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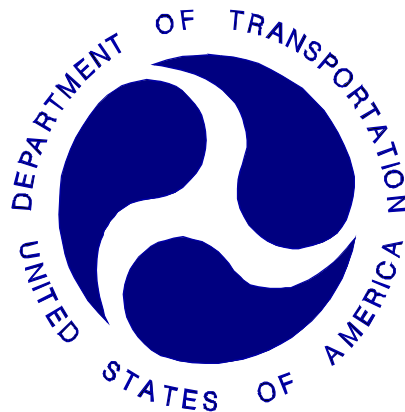
**NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST**

DAIMLERCHRYSLER
2004 CHRYSLER PACIFICA
MPV

NHTSA NUMBER: DC0300

VERIDIAN ENGINEERING TEST NUMBER: C42100-1001-2058

VERIDIAN ENGINEERING
TRANSPORTATION SCIENCES CENTER
P.O. BOX 400
BUFFALO, NEW YORK 14225



April 1, 2003

FINAL REPORT

U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Rulemaking
Office of Crashworthiness Standards
Mail Code: NVS-111
400 Seventh Street, SW, Room No. 5313
Washington, DC 20590

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Prepared By:

Patrick G. MacDiarmid, Jr., Project Engineer

Approved By:

David J. Travale, Program Manager
Transportation Sciences Center

Approval Date:

FINAL REPORT ACCEPTANCE BY:

Accepted By:

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16. Abstract A 55/28 kph 90° Impact Moving Deformable Barrier NCAP Side Impact Test was conducted on the subject 2004 Chrysler Pacifica MPV in accordance with the specifications of the Office of Crashworthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. This test was conducted at the Veridian Engineering Crash Test Facility in Buffalo, New York, on April 1, 2003. The impact velocity of the Moving Deformable Barrier (MDB) was 61.8 kph, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 20°C. The target vehicle post-test maximum crush was 335 mm at level 3. The test or target vehicle's performance is given below: <table border="0"> <thead> <tr> <th></th><th><u>Front SID H3</u></th><th></th><th><u>Rear SID H3</u></th></tr> </thead> <tbody> <tr> <td>Left Upper Rib Acceleration:</td><td align="center">24.6</td><td align="center">g's</td><td align="center">31.2</td></tr> <tr> <td>Left Lower Rib Acceleration:</td><td align="center">27.3</td><td align="center">g's</td><td align="center">36.9</td></tr> <tr> <td>Lower Spine Acceleration:</td><td align="center">35.9</td><td align="center">g's</td><td align="center">41.2</td></tr> <tr> <td>Thoracic Trauma Index (TTI):</td><td align="center">32</td><td align="center">g's</td><td align="center">39</td></tr> <tr> <td>Pelvis Acceleration (PEV):</td><td align="center">41</td><td align="center">g's</td><td align="center">51</td></tr> </tbody> </table> The two doors on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite doors did not open during the side impact event.					<u>Front SID H3</u>		<u>Rear SID H3</u>	Left Upper Rib Acceleration:	24.6	g's	31.2	Left Lower Rib Acceleration:	27.3	g's	36.9	Lower Spine Acceleration:	35.9	g's	41.2	Thoracic Trauma Index (TTI):	32	g's	39	Pelvis Acceleration (PEV):	41	g's	51
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17. Key Words New Car Assessment Program (NCAP) Side Impact MDB Side Impact Dummy (SID)		18. Distribution Statement <u>Copies of this report are available from:</u> National Highway Traffic Safety Administration Technical Reference Division Room 5108 (NAD-52) 400 Seventh St., S.W. Washington, D.C. 20590 Telephone No. (202) 366-4946 ATTN: Robert Hornicle																									
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SECTION 1

PURPOSE AND TEST PROCEDURE

This side impact test is part of the FY2001 New Car Assessment Program Side Impact Protection sponsored by the National Highway Traffic Safety Administration (NHTSA). The purpose of this test was to generate comparative side impact performance in a 2004 Chrysler Pacifica MPV. The test was conducted in accordance with the Office of Crashworthiness Standards' Laboratory Test Procedure dated July 1997.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

A 2004 Chrysler Pacifica MPV was impacted on the left or driver's side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the monorail at a velocity of 61.8 kph (38.4 mph). The target vehicle was stationary and was positioned at an angle of 63° to the line of forward motion. The side impact test was conducted by the Veridian Engineering Transportation Sciences Center in Buffalo, New York on April 1, 2003. Pre- and post-test photographs of the test vehicle, the moving deformable barrier (MDB), and the Side Impact Hybrid III Dummies (SID H3s) are included in Appendix A.

Two restrained Side Impact Hybrid III Dummies (SID H3s) were placed in the driver (Pos. #1) and left rear (Pos. #4) designated seating positions according to the instructions specified in the OCWS Side Impact Laboratory Test Procedure which is dated July, 1997. The side impact test was documented by one real-time camera and 9 high-speed cameras. Camera locations and other pertinent camera information are included in this report.

The SID H3s were instrumented with the following accelerometers:

1. Left Upper Rib (LUR) uniaxial and redundant accelerometer (Y-direction)
2. Left Lower Rib (LLR) uniaxial and redundant accelerometer (Y-direction)
3. Lower Thoracic Spine (T₁₂) uniaxial and redundant accelerometer (Y-direction)
4. Pelvic (PEV) section uniaxial and redundant accelerometer (Y-direction)
5. Head triaxial accelerometers (X-, Y- and Z-direction)
6. Upper neck force and moment (X-, Y and Z-direction) load cells

A summary of the Side Impact Hybrid III Dummy (SID H3) configuration and verification test data can be found in Appendix C. A total of 65 channels of data were recorded. Appendix B contains the vehicle, MDB and dummy response data traces.

The following table summarizes the results of the test.

Injury Criteria	Front SID H3	Rear SID H3
TTI (g)	32	39
PEV (g)	41	51

AIR BAG DEPLOYMENT STATUS

	DRIVER	FRONT PASSENGER	REAR PASSENGER
Front Air Bag	No	No	N/A
Knee Bolster Bag	N/A	N/A	N/A
Side Air Bag	N/A	N/A	N/A
Side Curtain Bag	Yes	No	Yes

SECTION 3

SUMMARY OF TEST RESULTS

DATA SHEET 1

GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:

Year/Make/Model/Body Style: 2004 Chrysler Pacifica MPV
 Vehicle Body Color: Silver VIN: 2C8GF68474R175346
 Vehicle NHTSA No.: DC0300 Month & Year of Manufacture: 3-03
 Engine Data: 6 Cylinders; - CID; 3.5 Liters; - cc
 Engine Placement: - Longitudinal; or X Lateral
 Transmission: 4 Speed; - Manual; X Automatic; X Overdrive
 Final Drive: - Rear Wheel Drive; - Front Wheel Drive; X Four Wheel Drive
 Odometer Reading 19 km
 Supplemental Airbag Restraints:
 Front Occupant: X Frontal; - Knee; - Side; X Curtain
 Rear Occupant: X Frontal; - Knee; - Side; X Curtain

Options: X A/C; X Power Steering; X Power Brakes; X Power Windows

DATA FROM TIRE PLACARD

Recommended Tire Size: P235/65R17

*Recommended Cold Tire Pressure: 227 kPa FRONT; 227 kPa REAR

DATA FROM TIRE SIDEWALL:

Size of Tires on Test Vehicle: P235/65R17 103H ; Manufacturer: Michelin

Tire Pressure with Maximum Capacity Vehicle Load: Front: 300 kPa; Rear: 300 kPa

Treadwear: 400 ; Traction: A ; Temperature: A

VEHICLE CAPACITY DATA:

Number of Occupants: 2 Front; 4 Rear; 0 3rd Seat; 6 Total

Type of Front Seats: X Bucket; - Bench; - Split Bench

Type of Front Seat Back: - Fixed; X Adjustable with X Lever or - Knob

Vehicle Max Capacity Loading = 516.0 kg (A)

No. of Occupants x 68.04 kg. = 408.24 kg (B)

Vehicle Cargo Capacity = 107.76 kg (A-B)

TEST VEHICLE DELIVERED WEIGHT WITH MAXIMUM FLUIDS:

Left Front = 596.0 kg Left Rear = 480.5 kg

Right Front = 572.5 kg Right Rear = 466.0 kg

TOTAL FRONT = 1168.5 kg TOTAL REAR = 946.5 kg

% of Total Weight = 55.2% % % of Total Weight = 44.8 %

TOTAL WEIGHT = 2115.0 kg

* Tire pressure used in test.

DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:

Total Test Vehicle Delivered Weight with Max. Fluids	=	<u>2115.0</u>	kg (A)
Maximum Cargo Carrying Capacity of Test Vehicle	=	<u>107.76</u>	kg (B)
Weight of instrumented SID H3 Dummies (2 X 81.2 kg)	=	<u>162.4</u>	kg (C)
TEST VEHICLE TARGET WEIGHT:	=	<u>2385.16</u>	kg (A+B+C)

FULLY LOADED TEST VEHICLE (UDVW + 2 SID H3(s) + CARGO):

Left Front	=	<u>659.0</u>	kg	Left Rear	=	<u>601.0</u>	kg
Right Front	=	<u>574.0</u>	kg	Right Rear	=	<u>550.0</u>	kg
TOTAL FRONT	=	<u>1233.0</u>	kg	TOTAL REAR	=	<u>1151.0</u>	kg
% of Total Weight	=	<u>51.7%</u>	%	% of Total Weight	=	<u>48.3%</u>	%
TOTAL TEST WEIGHT =		<u>2384.0</u>	kg				

AS TESTED WEIGHT OF TEST VEHICLE (2 SID H3(s) + CARGO + EQUIPMENT & INSTRUMENTATION):

Left Front	=	<u>648.5</u>	kg	Left Rear	=	<u>577.0</u>	kg
Right Front	=	<u>560.5</u>	kg	Right Rear	=	<u>592.0</u>	kg
TOTAL FRONT	=	<u>1209.0</u>	kg	TOTAL REAR	=	<u>1169.0</u>	kg
% of Total Weight	=	<u>50.8%</u>	%	% of Total Weight	=	<u>49.2%</u>	%
TOTAL TEST WEIGHT =		<u>2378</u>	kg				

TEST VEHICLE ATTITUDE (all dimensions in millimeters):

AS DELIVERED:

Left Front	<u>829</u>	Right Front	<u>833</u>	Left Rear	<u>835</u>	Right Rear	<u>831</u>
------------	------------	-------------	------------	-----------	------------	------------	------------

FULLY LOADED:

Left Front	<u>813</u>	Right Front	<u>825</u>	Left Rear	<u>790</u>	Right Rear	<u>796</u>
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READY FOR TEST:

Left Front	<u>821</u>	Right Front	<u>825</u>	Left Rear	<u>794</u>	Right Rear	<u>798</u>
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Test Vehicle Wheelbase: 2960 millimeters

C.G. = 1455.11 millimeters rearward of front wheel centerline

TOTAL VEHICLE LENGTH:

Right Side =	<u>4865</u>	millimeters
Left Side =	<u>4865</u>	millimeters
Centerline =	<u>5050</u>	millimeters

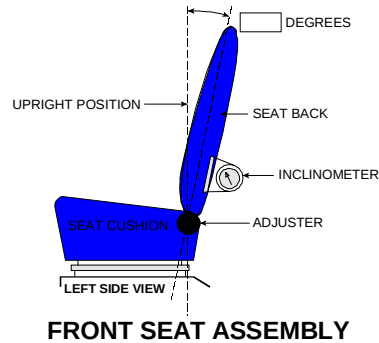
DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300

Nominal Design Riding Position for adjustable driver and passenger seat backs. Please describe how to position the inclinometer to measure the seat back angle. Include description of the location of the adjustment latch detent, if applicable.



FRONT SEAT CUSHION PLACEMENT: Mid-Position (105 mm)

Total Length of Adjustment Travel: 210 millimeters

Total Number of Adjustment Positions or Detents: Electronic

FRONT SEAT BACK ADJUSTMENT POSITION: 20°

Seat Back Torso Angle: 20 degrees

SECOND POSITION SEAT:

Total Length of Fore/Aft Adjustment Travel: 100 millimeters

Seat Back Adjustment Position: 22° Torso Angle

ADJUSTABLE STEERING COLUMN POSITION: 24°

WINDOW POSITIONS: Left Front: Closed Left Rear: Closed

Right Front: Open Right Rear: Open

Note: Windows will be in closed position on struck side of test vehicle and in open position on opposite side.

AMOUNT OF STODDARD SOLVENT IN FUEL TANK:

87.1 liters (Fuel Tank Usable Capacity)

80.6 liters used for test (92%-94% of Fuel Tank Usable Capacity)

LOCATION OF IMPACT POINT ON TEST VEHICLE SIDE TO BE IMPACTED:

Wheelbase = 2960 millimeters

Impact Point is 508 millimeters rearward of front axle centerline
(which is 940 millimeters forward of the wheelbase midpoint)

Actual Impact Point is 508 millimeters rearward of front axle centerline

DATA SHEET 2

TEST VEHICLE SUMMARY OF RESULTS

VEHICLE IDENTIFICATION:

Vehicle Year/Make/Model: 2004 Chrysler Pacifica

Body Style: MPV

VIN: 2C8GF68474R175346

NHTSA No.: DC0300

Test Date: April 1, 2003

Overall Length = 5050 millimeters; Overall Width = 1990 millimeters

VEHICLE TEST WEIGHT (Pre-Test):

Left Front = 648.5 kg Left Rear = 577.0 kg

Right Front = 560.5 kg Right Rear = 592.0 kg

TOTAL FRONT = 1209.0 kg TOTAL REAR = 1169.0 kg

TOTAL VEHICLE WEIGHT 2378.0 kg

Wheelbase = 2960 millimeters

Longitudinal C.G. from Center of Front Axle = 1455.11 millimeters

Impact Angle with Respect to Impactor = 90 degrees

ACTUAL IMPACT POINT

Actual Impact Point is 0 mm on the nominal impact ref. line (Lateral)

Actual Impact Point is 7 mm below nominal impact point (Vertical)

MAXIMUM EXTERIOR STATIC CRUSH:

1. LEVEL 1 (243 mm above ground) = 91 millimeters

2. LEVEL 2 (655 mm above ground) = 330 millimeters

3. LEVEL 3 (692 mm above ground) = 335 millimeters

4. LEVEL 4 (974 mm above ground) = 264 millimeters

5. LEVEL 5 (1558 mm above ground) = 10 millimeters

Maximum Post-Test Intrusion = 335 millimeters

OCCUPANTS:

Front Passenger:

Rear Passenger:

Dummy Identification SID H3/015

SID H3/016

Restraints Used Three point safety belt and Side
curtain airbag

Three point safety belt and Side
curtain airbag

INSTRUMENTATION:

Number of Vehicle Data Channels: = 26

Number of Cameras: Onboard = 3

Offboard = 8

TOTAL = 11

DATA SHEET 3

MOVING DEFORMABLE BARRIER (MDB) SUMMARY

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300

MDB FACE MANUFACTURER AND SERIAL NUMBER:

Plascore, Inc. 36C1202-4 23B1102

POSITION OF IMPACT (MDB) ON MONORAIL:

Crabbed 27° to left

MDB DETAILS:

Overall Width of Framework Carriage	=	<u>1250</u>	millimeters
Overall Length of MDB (incl. honeycomb impact face)	=	<u>4120</u>	millimeters
Wheelbase of Framework Carriage	=	<u>2590</u>	millimeters
Tread of Framework Carriage (Front & Rear)	=	<u>1875</u>	millimeters
C.G. Location Rearward of Front Axle	=	<u>1104</u>	millimeters

MDB WEIGHT:

Left Front	=	<u>409.5</u>	kg	Left Rear	=	<u>281.5</u>	kg
Right Front	=	<u>372.5</u>	kg	Right Rear	=	<u>299.0</u>	kg
TOTAL FRONT	=	<u>782.0</u>	kg	TOTAL REAR	=	<u>580.5</u>	kg
TOTAL MDB WEIGHT	=	<u>1362.5</u>	kg				
Impact Angle (MDB C/L to Target Vehicle C/L)	=	<u>90</u>	degrees				
Impact Speed	=	<u>61.8</u>	kph				

MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE:

1. Row A at Center of Bumper Level	=	<u>164</u>	millimeters
2. Row B at Top of Bumper Level	=	<u>147</u>	millimeters
3. Row C at Mid Level	=	<u>132</u>	millimeters
4. Row D at Top of Stack Level	=	<u>191</u>	millimeters

INSTRUMENTATION:

Number of MDB Data Channels	=	<u>5</u>
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DATA SHEET 4

POST-TEST OBSERVATIONS

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300

TEST DUMMY INFORMATION AND CONTACT POINTS:

DESCRIPTION	FRONT SEAT	REAR SEAT
ATD Type/Serial No.	SID H3/015	SID H3/016
Head Contact:	Side back and top of the head to the Side Curtain Airbag	Side back and top of the head to the Side Curtain Airbag
Upper Torso Contact:	Interior Door Trim Panel	Interior Door Trim Panel
Lower Torso Contact:	Interior Door Trim Panel	Interior Door Trim Panel
Left Knee Contact:	Interior Door Trim Panel	Interior Door Trim Panel
Right Knee Contact:	Left Knee	Left Knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

DESCRIPTION	FRONT	REAR
Left Side Doors	Closed, Latched and Inoperable	Closed, Latched and Inoperable
Right Side Doors	Closed, Latched and Operable without tools	Closed, Latched and Operable without tools
Hatch/Other Door	N/A	Closed, Latched and Operable without tools
Seat Movement (mm)	0	0
Seat Back Failure	None	None

POST TEST STRUCTURAL OBSERVATIONS

CRITICAL AREAS OF PERFORMANCE	
Pillar Performance	A-, B- and C-Pillars were moved inboard during the event with no visible tears or separations
Sill Separation	No visible tears or separations
Windshield Damage	None
Window Damage	None
Other Notable Effects	None

AIR BAG DEPLOYMENT STATUS:

	DRIVER	FRONT PASSENGER	REAR PASSENGER
Front Air Bag	No	No	N/A
Knee Bolster Bag	N/A	N/A	N/A
Side Air Bag	N/A	N/A	N/A
Side Curtain Bag	Yes	No	Yes

MDB LEFT EDGE IMPACT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	± 50 mm	0 mm
Vertical Offset	mm	± 20 mm	7 mm below

SECTION 4

OCCUPANT AND VEHICLE INFORMATION

DATA SHEET 5

SID H3 INSTRUMENTATION DATA

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300

		Front Dummy ID# 015				Rear Dummy ID# 016			
		Pos. Direction		Neg. Direction		Pos. Direction		Neg. Direction	
		Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
HEAD ACCELERATIONS:									
Longitudinal	X	5.0	38.8	-20.0	71.8	6.4	56.9	-9.1	84.6
Lateral	Y	21.8	44.1	-2.9	27.3	26.8	59.5	-2.9	31.0
Vertical	Z	7.8	36.7	-11.2	61.4	8.3	47.7	-23.9	73.5
Resultant	R	22.8	66.5	0.0	-16.4	27.2	59.6	0.0	-8.1
HIC		64.1				88.8			
NECK FORCES:									
Longitudinal	X	120.5	55.8	-200.0	125.1	293.1	73.2	-52.8	173.8
Lateral	Y	65.5	96.2	-459.2	47.5	55.3	167.5	-696.1	83.1
Vertical	Z	288.9	36.5	-639.5	58.2	240.8	51.5	-865.8	77.2
Resultant	R	738.9	58.2	0.1	1.6	1110.6	77.2	0.1	2.0
NECK MOMENTS:									
X		10.9	86.2	-35.7	55.2	9.9	166.6	-64.9	66.3
Y		17.2	115.7	-33.4	67.6	12.3	167.5	-36.8	79.9
Z		20.2	79.6	-7.9	127.4	18.8	93.8	-5.5	177.2
Resultant	R	44.8	63.4	0.0	2.8	66.7	66.6	0.0	2.0
RIB ACCELERATIONS:									
Upper Rib Lateral	Y	24.6	39.4	-4.1	100.6	31.2	60.6	-3.1	183.7
Upper Rib Lateral	Y(R)	25.0	39.4	-4.3	100.6	30.1	60.6	-3.1	175.6
Lower Rib Lateral	Y	27.3	45.0	-3.9	100.6	36.9	51.2	-2.9	193.8
Lower Rib Lateral	Y(R)	26.7	38.7	-4.1	100.6	37.6	51.3	-2.9	197.5
SPINE ACCELERATIONS:									
Lower Lateral	Y	35.9	33.2	-7.1	70.0	41.2	48.1	-17.3	145.0
Lower Lateral	Y(R)	36.0	33.2	-7.3	70.0	40.5	48.2	-2.8	192.5
PELVIC ACCELERATIONS:									
Lateral	Y	40.7	30.7	-11.4	68.7	50.7	45.0	-6.6	104.3
Lateral	Y(R)	41.3	30.7	-11.7	68.7	49.4	45.0	-6.4	105.0

REFERENCE: Positive Direction: Longitudinal (X) = forward; Lateral (Y) = to right; Vertical (Z) = down

Note: Rib, Spine and Pelvis data has been FIR filtered, Y(R) denotes redundant Y direction accelerometer.

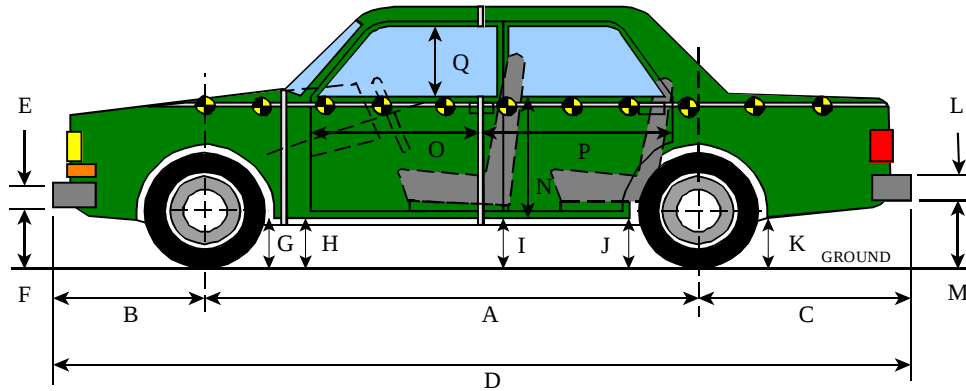
Head Accelerations and Neck Forces are filtered at SAE Class 1000, Neck Moments are filtered at SAE Class 600.

DATA SHEET 6

VEHICLE SIDE MEASUREMENTS

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



LEFT SIDE VIEW

NOTE: all dimensions are in millimeters with tolerance of ± 3 mm

	PRE-TEST (as delivered)	PRE-TEST (as tested)	POST-TEST (as tested)	Δ CHANGE
A	2960	2960	2924	-36
B	1017	-	1054	37
C	1073	-	1067	-6
D	5050	-	5045	-5
E	170	-	170	0
F	412	413	443	30
G	228	209	226	17
H	229	209	218	9
I	244	213	237	24
J1	247	210	214	4
J2	263	227	225	-2
K	310	266	275	9
L	337	-	337	0
M	325	278	292	14
N	821	-	753	-68
O	817	-	781	-36
P	1183	-	1102	-81
Q	477	-	473	-4
R	4865	-	4865	0
S	4865	-	4850	-15
T	1990	-	1812	-178

D = Length at Centerline

E&L = Bumper Thickness

R = Right Side Length

S = Left Side Length

T = Width at B-Pillar

J1 = To Pinch Weld

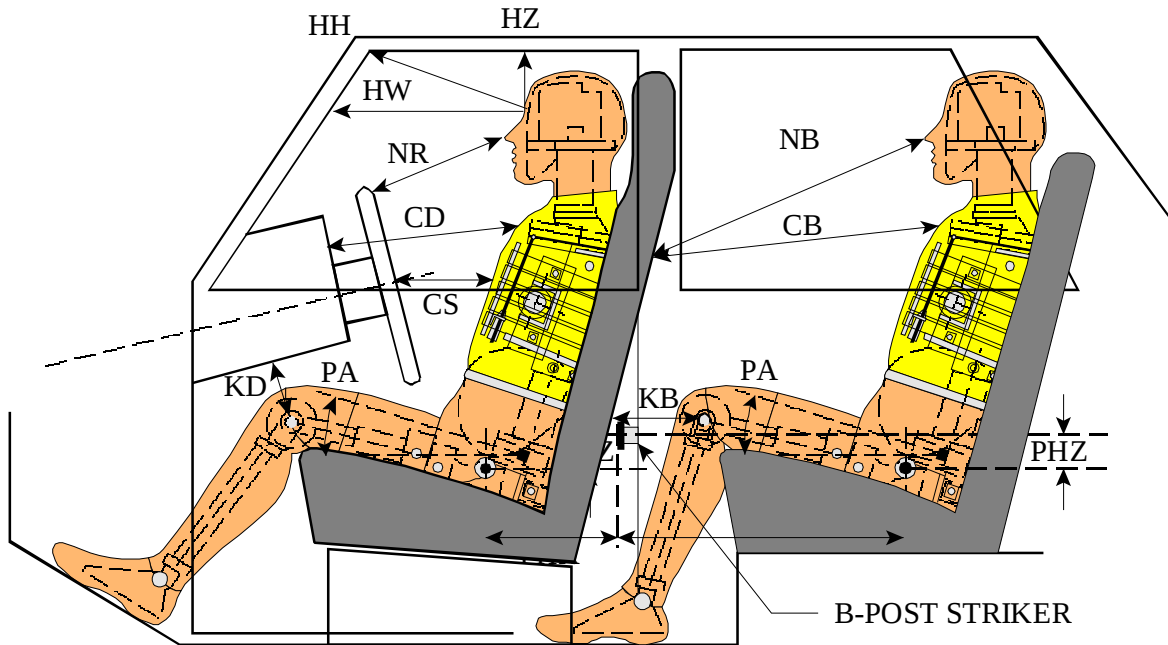
J2 = To Sill

DATA SHEET 7

SID H3 LONGITUDINAL CLEARANCE DIMENSIONS

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



LEFT SIDE VIEW

NOTE: 2-DOOR VEHICLE SHOWN.
REAR DUMMY PHX & PHZ
MEASUREMENTS FOR A 4-DOOR
VEHICLE WOULD USE THE C-POST
STRIKER AS A REFERENCE POINT

NOTE: All dimensions are in millimeters with tolerance of ± 3 mm

	DRIVER ID# 015	LEFT REAR PASS. ID# 016
HH	433	N/A
HW	738	N/A
HZ	196	228
NR/NB	475	613
CD/CB	532	538
CS	320	N/A
KDL(KDA°)/KBL(KDA°)	185 / (33 °)	213 / (30 °)
KDR(KBA°)/KBR(KBA°)	140 / (43 °)	204 / (31 °)
PA°	24.2 °	23.3 °
PHX	210	230
PHZ	71	144

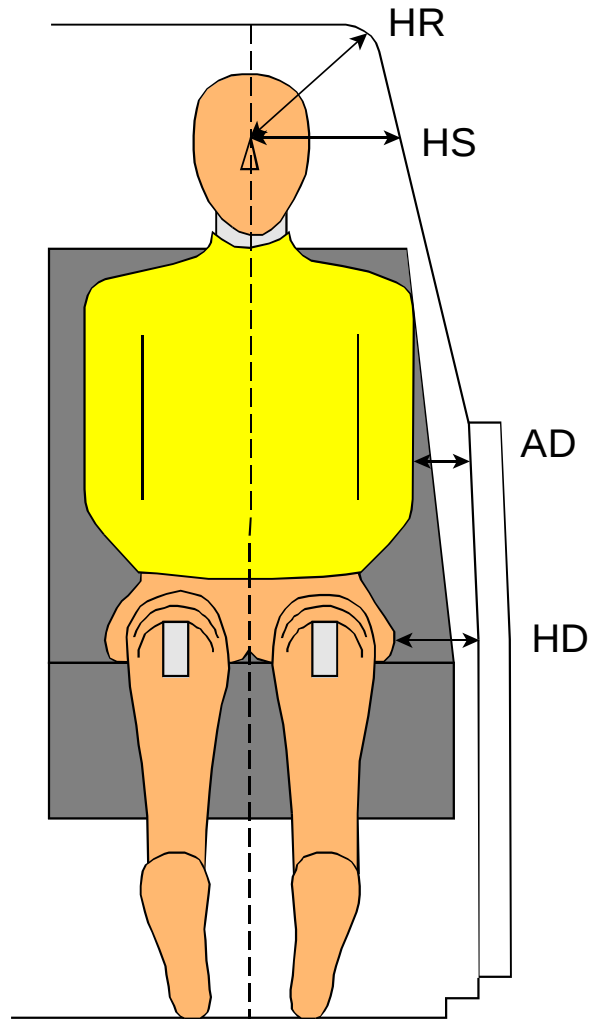
Note: 2-door vehicle shown. Rear dummy PHX & PHZ measurements for 4-door vehicle would use the C-post striker as a reference point.

DATA SHEET 8

SID H3 LATERAL CLEARANCE DIMENSIONS

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



NOTE: All dimensions are in millimeters with tolerance of ± 3 mm

	DRIVER ID # 015				LEFT REAR PASS. ID # 016			
HR	200				171			
HS	363				244			
AD*	LOWER:	159	UPPER:	145	LOWER:	166	UPPER:	127
HD	126				130			

* Lower measurement is taken laterally at the center of the lower rib accelerometer height from the SID H3 arm segment to the closest part of the vehicle side.

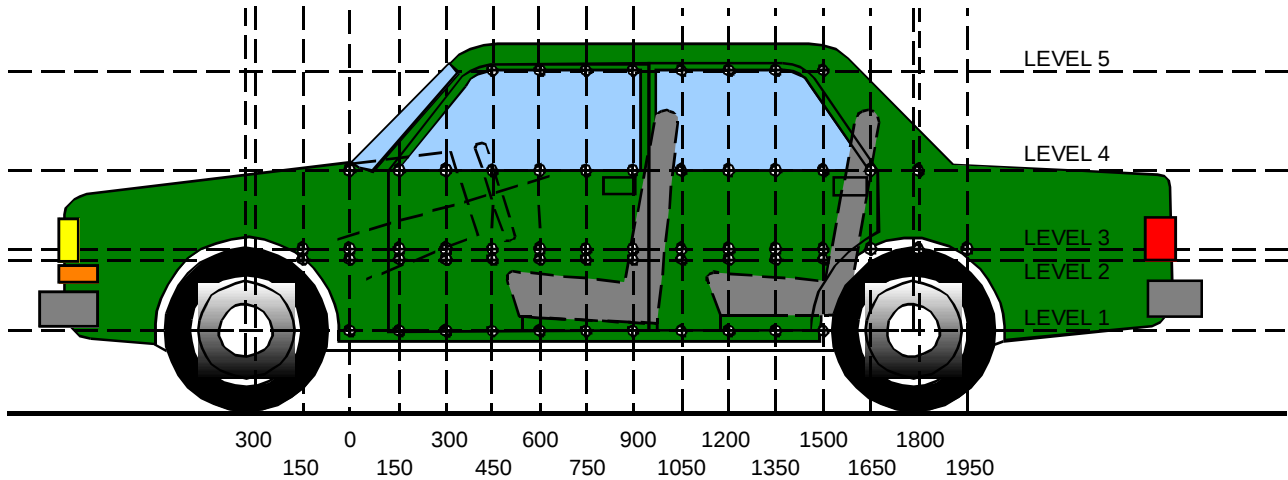
Upper measurement is taken laterally at the center of the upper rib accelerometer height from the SID H3 arm segment to the closest part of the vehicle side.

DATA SHEET 9

VEHICLE SIDE MEASUREMENTS

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



LEFT SIDE VIEW

NOTE: All measurements are in millimeters (mm)

LEVEL 5 - WINDOW TOP
LEVEL 4 - WINDOW SILL
LEVEL 3 - MID-DOOR
LEVEL 2 - OCCUPANT H-POINT
LEVEL 1 - AXLE CENTERLINE HEIGHT OR SILL TOP HEIGHT

MEASUREMENTS ARE TAKEN WHEN THE VEHICLE IS IN THE "AS TESTED" CONFIGURATION.

Measurements Along the Vertical 750 mm Line Shown Above:

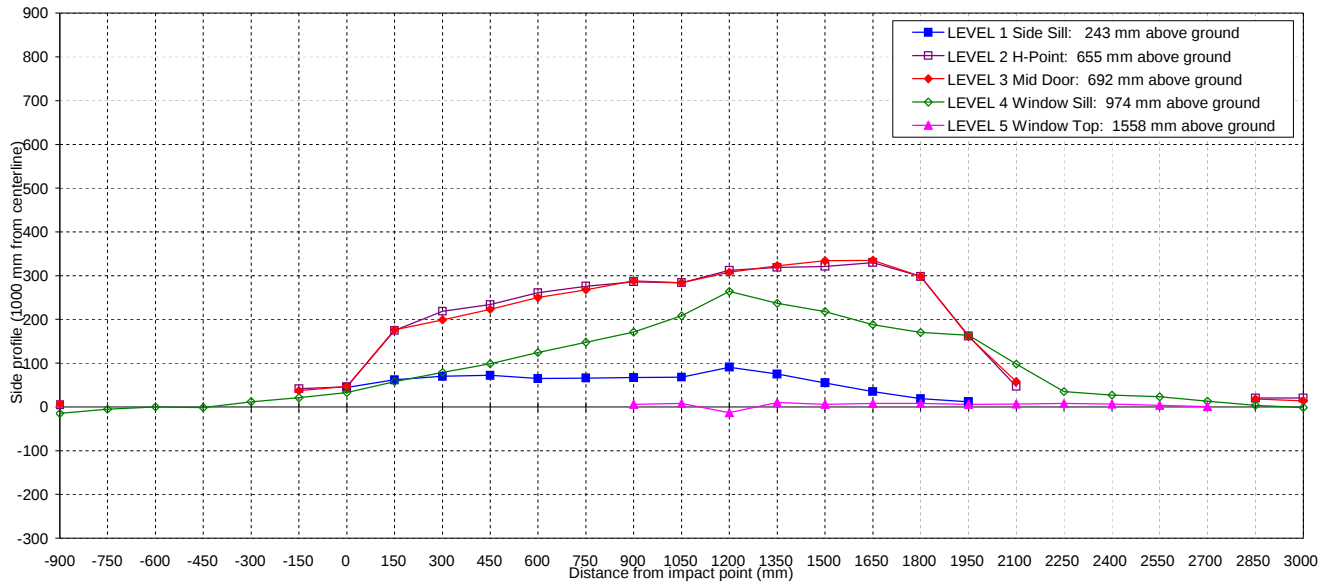
Level 5 @ Window Top	=	<u>1558</u>	millimeters
Level 4 @ Window Sill	=	<u>974</u>	millimeters
Level 3 @ Mid Door	=	<u>692</u>	millimeters
Level 2 @ Occupant H-Point	=	<u>655</u>	millimeters
Level 1 @ Axle Centerline Height		<u>243</u>	
(or Sill Top Height)	=	<u>10</u>	millimeters

DATA SHEET 10

VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



NOTE: All dimensions are in millimeters with a tolerance of ± 3 mm

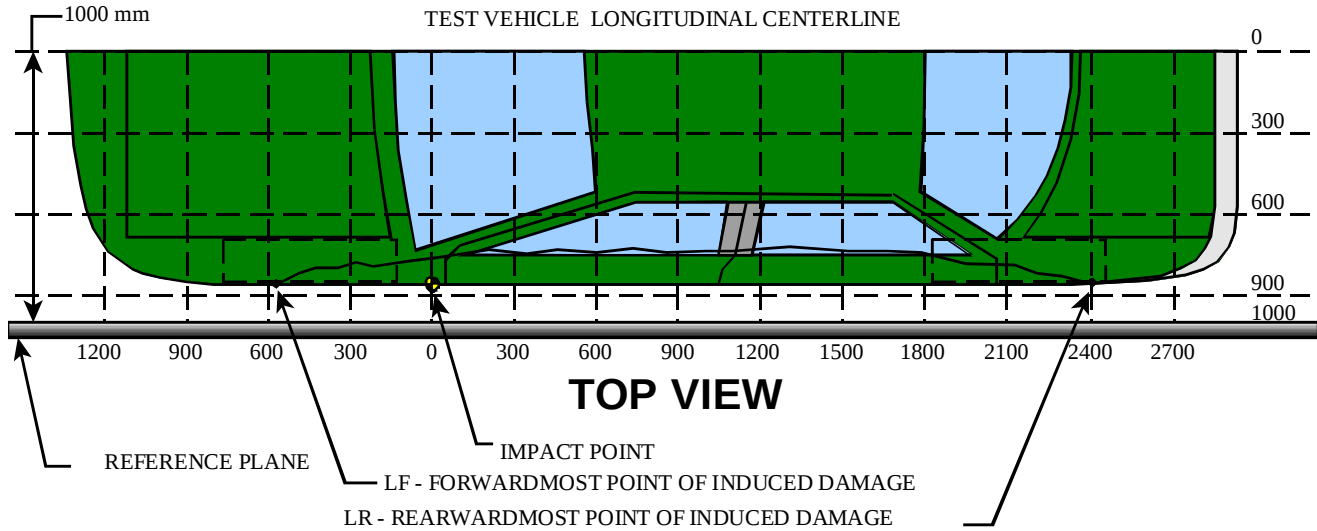
			DISTANCE IN MILLIMETERS (mm) FROM IMPACT POINT																											
LEVEL	HEIGHT (mm)		-900	-750	-600	-450	-300	-150	0	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	
LEVEL 1 SIDE SILL	243	PRE	--	--	--	--	--	--	94	111	110	110	117	114	119	122	125	123	130	140	143	148	--	--	--	--	--	--	--	--
		POST	--	--	--	--	--	--	139	173	180	182	182	180	186	190	216	198	185	175	162	160	--	--	--	--	--	--	--	--
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	45	62	70	72	65	66	67	68	91	75	55	35	19	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEVEL 2 H POINT	655	PRE	52	--	--	--	--	14	14	12	11	8	7	6	10	11	11	9	9	11	15	28	31	--	--	--	--	44	68	
		POST	57	--	--	--	--	56	60	187	230	242	268	282	296	295	323	328	330	341	313	190	78	--	--	--	--	64	88	
		CRUSH	5	N/A	N/A	N/A	N/A	42	46	175	219	234	261	276	286	284	312	319	321	330	298	162	47	N/A	N/A	N/A	N/A	20	20	
LEVEL 3 MID DOOR	692	PRE	54	--	--	--	--	16	12	10	9	9	8	8	8	8	12	14	16	21	24	28	22	--	--	--	--	43	69	
		POST	61	--	--	--	--	53	59	186	208	232	258	276	296	292	320	337	350	356	322	189	80	--	--	--	--	61	83	
		CRUSH	7	N/A	N/A	N/A	N/A	37	47	176	199	223	250	268	288	284	308	323	334	335	298	161	58	N/A	N/A	N/A	N/A	18	14	
LEVEL 4 WINDOW SILL	974	PRE	203	161	133	113	95	78	63	57	52	42	38	32	3	12	31	37	39	46	53	46	45	57	59	67	77	93	114	
		POST	188	156	133	112	107	99	96	115	131	141	162	180	174	220	295	274	257	234	223	210	143	92	86	90	90	97	113	
		CRUSH	-15	-5	0	-1	12	21	33	58	79	99	124	148	171	208	264	237	218	188	170	164	98	35	27	23	13	4	-1	
LEVEL 5 WINDOW TOP	1558	PRE	--	--	--	--	--	--	--	--	--	--	--	--	378	365	378	348	347	346	346	348	354	359	366	374	392	--	--	
		POST	--	--	--	--	--	--	--	--	--	--	--	--	384	373	365	358	353	354	354	354	361	367	373	378	393	--	--	
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	8	-13	10	6	8	8	6	7	8	7	4	1	N/A	N/A	

DATA SHEET 11

VEHICLE DAMAGE PROFILE DISTANCES

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



MEASUREMENT CONVENTIONS:
 Forward of the impact point (towards front of vehicle) is considered negative (—).
 Rearward of the impact point (toward rearend of vehicle) is considered positive (+).

NOTE: All dimensions are in millimeters with tolerance of ± 3 mm.

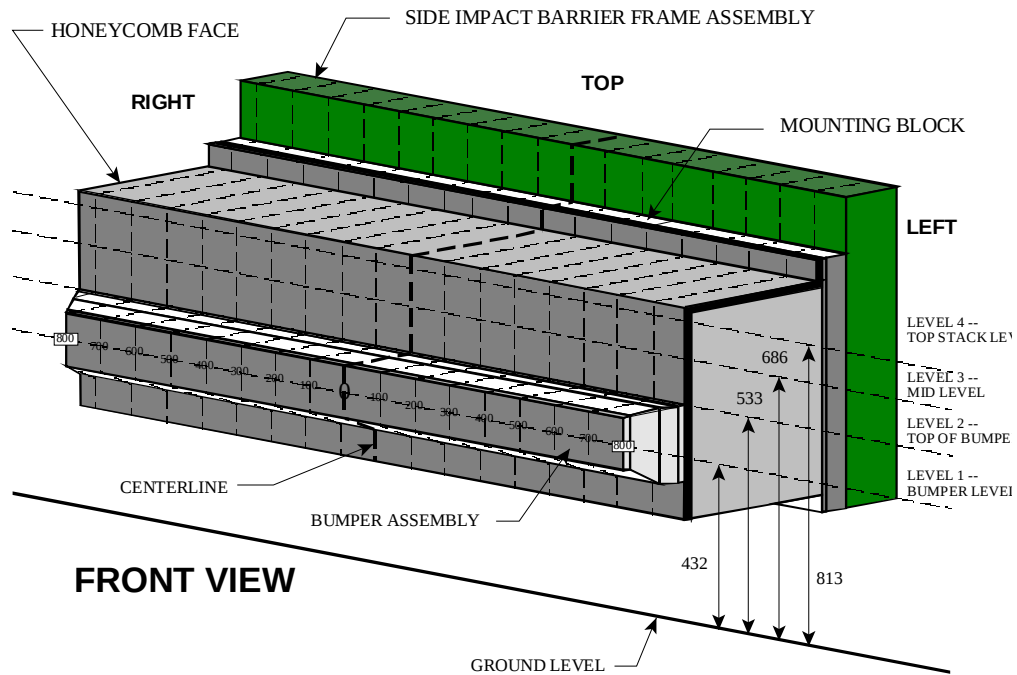
DPD MEASUREMENTS		POST TEST (mm)	PRETEST (mm)	STATIC CRUSH (mm)
1	(LR = <u>2880</u> mm)	95	88	7
2	2152	125	49	76
3	1504	350	16	334
4	856	292	9	283
5	208	204	12	192
6	(LF = <u>-440</u> mm)	112	112	0

DATA SHEET 12

EXTERIOR STATIC CRUSH FOR IMPACTOR FACE

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



NOTE: Dimensions are shown in millimeters, mm

NOTE: All dimensions are in millimeters with a tolerance of ± 3 mm

LEVEL	HEIGHT AT CL (mm)*		DISTANCE RIGHT OF CENTER (mm)										DISTANCE LEFT OF CENTER (mm)						
			800	700	600	500	400	300	200	100	0	100	200	300	400	500	600	700	800
LEVEL 4 TOP STACK	813	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619
		POST	690	681	662	646	638	659	667	653	649	662	676	688	705	722	745	774	810
		CRUSH	71	62	43	27	19	40	48	34	30	43	57	69	86	103	126	155	191
LEVEL 3 MID LEVEL	686	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619
		POST	665	656	649	647	646	649	676	668	654	651	658	663	672	686	703	724	751
		CRUSH	46	37	30	28	27	30	57	49	35	32	39	44	53	67	84	105	132
LEVEL 2 TOP BUMPER	533	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619
		POST	701	689	688	689	687	685	687	685	690	691	698	702	702	701	708	733	766
		CRUSH	82	70	69	70	68	66	68	66	71	72	79	83	83	82	89	114	147
LEVEL 1 MID BUMPER	432	PRE	535	519	518	518	518	518	518	518	518	518	518	518	518	518	518	519	535
		POST	695	672	658	656	649	648	638	630	632	633	628	625	636	641	636	652	699
		CRUSH	160	153	140	138	131	130	120	112	114	115	110	107	118	123	118	133	164

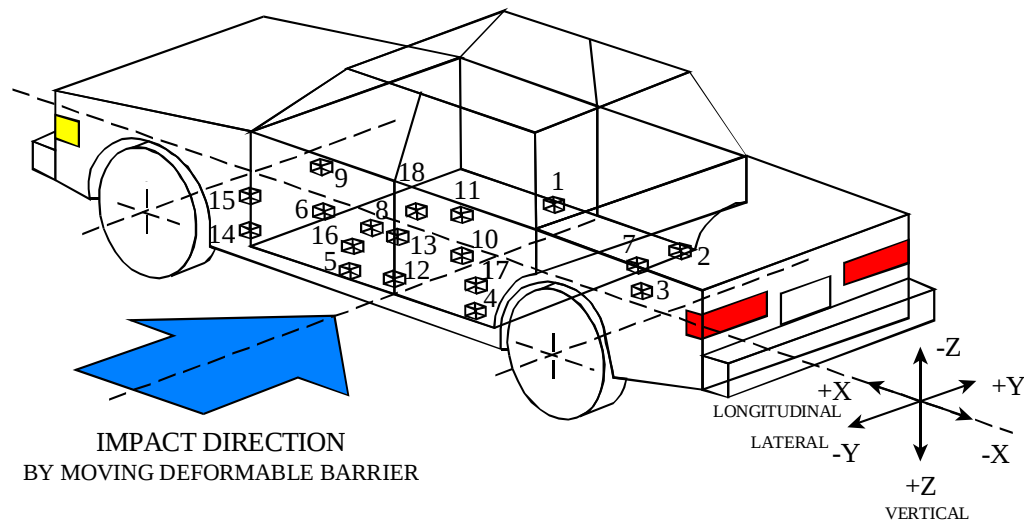
*Heights measured above ground level.

DATA SHEET 13

TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



- 1-Right Side Sill @ Front Seat
- 2-Right Side Sill @ Rear Seat
- 3-Rear Floorpan Above Axle
- 4-Left Side Sill @ Rear Seat
- 5-Left Side Sill @ Front Seat
- 6-Left Front Door on Centerline
- 7-Right Rear Occupant Compartment
- 8-Midrear of Left Front Door
- 9-Left Front Door Upper Centerline

- 10-Midrear of Left Rear Door
- 11-Left Rear Door Upper Centerline
- 12-Left Lower B-Pillar
- 13-Left Middle B-Pillar
- 14-Left Lower A-Pillar
- 15-Left Middle A-Pillar
- 16-Front Seat Track
- 17-Rear Seat Track
- 18-Vehicle CG

DATA SHEET 13 (continued)

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300

4-11

8700-01

Accel. No.	Location	Coordinates (mm)±3 mm				Long. (x)		Lat. (y)		Vert. (z)		Resultant	
						Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
		X*	Y*	Z*									
1	Right Side Sill at Front Seat	2515	900	-351	pos.	4.5	64.1	19.9	7.8	3.5	78.7	20.7	7.9
					neg.	-5.8	14.5	-2.0	143.6	-5.8	9.9	0.0	-20.0
2	Right Side Sill at Rear Seat	2199	693	-344	pos.	4.4	64.4	16.3	6.6	4.5	37.9	16.8	6.7
					neg.	-5.4	14.3	-1.7	180.4	-5.1	10.8	0.0	-11.5
3	Rear Floorpan Above Axle	1401	154	-618	pos.	2.6	59.4	16.6	33.3	7.1	47.1	17.0	32.8
					neg.	-5.0	23.9	-1.9	118.9	-9.7	20.7	0.0	-16.8
4	Left Side Sill at Rear Seat	2156	-700	-359	pos.	-	-	67.4	25.9	-	-	-	-
					neg.	-	-	-61.7	21.5	-	-	-	-
5	Left Side Sill at Front Seat	3196	-693	-352	pos.	-	-	37.9	4.8	-	-	-	-
					neg.	-	-	-24.9	16.2	-	-	-	-
6	Left Front Door on Centerline	2961	-758	-739	pos.	-	-	99.6	4.1	-	-	-	-
					neg.	-	-	-58.5	13.0	-	-	-	-
7	Right Rear Occupant Compartment	2236	450	-326	pos.	-	-	16.2	6.6	-	-	-	-
					neg.	-	-	-1.6	181.3	-	-	-	-
8	Midrear of Left Front Door	2648	-807	-897	pos.	-	-	†	†	-	-	-	-
					neg.	-	-	†	†	-	-	-	-
9	Left Front Door Upper Centerline	2928	-811	-945	pos.	-	-	95.3	19.7	-	-	-	-
					neg.	-	-	-84.5	27.3	-	-	-	-
10	Midrear of Left Rear Door	1676	-804	-914	Pos.			123.8	23.3				
					neg.	-	-	-115.6	32.4	-	-	-	-
11	Left Rear Door Upper Centerline	1842	-814	-972	pos.	-	-	122.4	23.0	-	-	-	-
					neg.	-	-	-185.3	34.1	-	-	-	-

*Reference: X - Rear Bumper (+ Forward)

Y - Vehicle Centerline (+ To Right) Z - Ground Level (+ Down)

**Accelerometer was not requested by COTR.

† - Data is questionable after 123 ms.

DATA SHEET 13 (continued)

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300

Accel. No.	Location	Coordinates (mm)±3 mm				Long. (x)		Lat. (y)		Vert. (z)		Resultant	
						Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
		X*	Y*	Z*									
12	Left Lower B-Pillar	2427	-695	-395	pos.	-	-	198.7	4.7	-	-	-	-
					neg.	-	-	-110.8	25.7	-	-	-	-
13	Left Middle B-Pillar	2323	-718	-1073	pos.	-	-	121.2	11.5	-	-	-	-
					neg.	-	-	-170.5	16.9	-	-	-	-
14	Left Lower A-Pillar	3570	-693	-482	pos.	-	-	25.1	12.9	-	-	-	-
					neg.	-	-	-11.6	19.3	-	-	-	-
15	Left Middle A-Pillar	3337	-717	-1132	pos.	-	-	38.5	31.6	-	-	-	-
					neg.	-	-	-50.7	28.2	-	-	-	-
16	Front Seat Track	2605	-530	-358	pos.	-	-	20.2	19.1	-	-	-	-
					neg.	-	-	-2.3	180.9	-	-	-	-
17	Rear Seat Track	2054	-581	-342	pos.	-	-	144.1	23.9	-	-	-	-
					neg.	-	-	-129.1	82.3	-	-	-	-
18	Vehicle CG	2631	93	-589	pos.	16.9	28.7	88.7	24.2	28.1	26.1	91.0	24.3
					neg.	-10.2	22.5	-29.5	29.8	-45.3	41.2	0.0	-19.7

*Reference: X - Rear Bumper (+ Forward) Y - Vehicle Centerline (+ To Right) Z - Ground Level (+ Down)

4-12

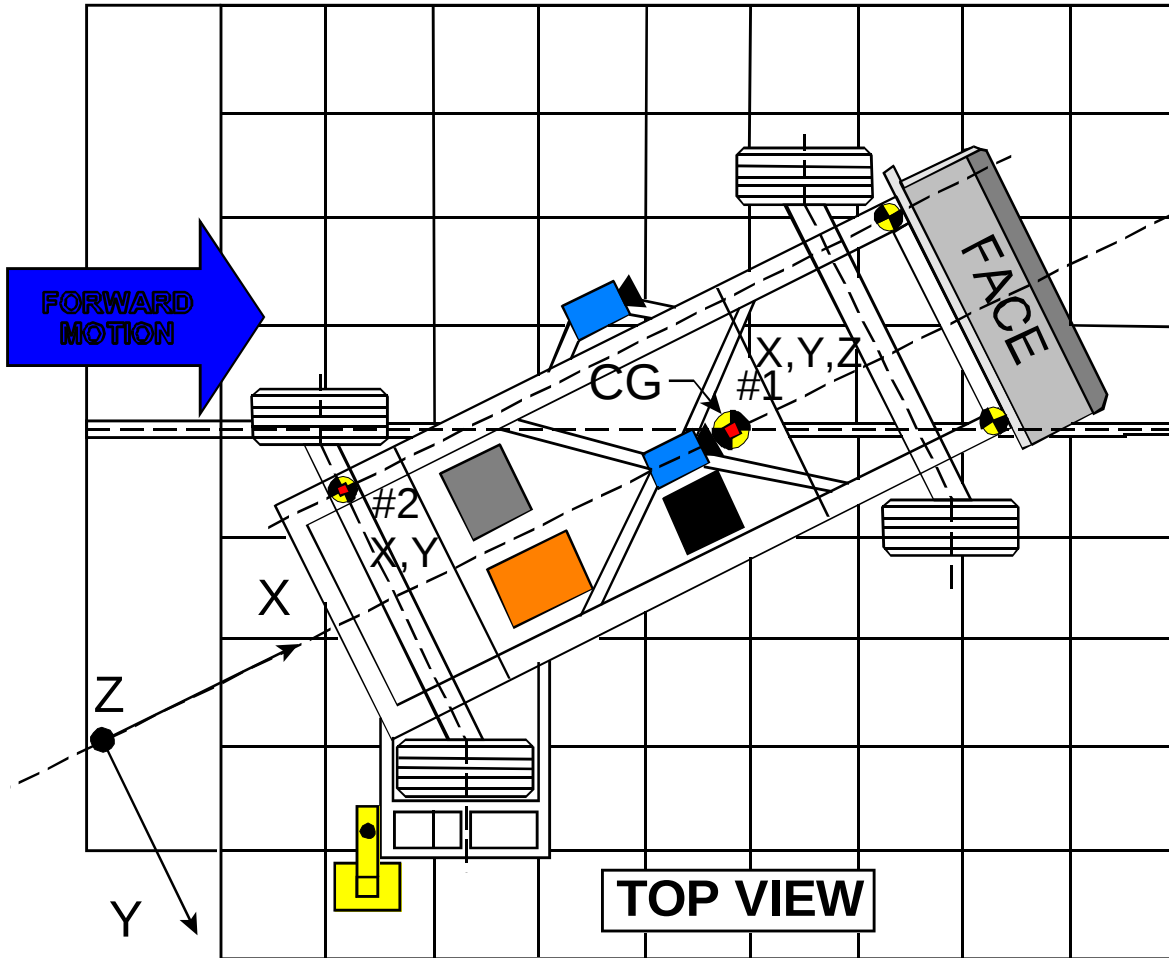
8700-01

DATA SHEET 14

MDB ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



Accel. No.	Location	Coordinates (millimeters)			Pos. Direct.		Neg. Direct.	
		X*	Y*	Z*	Max (g)	Time (msec)	Max (g)	Time (msec)
1	MDB Center of Gravity							
	Longitudinal... X	1859	0	-330	1.0	123.0	-21.1	45.2
	Lateral..... Y				1.8	68.3	-7.9	46.5
	Vertical..... Z				21.0	37.7	-22.9	20.9
	Resultant..... R				30.4	43.5	0.3	194.5
2	Rear Frame Member							
	Longitudinal... X	386	-660	-660	1.8	109.5	-22.6	49.0
	Lateral..... Y				3.6	69.2	-3.5	21.5

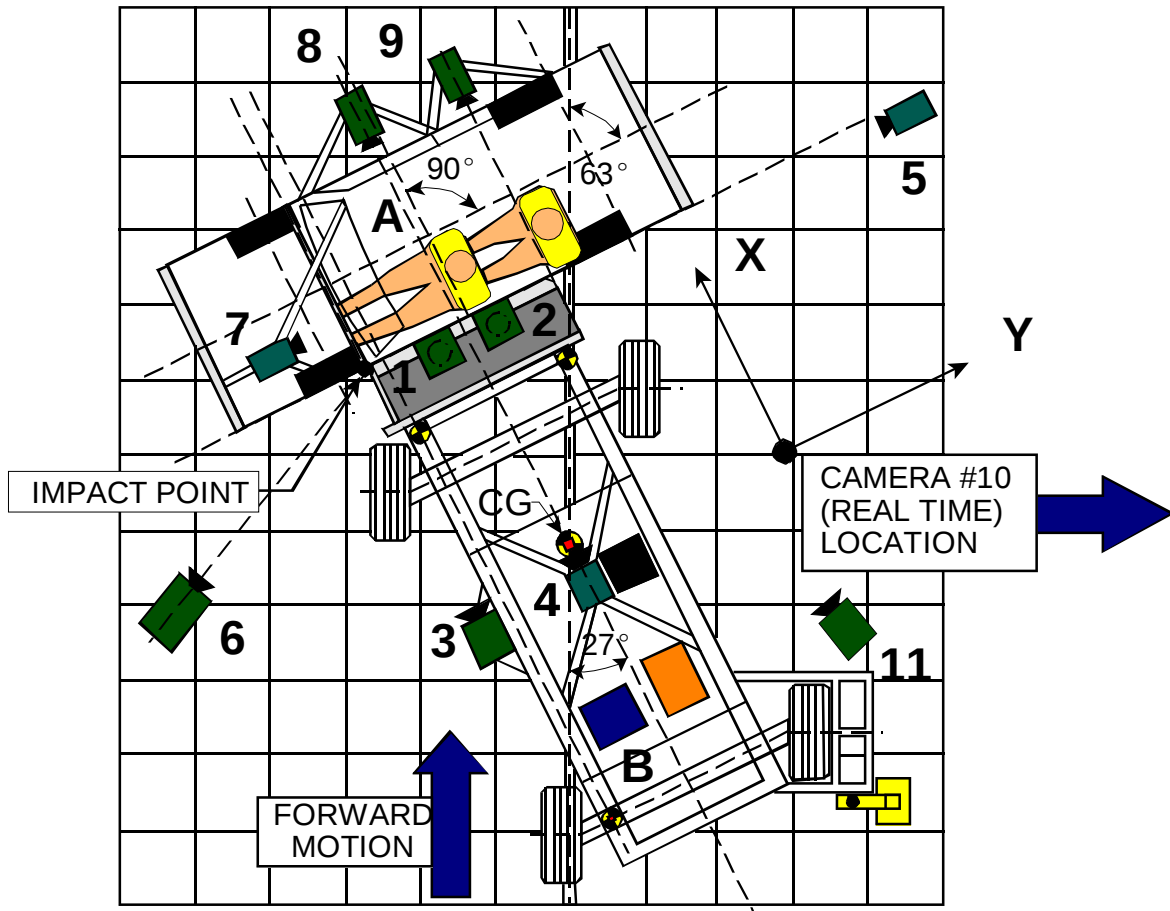
*Reference: X = Rear Bumper (+ Forward)
Y = Vehicle Centerline (+ To Right)
Z = Ground Level (+ Down)
All measurements accurate to within ± 3 mm.

DATA SHEET 15

HIGH SPEED CAMERA LOCATIONS AND DATA SUMMARY

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No. DC0300



Camera No.	View	Coordinates (millimeters)			Angle (deg.)	Lens (mm)	Film Speed (fps)
		X*	Y*	Z*			
1	Overhead view of test vehicle	300	905	-4880	-90	8	1010
2	Overhead closeup view of impact plane	45	744	-4880	-90	12.5	1025
3	MDB onboard closeup view of impact point	-1470	0	-847	0	13	1020
4	MDB onboard view of driver dummy	-1140	838	-1586	-17	7.5	1025
5	Right side ground level overall view	-116	9643	-1087	-3	25	975
6	Left side ground level overall view	-2365	-1222	-1076	-7	13	1005
7	Test vehicle onboard driver front view	532	462	-1420	-10	13	1035
8	Test vehicle onboard driver side view	1890	753	-1650	-1	8	1010
9	Test vehicle onboard passenger side view	1860	1643	-1213	-8	8	1020
10	Real time film coverage of test	-	-	-	-	-	24
11	Secondary impact point view	-4291	2011	-1068	-4	25	1000

* Reference (from point of impact); all measurements accurate to within ± 6 mm.

X = (Impact Point) + Forward

Y = (Impact Point) + To Right

Z = (Ground Level) + Down

SECTION 5

FUEL SYSTEM INTEGRITY

DATA SHEET 16

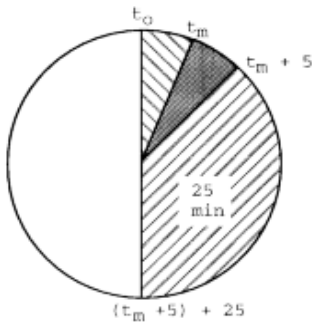
FMVSS 301 FUEL SYSTEM INTEGRITY DATA

NHTSA No.: DC0300 TEST DATE: April 1, 2003
Vehicle Mfgr./Make/Model: DaimlerChrysler 2004 Chrysler Pacifica MPV

TEST VEHICLE IMPACT TYPE:

- Frontal (48.28 kph)
- Oblique (48.28 kph) with _____ ° barrier face first
contacting the _____ side
(driver/passenger)
- Rear Moving Barrier (48.28 kph)
- Lateral Moving Barrier (32.19 kph)
- X Side Impact Moving Deformable Barrier (62.0 kph)
contacting the _____ driver side _____ side
(driver/passenger)

FUEL SPILLAGE MEASUREMENT:



1. From impact until vehicle motion ceases
2. For five minute period after vehicle motion ceases
3. For next 25 minutes

ACTUAL	MAX ALLOWED
0 g	28 g
0 g	142 g
0 g	28 g/1 min.

SOLVENT SPILLAGE DETAILS:

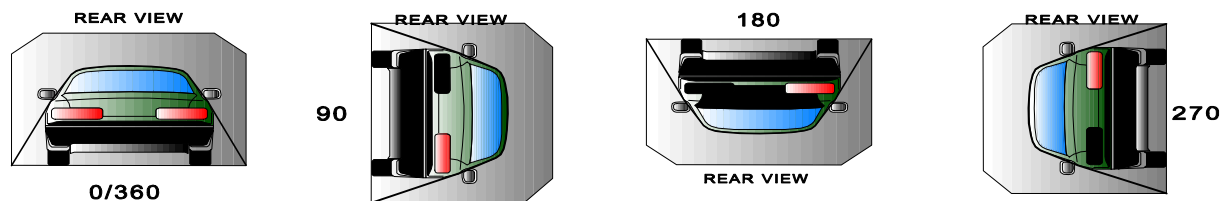
None

DATA SHEET 17

ROLLOVER DATA

Vehicle: 2004 Chrysler Pacifica MPV

NHTSA No.: DC0300



I. DETERMINATION OF SOLVENT COLLECTION TIME PERIOD:

Rollover Stage	Rotation Time (spec. 1 -3 min)				FMVSS 301 Hold Time		Total Time				Next Whole Minute Interval	
0° - 90°	1	minutes	10	seconds	5	minutes	6	minutes	10	seconds	7	minutes
90° - 180°	1	minutes	08	seconds	5	minutes	6	minutes	8	seconds	7	minutes
180°-270°	1	minutes	00	seconds	5	minutes	6	minutes	0	seconds	7	minutes
270°-360°	1	minutes	12	seconds	5	minutes	6	minutes	12	seconds	7	minutes

II. FMVSS 301 REQUIREMENTS: (Maximum allowable solvent spillage):

First 5 minutes from onset of rotation	6th min.	7th min.	8th min. (if required)
142 g	28 g	28 g	28 g

III. ACTUAL TEST VEHICLE SOLVENT SPILLAGE:

Rollover Stage	First 5 minutes from onset of rotation (g)	6th min. (g)	7th min. (g)	8th min. (if required) (g)
0° - 90°	0	0	0	N/A
90° - 180°	0	0	0	N/A
180°-270°	0	0	0	N/A
270°-360°	0	0	0	N/A

Note: Record spillage for whole minute intervals only as determined above.

IV. SOLVENT SPILLAGE LOCATION(S):

Rollover Stage	Spillage Location
0° - 90°	None
90° - 180°	None
180°-270°	None
270°-360°	None

SECTION 6

STRUCTURAL SURVEY MEASUREMENTS

DATA SHEET 18**TARGET VEHICLE STRUCTURAL MEASUREMENTS**Vehicle: 2004 Chrysler Pacifica MPVNHTSA No.: DC0300

	Elements	Pre-Test (mm)
1	Total length	5050
2	Total Width	1990
3	Bumper Top Height	582
4	Bumper Bottom Height	412
5	Longitudinal Member Top Height	582
6	Distance Between Longitudinal Members	1064
7	Longitudinal Member Width	100
8	Engine top height	1010
9	Engine bottom height	234
10	Engine and gearbox width	1000
11	Front bumper-engine distance	500
12	Front shock absorber fixing height	985
13	Bonnet leading edge height	822
14	Front shock absorber fixing width	1265
15	Front bumper – front axle distance	1017
16	Front axle – a pillar distance	506
17	A-pillar – B pillar distance	1123
18	B-pillar – rear axle distance	1338
19	B-pillar – C Pillar distance	995
20	Roof sill bottom height	1510
21	Roof sill top height	1625
22	Floor sill bottom height	236
23	Floor sill top height	413

APPENDIX A

PHOTOGRAPHS

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Figure A- 12	POST-TEST RIGHT FRONT VIEW OF TEST VEHICLE	A- 14
Figure A- 13	PRE-TEST RIGHT REAR VIEW OF TEST VEHICLE	A- 15
Figure A- 14	POST-TEST RIGHT REAR VIEW OF TEST VEHICLE	A- 16
Figure A- 15	PRE-TEST FRONTAL VIEW OF IMPACTOR FACE	A- 17
Figure A- 16	POST-TEST FRONTAL VIEW OF IMPACTOR FACE	A- 18
Figure A- 17	PRE-TEST LEFT SIDE VIEW OF IMPACTOR FACE	A- 19
Figure A- 18	POST-TEST LEFT SIDE VIEW OF IMPACTOR FACE	A- 20
Figure A- 19	PRE-TEST RIGHT SIDE VIEW OF IMPACTOR FACE	A- 21
Figure A- 20	POST-TEST RIGHT SIDE VIEW OF IMPACTOR FACE	A- 22
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Figure A- 25	PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3	A- 27
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Figure A- 29	PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3	A- 31
Figure A- 30	POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3	A- 32
Figure A- 31	PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3	A- 33
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Figure A- 33	PRE-TEST INTERIOR OF FRONT DOOR	A- 35
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Figure A- 35	PRE-TEST INTERIOR OF REAR DOOR	A- 37
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Figure A- 42	IMPACT PHOTO	A- 44
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Figure A- 45	ROLLOVER 270 DEGREES	A- 47
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Figure A-1 PRE-TEST FRONTAL VIEW OF TEST VEHICLE

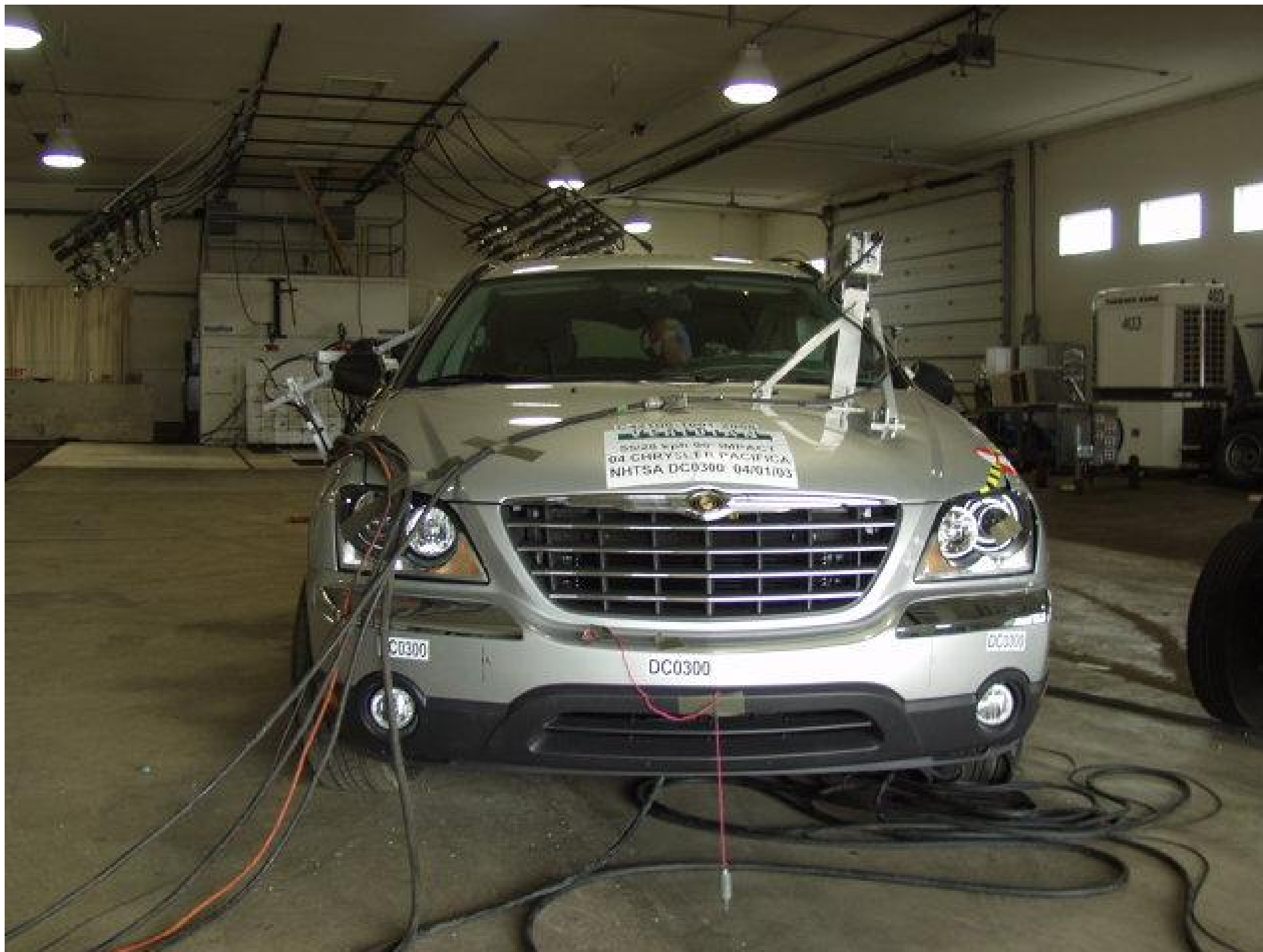


Figure A-2 POST-TEST FRONTAL VIEW OF TEST VEHICLE



Figure A-3 PRE-TEST REAR VIEW OF TEST VEHICLE



Figure A-4 POST-TEST REAR VIEW OF TEST VEHICLE



Figure A-5 PRE-TEST IMPACTED SIDE VIEW OF TEST VEHICLE



Figure A-6 POST-TEST IMPACTED SIDE VIEW OF TEST VEHICLE



Figure A-7 PRE-TEST LEFT FRONT VIEW OF TEST VEHICLE



Figure A-8 POST-TEST LEFT FRONT VIEW OF TEST VEHICLE



Figure A-9 PRE-TEST LEFT REAR VIEW OF TEST VEHICLE



Figure A-10 POST-TEST LEFT REAR VIEW OF TEST VEHICLE



Figure A-11 PRE-TEST RIGHT FRONT VIEW OF TEST VEHICLE



Figure A-12 POST-TEST RIGHT FRONT VIEW OF TEST VEHICLE



Figure A-13 PRE-TEST RIGHT REAR VIEW OF TEST VEHICLE



Figure A-14 POST-TEST RIGHT REAR VIEW OF TEST VEHICLE



Figure A-15 PRE-TEST FRONTAL VIEW OF IMPACTOR FACE



Figure A-16 POST-TEST FRONTAL VIEW OF IMPACTOR FACE



Figure A-17 PRE-TEST LEFT SIDE VIEW OF IMPACTOR FACE



Figure A-18 POST-TEST LEFT SIDE VIEW OF IMPACTOR FACE



Figure A-19 PRE-TEST RIGHT SIDE VIEW OF IMPACTOR FACE



Figure A-20 POST-TEST RIGHT SIDE VIEW OF IMPACTOR FACE

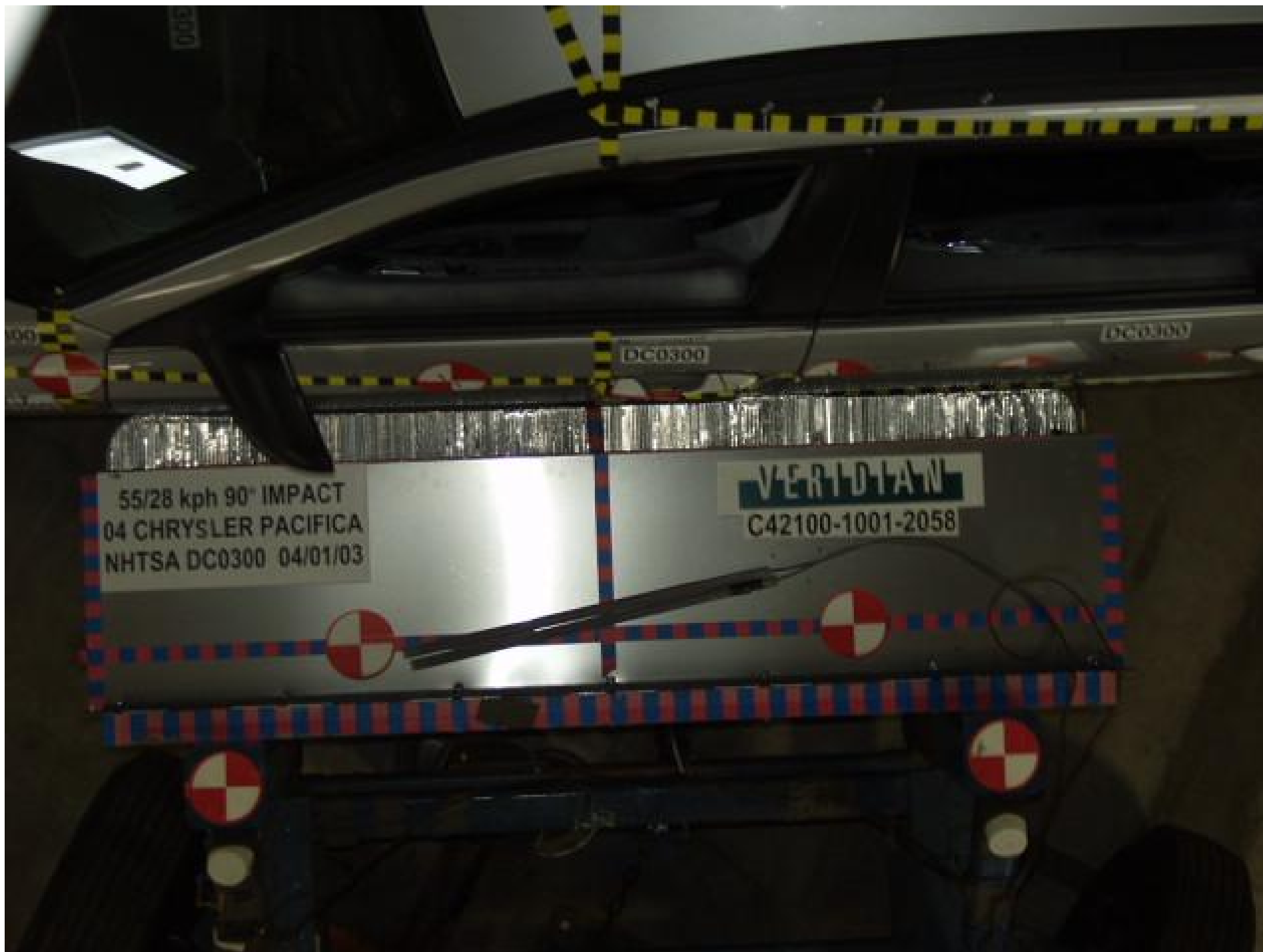


Figure A-21 PRE-TEST TOP VIEW OF IMPACTOR FACE



Figure A-22 POST-TEST TOP VIEW OF IMPACTOR FACE



Figure A-23 PRE-TEST OVERHEAD VIEW OF ALIGNED MDB AND VEHICLE



Figure A-24 POST-TEST OVERHEAD VIEW OF MDB AND VEHICLE



Figure A-25 PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-26 POST-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-27 PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-28 POST-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-29 PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3



Figure A-30 POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID



Figure A-31 PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-32 POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID H3



Figure A-33 PRE-TEST INTERIOR OF FRONT DOOR



Figure A-34 POST-TEST INTERIOR OF FRONT DOOR SHOWING SID H3 IMPACT LOCATIONS



Figure A-35 PRE-TEST INTERIOR OF REAR DOOR



Figure A-36 POST-TEST INTERIOR OF REAR DOOR SHOWING SID H3 IMPACT LOCATIONS



Figure A-37 PRE-TEST LEFT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION



Figure A-38 PRE-TEST RIGHT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION



Figure A-39 POST-TEST CLOSE-UP VIEW OF IMPACT POINT TARGET



Figure A-40 CLOSE-UP VIEW OF VEHICLE'S CERTIFICATION LABEL



Figure A-41 CLOSE-UP VIEW OF VEHICLE'S TIRE PLACARD LABEL



Figure A-42 IMPACT PHOTO



Figure A-43 ROLLOVER 90 DEGREES



Figure A-44 ROLLOVER 180 DEGREES



Figure A-45 ROLLOVER 270 DEGREES



Figure A-46 ROLLOVER 360 DEGREES

APPENDIX B

VEHICLE, MDB AND SID HYBRID III RESPONSE DATA

TABLE OF DATA PLOTS

DRIVER AND PASSENGER DUMMY INSTRUMENTATION PLOTS

ACCELERATION, FORCE AND MOMENT DATA - FILTER CLASS 1000, LOWER SPINE - FILTER CLASS 180
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
1	DRIVER HEAD (X) ACCELERATION VS TIME	B- 6
2	DRIVER HEAD (X) VELOCITY VS TIME	B- 7
3	DRIVER HEAD (Y) ACCELERATION VS TIME	B- 8
4	DRIVER HEAD (Y) VELOCITY VS TIME	B- 9
5	DRIVER HEAD (Z) ACCELERATION VS TIME	B- 10
6	DRIVER HEAD (Z) VELOCITY VS TIME	B- 11
7	DRIVER HEAD RESULTANT ACCELERATION VS TIME	B- 12
8	DRIVER UPPER NECK (X) FORCE VS TIME	B- 13
9	DRIVER UPPER NECK (Y) FORCE VS TIME	B- 14
10	DRIVER UPPER NECK (Z) FORCE VS TIME	B- 15
11	DRIVER UPPER NECK RESULTANT FORCE VS TIME	B- 16
12	DRIVER UPPER NECK (X) MOMENT VS TIME	B- 17
13	DRIVER UPPER NECK (Y) MOMENT VS TIME	B- 18
14	DRIVER UPPER NECK (Z) MOMENT VS TIME	B- 19
15	DRIVER UPPER NECK RESULTANT MOMENT VS TIME	B- 20
16	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 21
17	DRIVER UPPER RIB (Y) VELOCITY VS TIME	B- 22
18	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 23
19	DRIVER LOWER RIB (Y) VELOCITY VS TIME	B- 24
20	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 25
21	DRIVER LOWER SPINE (Y) VELOCITY VS TIME	B- 26
22	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 27
23	DRIVER PELVIC (Y) VELOCITY VS TIME	B- 28
24	PASSENGER HEAD (X) ACCELERATION VS TIME	B- 29
25	PASSENGER HEAD (X) VELOCITY VS TIME	B- 30
26	PASSENGER HEAD (Y) ACCELERATION VS TIME	B- 31
27	PASSENGER HEAD (Y) VELOCITY VS TIME	B- 32
28	PASSENGER HEAD (Z) ACCELERATION VS TIME	B- 33
29	PASSENGER HEAD (Z) VELOCITY VS TIME	B- 34
30	PASSENGER HEAD RESULTANT ACCELERATION VS TIME	B- 35
31	DRIVER UPPER NECK (X) FORCE VS TIME	B- 36
32	DRIVER UPPER NECK (Y) FORCE VS TIME	B- 37
33	DRIVER UPPER NECK (Z) FORCE VS TIME	B- 38
34	DRIVER UPPER NECK RESULTANT FORCE VS TIME	B- 39
35	DRIVER UPPER NECK (X) MOMENT VS TIME	B- 40
36	DRIVER UPPER NECK (Y) MOMENT VS TIME	B- 41
37	DRIVER UPPER NECK (Z) MOMENT VS TIME	B- 42
38	DRIVER UPPER NECK RESULTANT MOMENT VS TIME	B- 43
39	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 44
40	PASSENGER UPPER RIB (Y) VELOCITY VS TIME	B- 45
41	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 46
42	PASSENGER LOWER RIB (Y) VELOCITY VS TIME	B- 47
43	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 48
44	PASSENGER LOWER SPINE (Y) VELOCITY VS TIME	B- 49
45	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 50
46	PASSENGER PELVIC (Y) VELOCITY VS TIME	B- 51

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS

ACCELERATION DATA - FIR FILTERED

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
47	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 52
48	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 53
49	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 54
50	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 55
51	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 56
52	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 57
53	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 58
54	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 59

TEST VEHICLE INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
55	RIGHT SIDE SILL AT FRONT SEAT (X) ACCELERATION VS TIME	B- 60
56	RIGHT SIDE SILL AT FRONT SEAT (X) VELOCITY VS TIME	B- 61
57	RIGHT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME	B- 62
58	RIGHT SIDE SILL AT FRONT SEAT (Y) VELOCITY VS TIME	B- 63
59	RIGHT SIDE SILL AT FRONT SEAT (Z) ACCELERATION VS TIME	B- 64
60	RIGHT SIDE SILL AT FRONT SEAT (Z) VELOCITY VS TIME	B- 65
61	RIGHT SIDE SILL AT FRONT SEAT RESULTANT ACCELERATION VS TIME	B- 66
62	RIGHT SIDE SILL AT REAR SEAT (X) ACCELERATION VS TIME	B- 67
63	RIGHT SIDE SILL AT REAR SEAT (X) VELOCITY VS TIME	B- 68
64	RIGHT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME	B- 69
65	RIGHT SIDE SILL AT REAR SEAT (Y) VELOCITY VS TIME	B- 70
66	RIGHT SIDE SILL AT REAR SEAT (Z) ACCELERATION VS TIME	B- 71
67	RIGHT SIDE SILL AT REAR SEAT (Z) VELOCITY VS TIME	B- 72
68	RIGHT SIDE SILL AT REAR SEAT RESULTANT ACCELERATION VS TIME	B- 73
69	REAR FLOORPAN ABOVE AXLE (X) ACCELERATION VS TIME	B- 74
70	REAR FLOORPAN ABOVE AXLE (X) VELOCITY VS TIME	B- 75
71	REAR FLOORPAN ABOVE AXLE (Y) ACCELERATION VS TIME	B- 76
72	REAR FLOORPAN ABOVE AXLE (Y) VELOCITY VS TIME	B- 77
73	REAR FLOORPAN ABOVE AXLE (Z) ACCELERATION VS TIME	B- 78
74	REAR FLOORPAN ABOVE AXLE (Z) VELOCITY VS TIME	B- 79
75	REAR FLOORPAN ABOVE AXLE RESULTANT ACCELERATION VS TIME	B- 80
76	LEFT SIDE SILL AT REAR SEAT (Y) ACCELERATION VS TIME	B- 81
77	LEFT SIDE SILL AT REAR SEAT (Y) VELOCITY VS TIME	B- 82
78	LEFT SIDE SILL AT FRONT SEAT (Y) ACCELERATION VS TIME	B- 83
79	LEFT SIDE SILL AT FRONT SEAT (Y) VELOCITY VS TIME	B- 84
80	LEFT FRONT DOOR ON CENTERLINE (Y) ACCELERATION VS TIME	B- 85
81	LEFT FRONT DOOR ON CENTERLINE (Y) VELOCITY VS TIME	B- 86
82	RIGHT REAR OCCUPANT COMPARTMENT (Y) ACCELERATION VS TIME	B- 87
83	RIGHT REAR OCCUPANT COMPARTMENT (Y) VELOCITY VS TIME	B- 88
84	MID REAR OF LEFT FRONT DOOR (Y) ACCELERATION VS TIME	B- 89
85	MID REAR OF LEFT FRONT DOOR (Y) VELOCITY VS TIME	B- 90
86	LEFT FRONT DOOR UPPER CENTERLINE (Y) ACCELERATION VS TIME	B- 91
87	LEFT FRONT DOOR UPPER CENTERLINE (Y) VELOCITY VS TIME	B- 92
88	MID REAR OF LEFT REAR DOOR (Y) ACCELERATION VS TIME	B- 93
89	MID REAR OF LEFT REAR DOOR (Y) VELOCITY VS TIME	B- 94
90	LEFT REAR DOOR UPPER CENTERLINE (Y) ACCELERATION VS TIME	B- 95
91	LEFT REAR DOOR UPPER CENTERLINE (Y) VELOCITY VS TIME	B- 96
92	LOWER B-POST (Y) ACCELERATION VS TIME	B- 97
93	LOWER B-POST (Y) VELOCITY VS TIME	B- 98
94	UPPER B-POST (Y) ACCELERATION VS TIME	B- 99
95	UPPER B-POST (Y) VELOCITY VS TIME	B- 100
96	LOWER A-POST (Y) ACCELERATION VS TIME	B- 101

TEST VEHICLE INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
97	LOWER A-POST (Y) VELOCITY VS TIME	B- 102
98	UPPER A-POST (Y) ACCELERATION VS TIME	B- 103
99	UPPER A-POST (Y) VELOCITY VS TIME	B- 104
100	FRONT SEAT TRACK (Y) ACCELERATION VS TIME	B- 105
101	FRONT SEAT TRACK (Y) VELOCITY VS TIME	B- 106
102	REAR SEAT TRACK (Y) ACCELERATION VS TIME	B- 107
103	REAR SEAT TRACK (Y) VELOCITY VS TIME	B- 108
104	VEHICLE CENTER OF GRAVITY (X) ACCELERATION VS TIME	B- 109
105	VEHICLE CENTER OF GRAVITY (X) VELOCITY VS TIME	B- 110
106	VEHICLE CENTER OF GRAVITY (Y) ACCELERATION VS TIME	B- 111
107	VEHICLE CENTER OF GRAVITY (Y) VELOCITY ACCELERATION VS TIME	B- 112
108	VEHICLE CENTER OF GRAVITY (Z) ACCELERATION VS TIME	B- 113
109	VEHICLE CENTER OF GRAVITY (Z) VELOCITY VS TIME	B- 114
110	VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME	B- 115

MDB INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
111	MDB CENTER OF GRAVITY (X) ACCELERATION VS TIME	B- 116
112	MDB CENTER OF GRAVITY (X) VELOCITY VS TIME	B- 117
113	MDB CENTER OF GRAVITY (Y) ACCELERATION VS TIME	B- 118
114	MDB CENTER OF GRAVITY (Y) VELOCITY VS TIME	B- 119
115	MDB CENTER OF GRAVITY (Z) ACCELERATION VS TIME	B- 120
116	MDB CENTER OF GRAVITY (Z) VELOCITY VS TIME	B- 121
117	MDB CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME	B- 122
118	MDB REAR (X) ACCELERATION VS TIME	B- 123
119	MDB REAR (X) VELOCITY VS TIME	B- 124
120	MDB REAR (Y) ACCELERATION VS TIME	B- 125
121	MDB REAR (Y) VELOCITY VS TIME	B- 126

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS (REDUNDANT)
ACCELERATION DATA - FILTER CLASS 1000, LOWER SPINE - FILTER CLASS 180
INTEGRATION DATA - FILTER CLASS 180

<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
122	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 127
123	DRIVER UPPER RIB (Y) VELOCITY VS TIME	B- 128
124	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 129
125	DRIVER LOWER RIB (Y) VELOCITY VS TIME	B- 130
126	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 131
127	DRIVER LOWER SPINE (Y) VELOCITY VS TIME	B- 132
128	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 133
129	DRIVER PELVIC (Y) VELOCITY VS TIME	B- 134
130	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 135
131	PASSENGER UPPER RIB (Y) VELOCITY VS TIME	B- 136
132	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 137
133	PASSENGER LOWER RIB (Y) VELOCITY VS TIME	B- 138
134	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 139
135	PASSENGER LOWER SPINE (Y) VELOCITY VS TIME	B- 140
136	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 141
137	PASSENGER PELVIC (Y) VELOCITY VS TIME	B- 142

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS (REDUNDANT)
ACCELERATION DATA - FIR FILTERED

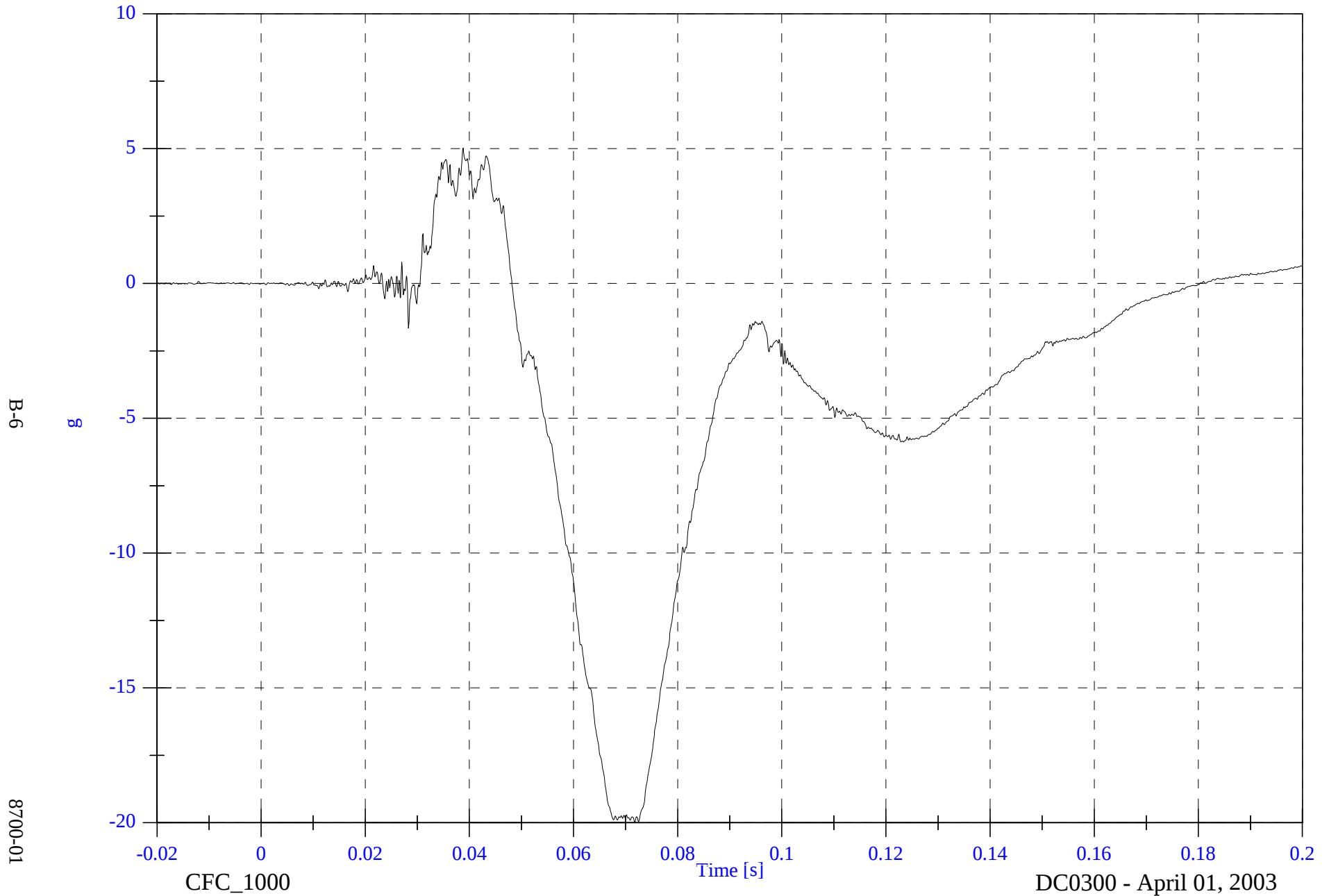
<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
138	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 143
139	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 144
140	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 145
141	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 146
142	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 147
143	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 148
144	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 149
145	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 150

2004 Chrysler Pacifica Optional SNCAP

V2P1 Head x

Max: 5.0 [g] at 0.039 [s]

Min: -20.0 [g] at 0.072 [s]

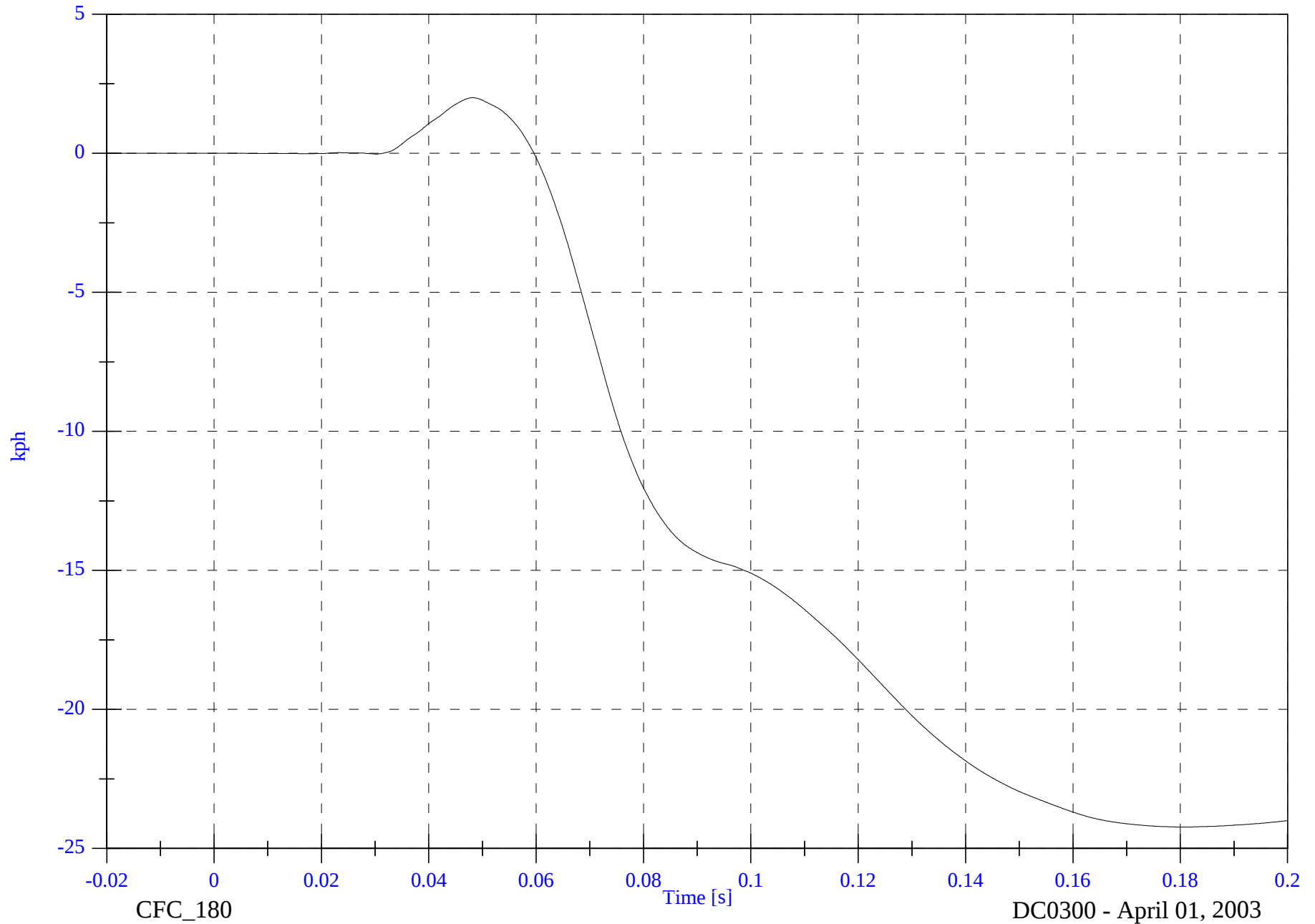


2004 Chrysler Pacifica Optional SNCAP

V2P1 Head x Velocity

Max: 2.0 [kph] at 0.048 [s]

Min: -24.2 [kph] at 0.180 [s]



B-7

8700-01

CFC_180

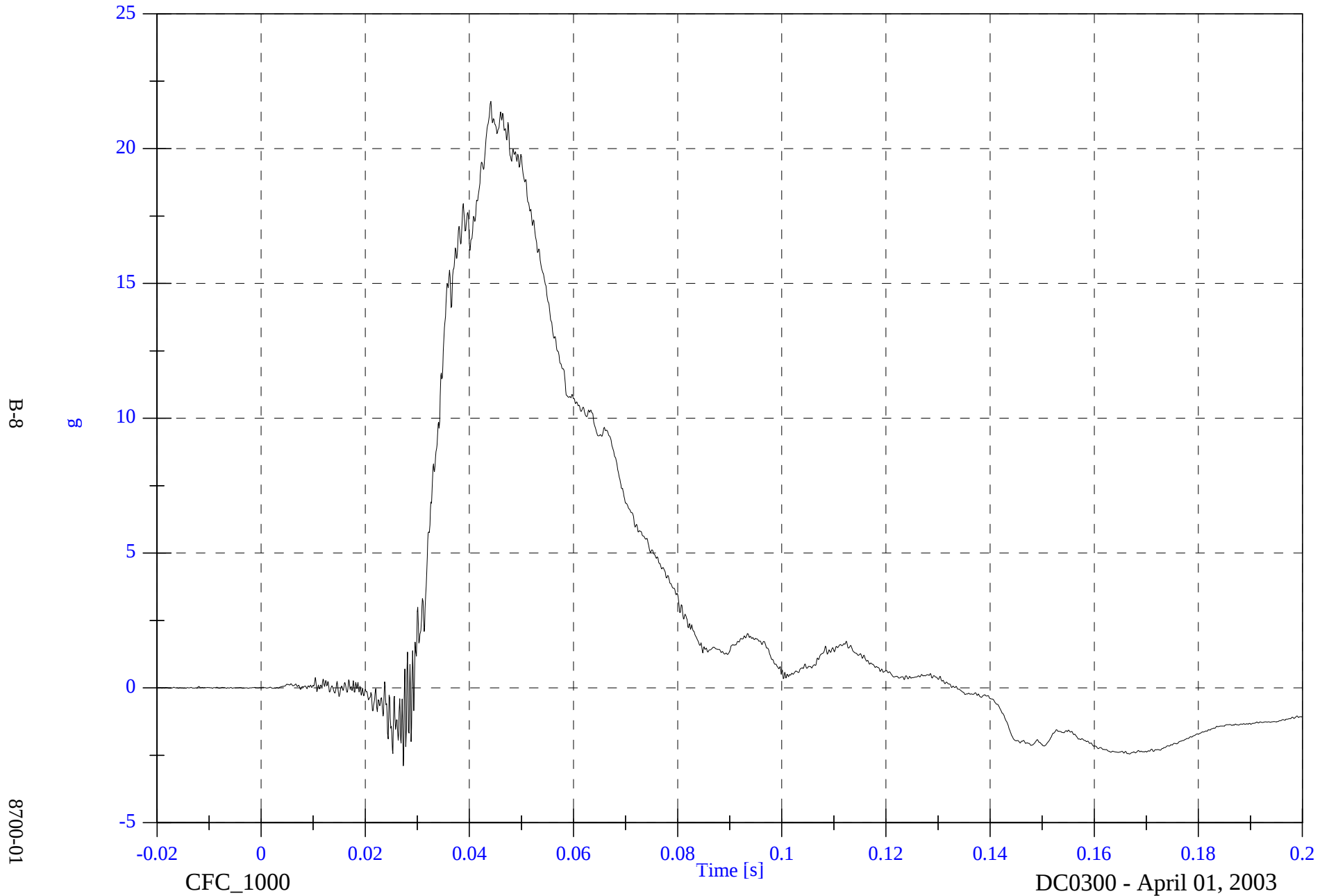
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2P1 Head y

Max: 21.8 [g] at 0.044 [s]

Min: -2.9 [g] at 0.027 [s]

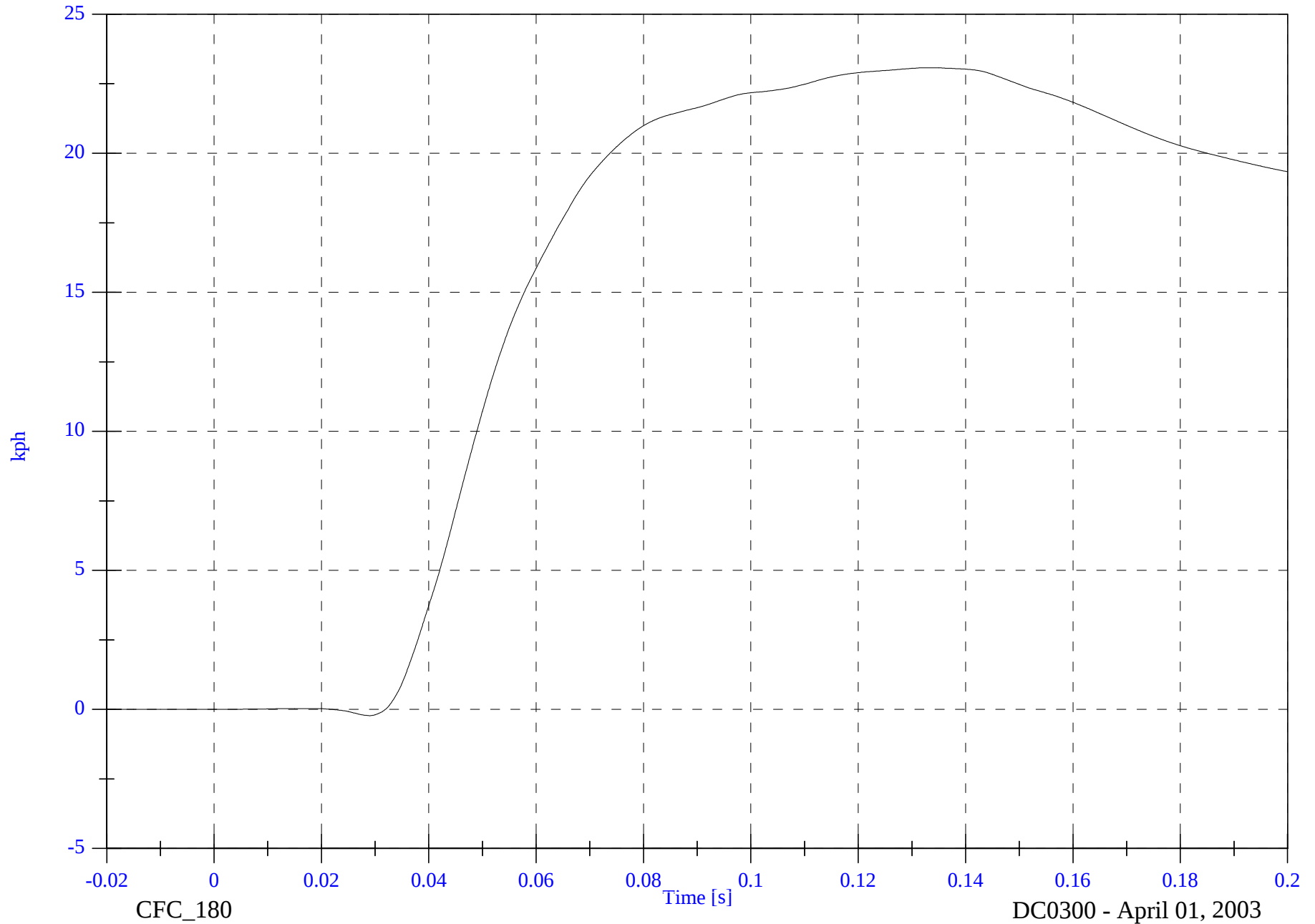


2004 Chrysler Pacifica Optional SNCAP

V2P1 Head y Velocity

Max: 23.1 [kph] at 0.134 [s]

Min: -0.2 [kph] at 0.029 [s]



B-9

8700-01

CFC_180

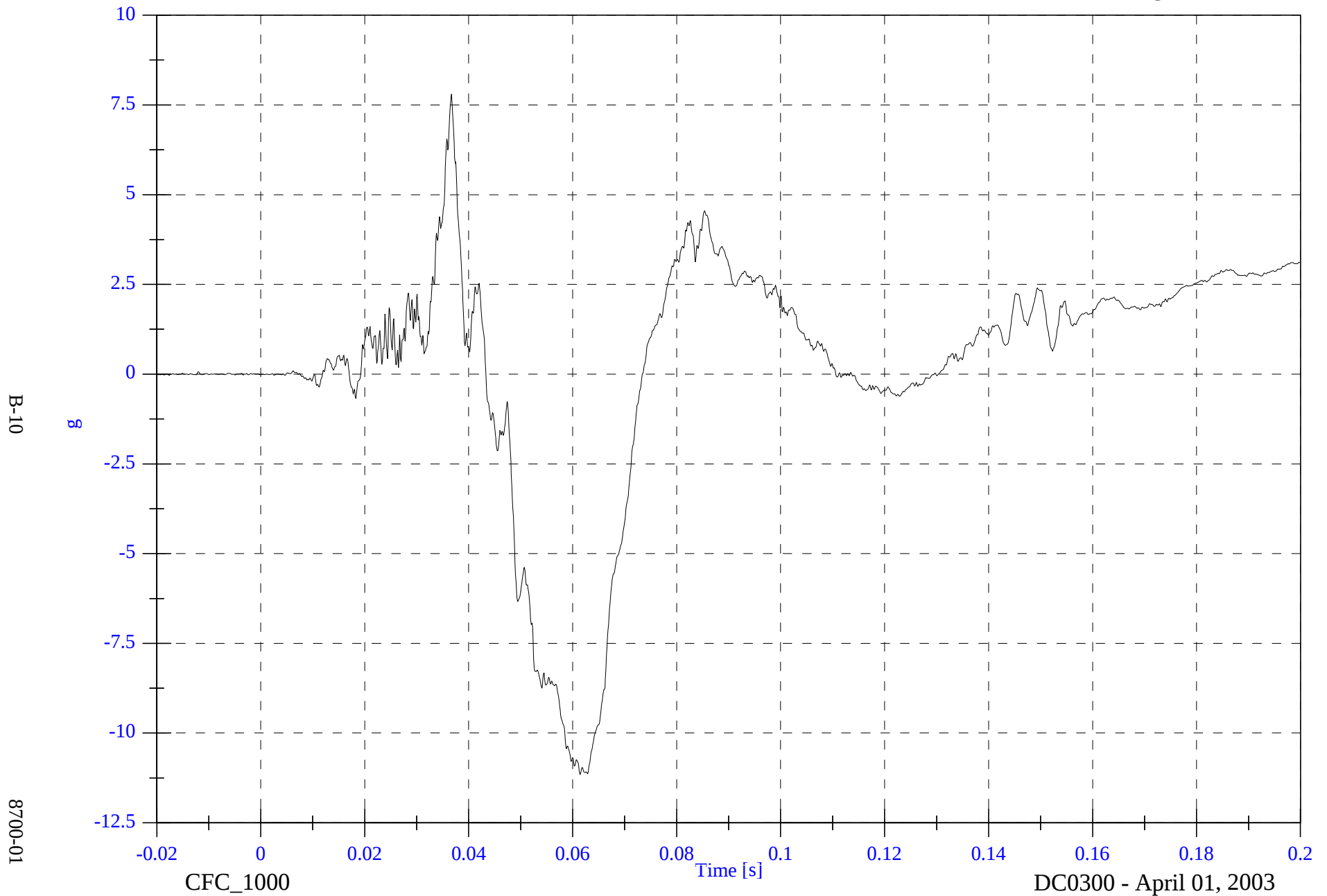
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2P1 Head z

Max: 7.8 [g] at 0.037 [s]

Min: -11.2 [g] at 0.061 [s]

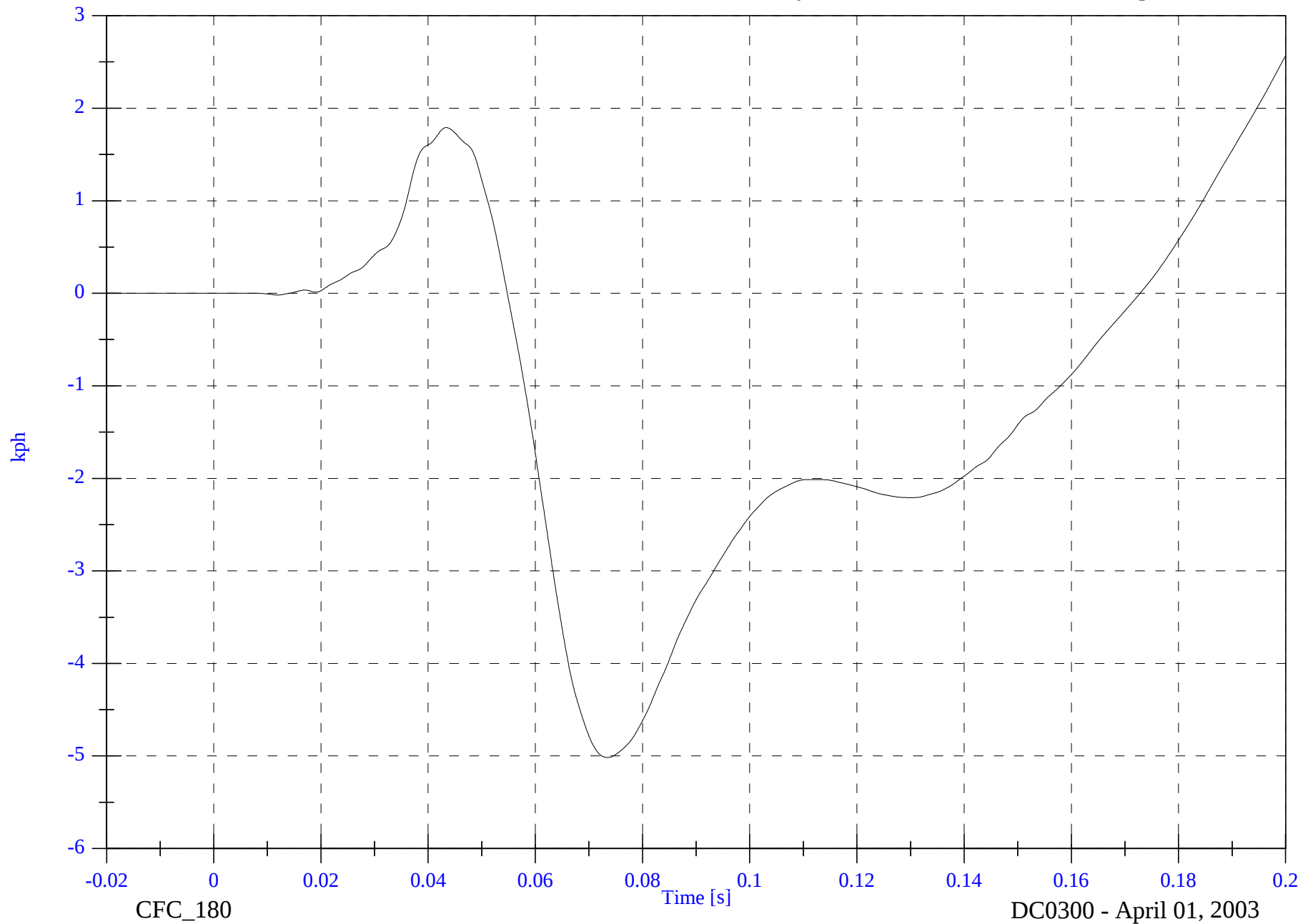


2004 Chrysler Pacifica Optional SNCAP

V2P1 Head z Velocity

Max: 2.6 [kph] at 0.200 [s]

Min: -5.0 [kph] at 0.073 [s]



B-11

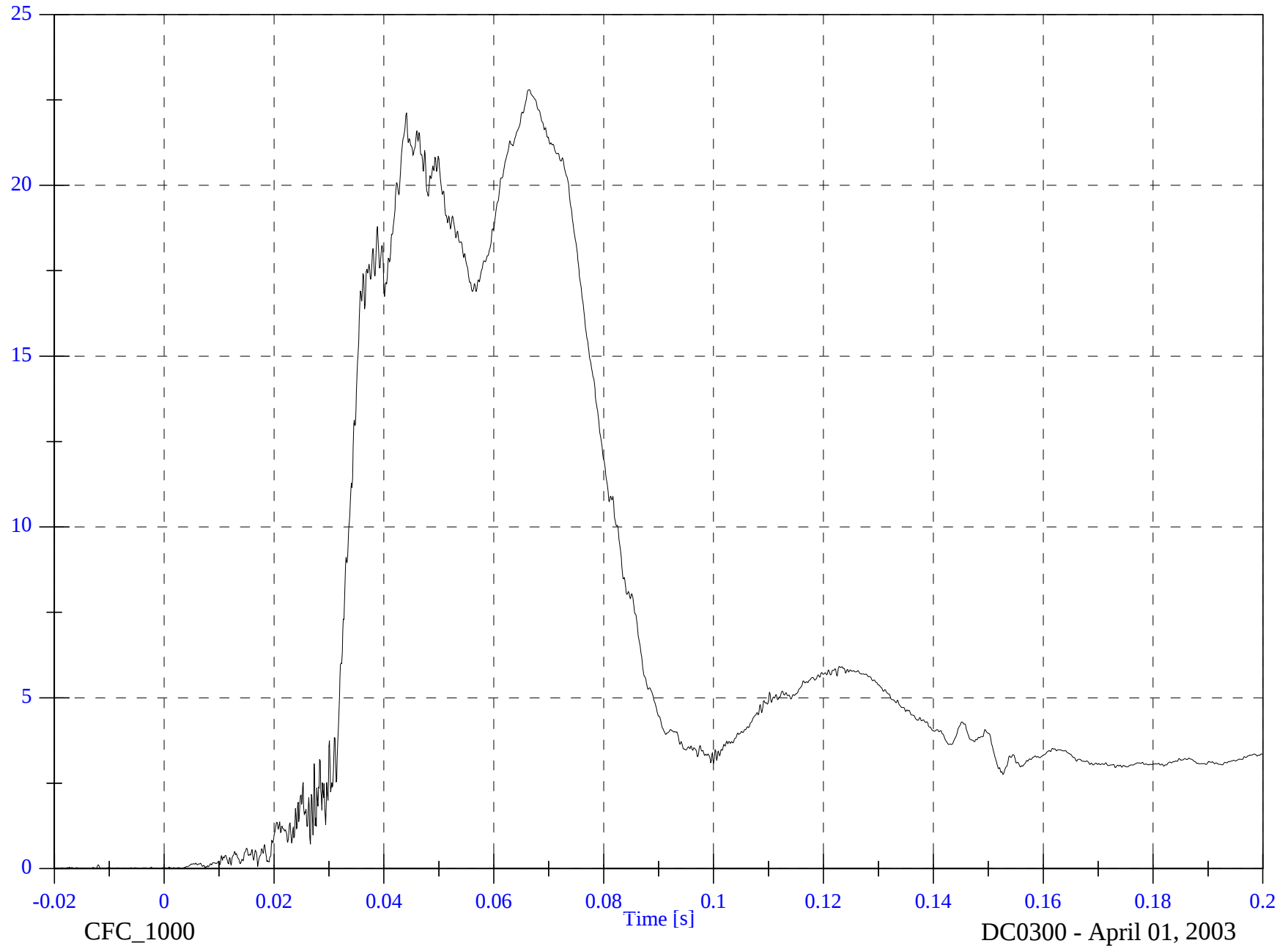
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Head Resultant

Max: 22.8 [g] at 0.067 [s]

Min: 0.0 [g] at -0.016 [s]



B-12

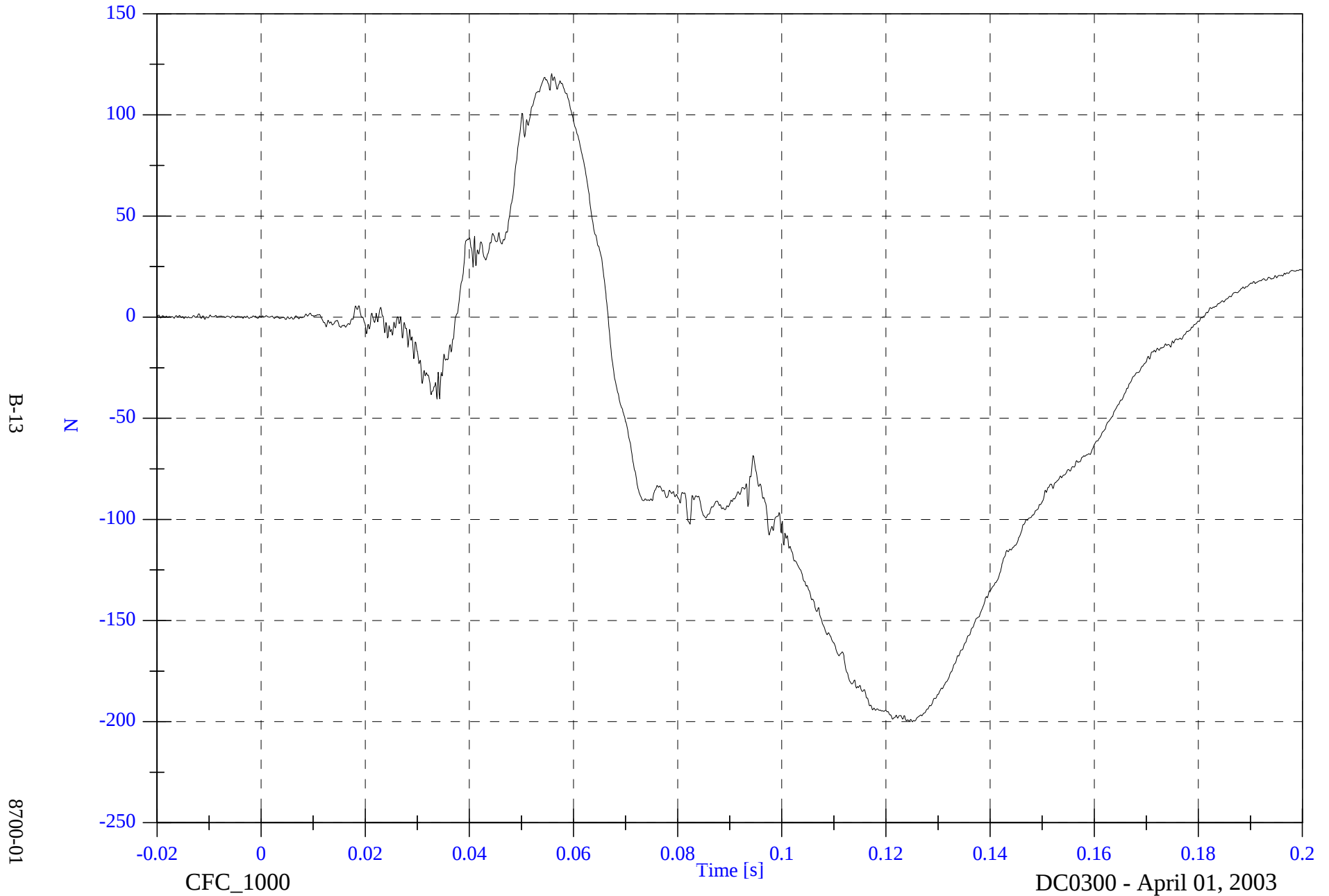
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Neck Fx

Max: 120.5 [N] at 0.056 [s]

Min: -200.0 [N] at 0.125 [s]

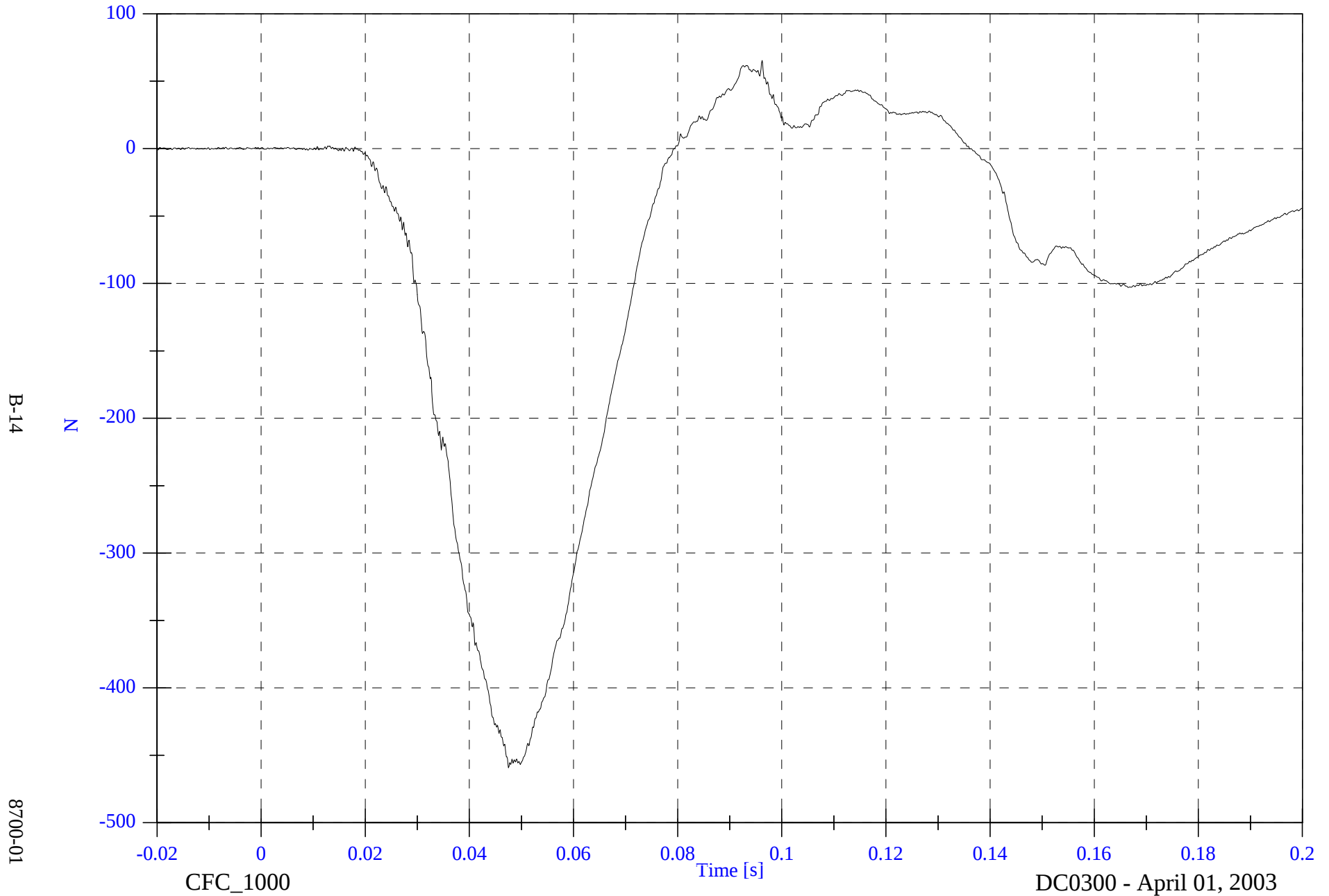


2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Neck Fy

Max: 65.5 [N] at 0.096 [s]

Min: -459.2 [N] at 0.048 [s]

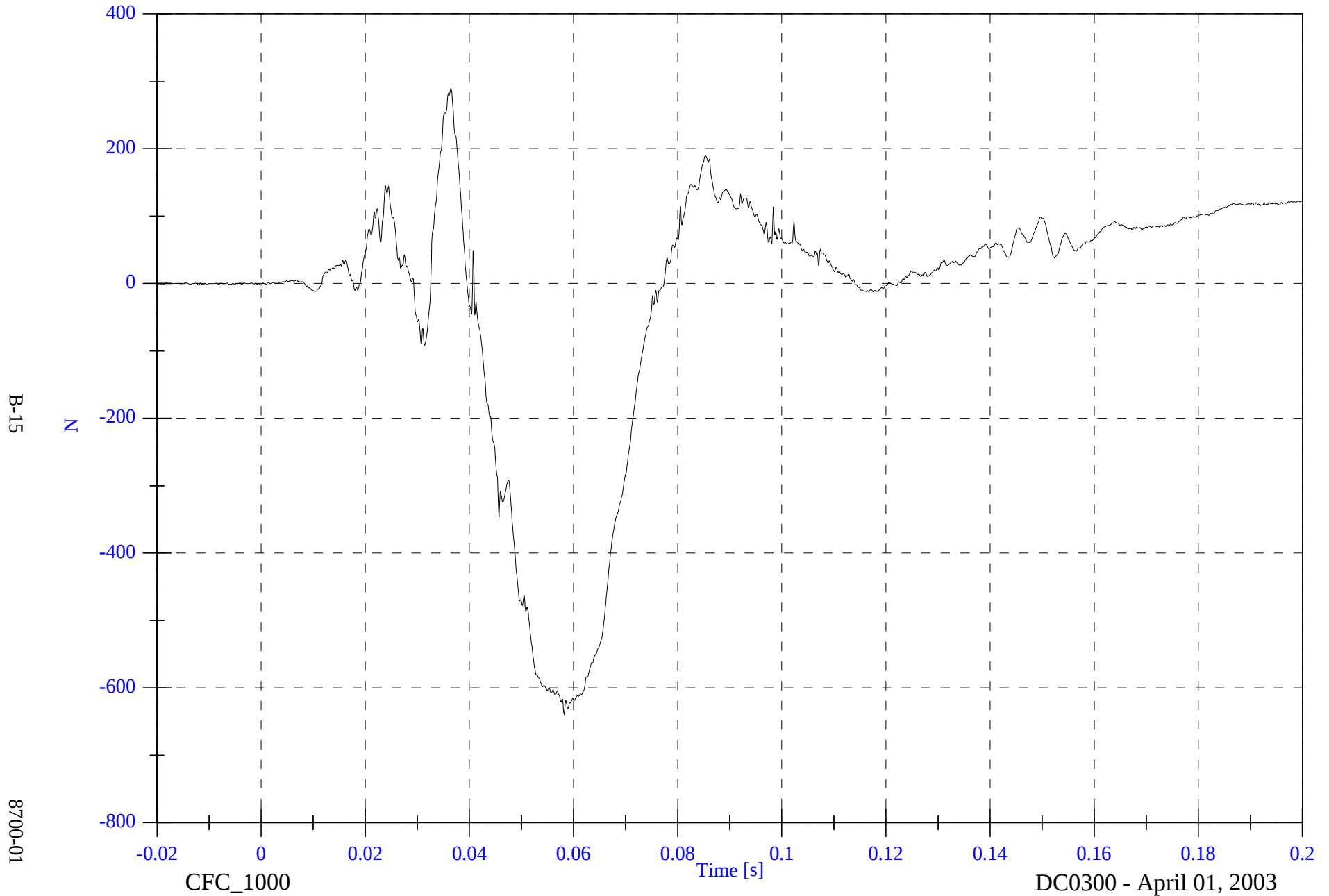


2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Neck Fz

Max: 288.9 [N] at 0.036 [s]

Min: -639.5 [N] at 0.058 [s]

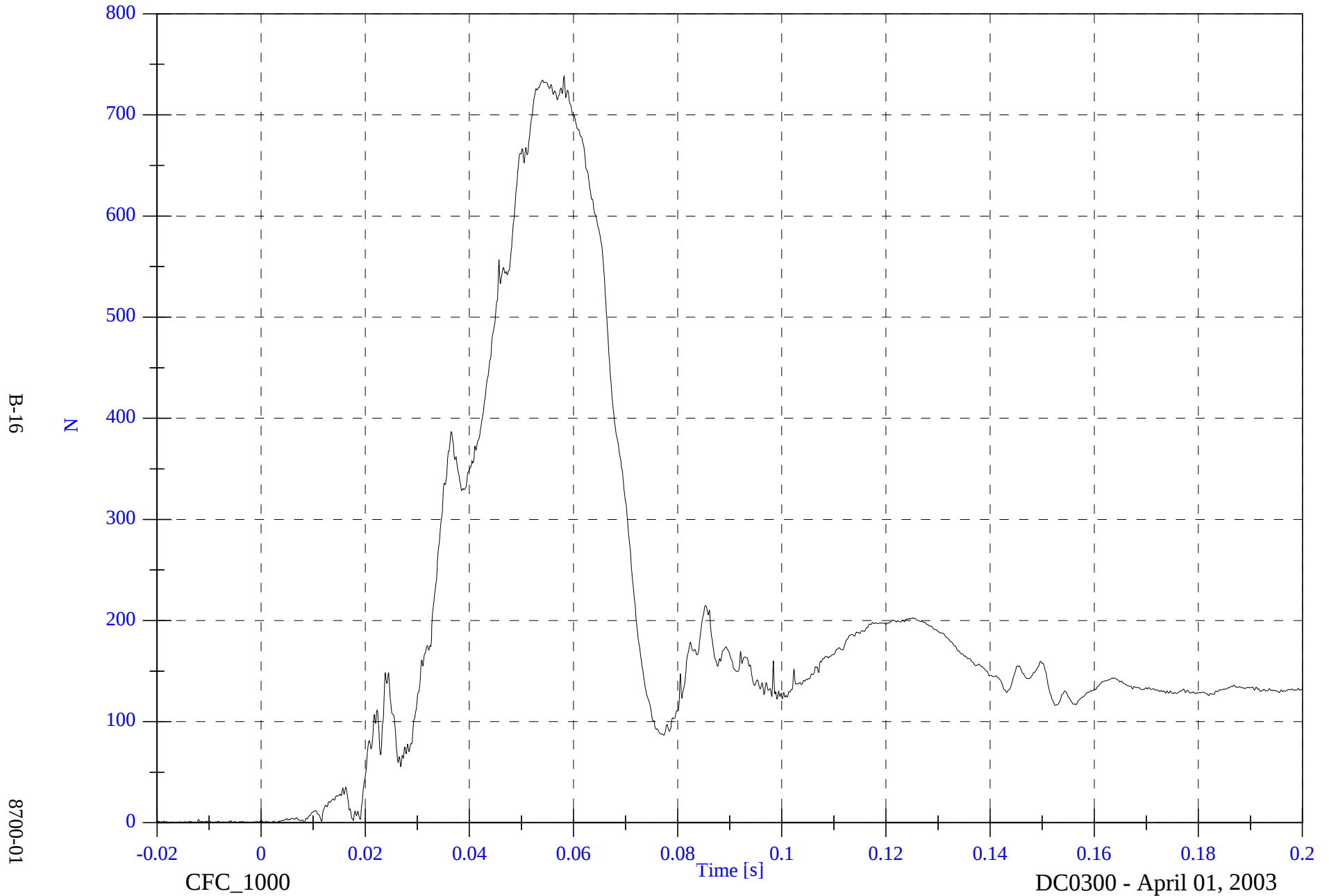


2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Neck F Resultant

Max: 738.9 [N] at 0.058 [s]

