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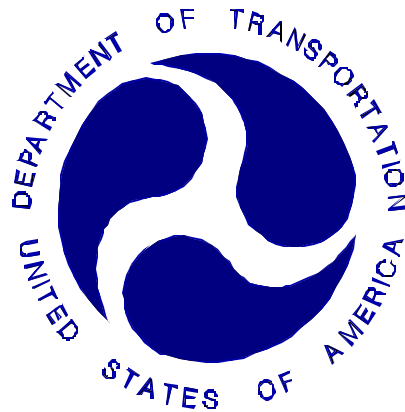
**SAFETY COMPLIANCE TESTING FOR FMVSS 214
SIDE IMPACT PROTECTION
INDICANT**

DAIMLERCHRYSLER CORPORATION
2005 CHRYSLER 300
4-DOOR SEDAN

NHTSA NUMBER: C50300

ADVANCED INFORMATION ENGINEERING SERVICES TEST NUMBER: 8675-F214-19

GENERAL DYNAMICS
ADVANCED INFORMATION ENGINEERING SERVICES
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May 6, 2004

FINAL REPORT

U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Enforcement
Office of Vehicle Safety Compliance
400 Seventh Street, SW
Room 6111 (NVS-220)
Washington, DC 20590

This Final Test Report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, under Contract No. DTNH22-02-D-01114. This publication is distributed by the U.S. Department of Transportation, National Highway Traffic Safety Administration, in the interest of information exchange. The opinions, findings and conclusions expressed in this publication are those of the author(s) and not necessarily those of the Department of Transportation or the National Highway Traffic Safety Administration. The United States Government assumes no liability for its contents or use thereof. If trade or manufactures' names or products are mentioned, it is only because they are considered essential to the object of the publication and should not be construed as an endorsement. The United States Government does not endorse products or manufacturers.

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16. Abstract A 55/28 kph 90° Side Impact (Moving Deformable Barrier) Indicant Test was conducted on the subject Chrysler 300 4-Door Sedan. This test was performed at the New Car Assessment Program (NCAP) target test velocity of 62.0 kph, which is 8 kph faster than the target velocity required by the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 26, 2001). This test was conducted at the Advanced Information Engineering Services Crash Test Facility in Buffalo, New York, on May 6, 2004. The impact velocity of the Moving Deformable Barrier (MDB) was 62.28 kph, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 21°C. The target vehicle post-test maximum crush was 325 mm at level 2. 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> <th></th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib Acceleration:</td> <td>45</td> <td>g's</td> <td>38.9</td> <td>g's</td> </tr> <tr> <td>Left Lower Rib Acceleration:</td> <td>51.6</td> <td>g's</td> <td>38.2</td> <td>g's</td> </tr> <tr> <td>Lower Spine Acceleration:</td> <td>68.2</td> <td>g's</td> <td>42.6</td> <td>g's</td> </tr> <tr> <td>Thoracic Trauma Index (TTI):</td> <td>60</td> <td>g's</td> <td>41</td> <td>g's</td> </tr> <tr> <td>Pelvis Acceleration (PEV):</td> <td>56</td> <td>g's</td> <td>50</td> <td>g's</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:	45	g's	38.9	g's	Left Lower Rib Acceleration:	51.6	g's	38.2	g's	Lower Spine Acceleration:	68.2	g's	42.6	g's	Thoracic Trauma Index (TTI):	60	g's	41	g's	Pelvis Acceleration (PEV):	56	g's	50	g's
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17. Key Words Compliance Testing Side Impact Protection FMVSS 214 Side Impact Dummy (SID)		18. Distribution Statement <u>Copies of this report are available from</u> National Highway Traffic Safety Administration Technical Reference Division (TIS) Room 5108 (NPO-230) 400 Seventh St., S.W. Washington, D.C. 20590 Telephone No. (202) 366-4946																															
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SECTION 1

PURPOSE AND TEST PROCEDURE

This side impact test is part of the FMVSS 214 Side Impact Protection Compliance Test Program sponsored by the National Highway Traffic Safety Administration (NHTSA) under Contract No. DTNH22-02-D-01114. The purpose of this indicant test was to evaluate side impact protection in a 2005 Chrysler 300 4-Door Sedan when tested at the New Car Assessment Program (NCAP) target test velocity of 62.0 kph, which is 8 kph faster than the target velocity required by the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 26, 2001).

SECTION 2

SUMMARY OF SIDE IMPACT TEST

This Side Impact Protection Indicant Test was performed at the New Car Assessment Program (NCAP) target test velocity of 62.0 kph, which is 8 kph faster than the target velocity required by the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-06, dated July 26, 2001).

A 2005 Chrysler 300 4-Door Sedan 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 62.28 kph (38.7 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 Advanced Information Engineering Services Transportation Sciences Center in Buffalo, New York on May 6, 2004. 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 60 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)	60	41
PEV (g)	56	50

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	N/A	N/A	N/A

AUTOMATIC DOOR LOCK SUMMARY

ADL Equipped Test Vehicle:	Yes
ADL Activation Status:	Deactivated
Struck Side Door Lock Condition:	Unlocked

SECTION 3

SUMMARY OF TEST RESULTS

DATA SHEET 1

GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:

Year/Make/Model/Body Style: 2005 Chrysler 300 4-Door Sedan

Vehicle Body Color: Silver VIN: 2C3JA43R95H141157

Vehicle NHTSA No.: C50300 Month & Year of Manufacture: 04-04

Engine Data: 6 Cylinders; - CID; 2.7 Liters; - cc

Engine Placement: X Longitudinal; or - Lateral

Transmission: 4 Speed; - Manual; X Automatic; X Overdrive

Final Drive: X Rear Wheel Drive; - Front Wheel Drive; - Four Wheel Drive

Odometer Reading 26 km

Supplemental Airbag Restraints:

Front Occupant: X Frontal; - Knee; - Side; - Curtain

Rear Occupant: X Frontal; - Knee; - Side; - Curtain

Options:

X ADL; X A/C; X Power Steering; X Power Brakes; X Power Windows

DATA FROM TIRE PLACARD

Recommended Tire Size: P215/65R17

* Recommended Cold Tire Pressure: 210 kpa FRONT; 210 kpa REAR

DATA FROM TIRE SIDEWALL:

Size of Tires on Test Vehicle: P215/65R17 98T ; Manufacturer: Goodyear

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

Treadwear: 460 ; Traction: A ; Temperature: B

VEHICLE CAPACITY DATA:

Number of Occupants: 2 Front; 3 Rear; - 3rd Seat; 5 Total

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

Type of Rear Seats: - Bucket; - Bench; - Split Bench; X Contoured

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

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

Vehicle Max Capacity Loading = 392.0 kg (A)

No. of Occupants x 68.04 kg. = 340.2 kg (B)

Vehicle Cargo Capacity = 51.8 kg (A-B)

TEST VEHICLE DELIVERED WEIGHT WITH MAXIMUM FLUIDS:

Left Front = 444.0 kg Left Rear = 388.5 kg

Right Front = 457.0 kg Right Rear = 395.0 kg

TOTAL FRONT = 901.0 kg TOTAL REAR = 783.5 kg

% of Total Weight = 53.5% % % of Total Weight = 46.5 %

TOTAL WEIGHT = 1684.5 kg

* Tire pressure used in test.

DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:

Total Test Vehicle Delivered Weight with Max. Fluids	=	<u>1684.5</u>	kg (A)
Maximum Cargo Carrying Capacity of Test Vehicle	=	<u>51.8</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>1898.7</u>	kg (A+B+C)

FULLY LOADED TEST VEHICLE (2 SID H3s + CARGO):

Left Front	=	<u>500.5</u>	kg	Left Rear	=	<u>481.5</u>	kg
Right Front	=	<u>455.5</u>	kg	Right Rear	=	<u>463.0</u>	kg
TOTAL FRONT	=	<u>956.0</u>	kg	TOTAL REAR	=	<u>944.5</u>	kg
% of Total Weight	=	<u>50.3%</u>	%	% of Total Weight	=	<u>49.7%</u>	%
TOTAL TEST WEIGHT =		<u>1900.5</u>	kg				

AS TESTED WEIGHT OF TEST VEHICLE (2 SID H3s + CARGO + EQUIPMENT & INSTRUMENTATION):

Left Front	=	<u>502.0</u>	kg	Left Rear	=	<u>469.0</u>	kg
Right Front	=	<u>459.0</u>	kg	Right Rear	=	<u>460.0</u>	kg
TOTAL FRONT	=	<u>961.0</u>	kg	TOTAL REAR	=	<u>929.0</u>	kg
% of Total Weight	=	<u>50.8%</u>	%	% of Total Weight	=	<u>49.2%</u>	%
TOTAL TEST WEIGHT =		<u>1890</u>	kg				

TEST VEHICLE ATTITUDE (all dimensions in millimeters):

AS DELIVERED:

Left Front	<u>789</u>	Right Front	<u>785</u>	Left Rear	<u>795</u>	Right Rear	<u>790</u>
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FULLY LOADED:

Left Front	<u>769</u>	Right Front	<u>777</u>	Left Rear	<u>758</u>	Right Rear	<u>765</u>
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READY FOR TEST:

Left Front	<u>771</u>	Right Front	<u>779</u>	Left Rear	<u>761</u>	Right Rear	<u>770</u>
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Test Vehicle Wheelbase: 3055 millimeters

C.G. = 1501.64 millimeters rearward of front wheel centerline

TOTAL VEHICLE LENGTH:

Right Side =	<u>4875</u>	millimeters
Left Side =	<u>4875</u>	millimeters
Centerline =	<u>5000</u>	millimeters

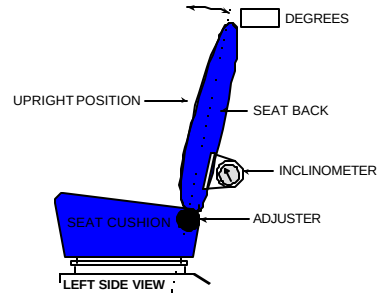
DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300

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 ASSEMBLY

FRONT SEAT CUSHION PLACEMENT: Placed in mid-position (150 mm) and full down.

Total Length of Adjustment Travel: 300 millimeters

Total Number of Adjustment Positions or Detents: Electronic adjuster

FRONT SEAT BACK ADJUSTMENT POSITION: Adjust to 76° relative to vertical on the head restraint post

Seat Back Torso Angle: 14 degrees

SECOND POSITION SEAT:

Total Length of Fore/Aft Adjustment Travel: N/A millimeters

Seat Back Adjustment Position: N/A

ADJUSTABLE STEERING COLUMN POSITION: Placed in mid-tilt (20.5°) and telescope (30 mm)

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.

AUTOMATIC DOOR LOCKS: Is test vehicle equipped with ADLs? X Yes - No

Does vehicle owner's manual describe how to deactivate ADLs? X Yes - No - N/A

Comments: None

AMOUNT OF STODDARD SOLVENT IN FUEL TANK:

68 liters (Fuel Tank Usable Capacity)

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

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

Wheelbase = 3055 millimeters

Impact Point is 508 millimeters rearward of front axle centerline

(which is 940 millimeters forward of the wheelbase midpoint)

Actual Impact Point is 502 millimeters rearward of front axle centerline

DATA SHEET 2

TEST VEHICLE SUMMARY OF RESULTS

VEHICLE IDENTIFICATION:

Vehicle Year/Make/Model: 2005 Chrysler 300

Body Style: 4-Door Sedan

VIN: 2C3JA43R95H141157

NHTSA No.: C50300

Test Date: May 6, 2004

Overall Length = 5000 millimeters; Overall Width = 1875 millimeters

VEHICLE TEST WEIGHT (Pre-Test):

Left Front = 502.0 kg Left Rear = 469.0 kg

Right Front = 459.0 kg Right Rear = 460.0 kg

TOTAL FRONT = 961.0 kg TOTAL REAR = 929.0 kg

TOTAL VEHICLE WEIGHT 1890.0 kg

Wheelbase = 3055 millimeters

Longitudinal C.G. from Center of Front Axle = 1501.64 millimeters

Impact Angle with Respect to Impactor = 90 degrees

ACTUAL IMPACT POINT

Actual Impact Point is 6 mm forward of nominal impact ref. line (Lateral)

Actual Impact Point is 5 mm below nominal impact point (Vertical)

MAXIMUM EXTERIOR STATIC CRUSH:

1. LEVEL 1 (203 mm above ground) = 30 millimeters

2. LEVEL 2 (527 mm above ground) = 325 millimeters

3. LEVEL 3 (649 mm above ground) = 306 millimeters

4. LEVEL 4 (940 mm above ground) = 244 millimeters

5. LEVEL 5 (1389 mm above ground) = 103 millimeters

Maximum Post-Test Intrusion = 325 millimeters

OCCUPANTS:

Front Passenger:

Rear Passenger:

Dummy Identification SID H3/ 269

SID H3/ 270

Restraints Used Three-Point Safety Belt

Three-Point Safety Belt

INSTRUMENTATION:

Number of Vehicle Data Channels: = 21

Number of Cameras: Onboard = 3

Offboard = 6

TOTAL = 9

DATA SHEET 3

MOVING DEFORMABLE BARRIER (MDB) SUMMARY

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300

MDB FACE MANUFACTURER AND SERIAL NUMBER:

Plascore, Inc. 115A0204 071B0304-1

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>62.28</u>	kph				

MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE:

1. Row A at Center of Bumper Level	=	<u>188</u>	millimeters
2. Row B at Top of Bumper Level	=	<u>135</u>	millimeters
3. Row C at Mid Level	=	<u>121</u>	millimeters
4. Row D at Top of Stack Level	=	<u>178</u>	millimeters

INSTRUMENTATION:

Number of MDB Data Channels	=	<u>5</u>
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DATA SHEET 4**POST-TEST OBSERVATIONS**Vehicle: 2005 Chrysler 300 4-Door SedanNHTSA No. C50300TEST DUMMY INFORMATION AND CONTACT POINTS:

DESCRIPTION	FRONT SEAT	REAR SEAT
ATD Type/Serial No.	SID H3/ 269	SID H3/ 270
Head Contact:	The top of the head to the B-Pillar and the back of the head to the D-ring.	The side and top of the head to the C-Pillar.
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	N/A
Seat Movement (mm)	0	0
Seat Back Failure	None	None

POST TEST STRUCTURAL OBSERVATIONS

CRITICAL AREAS OF PERFORMANCE	
Pillar Performance	The A- and B-Pillars were moved inboard during the event with no visible tears or separations.
Sill Separation	No visible tears or separations were present.
Windshield Damage	The windshield was cracked along the left A-Pillar and windshield header
Window Damage	Side glass shattered upon impact.
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	N/A	N/A	N/A

MDB LEFT EDGE IMPACT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	? 50 mm	6 mm forward
Vertical Offset	mm	? 20 mm	5 mm below

SECTION 4

OCCUPANT AND VEHICLE INFORMATION

DATA SHEET 5

SID H3 INSTRUMENTATION DATA

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300

		Front Dummy ID# 269				Rear Dummy ID# 270			
		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	27.8	34.4	-15.1	93.1	5.2	78.3	-14.0	61.8
Lateral	Y	138.9	35.8	-5.8	76.8	60.2	49.7	-2.1	77.4
Vertical	Z	20.0	43.2	-18.5	39.4	9.6	51.1	-11.2	65.3
Resultant	R	141.4	35.8	0.0	-7.0	60.4	49.7	0.0	-14.7
HIC		539.3				217.4			
NECK FORCES:									
Longitudinal	X	123.1	199.8	-633.8	46.9	§	§	§	§
Lateral	Y	195.3	43.2	-1157.0	36.2	160.5	128.7	-845.4	60.4
Vertical	Z	831.1	43.5	-1154.8	39.5	247.3	112.9	-1098.1	60.0
Resultant	R	1279.0	38.3	0.1	-11.7	§	§	§	§
NECK MOMENTS:									
X		19.7	36.8	-36.2	43.1	24.1	113.6	-52.7	50.3
Y		32.0	106.7	-52.6	47.1	46.6	68.3	-24.6	90.7
Z		48.8	54.9	-20.5	117.2	15.0	111.4	-7.2	55.7
Resultant	R	66.8	47.0	0.0	-15.6	53.0	50.3	0.0	-12.1
RIB ACCELERATIONS:									
Upper Rib Lateral	Y	45.0	44.4	-16.5	94.4	38.9	59.4	-29.1	108.7
Upper Rib Lateral	Y(R)	47.4	28.7	-17.3	76.8	38.9	59.4	-12.1	115.0
Lower Rib Lateral	Y	51.6	45.0	-18.7	76.8	38.2	58.7	-14.4	114.4
Lower Rib Lateral	Y(R)	51.8	44.4	-19.3	76.8	38.6	58.7	-29.1	110.0
SPINE ACCELERATIONS:									
Lower Lateral	Y	68.2	42.5	-16.5	90.6	42.6	61.8	-7.1	118.8
Lower Lateral	Y(R)	69.0	42.5	-16.1	90.6	41.8	61.2	-6.9	118.8
PELVIC ACCELERATIONS:									
Lateral	Y	55.7	38.2	-11.8	91.8	49.7	51.2	-4.5	113.1
Lateral	Y(R)	56.6	38.2	-12.0	91.8	48.8	51.2	-4.3	113.1

§ - Data is Questionable

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.

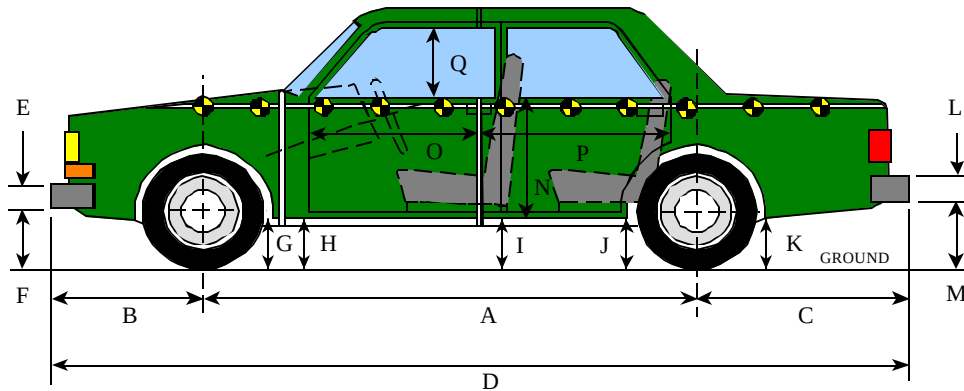
Head Accelerations and Neck Forces are filtered at SAE Class 1000, Neck Moments are filtered at SAE Class 600.

DATA SHEET 6

VEHICLE SIDE MEASUREMENTS

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



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)	▼ CHANGE
A	3050	3055	3014	-41
B	870	-	901	31
C	1080	-	1070	-10
D	5000	-	4985	-15
E	185	-	185	0
F	253	247	269	22
G	165	140	150	10
H	167	142	151	9
I	170	145	123	-22
J1	181	146	160	14
J2	190	155	146	-9
K	259	214	233	19
L	430	-	430	0
M	310	275	286	11
N	753	-	675	-78
O	694	-	676	-18
P	1348	-	1240	-108
Q	435	-	420	-15
R	4875	-	4857	-18
S	4875	-	4845	-30
T	1875	-	1675	-200

D = Length at Centerline
T = Width at B-Pillar

E&L = Bumper Thickness
J1 = To Pinch Weld

R = Right Side Length
J2 = To Sill

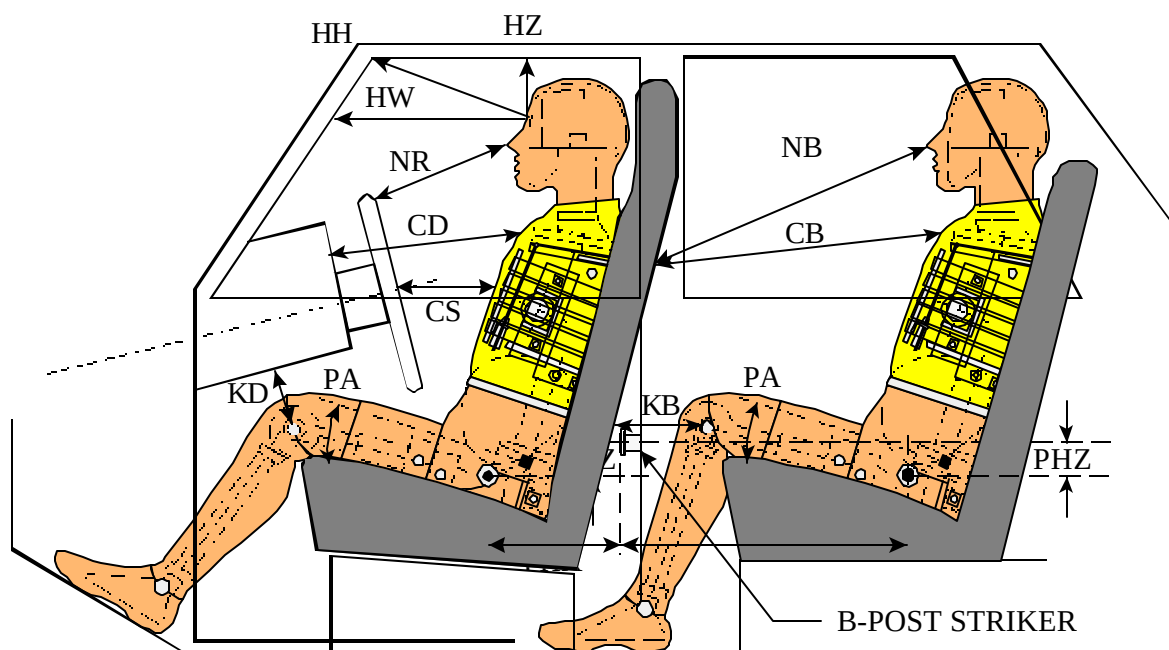
S = Left Side Length

DATA SHEET 7

SID H3 LONGITUDINAL CLEARANCE DIMENSIONS

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



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# 269	LEFT REAR PASS. ID# 270
HH	678	N/A
HW	907	N/A
HZ	193	160
NR/NB	500	651
CD/CB	632	540
CS	337	N/A
KDL(KDA°)/KBL(KDA°)	200 / (26 °)	222 / (22 °)
KDR(KBA°)/KBR(KBA°)	203 / (31 °)	224 / (26 °)
PA°	23.2°	23.7°
PHX	166	201
PHZ	141	289

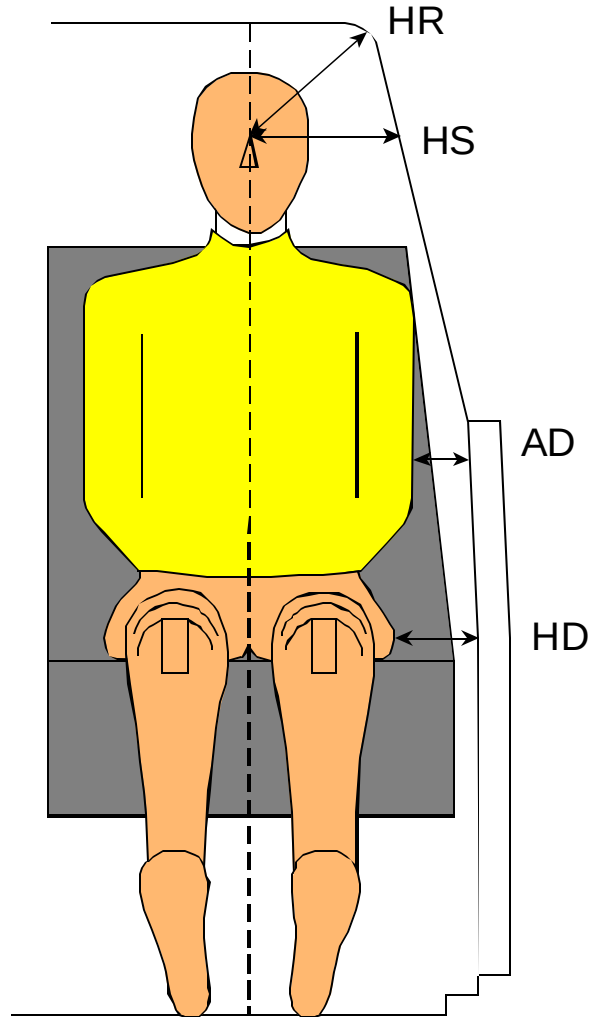
Note: 2-door vehicle shown. Rear dummy PHX & PHZ measurements for 4-door vehicle would use the C-post striker as a reference point.

DATA SHEET 8

SID H3 LATERAL CLEARANCE DIMENSIONS

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



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

	DRIVER ID # 269		LEFT REAR PASS. ID # 270	
HR	161		160	
HS	280		185	
AD*	LOWER: 141	UPPER: 124	LOWER: 121	UPPER: 102
HD	159		160	

* 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.

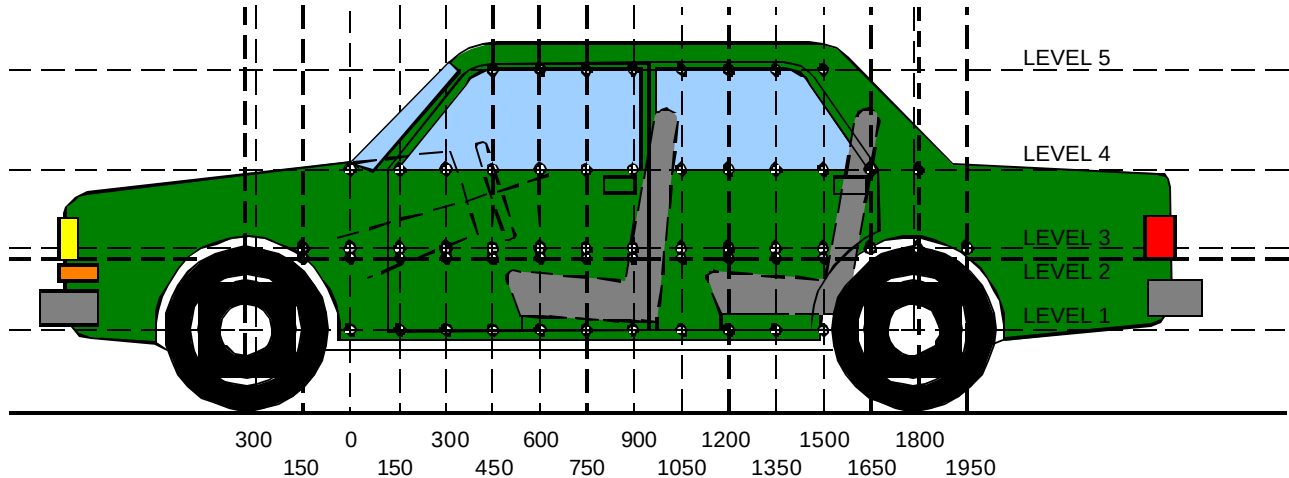
Upper measurement is taken laterally at the center of the upper rib accelerometer height from the SID H3 arm segment to the closest part of the vehicle side.

DATA SHEET 9

VEHICLE SIDE MEASUREMENTS

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



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:

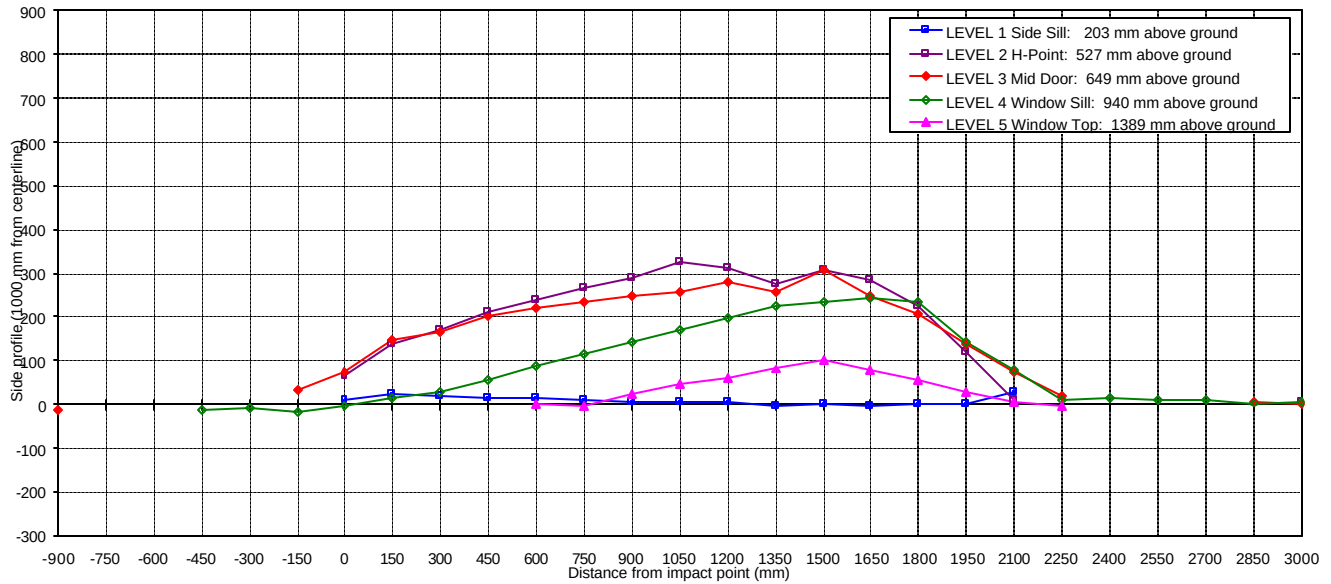
Level 5 @ Window Top	=	<u>1389</u>	millimeters
Level 4 @ Window Sill	=	<u>940</u>	millimeters
Level 3 @ Mid Door	=	<u>649</u>	millimeters
Level 2 @ Occupant H-Point	=	<u>527</u>	millimeters
Level 1 @ Axle Centerline Height (or Sill Top Height)	=	<u>203</u>	millimeters

DATA SHEET 10

VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



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

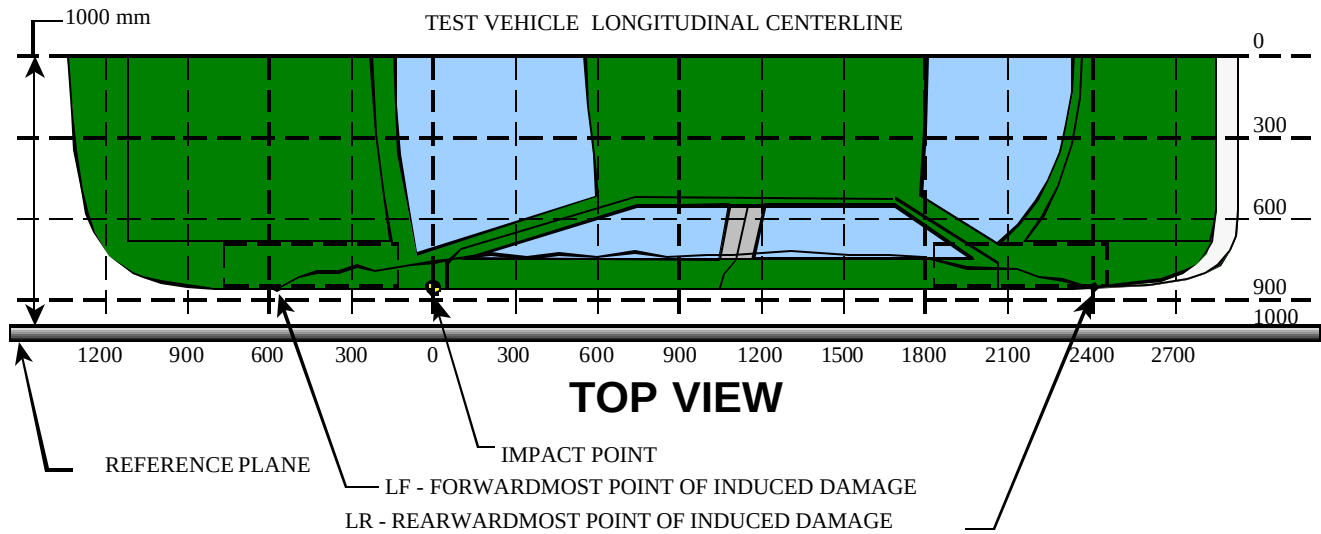
			DISTANCE IN MILLIMETERS (mm) FROM IMPACT POINT																											
LEVEL	HEIGHT (mm)		-900	-750	-600	-450	-300	-150	0	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000	
LEVEL 1 SIDE SILL	203	PRE	-	-	--	--	-	-	140	132	133	129	131	129	133	130	132	136	135	137	137	141	144	-	-	--	--	-	-	
		POST	-	-	--	--	-	-	149	155	151	145	144	137	139	136	136	134	135	134	137	141	174	-	-	--	--	-	-	
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	9	23	18	16	13	8	6	6	4	-2	0	-3	0	0	30	N/A	N/A	N/A	N/A	N/A	N/A	
LEVEL 2 H POINT	527	PRE	-	-	--	--	-	-	89	86	85	82	79	78	77	75	76	78	80	82	84	89	77	-	-	--	--	-	108	
		POST	-	-	--	--	-	-	152	226	254	294	319	343	366	400	386	355	386	366	311	207	86	-	-	--	--	-	112	
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	63	140	169	212	240	265	289	325	310	277	306	284	227	118	9	N/A	N/A	N/A	N/A	N/A	4	
LEVEL 3 MID DOOR	649	PRE	108	-	--	--	-	68	85	80	79	76	73	72	71	71	69	73	76	79	83	88	83	62	-	--	--	67	121	
		POST	95	-	--	--	-	101	159	227	246	276	292	308	317	330	350	332	382	328	288	224	158	83	-	--	--	73	123	
		CRUSH	-13	N/A	N/A	N/A	N/A	33	74	147	167	200	219	236	246	259	281	259	306	249	205	136	75	21	N/A	N/A	N/A	6	2	
LEVEL 4 WINDOW SILL	940	PRE	-	-	--	253	194	181	161	150	139	133	124	118	115	110	106	104	103	103	102	105	78	88	115	123	128	143	152	
		POST	-	-	--	238	184	163	158	164	166	188	210	234	258	280	305	328	337	347	336	247	157	98	131	131	136	146	156	
		CRUSH	N/A	N/A	N/A	-15	-10	-18	-3	14	27	55	86	116	143	170	199	224	234	244	234	142	79	10	16	8	8	3	4	
LEVEL 5 WINDOW TOP	1389	PRE	-	-	--	--	-	-	--	--	-	-	840	505	386	368	366	366	365	362	362	370	418	553	-	--	--	-	-	
		POST	-	-	--	--	-	-	--	--	-	-	840	502	408	414	428	447	468	441	418	399	422	548	-	--	--	-	-	
		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	-3	22	46	62	81	103	79	56	29	4	-5	N/A	N/A	N/A	N/A	N/A	

DATA SHEET 11

VEHICLE DAMAGE PROFILE DISTANCES

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



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

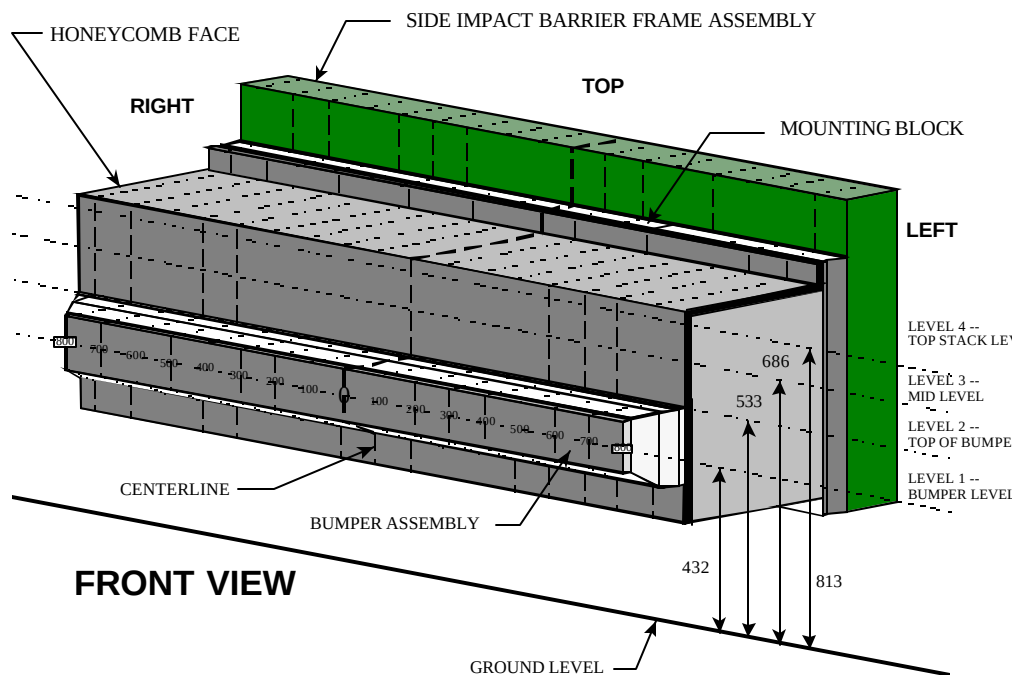
DPD MEASUREMENTS		POST TEST (mm)	PRETEST (mm)	STATIC CRUSH (mm)
1	(LR = <u>2300</u> mm)	109	97	12
2	1810	330	102	228
3	1320	361	78	283
4	830	355	77	278
5	340	265	84	181
6	(LF = <u>-150</u> mm)	163	181	-18

DATA SHEET 12

EXTERIOR STATIC CRUSH FOR IMPACTOR FACE

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



NOTE: Dimensions are shown in millimeters, mm

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

			NOTE: All dimensions are in millimeters with a tolerance of ± 3 mm																		
			DISTANCE RIGHT OF CENTER (mm)											DISTANCE LEFT OF CENTER (mm)							
LEVEL	HEIGHT AT CL (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	670	646	640	661	677	654	652	649	655	661	669	681	694	716	755	797	790		
		CRUSH	51	27	21	42	58	35	33	30	36	42	50	62	75	97	136	178	171		
LEVEL 3 MID LEVEL	686	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619		
		POST	700	659	636	653	667	652	635	631	631	632	639	649	655	673	703	740	732		
		CRUSH	81	40	17	34	48	33	16	12	12	13	20	30	36	54	84	121	113		
LEVEL 2 TOP BUMPER	533	PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619		
		POST	706	712	698	690	676	662	656	657	666	676	689	695	703	715	730	751	754		
		CRUSH	87	93	79	71	57	43	37	38	47	57	70	76	84	96	111	132	135		
LEVEL 1 MID BUMPER	432	PRE	535	519	518	518	518	518	518	518	518	518	518	518	518	518	518	519	535		
		POST	679	645	629	640	621	609	600	595	600	607	616	624	635	648	678	707	717		
		CRUSH	144	126	111	122	103	91	82	77	82	89	98	106	117	130	160	188	182		

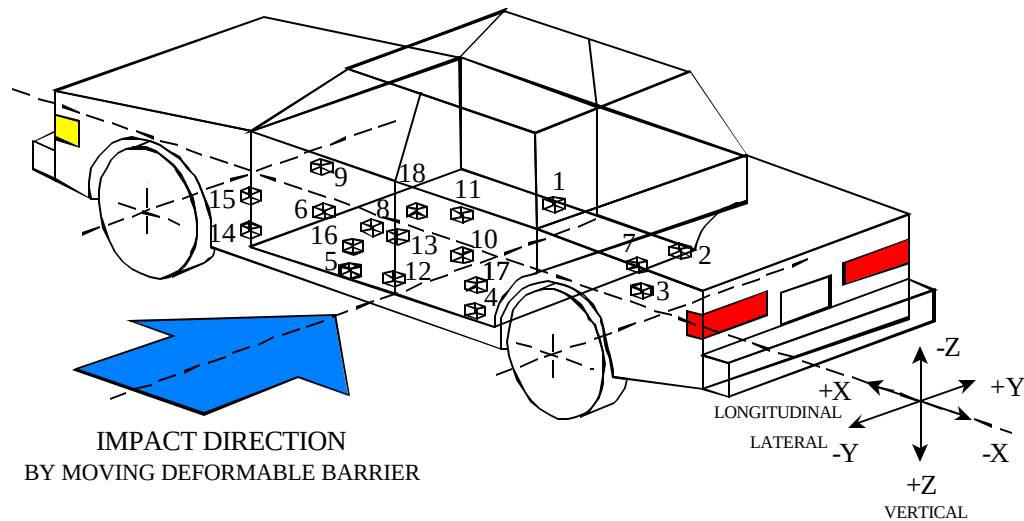
*Heights measured above ground level.

DATA SHEET 13

TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



- 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: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300

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*		Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
1	Right Side Sill at Front Seat	3165	739	-349	pos.	2.2	25.5	34.5	8.4	3.5	45.2	35.5	8.5
					neg.	-6.6	7.7	-2.9	117.6	-8.6	10.4	0.0	-20.0
2	Right Side Sill at Rear Seat	2165	735	-351	pos.	2.6	25.3	27.3	7.3	3.8	21.7	27.8	7.3
					neg.	-5.0	7.1	-2.2	116.5	-7.8	11.3	0.0	-13.2
3	Rear Floorpan Above Axle	1274	5	-508	pos.	5.4	28.5	22.3	20.2	13.9	17.8	24.8	18.9
					neg.	-7.0	16.3	-2.2	94.3	-18.4	11.9	0.0	-8.7
4	Left Side Sill at Rear Seat	2160	-732	-244	pos.	-	-	70.2	11.2	-	-	-	-
					neg.	-	-	-16.6	50.9	-	-	-	-
5	Left Side Sill at Front Seat	3163	-741	-237	pos.	-	-	131.6	4.4	-	-	-	-
					neg.	-	-	-27.4	18.0	-	-	-	-
6	Left Front Door on Centerline	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
7	Right Rear Occupant Compartment	2068	591	-348	pos.	-	-	24.5	7.4	-	-	-	-
					neg.	-	-	-2.4	116.2	-	-	-	-
8	Midrear of Left Front Door	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
9	Left Front Door Upper Centerline	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
10	Midrear of Left Rear Door	-	-	-	Pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
11	Left Rear Door Upper Centerline	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-

*Reference: X - Rear Bumper (+ Forward)

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

**Accelerometer was not requested by COTR.

4-11

8675-F214-19

DATA SHEET 13 (continued)

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300

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	2283	-738	-434	pos.	-	-	160.8	3.7	-	-	-	-
					neg.	-	-	-140.5	24.3	-	-	-	-
13	Left Middle B-Pillar	2192	-678	-1020	pos.	-	-	134.8	12.6	-	-	-	-
					neg.	-	-	-92.4	77.2	-	-	-	-
14	Left Lower A-Pillar	3392	-715	-357	pos.	-	-	‡	‡	-	-	-	-
					neg.	-	-	‡	‡	-	-	-	-
15	Left Middle A-Pillar	3299	-705	-977	pos.	-	-	31.3	8.7	-	-	-	-
					neg.	-	-	-9.1	53.7	-	-	-	-
16	Front Seat Track	2409	-565	-257	pos.	-	-	48.8	22.1	-	-	-	-
					neg.	-	-	-20.7	51.4	-	-	-	-
17	Rear Seat Track	1070	-435	-521	pos.	-	-	22.1	20.1	-	-	-	-
					neg.	-	-	-2.3	93.9	-	-	-	-
18	Vehicle CG	2460	98	-427	pos.	4.8	25.9	40.6	26.2	21.4	28.2	42.6	26.4
					neg.	-8.5	16.5	-10.0	53.4	-11.5	8.0	0.0	-10.7

*Reference: X - Rear Bumper (+ Forward)

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

‡ - Data is questionable from 84 to 88 ms.

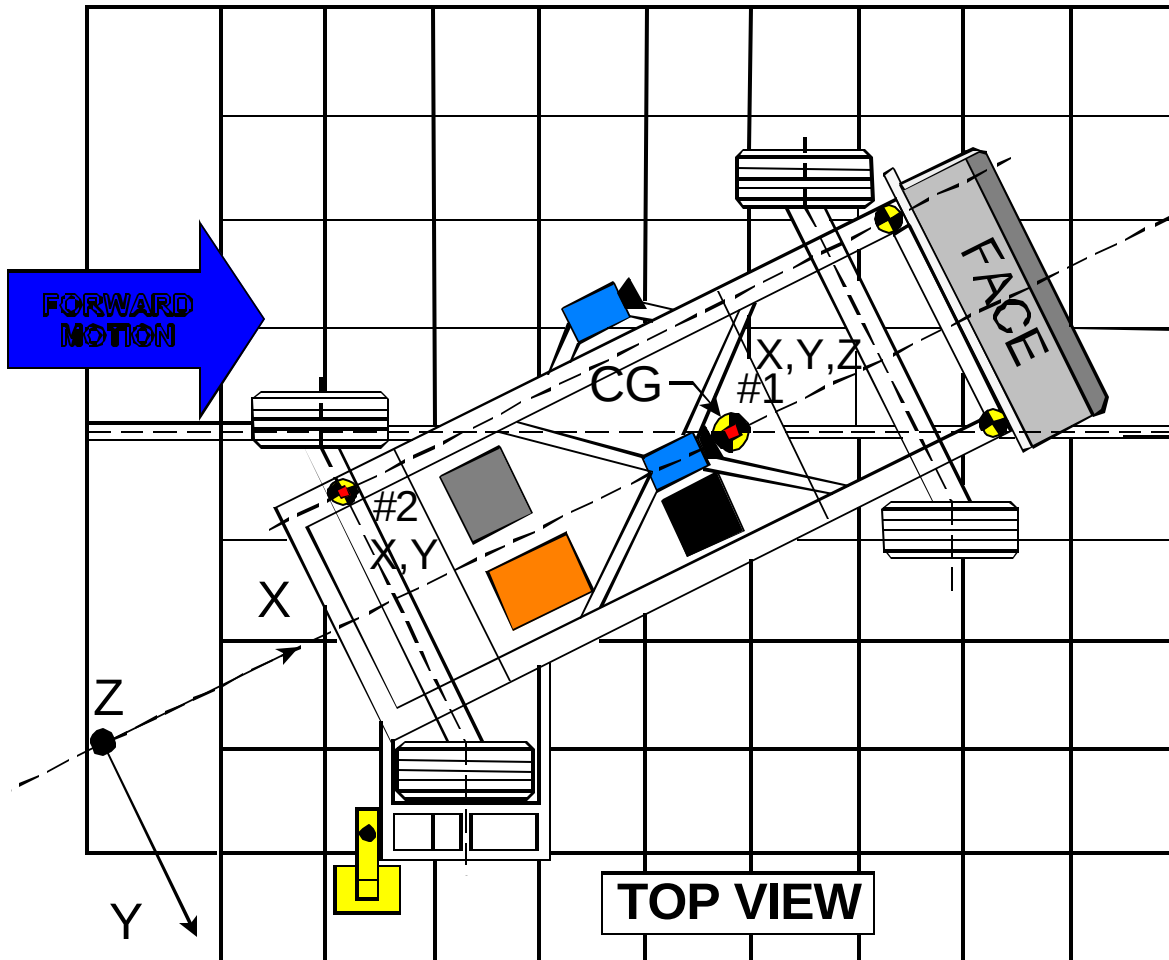
4-12

DATA SHEET 14

MDB ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



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	1.3	117.8	-21.4	41.1
	Lateral..... Y				0.2	-6.9	-6.3	12.8
	Vertical..... Z				10.0	56.3	-11.0	80.5
	Resultant..... R				22.0	41.0	0.1	-5.2
2	Rear Frame Member							
	Longitudinal... X	386	-660	-660	2.4	138.6	-24.0	39.9
	Lateral..... Y				4.7	19.8	-1.8	67.9

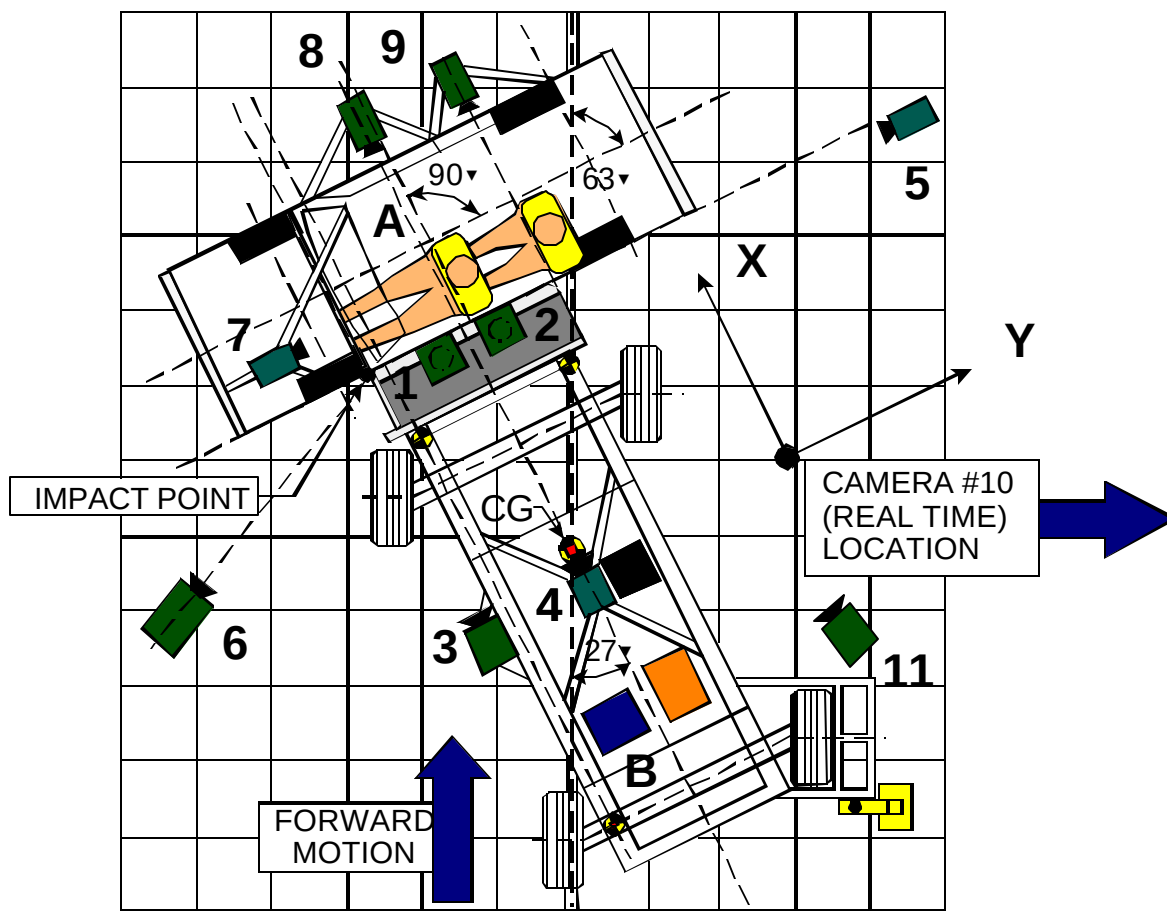
*Reference: X = Rear Bumper (+ Forward)
Y = Vehicle Centerline (+ To Right)
Z = Ground Level (+ Down)
All measurements accurate to within ± 3 mm.

DATA SHEET 15

HIGH SPEED CAMERA LOCATIONS AND DATA SUMMARY

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No. C50300



Camera No.	View	Coordinates (millimeters)			Angle (deg.)	Lens (mm)	Film Speed (fps)
		X*	Y*	Z*			
1	Overhead view of test vehicle	210	840	-4880	-90	8	1000
2	Overhead closeup view of impact plane	340	880	-4880	-90	12.5	1010
3	MDB onboard closeup view of impact point	-1470	0	-847	0	13	1005
4	MDB onboard view of driver dummy	-1140	838	-1586	-17	7.5	1015
5	Right side ground level overall view	890	9015	-1045	-3	25	990
6	Left side ground level overall view	-1741	-1662	-1076	-8	13	1015
7	Test vehicle onboard driver front view	570	-485	-1265	-11	13	1010
8	Test vehicle onboard driver side view	1890	990	-1105	-10	8	980
9	Test vehicle onboard passenger side view	1850	1900	-1135	-11	8	1020
10	Real time film coverage of test	-	-	-	-	-	24

* 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

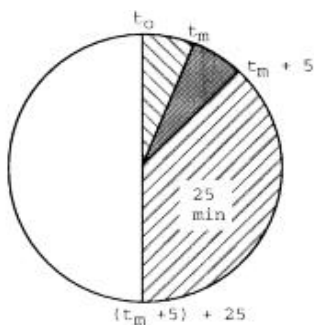
FMVSS 301 FUEL SYSTEM INTEGRITY DATA

NHTSA No.: C50300 TEST DATE: May 6, 2004
Vehicle Mfgr./Make/Model: DaimlerChrysler Corporation 2005 Chrysler 300 4-Door Sedan

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:

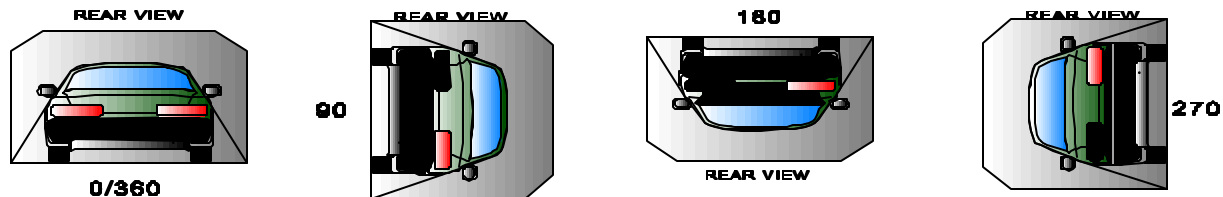
None

DATA SHEET 17

ROLLOVER DATA

Vehicle: 2005 Chrysler 300 4-Door Sedan

NHTSA No.: C50300



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	12	seconds	5	minutes	6	minutes	12	seconds	7	minutes
90° - 180°	1	minutes	8	seconds	5	minutes	6	minutes	8	seconds	7	minutes
180°-270°	1	minutes	3	seconds	5	minutes	6	minutes	3	seconds	7	minutes
270°-360°	1	minutes	9	seconds	5	minutes	6	minutes	9	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

APPENDIX A

PHOTOGRAPHS

TABLE OF PHOTOGRAPHS

<u>Figure</u>	<u>Photograph Title</u>	<u>Page</u>
Figure A- 1	PRE-TEST FRONTAL VIEW OF TEST VEHICLE	A- 3
Figure A- 2	POST-TEST FRONTAL VIEW OF TEST VEHICLE	A- 4
Figure A- 3	PRE-TEST REAR VIEW OF TEST VEHICLE	A- 5
Figure A- 4	POST-TEST REAR VIEW OF TEST VEHICLE	A- 6
Figure A- 5	PRE-TEST IMPACTED SIDE VIEW OF TEST VEHICLE	A- 7
Figure A- 6	POST-TEST IMPACTED SIDE VIEW OF TEST VEHICLE	A- 8
Figure A- 7	PRE-TEST LEFT FRONT VIEW OF TEST VEHICLE	A- 9
Figure A- 8	POST-TEST LEFT FRONT VIEW OF TEST VEHICLE	A- 10
Figure A- 9	PRE-TEST LEFT REAR VIEW OF TEST VEHICLE	A- 11
Figure A- 10	POST-TEST LEFT REAR VIEW OF TEST VEHICLE	A- 12
Figure A- 11	PRE-TEST RIGHT FRONT VIEW OF TEST VEHICLE	A- 13
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Figure A- 17	PRE-TEST LEFT SIDE VIEW OF IMPACTOR FACE	A- 19
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Figure A- 20	POST-TEST RIGHT SIDE VIEW OF IMPACTOR FACE	A- 22
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Figure A- 29	PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID H3	A- 31
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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-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

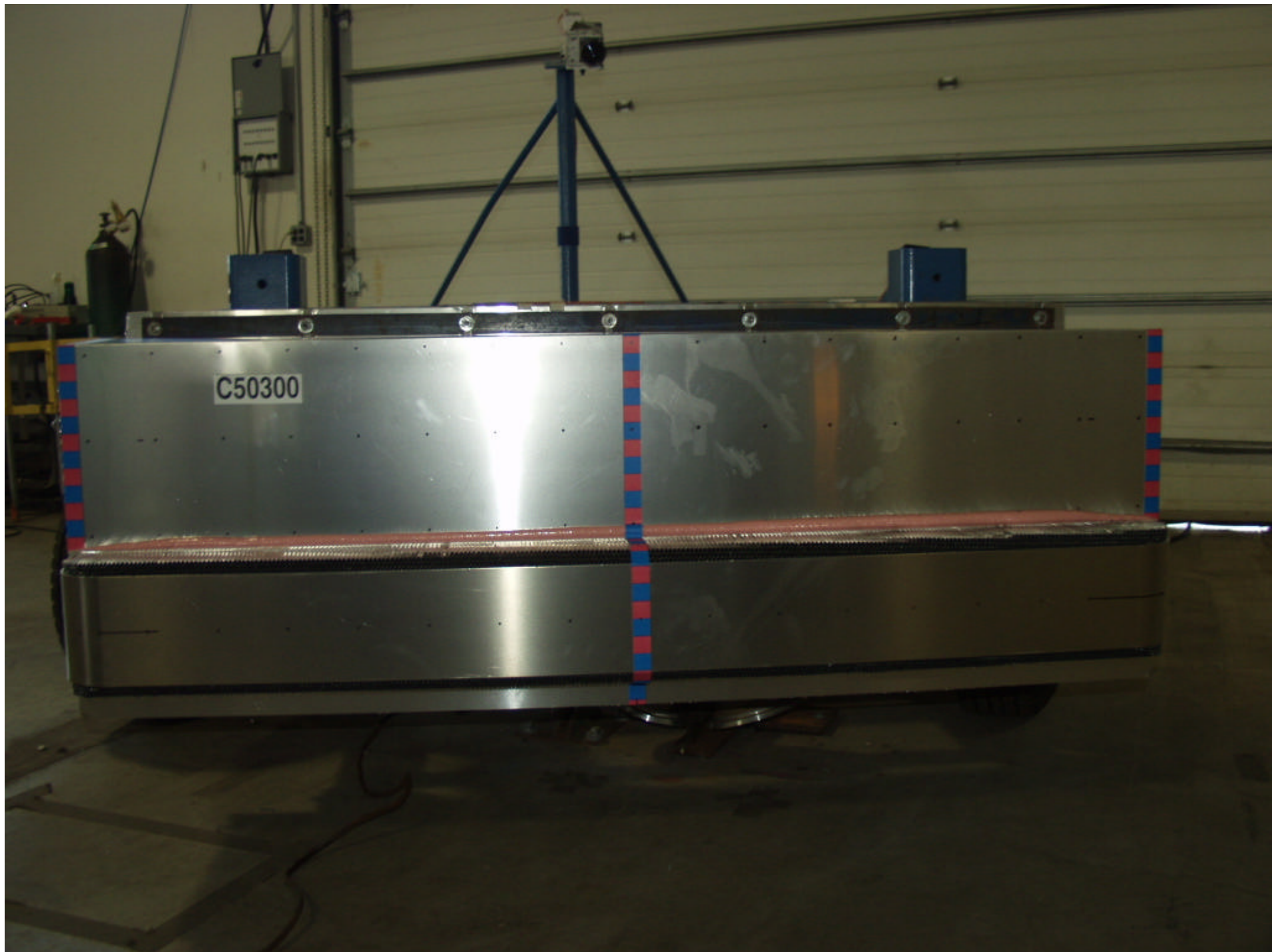


Figure A-15 PRE-TEST FRONTAL VIEW OF IMPACTOR FACE



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

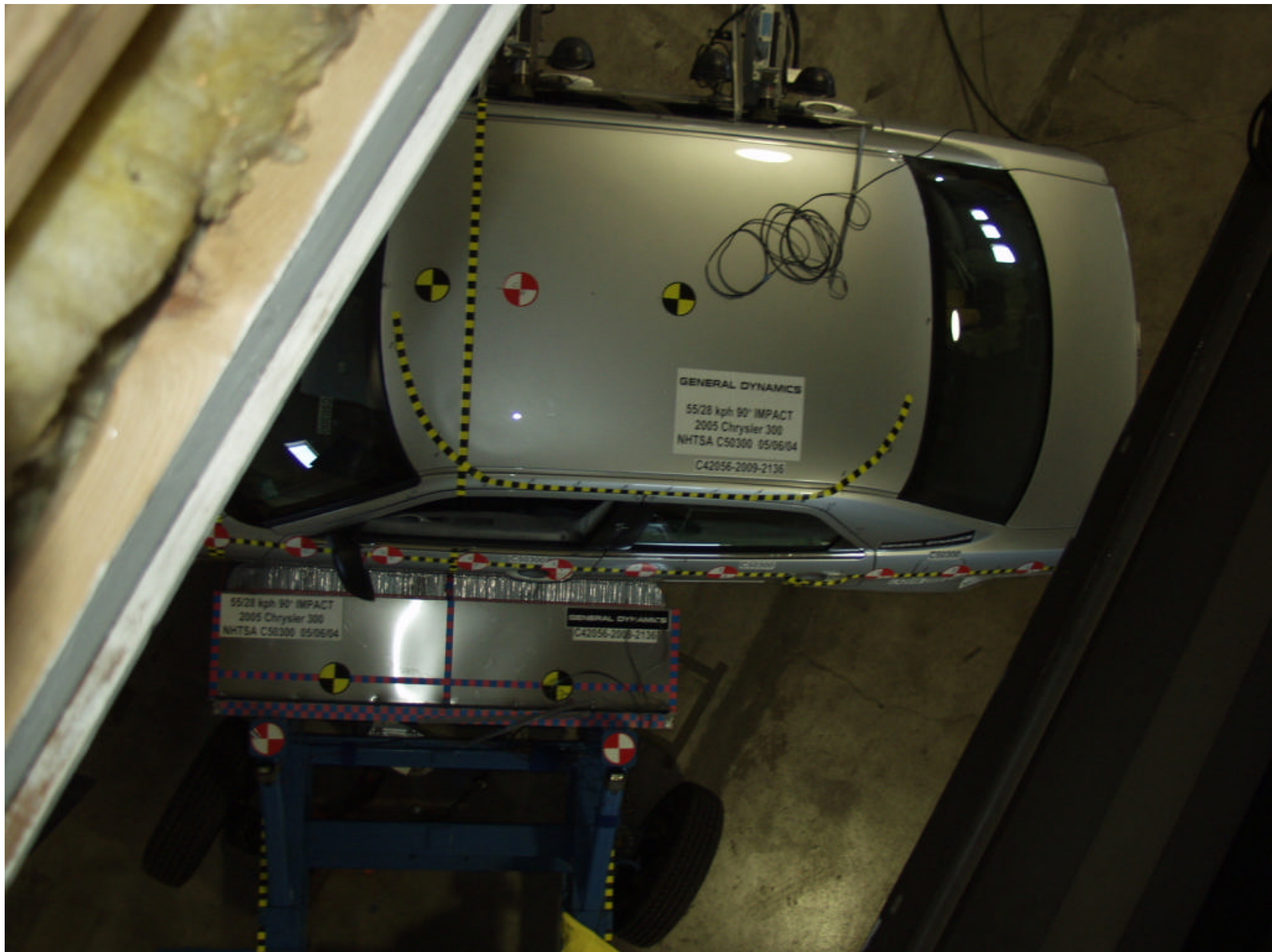


Figure A-23 PRE-TEST OVERHEAD VIEW OF ALIGNED MDB AND VEHICLE

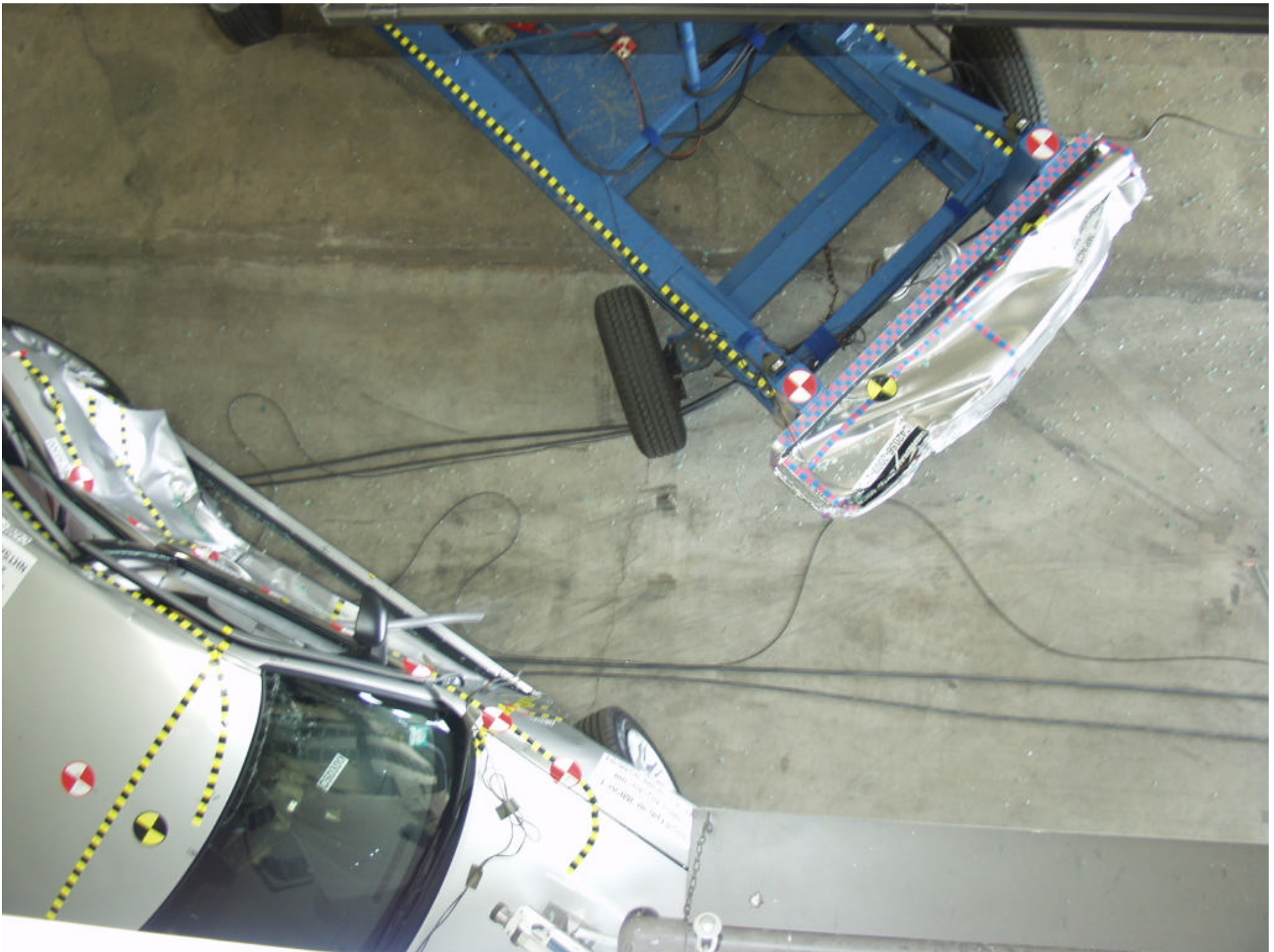


Figure A-24 POST-TEST OVERHEAD VIEW OF MDB AND VEHICLE



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 H3



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

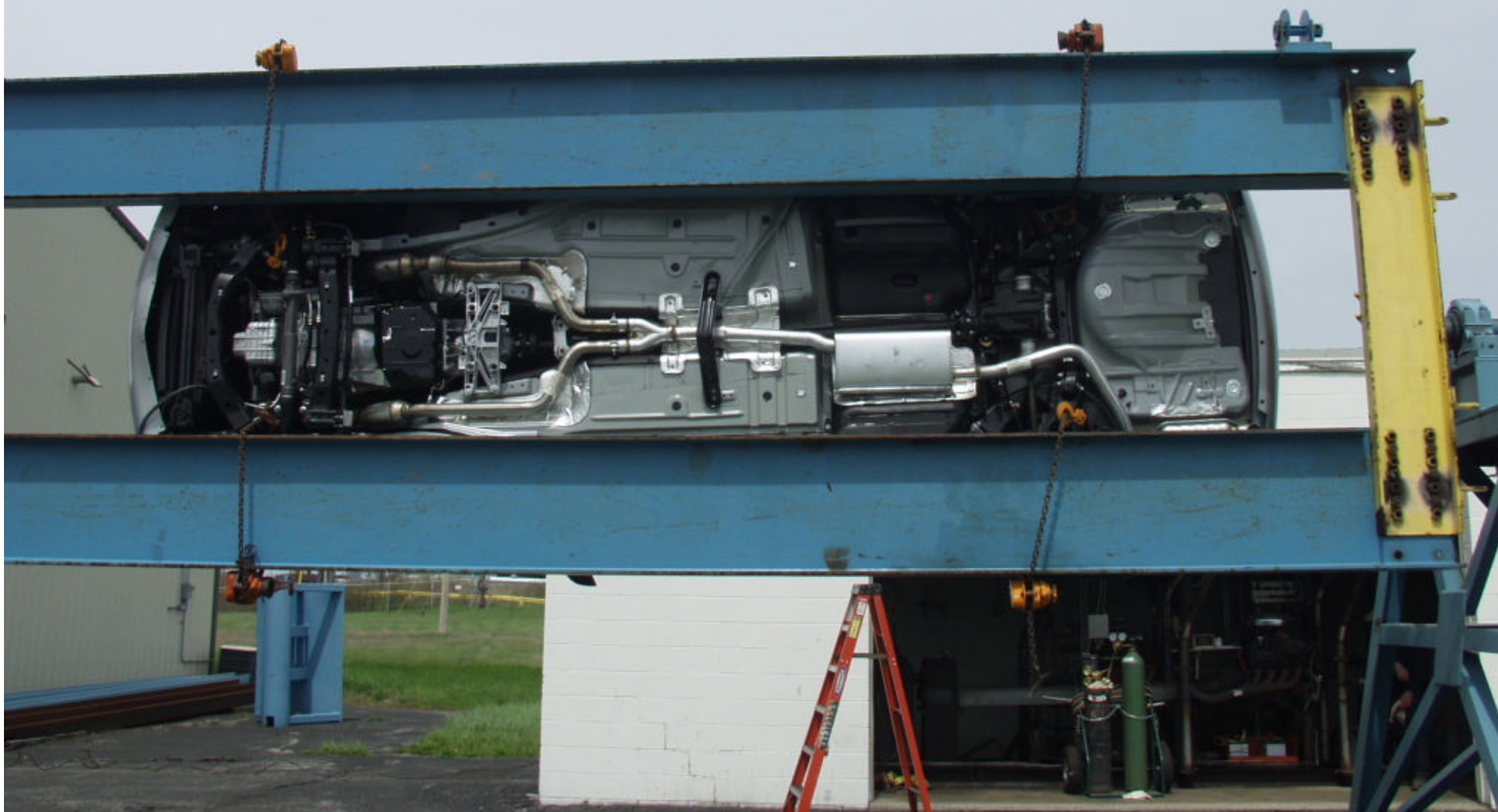


Figure A-45 ROLLOVER 270 DEGREES



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	PASSENGER UPPER NECK (X) FORCE VS TIME	B- 36
32	PASSENGER UPPER NECK (Y) FORCE VS TIME	B- 37
33	PASSENGER UPPER NECK (Z) FORCE VS TIME	B- 38
34	PASSENGER UPPER NECK RESULTANT FORCE VS TIME	B- 39
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36	PASSENGER UPPER NECK (Y) MOMENT VS TIME	B- 41
37	PASSENGER UPPER NECK (Z) MOMENT VS TIME	B- 42
38	PASSENGER 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>
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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	RIGHT REAR OCCUPANT COMPARTMENT (Y) ACCELERATION VS TIME	B- 85
81	RIGHT REAR OCCUPANT COMPARTMENT (Y) VELOCITY VS TIME	B- 86
82	LOWER B-POST (Y) ACCELERATION VS TIME	B- 87
83	LOWER B-POST (Y) VELOCITY VS TIME	B- 88
84	UPPER B-POST (Y) ACCELERATION VS TIME	B- 89
85	UPPER B-POST (Y) VELOCITY VS TIME	B- 90
86	LOWER A-POST (Y) ACCELERATION VS TIME	B- 91
87	LOWER A-POST (Y) VELOCITY VS TIME	B- 92
88	UPPER A-POST (Y) ACCELERATION VS TIME	B- 93
89	UPPER A-POST (Y) VELOCITY VS TIME	B- 94
90	FRONT SEAT TRACK (Y) ACCELERATION VS TIME	B- 95
91	FRONT SEAT TRACK (Y) VELOCITY VS TIME	B- 96
92	REAR SEAT TRACK (Y) ACCELERATION VS TIME	B- 97
93	REAR SEAT TRACK (Y) VELOCITY VS TIME	B- 98

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>
94	VEHICLE CENTER OF GRAVITY (X) ACCELERATION VS TIME	B- 99
95	VEHICLE CENTER OF GRAVITY (X) VELOCITY VS TIME	B- 100
96	VEHICLE CENTER OF GRAVITY (Y) ACCELERATION VS TIME	B- 101
97	VEHICLE CENTER OF GRAVITY (Y) VELOCITY ACCELERATION VS TIME	B- 102
98	VEHICLE CENTER OF GRAVITY (Z) ACCELERATION VS TIME	B- 103
99	VEHICLE CENTER OF GRAVITY (Z) VELOCITY VS TIME	B- 104
100	VEHICLE CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME	B- 105

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>
101	MDB CENTER OF GRAVITY (X) ACCELERATION VS TIME	B- 106
102	MDB CENTER OF GRAVITY (X) VELOCITY VS TIME	B- 107
103	MDB CENTER OF GRAVITY (Y) ACCELERATION VS TIME	B- 108
104	MDB CENTER OF GRAVITY (Y) VELOCITY VS TIME	B- 109
105	MDB CENTER OF GRAVITY (Z) ACCELERATION VS TIME	B- 110
106	MDB CENTER OF GRAVITY (Z) VELOCITY VS TIME	B- 111
107	MDB CENTER OF GRAVITY RESULTANT ACCELERATION VS TIME	B- 112
108	MDB REAR (X) ACCELERATION VS TIME	B- 113
109	MDB REAR (X) VELOCITY VS TIME	B- 114
110	MDB REAR (Y) ACCELERATION VS TIME	B- 115
111	MDB REAR (Y) VELOCITY VS TIME	B- 116

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>
112	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 117
113	DRIVER UPPER RIB (Y) VELOCITY VS TIME	B- 118
114	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 119
115	DRIVER LOWER RIB (Y) VELOCITY VS TIME	B- 120
116	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 121
117	DRIVER LOWER SPINE (Y) VELOCITY VS TIME	B- 122
118	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 123
119	DRIVER PELVIC (Y) VELOCITY VS TIME	B- 124
120	PASSENGER UPPER RIB (Y) ACCELERATION VS TIME	B- 125
121	PASSENGER UPPER RIB (Y) VELOCITY VS TIME	B- 126
122	PASSENGER LOWER RIB (Y) ACCELERATION VS TIME	B- 127
123	PASSENGER LOWER RIB (Y) VELOCITY VS TIME	B- 128
124	PASSENGER LOWER SPINE (Y) ACCELERATION VS TIME	B- 129
125	PASSENGER LOWER SPINE (Y) VELOCITY VS TIME	B- 130
126	PASSENGER PELVIC (Y) ACCELERATION VS TIME	B- 131
127	PASSENGER PELVIC (Y) VELOCITY VS TIME	B- 132

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

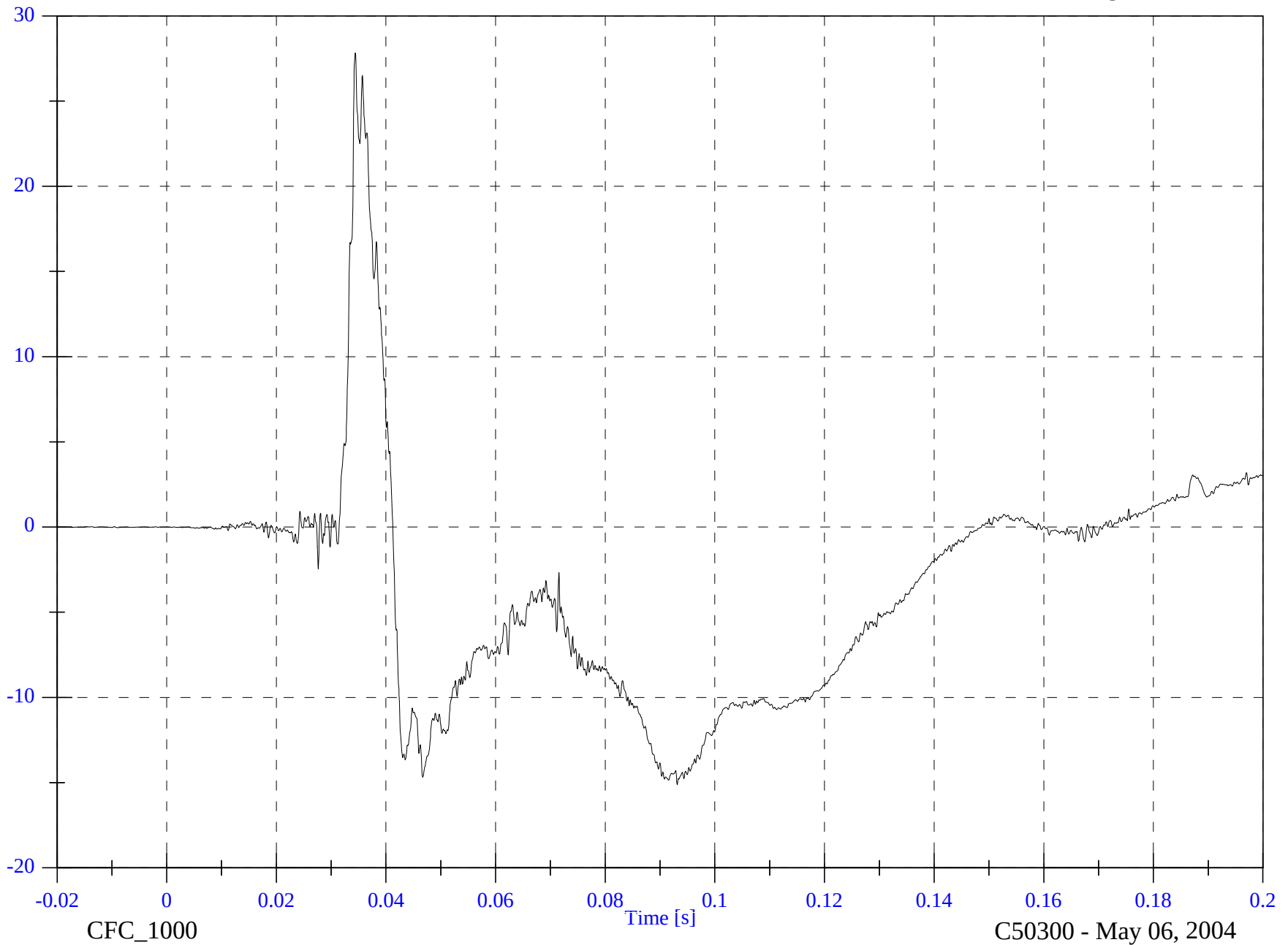
<u>Plot No.</u>	<u>Data Plot Title</u>	<u>Page</u>
128	DRIVER UPPER RIB (Y) ACCELERATION VS TIME	B- 133
129	DRIVER LOWER RIB (Y) ACCELERATION VS TIME	B- 134
130	DRIVER LOWER SPINE (Y) ACCELERATION VS TIME	B- 135
131	DRIVER PELVIC (Y) ACCELERATION VS TIME	B- 136
132	PASSENGER UPPER RIB (Y) ACCELERATION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

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Head x

Max: 27.8 [g] at 0.034 [s]

Min: -15.1 [g] at 0.093 [s]



B-6

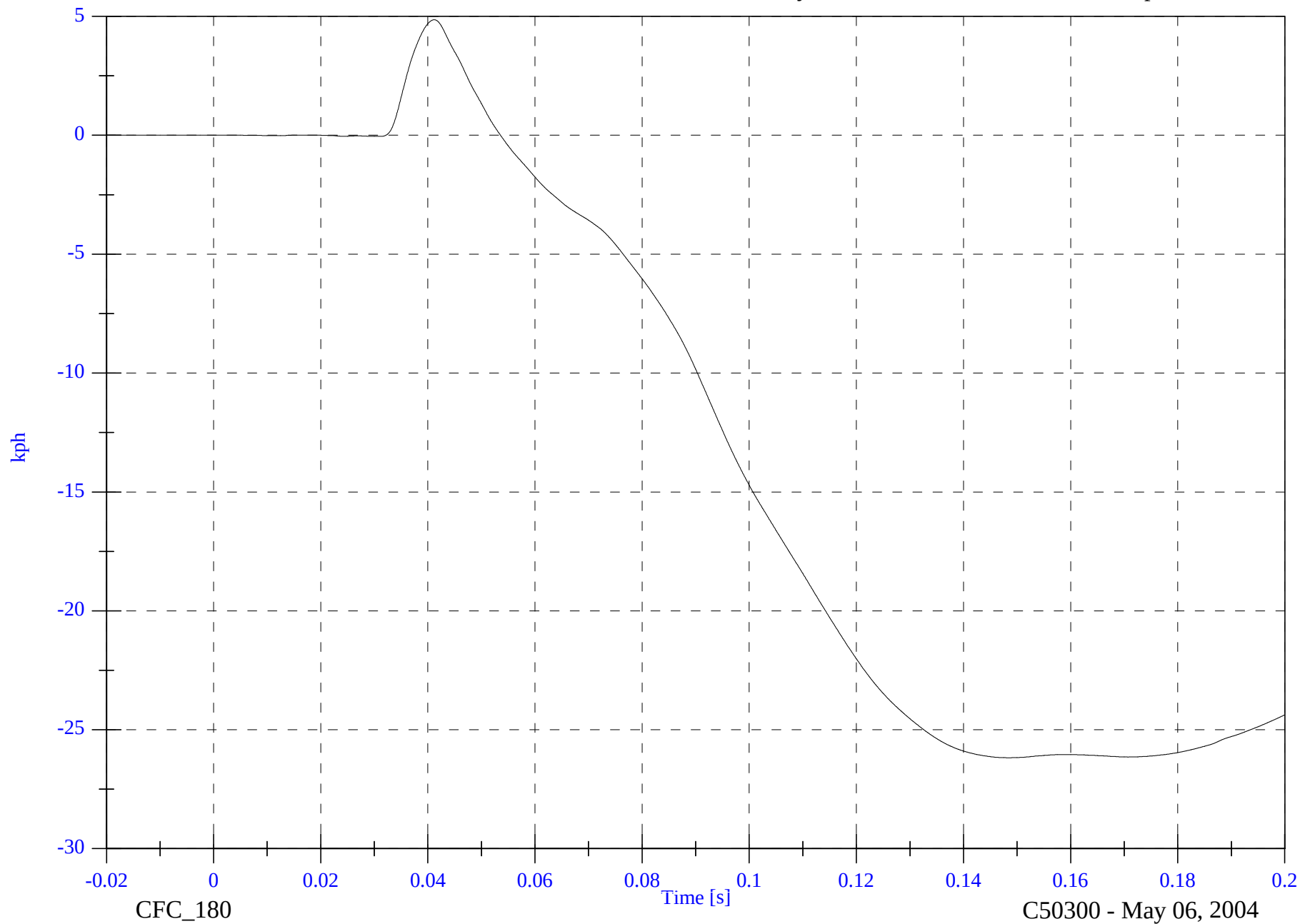
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Head x Velocity

Max: 4.9 [kph] at 0.041 [s]

Min: -26.2 [kph] at 0.148 [s]



B-7

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

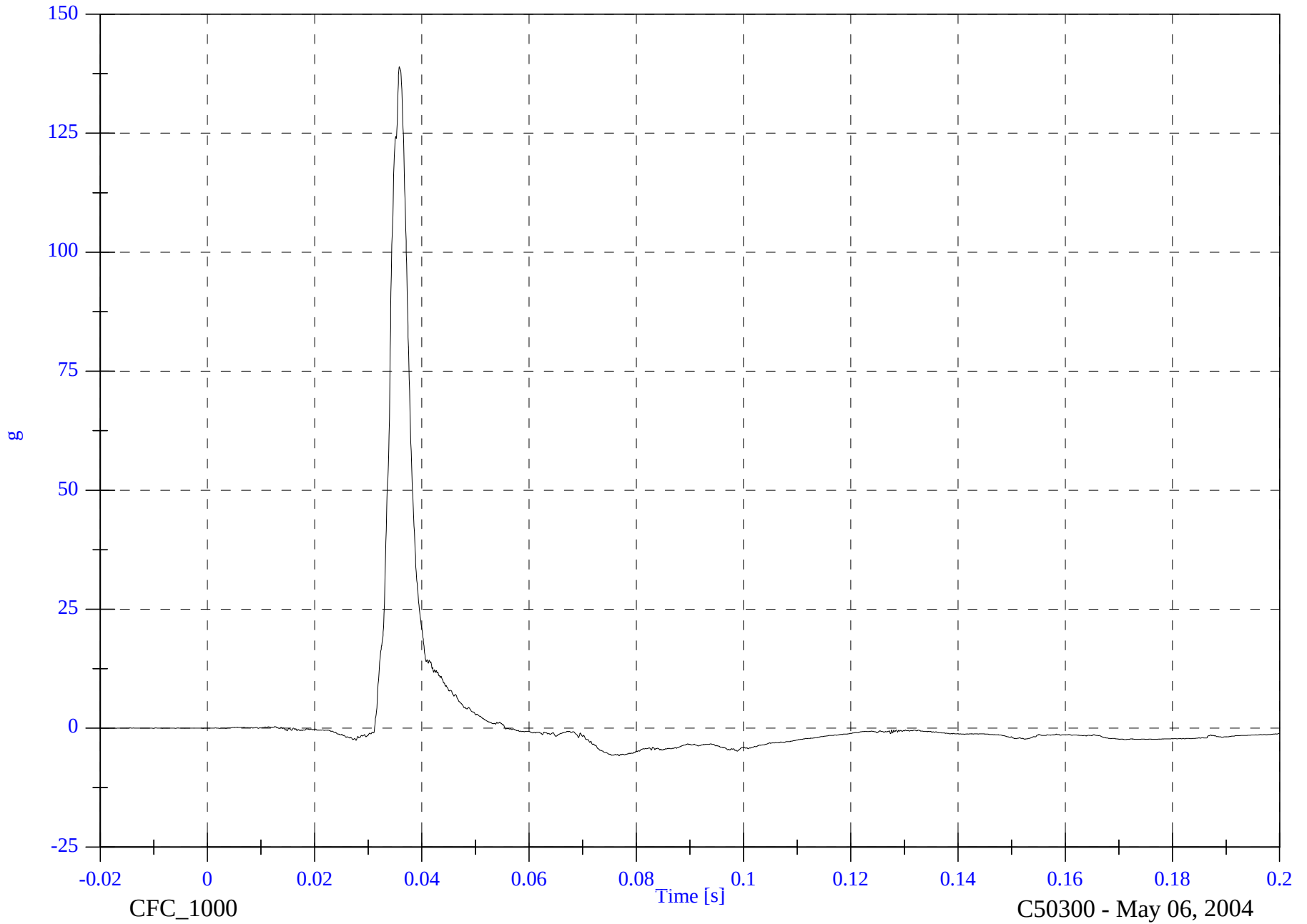
V2P1 Head y

Max: 138.9 [g] at 0.036 [s]

Min: -5.8 [g] at 0.077 [s]

B-8

8675-F214-19

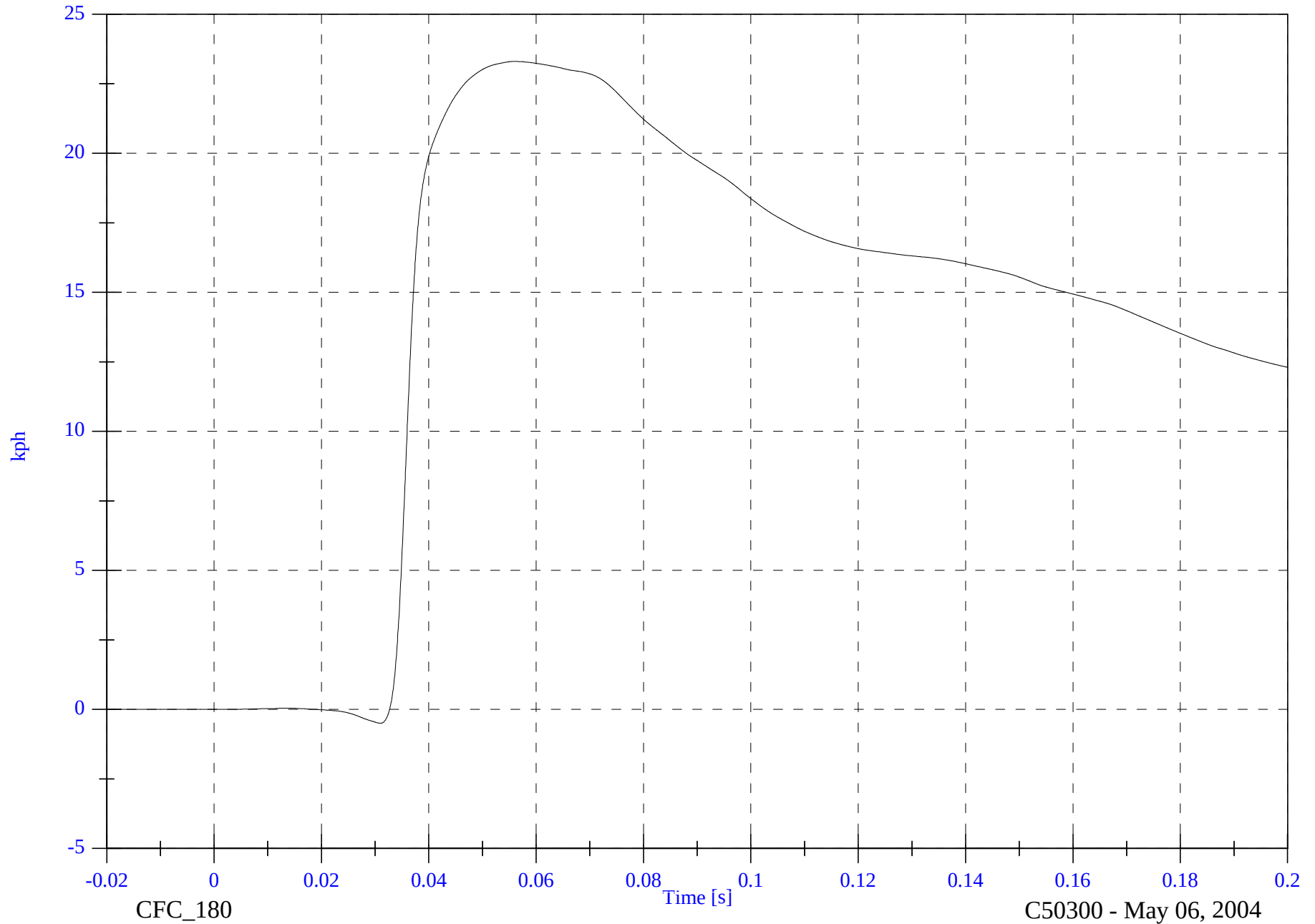


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Head y Velocity

Max: 23.3 [kph] at 0.056 [s]

Min: -0.5 [kph] at 0.031 [s]



