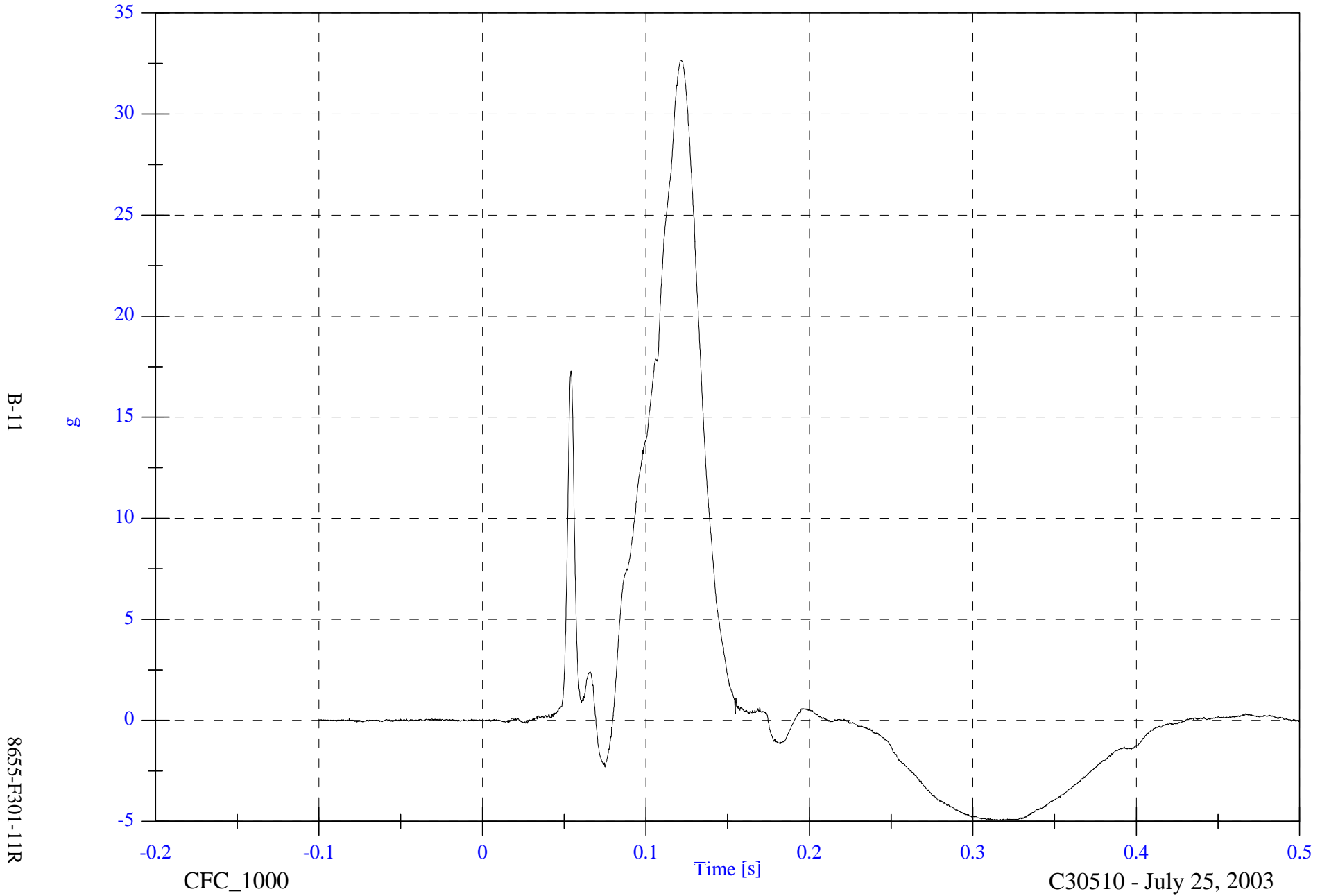


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Head x

Max: 32.7 [g] at 0.121 [s]

Min: -4.9 [g] at 0.318 [s]



B-11

8655-F301-11R

CFC\_1000

Time [s]

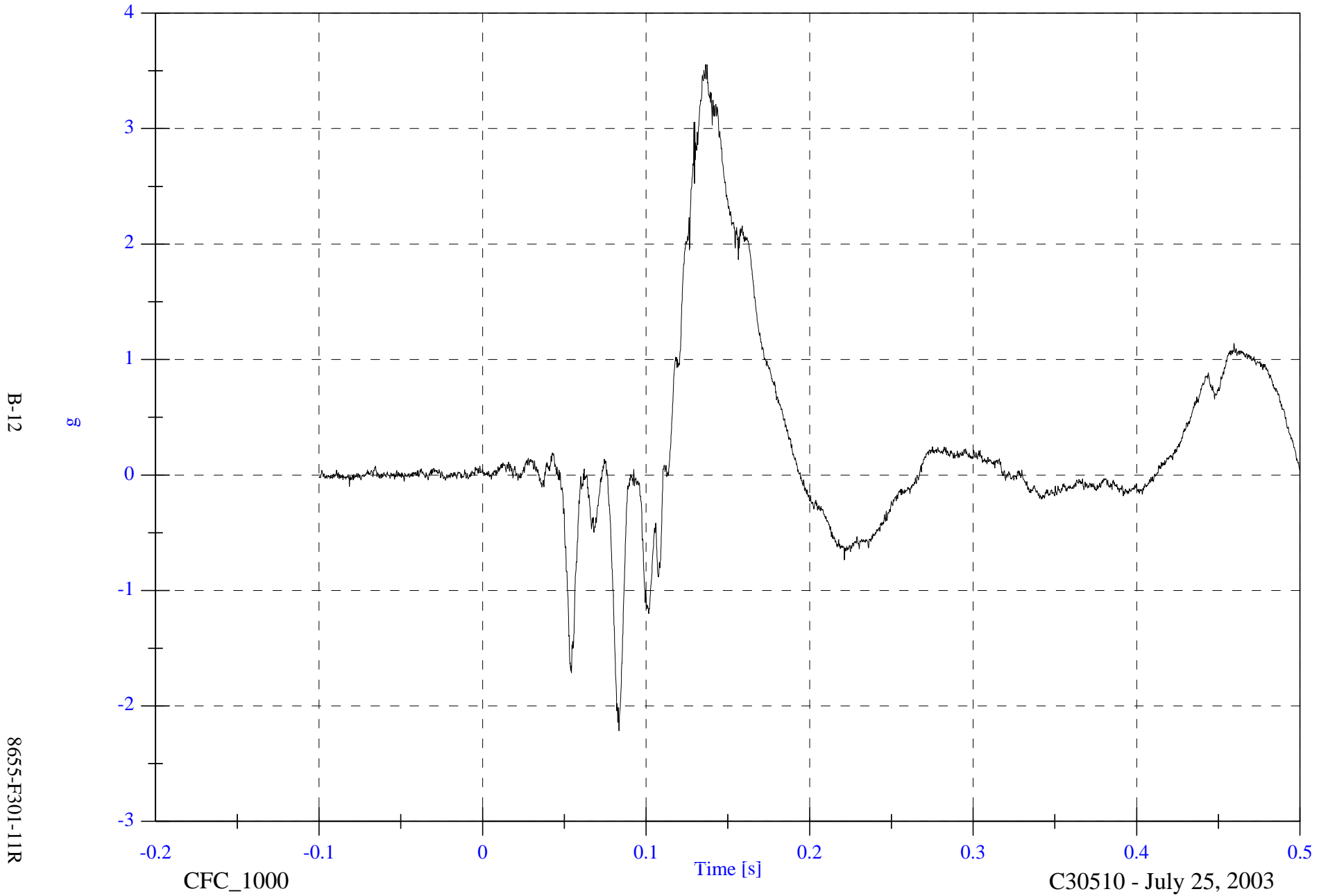
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Head y

Max: 3.6 [g] at 0.137 [s]

Min: -2.2 [g] at 0.083 [s]

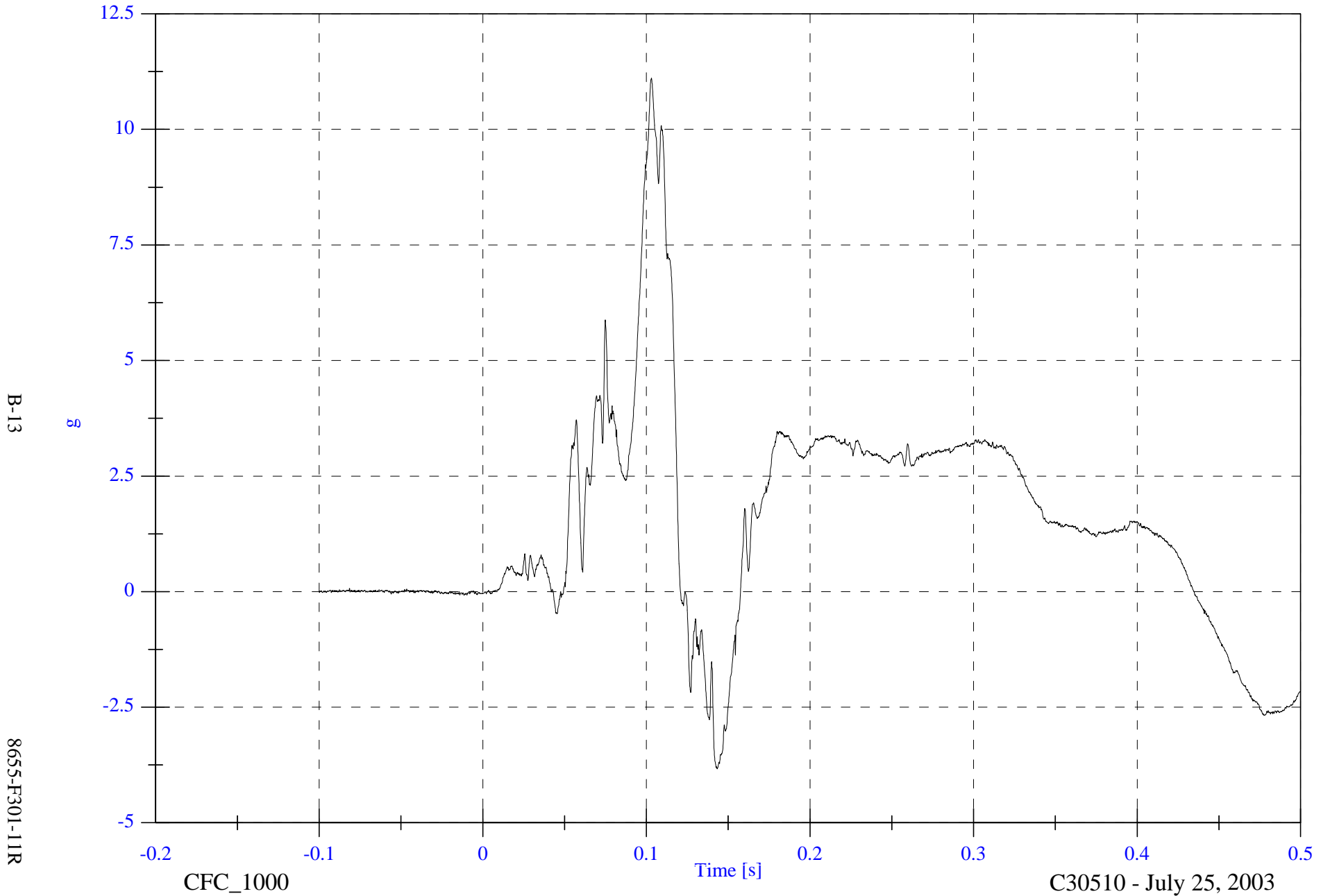


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 11.1 [g] at 0.103 [s]

Min: -3.8 [g] at 0.143 [s]

V2P1 Head z



B-13

8655-F301-11R

CFC\_1000

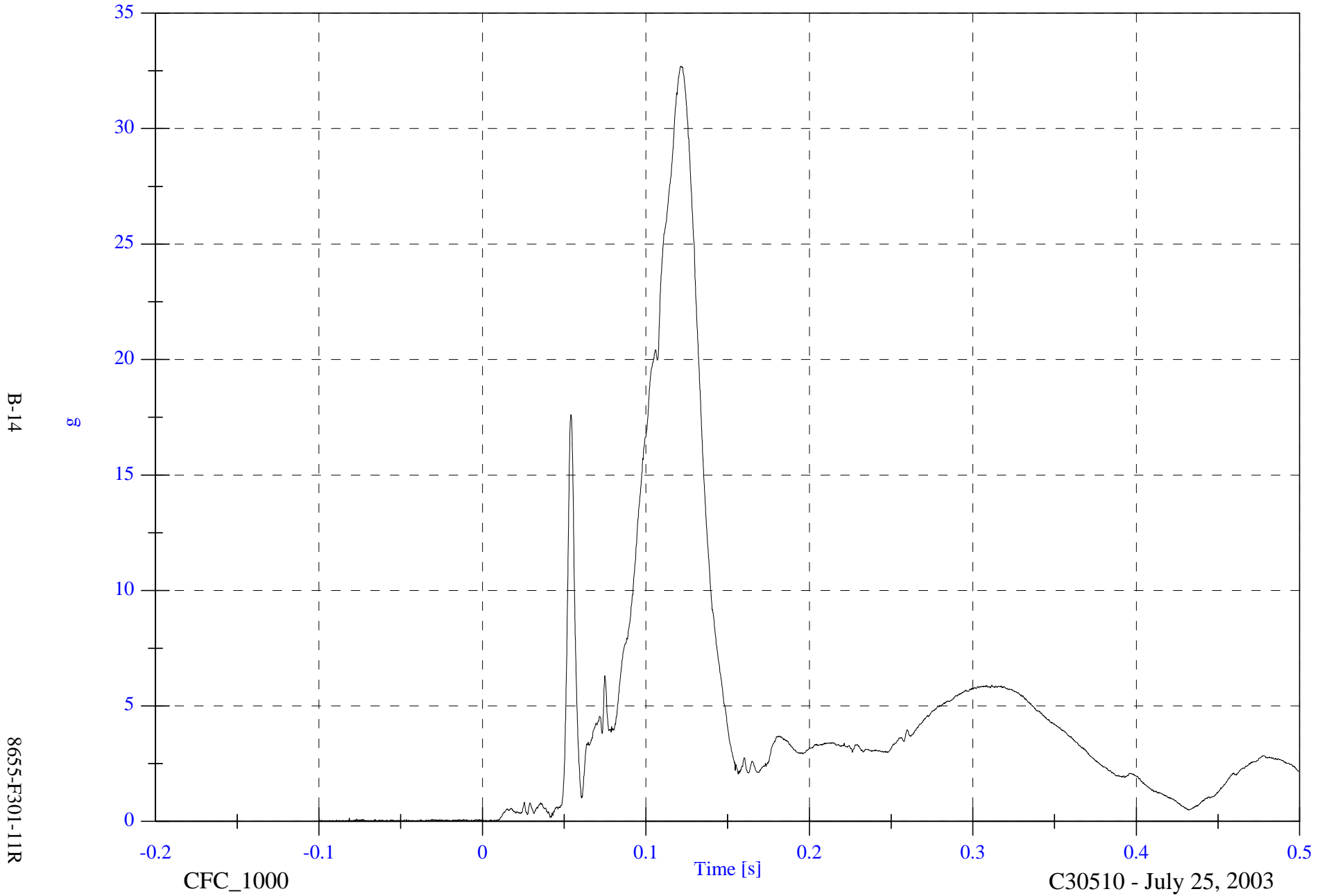
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 32.7 [g] at 0.121 [s]

Min: 0.0 [g] at -0.047 [s]

### V2P1 Head Resultant

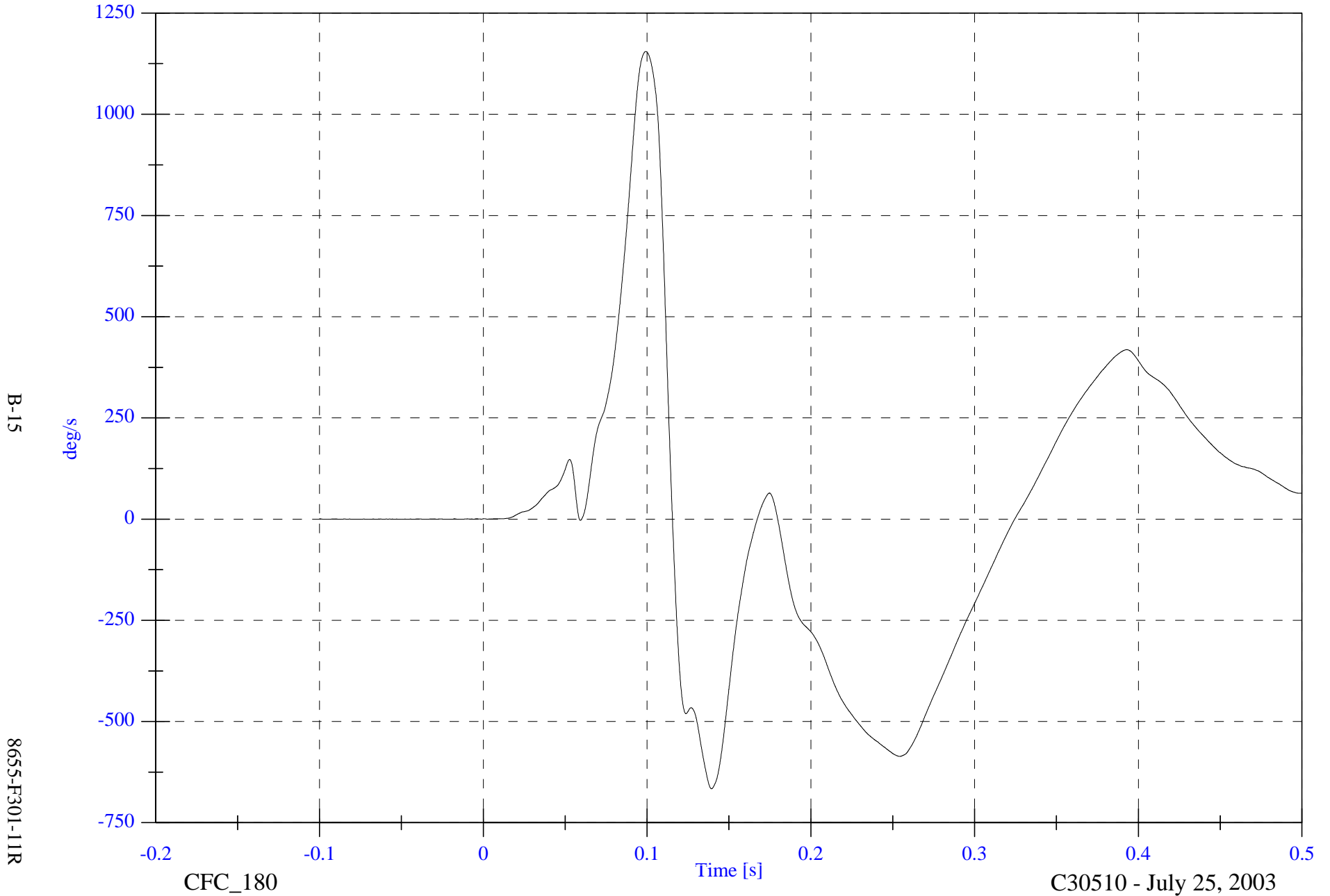


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 1155.1 [deg/s] at 0.099 [s]

Min: -666.3 [deg/s] at 0.139 [s]

### V2P1 Head Rotation AVy



B-15

8655-F301-11R

CFC\_180

Time [s]

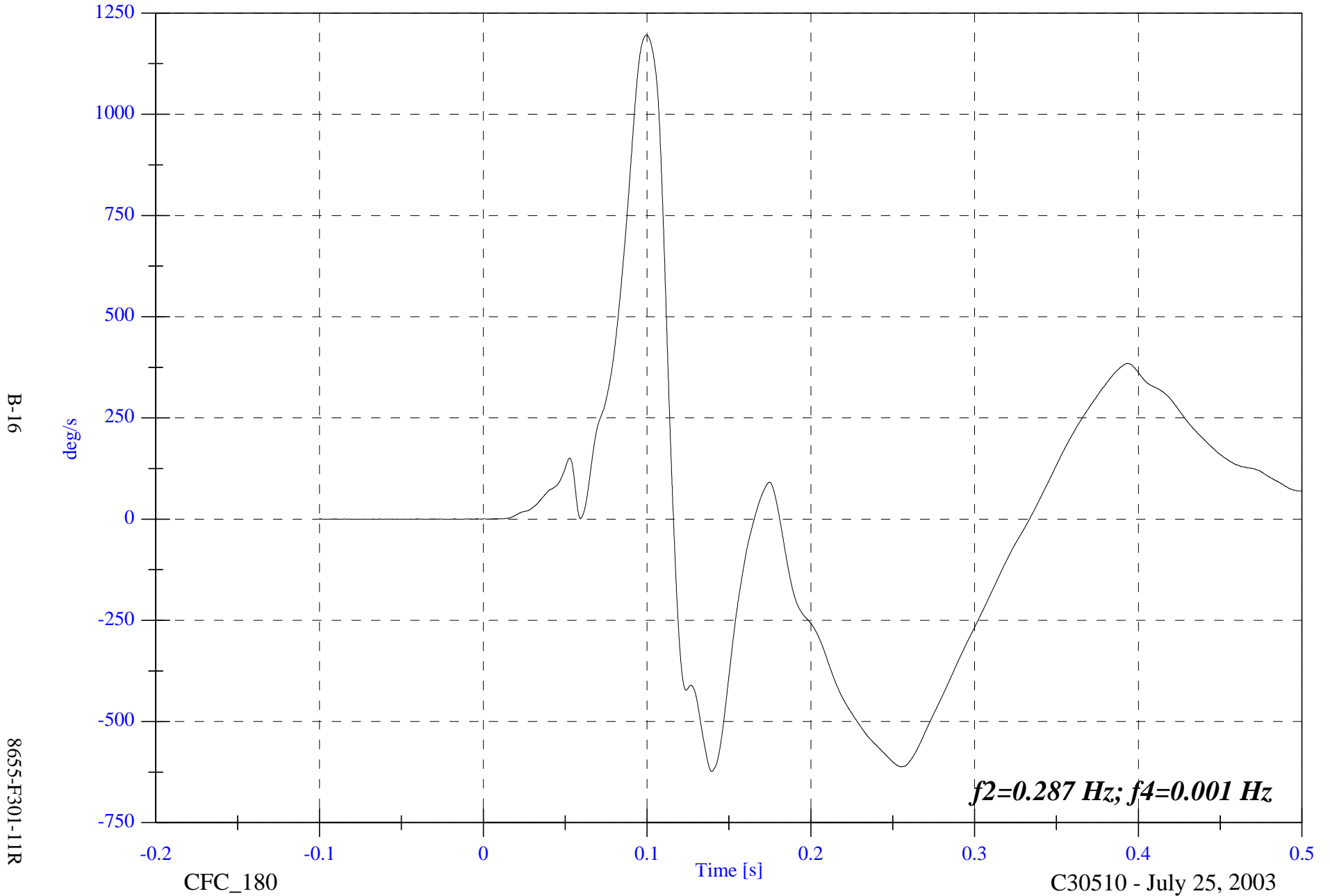
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Head Comp Rotation AVy

Max: 1195.6 [deg/s] at 0.100 [s]

Min: -623.5 [deg/s] at 0.139 [s]



B-16

8655-F301-11R

CFC\_180

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

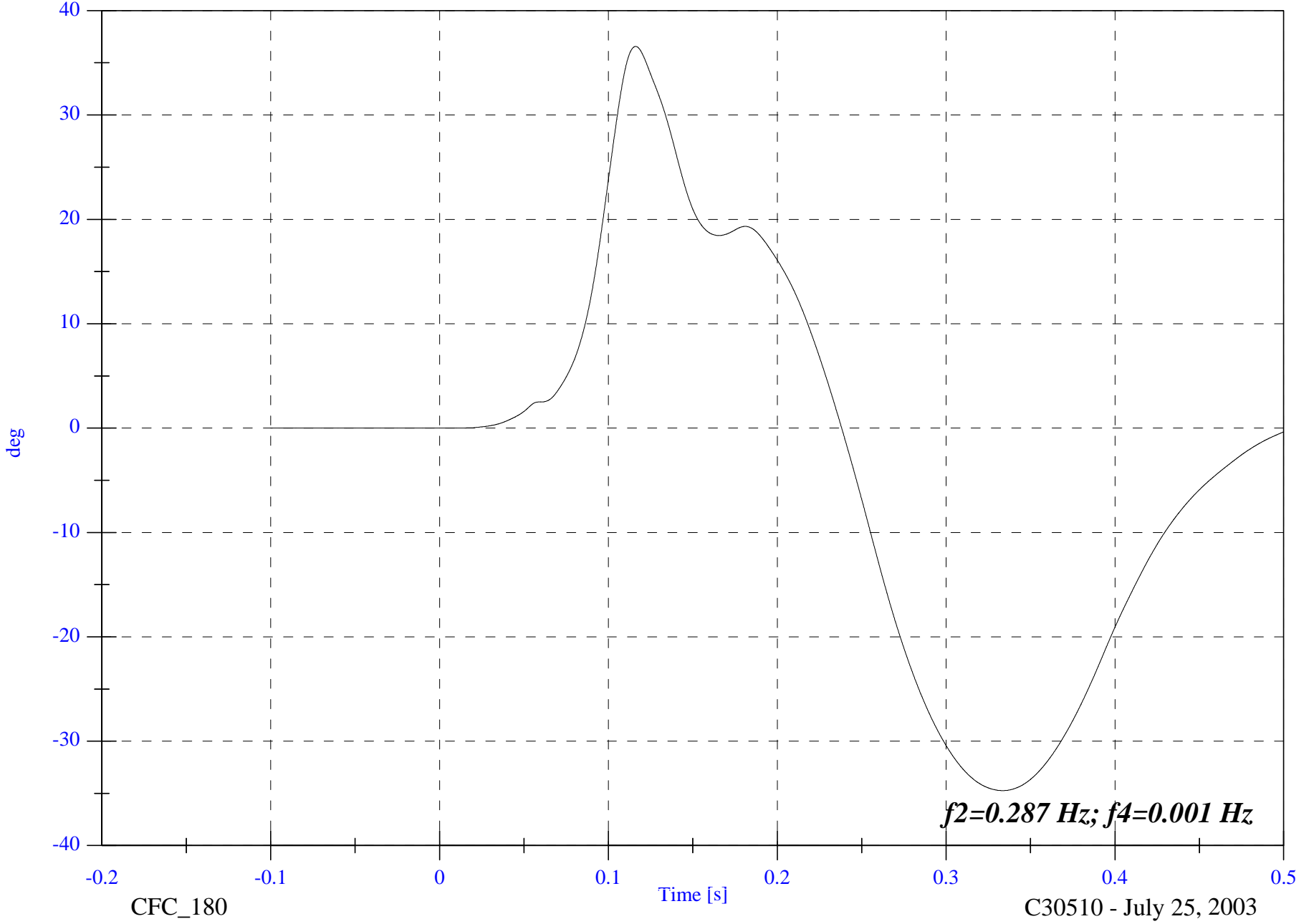
V2P1 Head Comp Rotation ADy

Max: 36.6 [deg] at 0.116 [s]

Min: -34.7 [deg] at 0.334 [s]

B-17

8655-F301-11R



CFC\_180

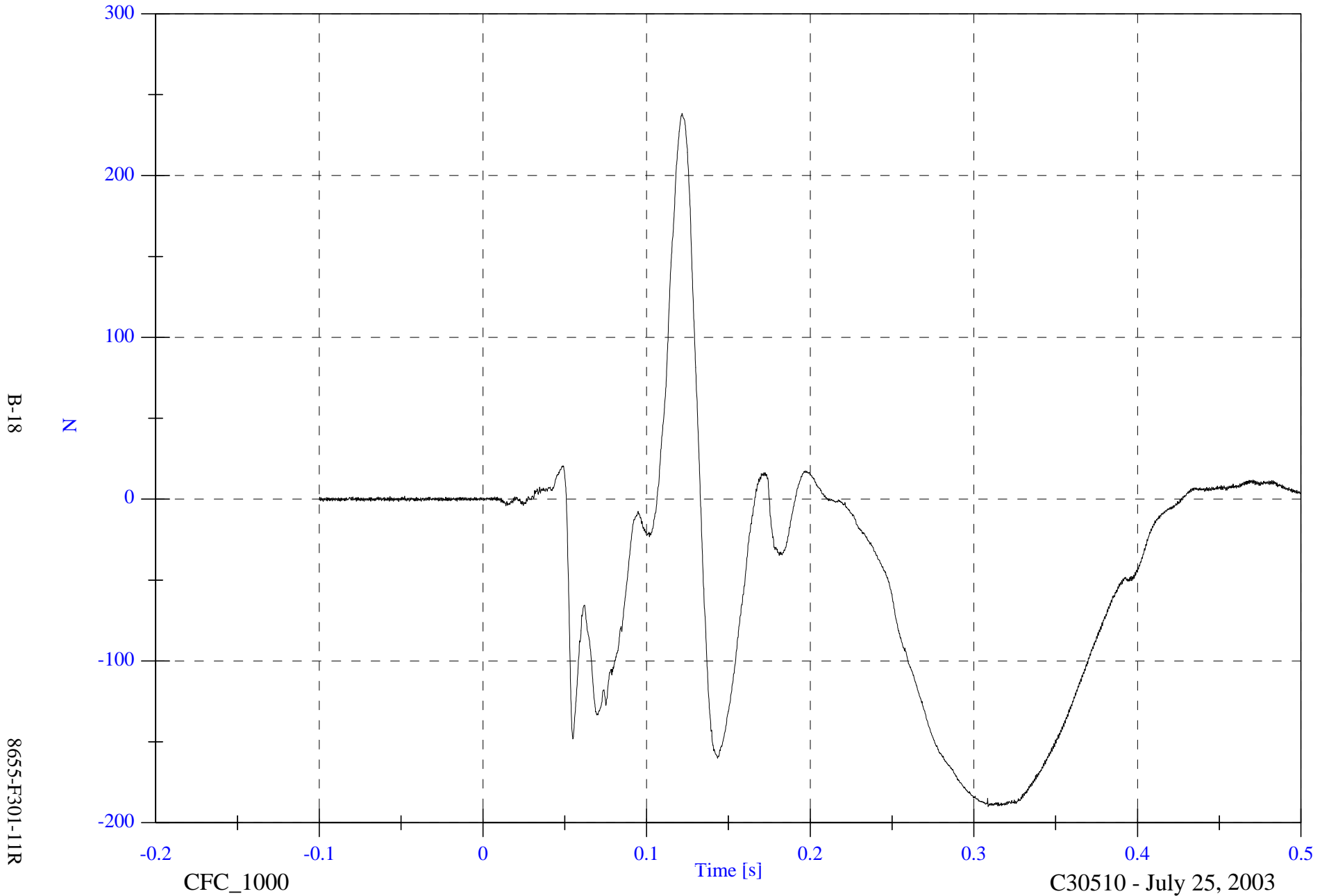
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 238.4 [N] at 0.122 [s]

Min: -190.1 [N] at 0.309 [s]

V2P1 Upper Neck Fx

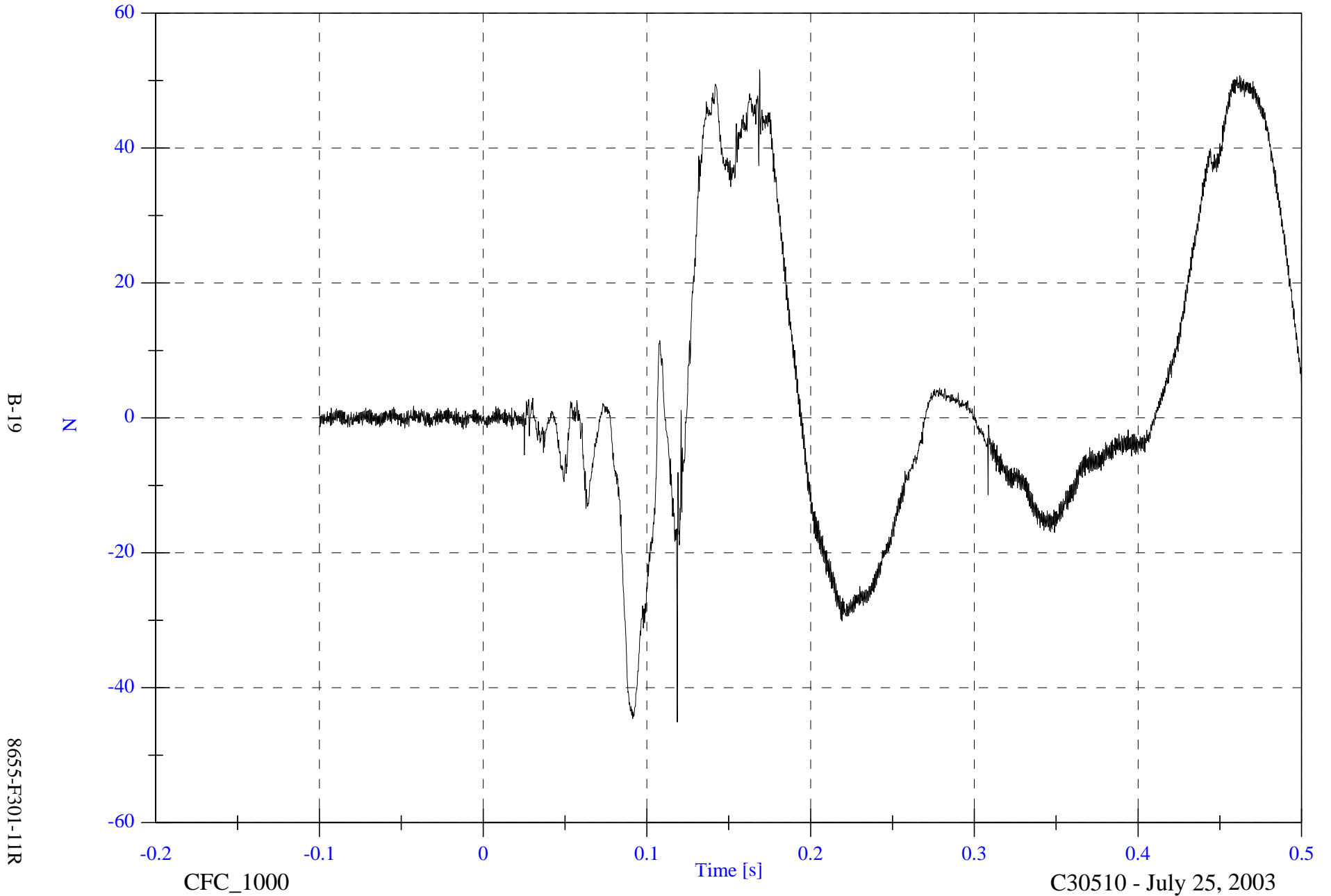


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 51.6 [N] at 0.169 [s]

Min: -45.1 [N] at 0.119 [s]

V2P1 Upper Neck Fy



B-19

8655-F301-11R

CFC\_1000

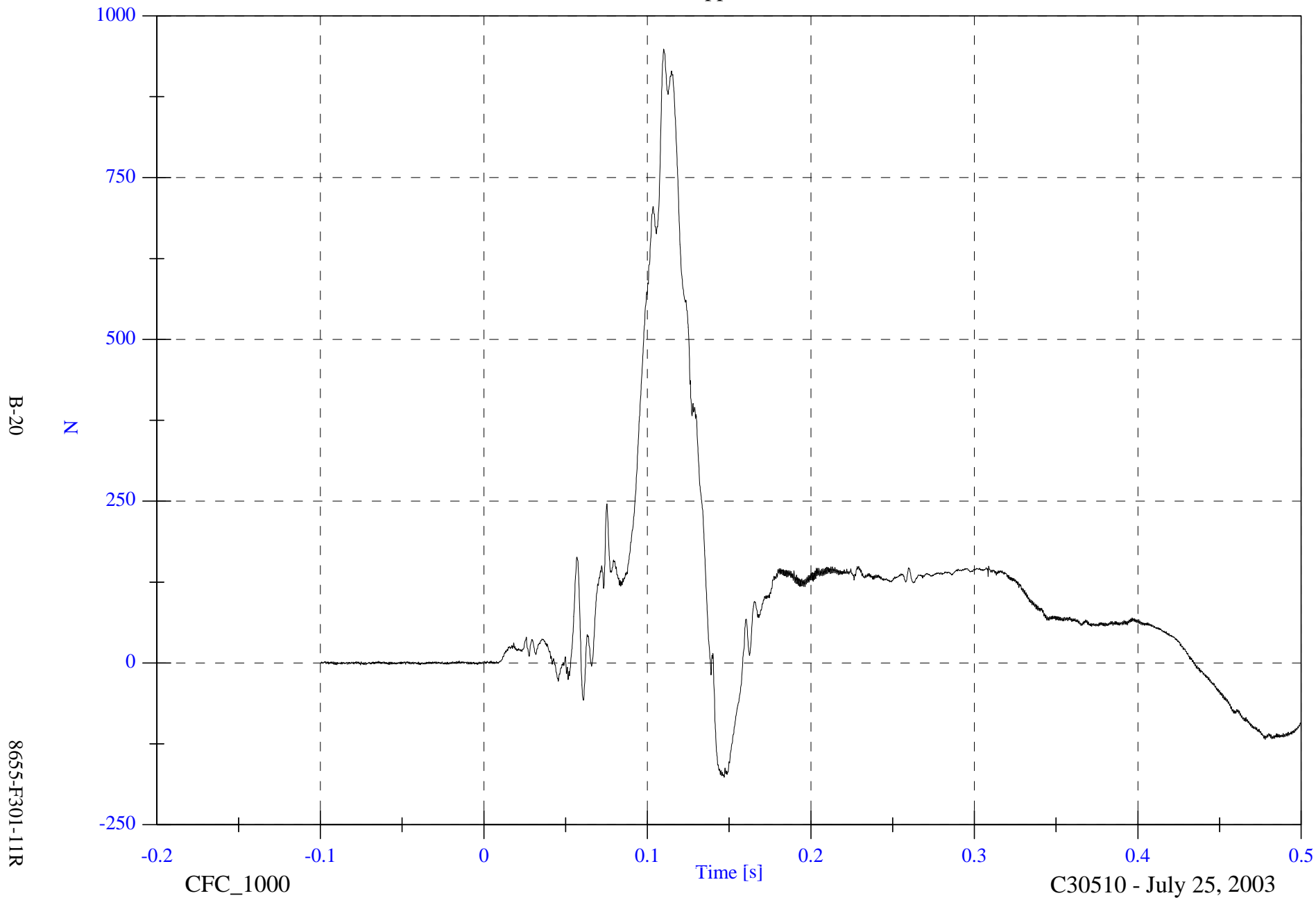
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 948.2 [N] at 0.110 [s]

Min: -176.8 [N] at 0.147 [s]

V2P1 Upper Neck Fz



B-20

8655-F301-11R

CFC\_1000

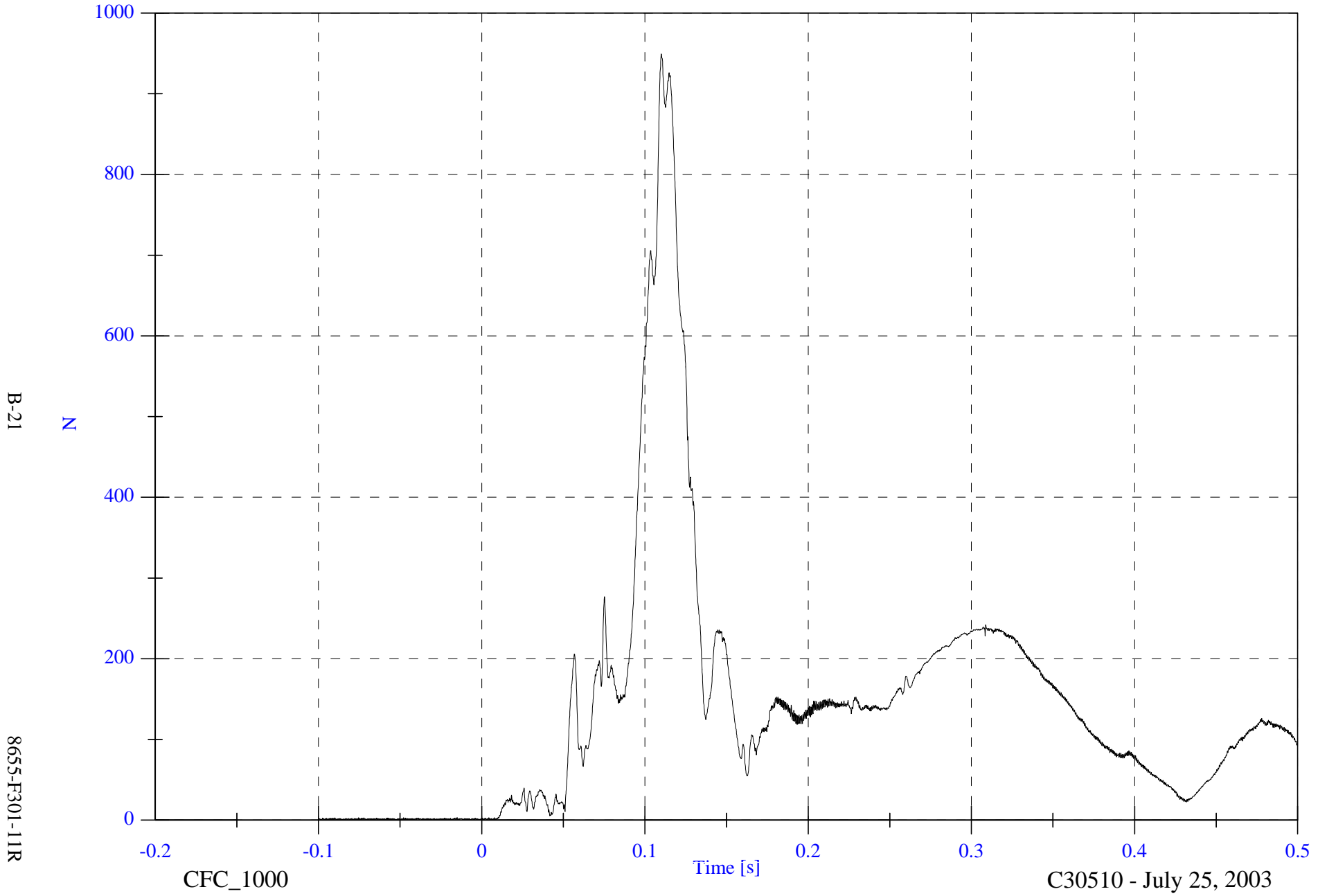
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 949.3 [N] at 0.110 [s]

V2P1 Upper Neck F Resultant

Min: 0.2 [N] at -0.051 [s]



B-21

8655-F301-11R

CFC\_1000

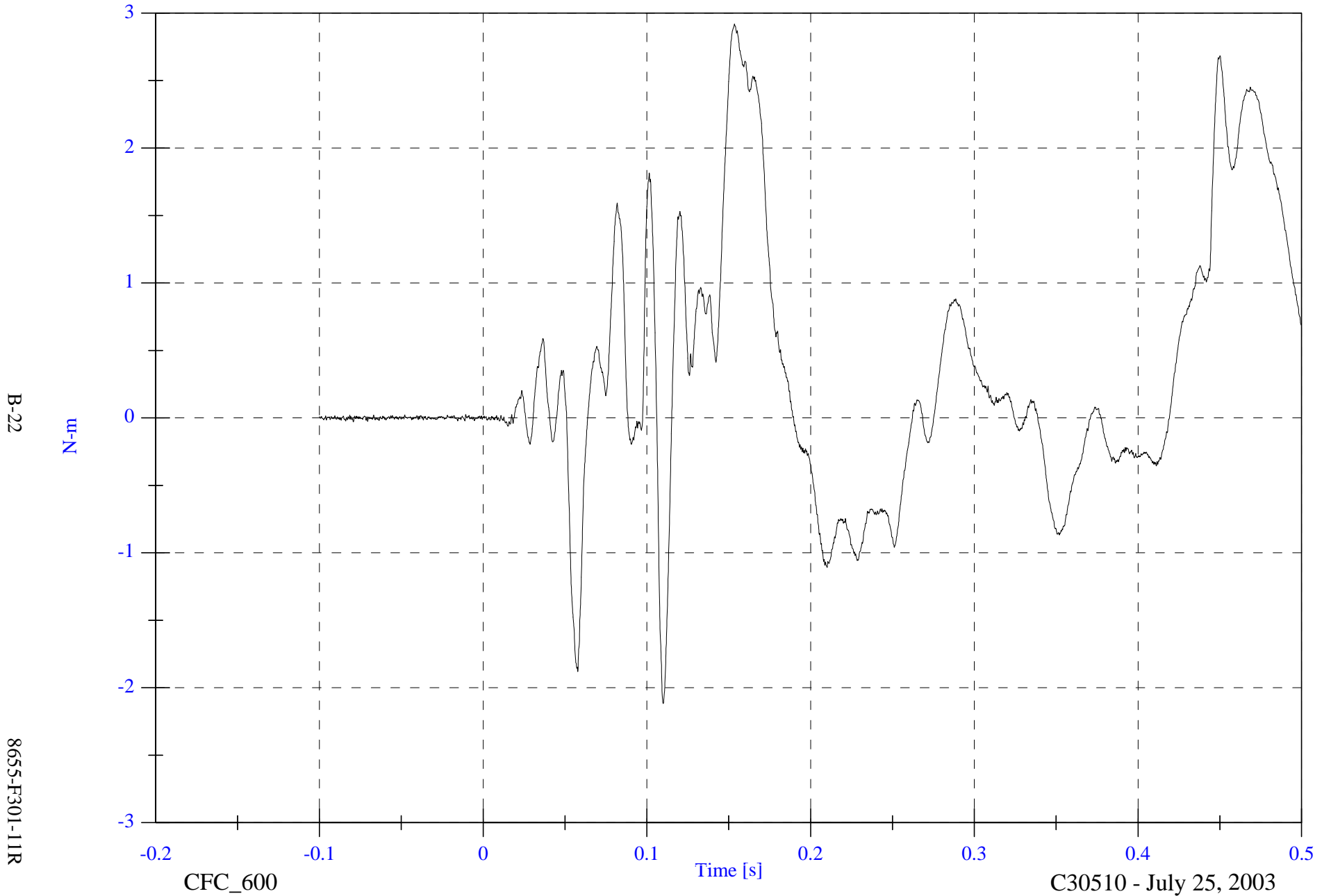
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 2.9 [N-m] at 0.153 [s]

Min: -2.1 [N-m] at 0.110 [s]

V2P1 Upper Neck Mx



B-22

8655-F301-11R

CFC\_600

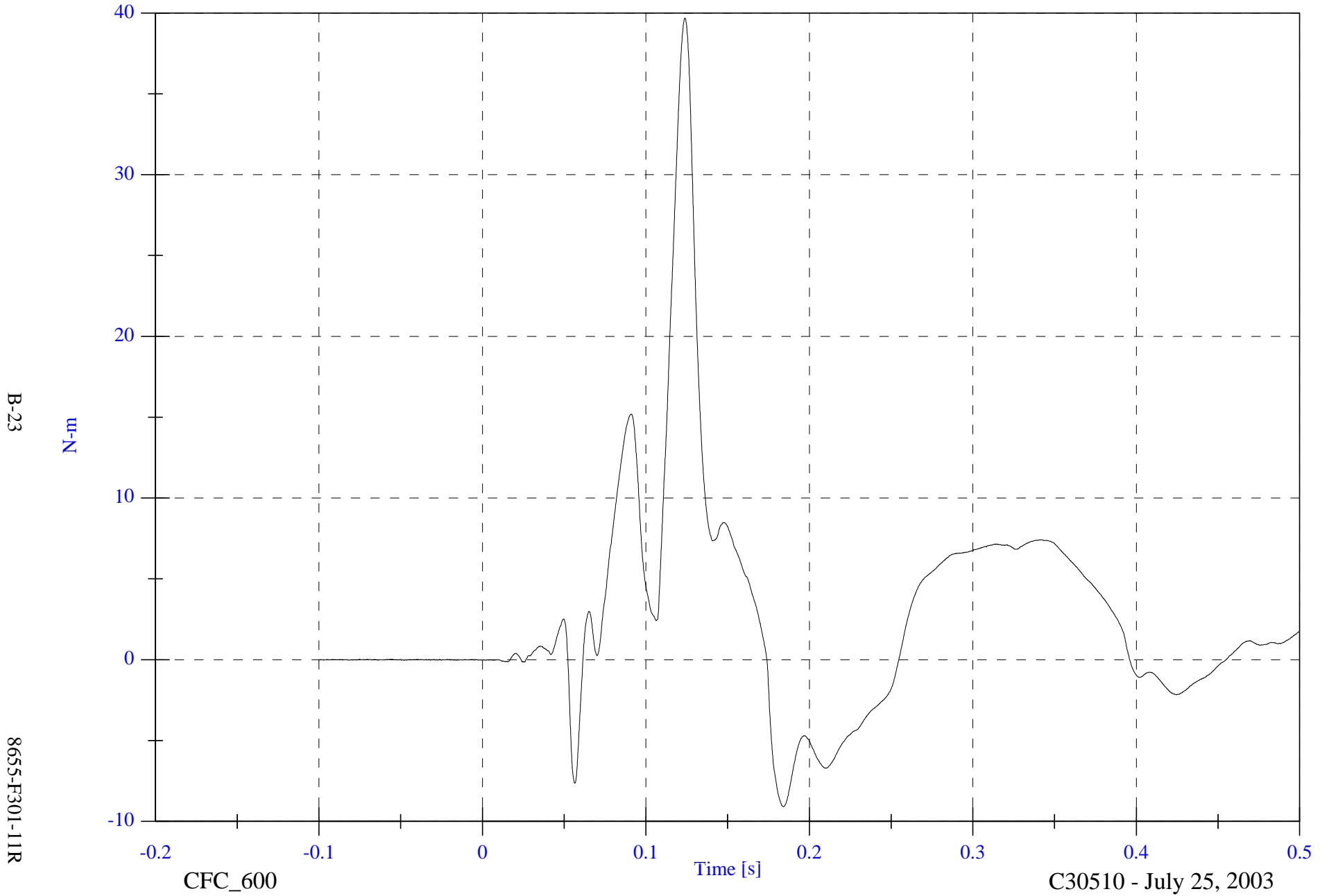
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 39.7 [N-m] at 0.124 [s]

Min: -9.1 [N-m] at 0.184 [s]

V2P1 Upper Neck My



B-23

8655-F301-11R

CFC\_600

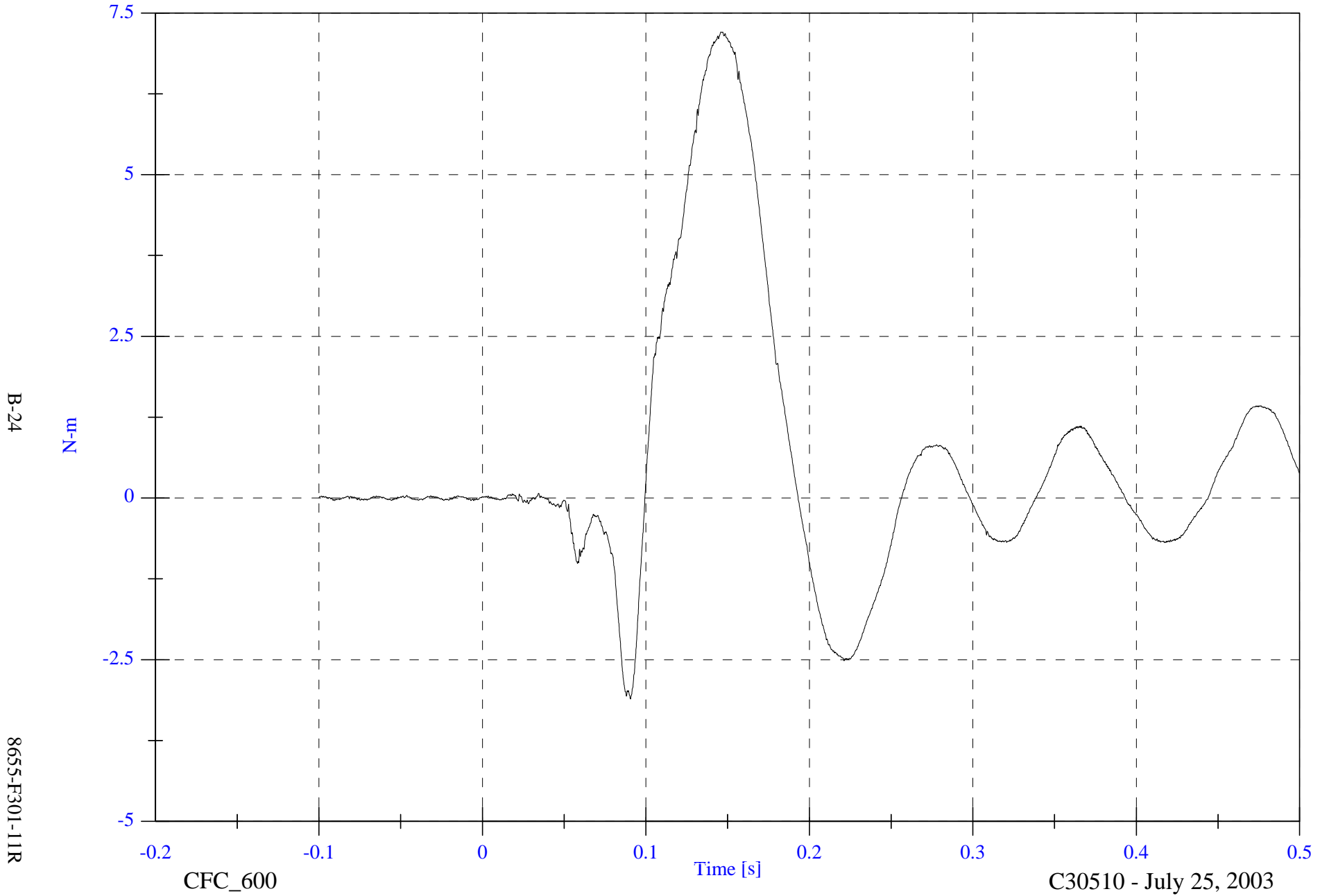
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 7.2 [N-m] at 0.146 [s]

Min: -3.1 [N-m] at 0.091 [s]

V2P1 Upper Neck Mz



2003 FMVSS 301 Test 2 2003 Saab 9-3

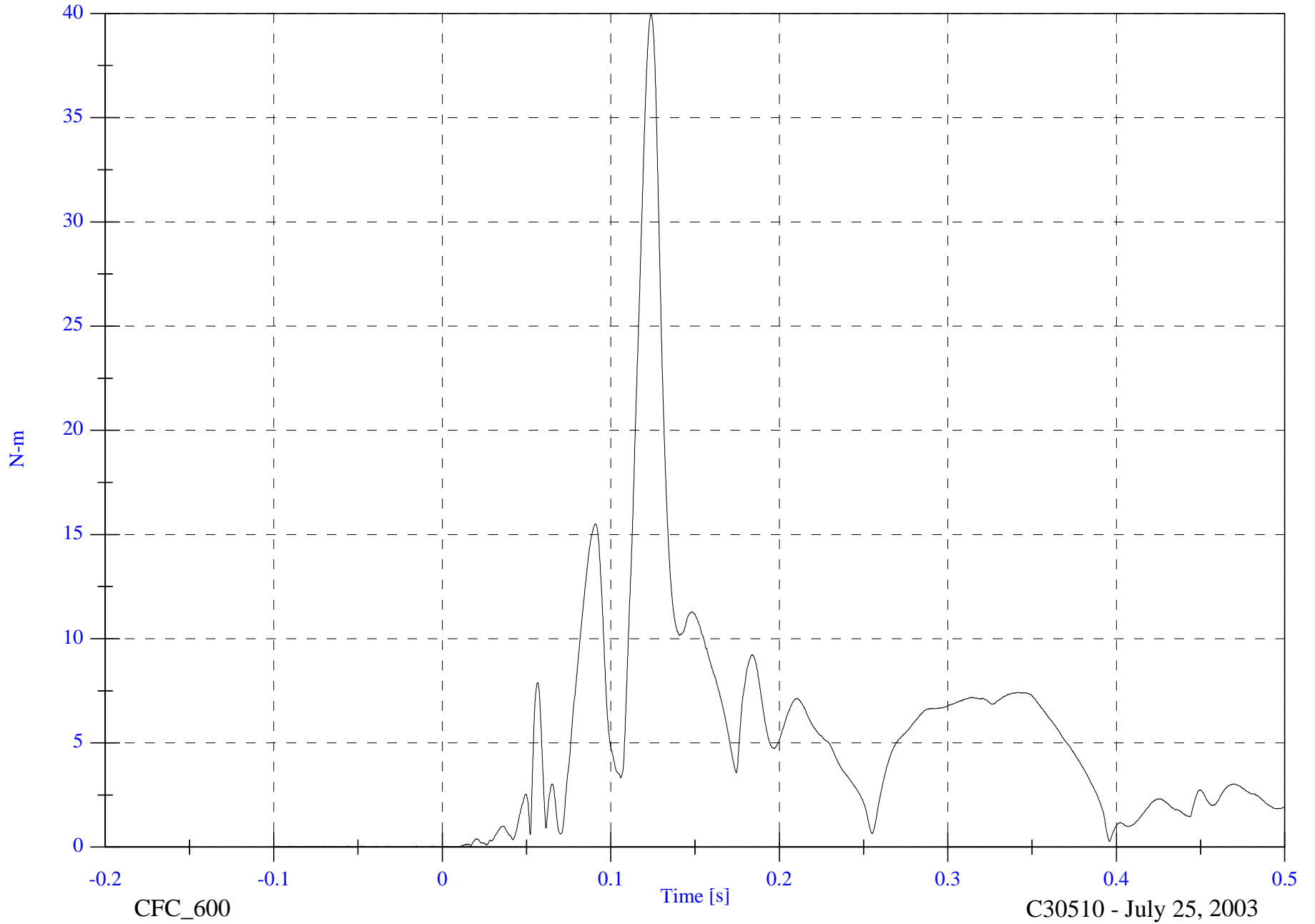
V2P1 Upper Neck M Resultant

Max: 40.0 [N-m] at 0.124 [s]

Min: 0.0 [N-m] at -0.093 [s]

B-25

8655-F301-11R



CFC\_600

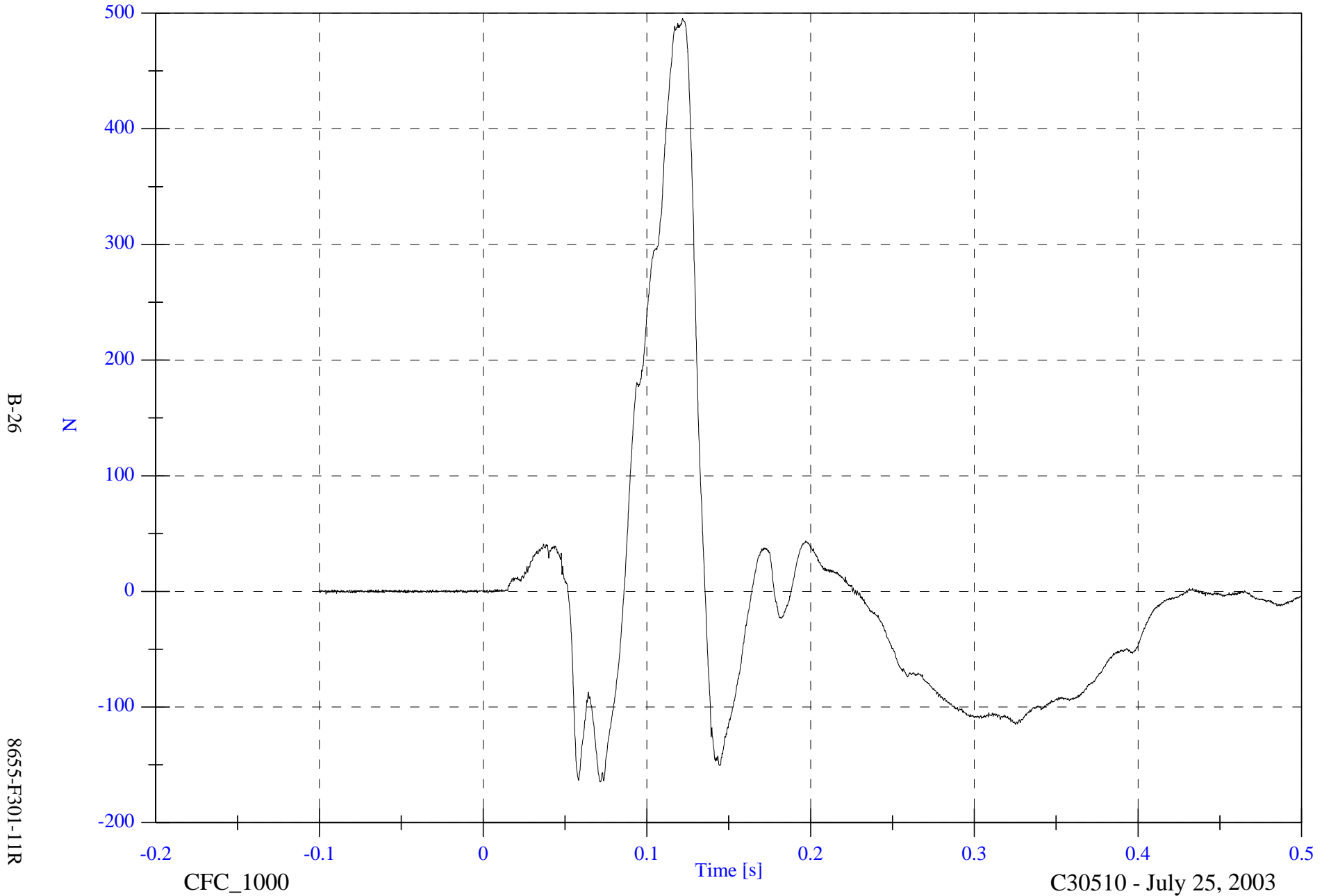
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 495.4 [N] at 0.122 [s]