Min: 0.1 [N] at 0.002 [s]

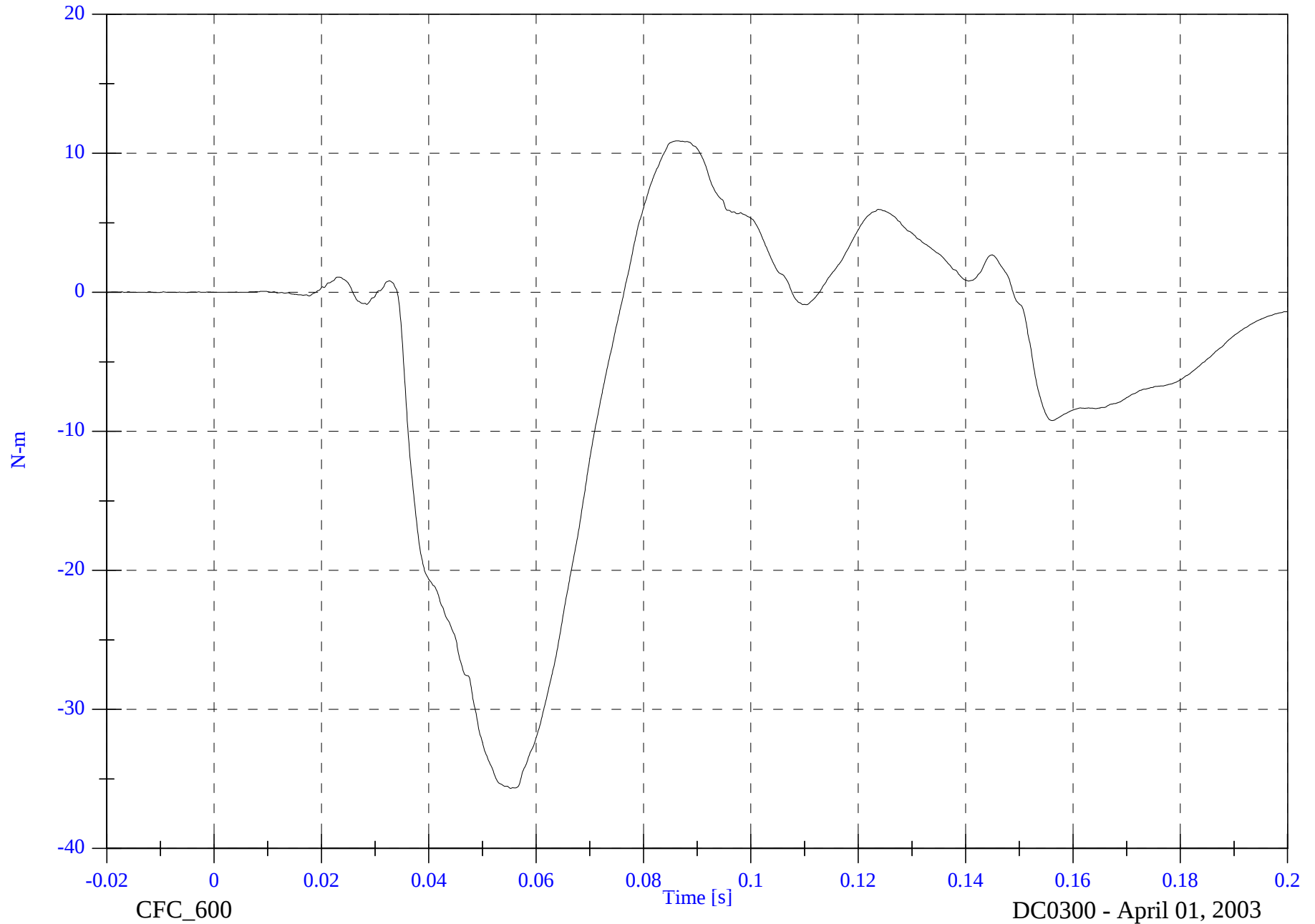


2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Neck Mx

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

Min: -35.7 [N-m] at 0.055 [s]



B-17

8700-01

CFC_600

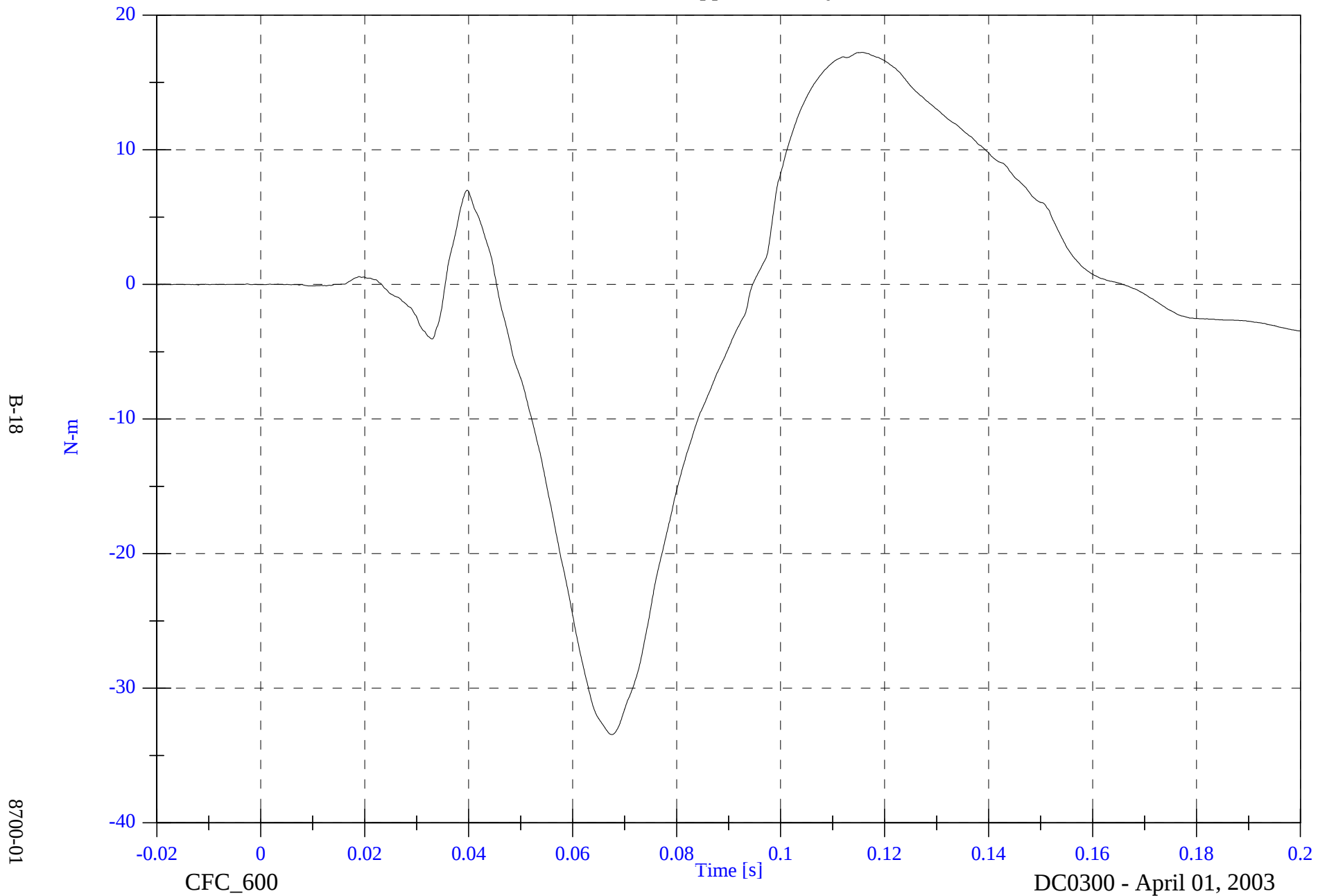
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Neck My

Max: 17.2 [N-m] at 0.116 [s]

Min: -33.4 [N-m] at 0.068 [s]

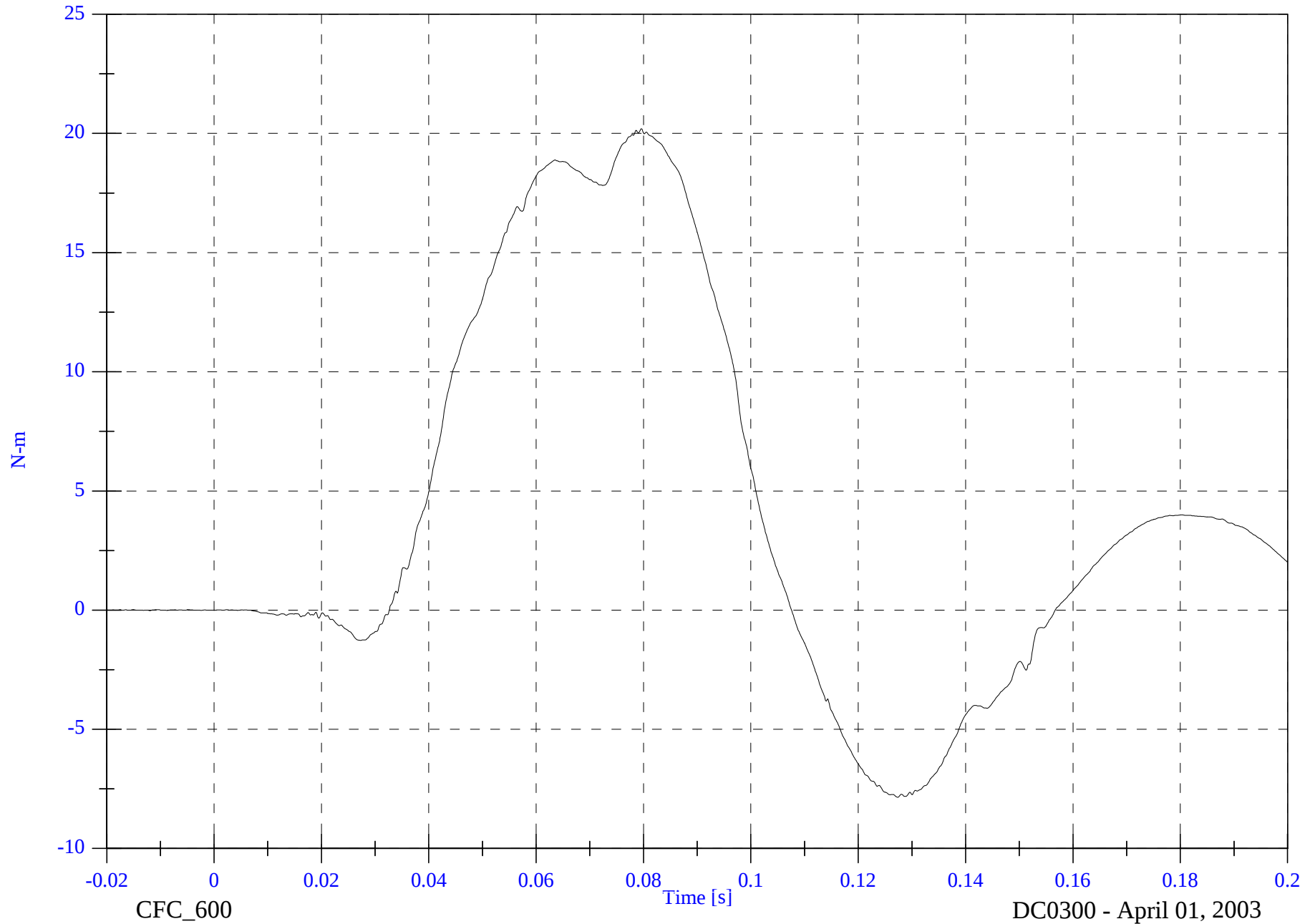


2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Neck Mz

Max: 20.2 [N-m] at 0.080 [s]

Min: -7.9 [N-m] at 0.127 [s]



B-19

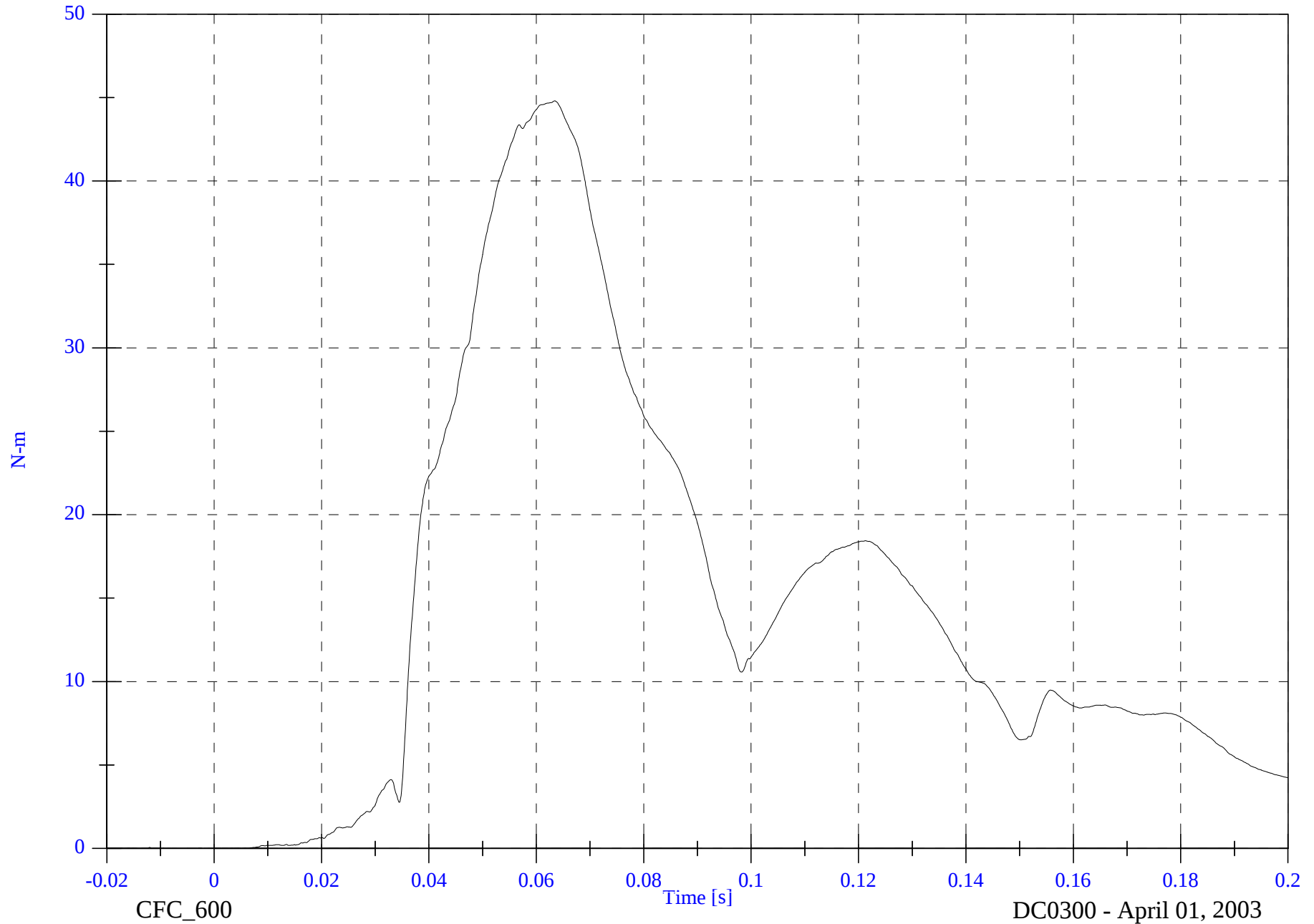
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Neck M Resultant

Max: 44.8 [N-m] at 0.063 [s]

Min: 0.0 [N-m] at 0.003 [s]



B-20

8700-01

CFC_600

DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

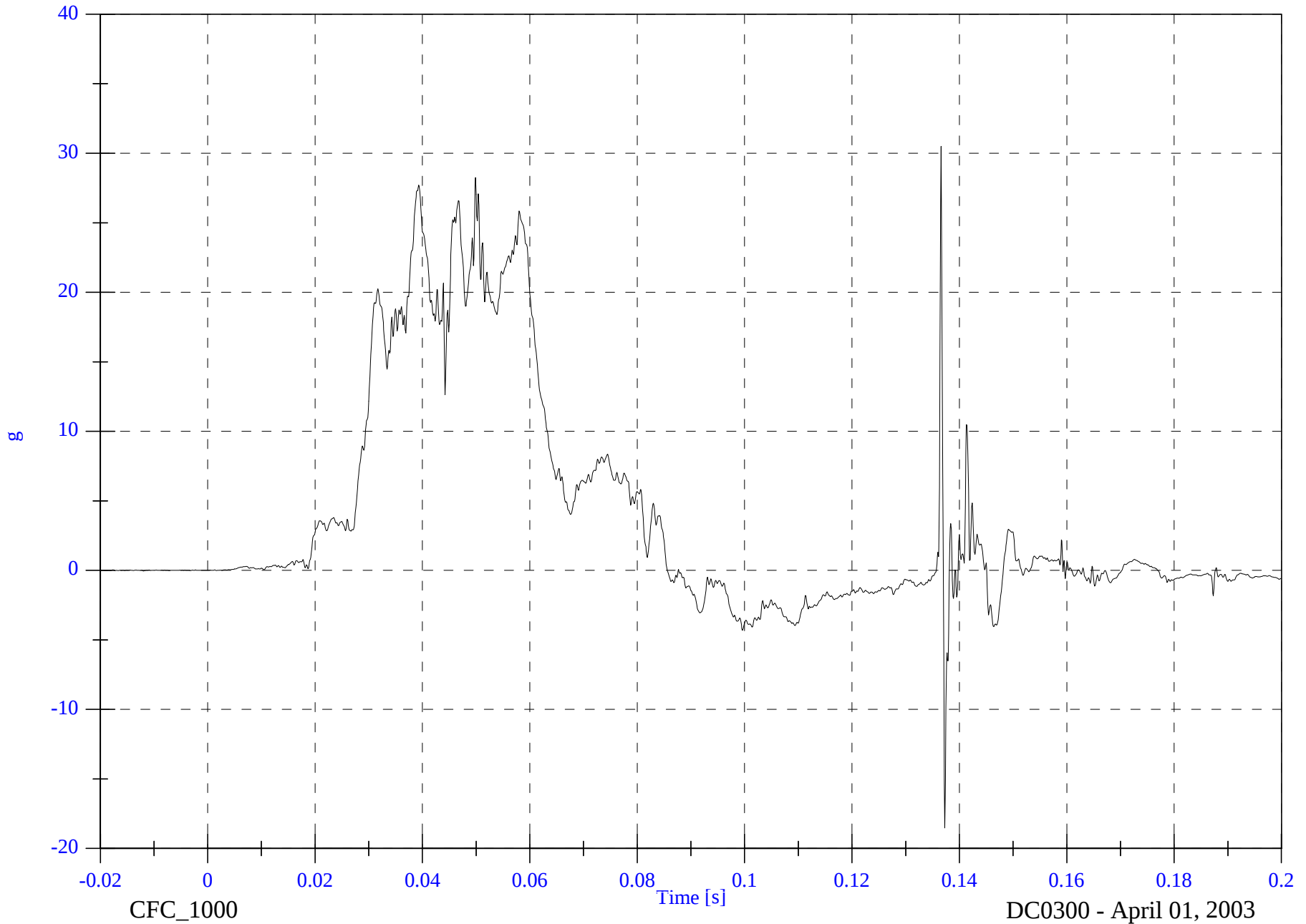
V2P1 Upper Rib y

Max: 30.5 [g] at 0.137 [s]

Min: -18.5 [g] at 0.137 [s]

B-21

8700-01

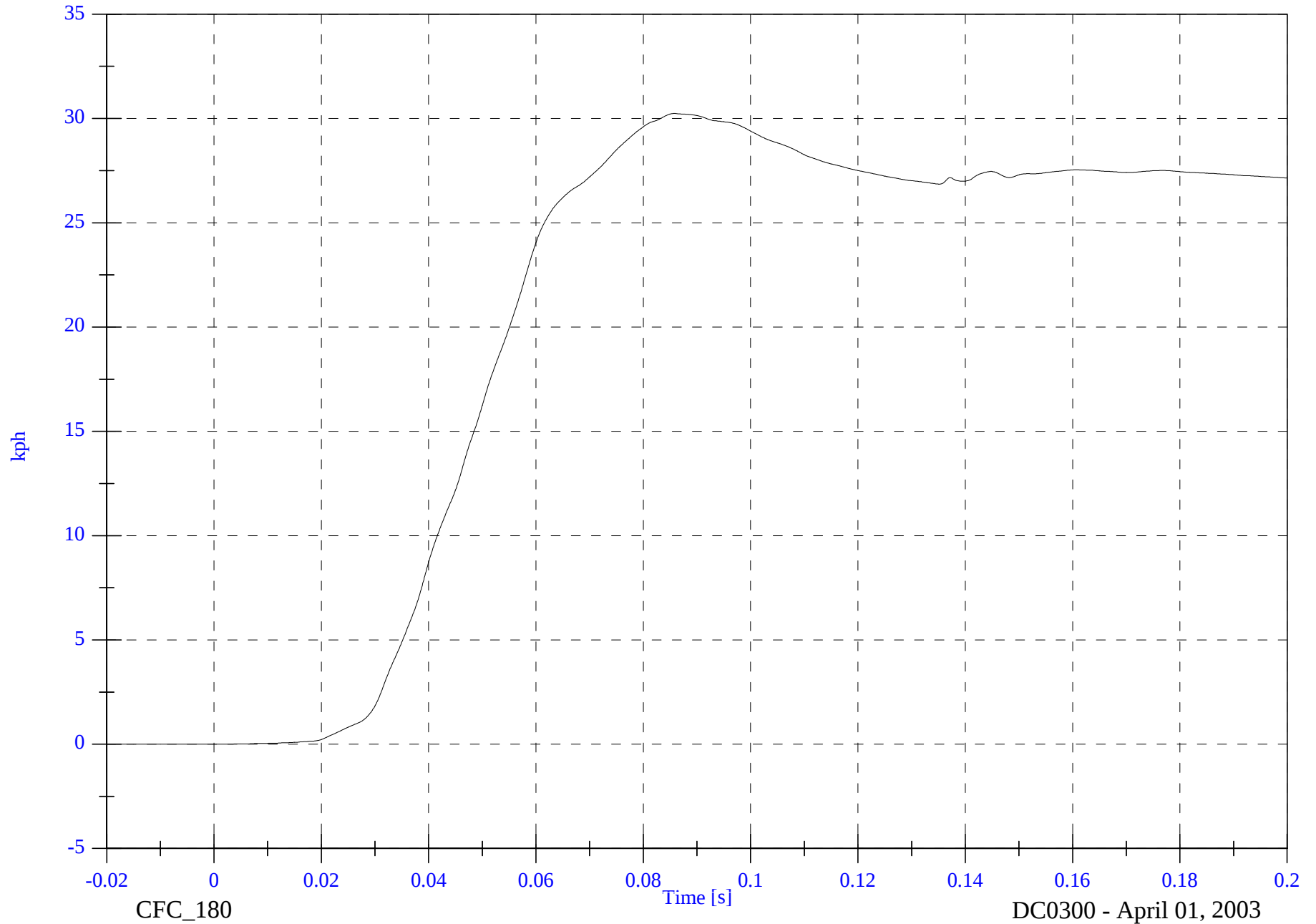


2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Rib y Velocity

Max: 30.2 [kph] at 0.086 [s]

Min: -0.0 [kph] at -0.020 [s]



B-22

8700-01

CFC_180

DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

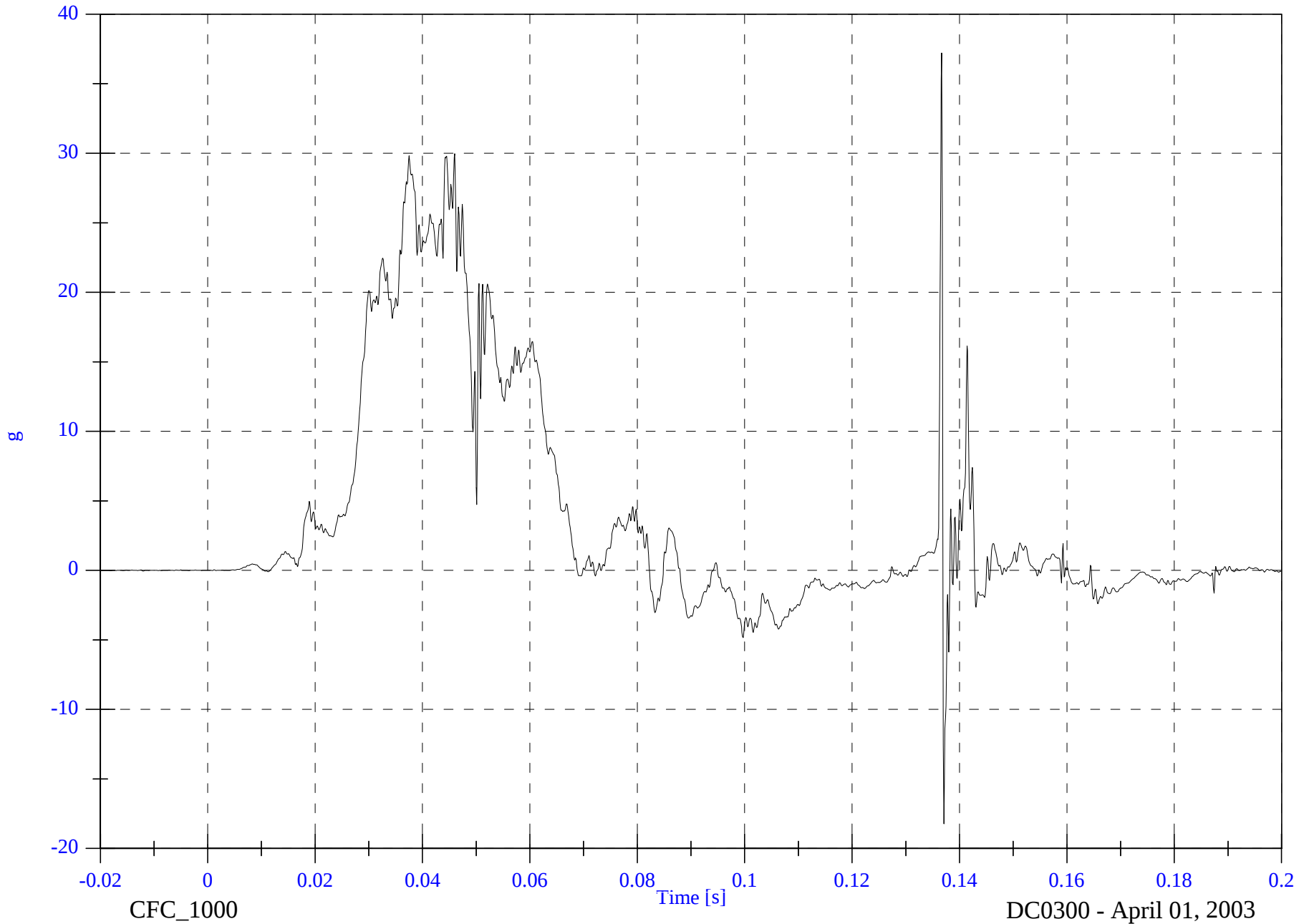
V2P1 Lower Rib y

Max: 37.2 [g] at 0.137 [s]

Min: -18.2 [g] at 0.137 [s]

B-23

8700-01

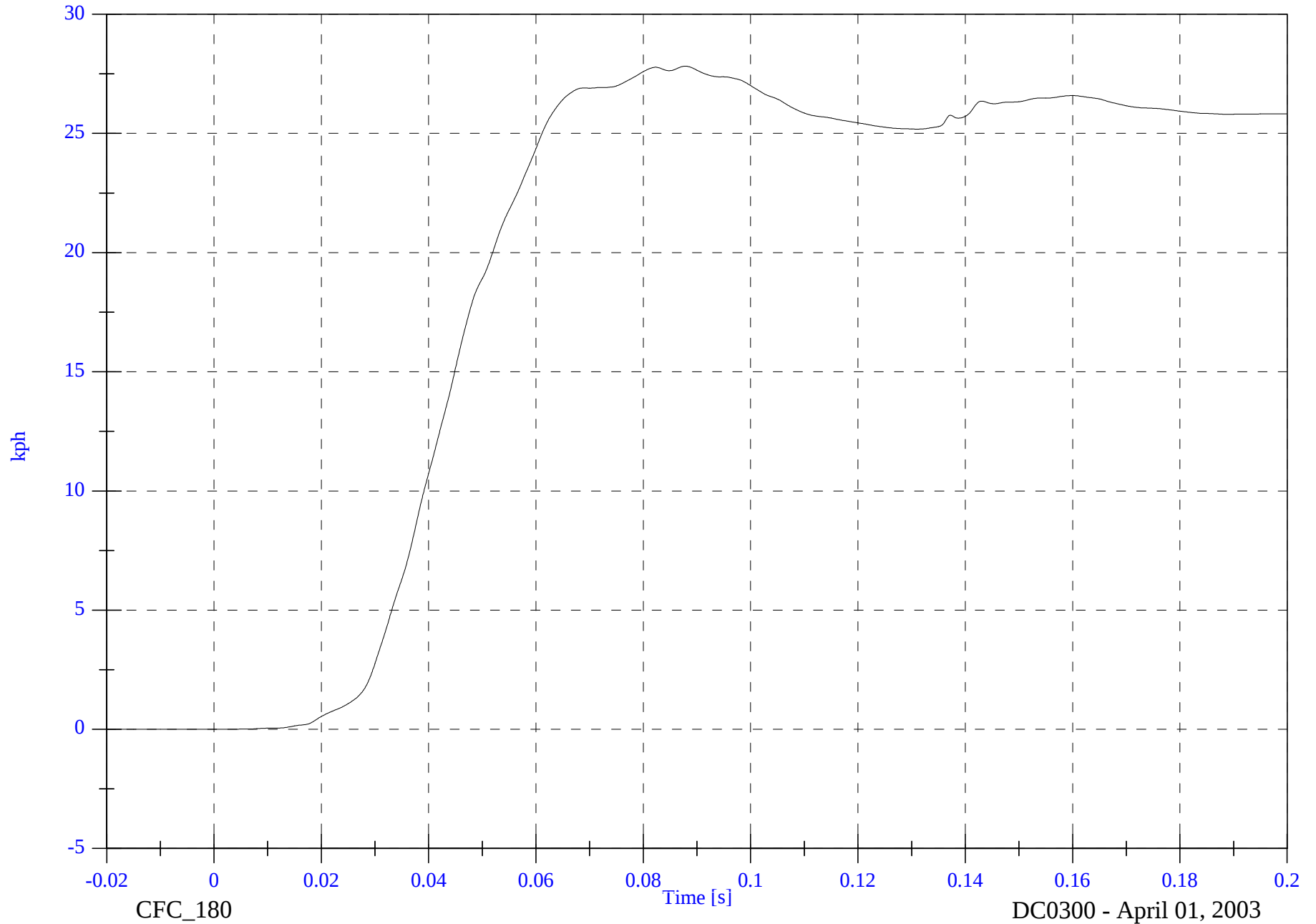


2004 Chrysler Pacifica Optional SBCAP

V2P1 Lower Rib y Velocity

Max: 27.8 [kph] at 0.088 [s]

Min: -0.0 [kph] at -0.017 [s]



B-24

8700-01

CFC_180

DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

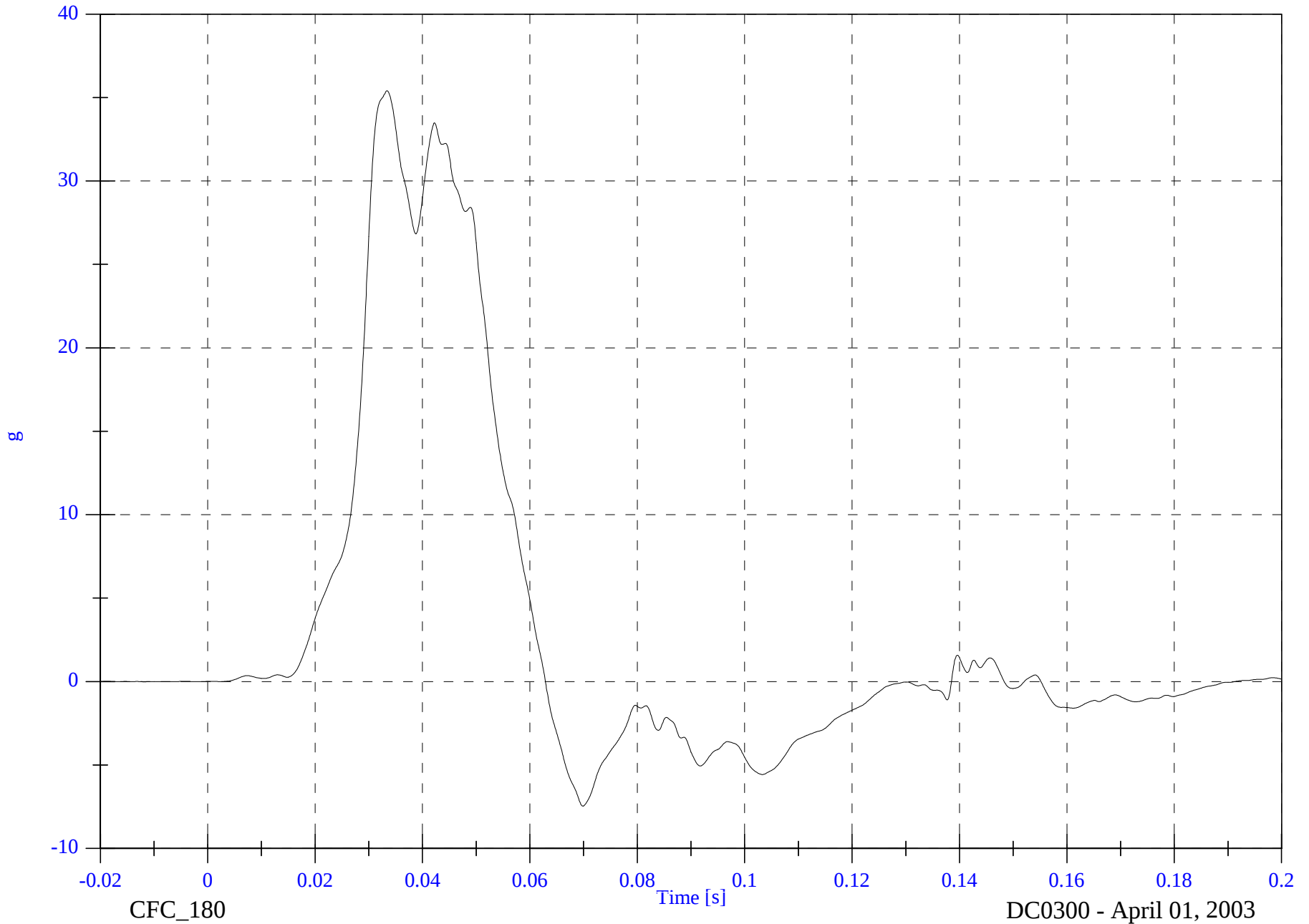
V2P1 Lower Spine y

Max: 35.4 [g] at 0.033 [s]

Min: -7.5 [g] at 0.070 [s]

B-25

8700-01

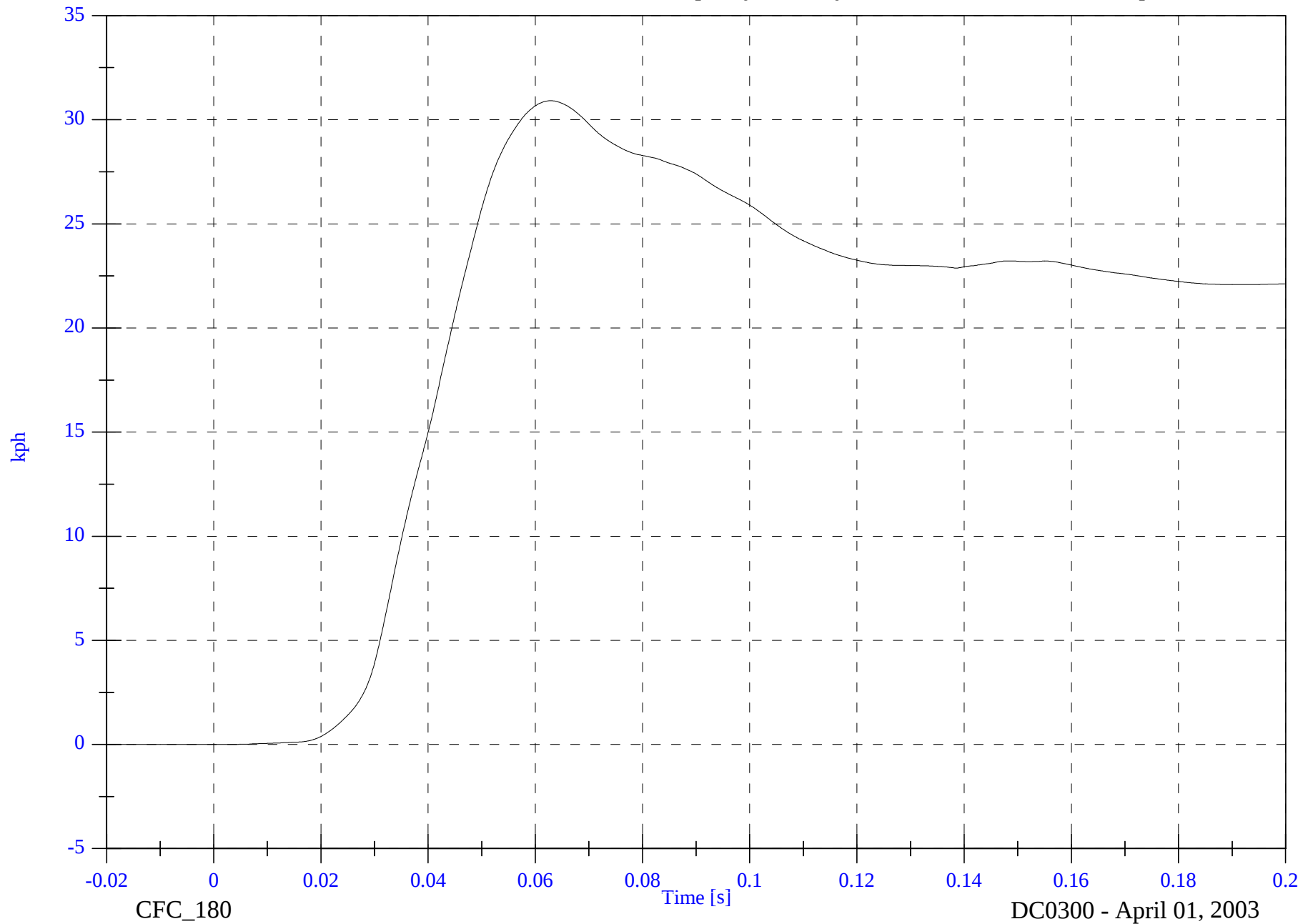


2004 Chrysler Pacifica Optional SNCAP

V2P1 Lower Spine y Velocity

Max: 30.9 [kph] at 0.063 [s]

Min: -0.0 [kph] at -0.020 [s]



B-26

8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Pelvic y

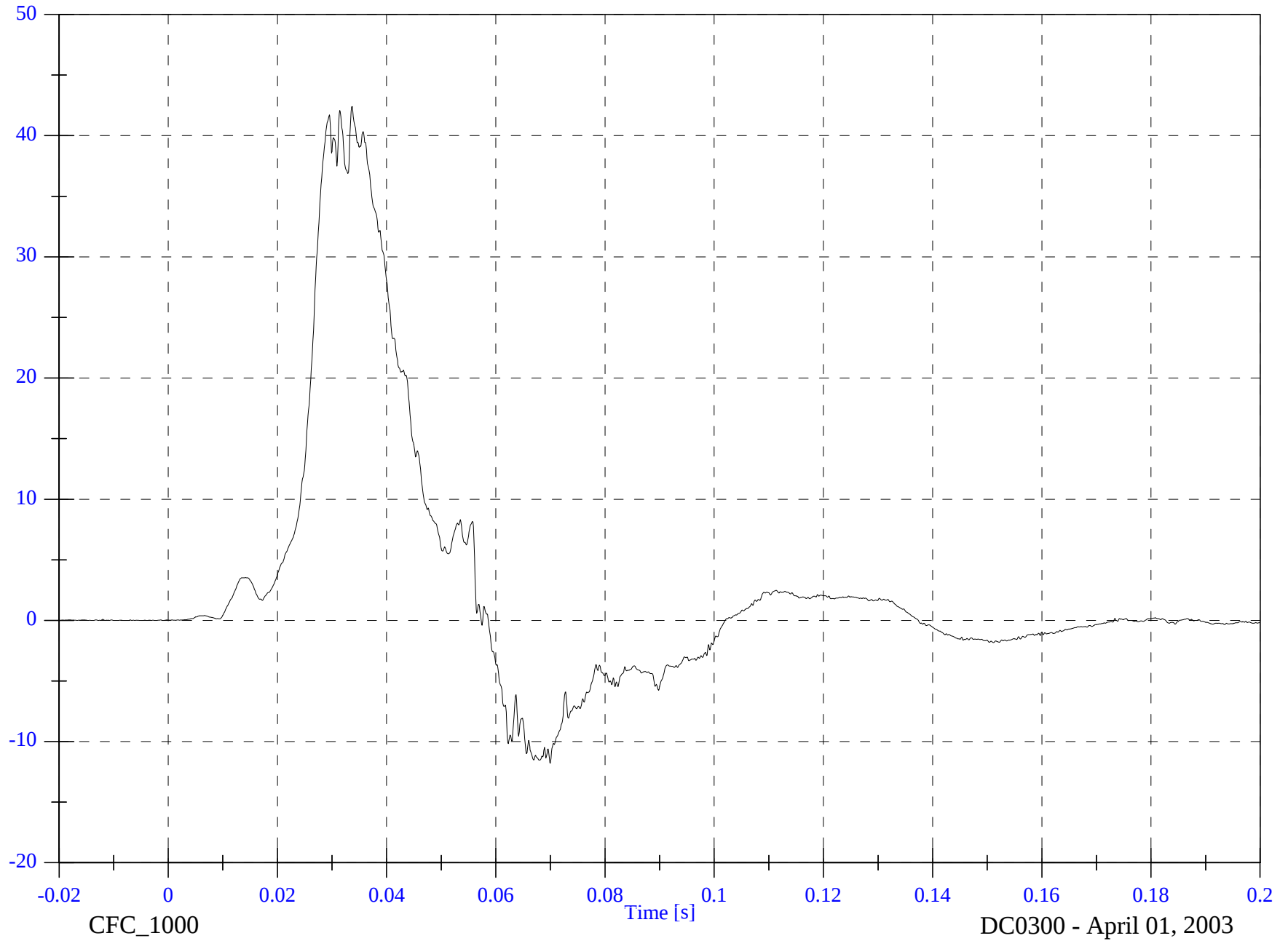
Max: 42.4 [g] at 0.034 [s]

Min: -11.8 [g] at 0.070 [s]

B-27

g

8700-01

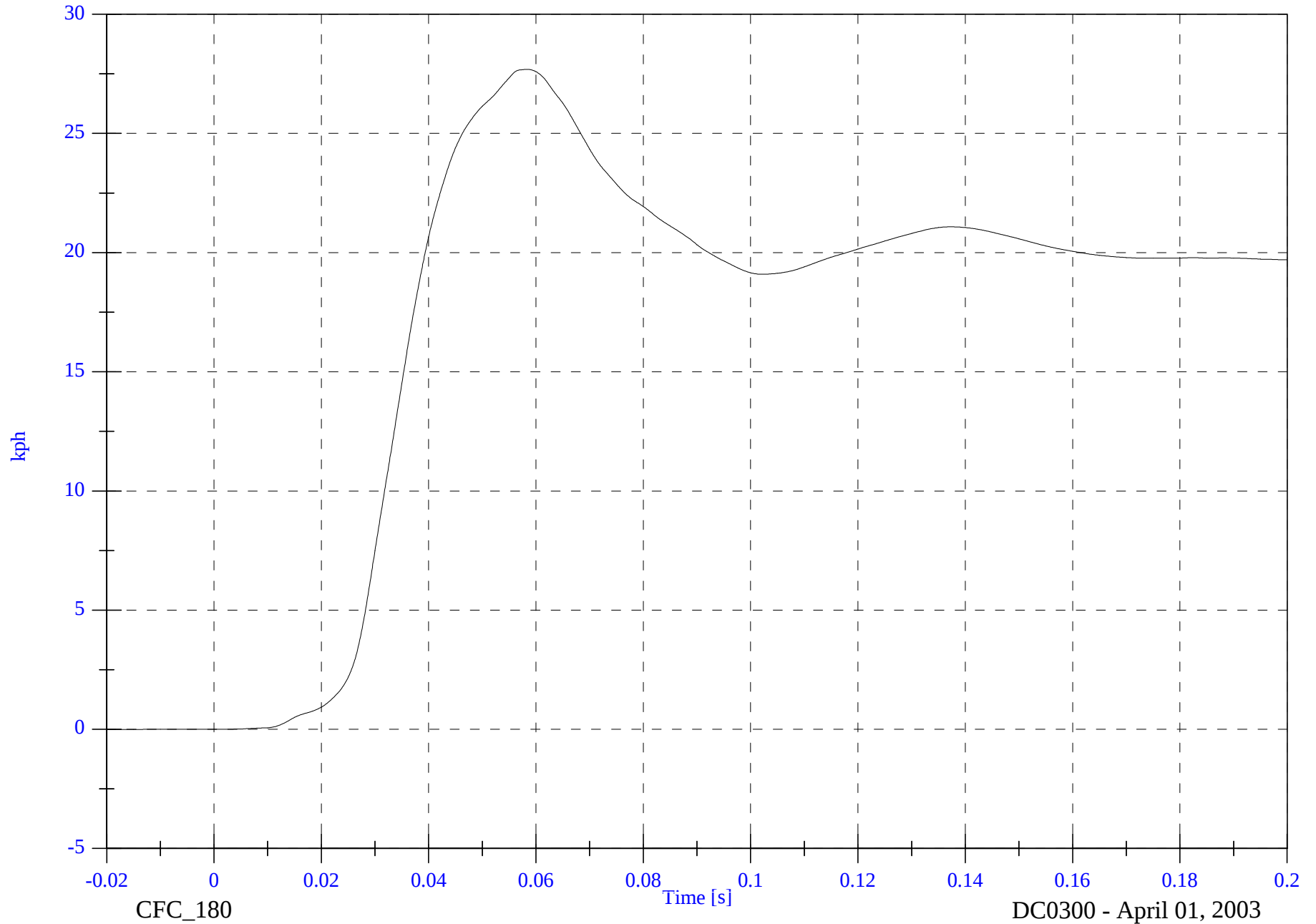


2004 Chrysler Pacifica Optional SNCAP

V2P1 Pelvic y Velocity

Max: 27.7 [kph] at 0.058 [s]

Min: -0.0 [kph] at -0.020 [s]



B-28

8700-01

CFC_180

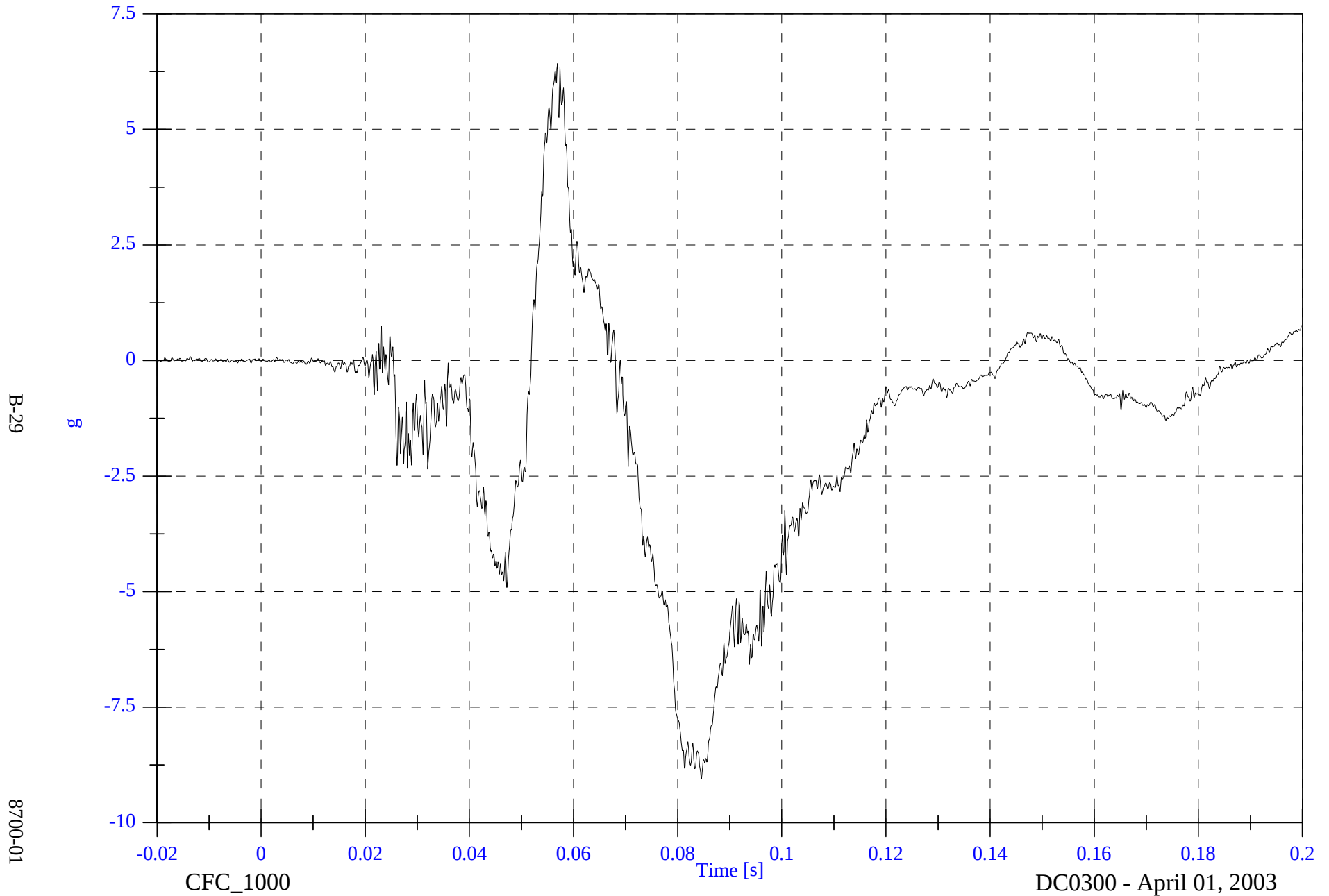
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2P4 Head x

Max: 6.4 [g] at 0.057 [s]

Min: -9.1 [g] at 0.085 [s]

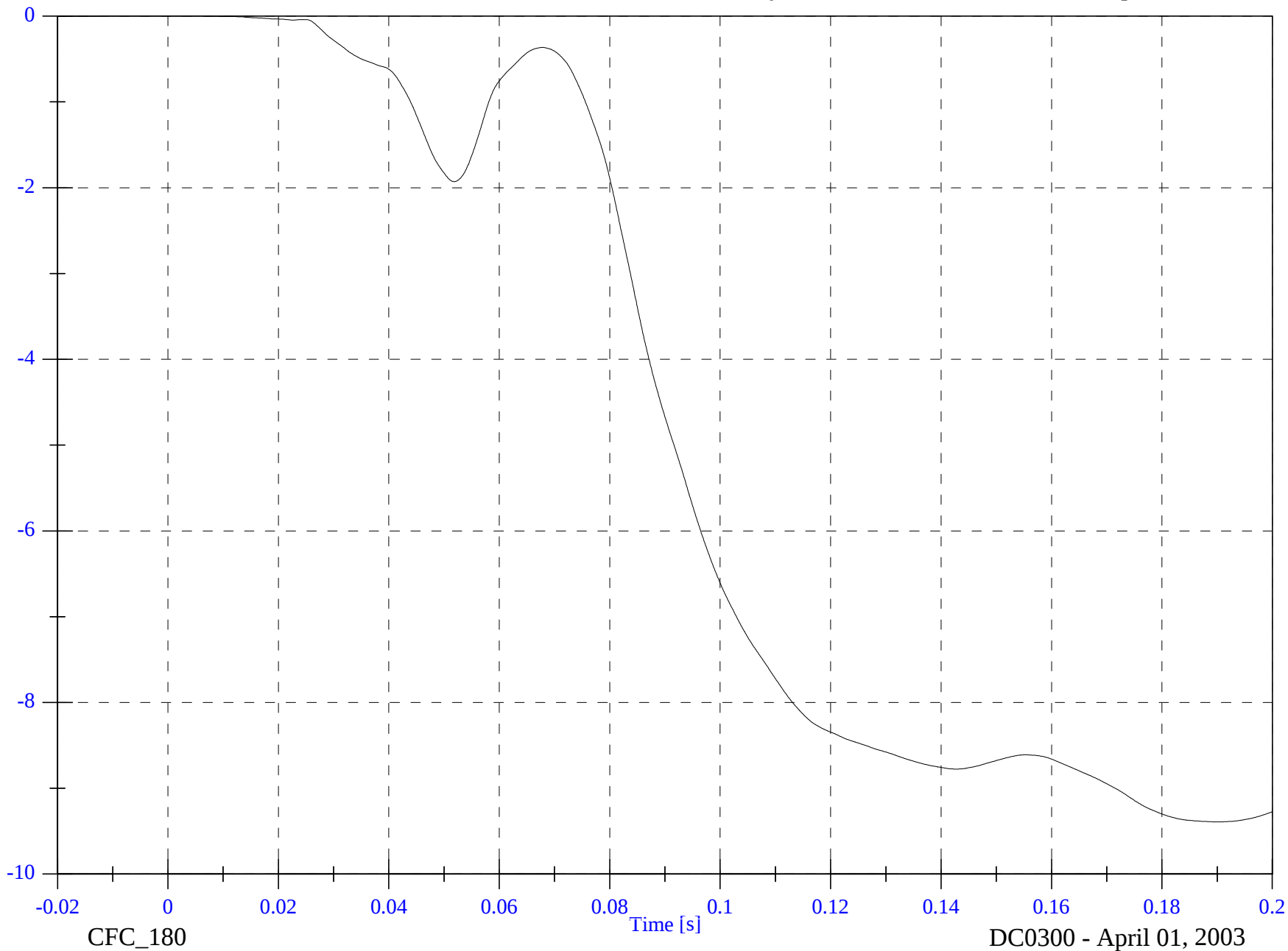


2004 Chrysler Pacifica Optional SNCAP

V2P4 Head x Velocity

Max: 0.0 [kph] at 0.004 [s]

Min: -9.4 [kph] at 0.190 [s]



B-30

8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P4 Head y

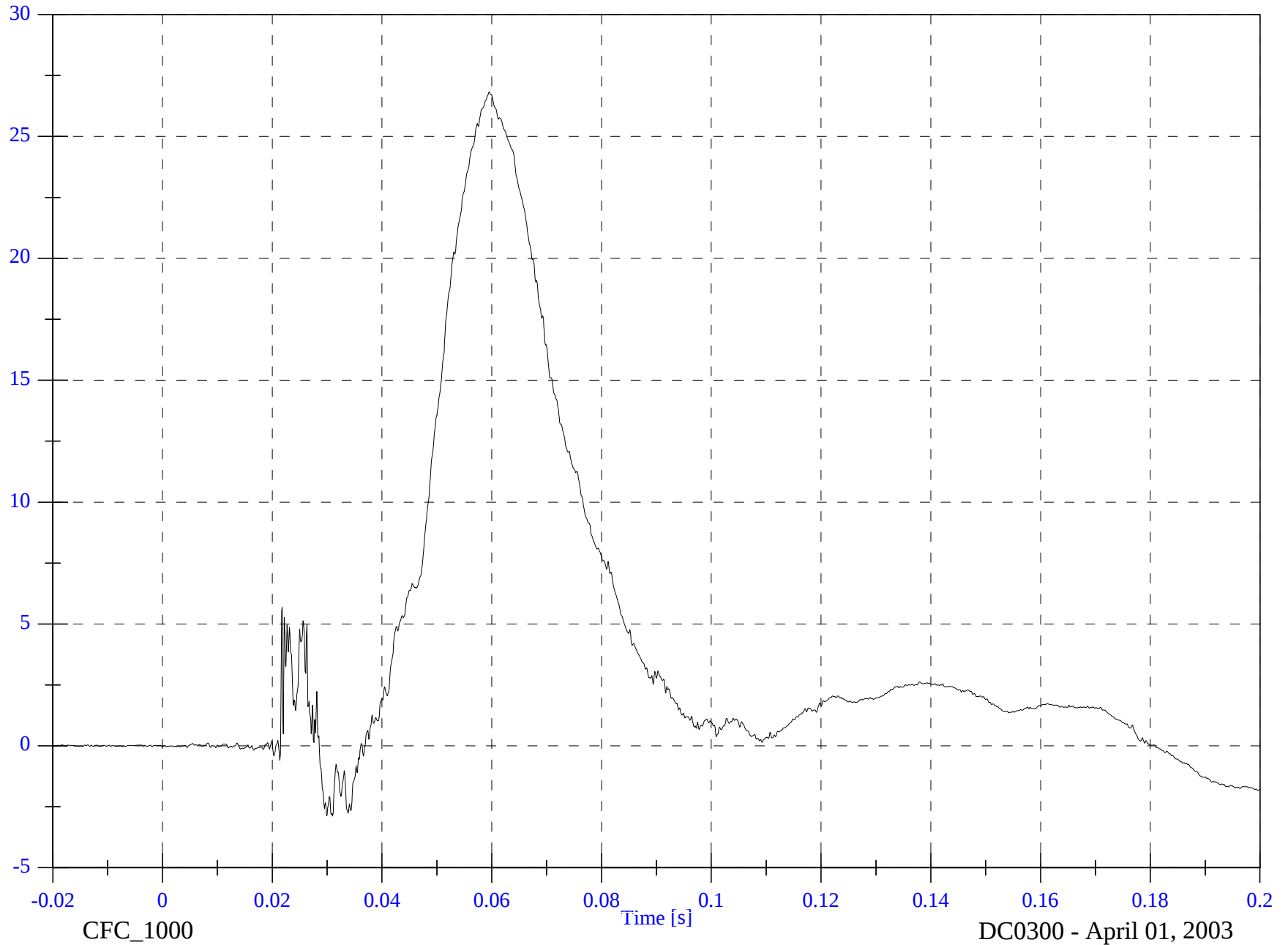
Max: 26.8 [g] at 0.059 [s]

Min: -2.9 [g] at 0.031 [s]

B-31

g

8700-01

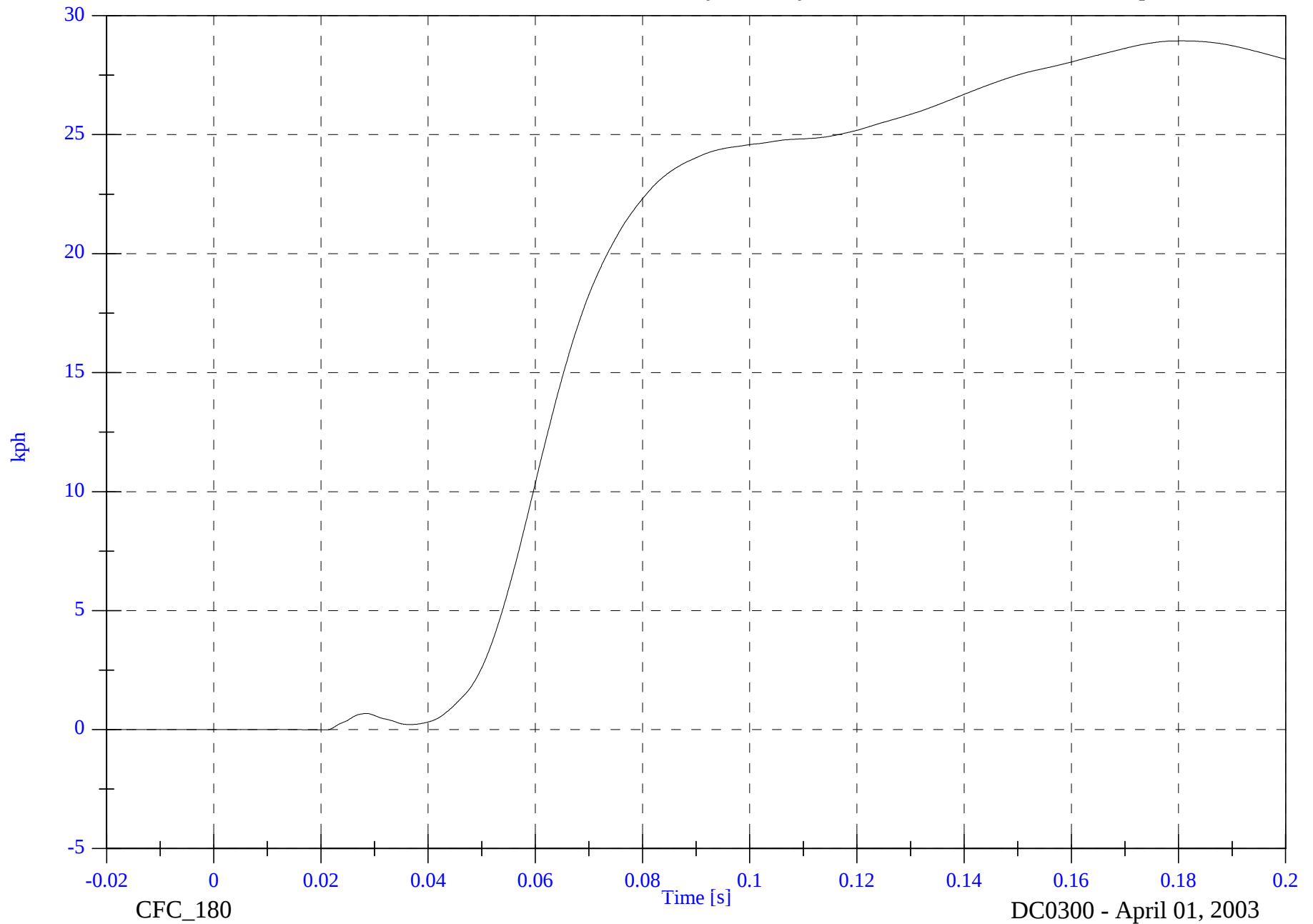


2004 Chrysler Pacifica Optional SNCAP

V2P4 Head y Velocity

Max: 28.9 [kph] at 0.181 [s]

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



B-32

8700-01

CFC_180

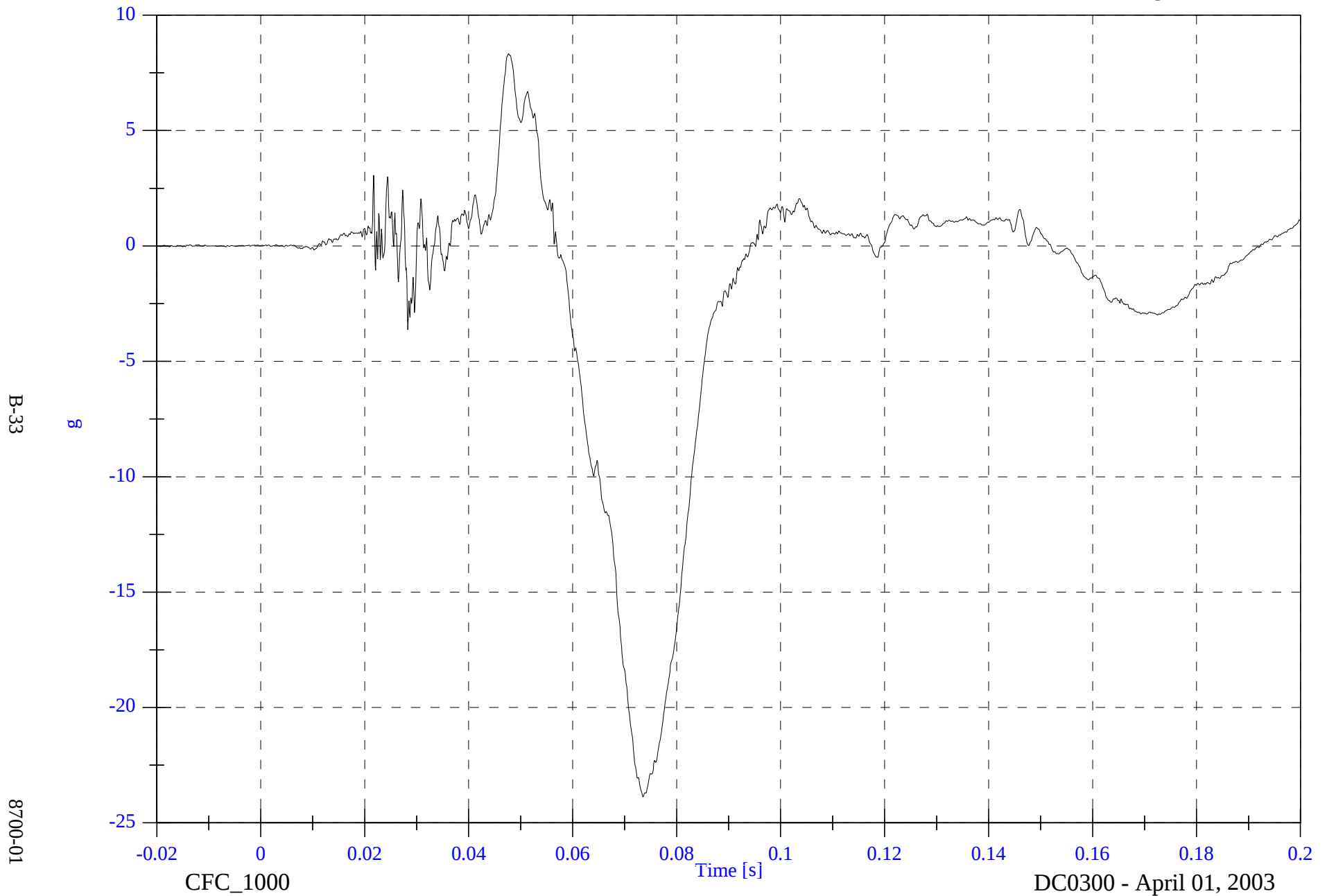
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2P4 Head z

Max: 8.3 [g] at 0.048 [s]

Min: -23.9 [g] at 0.073 [s]

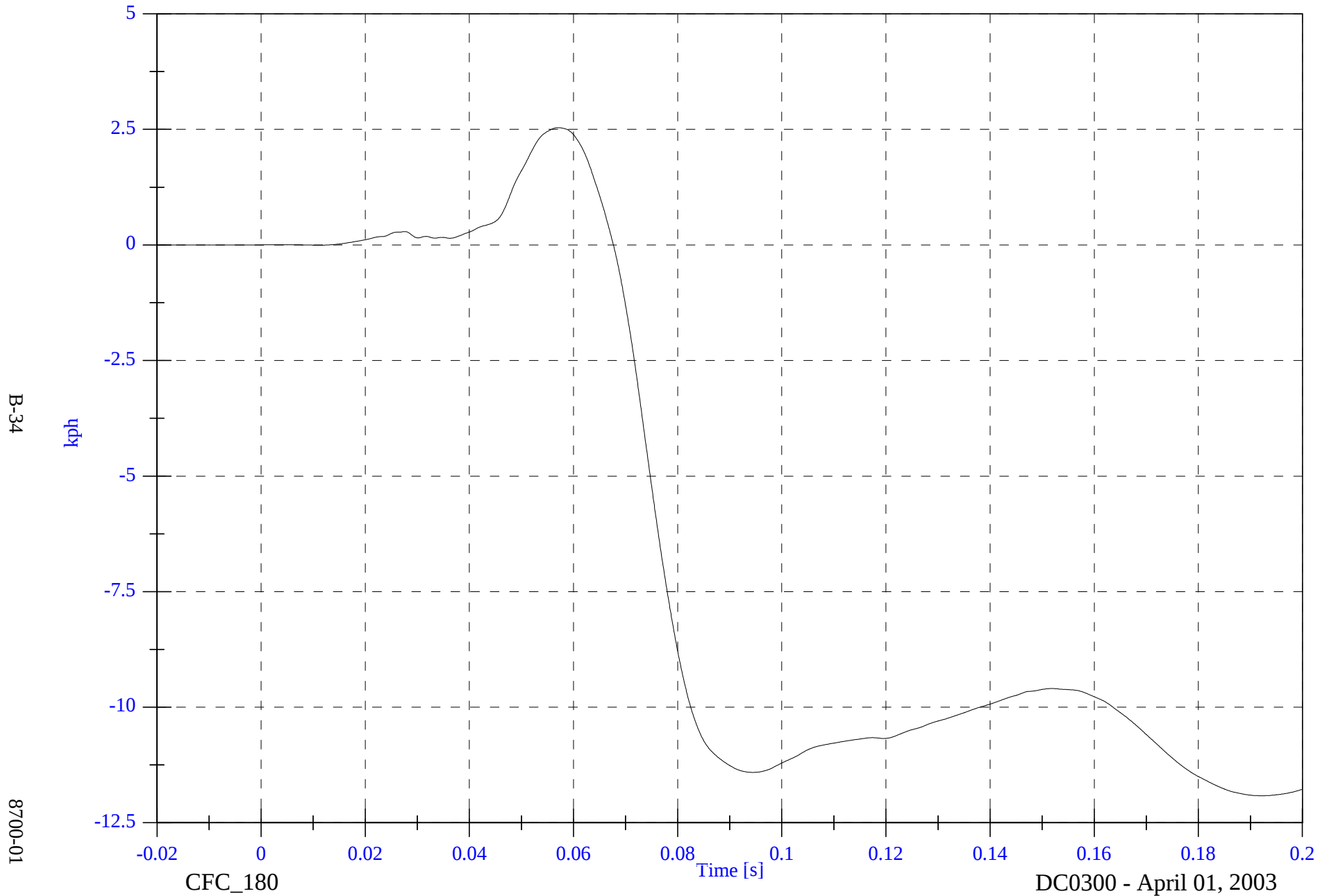


2004 Chrysler Pacifica Optional SNCAP

V2P4 Head z Velocity

Max: 2.5 [kph] at 0.057 [s]

Min: -11.9 [kph] at 0.192 [s]



2004 Chrysler Pacifica Optional SNCAP

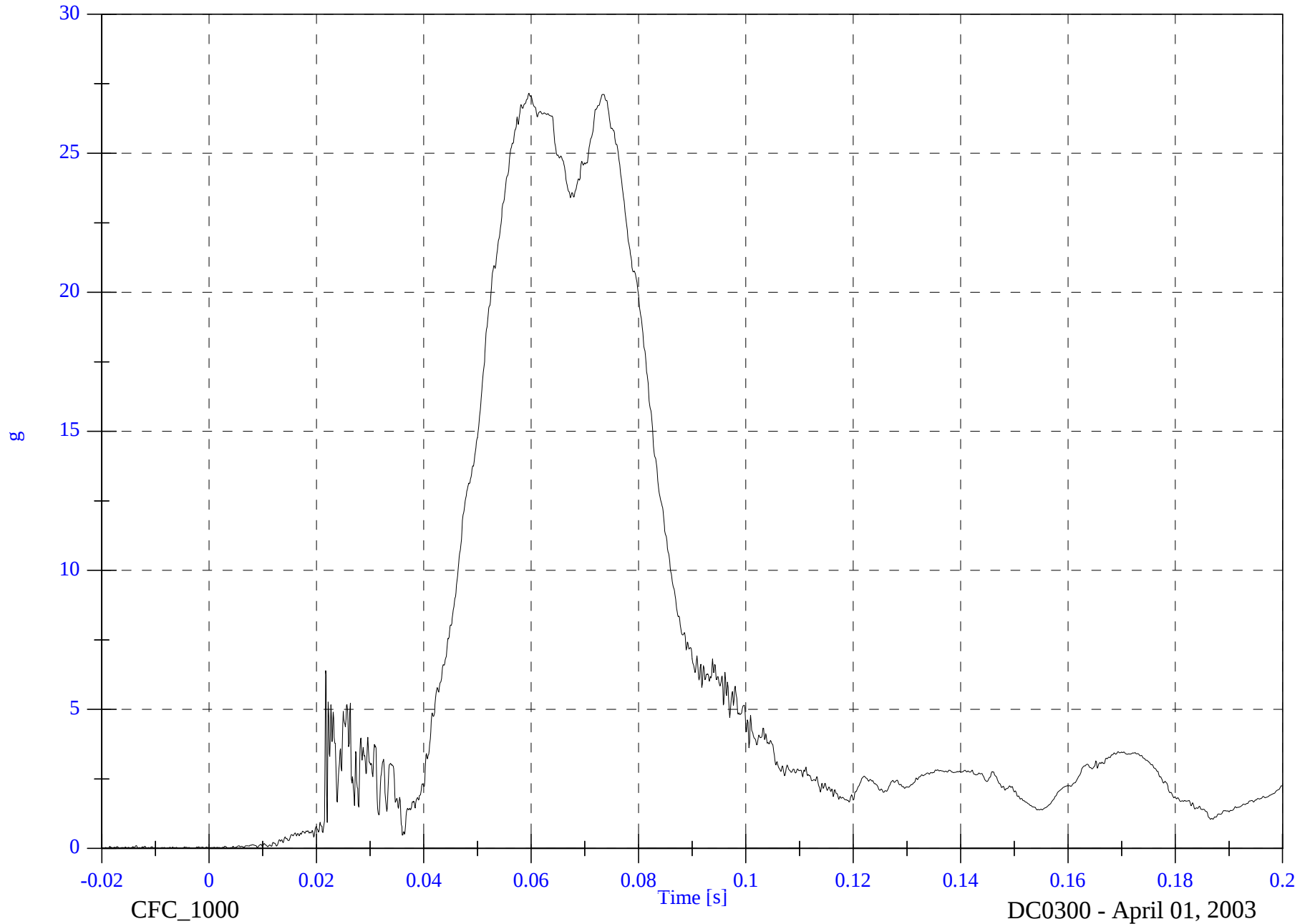
V2P4 Head Resultant

Max: 27.2 [g] at 0.060 [s]

Min: 0.0 [g] at -0.008 [s]

B-35

8700-01



2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Neck Fx

Max: 293.1 [N] at 0.073 [s]

Min: -52.8 [N] at 0.174 [s]

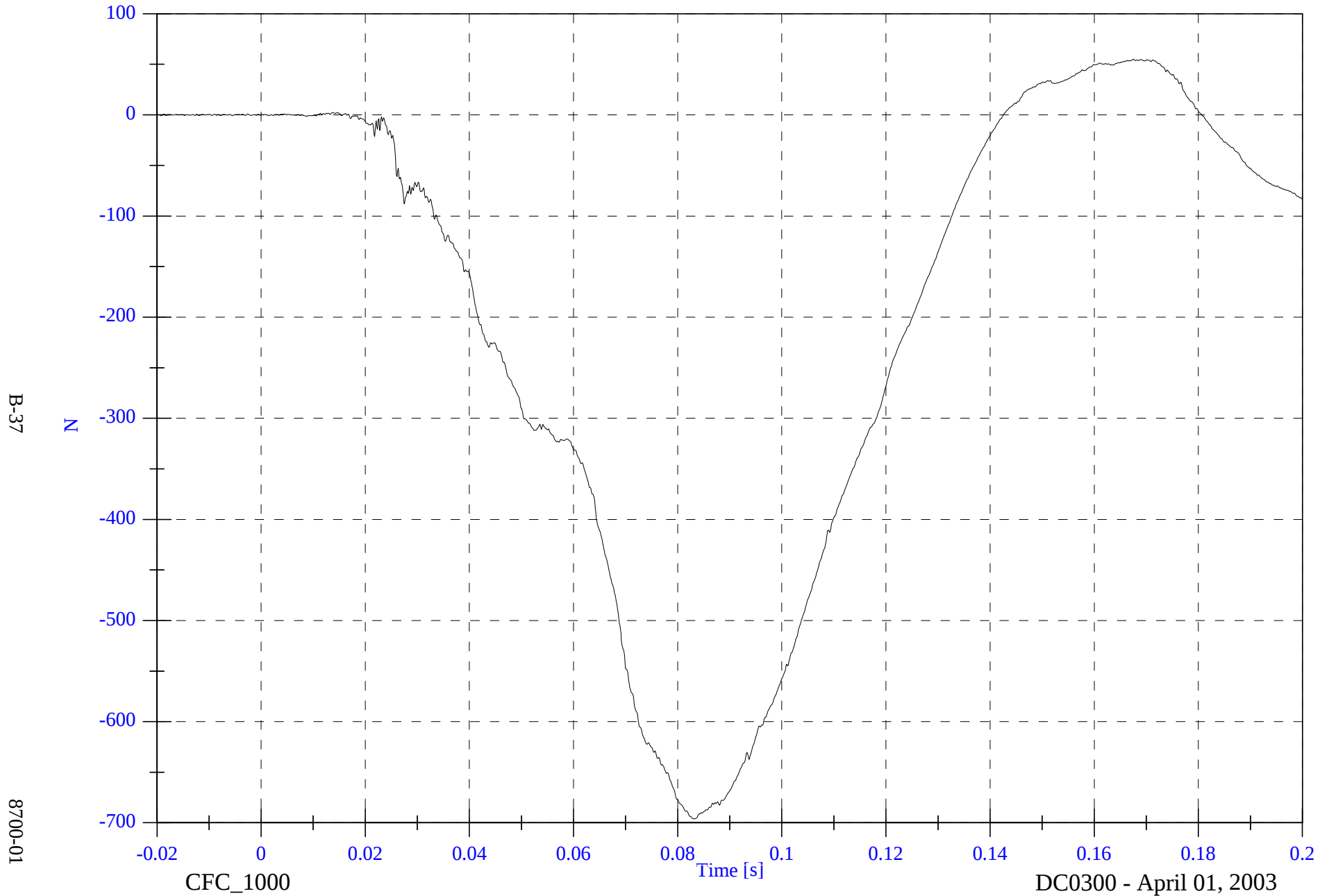


2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Neck Fy

Max: 55.3 [N] at 0.167 [s]

Min: -696.1 [N] at 0.083 [s]

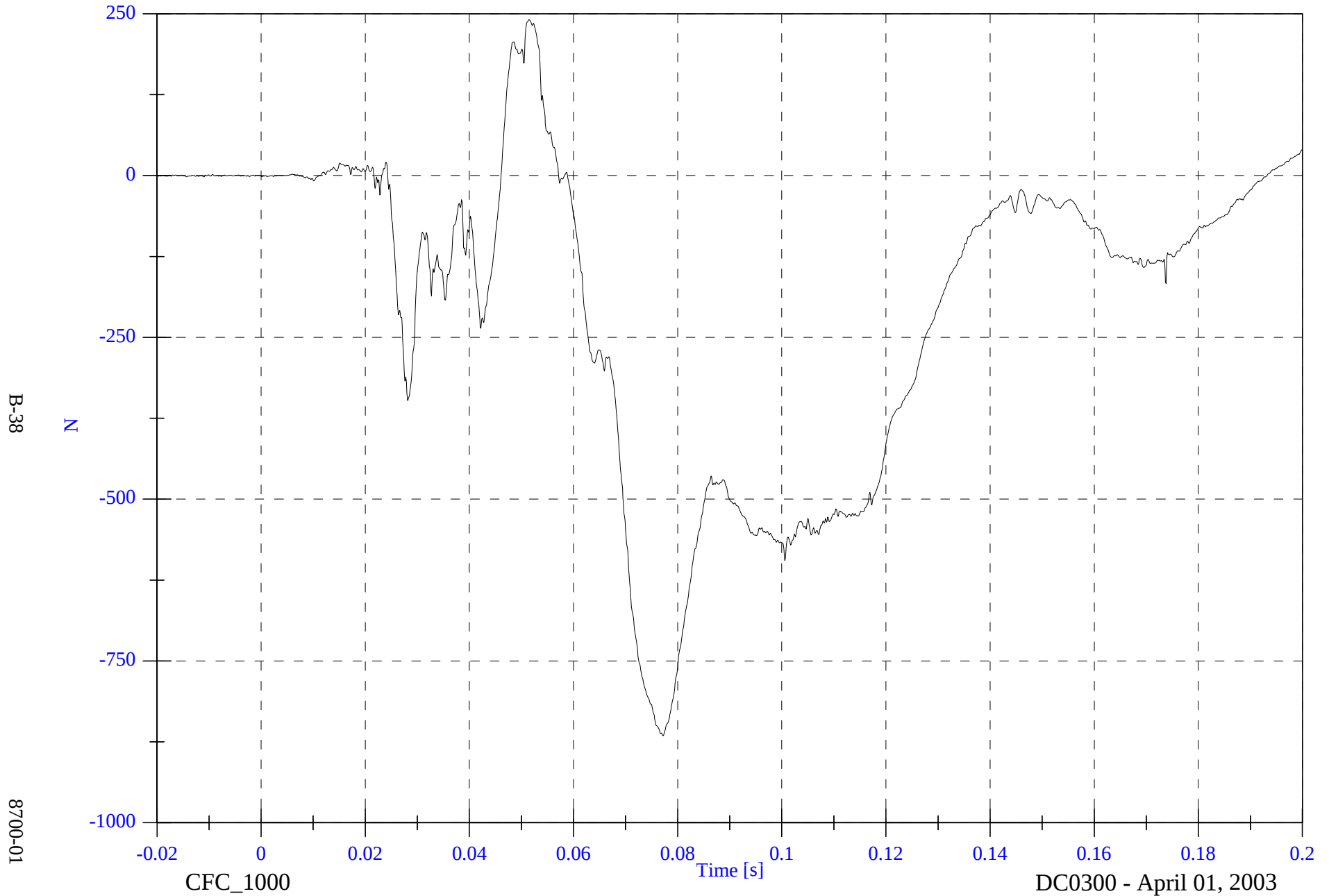


2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Neck Fz

Max: 240.8 [N] at 0.051 [s]

Min: -865.8 [N] at 0.077 [s]

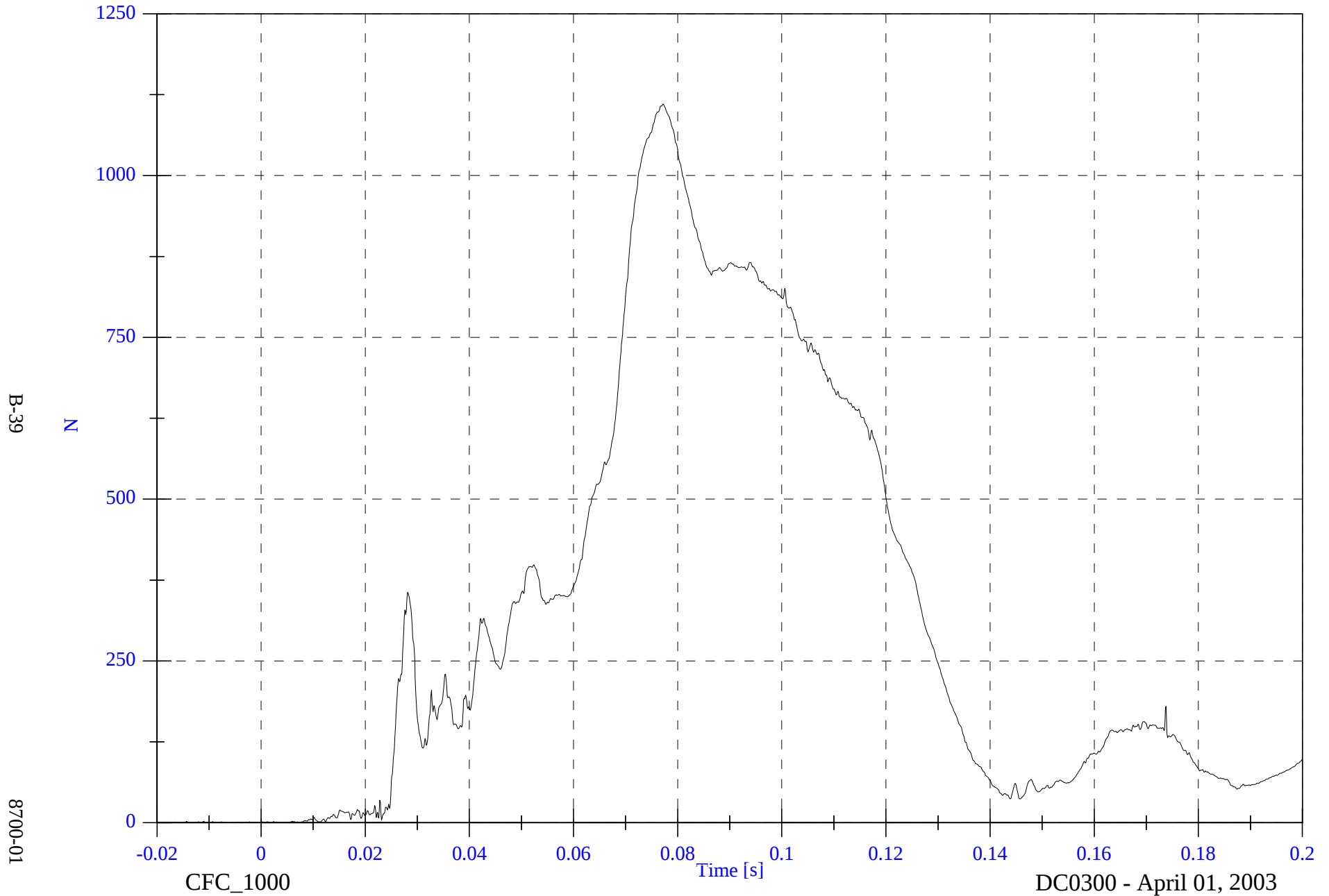


2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Neck F Resultant

Max: 1110.6 [N] at 0.077 [s]

Min: 0.1 [N] at 0.002 [s]

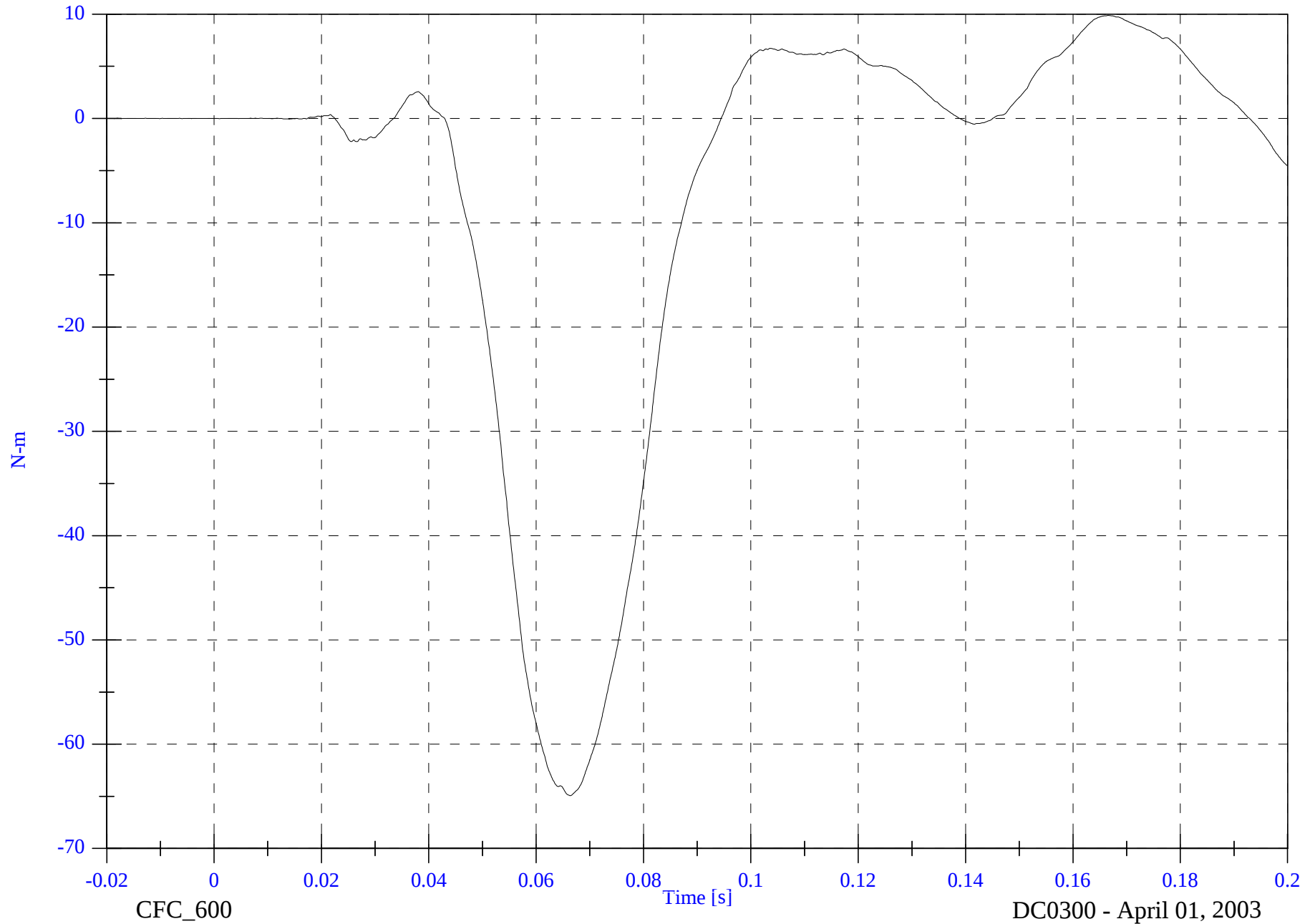


2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Neck Mx

Max: 9.9 [N-m] at 0.167 [s]

Min: -64.9 [N-m] at 0.066 [s]



B-40

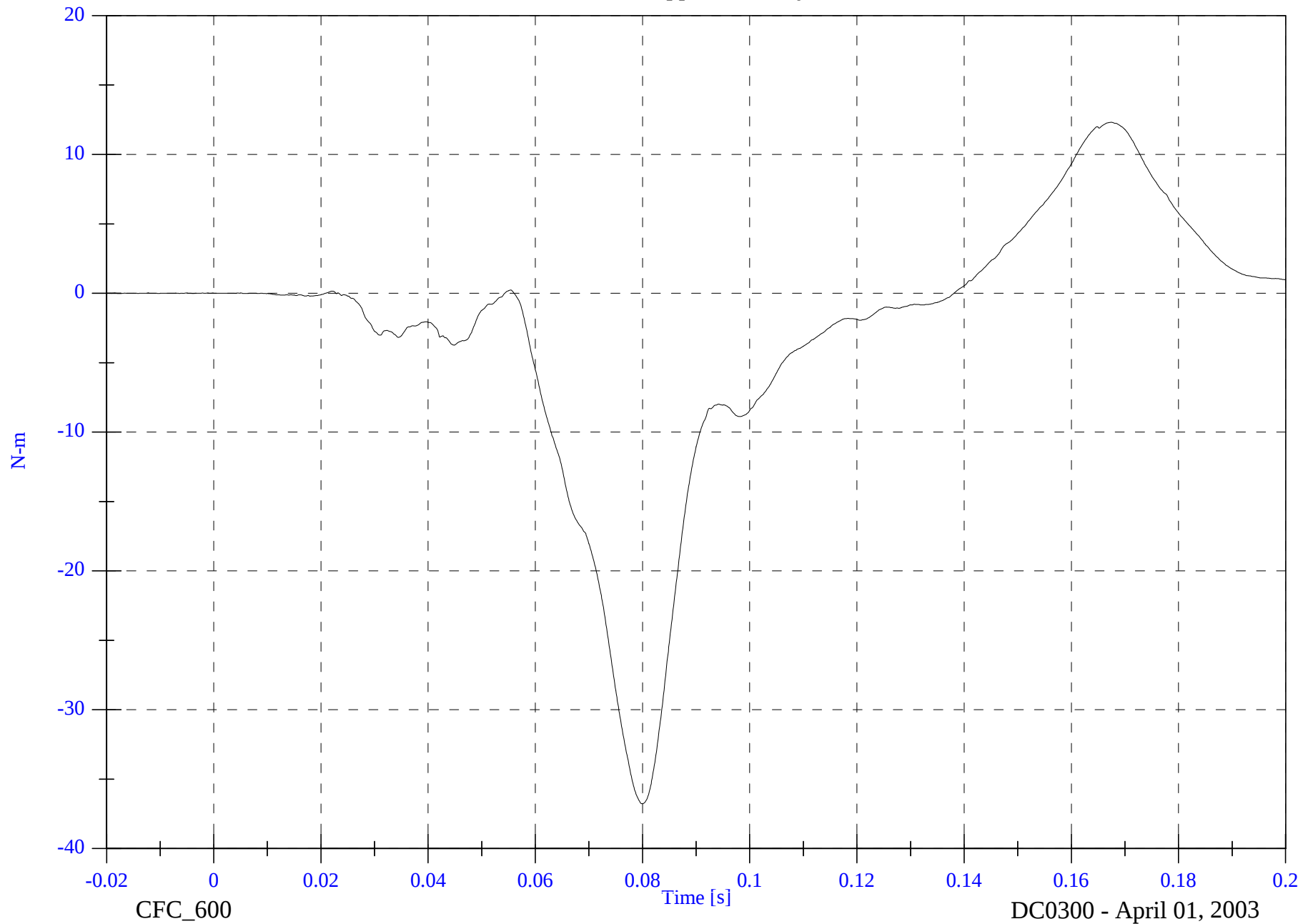
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Neck My

Max: 12.3 [N-m] at 0.167 [s]

Min: -36.8 [N-m] at 0.080 [s]

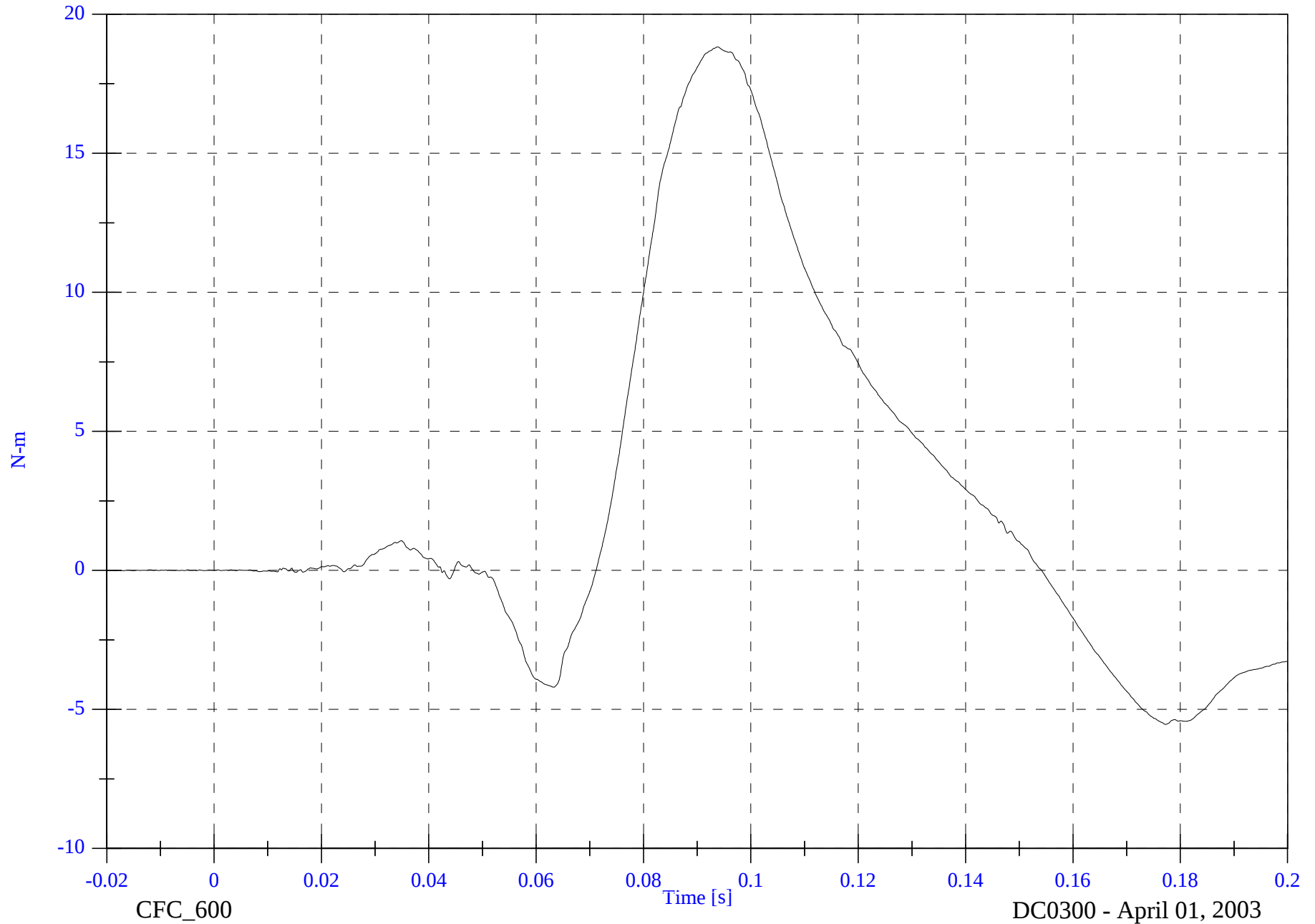


2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Neck Mz

Max: 18.8 [N-m] at 0.094 [s]

Min: -5.5 [N-m] at 0.177 [s]



B-42

8700-01

CFC_600

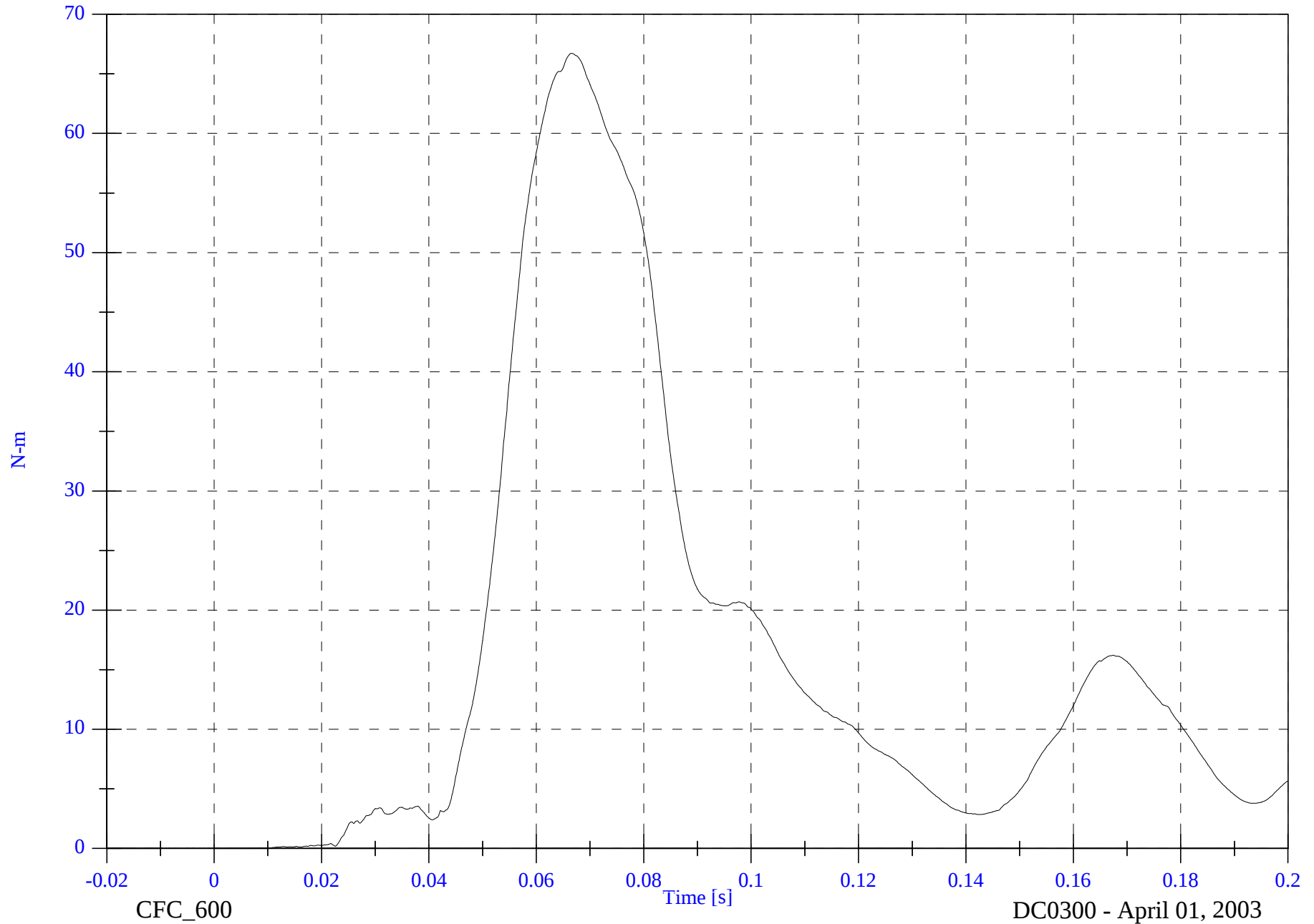
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Neck M Resultant

Max: 66.7 [N-m] at 0.067 [s]

Min: 0.0 [N-m] at 0.002 [s]



B-43

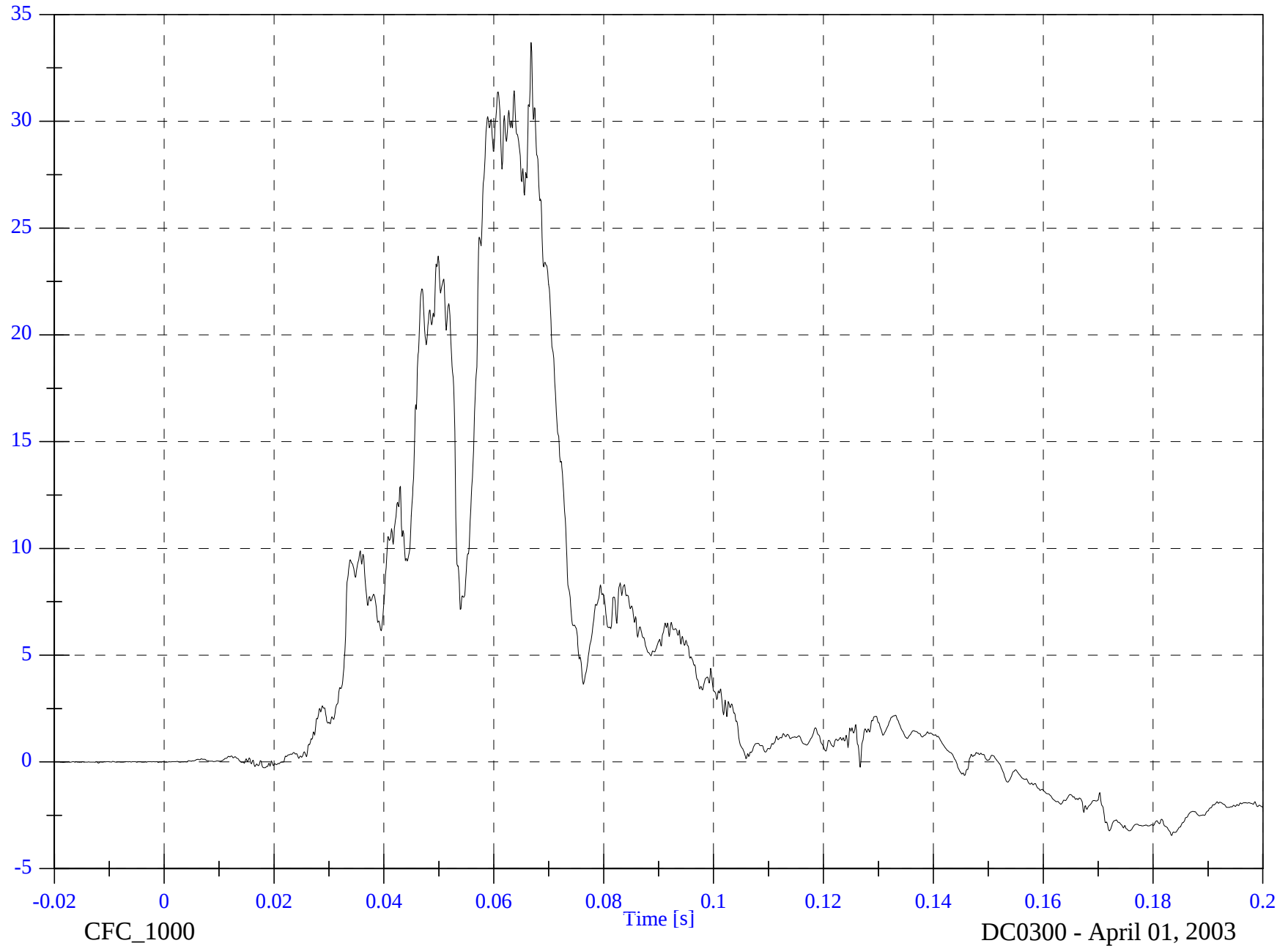
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Rib y

Max: 33.7 [g] at 0.067 [s]

Min: -3.4 [g] at 0.183 [s]



B-44

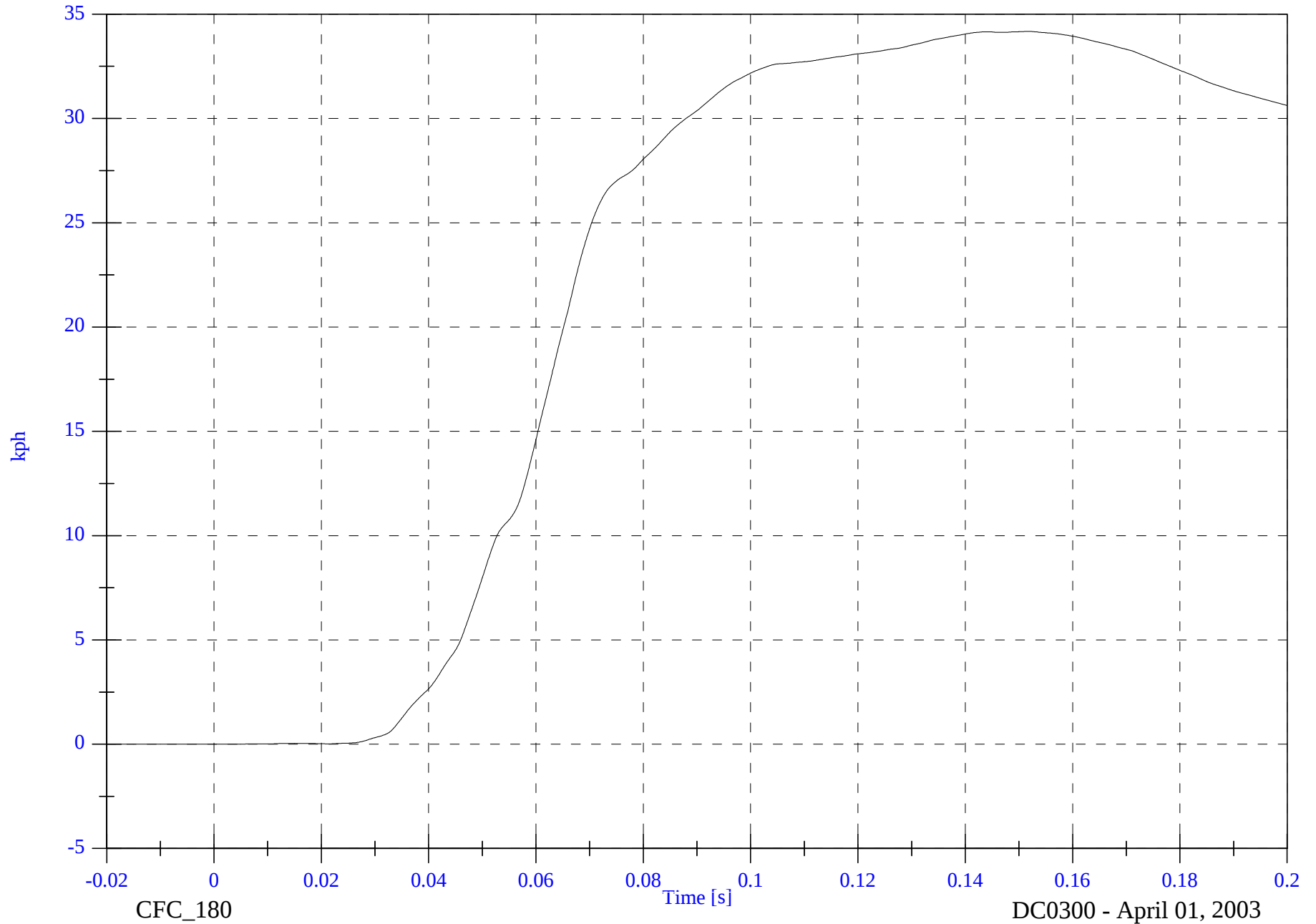
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Rib y Velocity

Max: 34.2 [kph] at 0.152 [s]

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



B-45

8700-01

2004 Chrysler Pacifica Optional SNCAP

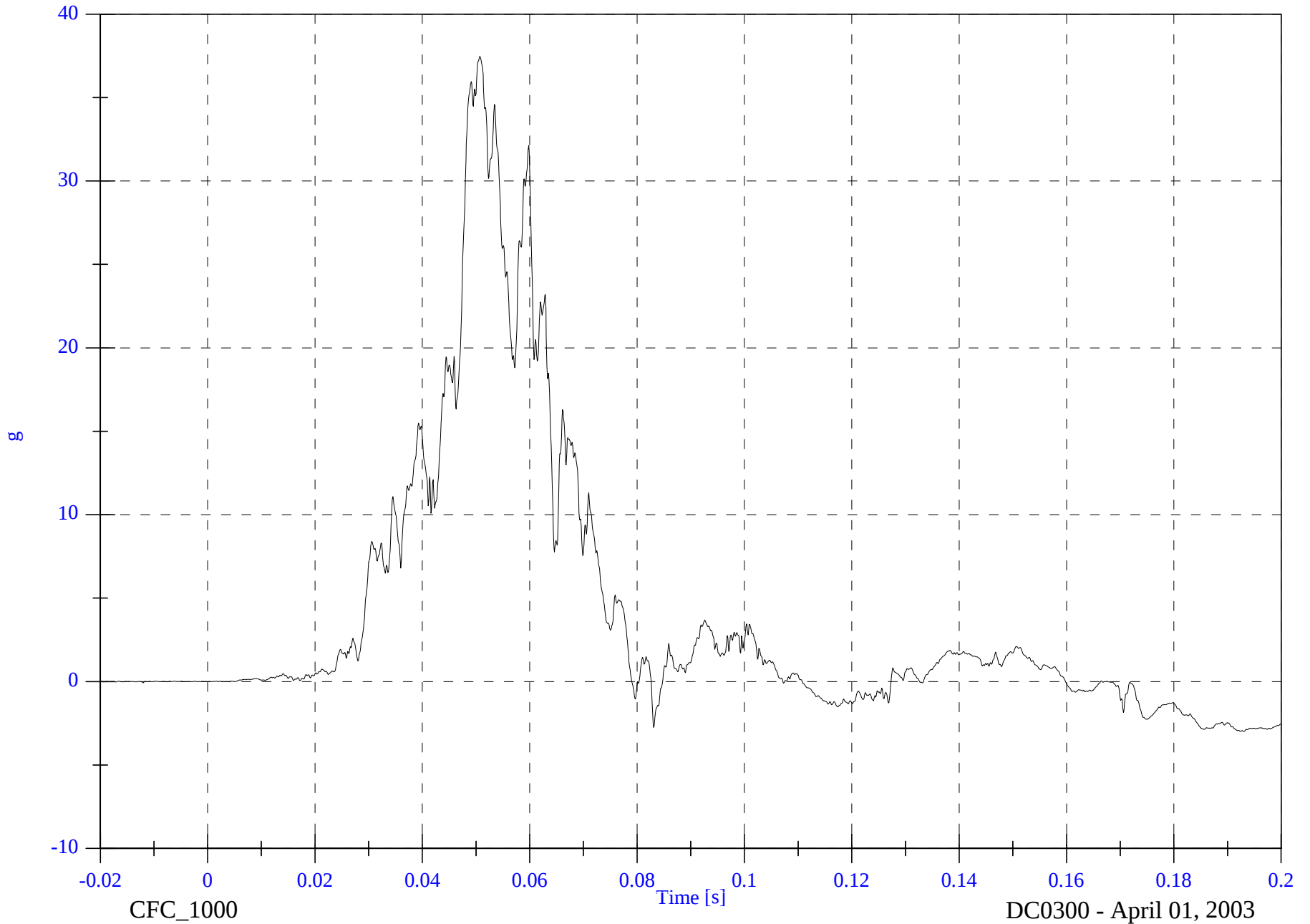
V2P4 Lower Rib y

Max: 37.5 [g] at 0.051 [s]

Min: -3.0 [g] at 0.193 [s]

B-46

8700-01

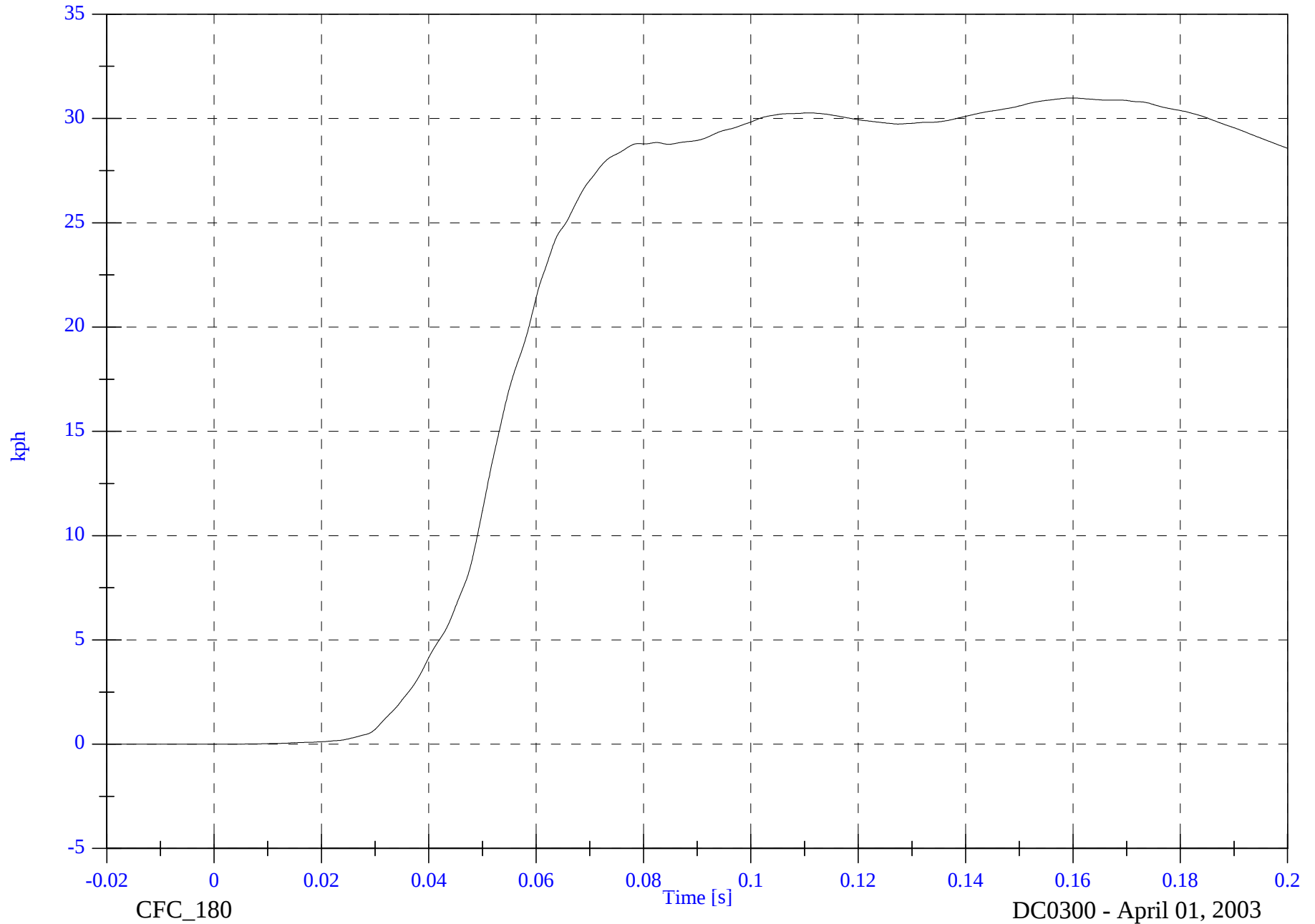


2004 Chrysler Pacifica Optional SNCAP

V2P4 Lower Rib y Velocity

Max: 31.0 [kph] at 0.160 [s]

Min: -0.0 [kph] at -0.020 [s]



B-47

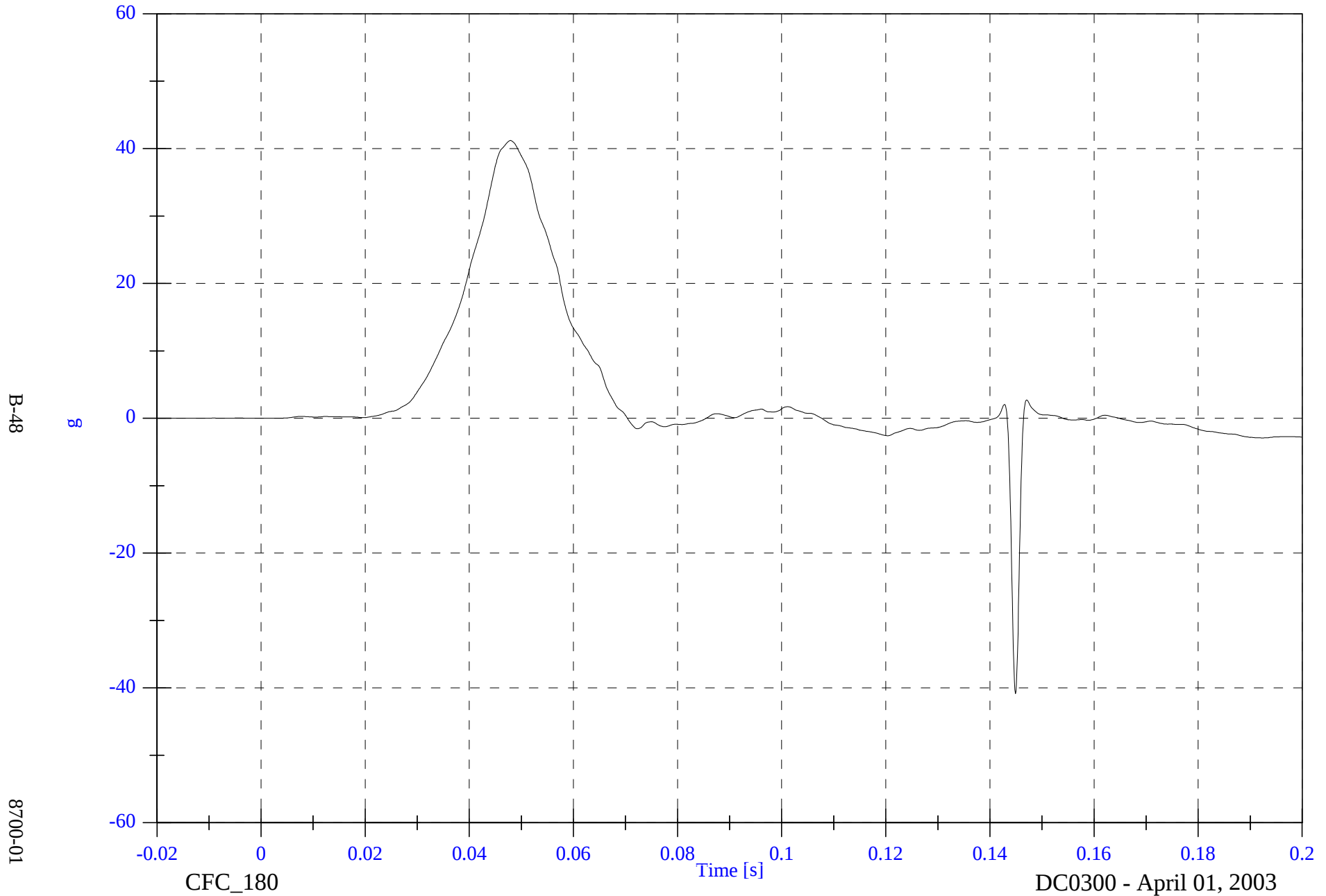
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P4 Lower Spine y

Max: 41.2 [g] at 0.048 [s]

Min: -40.8 [g] at 0.145 [s]

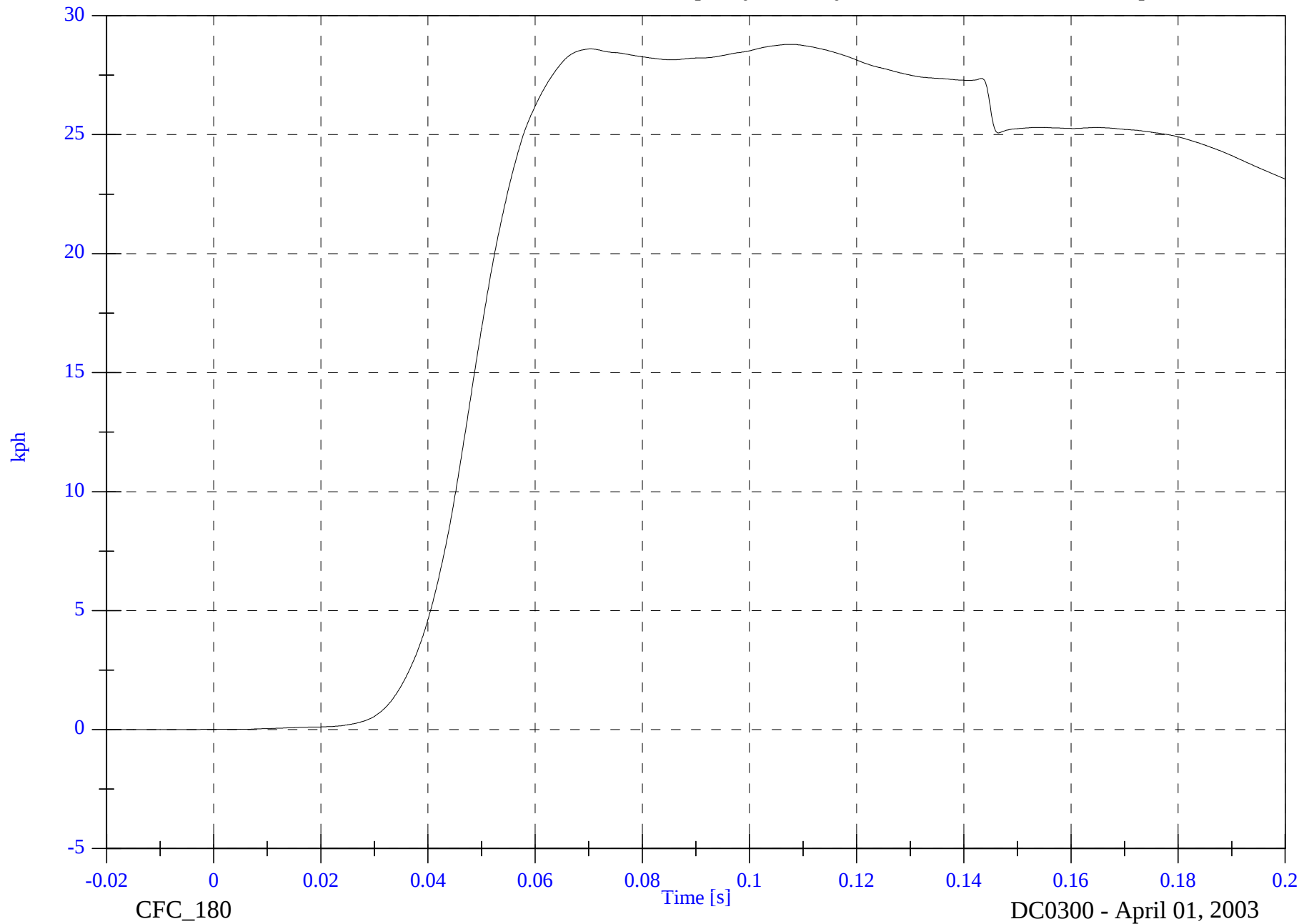


2004 Chrysler Pacifica Optional SNCAP

V2P4 Lower Spine y Velocity

Max: 28.8 [kph] at 0.108 [s]

Min: -0.0 [kph] at -0.020 [s]



B-49

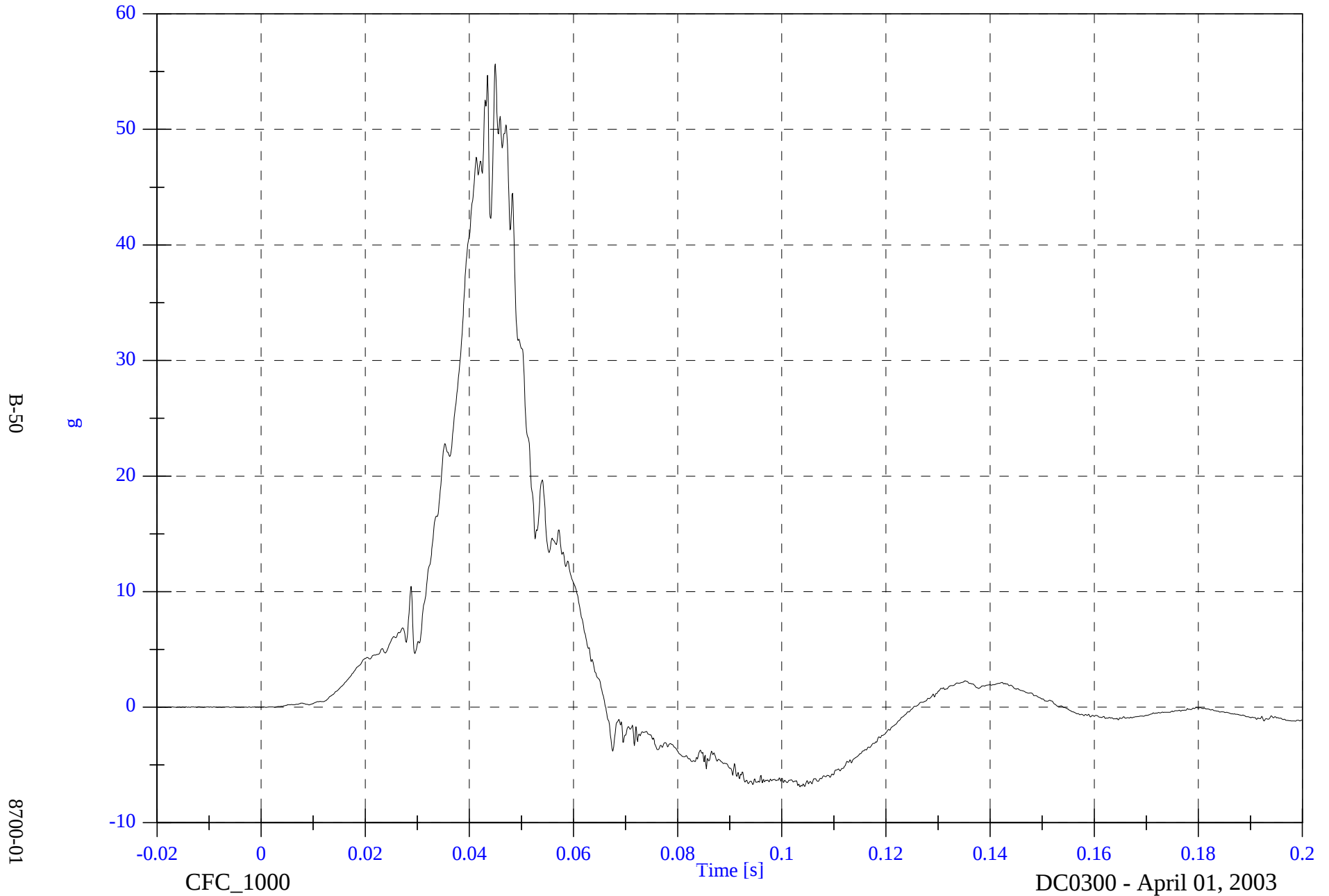
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P4 Pelvic y

Max: 55.7 [g] at 0.045 [s]

Min: -6.9 [g] at 0.104 [s]

