634478

V3341

REPORT NUMBER: 214-CAL-00-08

SAFETY COMPLIANCE TESTING FOR FMVSS 214
SIDE IMPACT PROTECTION

FORD MOTOR COMPANY
2000 FORD FOCUS
3-DOOR HATCHBACK

NHTSA NUMBER: CY0209

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

March 31, 2000

FINAL REPORT

U. S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Safety Assurance
Office of Vehicle Compliance
400 Seventh Street, SW
Room 6115 (NSA-30)
Washington, DC 20590

This Final Test Report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, under Contract No. DTNH22-97-C-01033. 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.

Prepared By: _____
Lawrence O. Valvo, Project Engineer

Approved By: _____
David J. Travale, Program Manager
Transportation Sciences Center

Approval Date: April 17, 2000

FINAL REPORT ACCEPTANCE BY:

Accepted By: _____

Acceptance Date: 5/9/00

TECHNICAL REPORT STANDARD TITLE PAGE

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
214-CAL-00-08		

4. Title and Subtitle	5. Report Date
Final Report of FMVSS 214 Compliance Side Impact Testing of a 2000 Ford Focus 3-Door Hatchback NHTSA No.: CY0209	March 31, 2000
	6. Performing Organization Code CAL
7. Author(s) Lawrence Q. Valvo, Project Engineer David J. Travale, Program Manager	8. Performing Organization Report No. 8502-16
9. Performing Organization Name and Address Veridian Engineering Transportation Sciences Center P.O. Box 400 Buffalo, New York 14225	10. Work Unit No.
	11. Contract or Grant No. DTNH22-97-C-01033
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Office of Vehicle Compliance 400 Seventh Street, SW, Room 6115 Washington, DC 20590	13. Type of Report and Period Covered Final Report March 2000 - April 2000
	14. Sponsoring Agency Code NSA-30

15. Supplementary Notes

16. Abstract

A 48/24 kph 90° Impact (Moving Deformable Barrier) Compliance Test was conducted on the subject 2000 Ford Focus 3-Door Hatchback in accordance with the specifications of the Office of Vehicle Safety Compliance Test Procedure No. TP-214D-04 to determine FMVSS 214 Side Impact Protection compliance. This test was conducted at the Veridian Engineering Crash Test Facility in Buffalo, New York, on March 31, 2000.

The impact velocity of the Moving Deformable Barrier (MDB) was 53.4 kph, and the ambient temperature at the struck (driver's) side of the target vehicle at the time of impact was 21.1 °C. The target vehicle post-test maximum crush was 292 mm at level 2.

The test or target vehicle's performance is given below:

	Front SID		Rear SID	
Left Upper Rib Acceleration:	44	g's	59	g's
Left Lower Rib Acceleration:	54	g's	73	g's
Lower Spine Acceleration:	60	g's	63	g's
Thoracic Trauma Index (TTI):	57	g's	68	g's
Pelvis Acceleration (PEV):	85	g's	64	g's

The door on the struck side of the vehicle did not separate from the body at the hinges or latches and the opposite door and rear hatch did not open during the side impact event.

17. Key Words	18. Distribution Statement
Compliance Testing Side Impact Protection FMVSS 214 Side Impact Dummy (SID)	Copies of this report are available from: National Highway Traffic Safety Administration Technical Reference Division Room 5108 (NAD-52) 400 Seventh st., S.W. Washington, D.C. 20590 Telephone No. (202) 366-4946 ATTN: Robert Hornicle

19. Security Classification of Report	20. Security Classification of Page	21. No. of Pages	22. Price
UNCLASSIFIED	UNCLASSIFIED	259	

TABLE OF CONTENTS

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. DTNH22-97-C-01033. The purpose of this test was to evaluate side impact protection in a 2000 Ford Focus 3-Door Hatchback. The test was conducted in accordance with the Office of Vehicle Safety Compliance's Laboratory Test Procedure (TP-214D-04, dated September 1, 1995).

SECTION 3

SUMMARY OF TEST RESULTS

DATA SHEET 1

GENERAL TEST AND VEHICLE PARAMETER DATA

TEST VEHICLE INFORMATION:

Year/Make/Model/Body Style: 2000 Ford Focus 3-Door Hatchback

Vehicle Body Color: Red VIN: 3FAFP3134YR158195

Vehicle NHTSA No.: CY0209 Month & Year of Manufacture: 1/00

Engine Data: 4 Cylinders; - CID; 2.0 Liters; - cc

Engine Placement: - Longitudinal; or X Lateral

Transmission: 5 Speed; X Manual; - Automatic; - Overdrive

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

Odometer Reading 121 km

Options: - A/C; X Power Steering; X Pwr.Brakes; - Pwr. Windows

DATA FROM TIRE PLACARD

Tire Pressure* (at capacity); 221 kPa FRONT

221 kPa REAR

Recommended Tire Size: P175/70R14; P185/65R14; P195/60R15

Tires on Test Vehicle: P195/60R15 ; Manufacturer: Goodyear

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

Vehicle Max Capacity Loading = 400 kg (A)

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

Vehicle Cargo Capacity = 59.8 kg (A-B)

TEST VEHICLE DELIVERED WEIGHT WITH MAXIMUM FLUIDS:

Left Front	=	362.0 kg	Left Rear	=	228.0 kg
Right Front	=	355.0 kg	Right Rear	=	228.5 kg
TOTAL FRONT	=	717.0 kg	TOTAL REAR	=	456.5 kg
% of Total Weight	=	61.1 %	% of Total Weight	=	38.9 %
TOTAL WEIGHT	=	1173.5 kg			

* Tire pressure used in test.

DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2000 Ford Focus NHTSA No. CY0209

CALCULATION OF VEHICLE'S TARGET TEST WEIGHT:

Total Test Vehicle Delivered Weight with Max. Fluids	=	1173.5	kg (A)
Maximum Cargo Carrying Capacity of Test Vehicle	=	59.8	kg (B)
Weight of instrumented Side Impact Dummies (1 or 2 X 81.2 kg)	=	162.4	kg (C)
TEST VEHICLE TARGET WEIGHT:	=	1395.7	kg (A+B+C)

FULLY LOADED TEST VEHICLE (UDVW + 1 or 2 SID(s) + CARGO):

Left Front	=	404.0 kg	Left Rear	=	337.0 kg
Right Front	=	365.0 kg	Right Rear	=	290.5 kg
TOTAL FRONT	=	769.0 kg	TOTAL REAR	=	627.5 kg
% of Total Weight	=	55.1 %	% of Total Weight	=	44.9 %

TOTAL TEST WEIGHT = 1396.5 kg

AS TESTED WEIGHT OF TEST VEHICLE (1 OR 2 SID(s) + CARGO + EQUIPMENT & INSTRUMENTATION):

Left Front	=	399.0 kg	Left Rear	=	337.0 kg
Right Front	=	364.5 kg	Right Rear	=	289.5 kg
TOTAL FRONT	=	763.5 kg	TOTAL REAR	=	626.5 kg
% of Total Weight	=	54.9 %	% of Total Weight	=	45.1 %

TOTAL TEST WEIGHT = 1390.0 kg

TEST VEHICLE ATTITUDE (all dimensions in millimeters):

AS DELIVERED:

Left Front 690 Right Front 700 Left Rear 696 Right Rear 700

FULLY LOADED:

Left Front 671 Right Front 695 Left Rear 650 Right Rear 662

READY FOR TEST:

Left Front 674 Right Front 695 Left Rear 653 Right Rear 666

Test Vehicle Wheelbase: 2612 millimeters

C.G. = 1177 millimeters rearward of front wheel centerline

TOTAL VEHICLE LENGTH:

Right Side = 4140 millimeters

Left Side = 4140 millimeters

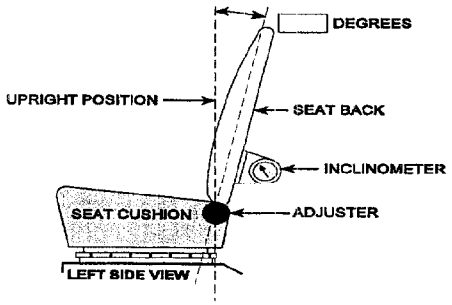
Centerline = 4275 millimeters

DATA SHEET 1 (continued)

GENERAL TEST VEHICLE PARAMETER DATA

Vehicle: 2000 Ford Focus NHTSA No. CY0209

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 TRACK POSITION: Seat place in detent 8, where the forward-most position is detent 0.

Total Length of Adjustment Travel: 239 millimeters

Total Number of Adjustment Positions or Detents: 17

FRONT SEAT BACK ADJUSTMENT POSITION: Seat back positioned so that the seat back frame angle measured 330 mm above the seat back pivot is 24 degrees back from vertical.

Seat Back Torso Angle: 24 degrees

SECOND POSITION SEAT:

Total Length of Fore/Aft Adjustment Travel: 0 millimeters

Seat Back Adjustment Position: Fixed

ADJUSTABLE STEERING COLUMN POSITION: Fixed

WINDOW POSITIONS: Left Front: Closed Left Rear: Fixed

Right Front: Open Right Rear: Fixed

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

AMOUNT OF STODDARD SOLVENT IN FUEL TANK:

50 liters (Fuel Tank Usable Capacity)

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

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

Wheelbase = 2612 millimeters

Impact Point is 366 millimeters rearward of front axle centerline

(which is 940 millimeters forward of the wheelbase midpoint)

Actual Impact Point is 364 millimeters rearward of front axle centerline

DATA SHEET 2

TEST VEHICLE SUMMARY OF RESULTS

VEHICLE IDENTIFICATION:

Vehicle Year/Make/Model: 2000 Ford Focus

Body Style: 3-Door Hatchback VIN: 3FAFP3134YR158195

NHTSA No.: CY0209 Test Date: March 31, 2000

Overall Length = 4275 millimeters; Overall Width = 1706 millimeters

VEHICLE TEST WEIGHT (Pre-Test):

Left Front	=	399.0 kg	Left Rear	=	337.0 kg
Right Front	=	364.5 kg	Right Rear	=	289.5 kg
TOTAL FRONT	=	763.5 kg	TOTAL REAR	=	626.5 kg

TOTAL VEHICLE WEIGHT 1390.0 kg

Wheelbase = 2612 millimeters

Longitudinal C.G. from Center of Front Axle = 1177 millimeters

Impact Angle with Respect to Impactor = 90 degrees

ACTUAL IMPACT POINT

Actual Impact Point is 2 mm forward of nominal impact ref. line (Lateral)

Actual Impact Point is 0 mm from nominal impact point (Vertical)

MAXIMUM EXTERIOR STATIC CRUSH:

1. LEVEL 1 (	251 mm above ground)	=	121 millimeters
2. LEVEL 2 (	527 mm above ground)	=	292 millimeters
3. LEVEL 3 (	624 mm above ground)	=	264 millimeters
4. LEVEL 4 (	875 mm above ground)	=	232 millimeters
5. LEVEL 5 (	1403 mm above ground)	=	13 millimeters

Maximum Post-Test Intrusion = 292 millimeters

OCCUPANTS:	Front Passenger:	Rear Passenger:
Dummy Identification	016	268
Restraints Used	3-point active seat belt	3-point active seat belt

INSTRUMENTATION:

Number of Vehicle Data Channels:		=	21
Number of Cameras:	Onboard	=	2
	Offboard	=	7
	TOTAL	=	9

DATA SHEET 3

MOVING DEFORMABLE BARRIER (MDB) SUMMARY

Vehicle: 2000 Ford Focus NHTSA No. CY0209

MDB FACE MANUFACTURER AND SERIAL NUMBER:

Plascore, Inc.: 016C1299-1; 017B1299

POSITION OF IMPACT (MDB) ON MONORAIL:

Crabbed 27° to left

MDB DETAILS:

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

MDB WEIGHT:

Left Front	=	409.5	kg	Left Rear	=	281.5	kg
Right Front	=	372.5	kg	Right Rear	=	299.0	kg
TOTAL FRONT =		782.0	kg	TOTAL REAR	=	580.5	kg
TOTAL MDB WEIGHT =		1362.5	kg				

Impact Angle (MDB C/L to Target Vehicle C/L) = 90 degrees

Impact Speed = 53.4 kph

MAXIMUM STATIC CRUSH OF HONEYCOMB IMPACT FACE:

1. Row A at Center of Bumper Level	=	95	millimeters
2. Row B at Top of Bumper Level	=	57	millimeters
3. Row C at Mid Level	=	79	millimeters
4. Row D at Top of Stack Level	=	127	millimeters

INSTRUMENTATION:

Number of MDB Data Channels = 5

DATA SHEET 4

POST-TEST OBSERVATIONS

Vehicle: 2000 Ford Focus NHTSA No. CY0209

VISIBLE DUMMY CONTACT POINTS:

	LEFT FRONT SID	LEFT REAR SID
Head:	Left side of forehead to rear section on window sill; Left side of face to left shoulder	Top of head to left side header
Upper Torso:	Left shoulder to rear quarter of door trim above arm rest	Left shoulder to rear trim above armrest
Lower Torso:	Left side of pelvis to rear quarter of door trim below arm rest	Left side of pelvis to rear trim below arm rest
Left Knee:	Left knee to center of window crank	Left knee to left B-pillar trim
Right Knee:	Right knee to left knee	Right knee to left knee

DOOR OPENING:

	LEFT DOOR	RIGHT DOOR
Front:	Closed / Inoperable	Closed / Operable
Rear:	N/A	N/A

MDB DISTANCE FROM TARGET IMPACT POINT: Vertical: 0 mm

Horizontal: 2 mm forward

ARM REST LOCATIONS:

Front:

Rear:

SEAT MOVEMENT:

Front: Seat was pushed inboard against center console

Rear: Seat bolster deformed slightly upward

GLAZING DAMAGE:

Windshield: Windshield cracked along its left edge and above the passenger airbag cover

Window: Driver door window and left rear quarter window shattered at impact

PILLAR PERFORMANCE:

No visible tears or separations

SILL SEPARATION:

None

AIR BAG DEPLOYMENT STATUS:

	DRIVER	FRONT PASSENGER	REAR PASSENGER
FRONT	Yes	Yes	N/A
SIDE	N/A	N/A	N/A

OTHER NOTABLE IMPACT EFFECTS:

None

SECTION 4

OCCUPANT AND VEHICLE INFORMATION

DATA SHEET 5

SID INSTRUMENTATION DATA

Vehicle: 2000 Ford Focus

NHTSA No. CY0209

	Front Dummy ID# 016				Rear Dummy ID# 268			
	Pos. Direction		Neg. Direction		Pos. Direction		Neg. Direction	
	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
RIB ACCELERATIONS:								
Upper Rib Lateral . . Y	44.5	39.4	-13.7	70.7	58.9	40.7	-3.4	63.1
Upper Rib Lateral . . Y(R)	44.5	39.4	-14.3	70.7	60.6	40.6	-3.8	98.1
Lower Rib Lateral . Y	53.7	32.5	-10.5	88.8	72.9	40.0	-6.7	97.5
Lower Rib Lateral . Y(R)	53.1	32.5	-10.1	88.8	73.0	40.0	-7.4	98.2
SPINE ACCELERATIONS:								
Lower Lateral . . . . . Y	59.6	34.4	-13.4	65.0	62.9	51.9	-21.0	72.5
Lower Lateral . . . . . Y(R)	59.5	34.4	-14.3	65.0	63.1	45.6	-21.4	72.5
PELVIC ACCELERATIONS:								
Lateral . . . . . Y	85.4	25.6	-12.2	52.5	64.2	41.9	-5.4	98.2
Lateral . . . . . Y(R)	85.5	25.6	-12.6	52.5	72.3	41.9	-6.0	98.2

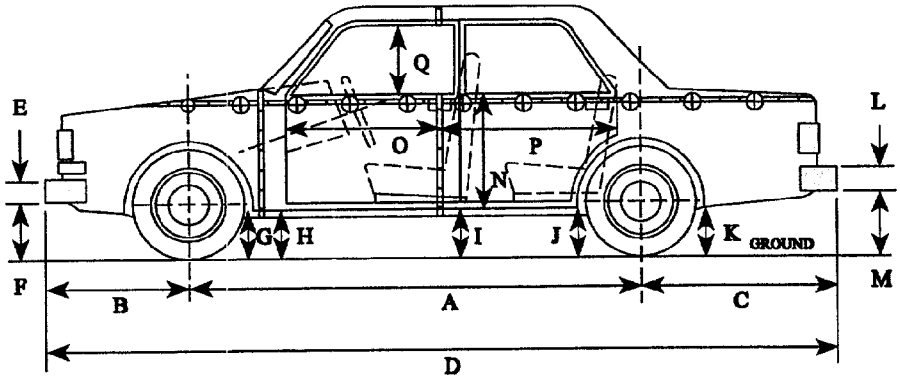
REFERENCE: Positive Direction - Longitudinal (X) = forward
Lateral (Y) = to right
Vertical (Z) = up
Negative Direction - Longitudinal (X) = rearward
Lateral (Y) = to left
Vertical (Z) = down

Note: Above data has been FIR filtered, Y(R) denotes redundant Y direction accelerometer.

DATA SHEET 6

VEHICLE SIDE MEASUREMENTS

Vehicle: 2000 Ford Focus NHTSA No. CY0209



LEFT SIDE VIEW

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

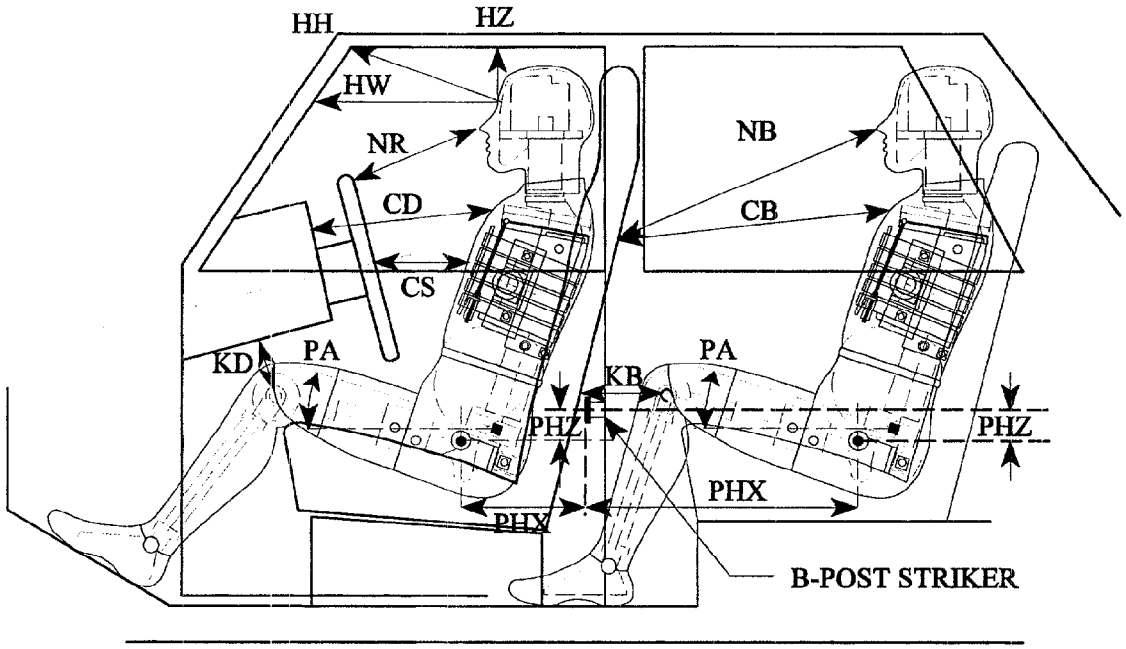
	PRE-TEST (as delivered)	PRE-TEST (as tested)	POST-TEST (as tested)	Δ CHANGE
A	2612	-	2580	-32
B	885	-	877	-8
C	778	-	768	-10
D	4275	-	4255	-20
E	177	-	177	0
F	441	422	443	21
G	210	178	205	27
H	206	173	216	43
I	221	174	195	21
J1	206	155	171	16
J2	223	173	188	15
K	300	241	234	-7
L	216	-	216	0
M	450	392	386	-6
N	676	-	611	-65
O	744	-	744	0
P	589	-	590	1
Q	436	-	427	-9
R	4140	-	4140	0
S	4140	-	4104	-36
T	1706	-	1570	-136

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 LONGITUDINAL CLEARANCE DIMENSIONS

Vehicle: 2000 Ford Focus NHTSA No. CY0209



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

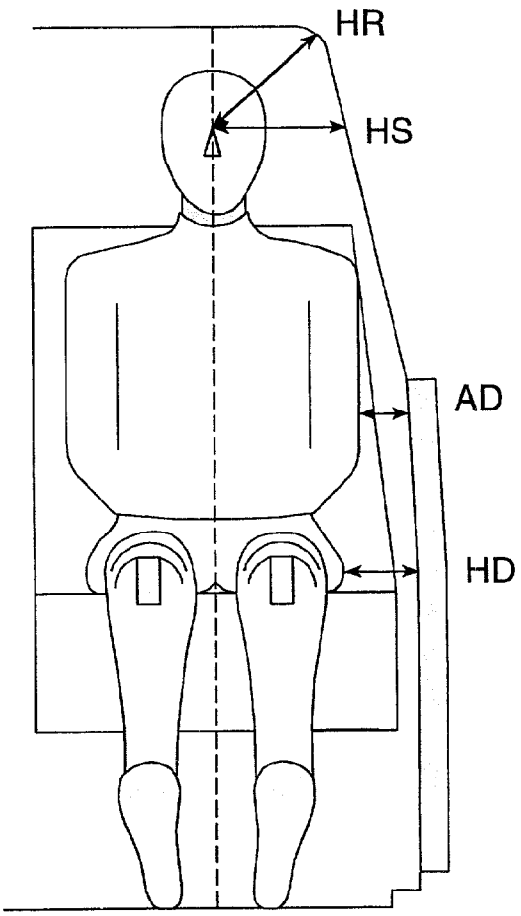
	DRIVER ID# 016	LEFT REAR PASS. ID# 268
HH	402	N/A
HW	704	N/A
HZ	199	175
NR/NB	471	523
CD/CB	550	463
CS	320	N/A
KDL(KDA°)/KBL(KDA°)	169 / (33°)	180 / (25°)
KDR(KBA°)/KBR(KBA°)	162 / (33°)	184 / (26°)
PA°	23.1°	23.7°
PHX	438	115
PHZ	142	115

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 LATERAL CLEARANCE DIMENSIONS

Vehicle: 2000 Ford Focus NHTSA No. CY0209



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

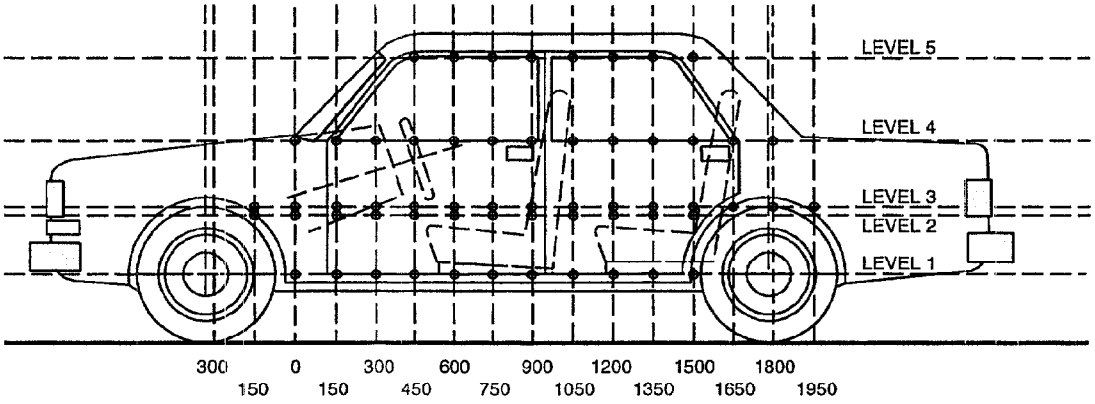
	DRIVER ID # 016	LEFT REAR PASS. ID # 268
HR	212	194
HS	322	316
AD*	LOWER: 107 UPPER: 107	LOWER: 114 UPPER: 96
HD	118	128

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

DATA SHEET 9

VEHICLE SIDE MEASUREMENTS

Vehicle: 2000 Ford Focus NHTSA No. CY0209



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 - 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	=	1403	millimeters
Level 4 @ Window Sill	=	875	millimeters
Level 3 @ Mid Door	=	624	millimeters
Level 2 @ Occupant H-Point	=	527	millimeters
Level 1 @ Sill Top Height	=	251	millimeters

DATA SHEET 10

VEHICLE EXTERIOR CRUSH PROFILES - ALL LEVELS

Vehicle: 2000 Ford Focus

NHTSA No. CY0209

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

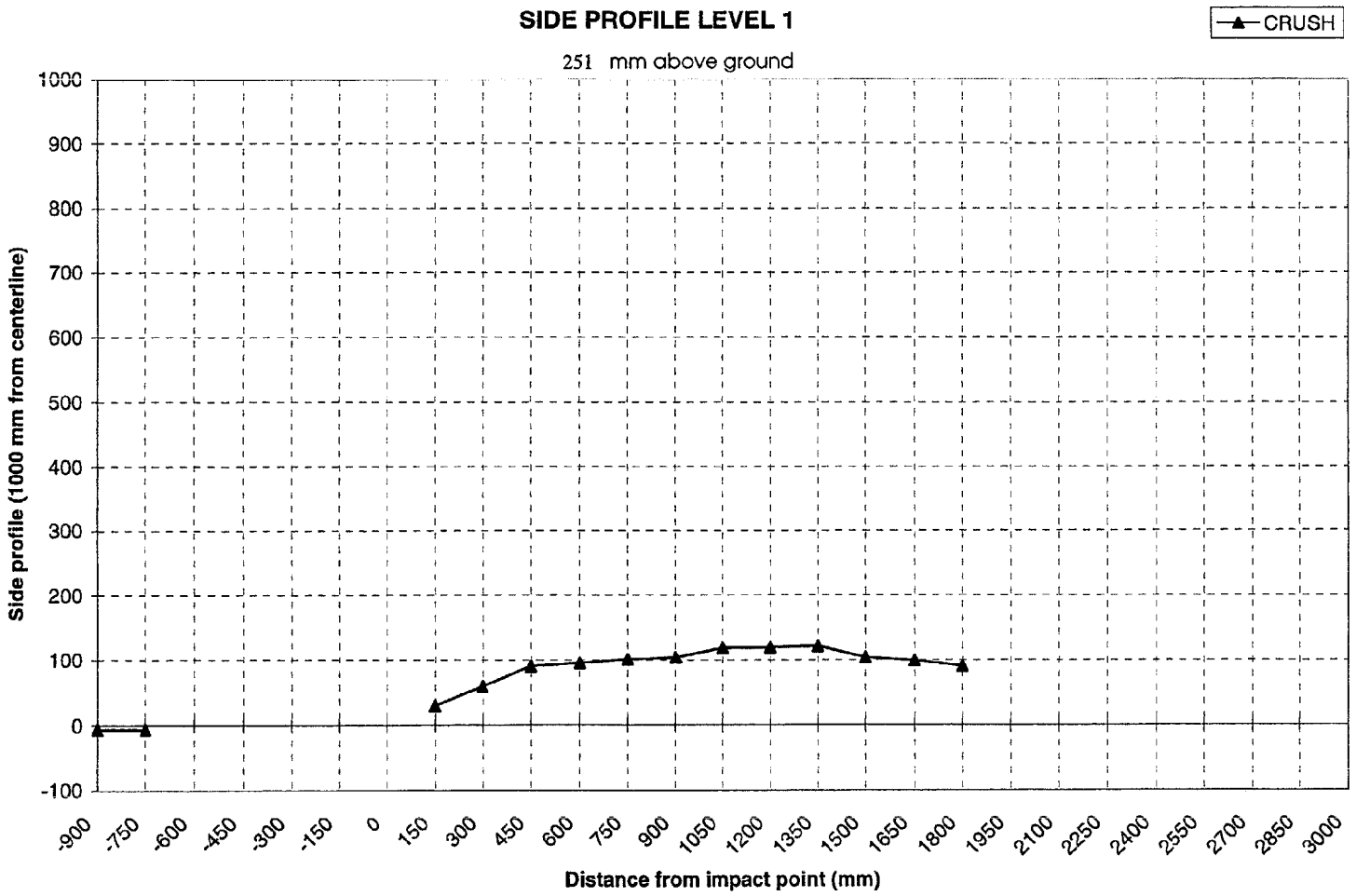
			DISTANCE IN MILLIMETERS (mm) FROM IMPACT POINT																										
LEVEL	HEIGHT (mm)		-900	-750	-600	-450	-300	-150	0	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400	2550	2700	2850	3000
LEVEL 1	251	PRE	280	231	--	--	--	--	--	204	207	207	209	209	211	202	207	207	211	203	185	--	--	--	--	--	--	--	--
SIDE		POST	274	225	--	--	--	--	--	234	267	297	304	310	315	320	326	328	315	302	275	--	--	--	--	--	--	--	--
SILL		CRUSH	-6	-6	N/A	N/A	N/A	N/A	N/A	30	60	90	95	101	104	118	119	121	104	99	90	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEVEL 2	527	PRE	241	201	--	--	--	--	167	173	168	163	163	160	157	158	155	157	159	160	167	166	--	--	--	166	193	--	--
H		POST	229	192	--	--	--	--	182	403	407	412	414	416	418	424	432	434	451	441	377	260	--	--	--	197	210	--	--
POINT		CRUSH	-12	-9	N/A	N/A	N/A	N/A	15	230	239	249	251	256	261	266	277	277	292	281	210	94	N/A	N/A	N/A	31	17	N/A	N/A
LEVEL 3	624	PRE	268	220	187	--	--	165	170	172	170	168	164	162	161	161	160	159	163	163	165	162	157	--	158	179	223	--	--
MID		POST	256	208	173	--	--	175	193	363	361	369	376	374	374	380	386	392	423	427	400	299	239	--	204	208	236	--	--
DOOR		CRUSH	-12	-12	-14	N/A	N/A	10	23	191	191	201	212	212	213	219	226	233	260	264	235	137	82	N/A	46	29	13	N/A	N/A
LEVEL 4	875	PRE	--	--	363	280	250	232	218	212	208	201	198	195	192	191	201	190	191	191	193	195	201	208	216	228	264	--	--
WINDOW		POST	--	--	350	272	244	231	230	279	314	345	355	365	375	387	416	414	423	414	355	303	265	257	247	245	268	--	--
SILL		CRUSH	N/A	N/A	-13	-8	-6	-1	12	67	106	144	157	170	183	196	215	224	232	223	162	108	64	49	31	17	4	N/A	N/A
LEVEL 5	1403	PRE	--	--	--	--	--	--	--	--	--	--	--	520	468	456	454	456	462	474	490	513	550	593	--	--	--	--	--
WINDOW		POST	--	--	--	--	--	--	--	--	--	--	--	521	470	461	459	465	475	479	493	514	551	594	--	--	--	--	--
TOP		CRUSH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	2	5	5	9	13	5	3	1	1	1	N/A	N/A	N/A	N/A	N/A

DATA SHEET 10 (continued)

VEHICLE EXTERIOR CRUSH PROFILES

Vehicle: 2000 Ford Focus

NHTSA No. CY0209

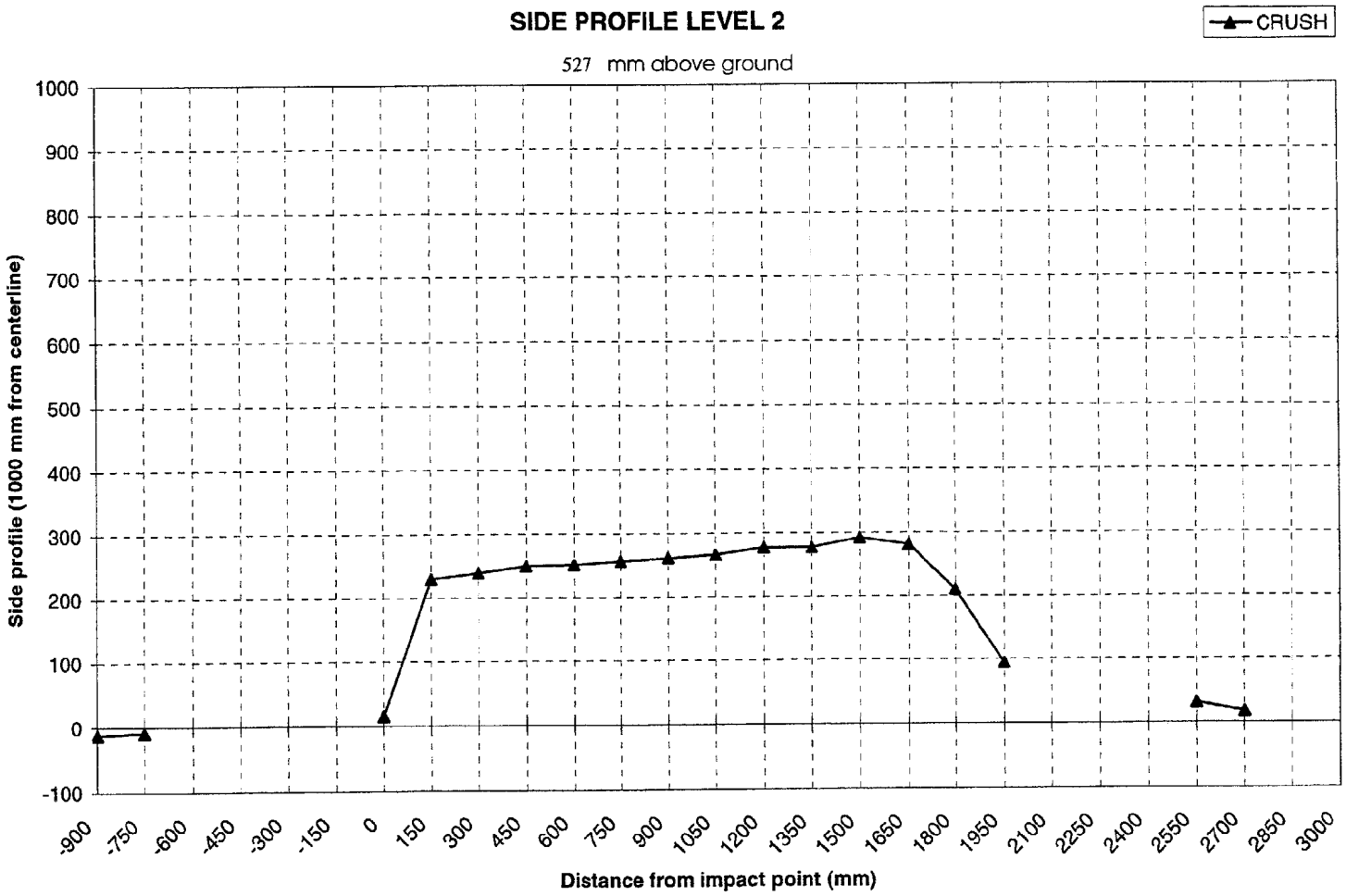


DATA SHEET 10 (continued)

VEHICLE EXTERIOR CRUSH PROFILES

Vehicle: 2000 Ford Focus

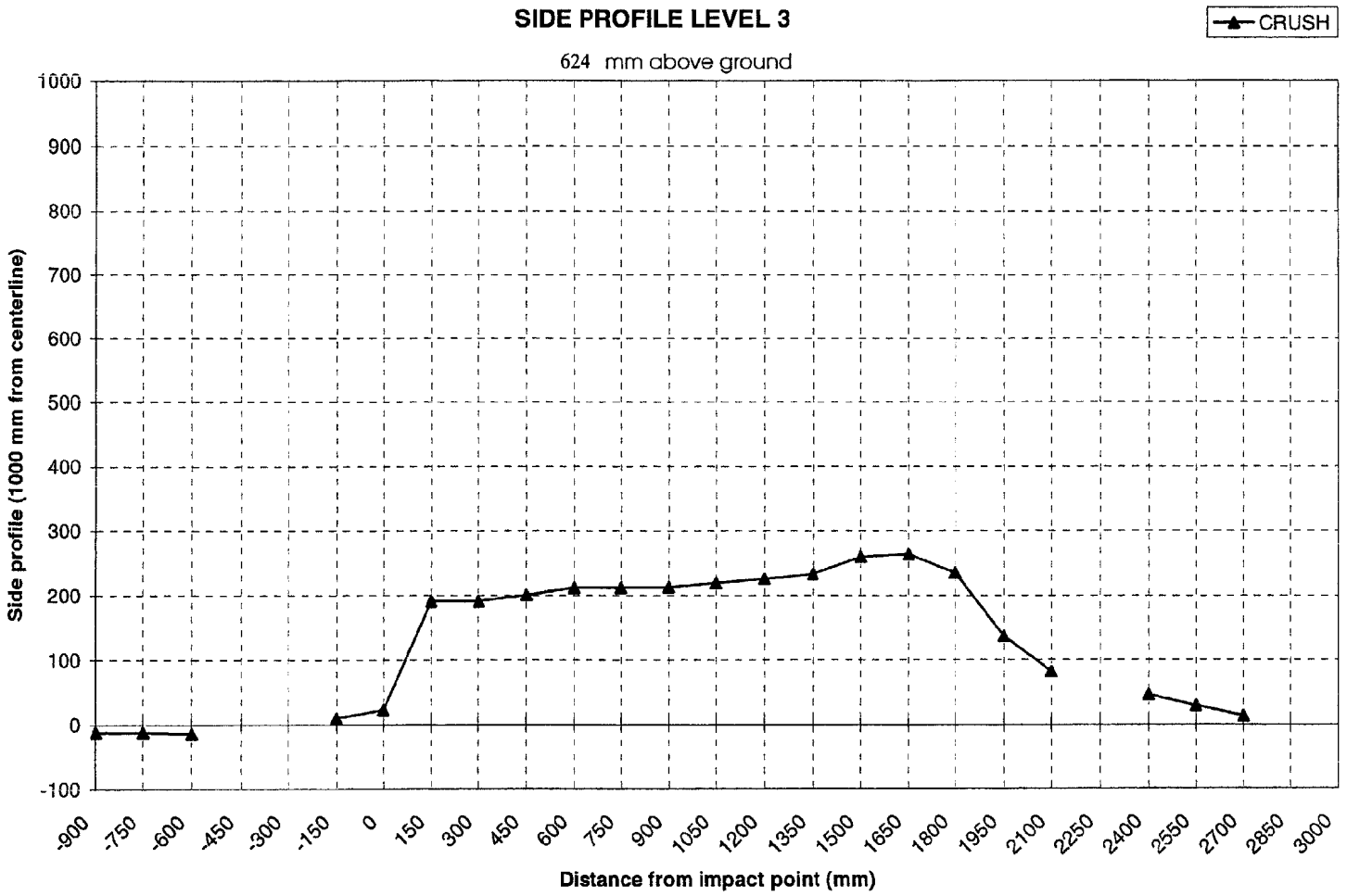
NHTSA No. CY0209



DATA SHEET 10 (continued)

VEHICLE EXTERIOR CRUSH PROFILES

Vehicle: 2000 Ford Focus NHTSA No. CY0209

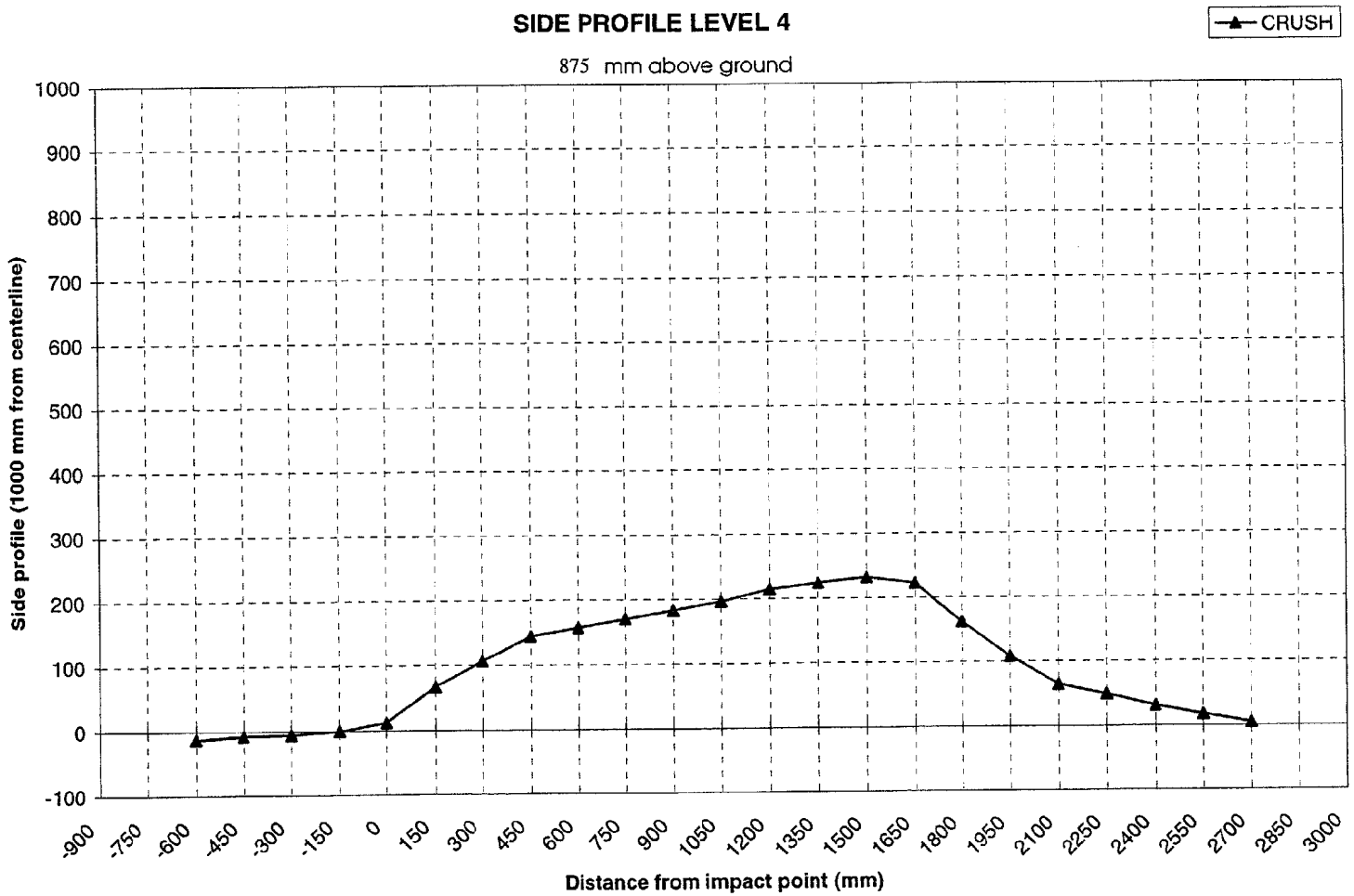


DATA SHEET 10 (continued)

VEHICLE EXTERIOR CRUSH PROFILES

Vehicle: 2000 Ford Focus

NHTSA No. CY0209

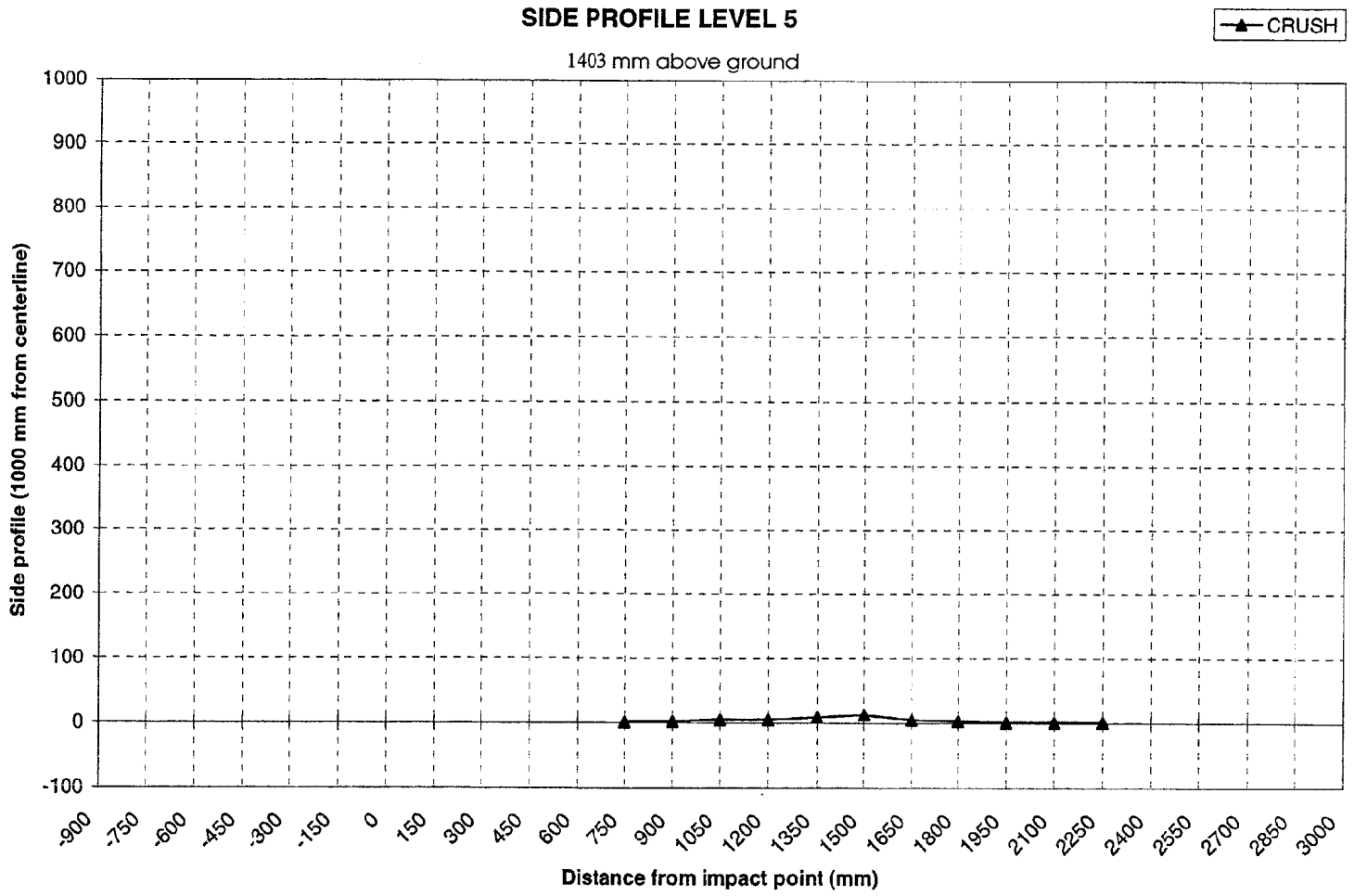


DATA SHEET 10 (continued)

VEHICLE EXTERIOR CRUSH PROFILES

Vehicle: 2000 Ford Focus

NHTSA No. CY0209

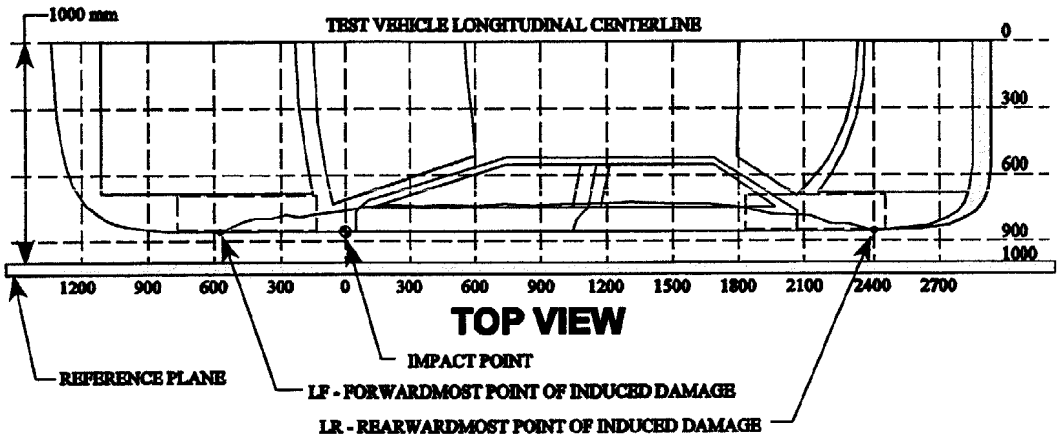


DATA SHEET 11

VEHICLE DAMAGE PROFILE DISTANCES

Vehicle: 2000 Ford Focus

NHTSA No. CY0209



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

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

DPD MEASUREMENTS		POST TEST (mm)	PRETEST (mm)	STATIC CRUSH (mm)
1	(LR = 2700 mm)	210	193	17
2	2130	263	202	61
3	1560	447	159	288
4	990	422	158	264
5	420	411	164	247
6	(LF = -150 mm)	175	165	10

DATA SHEET 12

EXTERIOR STATIC CRUSH FOR IMPACTOR FACE
(Grid as looking at MDB from front)

Vehicle: 2000 Ford Focus

NHTSA No. CY0209

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		PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619
TOP	813	POST	654	621	611	618	616	625	621	617	617	618	622	627	635	647	669	701	746
STACK		CRUSH	35	2	-8	-1	-3	6	2	-2	-2	-1	3	8	16	28	50	82	127
LEVEL 3		PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619
MID	686	POST	625	613	611	623	618	616	618	615	617	620	618	620	622	624	633	659	698
LEVEL		CRUSH	6	-6	-8	4	-1	-3	-1	-4	-2	1	-1	1	3	5	14	40	79
LEVEL 2		PRE	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619	619
TOP	533	POST	676	664	652	649	644	640	639	644	645	646	648	648	649	650	654	661	671
BUMPER		CRUSH	57	45	33	30	25	21	20	25	26	27	29	29	30	31	35	42	52
LEVEL 1		PRE	535	519	518	518	518	518	518	518	518	518	518	518	518	518	518	519	535
MID	432	POST	630	611	601	588	577	572	572	570	571	572	576	576	576	580	588	607	625
BUMPER		CRUSH	95	92	83	70	59	54	54	52	53	54	58	58	58	62	70	88	90

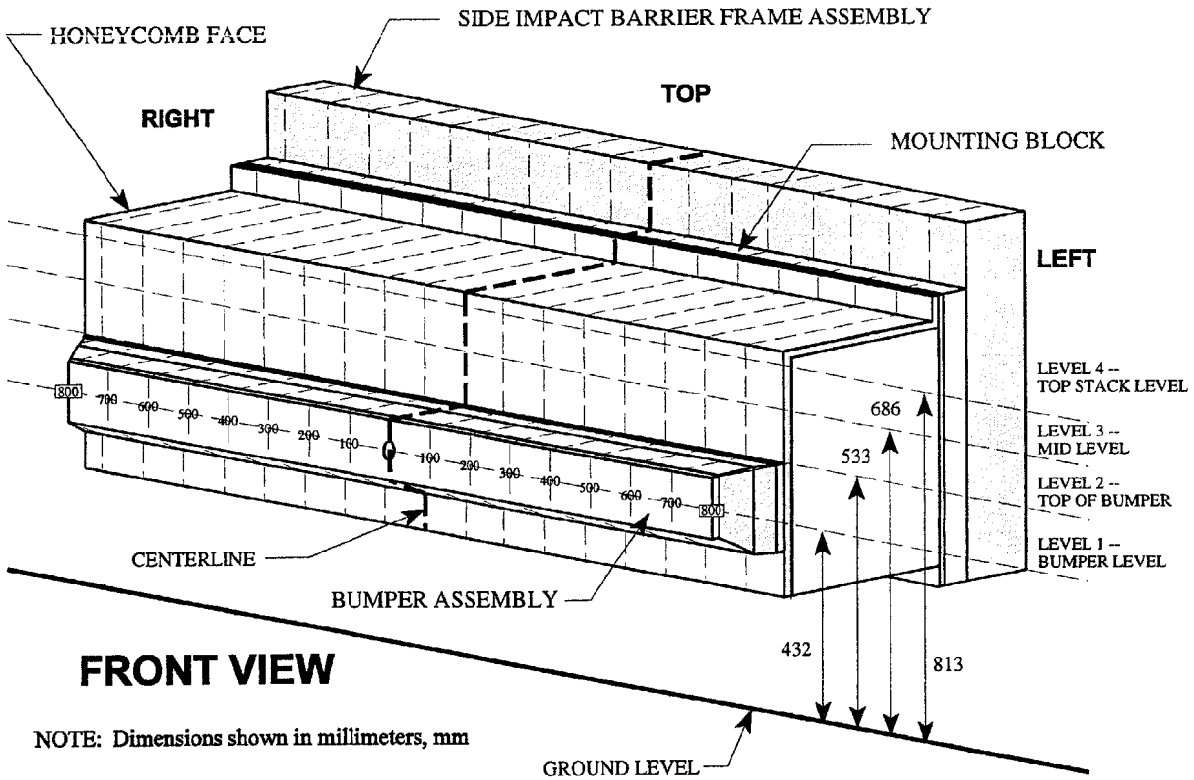
*Heights measured above ground level.

DATA SHEET 12 (continued)

EXTERIOR STATIC CRUSH FOR IMPACTOR FACE

Vehicle: 2000 Ford Focus

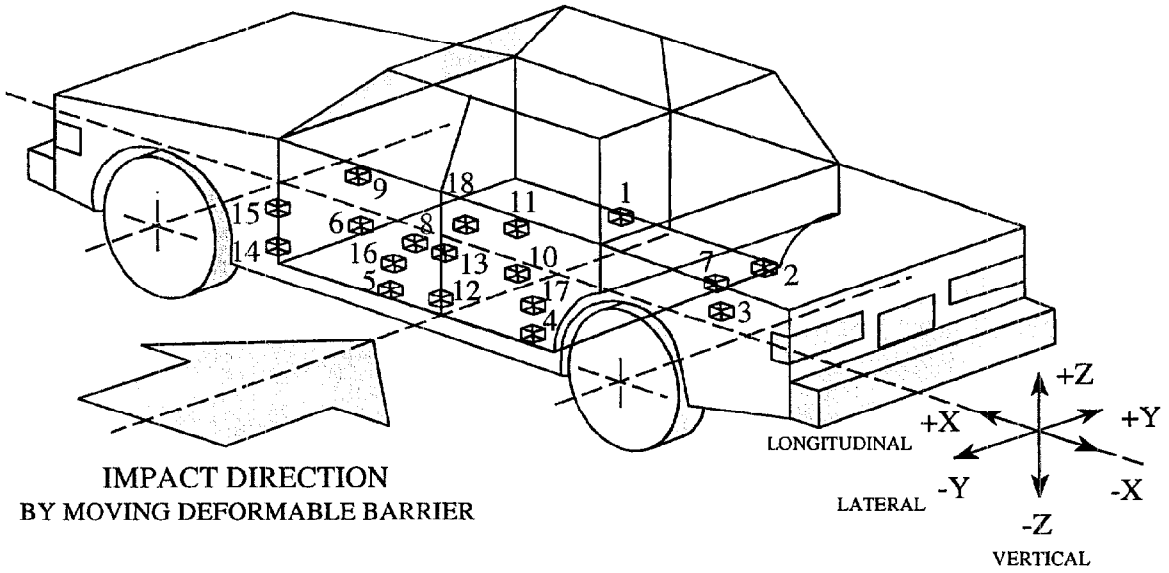
NHTSA No. CY0209



DATA SHEET 13

TEST VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2000 Ford Focus NHTSA No. CY0209



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: 2000 Ford Focus NHTSA No. CY0209

Accel. No.	Location	Coordinates (mm)±3 mm				Long. (x)		Lat. (y)		Vert. (z)		Resultant	
		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	2476	692	351	pos.	2.9	24.1	22.0	13.7	7.6	64.3	22.8	13.7
					neg.	-4.8	16.2	-5.1	79.6	-5.7	16.3	-	-
2	Right Side Sill at Rear Seat	1733	694	349	pos.	3.3	24.0	20.5	31.2	6.5	83.2	21.0	31.1
					neg.	-4.1	16.7	-3.8	101.3	-6.0	18.2	-	-
3	Rear Floorpan Above Axle	929	0	469	pos.	5.4	32.8	23.9	23.0	†	-	26.6 †	23.3
					neg.	-9.6	22.2	-1.8	90.4	†	-	-	-
4	Left Side Sill at Rear Seat	1733	-660	246	pos.	-	-	54.9	5.1	-	-	-	-
					neg.	-	-	-11.3	42.7	-	-	-	-
5	Left Side Sill at Front Seat	2476	-658	263	pos.	-	-	38.8	18.3	-	-	-	-
					neg.	-	-	-8.6	25.9	-	-	-	-
6	Left Front Door on Centerline	-	-	-	pos.	-	-	-	-	-	-	-	-
					neg.	-	-	-	-	-	-	-	-
7	Right Rear Occupant Compartment	1690	328	201	pos.	-	-	20.3	12.0	-	-	-	-
					neg.	-	-	-2.8	77.0	-	-	-	-
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 (+ Up)

**Accelerometer was not requested by COTR.

† Data is invalid from 26 to 44 ms.

DATA SHEET 13 (continued)

VEHICLE ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2000 Ford Focus NHTSA No. CY0209

Accel. No.	Location	Coordinates (mm)±3 mm				Lat. (y)				Vert. (z)		Resultant	
		X*	Y*	Z*		Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)	Max (g)	Time (msec)
12	Left Lower B-Pillar	1671	-653	379	pos.	-	-	242.5 †	5.9	-	-	-	-
					neg.	-	-	-165.9 †	14.0	-	-	-	-
13	Left Middle B-Pillar	1654	-650	754	pos.	-	-	††	-	-	-	-	-
					neg.	-	-	††	-	-	-	-	-
14	Left Lower A-Pillar	2819	-682	430	pos.	-	-	94.2	4.1	-	-	-	-
					neg.	-	-	-44.0	12.4	-	-	-	-
15	Left Middle A-Pillar	2799	-638	1001	pos.	-	-	36.2	16.9	-	-	-	-
					neg.	-	-	-6.8	110.0	-	-	-	-
16	Front Seat Track	2016	-568	323	pos.	-	-	59.3	8.6	-	-	-	-
					neg.	-	-	-23.6	25.7	-	-	-	-
17	Rear Seat Track	1089	-564	439	pos.	-	-	43.8	23.4	-	-	-	-
					neg.	-	-	-1.6	134.0	-	-	-	-
18	Vehicle CG	2238	0	470	pos.	6.0	80.4	79.3	15.7	37.2	21.8	82.0	15.7
					neg.	-13.2	27.7	-22.0	26.8	-33.0	26.2	-	-

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

† Data is clipped.

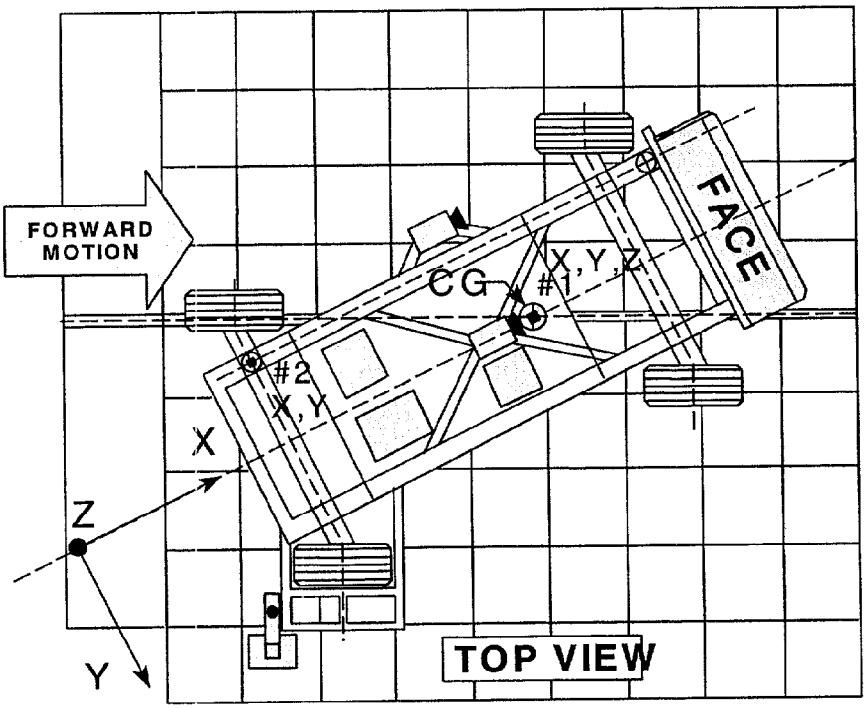
†† Data is invalid after 20 ms.

DATA SHEET 14

MDB ACCELEROMETER LOCATIONS AND DATA SUMMARY

Vehicle: 2000 Ford Focus

NHTSA No. CY0209



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	1.4	97.6	-19.8	43.6
	Lateral..... Y				2.1	56.6	-7.7	29.0
	Vertical..... Z				11.1	35.4	-9.7	20.4
	Resultant..... R				20.7	35.0	-	-
2	Rear Frame Member							
	Longitudinal... X	386	-660	660	1.3	105.6	-18.9	32.4
	Lateral..... Y				3.9	24.9	-1.4	54.3

*Reference: X = Rear Bumper (+ Forward)

Y = Vehicle Centerline (+ To Right)

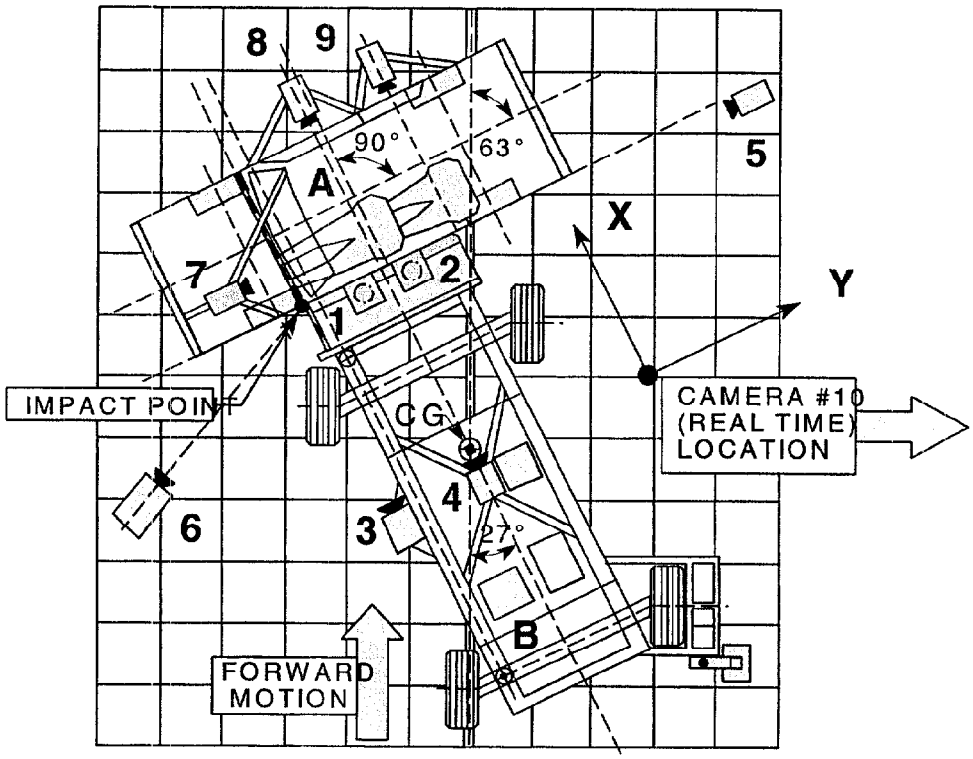
Z = Ground Level (+ Up)

All measurements accurate to within ±3 mm.

DATA SHEET 15

HIGH SPEED CAMERA LOCATIONS AND DATA SUMMARY

Vehicle: 2000 Ford Focus NHTSA No. CY0209



Camera No.	View	Coordinates (millimeters)			Angle (deg.)	Lens (mm)	Film Speed (fps)
		X*	Y*	Z*			
1	Overhead view of test vehicle	144	826	4880	-90	8	1020
2	Overhead closeup view of impact plane	485	1000	4880	-90	12.5	1010
3	MDB onboard closeup view of impact point	-1470	0	847	0	13	1020
4	MDB onboard view of driver dummy	-1140	838	1586	-17	7.5	1020
5	Right side ground level overall view	178	9093	1098	-3	25	1000
6	Left side ground level overall view	-1822	1663	1027	-7	13	1005
7	Test vehicle onboard driver front view	485	-422	1280	-9	13	980
8	Test vehicle onboard driver side view	1662	881	1010	-10	8	1020
9†	Test vehicle onboard passenger side view	4078	1778	1970	-12	8	1020
10	Real time film coverage of test	-	-	-	-	-	24

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

+X = Forward

+Y = To Right

+Z = Upward

† Camera was placed off board the vehicle.

SECTION 5

FUEL SYSTEM INTEGRITY

DATA SHEET 16

FMVSS 301 FUEL SYSTEM INTEGRITY DATA

NHTSA No.: CY0209 TEST DATE: March 31, 2000

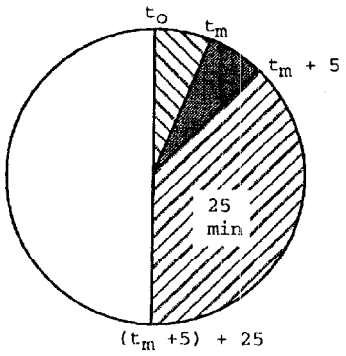
Vehicle Mfgr./Make/Model : 2000 Ford Focus 3-Door Hatchback

****

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 (53.4 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 :

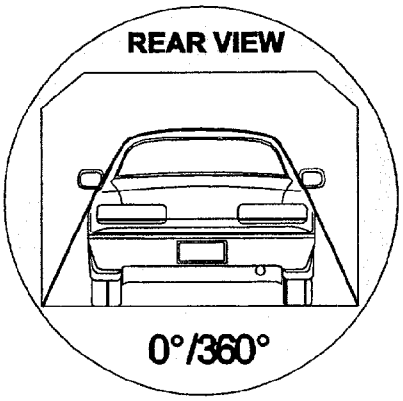
None

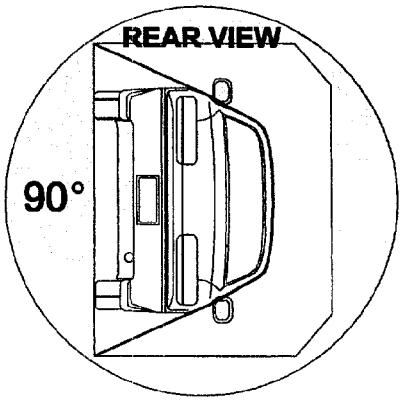
DATA SHEET 17

ROLLOVER DATA

Vehicle: 2000 Ford Focus NHTSA No. CY0209

0 - 90 Degrees





I. DETERMINATION OF SOLVENT COLLECTION TIME PERIOD :

Rollover Fixture 90° Rotation Time	1	minutes	15	seconds
(Spec. Range = 1 to 3 minutes)				
FMVSS 301 Position Hold Time +	5	minutes	0	seconds
TOTAL	6	minutes	15	seconds
Next whole minute interval	7	minutes		

II. FMVSS 301 REQUIREMENTS :

(1) Time Period

First 5 minutes FROM onset of rotation	6th min.	7th min.	8th min. (if required)

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g

III. ACTUAL TEST VEHICLE SOLVENT SPILLAGE:

Trace	0 g	0 g	N/A

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

IV. SOLVENT SPILLAGE LOCATION(S) :

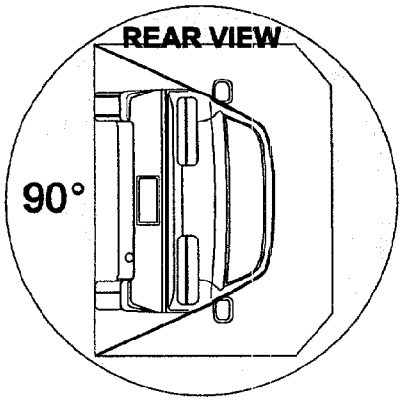
Approximately 10 drops of stoddard fluid spilled from the vehicle during the first 5 minutes from onset of rotation. The stoddard appeared to originate between the fuel tank and vehicle underbody.

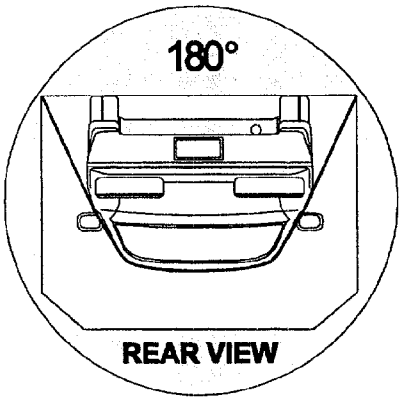
DATA SHEET 17 (continued)

ROLLOVER DATA

Vehicle: 2000 Ford Focus NHTSA No. CY0209

90 - 180 Degrees





I. DETERMINATION OF SOLVENT COLLECTION TIME PERIOD :

Rollover Fixture 90° Rotation Time	1	minutes	7	seconds
(Spec. Range = 1 to 3 minutes)				
FMVSS 301 Position Hold Time +	5	minutes	0	seconds
TOTAL	6	minutes	7	seconds
Next whole minute interval	7	minutes		

II. FMVSS 301 REQUIREMENTS :

(1) Time Period

First 5 minutes FROM onset of rotation	6th min.	7th min.	8th min. (if required)

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g

III. ACTUAL TEST VEHICLE SOLVENT SPILLAGE:

0 g	0 g	0 g	N/A

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

IV. SOLVENT SPILLAGE LOCATION(S) :

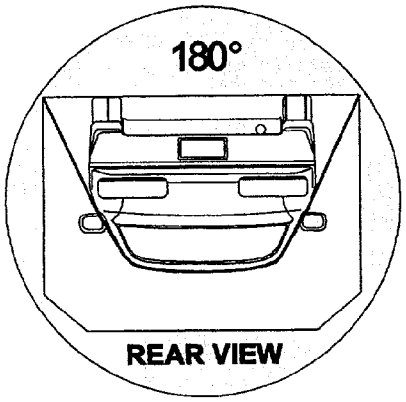
None

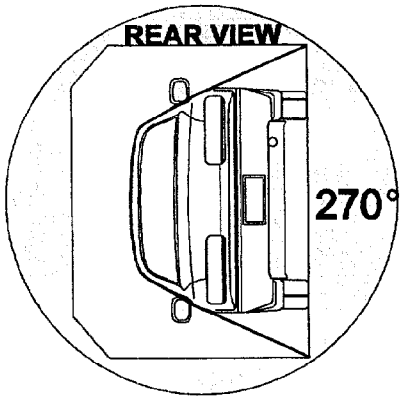
DATA SHEET 17 (continued)

ROLLOVER DATA

Vehicle: 2000 Ford Focus NHTSA No. CY0209

180 - 270 Degrees





I. DETERMINATION OF SOLVENT COLLECTION TIME PERIOD :

Rollover Fixture 90° Rotation Time	1	minutes	5	seconds
(Spec. Range = 1 to 3 minutes)				
FMVSS 301 Position Hold Time +	5	minutes	0	seconds
TOTAL	6	minutes	5	seconds
Next whole minute interval	7	minutes		

II. FMVSS 301 REQUIREMENTS :

(1) Time Period

First 5 minutes FROM onset of rotation	6th min.	7th min.	8th min. (if required)

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g

III. ACTUAL TEST VEHICLE SOLVENT SPILLAGE:

0 g	0 g	0 g	N/A

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

IV. SOLVENT SPILLAGE LOCATION(S) :

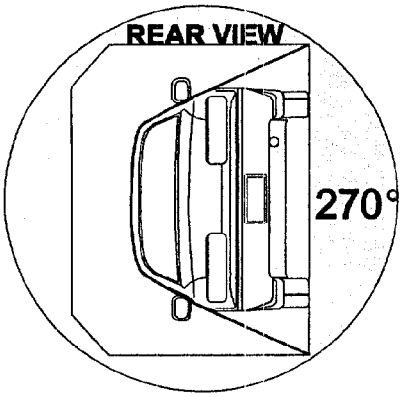
None

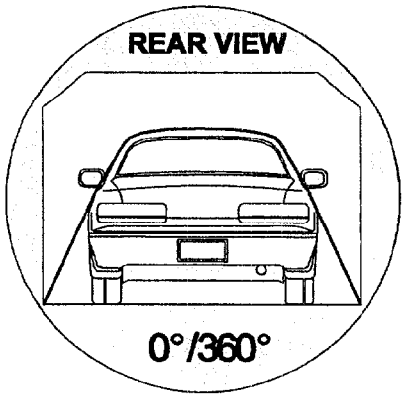
DATA SHEET 17 (continued)

ROLLOVER DATA

Vehicle: 2000 Ford Focus NHTSA No. CY0209

270 - 360 Degrees





I. DETERMINATION OF SOLVENT COLLECTION TIME PERIOD :

Rollover Fixture 90° Rotation Time	1	minutes	8	seconds
(Spec. Range = 1 to 3 minutes)				
FMVSS 301 Position Hold Time +	5	minutes	0	seconds
TOTAL	6	minutes	8	seconds
Next whole minute interval	7	minutes		

II. FMVSS 301 REQUIREMENTS :

(1) Time Period

First 5 minutes FROM onset of rotation	6th min.	7th min.	8th min. (if required)