Min: -164.7 [N] at 0.072 [s]

V2P1 Lower Neck Fx



B-26

8655-F301-11R

CFC\_1000

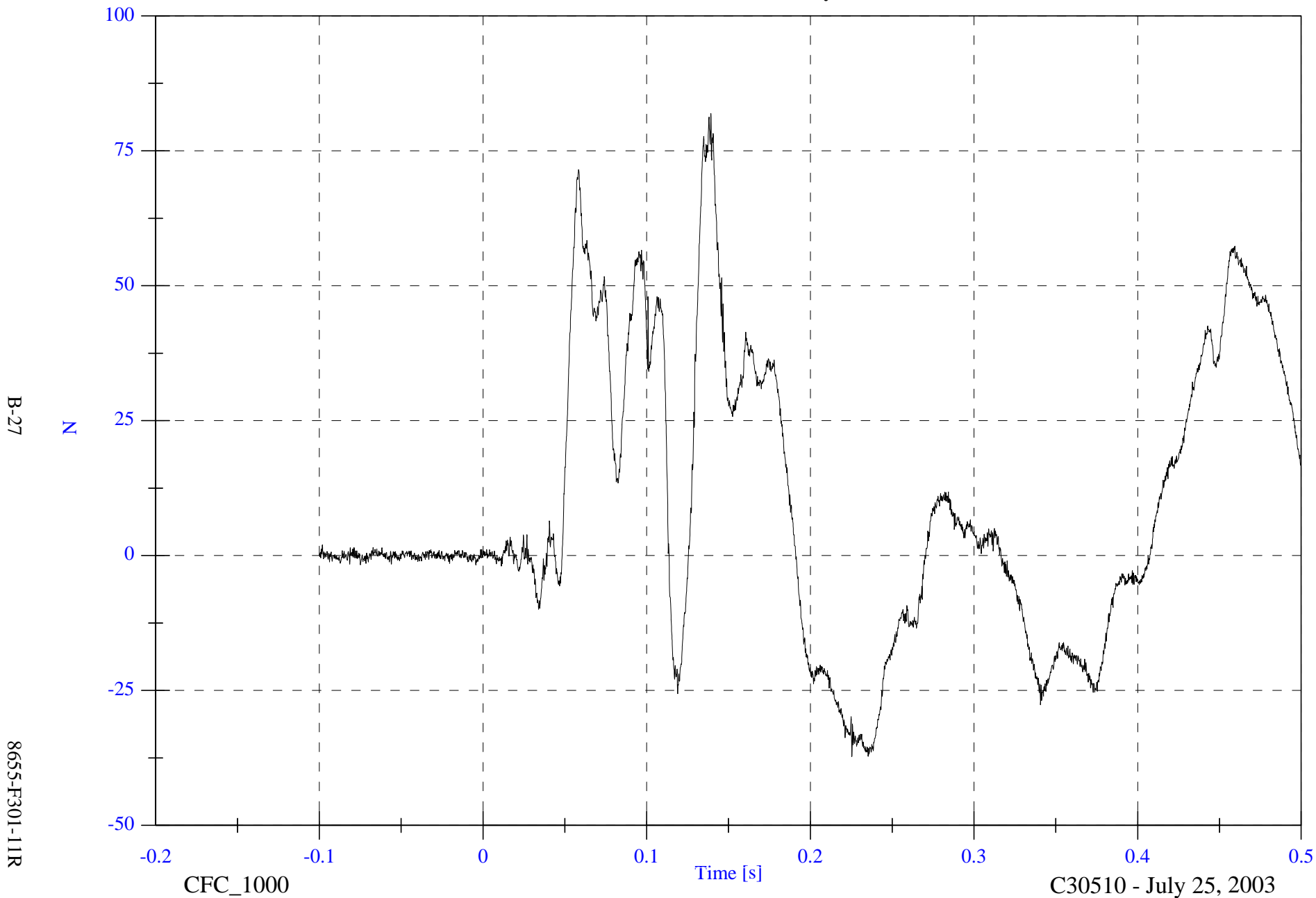
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 81.9 [N] at 0.139 [s]

Min: -37.3 [N] at 0.225 [s]

V2P1 Lower Neck Fy



B-27

8655-F301-11R

CFC\_1000

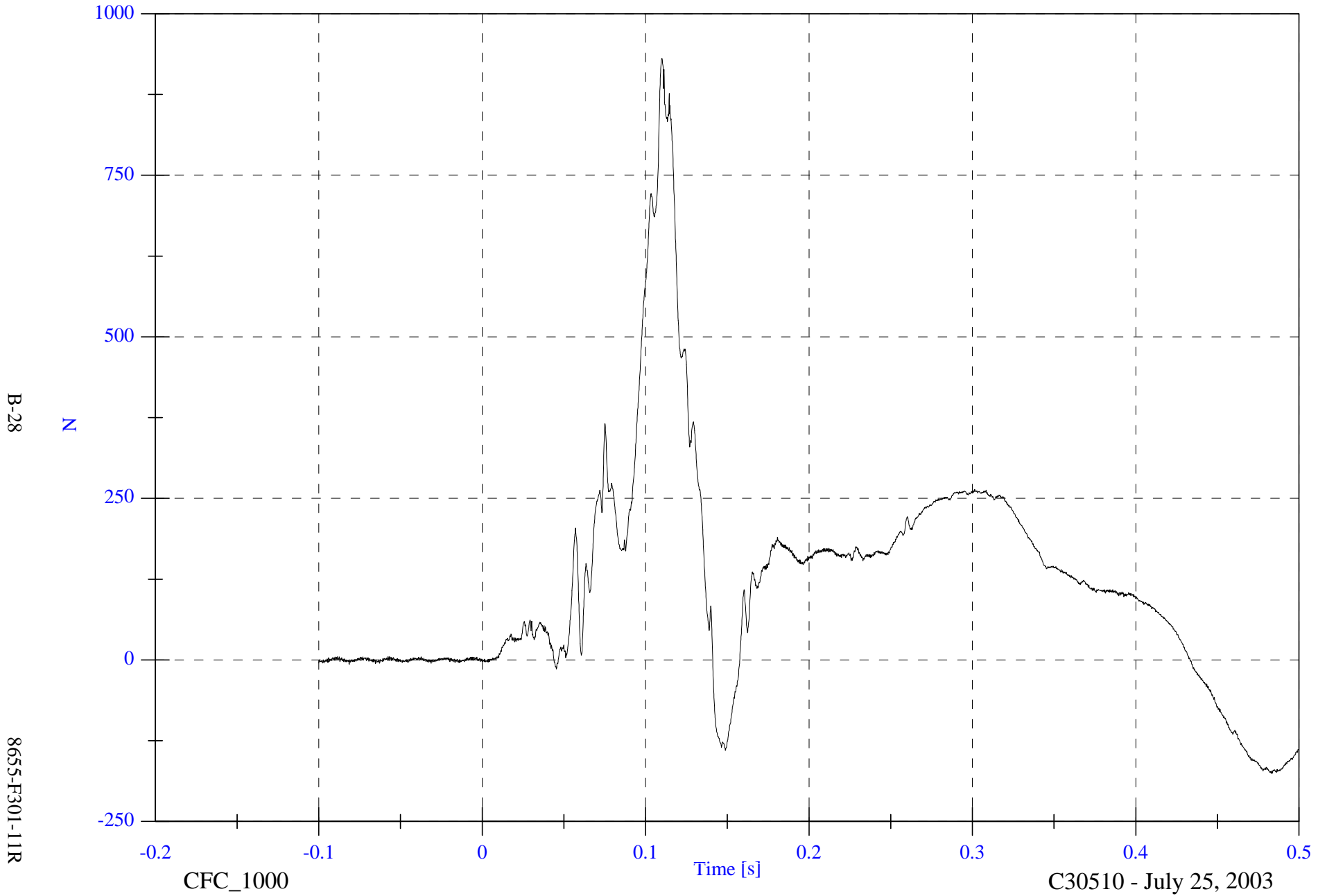
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 930.6 [N] at 0.110 [s]

Min: -175.5 [N] at 0.483 [s]

V2P1 Lower Neck Fz

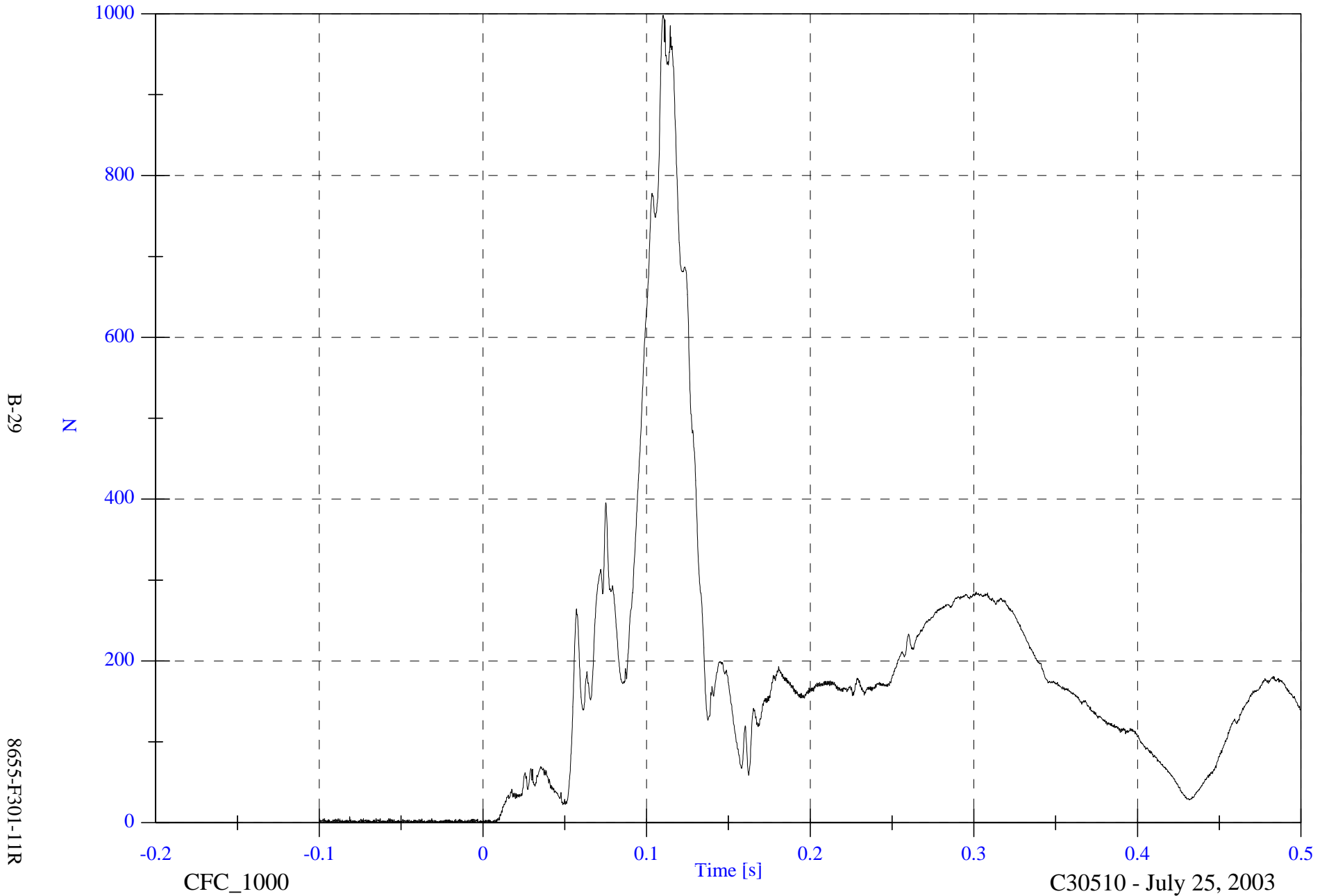


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 998.3 [N] at 0.110 [s]

V2P1 Lower Neck F Resultant

Min: 0.2 [N] at -0.011 [s]



B-29

8655-F301-11R

CFC\_1000

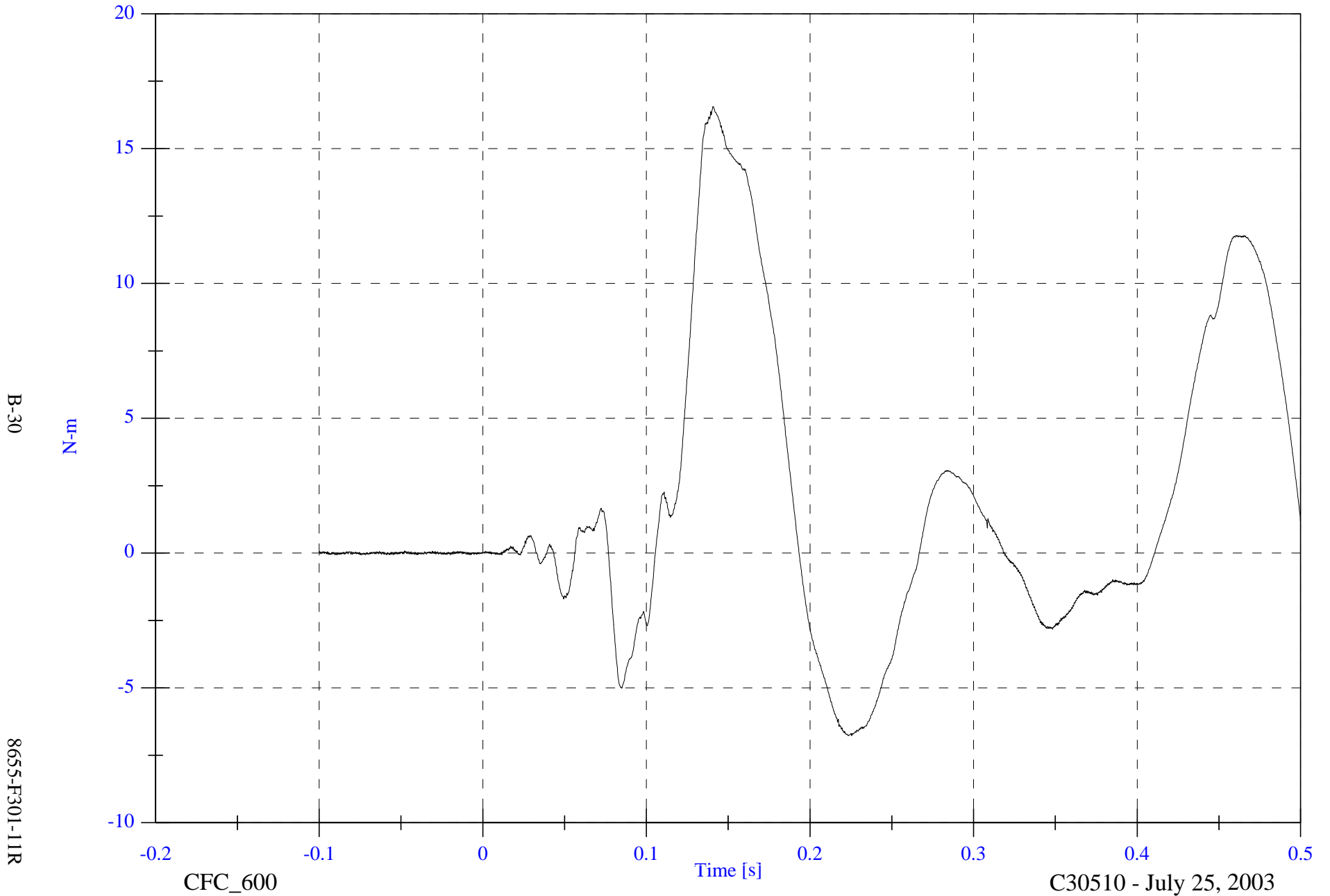
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 16.6 [N-m] at 0.141 [s]

Min: -6.8 [N-m] at 0.225 [s]

V2P1 Lower Neck Mx



B-30

8655-F301-11R

CFC\_600

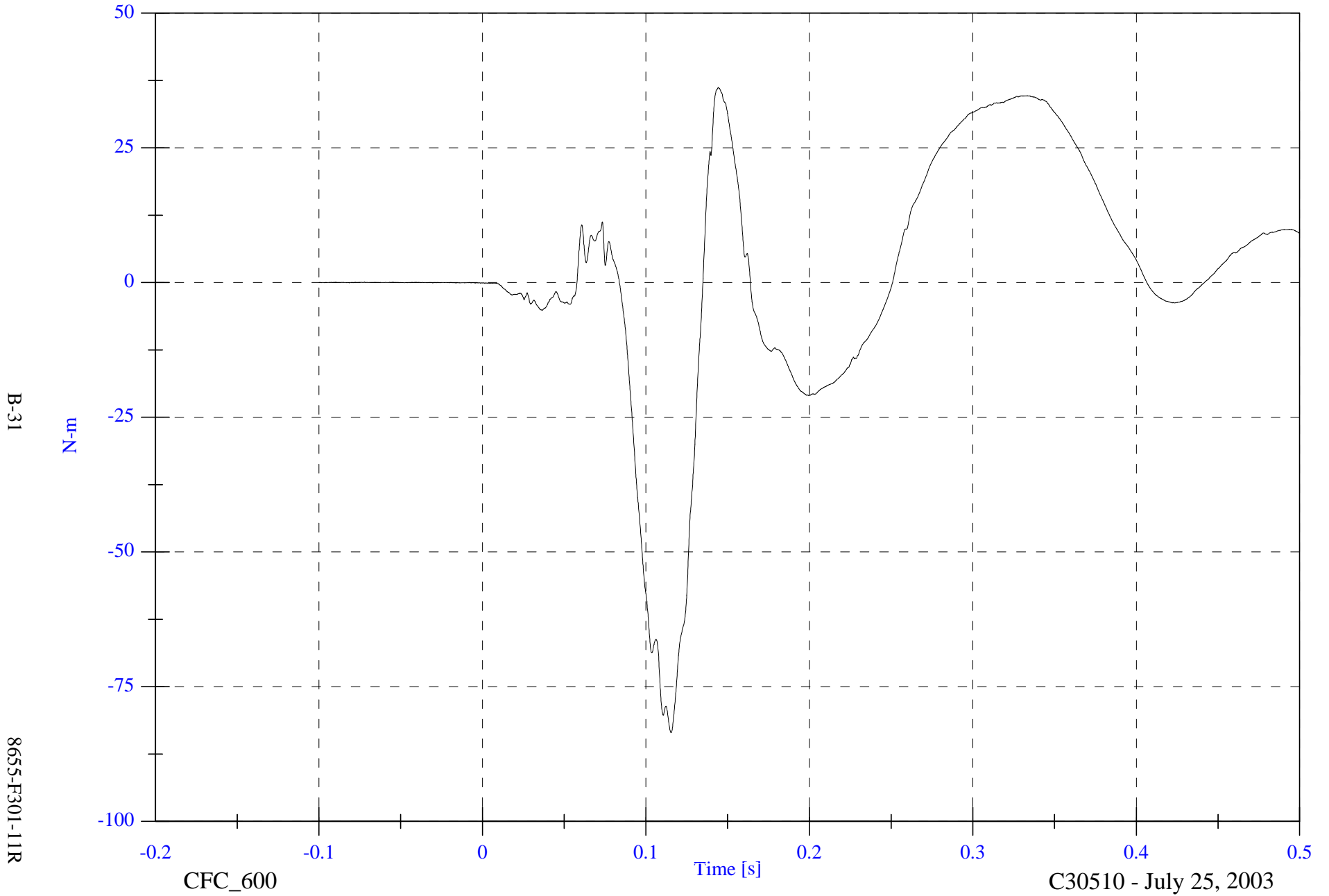
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Lower Neck My

Max: 36.2 [N-m] at 0.144 [s]

Min: -83.5 [N-m] at 0.115 [s]



B-31

8655-F301-11R

CFC\_600

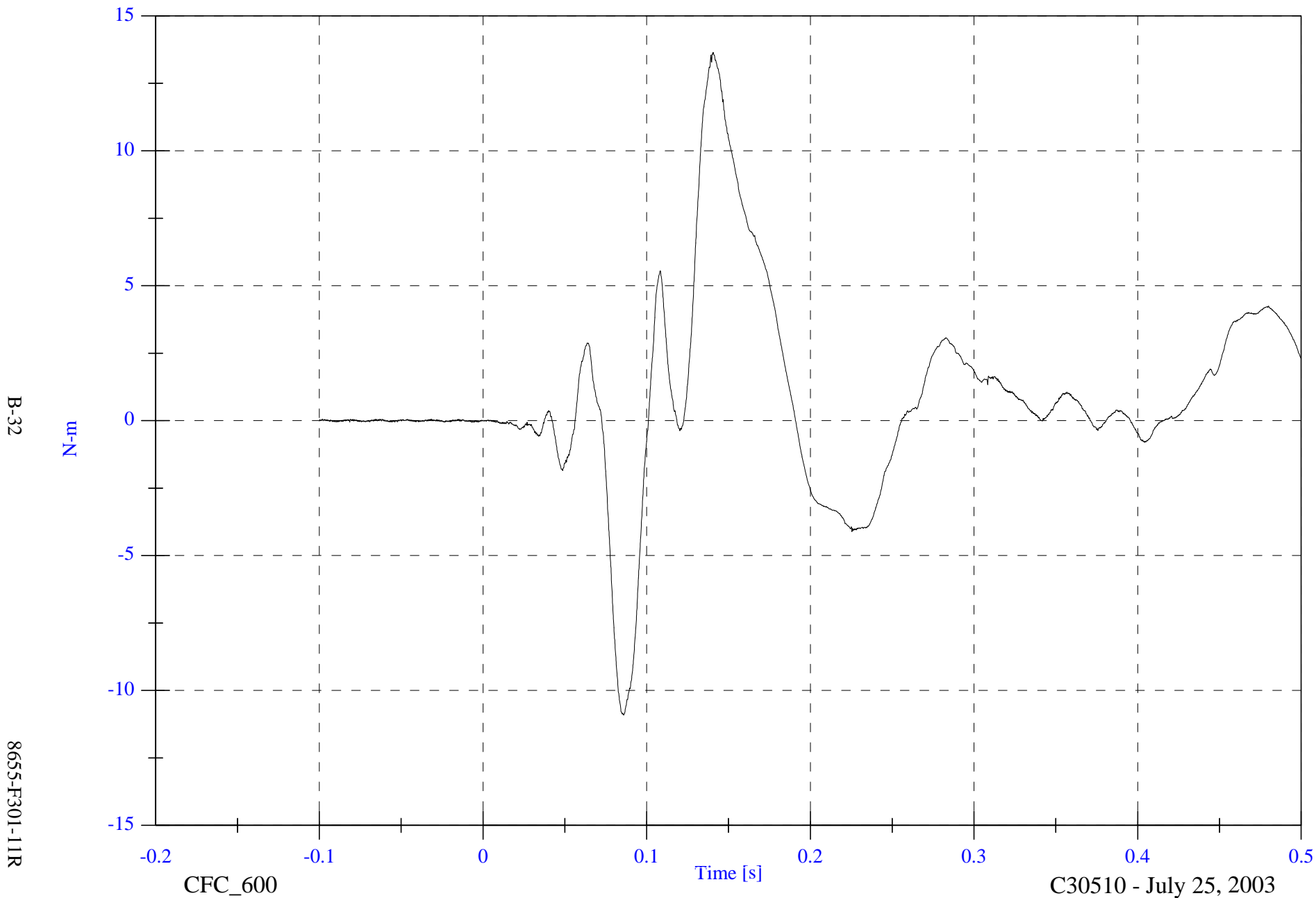
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 13.7 [N-m] at 0.141 [s]

Min: -10.9 [N-m] at 0.086 [s]

### V2P1 Lower Neck Mz



B-32

8655-F301-11R

CFC\_600

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

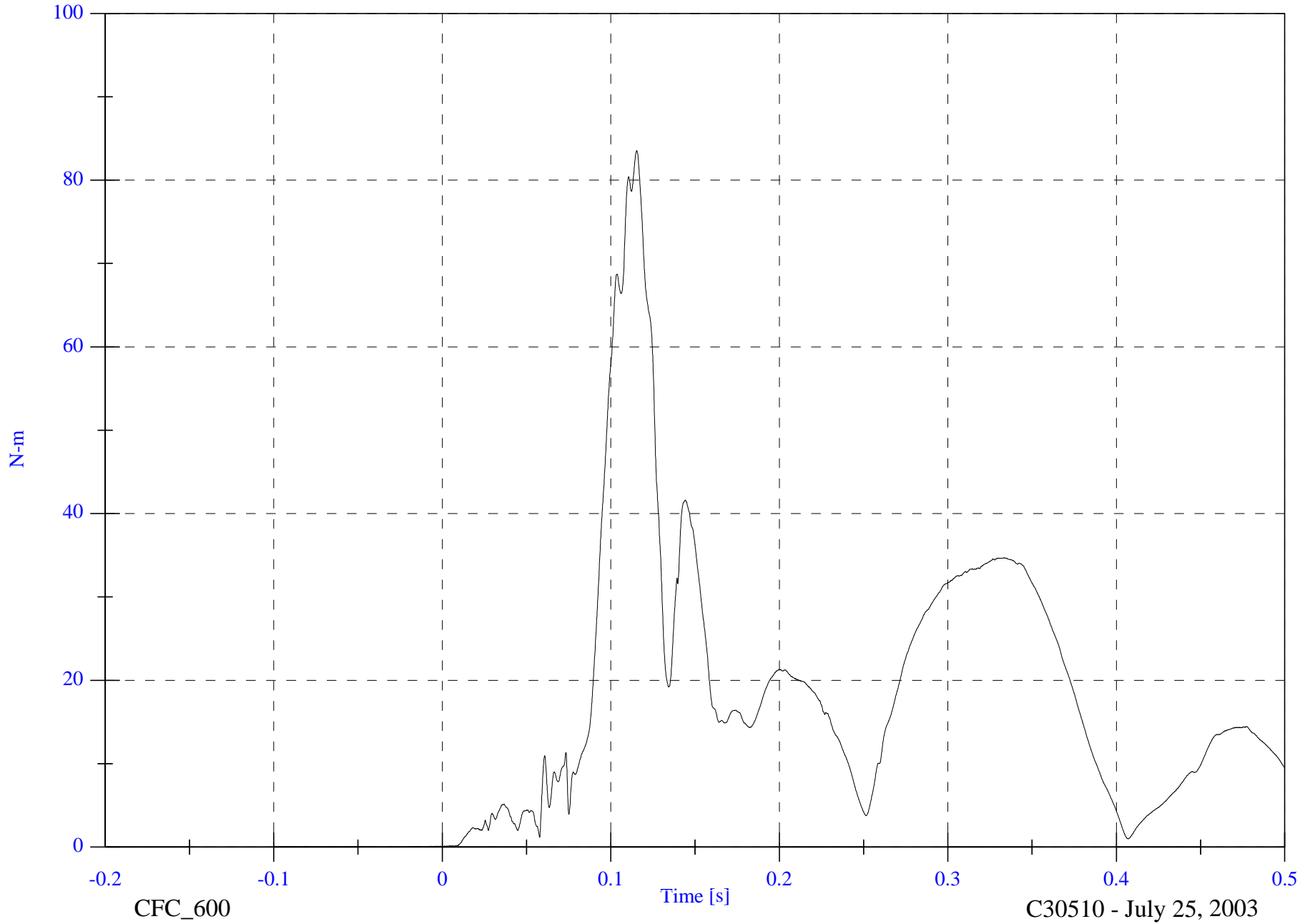
V2P1 Lower Neck M Resultant

Max: 83.6 [N-m] at 0.115 [s]

Min: 0.0 [N-m] at -0.068 [s]

B-33

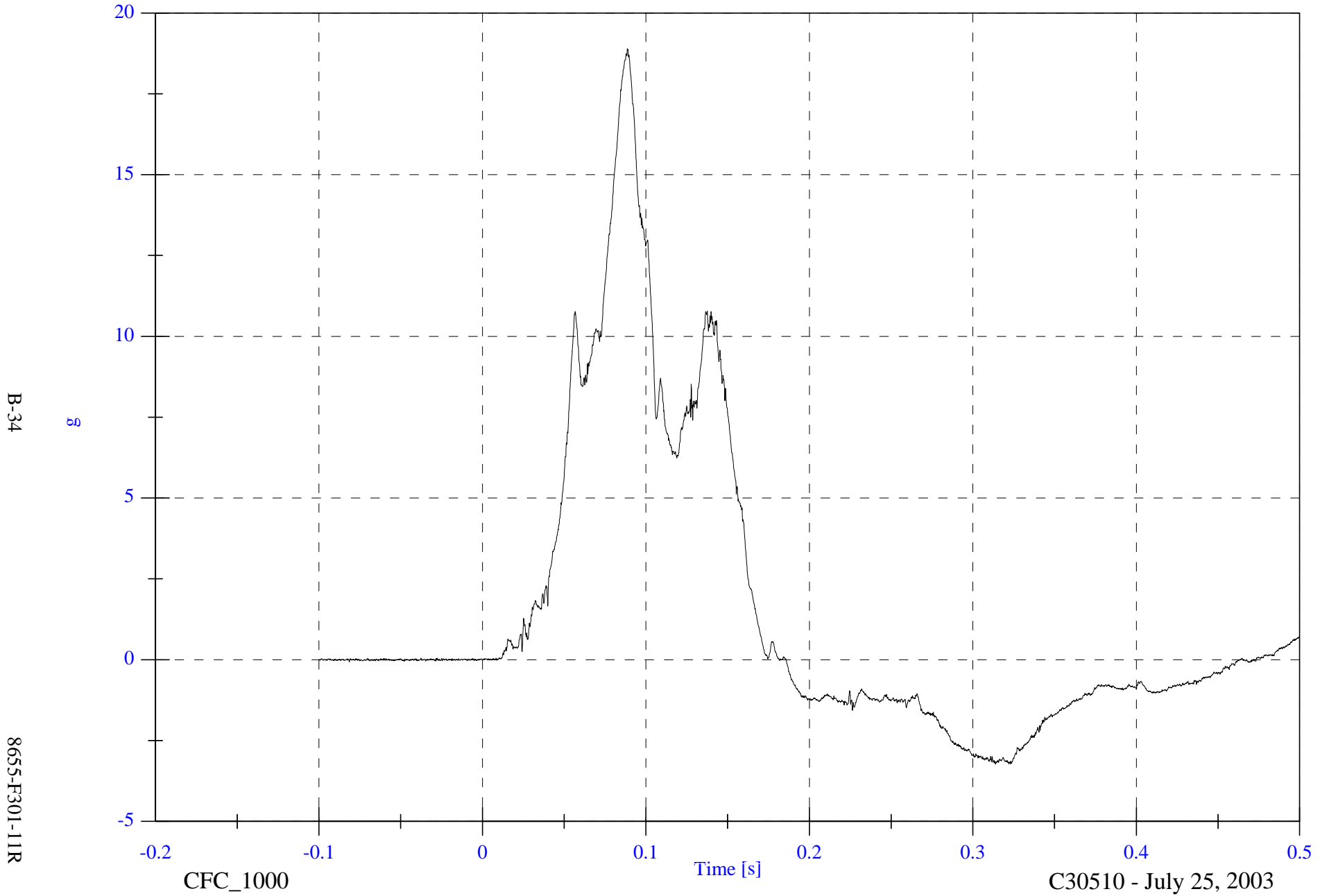
8655-F301-11R



2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 18.9 [g] at 0.089 [s]  
Min: -3.2 [g] at 0.314 [s]

V2P1 Lower Neck x

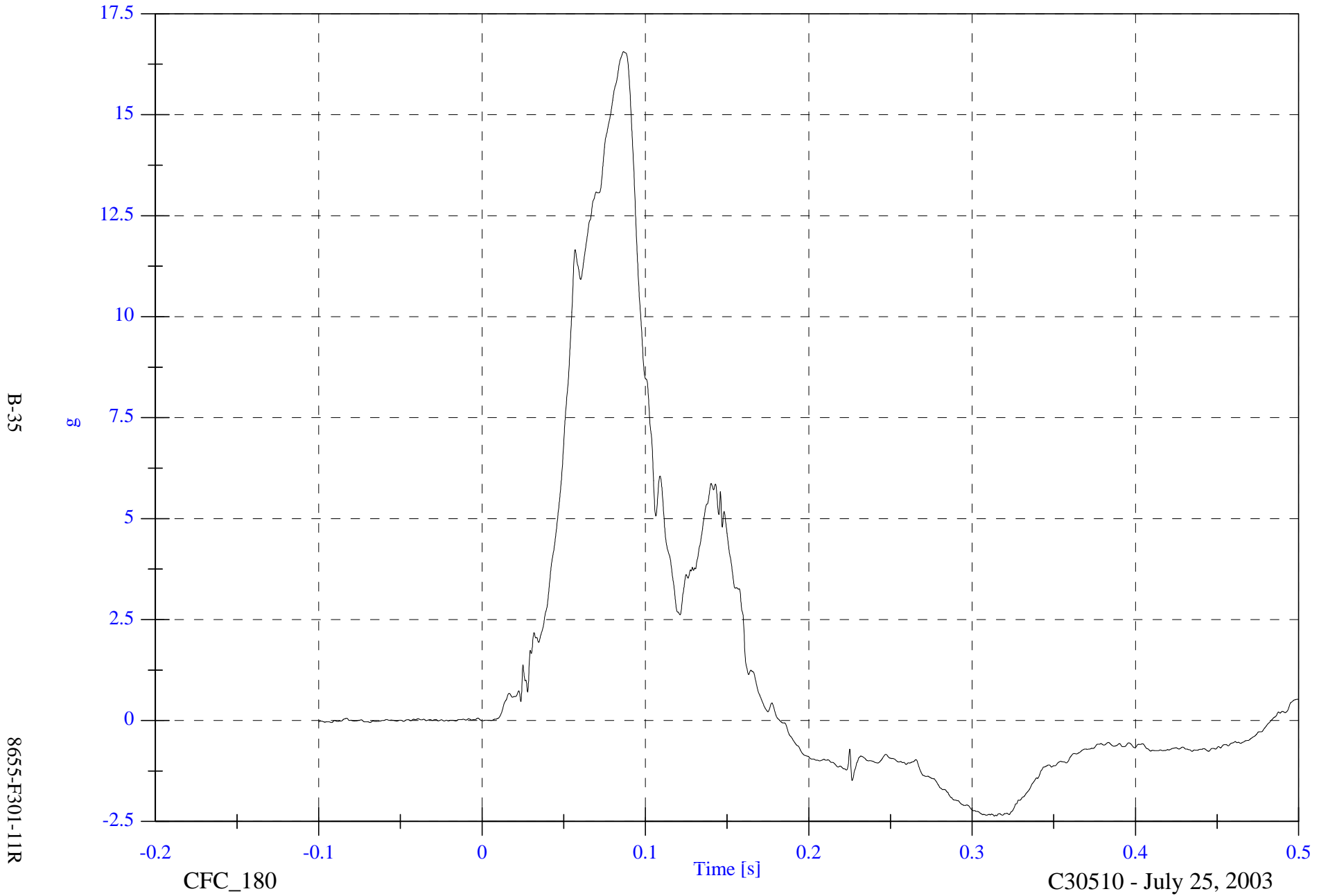


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Chest x

Max: 16.6 [g] at 0.087 [s]

Min: -2.4 [g] at 0.314 [s]

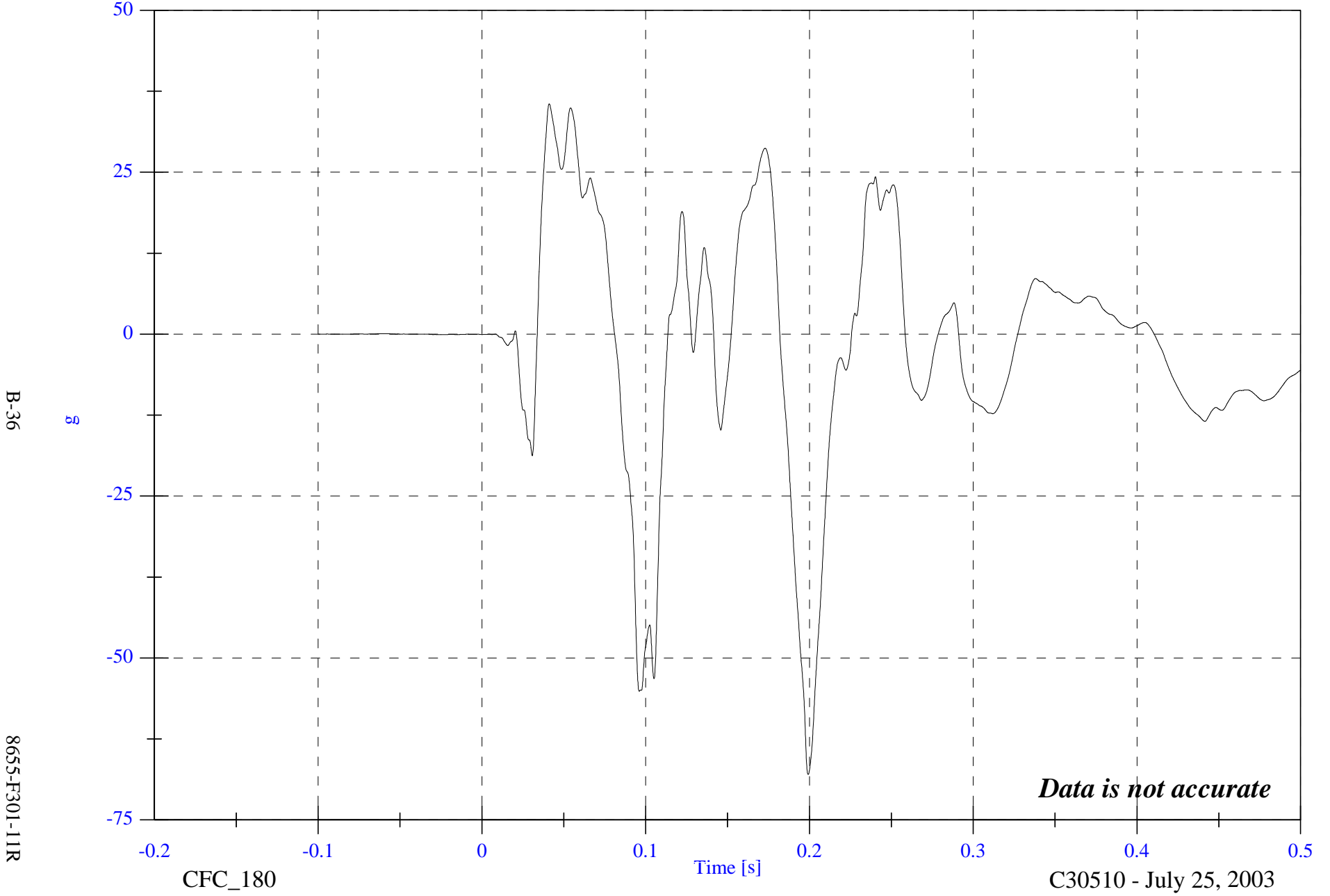


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Chest y

Max: 35.6 [g] at 0.041 [s]

Min: -68.0 [g] at 0.199 [s]



B-36

8655-F301-11R

CFC\_180

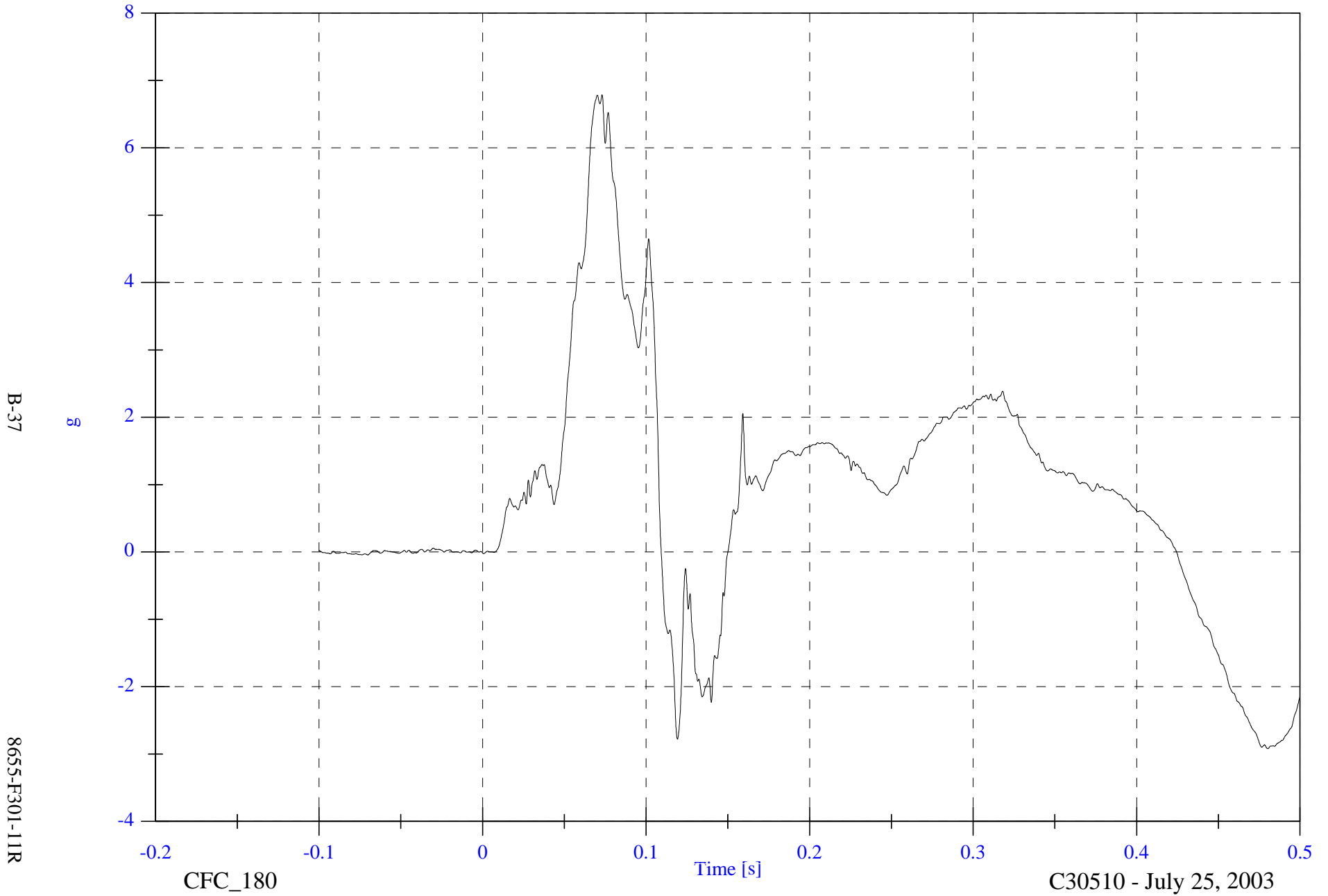
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Chest z

Max: 6.8 [g] at 0.073 [s]

Min: -2.9 [g] at 0.480 [s]



B-37

8655-F301-11R

CFC\_180

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

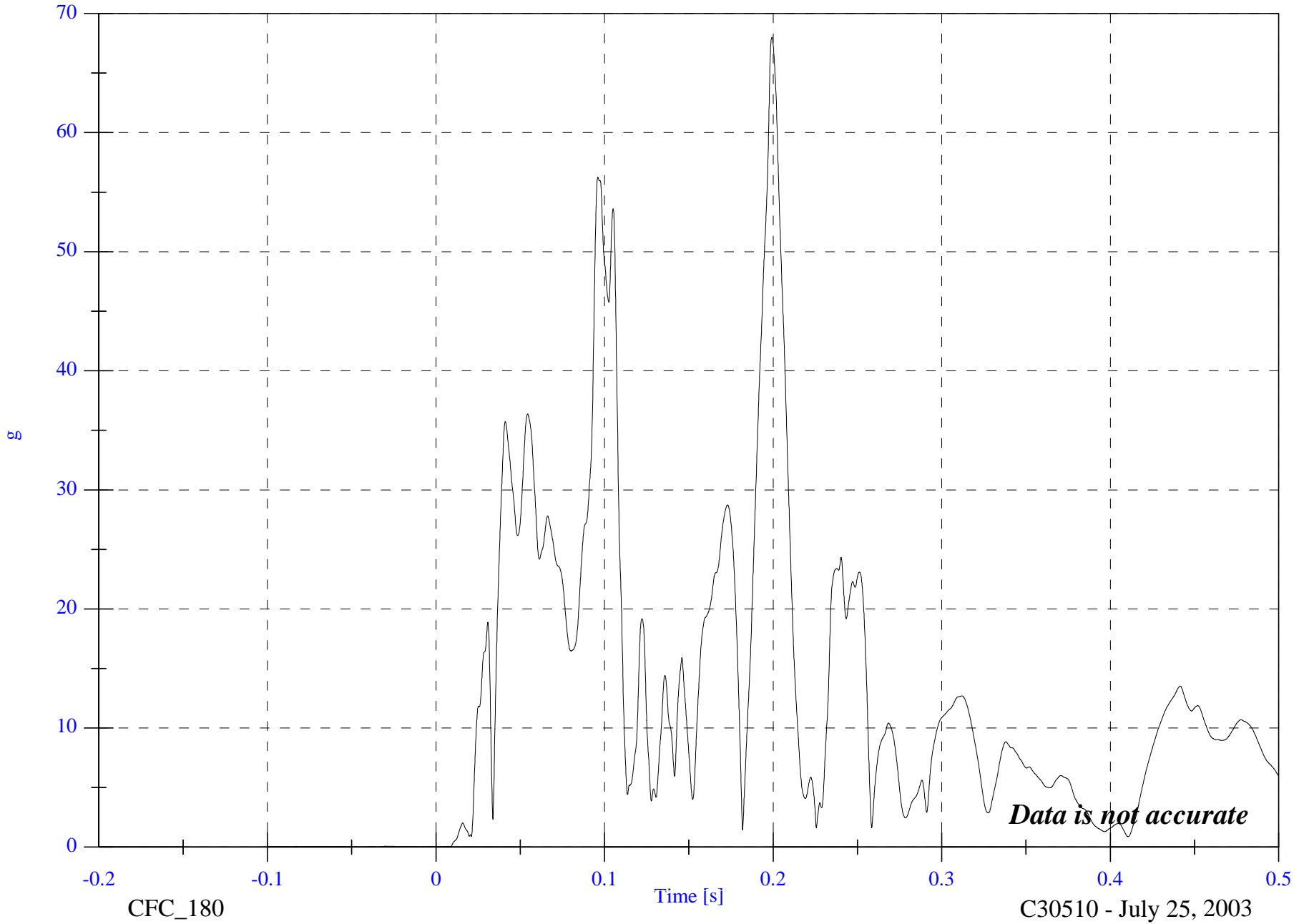
V2P1 Chest Resultant

Max: 68.0 [g] at 0.199 [s]

Min: 0.0 [g] at -0.090 [s]

B-38

8655-F301-11R



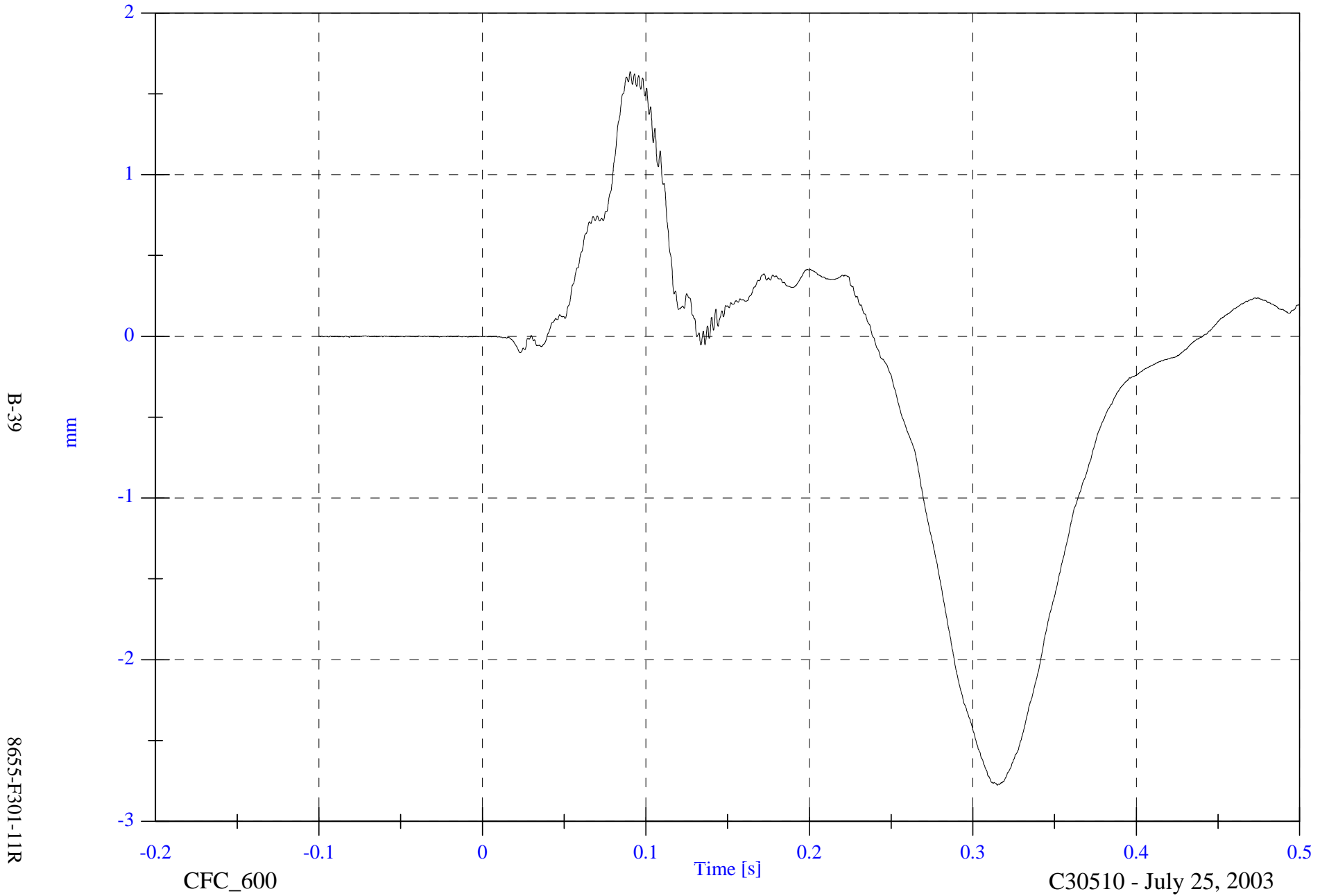
*Data is not accurate*

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 1.6 [mm] at 0.090 [s]

Min: -2.8 [mm] at 0.315 [s]

### V2P1 Chest Displacement



B-39

mm

8655-F301-11R

CFC\_600

Time [s]

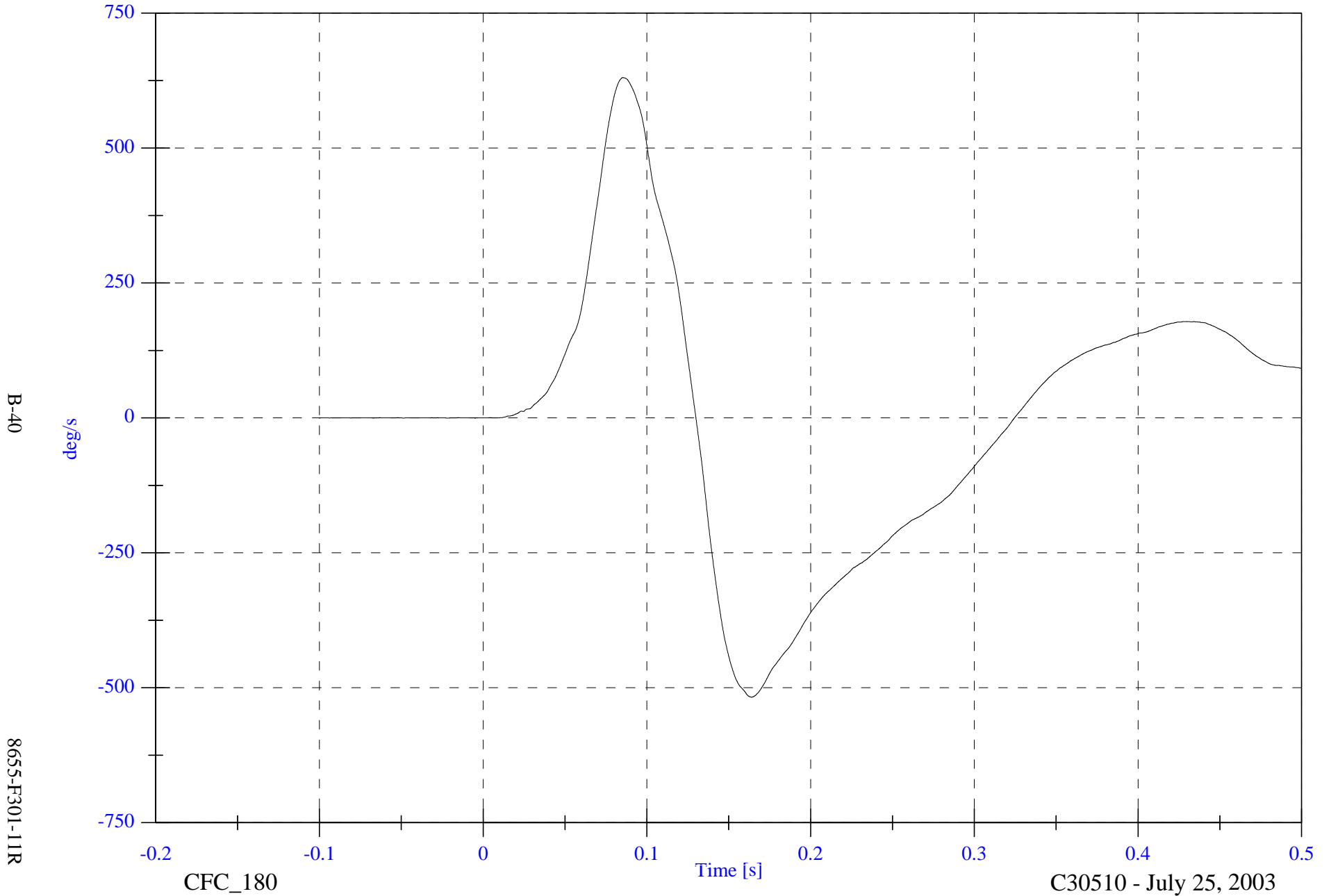
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Chest Rotation AVy

Max: 630.5 [deg/s] at 0.085 [s]

Min: -517.4 [deg/s] at 0.164 [s]



B-40

8655-F301-11R

CFC\_180

Time [s]

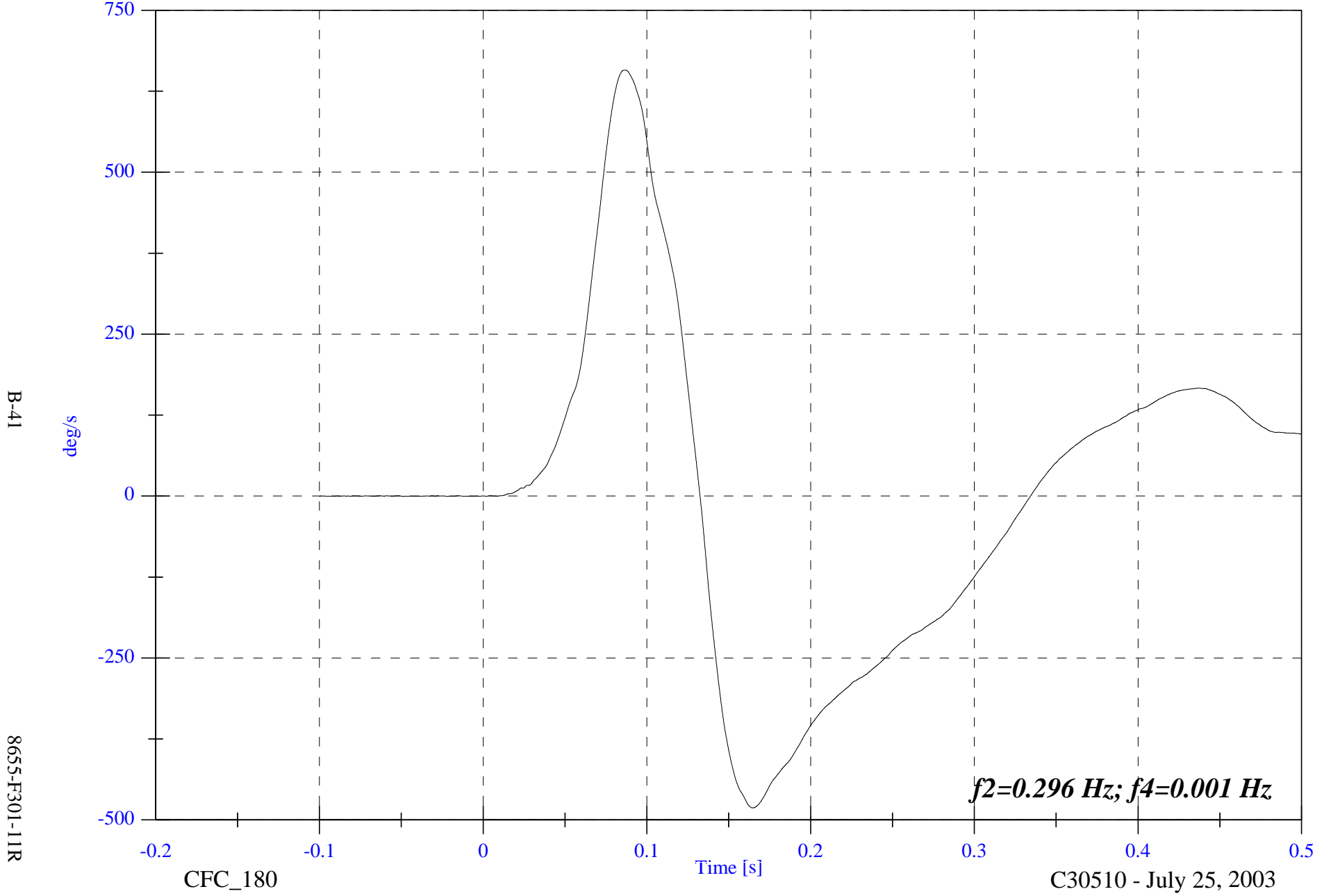
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Chest Comp Rotation AVy

Max: 657.7 [deg/s] at 0.087 [s]

Min: -481.5 [deg/s] at 0.165 [s]



B-41

8655-F301-11R

CFC\_180

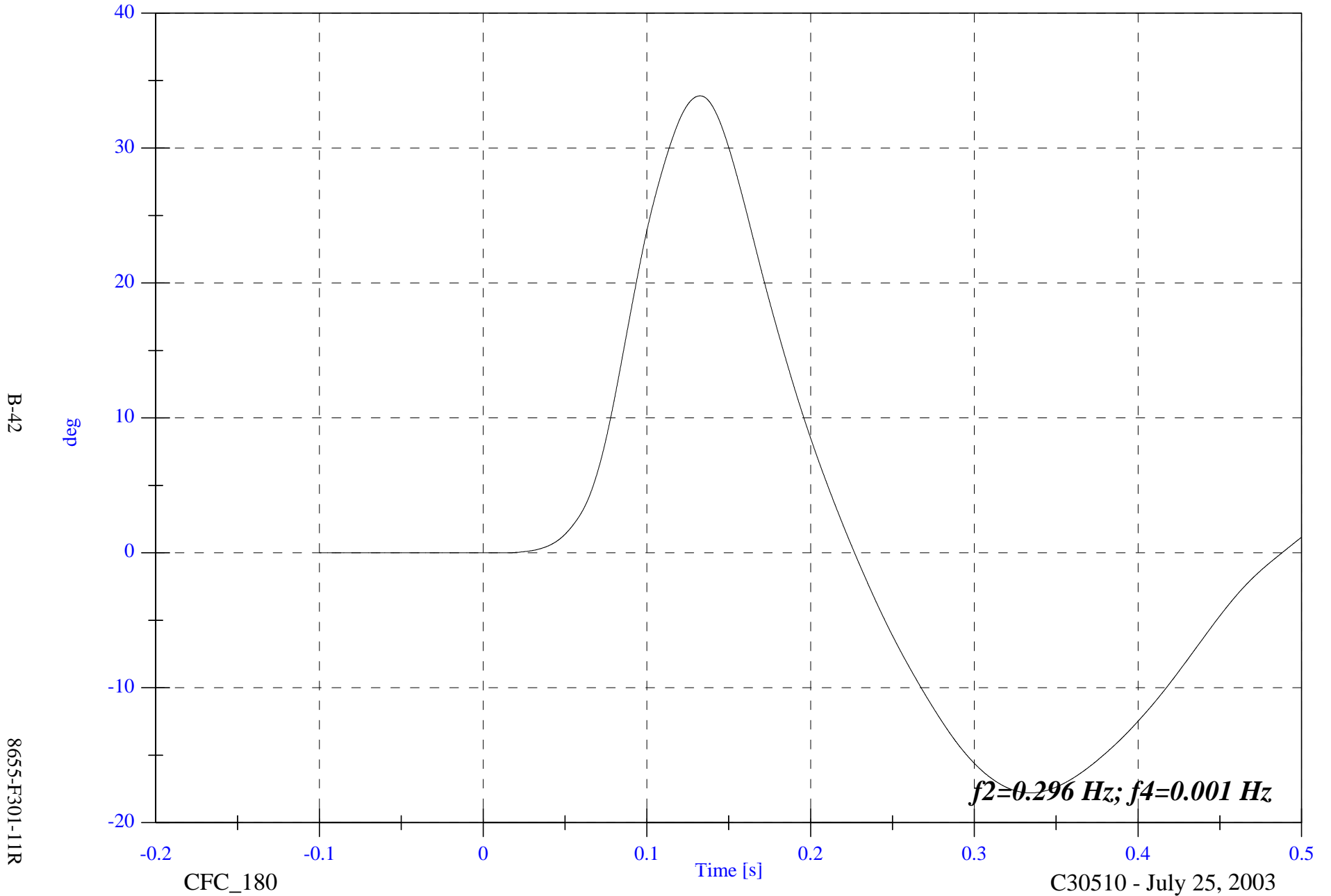
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Chest Comp Rotation ADy