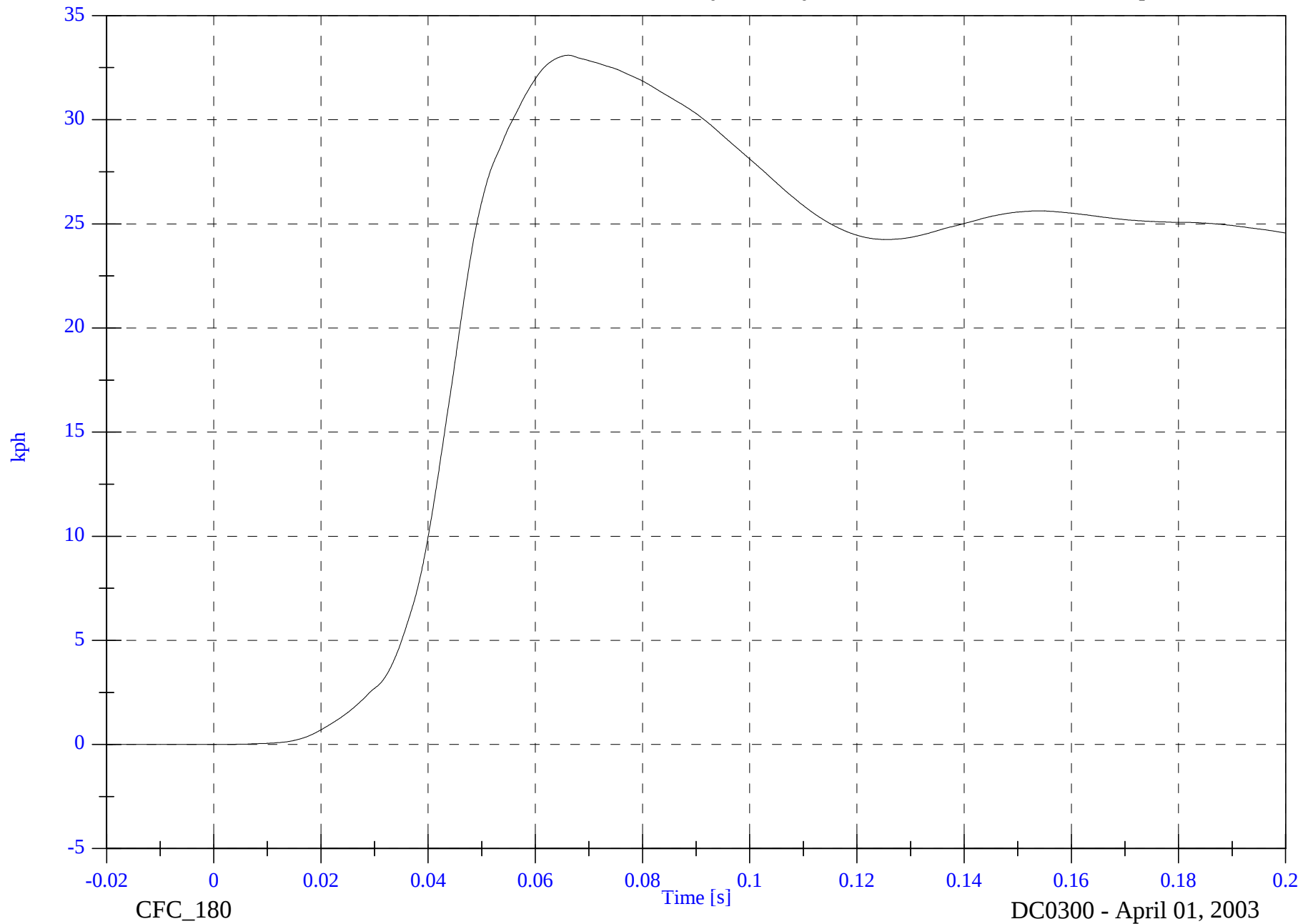


2004 Chrysler Pacifica Optional SNCAP

V2P4 Pelvic y Velocity

Max: 33.1 [kph] at 0.066 [s]

Min: -0.0 [kph] at -0.020 [s]



B-51

8700-01

CFC_180

DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

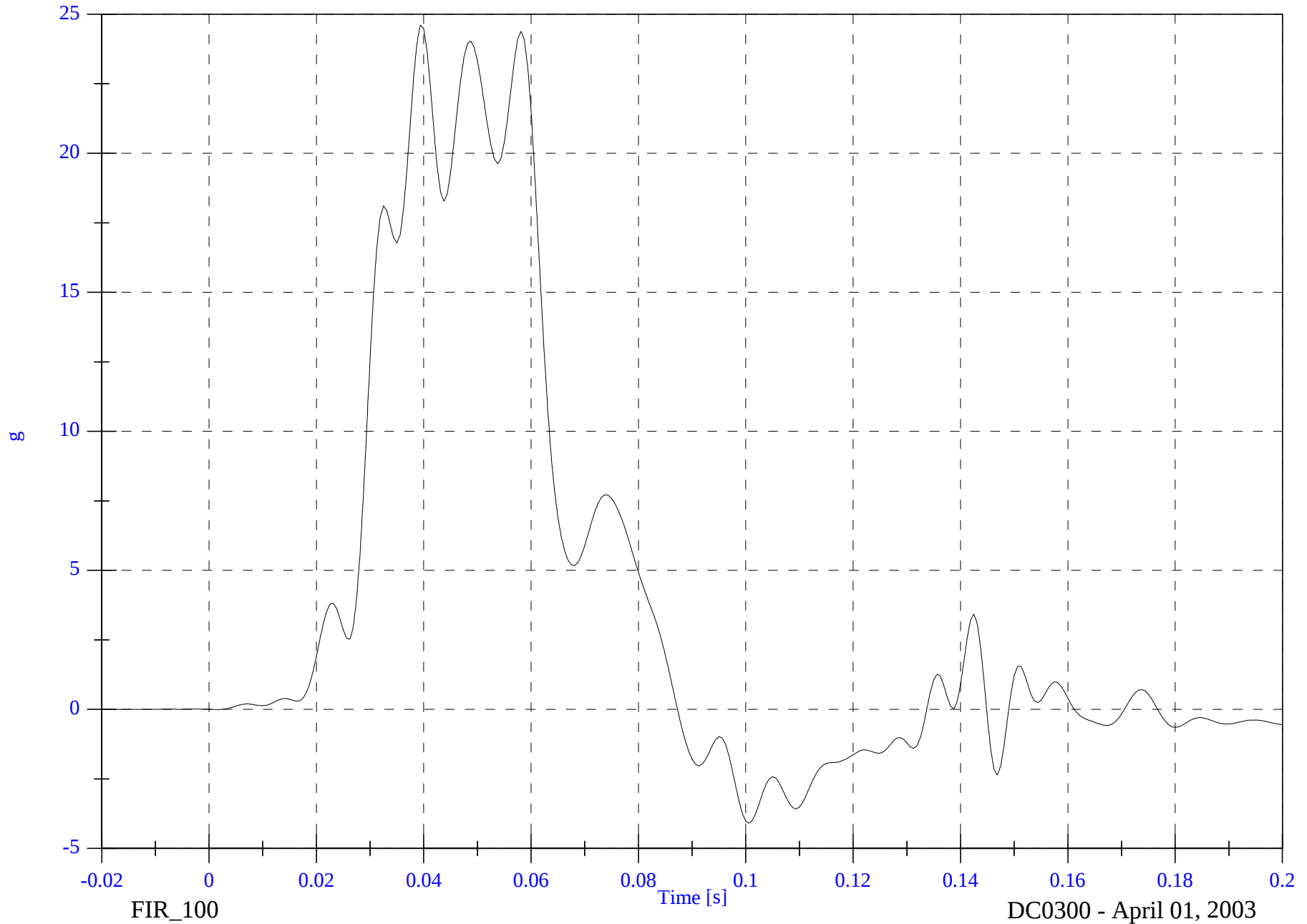
V2P1 Upper Rib y

Max: 24.6 [g] at 0.039 [s]

Min: -4.1 [g] at 0.101 [s]

B-52

8700-01



2004 Chrysler Pacifica Optional SNCAP

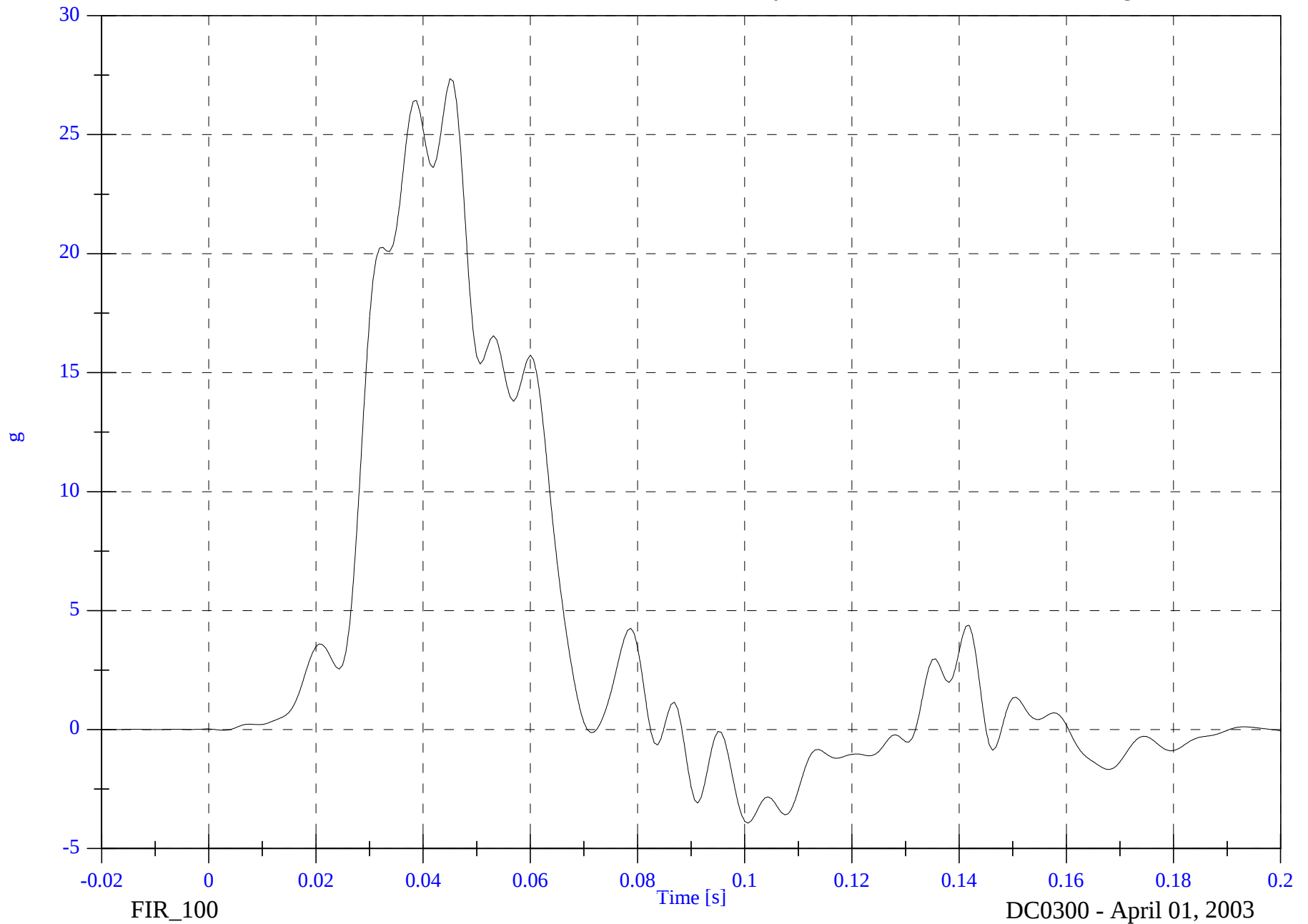
V2P1 Lower Rib y

Max: 27.3 [g] at 0.045 [s]

Min: -3.9 [g] at 0.101 [s]

B-53

8700-01

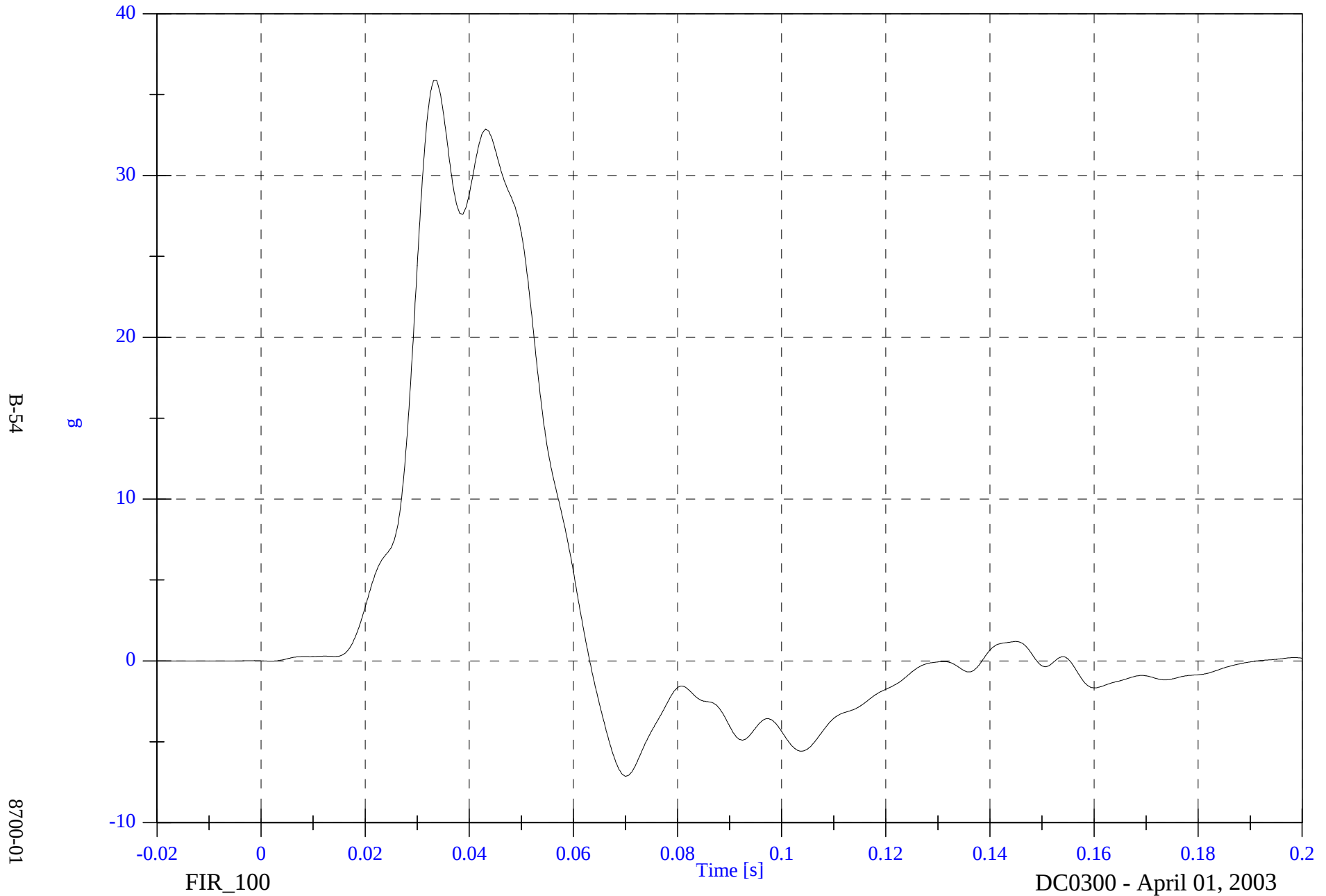


2004 Chrysler Pacifica Optional SNCAP

V2P1 Lower Spine y

Max: 35.9 [g] at 0.033 [s]

Min: -7.1 [g] at 0.070 [s]

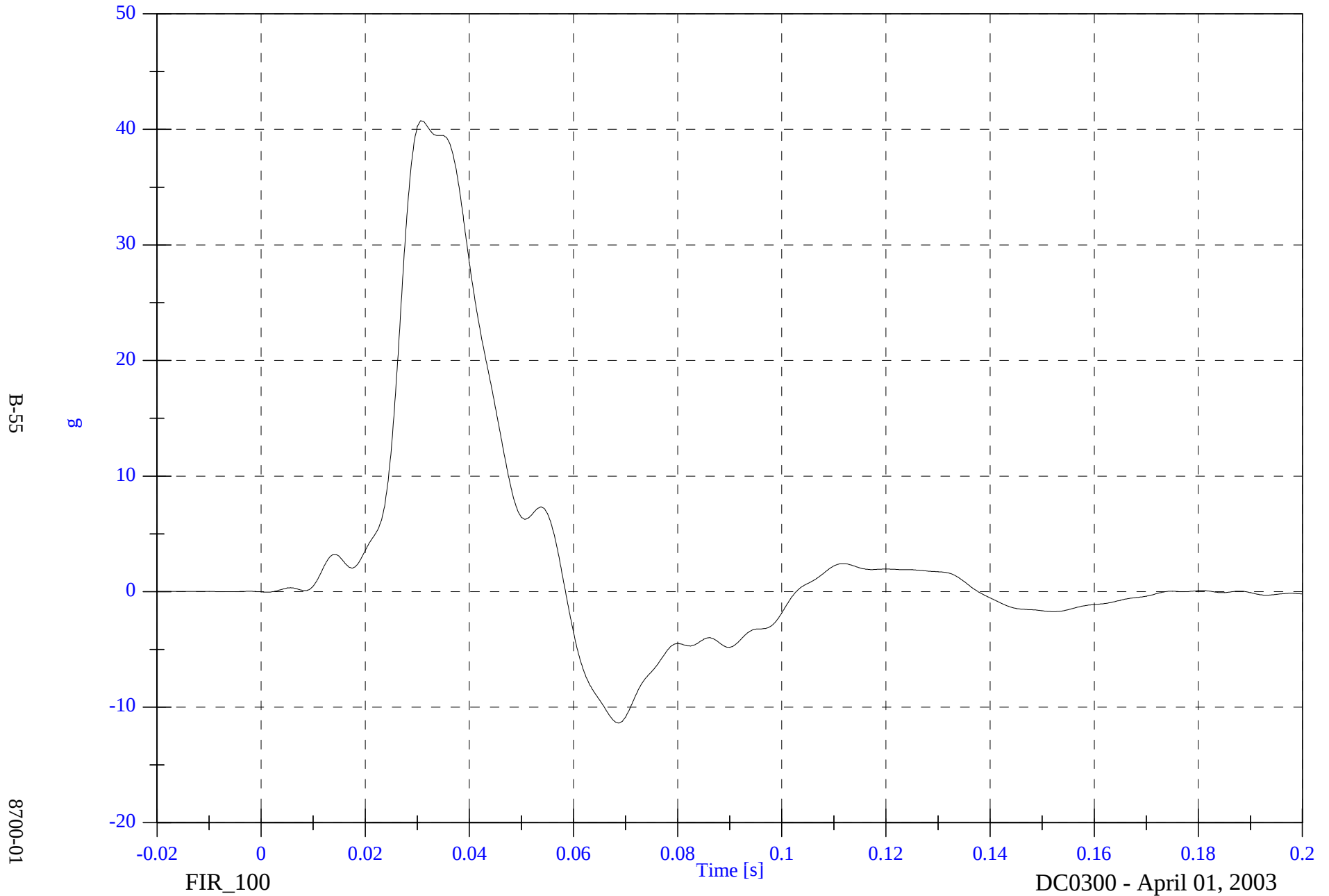


2004 Chrysler Pacifica Optional SNCAP

V2P1 Pelvic y

Max: 40.7 [g] at 0.031 [s]

Min: -11.4 [g] at 0.069 [s]



2004 Chrysler Pacifica Optional SNCAP

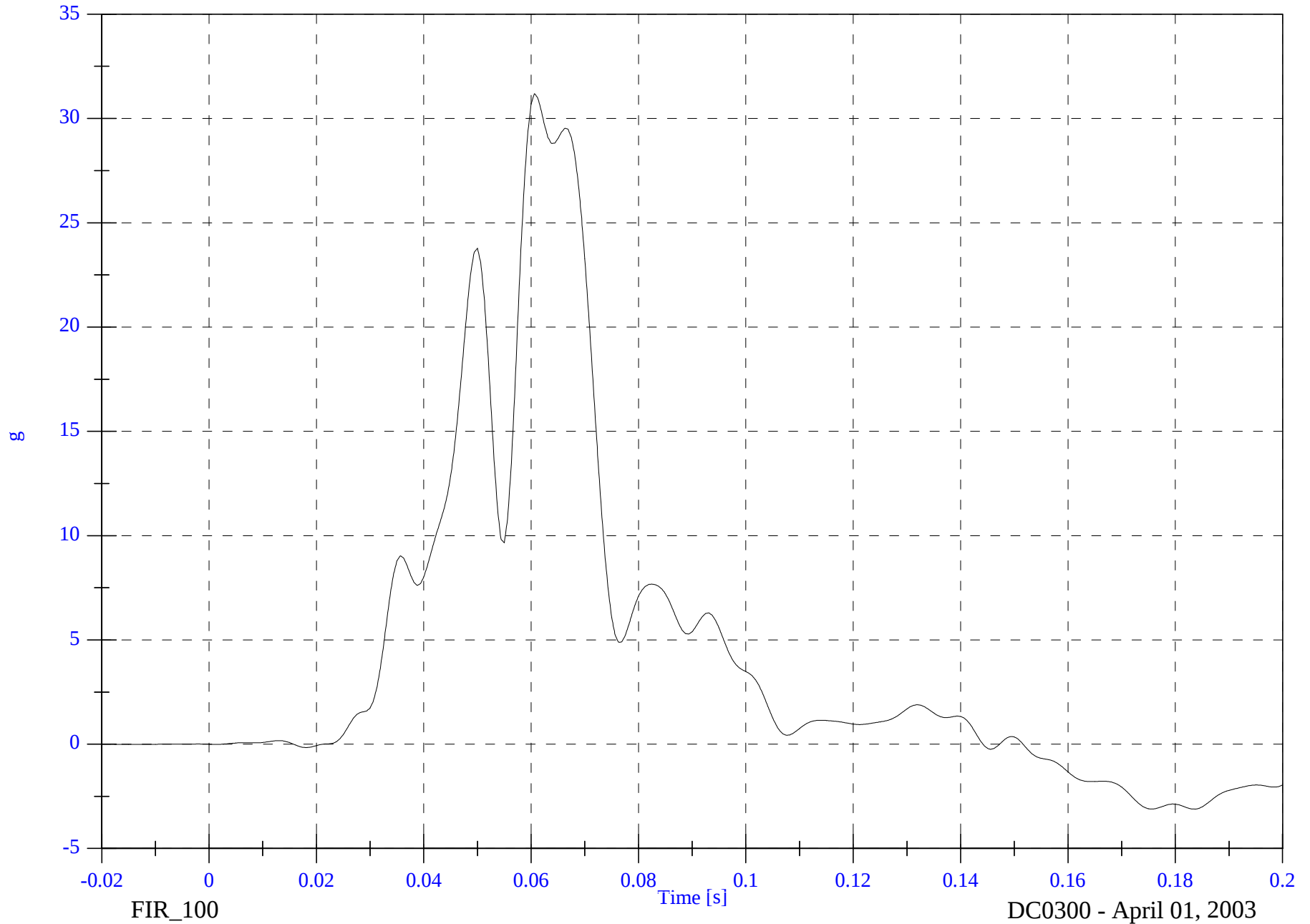
V2P4 Upper Rib y

Max: 31.2 [g] at 0.061 [s]

Min: -3.1 [g] at 0.184 [s]

B-56

8700-01



2004 Chrysler Pacifica Optional SNCAP

V2P4 Lower Rib y

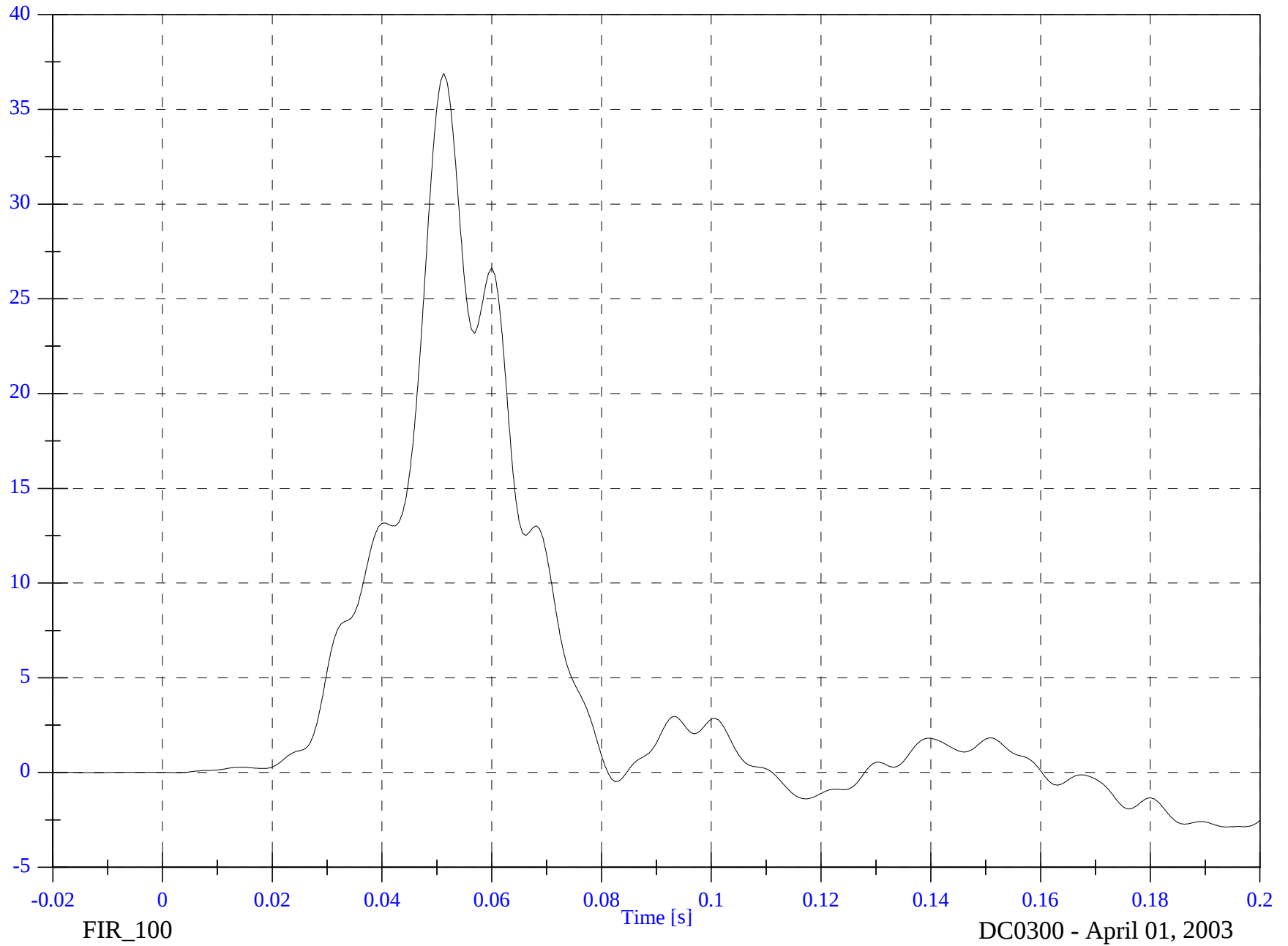
Max: 36.9 [g] at 0.051 [s]

Min: -2.9 [g] at 0.194 [s]

B-57

g

8700-01

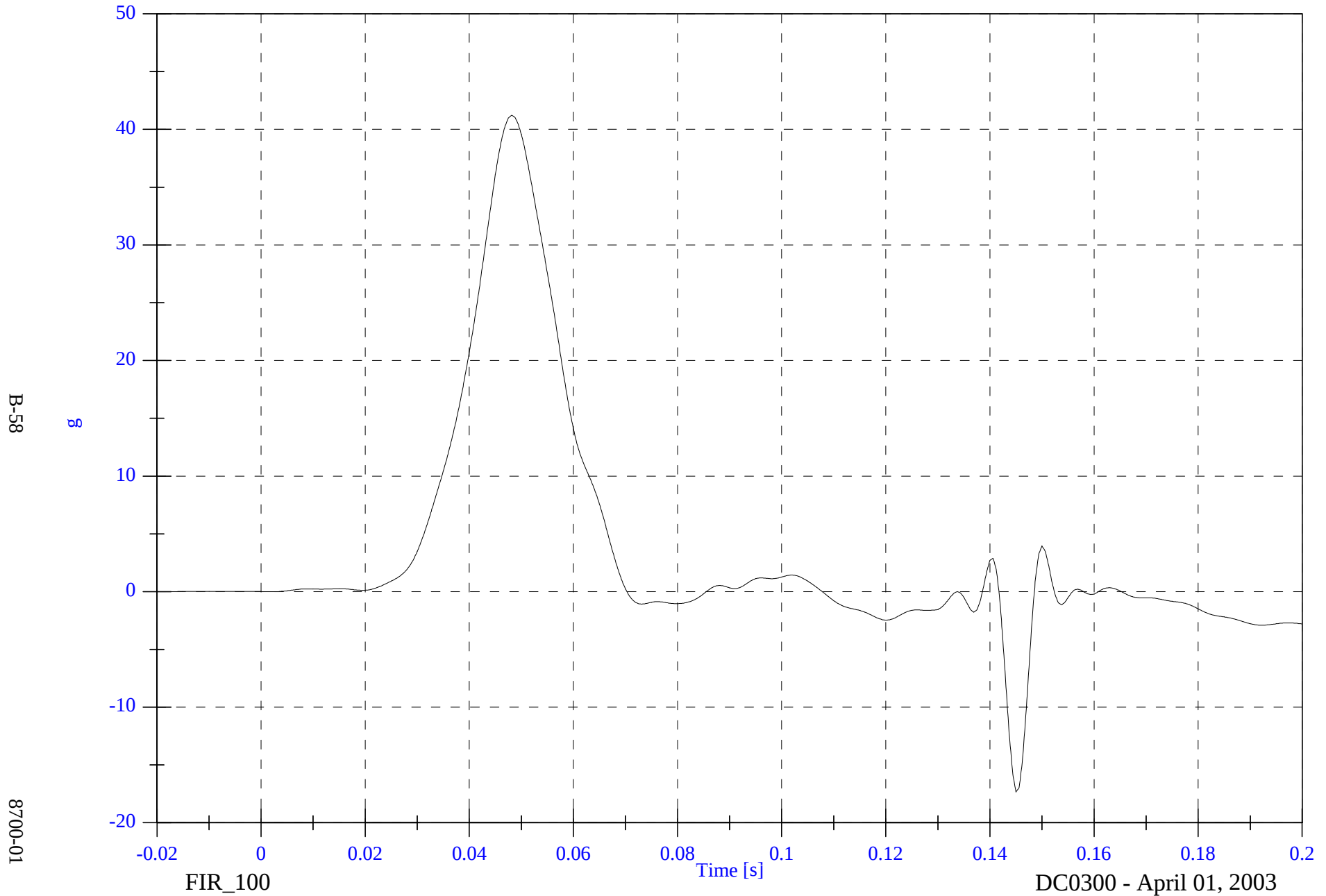


2004 Chrysler Pacifica Optional SNCAP

V2P4 Lower Spine y

Max: 41.2 [g] at 0.048 [s]

Min: -17.3 [g] at 0.145 [s]

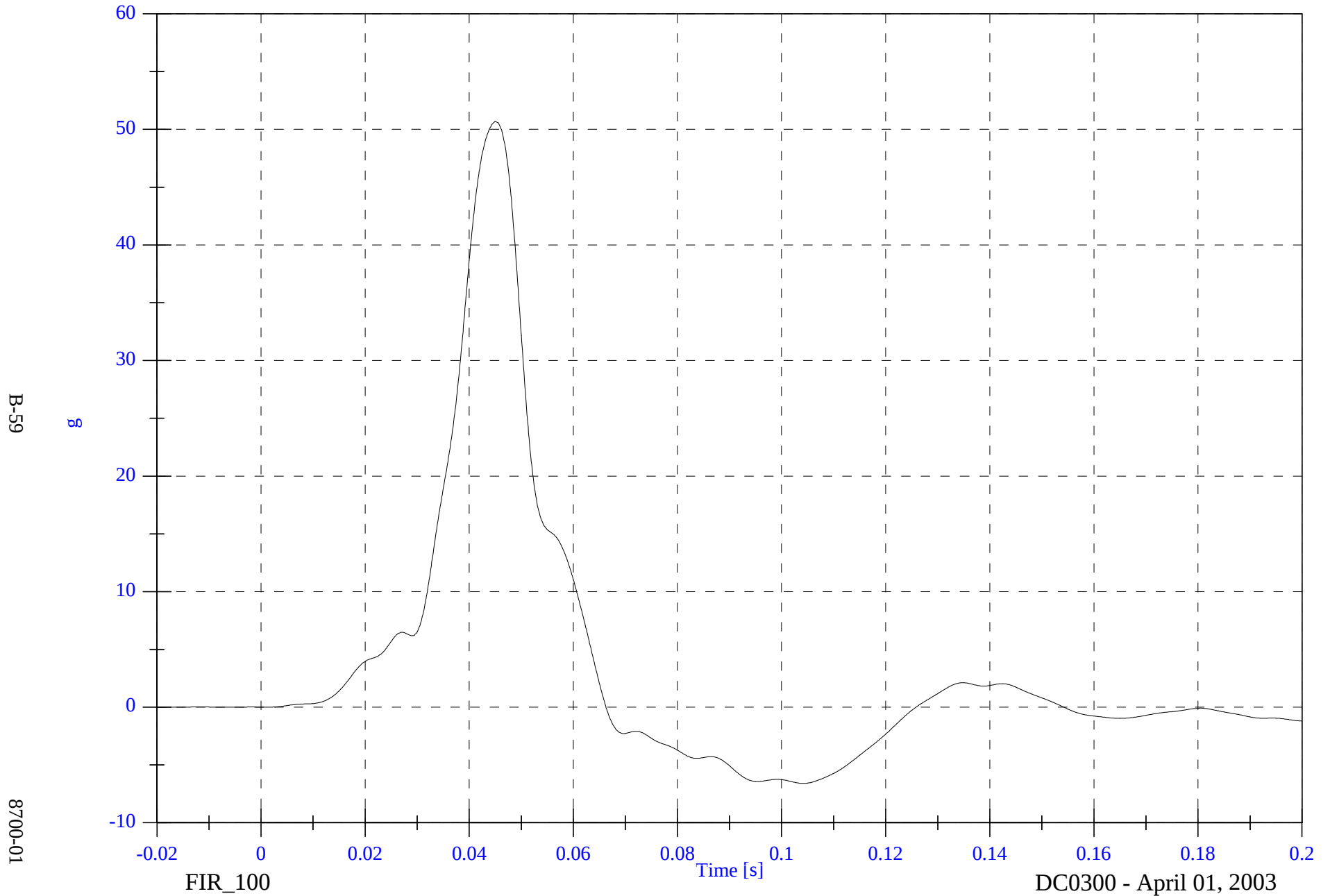


2004 Chrysler Pacifica Optional SNCAP

V2P4 Pelvic y

Max: 50.7 [g] at 0.045 [s]

Min: -6.6 [g] at 0.104 [s]

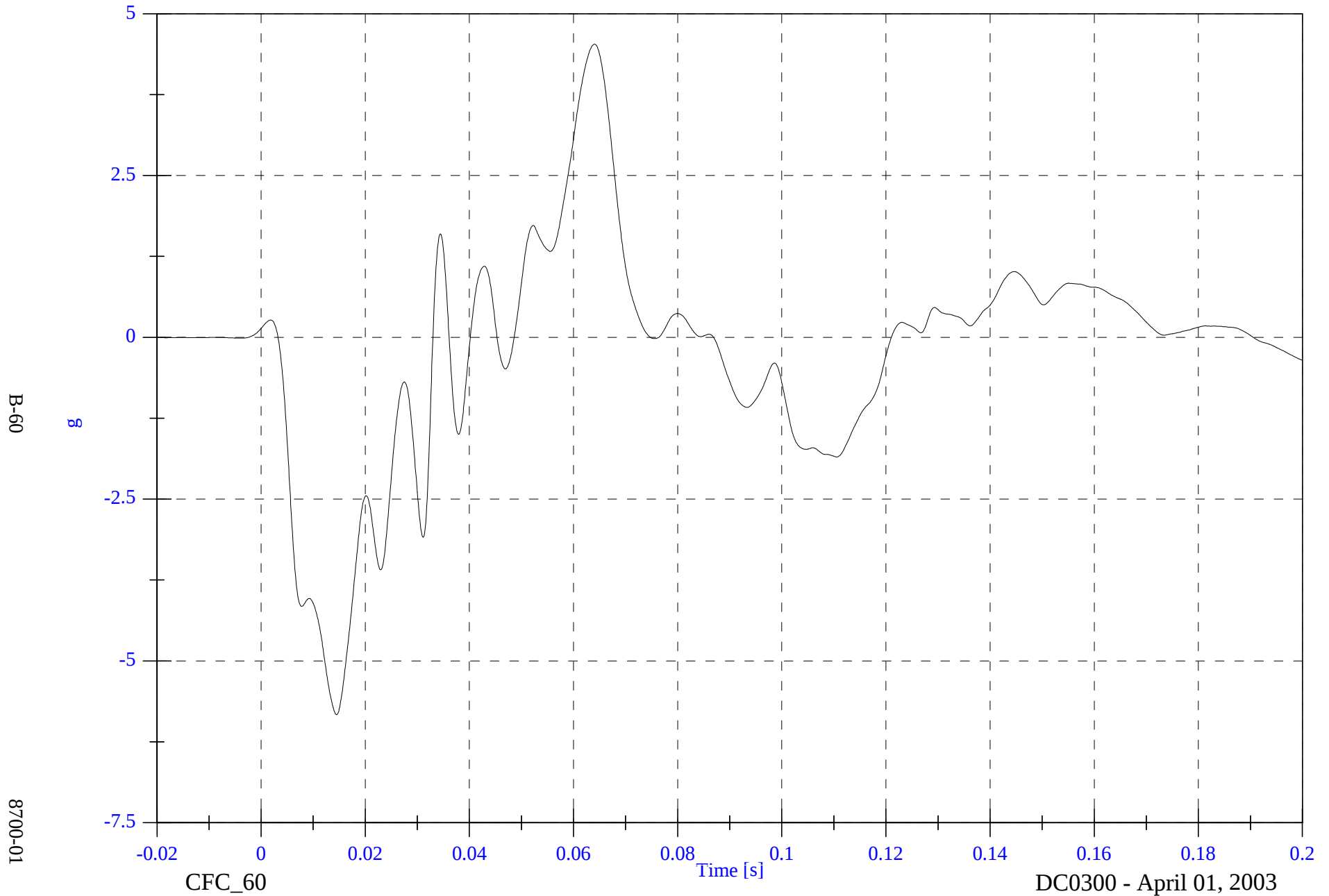


2004 Chrysler Pacifica Optional SNCAP

V2 A1 Right Front Sill X

Max: 4.5 [g] at 0.064 [s]

Min: -5.8 [g] at 0.015 [s]

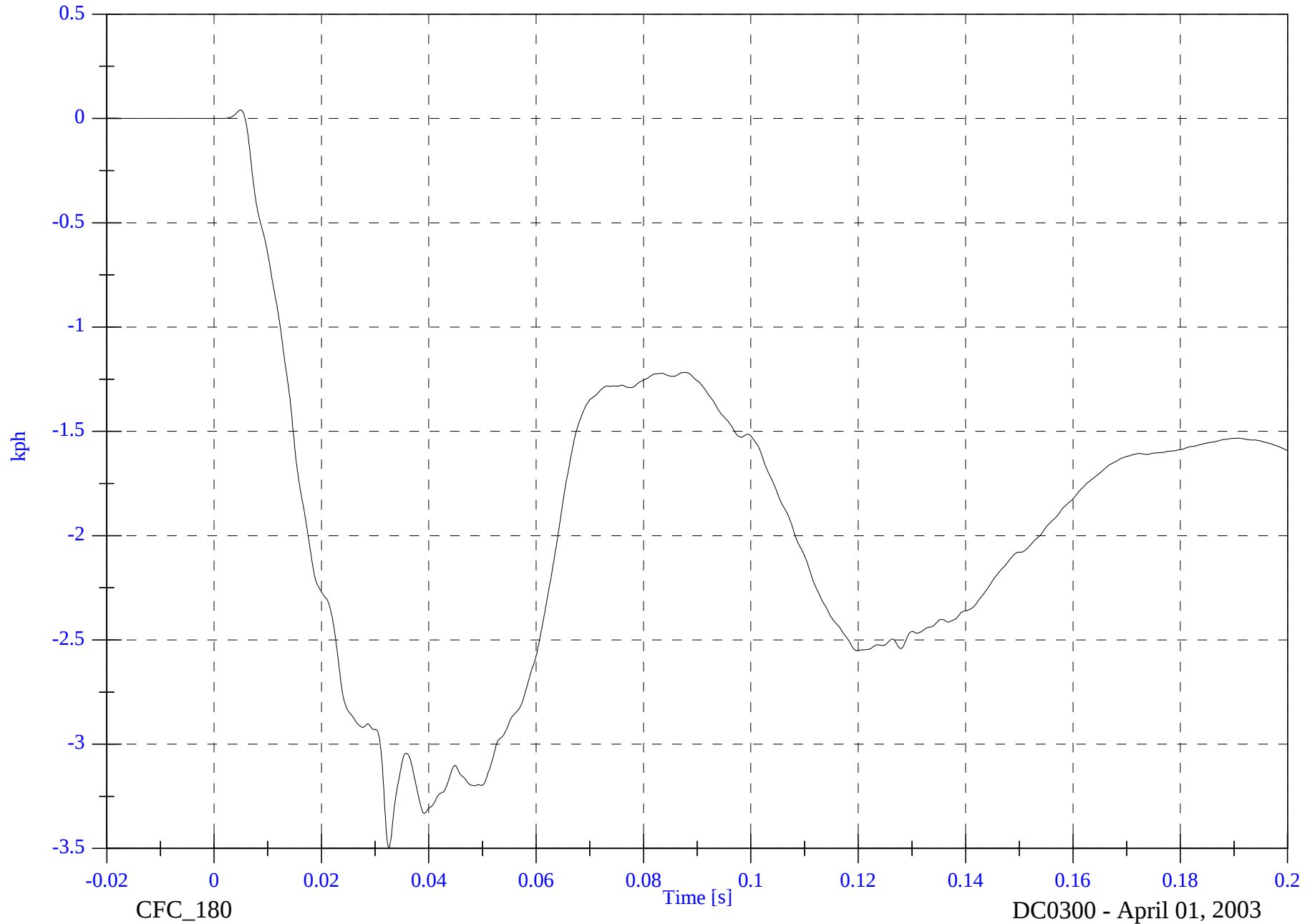


2004 Chrysler Pacifica Optional SNCAP

V2 A1 Right Front Sill X Velocity

Max: 0.0 [kph] at 0.005 [s]

Min: -3.5 [kph] at 0.033 [s]



B-61

8700-01

CFC_180

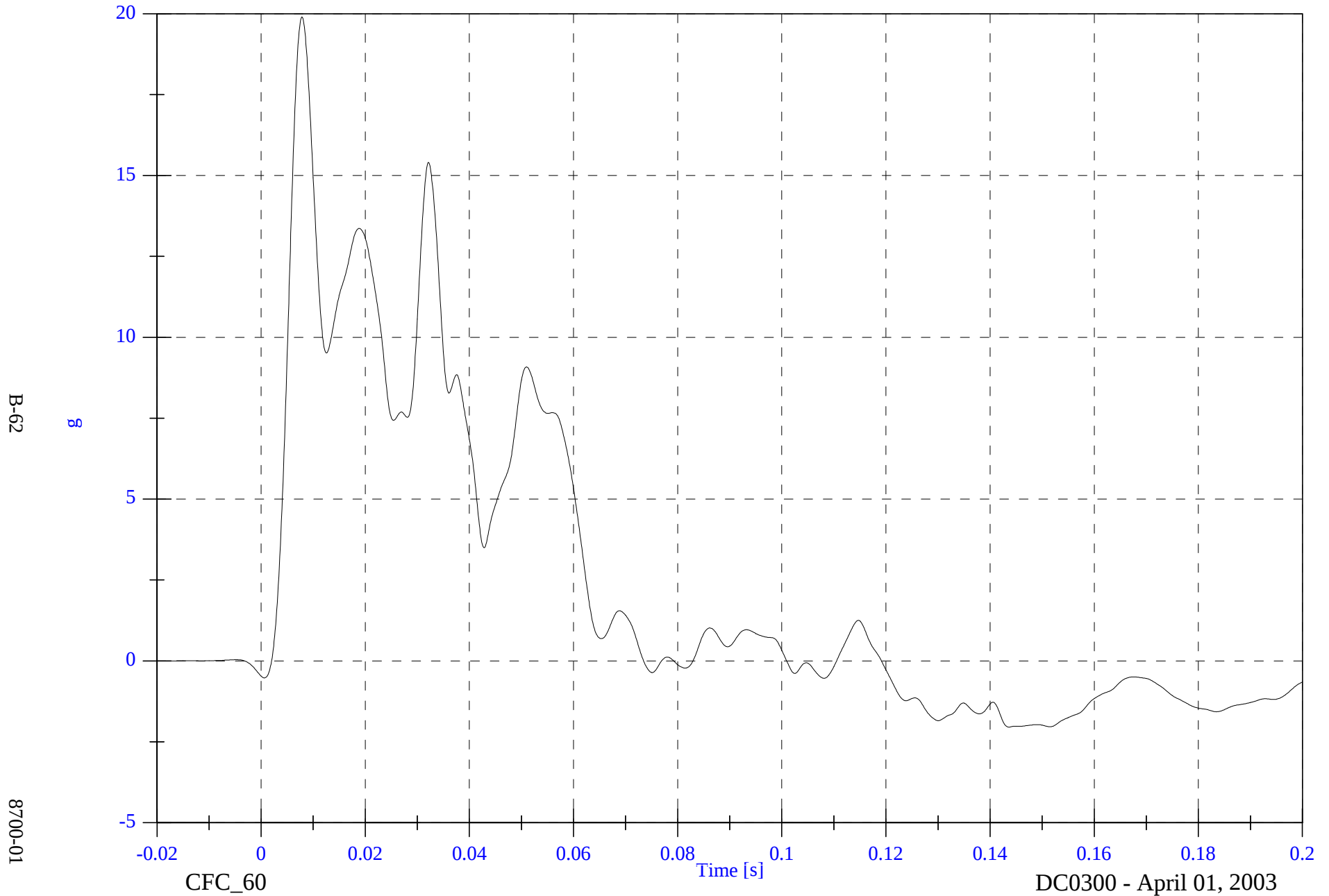
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2004 Chrysler Pacifica Optional SNCAP

V2 A1 Right Front Sill Y

Max: 19.9 [g] at 0.008 [s]

Min: -2.0 [g] at 0.144 [s]

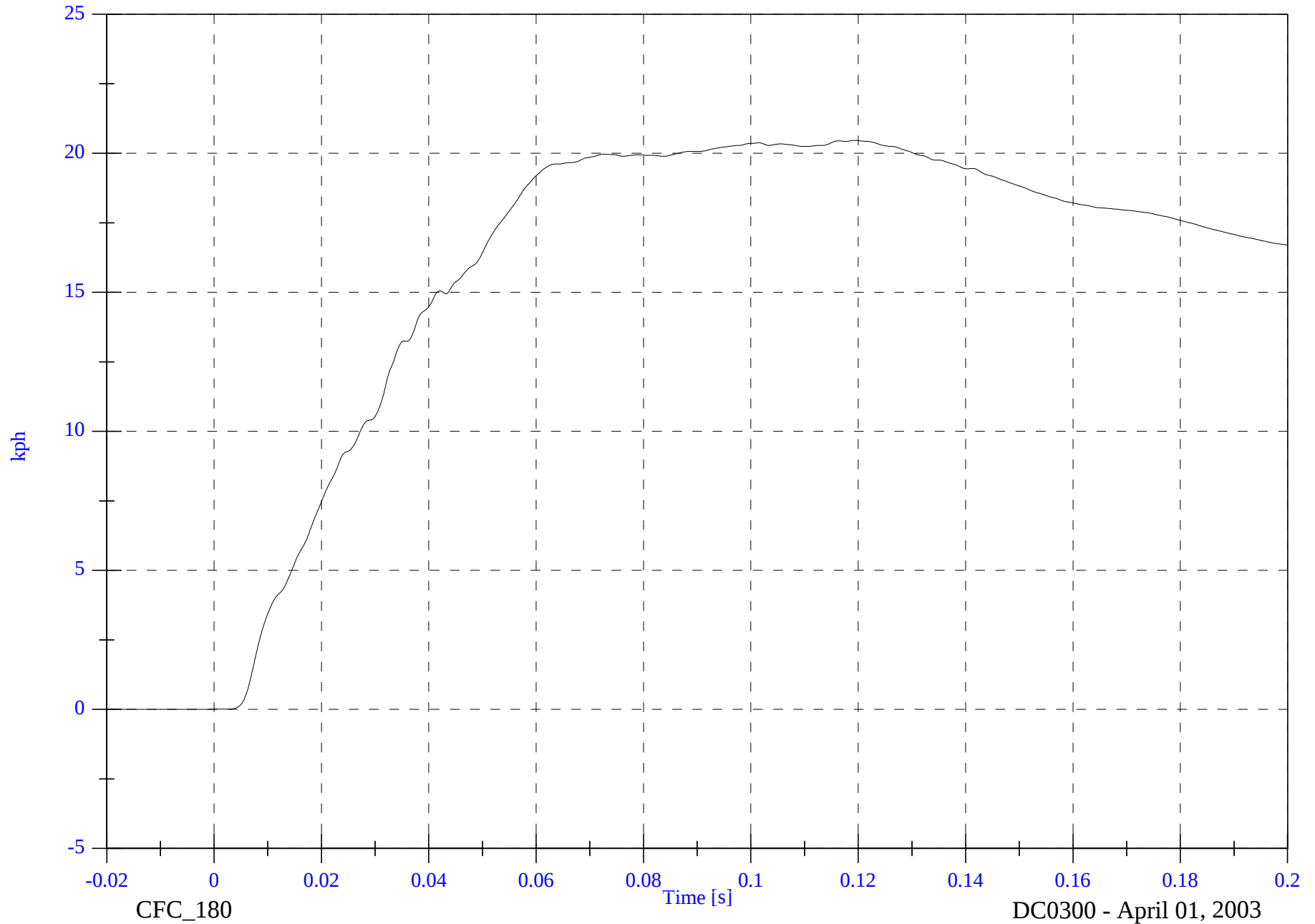


2004 Chrysler Pacifica Optional SNCAP

V2 A1 Right Front Sill Y Velocity

Max: 20.5 [kph] at 0.119 [s]

Min: -0.0 [kph] at -0.019 [s]



B-63

8700-01

CFC_180

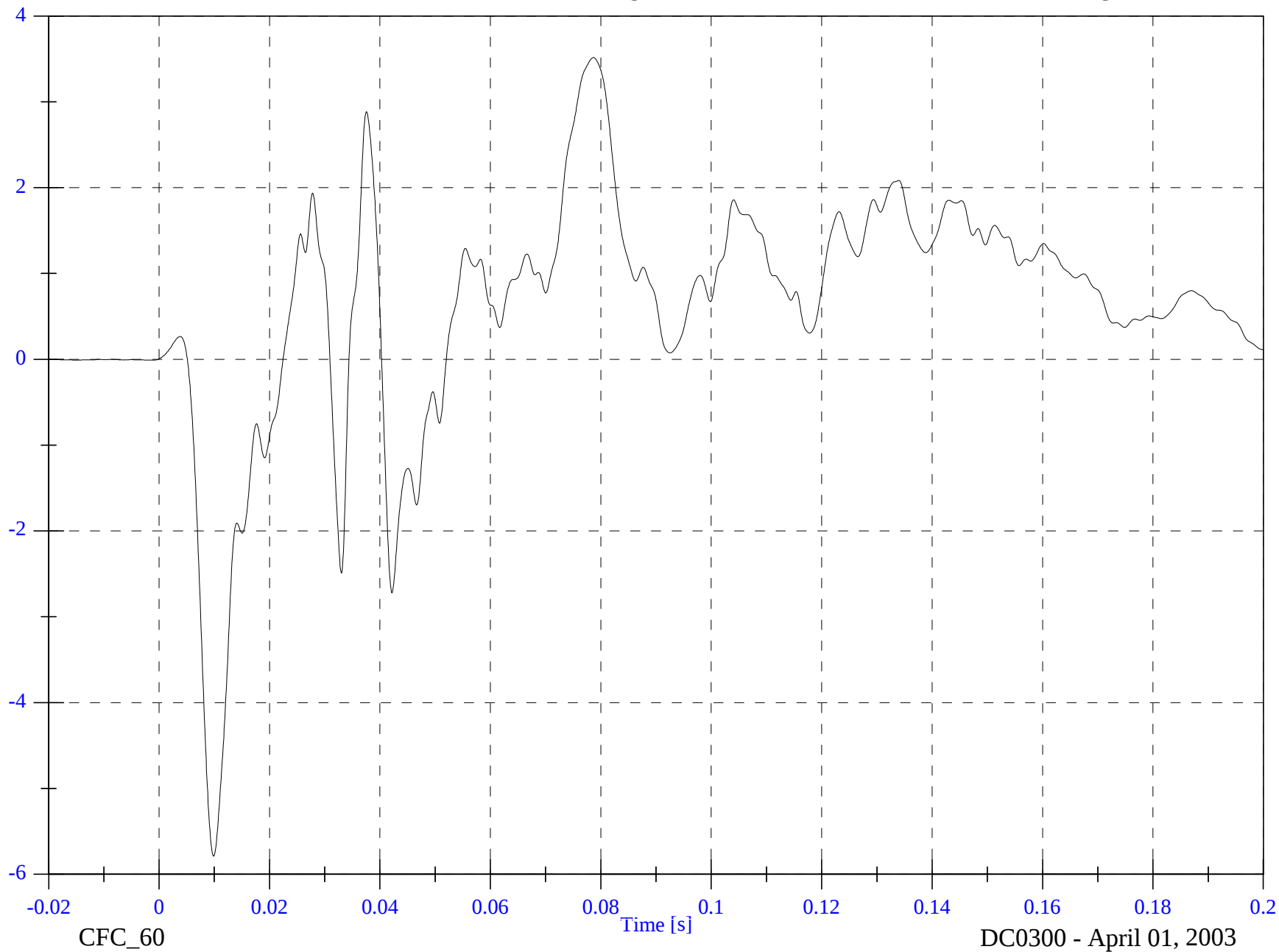
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2 A1 Right Front Sill Z

Max: 3.5 [g] at 0.079 [s]

Min: -5.8 [g] at 0.010 [s]



B-64

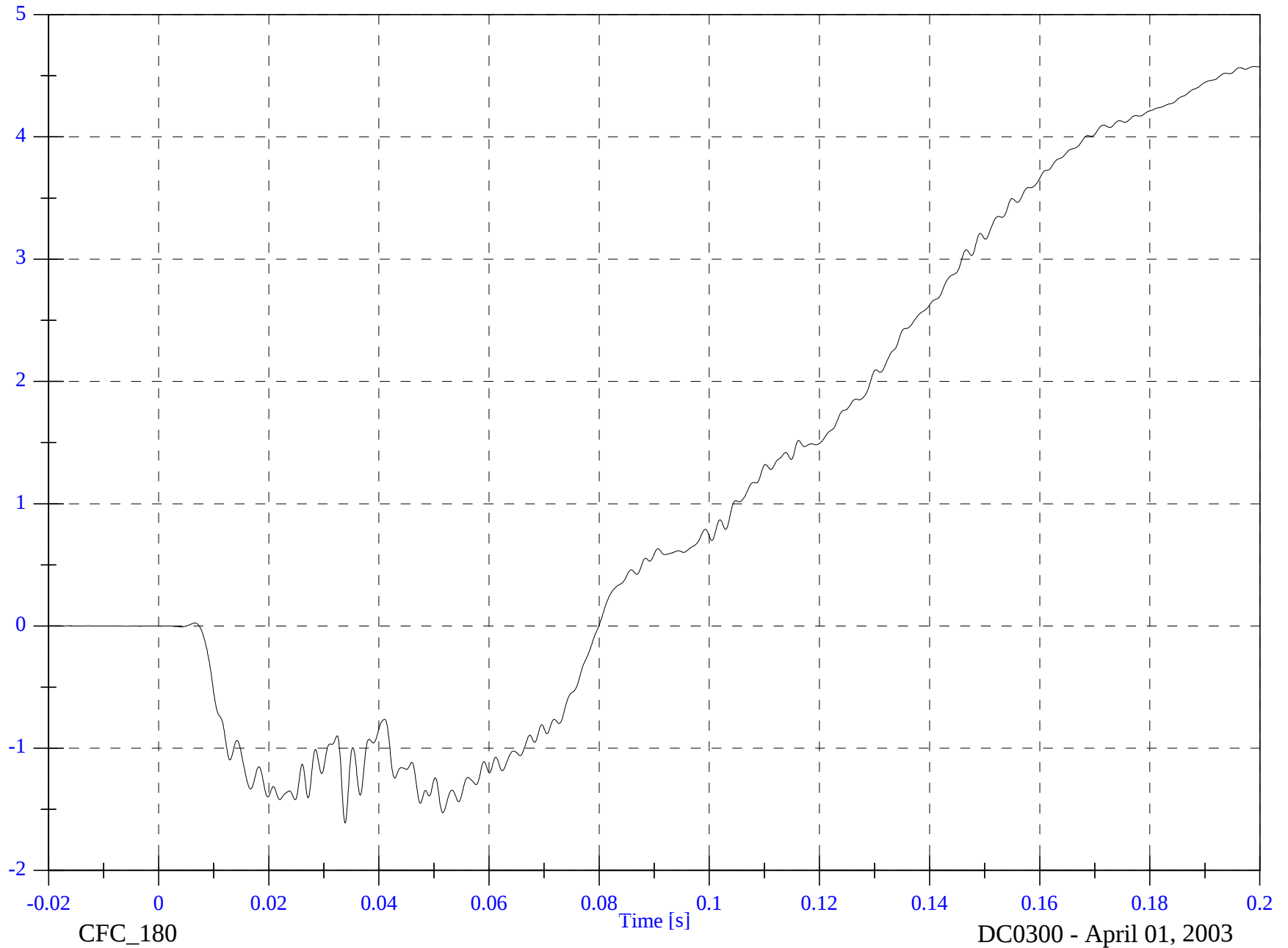
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A1 Right Front Sill Z Velocity

Max: 4.6 [kph] at 0.199 [s]

Min: -1.6 [kph] at 0.034 [s]



B-65

8700-01

2004 Chrysler Pacifica Optional SNCAP

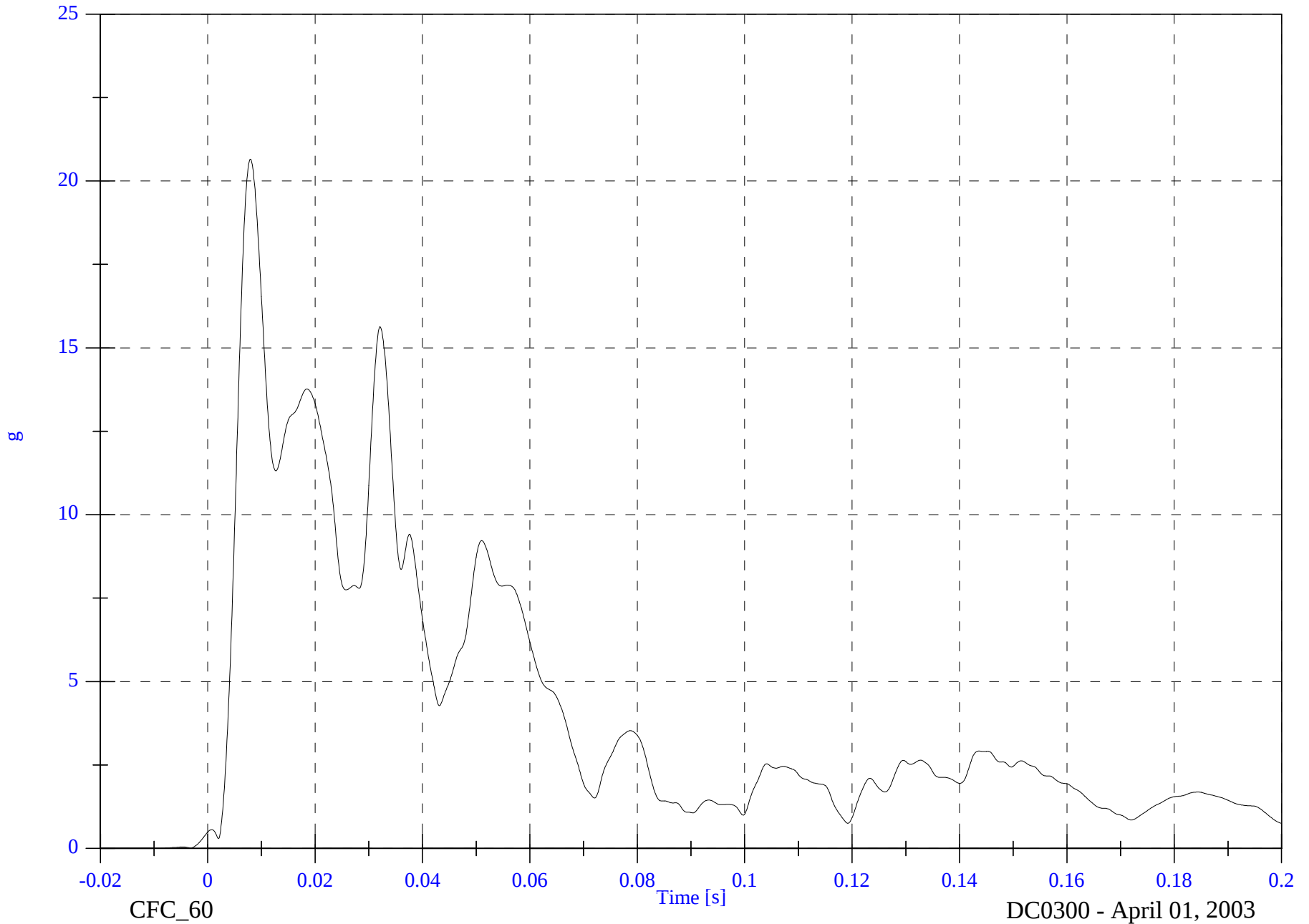
V2 A1 Right Front Sill Resultant

Max: 20.7 [g] at 0.008 [s]

Min: 0.0 [g] at -0.020 [s]

B-66

8700-01



2004 Chrysler Pacifica Optional SNCAP

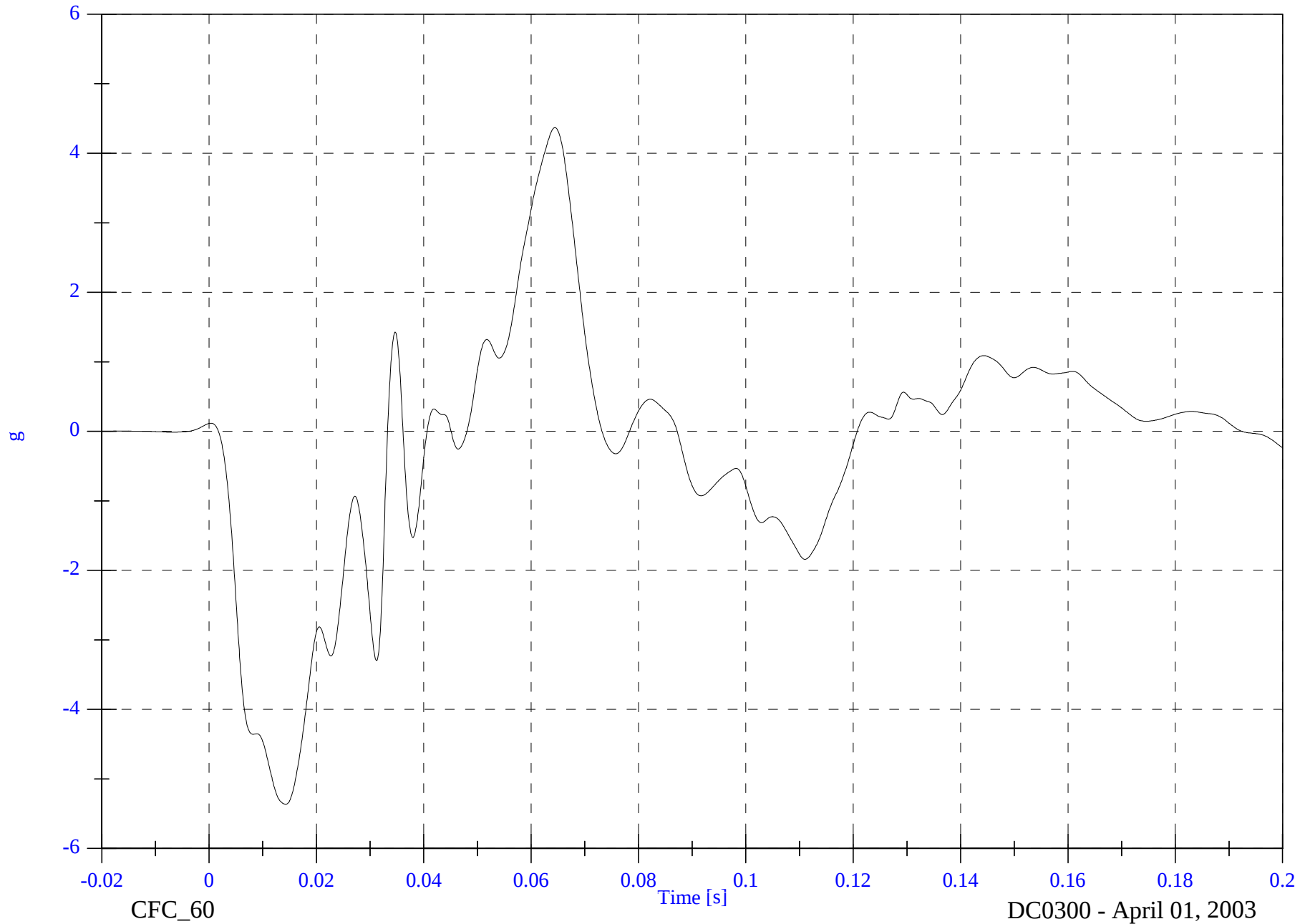
V2 A2 Right Rear Sill X

Max: 4.4 [g] at 0.064 [s]

Min: -5.4 [g] at 0.014 [s]

B-67

8700-01

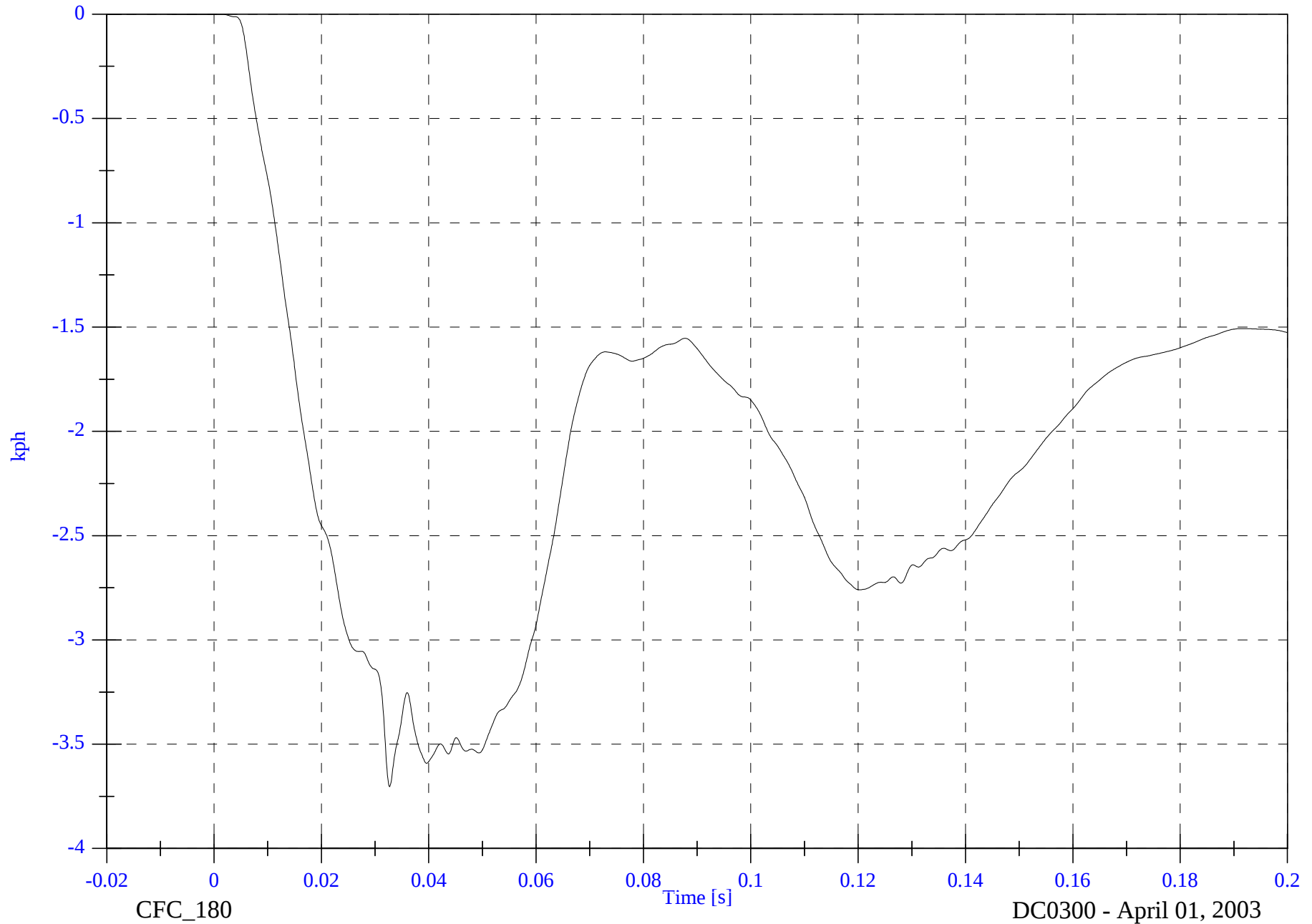


2004 Chrysler Pacifica Optional SNCAP

V2 A2 Right Rear Sill X Velocity

Max: 0.0 [kph] at -0.014 [s]

Min: -3.7 [kph] at 0.033 [s]



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8700-01

CFC_180

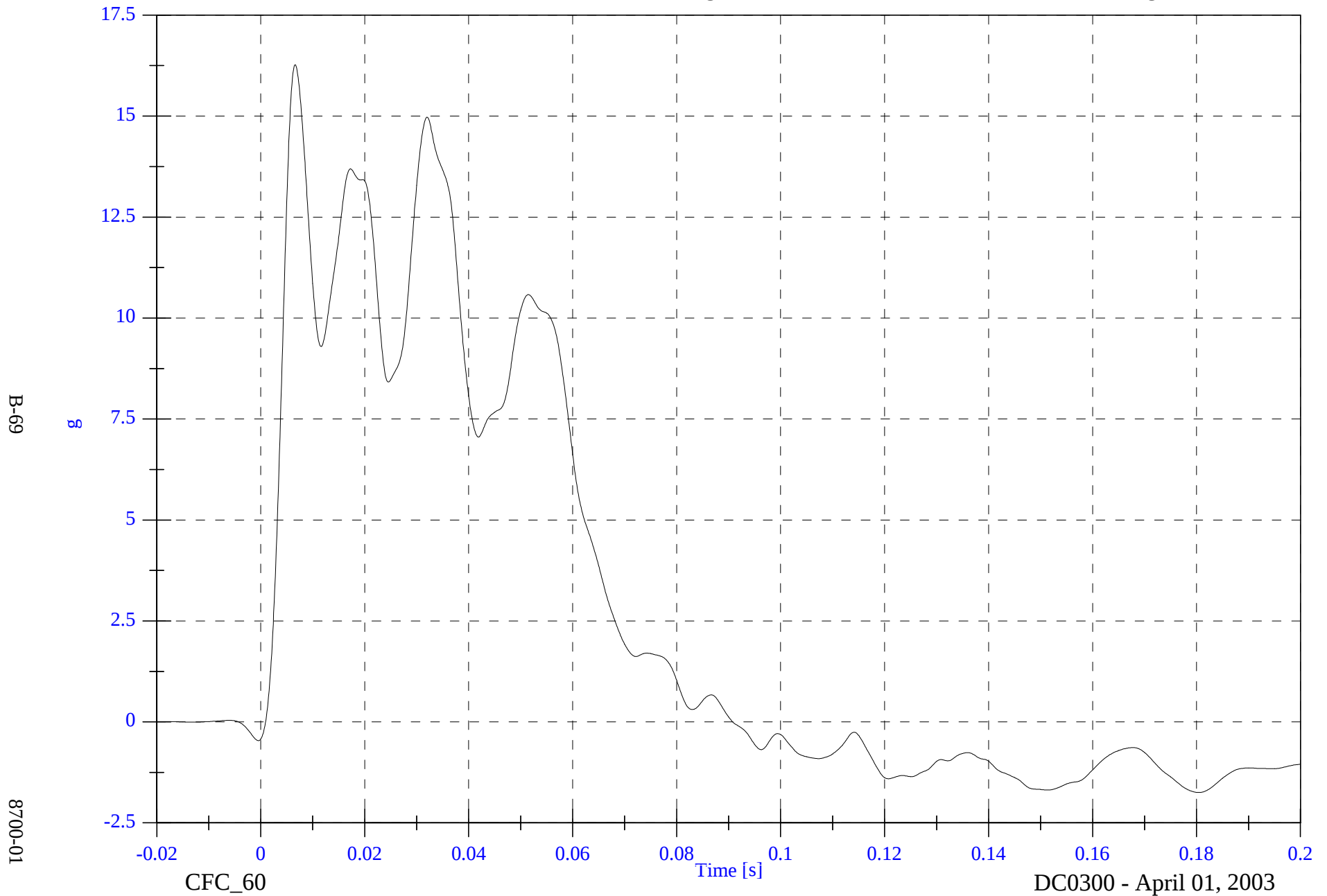
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2 A2 Right Rear Sill Y

Max: 16.3 [g] at 0.007 [s]

Min: -1.7 [g] at 0.180 [s]

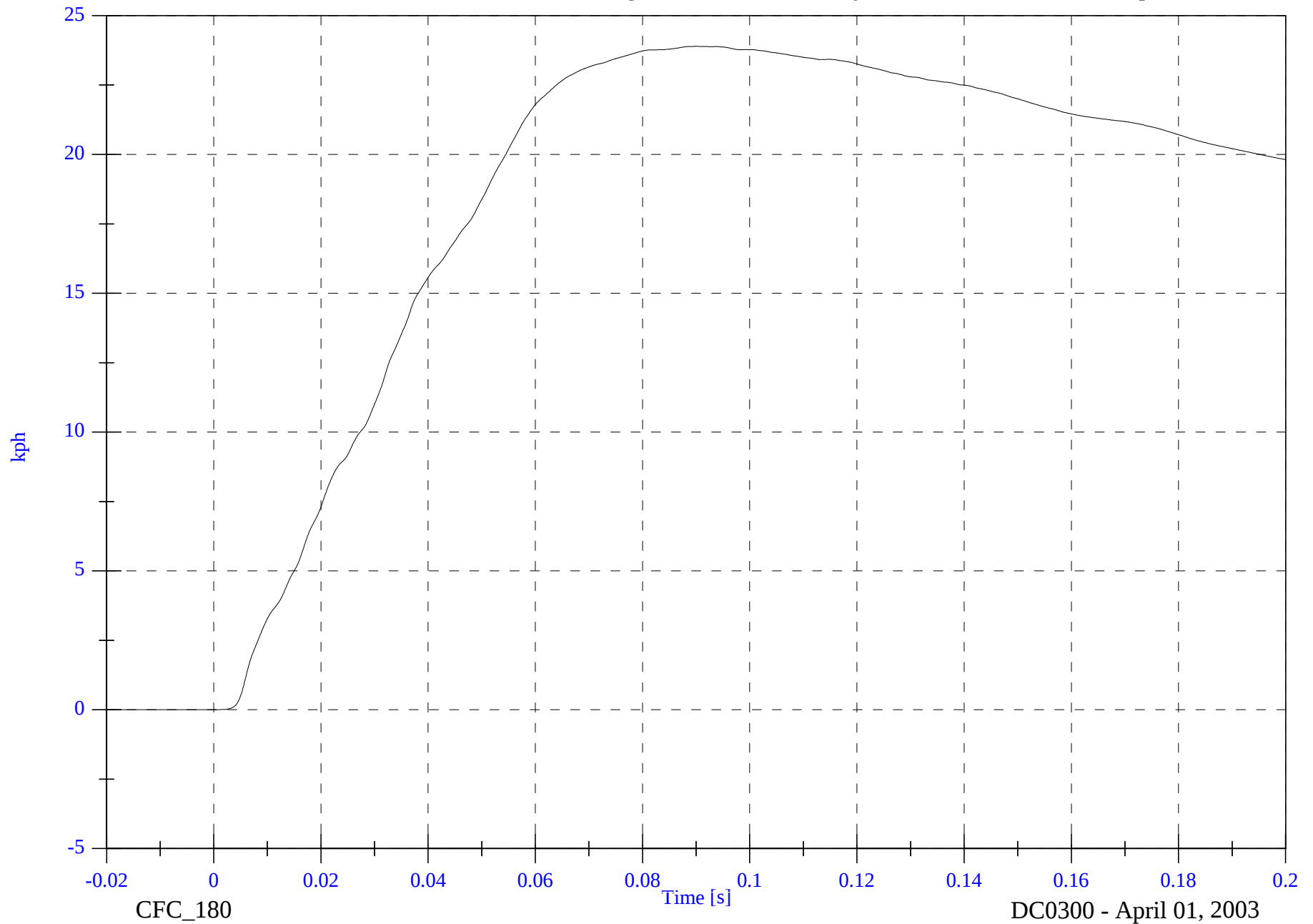


2004 Chrysler Pacifica Optional SNCAP

V2 A2 Right Rear Sill Y Velocity

Max: 23.9 [kph] at 0.090 [s]

Min: -0.0 [kph] at -0.020 [s]



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8700-01

2004 Chrysler Pacifica Optional SNCAP

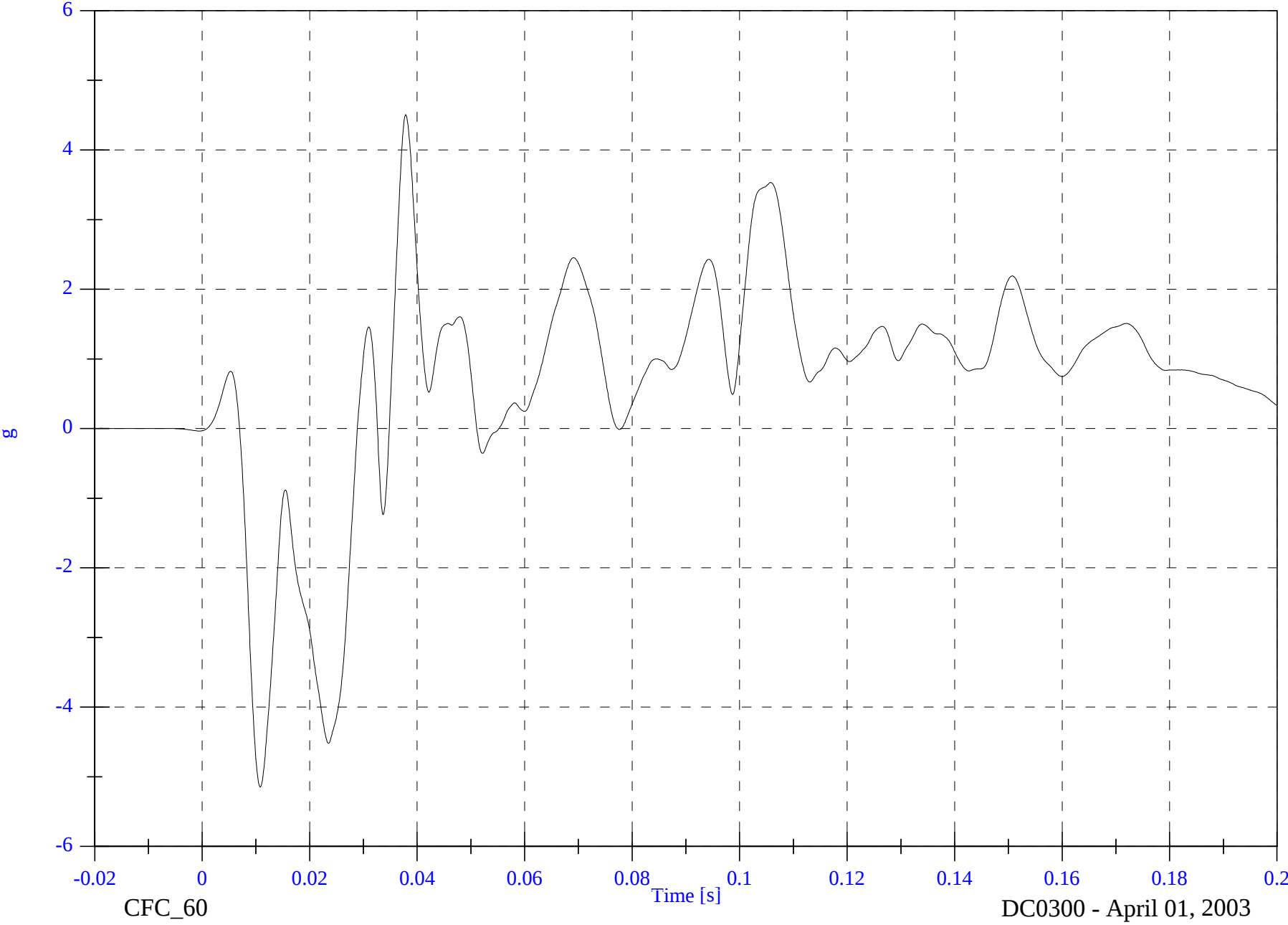
V2 A2 Right Rear Sill Z

Max: 4.5 [g] at 0.038 [s]

Min: -5.1 [g] at 0.011 [s]

B-71

8700-01



CFC_60

Time [s]

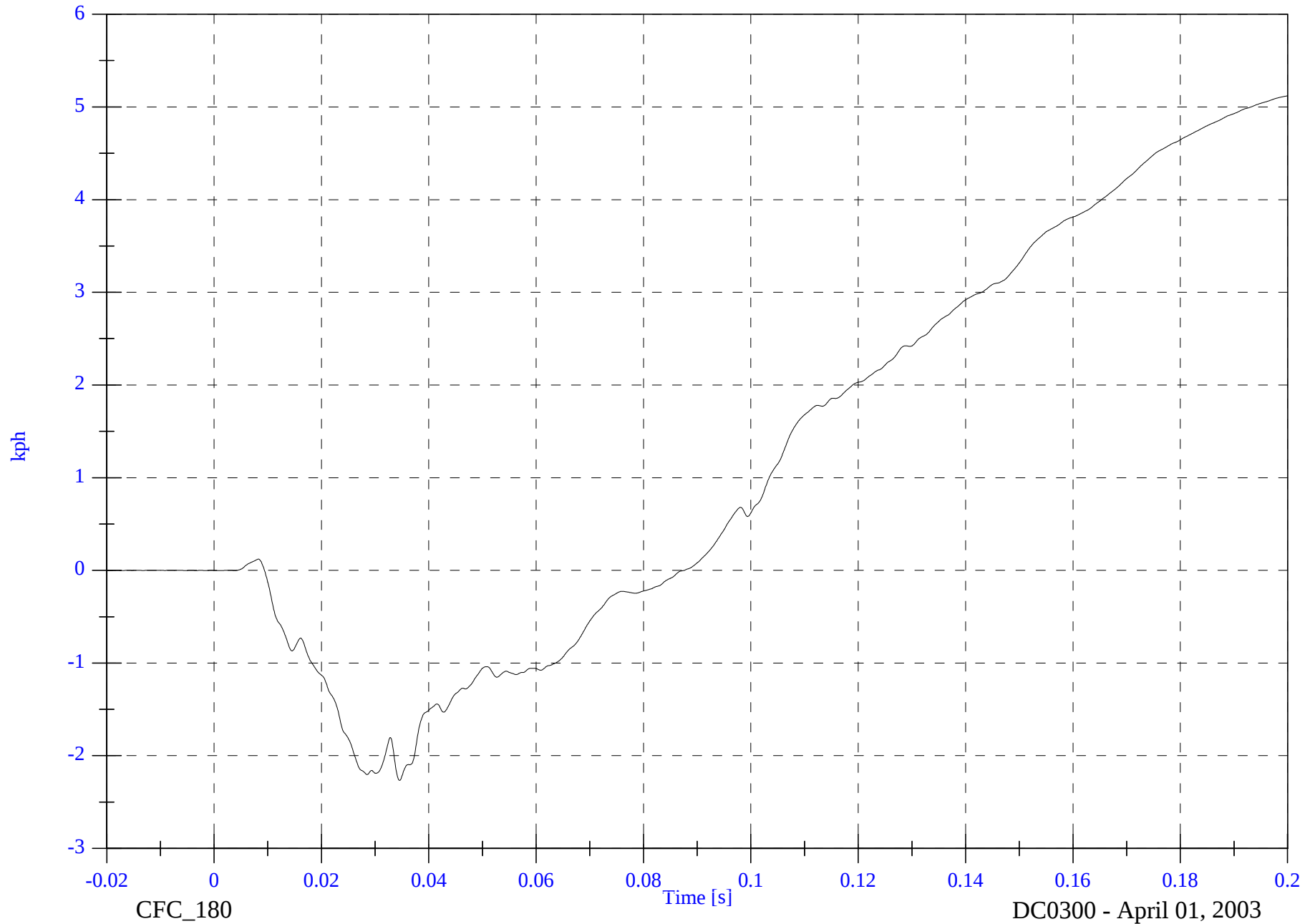
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2 A2 Right Rear Sill Z Velocity

Max: 5.1 [kph] at 0.200 [s]

Min: -2.3 [kph] at 0.035 [s]



B-72

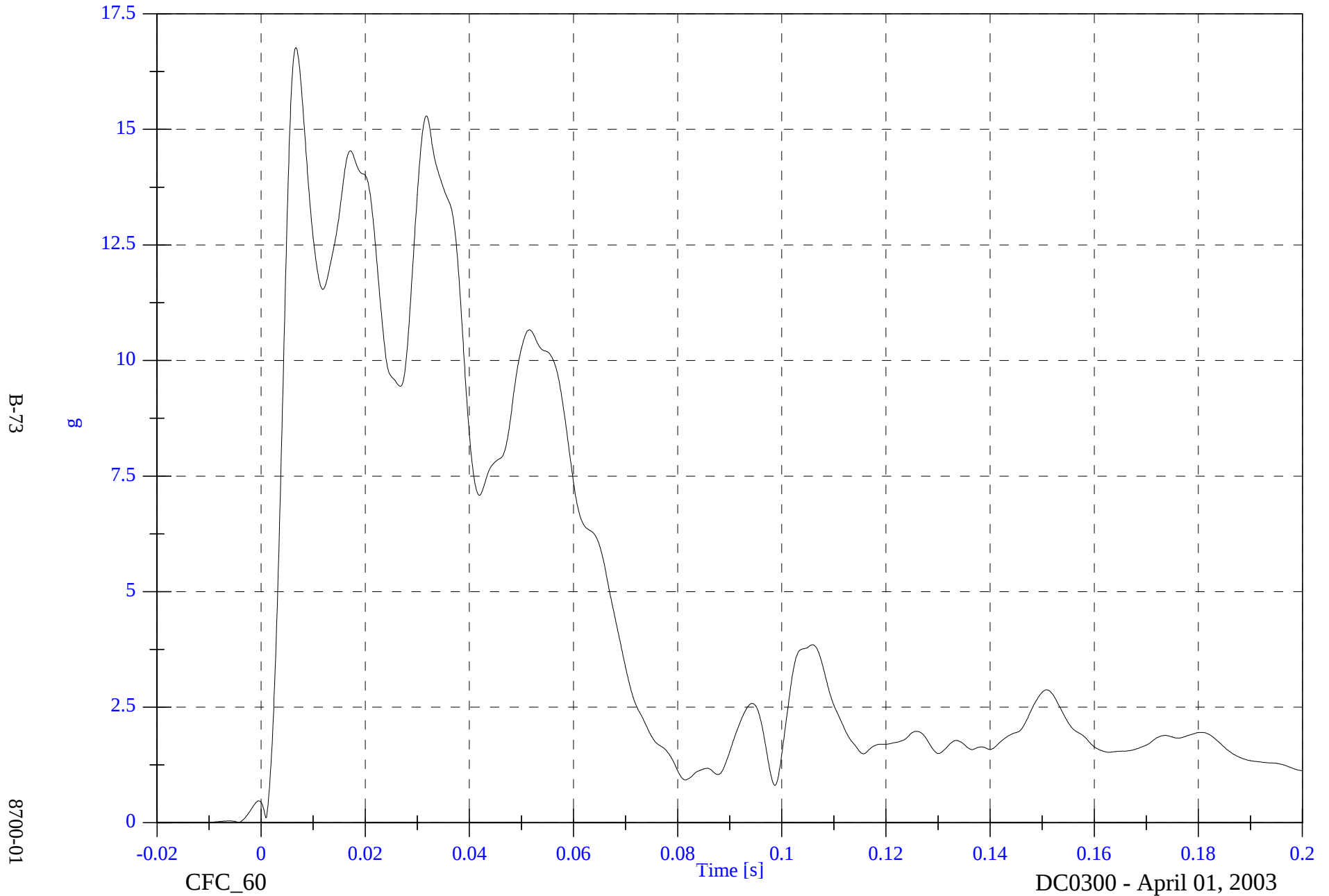
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A2 Right Rear Sill Resultant

Max: 16.8 [g] at 0.007 [s]

Min: 0.0 [g] at -0.012 [s]

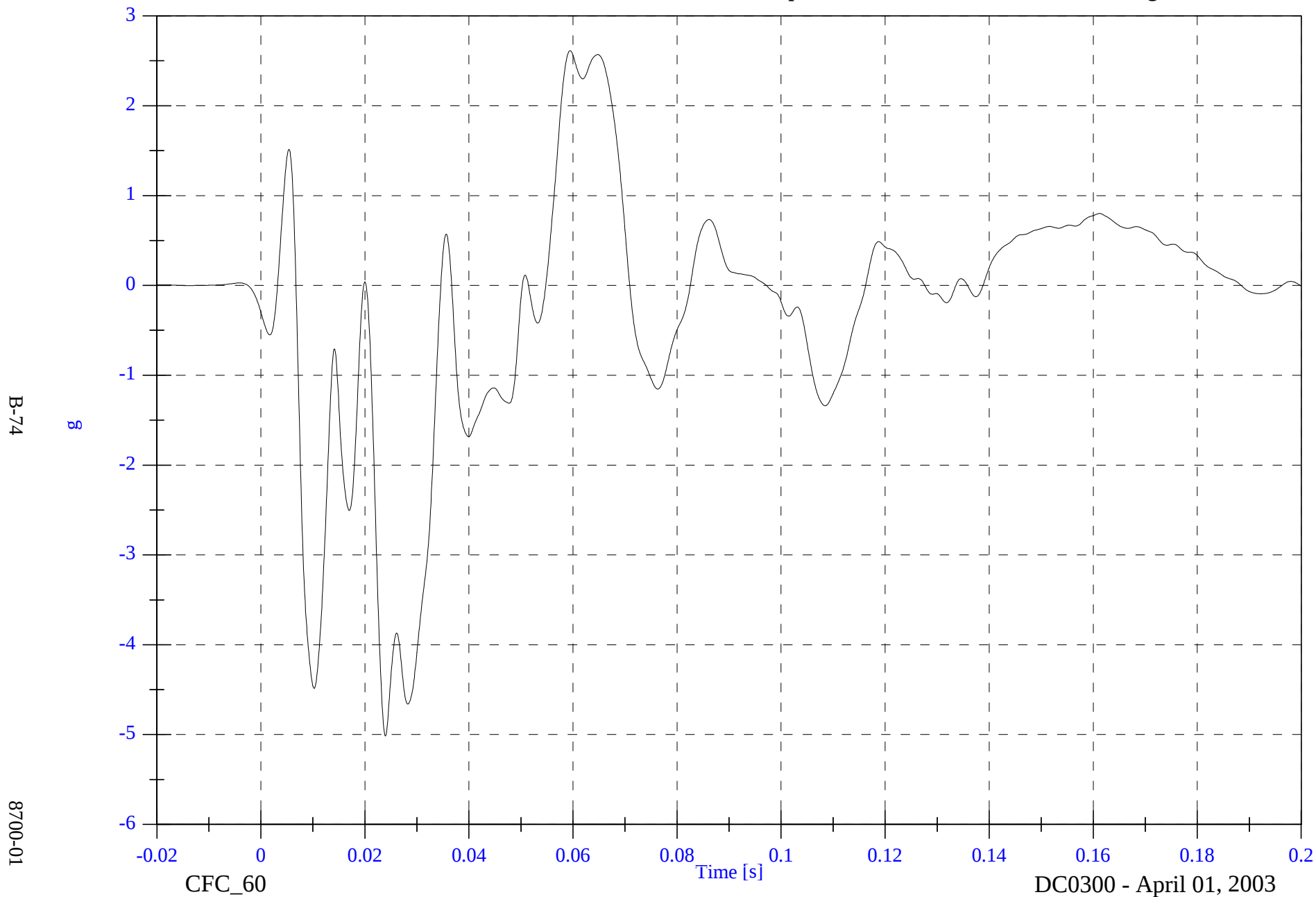


2004 Chrysler Pacifica Optional SNCAP

V2 A3 Rear Floorpan X

Max: 2.6 [g] at 0.059 [s]

Min: -5.0 [g] at 0.024 [s]



B-74

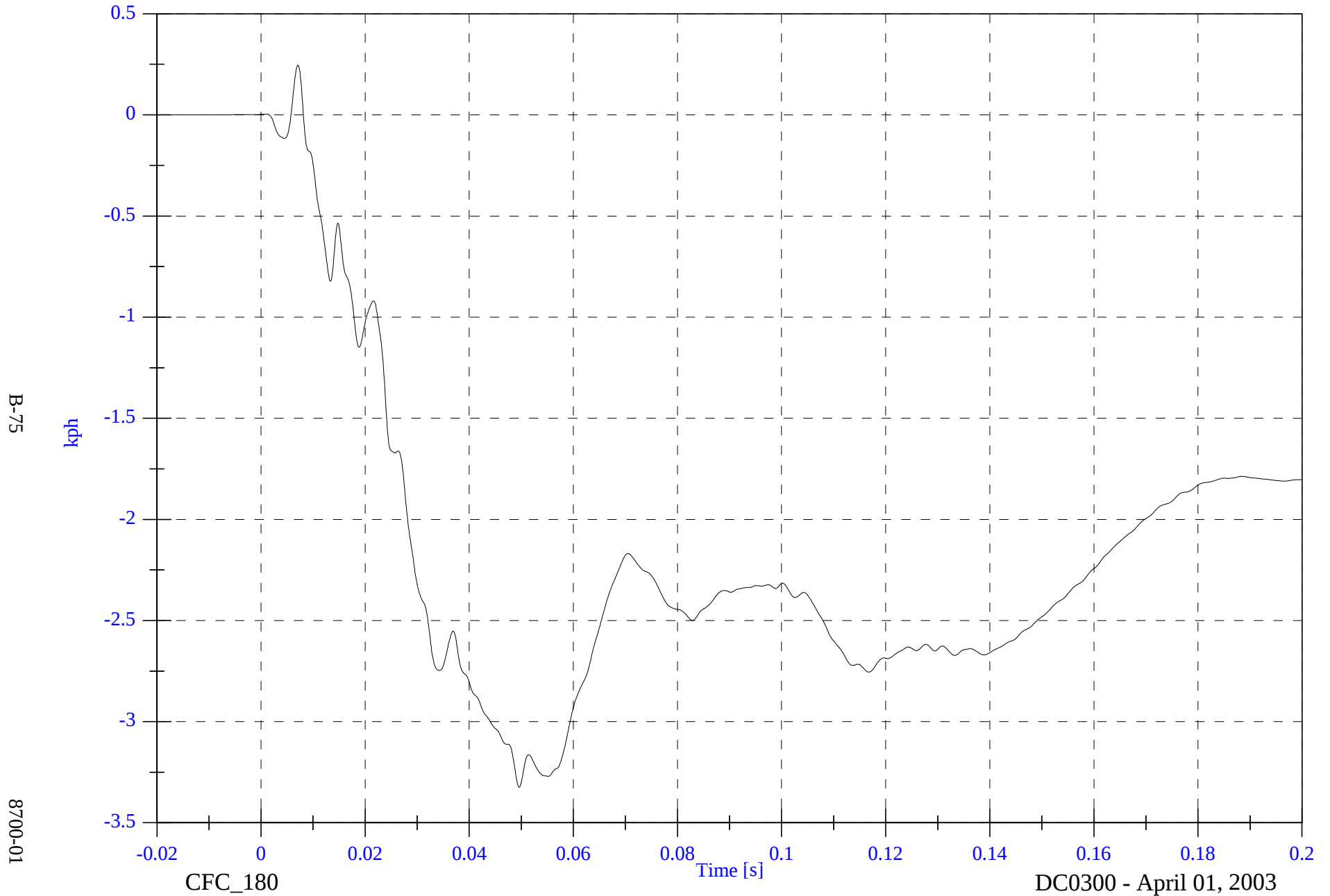
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A3 Rear Floorpan X Velocity

Max: 0.2 [kph] at 0.007 [s]

Min: -3.3 [kph] at 0.050 [s]

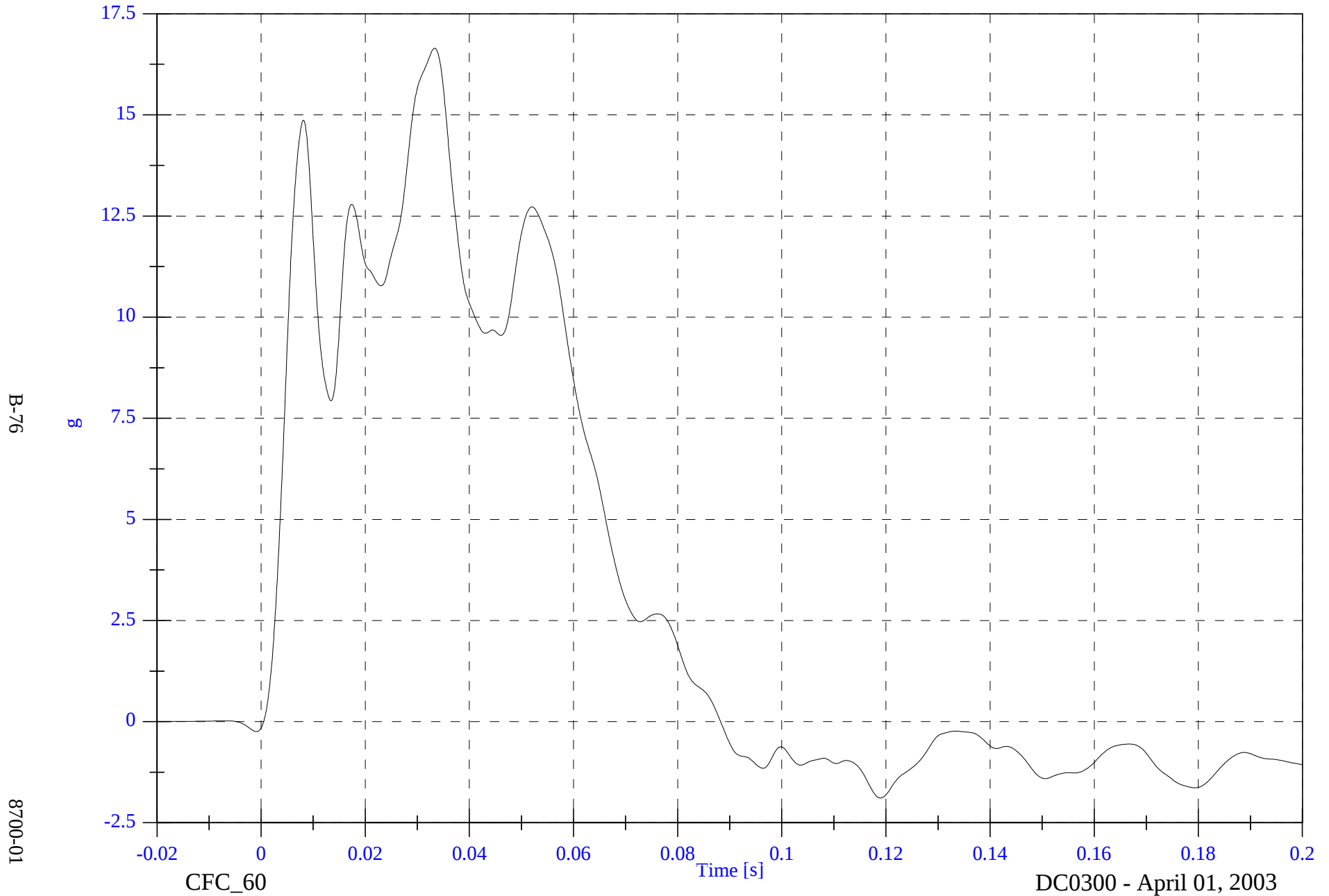


2004 Chrysler Pacifica Optional SNCAP

V2 A3 Rear Floorpan Y

Max: 16.6 [g] at 0.033 [s]

Min: -1.9 [g] at 0.119 [s]

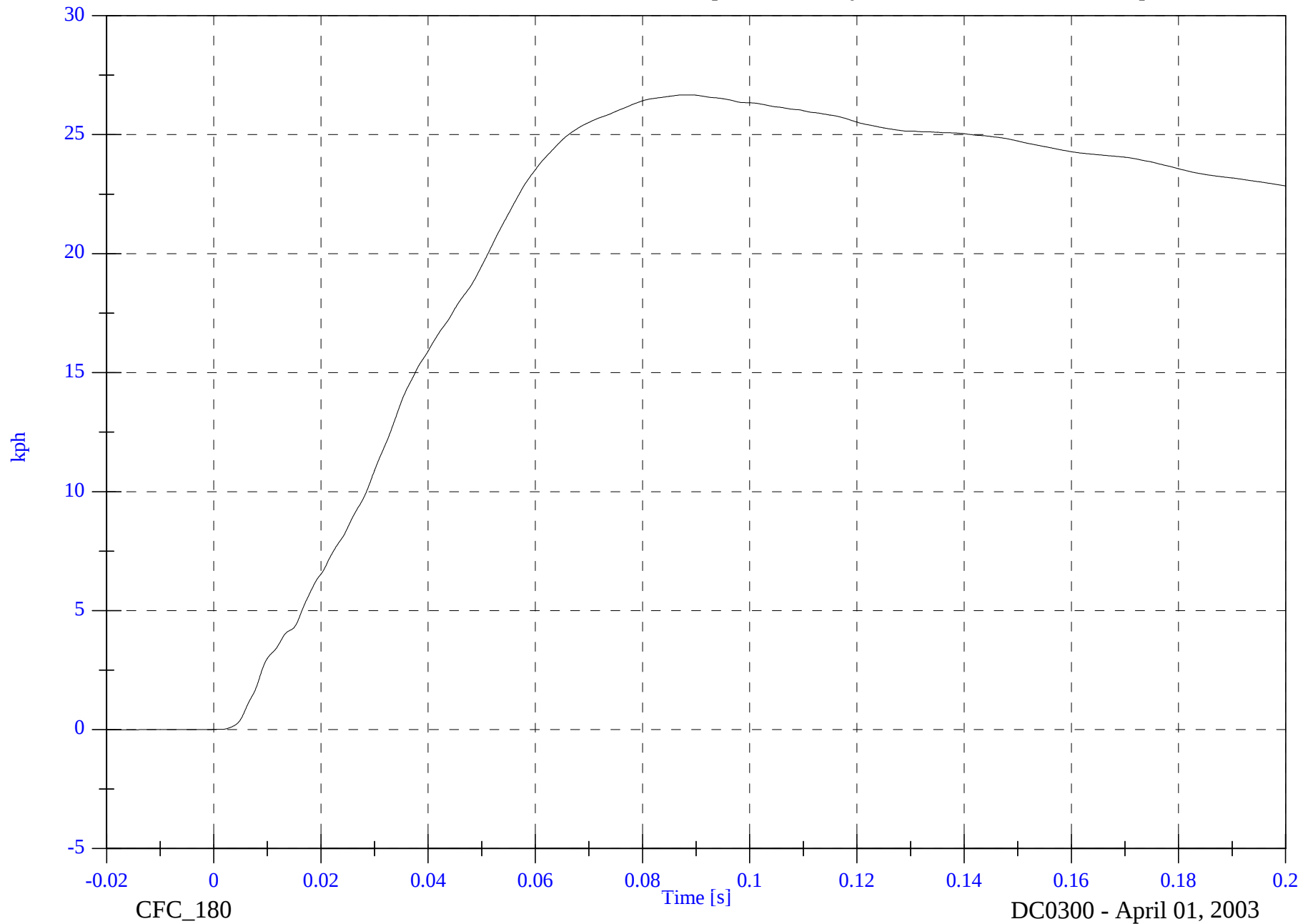


2004 Chrysler Pacifica Optional SNCAP

V2 A3 Rear Floorpan Y Velocity

Max: 26.7 [kph] at 0.089 [s]

Min: -0.0 [kph] at -0.020 [s]



B-77

8700-01

CFC_180

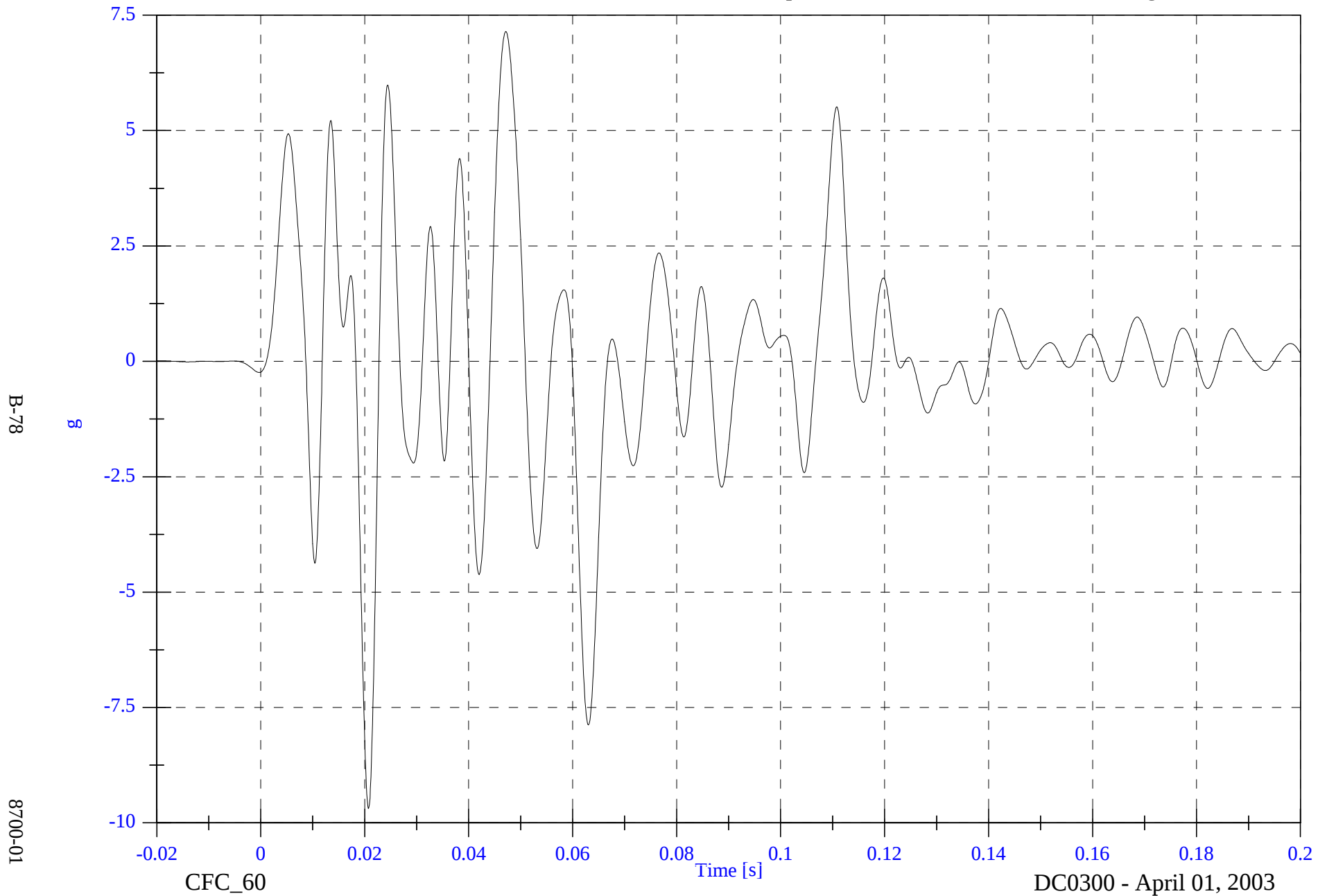
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2 A3 Rear Floorplan Z

Max: 7.1 [g] at 0.047 [s]

Min: -9.7 [g] at 0.021 [s]

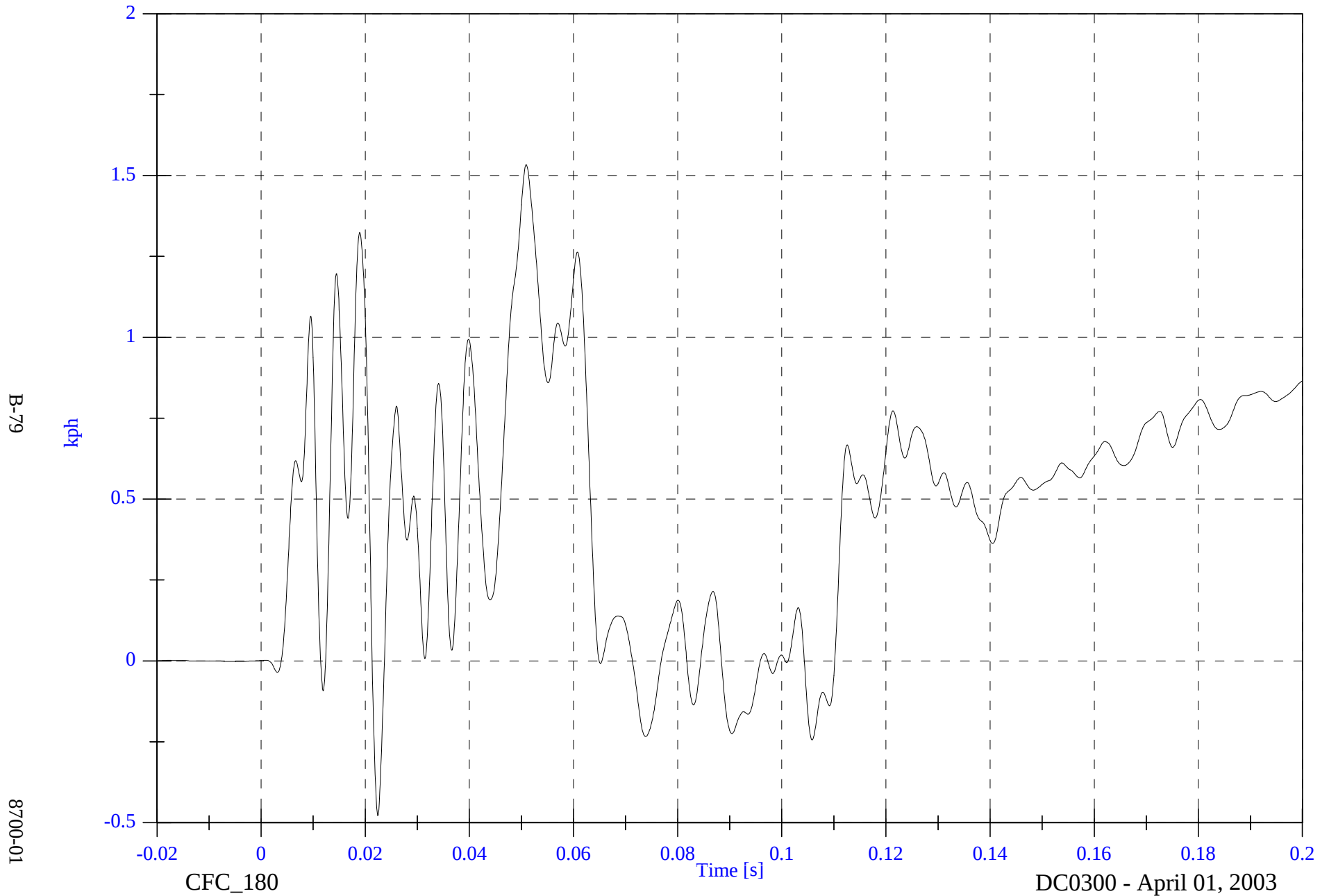


2004 Chrysler Pacifica Optional SNCAP

V2 A3 Rear Floorplan Z Velocity

Max: 1.5 [kph] at 0.051 [s]

Min: -0.5 [kph] at 0.022 [s]

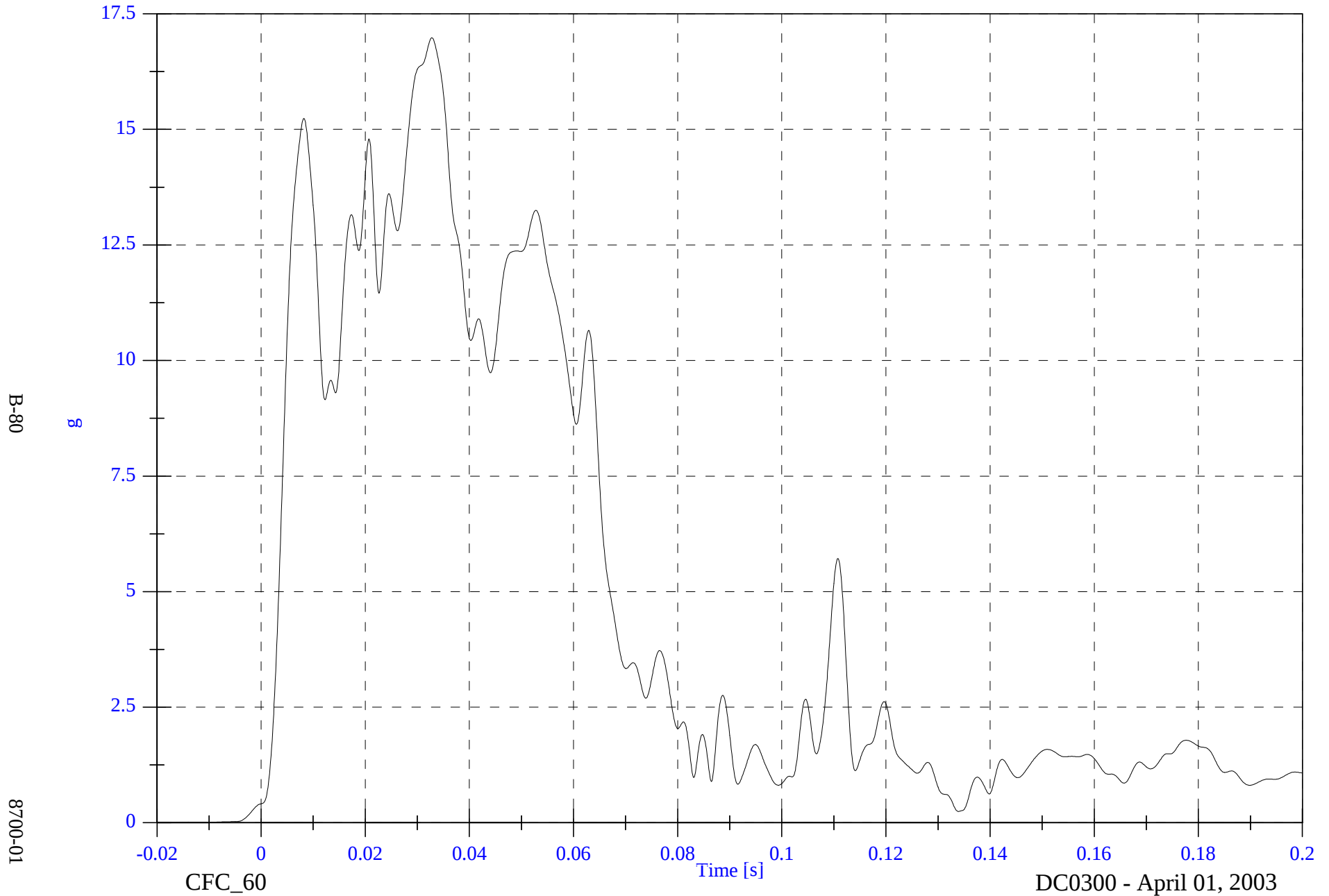


2004 Chrysler Pacifica Optional SNCAP

V2 A3 Rear Floorpan Resultant

Max: 17.0 [g] at 0.033 [s]

Min: 0.0 [g] at -0.017 [s]

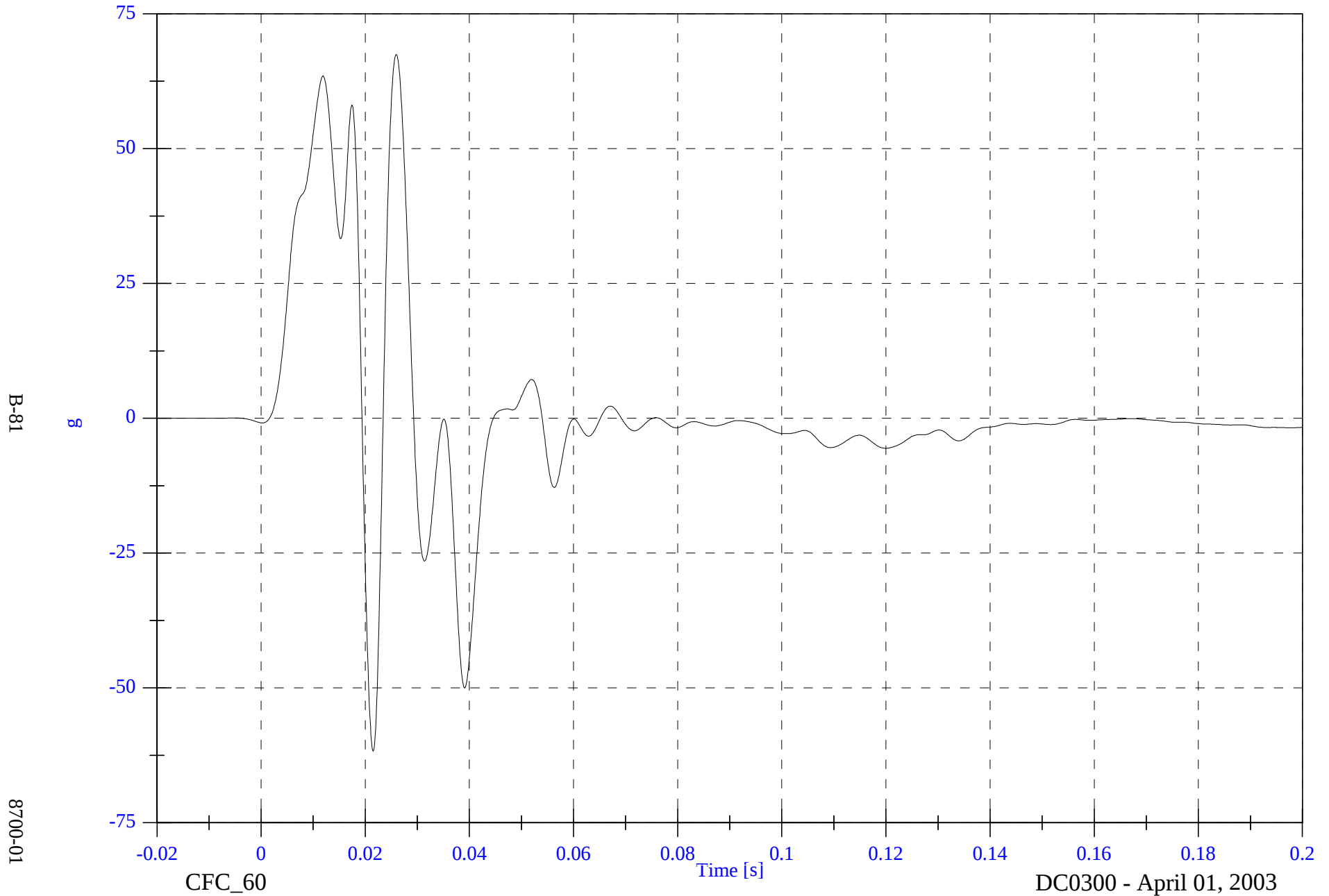


2004 Chrysler Pacifica Optional SNCAP

V2 A4 Left Rear Sill Y

Max: 67.4 [g] at 0.026 [s]

Min: -61.7 [g] at 0.021 [s]

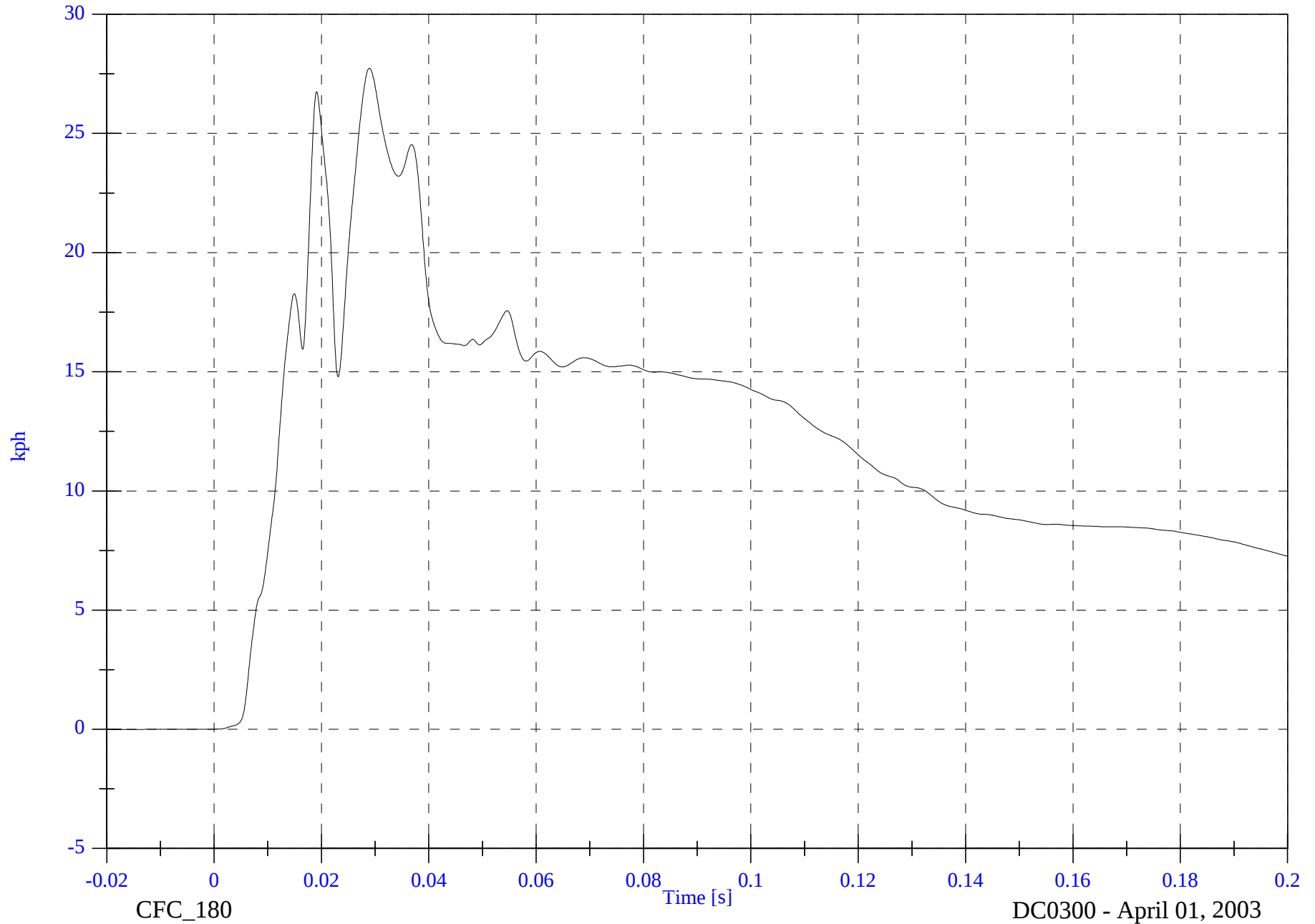


2004 Chrysler Pacifica Optional SNCAP

V2 A4 Left Rear Sill Y Velocity

Max: 27.7 [kph] at 0.029 [s]

Min: -0.0 [kph] at -0.020 [s]



B-82

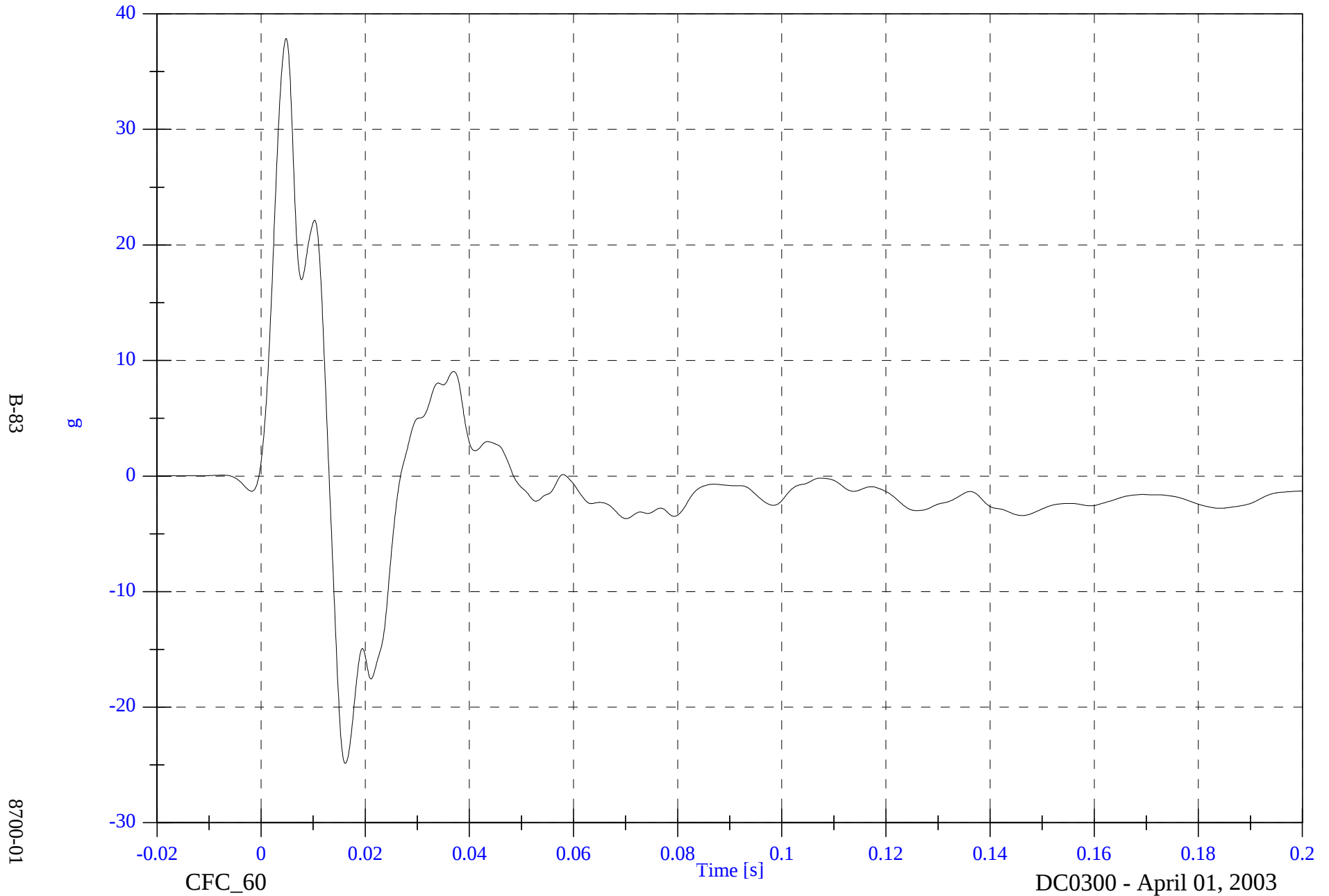
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A5 Left Front Sill Y

Max: 37.9 [g] at 0.005 [s]

Min: -24.9 [g] at 0.016 [s]