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8675-F214-19

CFC_180

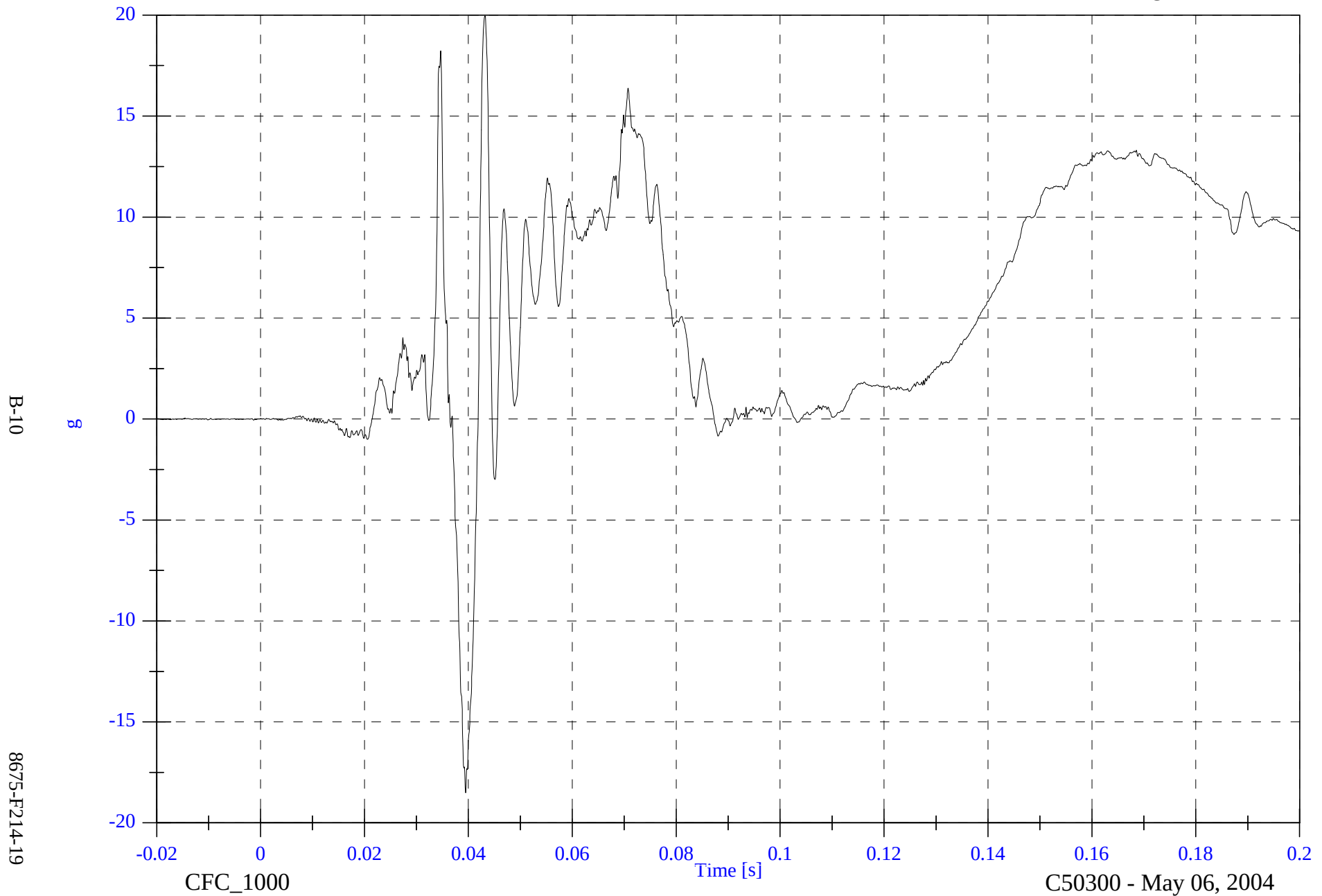
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Head z

Max: 20.0 [g] at 0.043 [s]

Min: -18.5 [g] at 0.039 [s]

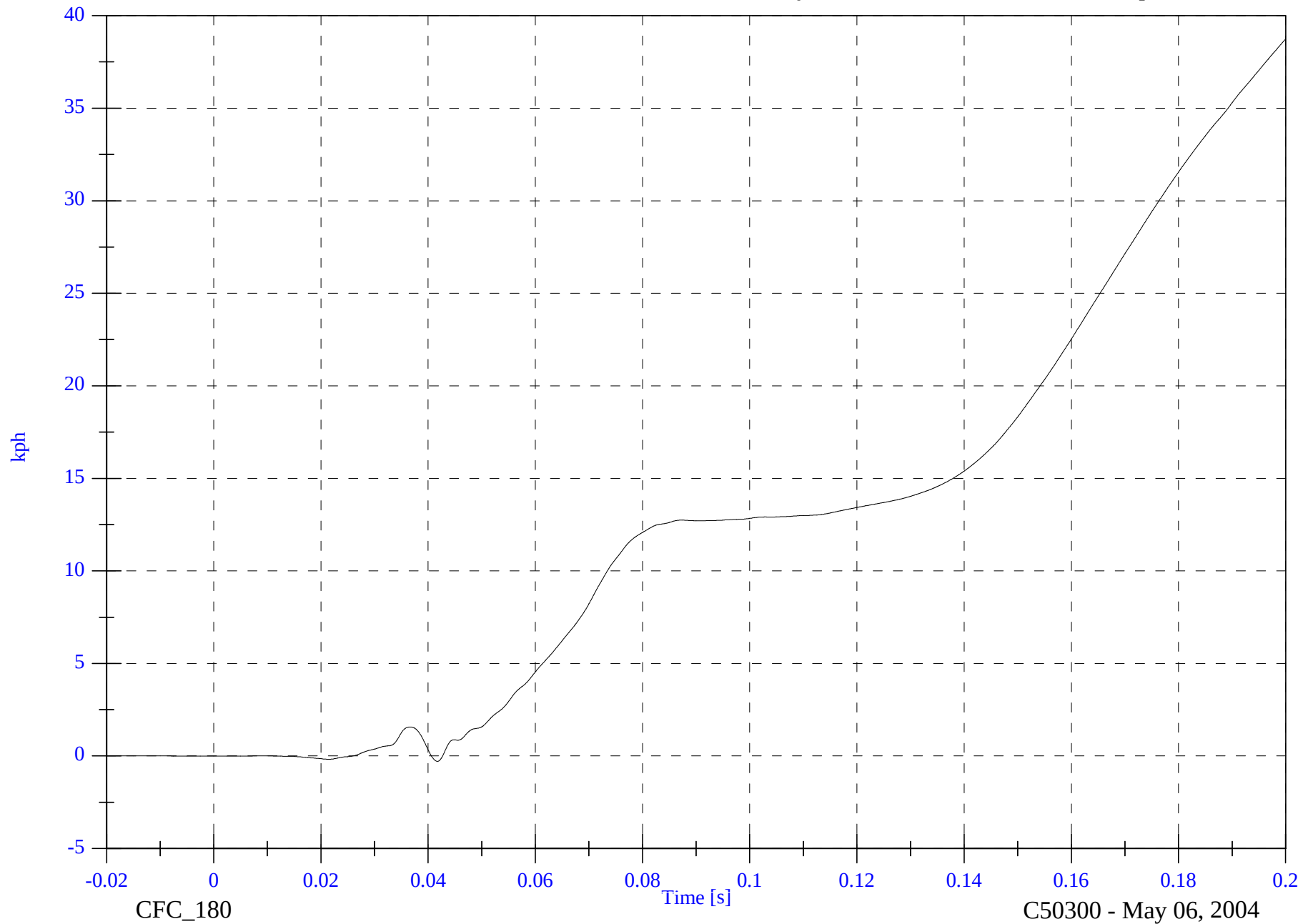


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Head z Velocity

Max: 38.7 [kph] at 0.200 [s]

Min: -0.3 [kph] at 0.042 [s]



B-11

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

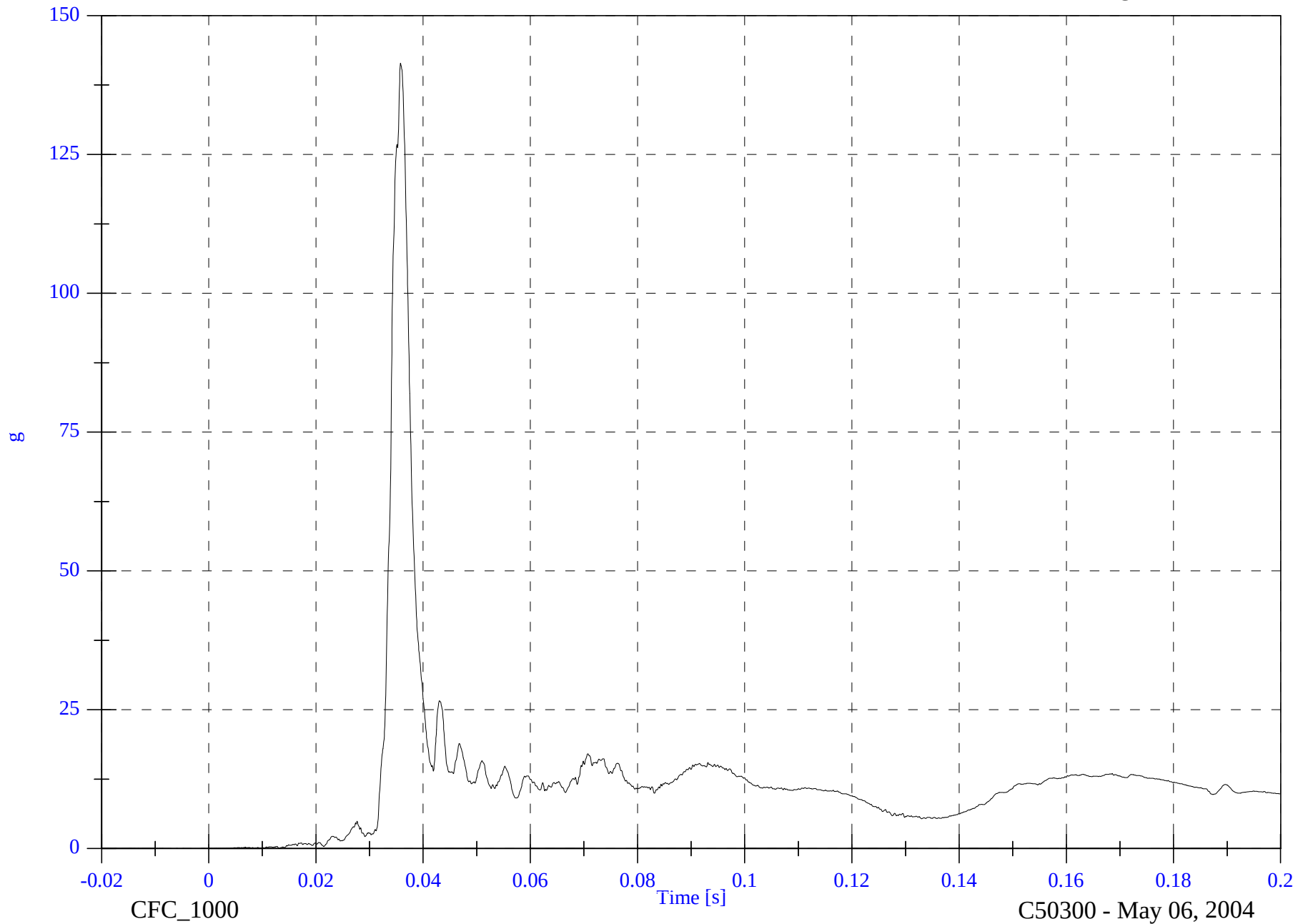
V2P1 Head Resultant

Max: 141.4 [g] at 0.036 [s]

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

B-12

8675-F214-19

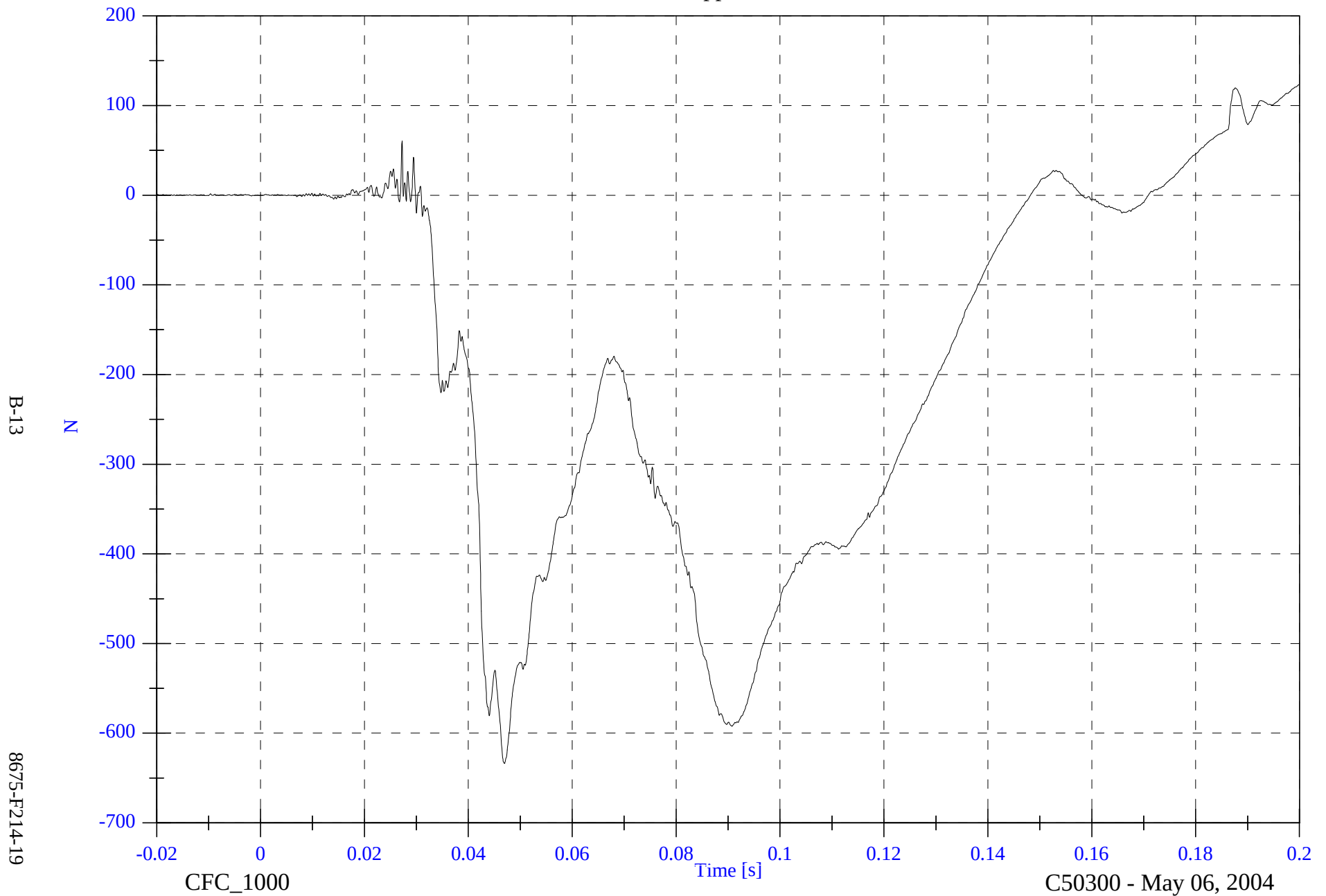


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Neck Fx

Max: 123.1 [N] at 0.200 [s]

Min: -633.8 [N] at 0.047 [s]

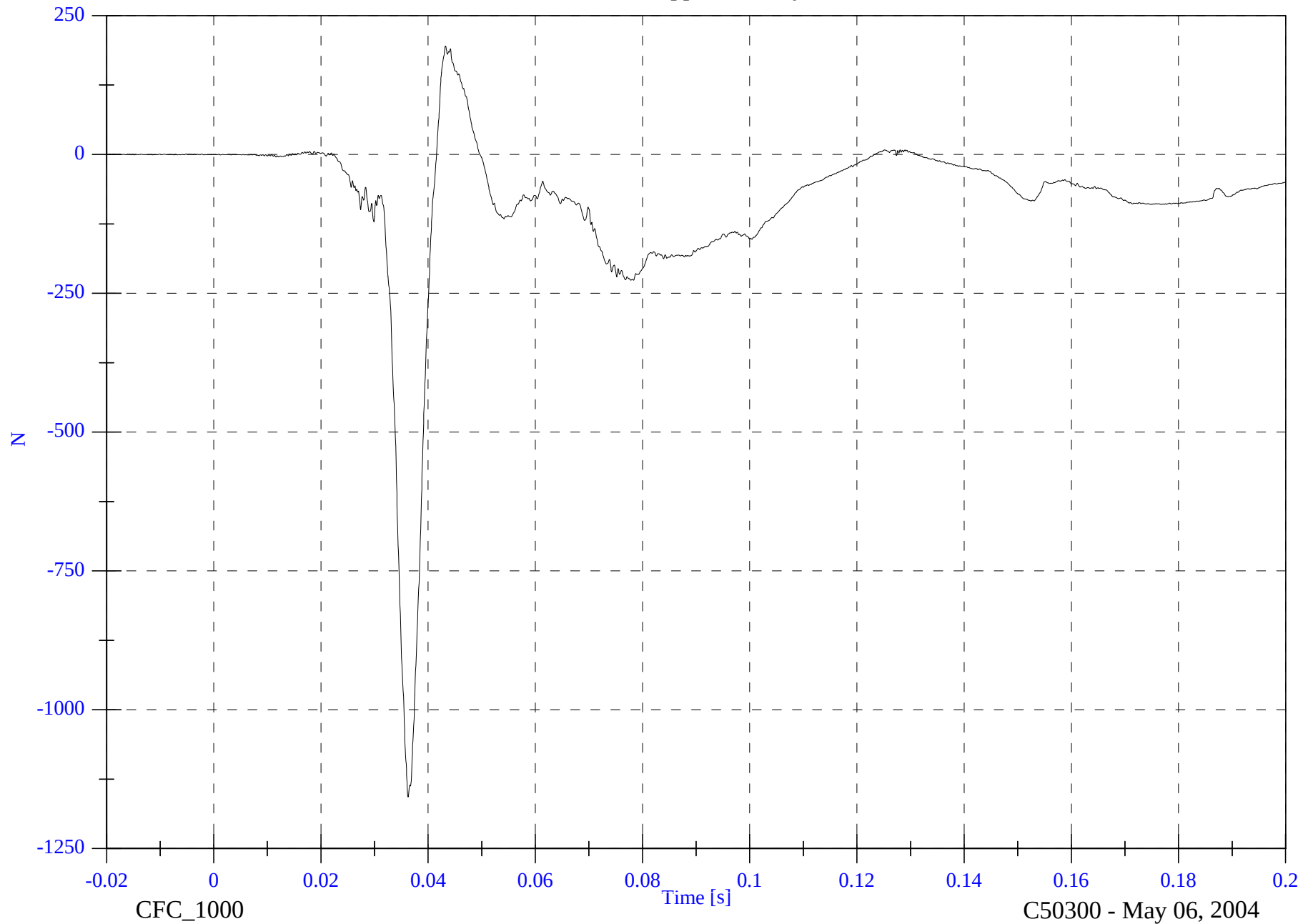


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Neck Fy

Max: 195.3 [N] at 0.043 [s]

Min: -1157.0 [N] at 0.036 [s]



B-14

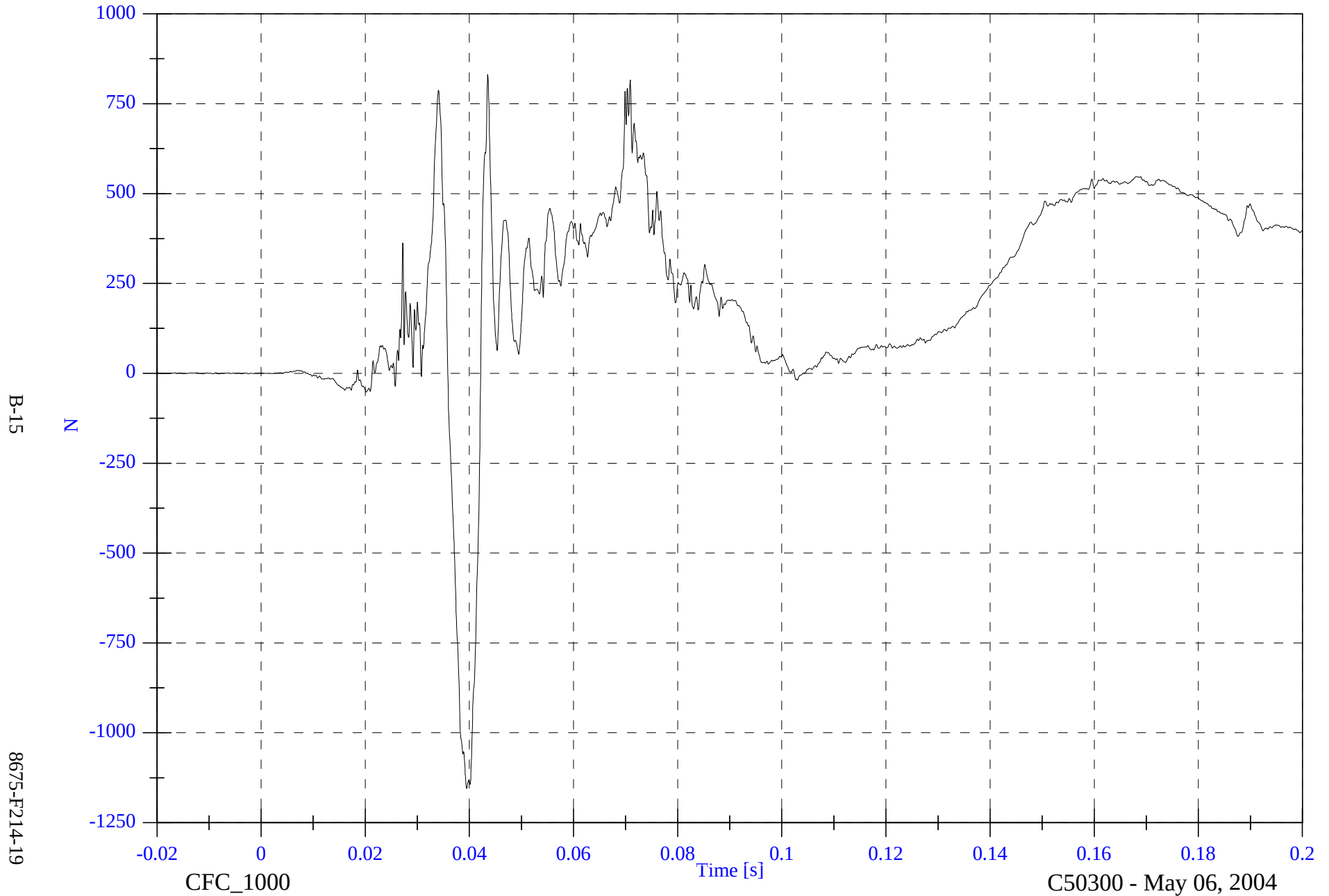
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Neck Fz

Max: 831.1 [N] at 0.043 [s]

Min: -1154.8 [N] at 0.039 [s]

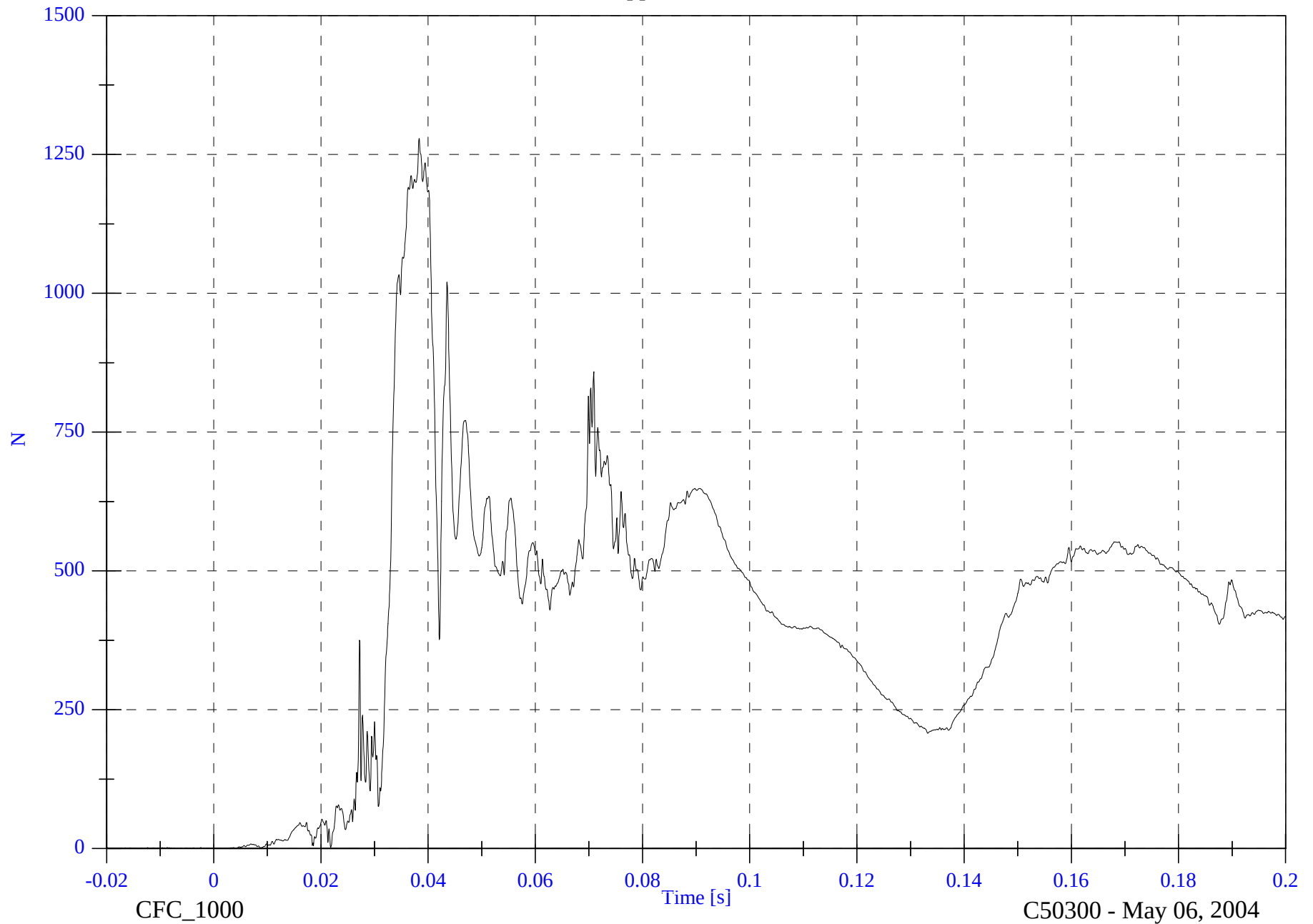


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Neck F Resultant

Max: 1279.0 [N] at 0.038 [s]

Min: 0.1 [N] at -0.012 [s]



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8675-F214-19

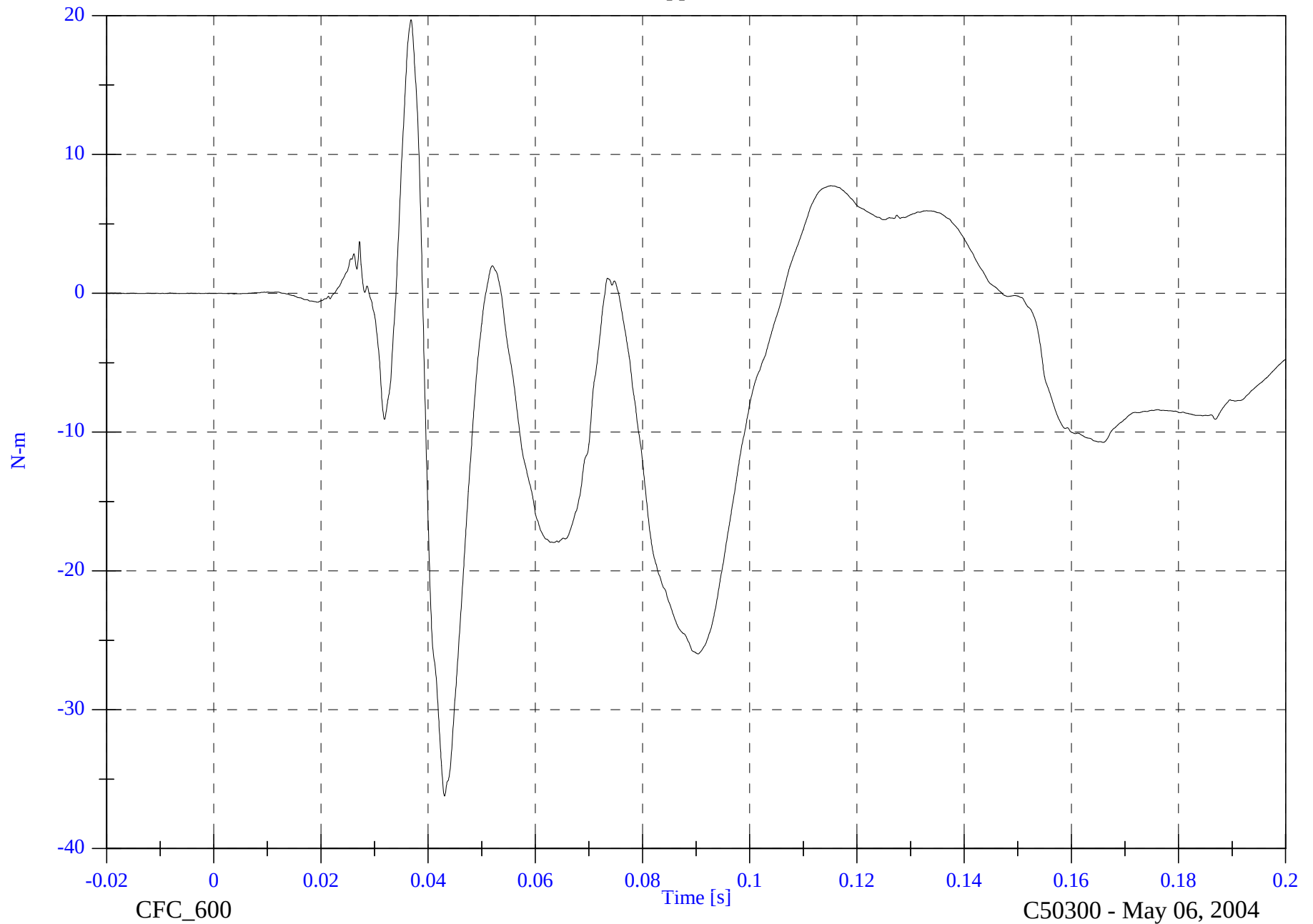
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Neck Mx

Max: 19.7 [N-m] at 0.037 [s]

Min: -36.2 [N-m] at 0.043 [s]



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8675-F214-19

CFC_600

C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Neck My

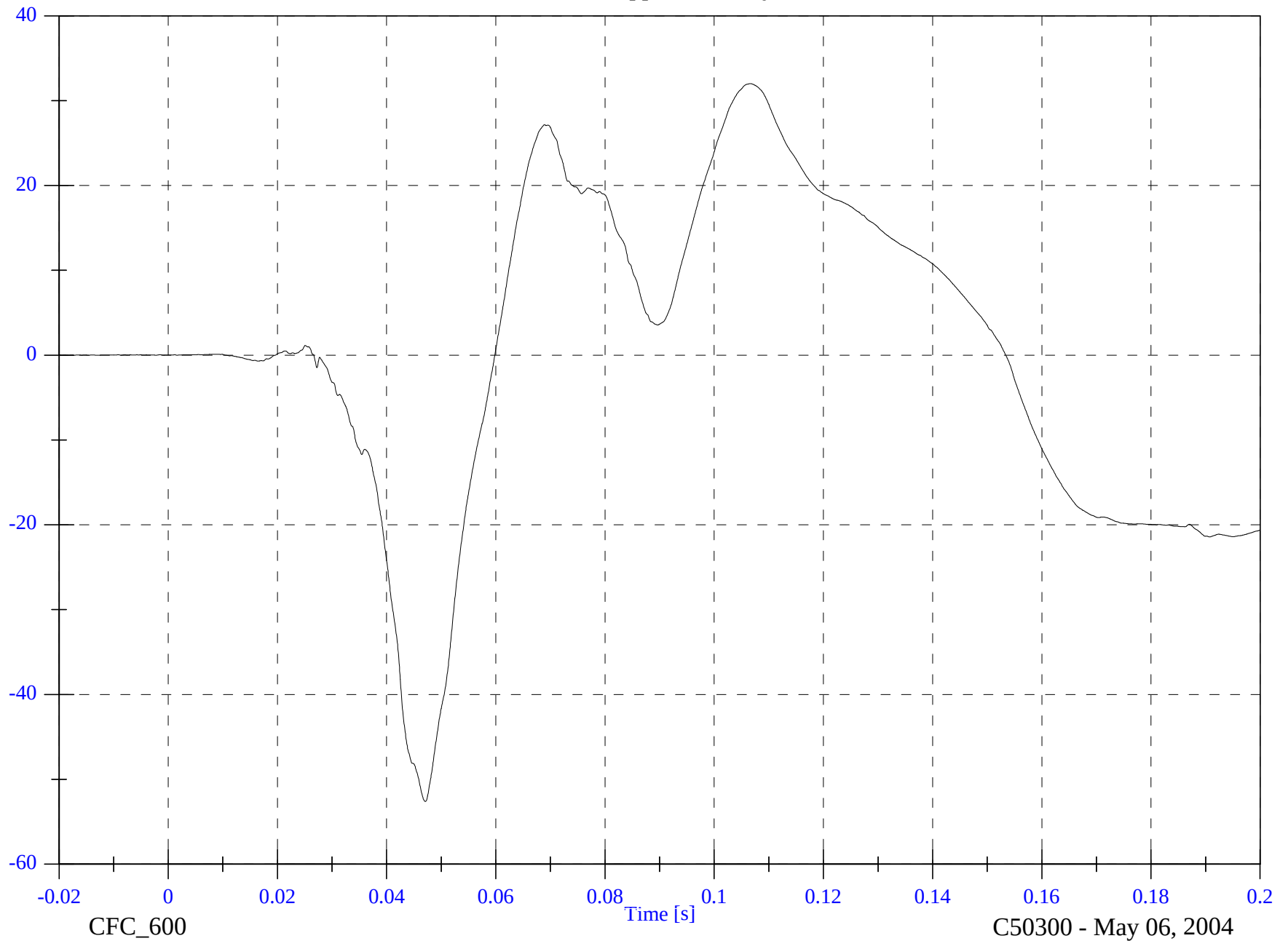
Max: 32.0 [N-m] at 0.107 [s]

Min: -52.6 [N-m] at 0.047 [s]

B-18

N-m

8675-F214-19

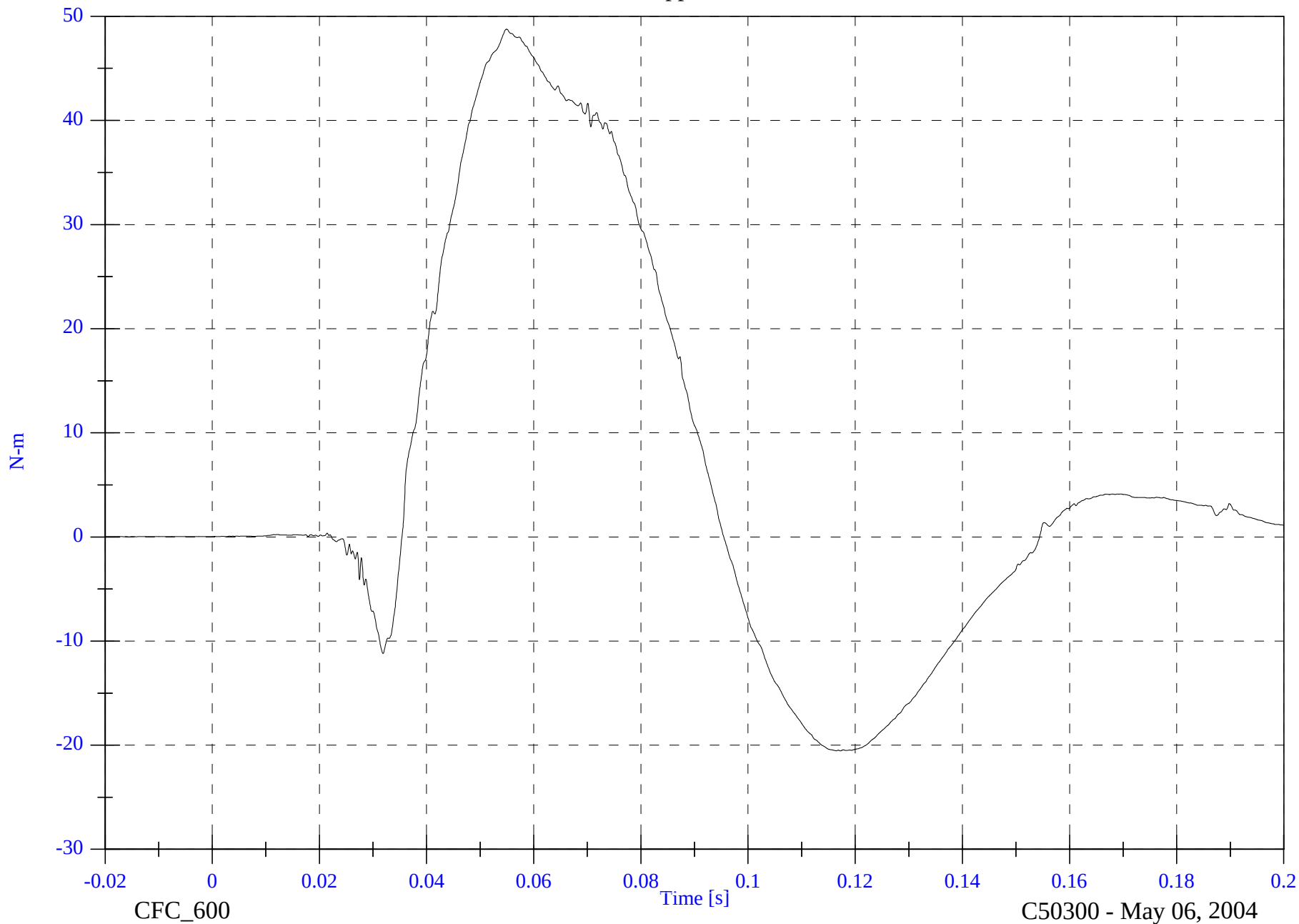


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Neck Mz

Max: 48.8 [N-m] at 0.055 [s]

Min: -20.5 [N-m] at 0.117 [s]



B-19

8675-F214-19

CFC_600

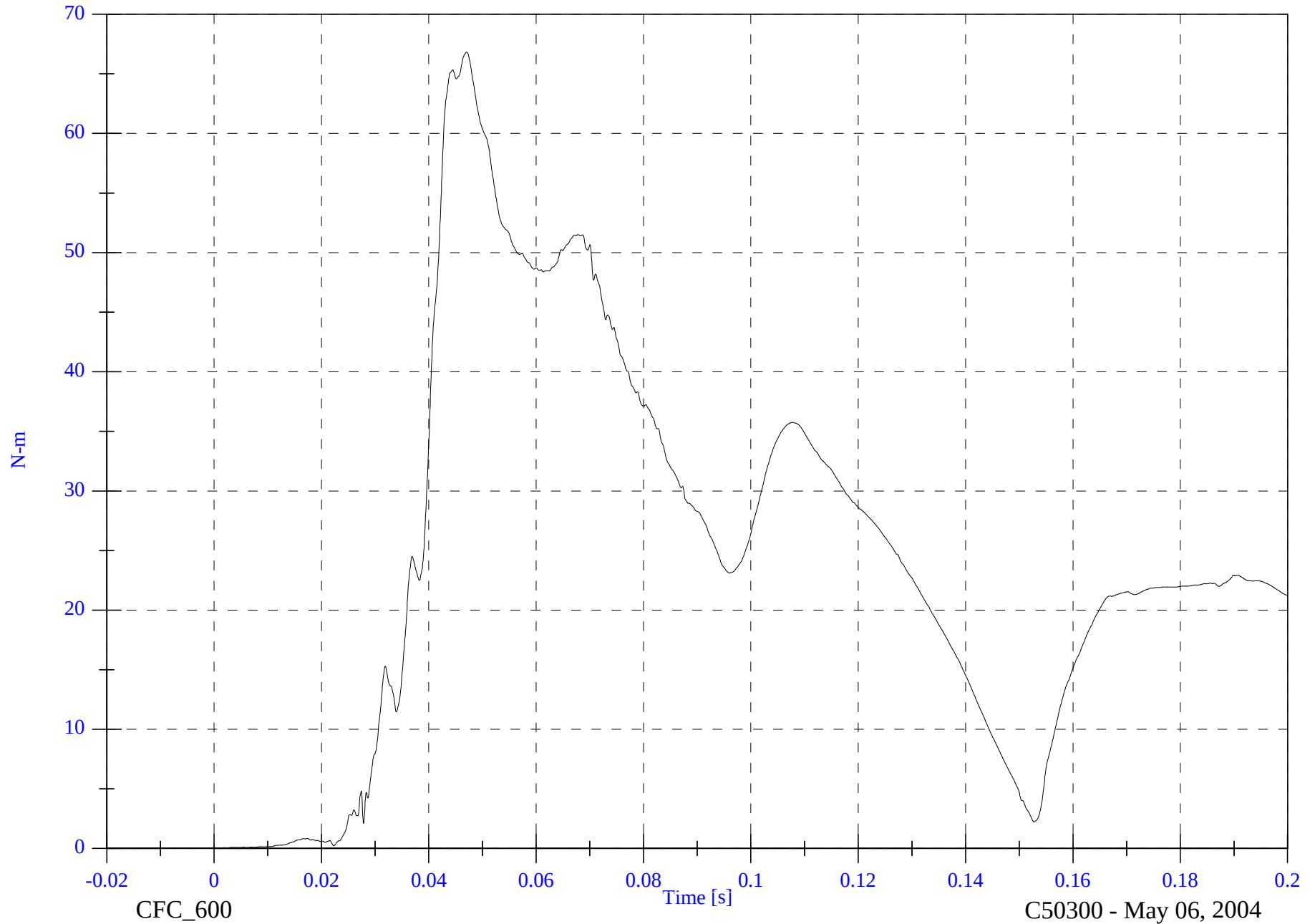
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Neck M Resultant

Max: 66.8 [N-m] at 0.047 [s]

Min: 0.0 [N-m] at -0.016 [s]



B-20

8675-F214-19

CFC_600

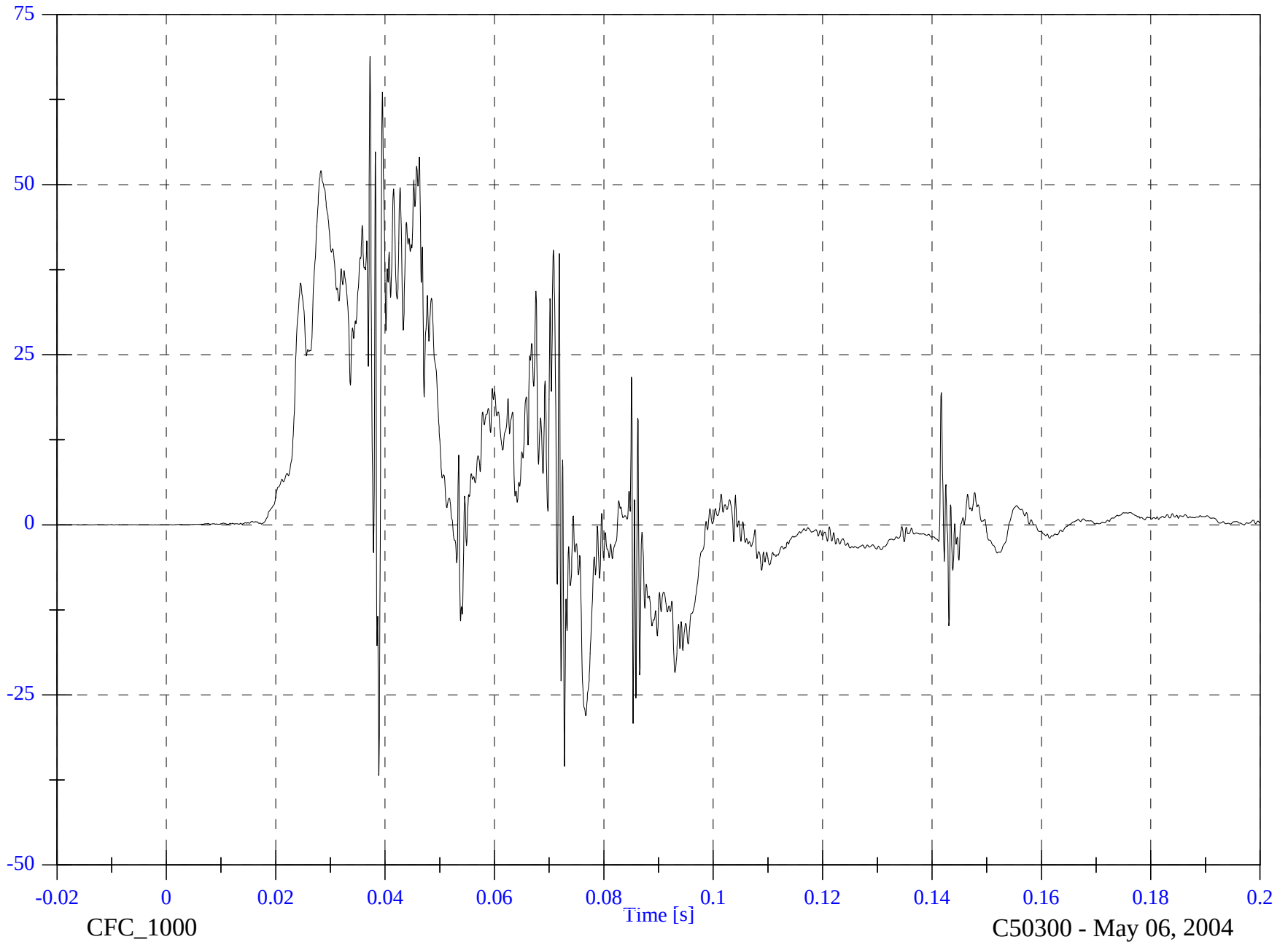
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Rib y

Max: 68.8 [g] at 0.037 [s]

Min: -36.8 [g] at 0.039 [s]



B-21

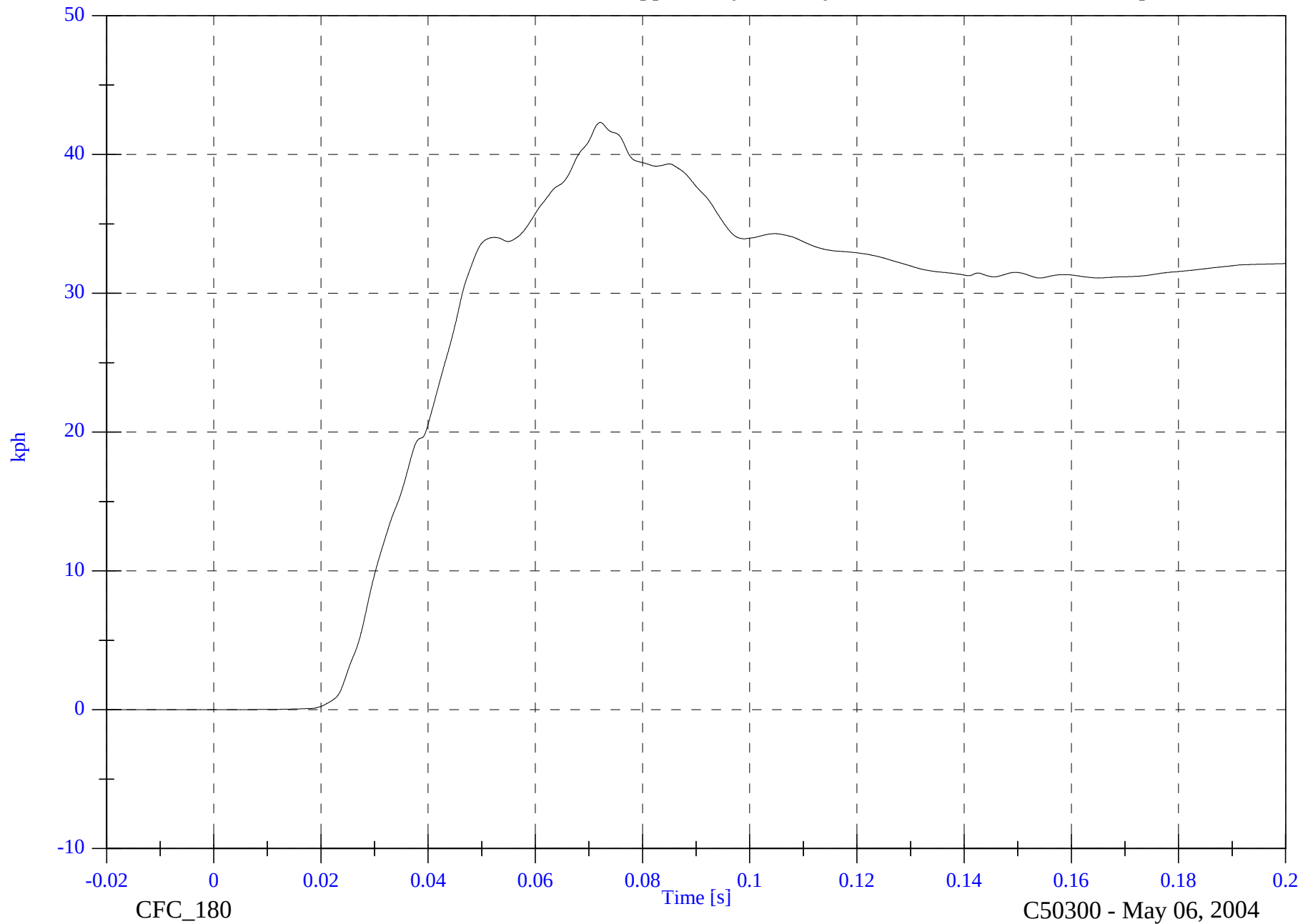
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Rib y Velocity

Max: 42.3 [kph] at 0.072 [s]

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



B-22

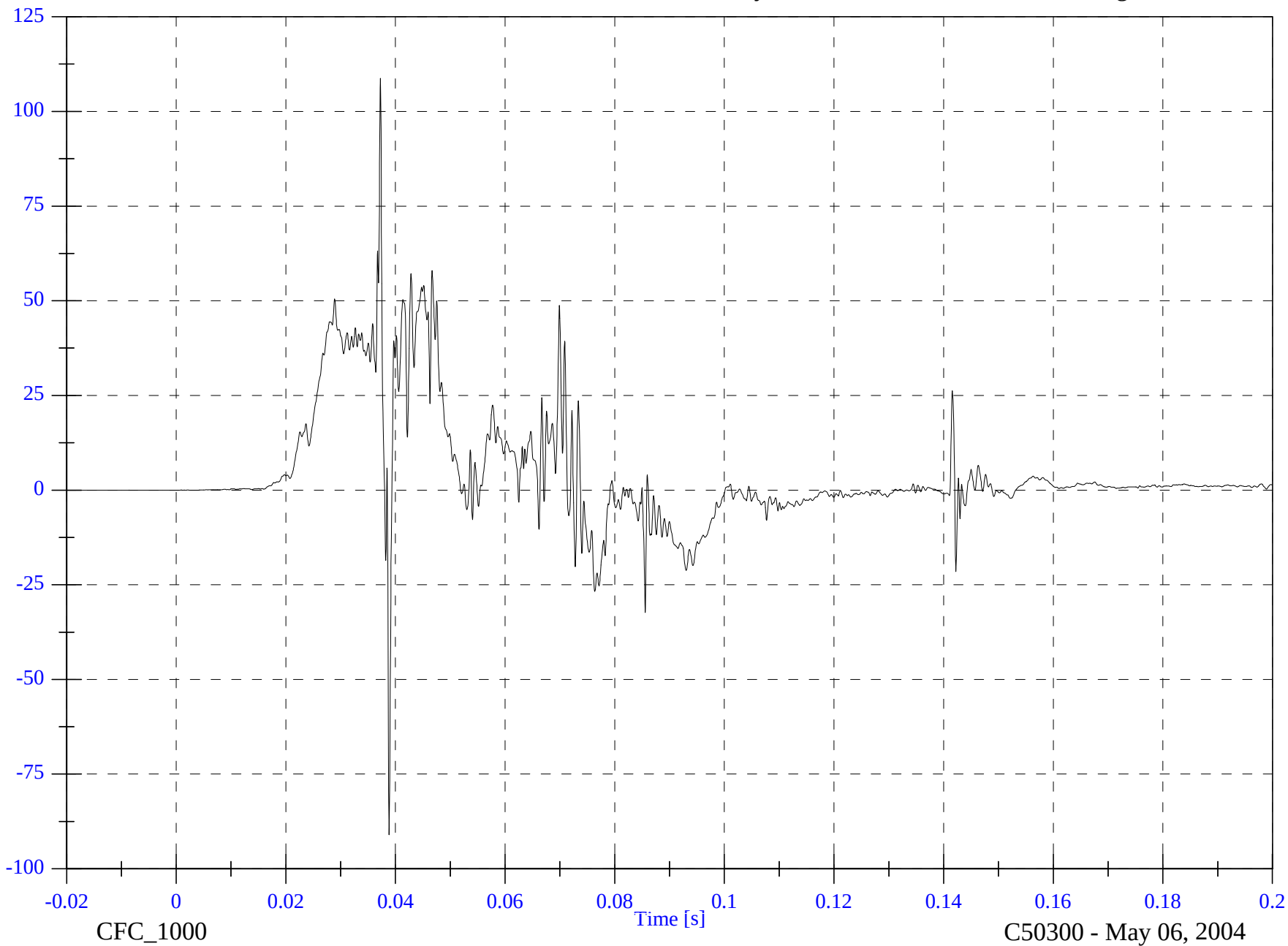
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Rib y

Max: 108.7 [g] at 0.037 [s]

Min: -91.0 [g] at 0.039 [s]



B-23

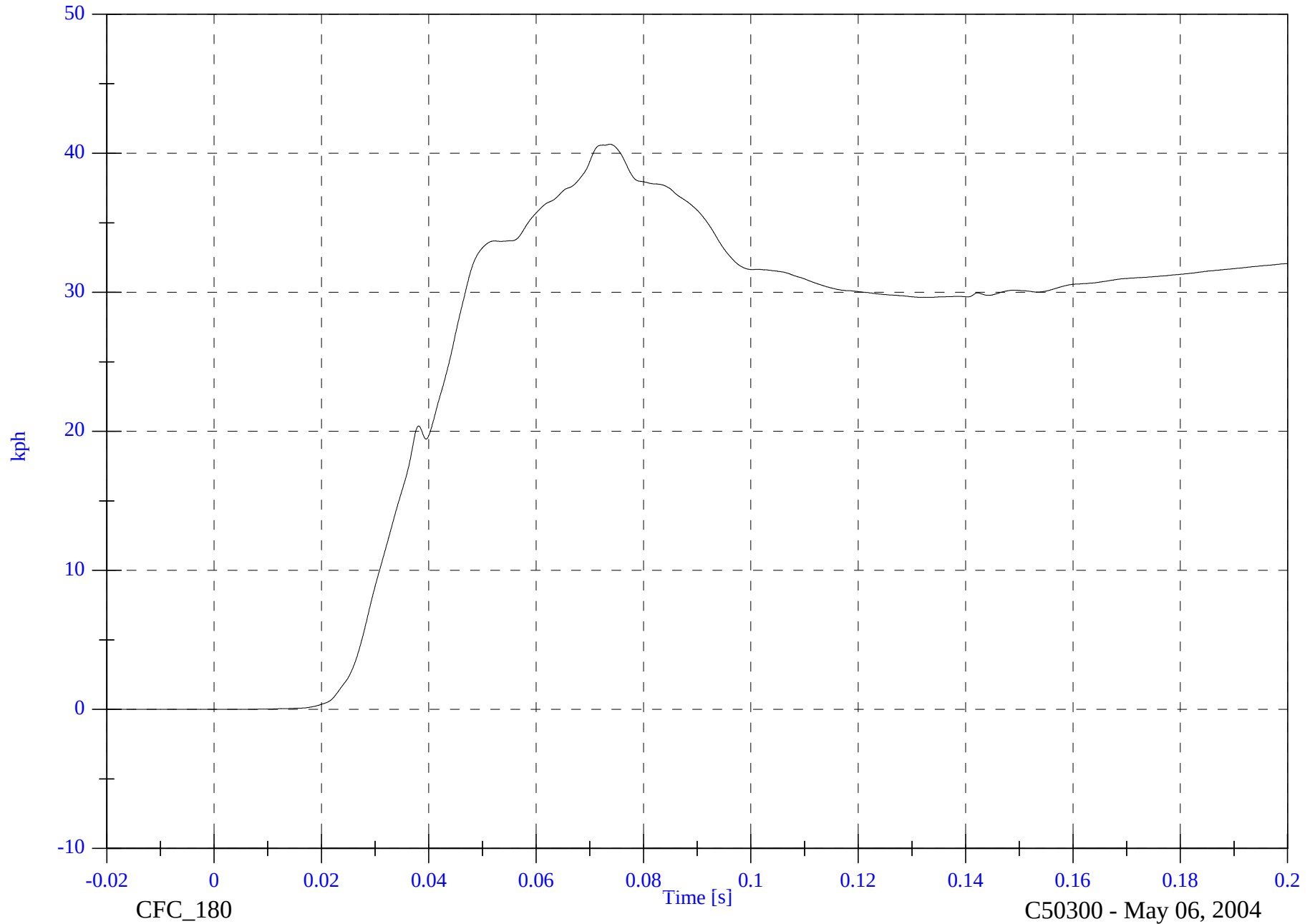
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Rib y Velocity

Max: 40.6 [kph] at 0.074 [s]

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



B-24

8675-F214-19

CFC_180

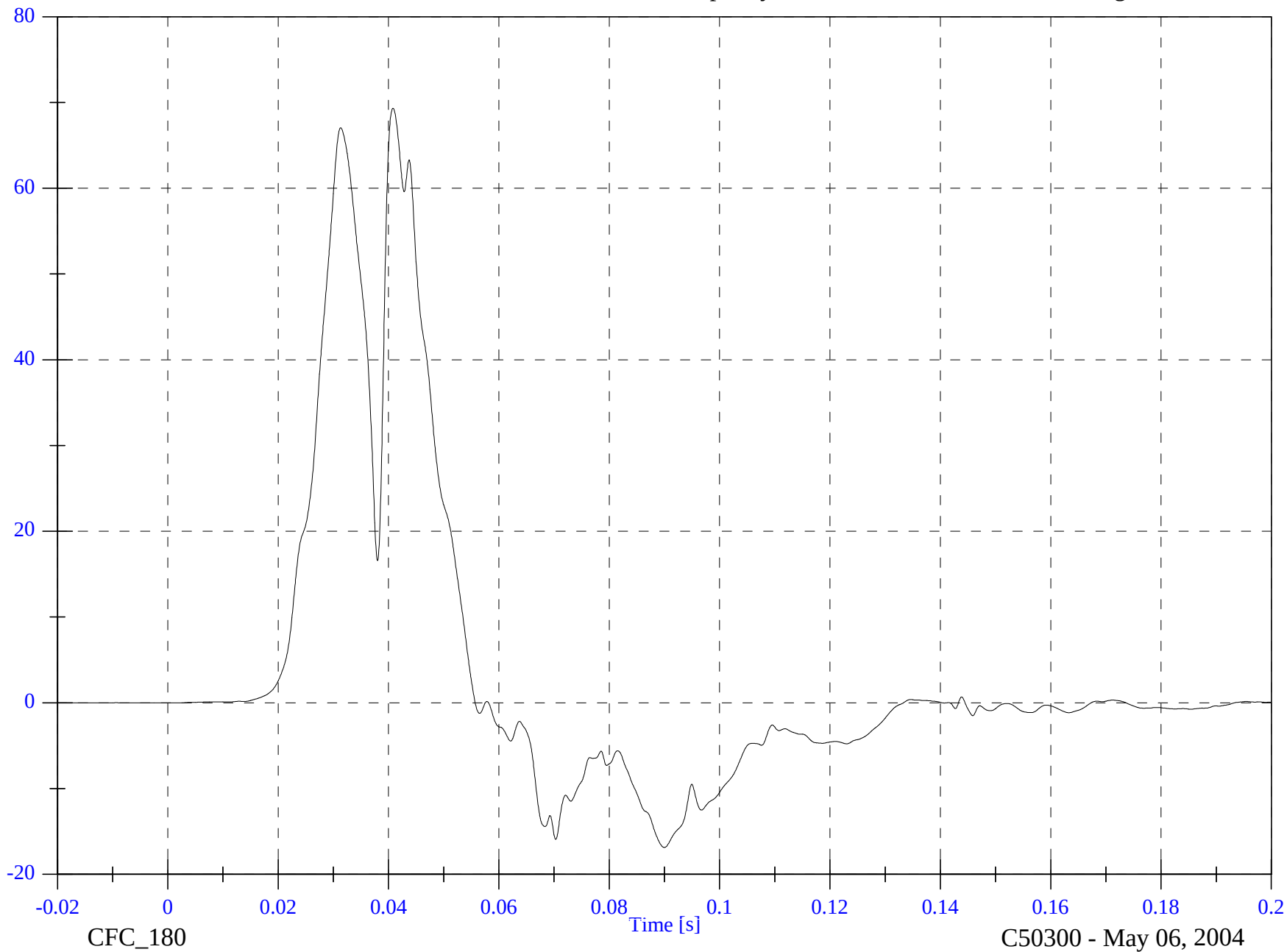
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Spine y

Max: 69.3 [g] at 0.041 [s]

Min: -16.9 [g] at 0.090 [s]



B-25

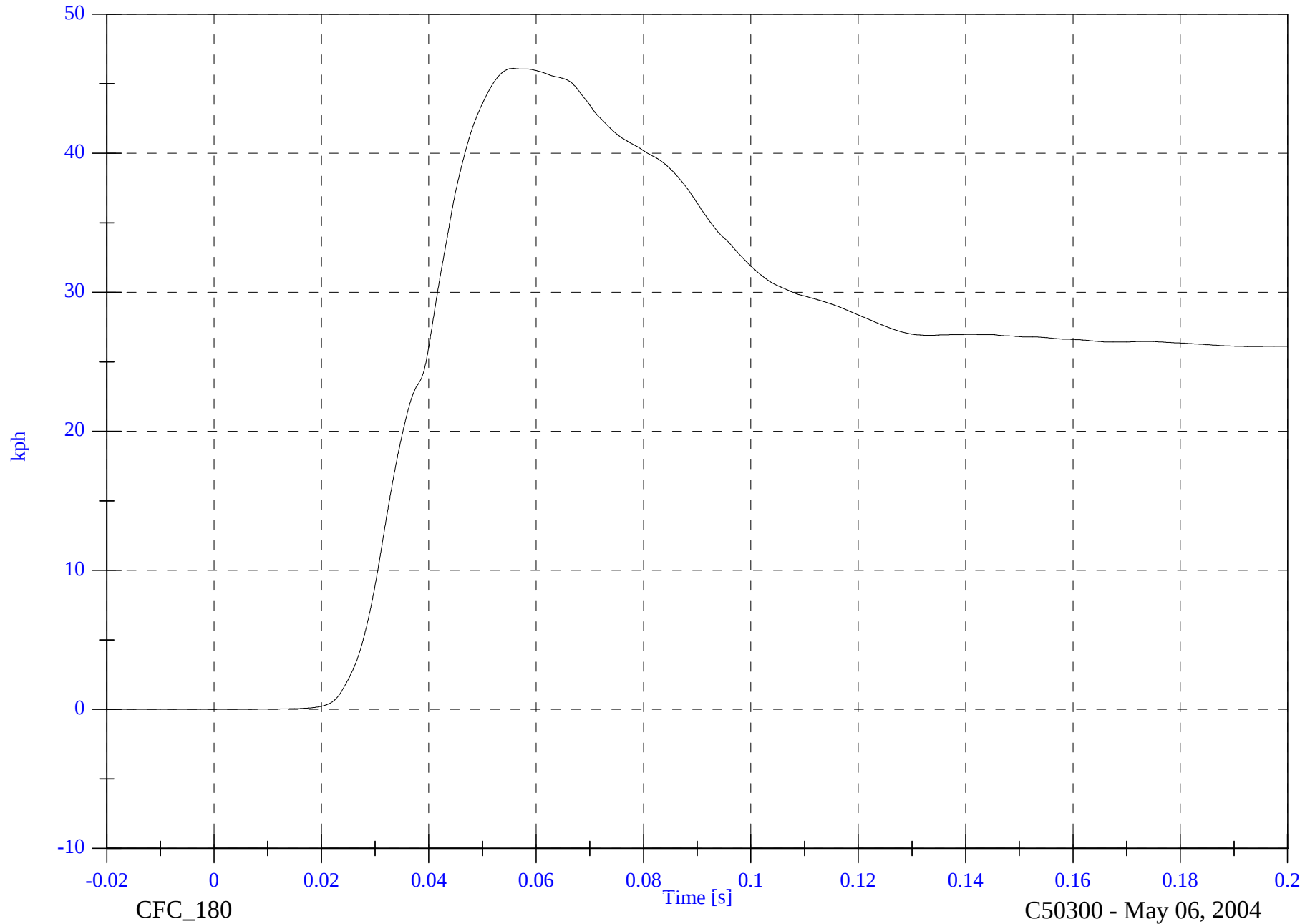
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Spine y Velocity

Max: 46.1 [kph] at 0.056 [s]

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



B-26

8675-F214-19

CFC_180

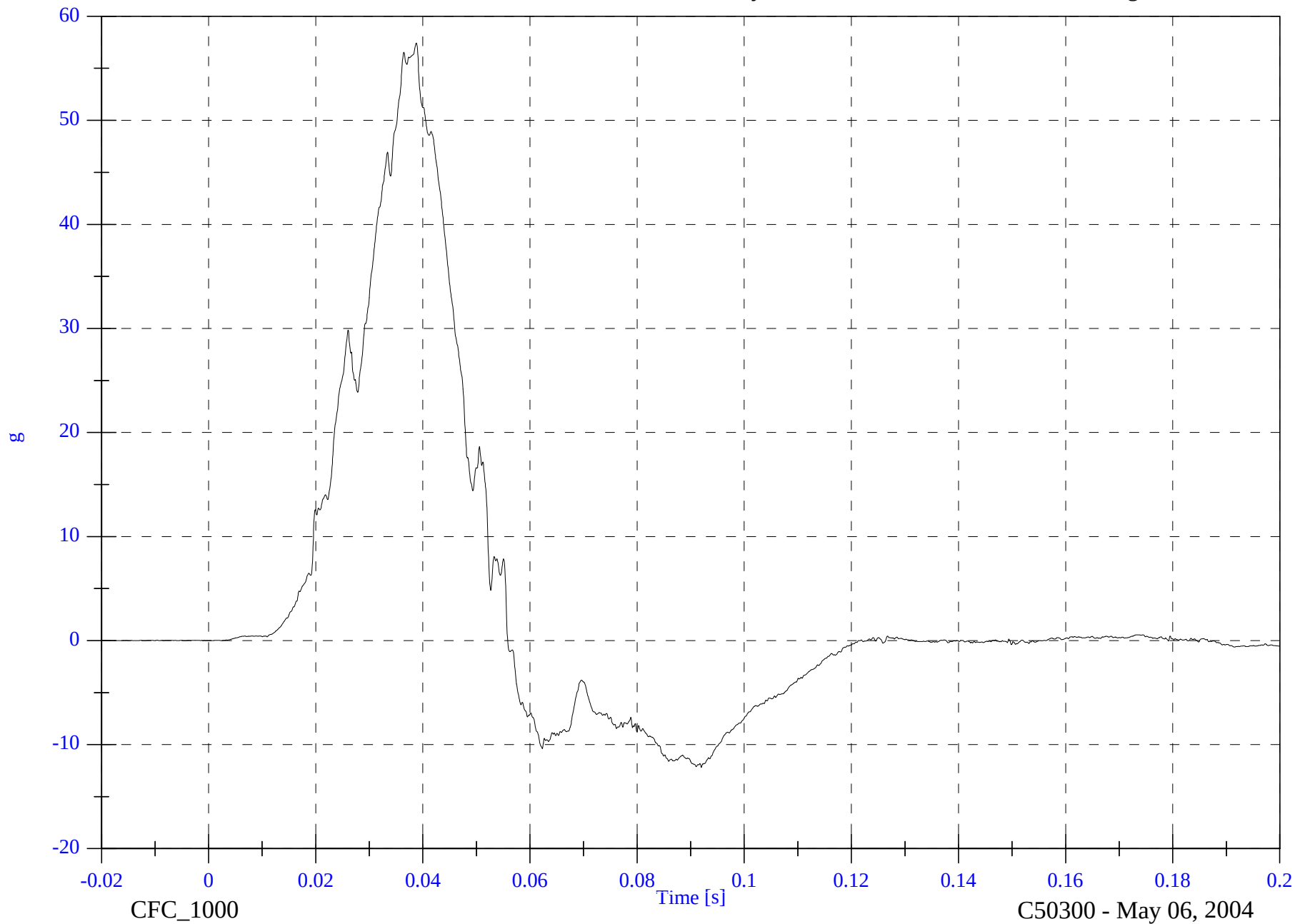
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Pelvic y

Max: 57.4 [g] at 0.039 [s]

Min: -12.2 [g] at 0.092 [s]



B-27

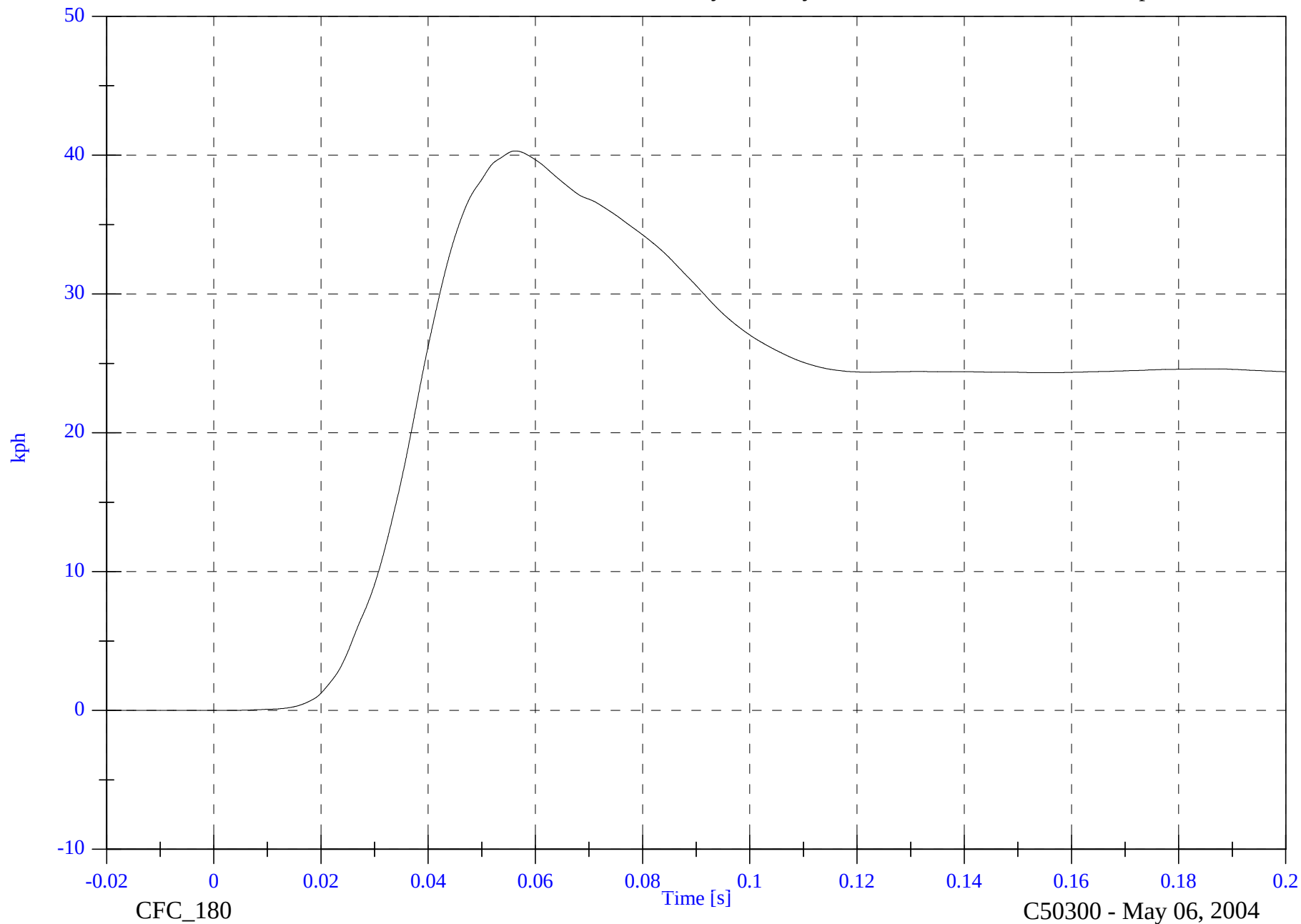
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Pelvic y Velocity

Max: 40.3 [kph] at 0.056 [s]

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



B-28

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

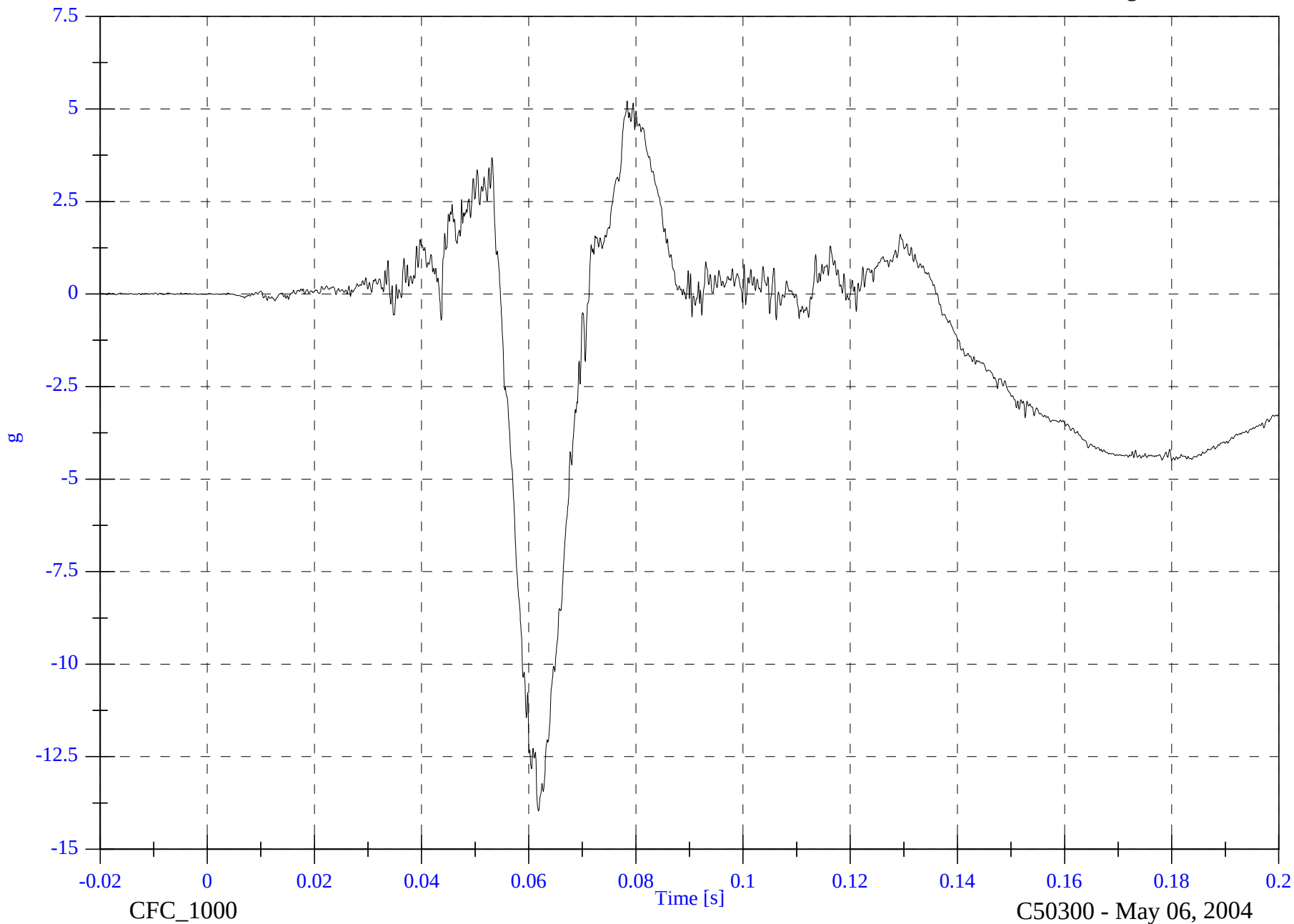
V2P4 Head x

Max: 5.2 [g] at 0.078 [s]

Min: -14.0 [g] at 0.062 [s]

B-29

8675-F214-19

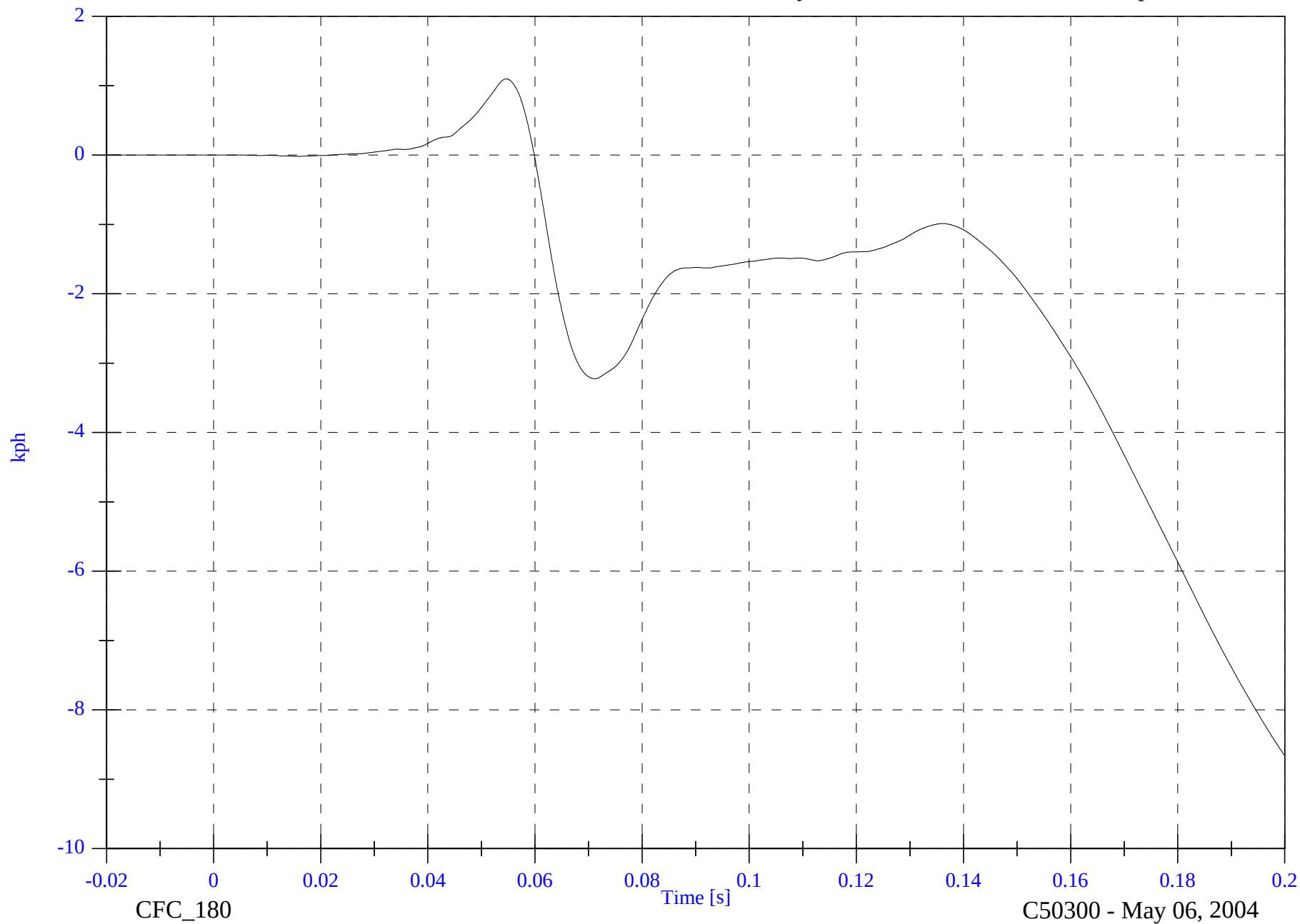


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Head x Velocity

Max: 1.1 [kph] at 0.055 [s]

Min: -8.7 [kph] at 0.200 [s]



B-30

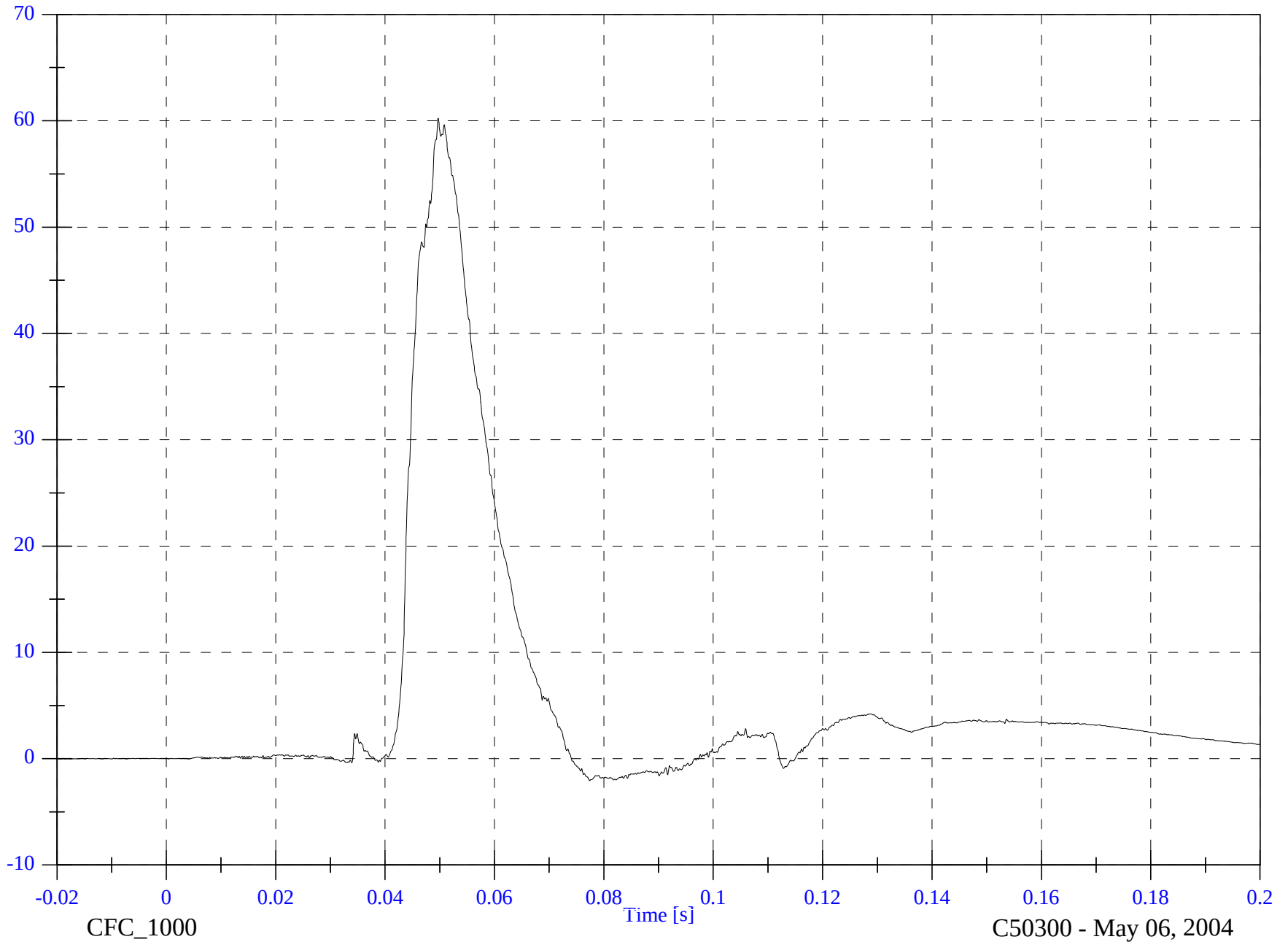
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Head y

Max: 60.2 [g] at 0.050 [s]

Min: -2.1 [g] at 0.077 [s]



B-31

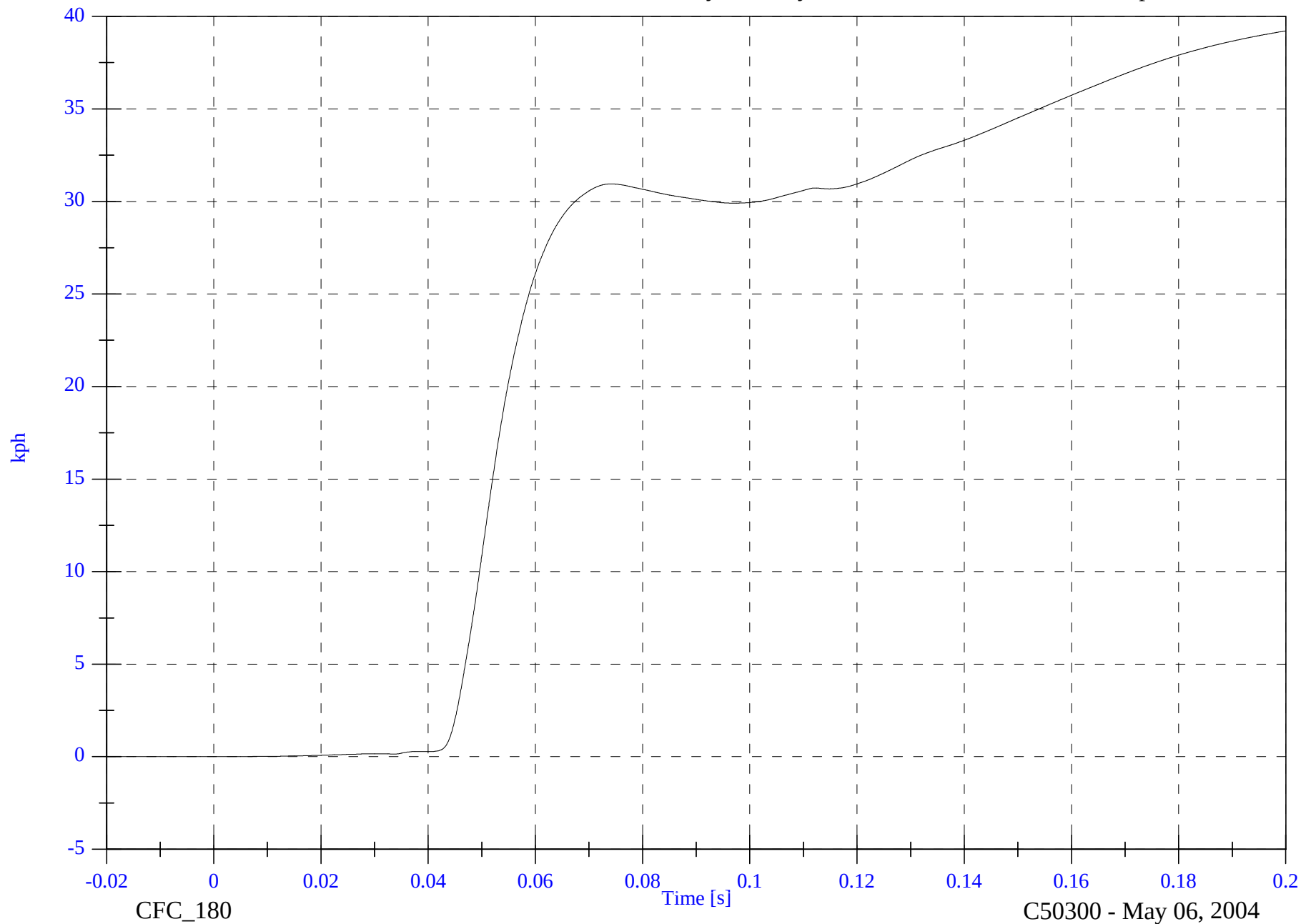
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Head y Velocity

Max: 39.2 [kph] at 0.200 [s]

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



B-32

8675-F214-19

CFC_180

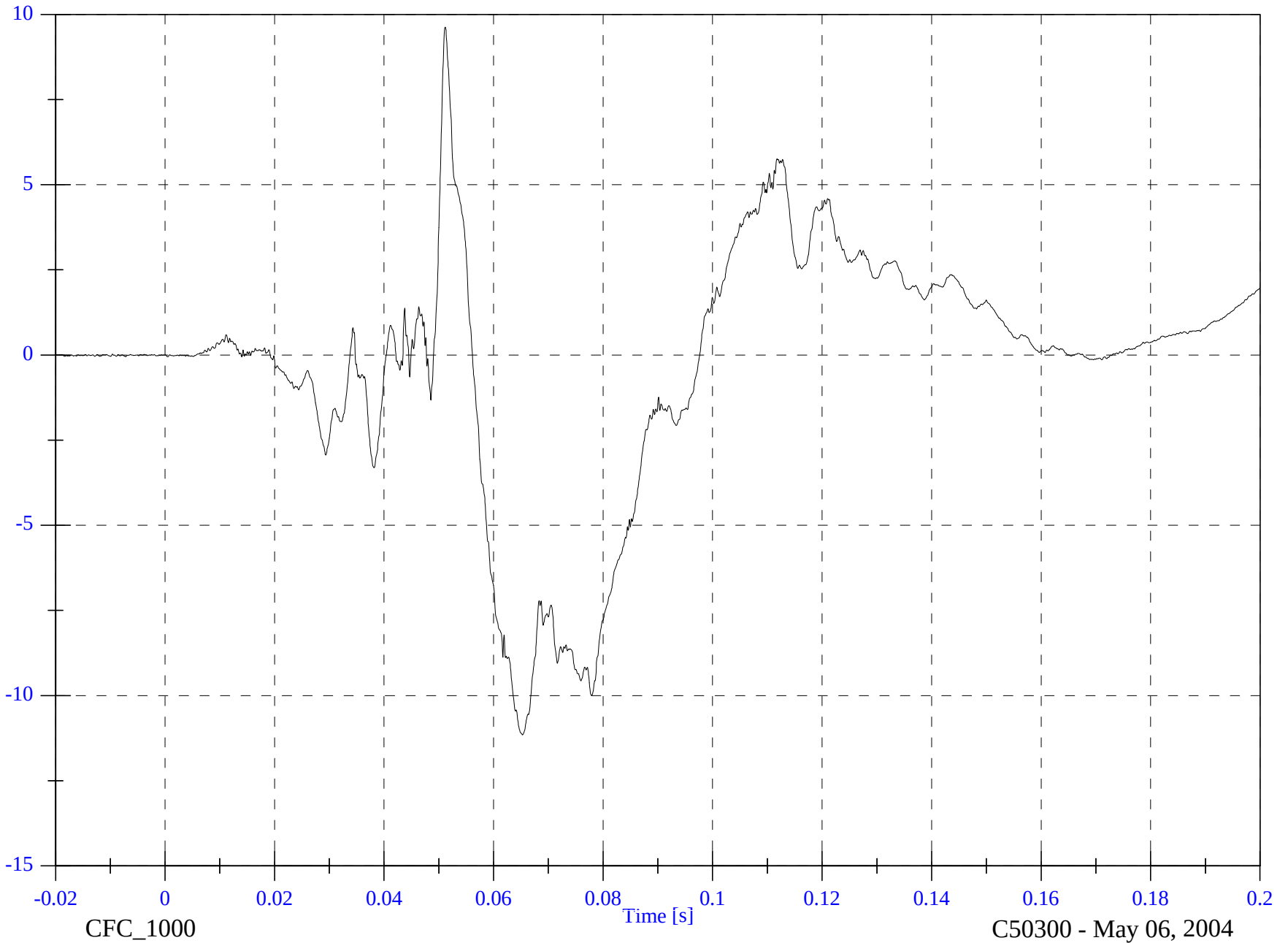
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Head z