Max: 33.9 [deg] at 0.133 [s]

Min: -17.8 [deg] at 0.334 [s]



B-42

8655-F301-11R

CFC\_180

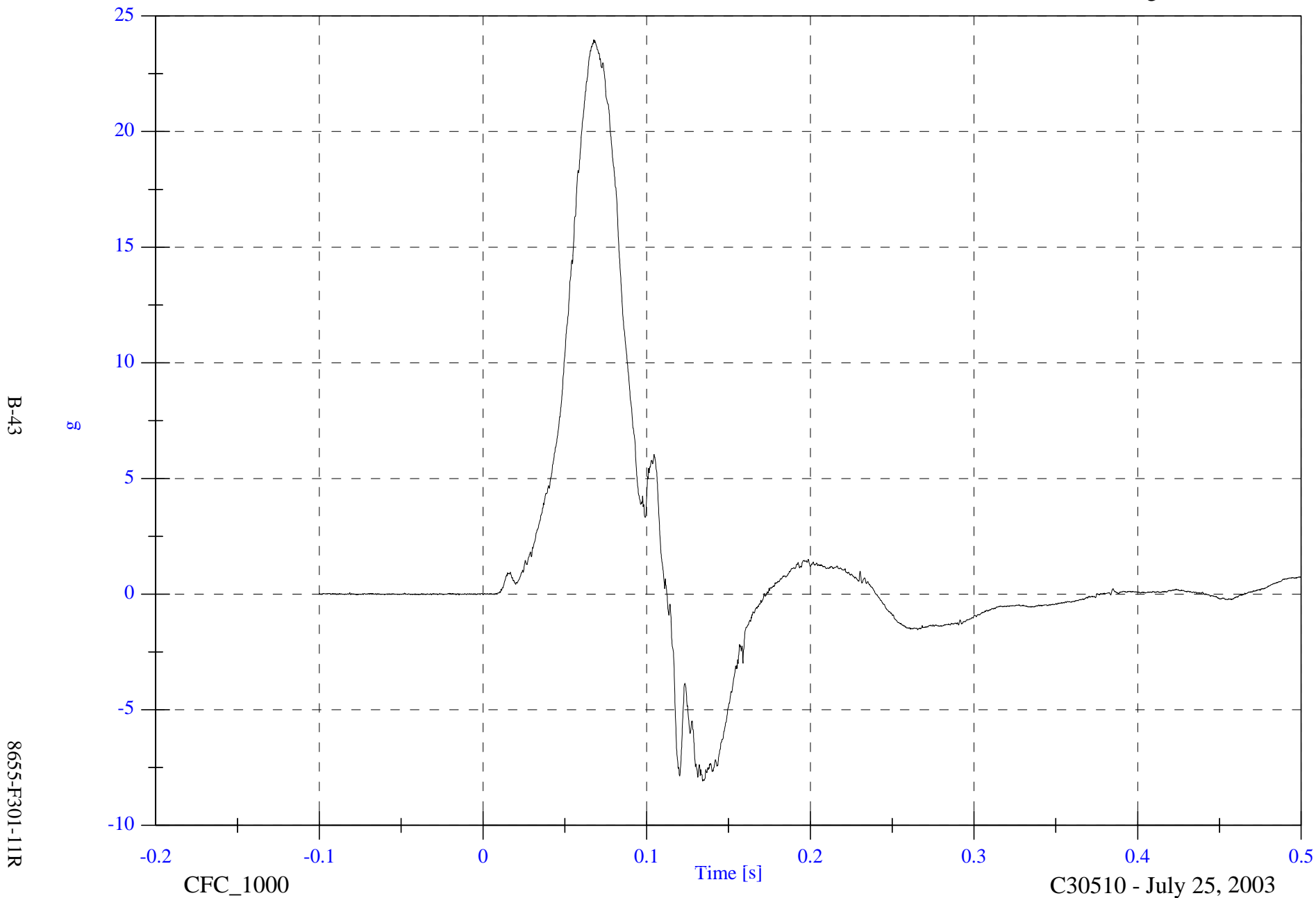
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Pelvic x

Max: 24.0 [g] at 0.068 [s]

Min: -8.1 [g] at 0.134 [s]



B-43

8655-F301-11R

CFC\_1000

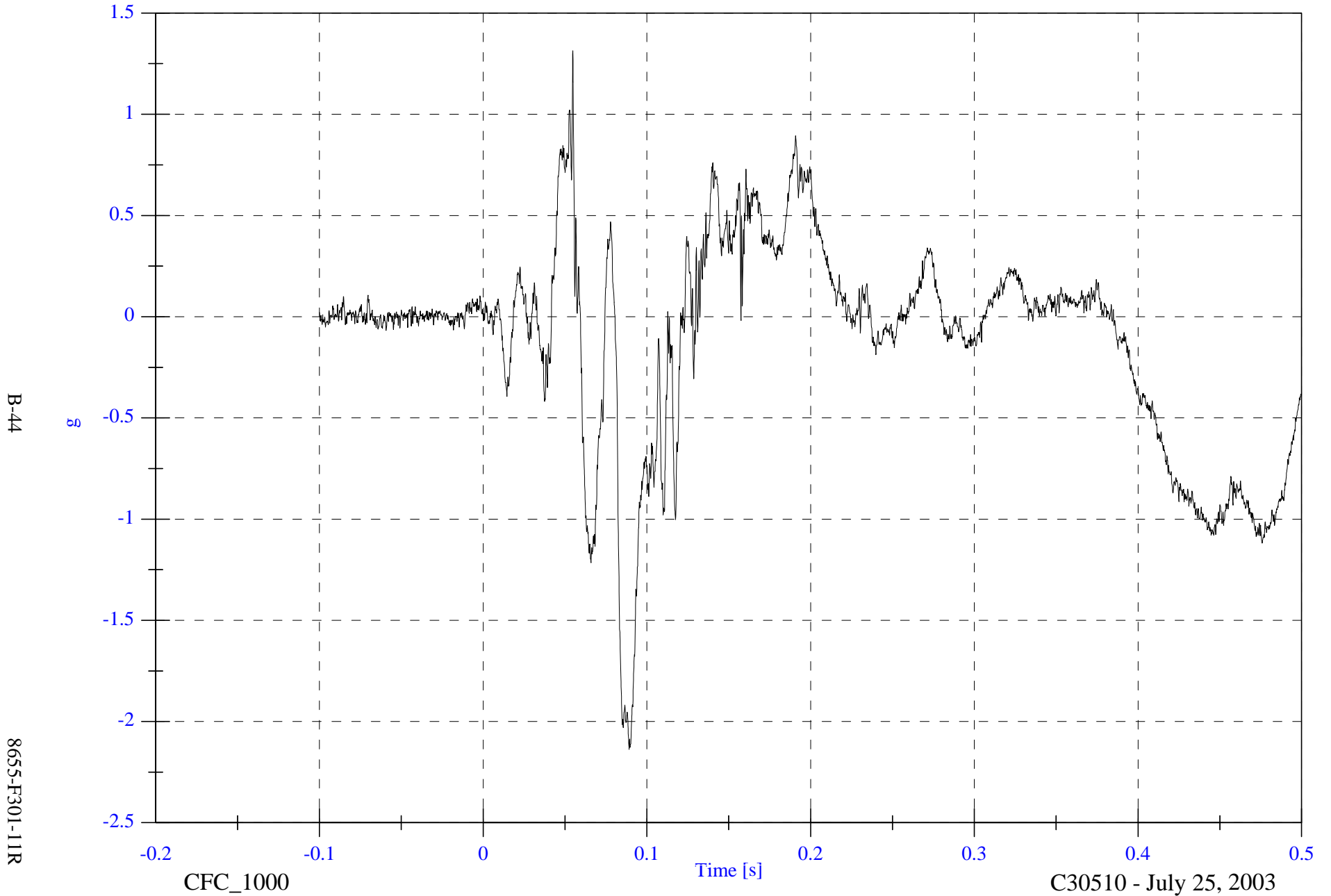
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 1.3 [g] at 0.055 [s]

Min: -2.1 [g] at 0.089 [s]

V2P1 Pelvic y

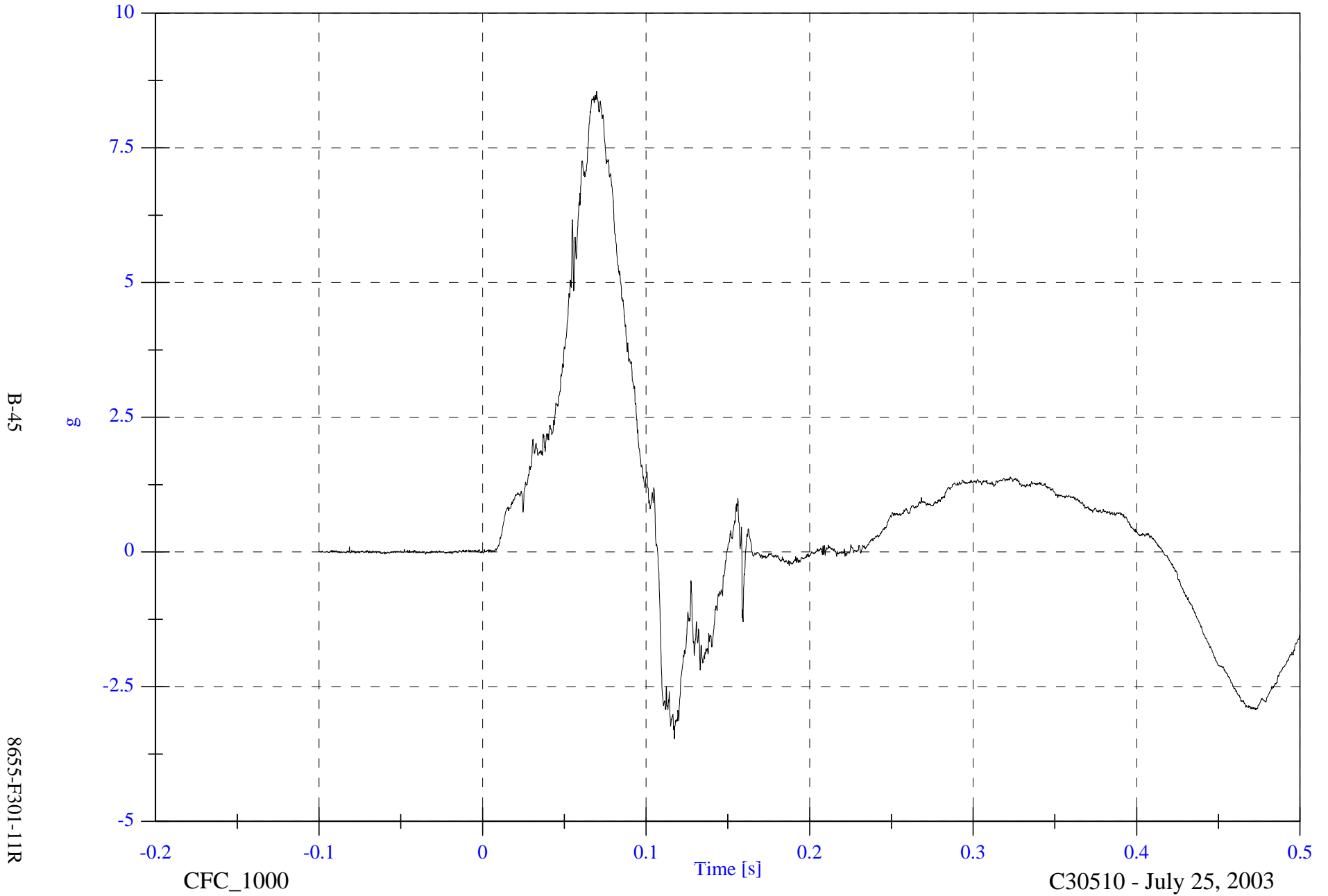


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Pelvic z

Max: 8.5 [g] at 0.070 [s]

Min: -3.5 [g] at 0.117 [s]

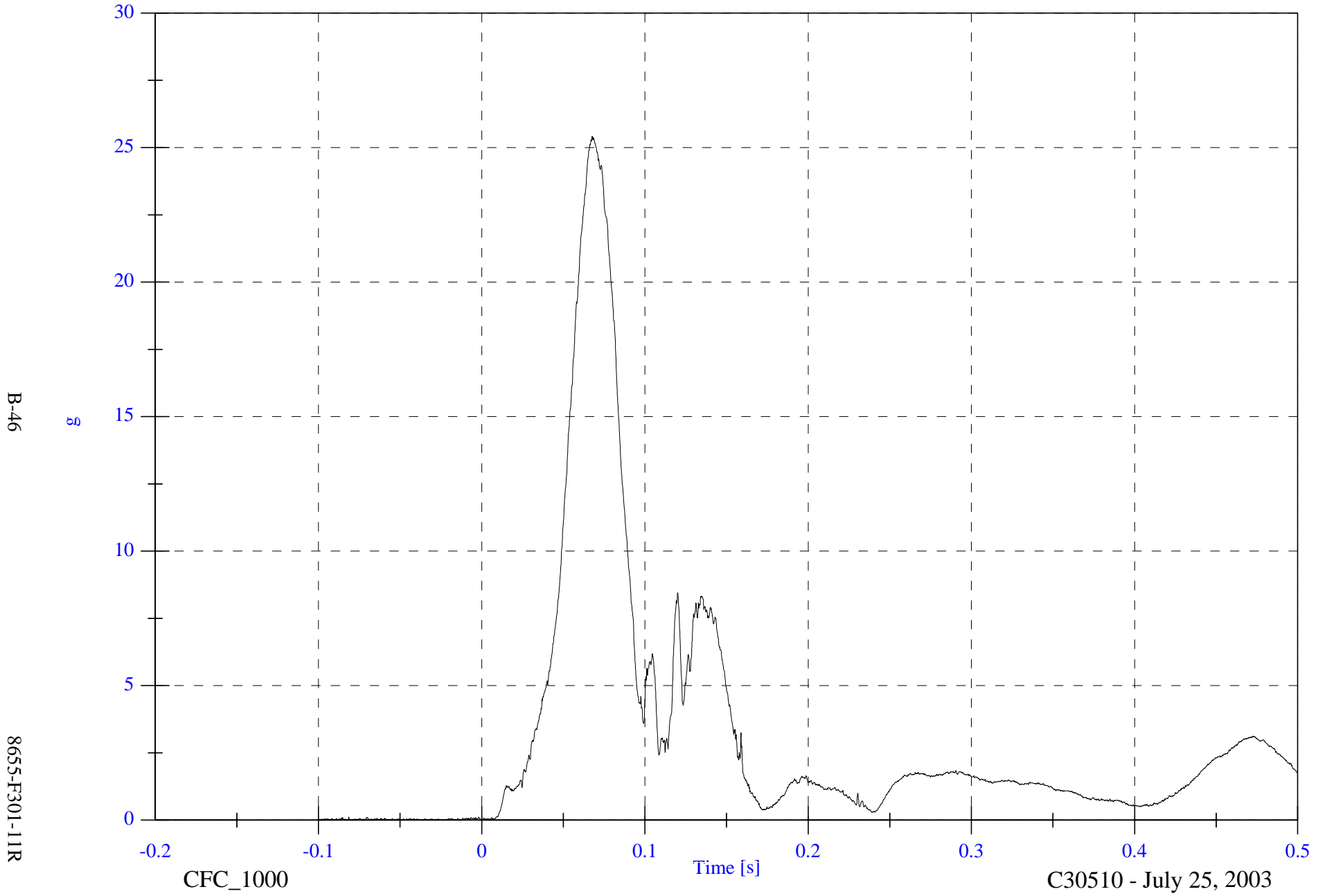


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Pelvic Resultant

Max: 25.4 [g] at 0.068 [s]

Min: 0.0 [g] at -0.034 [s]



B-46

8655-F301-11R

CFC\_1000

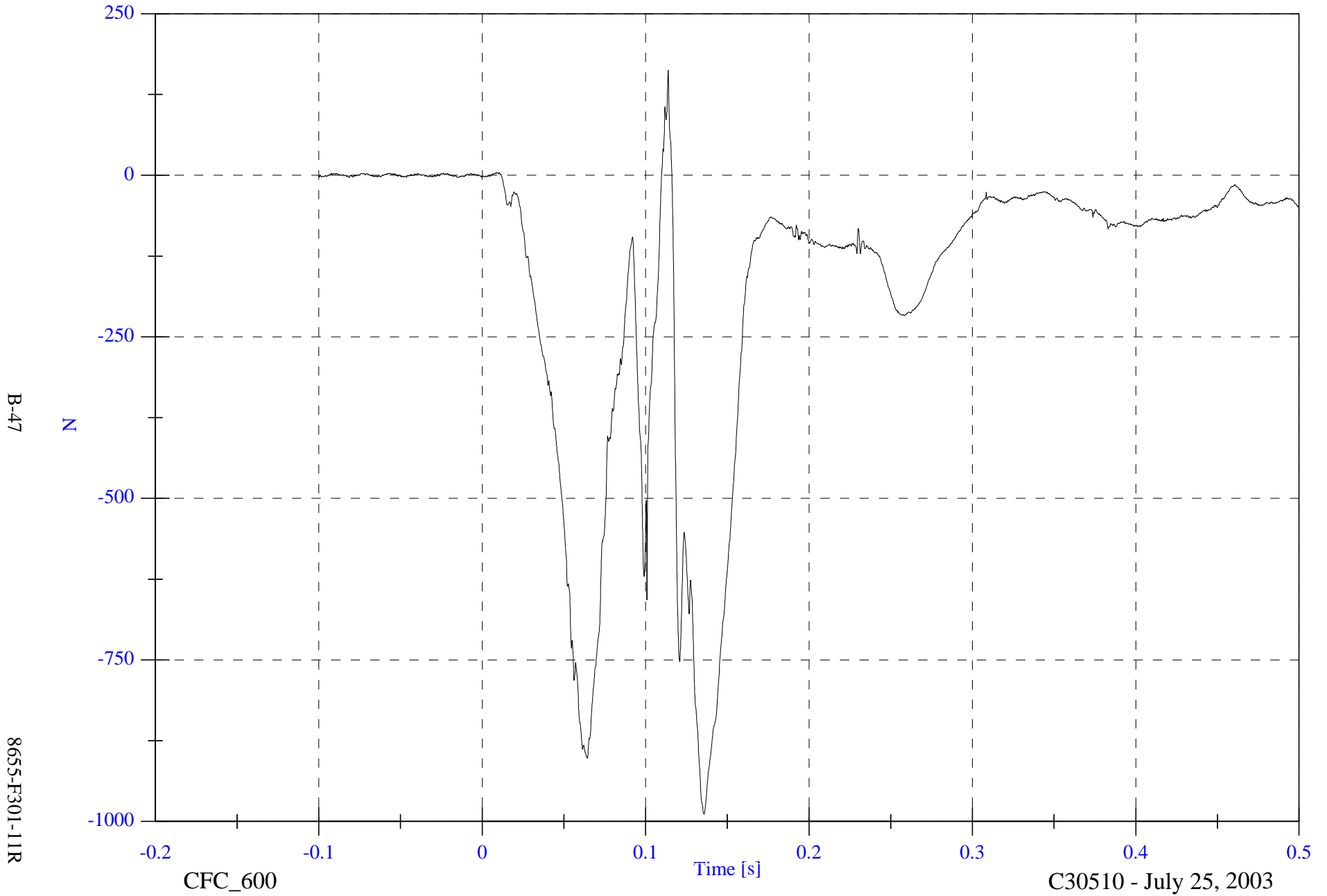
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Left Femur

Max: 162.6 [N] at 0.114 [s]

Min: -988.4 [N] at 0.136 [s]



B-47

8655-F301-11R

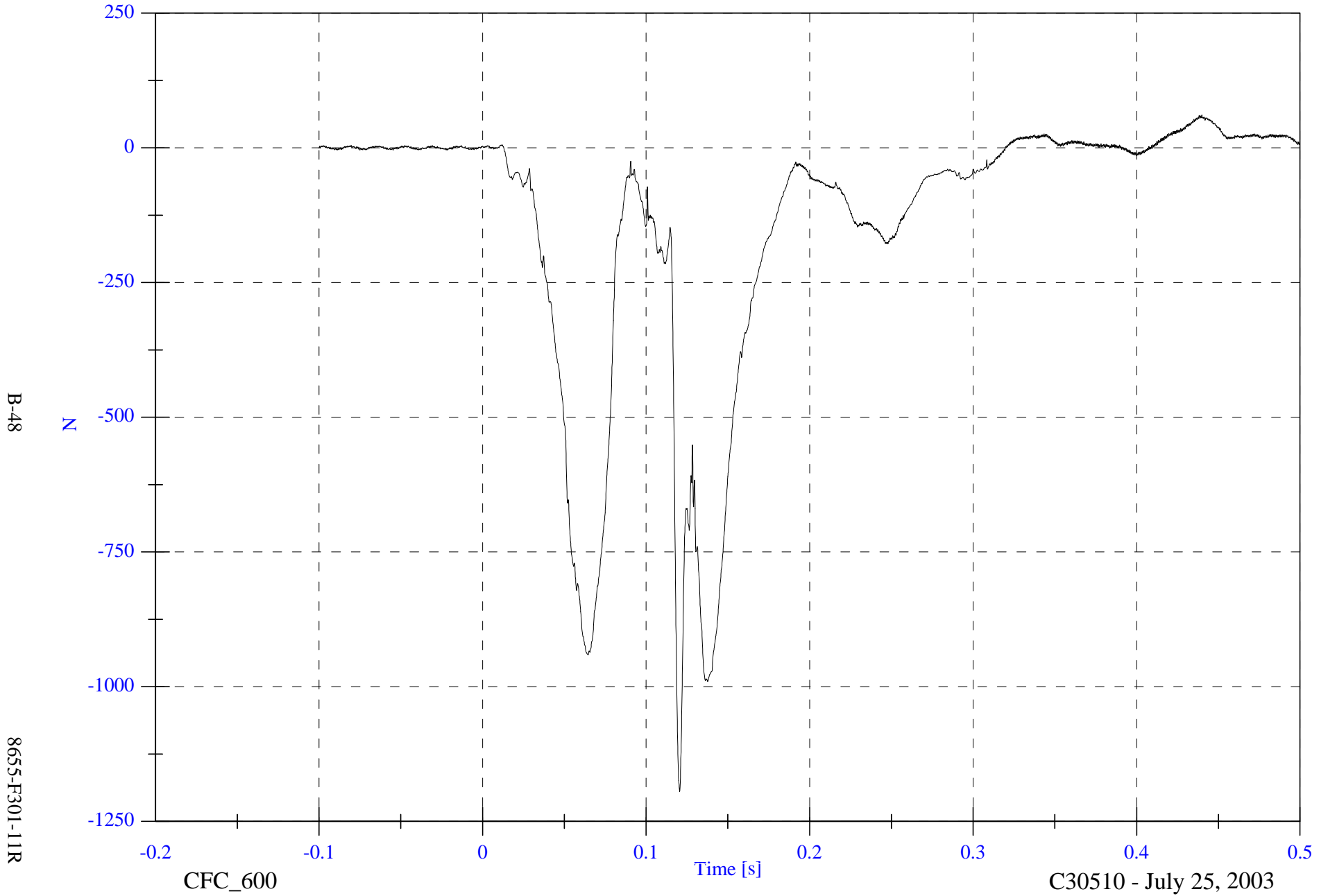
CFC\_600

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Right Femur

Max: 60.8 [N] at 0.440 [s]  
Min: -1195.0 [N] at 0.121 [s]

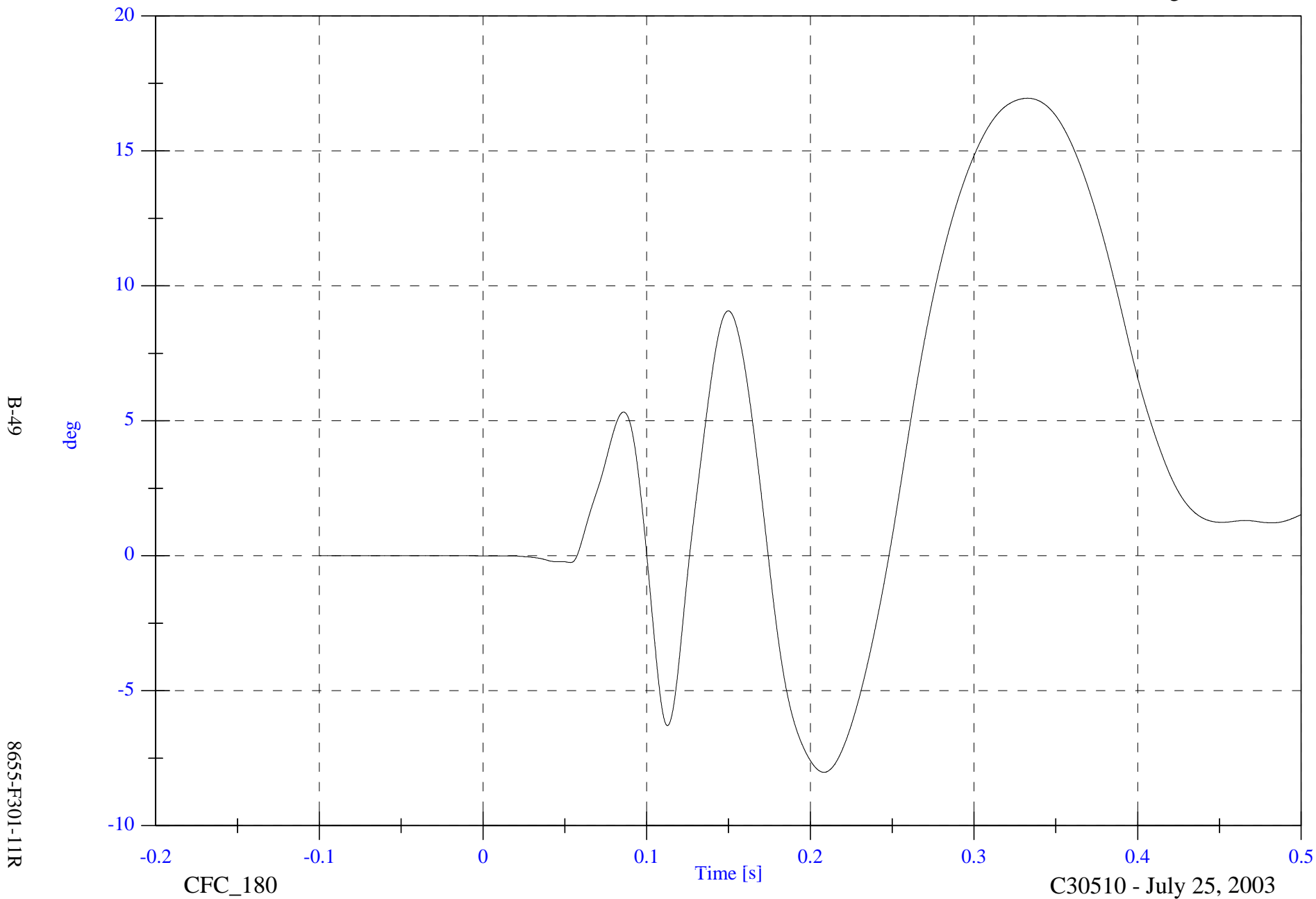


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Head to Chest

Max: 16.9 [deg] at 0.333 [s]

Min: -8.0 [deg] at 0.208 [s]



B-49

8655-F301-11R

CFC\_180

Time [s]

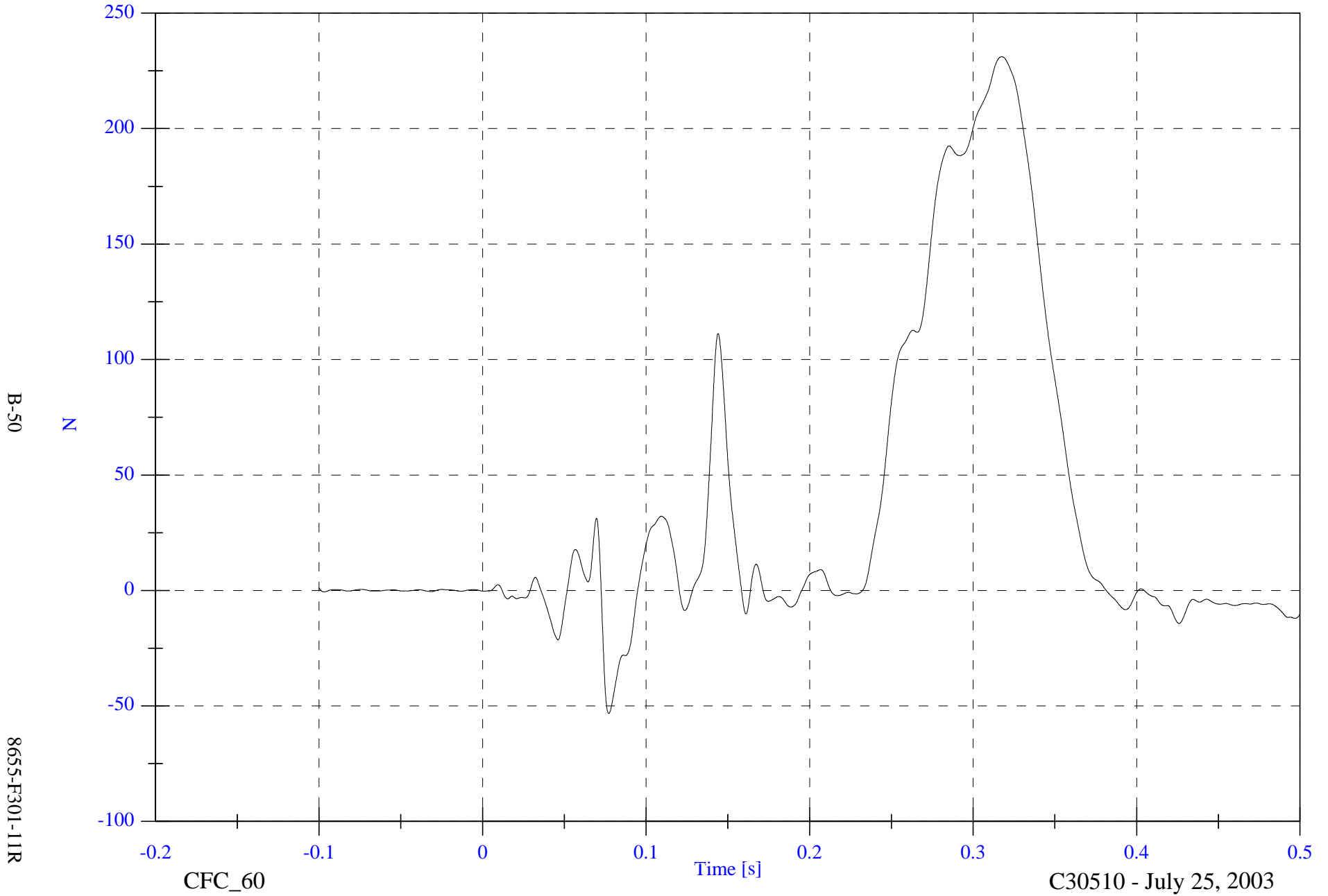
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P1 Lap Belt

Max: 231.1 [N] at 0.317 [s]

Min: -53.3 [N] at 0.077 [s]



B-50

N

8655-F301-11R

CFC\_60

Time [s]

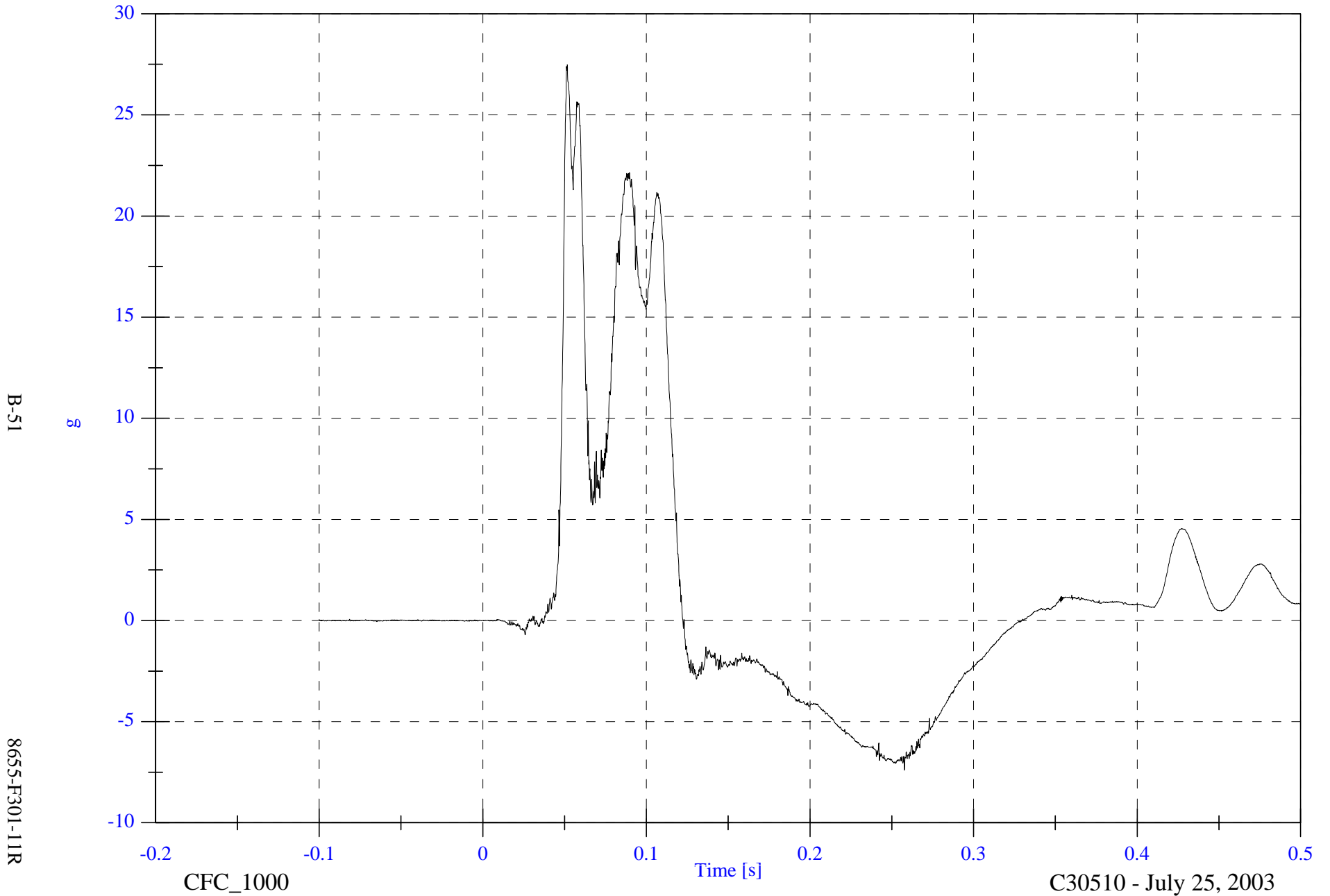
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Head Ax

Max: 27.5 [g] at 0.052 [s]

Min: -7.4 [g] at 0.258 [s]



B-51

8655-F301-11R

CFC\_1000

Time [s]

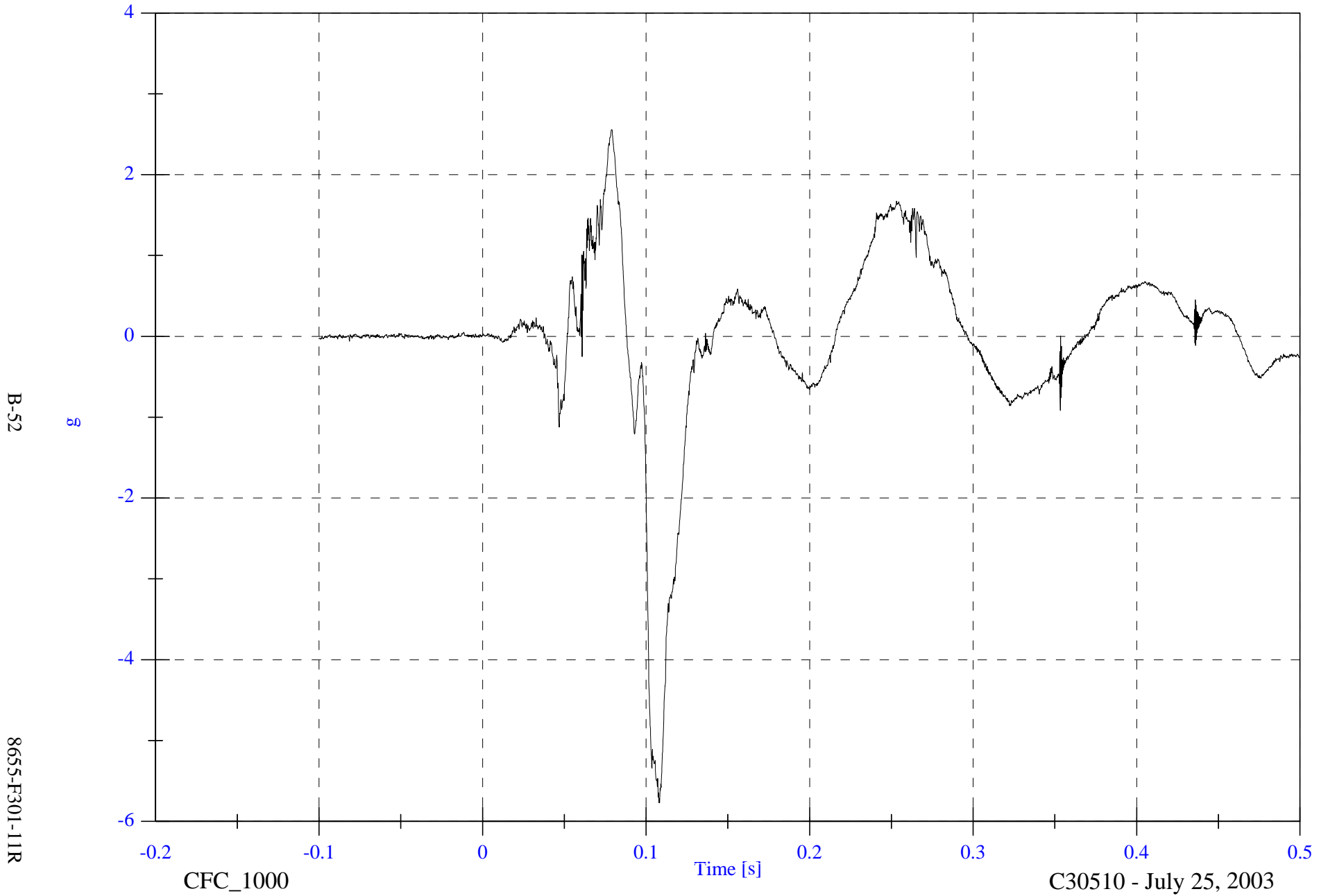
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Head Ay

Max: 2.6 [g] at 0.079 [s]

Min: -5.8 [g] at 0.108 [s]

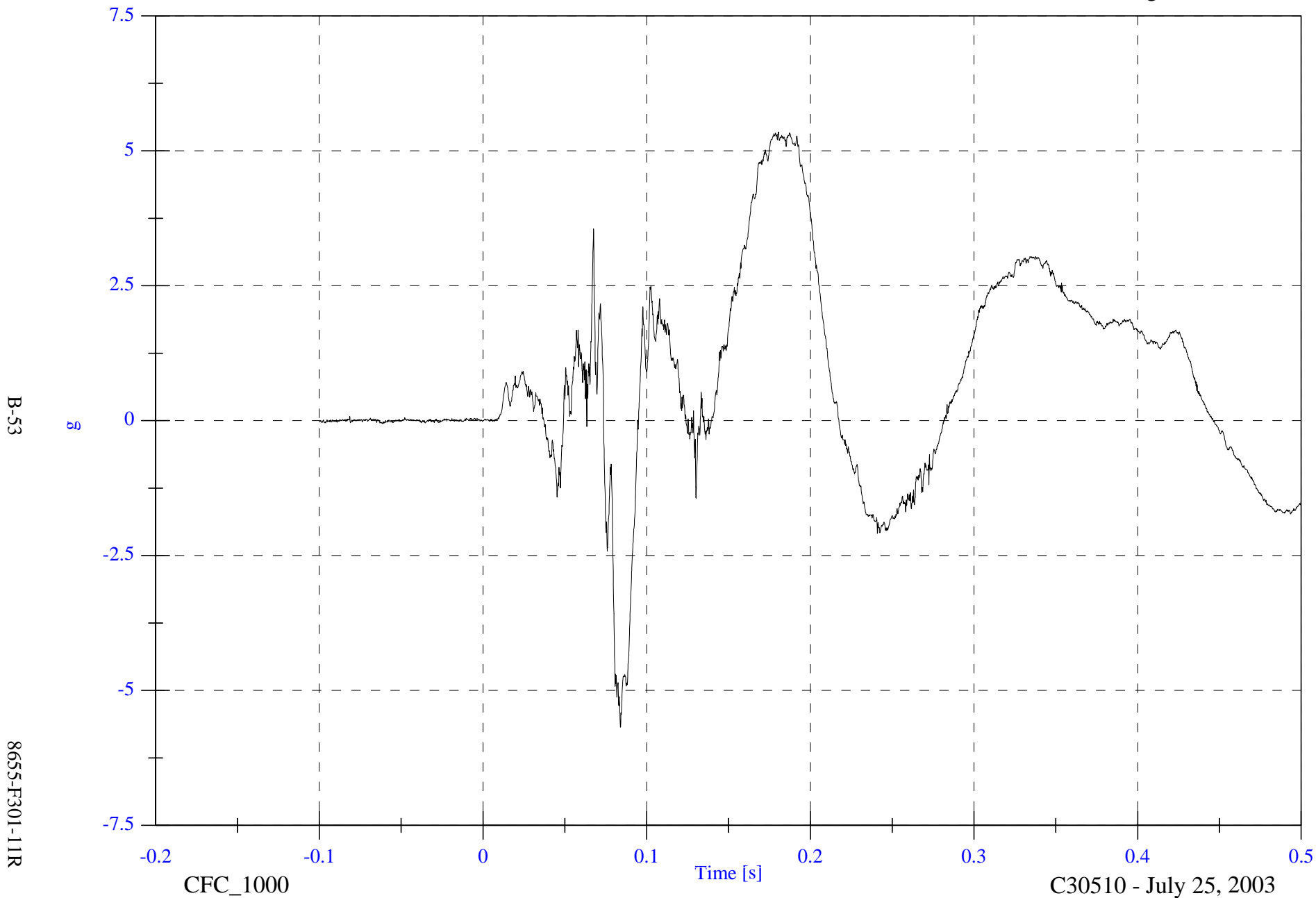


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Head Az

Max: 5.4 [g] at 0.180 [s]

Min: -5.7 [g] at 0.084 [s]



B-53

8655-F301-11R

CFC\_1000

Time [s]

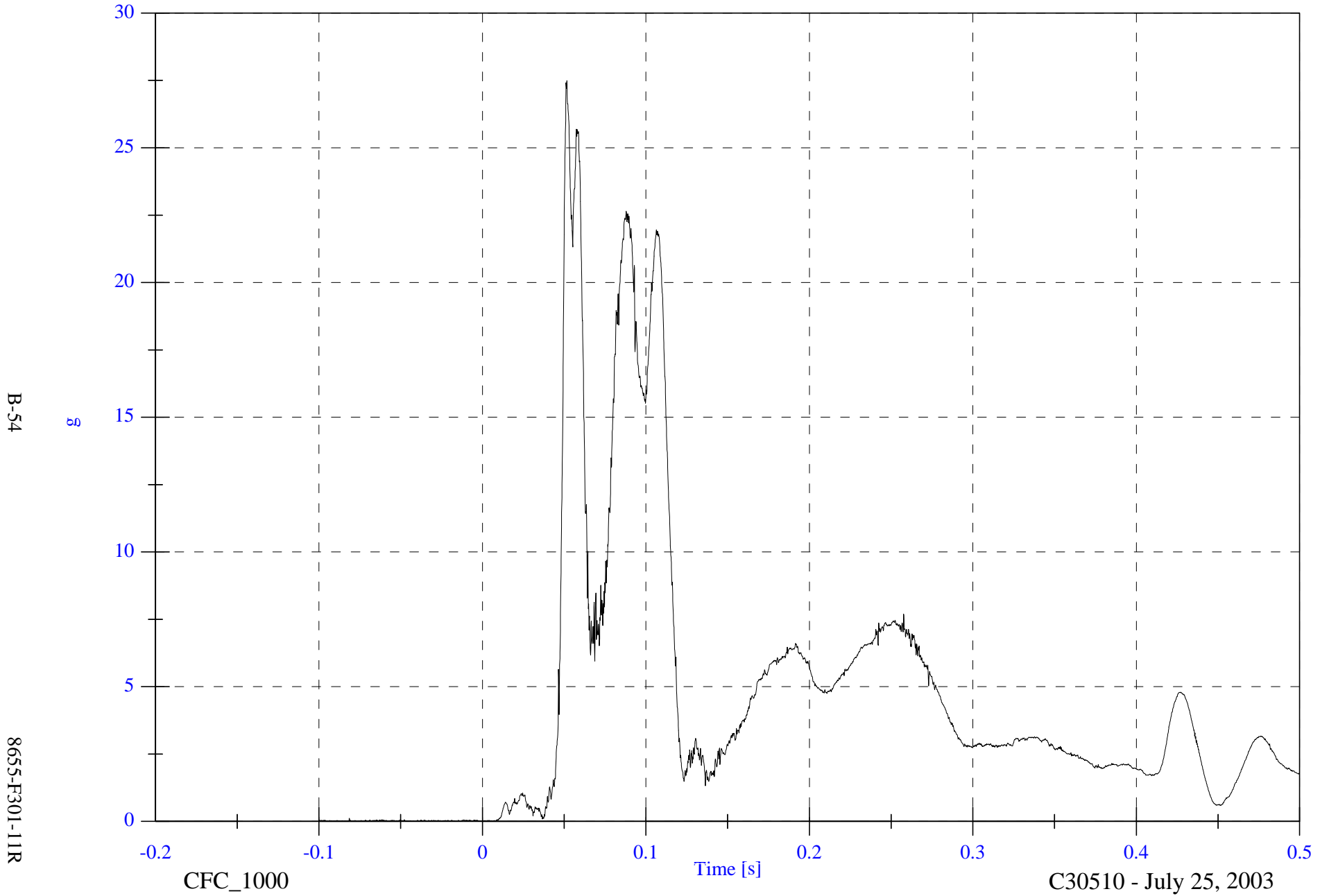
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Head A Resultant

Max: 27.5 [g] at 0.052 [s]

Min: 0.0 [g] at -0.090 [s]

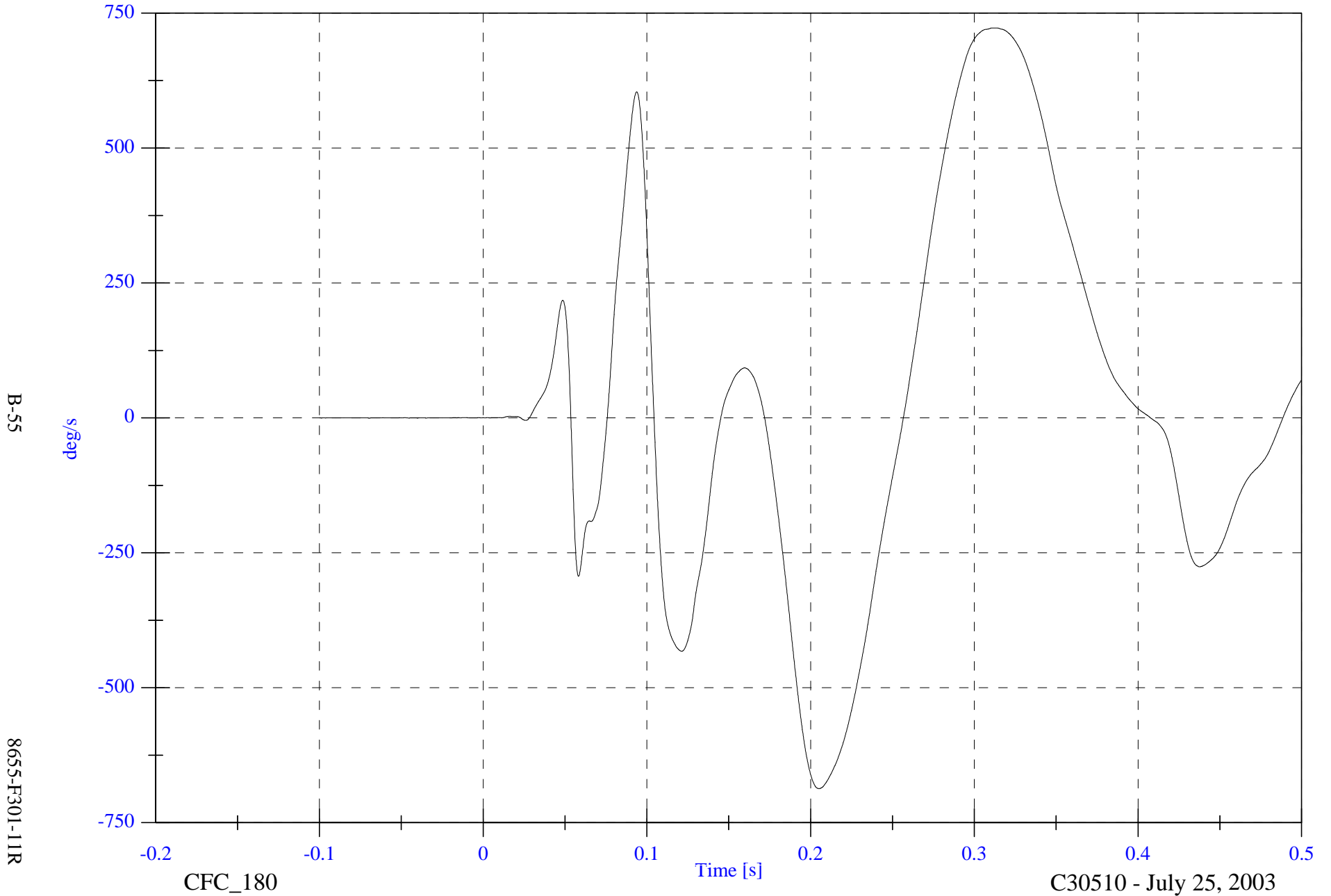


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Head Rotation AVy

Max: 722.5 [deg/s] at 0.313 [s]

Min: -686.9 [deg/s] at 0.205 [s]



B-55

8655-F301-11R

CFC\_180

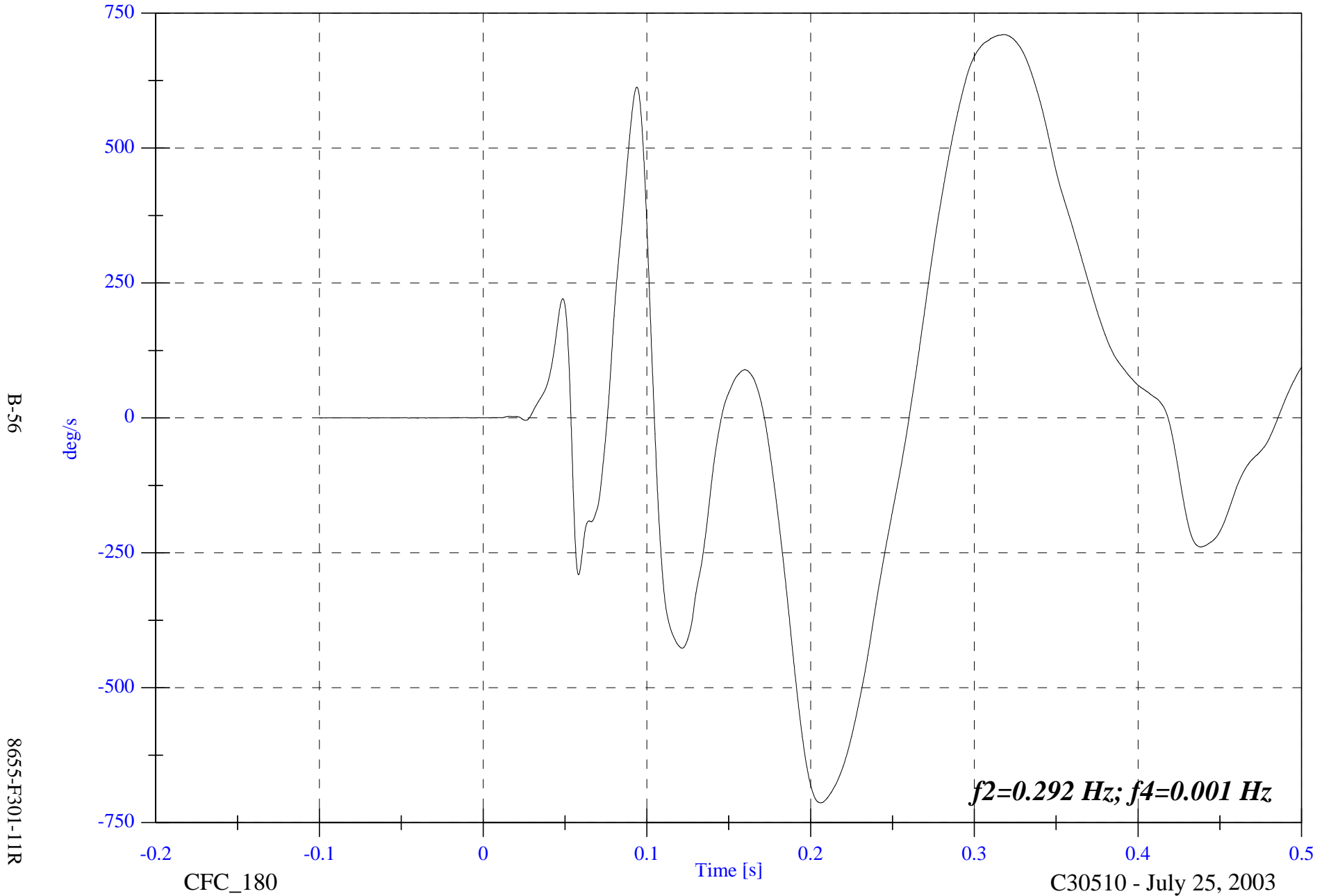
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Head Comp Rotation AVy

Max: 710.2 [deg/s] at 0.318 [s]

Min: -713.3 [deg/s] at 0.206 [s]



B-56

8655-F301-11R

CFC\_180

Time [s]

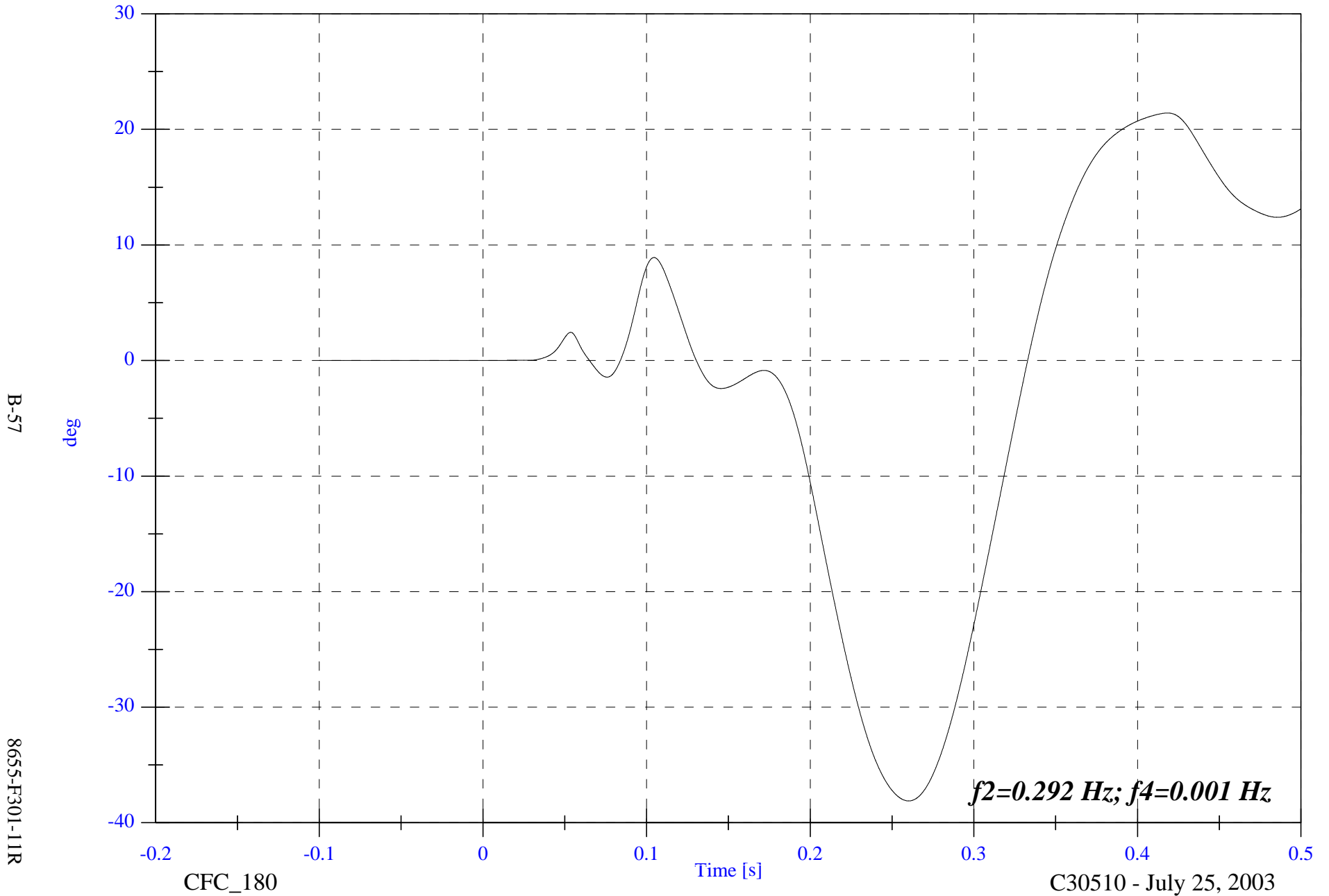
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Head Comp Rotation ADy

Max: 21.4 [deg] at 0.418 [s]

Min: -38.1 [deg] at 0.260 [s]



B-57

8655-F301-11R

CFC\_180

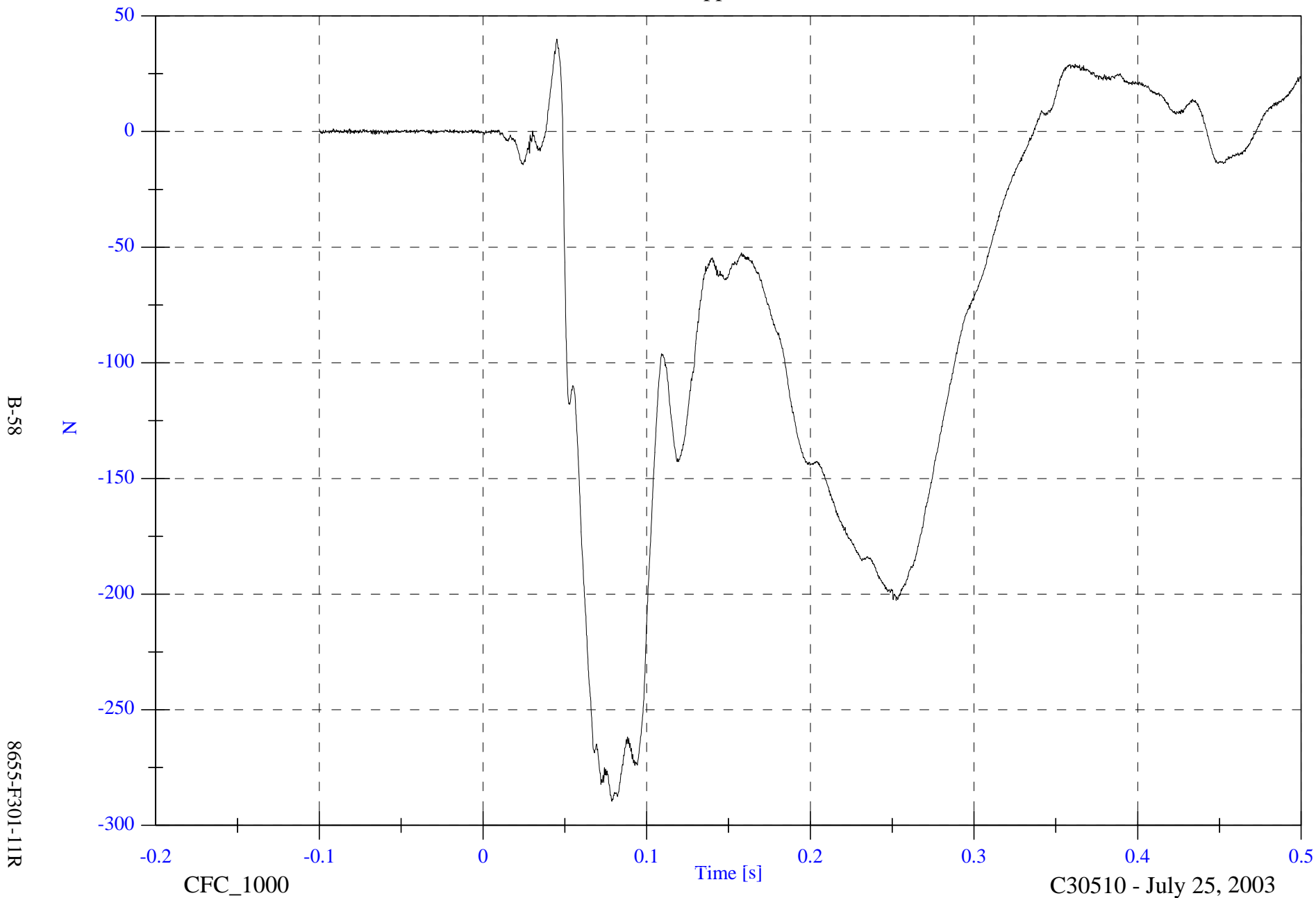
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Upper Neck Fx