(2) Maximum Allowable Solvent Spillage

142 g	28 g	28 g	28 g

III. ACTUAL TEST VEHICLE SOLVENT SPILLAGE:

0 g	0 g	0 g	N/A

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

IV. SOLVENT SPILLAGE LOCATION(S) :

None

APPENDIX A

PHOTOGRAPHS

TABLE OF PHOTOGRAPHS

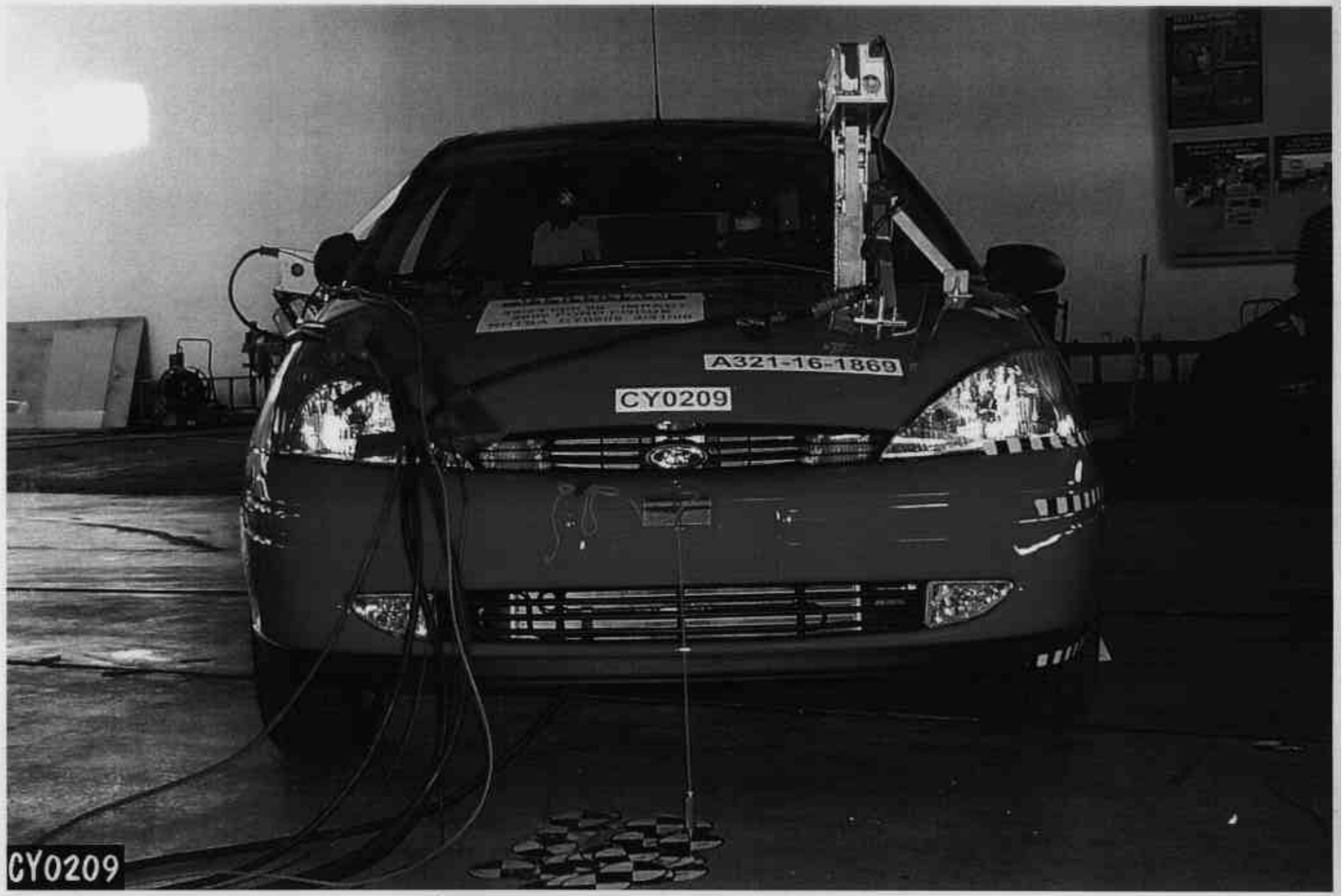


Figure A-1: PRE-TEST FRONTAL VIEW OF TEST VEHICLE

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

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

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

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

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

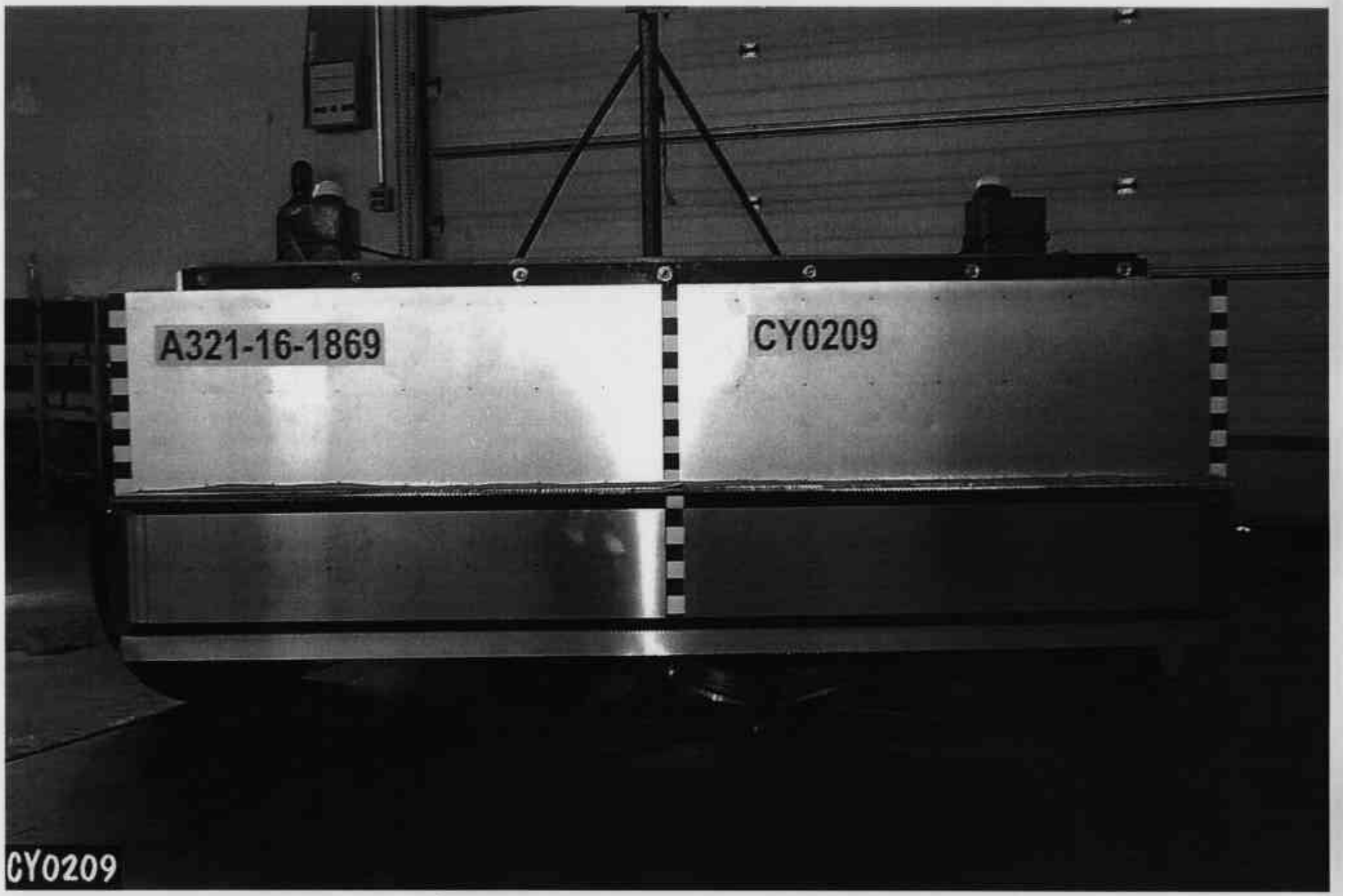


Figure A-7: PRE-TEST FRONTAL VIEW OF IMPACTOR FACE

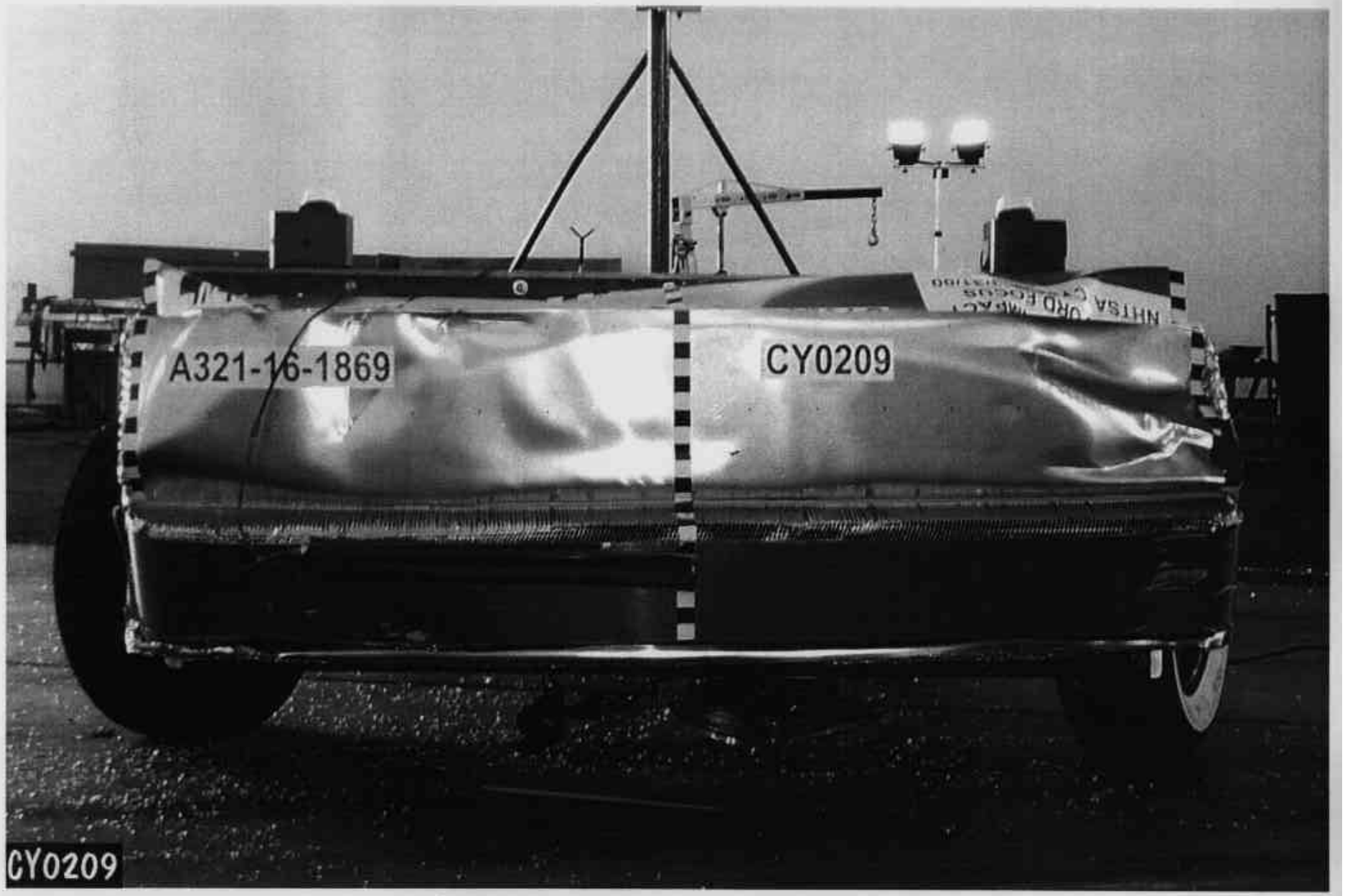


Figure A-8: POST-TEST FRONTAL VIEW OF IMPACTOR FACE

Figure A-9: PRE-TEST LEFT SIDE VIEW OF IMPACTOR FACE

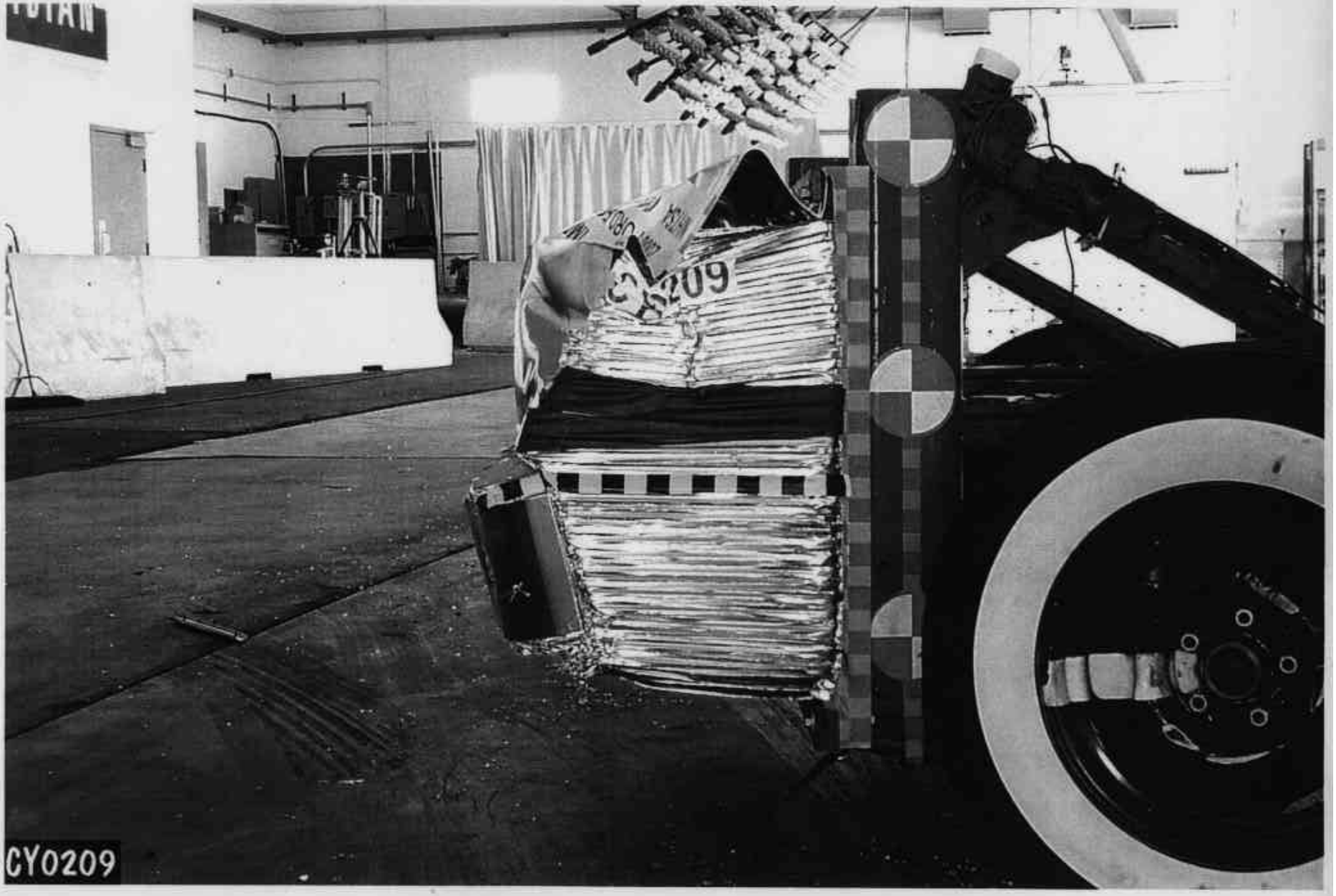


Figure A-10: POST-TEST LEFT SIDE VIEW OF IMPACTOR FACE

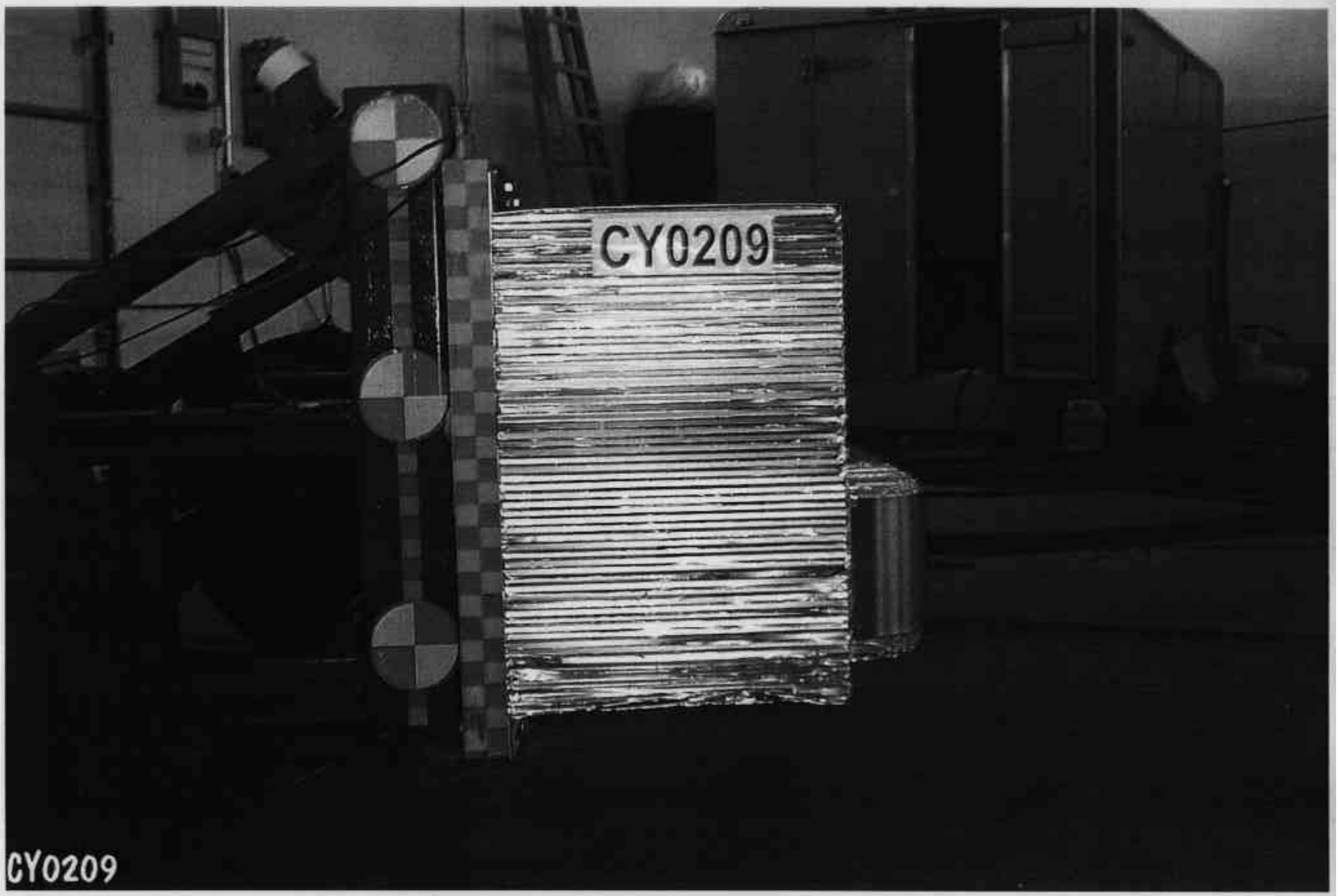


Figure A-11: PRE-TEST RIGHT SIDE VIEW OF IMPACTOR FACE

Figure A-12: POST-TEST RIGHT SIDE VIEW OF IMPACTOR FACE

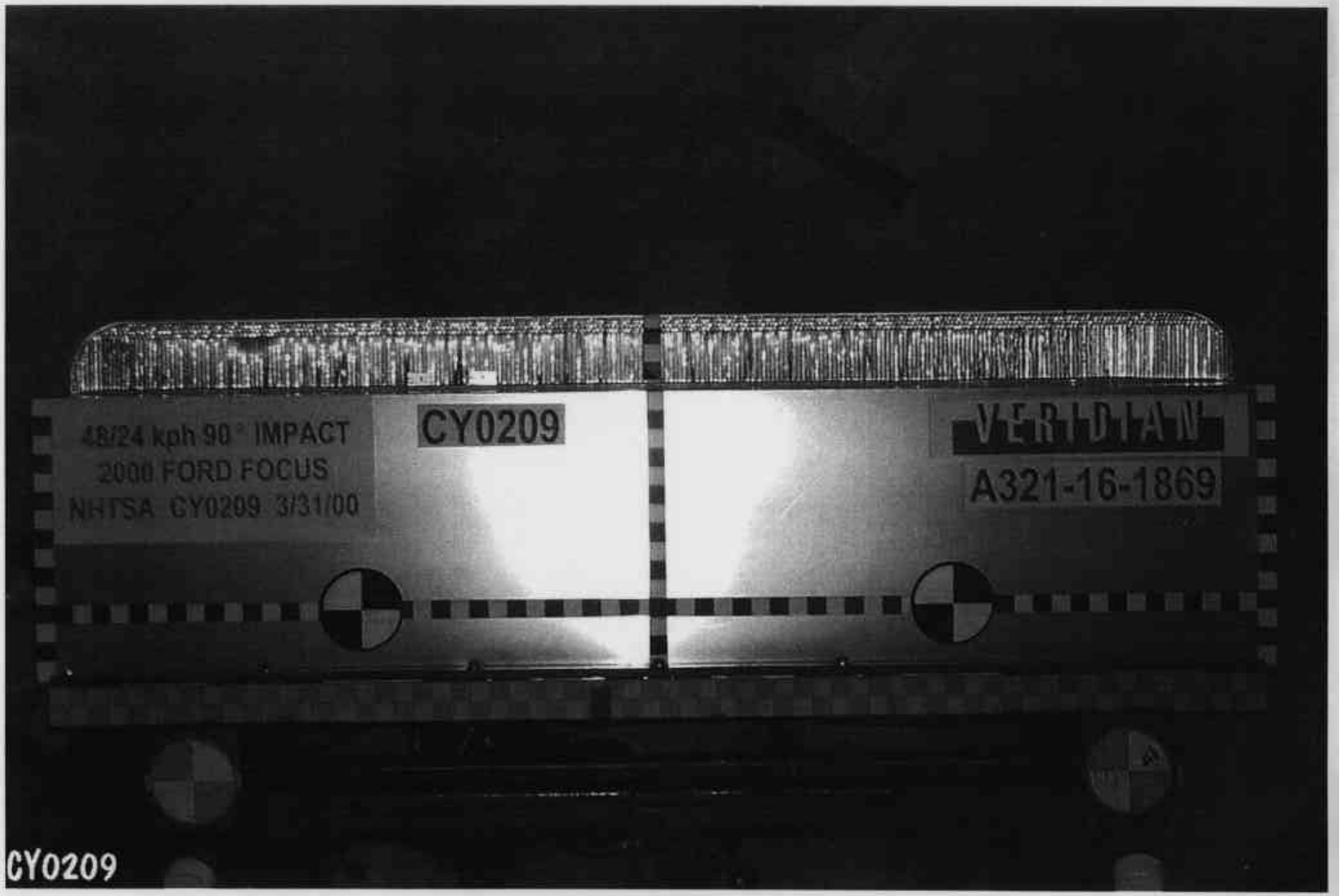


Figure A-13: PRE-TEST TOP VIEW OF IMPACTOR FACE

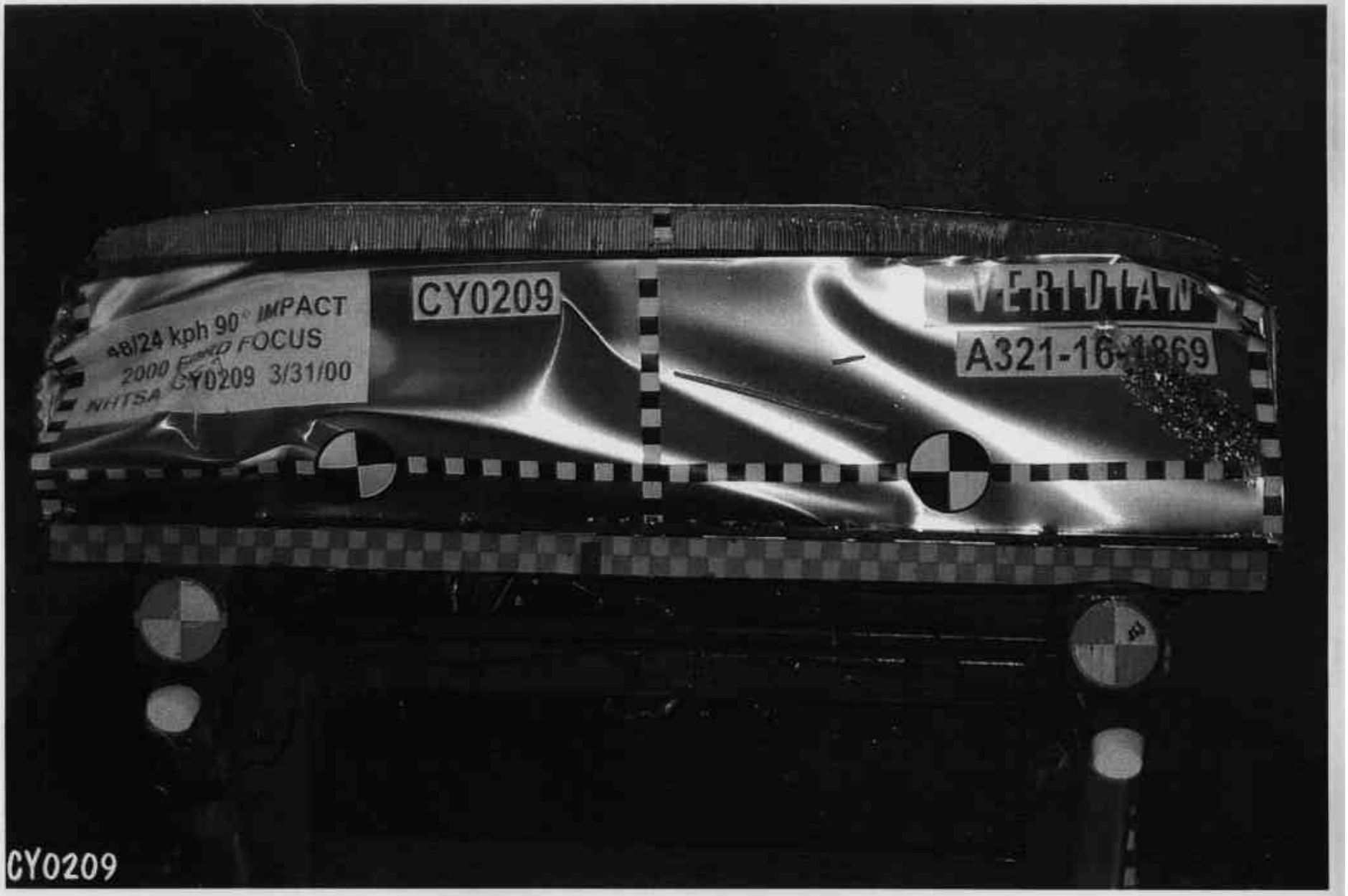


Figure A-14: POST-TEST TOP VIEW OF IMPACTOR FACE

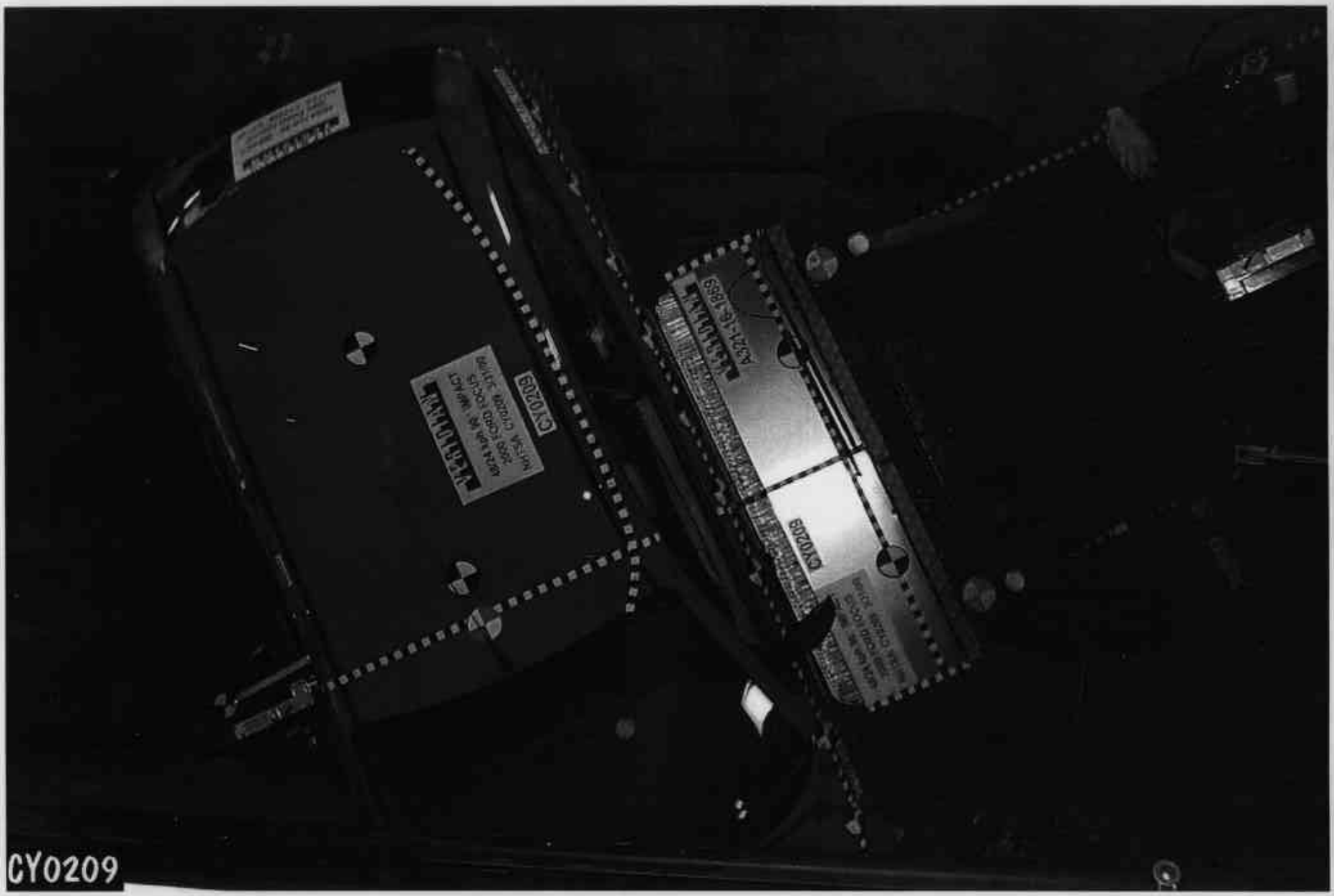


Figure A-15: PRE-TEST OVERHEAD VIEW OF ALIGNED MDB AND VEHICLE

8502-16

Figure A-16: POST-TEST OVERHEAD VIEW OF MDB AND VEHICLE

Figure A-17: PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID

Figure A-18: POST-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF FRONT SID

Figure A-19: PRE-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF REAR SID

Figure A-20: POST-TEST RIGHT OCCUPANT COMPARTMENT VIEW OF REAR SID

Figure A-21: PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID

Figure A-22: POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF FRONT SID

Figure A-23: PRE-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID

Figure A-24: POST-TEST LEFT OCCUPANT COMPARTMENT VIEW OF REAR SID

Figure A-25: PRE-TEST FRONT INTERIOR TRIM

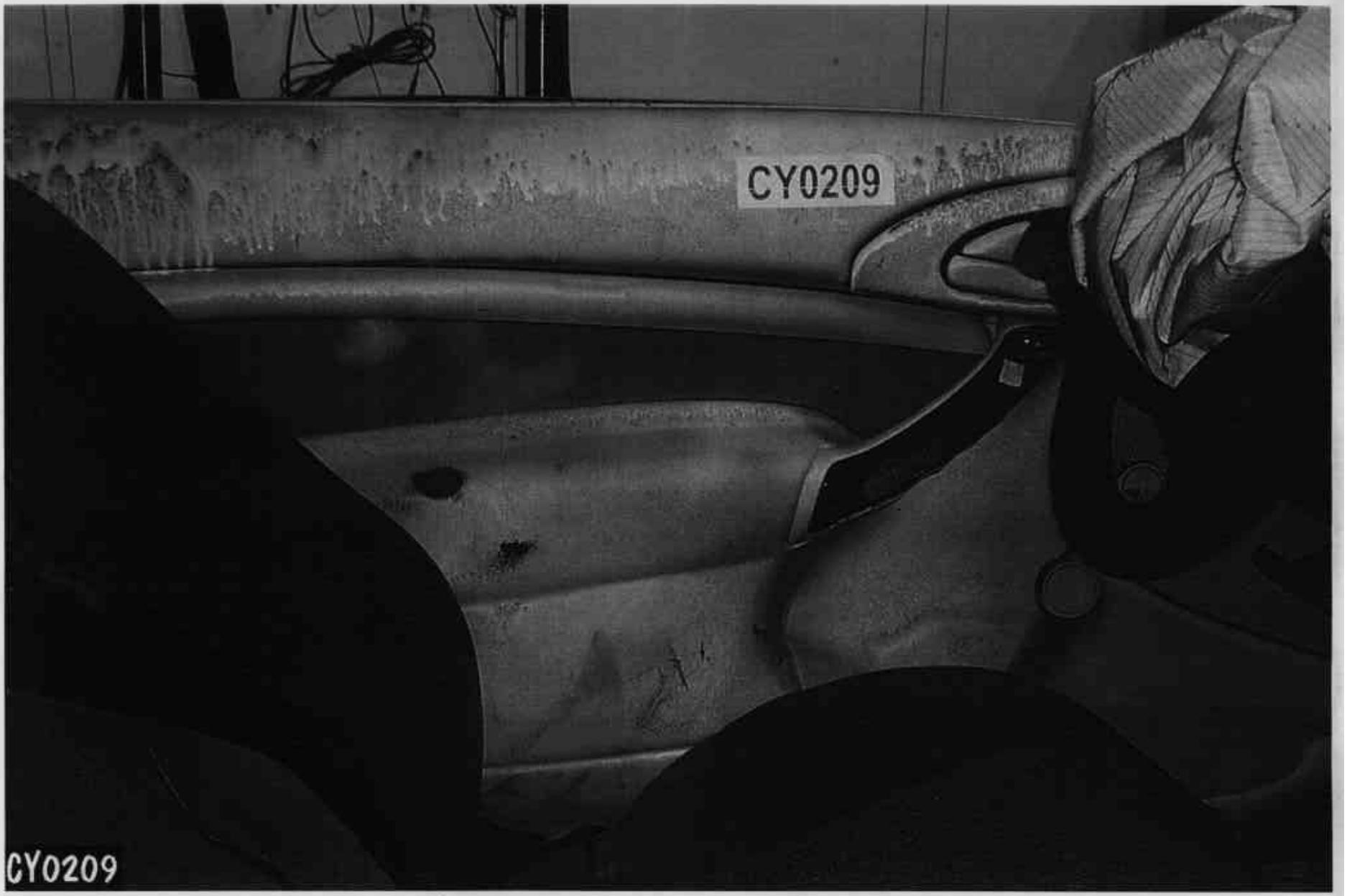


Figure A-26: POST-TEST FRONT INTERIOR TRIM SHOWING SID IMPACT LOCATIONS

Figure A-27: PRE-TEST REAR INTERIOR TRIM

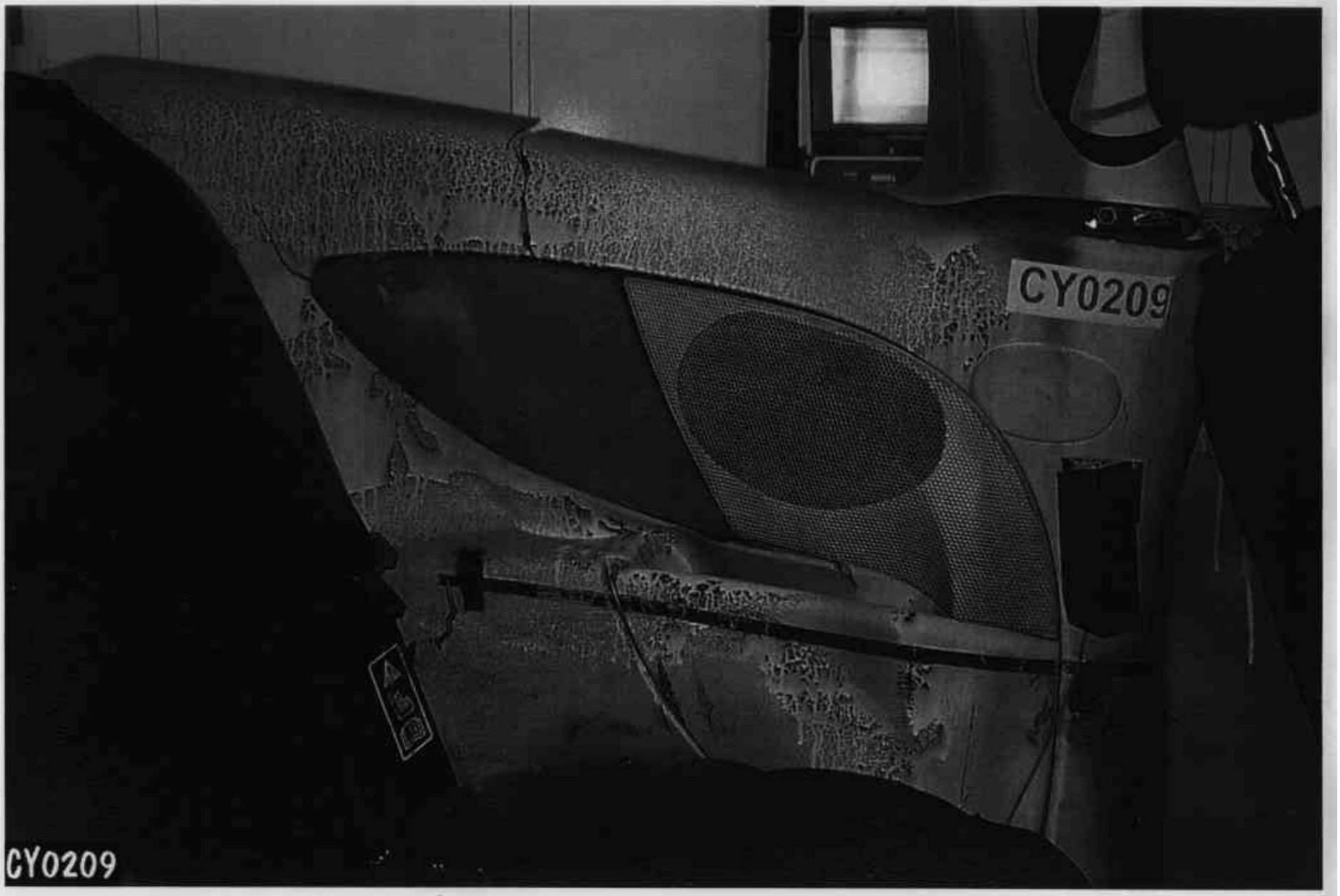


Figure A-28: POST-TEST REAR INTERIOR TRIM SHOWING SID IMPACT LOCATIONS

Figure A-29: PRE-TEST LEFT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION

Figure A-30: PRE-TEST RIGHT SIDE VIEW OF MDB WITH IMPACTOR FACE IN POSITION

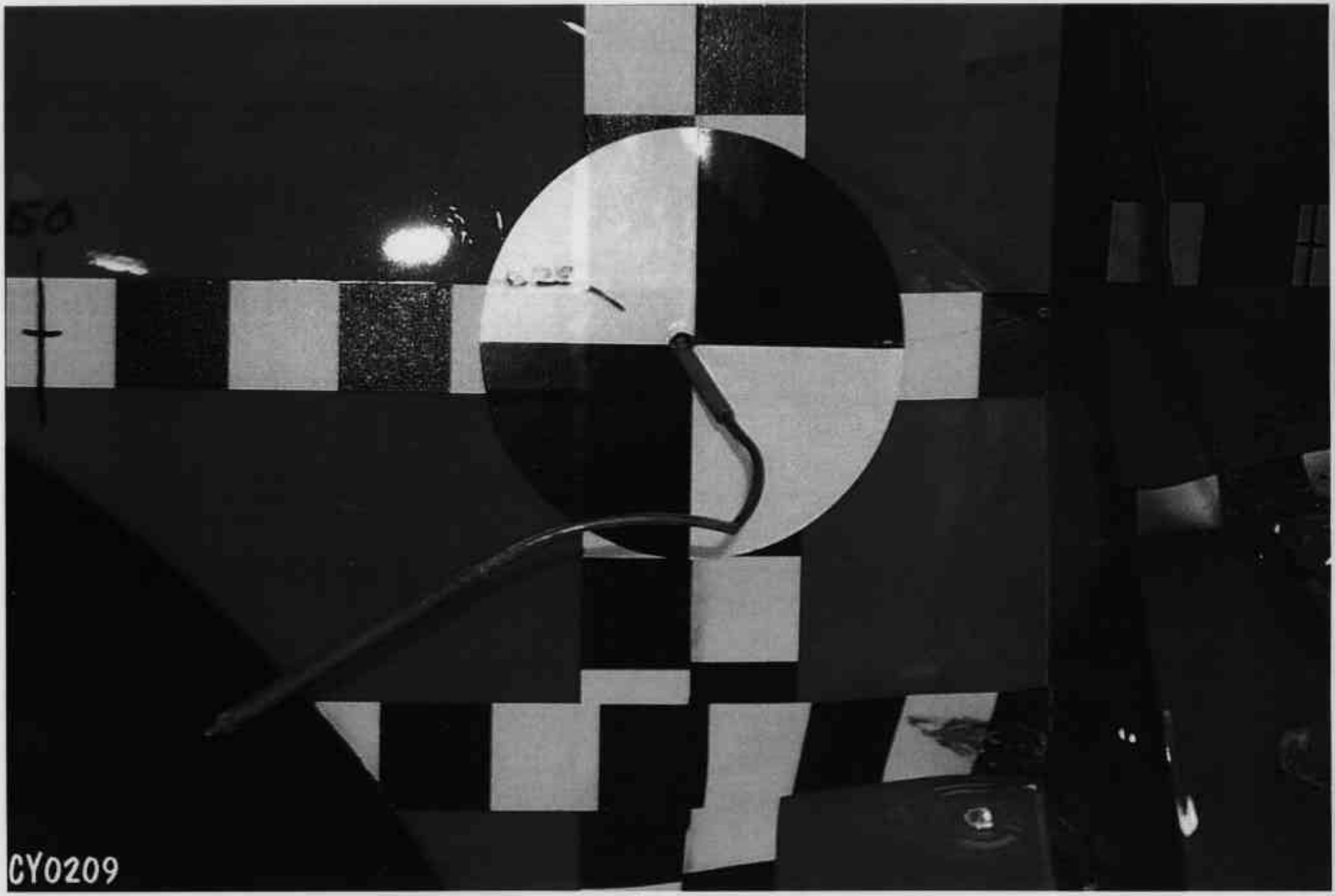


Figure A-31: POST-TEST CLOSE-UP VIEW OF IMPACT POINT TARGET

Figure A-32: CLOSE-UP VIEW OF VEHICLE'S CERTIFICATION LABEL

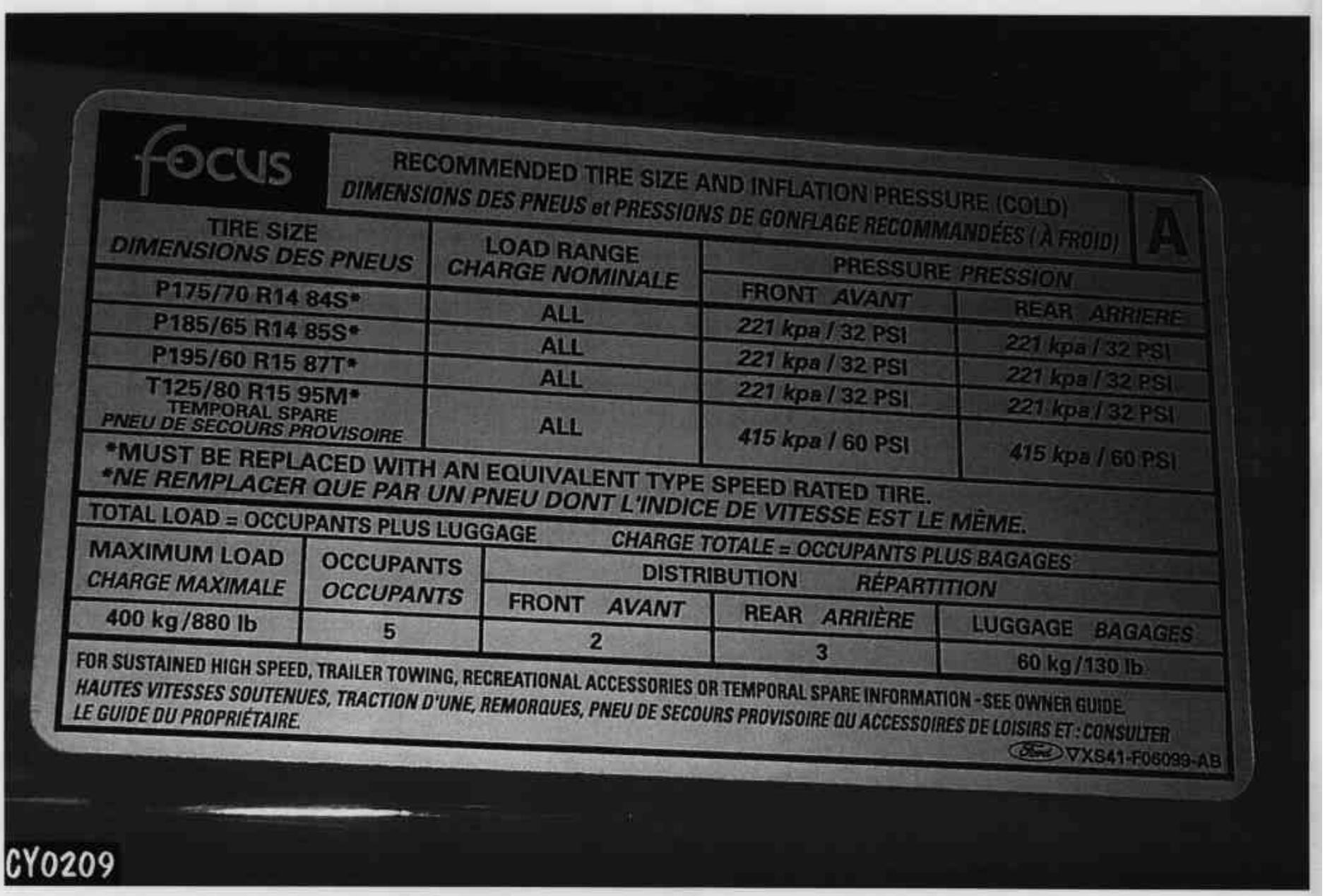


Figure A-33: CLOSE-UP VIEW OF VEHICLE'S TIRE PLACARD LABEL

Figure A-34: IMPACT PHOTO

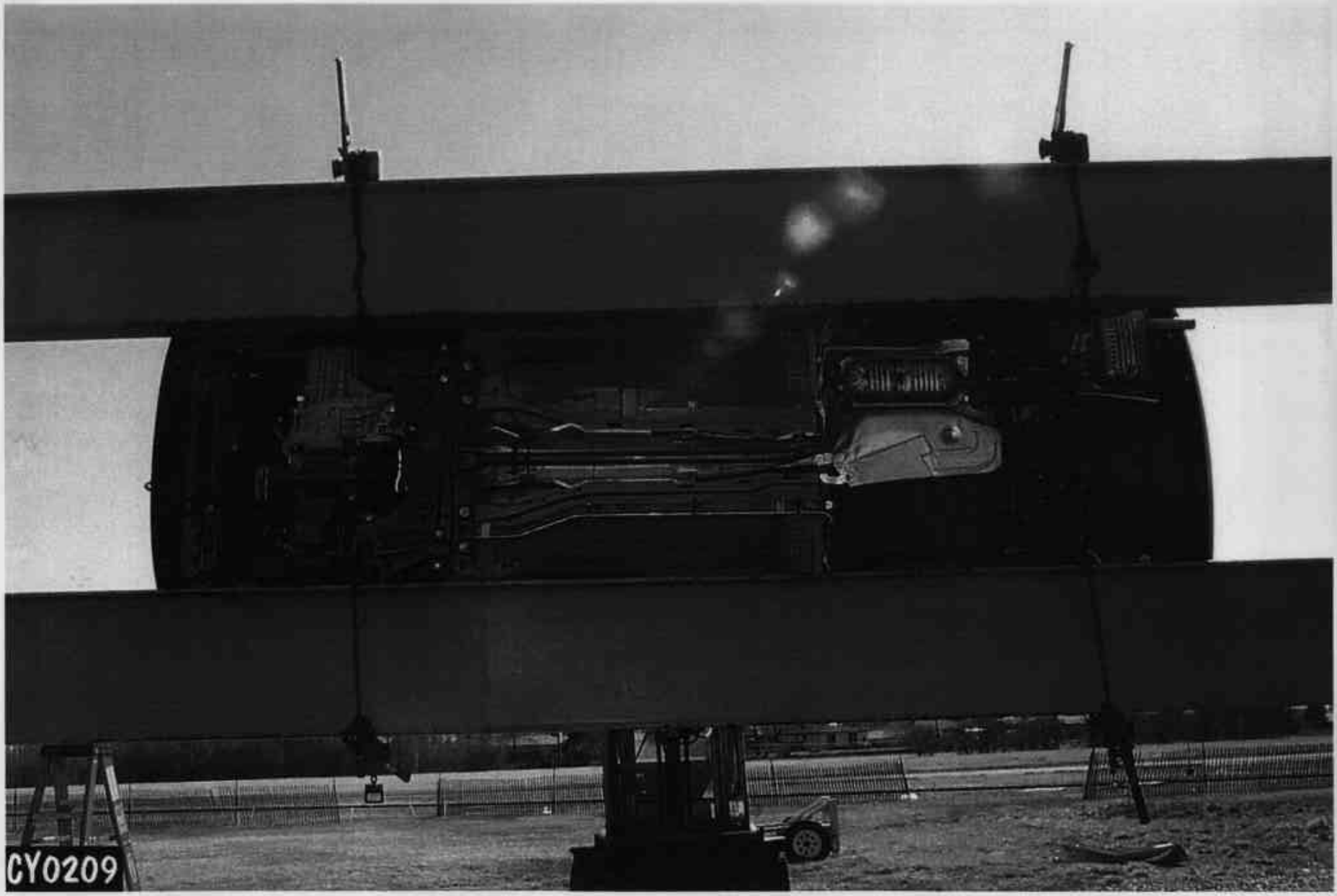


Figure A-35: ROLLOVER 90 DEGREES

Figure A-36: ROLLOVER 180 DEGREES

Figure A-37: ROLLOVER 270 DEGREES

Figure A-38: ROLLOVER 360 DEGREES

APPENDIX B

VEHICLE, MDB AND SID RESPONSE DATA

TABLE OF DATA PLOTS

DRIVER AND PASSENGER DUMMY INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 1000
INTEGRATION DATA - FILTER CLASS 180

DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS
ACCELERATION DATA - FIR FILTERED

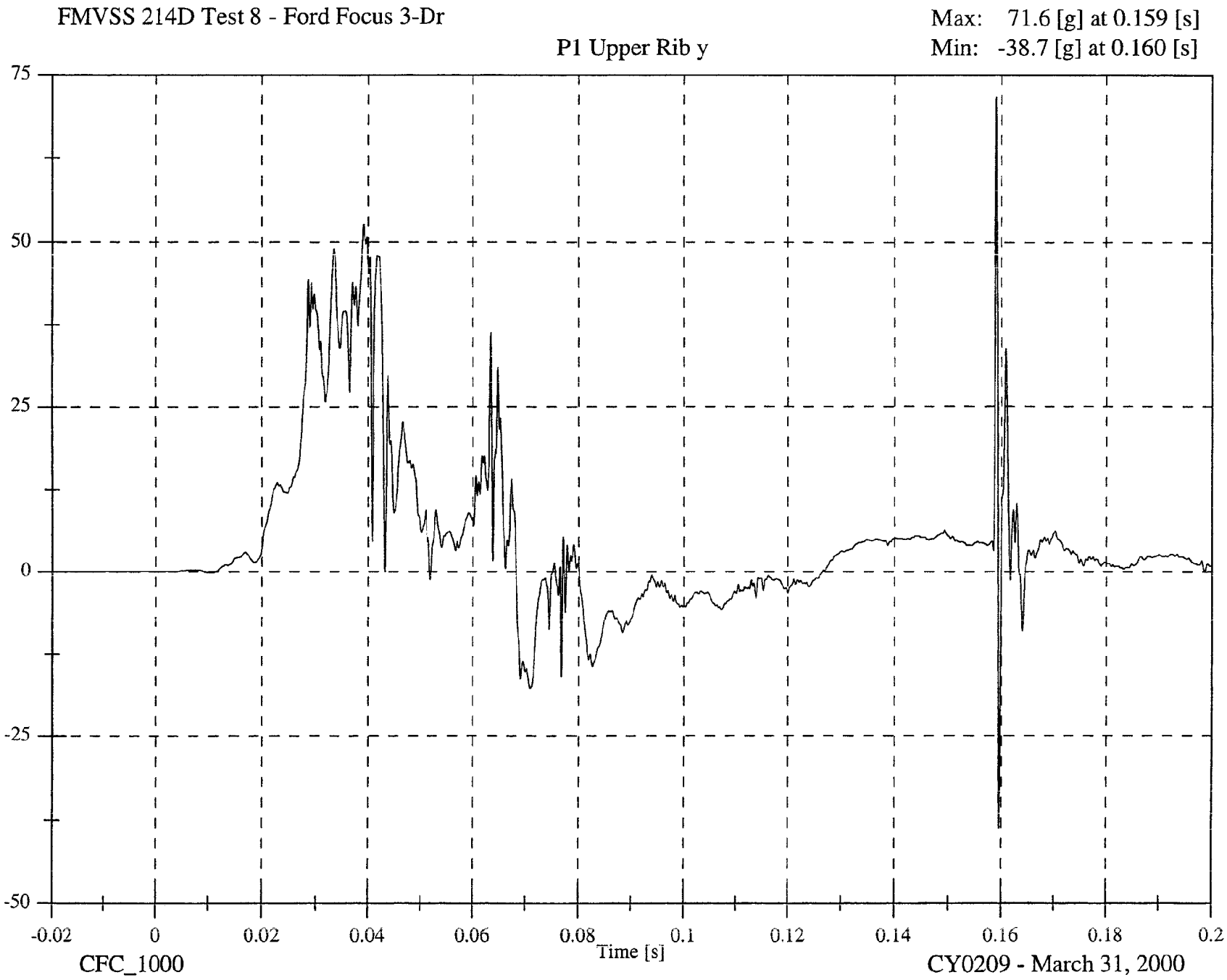
TEST VEHICLE INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

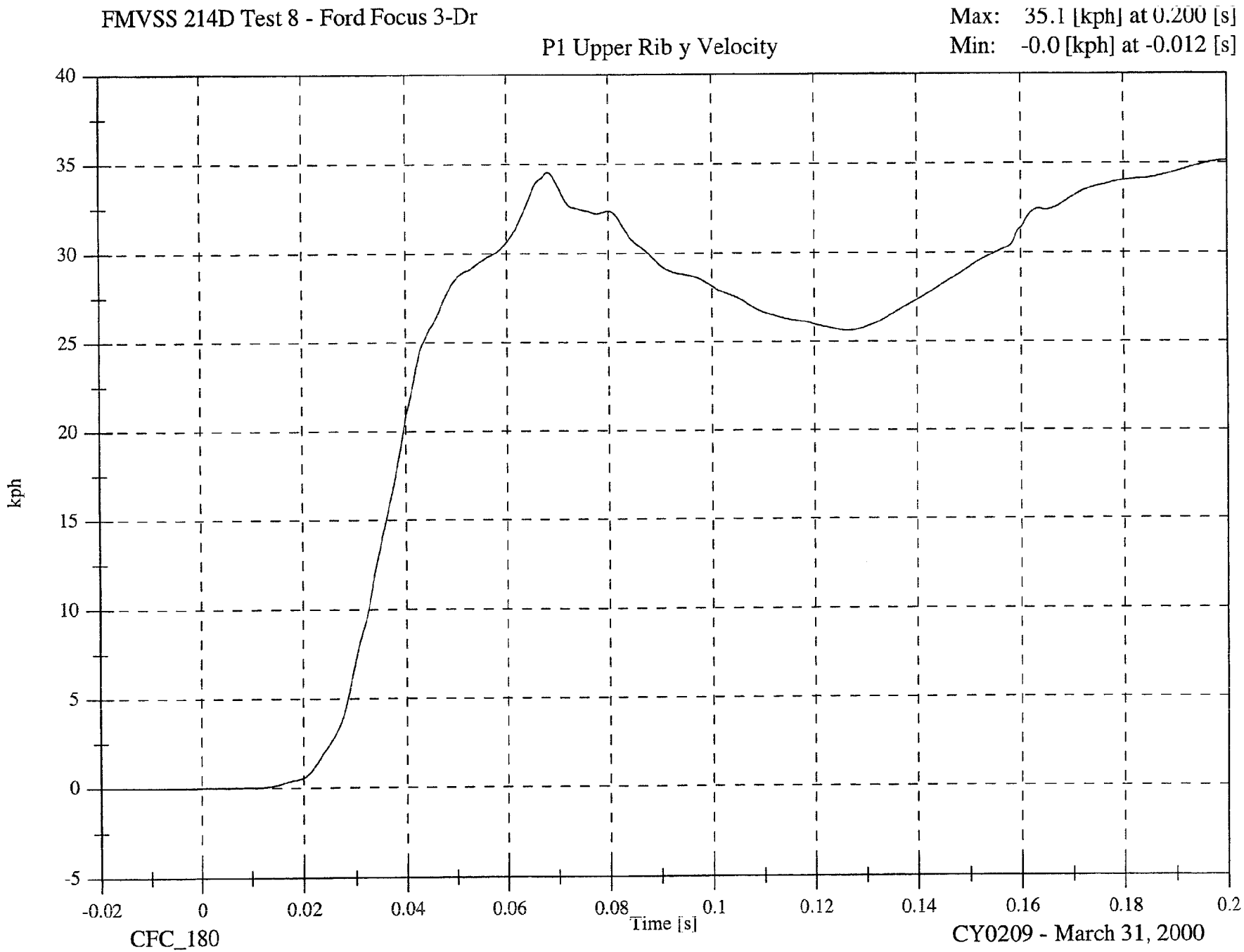
TEST VEHICLE INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

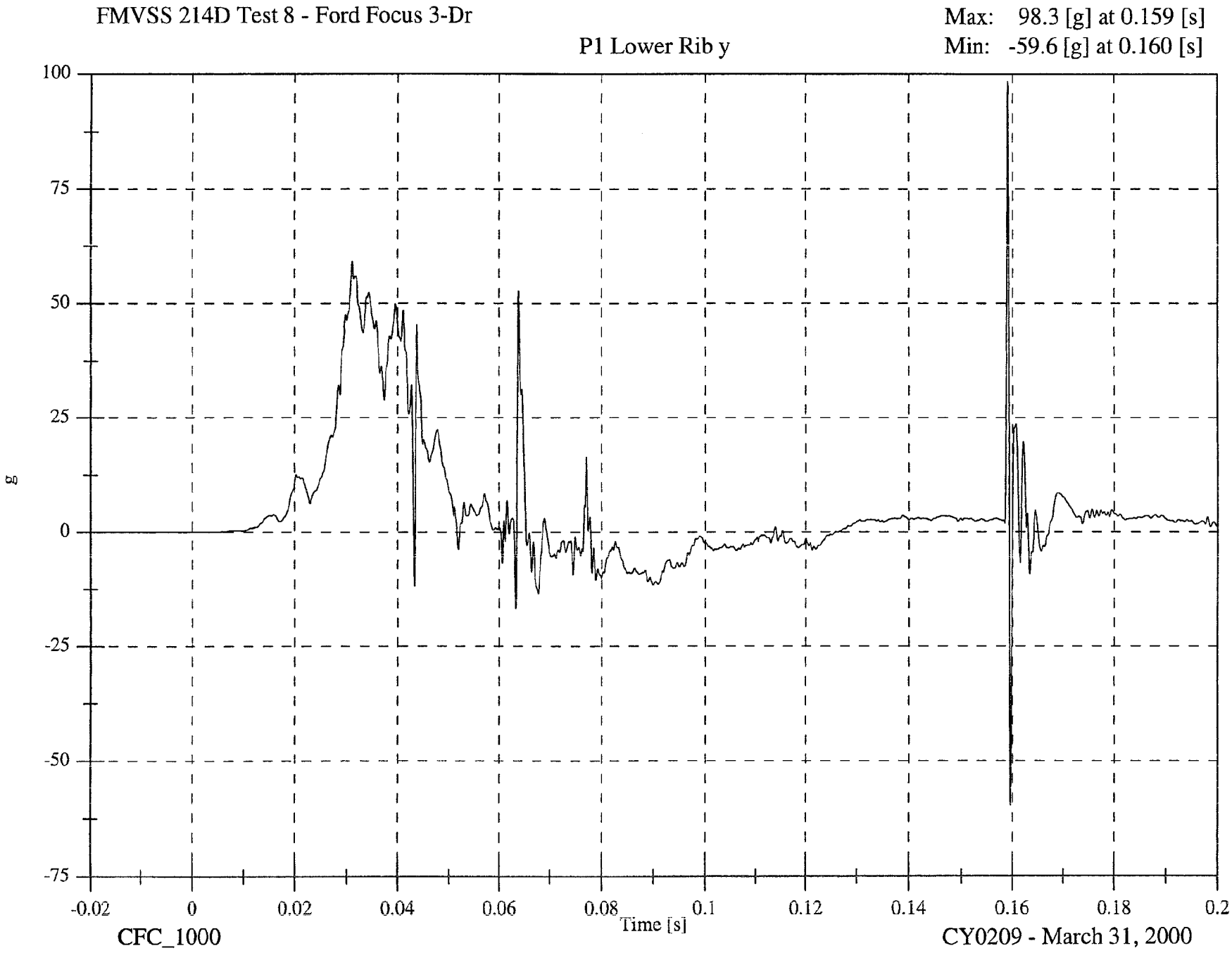
MDB INSTRUMENTATION PLOTS
ACCELERATION DATA - FILTER CLASS 60
INTEGRATION DATA - FILTER CLASS 180

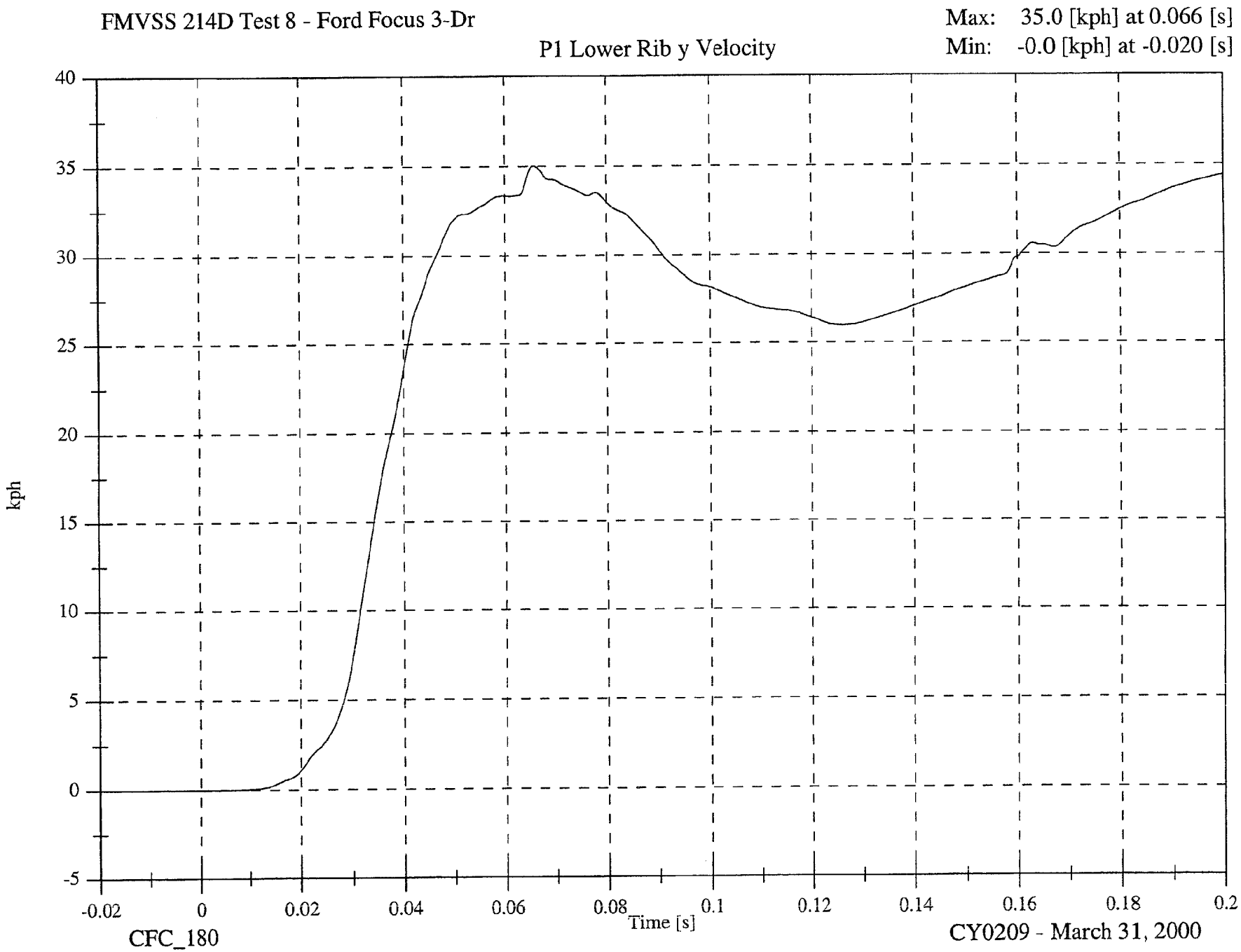
DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS (REDUNDANT)
ACCELERATION DATA - FILTER CLASS 1000
INTEGRATION DATA - FILTER CLASS 180

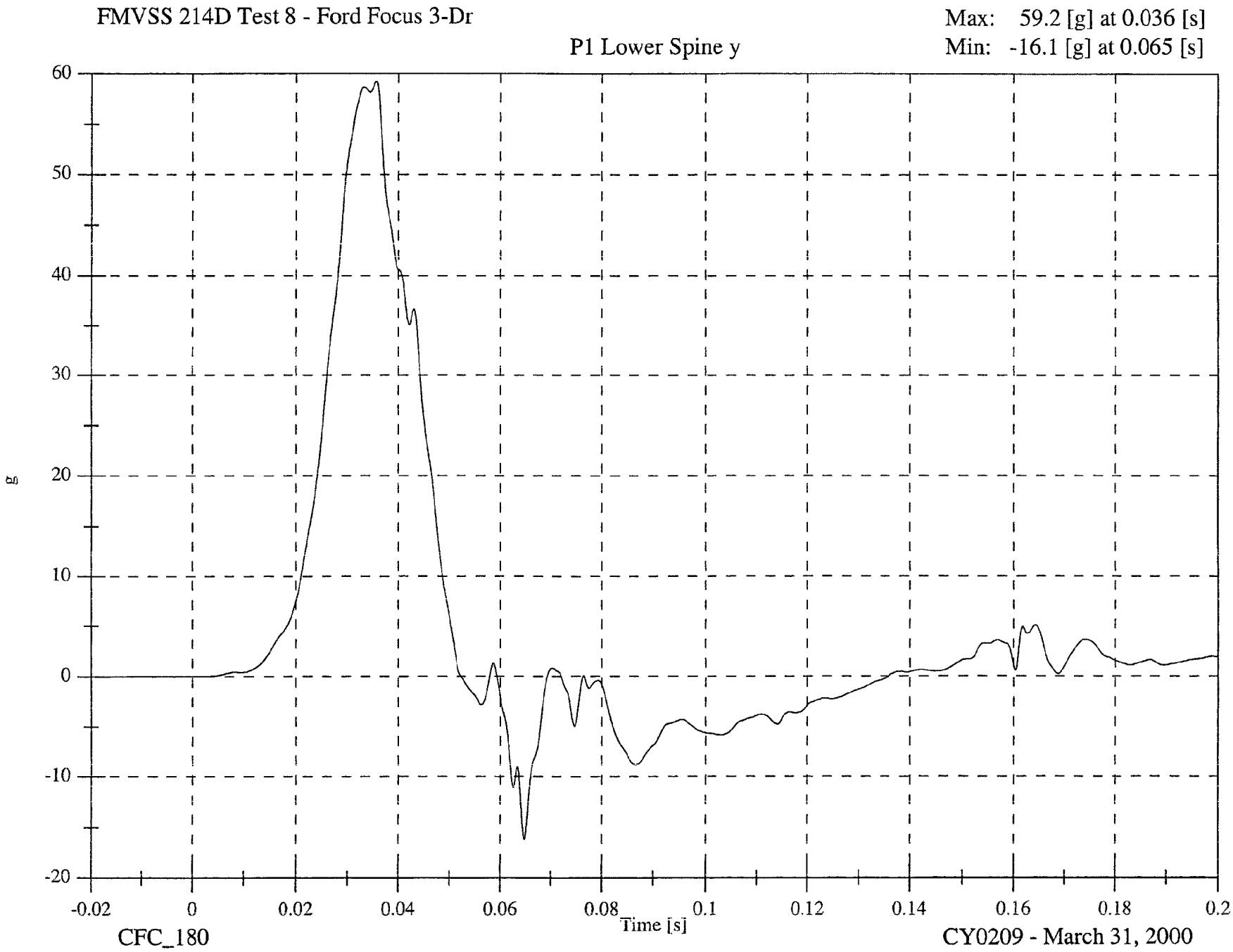
DRIVER & PASSENGER DUMMY INSTRUMENTATION PLOTS (REDUNDANT)
ACCELERATION DATA - FIR FILTERED

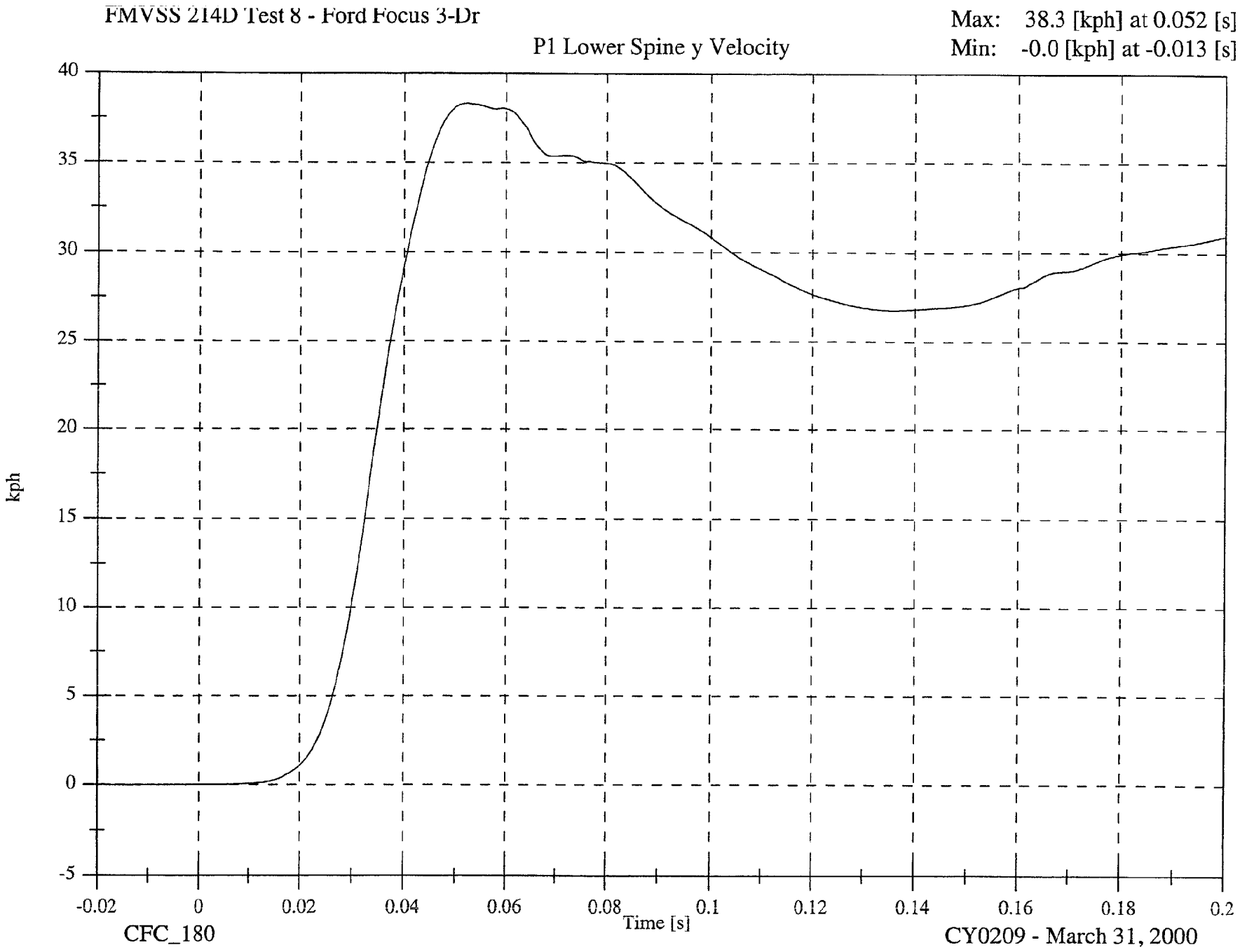

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Upper Rib y
Max: 71.6 [g] at 0.159 [s]
Min: -38.7 [g] at 0.160 [s]
75
50
25
0
-25
-50
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

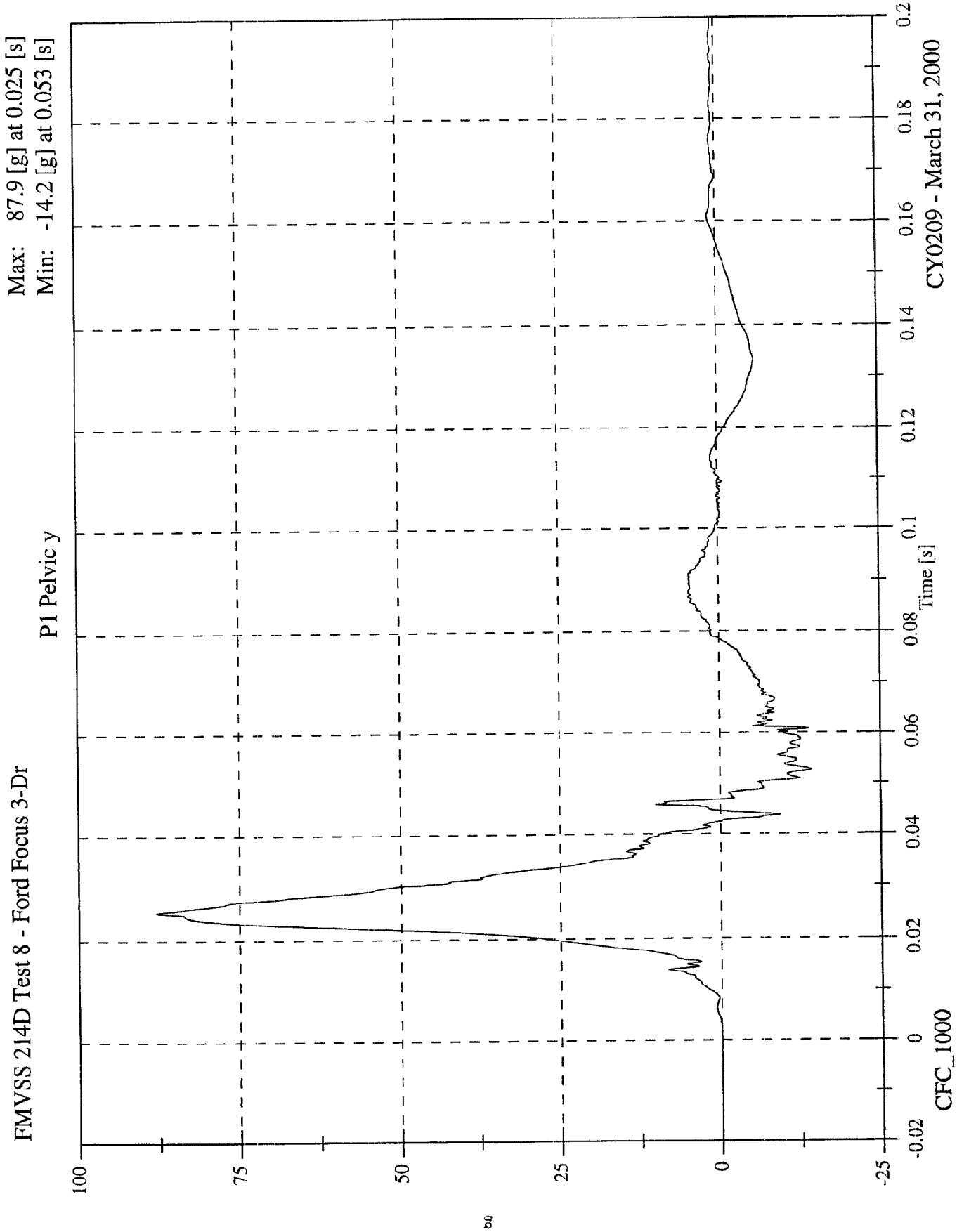

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Upper Rib y Velocity
Max: 35.1 [kph] at 0.200 [s]
Min: -0.0 [kph] at -0.012 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

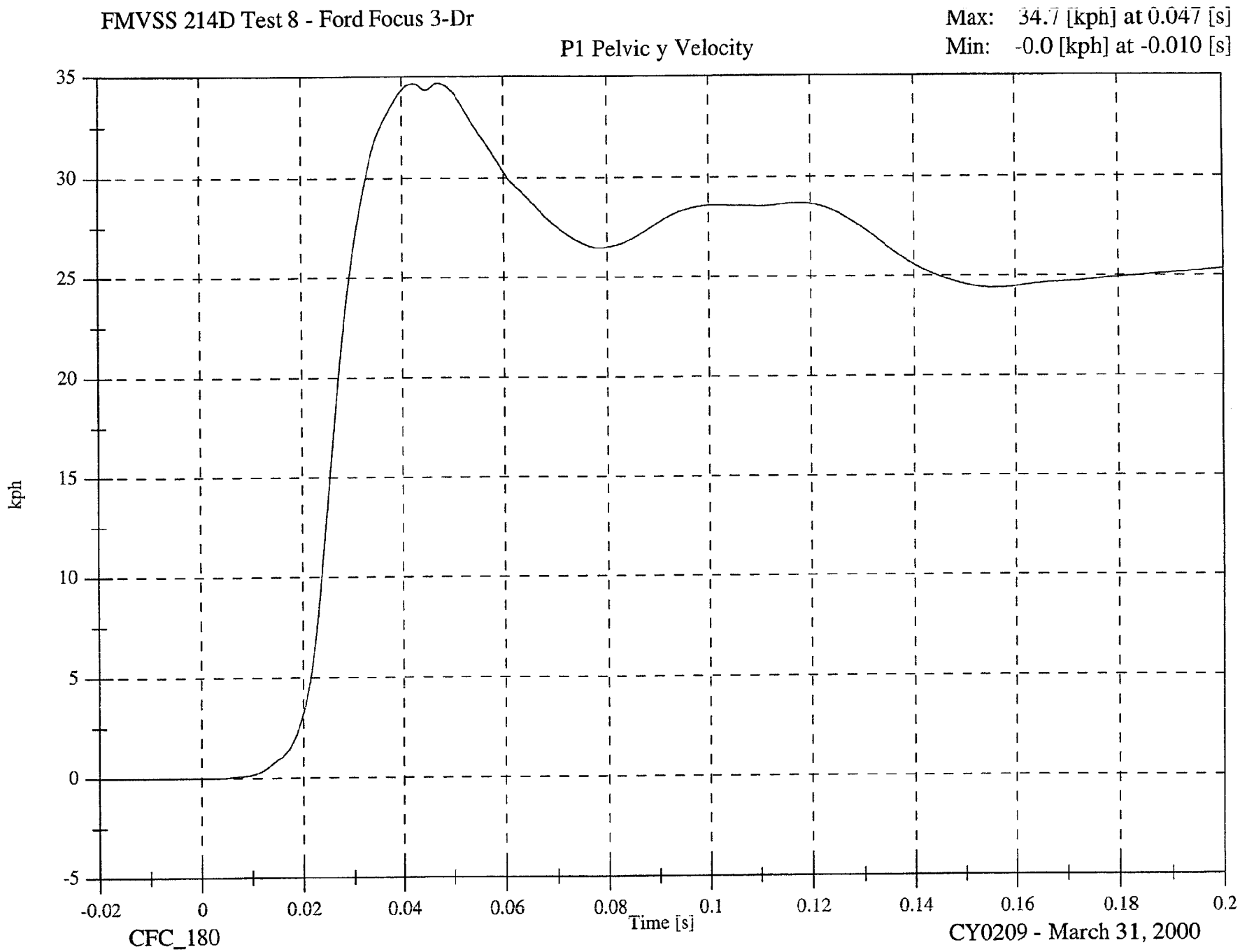

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Rib y
Max: 98.3 [g] at 0.159 [s]
Min: -59.6 [g] at 0.160 [s]
100
75
50
25
0
-25
-50
-75
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

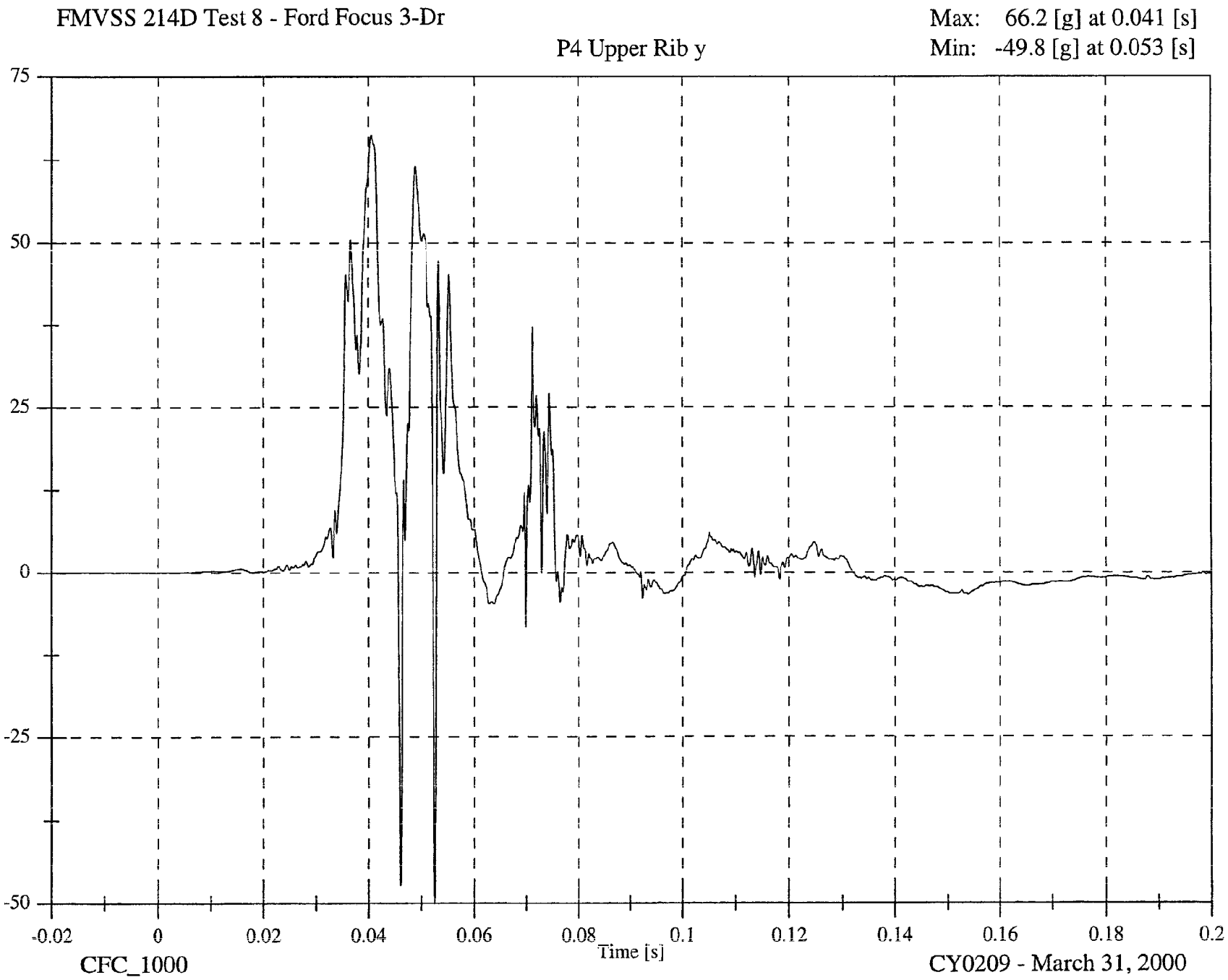

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Rib y Velocity
Max: 35.0 [kph] at 0.066 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

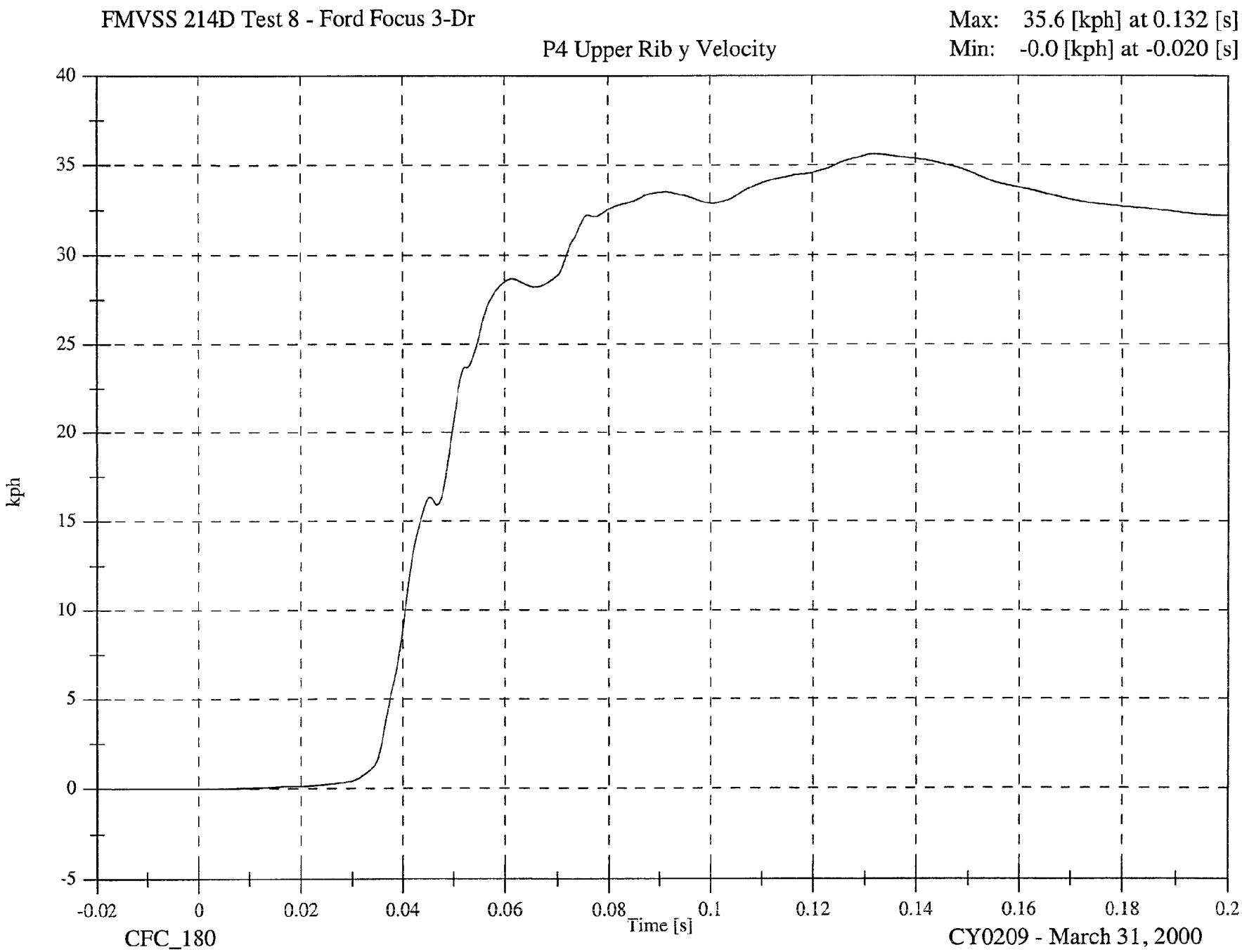

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Spine y
Max: 59.2 [g] at 0.036 [s]
Min: -16.1 [g] at 0.065 [s]
60
50
40
30
20
10
0
-10
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