Max: 9.6 [g] at 0.051 [s]

Min: -11.2 [g] at 0.065 [s]



B-33

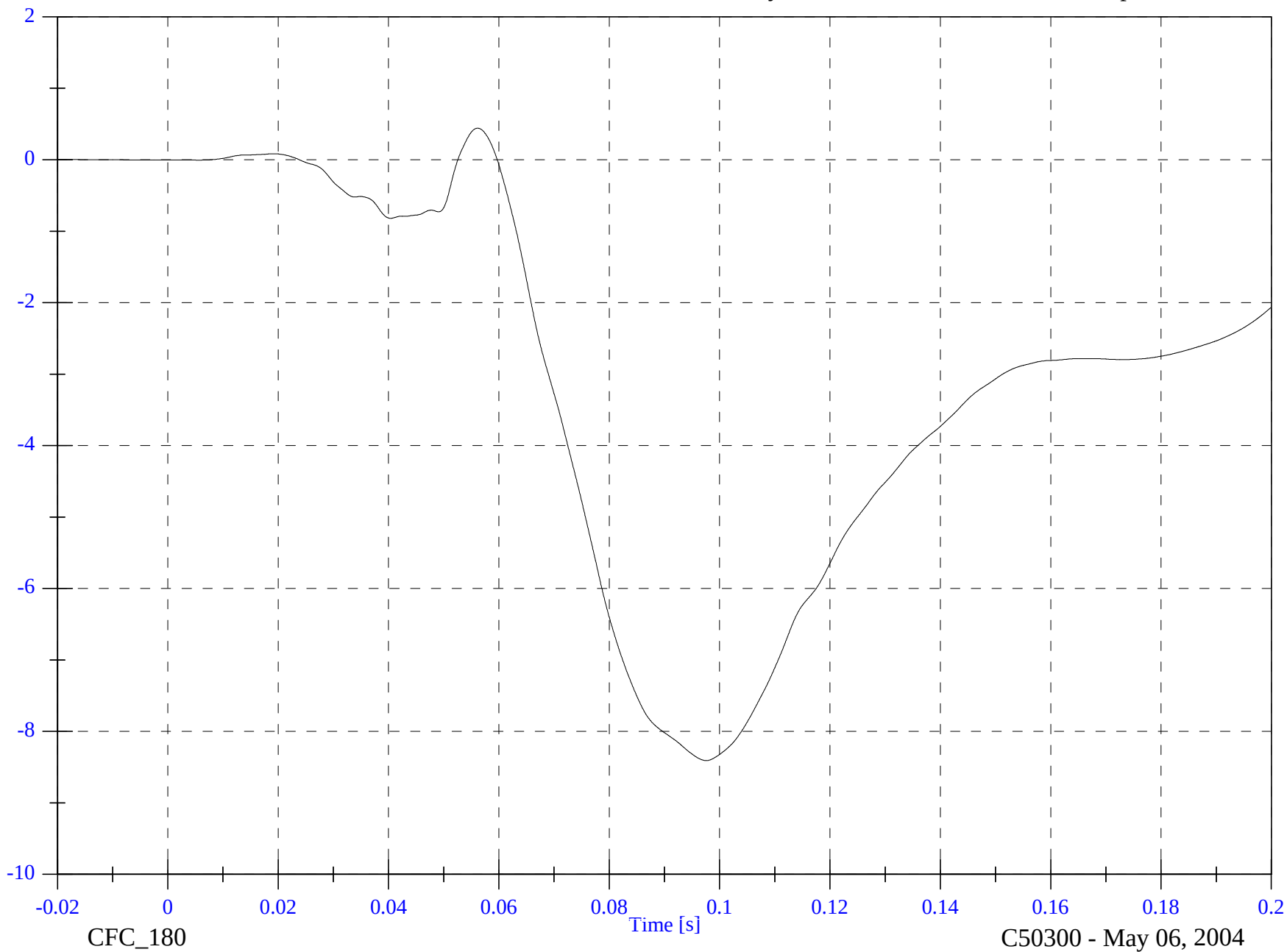
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Head z Velocity

Max: 0.4 [kph] at 0.056 [s]

Min: -8.4 [kph] at 0.098 [s]



B-34

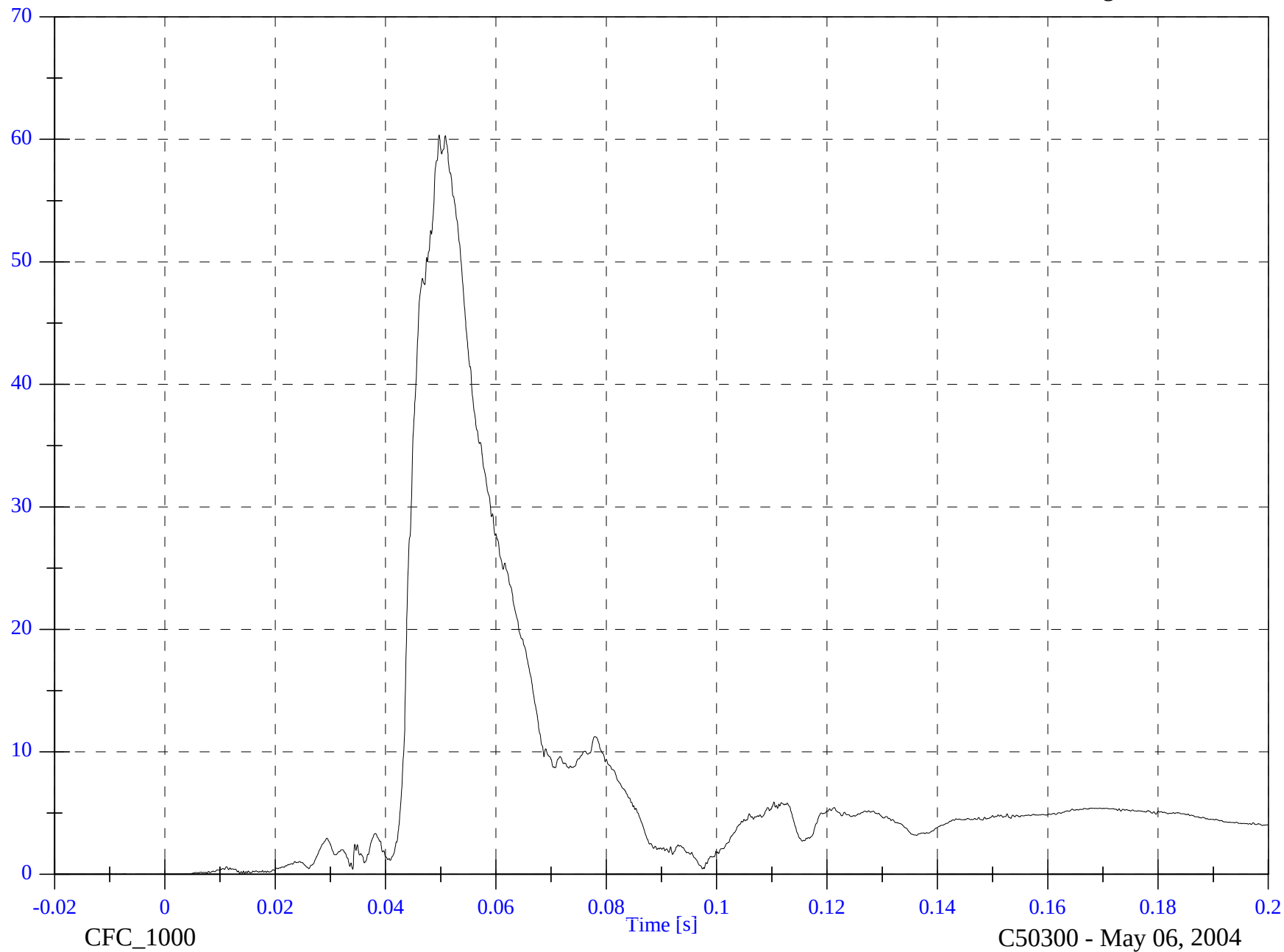
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Head Resultant

Max: 60.4 [g] at 0.050 [s]

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



B-35

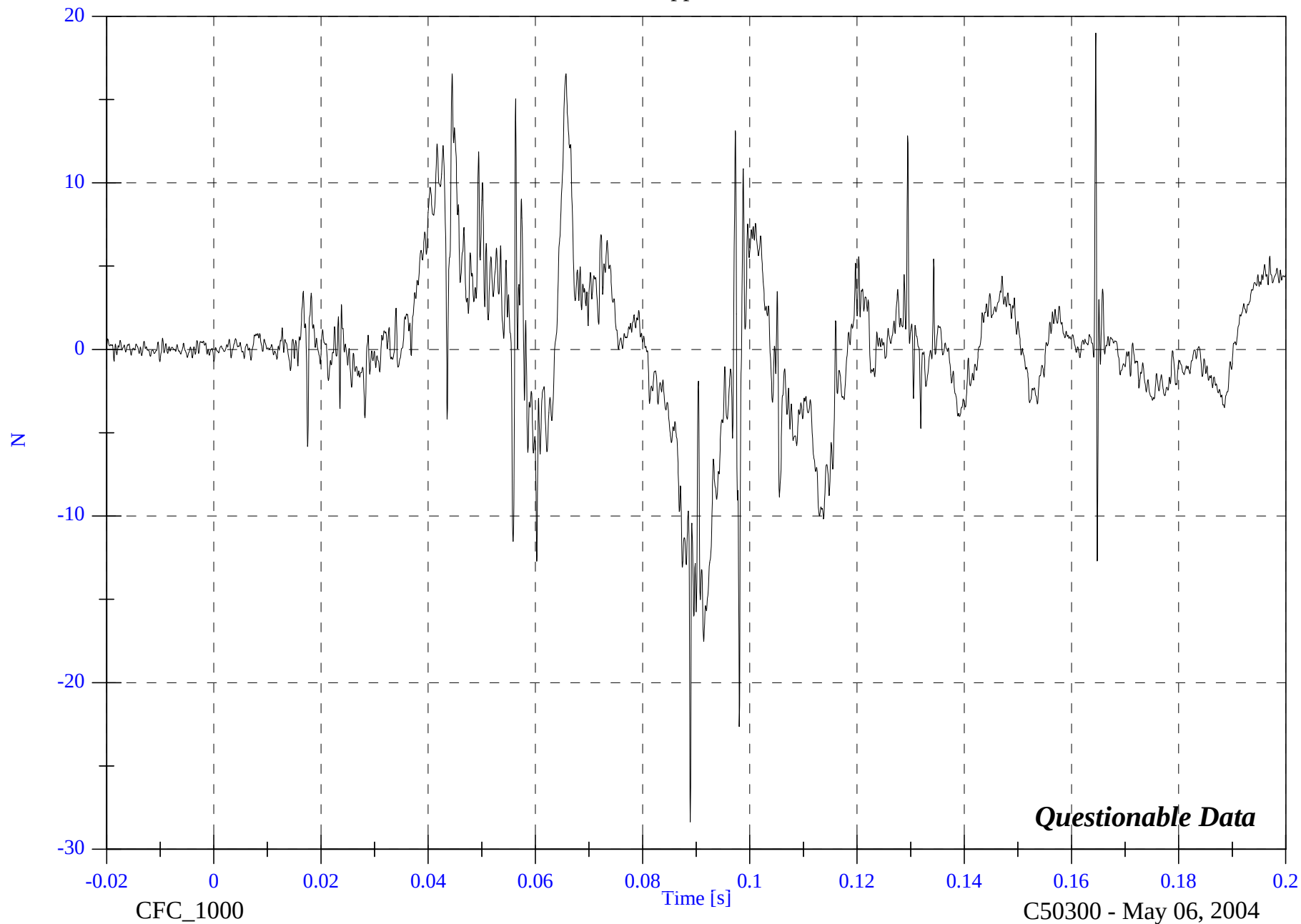
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Neck Fx

Max: 19.0 [N] at 0.165 [s]

Min: -28.4 [N] at 0.089 [s]



B-36

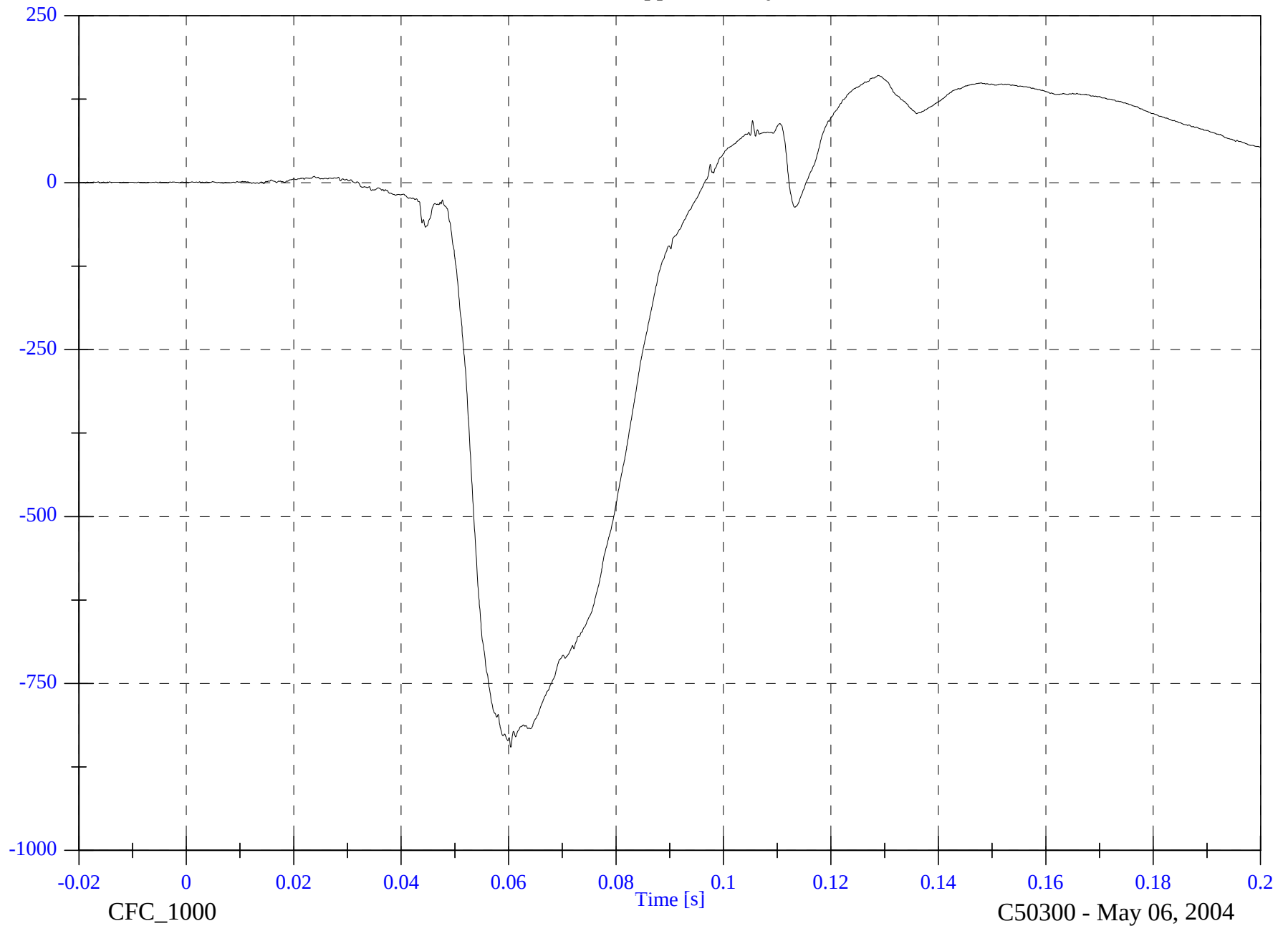
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Neck Fy

Max: 160.5 [N] at 0.129 [s]

Min: -845.4 [N] at 0.060 [s]



B-37

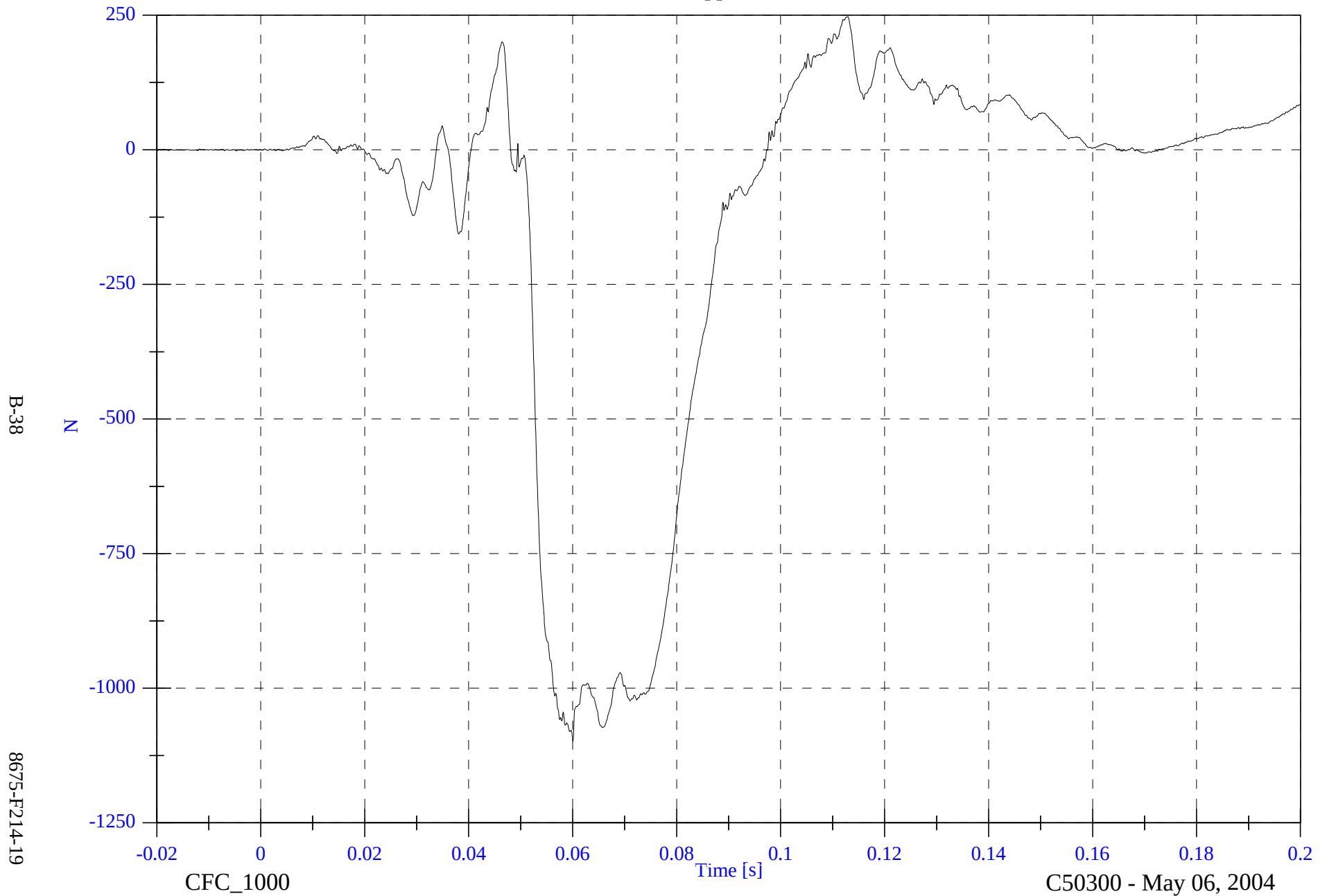
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Neck Fz

Max: 247.3 [N] at 0.113 [s]

Min: -1098.1 [N] at 0.060 [s]

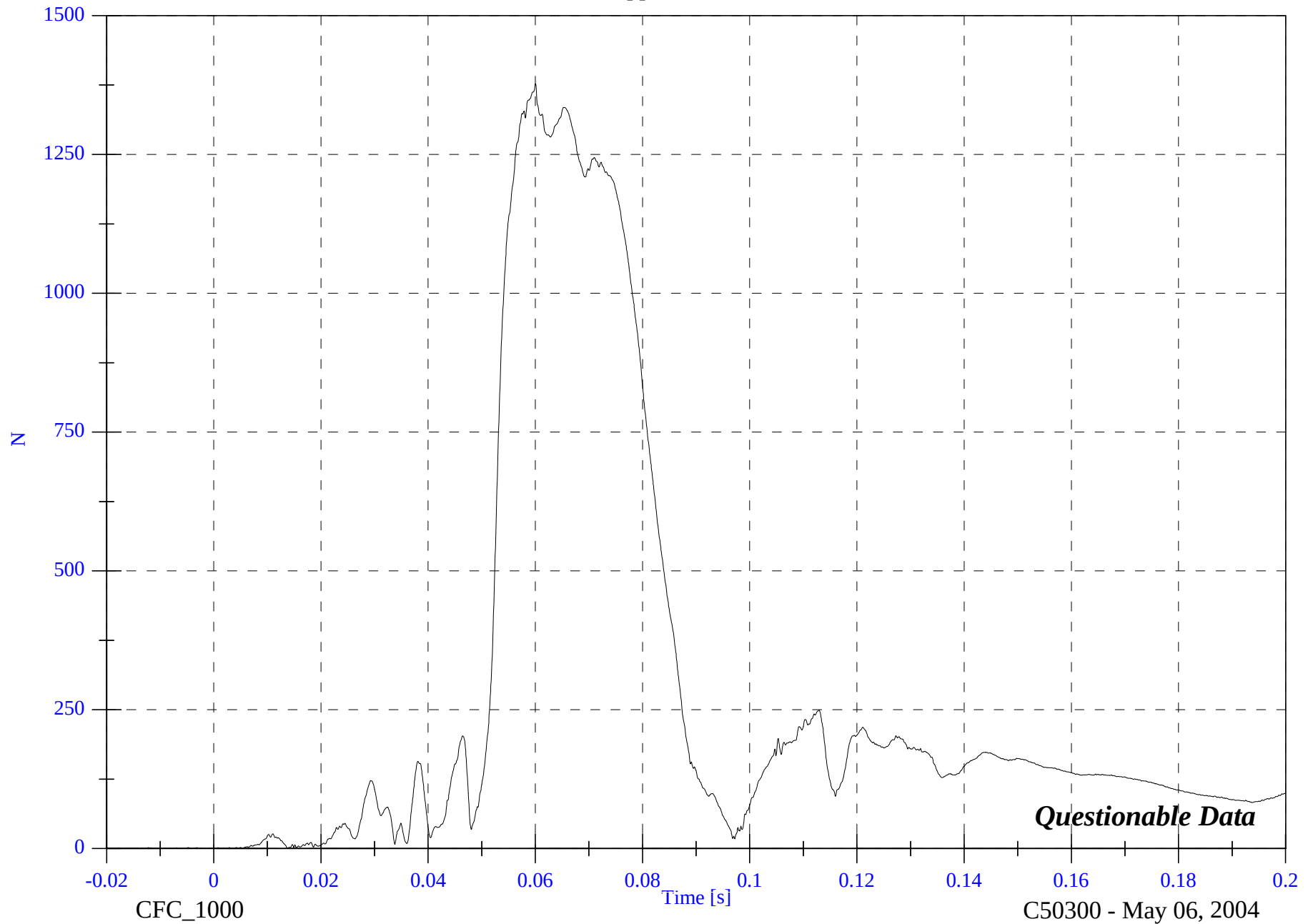


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Neck F Resultant

Max: 1377.4 [N] at 0.060 [s]

Min: 0.1 [N] at -0.009 [s]



B-39

8675-F214-19

CFC_1000

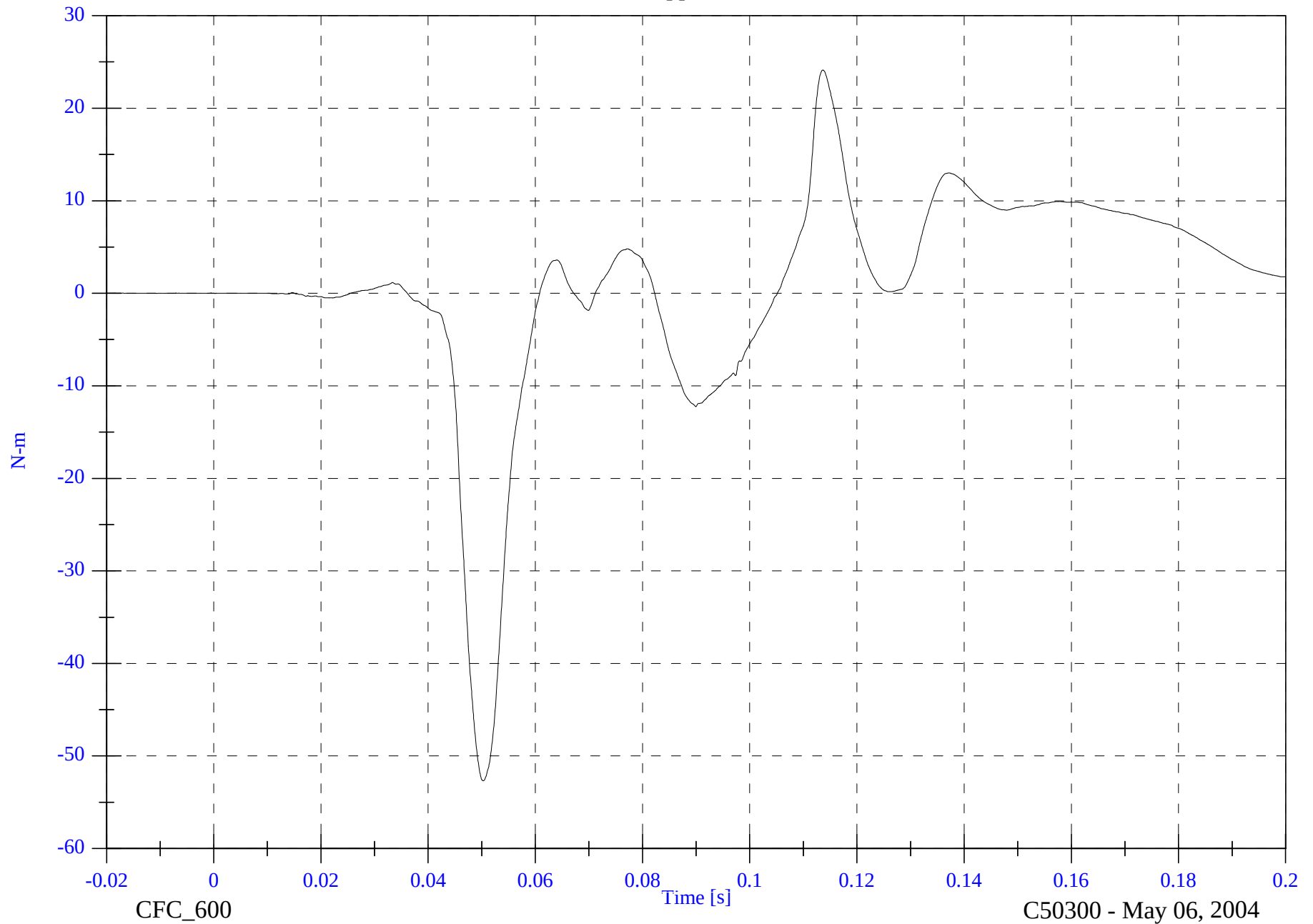
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Neck Mx

Max: 24.1 [N-m] at 0.114 [s]

Min: -52.7 [N-m] at 0.050 [s]

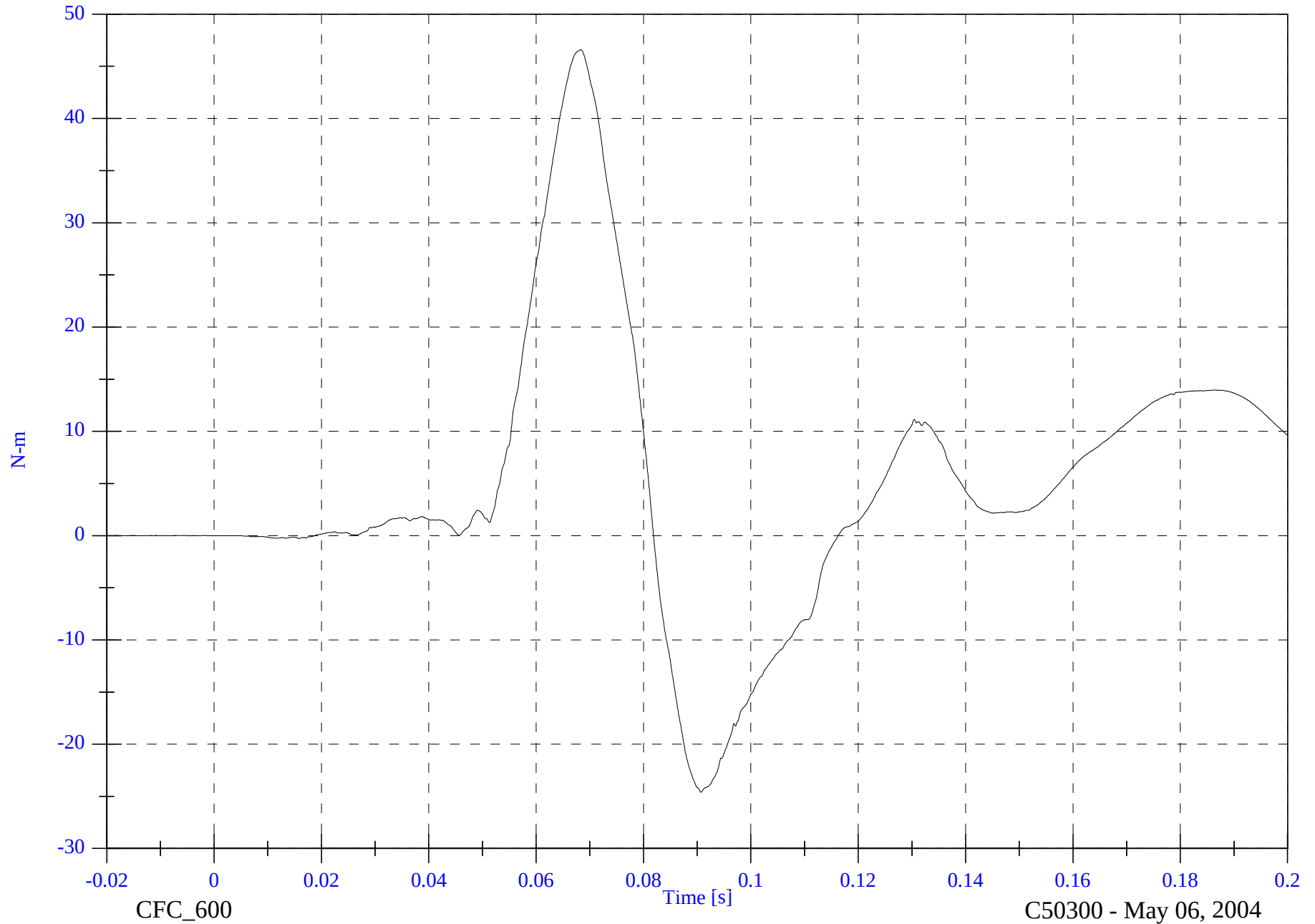


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Neck My

Max: 46.6 [N-m] at 0.068 [s]

Min: -24.6 [N-m] at 0.091 [s]



B-41

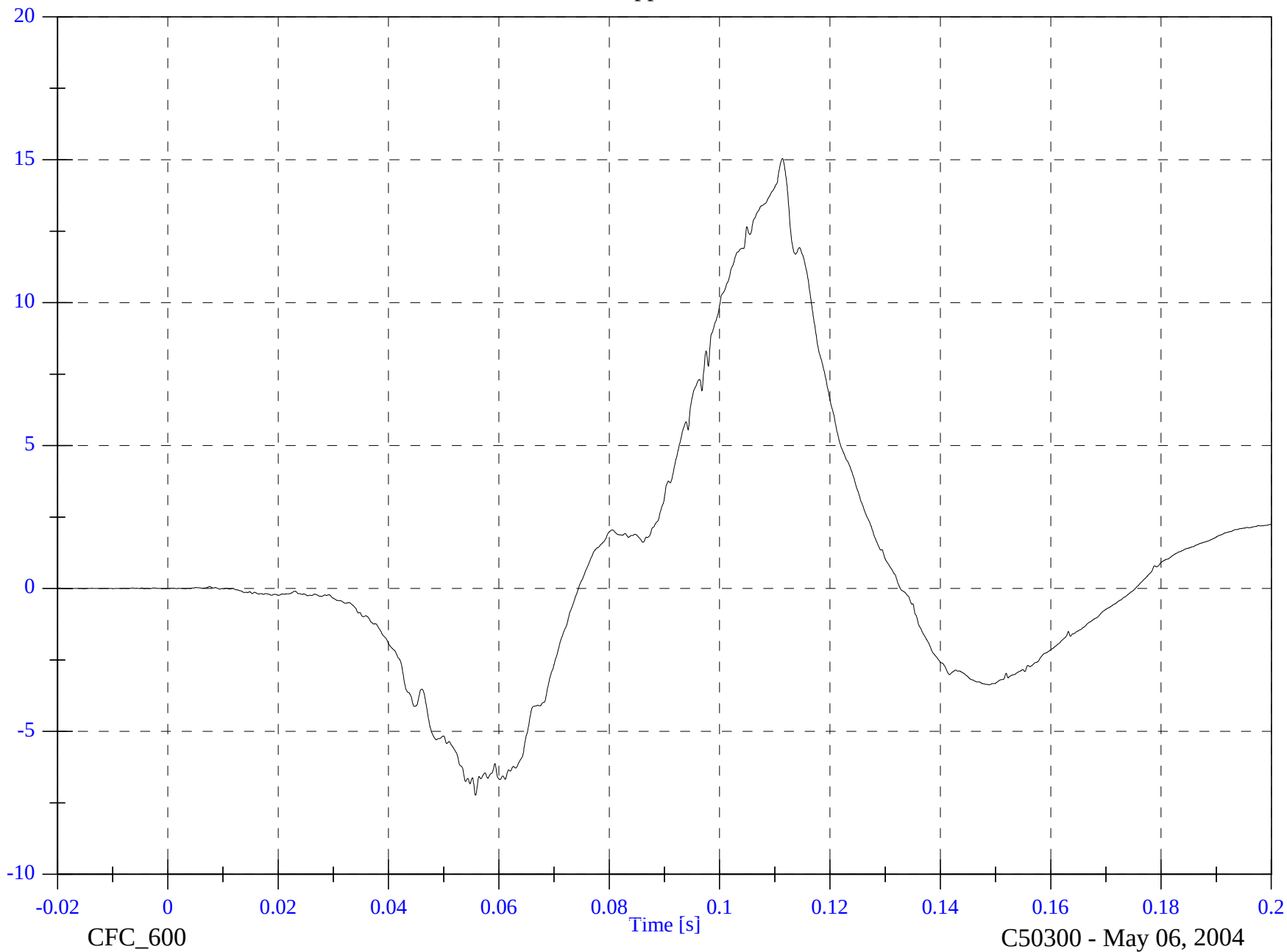
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Neck Mz

Max: 15.0 [N-m] at 0.111 [s]

Min: -7.2 [N-m] at 0.056 [s]



B-42

8675-F214-19

CFC_600

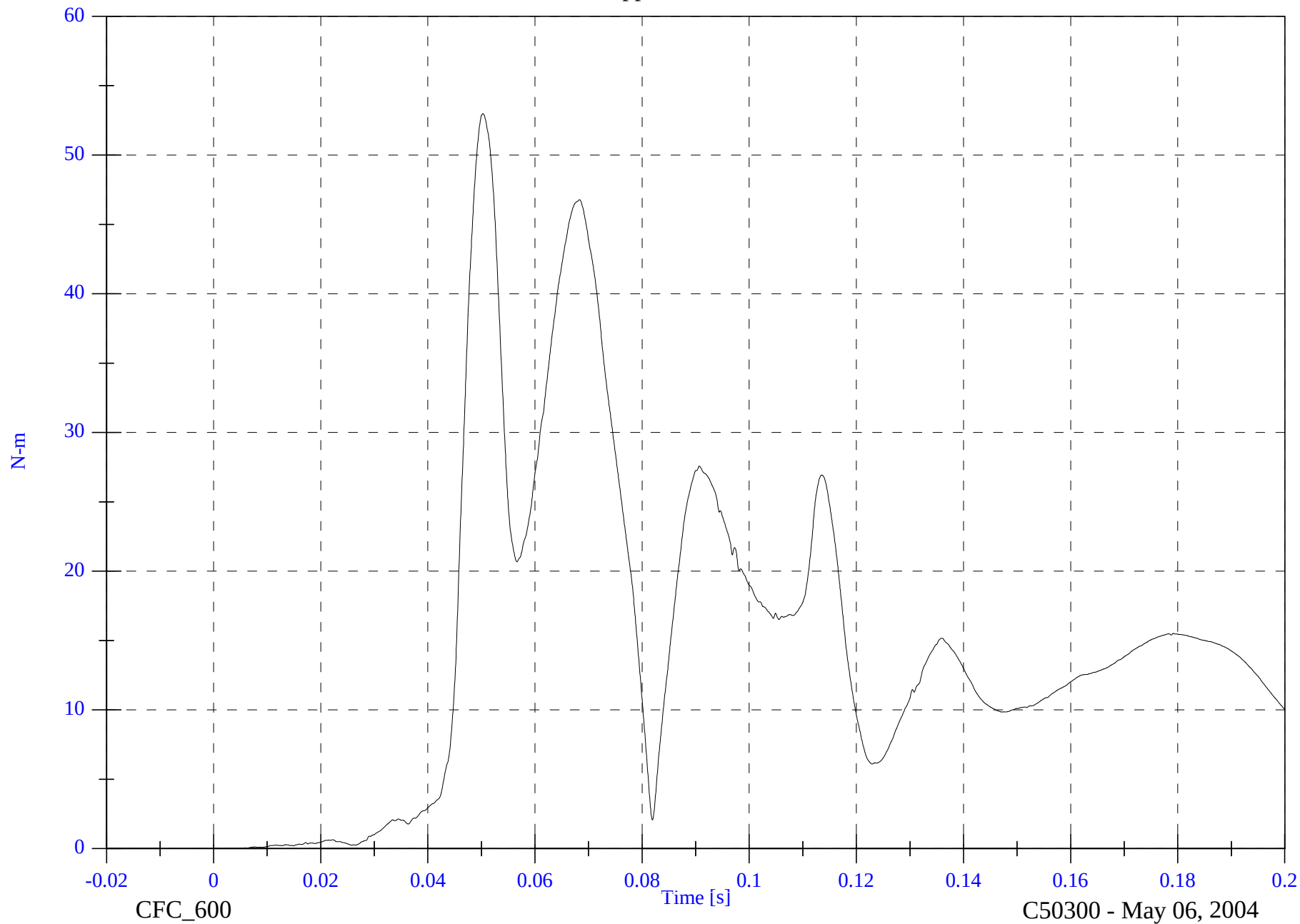
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Neck M Resultant

Max: 53.0 [N-m] at 0.050 [s]

Min: 0.0 [N-m] at -0.012 [s]



B-43

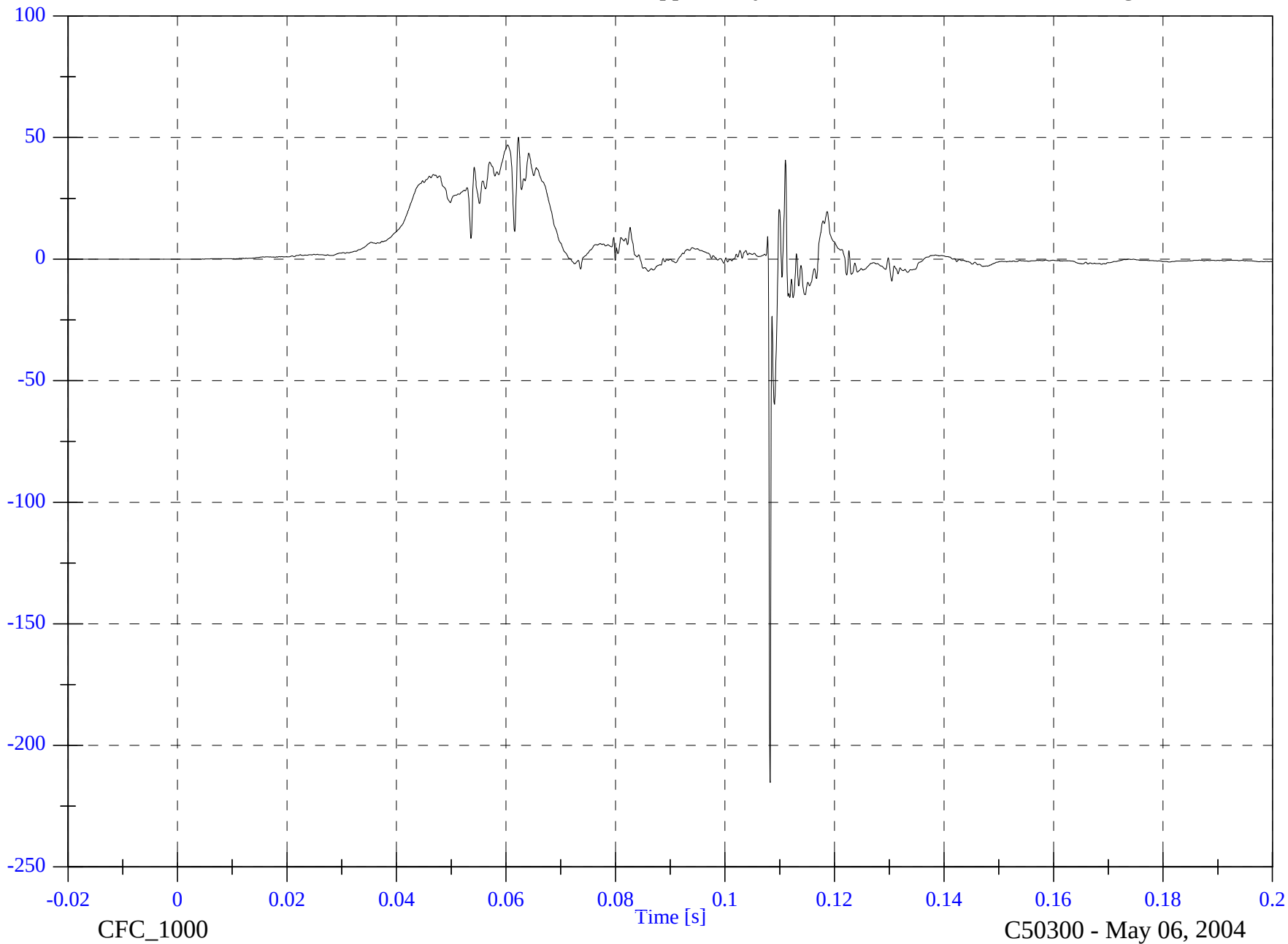
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Rib y

Max: 50.2 [g] at 0.062 [s]

Min: -215.2 [g] at 0.108 [s]



B-44

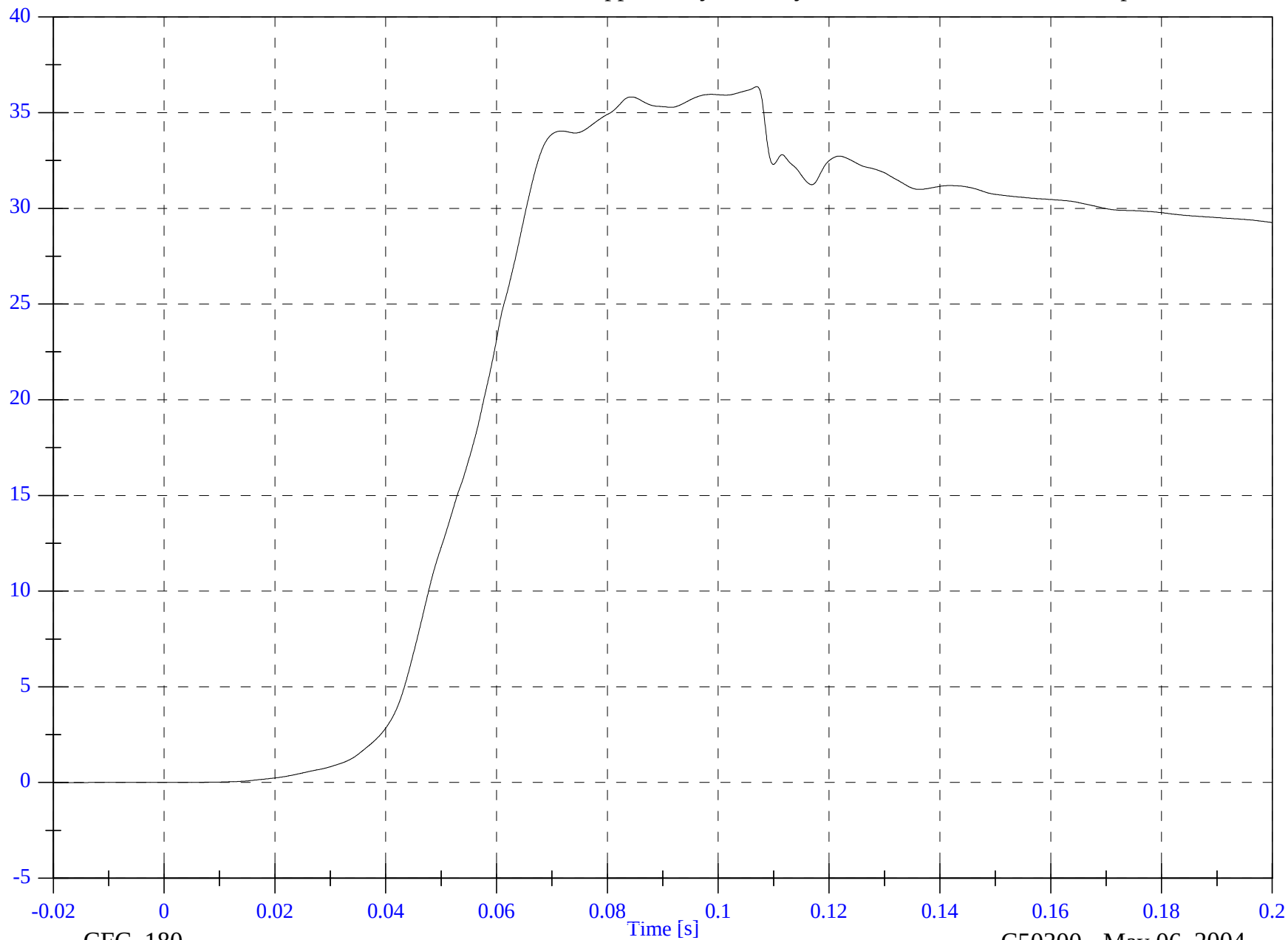
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Rib y Velocity

Max: 36.4 [kph] at 0.107 [s]

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



B-45

8675-F214-19

CFC_180

C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

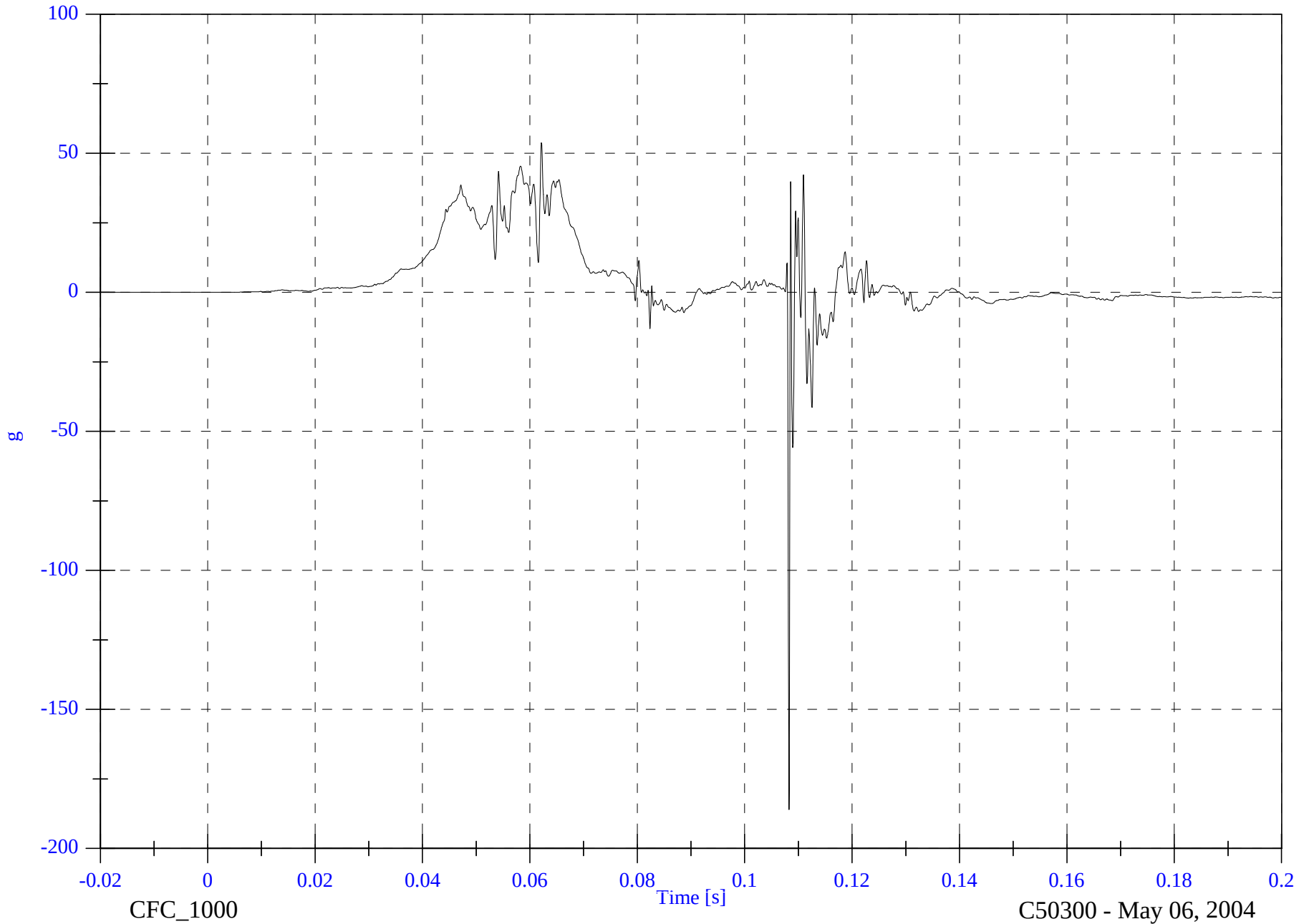
V2P4 Lower Rib y

Max: 53.8 [g] at 0.062 [s]

Min: -186.1 [g] at 0.108 [s]

B-46

8675-F214-19

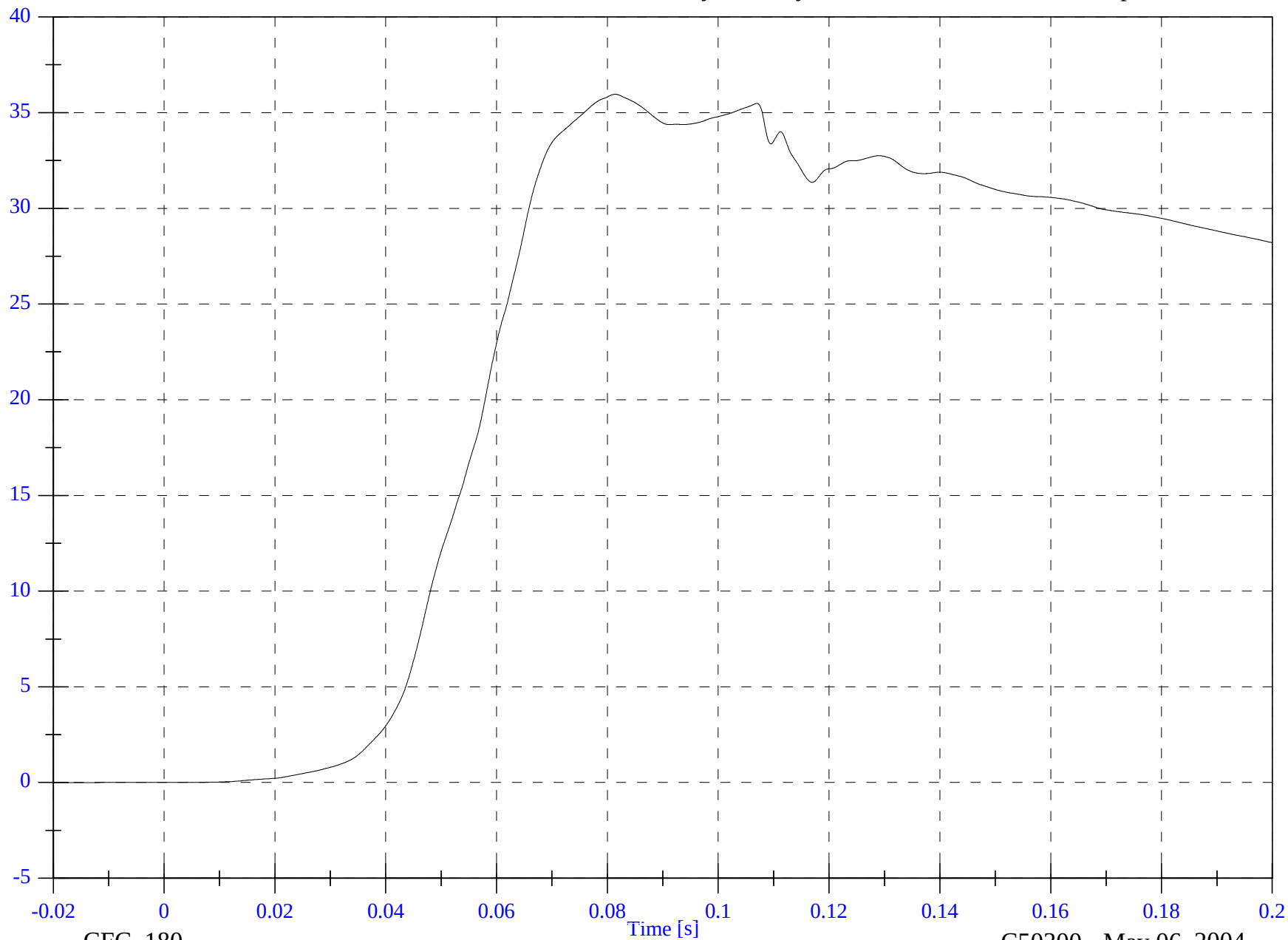


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Lower Rib y Velocity

Max: 36.0 [kph] at 0.081 [s]

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



B-47

8675-F214-19

CFC_180

C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

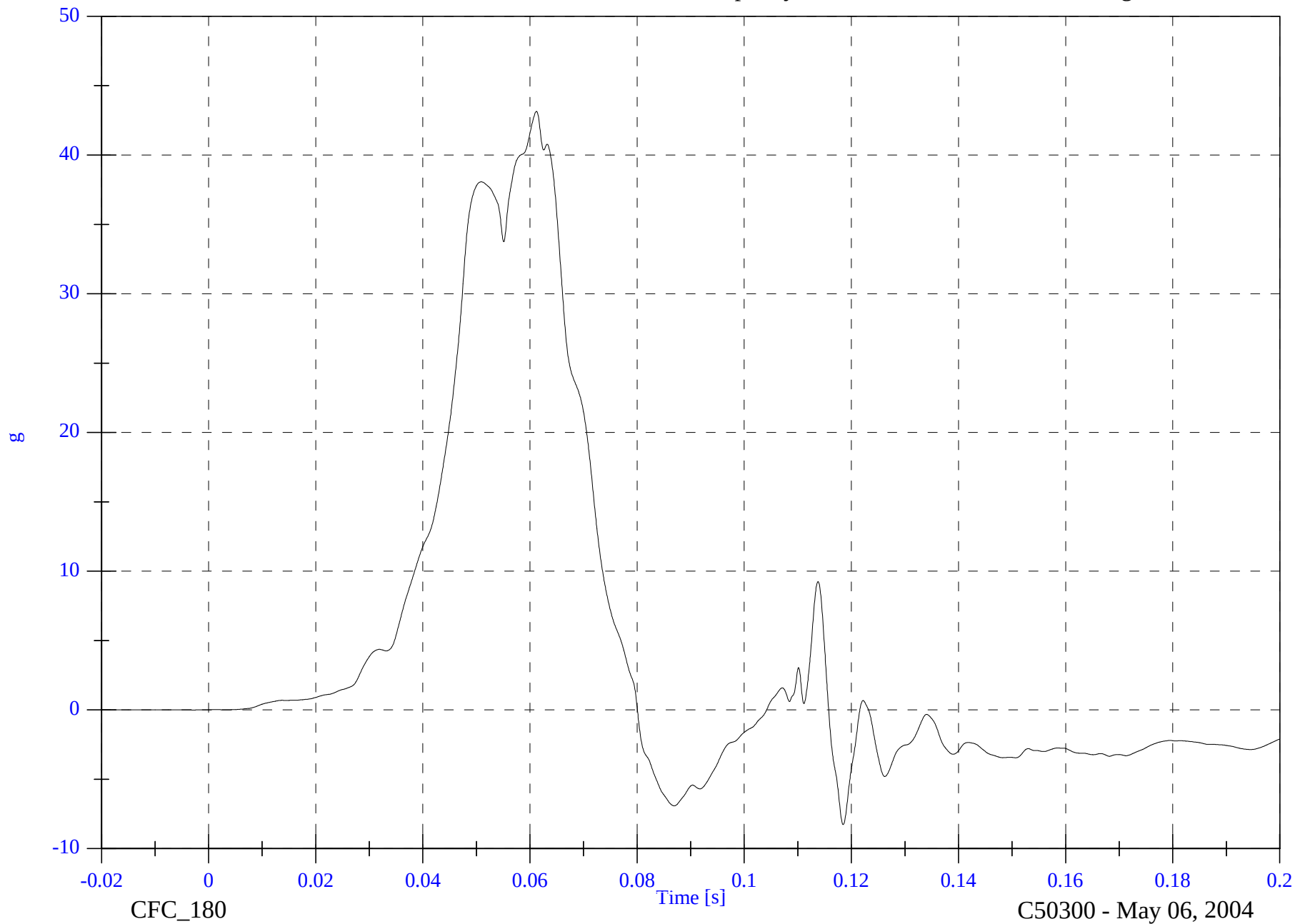
V2P4 Lower Spine y

Max: 43.1 [g] at 0.061 [s]

Min: -8.3 [g] at 0.118 [s]

B-48

8675-F214-19

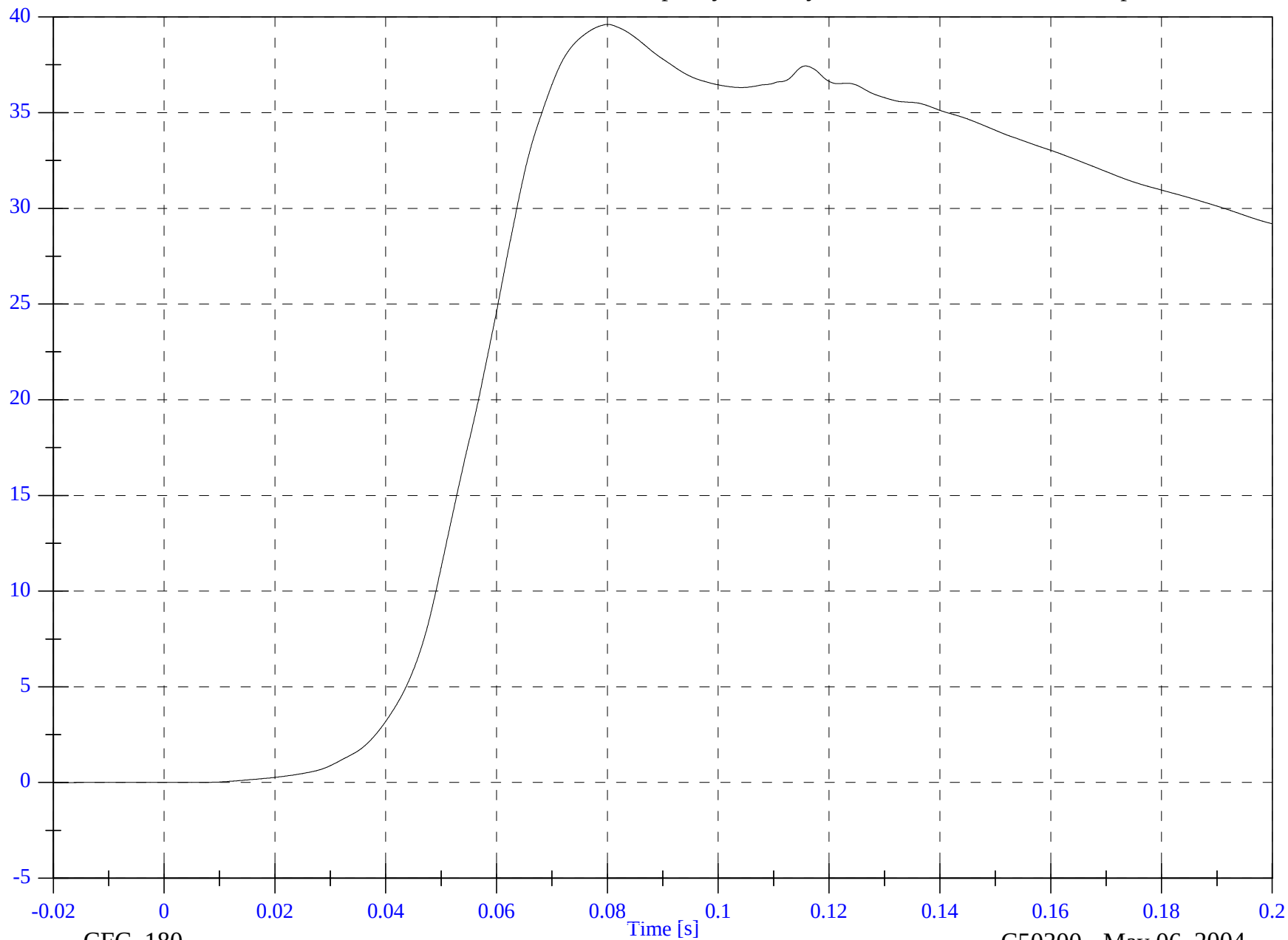


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Lower Spine y Velocity

Max: 39.6 [kph] at 0.080 [s]

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



B-49

8675-F214-19

CFC_180

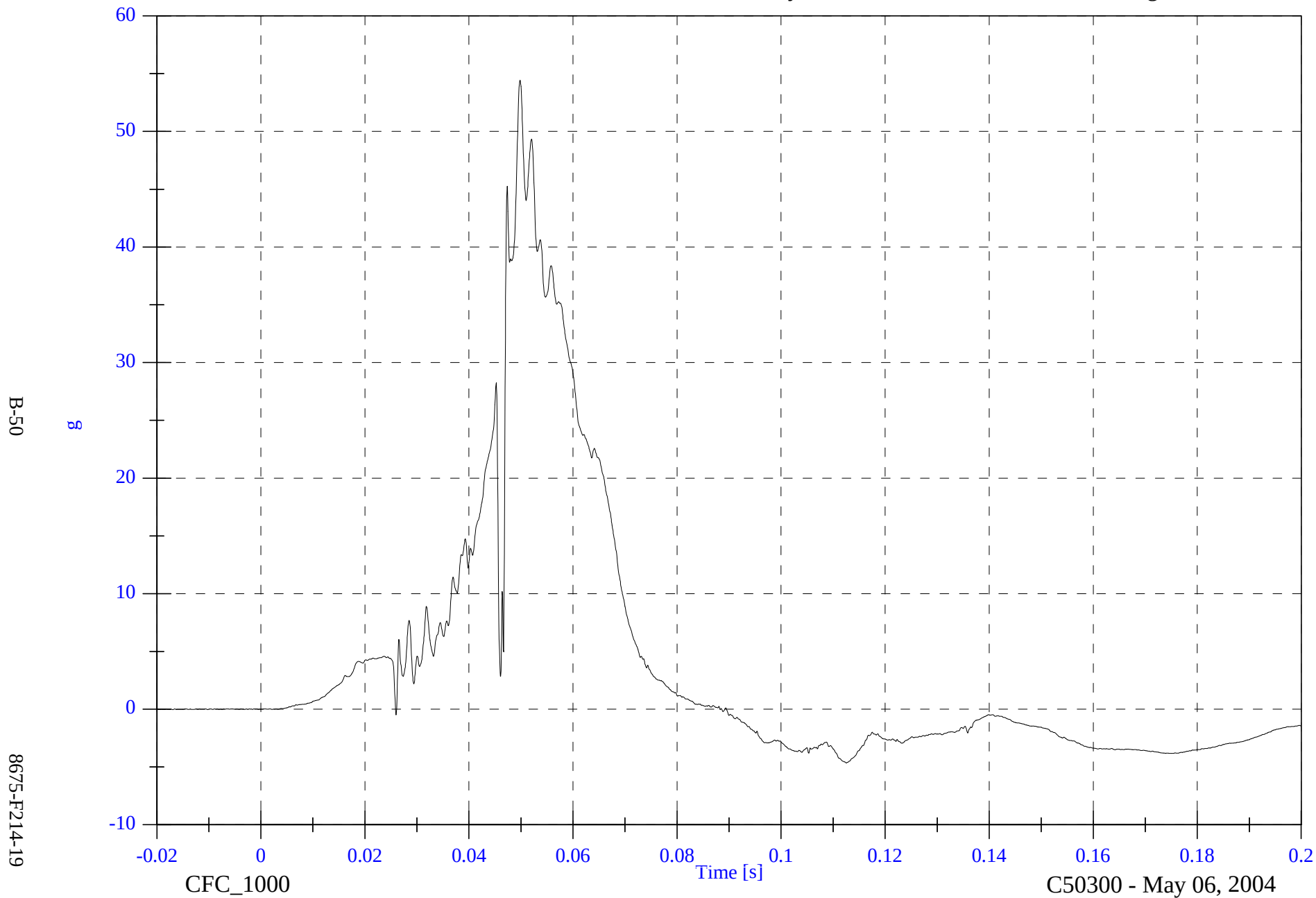
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Pelvic y

Max: 54.4 [g] at 0.050 [s]

Min: -4.7 [g] at 0.113 [s]

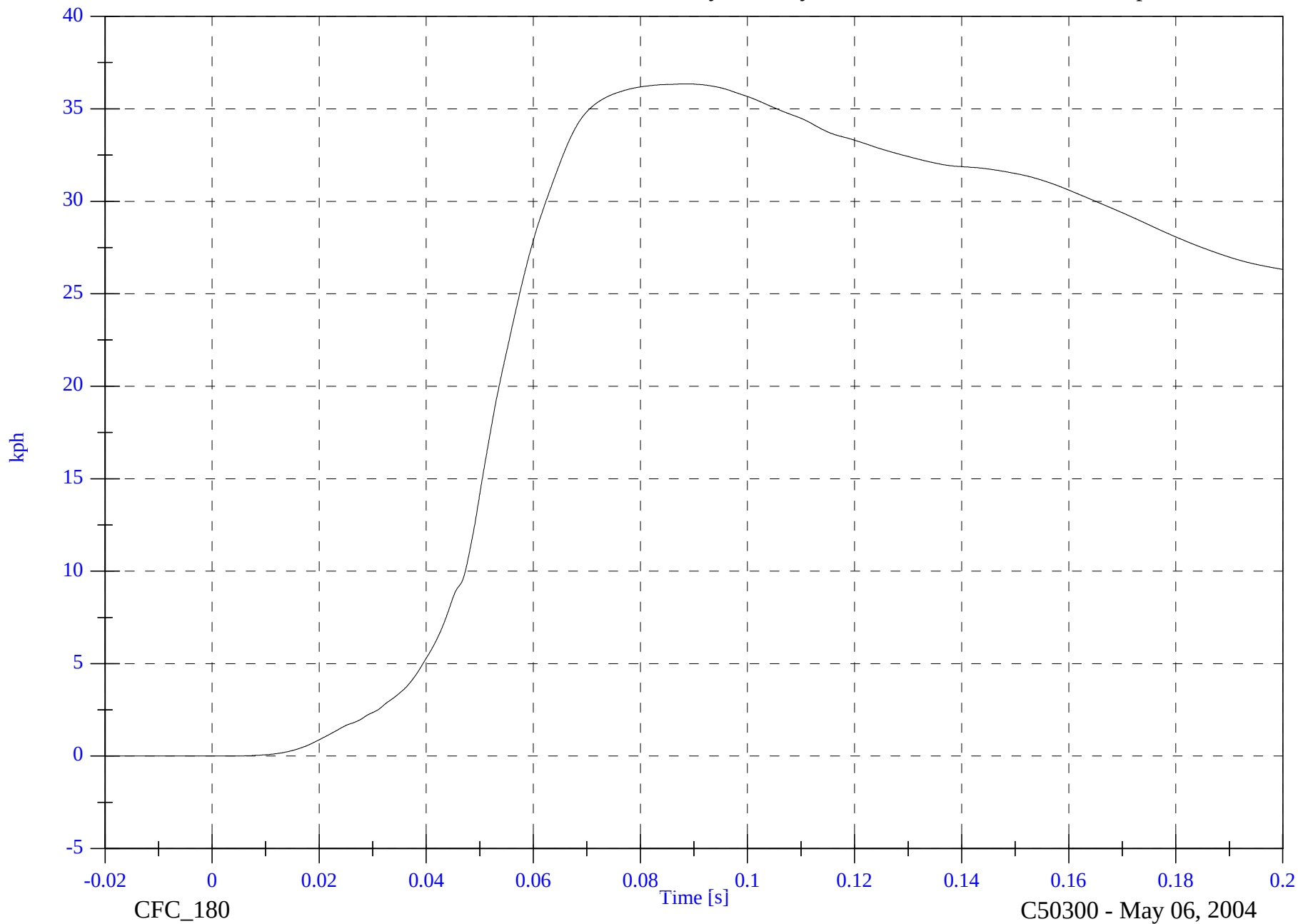


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Pelvic y Velocity

Max: 36.3 [kph] at 0.089 [s]

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



B-51

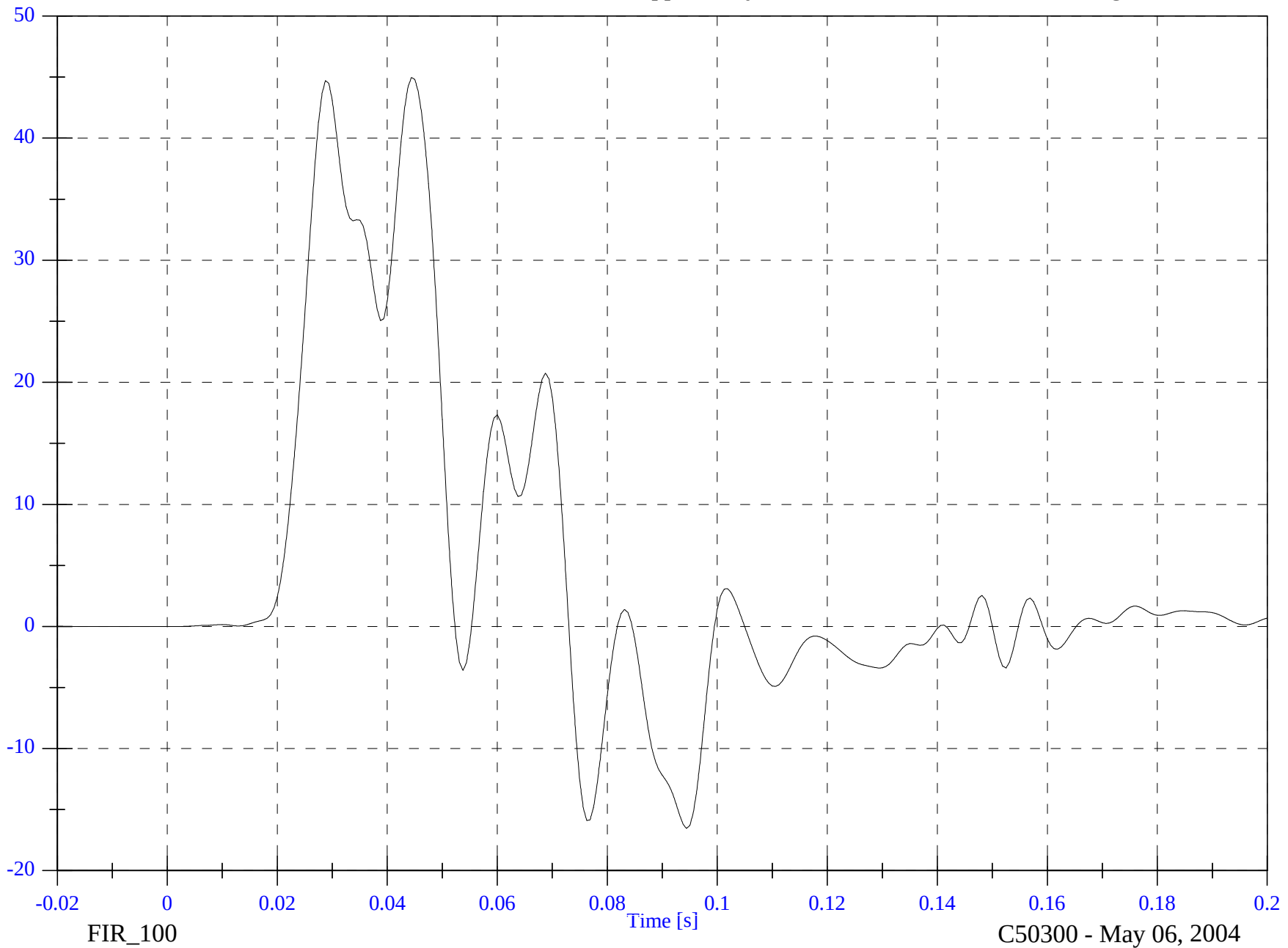
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Rib y

Max: 45.0 [g] at 0.044 [s]

Min: -16.5 [g] at 0.094 [s]



B-52

8675-F214-19

FIR_100

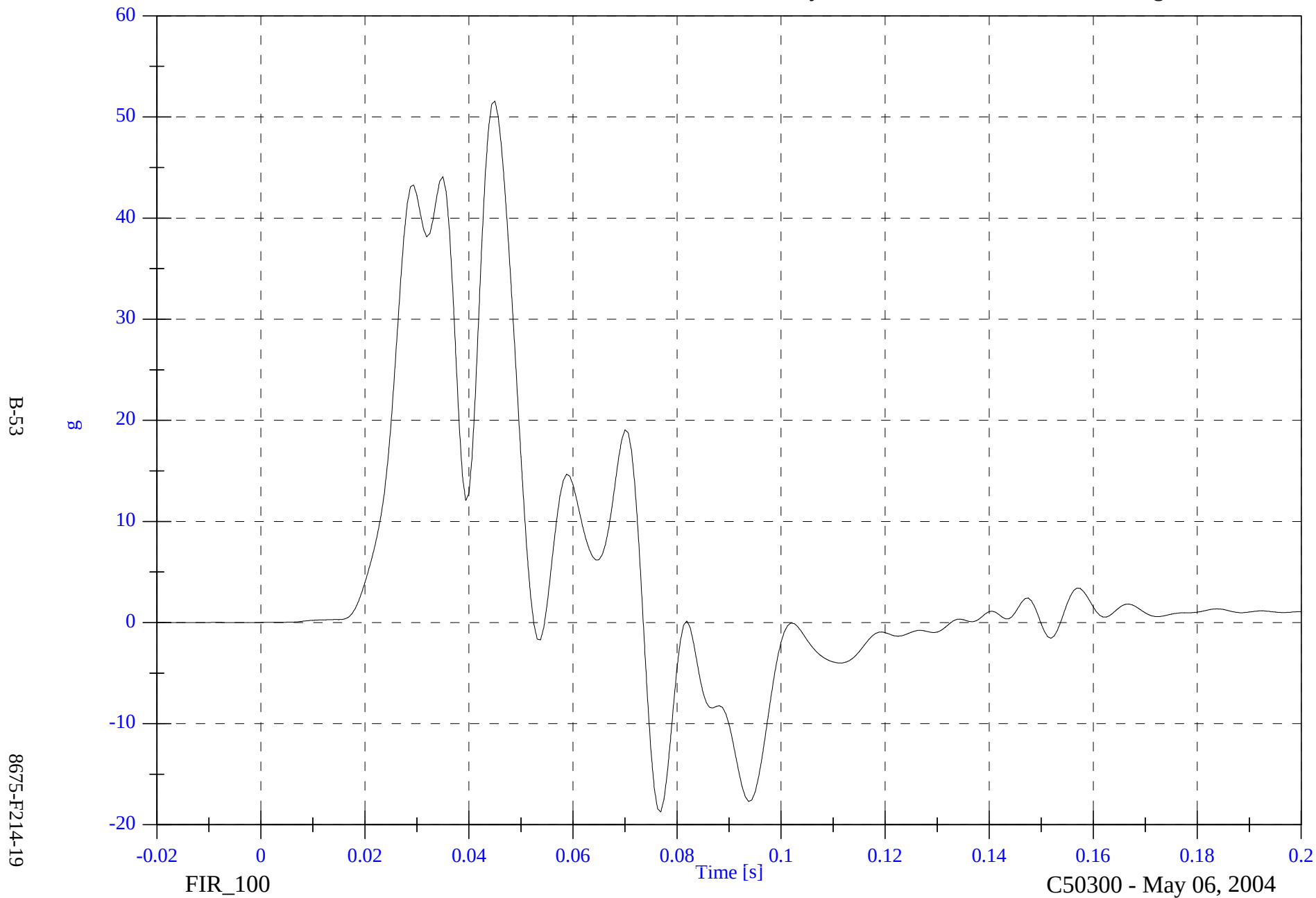
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Rib y

Max: 51.6 [g] at 0.045 [s]

Min: -18.7 [g] at 0.077 [s]

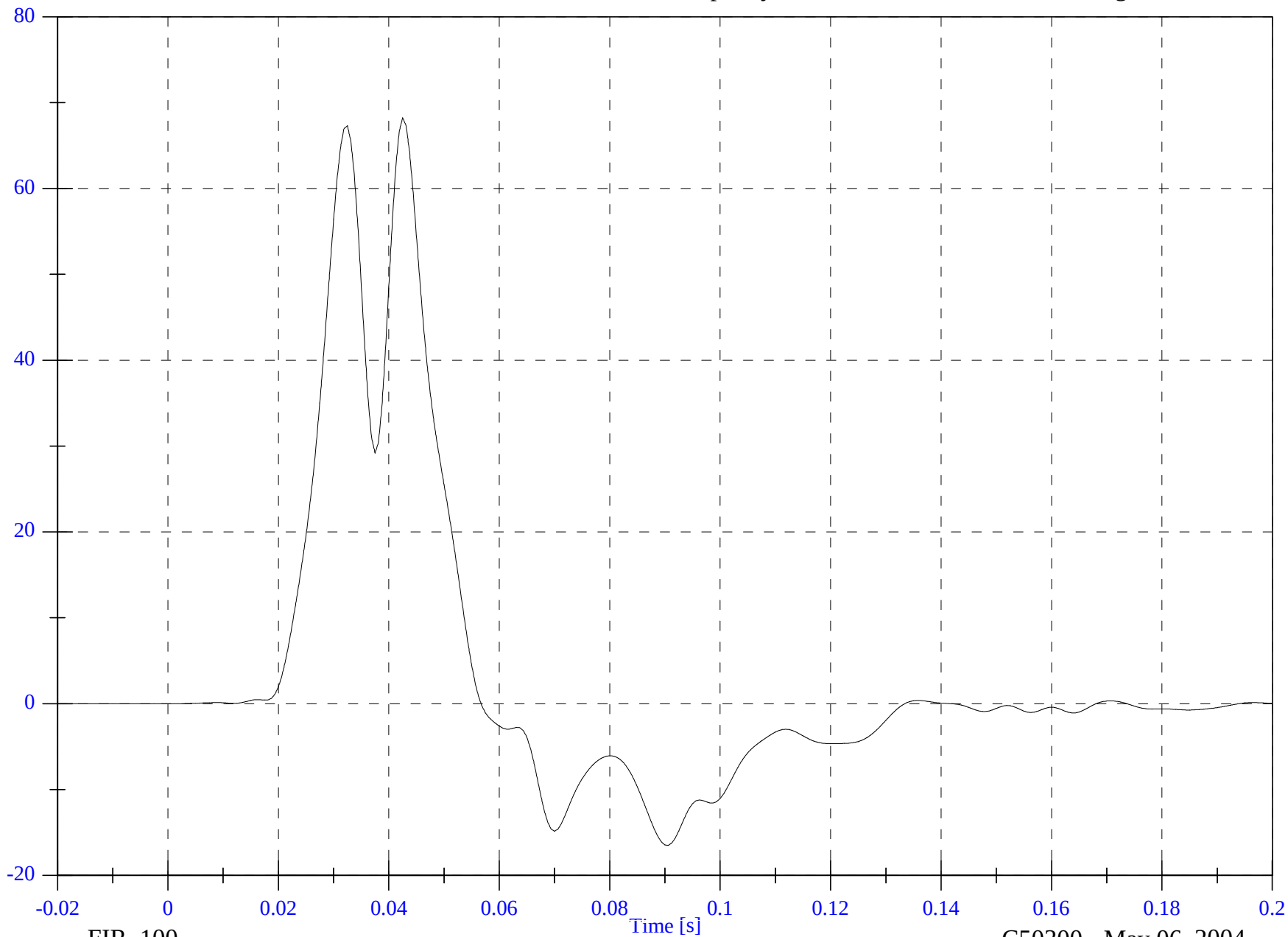


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Spine y

Max: 68.2 [g] at 0.043 [s]

Min: -16.5 [g] at 0.091 [s]



B-54

8675-F214-19

FIR_100

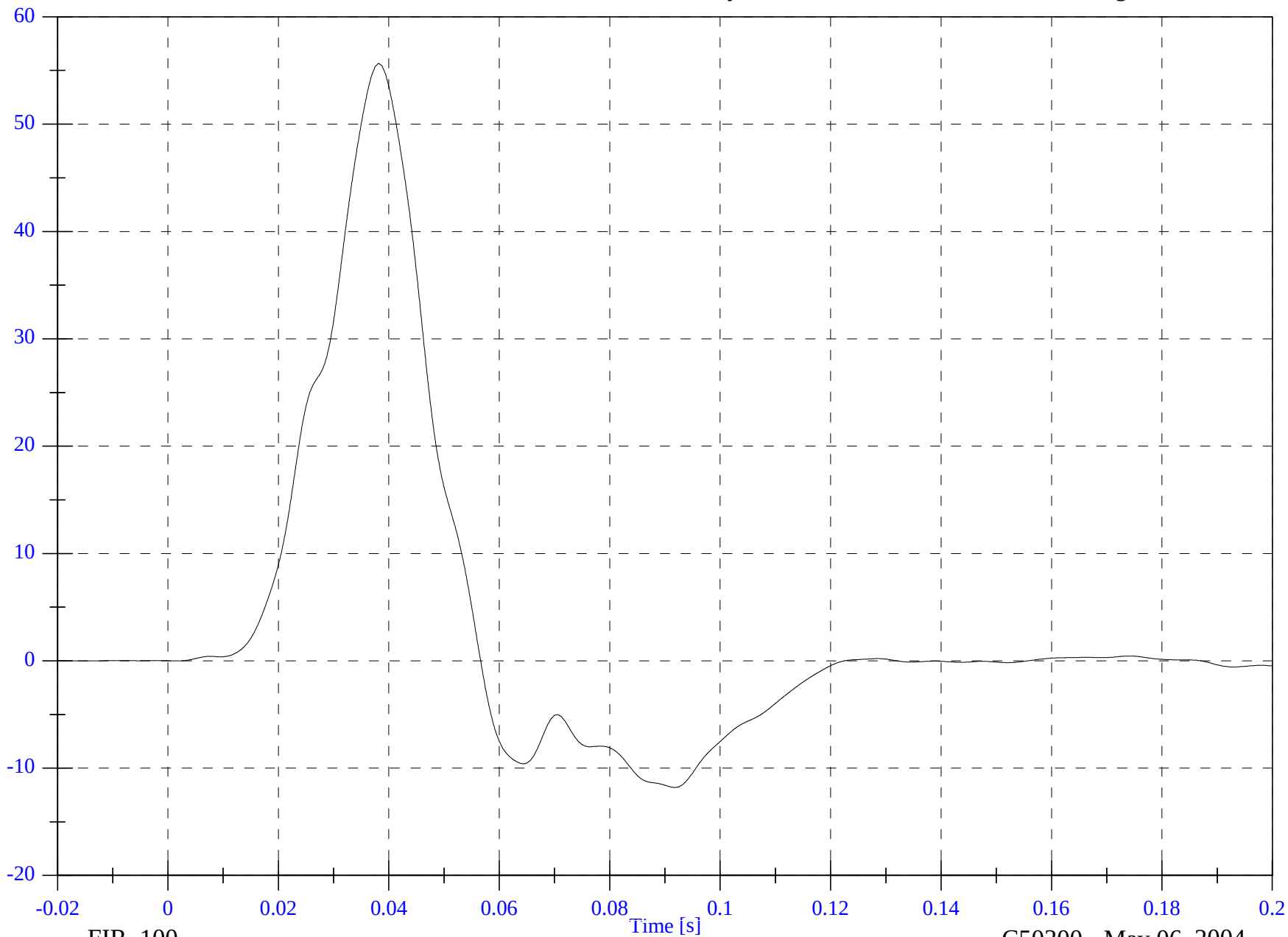
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Pelvic y

Max: 55.7 [g] at 0.038 [s]

Min: -11.8 [g] at 0.092 [s]



B-55

8675-F214-19

FIR_100

C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

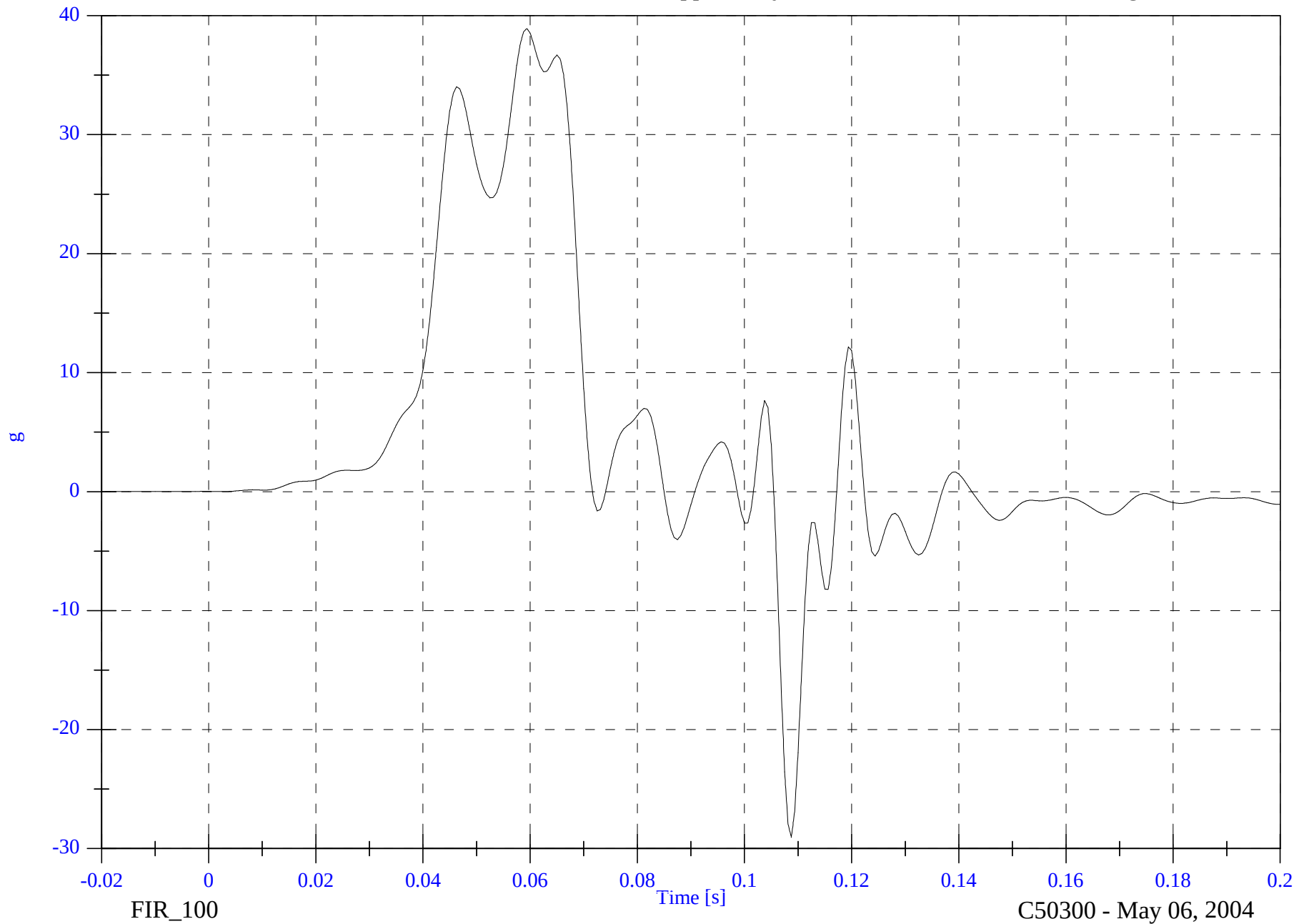
V2P4 Upper Rib y

Max: 38.9 [g] at 0.059 [s]

Min: -29.1 [g] at 0.109 [s]

