

FMVSS301 Test 9 - 2004 Jeep Liberty

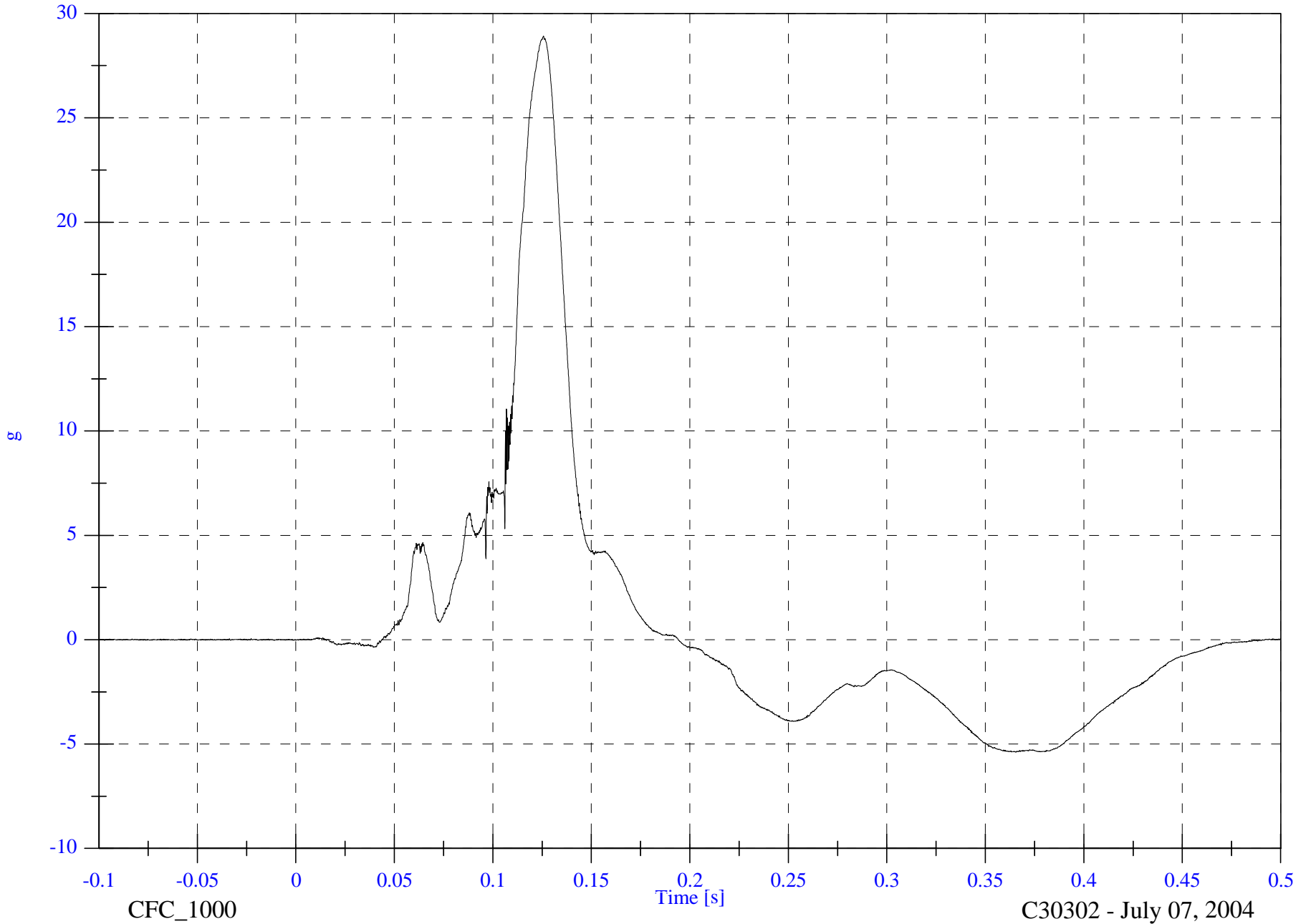
V2P1 Head x

Max: 28.9 [g] at 0.126 [s]

Min: -5.4 [g] at 0.366 [s]

B-11

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

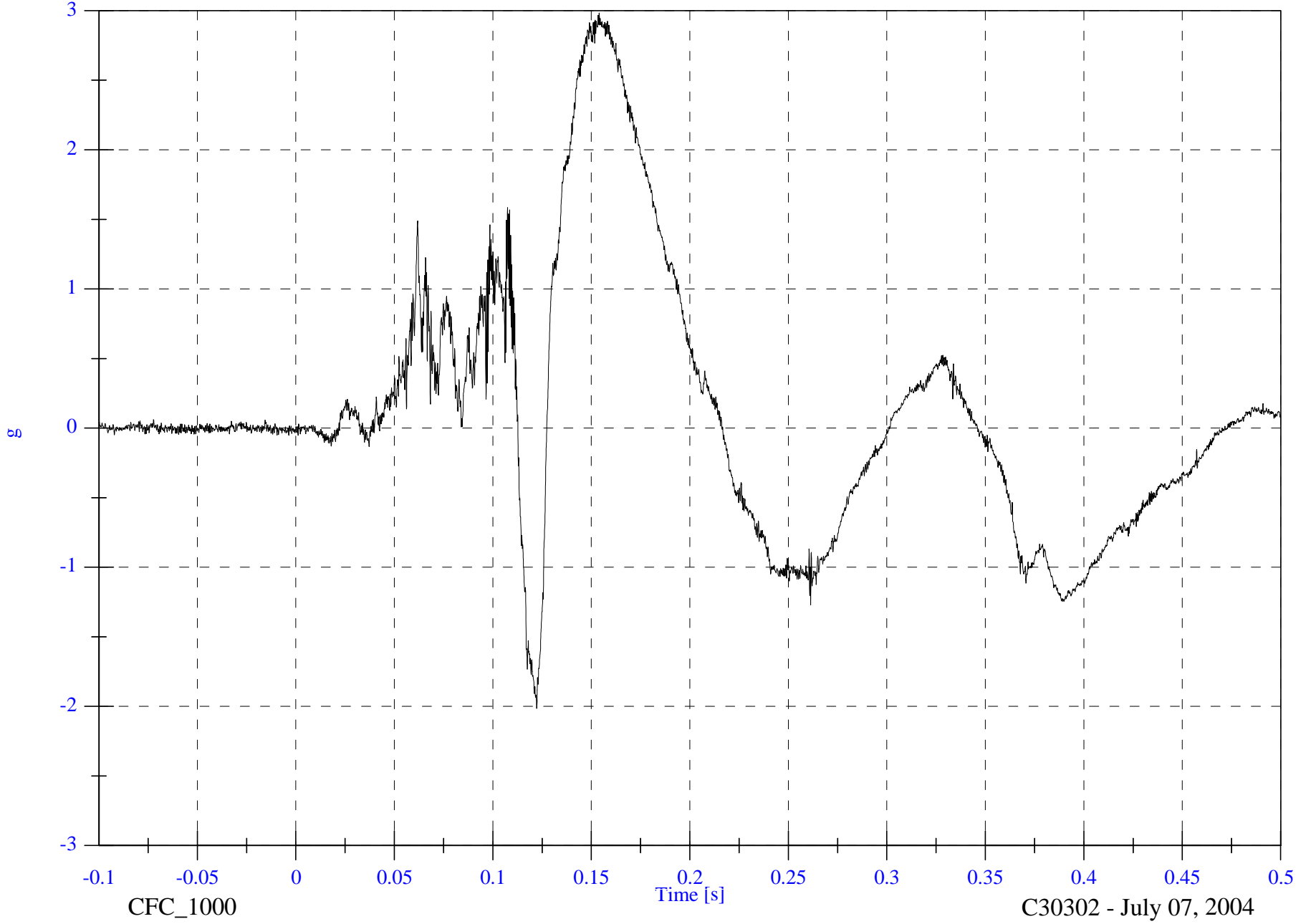
V2P1 Head y

Max: 3.0 [g] at 0.154 [s]

Min: -2.0 [g] at 0.122 [s]

B-12

8655-F301-23R



CFC_1000

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

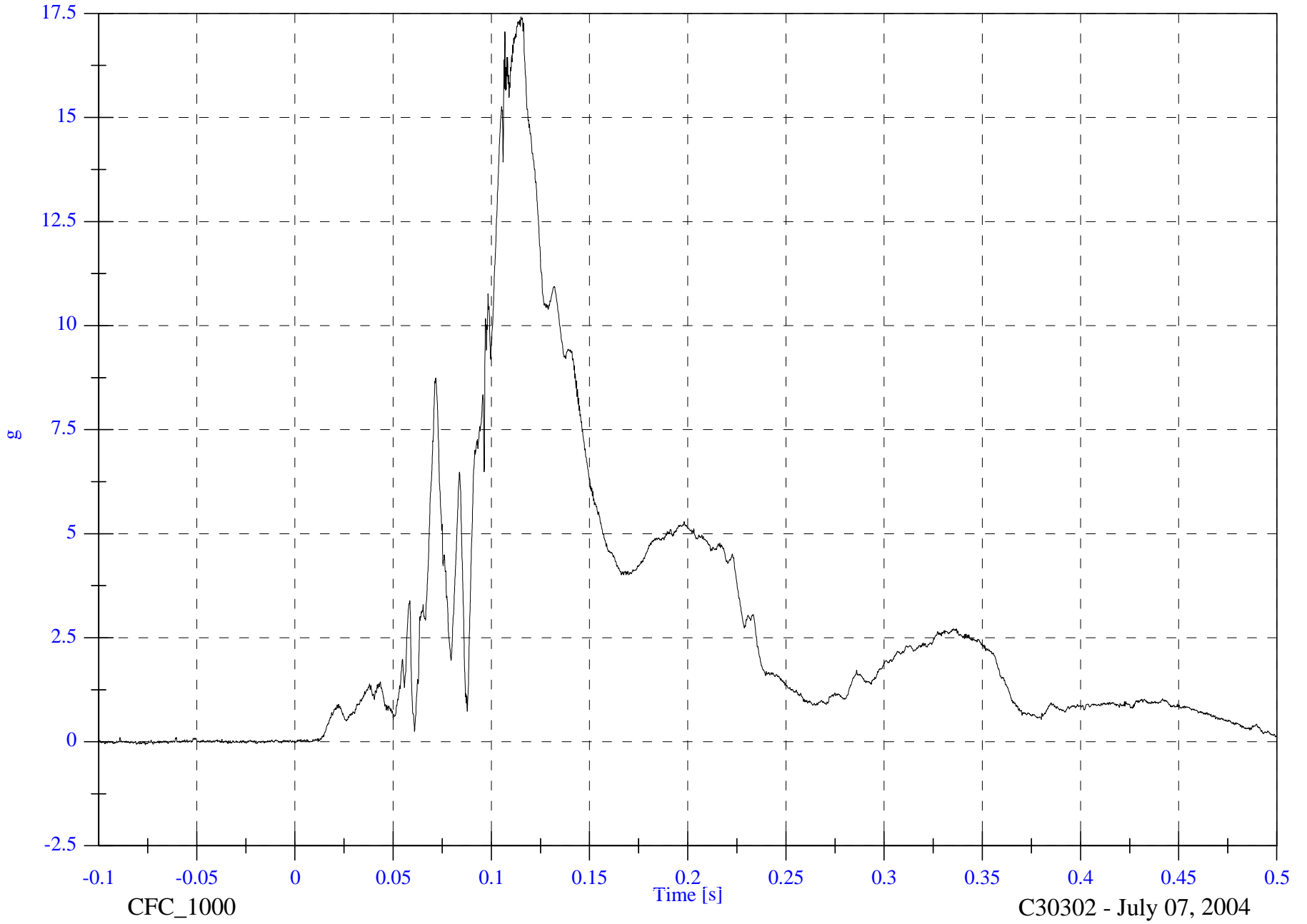
V2P1 Head z

Max: 17.4 [g] at 0.115 [s]

Min: -0.1 [g] at -0.076 [s]

B-13

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

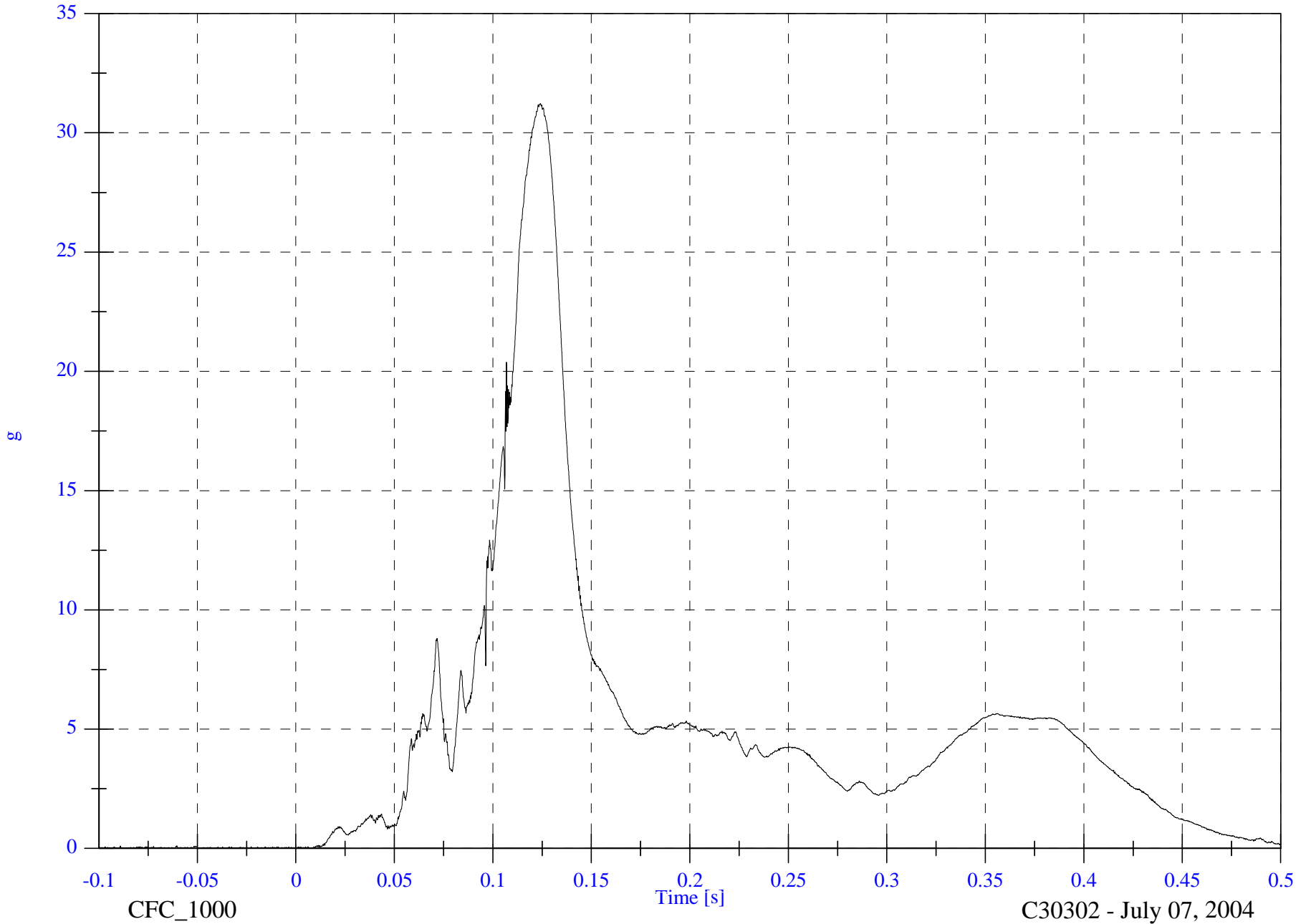
V2P1 Head Resultant

Max: 31.2 [g] at 0.124 [s]

Min: 0.0 [g] at -0.087 [s]

B-14

8655-F301-23R

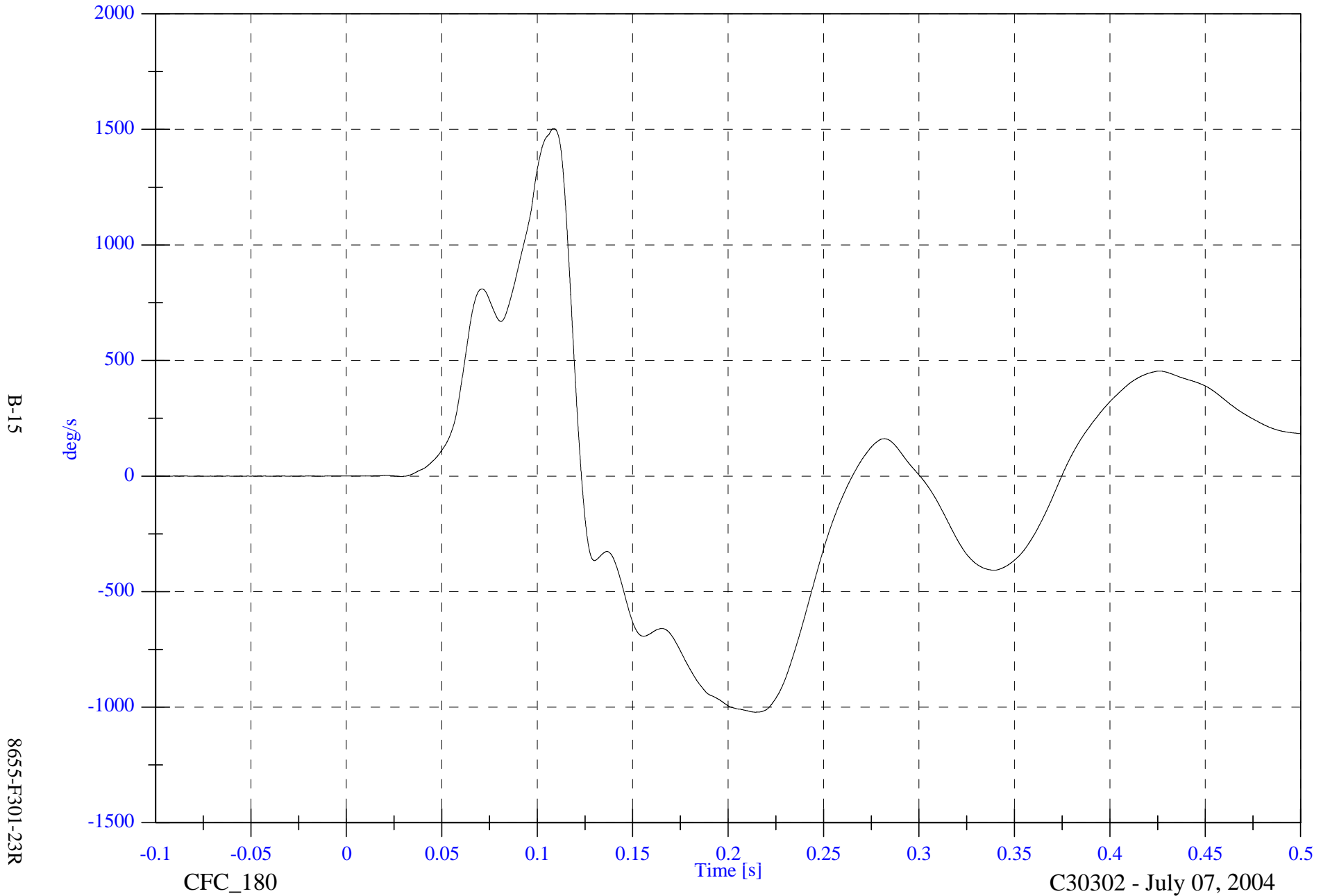


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Head AVy

Max: 1503.7 [deg/s] at 0.109 [s]

Min: -1021.4 [deg/s] at 0.214 [s]



B-15

8655-F301-23R

CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

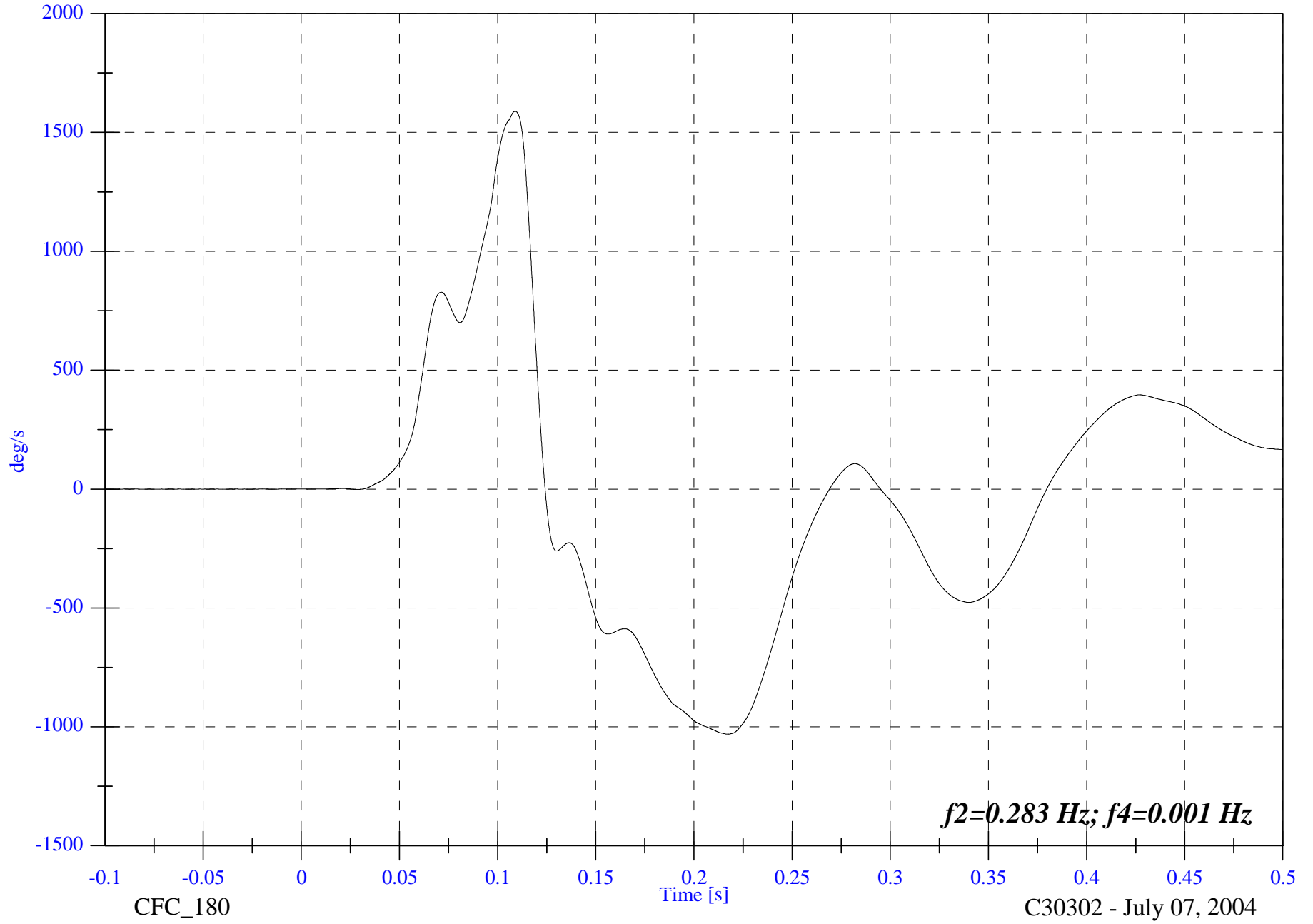
V2P1 Head Comp AVy

Max: 1588.7 [deg/s] at 0.109 [s]

Min: -1030.6 [deg/s] at 0.217 [s]

B-16

8655-F301-23R



$f_2=0.283$ Hz; $f_4=0.001$ Hz

CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

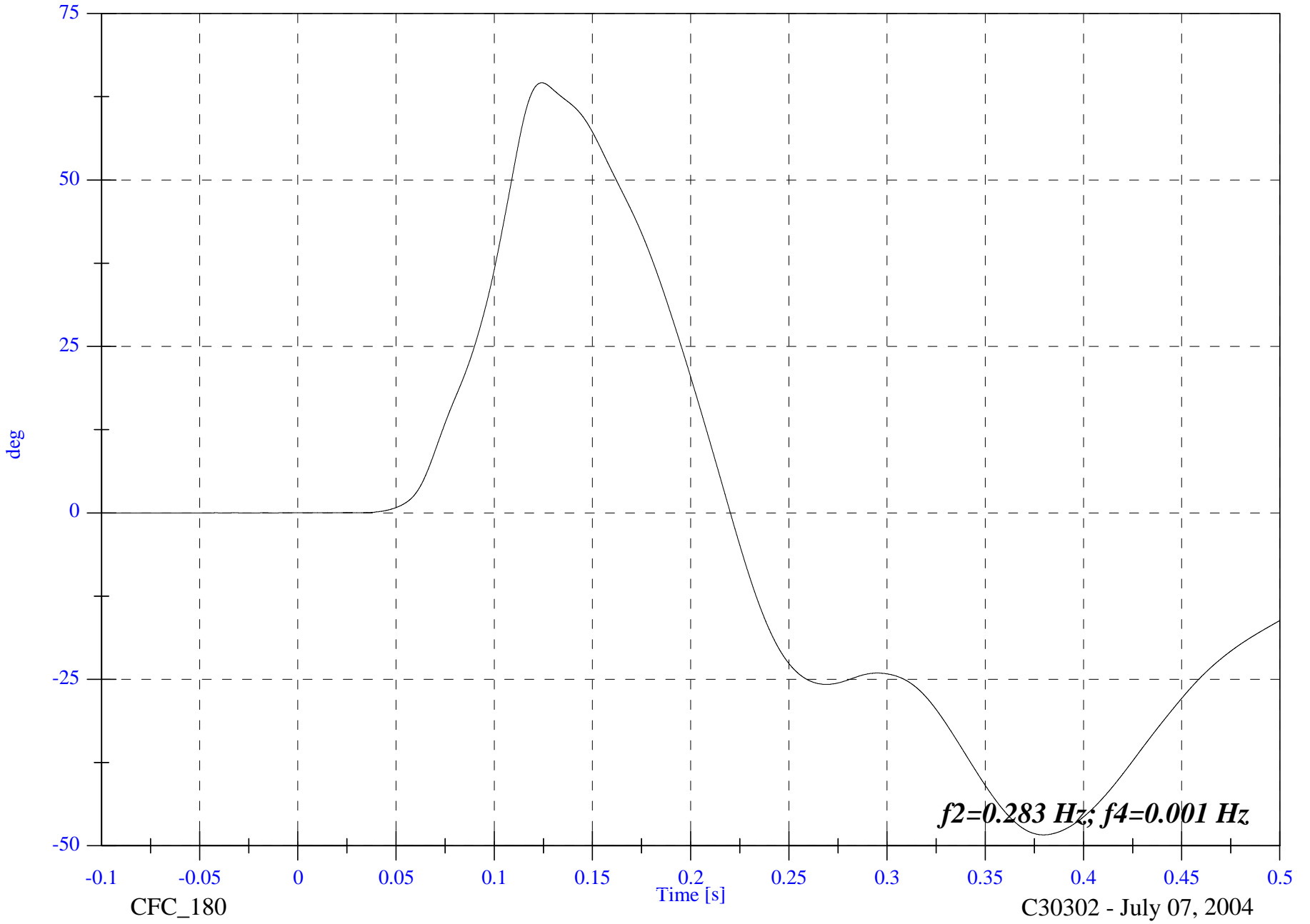
V2P1 Head Comp ADy

Max: 64.6 [deg] at 0.124 [s]

Min: -48.4 [deg] at 0.380 [s]

B-17

8655-F301-23R



CFC_180

Time [s]

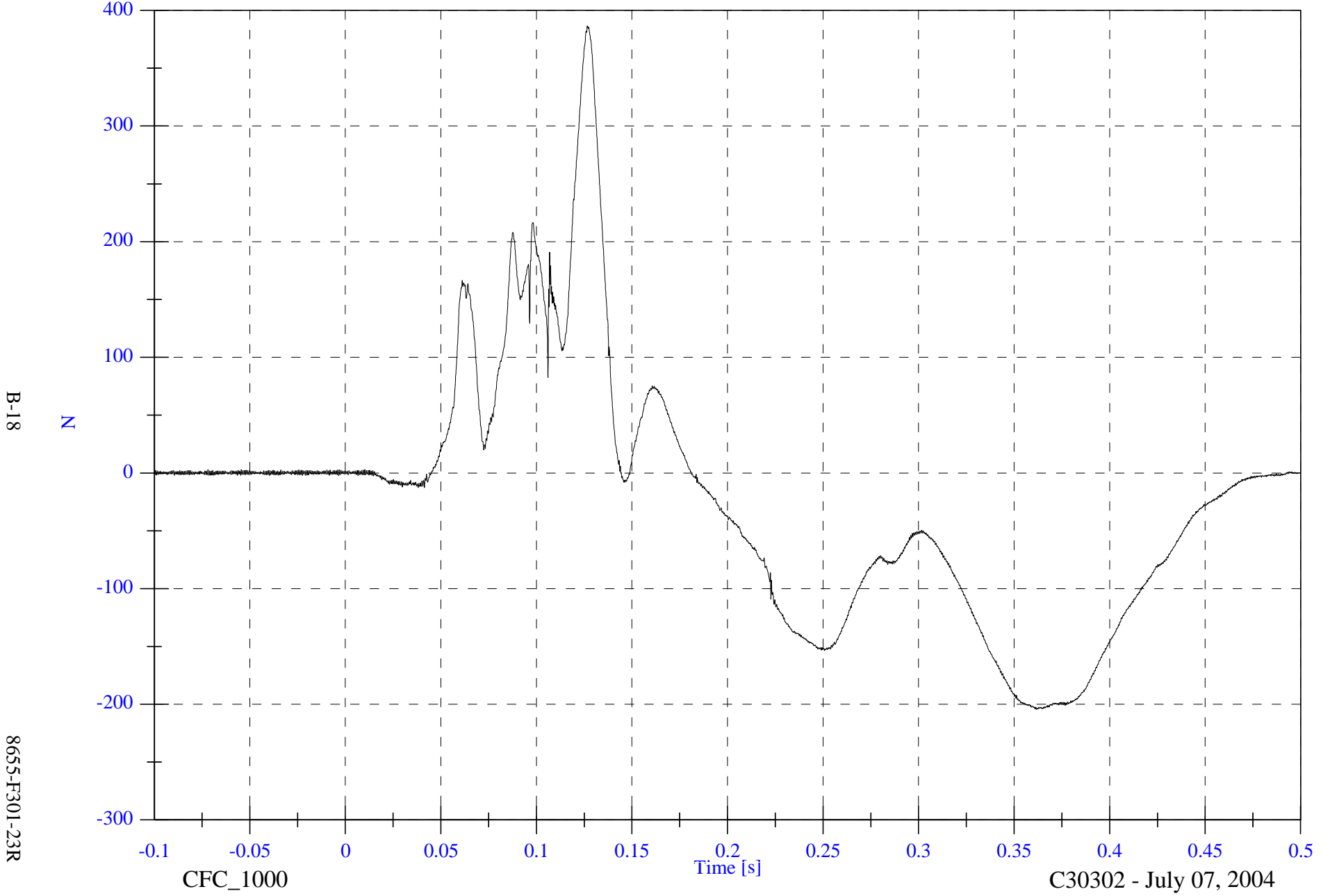
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Upper Neck Fx

Max: 386.5 [N] at 0.127 [s]

Min: -204.4 [N] at 0.362 [s]

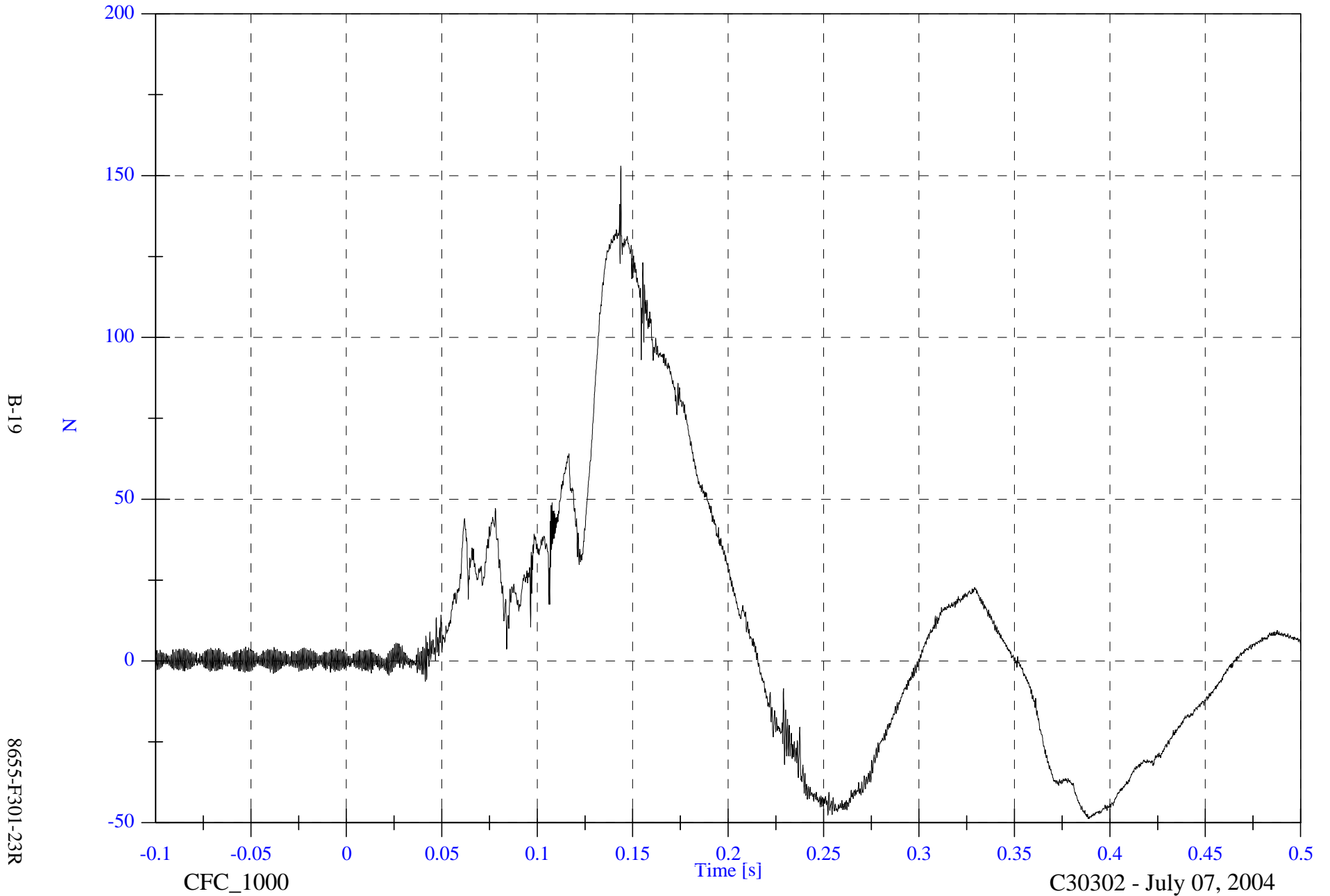


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Upper Neck Fy

Max: 153.0 [N] at 0.144 [s]

Min: -48.8 [N] at 0.389 [s]

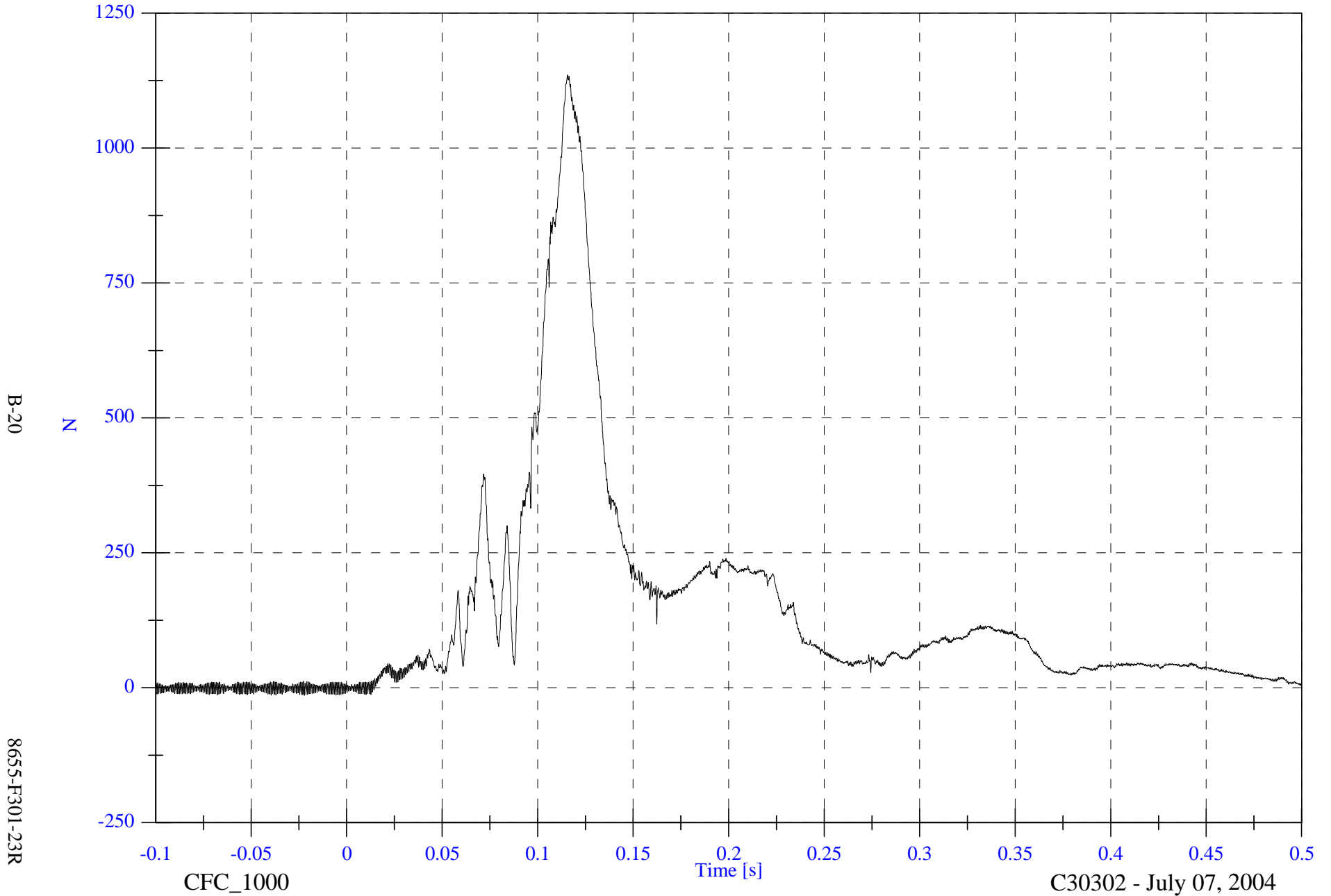


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Upper Neck Fz

Max: 1135.5 [N] at 0.116 [s]

Min: -14.2 [N] at -0.022 [s]



FMVSS301 Test 9 - 2004 Jeep Liberty

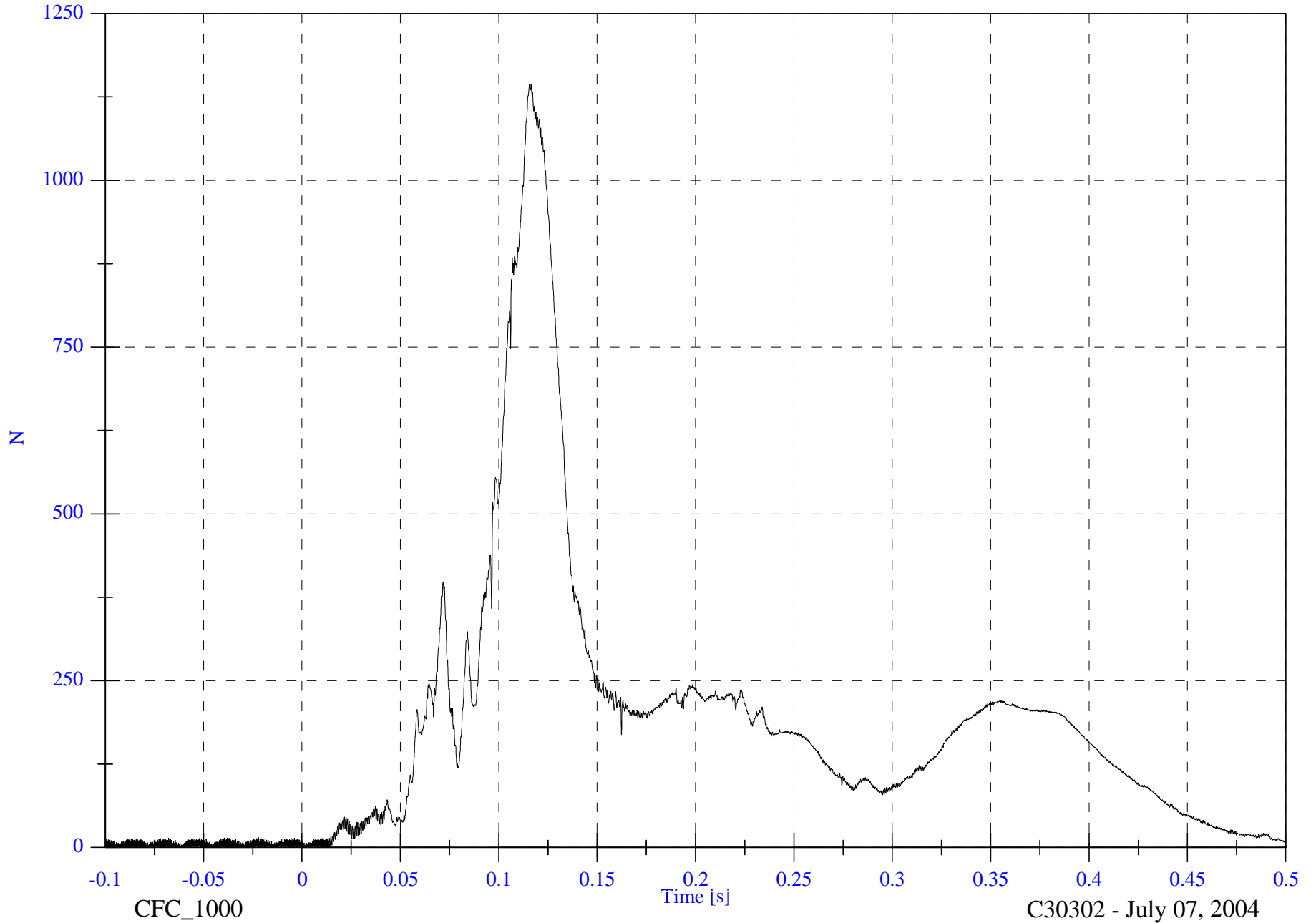
V2P1 Upper Neck F Resultant

Max: 1143.6 [N] at 0.116 [s]

Min: 0.1 [N] at -0.047 [s]

B-21

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

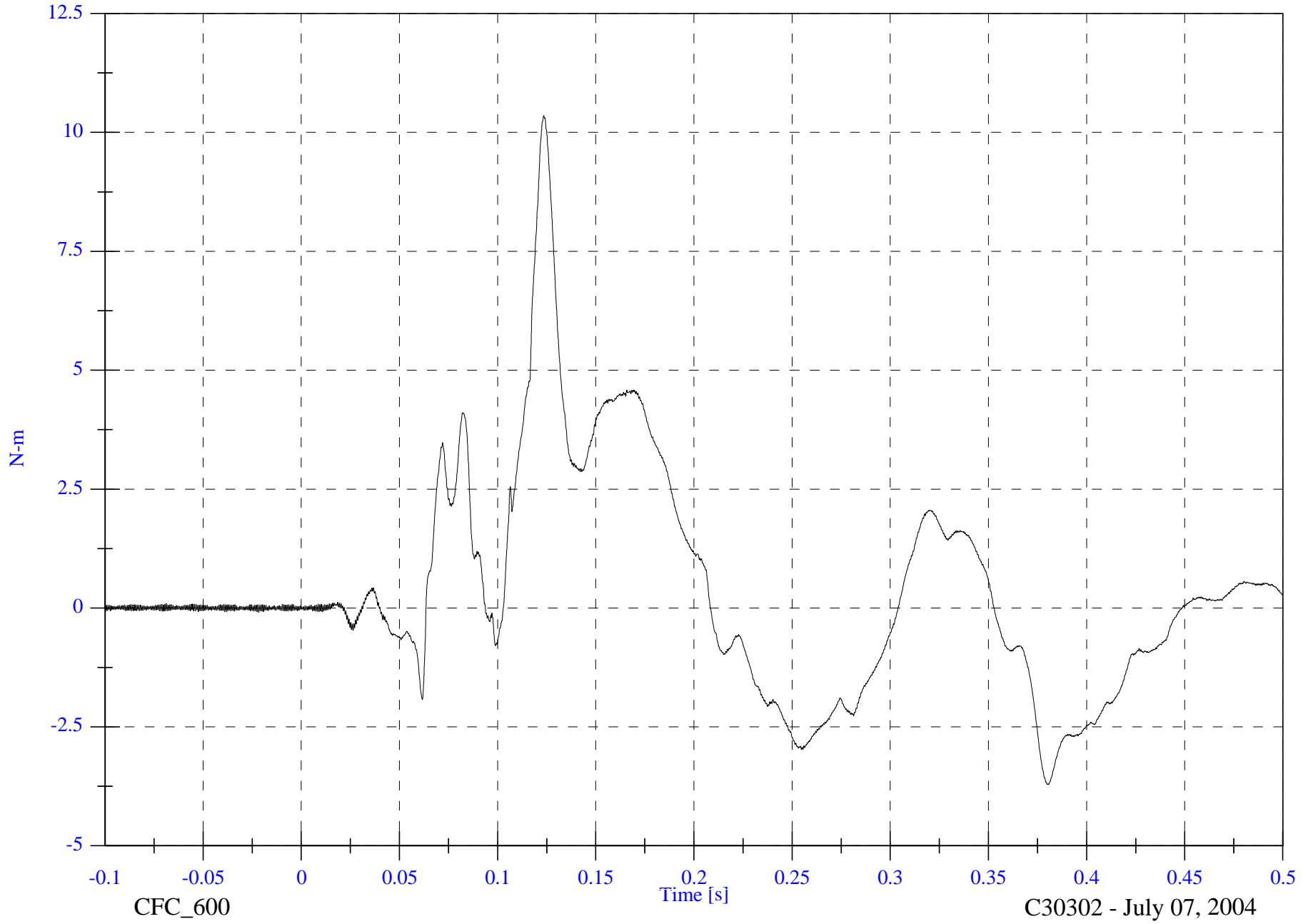
V2P1 Upper Neck Mx

Max: 10.4 [N-m] at 0.123 [s]

Min: -3.7 [N-m] at 0.380 [s]

B-22

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

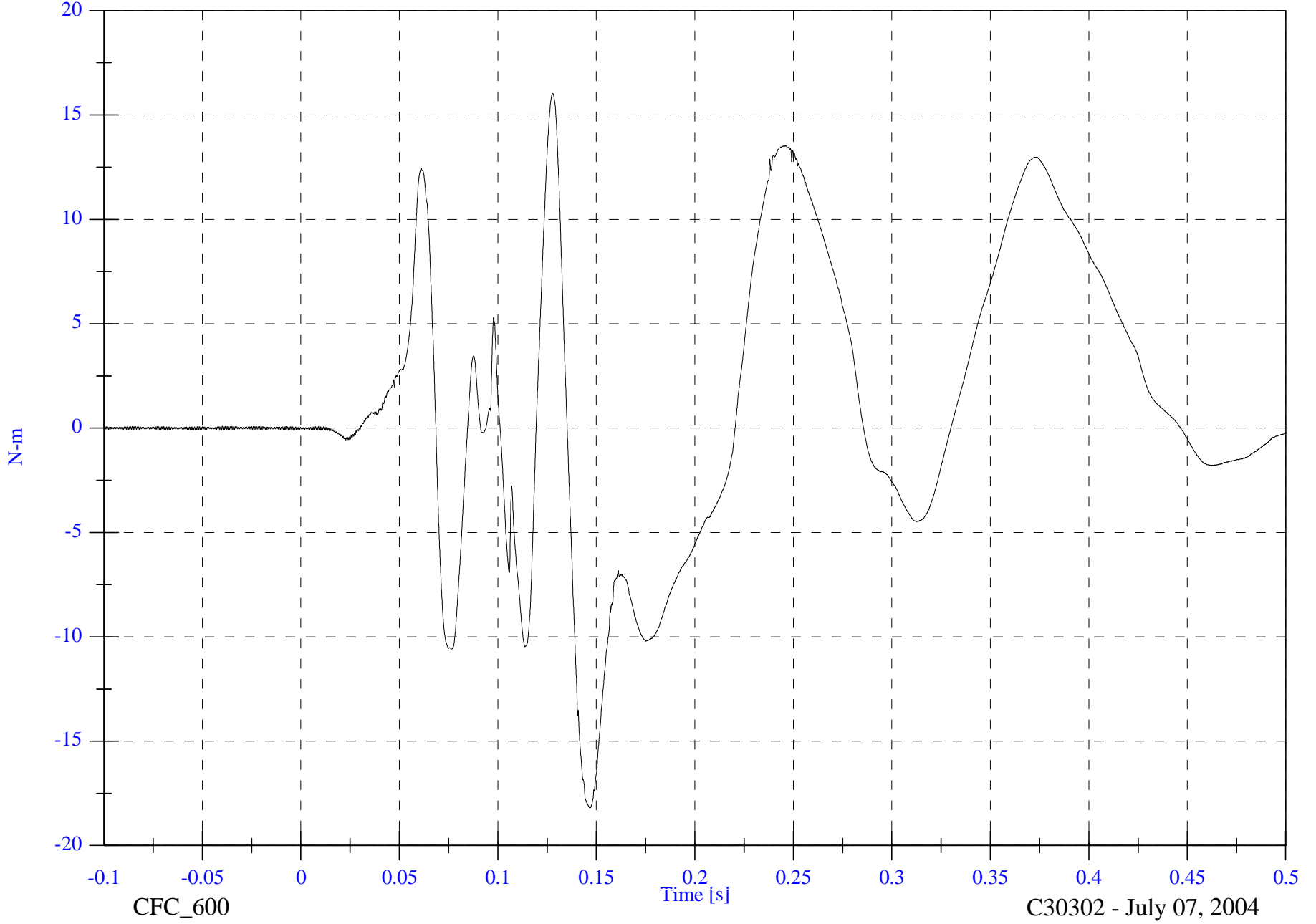
V2P1 Upper Neck My

Max: 16.0 [N-m] at 0.128 [s]

Min: -18.2 [N-m] at 0.147 [s]

B-23

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

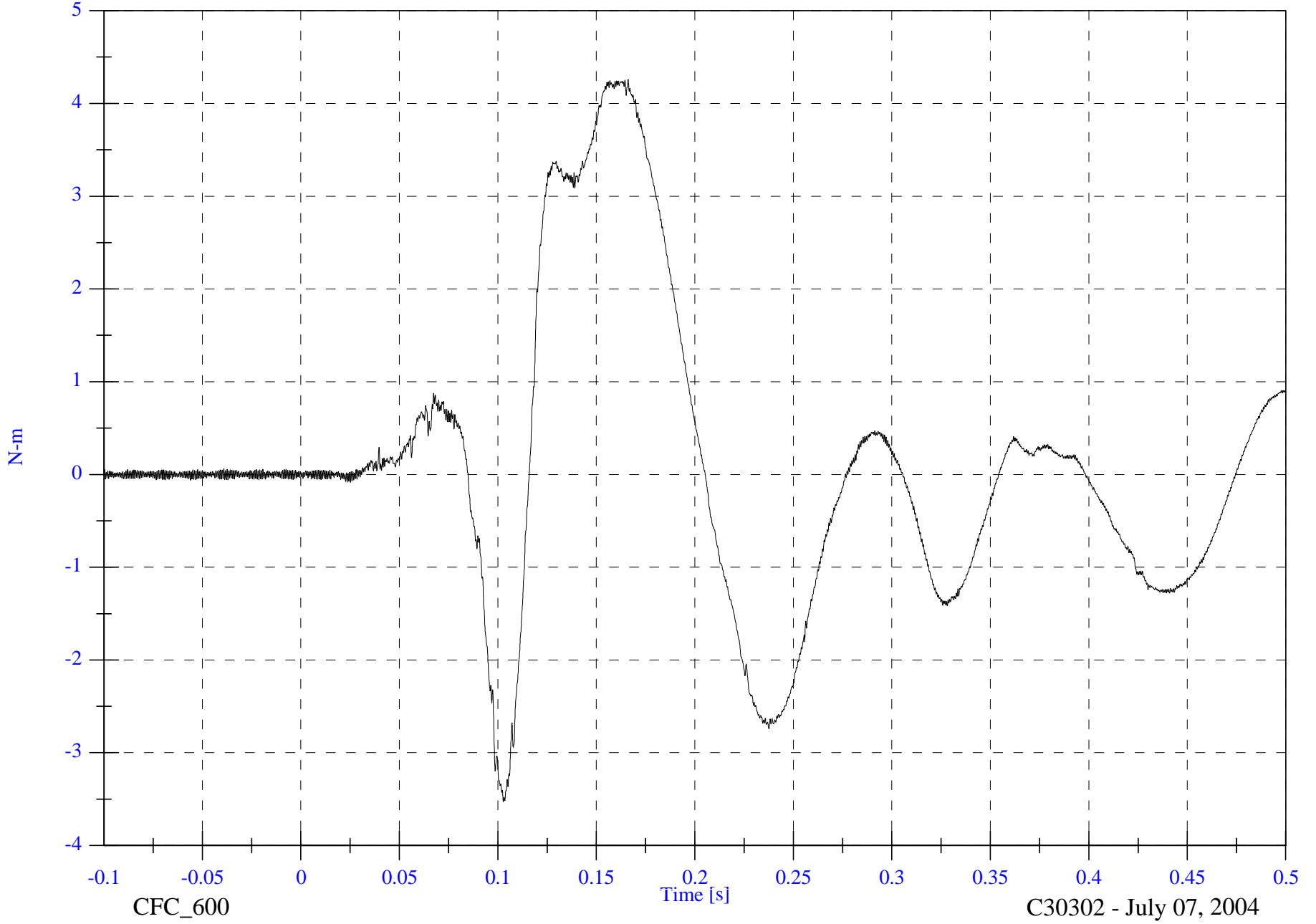
V2P1 Upper Neck Mz

Max: 4.3 [N-m] at 0.166 [s]

Min: -3.5 [N-m] at 0.103 [s]

B-24

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

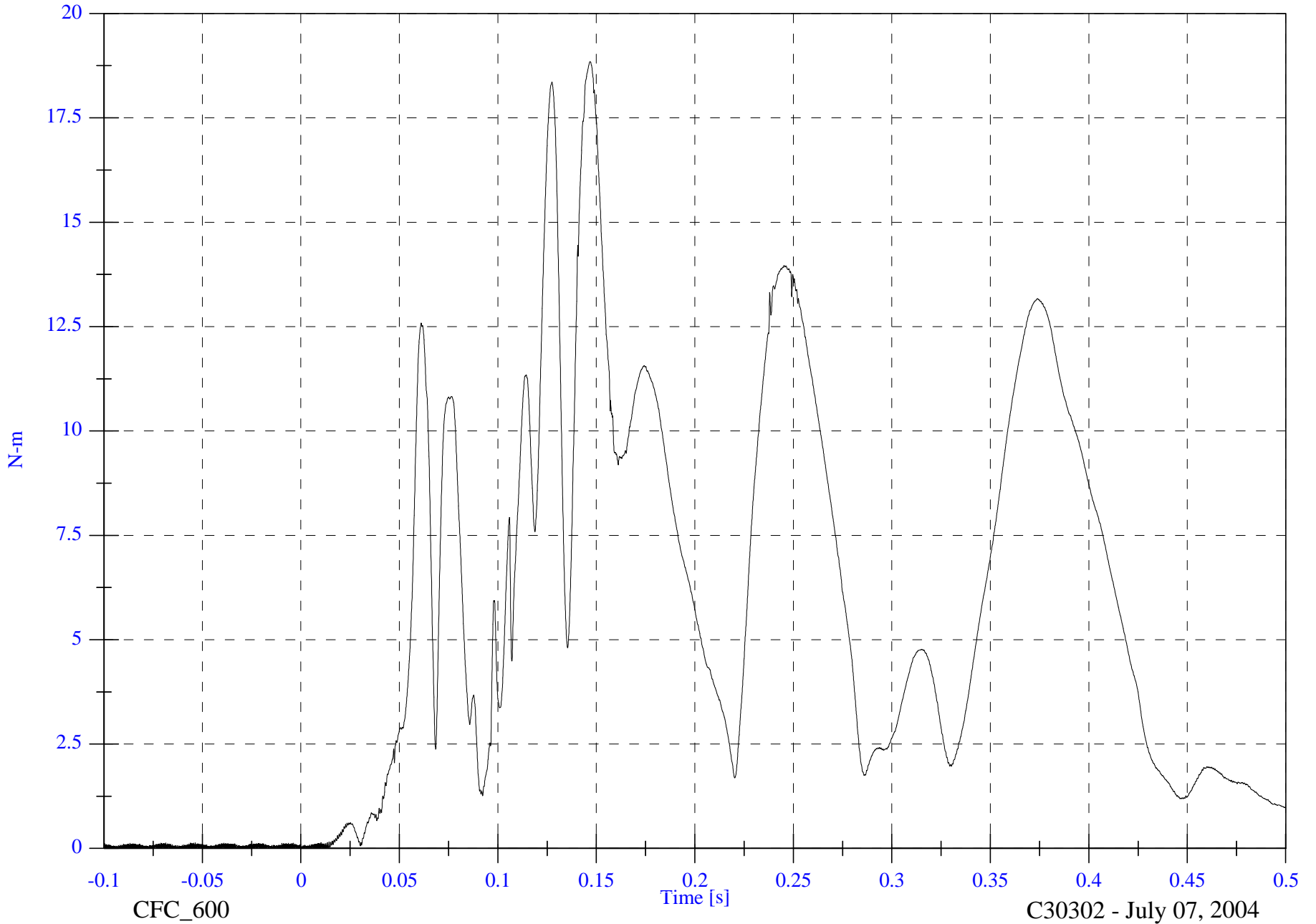
V2P1 Upper Neck M Resultant

Max: 18.8 [N-m] at 0.147 [s]

Min: 0.0 [N-m] at -0.006 [s]

B-25

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

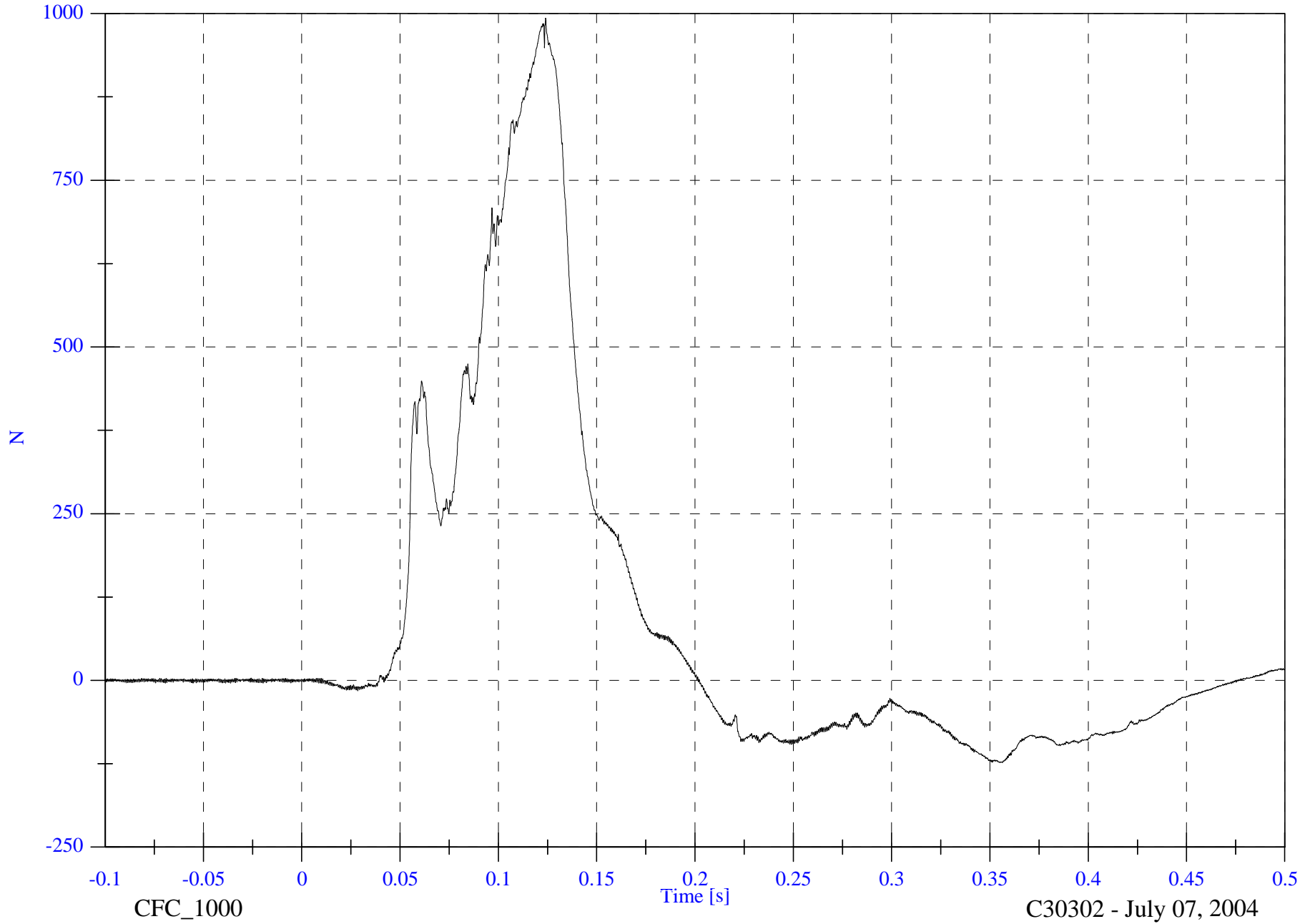
V2P1 Lower Neck Fx

Max: 993.1 [N] at 0.124 [s]