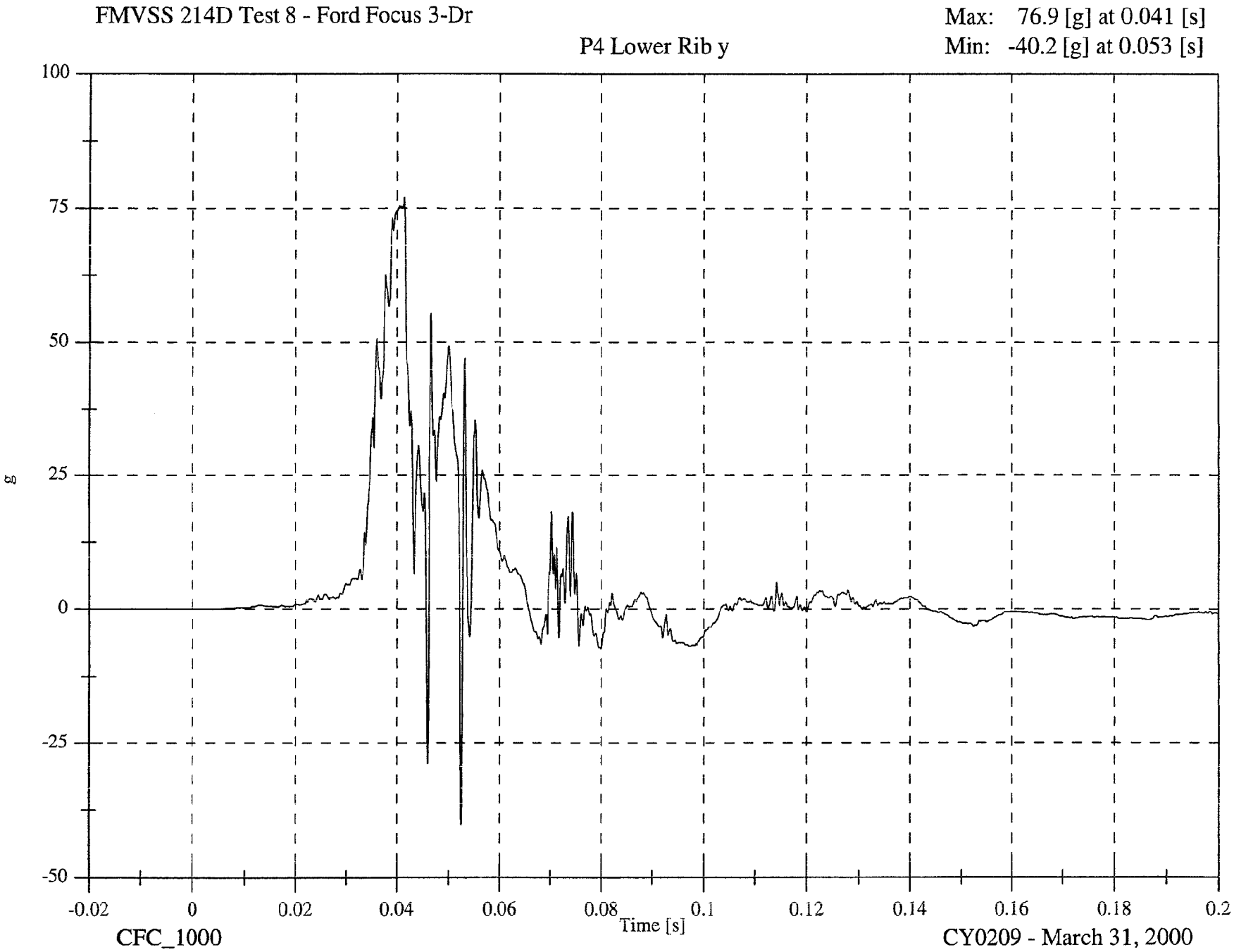

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Spine y Velocity
Max: 38.3 [kph] at 0.052 [s]
Min: -0.0 [kph] at -0.013 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

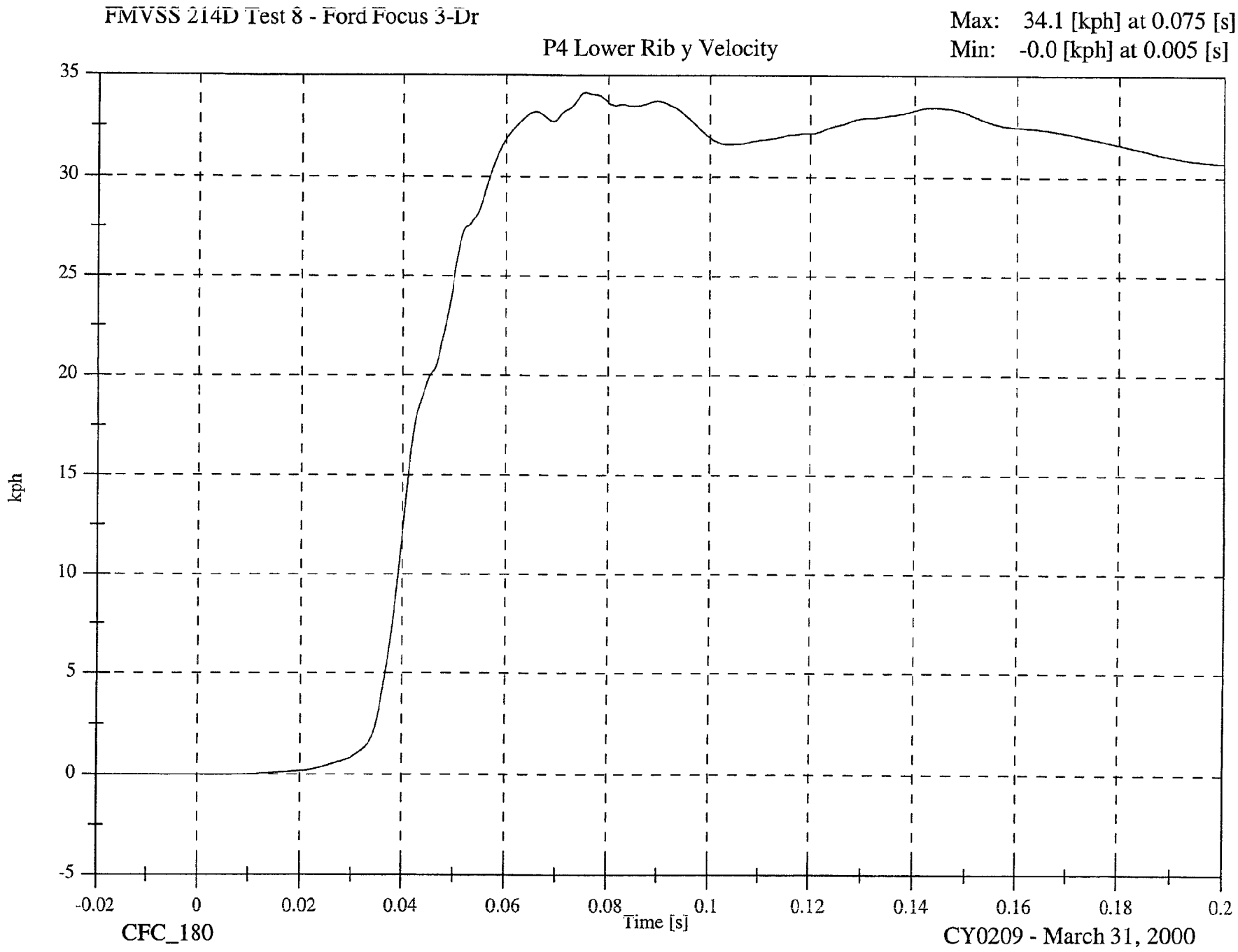

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Pelvic y
Max: 87.9 [g] at 0.025 [s]
Min: -14.2 [g] at 0.053 [s]
CY0209 - March 31, 2000
CFC_1000
Time [s]
g
100
75
50
25
0
-25
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2

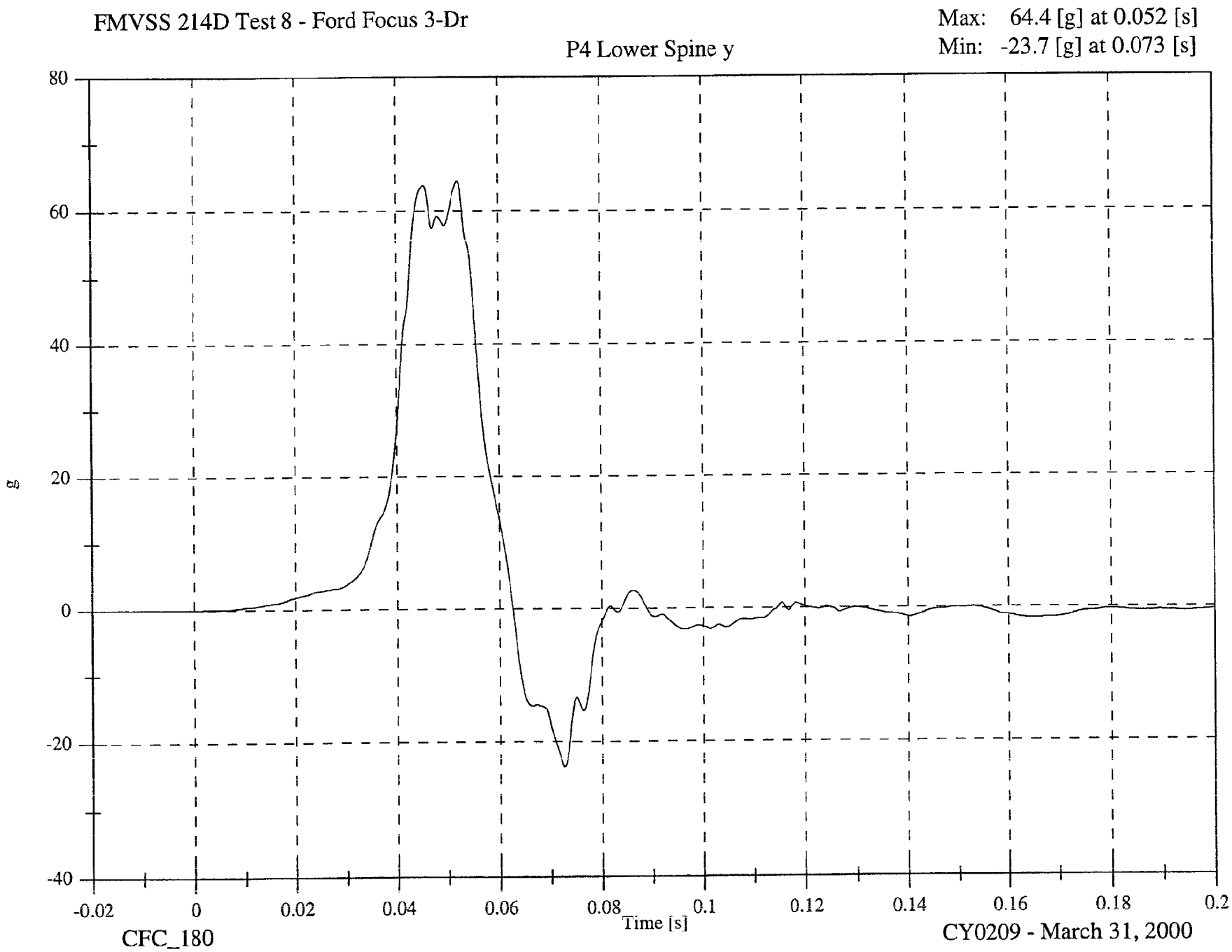

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Pelvic y Velocity
Max: 34.7 [kph] at 0.047 [s]
Min: -0.0 [kph] at -0.010 [s]
kph
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

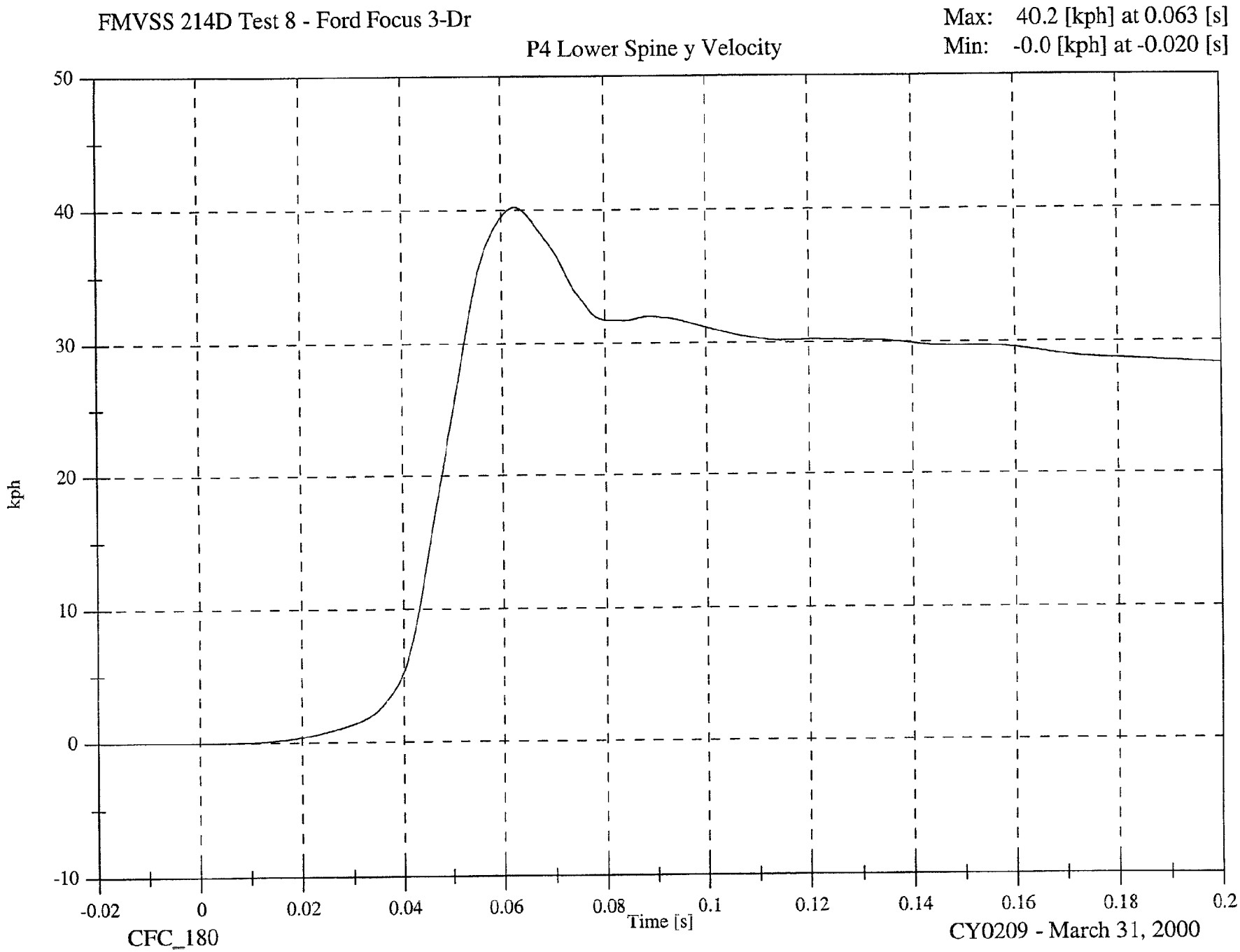

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Upper Rib y
Max: 66.2 [g] at 0.041 [s]
Min: -49.8 [g] at 0.053 [s]
75
50
25
0
-25
-50
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

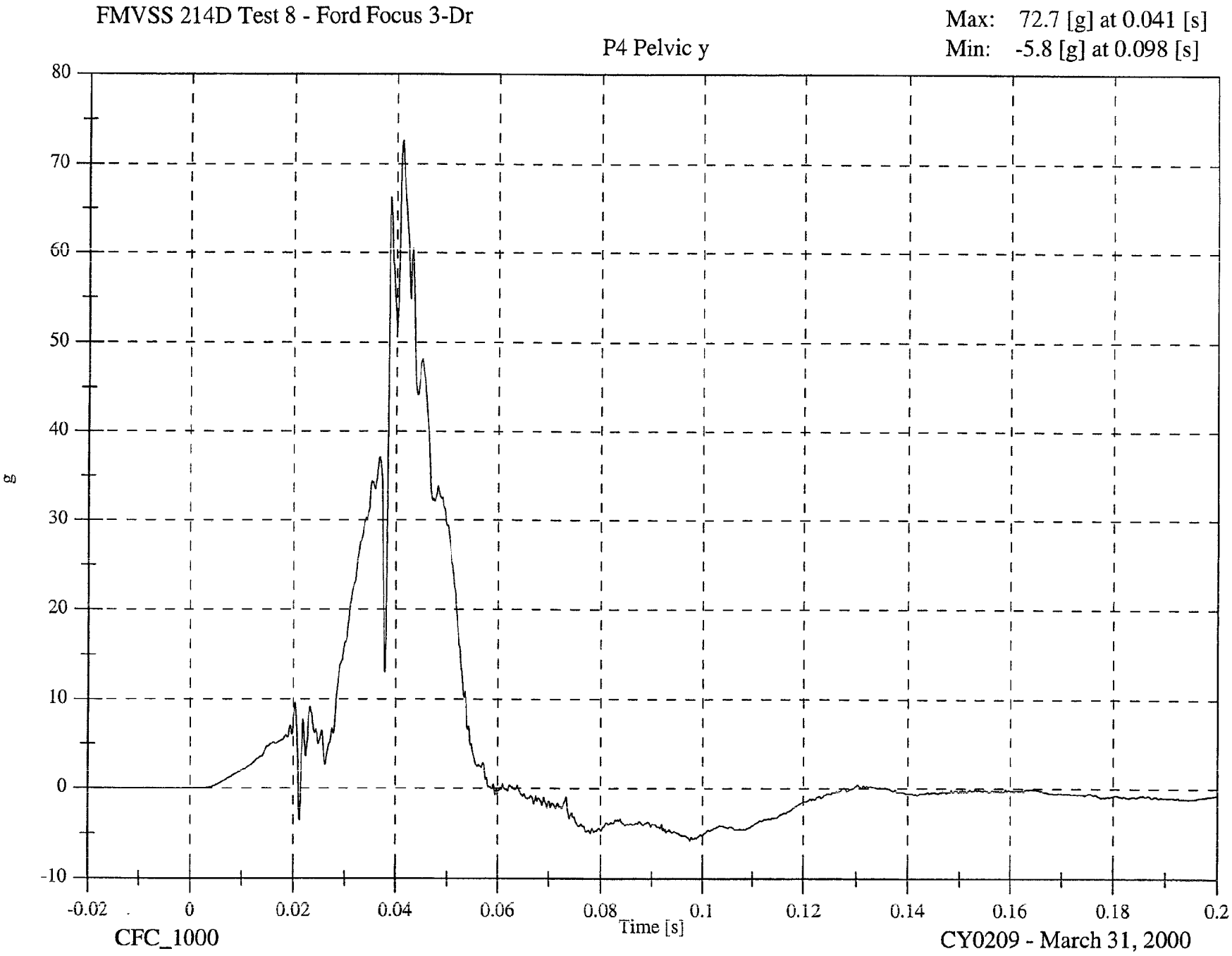

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Upper Rib y Velocity
Max: 35.6 [kph] at 0.132 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

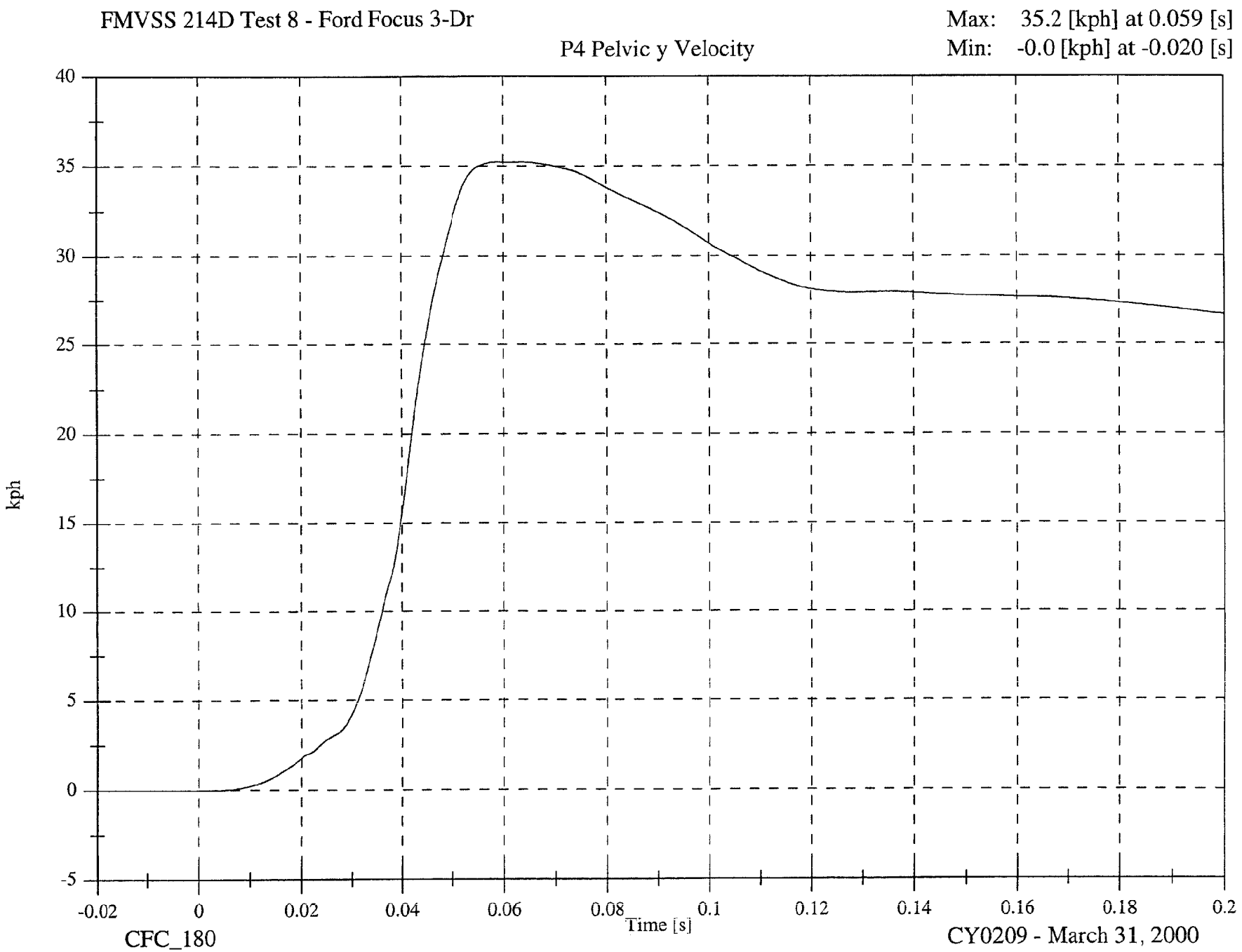

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Rib y
Max: 76.9 [g] at 0.041 [s]
Min: -40.2 [g] at 0.053 [s]
100
75
50
25
0
-25
-50
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

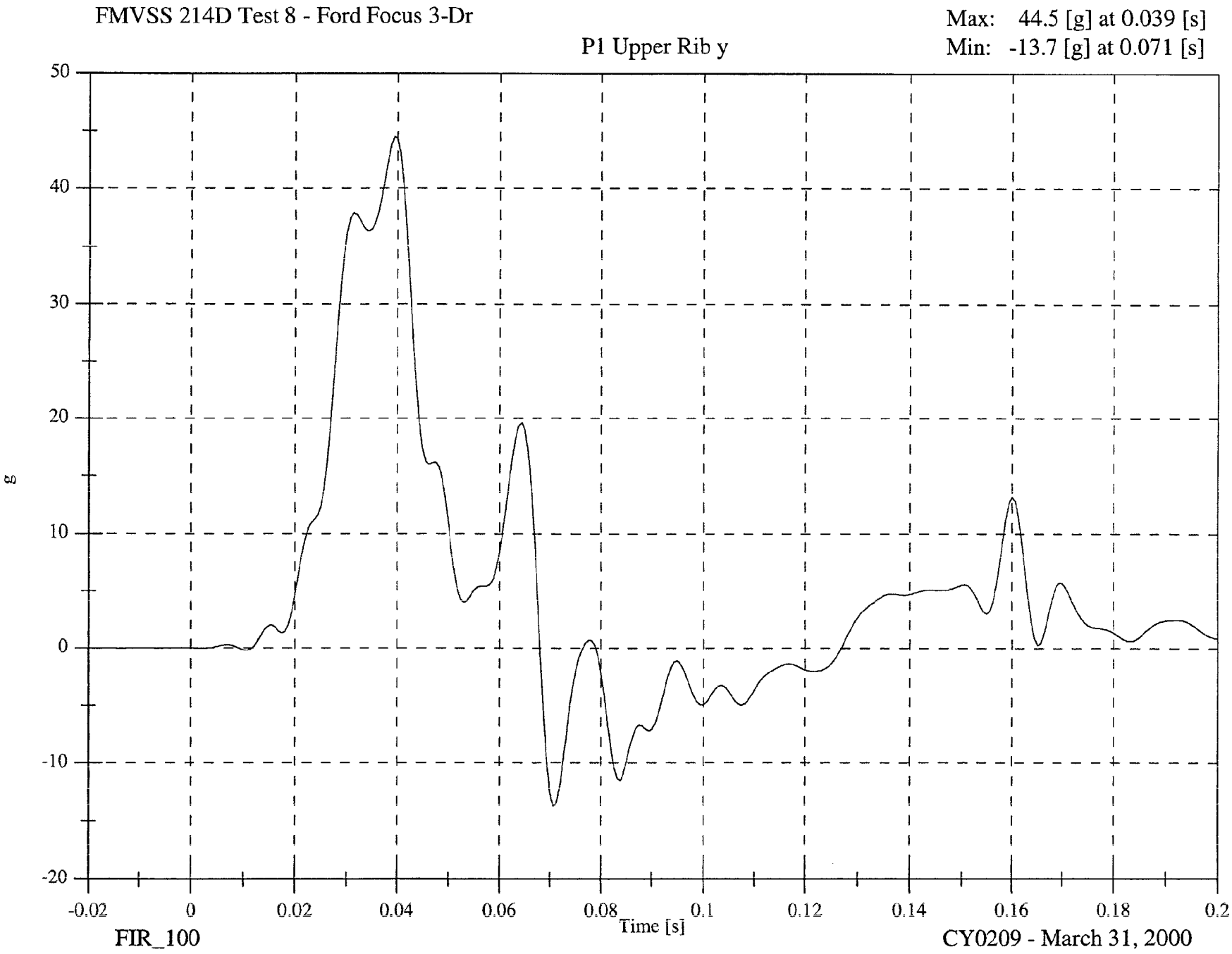

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Rib y Velocity
Max: 34.1 [kph] at 0.075 [s]
Min: -0.0 [kph] at 0.005 [s]
kph
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

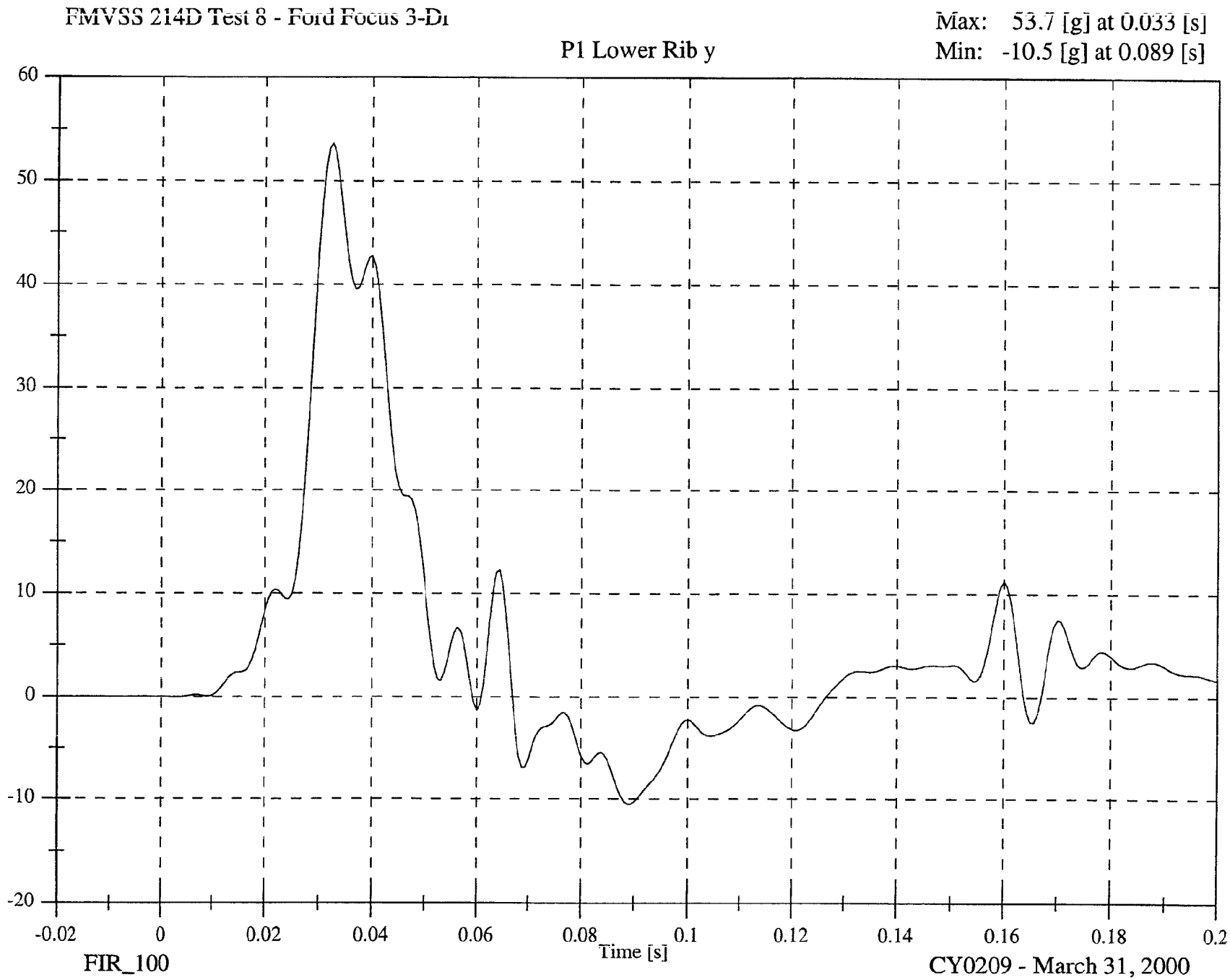

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Spine y
Max: 64.4 [g] at 0.052 [s]
Min: -23.7 [g] at 0.073 [s]
80
60
40
20
0
-20
-40
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

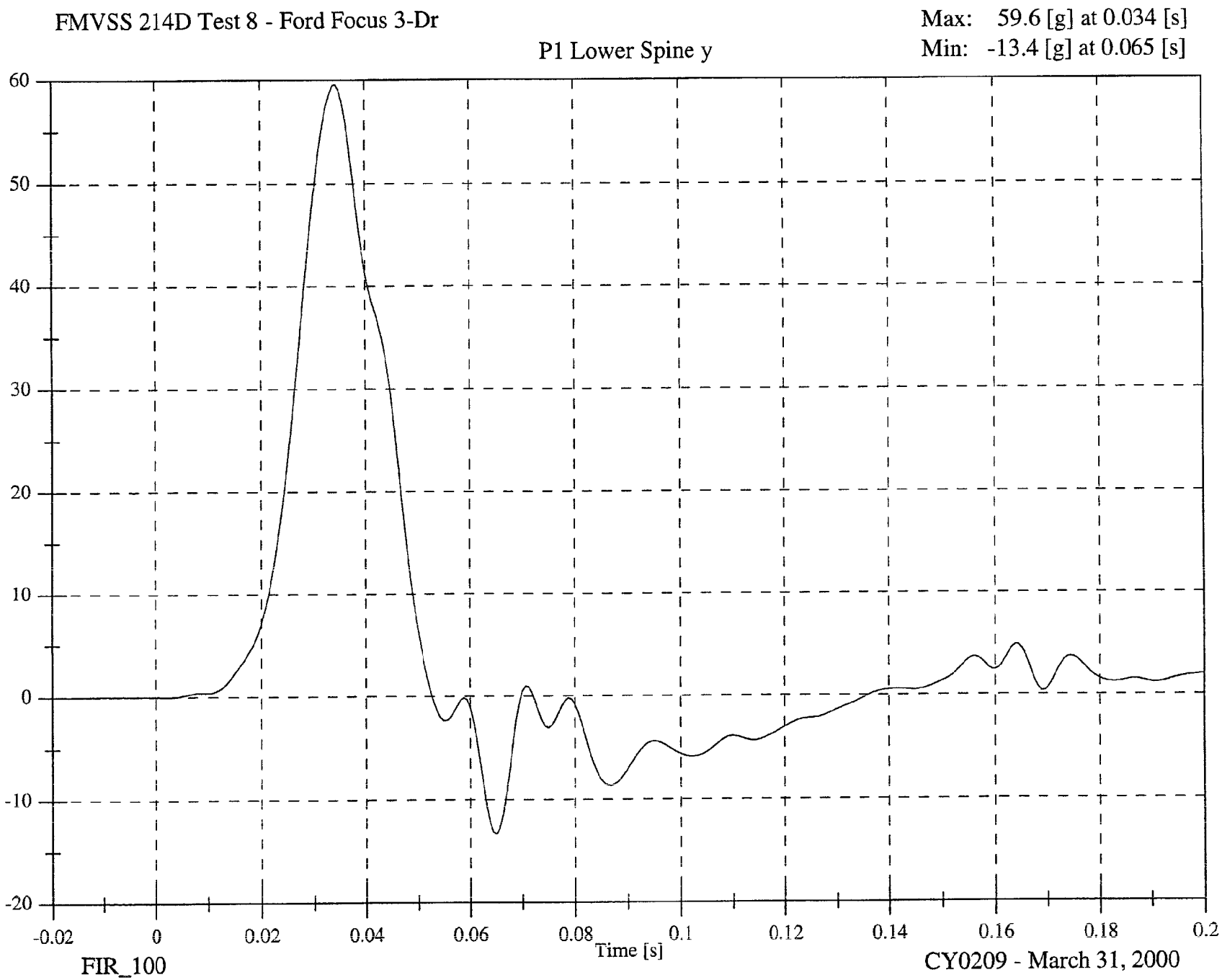

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Spine y Velocity
Max: 40.2 [kph] at 0.063 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
50
40
30
20
10
0
-10
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

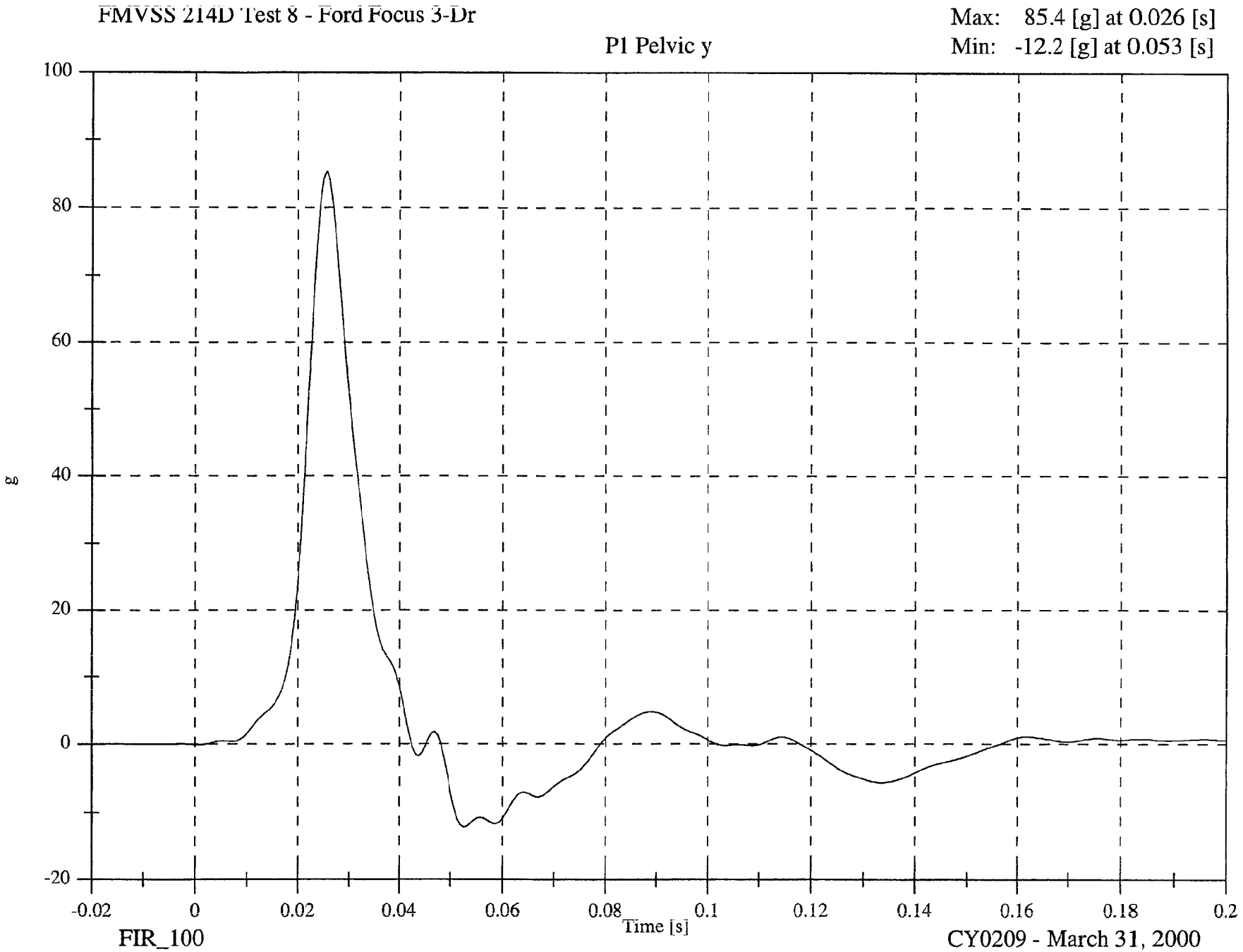

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Pelvic y
Max: 72.7 [g] at 0.041 [s]
Min: -5.8 [g] at 0.098 [s]
g
80
70
60
50
40
30
20
10
0
-10
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

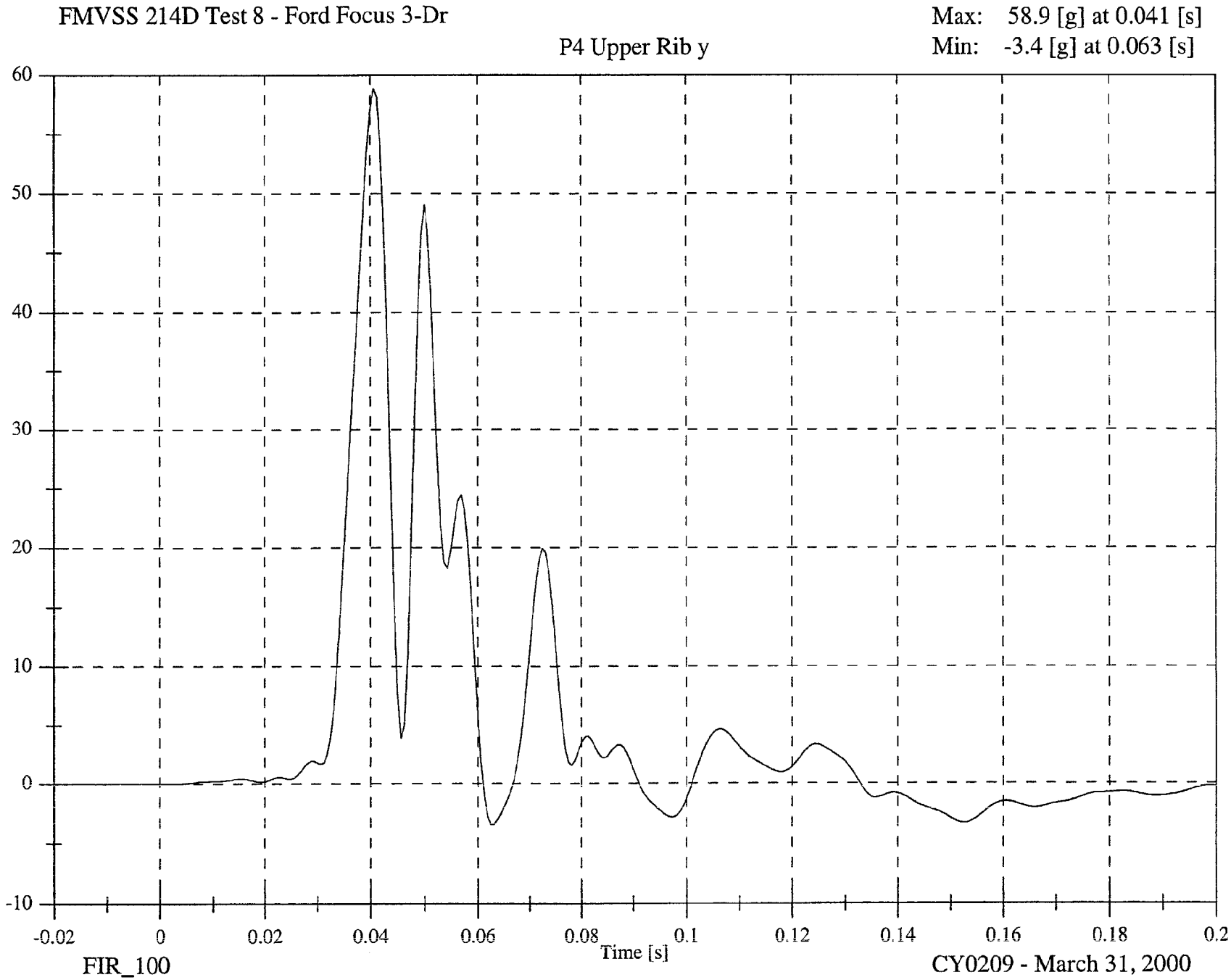

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Pelvic y Velocity
Max: 35.2 [kph] at 0.059 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

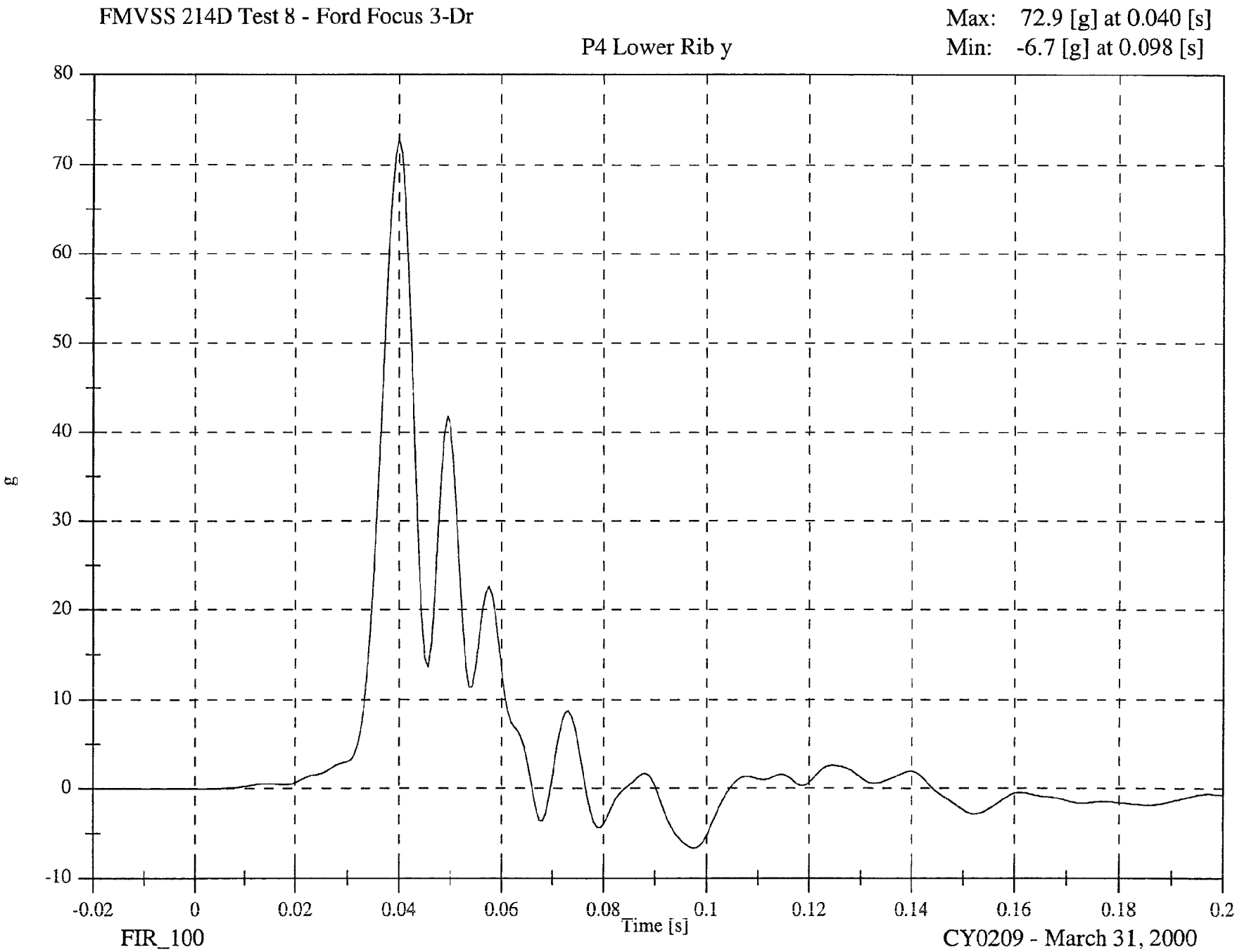

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Upper Rib y
Max: 44.5 [g] at 0.039 [s]
Min: -13.7 [g] at 0.071 [s]
50
40
30
20
10
0
-10
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

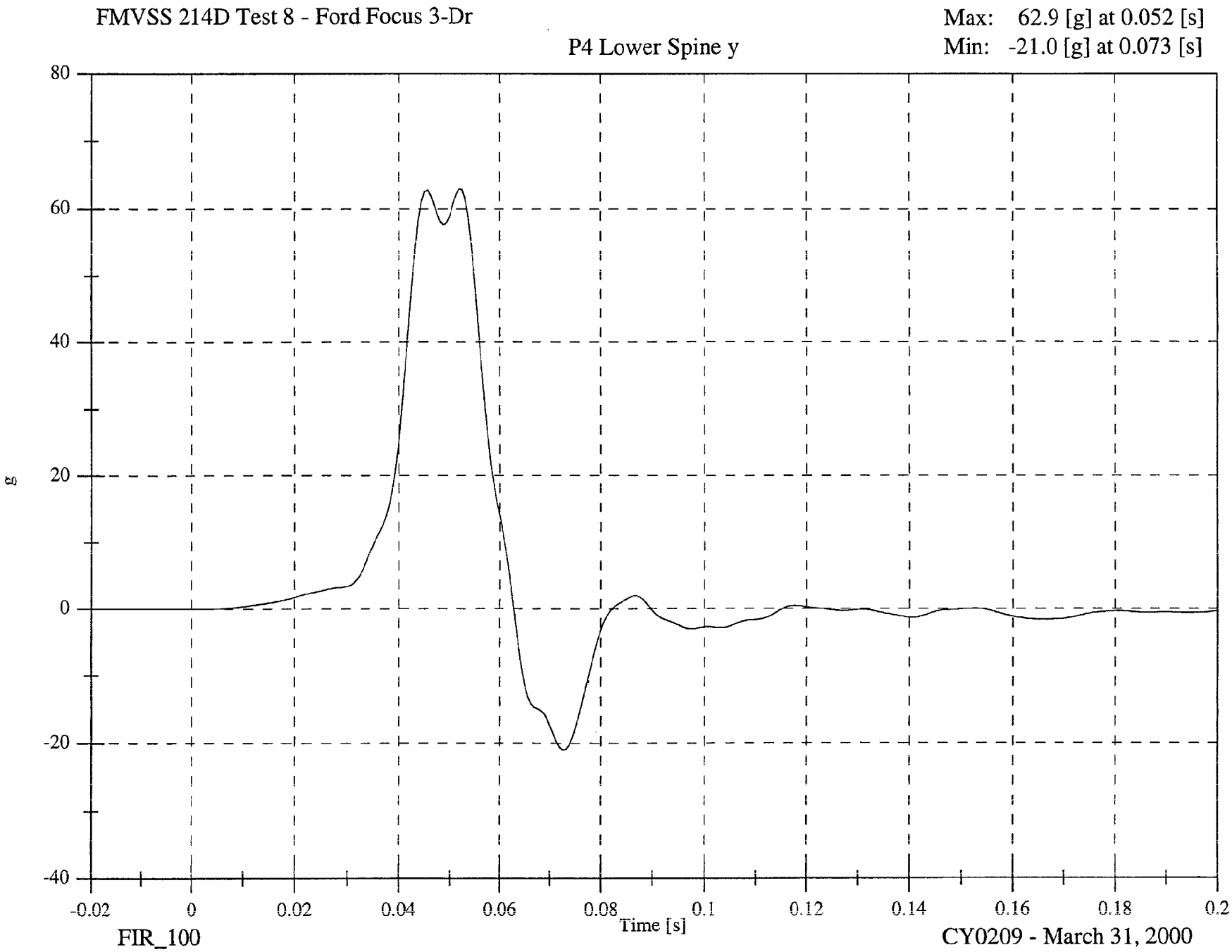

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Rib y
Max: 53.7 [g] at 0.033 [s]
Min: -10.5 [g] at 0.089 [s]
g
60
50
40
30
20
10
0
-10
-20
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

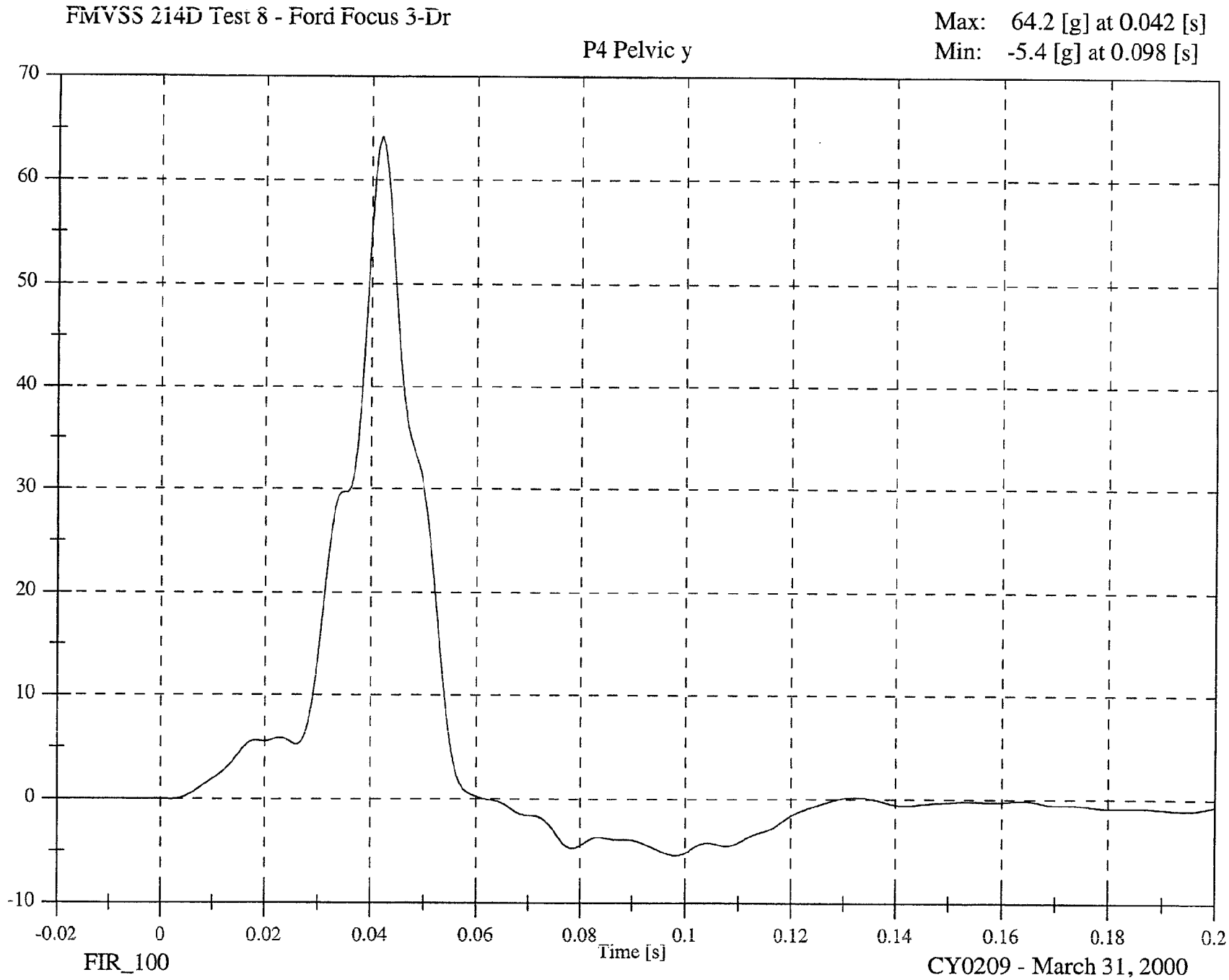

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Spine y
Max: 59.6 [g] at 0.034 [s]
Min: -13.4 [g] at 0.065 [s]
60
50
40
30
20
10
0
-10
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

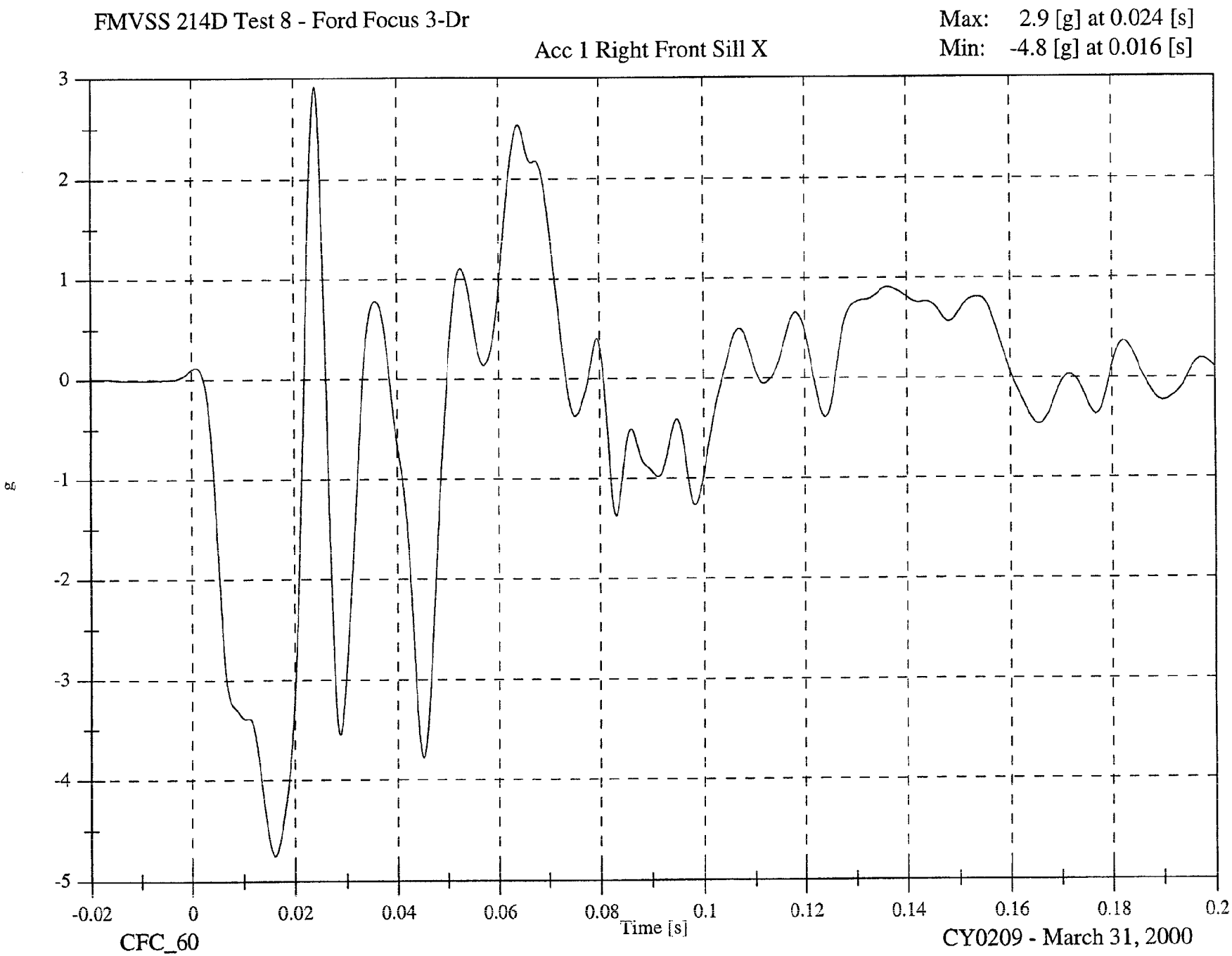

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Pelvic y
Max: 85.4 [g] at 0.026 [s]
Min: -12.2 [g] at 0.053 [s]
100
80
60
40
20
0
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

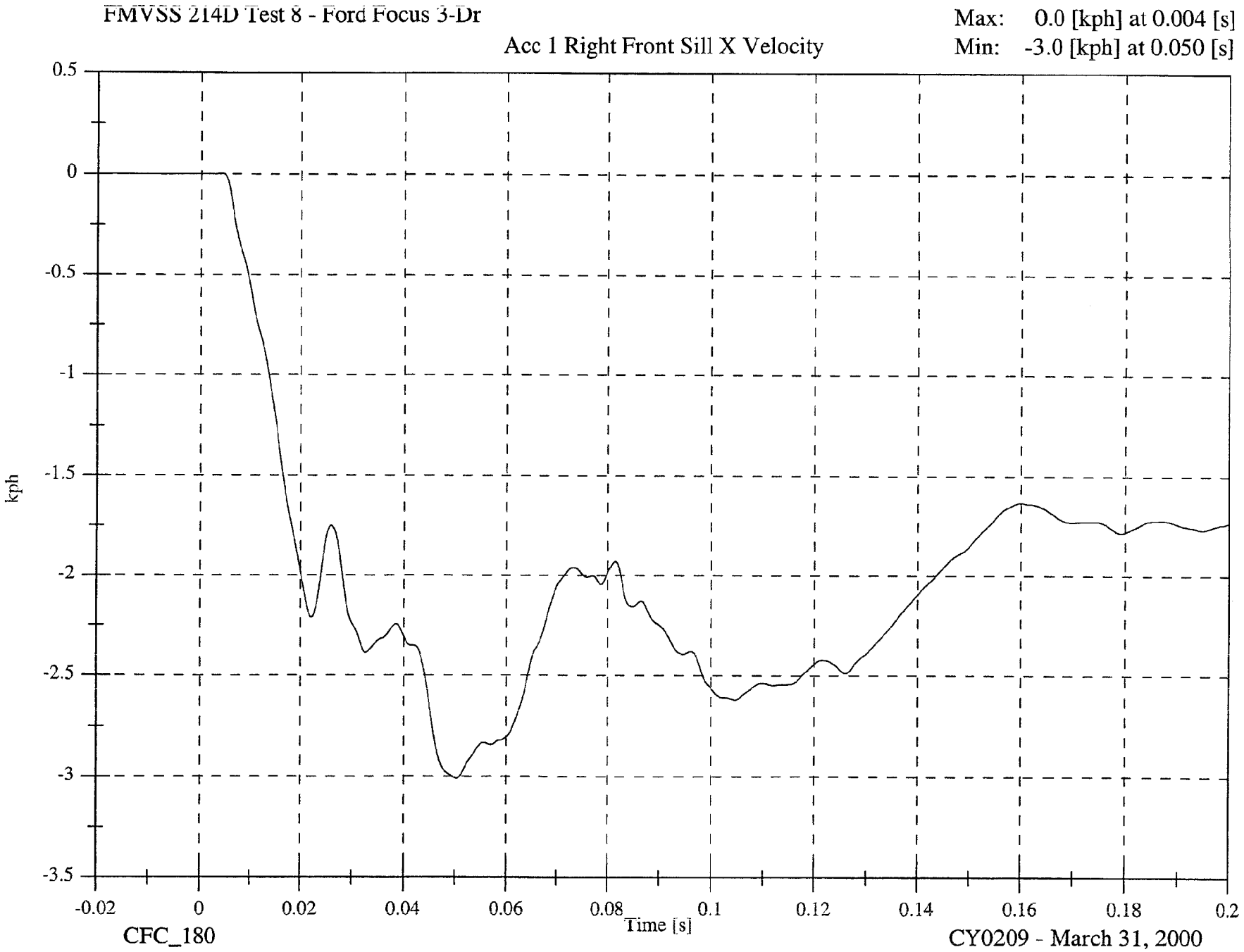

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Upper Rib y
Max: 58.9 [g] at 0.041 [s]
Min: -3.4 [g] at 0.063 [s]
60
50
40
30
20
10
0
-10
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

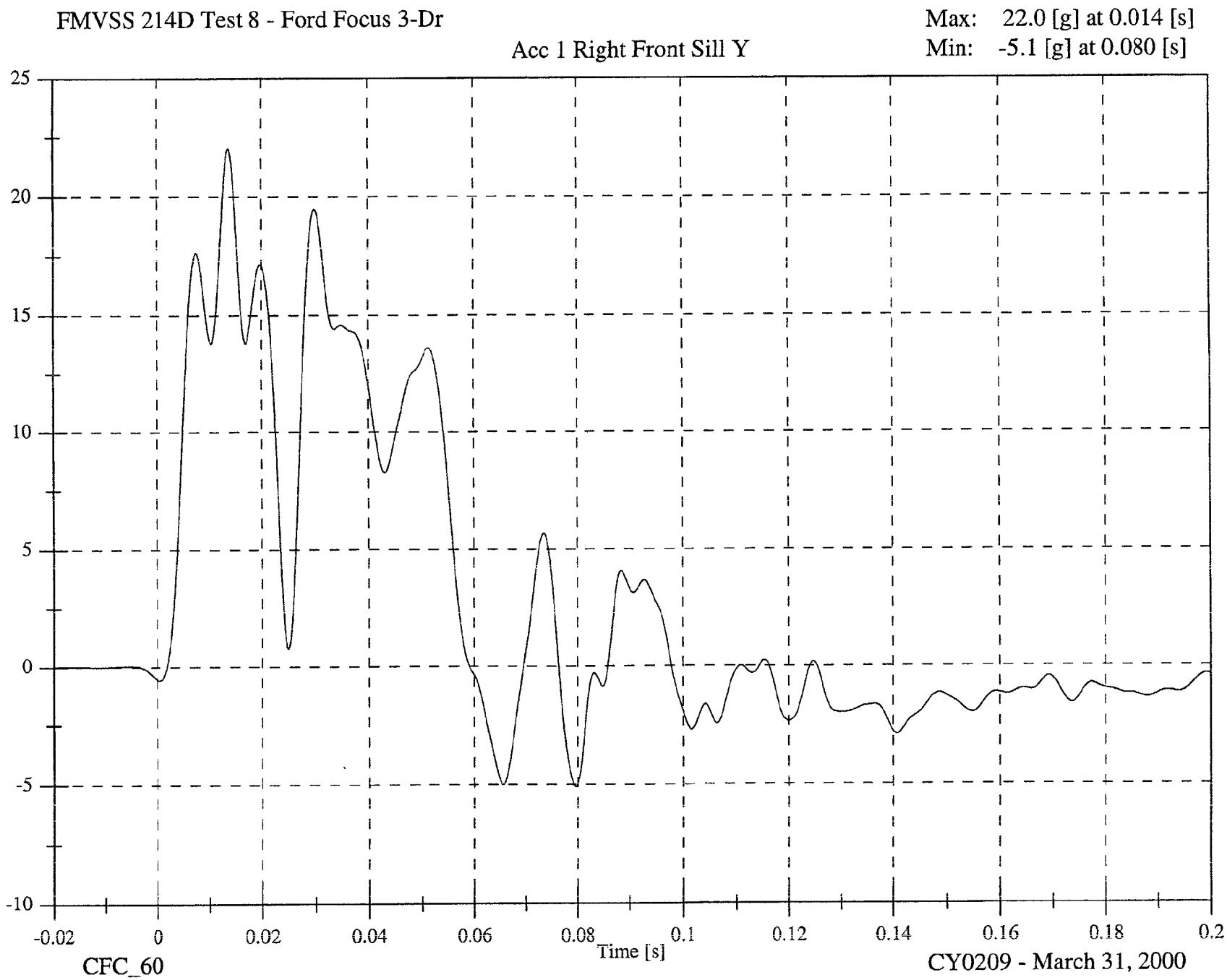

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Rib y
Max: 72.9 [g] at 0.040 [s]
Min: -6.7 [g] at 0.098 [s]
g
80
70
60
50
40
30
20
10
0
-10
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

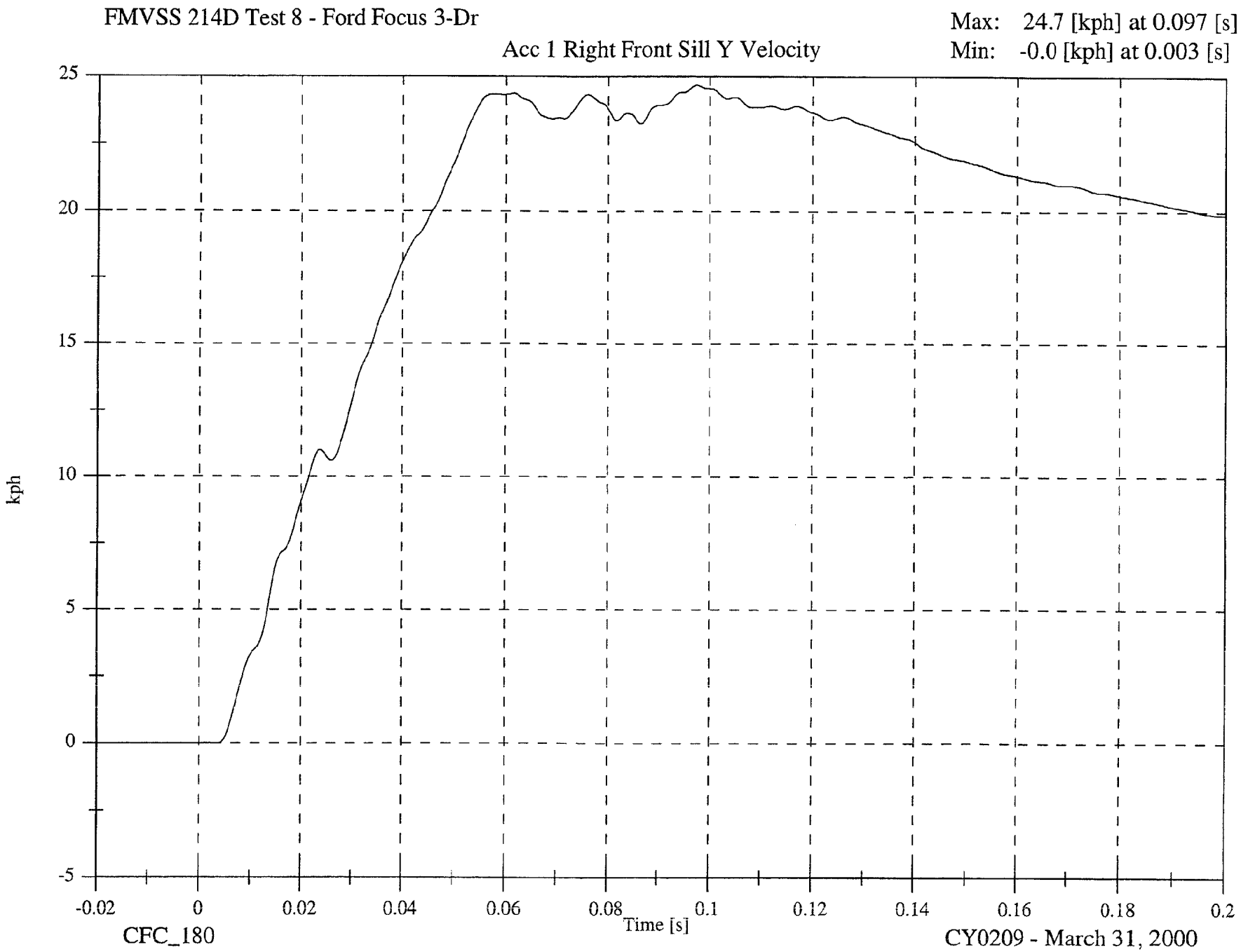

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Spine y
Max: 62.9 [g] at 0.052 [s]
Min: -21.0 [g] at 0.073 [s]
80
60
40
20
0
-20
-40
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

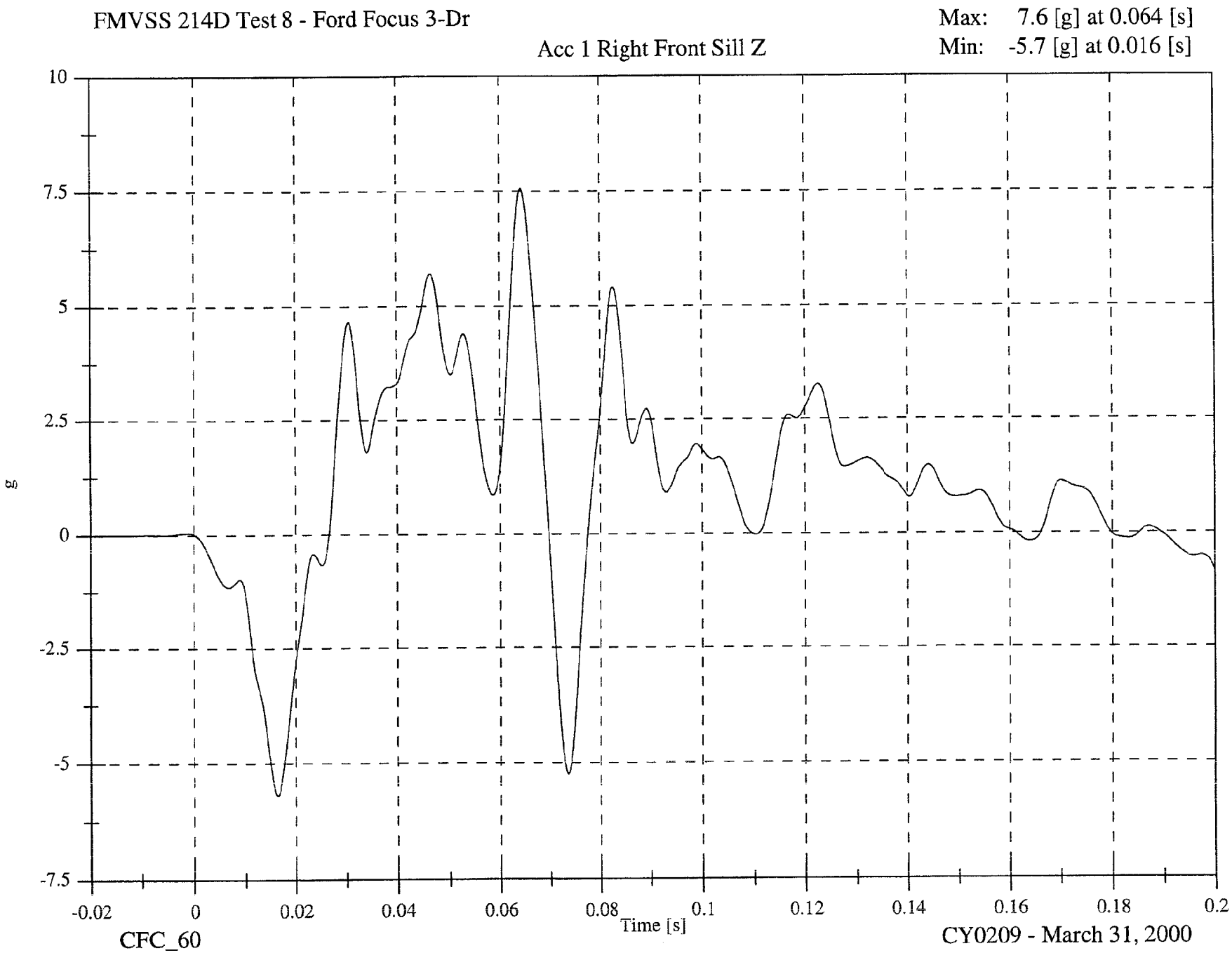

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Pelvic y
Max: 64.2 [g] at 0.042 [s]
Min: -5.4 [g] at 0.098 [s]
70
60
50
40
30
20
10
0
-10
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

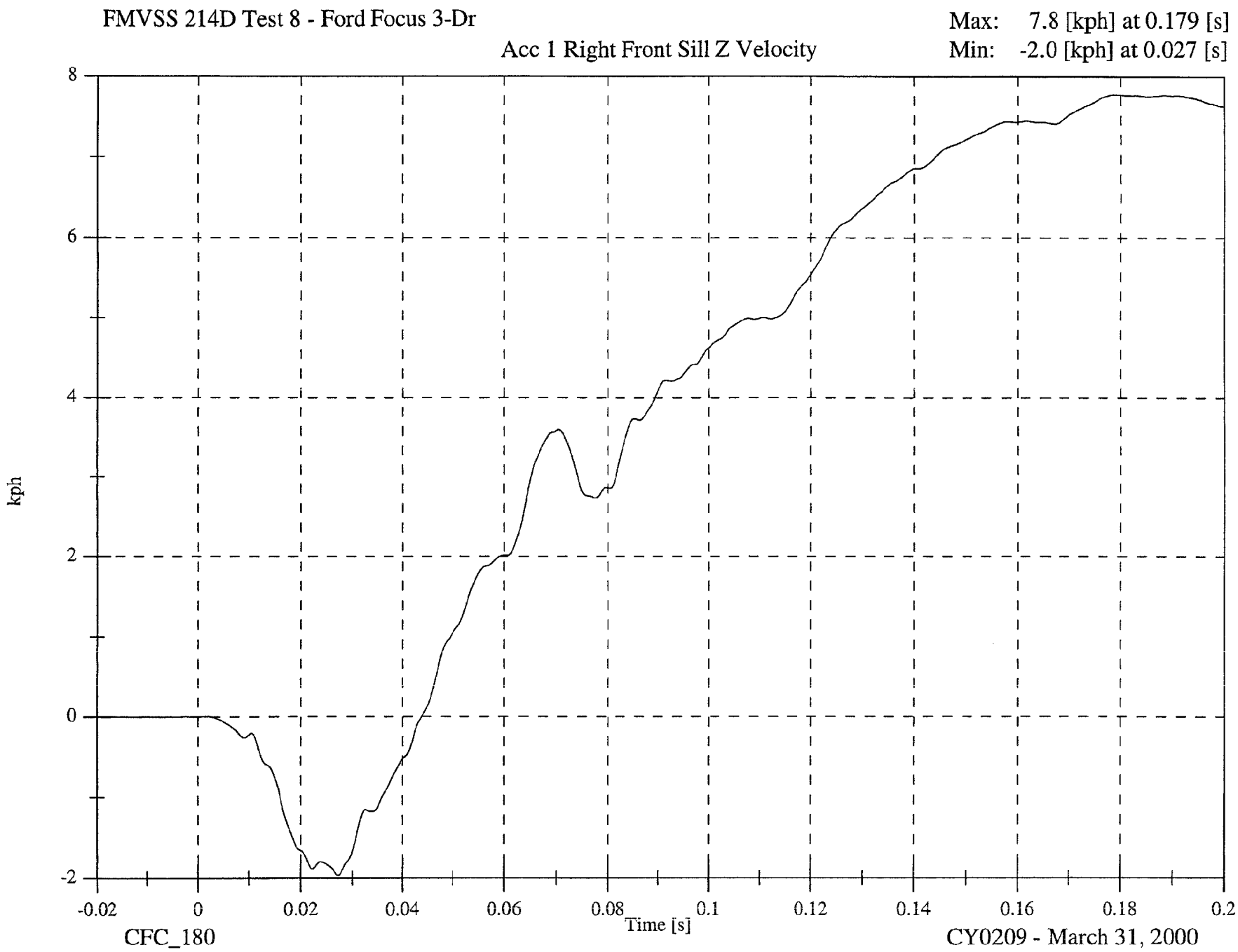

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 1 Right Front Sill X
Max: 2.9 [g] at 0.024 [s]
Min: -4.8 [g] at 0.016 [s]
g
3
2
1
0
-1
-2
-3
-4
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

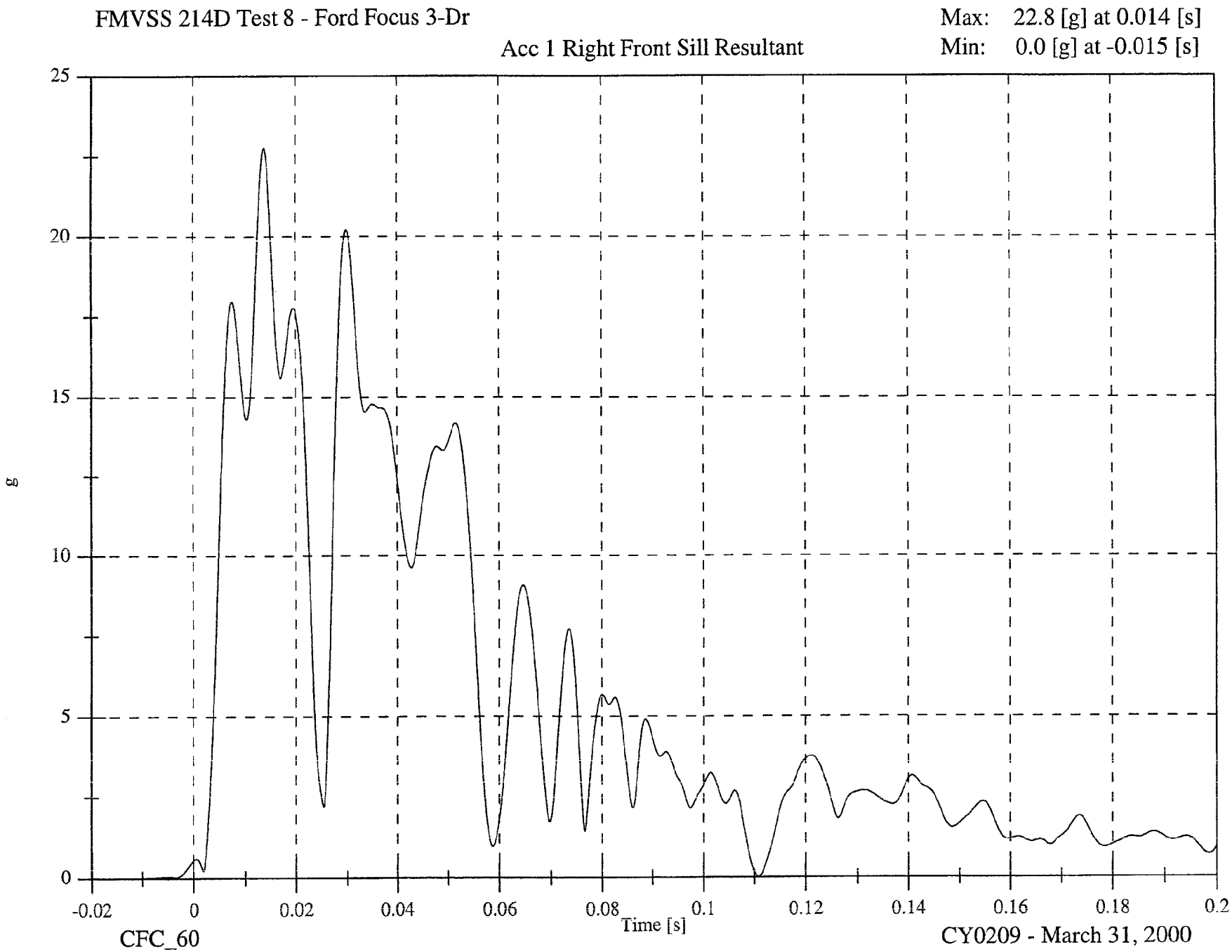

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 1 Right Front Sill X Velocity
Max: 0.0 [kph] at 0.004 [s]
Min: -3.0 [kph] at 0.050 [s]
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
-3.5
kph
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