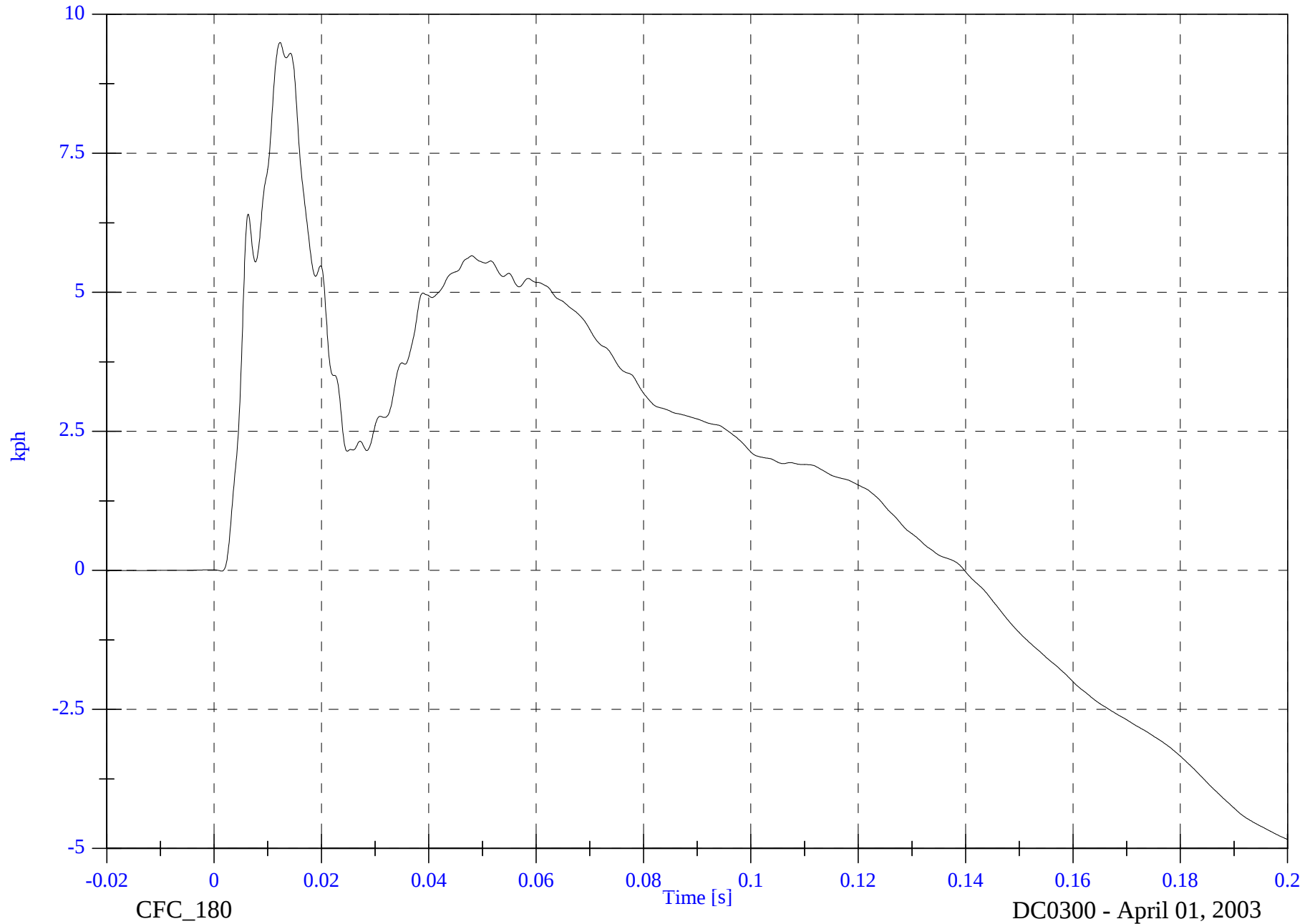


2004 Chrysler Pacifica Optional SNCAP

V2 A5 Left Front Sill Y Velocity

Max: 9.5 [kph] at 0.012 [s]

Min: -4.8 [kph] at 0.200 [s]



B-84

8700-01

CFC_180

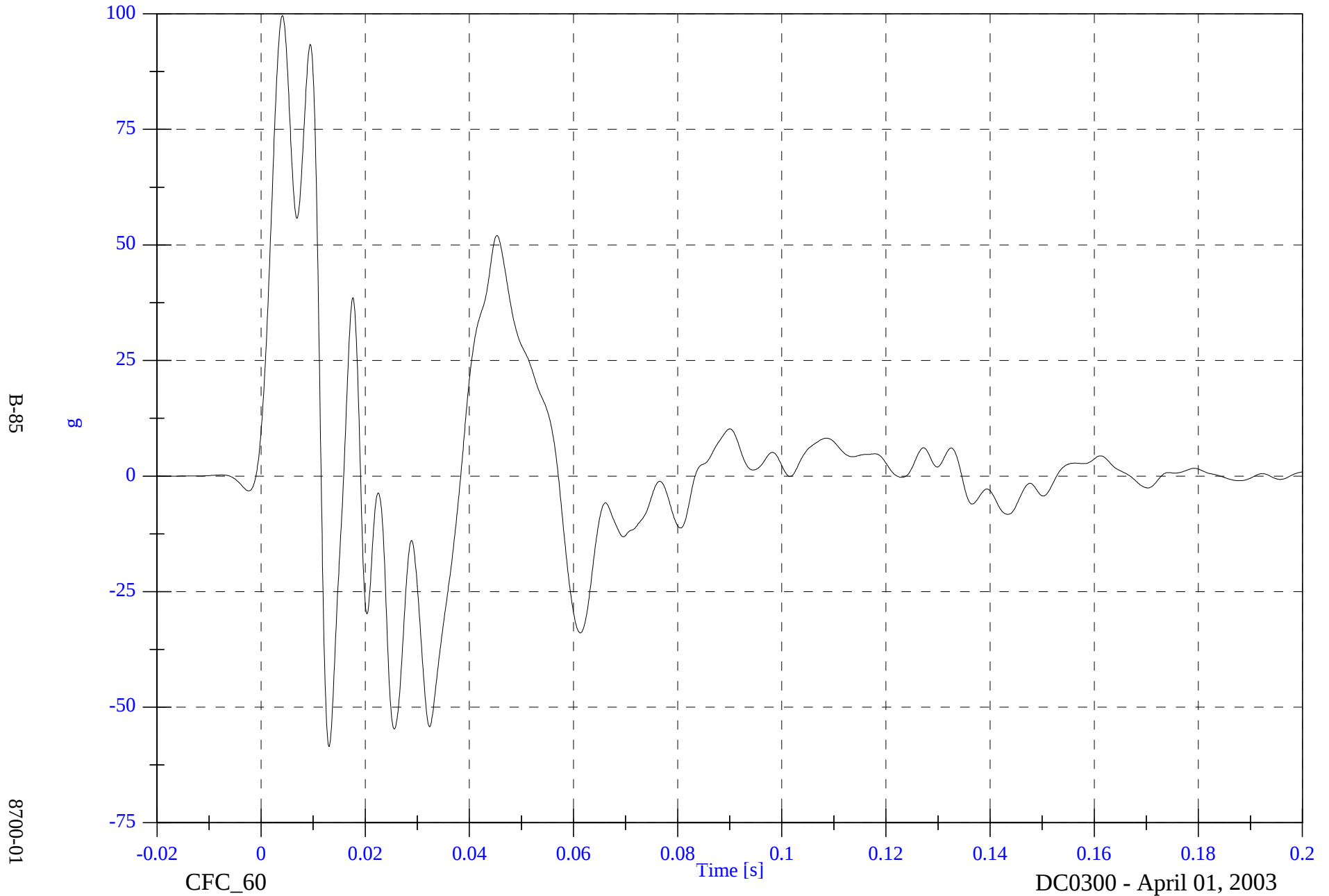
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2004 Chrysler Pacifica Optional SNCAP

V2 A6 Left Front Door C/L Y

Max: 99.6 [g] at 0.004 [s]

Min: -58.5 [g] at 0.013 [s]

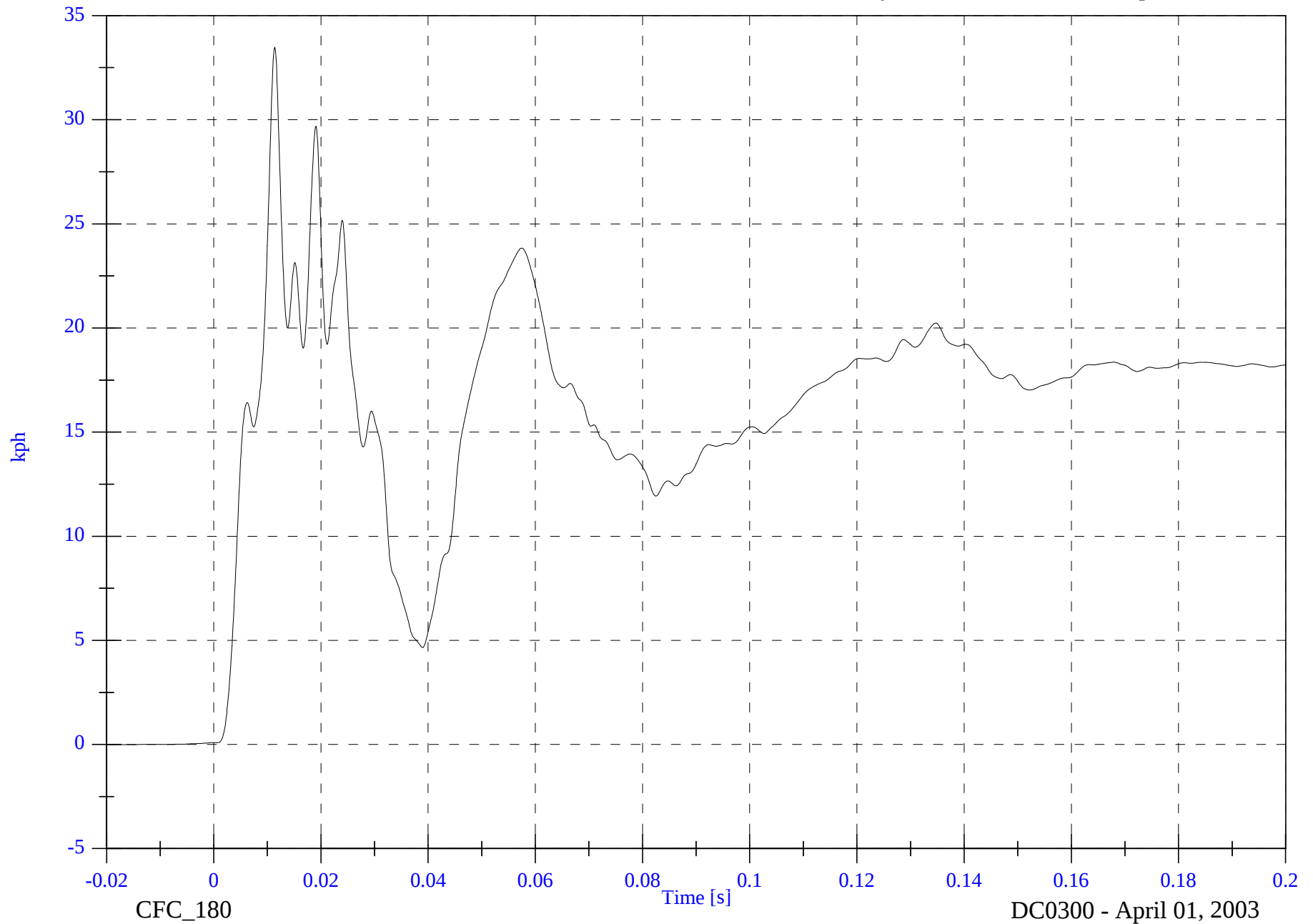


2004 Chrysler Pacifica Optional SNCAP

V2 A6 Left Front Door C/L Y Velocity

Max: 33.5 [kph] at 0.011 [s]

Min: -0.0 [kph] at -0.016 [s]



B-86

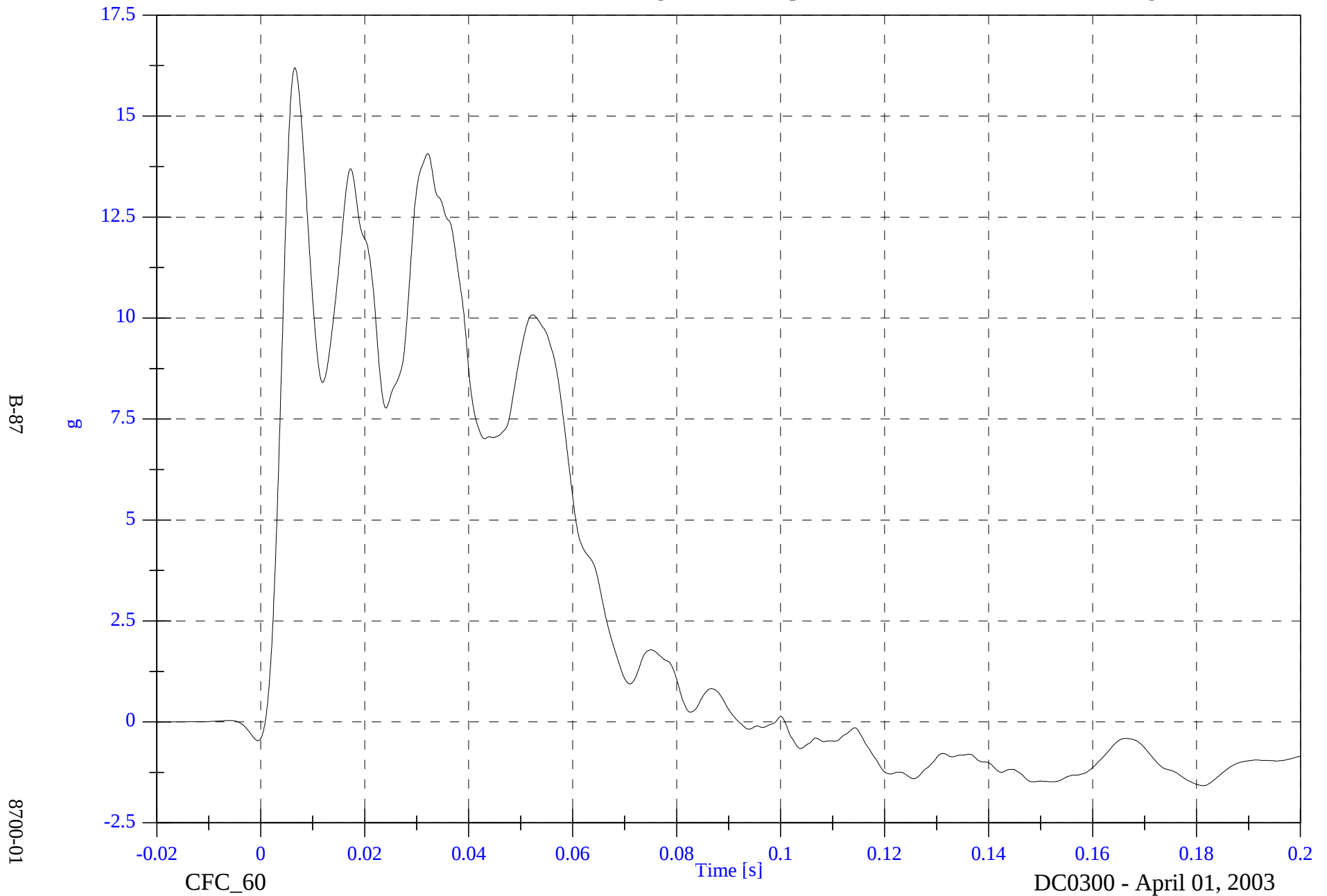
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A7 Right Rear Compartment Y

Max: 16.2 [g] at 0.007 [s]

Min: -1.6 [g] at 0.181 [s]

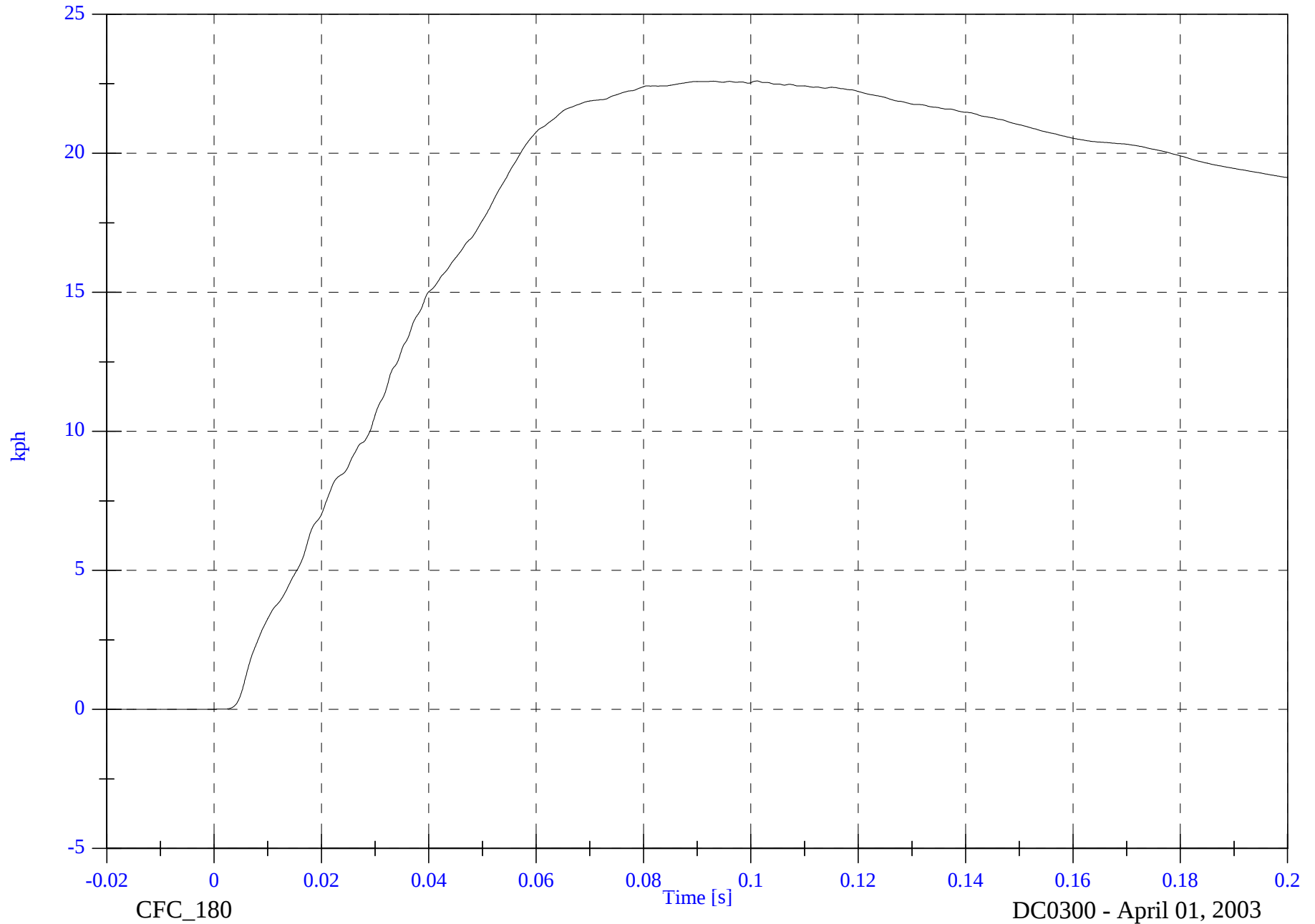


2004 Chrysler Pacifica Optional SNCAP

V2 A7 Right Rear Compartment Y Velocity

Max: 22.6 [kph] at 0.101 [s]

Min: -0.0 [kph] at -0.017 [s]



B-88

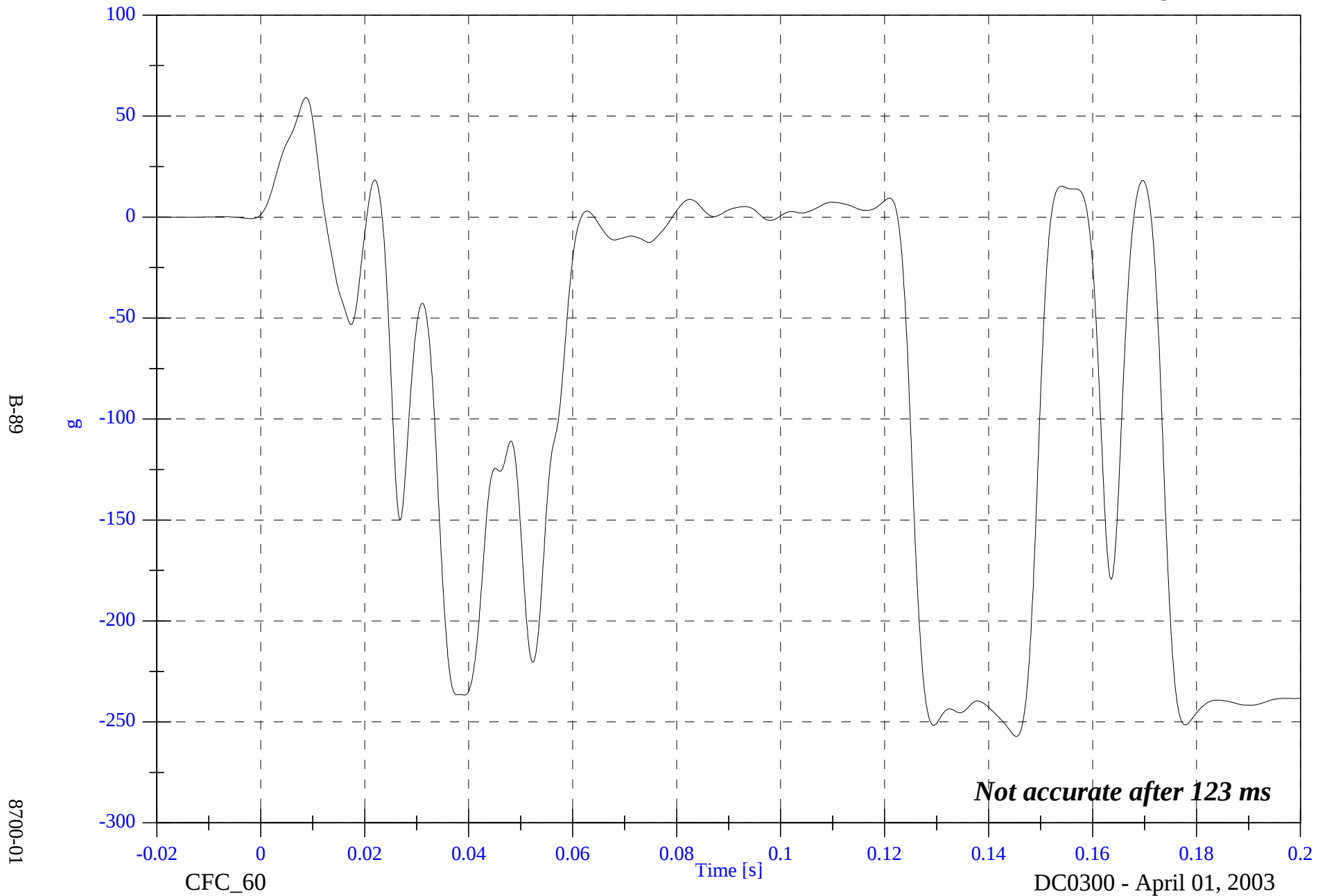
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A8 Left Front Door Midrear Y

Max: 59.2 [g] at 0.009 [s]

Min: -257.2 [g] at 0.145 [s]

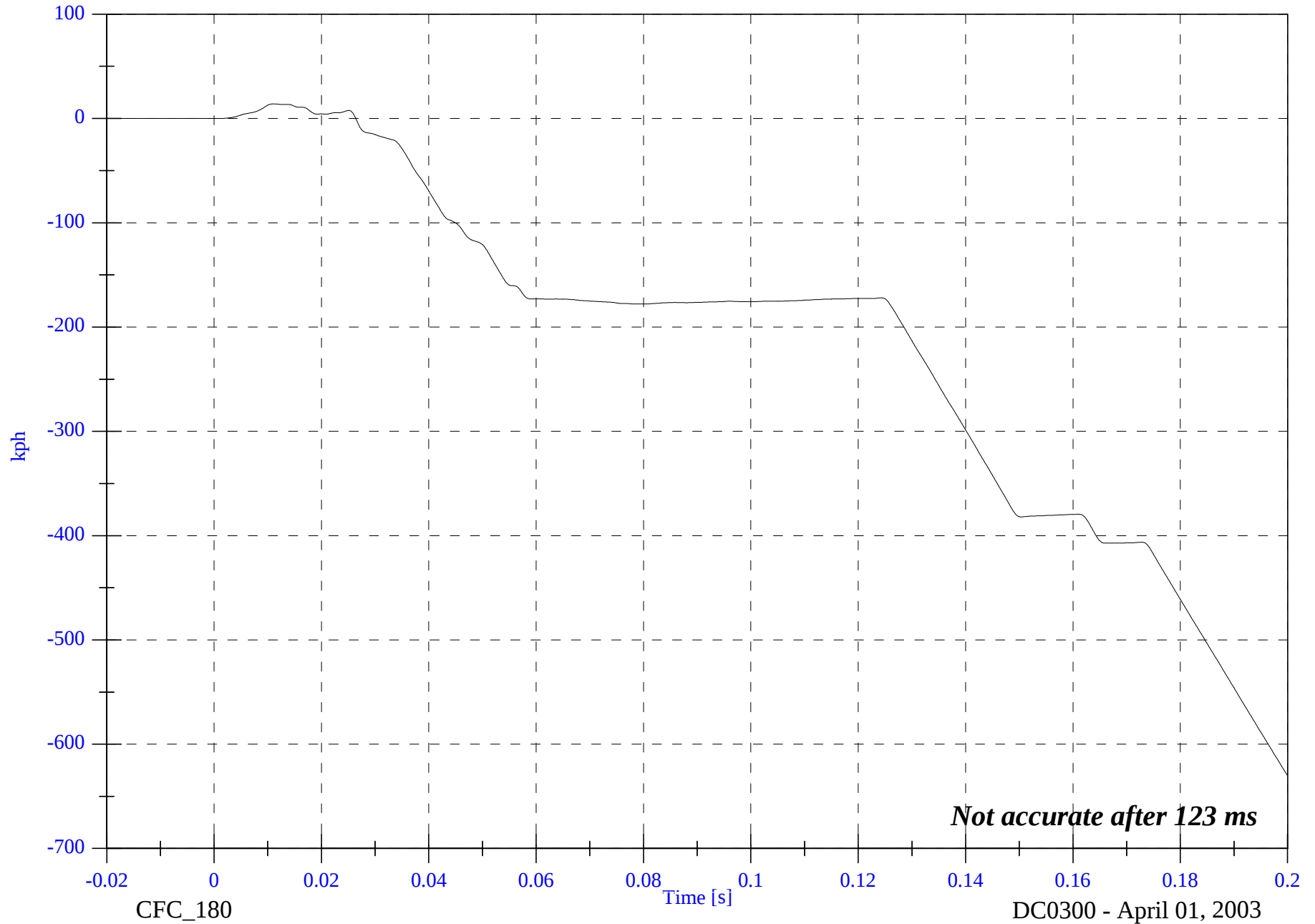


2004 Chrysler Pacifica Optional SNCAP

V2 A8 Left Front Door Midrear Y Velocity

Max: 14.0 [kph] at 0.011 [s]

Min: -629.7 [kph] at 0.200 [s]

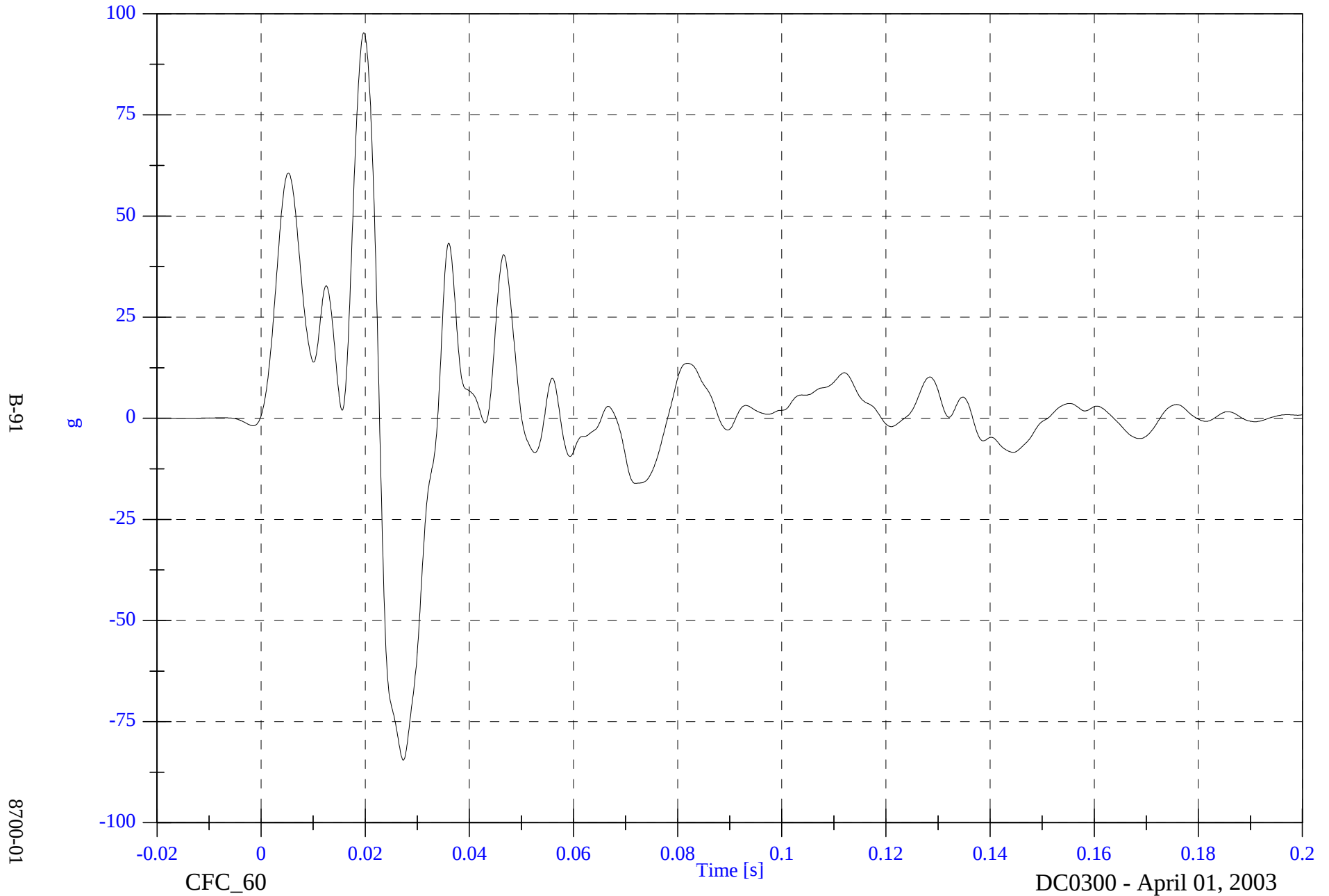


2004 Chrysler Pacifica Optional SNCAP

V2 A9 Left Front Door Upper C/L Y

Max: 95.3 [g] at 0.020 [s]

Min: -84.5 [g] at 0.027 [s]



2004 Chrysler Pacifica Optional SNCAP

V2 A9 Left Front Door Upper C/L Y Velocity

Max: 32.8 [kph] at 0.023 [s]

Min: -0.0 [kph] at -0.019 [s]



B-92

8700-01

CFC_180

Time [s]

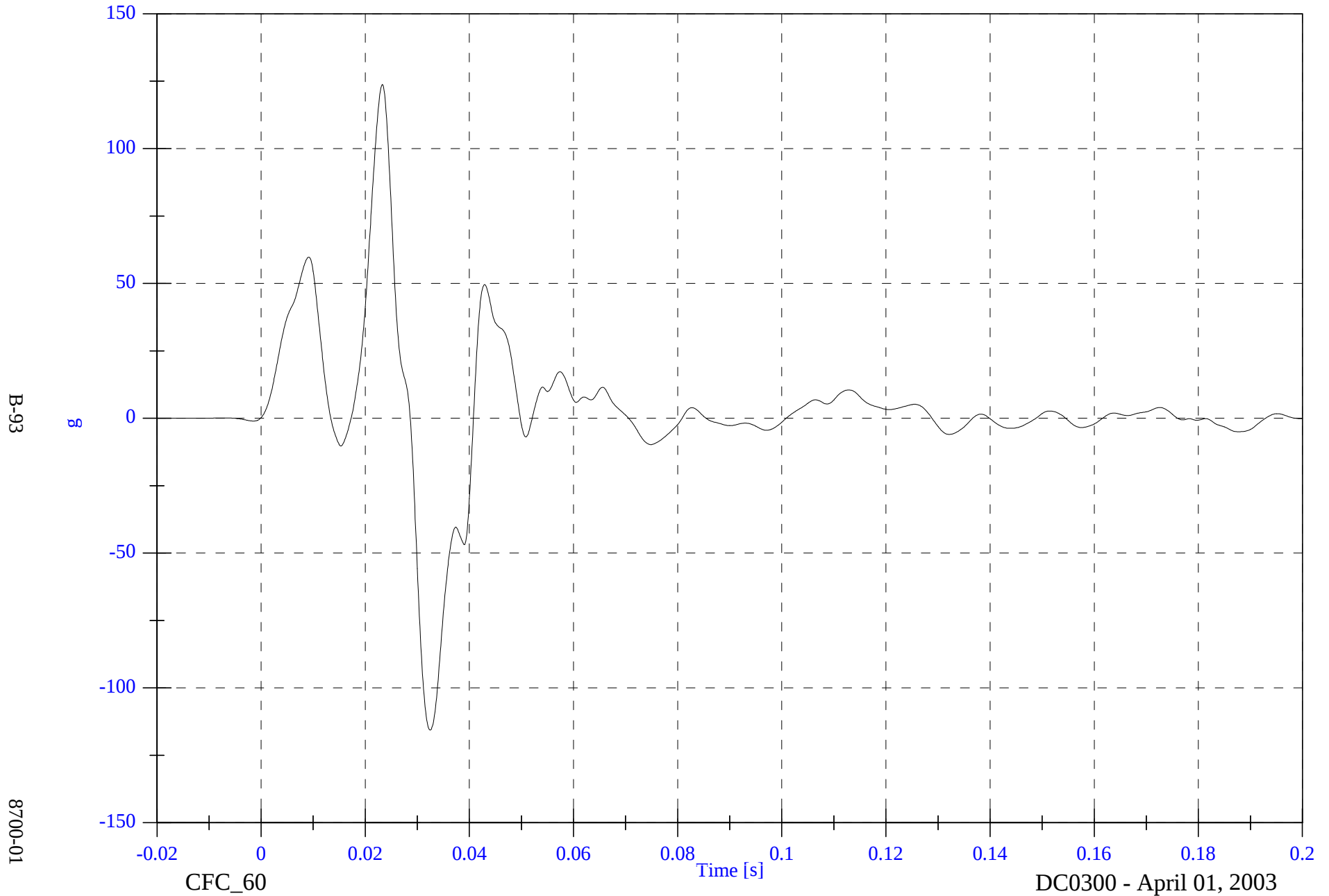
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2 A10 Left Rear Door Midrear Y

Max: 123.8 [g] at 0.023 [s]

Min: -115.6 [g] at 0.032 [s]



2004 Chrysler Pacifica Optional SBCAP

V2 A10 Left Rear Door Midrear Y Velocity

Max: 38.2 [kph] at 0.029 [s]

Min: -0.0 [kph] at -0.017 [s]



B-94

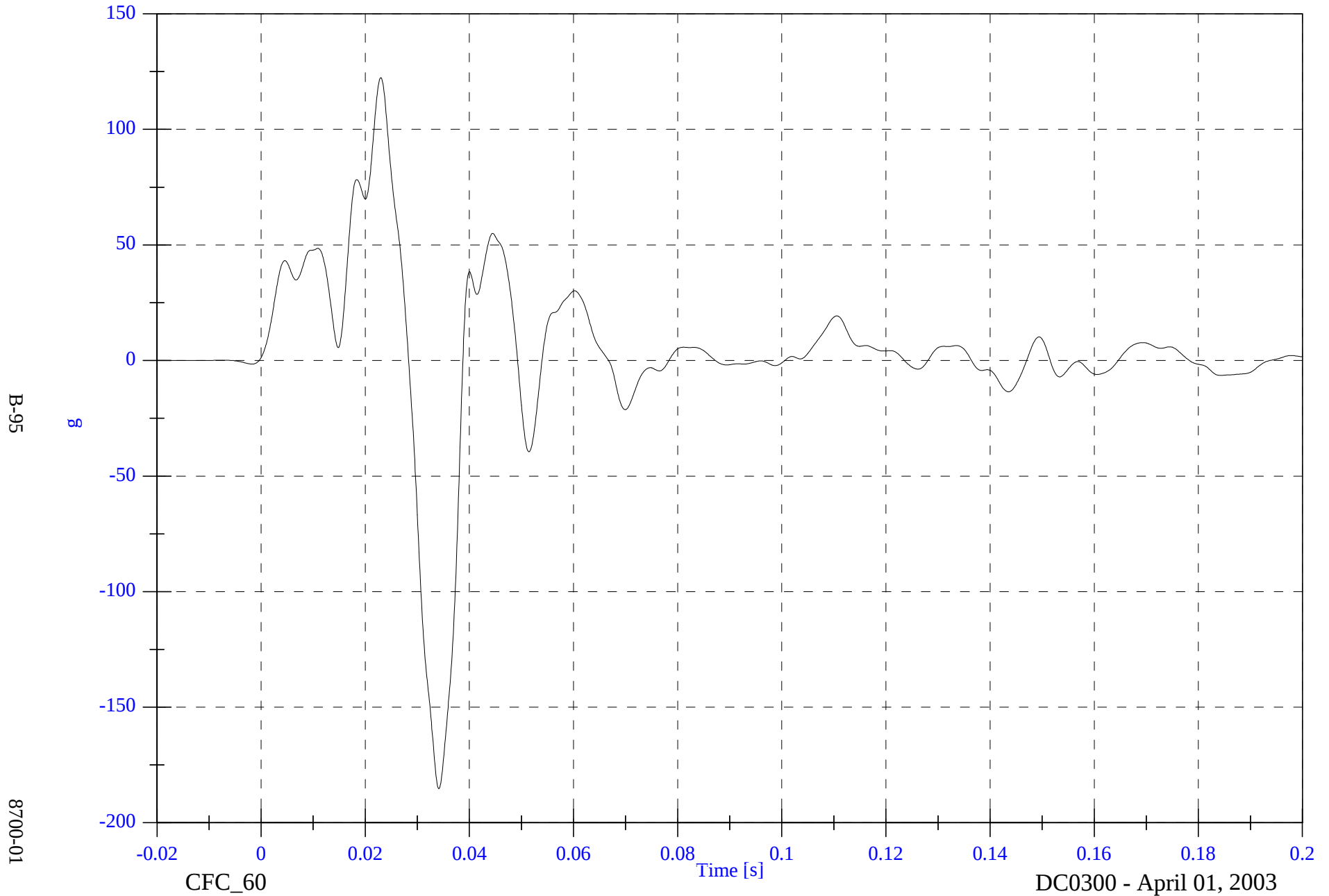
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A11 Left Rear Door Upper C/L Y

Max: 122.4 [g] at 0.023 [s]

Min: -185.3 [g] at 0.034 [s]



2004 Chrysler Pacifica Optional SNCAP

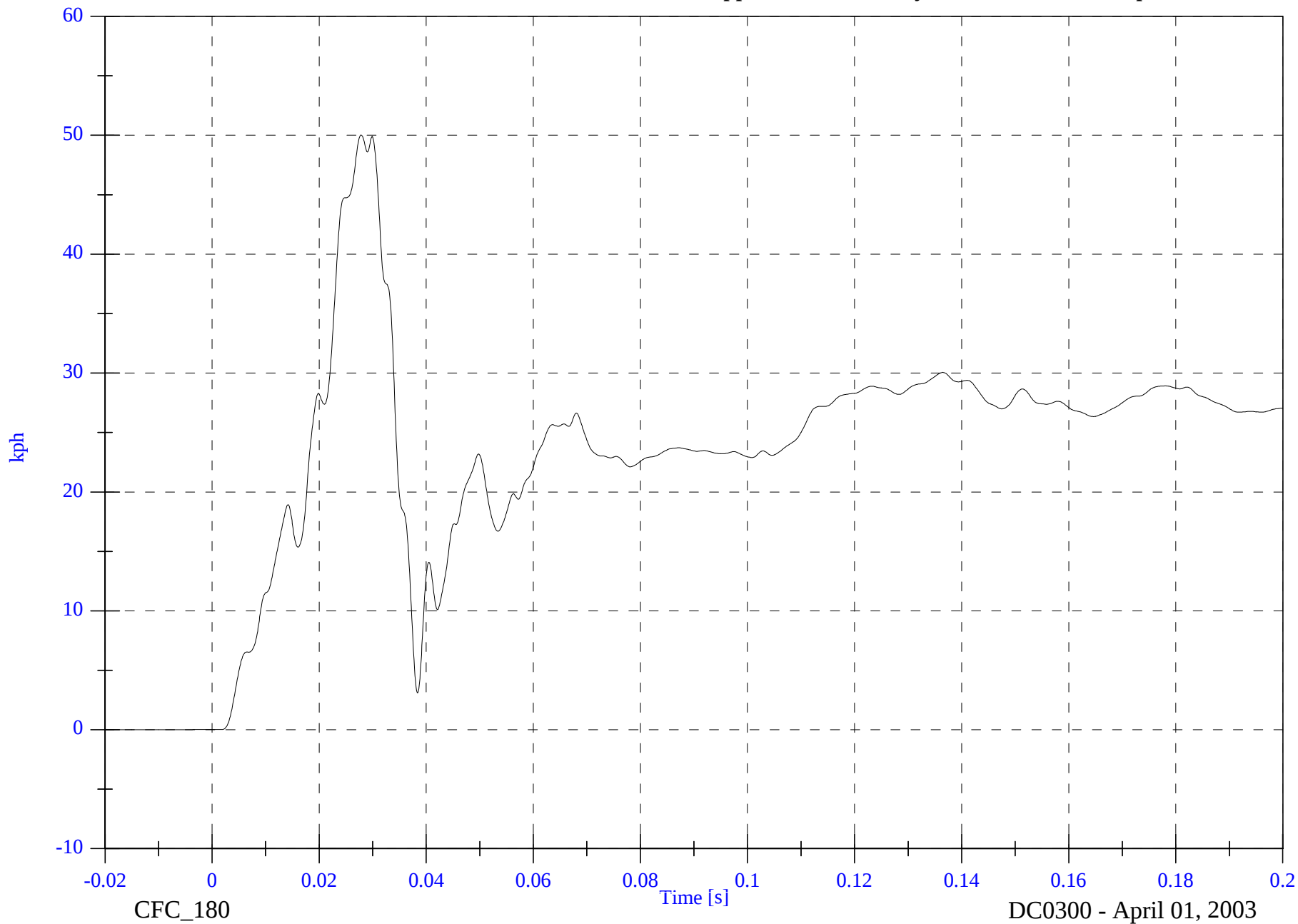
V2 A11 Left Rear Door Upper C/L Y Velocity

Max: 50.0 [kph] at 0.028 [s]

Min: -0.0 [kph] at -0.020 [s]

B-96

8700-01

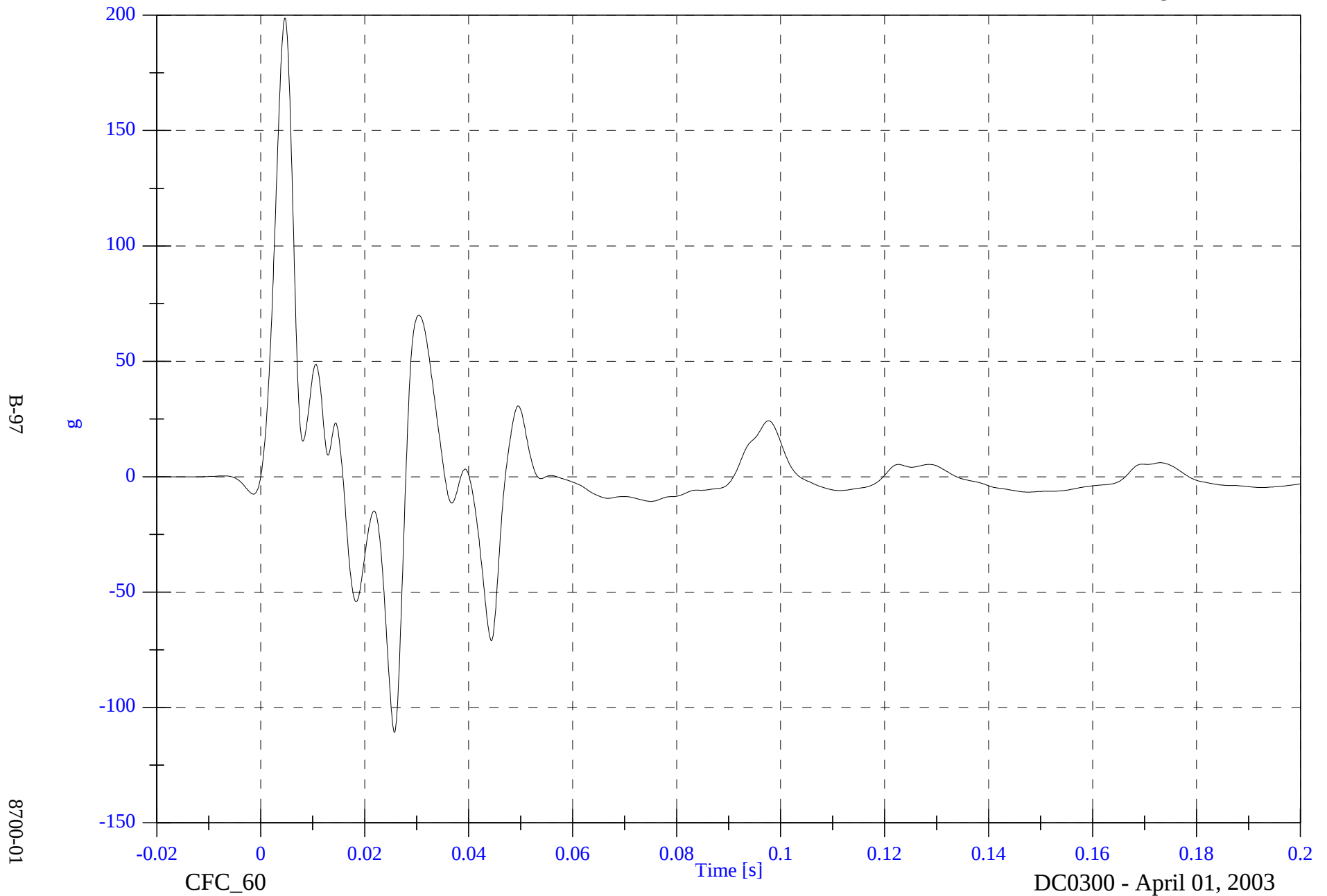


2004 Chrysler Pacifica Optional SNCAP

V2 A12 Left Lower B Post Y

Max: 198.7 [g] at 0.005 [s]

Min: -110.8 [g] at 0.026 [s]

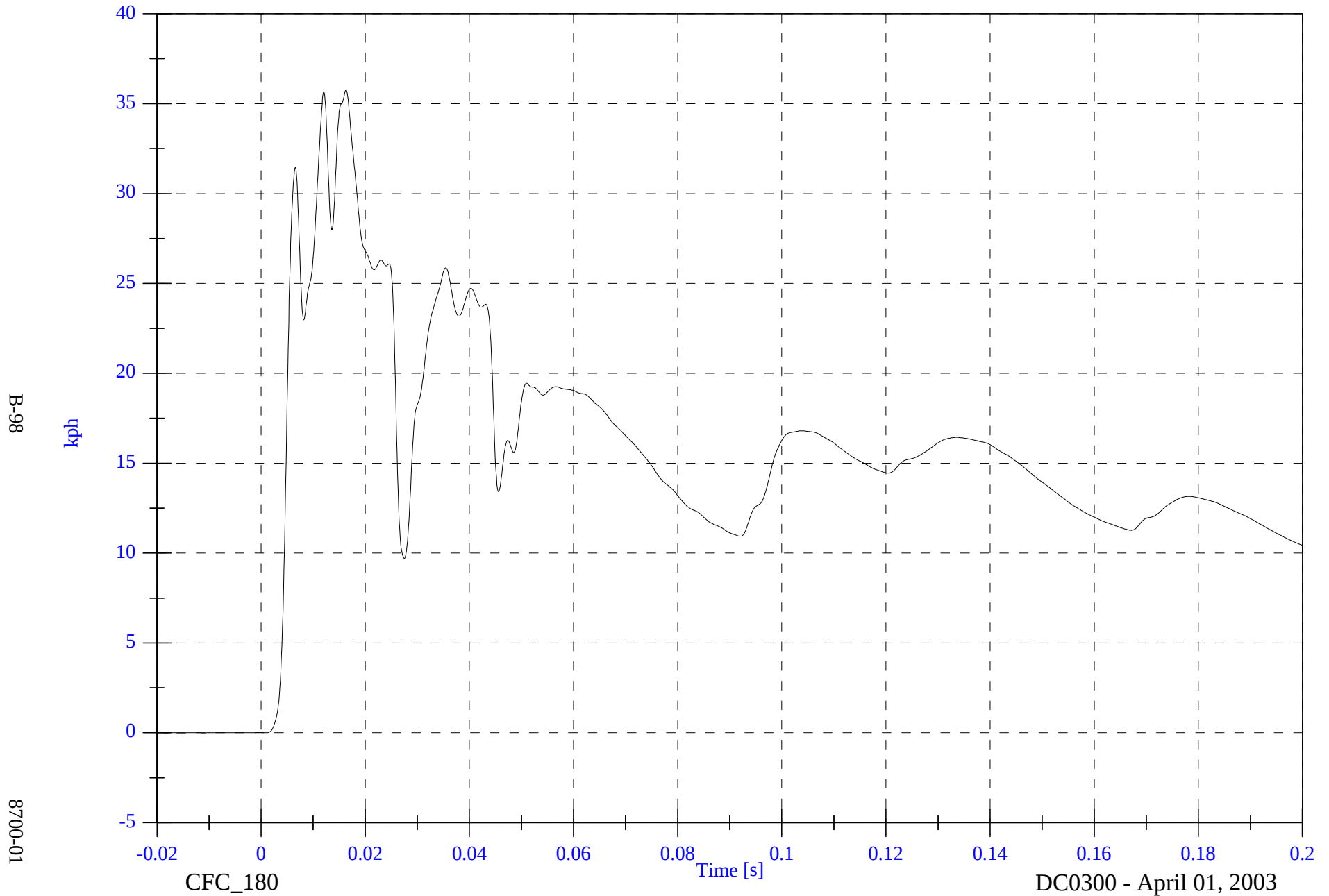


2004 Chrysler Pacifica Optional SNCAP

V2 A12 Left Lower B Post Y Velocity

Max: 35.8 [kph] at 0.016 [s]

Min: -0.0 [kph] at -0.015 [s]

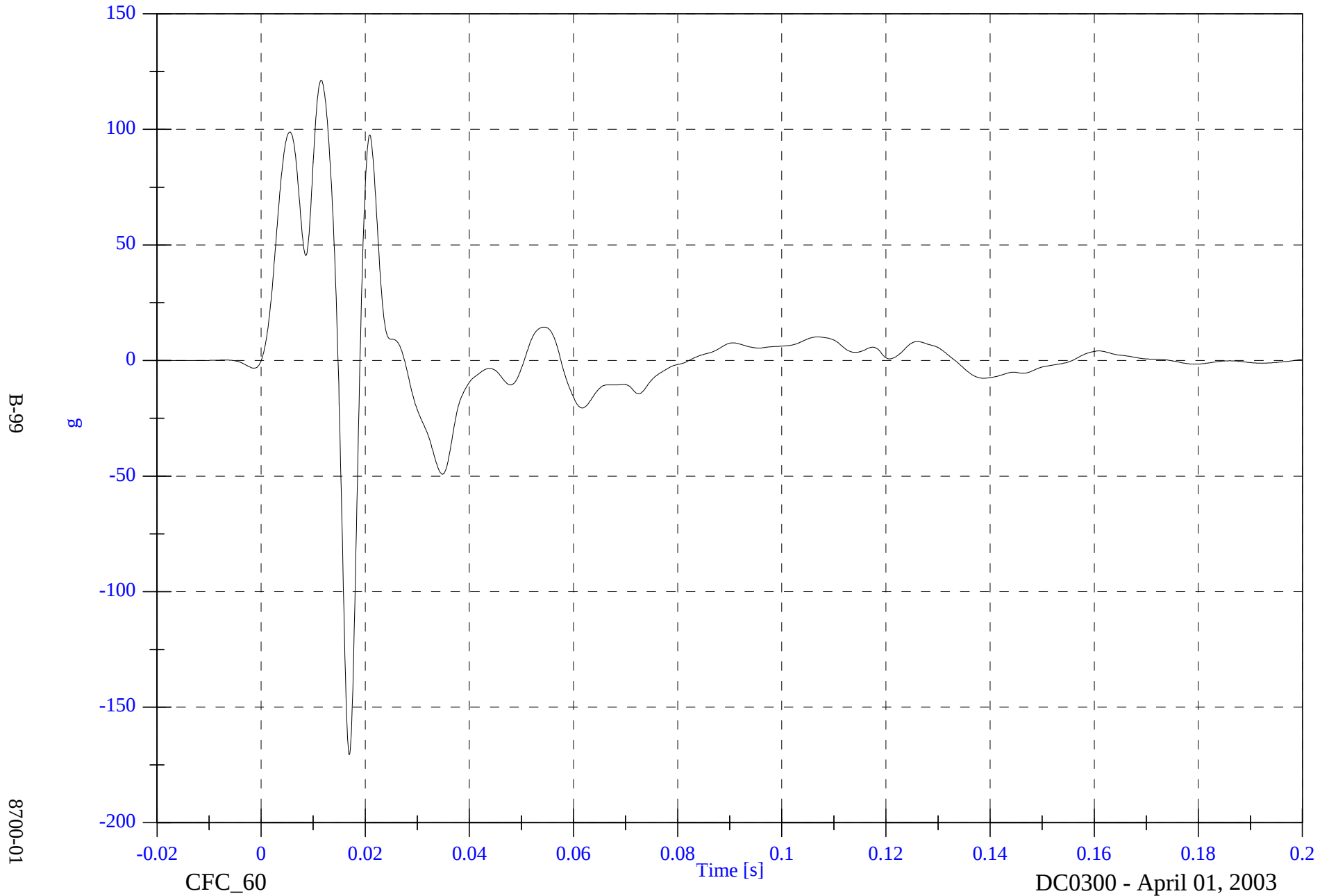


2004 Chrysler Pacifica Optional SNCAP

V2 A13 Left Mid B Post Y

Max: 121.2 [g] at 0.011 [s]

Min: -170.5 [g] at 0.017 [s]

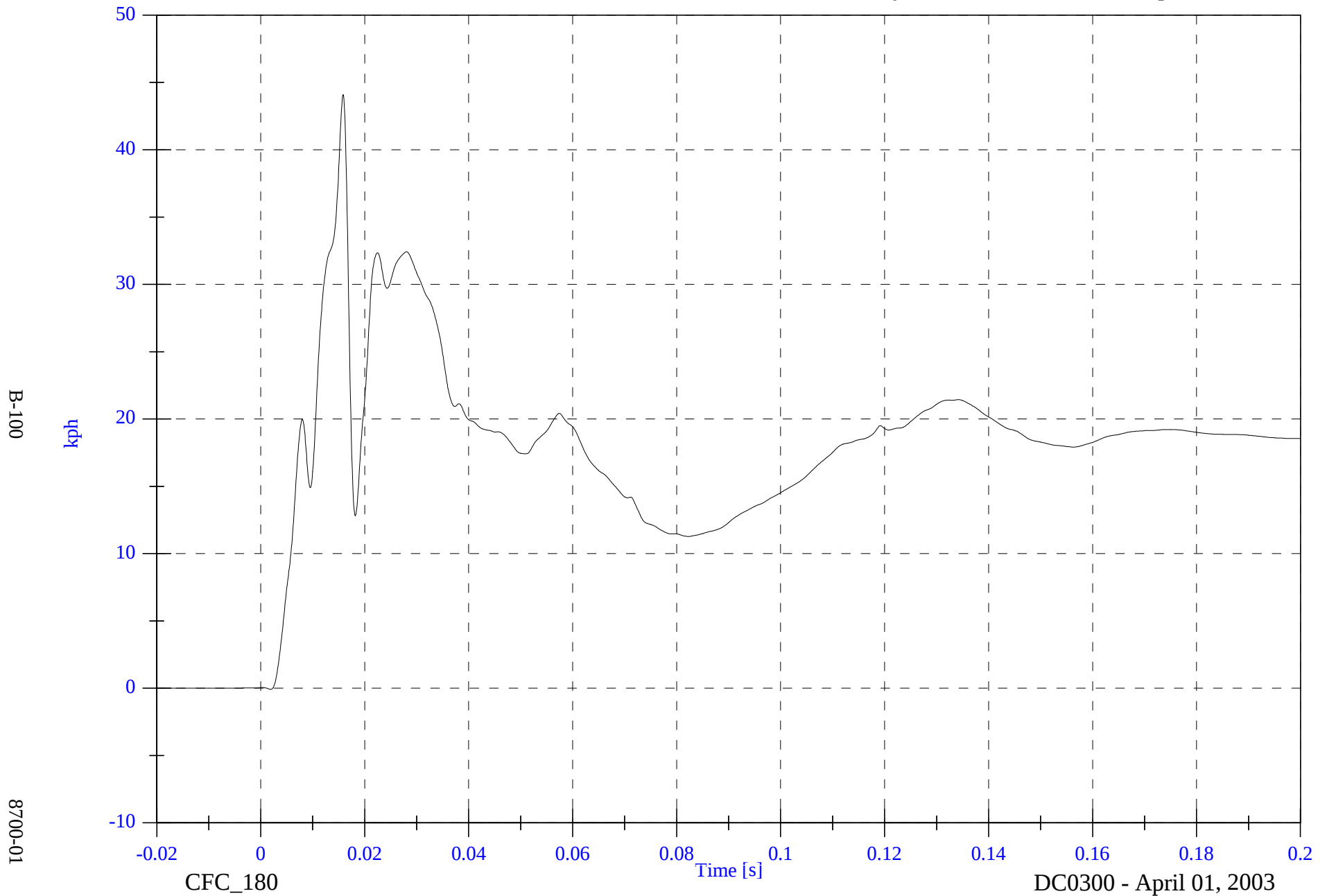


2004 Chrysler Pacifica Optional SNCAP

V2 A13 Left Mid B Post Y Velocity

Max: 44.1 [kph] at 0.016 [s]

Min: -0.1 [kph] at 0.002 [s]

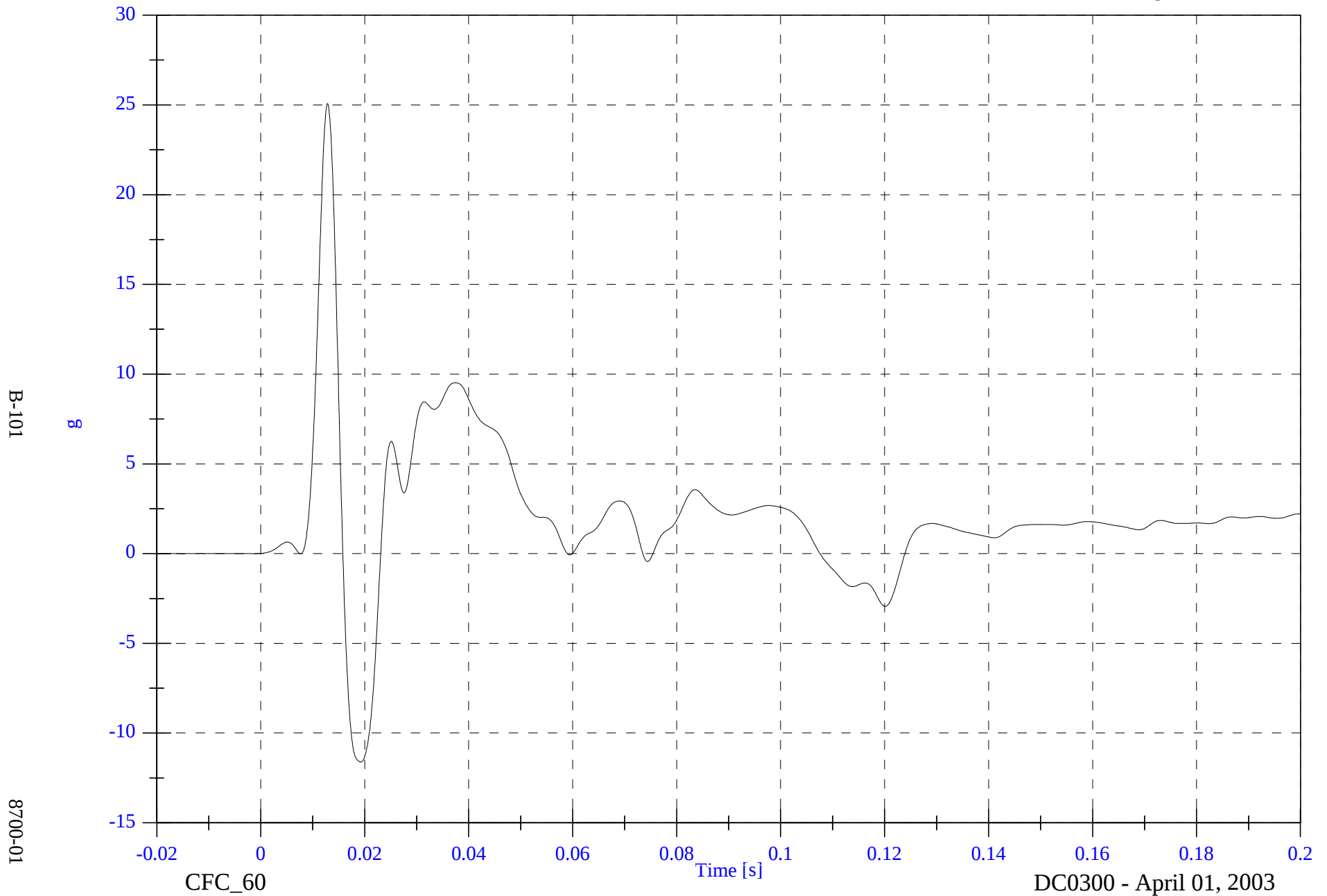


2004 Chrysler Pacifica Optional SBCAP

V2 A14 Left Lower A Post Y

Max: 25.1 [g] at 0.013 [s]

Min: -11.6 [g] at 0.019 [s]

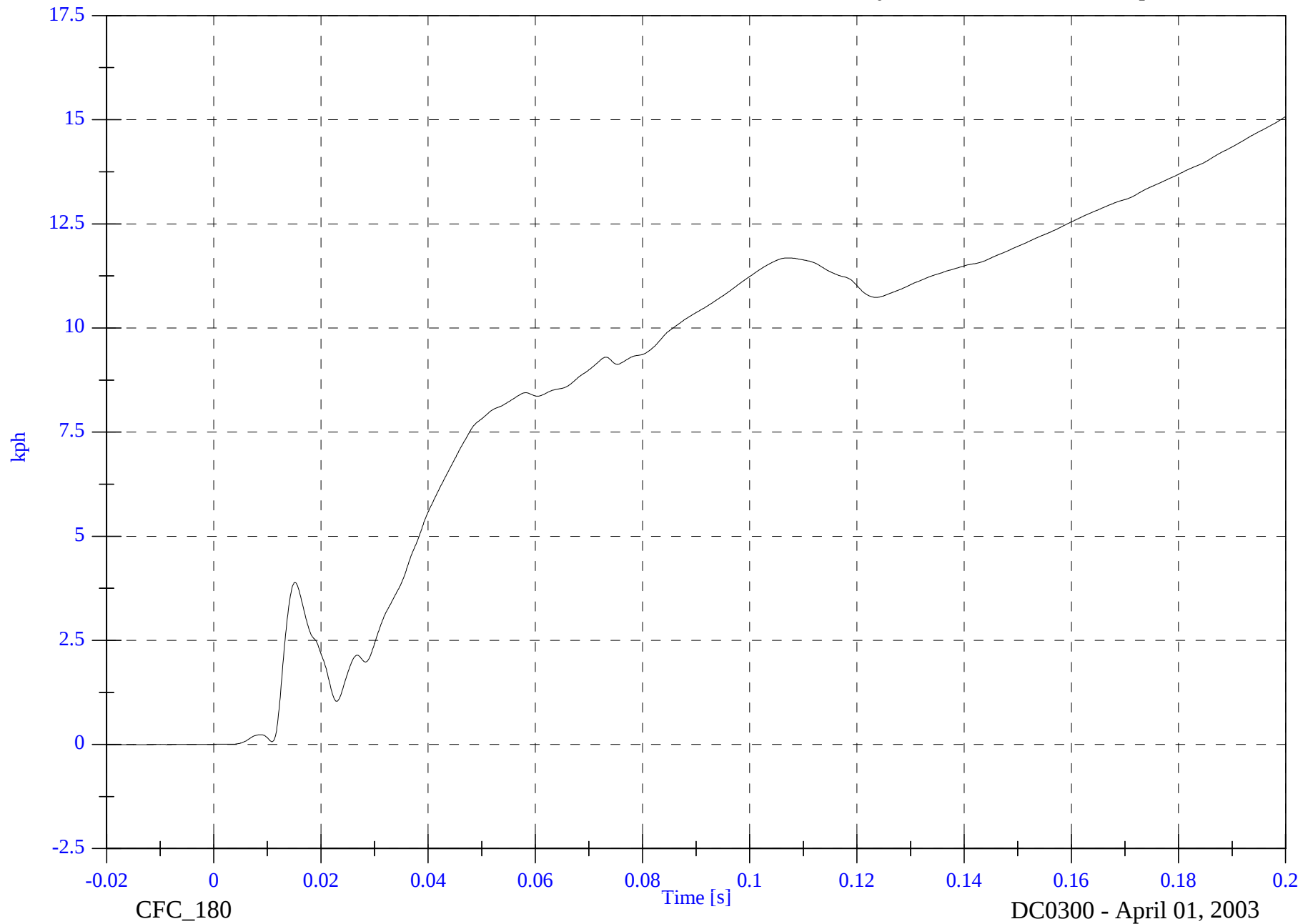


2004 Chrysler Pacifica Optional SNCAP

V2 A14 Left Lower A Post Y Velocity

Max: 15.1 [kph] at 0.200 [s]

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



B-102

8700-01

CFC_180

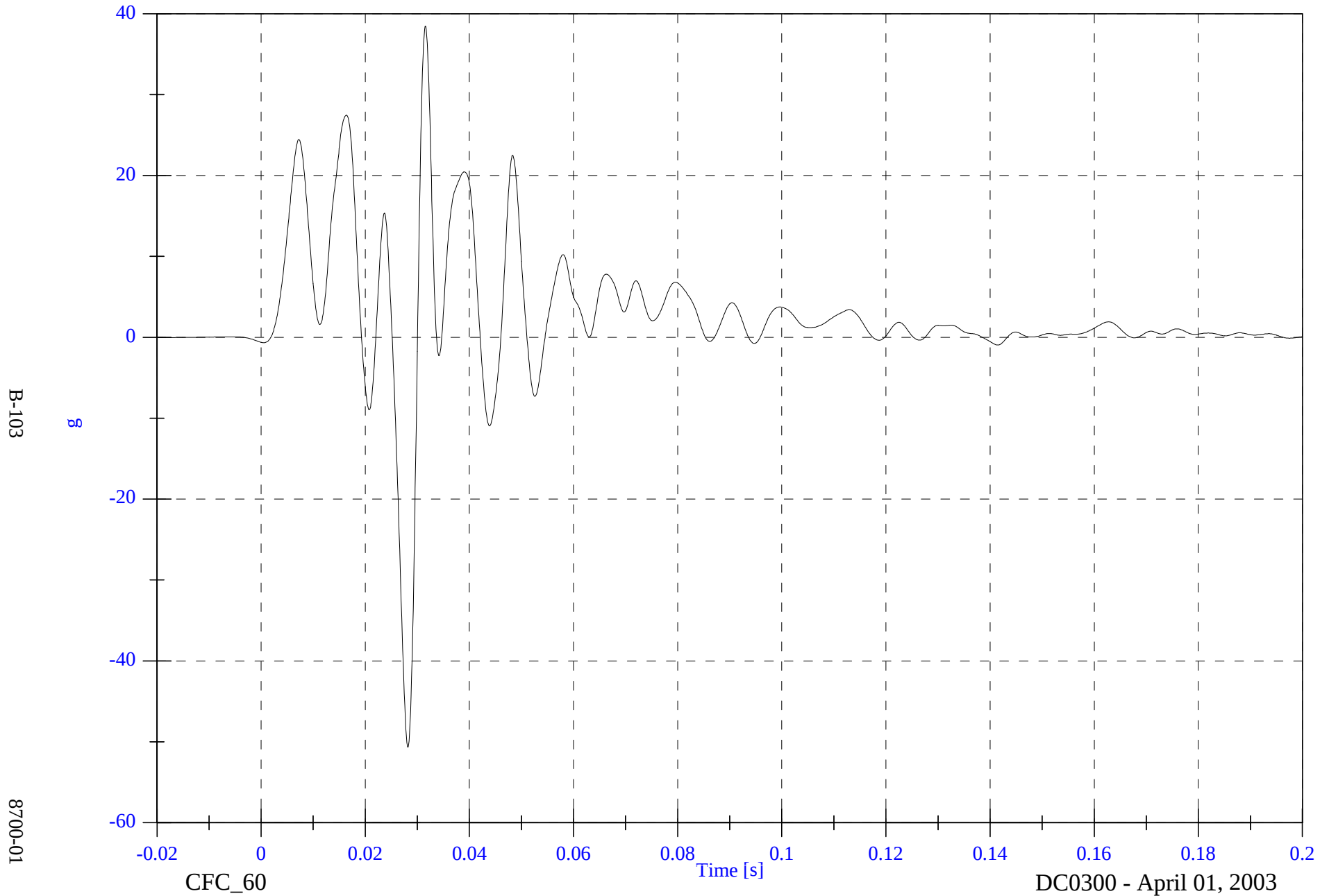
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2 A15 Left Mid A Post Y

Max: 38.5 [g] at 0.032 [s]

Min: -50.7 [g] at 0.028 [s]

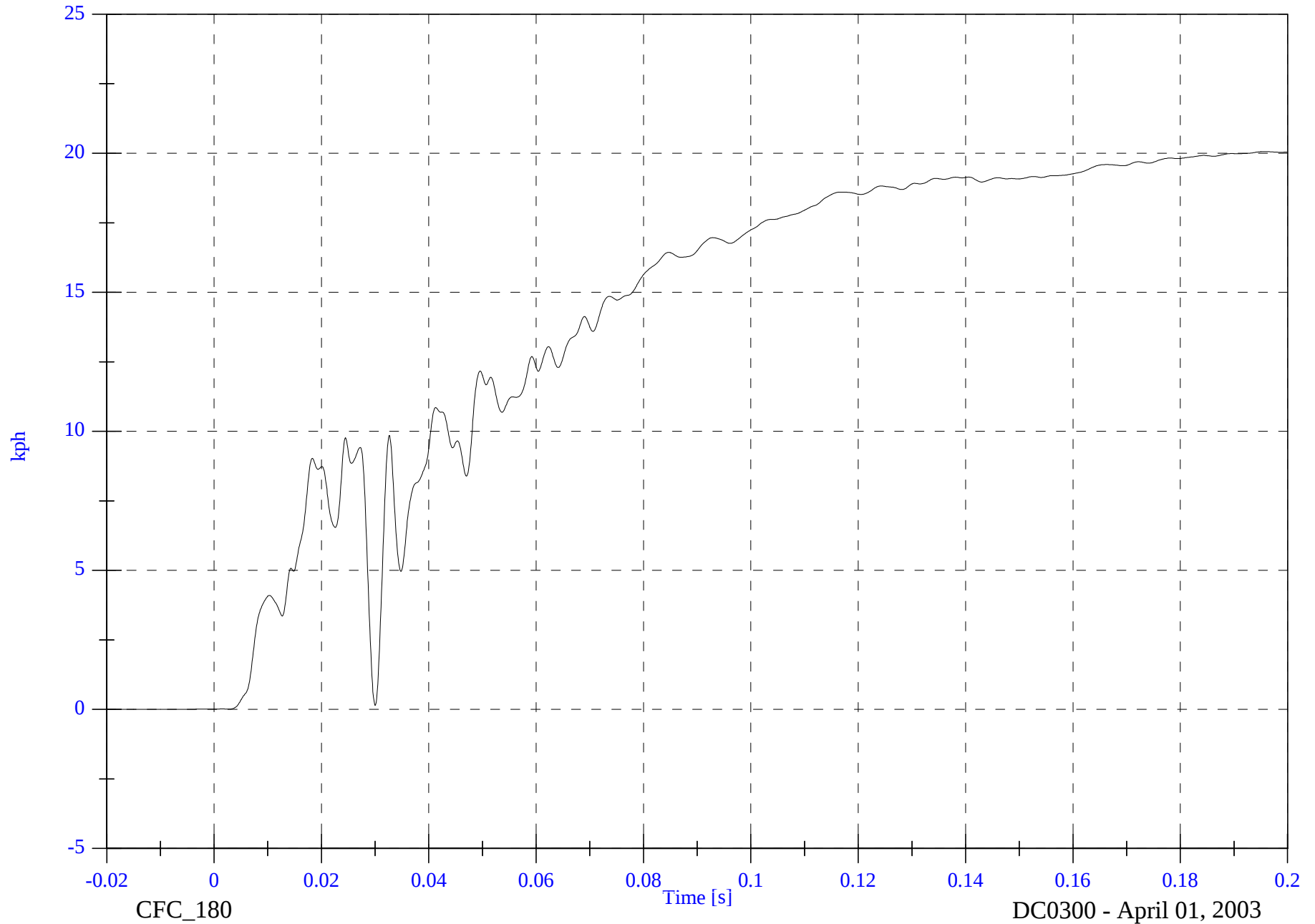


2004 Chrysler Pacifica Optional SNCAP

V2 A15 Left Mid A Post Y Velocity

Max: 20.1 [kph] at 0.196 [s]

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



B-104

8700-01

2004 Chrysler Pacifica Optional SNCAP

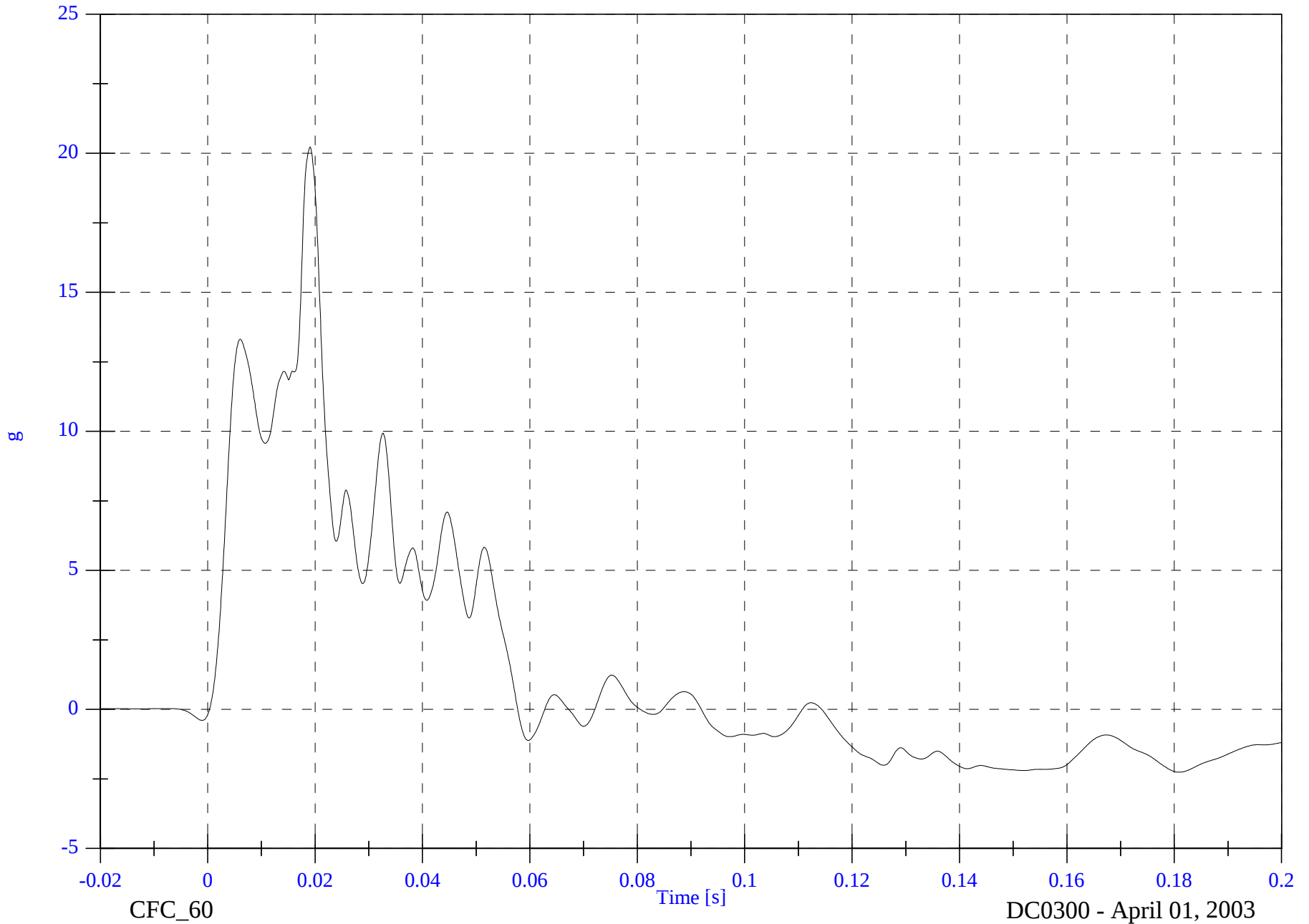
V2 A16 Front Seat Track Y

Max: 20.2 [g] at 0.019 [s]

Min: -2.3 [g] at 0.181 [s]

B-105

8700-01

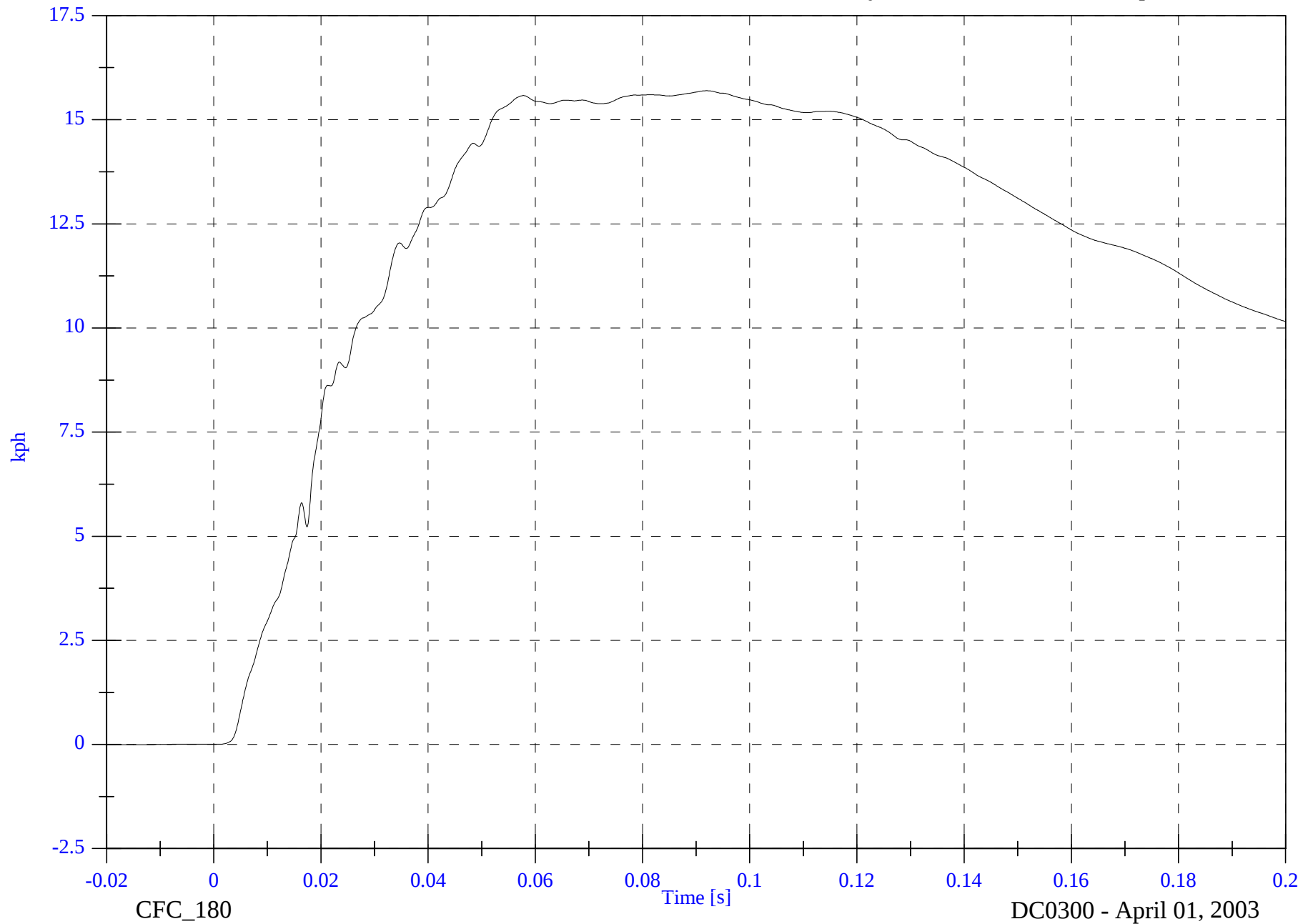


2004 Chrysler Pacifica Optional SNCAP

V2 A16 Front Seat Track Y Velocity

Max: 15.7 [kph] at 0.092 [s]

Min: -0.0 [kph] at -0.020 [s]



B-106

8700-01

CFC_180

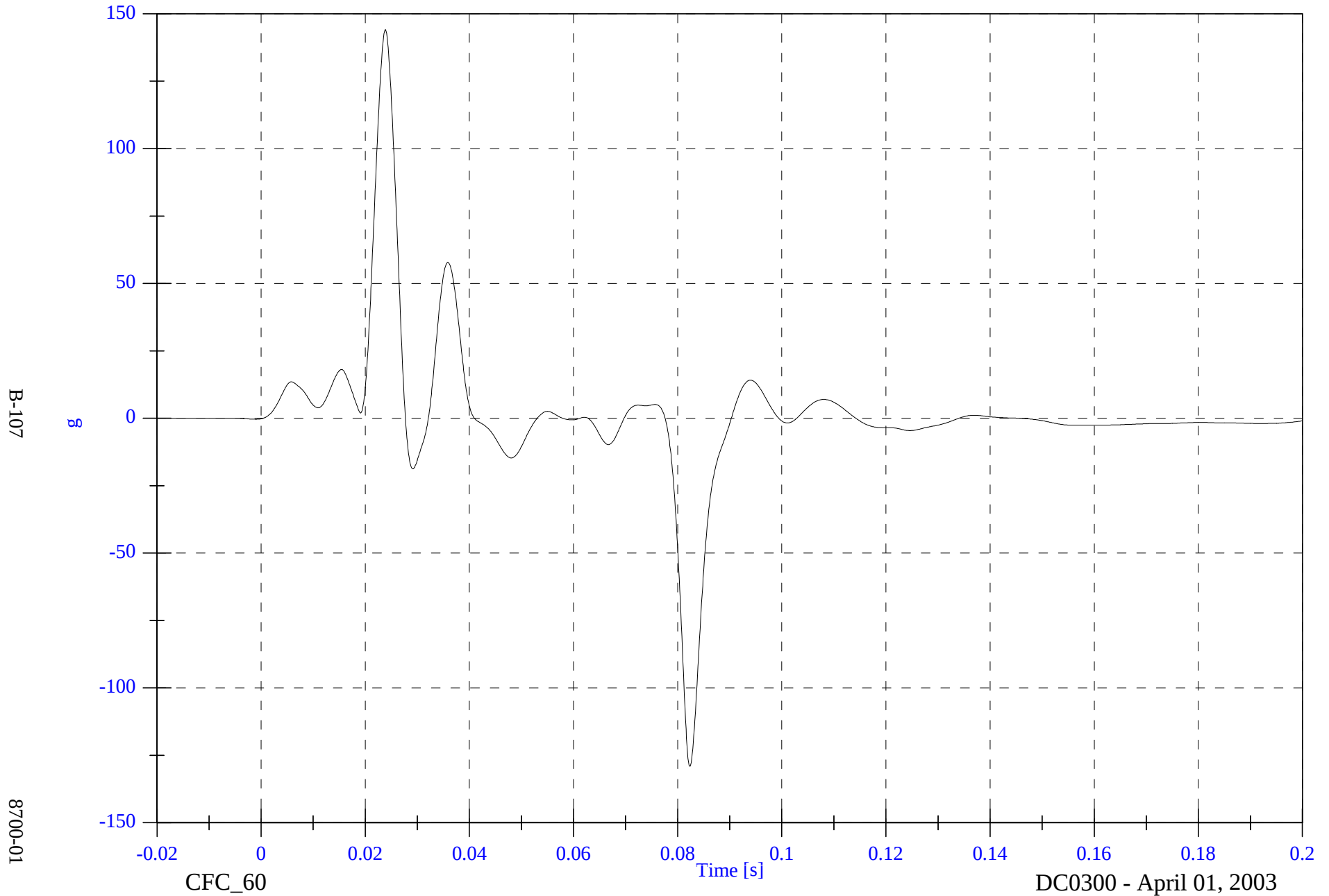
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V2 A17 Rear Seat Track Y

Max: 144.1 [g] at 0.024 [s]

Min: -129.1 [g] at 0.082 [s]

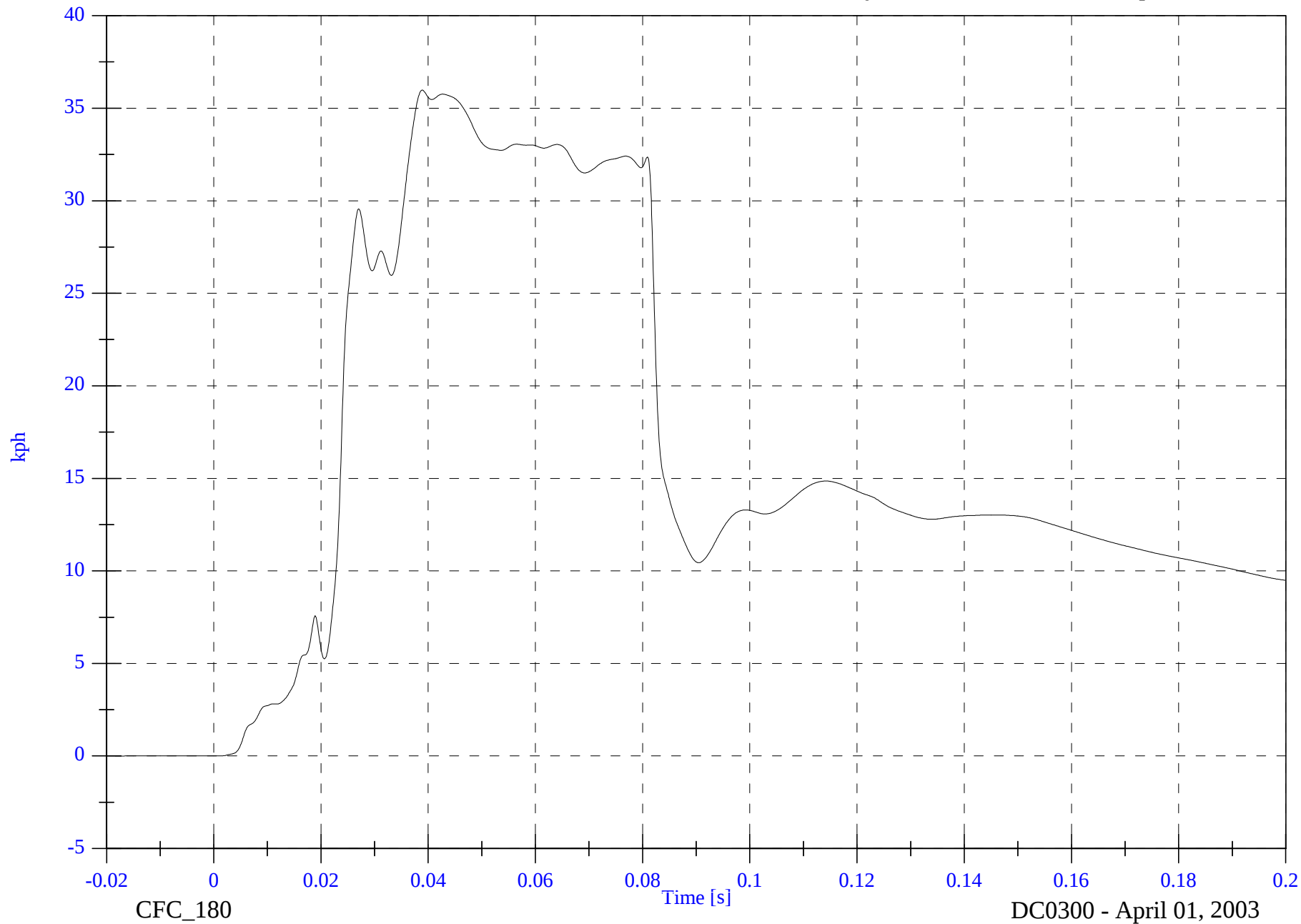


2004 Chrysler Pacifica Optional SNCAP

V2 A17 Rear Seat Track Y Velocity

Max: 36.0 [kph] at 0.039 [s]

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



B-108

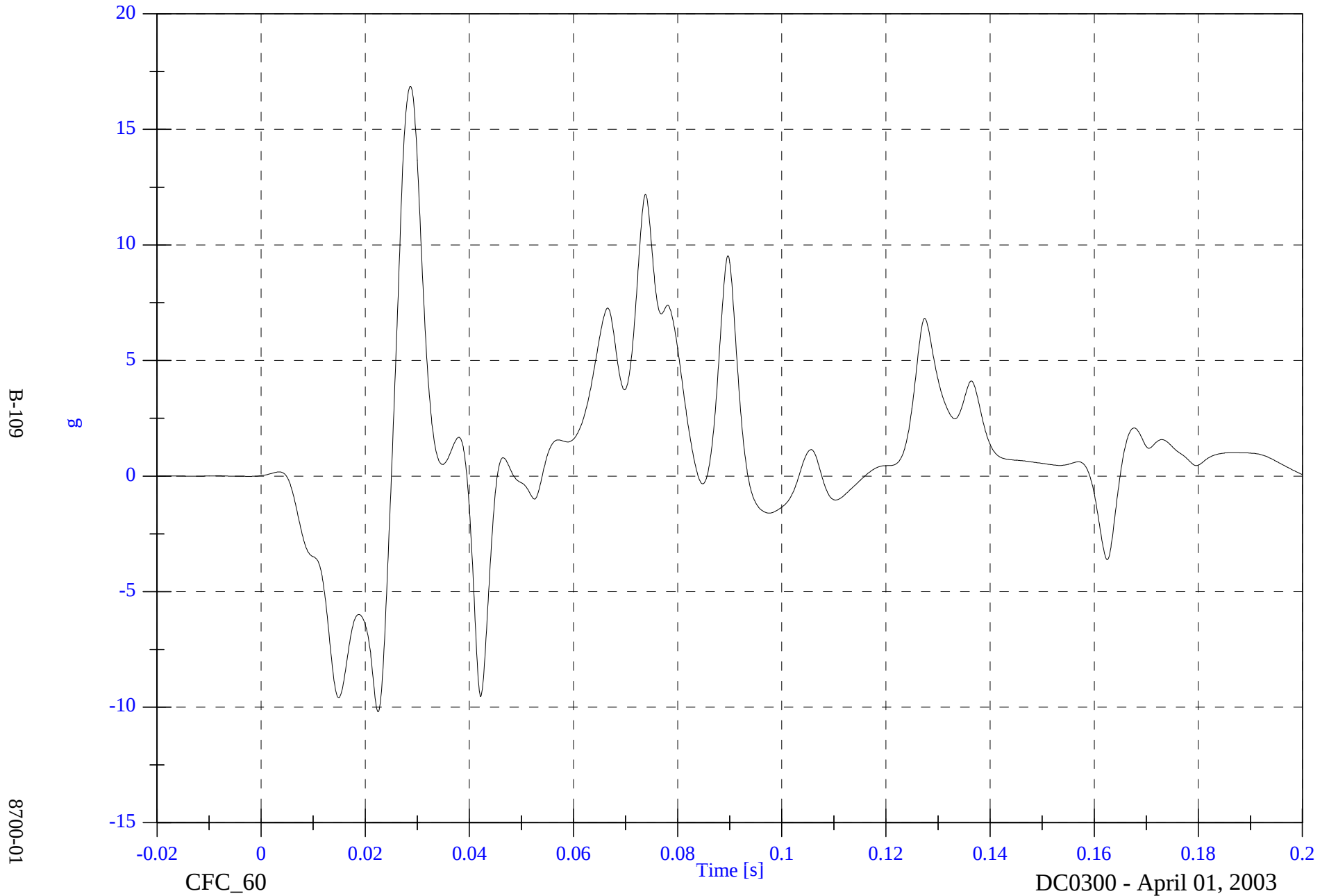
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A18 Target CG X

Max: 16.9 [g] at 0.029 [s]

Min: -10.2 [g] at 0.022 [s]



2004 Chrysler Pacifica Optional SNCAP

V2 A18 Target CG X Velocity

Max: 7.3 [kph] at 0.200 [s]

Min: -4.1 [kph] at 0.024 [s]



B-110

8700-01

CFC_180

DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

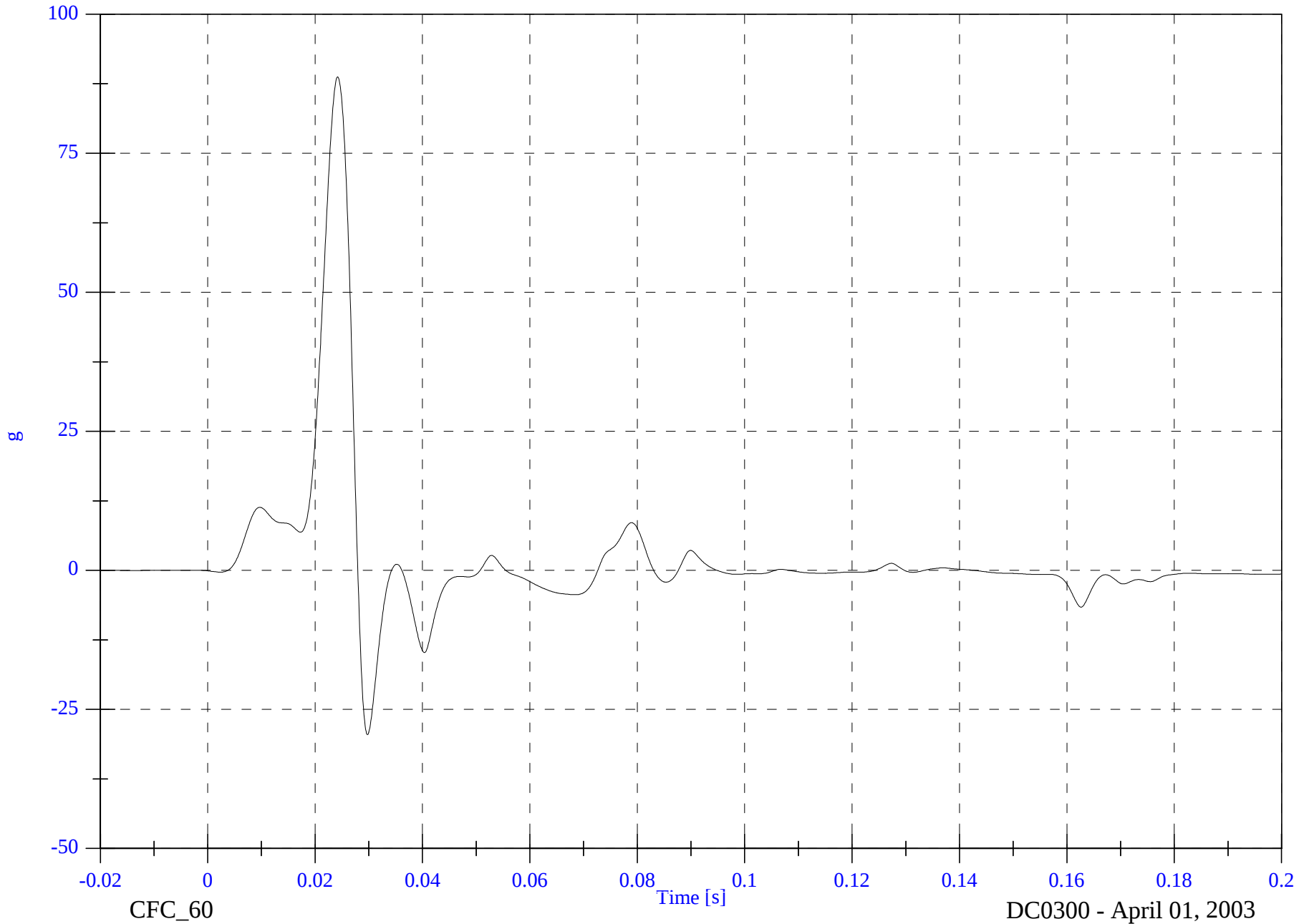
V2 A18 Target CG Y

Max: 88.7 [g] at 0.024 [s]

Min: -29.5 [g] at 0.030 [s]

B-111

8700-01

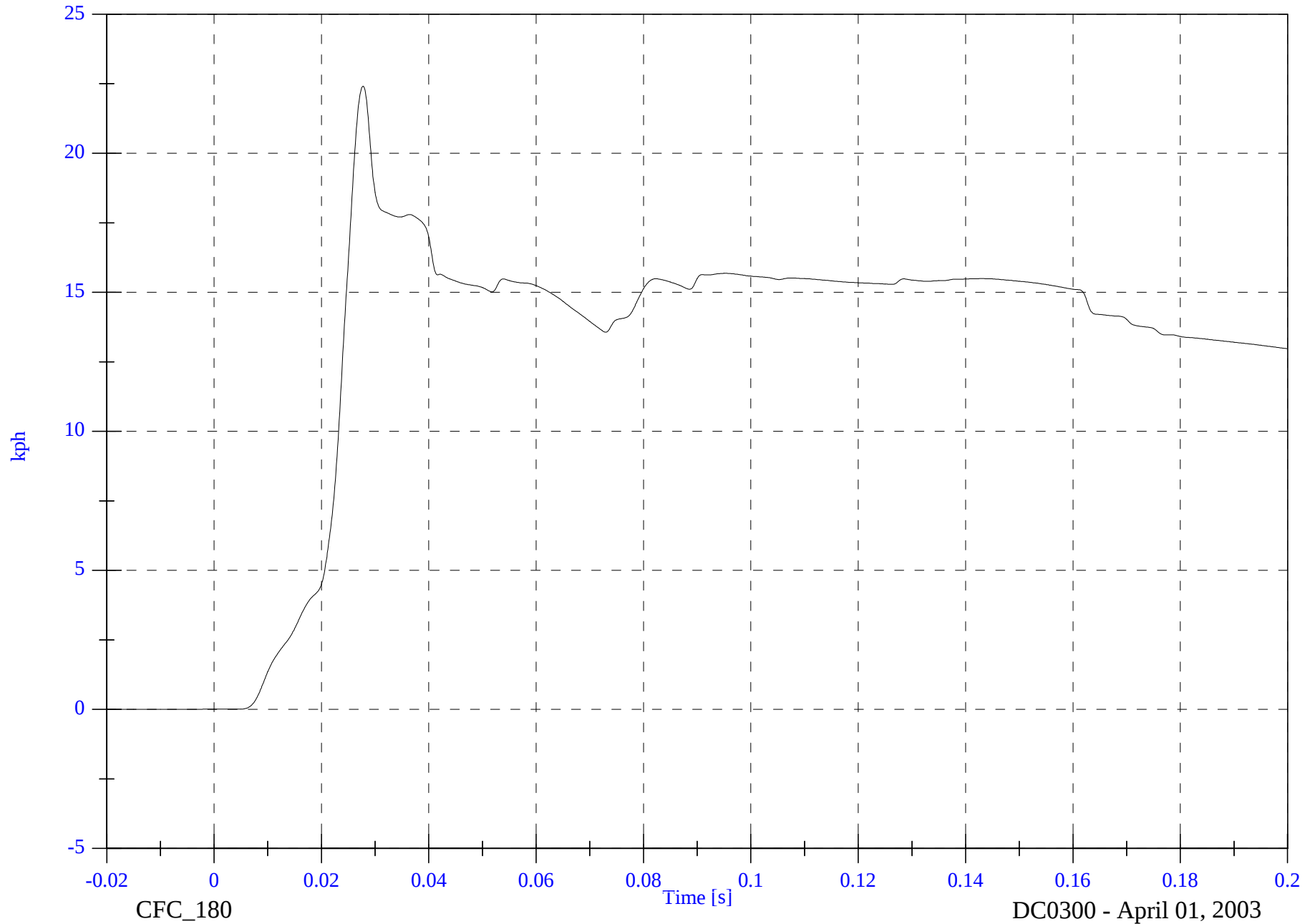


2004 Chrysler Pacifica Optional SNCAP

V2 A18 Target CG Y Velocity

Max: 22.4 [kph] at 0.028 [s]

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



B-112

8700-01

2004 Chrysler Pacifica Optional SNCAP

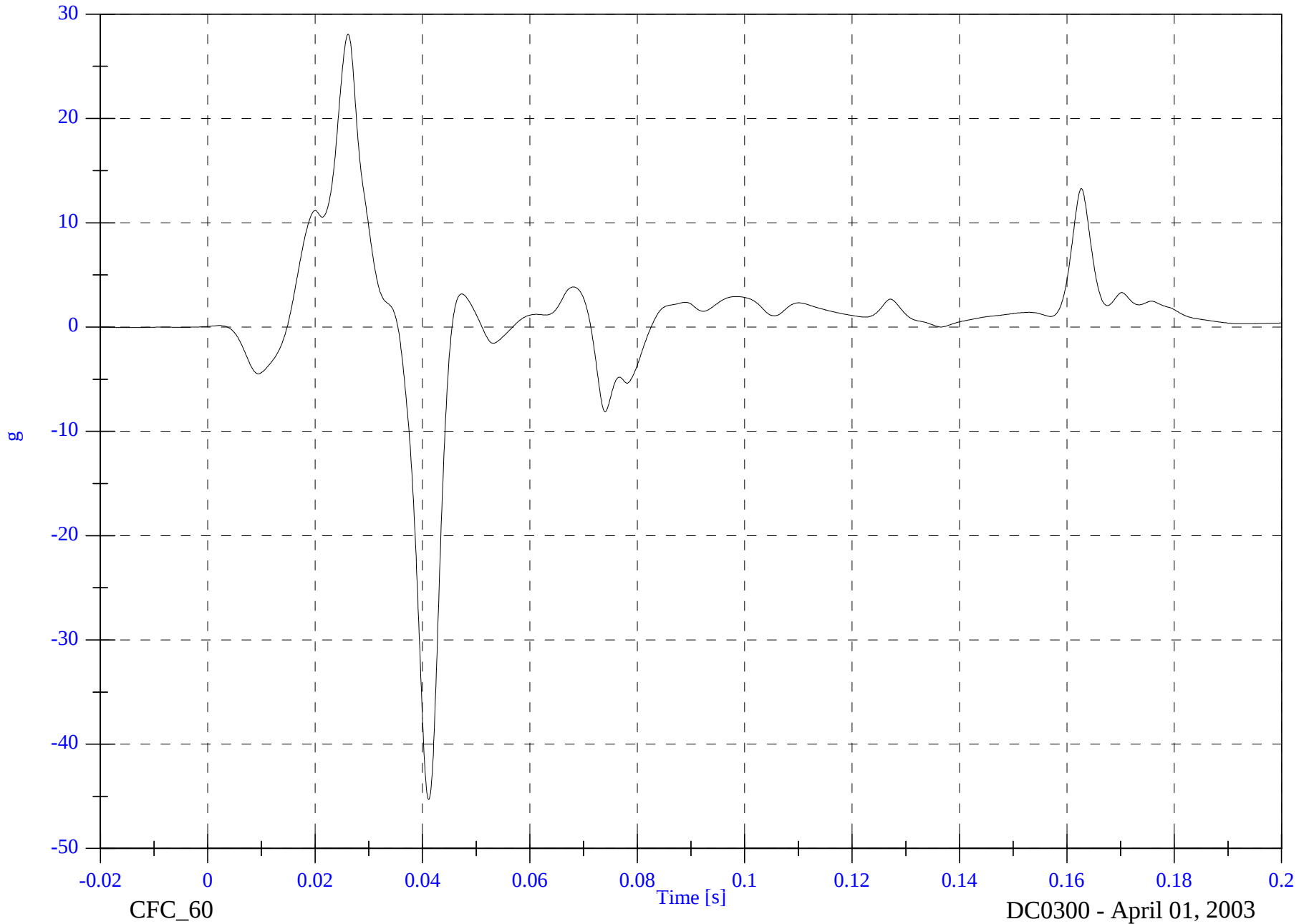
V2 A18 Target CG Z

Max: 28.1 [g] at 0.026 [s]

Min: -45.3 [g] at 0.041 [s]

B-113

8700-01

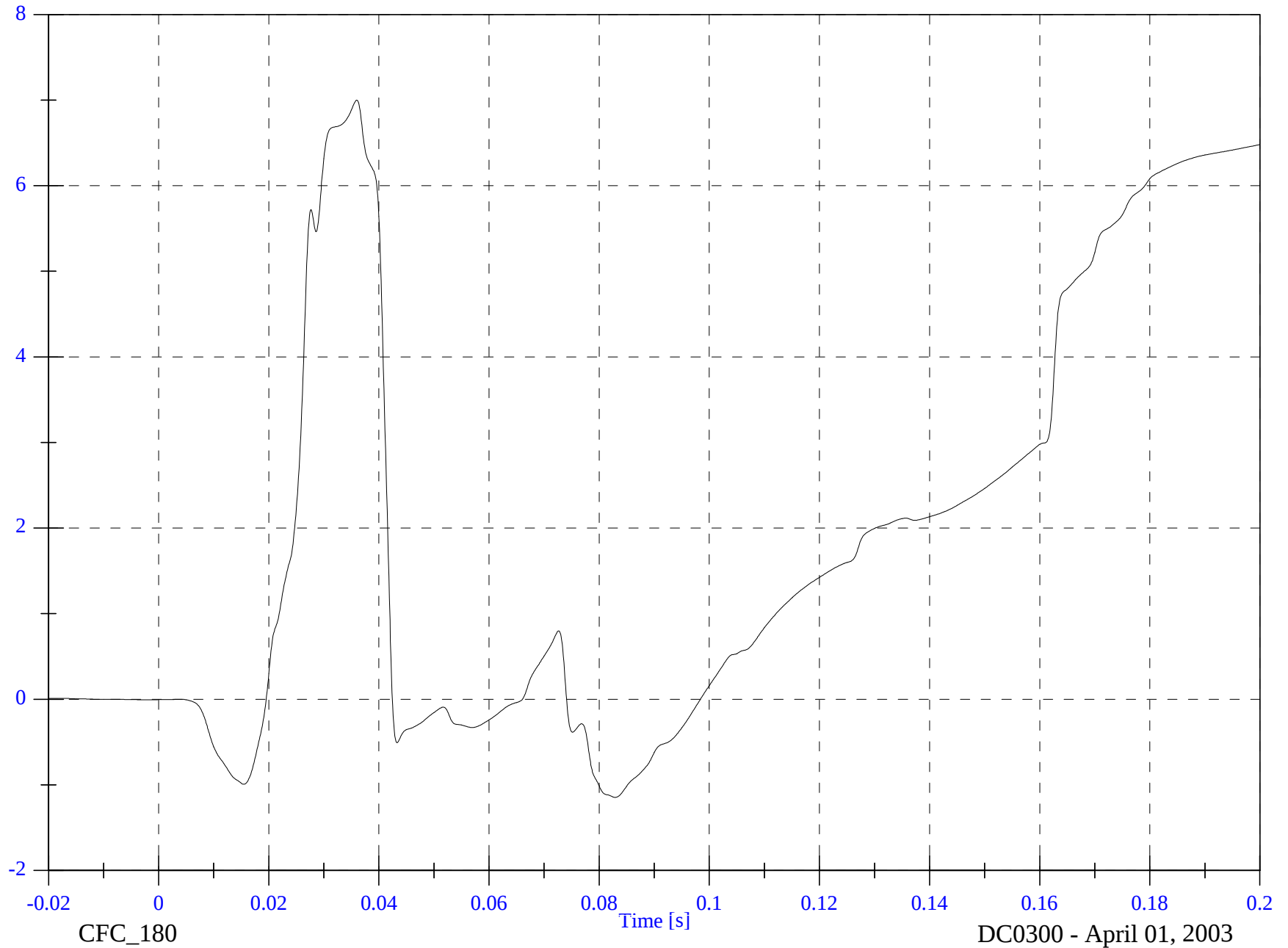


2004 Chrysler Pacifica Optional SNCAP

V2 A18 Target CG Z Velocity

Max: 7.0 [kph] at 0.036 [s]

Min: -1.1 [kph] at 0.083 [s]



B-114

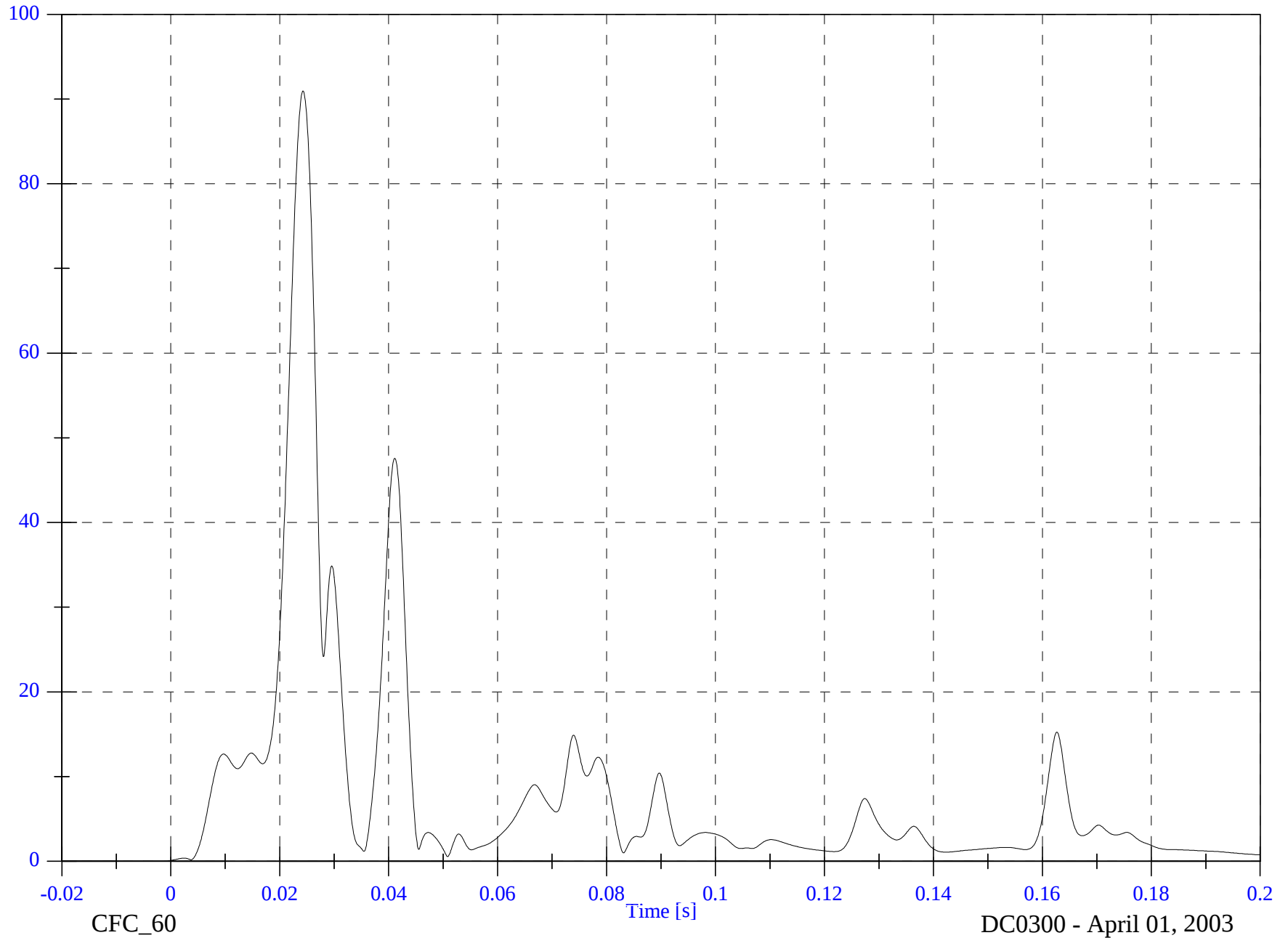
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2 A18 Target CG Resultant

Max: 91.0 [g] at 0.024 [s]

Min: 0.0 [g] at -0.020 [s]



B-115

8700-01

2004 Chrysler Pacifica Optional SNCAP

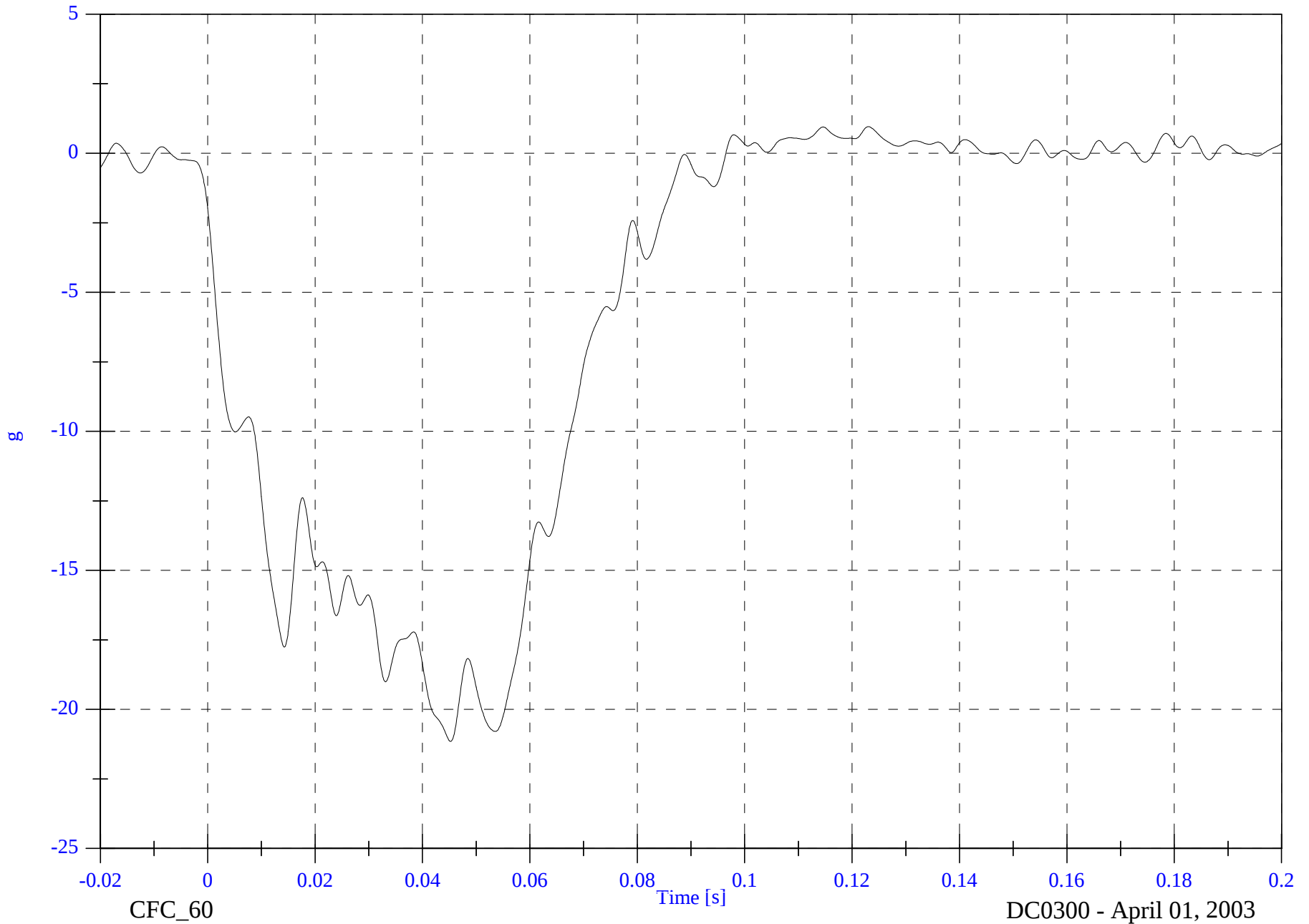
V1 Moving Barrier CG X

Max: 1.0 [g] at 0.123 [s]

Min: -21.1 [g] at 0.045 [s]

B-116

8700-01

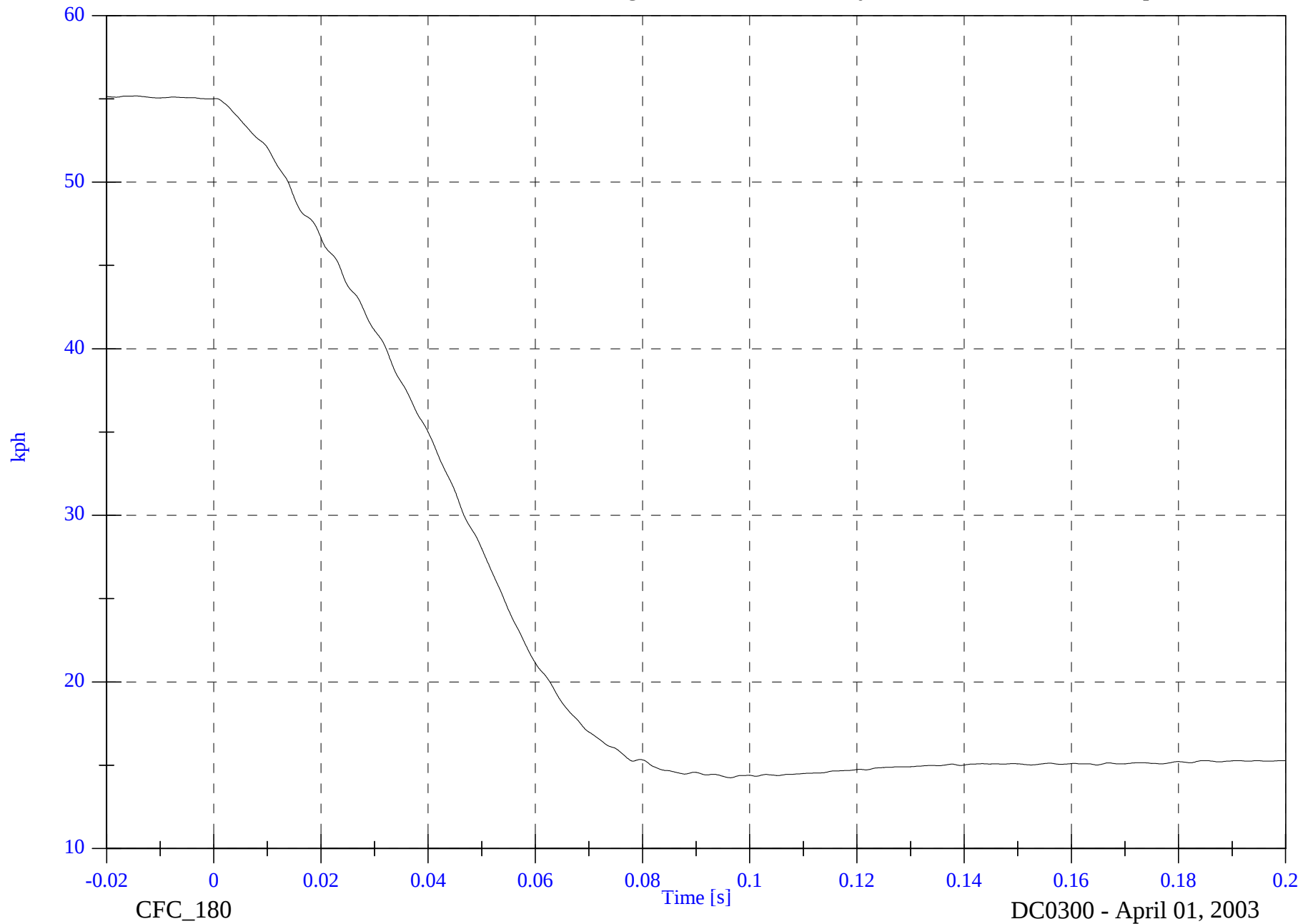


2004 Chrysler Pacifica Optional SNCAP

V1 Moving Barrier CG X Velocity

Max: 55.2 [kph] at -0.015 [s]

Min: 14.3 [kph] at 0.096 [s]



B-117

8700-01

CFC_180

Time [s]

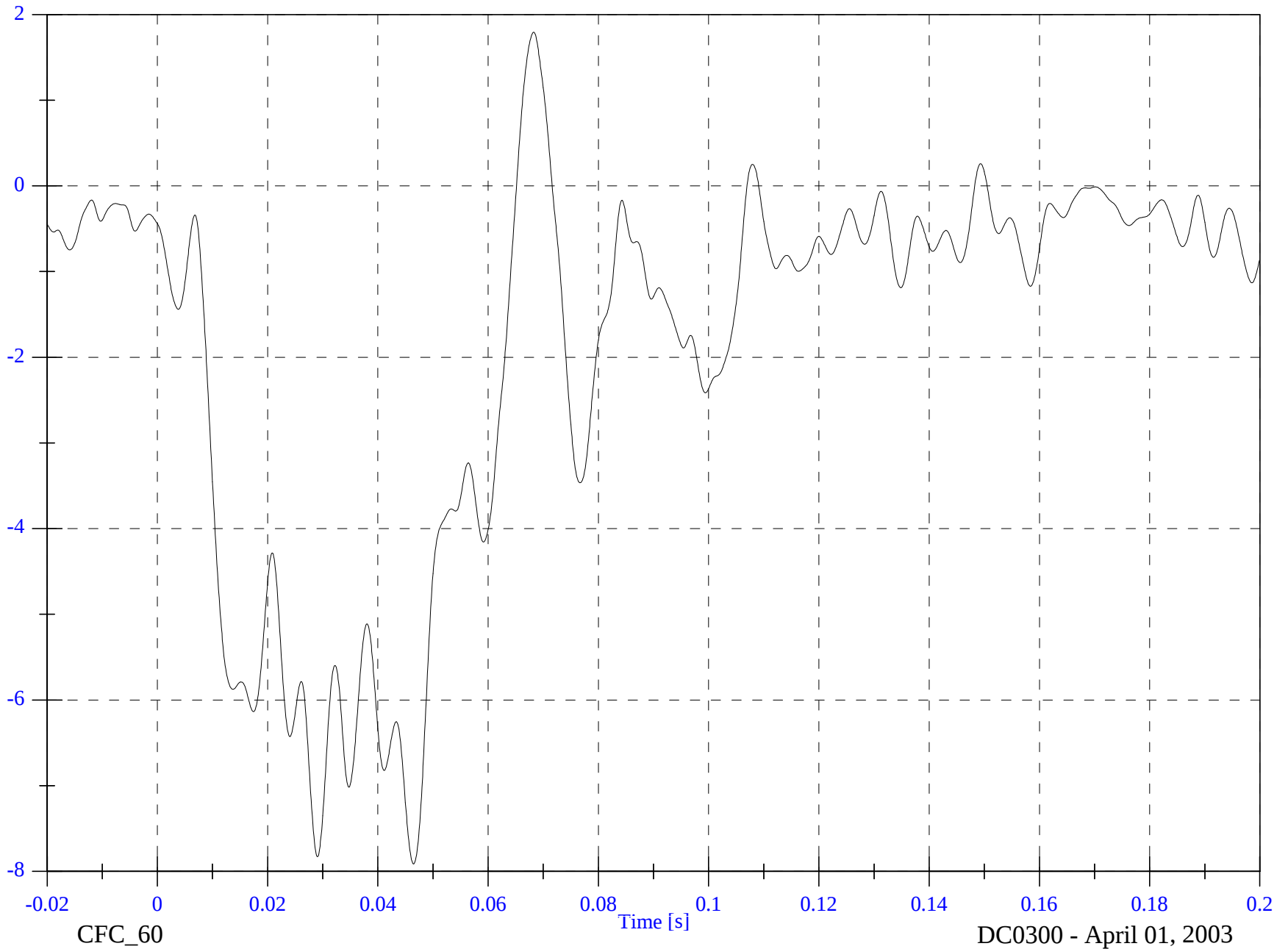
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2004 Chrysler Pacifica Optional SNCAP

V1 Moving Barrier CG Y

Max: 1.8 [g] at 0.068 [s]

Min: -7.9 [g] at 0.046 [s]



B-118

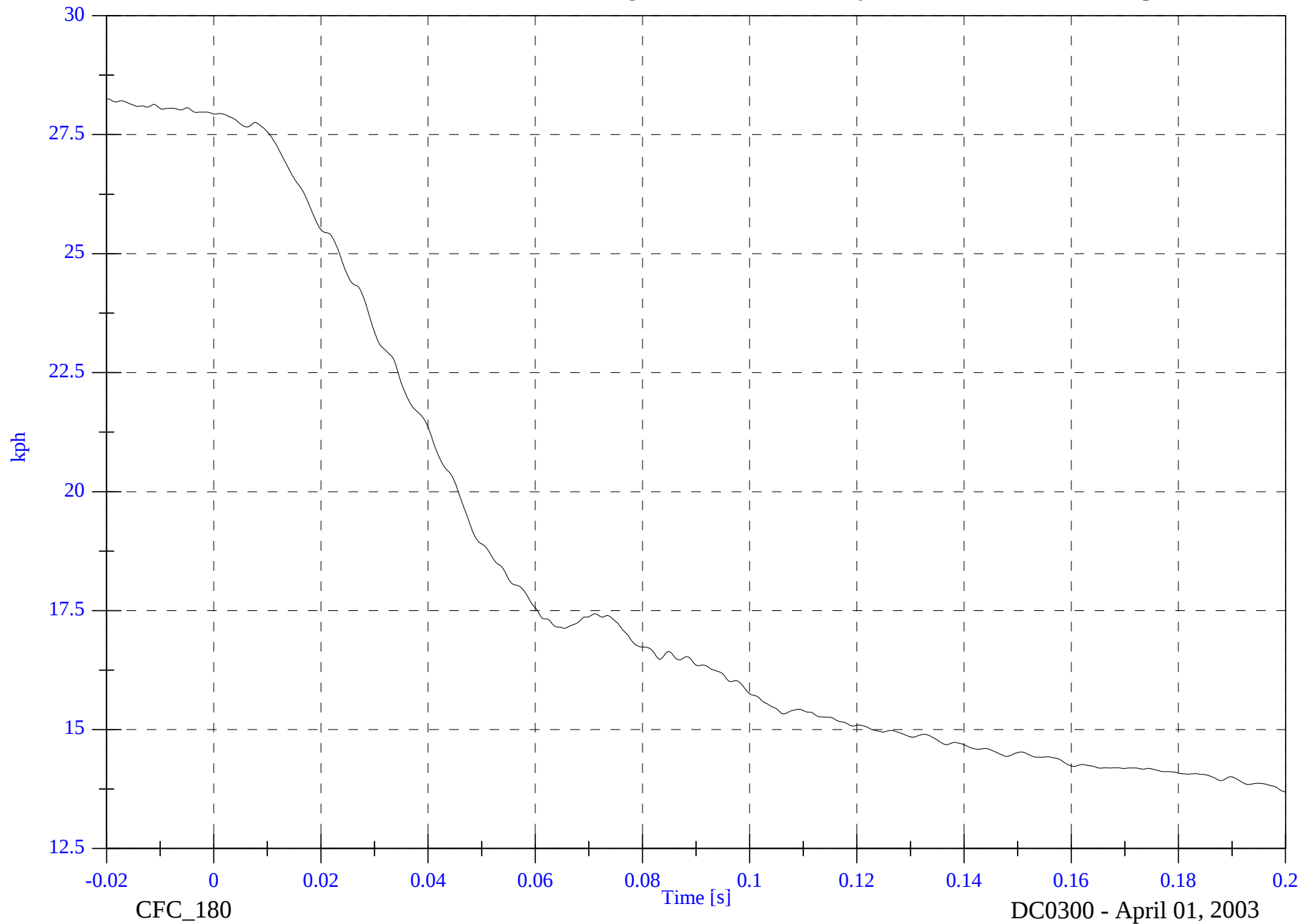
8700-01

2004 Chrysler Pacifica Optional SNCAP

V1 Moving Barrier CG Y Velocity

Max: 28.2 [kph] at -0.020 [s]

Min: 13.7 [kph] at 0.200 [s]



B-119

8700-01

CFC_180

Time [s]

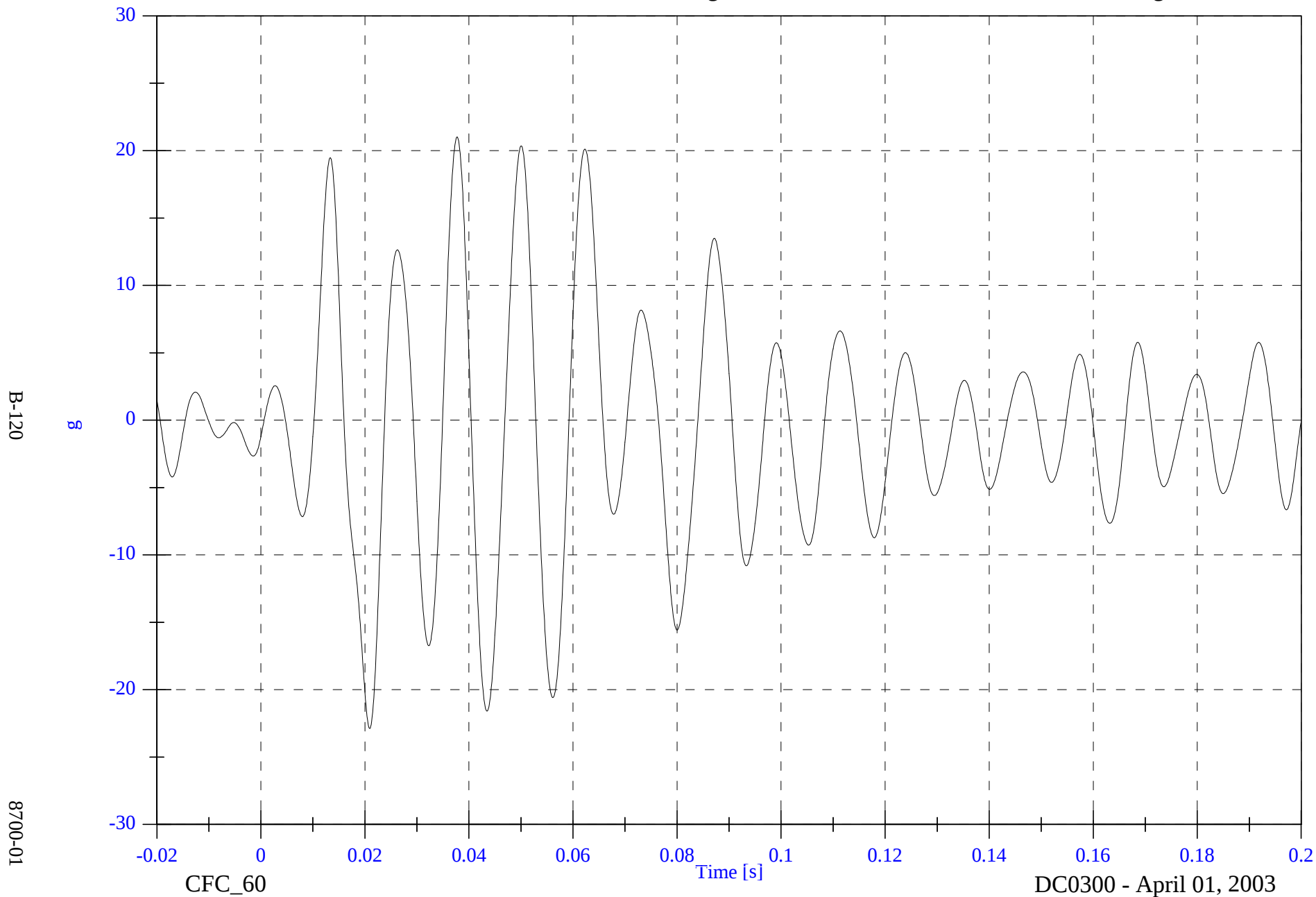
DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