Min: -123.4 [N] at 0.356 [s]

B-26

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

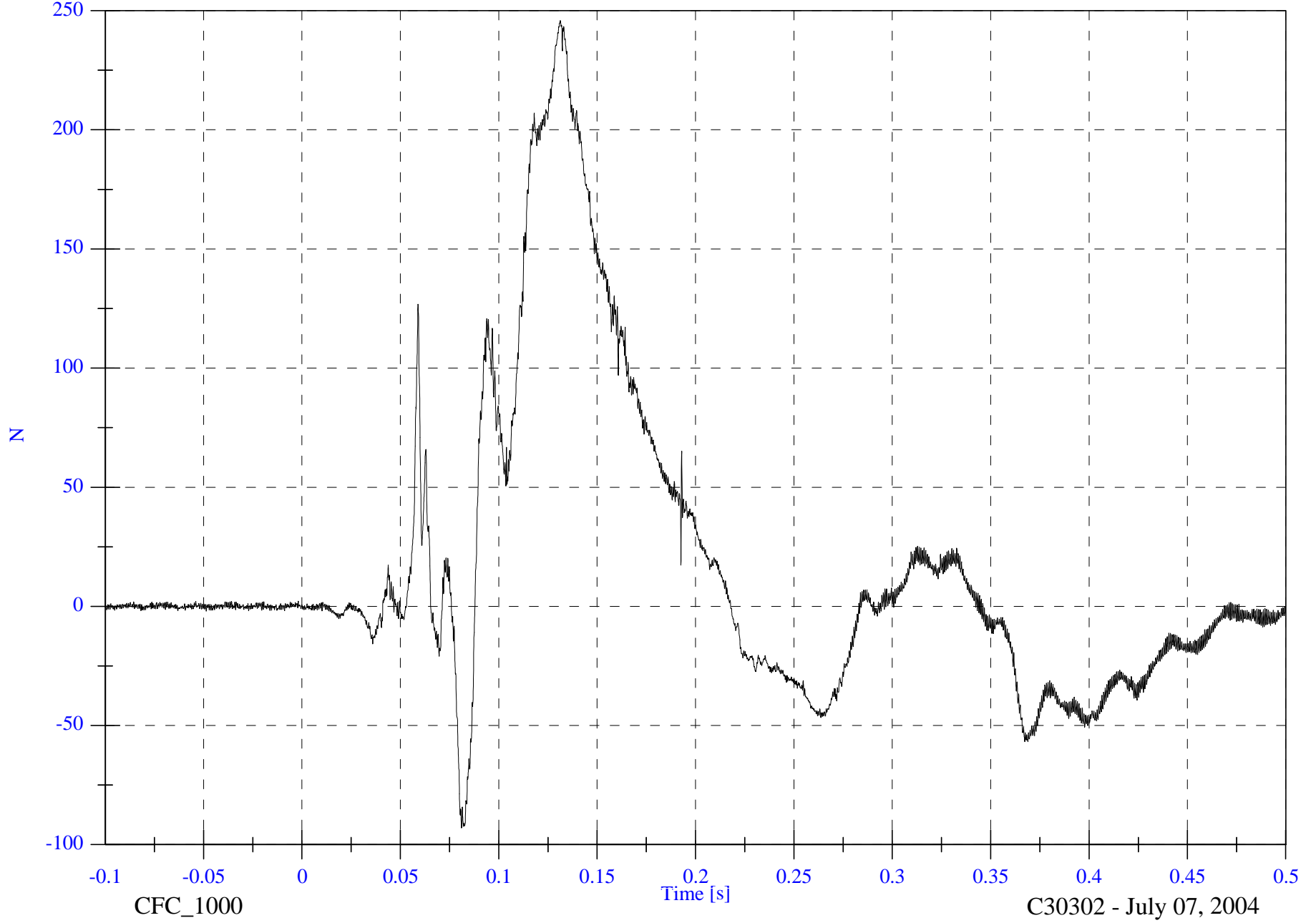
V2P1 Lower Neck Fy

Max: 245.8 [N] at 0.131 [s]

Min: -93.0 [N] at 0.081 [s]

B-27

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

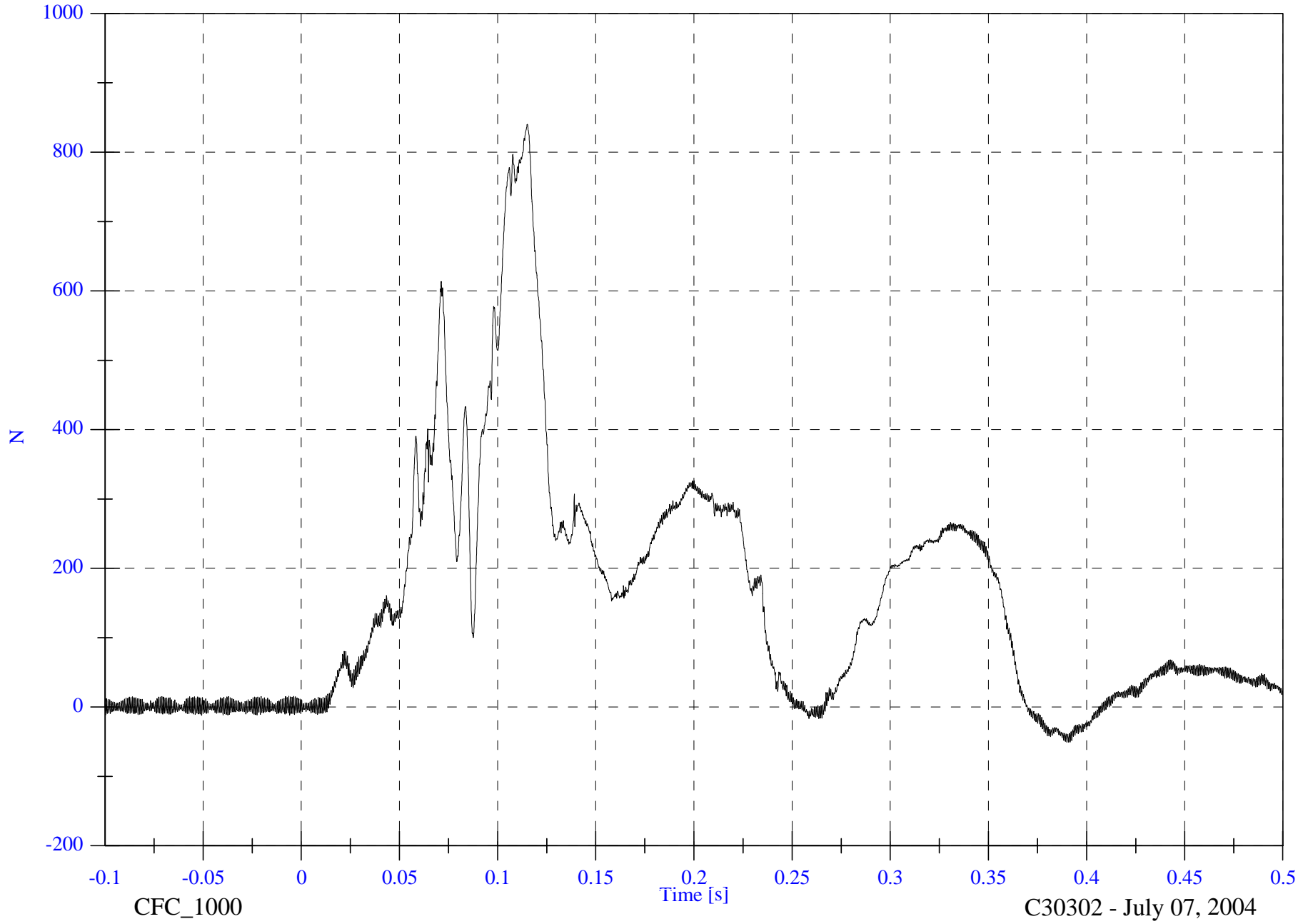
Max: 840.2 [N] at 0.115 [s]

V2P1 Lower Neck Fz

Min: -50.8 [N] at 0.391 [s]

B-28

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

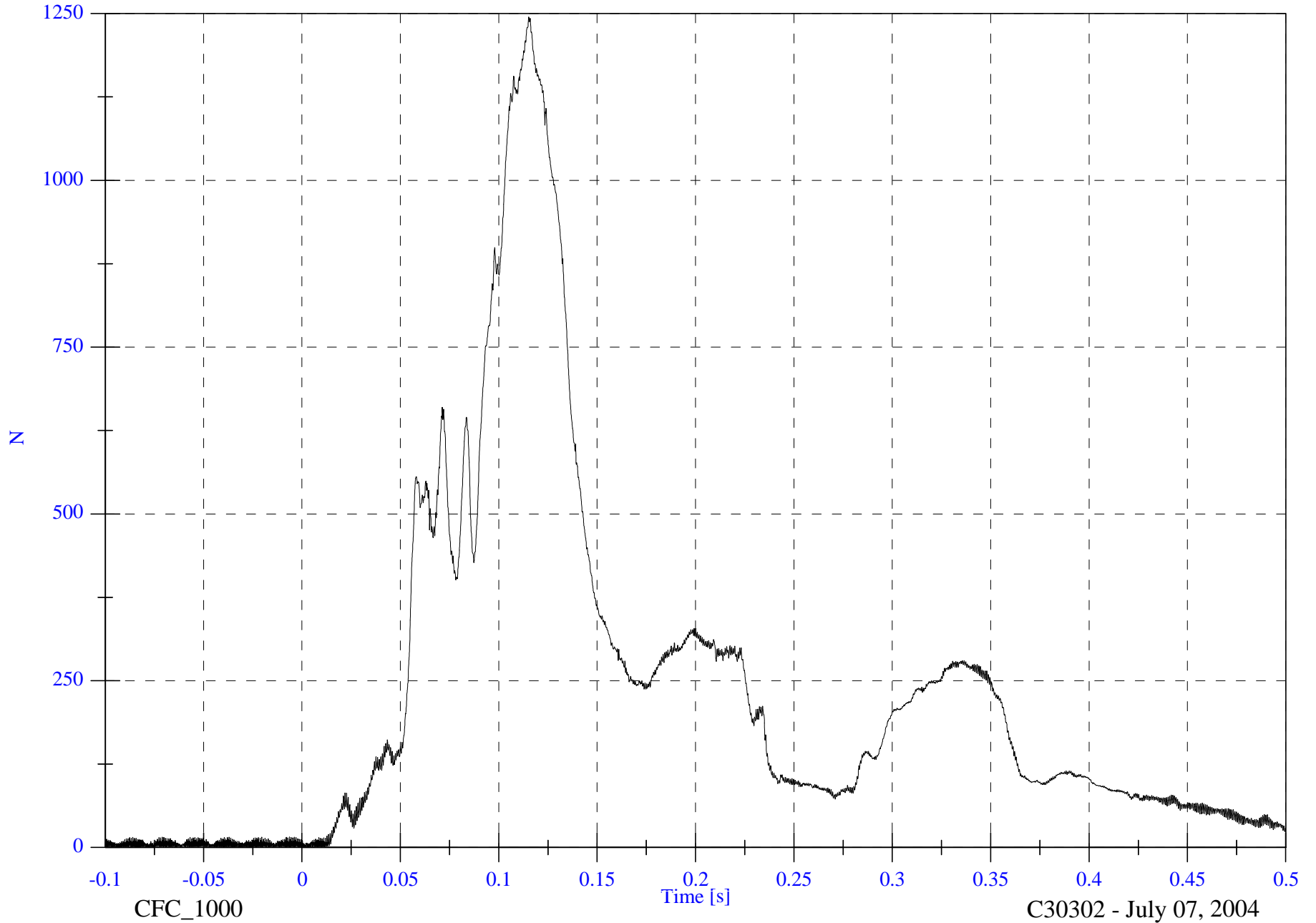
V2P1 Lower Neck F Resultant

Max: 1244.8 [N] at 0.115 [s]

Min: 0.2 [N] at -0.093 [s]

B-29

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

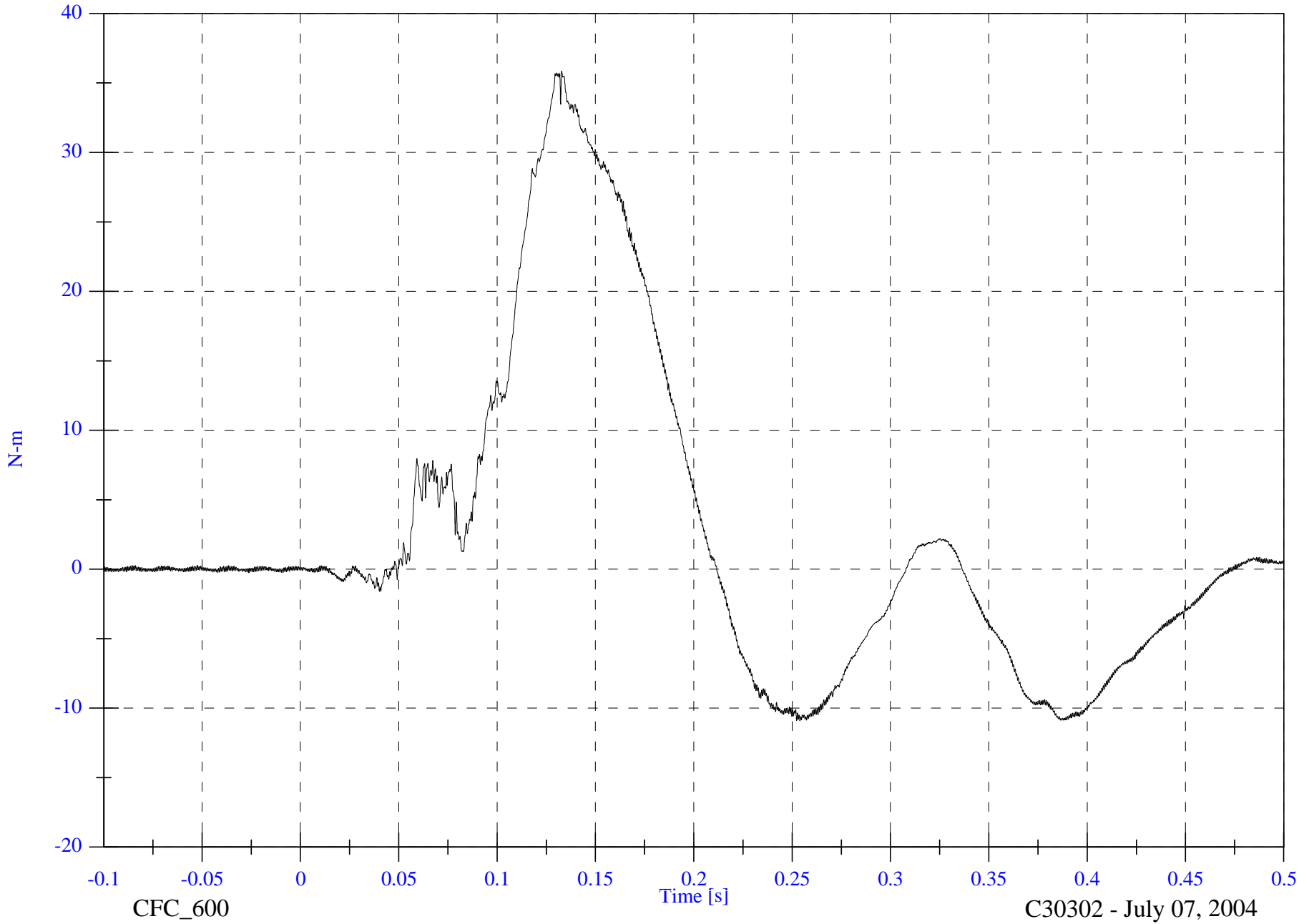
V2P1 Lower Neck Mx

Max: 35.9 [N-m] at 0.133 [s]

Min: -10.9 [N-m] at 0.254 [s]

B-30

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

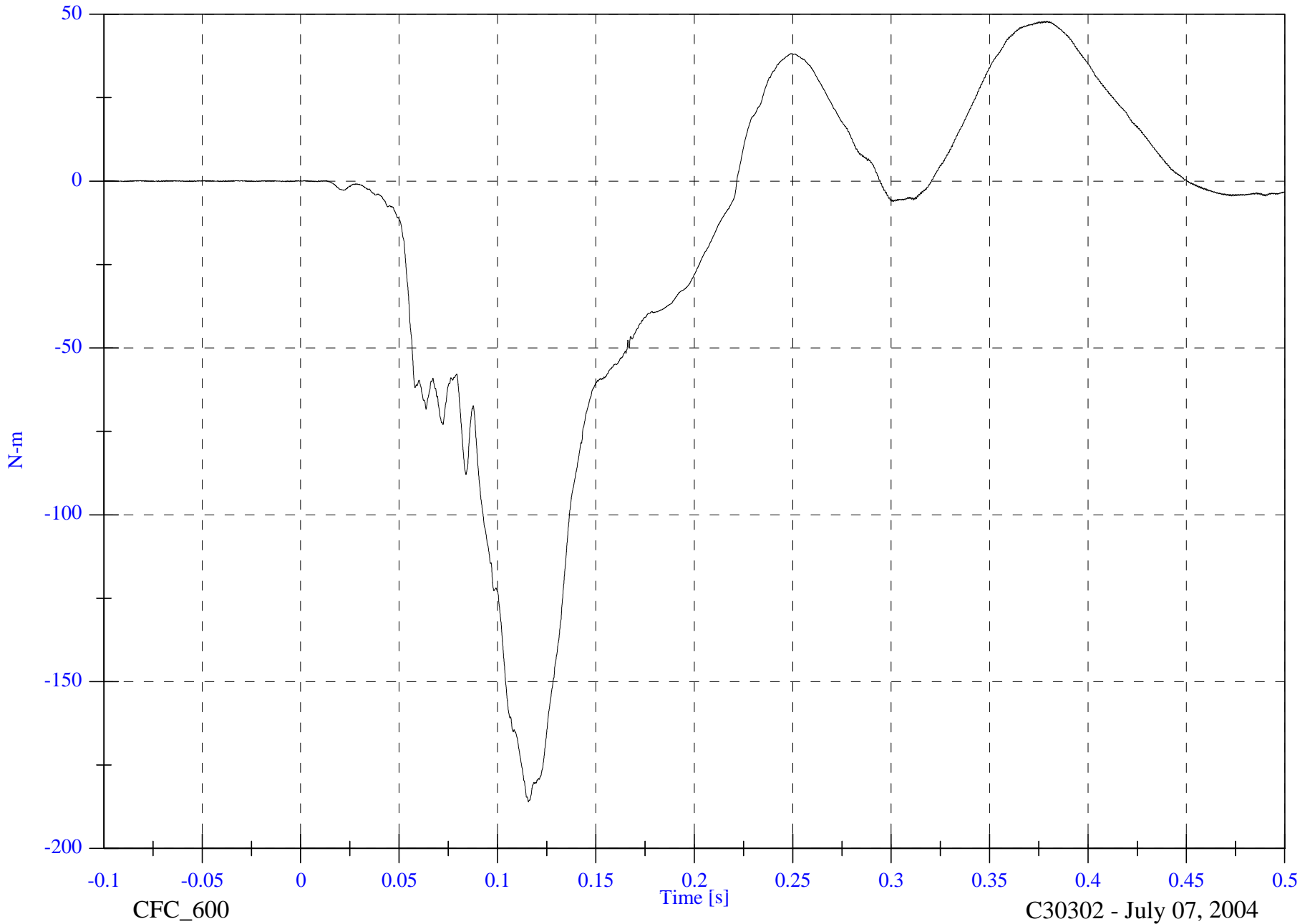
V2P1 Lower Neck My

Max: 48.0 [N-m] at 0.379 [s]

Min: -186.0 [N-m] at 0.116 [s]

B-31

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

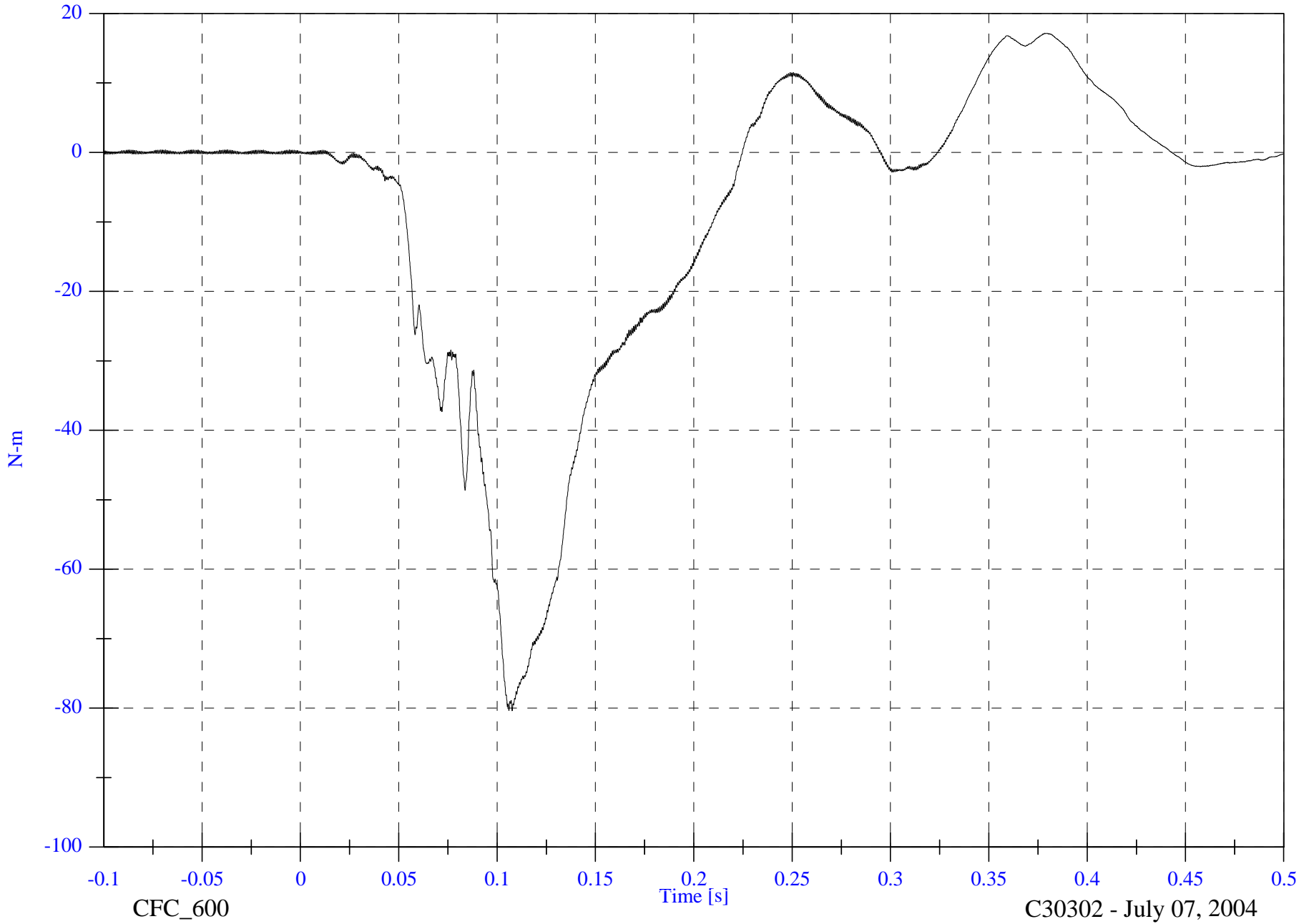
V2P1 Lower Neck Mz

Max: 17.2 [N-m] at 0.378 [s]

Min: -80.4 [N-m] at 0.108 [s]

B-32

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

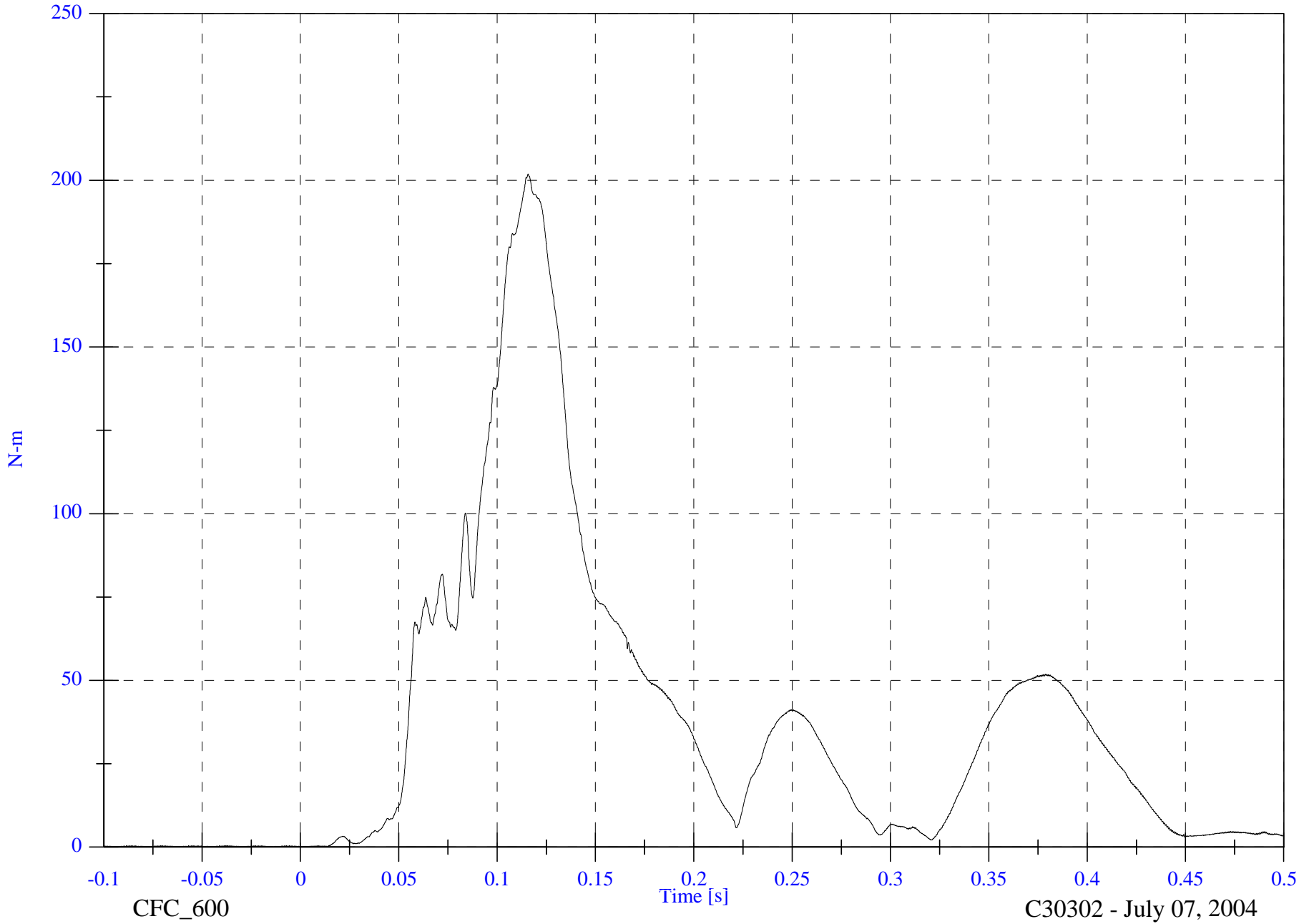
V2P1 Lower Neck M Resultant

Max: 201.9 [N-m] at 0.116 [s]

Min: 0.0 [N-m] at -0.015 [s]

B-33

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

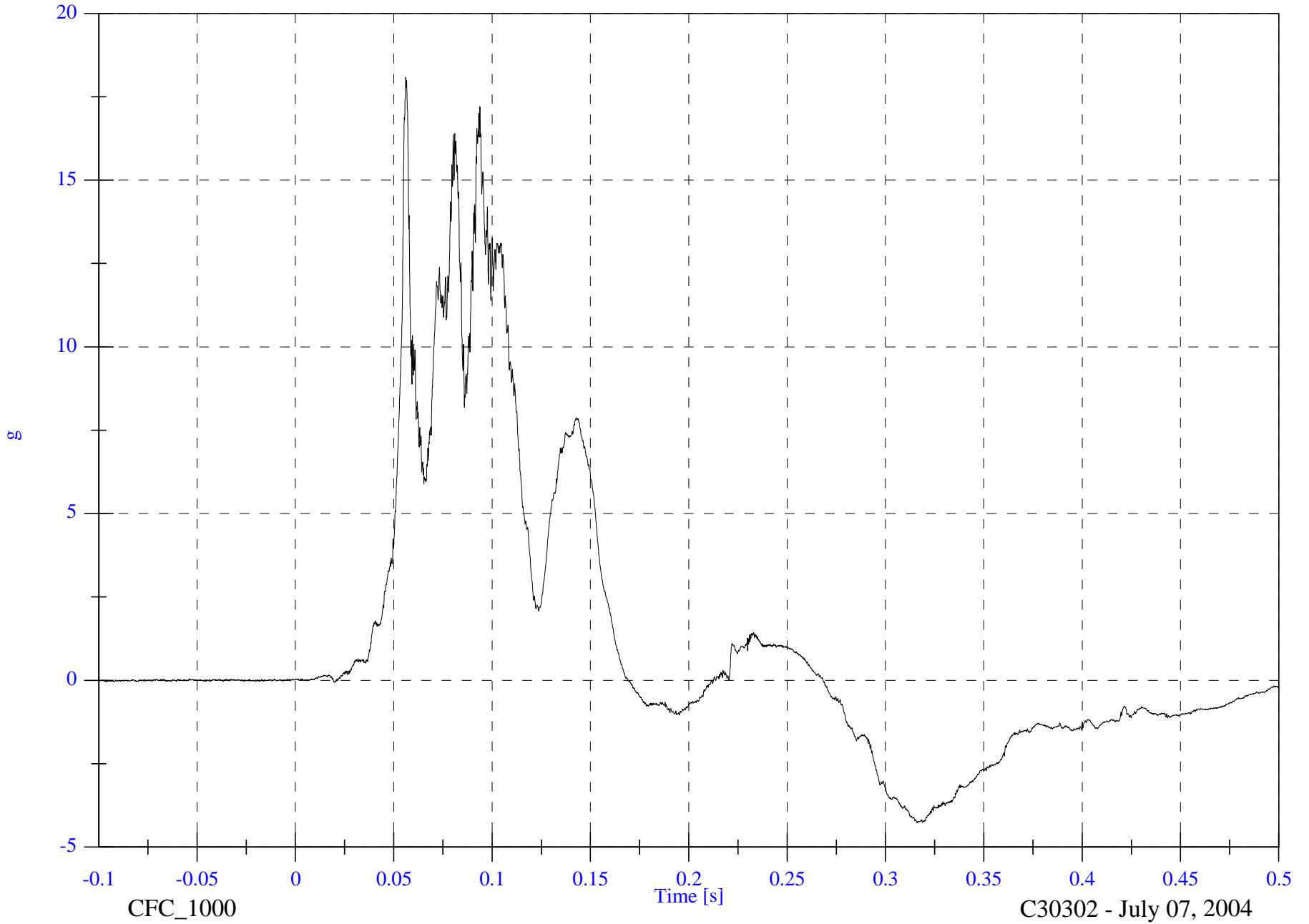
V2P1 Lower Neck x

Max: 18.1 [g] at 0.056 [s]

Min: -4.3 [g] at 0.316 [s]

B-34

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

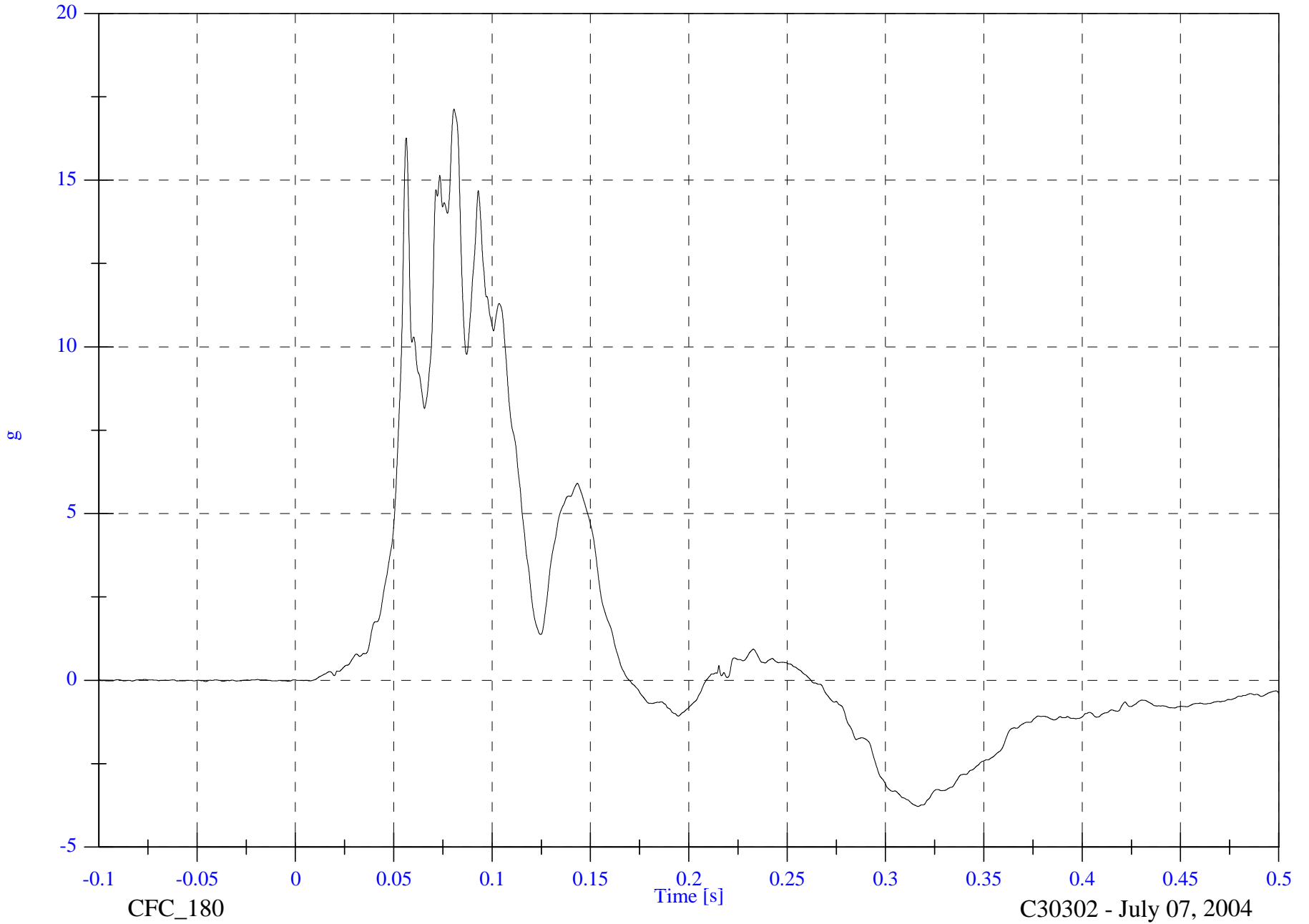
V2P1 Chest x

Max: 17.1 [g] at 0.081 [s]

Min: -3.8 [g] at 0.317 [s]

B-35

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

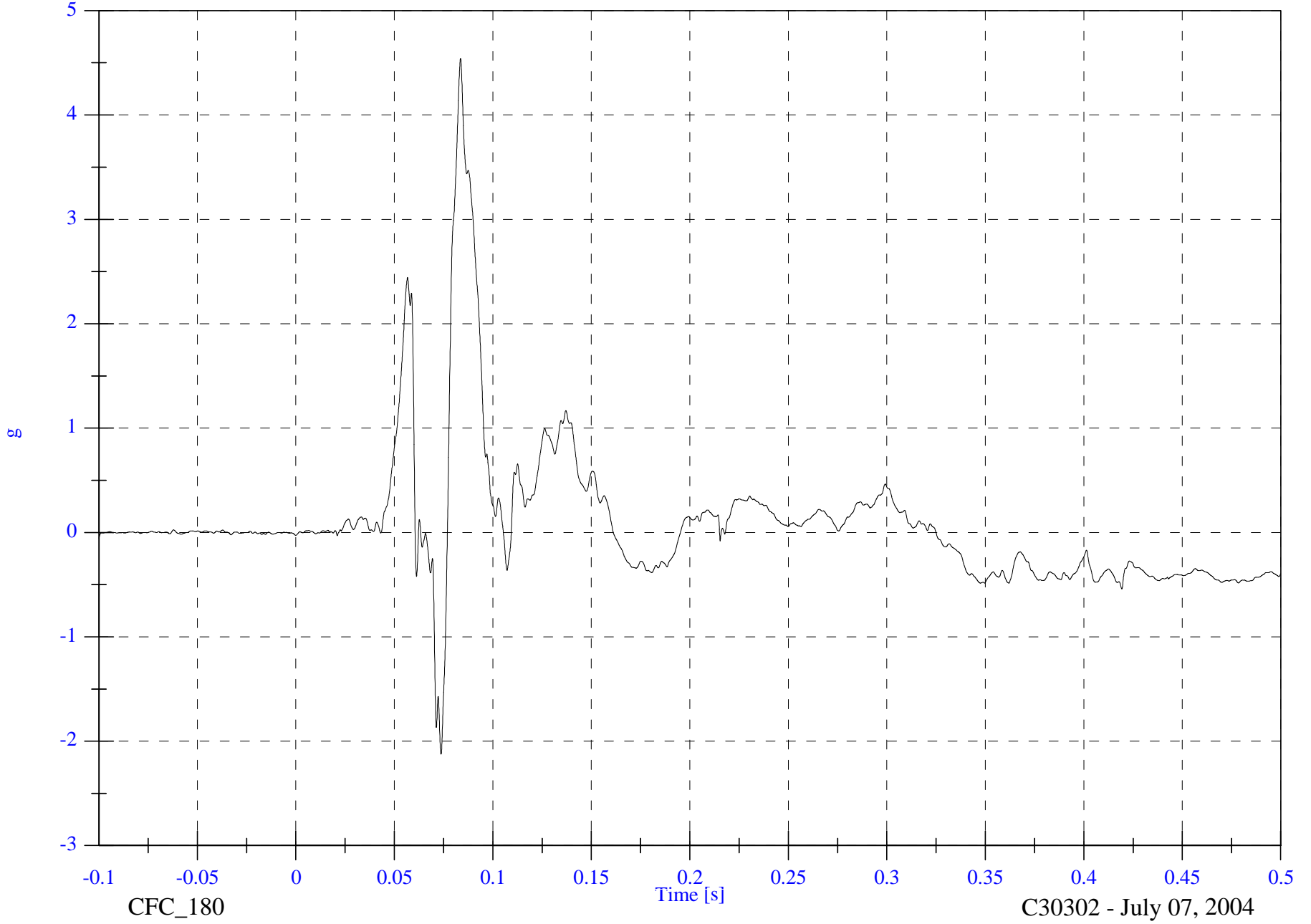
V2P1 Chest y

Max: 4.5 [g] at 0.084 [s]

Min: -2.1 [g] at 0.074 [s]

B-36

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

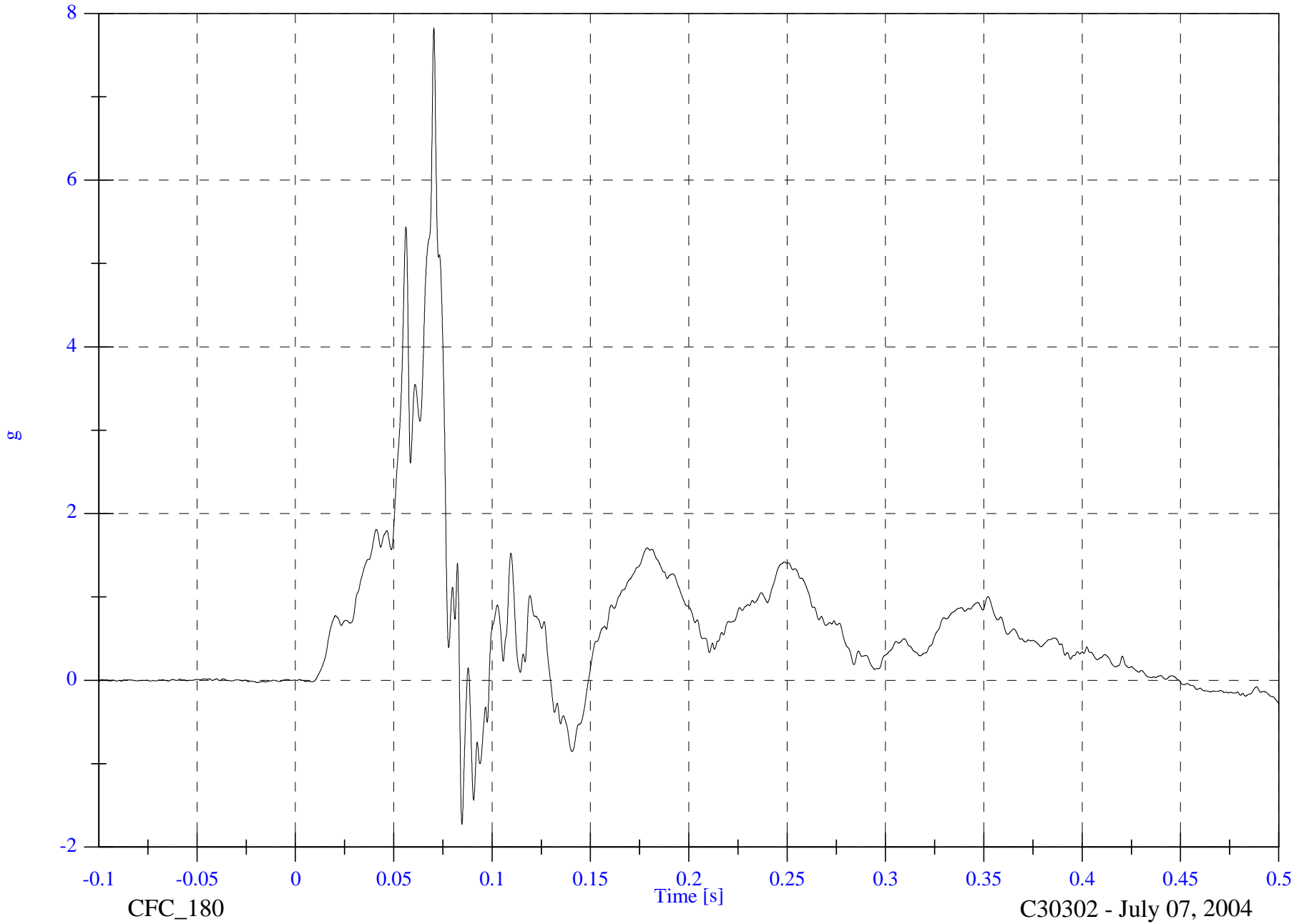
V2P1 Chest z

Max: 7.8 [g] at 0.070 [s]

Min: -1.7 [g] at 0.085 [s]

B-37

8655-F301-23R



CFC_180

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

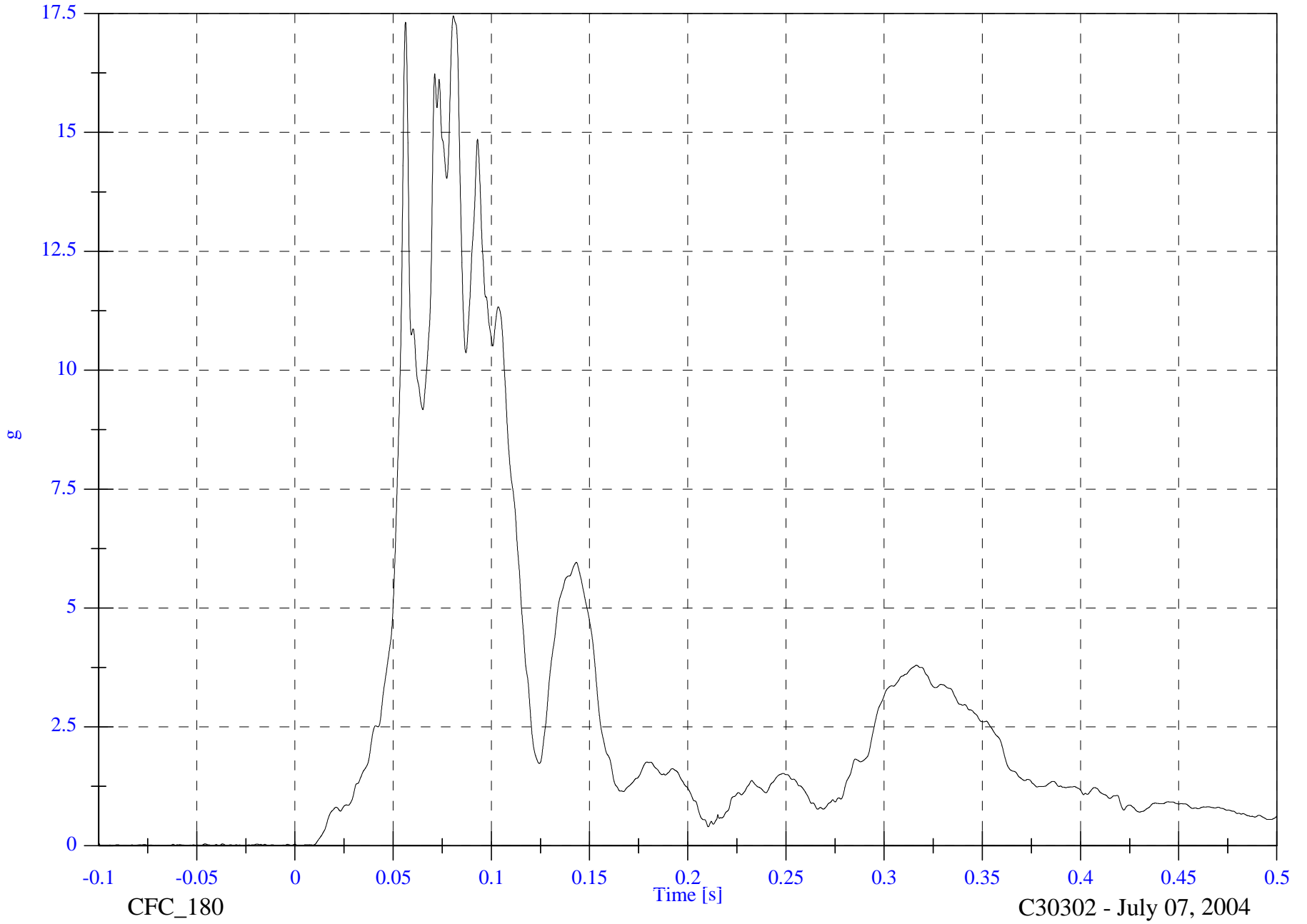
V2P1 Chest Resultant

Max: 17.5 [g] at 0.081 [s]

Min: 0.0 [g] at -0.042 [s]

B-38

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

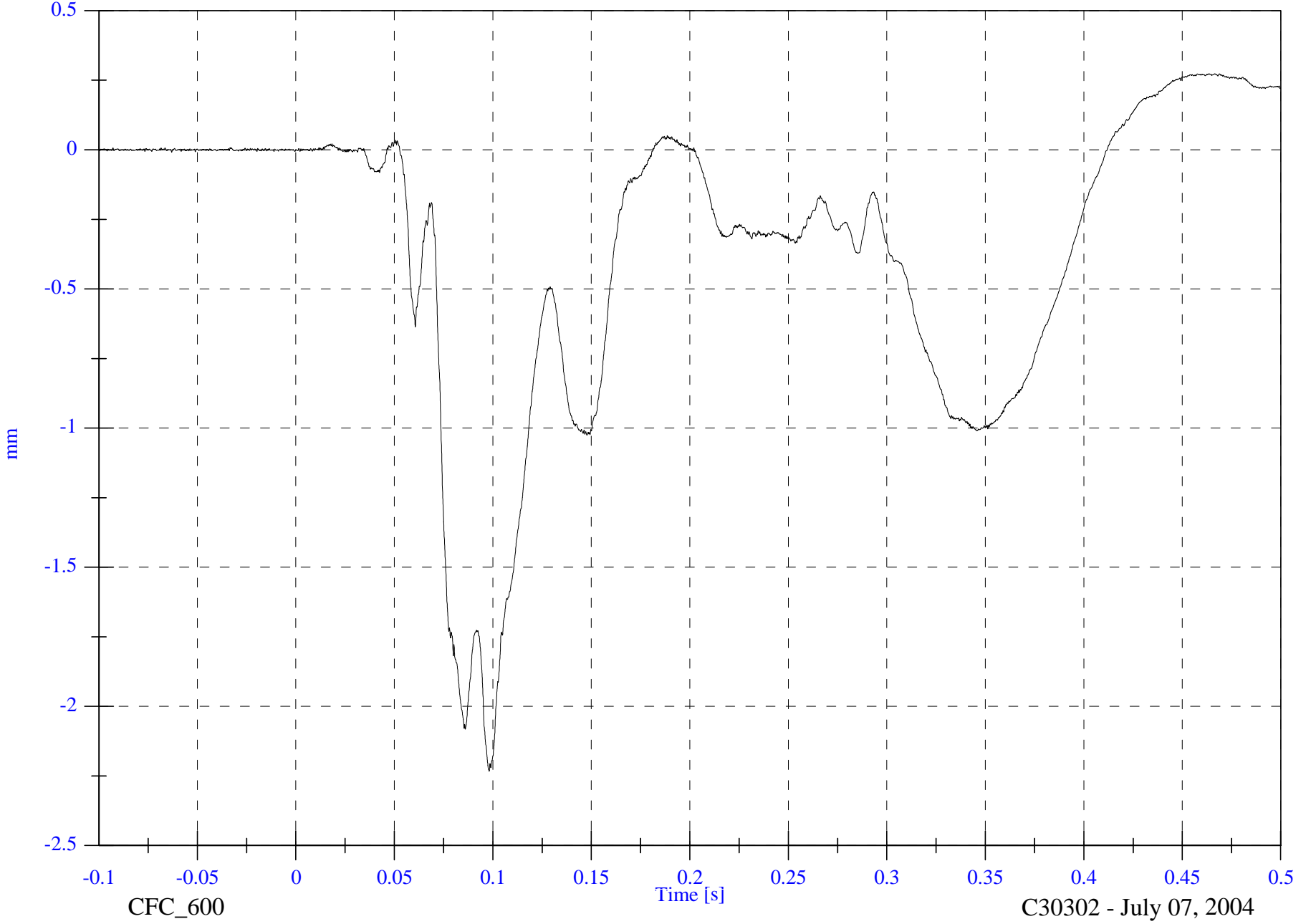
V2P1 Chest Displacement

Max: 0.3 [mm] at 0.464 [s]

Min: -2.2 [mm] at 0.098 [s]

B-39

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

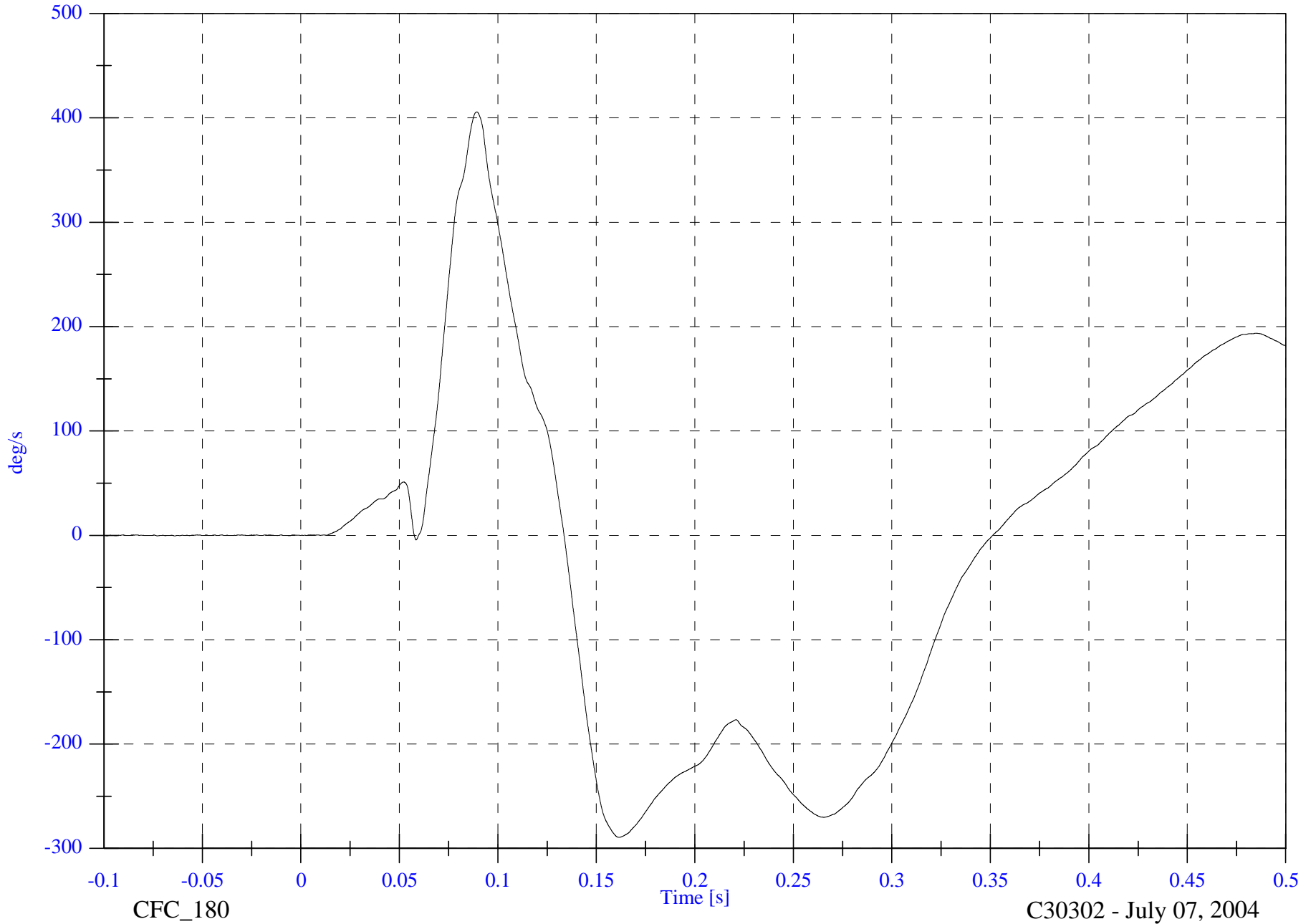
V2P1 Chest AVy

Max: 405.7 [deg/s] at 0.089 [s]

Min: -289.5 [deg/s] at 0.162 [s]

B-40

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

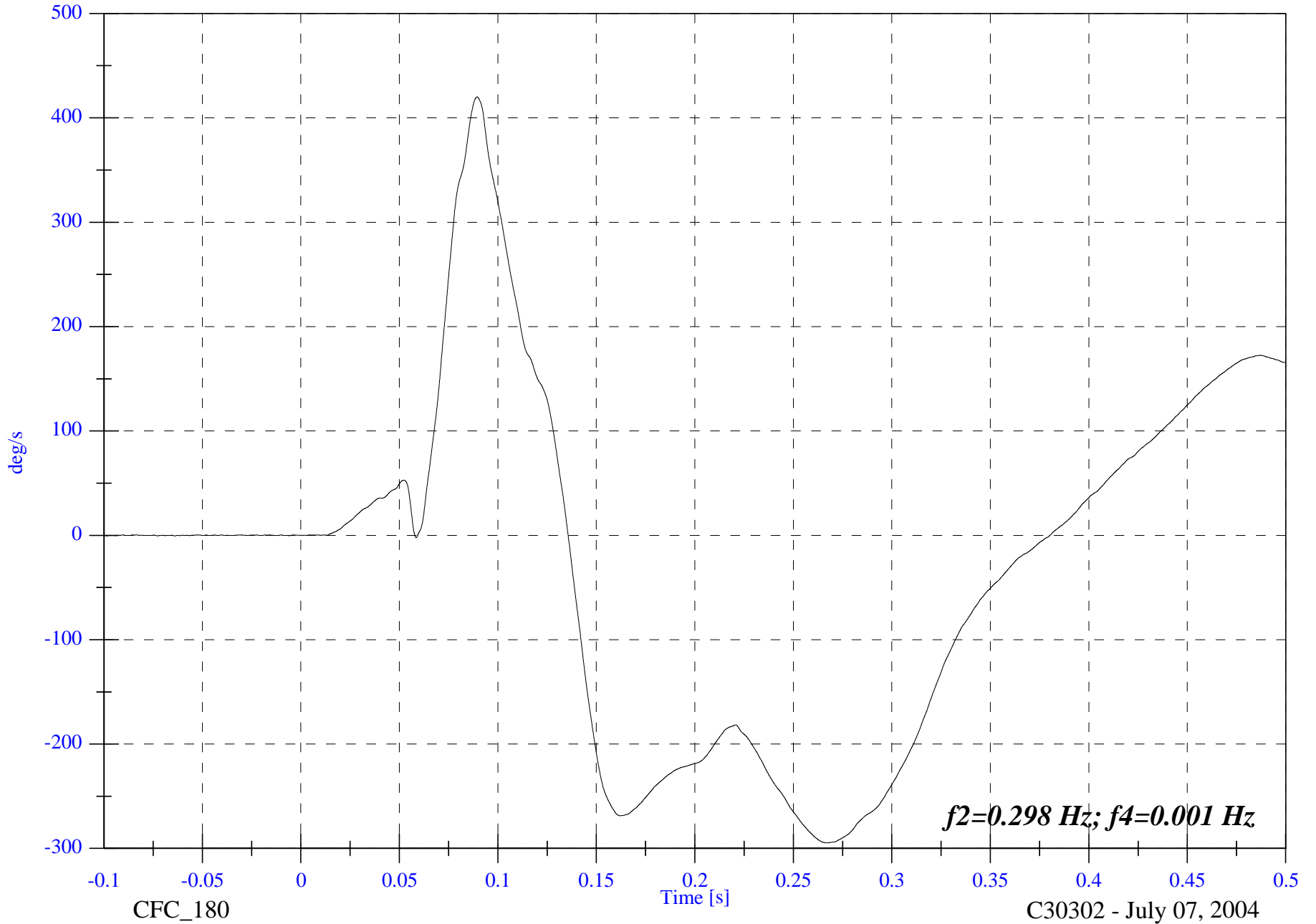
V2P1 Chest Comp AVy

Max: 420.0 [deg/s] at 0.090 [s]

Min: -294.7 [deg/s] at 0.267 [s]

B-41

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

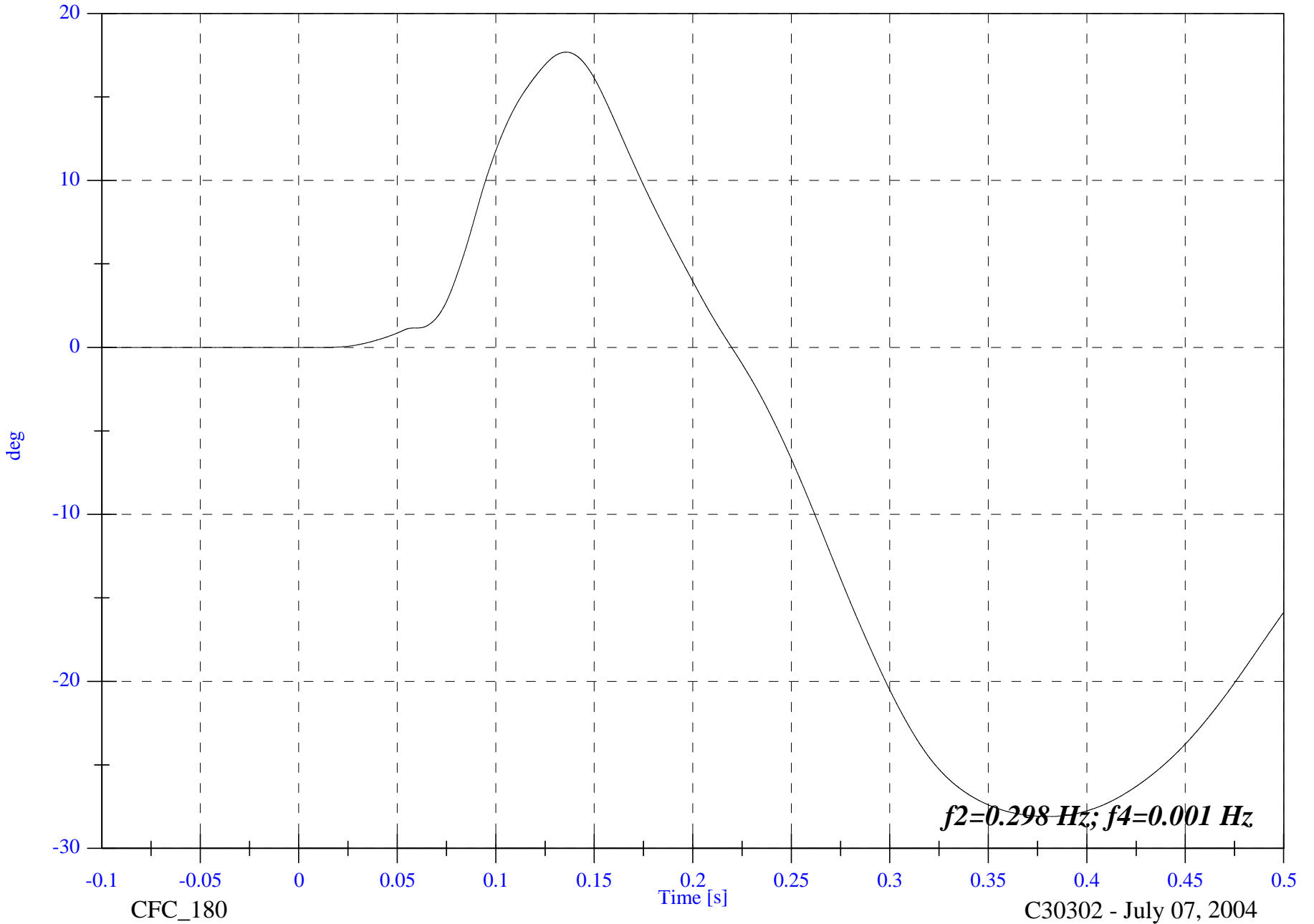
V2P1 Chest Comp ADy

Max: 17.7 [deg] at 0.136 [s]