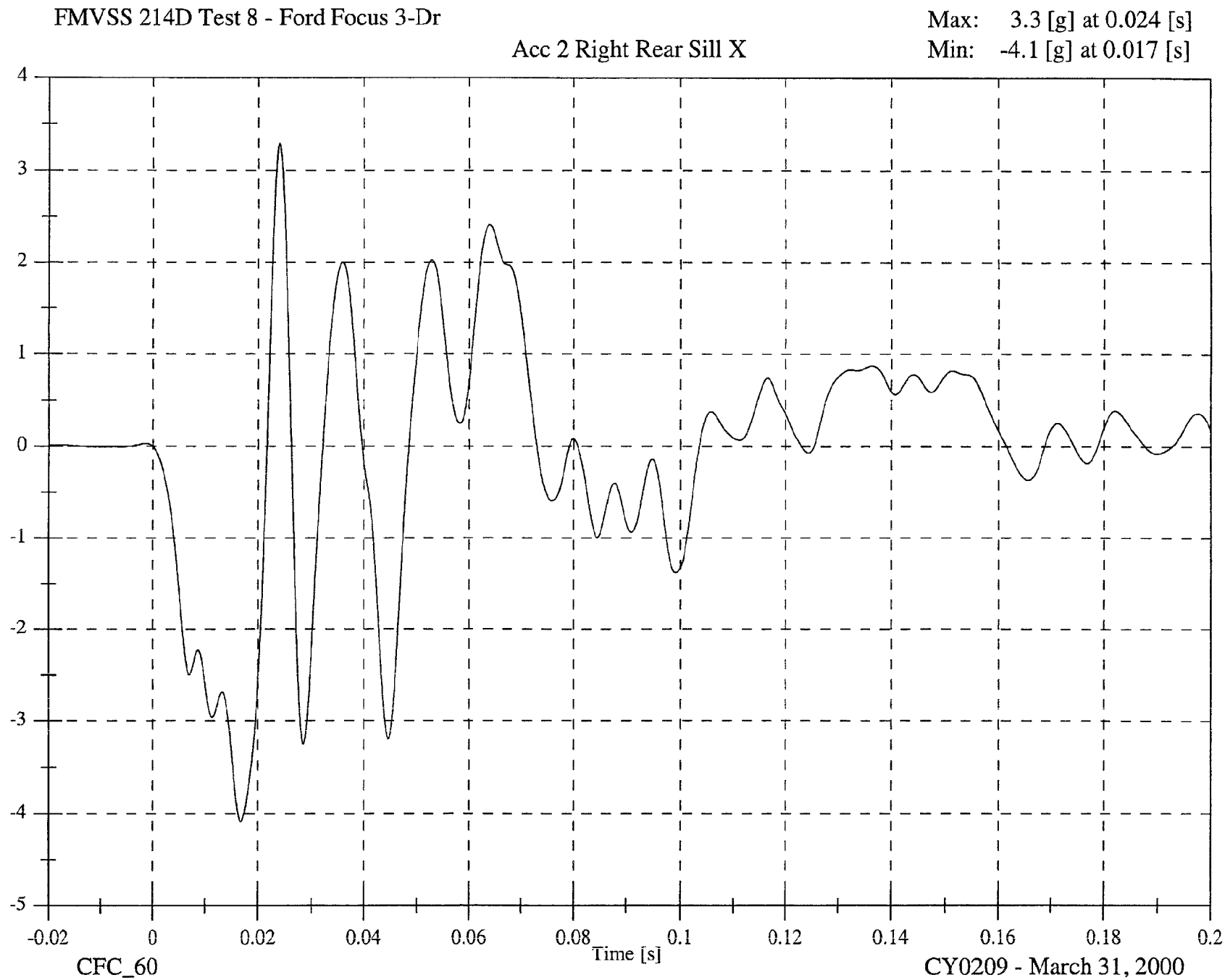

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 1 Right Front Sill Y
Max: 22.0 [g] at 0.014 [s]
Min: -5.1 [g] at 0.080 [s]
25
20
15
10
5
0
-5
-10
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

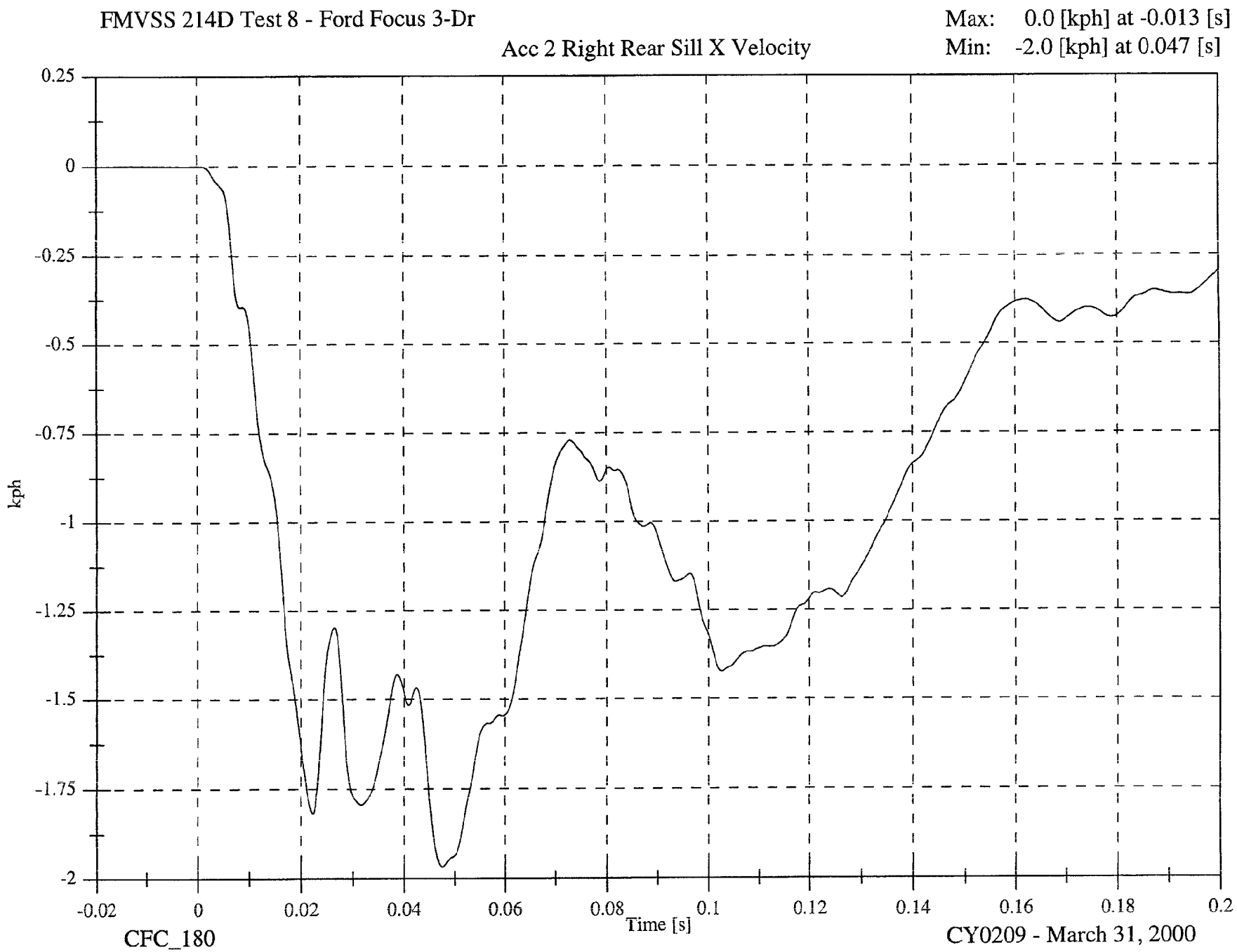

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 1 Right Front Sill Y Velocity
Max: 24.7 [kph] at 0.097 [s]
Min: -0.0 [kph] at 0.003 [s]
kph
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

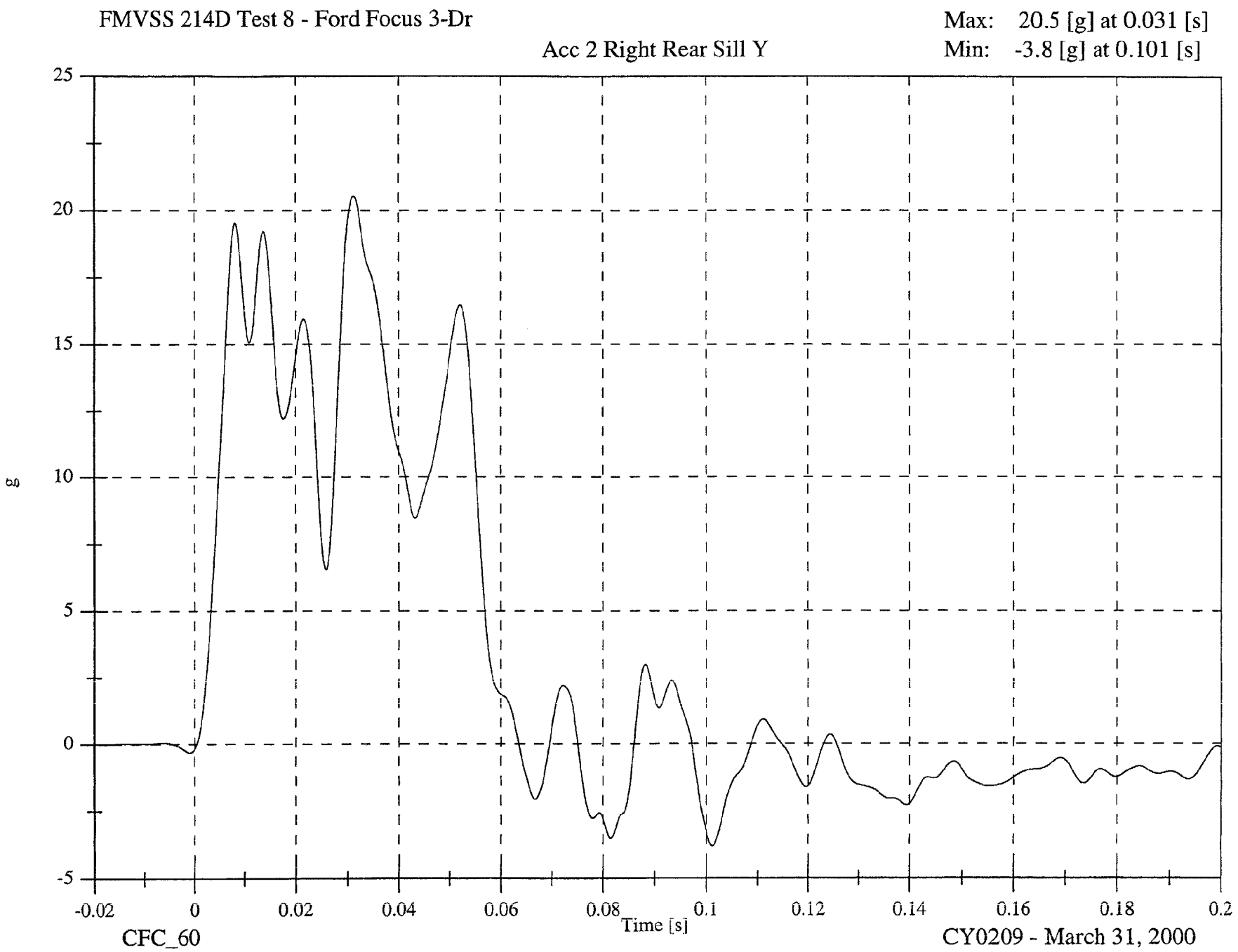

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 1 Right Front Sill Z
Max: 7.6 [g] at 0.064 [s]
Min: -5.7 [g] at 0.016 [s]
10
7.5
5
2.5
0
-2.5
-5
-7.5
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

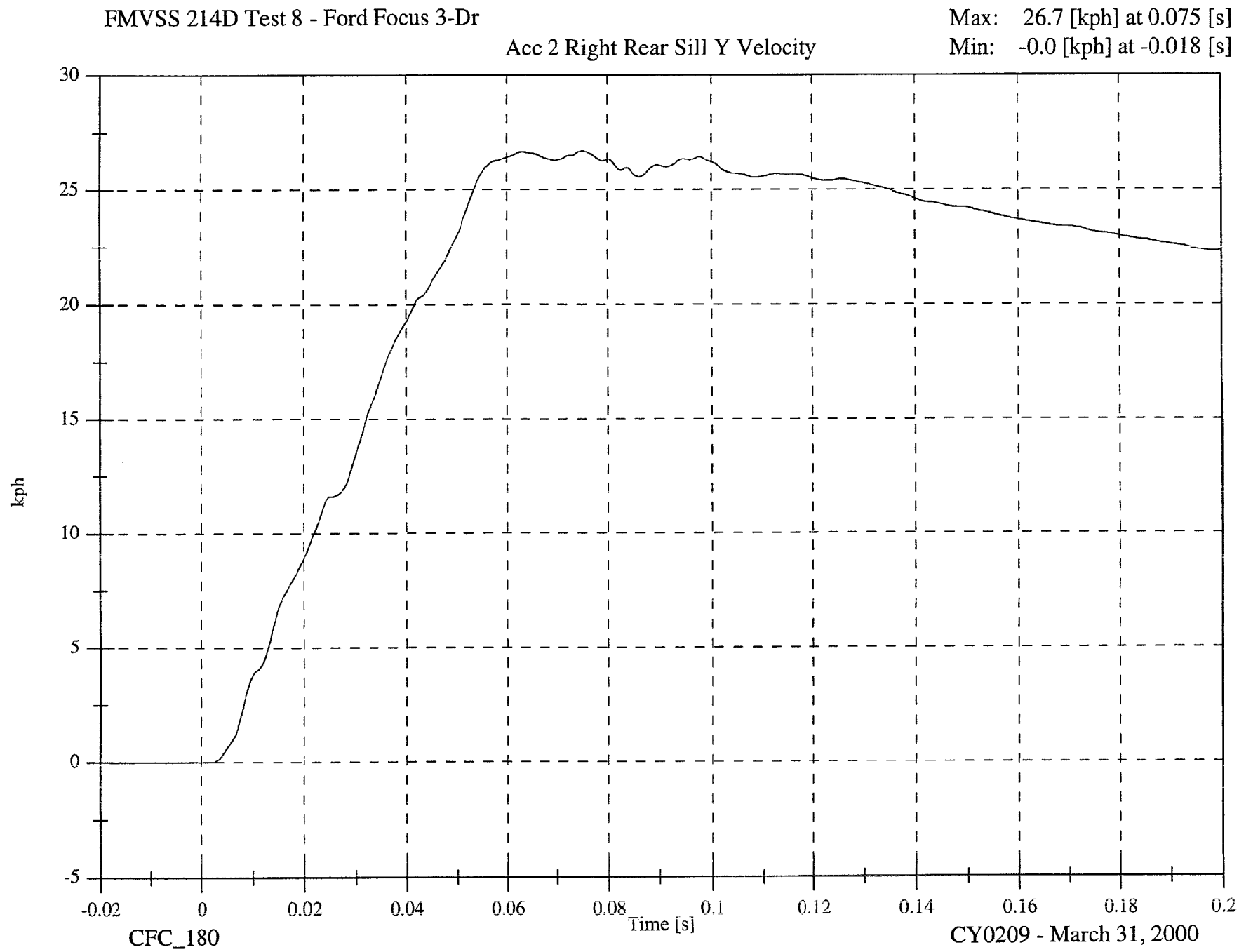

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 1 Right Front Sill Z Velocity
Max: 7.8 [kph] at 0.179 [s]
Min: -2.0 [kph] at 0.027 [s]
kph
8
6
4
2
0
-2
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

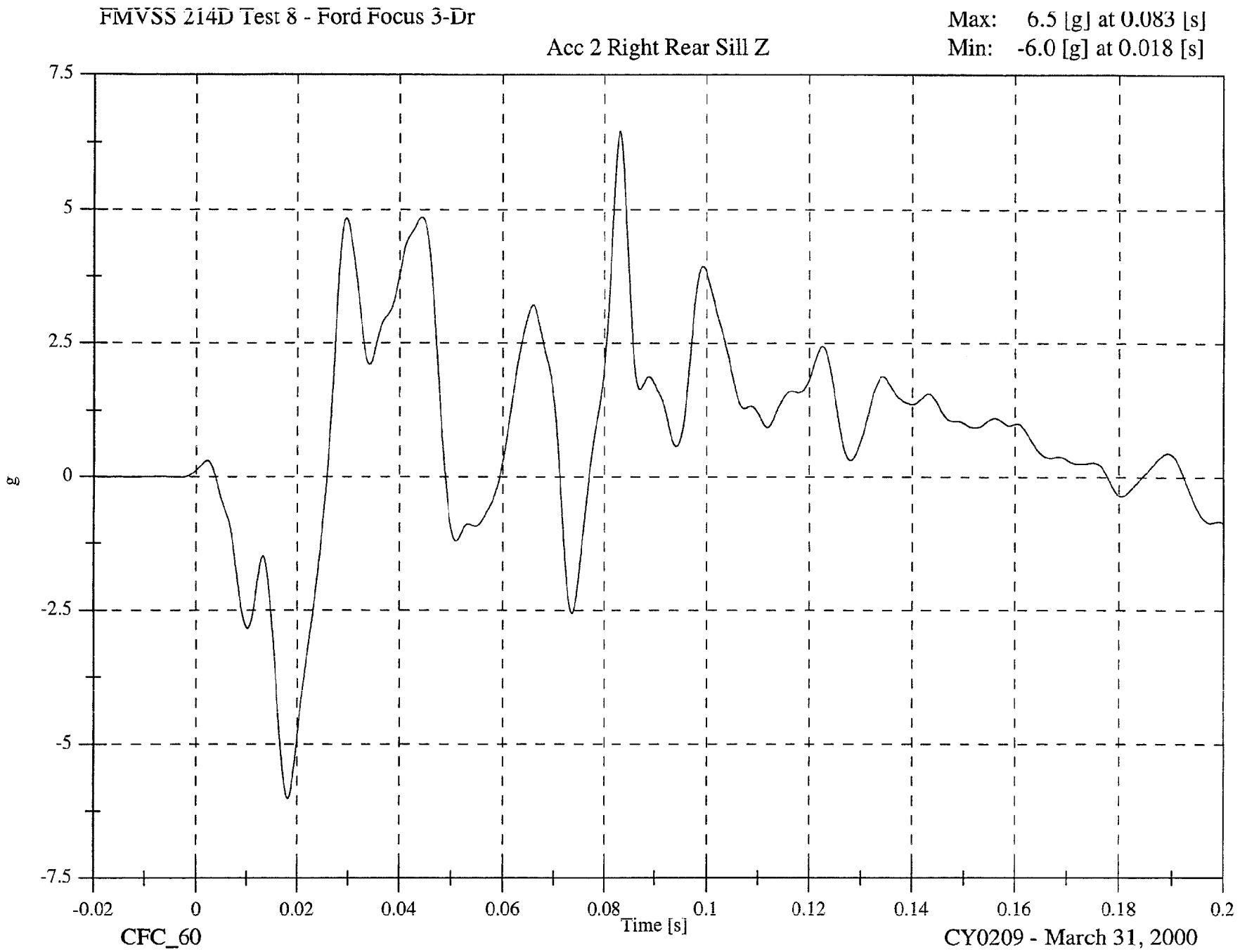

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 1 Right Front Sill Resultant
Max: 22.8 [g] at 0.014 [s]
Min: 0.0 [g] at -0.015 [s]
25
20
15
10
5
0
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 2 Right Rear Sill X
Max: 3.3 [g] at 0.024 [s]
Min: -4.1 [g] at 0.017 [s]
g
Time [s]
CFC_60
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 2 Right Rear Sill X Velocity
Max: 0.0 [kph] at -0.013 [s]
Min: -2.0 [kph] at 0.047 [s]
0.25
0
-0.25
-0.5
-0.75
-1
-1.25
-1.5
-1.75
-2
kph
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 2 Right Rear Sill Y
Max: 20.5 [g] at 0.031 [s]
Min: -3.8 [g] at 0.101 [s]
g
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

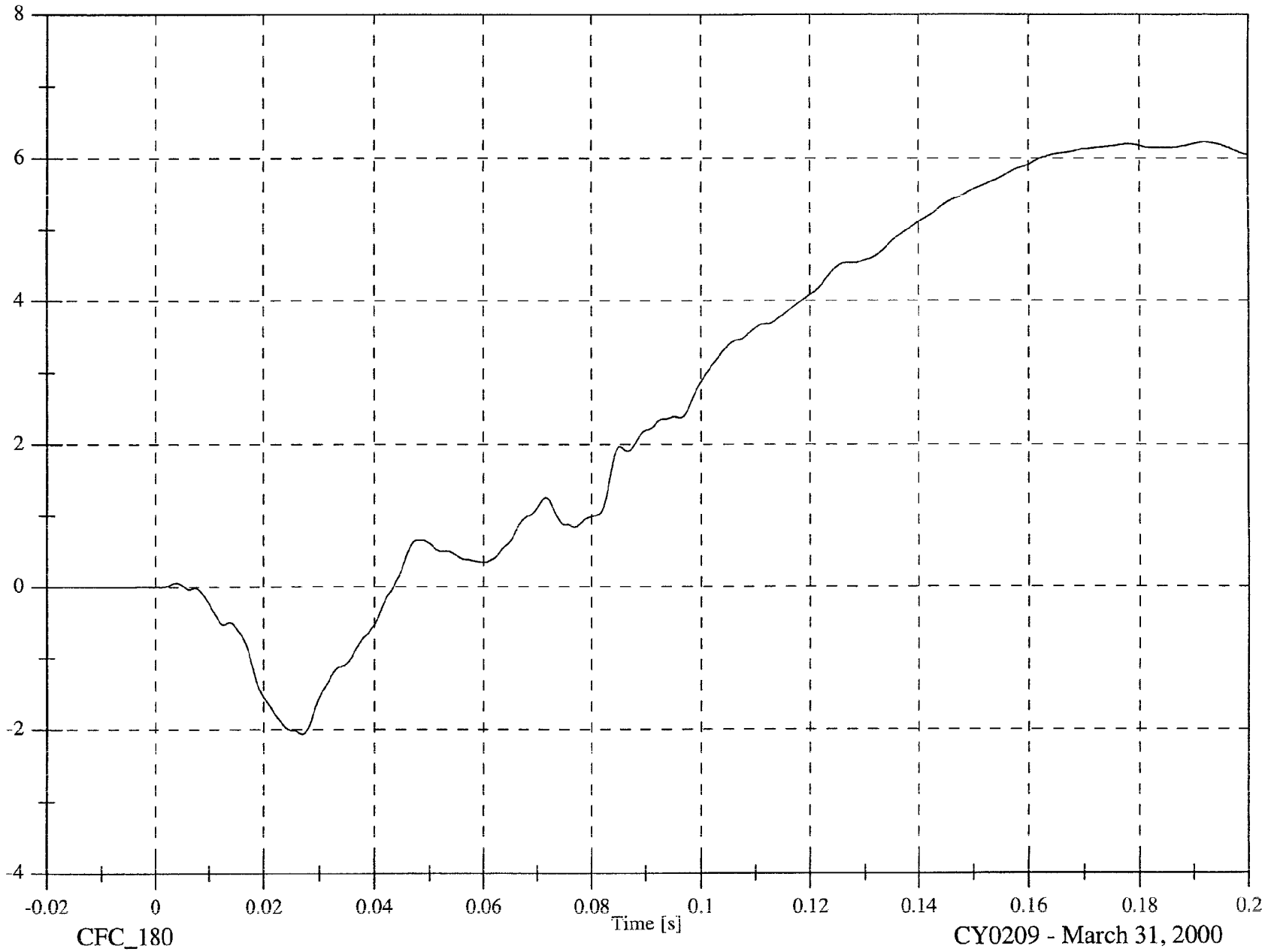

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 2 Right Rear Sill Y Velocity
Max: 26.7 [kph] at 0.075 [s]
Min: -0.0 [kph] at -0.018 [s]
kph
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 2 Right Rear Sill Z
Max: 6.5 [g] at 0.083 [s]
Min: -6.0 [g] at 0.018 [s]
7.5
5
2.5
0
-2.5
-5
-7.5
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

FMVSS 214D Test 8 - Ford Focus 3-Dr

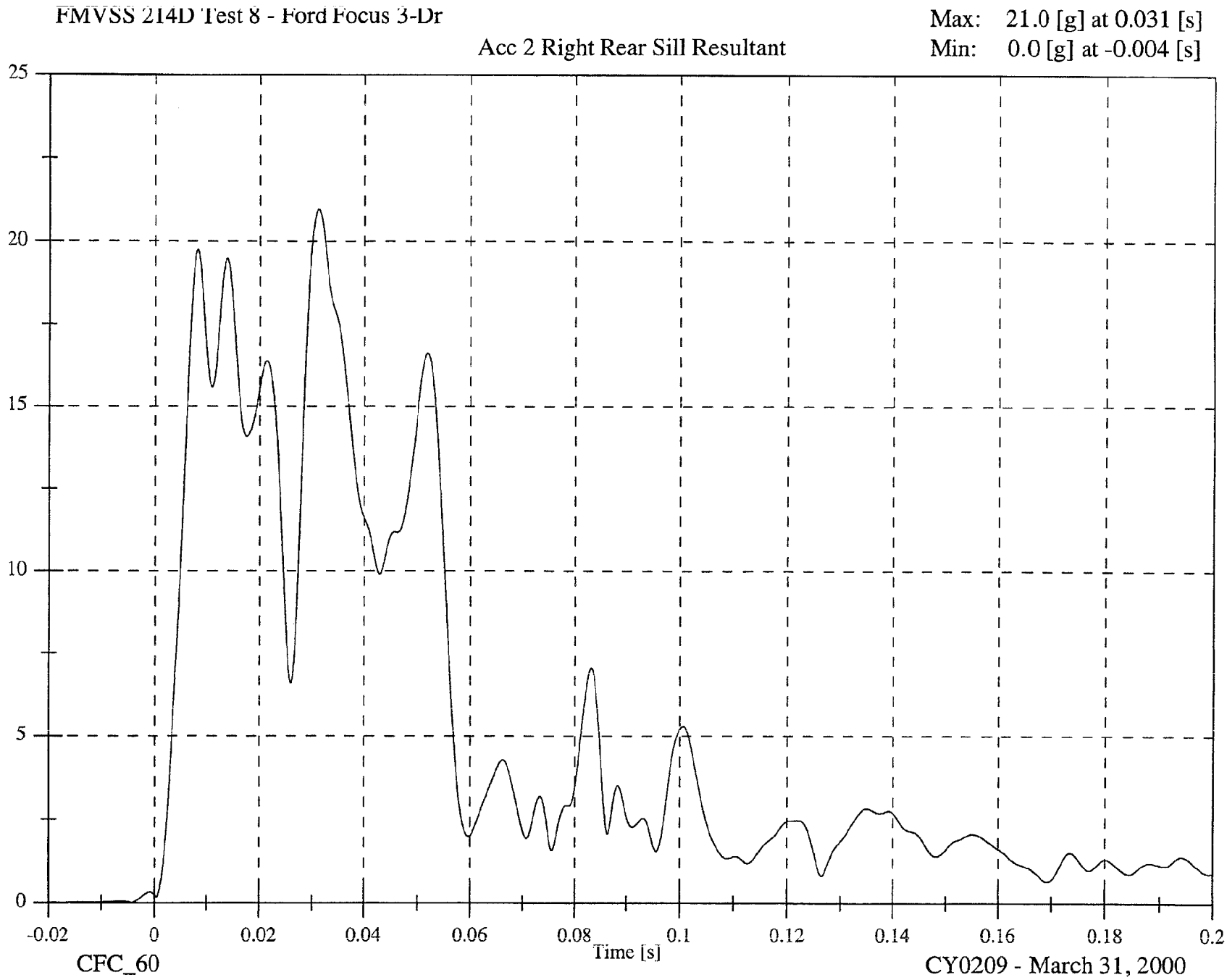
Acc 2 Right Rear Sill Z Velocity

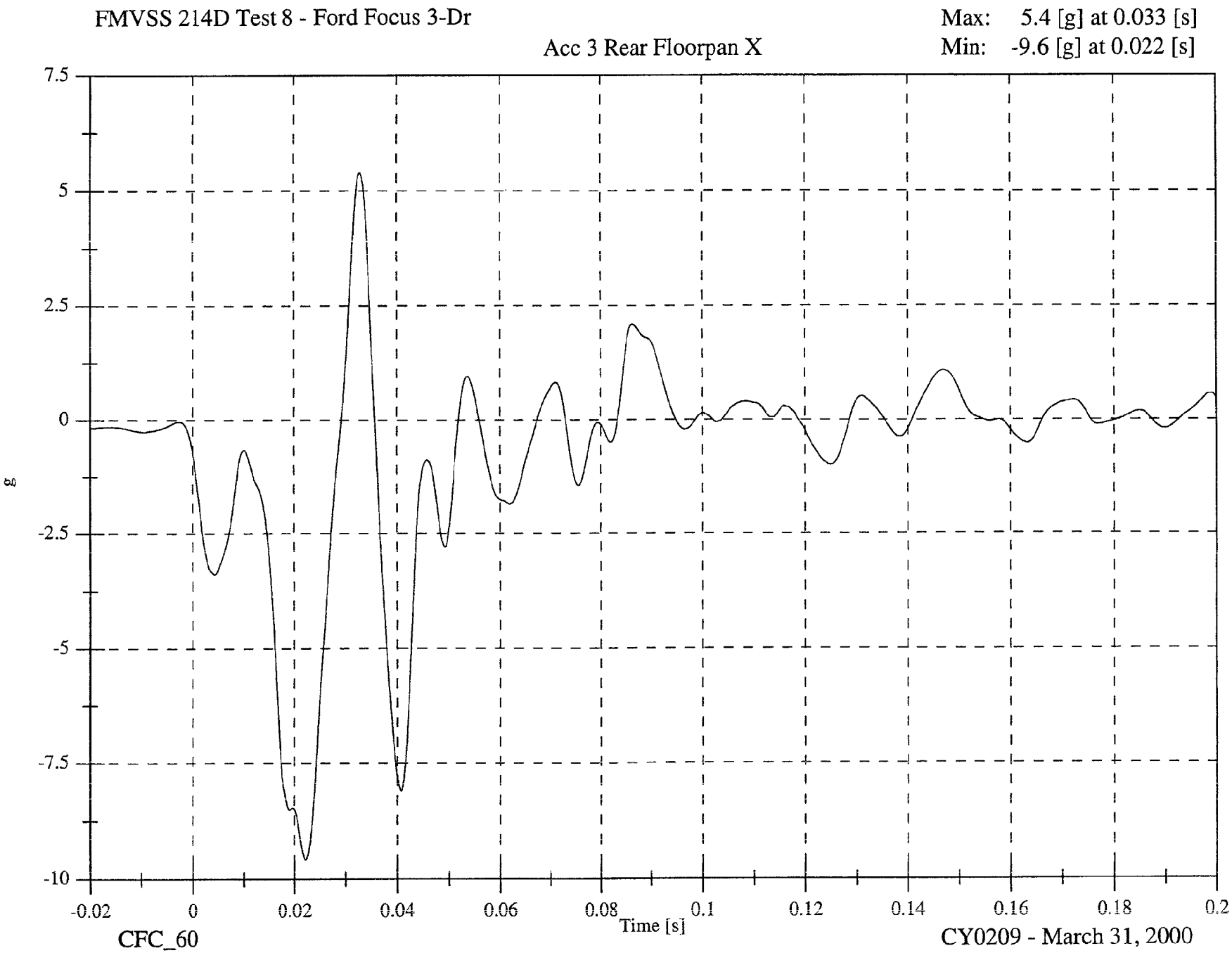
Max: 6.2 [kph] at 0.192 [s]
Min: -2.1 [kph] at 0.027 [s]

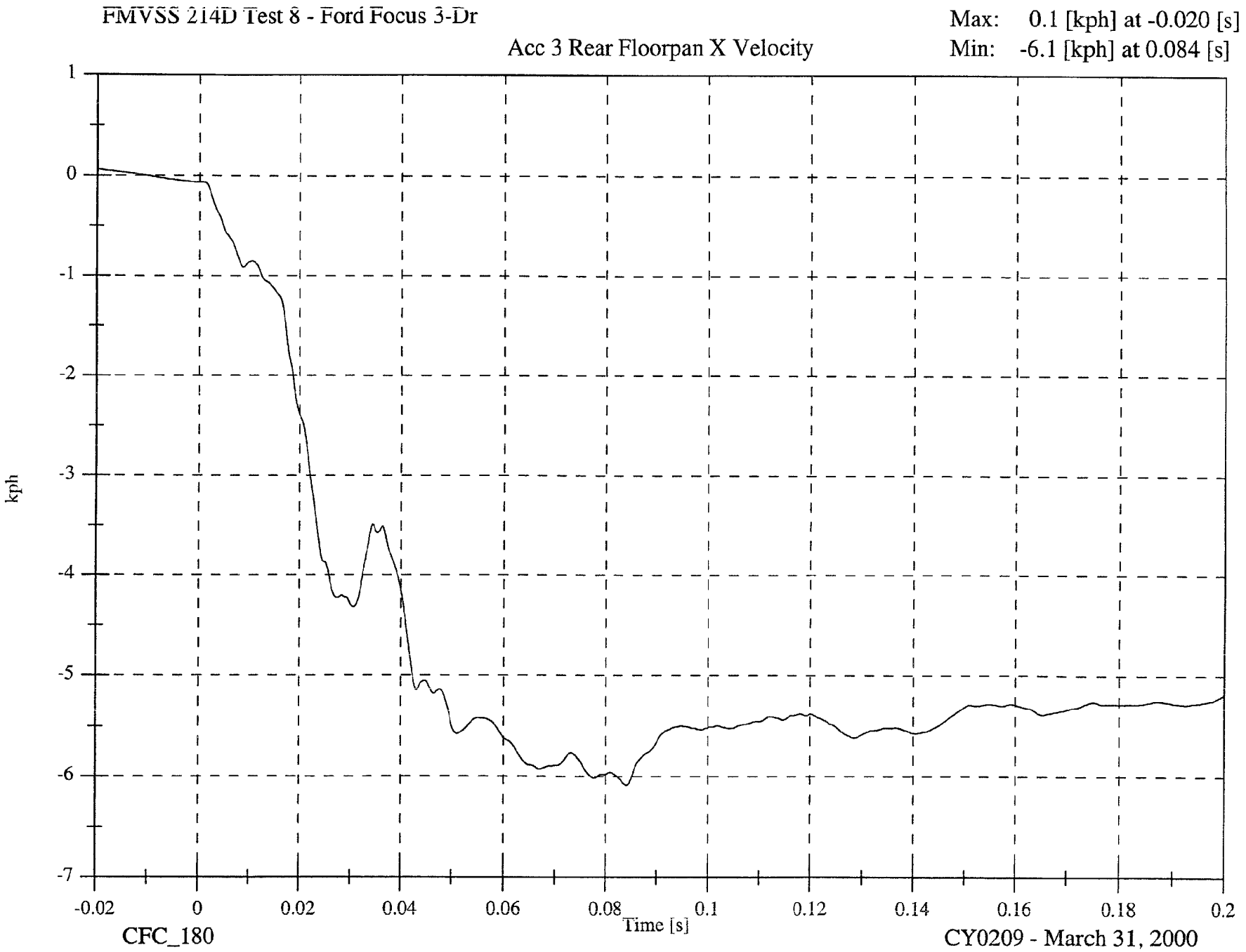


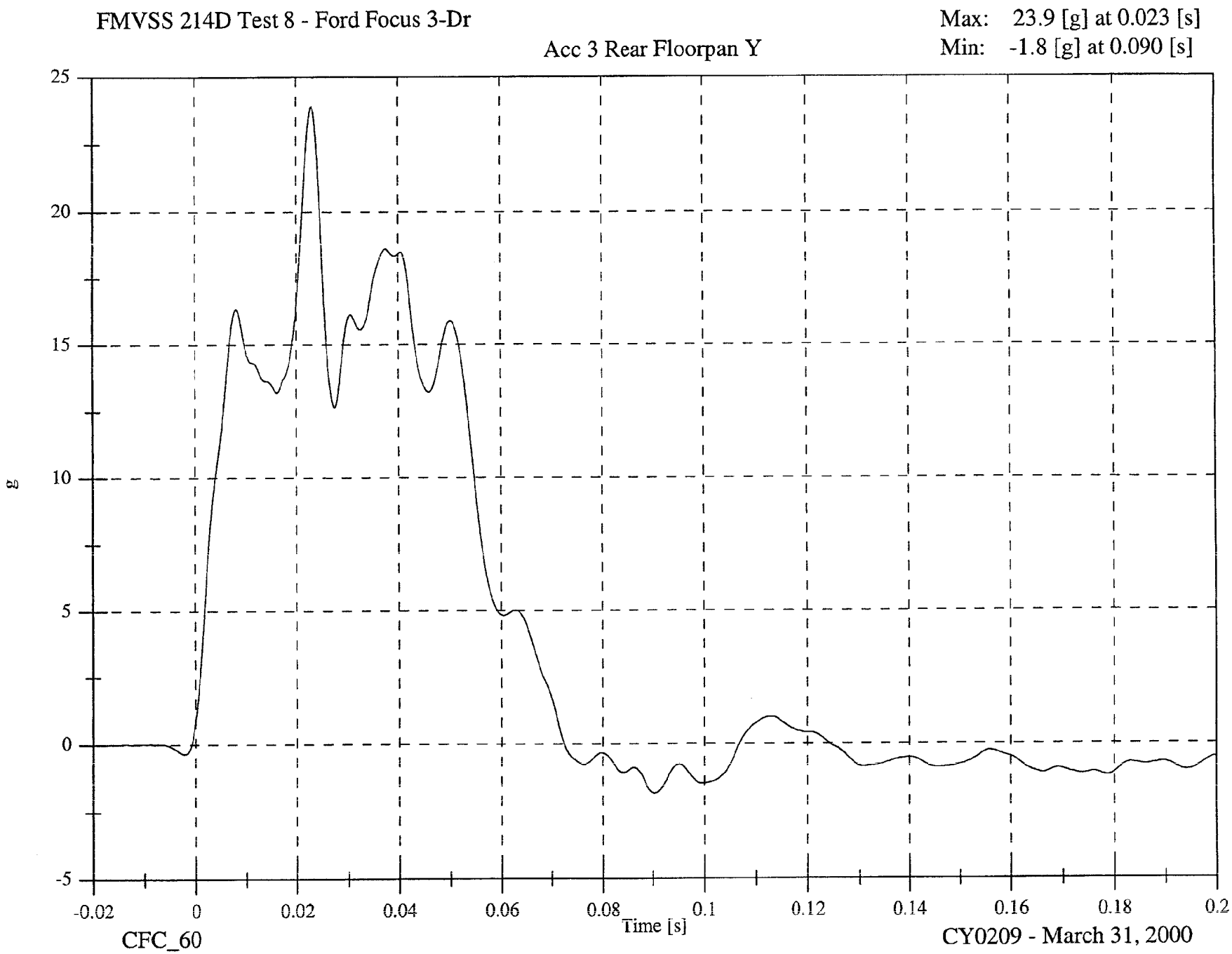
CFC_180

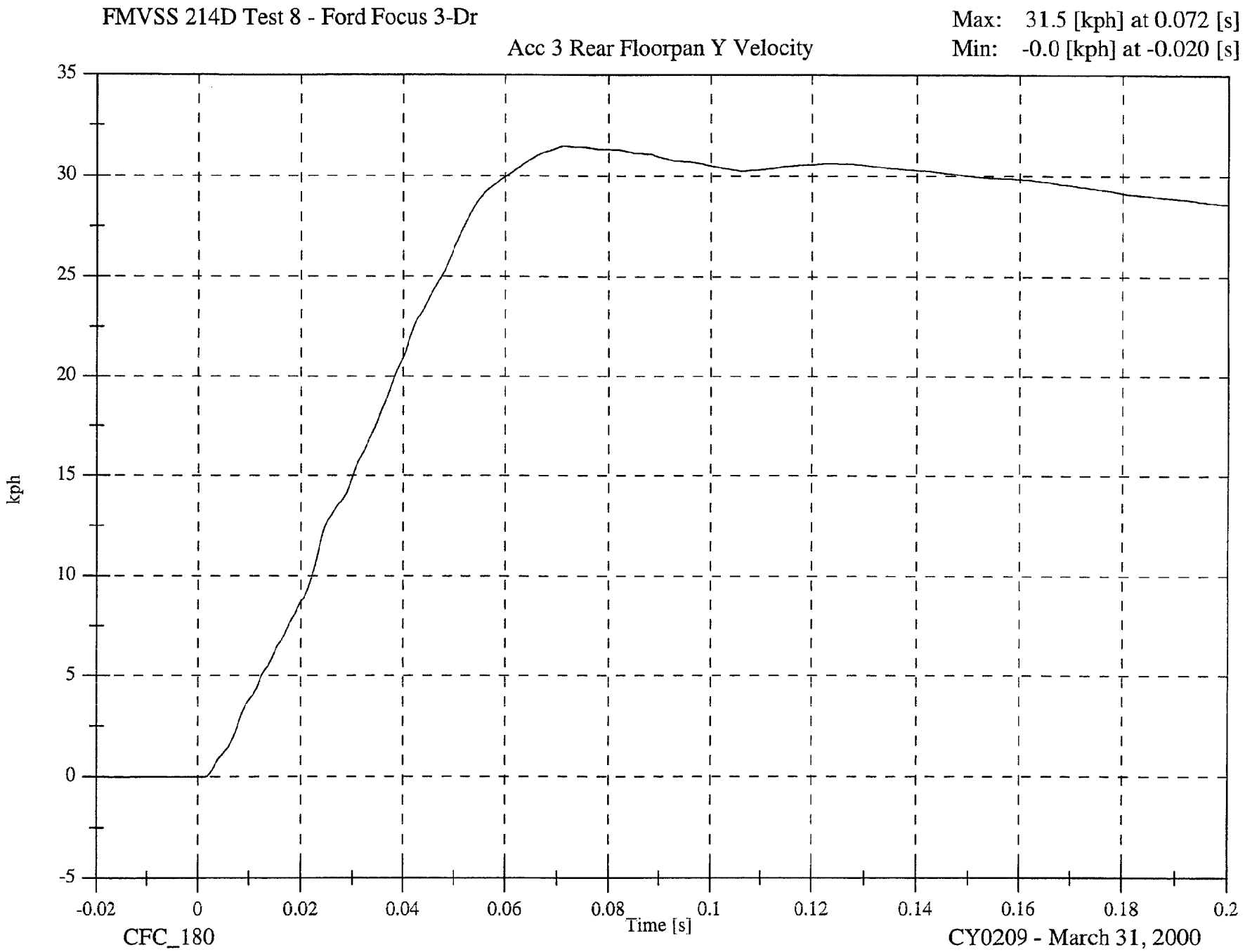
CY0209 - March 31, 2000

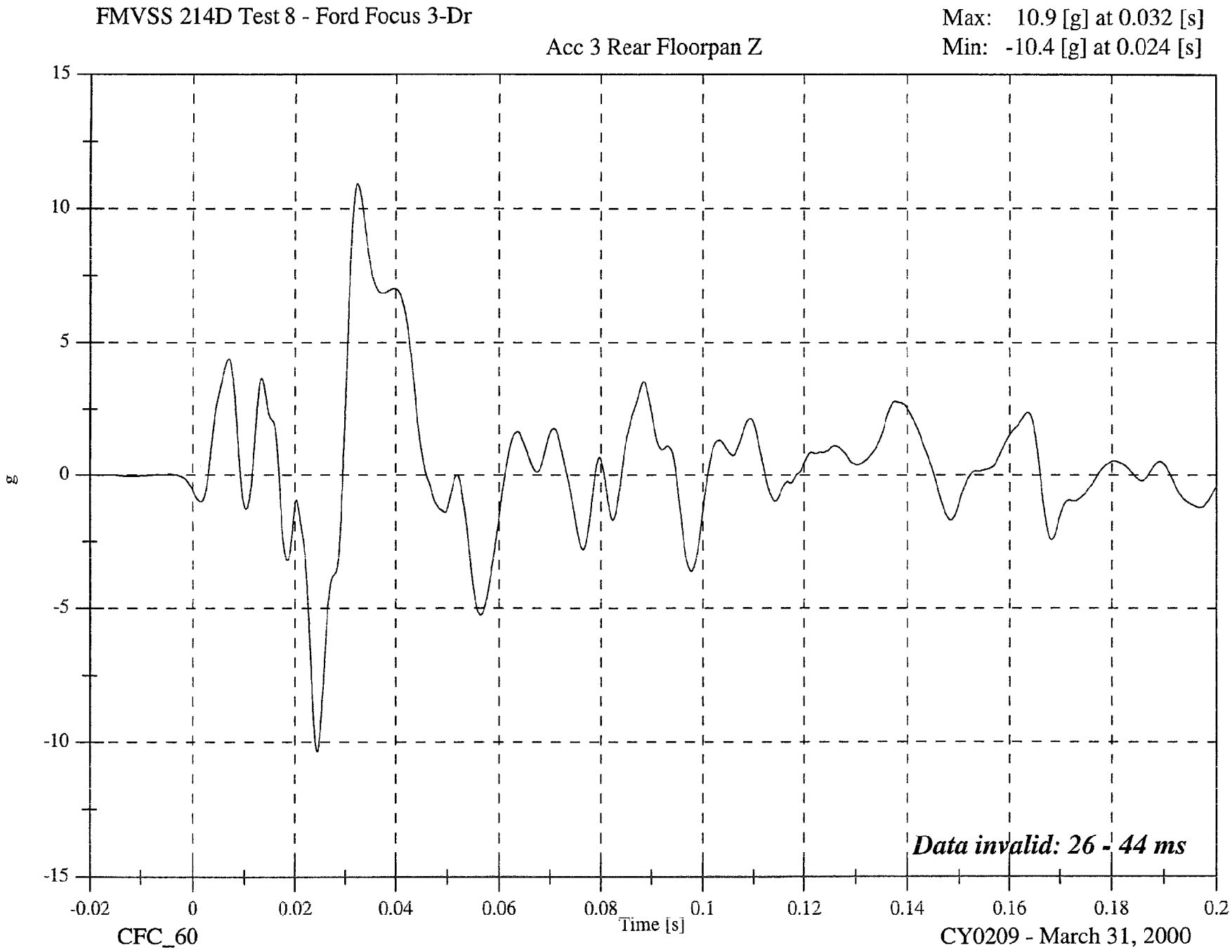

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 2 Right Rear Sill Resultant
Max: 21.0 [g] at 0.031 [s]
Min: 0.0 [g] at -0.004 [s]
25
20
15
10
5
0
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

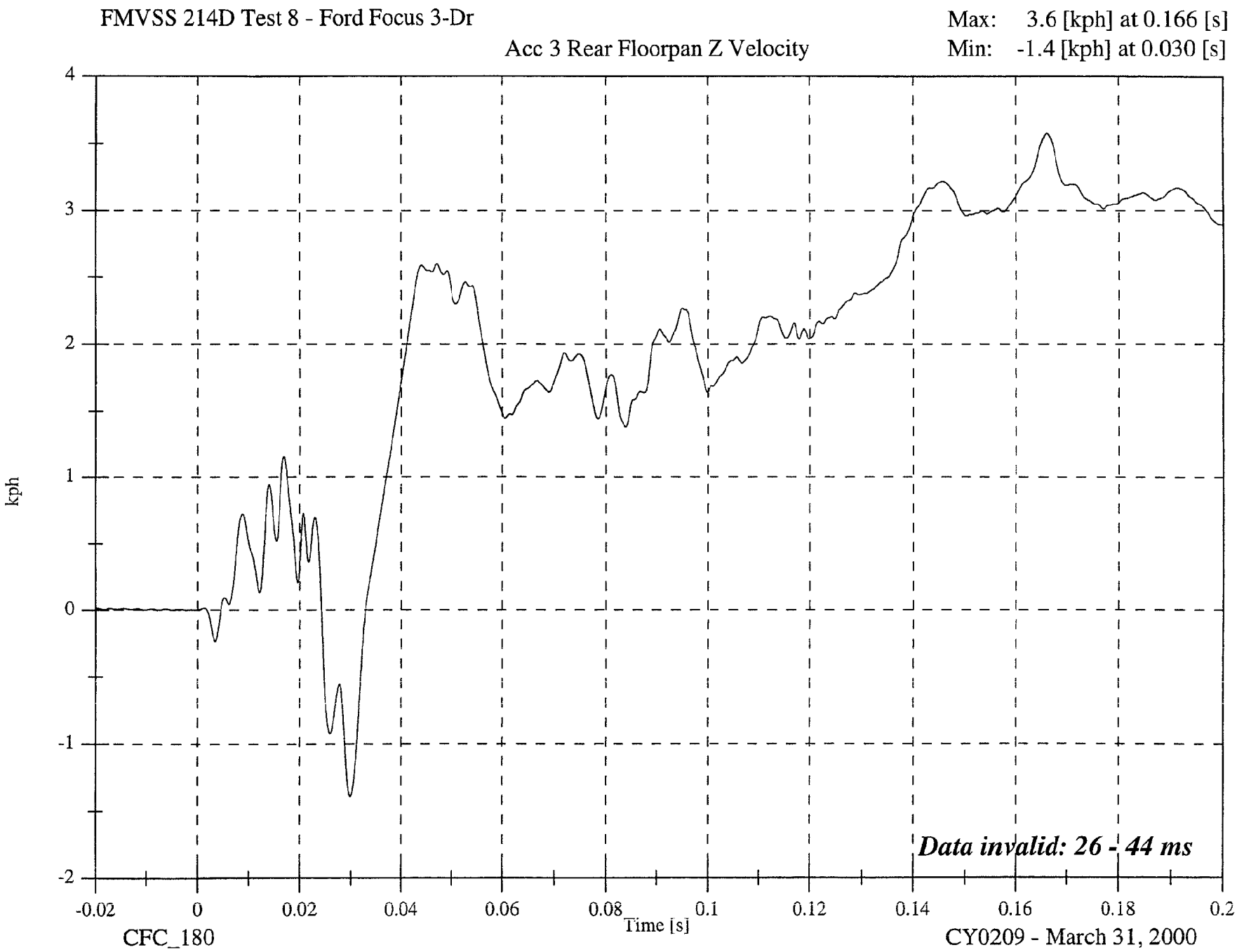

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 3 Rear Floorpan X
Max: 5.4 [g] at 0.033 [s]
Min: -9.6 [g] at 0.022 [s]
7.5
5
2.5
0
-2.5
-5
-7.5
-10
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

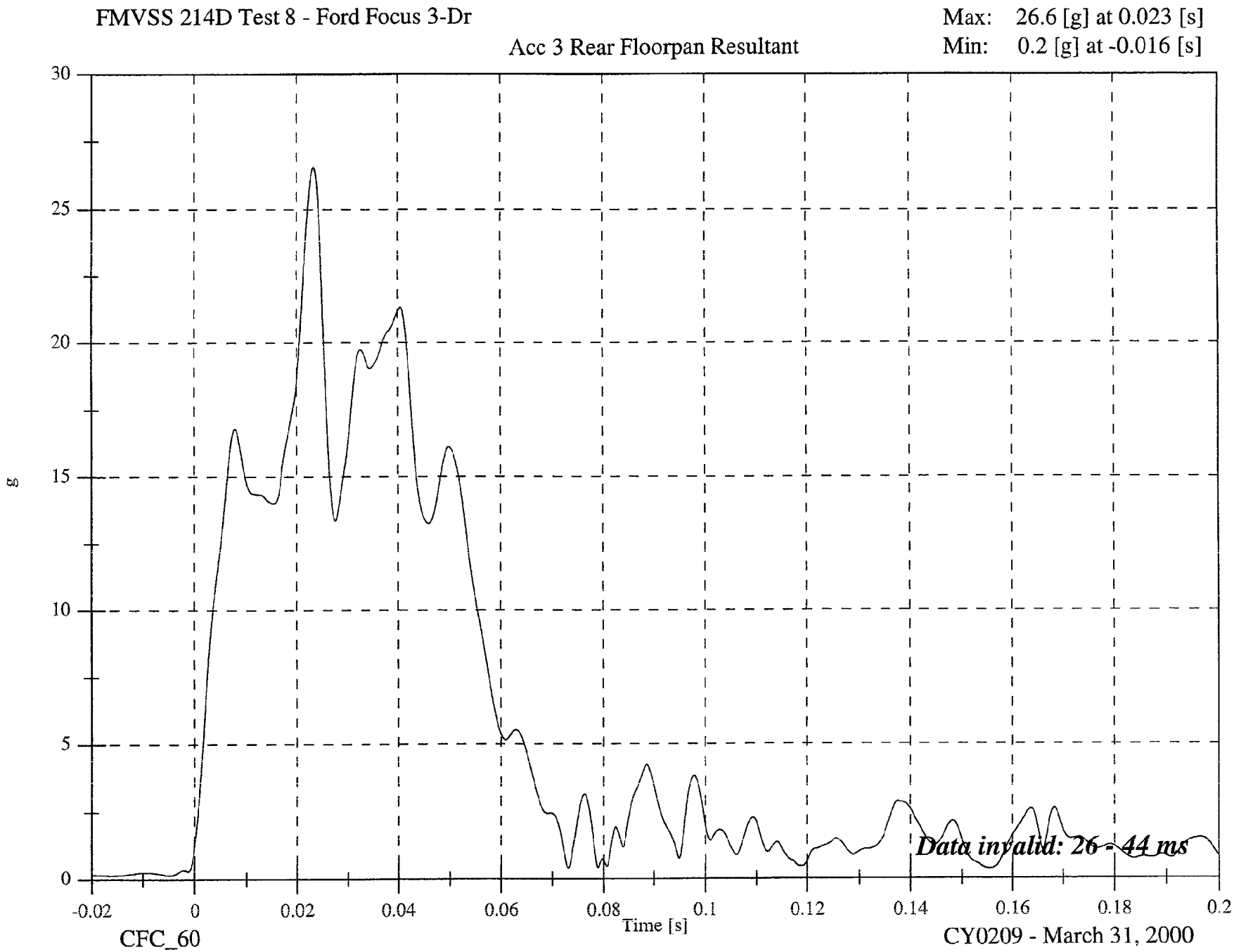

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 3 Rear Floorpan X Velocity
Max: 0.1 [kph] at -0.020 [s]
Min: -6.1 [kph] at 0.084 [s]
kph
1
0
-1
-2
-3
-4
-5
-6
-7
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

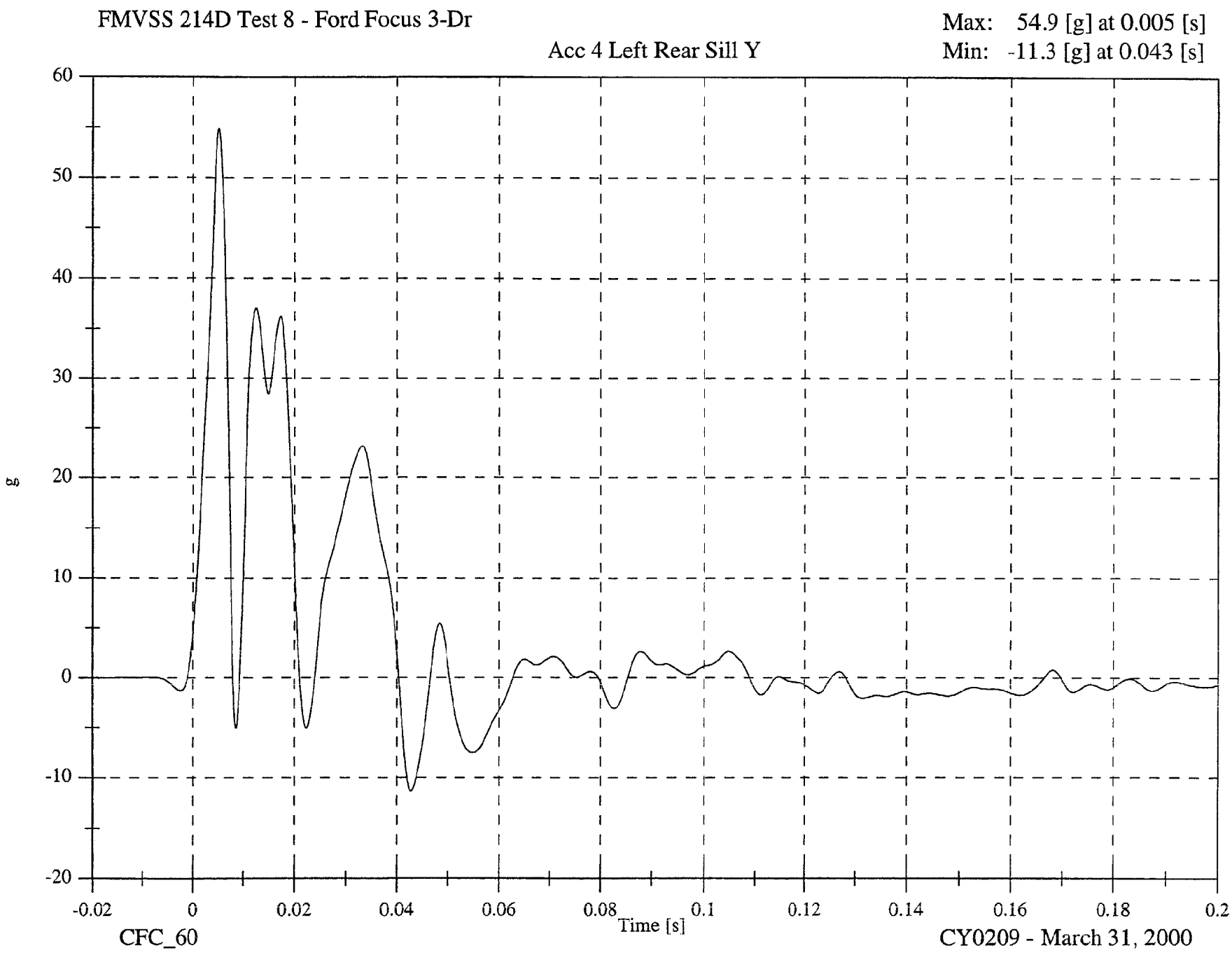

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 3 Rear Floorpan Y
Max: 23.9 [g] at 0.023 [s]
Min: -1.8 [g] at 0.090 [s]
g
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

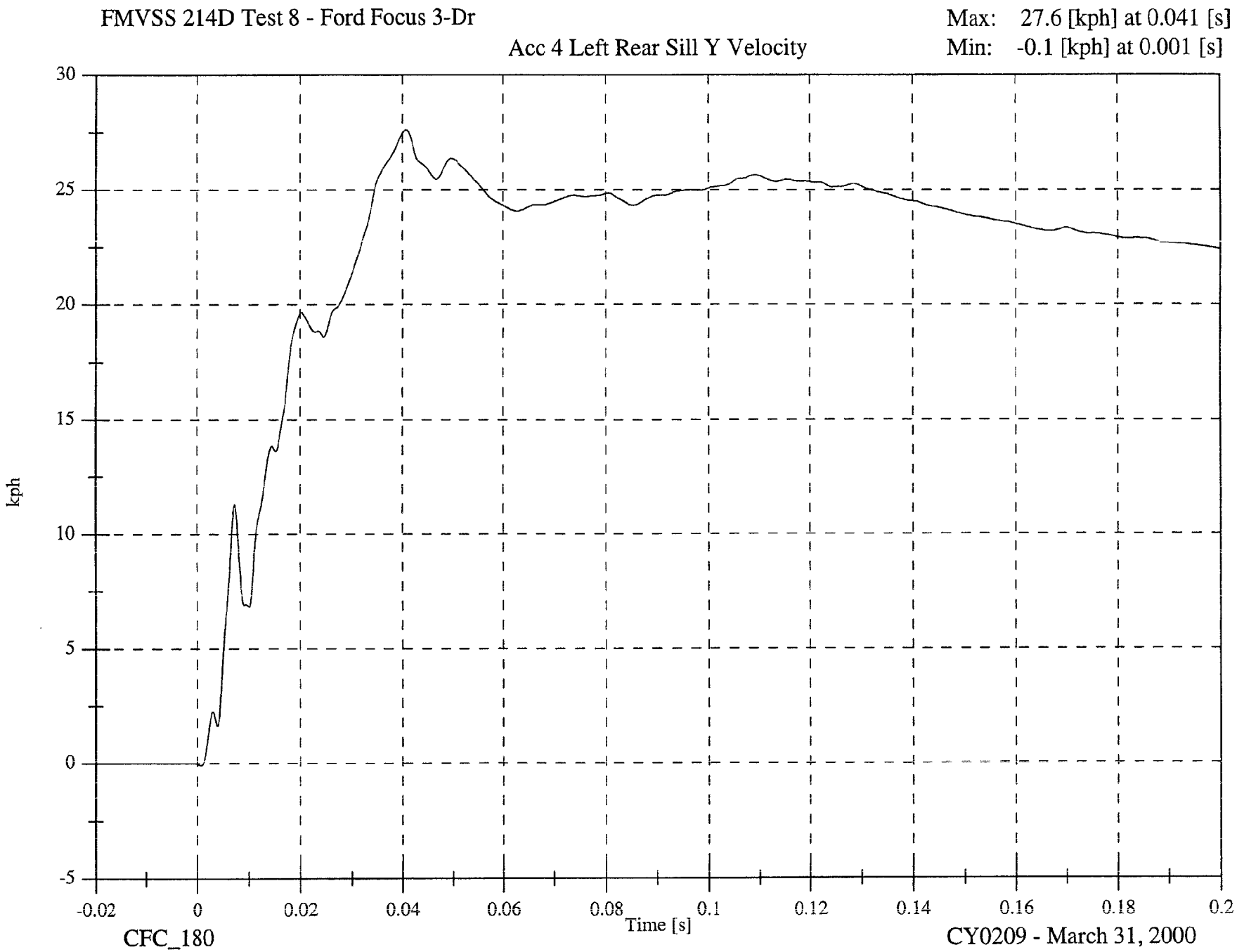

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 3 Rear Floorpan Y Velocity
Max: 31.5 [kph] at 0.072 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

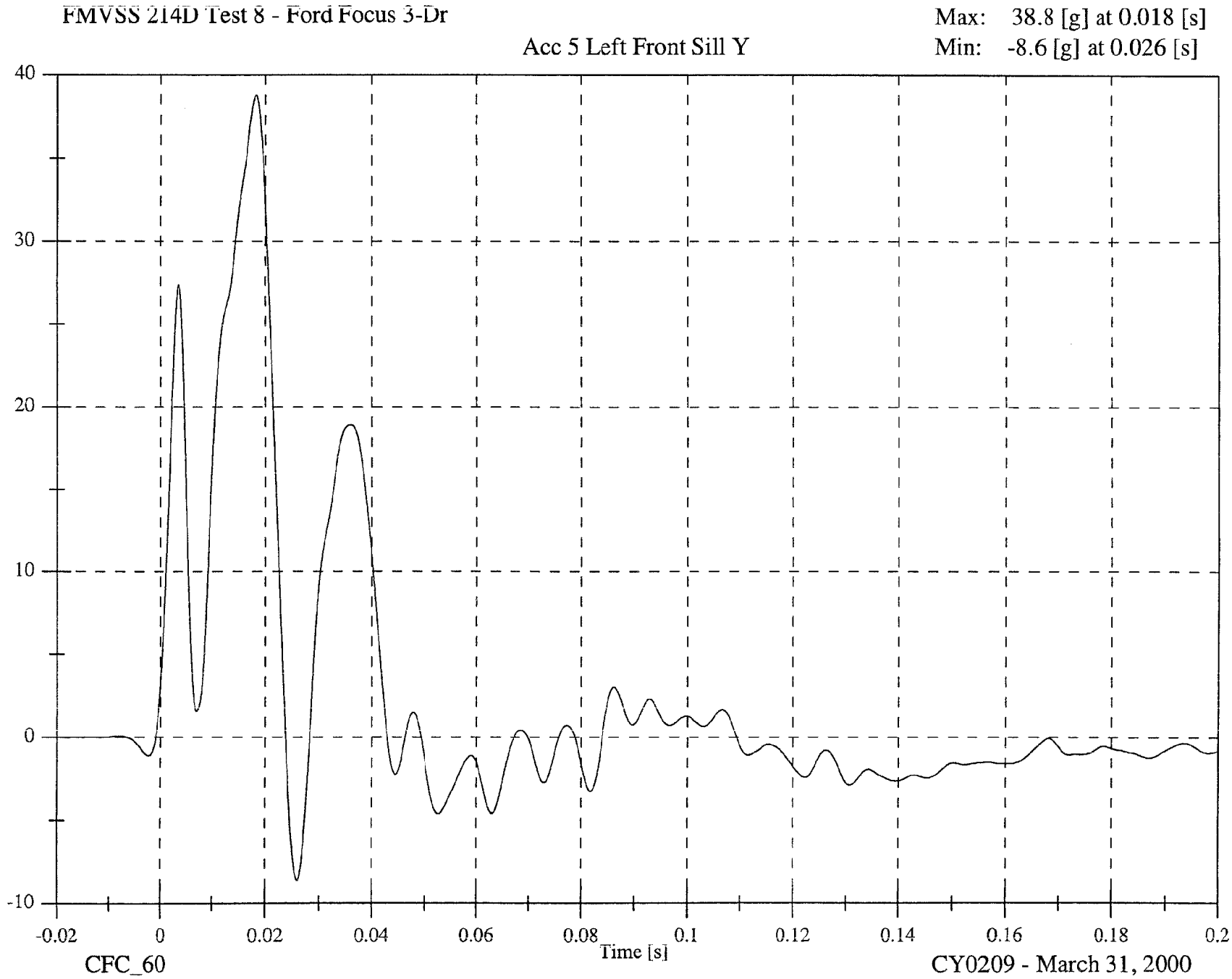

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 3 Rear Floorpan Z
Max: 10.9 [g] at 0.032 [s]
Min: -10.4 [g] at 0.024 [s]
15
10
5
0
-5
-10
-15
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
Data invalid: 26 - 44 ms
CFC_60
CY0209 - March 31, 2000

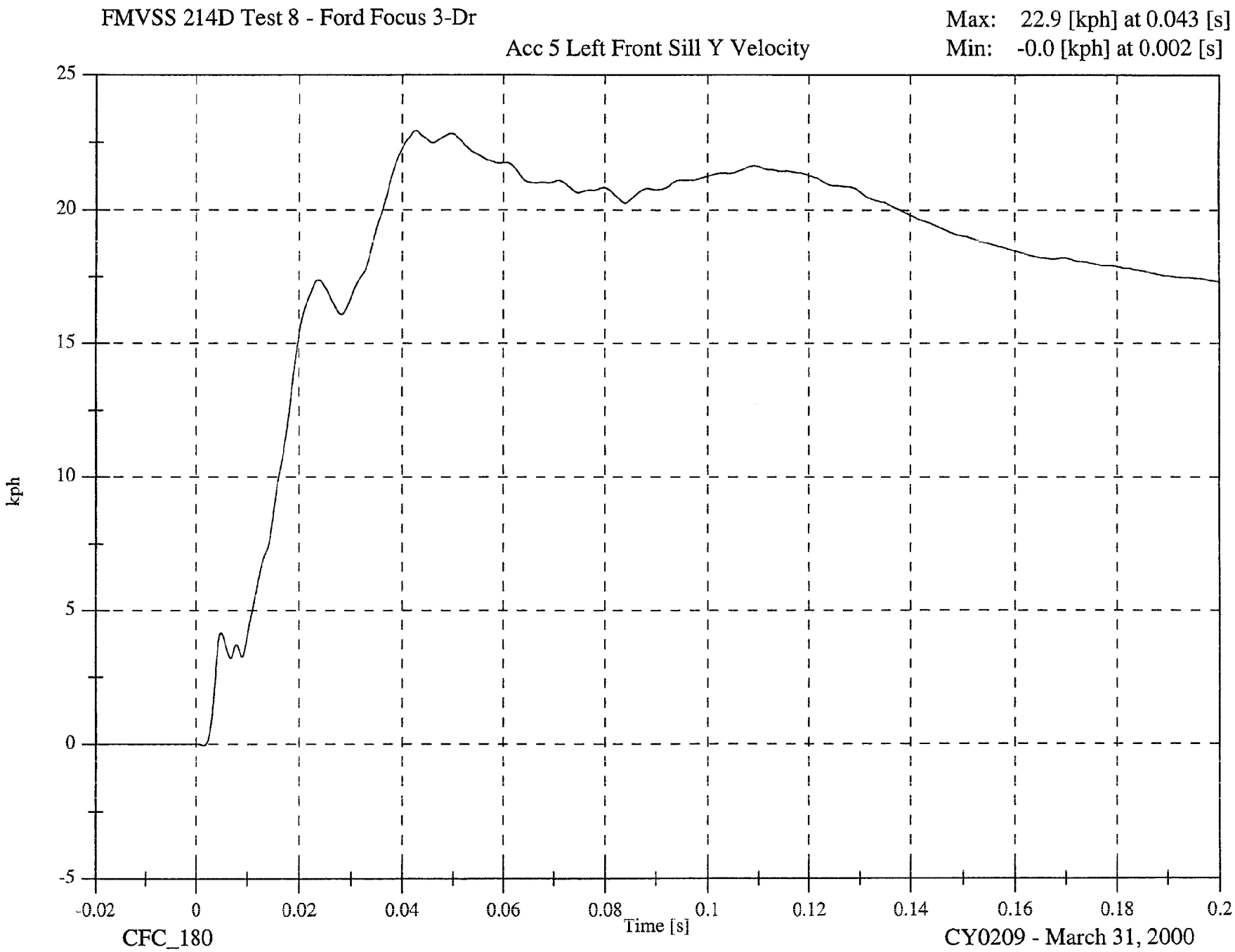

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 3 Rear Floorpan Z Velocity
Max: 3.6 [kph] at 0.166 [s]
Min: -1.4 [kph] at 0.030 [s]
kph
4
3
2
1
0
-1
-2
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
Data invalid: 26 - 44 ms
CFC_180
CY0209 - March 31, 2000

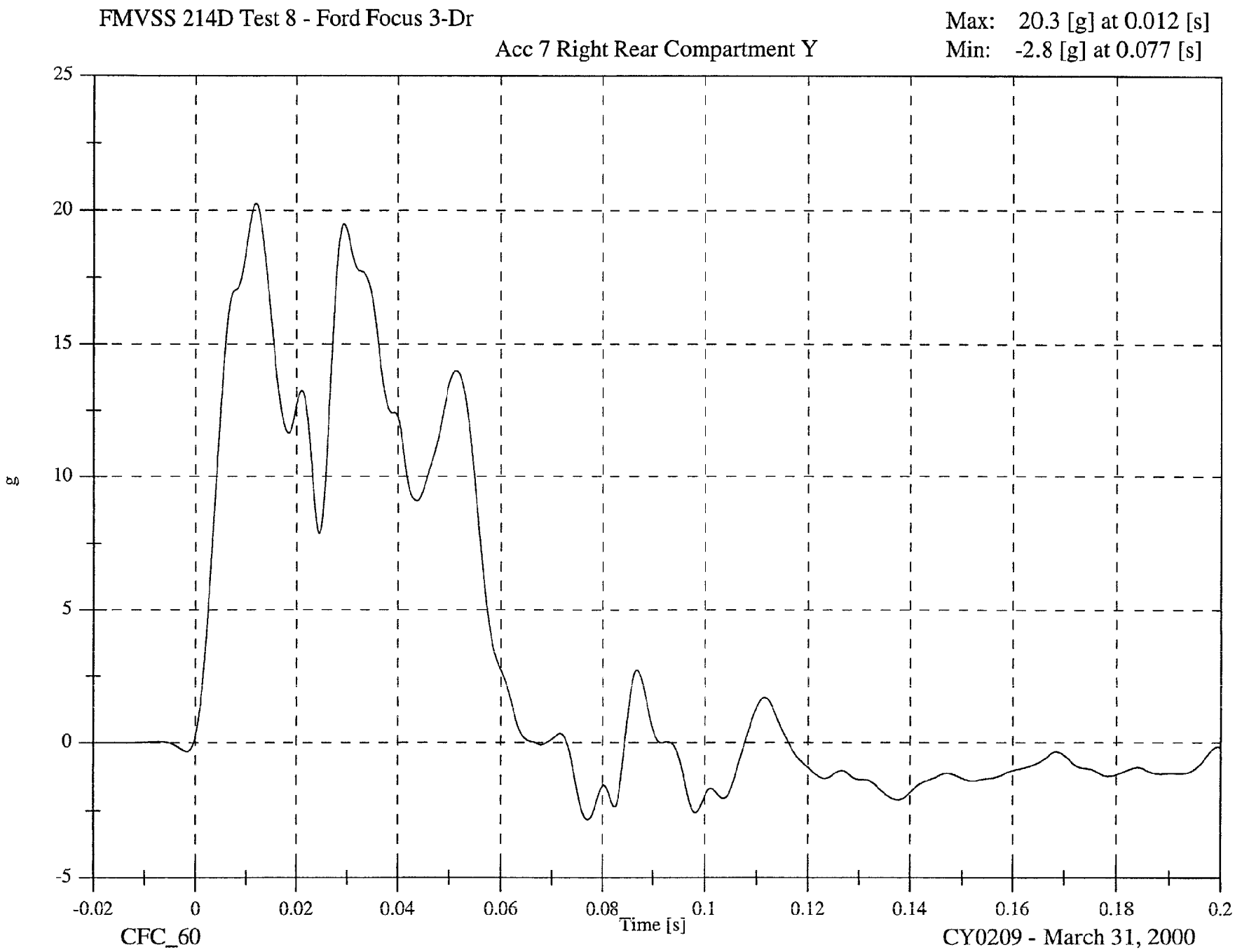

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 3 Rear Floorpan Resultant
Max: 26.6 [g] at 0.023 [s]
Min: 0.2 [g] at -0.016 [s]
g
30
25
20
15
10
5
0
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
Data invalid: 26 - 44 ms
CFC_60
CY0209 - March 31, 2000

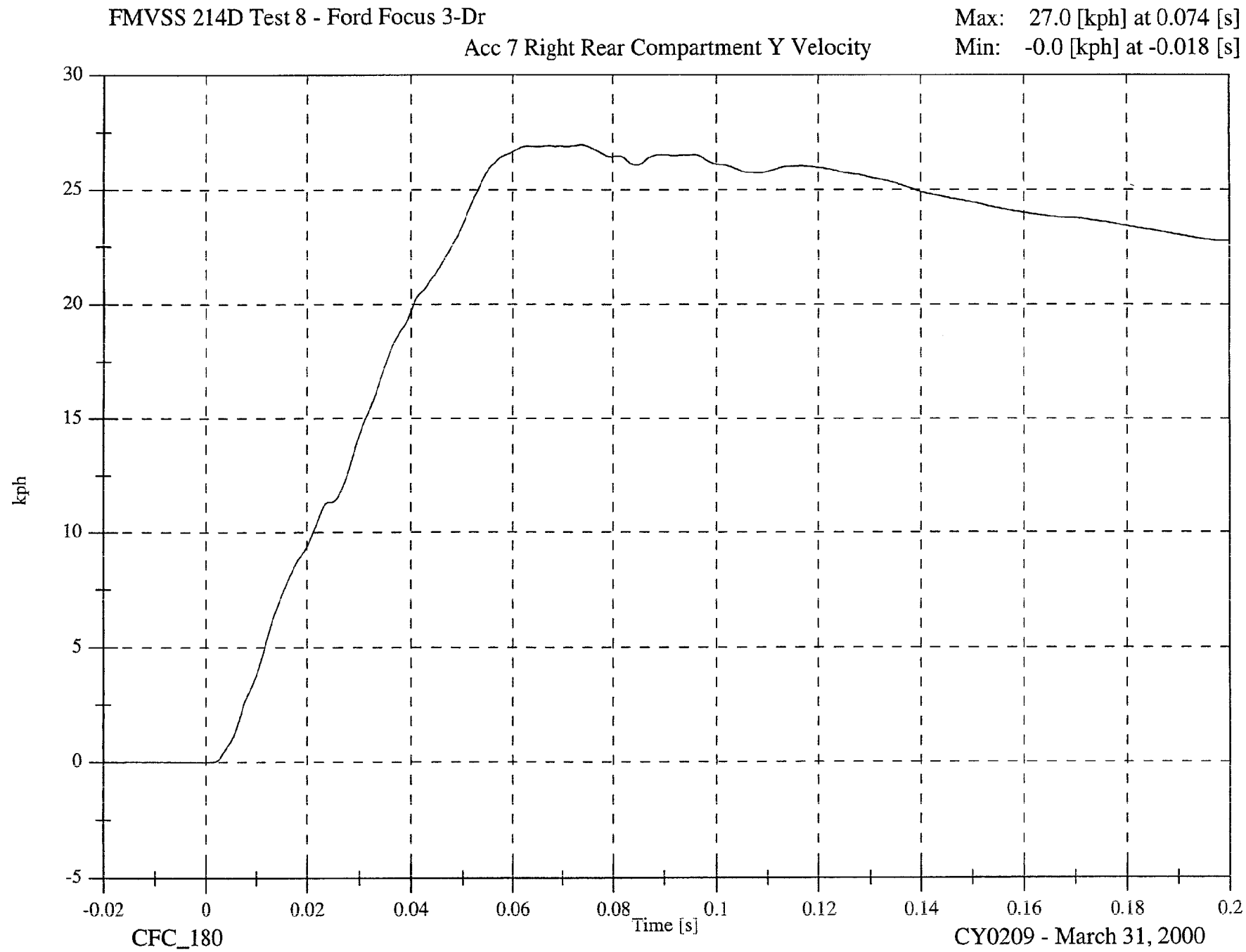

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 4 Left Rear Sill Y
Max: 54.9 [g] at 0.005 [s]
Min: -11.3 [g] at 0.043 [s]
60
50
40
30
20
10
0
-10
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