V1 Moving Barrier CG Z

Max: 21.0 [g] at 0.038 [s]

Min: -22.9 [g] at 0.021 [s]

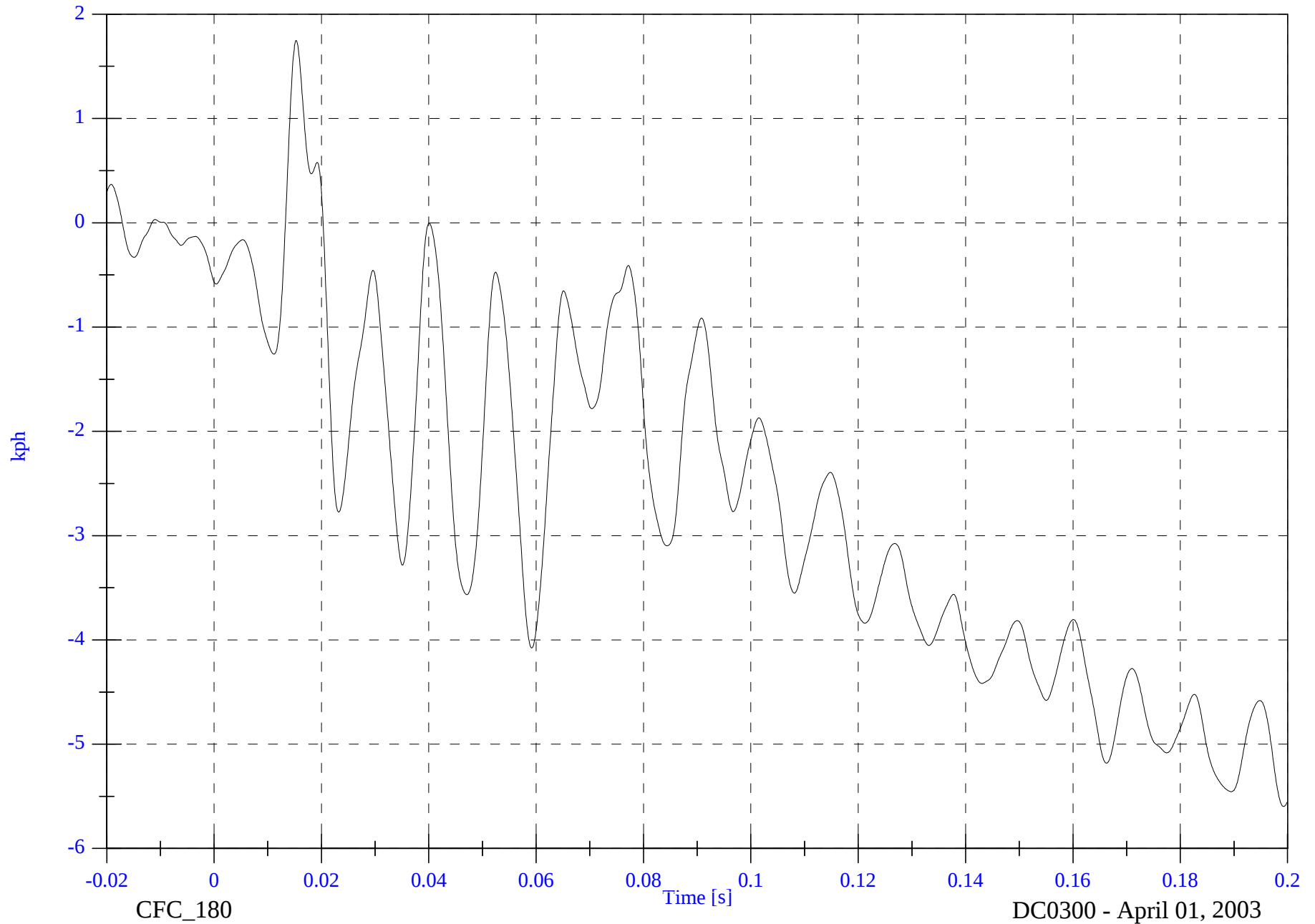


2004 Chrysler Pacifica Optional SNCAP

V1 Moving Barrier CG Z Velocity

Max: 1.7 [kph] at 0.015 [s]

Min: -5.6 [kph] at 0.199 [s]



B-121

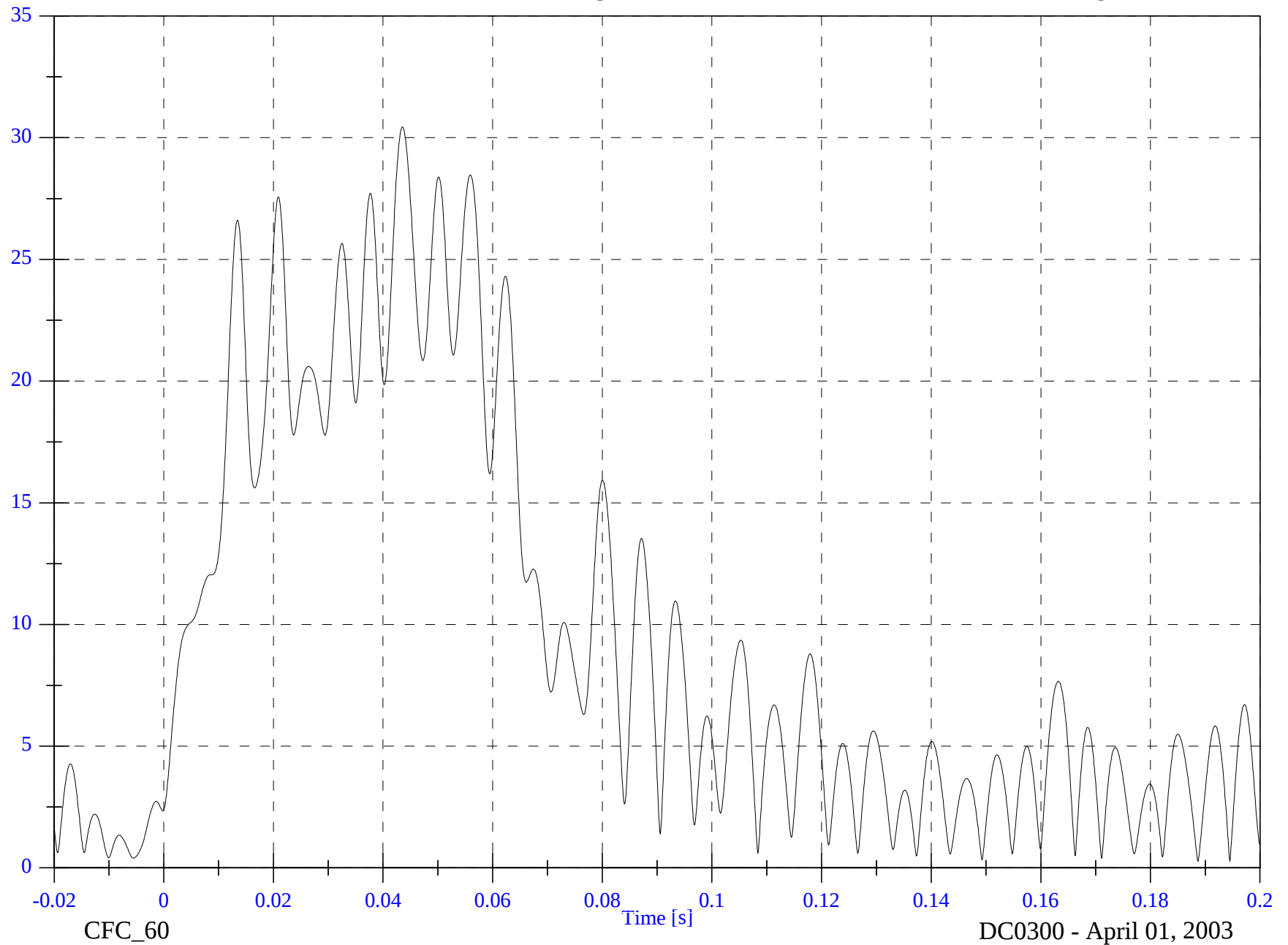
8700-01

2004 Chrysler Pacifica Optional SNCAP

V1 Moving Barrier CG Resultant

Max: 30.4 [g] at 0.043 [s]

Min: 0.3 [g] at 0.194 [s]



B-122

8700-01

2004 Chrysler Pacifica Optional SNCAP

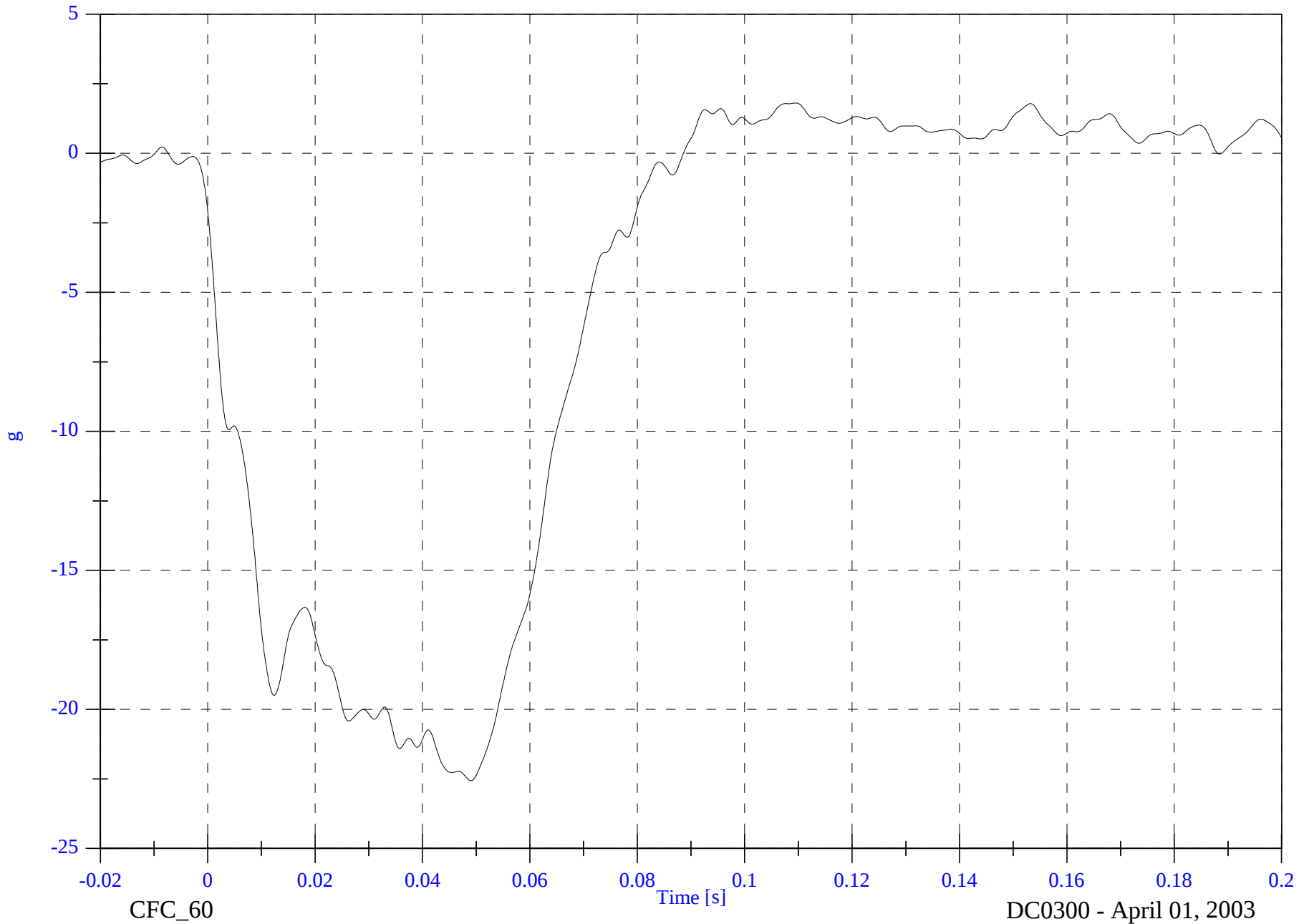
V1 Moving Barrier Left Rail X

Max: 1.8 [g] at 0.109 [s]

Min: -22.6 [g] at 0.049 [s]

B-123

8700-01

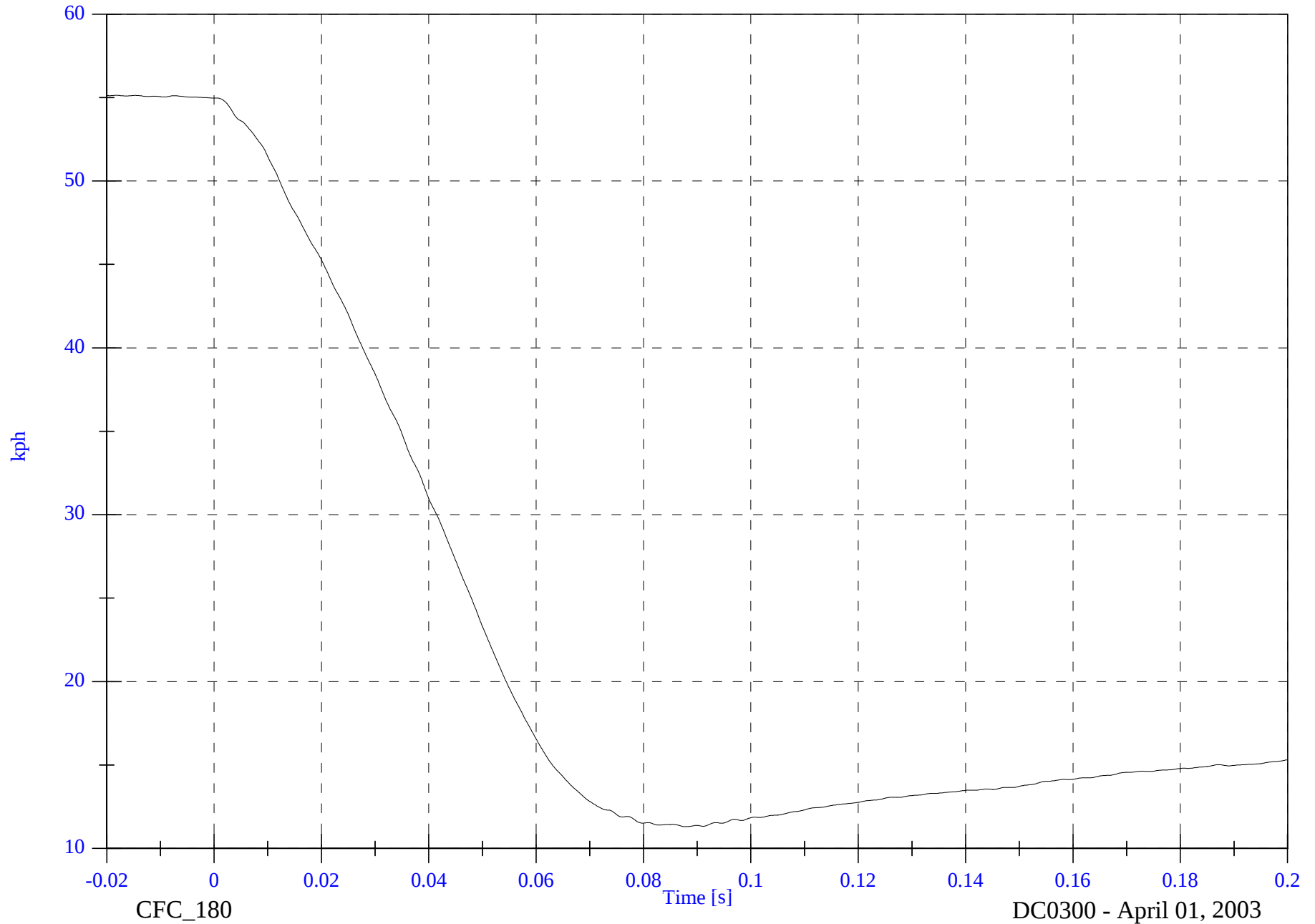


2004 Chrysler Pacifica Optional SNCAP

V1 Moving Barrier Left Rail X Velocity

Max: 55.1 [kph] at -0.018 [s]

Min: 11.3 [kph] at 0.088 [s]



B-124

8700-01

2004 Chrysler Pacifica Optional SNCAP

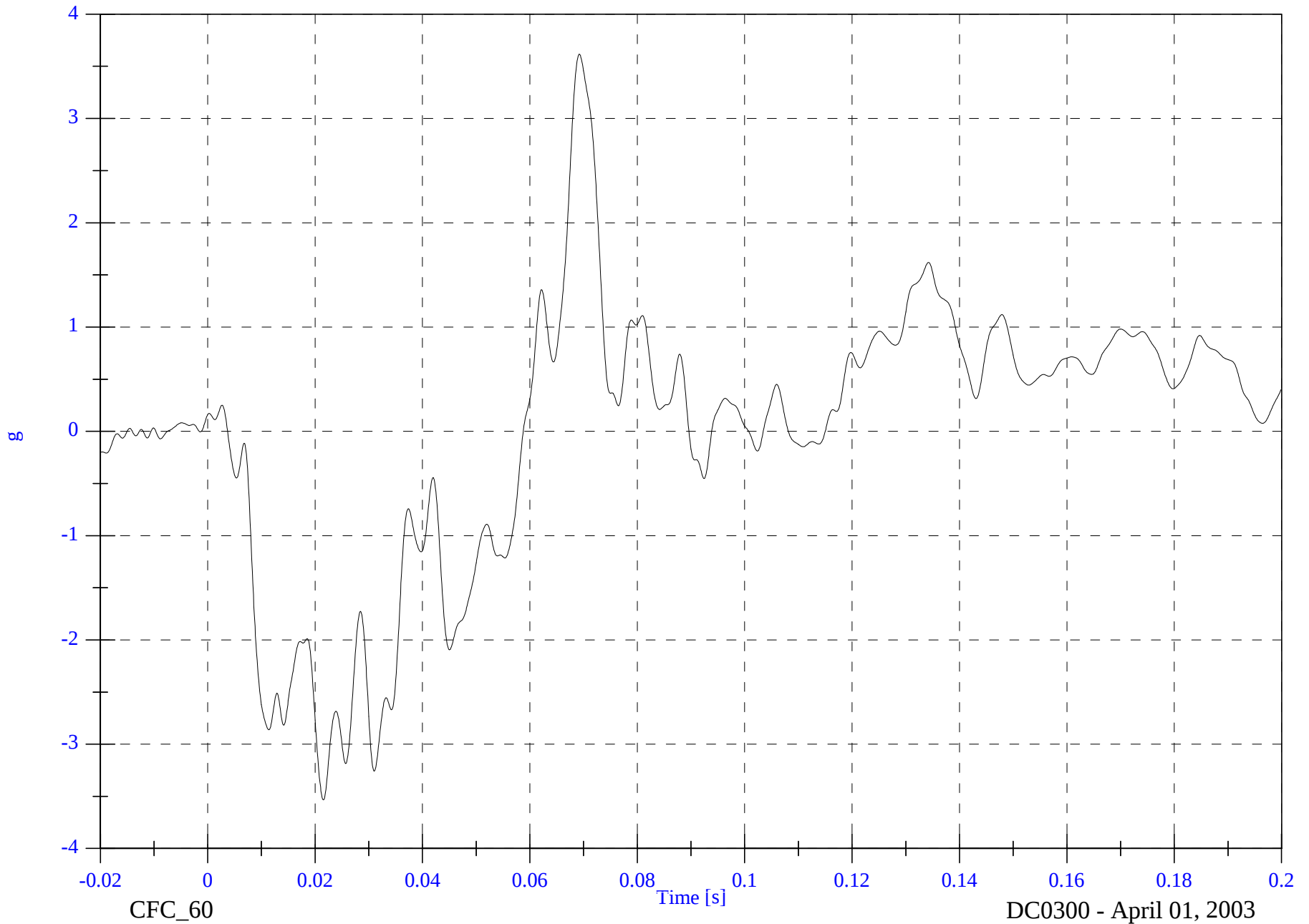
V1 Moving Barrier Left Rail Y

Max: 3.6 [g] at 0.069 [s]

Min: -3.5 [g] at 0.021 [s]

B-125

8700-01

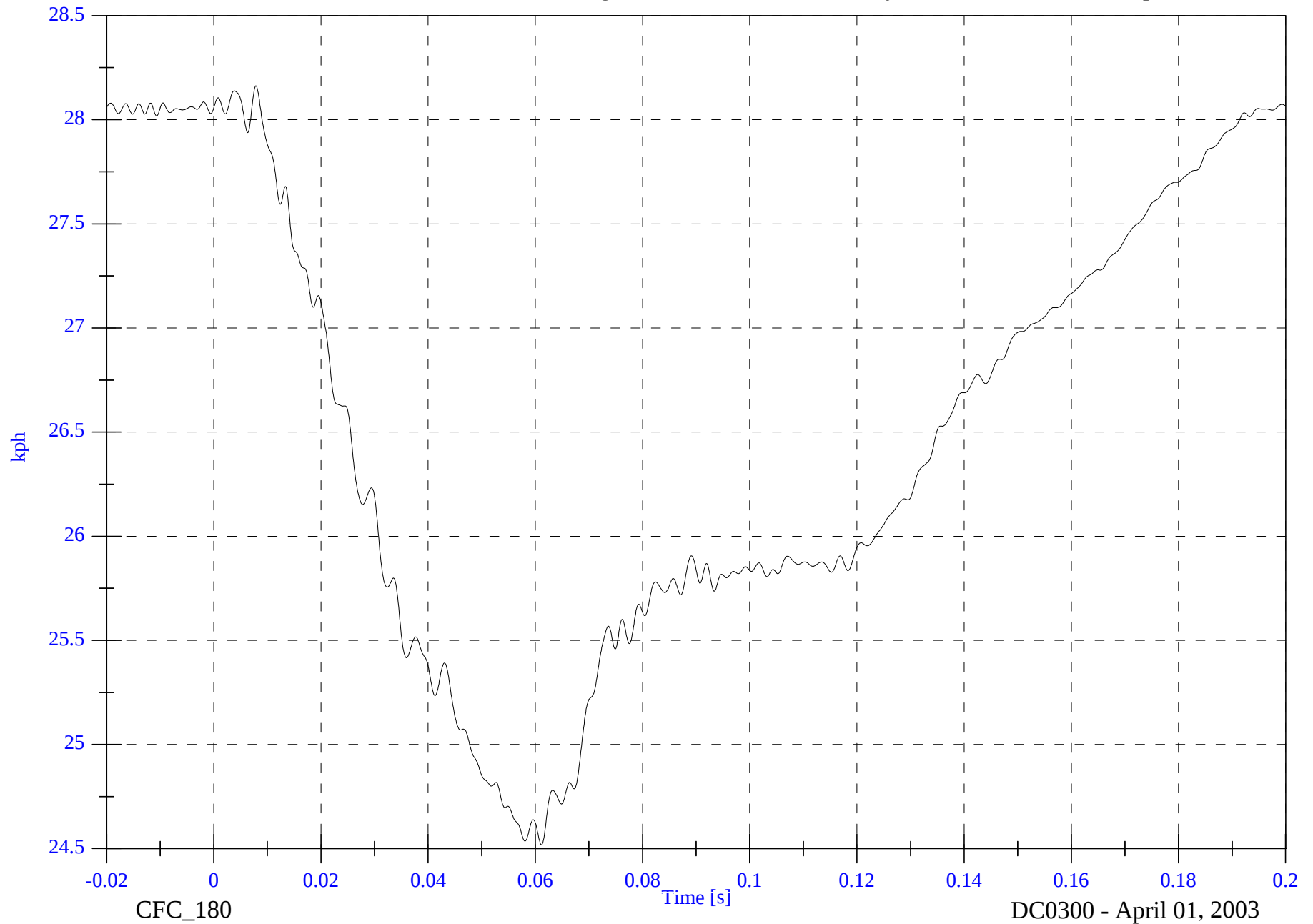


2004 Chrysler Pacifica Optional SNCAP

V1 Moving Barrier Left Rail Y Velocity

Max: 28.2 [kph] at 0.008 [s]

Min: 24.5 [kph] at 0.061 [s]



B-126

8700-01

CFC_180

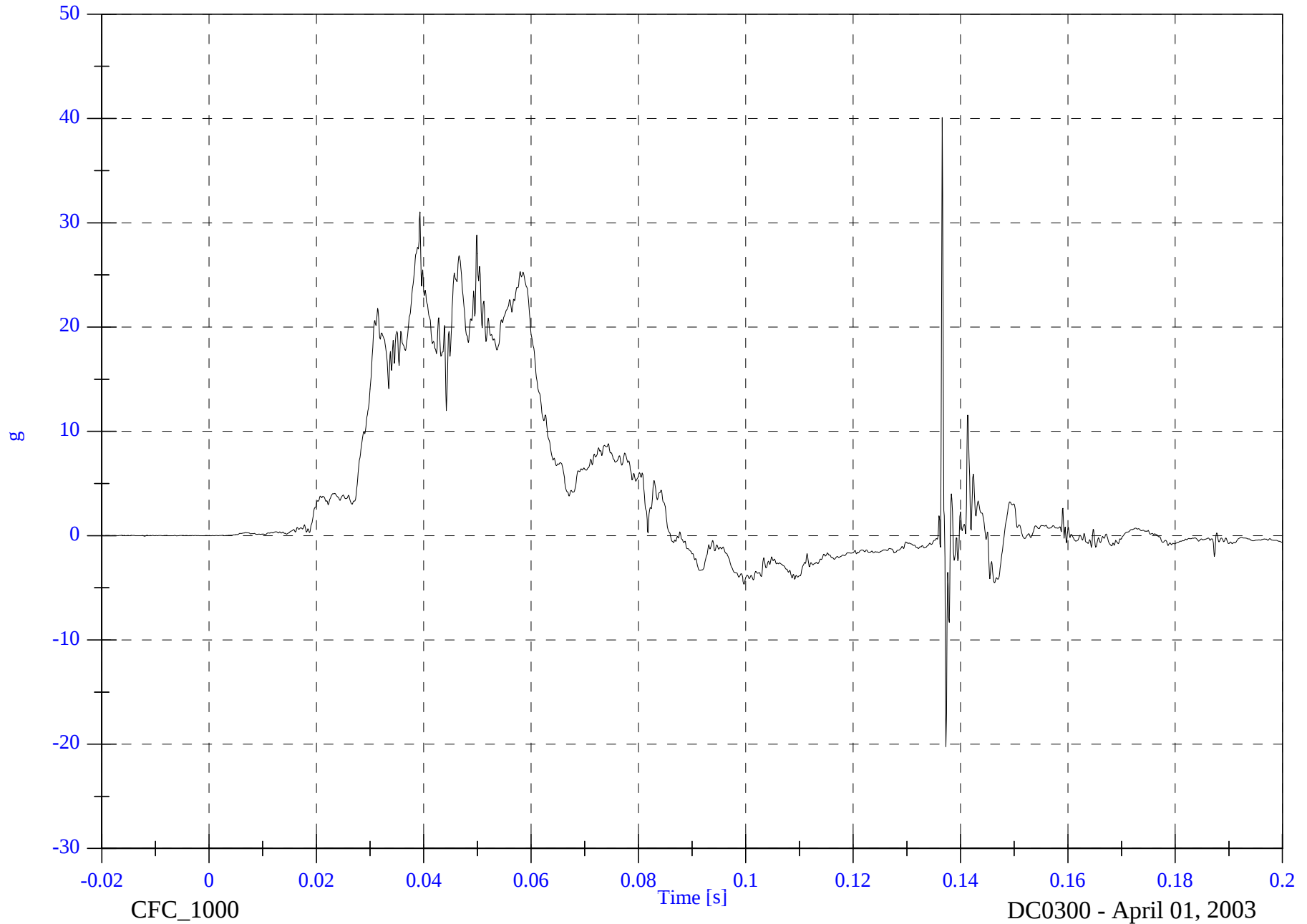
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2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Rib Ry

Max: 40.1 [g] at 0.137 [s]

Min: -20.2 [g] at 0.137 [s]



B-127

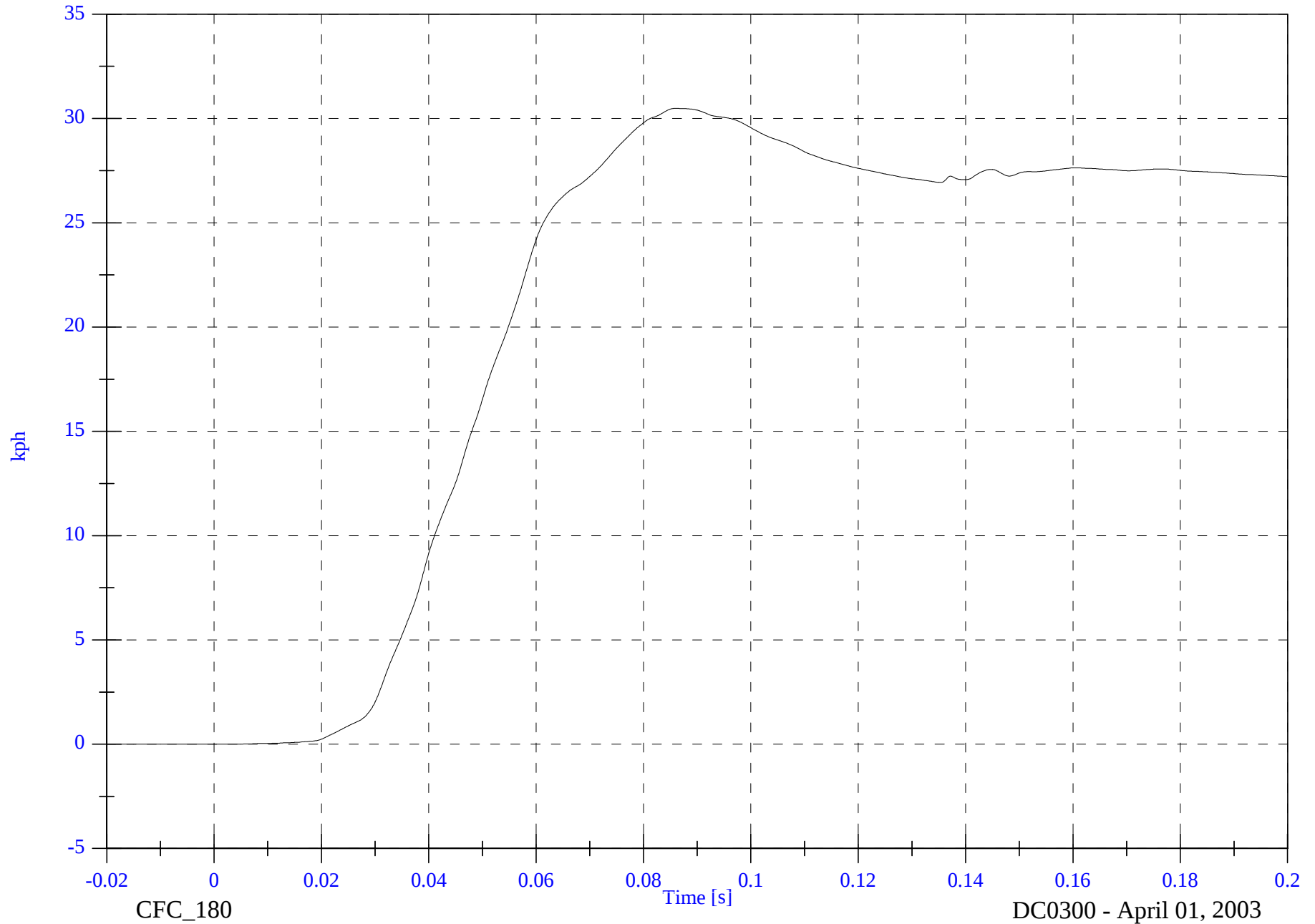
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Rib Ry Velocity

Max: 30.5 [kph] at 0.086 [s]

Min: -0.0 [kph] at -0.020 [s]



B-128

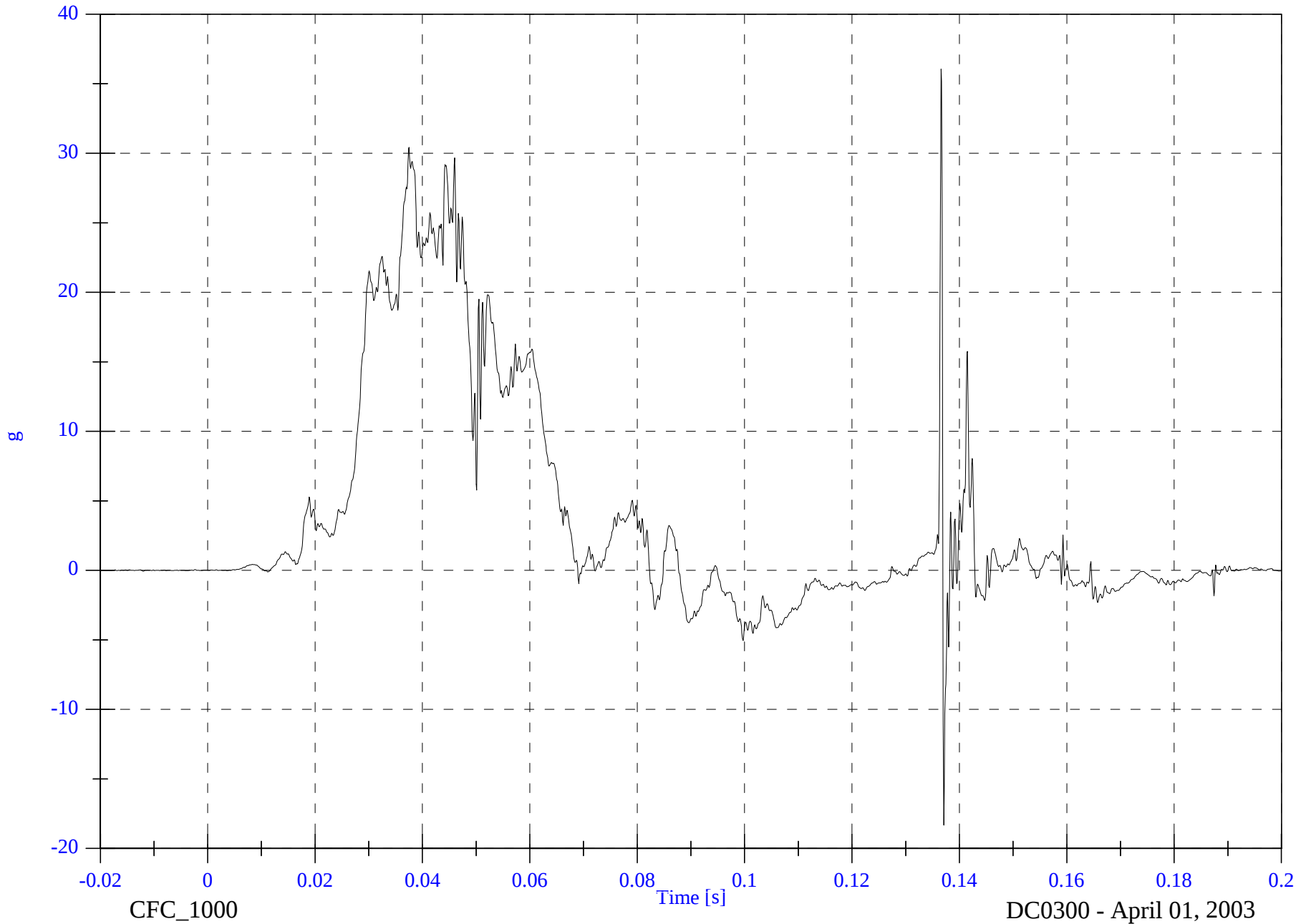
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Lower Rib Ry

Max: 36.1 [g] at 0.137 [s]

Min: -18.3 [g] at 0.137 [s]



B-129

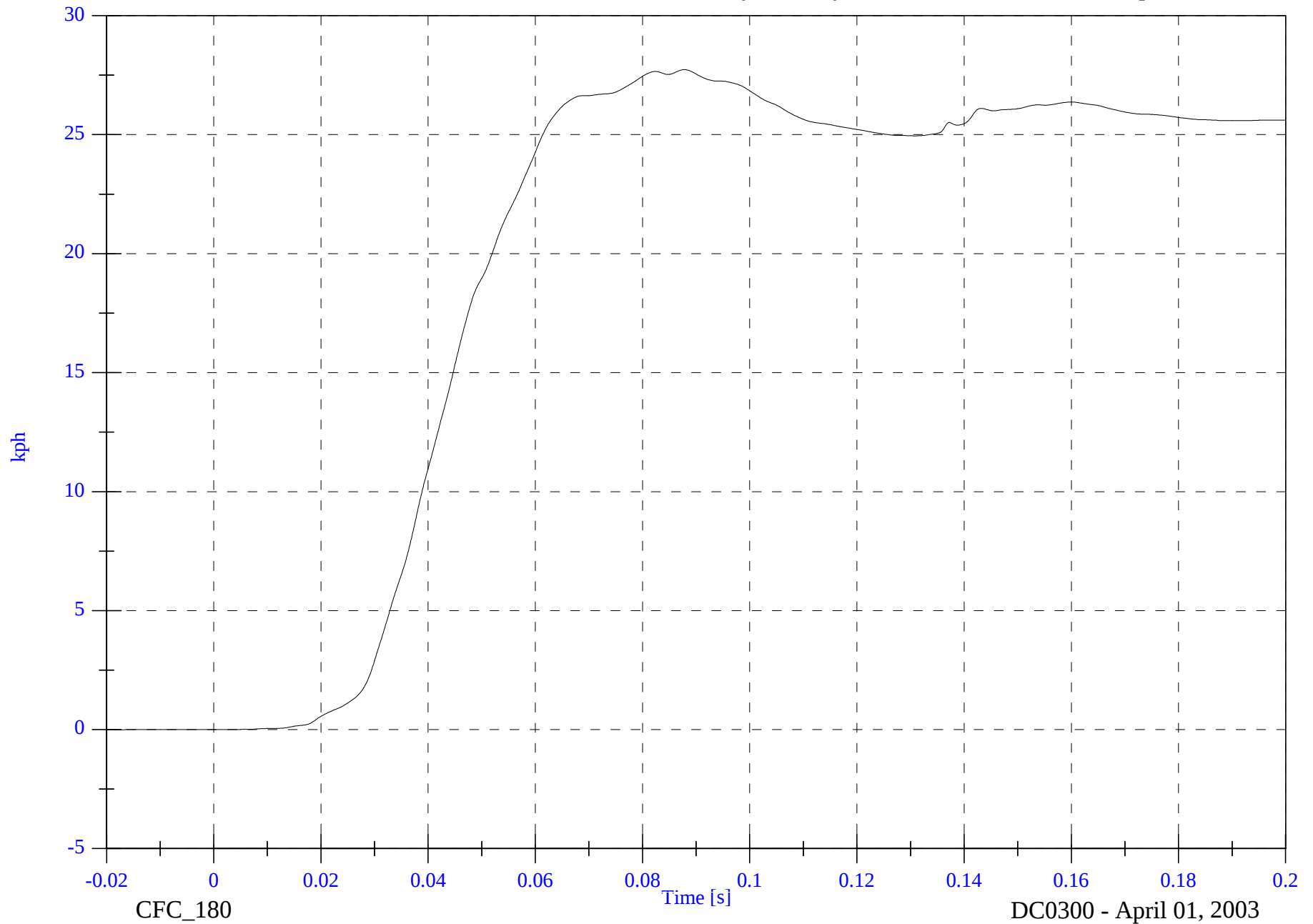
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Lower Rib Ry Velocity

Max: 27.7 [kph] at 0.088 [s]

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



B-130

8700-01

CFC_180

DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

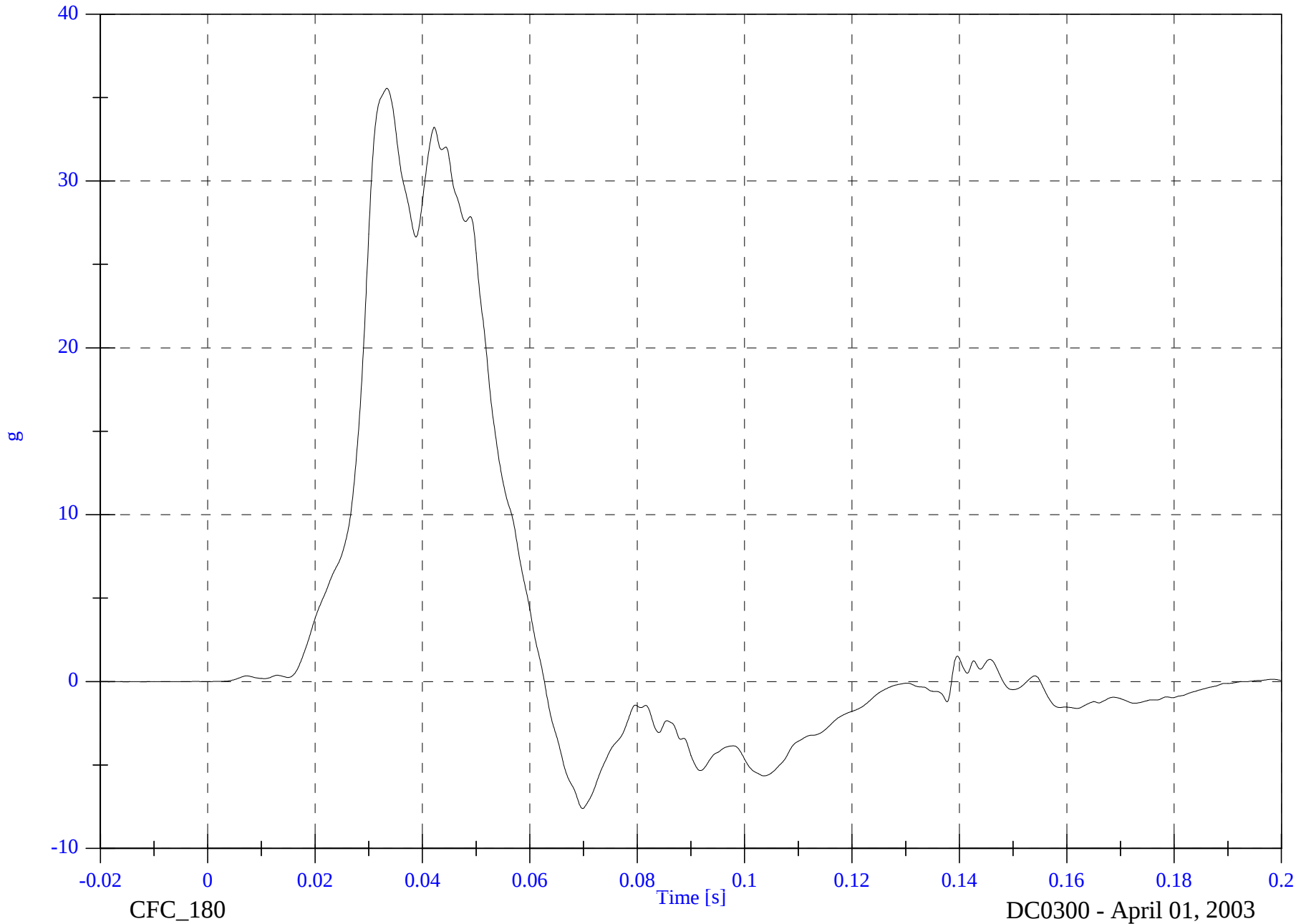
V2P1 Lower Spine Ry

Max: 35.6 [g] at 0.033 [s]

Min: -7.6 [g] at 0.070 [s]

B-131

8700-01

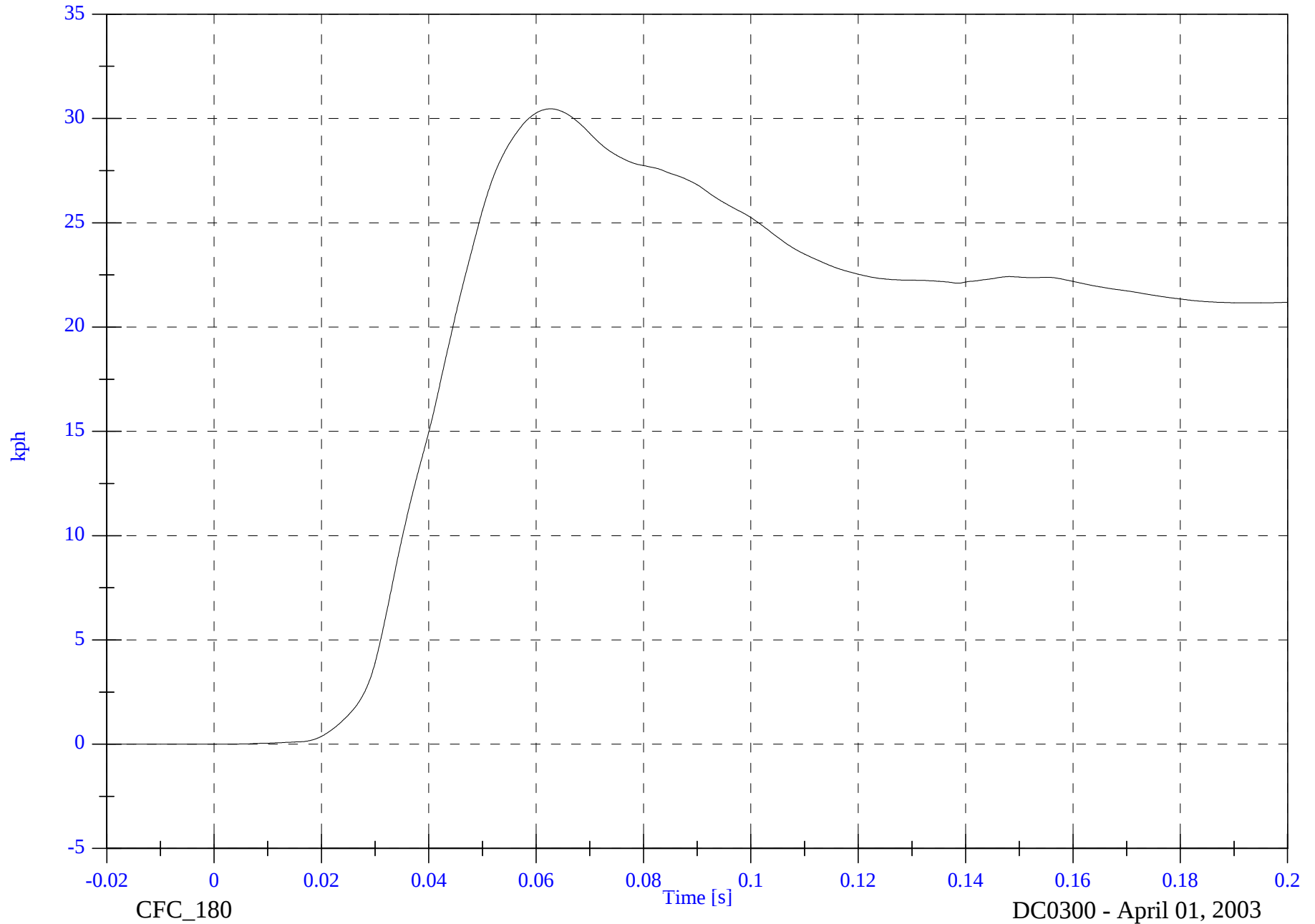


2004 Chrysler Pacifica Optional SNCAP

V2P1 Lower Spine Ry Velocity

Max: 30.5 [kph] at 0.063 [s]

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



B-132

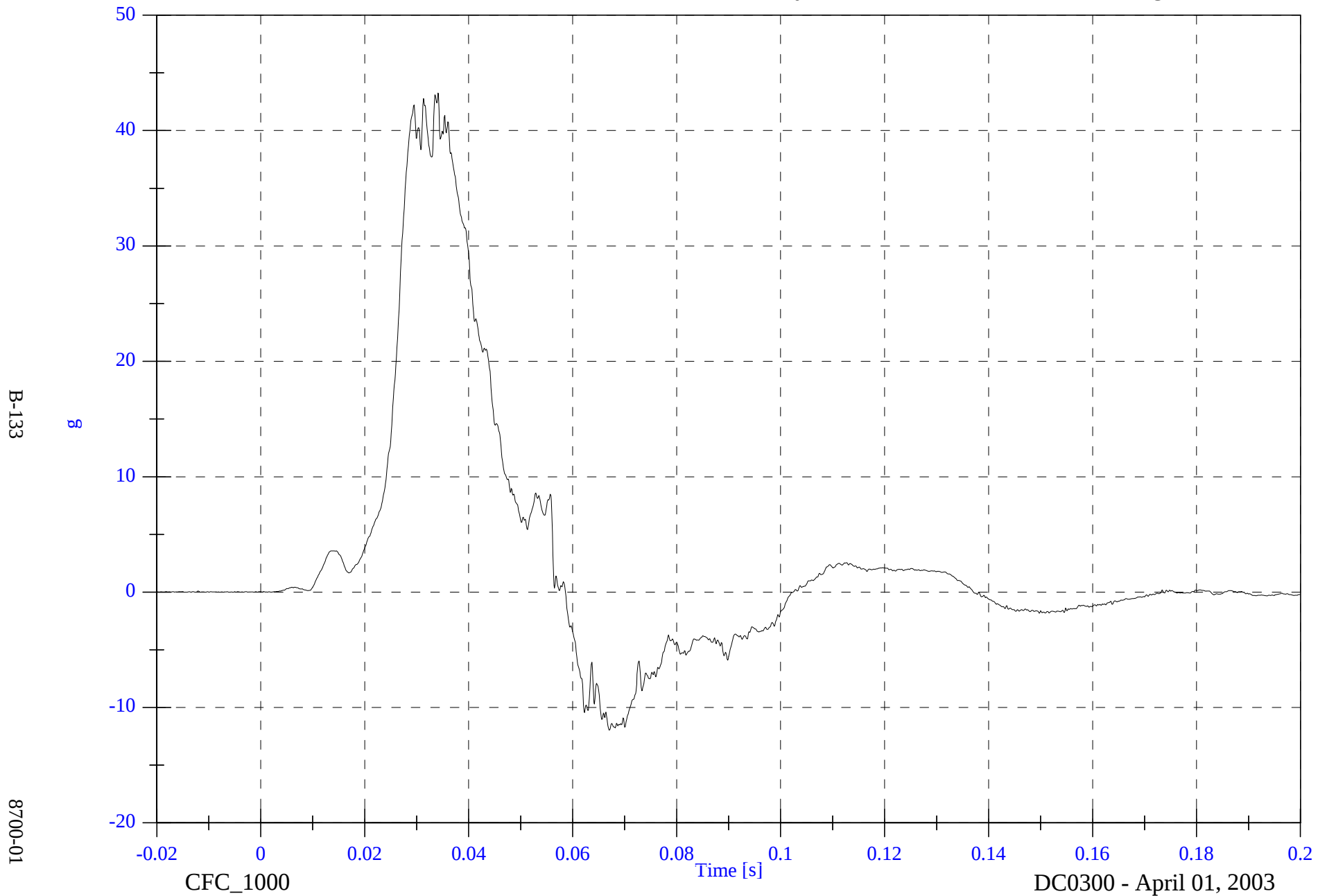
8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Pelvic Ry

Max: 43.3 [g] at 0.034 [s]

Min: -12.0 [g] at 0.067 [s]

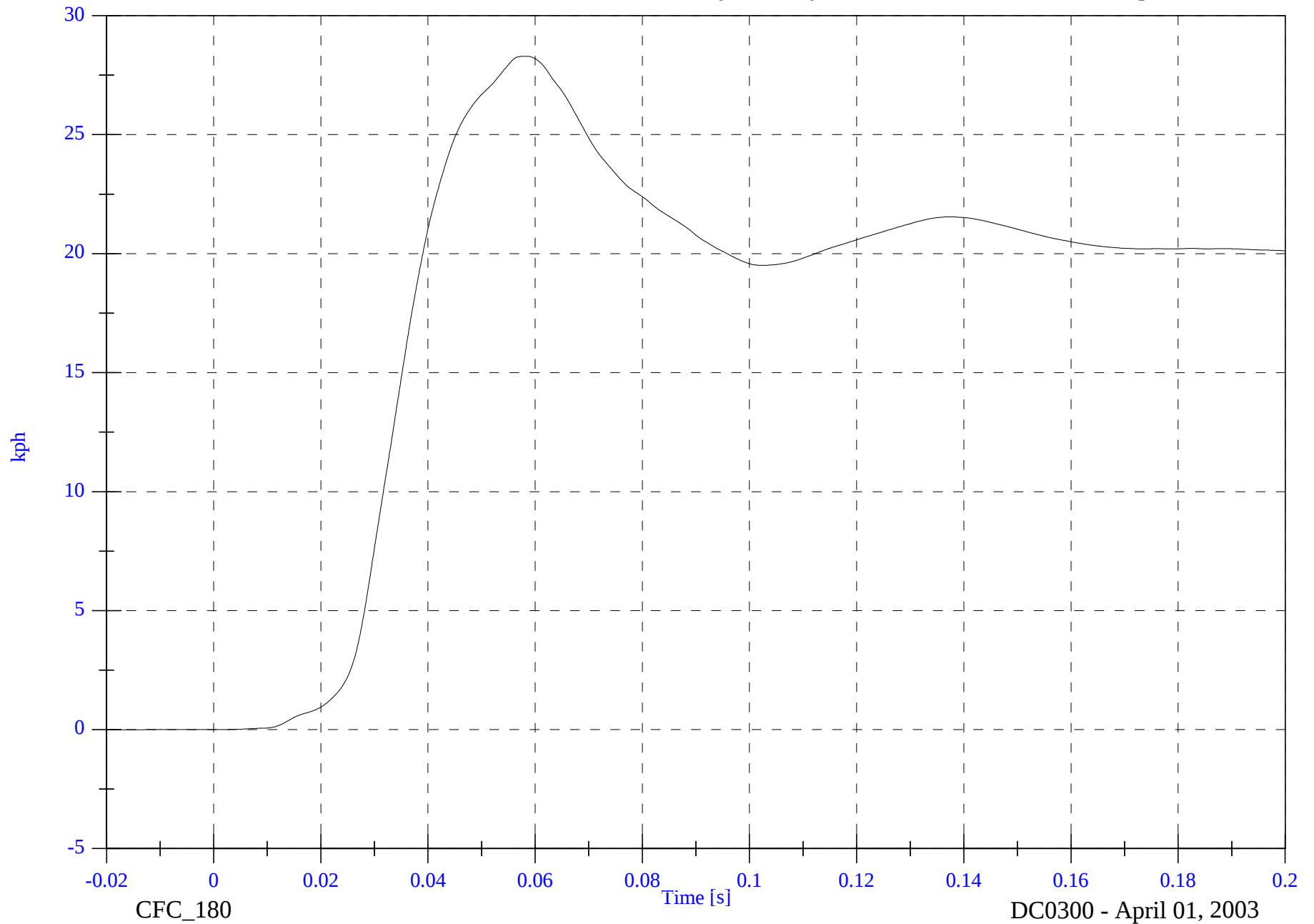


2004 Chrysler Pacifica Optional SNCAP

V2P1 Pelvic Ry Velocity

Max: 28.3 [kph] at 0.058 [s]

Min: -0.0 [kph] at -0.020 [s]



B-134

8700-01

2004 Chrysler Pacifica Optional SBCAP

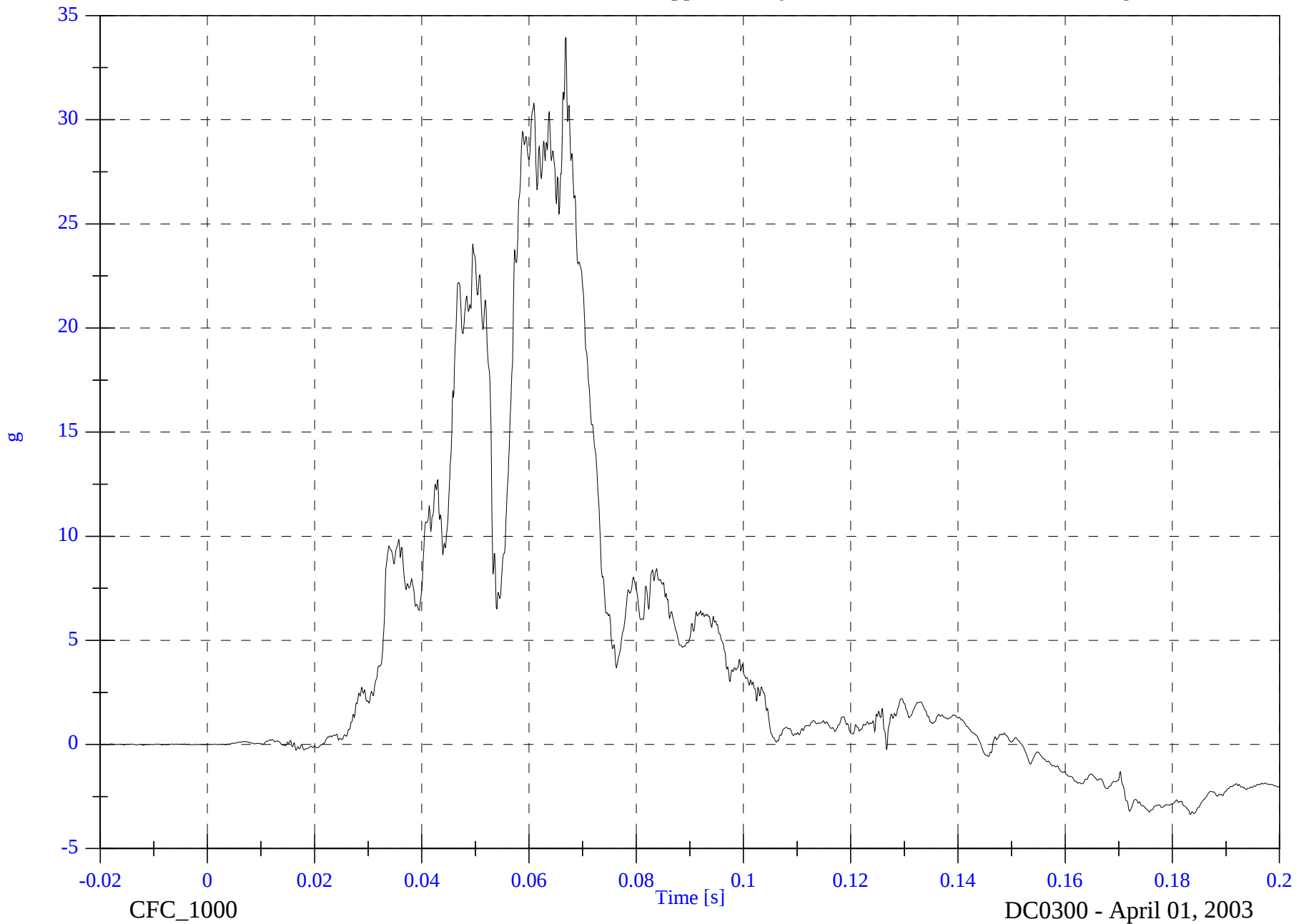
V2P4 Upper Rib Ry

Max: 33.9 [g] at 0.067 [s]

Min: -3.4 [g] at 0.183 [s]

B-135

8700-01

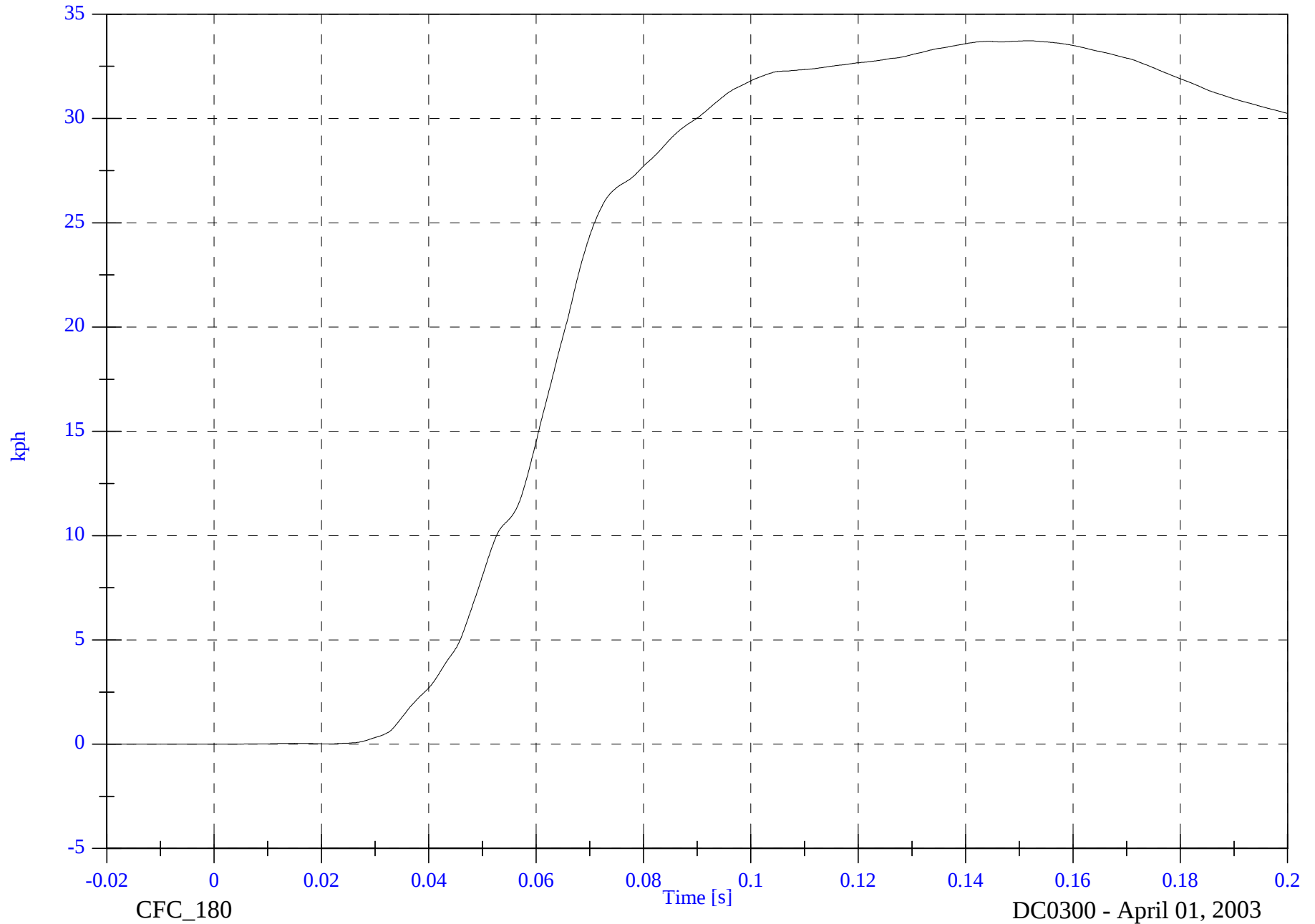


2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Rib Ry Velocity

Max: 33.7 [kph] at 0.152 [s]

Min: -0.0 [kph] at -0.020 [s]



B-136

8700-01

2004 Chrysler Pacifica Optional SNCAP

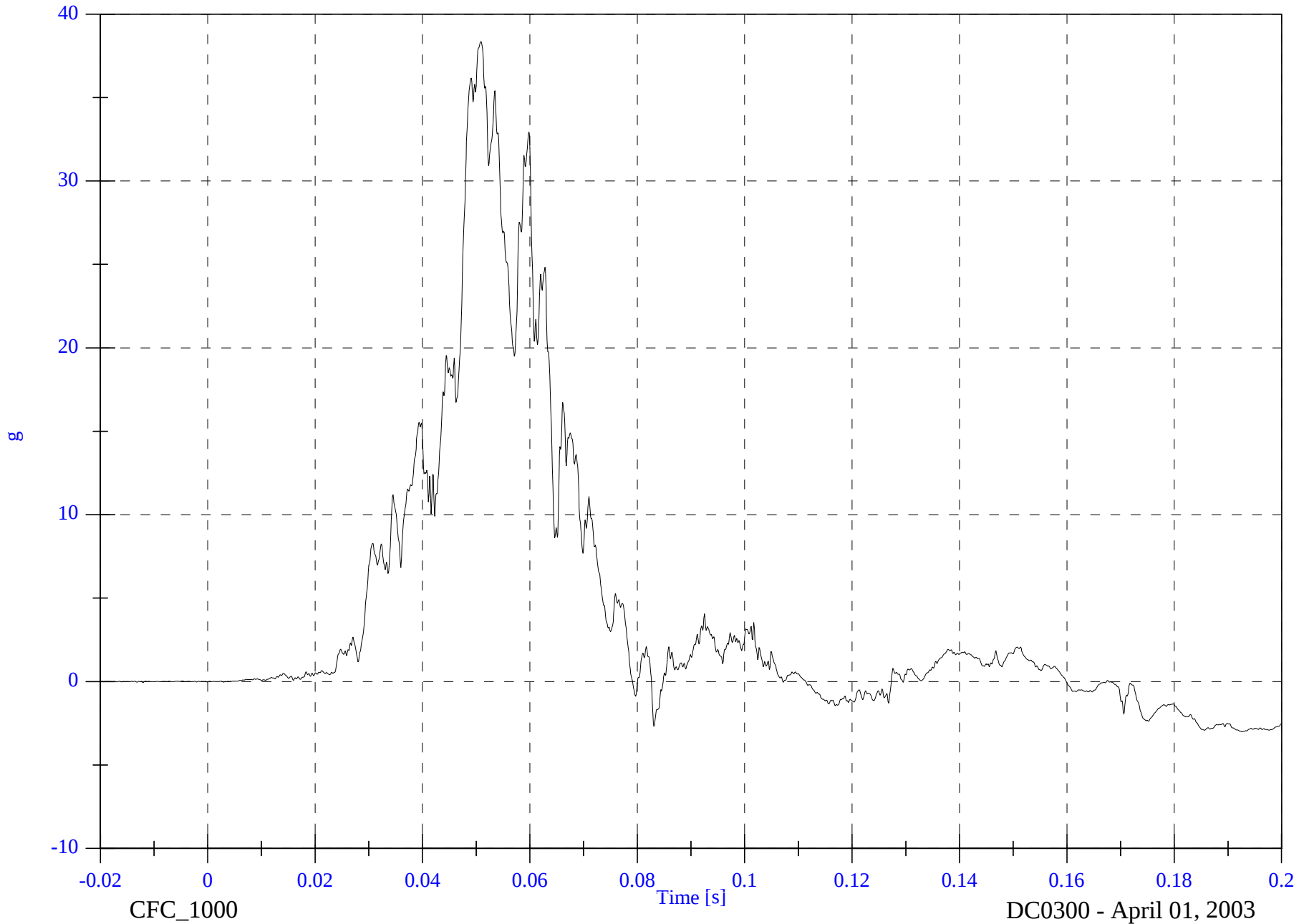
V2P4 Lower Rib Ry

Max: 38.4 [g] at 0.051 [s]

Min: -3.0 [g] at 0.193 [s]

B-137

8700-01

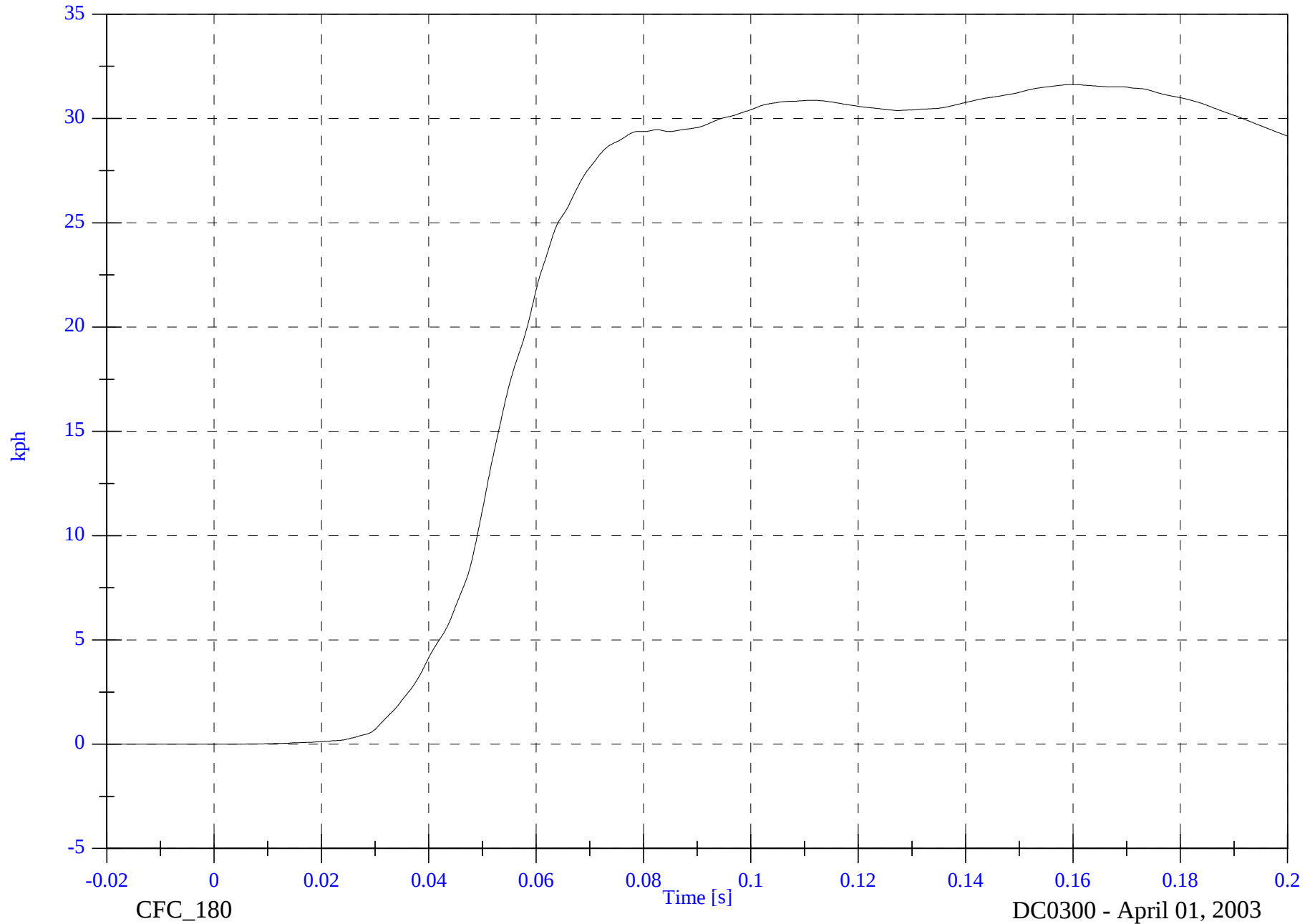


2004 Chrysler Pacifica Optional SNCAP

V2P4 Lower Rib Ry Velocity

Max: 31.6 [kph] at 0.160 [s]

Min: -0.0 [kph] at -0.020 [s]



B-138

8700-01

CFC_180

Time [s]

DC0300 - April 01, 2003

2004 Chrysler Pacifica Optional SNCAP

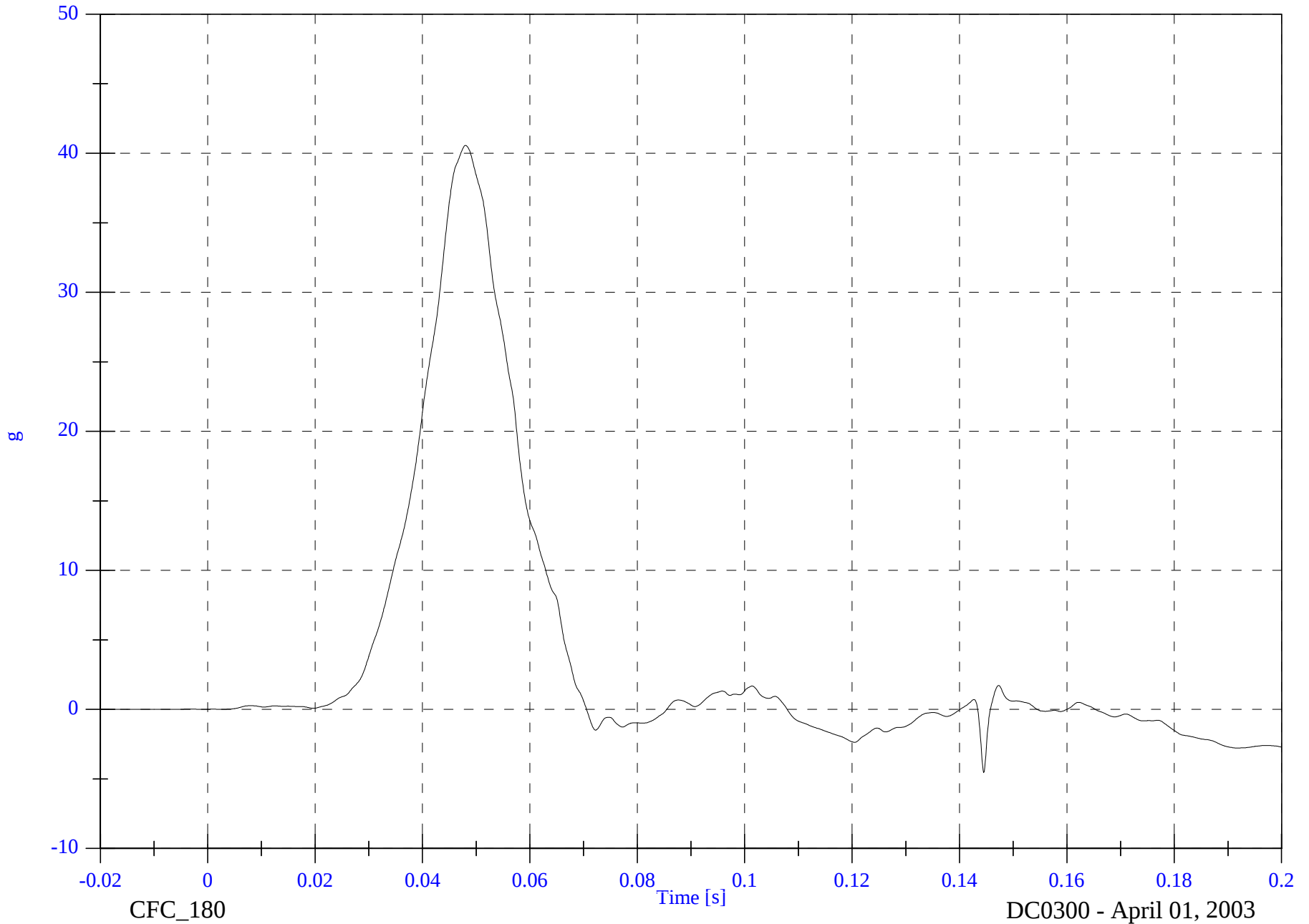
V2P4 Lower Spine Ry

Max: 40.6 [g] at 0.048 [s]

Min: -4.5 [g] at 0.144 [s]

B-139

8700-01

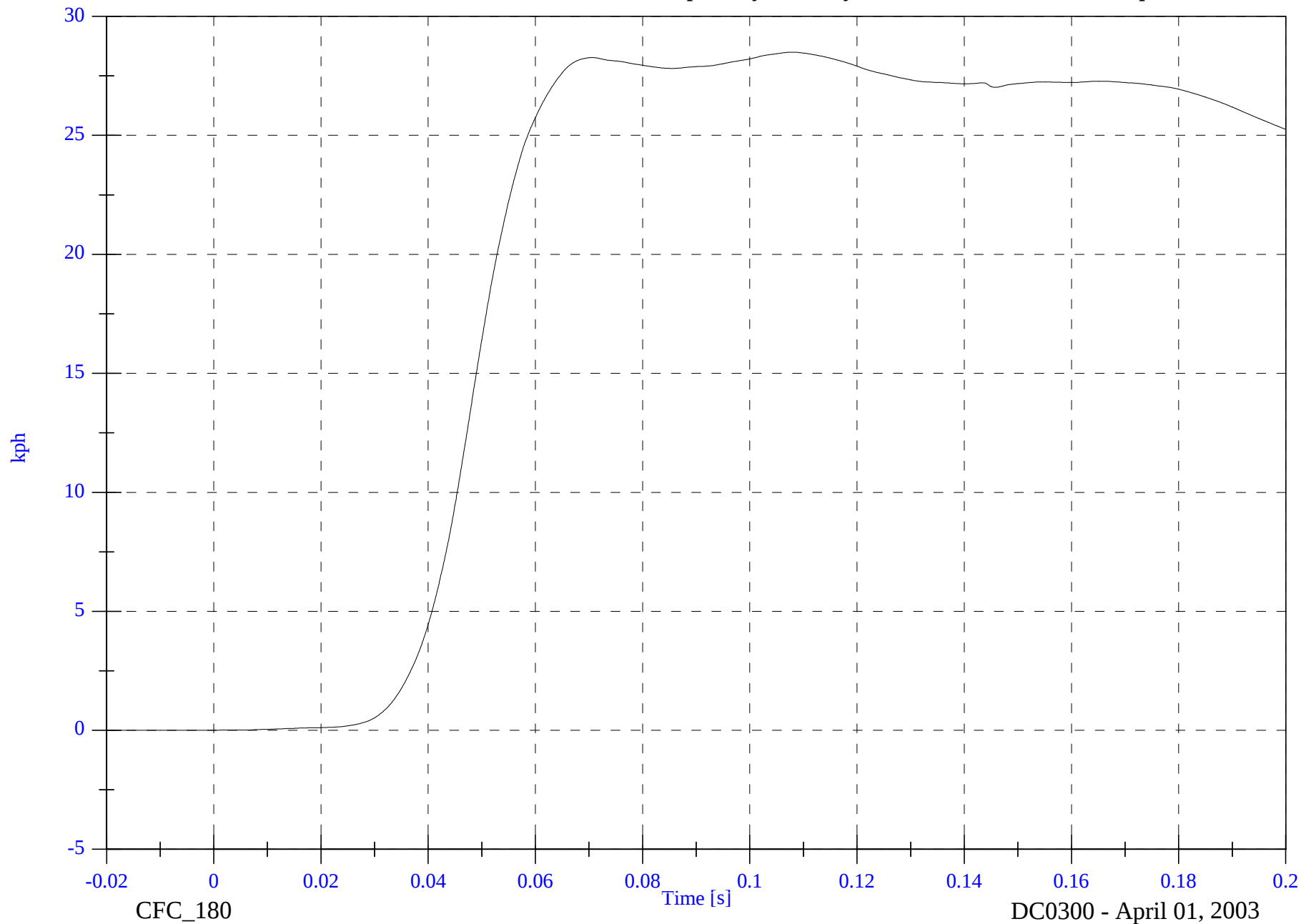


2004 Chrysler Pacifica Optional SNCAP

V2P4 Lower Spine Ry Velocity

Max: 28.5 [kph] at 0.108 [s]

Min: -0.0 [kph] at -0.020 [s]



B-140

8700-01

2004 Chrysler Pacifica Optional SNCAP

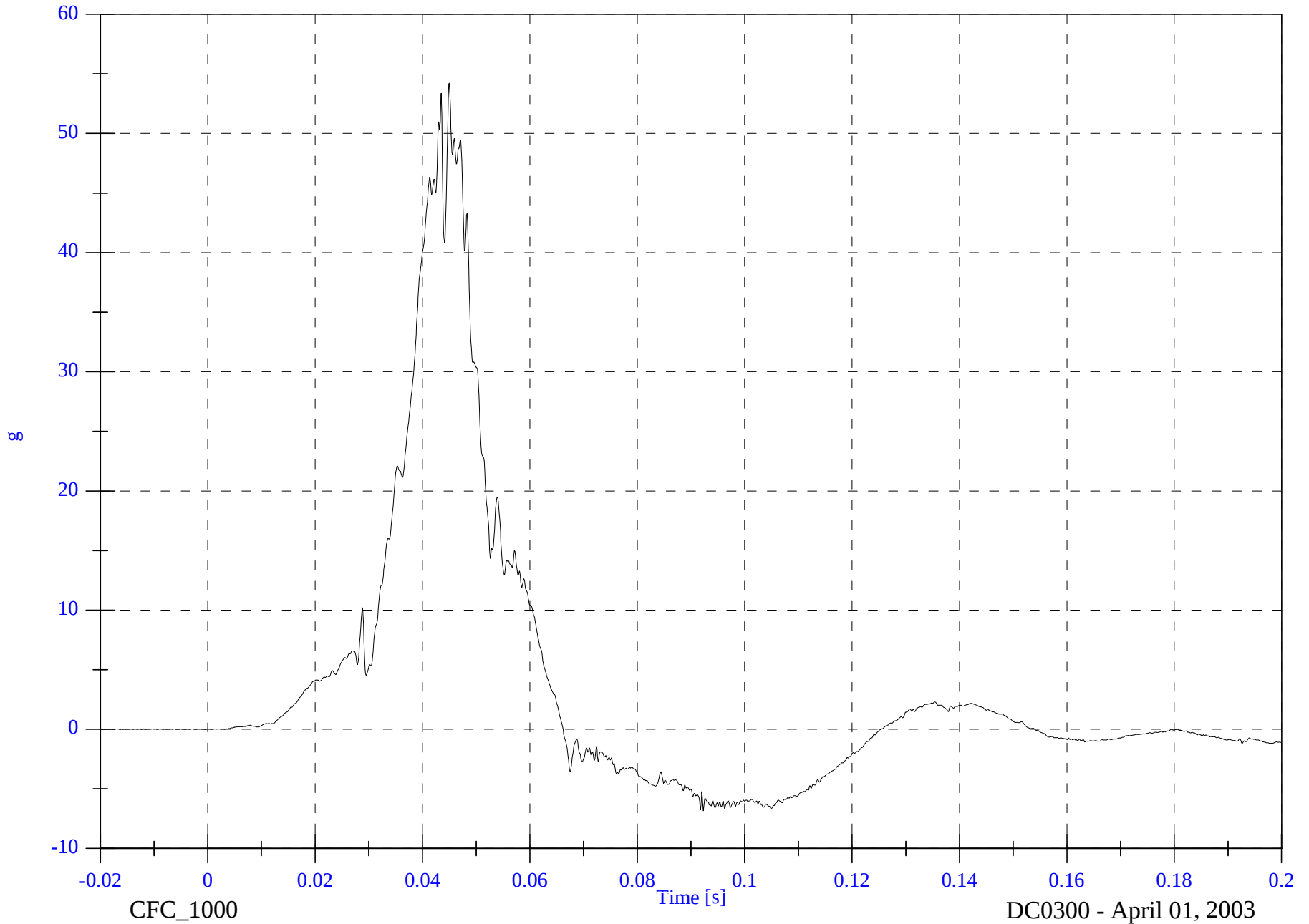
V2P4 Pelvic Ry

Max: 54.2 [g] at 0.045 [s]

Min: -6.8 [g] at 0.092 [s]

B-141

8700-01

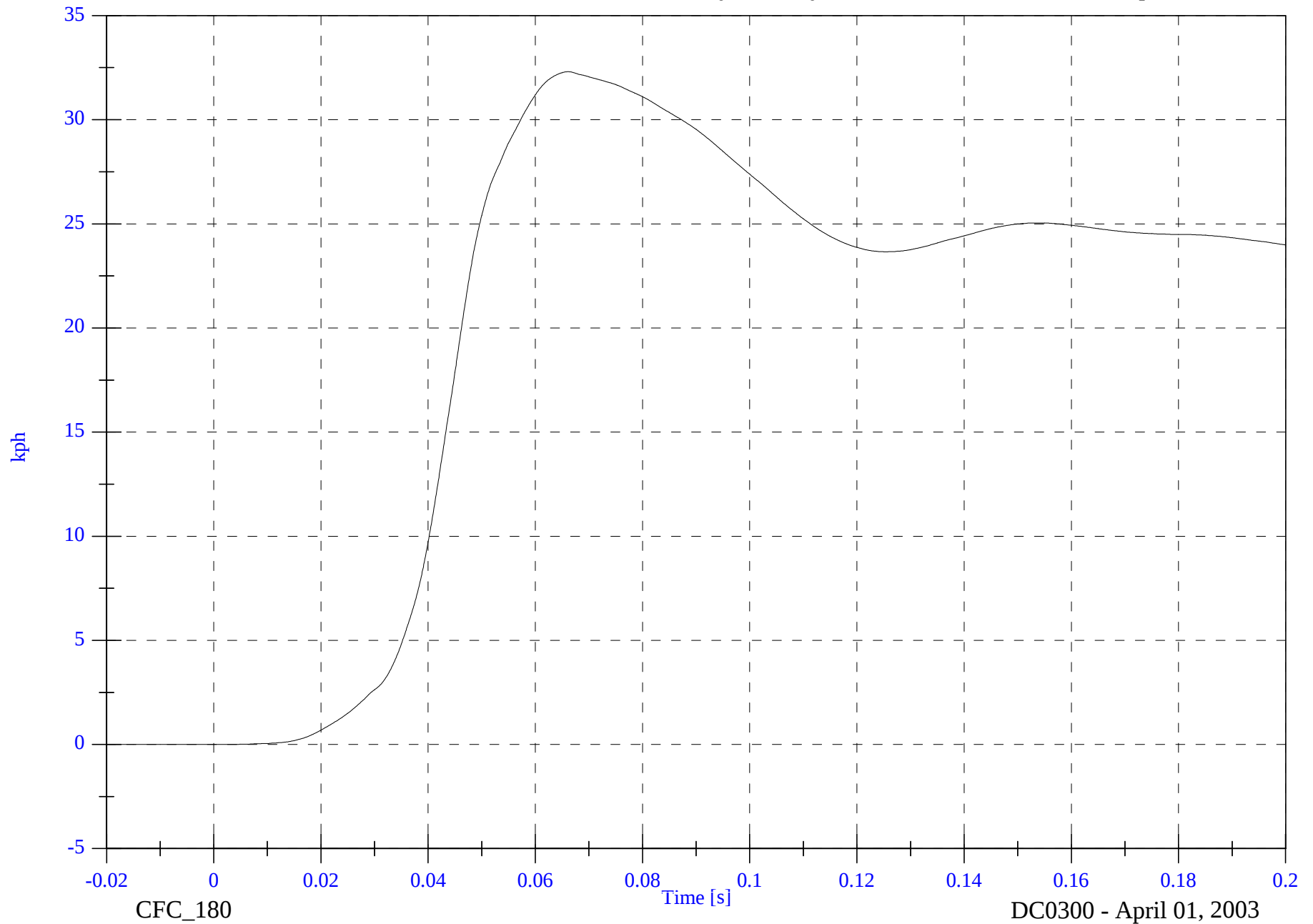


2004 Chrysler Pacifica Optional SNCAP

V2P4 Pelvic Ry Velocity

Max: 32.3 [kph] at 0.066 [s]

Min: -0.0 [kph] at -0.020 [s]



B-142

8700-01

2004 Chrysler Pacifica Optional SNCAP

V2P1 Upper Rib Ry

Max: 25.0 [g] at 0.039 [s]

Min: -4.3 [g] at 0.101 [s]

B-143

8700-01



2004 Chrysler Pacifica Optional SNCAP

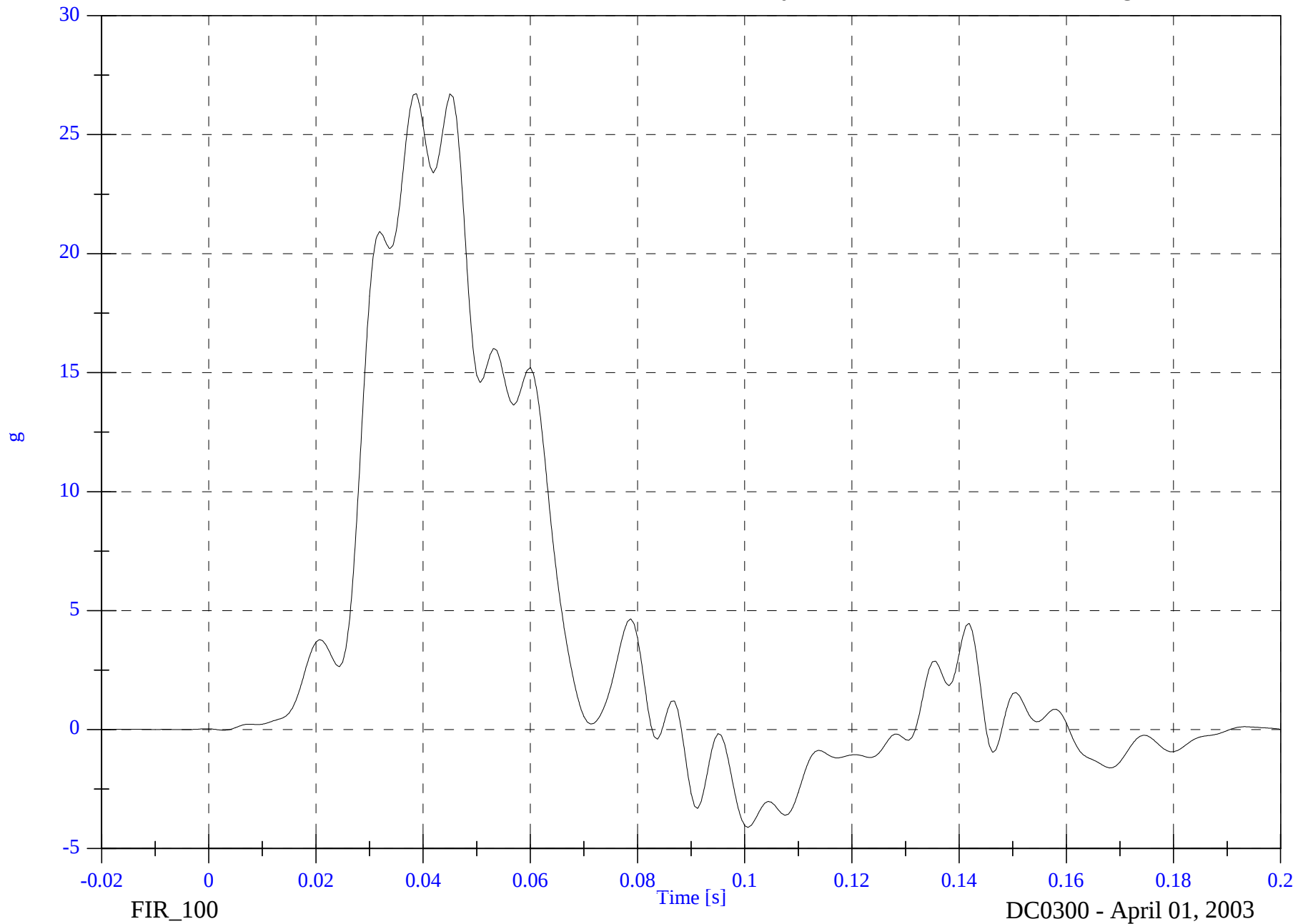
V2P1 Lower Rib Ry

Max: 26.7 [g] at 0.039 [s]

Min: -4.1 [g] at 0.101 [s]

B-144

8700-01



2004 Chrysler Pacifica Optional SNCAP

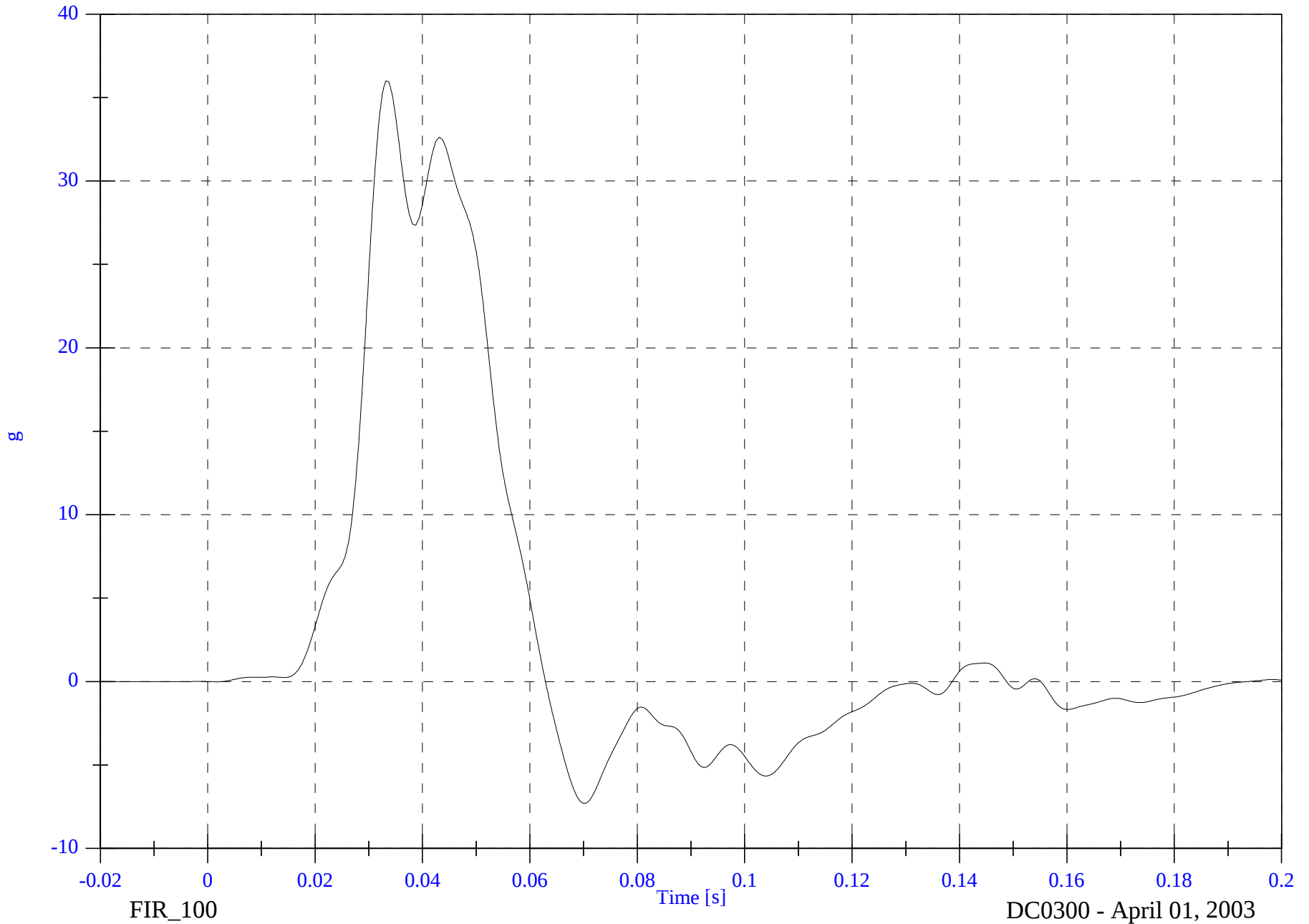
V2P1 Lower Spine Ry

Max: 36.0 [g] at 0.033 [s]

Min: -7.3 [g] at 0.070 [s]

B-145

8700-01



2004 Chrysler Pacifica Optional SNCAP

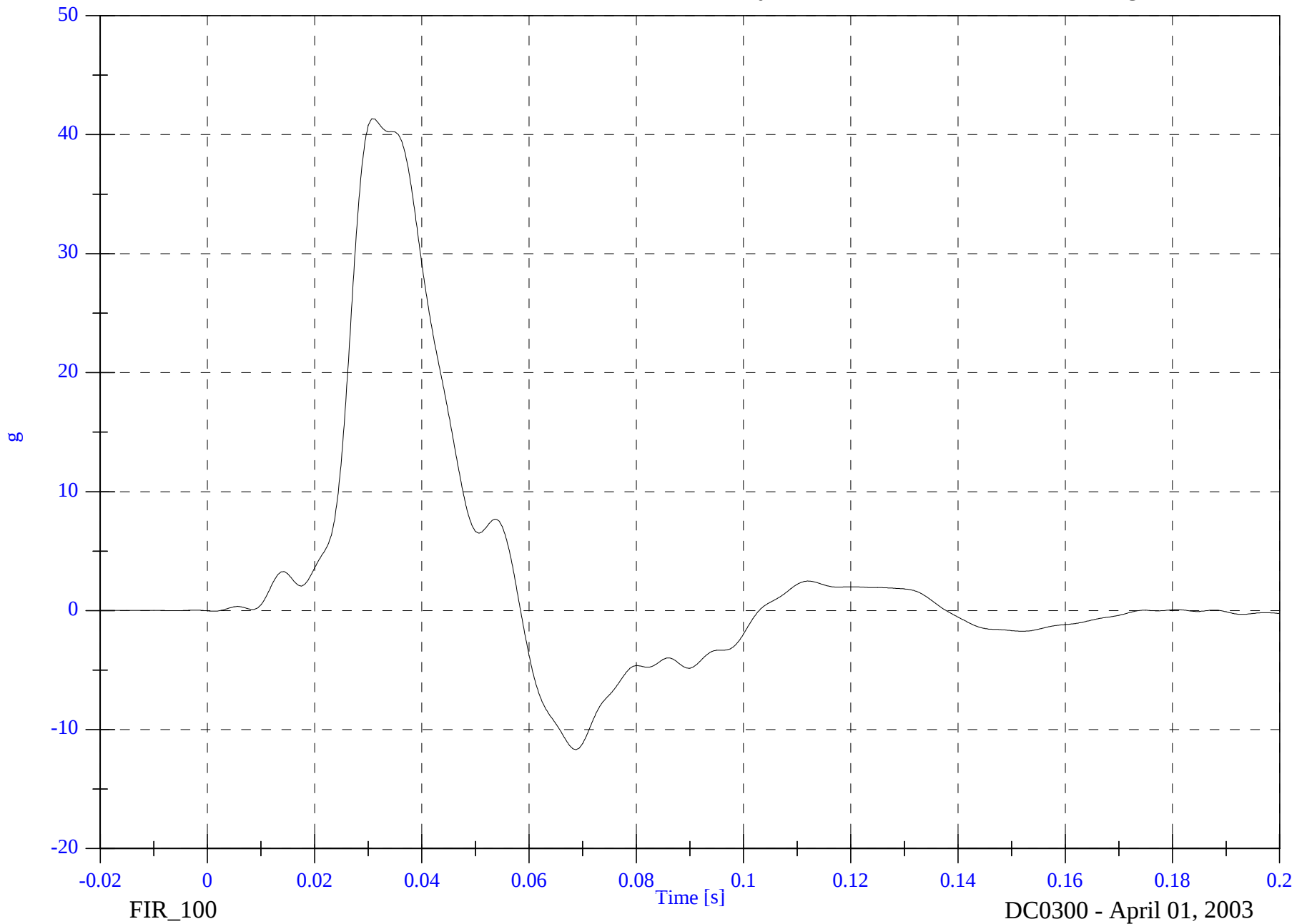
V2P1 Pelvic Ry

Max: 41.3 [g] at 0.031 [s]

Min: -11.7 [g] at 0.069 [s]

B-146

8700-01

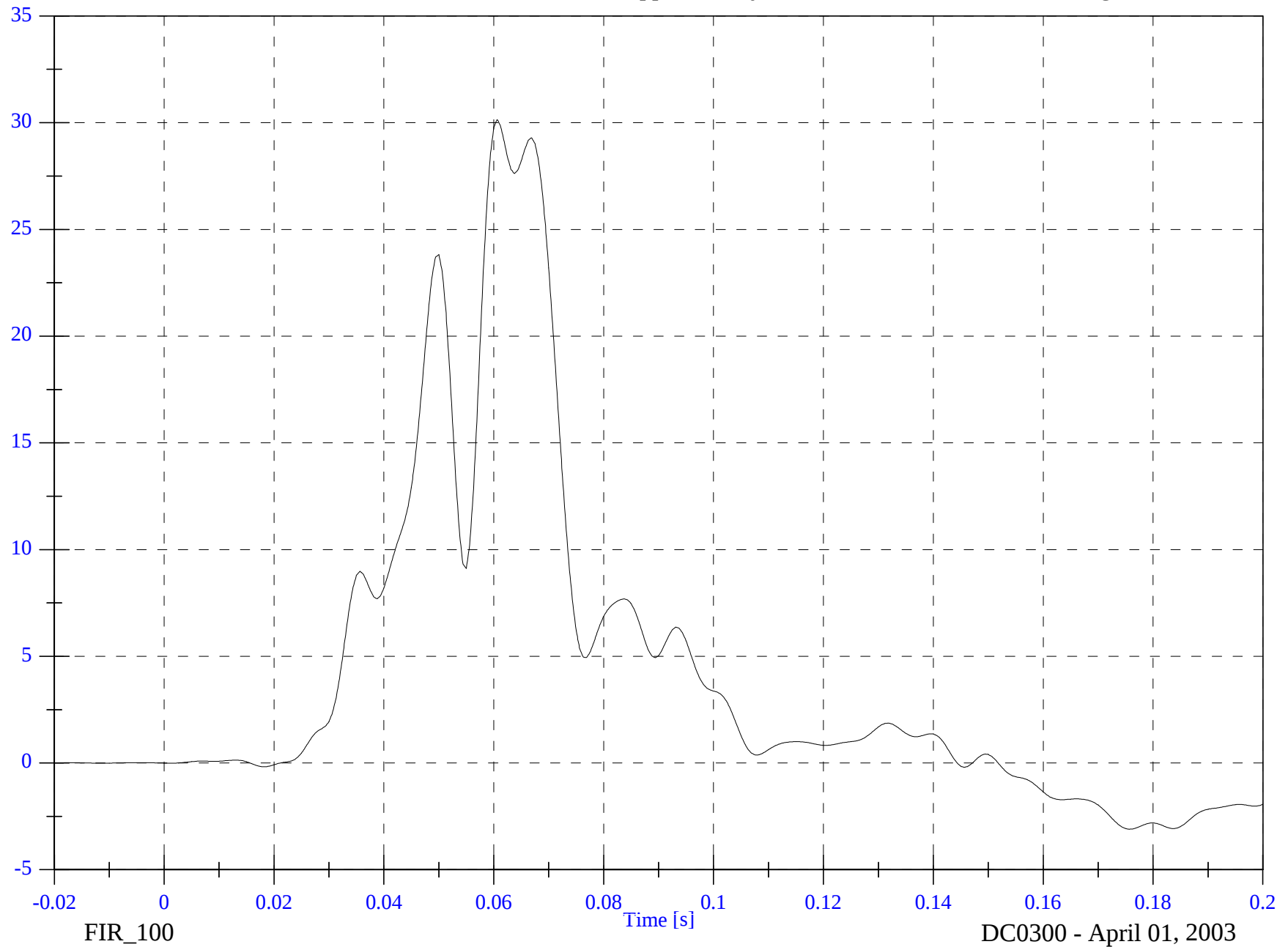


2004 Chrysler Pacifica Optional SNCAP

V2P4 Upper Rib Ry

Max: 30.1 [g] at 0.061 [s]

Min: -3.1 [g] at 0.176 [s]



B-147

8700-01

2004 Chrysler Pacifica Optional SNCAP

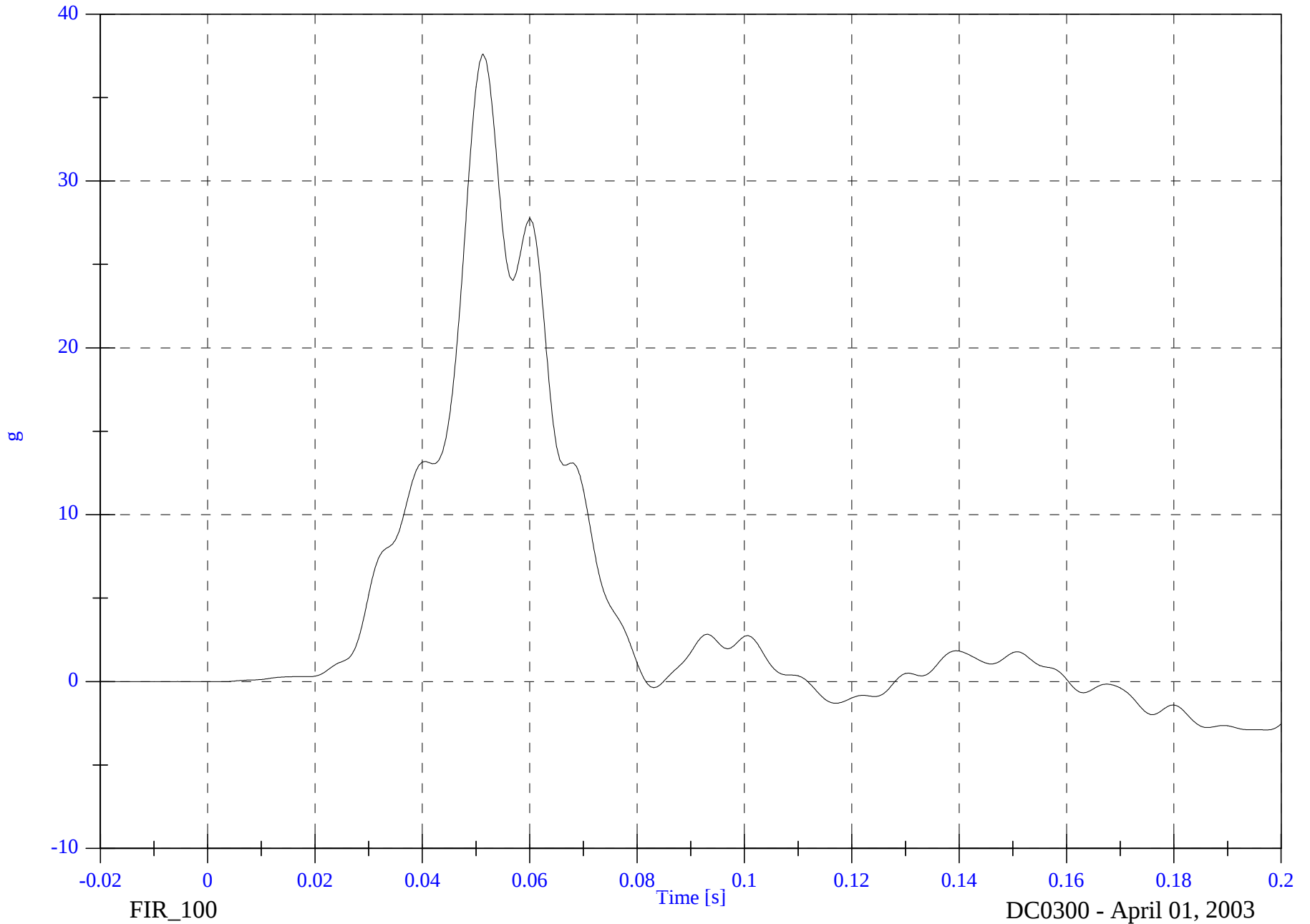
V2P4 Lower Rib Ry

Max: 37.6 [g] at 0.051 [s]

Min: -2.9 [g] at 0.198 [s]

B-148

8700-01



2004 Chrysler Pacifica Optional SNCAP

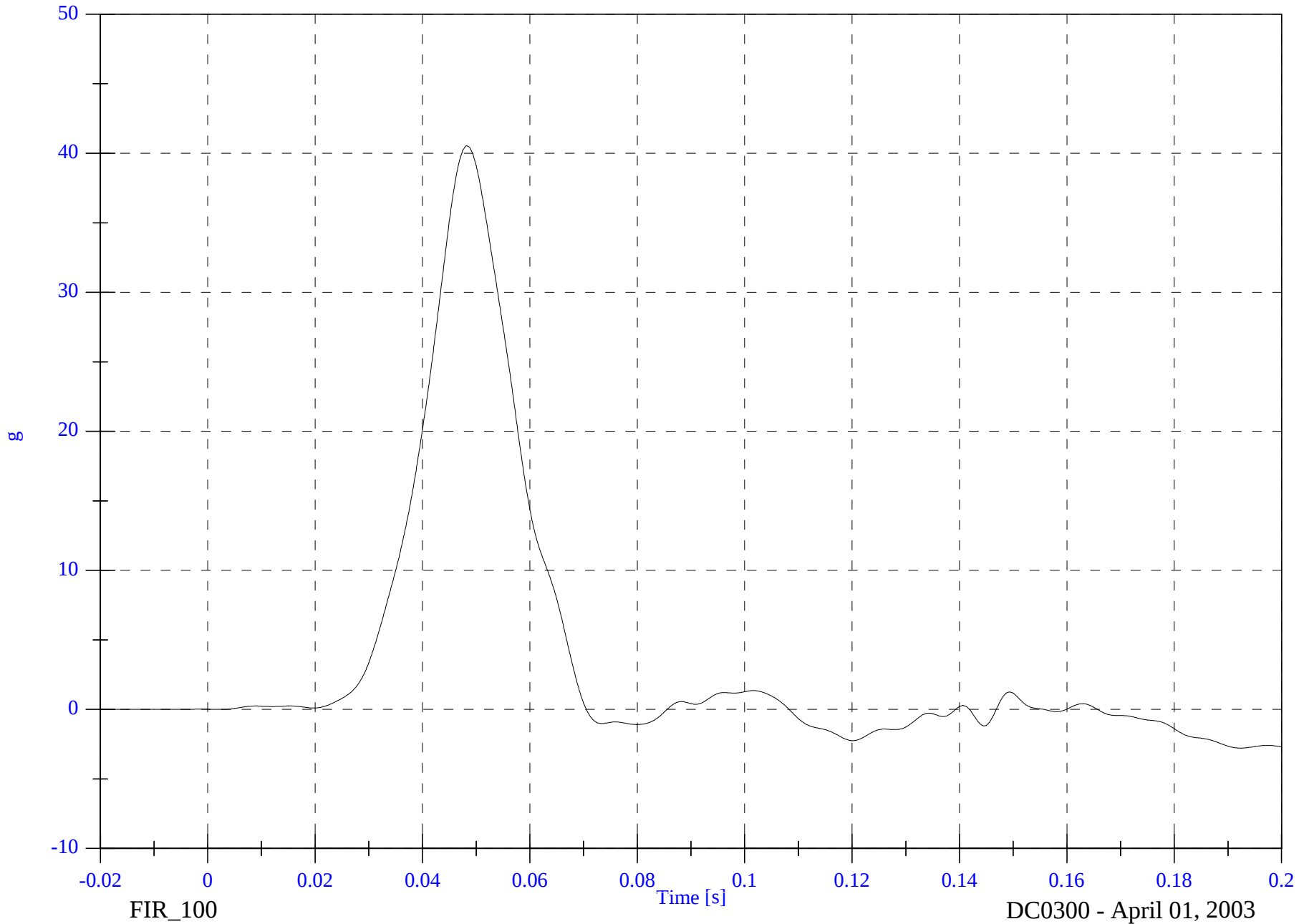
V2P4 Lower Spine Ry

Max: 40.5 [g] at 0.048 [s]

Min: -2.8 [g] at 0.192 [s]

B-149

8700-01

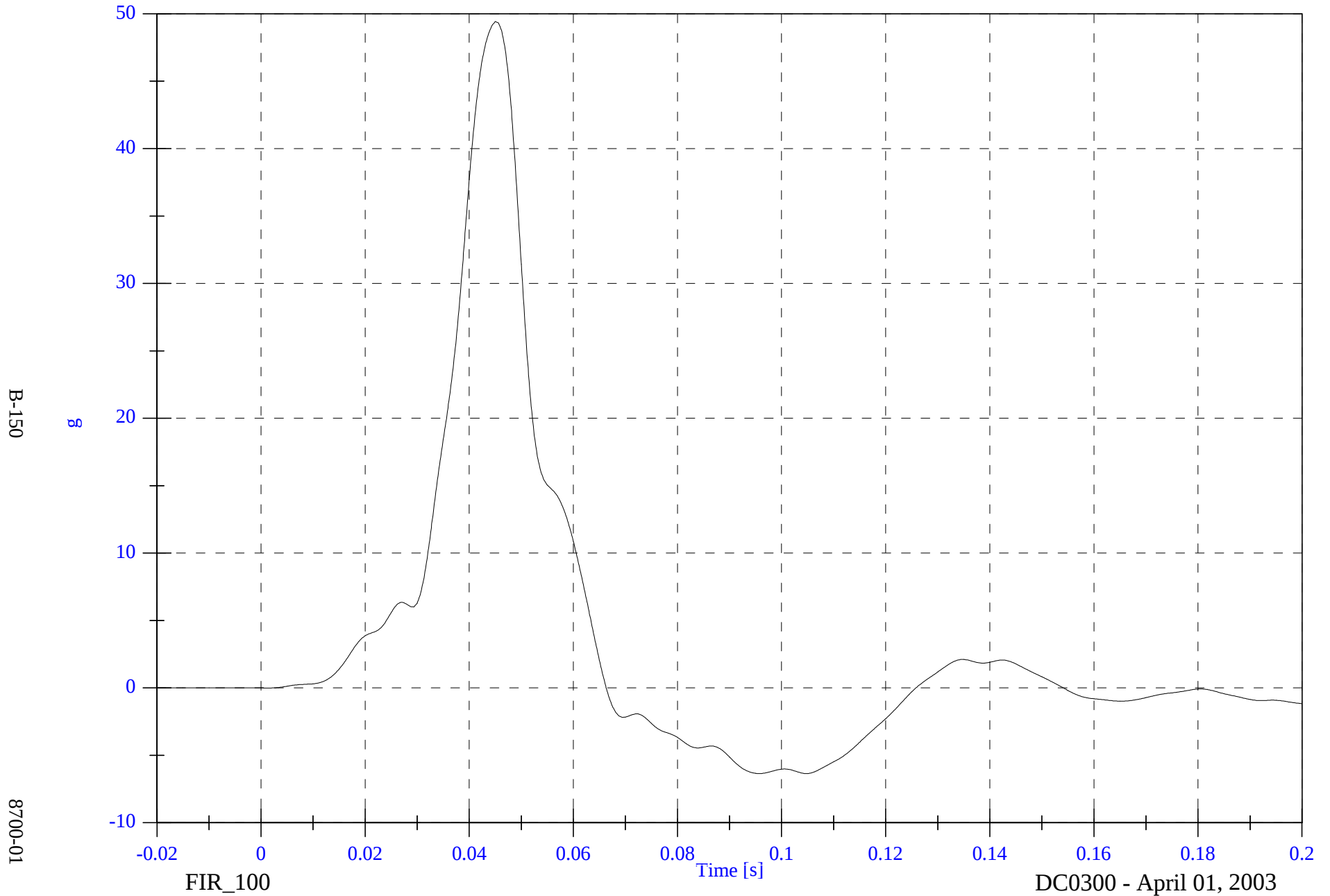


2004 Chrysler Pacifica Optional SNCAP

V2P4 Pelvic Ry

Max: 49.4 [g] at 0.045 [s]

Min: -6.4 [g] at 0.105 [s]



APPENDIX C

SID HYBRID III CONFIGURATION AND PERFORMANCE VERIFICATION DATA

SUMMARY
SID H3 PRE & POST TEST CALIBRATION
CONFIGURED FOR LEFT SIDE IMPACT

Date: March 27, 2003; April 4, 2004

Sequential Test Number:

3; 4

Laboratory Technician:

B. Swiecicki

TEST PARAMETER	SPECIFICATION	SID H3 015 NO.:		SID H3 016 NO.:	
		PRE TEST	POST TEST	PRE TEST	POST TEST
SH- Seated Height (mm)	889 - 909	902	902	902	902
RH- Rib Height (mm)	501 - 521	511	511	513	513
HP- Hip Pivot Height (mm)	99 ref.	99	99	99	99
RD- Rib from Back Line (mm)	229 - 241	236	239	236	239
KV- Knee Pivot from Back Line (mm)	511 - 526	521	521	521	521
SW- Knee Pivot to Floor (mm)	490 - 505	493	493	495	495
HW- Hip Width (mm)	356 - 391	376	381	368	371
THORAX IMPACTS					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.7	21.1
RELATIVE HUMIDITY (%)	10 -70	35	31.00	36	31.00
PROBE SPEED (m/s)	4.27 - 4.33	4.27	4.28	4.29	4.27
UPPER RIB (g's)	37 - 46	37.99	41.83	41.98	42.43
LOWER RIB (g's)	37 - 46	38.07	38.49	41.69	40.05
LOWER SPINE (g's)	15 -22	18.62	18.75	21.92	20.37
PELVIS IMPACT					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.7	21.1
RELATIVE HUMIDITY (%)	10 - 70	35	32.00	36	34.0
PROBE SPEED (m/s)	4.27 - 4.33	4.27	4.28	4.32	4.27
PELVIS (g's)	40 -60	44.32	40.27	43.48	45.33

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 015

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
THORACIC SHOCK ABSORBER TEST	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 – 909	902
RH- Rib Height (mm)	502 – 520	511
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 – 241	236
KH- Knee Pivot from Back Line (mm)	511 – 526	521
KV- Knee Pivot to Floor (mm)	490 – 505	493
HW- Hip Width (mm)	356 - 391	376

REMARKS: None

**THORACIC SHOCK ABSORBER TESTS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 3
Date: February 3, 2003 Laboratory Technician: B. Swiecicki

DAMPER IDENTIFICATION: _____

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)		18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)		10 - 70	29.00
VELOCITY 3.05 m/s	FORCE (N)	836 - 1125	1122.40
	DISPLACEMENT (mm)	30 - 35	30.16
VELOCITY 4.27 m/s	FORCE (N)	1730 - 2099	2063.48
	DISPLACEMENT (mm)	32 - 37	35.62
VELOCITY 6.10 m/s	FORCE (N)	3741 - 4448	4399.67
	DISPLACEMENT (mm)	33 - 40	38.49

DAMPER SETTING: 5 _____

REMARKS: None

015 Shock Low at 3.05 m/s

Low Part 572F Shock Absorber Impact

Calibration Date:

02-03-03

Serial No:

015

Work File:

015SL 2-03-03

-----TEST RESULTS-----

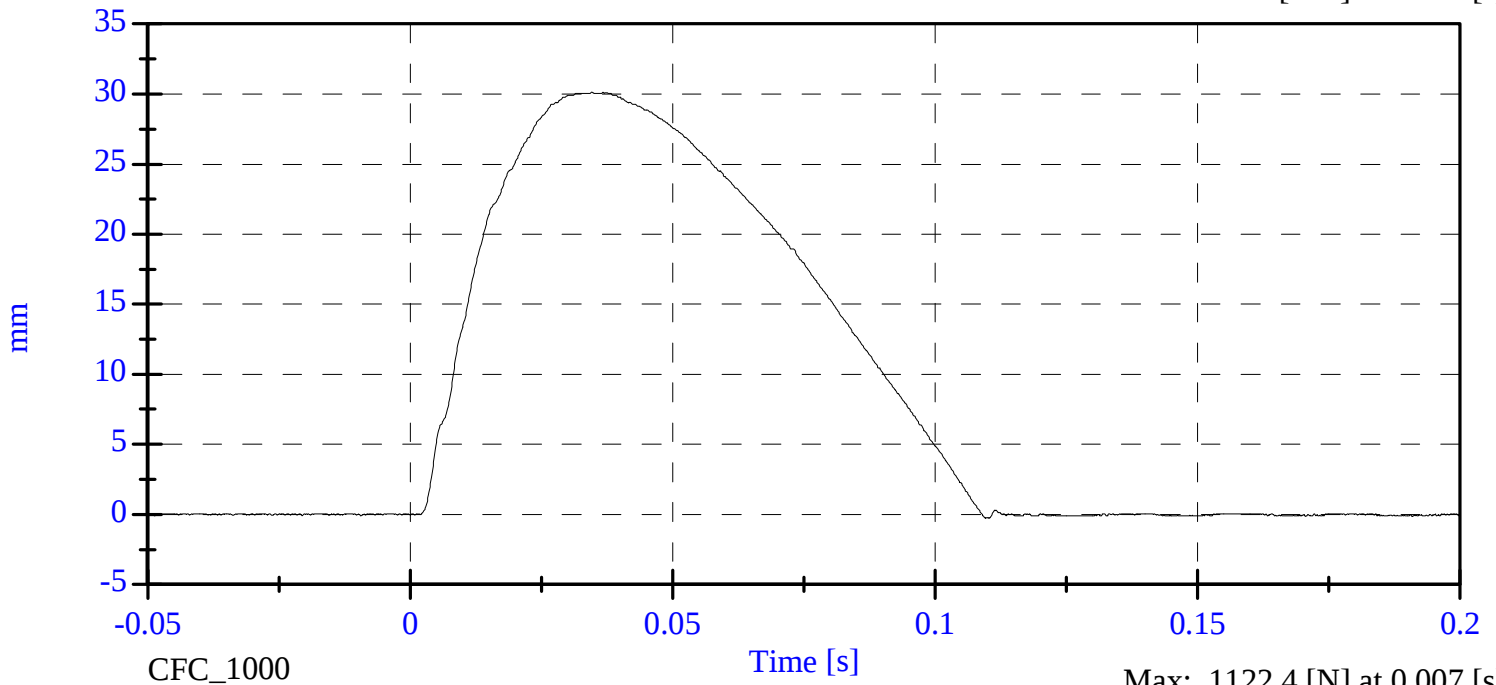
TEST CONDITION	PARAMETERS	RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Displacement:	30.00-35.00 mm	30.16 mm	Passed
Maximum Force:	836.00-1125.00 N	1122.40 N	Passed

015 Shock Low

Displacement vs. Time

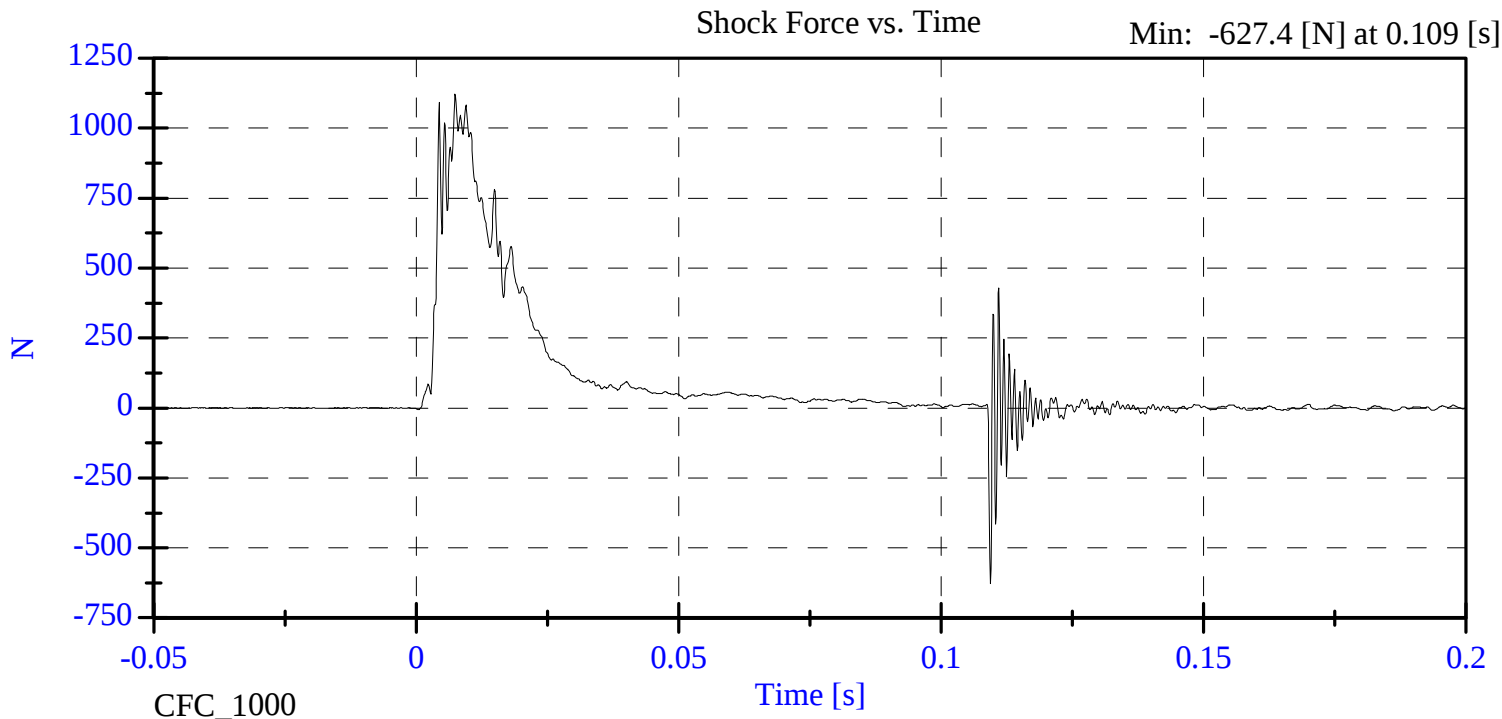
Max: 30.2 [mm] at 0.035 [s]

Min: -0.3 [mm] at 0.110 [s]



Max: 1122.4 [N] at 0.007 [s]

Min: -627.4 [N] at 0.109 [s]



015 Shock Medium at 4.27 m/s

Medium Part 572F Shock Absorber Impact

Calibration Date:

02-03-03

Serial No:

015

Work File:

015SM1 2-03-03

-----TEST RESULTS-----

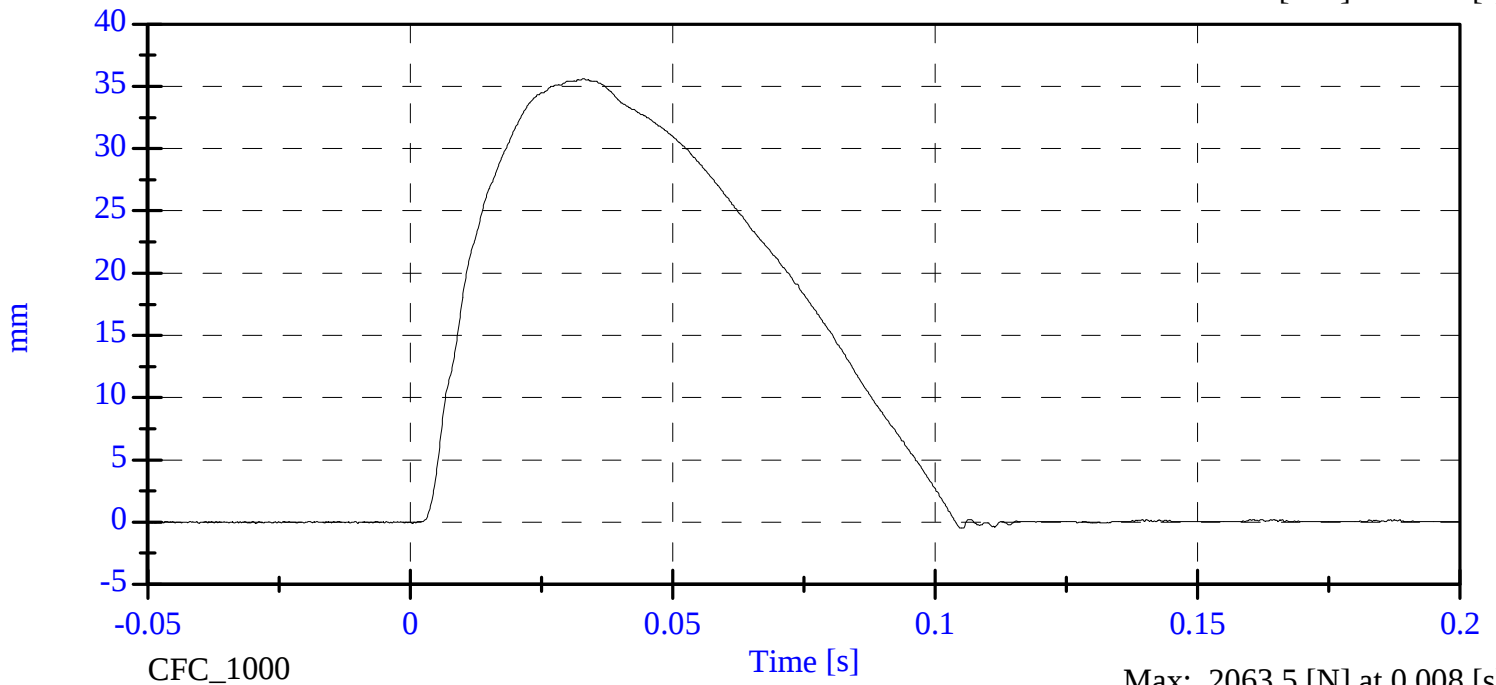
<u>TEST CONDITION</u>	<u>PARAMETERS</u>	<u>RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Displacement:	32.00-37.00 mm	35.62 mm	Passed
Maximum Force:	1730.00-2099.00 N	2063.48 N	Passed