Min: -28.1 [deg] at 0.380 [s]

B-42

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

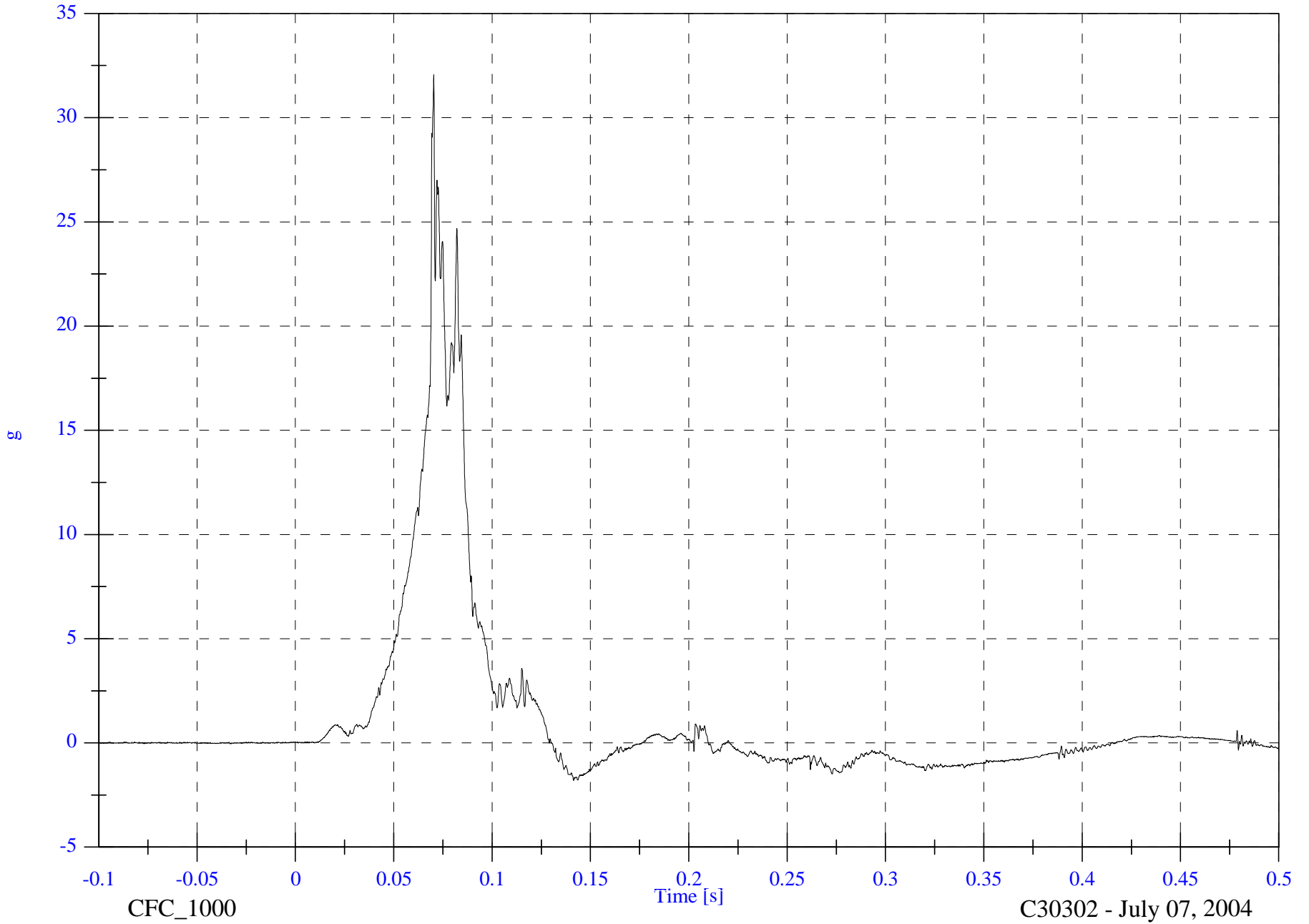
V2P1 Pelvic x

Max: 32.1 [g] at 0.070 [s]

Min: -1.8 [g] at 0.141 [s]

B-43

8655-F301-23R



CFC_1000

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

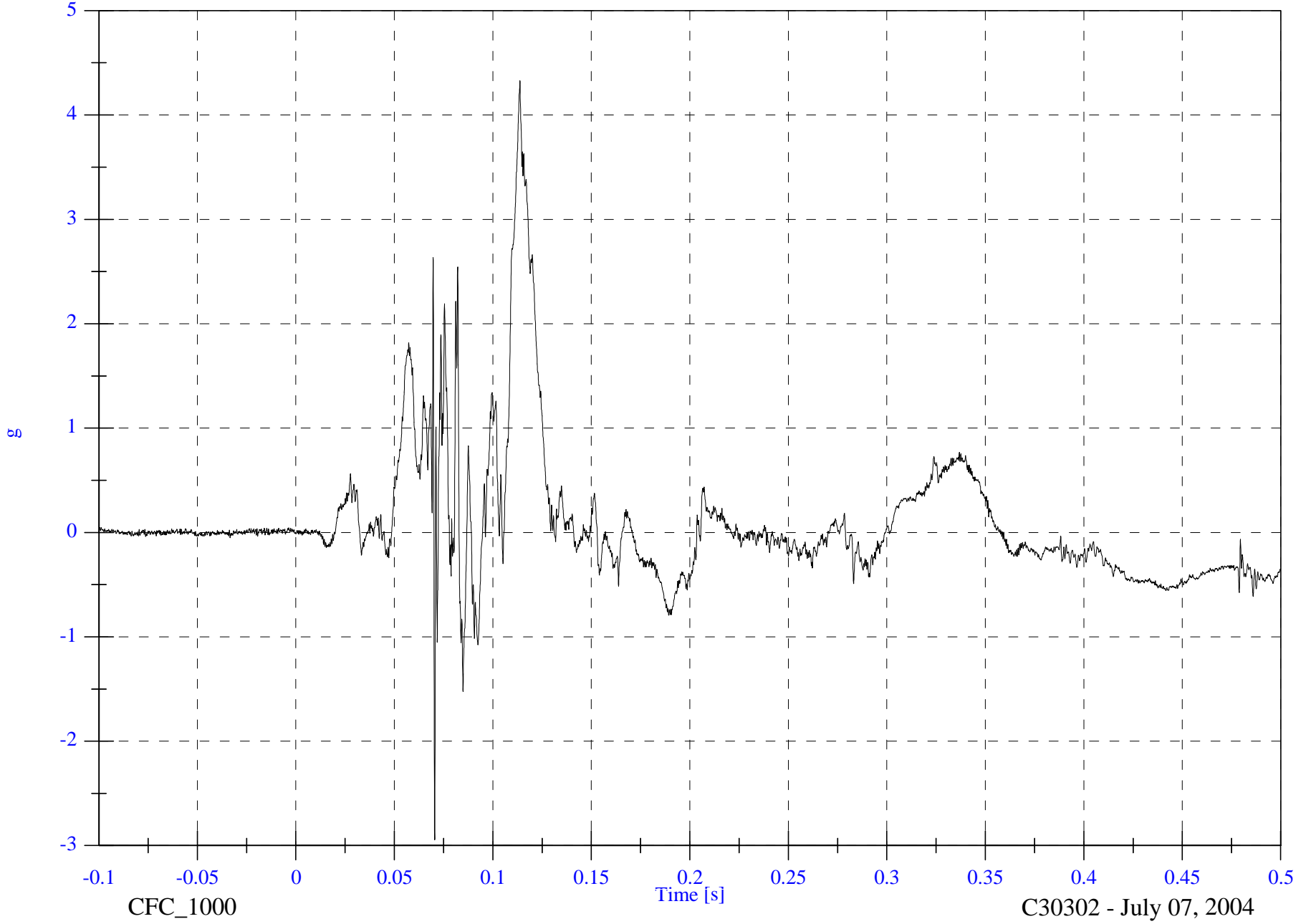
V2P1 Pelvic y

Max: 4.3 [g] at 0.114 [s]

Min: -2.9 [g] at 0.070 [s]

B-44

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

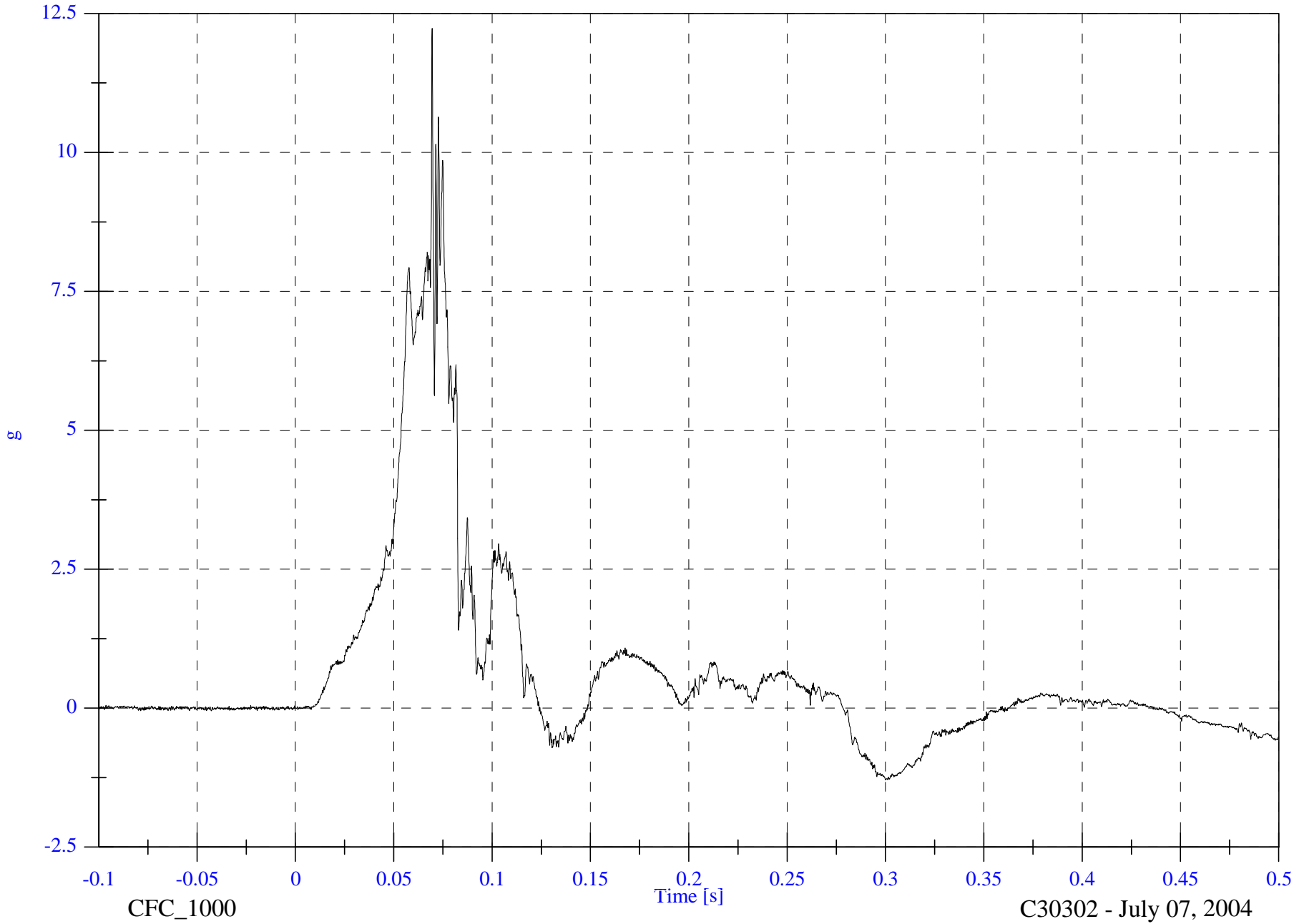
V2P1 Pelvic z

Max: 12.2 [g] at 0.069 [s]

Min: -1.3 [g] at 0.300 [s]

B-45

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

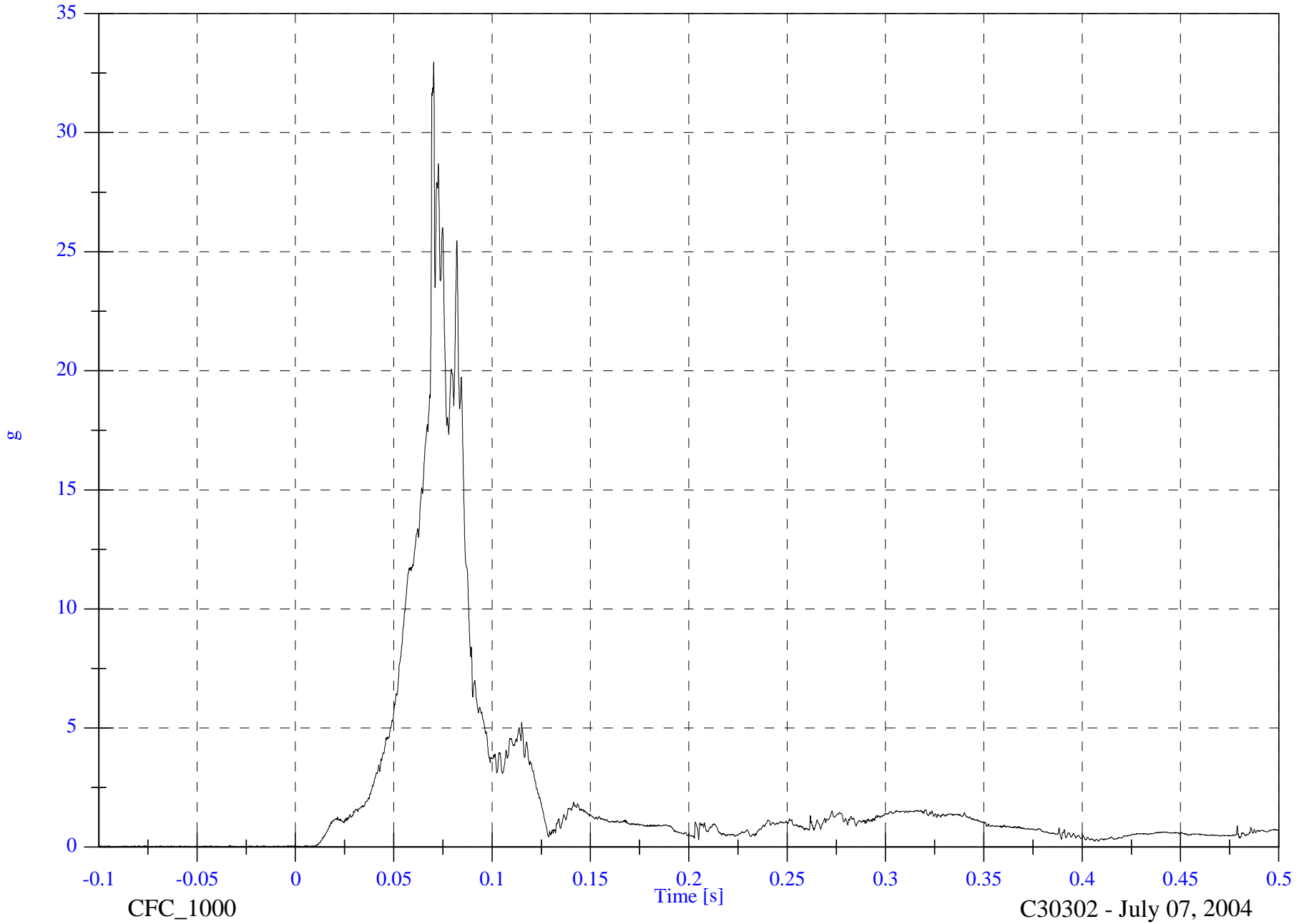
V2P1 Pelvic Resultant

Max: 33.0 [g] at 0.070 [s]

Min: 0.0 [g] at -0.013 [s]

B-46

8655-F301-23R



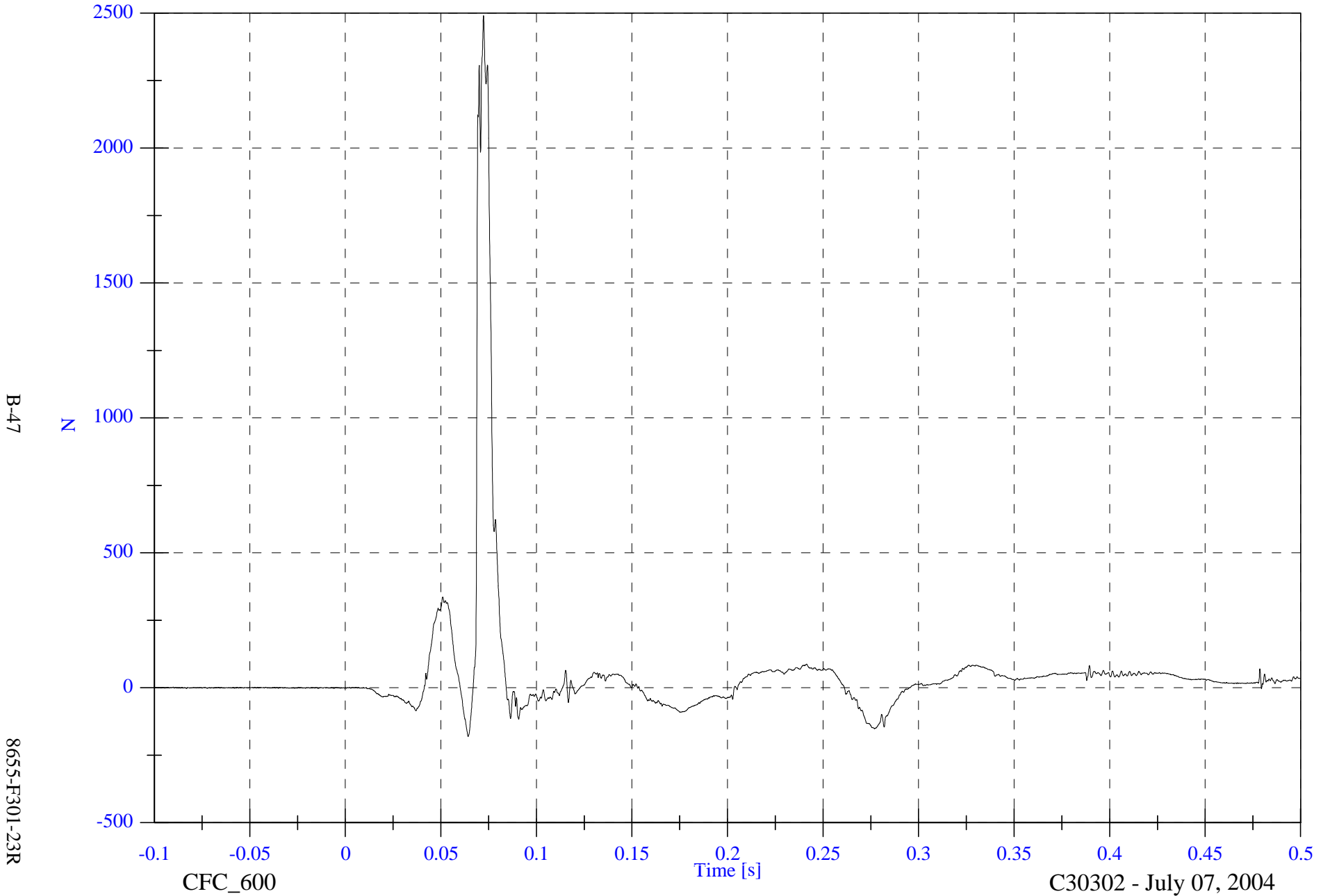
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Left Femur

Max: 2490.5 [N] at 0.072 [s]

Min: -180.3 [N] at 0.064 [s]

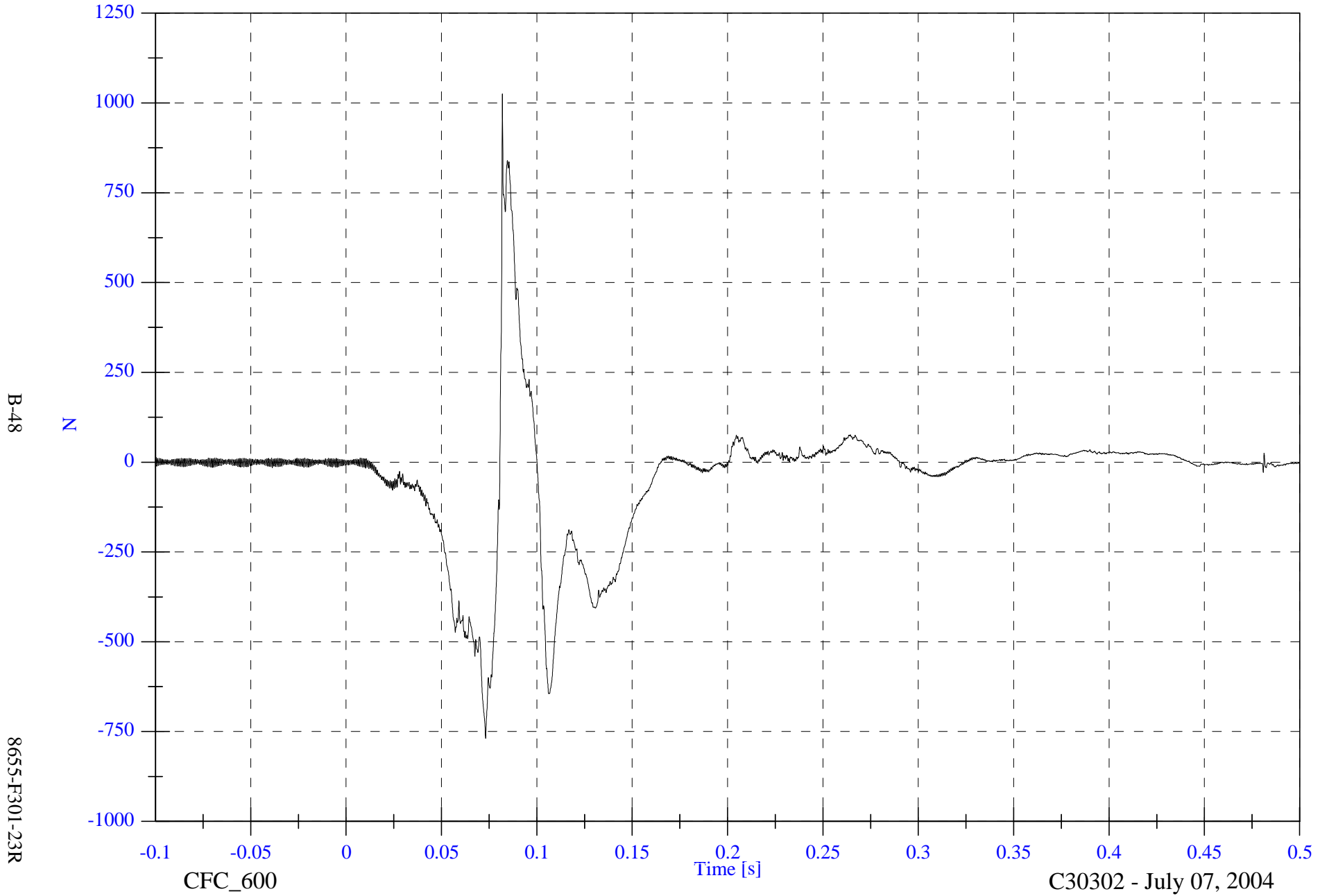


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Right Femur

Max: 1025.0 [N] at 0.082 [s]

Min: -768.9 [N] at 0.073 [s]



FMVSS301 Test 9 - 2004 Jeep Liberty

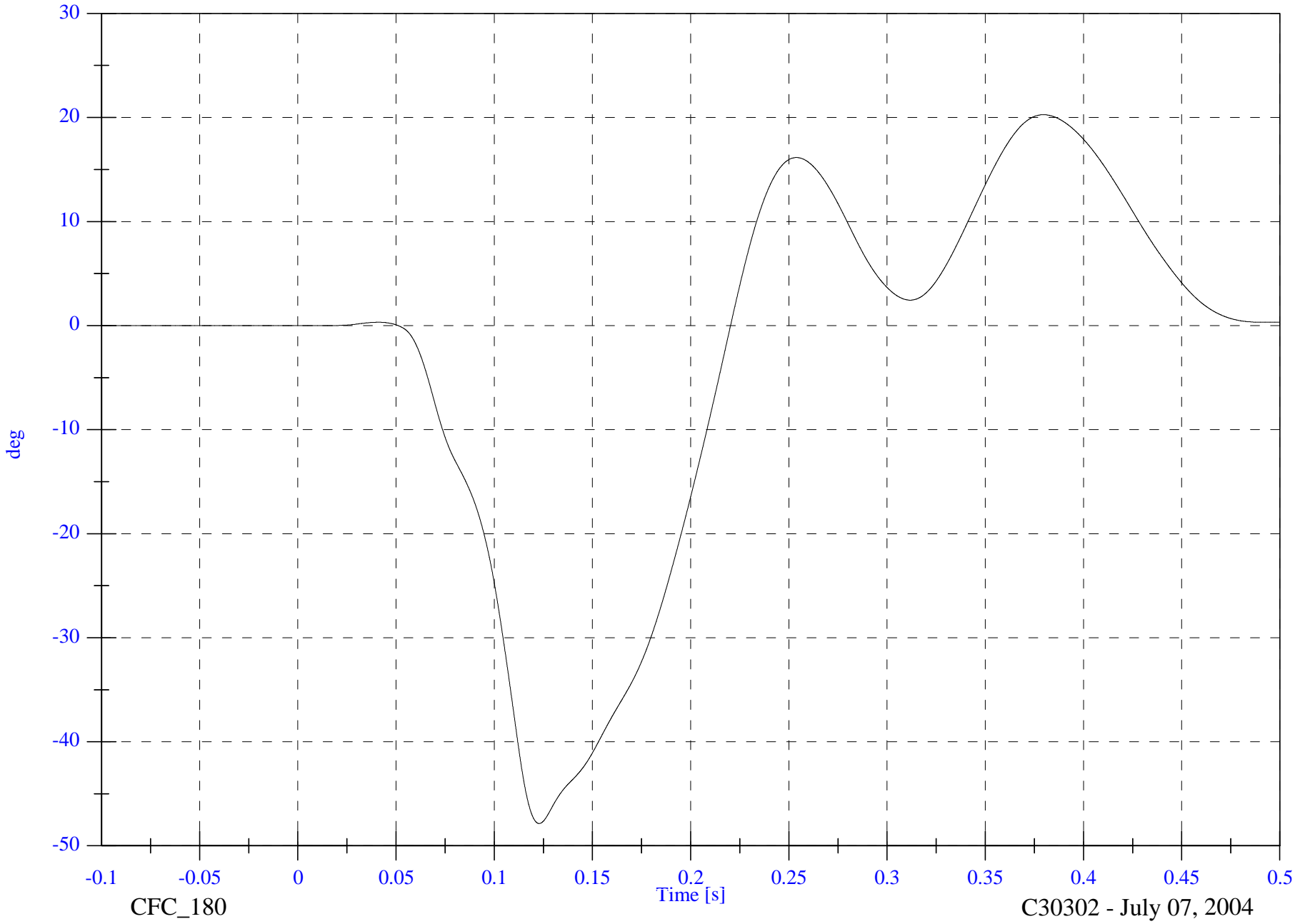
V2P1 Head to Chest

Max: 20.3 [deg] at 0.380 [s]

Min: -47.9 [deg] at 0.123 [s]

B-49

8655-F301-23R



CFC_180

Time [s]

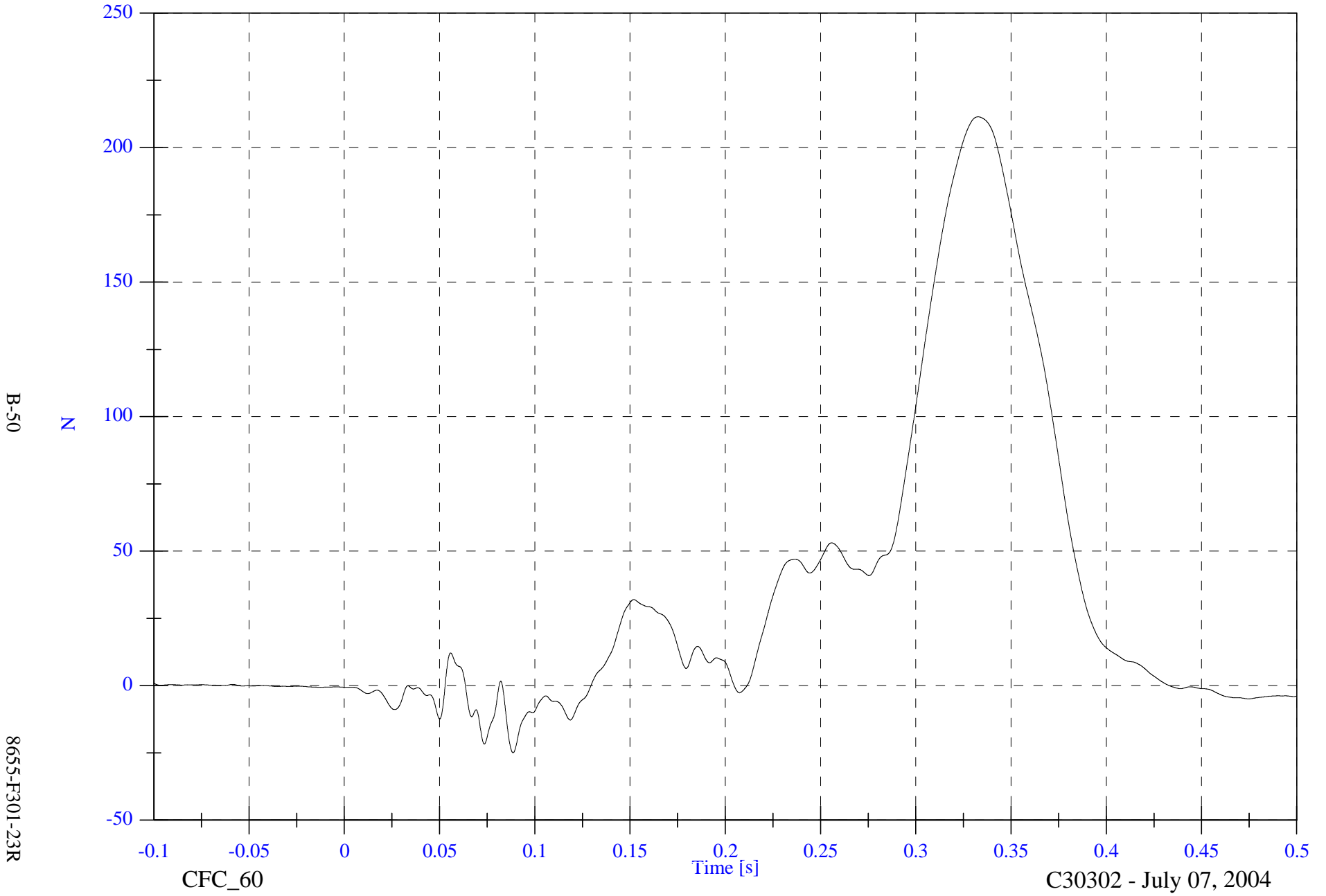
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Lap Belt

Max: 211.4 [N] at 0.333 [s]

Min: -25.0 [N] at 0.089 [s]

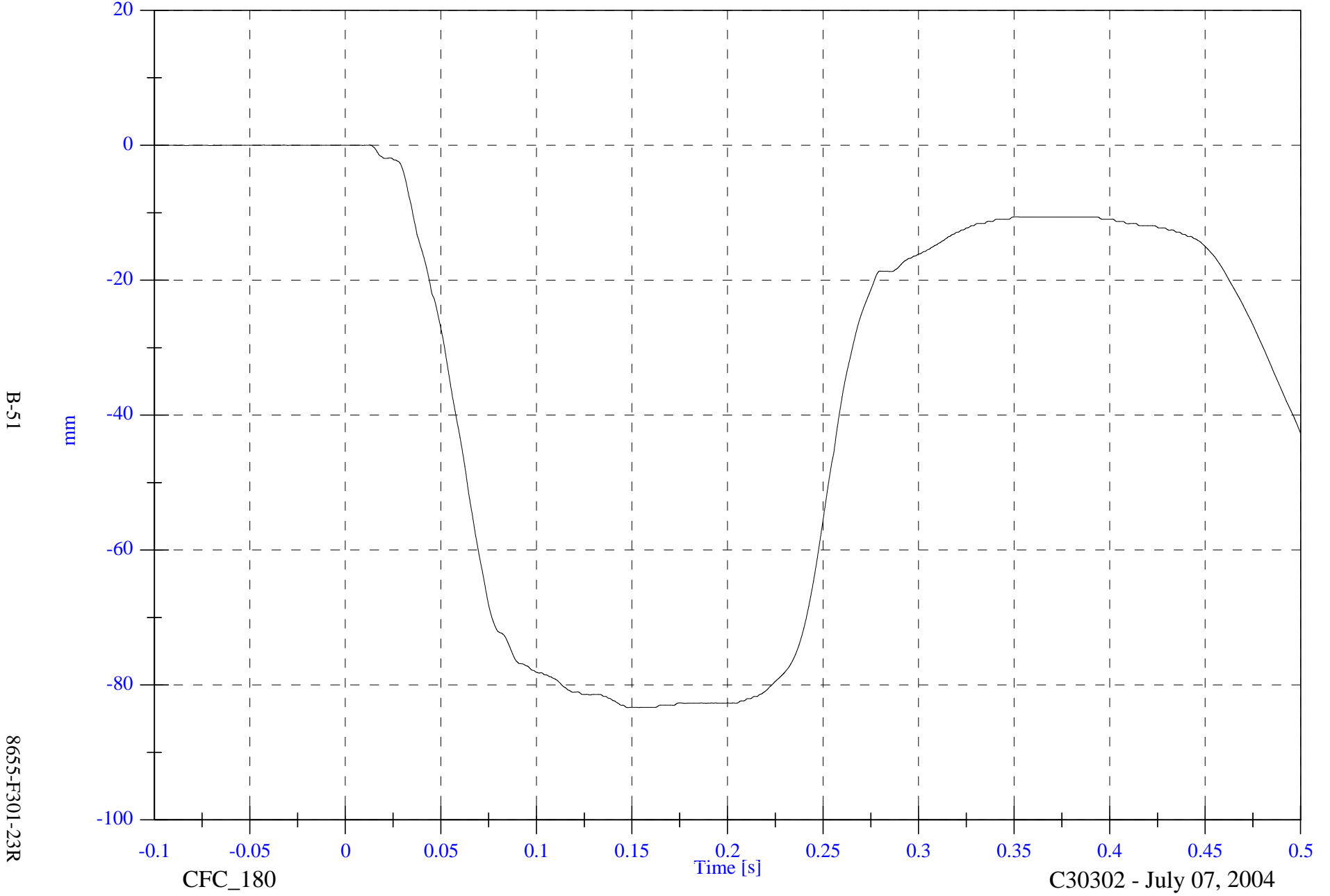


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Belt Spoolout

Max: 0.0 [mm] at 0.013 [s]

Min: -83.3 [mm] at 0.148 [s]



B-51

8655-F301-23R

CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

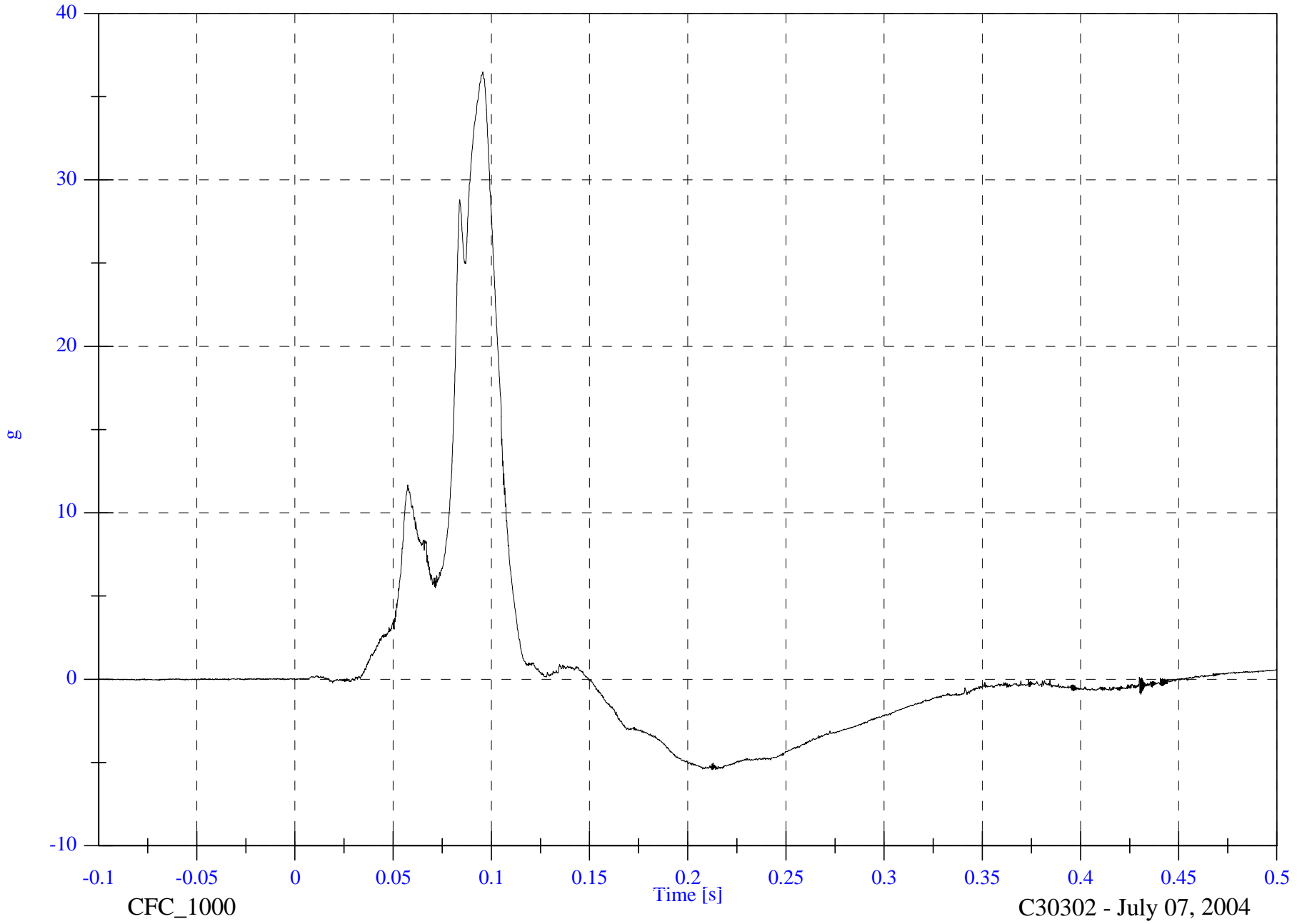
V2P3 Head x

Max: 36.5 [g] at 0.096 [s]

Min: -5.4 [g] at 0.213 [s]

B-52

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

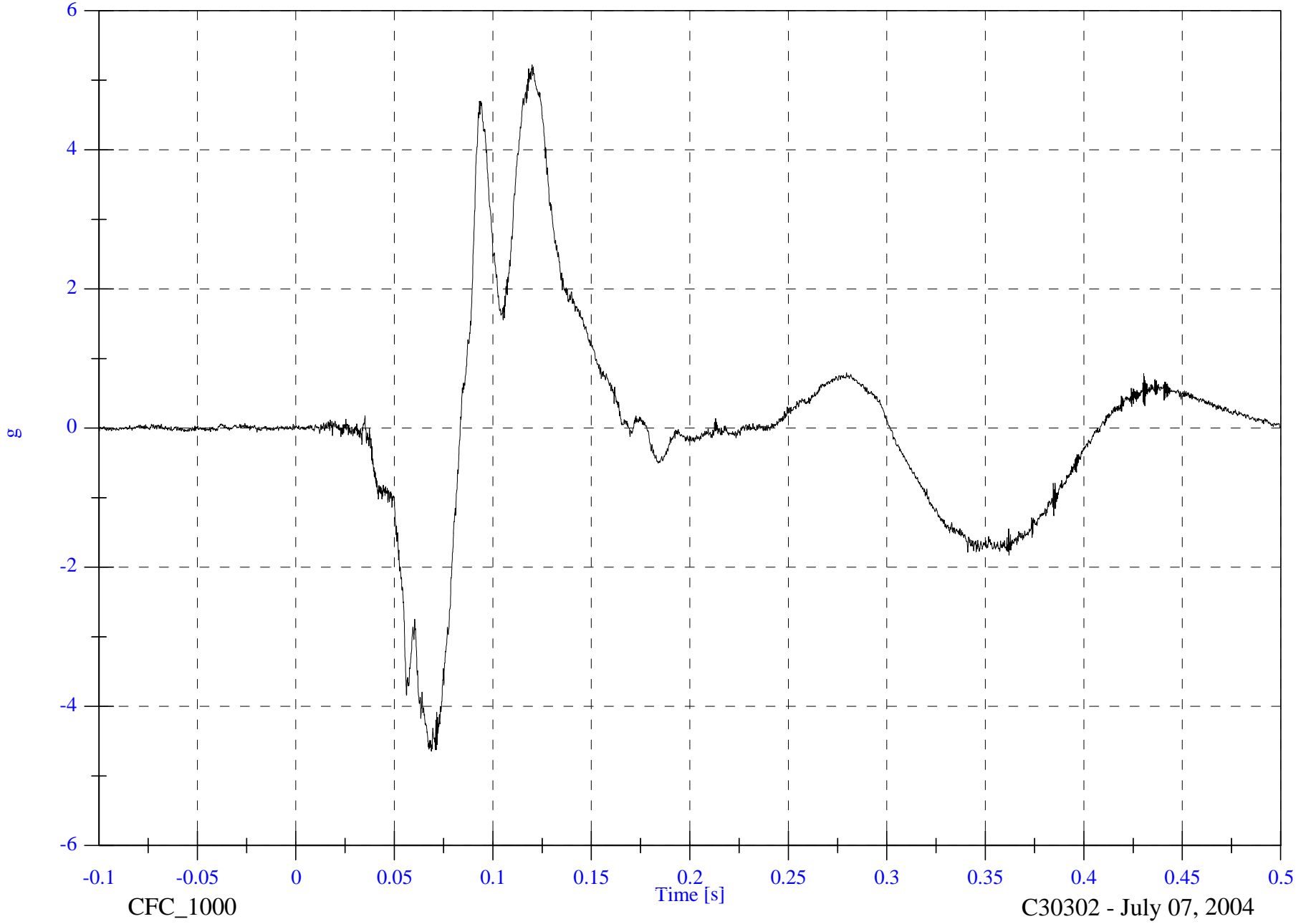
V2P3 Head y

Max: 5.2 [g] at 0.120 [s]

Min: -4.6 [g] at 0.069 [s]

B-53

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

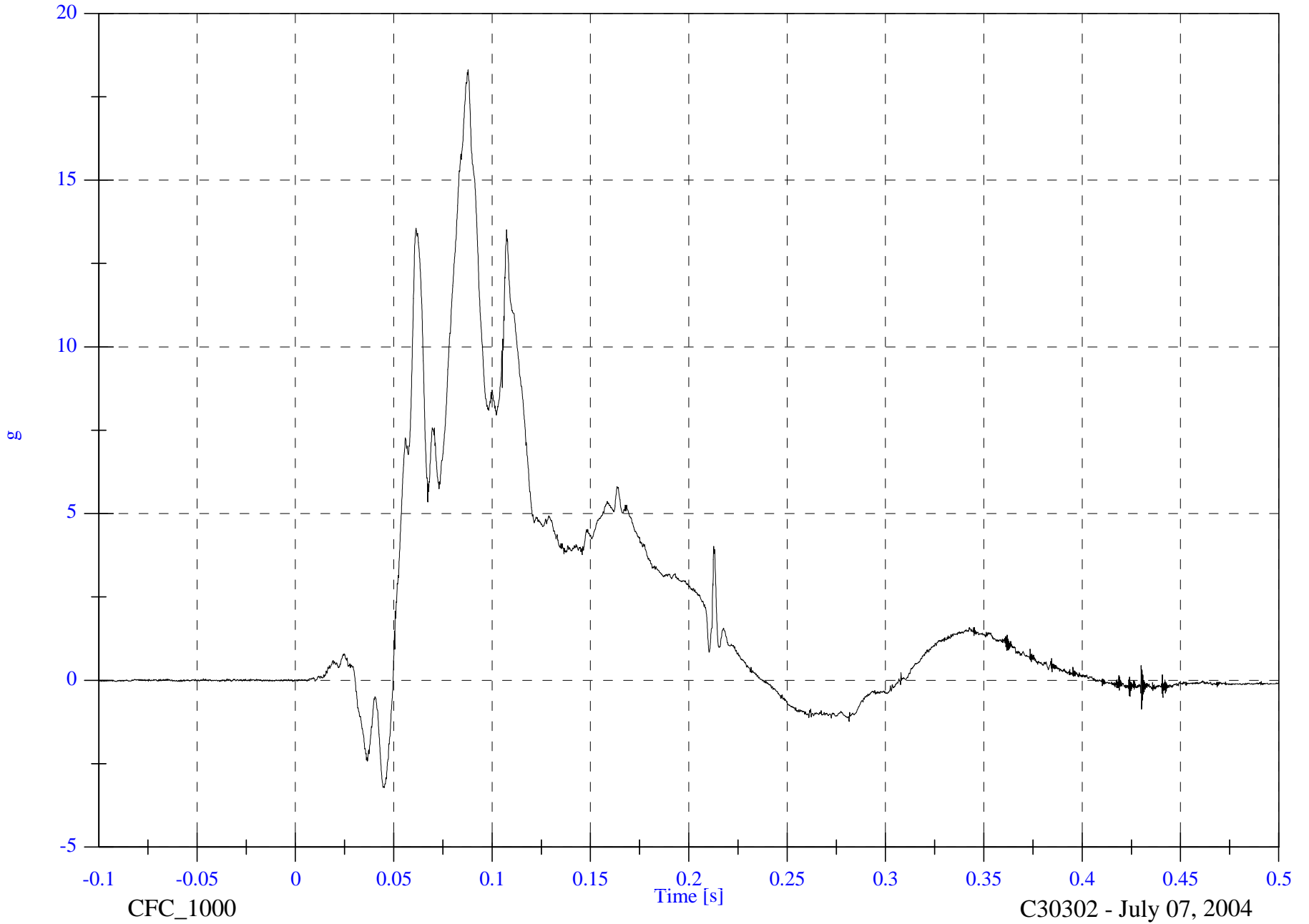
V2P3 Head z

Max: 18.3 [g] at 0.088 [s]

Min: -3.2 [g] at 0.045 [s]

B-54

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

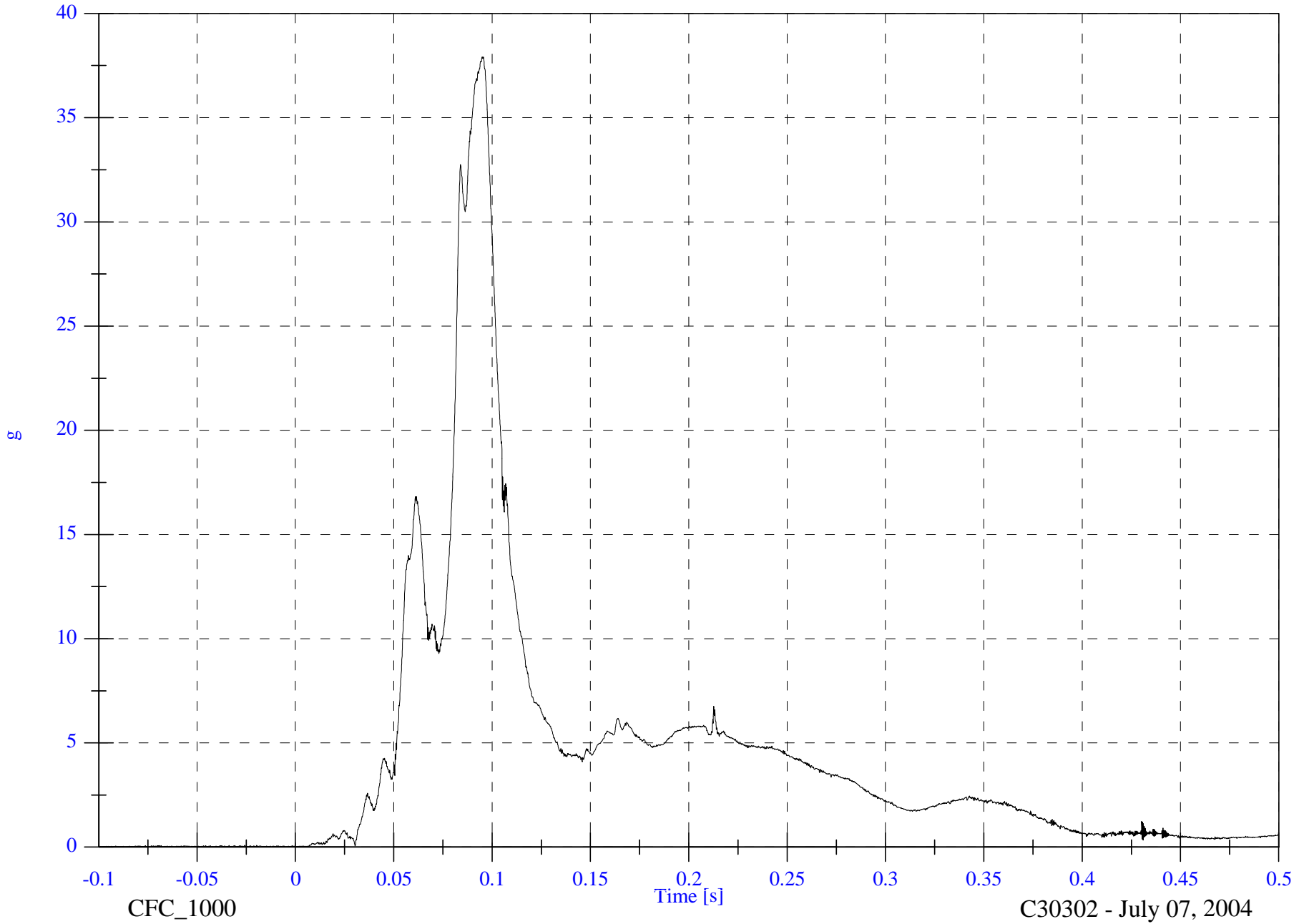
V2P3 Head Resultant

Max: 37.9 [g] at 0.095 [s]

Min: 0.0 [g] at -0.033 [s]

B-55

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

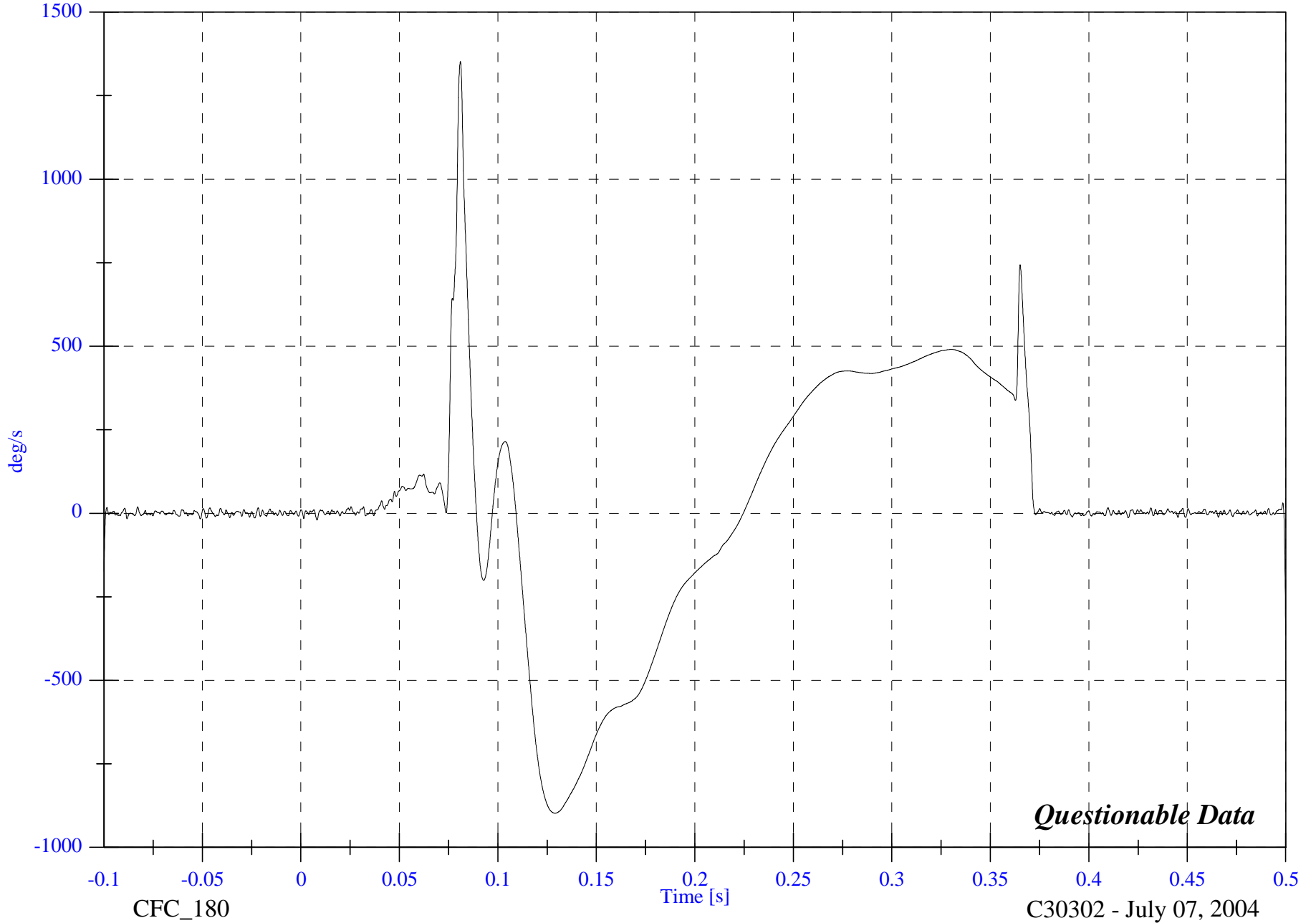
V2P3 Head AVy

Max: 1352.5 [deg/s] at 0.081 [s]

Min: -897.9 [deg/s] at 0.129 [s]

B-56

8655-F301-23R



Questionable Data

FMVSS301 Test 9 - 2004 Jeep Liberty

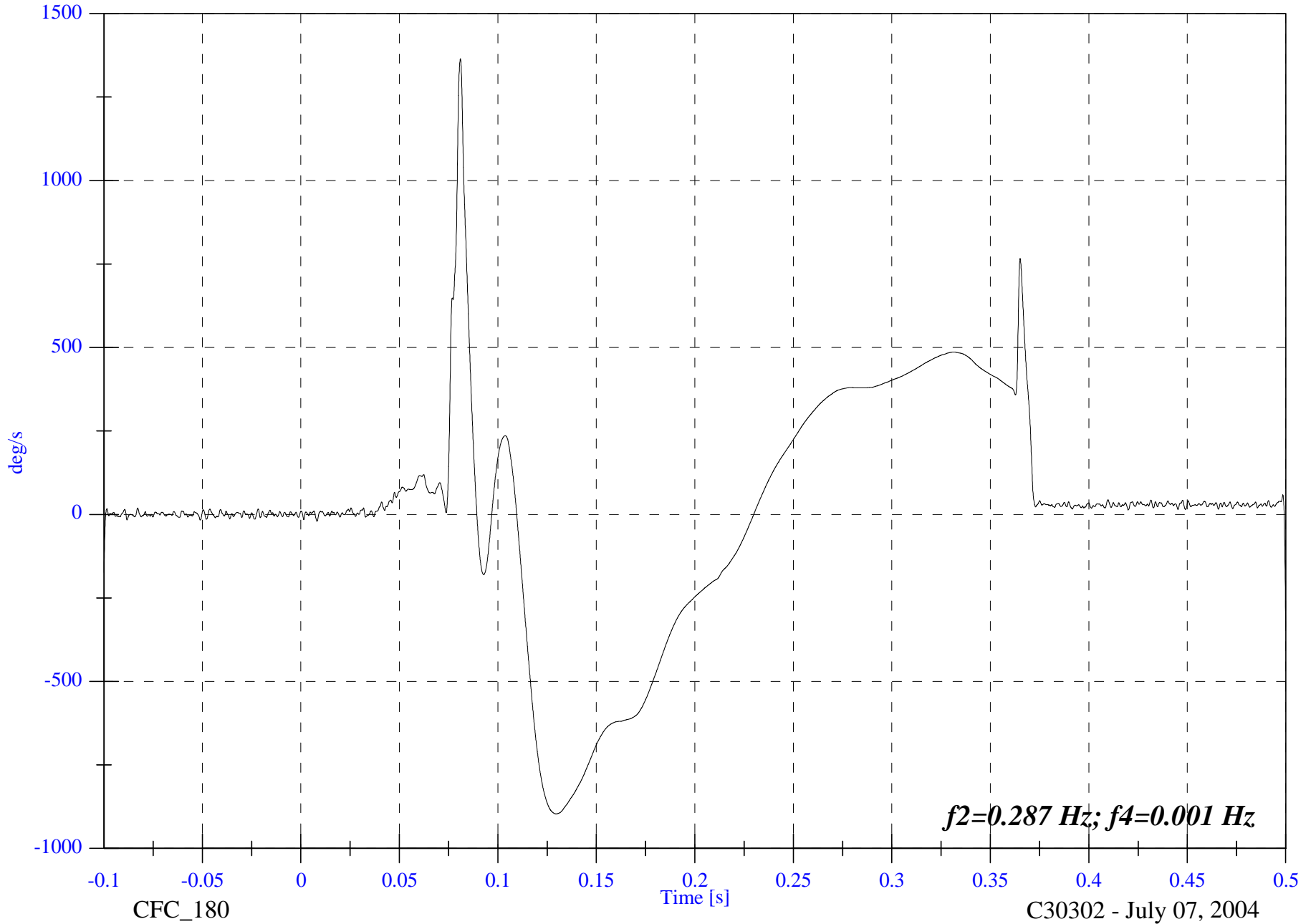
V2P3 Head Comp AVy

Max: 1365.2 [deg/s] at 0.081 [s]

Min: -896.7 [deg/s] at 0.130 [s]

B-57

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

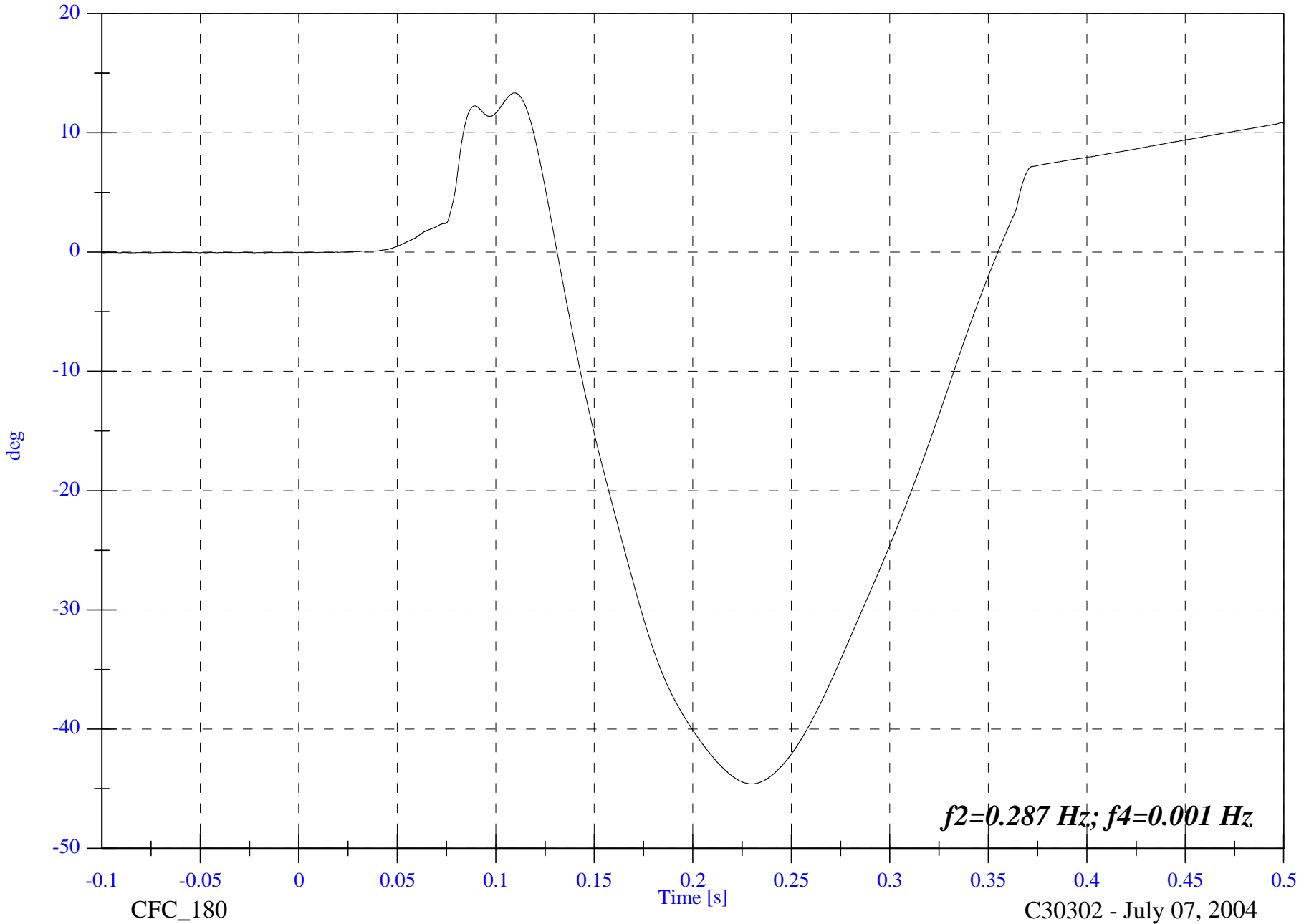
V2P3 Head Comp ADy

Max: 13.3 [deg] at 0.110 [s]