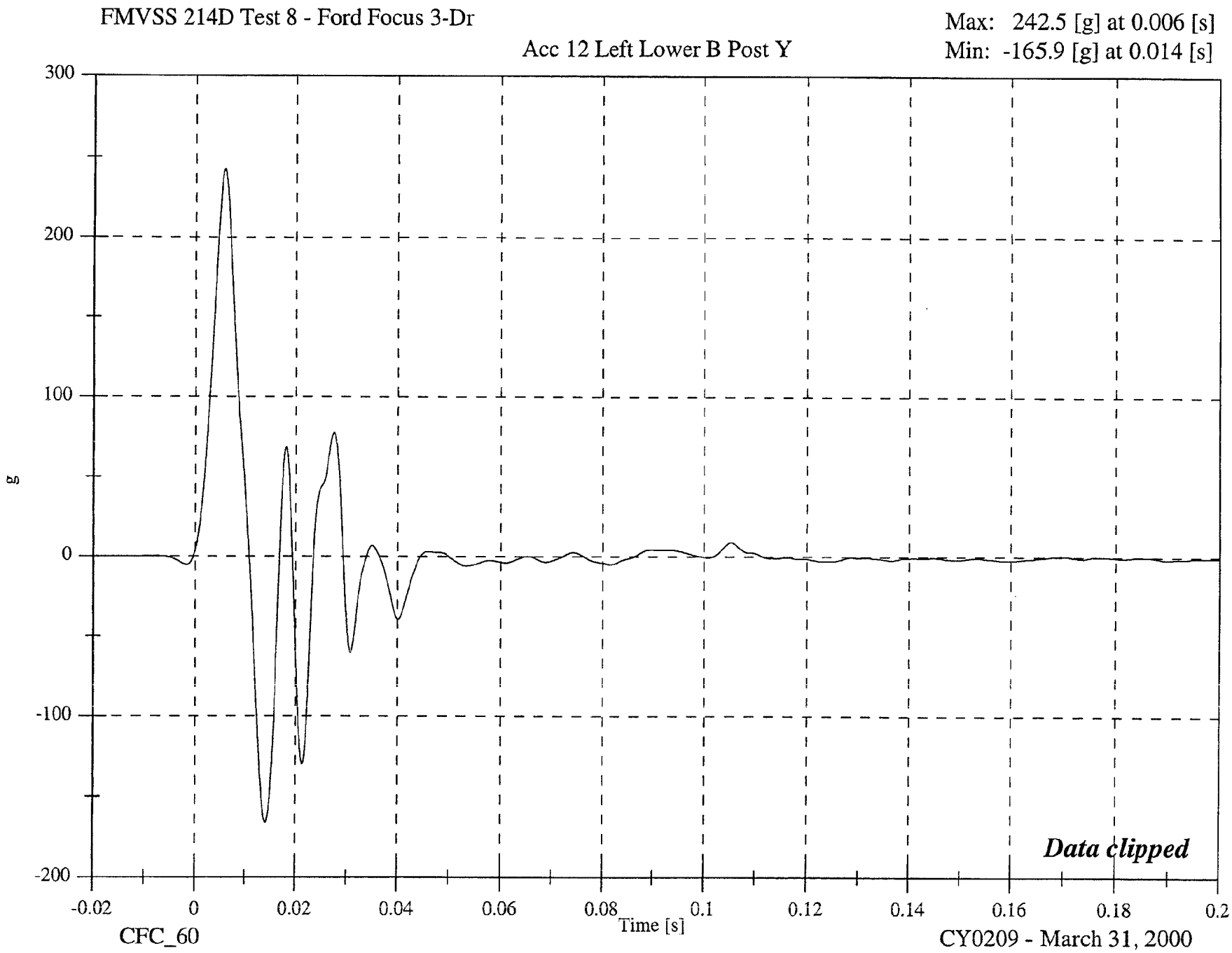

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 4 Left Rear Sill Y Velocity
Max: 27.6 [kph] at 0.041 [s]
Min: -0.1 [kph] at 0.001 [s]
kph
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

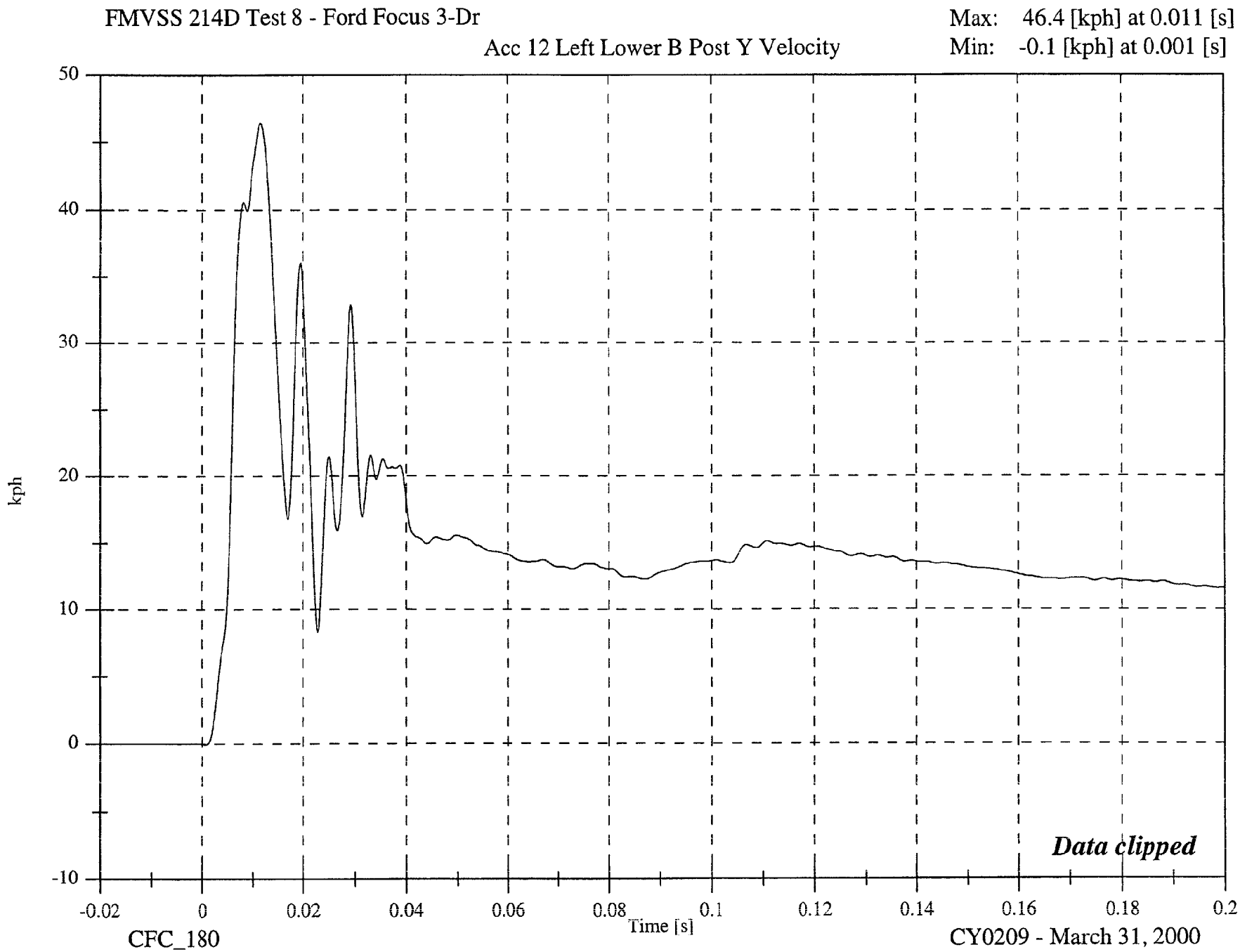

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 5 Left Front Sill Y
Max: 38.8 [g] at 0.018 [s]
Min: -8.6 [g] at 0.026 [s]
40
30
20
10
0
-10
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

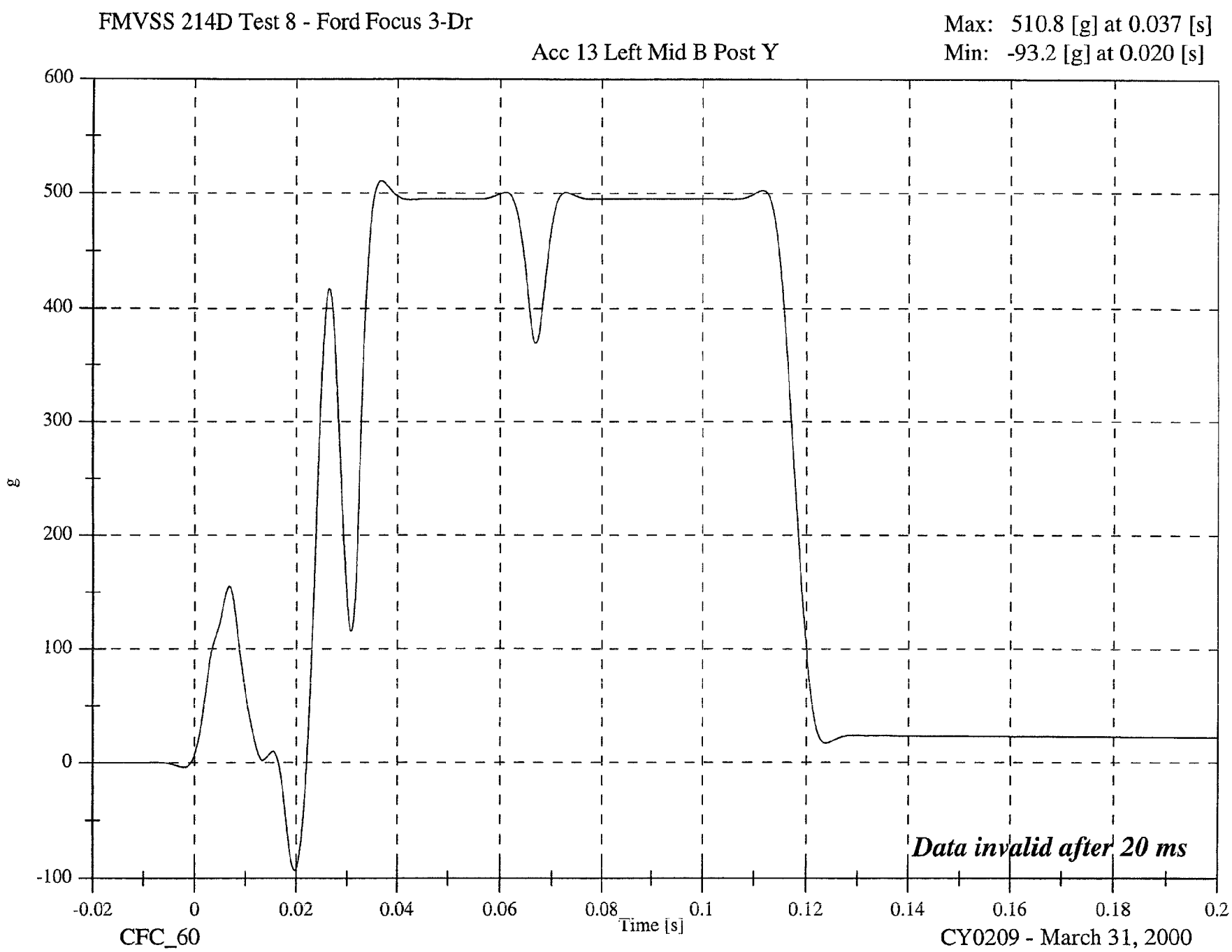

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 5 Left Front Sill Y Velocity
Max: 22.9 [kph] at 0.043 [s]
Min: -0.0 [kph] at 0.002 [s]
kph
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

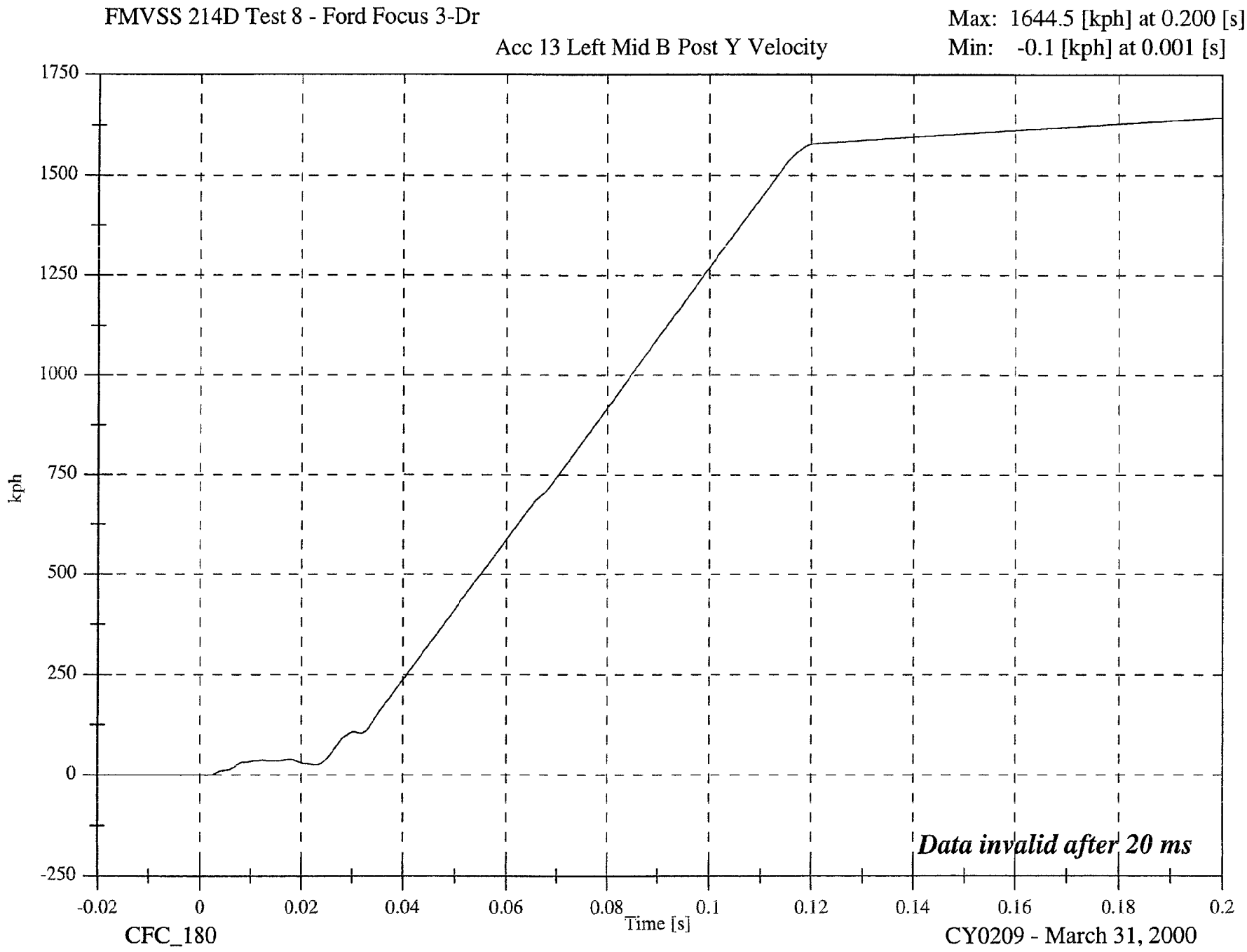

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 7 Right Rear Compartment Y
Max: 20.3 [g] at 0.012 [s]
Min: -2.8 [g] at 0.077 [s]
25
20
15
10
5
0
-5
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

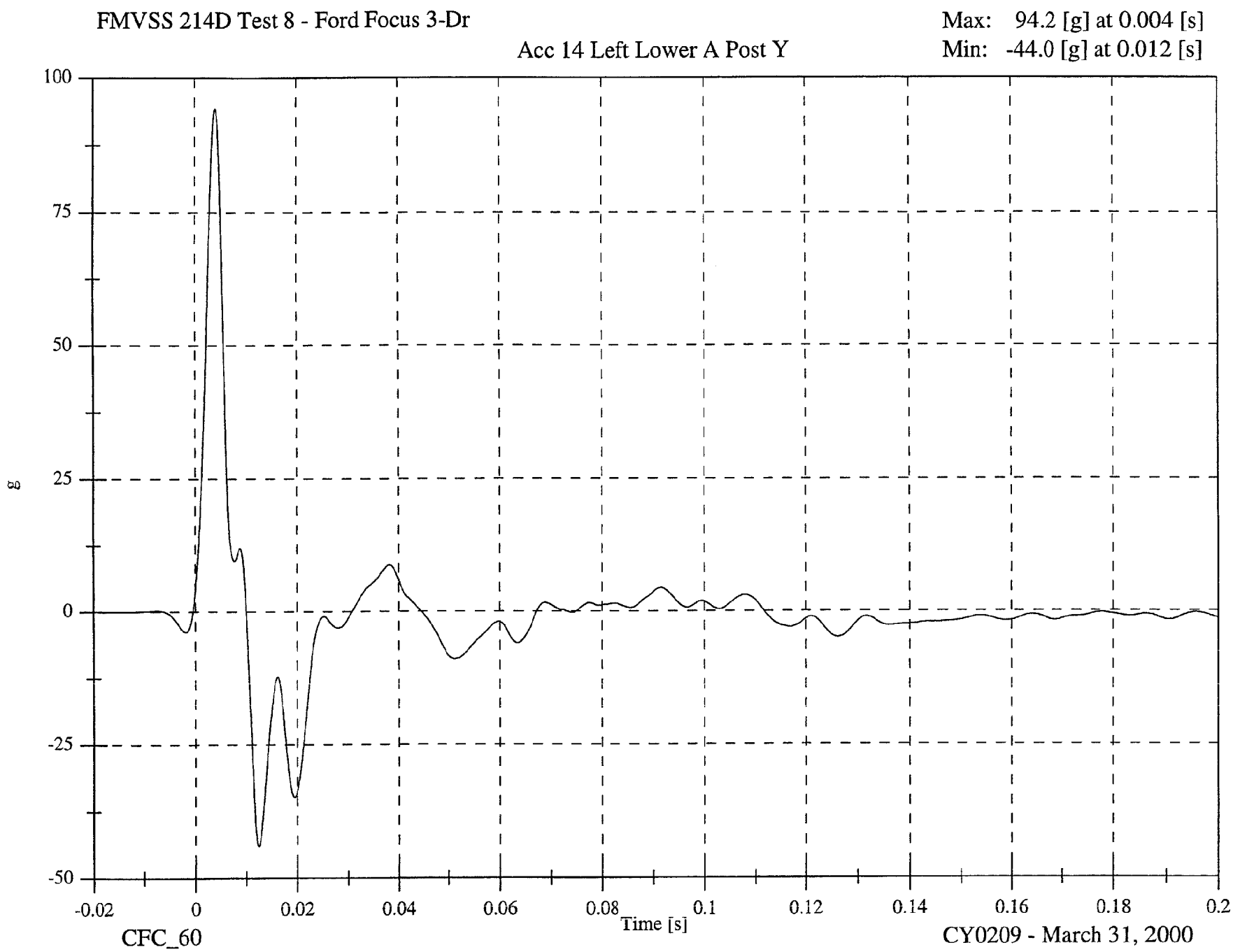

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 7 Right Rear Compartment Y Velocity
Max: 27.0 [kph] at 0.074 [s]
Min: -0.0 [kph] at -0.018 [s]
kph
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 12 Left Lower B Post Y
Max: 242.5 [g] at 0.006 [s]
Min: -165.9 [g] at 0.014 [s]
300
200
100
0
-100
-200
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
Data clipped
CFC_60
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 12 Left Lower B Post Y Velocity
Max: 46.4 [kph] at 0.011 [s]
Min: -0.1 [kph] at 0.001 [s]
kph
50
40
30
20
10
0
-10
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
Data clipped
CFC_180
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 13 Left Mid B Post Y
Max: 510.8 [g] at 0.037 [s]
Min: -93.2 [g] at 0.020 [s]
600
500
400
300
200
100
0
-100
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
Data invalid after 20 ms
CFC_60
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 13 Left Mid B Post Y Velocity
Max: 1644.5 [kph] at 0.200 [s]
Min: -0.1 [kph] at 0.001 [s]
1750
1500
1250
1000
750
500
250
0
-250
kph
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
Data invalid after 20 ms
CFC_180
CY0209 - March 31, 2000

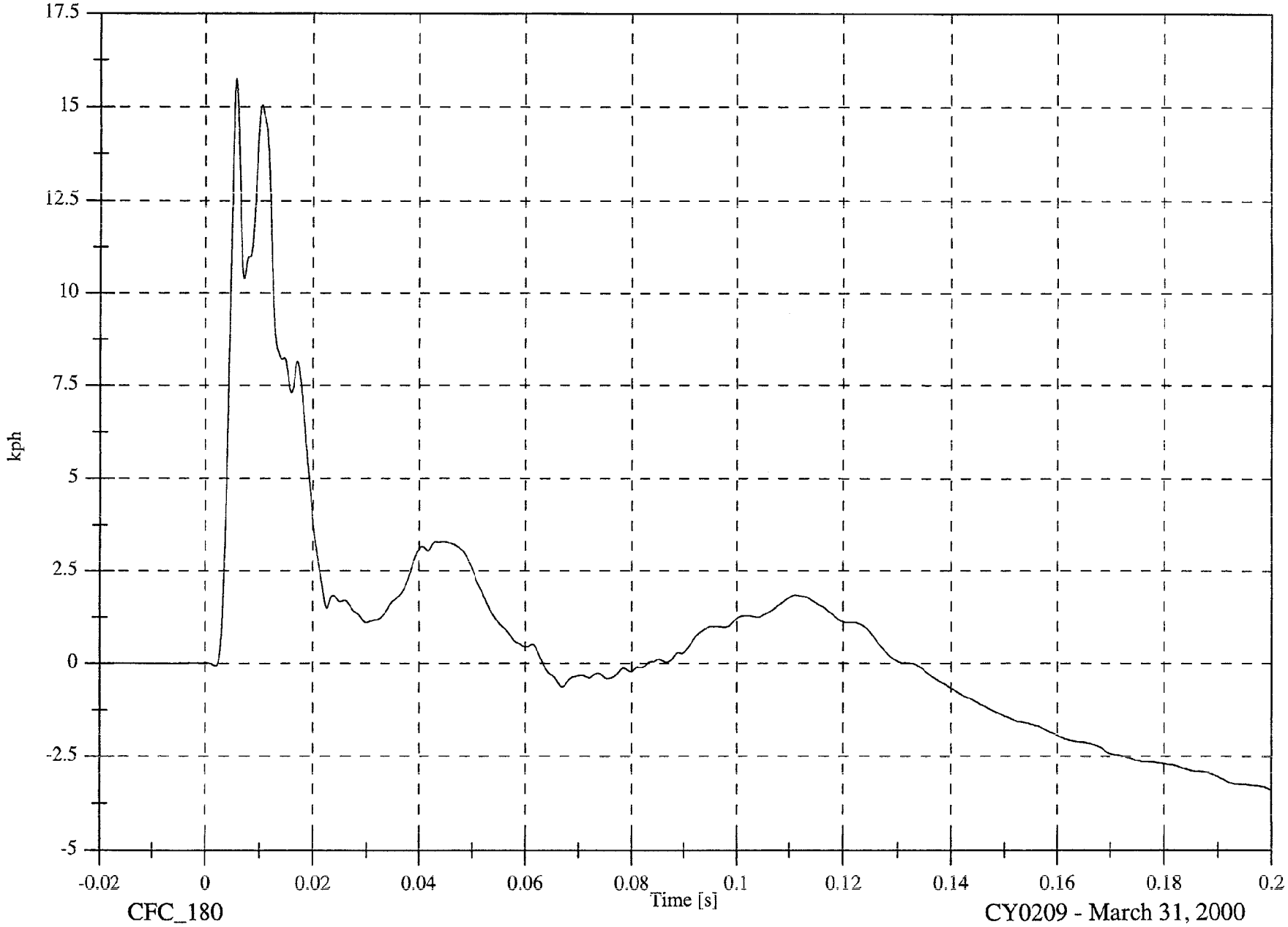

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 14 Left Lower A Post Y
Max: 94.2 [g] at 0.004 [s]
Min: -44.0 [g] at 0.012 [s]
100
75
50
25
0
-25
-50
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

FMVSS 214D Test 8 - Ford Focus 3-Dr

Acc 14 Left Lower A Post Y Velocity

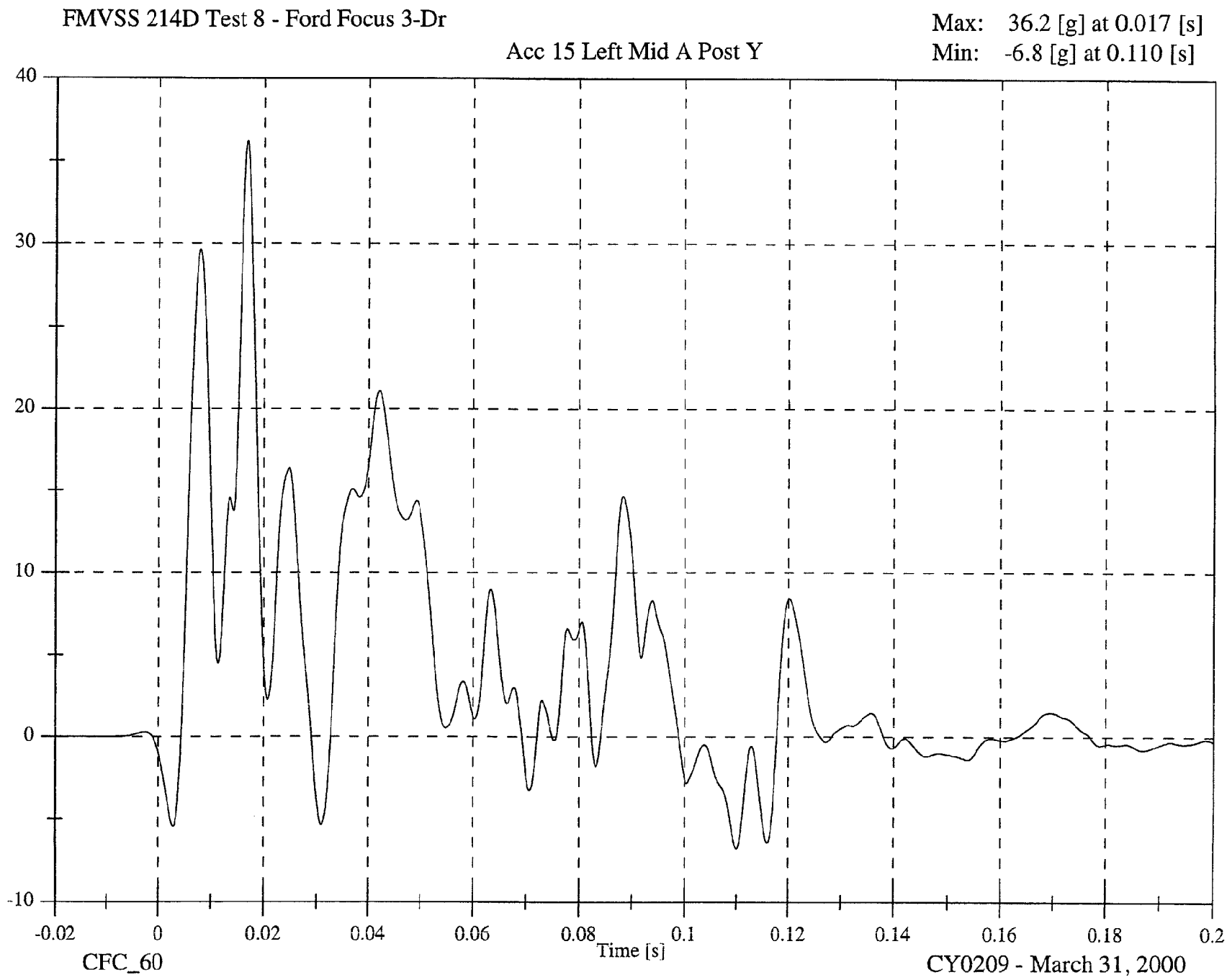
Max: 15.7 [kph] at 0.006 [s]

Min: -3.4 [kph] at 0.200 [s]

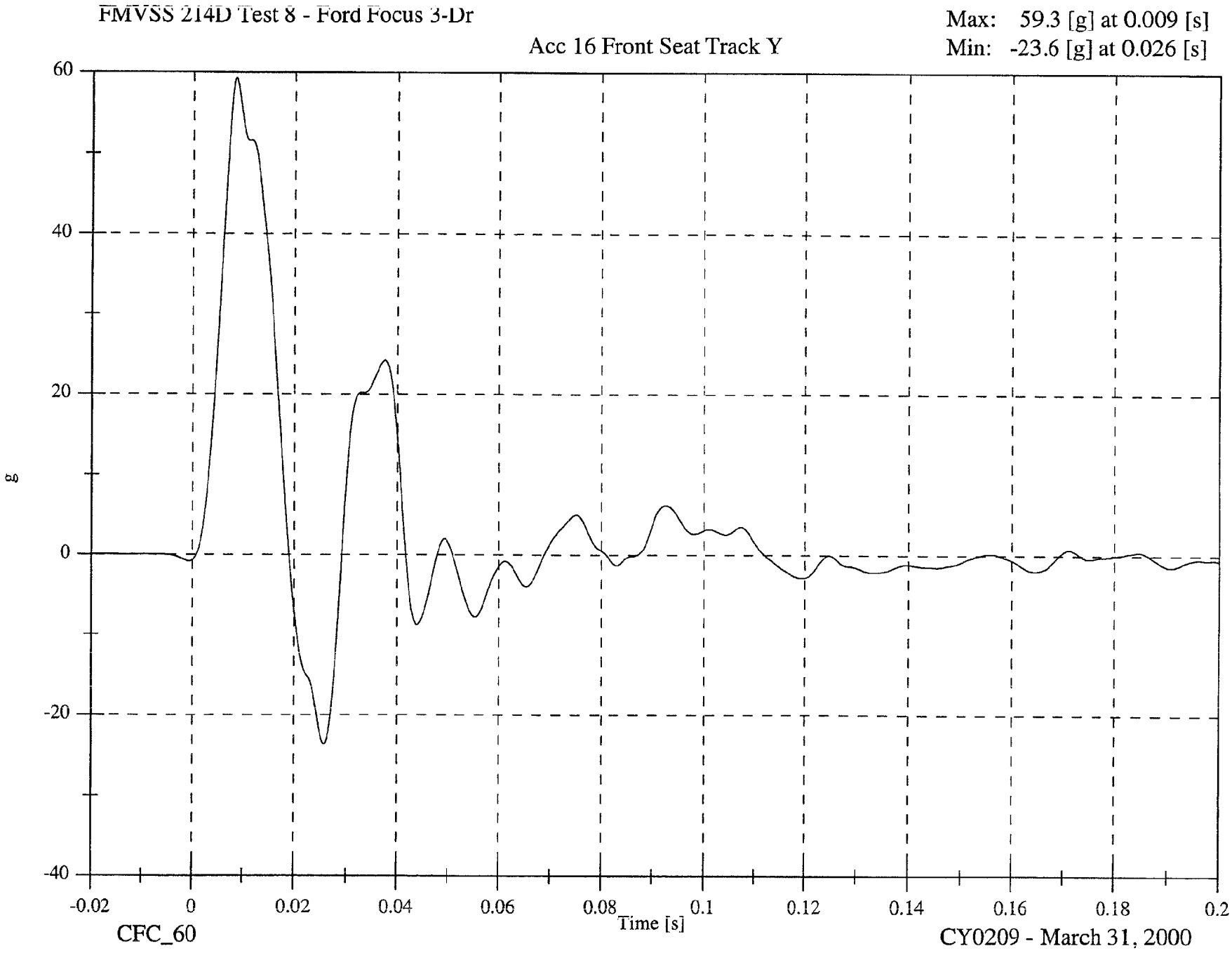


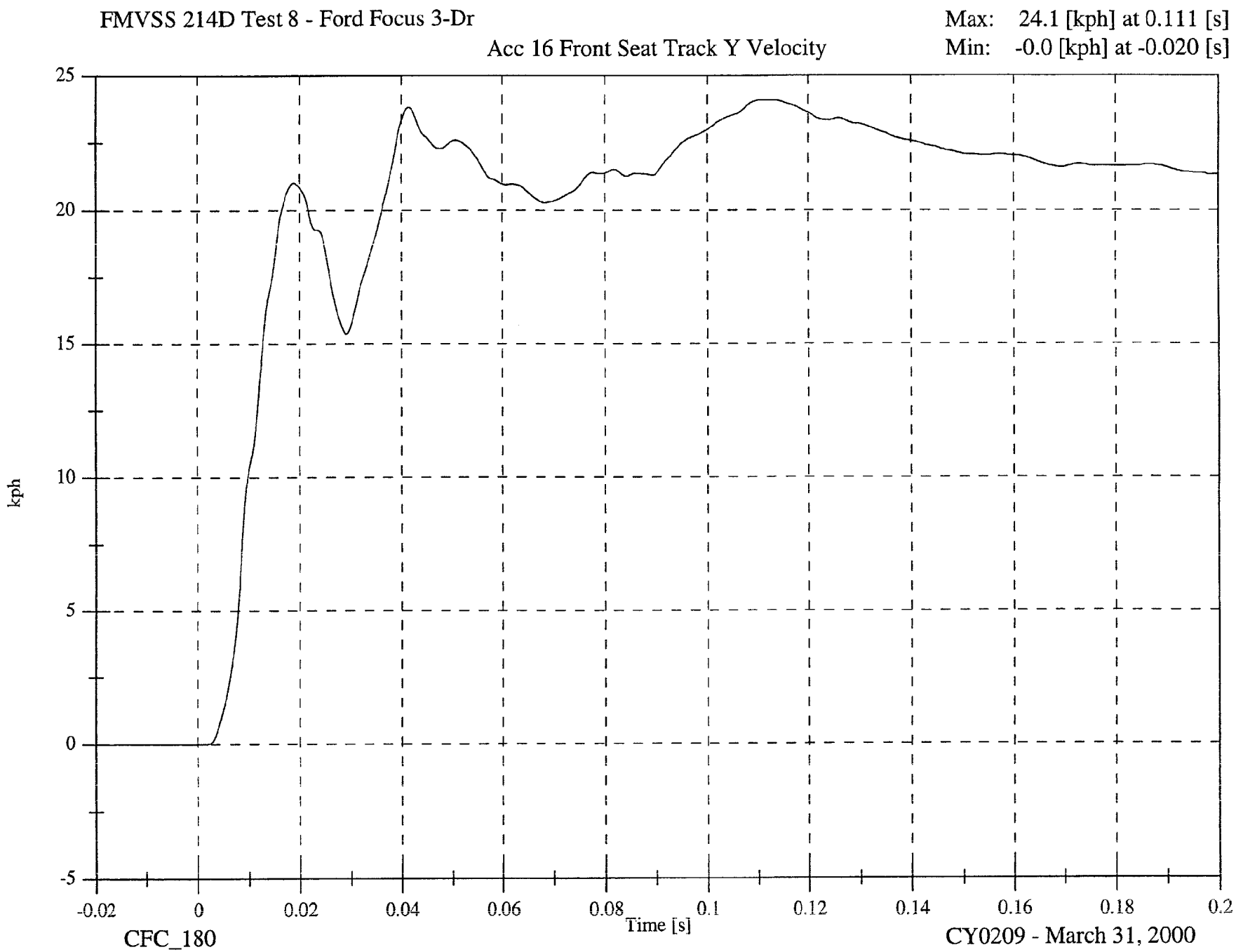
CFC_180

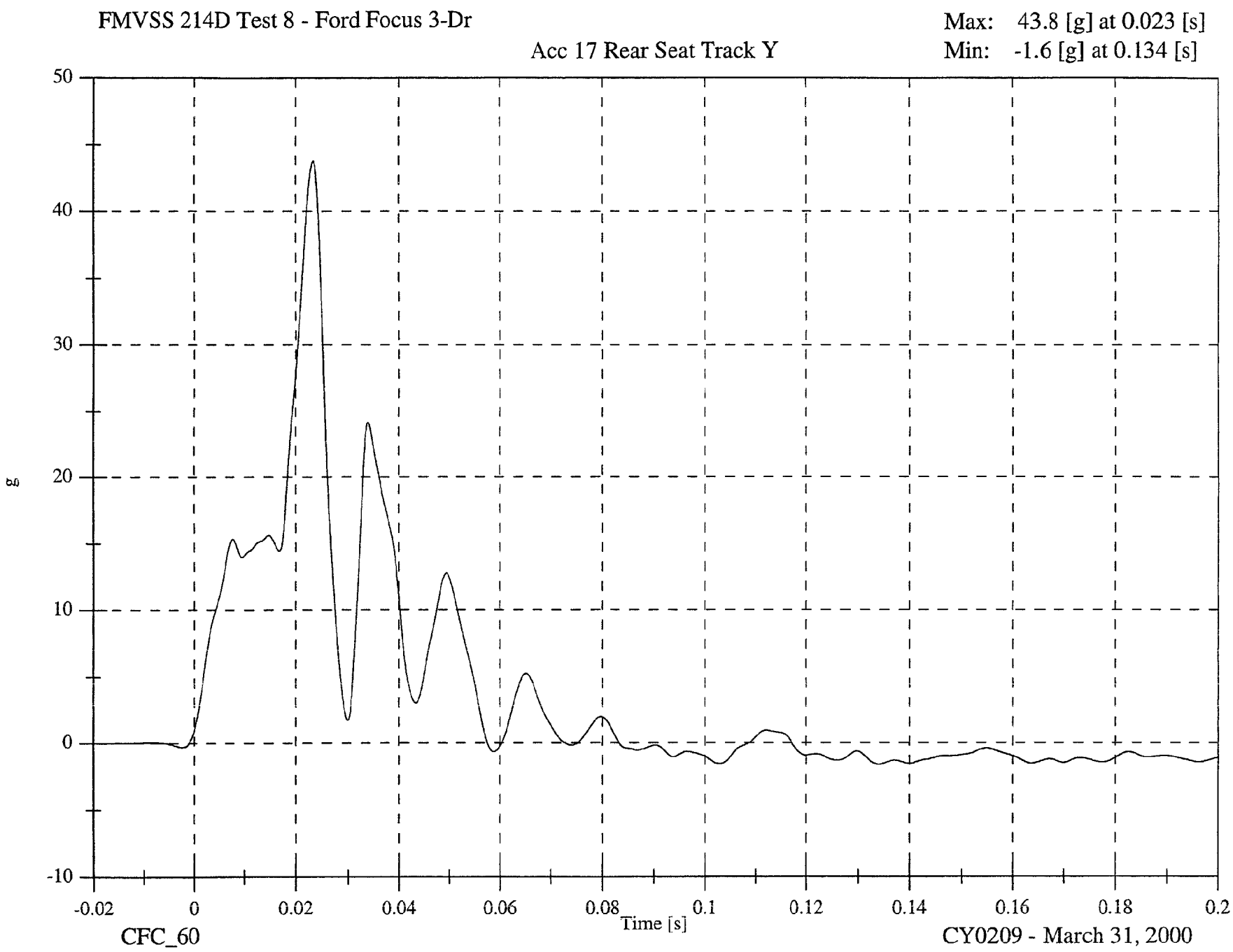
CY0209 - March 31, 2000

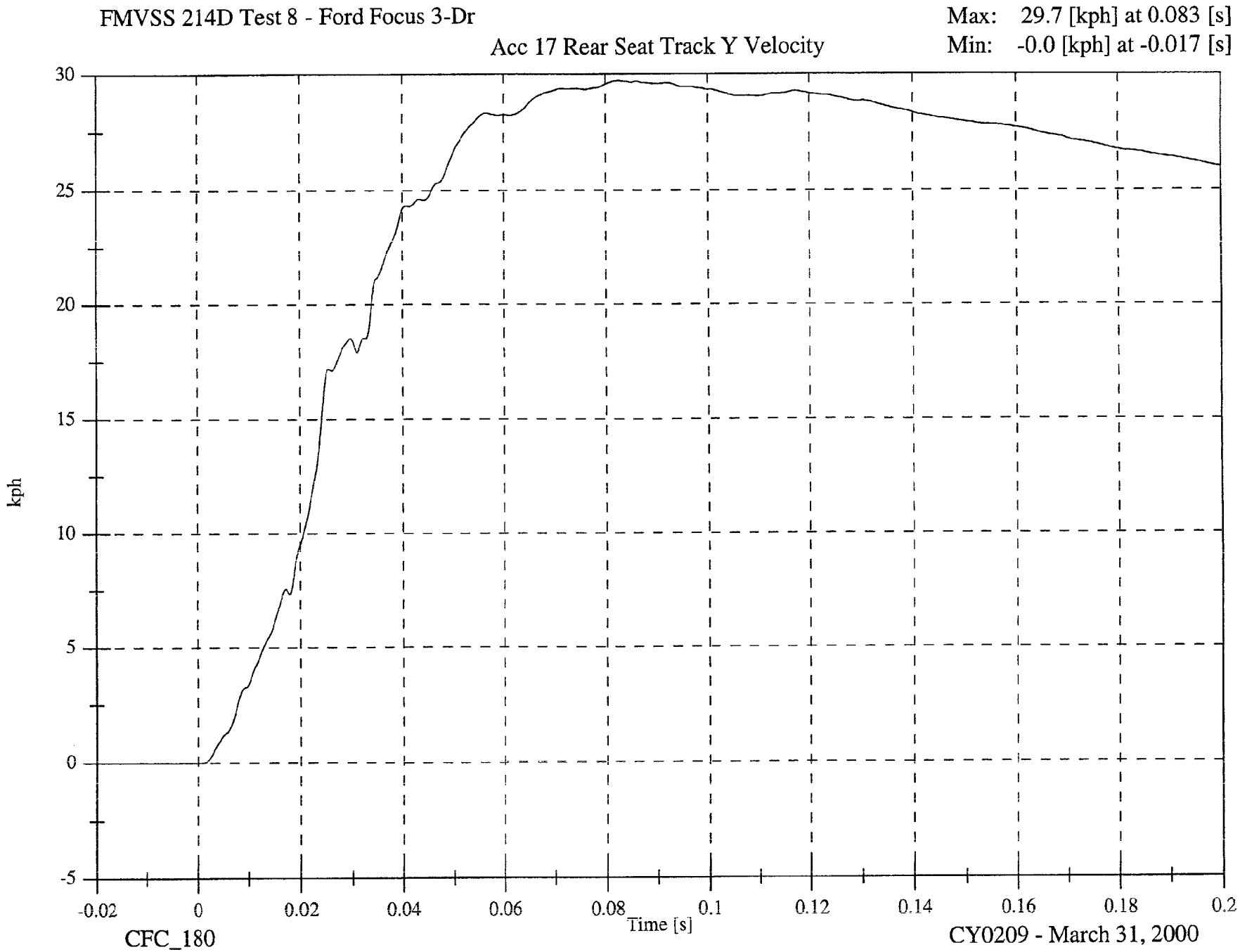

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 15 Left Mid A Post Y
Max: 36.2 [g] at 0.017 [s]
Min: -6.8 [g] at 0.110 [s]
40
30
20
10
0
-10
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

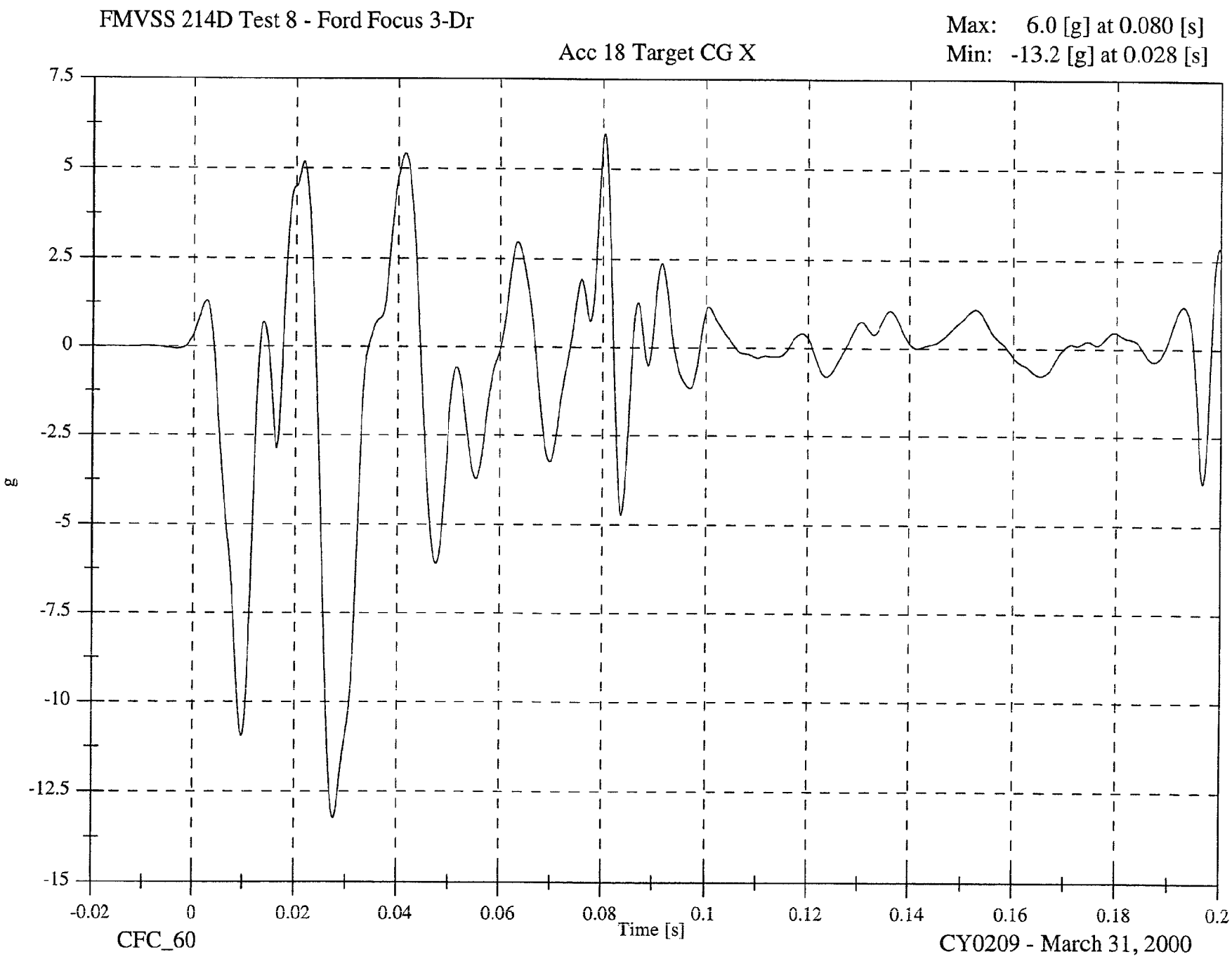

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 15 Left Mid A Post Y Velocity
Max: 28.5 [kph] at 0.099 [s]
Min: -0.9 [kph] at 0.005 [s]
kph
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

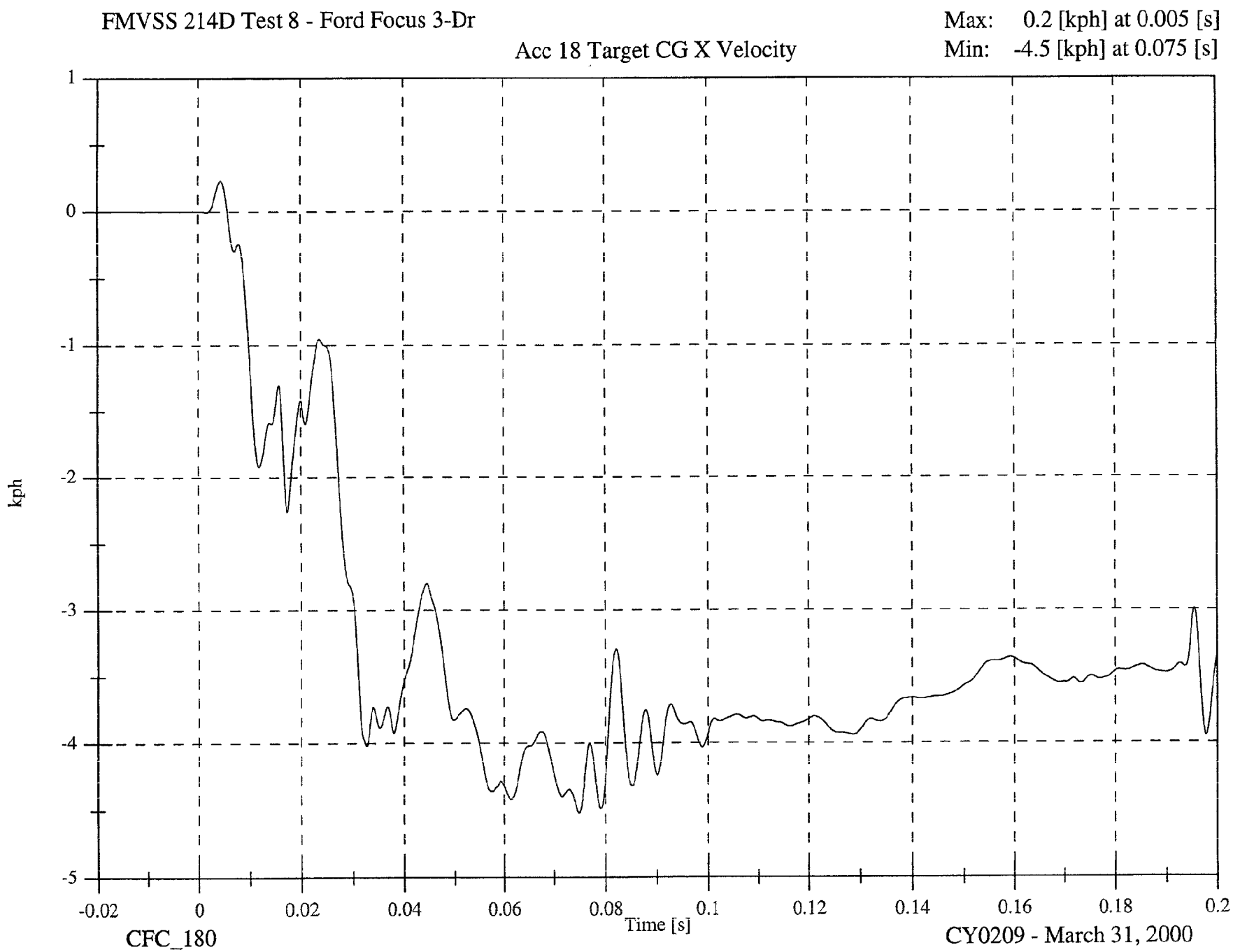

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 16 Front Seat Track Y
Max: 59.3 [g] at 0.009 [s]
Min: -23.6 [g] at 0.026 [s]
60
40
20
0
-20
-40
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

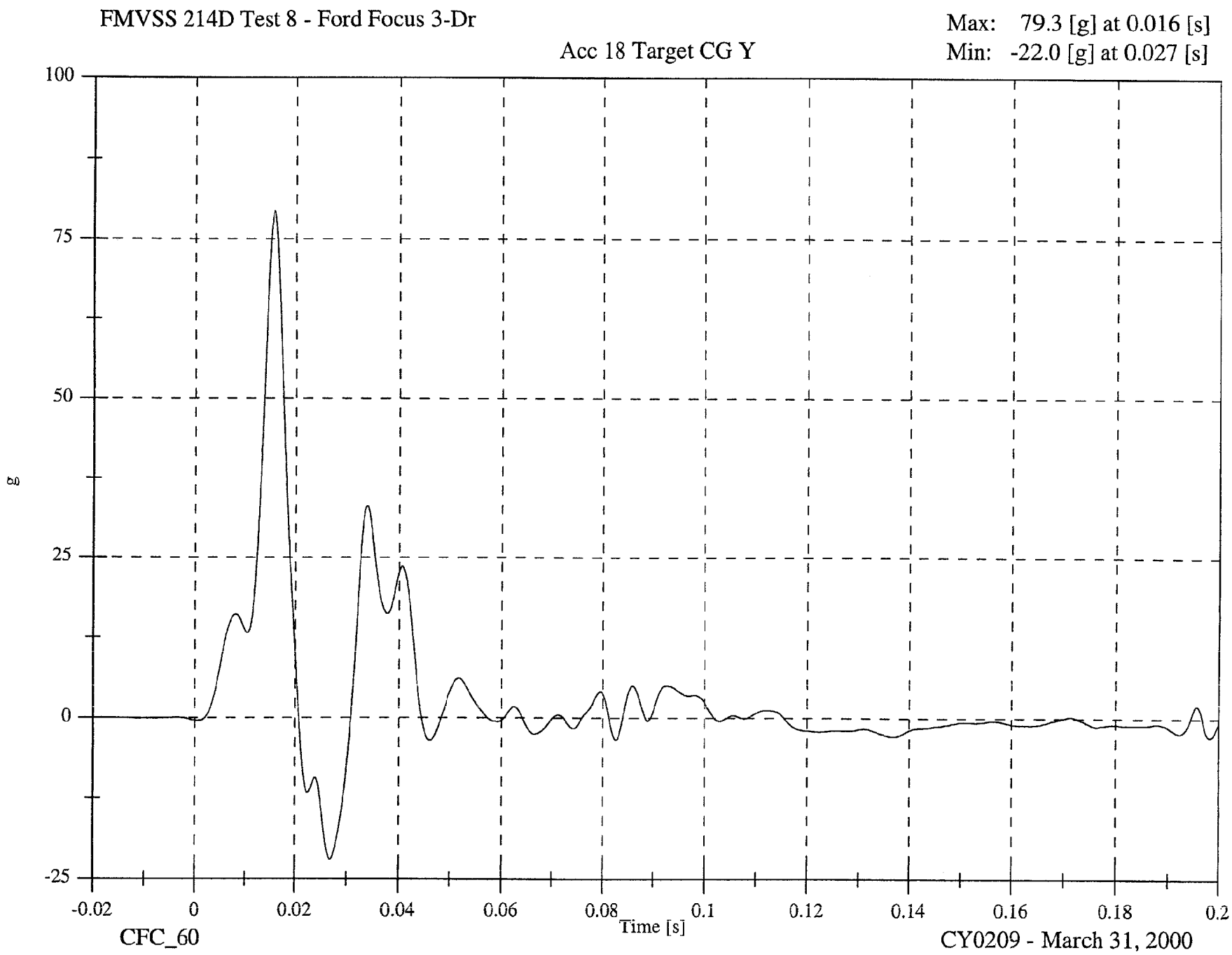

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 16 Front Seat Track Y Velocity
Max: 24.1 [kph] at 0.111 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

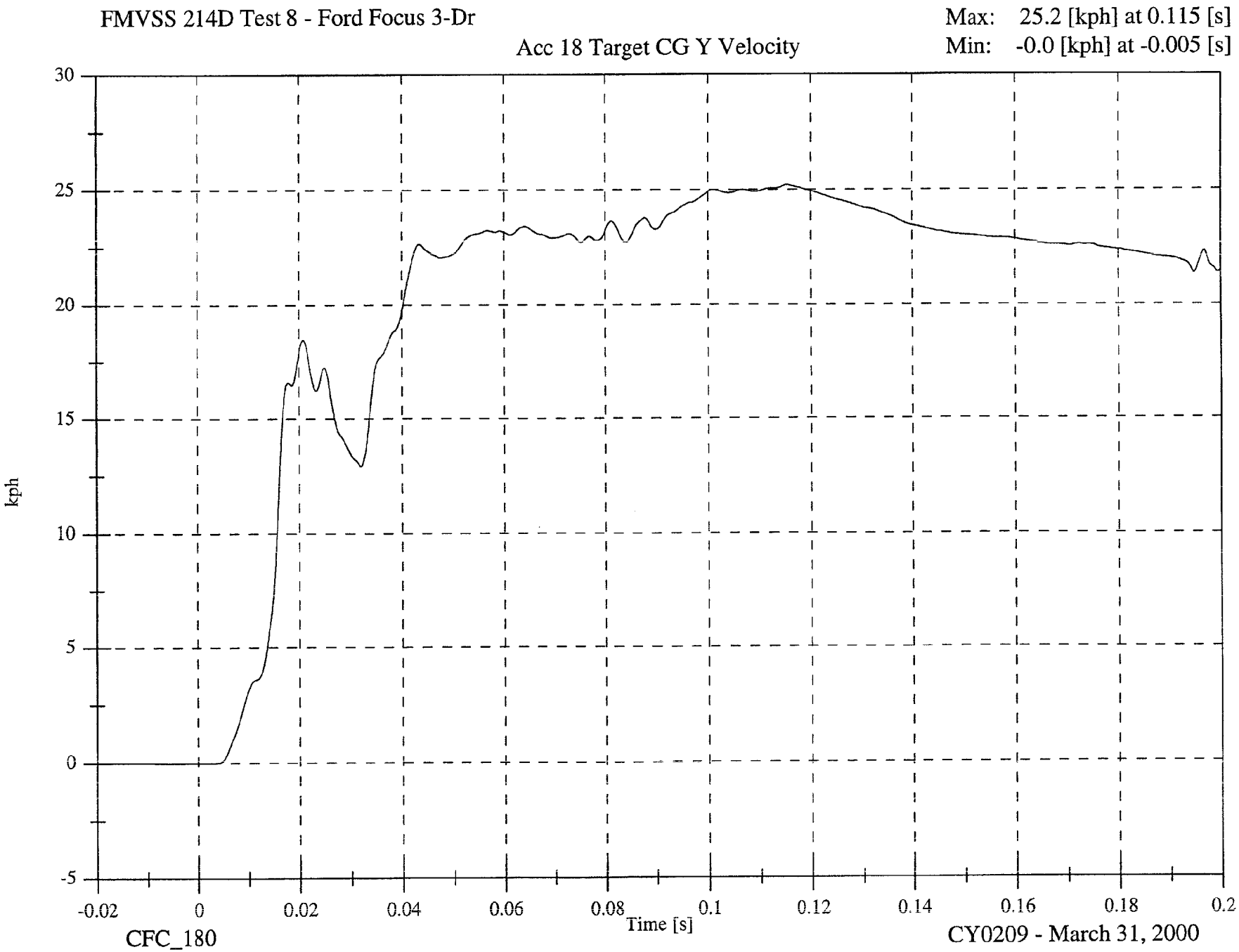

FMVSS 214D Test 8 - Ford Focus 3-Dr
Max: 43.8 [g] at 0.023 [s]
Acc 17 Rear Seat Track Y
Min: -1.6 [g] at 0.134 [s]
50
40
30
20
10
0
-10
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

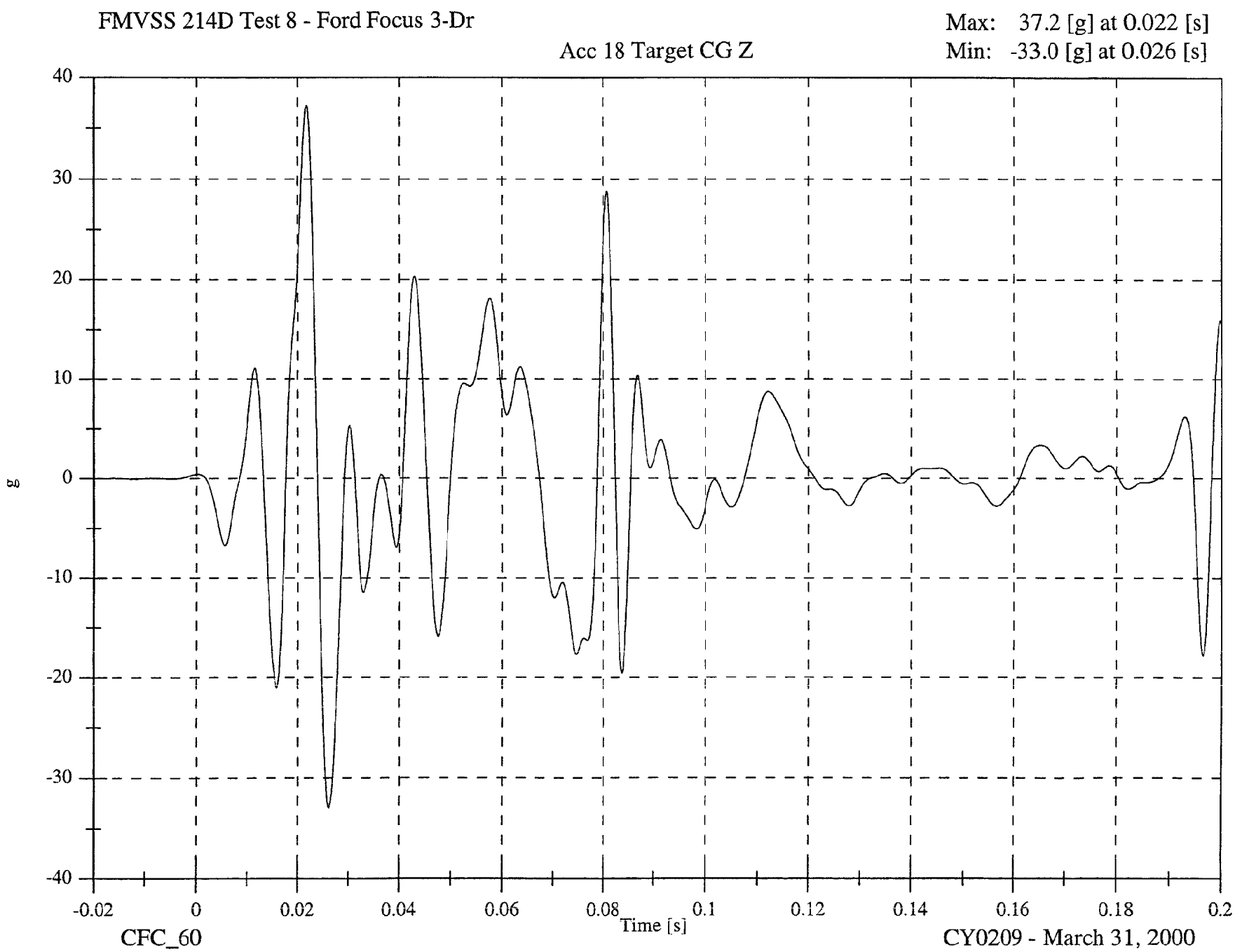

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 17 Rear Seat Track Y Velocity
Max: 29.7 [kph] at 0.083 [s]
Min: -0.0 [kph] at -0.017 [s]
kph
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

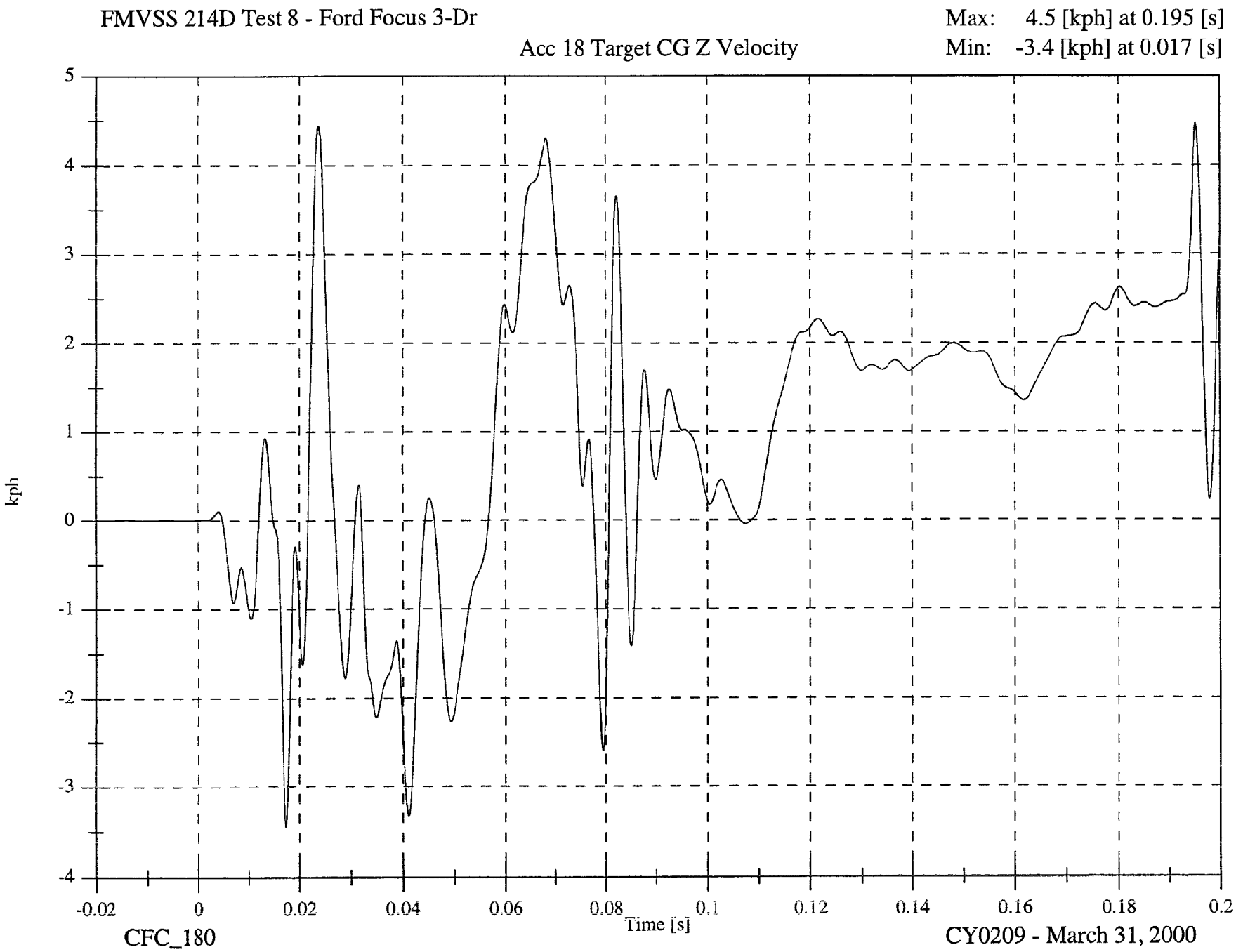

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 18 Target CG X
Max: 6.0 [g] at 0.080 [s]
Min: -13.2 [g] at 0.028 [s]
7.5
5
2.5
0
-2.5
-5
-7.5
-10
-12.5
-15
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

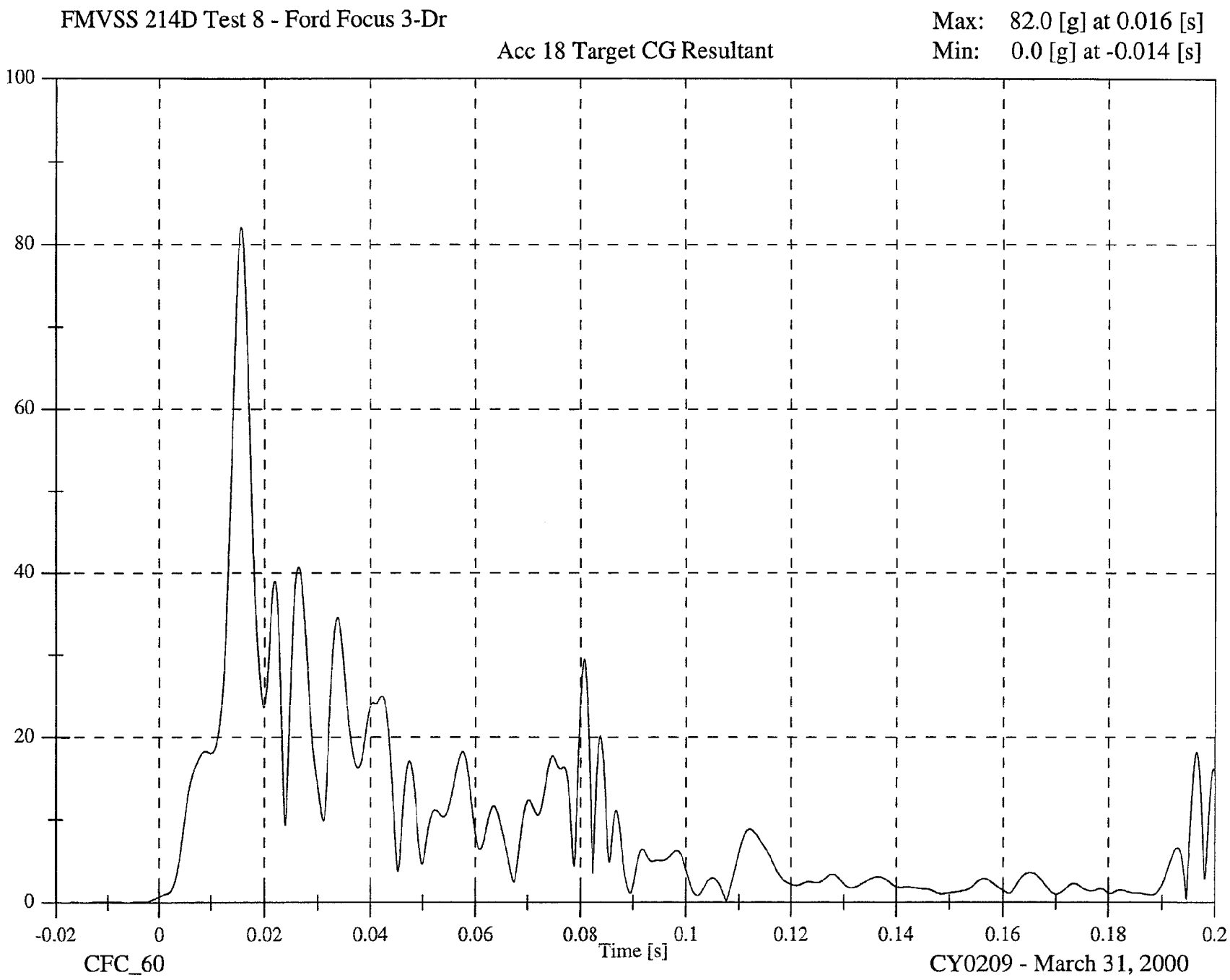

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 18 Target CG X Velocity
Max: 0.2 [kph] at 0.005 [s]
Min: -4.5 [kph] at 0.075 [s]
kph
1
0
-1
-2
-3
-4
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

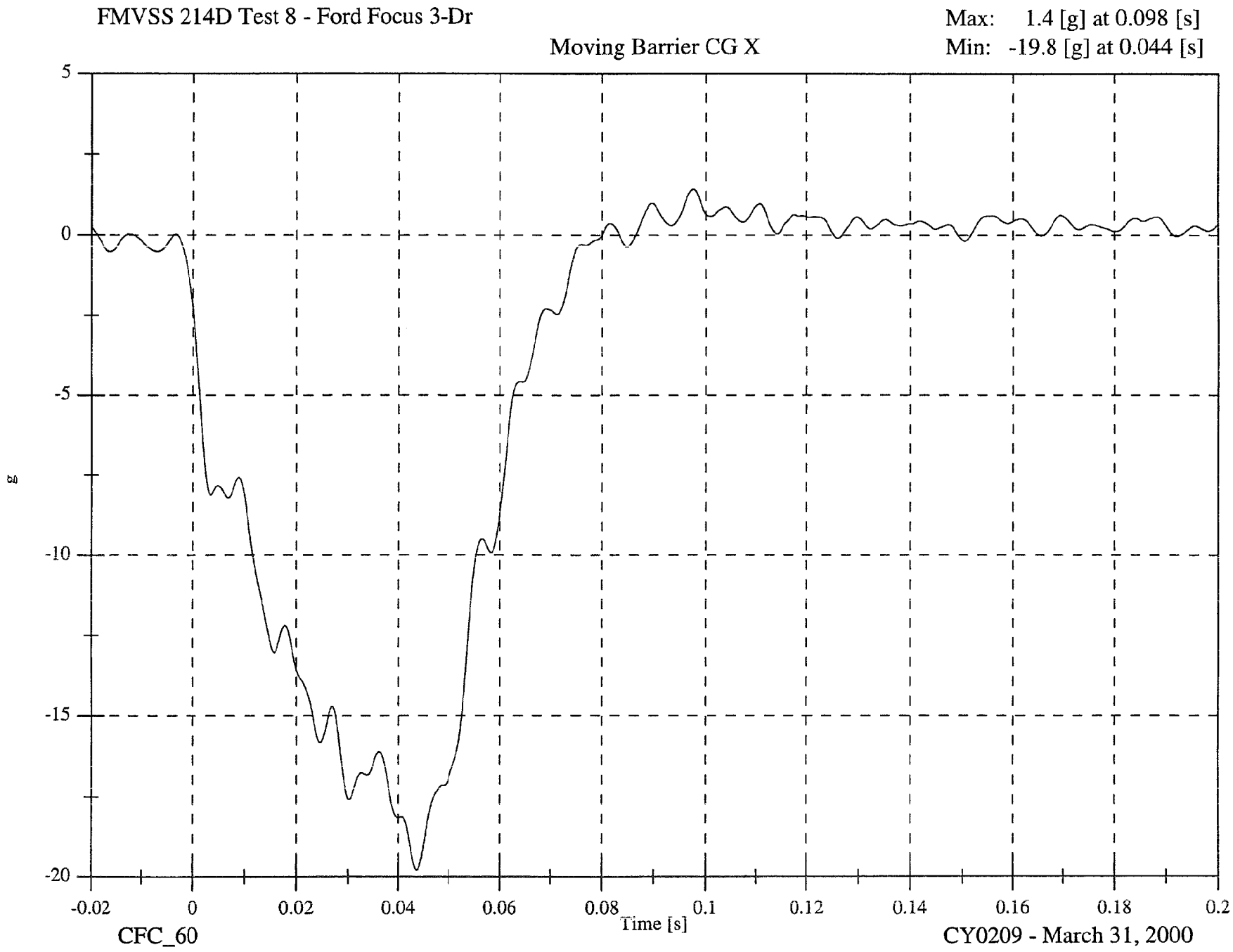

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 18 Target CG Y
Max: 79.3 [g] at 0.016 [s]
Min: -22.0 [g] at 0.027 [s]
100
75
50
25
0
-25
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

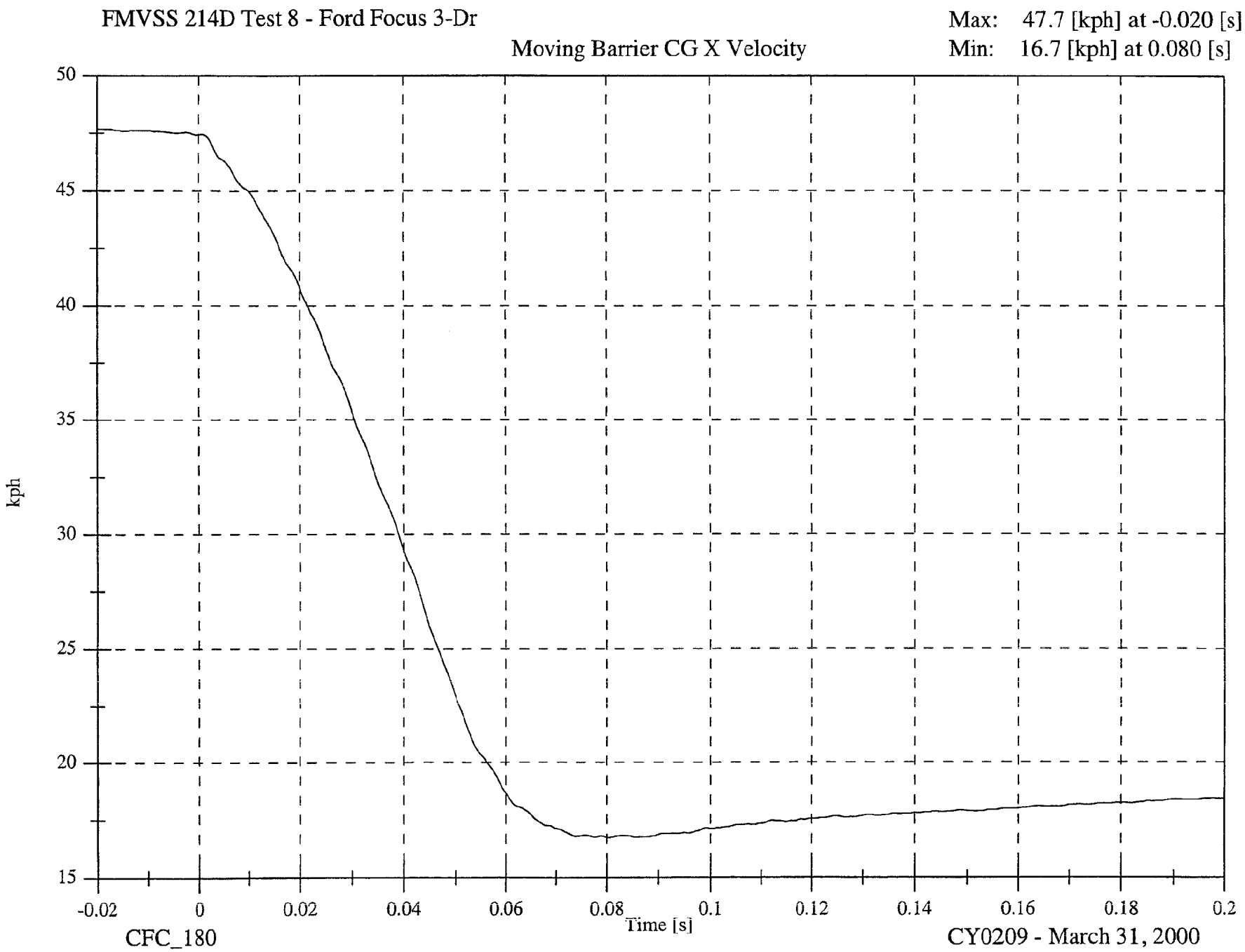

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 18 Target CG Y Velocity
Max: 25.2 [kph] at 0.115 [s]
Min: -0.0 [kph] at -0.005 [s]
kph
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

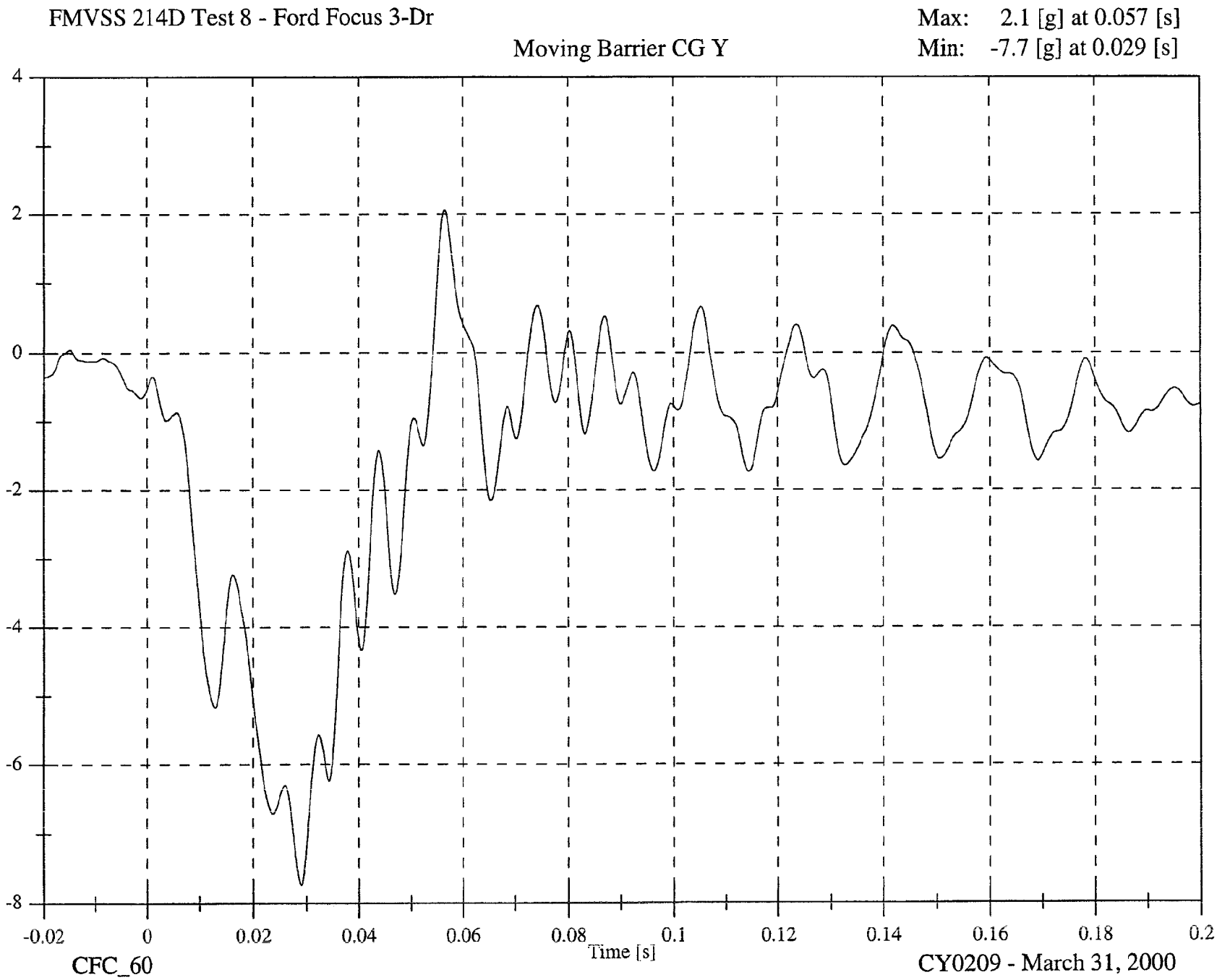

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 18 Target CG Z
Max: 37.2 [g] at 0.022 [s]
Min: -33.0 [g] at 0.026 [s]
40
30
20
10
0
-10
-20
-30
-40
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