Max: 40.0 [N] at 0.045 [s]

Min: -289.5 [N] at 0.079 [s]



B-58

N

8655-F301-11R

CFC\_1000

Time [s]

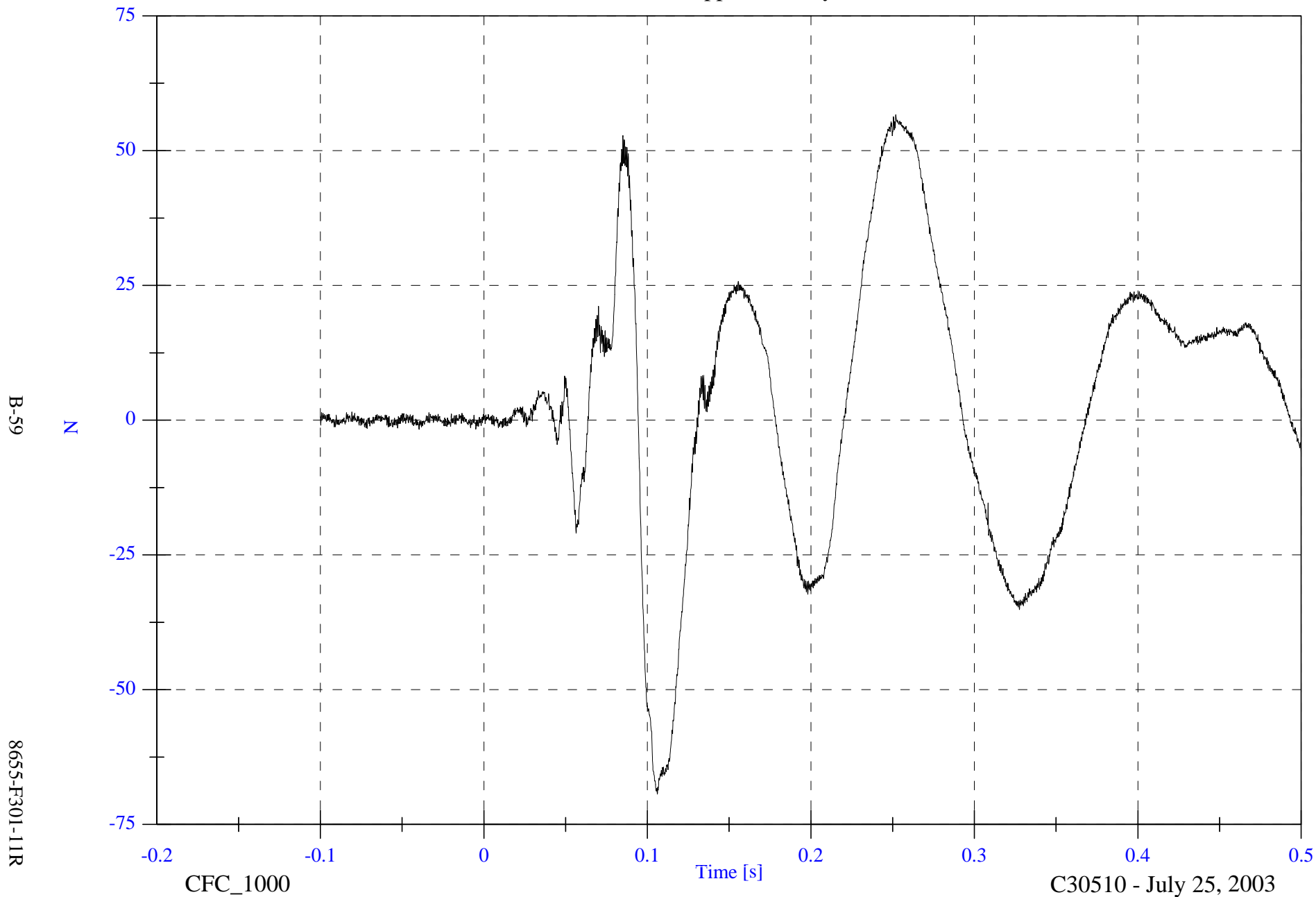
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Upper Neck Fy

Max: 56.7 [N] at 0.252 [s]

Min: -69.4 [N] at 0.106 [s]



B-59

N

8655-F301-11R

CFC\_1000

Time [s]

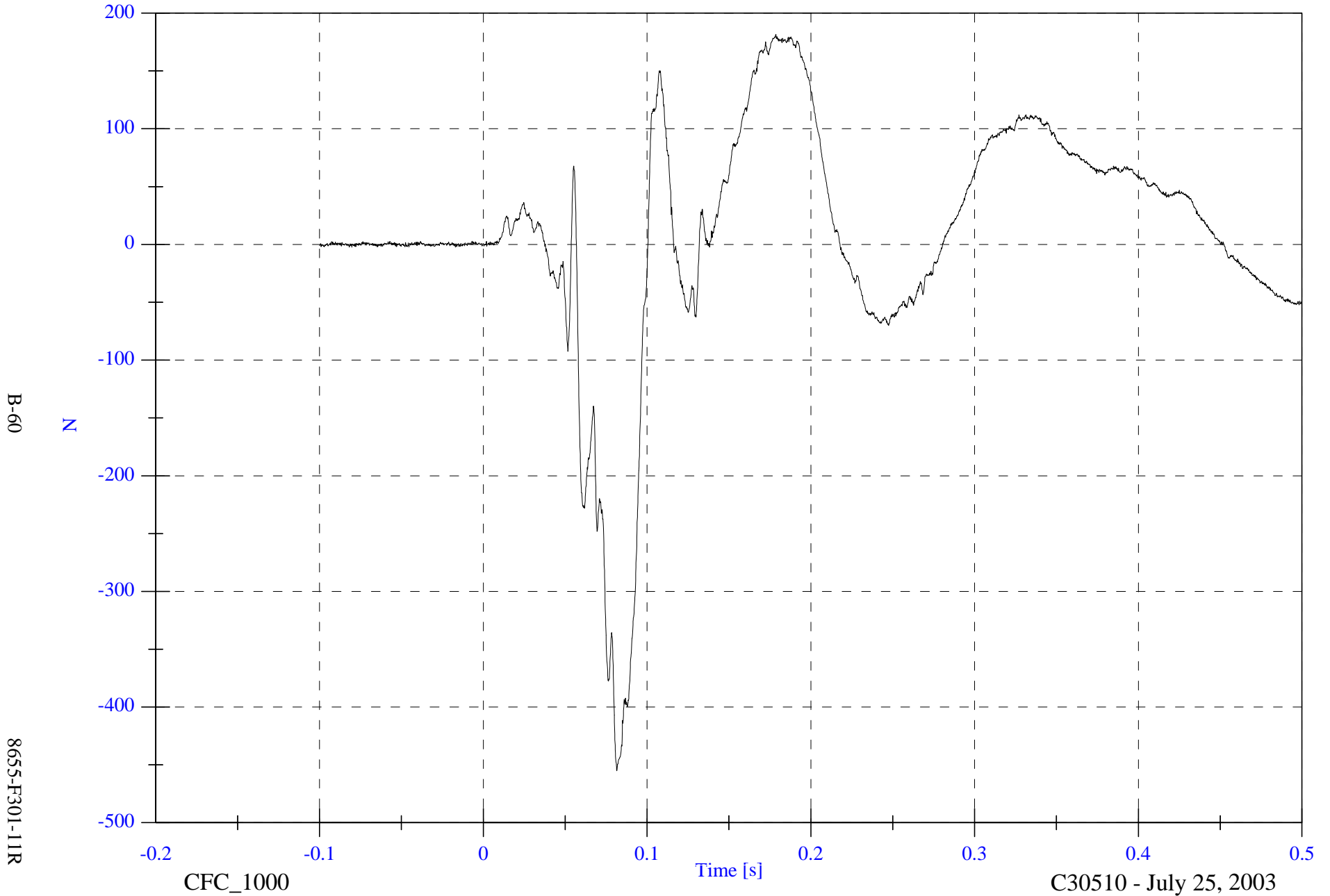
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 181.6 [N] at 0.179 [s]

Min: -455.0 [N] at 0.082 [s]

V2P2 Upper Neck Fz

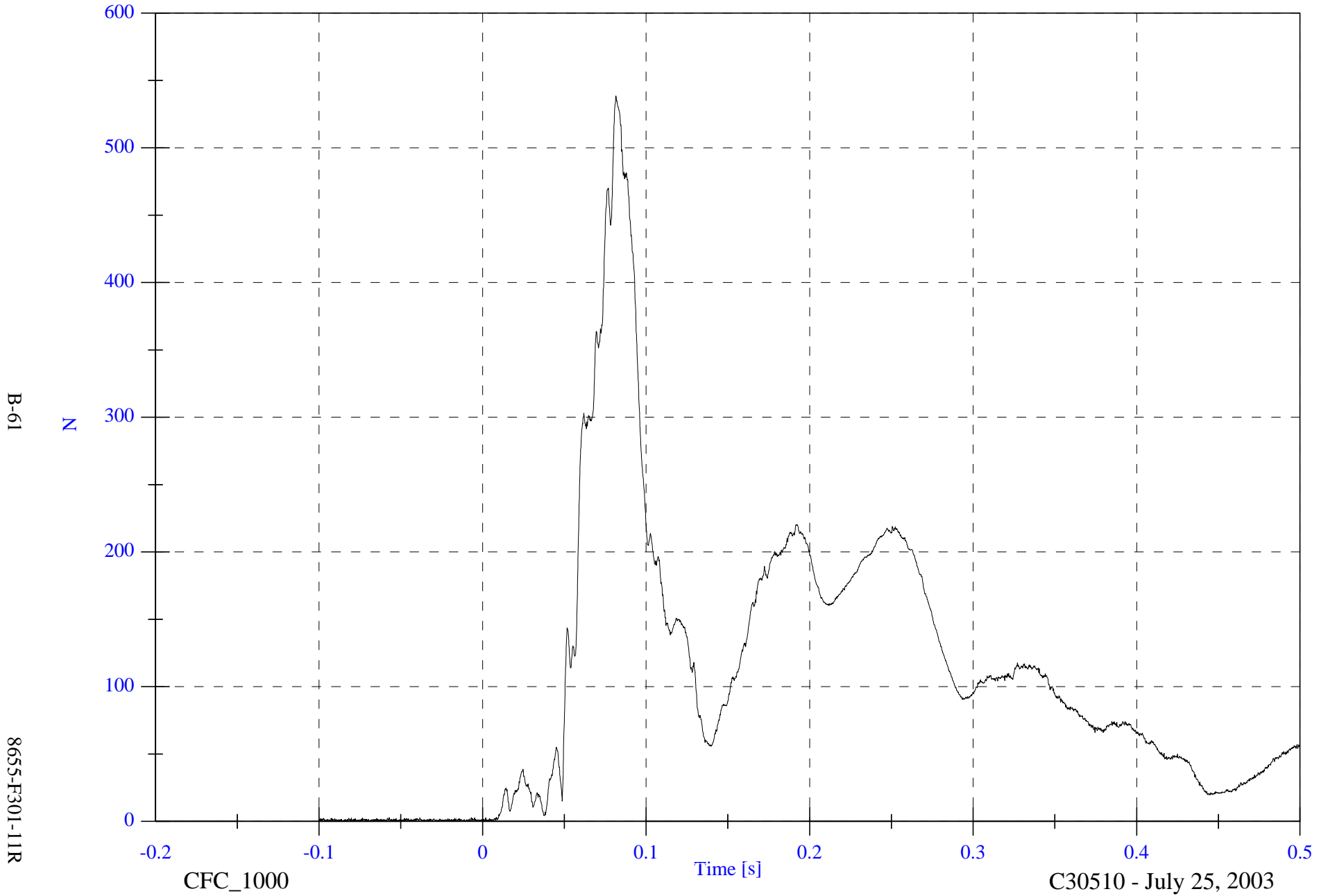


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Upper Neck F Resultant

Max: 538.6 [N] at 0.082 [s]

Min: 0.1 [N] at -0.077 [s]



B-61

8655-F301-11R

CFC\_1000

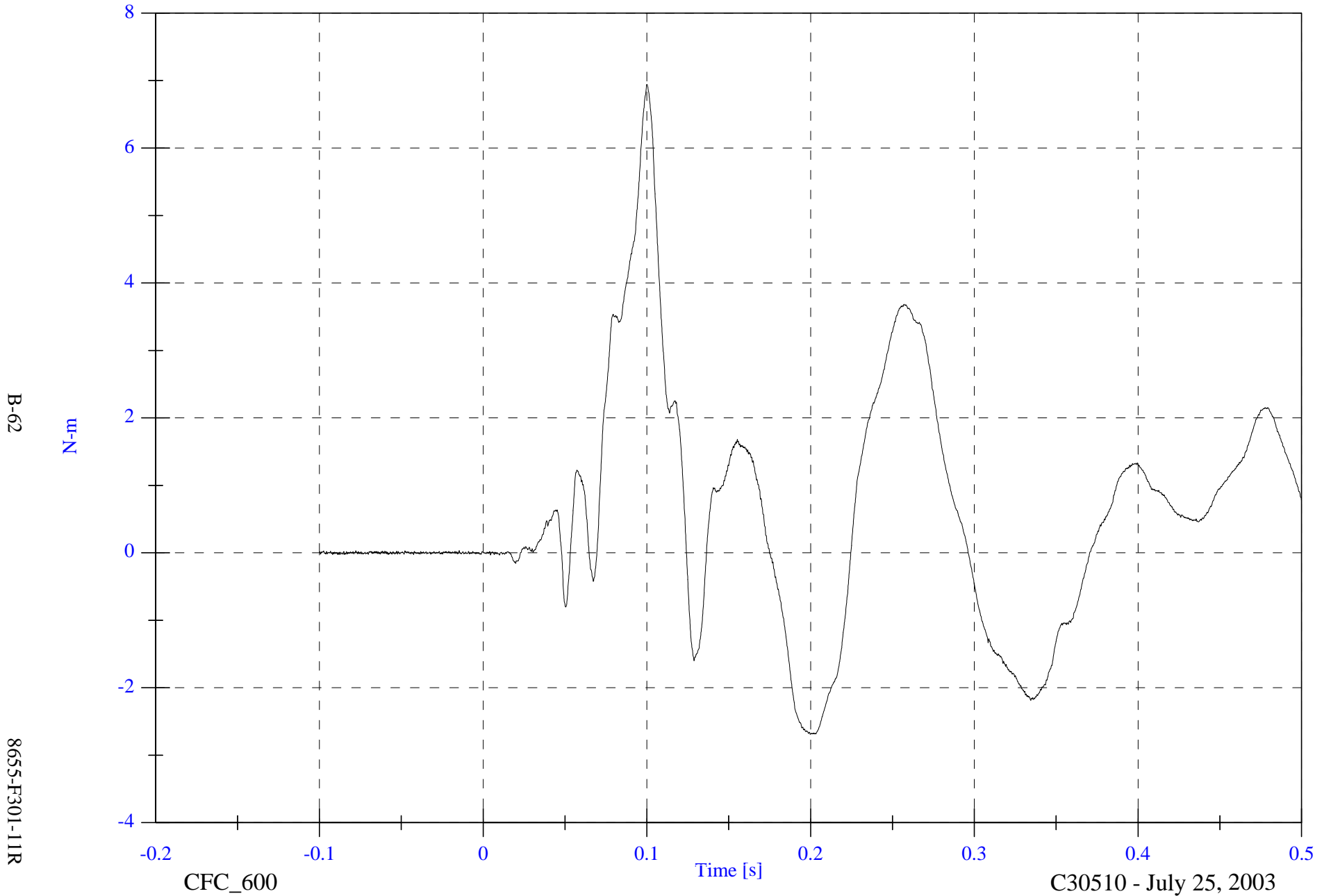
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 6.9 [N-m] at 0.100 [s]

Min: -2.7 [N-m] at 0.200 [s]

V2P2 Upper Neck Mx



B-62

8655-F301-11R

CFC\_600

Time [s]

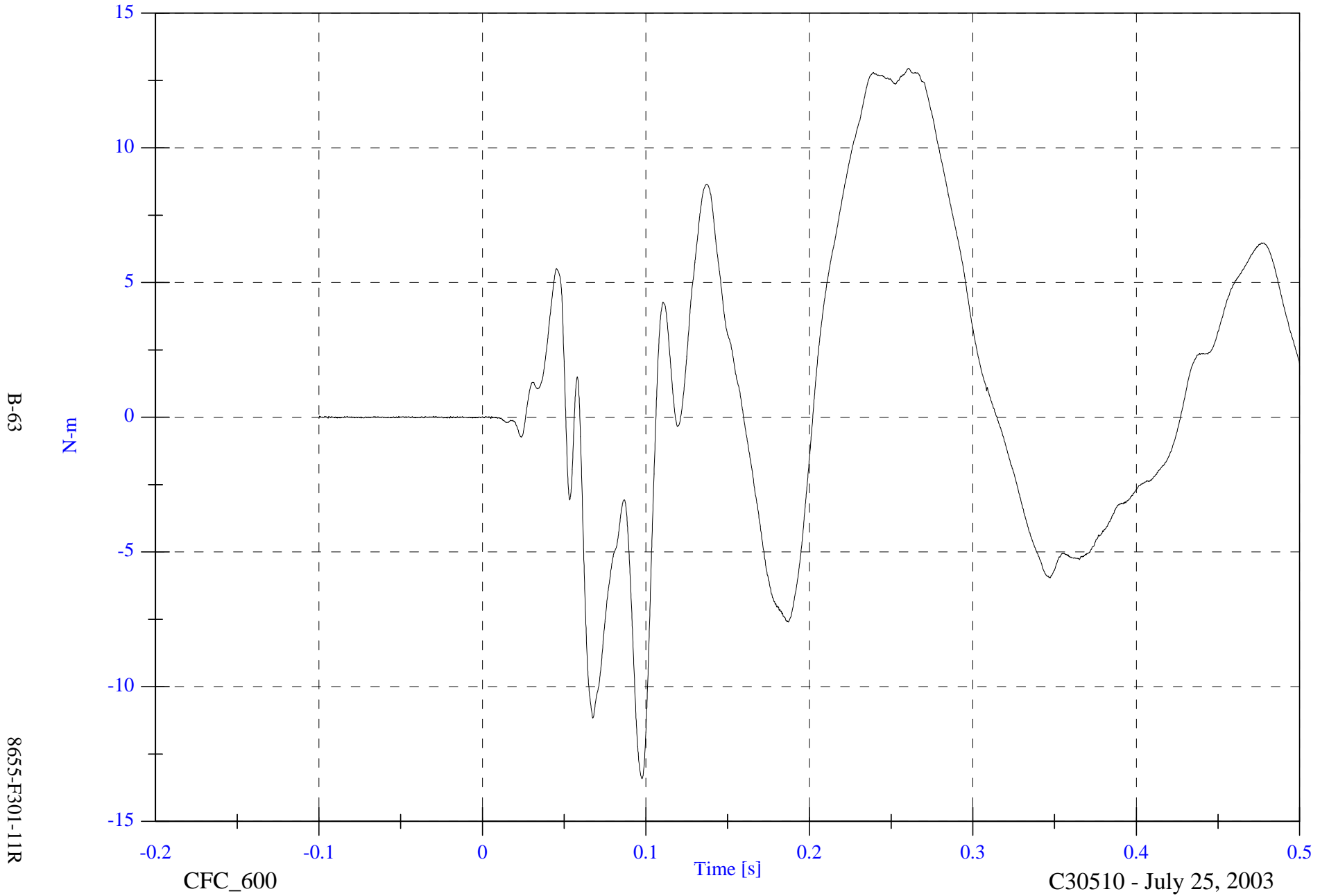
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Upper Neck My

Max: 13.0 [N-m] at 0.261 [s]

Min: -13.4 [N-m] at 0.098 [s]

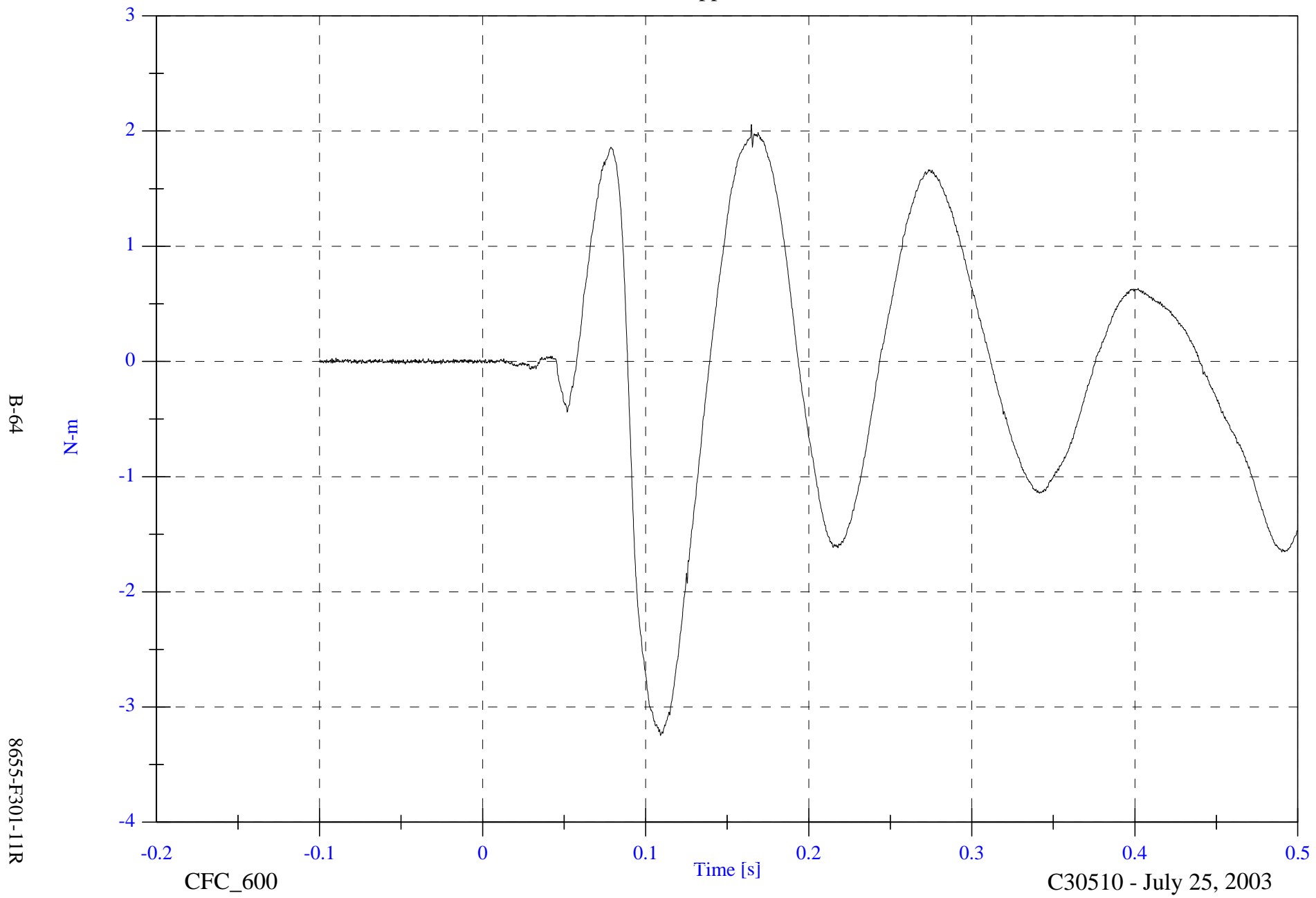


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 2.1 [N-m] at 0.165 [s]

Min: -3.2 [N-m] at 0.109 [s]

V2P2 Upper Neck Mz



B-64

8655-F301-11R

CFC\_600

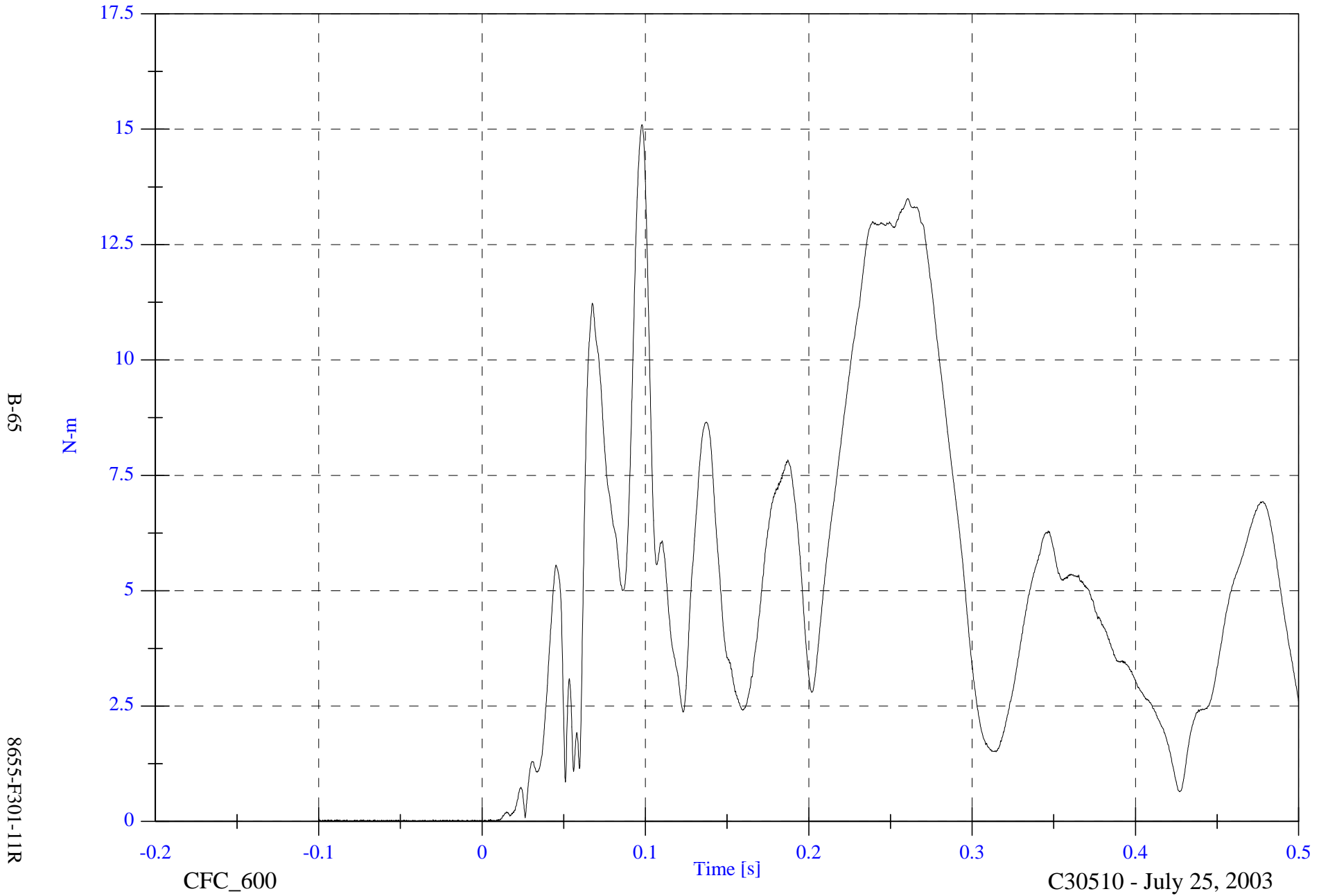
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Upper Neck M Resultant

Max: 15.1 [N-m] at 0.098 [s]

Min: 0.0 [N-m] at -0.014 [s]



B-65

8655-F301-11R

CFC\_600

Time [s]

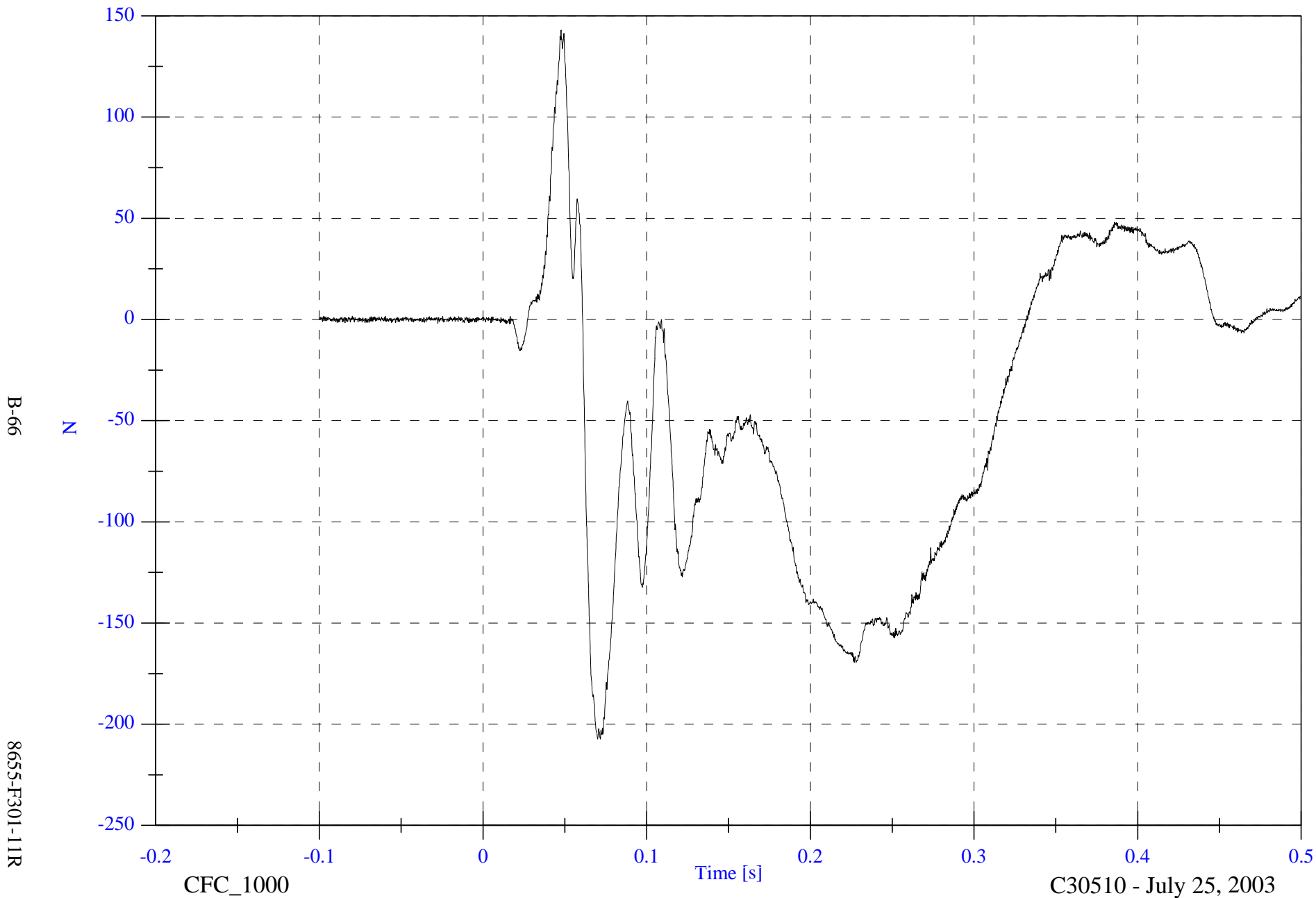
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Lower Neck Fx

Max: 143.1 [N] at 0.048 [s]

Min: -207.4 [N] at 0.072 [s]



B-66

8655-F301-11R

CFC\_1000

Time [s]

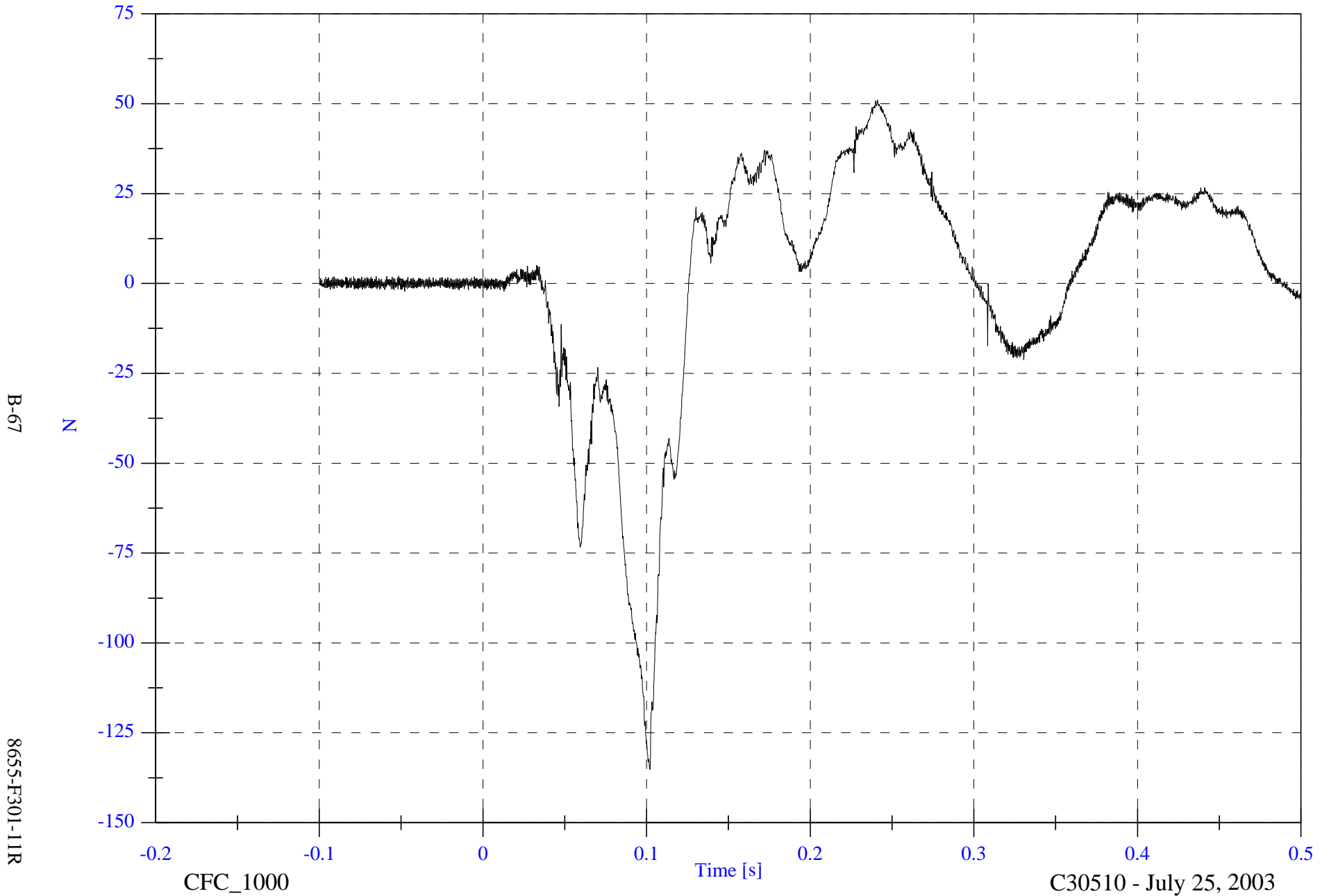
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Lower Neck Fy

Max: 51.0 [N] at 0.241 [s]

Min: -135.2 [N] at 0.102 [s]



B-67

8655-F301-11R

CFC\_1000

Time [s]

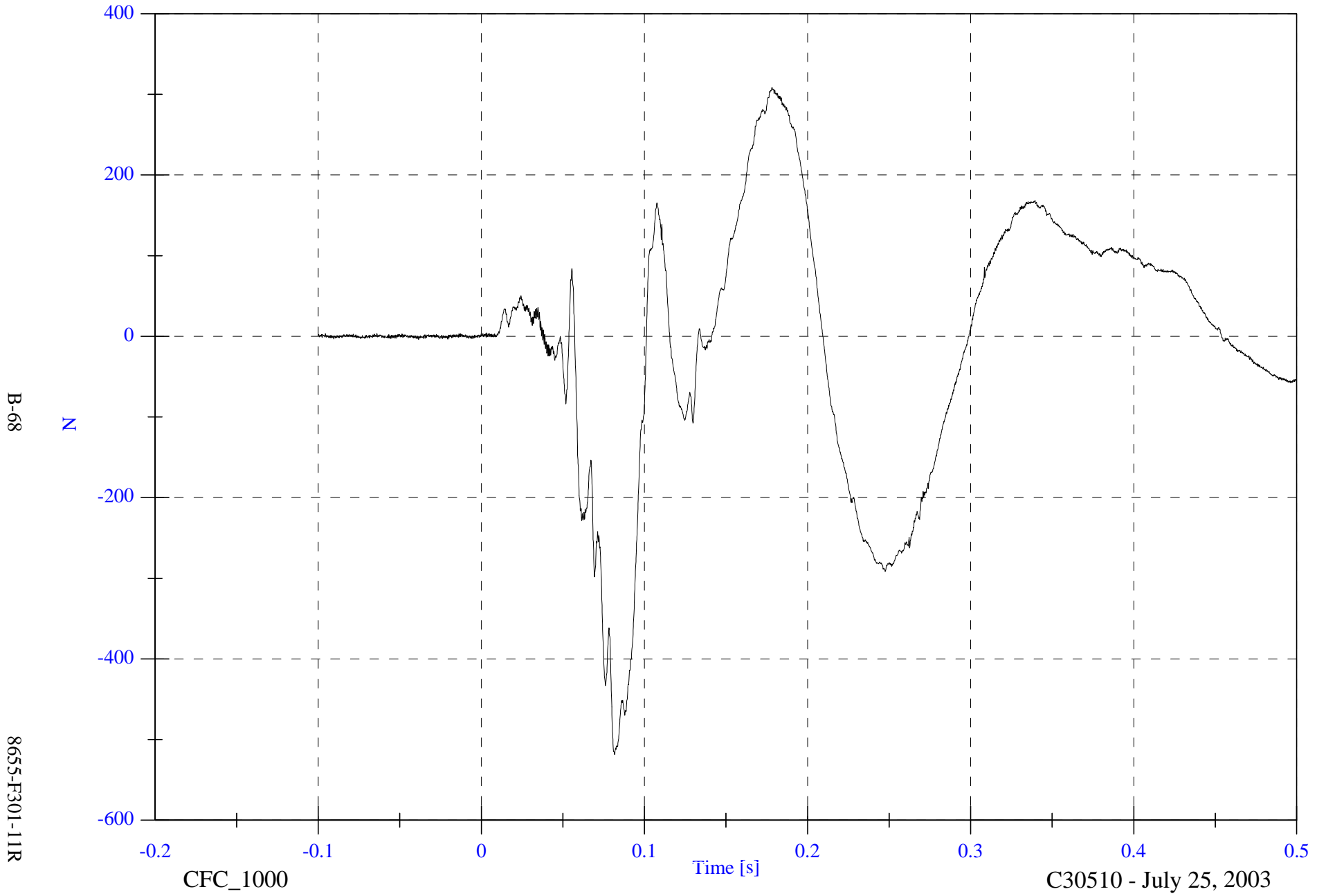
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 308.5 [N] at 0.178 [s]

Min: -518.6 [N] at 0.082 [s]

V2P2 Lower Neck Fz



B-68

8655-F301-11R

CFC\_1000

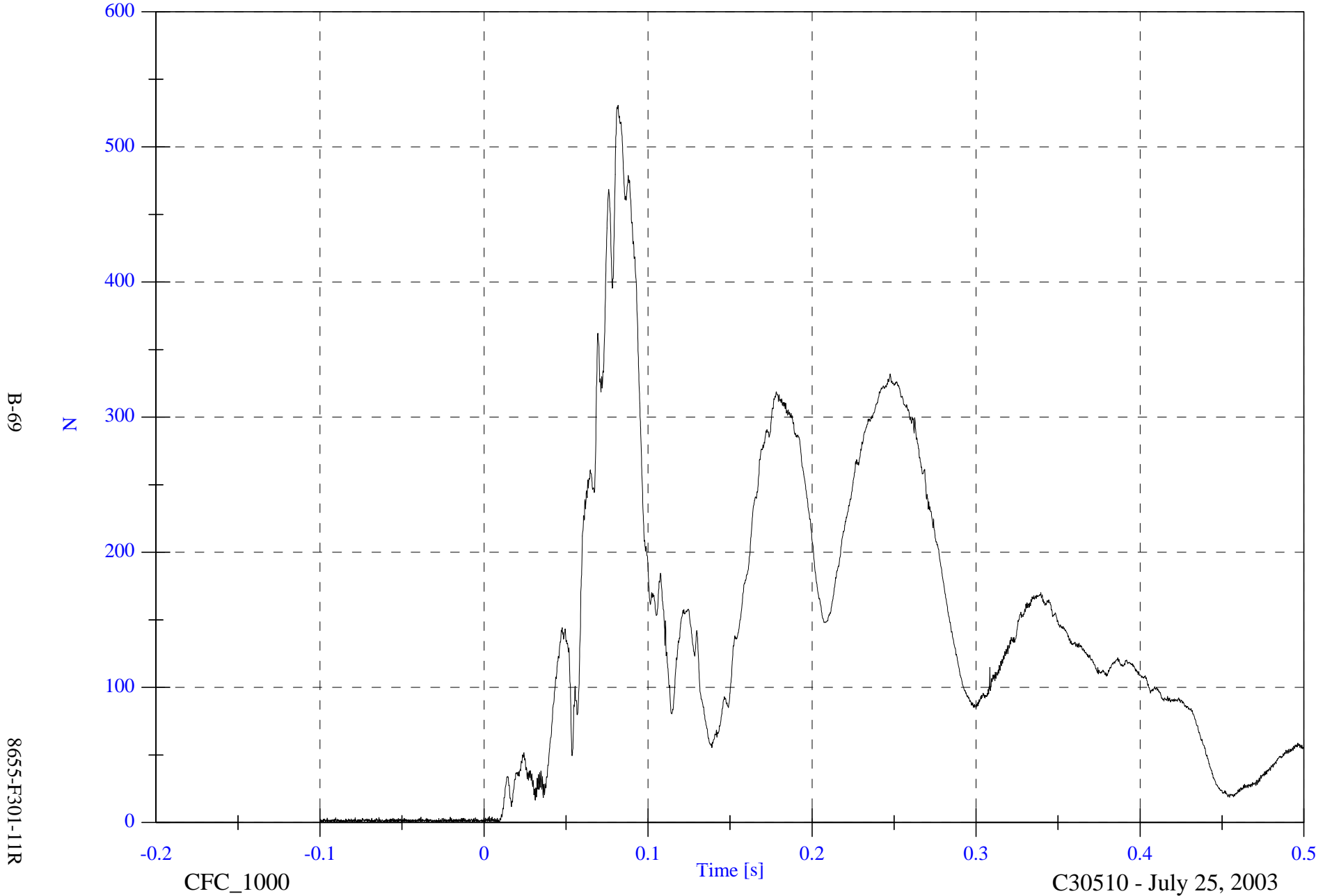
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Lower Neck F Resultant

Max: 530.8 [N] at 0.082 [s]

Min: 0.1 [N] at -0.041 [s]



B-69

8655-F301-11R

CFC\_1000

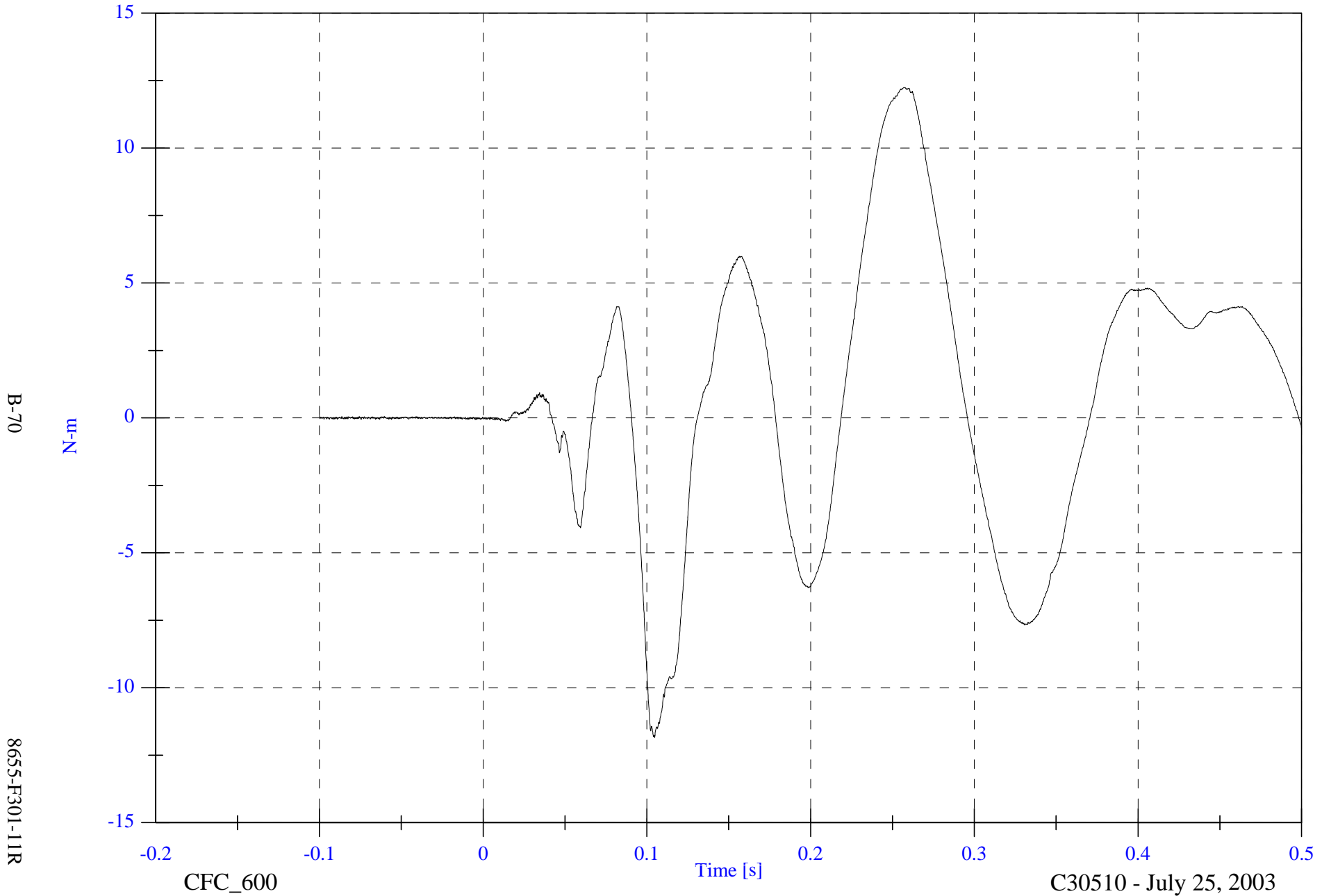
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Lower Neck Mx

Max: 12.2 [N-m] at 0.258 [s]

Min: -11.8 [N-m] at 0.105 [s]



B-70

N-m

8655-F301-11R

CFC\_600

Time [s]

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

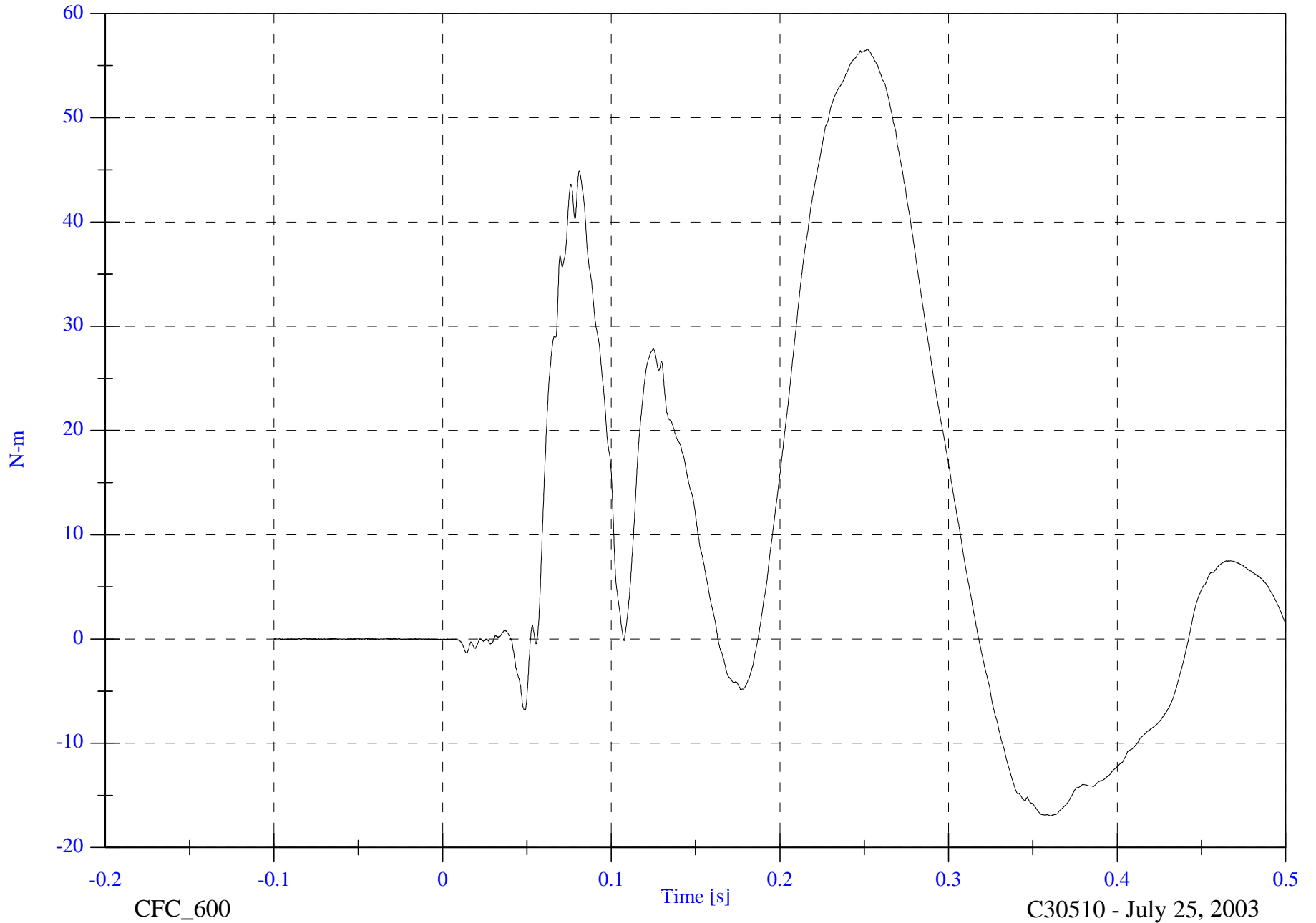
V2P2 Lower Neck My

Max: 56.6 [N-m] at 0.252 [s]

Min: -17.0 [N-m] at 0.360 [s]

B-71

8655-F301-11R



CFC\_600

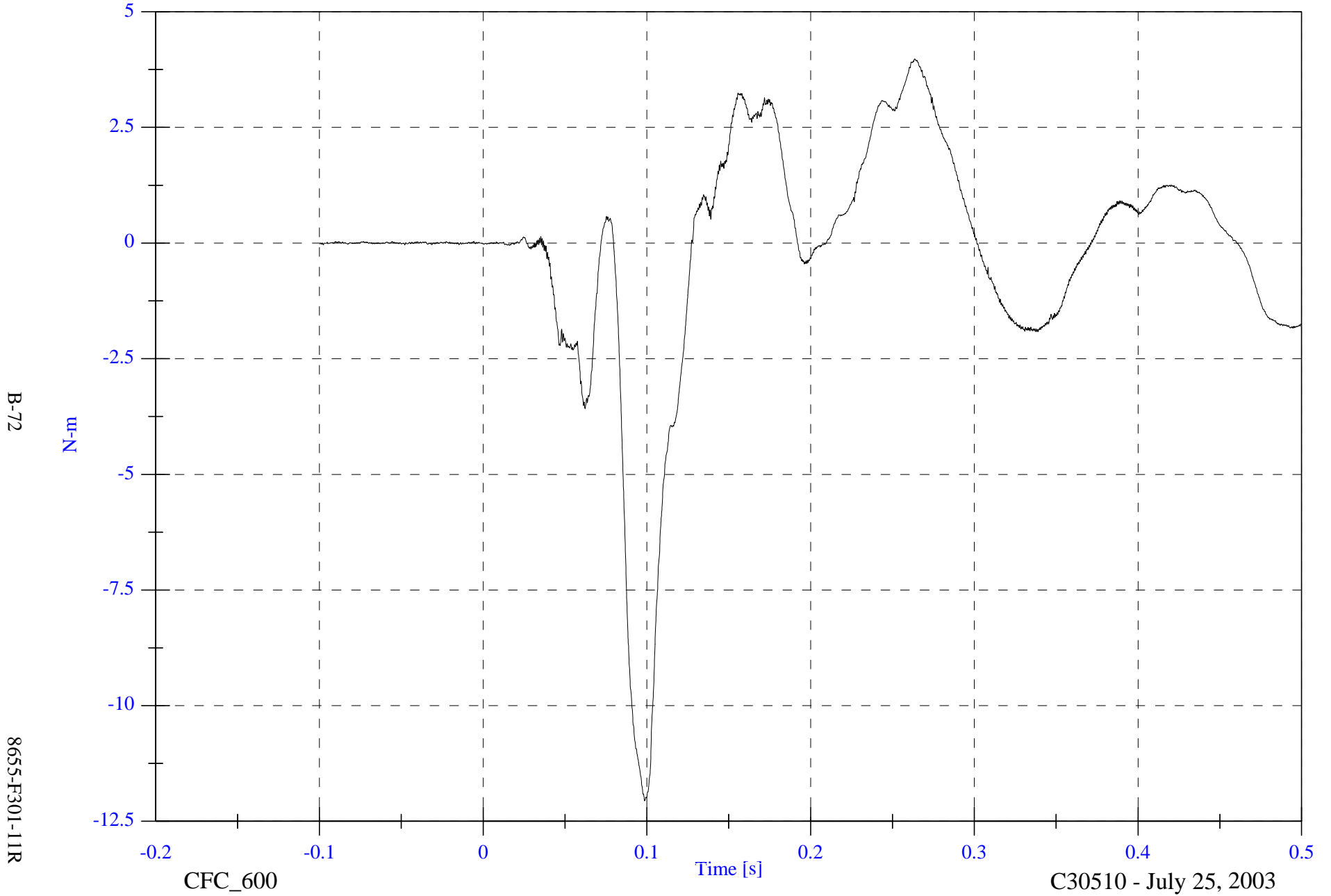
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Lower Neck Mz

Max: 4.0 [N-m] at 0.264 [s]

Min: -12.1 [N-m] at 0.099 [s]



B-72

8655-F301-11R

CFC\_600

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

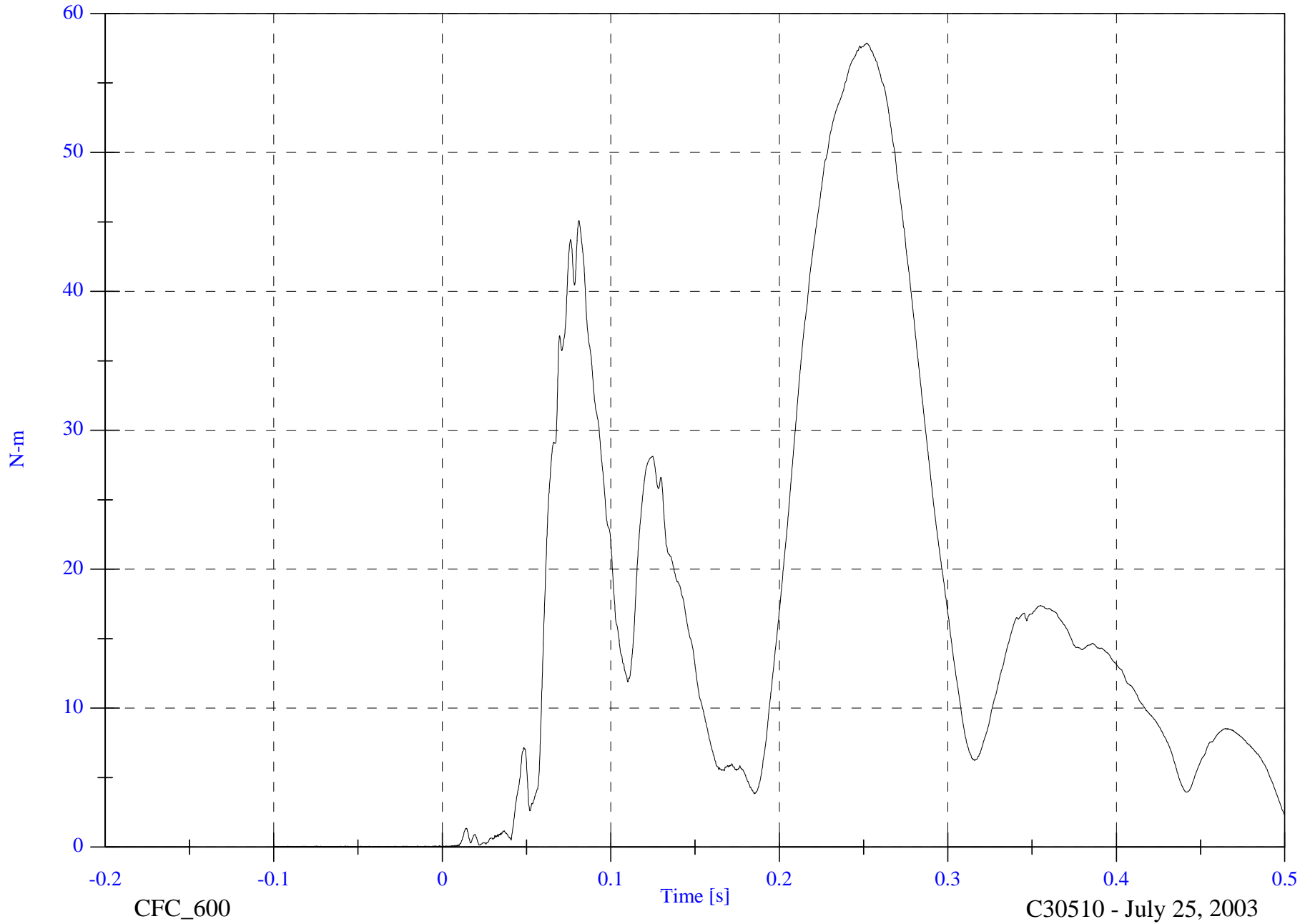
V2P2 Lower Neck M Resultant

Max: 57.9 [N-m] at 0.252 [s]

Min: 0.0 [N-m] at -0.062 [s]

B-73

8655-F301-11R

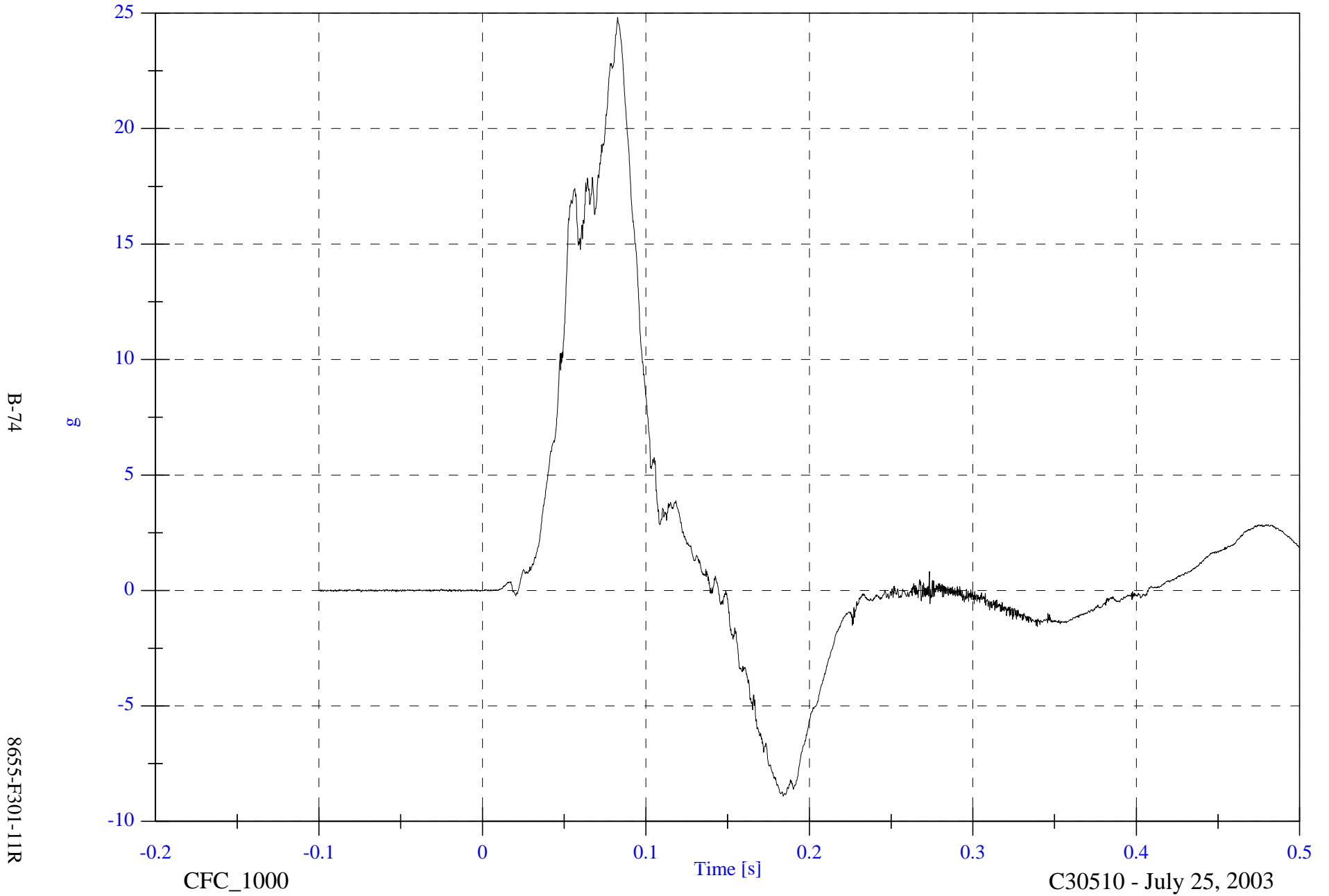


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 24.8 [g] at 0.083 [s]