Min: -44.6 [deg] at 0.230 [s]

B-58

8655-F301-23R

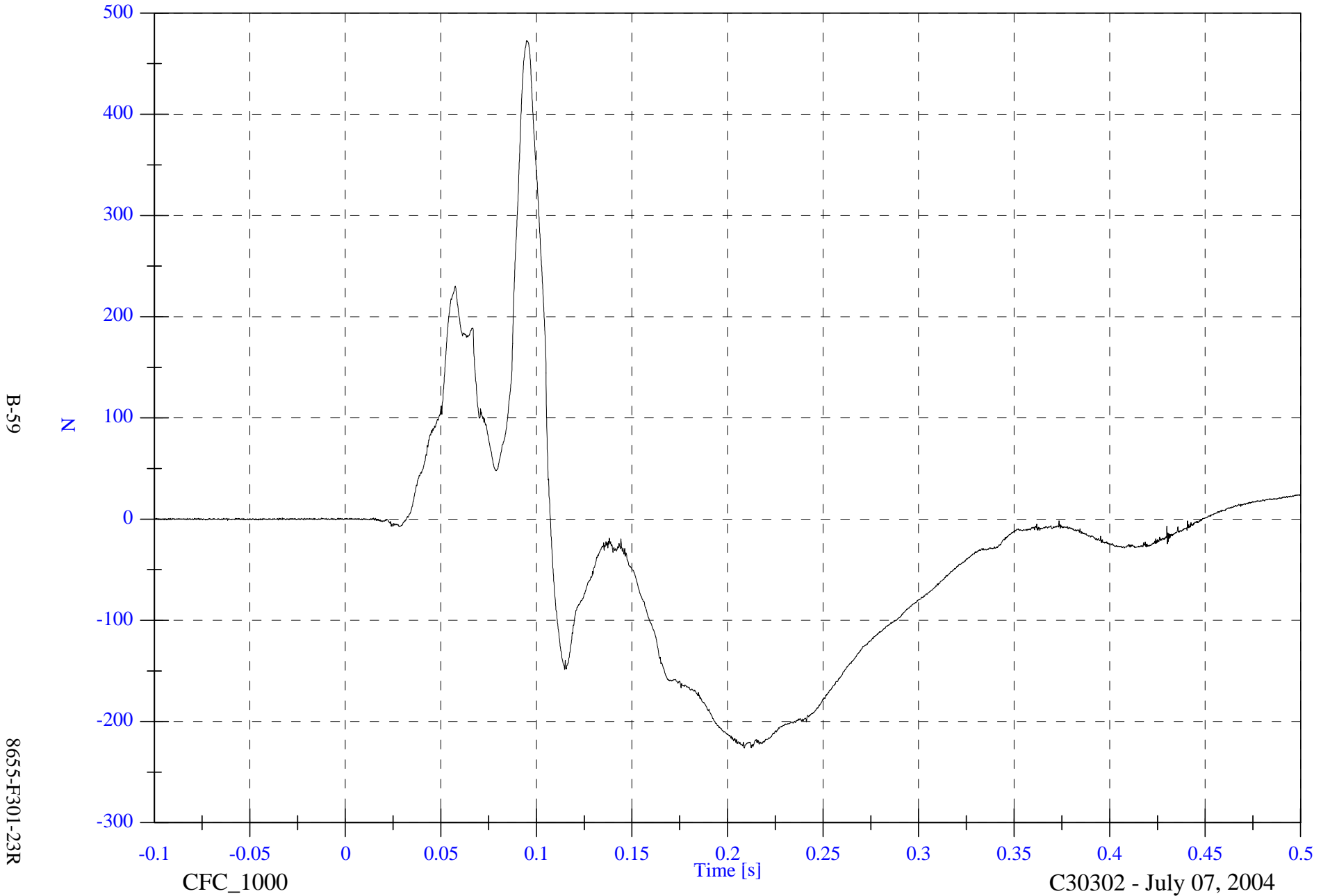


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Upper Neck Fx

Max: 472.7 [N] at 0.095 [s]

Min: -226.3 [N] at 0.209 [s]

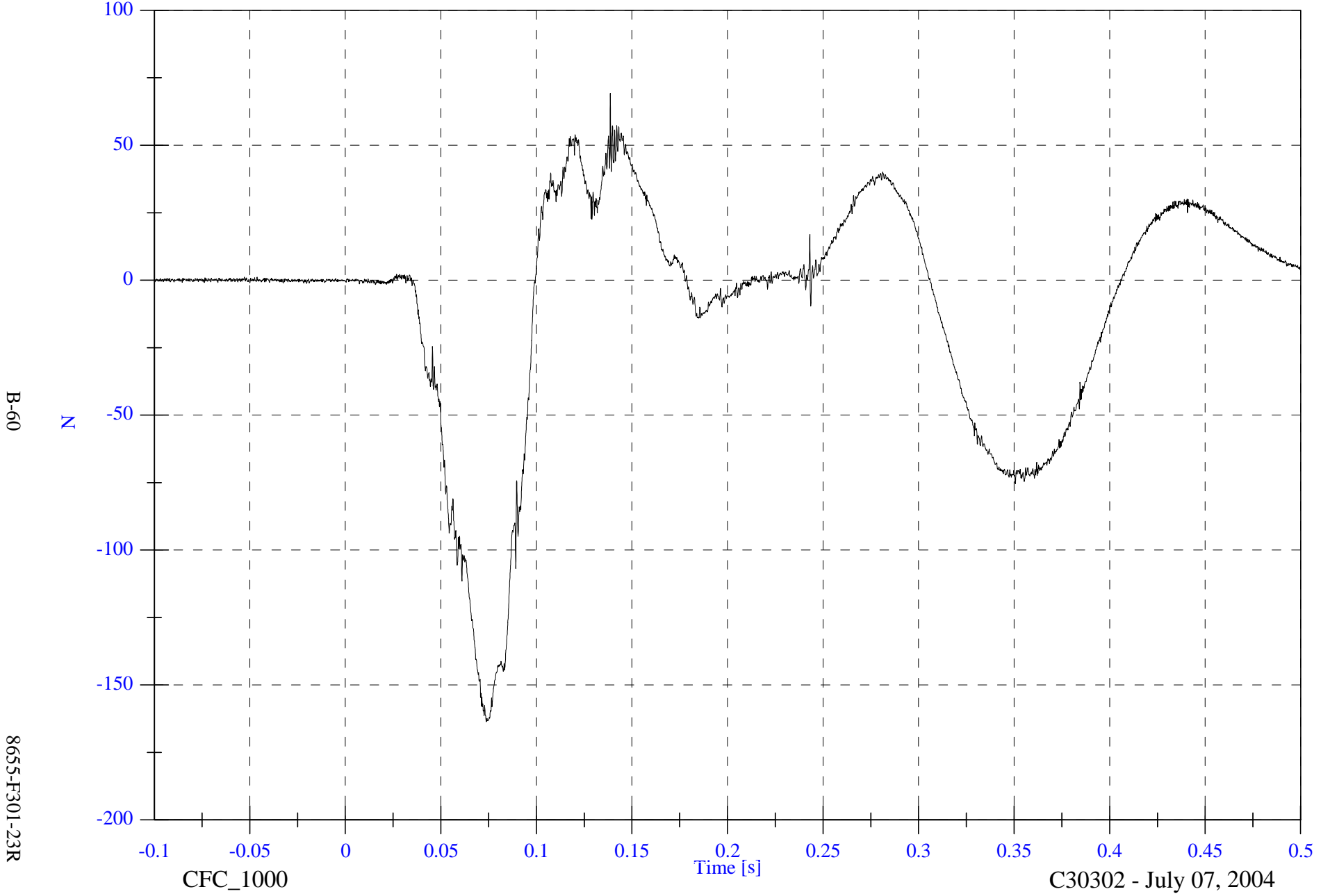


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Upper Neck Fy

Max: 69.2 [N] at 0.139 [s]

Min: -163.7 [N] at 0.074 [s]



B-60

8655-F301-23R

CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

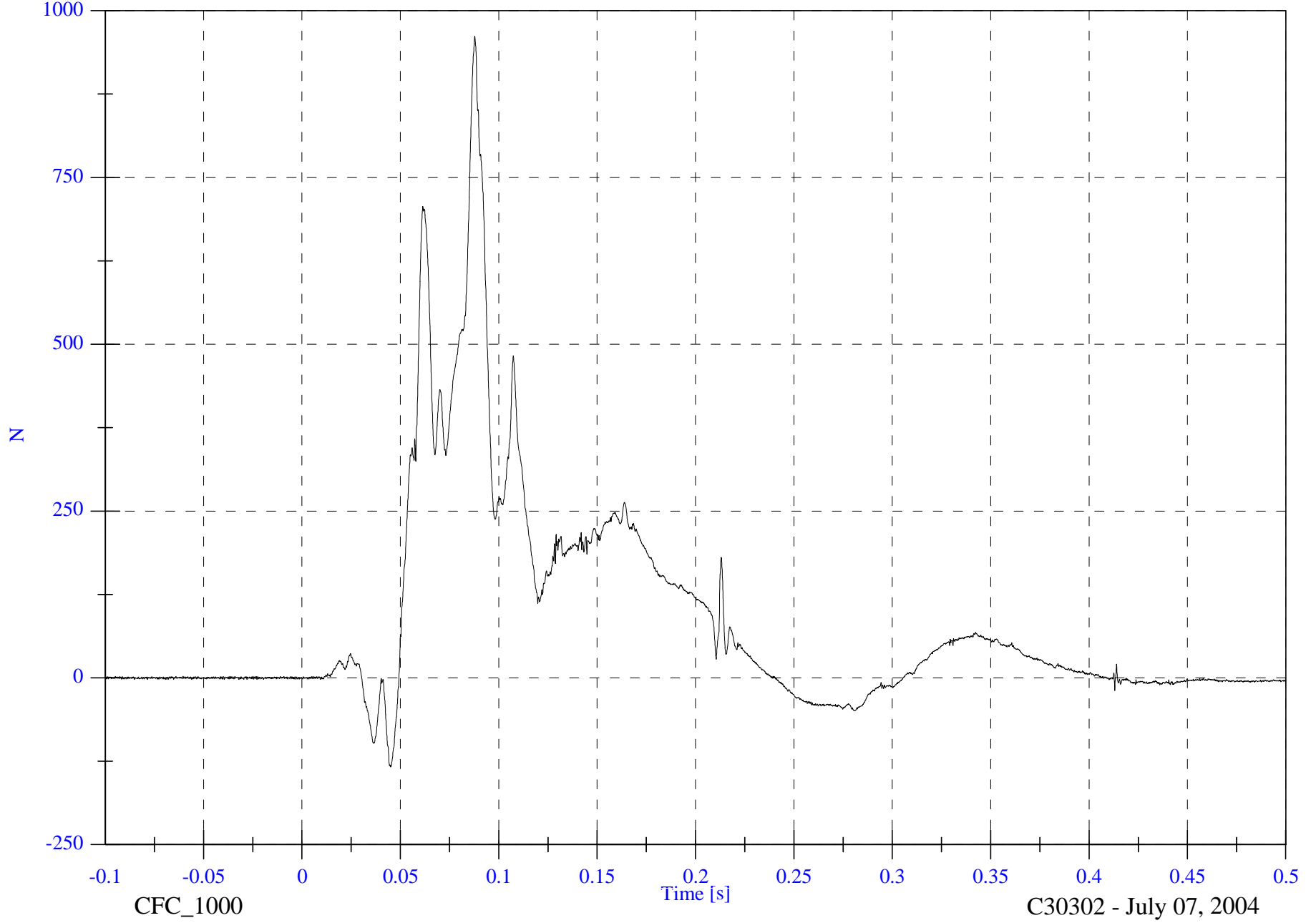
V2P3 Upper Neck Fz

Max: 961.5 [N] at 0.088 [s]

Min: -133.8 [N] at 0.045 [s]

B-61

8655-F301-23R



CFC_1000

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

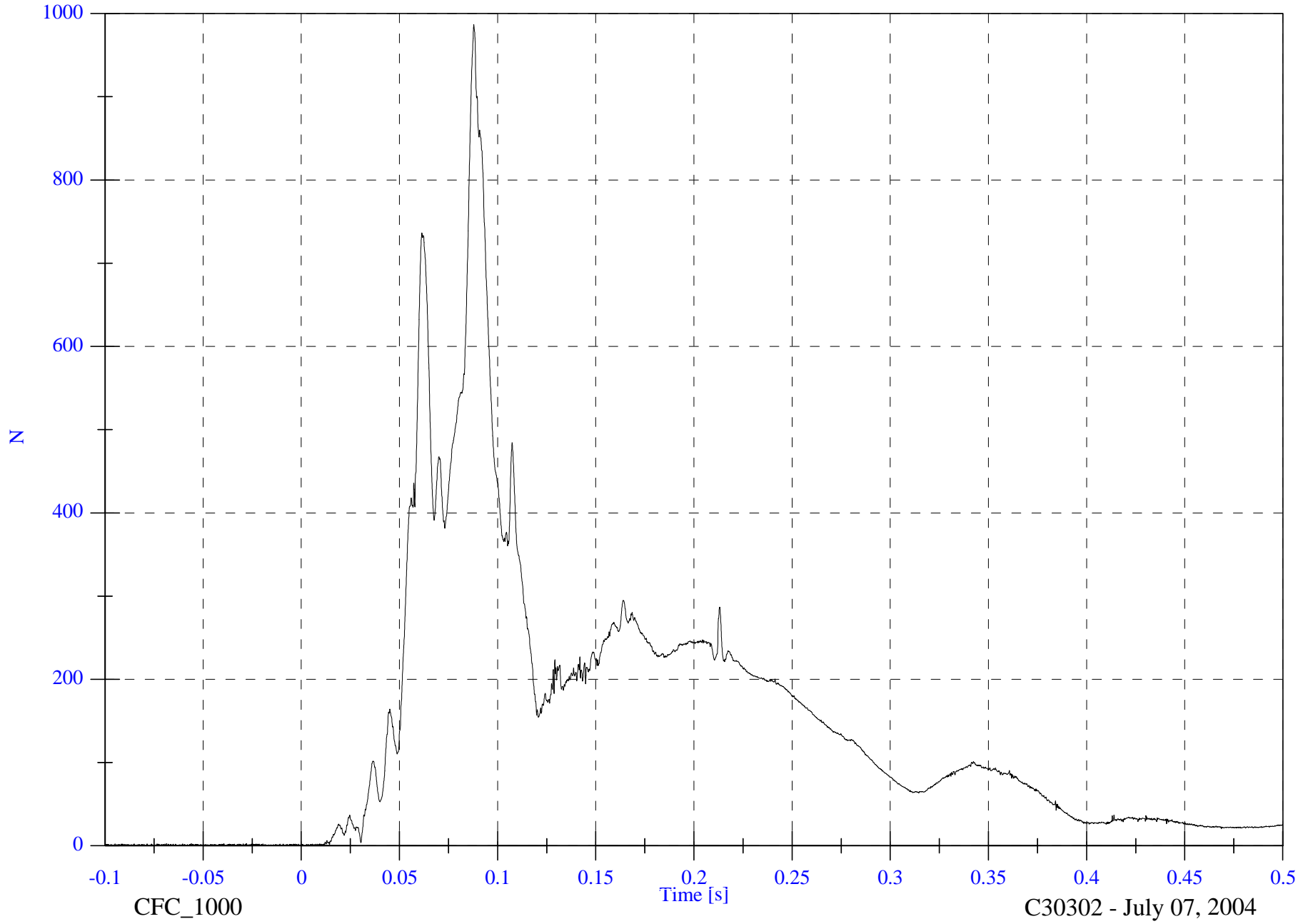
V2P3 Upper Neck F Resultant

Max: 986.7 [N] at 0.088 [s]

Min: 0.0 [N] at -0.007 [s]

B-62

8655-F301-23R



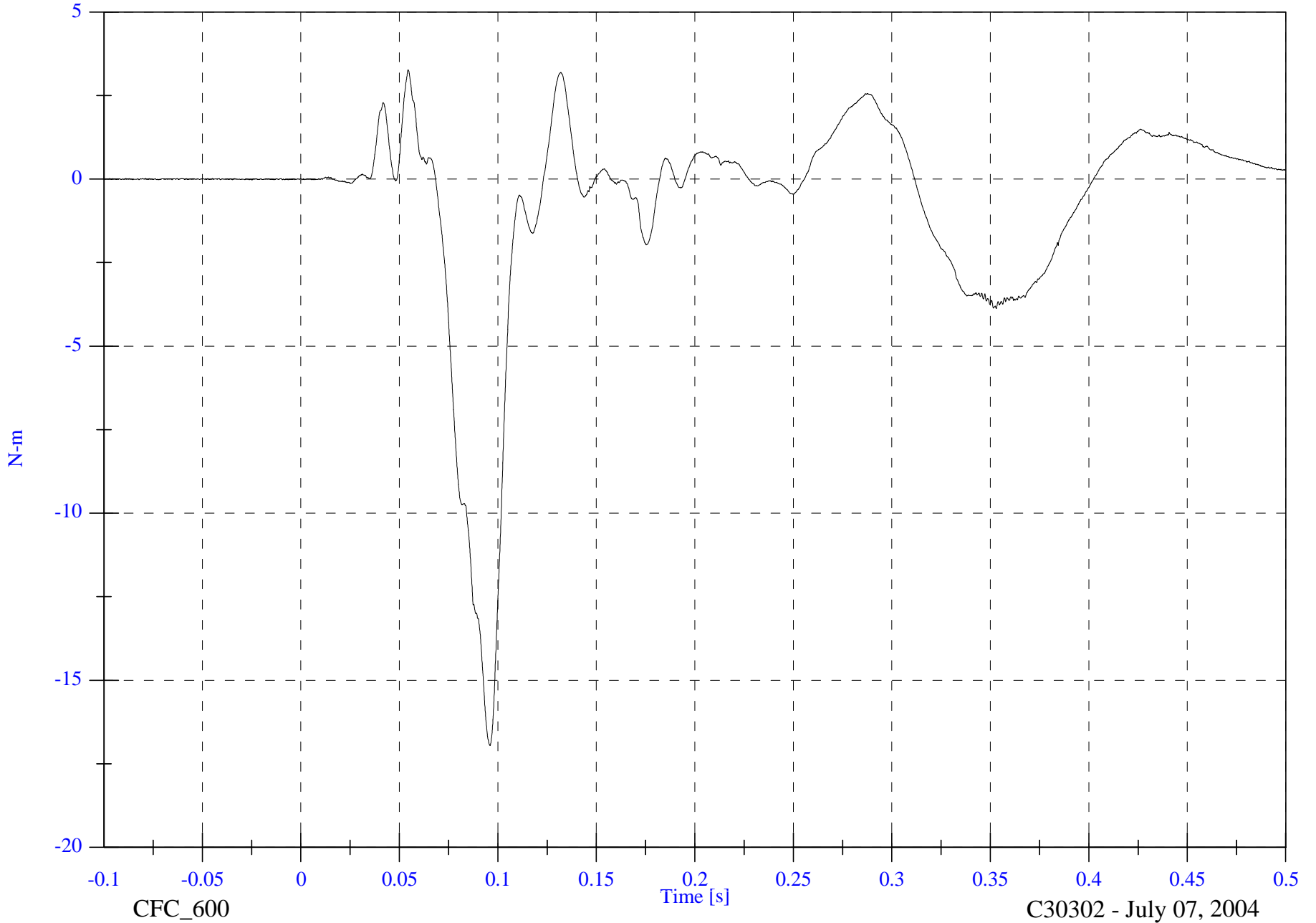
FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Upper Neck Mx

Max: 3.3 [N-m] at 0.054 [s]
Min: -17.0 [N-m] at 0.096 [s]

B-63

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

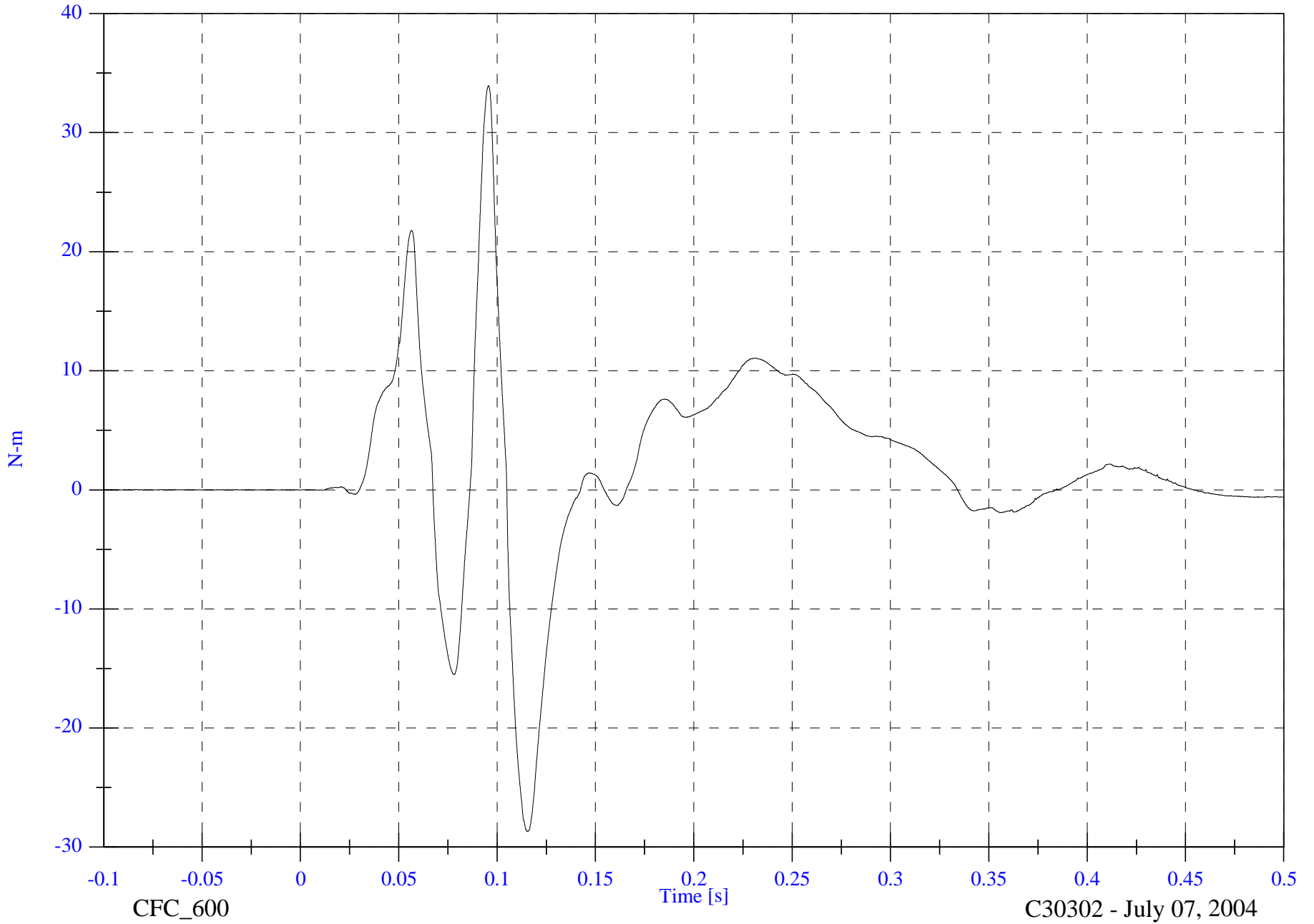
V2P3 Upper Neck My

Max: 33.9 [N-m] at 0.096 [s]

Min: -28.7 [N-m] at 0.115 [s]

B-64

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

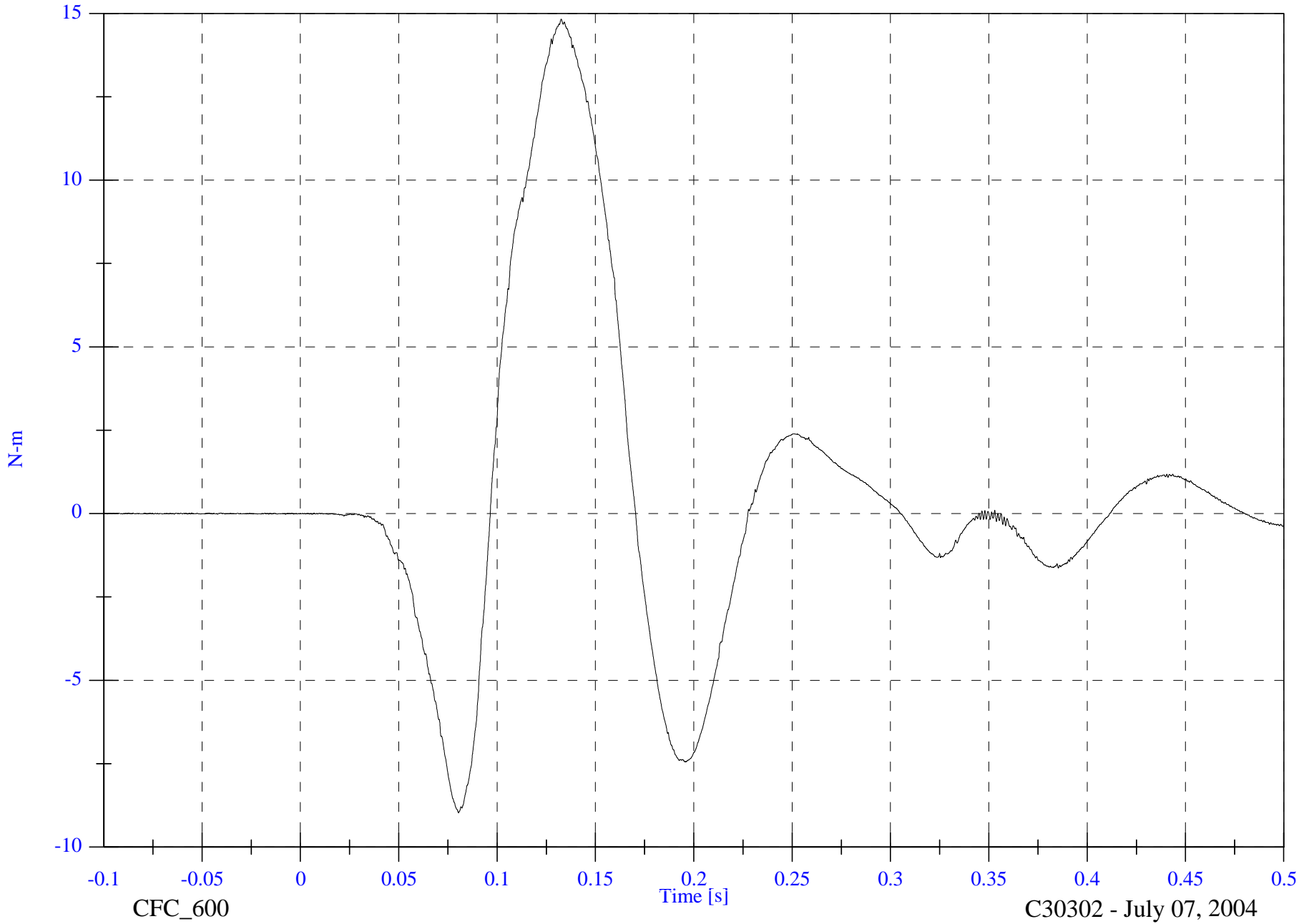
Max: 14.8 [N-m] at 0.133 [s]

V2P3 Upper Neck Mz

Min: -9.0 [N-m] at 0.080 [s]

B-65

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

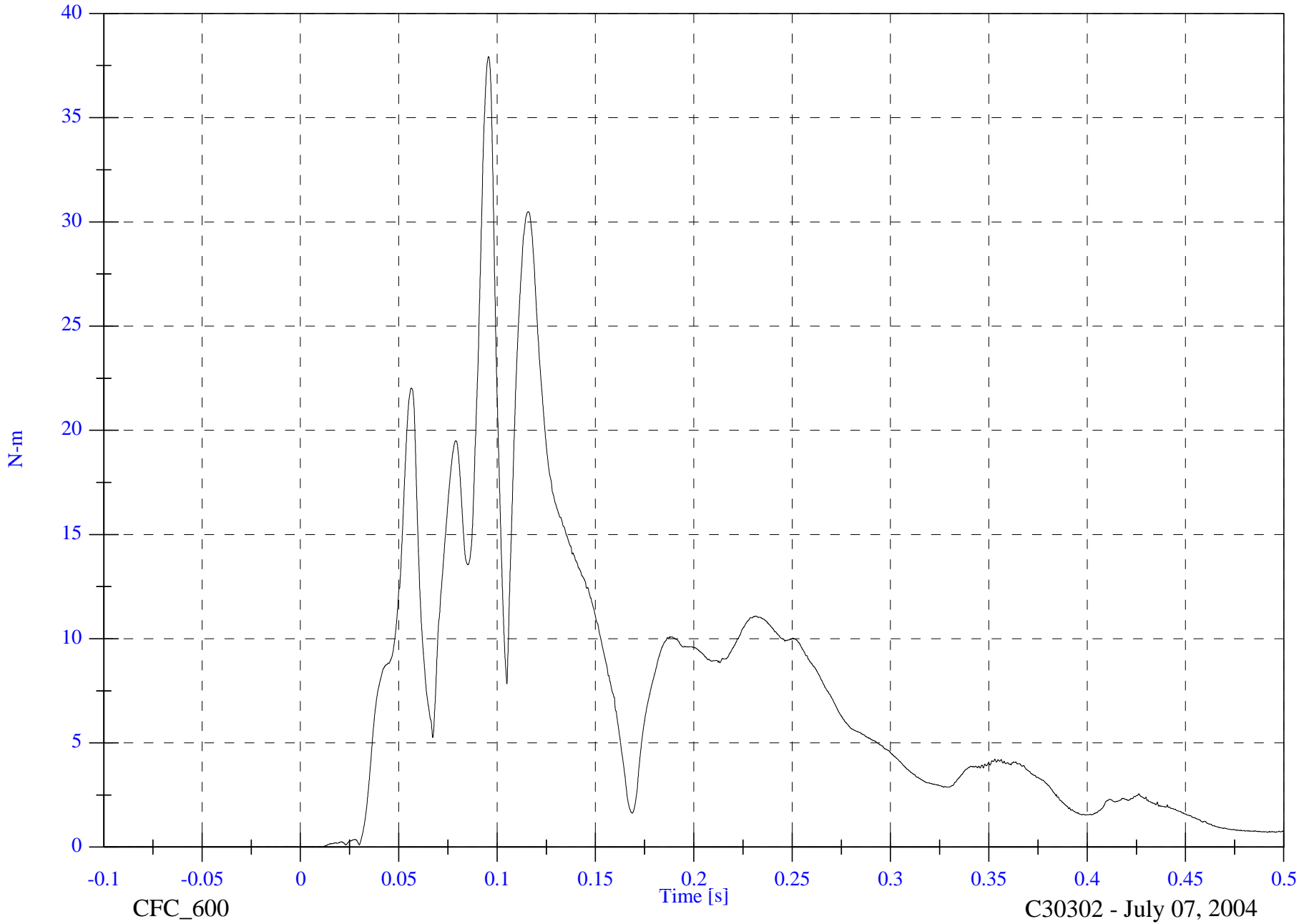
V2P3 Upper Neck M Resultant

Max: 37.9 [N-m] at 0.096 [s]

Min: 0.0 [N-m] at -0.039 [s]

B-66

8655-F301-23R



CFC_600

Time [s]

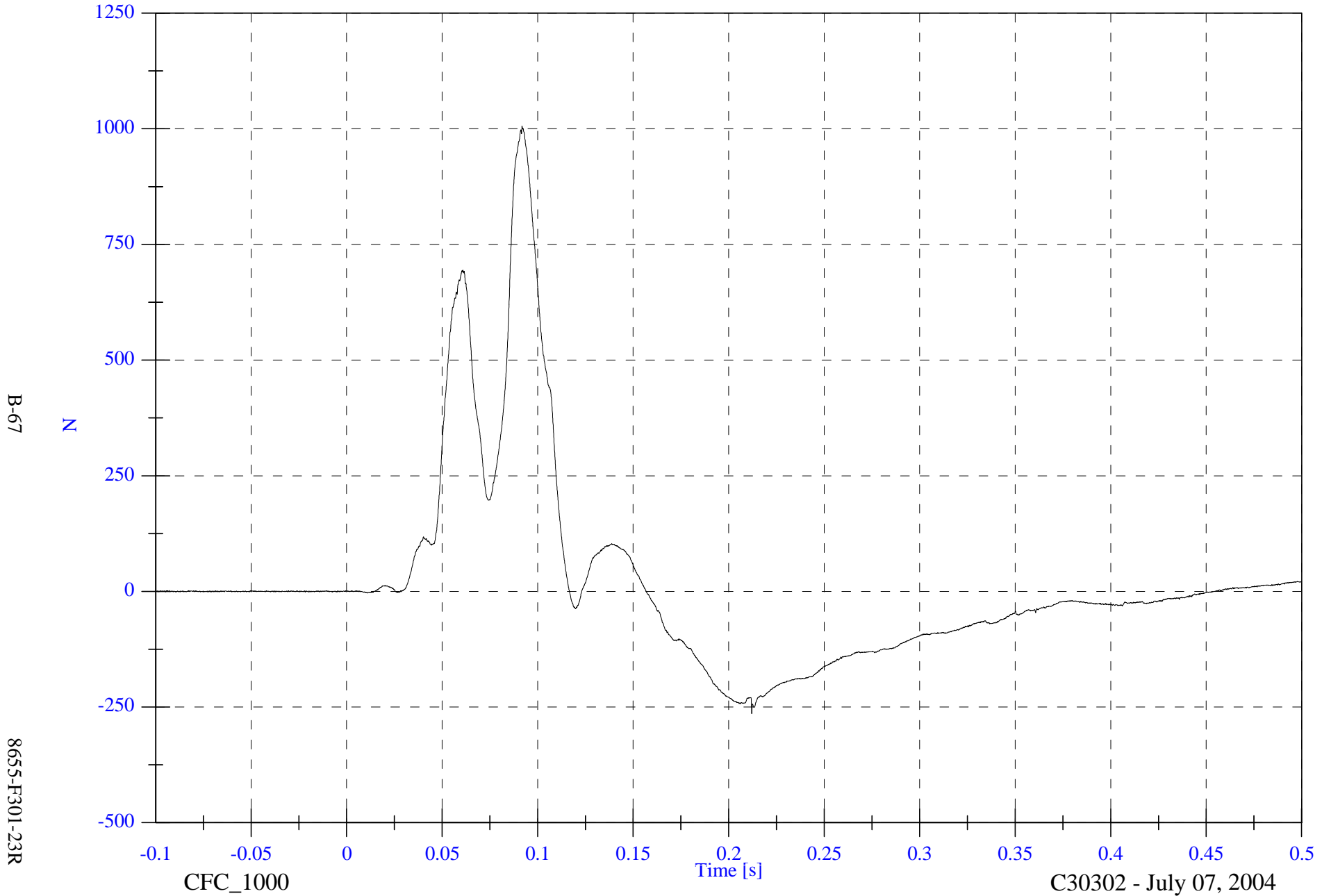
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Lower Neck Fx

Max: 1006.1 [N] at 0.092 [s]

Min: -264.2 [N] at 0.212 [s]



B-67

8655-F301-23R

CFC_1000

Time [s]

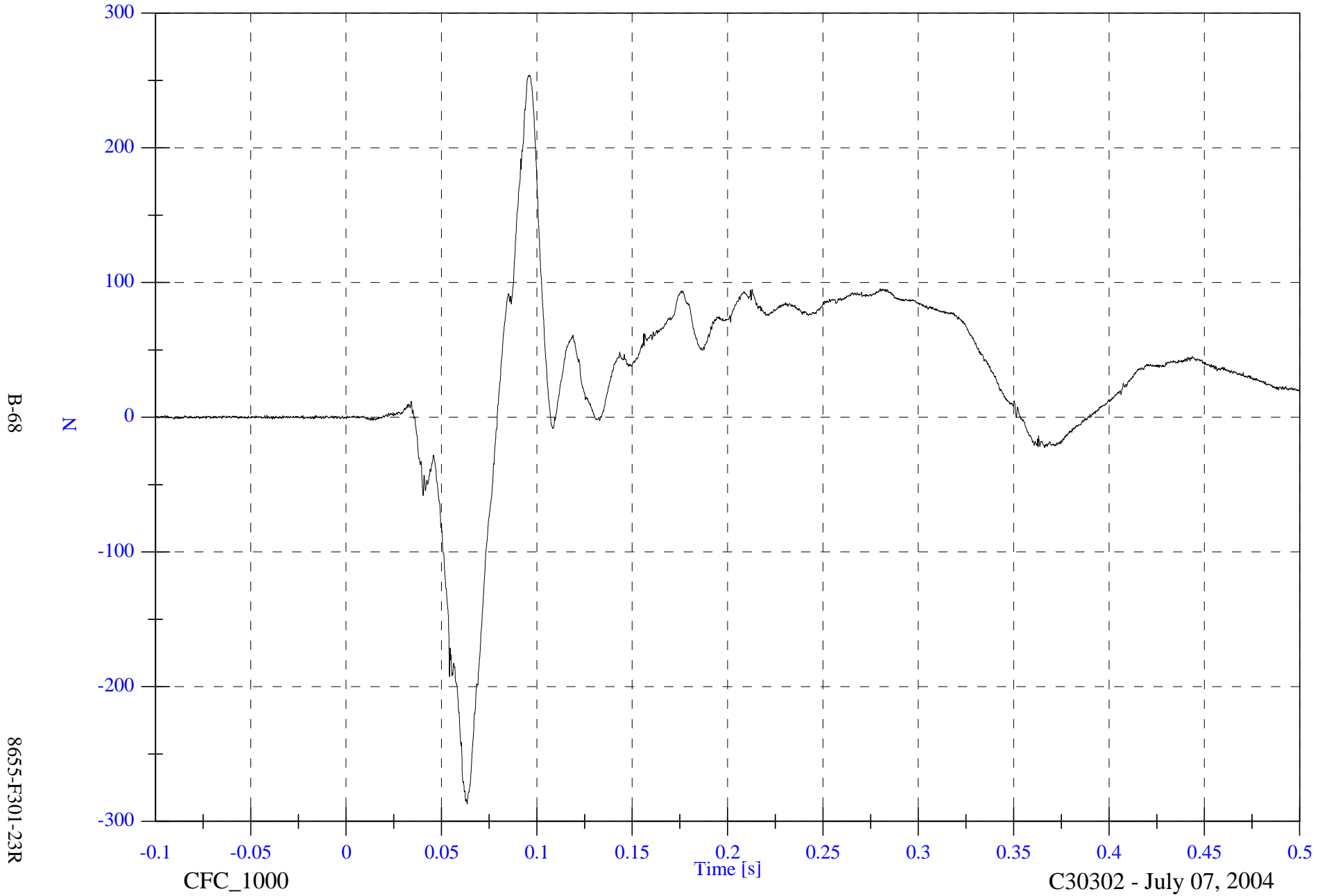
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Lower Neck Fy

Max: 254.0 [N] at 0.096 [s]

Min: -287.0 [N] at 0.063 [s]



B-68

8655-F301-23R

CFC_1000

Time [s]

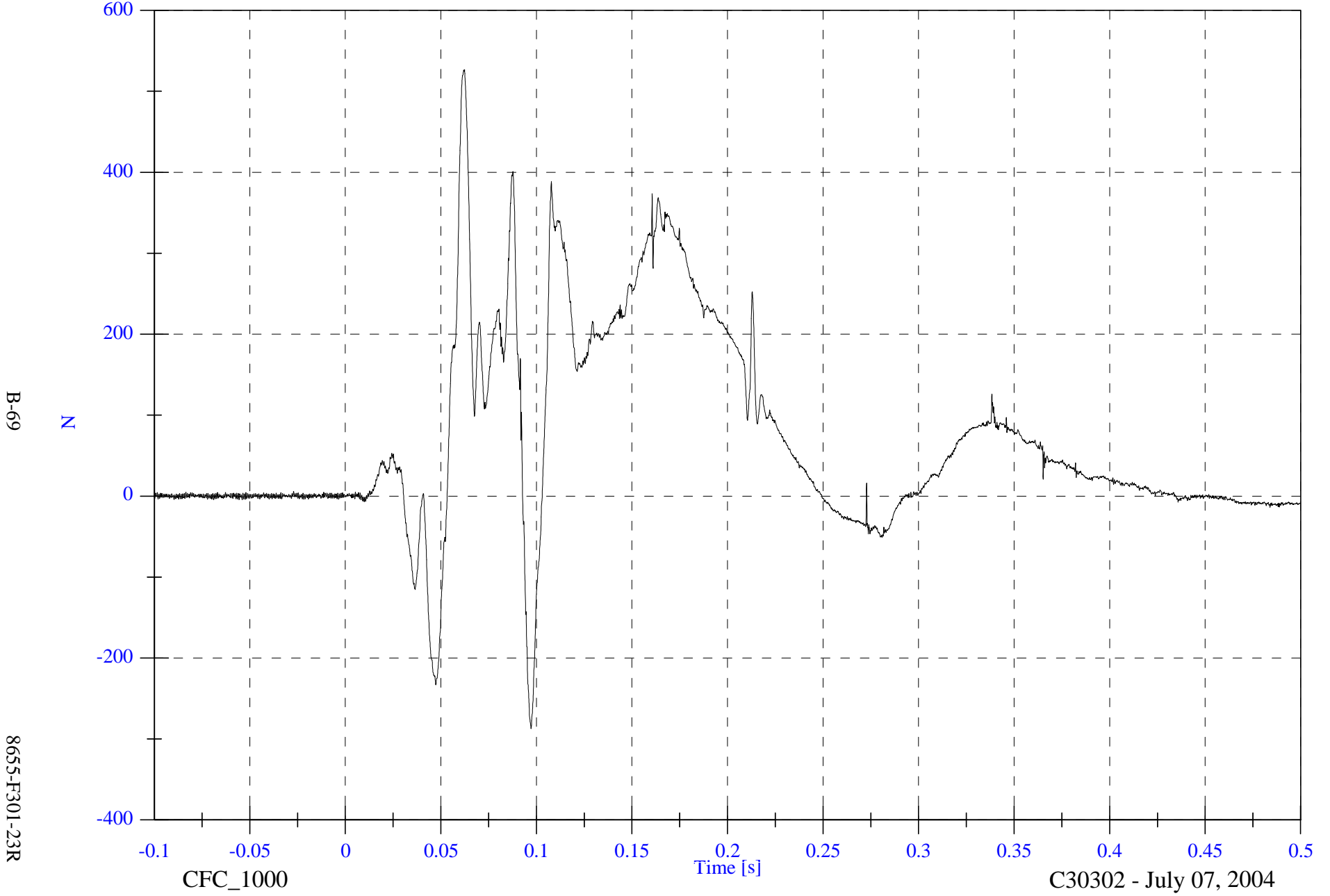
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

Max: 526.8 [N] at 0.062 [s]

V2P3 Lower Neck Fz

Min: -287.4 [N] at 0.097 [s]



B-69

8655-F301-23R

CFC_1000

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

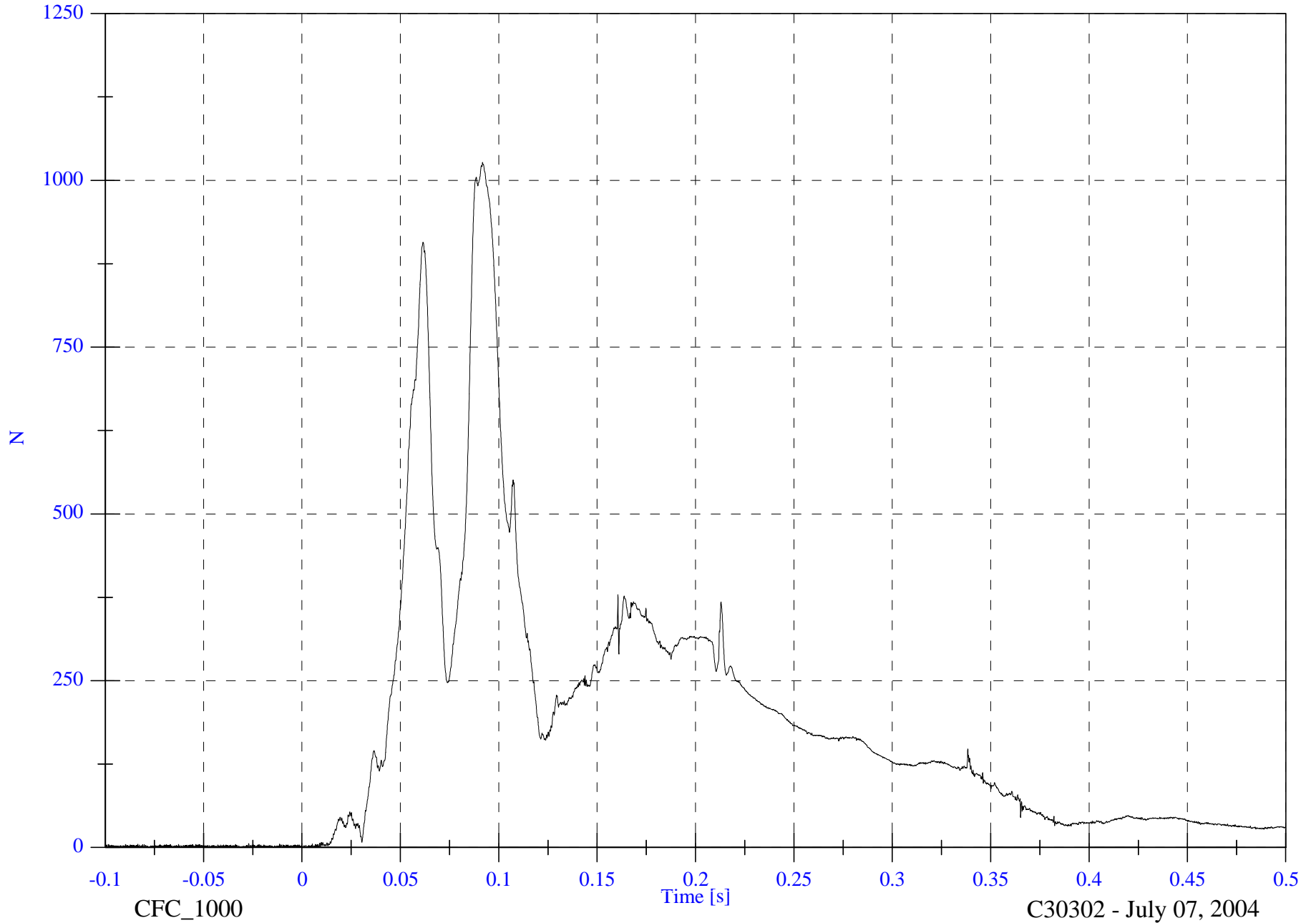
V2P3 Lower Neck F Resultant

Max: 1027.1 [N] at 0.092 [s]

Min: 0.1 [N] at -0.036 [s]

B-70

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

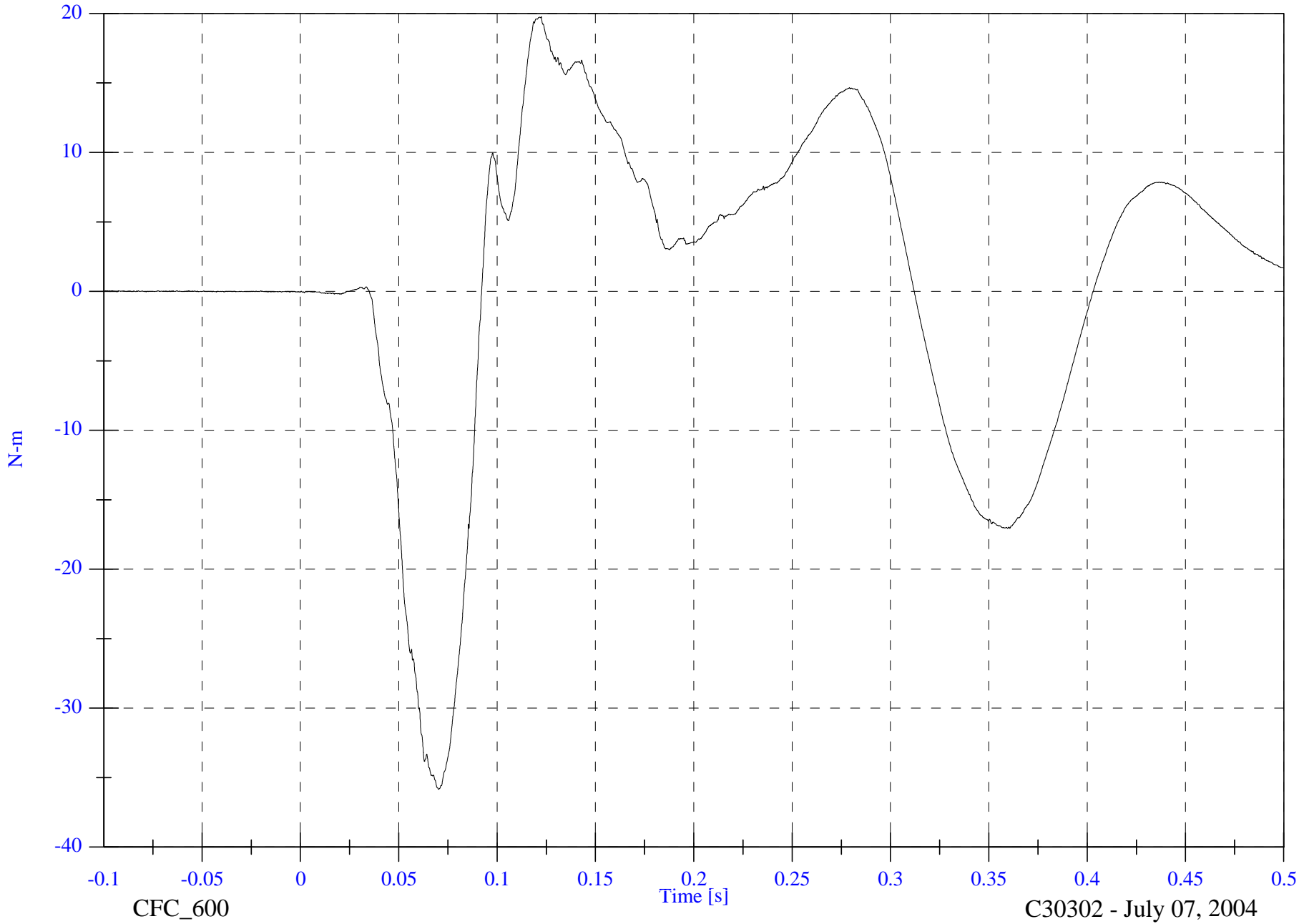
V2P3 Lower Neck Mx

Max: 19.8 [N-m] at 0.122 [s]

Min: -35.8 [N-m] at 0.070 [s]

B-71

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

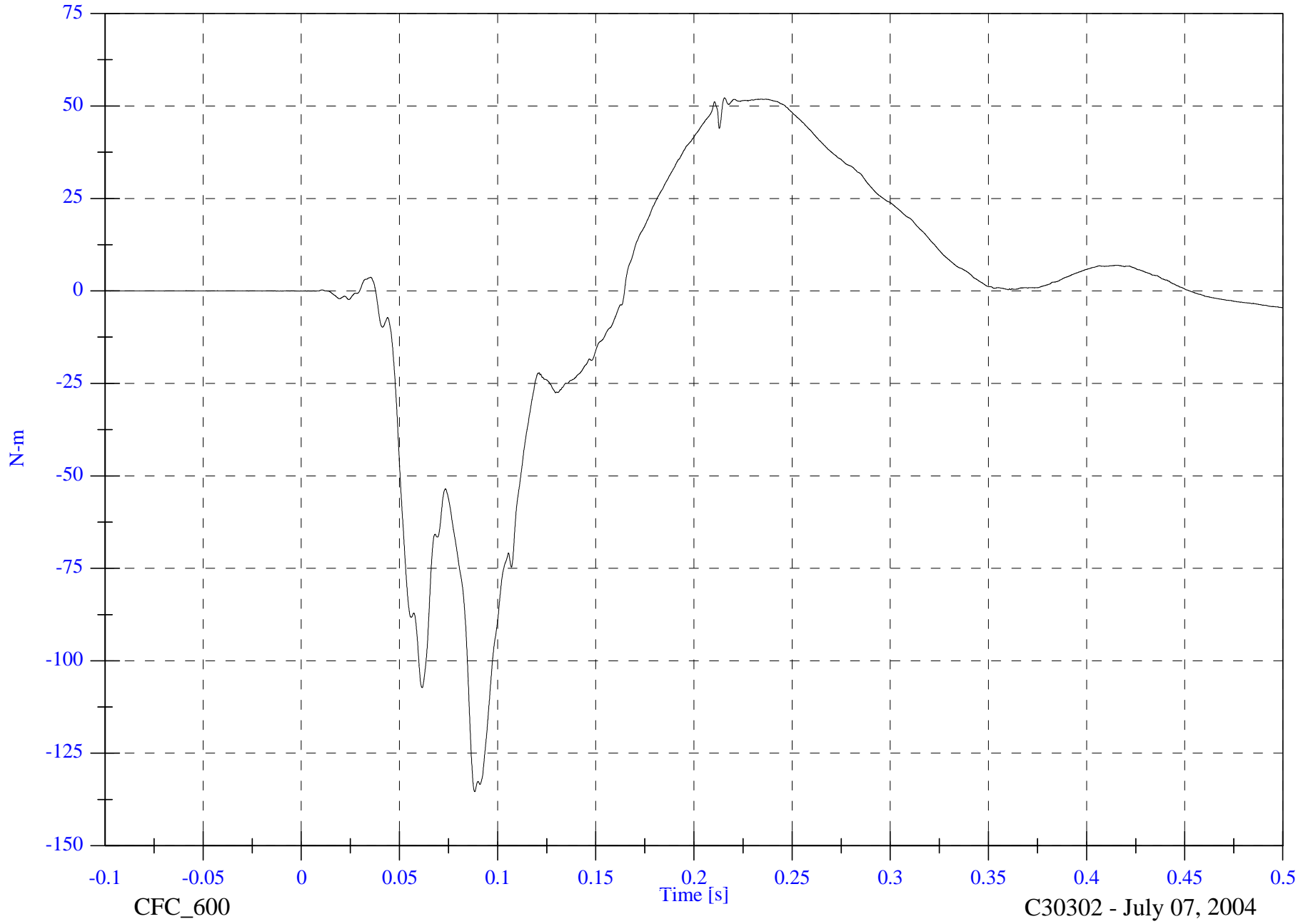
V2P3 Lower Neck My

Max: 52.2 [N-m] at 0.216 [s]

Min: -135.4 [N-m] at 0.088 [s]

B-72

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

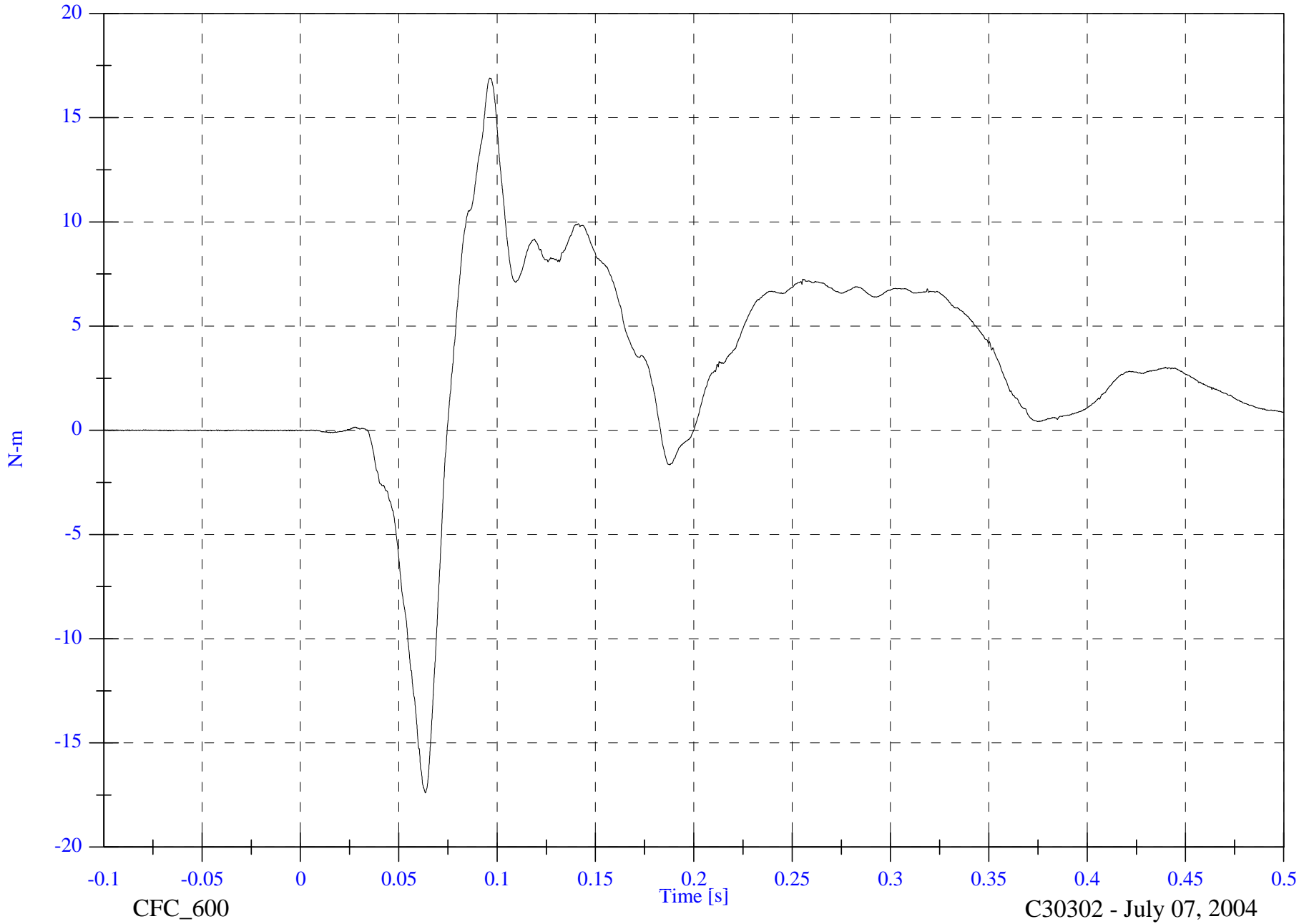
V2P3 Lower Neck Mz

Max: 16.9 [N-m] at 0.096 [s]

Min: -17.4 [N-m] at 0.064 [s]

B-73

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

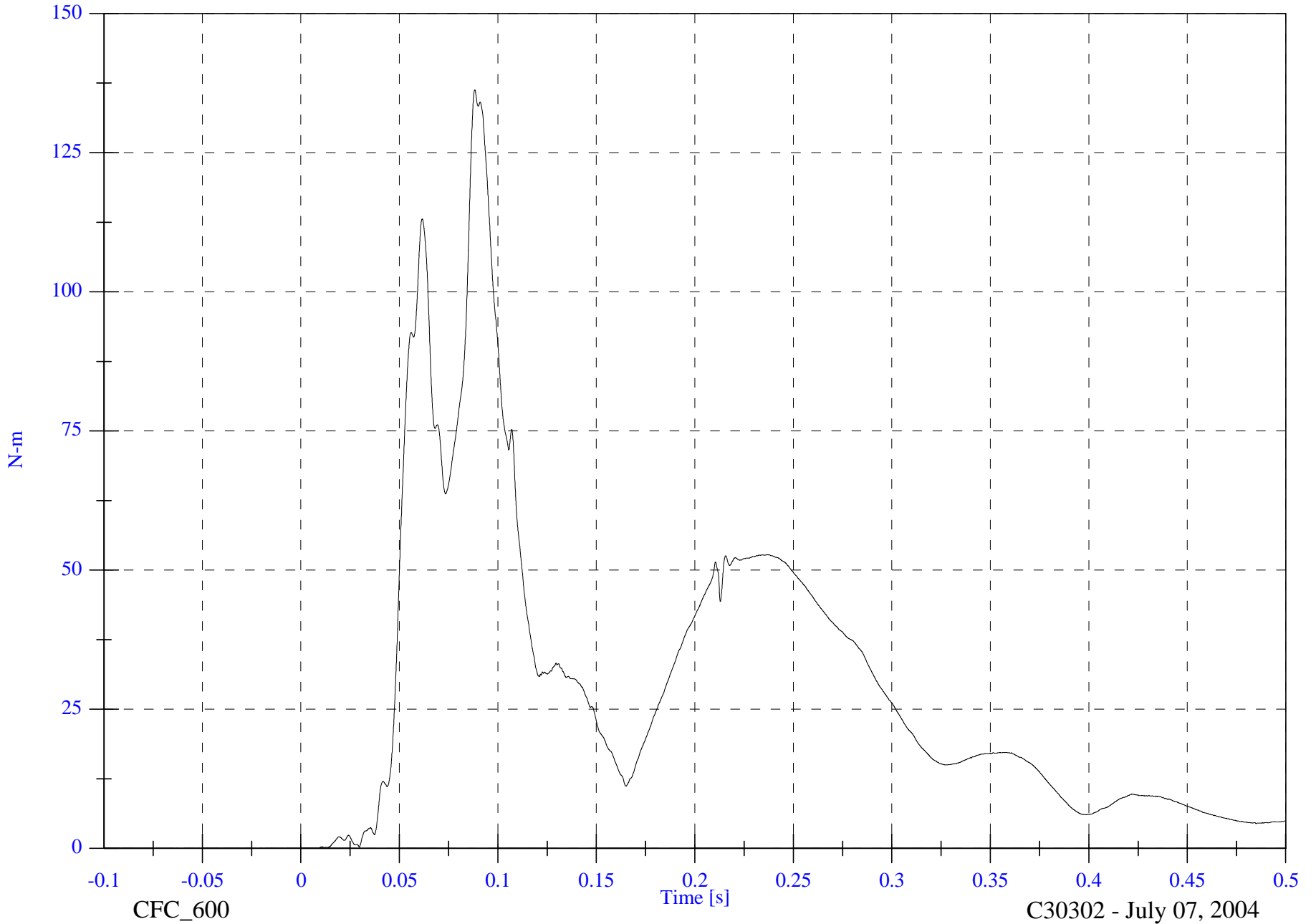
V2P3 Lower Neck M Resultant

Max: 136.3 [N-m] at 0.088 [s]