B-56

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

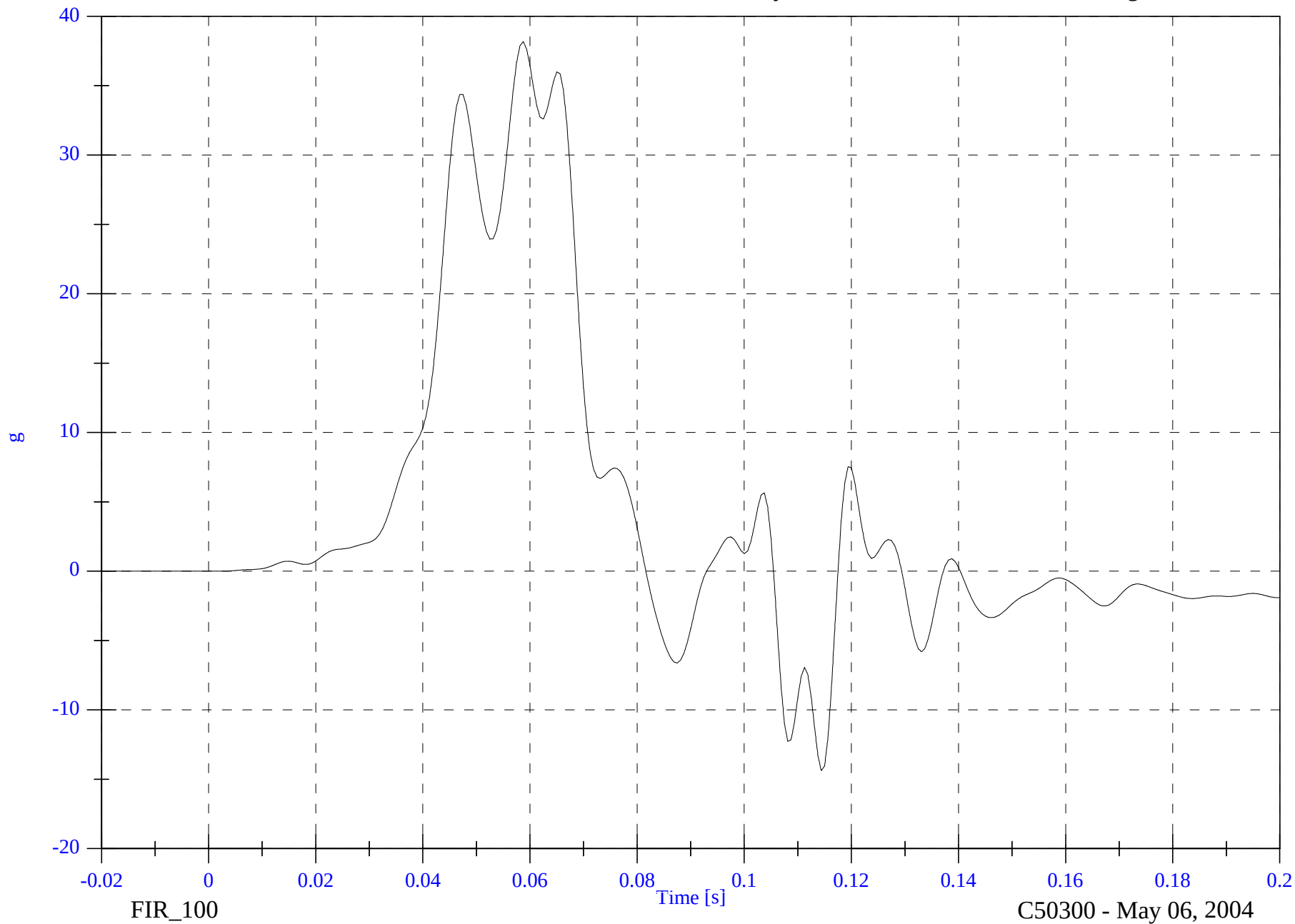
V2P4 Lower Rib y

Max: 38.2 [g] at 0.059 [s]

Min: -14.4 [g] at 0.114 [s]

B-57

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

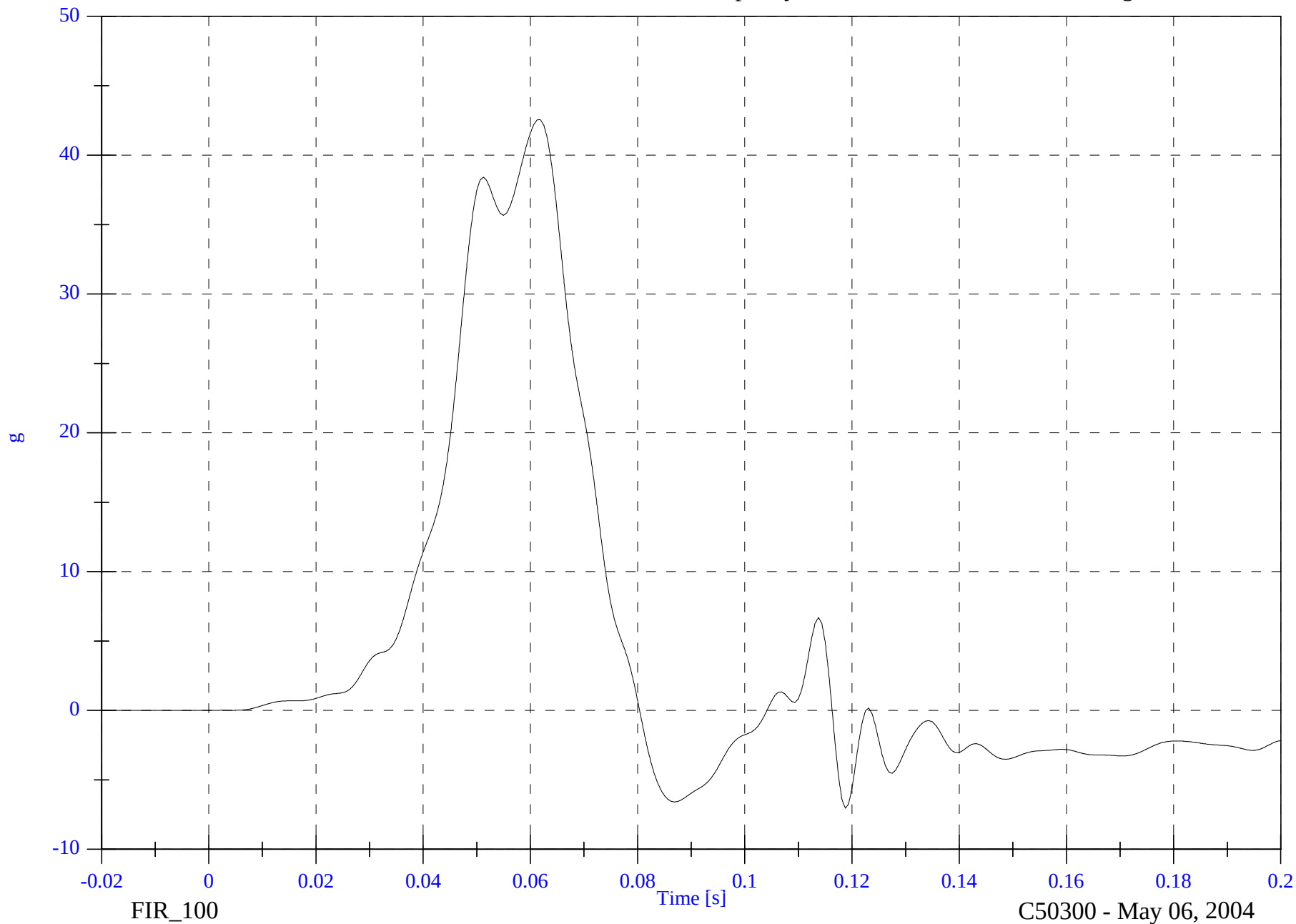
V2P4 Lower Spine y

Max: 42.6 [g] at 0.062 [s]

Min: -7.1 [g] at 0.119 [s]

B-58

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

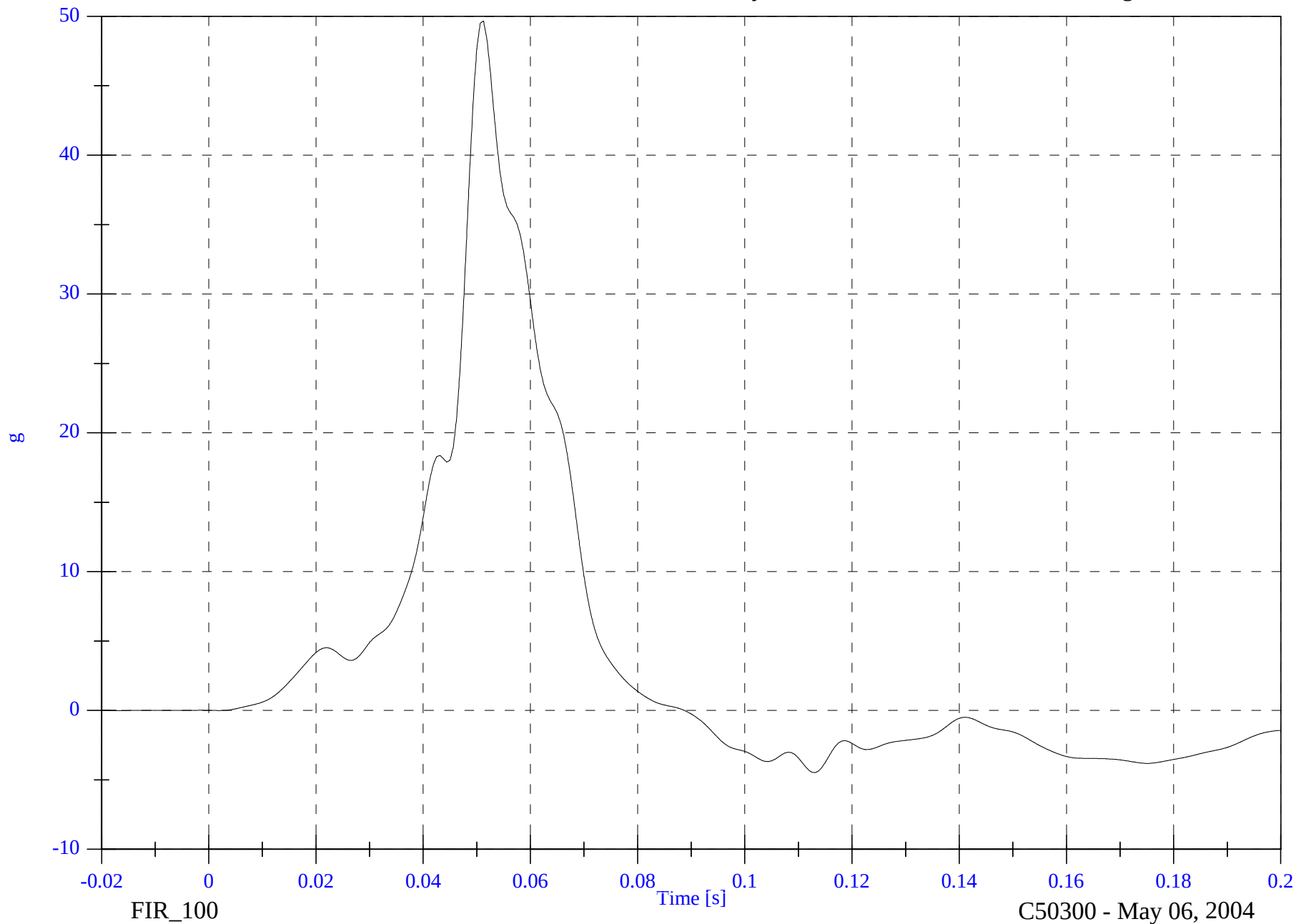
V2P4 Pelvic y

Max: 49.7 [g] at 0.051 [s]

Min: -4.5 [g] at 0.113 [s]

B-59

8675-F214-19

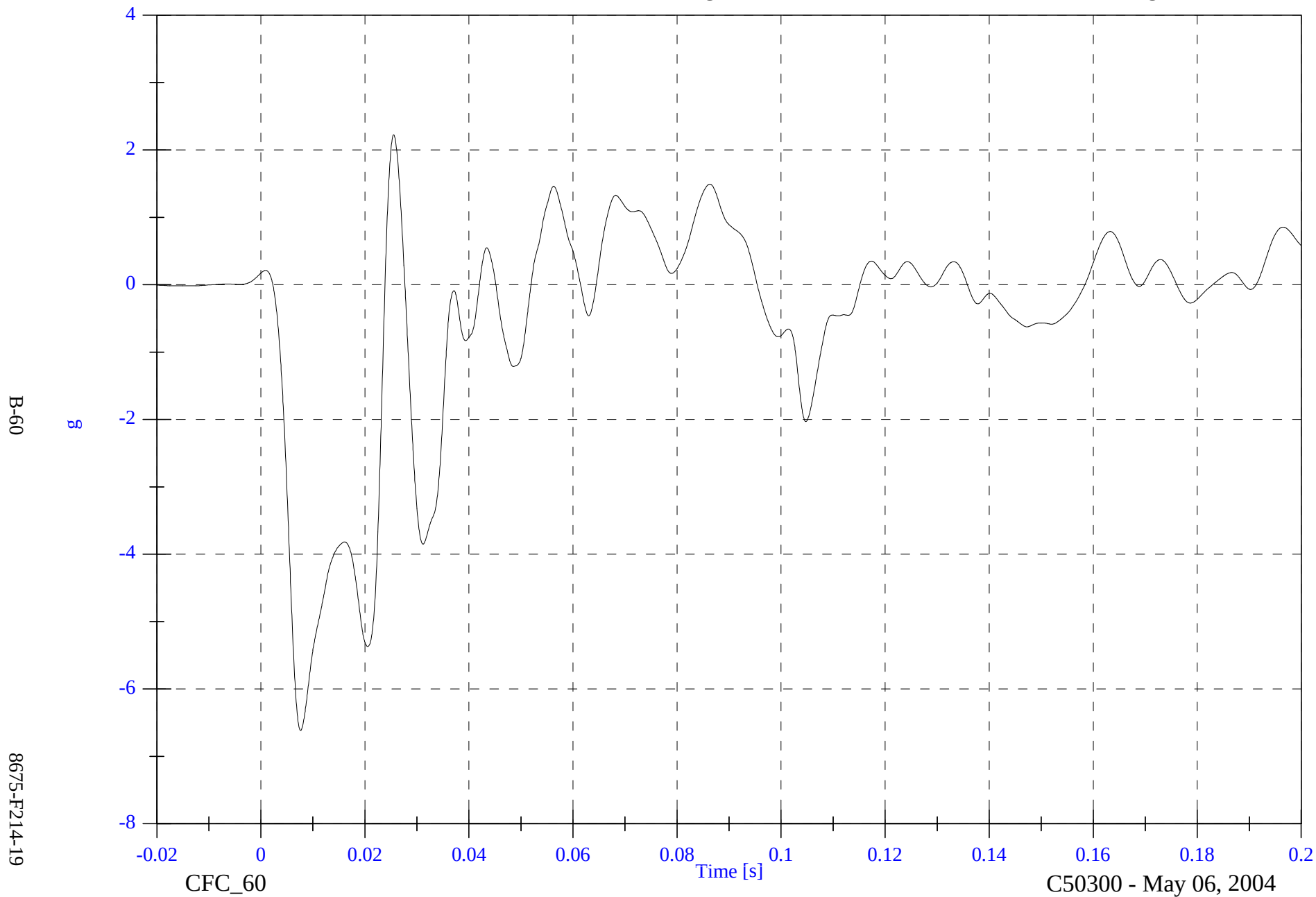


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A1 Right Front Sill x

Max: 2.2 [g] at 0.026 [s]

Min: -6.6 [g] at 0.008 [s]



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A1 Right Front Sill x Velocity

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

Min: -4.0 [kph] at 0.051 [s]



B-61

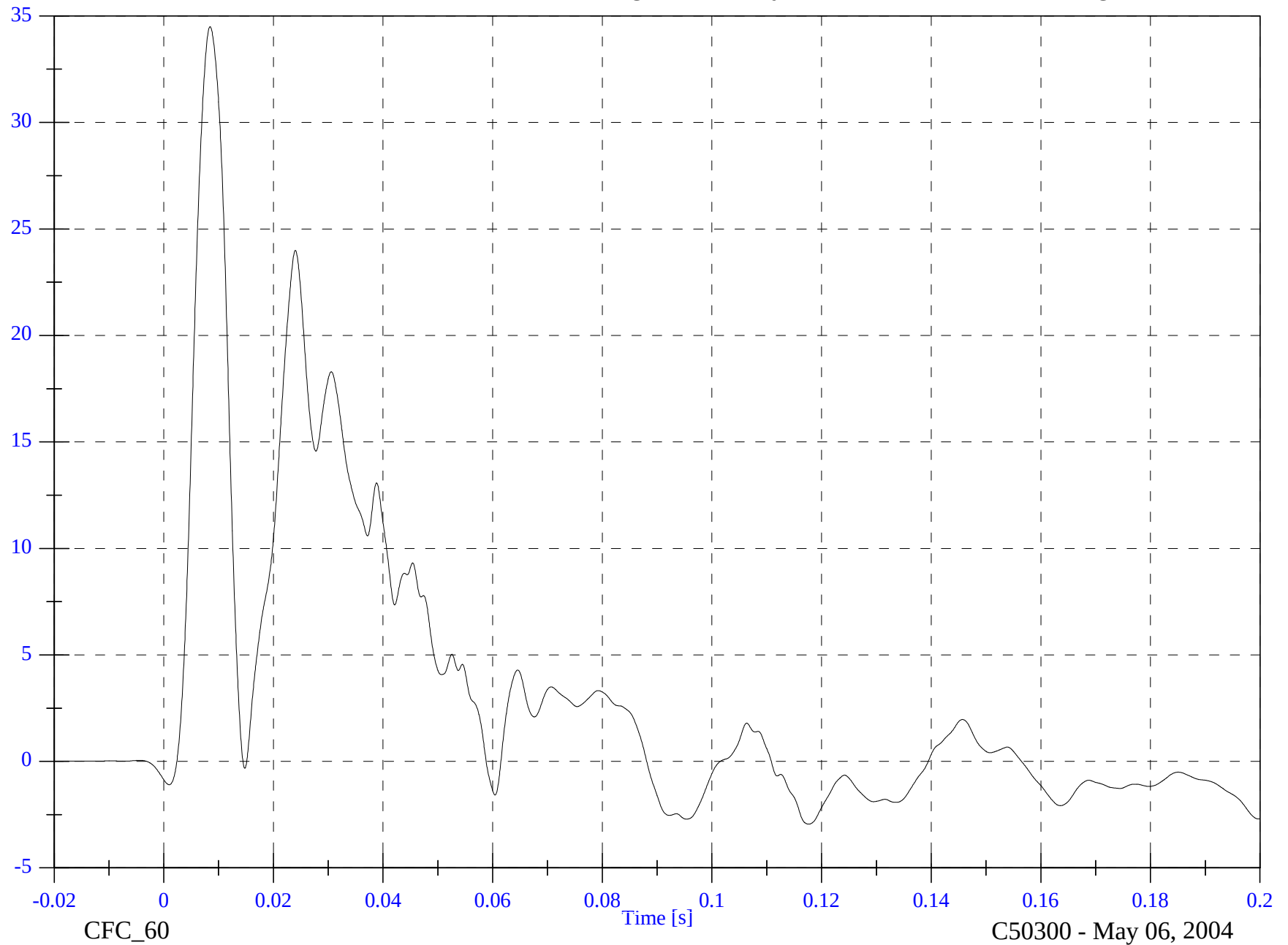
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A1 Right Front Sill y

Max: 34.5 [g] at 0.008 [s]

Min: -2.9 [g] at 0.118 [s]



B-62

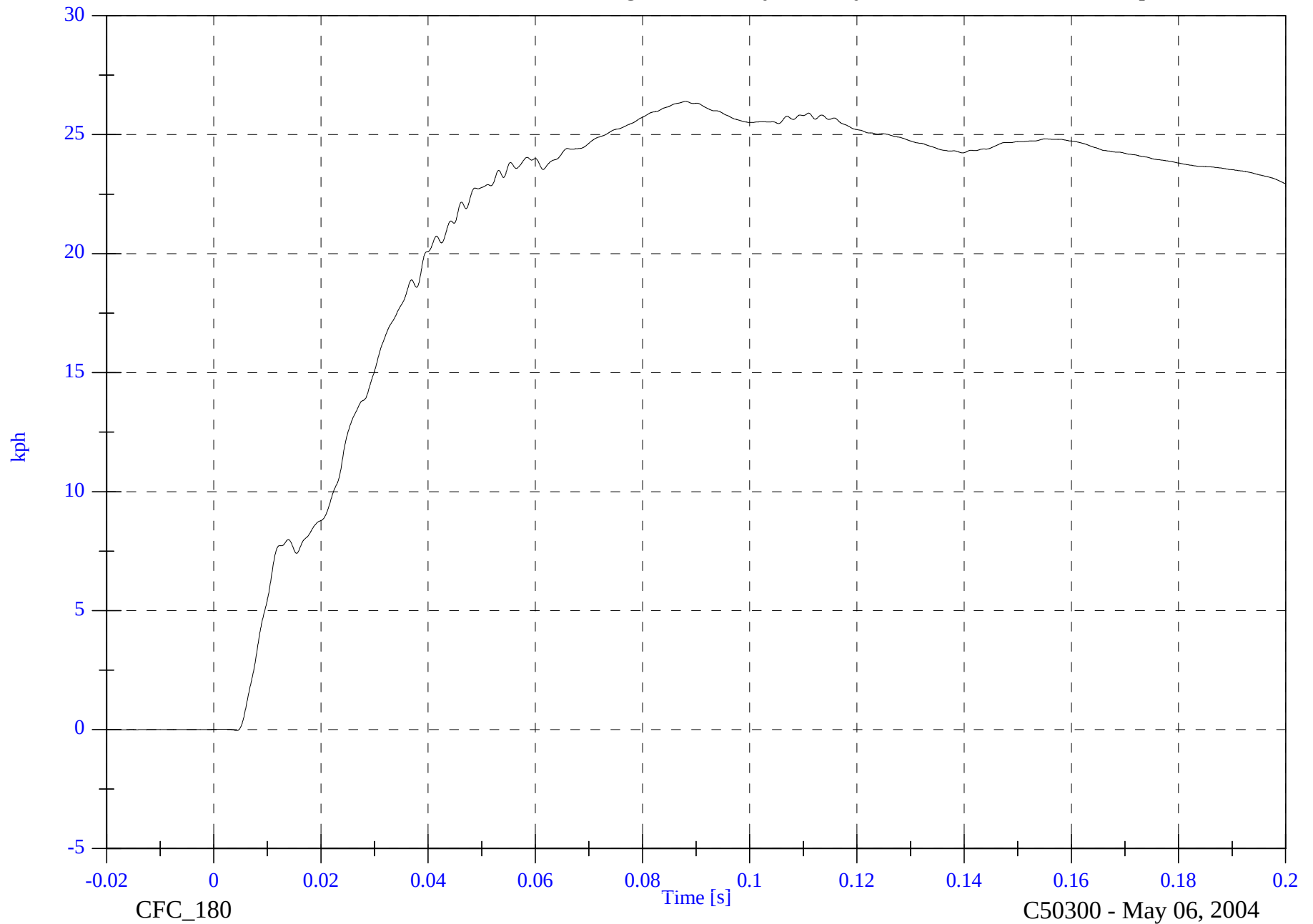
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A1 Right Front Sill y Velocity

Max: 26.4 [kph] at 0.088 [s]

Min: -0.0 [kph] at 0.004 [s]



B-63

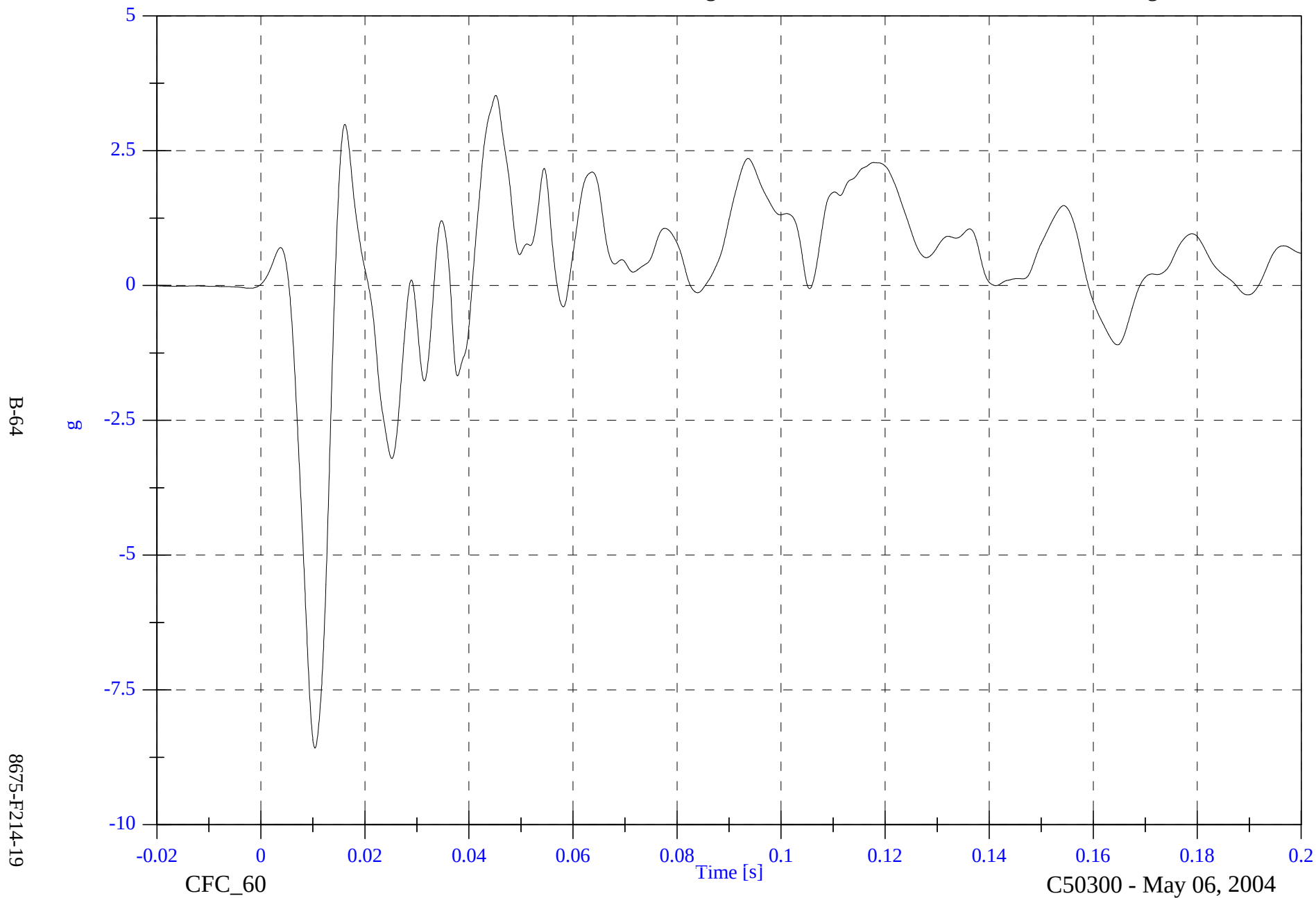
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A1 Right Front Sill z

Max: 3.5 [g] at 0.045 [s]

Min: -8.6 [g] at 0.010 [s]

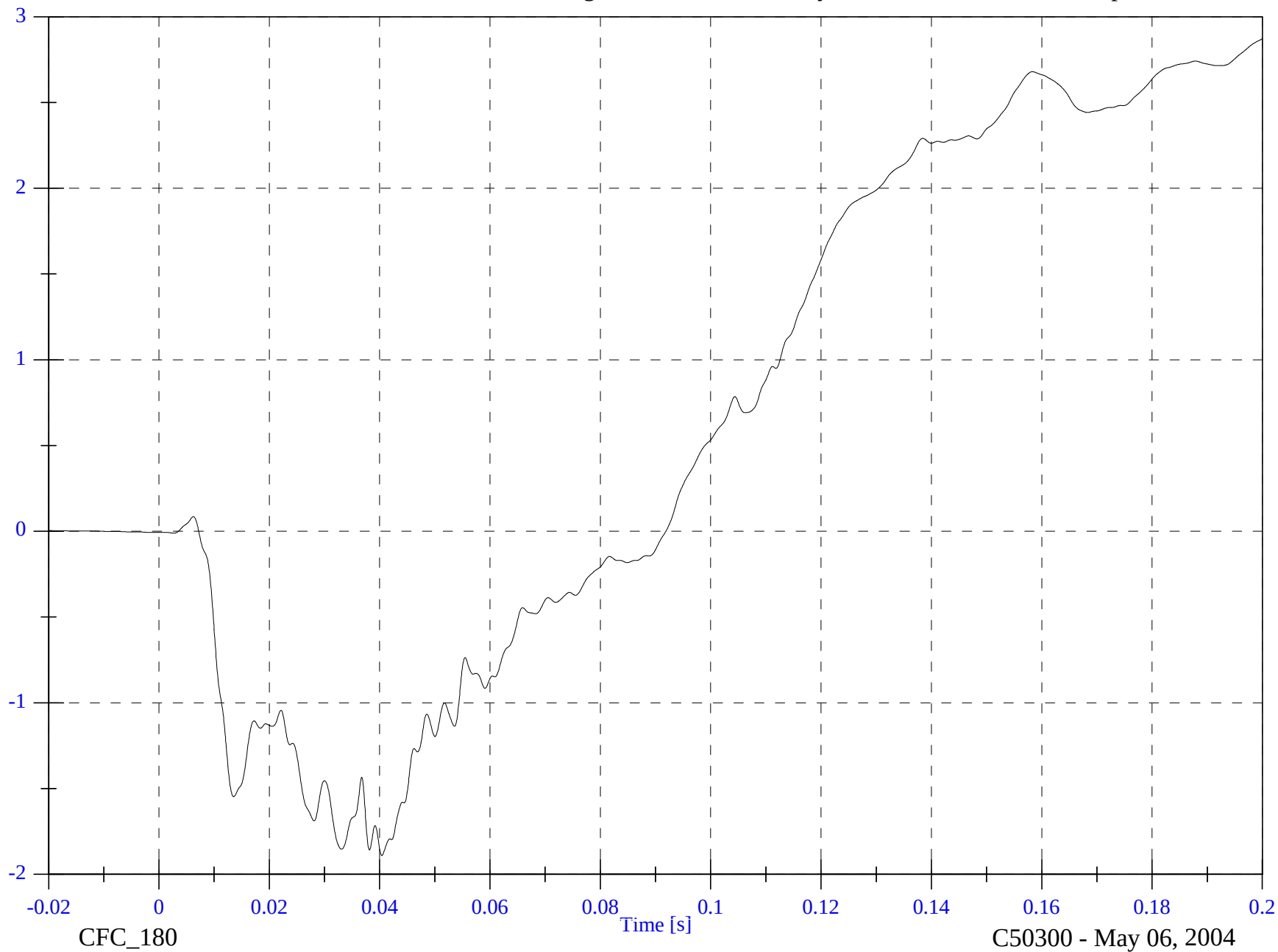


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A1 Right Front Sill z Velocity

Max: 2.9 [kph] at 0.200 [s]

Min: -1.9 [kph] at 0.040 [s]



B-65

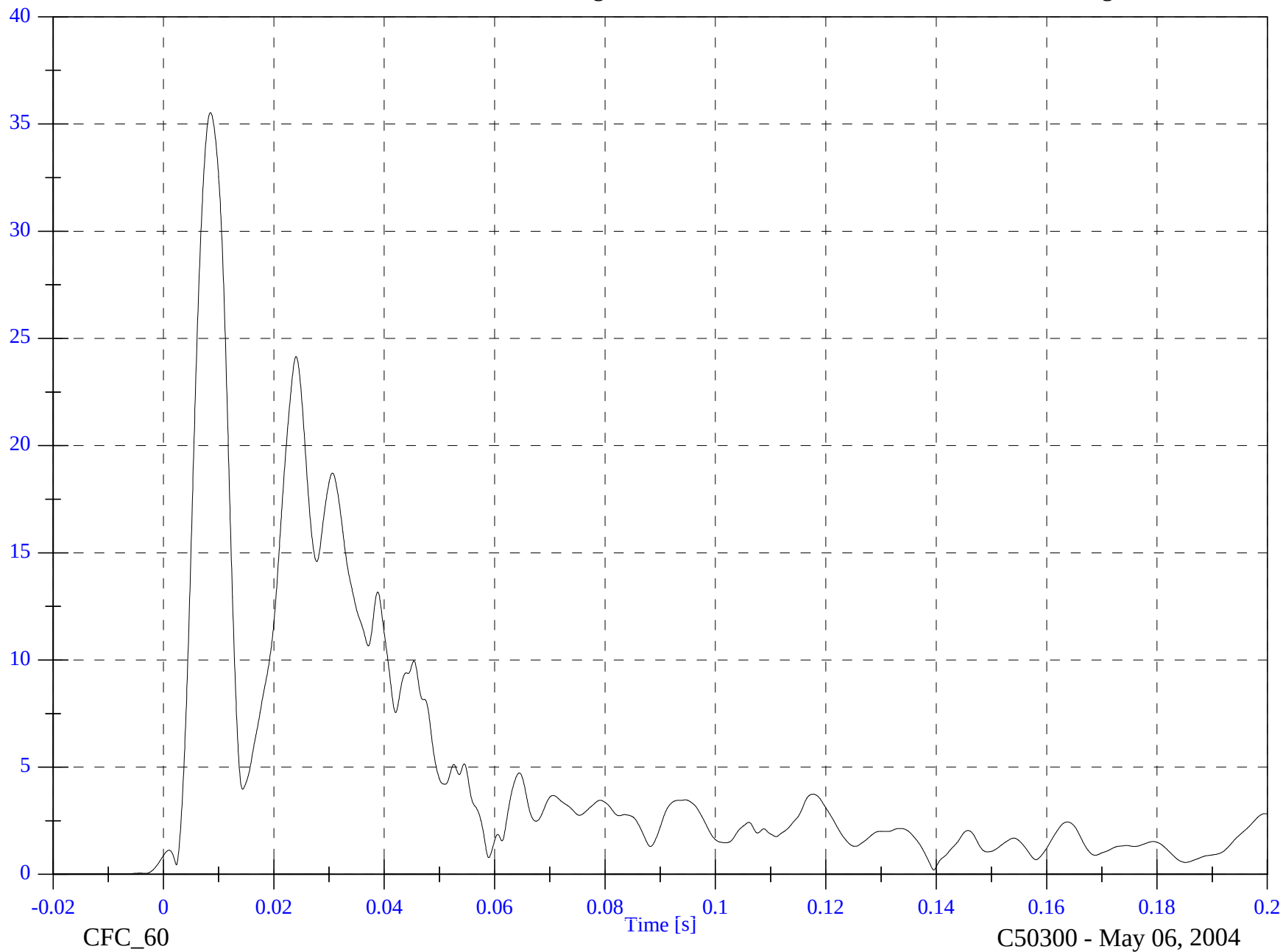
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A1 Right Front Sill Resultant

Max: 35.5 [g] at 0.009 [s]

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



B-66

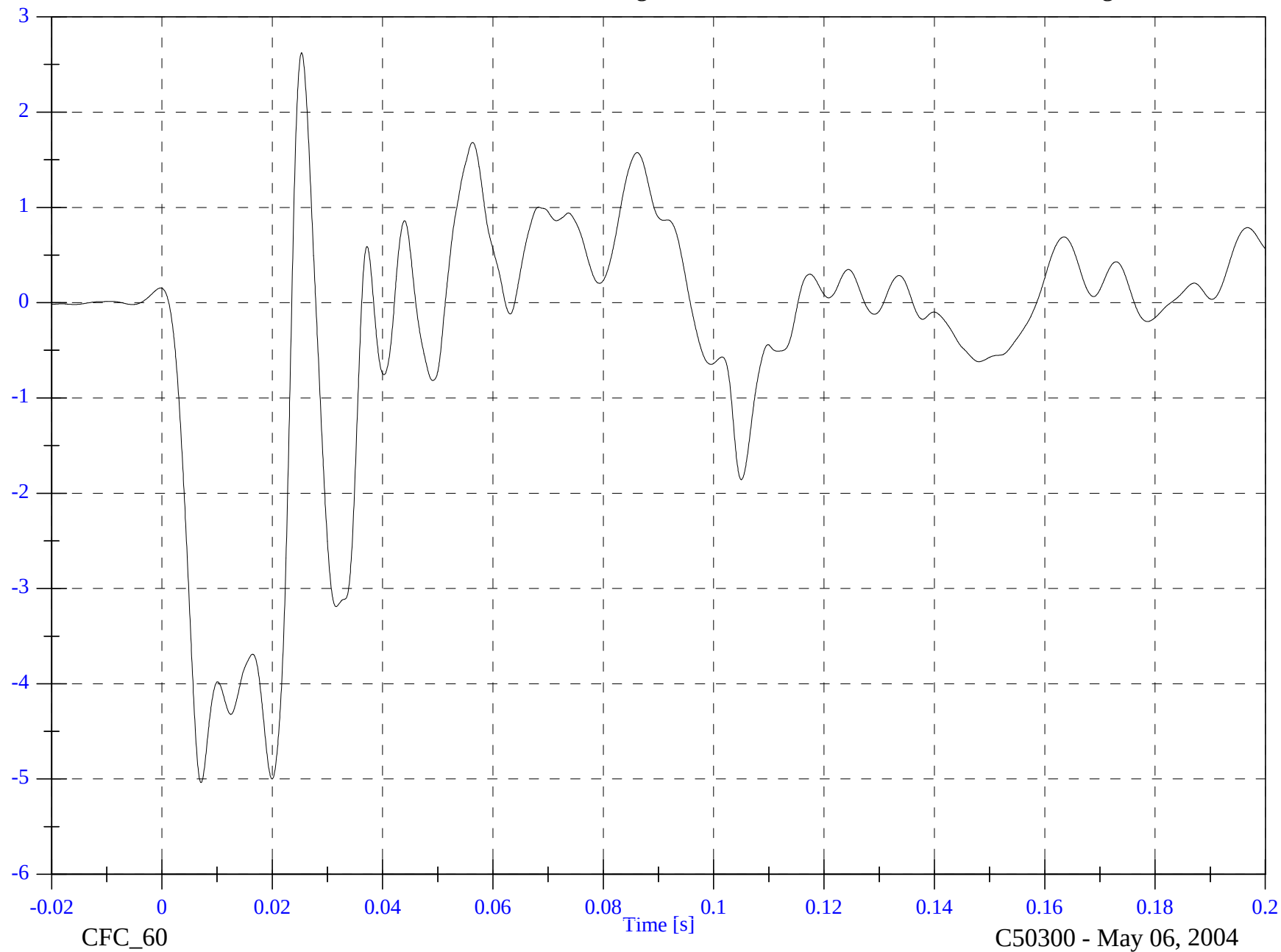
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A2 Right Rear Sill x

Max: 2.6 [g] at 0.025 [s]

Min: -5.0 [g] at 0.007 [s]



B-67

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A2 Right Rear Sill x Velocity

Max: 0.0 [kph] at 0.002 [s]

Min: -3.3 [kph] at 0.036 [s]



B-68

8675-F214-19

CFC_180

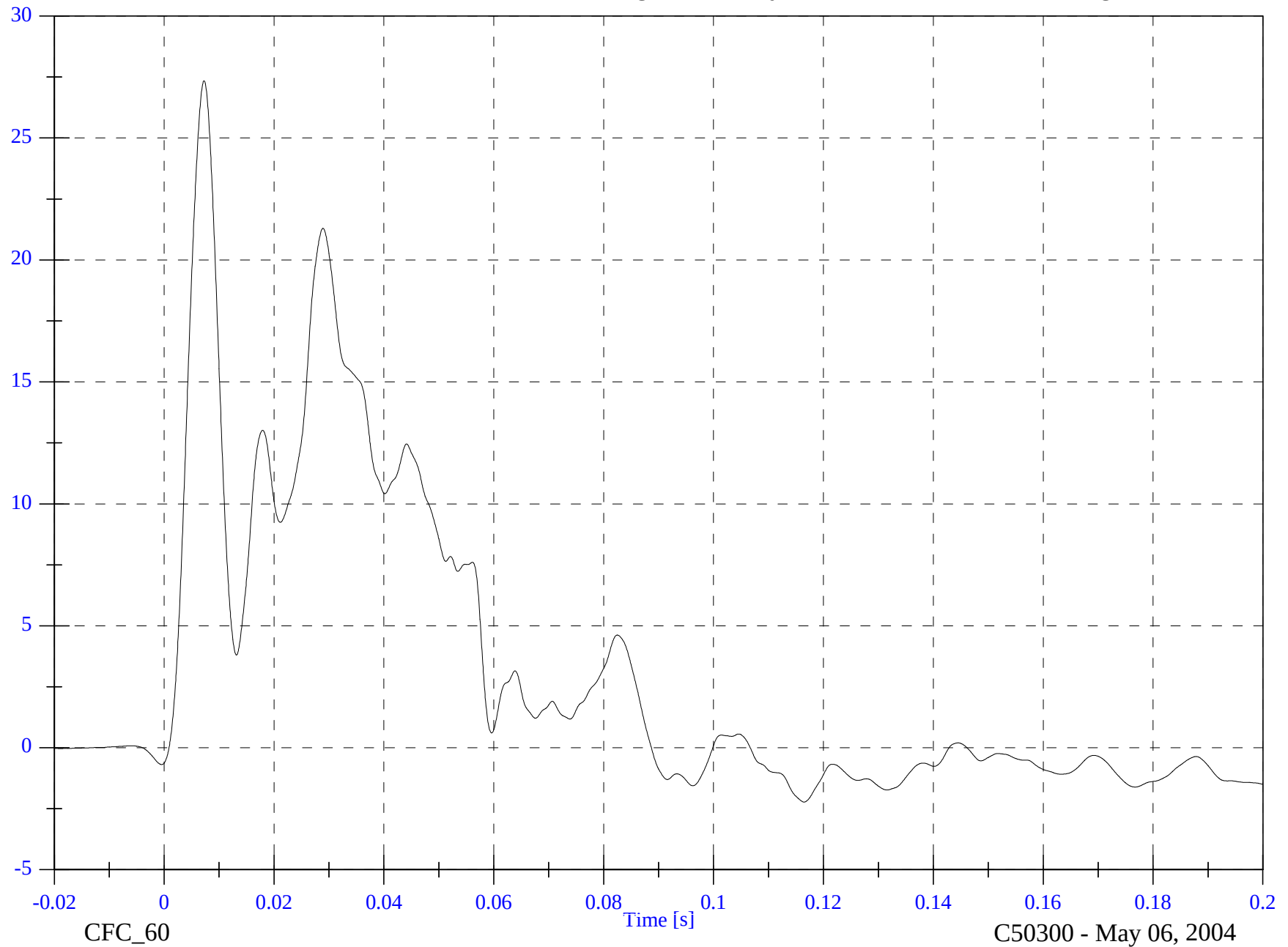
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A2 Right Rear Sill y

Max: 27.3 [g] at 0.007 [s]

Min: -2.2 [g] at 0.117 [s]



B-69

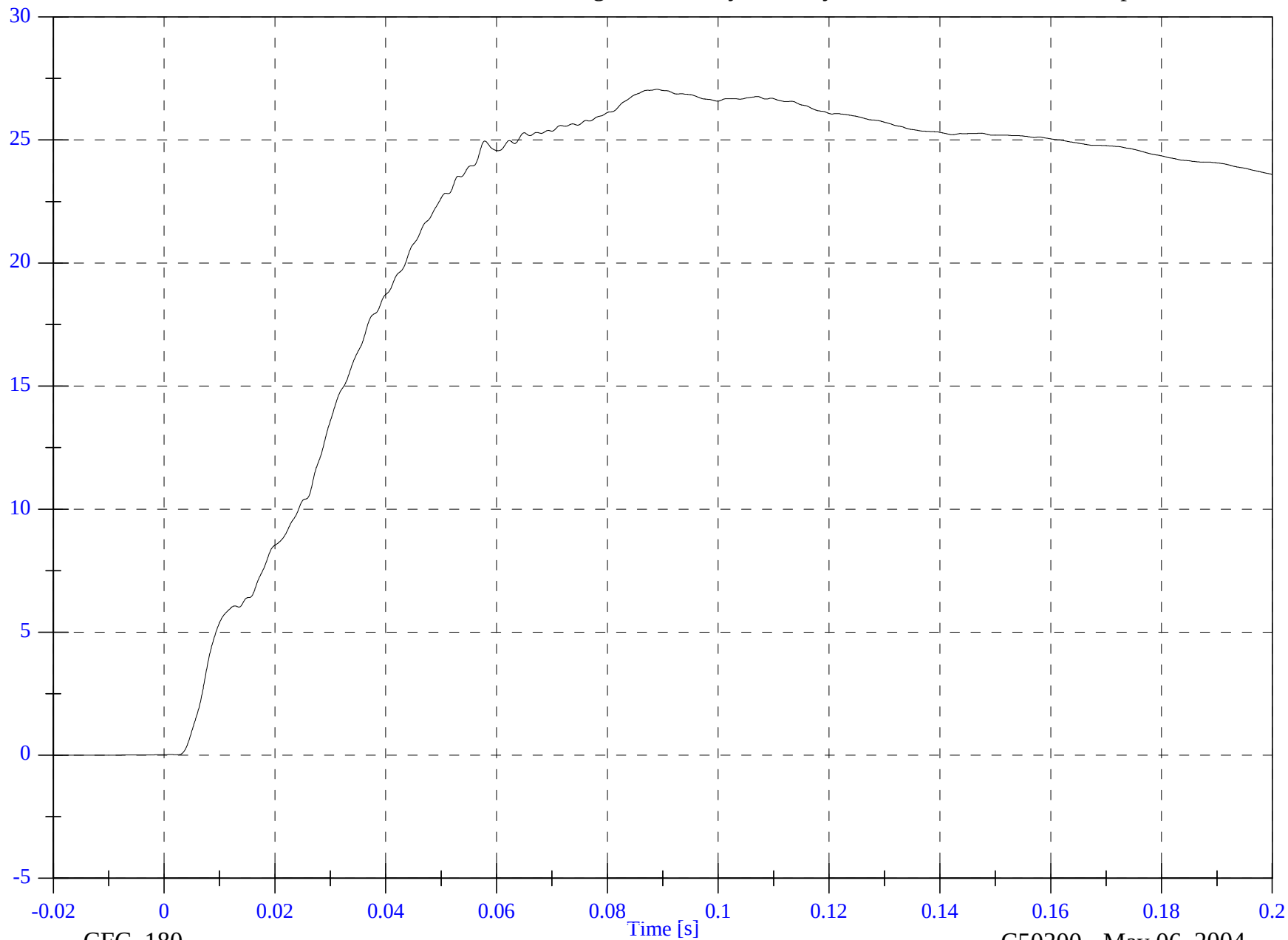
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A2 Right Rear Sill y Velocity

Max: 27.1 [kph] at 0.089 [s]

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



B-70

8675-F214-19

CFC_180

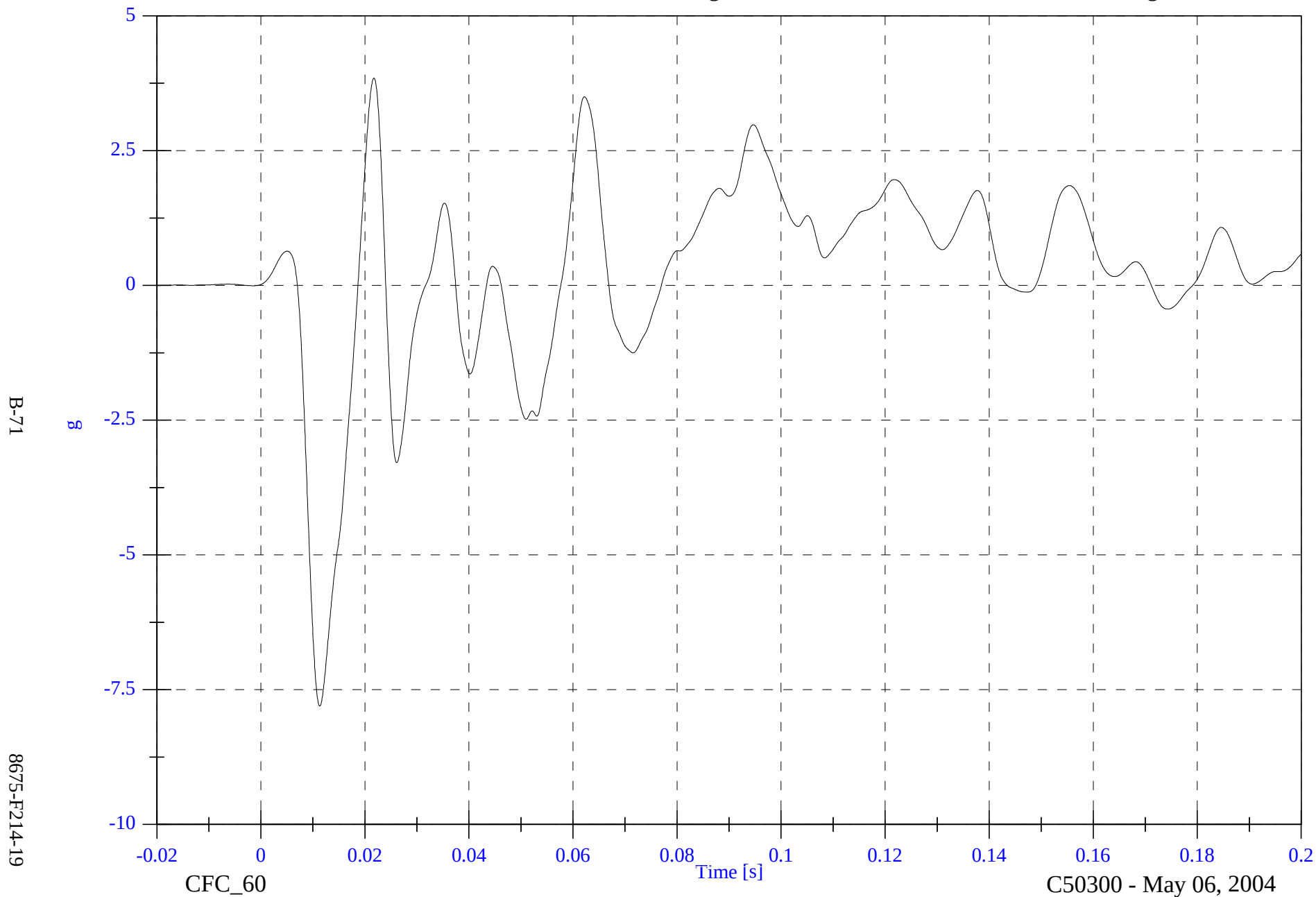
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A2 Right Rear Sill z

Max: 3.8 [g] at 0.022 [s]

Min: -7.8 [g] at 0.011 [s]



B-71

8675-F214-19

CFC_60

Time [s]

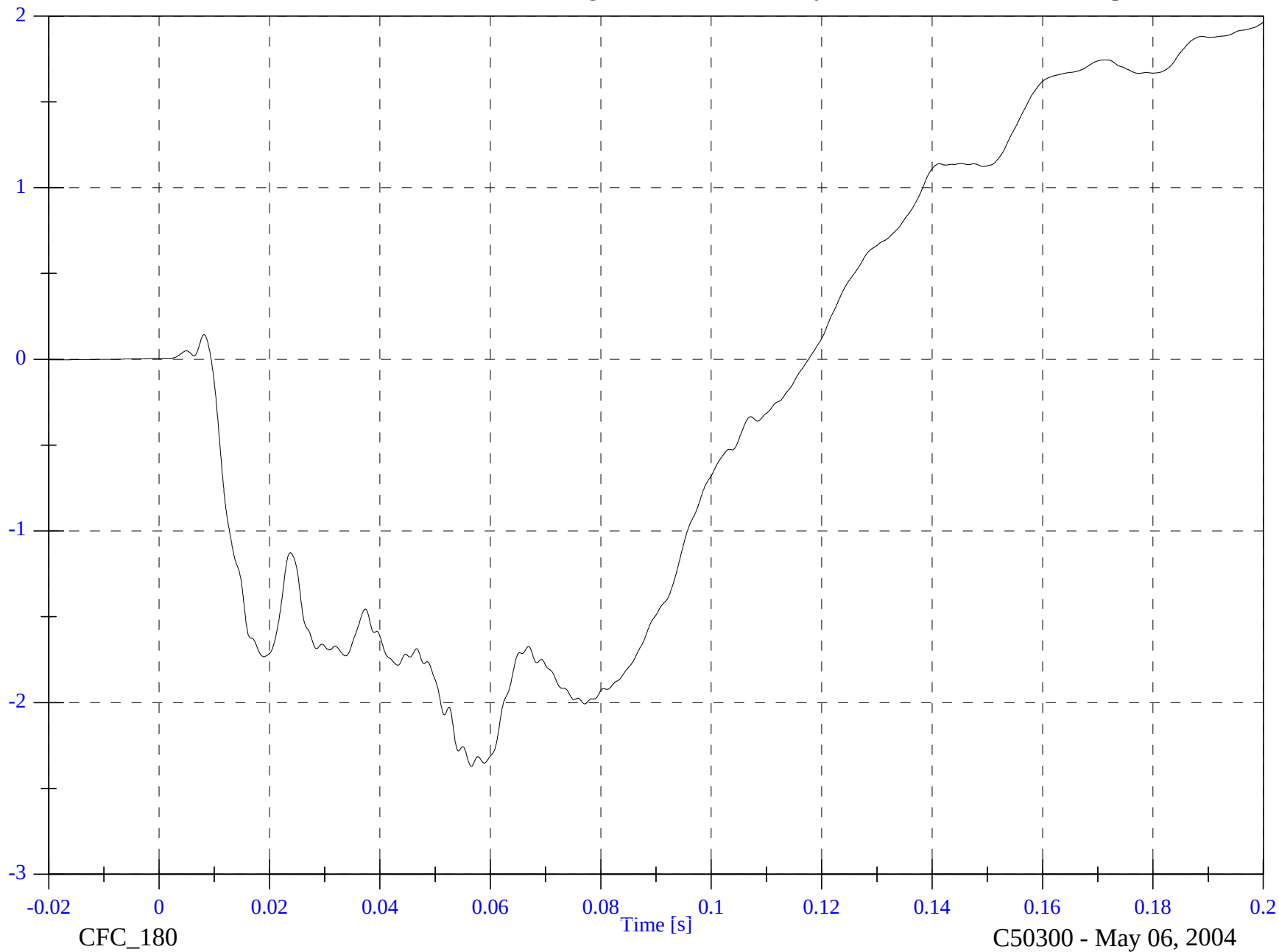
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A2 Right Rear Sill z Velocity

Max: 2.0 [kph] at 0.200 [s]

Min: -2.4 [kph] at 0.057 [s]



B-72

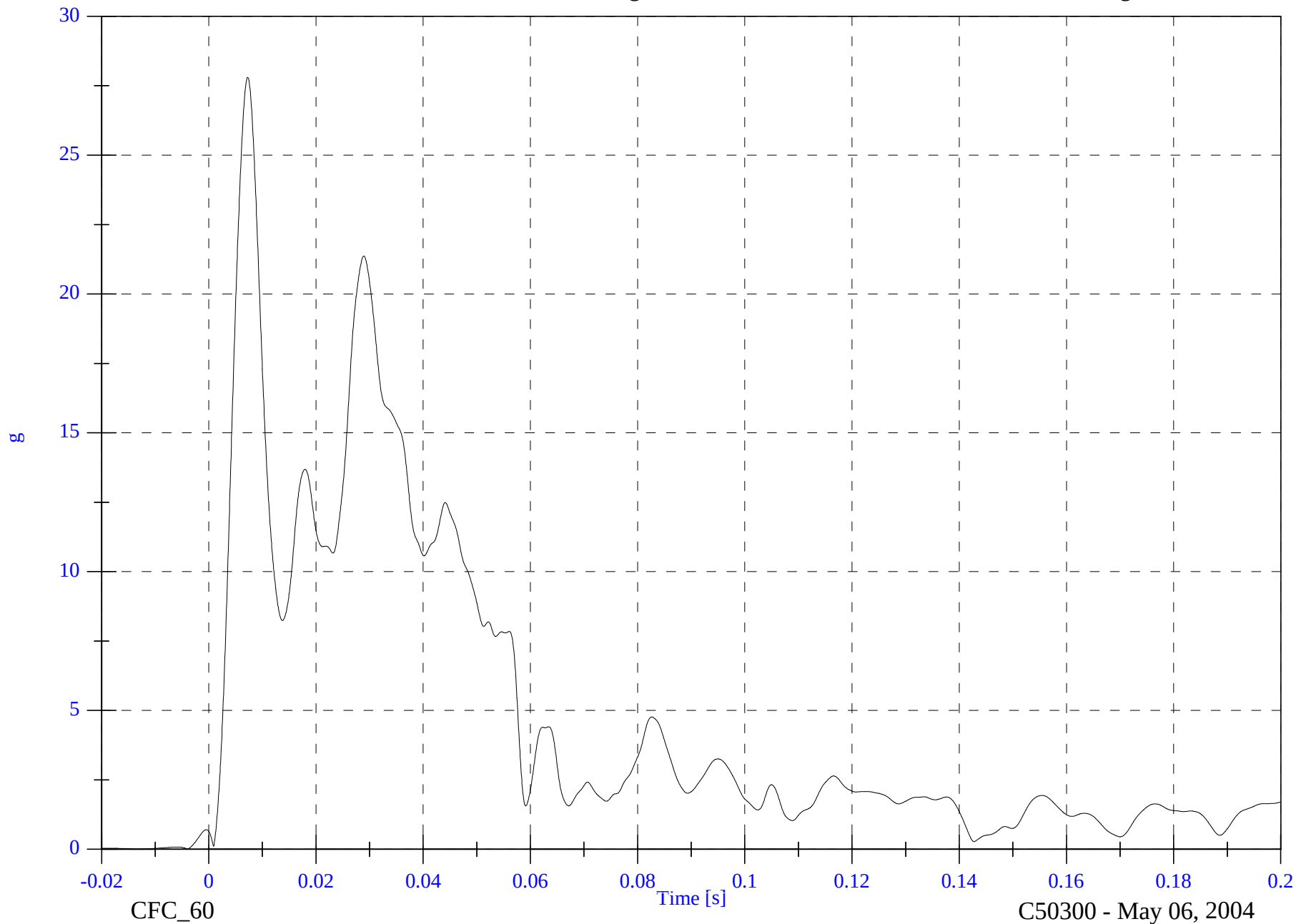
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A2 Right Rear Sill Resultant

Max: 27.8 [g] at 0.007 [s]

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



B-73

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

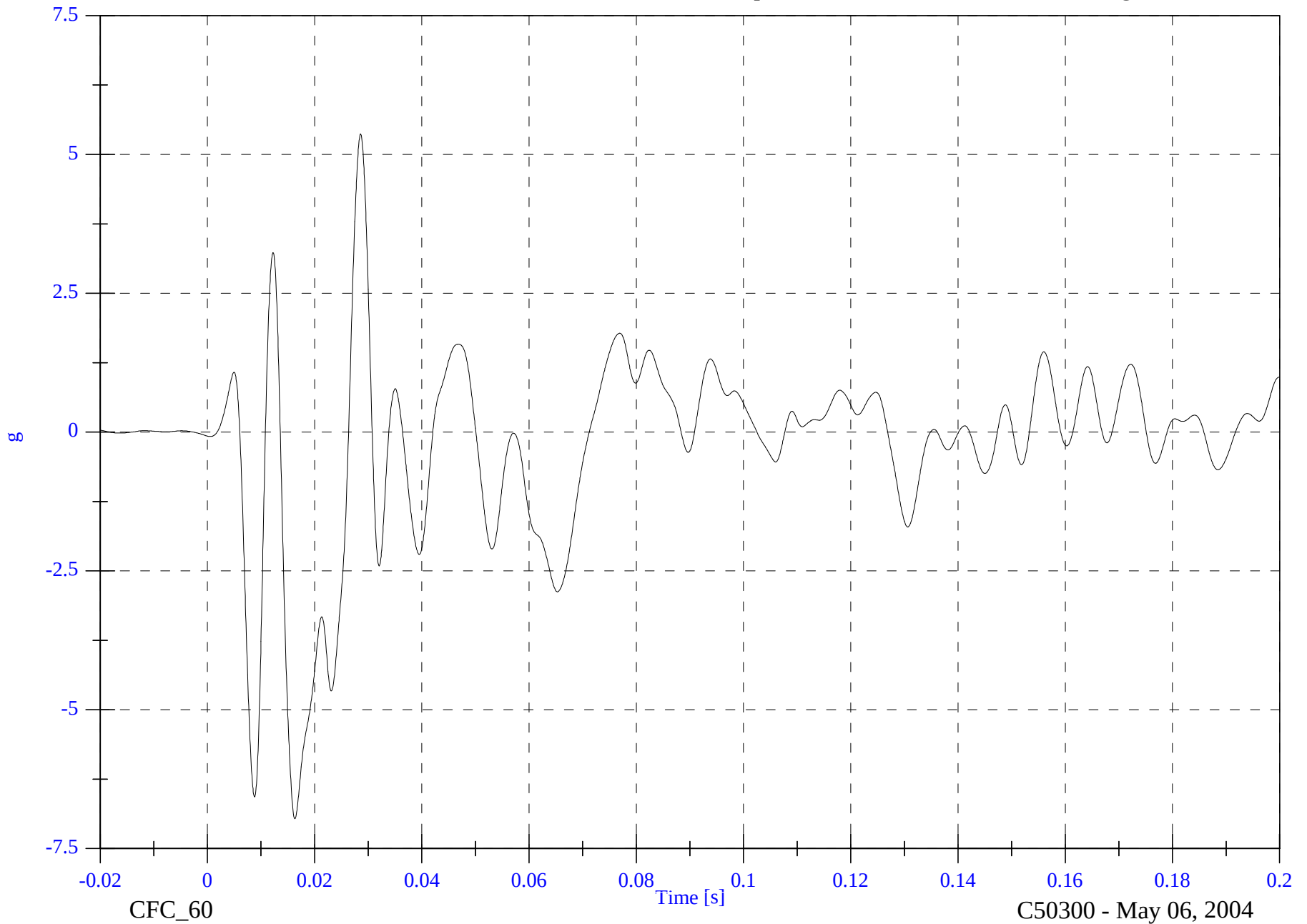
V2 A3 Rear Floorpan x

Max: 5.4 [g] at 0.029 [s]

Min: -7.0 [g] at 0.016 [s]

B-74

8675-F214-19

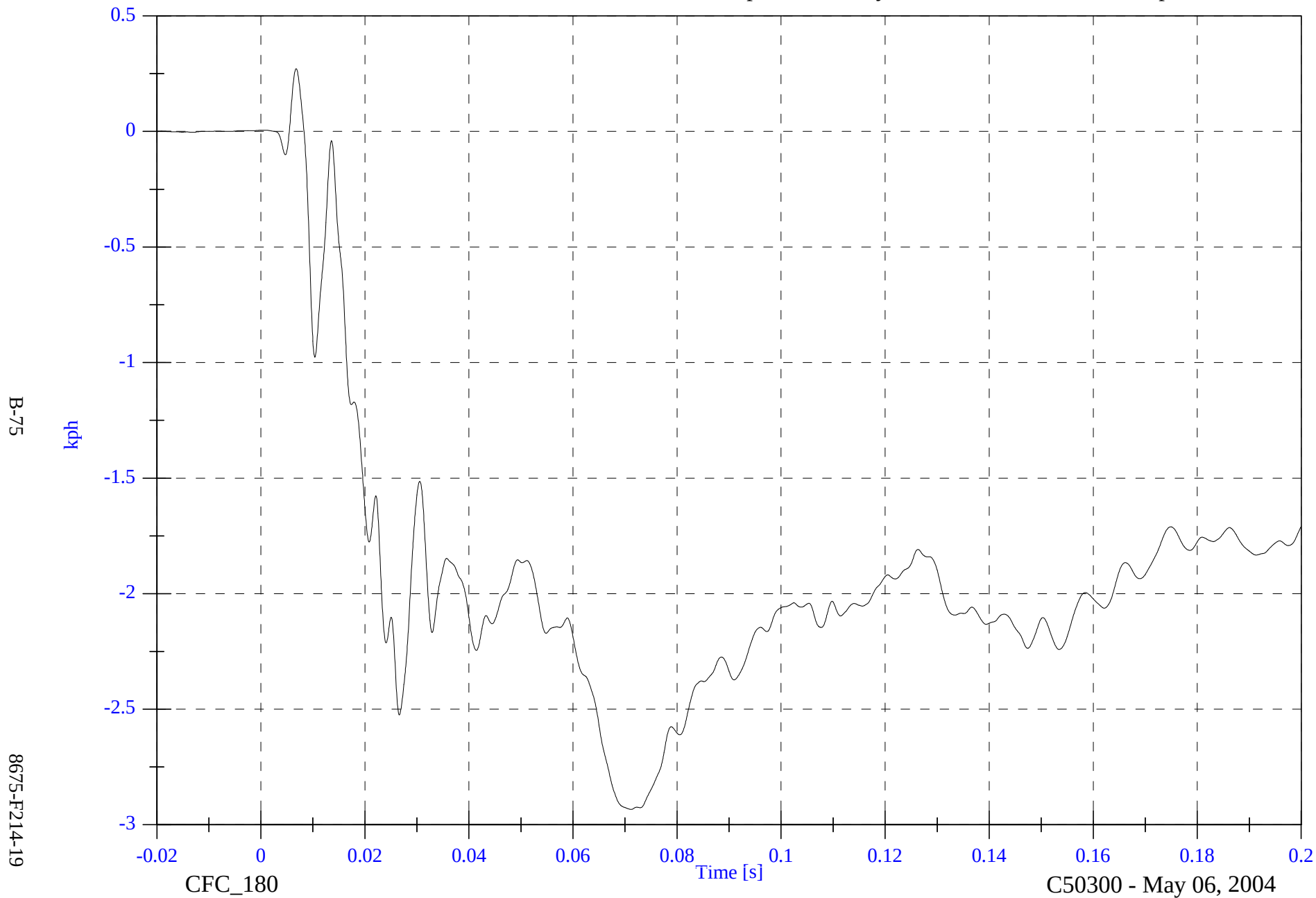


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A3 Rear Floorpan x Velocity

Max: 0.3 [kph] at 0.007 [s]

Min: -2.9 [kph] at 0.071 [s]

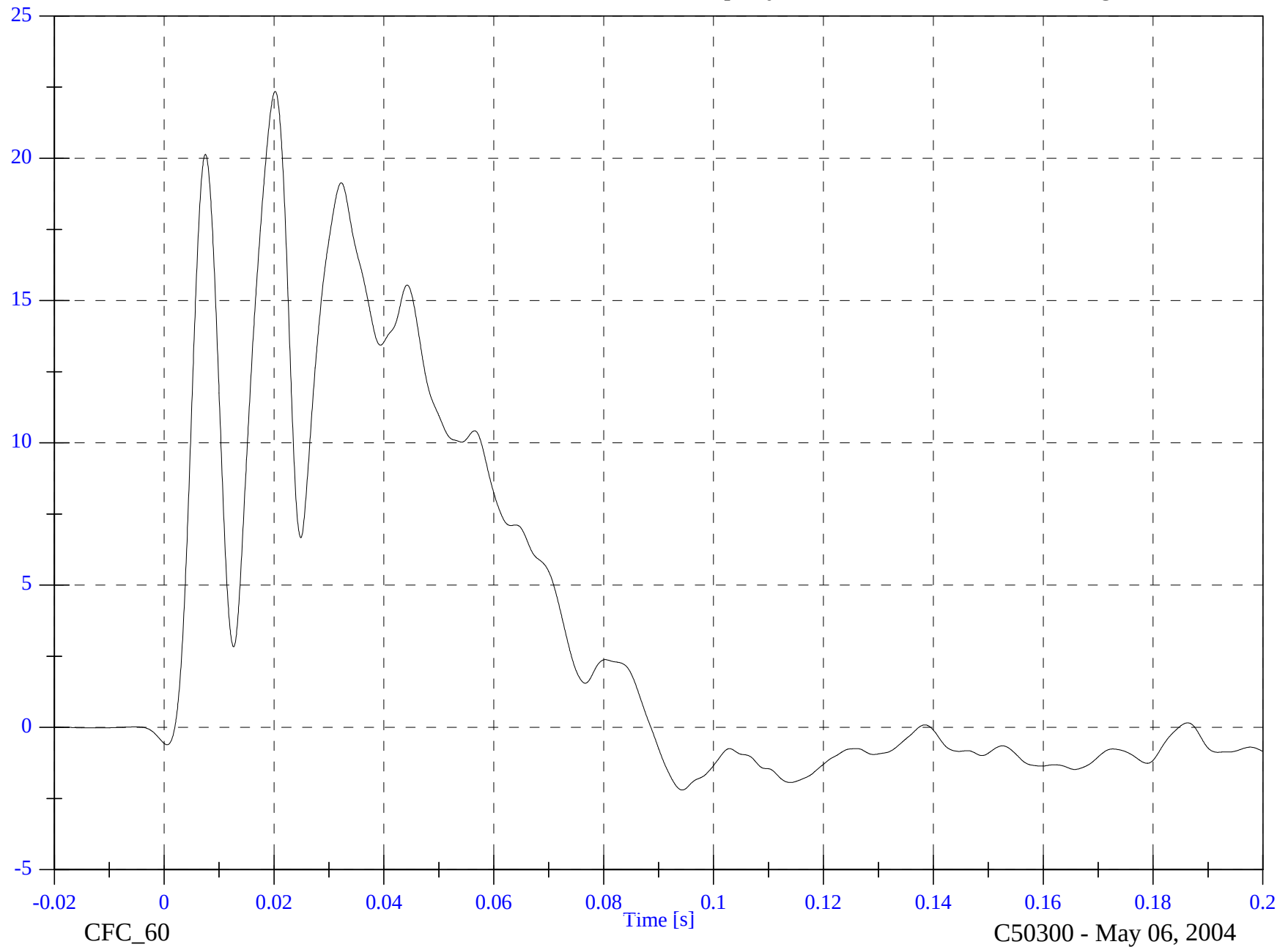


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A3 Rear Floorpan y

Max: 22.3 [g] at 0.020 [s]

Min: -2.2 [g] at 0.094 [s]

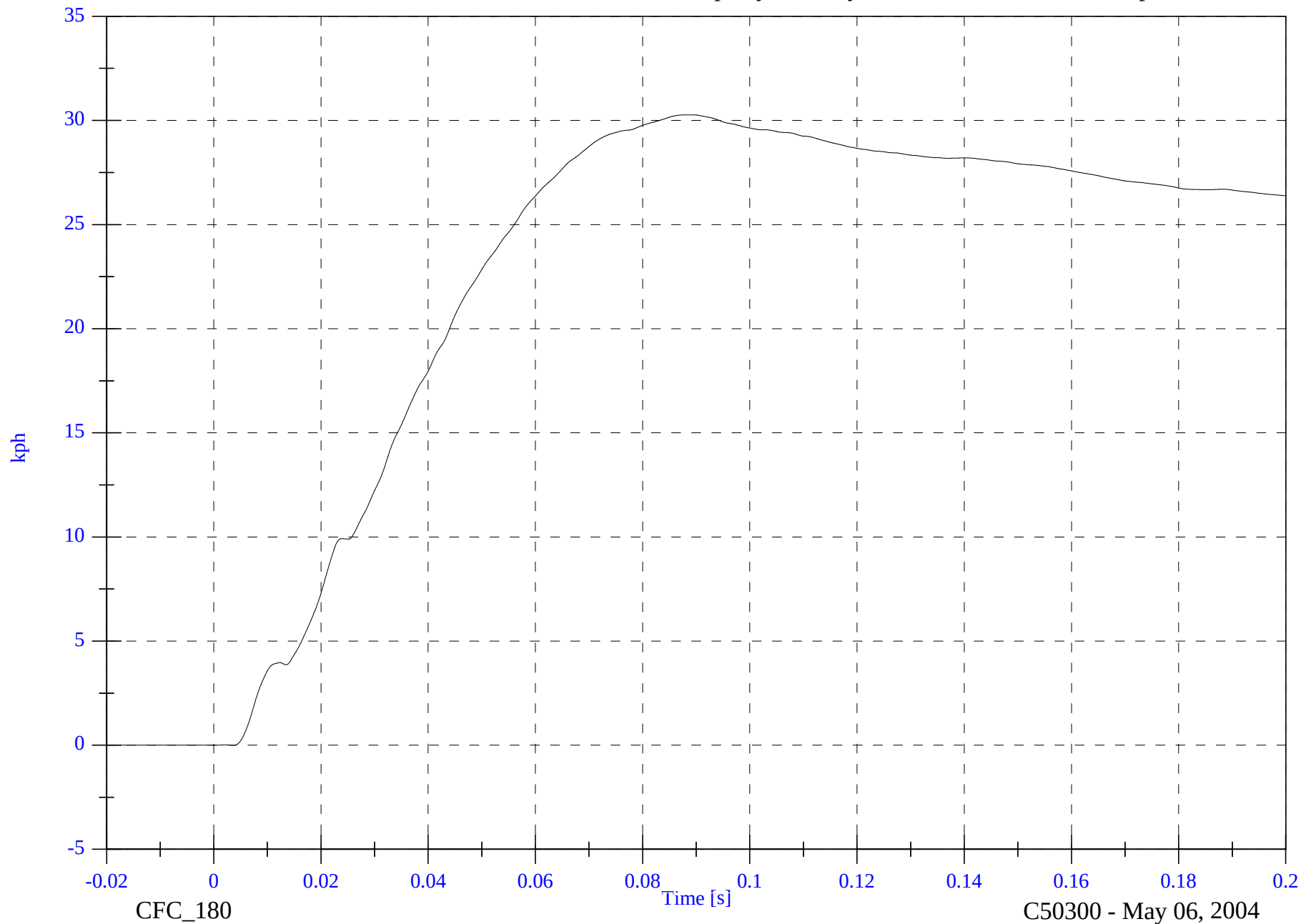


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A3 Rear Floorpan y Velocity

Max: 30.3 [kph] at 0.089 [s]

Min: -0.0 [kph] at 0.004 [s]



B-77

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

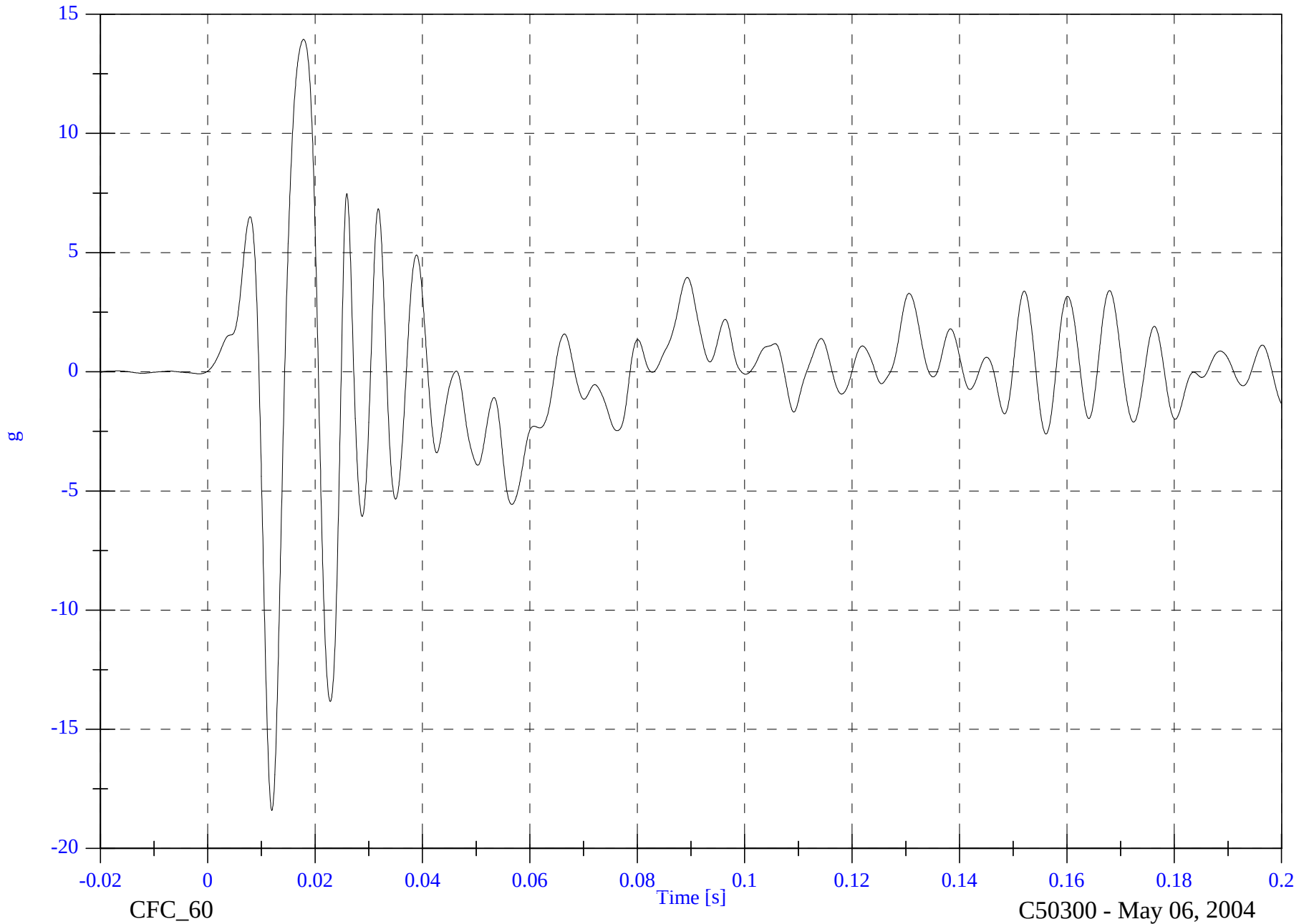
V2 A3 Rear Floorpan z

Max: 13.9 [g] at 0.018 [s]

Min: -18.4 [g] at 0.012 [s]

B-78

8675-F214-19

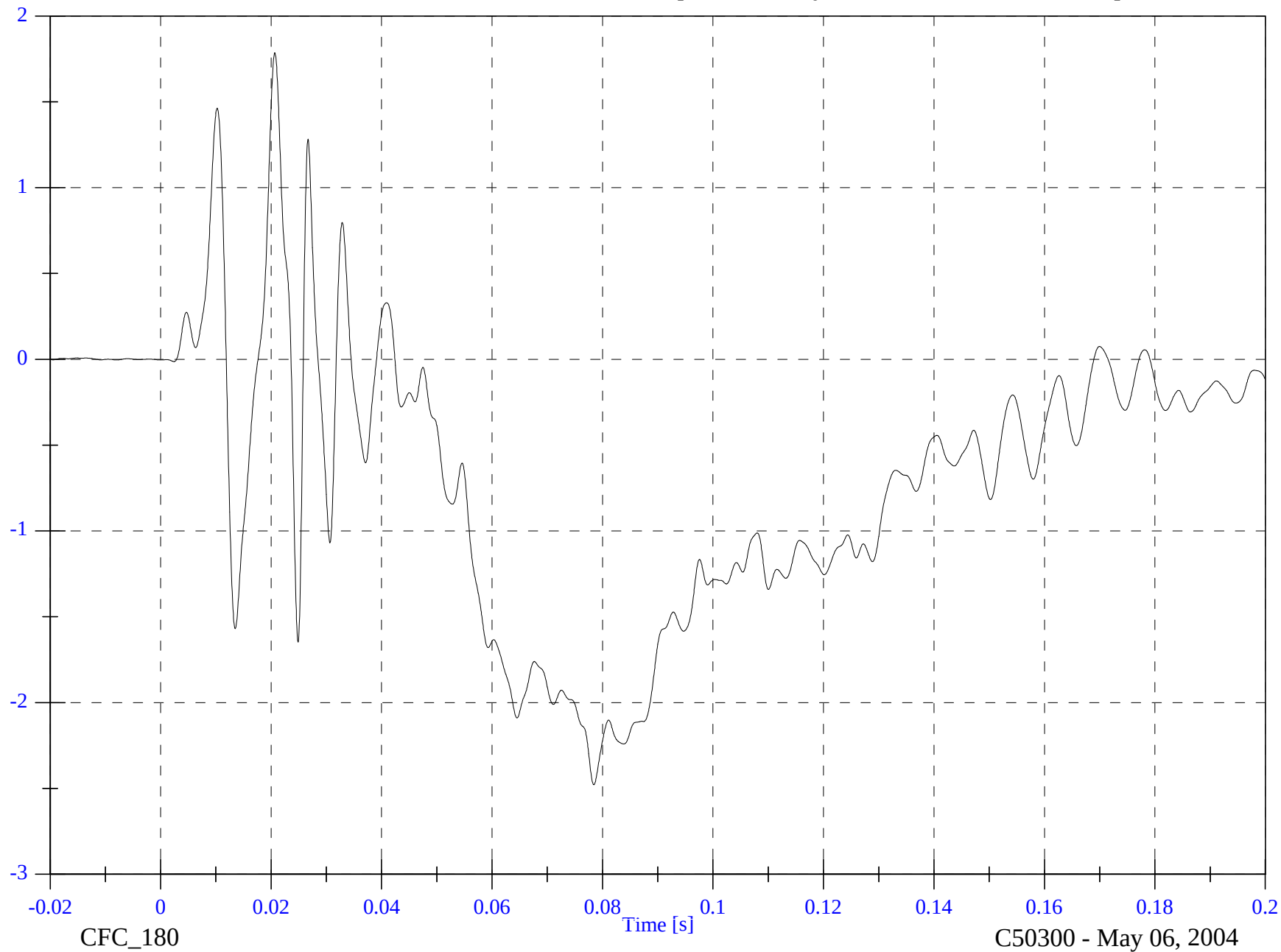


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A3 Rear Floorpan z Velocity

Max: 1.8 [kph] at 0.021 [s]

Min: -2.5 [kph] at 0.078 [s]



B-79

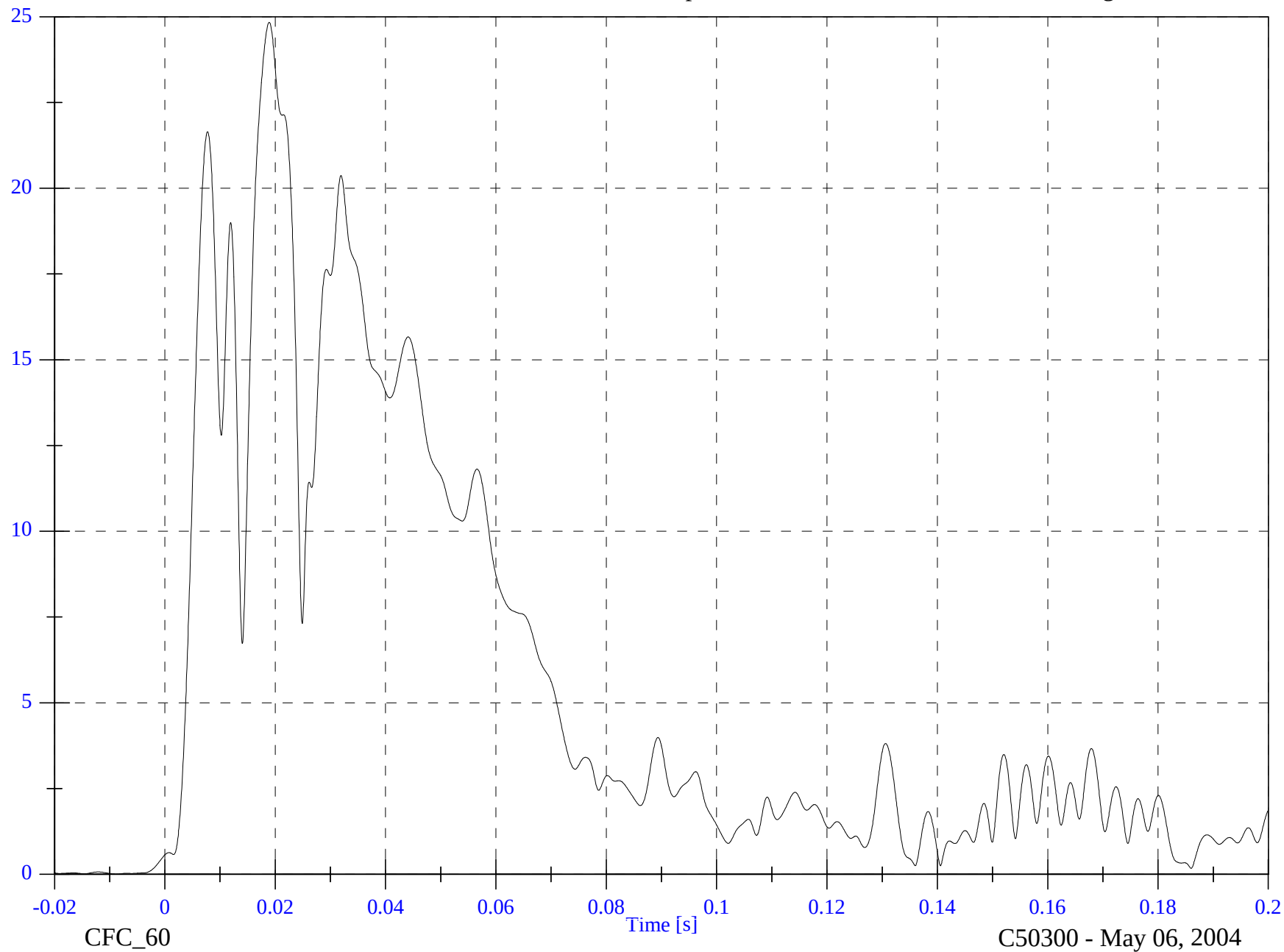
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A3 Rear Floorpan Resultant

Max: 24.8 [g] at 0.019 [s]

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



B-80

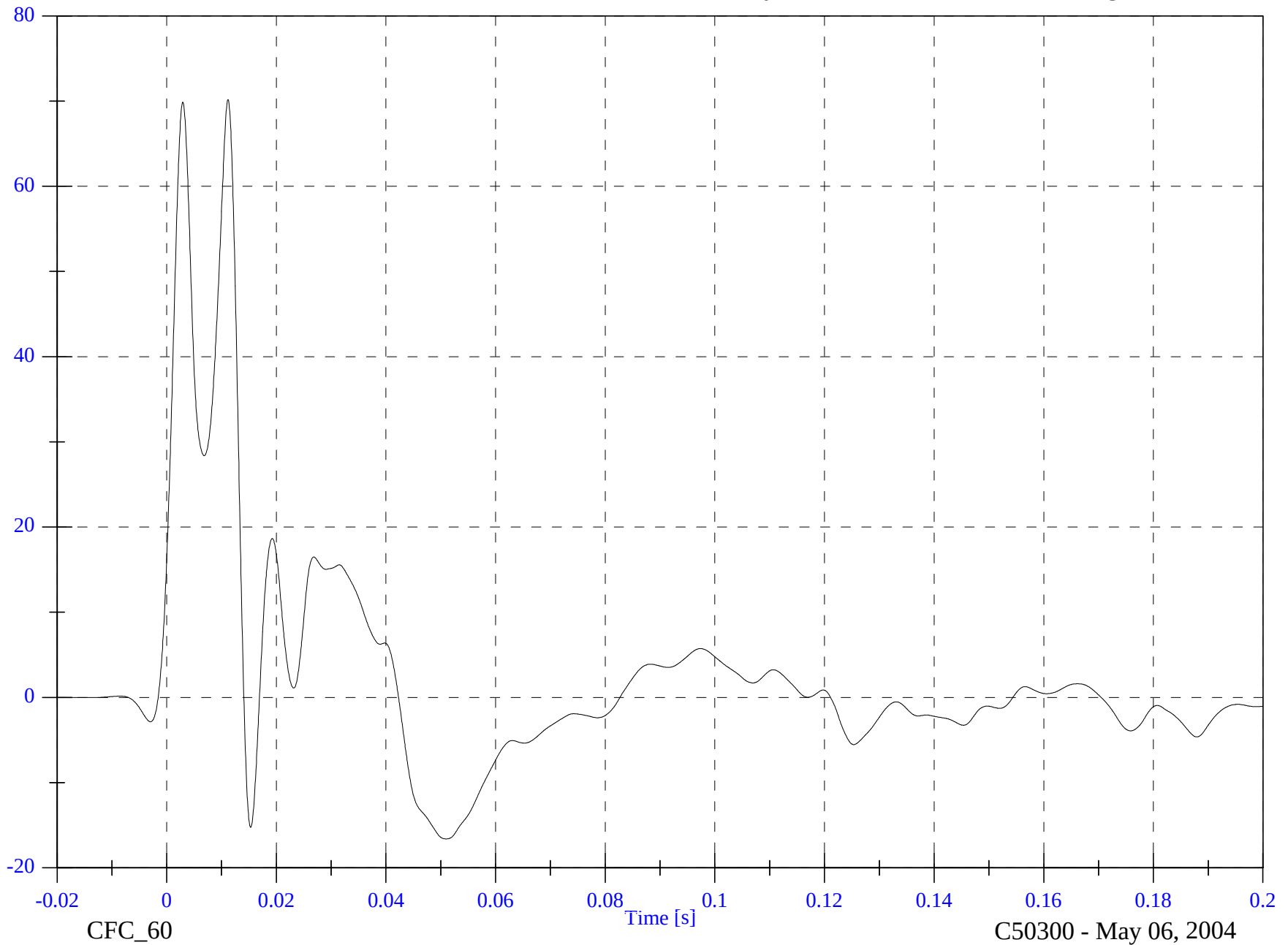
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A4 Left Rear Sill y

Max: 70.2 [g] at 0.011 [s]

Min: -16.6 [g] at 0.051 [s]