Min: -8.9 [g] at 0.184 [s]

V2P2 Lower Neck x

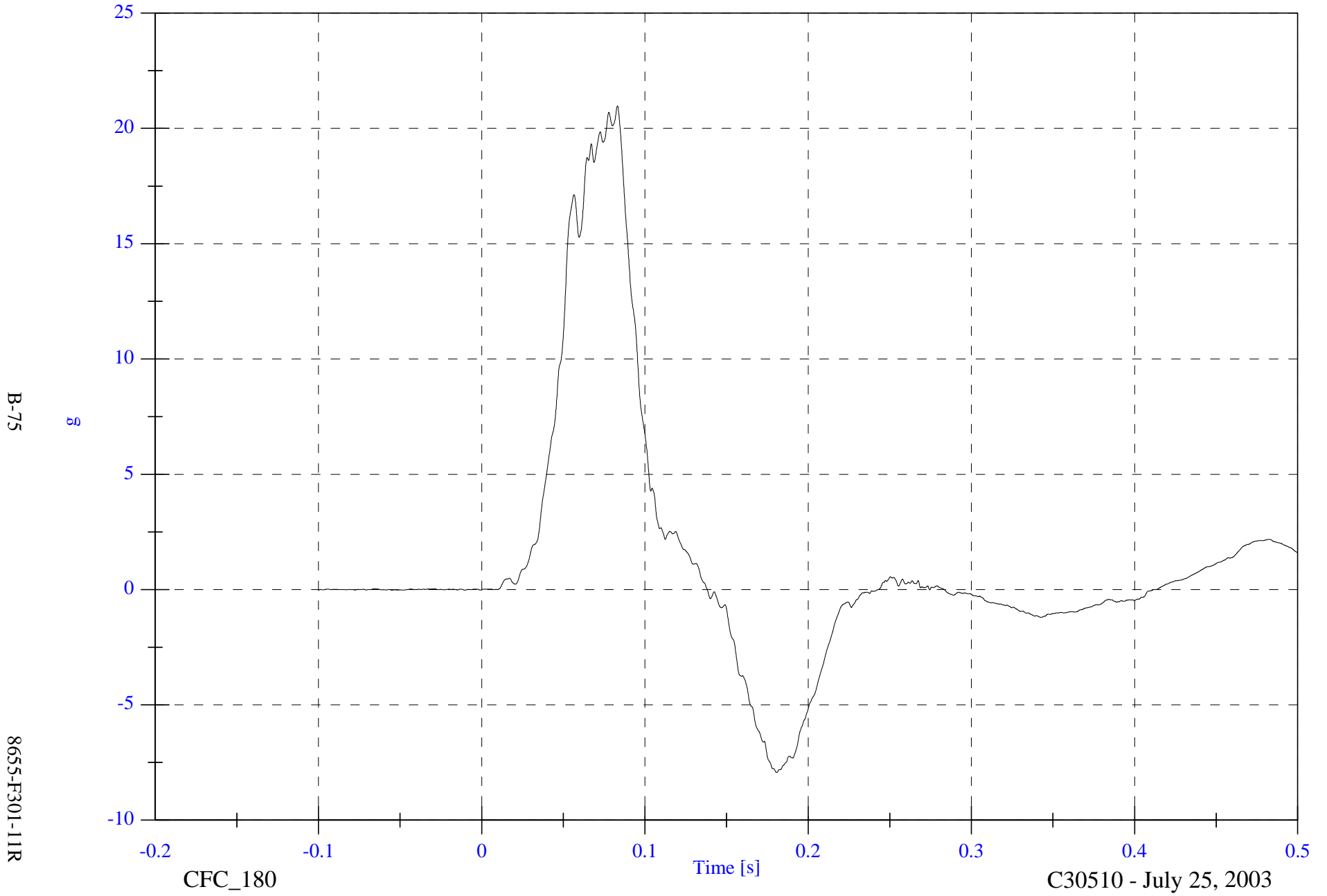


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Chest Ax

Max: 21.0 [g] at 0.083 [s]

Min: -7.9 [g] at 0.181 [s]



B-75

g

8655-F301-11R

CFC\_180

Time [s]

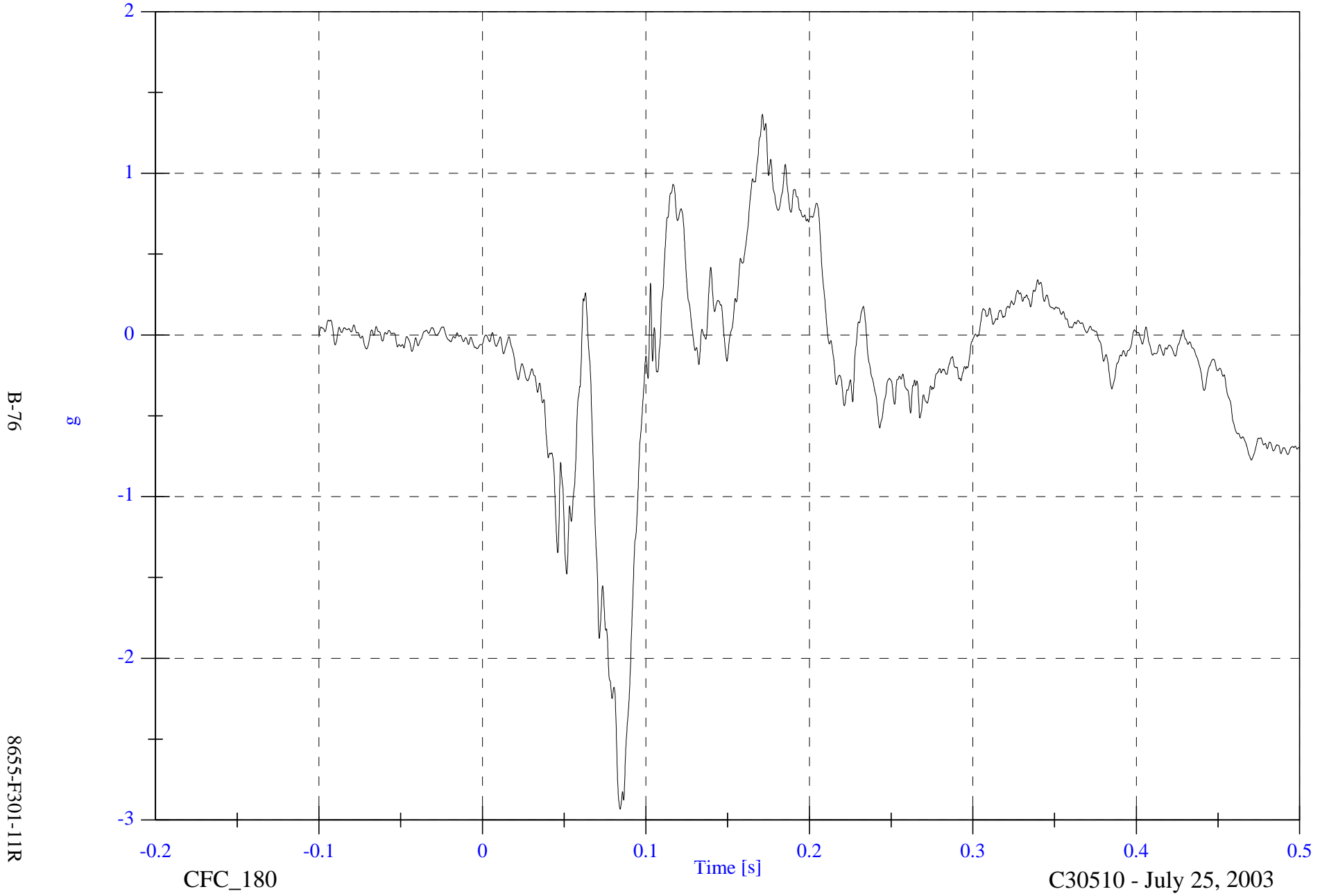
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Chest Ay

Max: 1.4 [g] at 0.171 [s]

Min: -2.9 [g] at 0.084 [s]



B-76

g

8655-F301-11R

CFC\_180

Time [s]

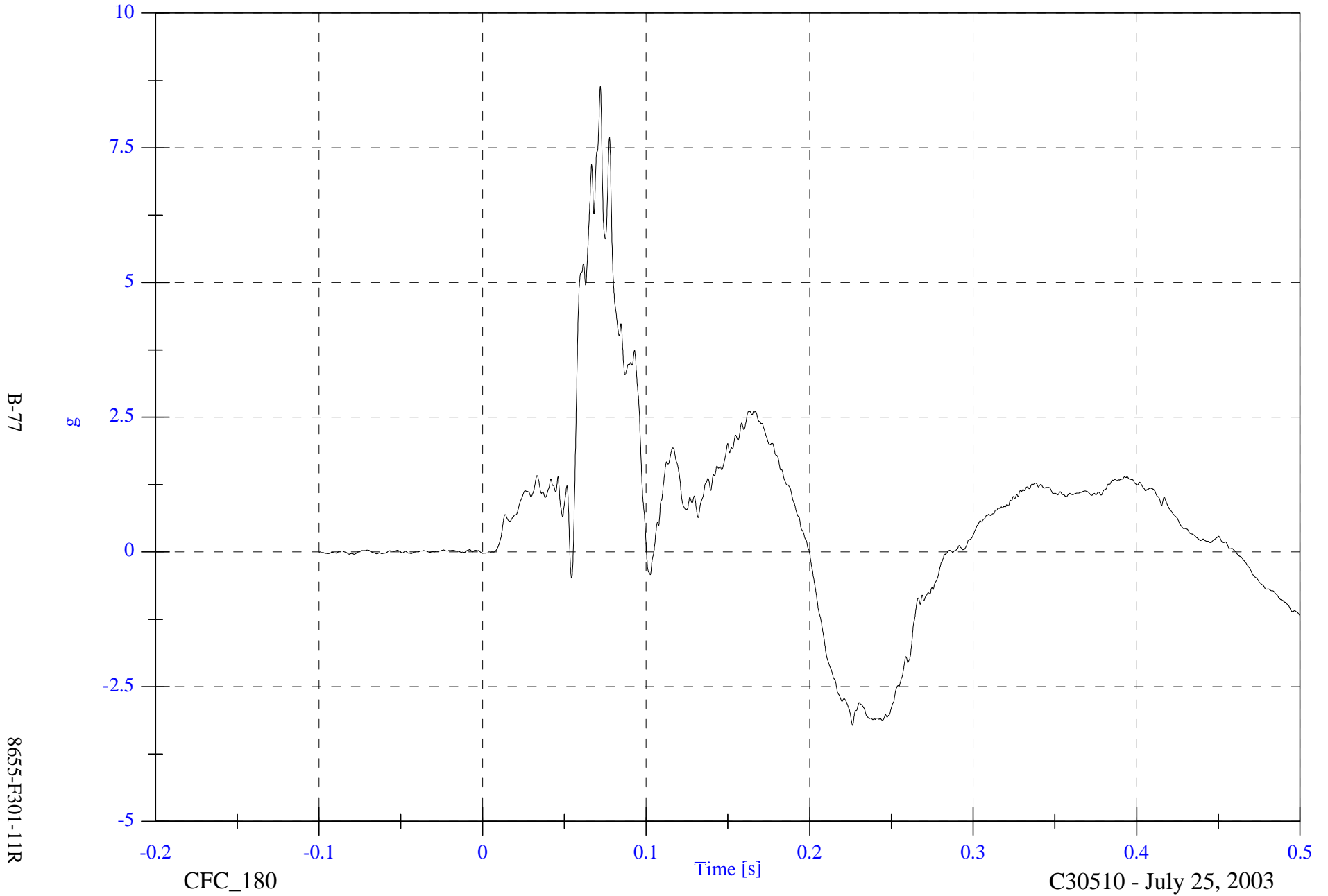
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Chest Az

Max: 8.6 [g] at 0.072 [s]

Min: -3.2 [g] at 0.226 [s]

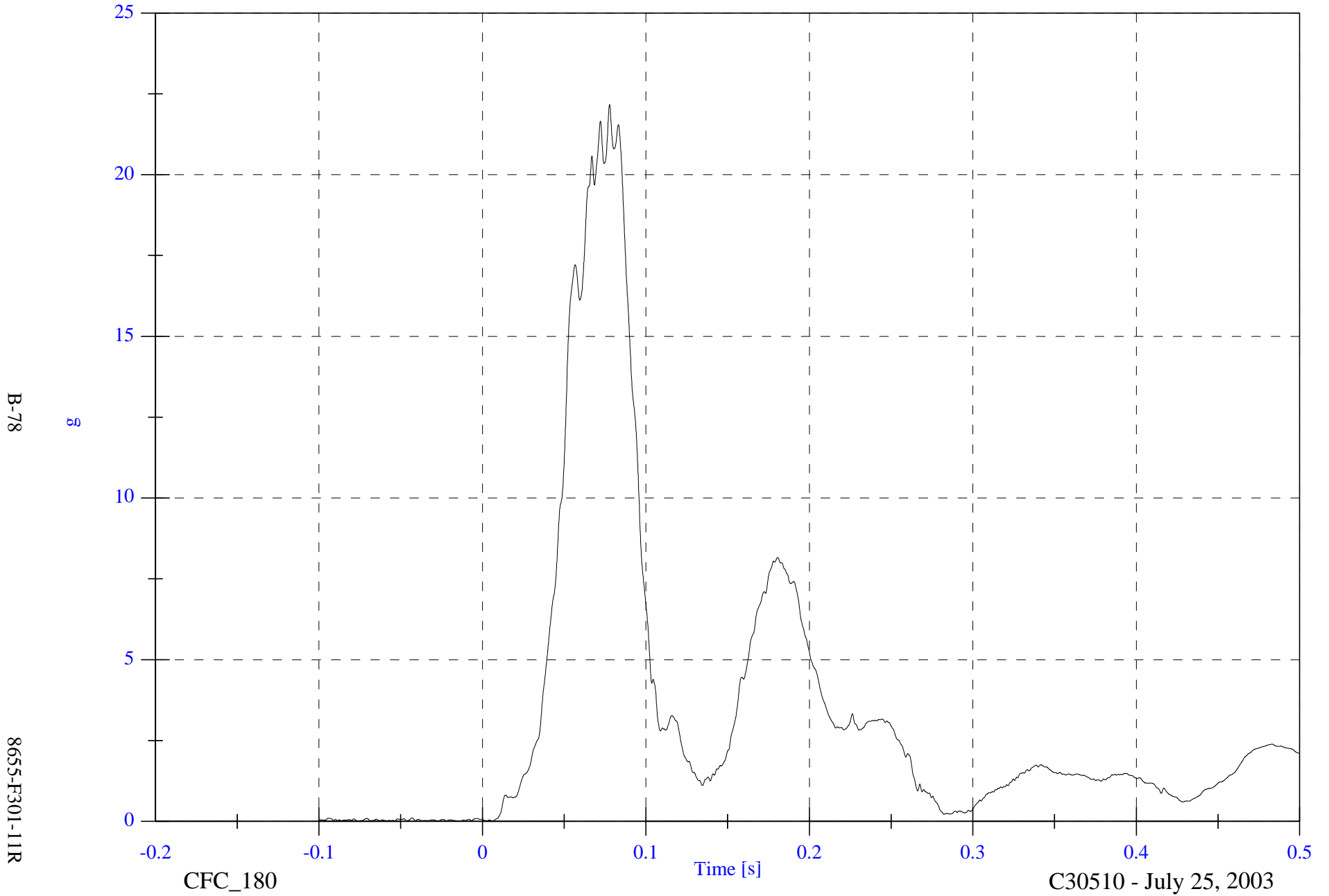


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Chest A Resultant

Max: 22.2 [g] at 0.078 [s]

Min: 0.0 [g] at -0.014 [s]

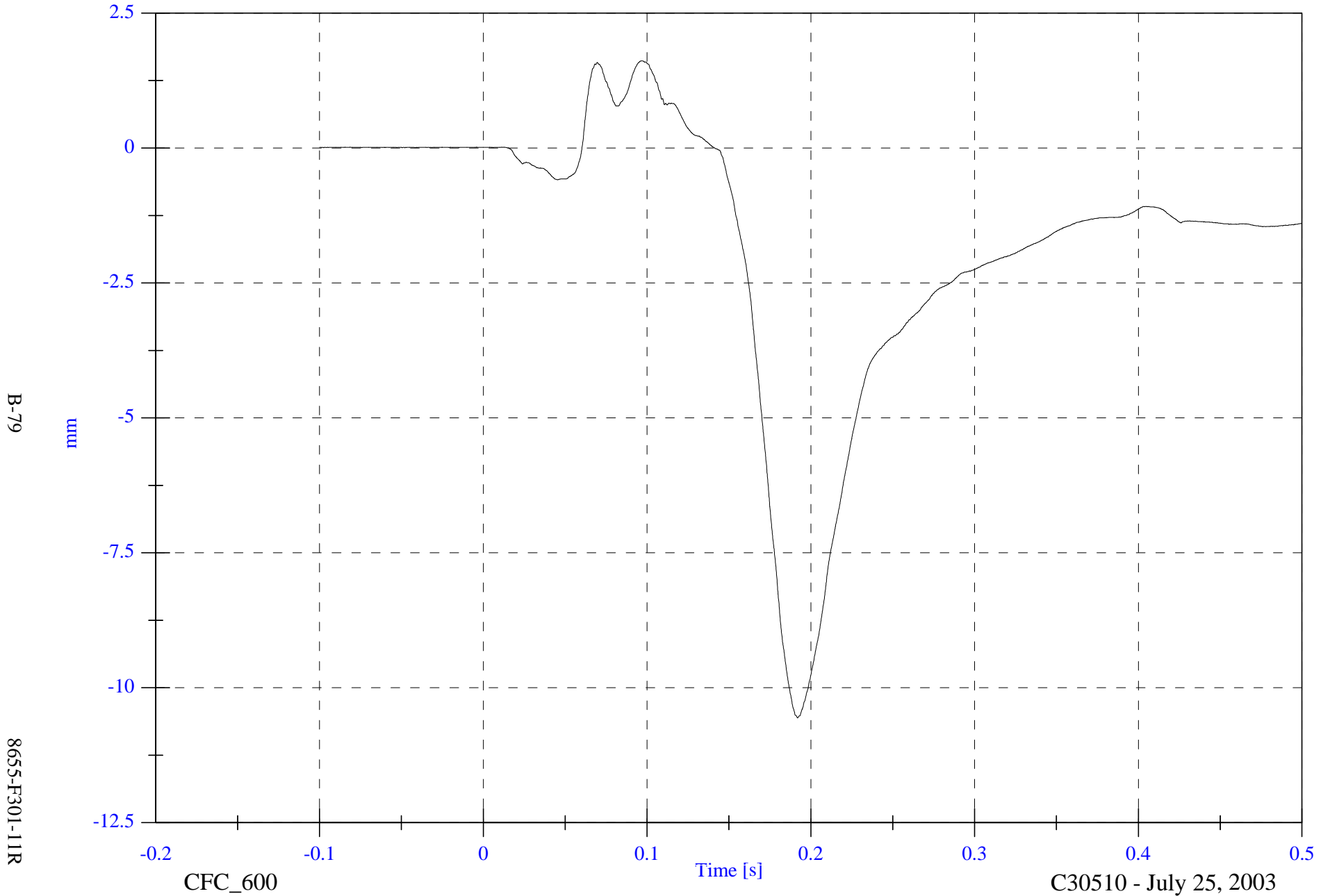


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 1.6 [mm] at 0.097 [s]

Min: -10.6 [mm] at 0.192 [s]

### V2P2 Chest Displacement



B-79

mm

8655-F301-11R

CFC\_600

Time [s]

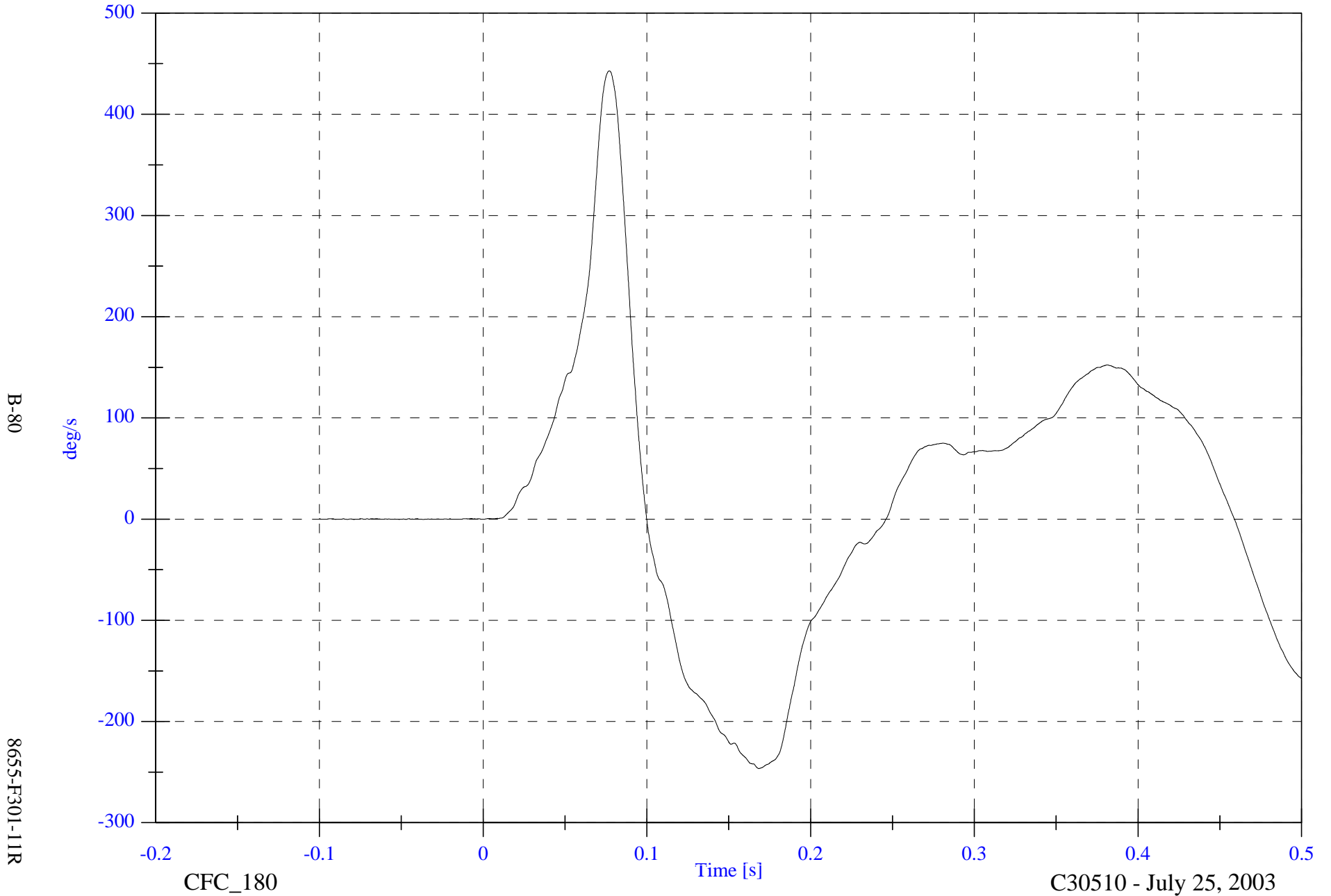
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Chest Rotation AVy

Max: 442.9 [deg/s] at 0.077 [s]

Min: -246.6 [deg/s] at 0.168 [s]



B-80

8655-F301-11R

CFC\_180

Time [s]

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

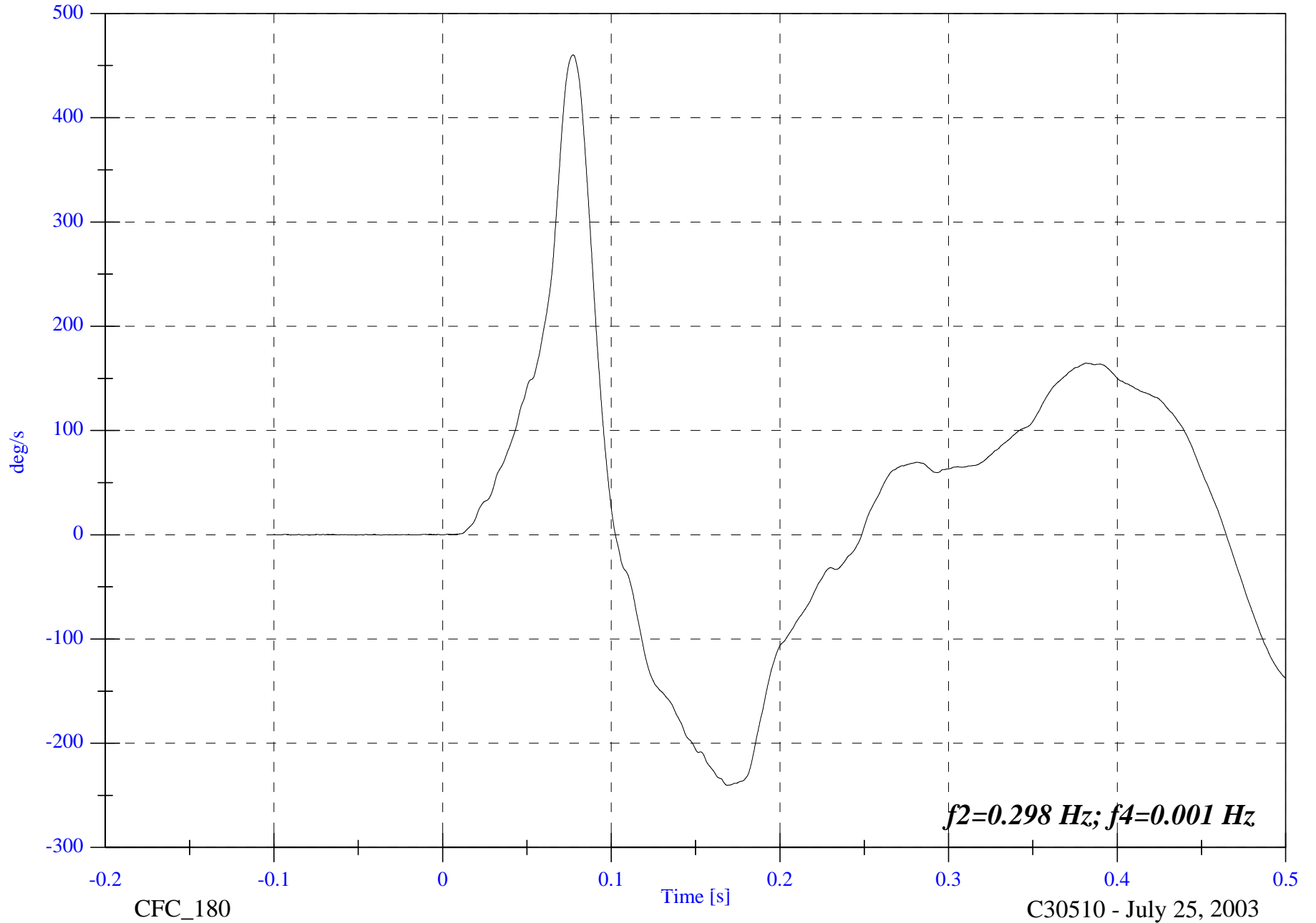
V2P2 Chest Comp Rotation AVy

Max: 460.3 [deg/s] at 0.077 [s]

Min: -240.3 [deg/s] at 0.169 [s]

B-81

8655-F301-11R



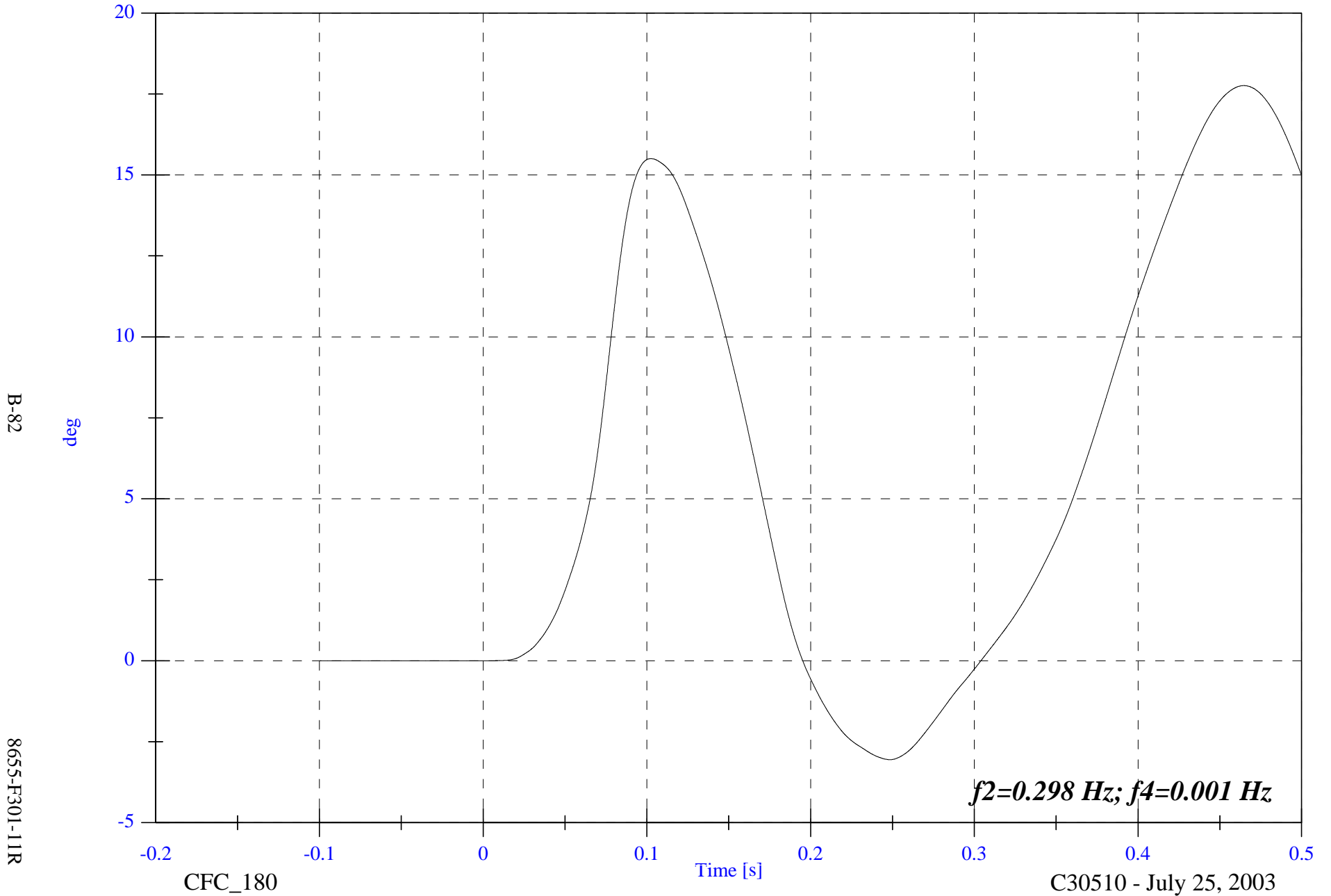
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Chest Comp Rotation ADy

Max: 17.8 [deg] at 0.465 [s]

Min: -3.1 [deg] at 0.249 [s]



B-82

8655-F301-11R

CFC\_180

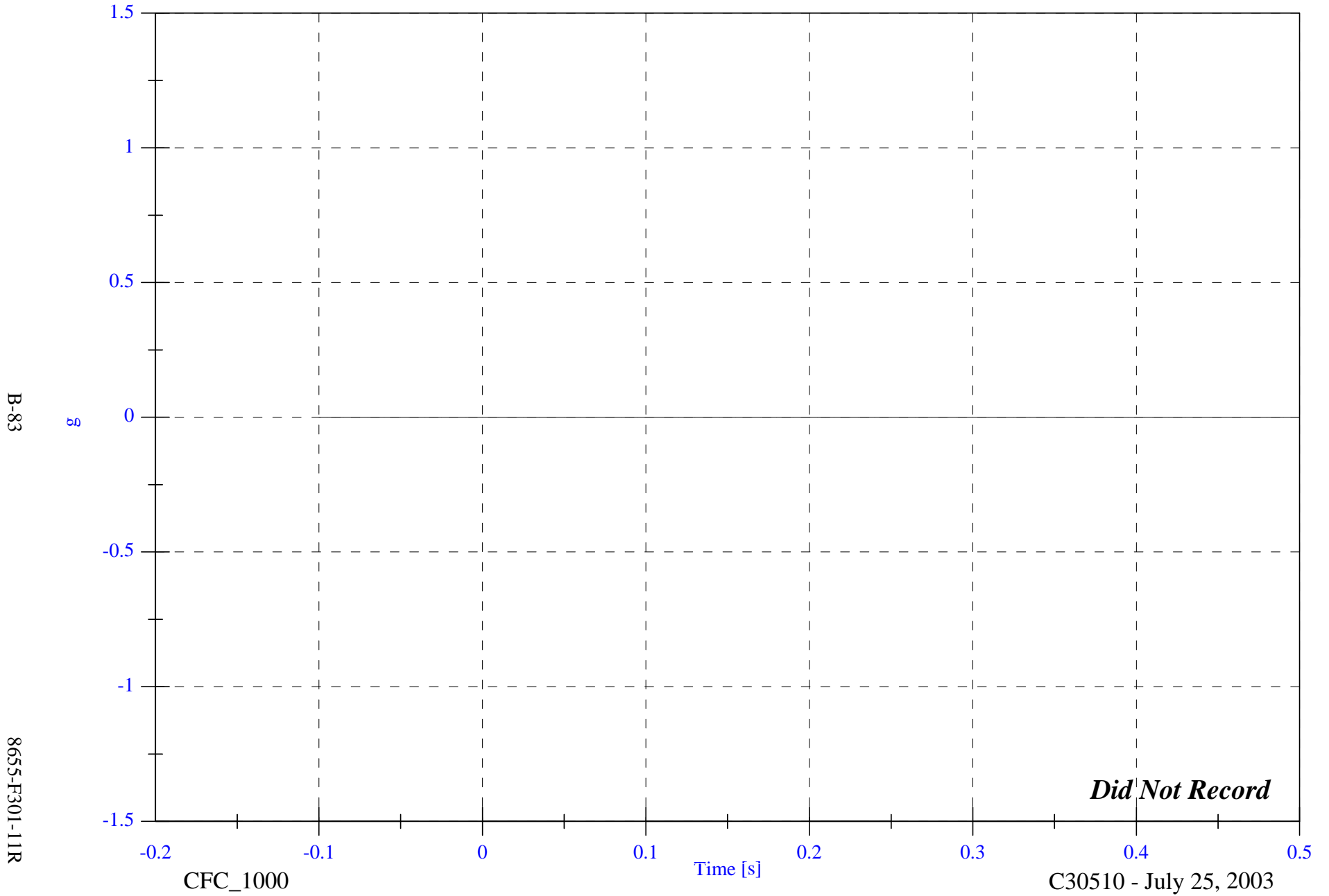
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Pelvic Ax

Max: 0.0 [g] at -0.100 [s]

Min: 0.0 [g] at -0.100 [s]

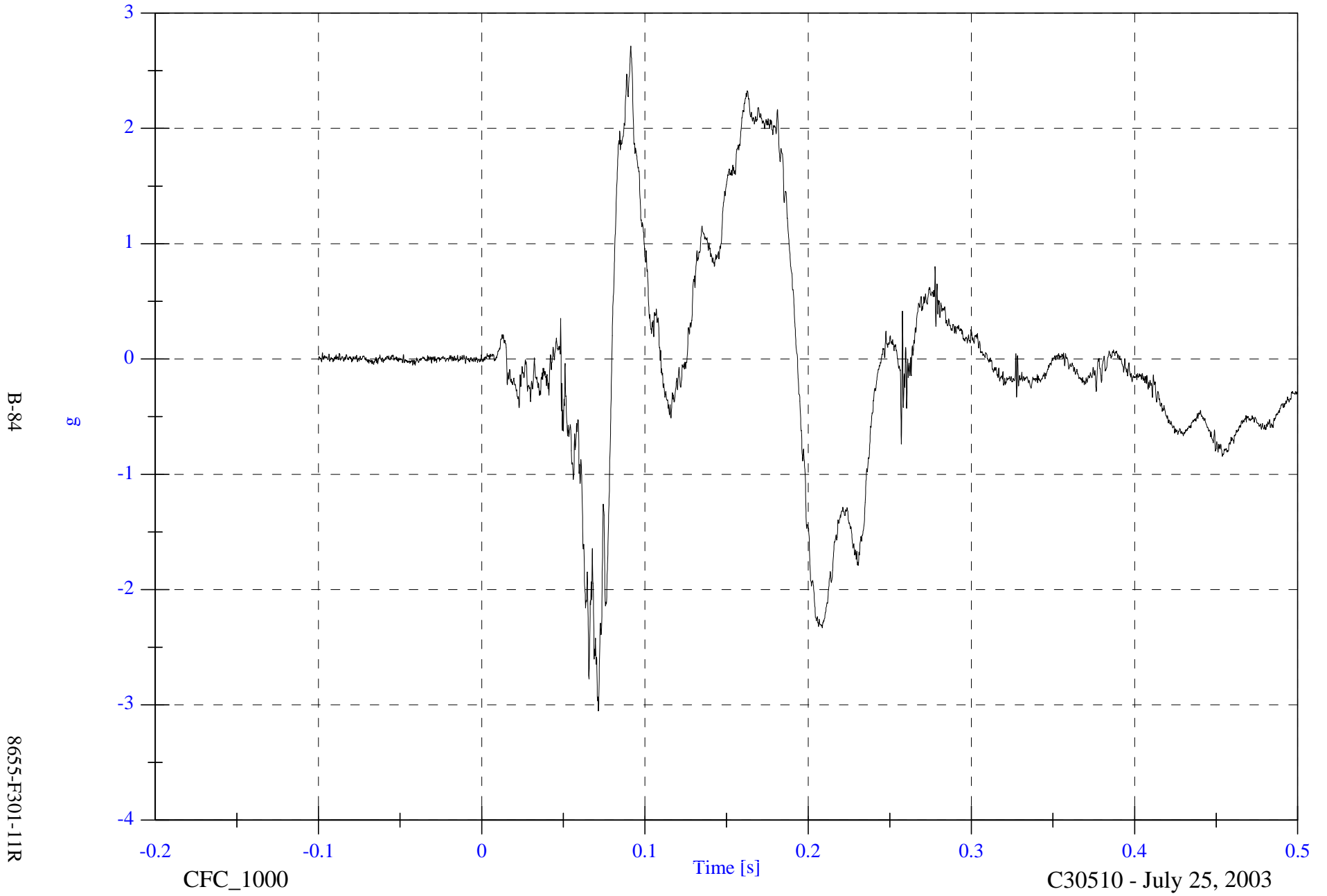


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 2.7 [g] at 0.091 [s]

Min: -3.1 [g] at 0.072 [s]

V2P2 Pelvic Ay



B-84

g

8655-F301-11R

CFC\_1000

Time [s]

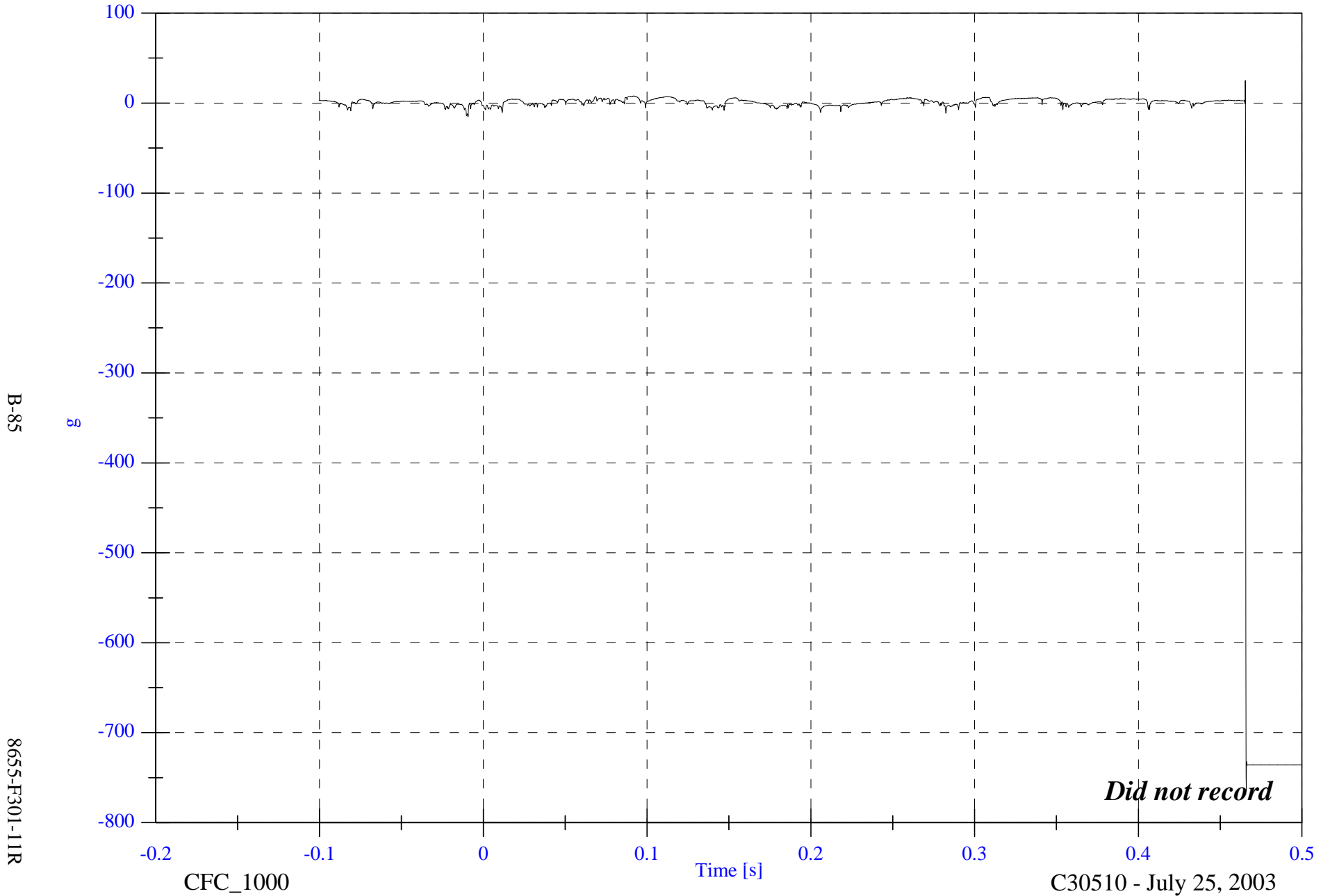
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Pelvic Az

Max: 25.1 [g] at 0.465 [s]

Min: -764.9 [g] at 0.466 [s]



B-85

8655-F301-11R

CFC\_1000

Time [s]

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

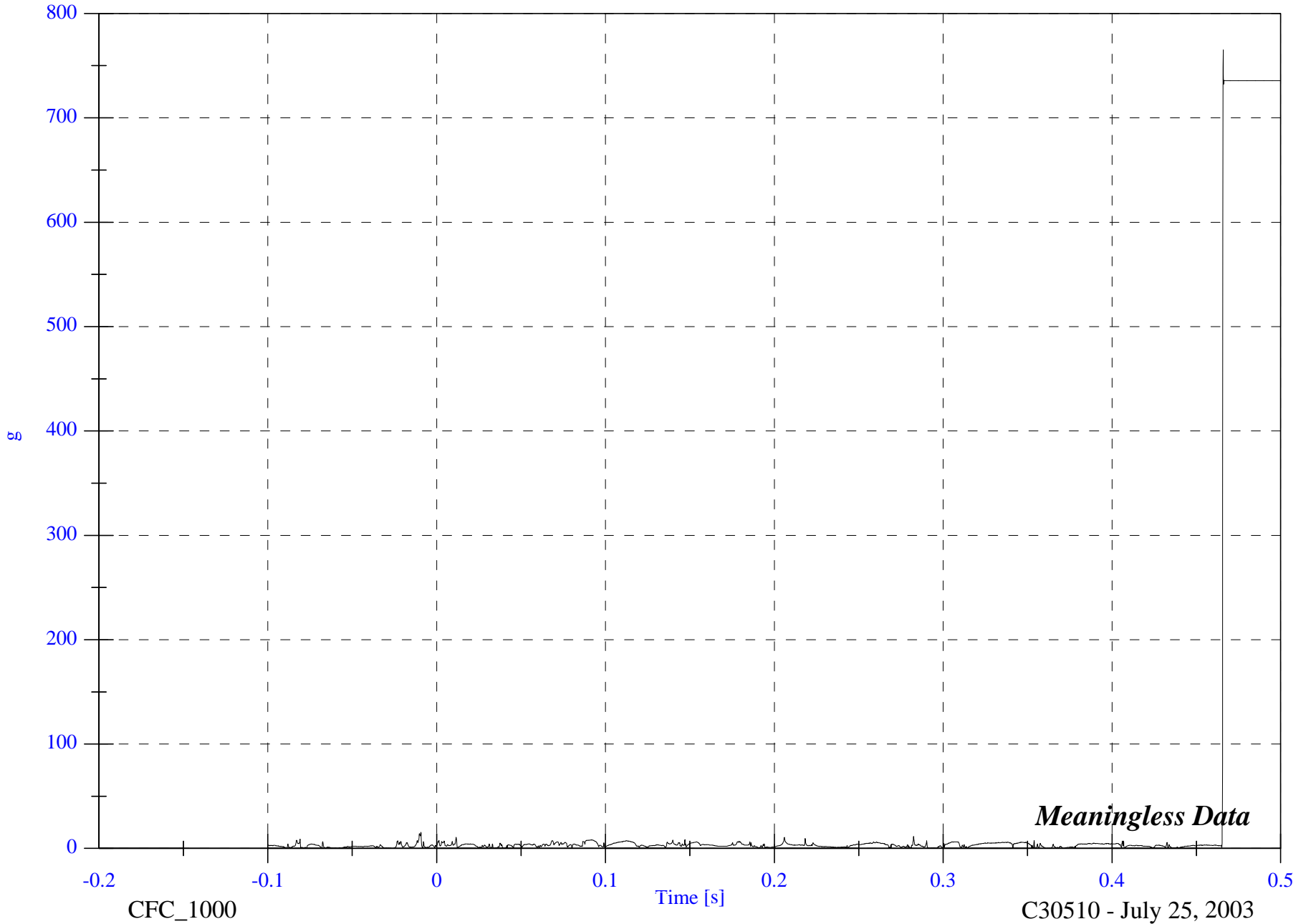
Max: 764.9 [g] at 0.466 [s]

V2P2 Pelvic A Resultant

Min: 0.0 [g] at -0.060 [s]

B-86

8655-F301-11R



*Meaningless Data*

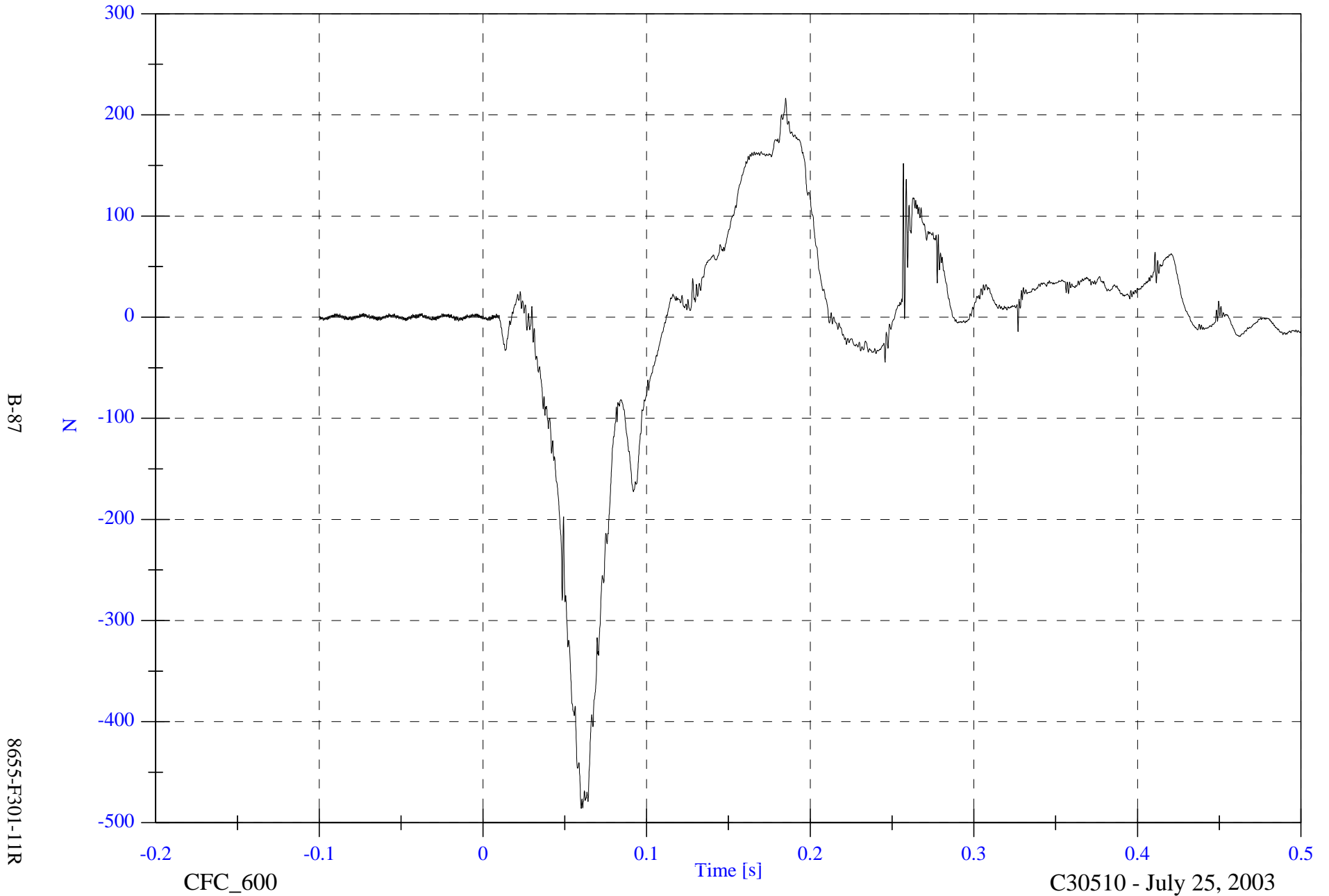
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Left Femur

Max: 216.7 [N] at 0.185 [s]

Min: -485.9 [N] at 0.060 [s]



B-87

8655-F301-11R

CFC\_600

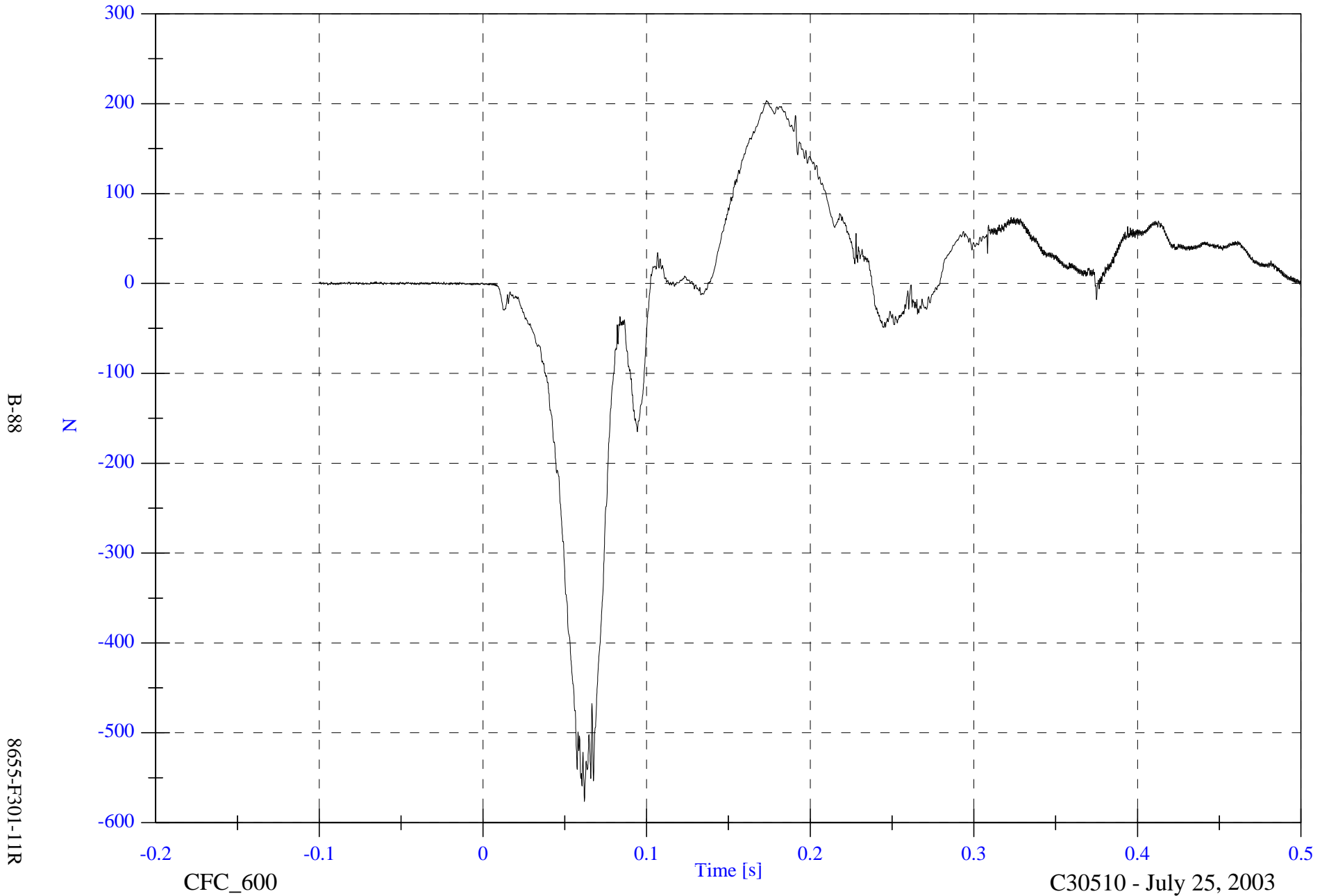
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Right Femur

Max: 203.4 [N] at 0.173 [s]

Min: -576.4 [N] at 0.062 [s]



B-88

8655-F301-11R

CFC\_600

Time [s]

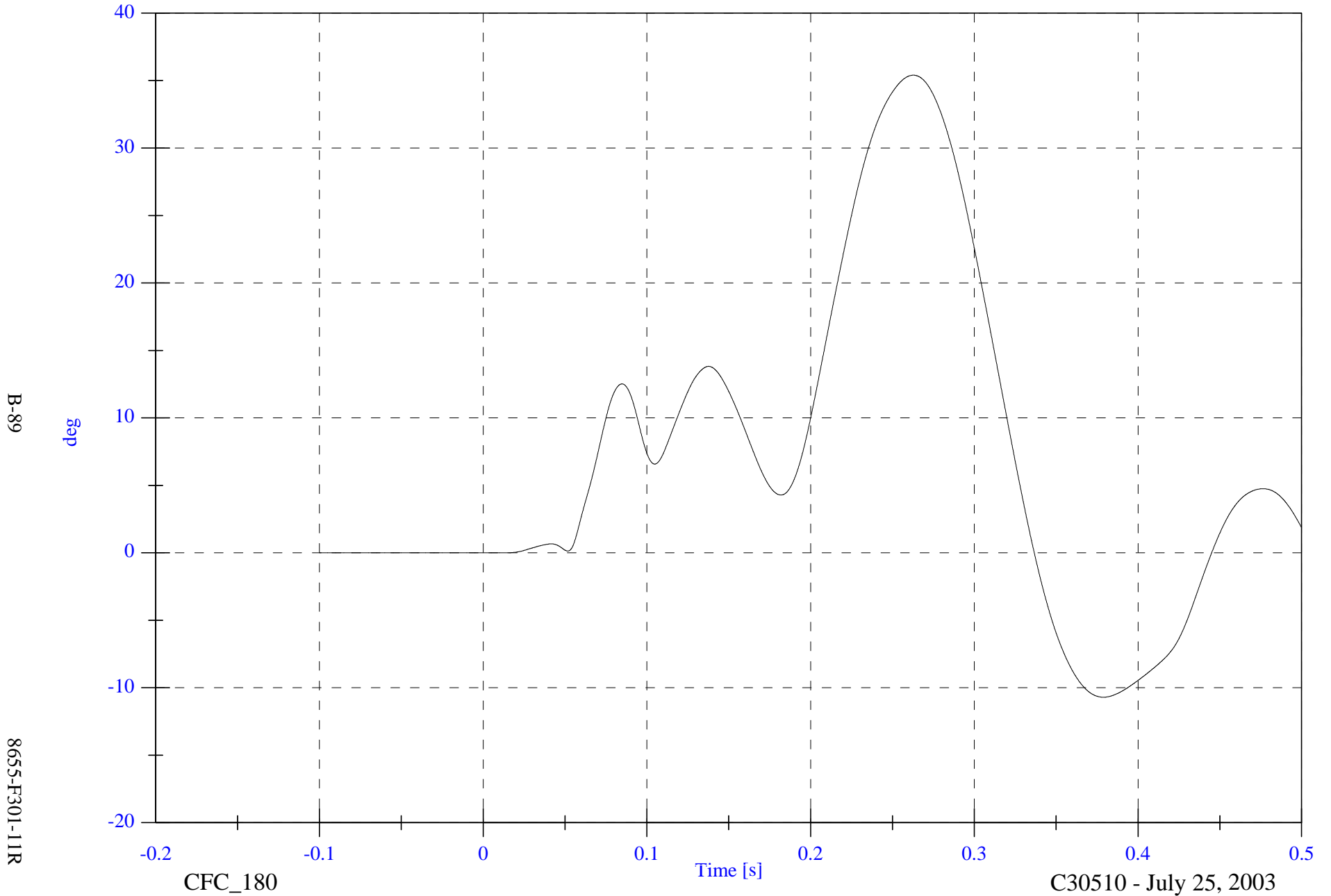
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Head to Chest

Max: 35.4 [deg] at 0.263 [s]

Min: -10.7 [deg] at 0.379 [s]



B-89

8655-F301-11R

CFC\_180

Time [s]

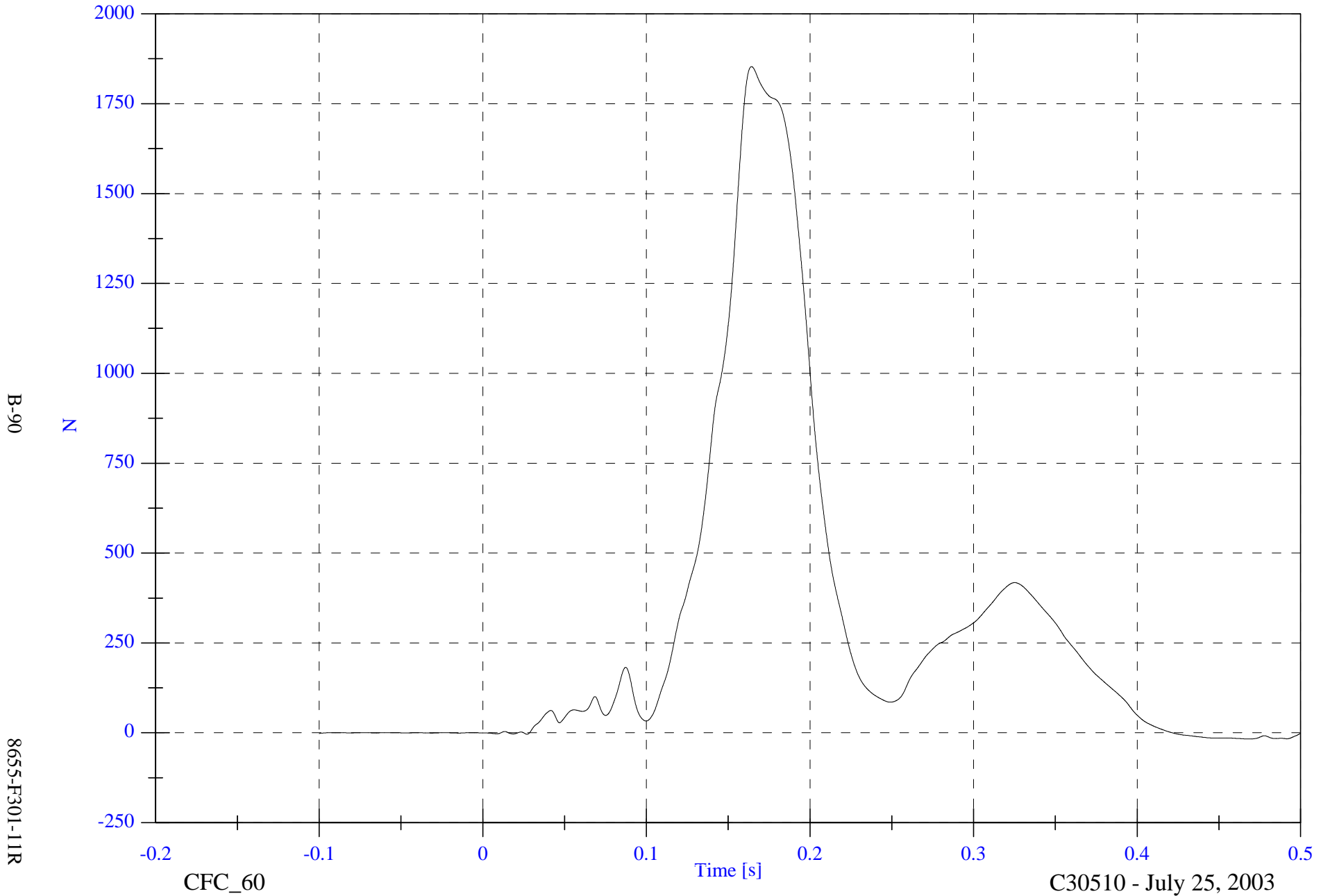
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2P2 Lap Belt