Min: 0.0 [N-m] at -0.046 [s]

B-74

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

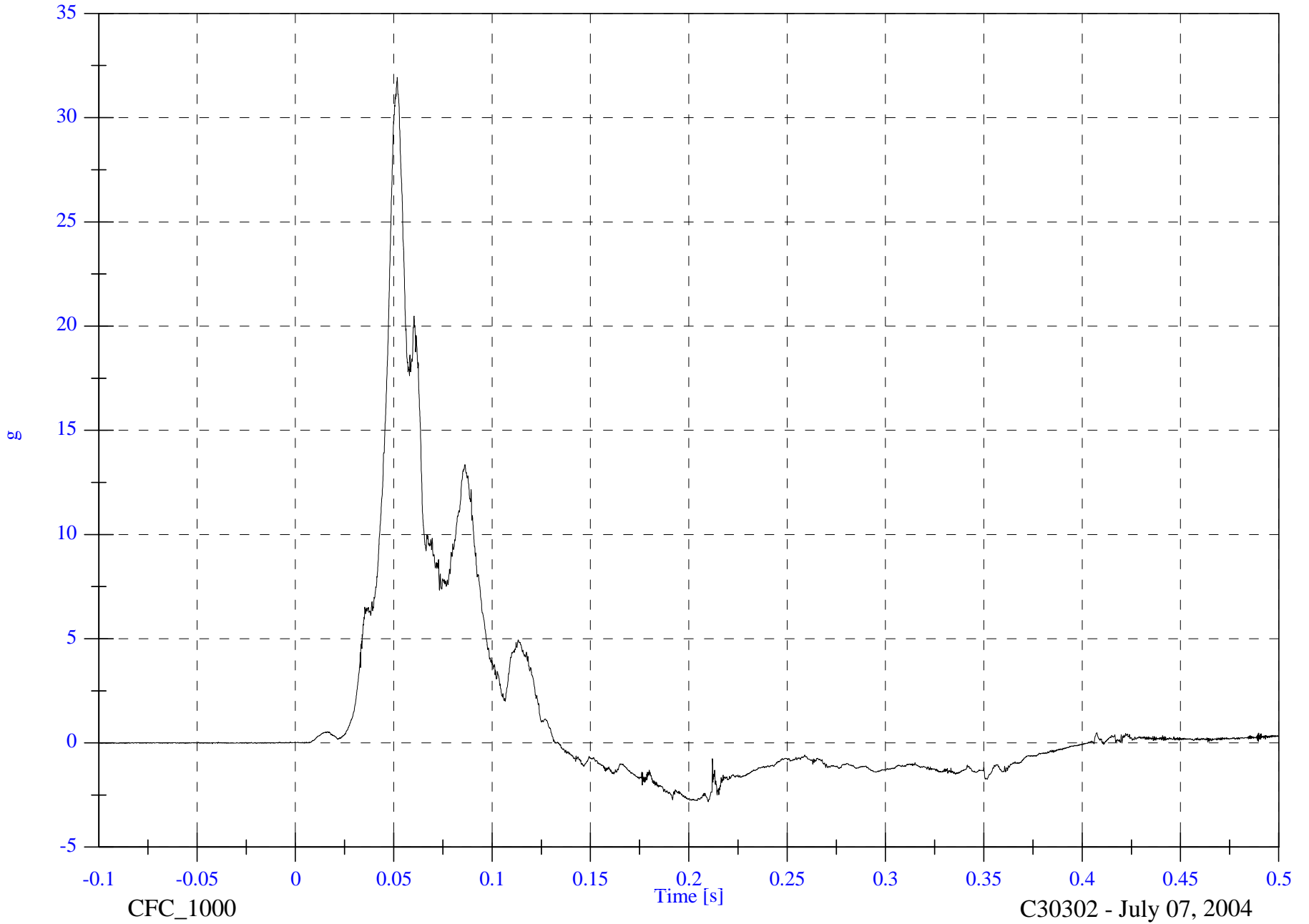
V2P3 Lower Neck x

Max: 31.9 [g] at 0.052 [s]

Min: -2.8 [g] at 0.210 [s]

B-75

8655-F301-23R



CFC_1000

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

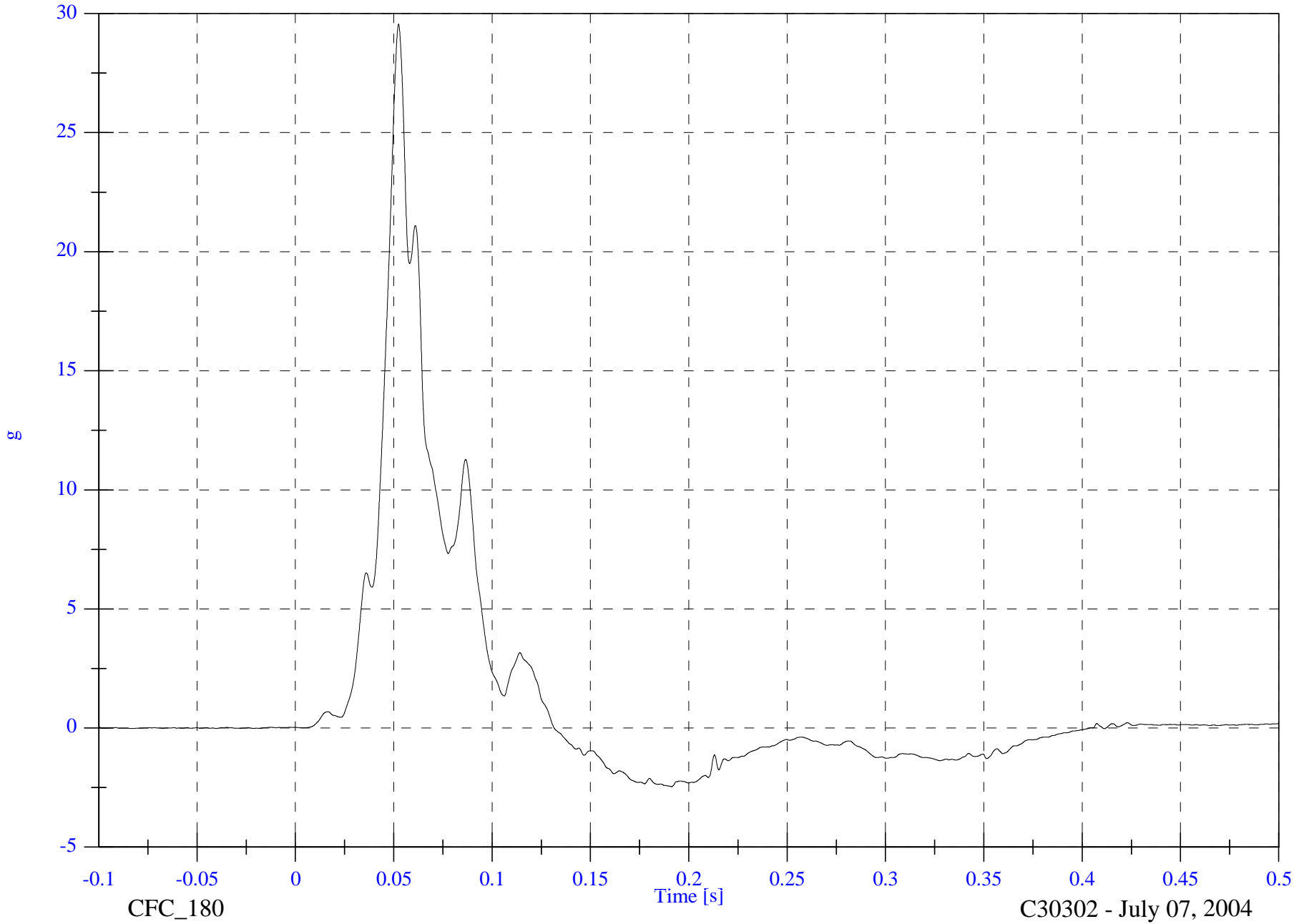
V2P3 Chest x

Max: 29.6 [g] at 0.052 [s]

Min: -2.5 [g] at 0.191 [s]

B-76

8655-F301-23R

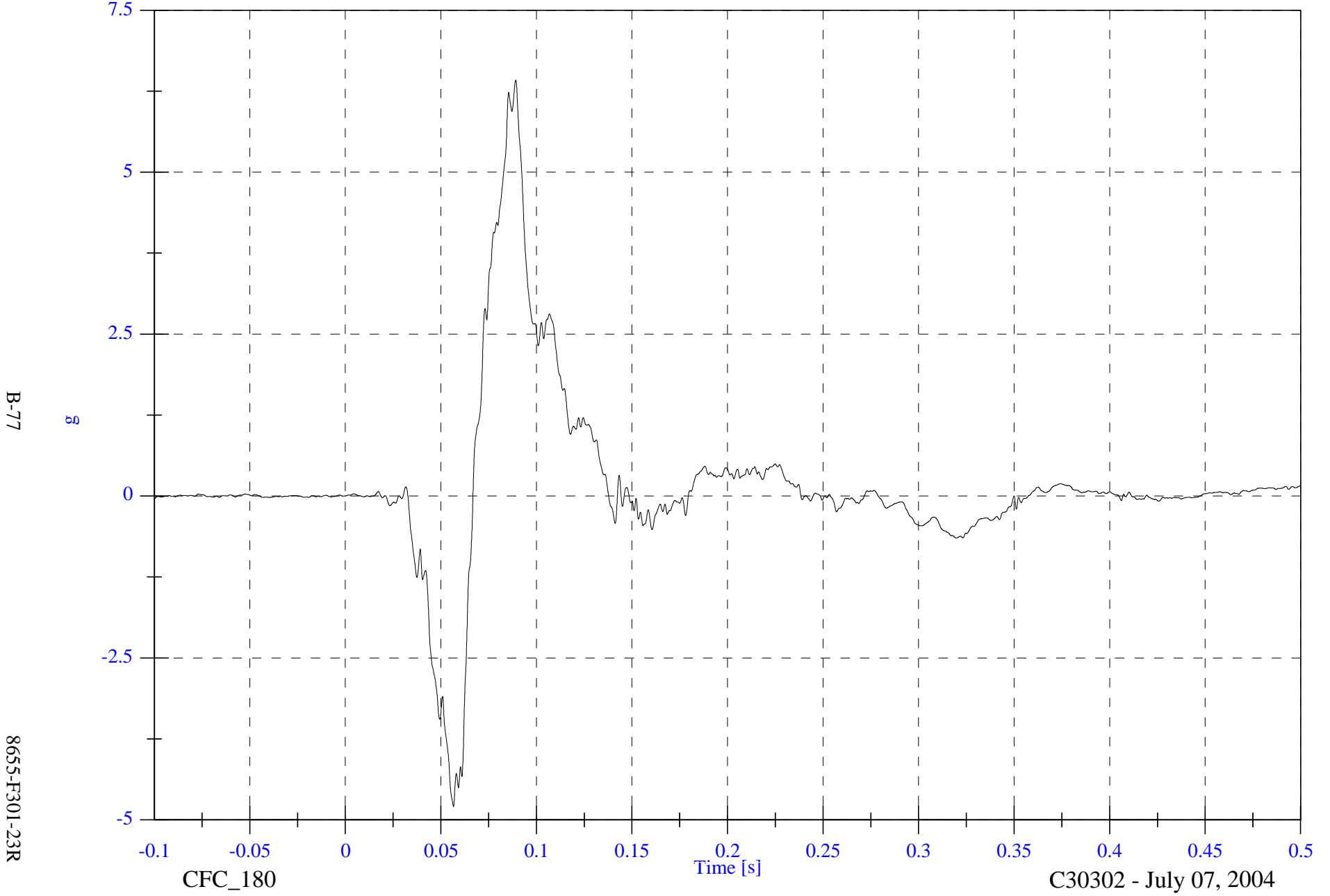


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Chest y

Max: 6.4 [g] at 0.089 [s]

Min: -4.8 [g] at 0.057 [s]

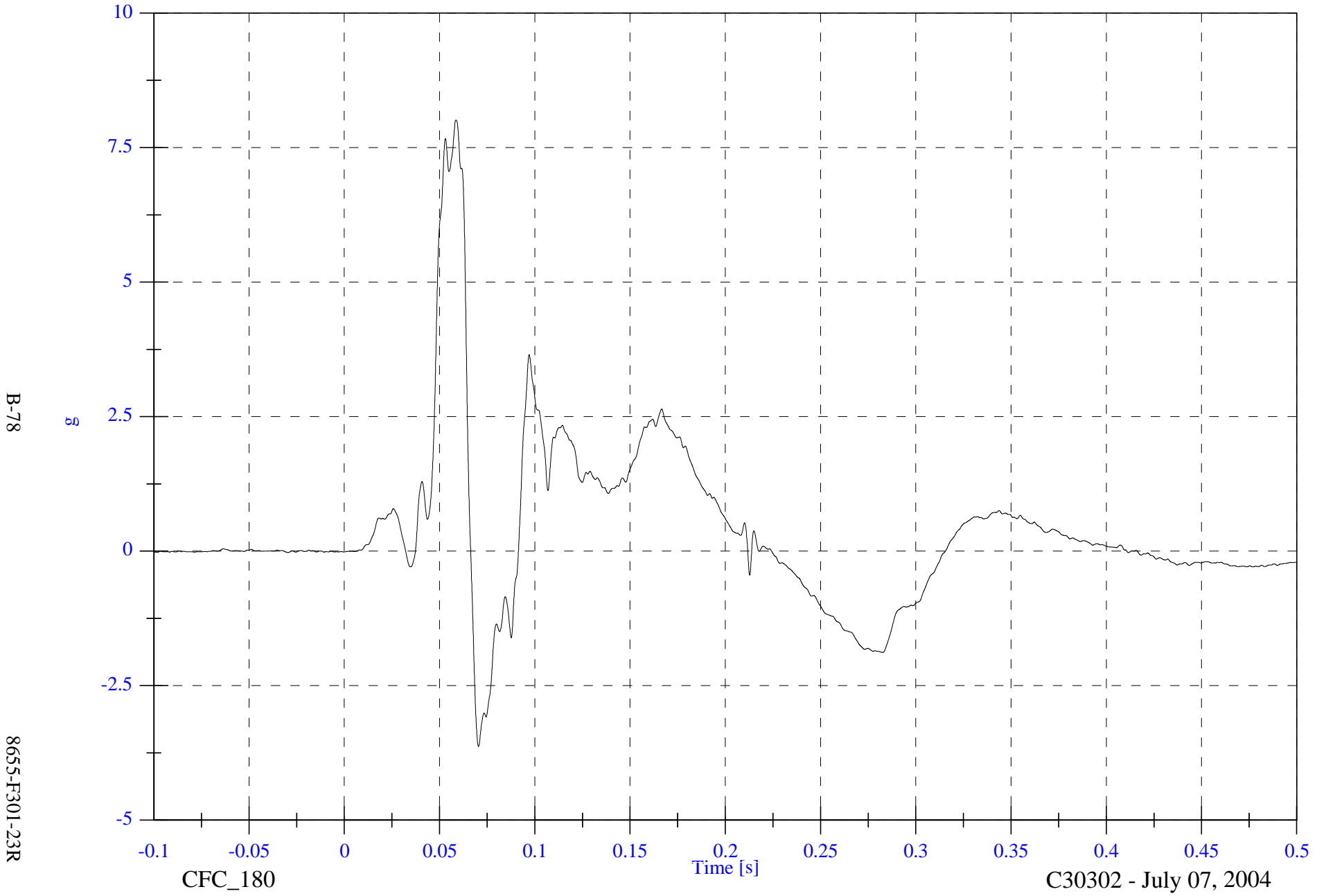


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Chest z

Max: 8.0 [g] at 0.059 [s]

Min: -3.6 [g] at 0.070 [s]



FMVSS301 Test 9 - 2004 Jeep Liberty

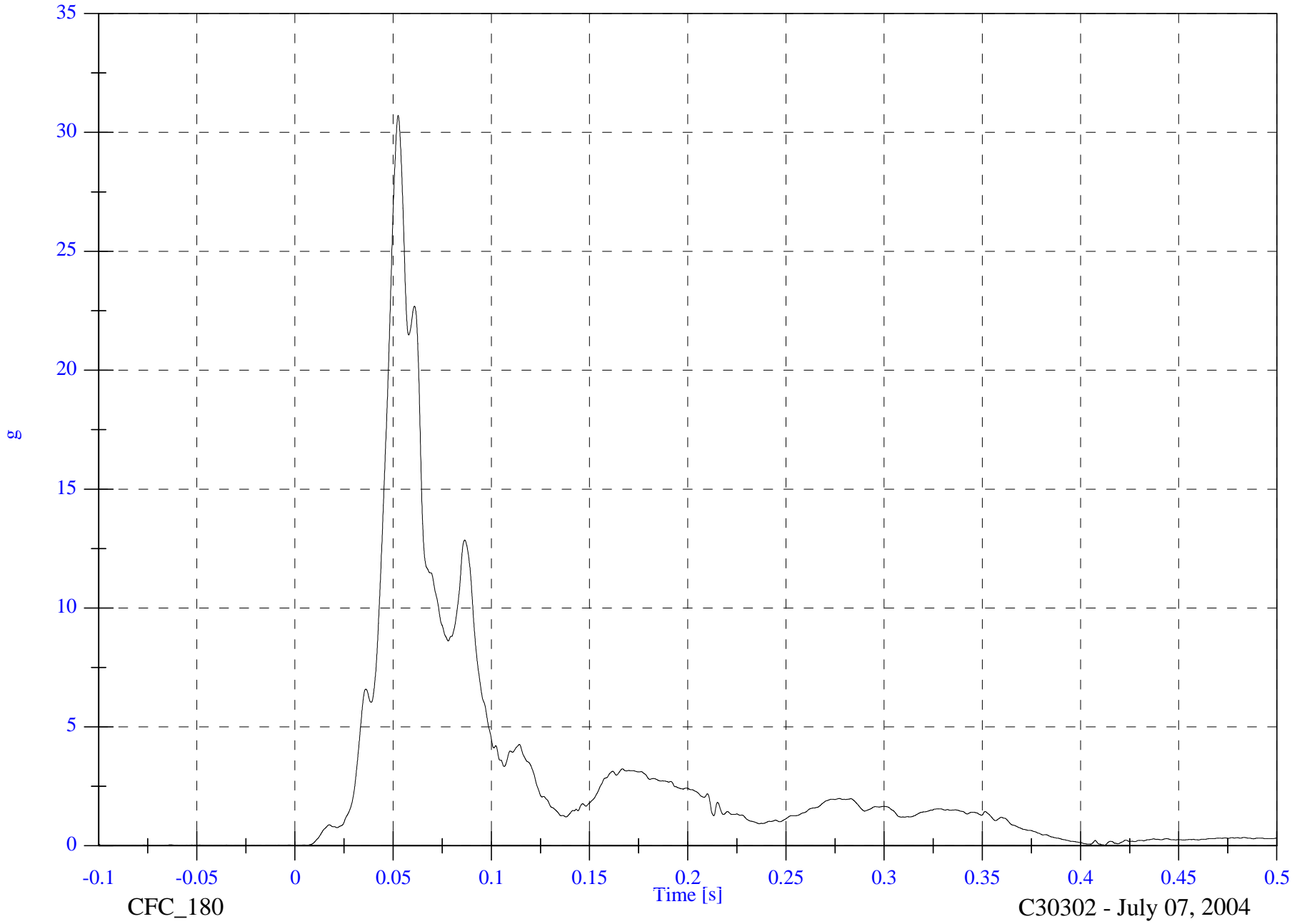
V2P3 Chest Resultant

Max: 30.7 [g] at 0.053 [s]

Min: 0.0 [g] at -0.032 [s]

B-79

8655-F301-23R



CFC_180

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

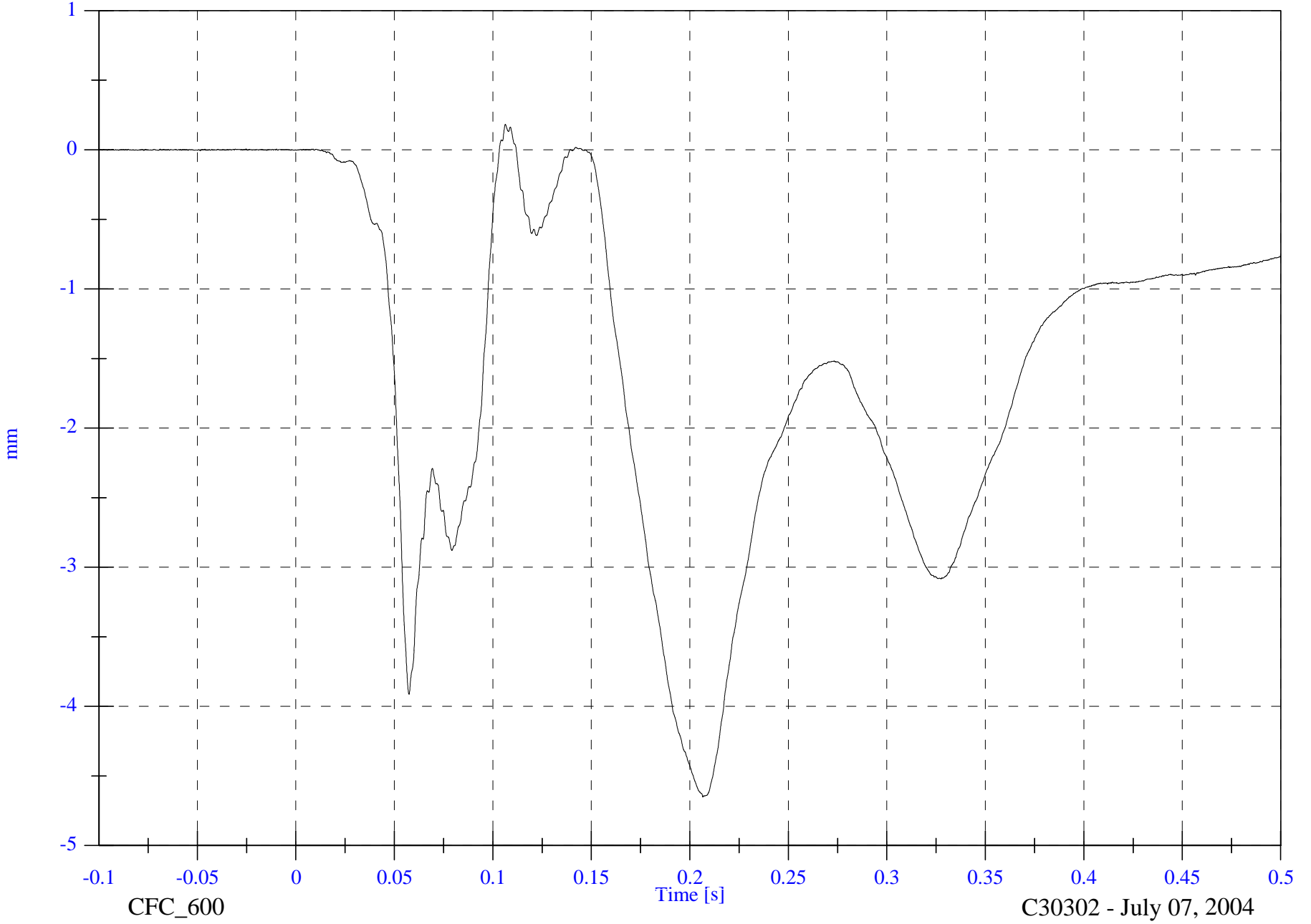
V2P3 Chest Compression

Max: 0.2 [mm] at 0.106 [s]

Min: -4.7 [mm] at 0.207 [s]

B-80

8655-F301-23R



CFC_600

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

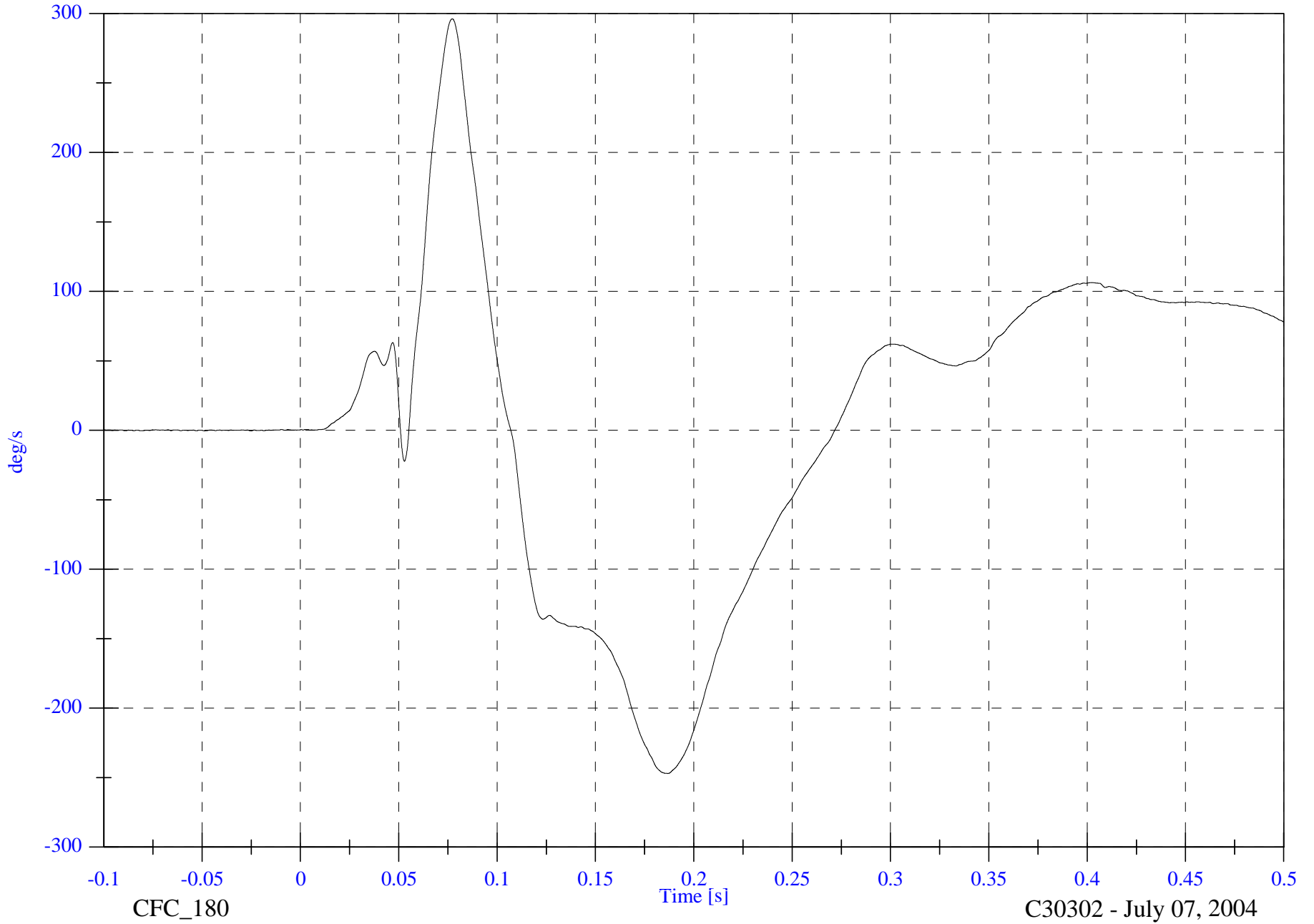
V2P3 Chest AVy

Max: 296.2 [deg/s] at 0.077 [s]

Min: -247.0 [deg/s] at 0.187 [s]

B-81

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

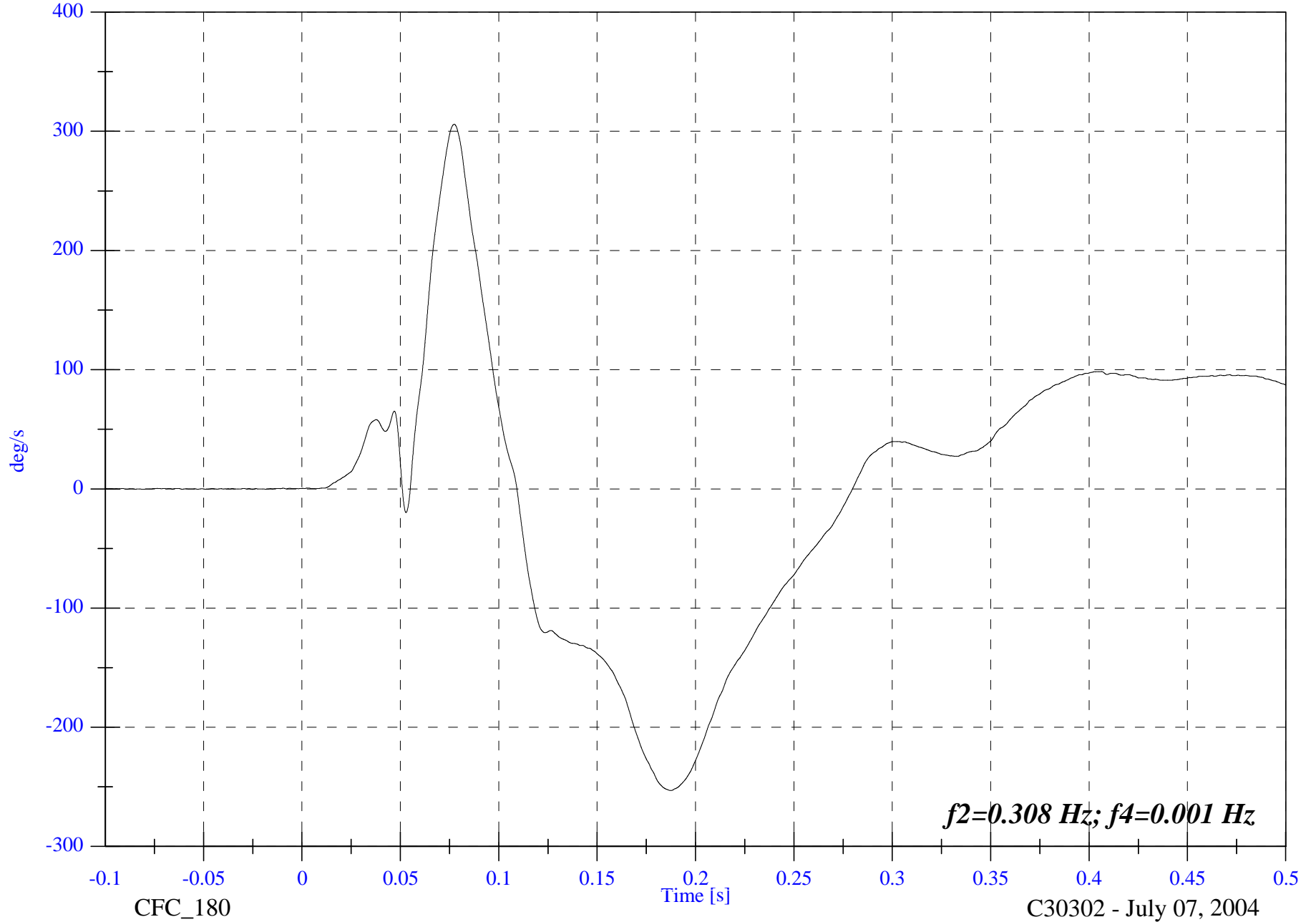
V2P3 Chest Comp AVy

Max: 305.8 [deg/s] at 0.077 [s]

Min: -253.1 [deg/s] at 0.187 [s]

B-82

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

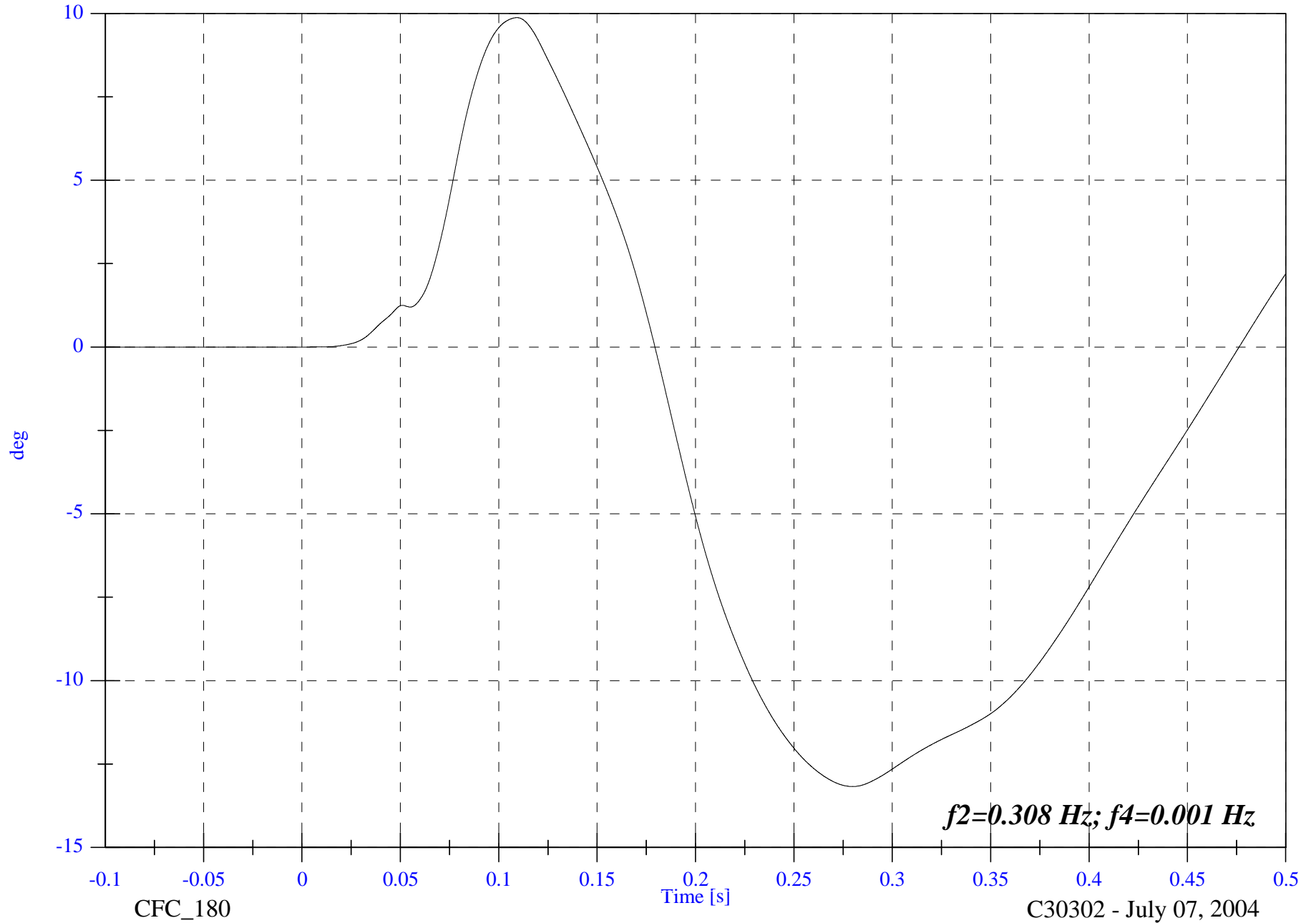
V2P3 Chest Comp ADy

Max: 9.9 [deg] at 0.109 [s]

Min: -13.2 [deg] at 0.280 [s]

B-83

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

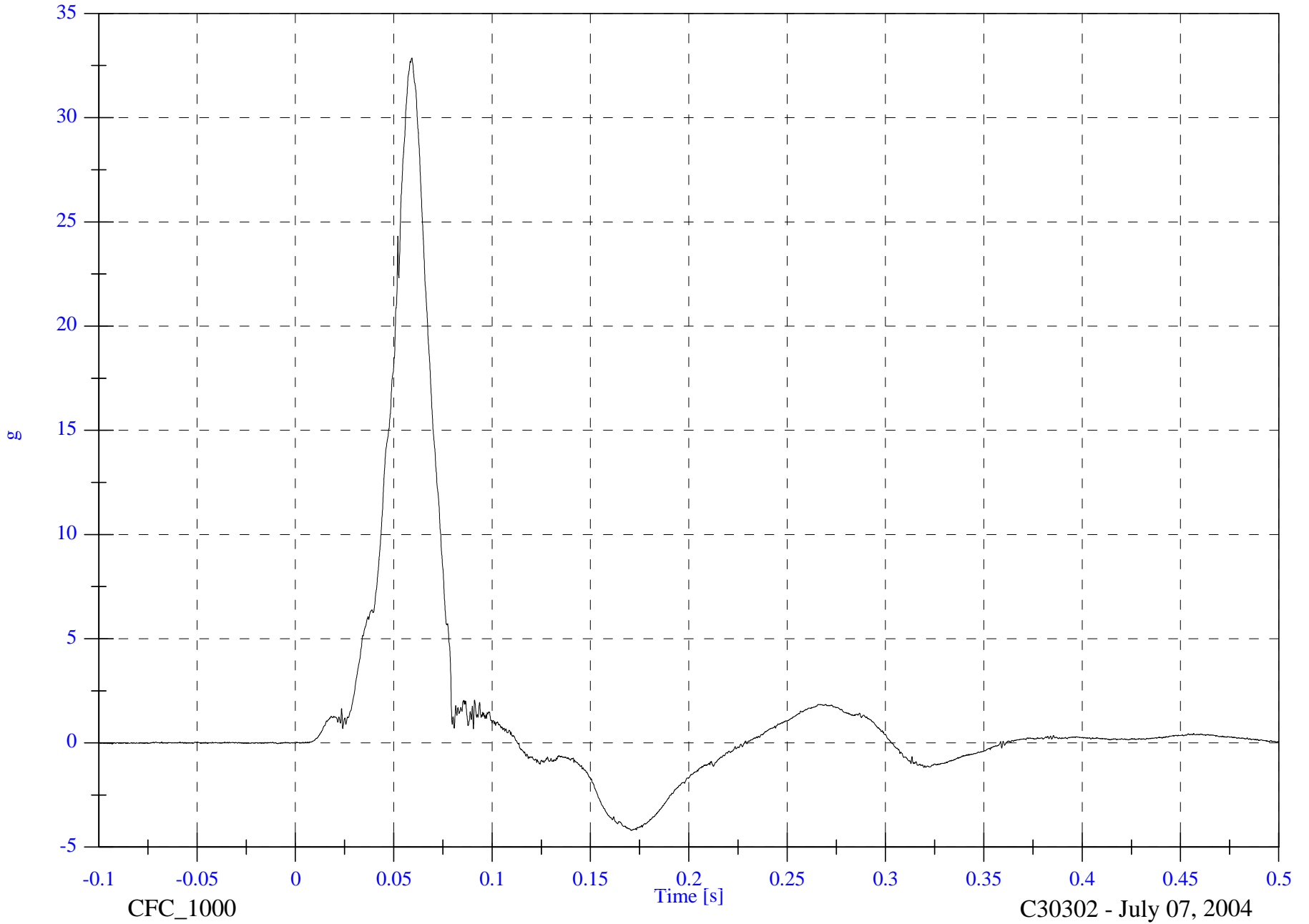
V2P3 Pelvic x

Max: 32.9 [g] at 0.059 [s]

Min: -4.2 [g] at 0.171 [s]

B-84

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

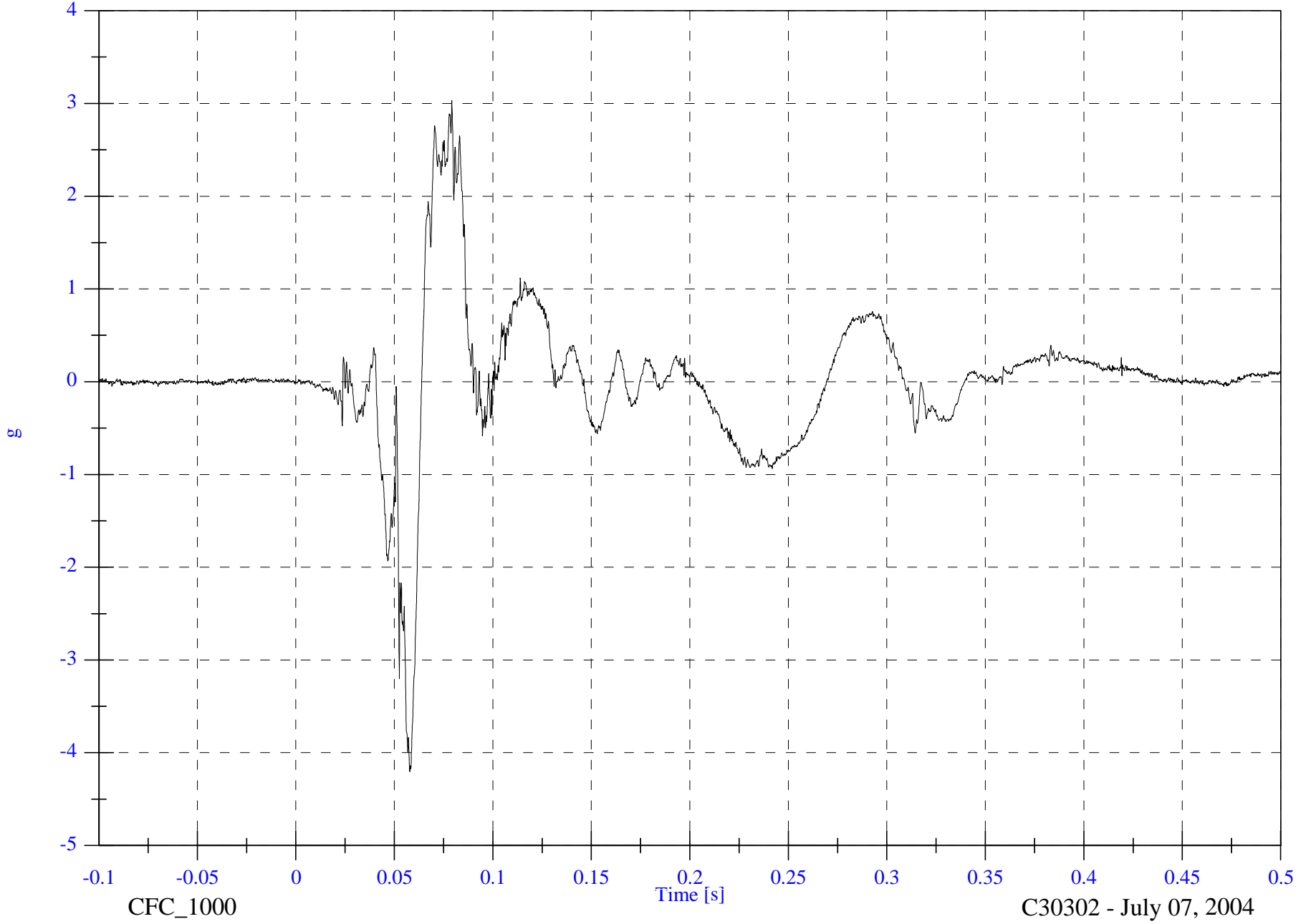
V2P3 Pelvic y

Max: 3.0 [g] at 0.079 [s]

Min: -4.2 [g] at 0.058 [s]

B-85

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

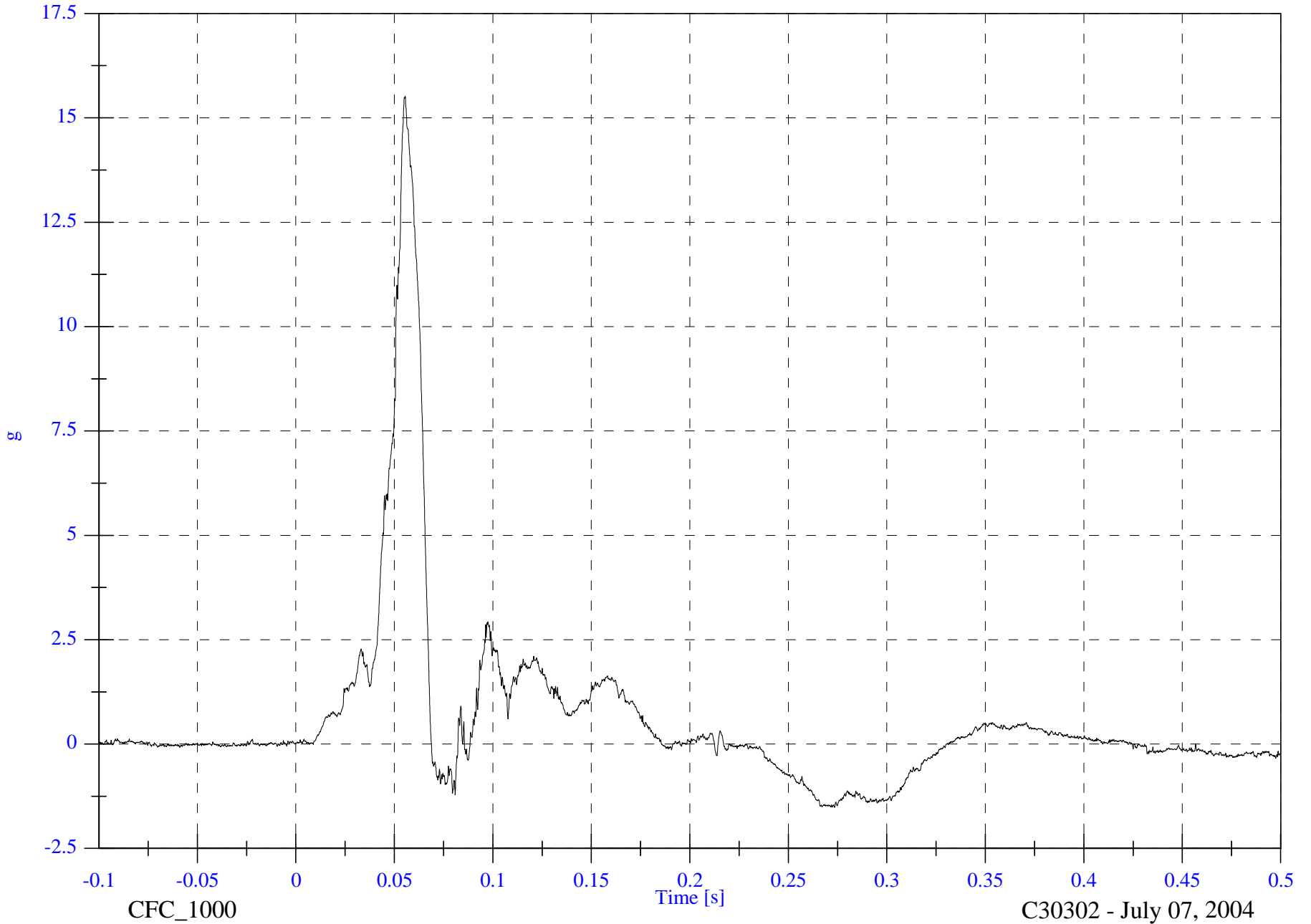
V2P3 Pelvic z

Max: 15.5 [g] at 0.055 [s]

Min: -1.5 [g] at 0.273 [s]

B-86

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

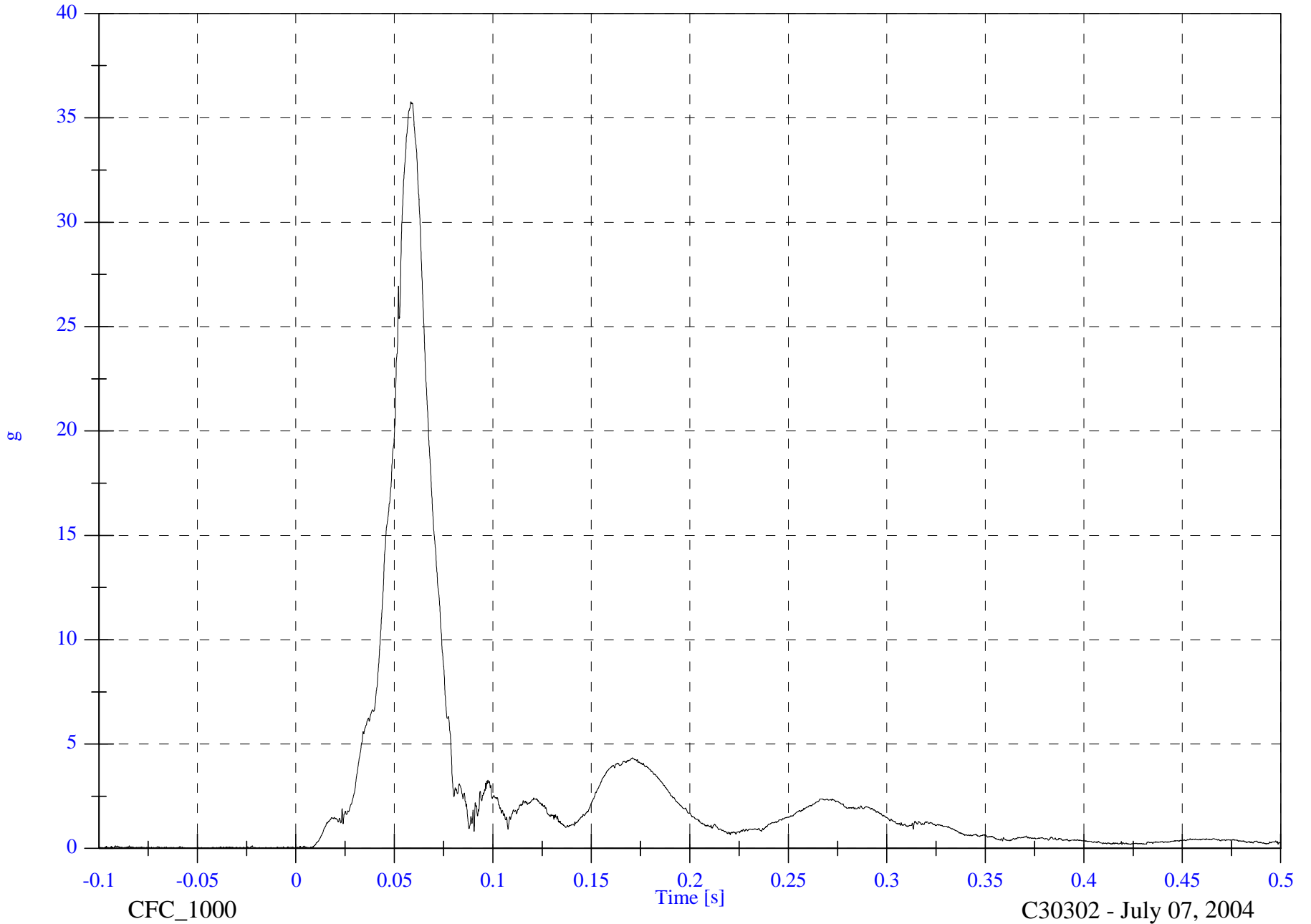
V2P3 Pelvic Resultant

Max: 35.8 [g] at 0.058 [s]

Min: 0.0 [g] at -0.011 [s]

B-87

8655-F301-23R



CFC_1000

Time [s]

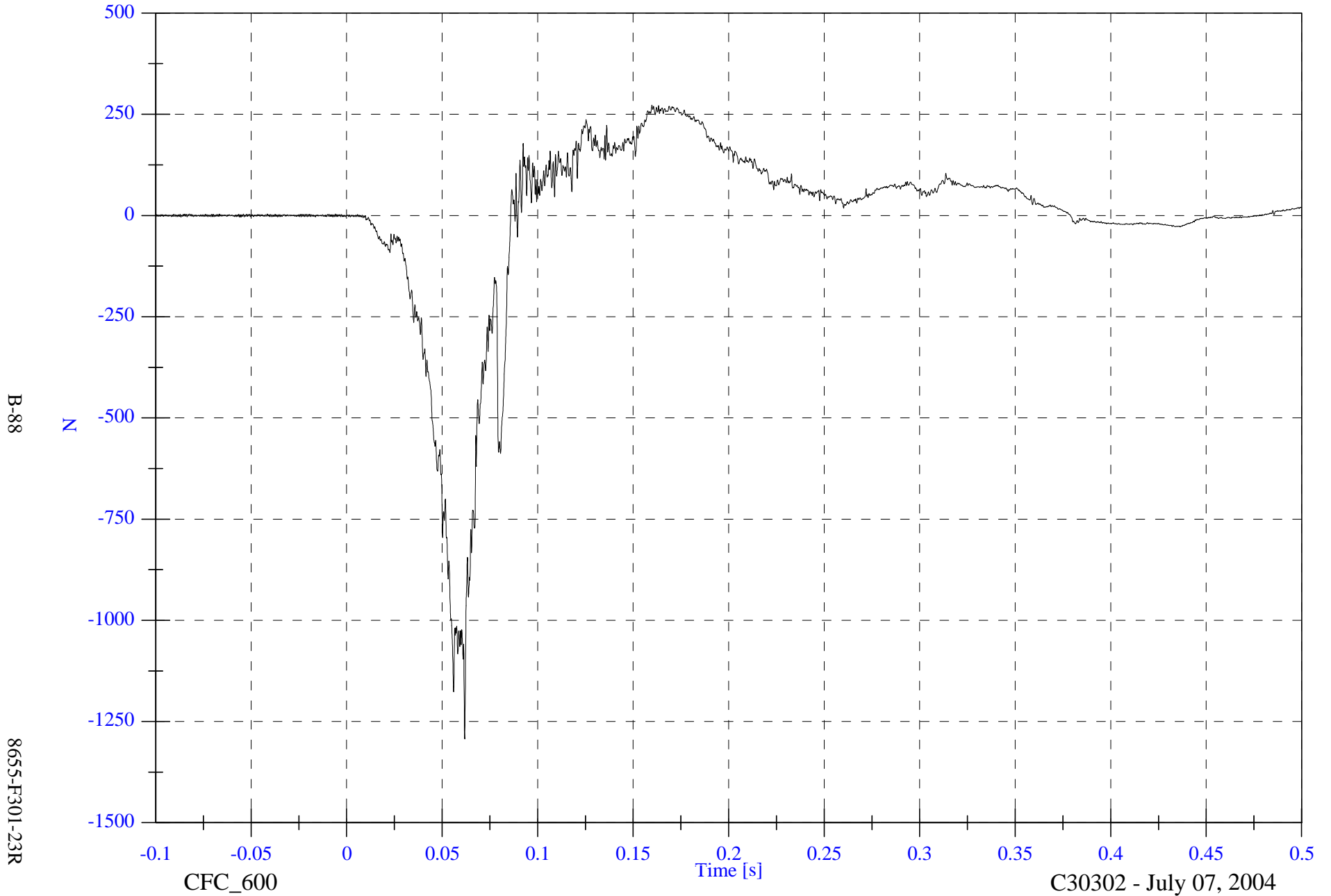
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Left Femur

Max: 272.7 [N] at 0.160 [s]

Min: -1293.2 [N] at 0.062 [s]



B-88

8655-F301-23R

CFC_600

Time [s]

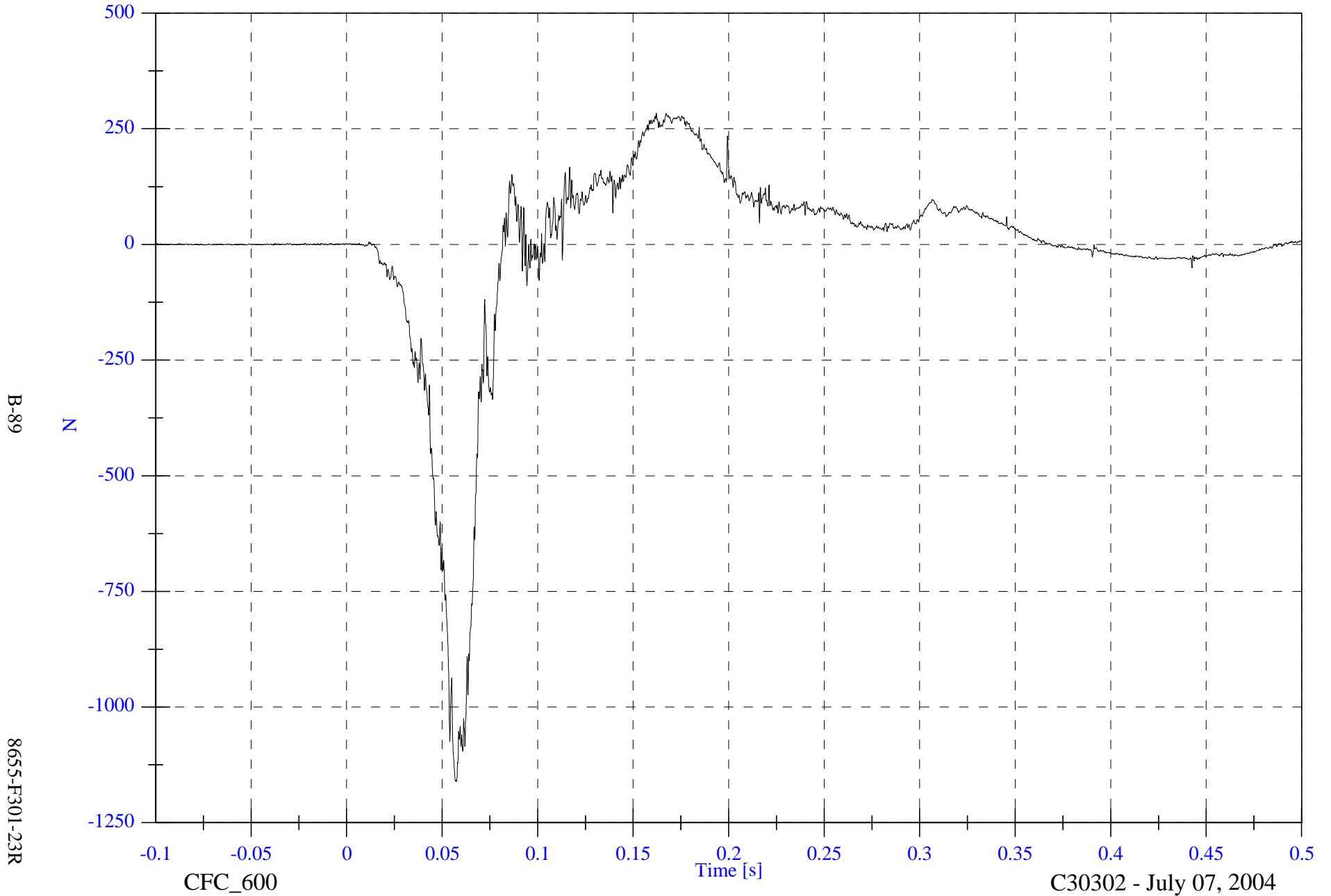
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Right Femur

Max: 283.8 [N] at 0.162 [s]

Min: -1160.6 [N] at 0.058 [s]

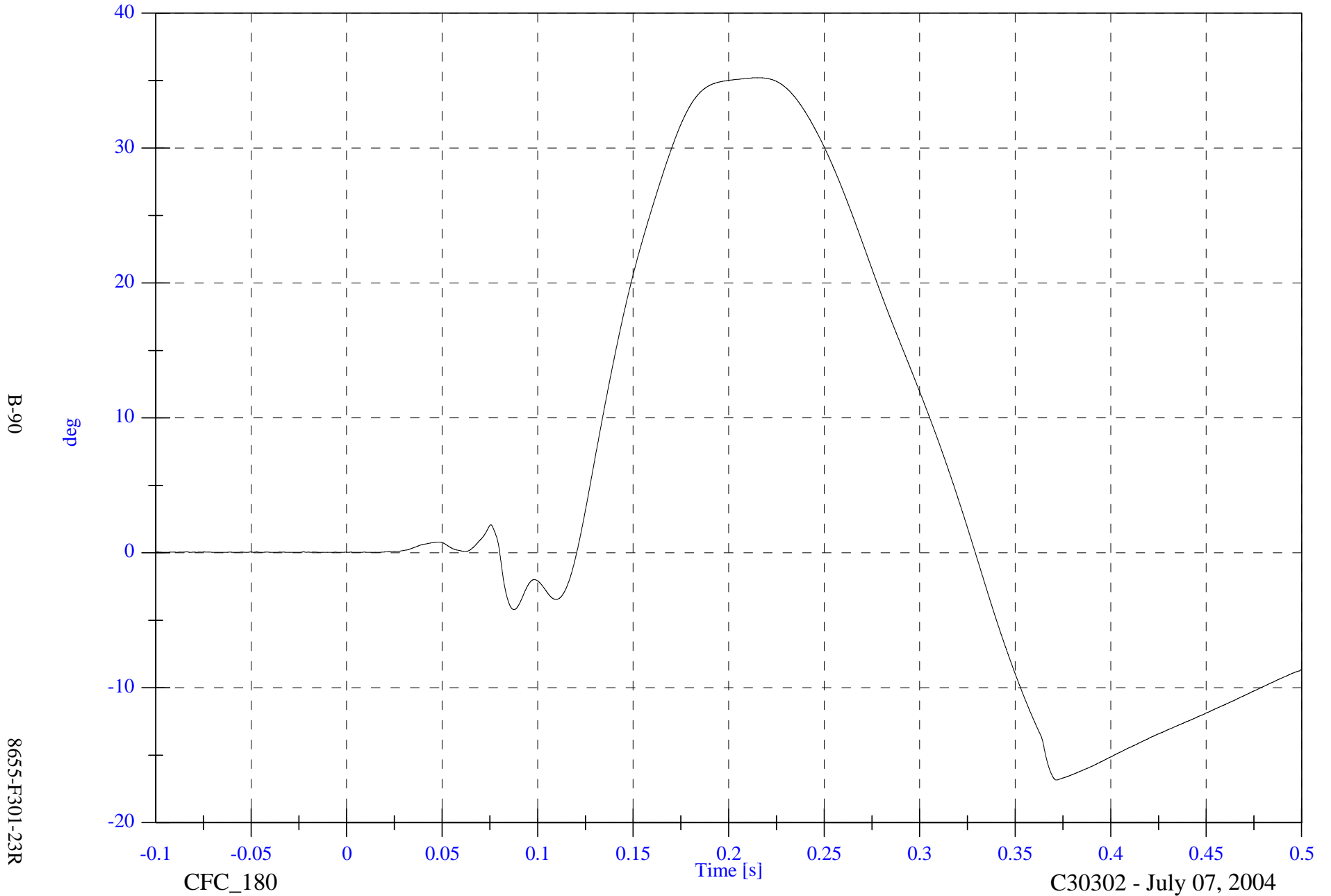


FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Head to Chest

Max: 35.2 [deg] at 0.215 [s]