015 Shock Medium

Displacement vs. Time

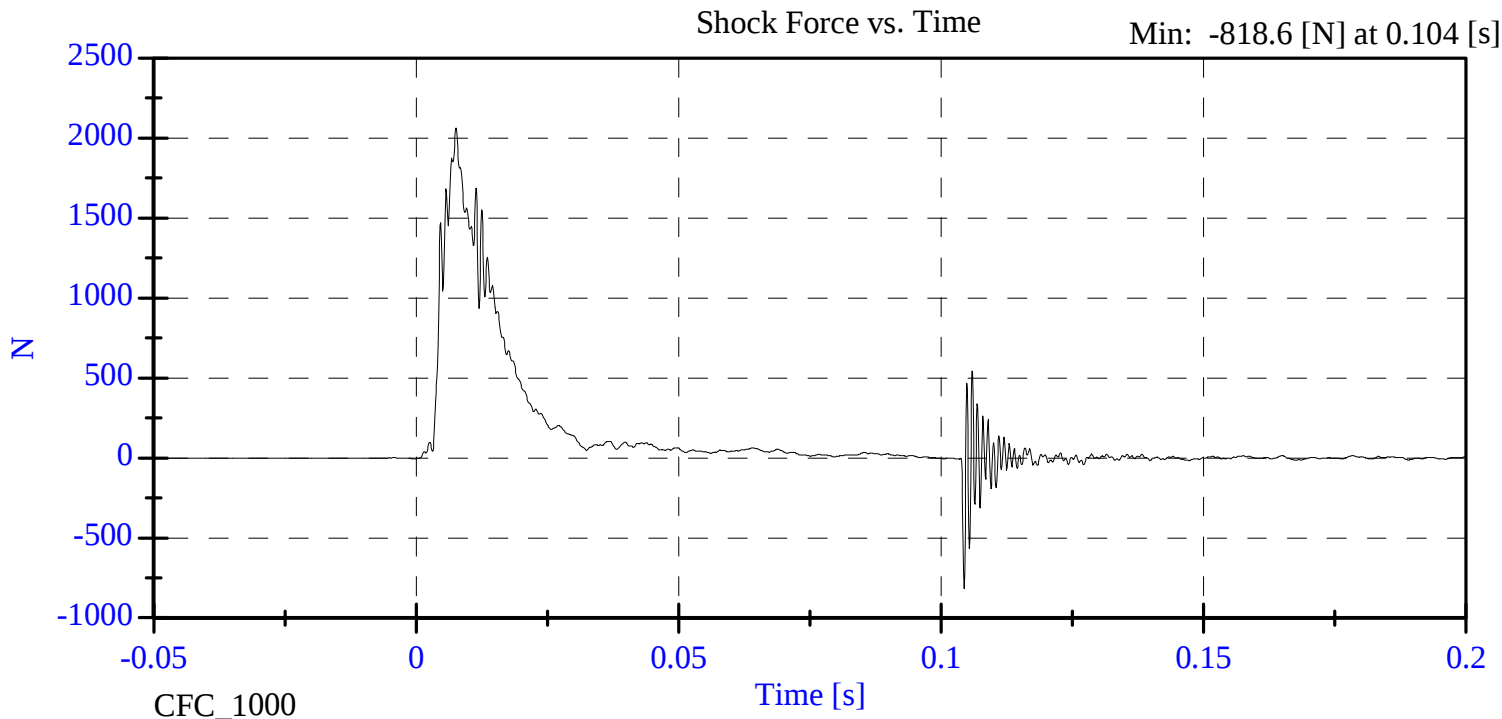
Max: 35.6 [mm] at 0.033 [s]

Min: -0.5 [mm] at 0.105 [s]



Max: 2063.5 [N] at 0.008 [s]

Min: -818.6 [N] at 0.104 [s]



015 Shock High at 6.10 m/s

High Part 572F Shock Absorber Impact

Calibration Date:

02-03-03

Serial No:

015

Work File:

015SH 2-03-03

-----TEST RESULTS-----

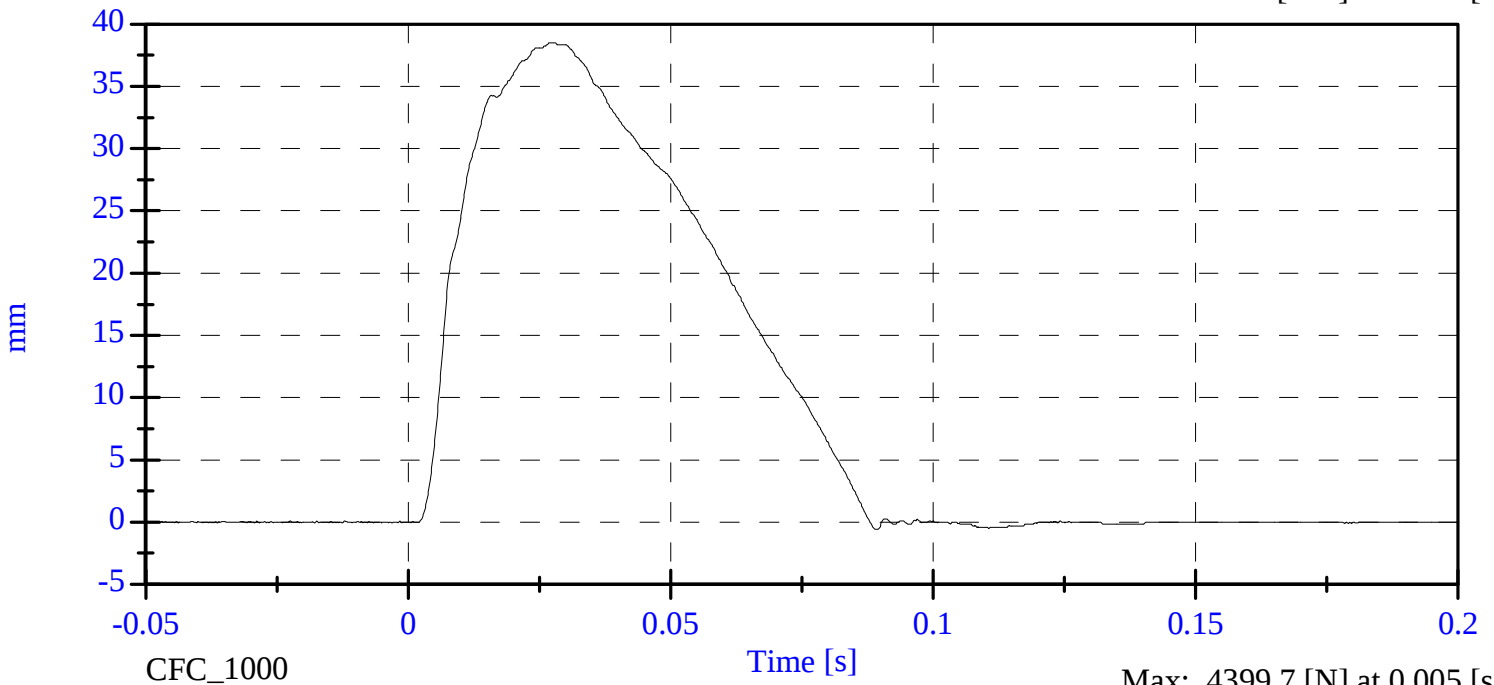
TEST CONDITION	PARAMETERS	RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Displacement:	33.00-40.00 mm	38.49 mm	Passed
Maximum Force:	3741.00-4448.00 N	4399.67 N	Passed

015 Shock High

Displacement vs. Time

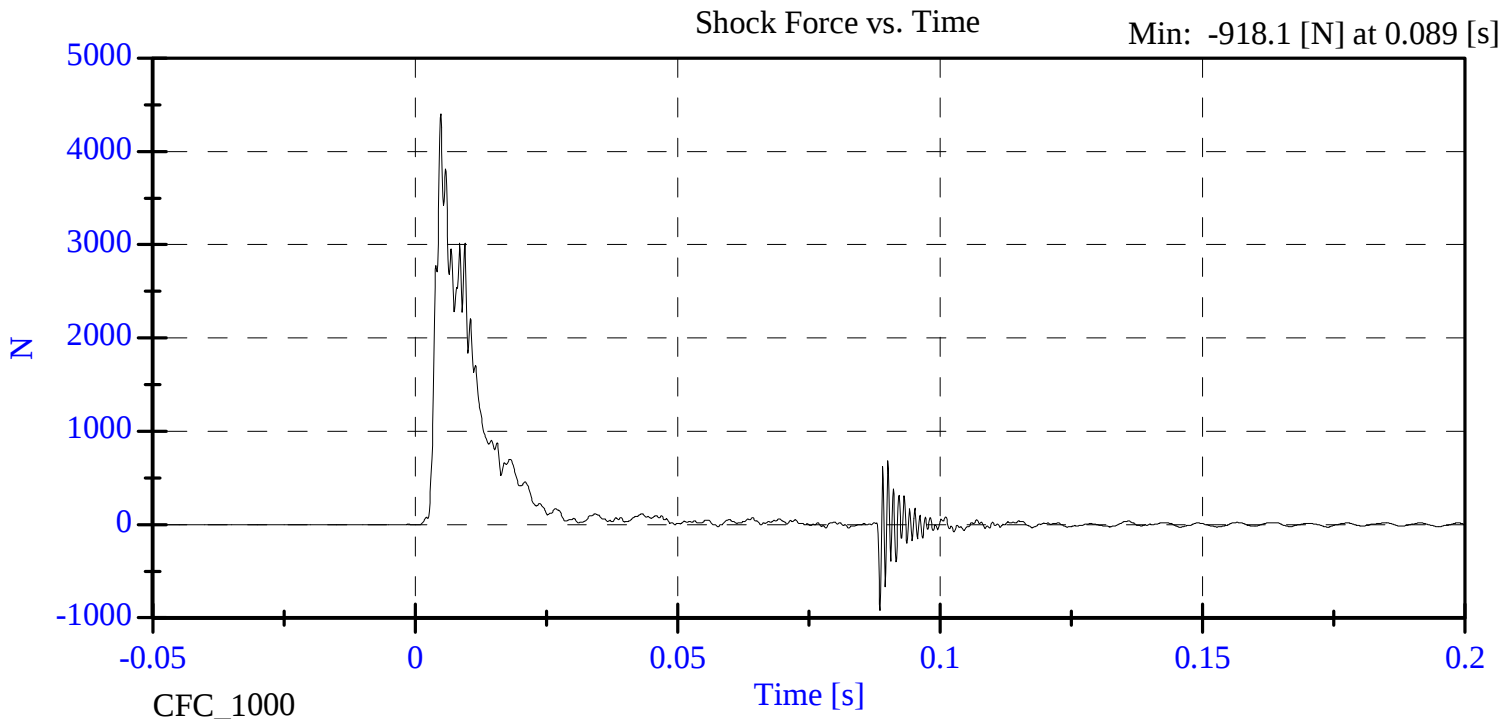
Max: 38.5 [mm] at 0.028 [s]

Min: -0.6 [mm] at 0.089 [s]



Max: 4399.7 [N] at 0.005 [s]

Min: -918.1 [N] at 0.089 [s]



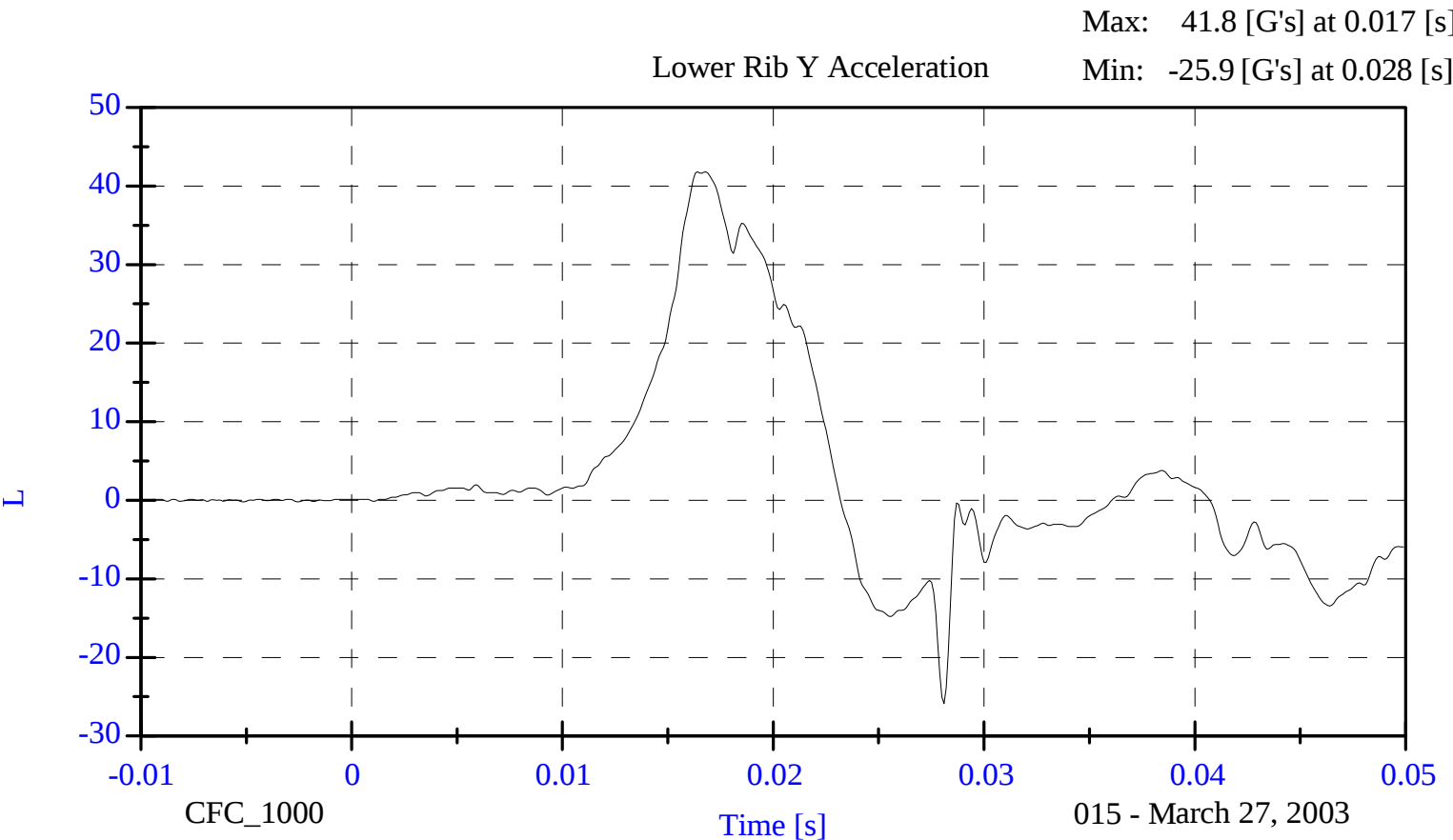
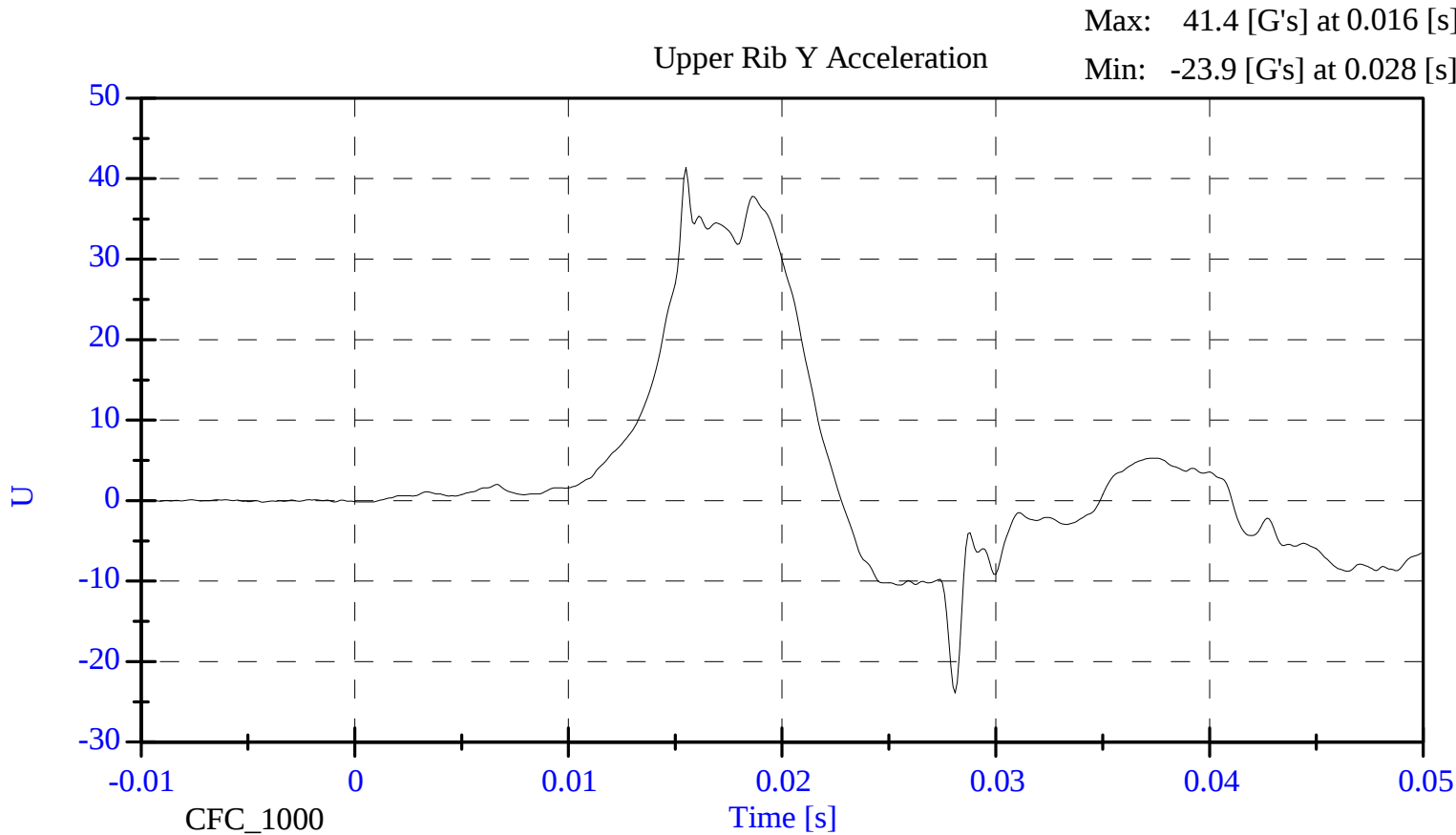
**LATERAL THORAX IMPACT TEST
PRE-TEST**

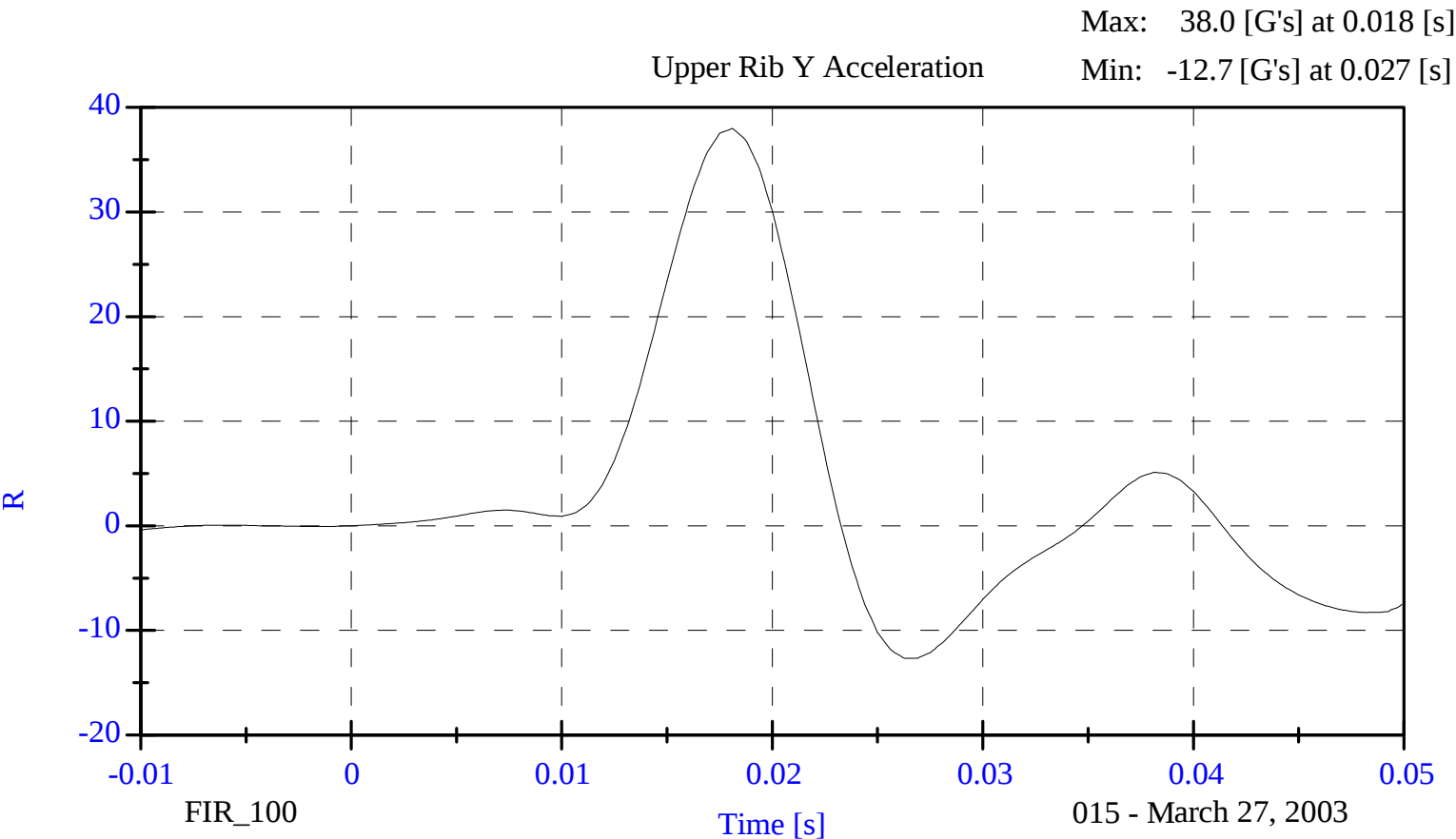
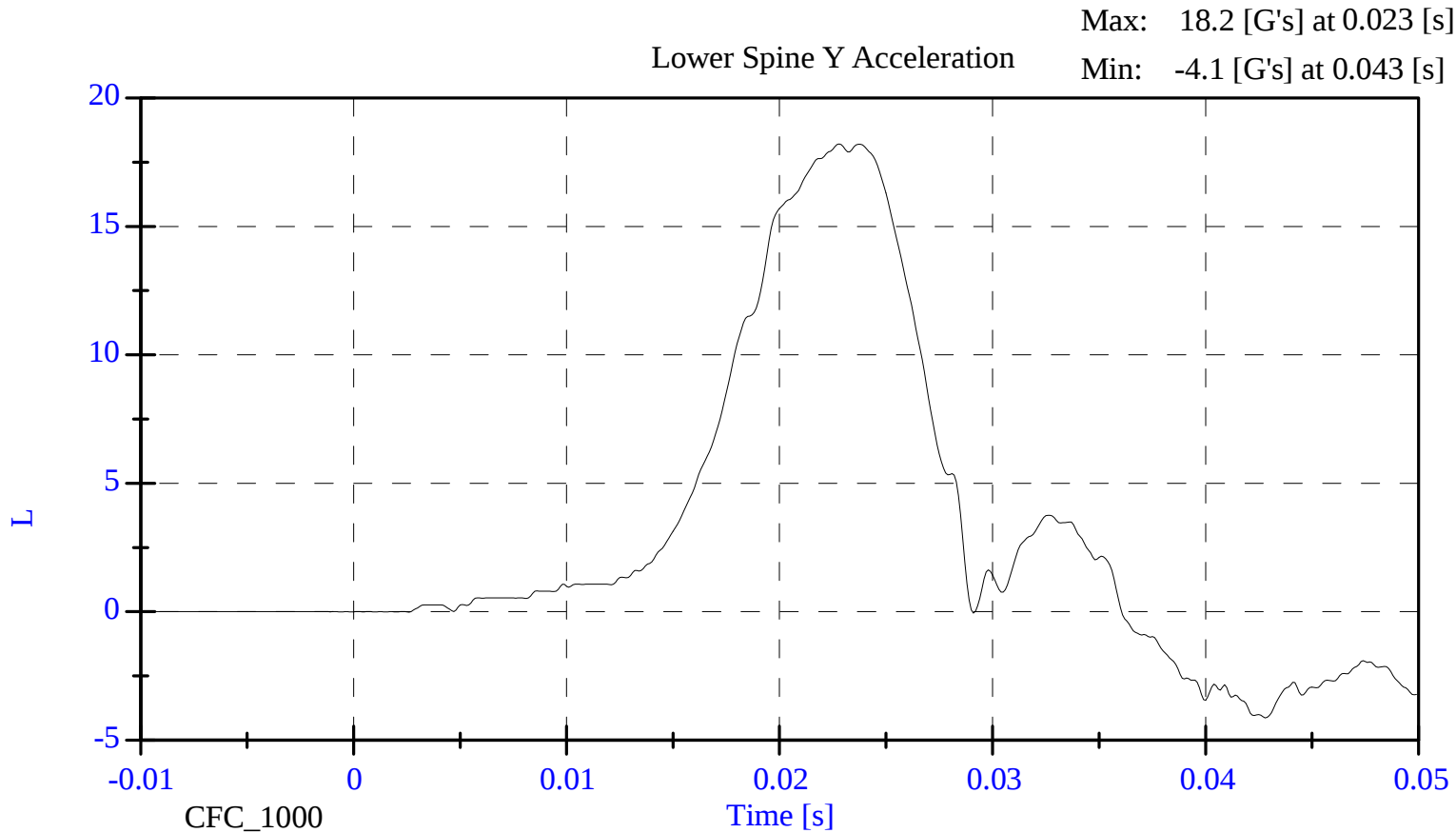
CONFIGURED FOR LEFT SIDE IMPACT

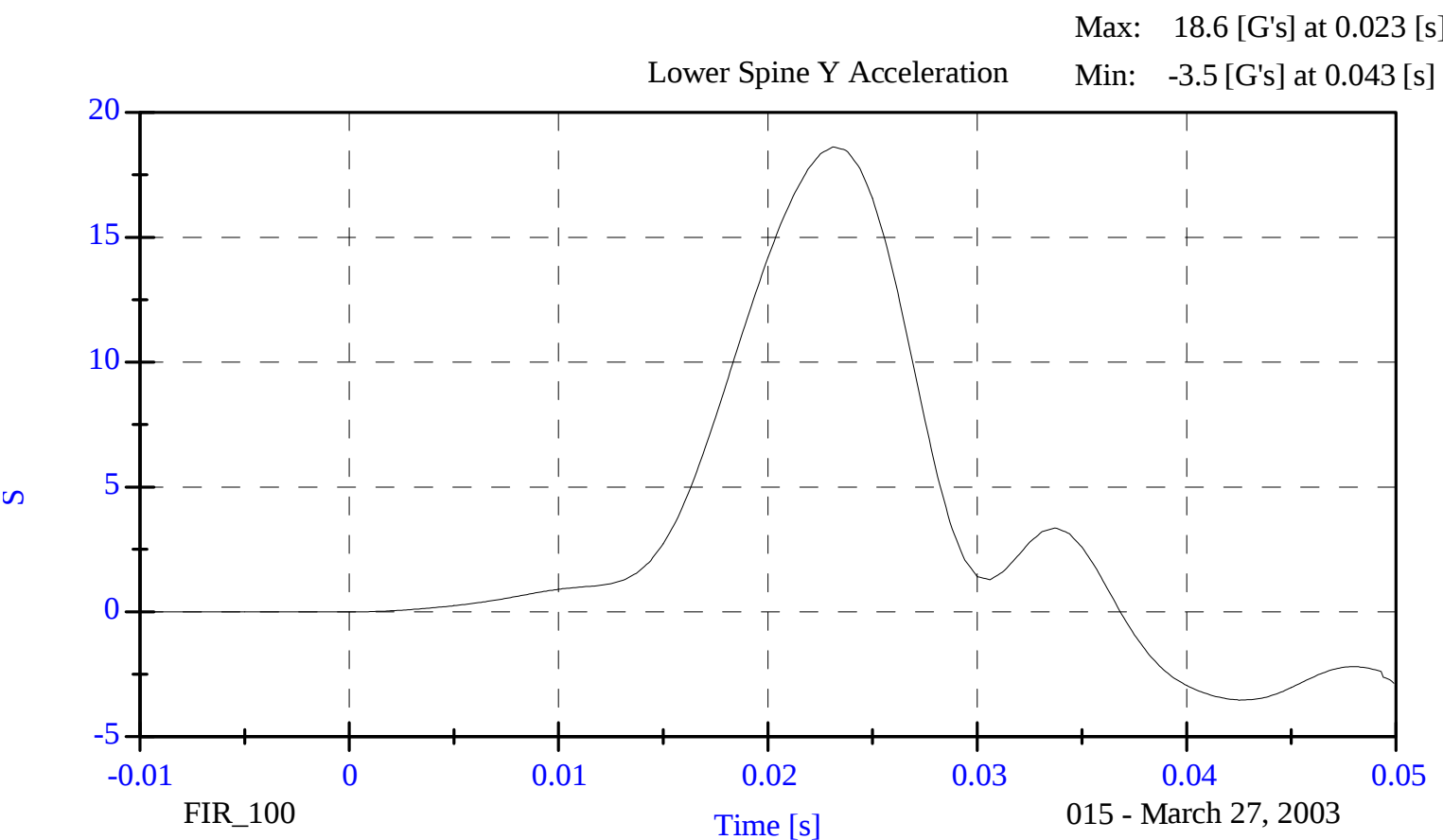
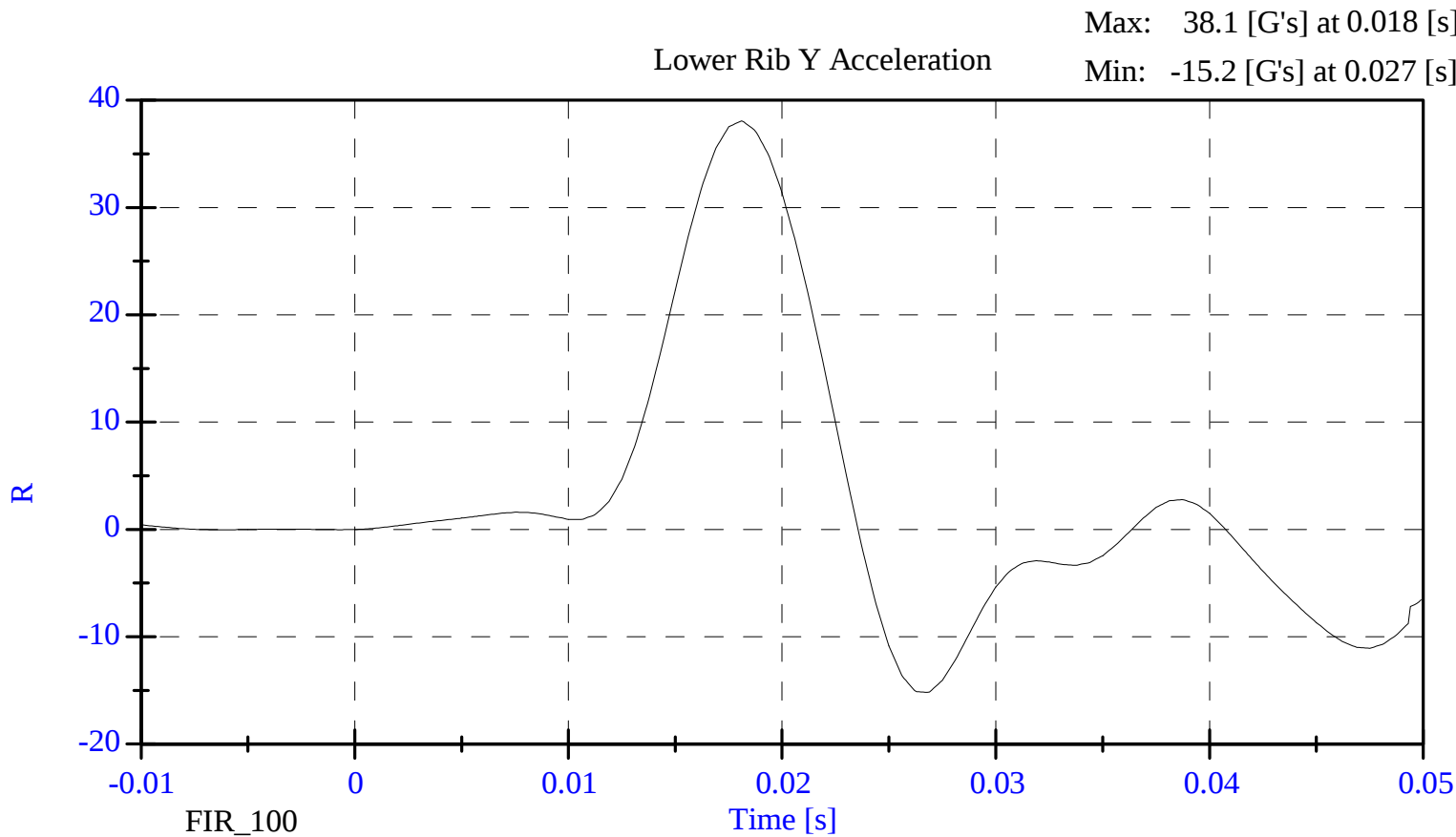
SID H3 Serial No.:	<u>015</u>	Sequential Test Number:	<u>3</u>
Date:	<u>March 27, 2003</u>	Laboratory Technician:	<u>B. Swiecicki</u>

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.00
PROBE SPEED (m/s)	4.27 - 4.33	4.27
UPPER RIB (g's)	37 - 46	37.99
LOWER RIB (g's)	37 - 46	38.07
LOWER SPINE (g's)	15 - 22	18.62

REMARKS: None







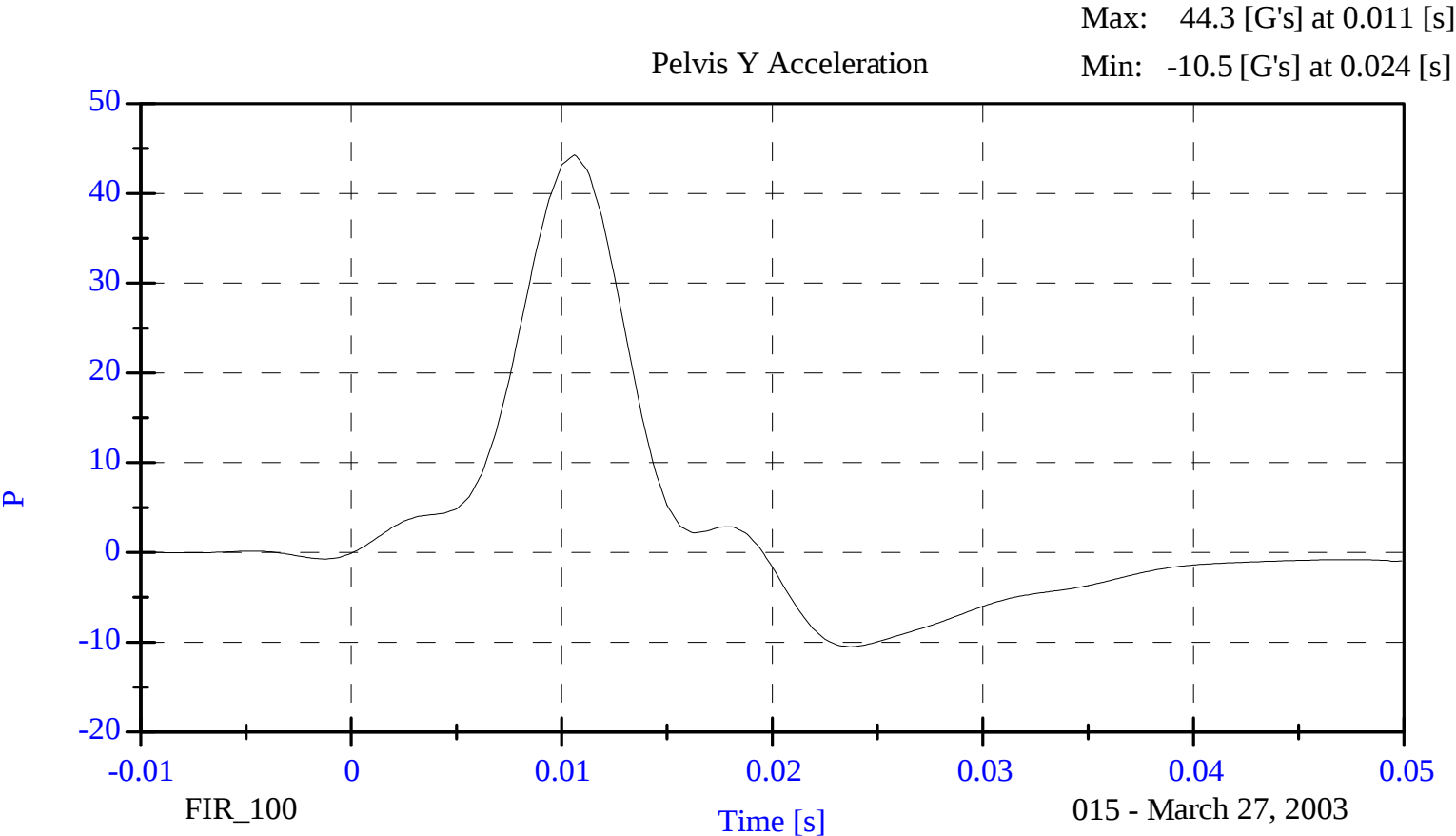
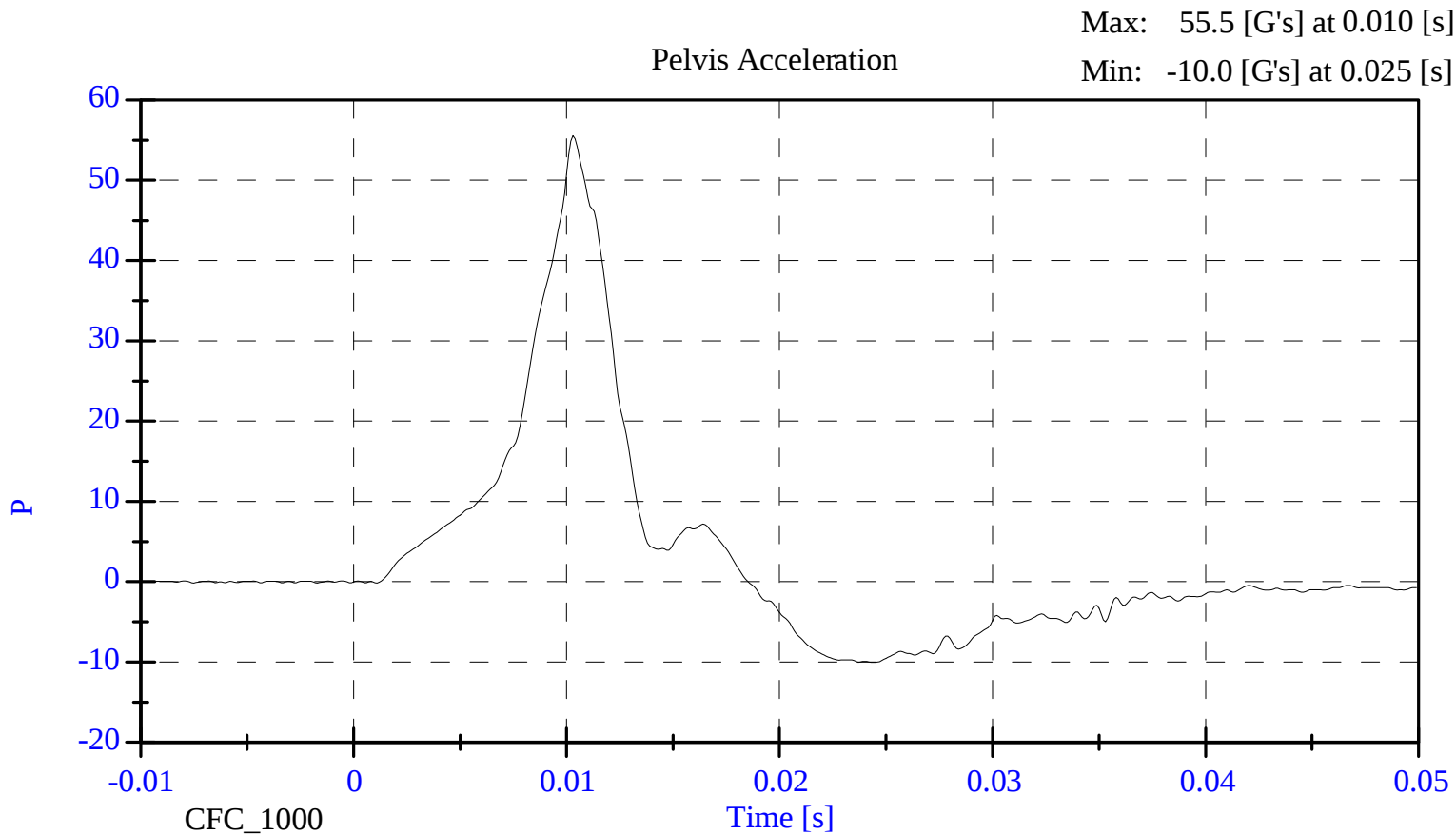
**LATERAL PELVIS IMPACT TEST
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.00
PROBE SPEED (m/s)	4.27 - 4.33	4.27
PELVIS ACCELERATION (g's)	40 - 60	44.32

REMARKS: None



**HEAD DROP TEST
PRE-TEST**
(Test not required for SID certification)

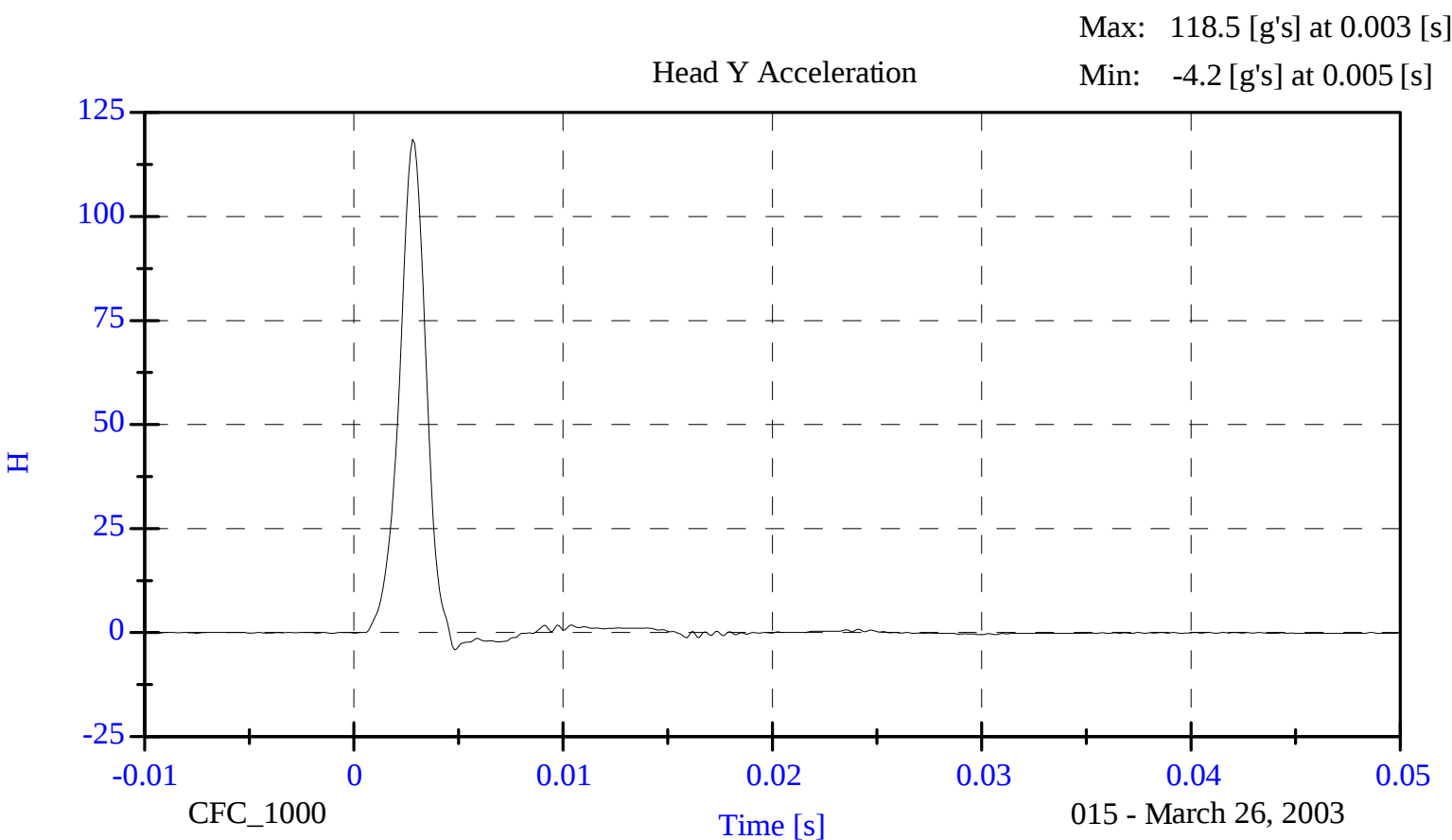
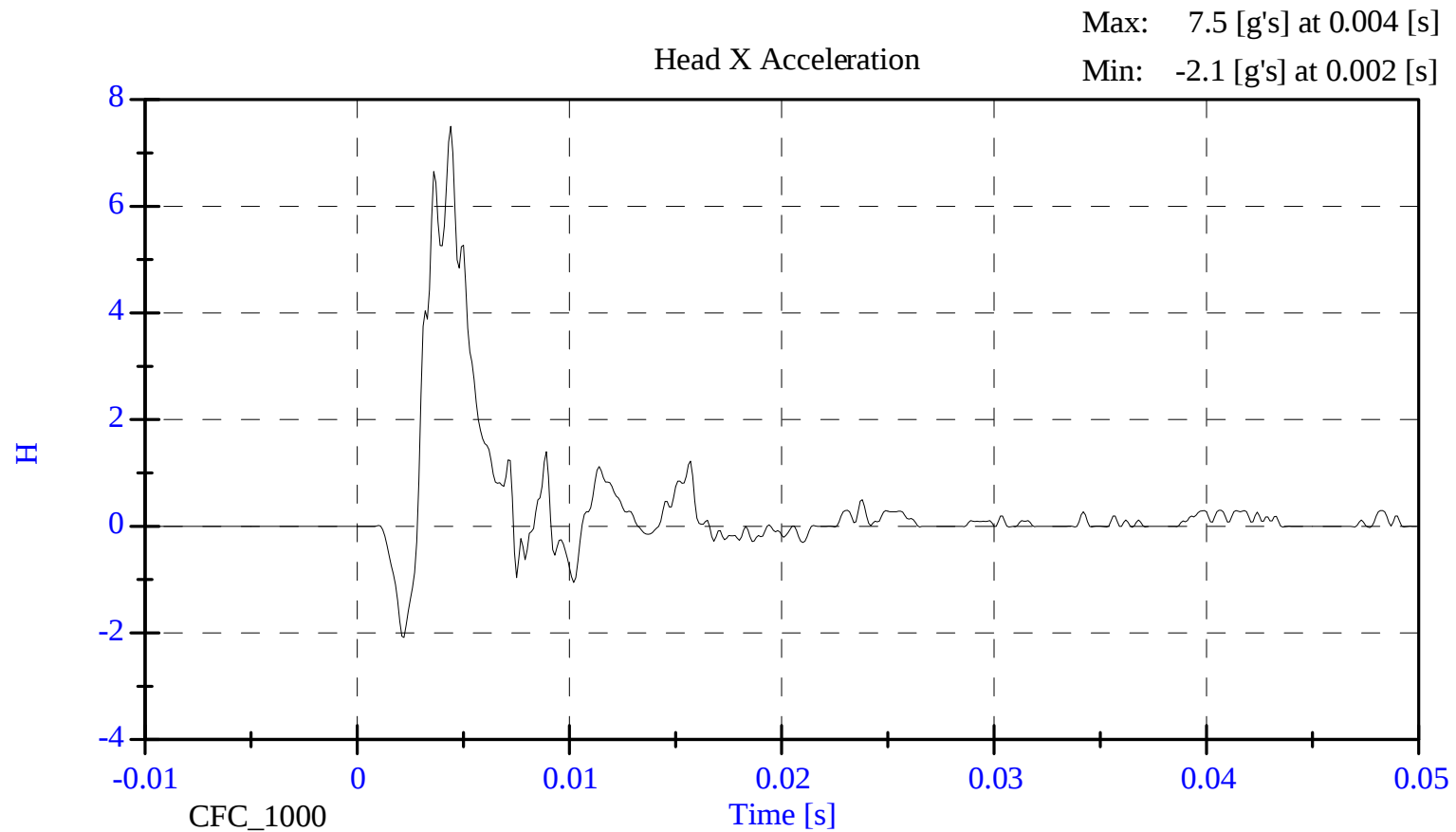
CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 015 Sequential Test Number: 3
Date: March 26, 2003 Laboratory Technician: B. Swiecicki

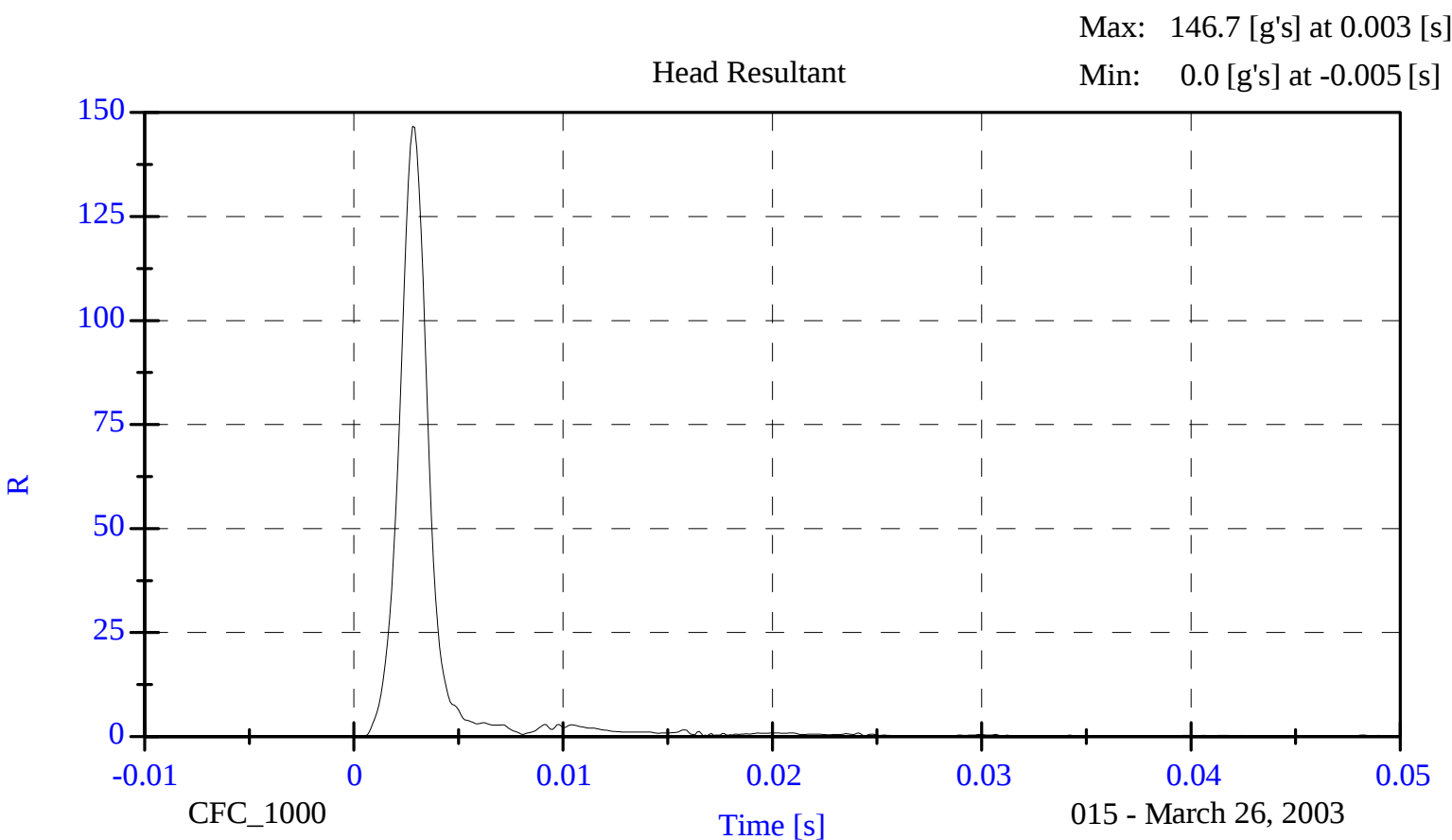
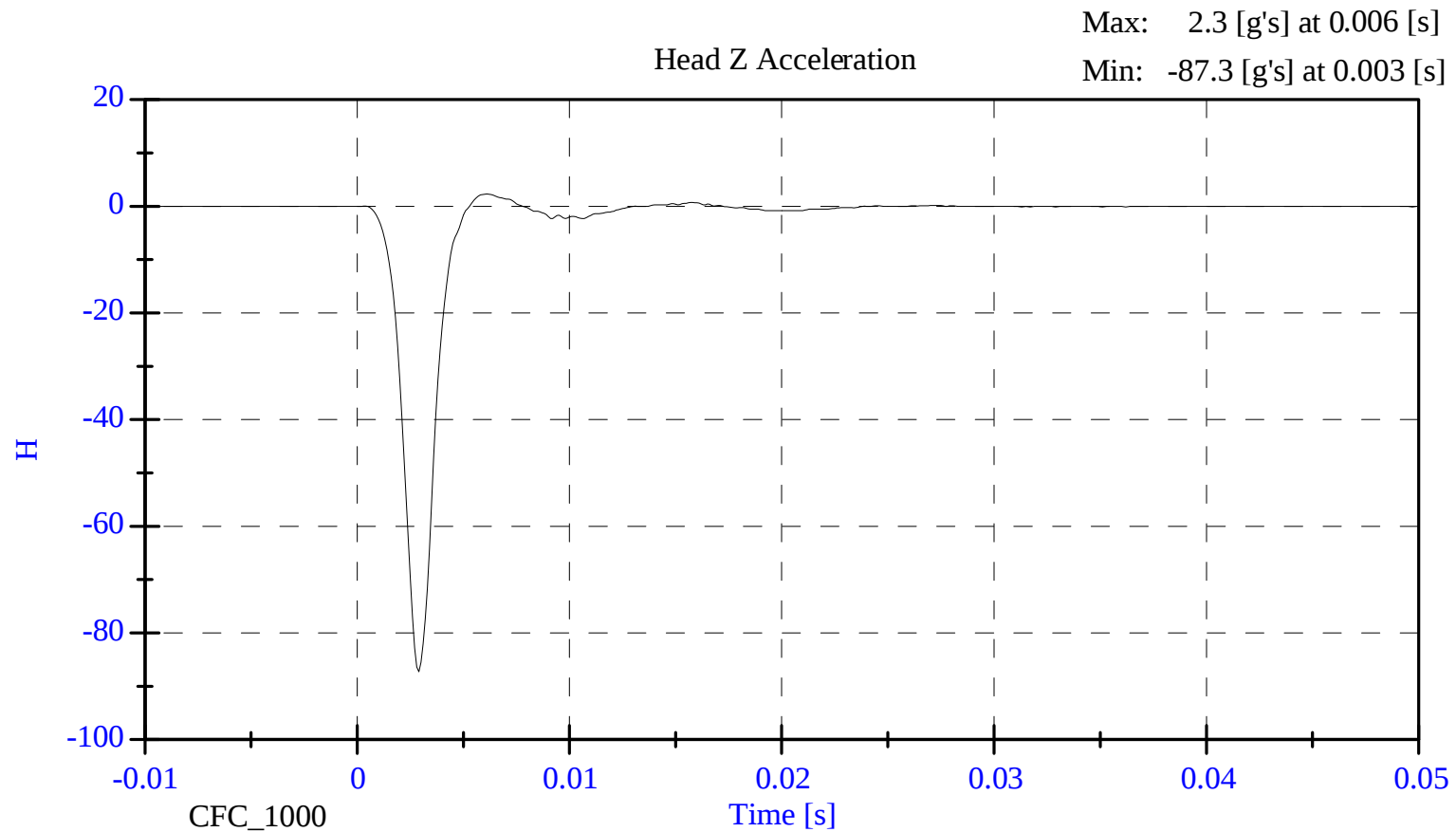
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	20.6 – 22.2	21.7
RELATIVE HUMIDITY (%)	10 – 70	31.00
PEAK RESULTANT ACCELERATION (Gs)	120 – 150	146.65
PEAK LATERAL ACCELERATION (Gs)	Not to Exceed 15	7.50
CURVE PERCENT NONMODAL (%)	< 15	2.30

REMARKS: None

Head Drop



015 - March 26, 2003



015 - March 26, 2003

**LATERAL NECK BENDING TEST
PRE-TEST**

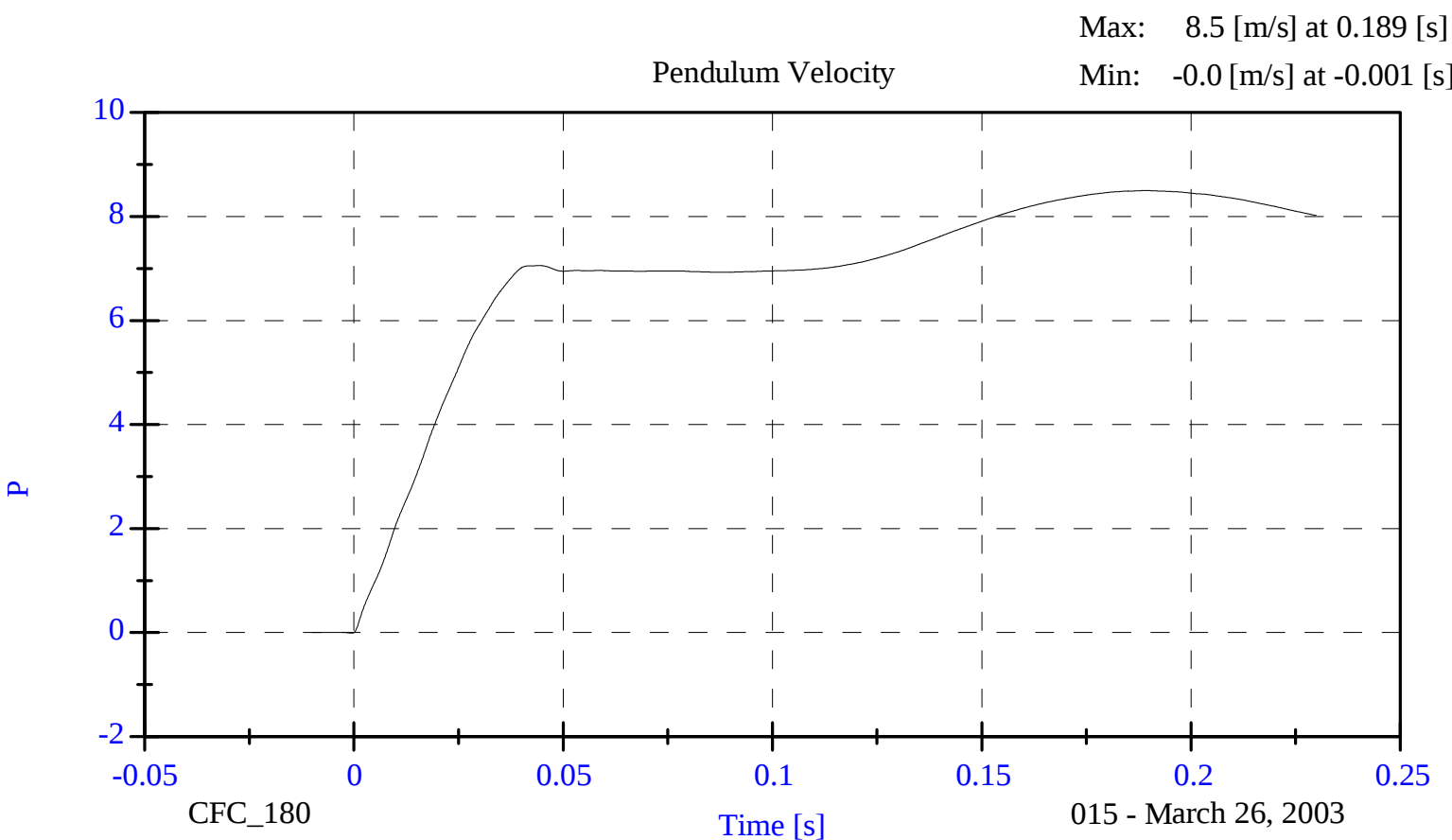
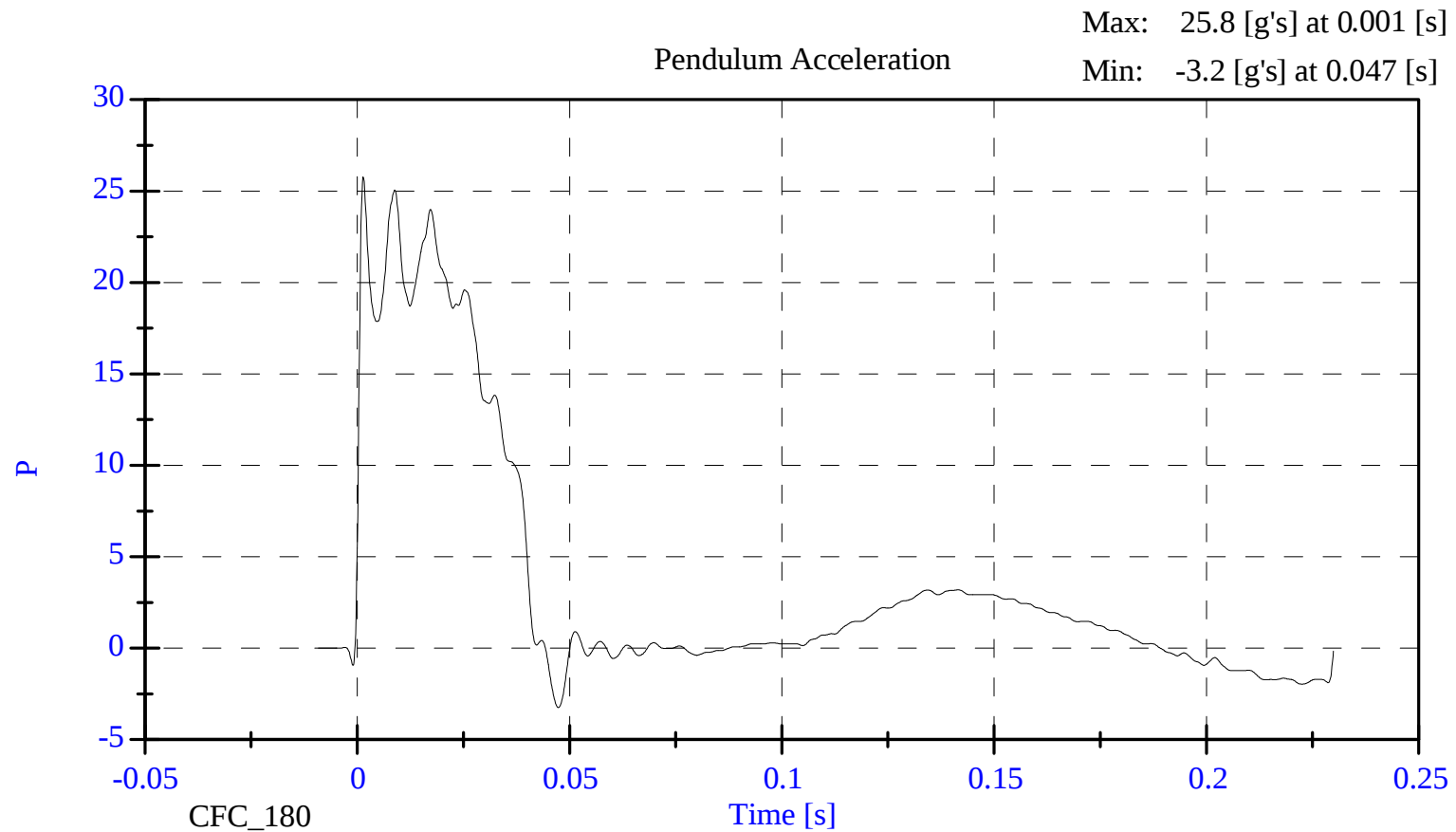
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

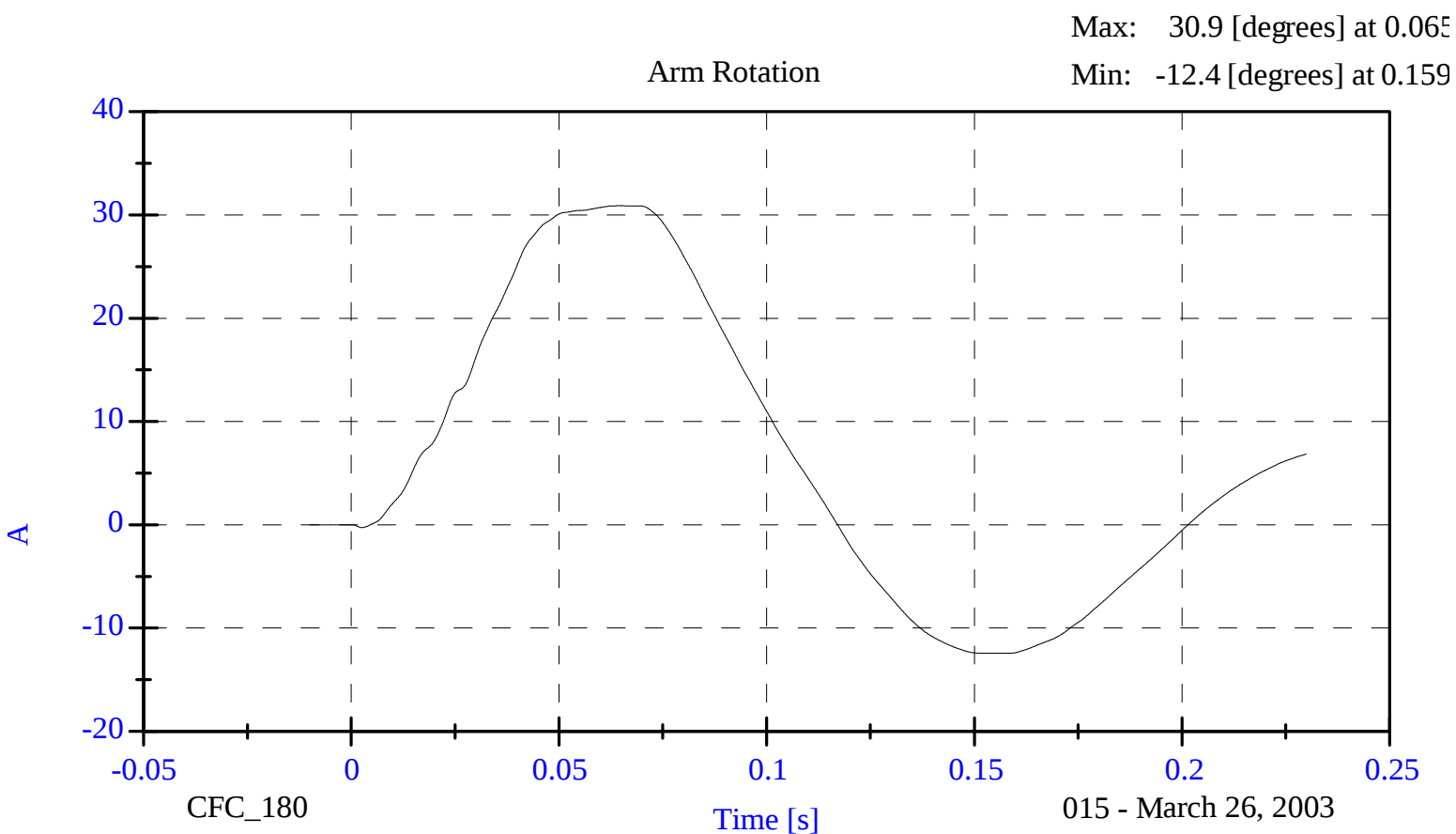
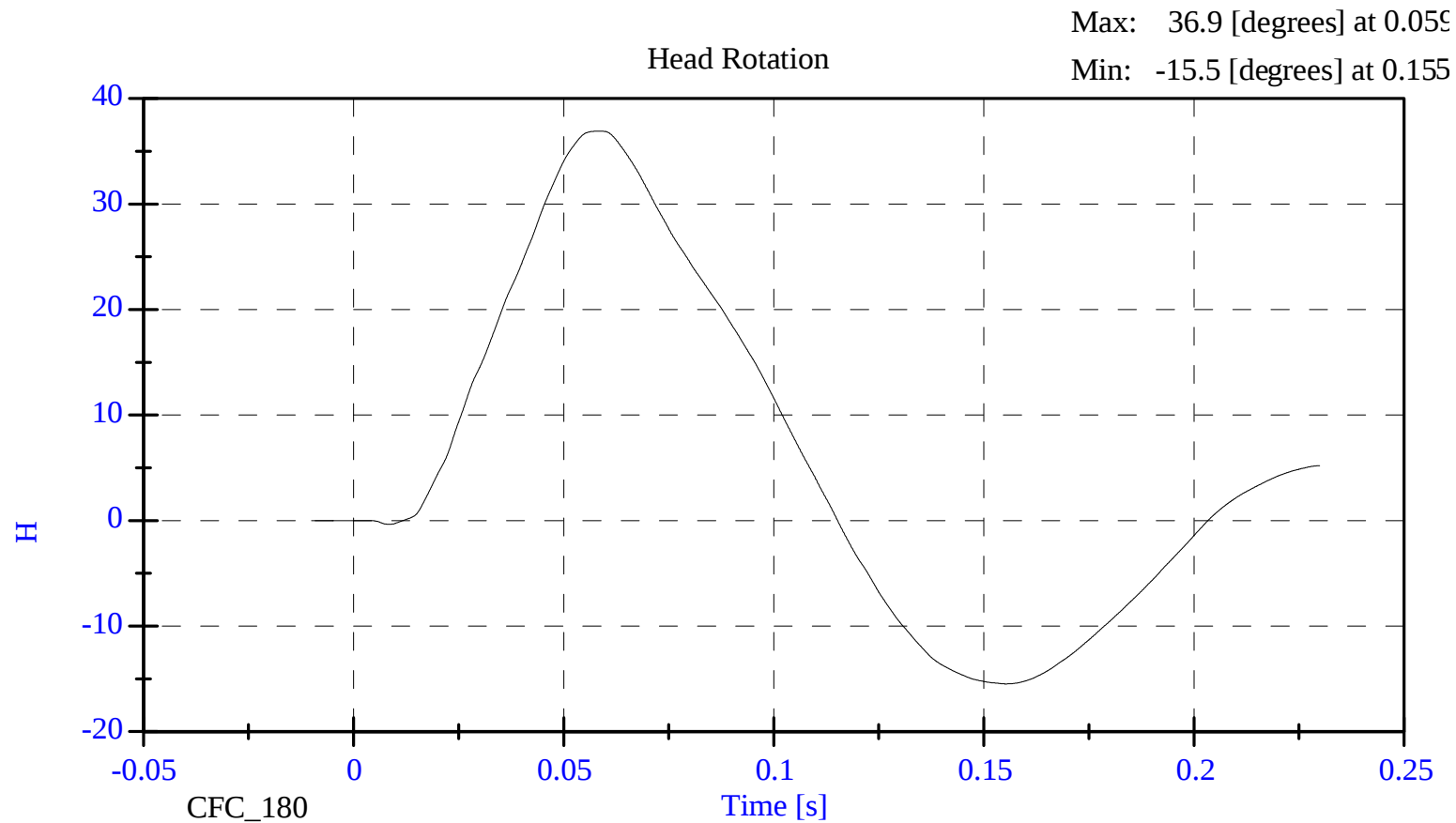
SID Serial No.: 015	Sequential Test Number: 3	
Date: March 26, 2003	Laboratory Technician: B. Swiecicki	

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	20.6 - 22.2	21.7
RELATIVE HUMIDITY (%)	10 - 70	30.00
IMPACT VELOCITY (m/s)	6.89 – 7.13	7.03
PENDULUM DELTA V		
DELTA V @ 10 ms (m/s)	1.96 – 2.55	2.06
DELTA V @ 20 ms (m/s)	4.12 – 5.10	4.15
DELTA V @ 30 ms (m/s)	5.73 – 7.01	5.93
DELTA V @ 40-70 ms (m/s)	6.27 – 7.64	7.10
D PLANE ROTATION		
MAXIMUM ROTATION (deg)	64 – 78	67.59
ROT. ANGLE TIME to ZERO (ms)	50 – 70	56.20
MOMENT ABOUT THE OCCIPITAL CONDYLE		
MAX OCCIPITAL MOMENT (Nm)	88 – 108	88.20
OCCIPITAL MOMENT DECAY (ms)	40.0 – 60.0	46.80
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT		
ROTATION wrt MOMENT (ms)	0 – 20	7.10

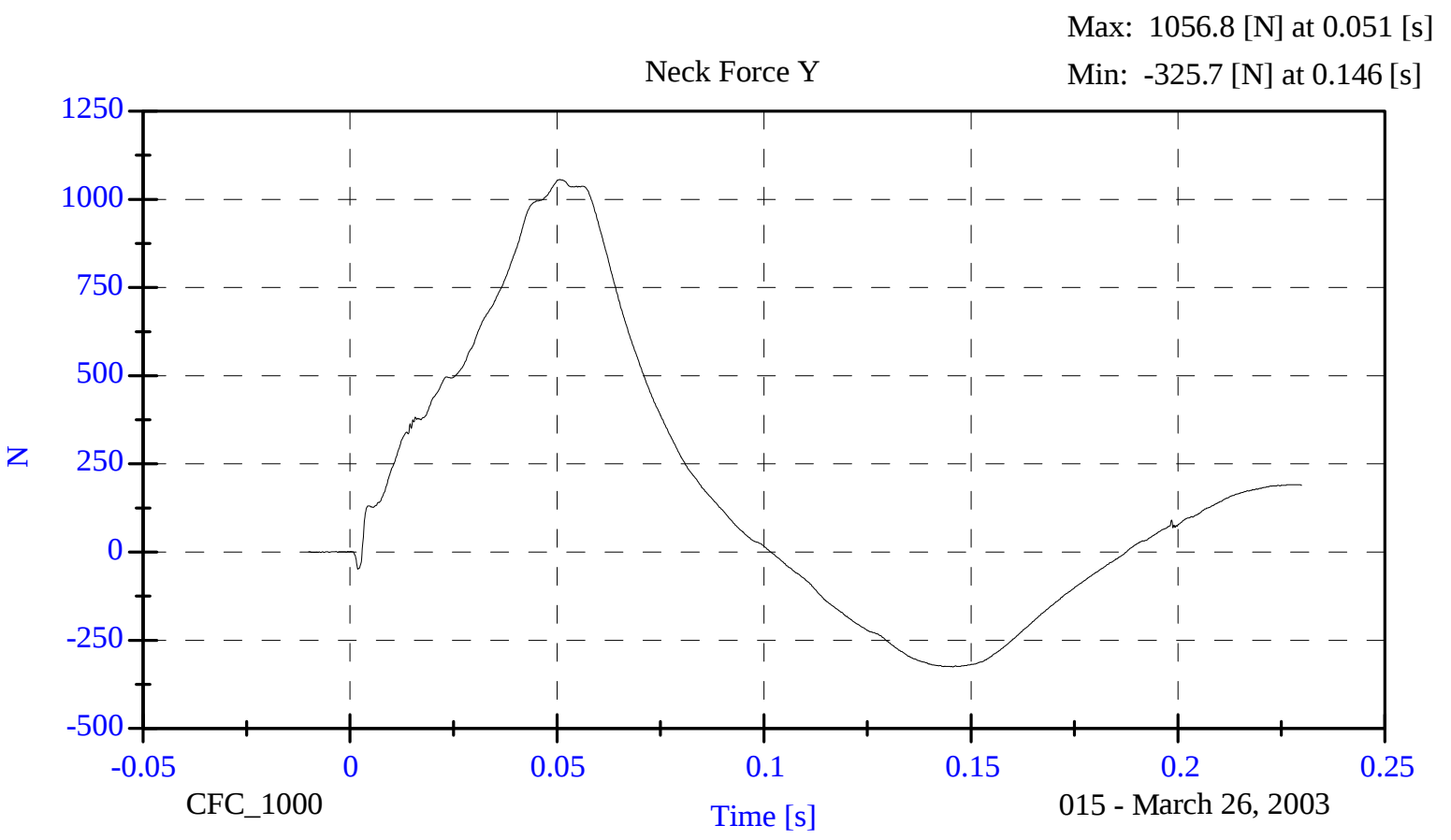
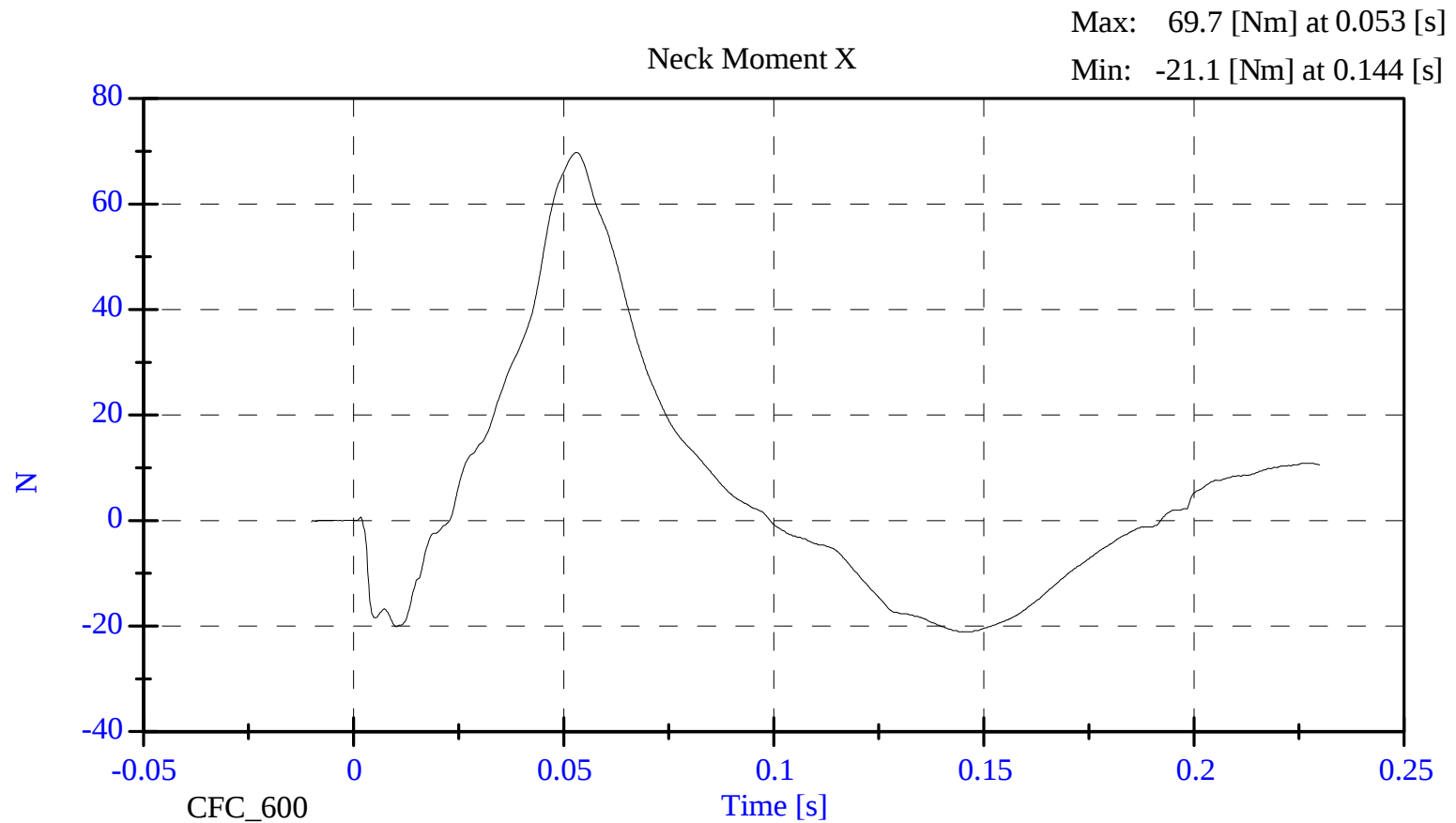
REMARKS: None

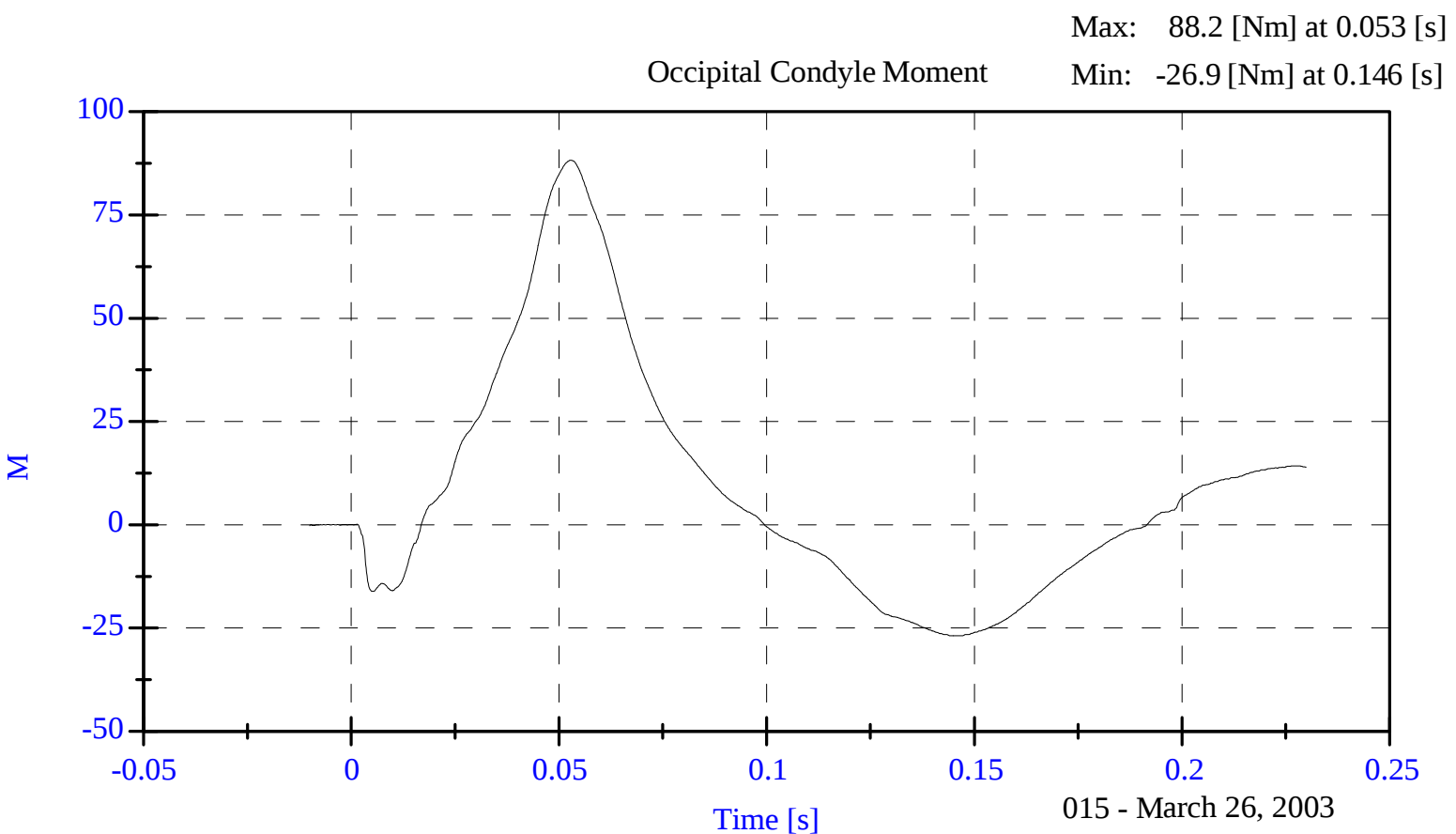
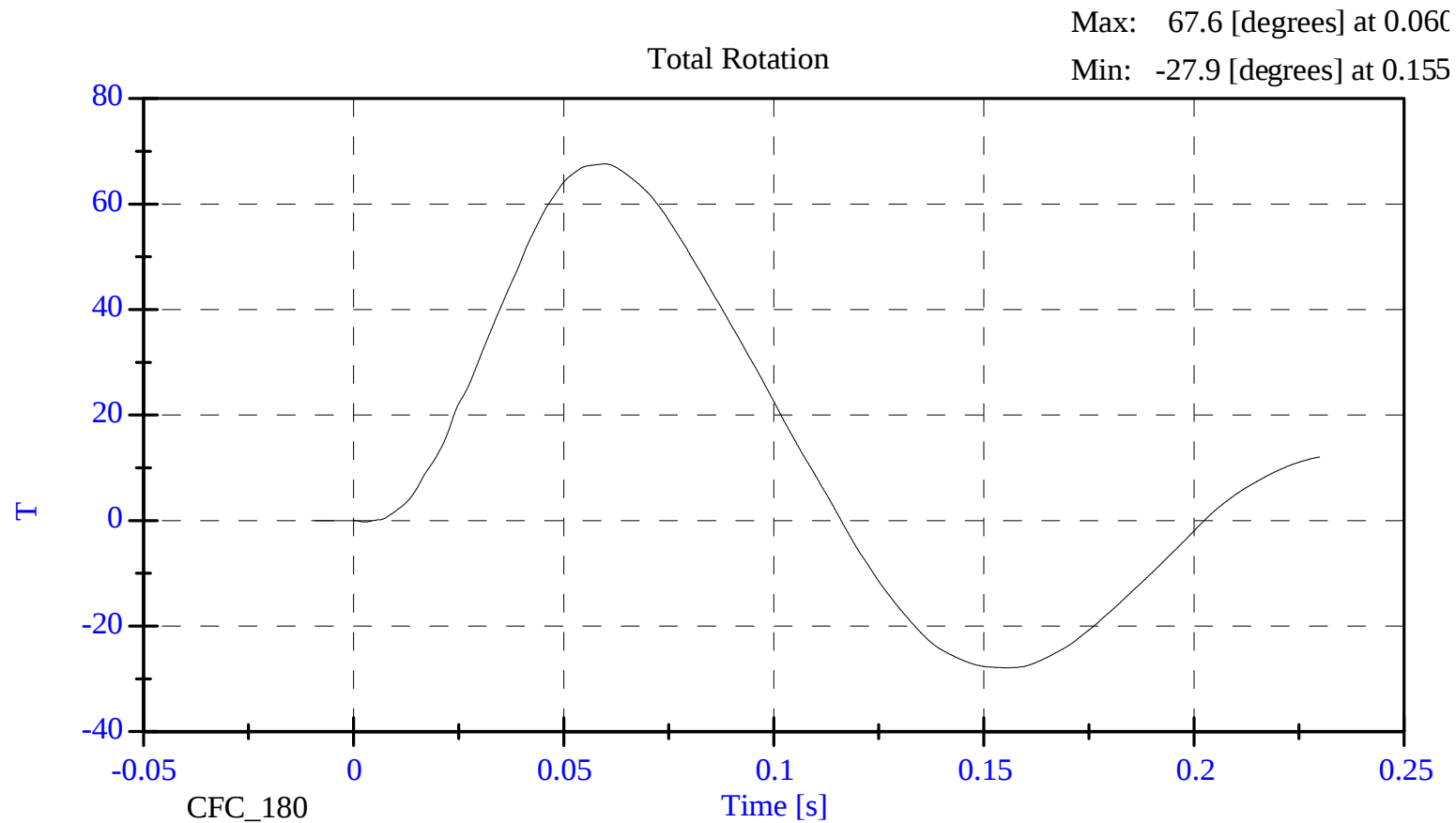


015 - March 26, 2003



Neck Test





**ABDOMINAL COMPRESSION TEST
PRE-TEST**

(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.00
FORCE @ 13 mm (N)	104 - 162	115.65
FORCE @ 19 mm (N)	163 - 221	175.70
FORCE @ 25 mm (N)	222 - 280	253.10
FORCE @ 33 mm (N)	325 - 391	364.75

REMARKS: None

Dummy S/N 015

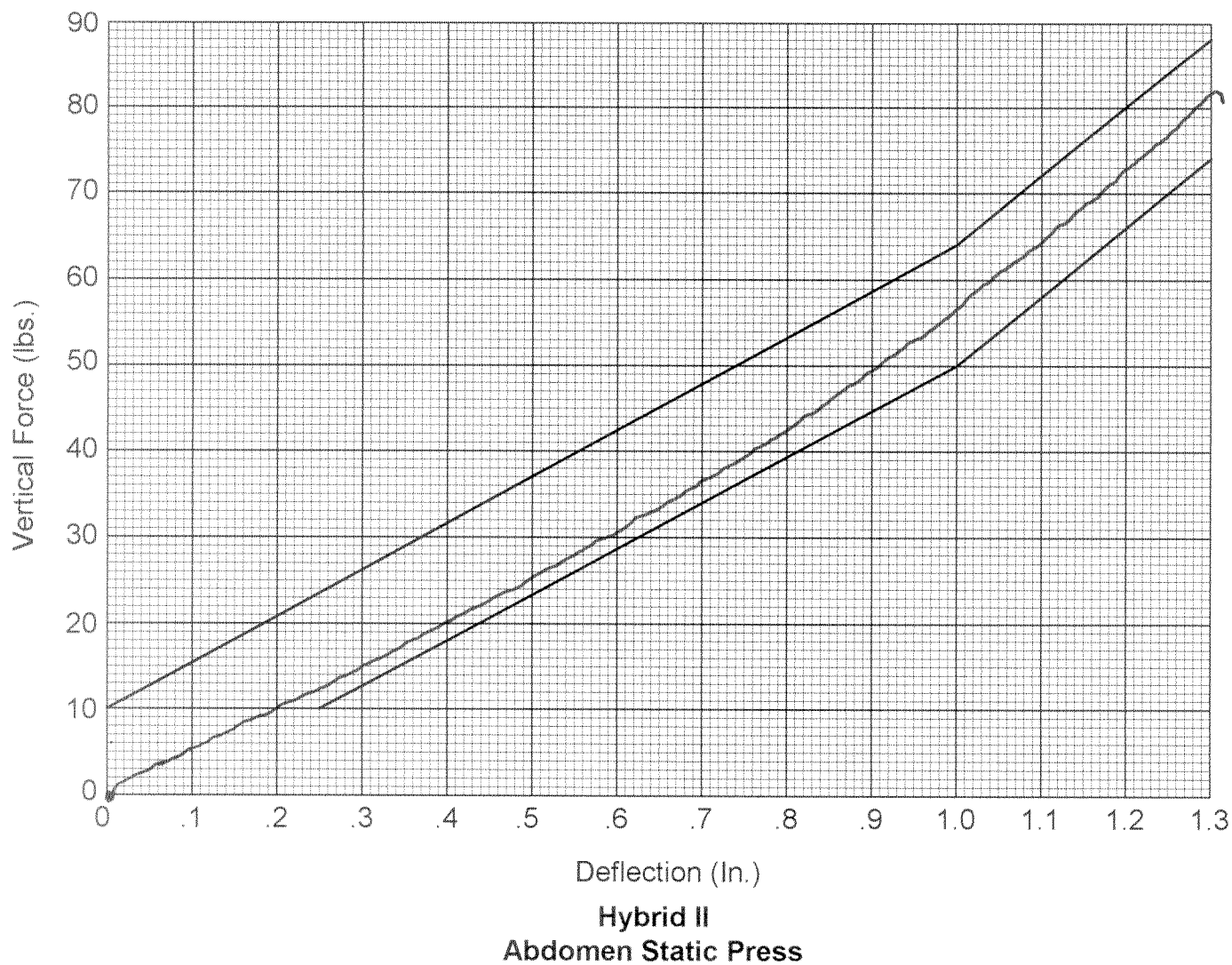
W/A _____

Date 03-27-03

Performed By [Signature]

Temp. 70°

Humidity 35%



LUMBAR FLEXION TEST
PRE-TEST
(Test not required for SID certification)

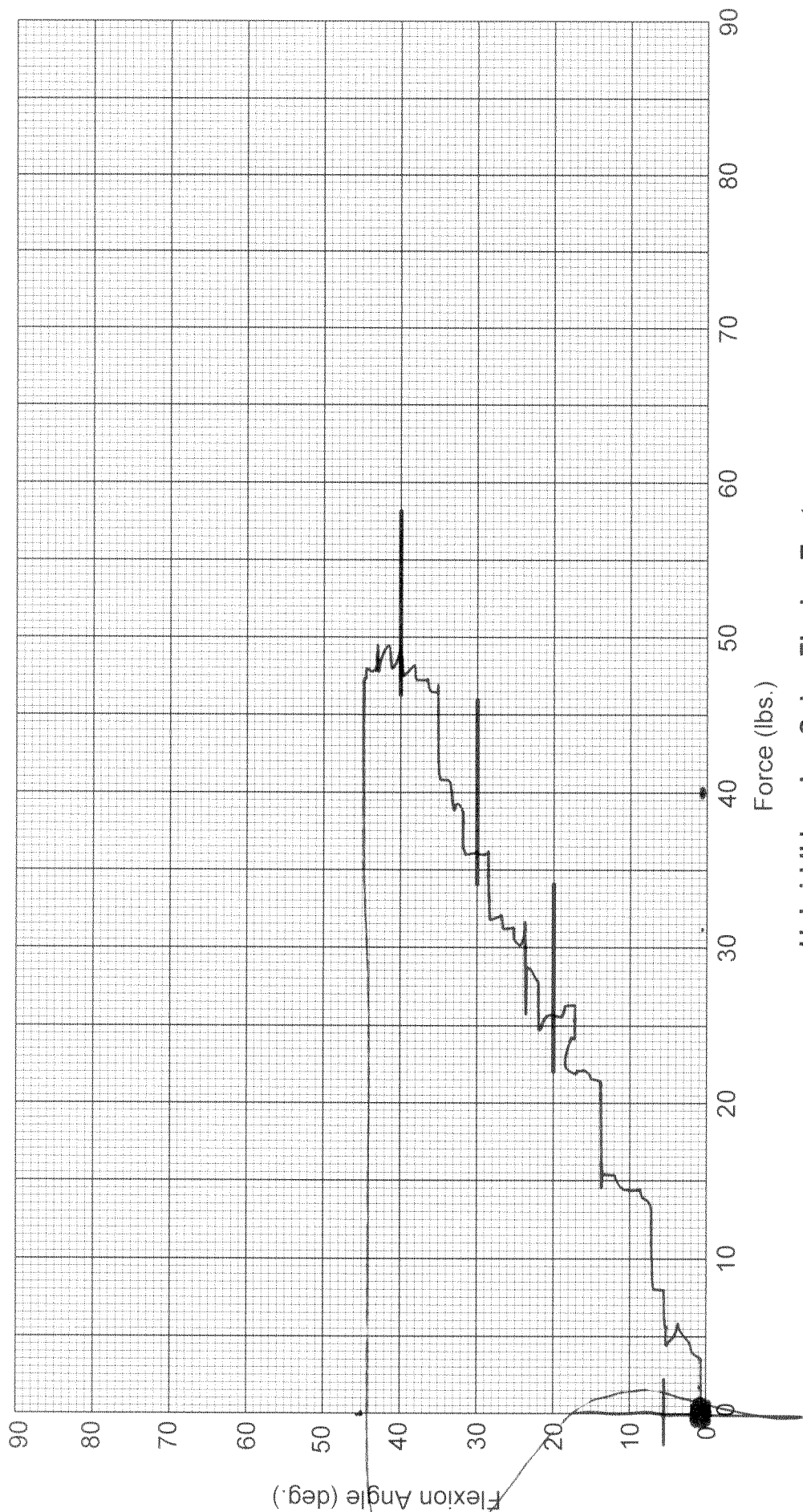
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	38.00
FORCE @ 0° (N)	0 - 26.7	0.0
FORCE @ 20° (N)	97.8 - 151.2	113.4
FORCE @ 30° (N)	151.2 - 204.6	157.9
FORCE @ 40° (N)	204.6 - 258	213.5
RETURN ANGLE	12° max.	5.8

REMARKS: None

Dummy S/N 015
W/A _____
Date 03-28-03
Performed By [Signature]
Temp. 70°
Humidity 38%



Hybrid II Lumbar Spine Flexion Test

PRE-TEST DUMMY INSPECTION LIST

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015	Sequential Test Number: 3	
Date: March 27, 2003	Laboratory Technician: B. Swiecicki	

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 016

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
THORACIC SHOCK ABSORBER TEST	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	236
KH- Knee Pivot from Back Line (mm)	511 - 526	521
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	368

REMARKS: None

**THORACIC SHOCK ABSORBER TESTS
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 3
Date: February 3, 2003 Laboratory Technician: B. Swiecicki

DAMPER IDENTIFICATION: _____

TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)		18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)		10 - 70	29
VELOCITY 3.05 m/s	FORCE (N)	836 - 1125	951.92
	DISPLACEMENT (mm)	30 - 35	34.41
VELOCITY 4.27 m/s	FORCE (N)	1730 - 2099	1877.47
	DISPLACEMENT (mm)	32 - 37	36.94
VELOCITY 6.10 m/s	FORCE (N)	3741 - 4448	4426.58
	DISPLACEMENT (mm)	33 - 40	39.14

DAMPER SETTING: 5

REMARKS: None

016 Shock Low at 3.05 m/s

Low Part 572F Shock Absorber Impact

Calibration Date:

02-03-03

Serial No:

016

Work File:

016SL 2-03-03

-----TEST RESULTS-----

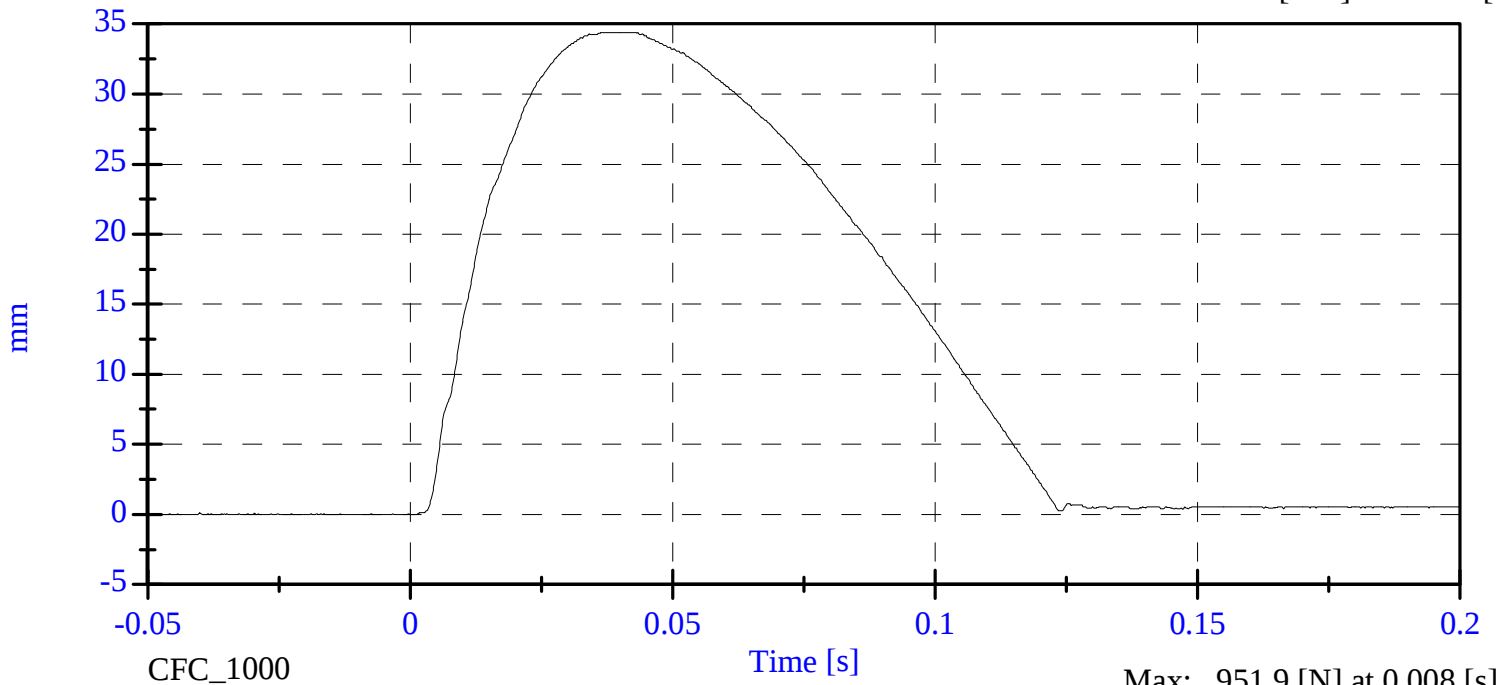
TEST CONDITION	PARAMETERS	RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Displacement:	30.00-35.00 mm	34.41 mm	Passed
Maximum Force:	836.00-1125.00 N	951.92 N	Passed

016 Shock Low

Displacement vs. Time

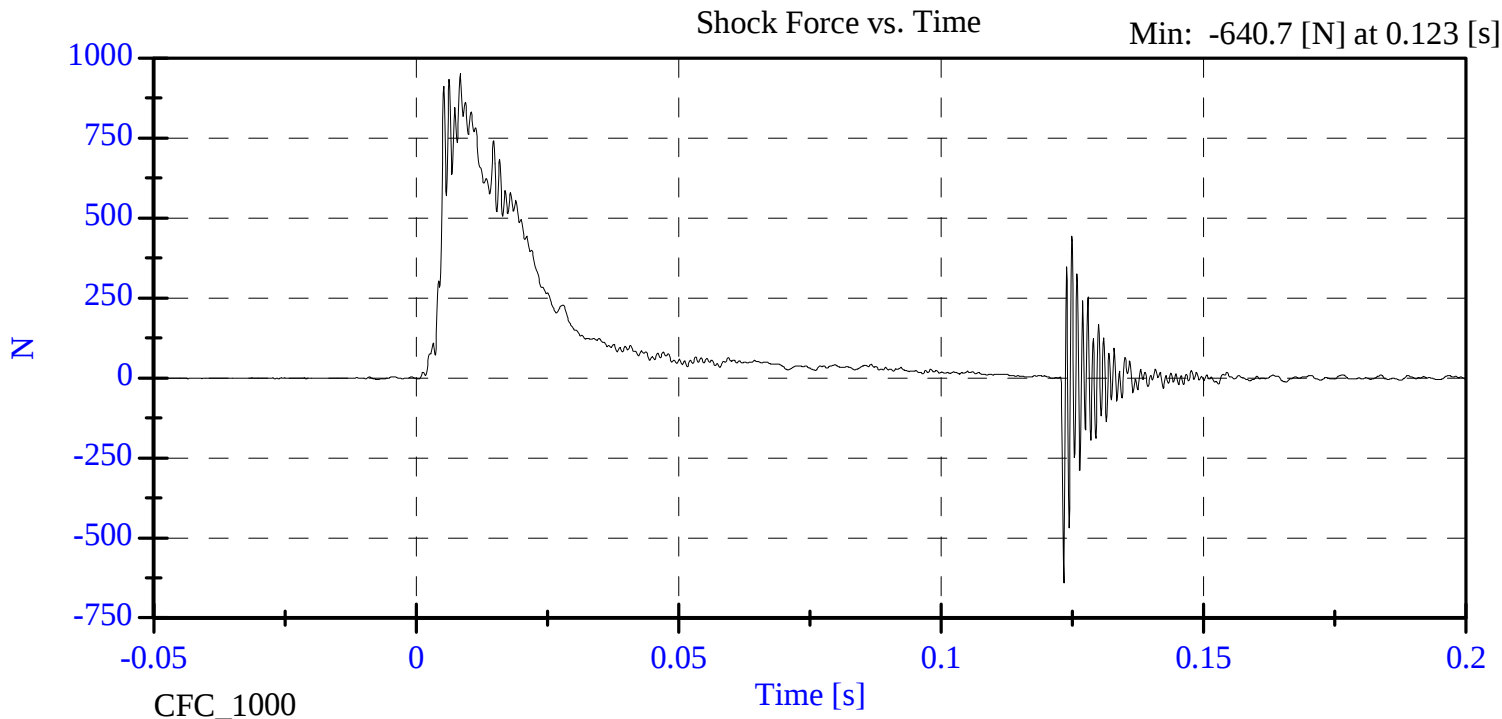
Max: 34.4 [mm] at 0.037 [s]

Min: -0.0 [mm] at -0.029 [s]



Max: 951.9 [N] at 0.008 [s]

Min: -640.7 [N] at 0.123 [s]



016 Shock Medium at 4.27 m/s

Medium Part 572F Shock Absorber Impact

Calibration Date:

02-03-03

Serial No:

016

Work File:

016SM 2-03-03

-----TEST RESULTS-----

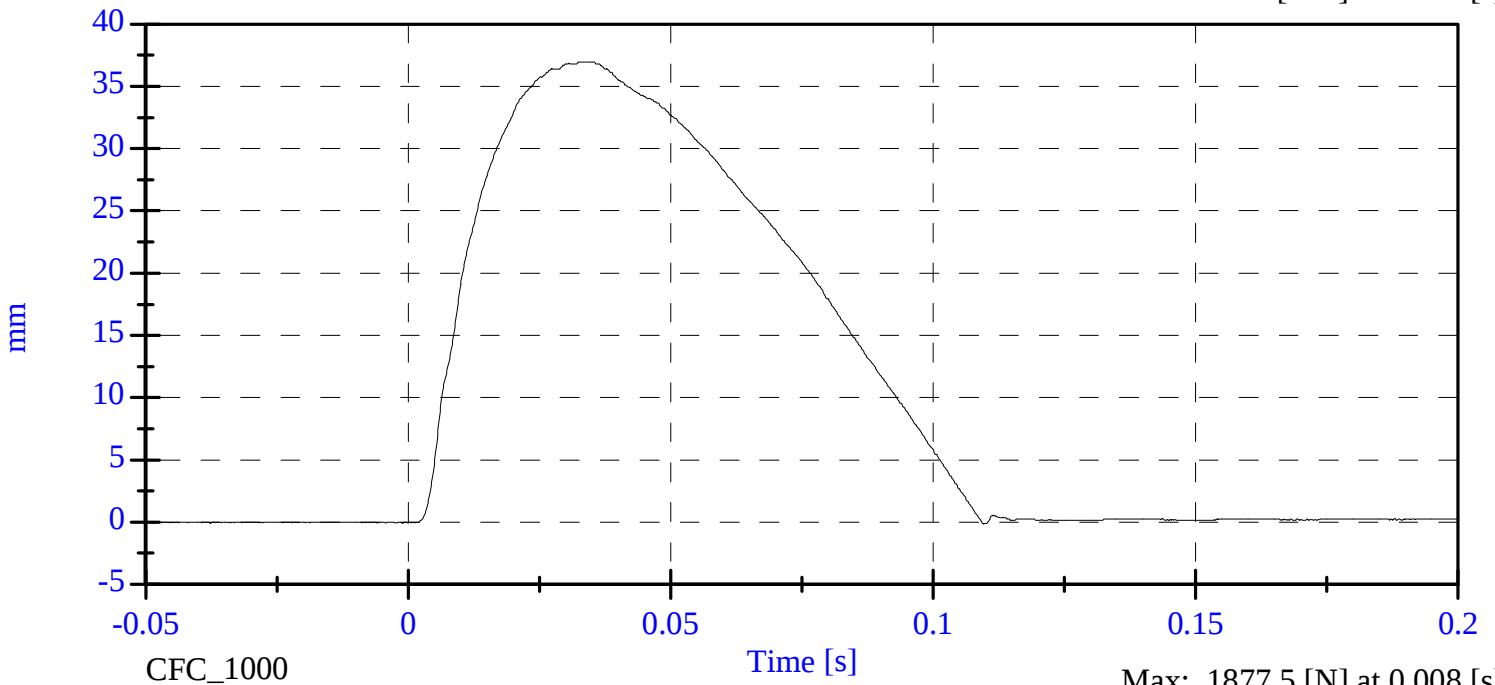
TEST CONDITION	PARAMETERS	RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Displacement:	32.00-37.00 mm	36.94 mm	Passed
Maximum Force:	1730.00-2099.00 N	1877.47 N	Passed

016 Shock Medium

Displacement vs. Time

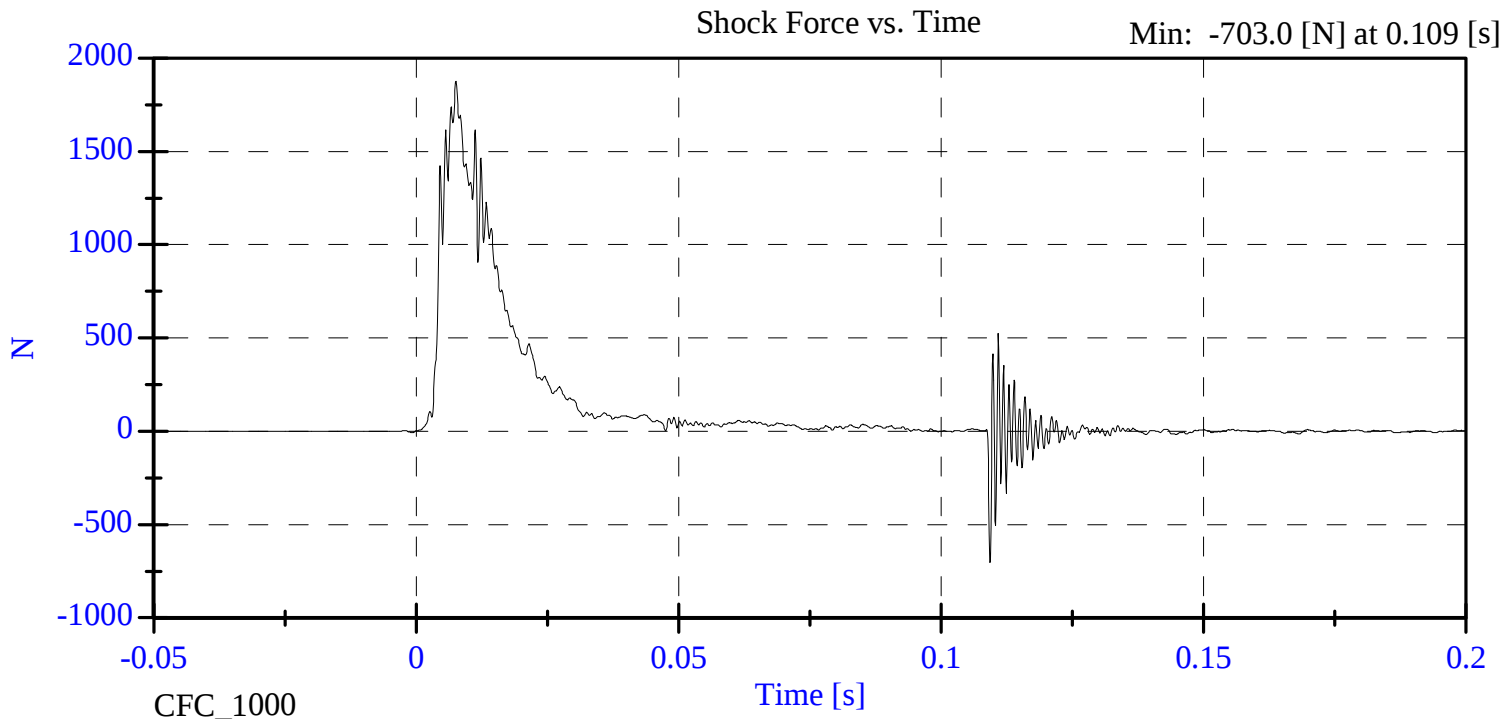
Max: 36.9 [mm] at 0.033 [s]

Min: -0.1 [mm] at 0.110 [s]



Max: 1877.5 [N] at 0.008 [s]

Min: -703.0 [N] at 0.109 [s]



016 Shock High at 6.10 m/s

High Part 572F Shock Absorber Impact

Calibration Date:

02-03-03

Serial No:

016

Work File:

016SH 2-03-03

-----TEST RESULTS-----

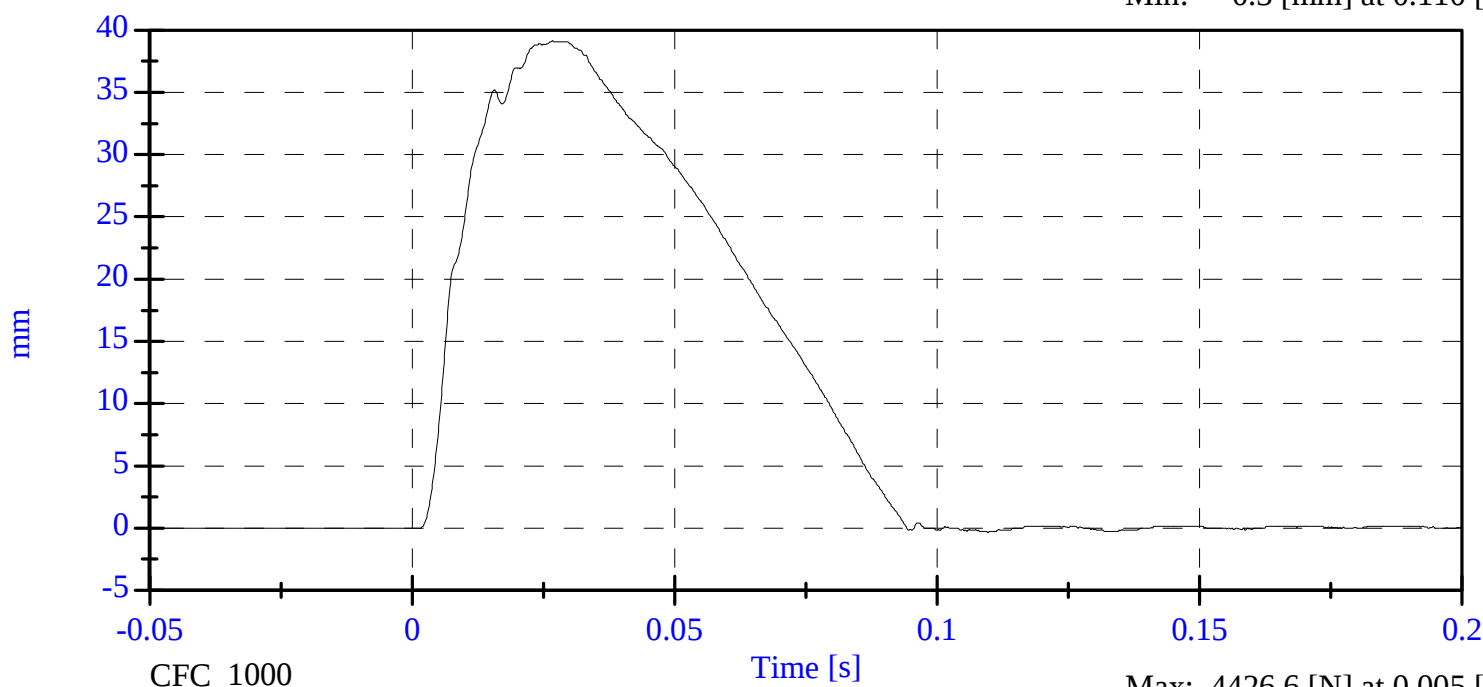
TEST CONDITION	PARAMETERS	RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Displacement:	33.00-40.00 mm	39.14 mm	Passed
Maximum Force:	3741.00-4448.00 N	4426.58 N	Passed

016 Shock High

Displacement vs. Time

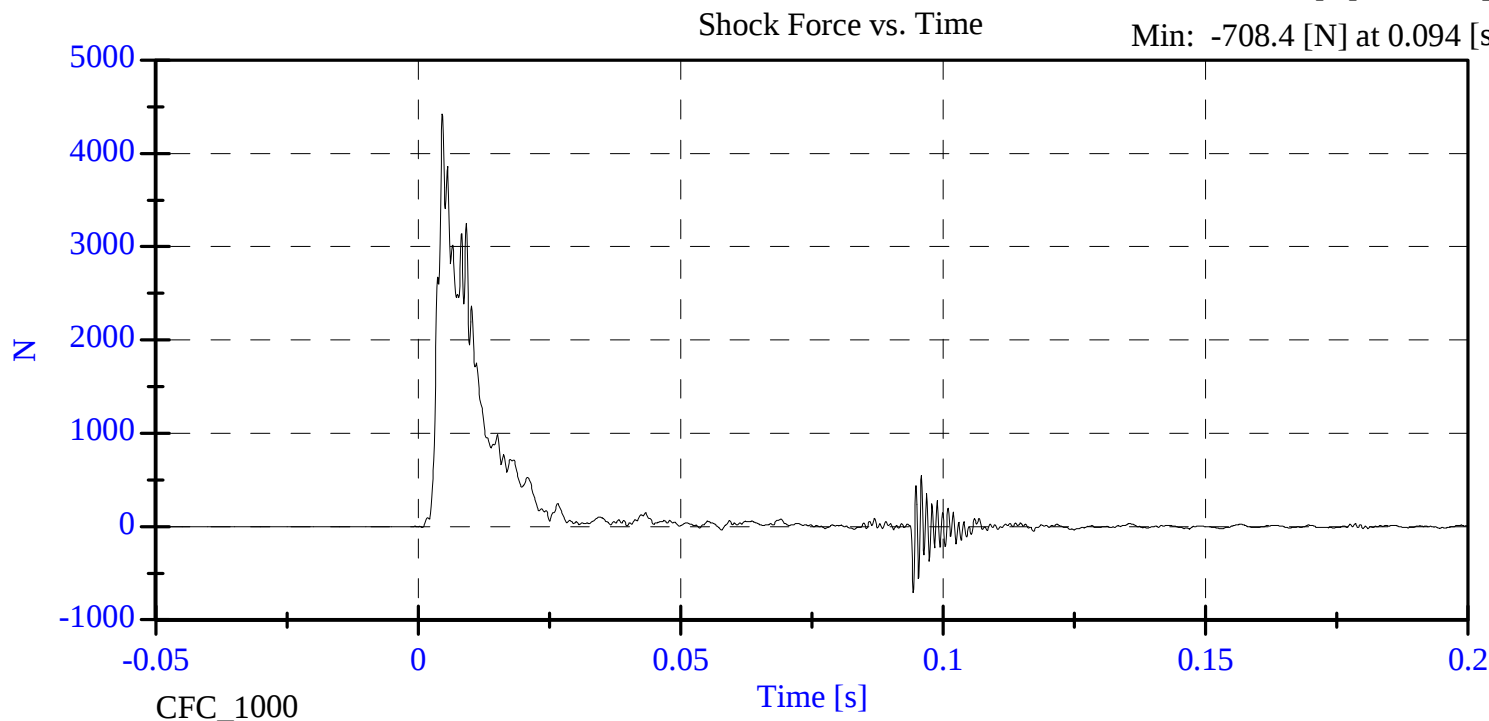
Max: 39.1 [mm] at 0.027 [s]

Min: -0.3 [mm] at 0.110 [s]



Max: 4426.6 [N] at 0.005 [s]

Min: -708.4 [N] at 0.094 [s]



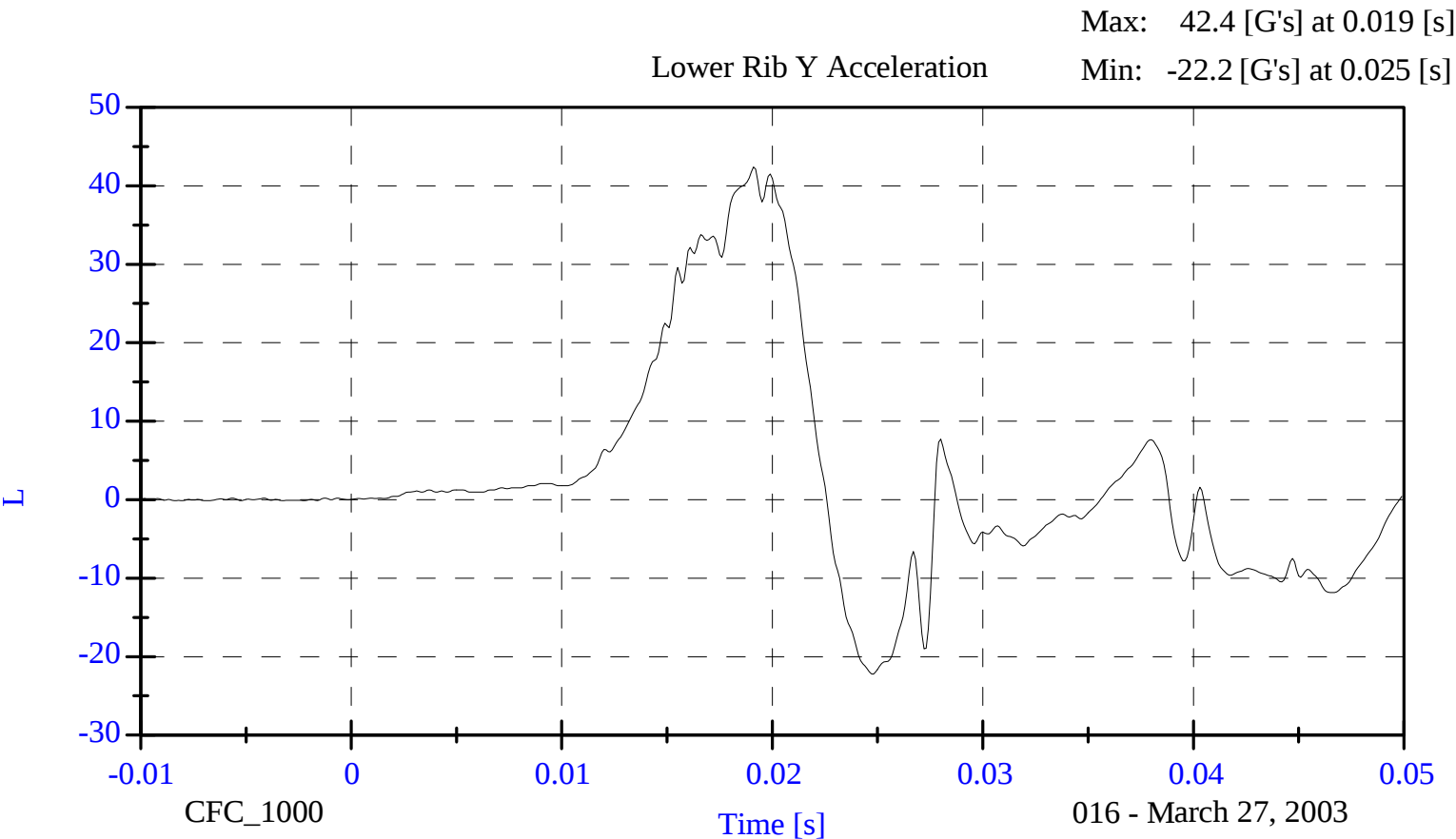
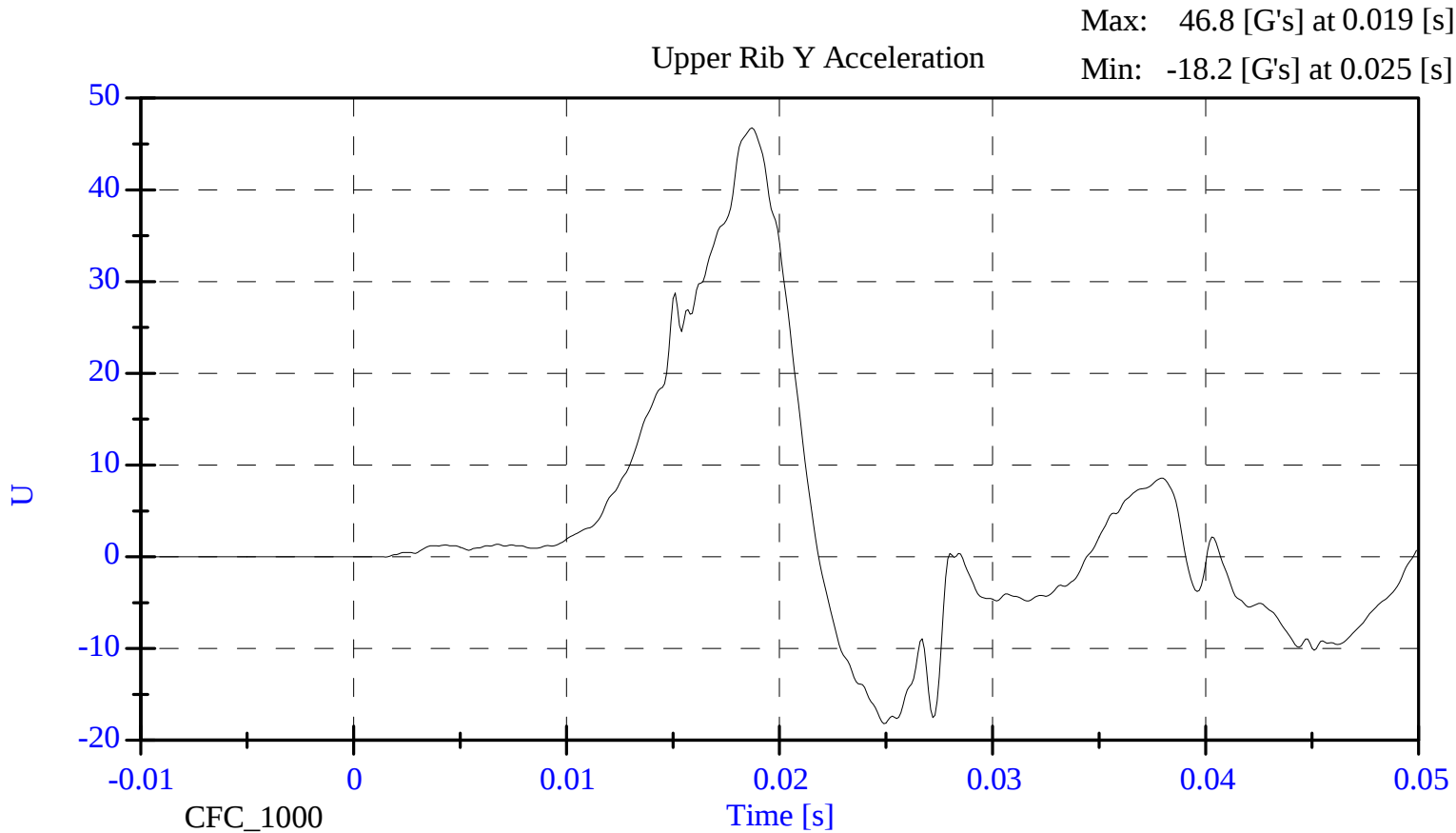
**LATERAL THORAX IMPACT TEST
PRE-TEST**