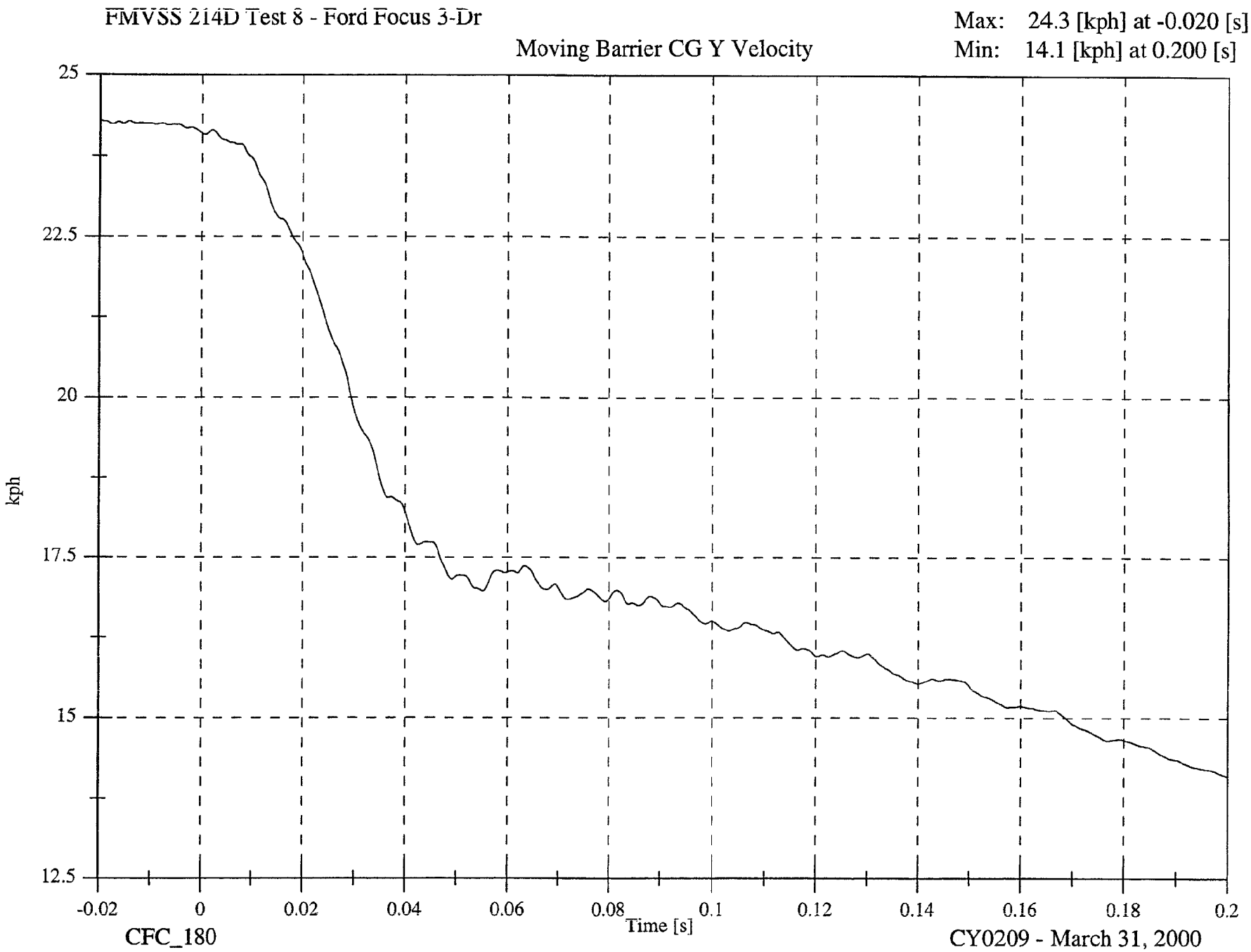

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 18 Target CG Z Velocity
Max: 4.5 [kph] at 0.195 [s]
Min: -3.4 [kph] at 0.017 [s]
kph
5
4
3
2
1
0
-1
-2
-3
-4
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

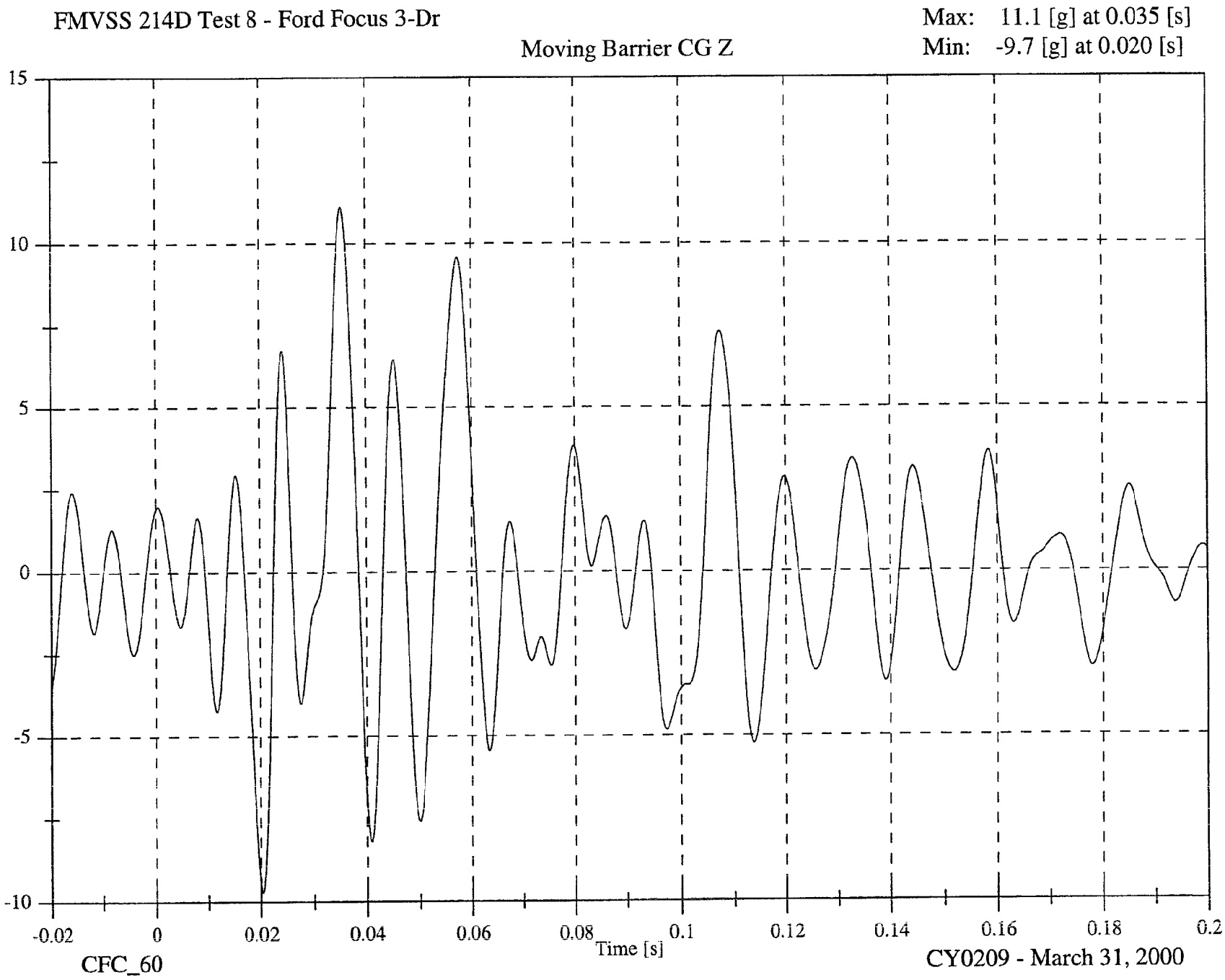

FMVSS 214D Test 8 - Ford Focus 3-Dr
Acc 18 Target CG Resultant
Max: 82.0 [g] at 0.016 [s]
Min: 0.0 [g] at -0.014 [s]
100
80
60
40
20
0
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

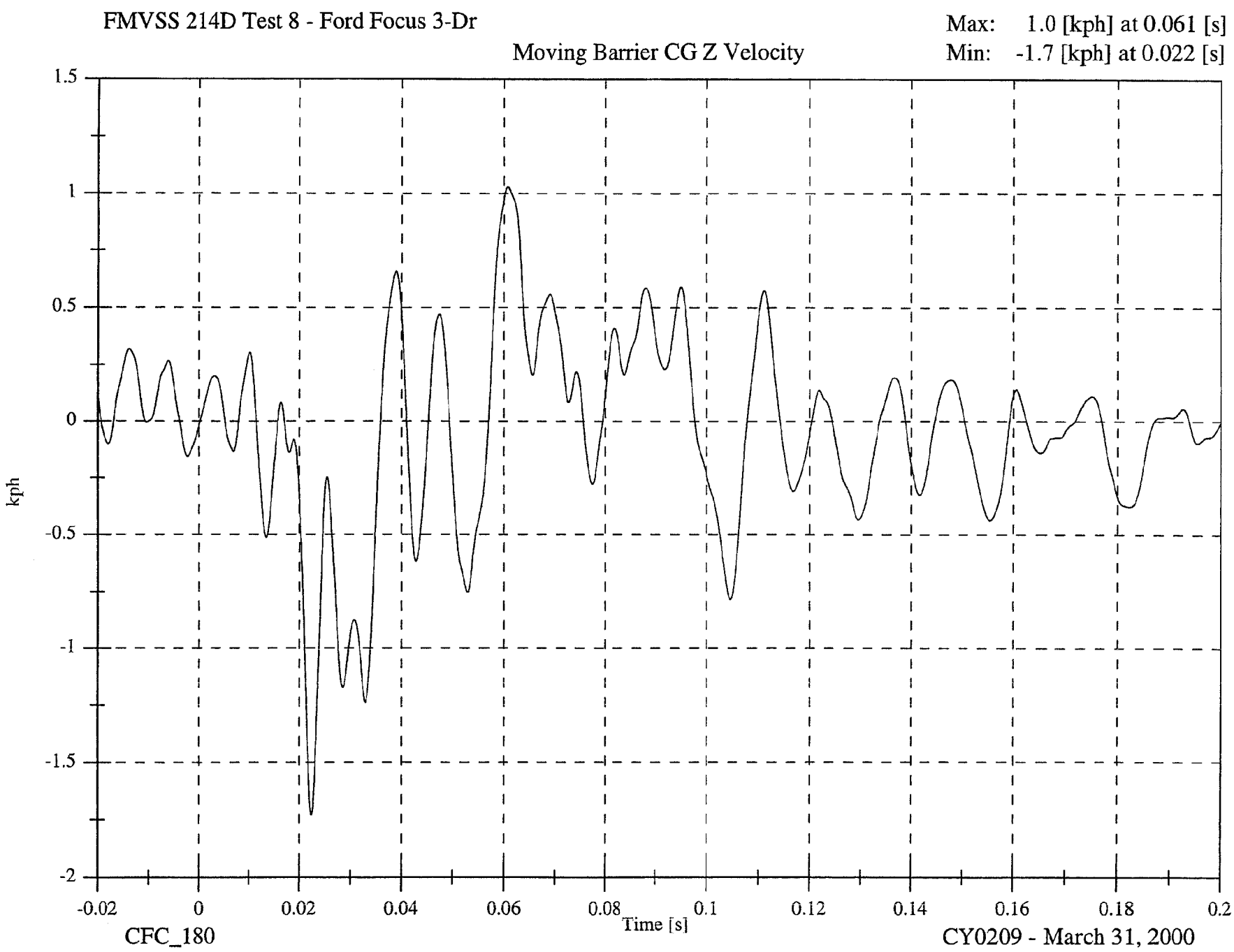

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier CG X
Max: 1.4 [g] at 0.098 [s]
Min: -19.8 [g] at 0.044 [s]
5
0
-5
-10
-15
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

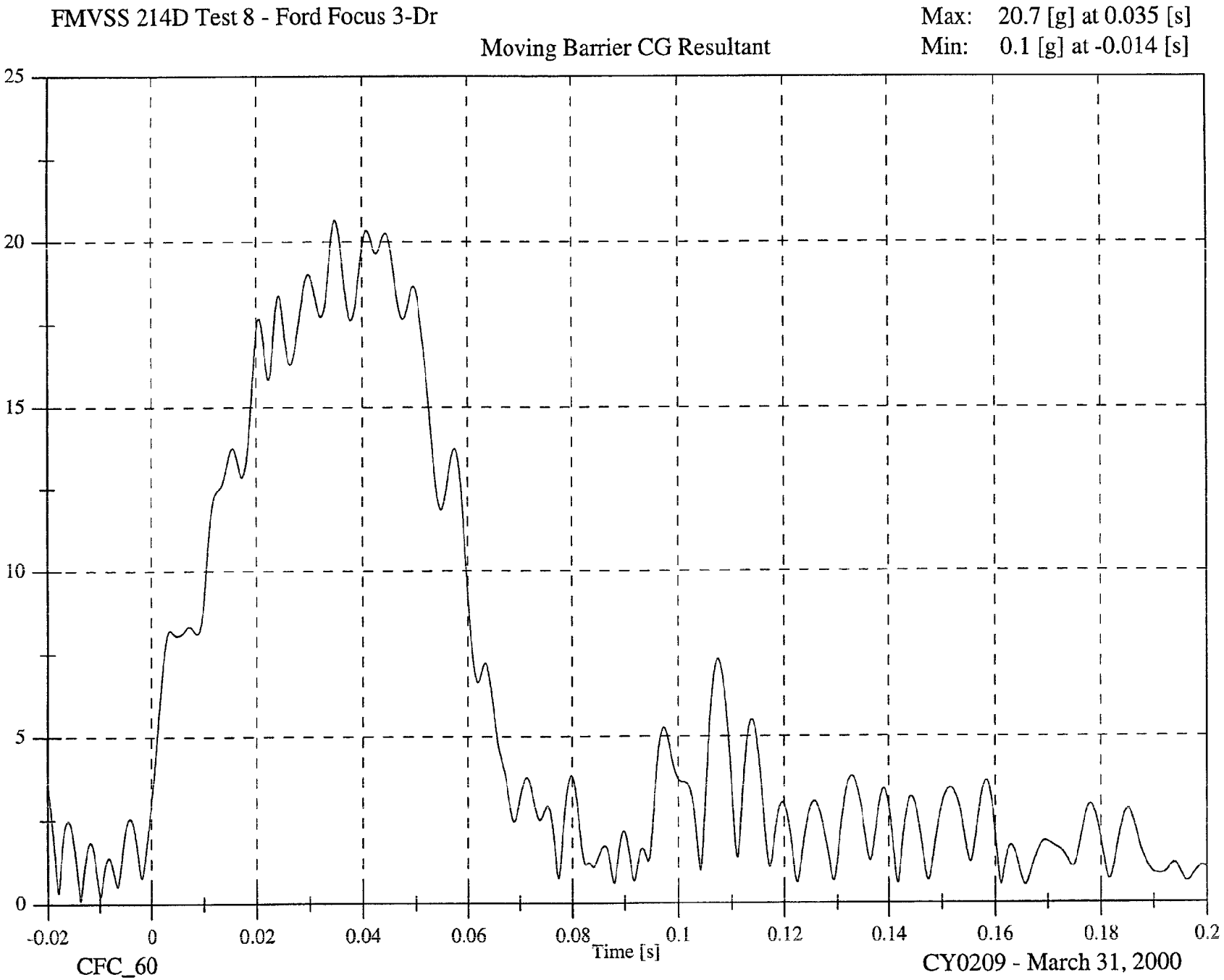

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier CG X Velocity
Max: 47.7 [kph] at -0.020 [s]
Min: 16.7 [kph] at 0.080 [s]
kph
50
45
40
35
30
25
20
15
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

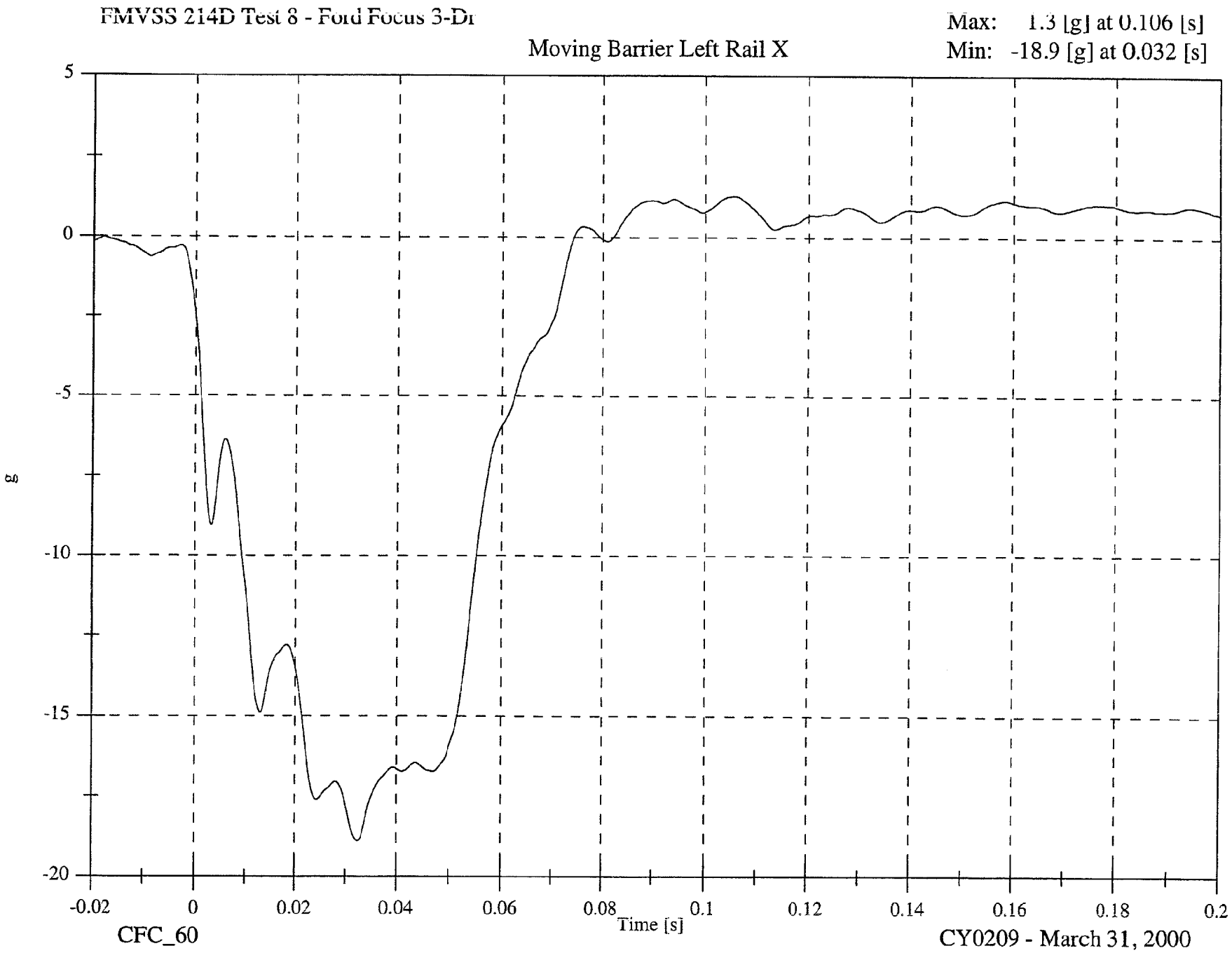

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier CG Y
Max: 2.1 [g] at 0.057 [s]
Min: -7.7 [g] at 0.029 [s]
4
2
0
-2
-4
-6
-8
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

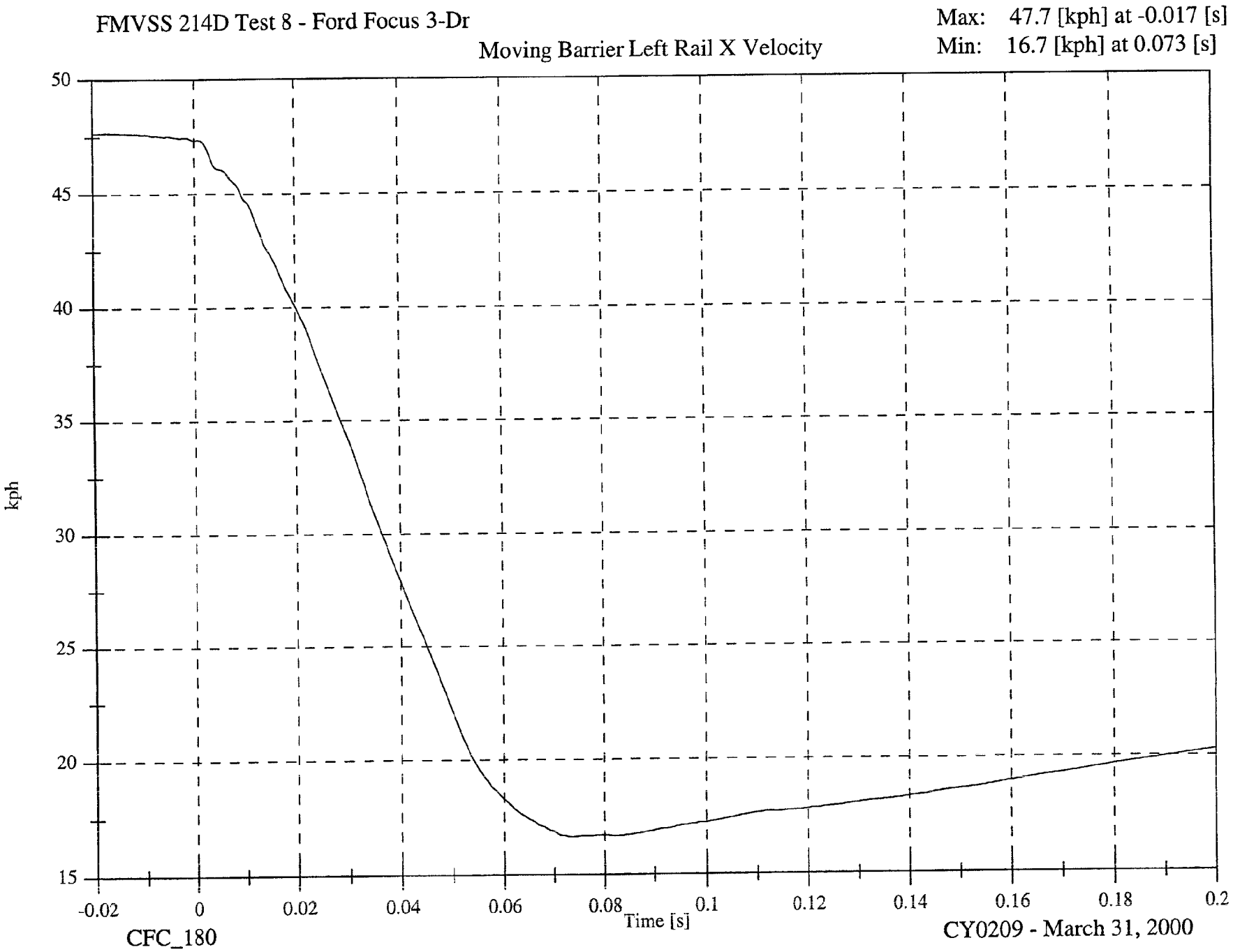

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier CG Y Velocity
Max: 24.3 [kph] at -0.020 [s]
Min: 14.1 [kph] at 0.200 [s]
25
22.5
20
17.5
15
12.5
kph
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

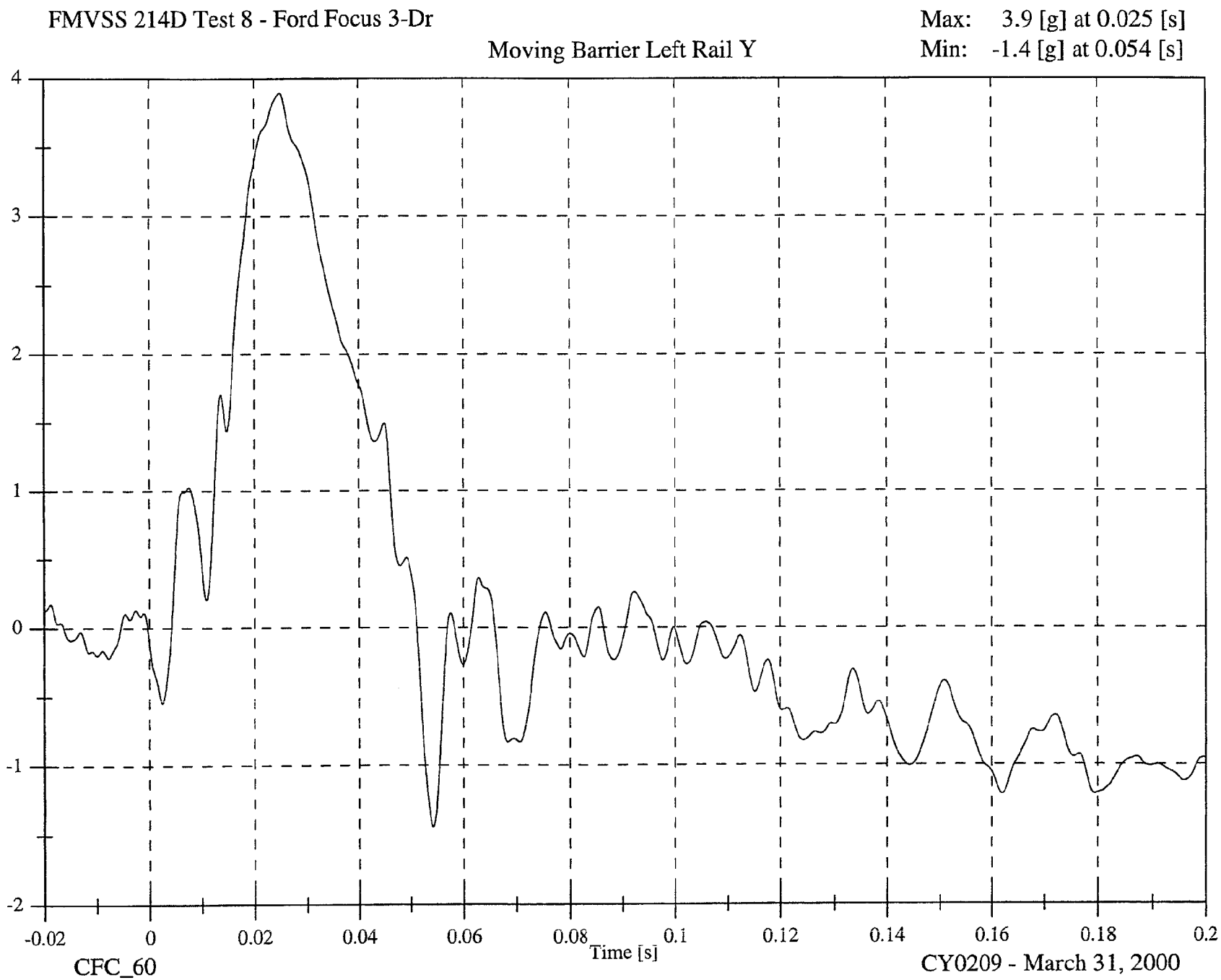

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier CG Z
Max: 11.1 [g] at 0.035 [s]
Min: -9.7 [g] at 0.020 [s]
15
10
5
0
-5
-10
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

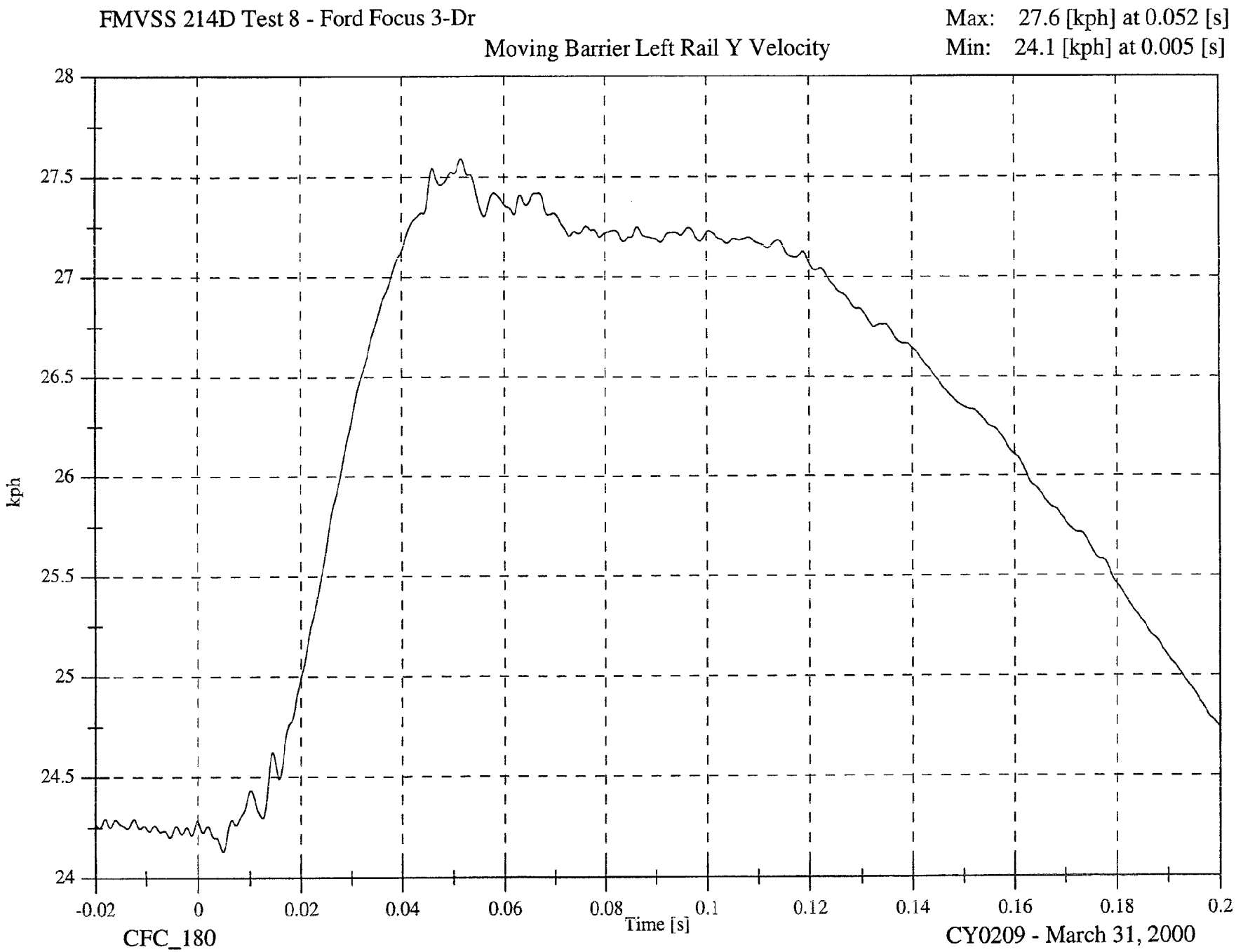

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier CG Z Velocity
Max: 1.0 [kph] at 0.061 [s]
Min: -1.7 [kph] at 0.022 [s]
kph
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

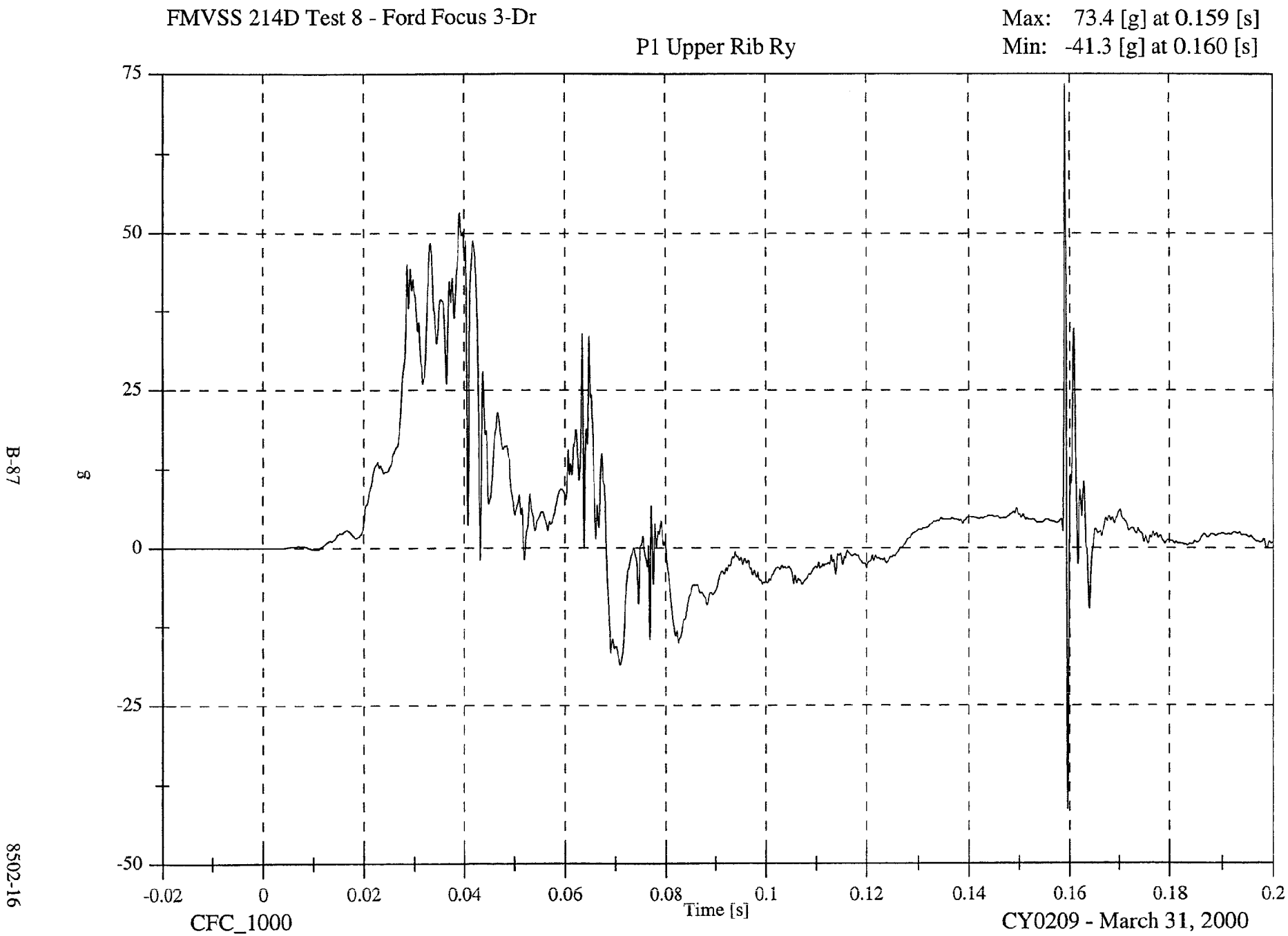

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier CG Resultant
Max: 20.7 [g] at 0.035 [s]
Min: 0.1 [g] at -0.014 [s]
25
20
15
10
5
0
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

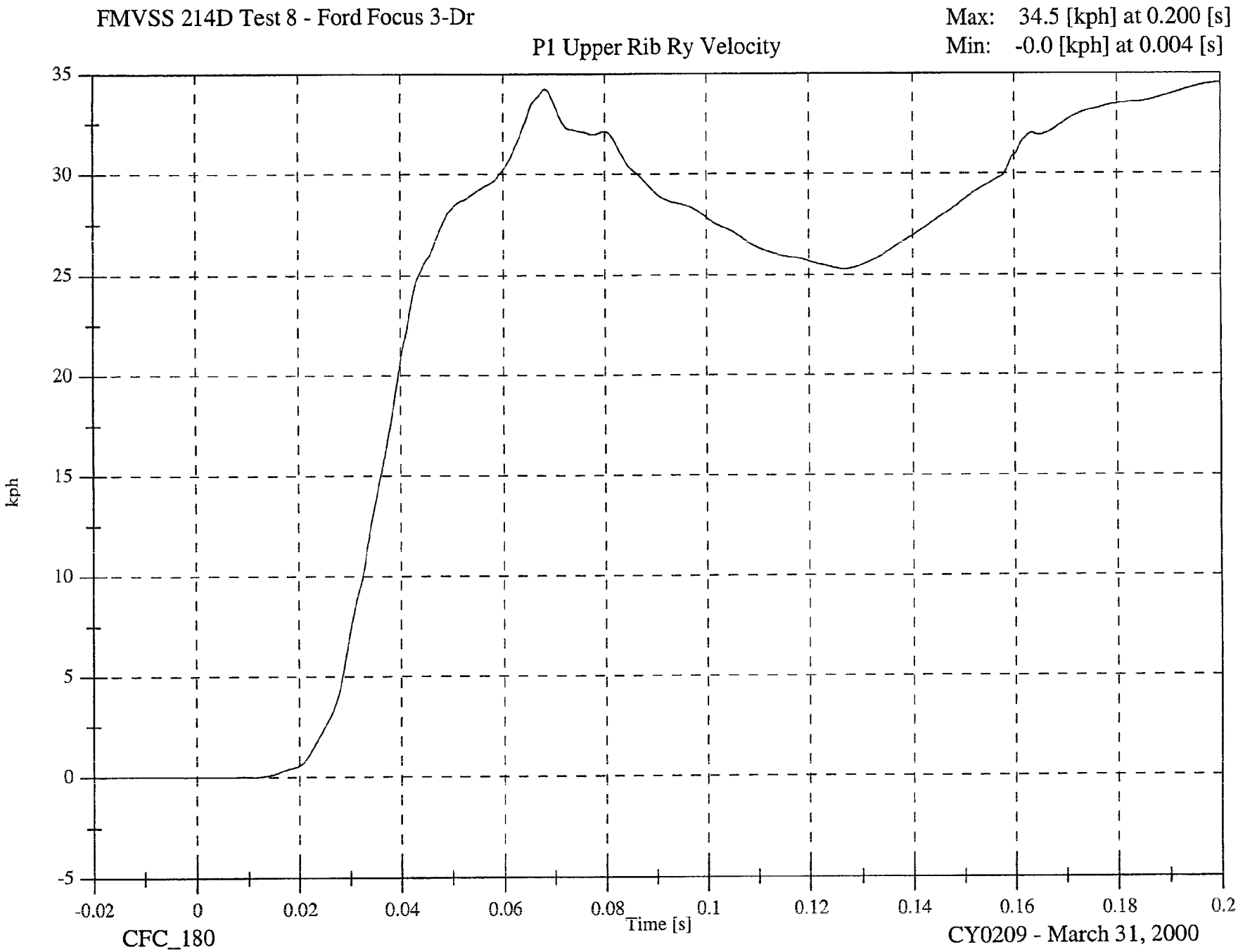

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier Left Rail X
Max: 1.3 [g] at 0.106 [s]
Min: -18.9 [g] at 0.032 [s]
5
0
-5
-10
-15
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

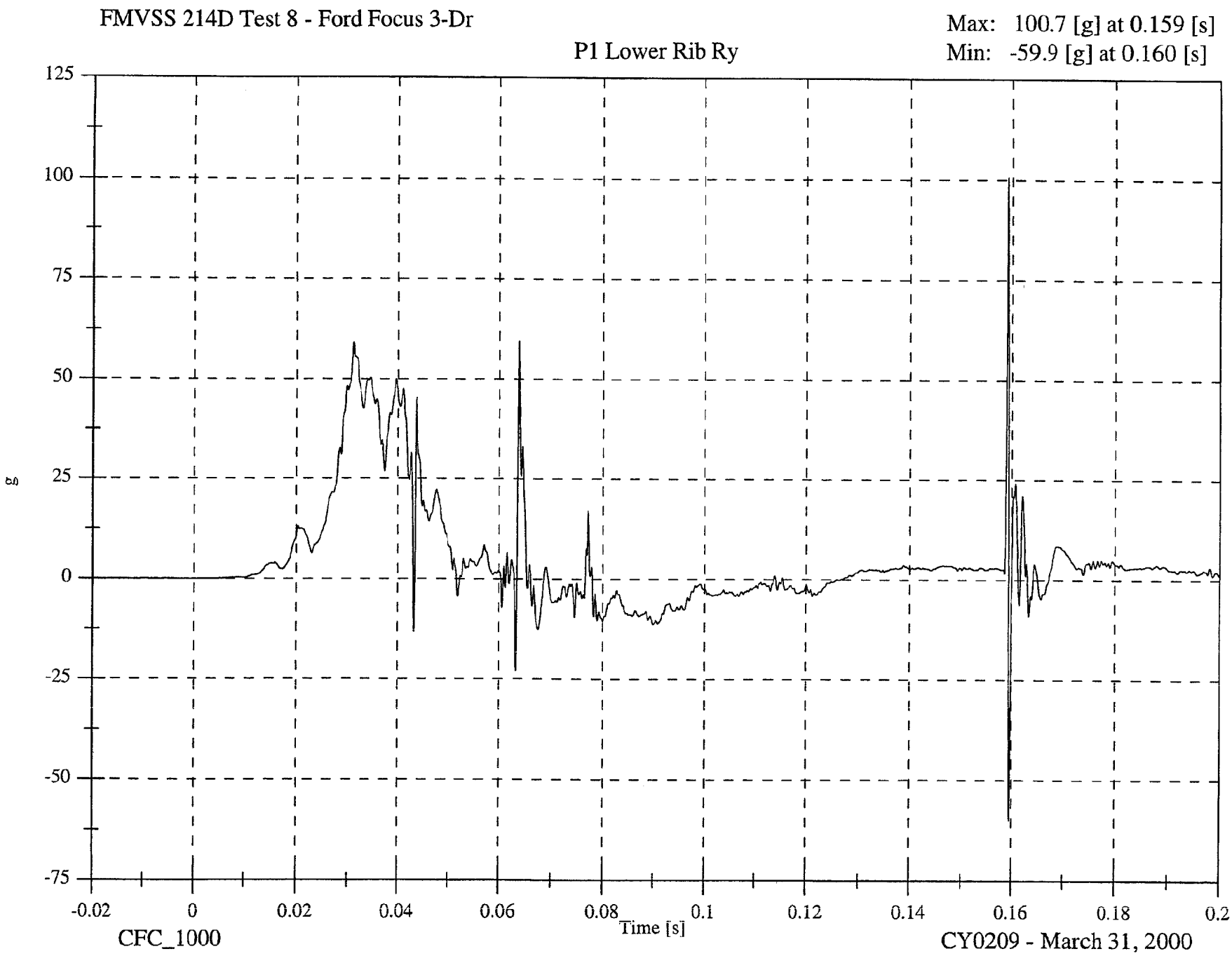

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier Left Rail X Velocity
Max: 47.7 [kph] at -0.017 [s]
Min: 16.7 [kph] at 0.073 [s]
kph
50
45
40
35
30
25
20
15
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

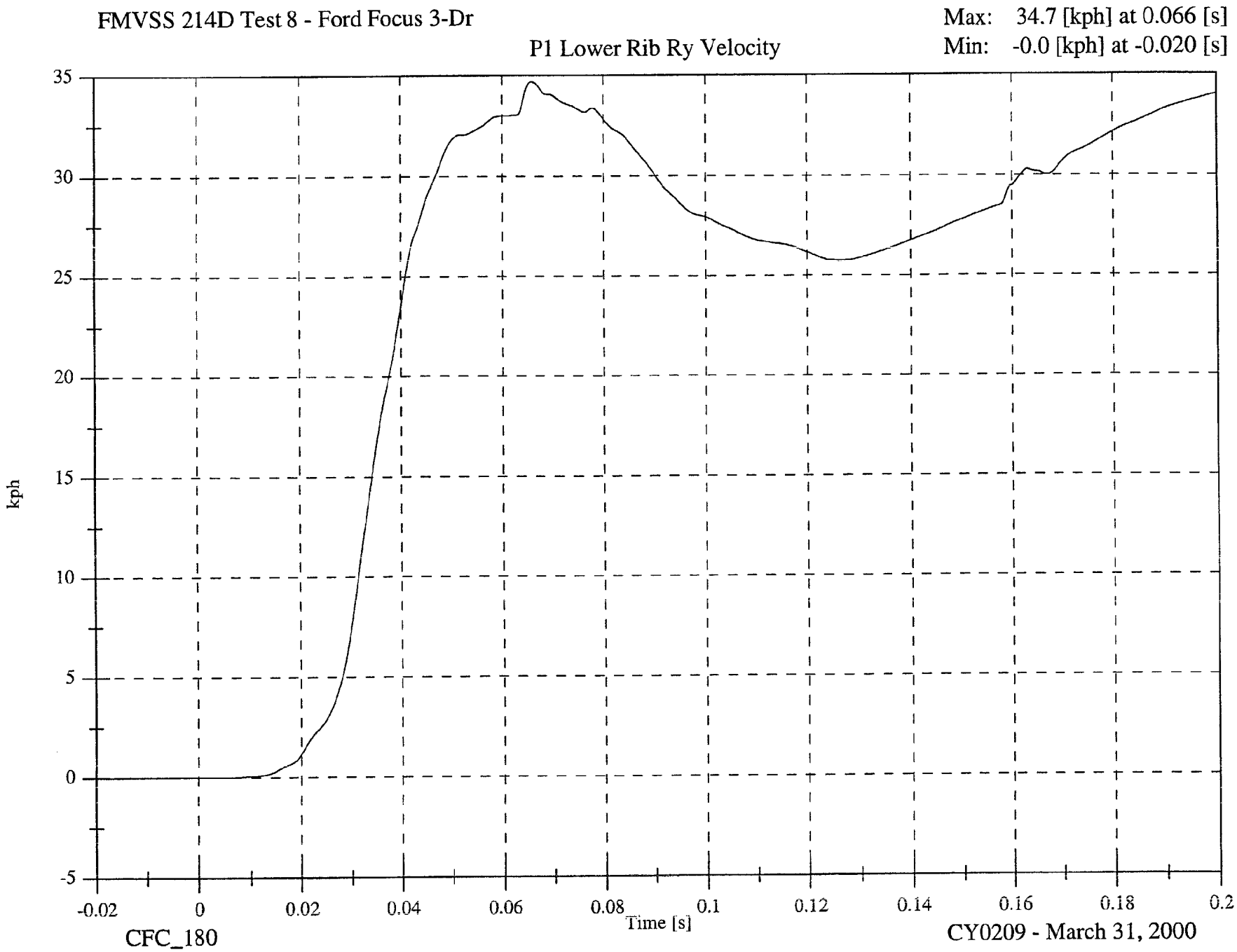

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier Left Rail Y
Max: 3.9 [g] at 0.025 [s]
Min: -1.4 [g] at 0.054 [s]
g
4
3
2
1
0
-1
-2
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_60
CY0209 - March 31, 2000

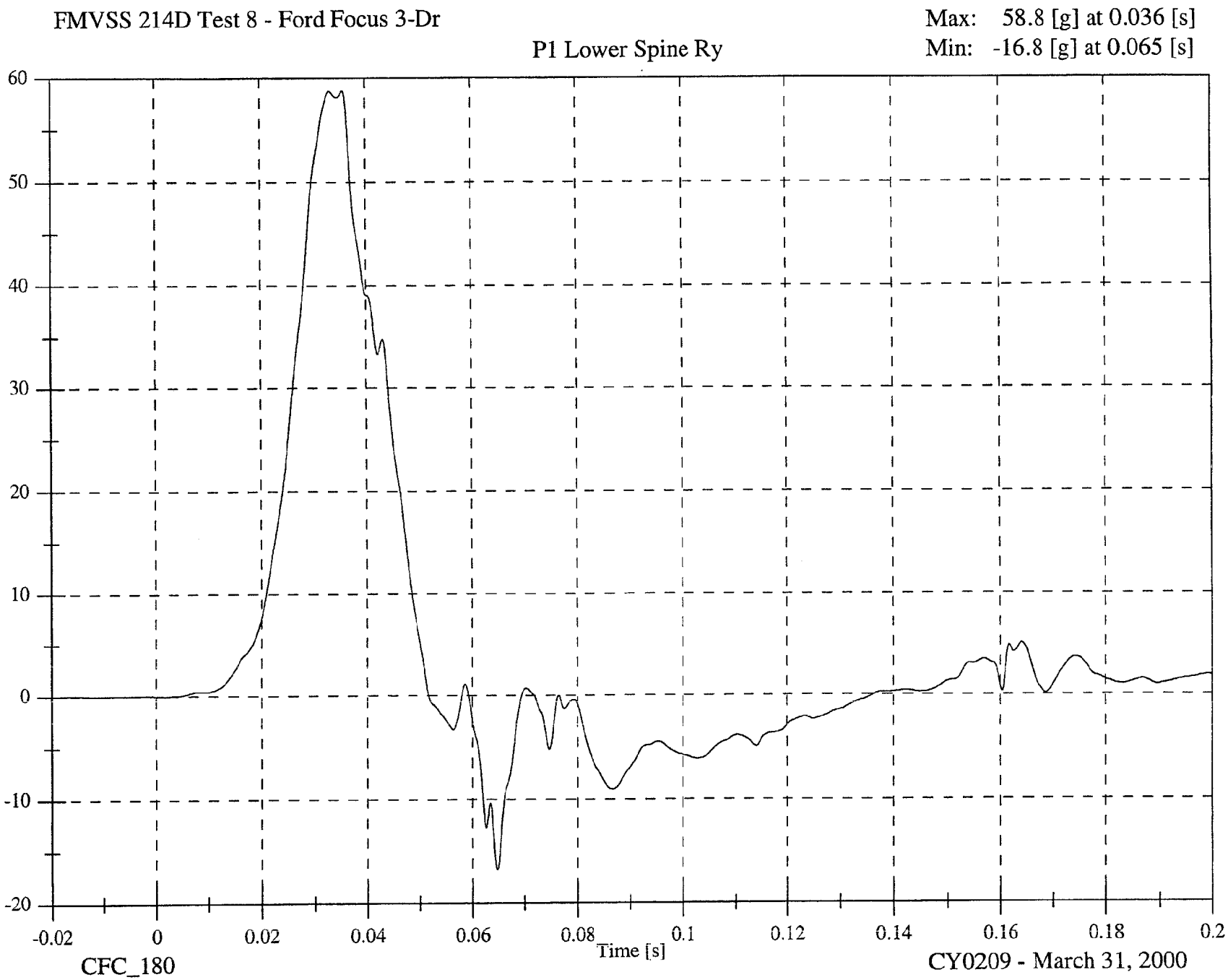

FMVSS 214D Test 8 - Ford Focus 3-Dr
Moving Barrier Left Rail Y Velocity
Max: 27.6 [kph] at 0.052 [s]
Min: 24.1 [kph] at 0.005 [s]
kph
28
27.5
27
26.5
26
25.5
25
24.5
24
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

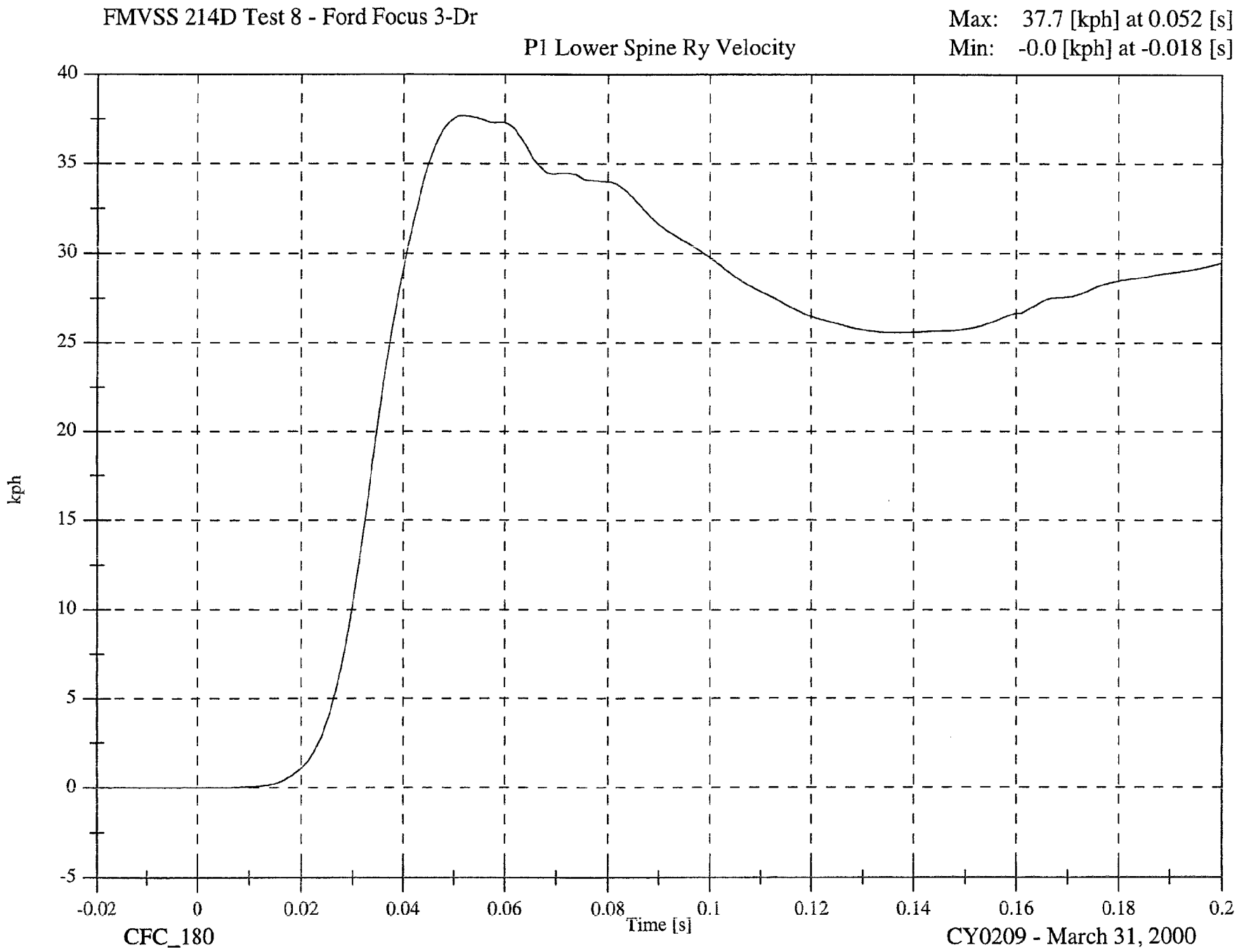

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Upper Rib Ry
Max: 73.4 [g] at 0.159 [s]
Min: -41.3 [g] at 0.160 [s]
75
50
25
0
-25
-50
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

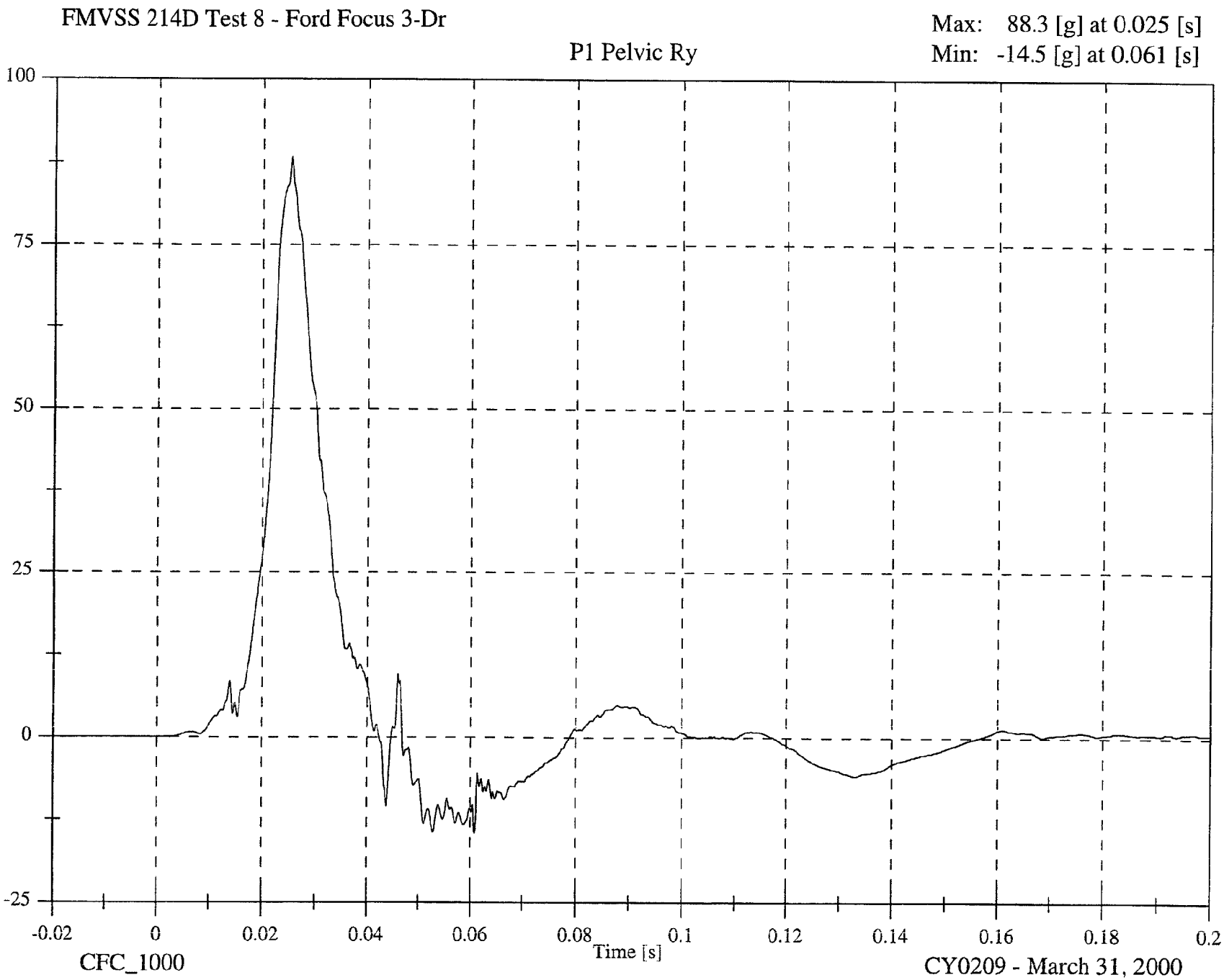

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Upper Rib Ry Velocity
Max: 34.5 [kph] at 0.200 [s]
Min: -0.0 [kph] at 0.004 [s]
kph
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

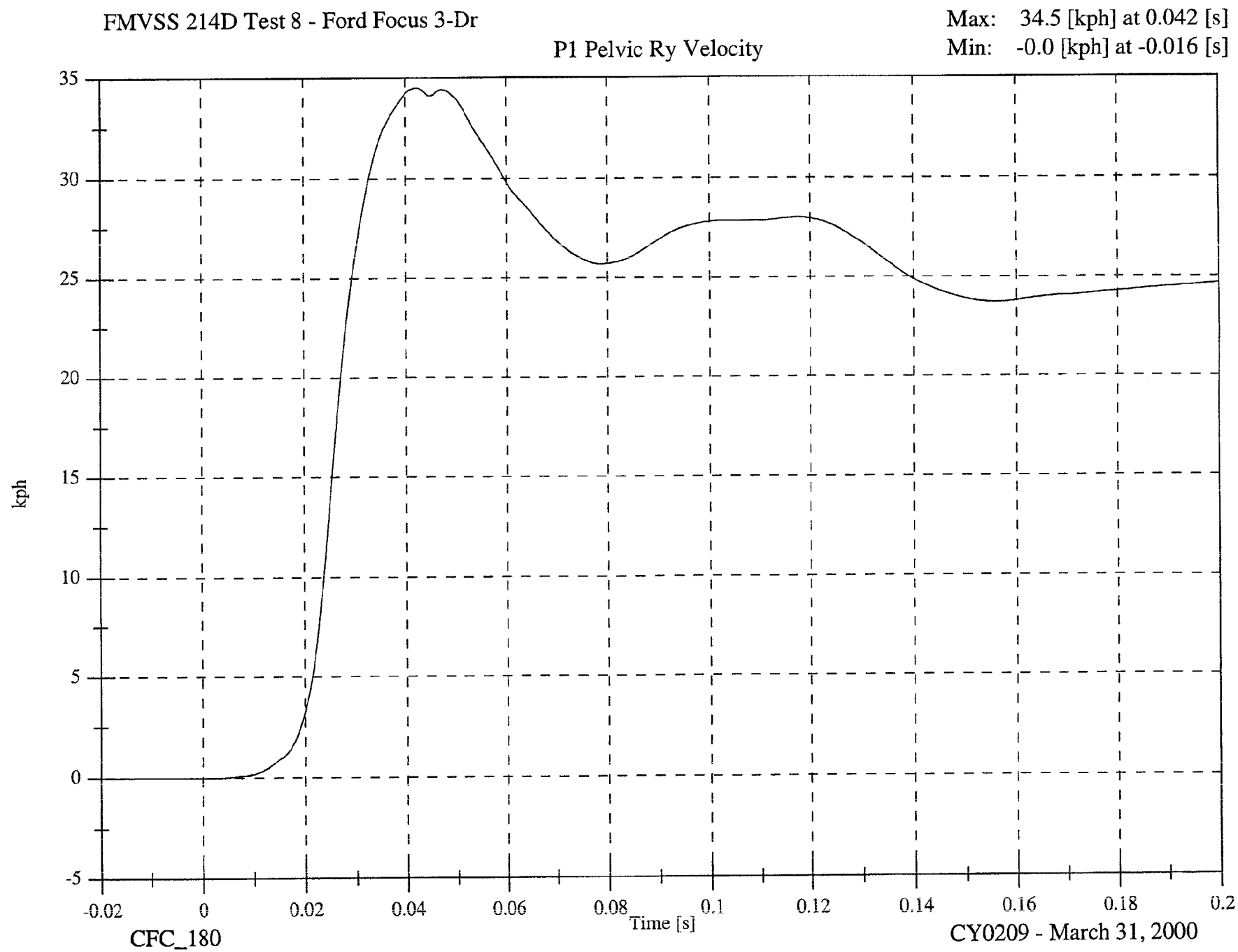

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Rib Ry
Max: 100.7 [g] at 0.159 [s]
Min: -59.9 [g] at 0.160 [s]
125
100
75
50
25
0
-25
-50
-75
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

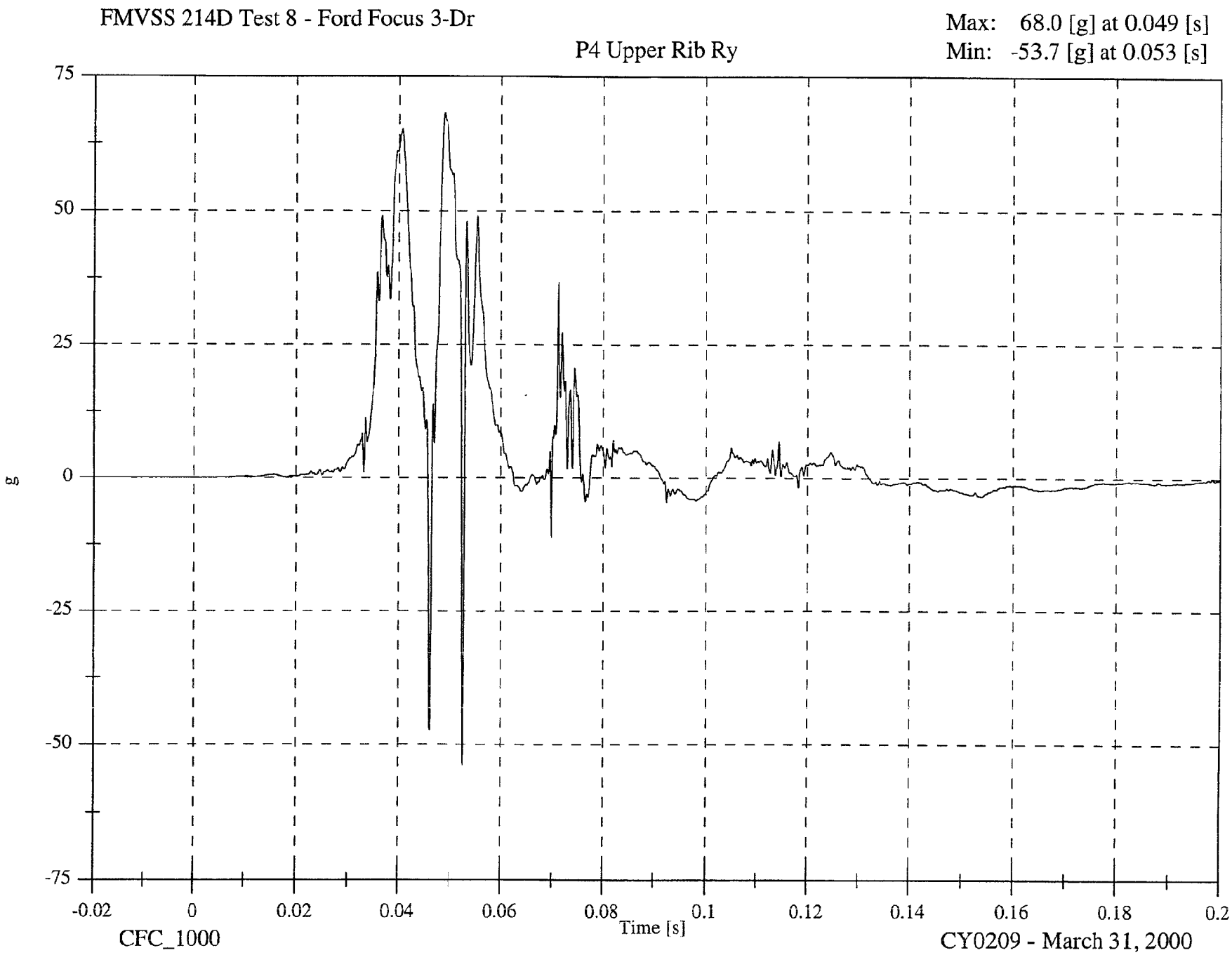

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Rib Ry Velocity
Max: 34.7 [kph] at 0.066 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

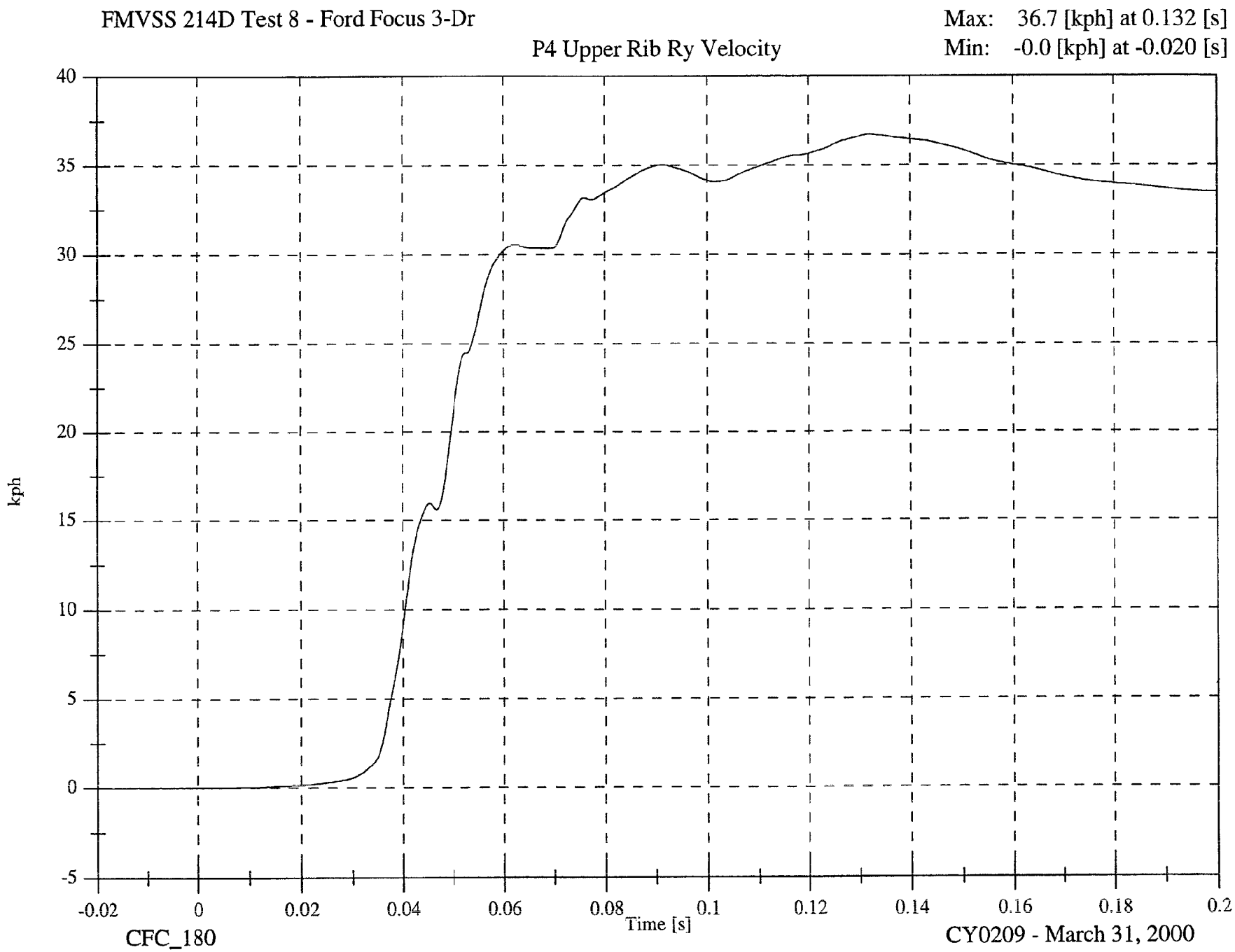

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Spine Ry
Max: 58.8 [g] at 0.036 [s]
Min: -16.8 [g] at 0.065 [s]
60
50
40
30
20
10
0
-10
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

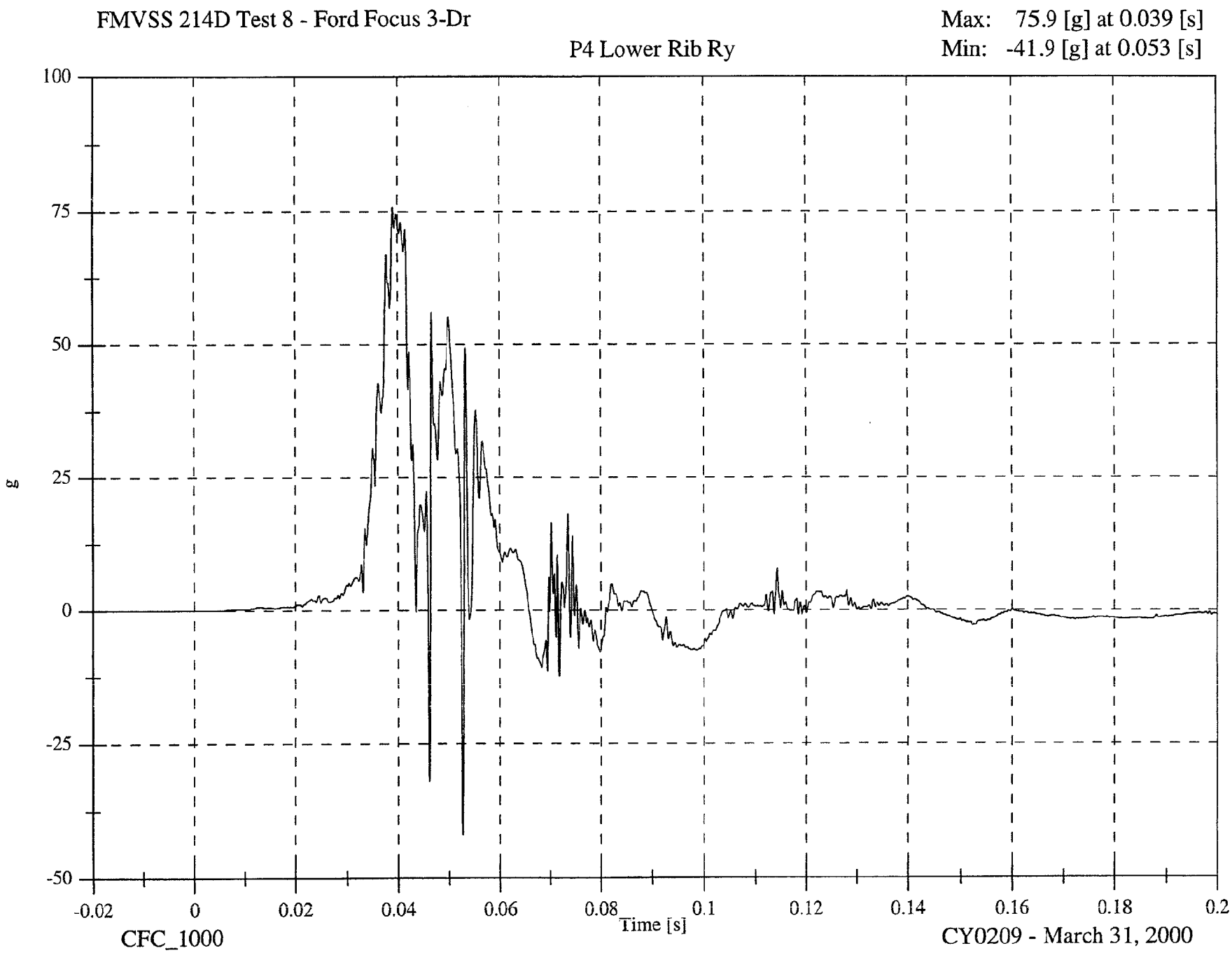

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Spine Ry Velocity
Max: 37.7 [kph] at 0.052 [s]
Min: -0.0 [kph] at -0.018 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

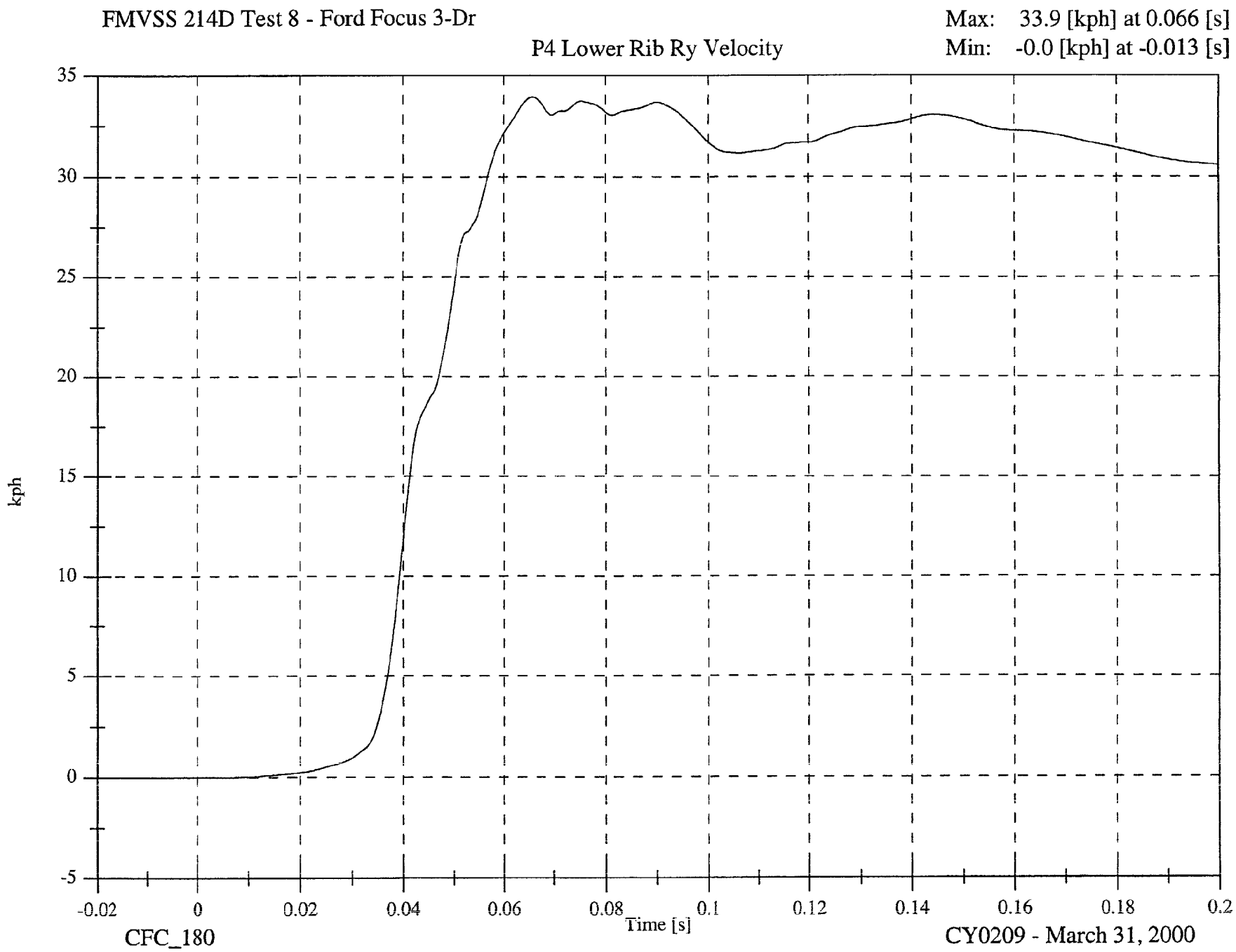

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Pelvic Ry
Max: 88.3 [g] at 0.025 [s]
Min: -14.5 [g] at 0.061 [s]
100
75
50
25
0
-25
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

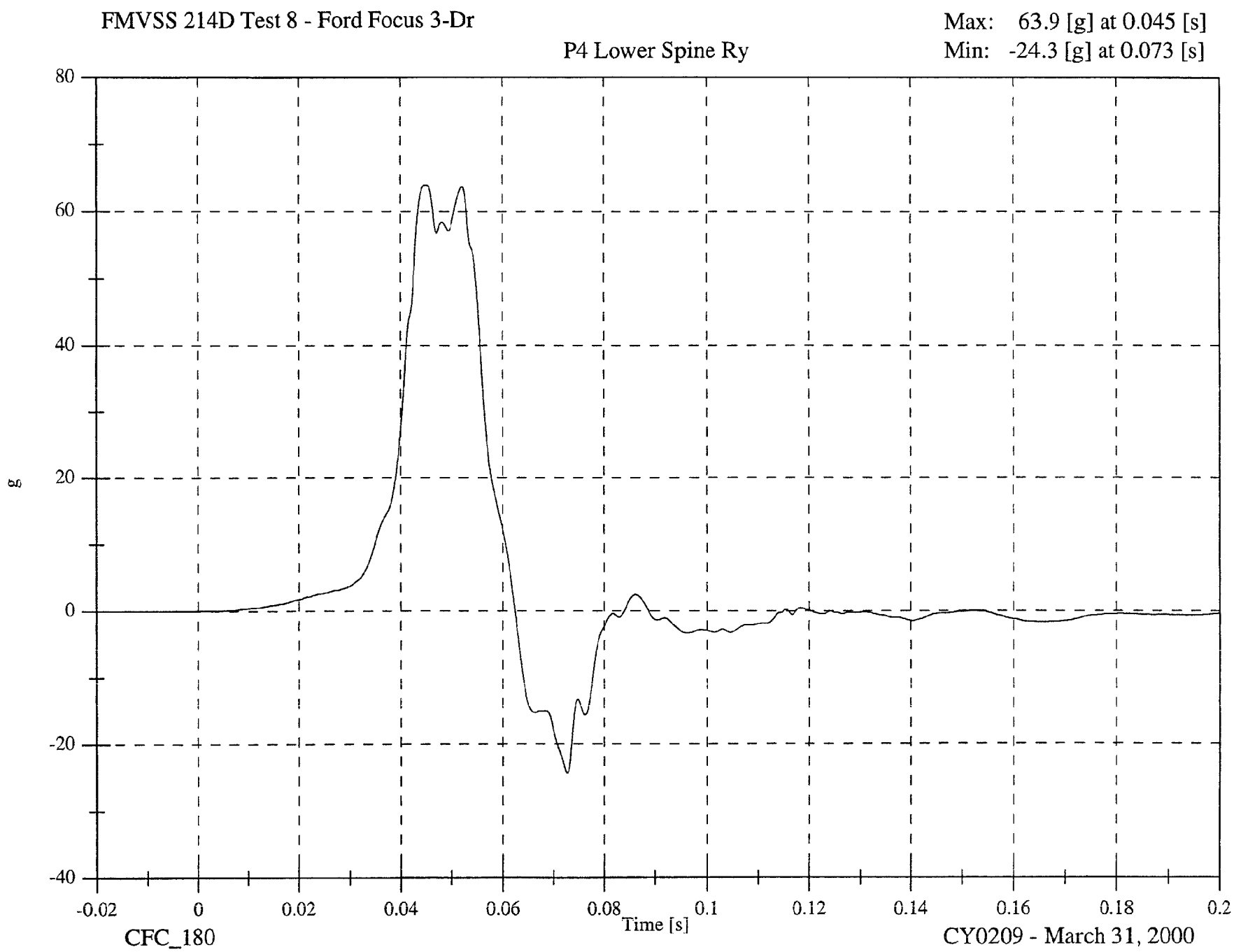

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Pelvic Ry Velocity
Max: 34.5 [kph] at 0.042 [s]
Min: -0.0 [kph] at -0.016 [s]
kph
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