Min: -16.8 [deg] at 0.372 [s]



B-90

8655-F301-23R

CFC_180

Time [s]

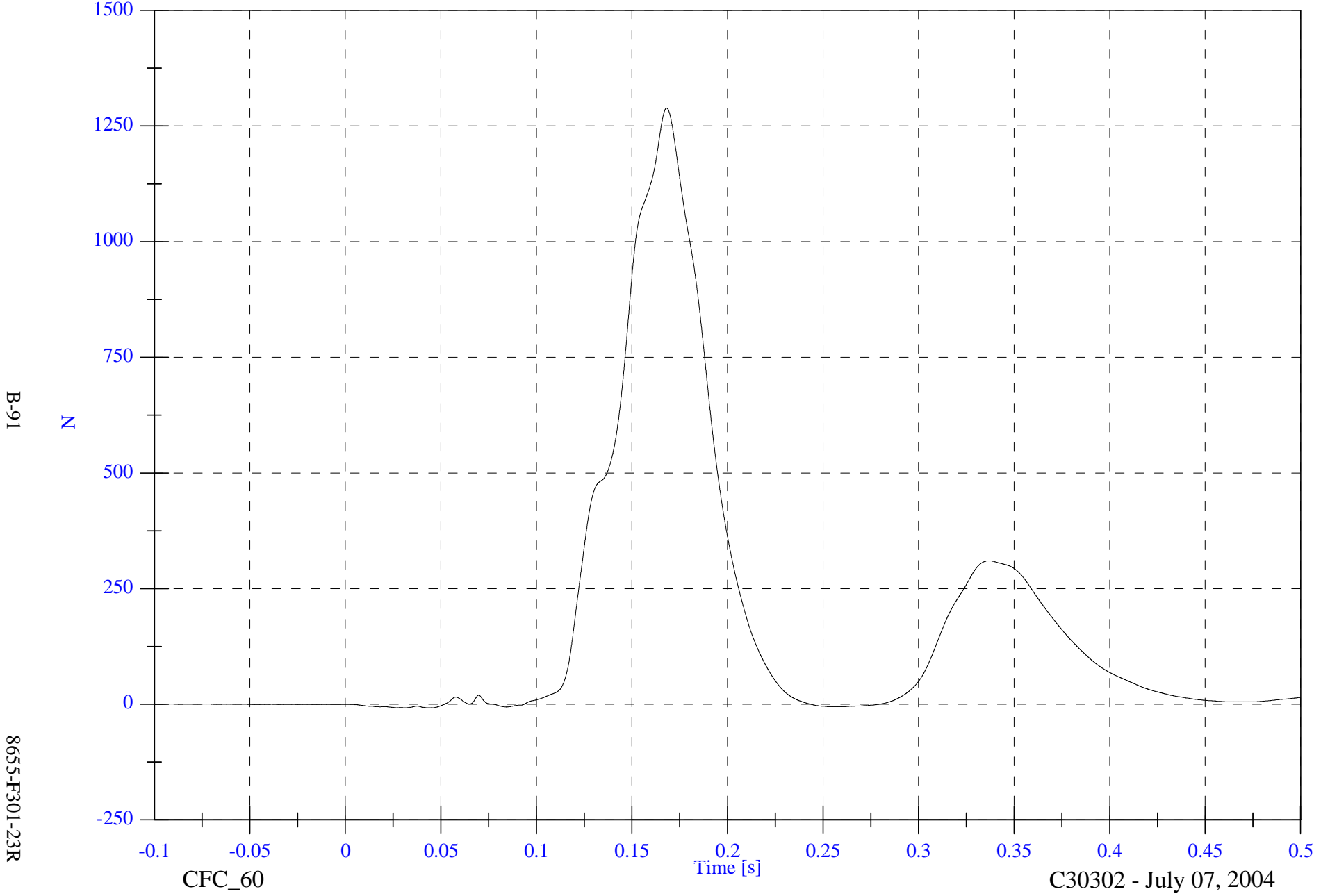
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Lap Belt

Max: 1288.8 [N] at 0.168 [s]

Min: -7.8 [N] at 0.044 [s]



B-91

8655-F301-23R

CFC_60

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

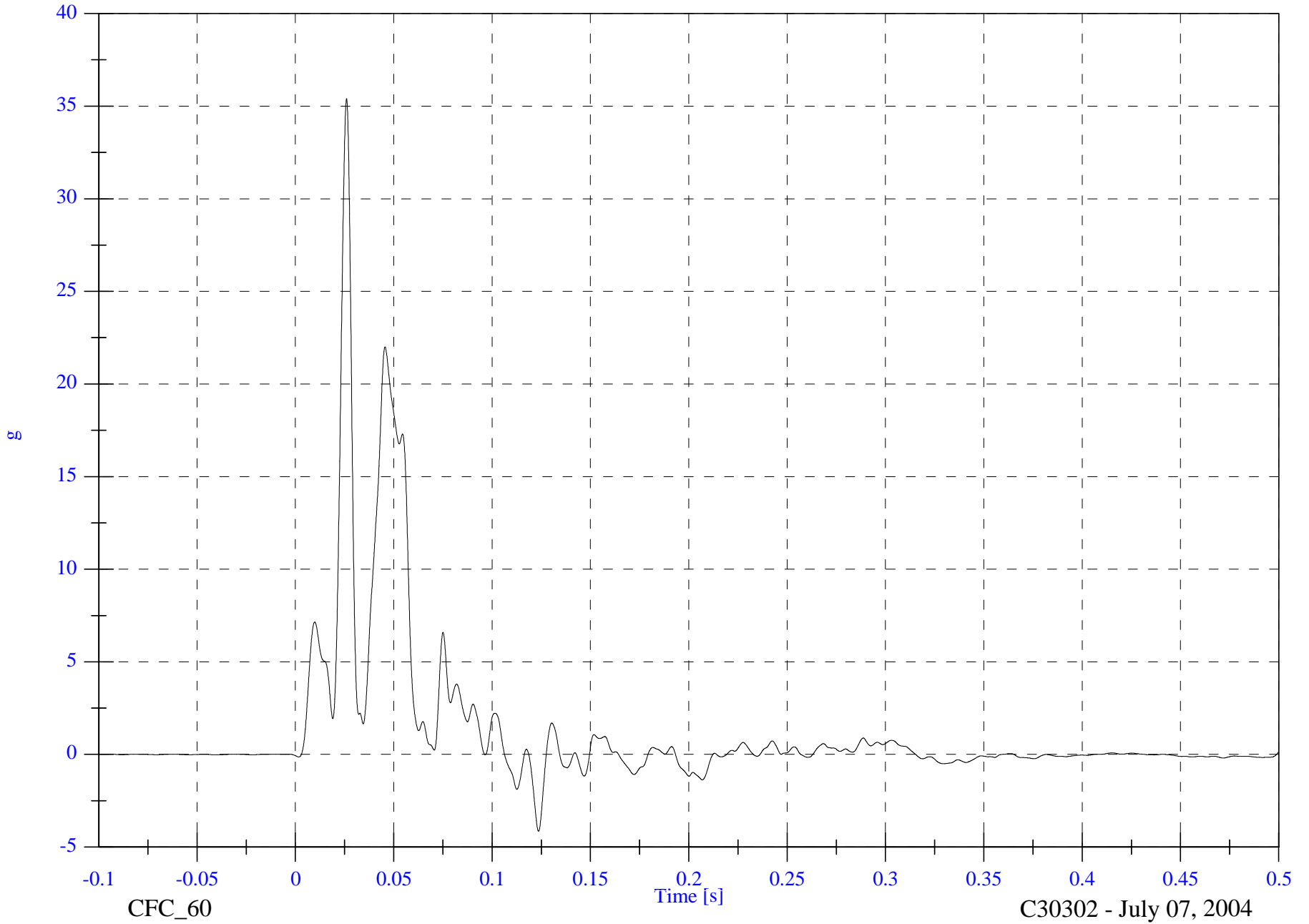
V2 Left X Member x

Max: 35.4 [g] at 0.026 [s]

Min: -4.1 [g] at 0.124 [s]

B-92

8655-F301-23R



CFC_60

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

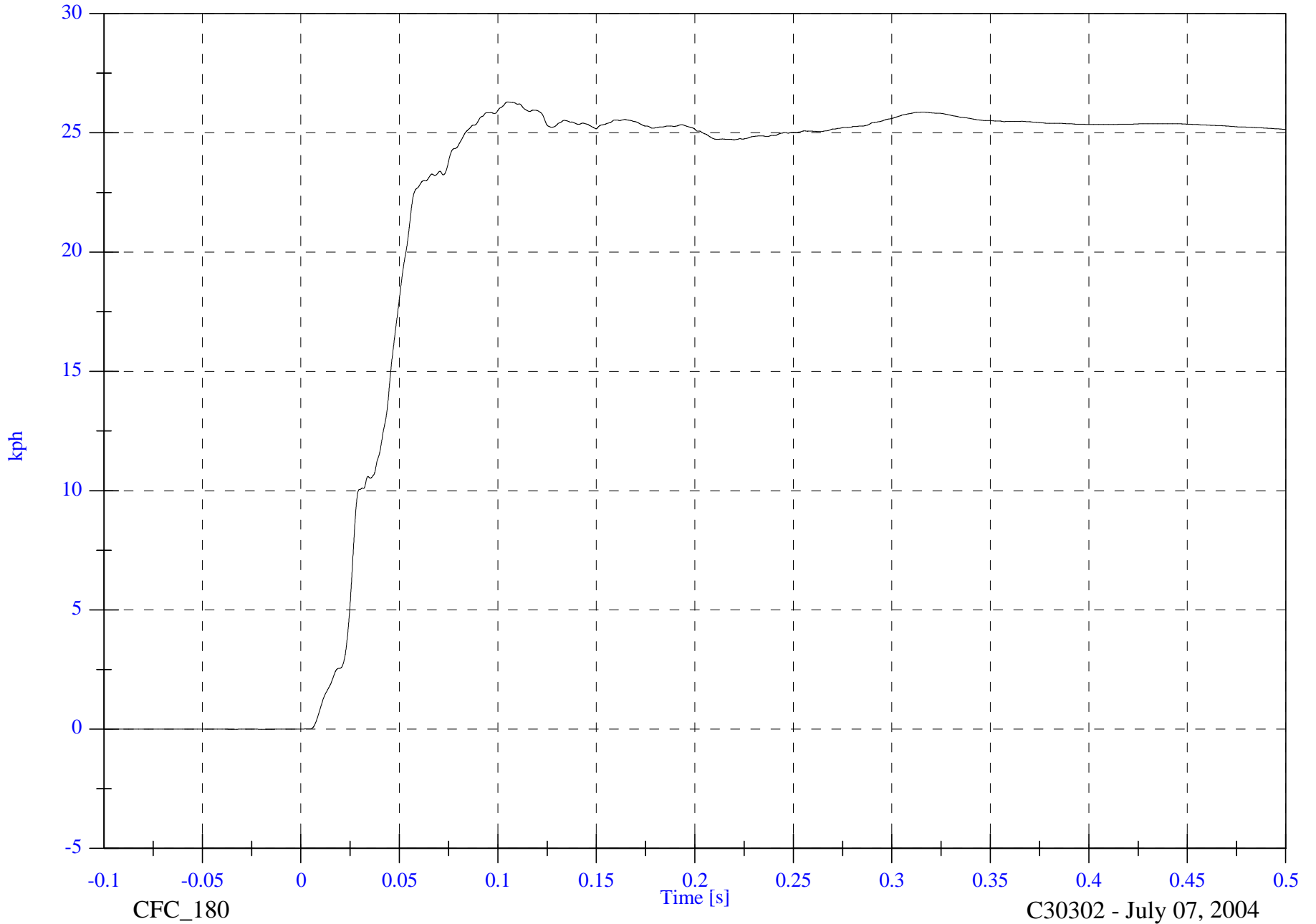
V2 Left X Member x Velocity

Max: 26.3 [kph] at 0.105 [s]

Min: -0.0 [kph] at -0.018 [s]

B-93

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

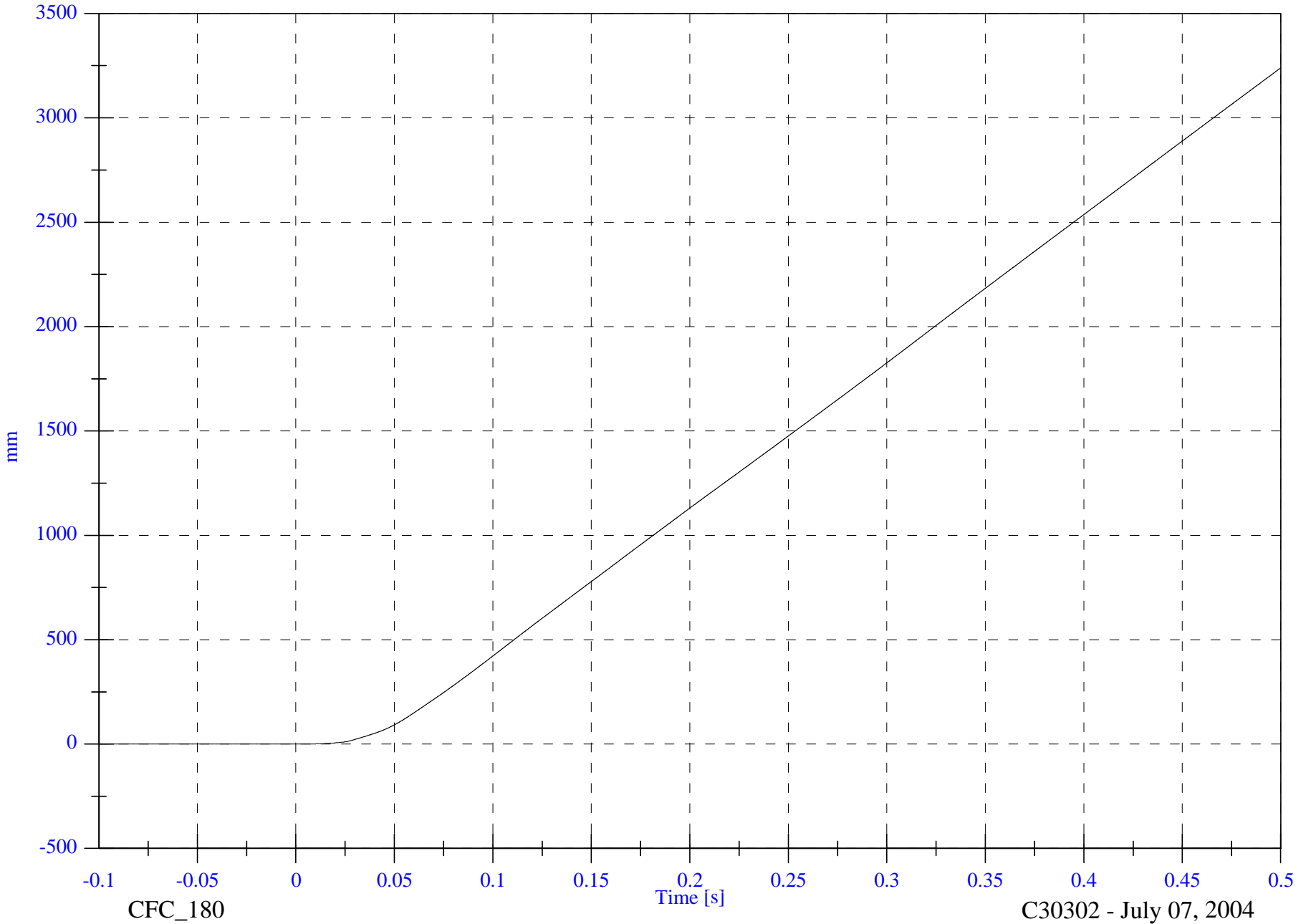
V2 Left X Member x Displacement

Max: 3239.2 [mm] at 0.500 [s]

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

B-94

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

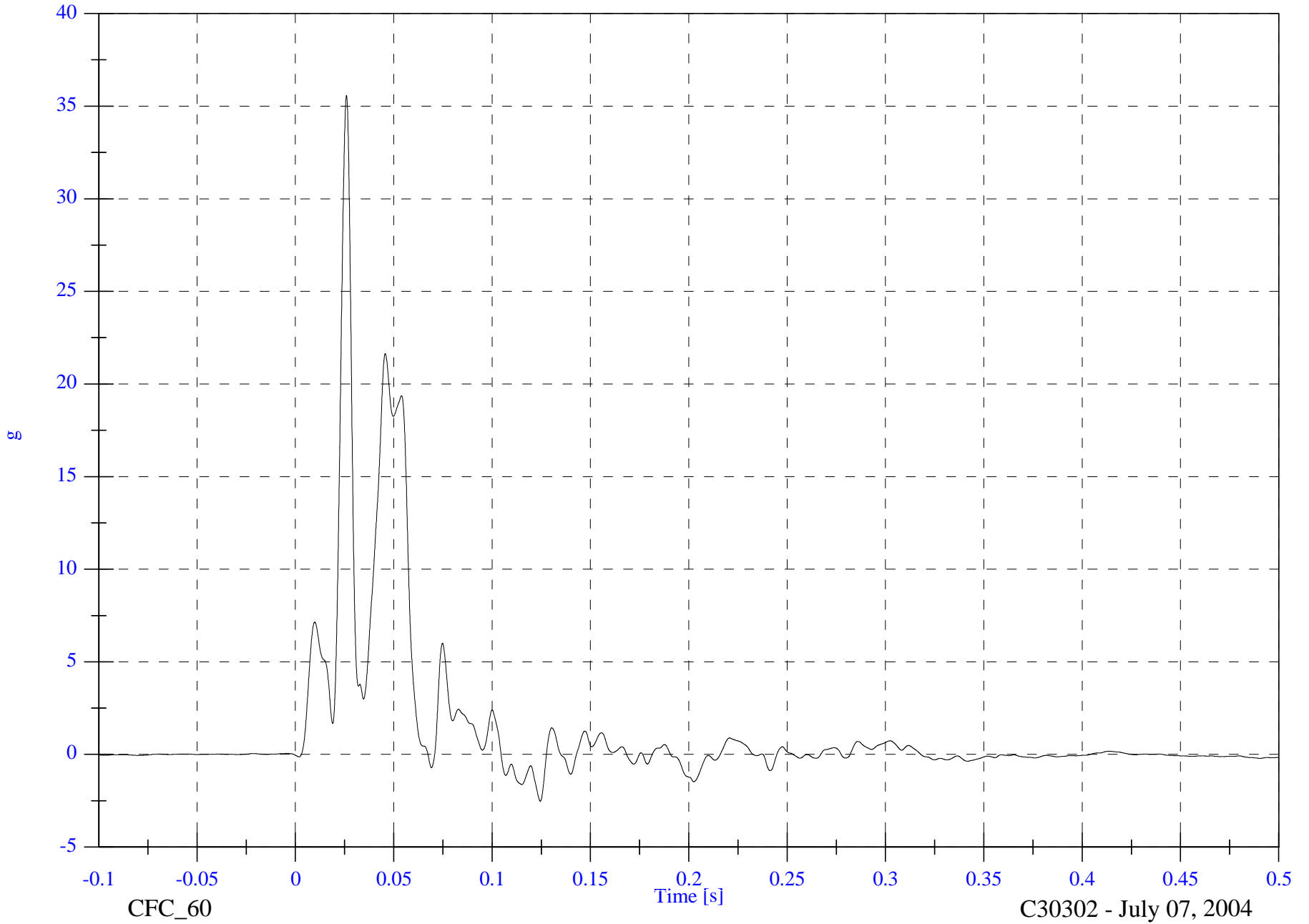
V2 Left X Member RED x

Max: 35.6 [g] at 0.026 [s]

Min: -2.5 [g] at 0.125 [s]

B-95

8655-F301-23R



CFC_60

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

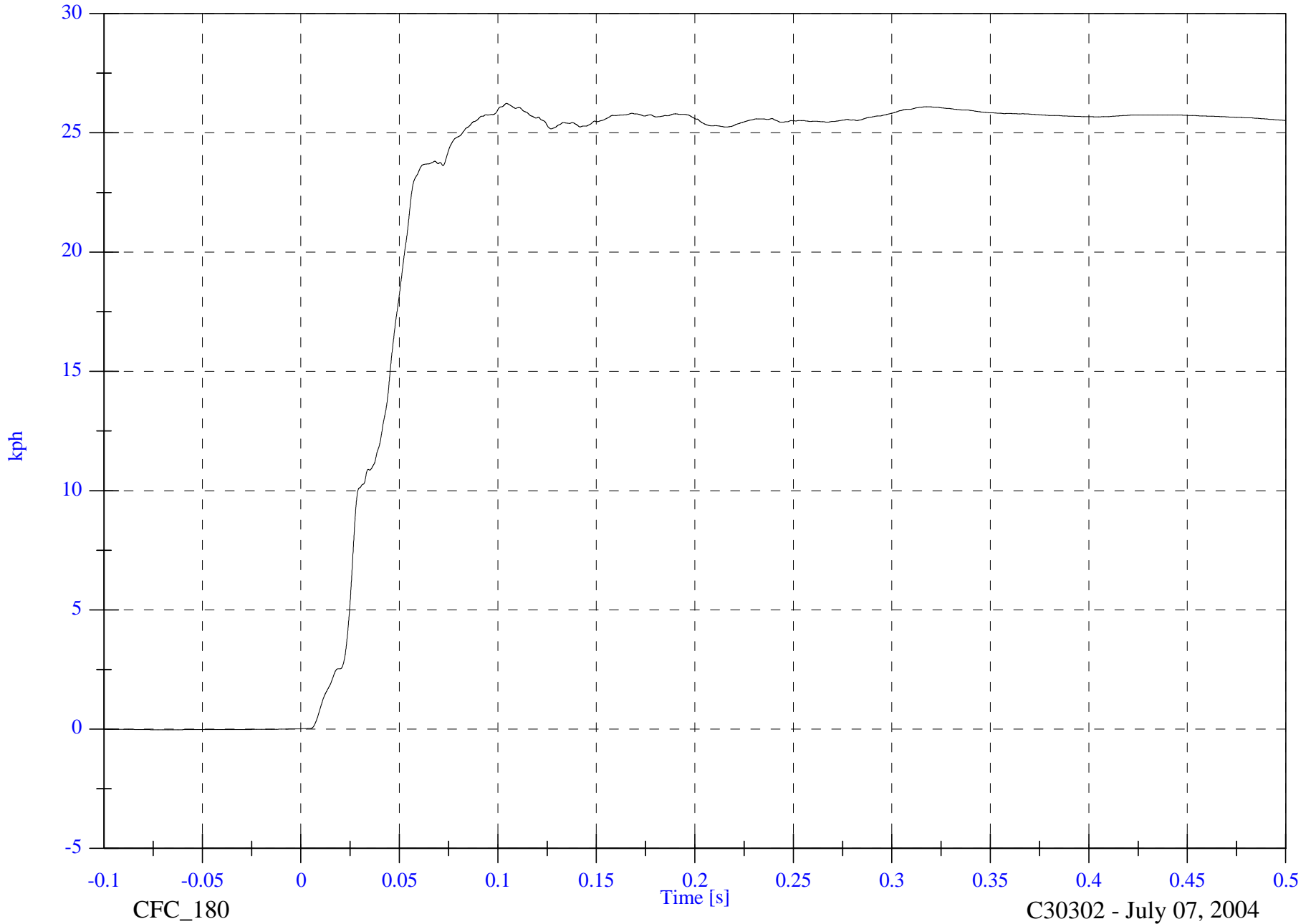
V2 Left X Member RED x Velocity

Max: 26.2 [kph] at 0.104 [s]

Min: -0.0 [kph] at -0.074 [s]

B-96

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

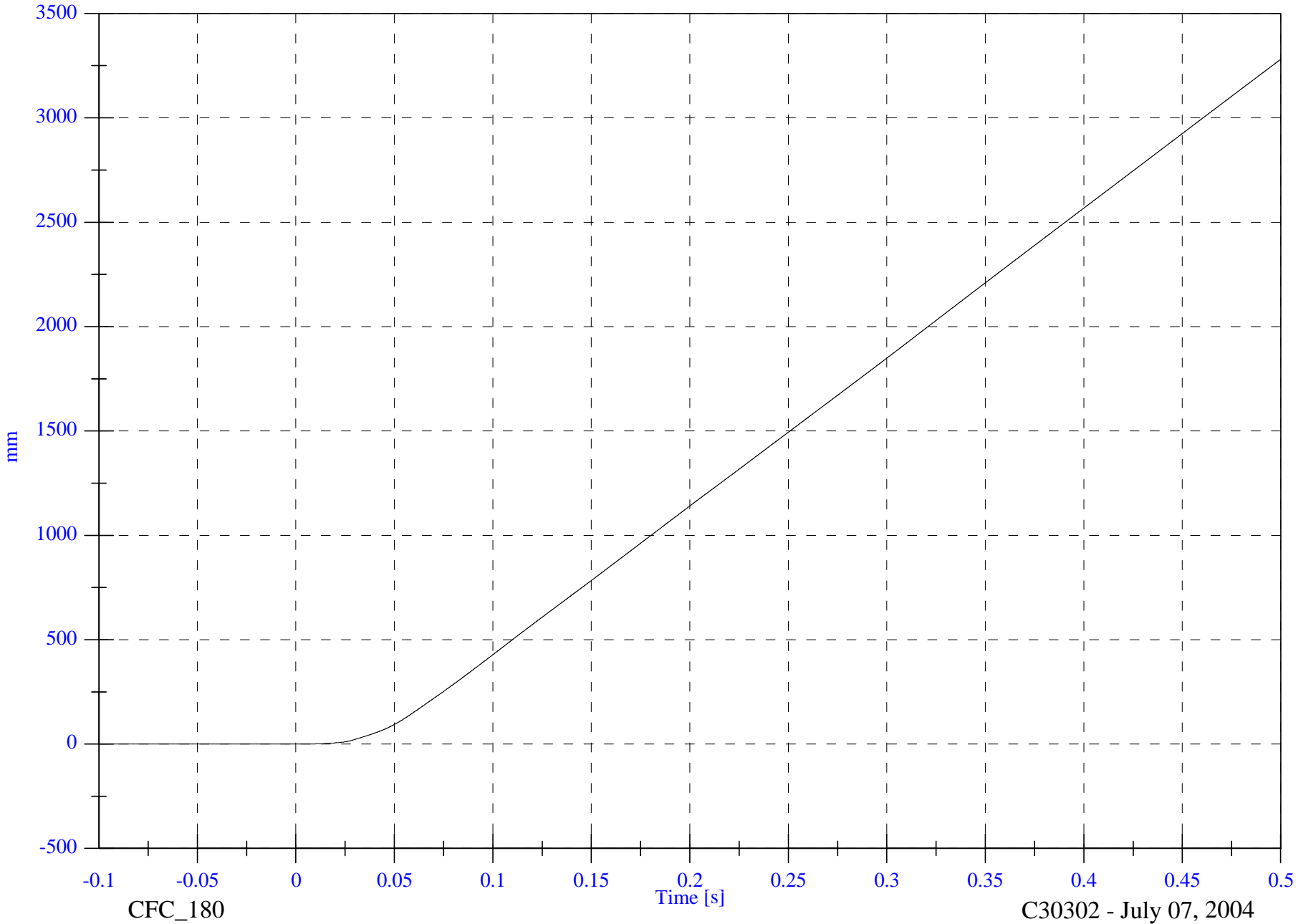
V2 Left X Member RED x Displacement

Max: 3280.4 [mm] at 0.500 [s]

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

B-97

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

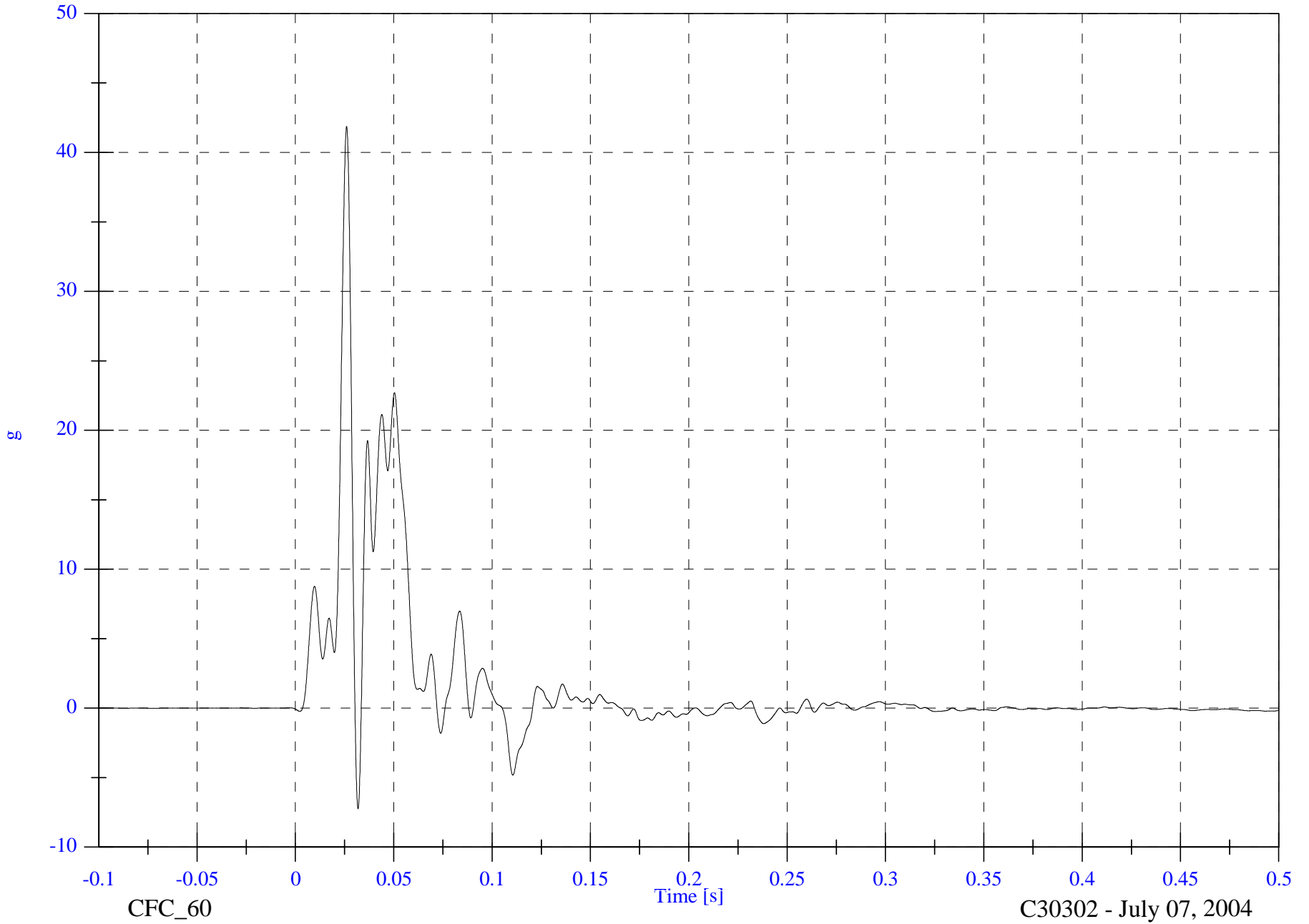
V2 Right X Member x

Max: 41.9 [g] at 0.026 [s]

Min: -7.2 [g] at 0.032 [s]

B-98

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

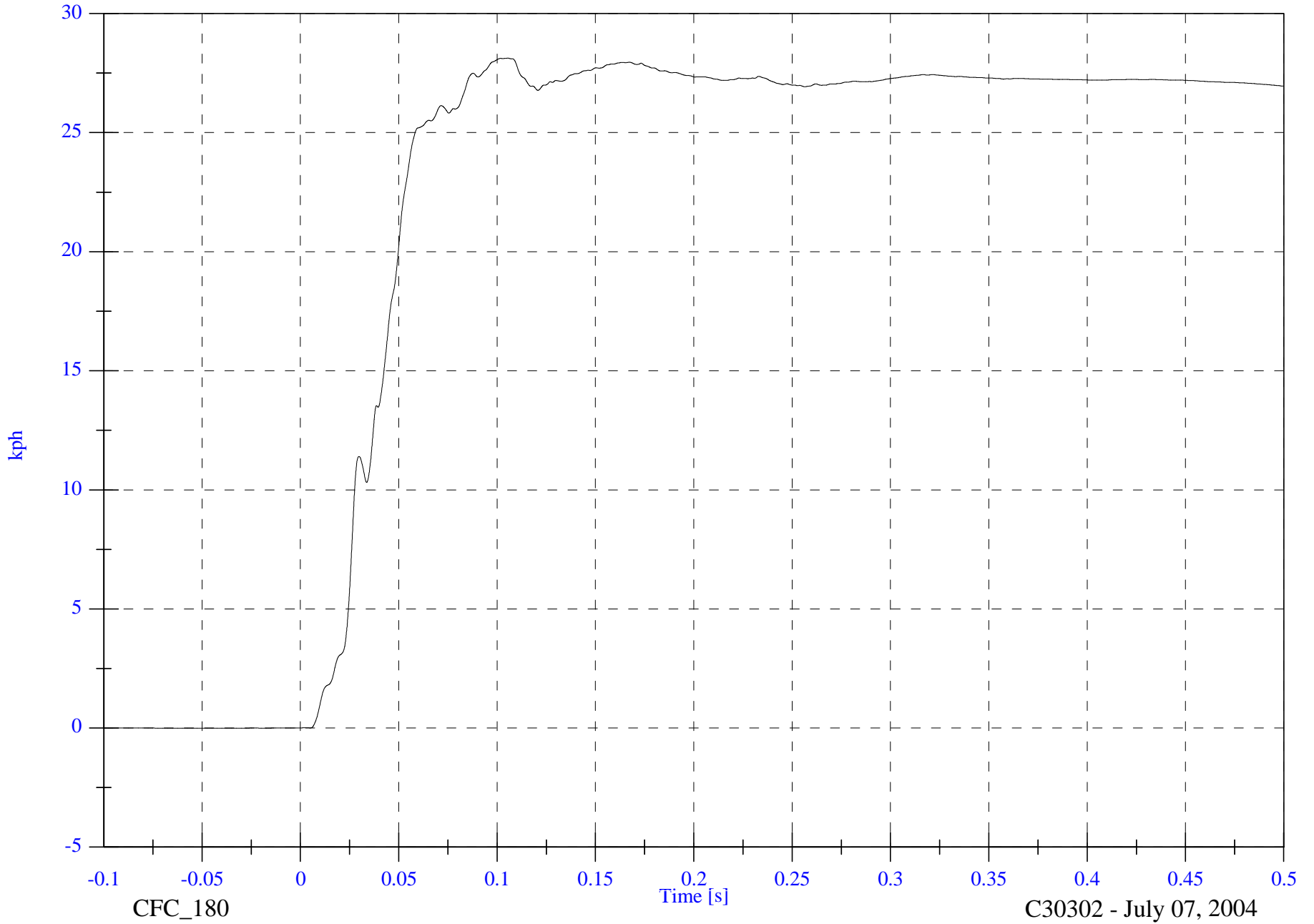
V2 Right X Member x Velocity

Max: 28.1 [kph] at 0.106 [s]

Min: -0.0 [kph] at -0.033 [s]

B-99

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

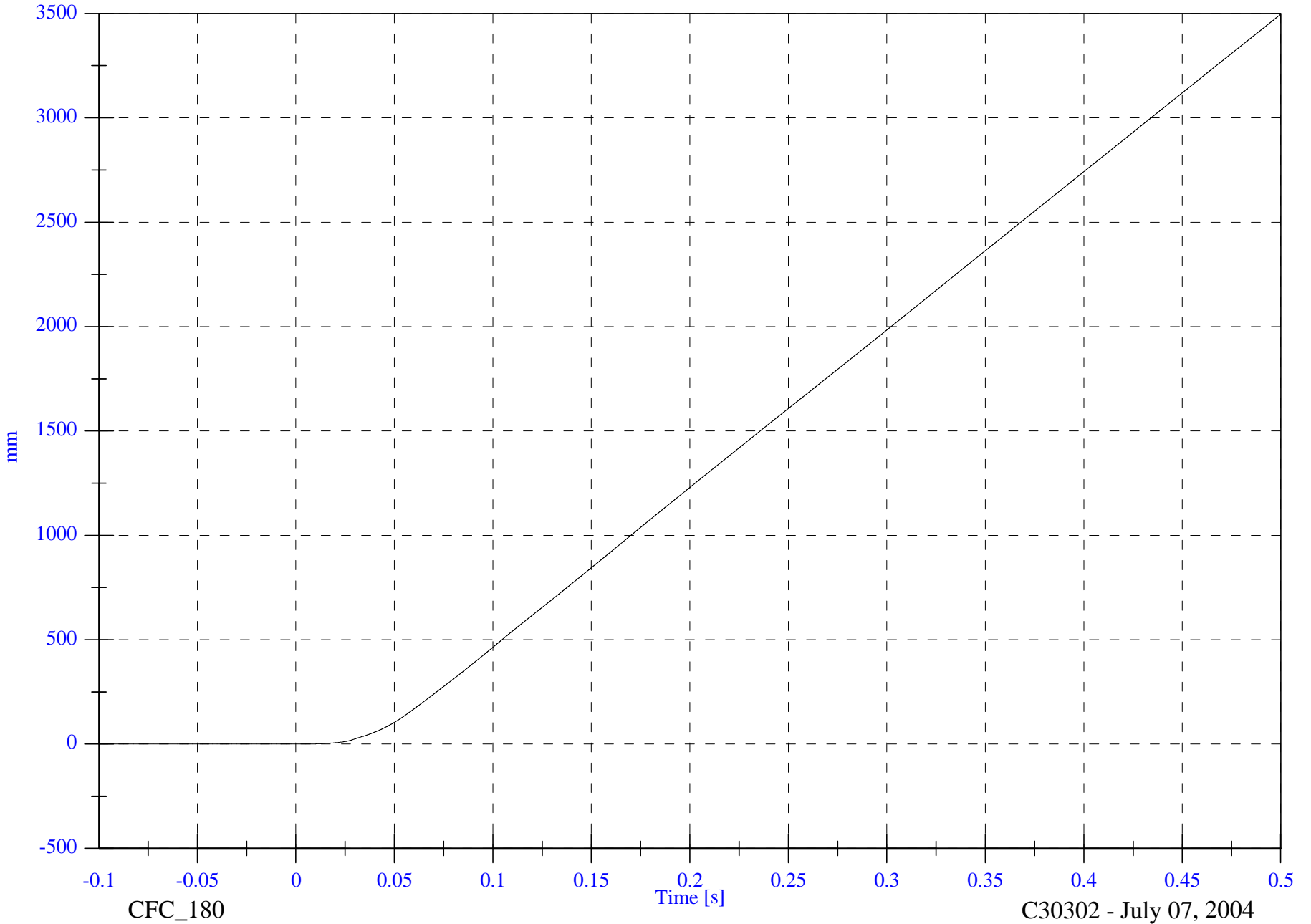
V2 Right X Member x Displacement

Max: 3495.9 [mm] at 0.500 [s]

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

B-100

8655-F301-23R



CFC_180

Time [s]

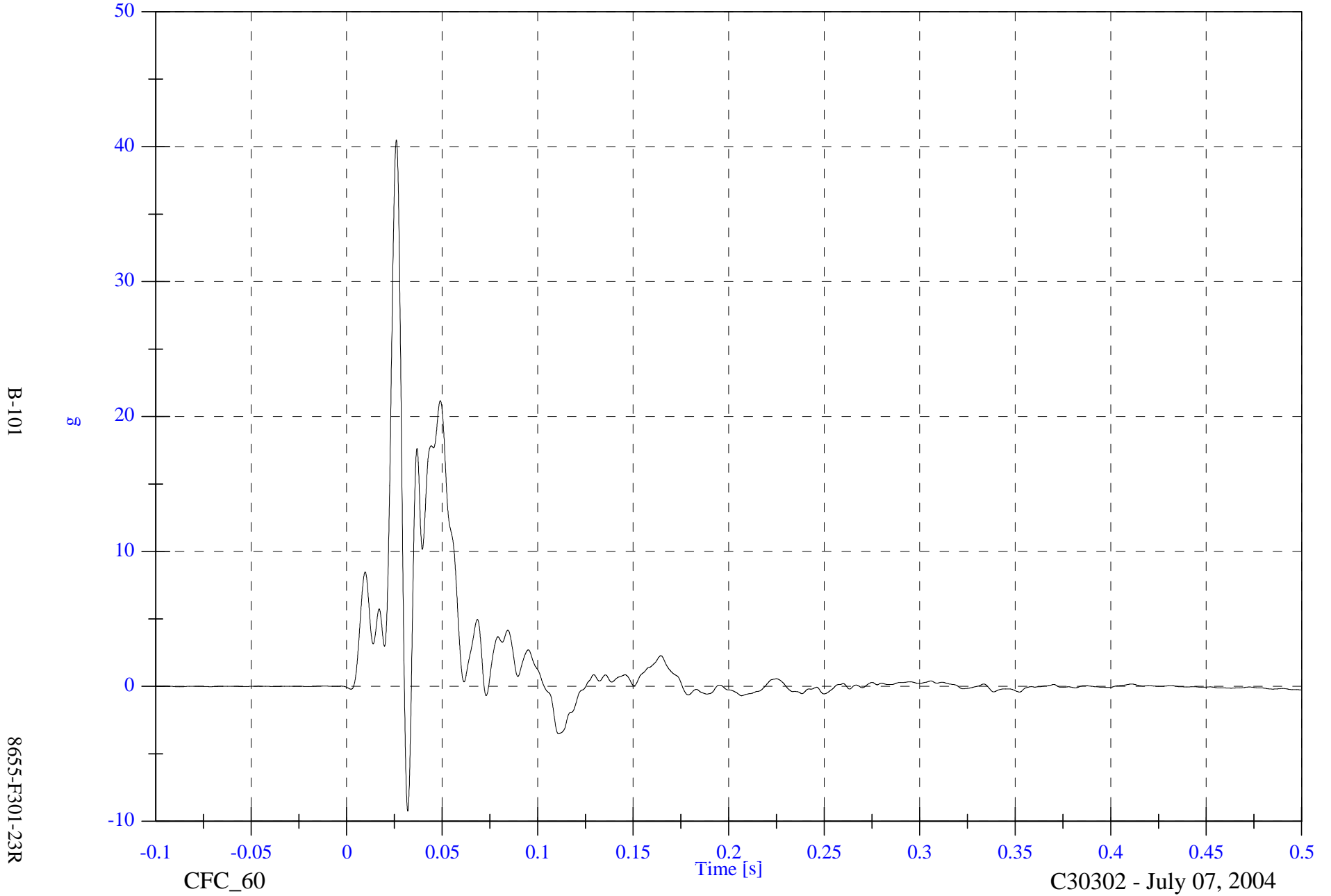
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2 Right X Member RED x

Max: 40.5 [g] at 0.026 [s]

Min: -9.2 [g] at 0.032 [s]



FMVSS301 Test 9 - 2004 Jeep Liberty

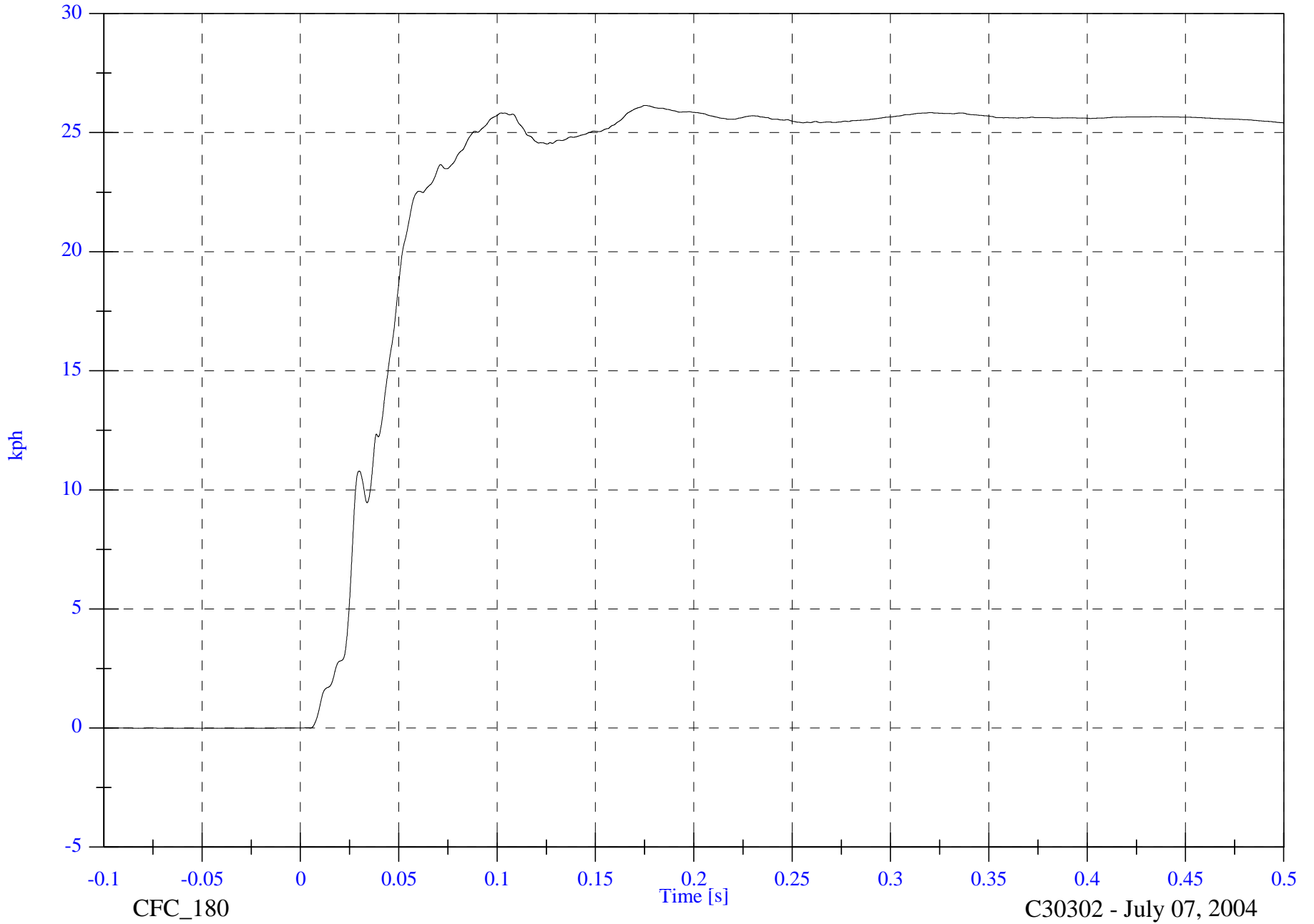
V2 Right X Member RED x Velocity

Max: 26.1 [kph] at 0.175 [s]

Min: -0.0 [kph] at -0.033 [s]

B-102

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

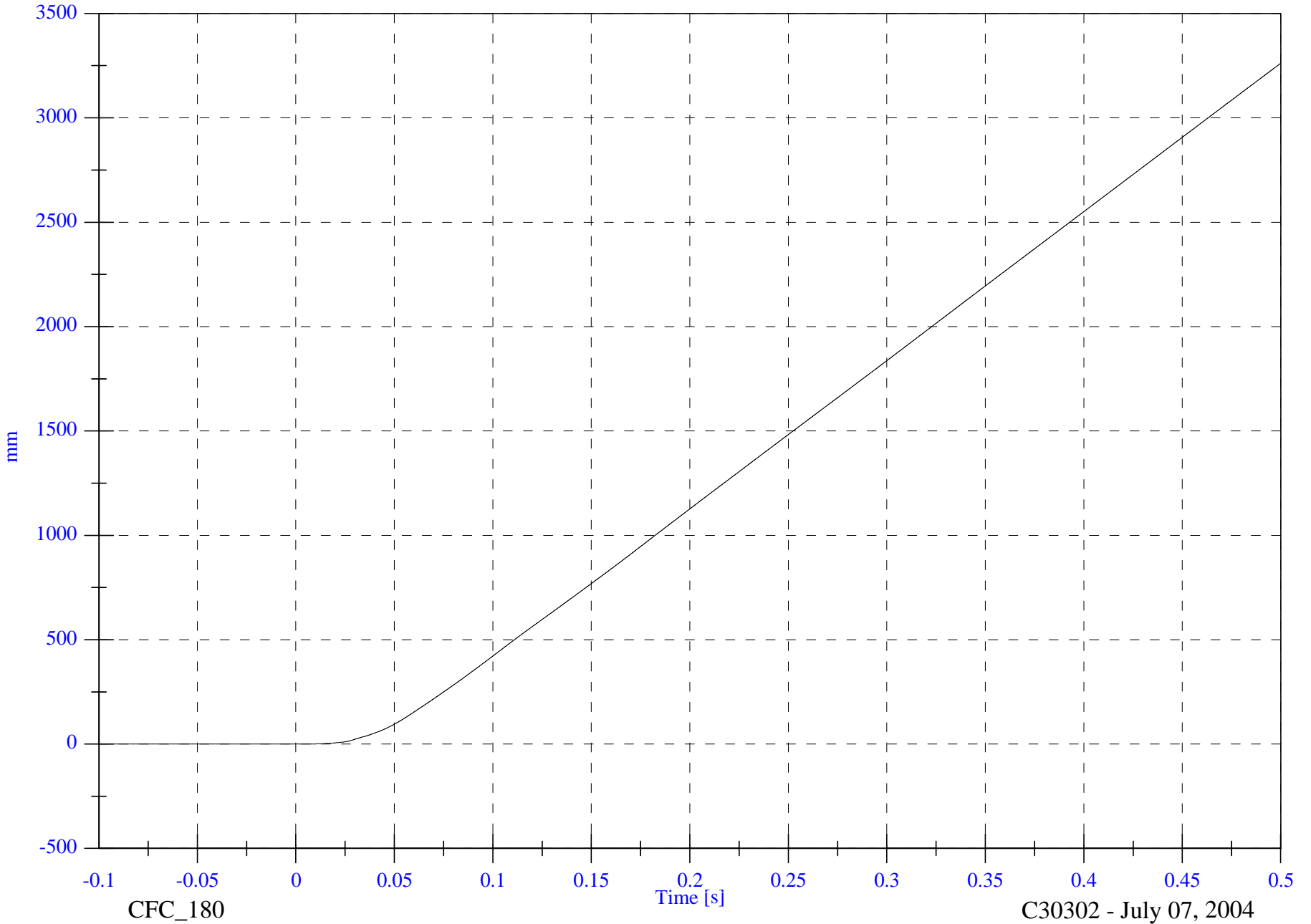
V2 Right X Member RED x Displacement

Max: 3261.3 [mm] at 0.500 [s]

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

B-103

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

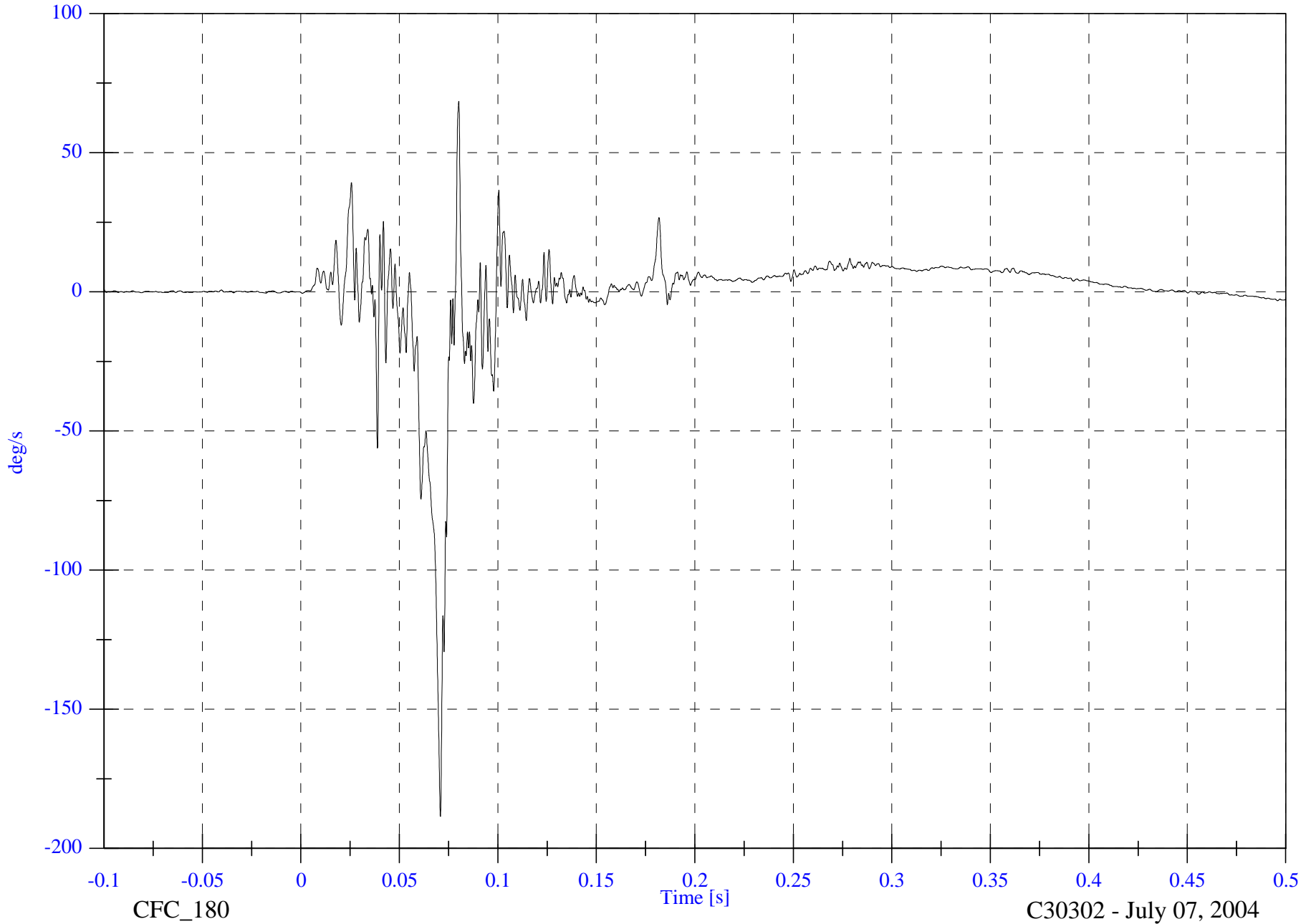
V2 Left Front Sill AVy

Max: 68.4 [deg/s] at 0.080 [s]

Min: -188.6 [deg/s] at 0.071 [s]

B-104

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

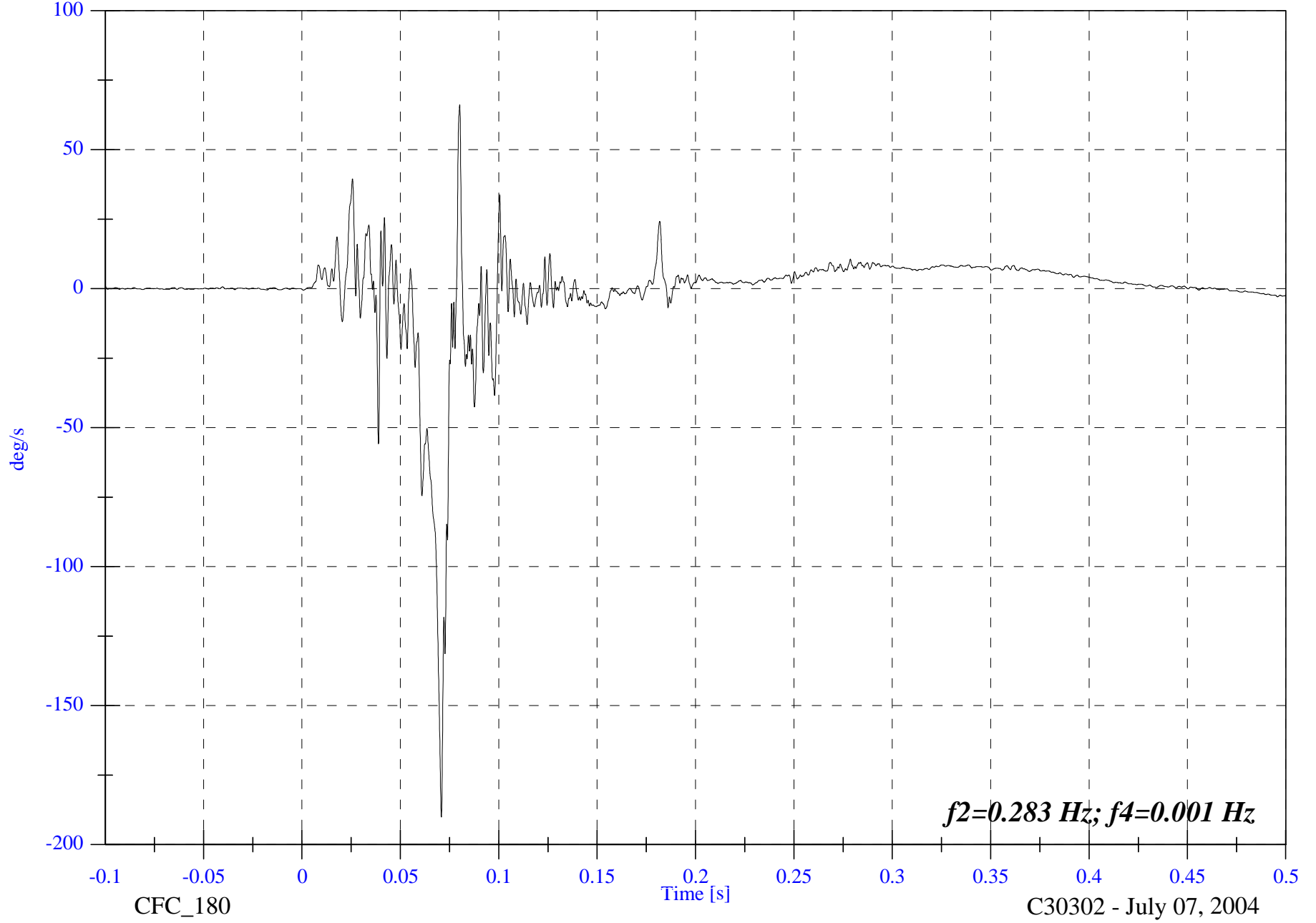
V2 Left Front Sill Comp AVy

Max: 66.1 [deg/s] at 0.080 [s]

Min: -190.1 [deg/s] at 0.071 [s]