Max: 1853.1 [N] at 0.164 [s]

Min: -16.6 [N] at 0.468 [s]

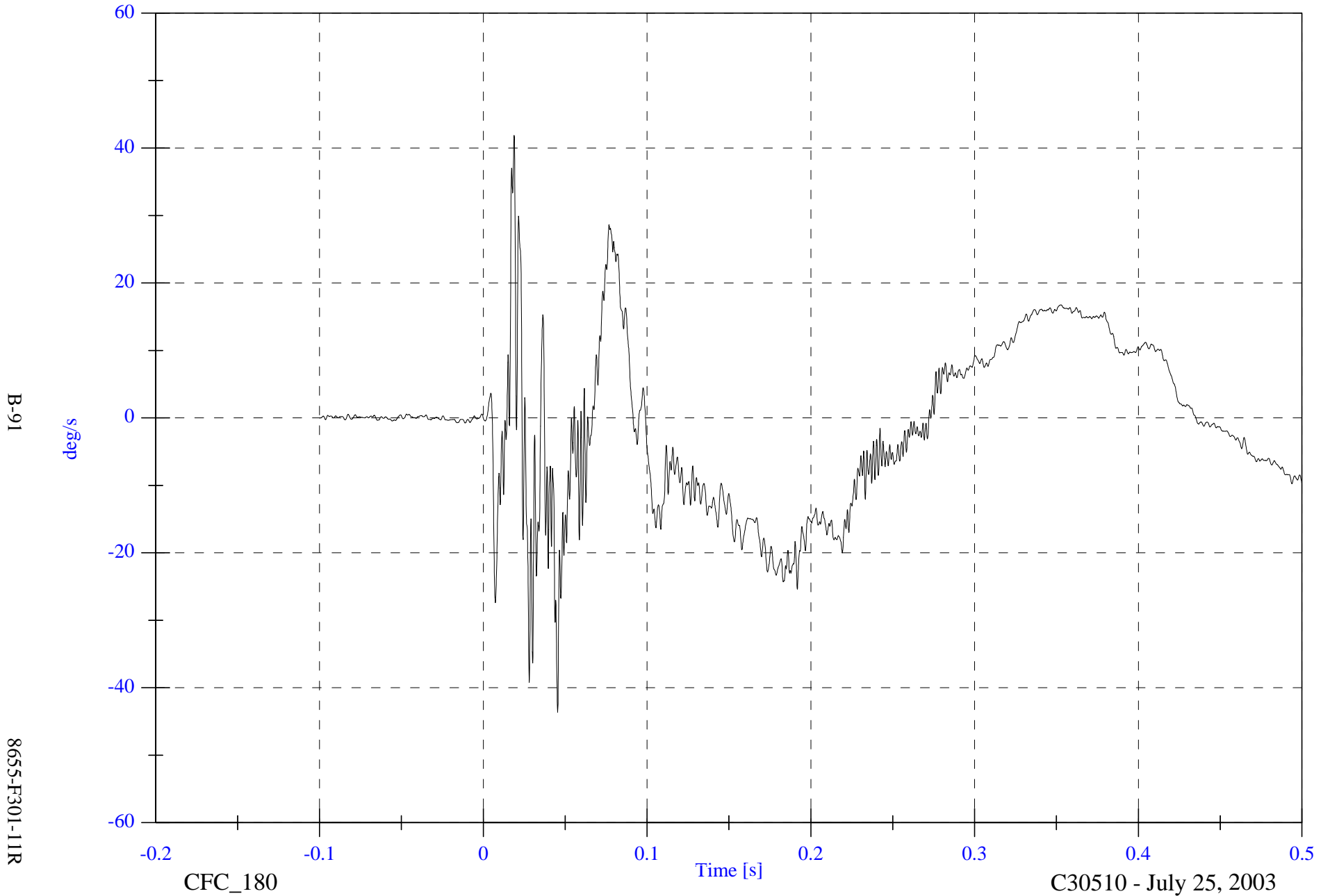


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 Left Front Sill Rotation AVy

Max: 41.9 [deg/s] at 0.019 [s]

Min: -43.6 [deg/s] at 0.045 [s]



2003 FMVSS 301 Test 2 2003 Saab 9-3

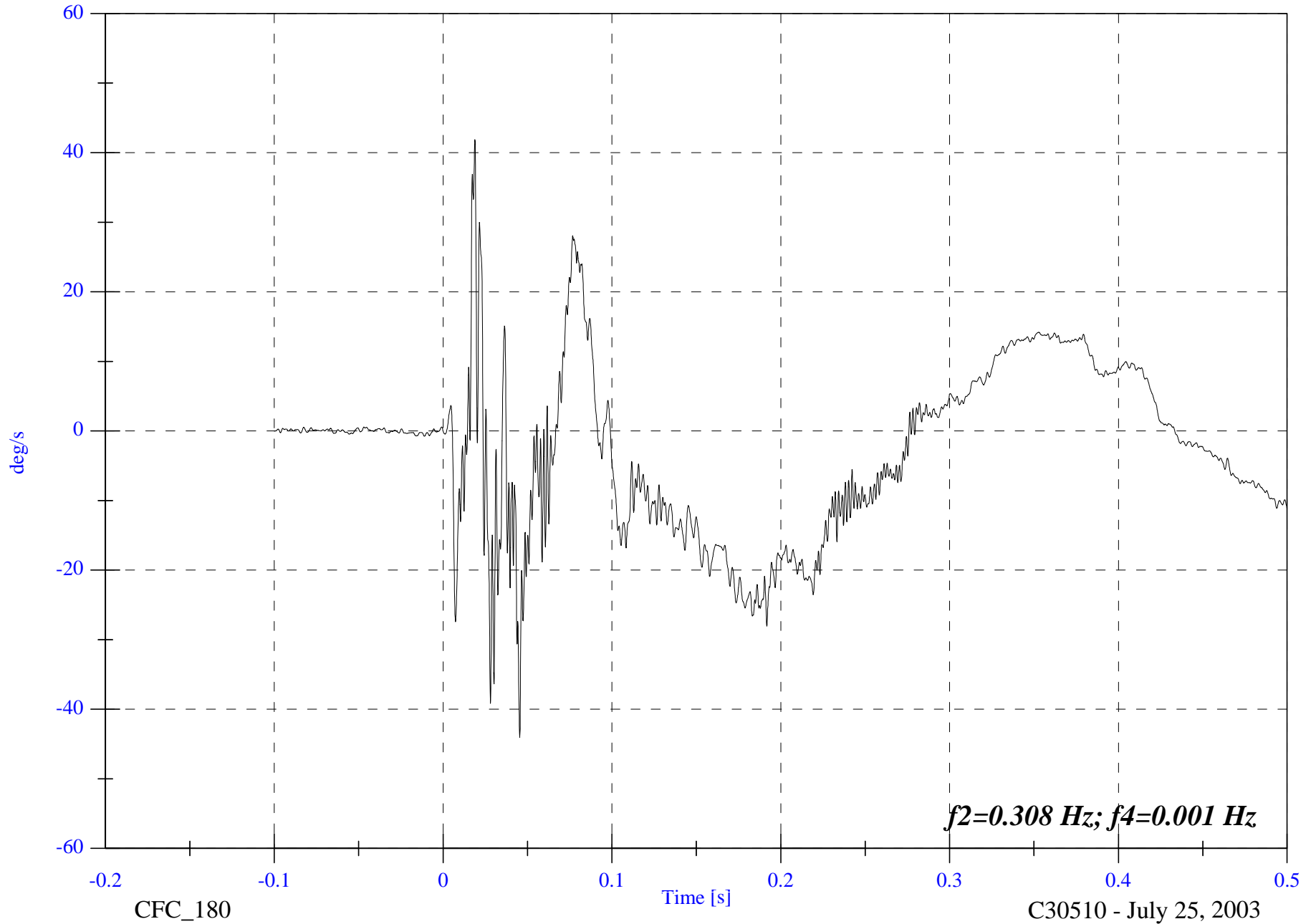
V2 Left Front Sill Rotation Comp AVy

Max: 41.9 [deg/s] at 0.019 [s]

Min: -44.1 [deg/s] at 0.045 [s]

B-92

8655-F301-11R



CFC\_180

Time [s]

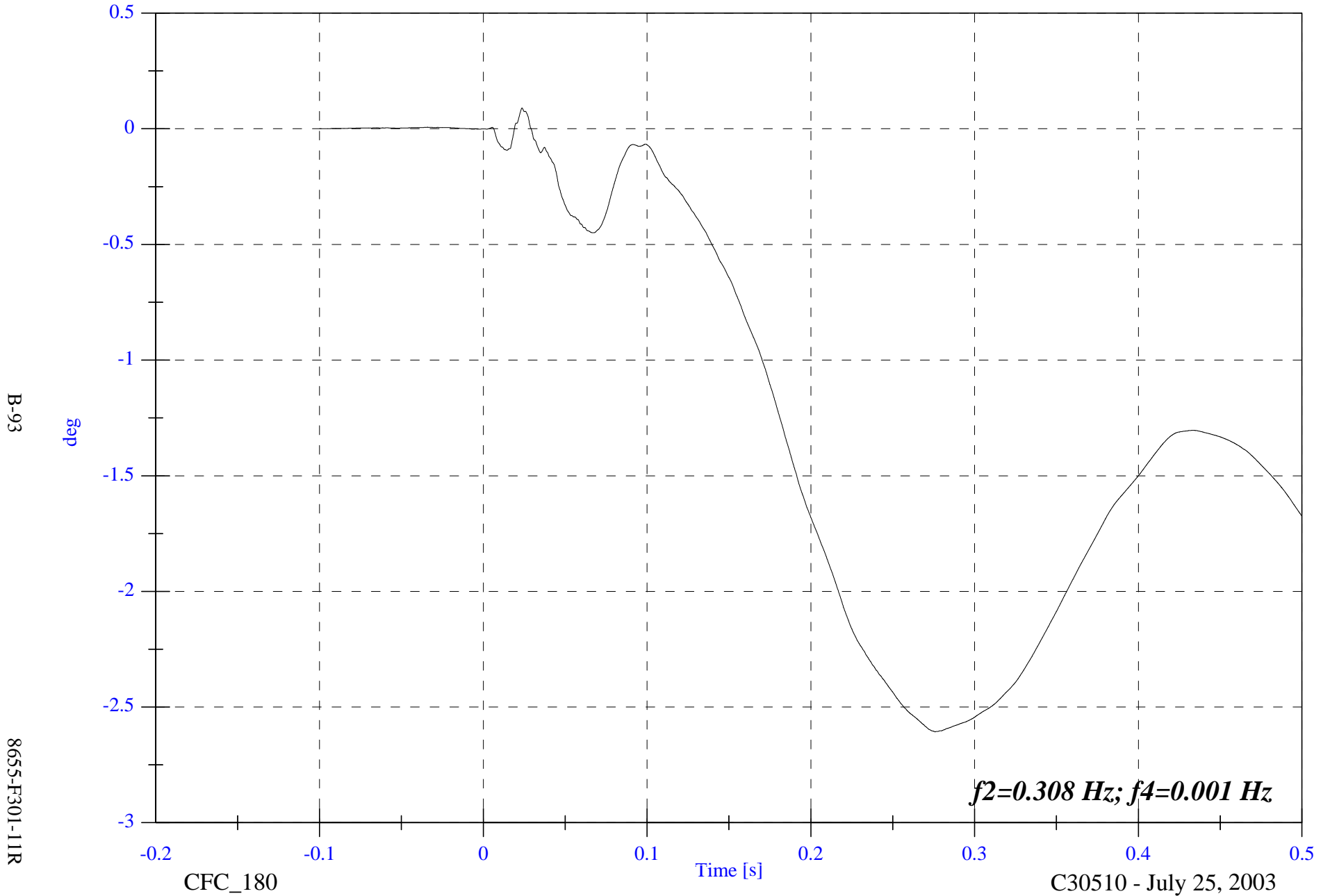
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 Left Front Sill Rotation Comp ADy

Max: 0.1 [deg] at 0.024 [s]

Min: -2.6 [deg] at 0.276 [s]



2003 FMVSS 301 Test 2 2003 Saab 9-3

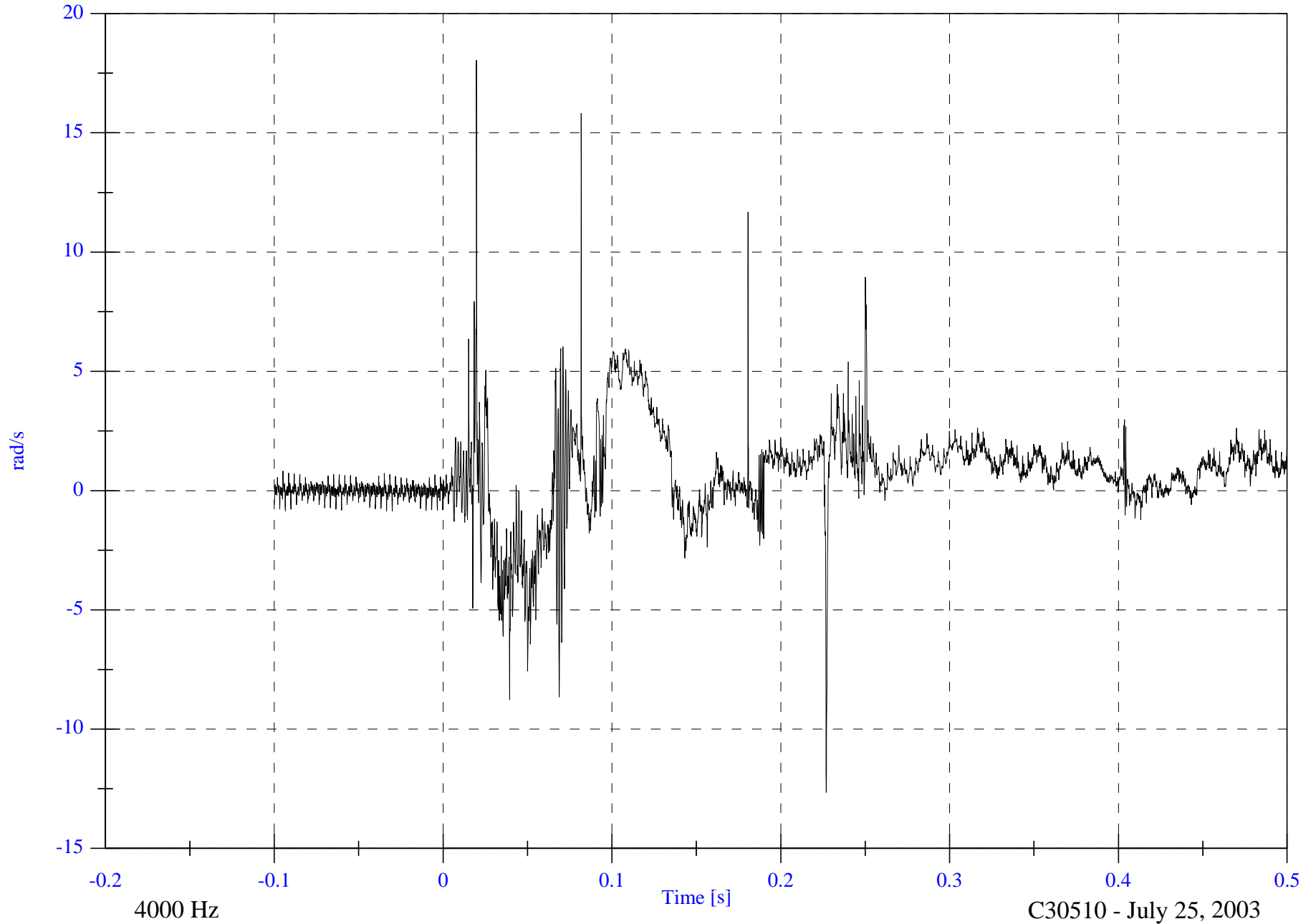
V2 Right Front Sill Rotation

Max: 18.0 [rad/s] at 0.020 [s]

Min: -12.6 [rad/s] at 0.227 [s]

B-94

8655-F301-11R



4000 Hz

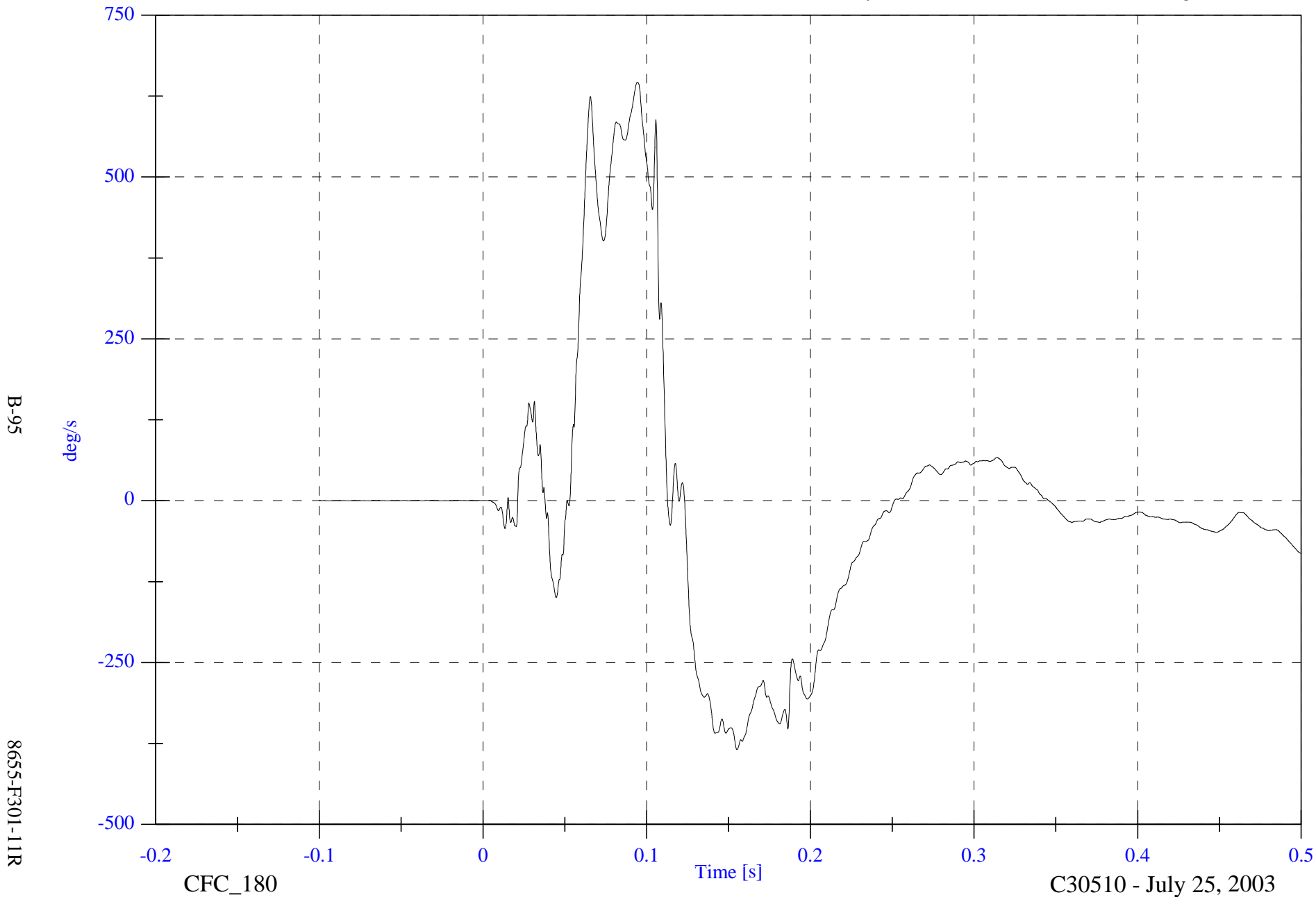
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 646.2 [deg/s] at 0.094 [s]

Min: -384.5 [deg/s] at 0.155 [s]

V2 P1 Left Seat Rotation AVy



B-95

8655-F301-11R

CFC\_180

Time [s]

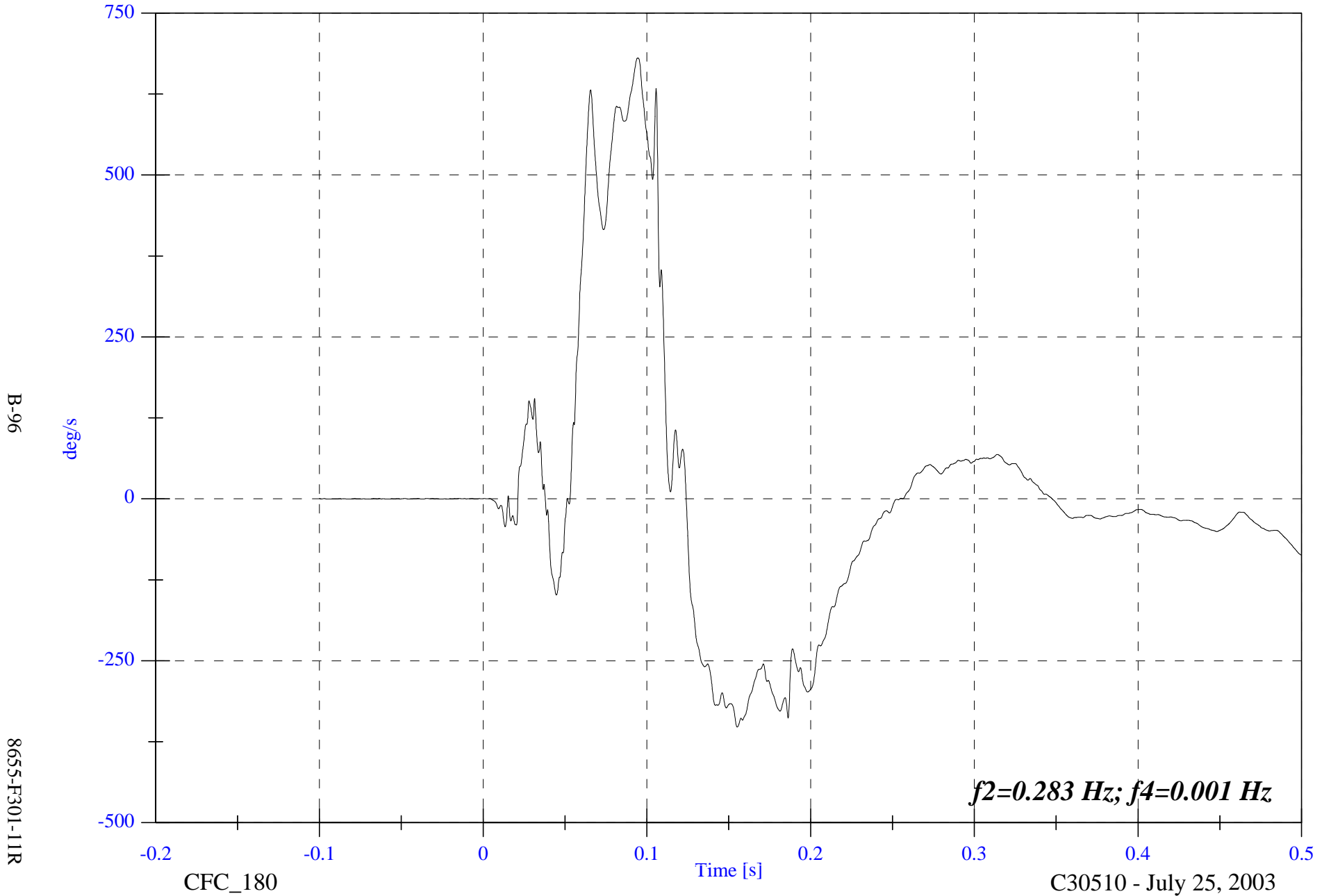
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P1 Left Seat Rotation Comp AVy

Max: 680.8 [deg/s] at 0.095 [s]

Min: -352.4 [deg/s] at 0.155 [s]

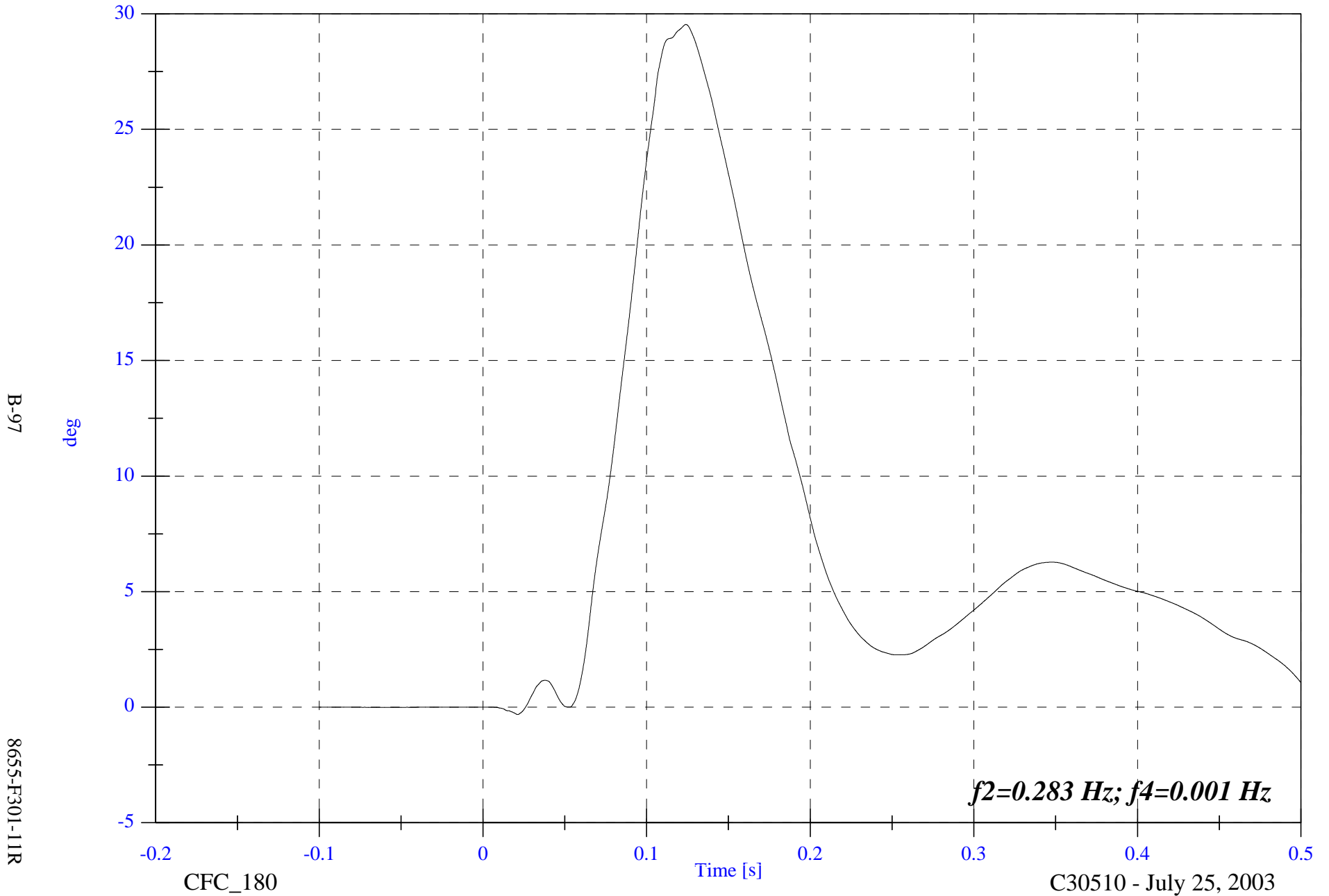


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 29.5 [deg] at 0.124 [s]

V2 P1 Left Seat Rotation Comp ADy

Min: -0.3 [deg] at 0.021 [s]

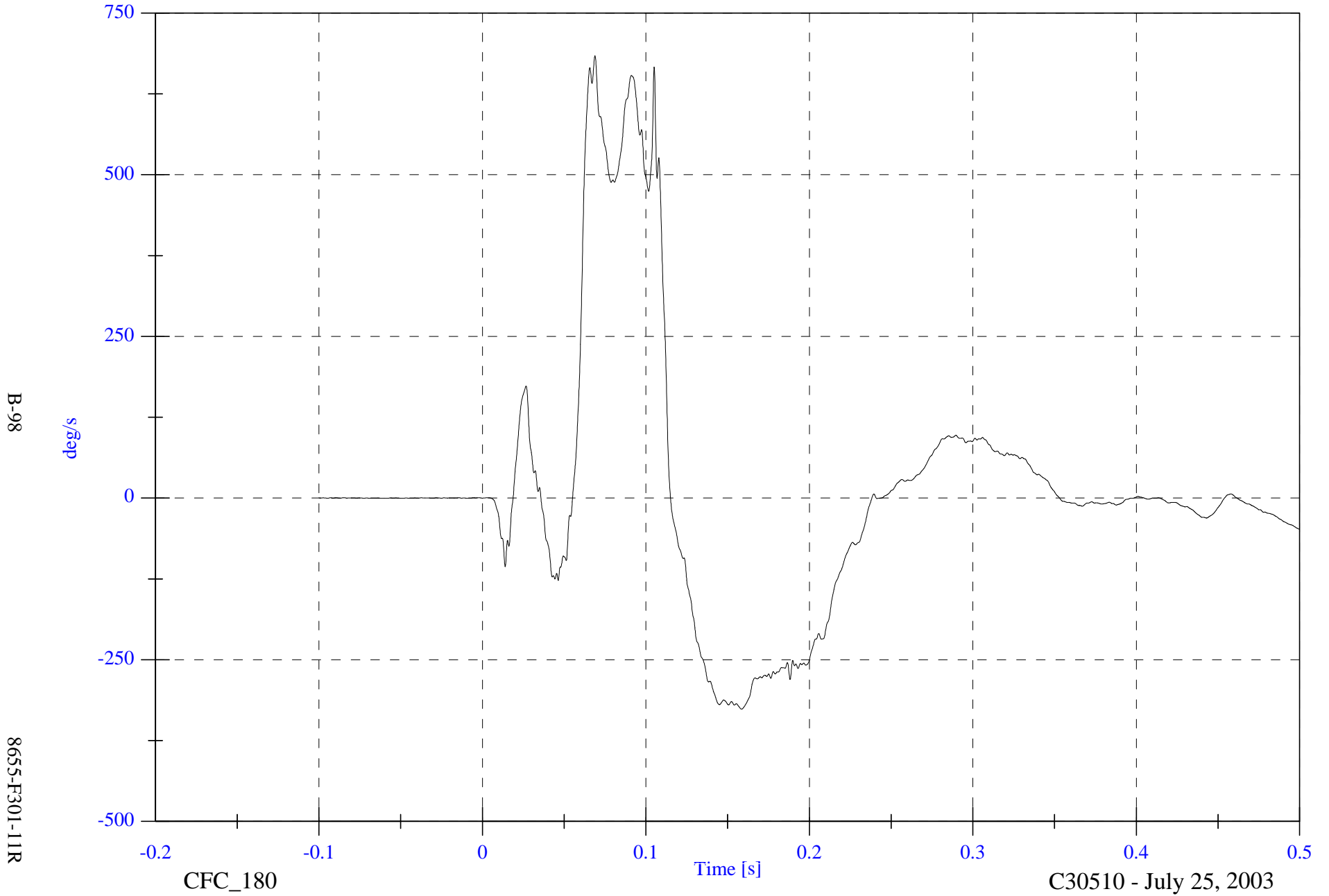


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P1 Right Seat Rotation AVy

Max: 684.0 [deg/s] at 0.069 [s]

Min: -326.2 [deg/s] at 0.159 [s]



B-98

8655-F301-11R

CFC\_180

Time [s]

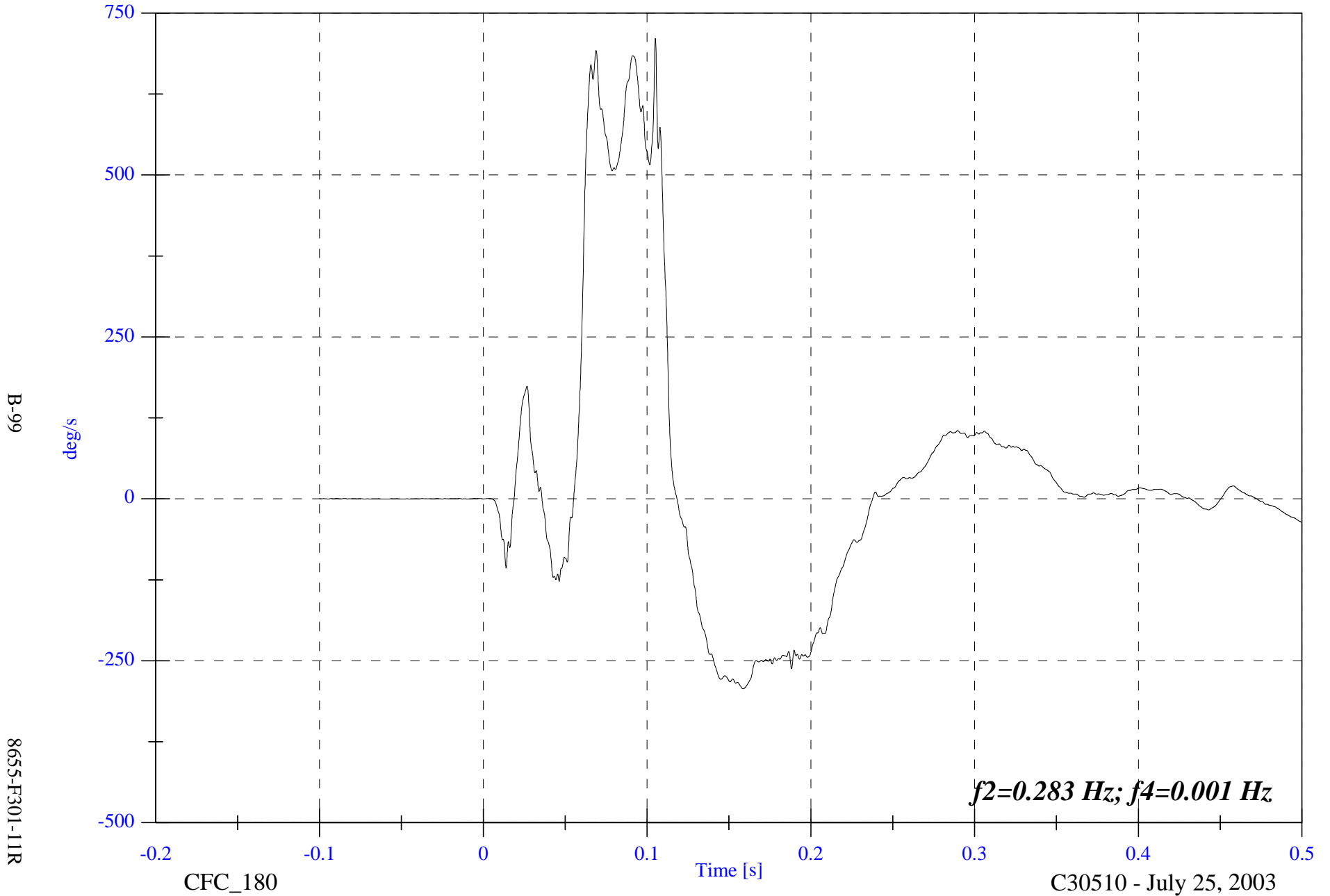
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P1 Right Seat Rotation Comp AVy

Max: 711.0 [deg/s] at 0.105 [s]

Min: -293.3 [deg/s] at 0.159 [s]

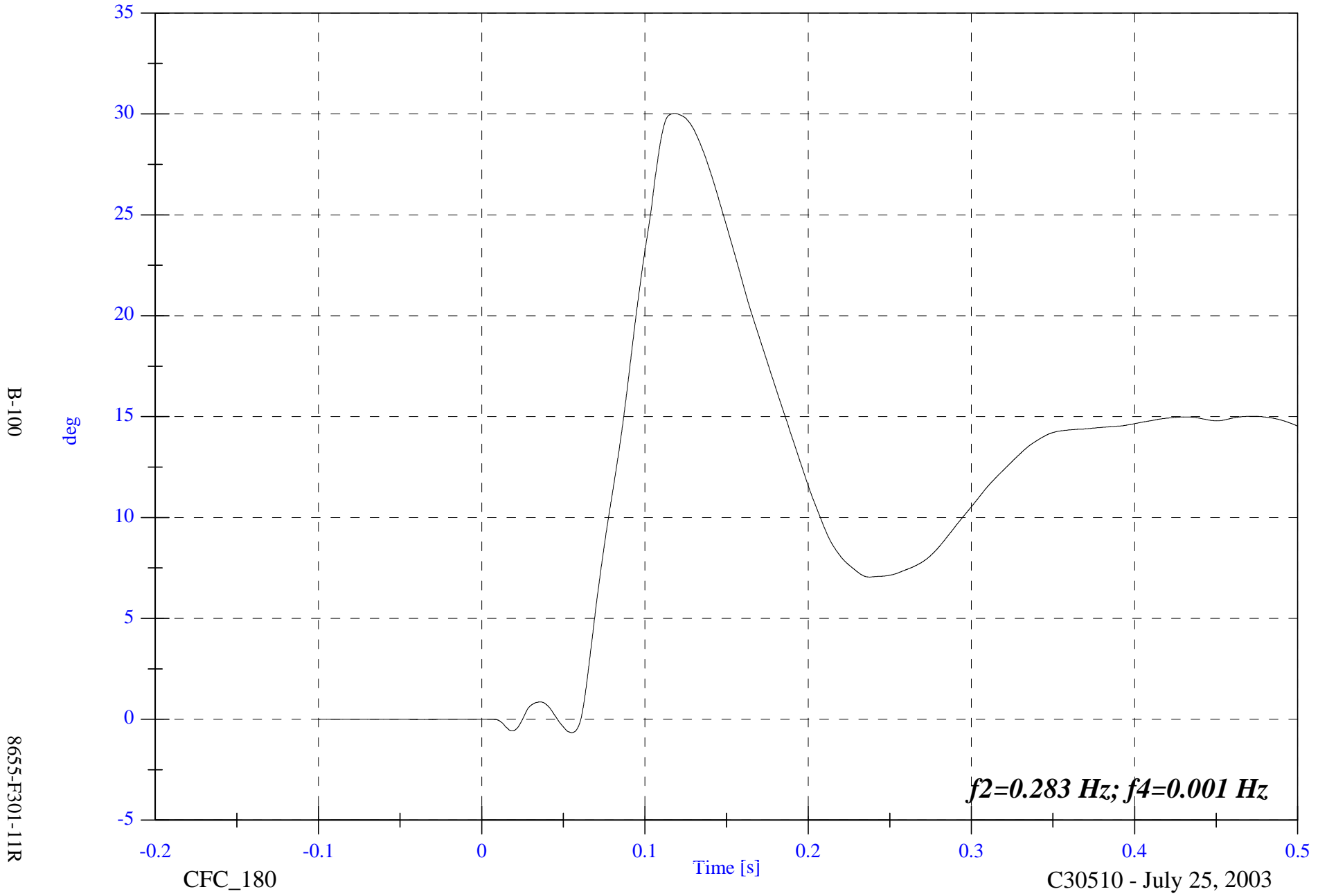


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P1 Right Seat Rotation Comp ADy

Max: 30.0 [deg] at 0.118 [s]

Min: -0.7 [deg] at 0.055 [s]



2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 377.6 [deg/s] at 0.065 [s]

Min: -360.7 [deg/s] at 0.120 [s]

### V2 P2 Left Seat Rotation AVy



2003 FMVSS 301 Test 2 2003 Saab 9-3

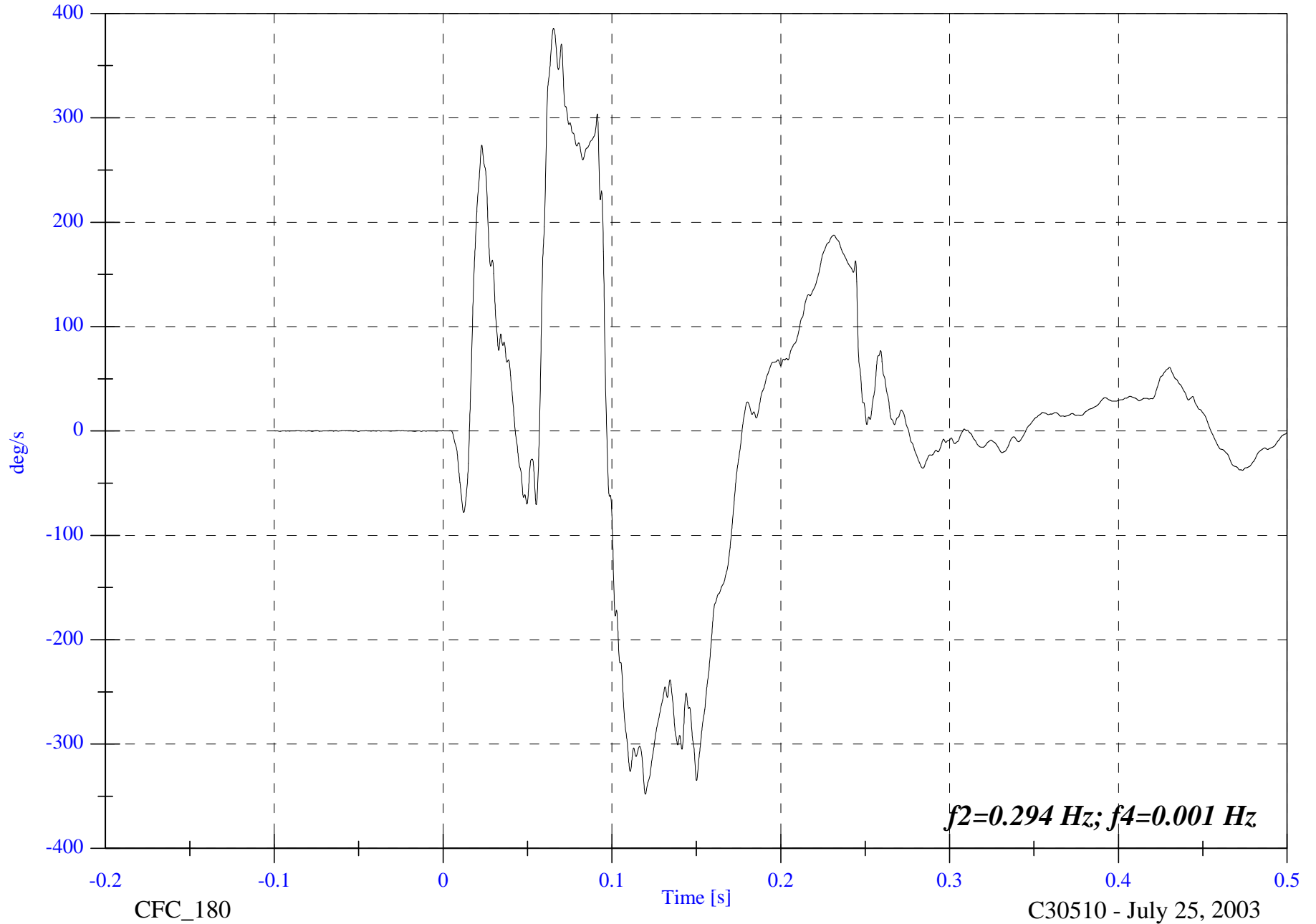
Max: 385.9 [deg/s] at 0.065 [s]

V2 P2 Left Seat Rotation Comp AVy

Min: -348.1 [deg/s] at 0.120 [s]

B-102

8655-F301-11R



2003 FMVSS 301 Test 2 2003 Saab 9-3

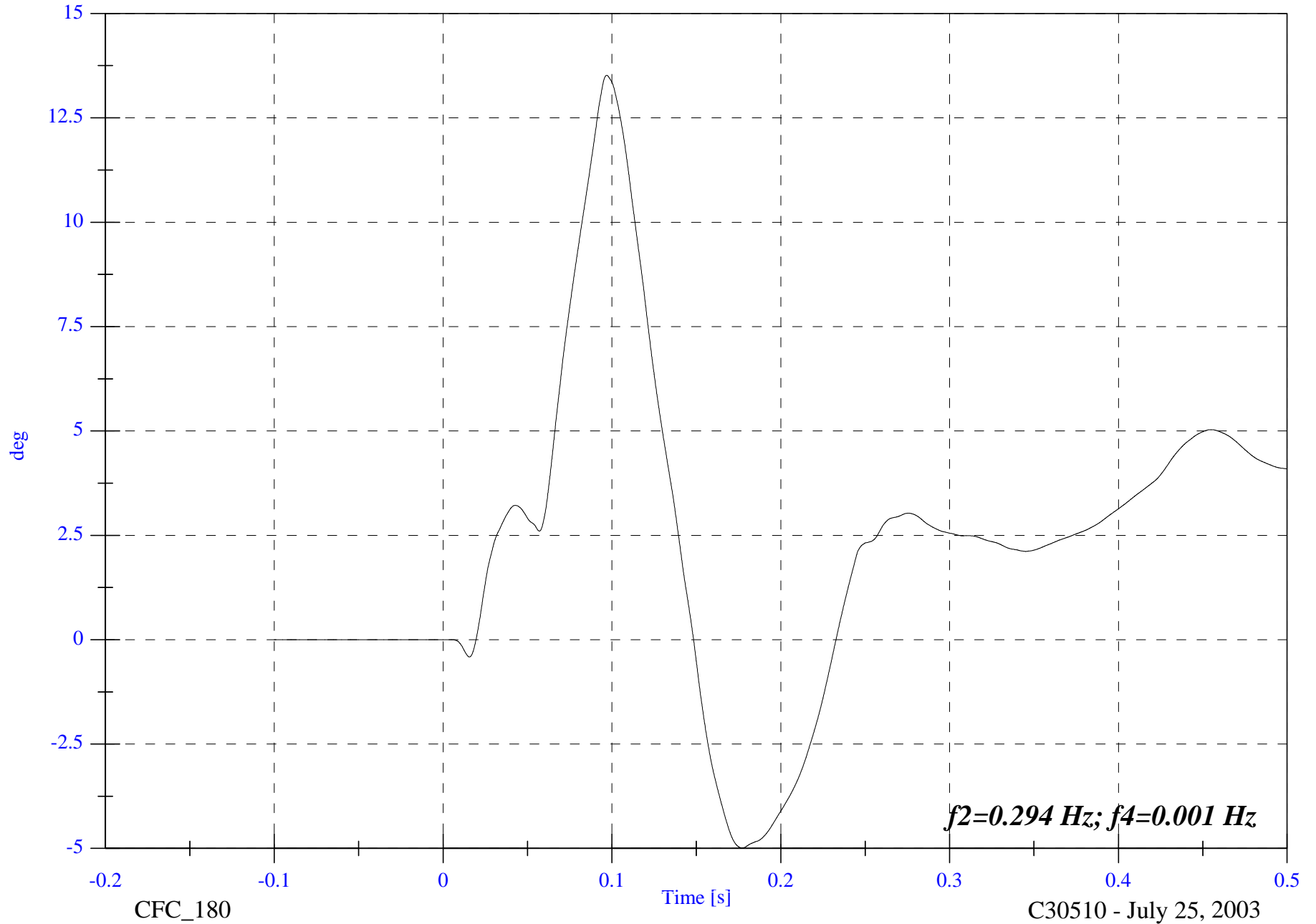
V2 P2 Left Seat Rotation Comp ADy

Max: 13.5 [deg] at 0.097 [s]

Min: -5.0 [deg] at 0.177 [s]

B-103

8655-F301-11R



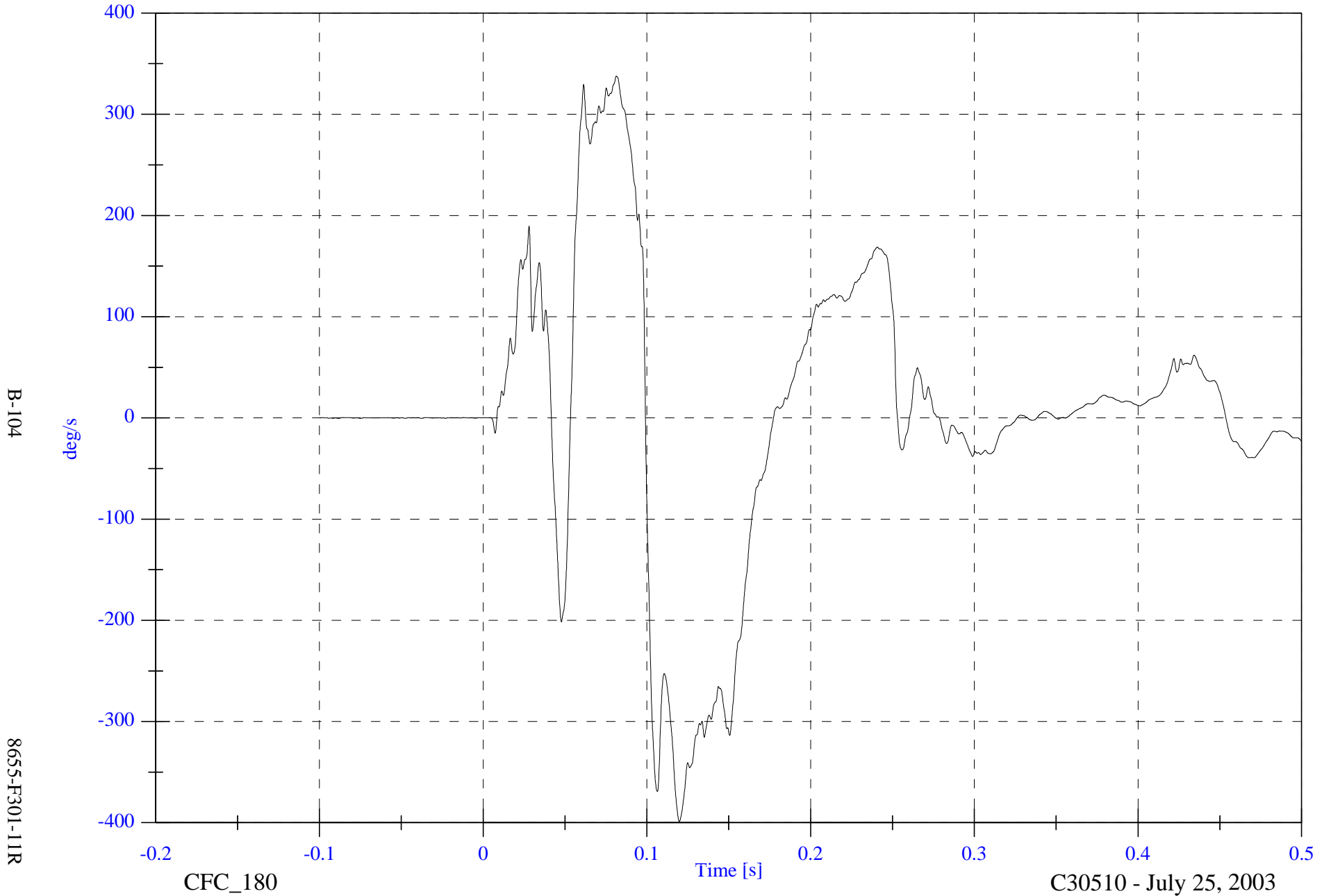
$f_2=0.294$  Hz;  $f_4=0.001$  Hz

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P2 Right Seat Rotation AVy

Max: 337.8 [deg/s] at 0.081 [s]

Min: -398.8 [deg/s] at 0.120 [s]



B-104

8655-F301-11R

CFC\_180

Time [s]

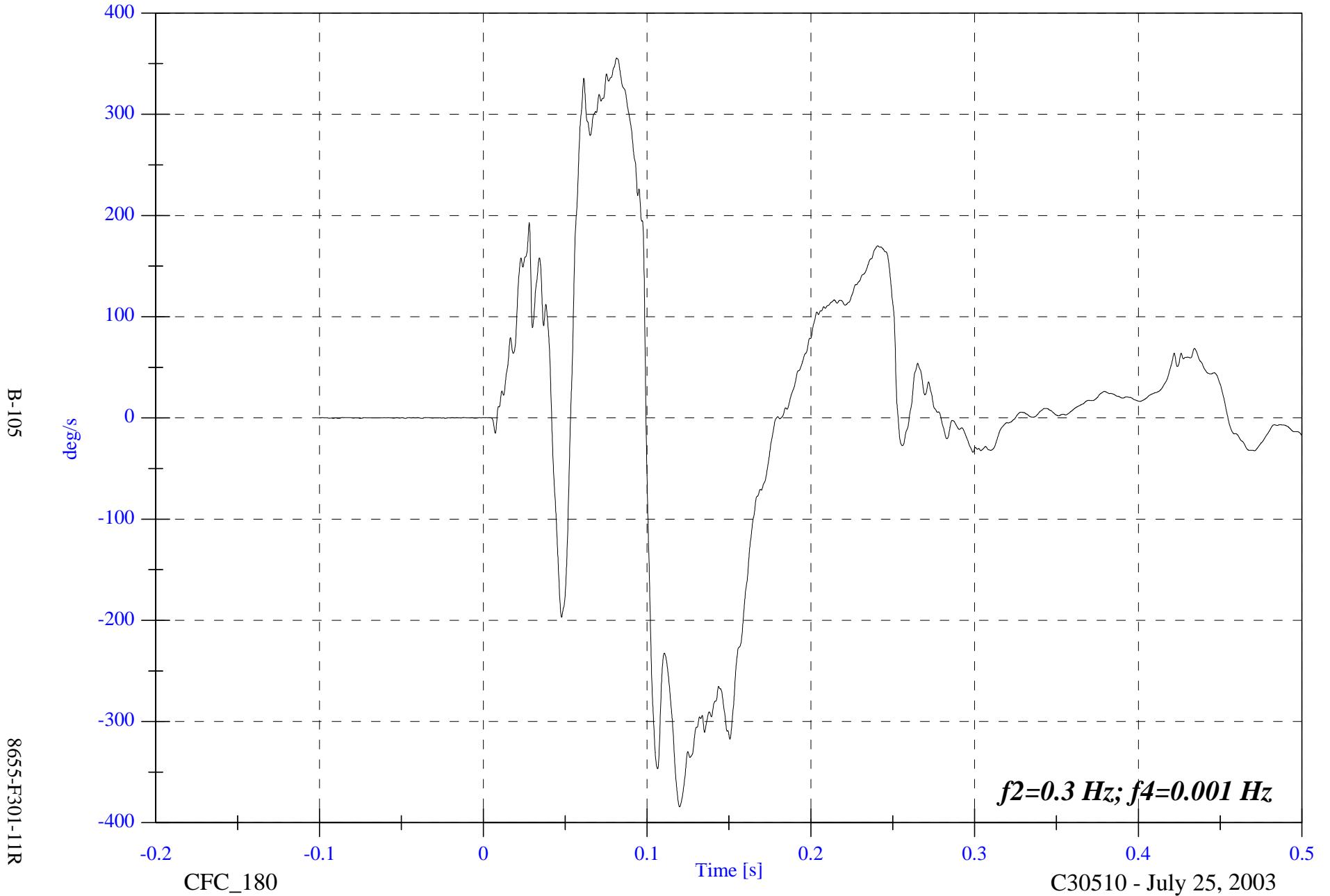
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P2 Right Seat Rotation Comp AVy

Max: 355.5 [deg/s] at 0.081 [s]

Min: -384.3 [deg/s] at 0.120 [s]



B-105

8655-F301-11R

CFC\_180

Time [s]

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

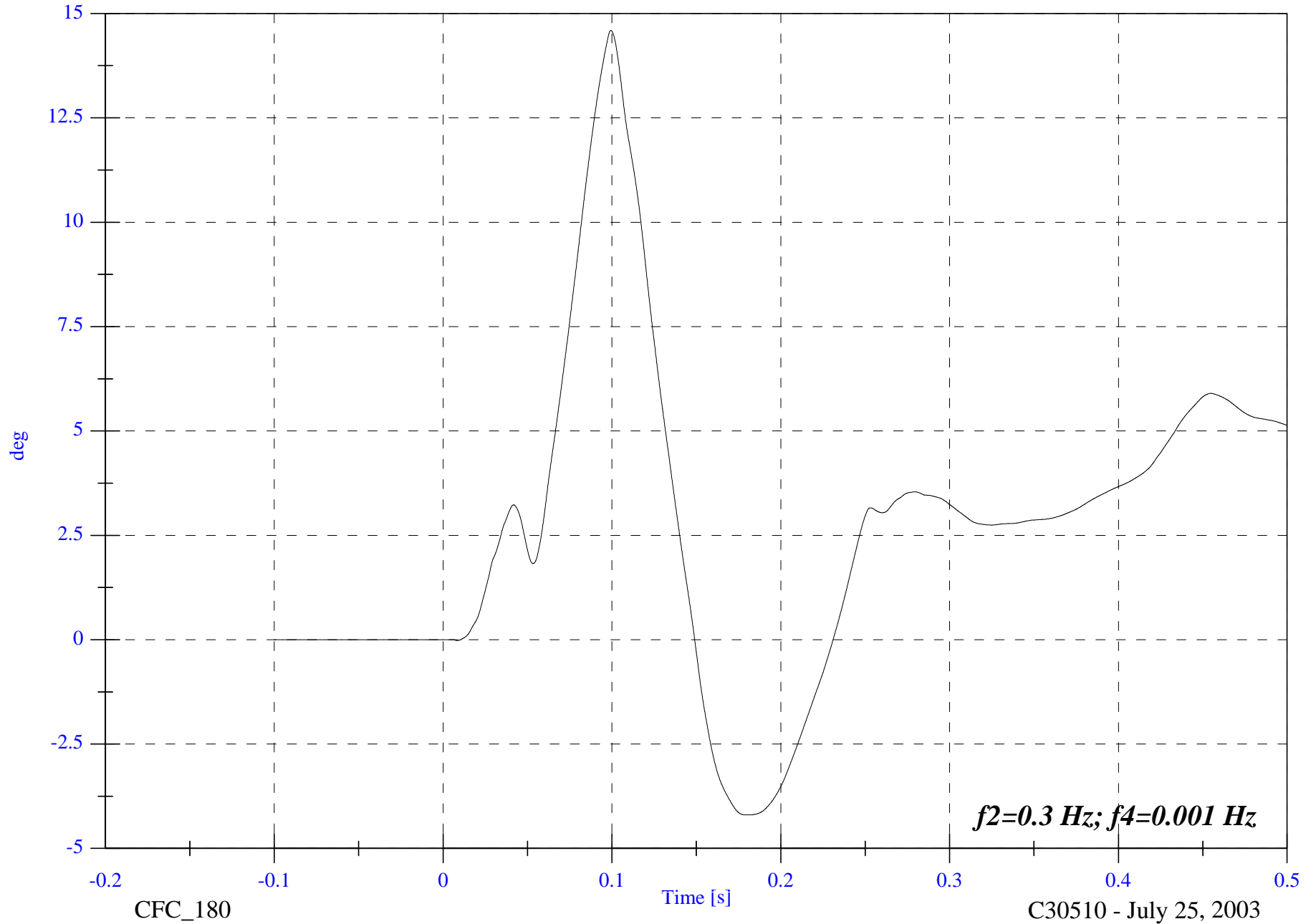
V2 P2 Right Seat Rotation Comp ADy

Max: 14.6 [deg] at 0.099 [s]

Min: -4.2 [deg] at 0.179 [s]