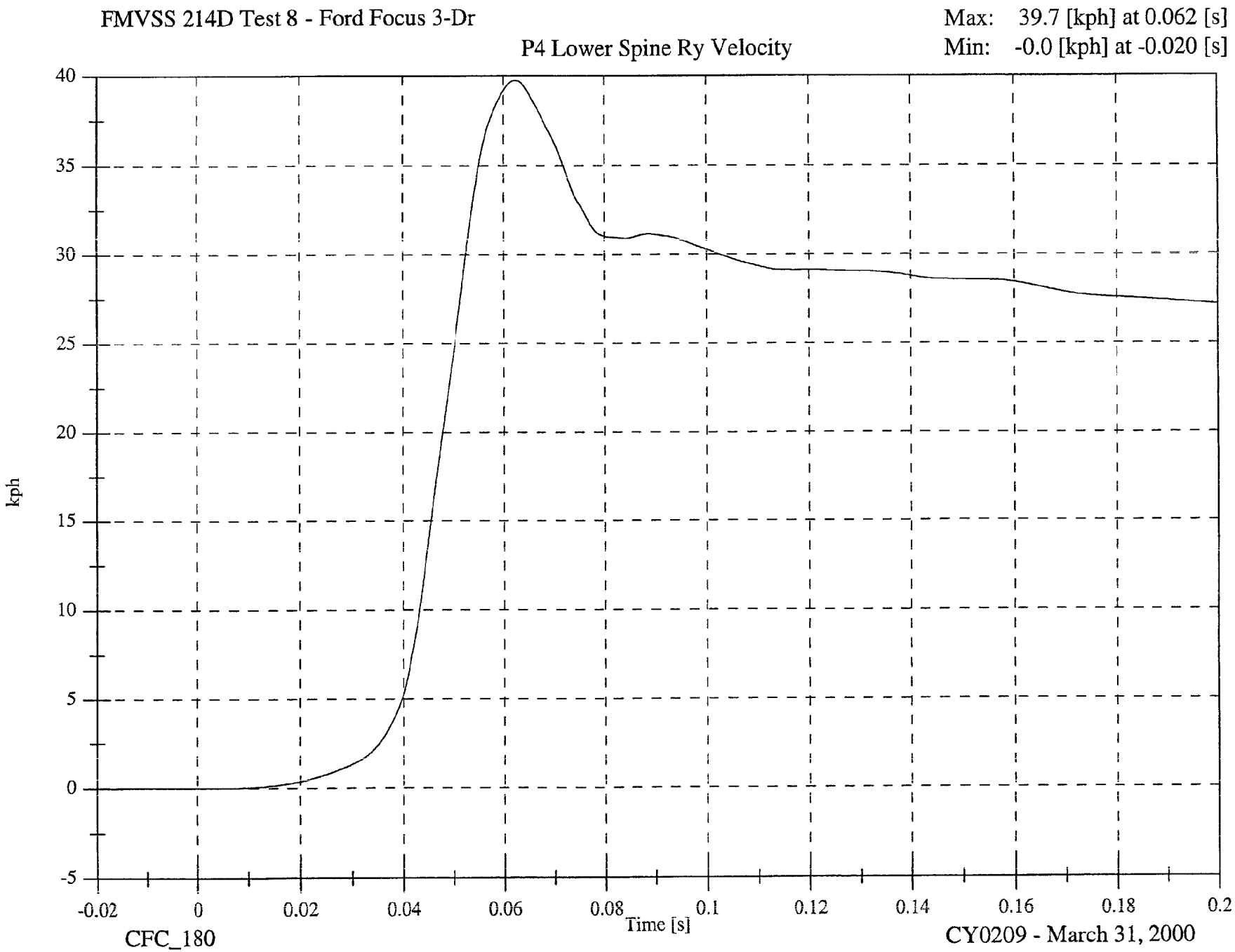

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Upper Rib Ry
Max: 68.0 [g] at 0.049 [s]
Min: -53.7 [g] at 0.053 [s]
75
50
25
0
-25
-50
-75
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

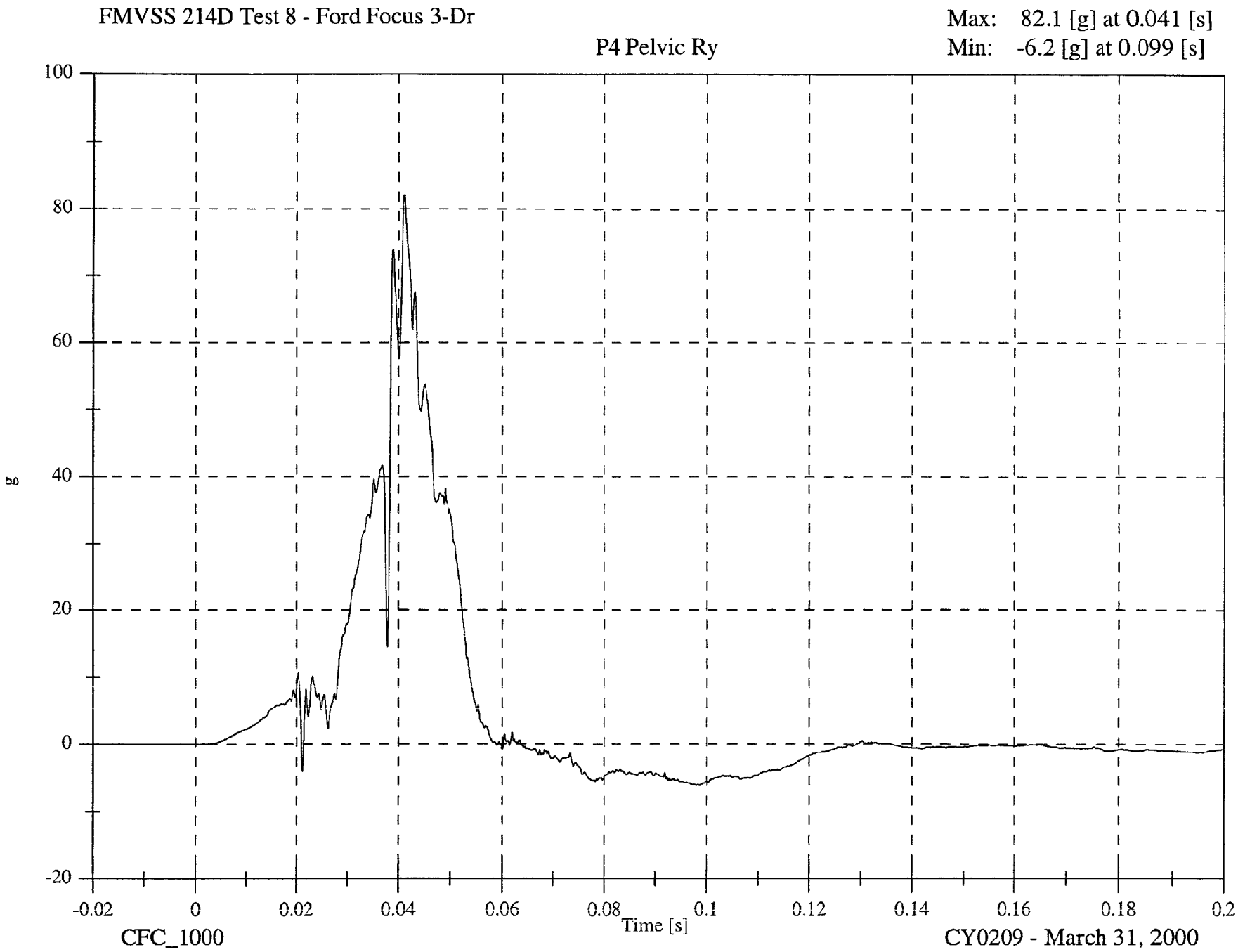

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Upper Rib Ry Velocity
Max: 36.7 [kph] at 0.132 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Rib Ry
Max: 75.9 [g] at 0.039 [s]
Min: -41.9 [g] at 0.053 [s]
100
75
50
25
0
-25
-50
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Rib Ry Velocity
Max: 33.9 [kph] at 0.066 [s]
Min: -0.0 [kph] at -0.013 [s]
kph
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

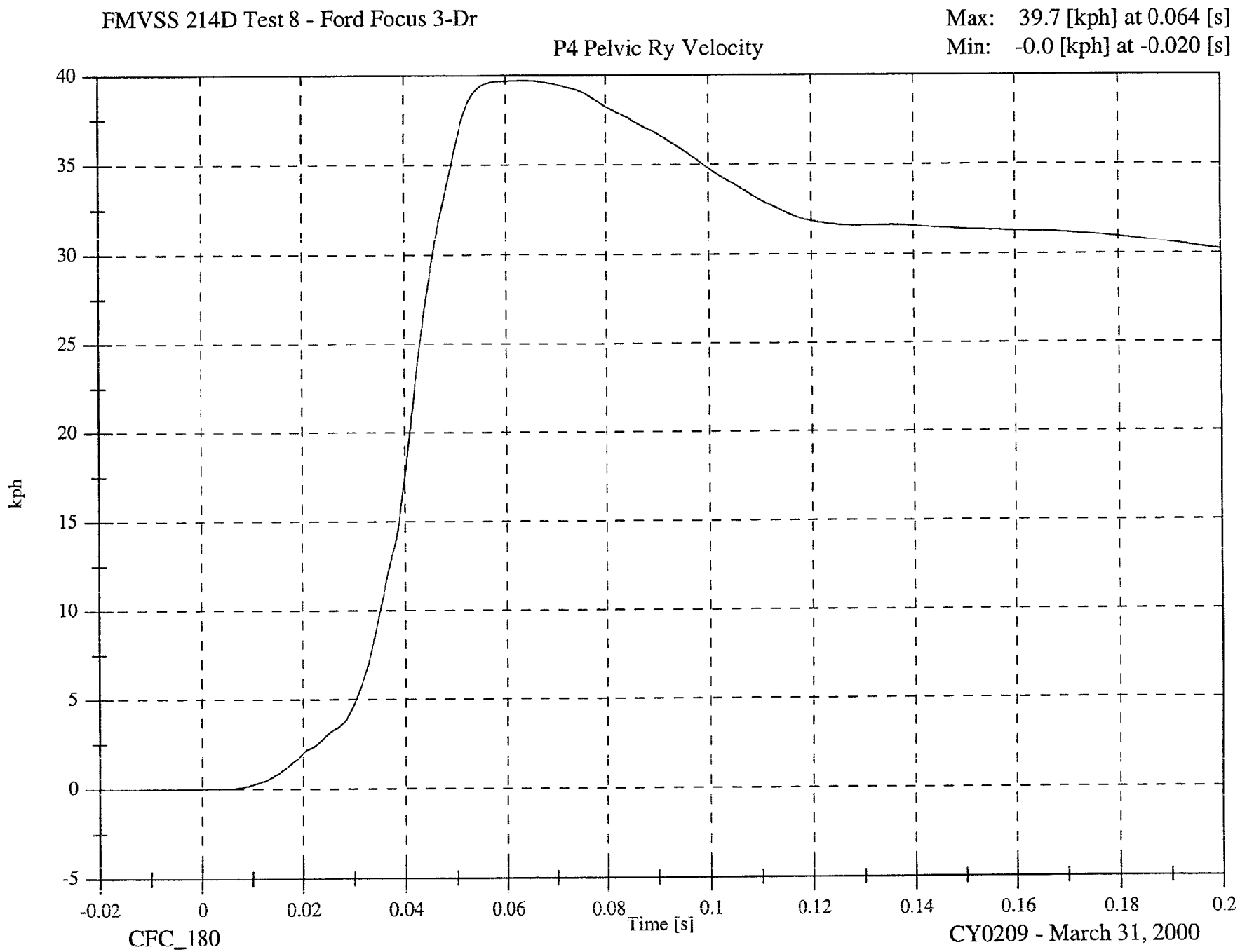

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Spine Ry
Max: 63.9 [g] at 0.045 [s]
Min: -24.3 [g] at 0.073 [s]
80
60
40
20
0
-20
-40
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

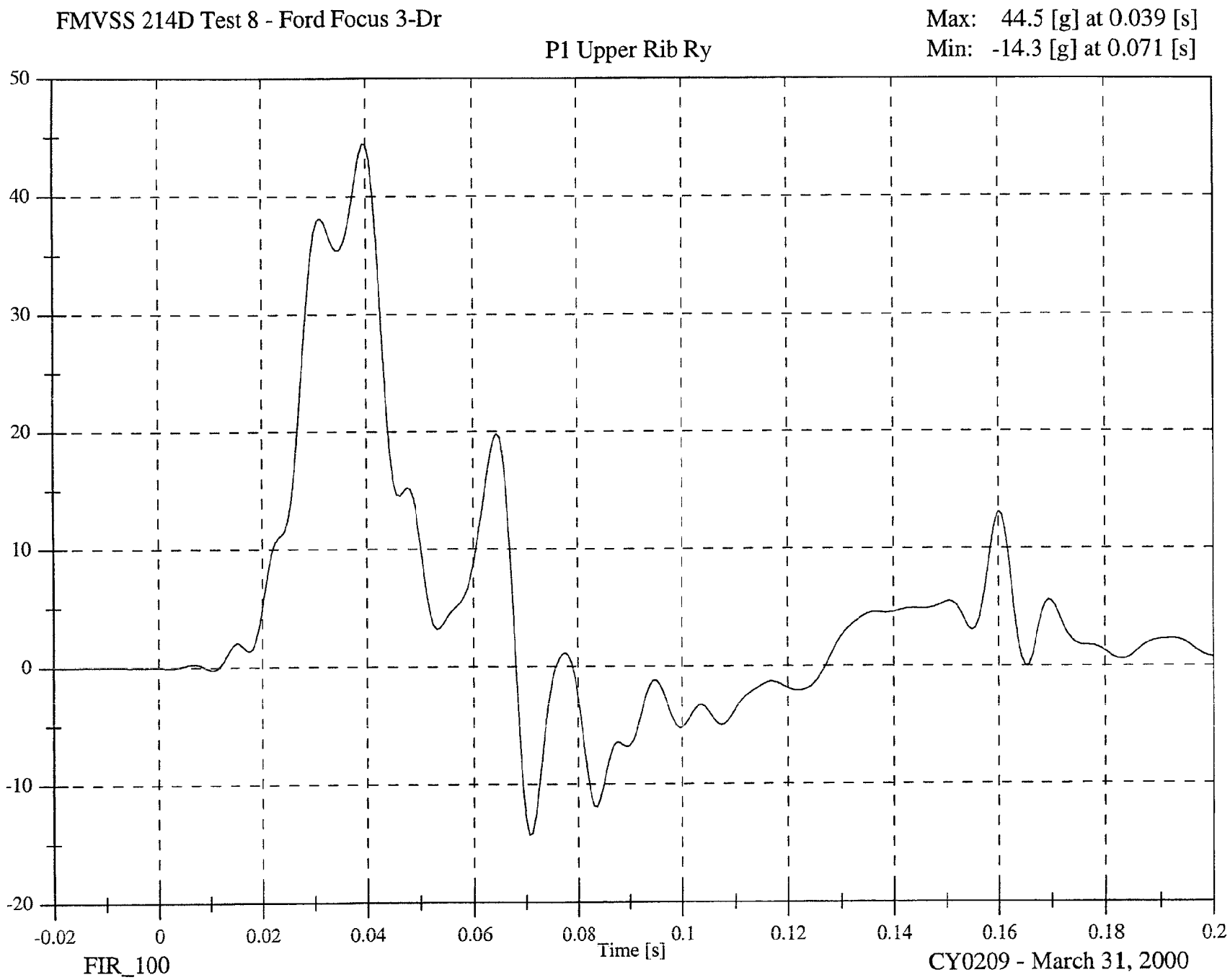

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Spine Ry Velocity
Max: 39.7 [kph] at 0.062 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

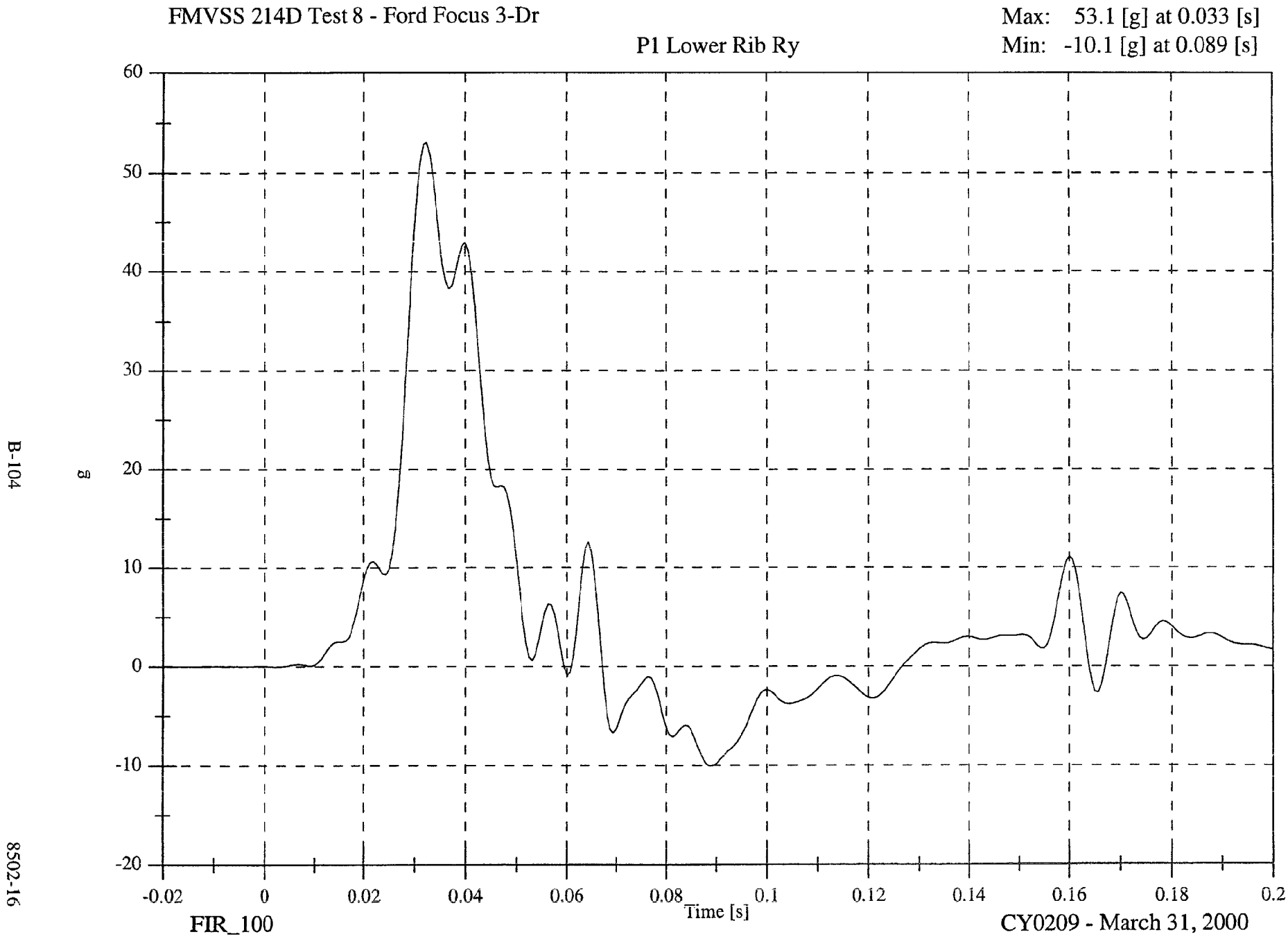

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Pelvic Ry
Max: 82.1 [g] at 0.041 [s]
Min: -6.2 [g] at 0.099 [s]
100
80
60
40
20
0
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_1000
CY0209 - March 31, 2000

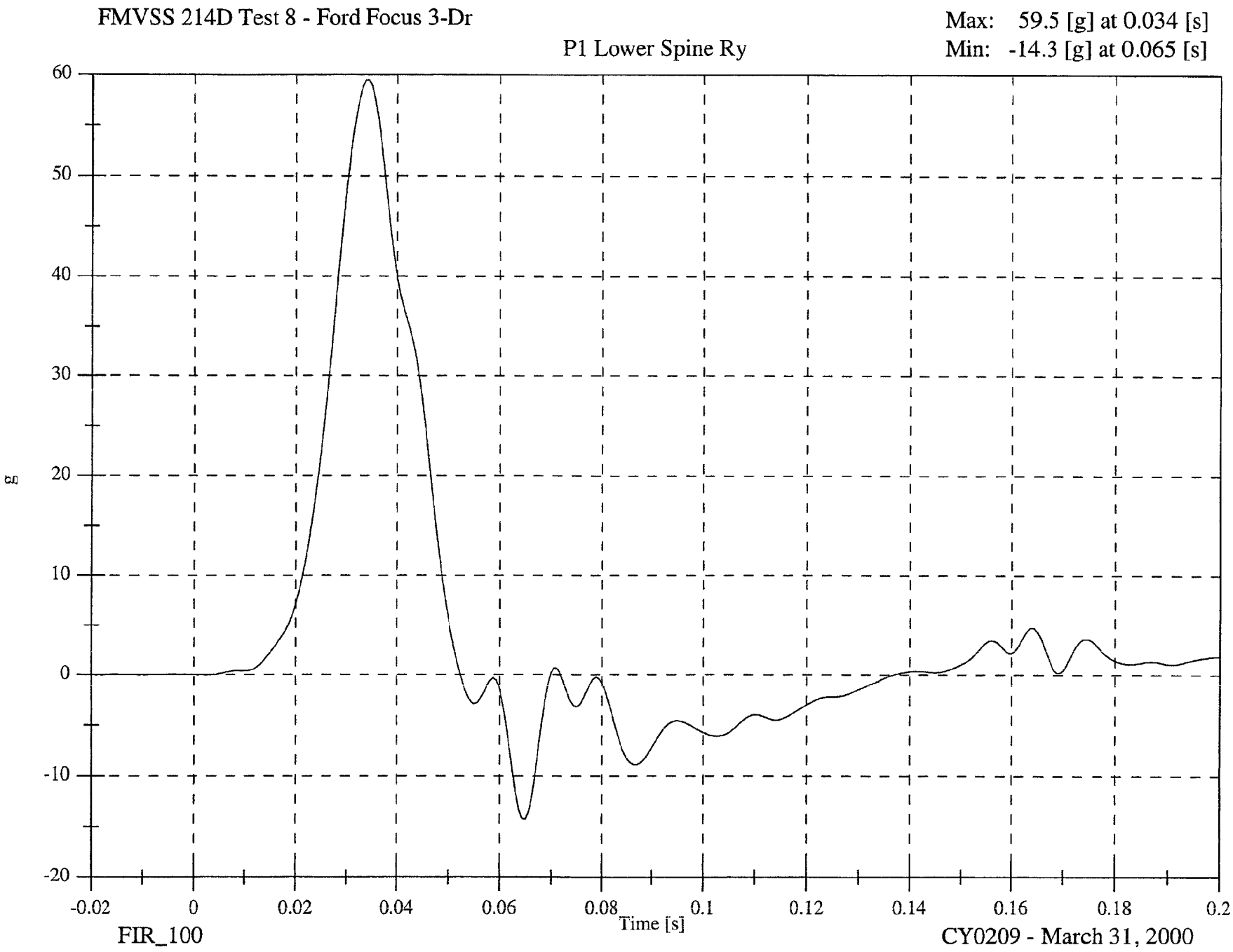
B-101

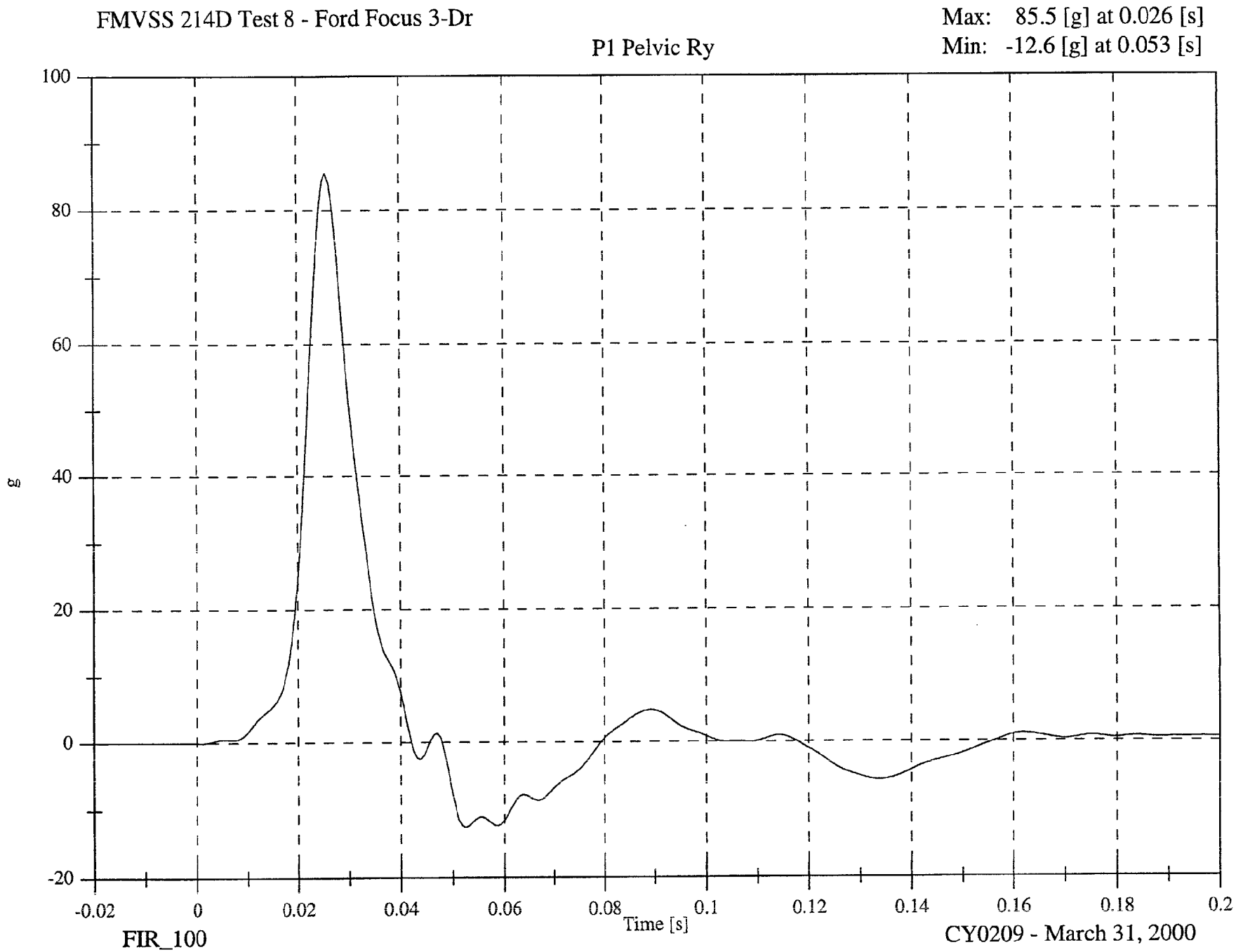
8502-16

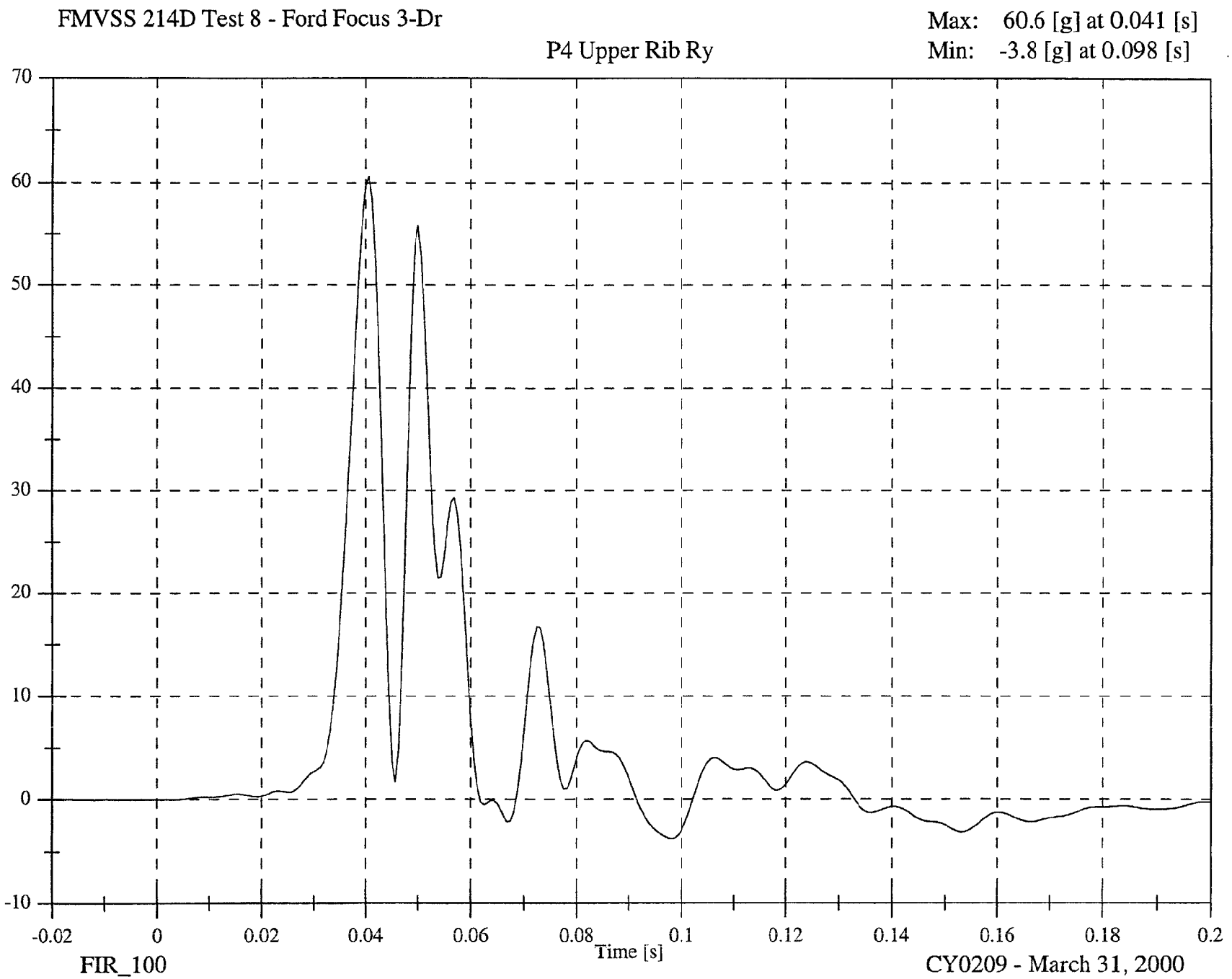

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Pelvic Ry Velocity
Max: 39.7 [kph] at 0.064 [s]
Min: -0.0 [kph] at -0.020 [s]
kph
40
35
30
25
20
15
10
5
0
-5
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
CFC_180
CY0209 - March 31, 2000

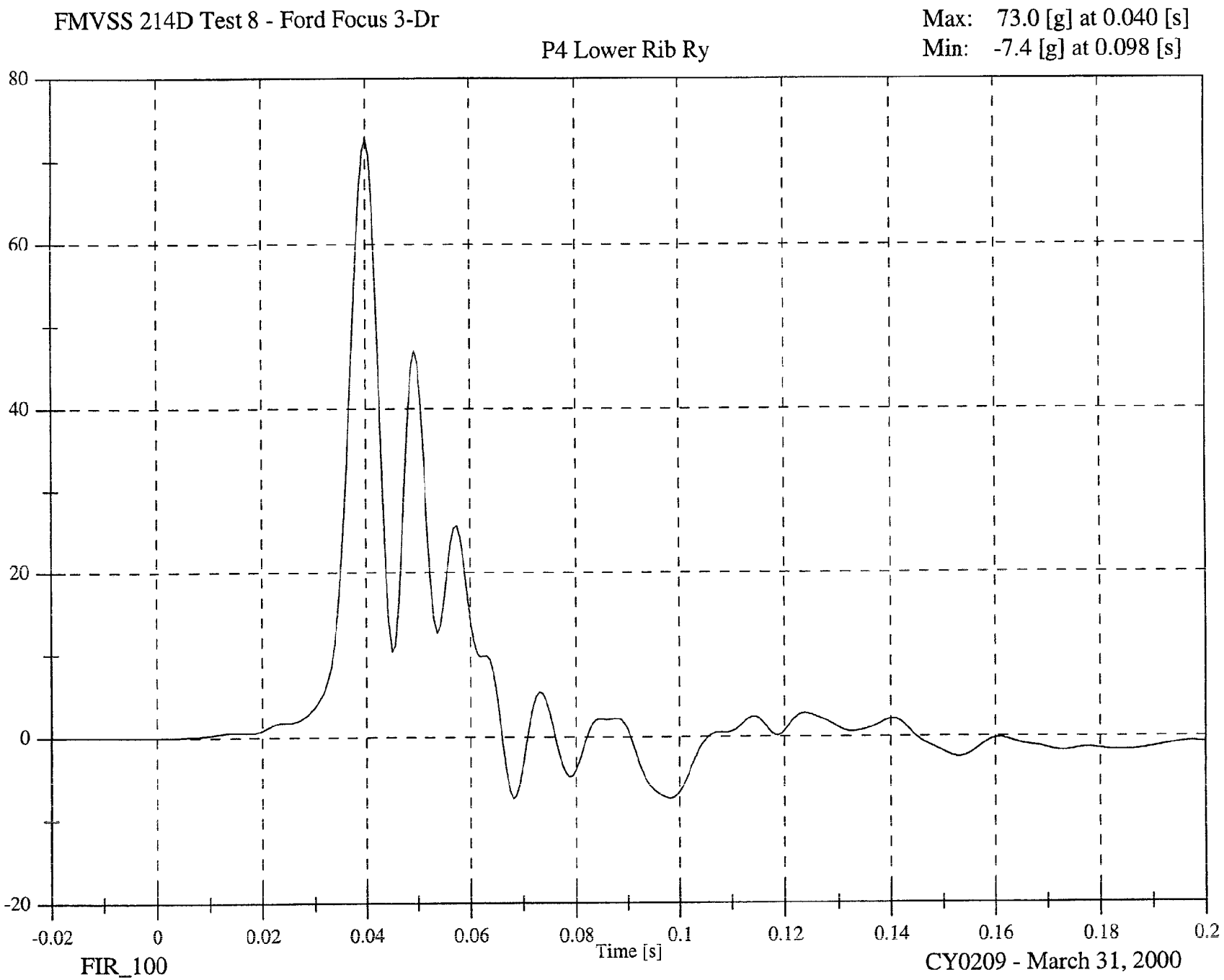

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Upper Rib Ry
Max: 44.5 [g] at 0.039 [s]
Min: -14.3 [g] at 0.071 [s]
50
40
30
20
10
0
-10
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

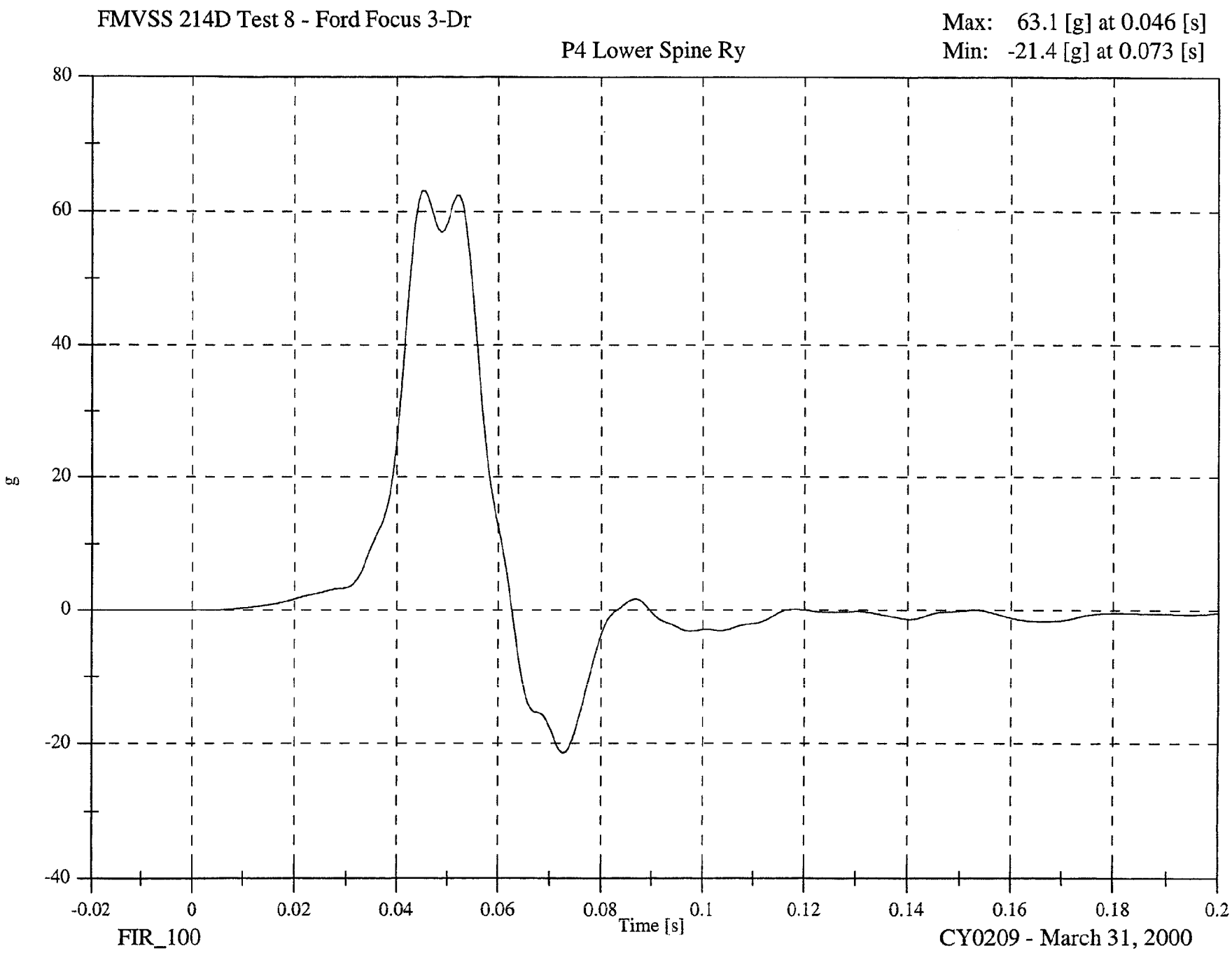

FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Rib Ry
Max: 53.1 [g] at 0.033 [s]
Min: -10.1 [g] at 0.089 [s]
60
50
40
30
20
10
0
-10
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Lower Spine Ry
Max: 59.5 [g] at 0.034 [s]
Min: -14.3 [g] at 0.065 [s]
60
50
40
30
20
10
0
-10
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
P1 Pelvic Ry
Max: 85.5 [g] at 0.026 [s]
Min: -12.6 [g] at 0.053 [s]
100
80
60
40
20
0
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

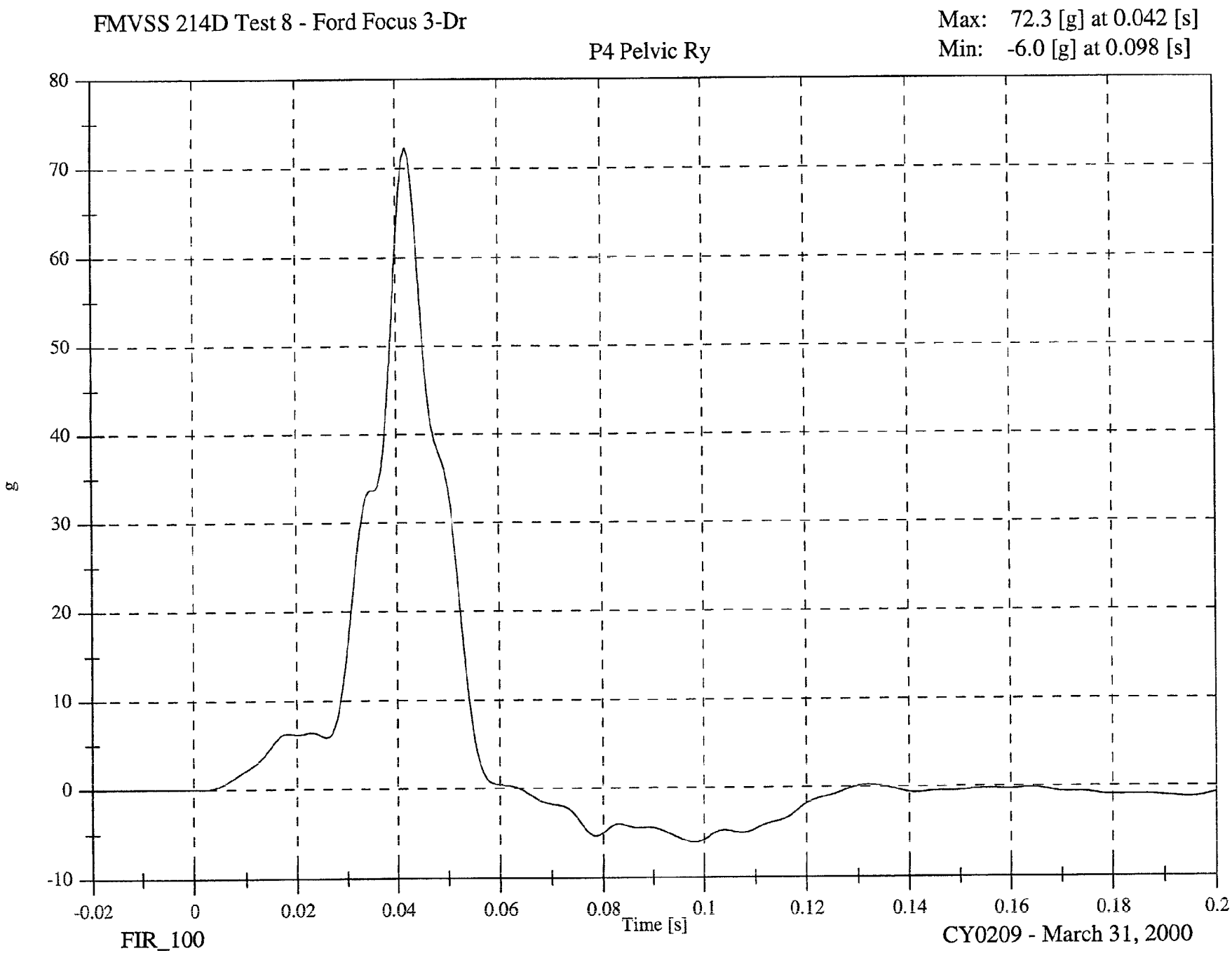

FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Upper Rib Ry
Max: 60.6 [g] at 0.041 [s]
Min: -3.8 [g] at 0.098 [s]
g
70
60
50
40
30
20
10
0
-10
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Rib Ry
Max: 73.0 [g] at 0.040 [s]
Min: -7.4 [g] at 0.098 [s]
80
60
40
20
0
-20
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000


FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Lower Spine Ry
Max: 63.1 [g] at 0.046 [s]
Min: -21.4 [g] at 0.073 [s]
80
60
40
20
0
-20
-40
g
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

B-109

8502-16


FMVSS 214D Test 8 - Ford Focus 3-Dr
P4 Pelvic Ry
Max: 72.3 [g] at 0.042 [s]
Min: -6.0 [g] at 0.098 [s]
g
80
70
60
50
40
30
20
10
0
-10
-0.02
0
0.02
0.04
0.06
0.08
0.1
0.12
0.14
0.16
0.18
0.2
Time [s]
FIR_100
CY0209 - March 31, 2000

APPENDIX C

SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA

SUMMARY
SID PRE & POST TEST CALIBRATION

CONFIGURED FOR LEFT SIDE IMPACT

Date: February 1, 2000; January 21, 2000

Sequential Test Number: 4; 5

Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	SID NO.: 016		SID NO.: 268	
		PRE TEST	POST TEST	PRE TEST	POST TEST
SH- Seated Height (mm)	889 - 909	902	902	899	899
RH- Rib Height (mm)	501 - 521	513	513	513	513
HP- Hip Pivot Height (mm)	99 ref.	99	99	99	99
RD- Rib from Back Line (mm)	229 - 241	239	239	236	236
KV- Knee Pivot from Back Line (mm)	511 - 526	526	526	518	518
SW- Knee Pivot to Floor (mm)	490 - 505	494	494	495	495
HW- Hip Width (mm)	356 - 391	363	364	376	377
THORAX IMPACTS					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE. HUMIDITY (%)	10 -70	31	30	31	30
PROBE SPEED (m/s)	4.27 - 4.33	4.29	4.31	4.28	4.29
UPPER RIB (g's)	37 - 46	44.1	40.1	41.3	40.1
LOWER RIB (g's)	37 - 46	43.5	39.3	37.5	37.9
LOWER SPINE (g's)	15 -22	21.4	21.1	19.8	21.0
PELVIS IMPACT					
TEMPERATURE (°C)	18.9 - 25.5	21.1	21.1	21.1	21.1
RELATIVE HUMIDITY (%)	10 - 70	31	30	31	30
PROBE SPEED (m/s)	4.27 - 4.33	4.28	4.30	4.28	4.29
PELVIS (g's)	40 -60	49.1	43.9	53.4	52.8

REMARKS: None

CALIBRATION TEST RESULTS
PRE-TEST

SID NO.: 016

CONFIGURED FOR LEFT SIDE IMPACT

CALIBRATION TEST RESULTS SUMMARY
PRE-TEST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 1
Date: March 27, 2000 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.
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 Serial No.: 016 Sequential Test Number: 1
Date: March 27, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	239
KH- Knee Pivot from Back Line (mm)	511 - 526	526
KV- Knee Pivot to Floor (mm)	490 - 505	494
HW- Hip Width (mm)	356 - 391	363

REMARKS: None

THORACIC SHOCK ABSORBER TESTS
PRE-TEST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 4
Date: February 1, 2000 Laboratory Technician: B. Swiecicki

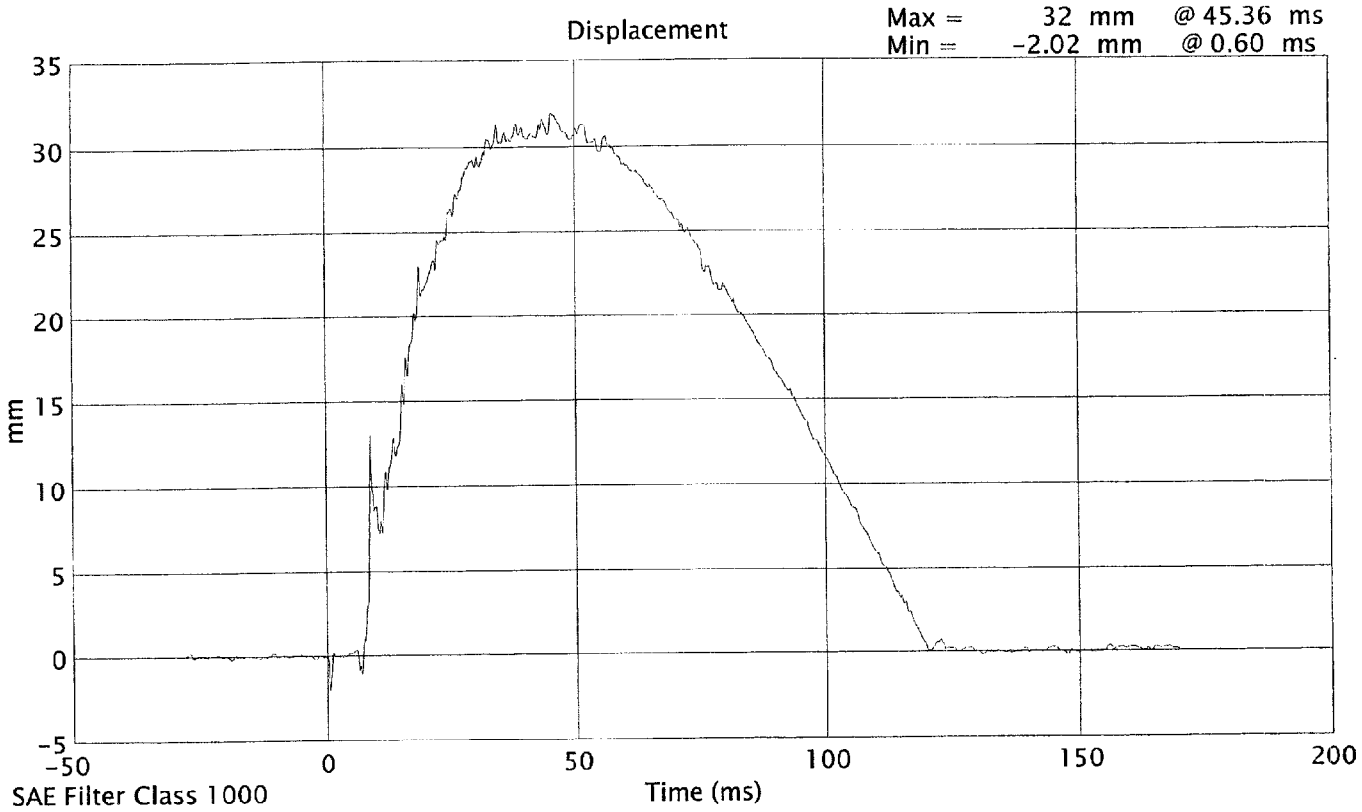
DAMPER IDENTIFICATION: 016

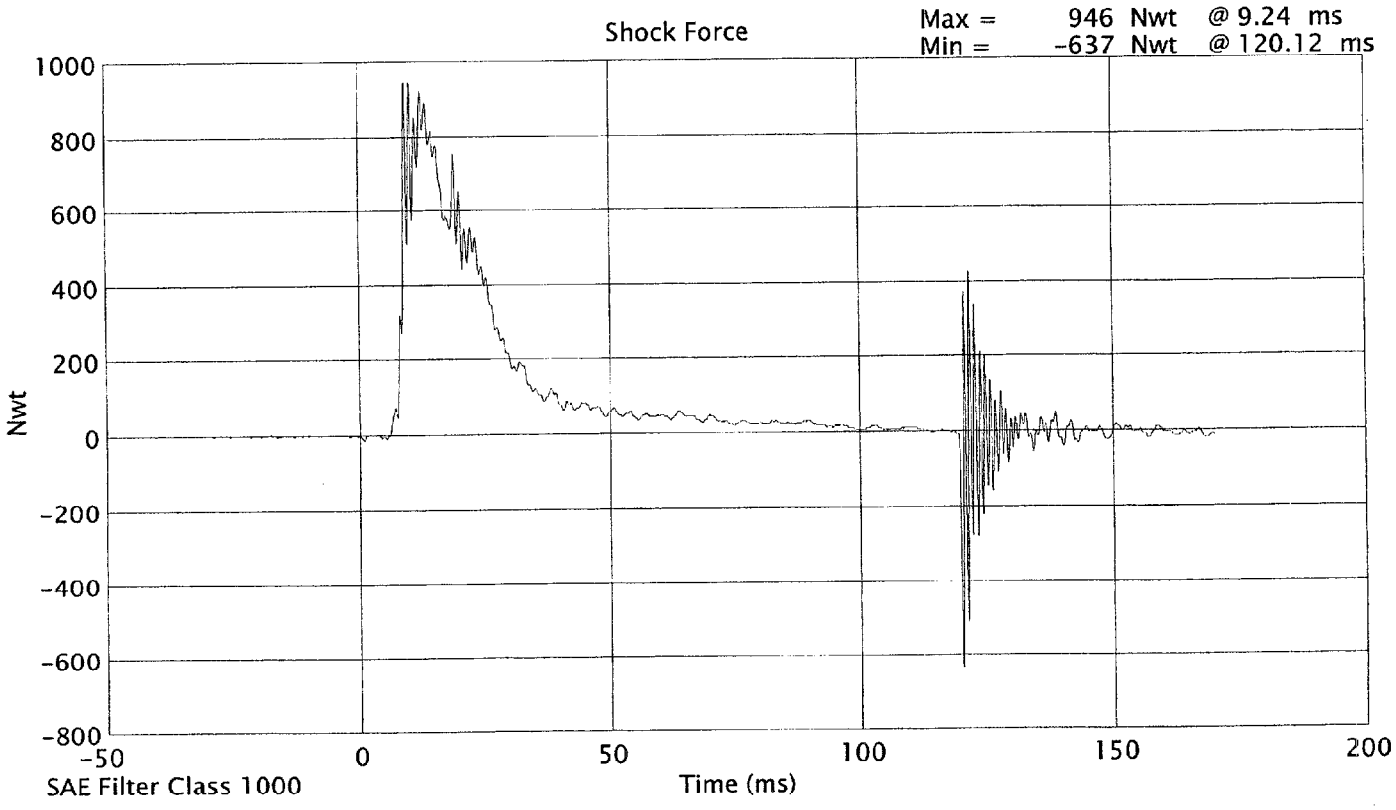
TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)		18.9 - 25.5	21.7
RELATIVE HUMIDITY (%)		10 - 70	31
VELOCITY 3.05 m/s	FORCE (N)	836 - 1125	946.4
	DISPLACEMENT (mm)	30 - 35	32.0
VELOCITY 4.27 m/s	FORCE (N)	1730 - 2099	1798.6
	DISPLACEMENT (mm)	32 - 37	34.6
VELOCITY 6.10 m/s	FORCE (N)	3741 - 4448	3836.7
	DISPLACEMENT (mm)	33 - 40	35.9

DAMPER SETTING: 5

REMARKS: None

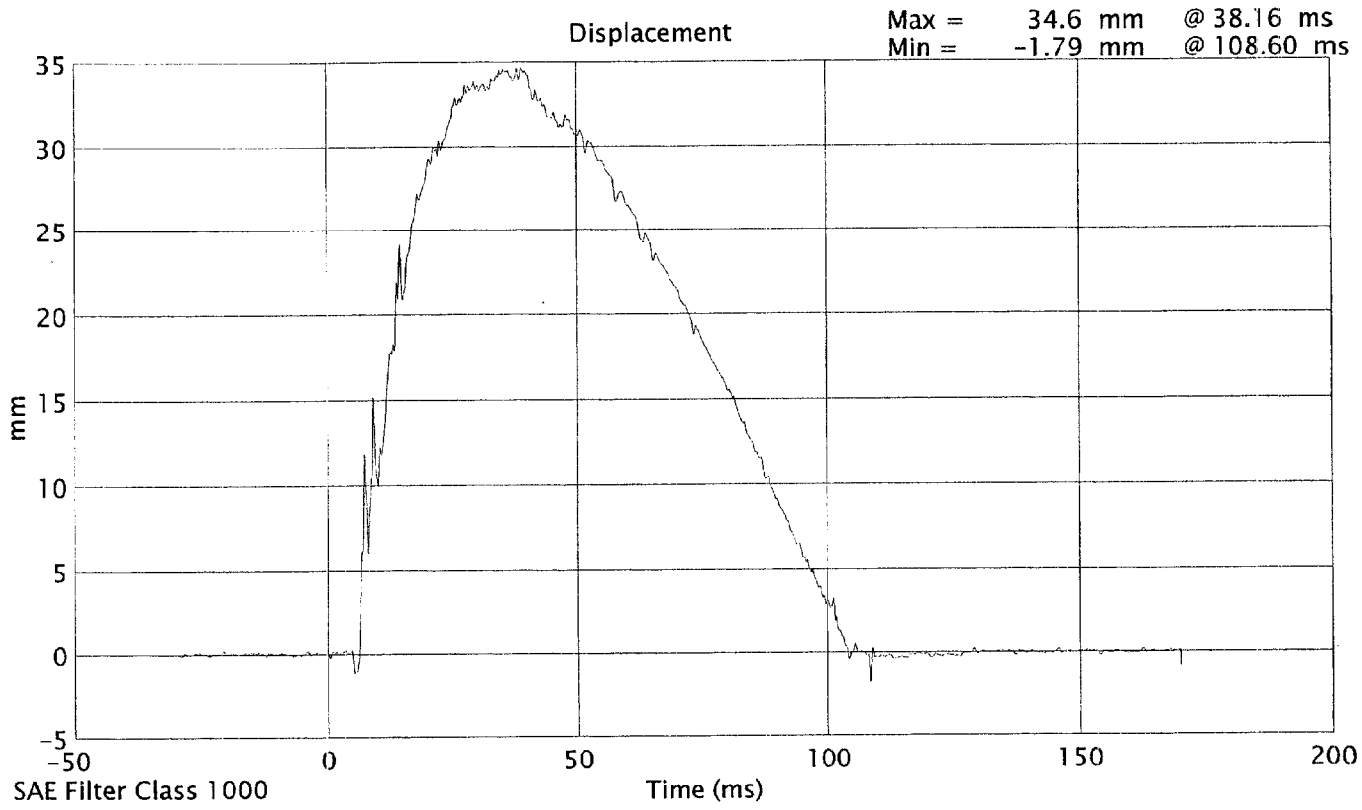
SID 016 Shock Absorber Impact Test @ 3.048 m/s

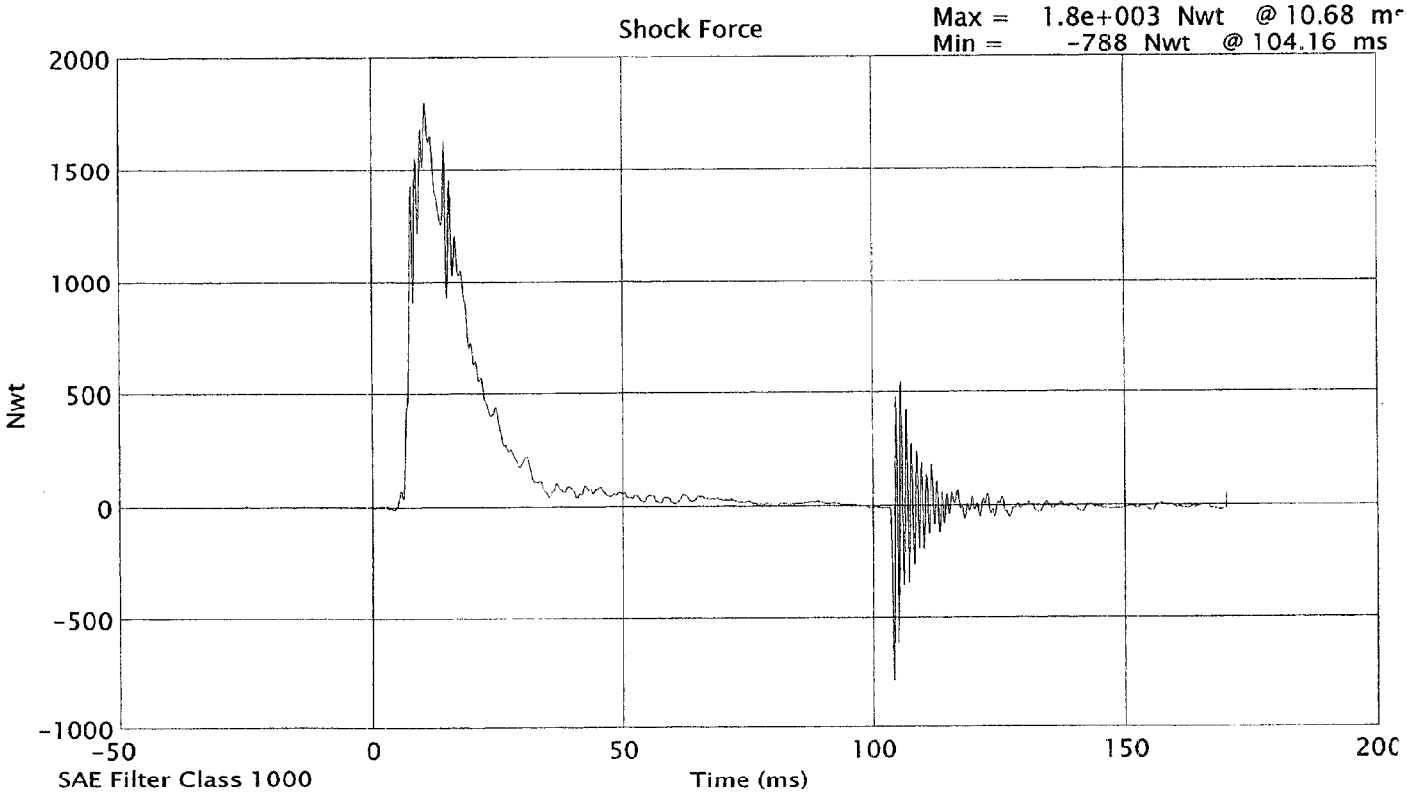




8502-16

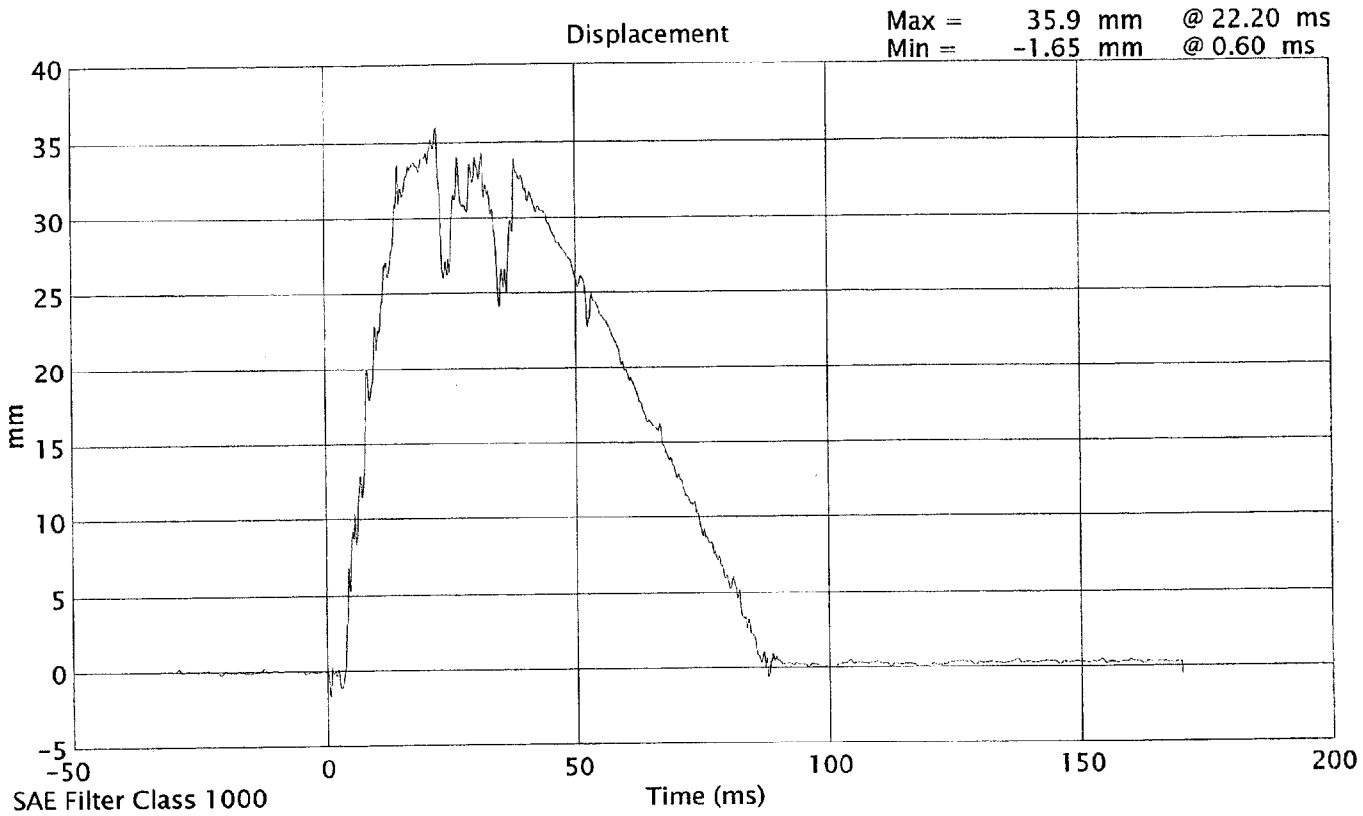
SID 016 Shock Absorber Impact Test @ 4.2672 m/s

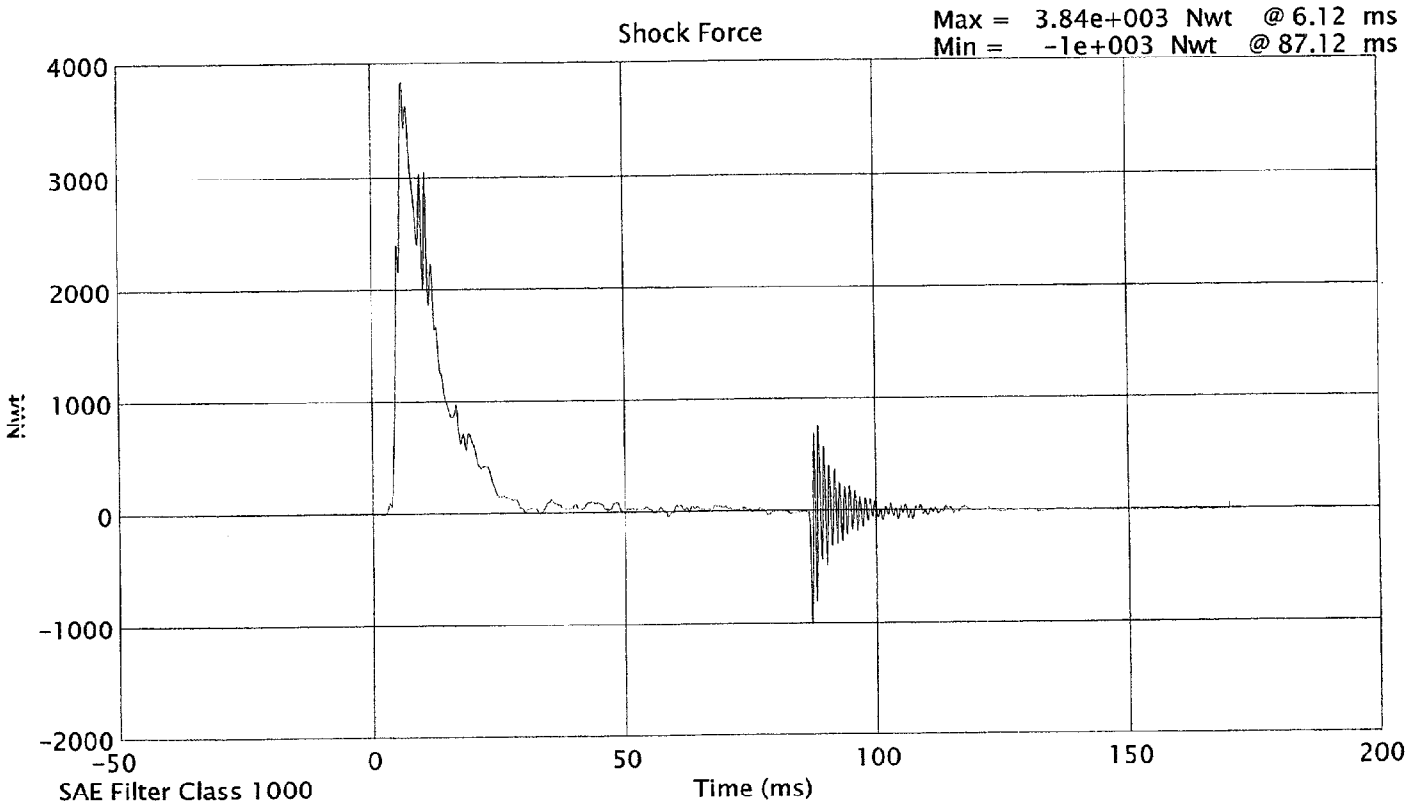




8502-16

SID 016 Shock Absorber Impact Test @ 6.096 m/s





LATERAL THORAX IMPACT TEST
PRE-TEST

CONFIGURED FOR LEFT SIDE IMPACT

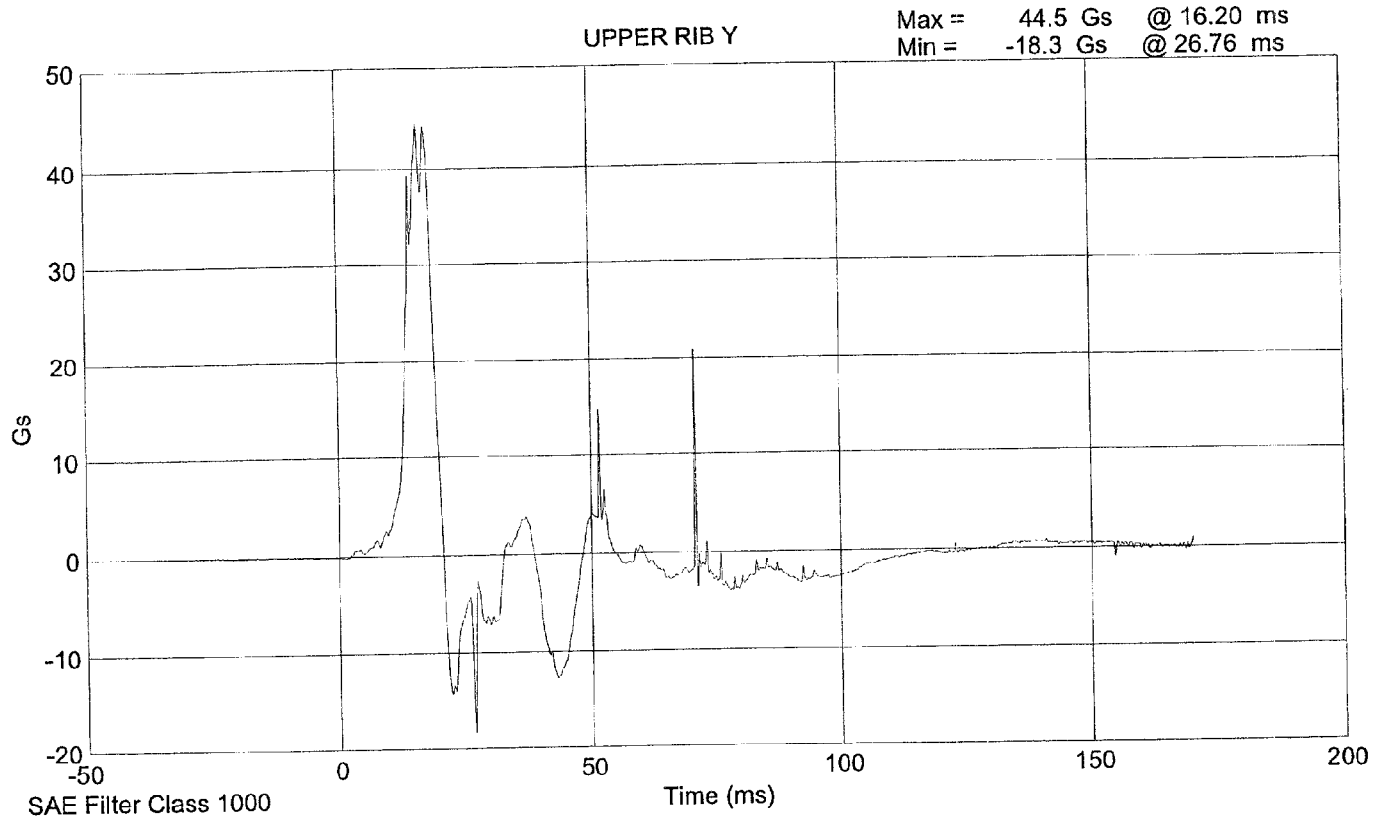
SID Serial No.: 016 Sequential Test Number: 1

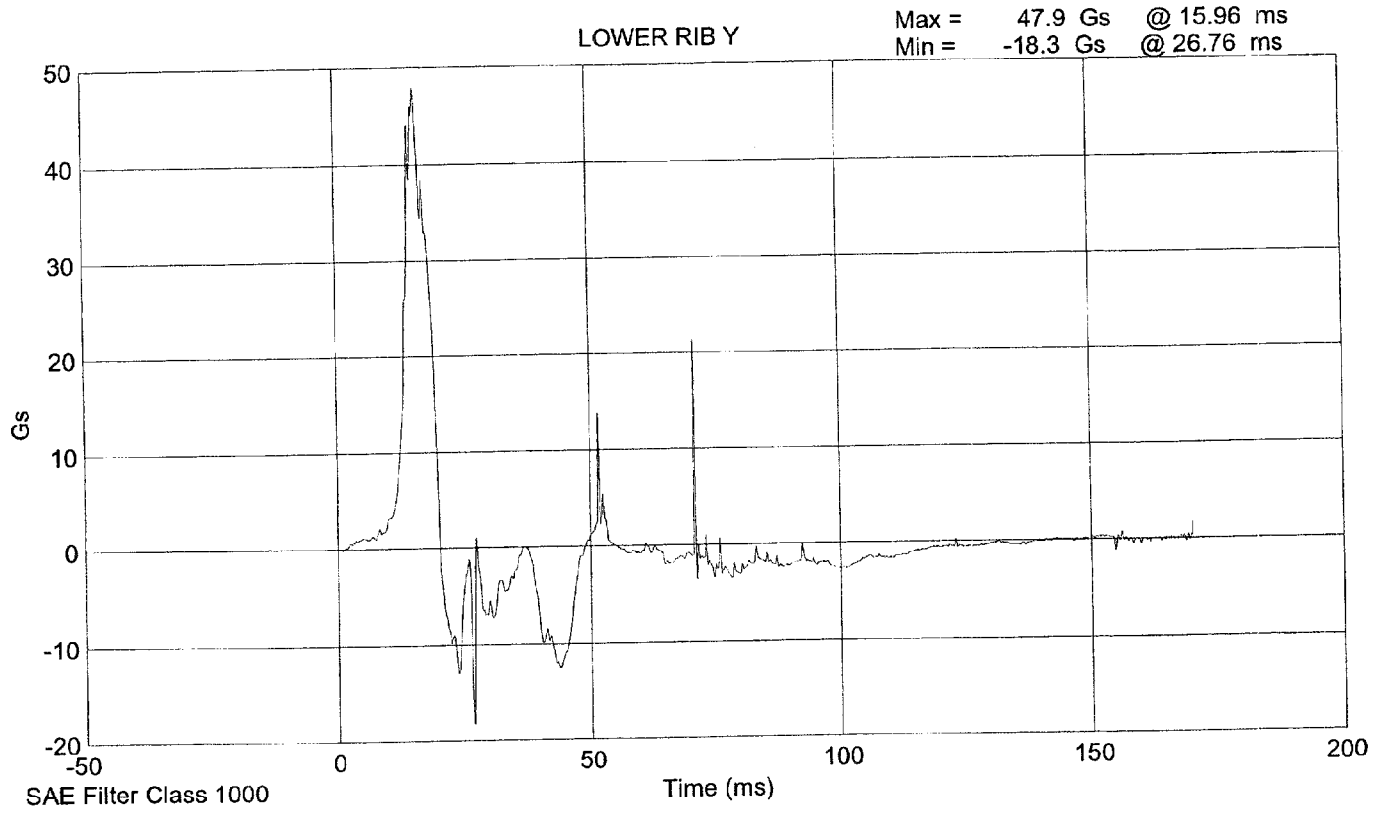
Date: March 27, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE. HUMIDITY (%)	10 - 70	31
PROBE SPEED (m/s)	4.27 - 4.33	4.29
UPPER RIB (g's)	37 - 46	44.1
LOWER RIB (g's)	37 - 46	43.5
LOWER SPINE (g's)	15 - 22	21.4