B-105

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

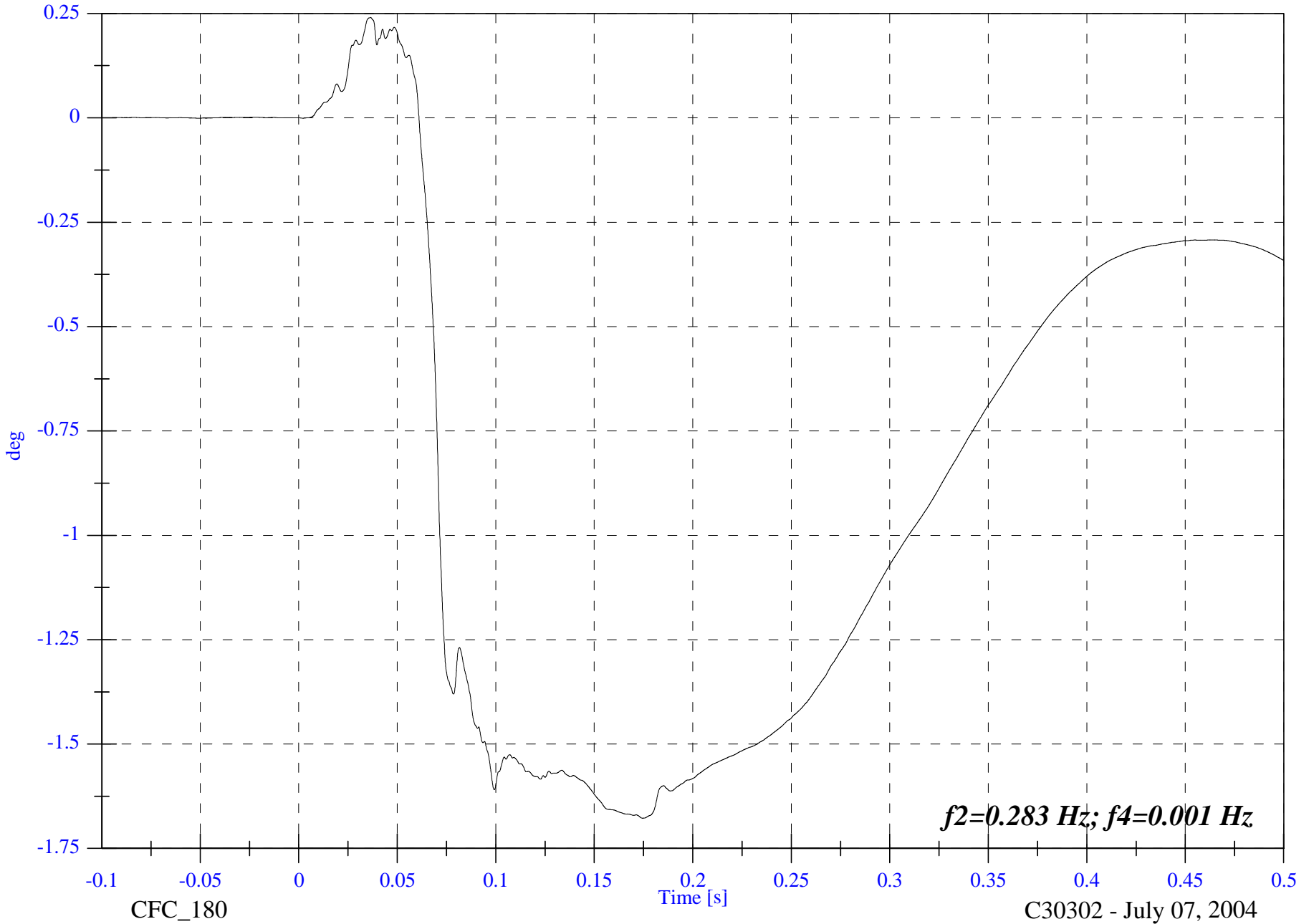
V2 Left Front Sill Comp ADy

Max: 0.2 [deg] at 0.037 [s]

Min: -1.7 [deg] at 0.175 [s]

B-106

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

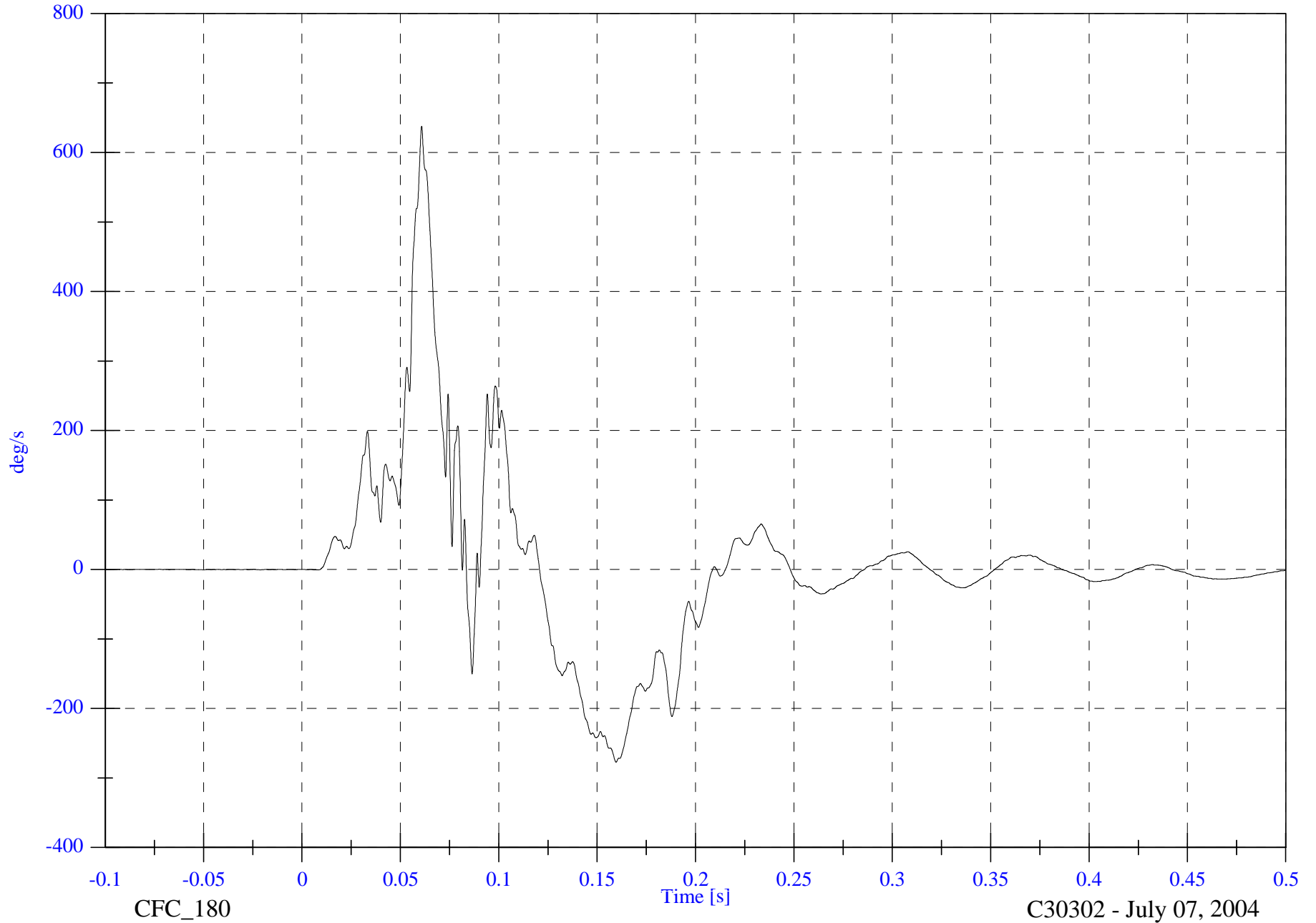
V2P1 Left Seat AVy

Max: 637.5 [deg/s] at 0.061 [s]

Min: -277.3 [deg/s] at 0.160 [s]

B-107

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

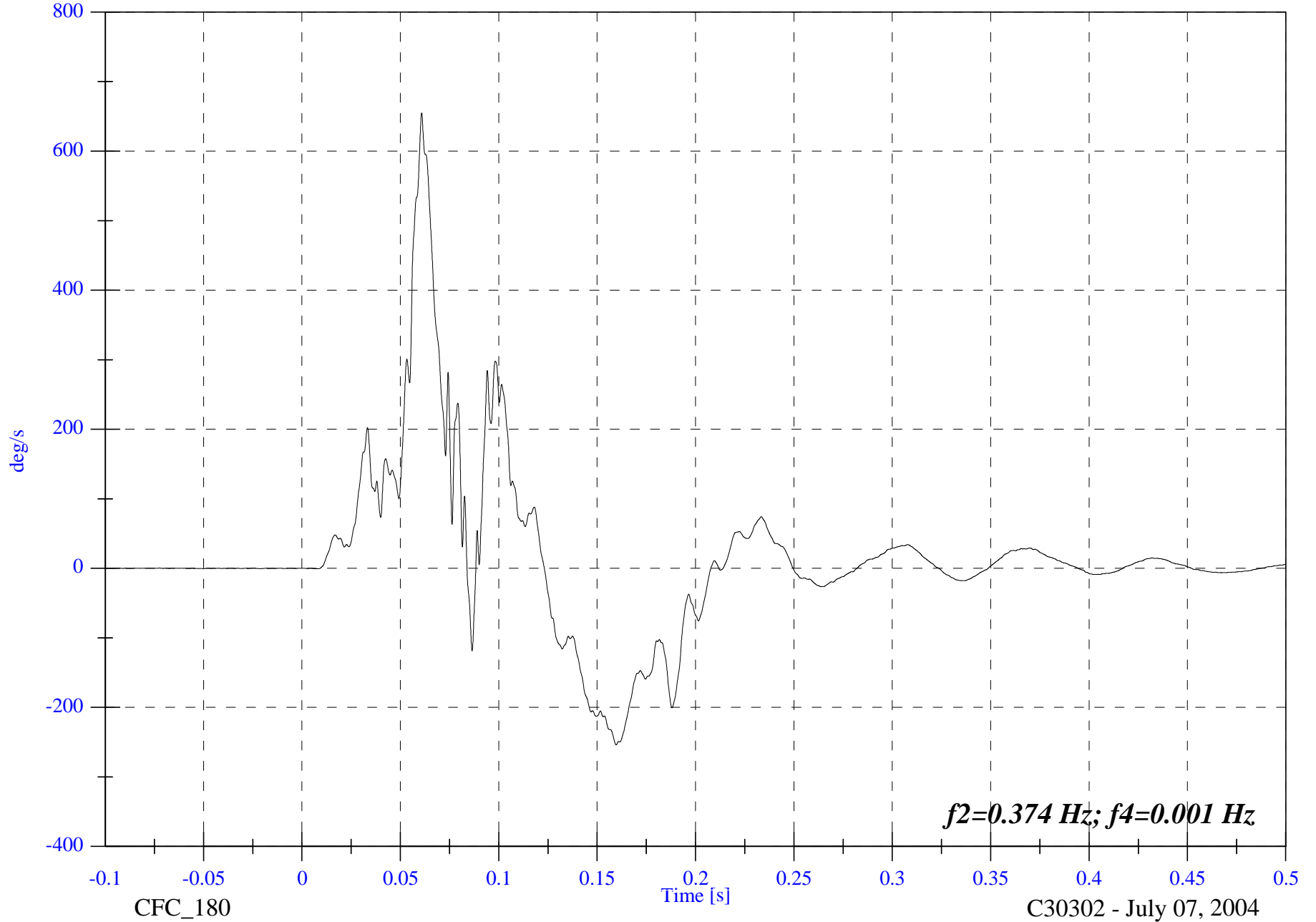
V2P1 Left Seat Comp AVy

Max: 655.1 [deg/s] at 0.061 [s]

Min: -254.0 [deg/s] at 0.160 [s]

B-108

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

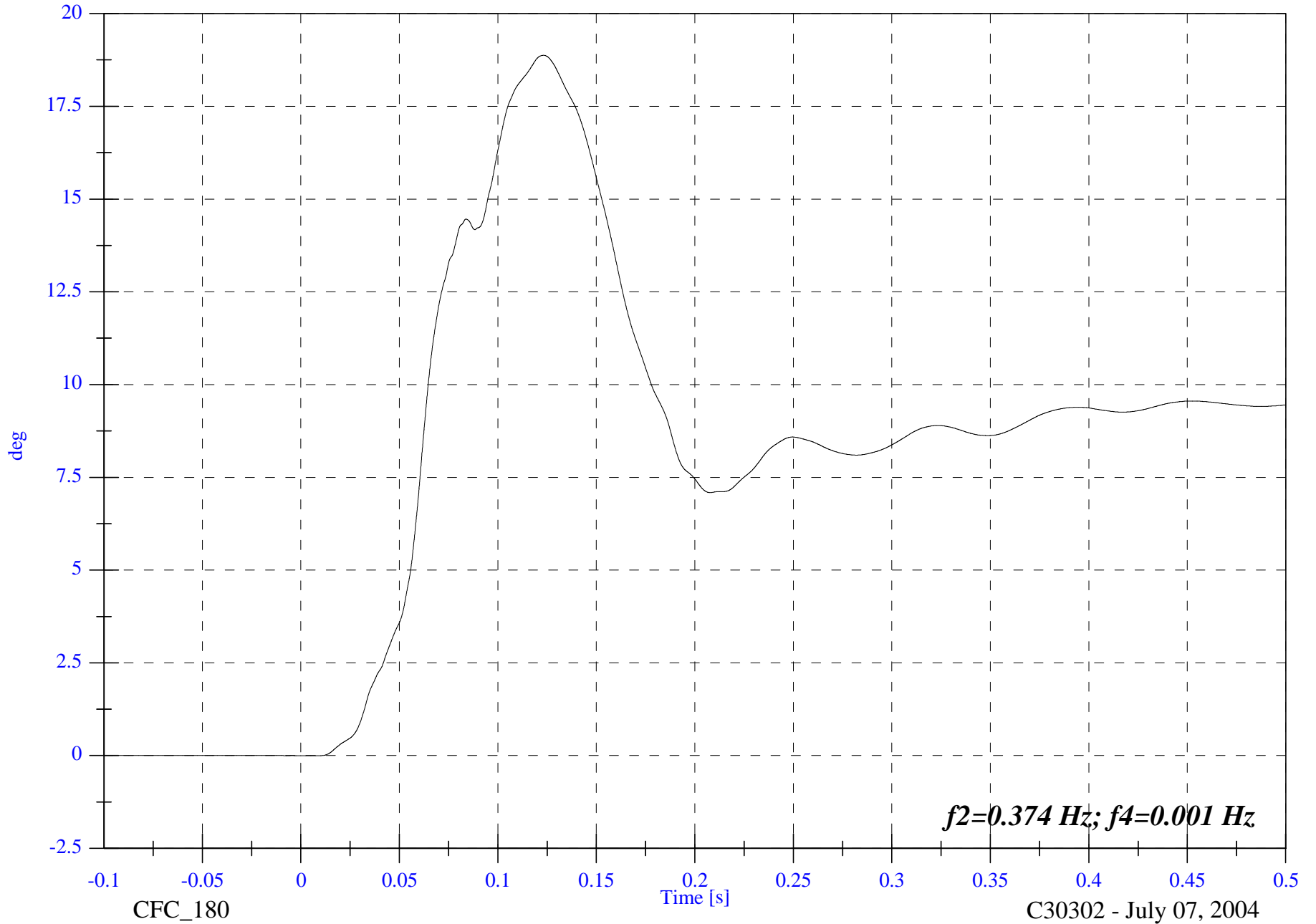
V2P1 Left Seat Comp ADy

Max: 18.9 [deg] at 0.123 [s]

Min: -0.0 [deg] at 0.009 [s]

B-109

8655-F301-23R



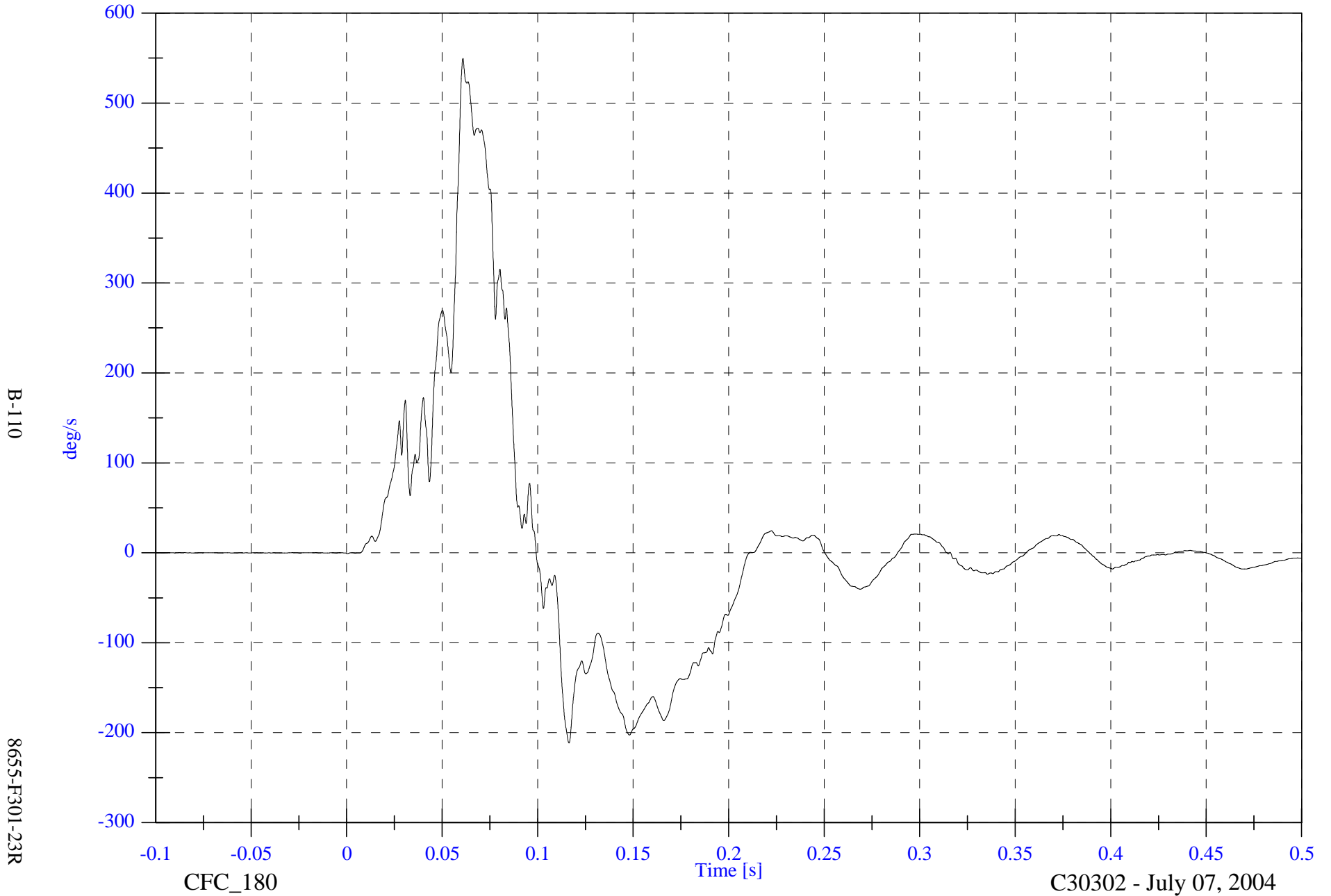
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P1 Right Seat AVy

Max: 549.6 [deg/s] at 0.061 [s]

Min: -211.4 [deg/s] at 0.116 [s]



FMVSS301 Test 9 - 2004 Jeep Liberty

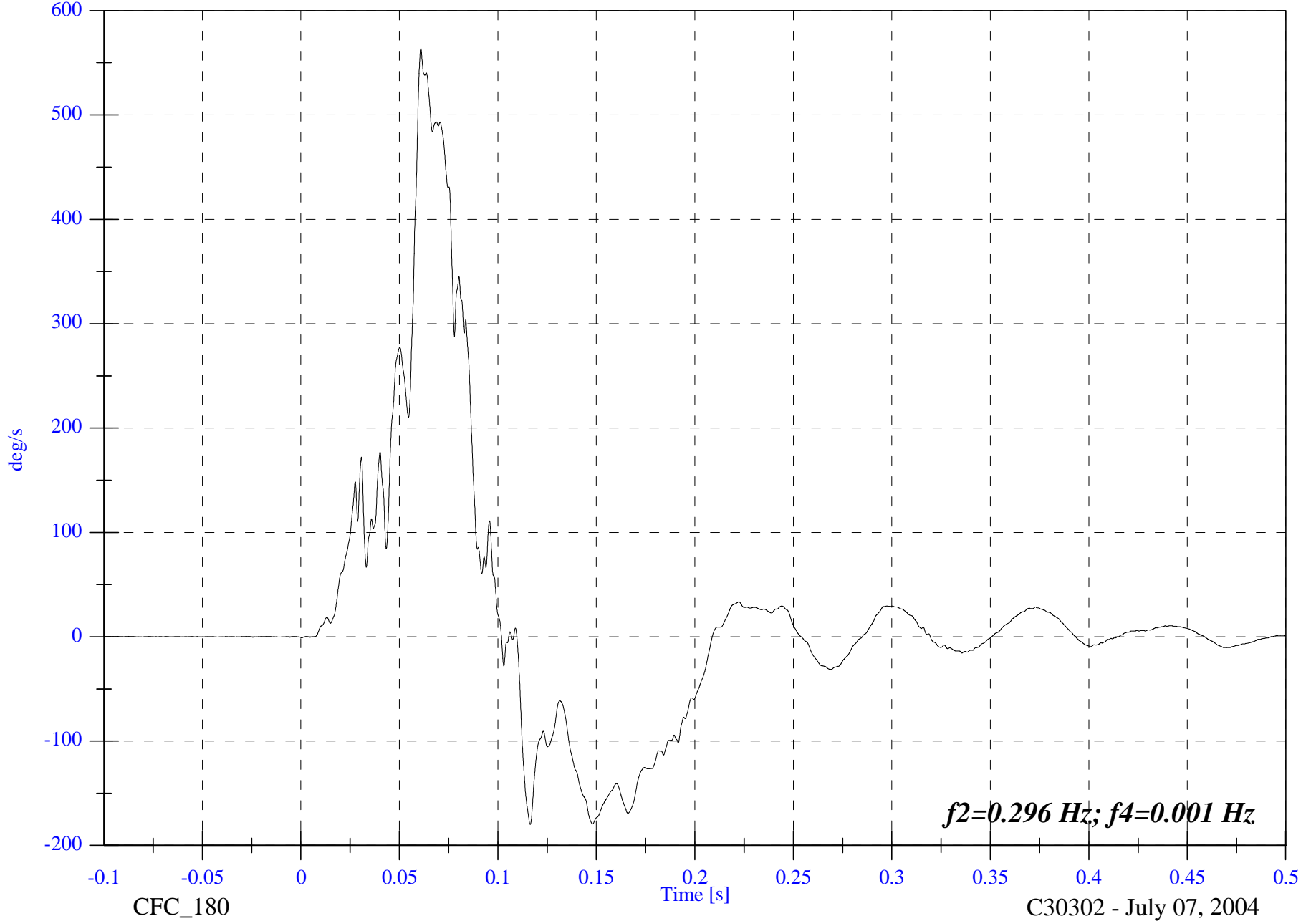
V2P1 Right Seat Comp AVy

Max: 563.6 [deg/s] at 0.061 [s]

Min: -179.9 [deg/s] at 0.116 [s]

B-111

8655-F301-23R



$f_2=0.296$ Hz; $f_4=0.001$ Hz

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

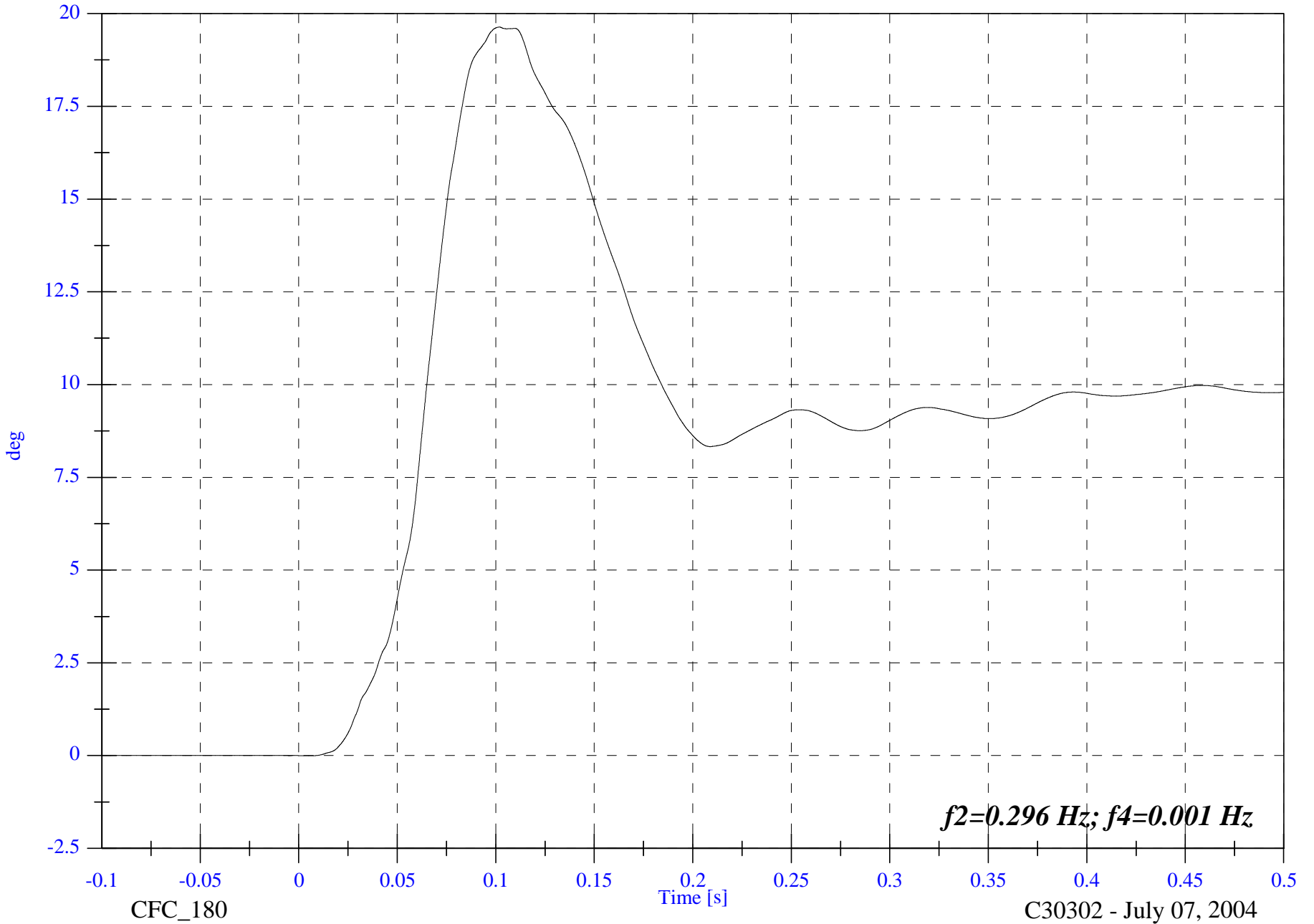
V2P1 Right Seat Comp ADy

Max: 19.6 [deg] at 0.102 [s]

Min: -0.0 [deg] at 0.007 [s]

B-112

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

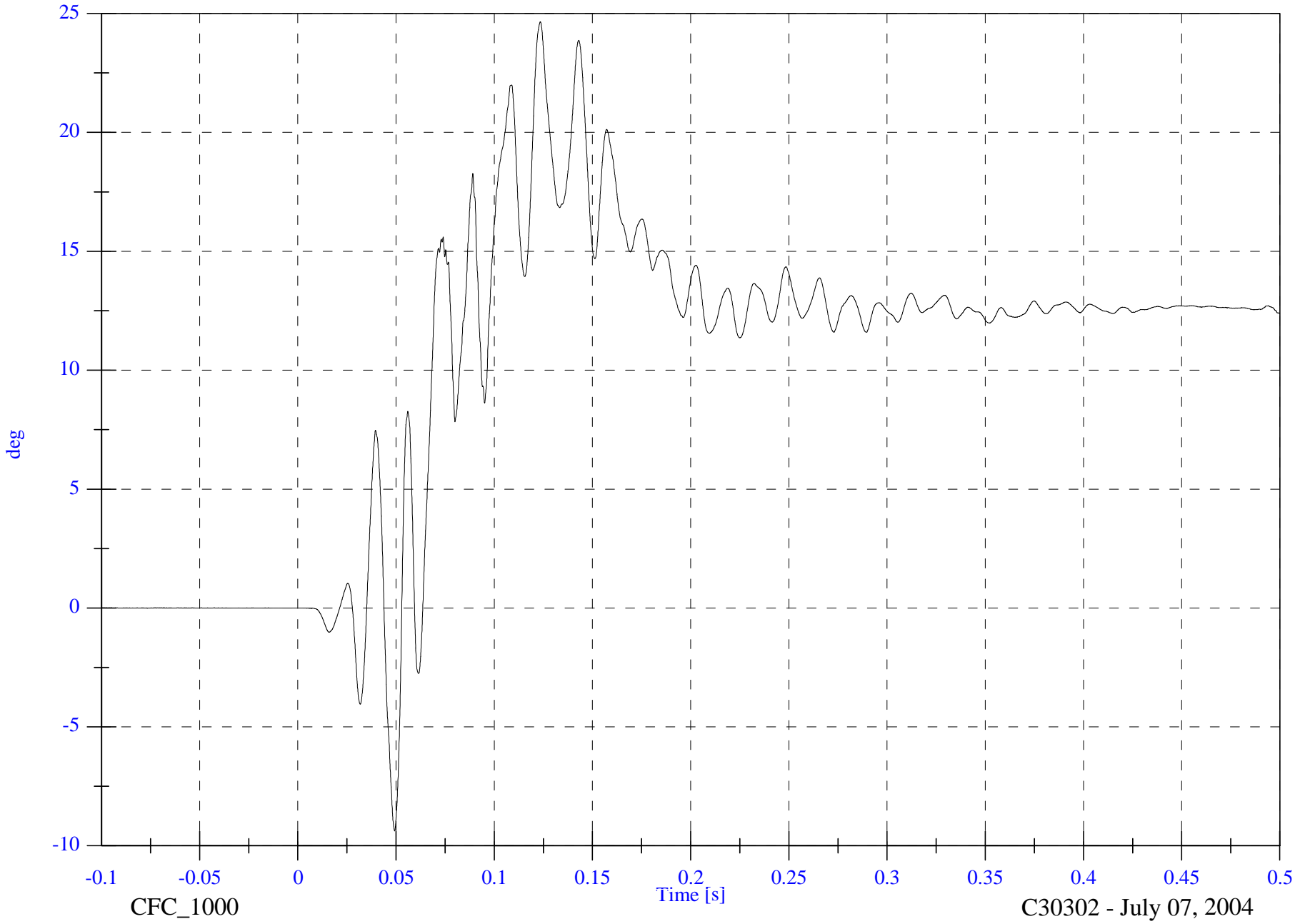
V2P1 Left Link ADy

Max: 24.7 [deg] at 0.123 [s]

Min: -9.4 [deg] at 0.049 [s]

B-113

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

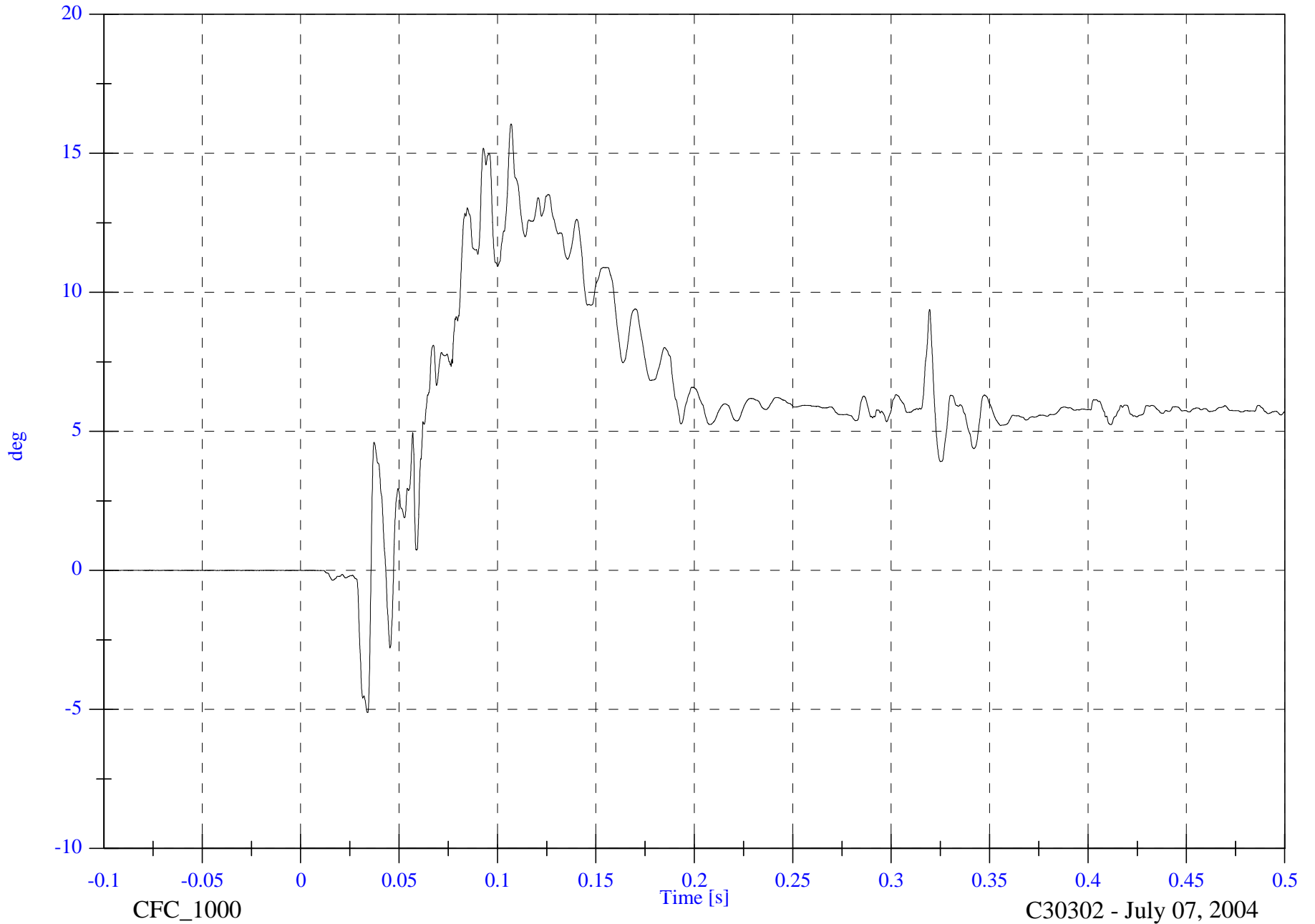
V2P1 Right Link ADy

Max: 16.1 [deg] at 0.107 [s]

Min: -5.1 [deg] at 0.034 [s]

B-114

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

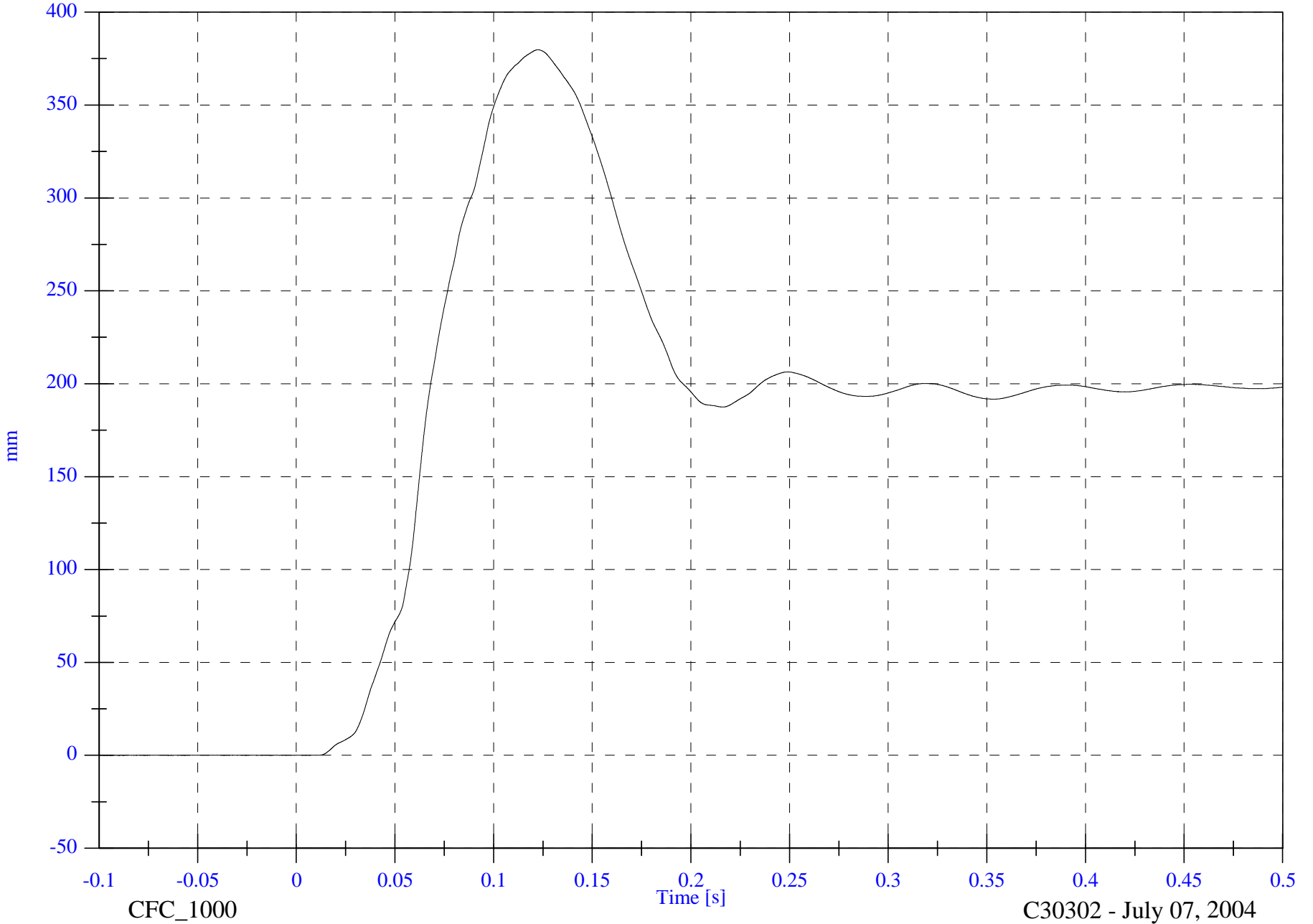
V2P1 Left Span Bar D

Max: 379.7 [mm] at 0.123 [s]

Min: -0.0 [mm] at -0.077 [s]

B-115

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

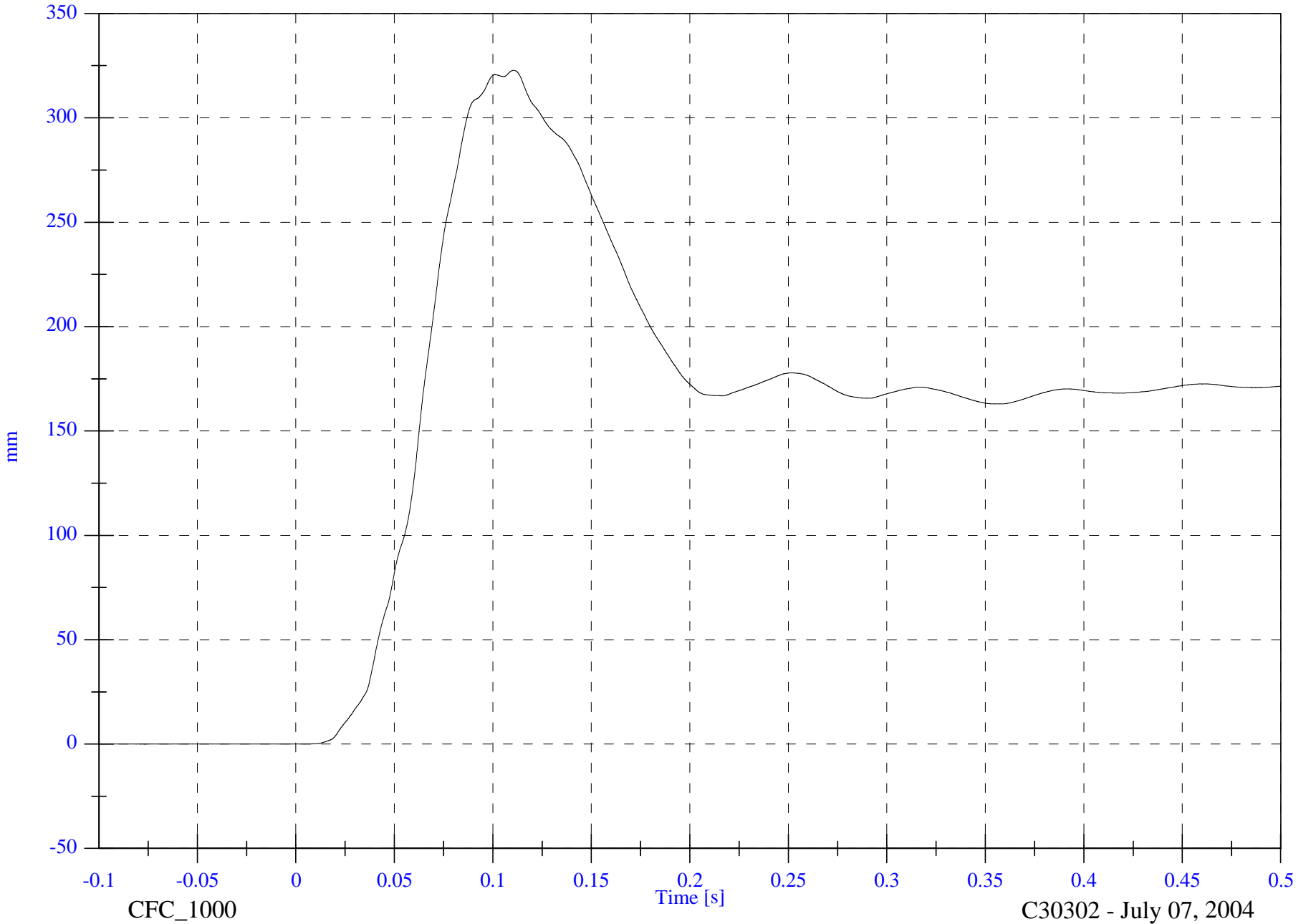
V2P1 Right Span Bar D

Max: 322.7 [mm] at 0.111 [s]

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

B-116

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

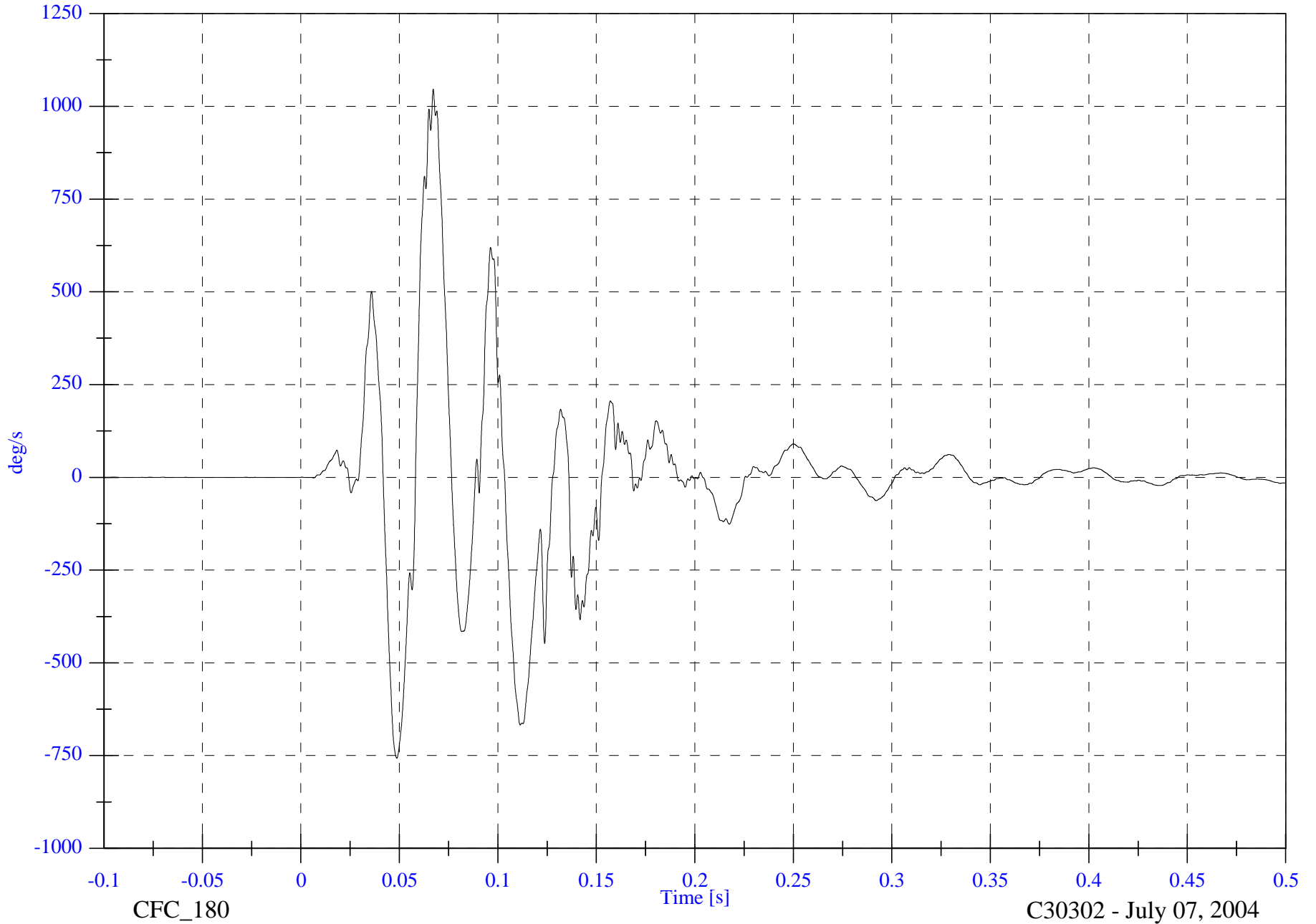
V2P3 Left Seat AVy

Max: 1046.1 [deg/s] at 0.067 [s]

Min: -756.8 [deg/s] at 0.049 [s]

B-117

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

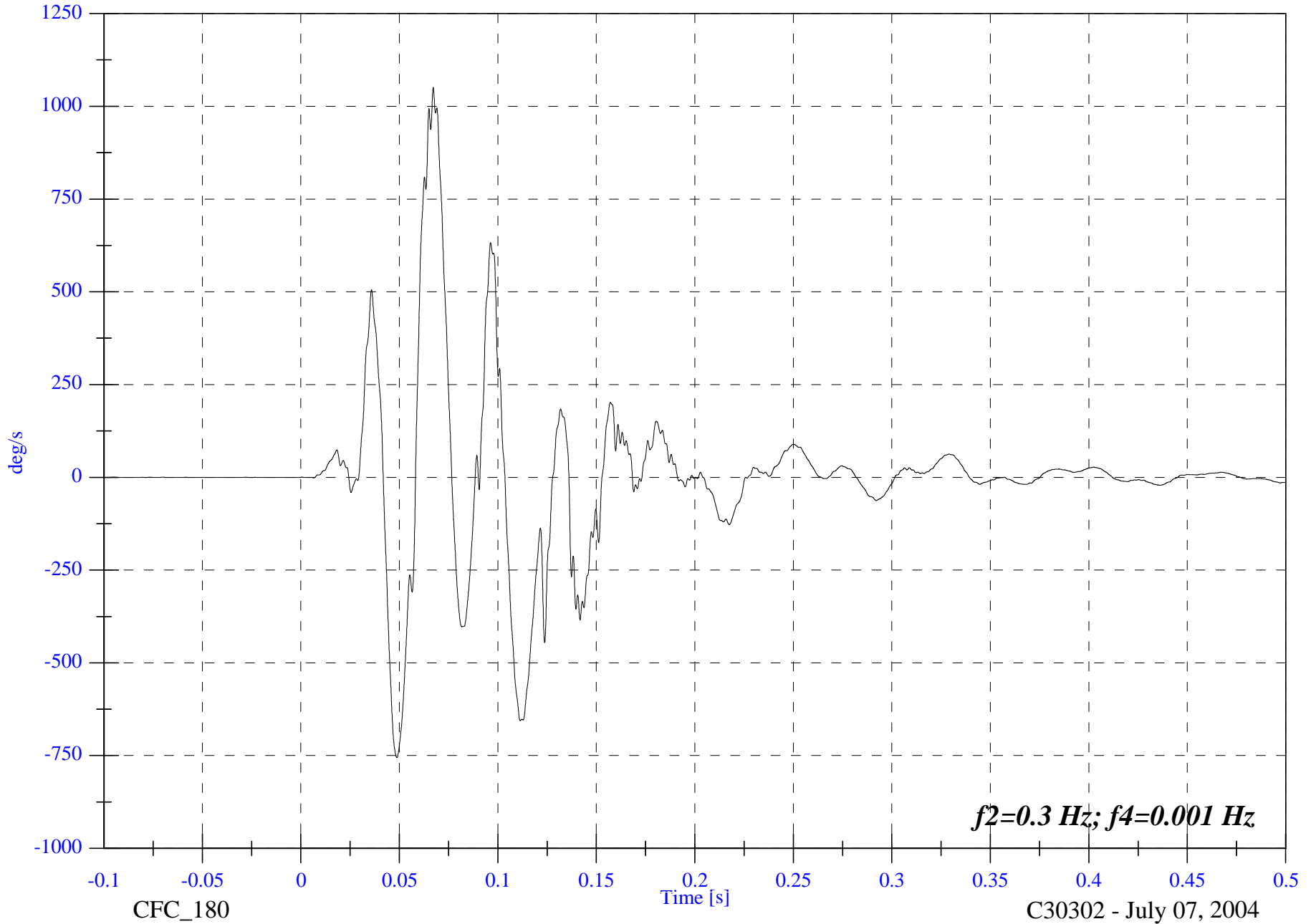
V2P3 Left Seat Comp AVy

Max: 1051.0 [deg/s] at 0.067 [s]

Min: -755.6 [deg/s] at 0.049 [s]

B-118

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

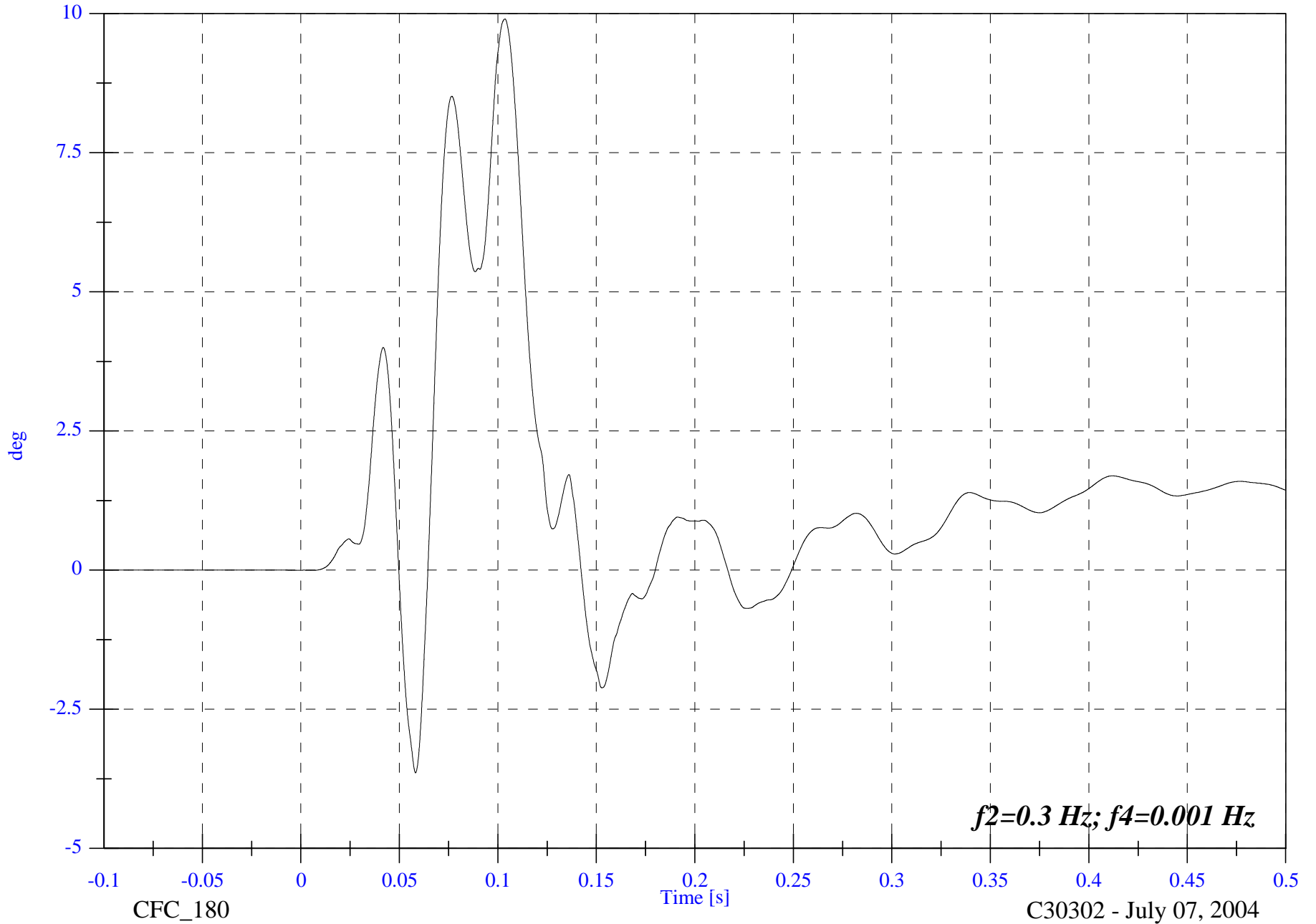
V2P3 Left Seat Comp ADy

Max: 9.9 [deg] at 0.104 [s]

Min: -3.6 [deg] at 0.058 [s]

B-119

8655-F301-23R



$f_2=0.3 \text{ Hz}; f_4=0.001 \text{ Hz}$

CFC_180

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

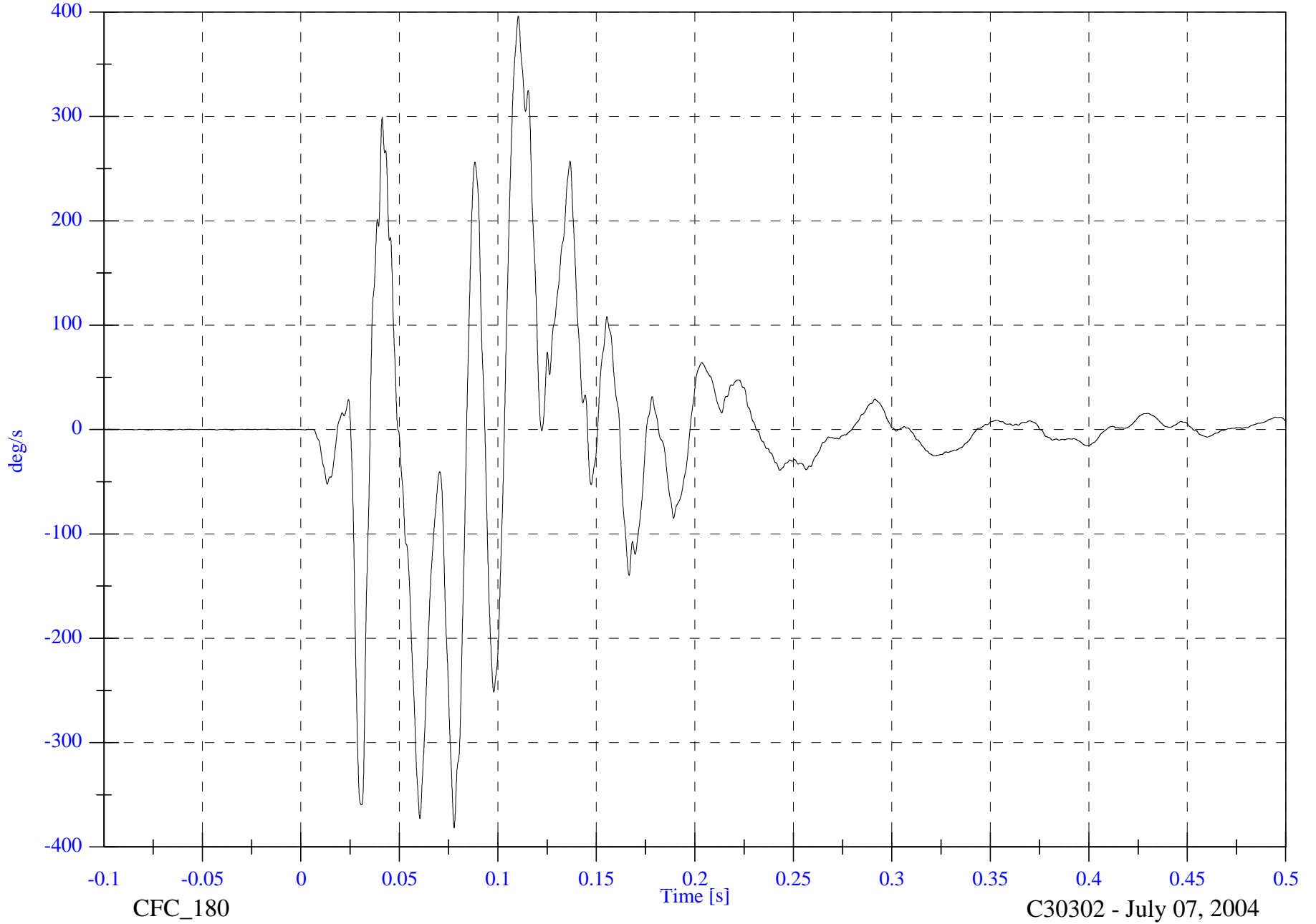
V2P3 Right Seat AVy

Max: 396.2 [deg/s] at 0.110 [s]

Min: -381.7 [deg/s] at 0.078 [s]

B-120

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

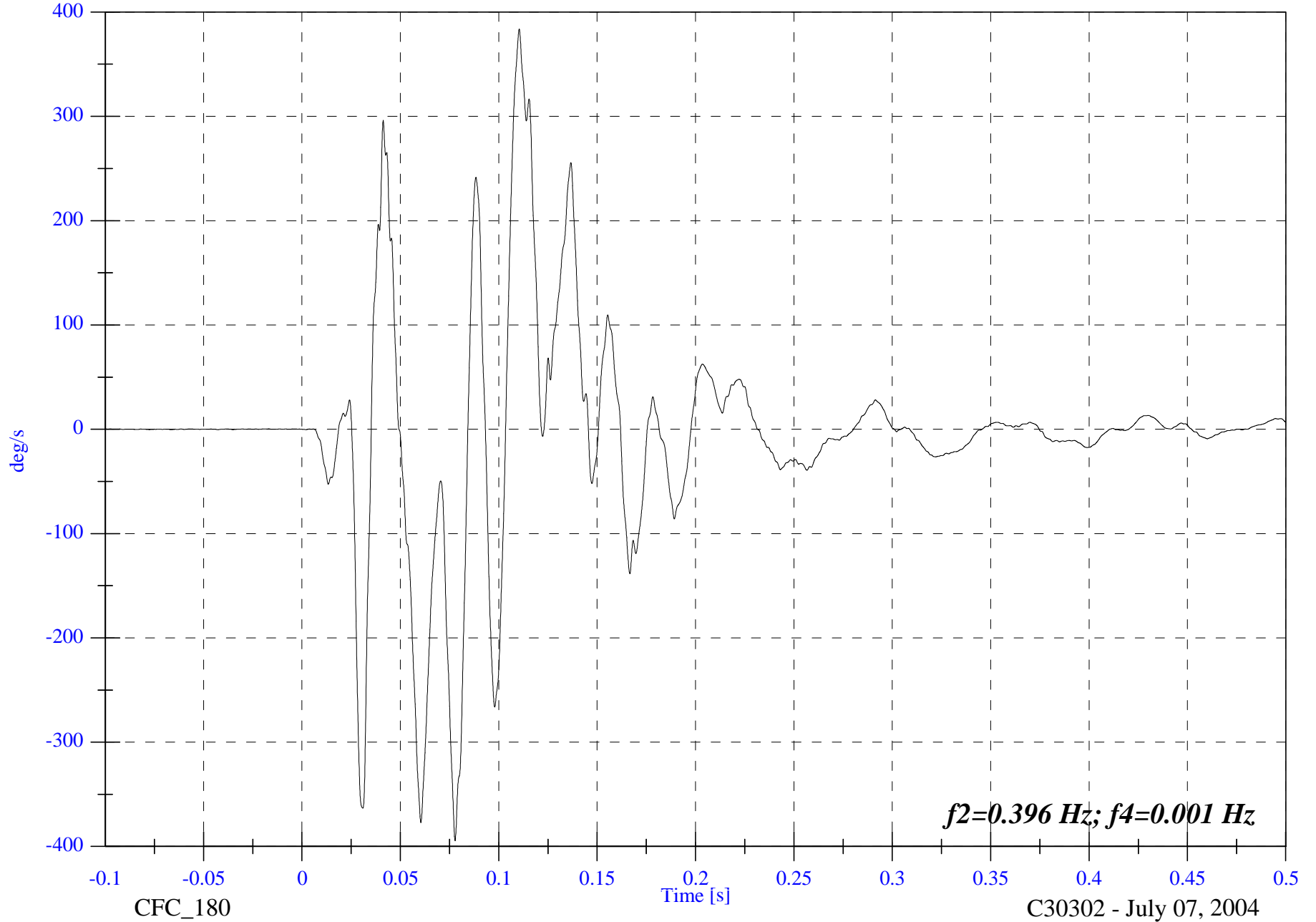
V2P3 Right Seat Comp AVy

Max: 383.8 [deg/s] at 0.110 [s]

Min: -394.5 [deg/s] at 0.078 [s]