B-81

8675-F214-19

CFC_60

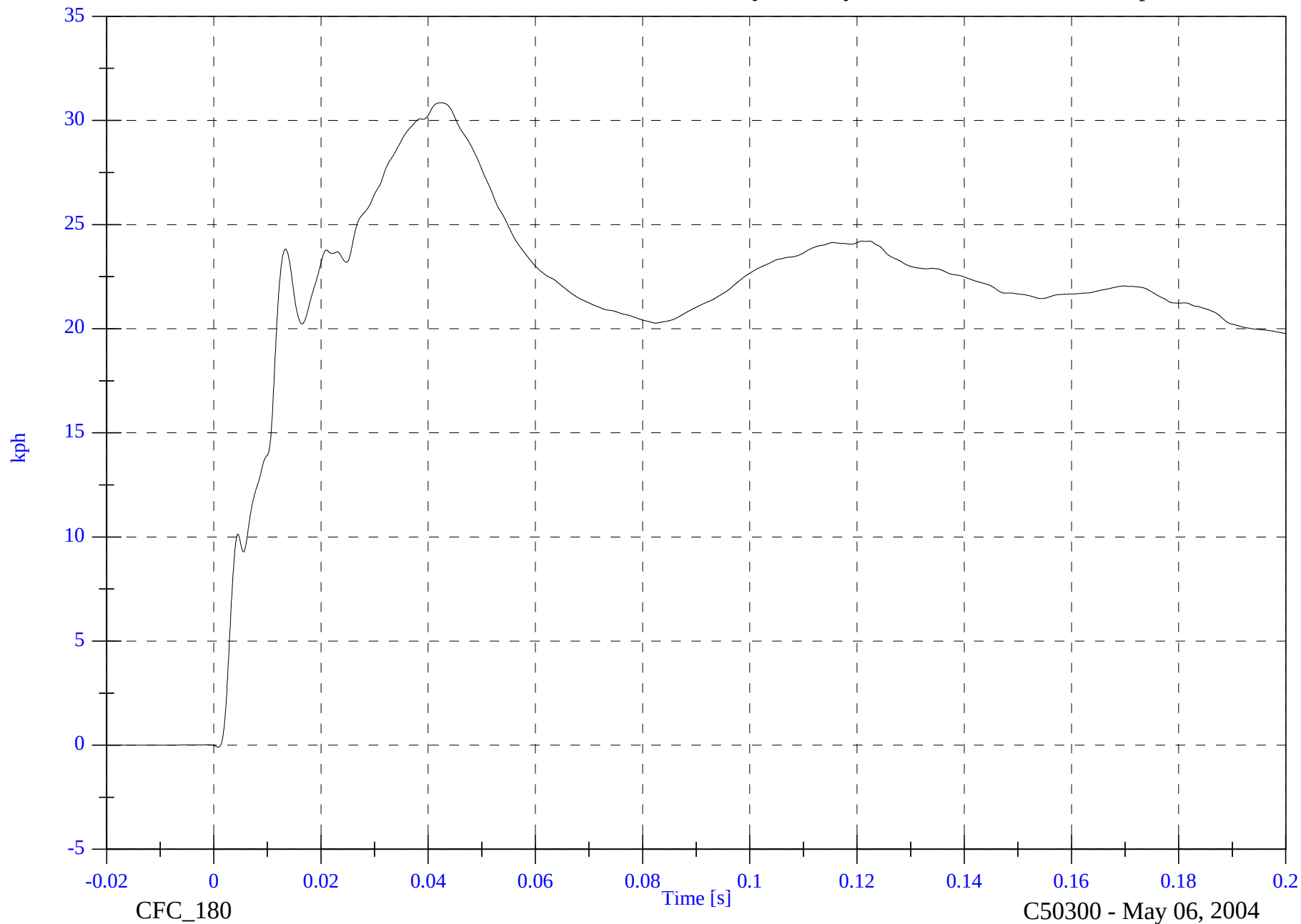
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A4 Left Rear Sill y Velocity

Max: 30.8 [kph] at 0.042 [s]

Min: -0.1 [kph] at 0.001 [s]



B-82

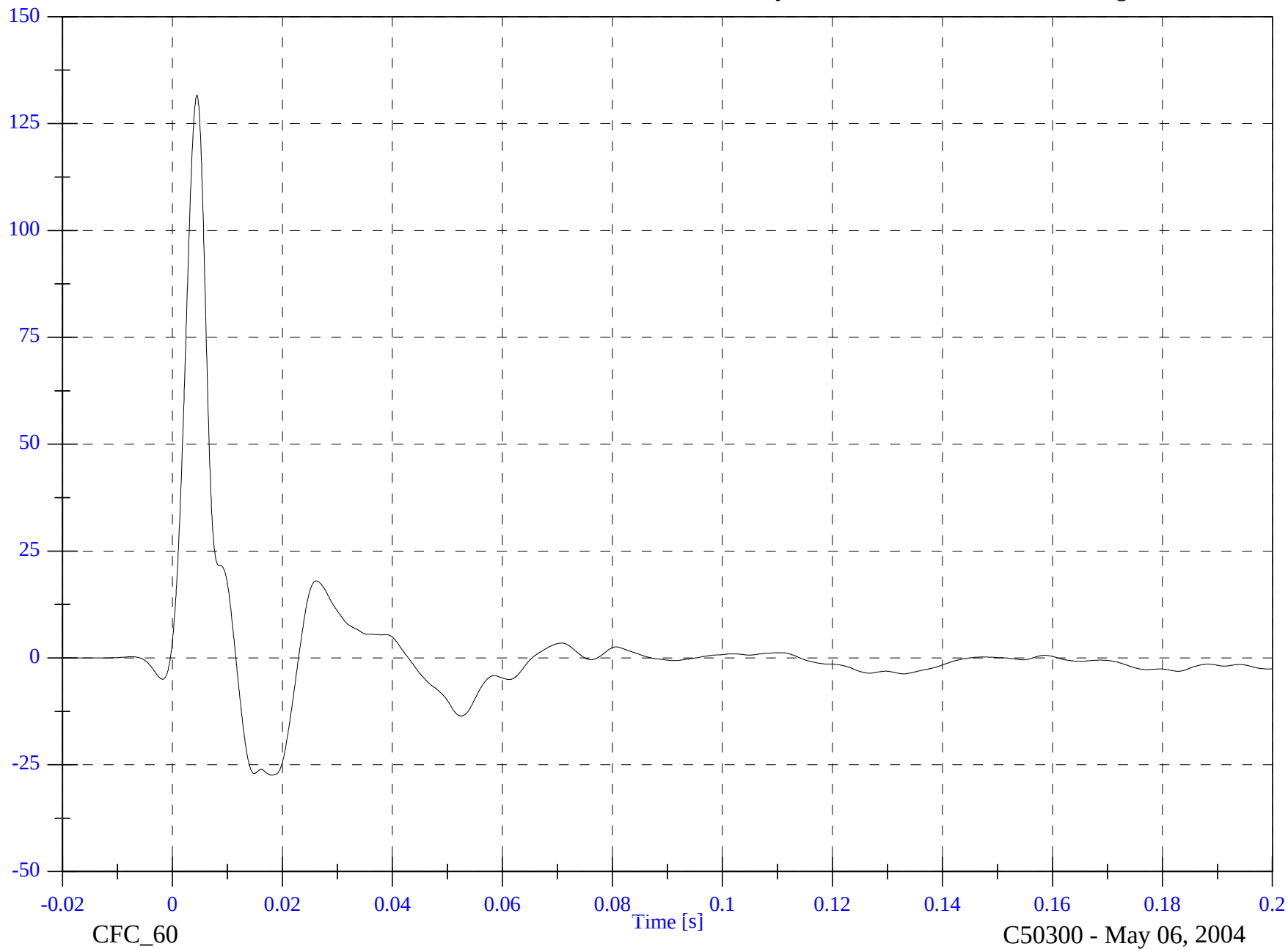
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A5 Left Front Sill y

Max: 131.6 [g] at 0.004 [s]

Min: -27.4 [g] at 0.018 [s]



B-83

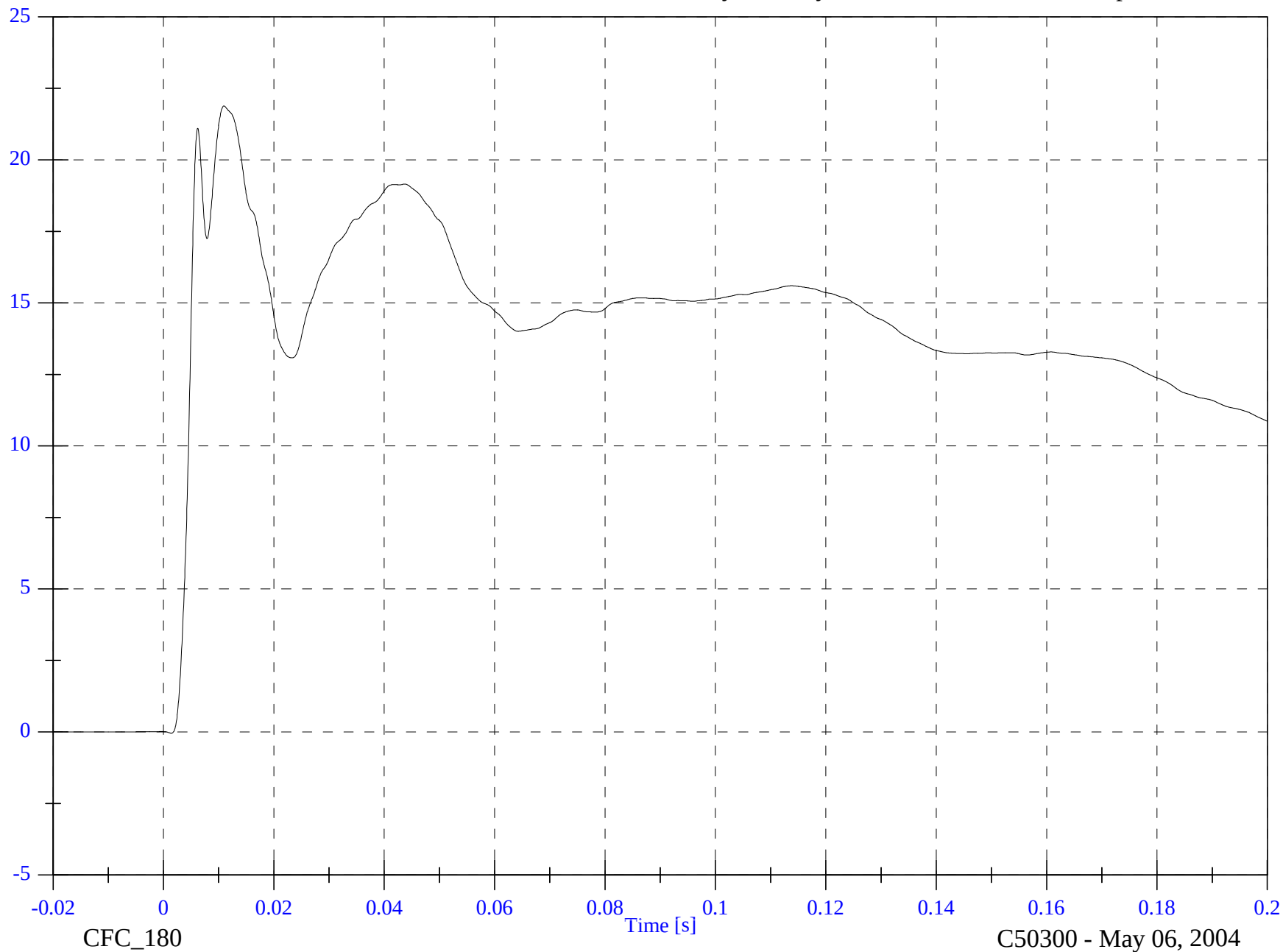
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A5 Left Front Sill y Velocity

Max: 21.9 [kph] at 0.011 [s]

Min: -0.0 [kph] at 0.001 [s]



B-84

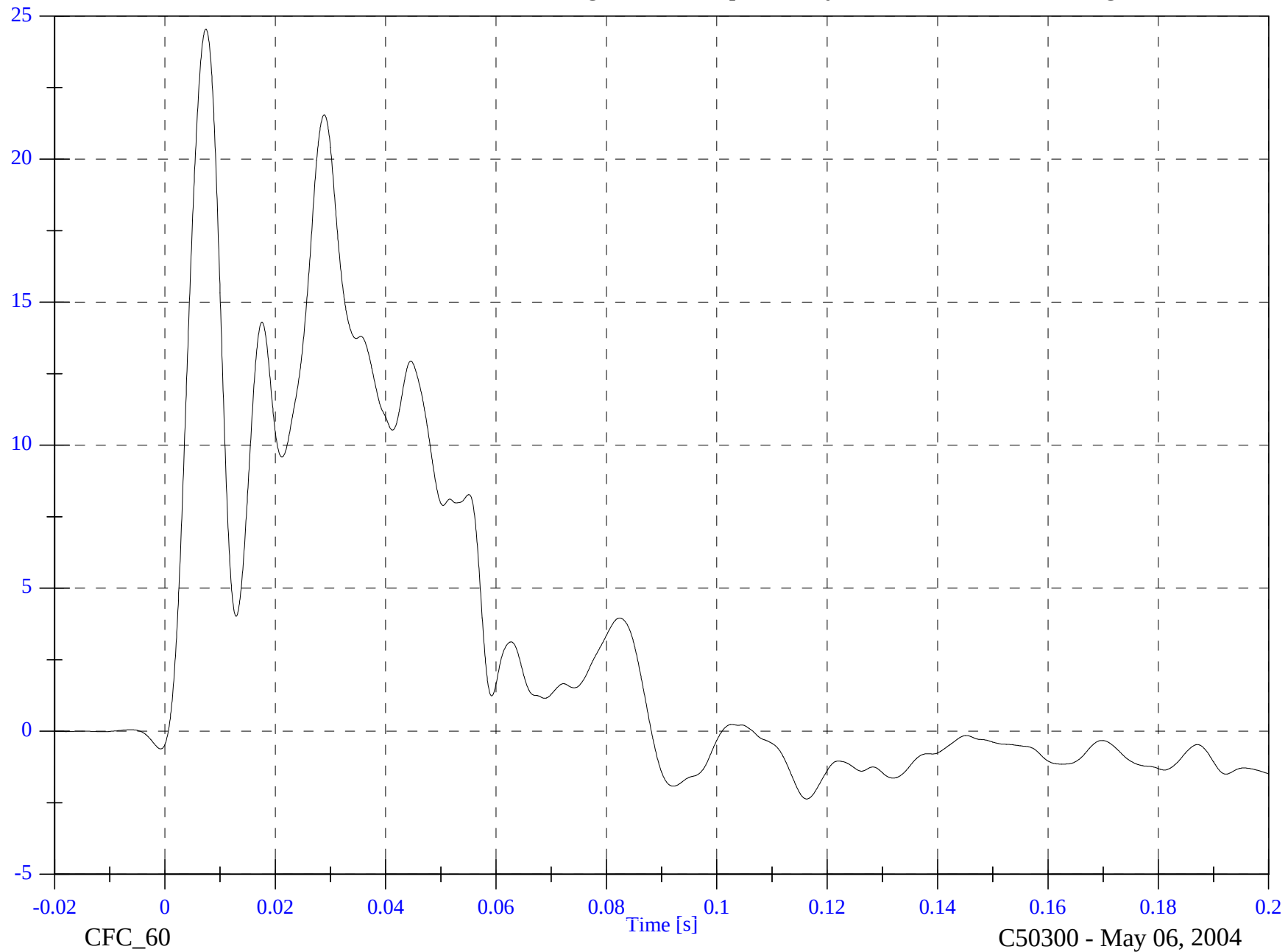
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A7 Right Rear Compartment y

Max: 24.5 [g] at 0.007 [s]

Min: -2.4 [g] at 0.116 [s]



B-85

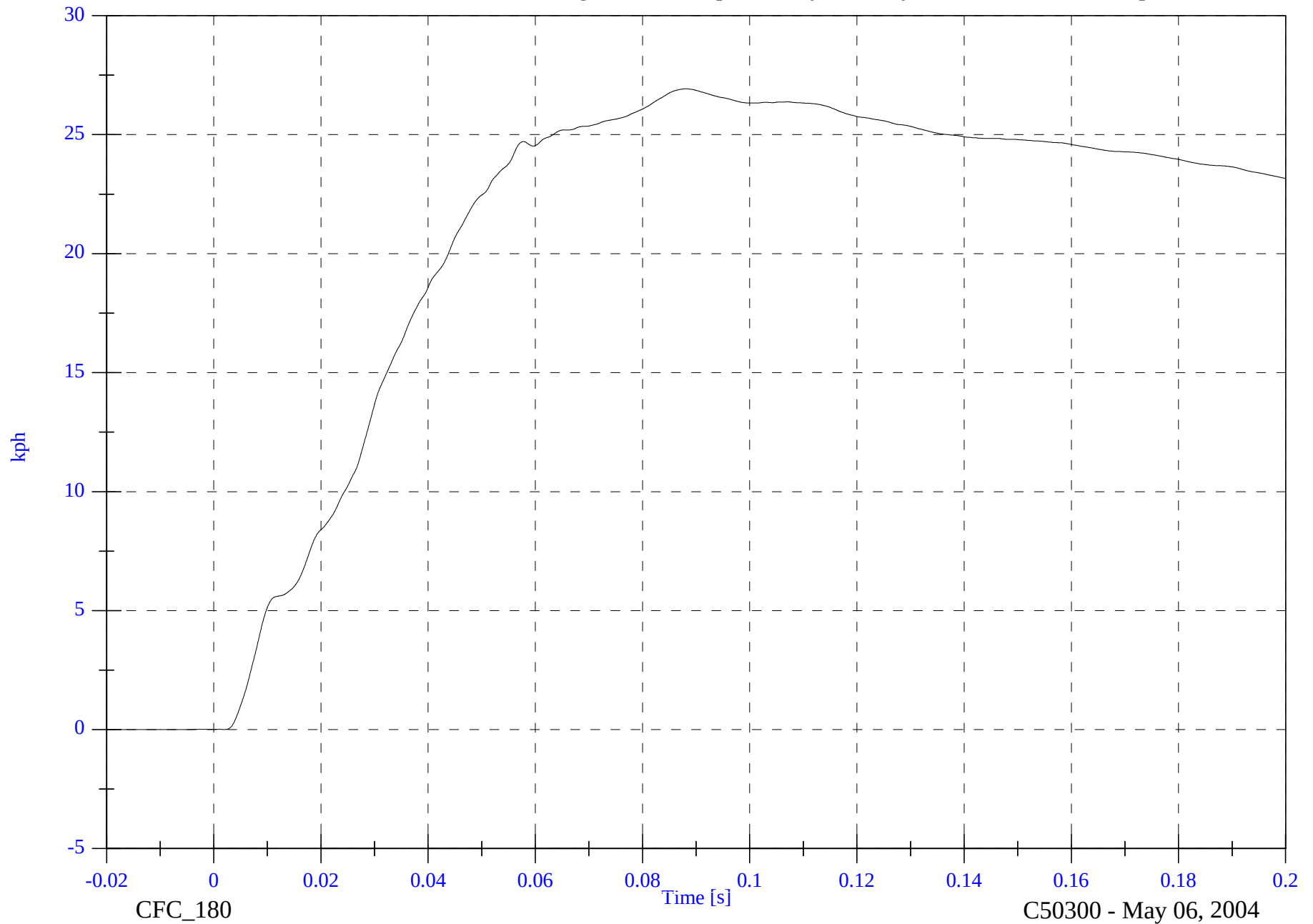
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A7 Right Rear Compartment y Velocity

Max: 26.9 [kph] at 0.088 [s]

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



B-86

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

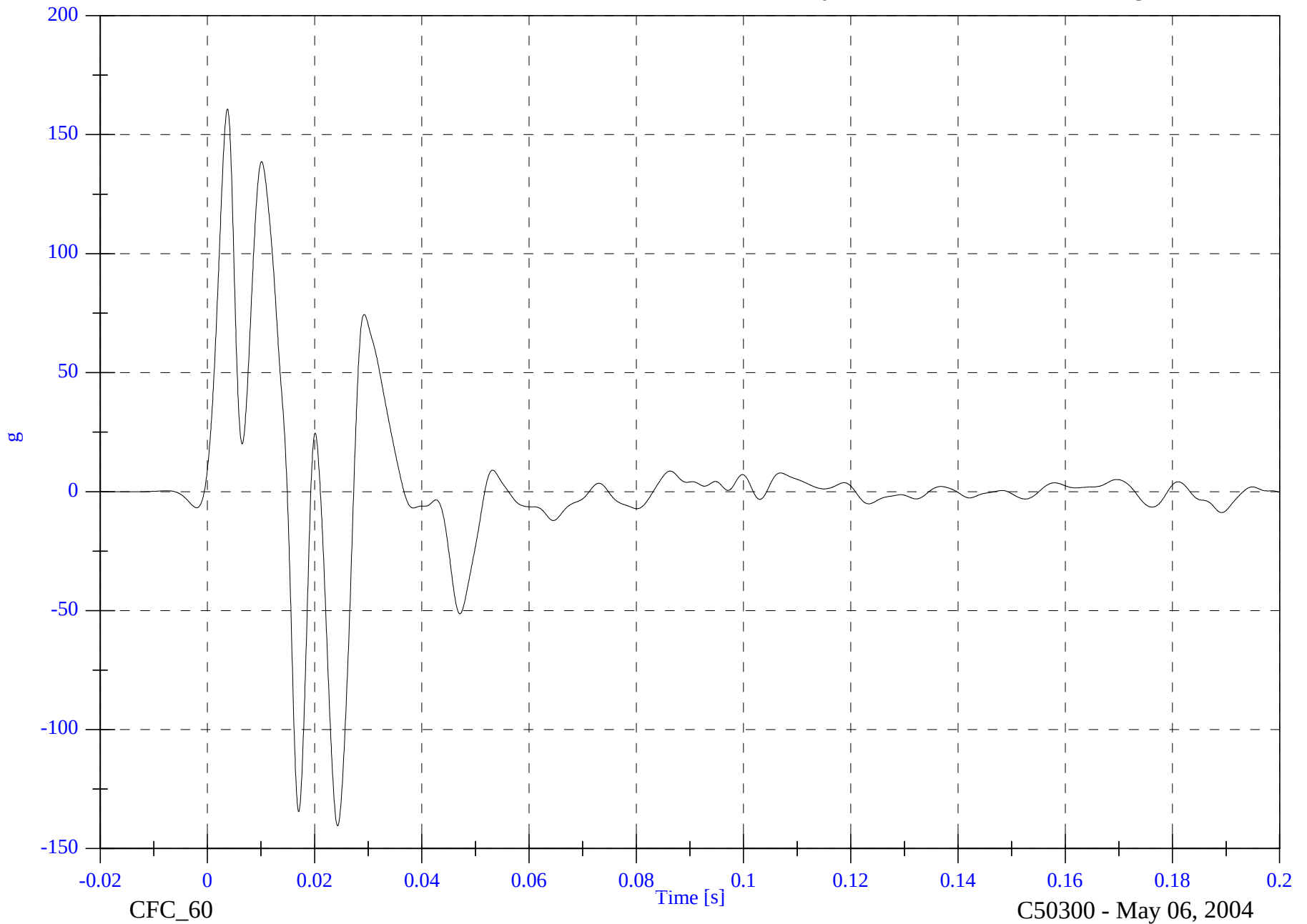
V2 A12 Left Lower B Post y

Max: 160.8 [g] at 0.004 [s]

Min: -140.5 [g] at 0.024 [s]

B-87

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

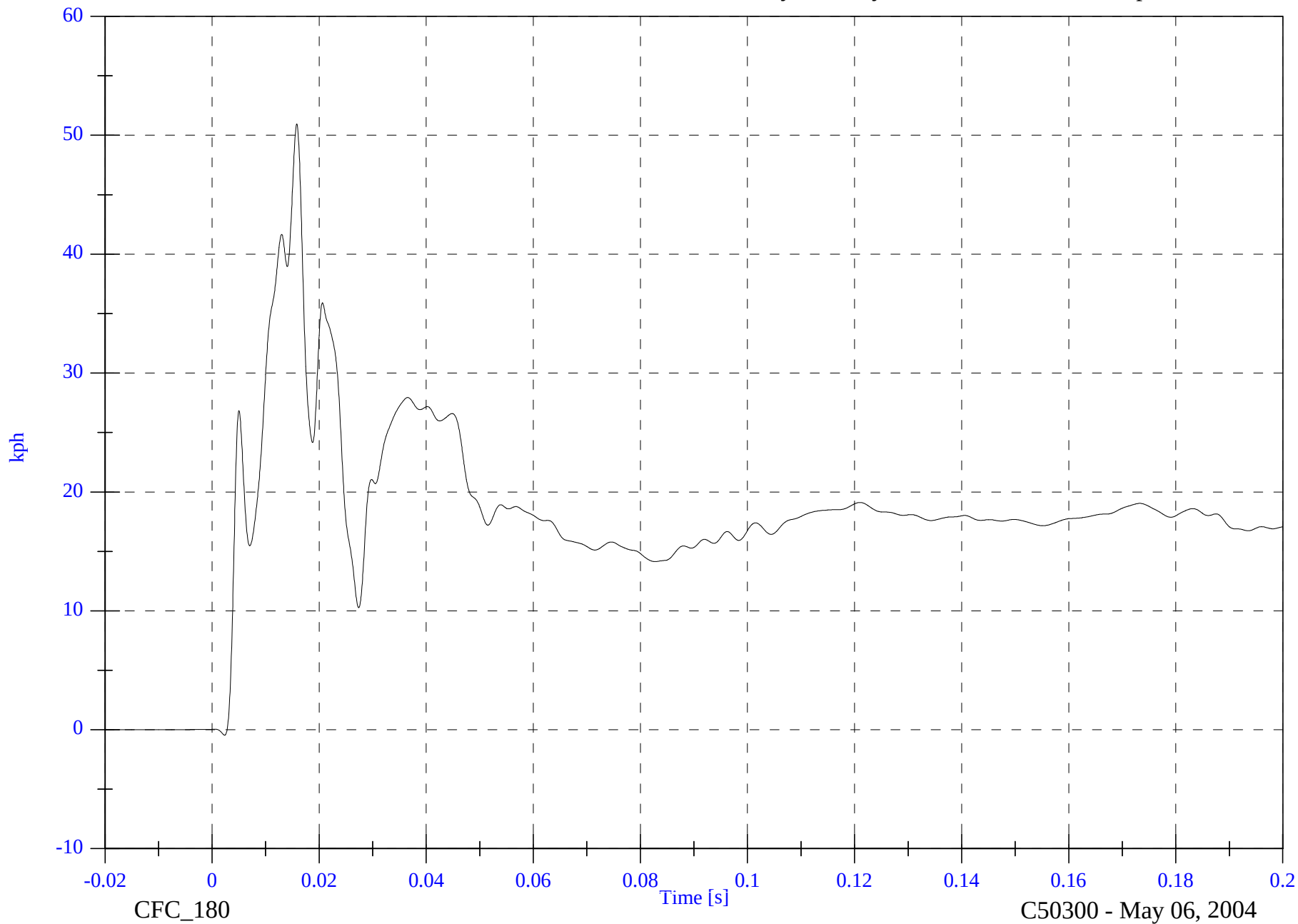
V2 A12 Left Lower B Post y Velocity

Max: 50.9 [kph] at 0.016 [s]

Min: -0.5 [kph] at 0.002 [s]

B-88

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

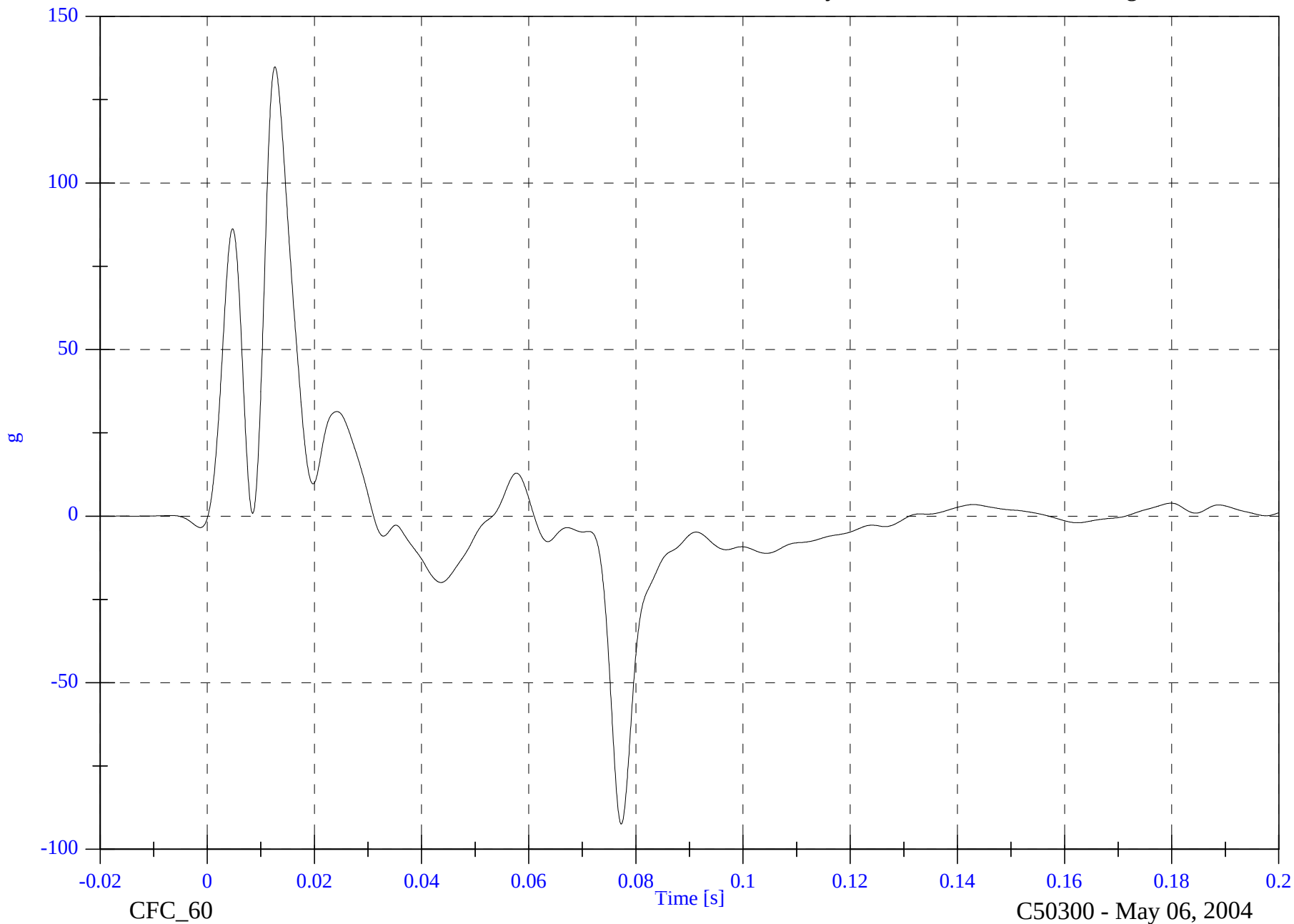
V2 A13 Left Middle B Post y

Max: 134.8 [g] at 0.013 [s]

Min: -92.4 [g] at 0.077 [s]

B-89

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A13 Left Middle B Post y Velocity

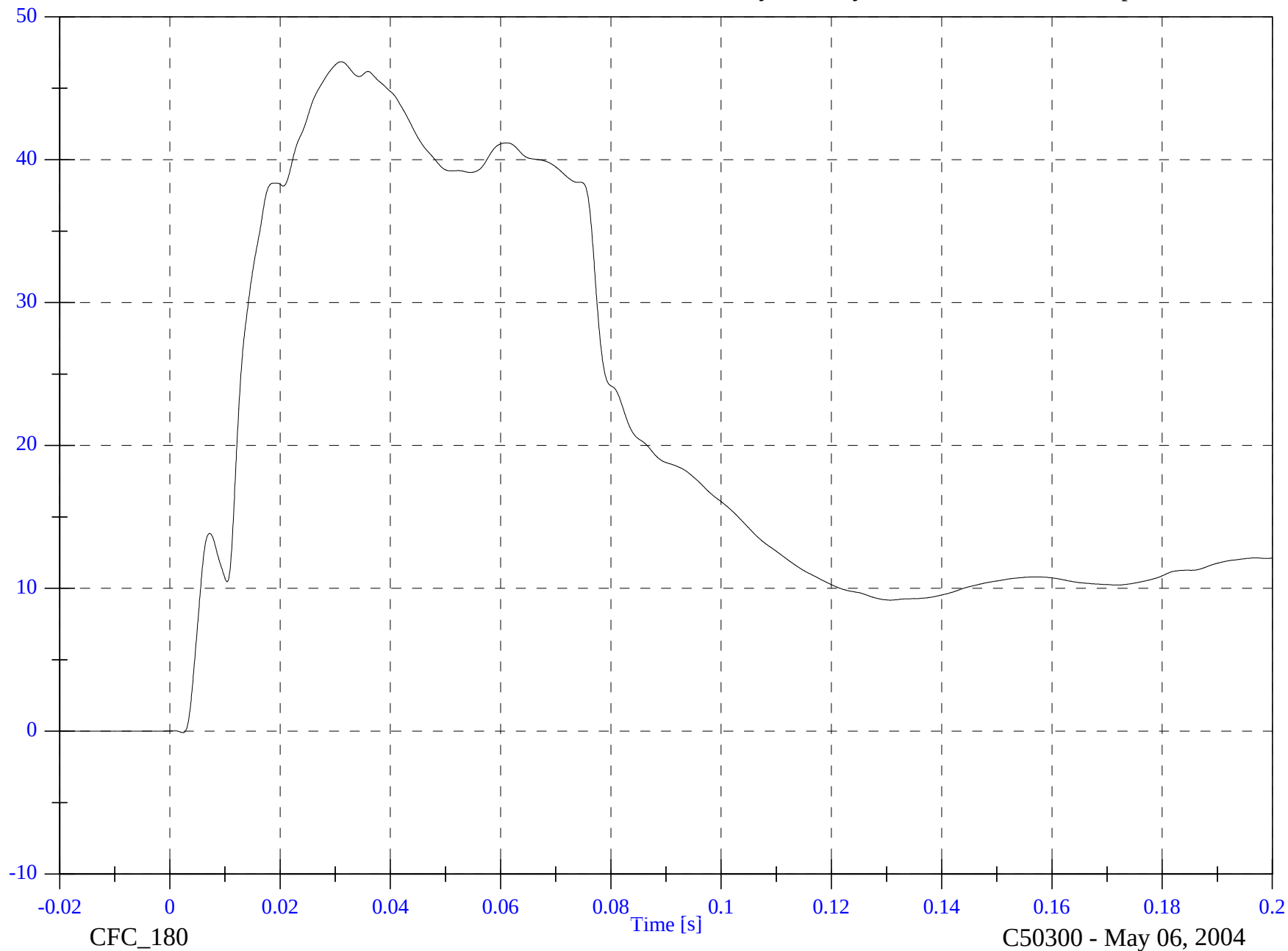
Max: 46.9 [kph] at 0.031 [s]

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

B-90

kph

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

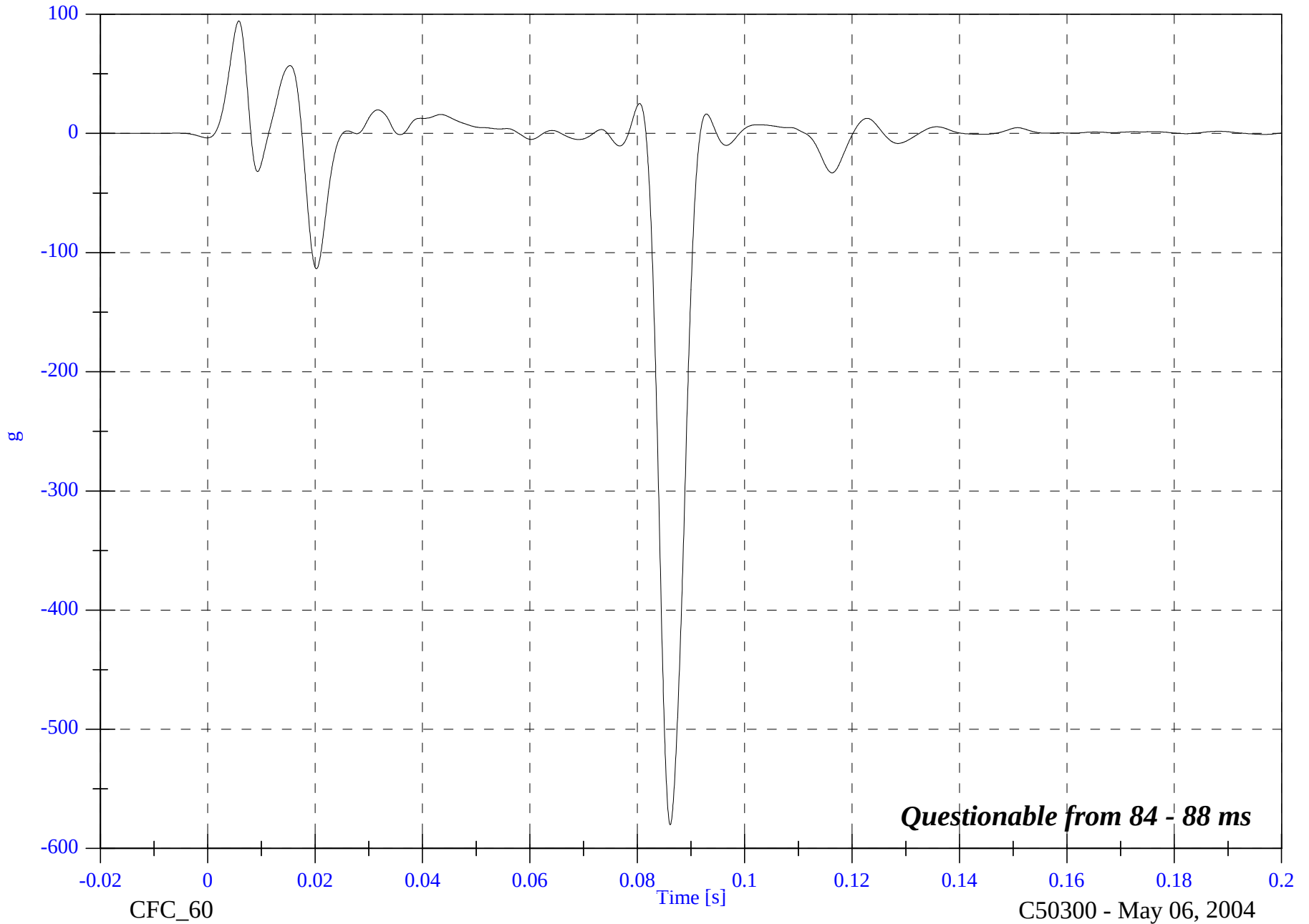
V2 A14 Left Lower A Post y

Max: 94.3 [g] at 0.006 [s]

Min: -580.1 [g] at 0.086 [s]

B-91

8675-F214-19

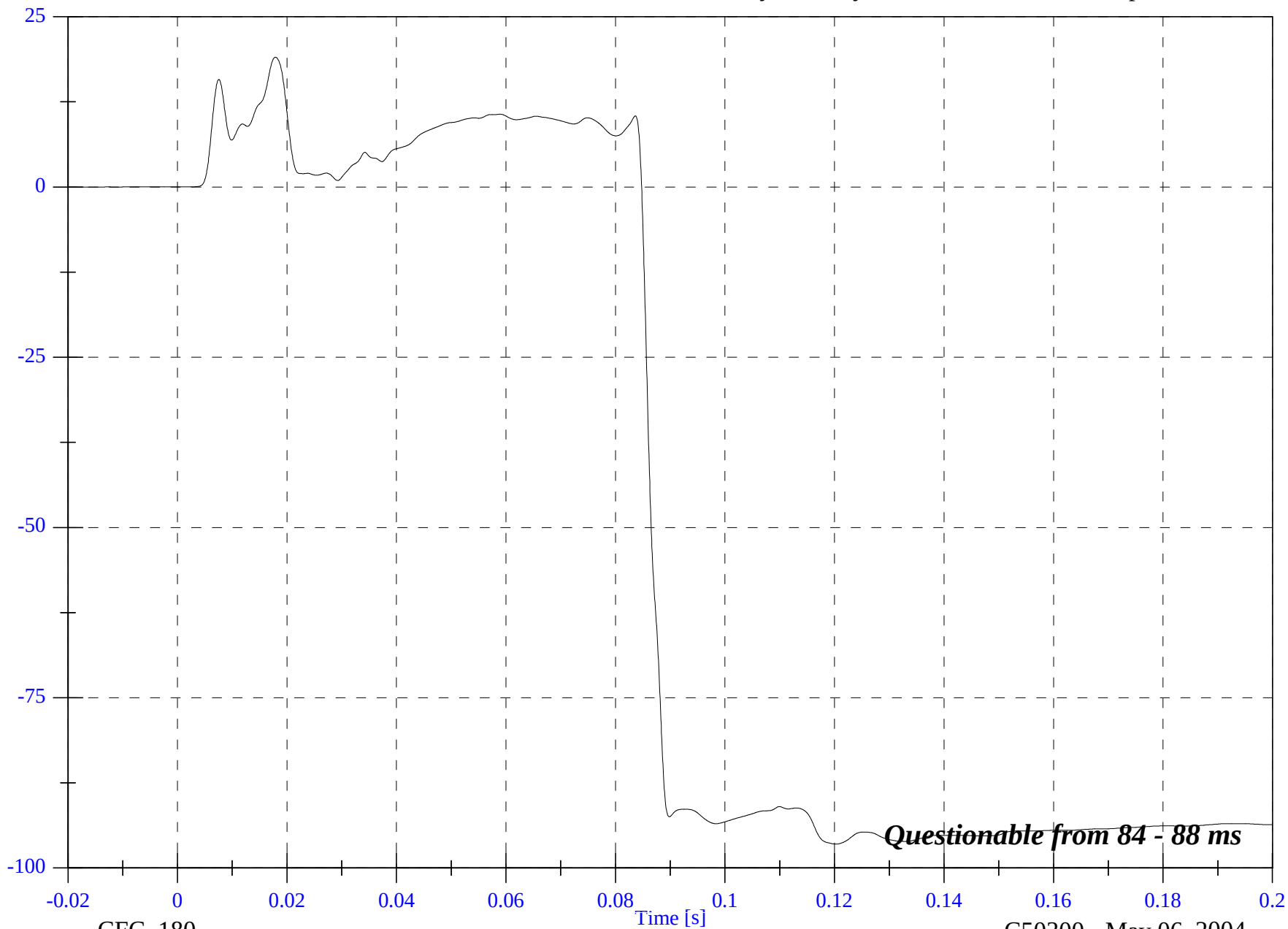


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A14 Left Lower A Post y Velocity

Max: 19.0 [kph] at 0.018 [s]

Min: -96.5 [kph] at 0.120 [s]



Questionable from 84 - 88 ms

B-92

8675-F214-19

CFC_180

C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

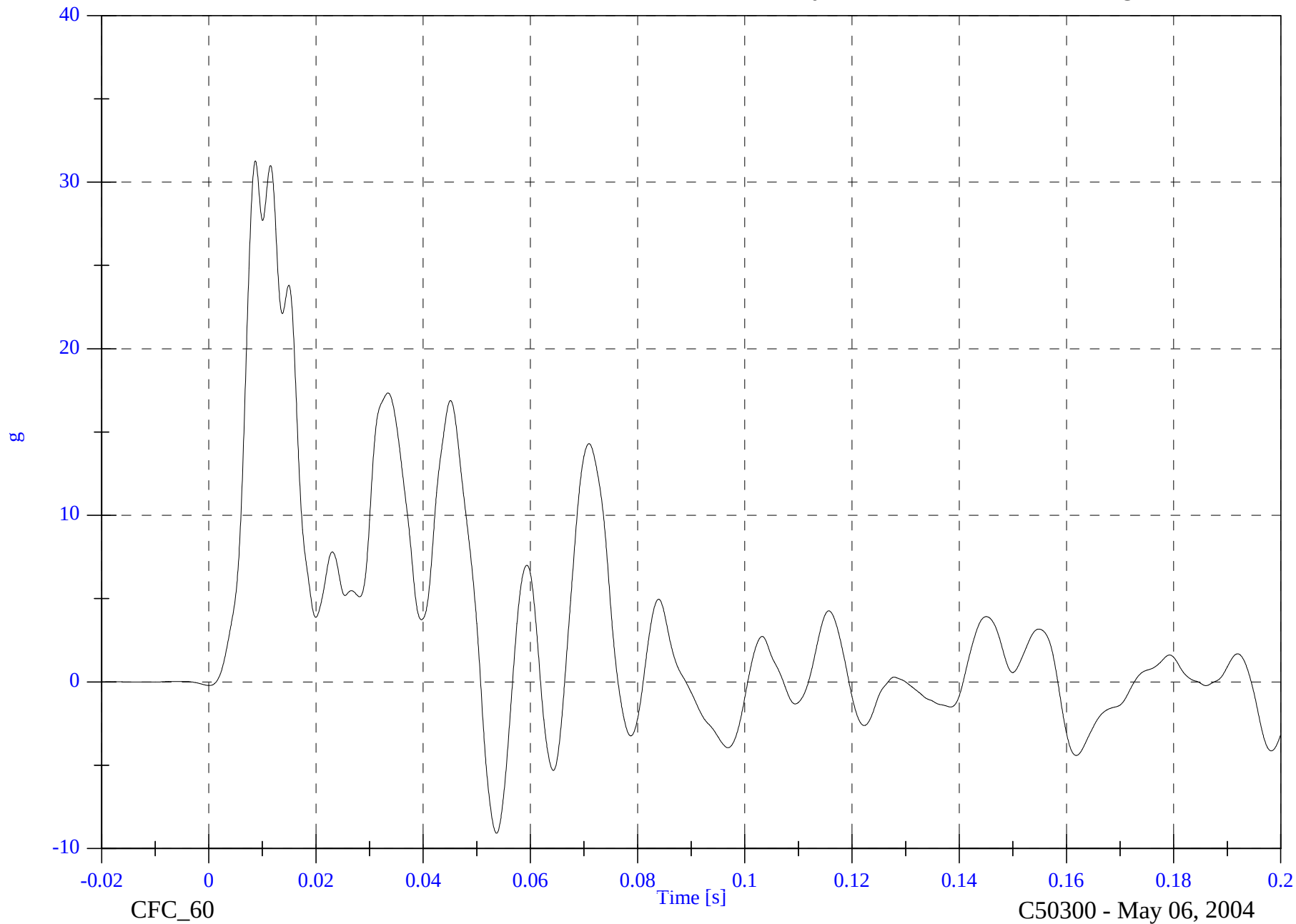
V2 A15 Left Mid A Post y

Max: 31.3 [g] at 0.009 [s]

Min: -9.1 [g] at 0.054 [s]

B-93

8675-F214-19

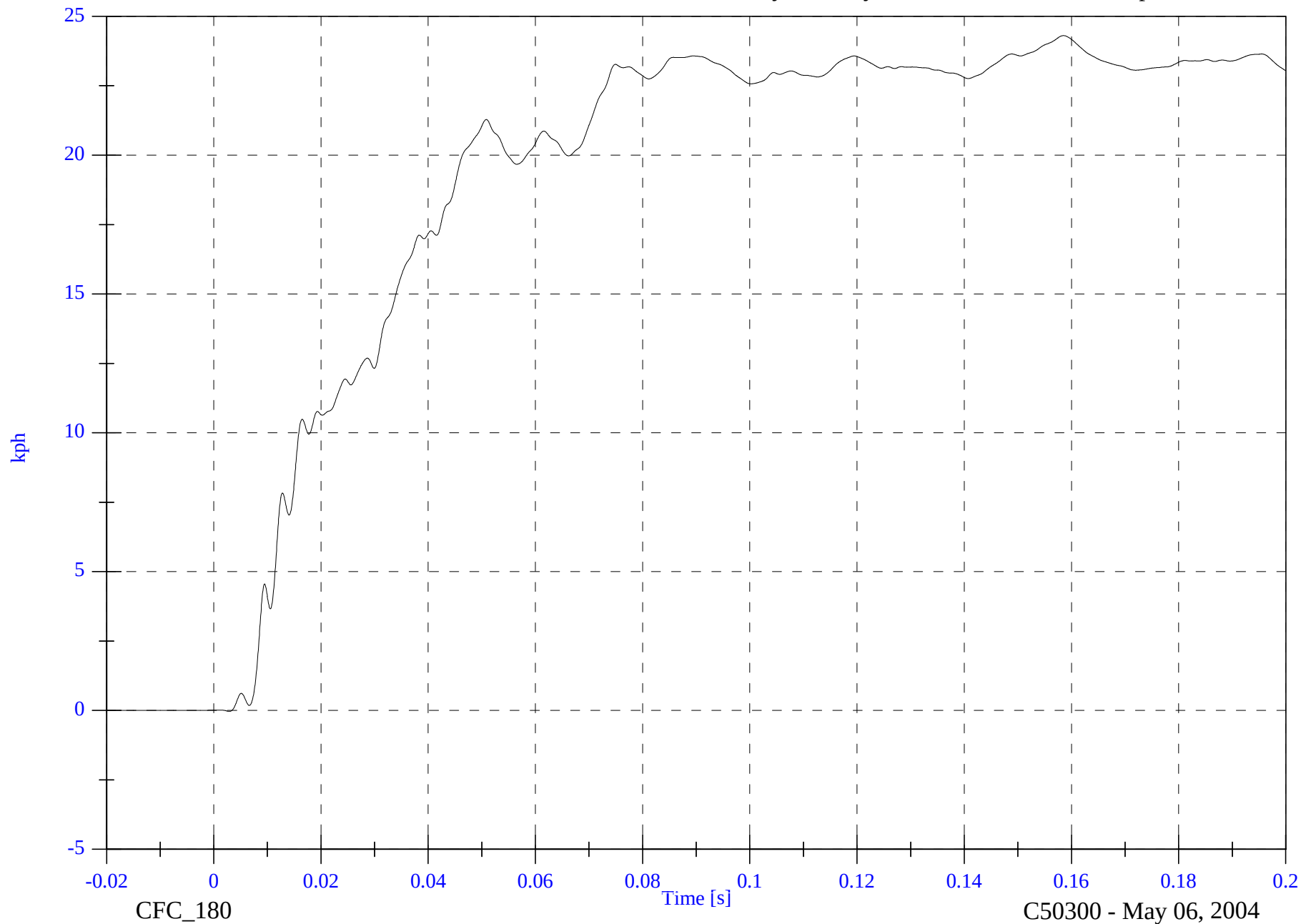


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A15 Left Mid A Post y Velocity

Max: 24.3 [kph] at 0.159 [s]

Min: -0.0 [kph] at 0.003 [s]



B-94

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

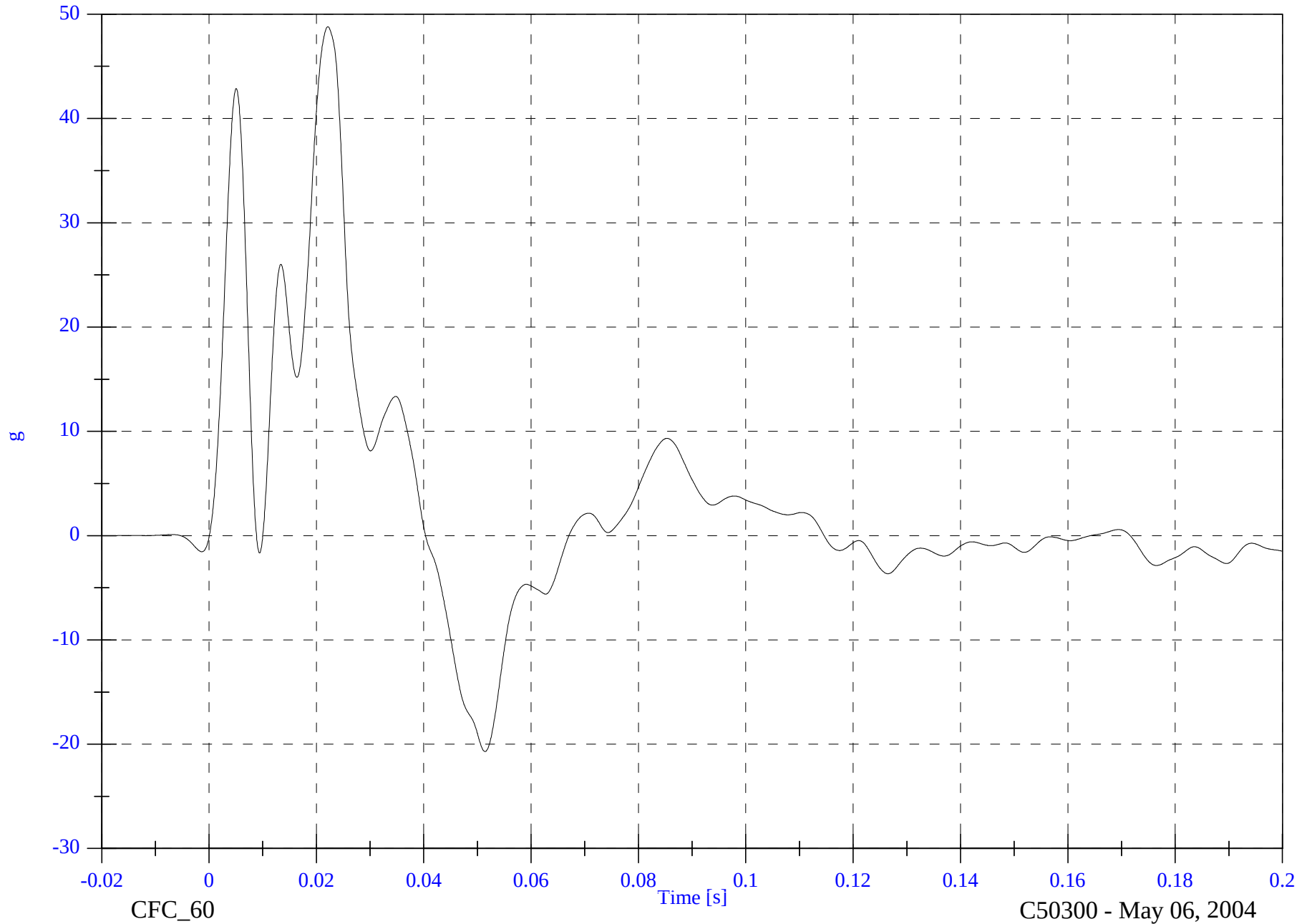
V2 A16 Front Seat Track y

Max: 48.8 [g] at 0.022 [s]

Min: -20.7 [g] at 0.051 [s]

B-95

8675-F214-19

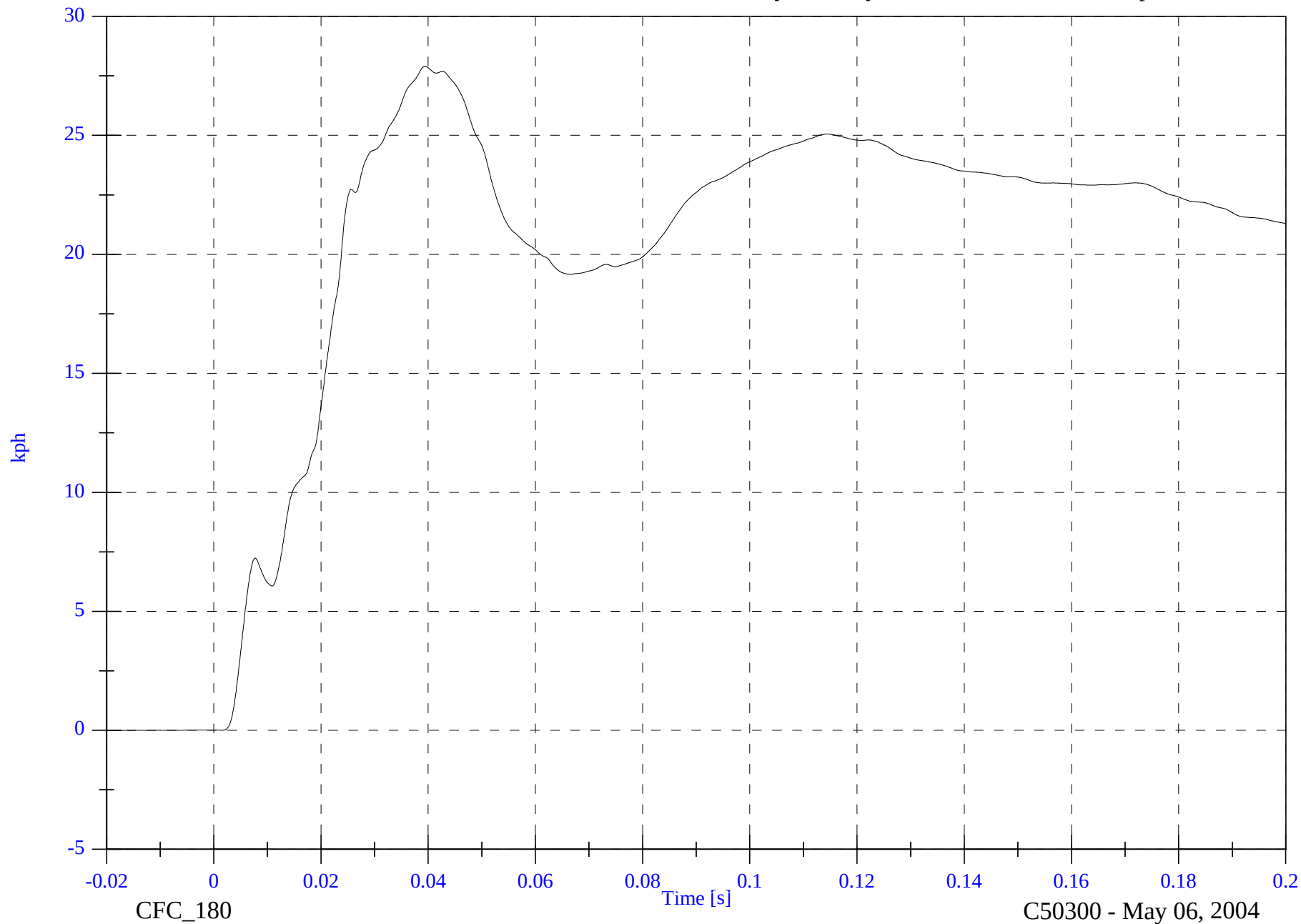


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A16 Front Seat Track y Velocity

Max: 27.9 [kph] at 0.039 [s]

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



B-96

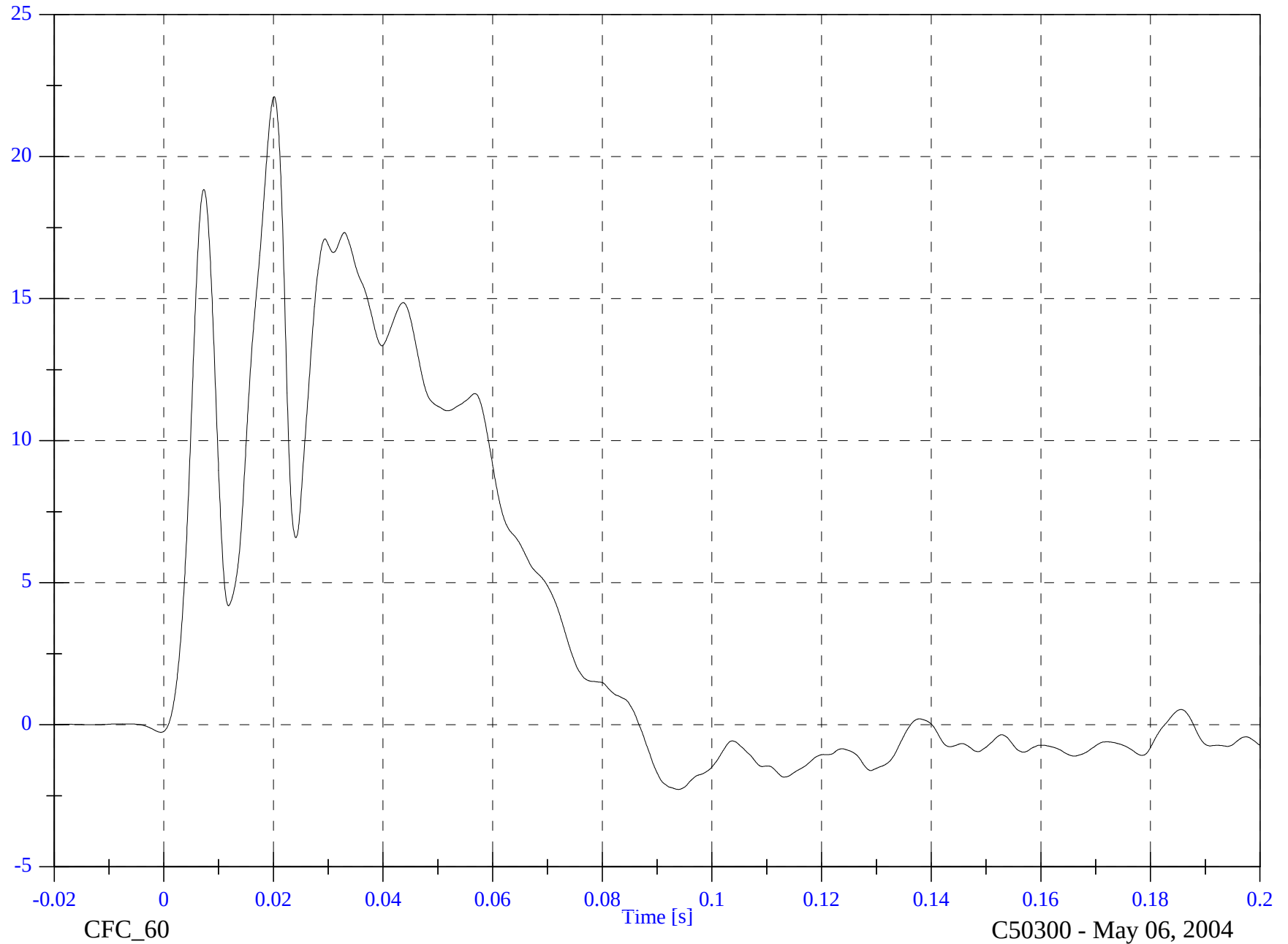
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A17 Rear Seat Track y

Max: 22.1 [g] at 0.020 [s]

Min: -2.3 [g] at 0.094 [s]



B-97

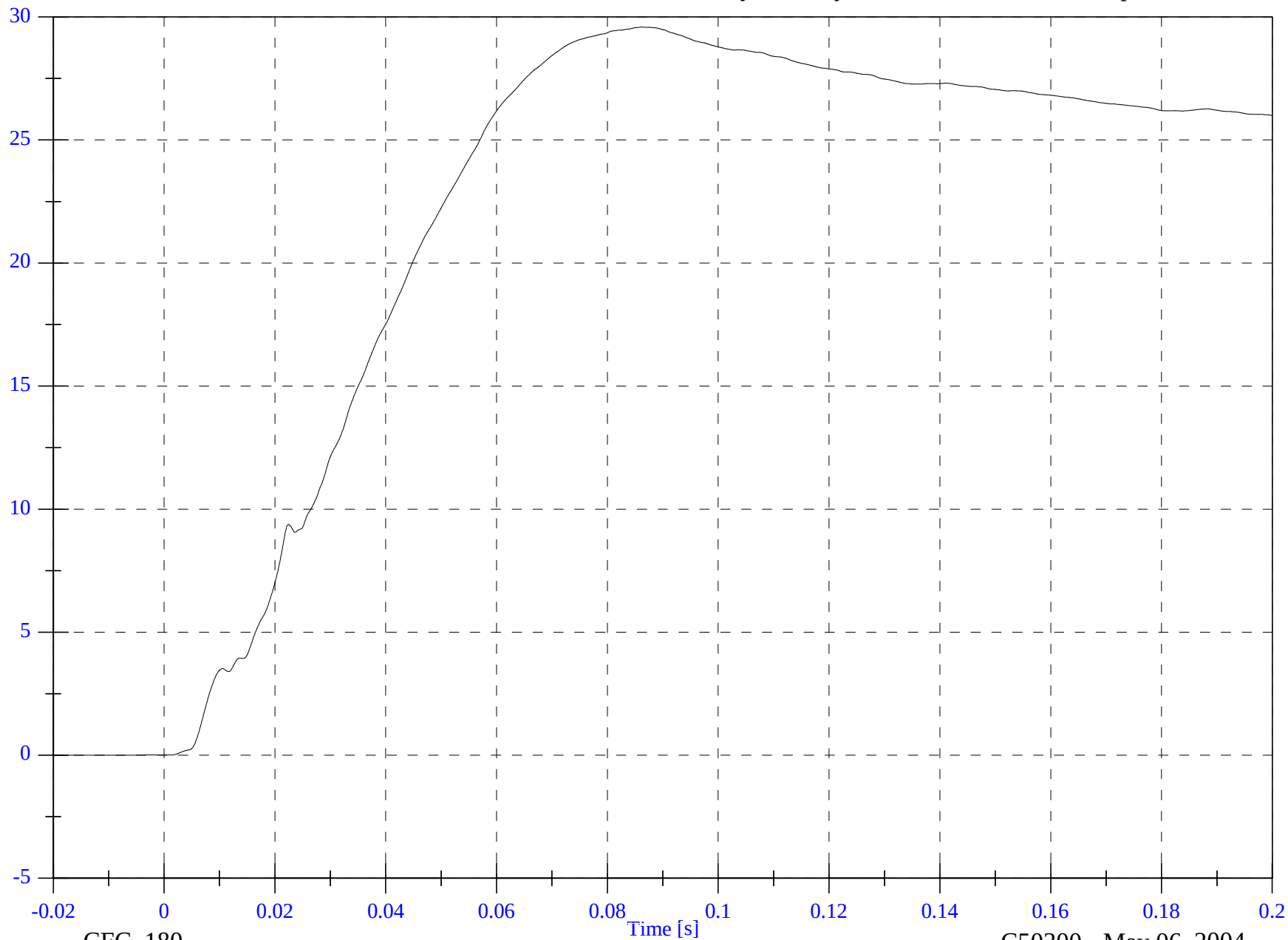
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A17 Rear Seat Track y Velocity

Max: 29.6 [kph] at 0.086 [s]

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



B-98

8675-F214-19

CFC_180

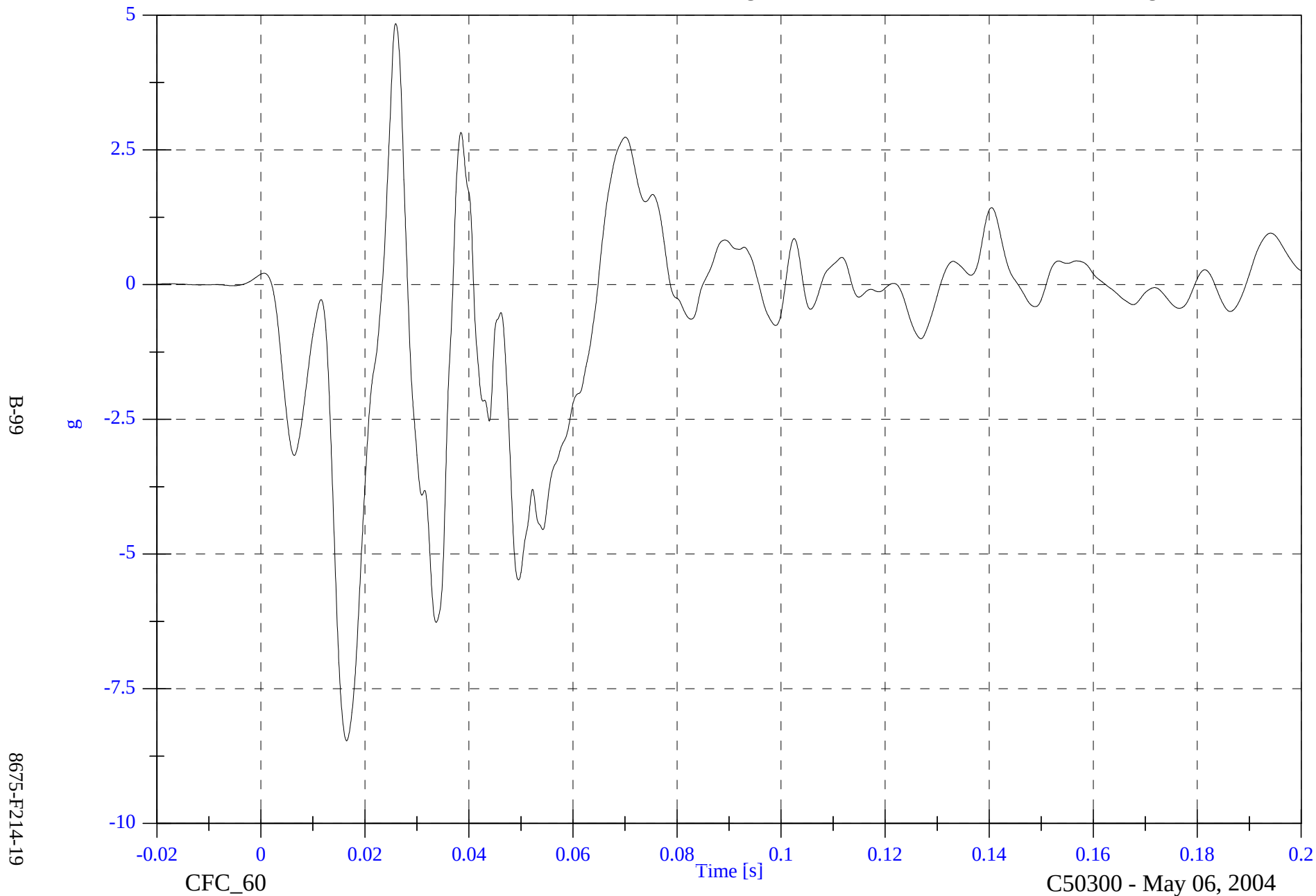
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A18 Target CG x

Max: 4.8 [g] at 0.026 [s]

Min: -8.5 [g] at 0.017 [s]



B-99

8675-F214-19

CFC_60

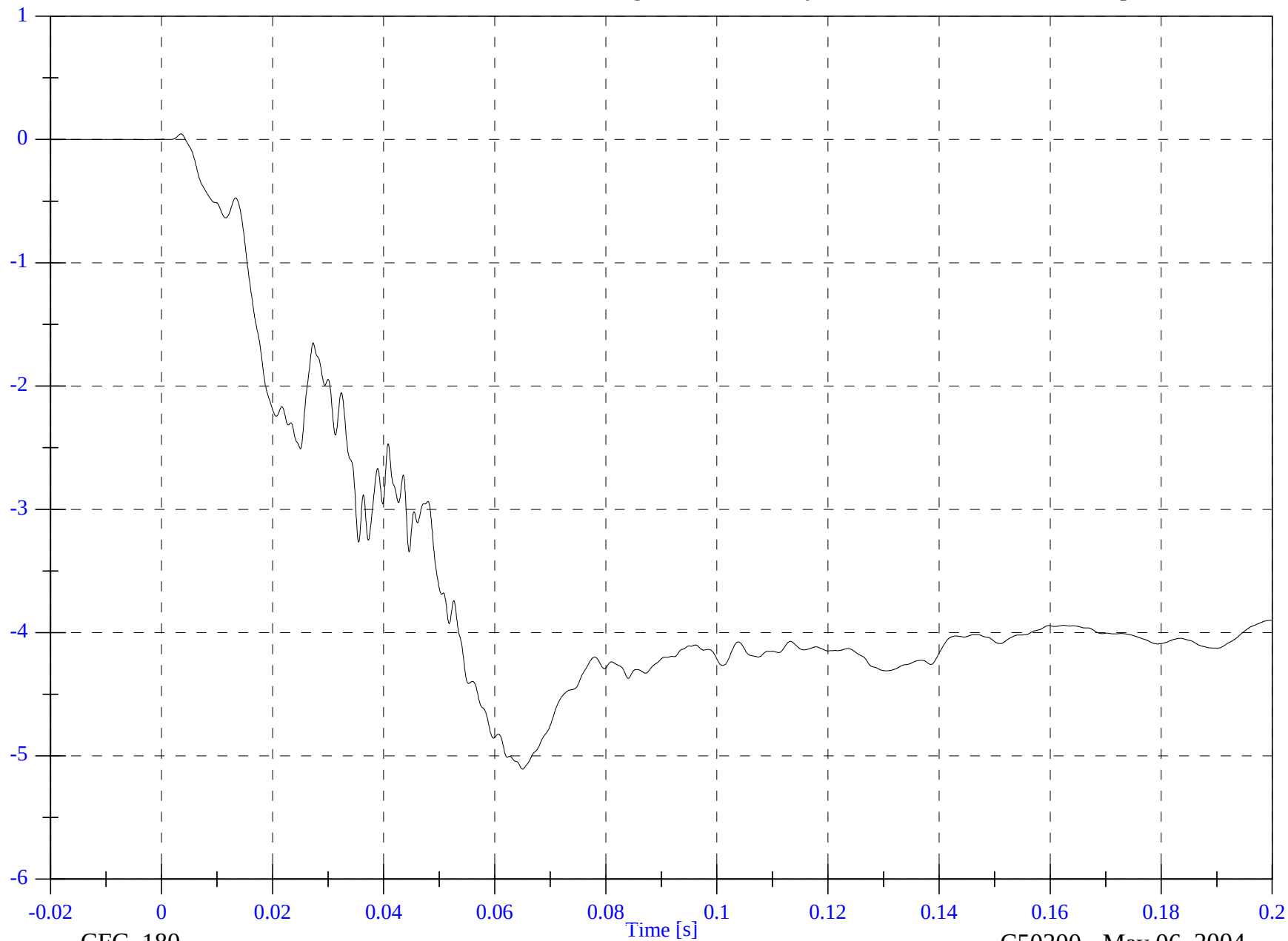
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A18 Target CG x Velocity

Max: 0.0 [kph] at 0.003 [s]

Min: -5.1 [kph] at 0.065 [s]



B-100

8675-F214-19

CFC_180

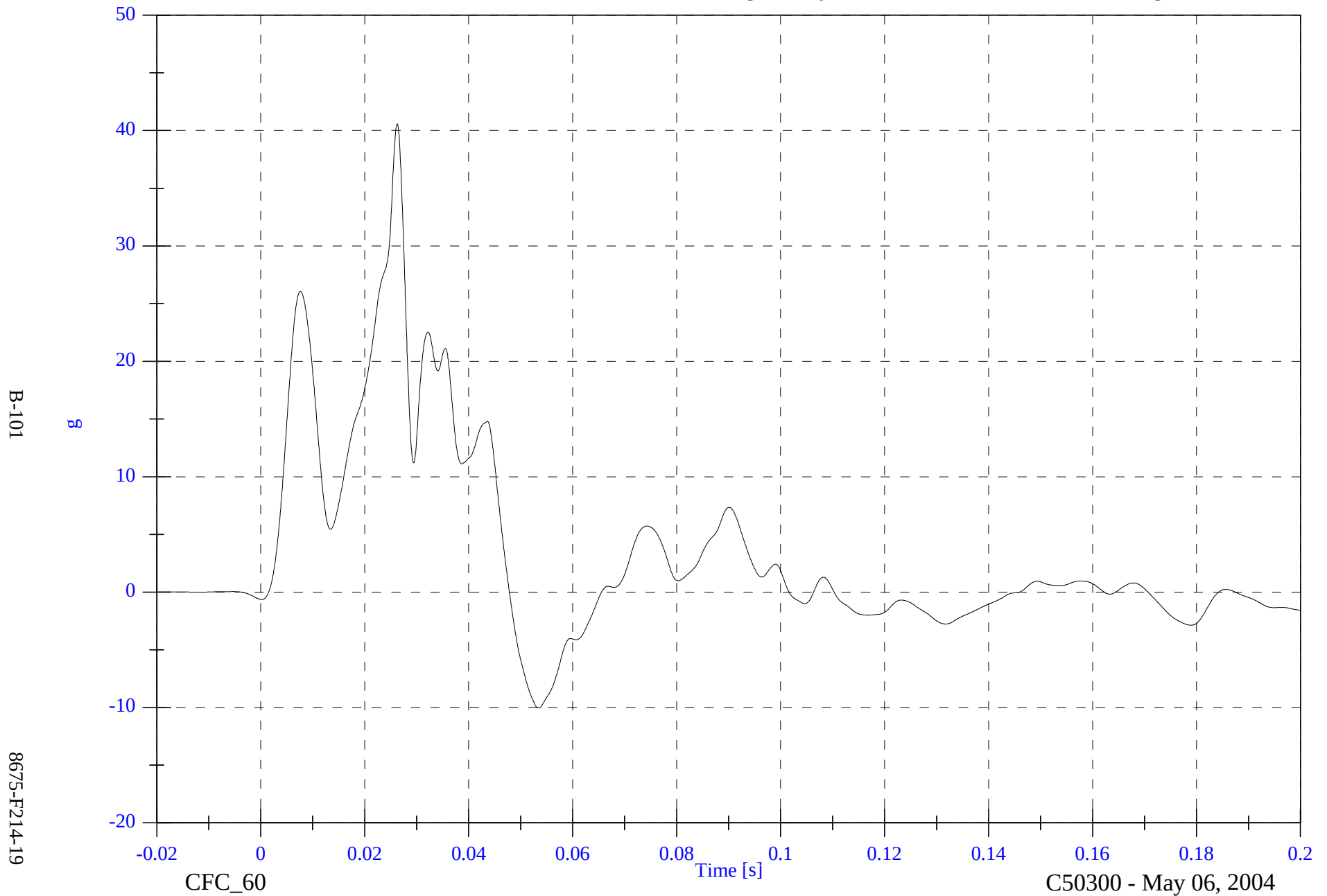
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A18 Target CG y

Max: 40.6 [g] at 0.026 [s]

Min: -10.0 [g] at 0.053 [s]

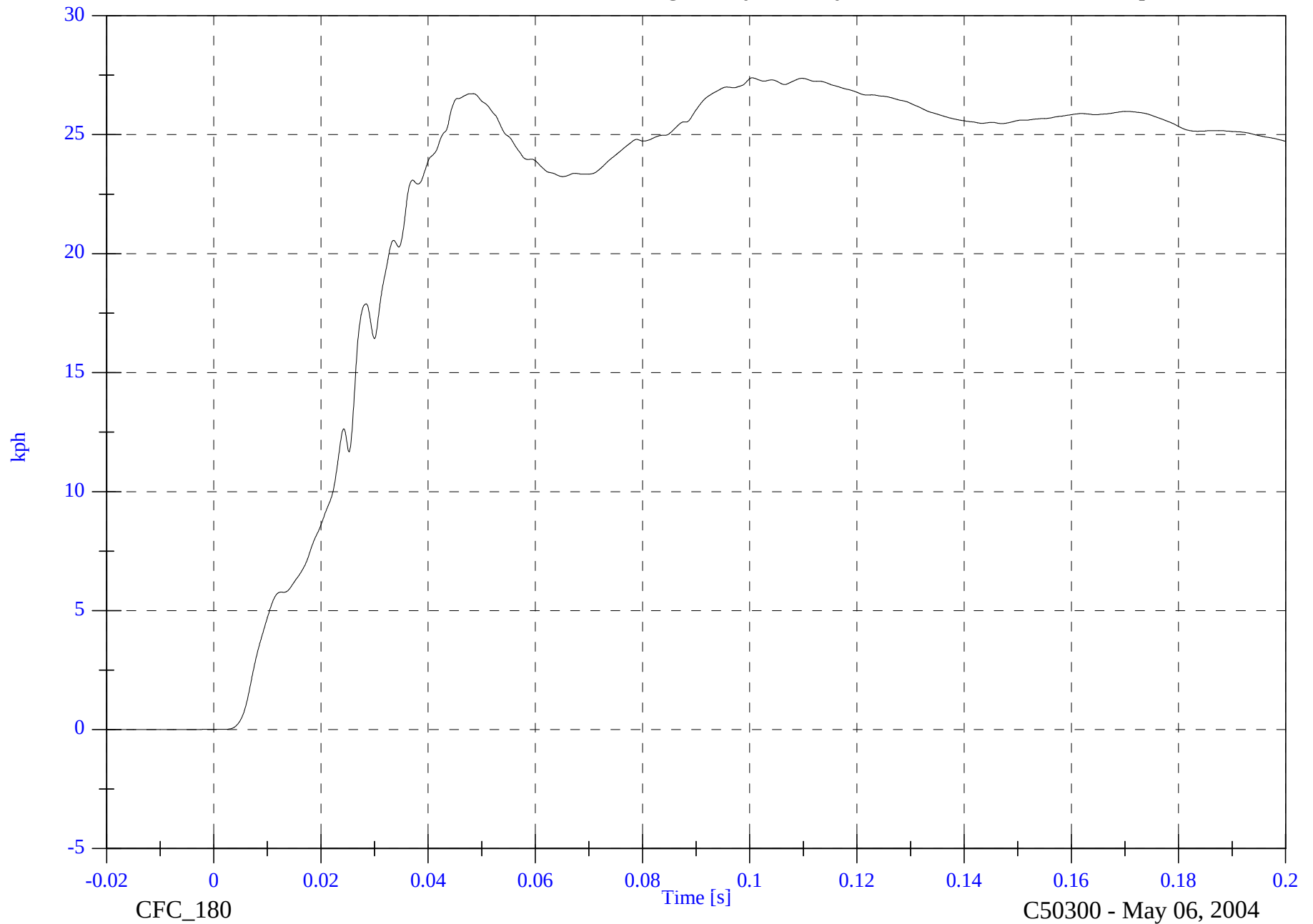


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A18 Target CG y Velocity

Max: 27.4 [kph] at 0.100 [s]

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



B-102

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

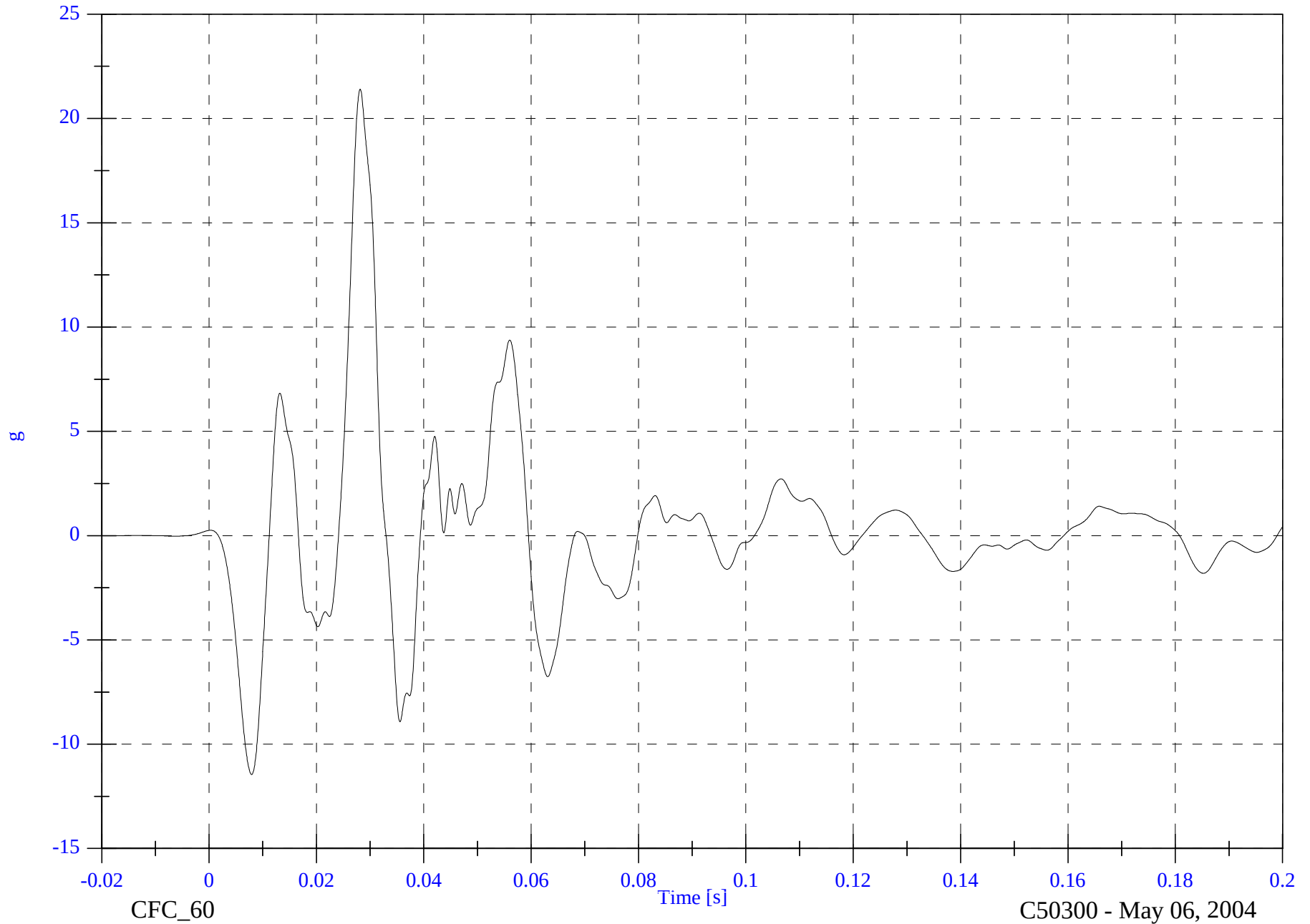
V2 A18 Target CG z

Max: 21.4 [g] at 0.028 [s]

Min: -11.5 [g] at 0.008 [s]

B-103

8675-F214-19

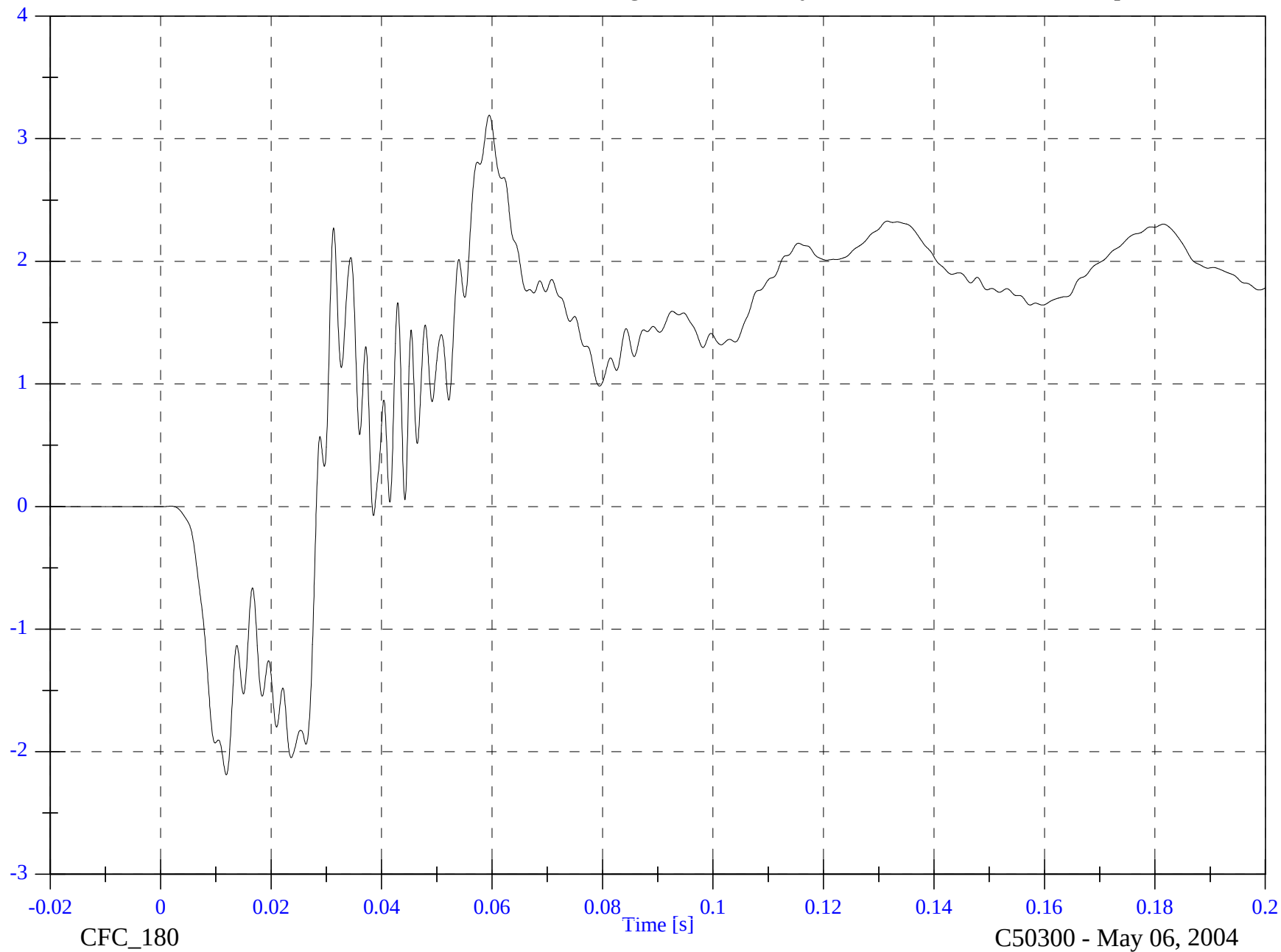


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A18 Target CG z Velocity

Max: 3.2 [kph] at 0.059 [s]

Min: -2.2 [kph] at 0.012 [s]



B-104

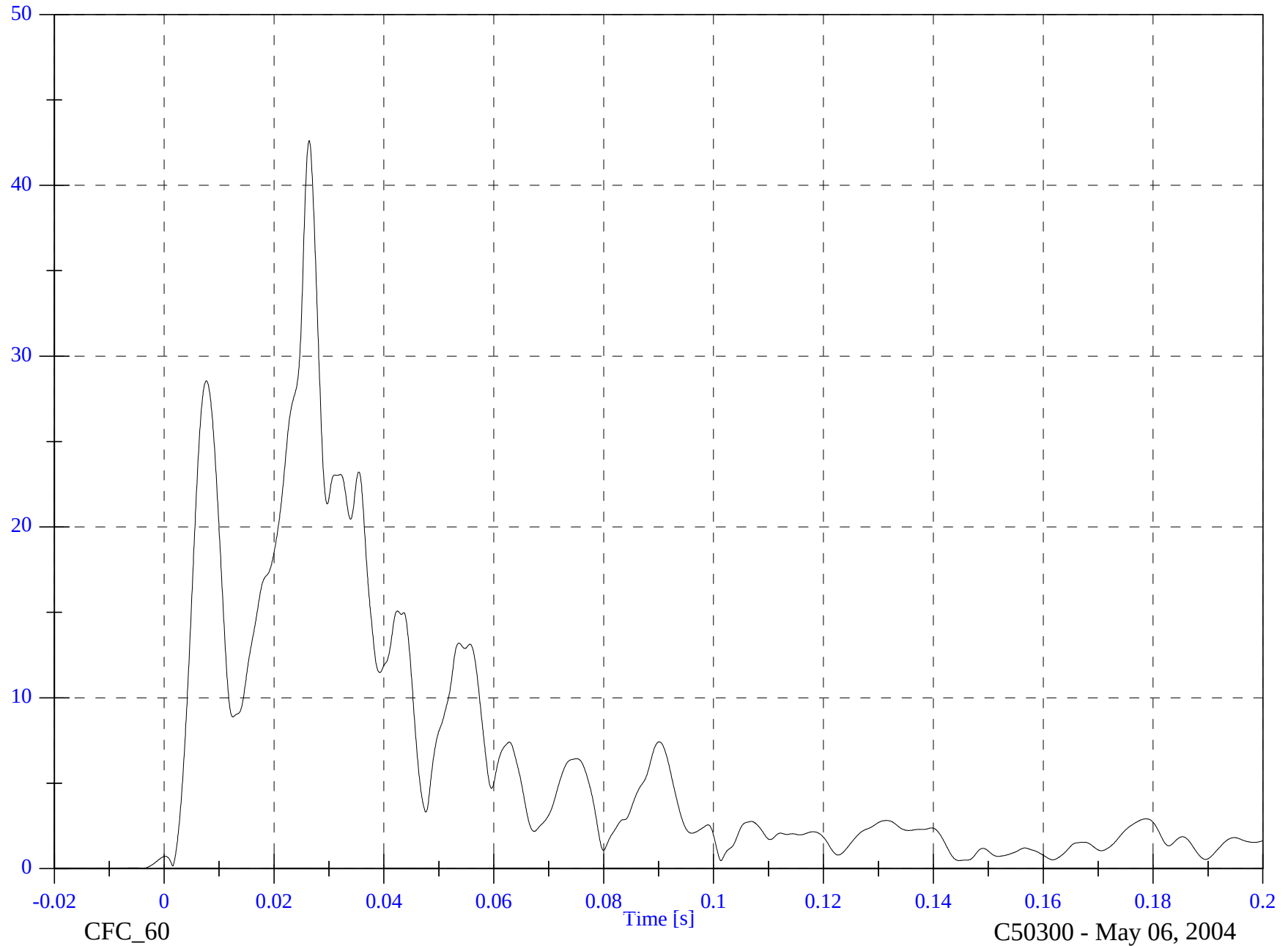
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2 A18 Target CG Resultant