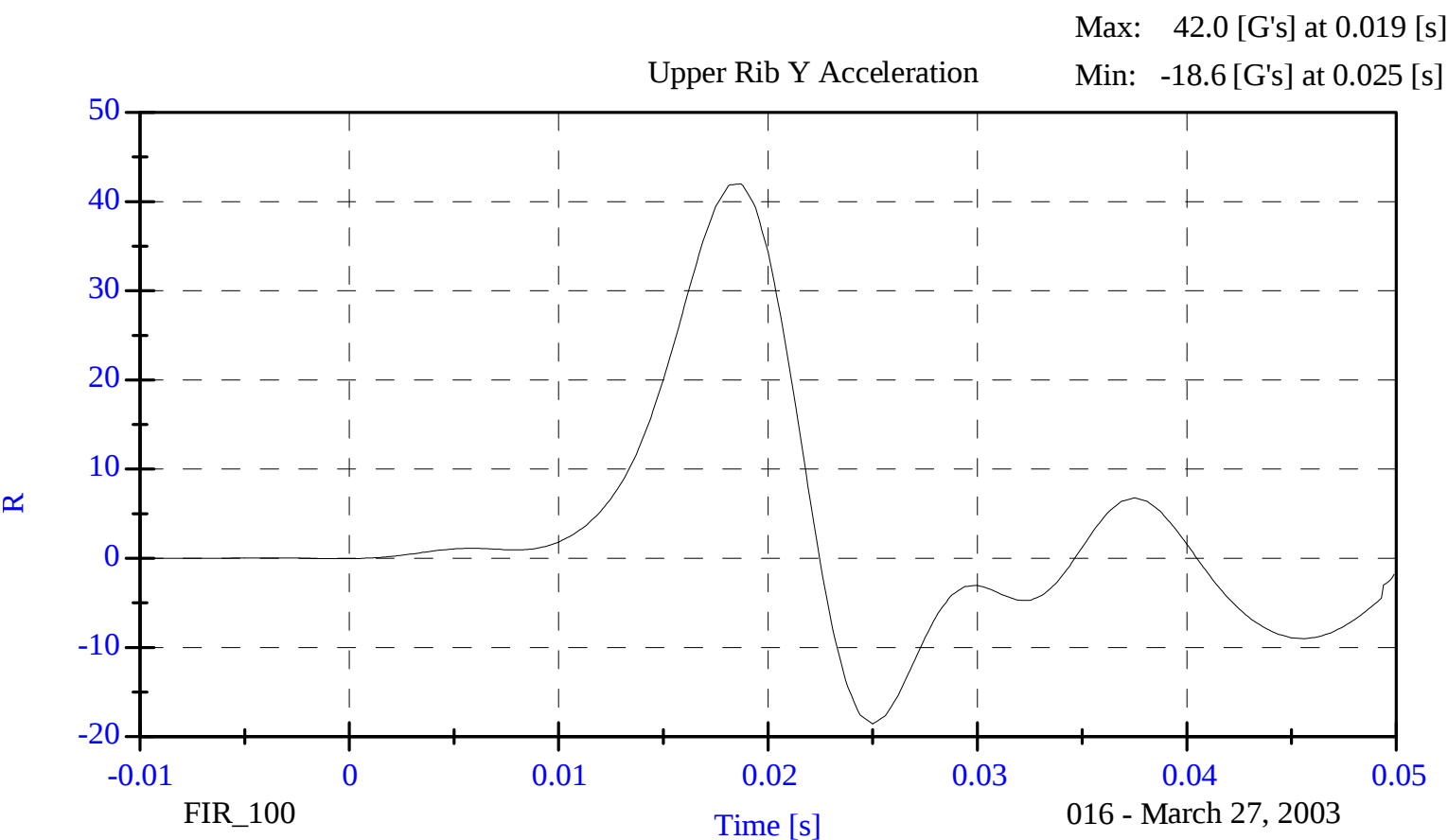
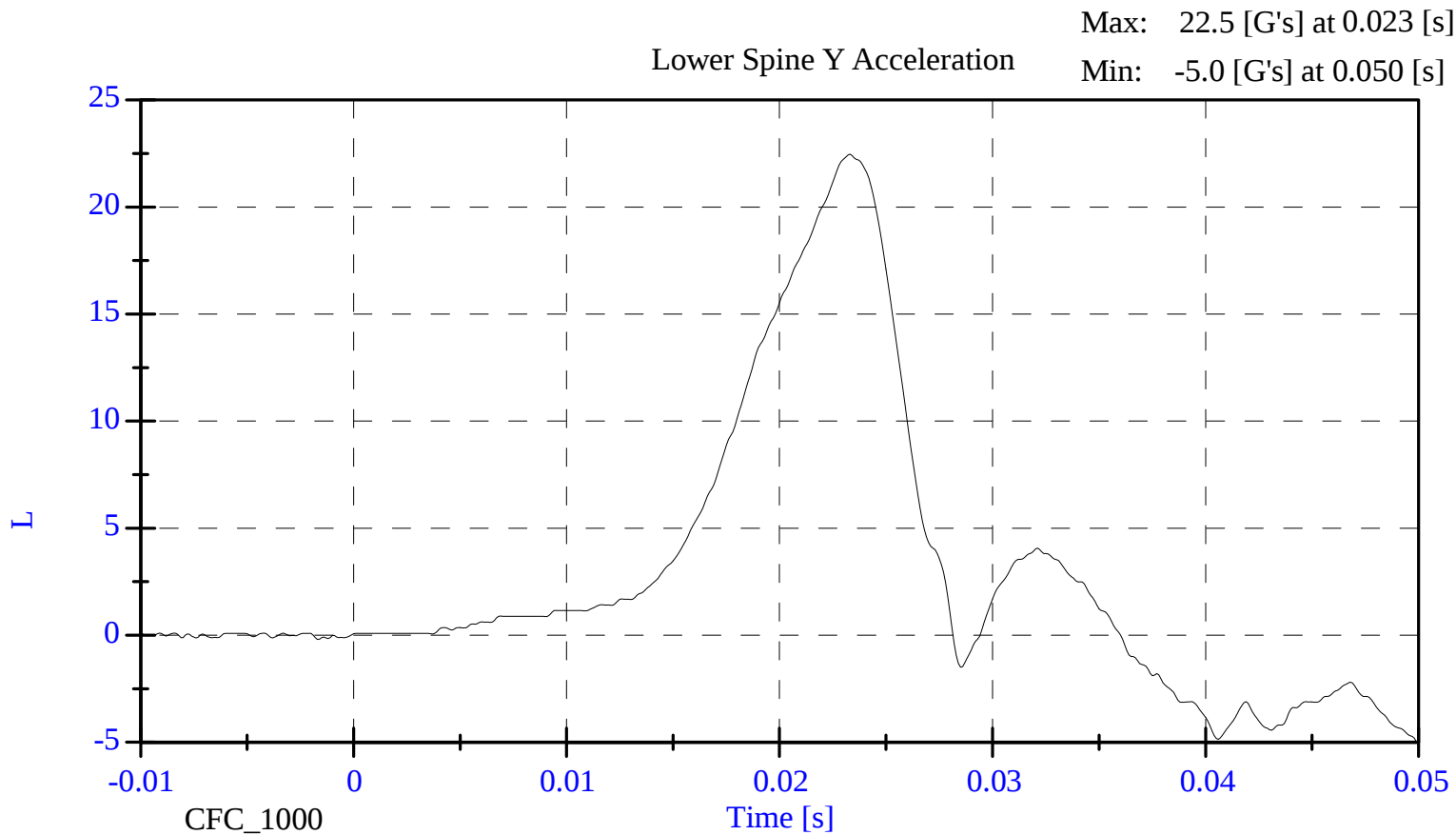
CONFIGURED FOR LEFT SIDE IMPACT

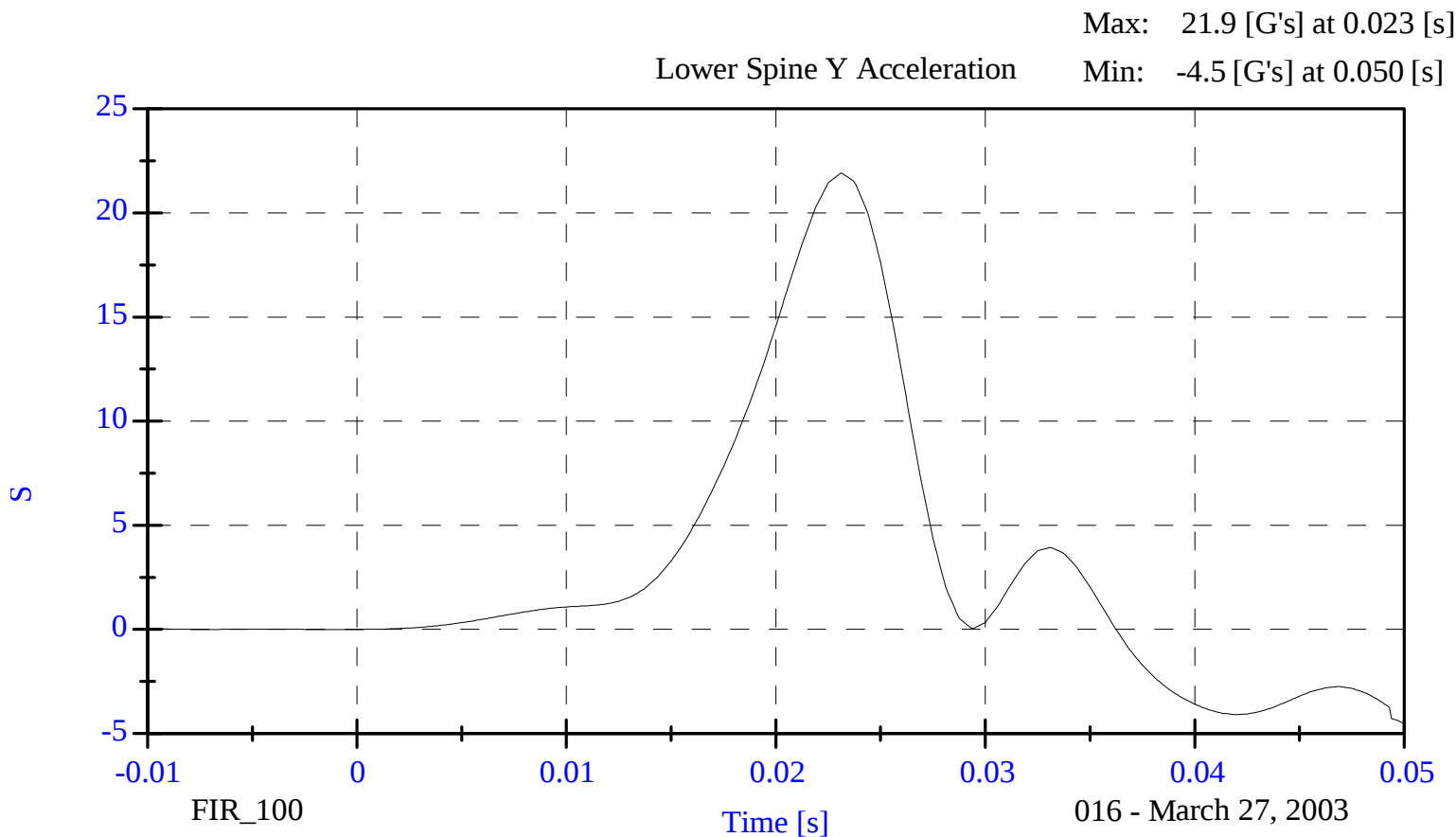
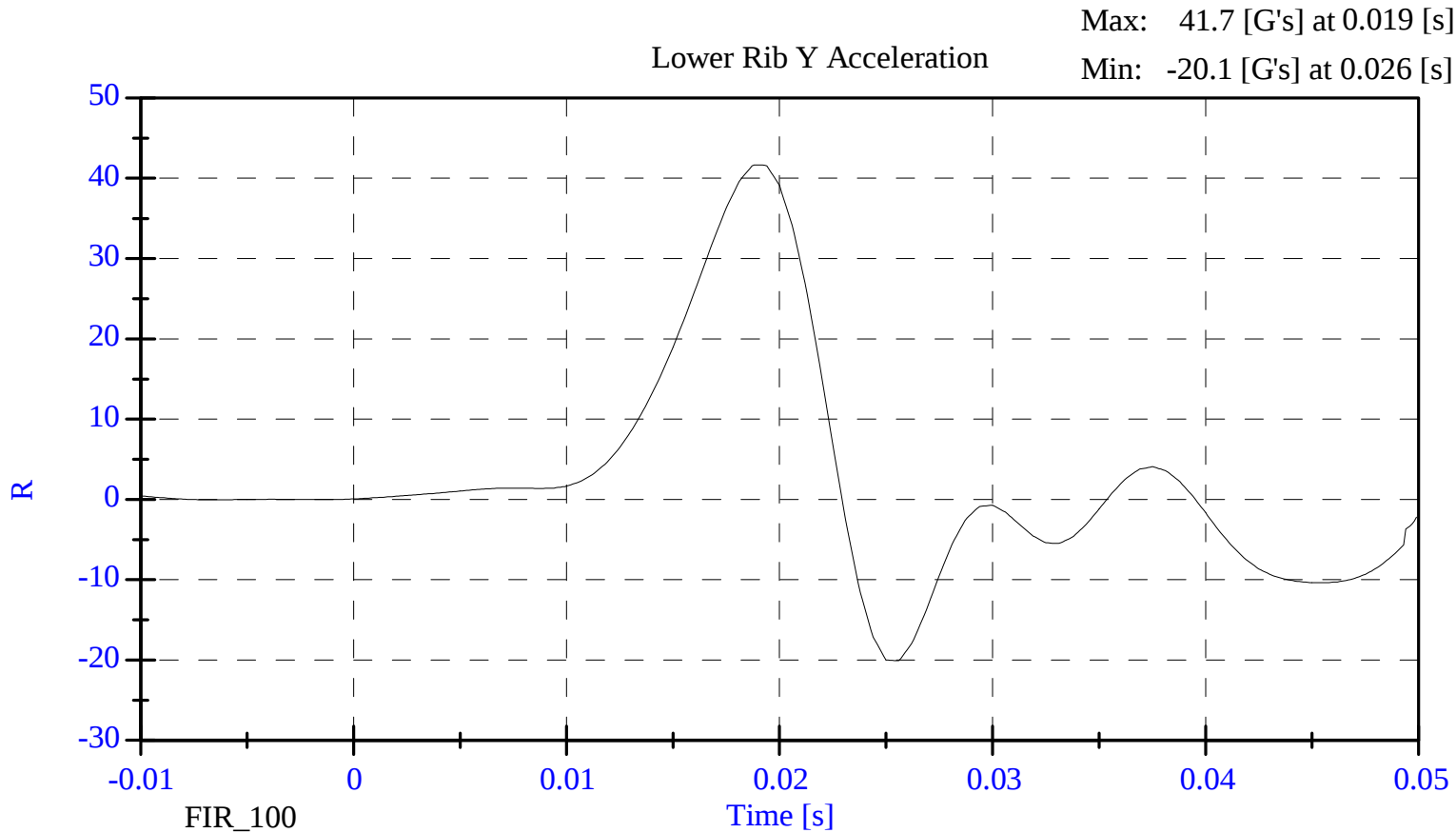
SID H3 Serial No.:	<u>016</u>	Sequential Test Number:	<u>3</u>
Date:	<u>March 27, 2003</u>	Laboratory Technician:	<u>B. Swiecicki</u>

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.7
RELATIVE HUMIDITY (%)	10 - 70	36.00
PROBE SPEED (m/s)	4.27 - 4.33	4.29
UPPER RIB (g's)	37 - 46	41.98
LOWER RIB (g's)	37 - 46	41.69
LOWER SPINE (g's)	15 - 22	21.92

REMARKS: None







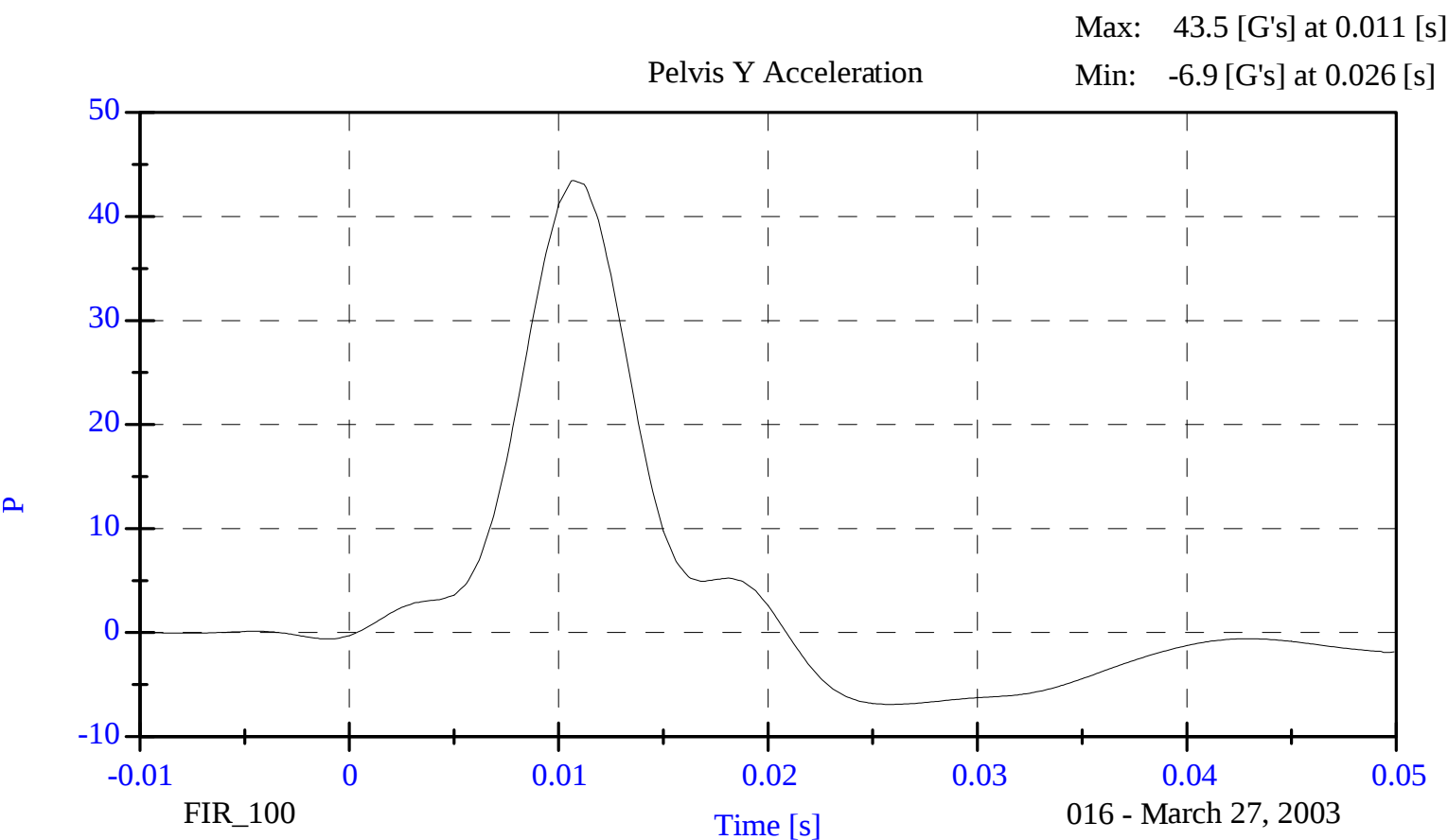
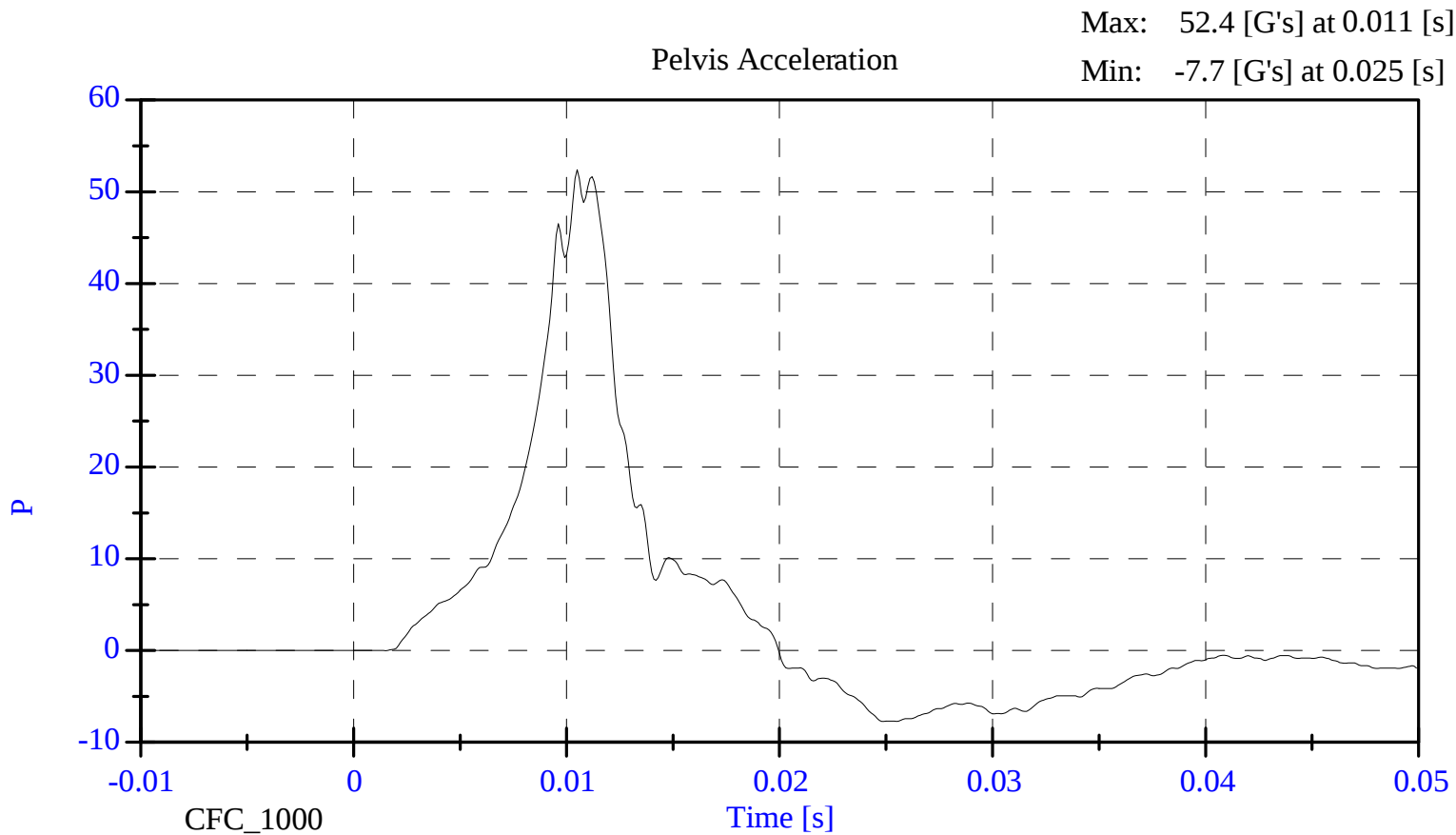
**LATERAL PELVIS IMPACT TEST
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.7
RELATIVE HUMIDITY (%)	10 - 70	36.00
PROBE SPEED (m/s)	4.27 - 4.33	4.32
PELVIS ACCELERATION (g's)	40 - 60	43.48

REMARKS: None



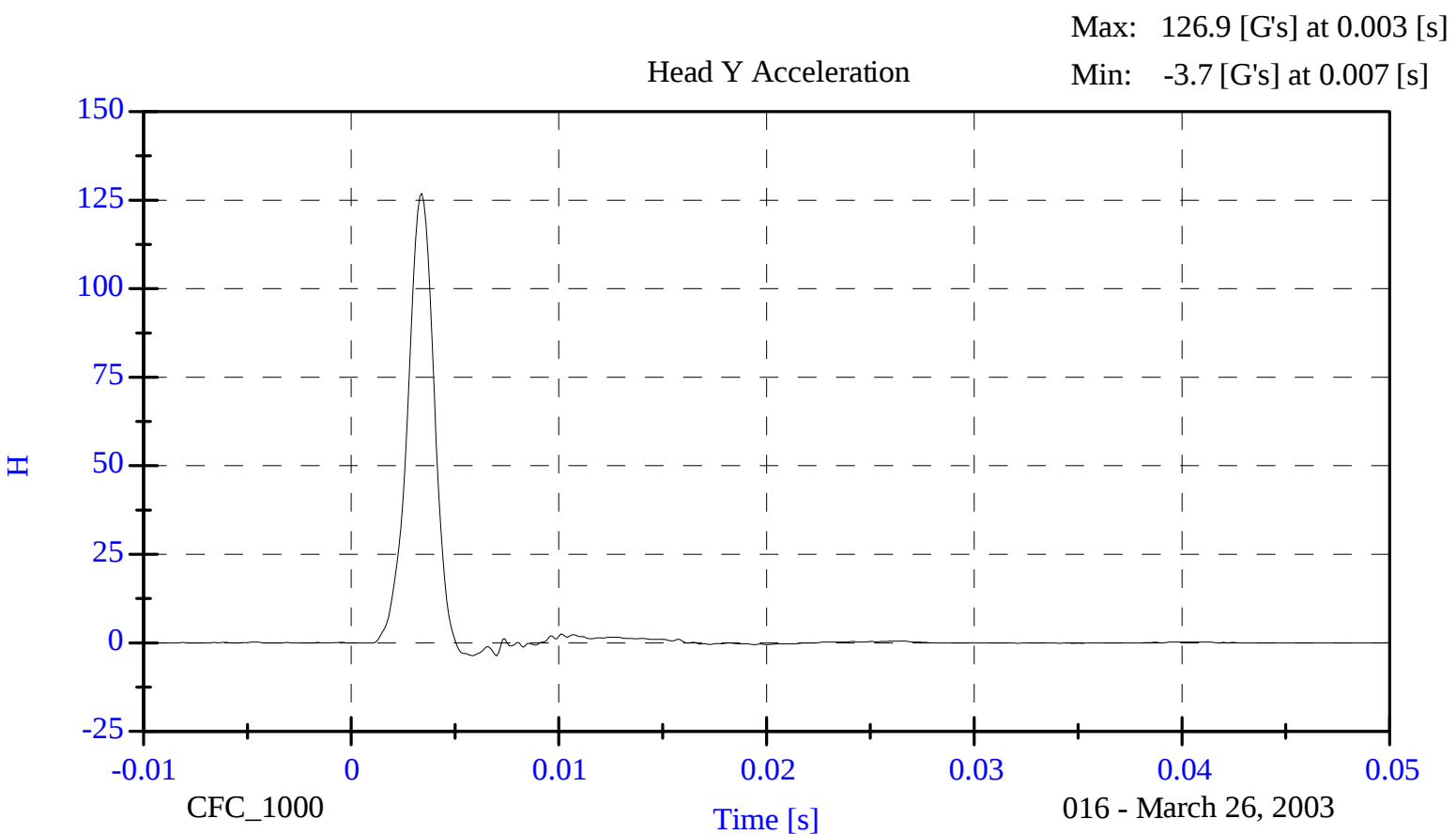
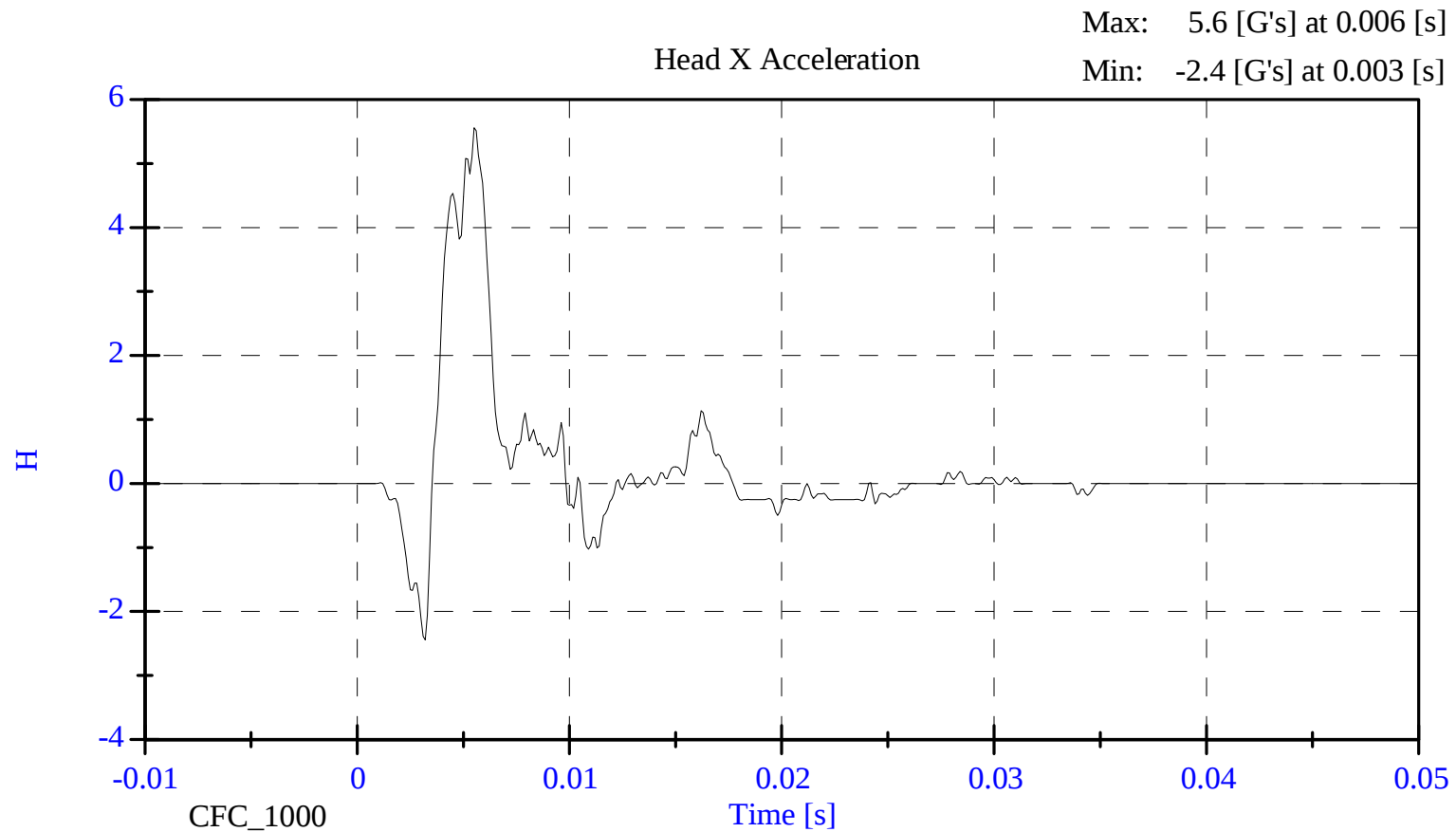
HEAD DROP TEST
PRE-TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

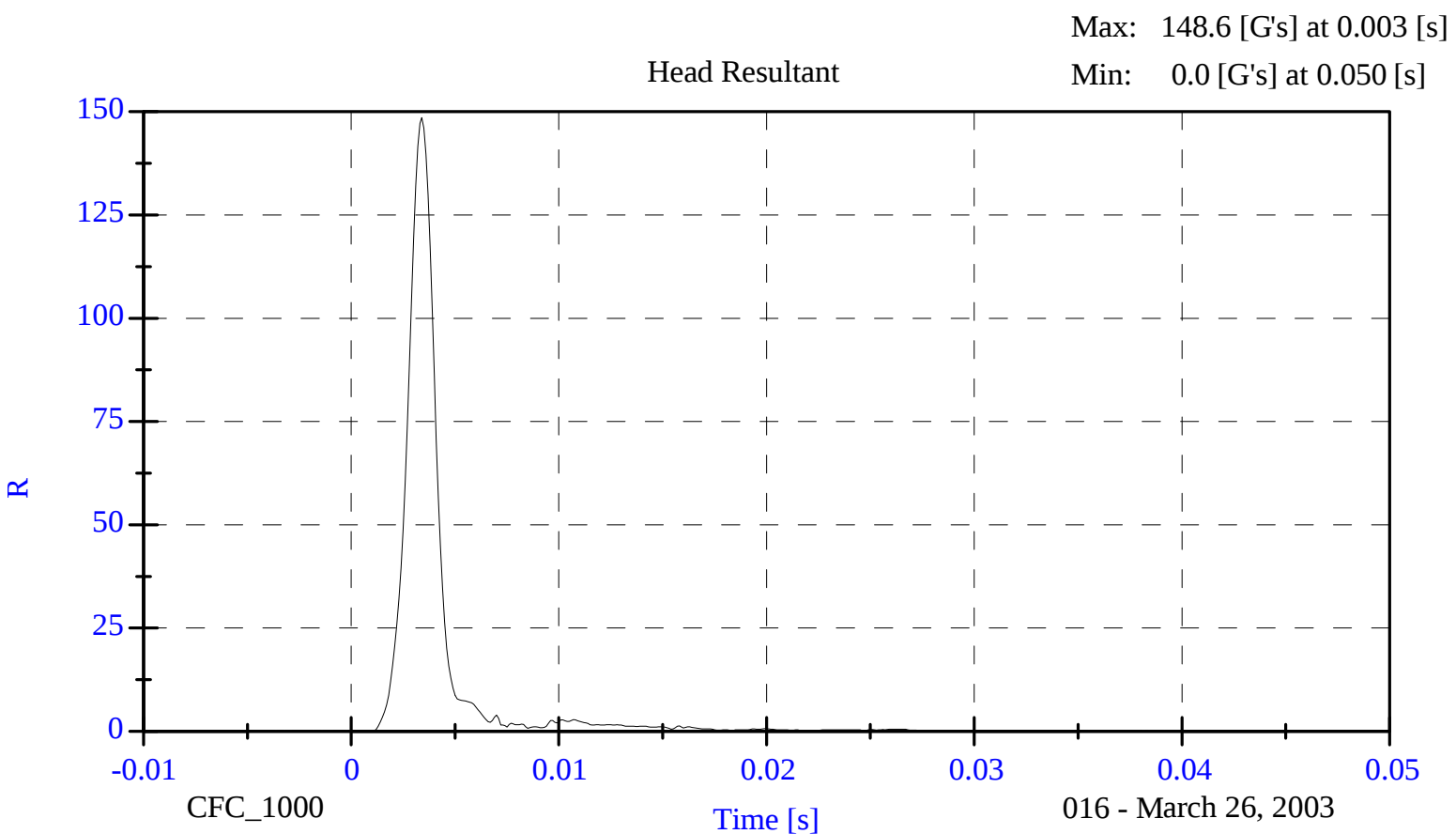
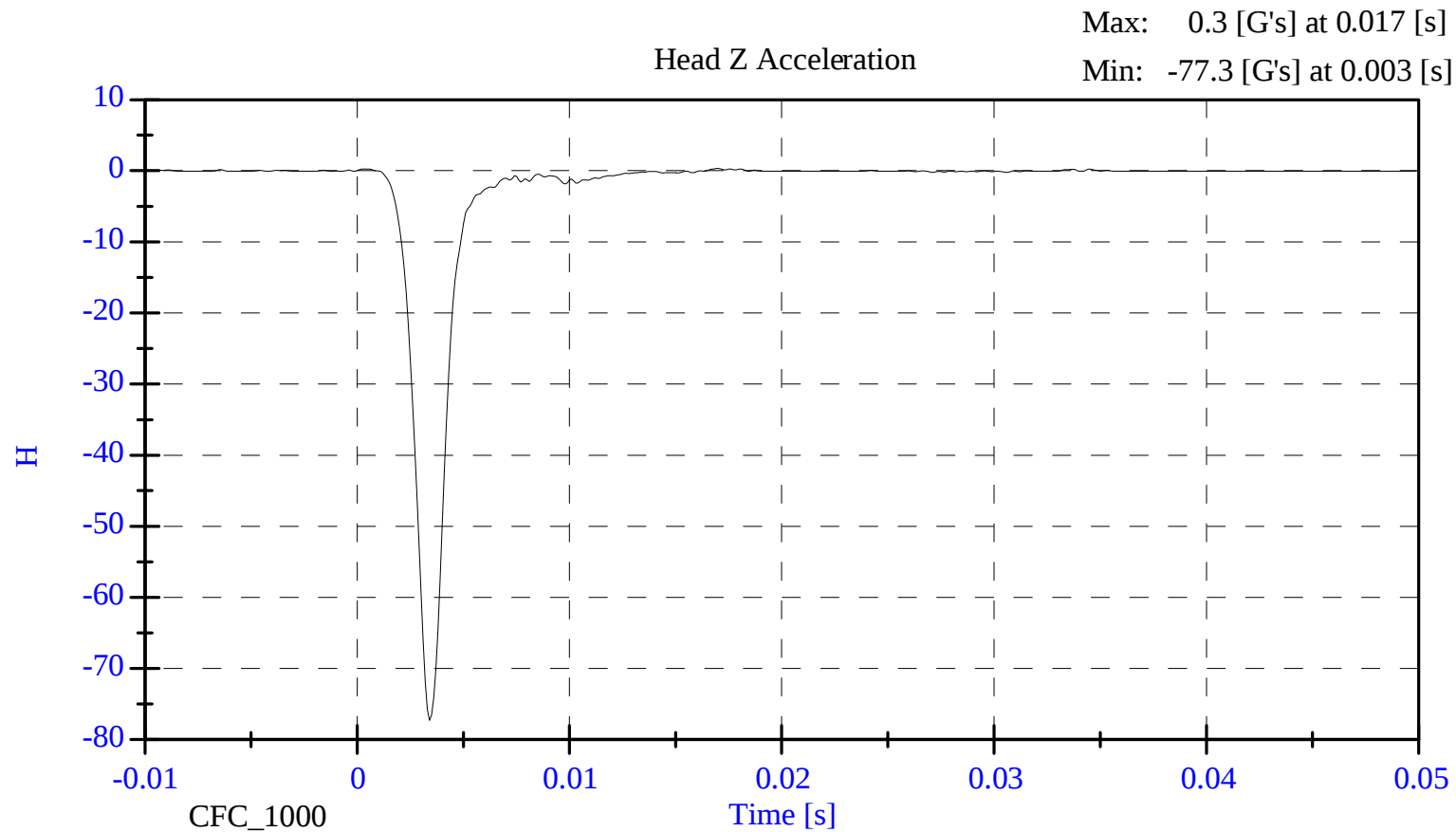
SID Serial No.: 016 Sequential Test Number: 3
Date: March 26, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	20.6 – 22.2	21.7
RELATIVE HUMIDITY (%)	10 – 70	31.00
PEAK RESULTANT ACCELERATION (Gs)	120 – 150	148.61
PEAK LATERAL ACCELERATION (Gs)	Not to Exceed 15	5.56
CURVE PERCENT NONMODAL (%)	< 15	2.61

REMARKS: None



Head Drop



**LATERAL NECK BENDING TEST
PRE-TEST**

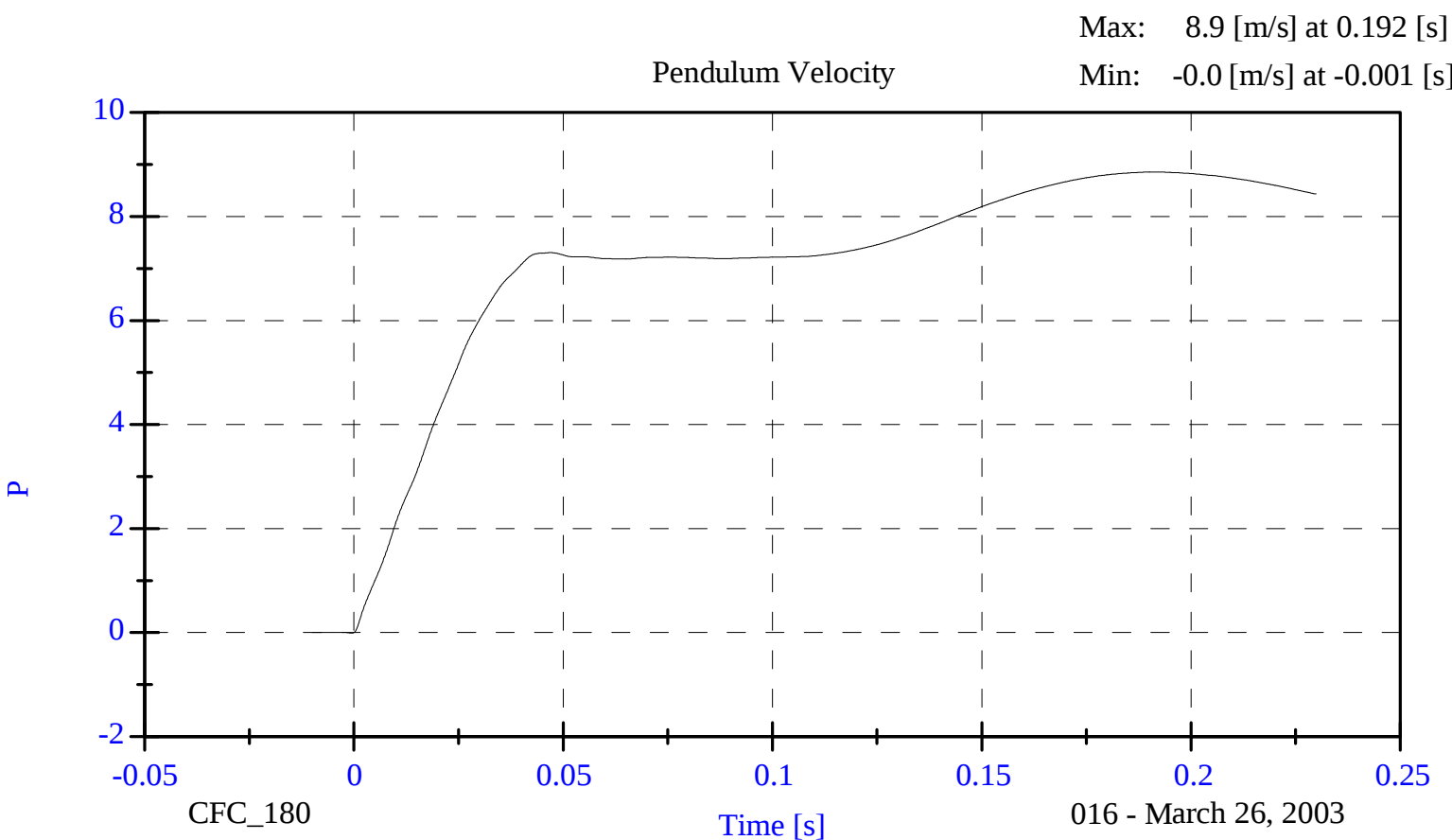
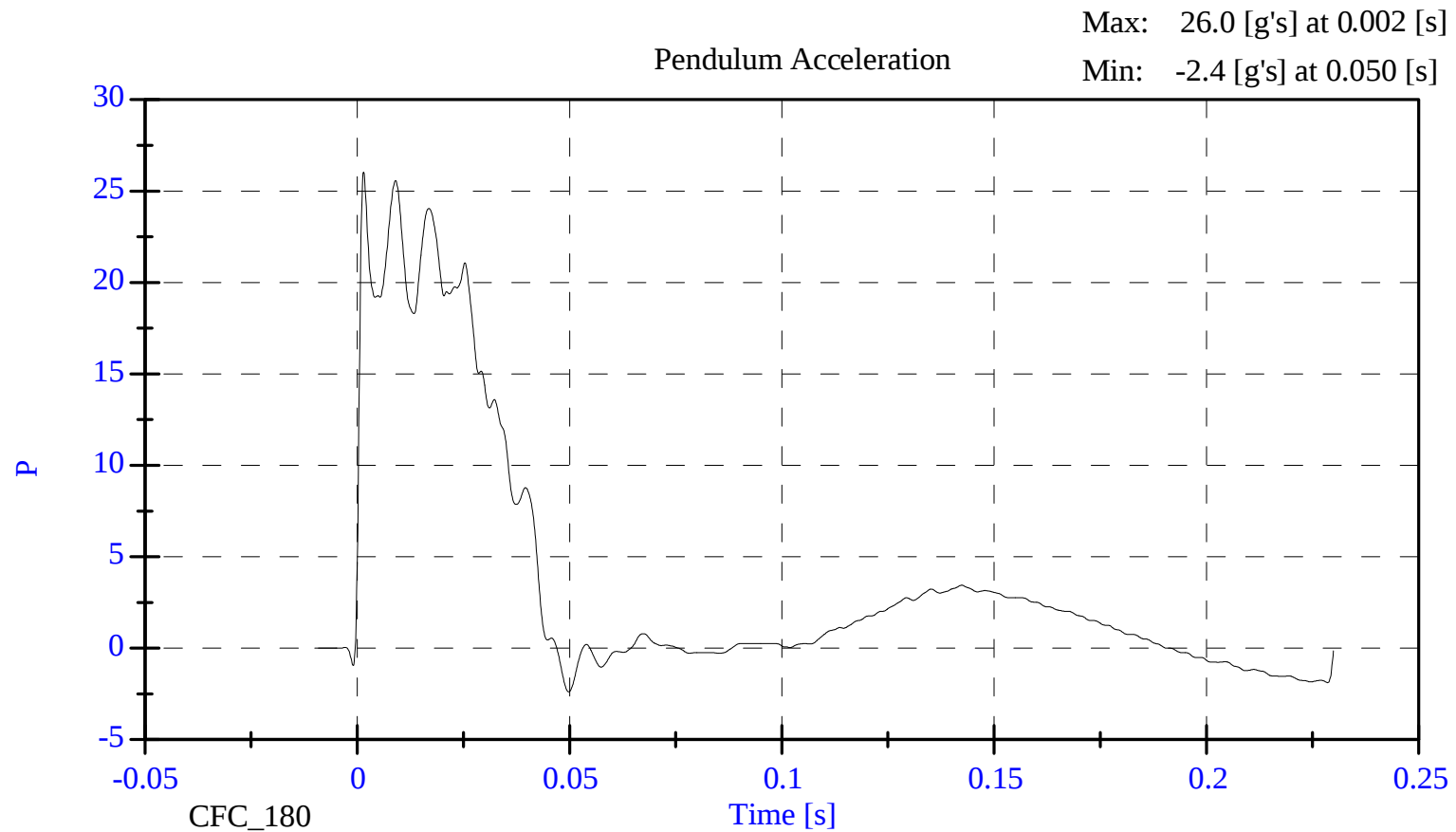
(Test not required for SID certification)

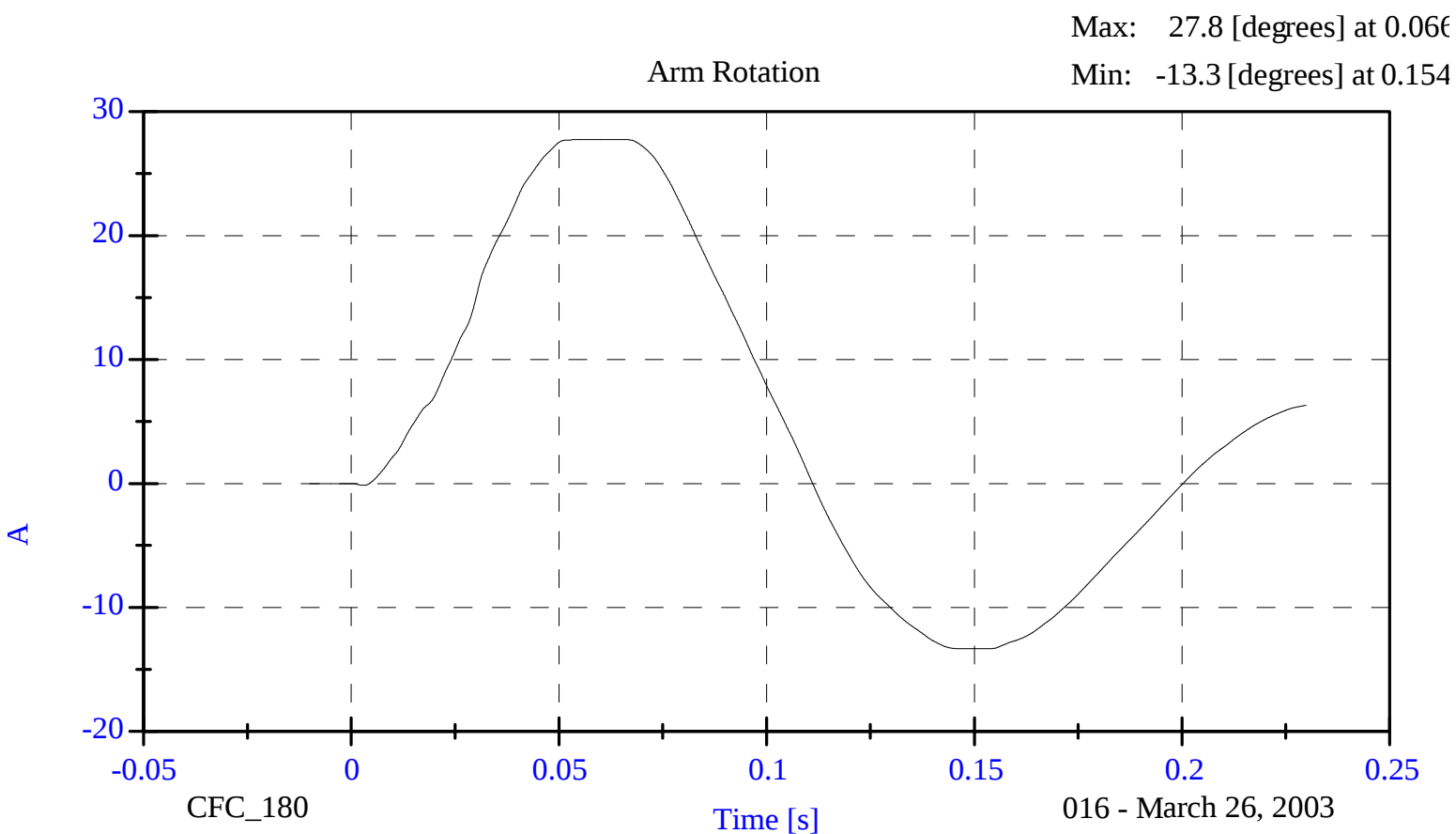
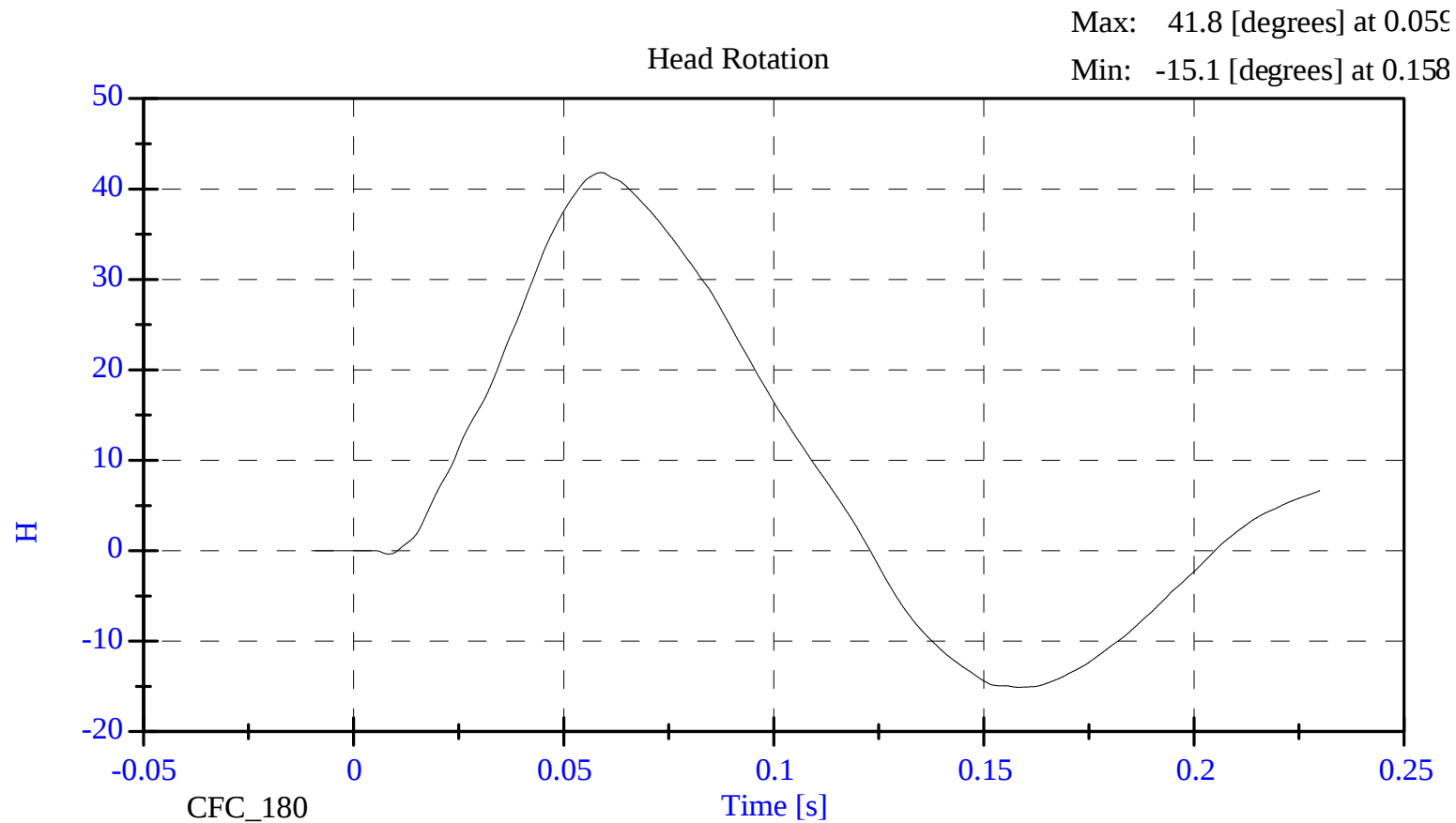
CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016	Sequential Test Number: 3	
Date: March 26, 2003	Laboratory Technician: B. Swiecicki	

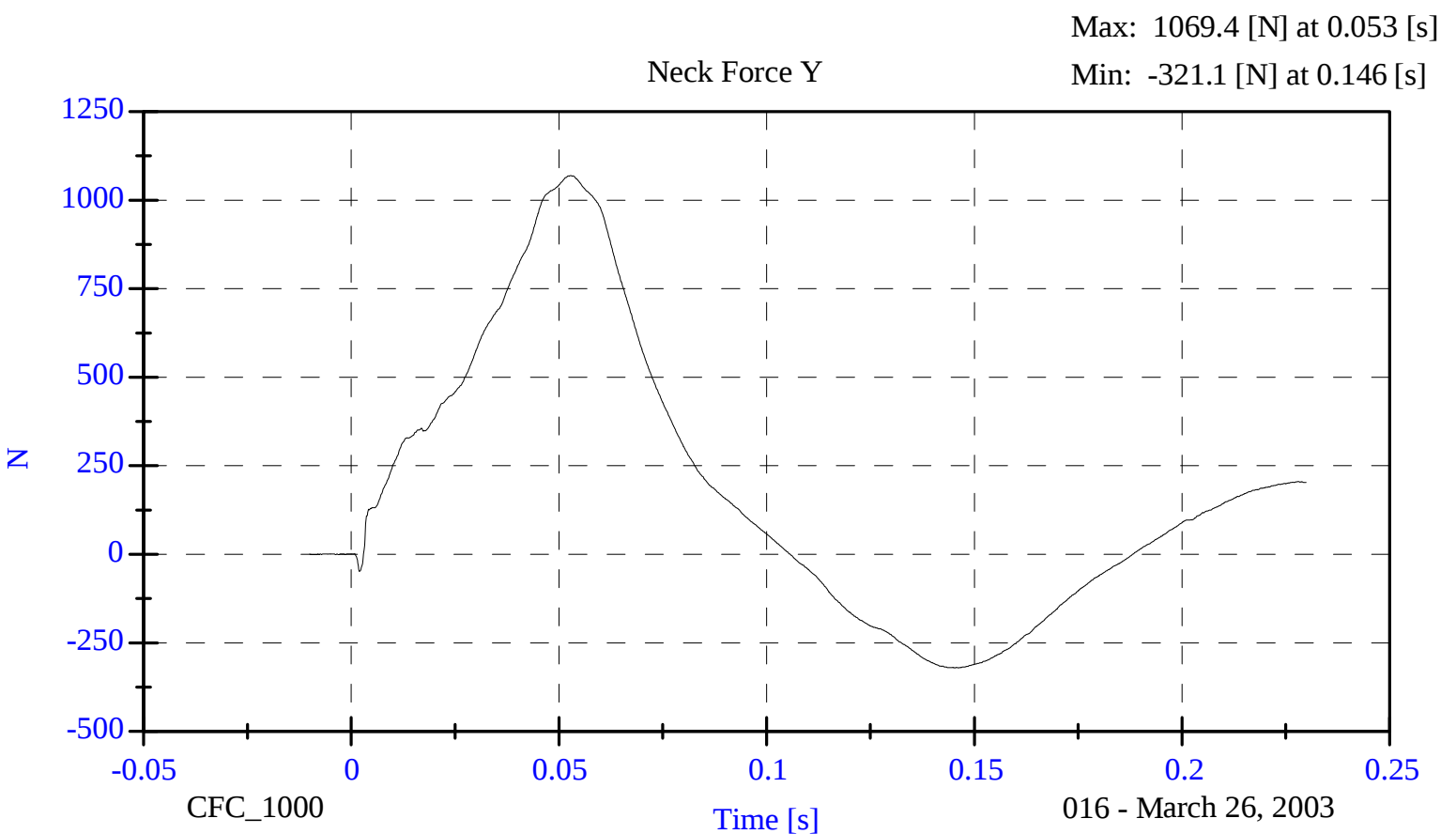
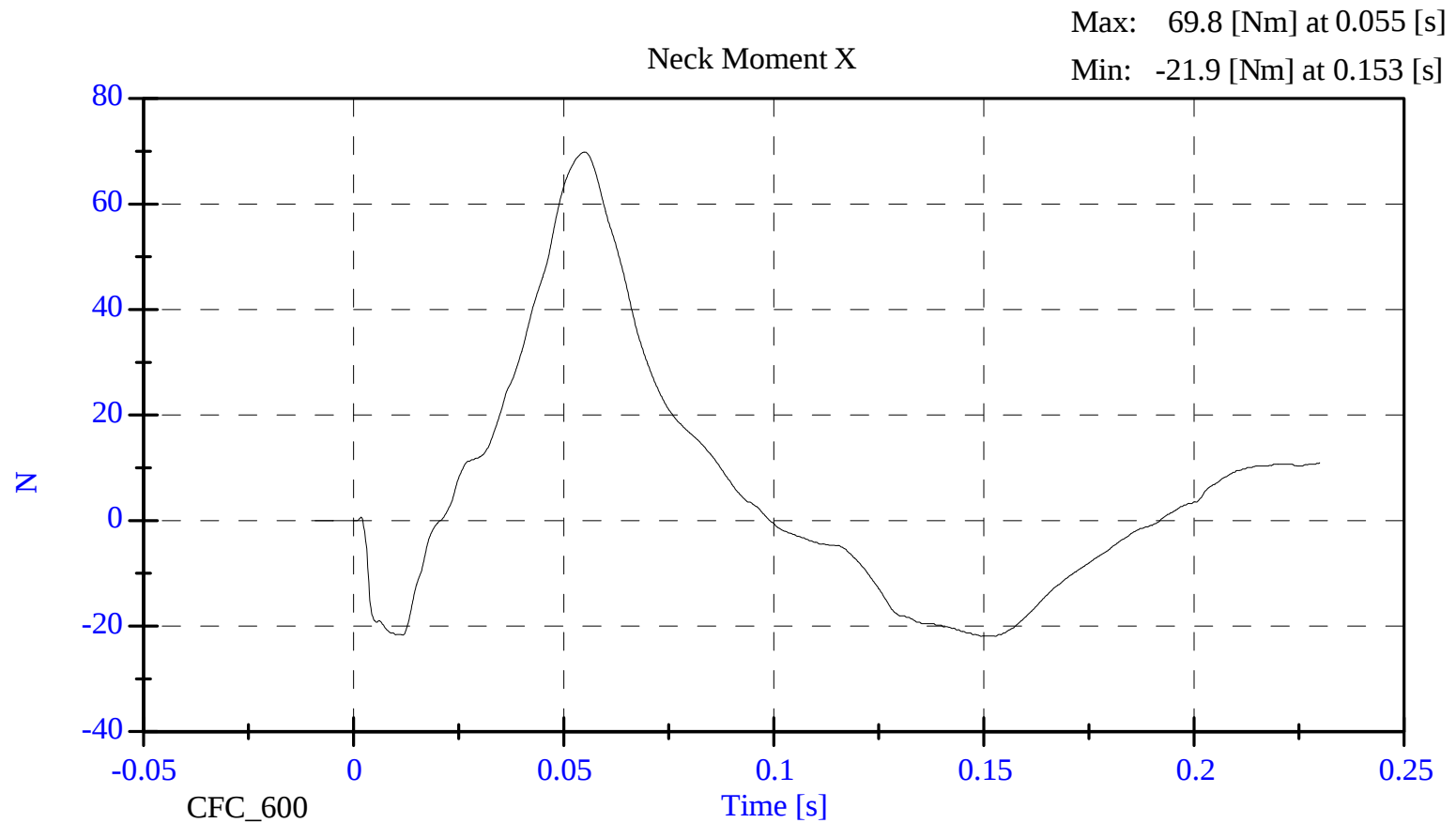
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	20.6 - 22.2	21.7
RELATIVE HUMIDITY (%)	10 - 70	31.00
IMPACT VELOCITY (m/s)	6.89 – 7.13	6.97
PENDULUM DELTA V		
DELTA V @ 10 ms (m/s)	1.96 – 2.55	2.11
DELTA V @ 20 ms (m/s)	4.12 – 5.10	4.20
DELTA V @ 30 ms (m/s)	5.73 – 7.01	6.02
DELTA V @ 40-70 ms (m/s)	6.27 – 7.64	7.36
D PLANE ROTATION		
MAXIMUM ROTATION (deg)	64 – 78	69.58
ROT. ANGLE TIME to ZERO (ms)	50 – 70	58.50
MOMENT ABOUT THE OCCIPITAL CONDYLE		
MAX OCCIPITAL MOMENT (Nm)	88 – 108	88.58
OCCIPITAL MOMENT DECAY (ms)	40.0 – 60.0	136.60
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT		
ROTATION wrt MOMENT (ms)	0 – 20	4.30

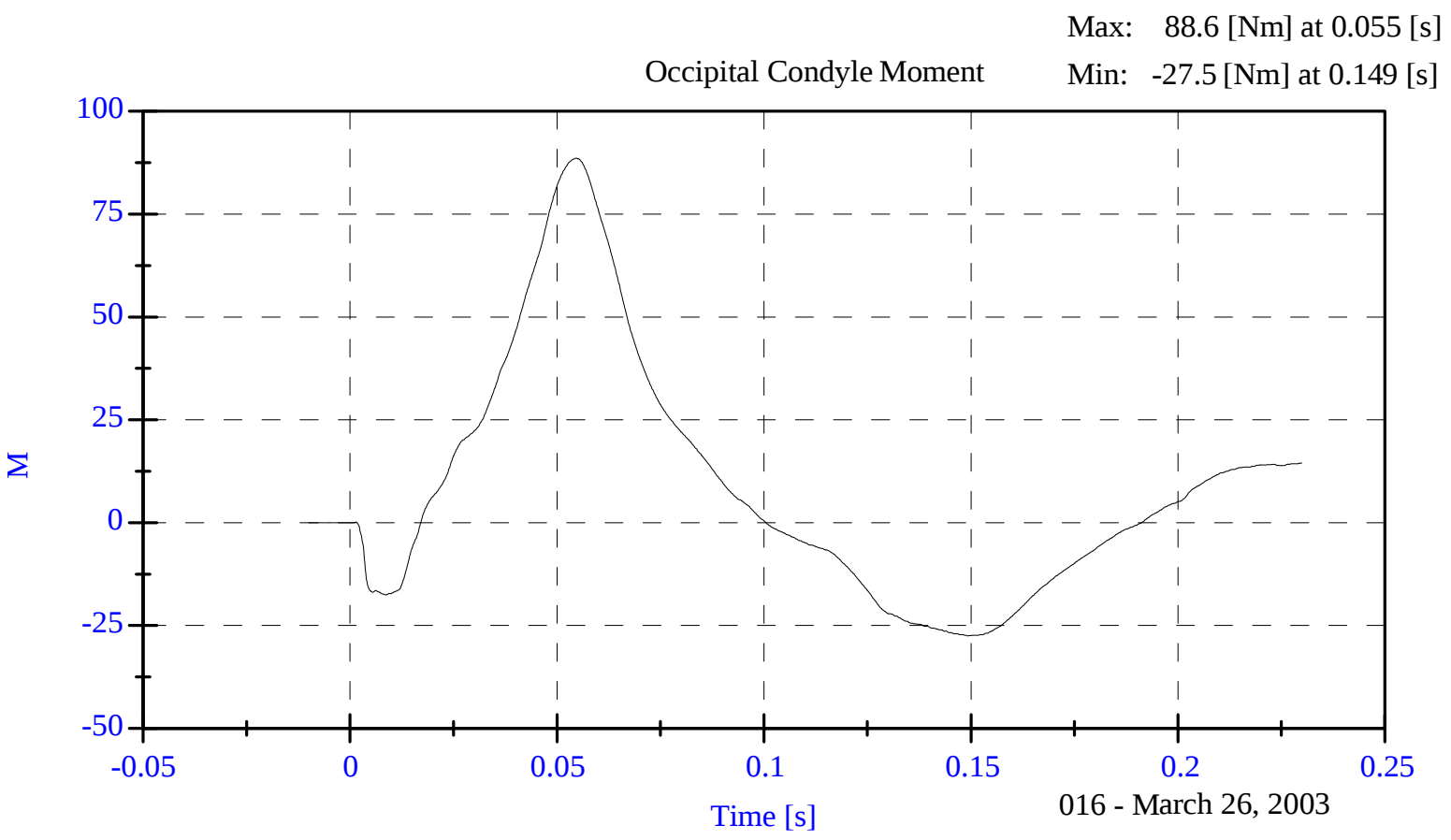
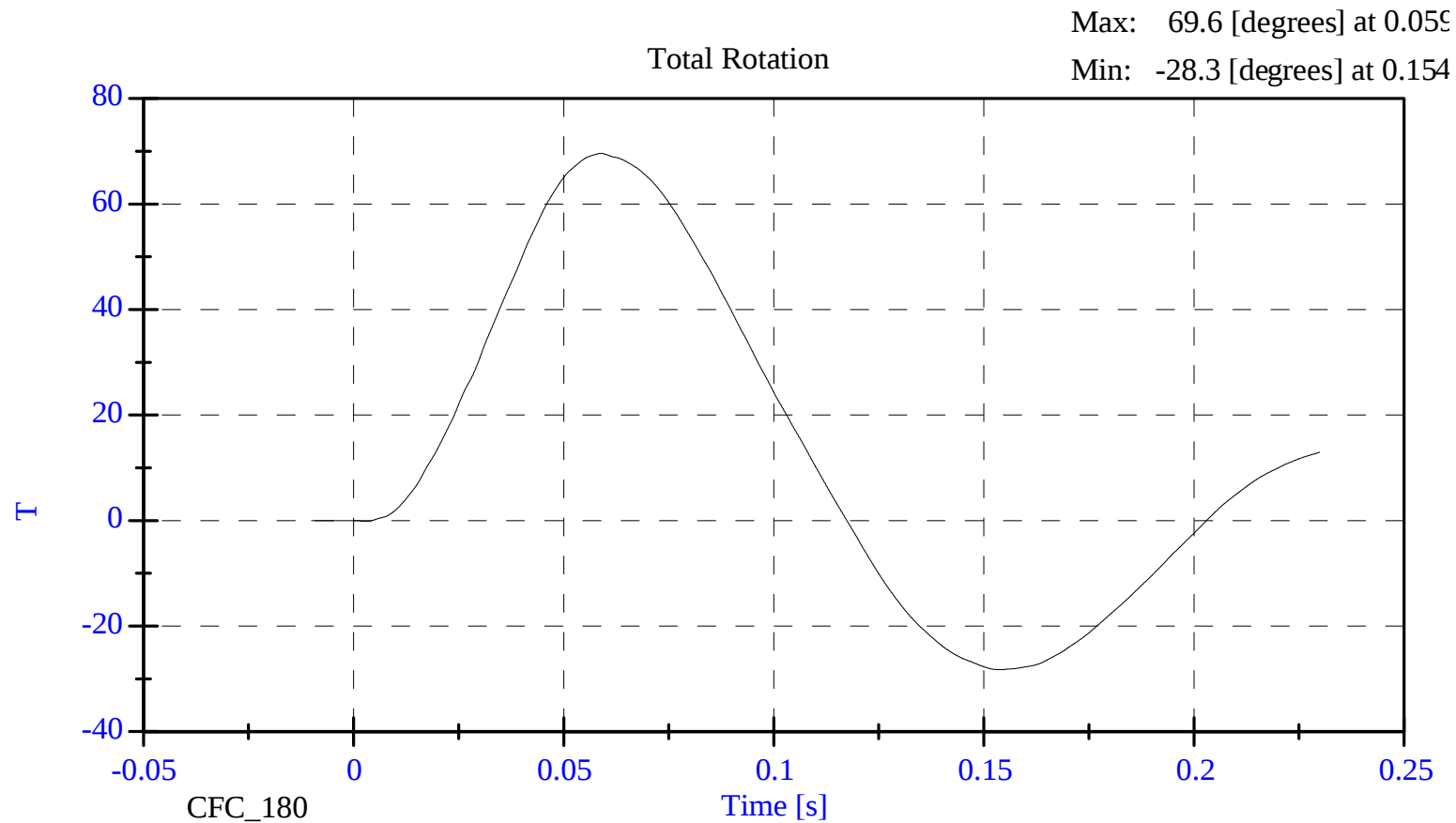
REMARKS: None





016 - March 26, 2003





**ABDOMINAL COMPRESSION TEST
PRE-TEST**

(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.0
FORCE @ 13 mm (N)	104 - 162	116.54
FORCE @ 19 mm (N)	163 - 221	168.1
FORCE @ 25 mm (N)	222 - 280	253.1
FORCE @ 33 mm (N)	325 - 391	363.86

REMARKS: None

Dummy S/N 216

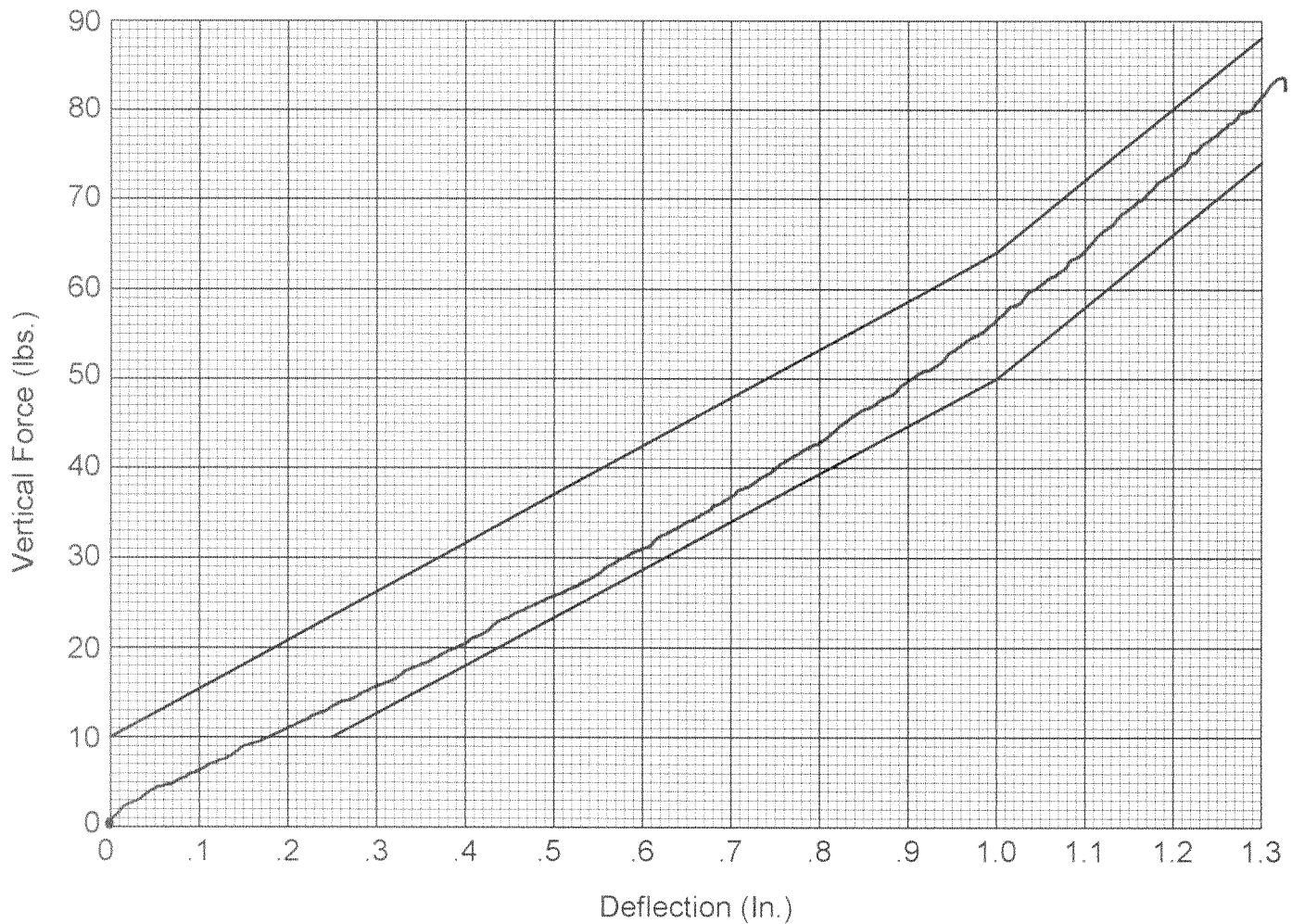
W/A _____

Date 03-27-03

Performed By [Signature]

Temp. 70°

Humidity 35%



Hybrid II
Abdomen Static Press

LUMBAR FLEXION TEST
PRE-TEST
(Test not required for SID certification)

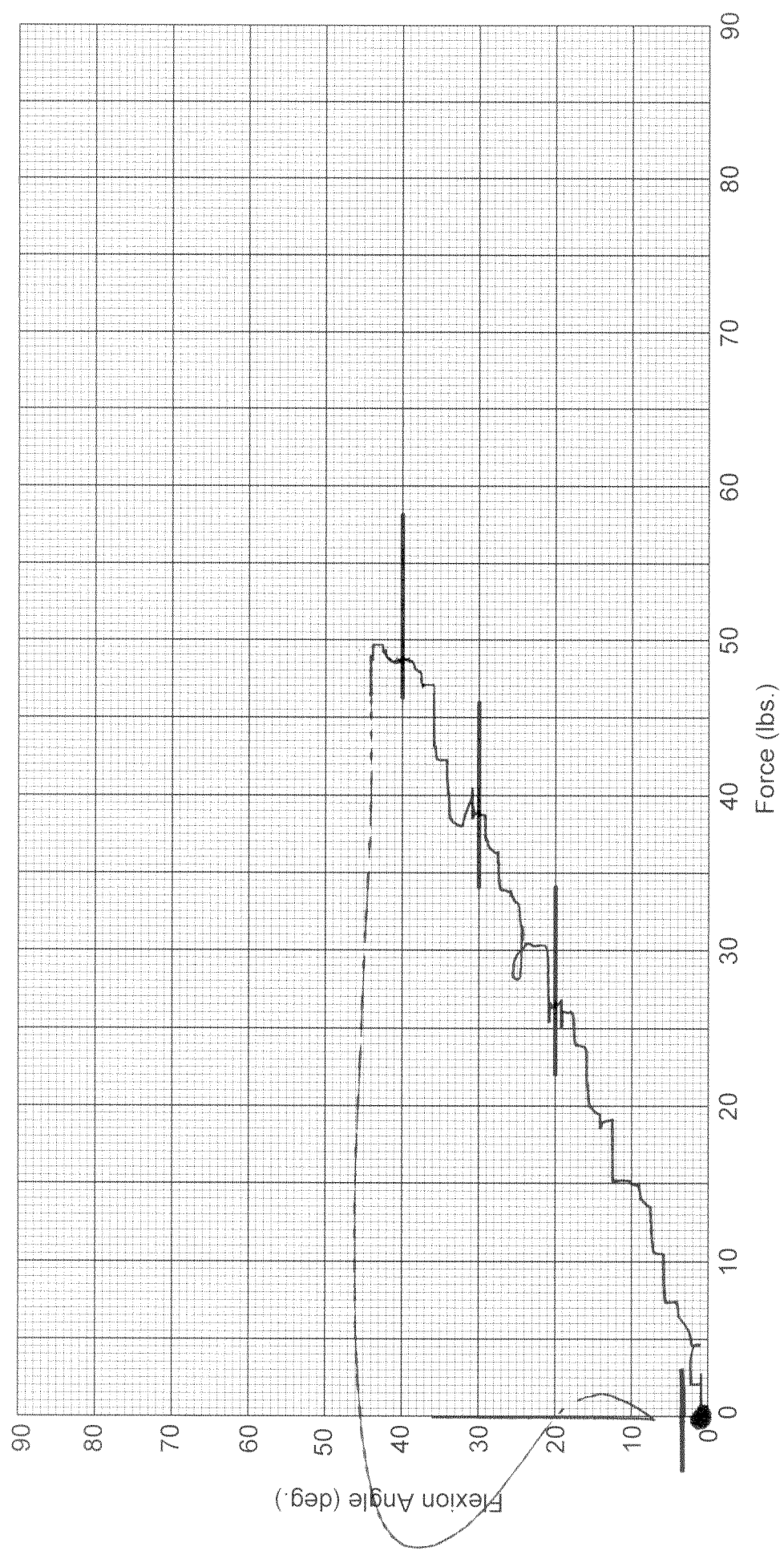
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 3
Date: March 27, 2003 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	38.0
FORCE @ 0° (N)	0 - 26.7	0.0
FORCE @ 20° (N)	97.8 - 151.2	117.88
FORCE @ 30° (N)	151.2 - 204.6	171.26
FORCE @ 40° (N)	204.6 - 258	215.74
RETURN ANGLE	12° max.	4.2

REMARKS: None

Dummy S/N 016
 W/A _____
 Date 03-28-03
 Performed By [Signature]
 Temp. 70°
 Humidity 38%



Hybrid II Lumbar Spine Flexion Test

PRE-TEST DUMMY INSPECTION LIST

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016	Sequential Test Number: 3
Date: March 27, 2003	Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

POST TEST

SID H3 NO.: 015

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	511
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	239
KH- Knee Pivot from Back Line (mm)	511 - 526	521
KV- Knee Pivot to Floor (mm)	490 - 505	493
HW- Hip Width (mm)	356 - 391	381

REMARKS: None

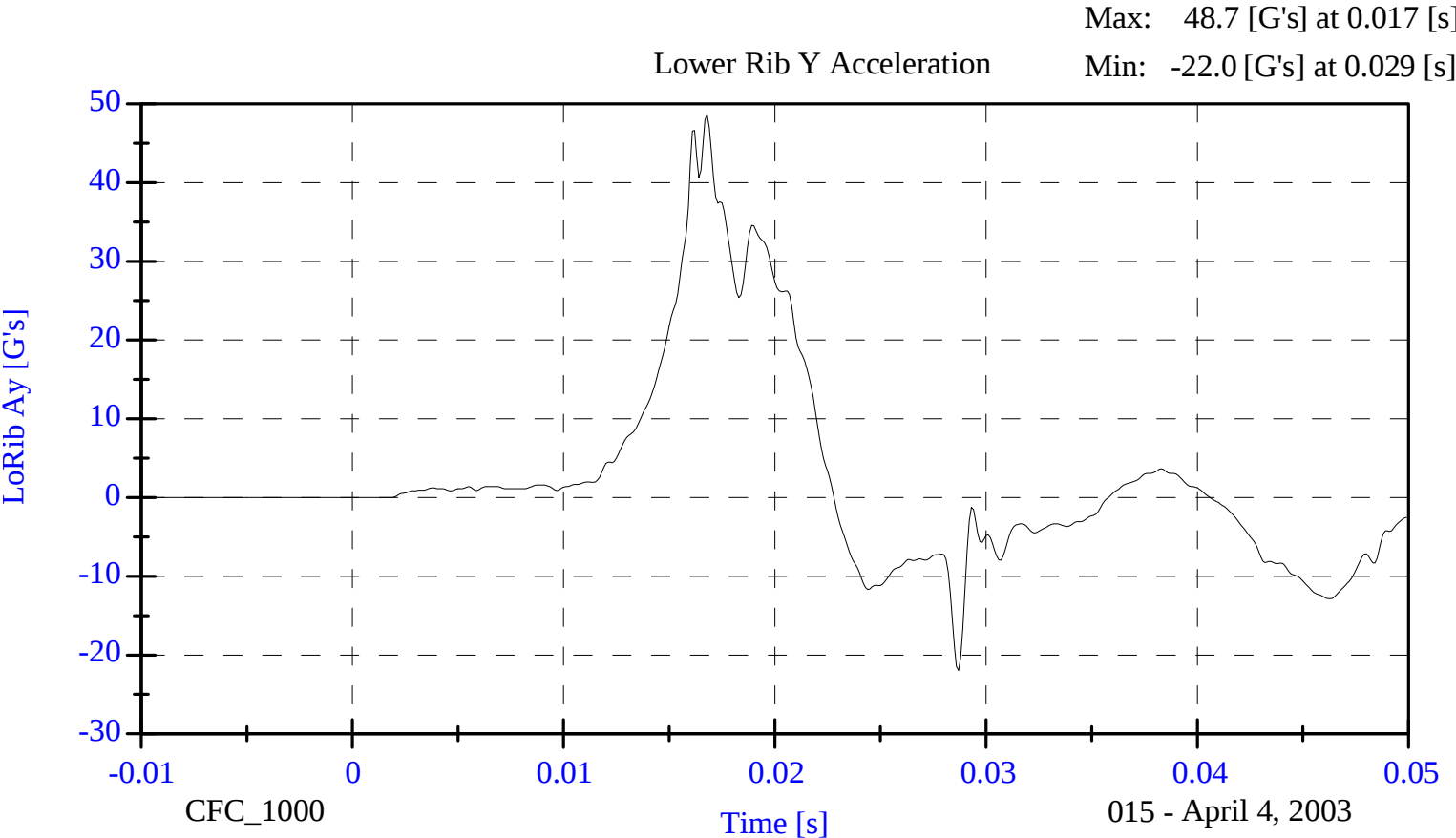
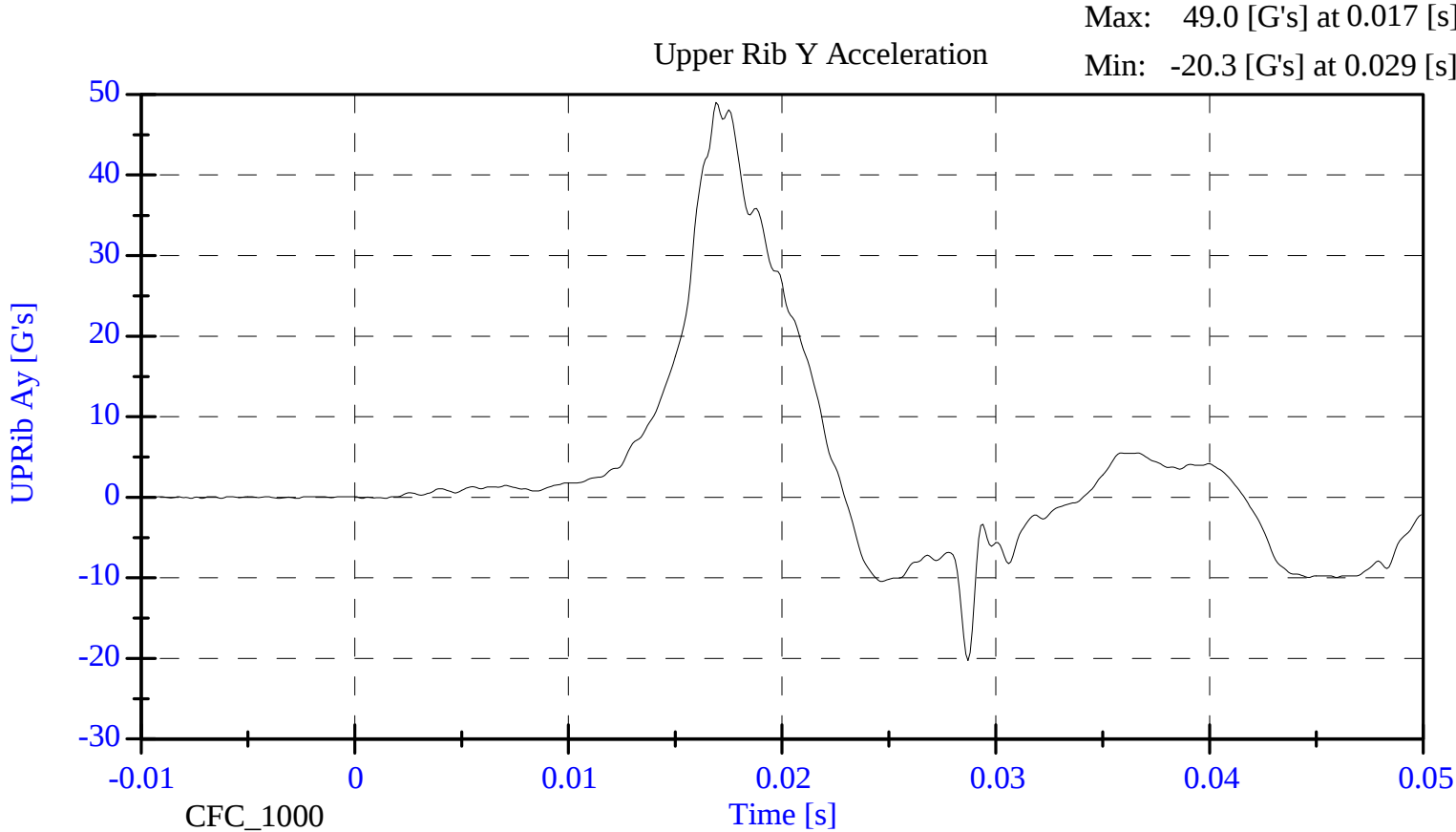
**LATERAL THORAX IMPACT TEST
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

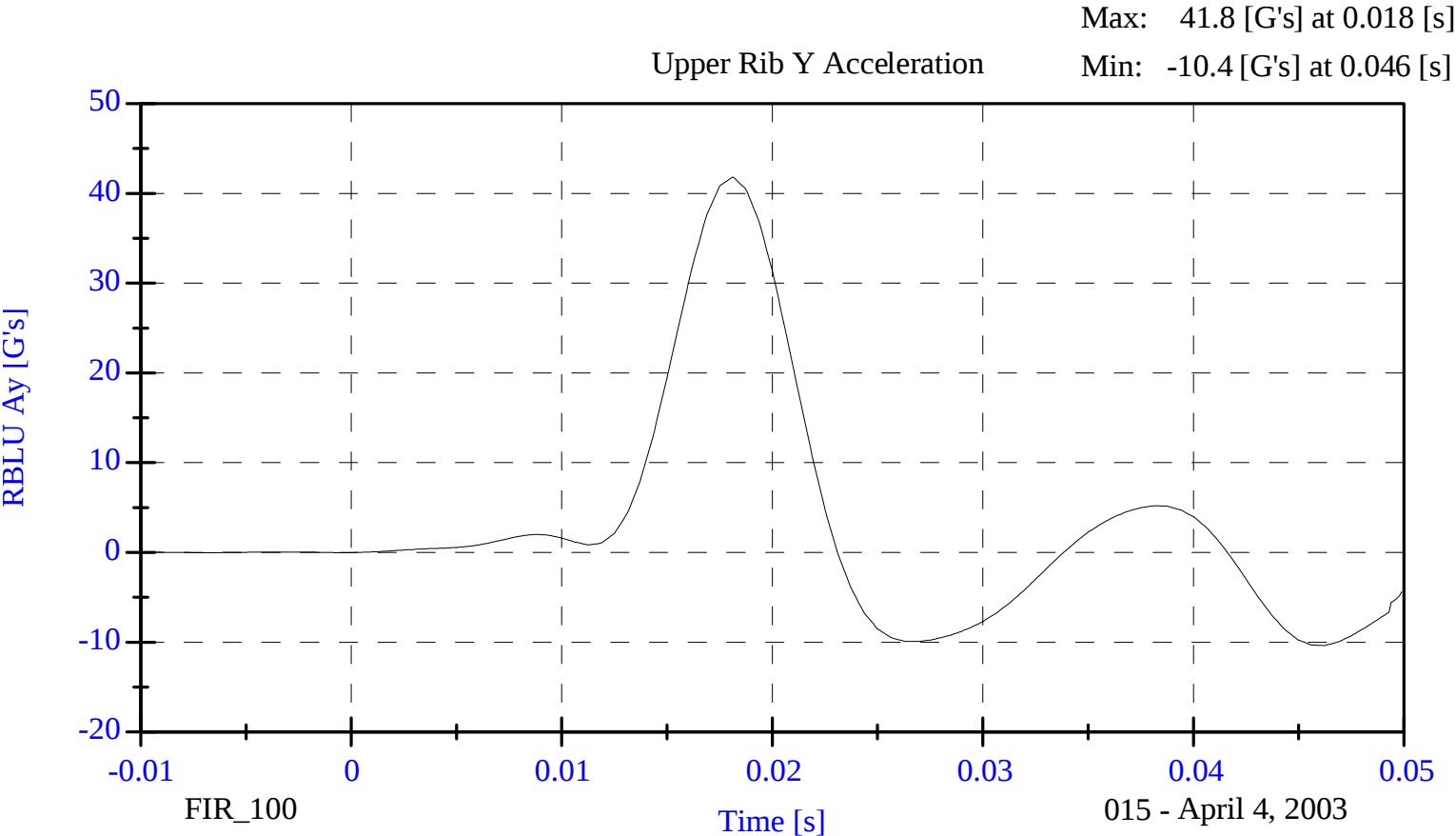
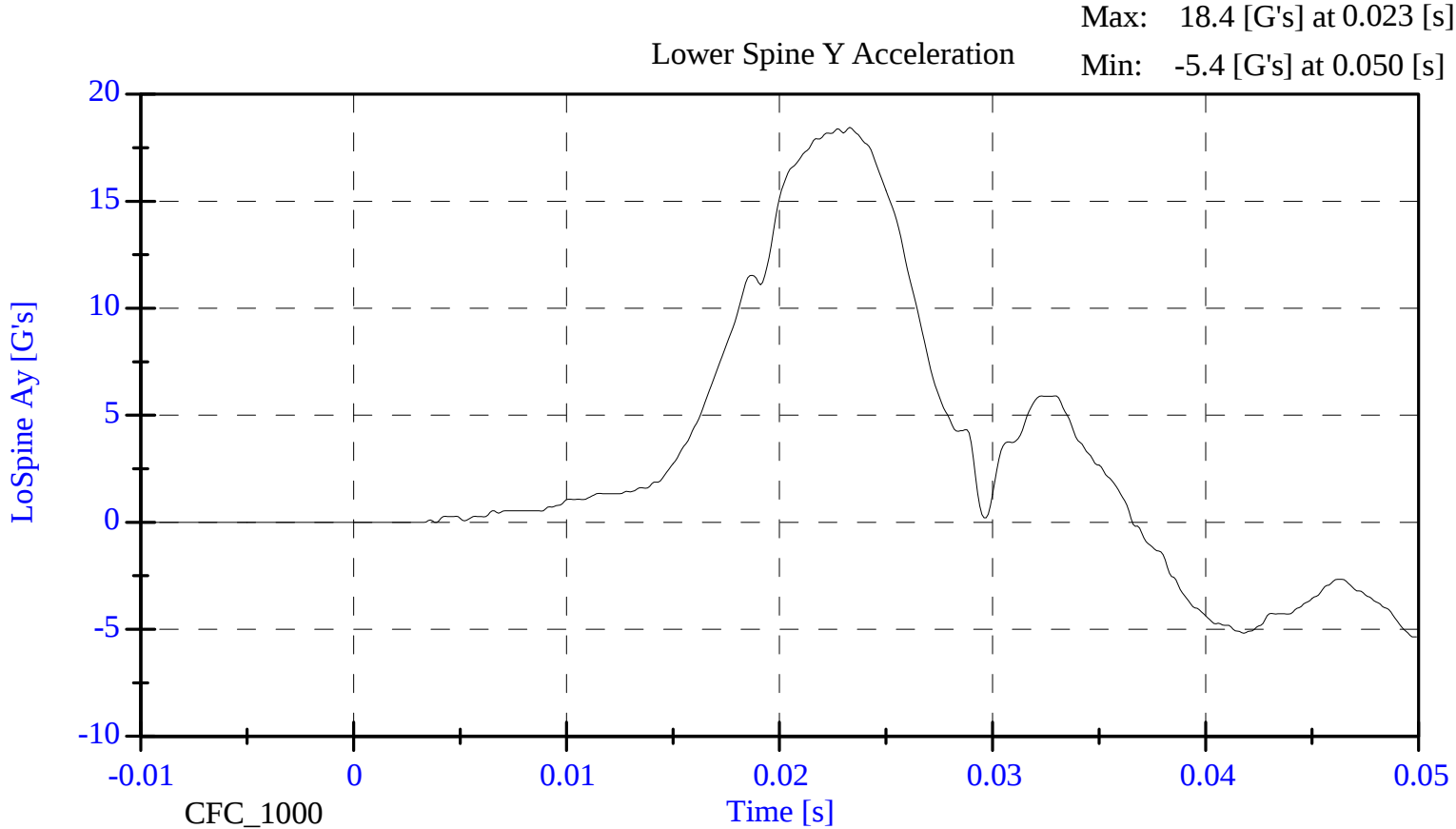
SID H3 Serial No.: 015 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

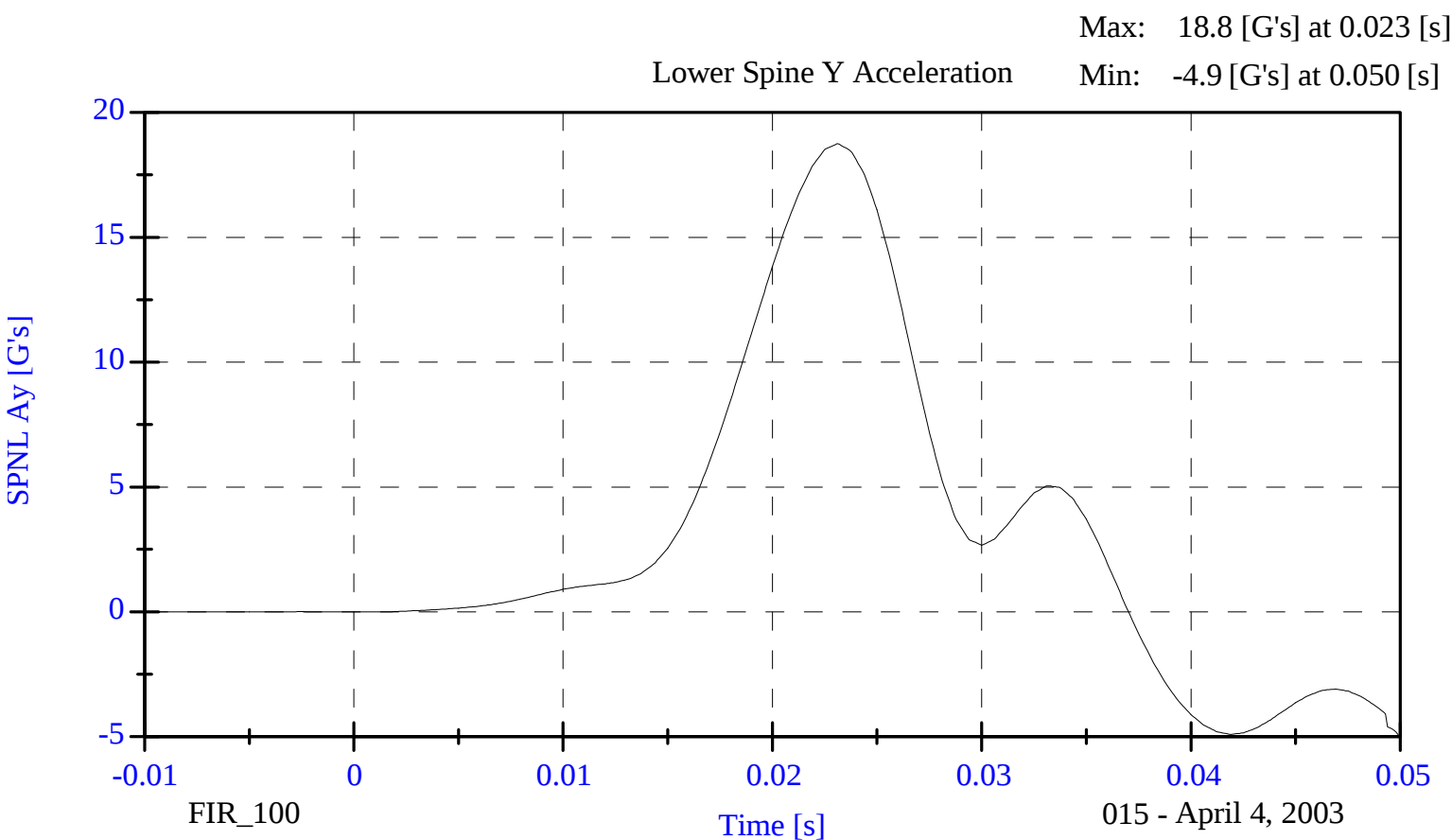
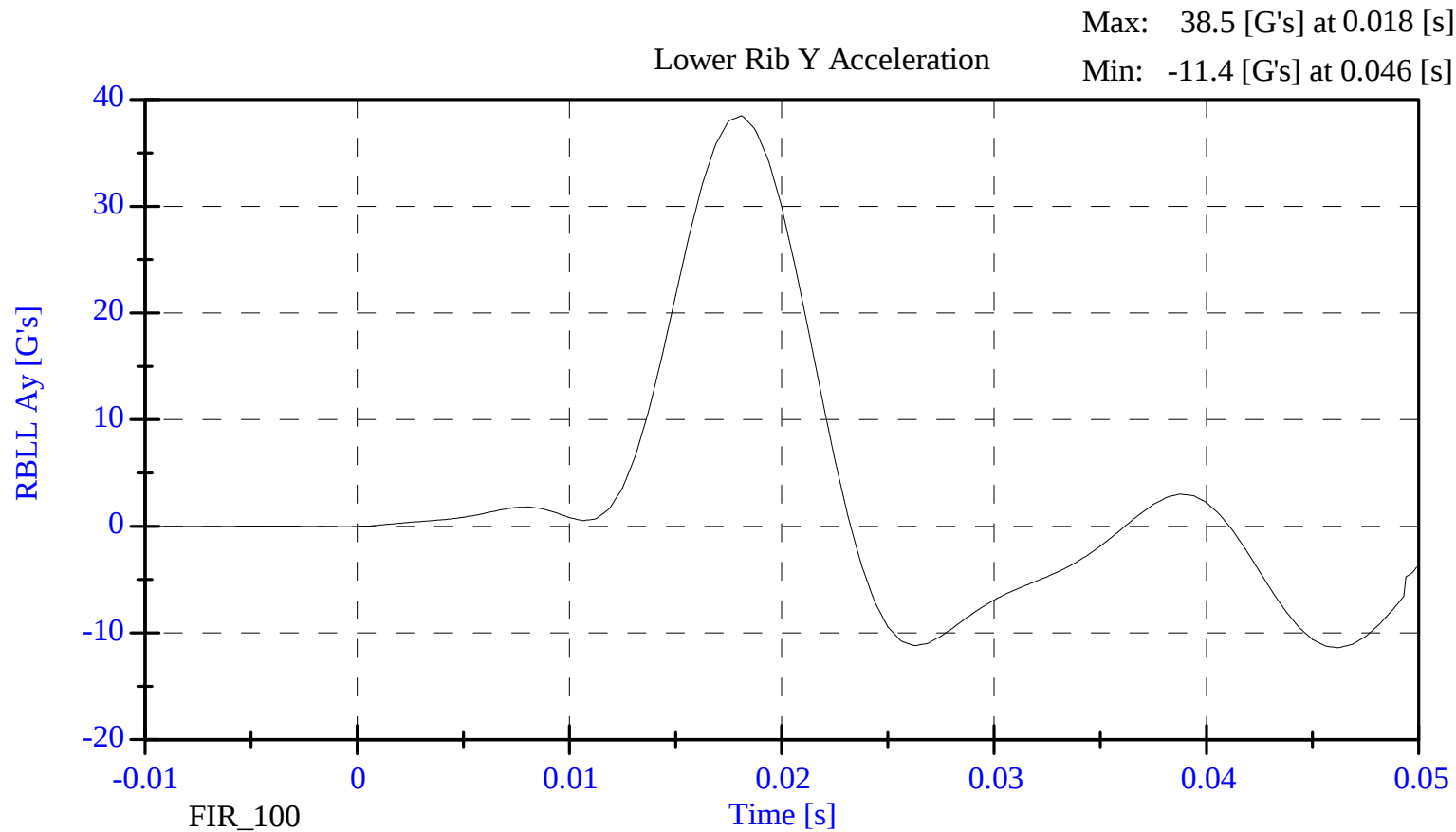
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	31.00
PROBE SPEED (m/s)	4.27 - 4.33	4.28
UPPER RIB (g's)	37 - 46	41.83
LOWER RIB (g's)	37 - 46	38.49
LOWER SPINE (g's)	15 - 22	18.75

REMARKS: None



015 - April 4, 2003





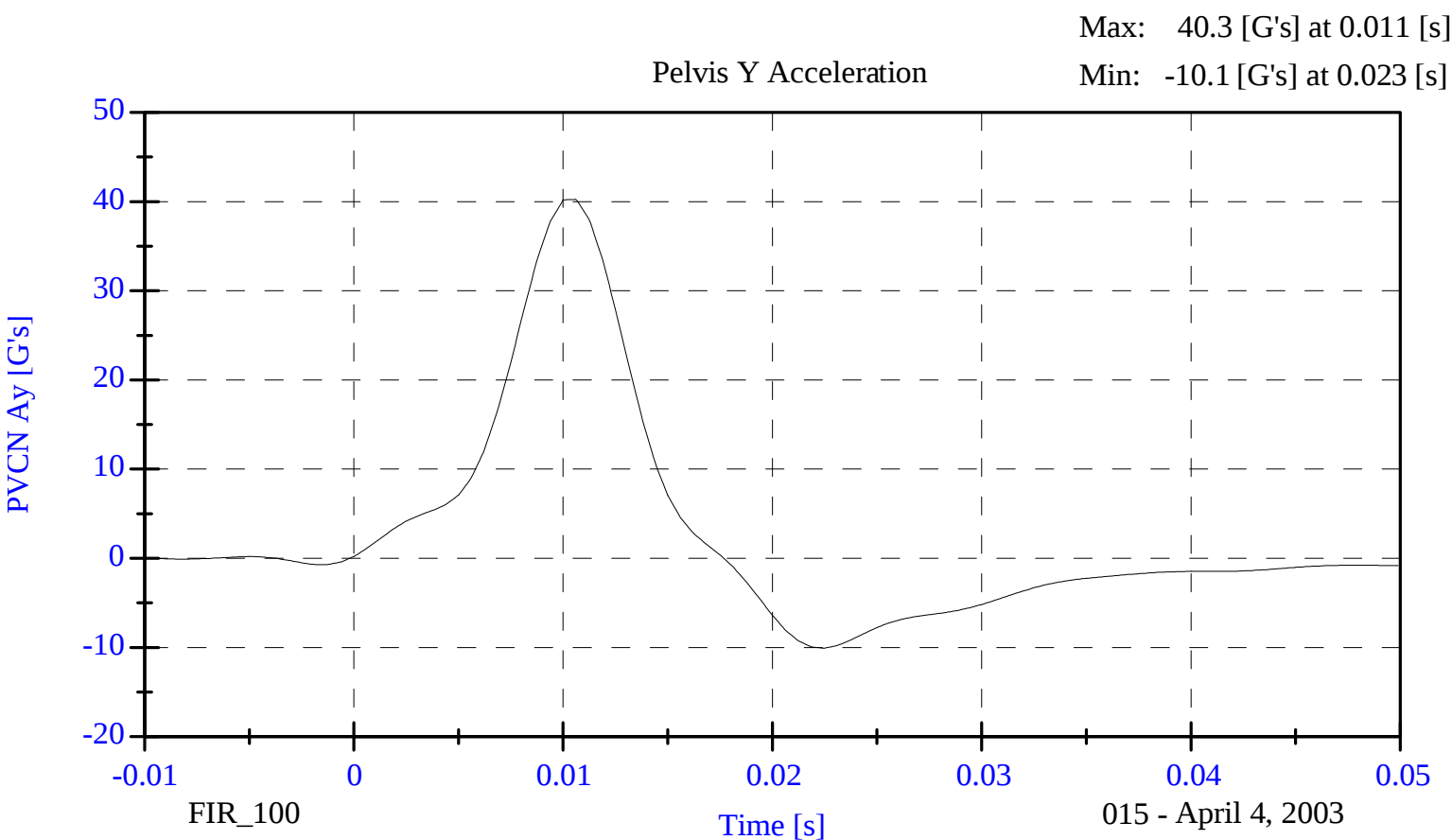
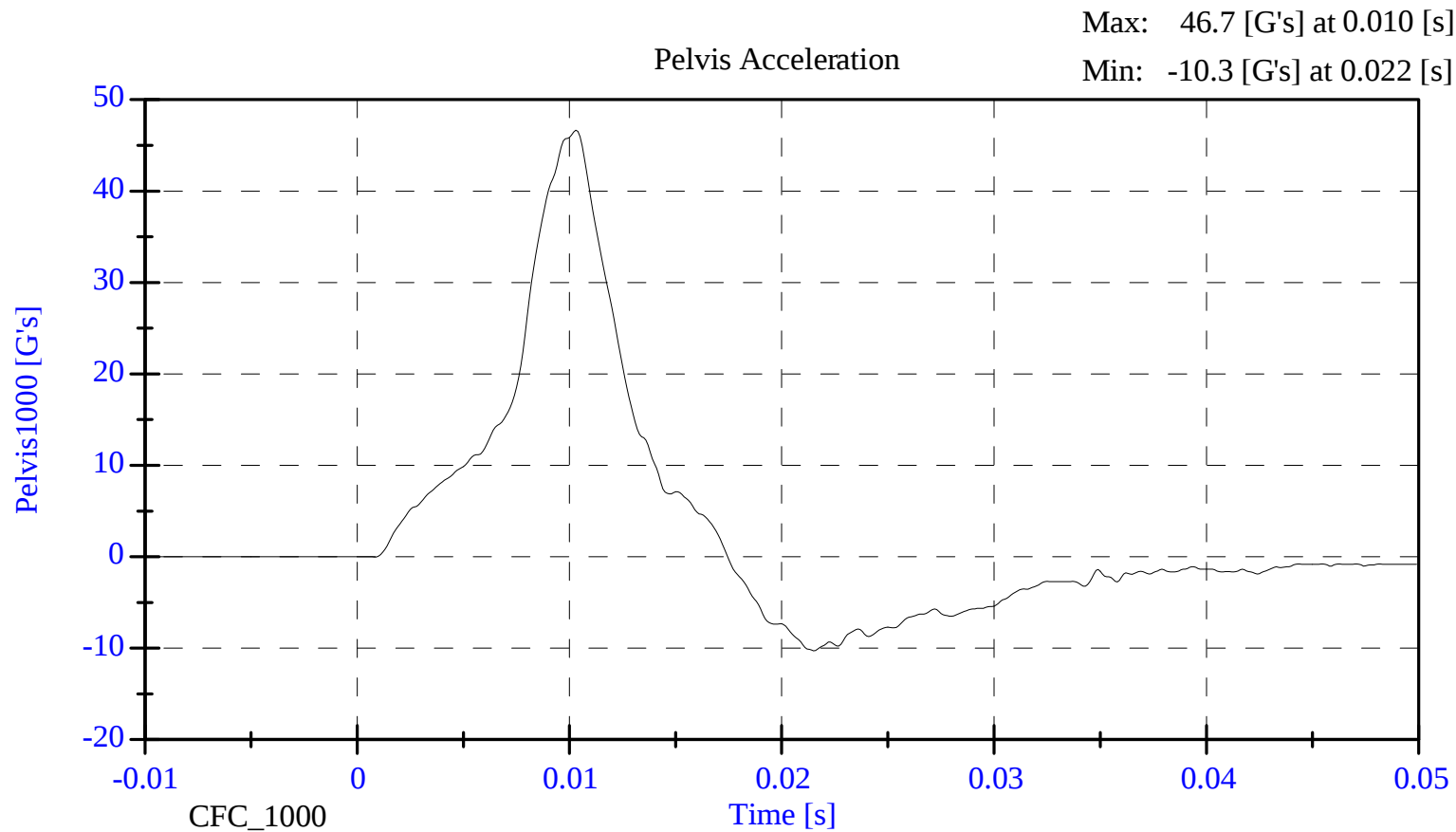
**LATERAL PELVIS IMPACT TEST
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	32.00
PROBE SPEED (m/s)	4.27 - 4.33	4.28
PELVIS ACCELERATION (g's)	40 - 60	40.27

REMARKS: None



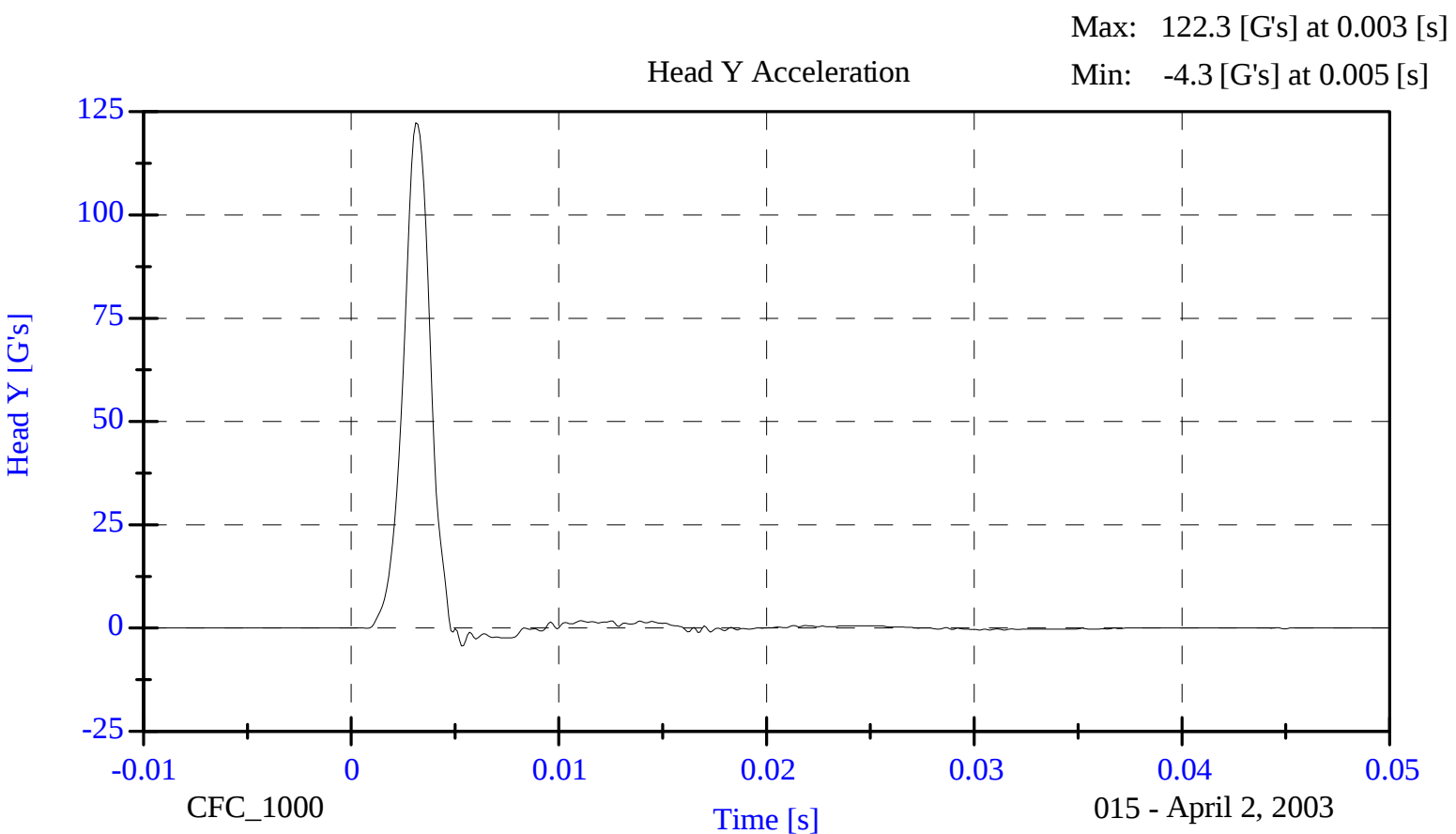
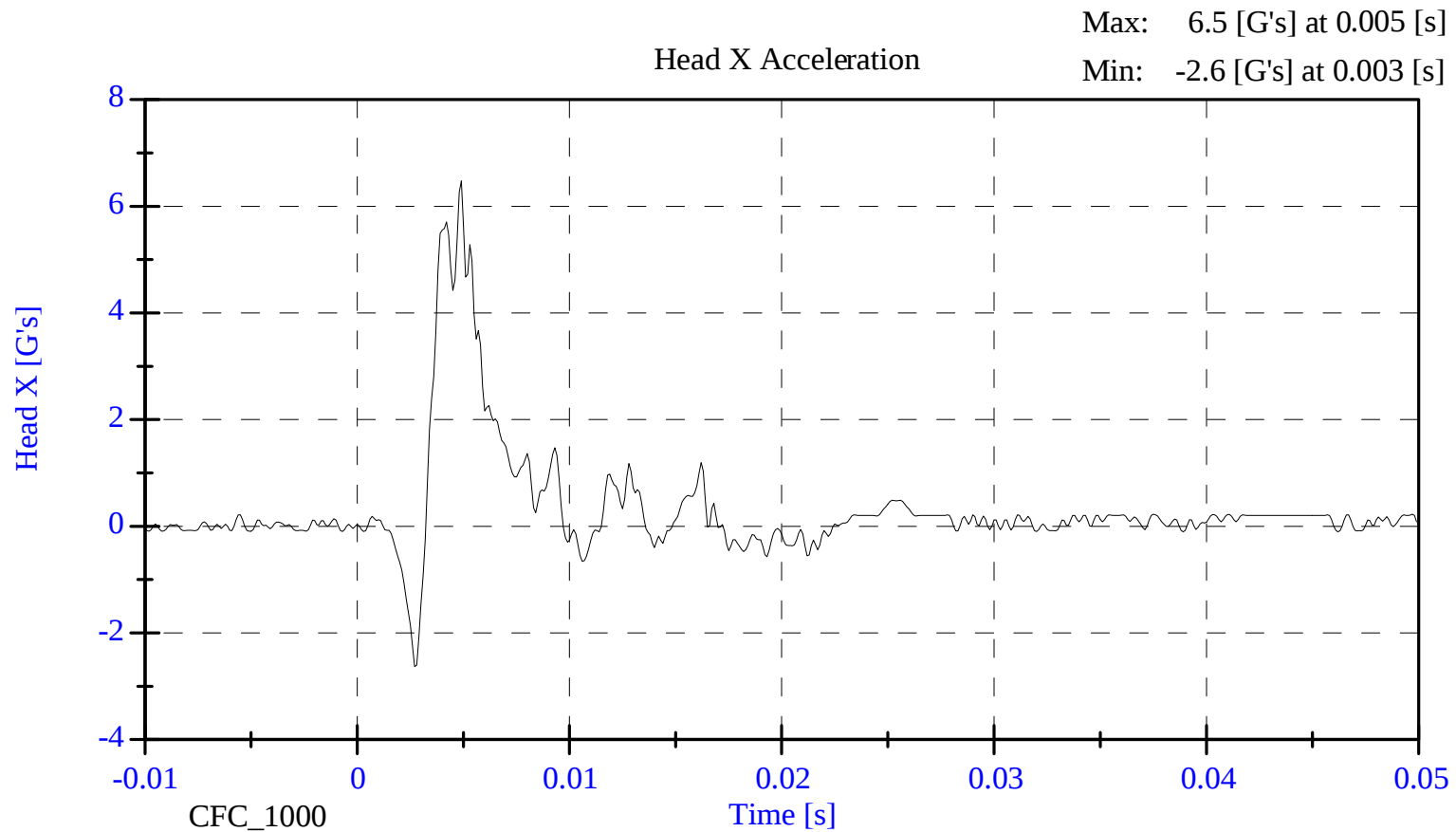
**HEAD DROP TEST
POST-TEST**
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 015 Sequential Test Number: 4
Date: April 2, 2004 Laboratory Technician: B. Swiecicki

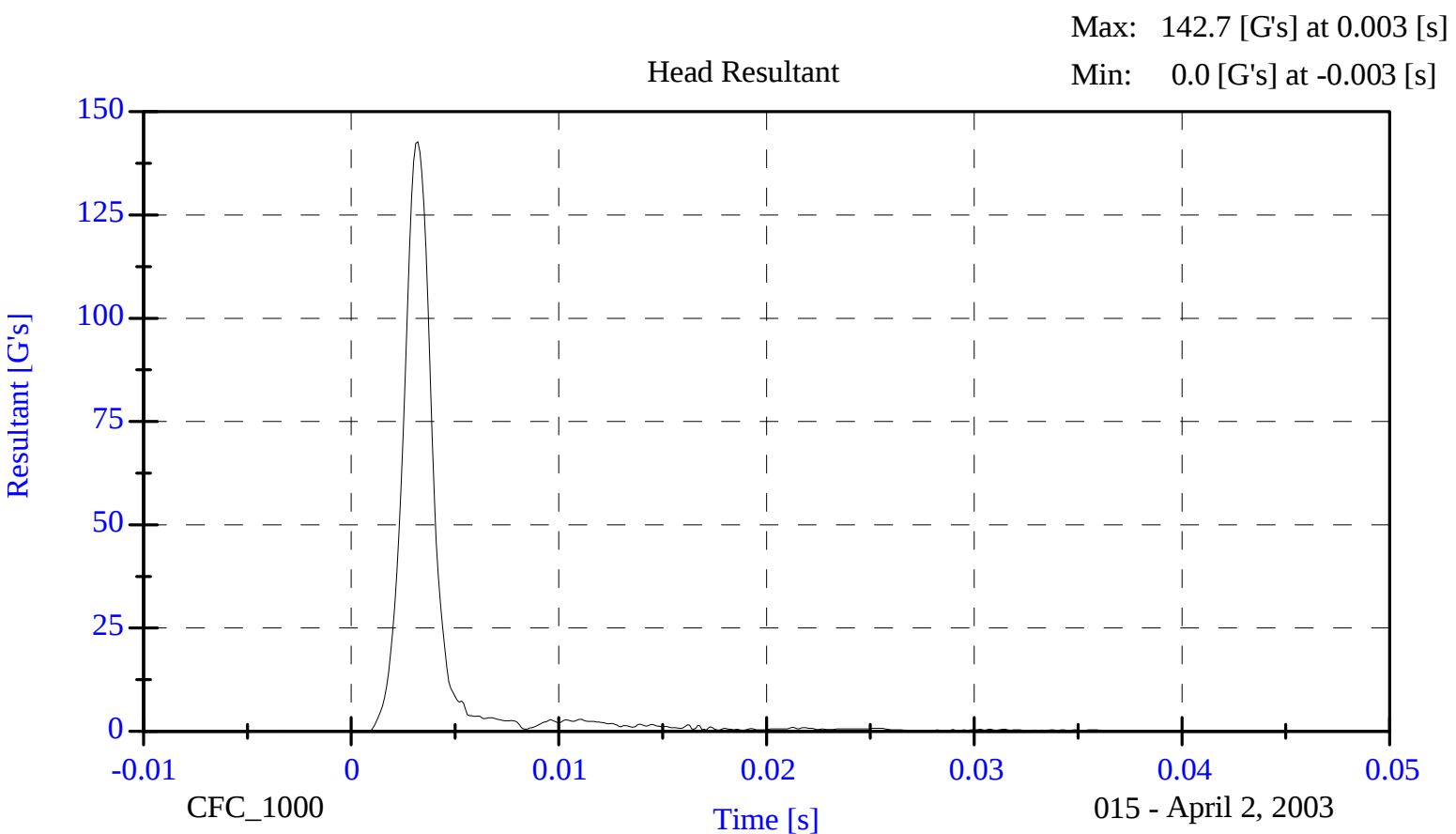
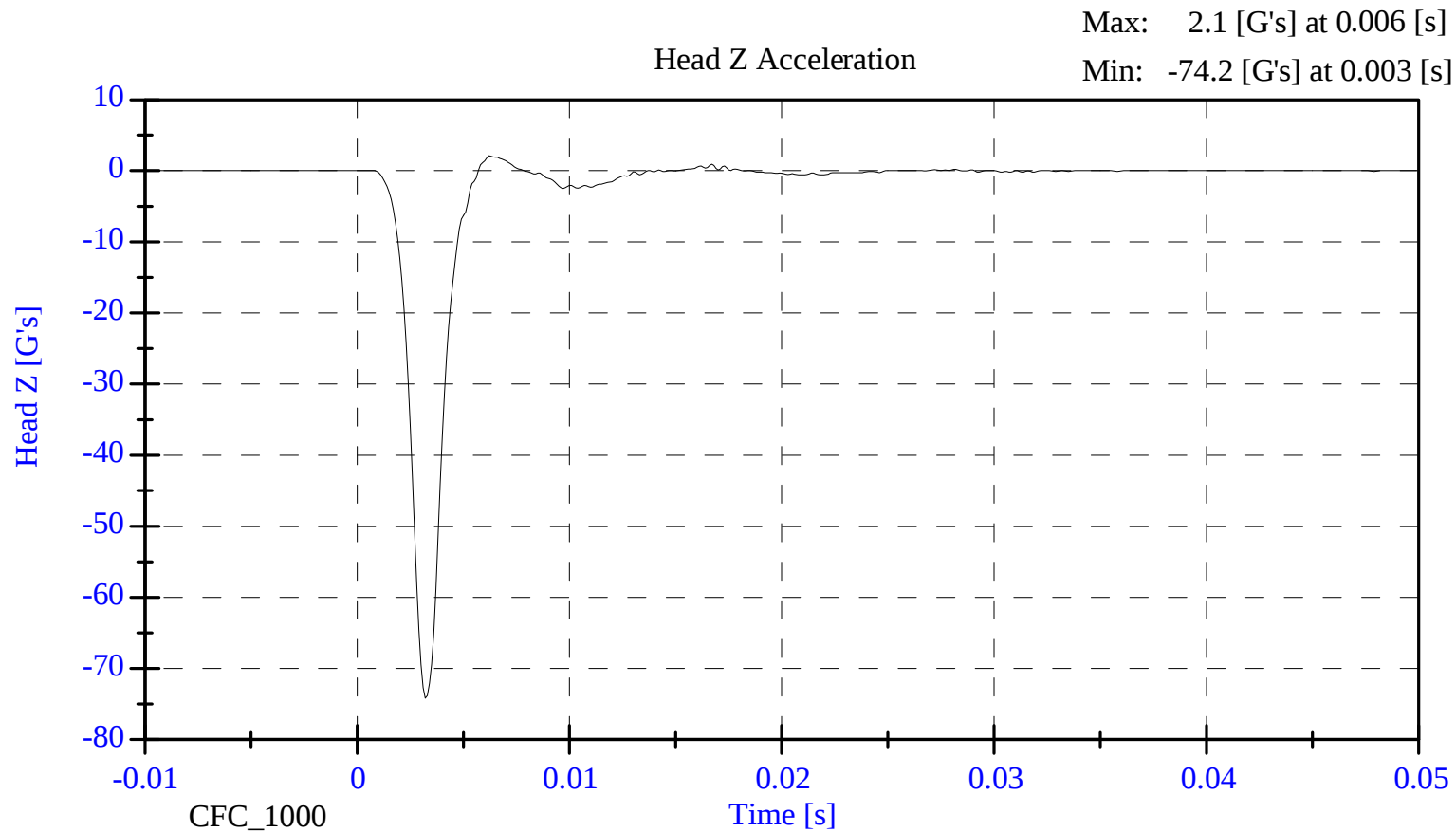
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	20.6 – 22.2	20.7
RELATIVE HUMIDITY (%)	10 – 70	35.00
PEAK RESULTANT ACCELERATION (Gs)	120 – 150	142.71
PEAK LATERAL ACCELERATION (Gs)	Not to Exceed 15	6.48
CURVE PERCENT NONMODAL (%)	< 15	5.17

REMARKS: None



015 - April 2, 2003

Head Drop



015 - April 2, 2003

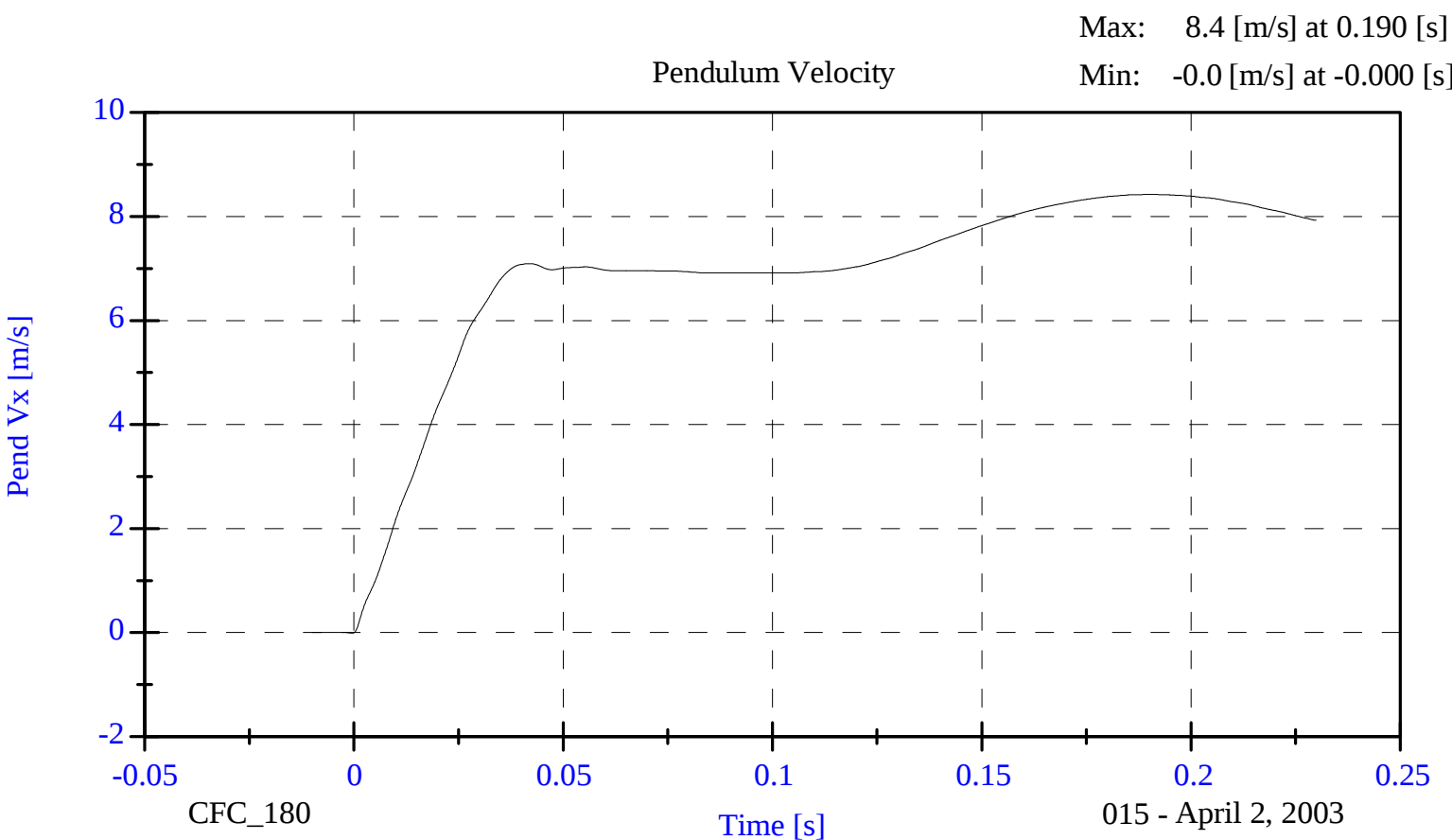
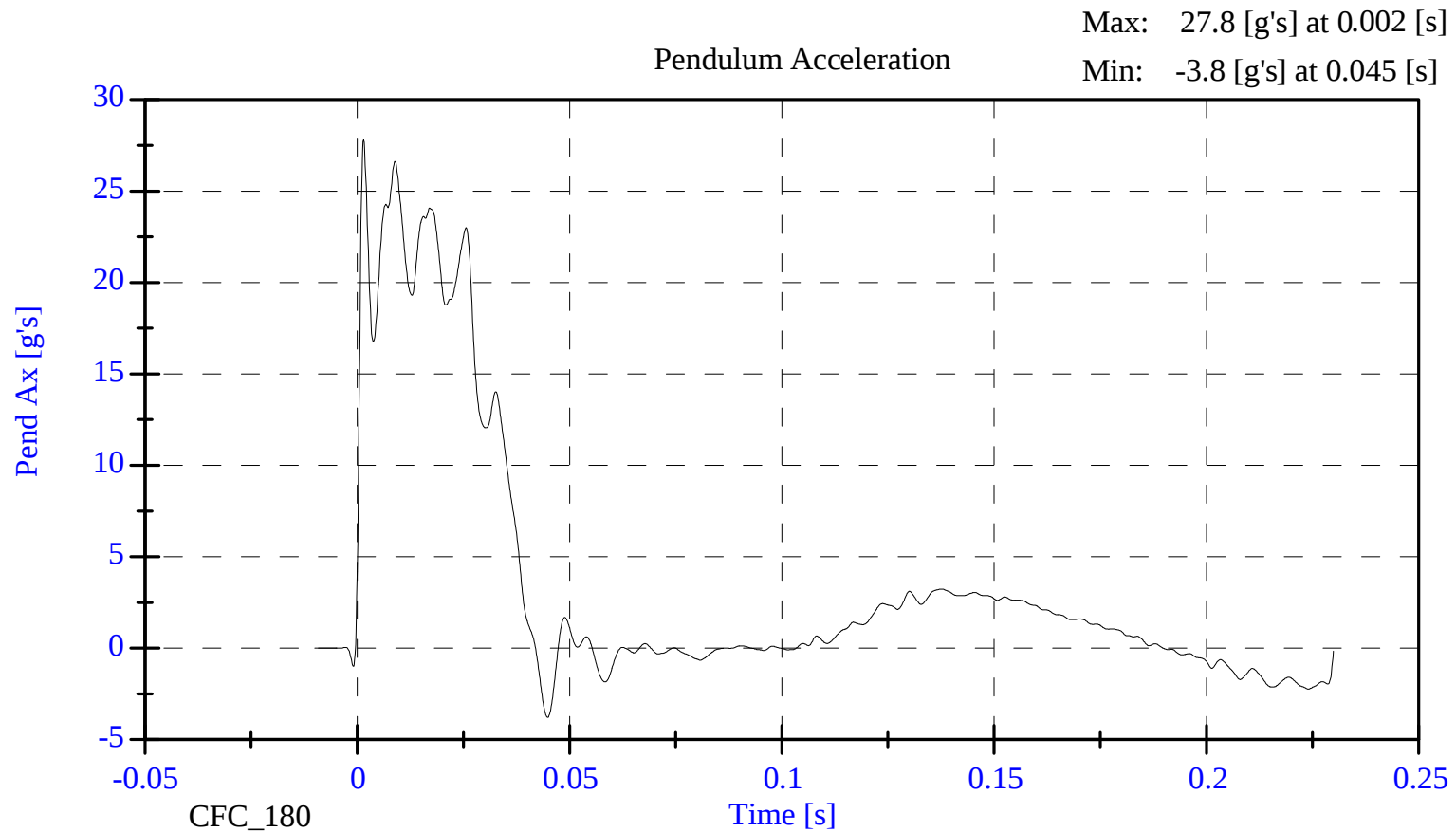
LATERAL NECK BENDING TEST
POST-TEST
(Test not required for SID certification)