B-106

8655-F301-11R



CFC\_180

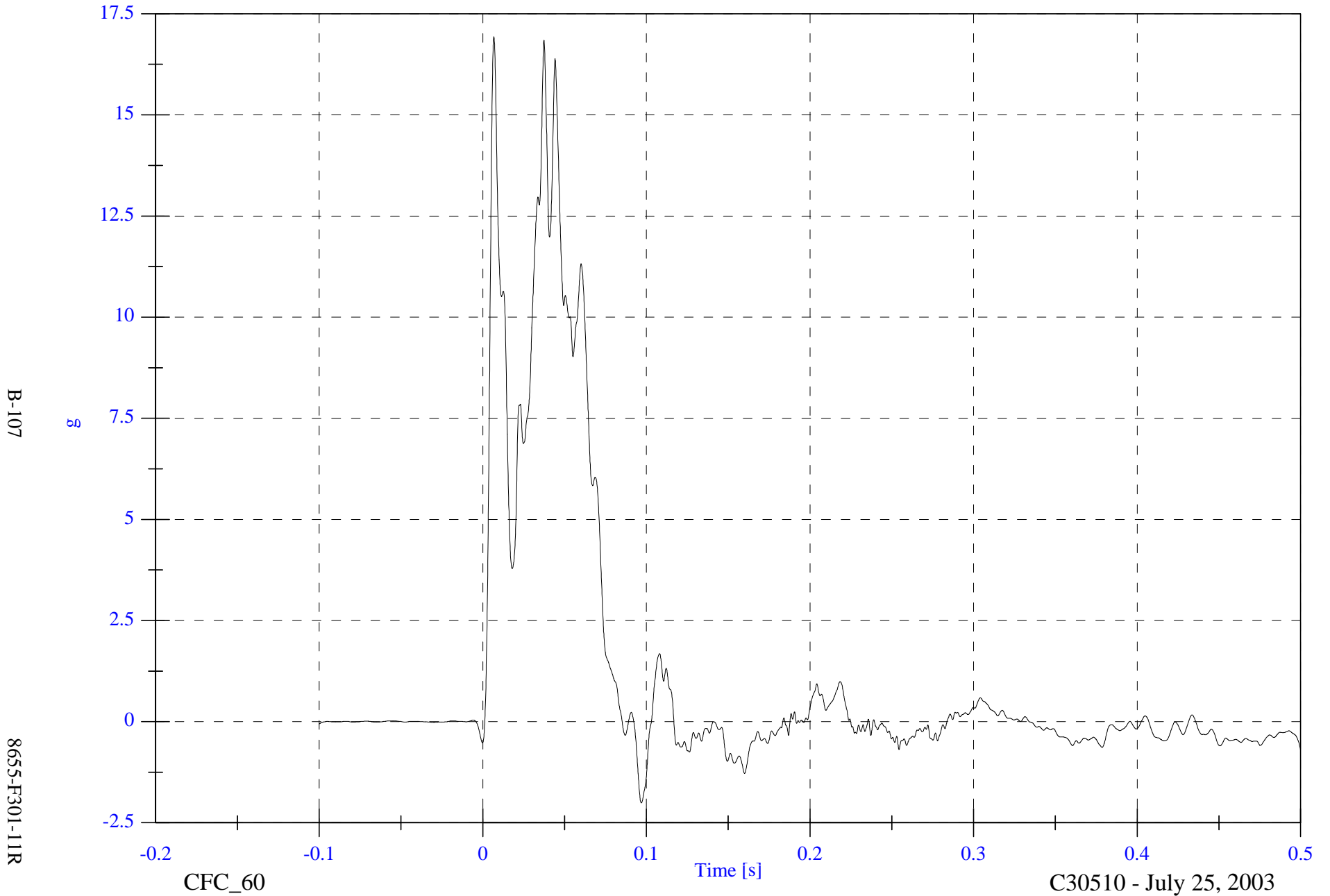
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 16.9 [g] at 0.007 [s]

Min: -2.0 [g] at 0.097 [s]

V2 Left X Member x

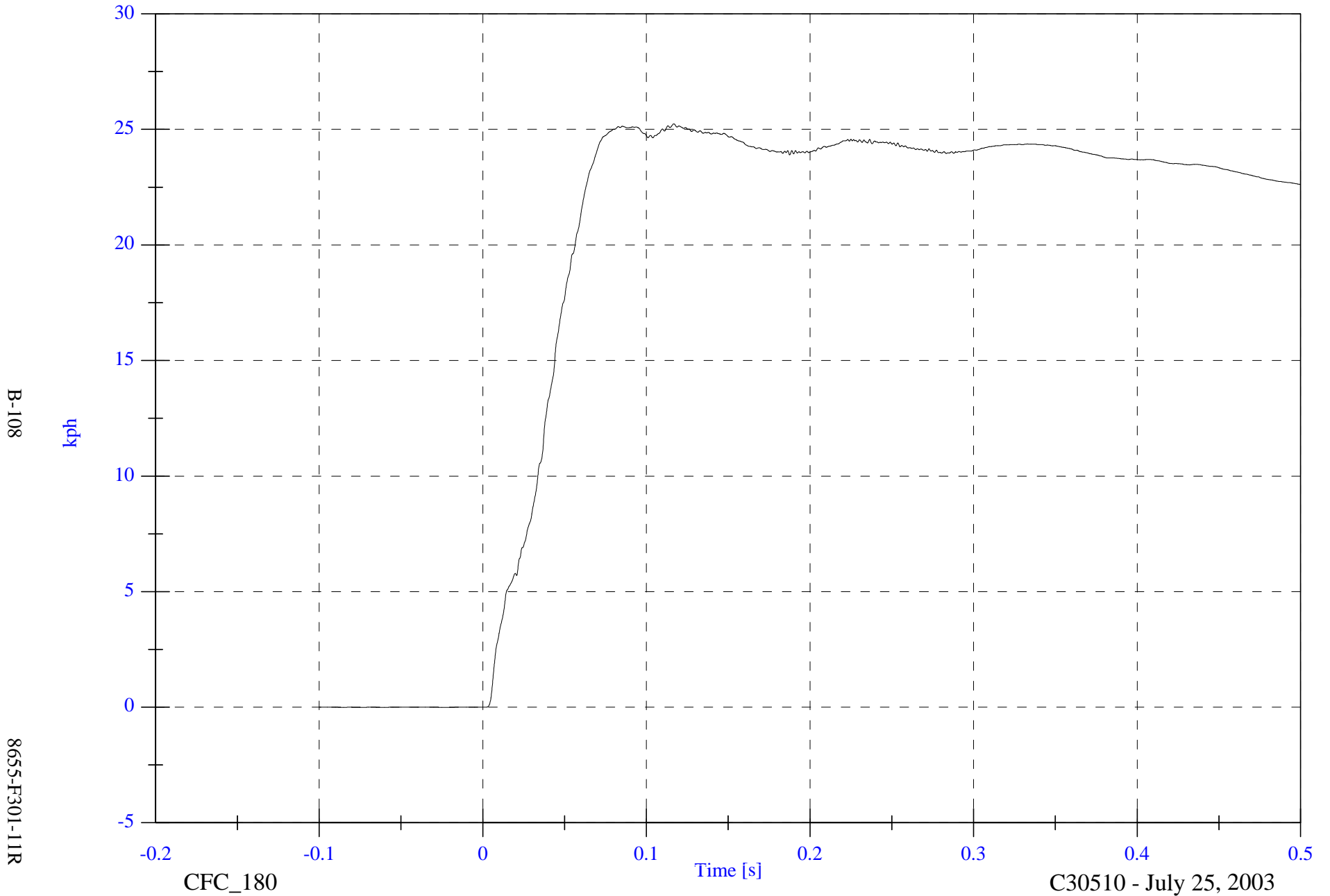


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 25.2 [kph] at 0.117 [s]

V2 Left X Member x Velocity

Min: -0.0 [kph] at -0.021 [s]



B-108

8655-F301-11R

CFC\_180

Time [s]

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

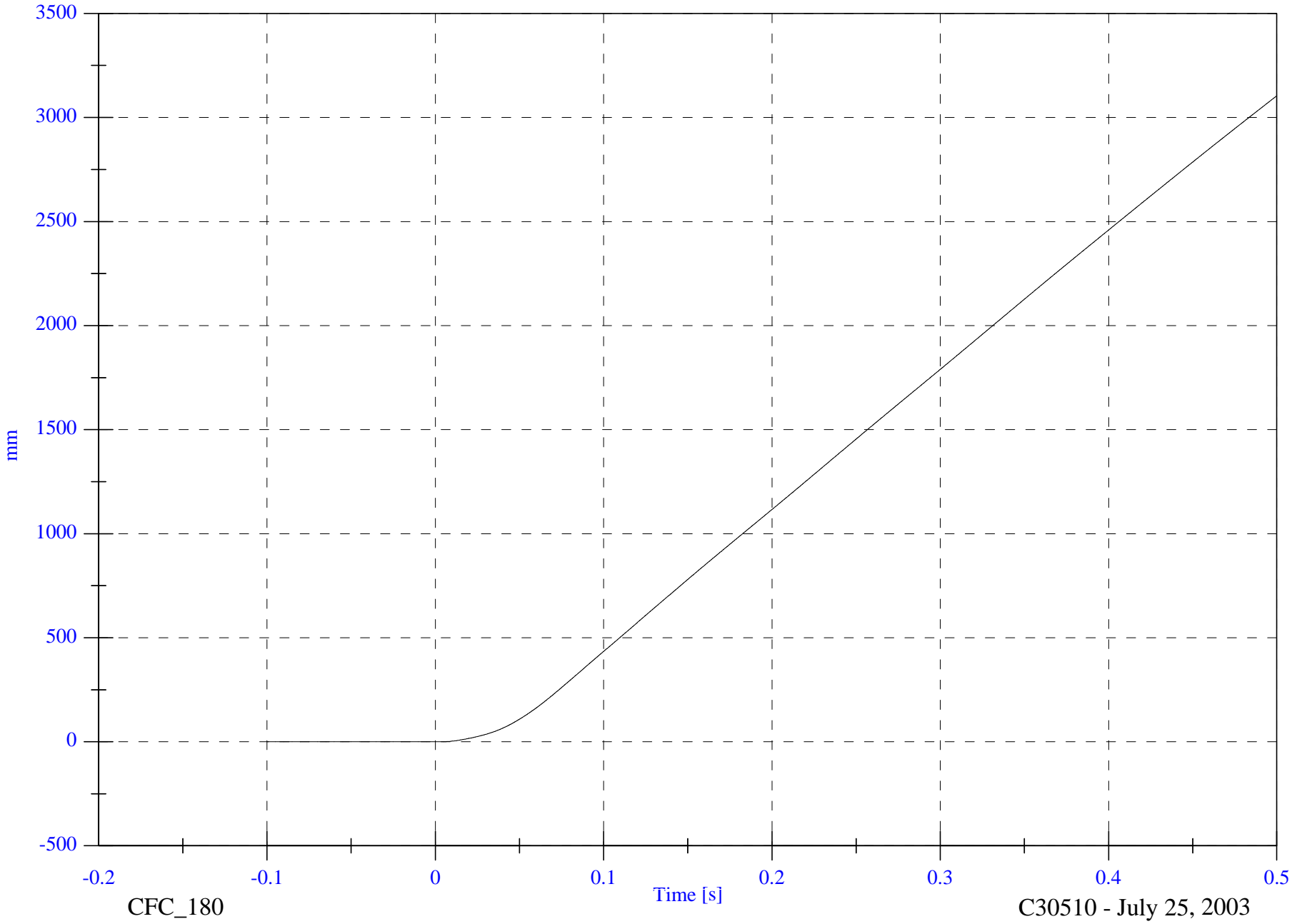
V2 Left X Member x Displacement

Max: 3103.9 [mm] at 0.500 [s]

Min: -0.0 [mm] at -0.055 [s]

B-109

8655-F301-11R



CFC\_180

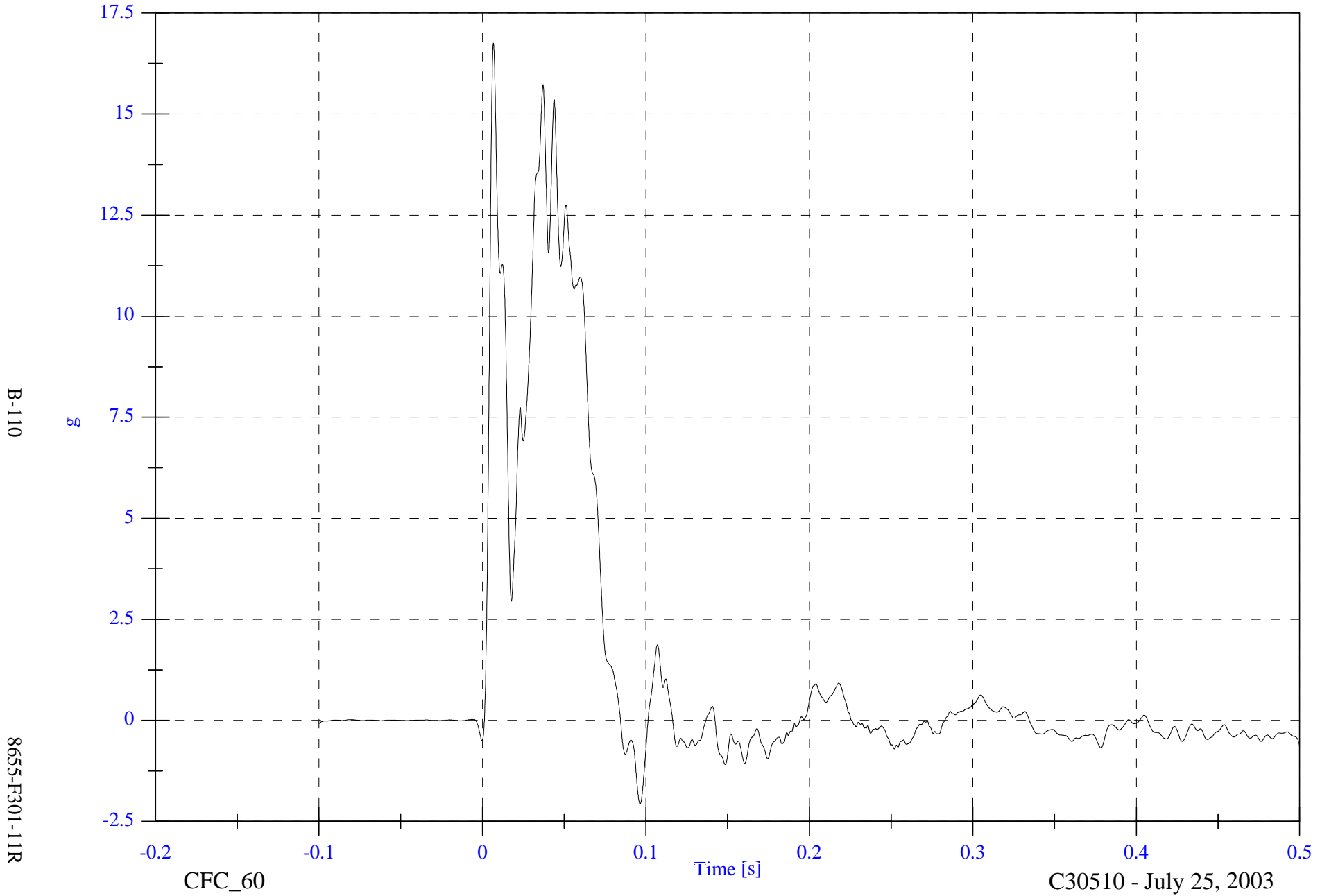
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 16.8 [g] at 0.007 [s]

V2 Left X Member RED x

Min: -2.1 [g] at 0.096 [s]



B-110

8655-F301-11R

CFC\_60

Time [s]

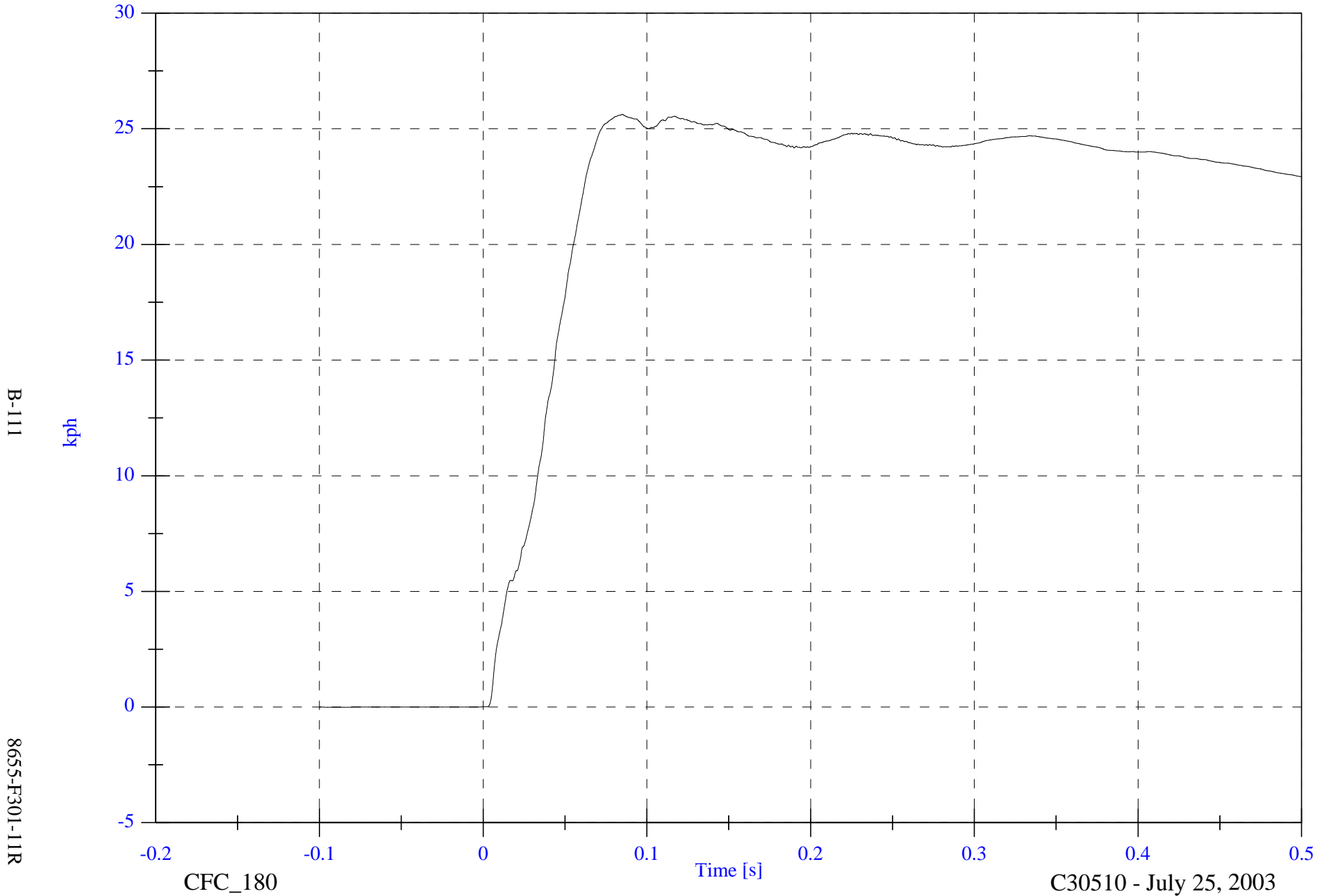
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 25.6 [kph] at 0.085 [s]

V2 Left X Member RED x Velocity

Min: -0.0 [kph] at -0.092 [s]



B-111

8655-F301-11R

CFC\_180

Time [s]

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

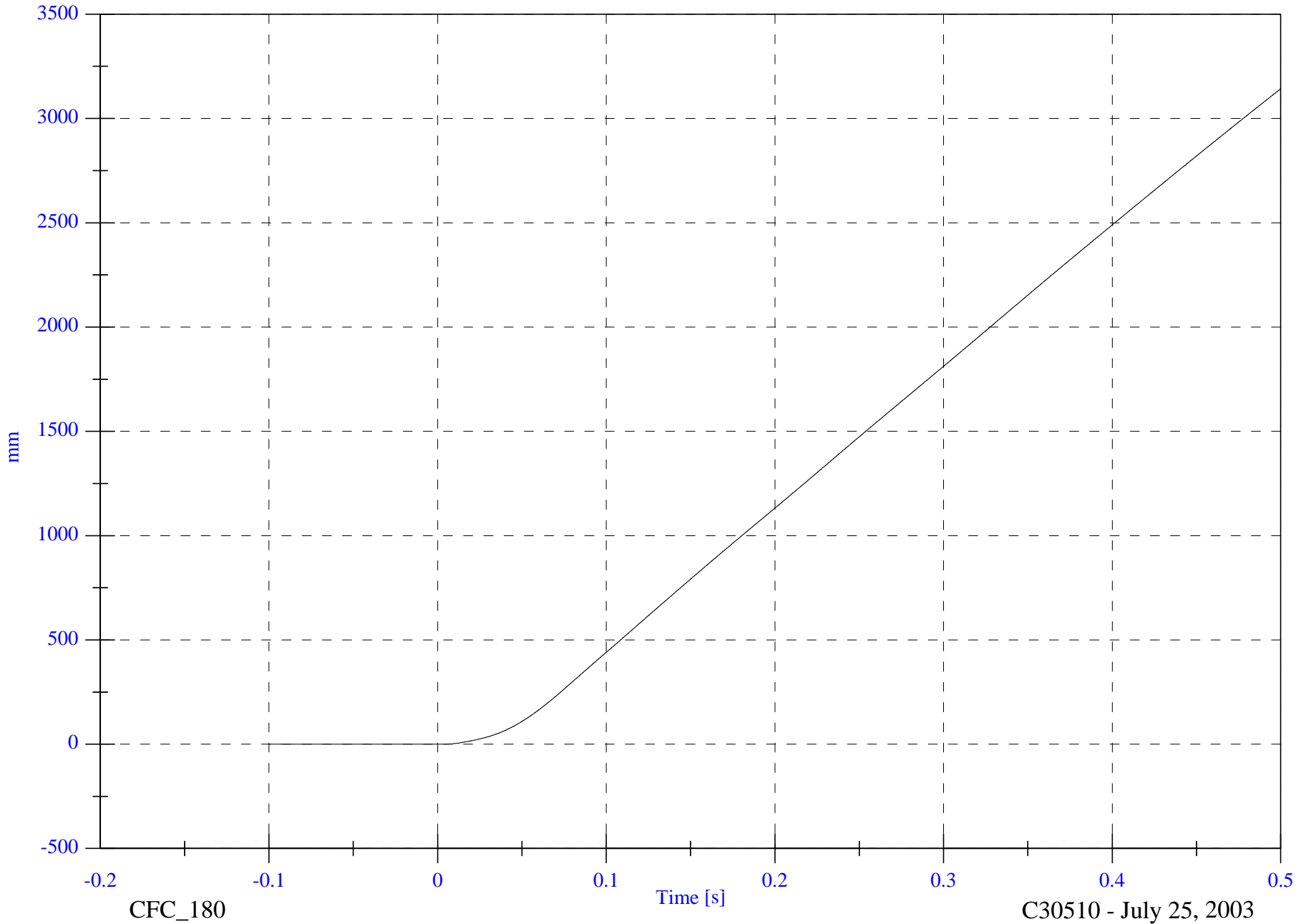
Max: 3142.3 [mm] at 0.500 [s]

V2 Left X Member RED x Displacement

Min: -0.0 [mm] at -0.055 [s]

B-112

8655-F301-11R



CFC\_180

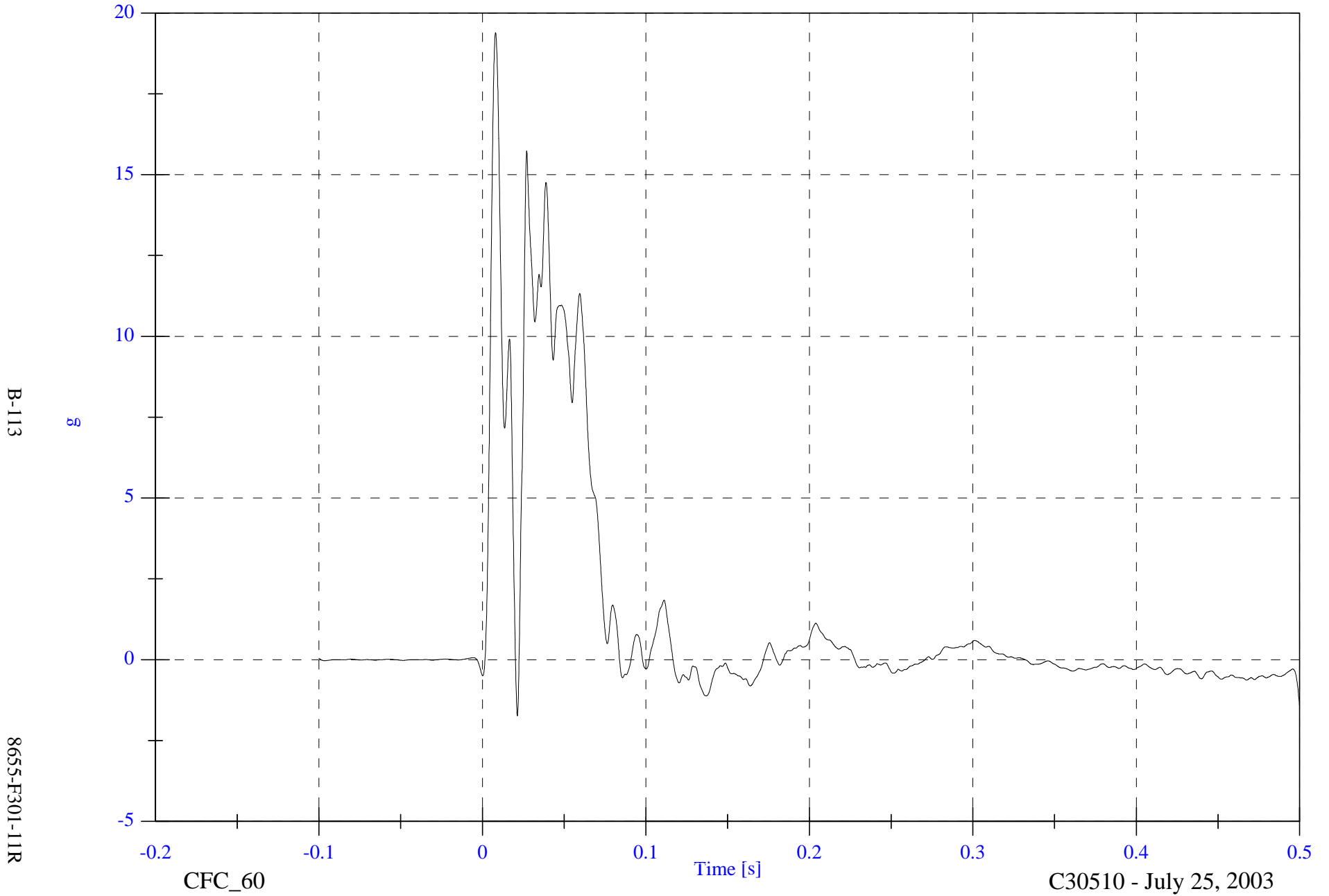
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 Right X Member x

Max: 19.4 [g] at 0.008 [s]

Min: -1.7 [g] at 0.021 [s]



2003 FMVSS 301 Test 2 2003 Saab 9-3

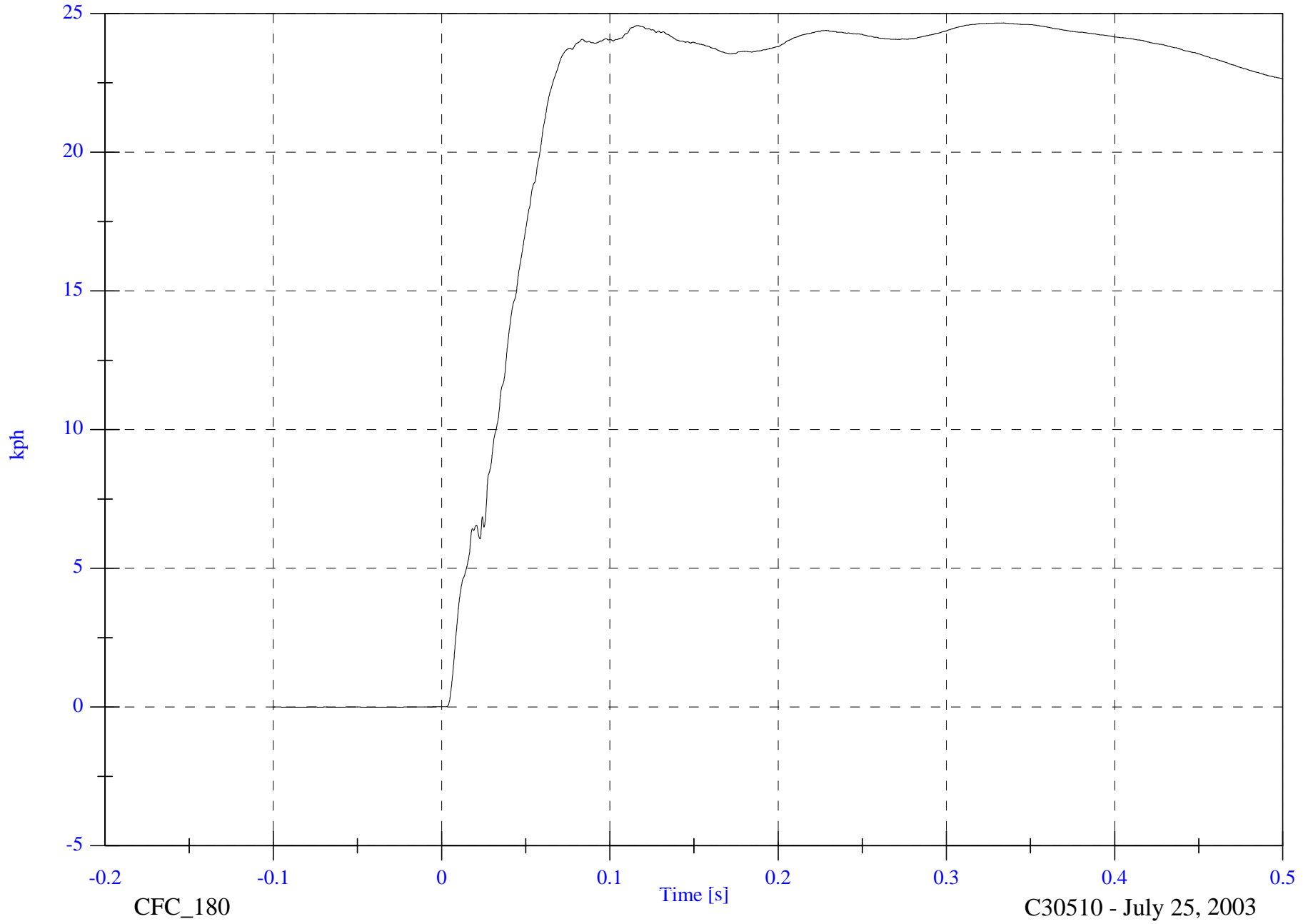
Max: 24.7 [kph] at 0.334 [s]

V2 Right X Member x Velocity

Min: -0.0 [kph] at -0.083 [s]

B-114

8655-F301-11R



CFC\_180

Time [s]

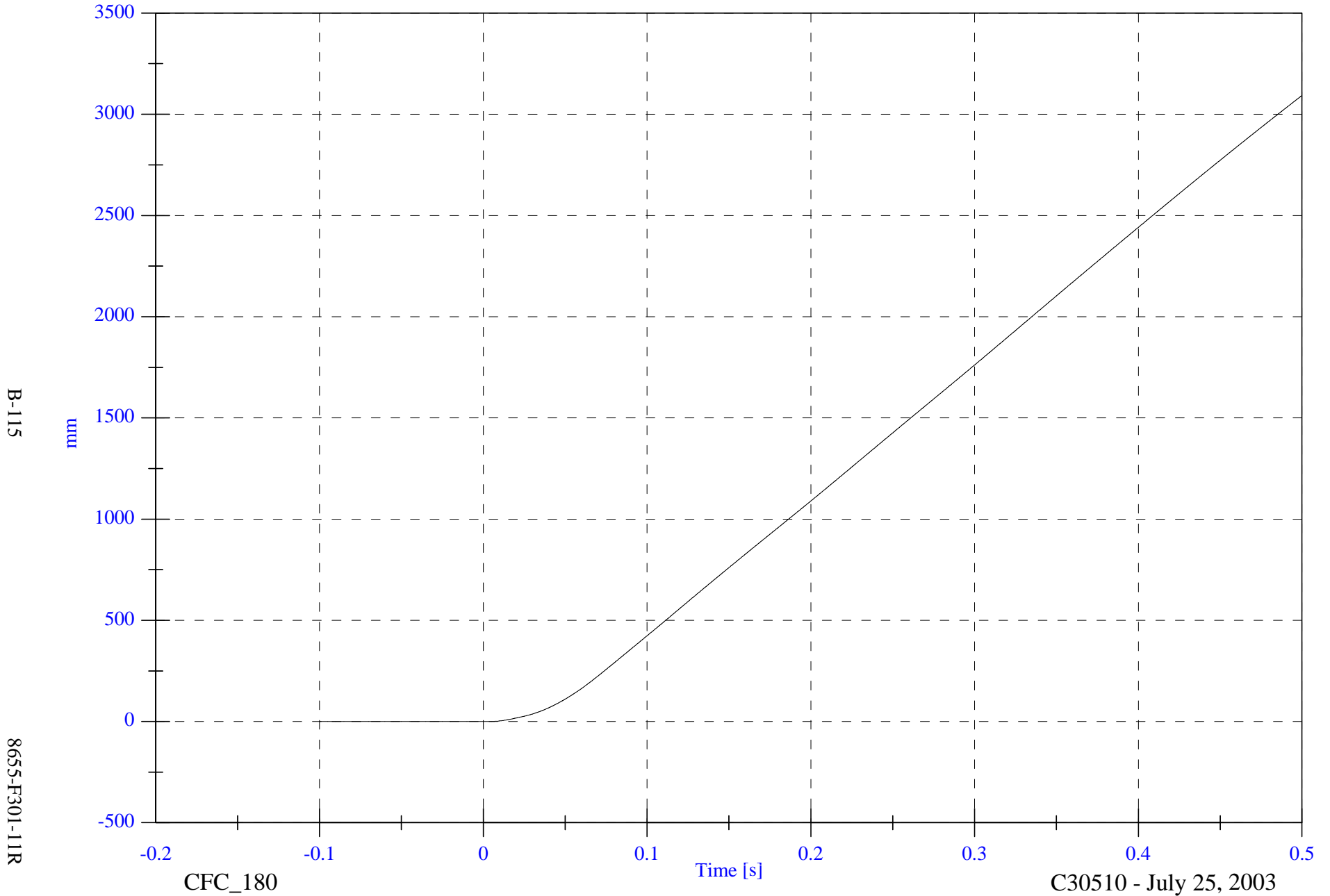
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 Right X Member x Displacement

Max: 3092.8 [mm] at 0.500 [s]

Min: -0.0 [mm] at -0.010 [s]



B-115

8655-F301-11R

CFC\_180

Time [s]

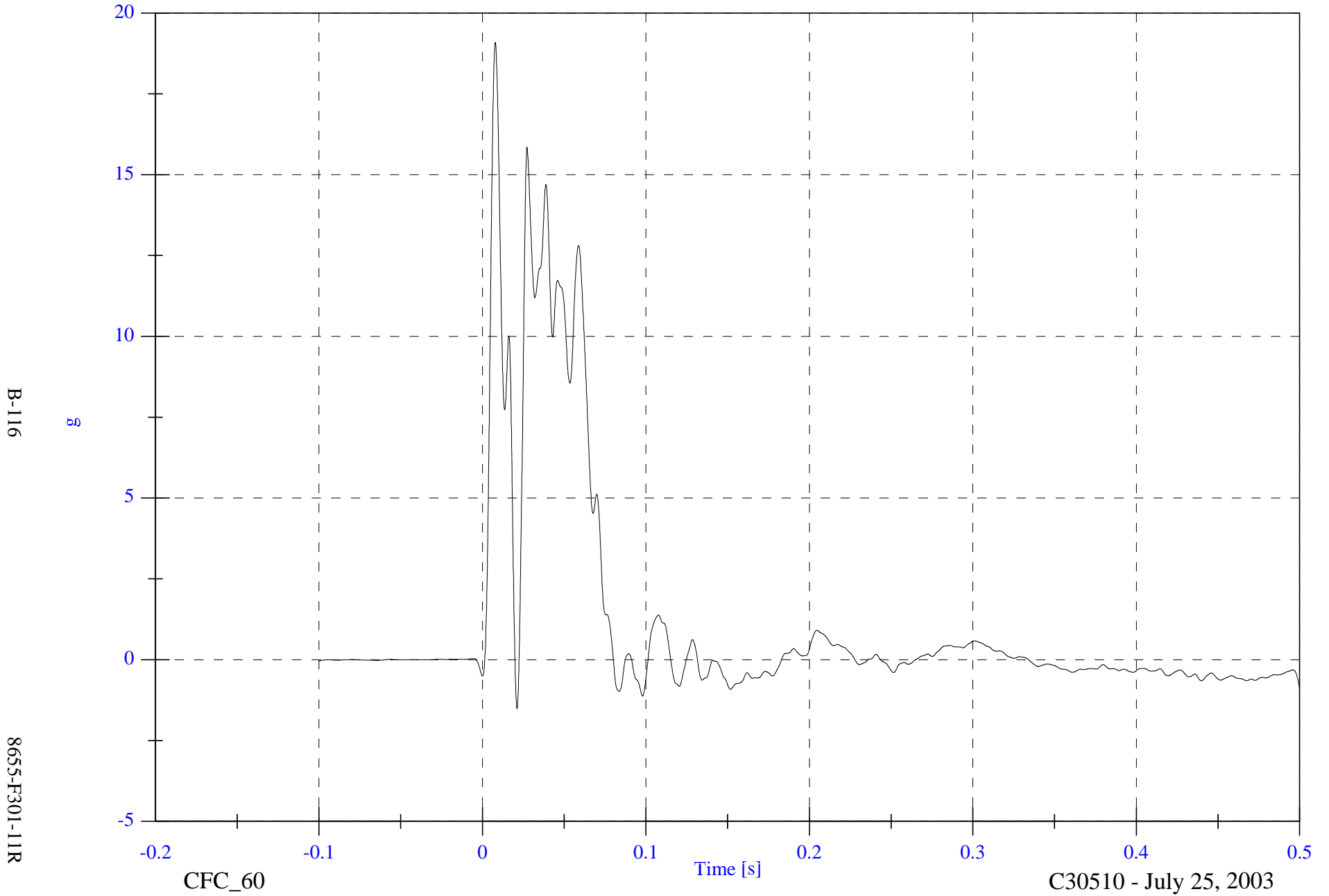
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 Right X Member RED x

Max: 19.1 [g] at 0.008 [s]

Min: -1.5 [g] at 0.021 [s]

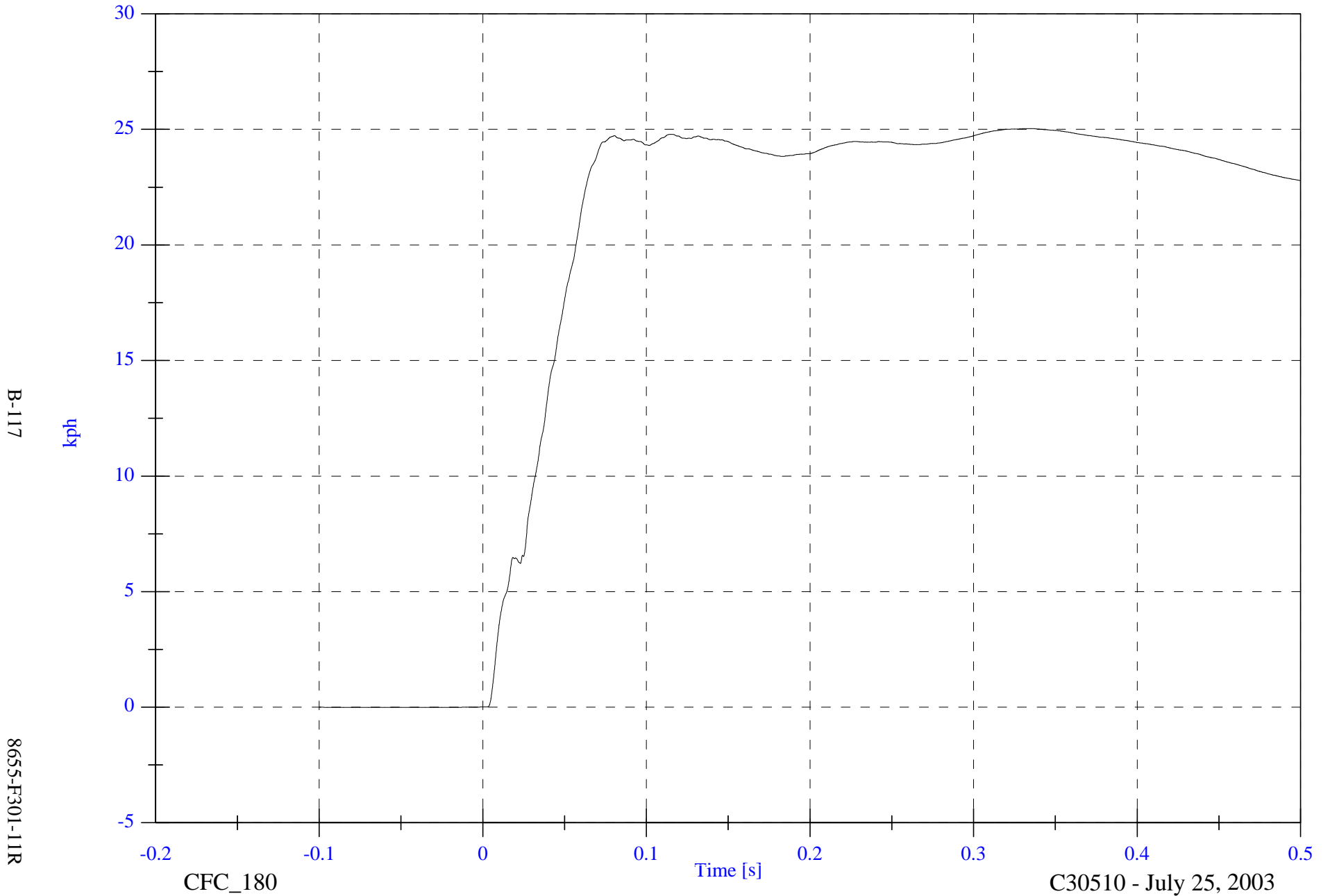


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 25.0 [kph] at 0.334 [s]

V2 Right X Member RED x Velocity

Min: -0.0 [kph] at -0.060 [s]



B-117

8655-F301-11R

CFC\_180

Time [s]

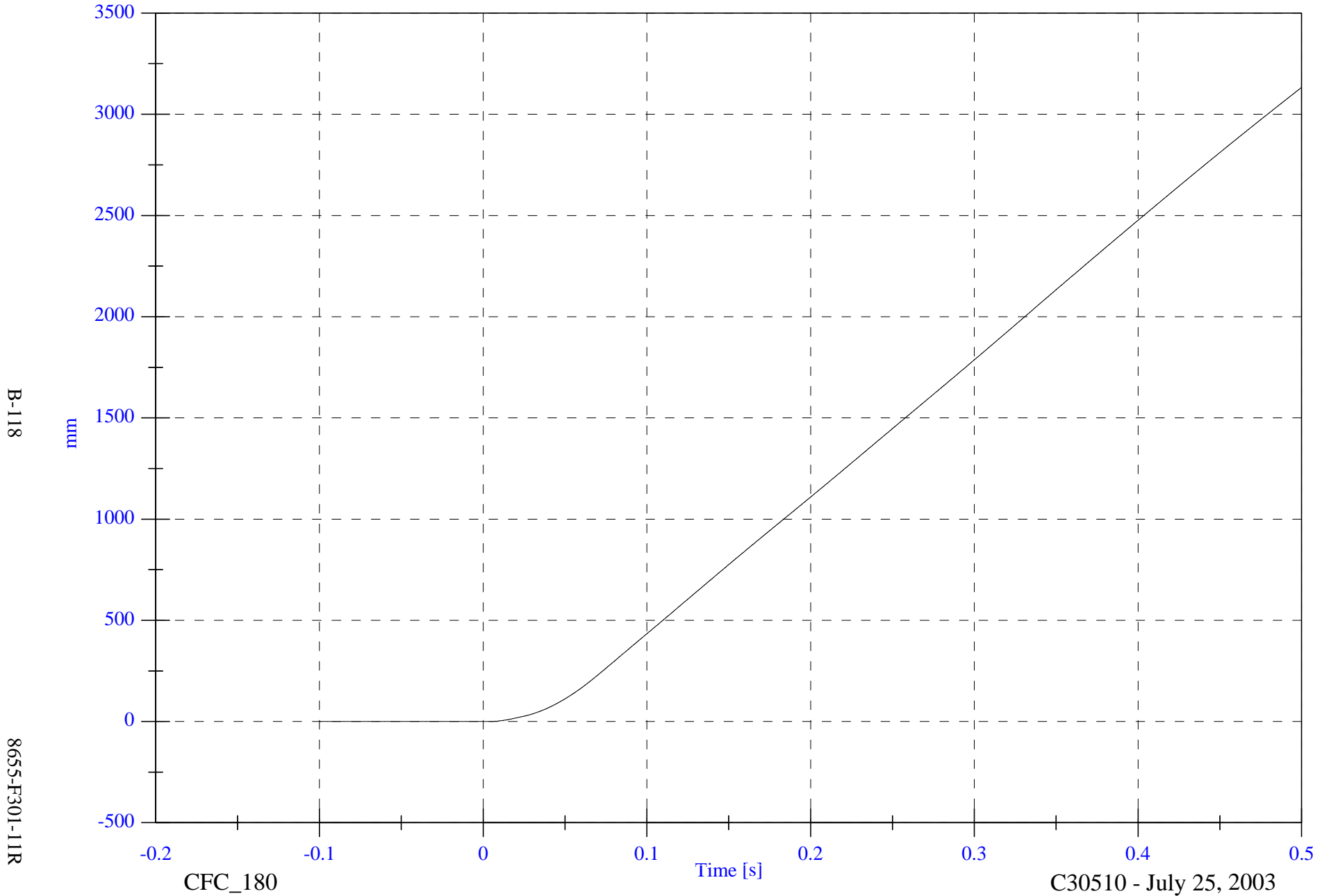
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 Right X Member RED x Displacement

Max: 3132.5 [mm] at 0.500 [s]

Min: -0.0 [mm] at -0.010 [s]



B-118

8655-F301-11R

CFC\_180

Time [s]

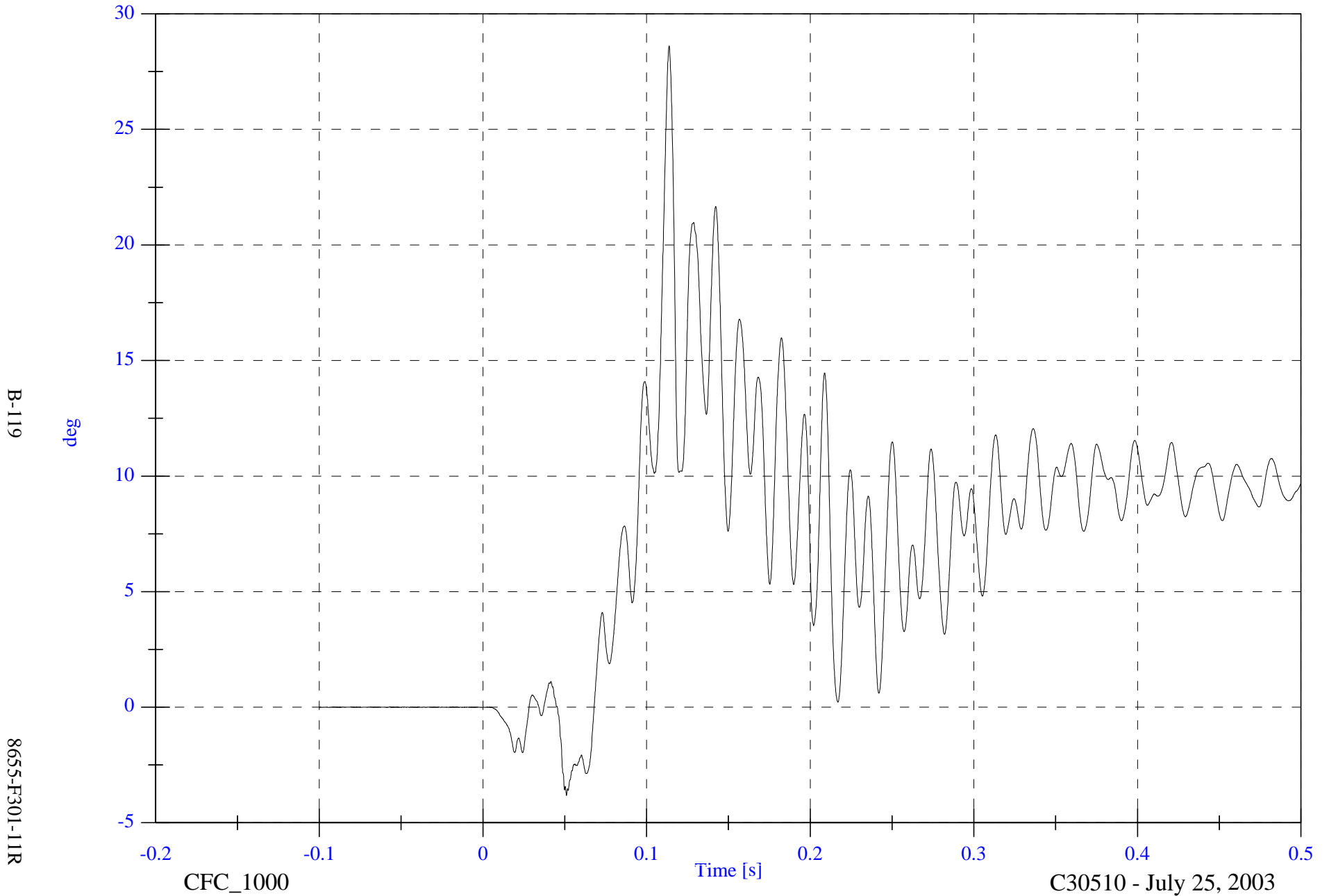
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P1 Left Link Rotation y

Max: 28.6 [deg] at 0.114 [s]

Min: -3.8 [deg] at 0.051 [s]

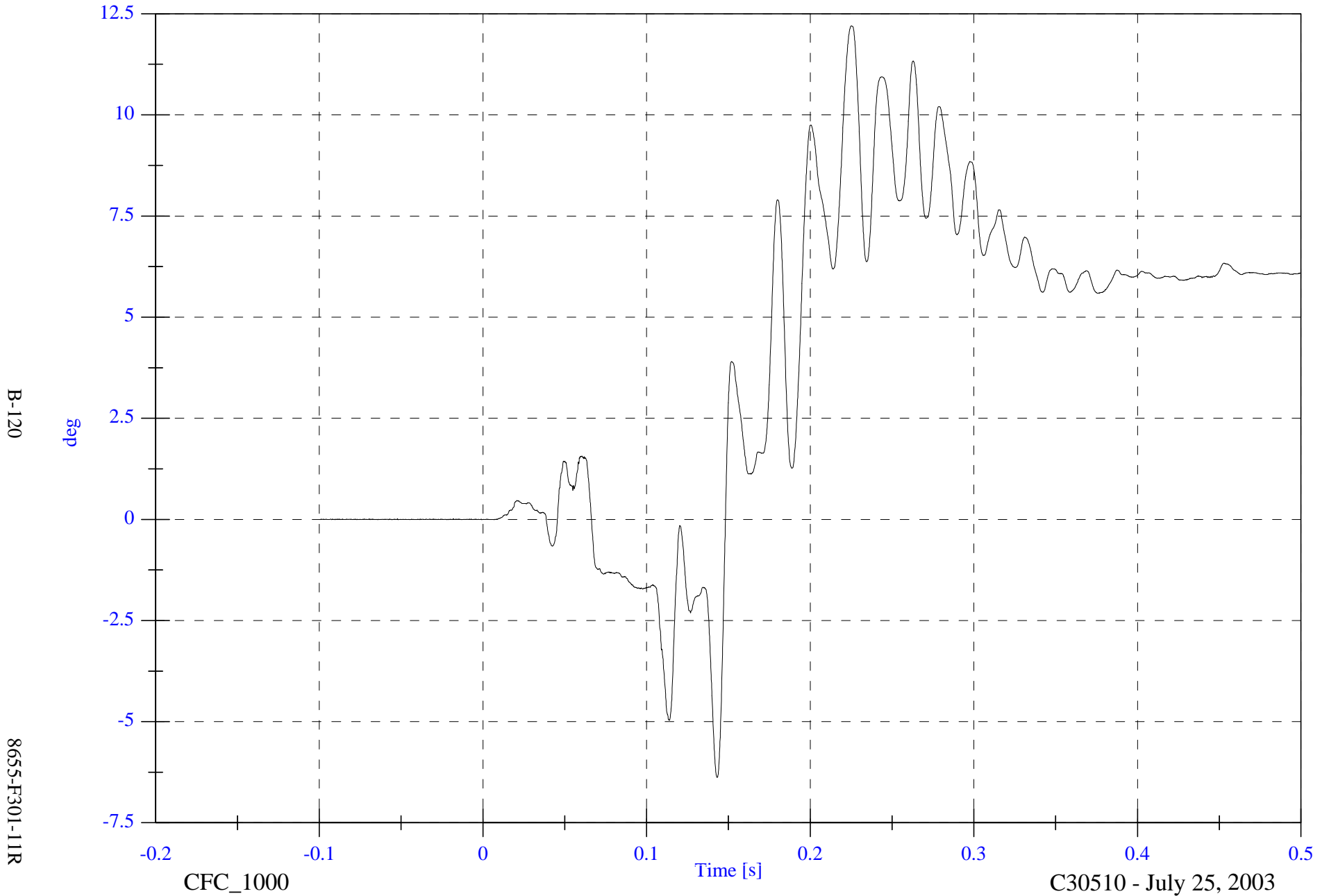


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P1 Right Link Rotation y

Max: 12.2 [deg] at 0.225 [s]

Min: -6.4 [deg] at 0.143 [s]



B-120

8655-F301-11R

CFC\_1000

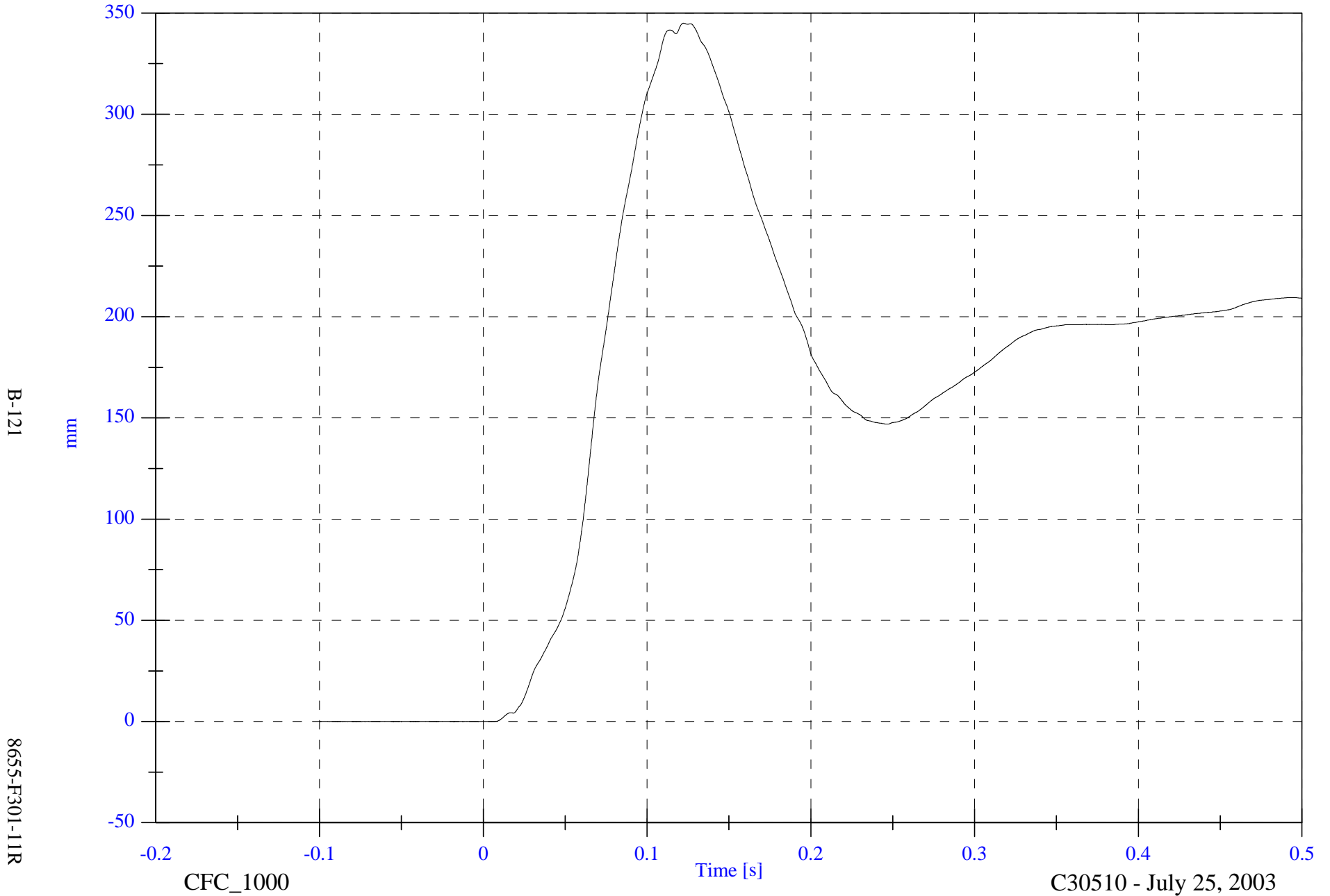
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P1 Left Span Bar Displacement

Max: 345.0 [mm] at 0.122 [s]

Min: -0.1 [mm] at -0.018 [s]



B-121

8655-F301-11R

CFC\_1000

Time [s]

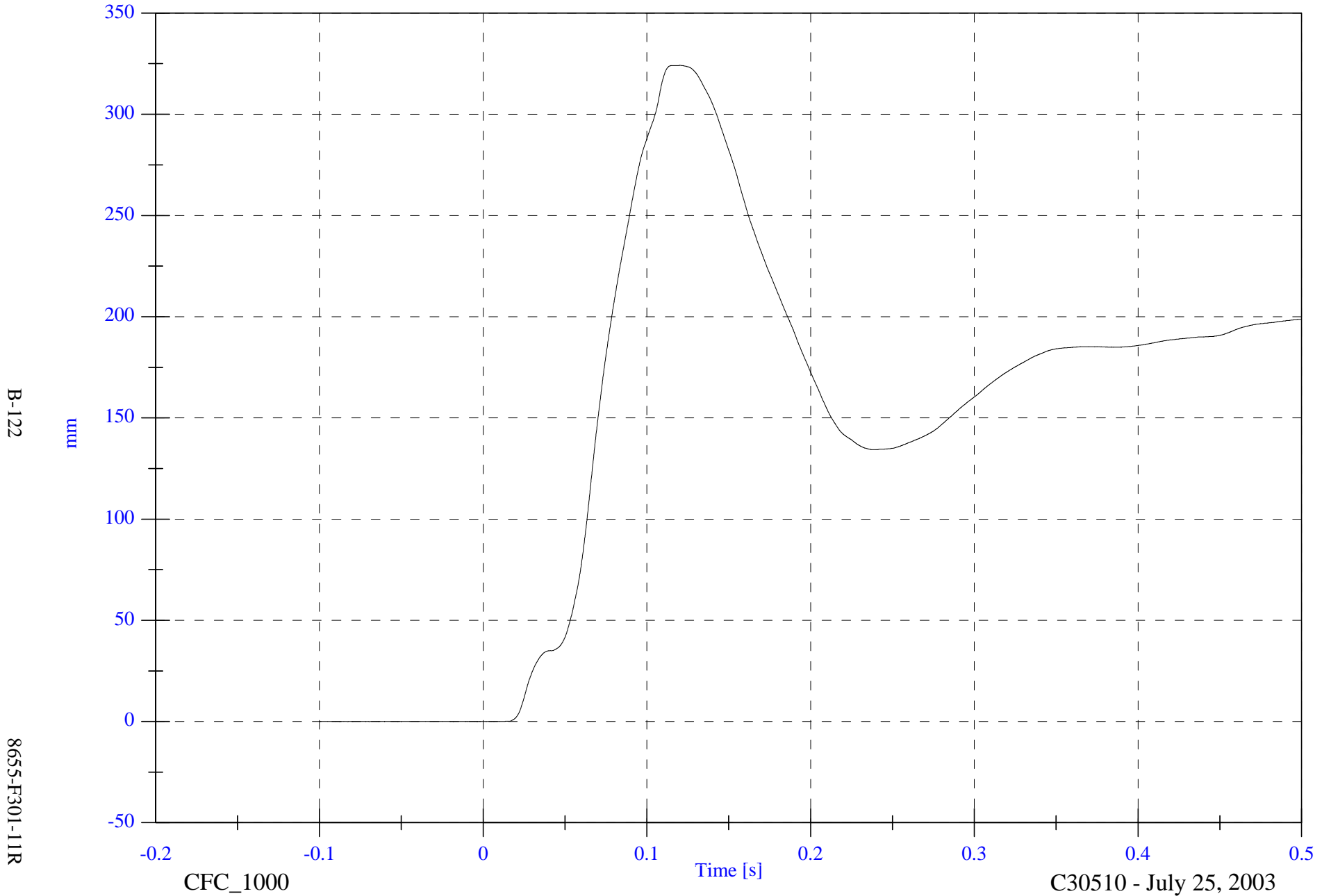
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 324.2 [mm] at 0.120 [s]

V2 P1 Right Span Bar Displacement

Min: -0.1 [mm] at -0.018 [s]



B-122

8655-F301-11R

CFC\_1000

Time [s]