Max: 42.6 [g] at 0.026 [s]

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



B-105

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

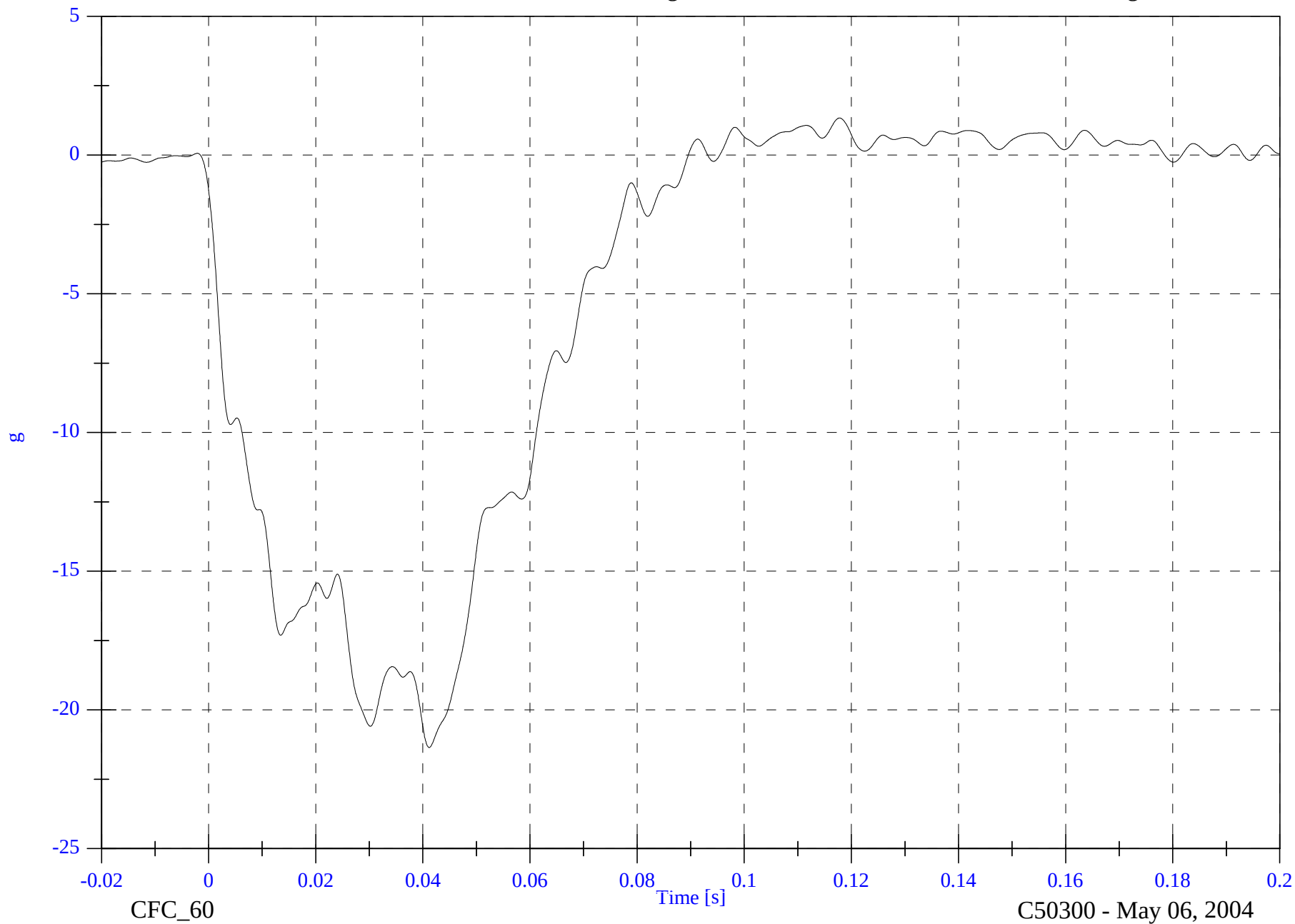
V1 Moving Barrier CG X

Max: 1.3 [g] at 0.118 [s]

Min: -21.4 [g] at 0.041 [s]

B-106

8675-F214-19

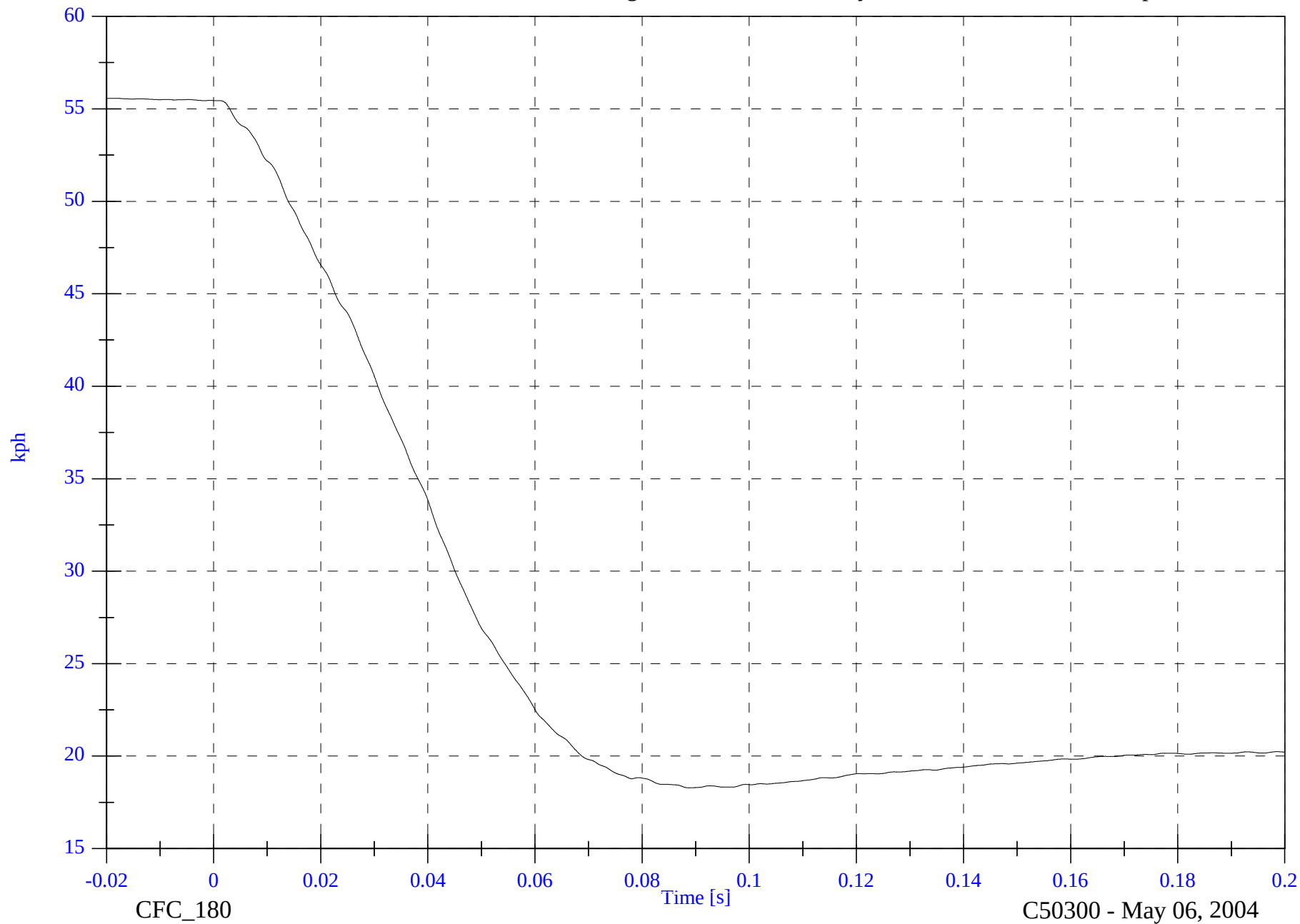


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier CG X Velocity

Max: 55.6 [kph] at -0.018 [s]

Min: 18.3 [kph] at 0.089 [s]



B-107

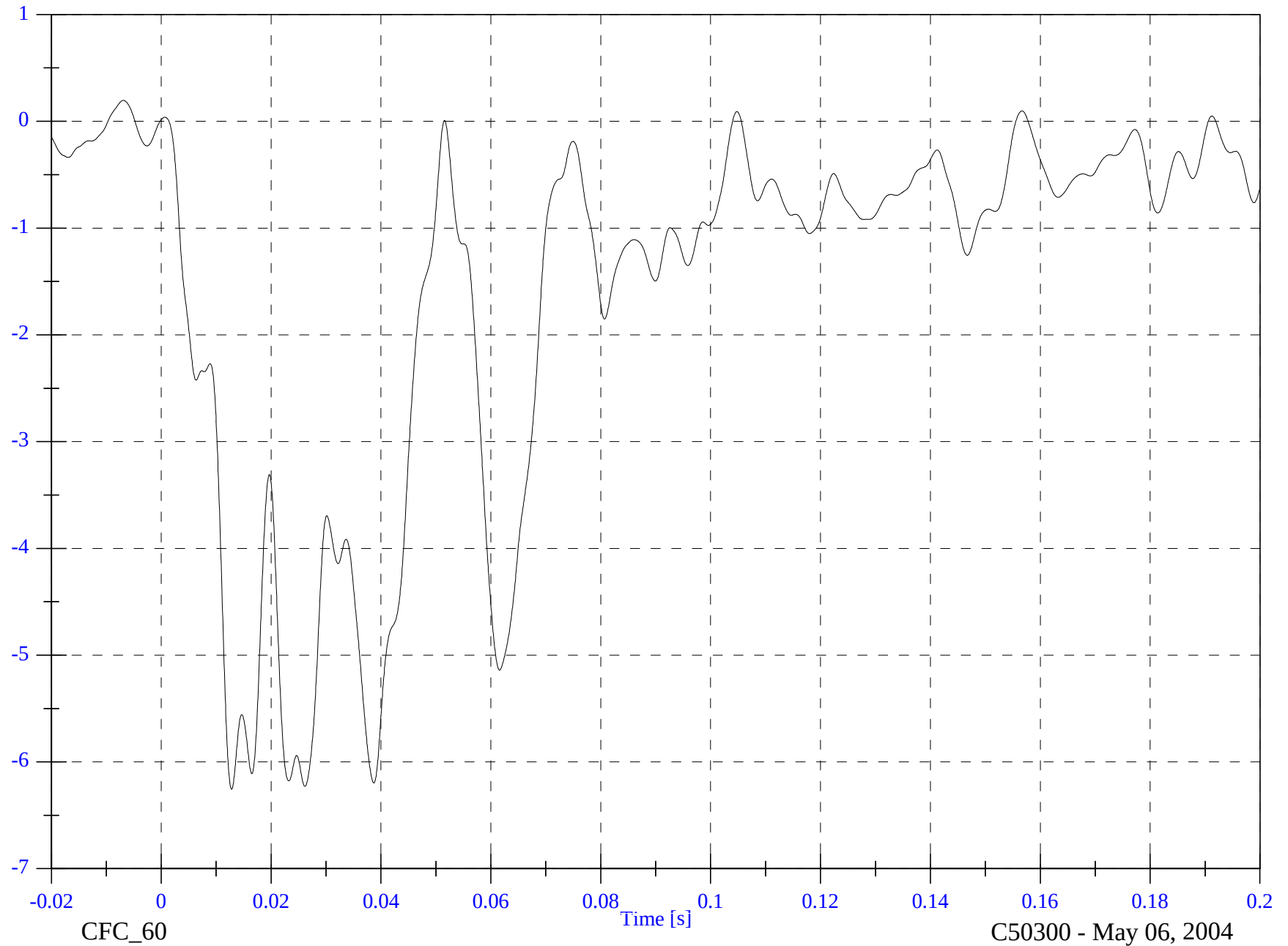
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier CG Y

Max: 0.2 [g] at -0.007 [s]

Min: -6.3 [g] at 0.013 [s]



B-108

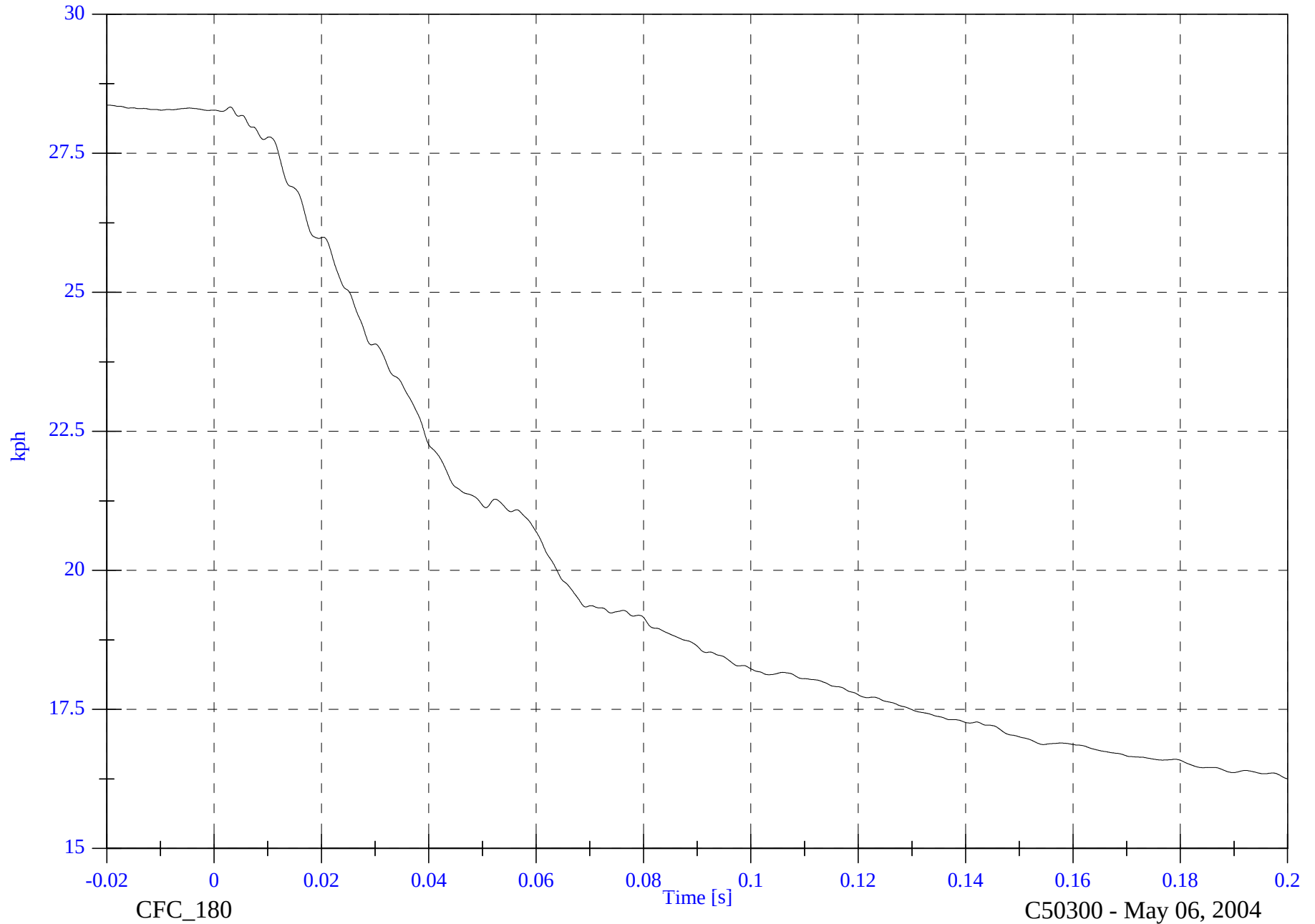
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier CG Y Velocity

Max: 28.4 [kph] at -0.020 [s]

Min: 16.3 [kph] at 0.200 [s]



B-109

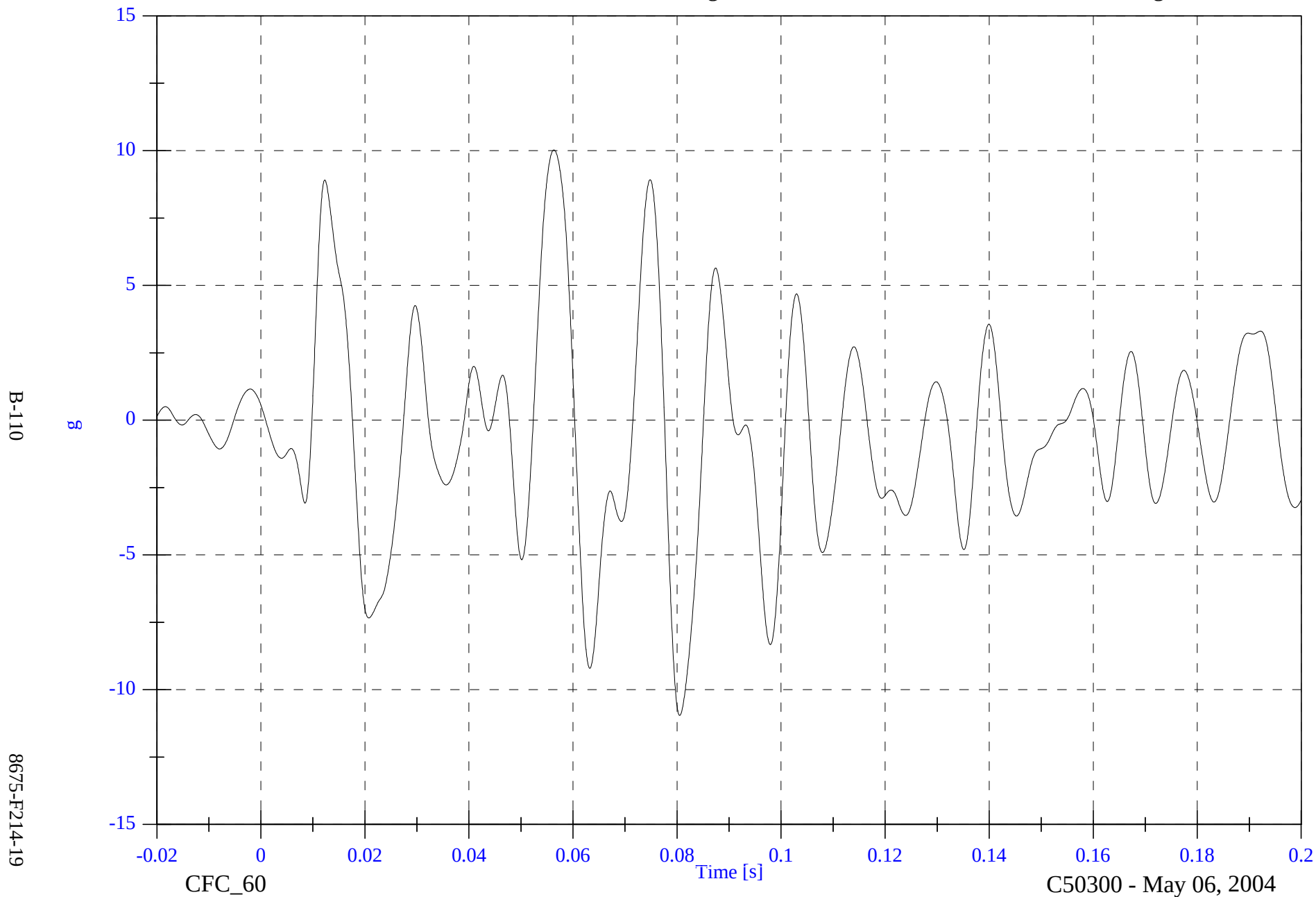
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier CG Z

Max: 10.0 [g] at 0.056 [s]

Min: -11.0 [g] at 0.080 [s]

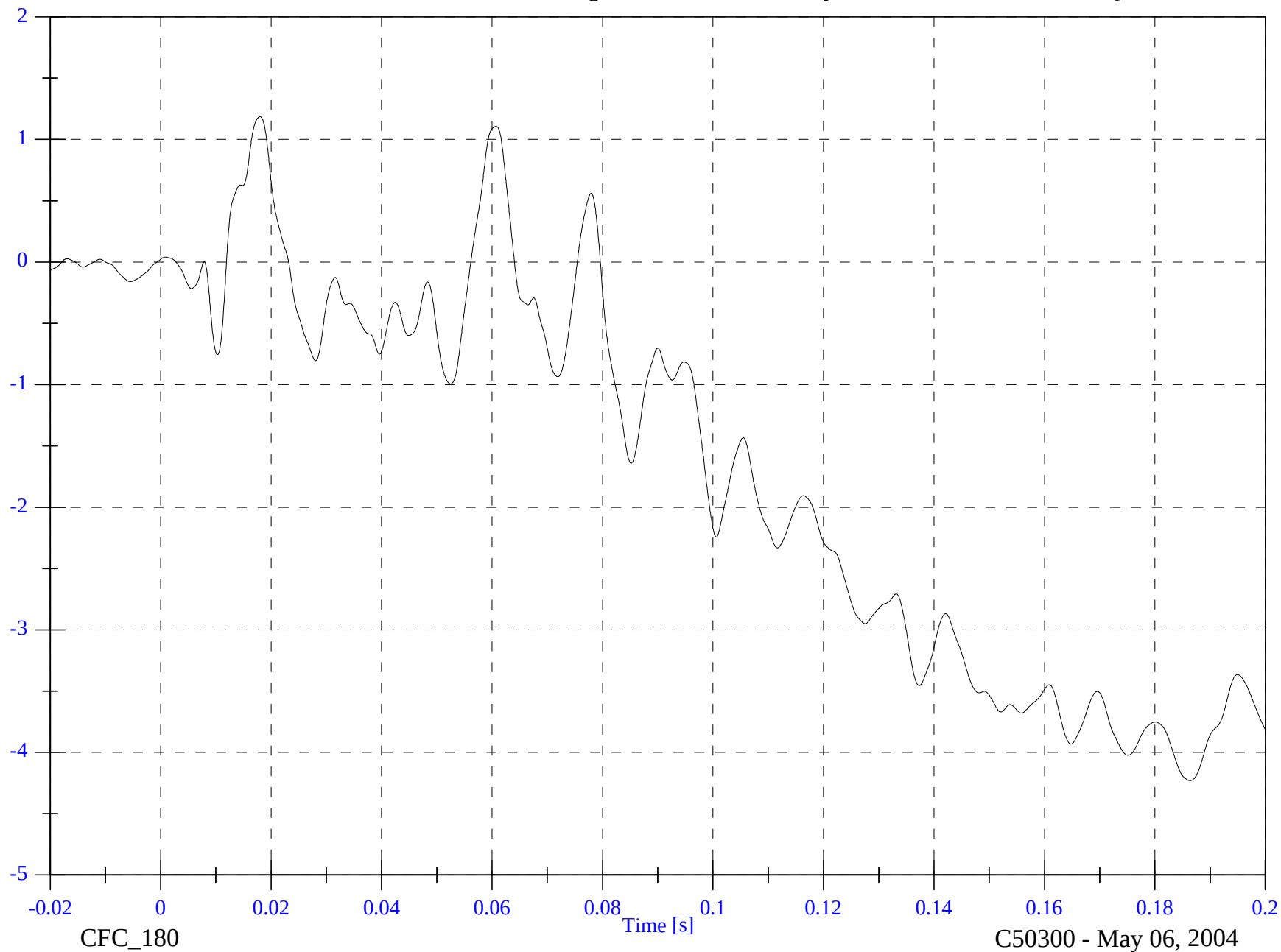


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier CG Z Velocity

Max: 1.2 [kph] at 0.018 [s]

Min: -4.2 [kph] at 0.186 [s]



B-111

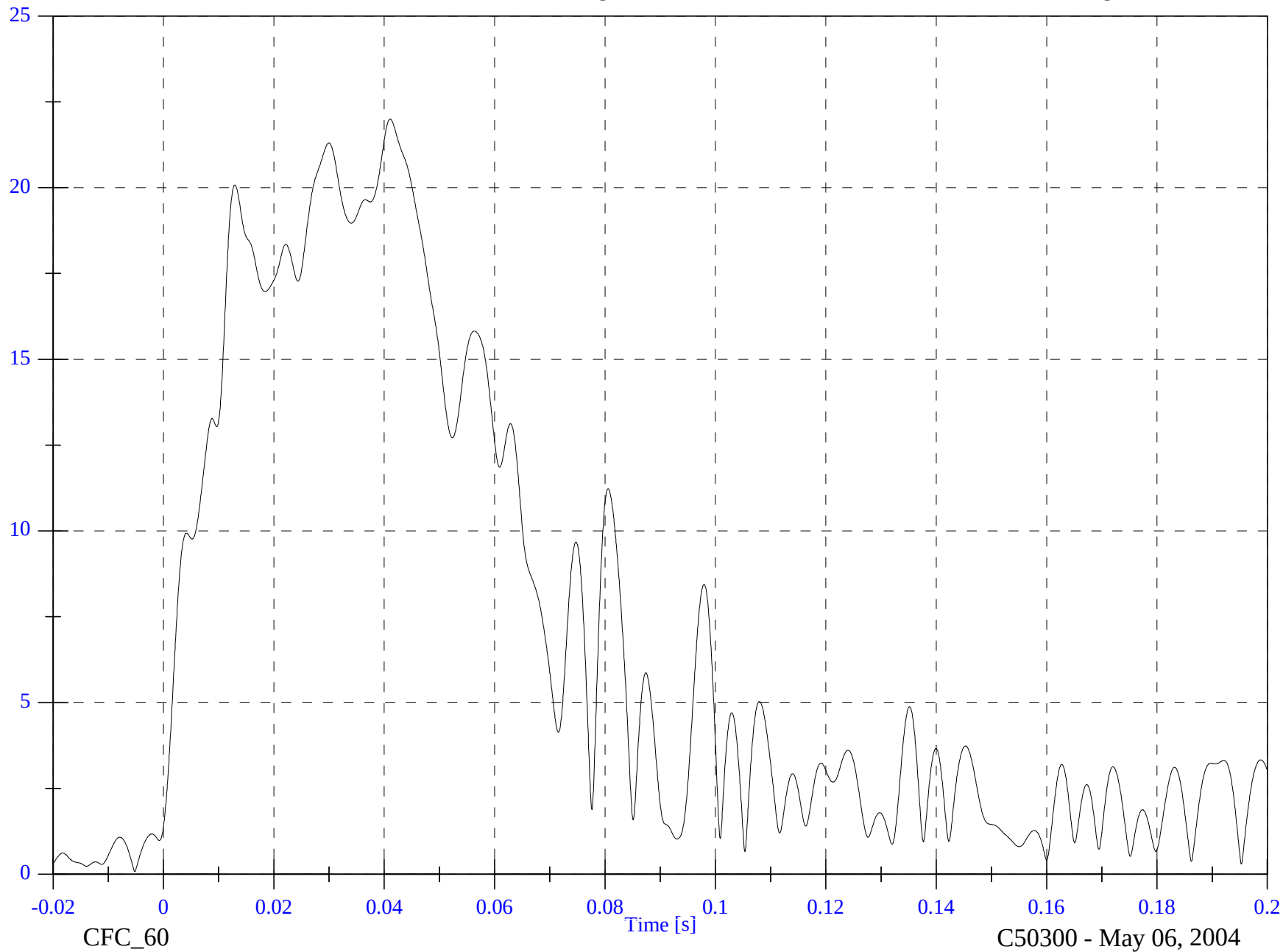
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier CG Resultant

Max: 22.0 [g] at 0.041 [s]

Min: 0.1 [g] at -0.005 [s]



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

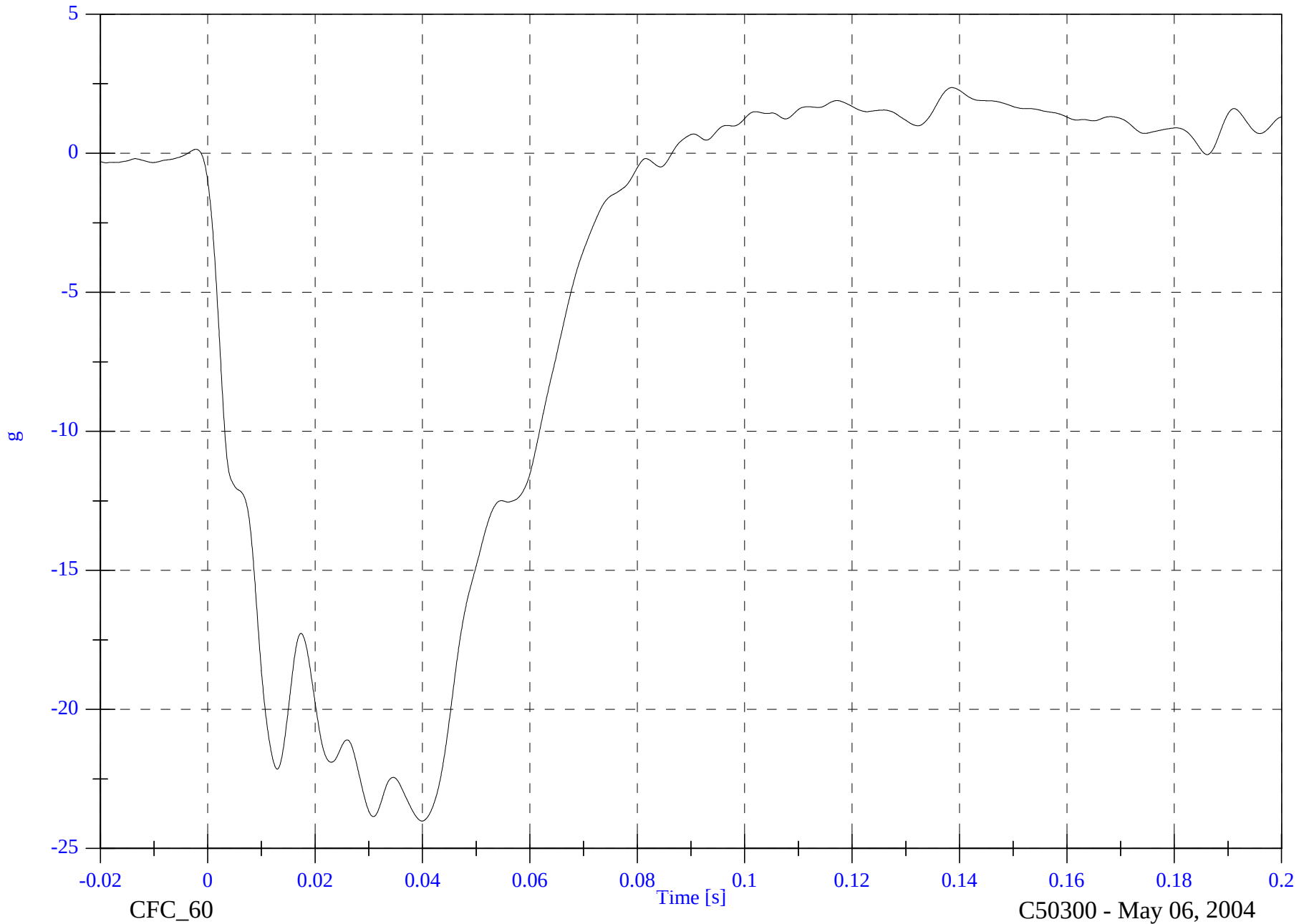
V1 Moving Barrier Left Rail X

Max: 2.4 [g] at 0.139 [s]

Min: -24.0 [g] at 0.040 [s]

B-113

8675-F214-19

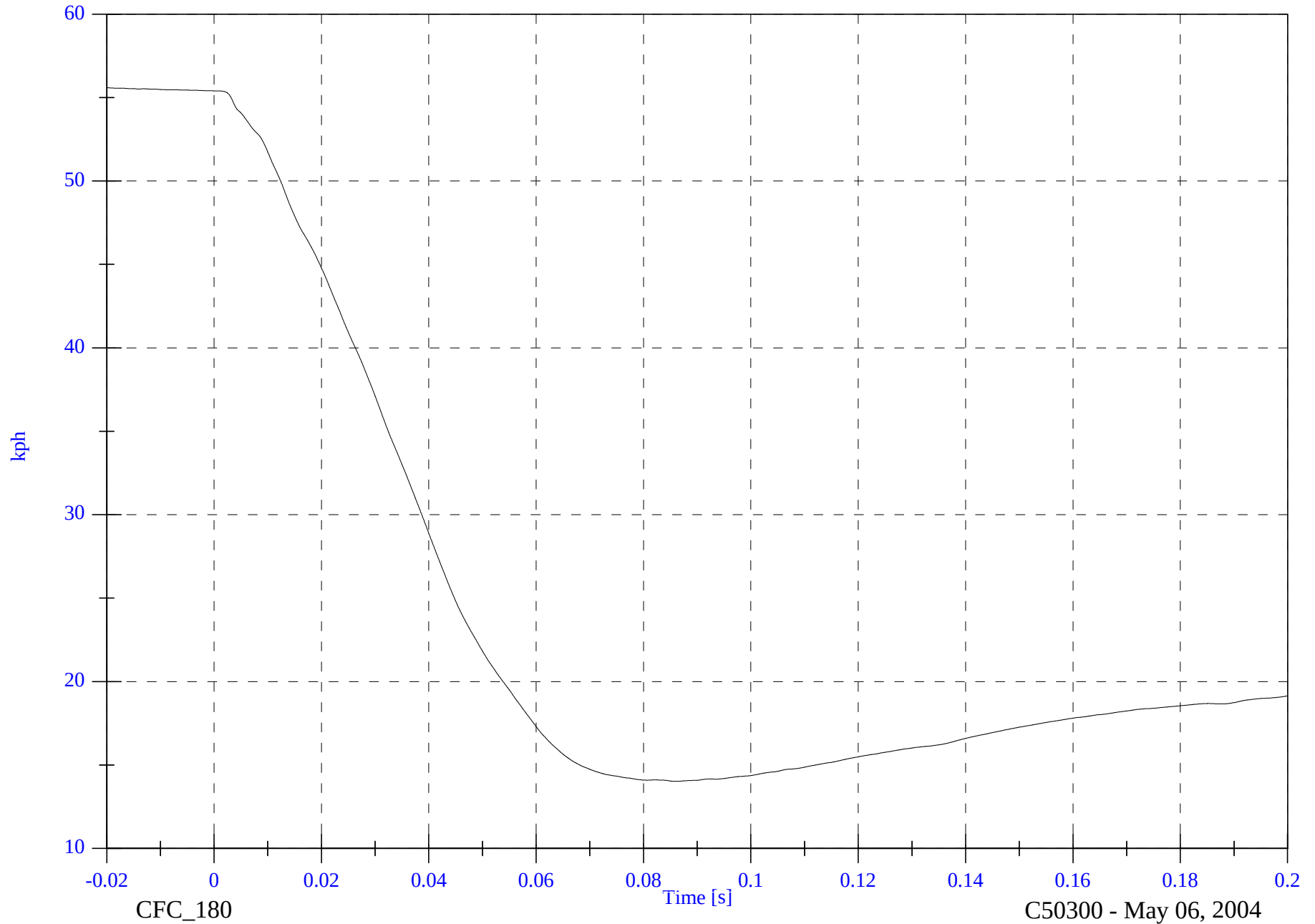


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier Left Rail X Velocity

Max: 55.6 [kph] at -0.020 [s]

Min: 14.0 [kph] at 0.086 [s]



B-114

8675-F214-19

CFC_180

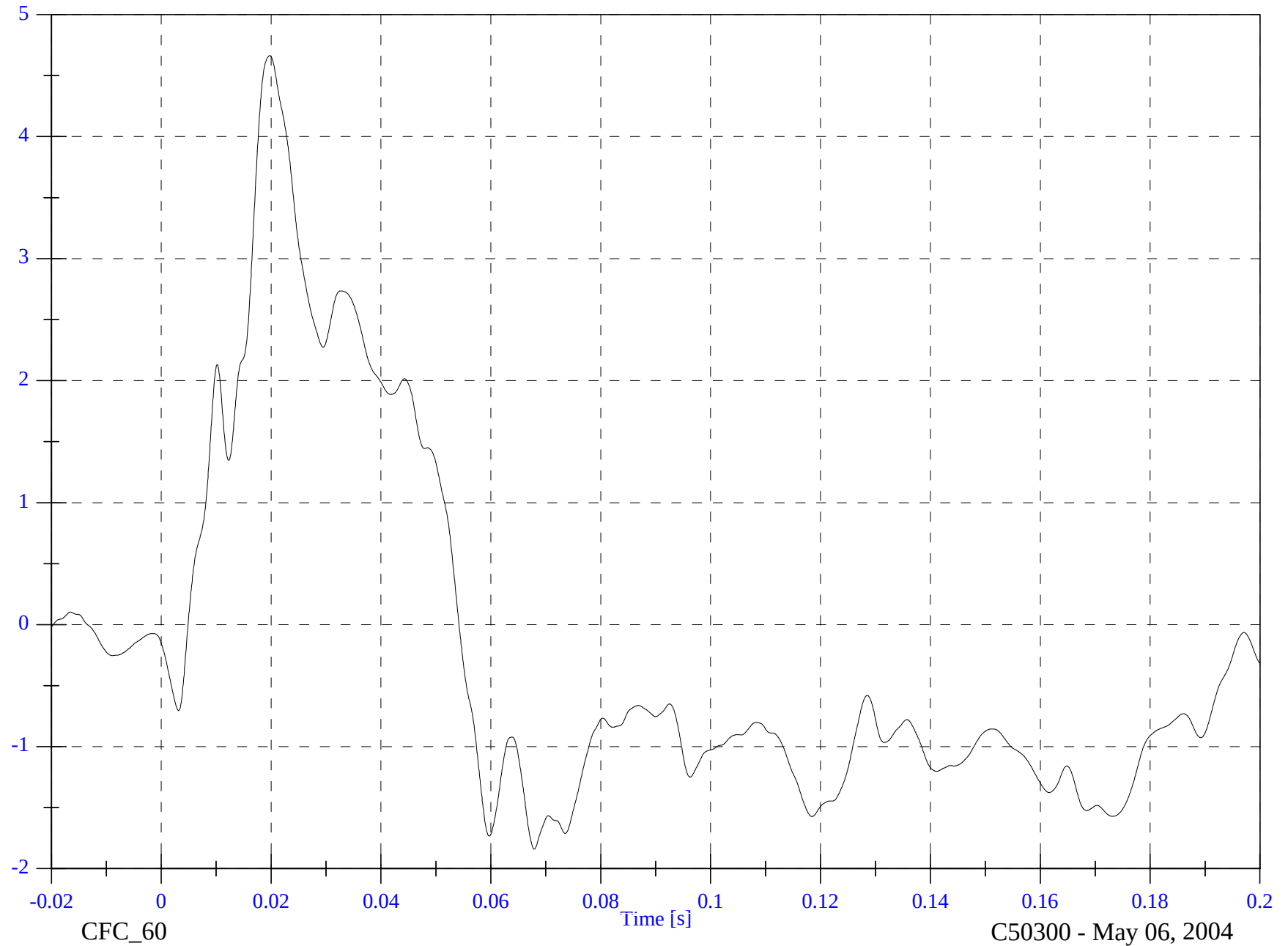
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier Left Rail Y

Max: 4.7 [g] at 0.020 [s]

Min: -1.8 [g] at 0.068 [s]



B-115

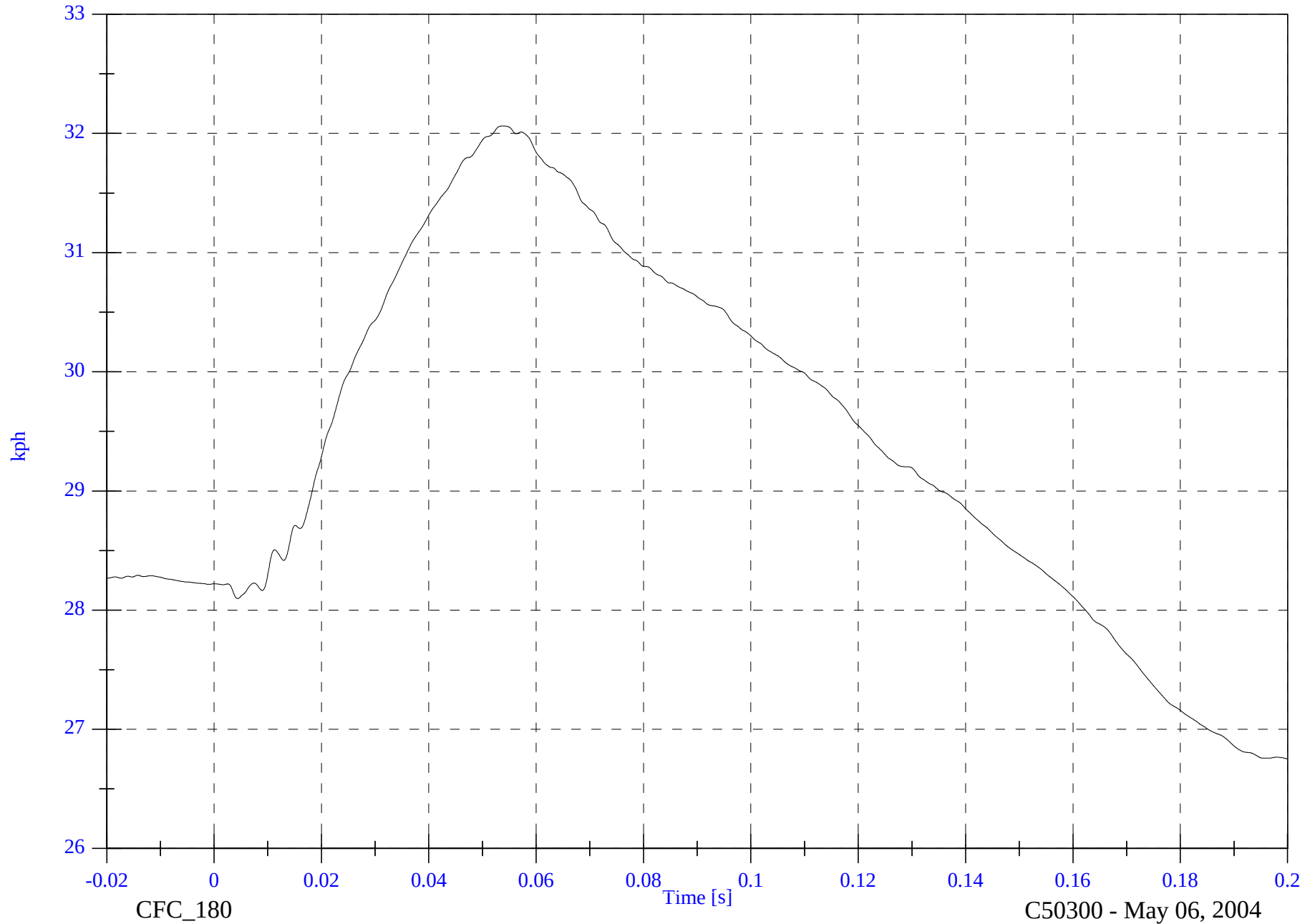
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V1 Moving Barrier Left Rail Y Velocity

Max: 32.1 [kph] at 0.054 [s]

Min: 26.7 [kph] at 0.200 [s]



B-116

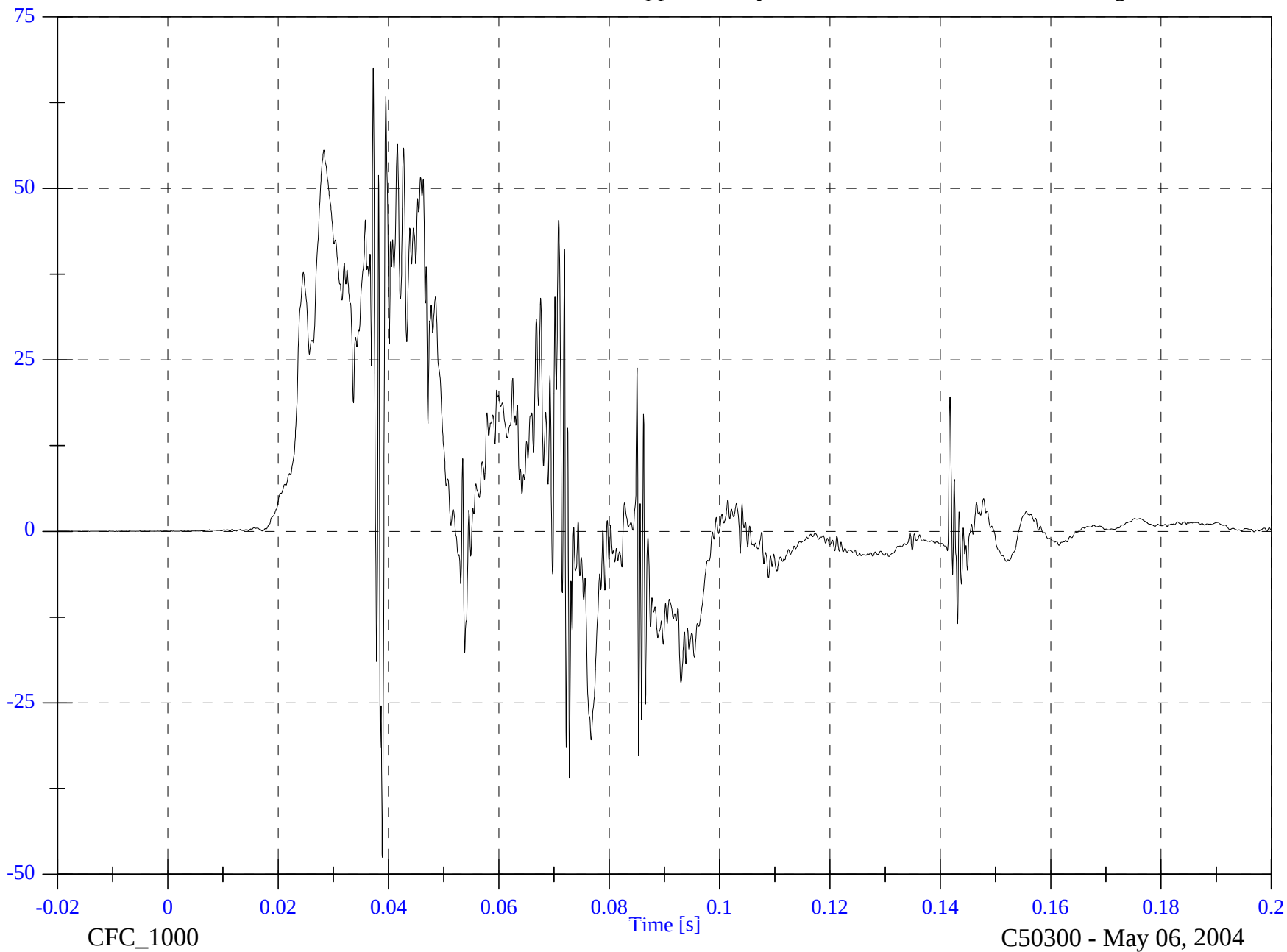
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Rib Ry

Max: 67.5 [g] at 0.037 [s]

Min: -47.5 [g] at 0.039 [s]

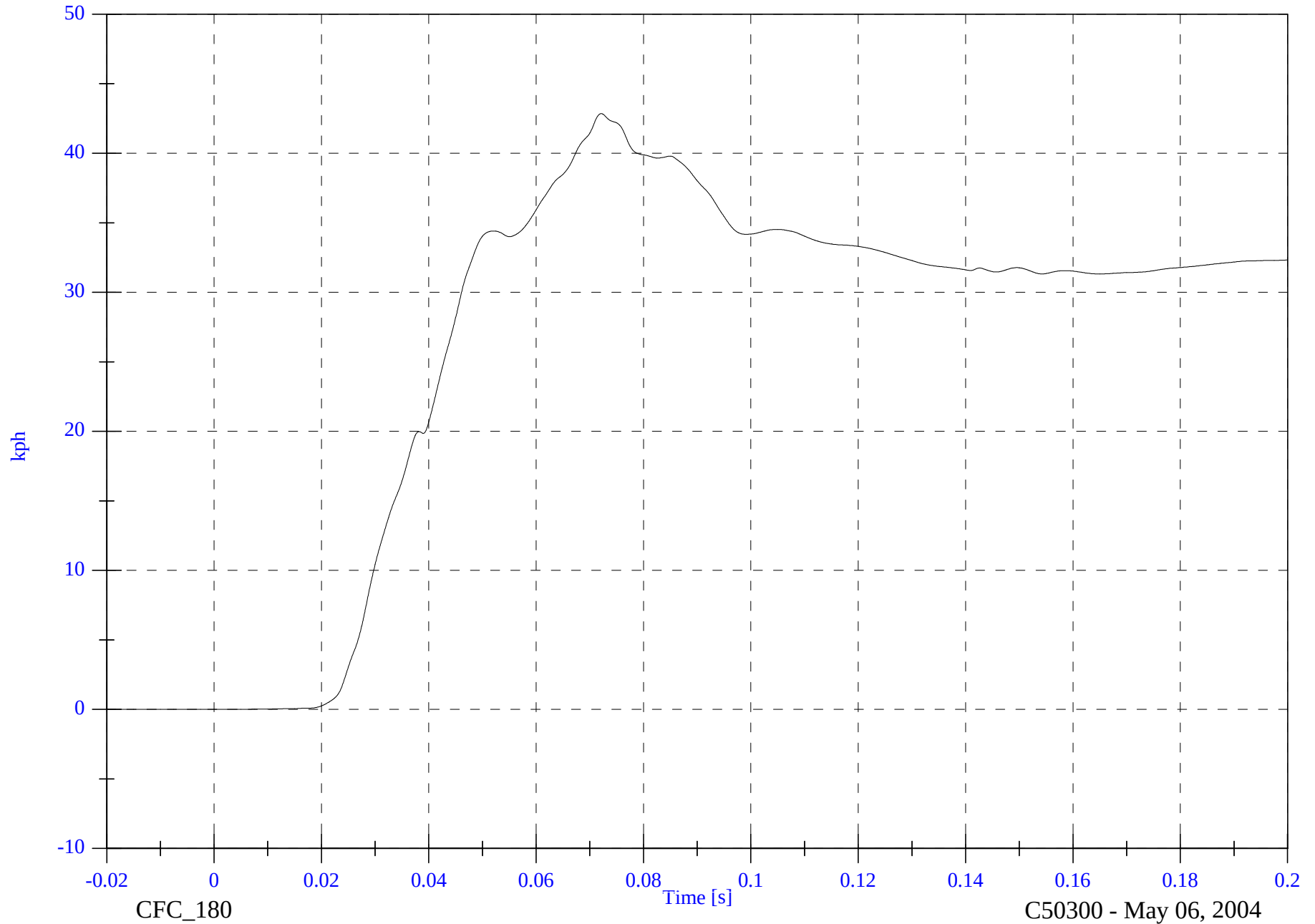


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Rib Ry Velocity

Max: 42.9 [kph] at 0.072 [s]

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



B-118

8675-F214-19

CFC_180

C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

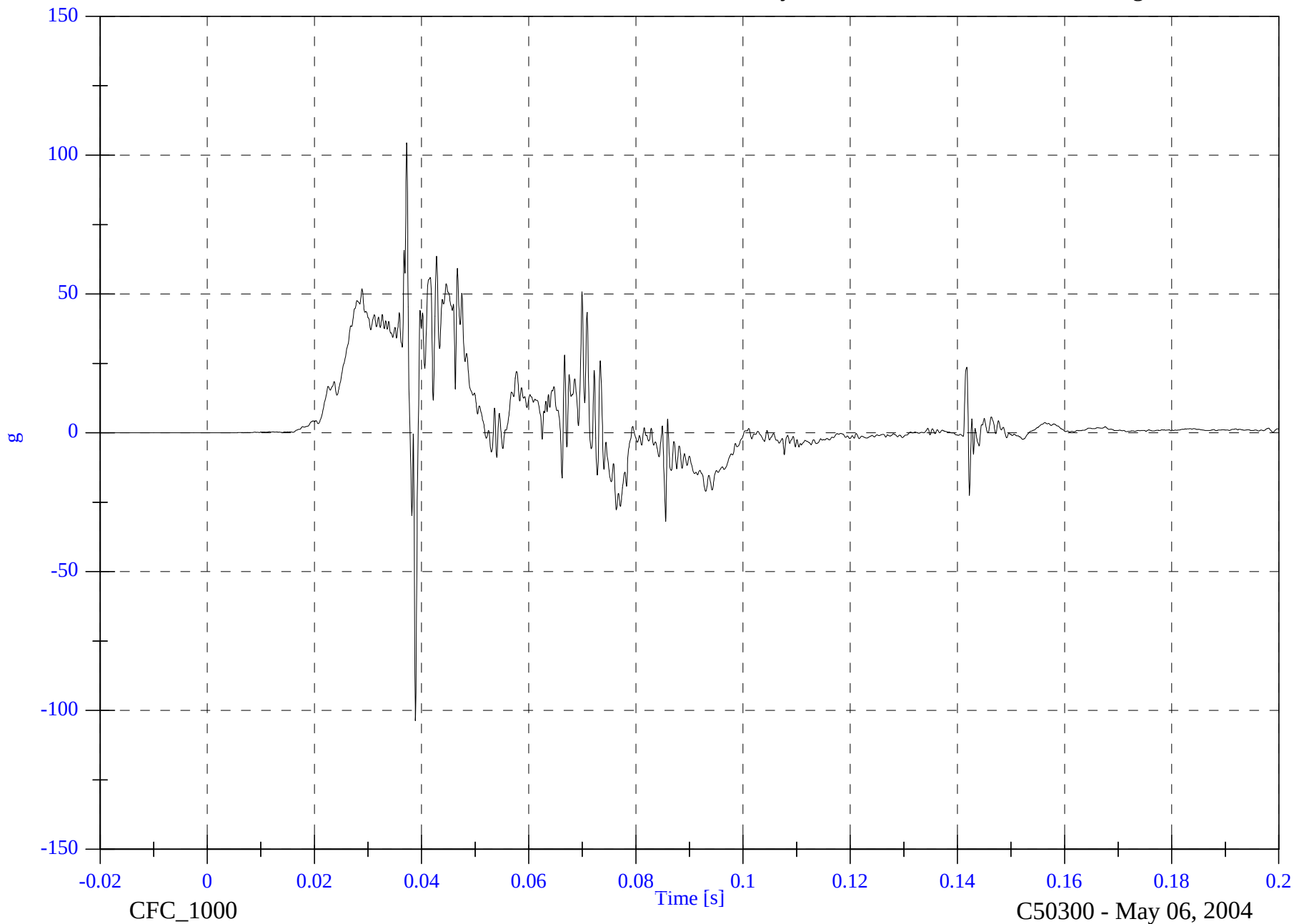
V2P1 Lower Rib Ry

Max: 104.4 [g] at 0.037 [s]

Min: -103.7 [g] at 0.039 [s]

B-119

8675-F214-19

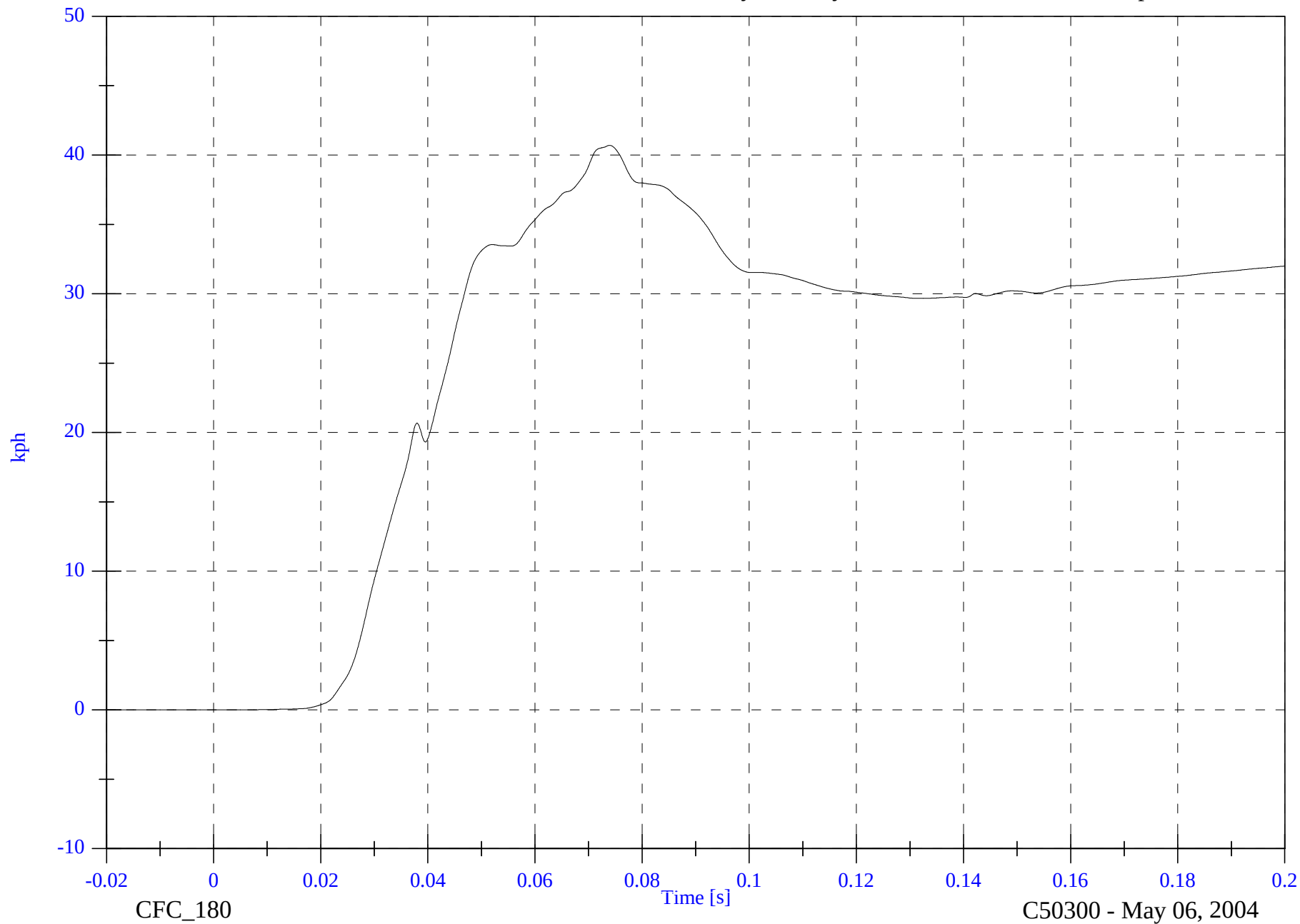


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Rib Ry Velocity

Max: 40.7 [kph] at 0.074 [s]

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



B-120

8675-F214-19

CFC_180

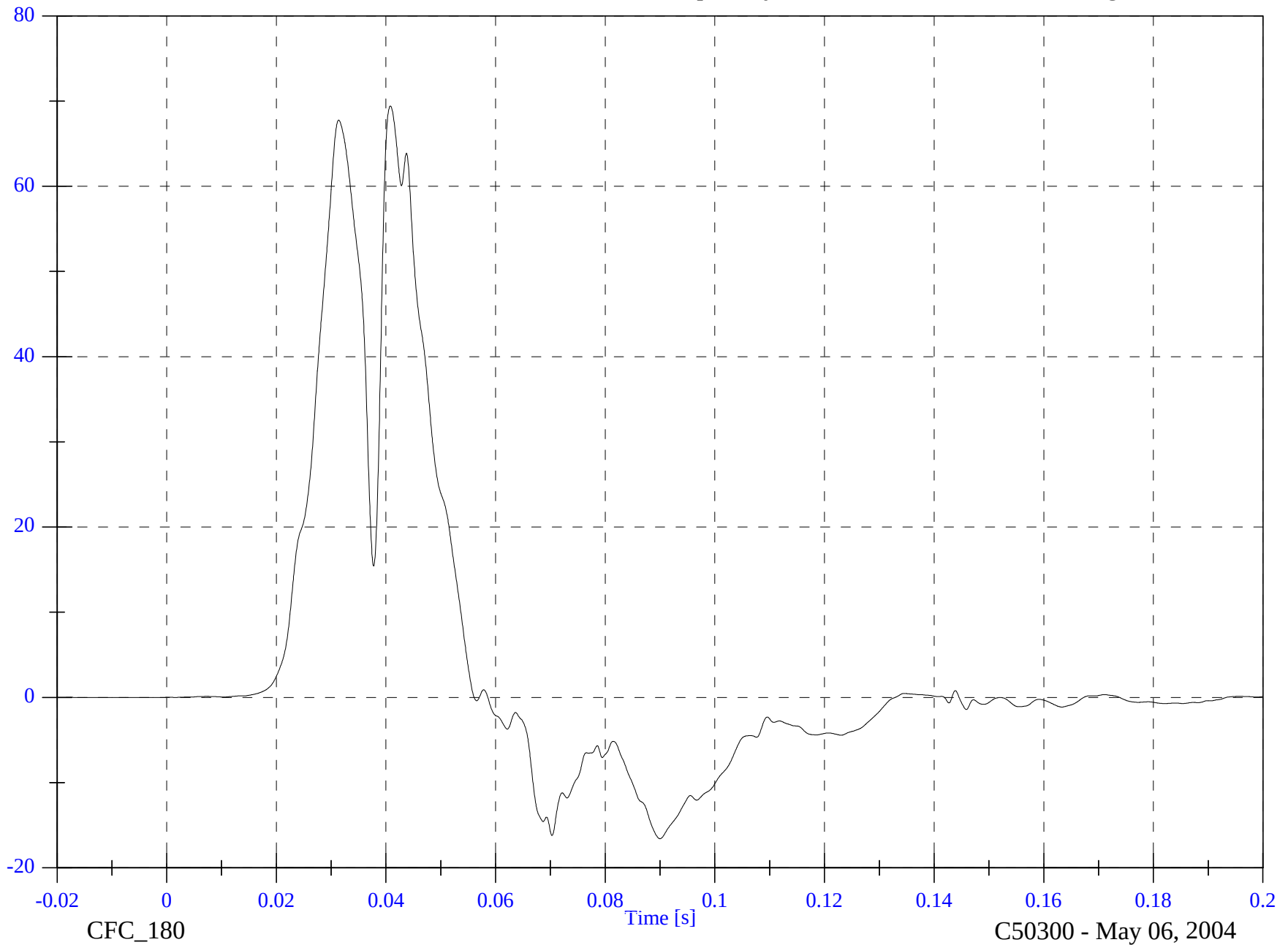
C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Spine Ry

Max: 69.4 [g] at 0.041 [s]

Min: -16.6 [g] at 0.090 [s]

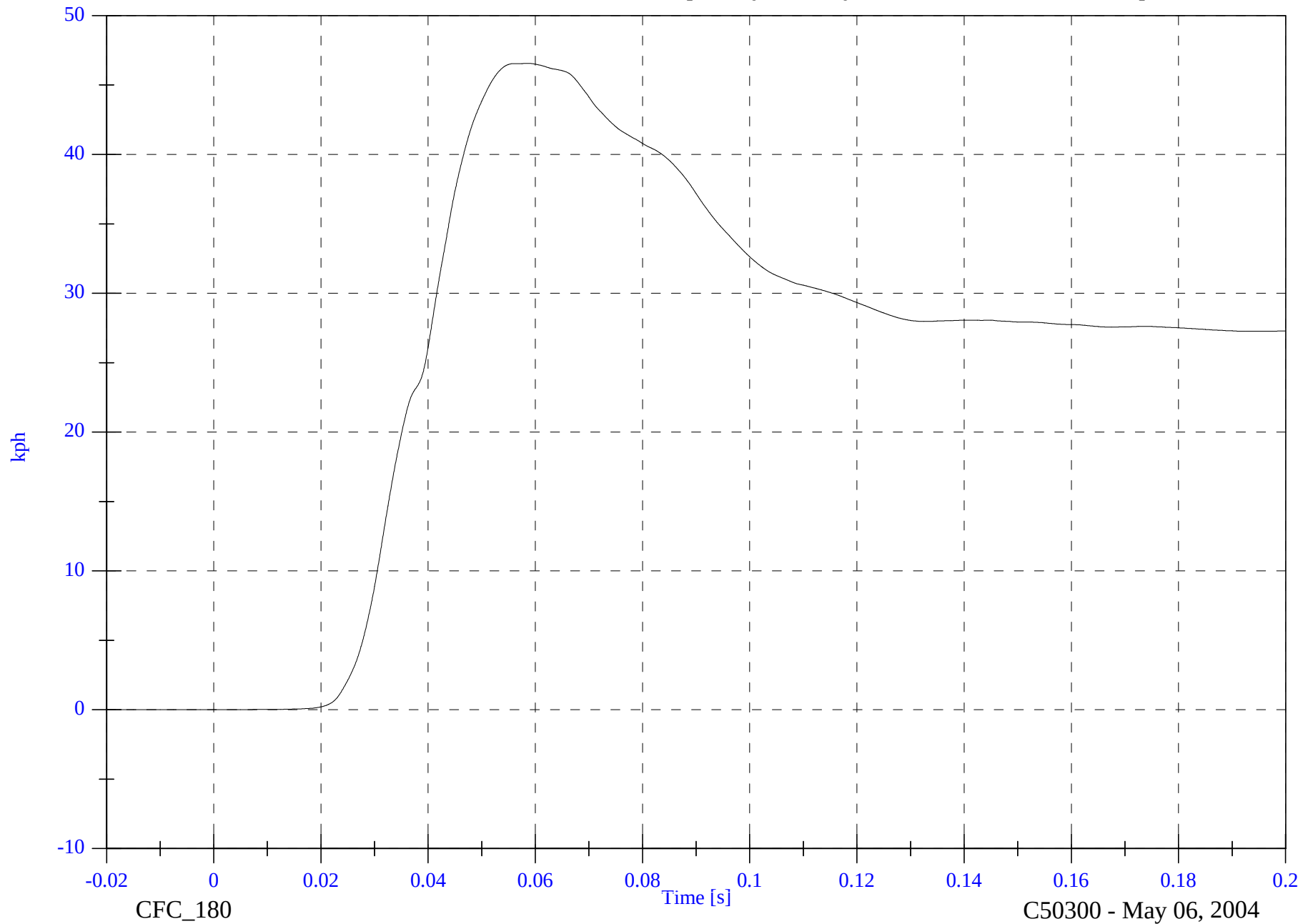


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Lower Spine Ry Velocity

Max: 46.6 [kph] at 0.059 [s]

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



B-122

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

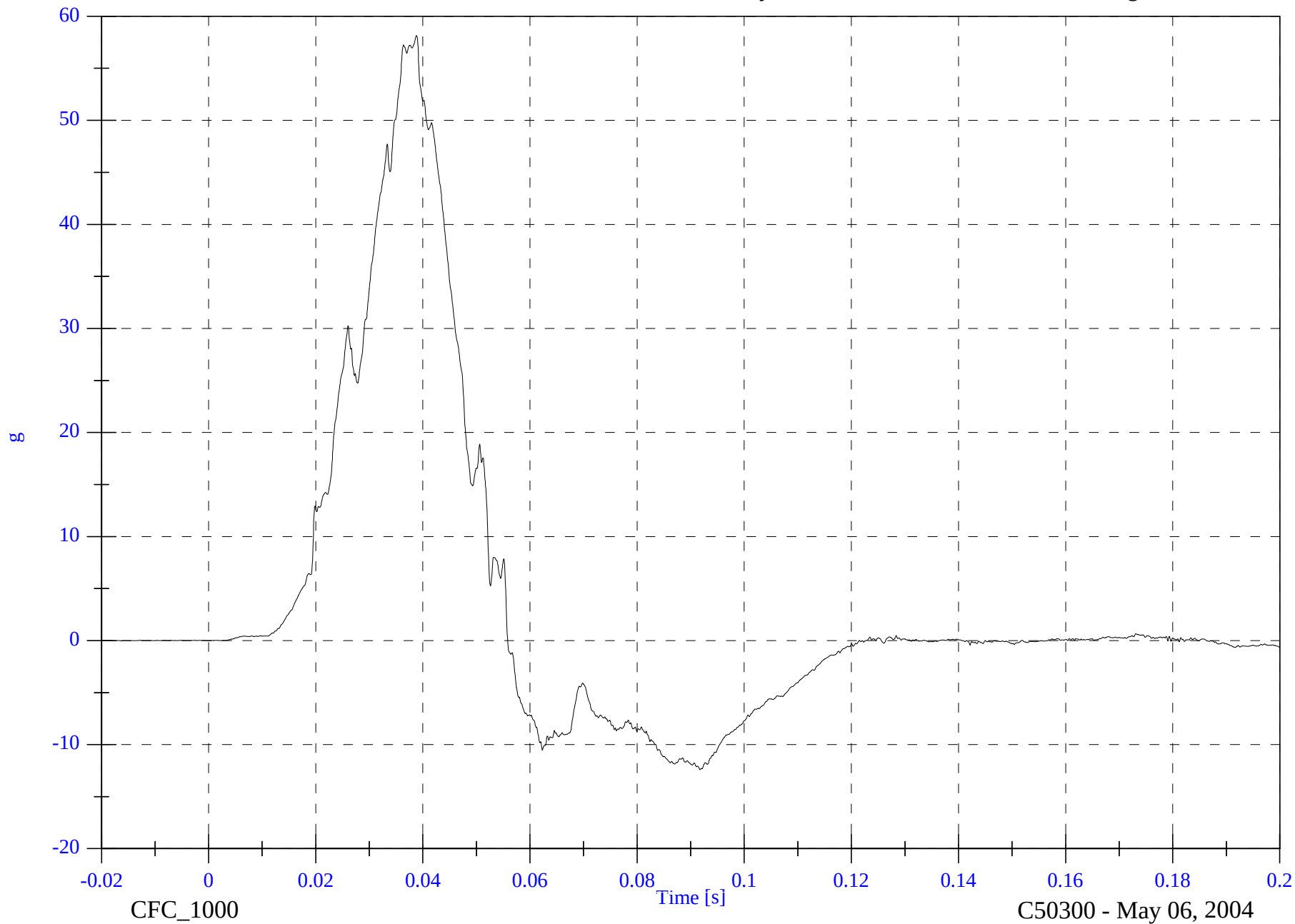
V2P1 Pelvic Ry

Max: 58.2 [g] at 0.039 [s]

Min: -12.4 [g] at 0.092 [s]

B-123

8675-F214-19

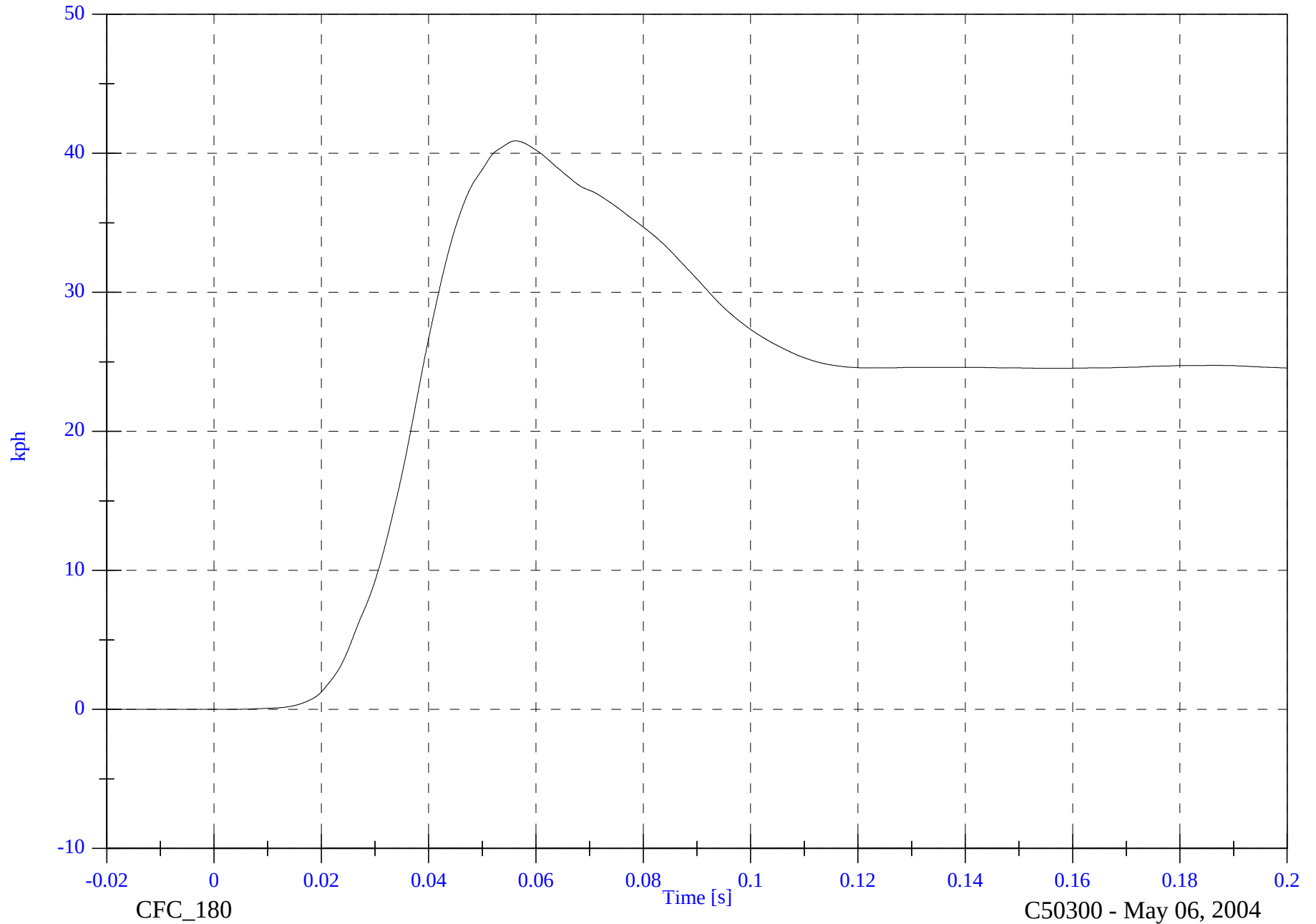


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Pelvic Ry Velocity

Max: 40.9 [kph] at 0.056 [s]

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

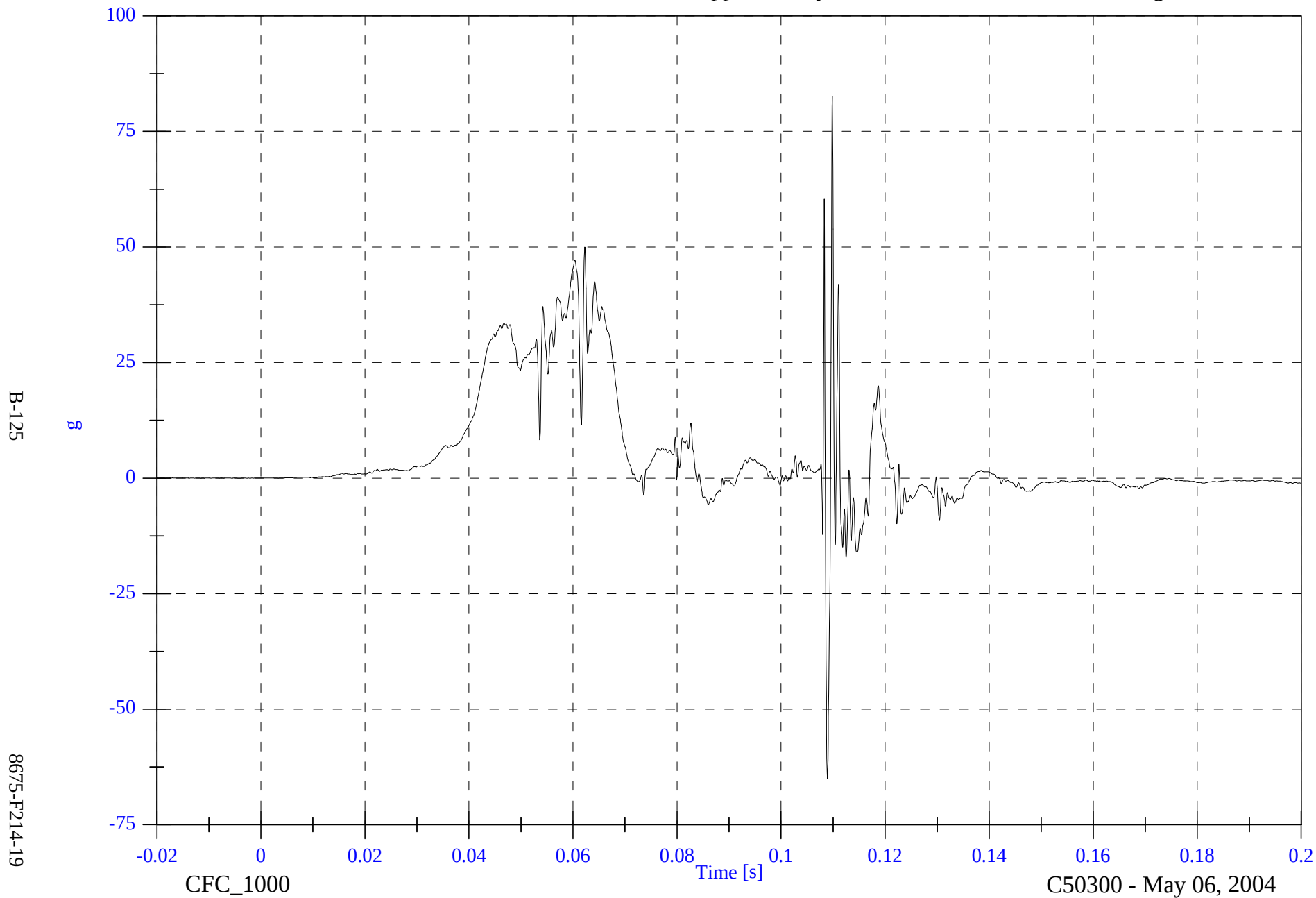


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Rib Ry

Max: 82.7 [g] at 0.110 [s]

Min: -65.1 [g] at 0.109 [s]

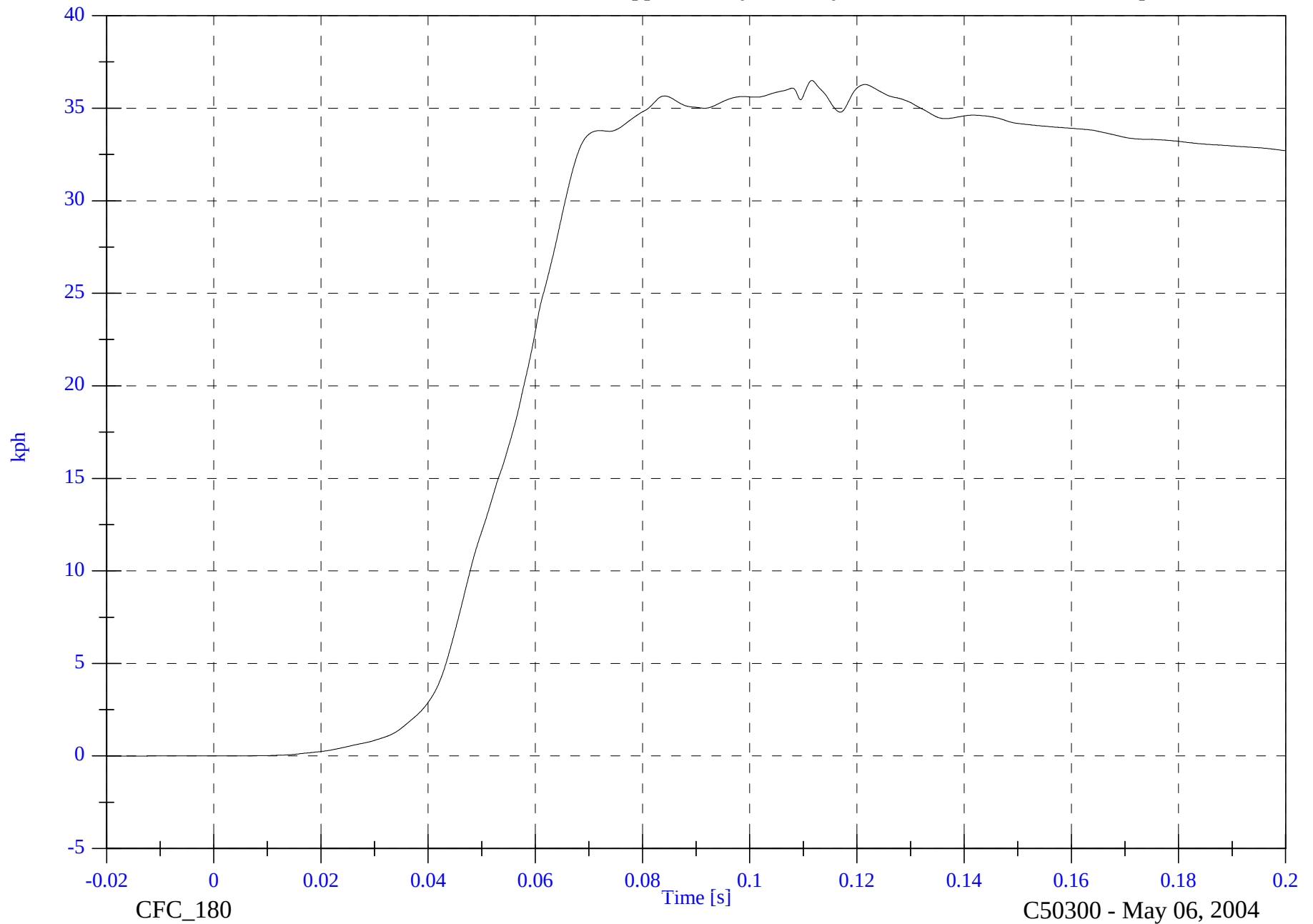


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Upper Rib Ry Velocity

Max: 36.5 [kph] at 0.112 [s]

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



B-126

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

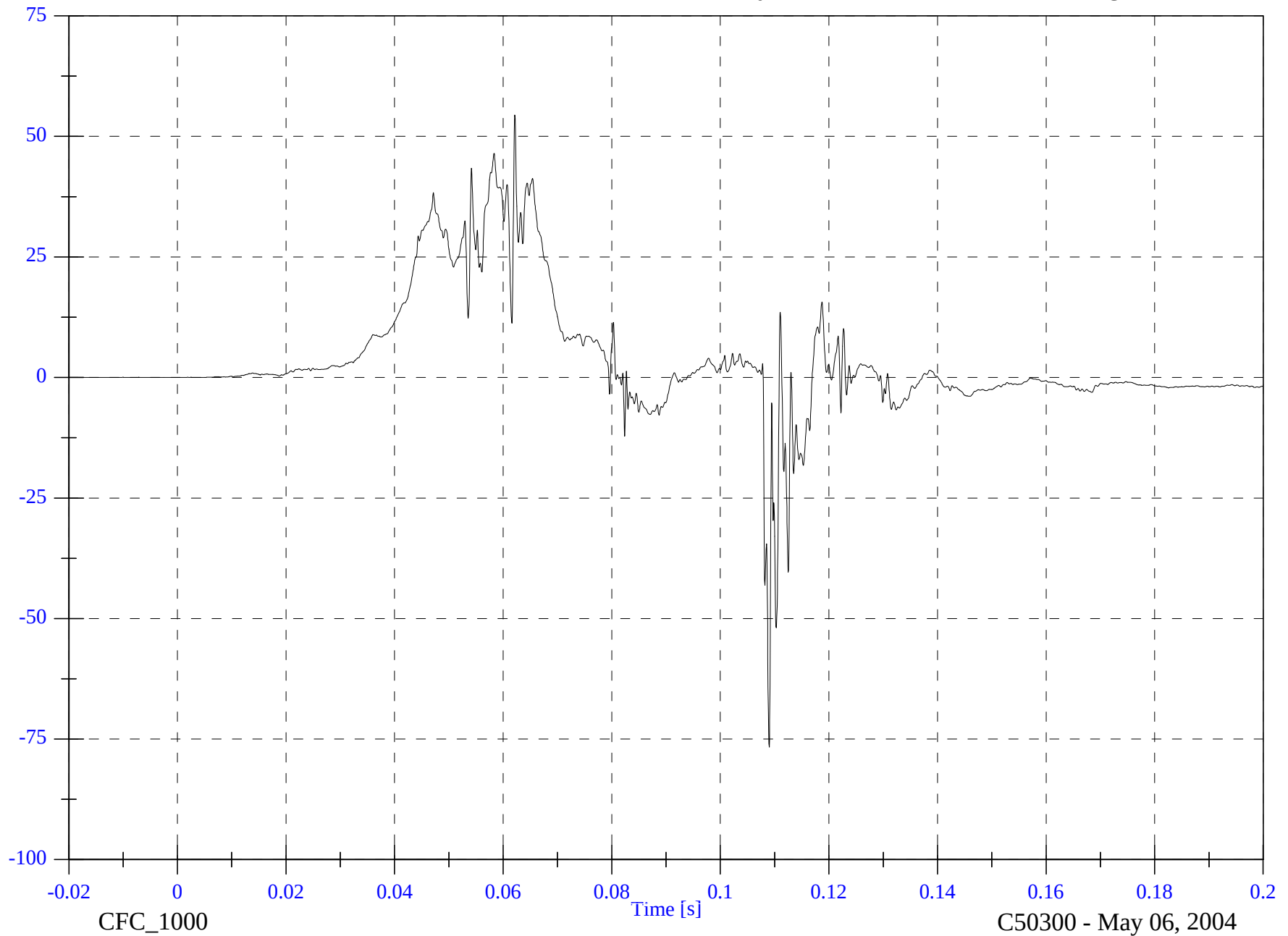
V2P4 Lower Rib Ry

Max: 54.4 [g] at 0.062 [s]

Min: -76.7 [g] at 0.109 [s]

B-127

8675-F214-19

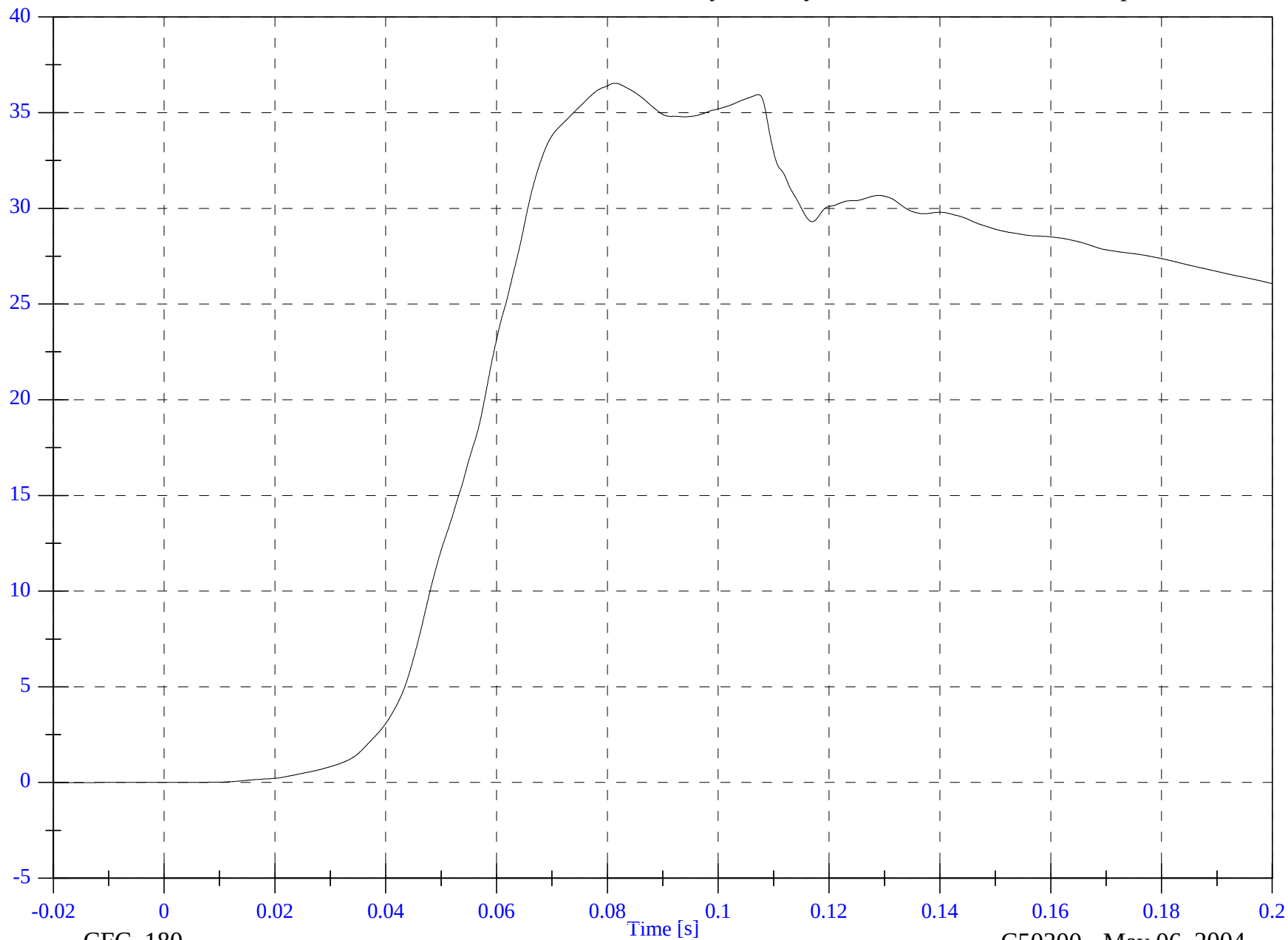


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Lower Rib Ry Velocity

Max: 36.5 [kph] at 0.081 [s]