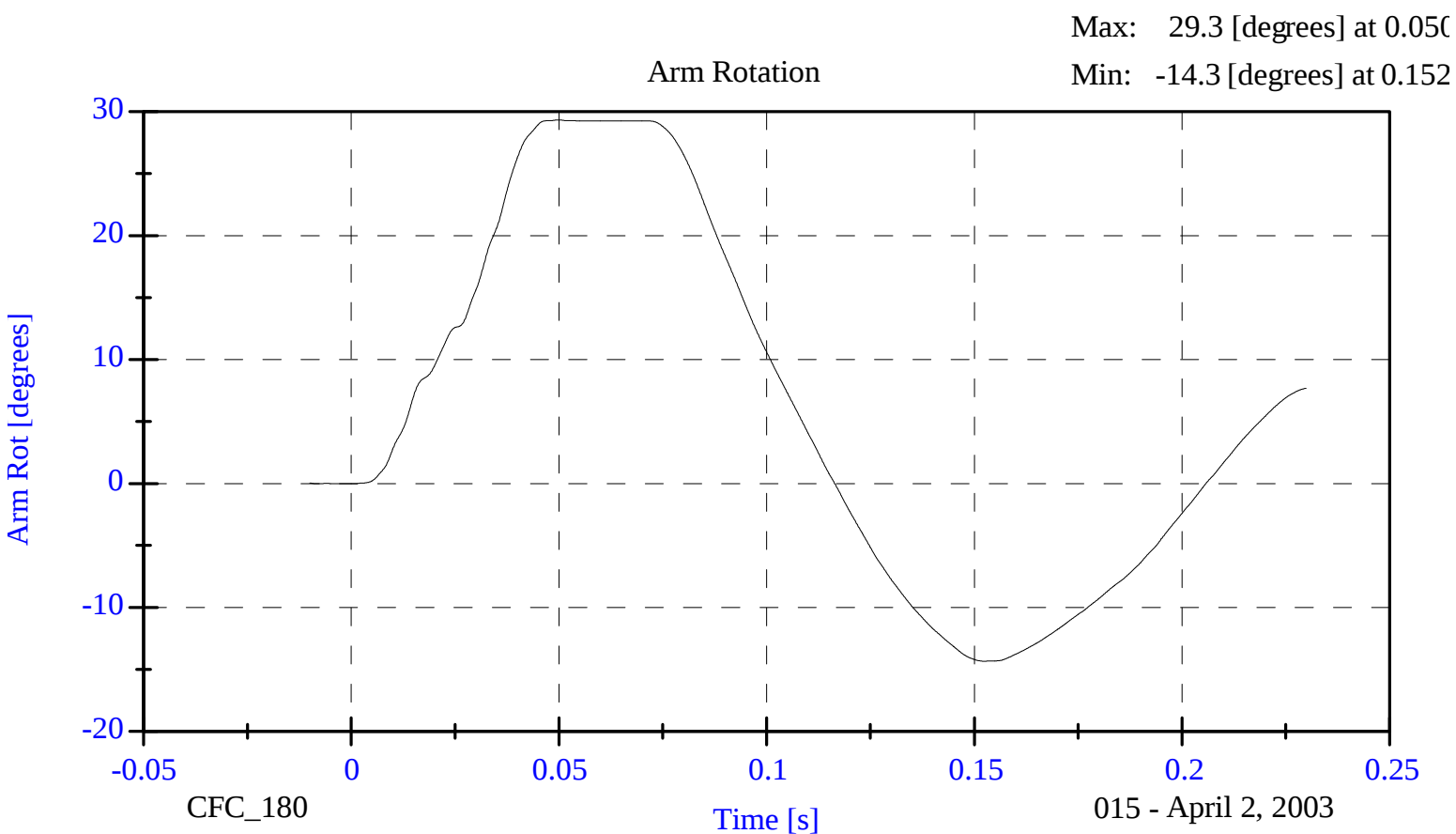
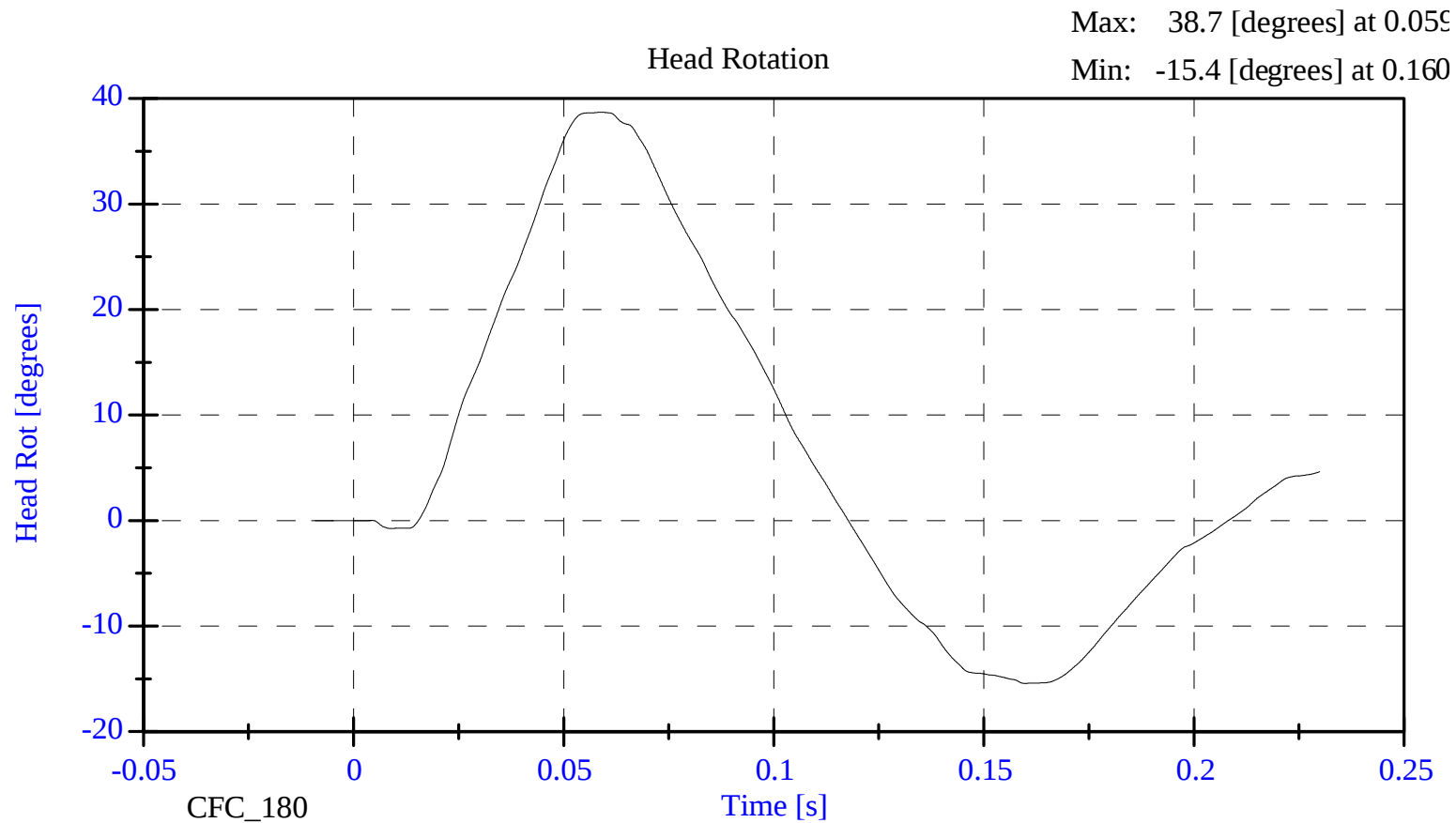
CONFIGURED FOR LEFT SIDE IMPACT

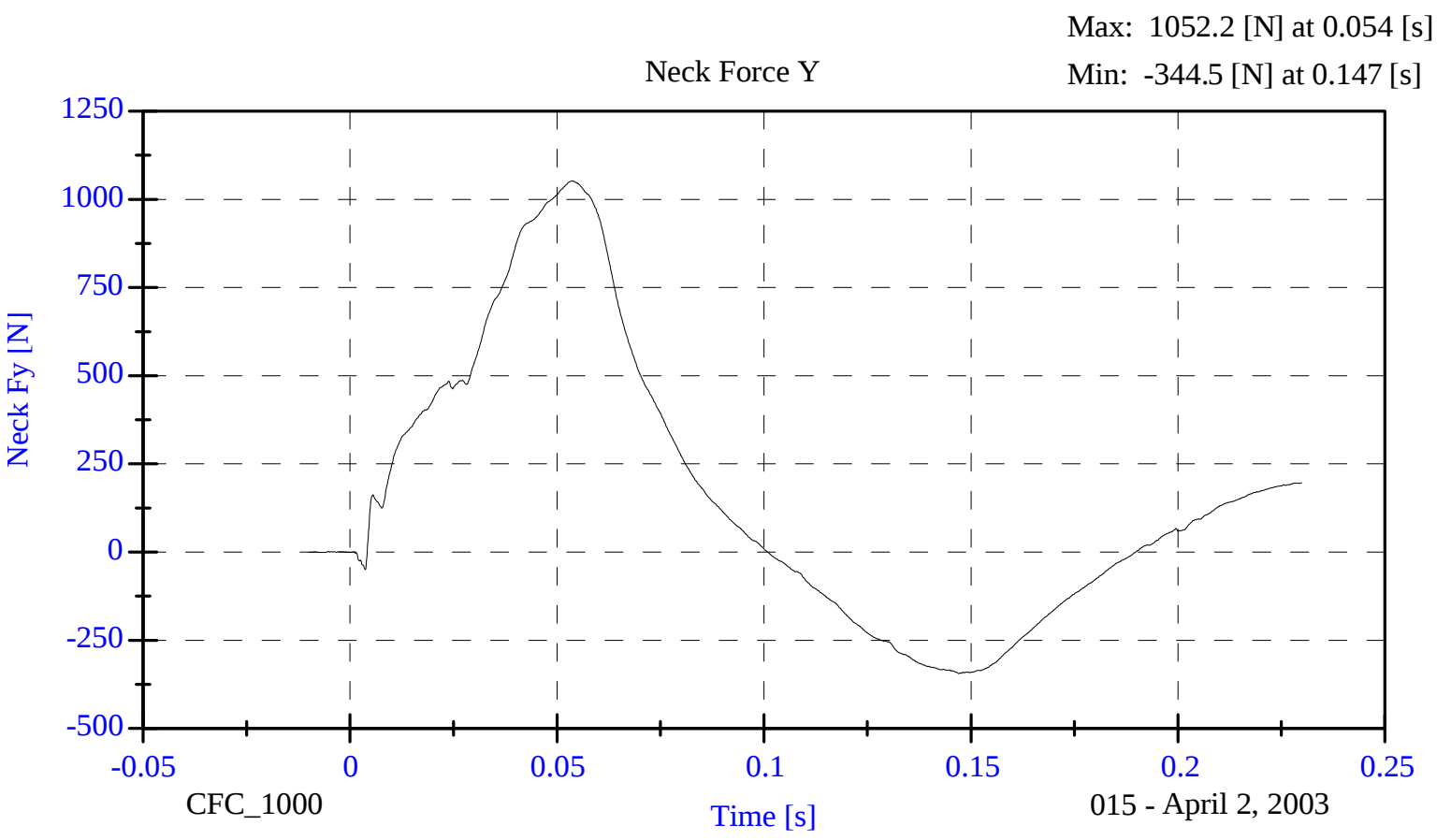
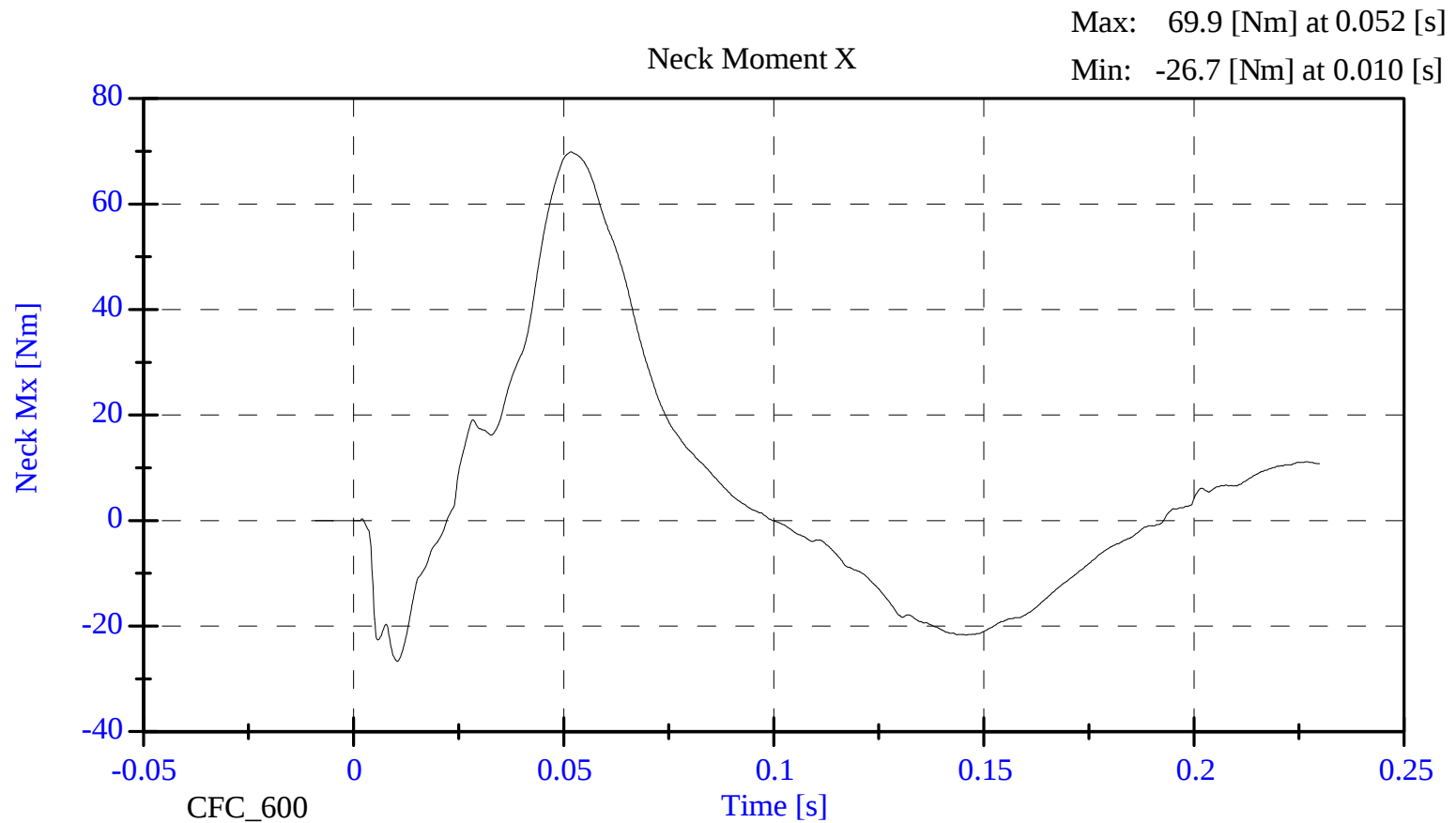
SID Serial No.: 015	Sequential Test Number: 4	
Date: April 2, 2004	Laboratory Technician: B. Swiecicki	

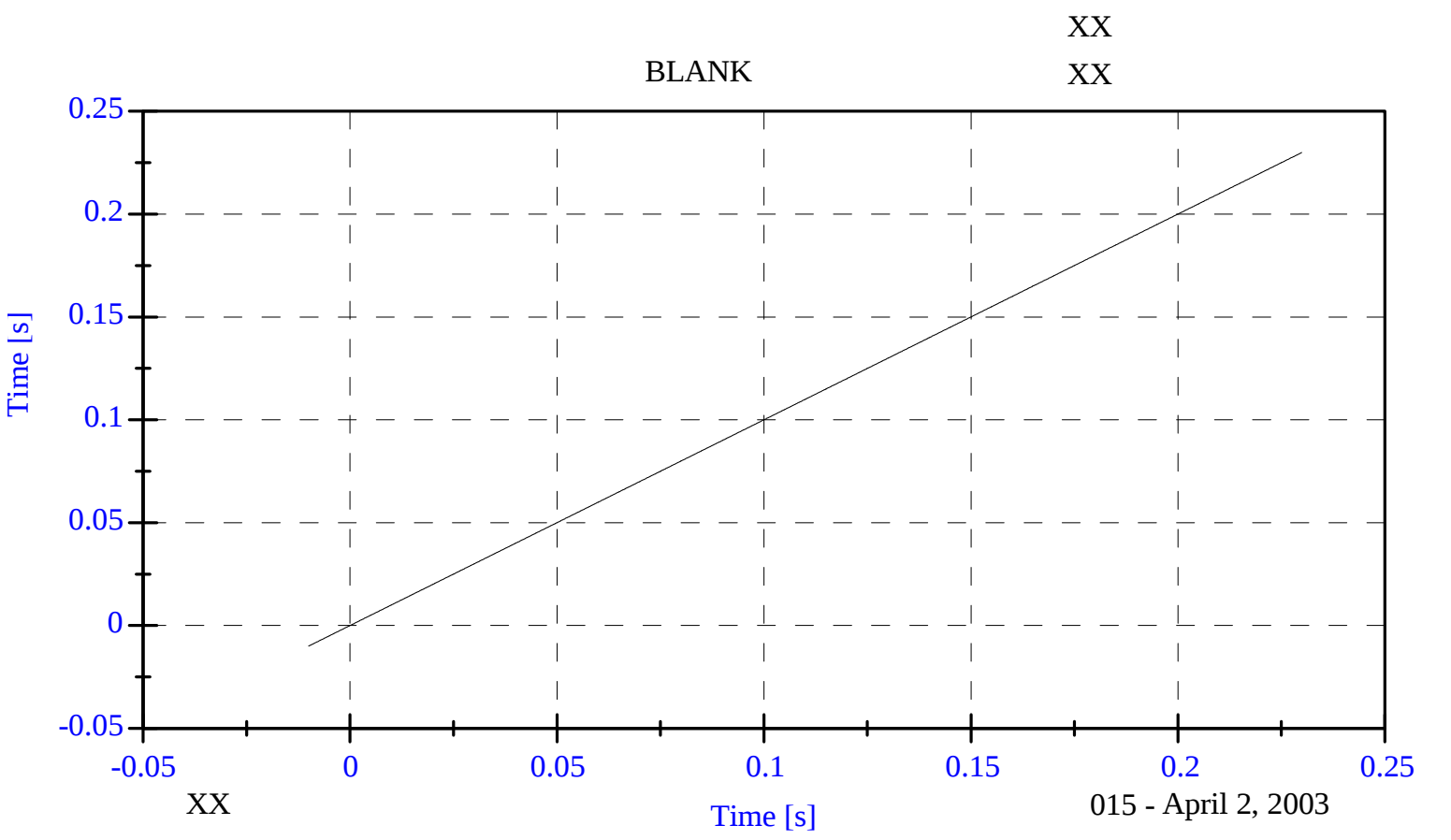
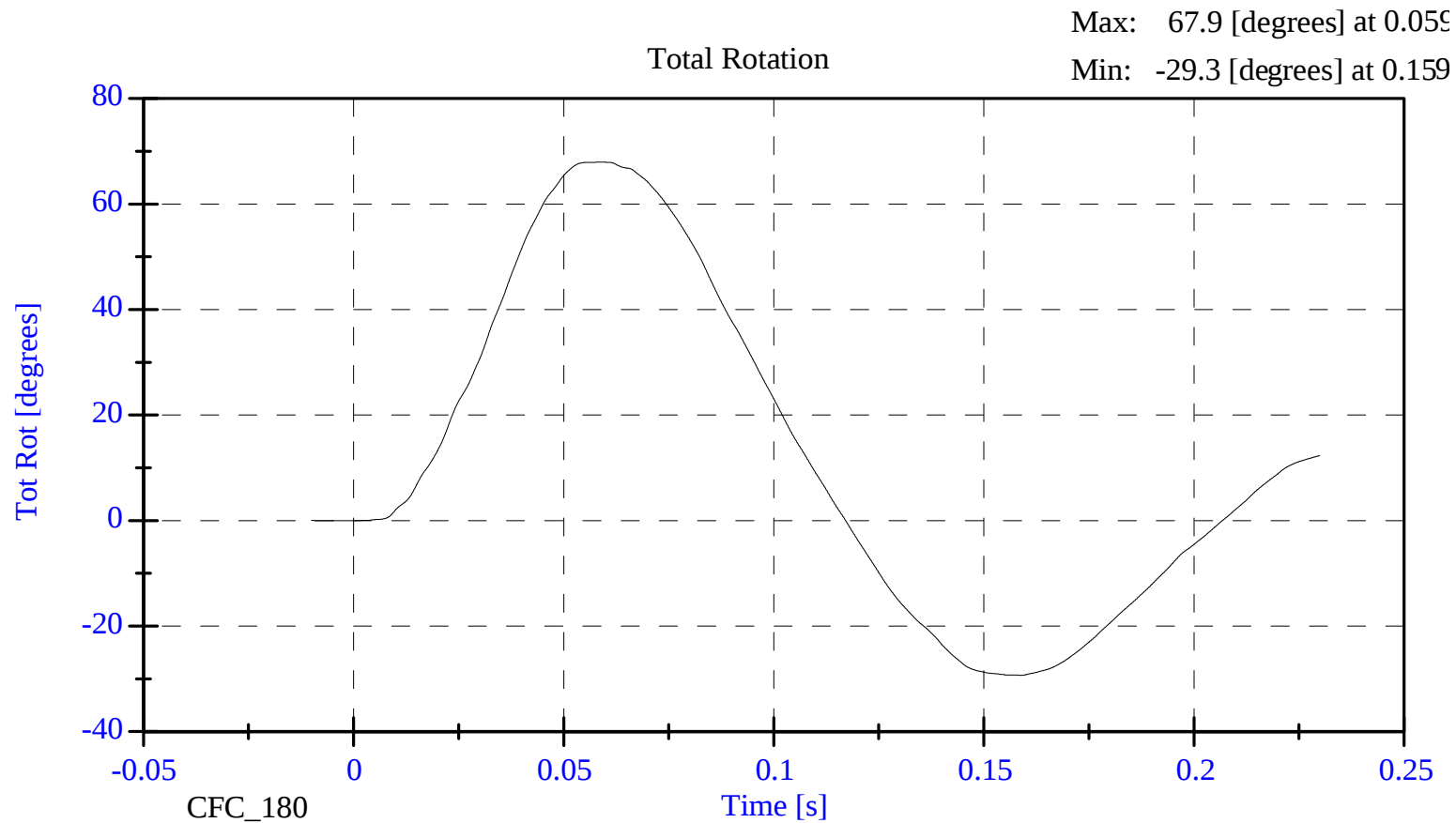
TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	20.6 - 22.2	20.7
RELATIVE HUMIDITY (%)	10 - 70	36.00
IMPACT VELOCITY (m/s)	6.89 – 7.13	7.02
PENDULUM DELTA V		
DELTA V @ 10 ms (m/s)	1.96 – 2.55	2.17
DELTA V @ 20 ms (m/s)	4.12 – 5.10	4.35
DELTA V @ 30 ms (m/s)	5.73 – 7.01	6.17
DELTA V @ 40-70 ms (m/s)	6.27 – 7.64	7.10
D PLANE ROTATION		
MAXIMUM ROTATION (deg)	64 – 78	67.94
ROT. ANGLE TIME to ZERO (ms)	50 – 70	58.20
MOMENT ABOUT THE OCCIPITAL CONDYLE		
MAX OCCIPITAL MOMENT (Nm)	88 – 108	88.34
OCCIPITAL MOMENT DECAY (ms)	40.0 – 60.0	48.50
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT		
ROTATION wrt MOMENT (ms)	0 – 20	7.10

REMARKS: None









**ABDOMINAL COMPRESSION TEST
POST TEST**

(Test not required for SID certification)

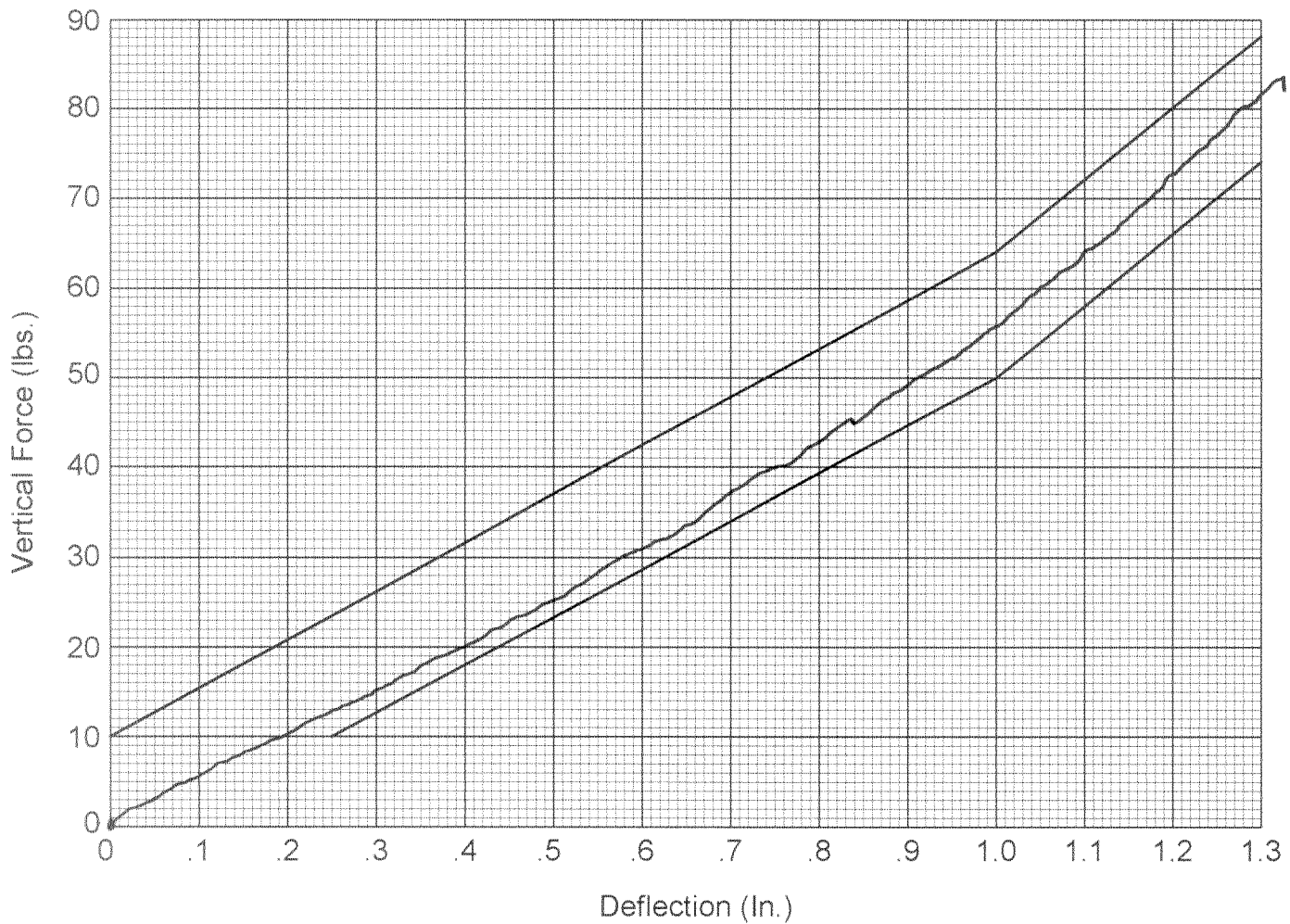
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	20.7
RELATIVE HUMIDITY (%)	10 - 70	31.00
FORCE @ 13 mm (N)	104 - 162	115.7
FORCE @ 19 mm (N)	163 - 221	177.9
FORCE @ 25 mm (N)	222 - 280	249.1
FORCE @ 33 mm (N)	325 - 391	364.8

REMARKS: None

Dummy S/N 015
W/A _____
Date 4-4-03
Performed By [Signature]
Temp. 70°
Humidity 31%



Hybrid II
Abdomen Static Press

LUMBAR FLEXION TEST
POST TEST
(Test not required for SID certification)

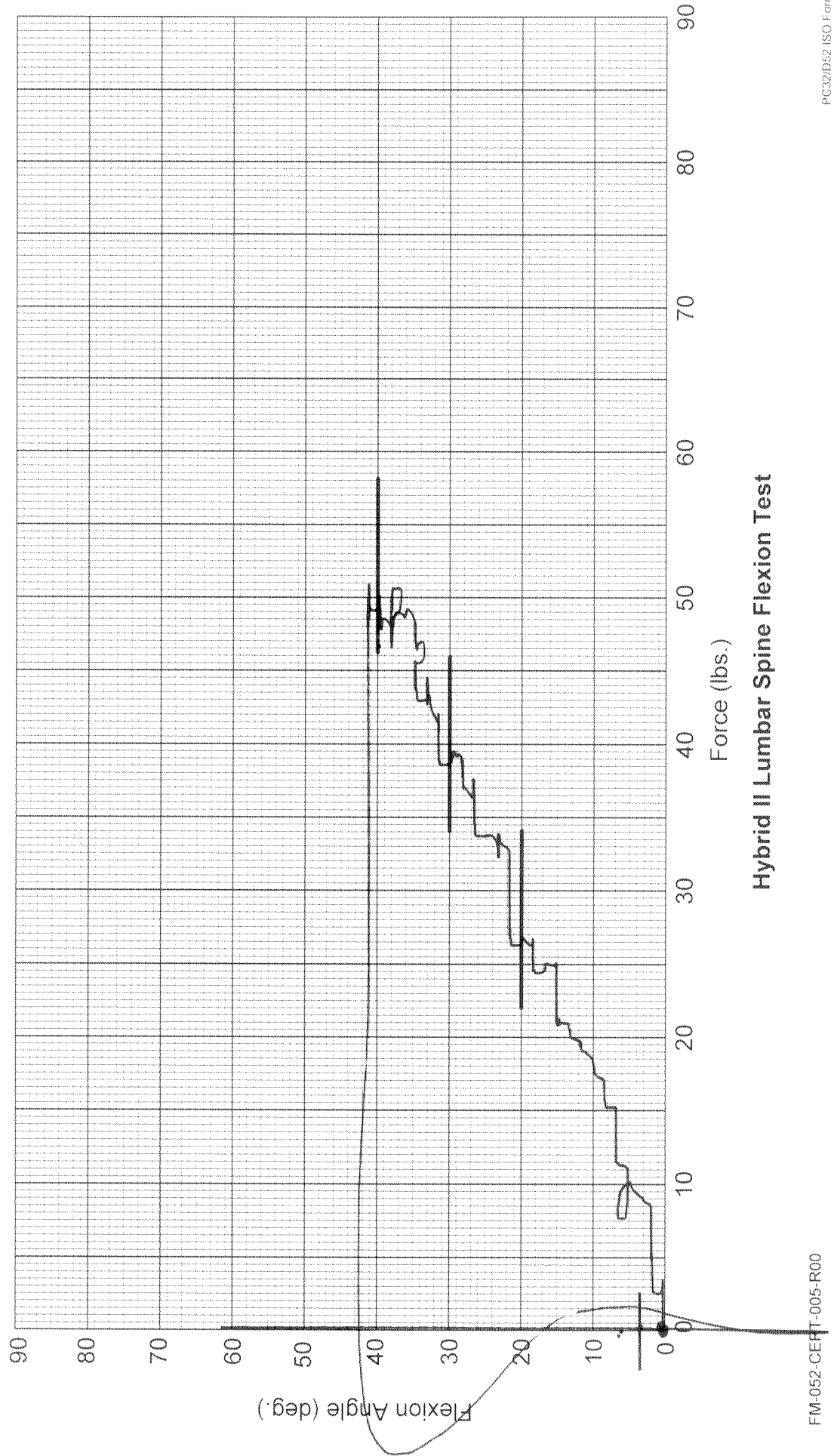
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	20.7
RELATIVE HUMIDITY (%)	10 - 70	31.0
FORCE @ 0° (N)	0 - 26.7	0.0
FORCE @ 20° (N)	97.8 - 151.2	117.9
FORCE @ 30° (N)	151.2 - 204.6	171.3
FORCE @ 40° (N)	204.6 - 258	219.1
RETURN ANGLE	12° max.	4.5°

REMARKS: None

Dummy S/N 015
W/A _____
Date 4-4-03
Performed By [Signature]
Temp. 70°
Humidity 31%



Hybrid II Lumbar Spine Flexion Test

POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 015 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

CALIBRATION TEST RESULTS

POST TEST

SID H3 NO.: 016

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST	COMMENTS
EXTERNAL DIMENSIONS	Passed all requirements.
LATERAL THORAX IMPACT TEST	Passed all requirements.
LATERAL PELVIS IMPACT TEST	Passed all requirements.
HEAD DROP TEST*	Passed all requirements.
LATERAL NECK BEND TEST*	Passed all requirements.
ABDOMINAL COMPRESSION TEST*	Passed all requirements.
LUMBAR FLEXION TEST*	Passed all requirements.

* Test not required for SID certification.

REMARKS: None

**EXTERNAL DIMENSIONS
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	239
KH- Knee Pivot from Back Line (mm)	511 - 526	521
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	371

REMARKS: None

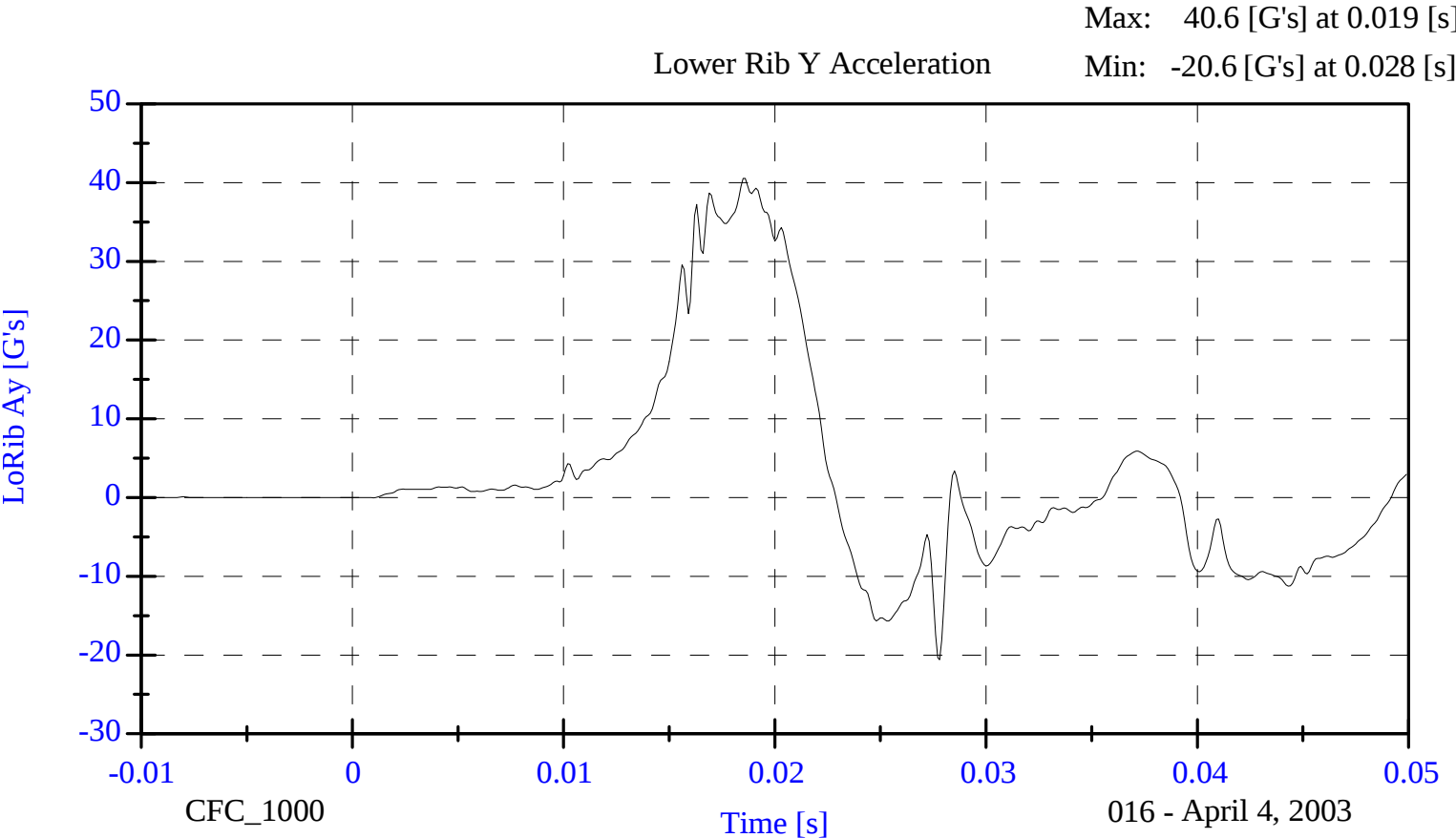
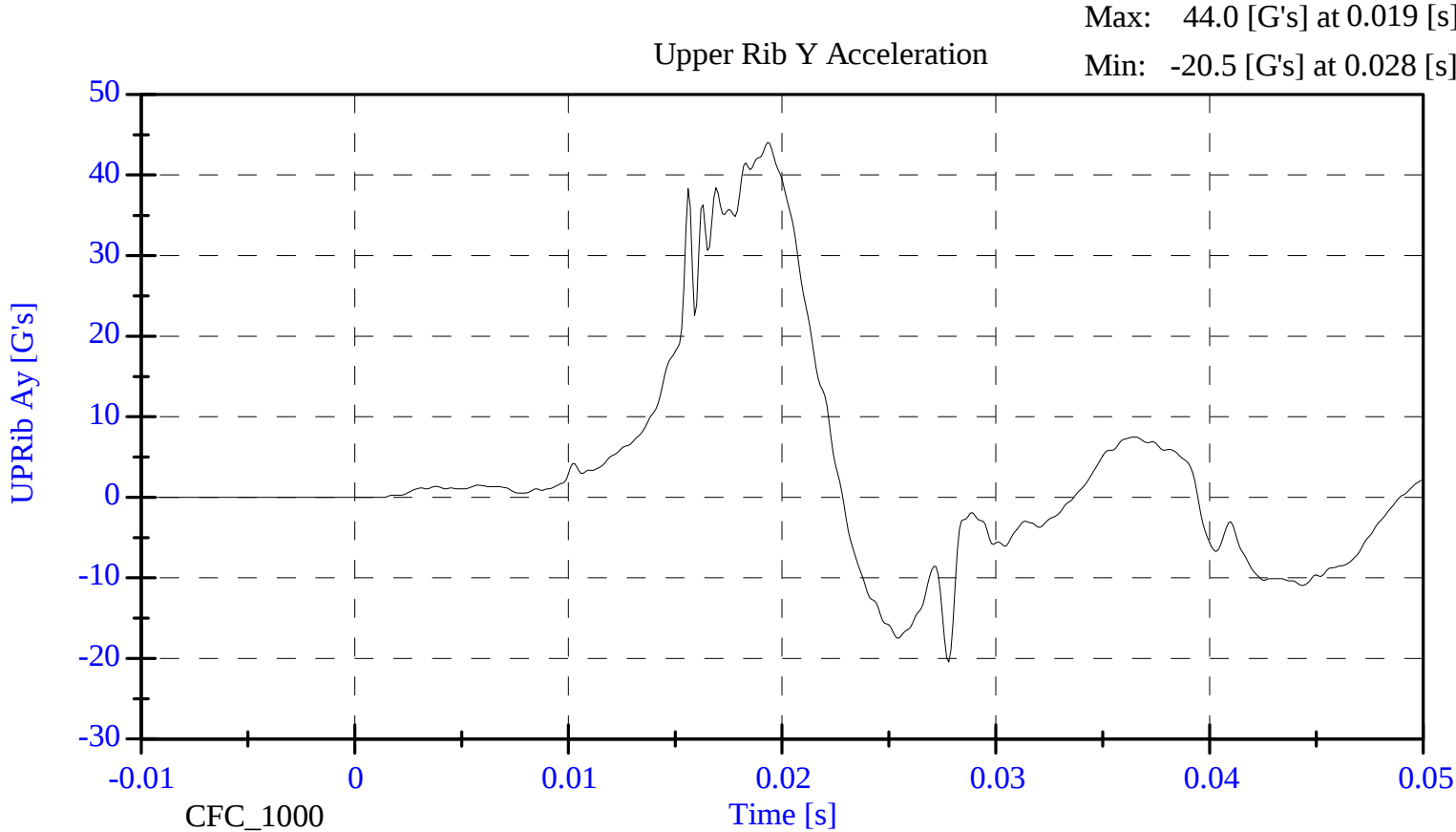
**LATERAL THORAX IMPACT TEST
POST TEST**

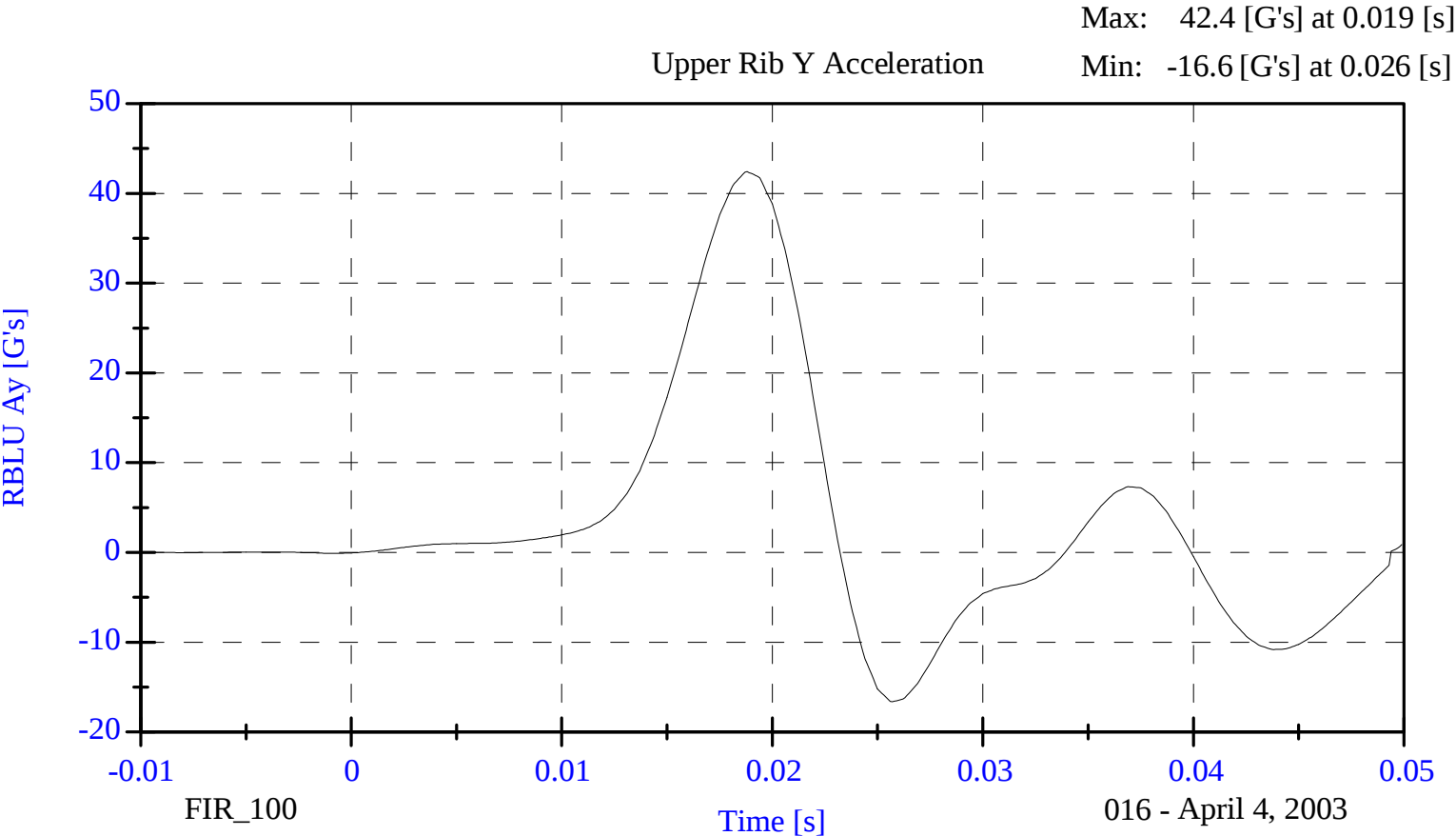
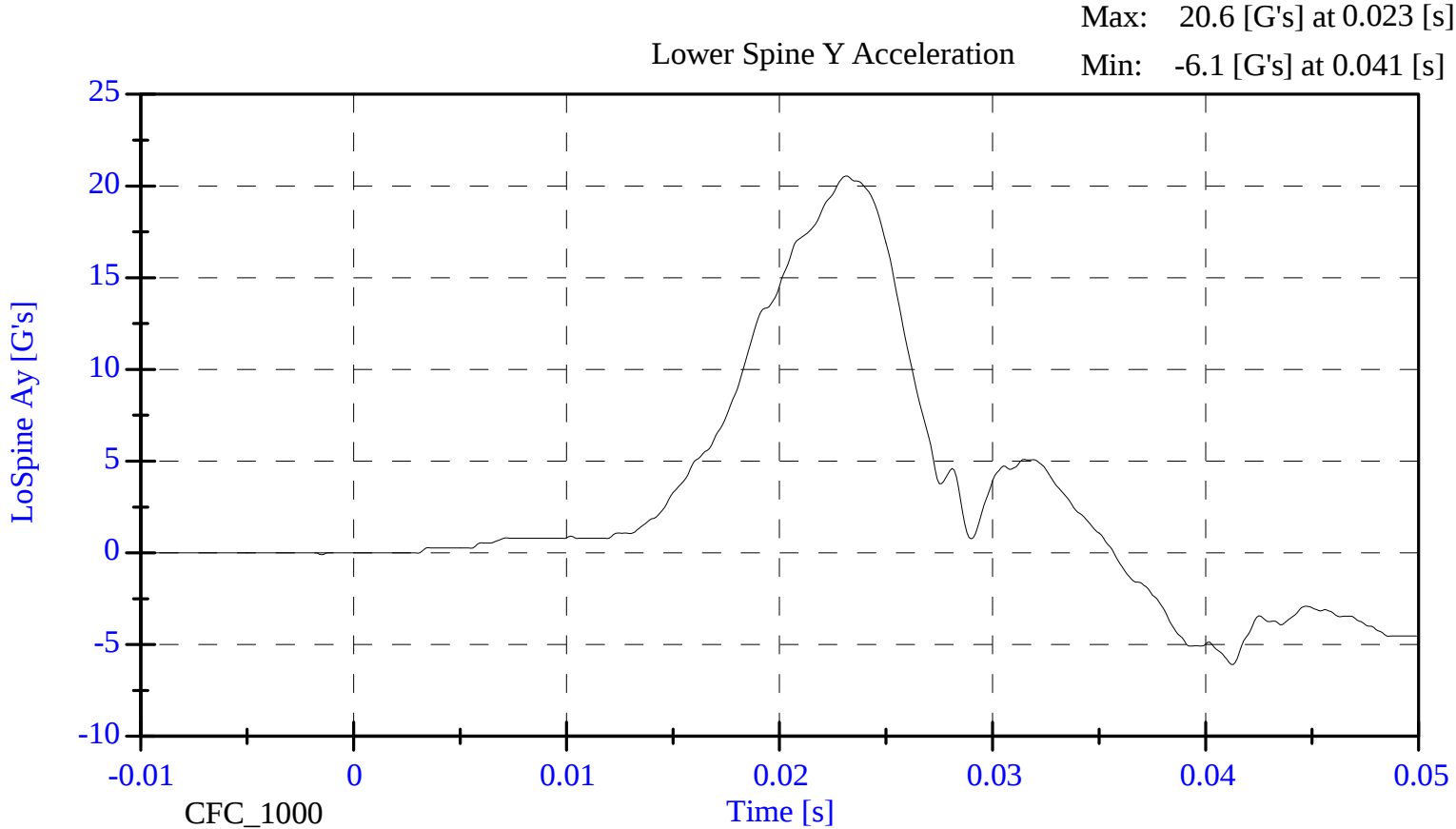
CONFIGURED FOR LEFT SIDE IMPACT

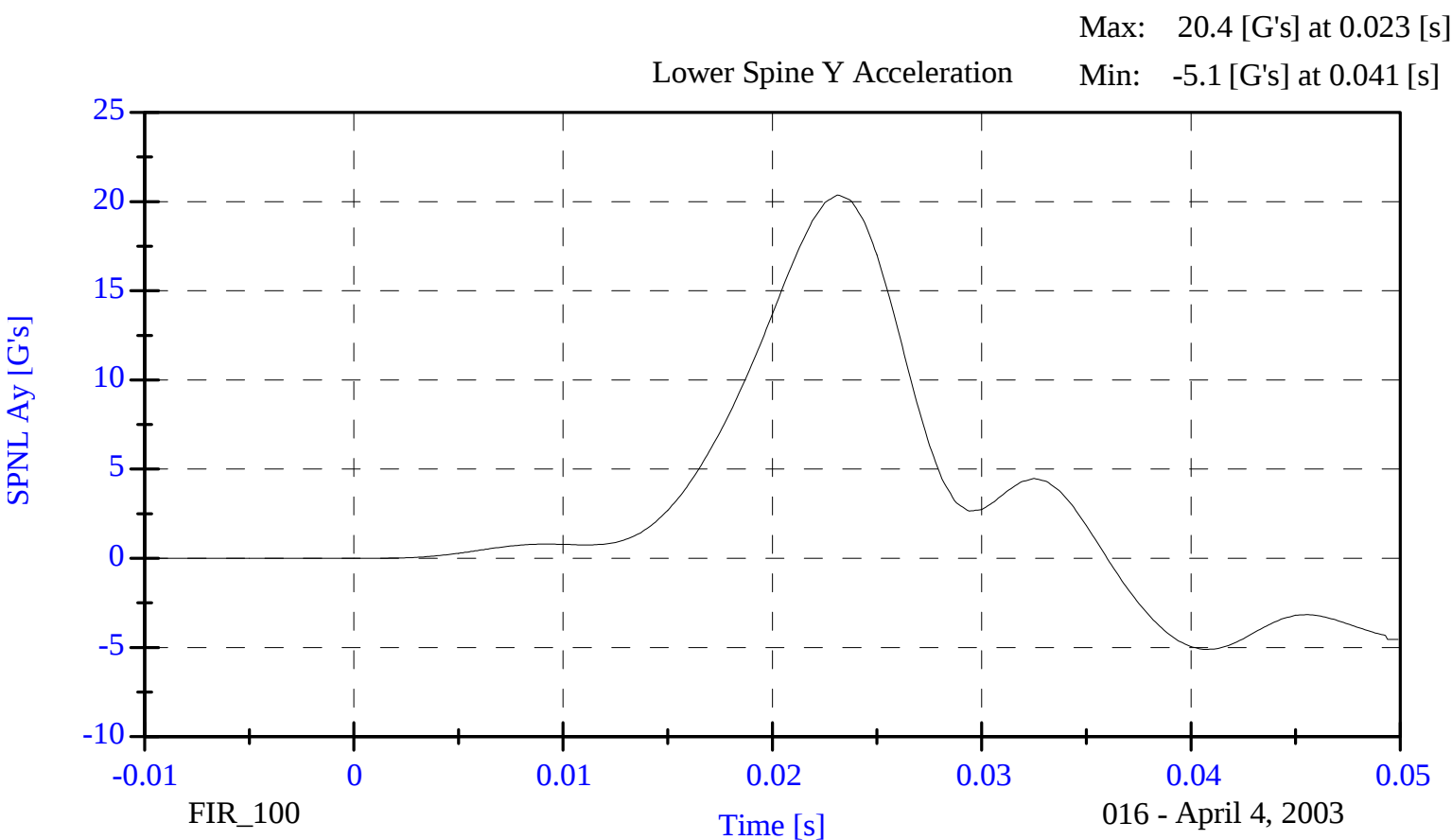
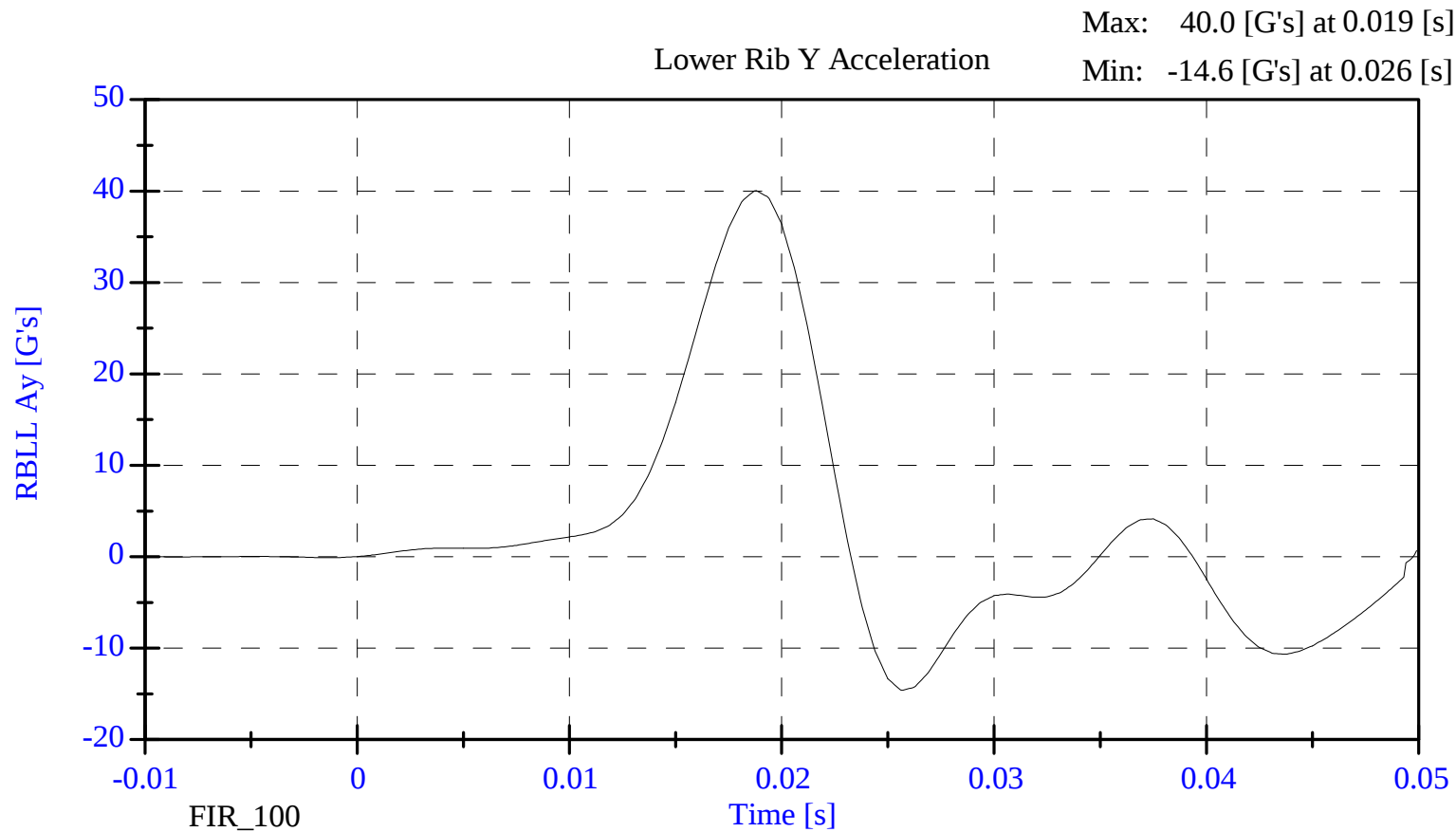
SID H3 Serial No.: 016 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	31.00
PROBE SPEED (m/s)	4.27 - 4.33	4.27
UPPER RIB (g's)	37 - 46	42.43
LOWER RIB (g's)	37 - 46	40.05
LOWER SPINE (g's)	15 - 22	20.37

REMARKS: None







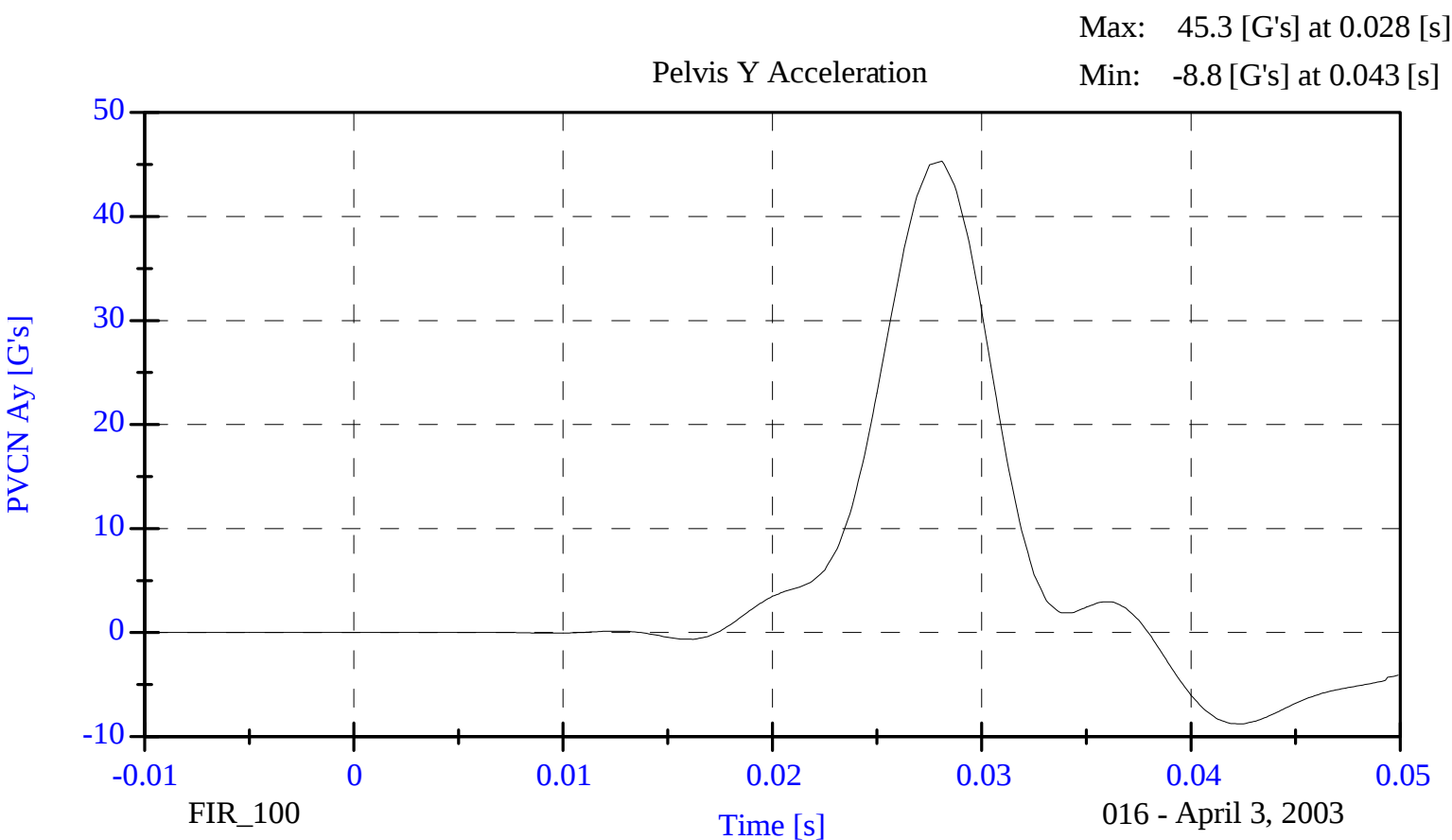
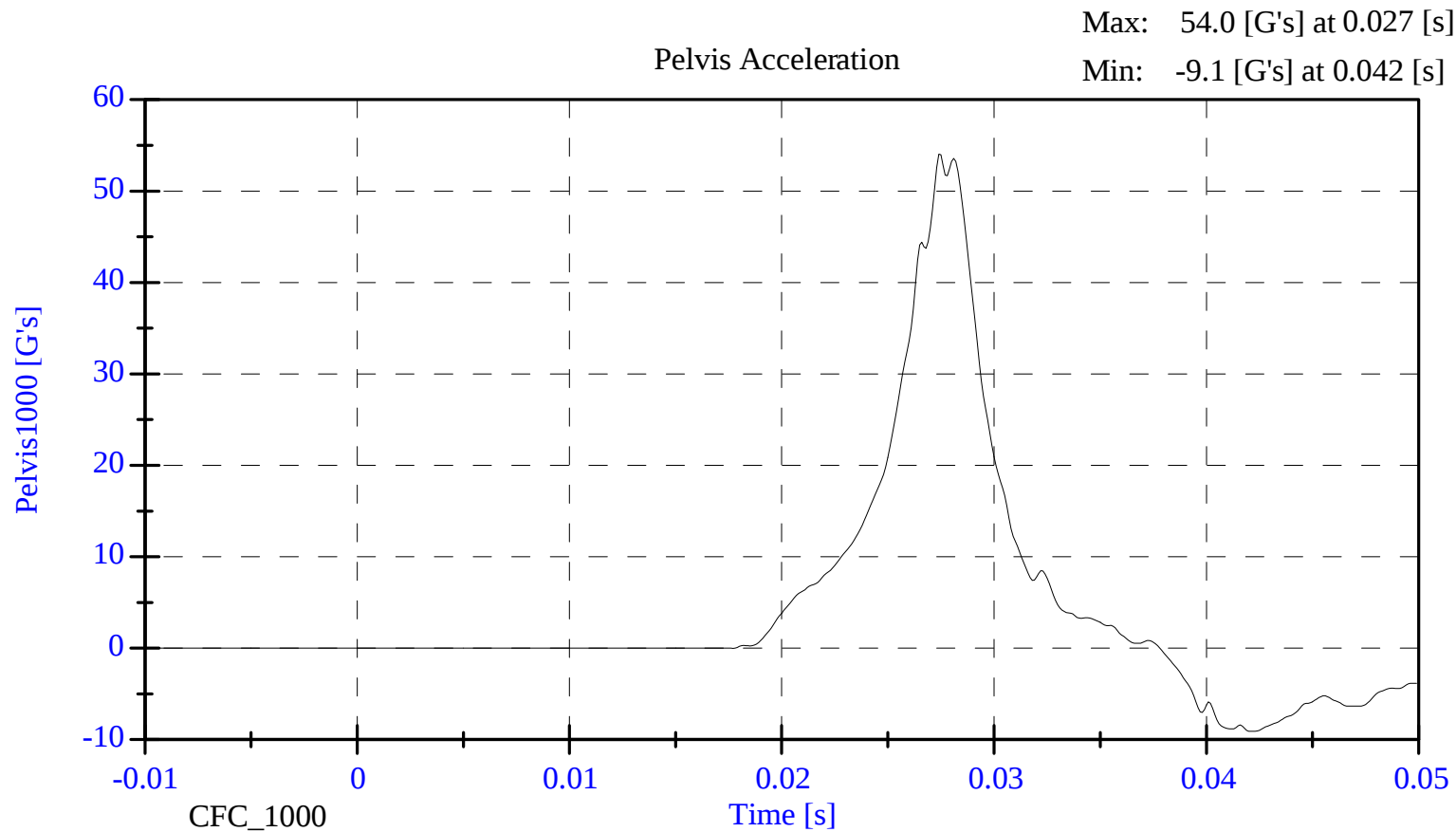
**LATERAL PELVIS IMPACT TEST
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	34.0
PROBE SPEED (m/s)	4.27 - 4.33	4.27
PELVIS ACCELERATION (g's)	40 - 60	45.33

REMARKS: None



016 - April 3, 2003

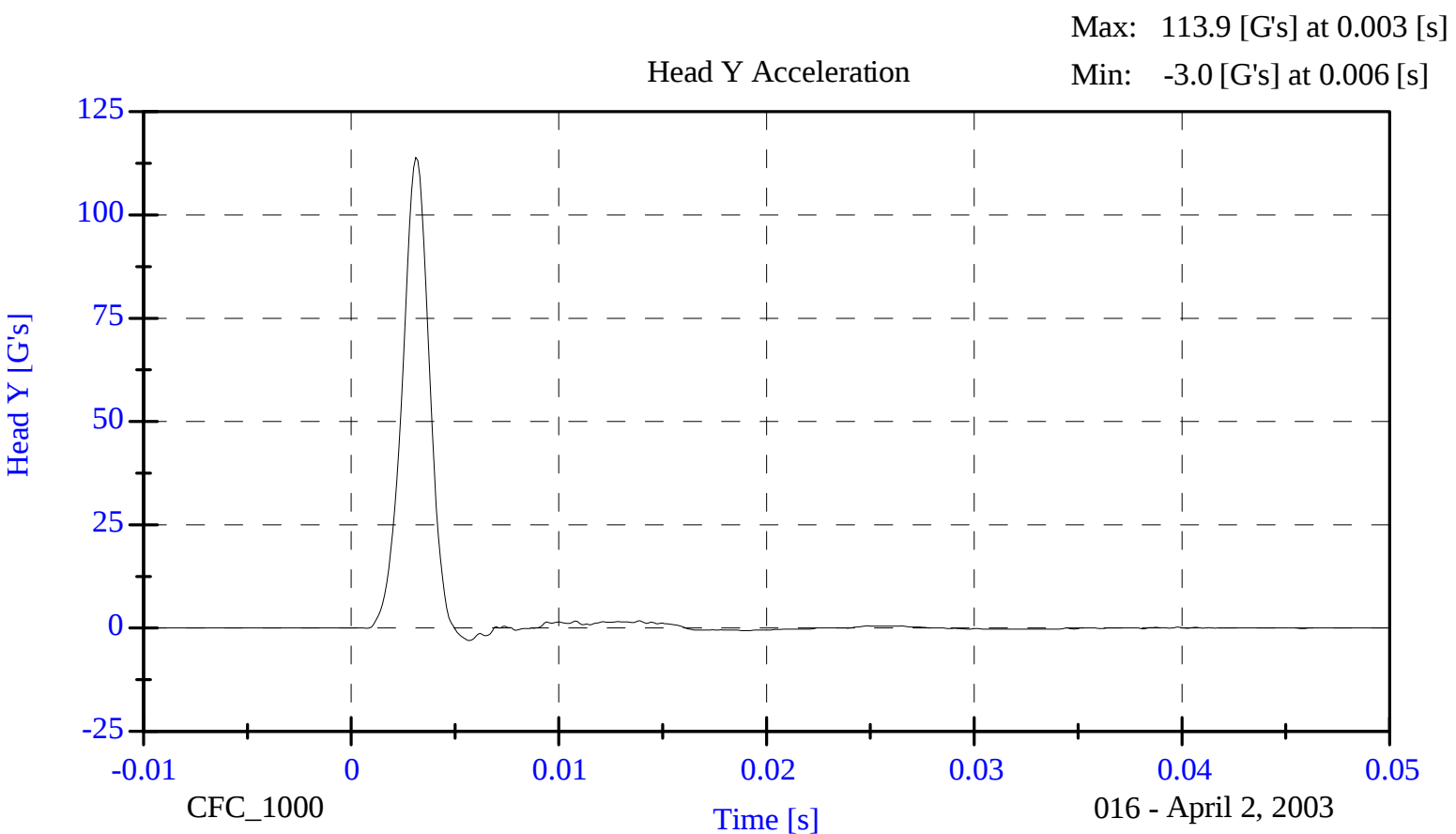
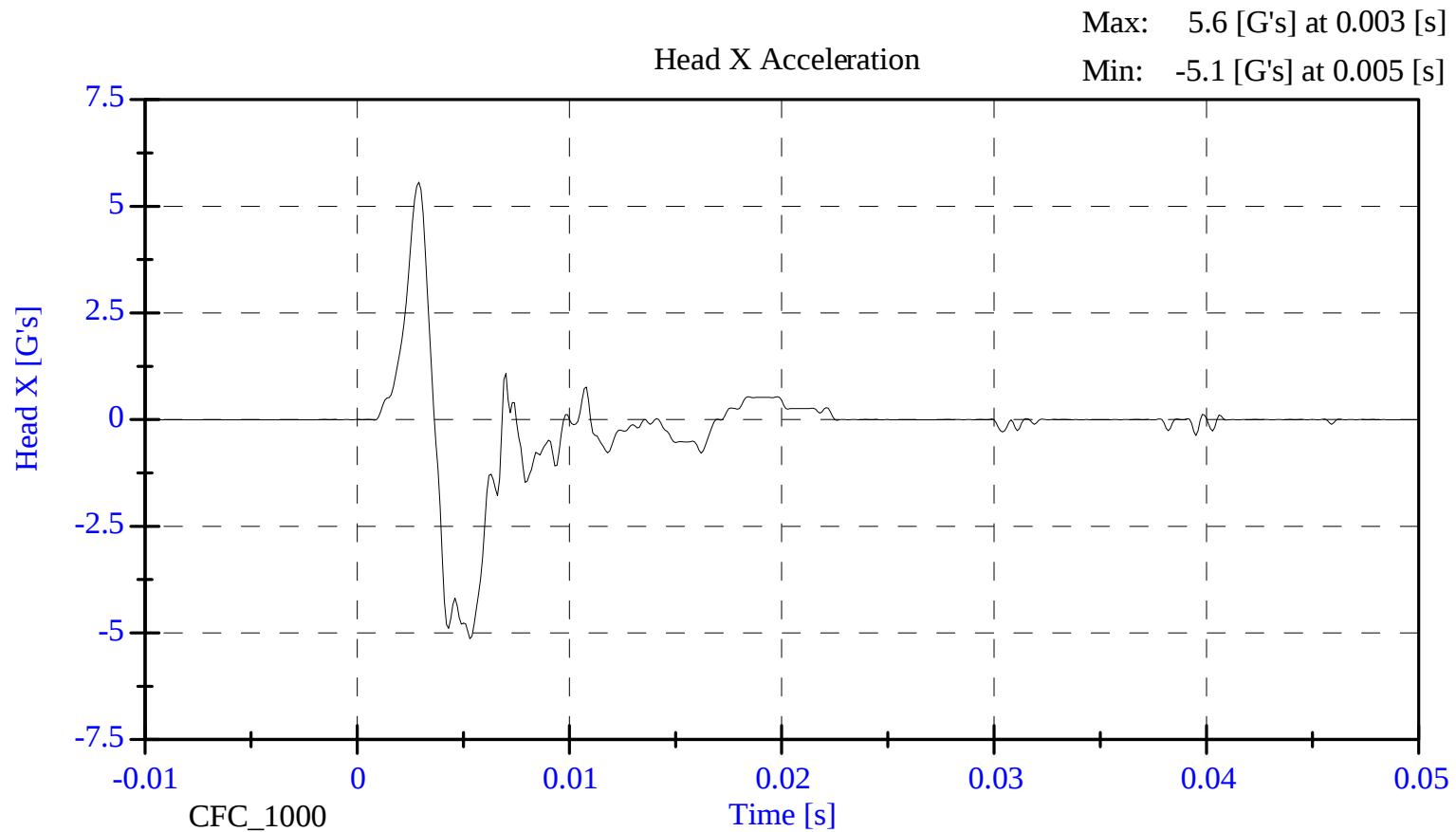
HEAD DROP TEST
POST-TEST
(Test not required for SID certification)

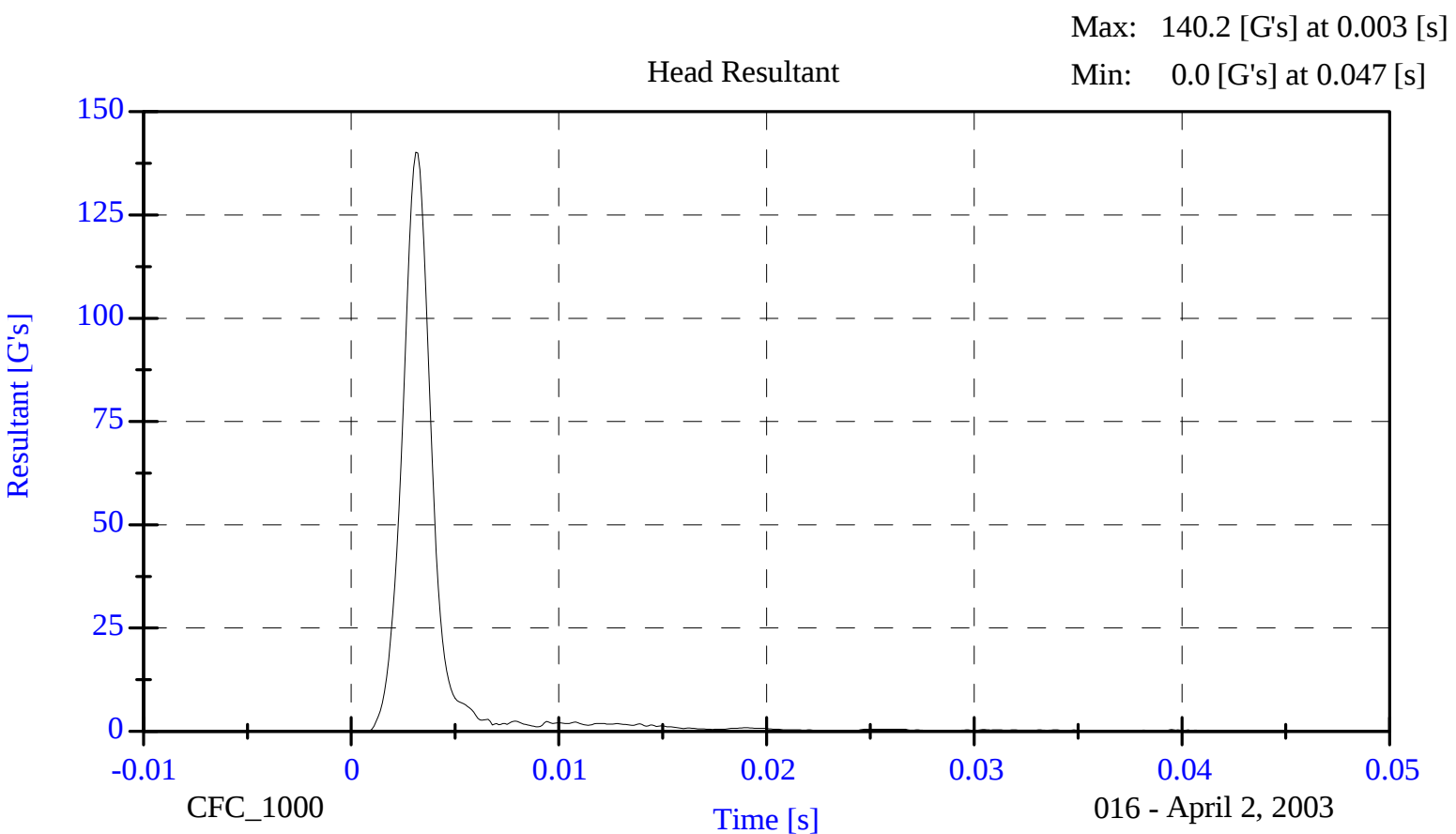
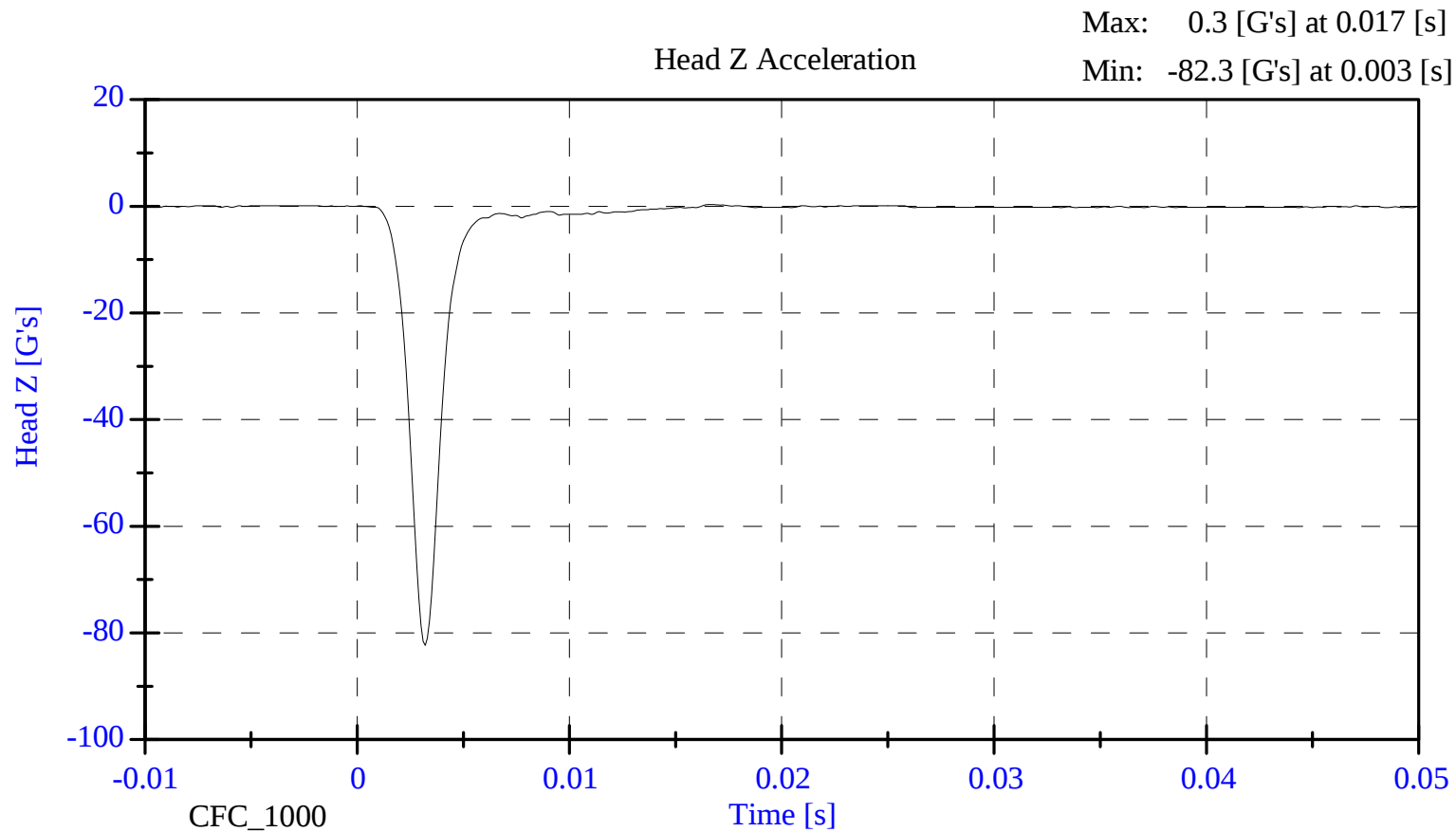
CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	20.6 – 22.2	20.7
RELATIVE HUMIDITY (%)	10 – 70	35.00
PEAK RESULTANT ACCELERATION (Gs)	120 – 150	140.21
PEAK LATERAL ACCELERATION (Gs)	Not to Exceed 15	5.56
CURVE PERCENT NONMODAL (%)	< 15	2.05

REMARKS: None





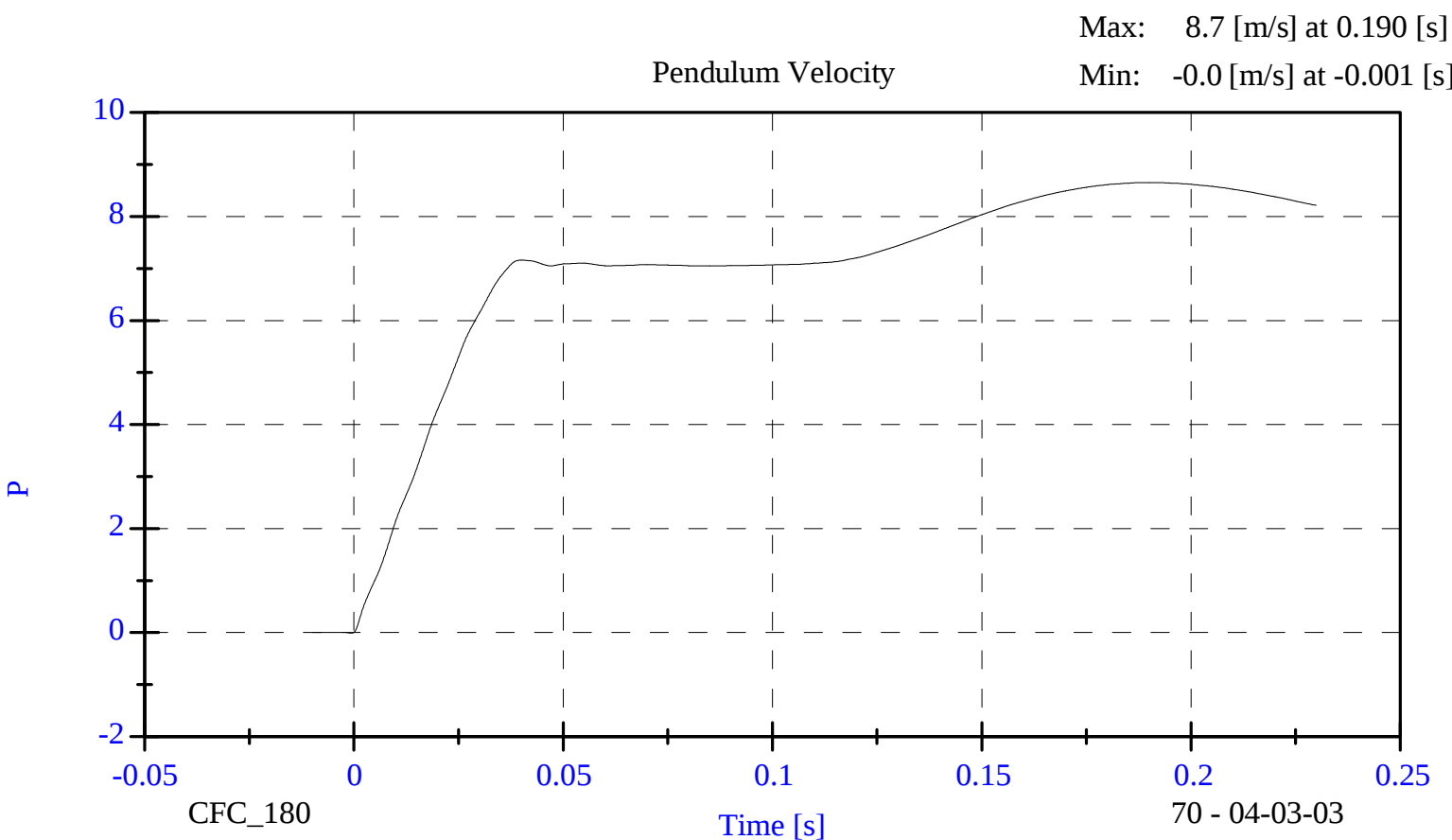
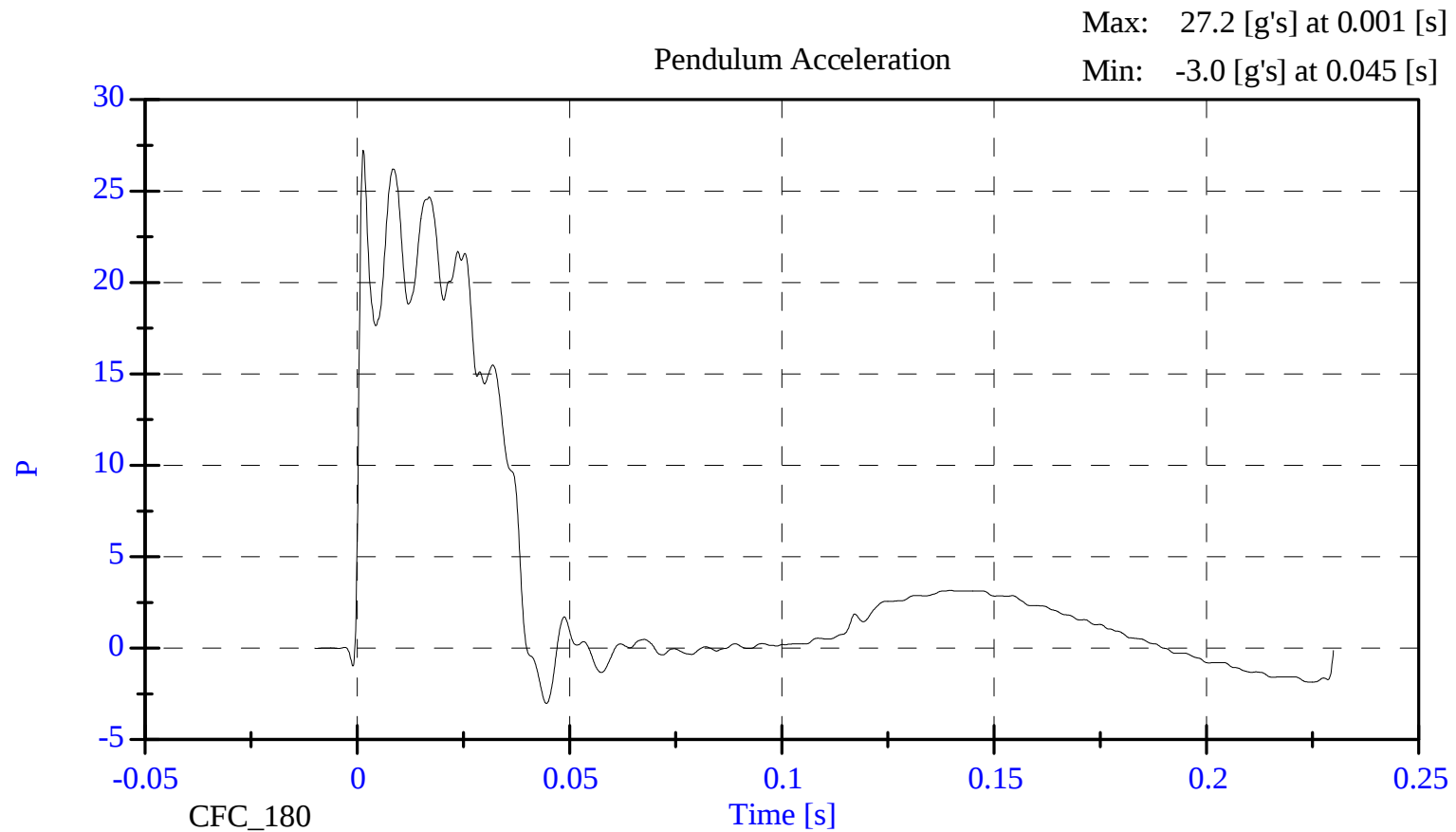
LATERAL NECK BENDING TEST
POST-TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

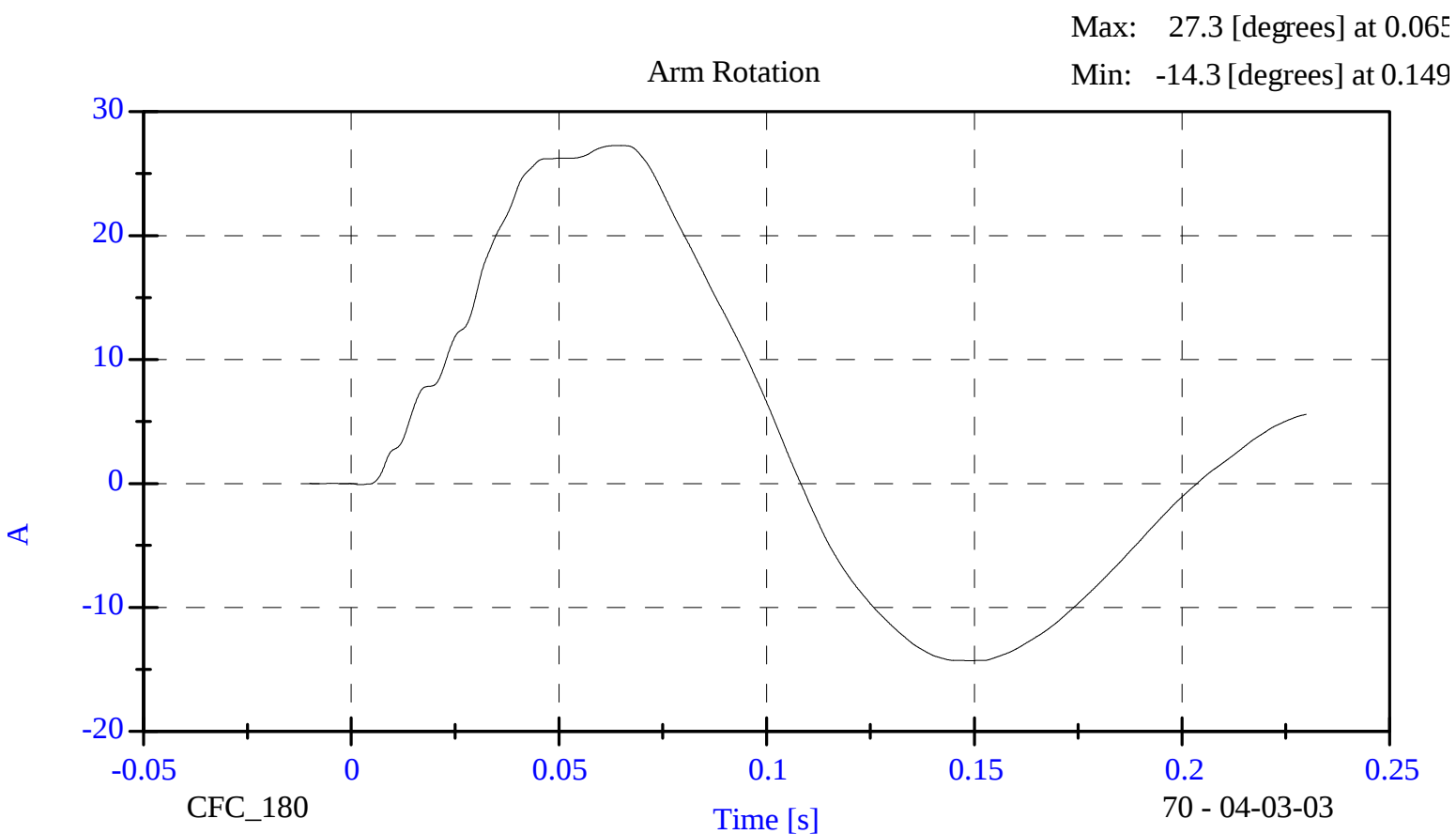
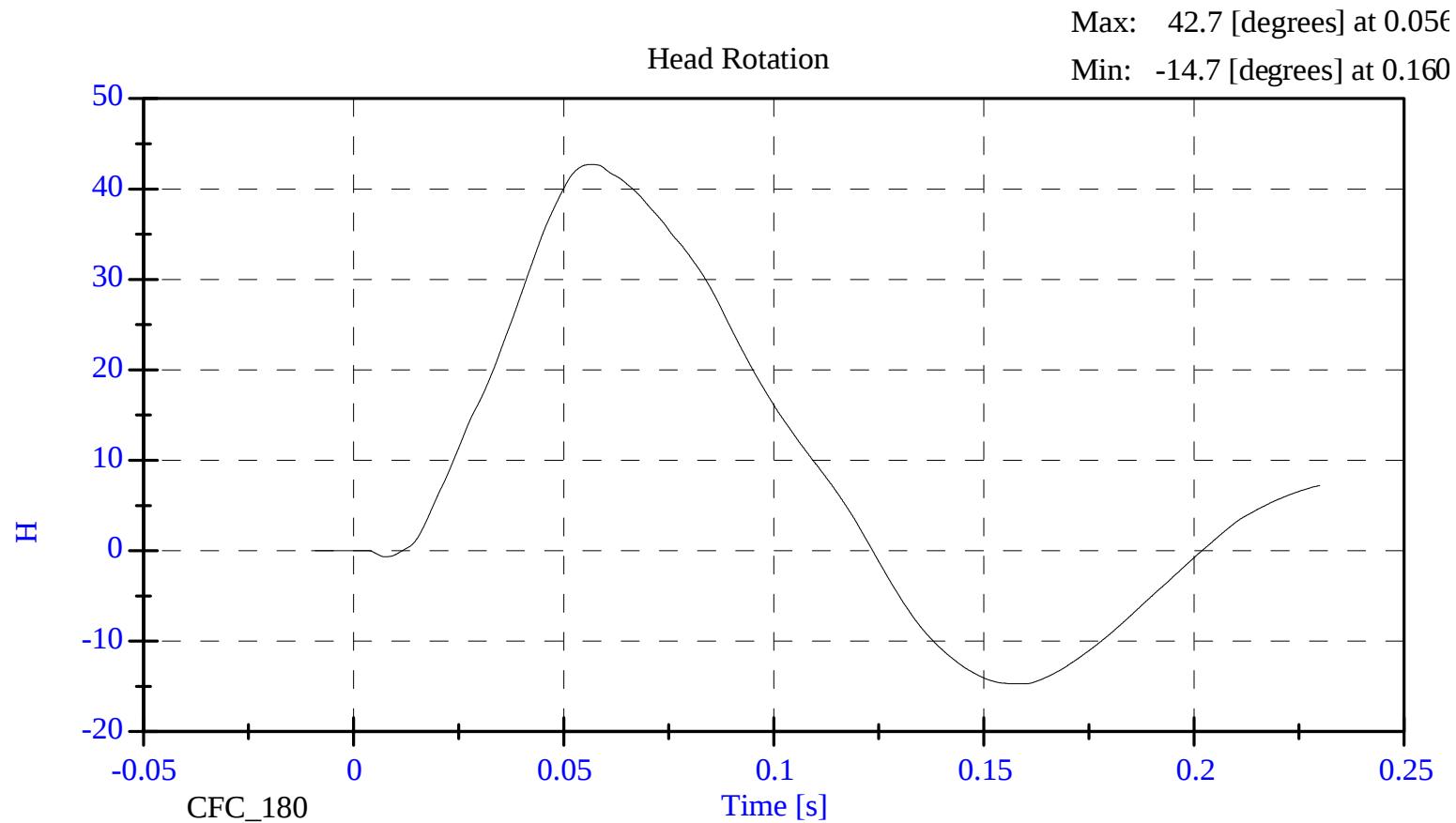
SID Serial No.: 016	Sequential Test Number: 4	
Date: April 4, 2004	Laboratory Technician: B. Swiecicki	

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	20.6 - 22.2	20.7
RELATIVE HUMIDITY (%)	10 - 70	34.00
IMPACT VELOCITY (m/s)	6.89 – 7.13	7.01
PENDULUM DELTA V		
DELTA V @ 10 ms (m/s)	1.96 – 2.55	2.15
DELTA V @ 20 ms (m/s)	4.12 – 5.10	4.29
DELTA V @ 30 ms (m/s)	5.73 – 7.01	6.15
DELTA V @ 40-70 ms (m/s)	6.27 – 7.64	7.20
D PLANE ROTATION		
MAXIMUM ROTATION (deg)	64 – 78	69.48
ROT. ANGLE TIME to ZERO (ms)	50 – 70	57.60
MOMENT ABOUT THE OCCIPITAL CONDYLE		
MAX OCCIPITAL MOMENT (Nm)	88 – 108	88.49
OCCIPITAL MOMENT DECAY (ms)	40.0 – 60.0	47.50
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT		
ROTATION wrt MOMENT (ms)	0 – 20	7.90

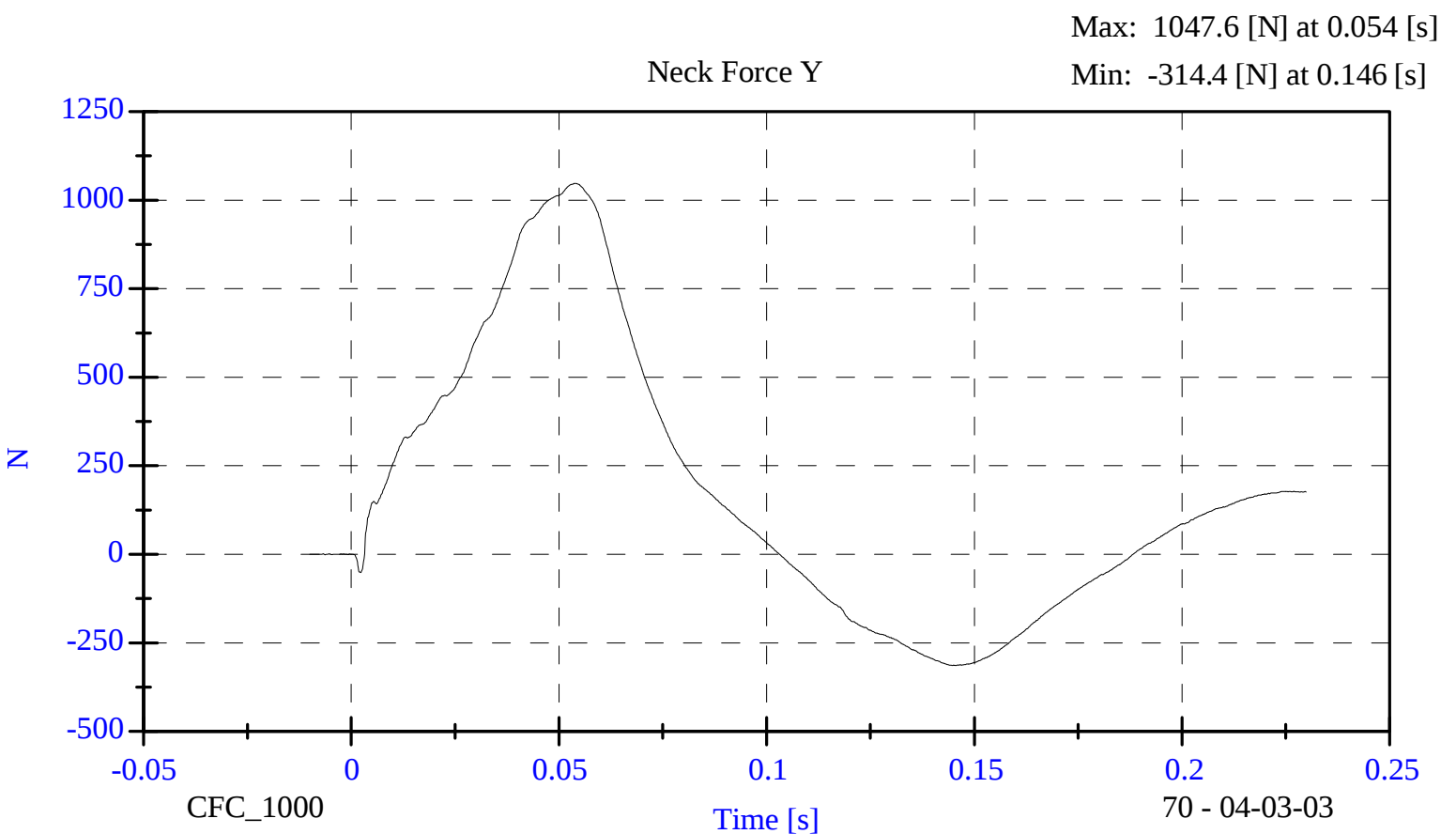
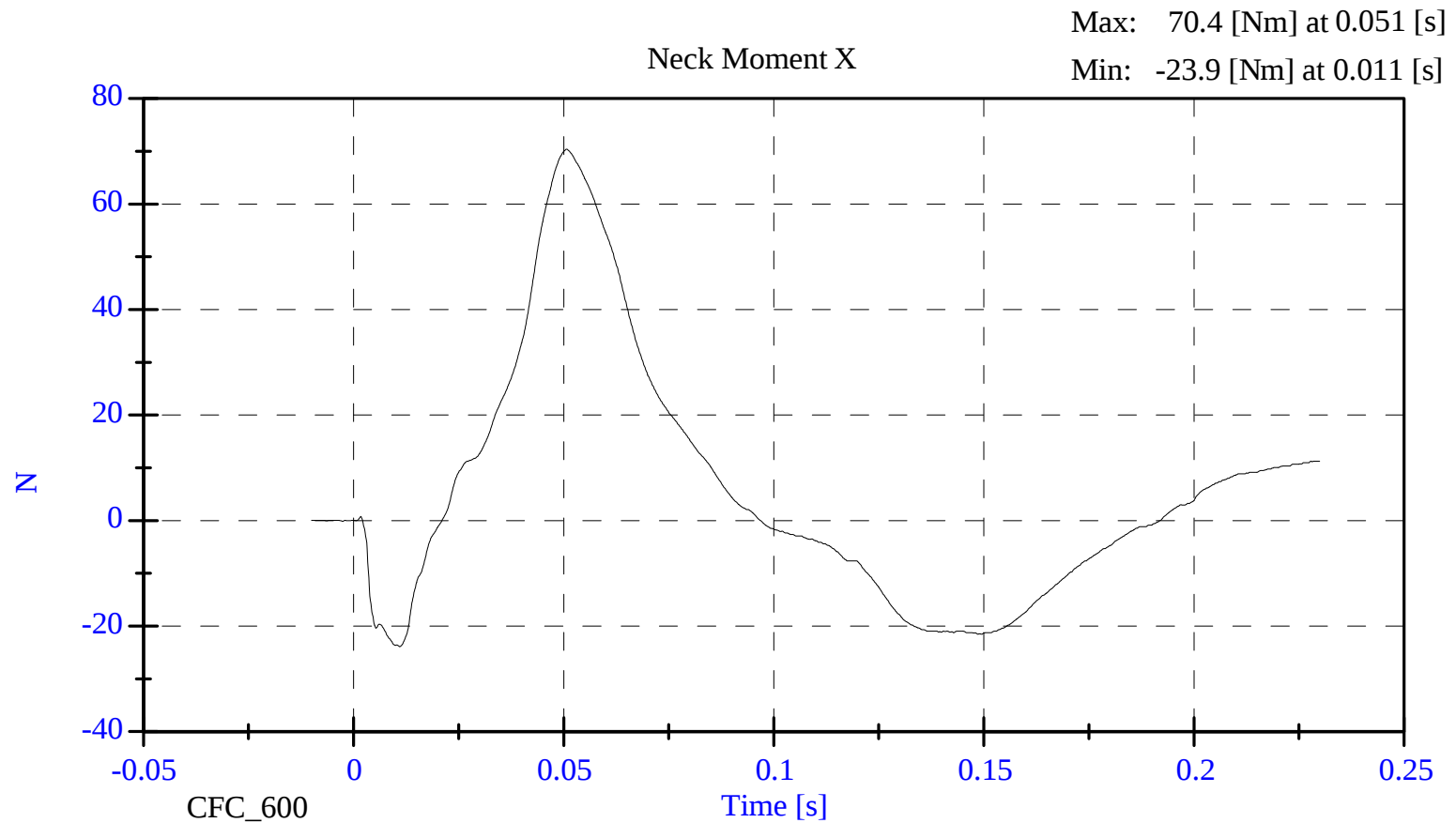
REMARKS: None

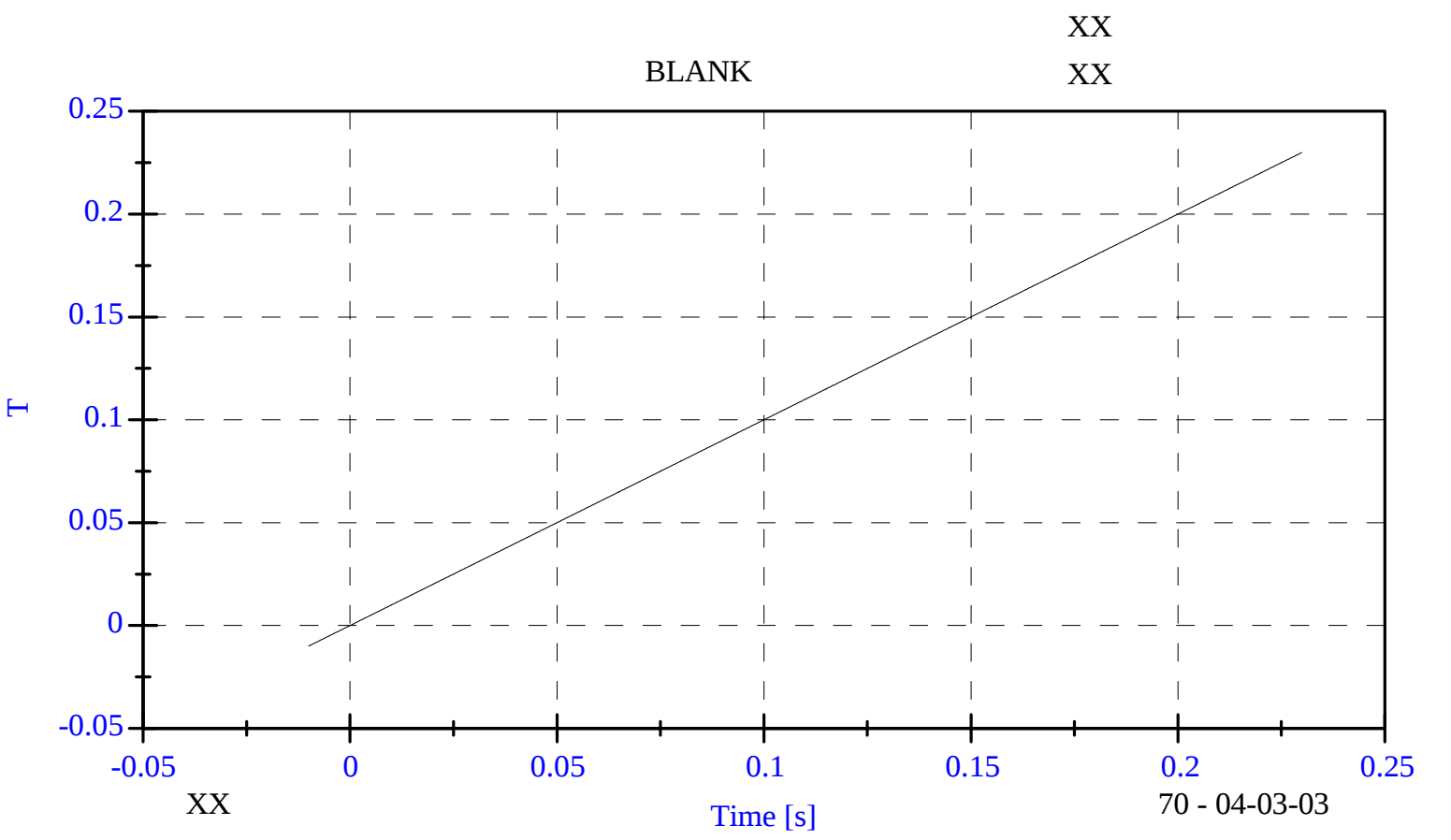
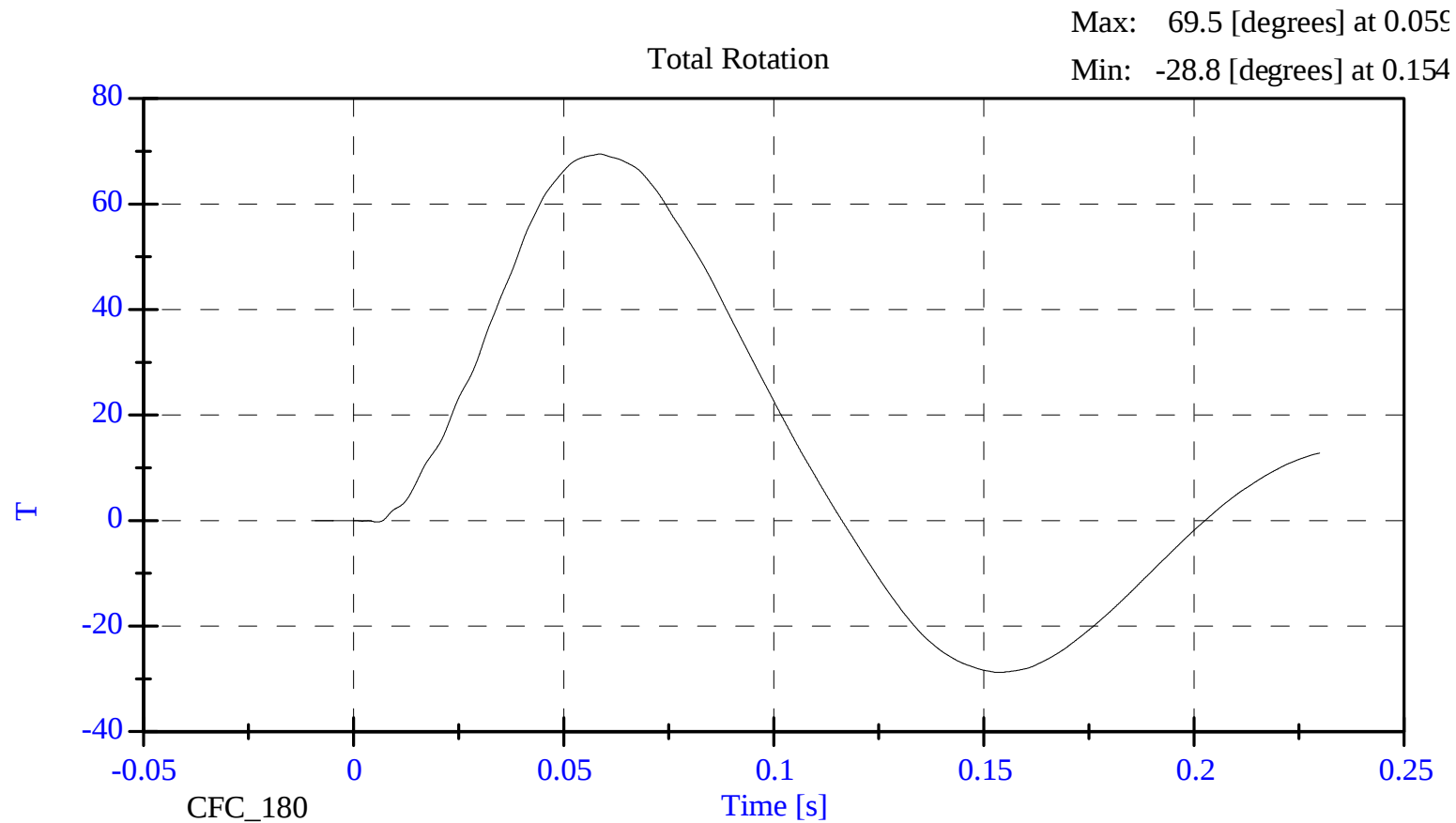


70 - 04-03-03



70 - 04-03-03





**ABDOMINAL COMPRESSION TEST
POST TEST**

(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	20.7
RELATIVE HUMIDITY (%)	10 - 70	31.0
FORCE @ 13 mm (N)	104 - 162	119.2
FORCE @ 19 mm (N)	163 - 221	177.9
FORCE @ 25 mm (N)	222 - 280	254.4
FORCE @ 33 mm (N)	325 - 391	369.2

REMARKS: None

Dummy S/N 016

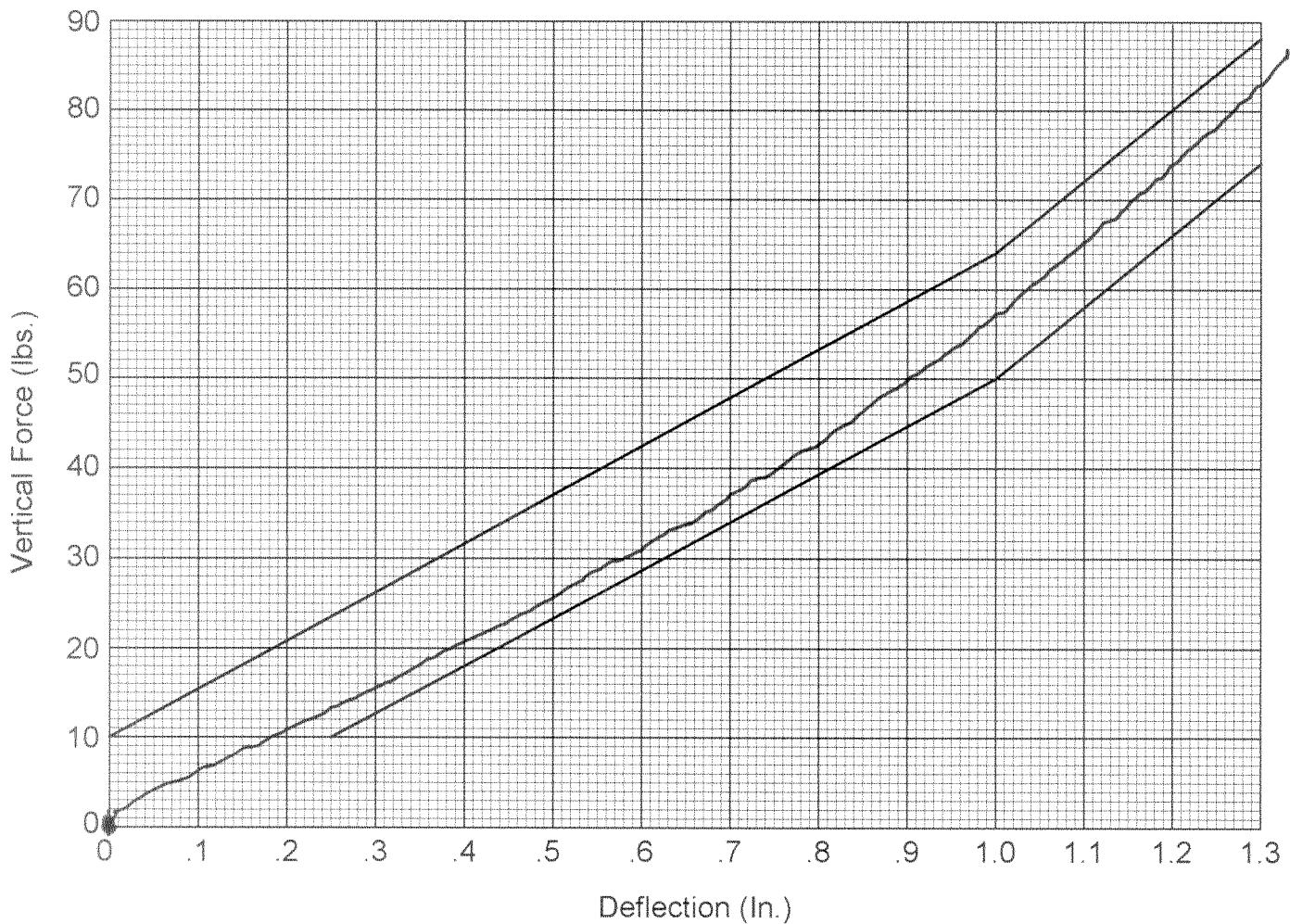
W/A _____

Date 4-4-03

Performed By [Signature]

Temp. 70°

Humidity 31%



Hybrid II
Abdomen Static Press

LUMBAR FLEXION TEST
POST TEST
(Test not required for SID certification)

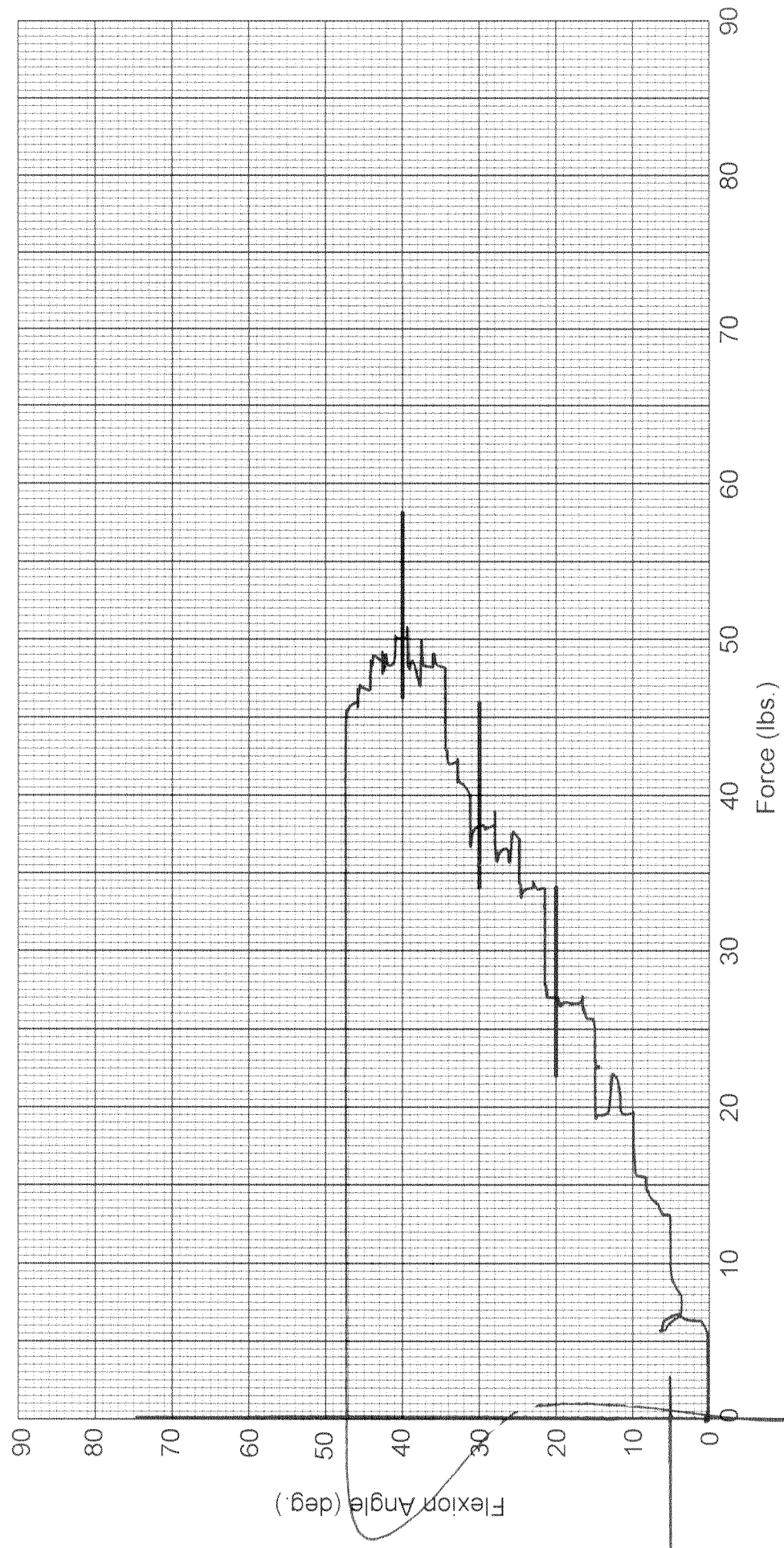
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	20.7
RELATIVE HUMIDITY (%)	10 - 70	31.0
FORCE @ 0° (N)	0 - 26.7	0.0
FORCE @ 20° (N)	97.8 - 151.2	117.9
FORCE @ 30° (N)	151.2 - 204.6	169.0
FORCE @ 40° (N)	204.6 - 258	222.4
RETURN ANGLE	12° max.	5°

REMARKS: None

Dummy S/N 016
W/A
Date 4-4-03
Performed By [Signature]
Temp. 70°
Humidity 31%



Hybrid II Lumbar Spine Flexion Test

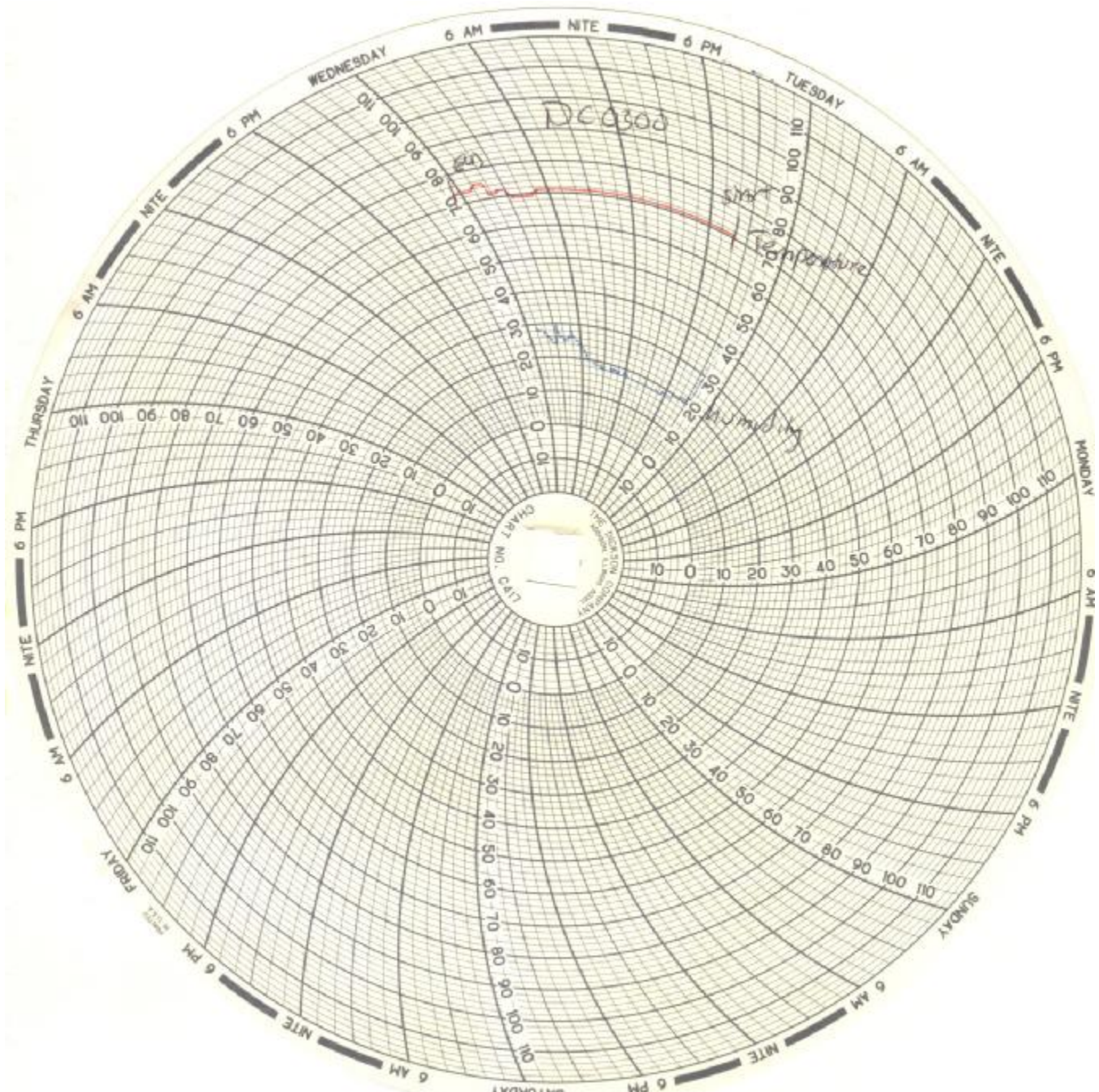
POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 016 Sequential Test Number: 4
Date: April 4, 2004 Laboratory Technician: B. Swiecicki

PART	ITEMS CHECKED	COMMENTS
SKIN	VISUAL INSPECTION	OK
HEAD	VISUAL, BALLAST, ACCELEROMETER MOUNT	OK
NECK	VISUAL, CABLE TORQUE	OK
SPINE BOX	VISUAL, BALLAST, WELDMENT, ACCELEROMETER MOUNT	OK
RIB CAGE	VISUAL, MEASURE, STIFFENERS	OK
STERNUM	VISUAL	OK
LUMBAR SPINE	VISUAL	OK
ABDOMEN	VISUAL	OK
PELVIS	VISUAL, PALPATE, ACCELEROMETER MOUNT	OK
UPPER LEGS	VISUAL	OK
KNEES	VISUAL, STOPS, INSERTS	OK
LOWER LEGS	VISUAL, RANGE OF MOTION	OK
ANKLES	VISUAL, RANGE OF MOTION	OK
FEET	VISUAL, RANGE OF MOTION	OK
JOINTS	1 TO 2 g RANGE	OK
OTHER	NONE	-

REMARKS: None

TEMPERATURE TRACE



APPENDIX D

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

SID INSTRUMENTATION

	FRONT SID NO.: 015		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P23993	ENDEVCO	04-Oct-02
HEAD AY	AC-P23939	ENDEVCO	04-Oct-02
HEAD AZ	AC-P23999	ENDEVCO	04-Oct-02
UPPER NECK FX	LC-260Fx	DENTON	12-Nov-02
UPPER NECK FY	LC-260Fy	DENTON	12-Nov-02
UPPER NECK FZ	LC-260Fz	DENTON	12-Nov-02
UPPER NECK MX	LC-260Mx	DENTON	12-Nov-02
UPPER NECK MY	LC-260My	DENTON	12-Nov-02
UPPER NECK MZ	LC-260Mz	DENTON	12-Nov-02
UPPER RIB	AC-P16862	ENDEVCO	18-Feb-03
LOWER RIB	AC-P16656	ENDEVCO	18-Feb-03
LOWER SPINE	AC-P16866	ENDEVCO	18-Feb-03
PELVIS	AC-P16676	ENDEVCO	18-Feb-03
UPPER RIB REDUNDANT	AC-P23156	ENDEVCO	18-Feb-03
LOWER RIB REDUNDANT	AC-P16645	ENDEVCO	18-Feb-03
LOWER SPINE REDUNDANT	AC-P16823	ENDEVCO	18-Feb-03
PELVIS REDUNDANT	AC-P16843	ENDEVCO	18-Feb-03

	REAR SID NO.: 016		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P23960	ENDEVCO	10-Oct-02
HEAD AY	AC-P23940	ENDEVCO	09-Oct-02
HEAD AZ	AC-P23899	ENDEVCO	10-Oct-02
UPPER NECK FX	LC-261Fx	DENTON	12-Nov-02
UPPER NECK FY	LC-261Fy	DENTON	12-Nov-02
UPPER NECK FZ	LC-261Fz	DENTON	12-Nov-02
UPPER NECK MX	LC-261Mx	DENTON	12-Nov-02
UPPER NECK MY	LC-261My	DENTON	12-Nov-02
UPPER NECK MZ	LC-261Mz	DENTON	12-Nov-02
UPPER RIB	AC-P18524	ENDEVCO	17-Feb-03
LOWER RIB	AC-P18533	ENDEVCO	17-Feb-03
LOWER SPINE	AC-P18514	ENDEVCO	17-Feb-03
PELVIS	AC-P18519	ENDEVCO	17-Feb-03
UPPER RIB REDUNDANT	AC-P18528	ENDEVCO	17-Feb-03
LOWER RIB REDUNDANT	AC-P18518	ENDEVCO	17-Feb-03
LOWER SPINE REDUNDANT	AC-P18688	ENDEVCO	17-Feb-03
PELVIS REDUNDANT	AC-P18531	ENDEVCO	17-Feb-03

REMARKS: None

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

VEHICLE AND MDB INSTRUMENTATION

	VEHICLE AND MDB INSTRUMENTS		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
RIGHT FRONT SILL (X)	AC-B11408	ENDEVCO	10-Feb-03
RIGHT FRONT SILL (Y)	AC-B10827	ENDEVCO	10-Feb-03
RIGHT FRONT SILL (Z)	AC-A13513	ENDEVCO	10-Feb-03
RIGHT REAR SILL (X)	AC-P17255	ENDEVCO	11-Feb-03
RIGHT REAR SILL (Y)	AC-P16813	ENDEVCO	11-Feb-03
RIGHT REAR SILL (Z)	AC-P17145	ENDEVCO	11-Feb-03
REAR FLOORPAN ABOVE AXLE (X)	AC-P21392	ENDEVCO	10-Feb-03
REAR FLOORPAN ABOVE AXLE (Y)	AC-P19253	ENDEVCO	10-Feb-03
REAR FLOORPAN ABOVE AXLE (Z)	AC-P23138	ENDEVCO	10-Feb-03
LEFT REAR SILL (Y)	AC-P18682	ENDEVCO	25-Mar-03
LEFT FRONT SILL (Y)	AC-8086-042	ICS	21-Nov-02
LEFT FRONT DOOR CENTERLINE (Y)	AC-J32791	ENDEVCO	11-Feb-03
RIGHT REAR SEAT OCCUPANT COMP. (Y)	AC-8084-014	ICS	20-Nov-02
MID REAR OF LEFT FRONT DOOR (Y)	AC-BB51	ENDEVCO	11-Feb-03
LEFT FRONT DOOR UPPER C/L (Y)	AC-J31042	ENDEVCO	10-Feb-03
MID REAR OF LEFT REAR DOOR (Y)	AC-P18728	ENDEVCO	25-Mar-03
LEFT REAR DOOR UPPER C/L (Y)	AC-P24011	ENDEVCO	25-Mar-03
LOWER LEFT B- PILLAR (Y)	AC-P23802	ENDEVCO	25-Mar-03
MIDDLE LEFT B-PILLAR (Y)	AC-P23884	ENDEVCO	25-Mar-03
LOWER LEFT A-PILLAR (Y)	AC-8084-036	ICS	20-Nov-02
UPPER LEFT A-PILLAR (Y)	AC-P23976	ENDEVCO	04-Oct-02
FRONT SEAT TRACK (Y)	AC-MB16	ENTRAN	23-Oct-02
REAR SEAT TRACK (Y)	AC-B03	ENTRAN	21-Jan-03
VEHICLE CG (X)	AC-J29805	ENDEVCO	21-Jan-03
VEHICLE CG (Y)	AC-J32383	ENDEVCO	21-Jan-03
VEHICLE CG (Z)	AC-J25745	ENDEVCO	21-Jan-03
MDB CG (X)	AC-C16682	ENDEVCO	18-Mar-03
MDB CG (Y)	AC-CJ54	ENDEVCO	18-Mar-03
MDB CG (Z)	AC-GK12	ENDEVCO	18-Mar-03
MDB REAR FRAME MEMBER (X)	AC-CX05	ENDEVCO	18-Mar-03
MDB REAR FRAME MEMBER (Y)	AC-C16685	ENDEVCO	18-Mar-03

REMARKS: None