B-121

8655-F301-23R



CFC_180

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

V2P3 Right Seat Comp ADy

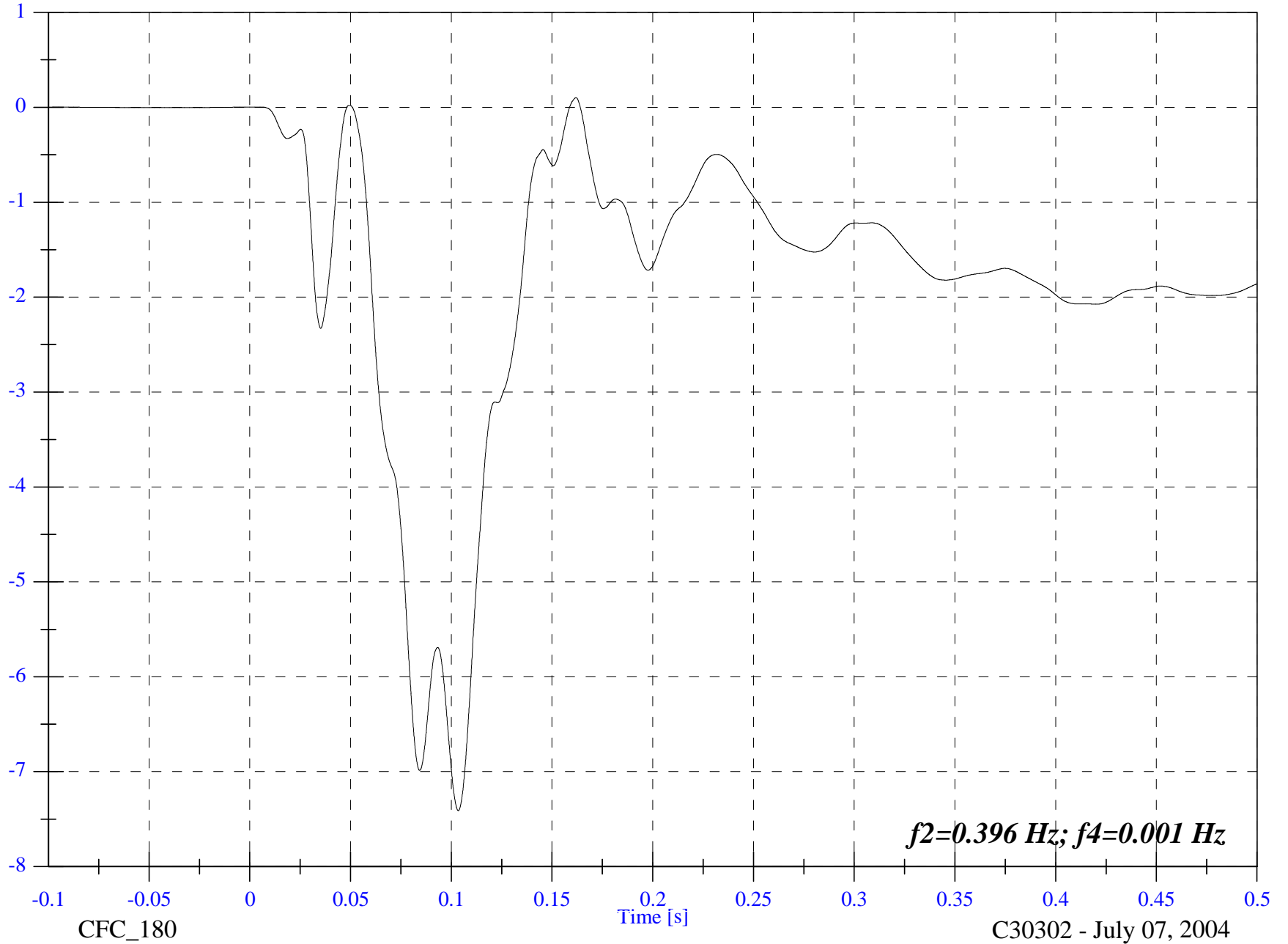
Max: 0.1 [deg] at 0.162 [s]

Min: -7.4 [deg] at 0.103 [s]

B-122

8655-F301-23R

gap



CFC_180

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

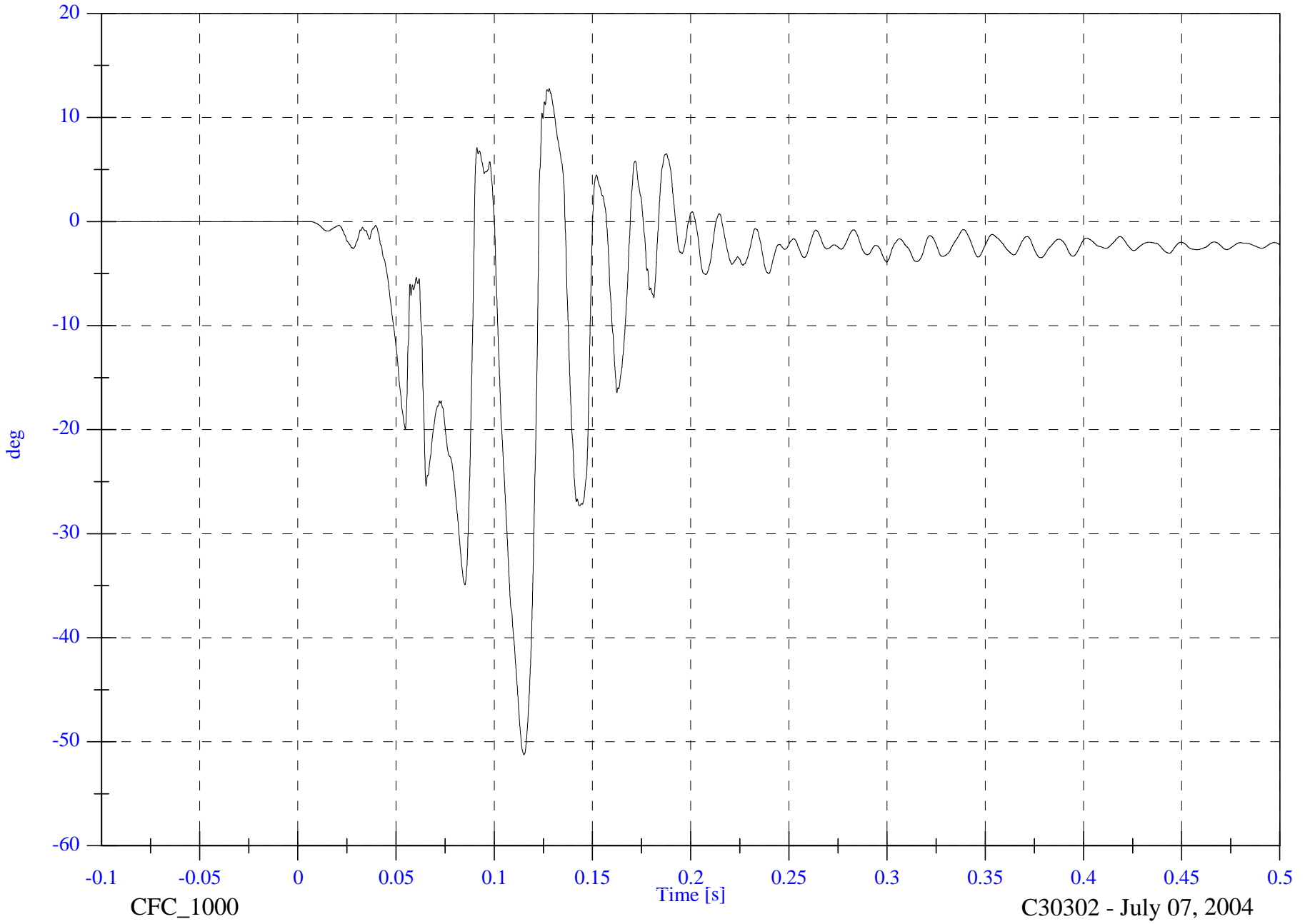
V2P3 Left Link ADy

Max: 12.8 [deg] at 0.128 [s]

Min: -51.2 [deg] at 0.115 [s]

B-123

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

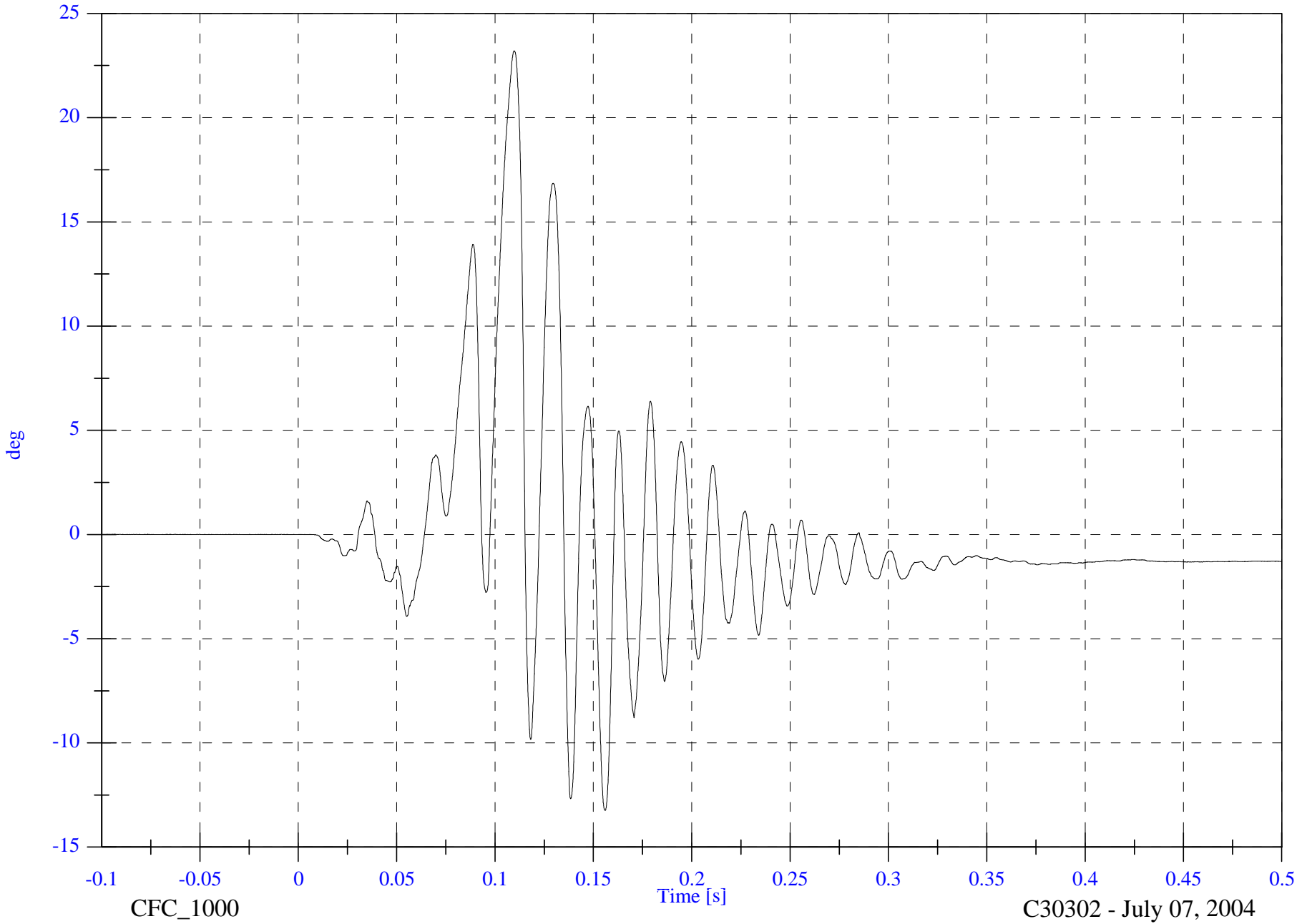
V2P3 Right Link ADy

Max: 23.2 [deg] at 0.110 [s]

Min: -13.2 [deg] at 0.156 [s]

B-124

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

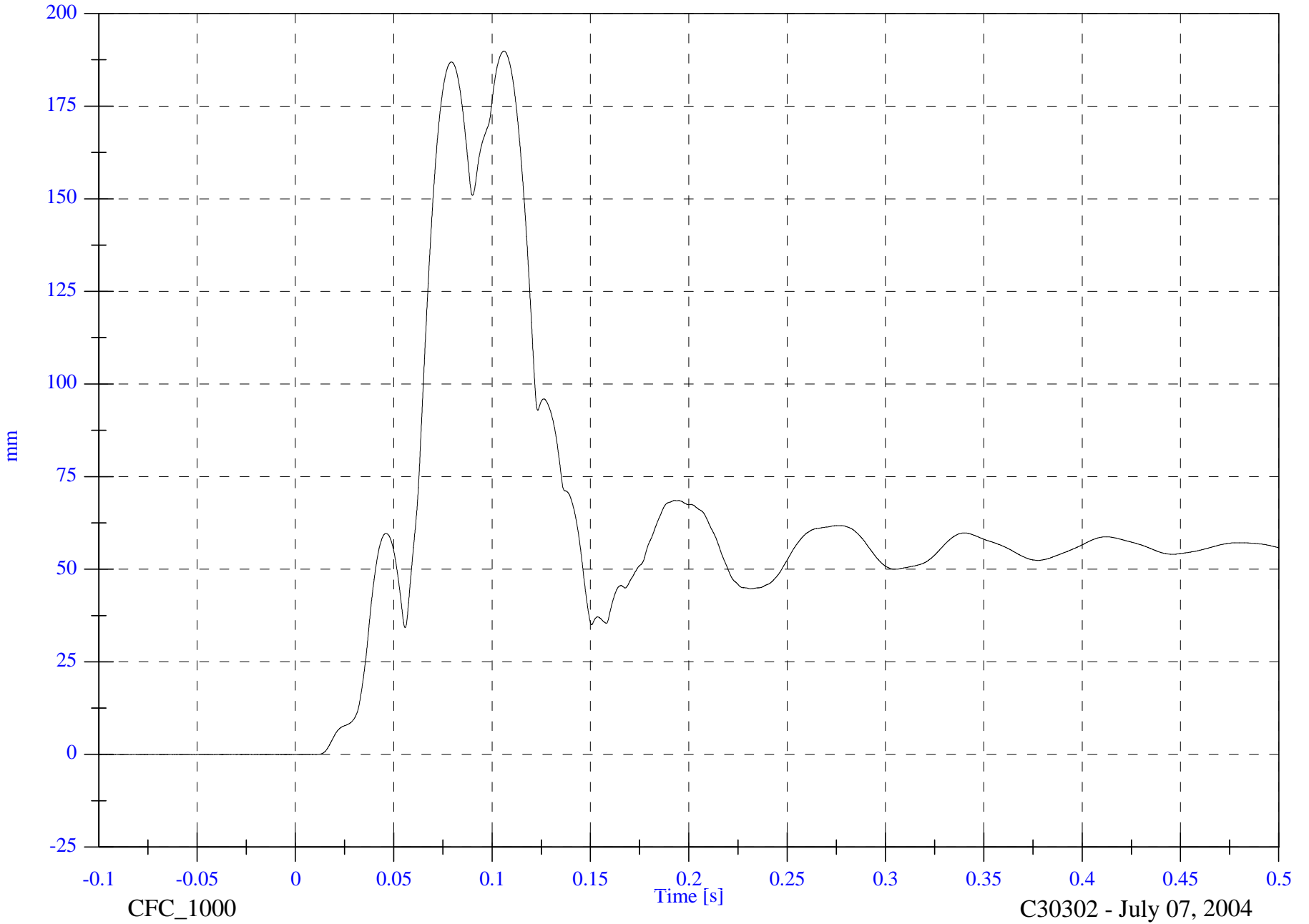
V2P3 Left Span Bar D

Max: 189.9 [mm] at 0.106 [s]

Min: -0.0 [mm] at -0.077 [s]

B-125

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

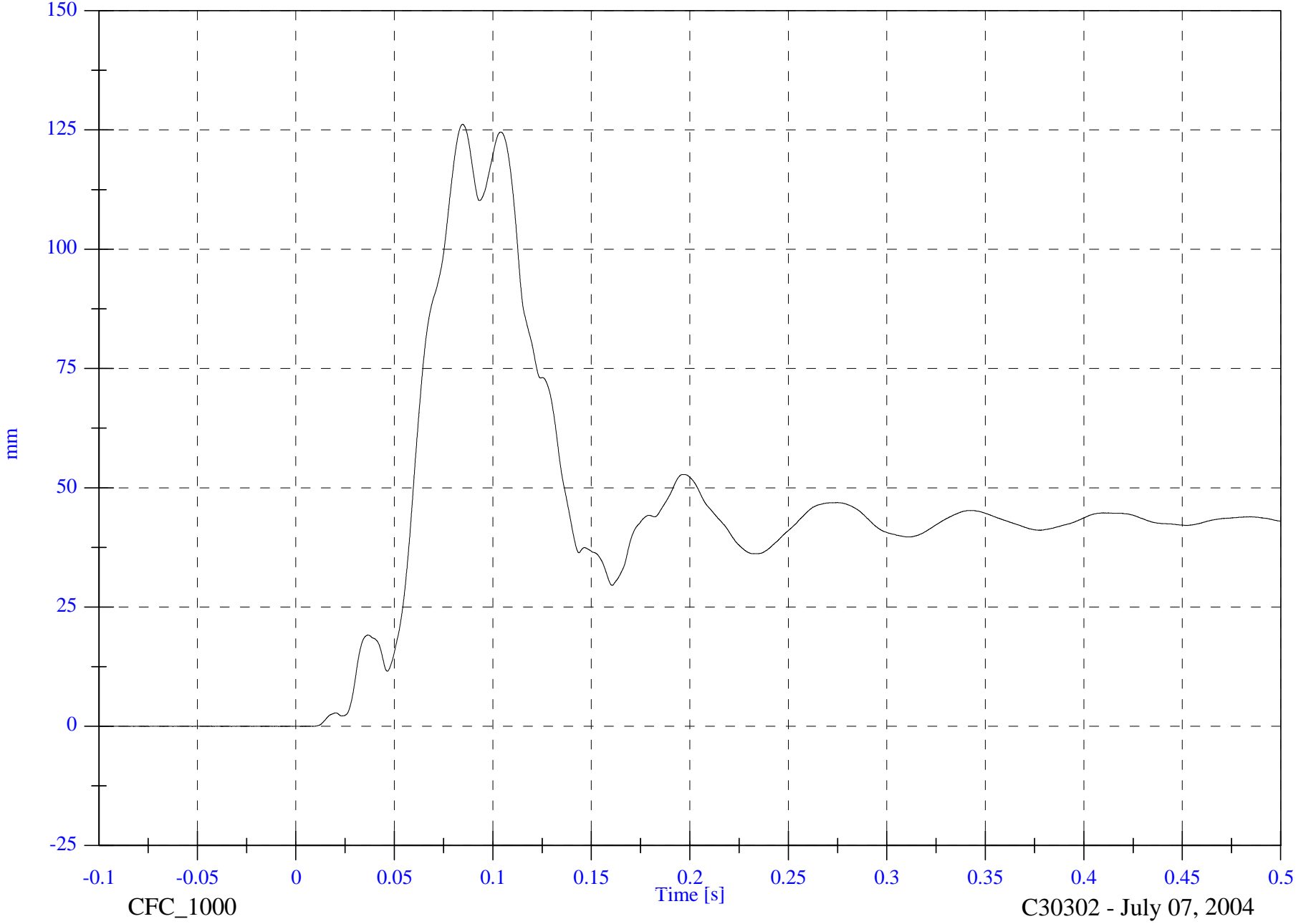
V2P3 Right Span Bar D

Max: 126.2 [mm] at 0.085 [s]

Min: -0.0 [mm] at -0.077 [s]

B-126

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

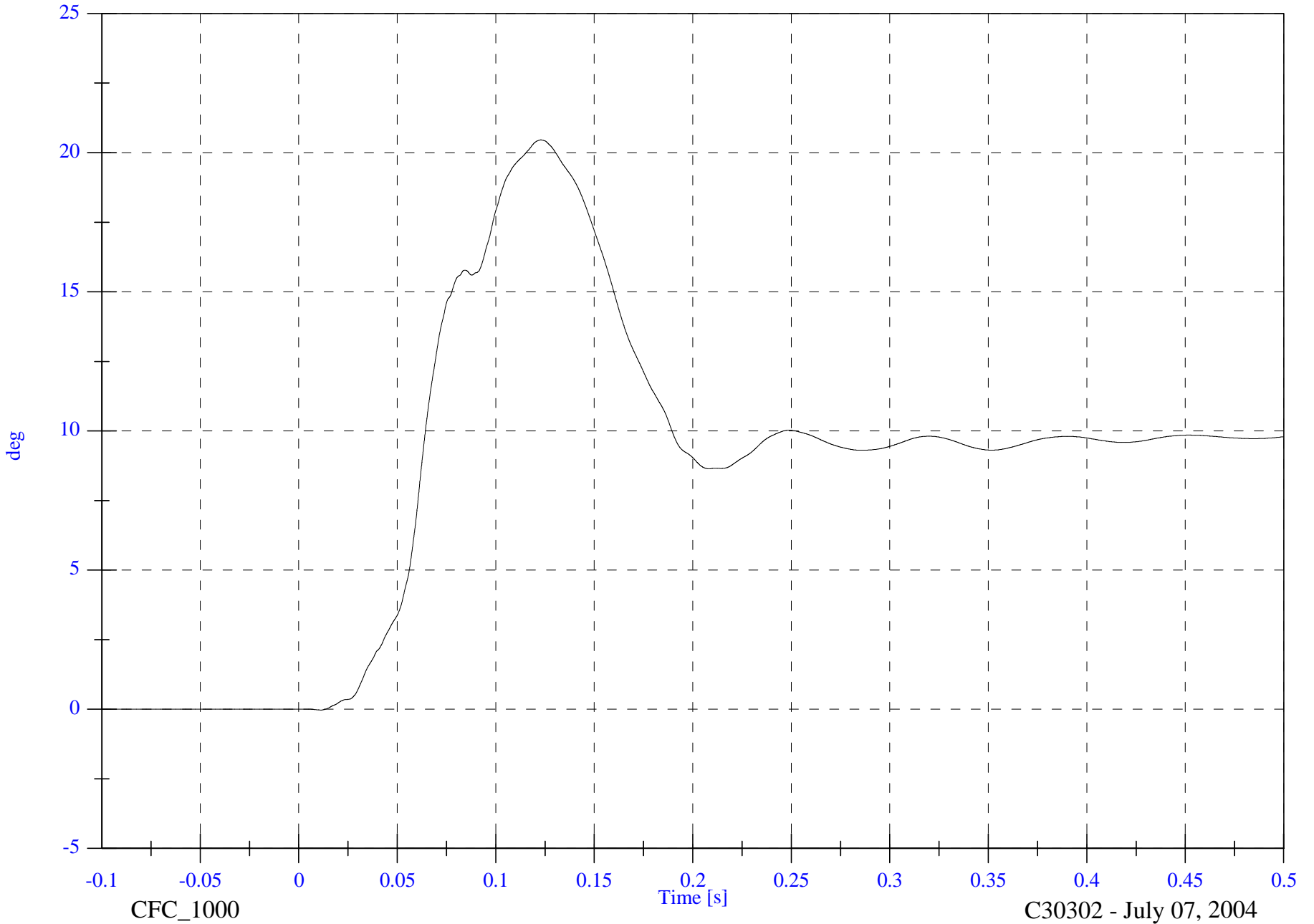
P1 Left Change in Seat Back Angle WRT Sill

Max: 20.5 [deg] at 0.123 [s]

Min: -0.0 [deg] at 0.011 [s]

B-127

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

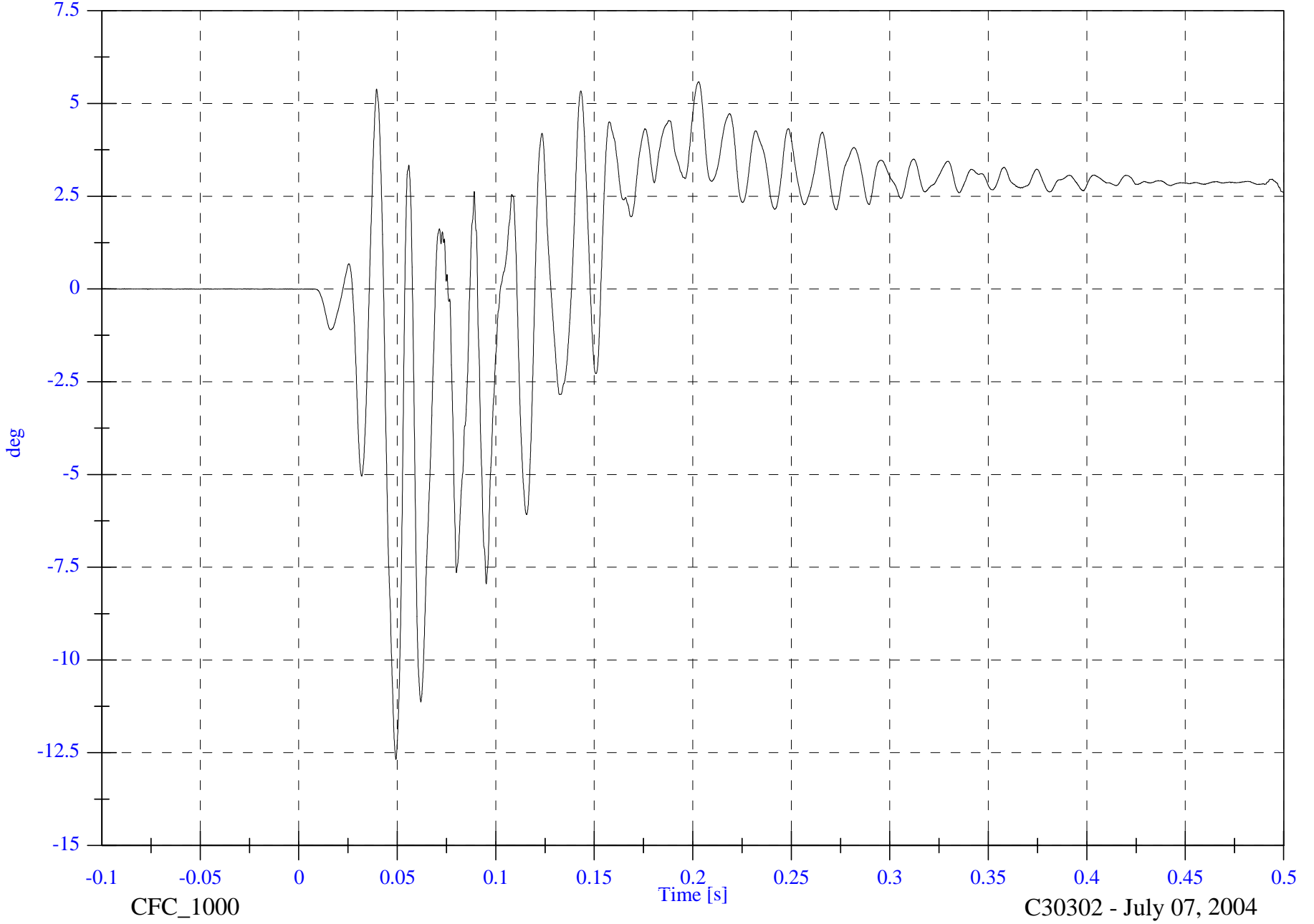
P1 Left Change in String Angle

Max: 5.6 [deg] at 0.203 [s]

Min: -12.7 [deg] at 0.049 [s]

B-128

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

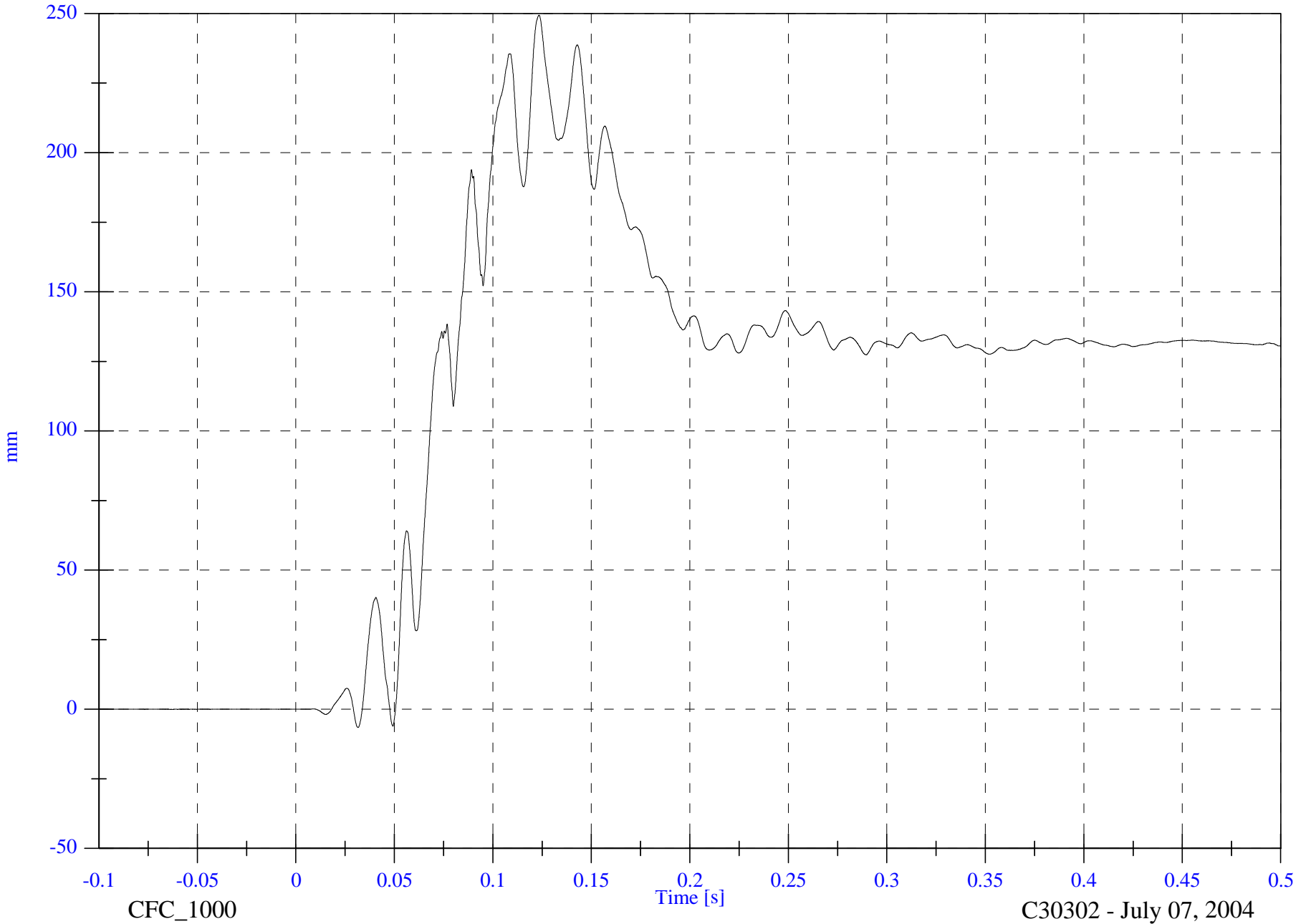
Max: 249.4 [mm] at 0.123 [s]

P1 Left Seat X Displacement

Min: -6.6 [mm] at 0.032 [s]

B-129

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

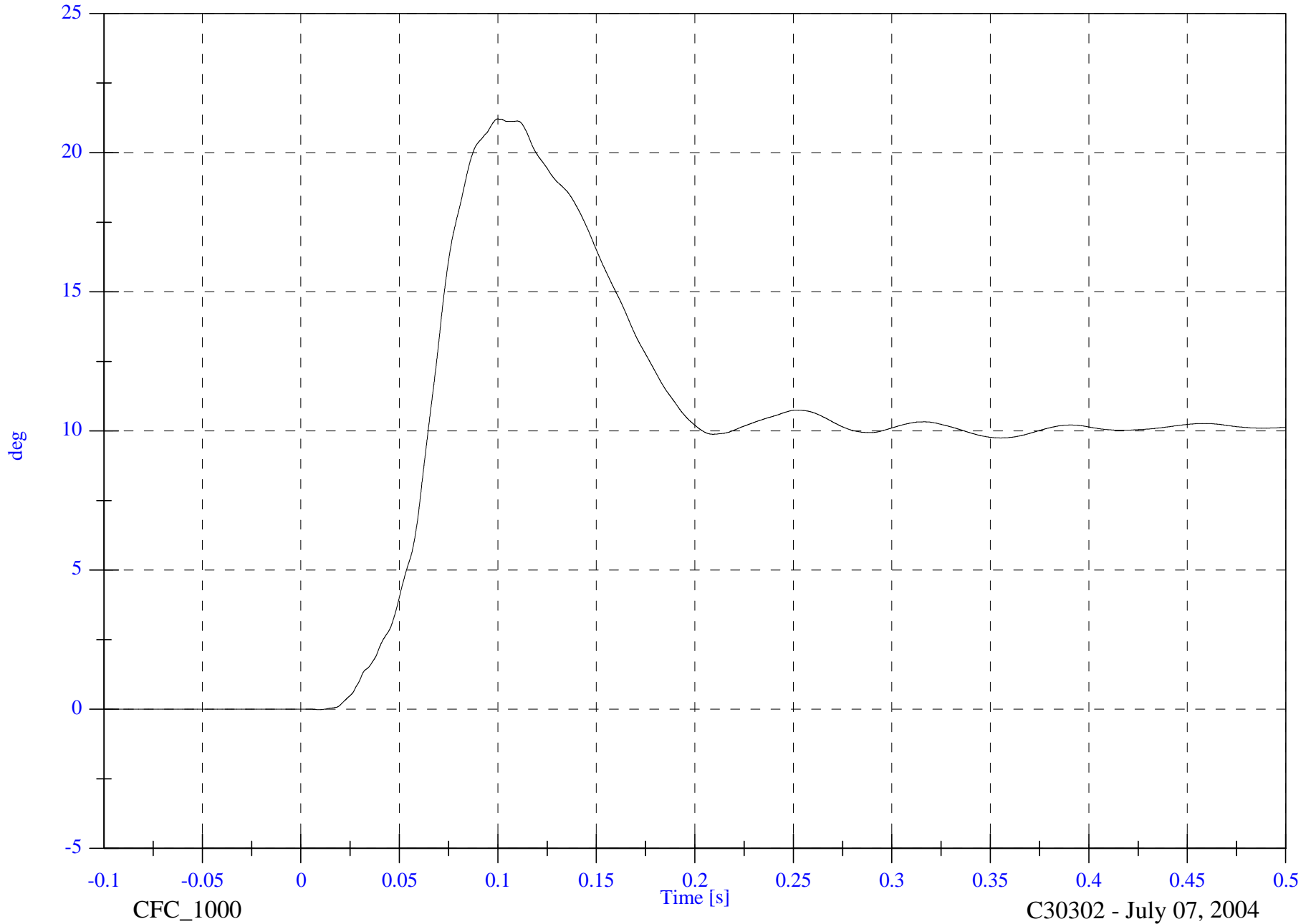
P1 Right Change in Seat Back Angle WRT Sill

Max: 21.2 [deg] at 0.100 [s]

Min: -0.0 [deg] at 0.009 [s]

B-130

8655-F301-23R



CFC_1000

Time [s]

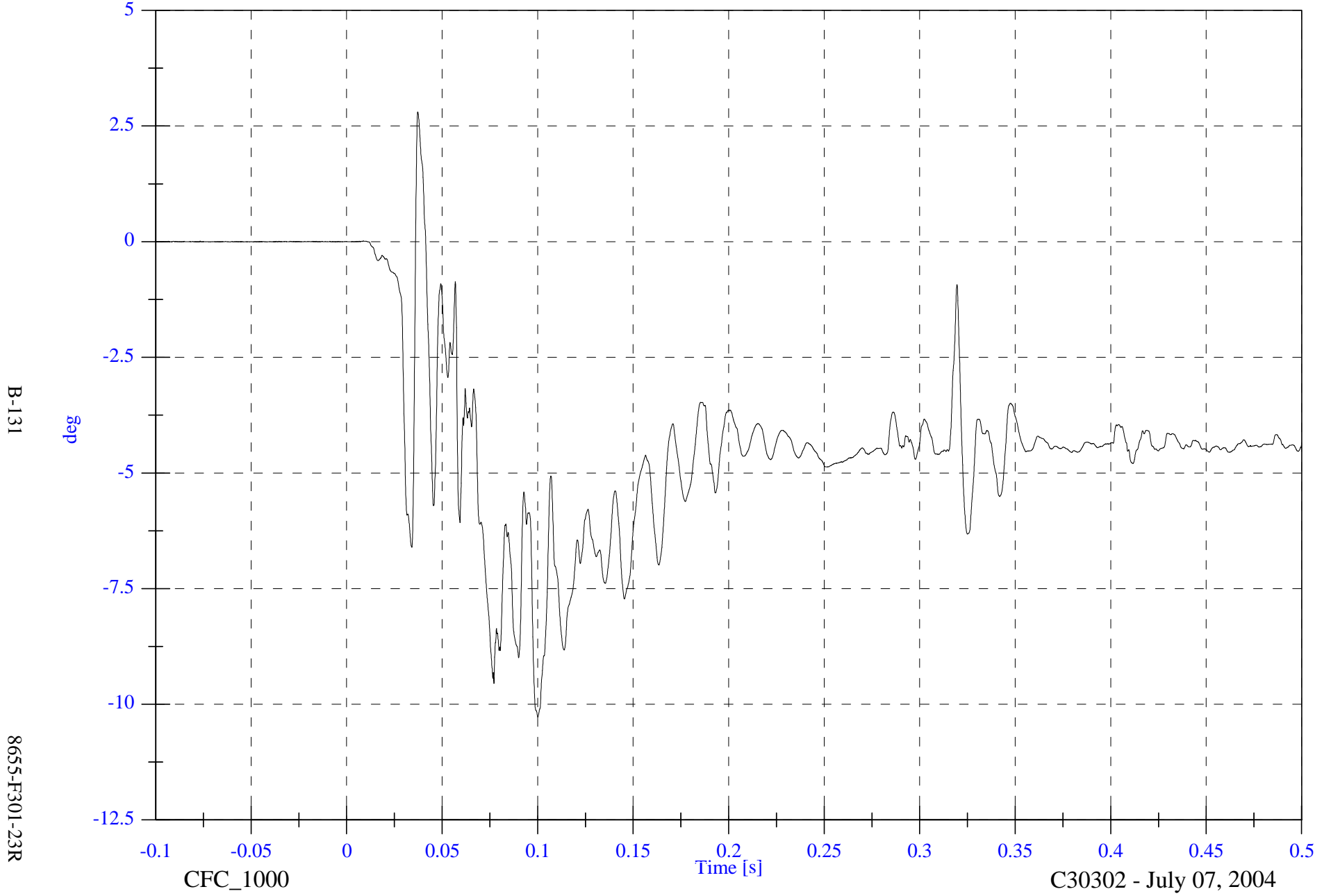
C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

P1 Right Change in String Angle

Max: 2.8 [deg] at 0.037 [s]

Min: -10.3 [deg] at 0.100 [s]



B-131

8655-F301-23R

CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

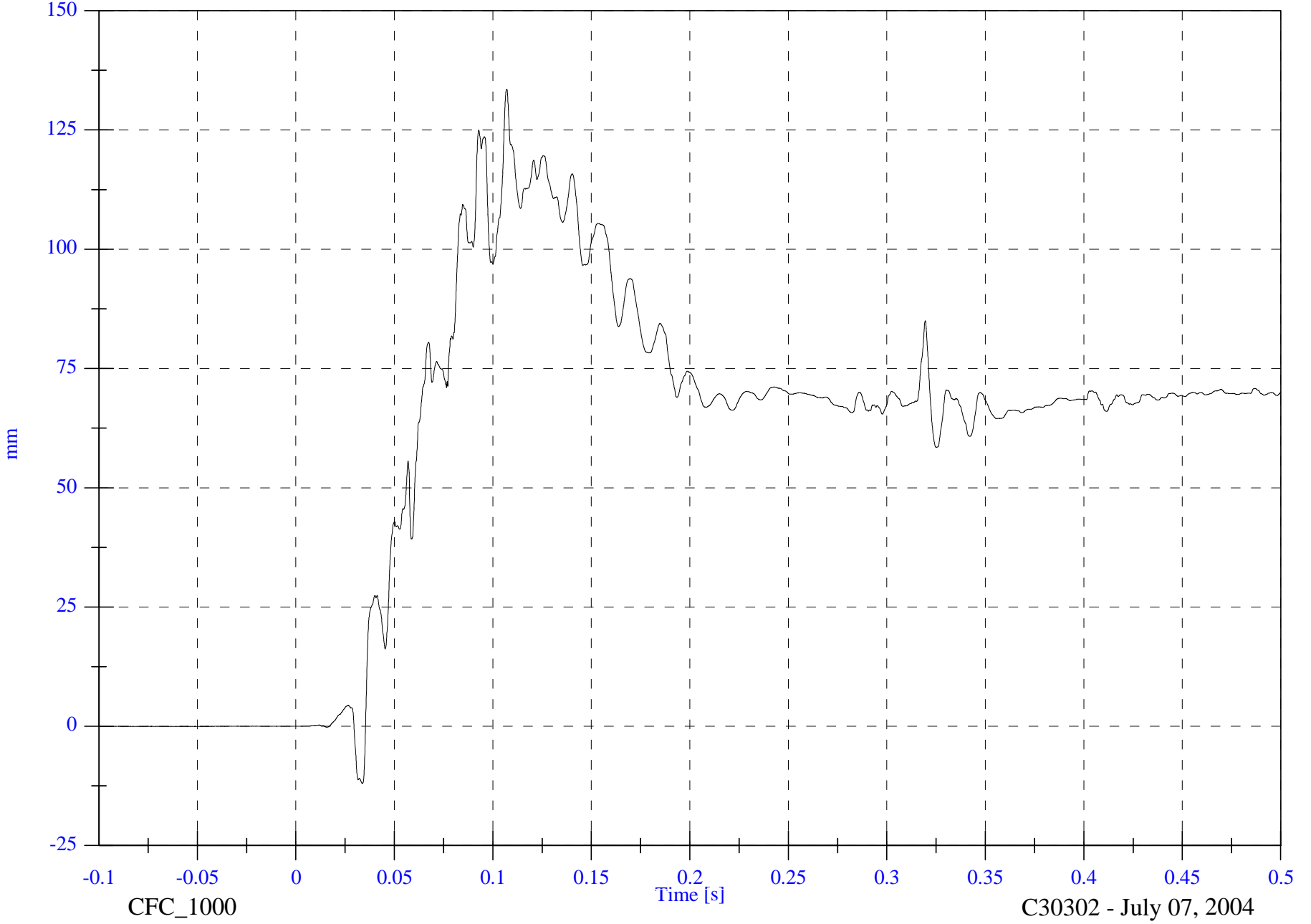
P1 Right Seat X Displacement

Max: 133.5 [mm] at 0.107 [s]

Min: -12.0 [mm] at 0.034 [s]

B-132

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

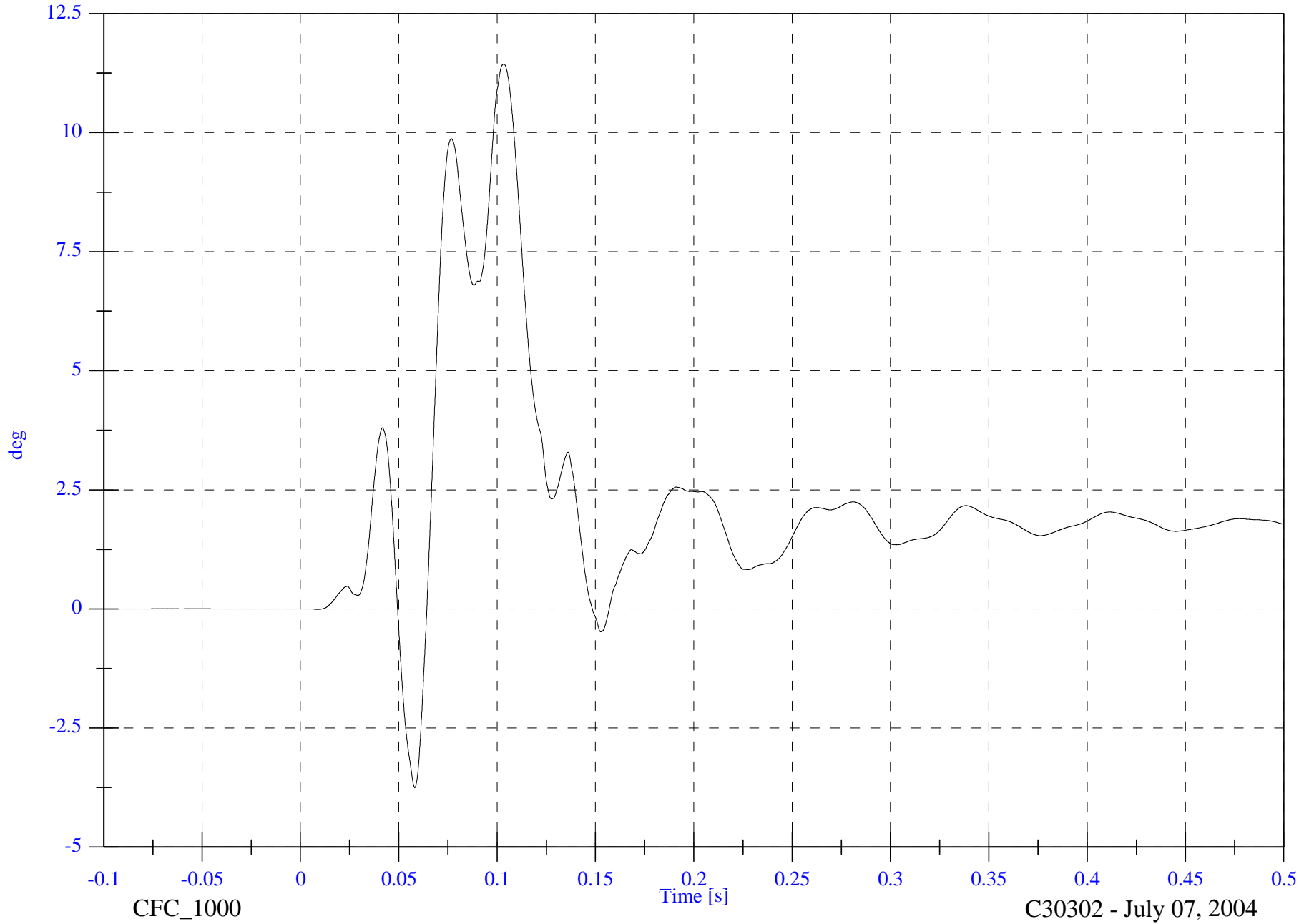
P3 Left Change in Seat Back Angle WRT Sill

Max: 11.4 [deg] at 0.103 [s]

Min: -3.8 [deg] at 0.058 [s]

B-133

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

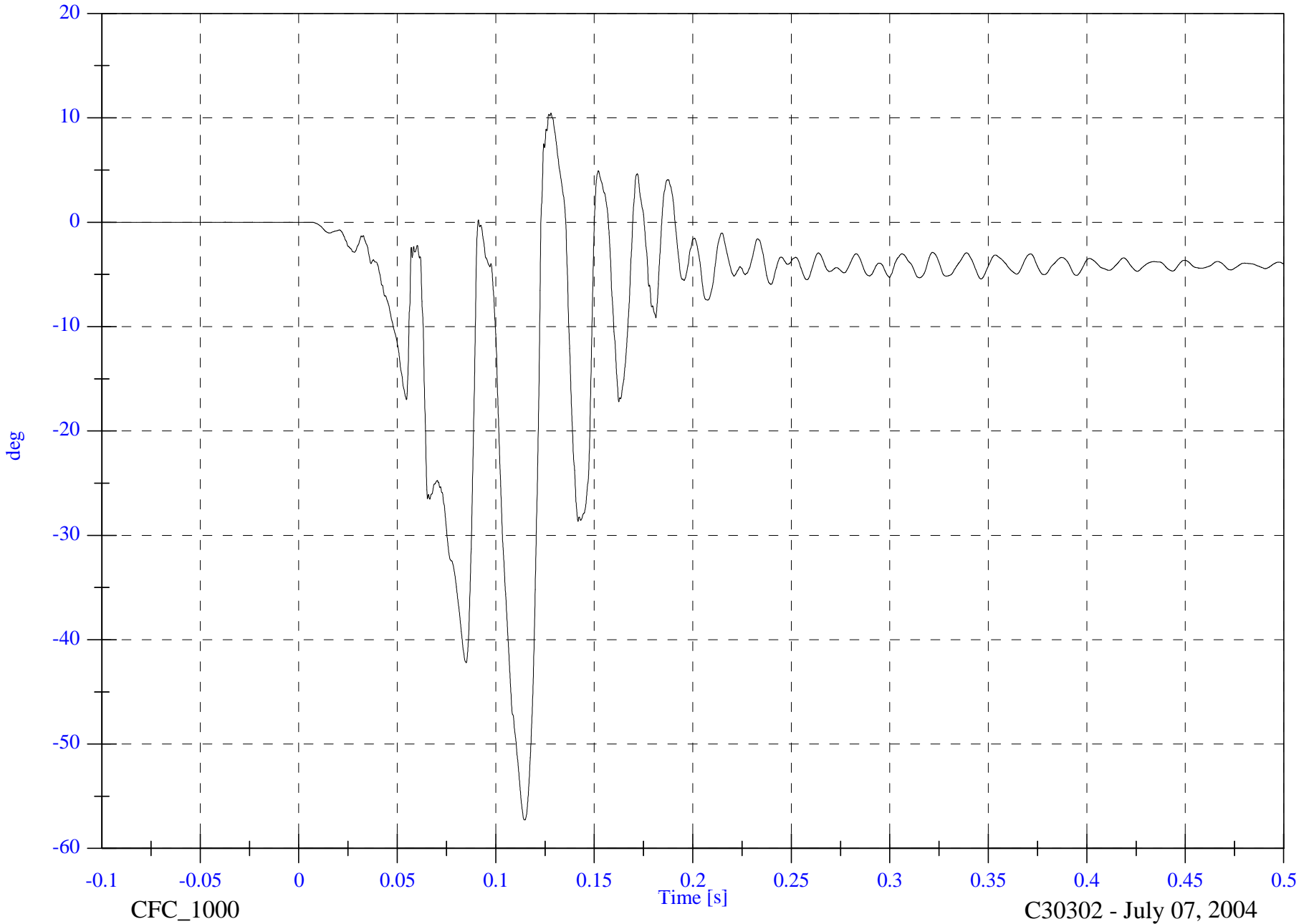
P3 Left Change in String Angle

Max: 10.5 [deg] at 0.128 [s]

Min: -57.3 [deg] at 0.114 [s]

B-134

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

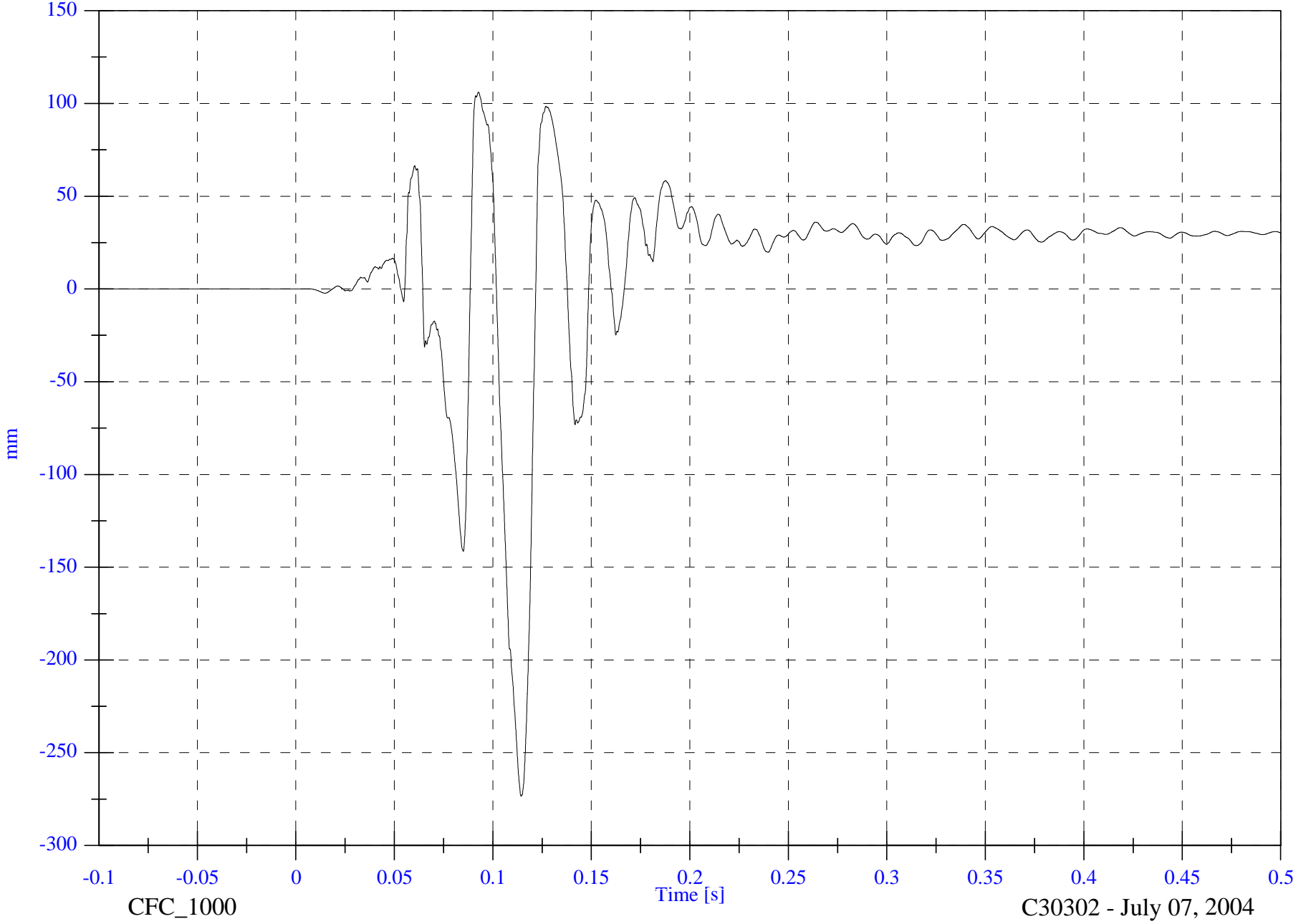
P3 Left Seat X Displacement

Max: 106.1 [mm] at 0.093 [s]

Min: -273.5 [mm] at 0.114 [s]

B-135

8655-F301-23R



C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

P3 Right Change in Seat Back Angle WRT Sill

Max: 1.8 [deg] at 0.162 [s]

Min: -5.9 [deg] at 0.104 [s]

B-136

8655-F301-23R



CFC_1000

Time [s]

C30302 - July 07, 2004

FMVSS301 Test 9 - 2004 Jeep Liberty

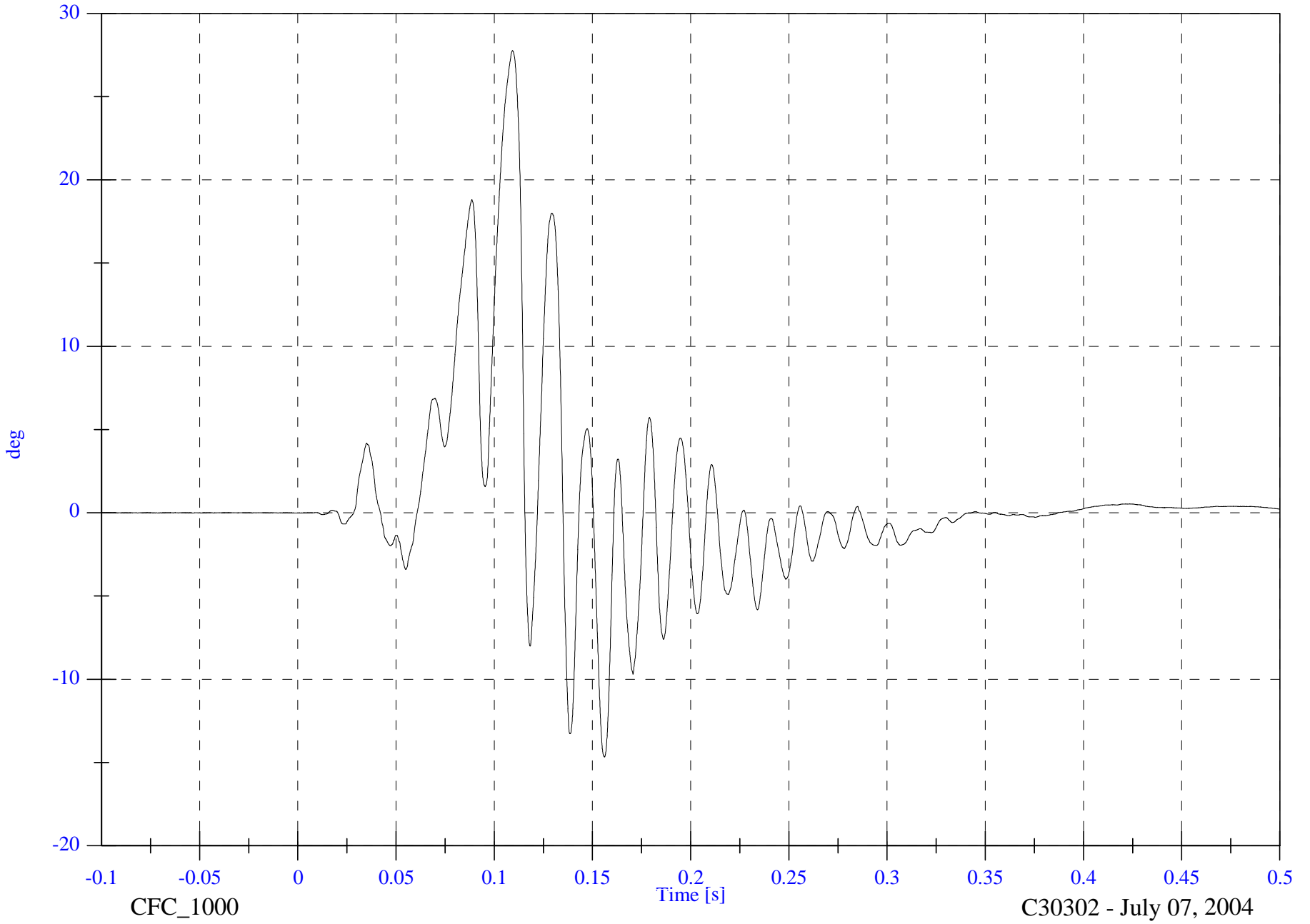
P3 Right Change in String Angle

Max: 27.8 [deg] at 0.109 [s]

Min: -14.7 [deg] at 0.156 [s]

B-137

8655-F301-23R



FMVSS301 Test 9 - 2004 Jeep Liberty

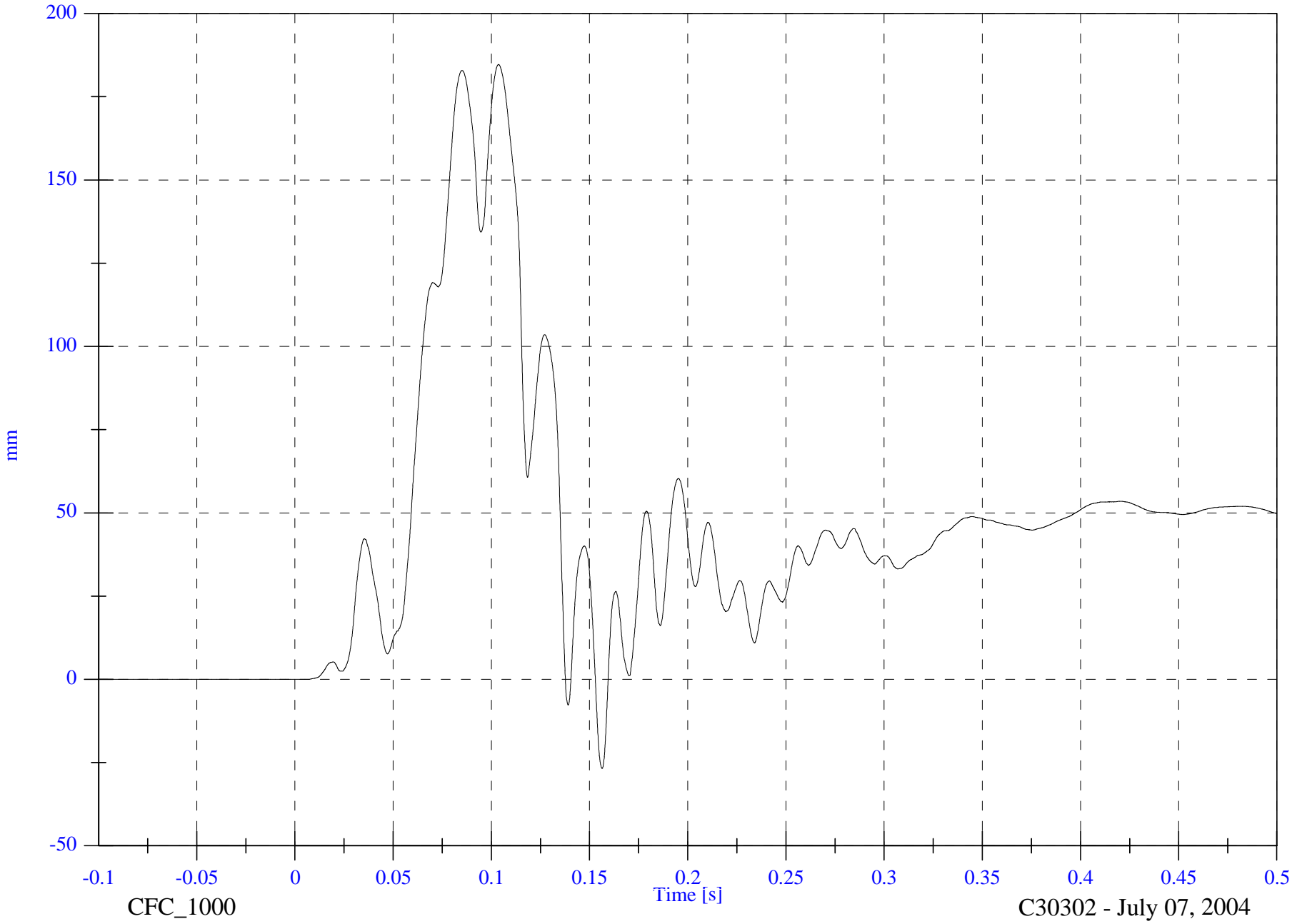
P3 Right Seat X Displacement

Max: 184.7 [mm] at 0.104 [s]

Min: -26.8 [mm] at 0.156 [s]

B-138

8655-F301-23R



CFC_1000

C30302 - July 07, 2004