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



B-128

8675-F214-19

CFC_180

C50300 - May 06, 2004

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

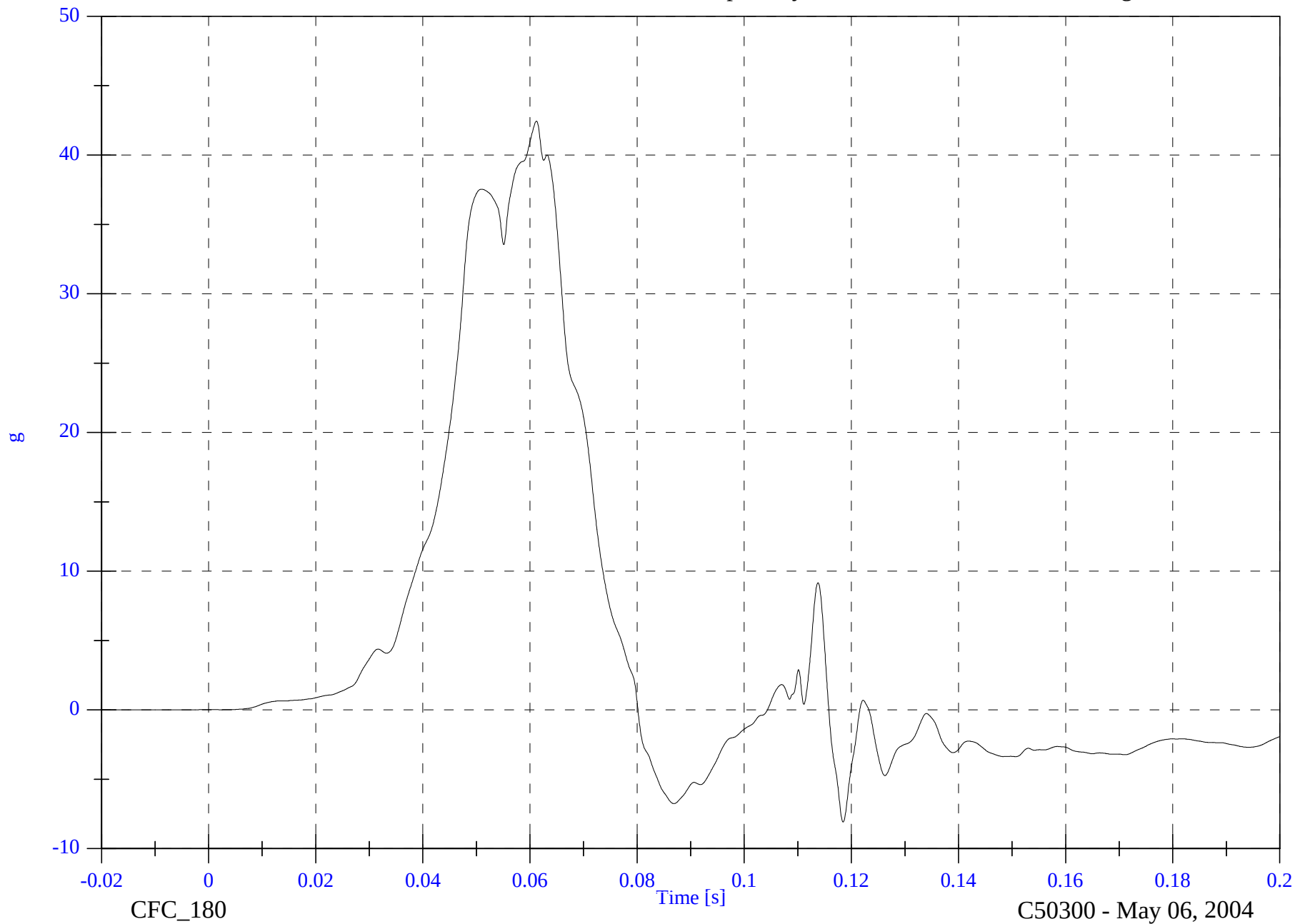
V2P4 Lower Spine Ry

Max: 42.4 [g] at 0.061 [s]

Min: -8.1 [g] at 0.118 [s]

B-129

8675-F214-19

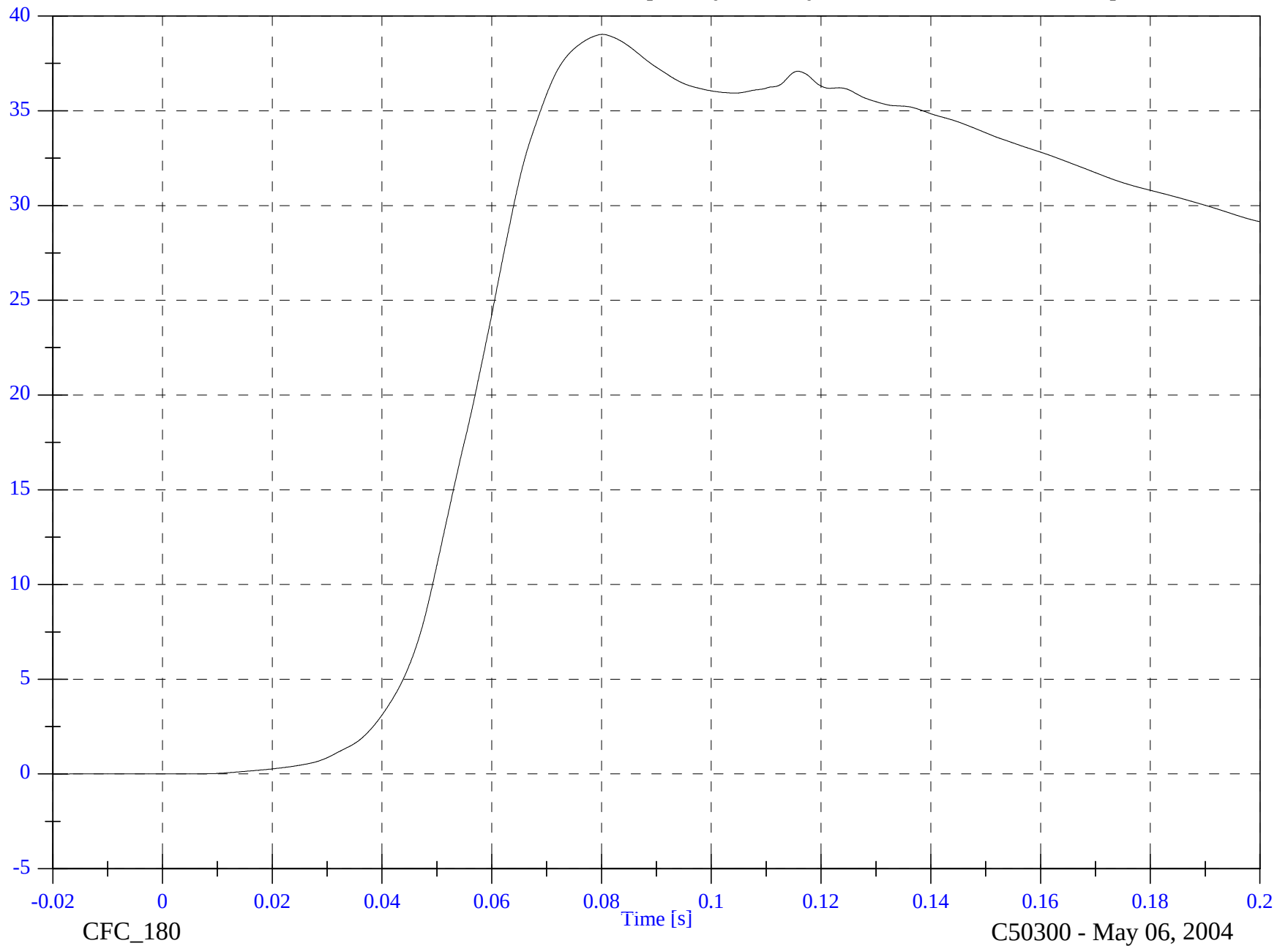


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Lower Spine Ry Velocity

Max: 39.0 [kph] at 0.080 [s]

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



B-130

8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

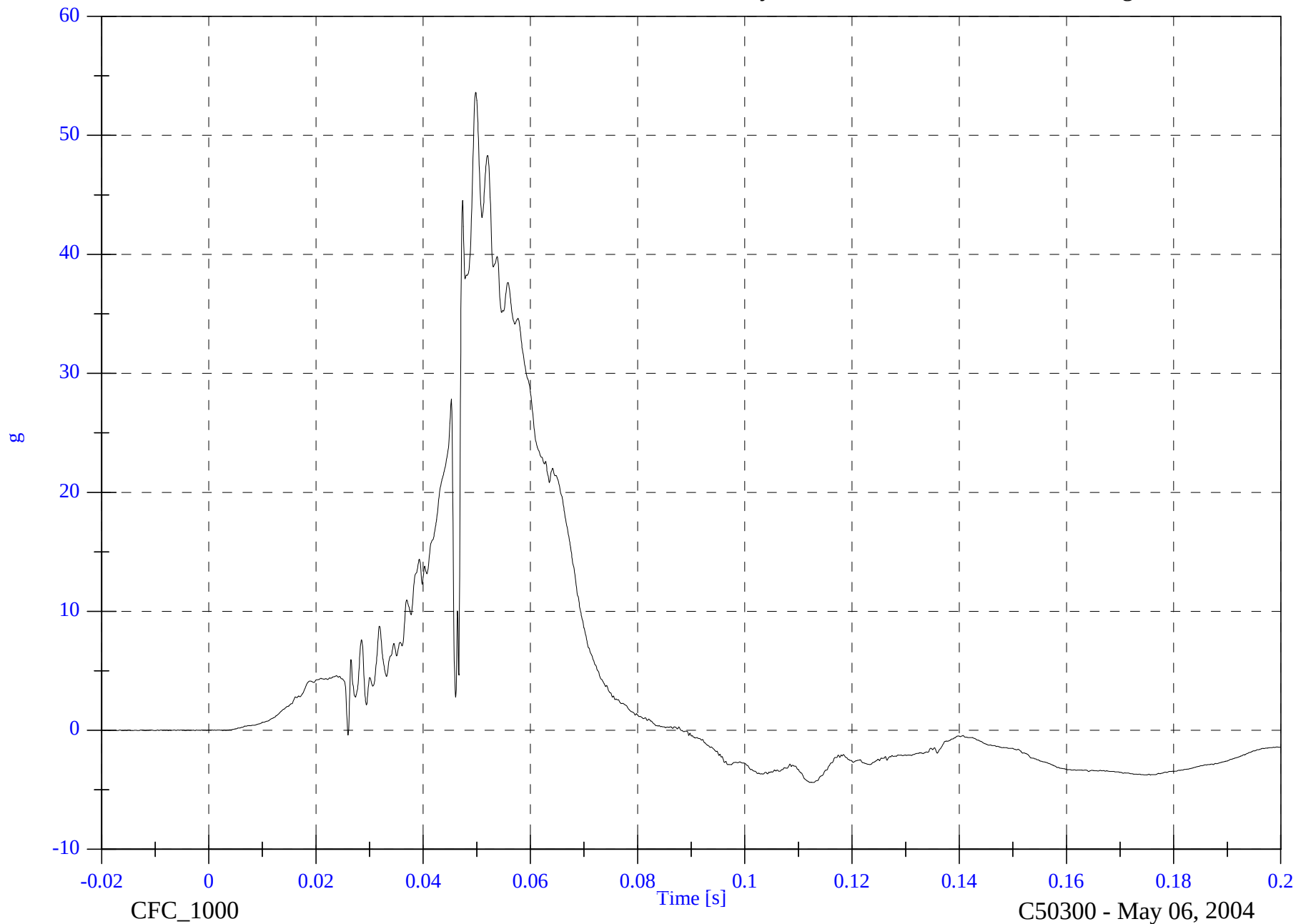
V2P4 Pelvic Ry

Max: 53.6 [g] at 0.050 [s]

Min: -4.4 [g] at 0.113 [s]

B-131

8675-F214-19

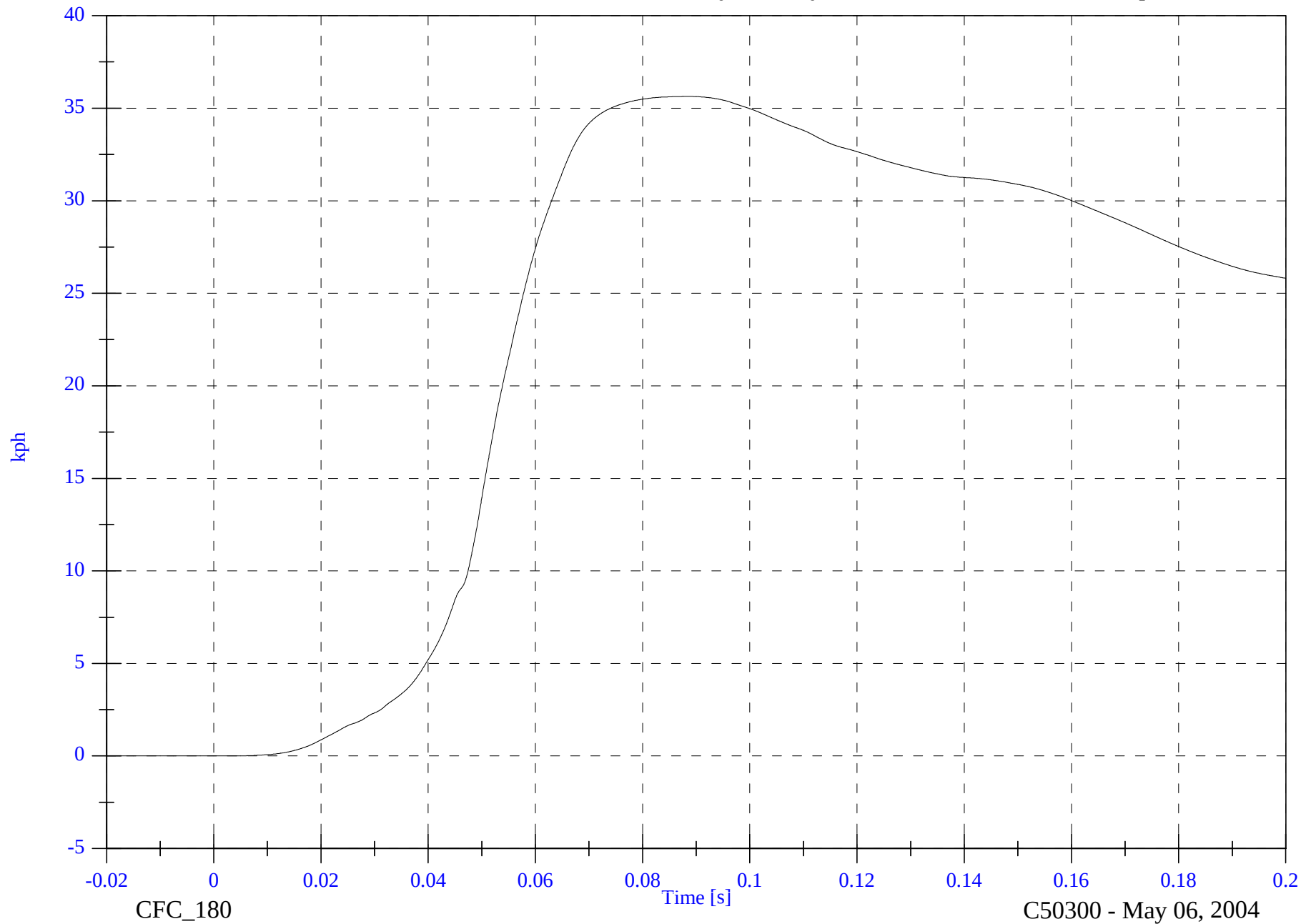


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Pelvic Ry Velocity

Max: 35.6 [kph] at 0.088 [s]

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



B-132

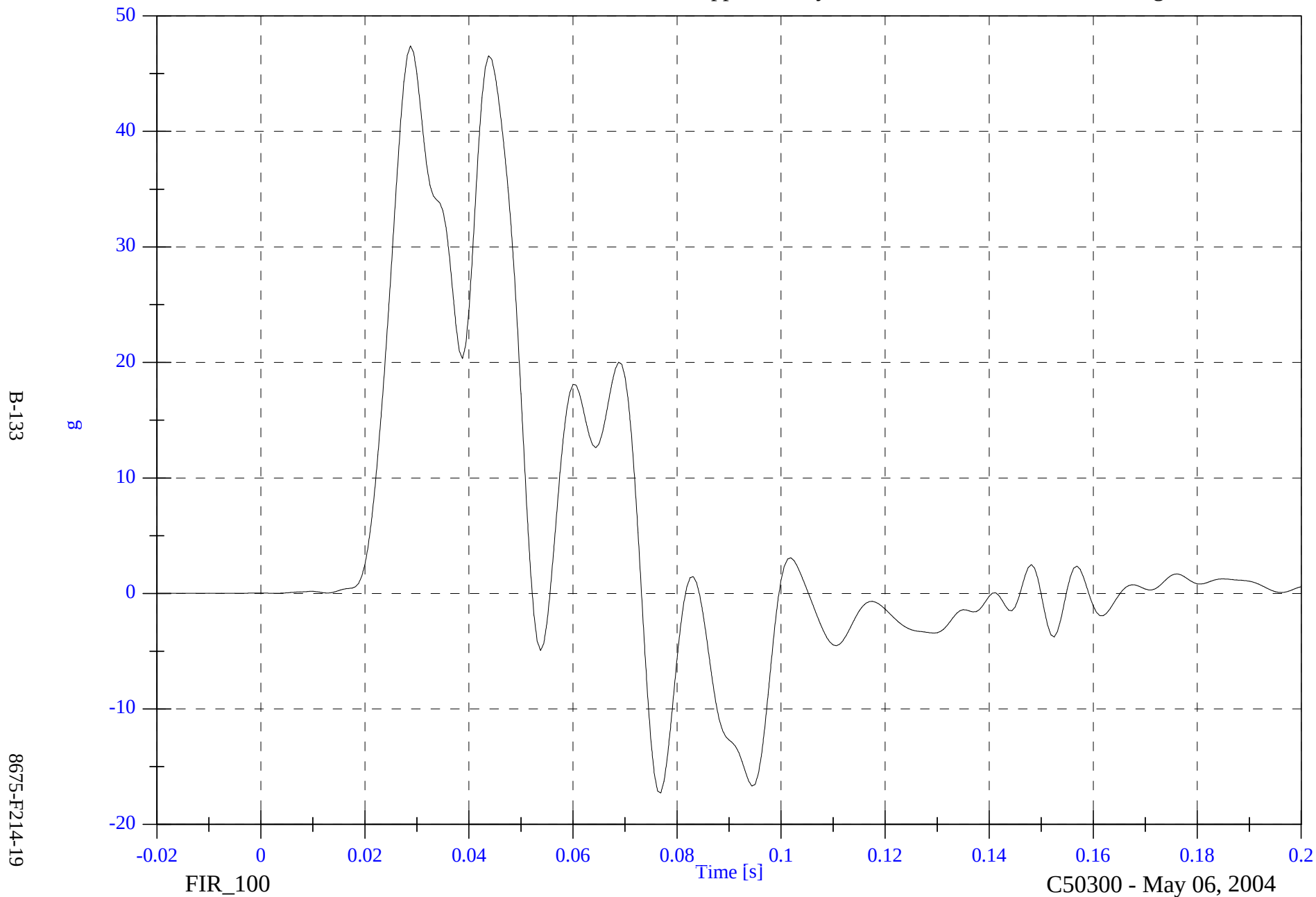
8675-F214-19

2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P1 Upper Rib Ry

Max: 47.4 [g] at 0.029 [s]

Min: -17.3 [g] at 0.077 [s]



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

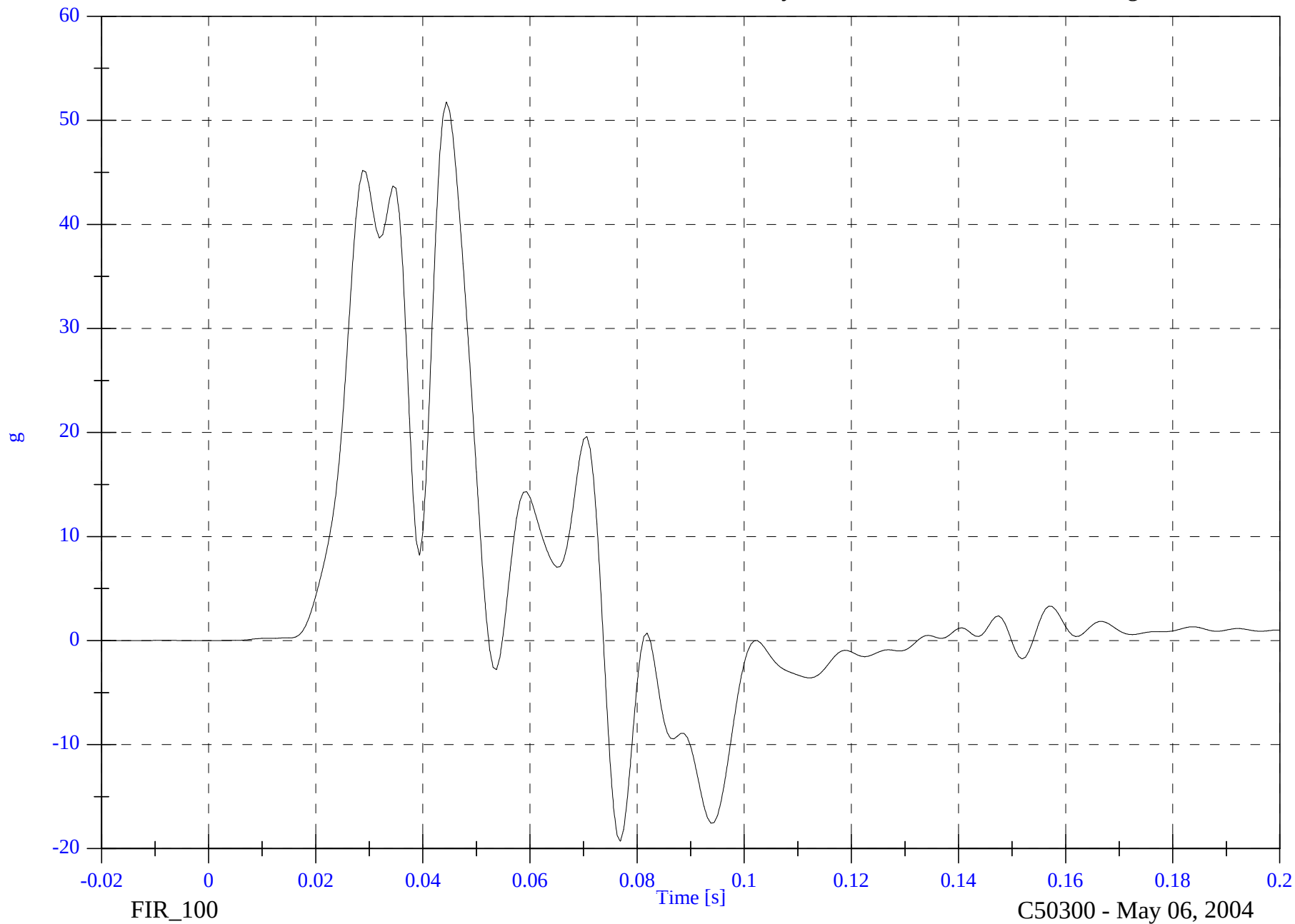
V2P1 Lower Rib Ry

Max: 51.8 [g] at 0.044 [s]

Min: -19.3 [g] at 0.077 [s]

B-134

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

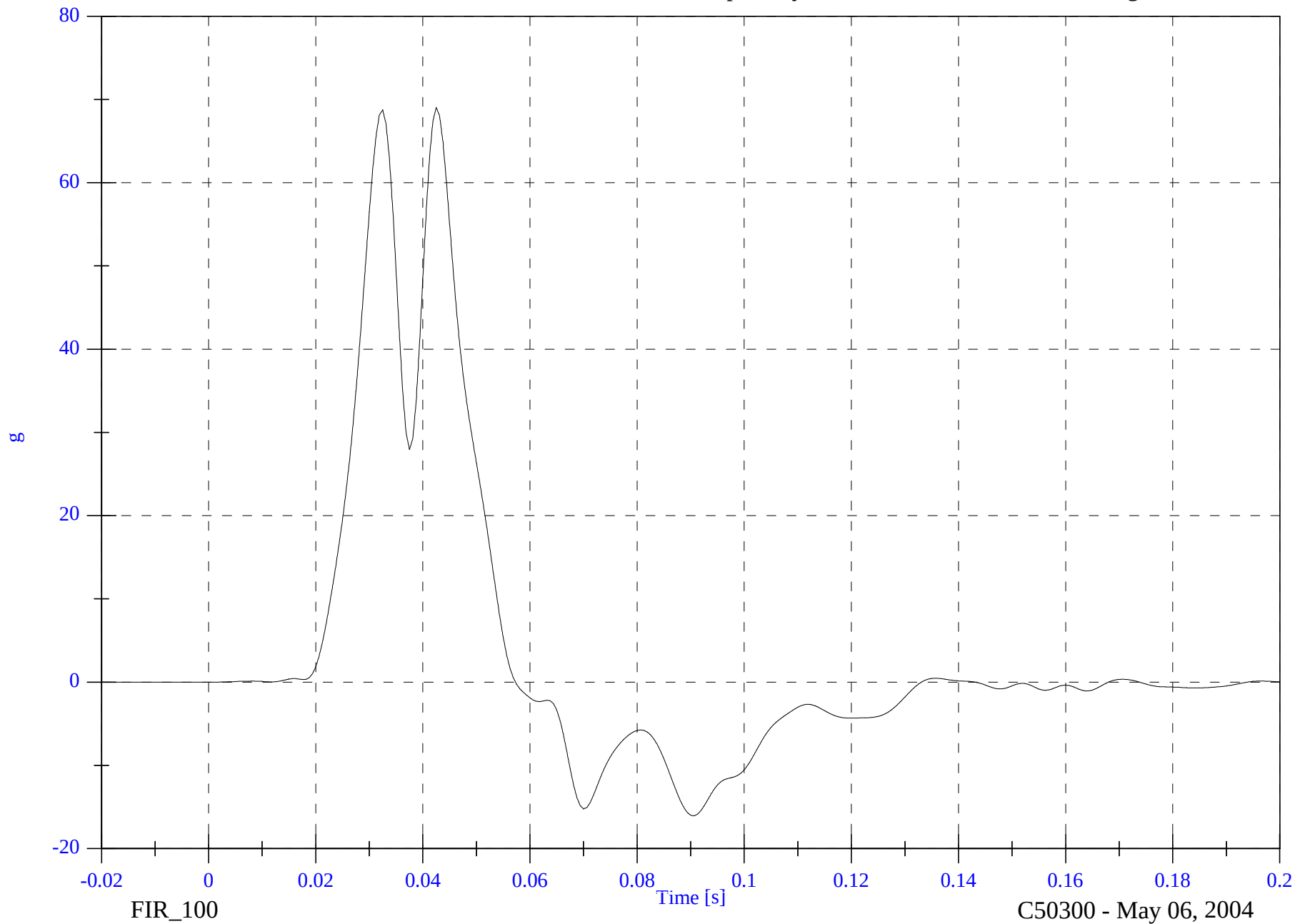
V2P1 Lower Spine Ry

Max: 69.0 [g] at 0.043 [s]

Min: -16.1 [g] at 0.091 [s]

B-135

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

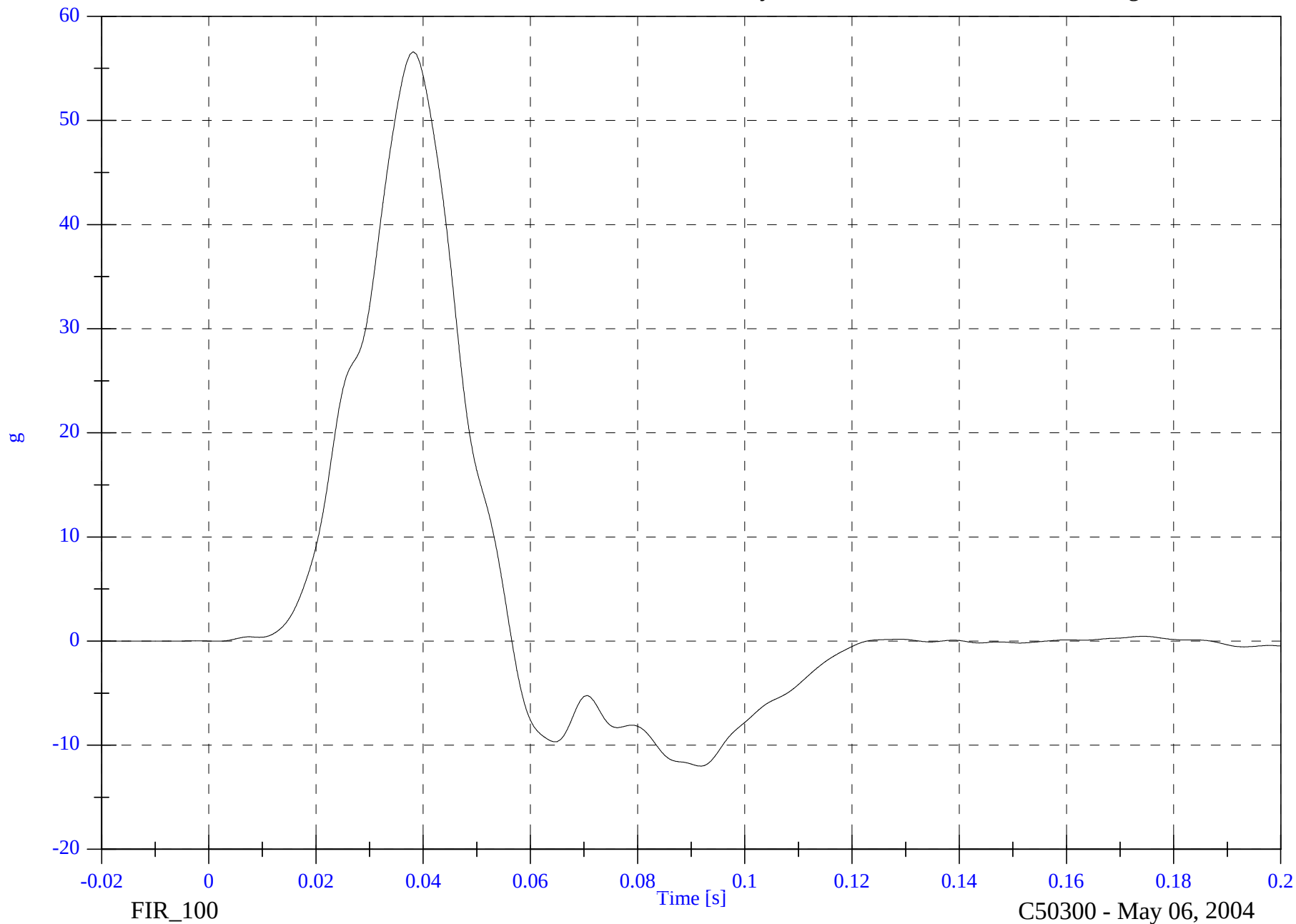
V2P1 Pelvic Ry

Max: 56.6 [g] at 0.038 [s]

Min: -12.0 [g] at 0.092 [s]

B-136

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

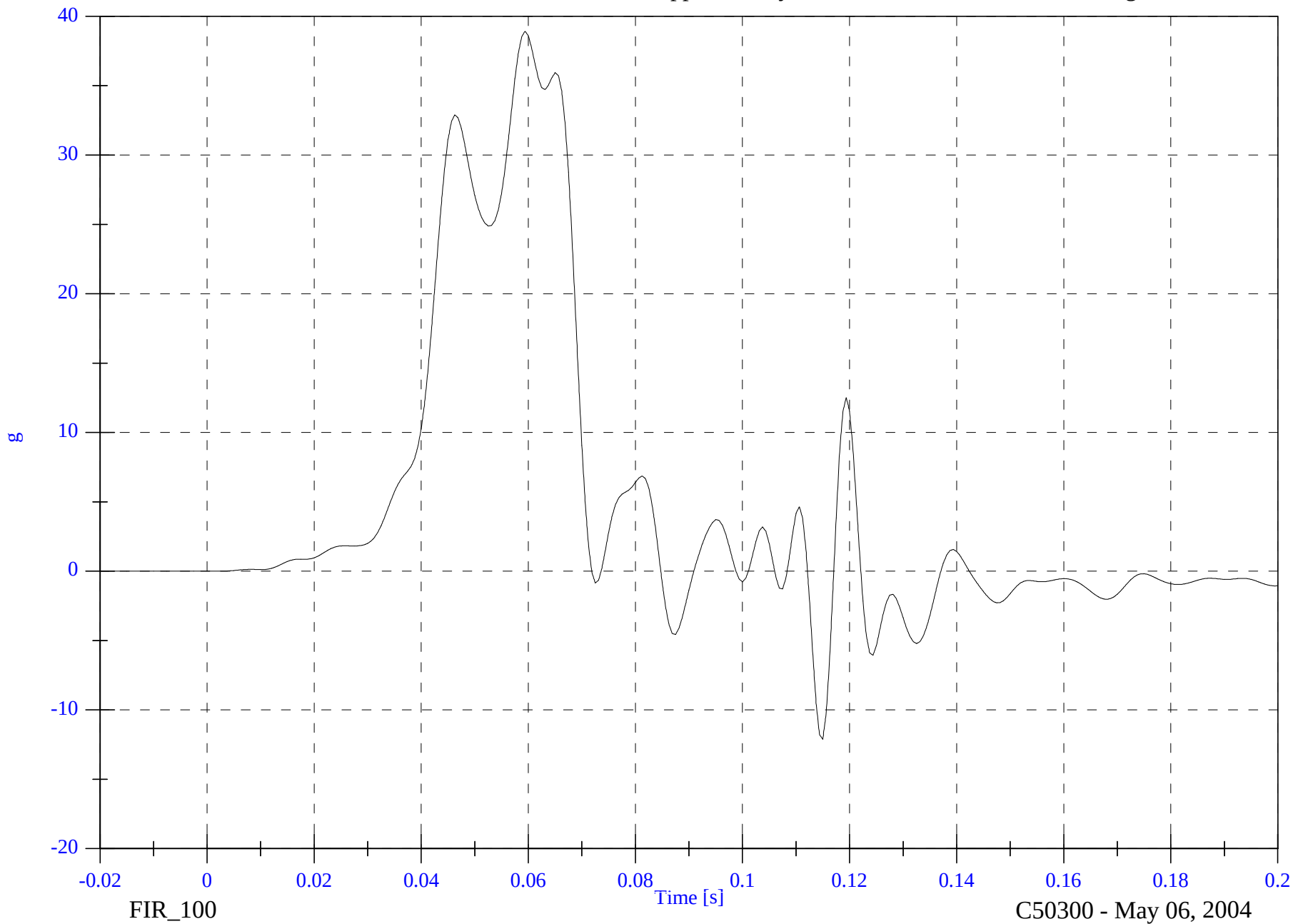
V2P4 Upper Rib Ry

Max: 38.9 [g] at 0.059 [s]

Min: -12.1 [g] at 0.115 [s]

B-137

8675-F214-19

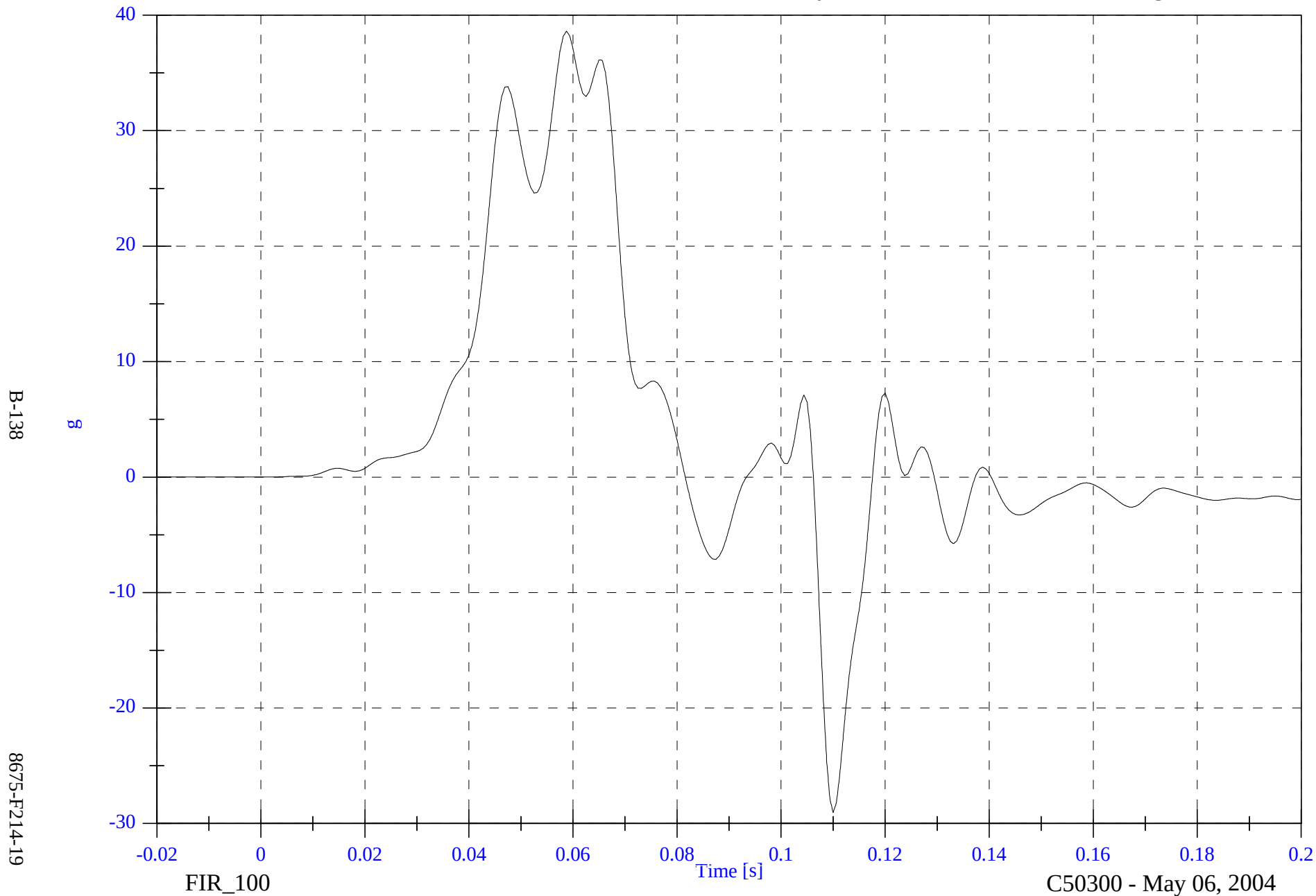


2004 FMVSS 214D Test 9 - 2005 Chrysler 300

V2P4 Lower Rib Ry

Max: 38.6 [g] at 0.059 [s]

Min: -29.1 [g] at 0.110 [s]



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

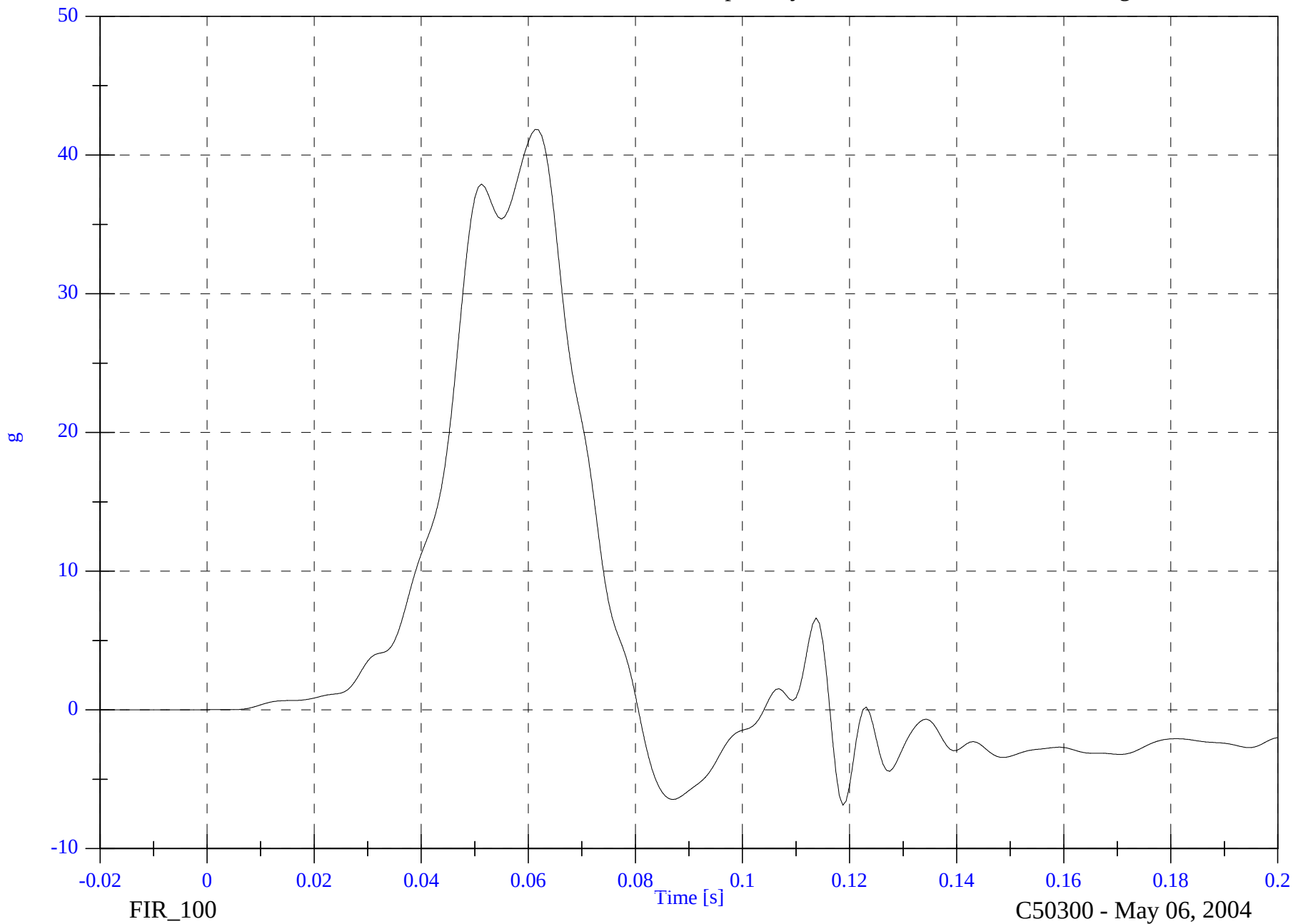
V2P4 Lower Spine Ry

Max: 41.8 [g] at 0.061 [s]

Min: -6.9 [g] at 0.119 [s]

B-139

8675-F214-19



2004 FMVSS 214D Test 9 - 2005 Chrysler 300

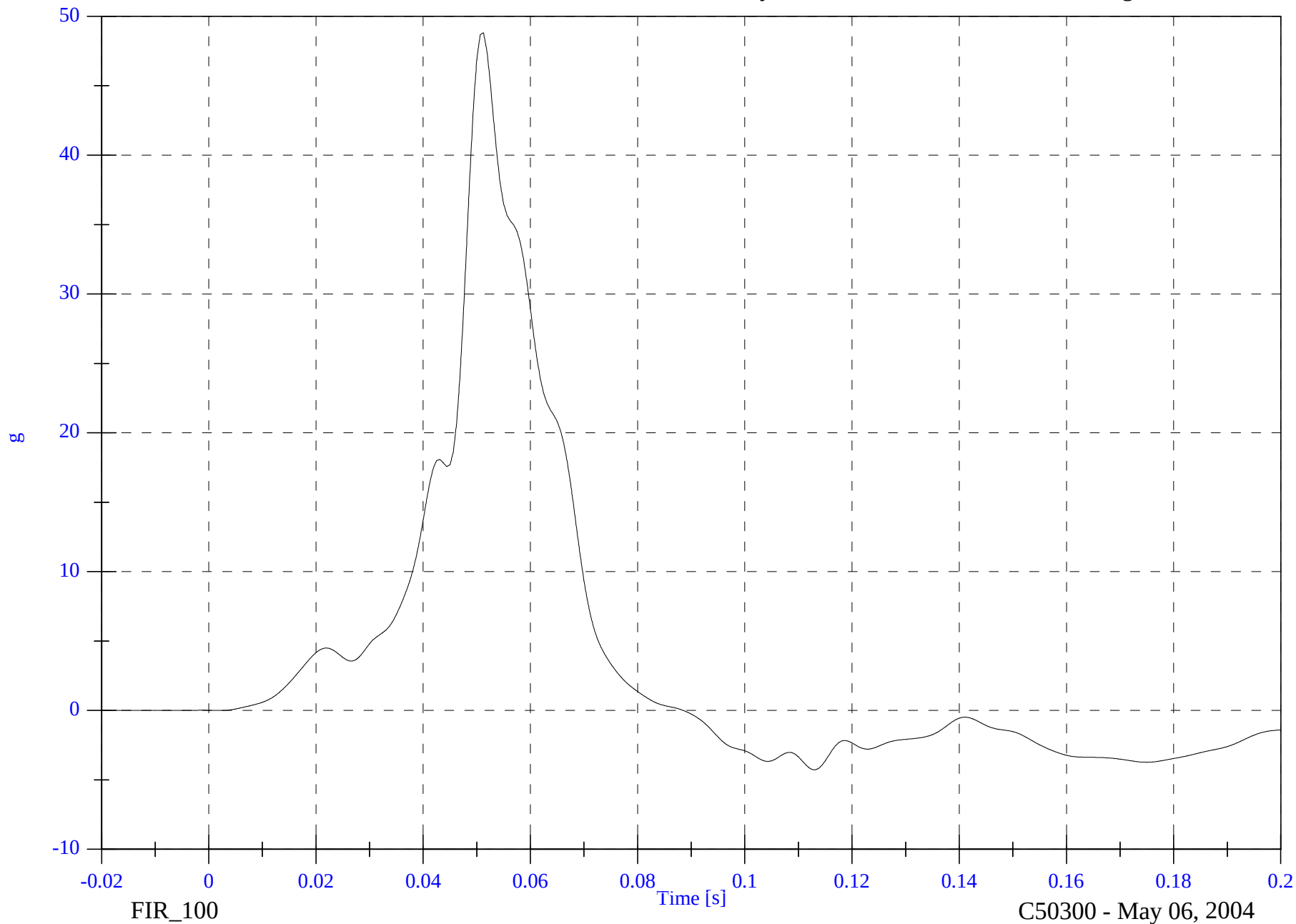
V2P4 Pelvic Ry

Max: 48.8 [g] at 0.051 [s]

Min: -4.3 [g] at 0.113 [s]

B-140

8675-F214-19



APPENDIX C

SID HYBRID III CONFIGURATION AND PERFORMANCE VERIFICATION DATA

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

Date: April 23, 2004, April 5, 2004; May 12, 2004

Sequential Test Number: 1,3;2,4

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	SID H3 269 NO.:		SID H3 270 NO.:	
		PRE TEST	POST TEST	PRE TEST	POST TEST
SH- Seated Height (mm)	889 - 909	904	904	902	902
RH- Rib Height (mm)	501 - 521	503	503	505	505
HP- Hip Pivot Height (mm)	99 ref.	99	99	99	99
RD- Rib from Back Line (mm)	229 - 241	234	234	234	234
KV- Knee Pivot from Back Line (mm)	511 - 526	518	518	516	516
SW- Knee Pivot to Floor (mm)	490 - 505	495	495	495	495
HW- Hip Width (mm)	356 - 391	371	371	376	376
THORAX IMPACTS					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.00	29.00	37.00	29.00
PROBE SPEED (m/s)	4.27 - 4.33	4.31	4.32	4.32	4.27
UPPER RIB (g's)	37 - 46	38.60	38.70	41.84	38.18
LOWER RIB (g's)	37 - 46	39.43	39.67	40.57	38.40
LOWER SPINE (g's)	15 - 22	20.12	19.49	21.86	19.50
PELVIS IMPACT					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	35.00	29.00	37.00	37.00
PROBE SPEED (m/s)	4.27 - 4.33	4.31	4.32	4.32	4.31
PELVIS (g's)	40 - 60	59.41	51.00	52.55	42.65

REMARKS: None

CALIBRATION TEST RESULTS

PRE-TEST

SID H3 NO.: 269

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 1
Date: April 23, 2004 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.: 269 Sequential Test Number: 1
Date: April 23, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 – 909	904
RH- Rib Height (mm)	502 – 520	503
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 – 241	234
KH- Knee Pivot from Back Line (mm)	511 – 526	518
KV- Knee Pivot to Floor (mm)	490 – 505	495
HW- Hip Width (mm)	356 - 391	371

REMARKS: None

Shock Impact - Low (3.05 m/s)

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

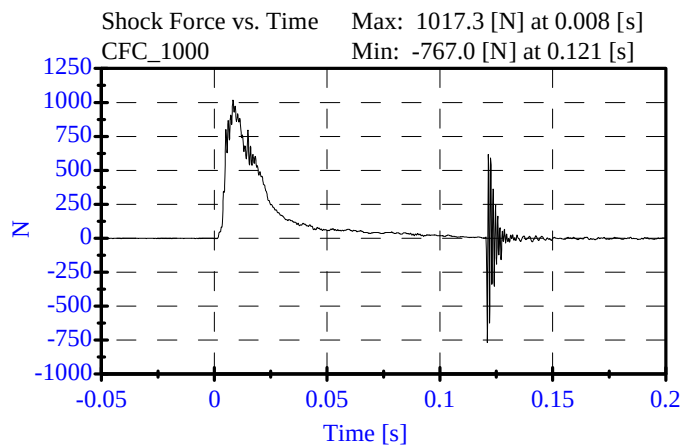
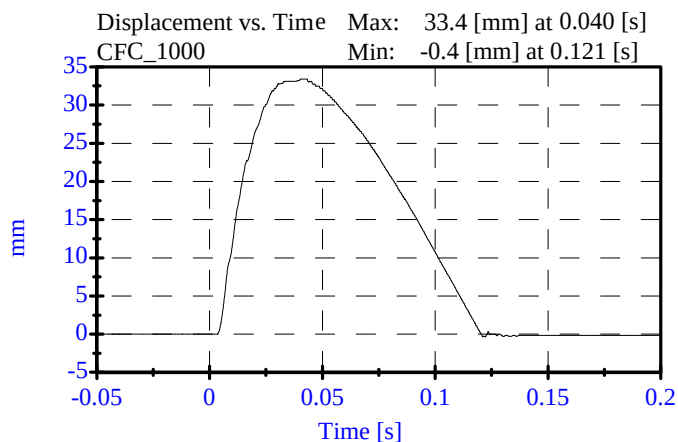
ATD Serial No: 269

Date: April 22, 2004

Sequential Test Number: 1 File: 269SL 04-22-04

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	30.00-35.00 mm	33.40 mm	Passed
Maximum Force:	836.00-1125.00 N	1017.34 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	269		
Damper Setting:	5		



Shock Impact - Med (4.27 m/s)

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

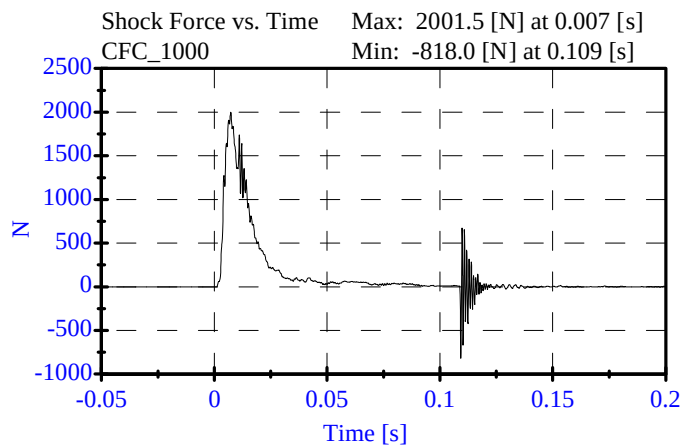
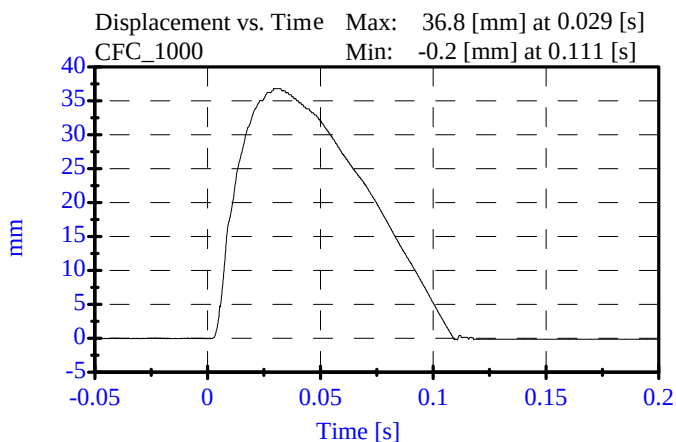
ATD Serial No: 269

Date: April 22, 2004

Sequential Test Number: 1 File: 269SM 04-22-04

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	32.00-37.00 mm	36.83 mm	Passed
Maximum Force:	1730.00-2099.00 N	2001.46 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	269		
Damper Setting:	5		



Shock Impact - High (6.10 m/s)

PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

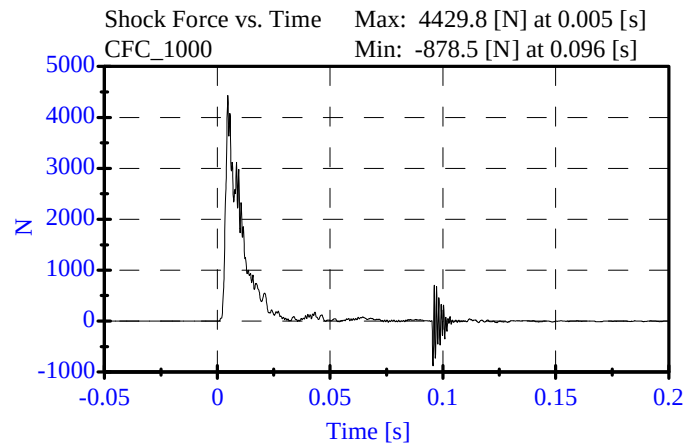
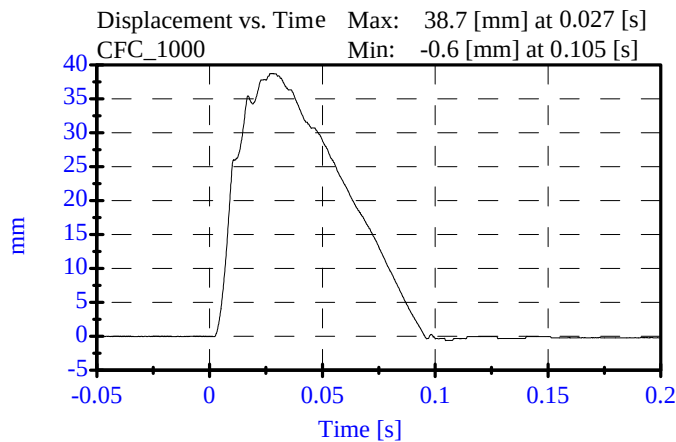
ATD Serial No: 269

Date: April 22, 2004

Sequential Test Number: 1 File: 269SH1 04-22-04

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Displacement:	33.00-40.00 mm	38.73 mm	Passed
Maximum Force:	3741.00-4448.00 N	4429.82 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	269		
Damper Setting:	5		

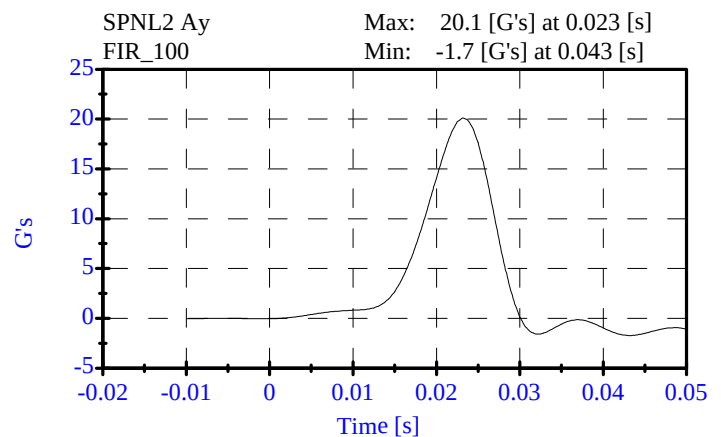
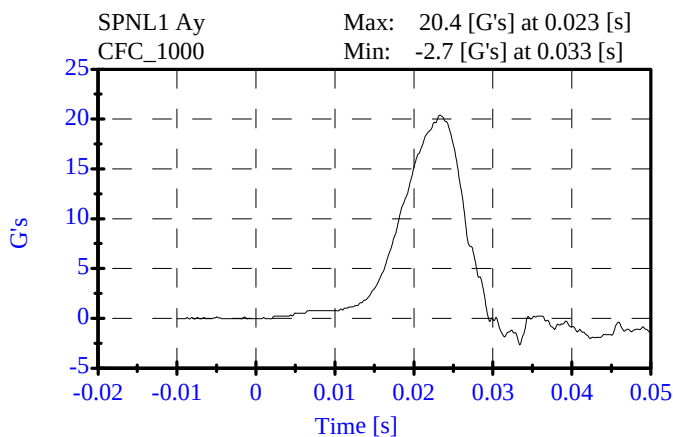
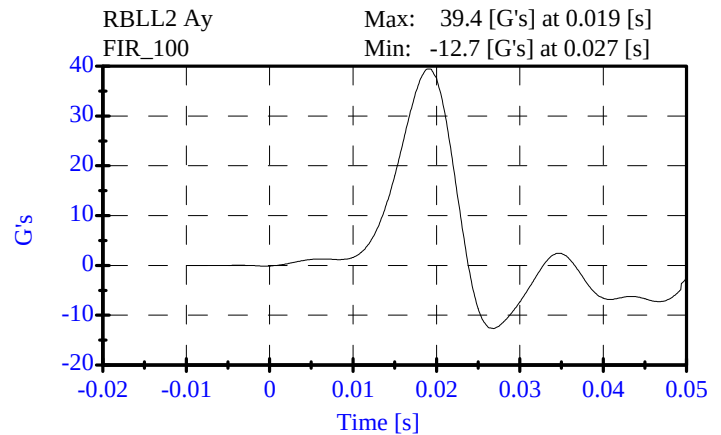
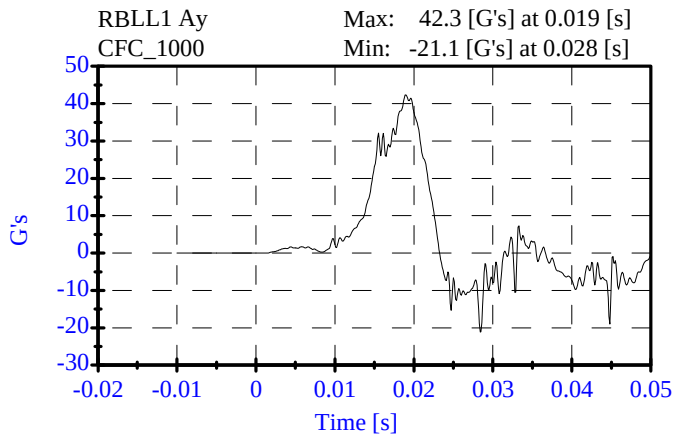
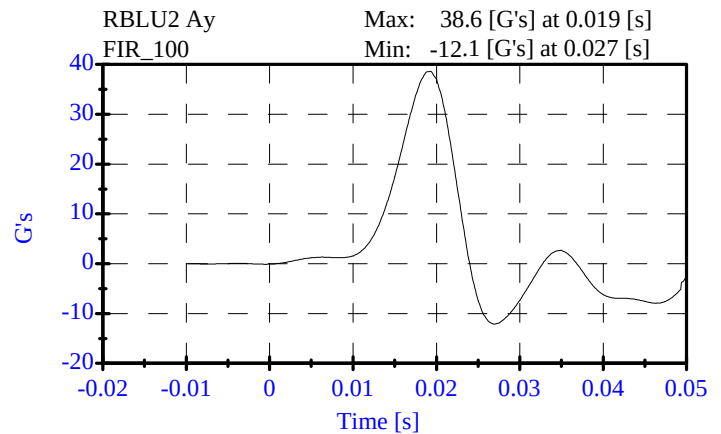
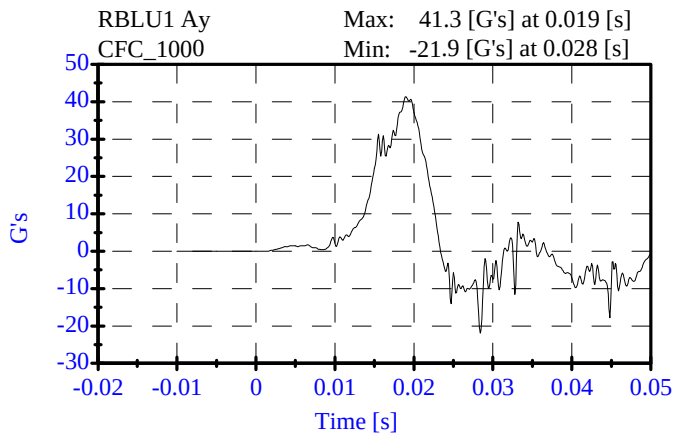


Thorax Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: April 23, 2004

Sequential Test Number: 1 File: 269T 04-23-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.31 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	38.60 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	39.43 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	20.12 G's	Passed

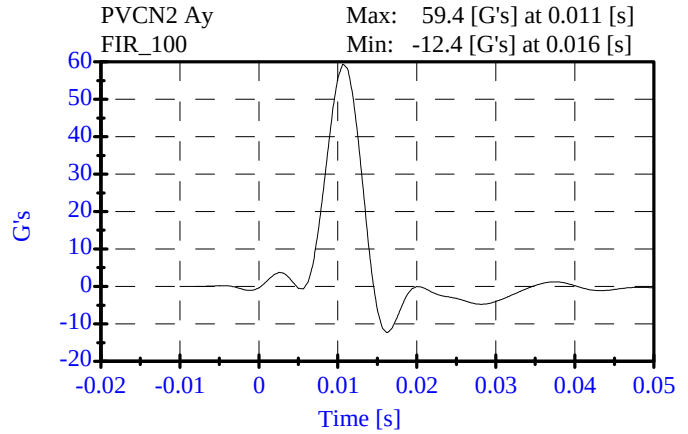
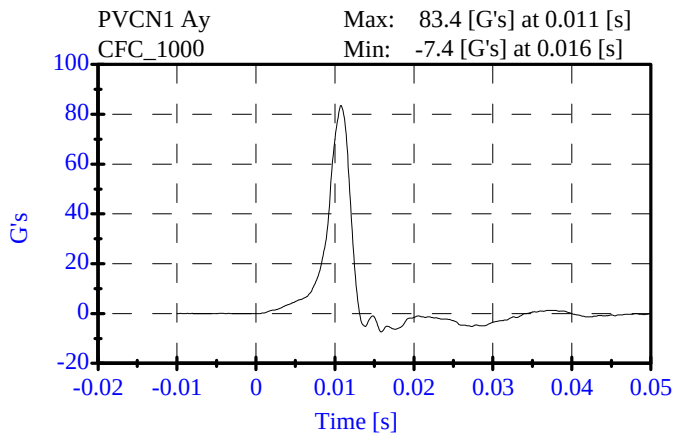


Pelvic Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: April 23, 2004

Sequential Test Number: 1 File: 269P 04-23-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.31 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	59.41 G's	Passed

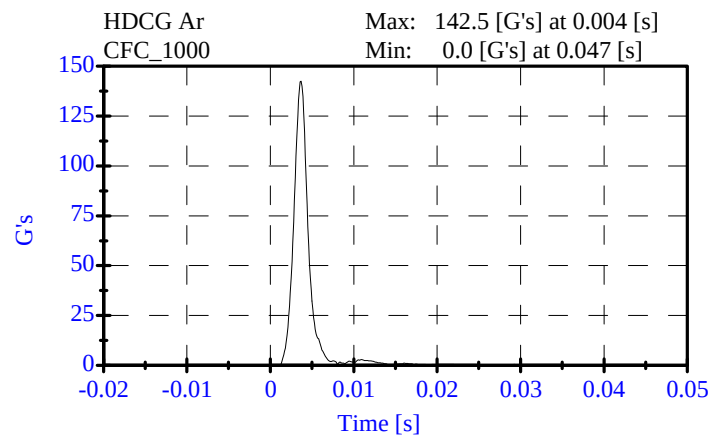
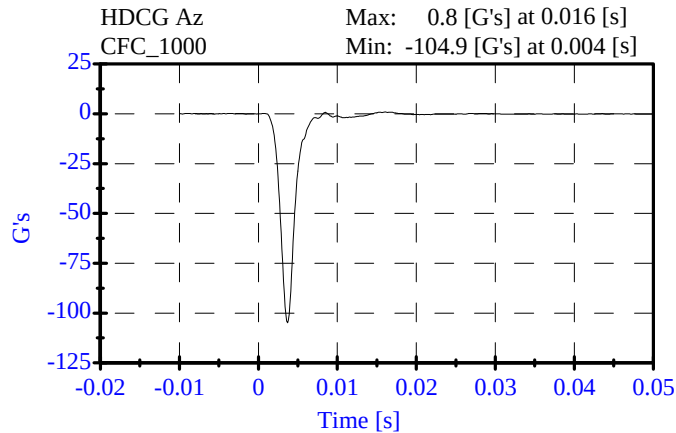
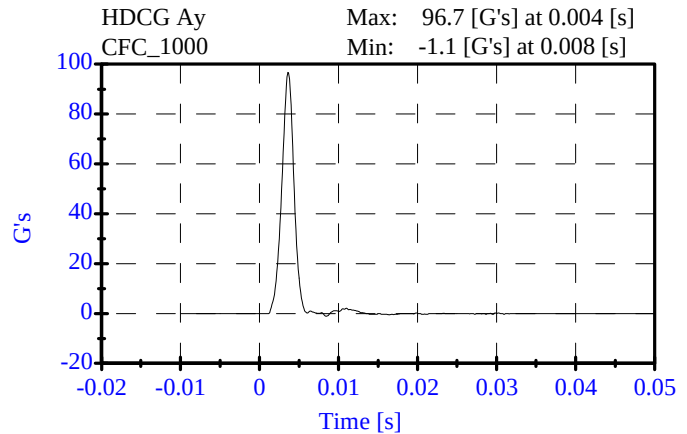
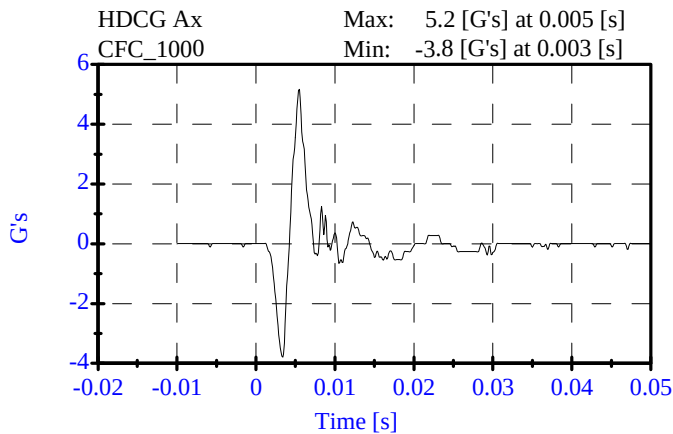


Head Drop **Pre-Test** **CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 269
Date: April 22, 2004

Sequential Test Number: 1 File: 269H1 04-22-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	142.46 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	5.17 Gs	Passed
Curve PerCent NonModal:	< 15%	2.09 %	Passed



Neck Test**Pre-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 269

Date: April 23, 2004

Sequential Test Number: 1 File: 269N 04-23-04

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	6.98 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.16 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.40 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.20 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.00 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	64.0-78.0 Deg	75.58 Deg	Passed
Rotation Angle Decay:	50.0-70.0 ms	60.20 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	88.00-108.00 N-m	89.21 N-m	Passed
Occipital Moment Decay:	40.0-60.0 ms	57.20 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	0.0-20.0 ms	10.50 ms	Passed

Neck Test Pre-Test CONFIGURED FOR LEFT SIDE IMPACT

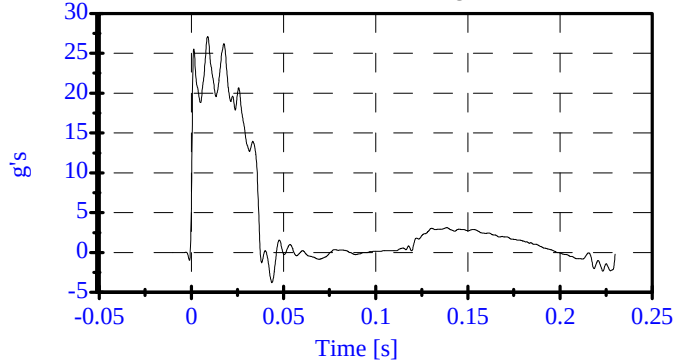
ATD Serial No: 269

Date: April 23, 2004

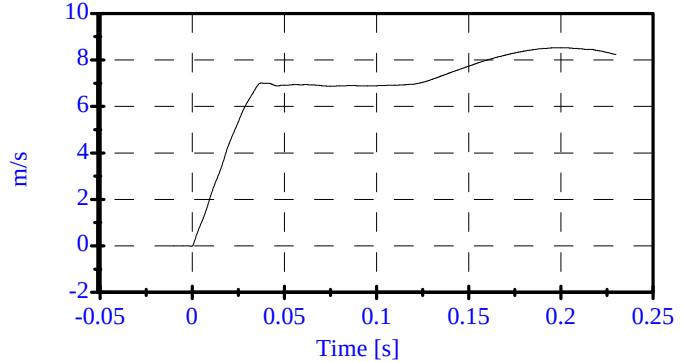
Sequential Test Number: 1 File: 269N 04-23-04

Laboratory Technician: B. Swiecicki

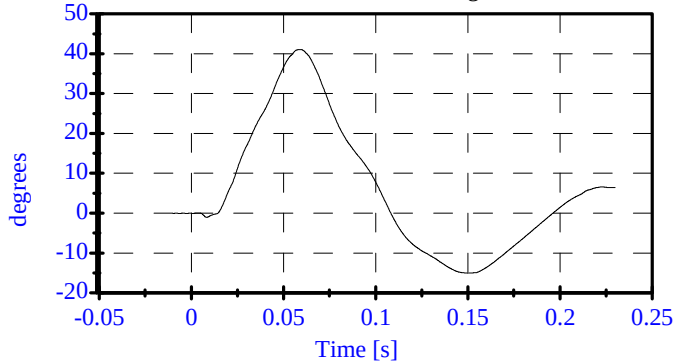
Pend Ax
CFC_180
Max: 27.1 [g's] at 0.009 [s]
Min: -3.8 [g's] at 0.044 [s]



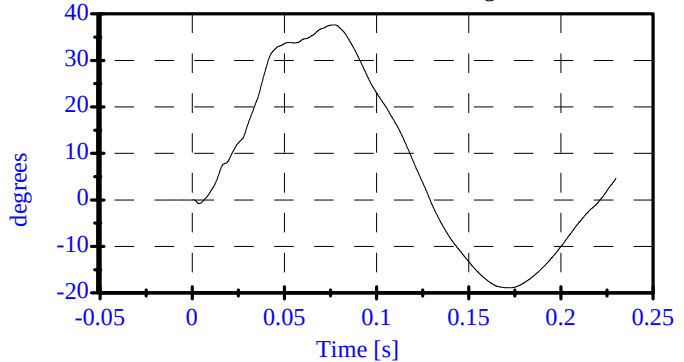
Pend Vx
CFC_180
Max: 8.5 [m/s] at 0.199 [s]
Min: -0.0 [m/s] at -0.001 [s]



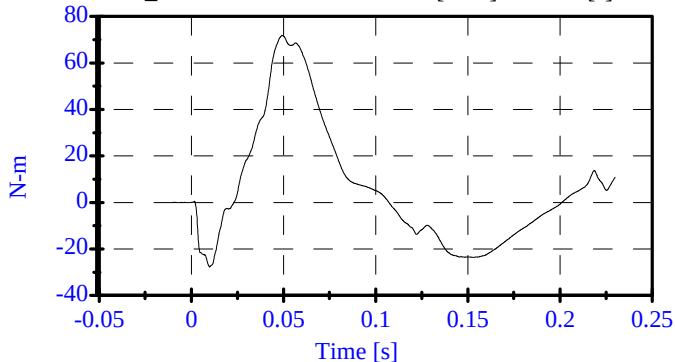
Head Rot
CFC_180
Max: 41.1 [degrees] at 0.059 [s]
Min: -15.0 [degrees] at 0.149 [s]



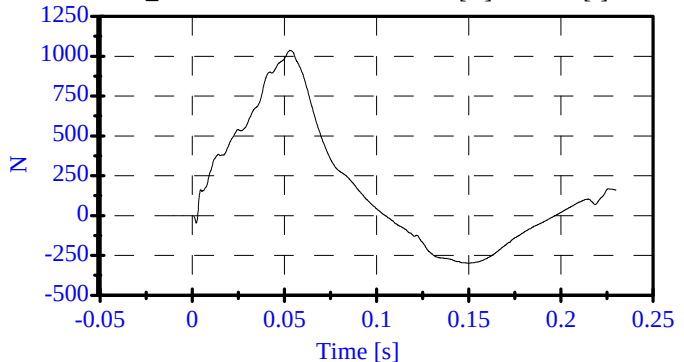
Arm Rot
CFC_180
Max: 37.6 [degrees] at 0.077 [s]
Min: -18.9 [degrees] at 0.170 [s]



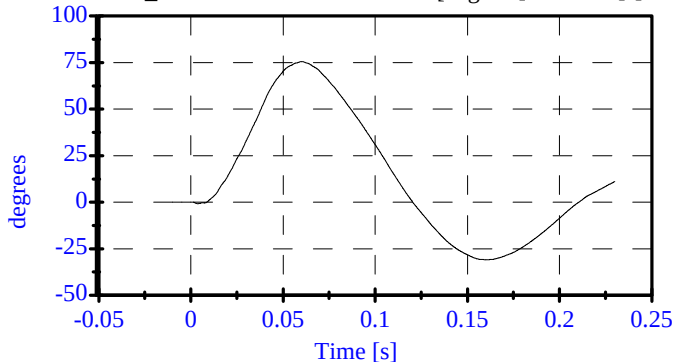
Neck Mx
CFC_600
Max: 71.8 [N-m] at 0.050 [s]
Min: -27.7 [N-m] at 0.010 [s]



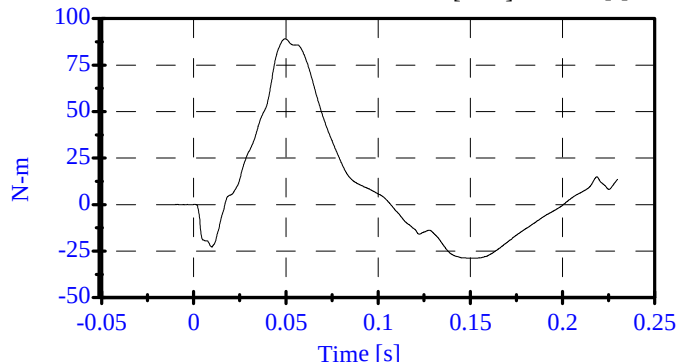
Neck Fy
CFC_1000
Max: 1036.7 [N] at 0.053 [s]
Min: -299.3 [N] at 0.150 [s]



Tot Rot
CFC_180
Max: 75.6 [degrees] at 0.060 [s]
Min: -30.9 [degrees] at 0.160 [s]



Mocy
Max: 89.2 [N-m] at 0.050 [s]
Min: -28.8 [N-m] at 0.148 [s]



ABDOMINAL COMPRESSION TEST

PRE-TEST

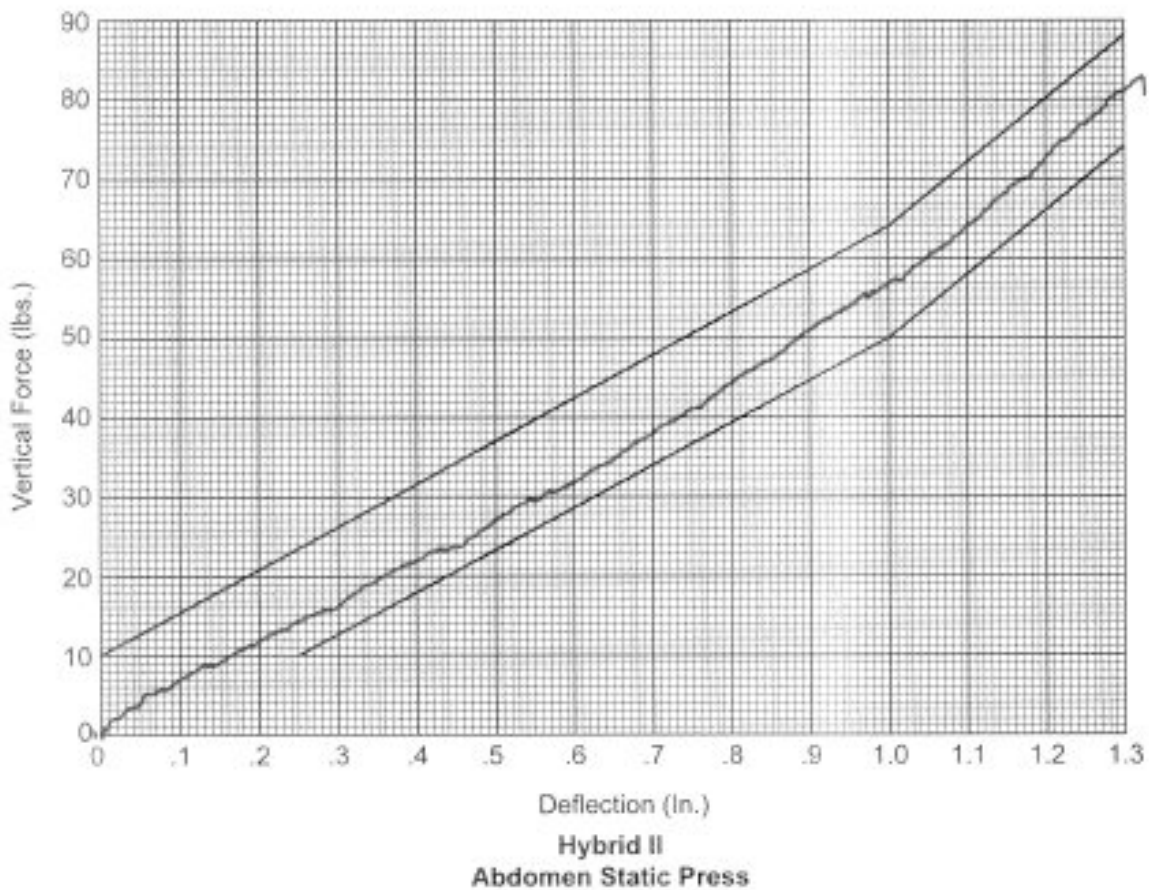
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 1
Date: April 23, 2004 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	124.6
FORCE @ 19 mm (N)	163 - 221	182.4
FORCE @ 25 mm (N)	222 - 280	253.5
FORCE @ 33 mm (N)	325 - 391	360.3

REMARKS: None



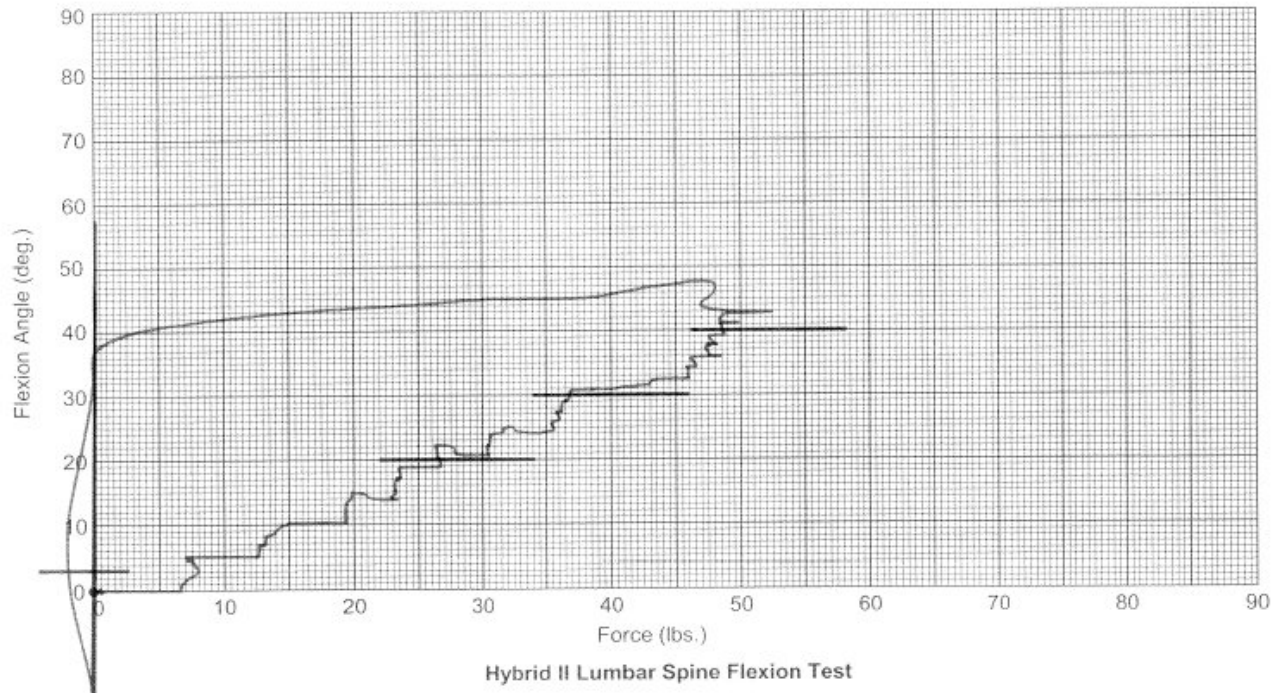
LUMBAR FLEXION TEST
PRE-TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: <u>269</u>	Sequential Test Number: <u>1</u>	
Date: <u>April 23, 2004</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
FORCE @ 0° (N)	0 - 26.7	0.00
FORCE @ 20° (N)	97.8 - 151.2	120.1
FORCE @ 30° (N)	151.2 - 204.6	164.6
FORCE @ 40° (N)	204.6 - 258	215.7
RETURN ANGLE	12° max.	3°

REMARKS: None



PRE-TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 1
Date: April 23, 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

PRE-TEST

SID H3 NO.: 270

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
PRE-TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 3
Date: April 5, 2004 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.: 270 Sequential Test Number: 3
Date: April 5, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	505
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
KH- Knee Pivot from Back Line (mm)	511 - 526	516
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	376

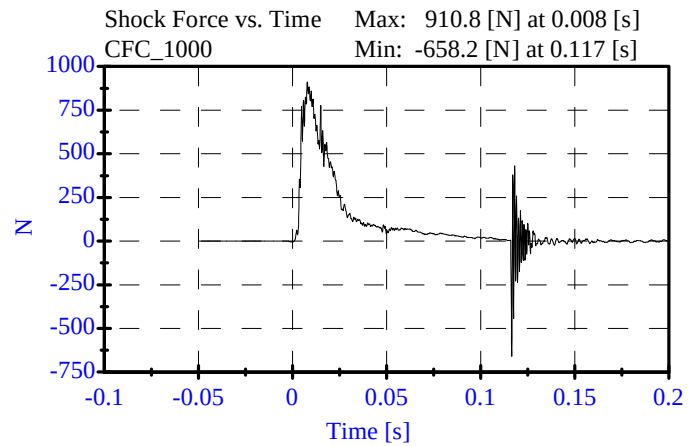
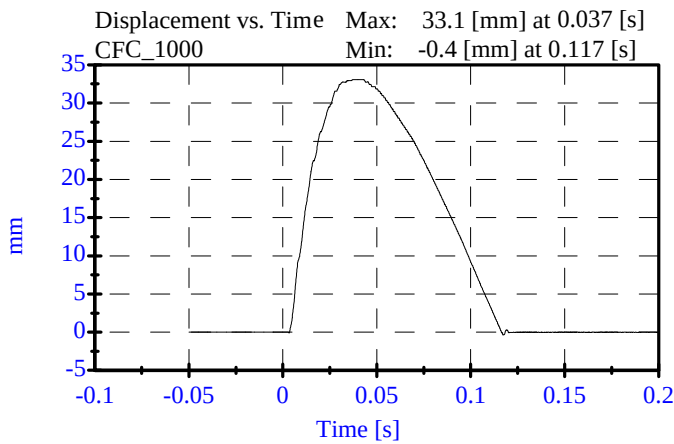
REMARKS: None

Shock Impact (3.05 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: March 18, 2004

Sequential Test Number: 1 File: 270SL 03-18-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Displacement:	30.00-35.00 mm	33.07 mm	Passed
Maximum Force:	836.00-1125.00 N	910.80 N	Passed
Impact Test Velocity:	3.05 m/s		
Damper Identification:	270		
Damper Setting:	5		

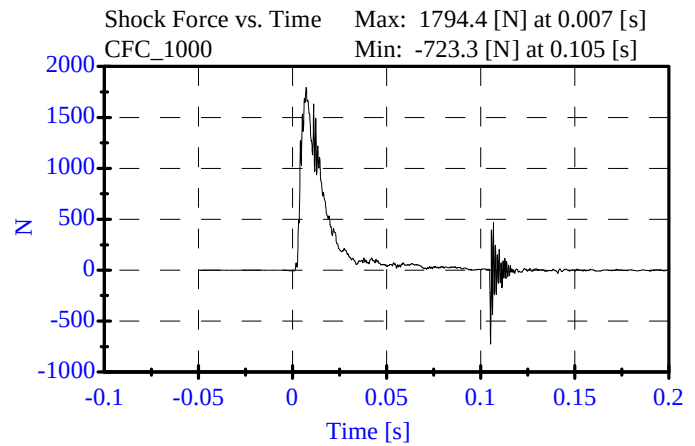
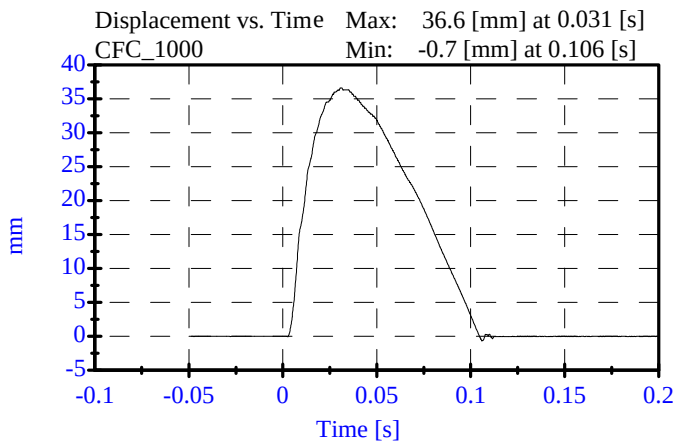


Shock Impact (4.27 m/s)
PRE TEST
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: March 18, 2004

Sequential Test Number: 1 File: 270SM 03-18-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Displacement:	32.00-37.00 mm	36.64 mm	Passed
Maximum Force:	1730.00-2099.00 N	1794.45 N	Passed
Impact Test Velocity:	4.27 m/s		
Damper Identification:	270		
Damper Setting:	5		



Shock Impact (6.10 m/s)

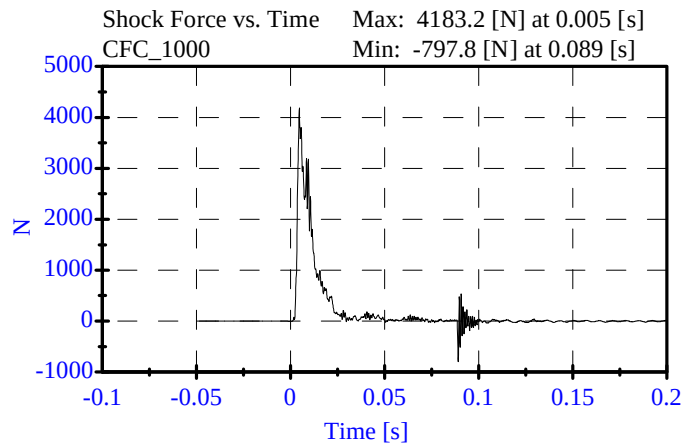
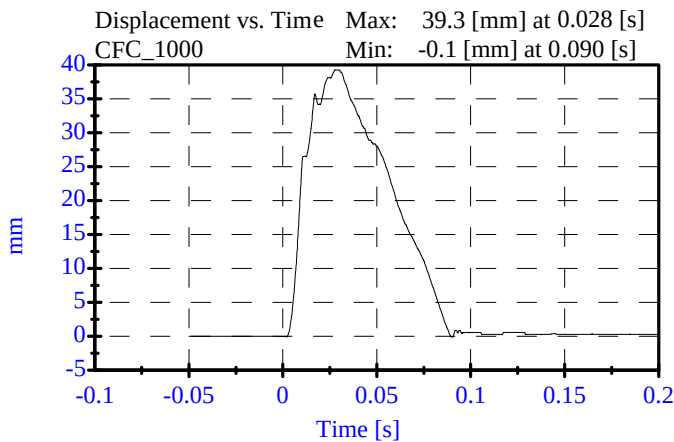
PRE TEST

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: March 18, 2004

Sequential Test Number: 1 File: 270SH 03-18-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	35.00 %	Passed
Displacement:	33.00-40.00 mm	39.29 mm	Passed
Maximum Force:	3741.00-4448.00 N	4183.25 N	Passed
Impact Test Velocity:	6.10 m/s		
Damper Identification:	270		
Damper Setting:	5		

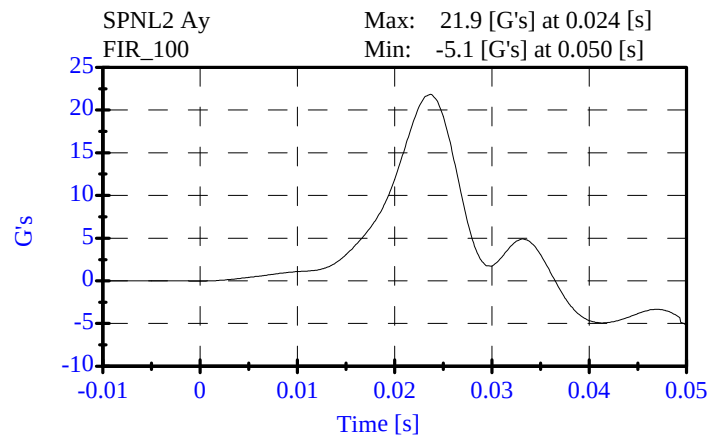
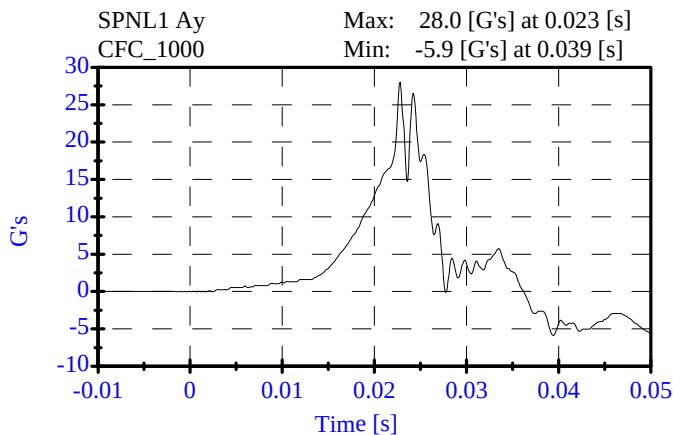
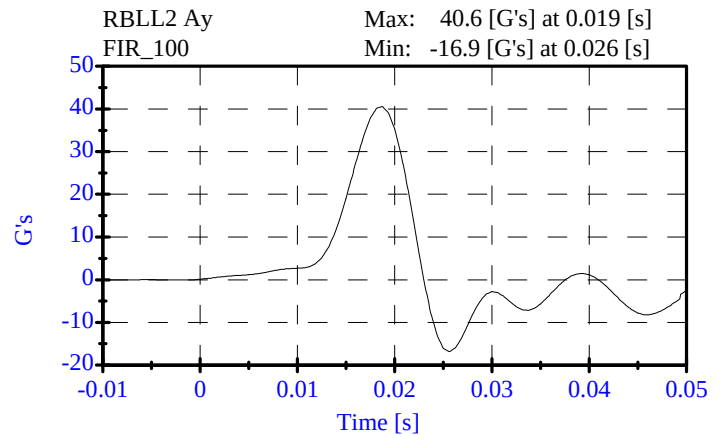
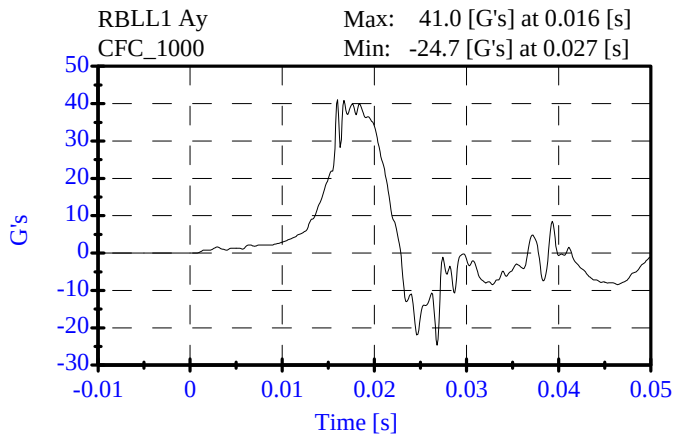
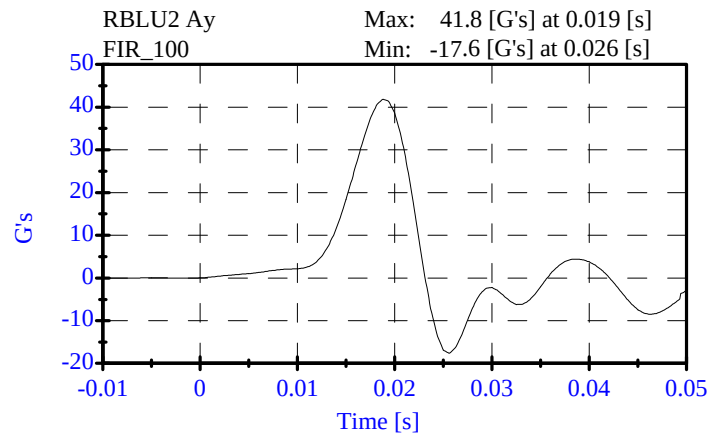
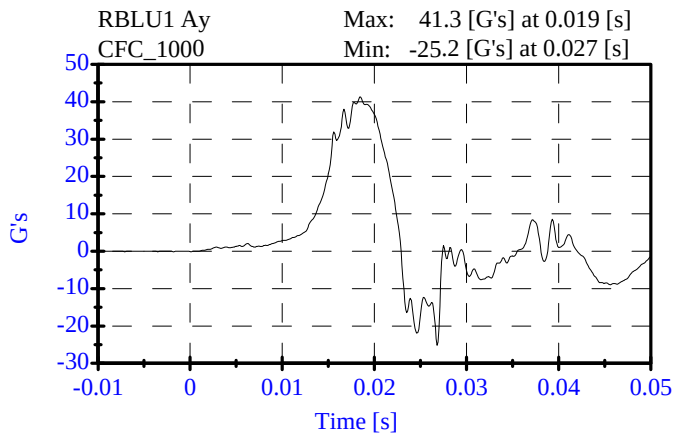