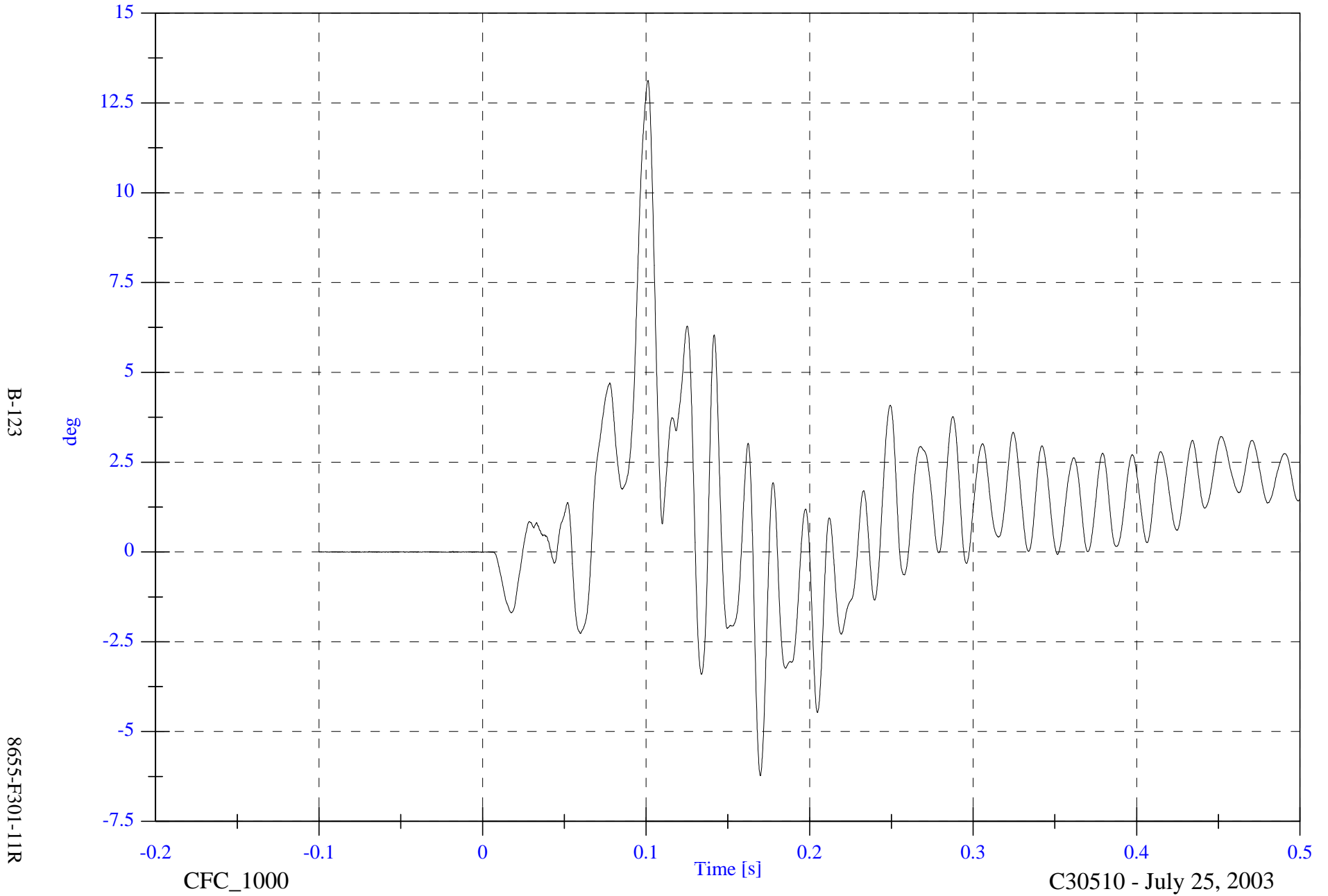
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P2 Left Link Rotation y

Max: 13.1 [deg] at 0.101 [s]

Min: -6.2 [deg] at 0.170 [s]

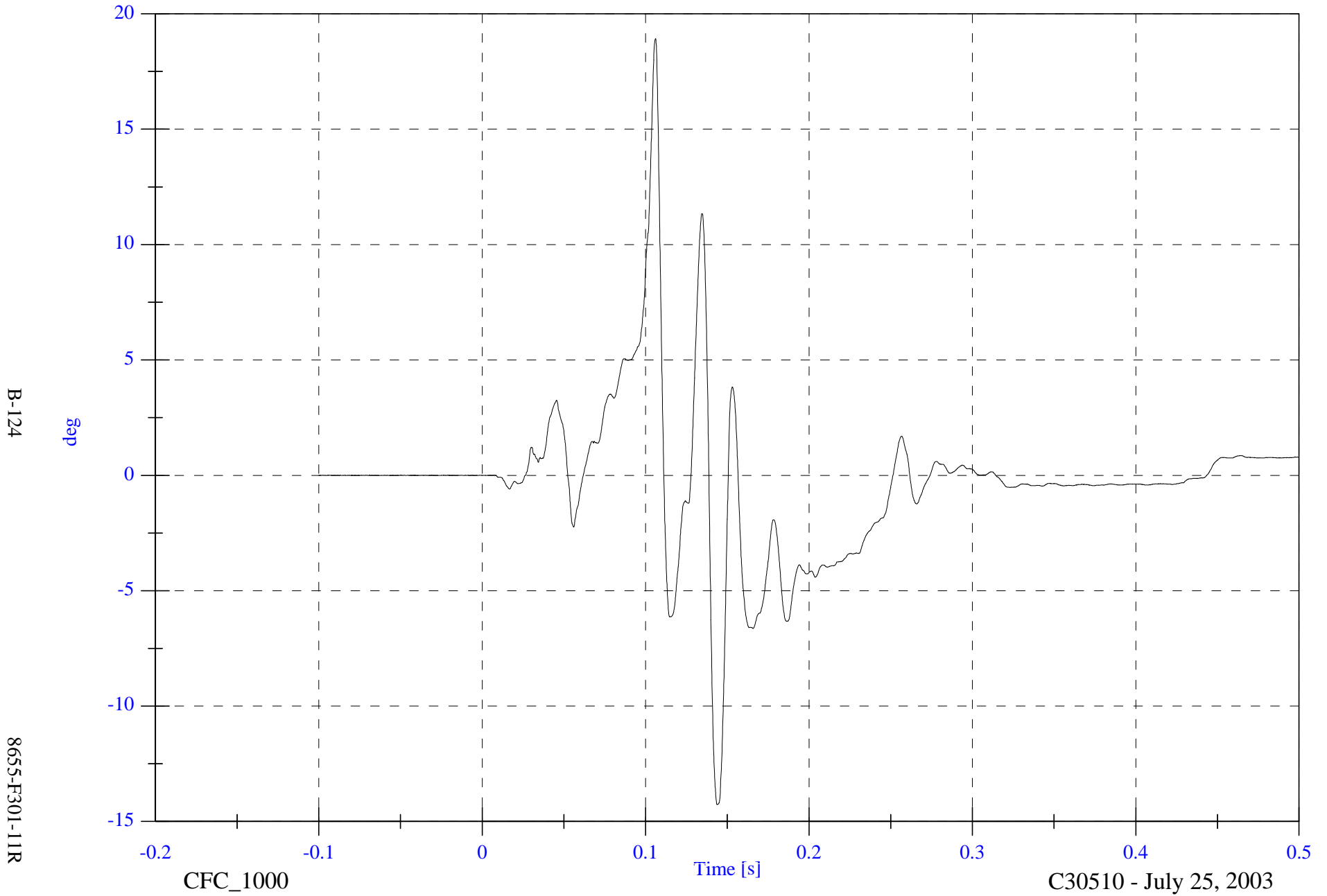


2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P2 Right Link Rotation y

Max: 18.9 [deg] at 0.106 [s]

Min: -14.3 [deg] at 0.144 [s]



B-124

8655-F301-11R

CFC\_1000

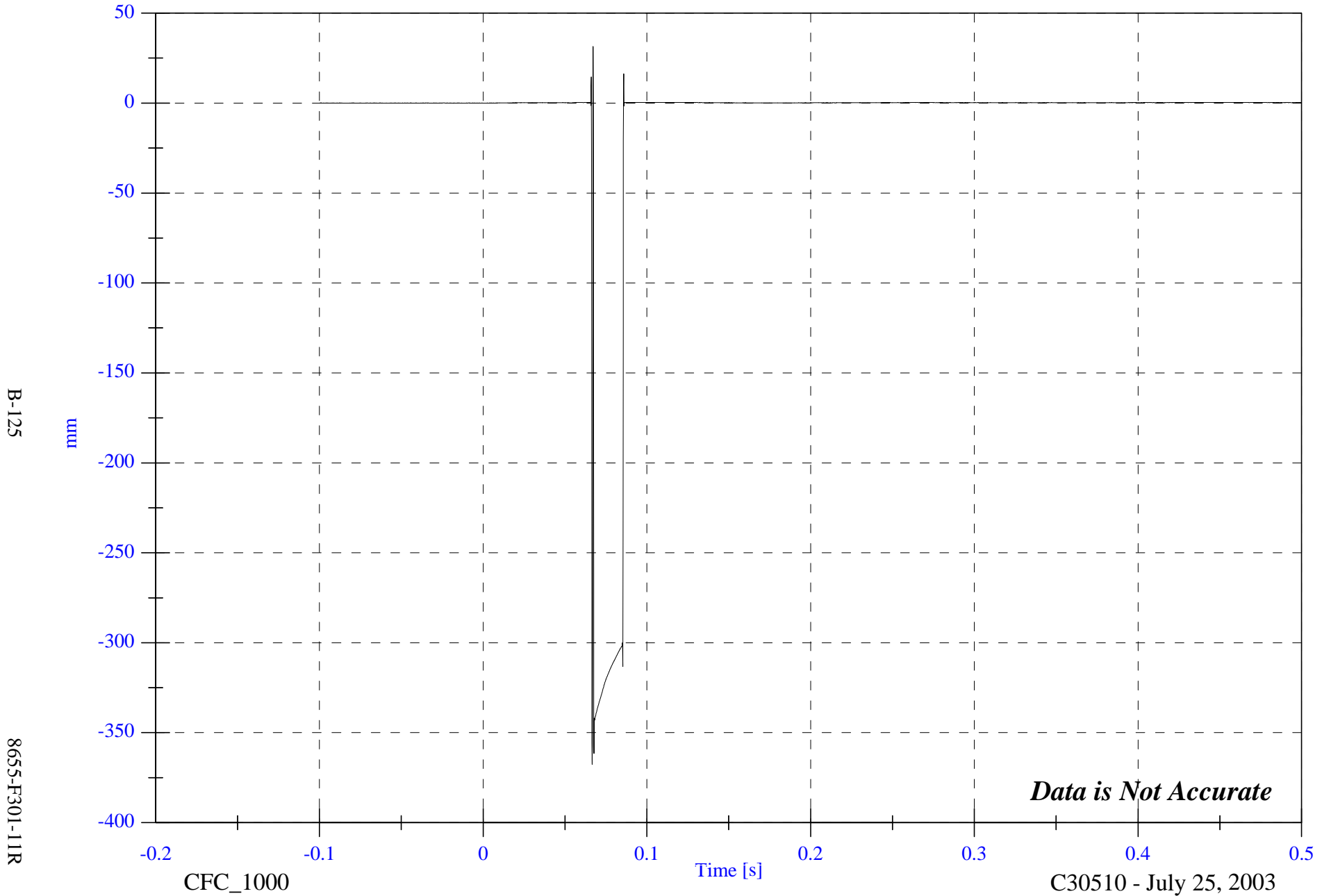
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

V2 P2 Left Span Bar Displacement

Max: 31.5 [mm] at 0.067 [s]

Min: -367.6 [mm] at 0.067 [s]



*Data is Not Accurate*

B-125

8655-F301-11R

CFC\_1000

Time [s]

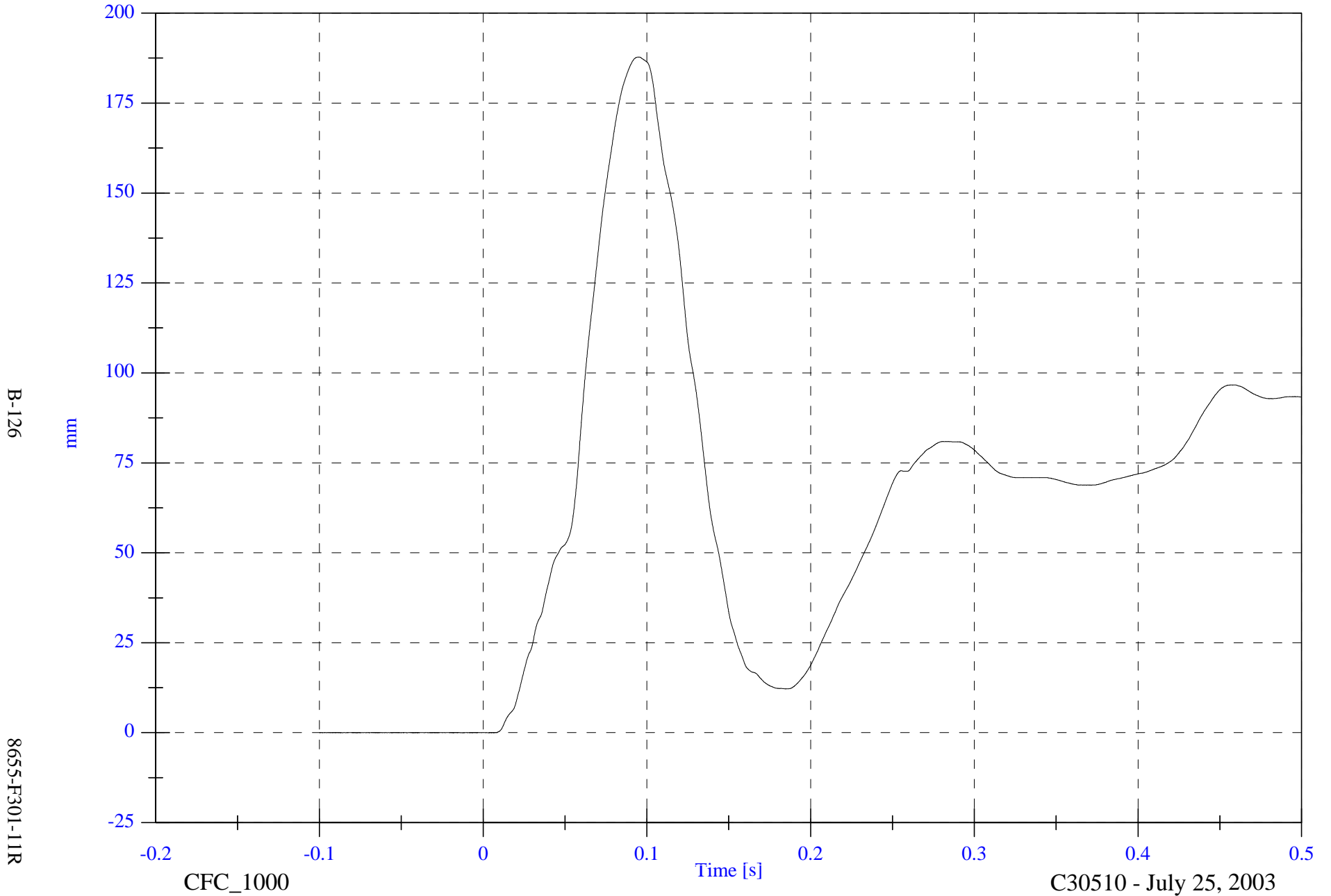
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 187.8 [mm] at 0.096 [s]

V2 P2 Right Span Bar Displacement

Min: -0.1 [mm] at -0.018 [s]



B-126

8655-F301-11R

CFC\_1000

Time [s]

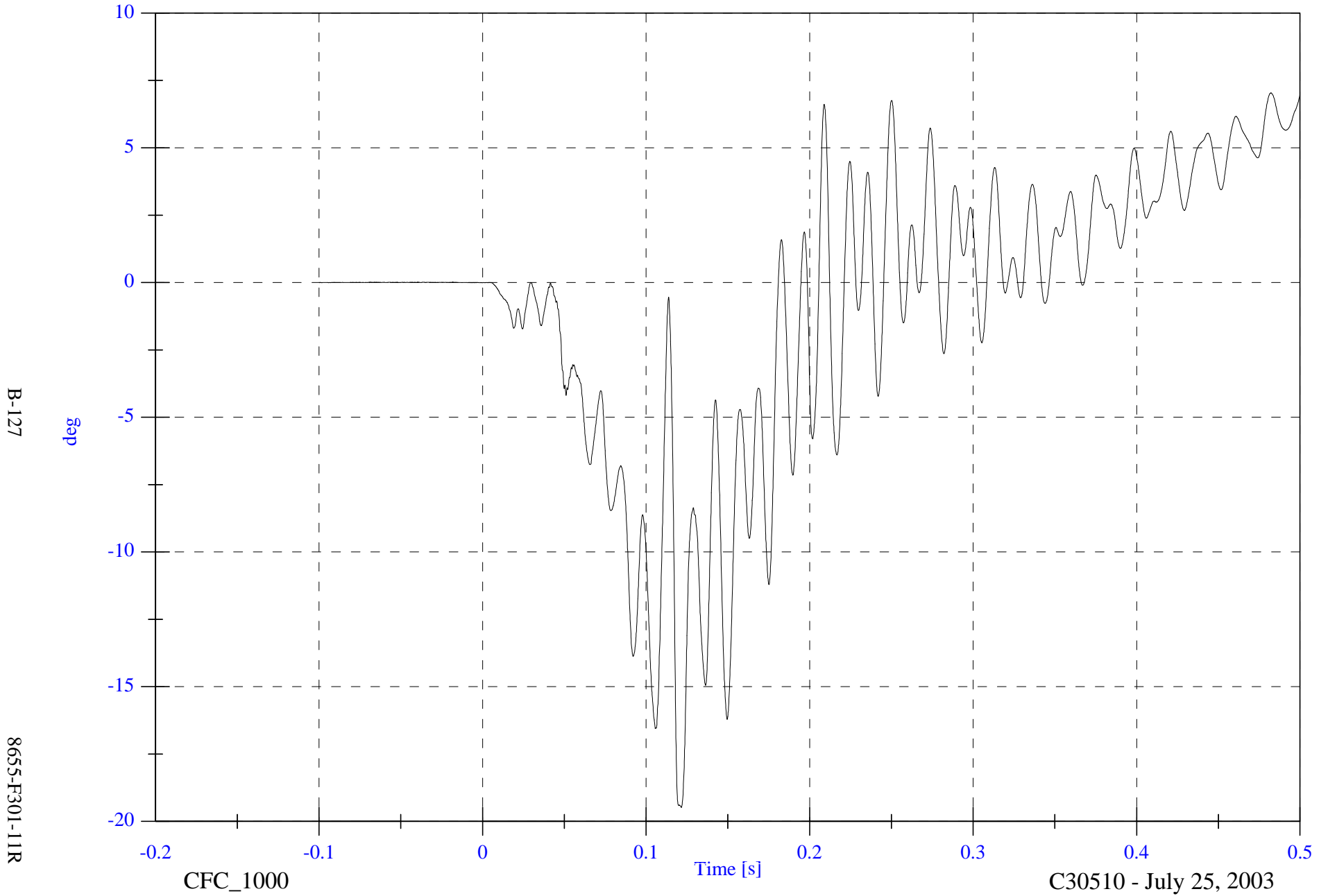
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

P1 Left Change in String Angle

Max: 7.0 [deg] at 0.482 [s]

Min: -19.5 [deg] at 0.122 [s]

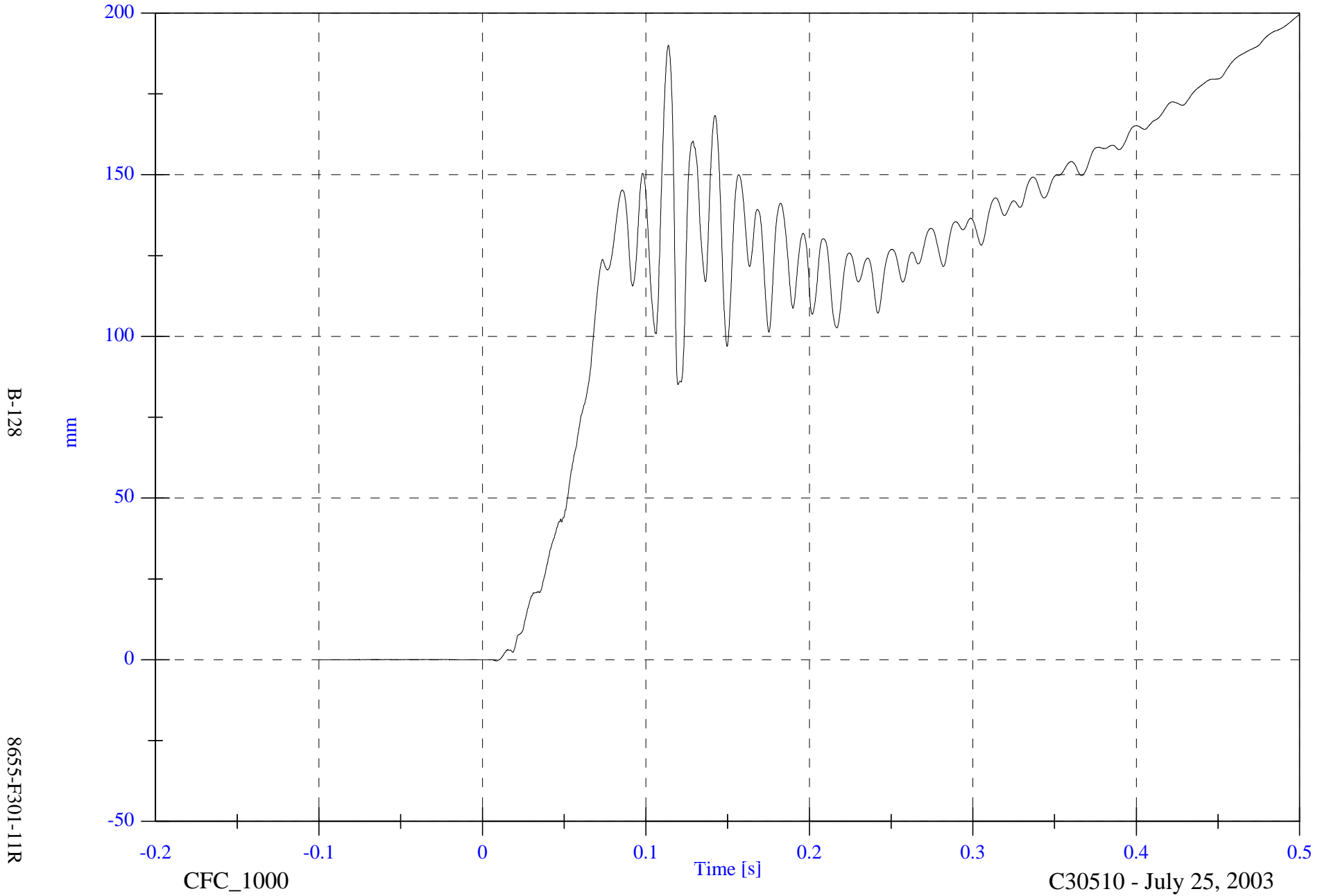


2003 FMVSS 301 Test 2 2003 Saab 9-3

P1 Left Seat X Displacement

Max: 199.7 [mm] at 0.500 [s]

Min: -0.4 [mm] at 0.008 [s]



B-128

8655-F301-11R

CFC\_1000

Time [s]

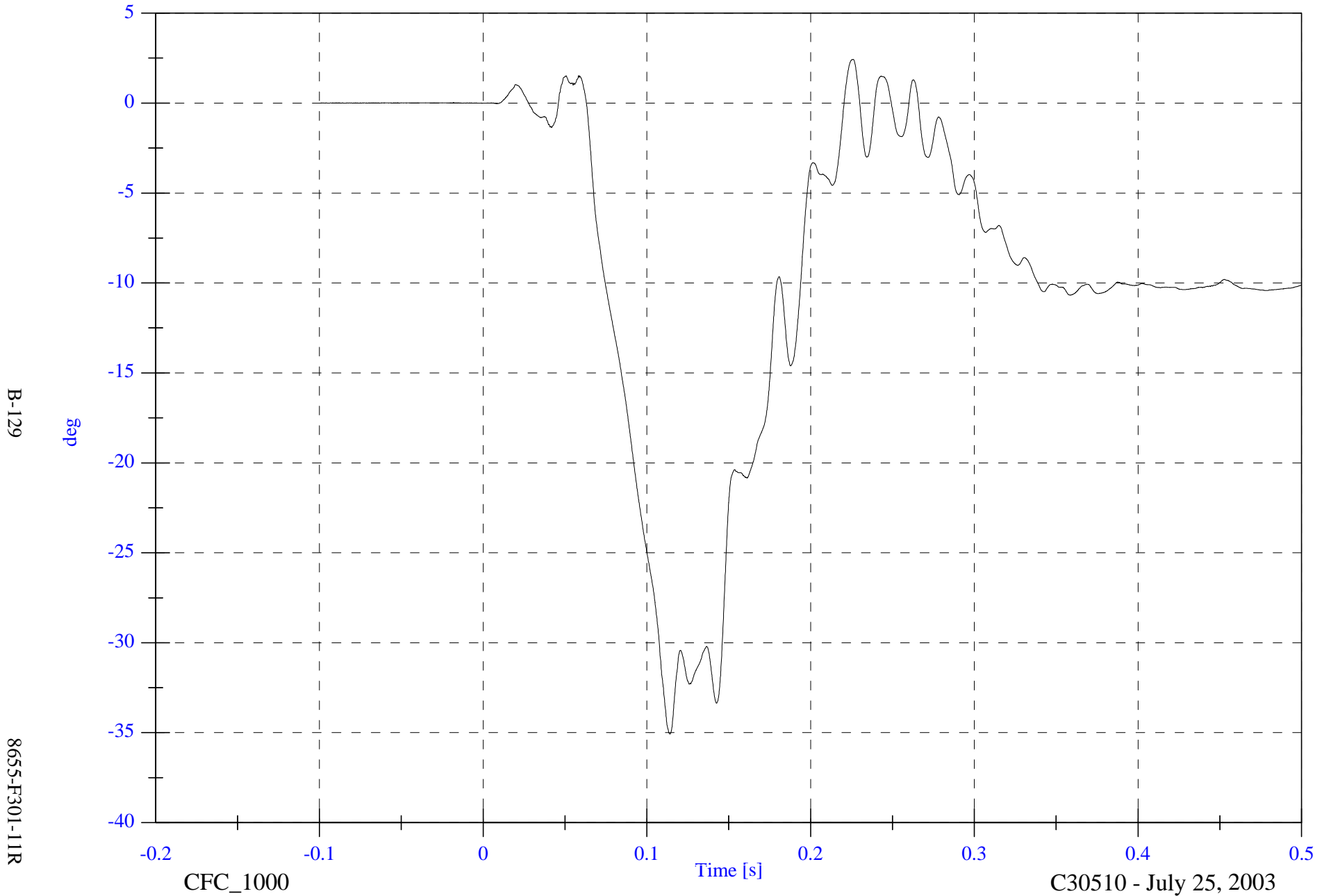
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

P1 Right Change in String Angle

Max: 2.4 [deg] at 0.226 [s]

Min: -35.1 [deg] at 0.114 [s]



B-129

8655-F301-11R

CFC\_1000

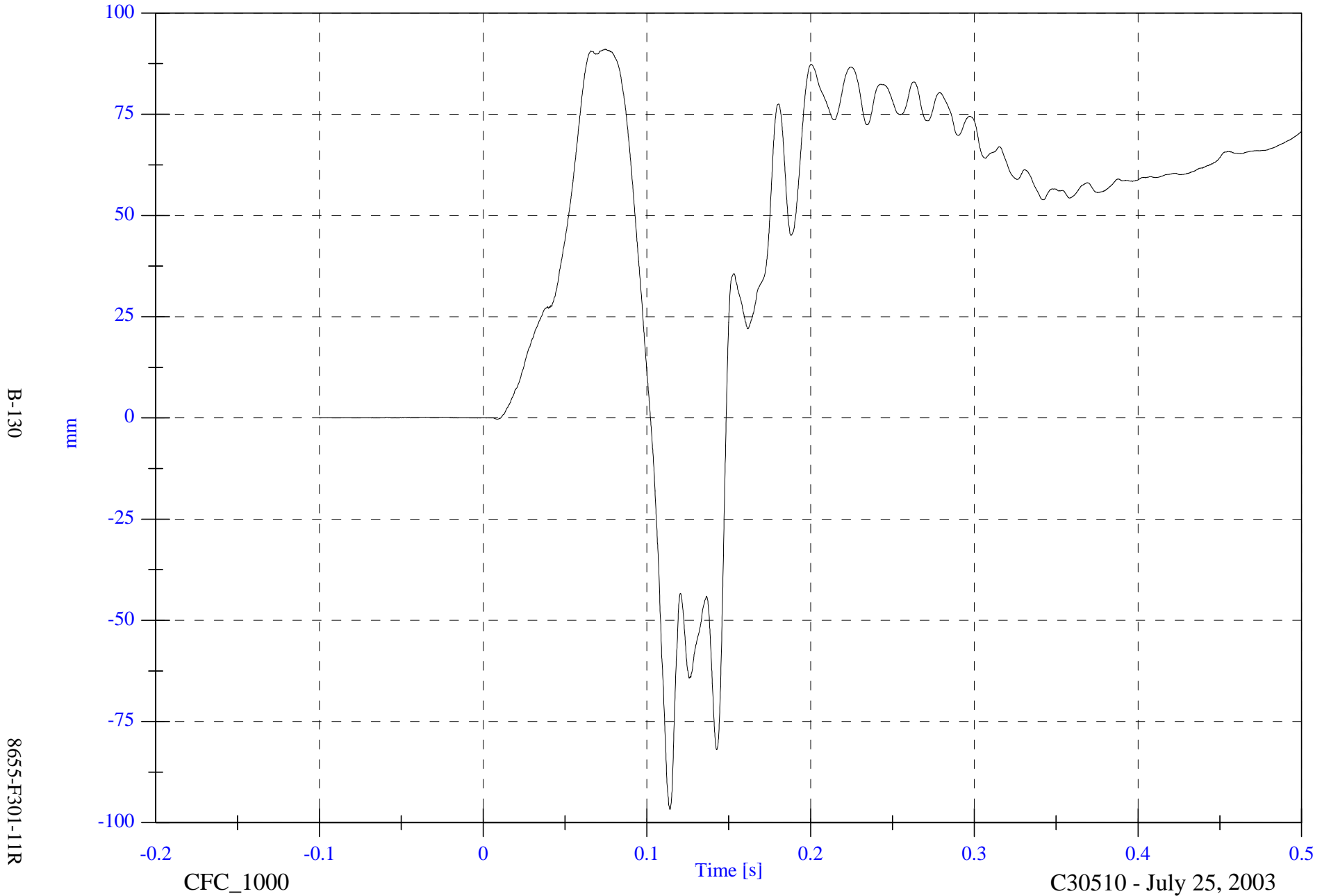
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 91.1 [mm] at 0.074 [s]

Min: -96.7 [mm] at 0.114 [s]

### P1 Right Seat X Displacement

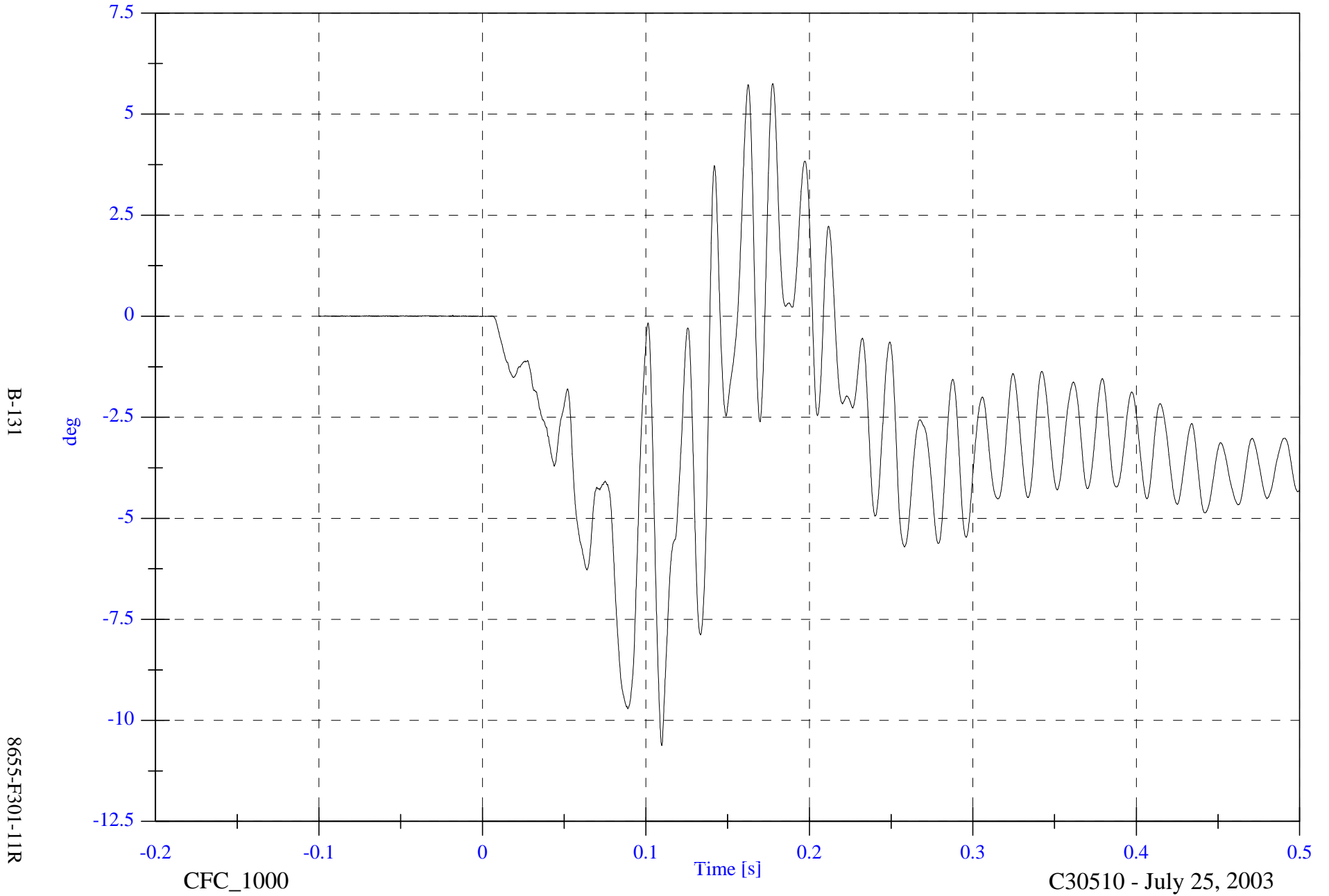


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 5.8 [deg] at 0.178 [s]

P2 Left Change in String Angle

Min: -10.6 [deg] at 0.110 [s]



B-131

8655-F301-11R

CFC\_1000

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2003 FMVSS 301 Test 2 2003 Saab 9-3

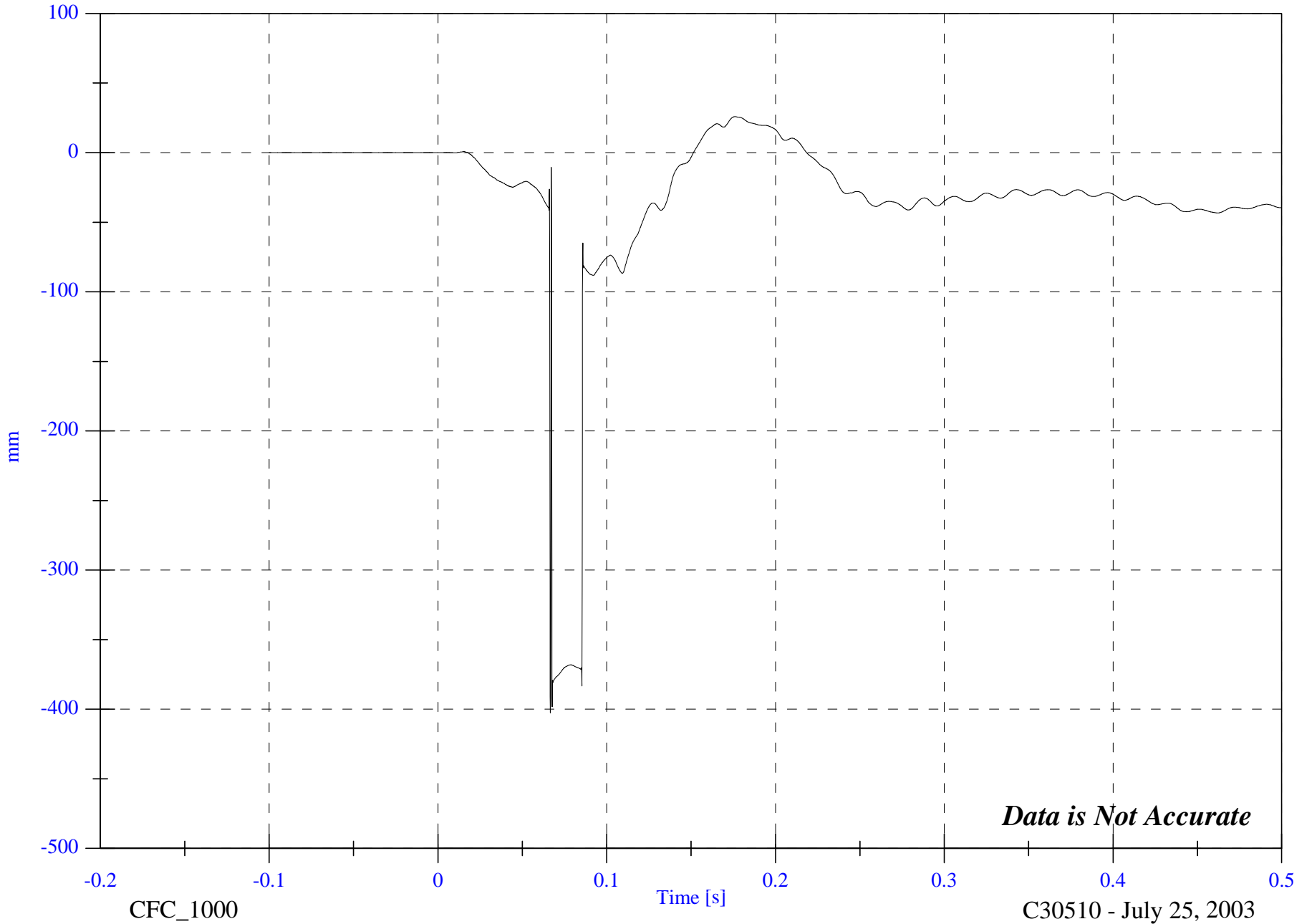
P2 Left Seat X Displacement

Max: 25.9 [mm] at 0.176 [s]

Min: -402.5 [mm] at 0.067 [s]

B-132

8655-F301-11R



*Data is Not Accurate*

CFC\_1000

Time [s]

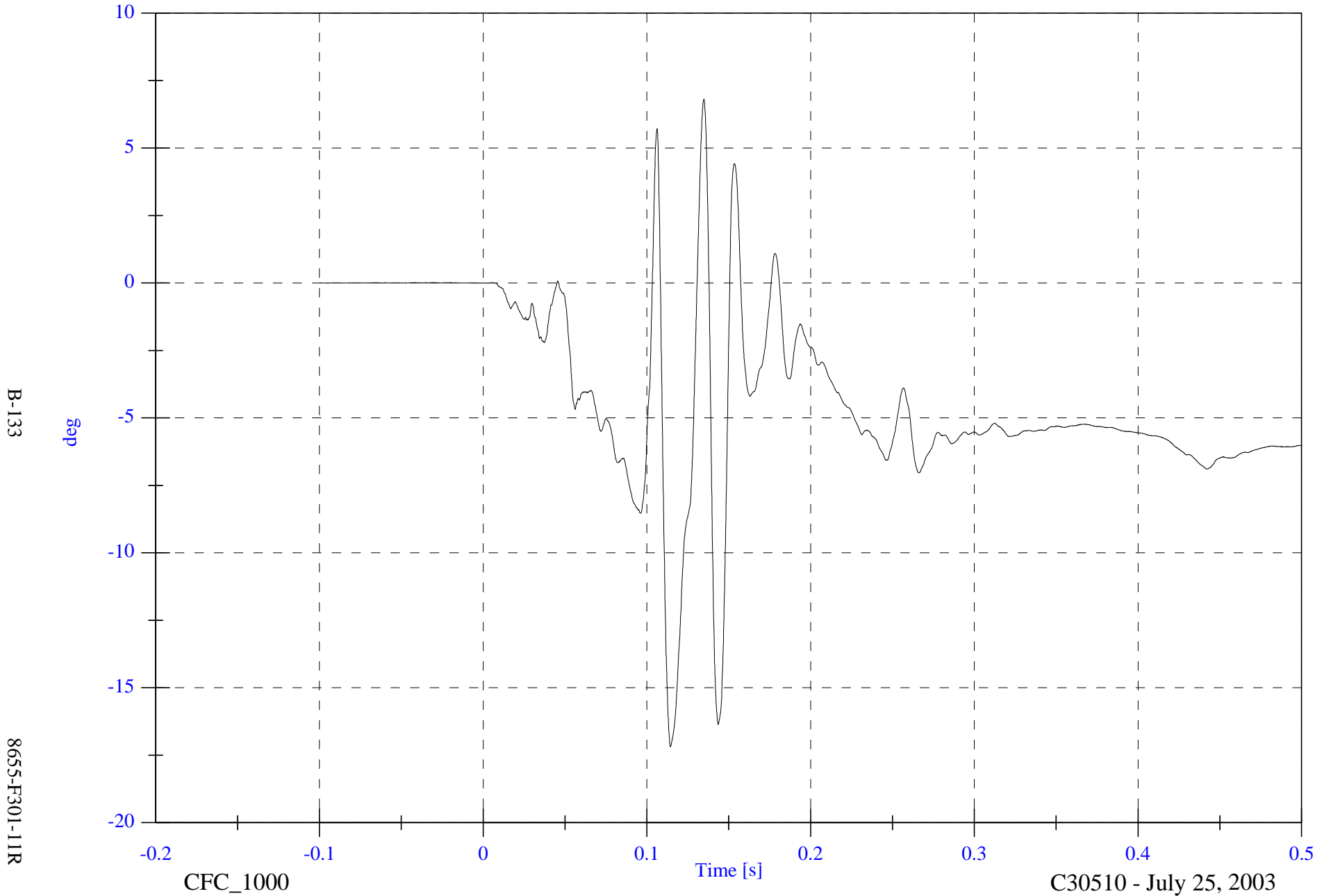
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

P2 Right Change in String Angle

Max: 6.8 [deg] at 0.135 [s]

Min: -17.2 [deg] at 0.114 [s]

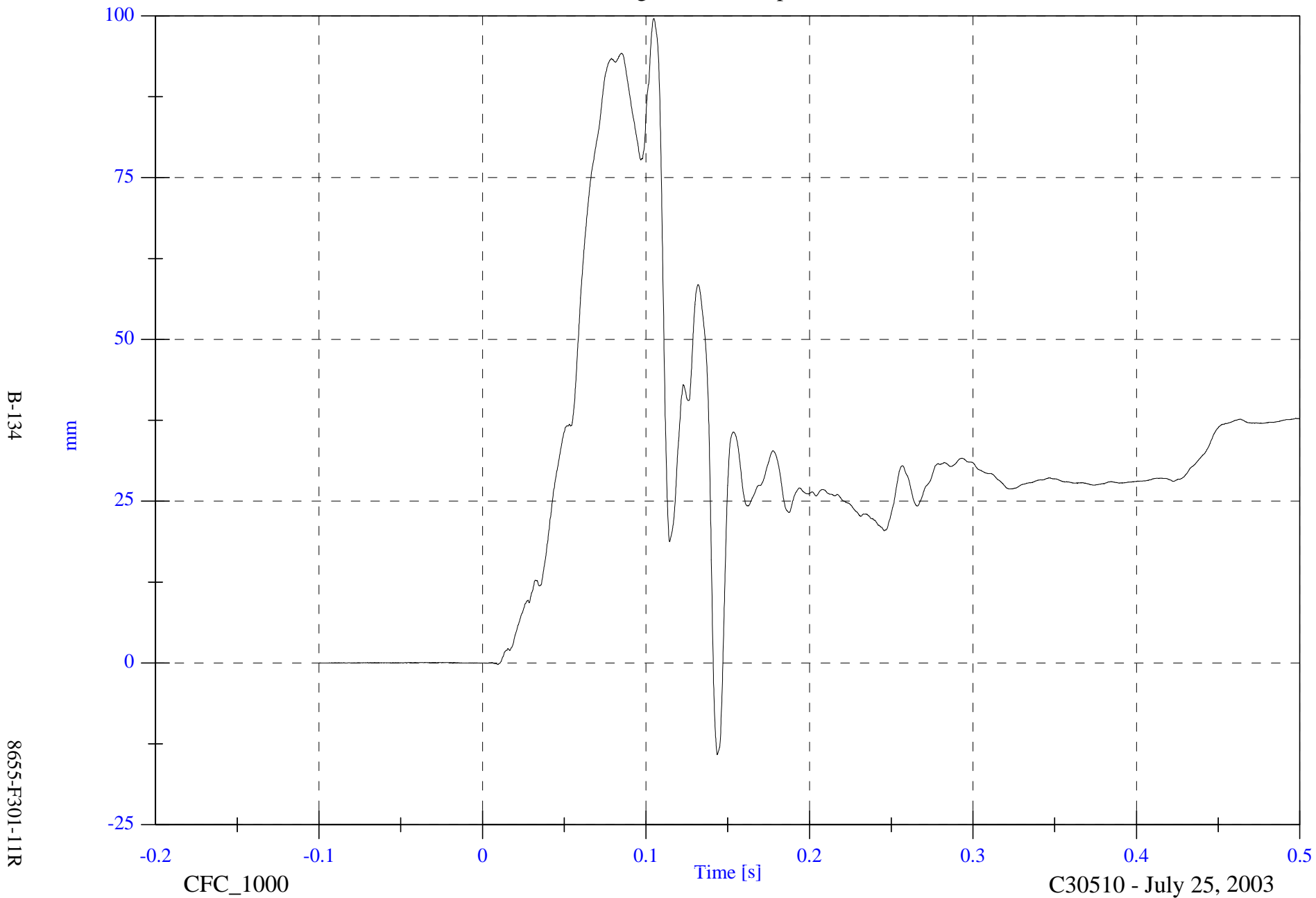


2003 FMVSS 301 Test 2 2003 Saab 9-3

Max: 99.6 [mm] at 0.105 [s]

Min: -14.2 [mm] at 0.144 [s]

### P2 Right Seat X Displacement



B-134

8655-F301-11R

CFC\_1000

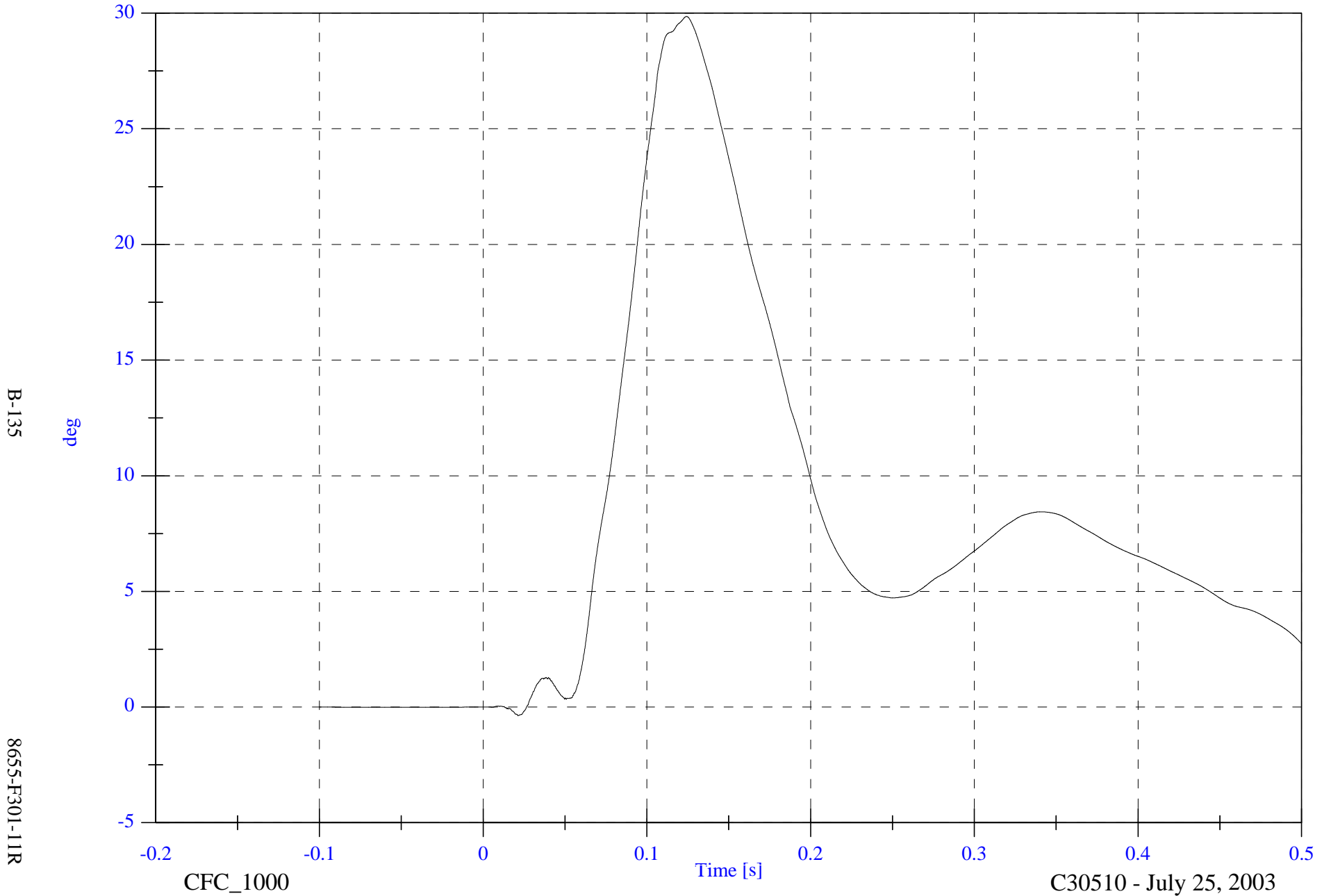
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

P1 Left Change in Seat Back Angle WRT Sill

Max: 29.9 [deg] at 0.124 [s]

Min: -0.4 [deg] at 0.021 [s]



B-135

8655-F301-11R

CFC\_1000

Time [s]

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

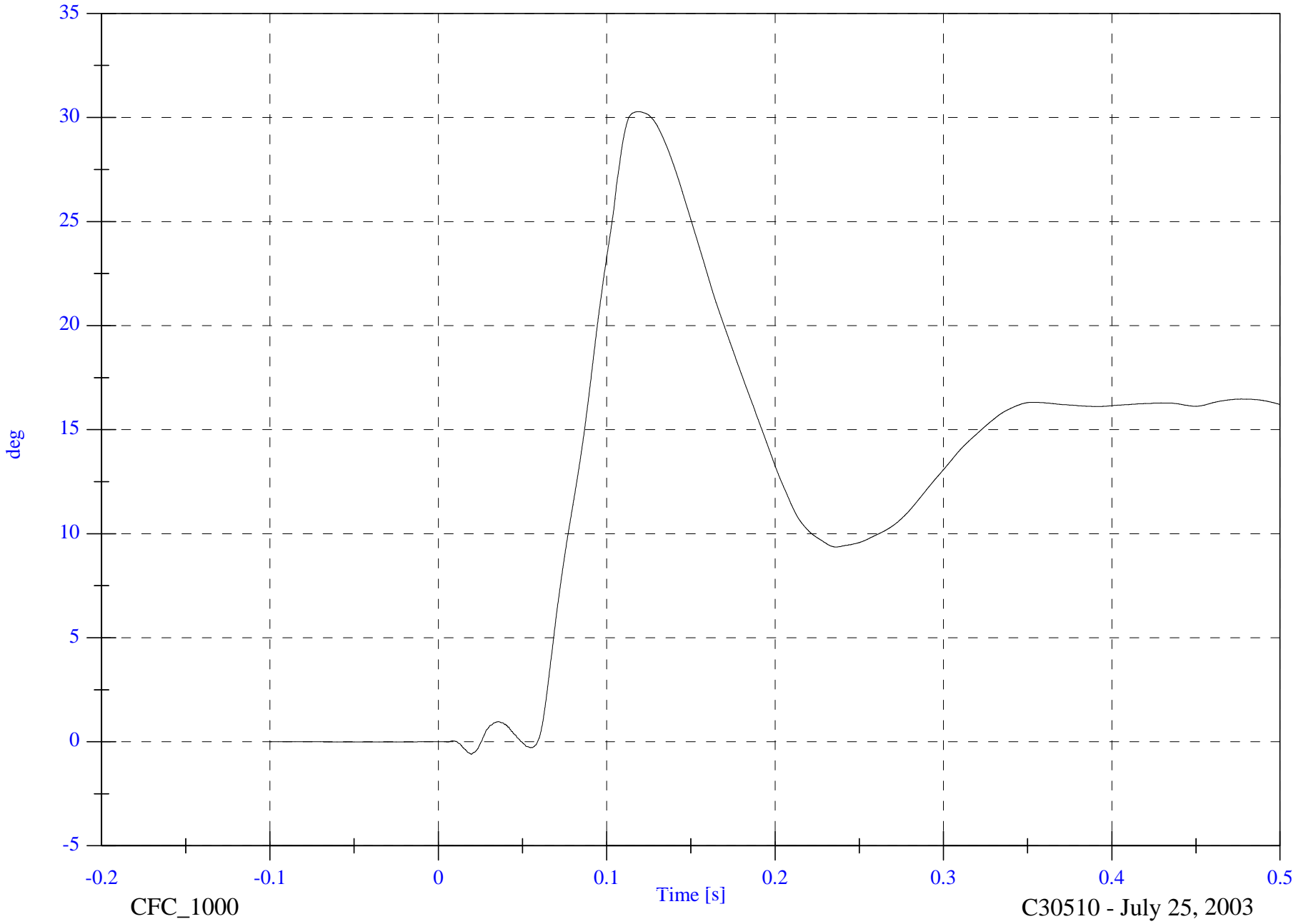
P1 Right Change in Seat Back Angle WRT Sill

Max: 30.3 [deg] at 0.119 [s]

Min: -0.6 [deg] at 0.020 [s]

B-136

8655-F301-11R



CFC\_1000

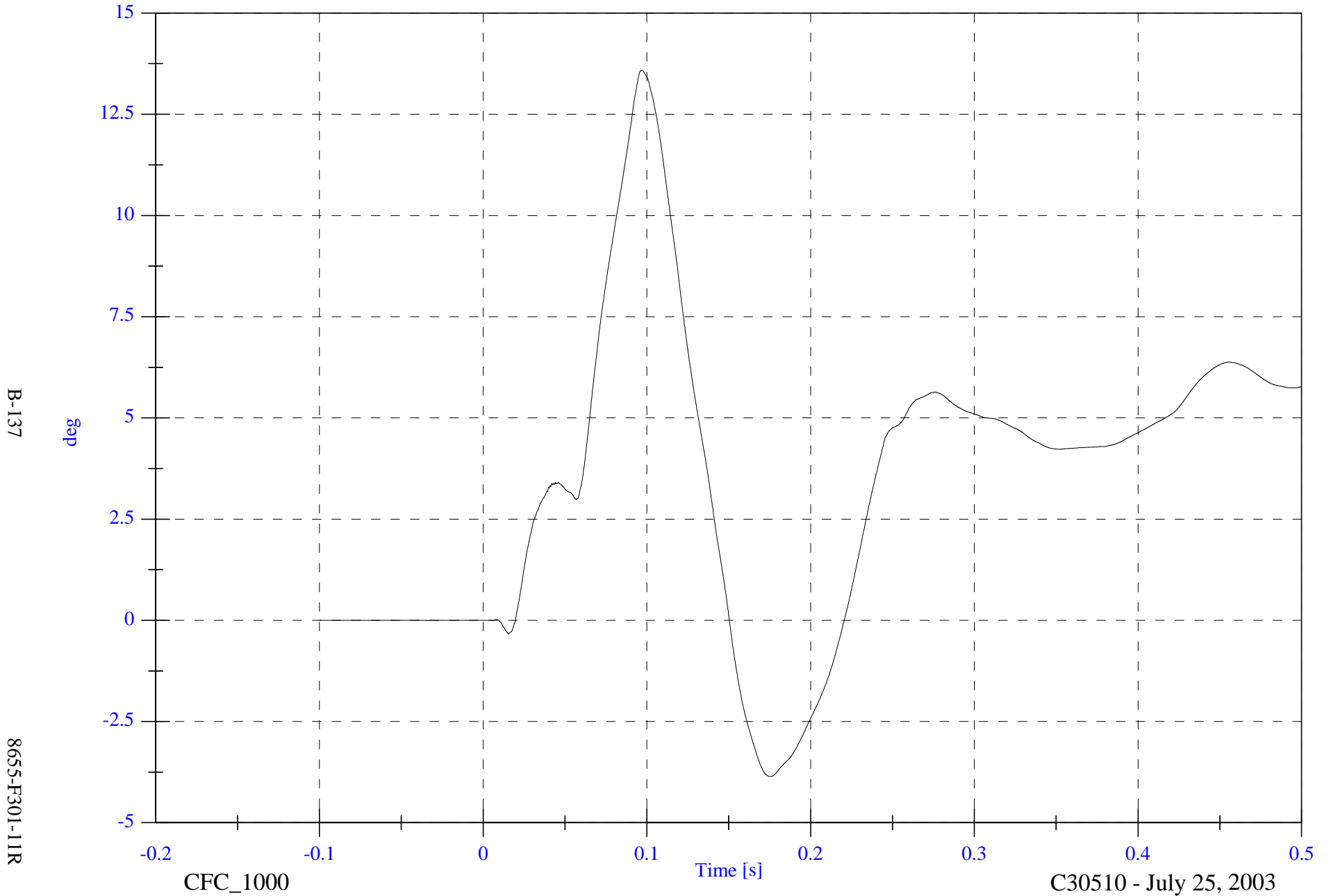
C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

P2 Left Change in Seat Back Angle WRT Sill

Max: 13.6 [deg] at 0.097 [s]

Min: -3.9 [deg] at 0.176 [s]



B-137

8655-F301-11R

CFC\_1000

C30510 - July 25, 2003

2003 FMVSS 301 Test 2 2003 Saab 9-3

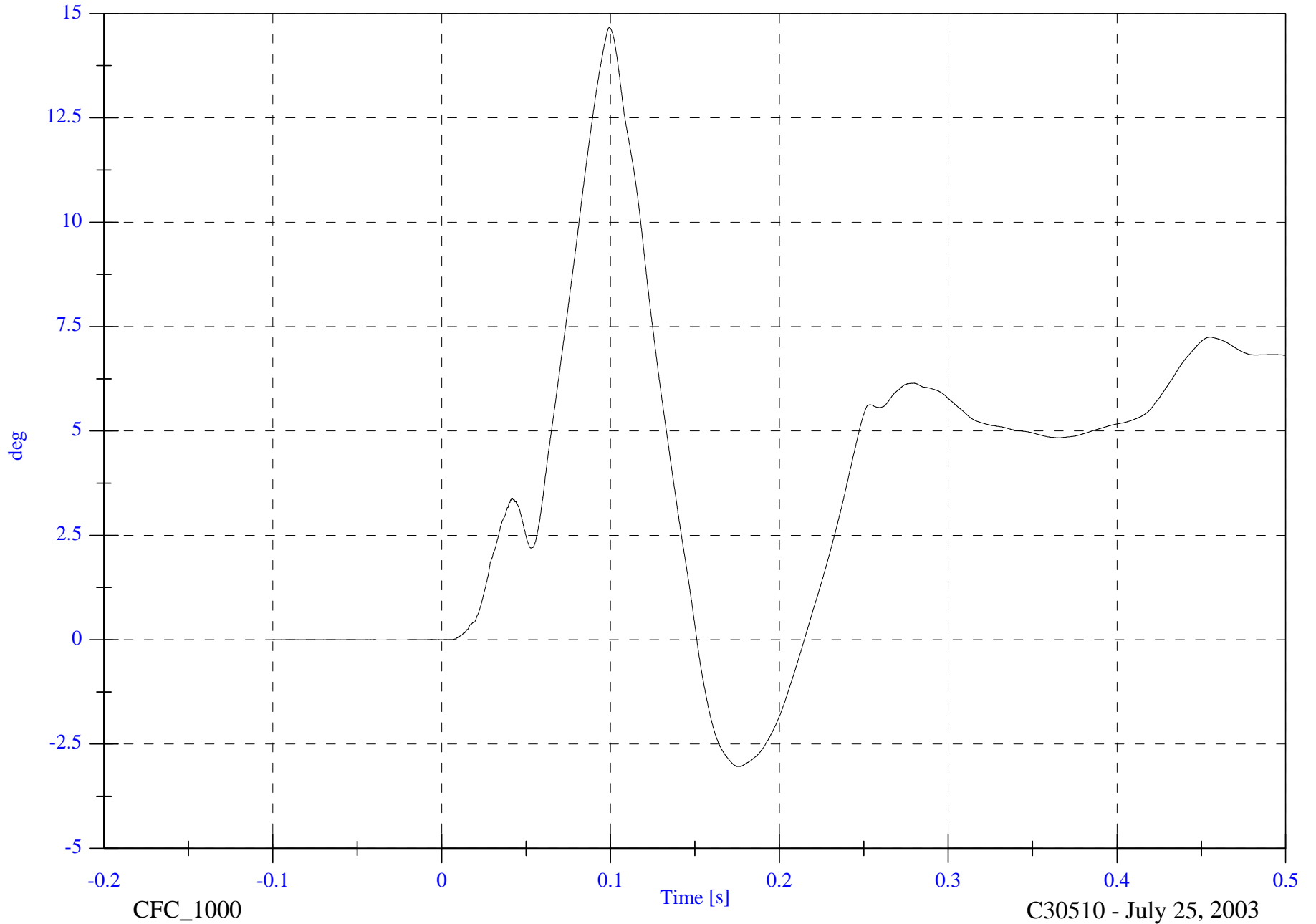
P2 Right Change in Seat Back Angle WRT Sill

Max: 14.7 [deg] at 0.099 [s]

Min: -3.0 [deg] at 0.176 [s]

B-138

8655-F301-11R



CFC\_1000

C30510 - July 25, 2003