Thorax Impact
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: April 2, 2004

Sequential Test Number: 1 File: 270T 04-02-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.32 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	41.84 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	40.57 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	21.86 G's	Passed



Pelvic Impact

Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

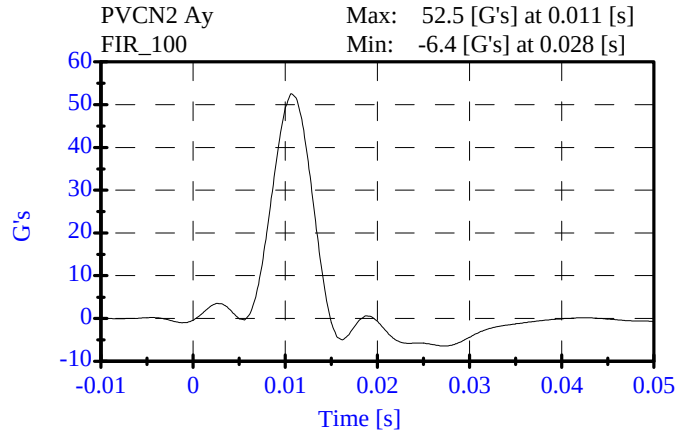
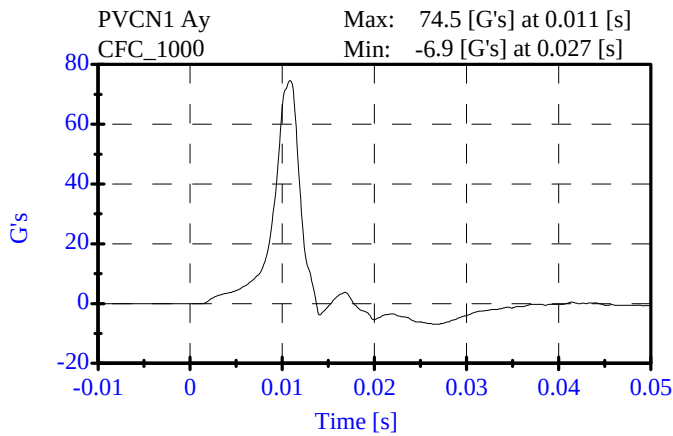
ATD Serial No: 270

Date: April 2, 2004

Sequential Test Number: 1 File: 270P 04-02-04

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.32 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	52.55 G's	Passed



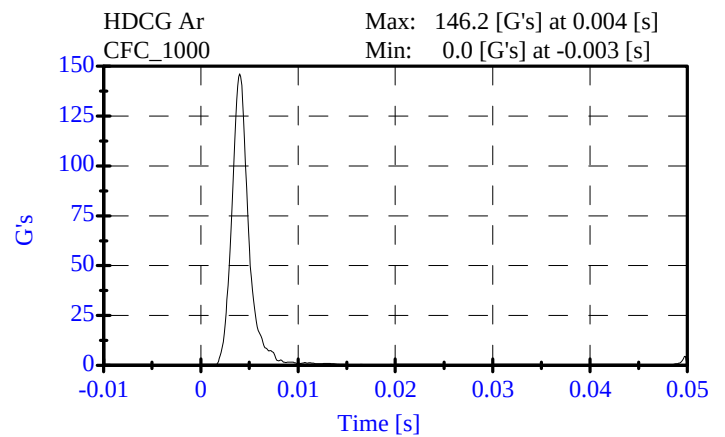
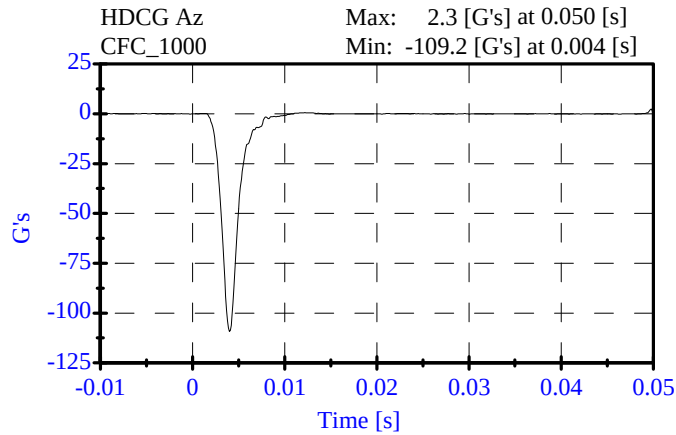
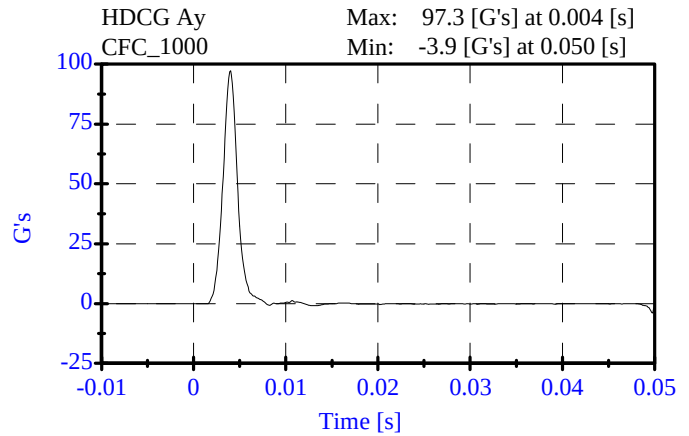
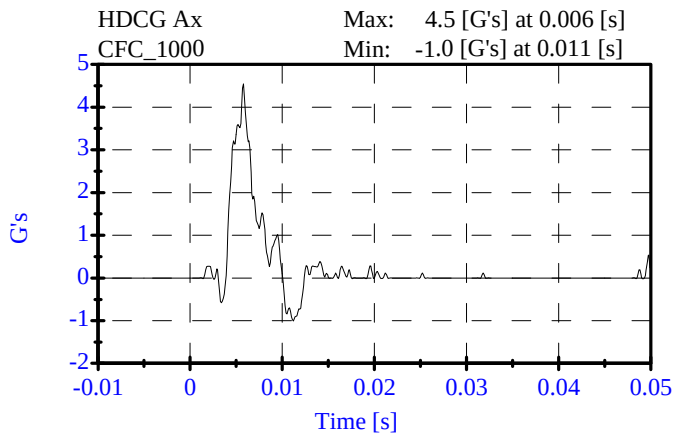
Head Drop Pre-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: April 1, 2004

Sequential Test Number: 1 File: 270H 04-01-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	146.25 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	4.54 Gs	Passed
Curve PerCent NonModal:	< 15%	5.05 %	Passed



Neck Test**Pre-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 270

Date: April 1, 2004

Sequential Test Number: 1 File: 270N 04-01-04

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	33.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.00 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.20 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.40 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.23 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.11 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	64.0-78.0 Deg	74.97 Deg	Passed
Rotation Angle Decay:	50.0-70.0 ms	59.10 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	88.00-108.00 N-m	88.69 N-m	Passed
Occipital Moment Decay:	40.0-60.0 ms	57.00 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	0.0-20.0 ms	12.80 ms	Passed

Neck Test
Pre-Test
CONFIGURED FOR LEFT SIDE IMPACT

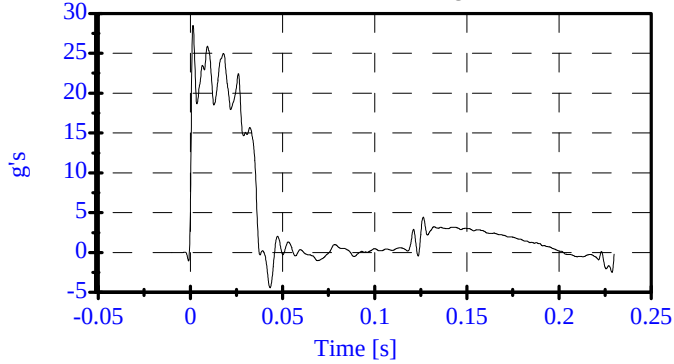
ATD Serial No: 270

Date: April 1, 2004

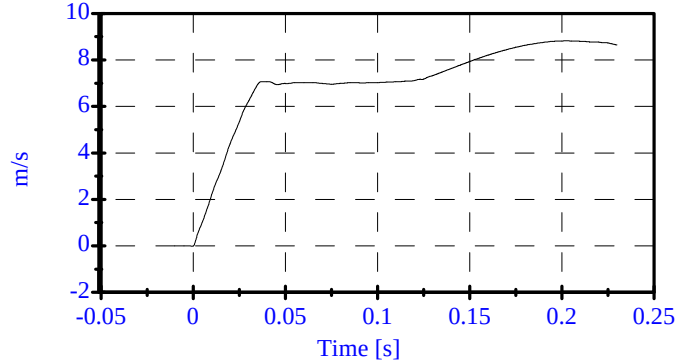
Sequential Test Number: 1 File: 270N 04-01-04

Laboratory Technician: B. Swiecicki

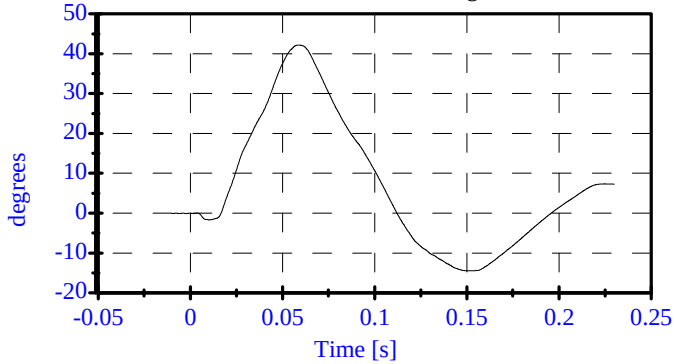
Pend Ax
CFC_180
Max: 28.5 [g's] at 0.001 [s]
Min: -4.4 [g's] at 0.043 [s]



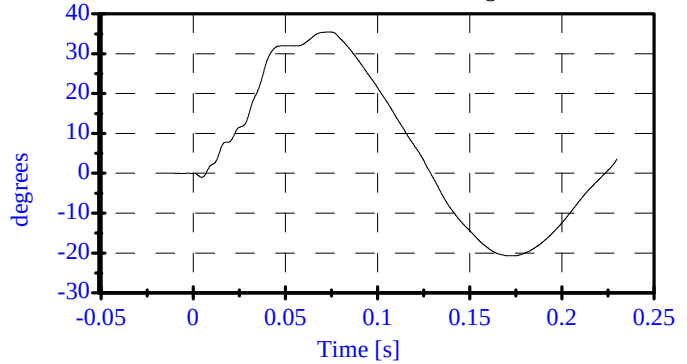
Pend Vx
CFC_180
Max: 8.8 [m/s] at 0.203 [s]
Min: -0.0 [m/s] at -0.001 [s]



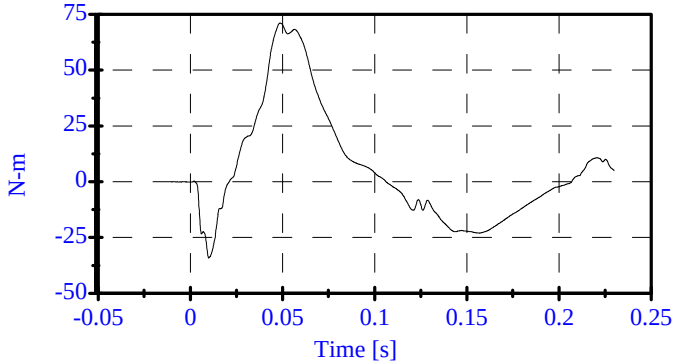
Head Rot
CFC_180
Max: 42.2 [degrees] at 0.059 [s]
Min: -14.4 [degrees] at 0.151 [s]



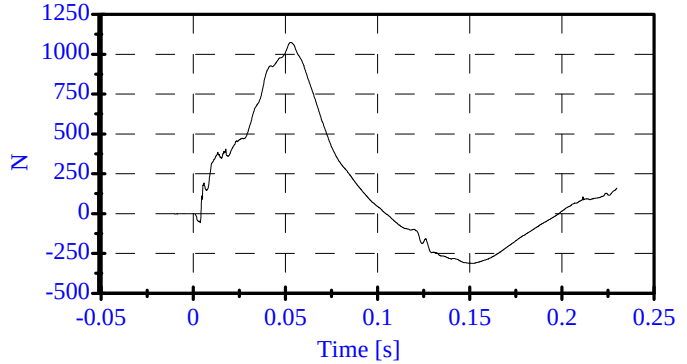
Arm Rot
CFC_180
Max: 35.5 [degrees] at 0.075 [s]
Min: -20.7 [degrees] at 0.172 [s]



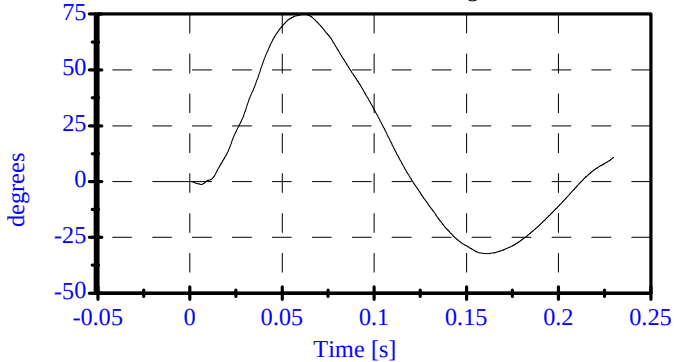
Neck Mx
CFC_600
Max: 71.1 [N-m] at 0.049 [s]
Min: -34.1 [N-m] at 0.010 [s]



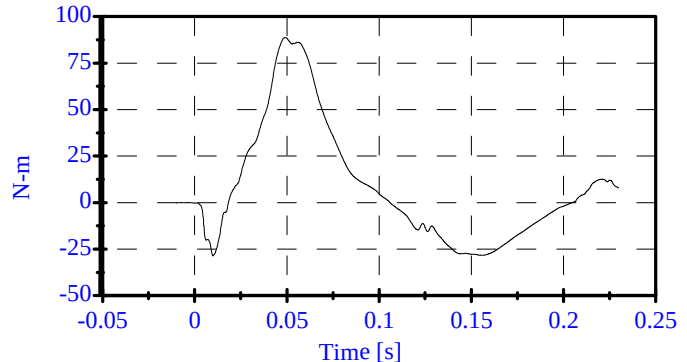
Neck Fy
CFC_1000
Max: 1073.9 [N] at 0.053 [s]
Min: -311.7 [N] at 0.151 [s]



Tot Rot
CFC_180
Max: 75.0 [degrees] at 0.062 [s]
Min: -32.2 [degrees] at 0.161 [s]



Mocy
Max: 88.7 [N-m] at 0.049 [s]
Min: -28.5 [N-m] at 0.010 [s]



**ABDOMINAL COMPRESSION TEST
PRE-TEST**

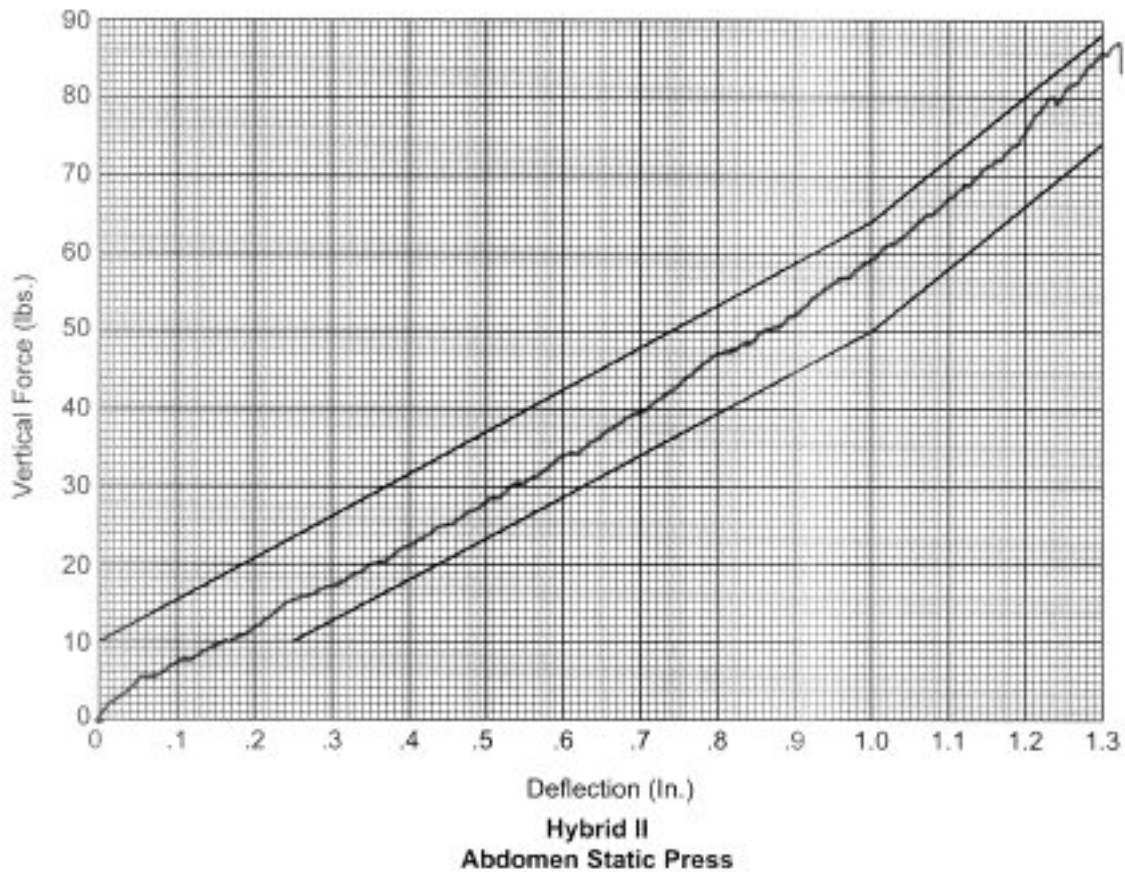
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: <u>270</u>	Sequential Test Number: <u>3</u>	
Date: <u>April 5, 2004</u>	Laboratory Technician: <u>B. Swiecicki</u>	

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	33.0
FORCE @ 13 mm (N)	104 - 162	126.8
FORCE @ 19 mm (N)	163 - 221	191.3
FORCE @ 25 mm (N)	222 - 280	262.4
FORCE @ 33 mm (N)	325 - 391	381.7

REMARKS: None



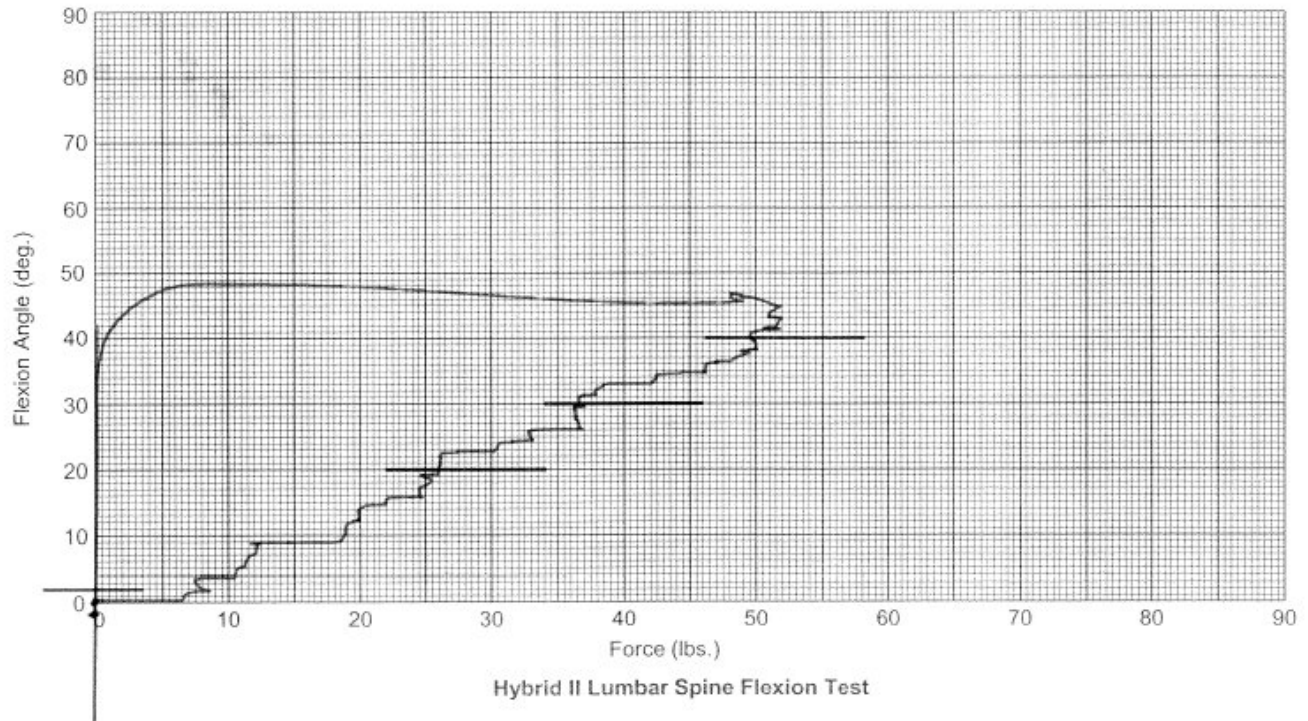
LUMBAR FLEXION TEST
PRE-TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: <u>270</u>	Sequential Test Number: <u>3</u>	
Date: <u>April 5, 2004</u>	Laboratory Technician: <u>B. Swiecicki</u>	

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	33.0
FORCE @ 0° (N)	0 - 26.7	0.0
FORCE @ 20° (N)	97.8 - 151.2	115.7
FORCE @ 30° (N)	151.2 - 204.6	162.4
FORCE @ 40° (N)	204.6 - 258	220.2
RETURN ANGLE	12° max.	0°

REMARKS: None



PRE-TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 3
Date: April 5, 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.: 269

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 2
Date: May 12, 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.: 269 Sequential Test Number: 2
Date: May 12, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	904
RH- Rib Height (mm)	502 - 520	503
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
KH- Knee Pivot from Back Line (mm)	511 - 526	518
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	371

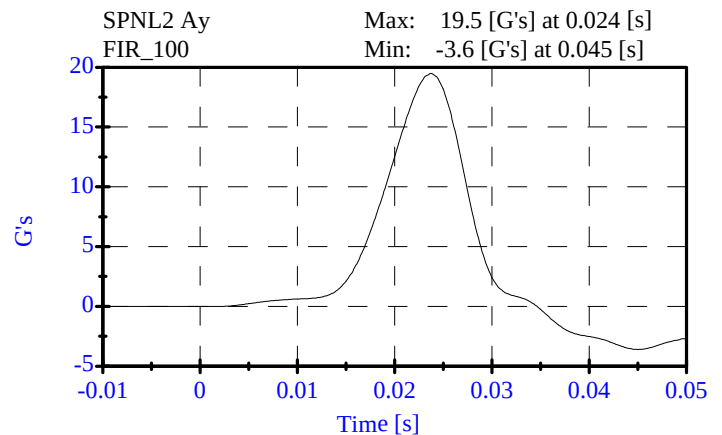
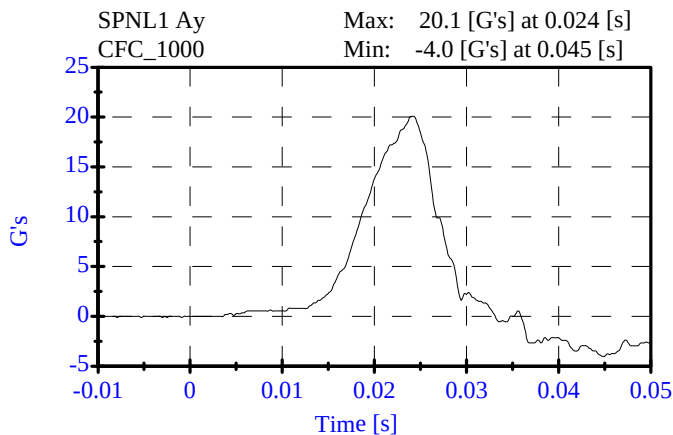
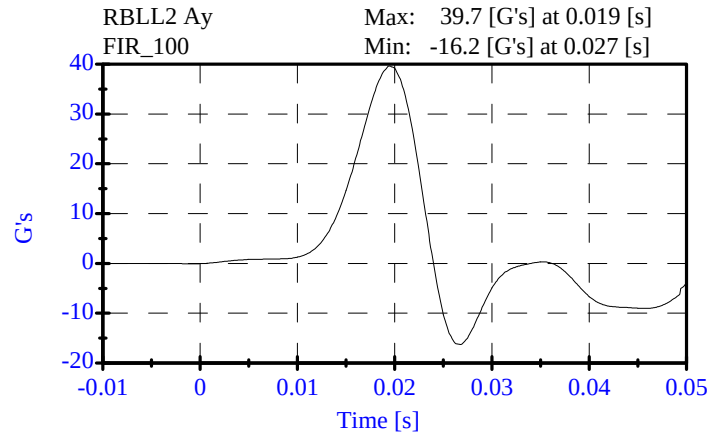
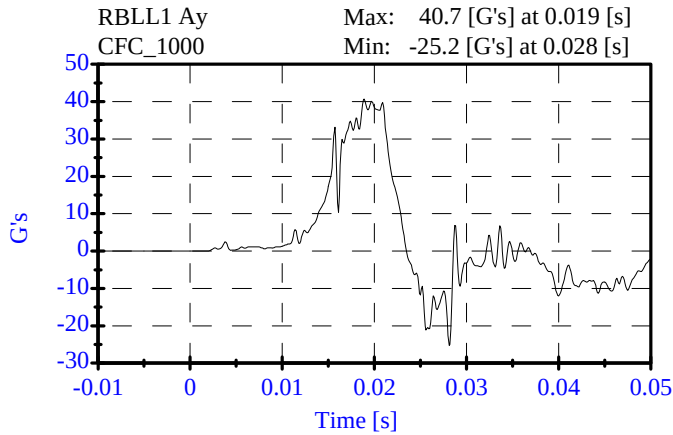
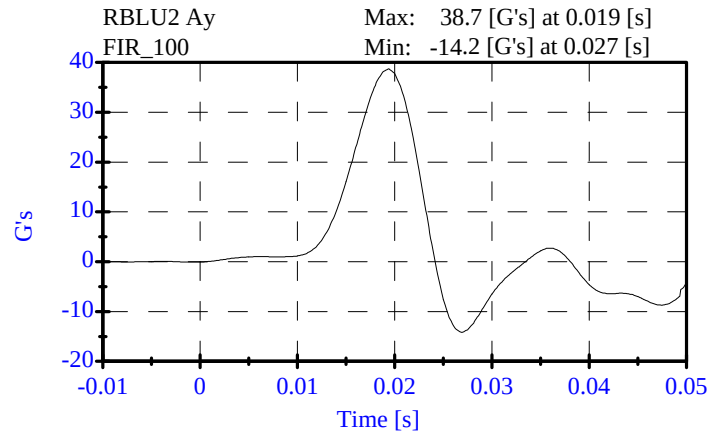
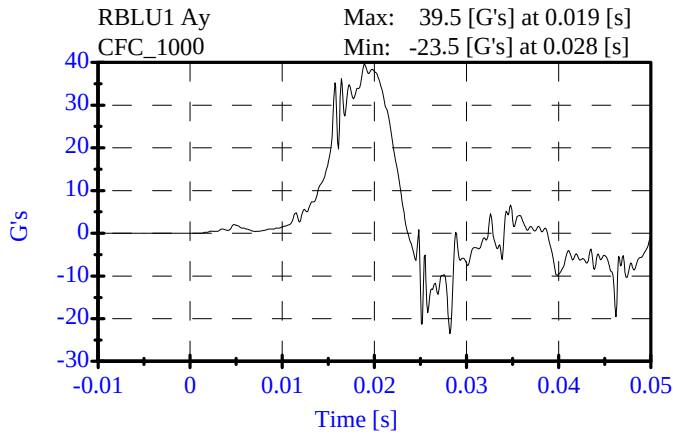
REMARKS: None

Thorax Impact
Post-Test
CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: May 11, 2004

Sequential Test Number: 1 File: 269T 05-11-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.32 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	38.70 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	39.67 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	19.49 G's	Passed



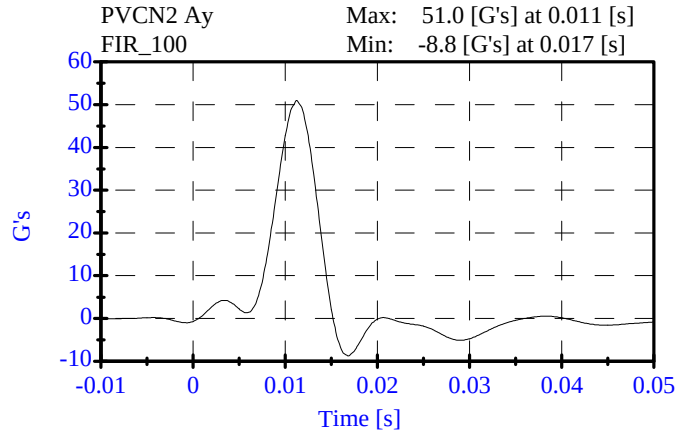
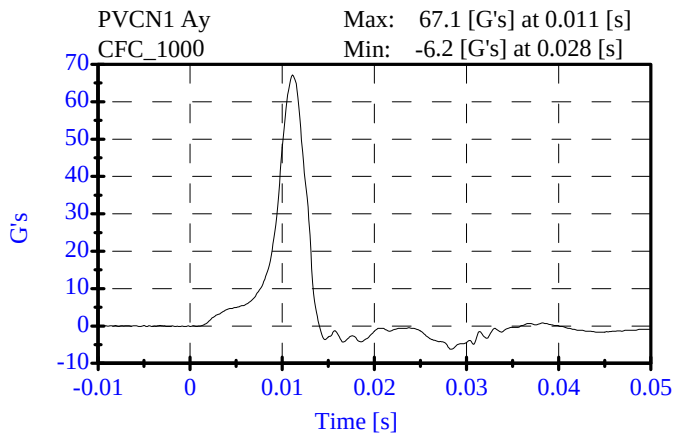
**Pelvic Impact
Post-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 269
Date: May 11, 2004

Sequential Test Number: 1 File: 269P 05-11-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.32 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	51.00 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.4 ms	Passed



Head Drop Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

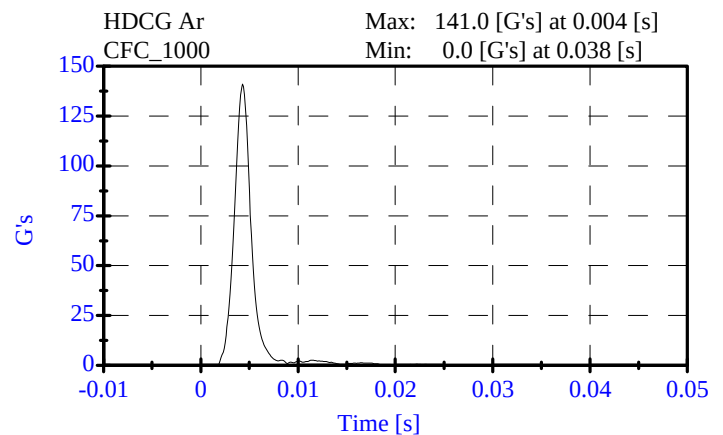
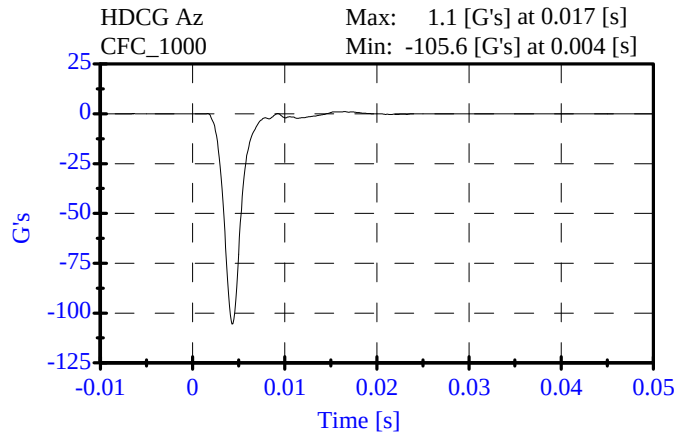
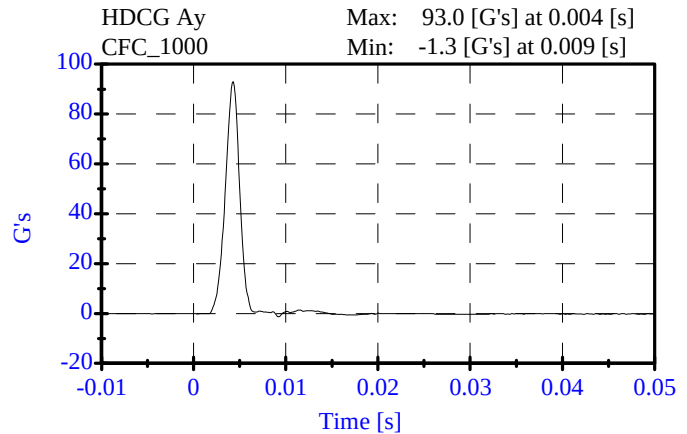
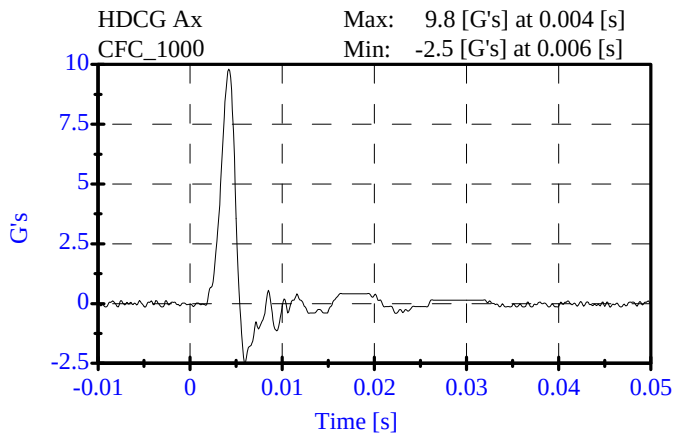
ATD Serial No: 269

Date: May 7, 2004

Sequential Test Number: 1 File: 269H1 05-07-04

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	31.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	141.03 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	9.80 Gs	Passed
Curve PerCent NonModal:	< 15%	1.89 %	Passed



Neck Test**Post-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 269

Date: May 10, 2004

Sequential Test Number: 1 File: 269N 05-10-04

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	38.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.01 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	1.97 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.16 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	5.78 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.04 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	64.0-78.0 Deg	73.55 Deg	Passed
Rotation Angle Decay:	50.0-70.0 ms	61.90 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	88.00-108.00 N-m	89.67 N-m	Passed
Occipital Moment Decay:	40.0-60.0 ms	53.00 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	0.0-20.0 ms	6.50 ms	Passed

Neck Test

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

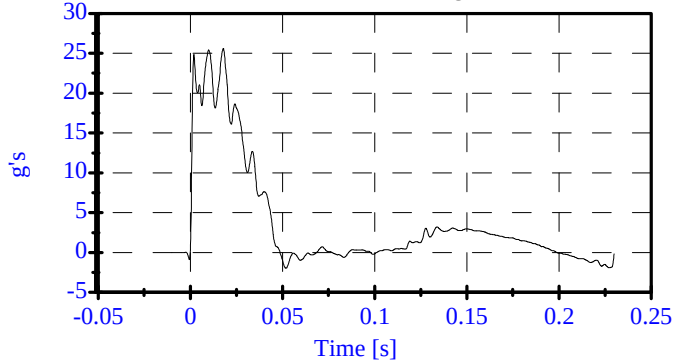
ATD Serial No: 269

Date: May 10, 2004

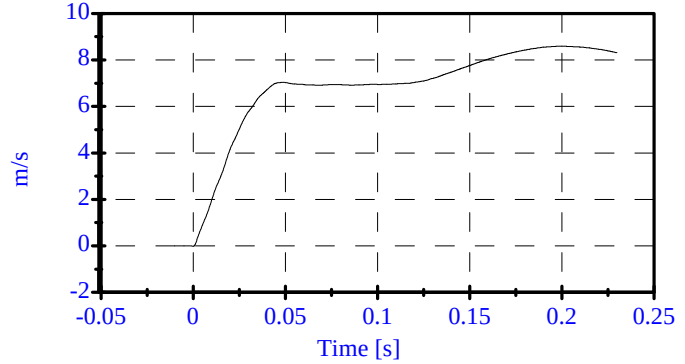
Sequential Test Number: 1 File: 269N 05-10-04

Laboratory Technician: B. Swiecicki

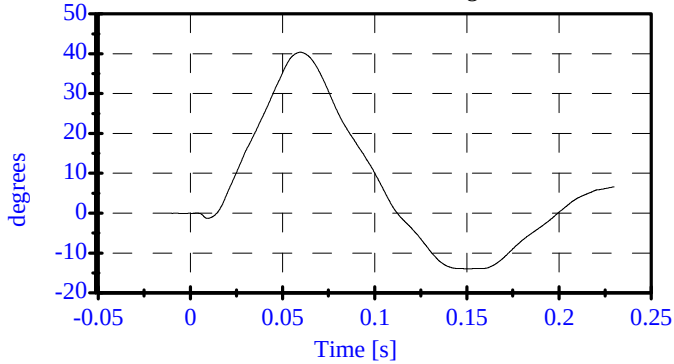
Pend Ax
CFC_180
Max: 25.6 [g's] at 0.018 [s]
Min: -2.0 [g's] at 0.052 [s]



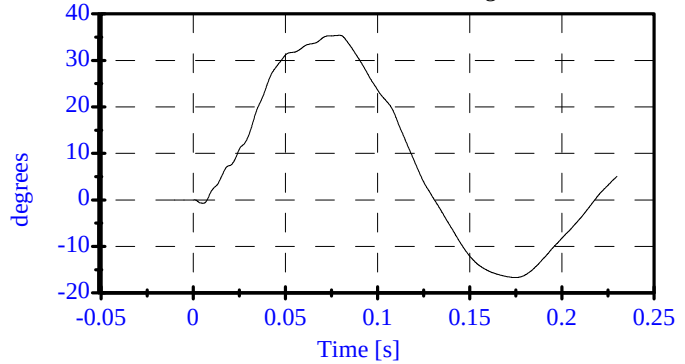
Pend Vx
CFC_180
Max: 8.6 [m/s] at 0.199 [s]
Min: -0.0 [m/s] at -0.000 [s]



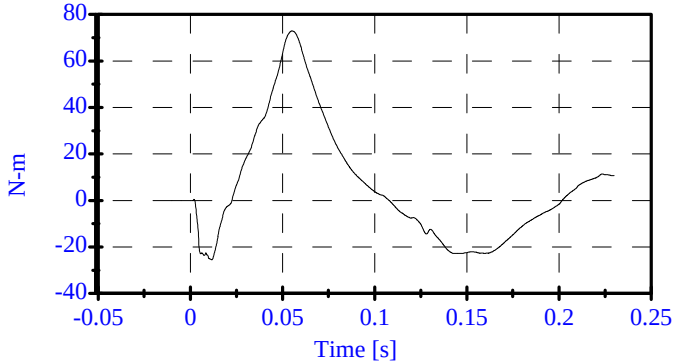
Head Rot
CFC_180
Max: 40.4 [degrees] at 0.060 [s]
Min: -13.9 [degrees] at 0.149 [s]



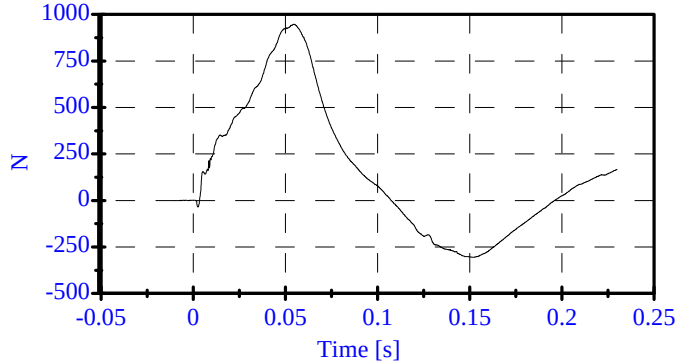
Arm Rot
CFC_180
Max: 35.4 [degrees] at 0.079 [s]
Min: -16.7 [degrees] at 0.175 [s]



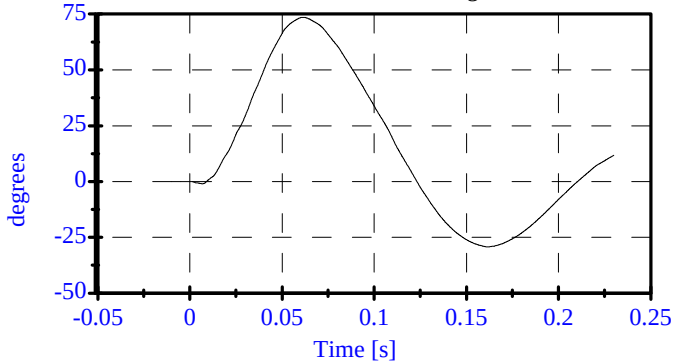
Neck Mx
CFC_600
Max: 72.8 [N-m] at 0.055 [s]
Min: -25.5 [N-m] at 0.012 [s]



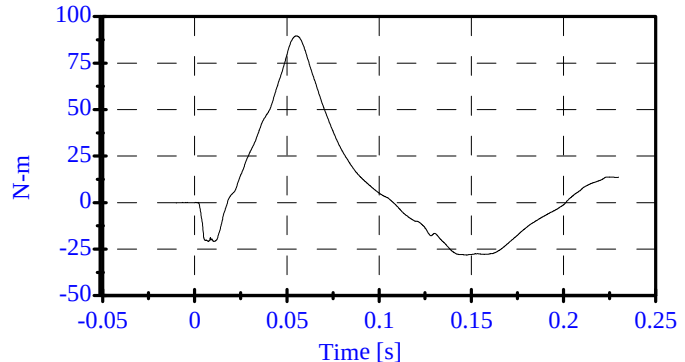
Neck Fy
CFC_1000
Max: 947.1 [N] at 0.055 [s]
Min: -305.9 [N] at 0.153 [s]



Tot Rot
CFC_180
Max: 73.5 [degrees] at 0.061 [s]
Min: -29.2 [degrees] at 0.162 [s]



Mocy
Max: 89.7 [N-m] at 0.055 [s]
Min: -28.1 [N-m] at 0.148 [s]



**ABDOMINAL COMPRESSION TEST
POST TEST**

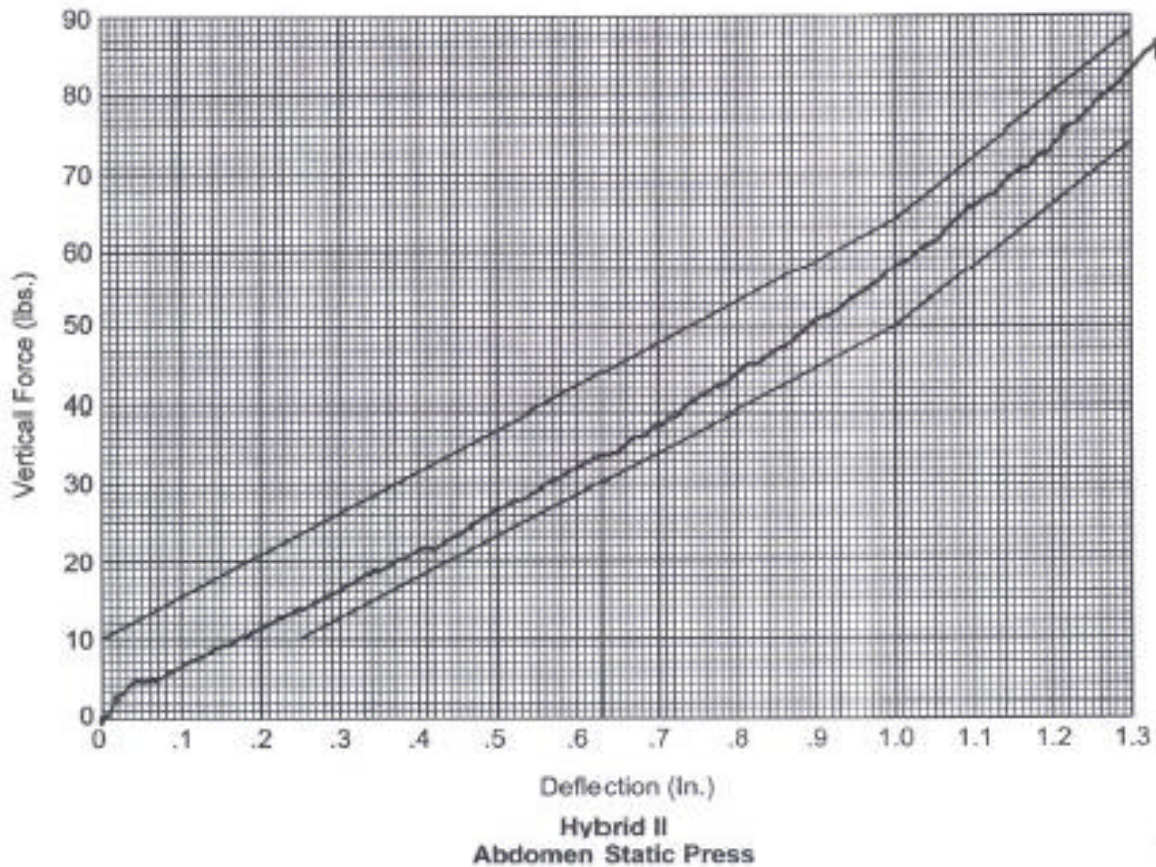
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: <u>269</u>	Sequential Test Number: <u>2</u>	
Date: <u>May 11, 2004</u>	Laboratory Technician: <u>B. Swiecicki</u>	

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	38.00
FORCE @ 13 mm (N)	104 - 162	121.21
FORCE @ 19 mm (N)	163 - 221	181.48
FORCE @ 25 mm (N)	222 - 280	258.00
FORCE @ 33 mm (N)	325 - 391	368.31

REMARKS: None



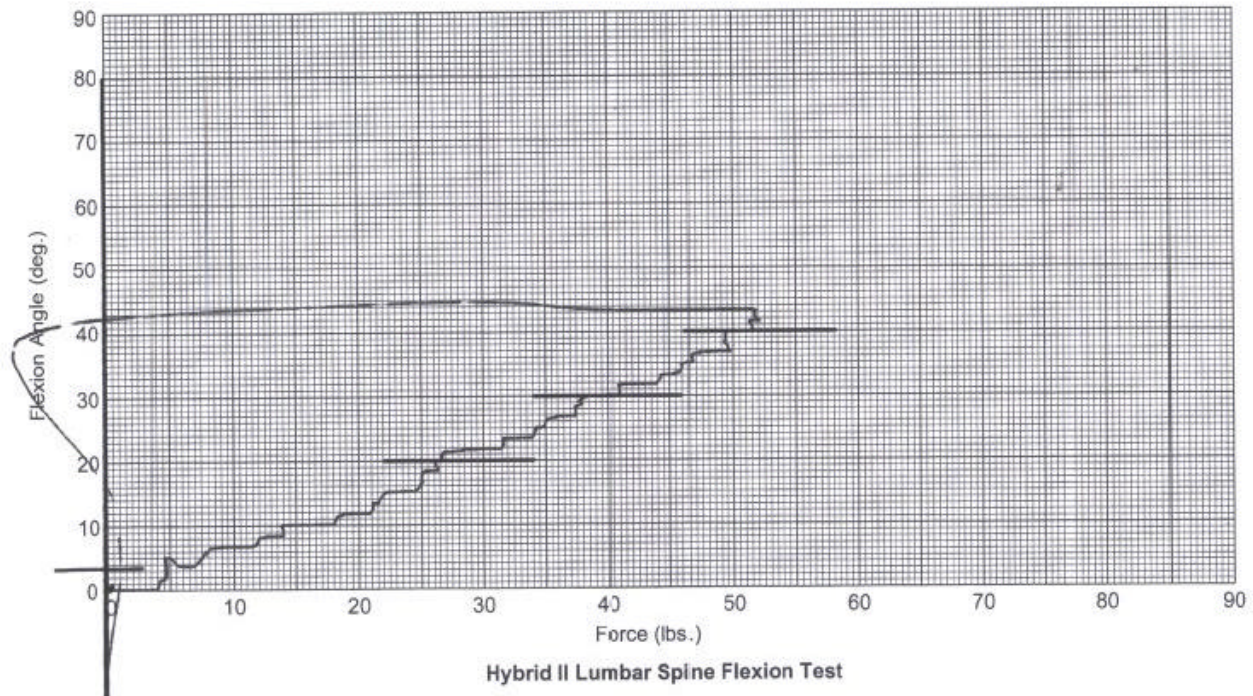
LUMBAR FLEXION TEST
POST TEST
 (Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269	Sequential Test Number: 2	
Date: May 11, 2004	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	0.00
FORCE @ 20° (N)	97.8 - 151.2	115.65
FORCE @ 30° (N)	151.2 - 204.6	182.38
FORCE @ 40° (N)	204.6 - 258	229.08
RETURN ANGLE	12° max.	3.5°

REMARKS: None



POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 269 Sequential Test Number: 2
Date: May 12, 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.: 270

CONFIGURED FOR LEFT SIDE IMPACT

**CALIBRATION TEST RESULTS SUMMARY
POST TEST**

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.:	<u>270</u>	Sequential Test Number:	<u>4</u>
Date:	<u>May 11, 2004</u>	Laboratory Technician:	<u>B. Swiecicki</u>

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.: 270 Sequential Test Number: 4
Date: May 11, 2004 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	505
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	234
KH- Knee Pivot from Back Line (mm)	511 - 526	516
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	376

REMARKS: None

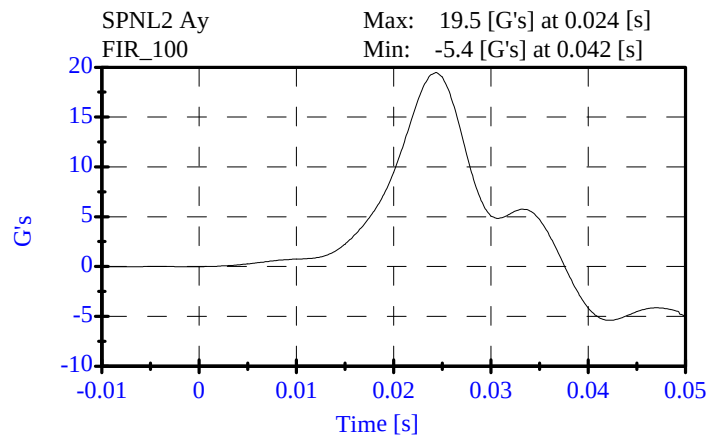
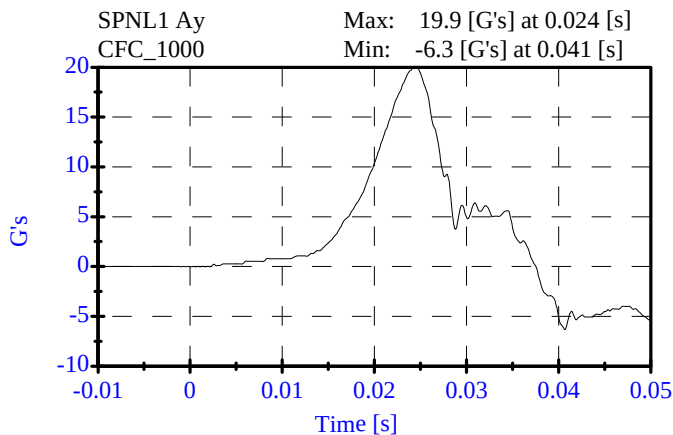
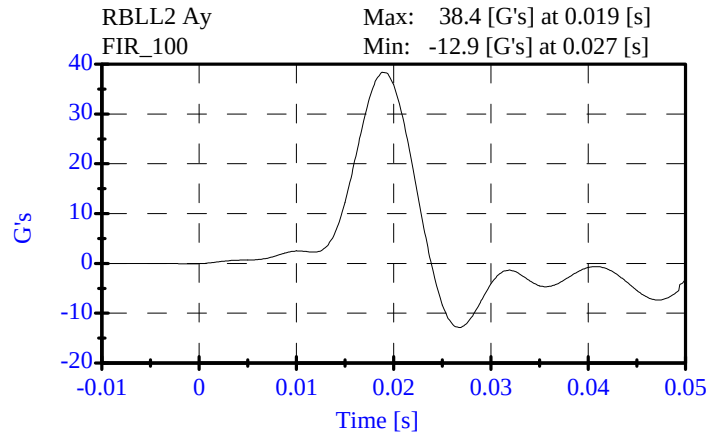
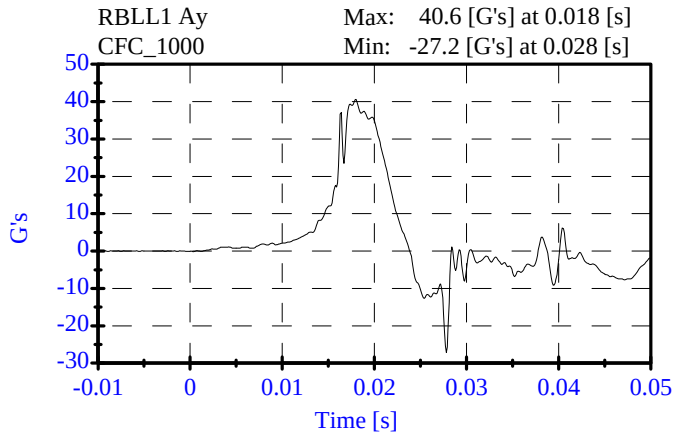
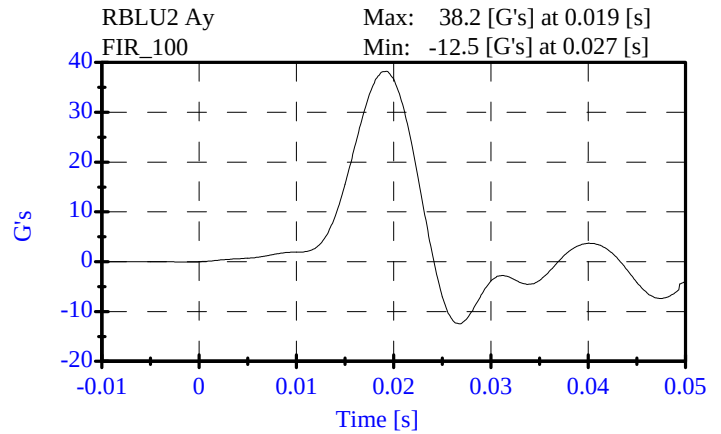
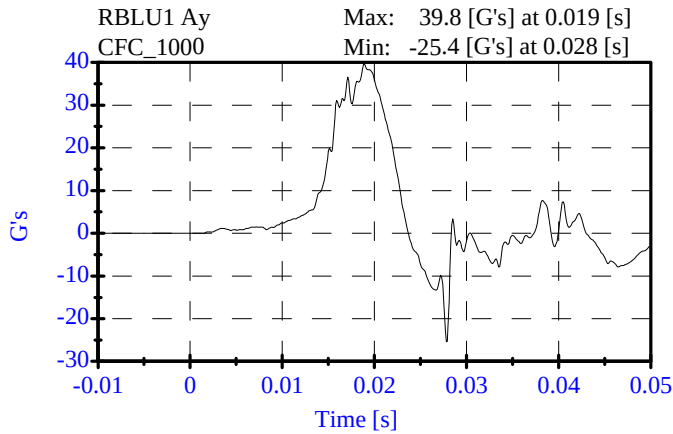
Thorax Impact **Post-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: May 11, 2004

Sequential Test Number: 1 File: 270T2 05-11-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	29.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.27 m/s	Passed
Upper Rib Acceleration:	37.00-46.00 G's	38.18 G's	Passed
Lower Rib Acceleration:	37.00-46.00 G's	38.40 G's	Passed
Lower Spine Acceleration:	15.00-22.00 G's	19.50 G's	Passed



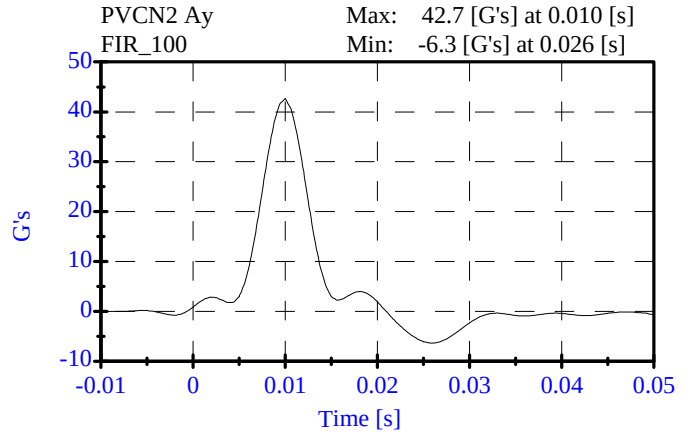
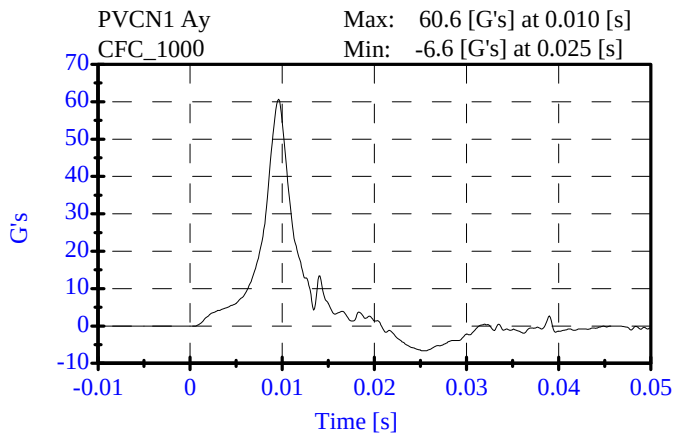
**Pelvic Impact
Post-Test**

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: May 12, 2004

Sequential Test Number: 1 File: 270P1 05-12-04
Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	18.9-25.5 C	21.1 C	Passed
Lab Humidity:	10-70 %	37.00 %	Passed
Probe Velocity:	4.27- 4.33 m/s	4.31 m/s	Passed
Pelvis Y Acceleration:	40.00-60.00 G's	42.65 G's	Passed
Time Above 20 Gs	3.0-7.0 ms	5.5 ms	Passed



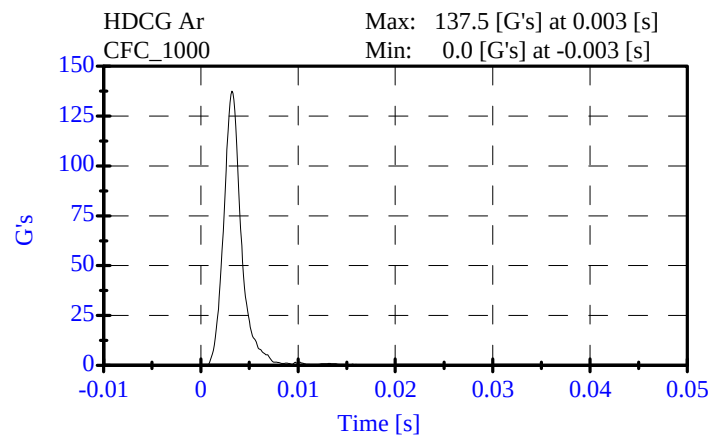
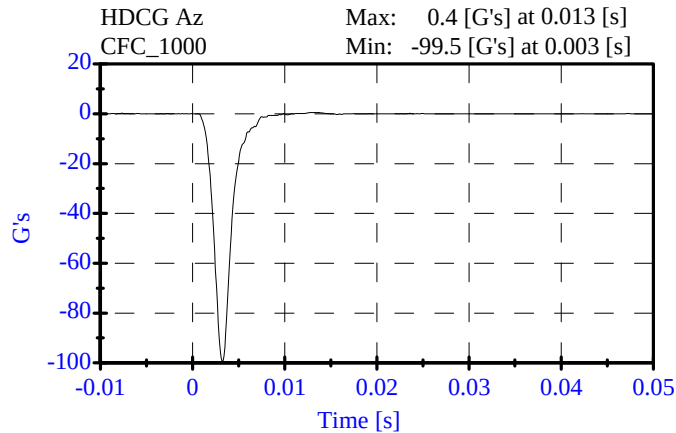
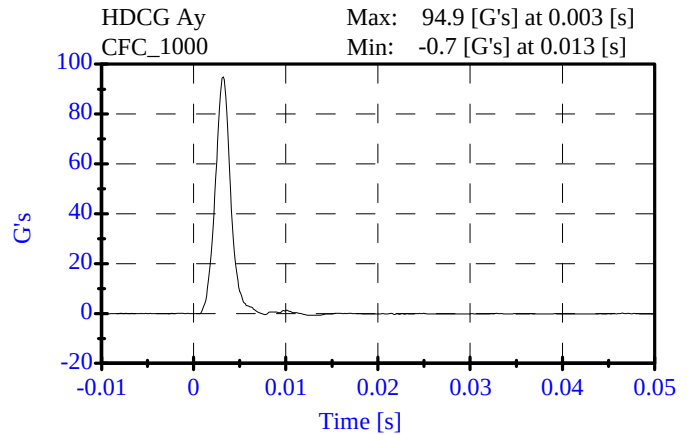
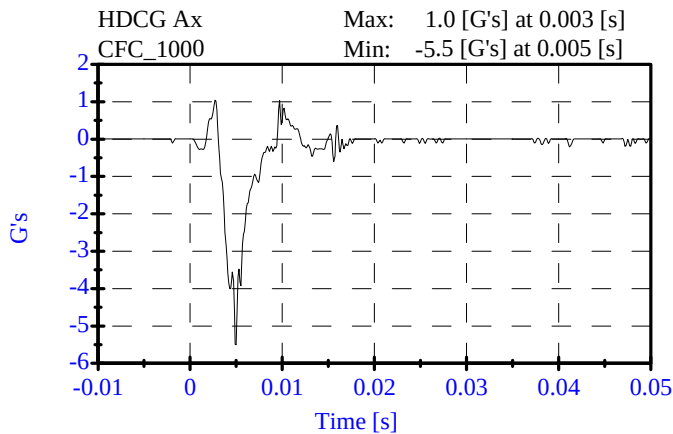
Head Drop Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

ATD Serial No: 270
Date: May 7, 2004

Sequential Test Number: 1 File: 270H1 05-07-04
Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS	STATUS
Lab Temperature:	18.9-25.6 C	21.1 C	Passed
Lab Humidity:	10-70 %	31.00 %	Passed
Peak Resultant Accel.:	120-150 Gs	137.51 Gs	Passed
Peak Lateral Accel.:	15 Gs Max	1.04 Gs	Passed
Curve PerCent NonModal:	< 15%	1.23 %	Passed



Neck Test**Post-Test****CONFIGURED FOR LEFT SIDE IMPACT**

ATD Serial No: 270

Date: May 10, 2004

Sequential Test Number: 1 File: 270N 05-10-04

Laboratory Technician: B. Swiecicki

<u>TEST PARAMETER</u>	<u>SPECIFICATION</u>	<u>TEST RESULTS</u>	<u>STATUS</u>
Lab Temperature:	20.6-22.2 C	21.1 C	Passed
Lab Humidity:	10-70 %	38.00 %	Passed
Impact Velocity:	6.89- 7.13 m/s	7.01 m/s	Passed
PENDULUM DELTA V			
Delta V at 10 ms:	1.96- 2.55 m/s	2.14 m/s	Passed
Delta V at 20 ms:	4.12- 5.10 m/s	4.41 m/s	Passed
Delta V at 30 ms:	5.73- 7.01 m/s	6.04 m/s	Passed
Delta V between 40-70 ms:	6.27- 7.64 m/s	7.16 m/s	Passed
D PLANE ROTATION			
Maximum Rotation:	64.0-78.0 Deg	74.63 Deg	Passed
Rotation Angle Decay:	50.0-70.0 ms	60.00 ms	Passed
MOMENT ABOUT THE OCCIPITAL CONDYLE			
Max Occipital Moment:	88.00-108.00 N-m	89.48 N-m	Passed
Occipital Moment Decay:	40.0-60.0 ms	52.30 ms	Passed
HEAD ROTATION TIME WITH RESPECT TO THE OCCIPITAL CONDYLE MOMENT			
Moment to Rotation Peak:	0.0-20.0 ms	8.20 ms	Passed

Neck Test

Post-Test

CONFIGURED FOR LEFT SIDE IMPACT

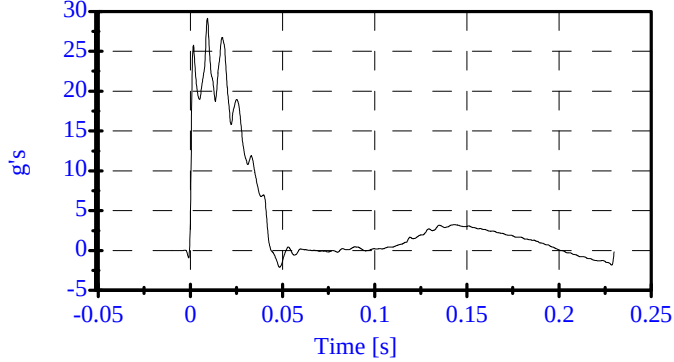
ATD Serial No: 270

Date: May 10, 2004

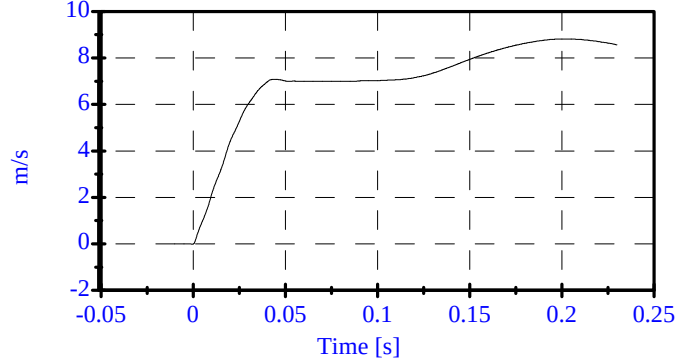
Sequential Test Number: 1 File: 270N 05-10-04

Laboratory Technician: B. Swiecicki

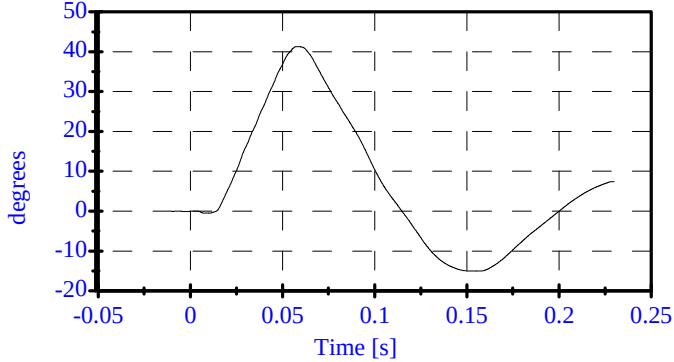
Pend Ax
CFC_180
Max: 29.1 [g's] at 0.009 [s]
Min: -2.1 [g's] at 0.049 [s]



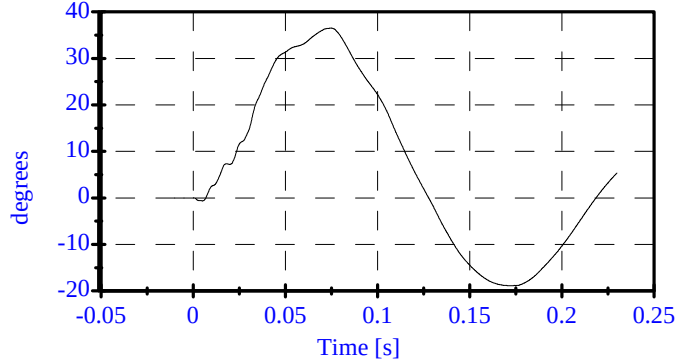
Pend Vx
CFC_180
Max: 8.8 [m/s] at 0.201 [s]
Min: -0.0 [m/s] at -0.000 [s]



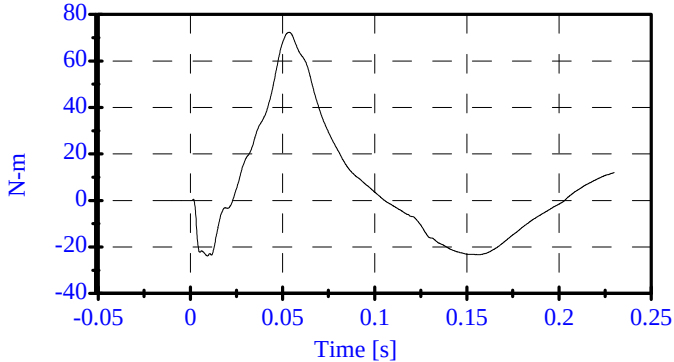
Head Rot
CFC_180
Max: 41.3 [degrees] at 0.058 [s]
Min: -15.0 [degrees] at 0.153 [s]



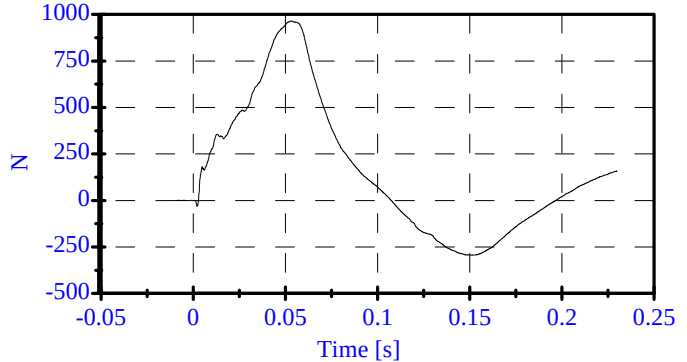
Arm Rot
CFC_180
Max: 36.5 [degrees] at 0.075 [s]
Min: -18.9 [degrees] at 0.172 [s]



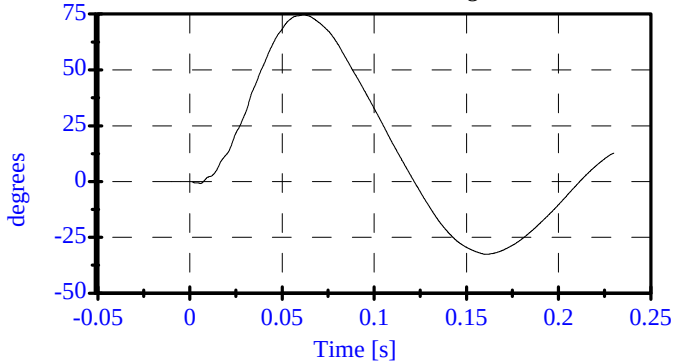
Neck Mx
CFC_600
Max: 72.3 [N-m] at 0.054 [s]
Min: -24.0 [N-m] at 0.009 [s]



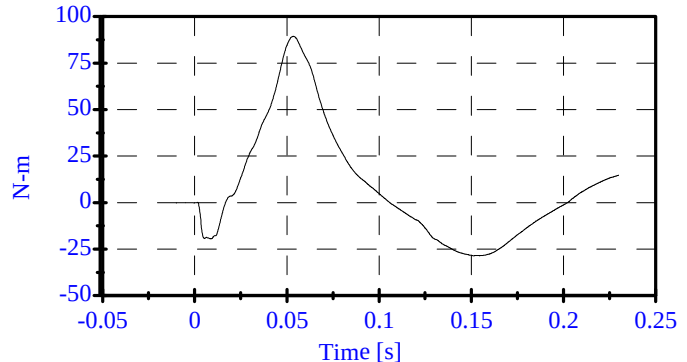
Neck Fy
CFC_1000
Max: 965.0 [N] at 0.054 [s]
Min: -295.1 [N] at 0.151 [s]



Tot Rot
CFC_180
Max: 74.6 [degrees] at 0.062 [s]
Min: -32.5 [degrees] at 0.161 [s]



Mocy
Max: 89.5 [N-m] at 0.054 [s]
Min: -28.5 [N-m] at 0.155 [s]



**ABDOMINAL COMPRESSION TEST
POST TEST**

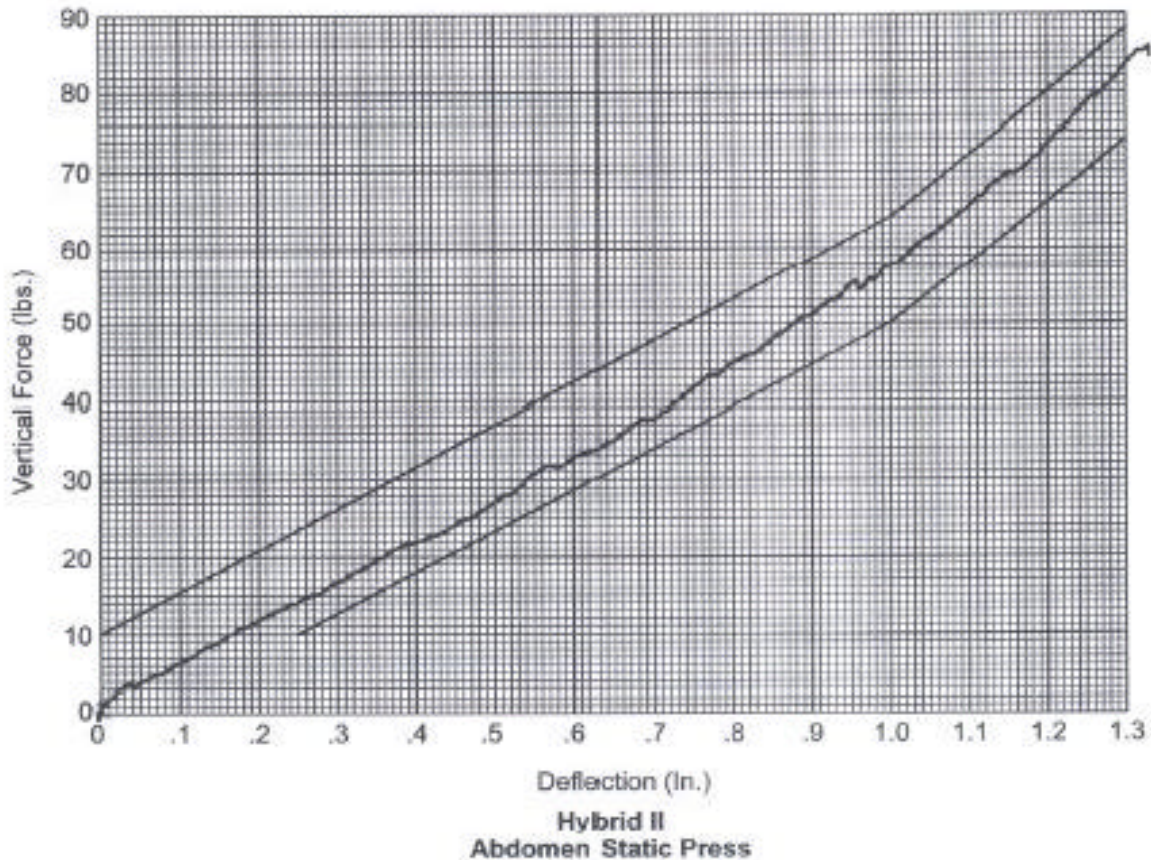
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: <u>270</u>	Sequential Test Number: <u>4</u>	
Date: <u>May 11, 2004</u>	Laboratory Technician: <u>B. Swiecicki</u>	

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	38.00
FORCE @ 13 mm (N)	104 - 162	124.55
FORCE @ 19 mm (N)	163 - 221	185.94
FORCE @ 25 mm (N)	222 - 280	257.11
FORCE @ 33 mm (N)	325 - 391	369.20

REMARKS: None



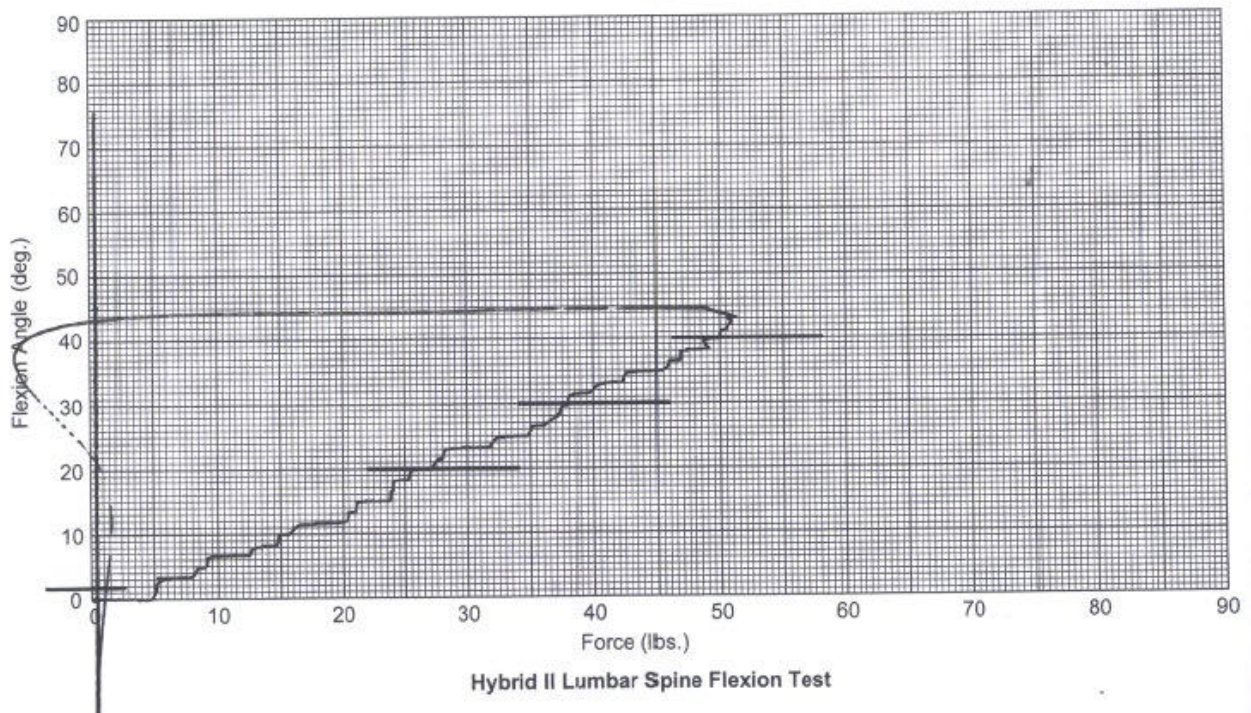
LUMBAR FLEXION TEST
POST TEST
 (Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: <u>270</u>	Sequential Test Number: <u>4</u>	
Date: <u>May 11, 2004</u>	Laboratory Technician: <u>B. Swiecicki</u>	

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	0.00
FORCE @ 20° (N)	97.8 - 151.2	121.21
FORCE @ 30° (N)	151.2 - 204.6	169.03
FORCE @ 40° (N)	204.6 - 258	222.41
RETURN ANGLE	12° max.	1.8°

REMARKS: None



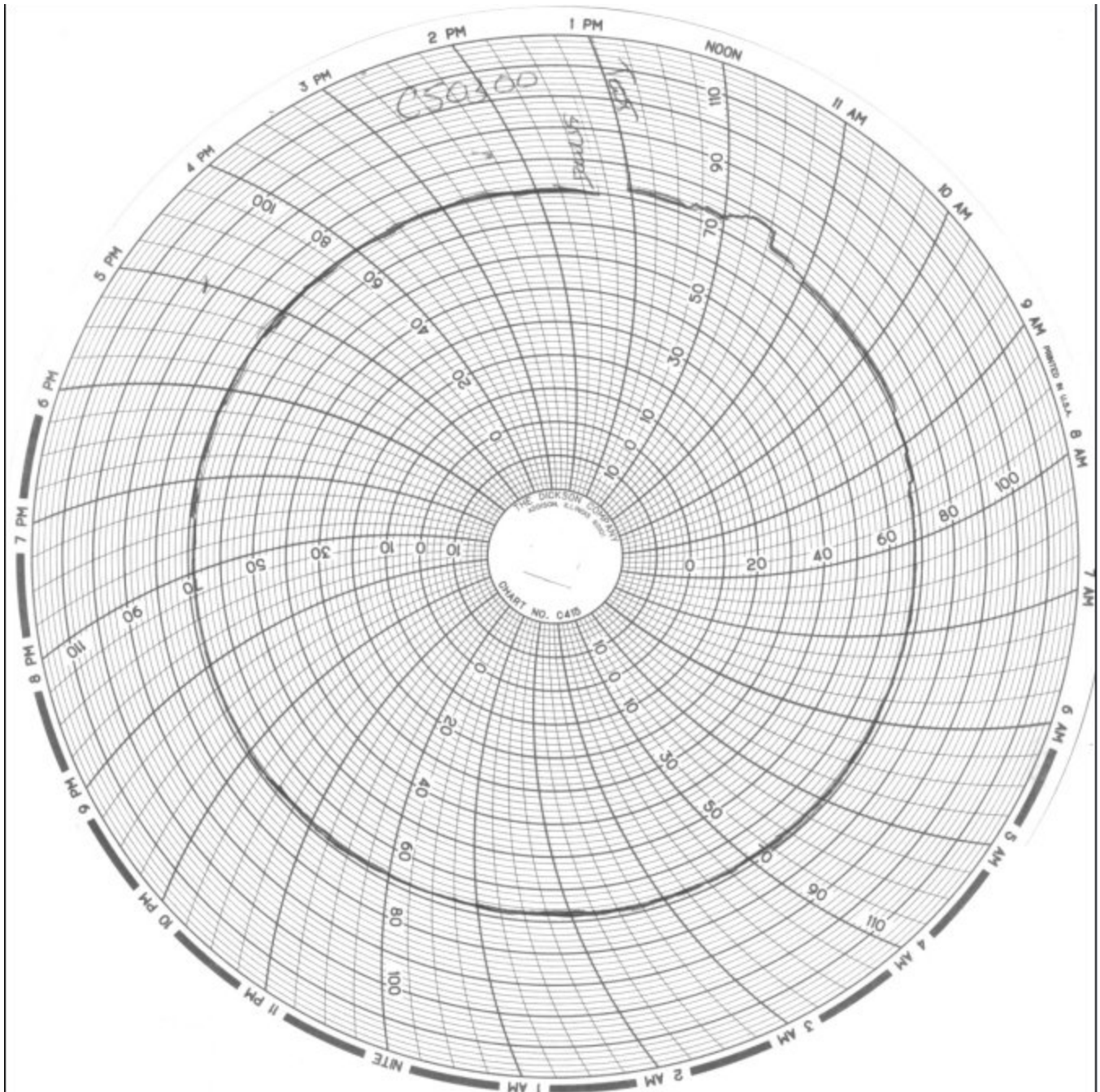
POST TEST DUMMY INSPECTION LIST
CONFIGURED FOR LEFT SIDE IMPACT

SID H3 Serial No.: 270 Sequential Test Number: 4
Date: May 11, 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.: 269		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P23161	ENDEVCO	30-Mar-04
HEAD AY	AC-P24011	ENDEVCO	30-Mar-04
HEAD AZ	AC-P19111	ENDEVCO	30-Mar-04
UPPER NECK FX	LC-440Fx	DENTON	18-Jun-03
UPPER NECK FY	LC-440Fy	DENTON	18-Jun-03
UPPER NECK FZ	LC-440Fz	DENTON	18-Jun-03
UPPER NECK MX	LC-440Mx	DENTON	18-Jun-03
UPPER NECK MY	LC-440My	DENTON	18-Jun-03
UPPER NECK MZ	LC-440Mz	DENTON	18-Jun-03
UPPER RIB	AC-P16862	ENDEVCO	30-Mar-04
LOWER RIB	AC-P16656	ENDEVCO	30-Mar-04
LOWER SPINE	AC-P16866	ENDEVCO	30-Mar-04
PELVIS	AC-P16676	ENDEVCO	30-Mar-04
UPPER RIB REDUNDANT	AC-P23156	ENDEVCO	30-Mar-04
LOWER RIB REDUNDANT	AC-P16645	ENDEVCO	30-Mar-04
LOWER SPINE REDUNDANT	AC-P19343	ENDEVCO	30-Mar-04
PELVIS REDUNDANT	AC-P16843	ENDEVCO	30-Mar-04

	REAR SID NO.: 270		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
HEAD AX	AC-P23139	ENDEVCO	30-Mar-04
HEAD AY	AC-P13323	ENDEVCO	30-Mar-04
HEAD AZ	AC-P22943	ENDEVCO	25-Mar-04
UPPER NECK FX	LC-205Fx	DENTON	18-Jun-03
UPPER NECK FY	LC-205Fy	DENTON	18-Jun-03
UPPER NECK FZ	LC-205Fz	DENTON	18-Jun-03
UPPER NECK MX	LC-205Mx	DENTON	18-Jun-03
UPPER NECK MY	LC-205My	DENTON	18-Jun-03
UPPER NECK MZ	LC-205Mz	DENTON	18-Jun-03
UPPER RIB	AC-P18524	ENDEVCO	25-Mar-04
LOWER RIB	AC-P18533	ENDEVCO	25-Mar-04
LOWER SPINE	AC-P18514	ENDEVCO	25-Mar-04
PELVIS	AC-P18519	ENDEVCO	30-Mar-04
UPPER RIB REDUNDANT	AC-P18528	ENDEVCO	25-Mar-04
LOWER RIB REDUNDANT	AC-P18518	ENDEVCO	25-Mar-04
LOWER SPINE REDUNDANT	AC-P18688	ENDEVCO	25-Mar-04
PELVIS REDUNDANT	AC-P18531	ENDEVCO	30-Mar-04

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-P23993	ENDEVCO	22-Mar-04
RIGHT FRONT SILL (Y)	AC-P23999	ENDEVCO	22-Mar-04
RIGHT FRONT SILL (Z)	AC-P23939	ENDEVCO	22-Mar-04
RIGHT REAR SILL (X)	AC-J37854	ENDEVCO	22-Mar-04
RIGHT REAR SILL (Y)	AC-J38127	ENDEVCO	22-Mar-04
RIGHT REAR SILL (Z)	AC-J37980	ENDEVCO	22-Mar-04
REAR FLOORPAN ABOVE AXLE (X)	AC-P23873	ENDEVCO	16-Jan-04
REAR FLOORPAN ABOVE AXLE (Y)	AC-P19246	ENDEVCO	16-Jan-04
REAR FLOORPAN ABOVE AXLE (Z)	AC-J31034	ENDEVCO	22-Jan-04
LEFT REAR SILL (Y)	AC-9440-011	GS SENSORS	01-Dec-03
LEFT FRONT SILL (Y)	AC-9440-017	GS SENSORS	01-Dec-03
LEFT FRONT DOOR CENTERLINE (Y)	-	-	-
RIGHT REAR SEAT OCCUPANT COMP. (Y)	AC-F53	ICS	01-Dec-03
MID REAR OF LEFT FRONT DOOR (Y)	-	-	-
LEFT FRONT DOOR UPPER C/L (Y)	-	-	-
MID REAR OF LEFT REAR DOOR (Y)	-	-	-
LEFT REAR DOOR UPPER C/L (Y)	-	-	-
LOWER LEFT B- PILLAR (Y)	AC-9440-034	GS SENSORS	03-Dec-03
MIDDLE LEFT B-PILLAR (Y)	AC-9440-032	GS SENSORS	19-Jan-04
LOWER LEFT A-PILLAR (Y)	AC-9440-024	GS SENSORS	02-Dec-03
UPPER LEFT A-PILLAR (Y)	AC-9440-039	GS SENSORS	03-Dec-03
FRONT SEAT TRACK (Y)	AC-9440-006	GS SENSORS	16-Dec-03
REAR SEAT TRACK (Y)	AC-9450-039	GS SENSORS	16-Apr-04
VEHICLE CG (X)	AC-P21135	ENDEVCO	18-Mar-04
VEHICLE CG (Y)	AC-P16575	ENDEVCO	17-Mar-04
VEHICLE CG (Z)	AC-P14388	ENDEVCO	18-Mar-04
MDB CG (X)	AC-C16433	ENDEVCO	12-Feb-04
MDB CG (Y)	AC-C16416	ENDEVCO	12-Feb-04
MDB CG (Z)	AC-C16499	ENDEVCO	12-Feb-04
MDB REAR FRAME MEMBER (X)	AC-C14948	ENDEVCO	12-Feb-04
MDB REAR FRAME MEMBER (Y)	AC-C16680	ENDEVCO	12-Feb-04

REMARKS: None