REMARKS: None

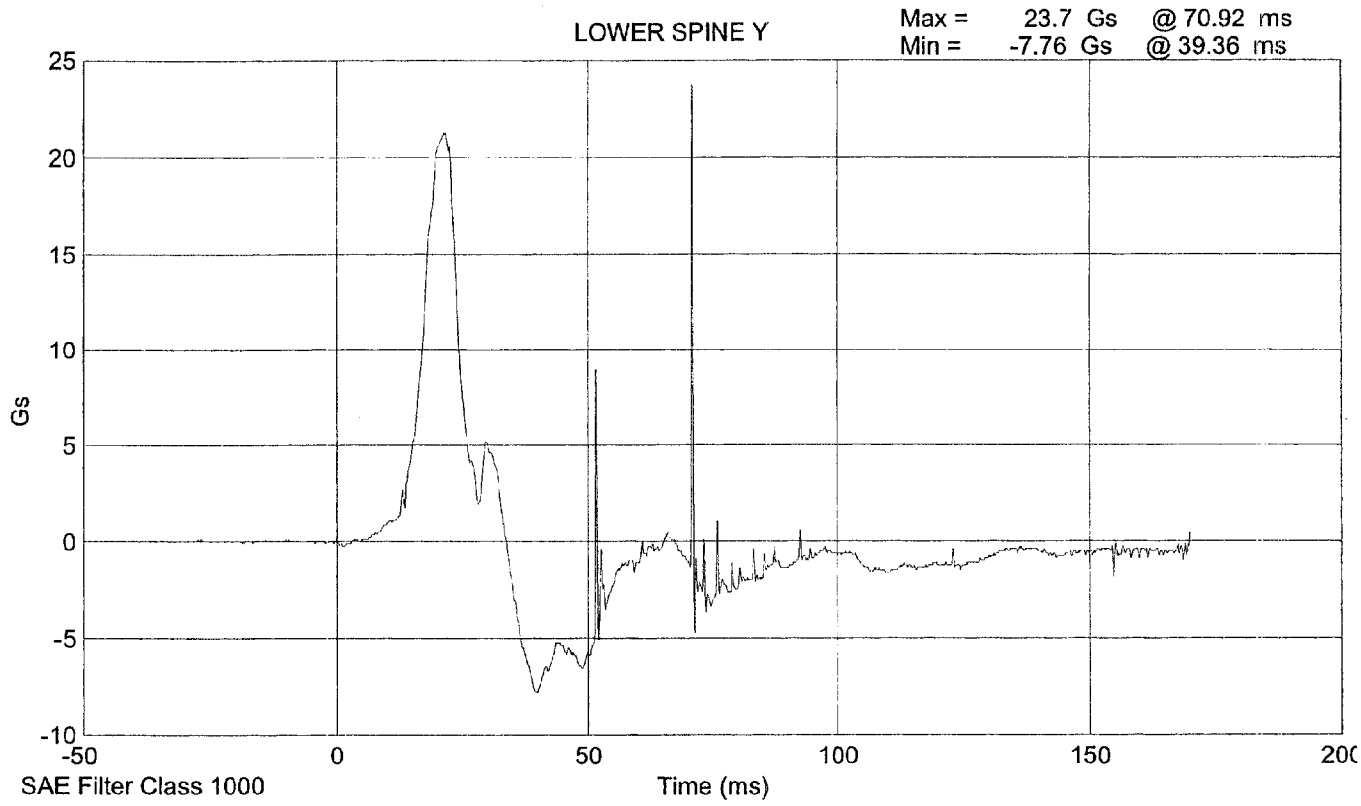
SID 016 Thorax Impact Test @ 4.2916 m/s

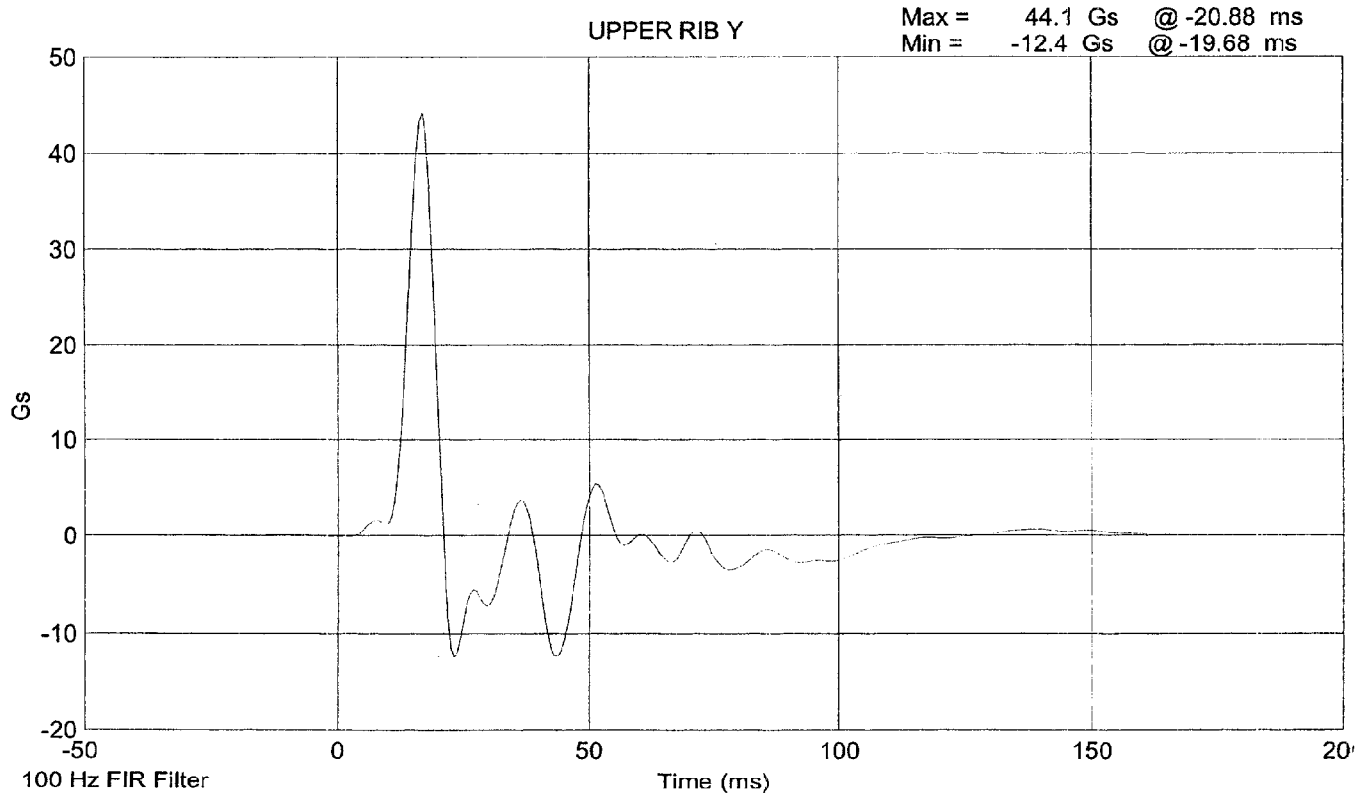




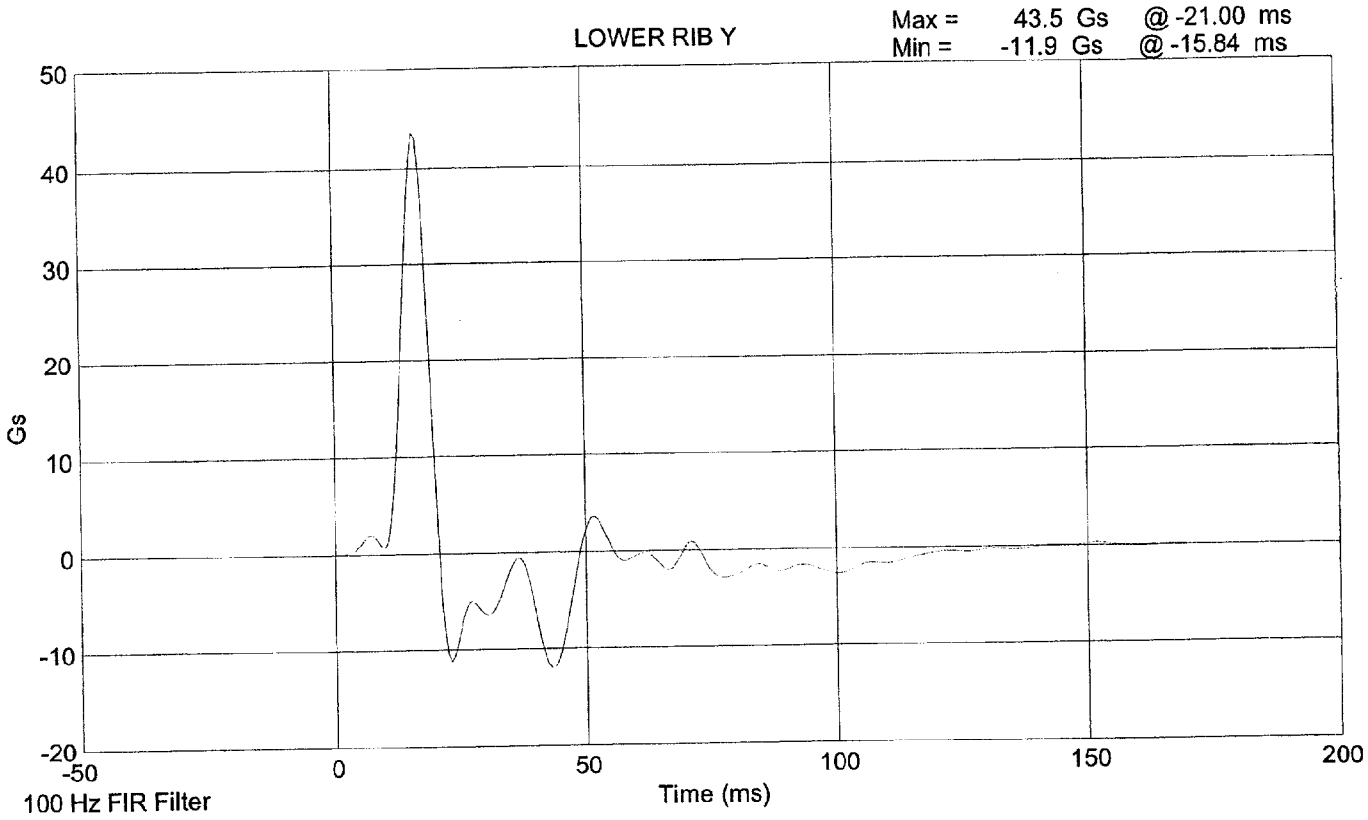
8502-16

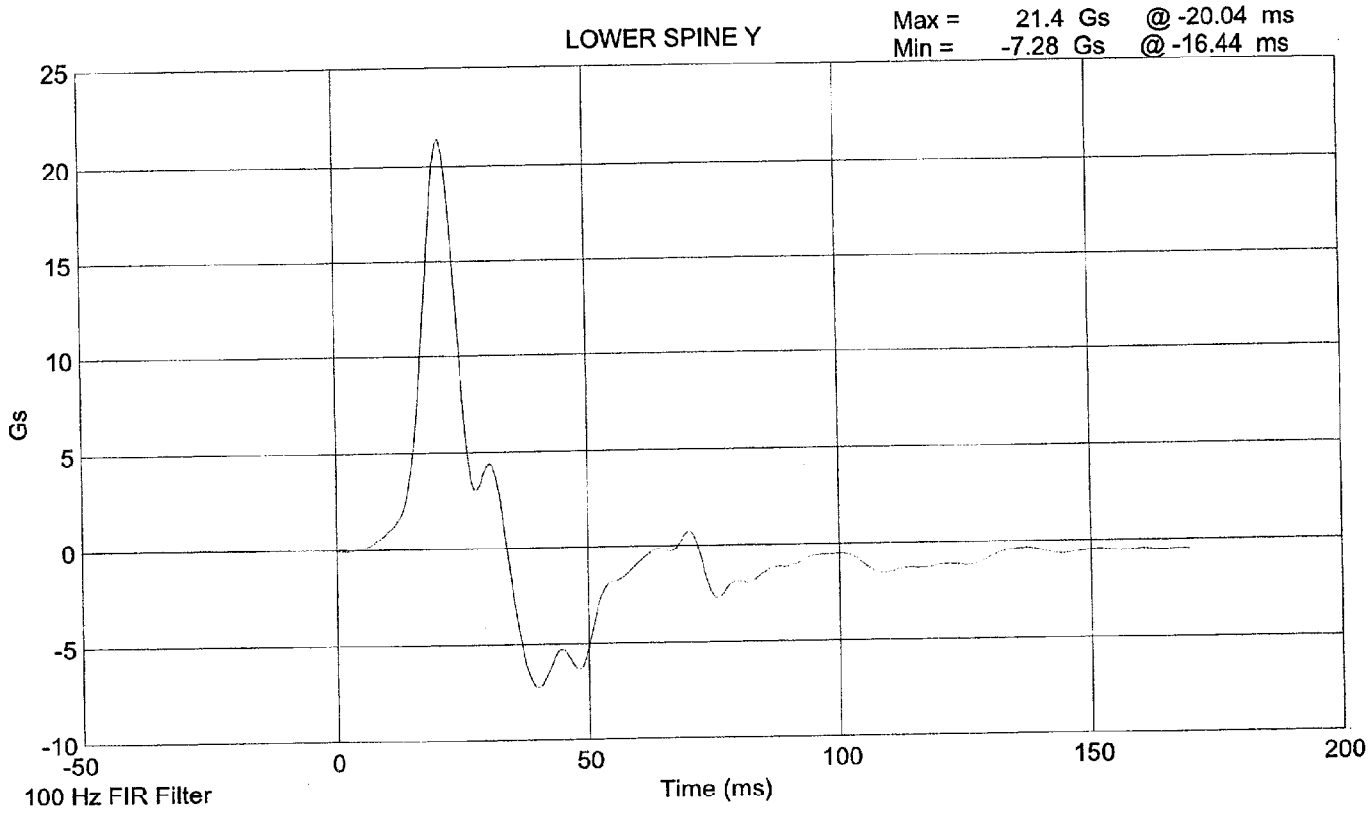
SID 016 Thorax Impact Test @ 4.2916 m/s





SID 016 Thorax Impact Test @ 4.2916 m/s





LATERAL PELVIS IMPACT TEST
PRE-TEST

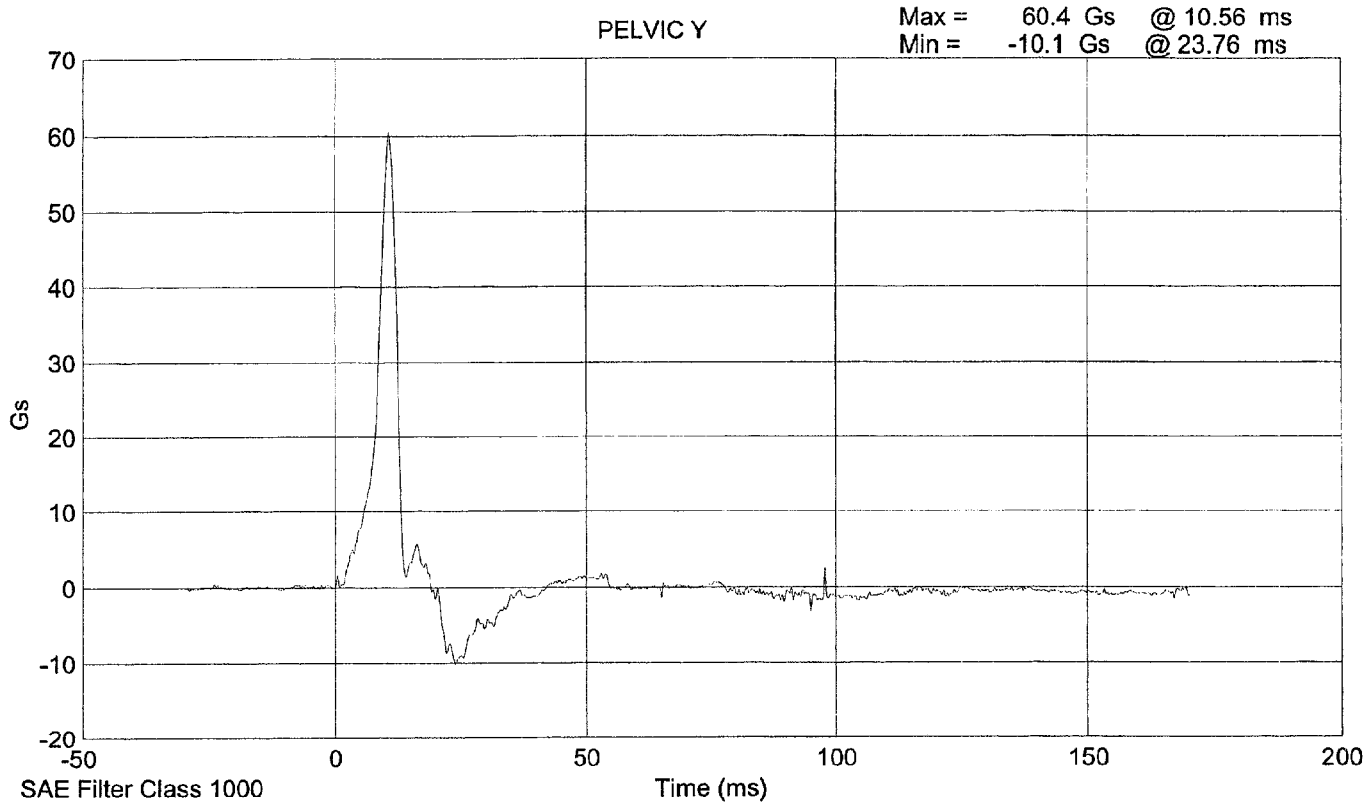
CONFIGURED FOR LEFT SIDE IMPACT

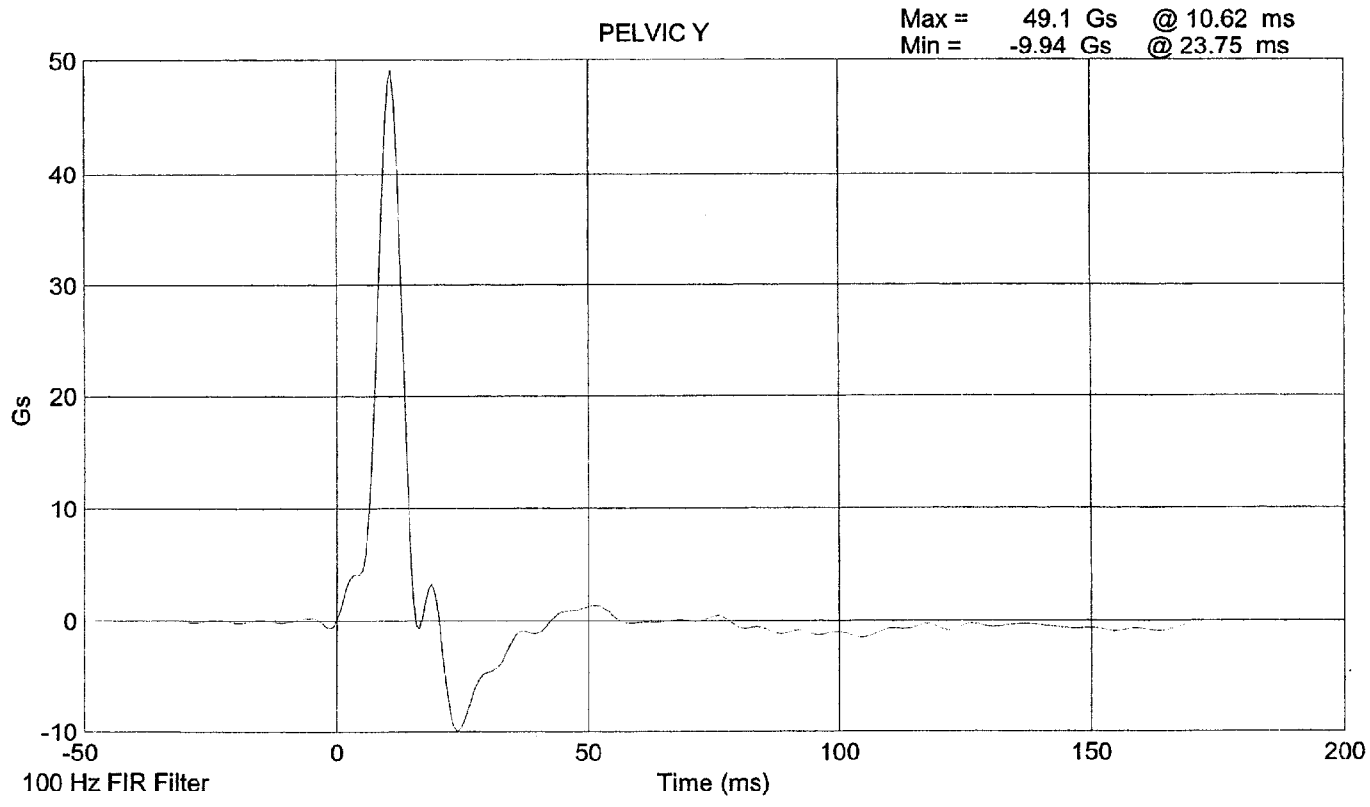
SID Serial No.: 016 Sequential Test Number: 1
Date: March 27, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE. HUMIDITY (%)	10 - 70	31
PROBE SPEED (m/s)	4.27 - 4.33	4.28
PELVIS ACCELERATION (g's)	40 - 60	49.1

REMARKS: None

SID 016 Pelvic Impact Test @ 4.2794 m/s





ABDOMINAL COMPRESSION TEST
PRE-TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 1
Date: March 27, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	31
FORCE @ 13 mm (N)	104 - 162	114
FORCE @ 19 mm (N)	163 - 221	178
FORCE @ 25 mm (N)	222 - 280	240
FORCE @ 33 mm (N)	325 - 391	331

REMARKS: None

Dummy S/N 016

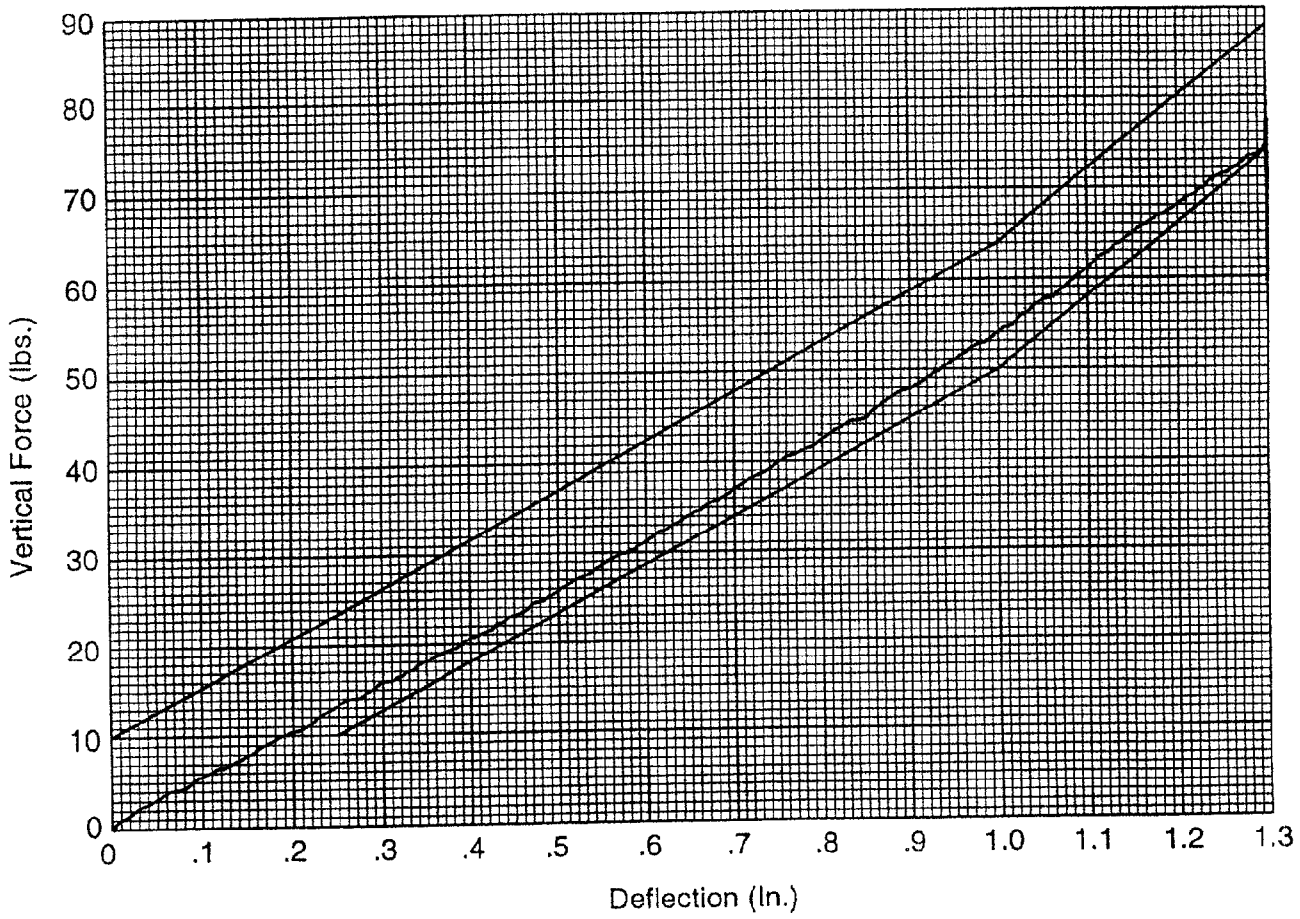
W/A

Date 3-27-2000

Performed By

Temp. 70°

Humidity 31%



Hybrid II
Abdomen Static Press

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

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 1
Date: March 27, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	31
FORCE @ 0° (N)	0 - 26.7	0
FORCE @ 20° (N)	97.8 - 151.2	132.1
FORCE @ 30° (N)	151.2 - 204.6	186.8
FORCE @ 40° (N)	204.6 - 258	238.0
RETURN ANGLE	12° max.	9°

REMARKS: None

Dummy S/N 016

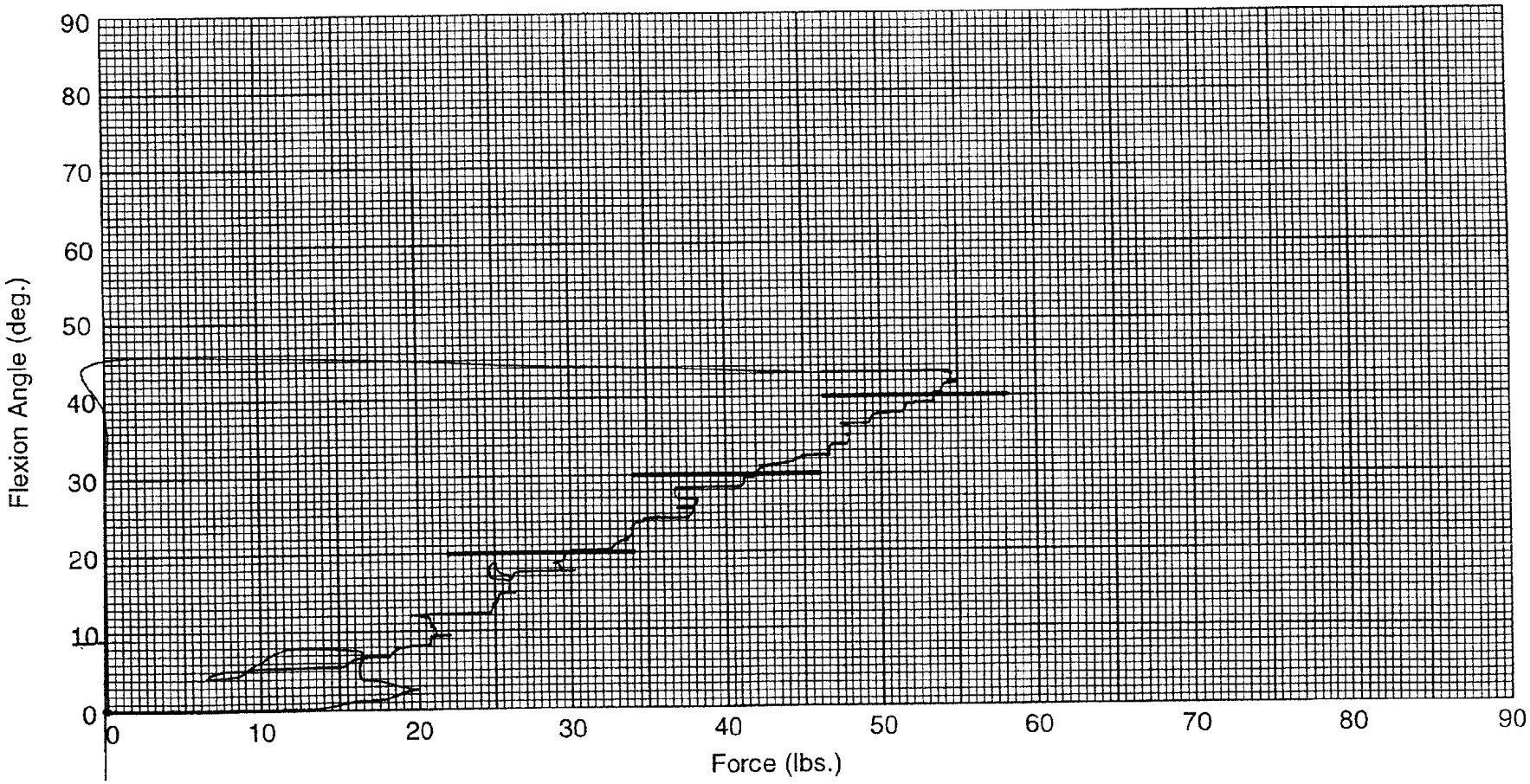
W/A

Date 3-27-2000

Performed By

Temp. 70°

Humidity 31%



Hybrid II Lumbar Spine Flexion Test

PRE-TEST DUMMY INSPECTION LIST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 1
Date: March 27, 2000 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 NO.: 268

CONFIGURED FOR LEFT SIDE IMPACT

CALIBRATION TEST RESULTS SUMMARY
PRE-TEST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 1
Date: March 28, 2000 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.
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 Serial No.: 268 Sequential Test Number: 1
Date: March 28, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	899
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	236
KH- Knee Pivot from Back Line (mm)	511 - 526	518
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	376

REMARKS: None

THORACIC SHOCK ABSORBER TESTS
PRE-TEST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 5
Date: January 21, 2000 Laboratory Technician: B. Swiecicki

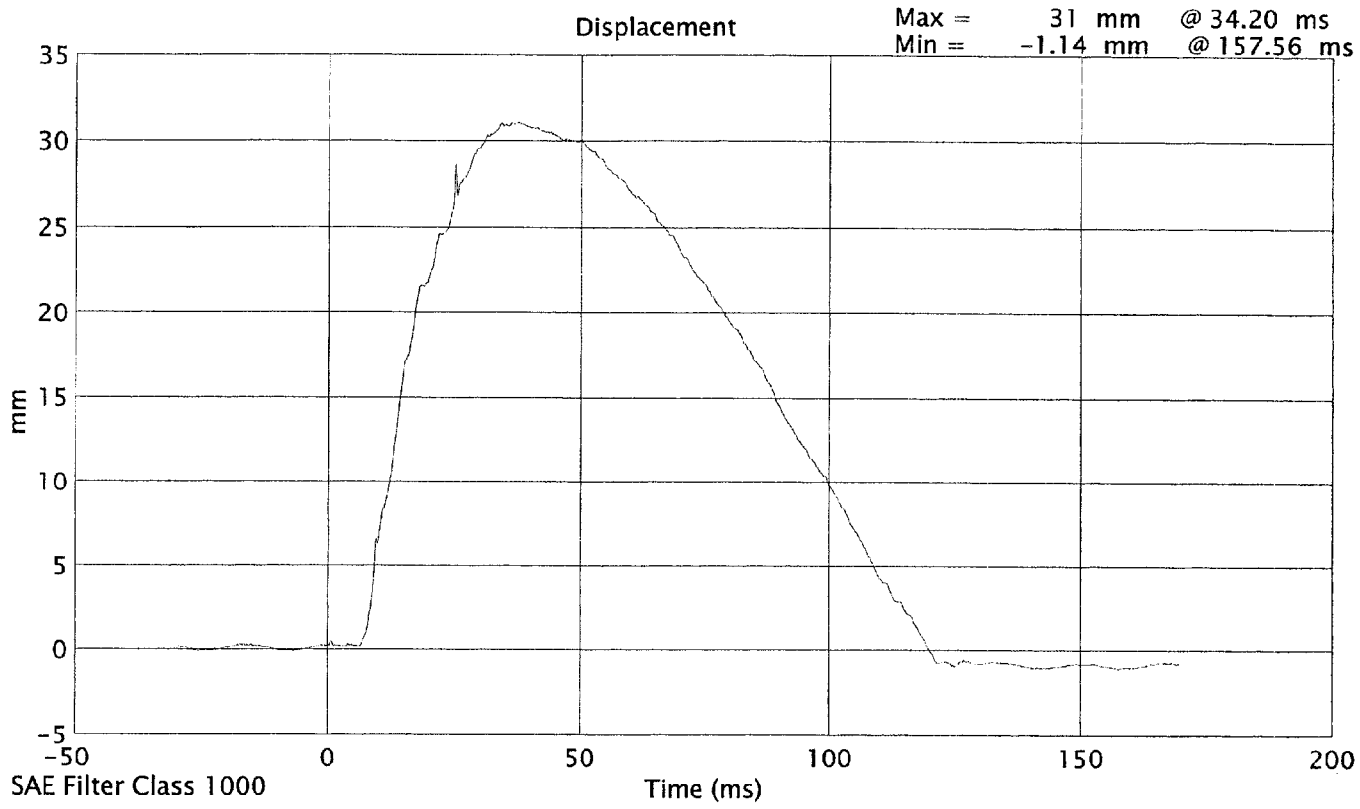
DAMPER IDENTIFICATION: 268

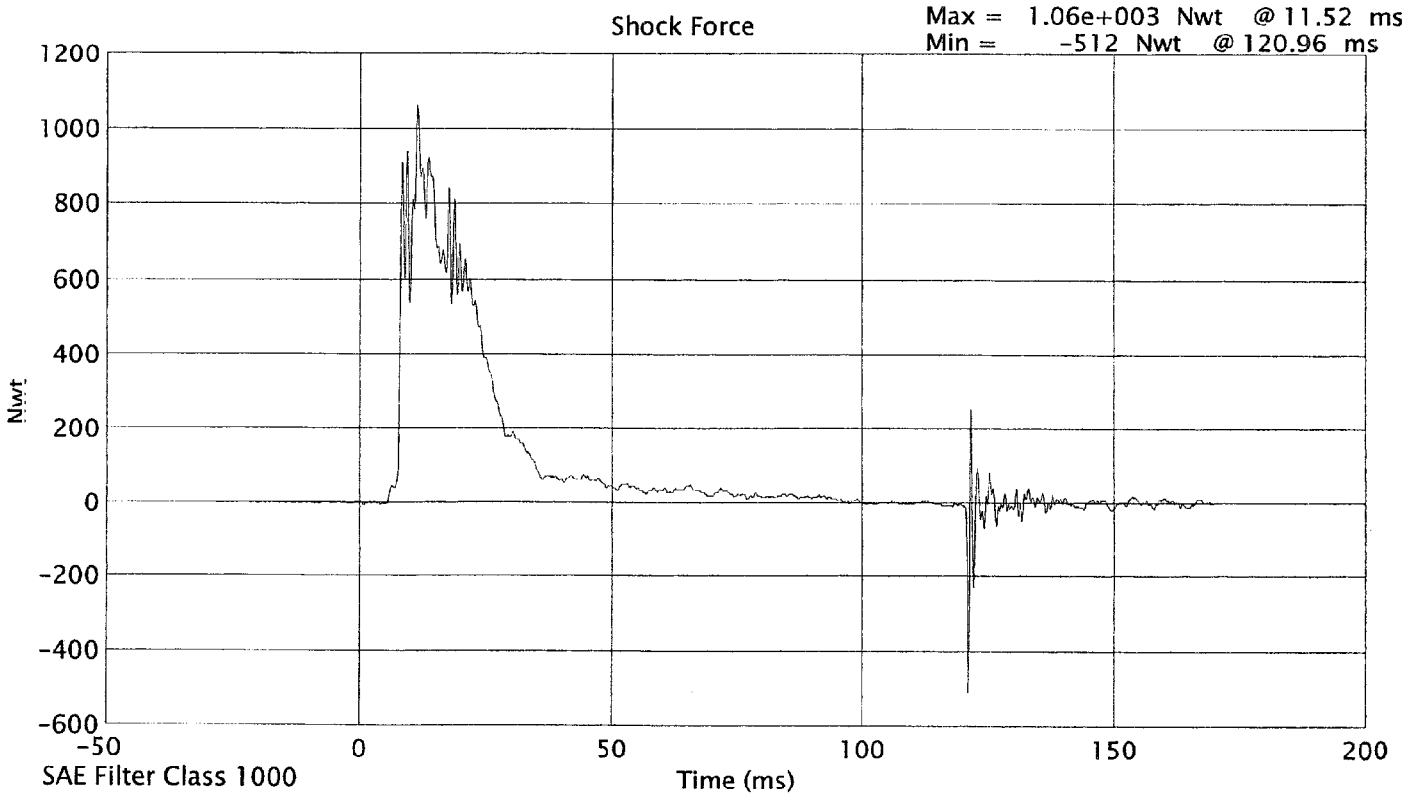
TEST PARAMETER		SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)		18.9 - 25.5	21.7
RELATIVE HUMIDITY (%)		10 - 70	30
VELOCITY 3.05 m/s	FORCE (N)	836 - 1125	1063.0
	DISPLACEMENT (mm)	30 - 35	31.0
VELOCITY 4.27 m/s	FORCE (N)	1730 - 2099	2047.1
	DISPLACEMENT (mm)	32 - 37	34.3
VELOCITY 6.10 m/s	FORCE (N)	3741 - 4448	3898.8
	DISPLACEMENT (mm)	33 - 40	37.2

DAMPER SETTING: 5

REMARKS: None

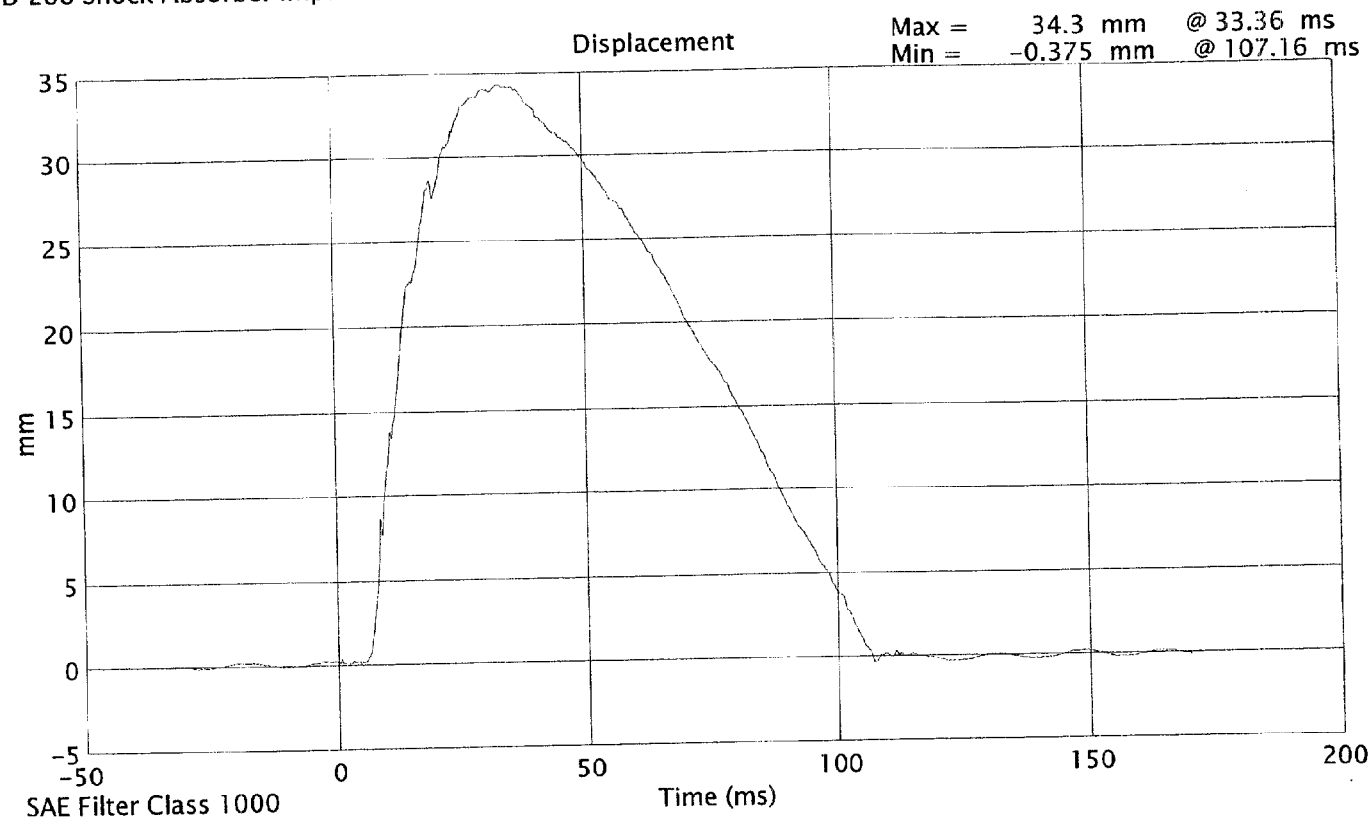
SID 268 Shock Absorber Impact Test @ 3.048 m/s

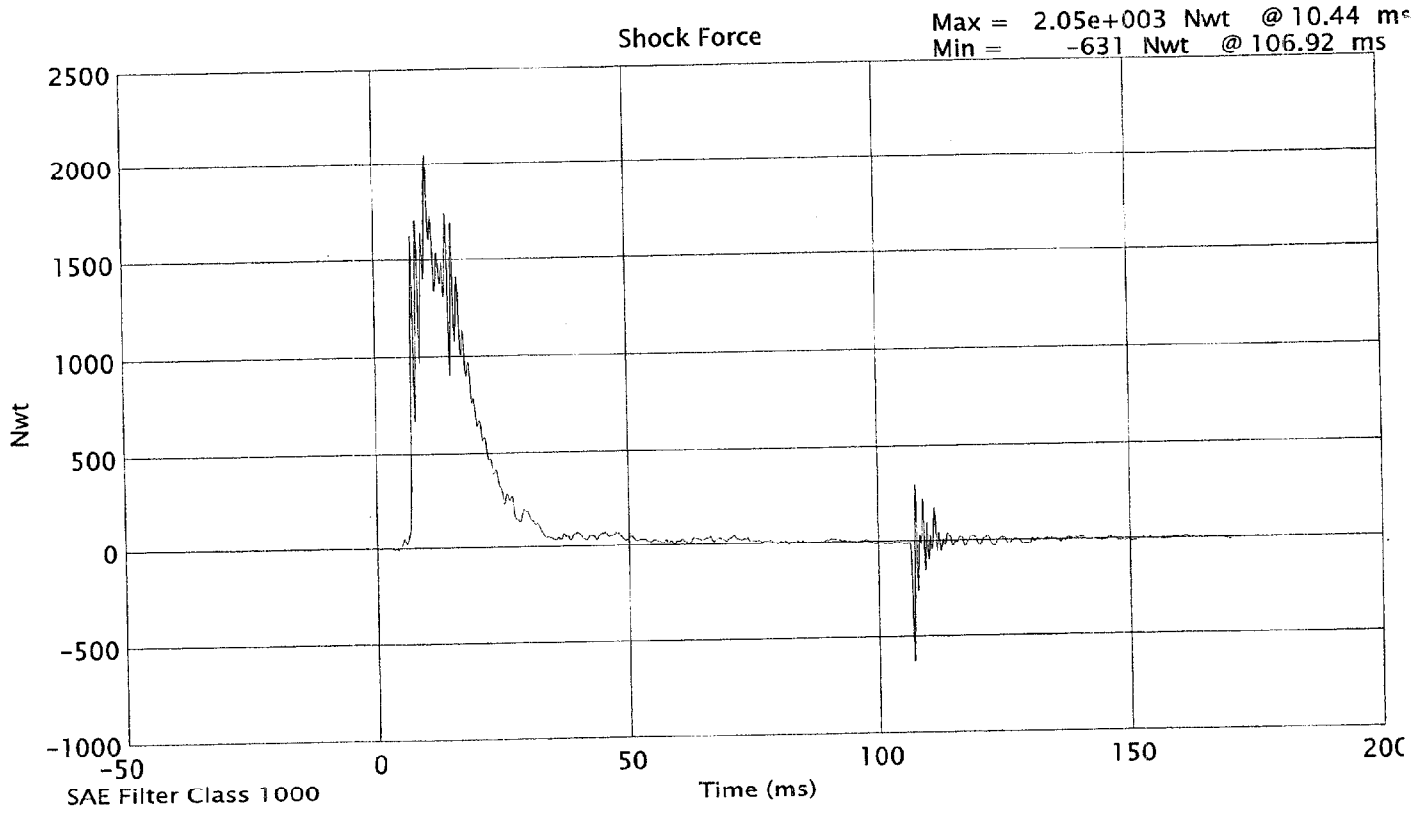




8502-16

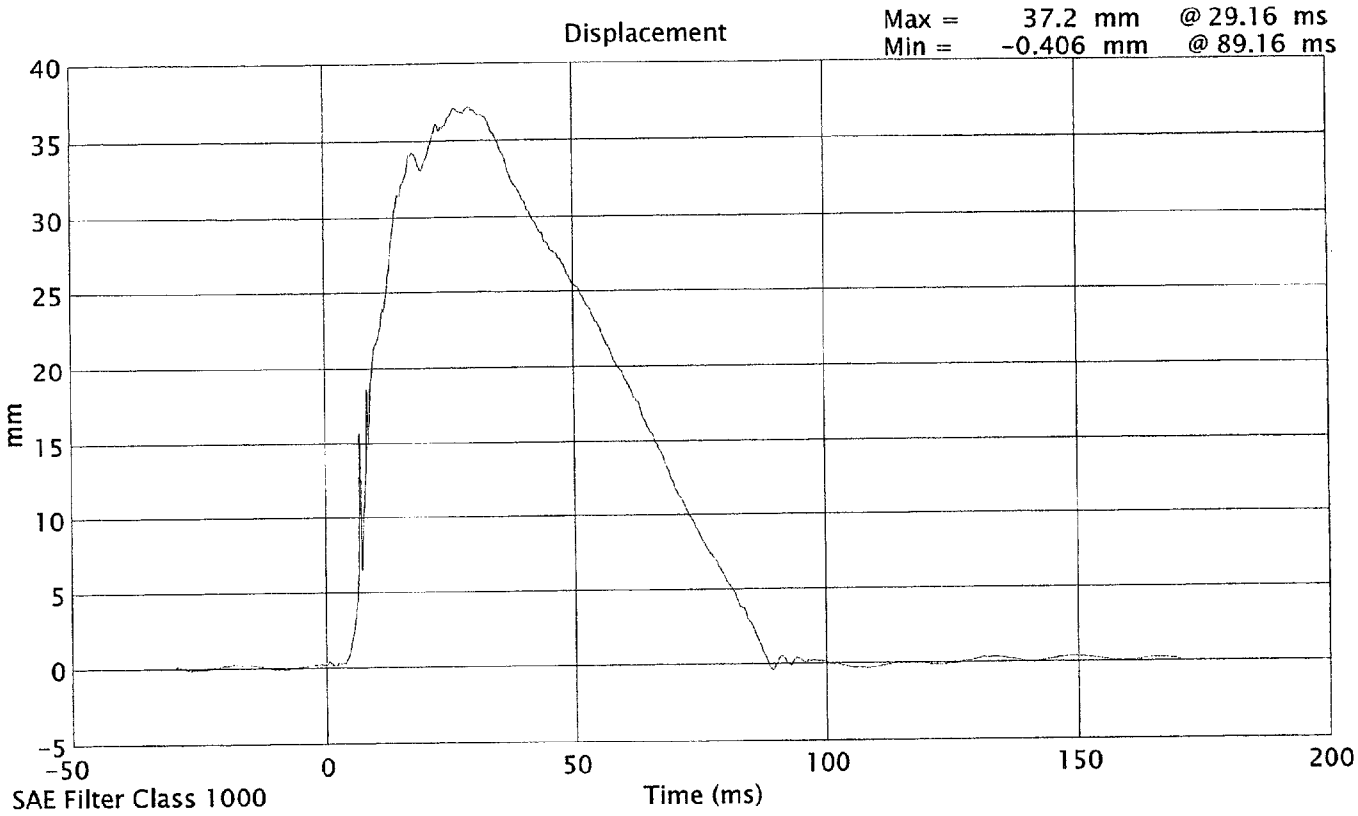
SID 268 Shock Absorber Impact Test @ 4.2672 m/s

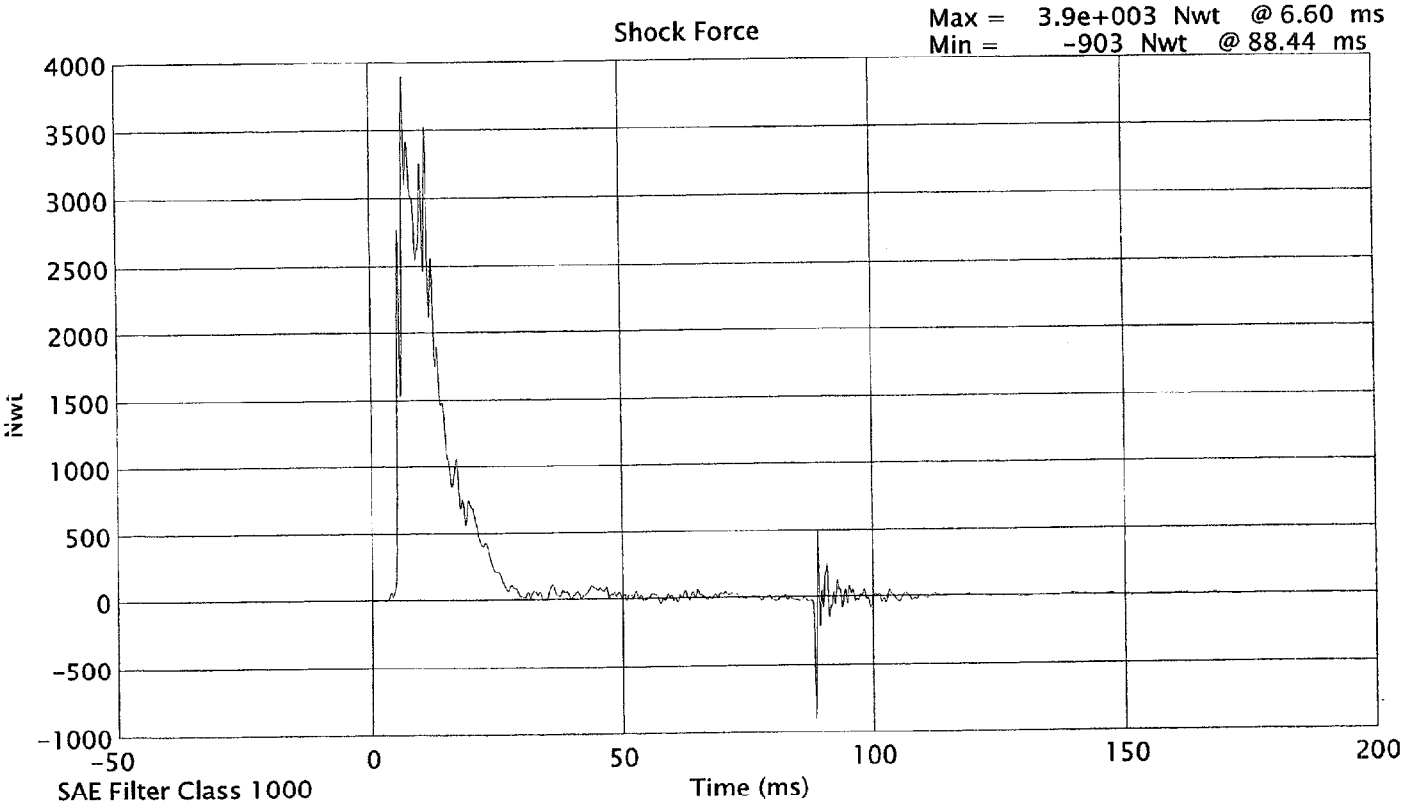




8502-16

SID 268 Shock Absorber Impact Test @ 6.096 m/s





8502-16

LATERAL THORAX IMPACT TEST
PRE-TEST

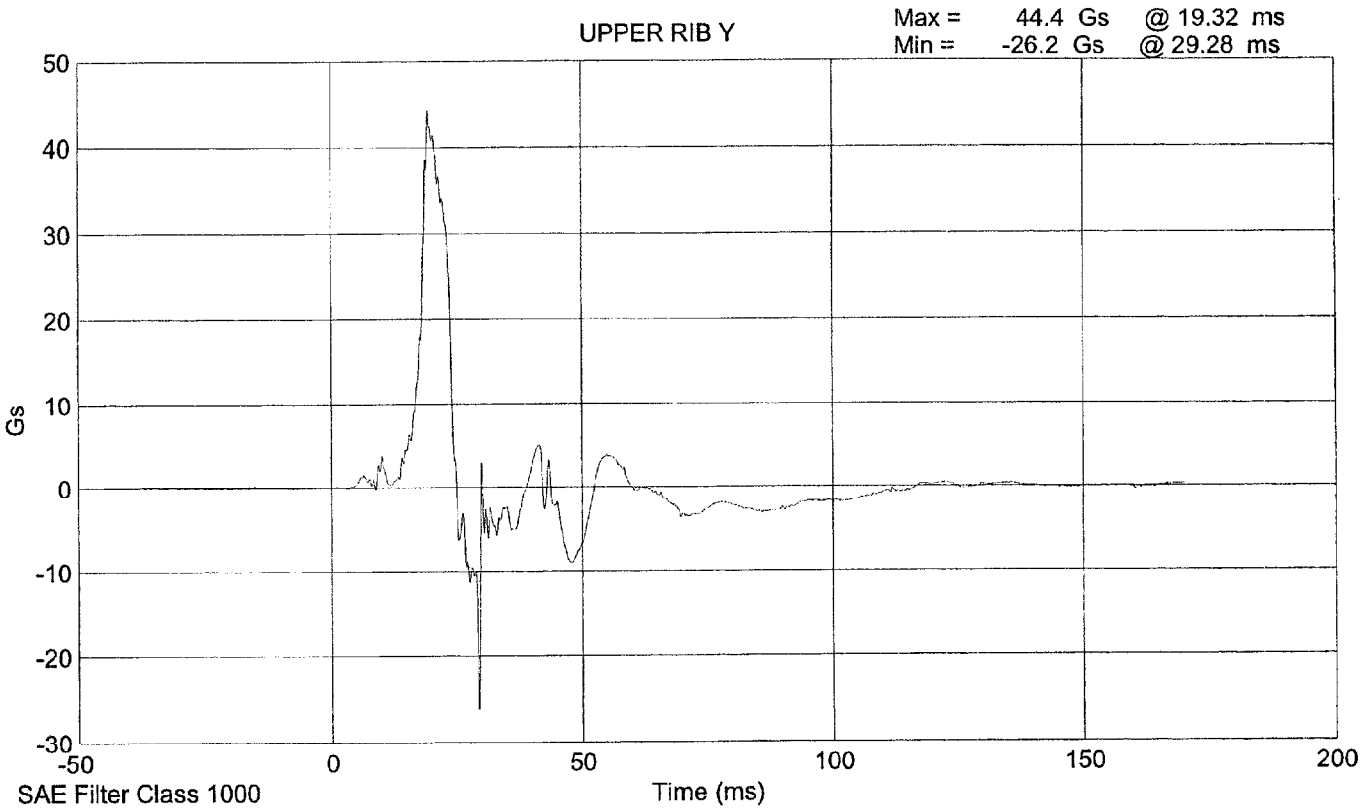
CONFIGURED FOR LEFT SIDE IMPACT

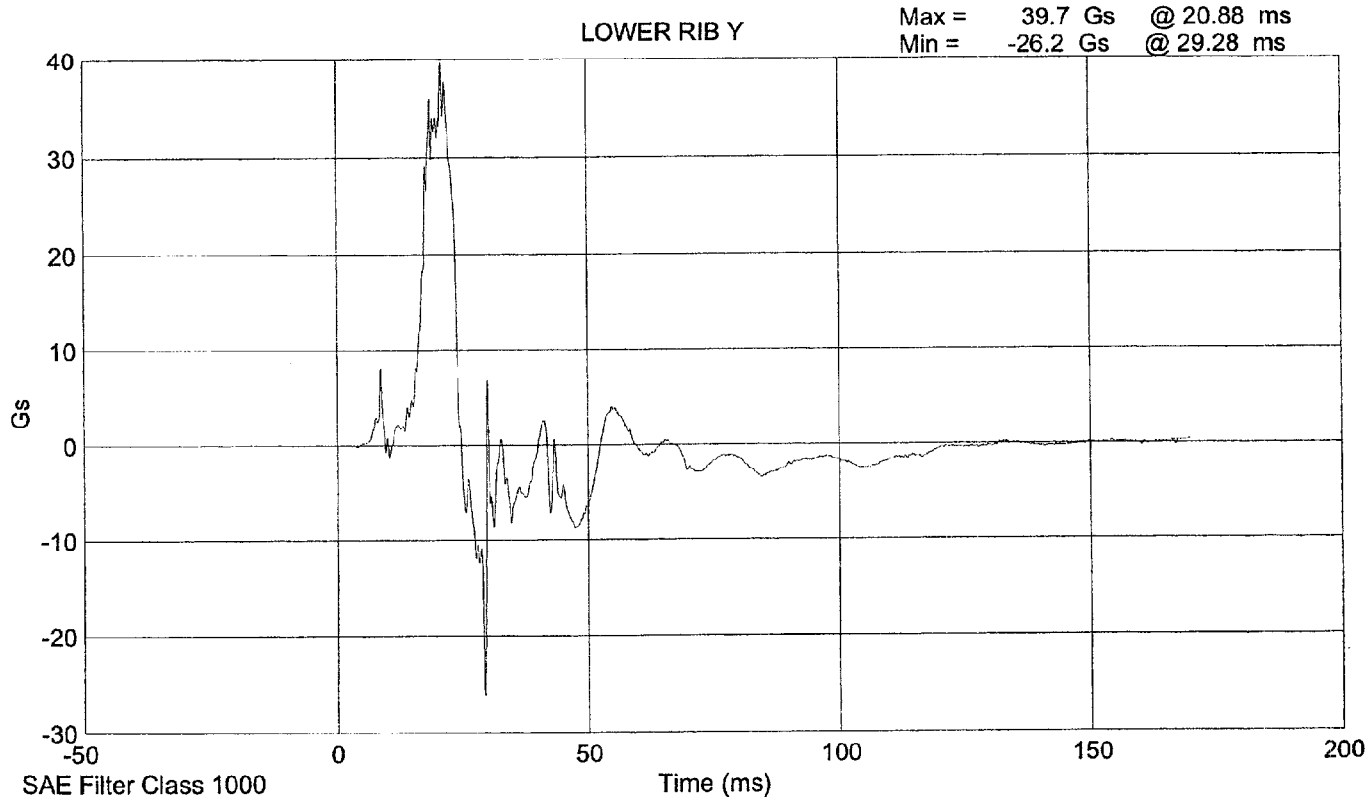
SID Serial No.: 268 Sequential Test Number: 1
Date: March 27, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE. HUMIDITY (%)	10 - 70	31
PROBE SPEED (m/s)	4.27 - 4.33	4.28
UPPER RIB (g's)	37 - 46	41.3
LOWER RIB (g's)	37 - 46	37.5
LOWER SPINE (g's)	15 - 22	19.8

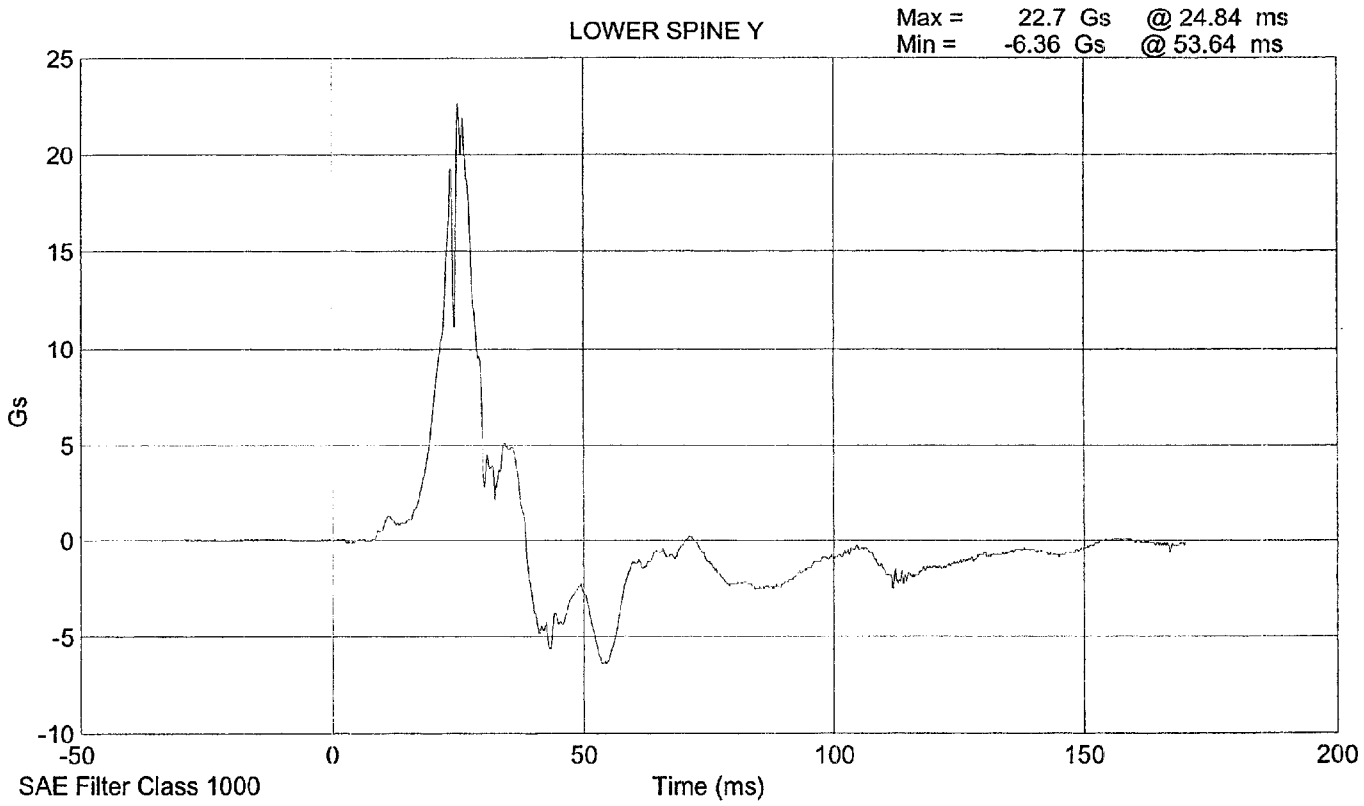
REMARKS: None

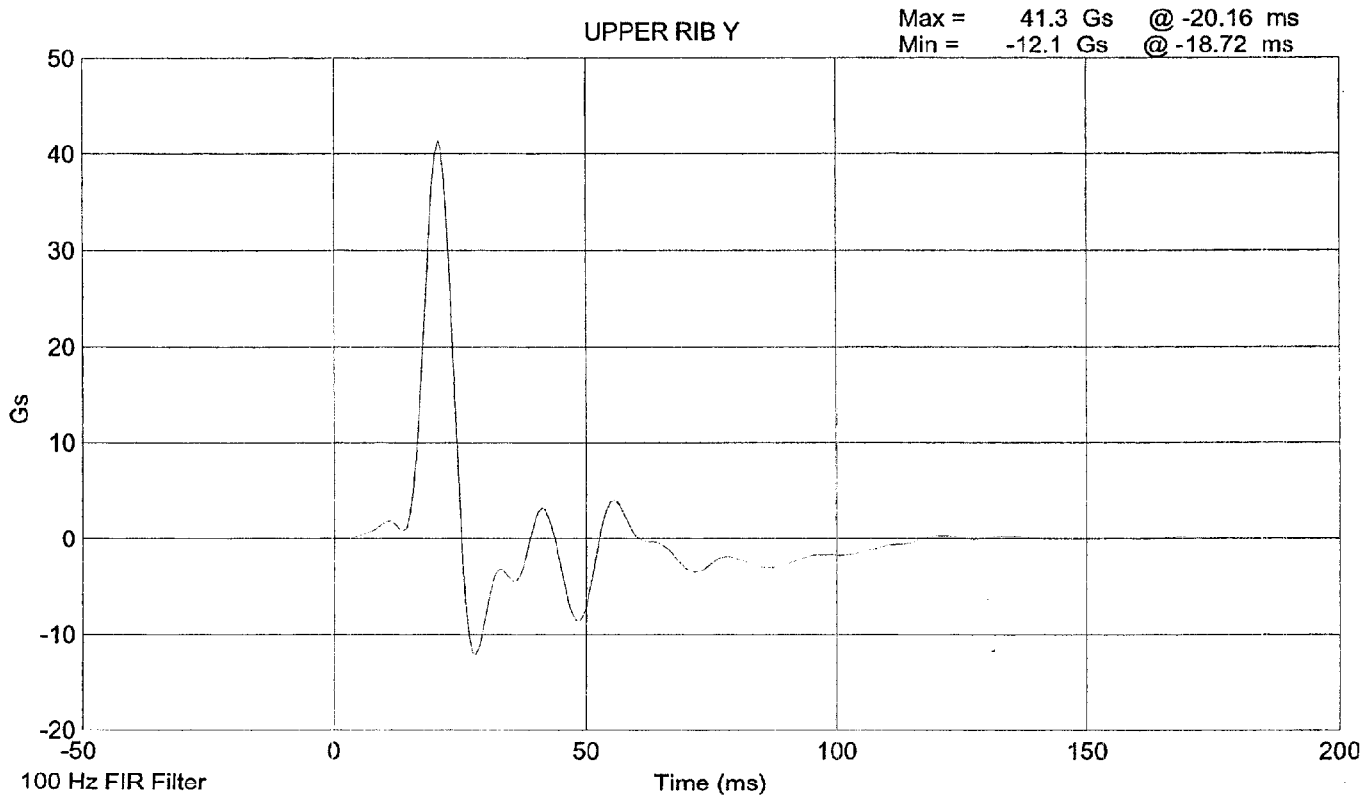
SID 268 Thorax Impact Test @ 4.2794 m/s



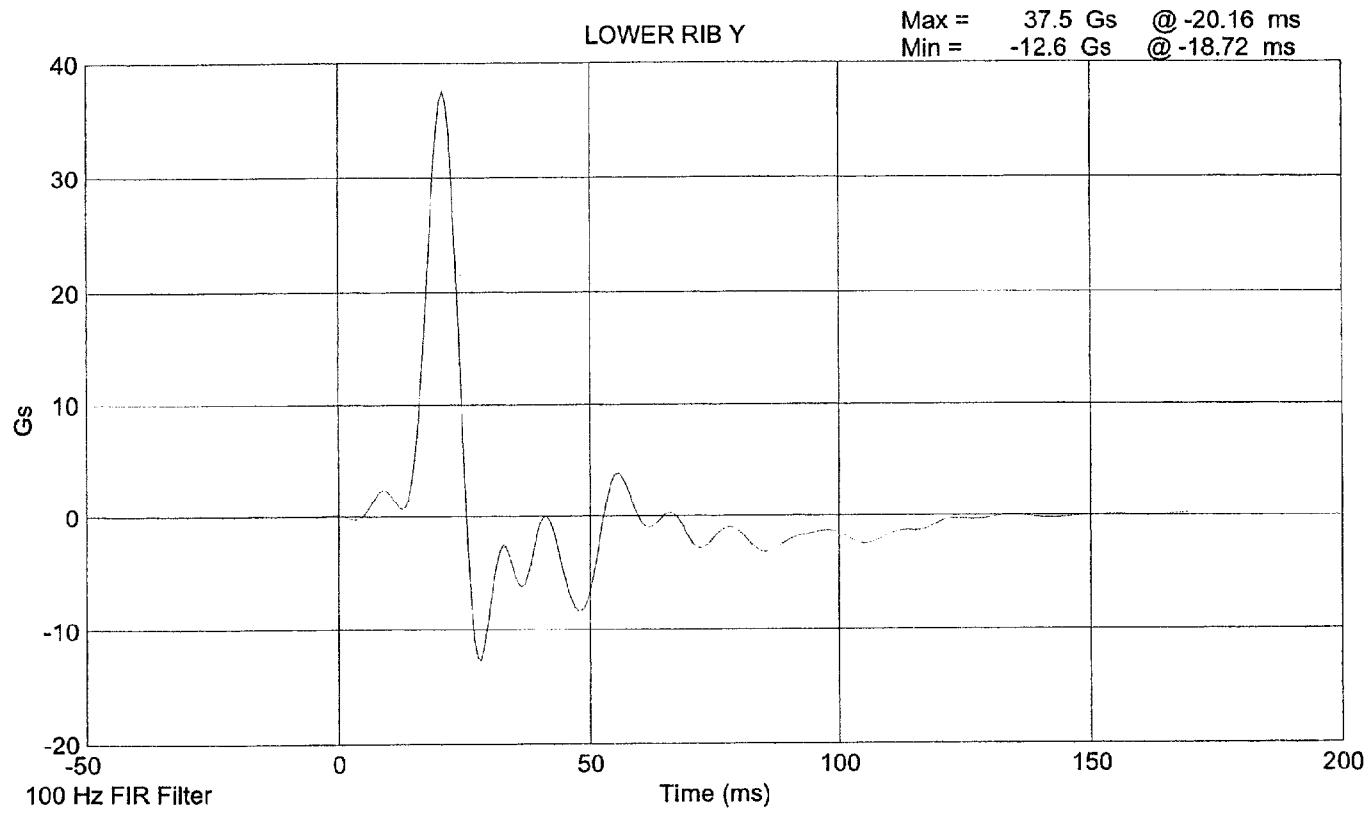


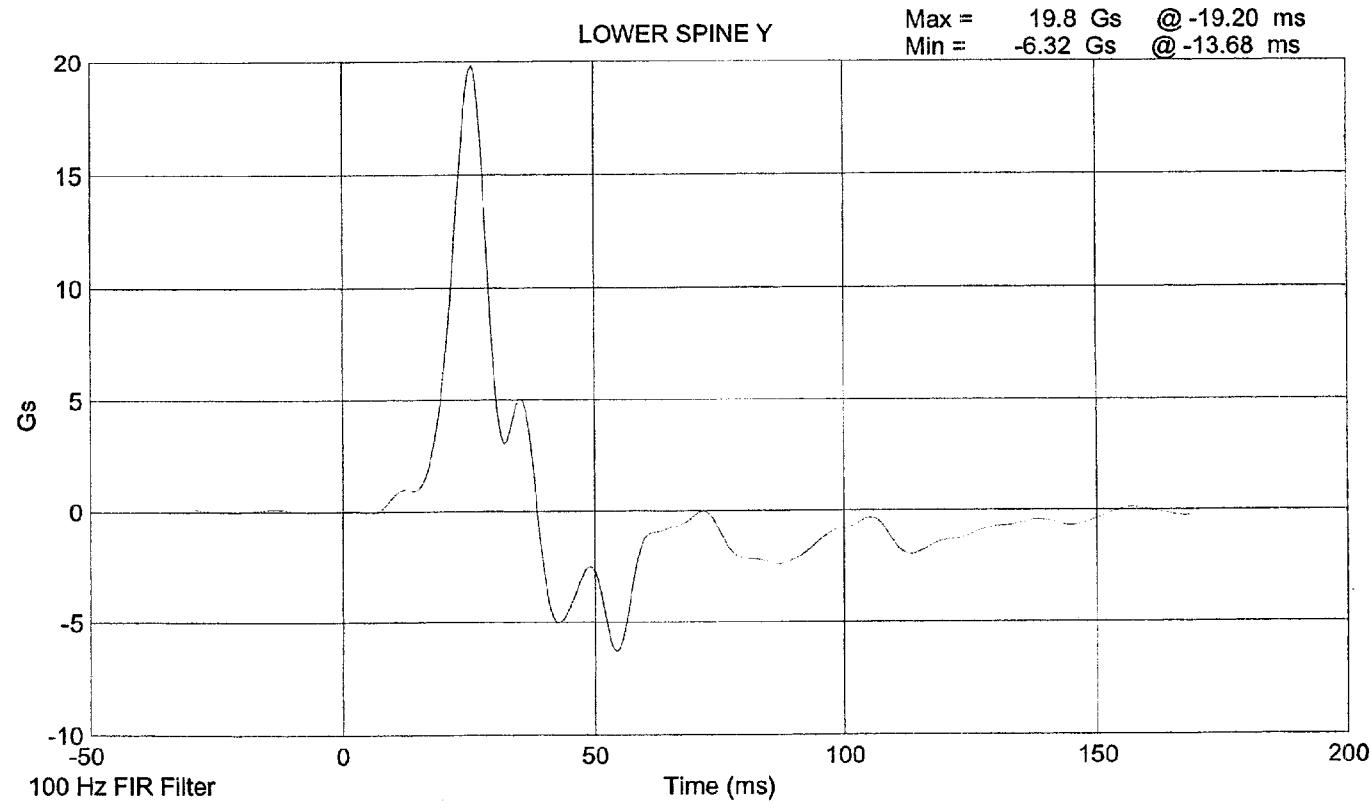
SID 268 Thorax Impact Test @ 4.2794 m/s





SID 268 Thorax Impact Test @ 4.2794 m/s





LATERAL PELVIS IMPACT TEST
PRE-TEST

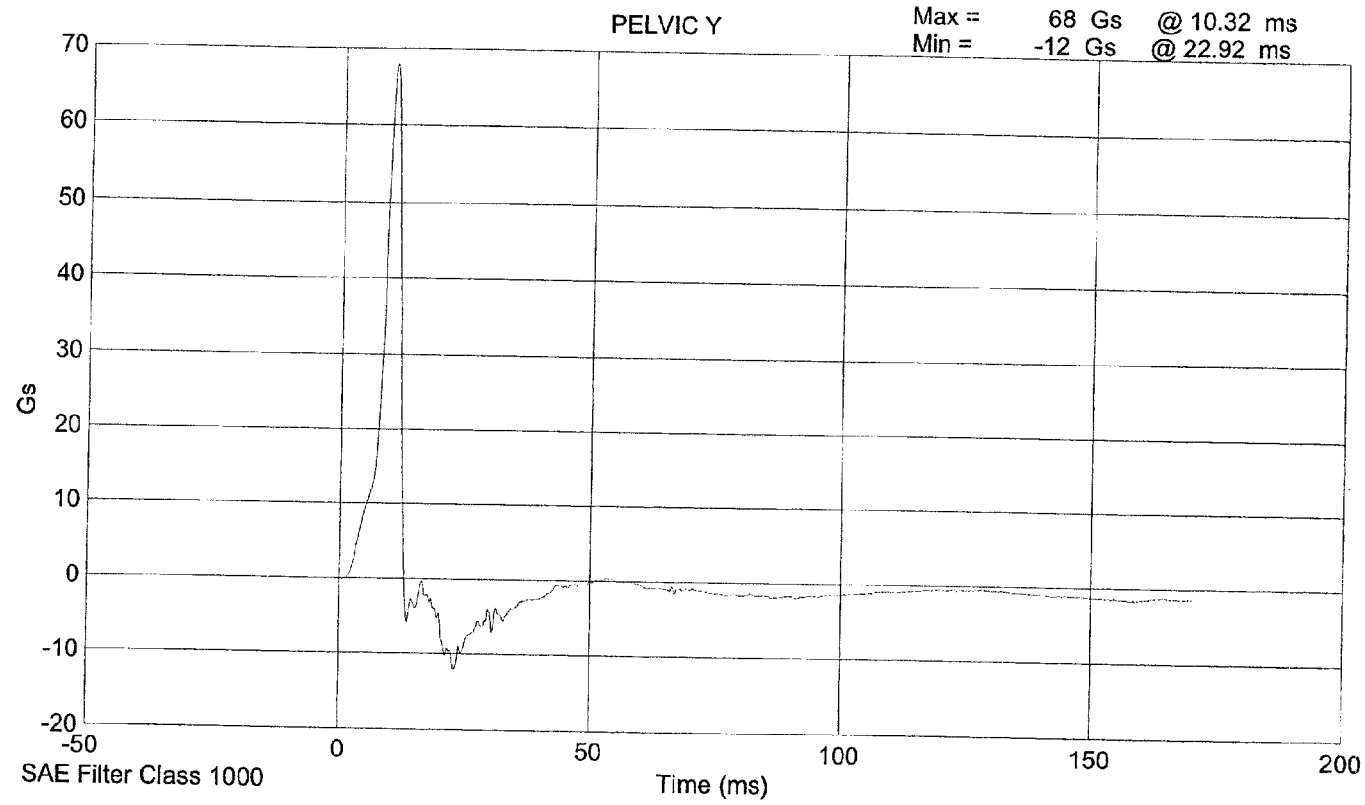
CONFIGURED FOR LEFT SIDE IMPACT

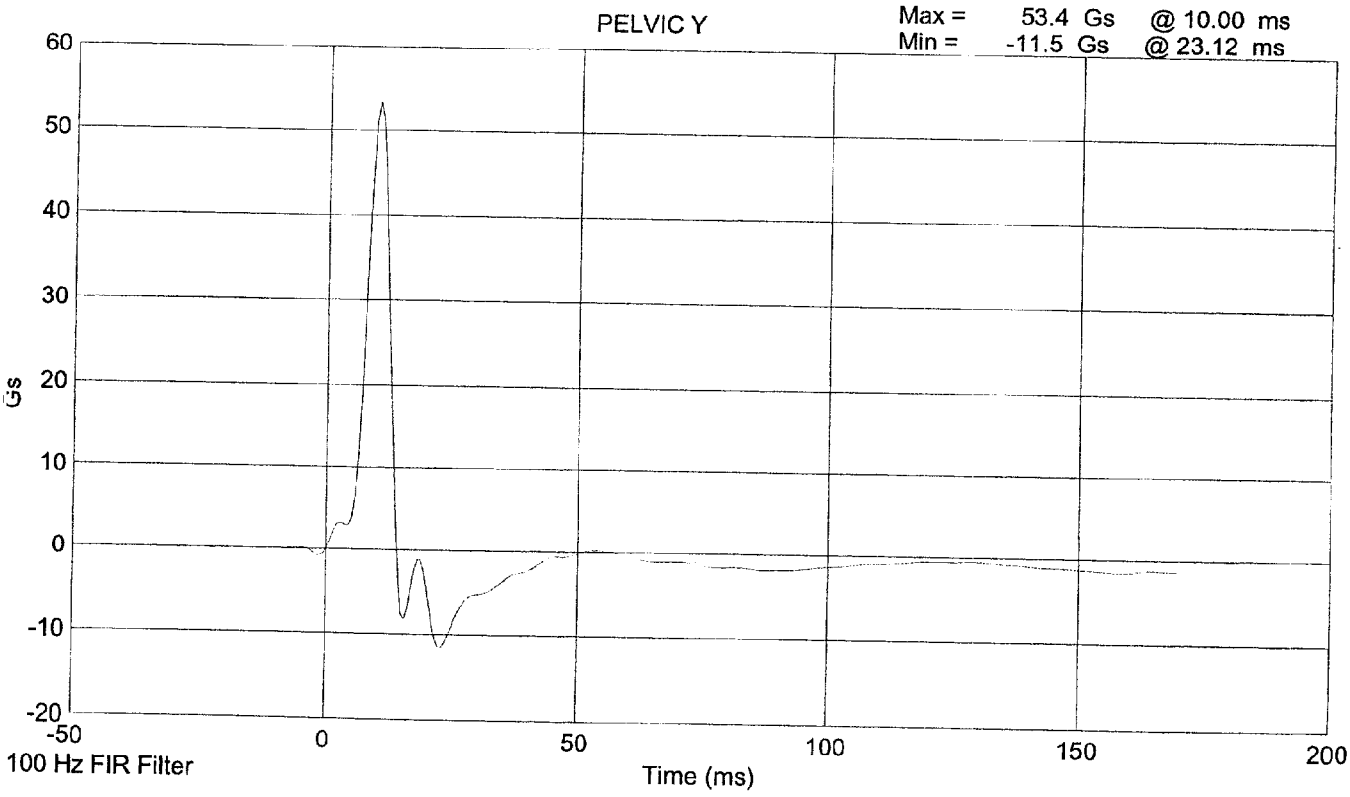
SID Serial No.: 268 Sequential Test Number: 1
Date: March 28, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE. HUMIDITY (%)	10 - 70	31
PROBE SPEED (m/s)	4.27 - 4.33	4.28
PELVIS ACCELERATION (g's)	40 - 60	53.4

REMARKS: None

SID 268 Pelvic Impact Test @ 4.2824 m/s





ABDOMINAL COMPRESSION TEST
PRE-TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 1
Date: March 27, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.7
RELATIVE HUMIDITY (%)	10 - 70	31
FORCE @ 13 mm (N)	104 - 162	129
FORCE @ 19 mm (N)	163 - 221	191
FORCE @ 25 mm (N)	222 - 280	259
FORCE @ 33 mm (N)	325 - 391	349

REMARKS: None

Dummy S/N 268

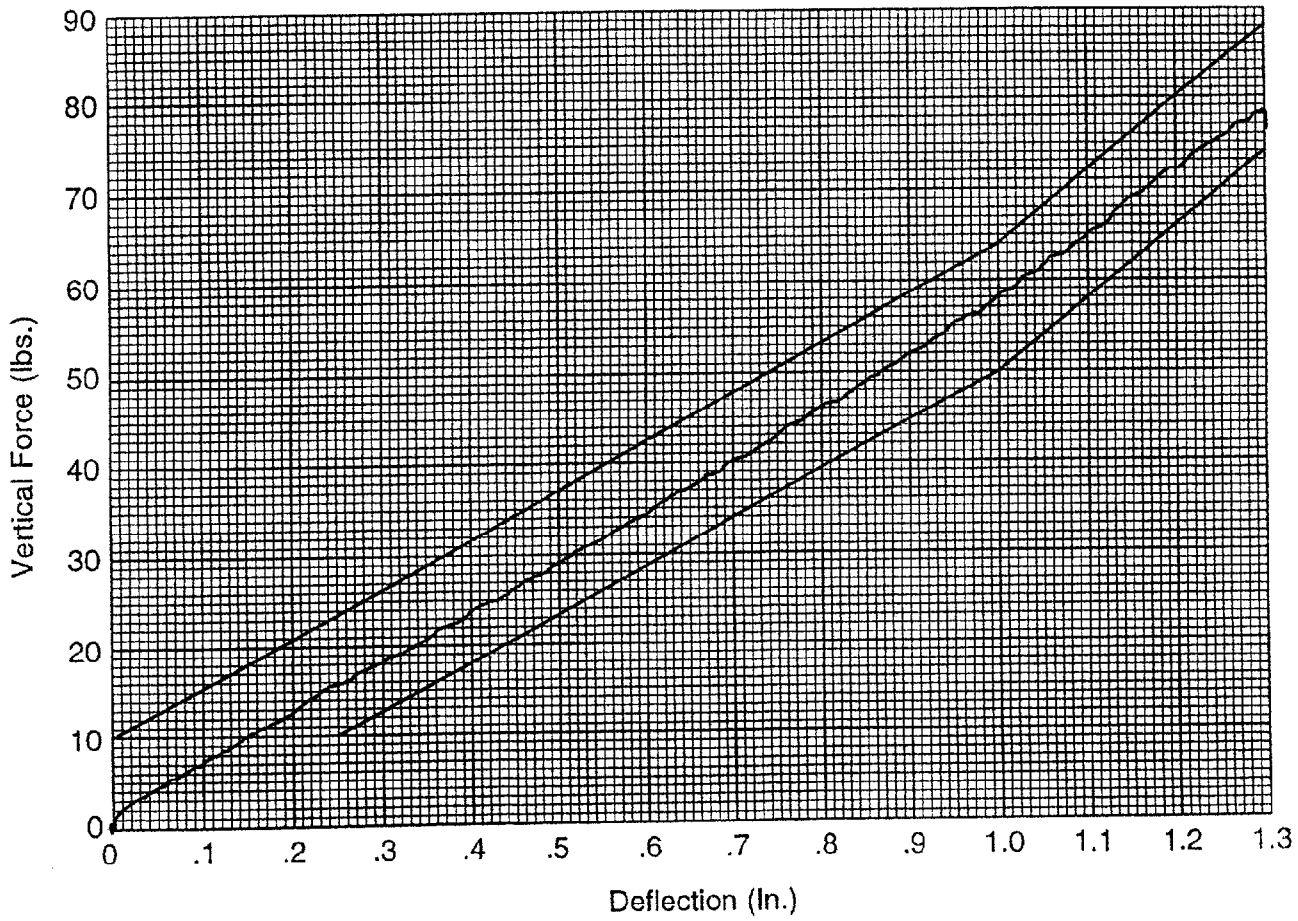
W/A

Date 3-27-2006

Performed By BS

Temp. 71°

Humidity 31%



Hybrid II
Abdomen Static Press

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

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 1
Date: March 27, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.6
RELATIVE HUMIDITY (%)	10 - 70	30
FORCE @ 0° (N)	0 - 26.7	0
FORCE @ 20° (N)	97.8 - 151.2	126.8
FORCE @ 30° (N)	151.2 - 204.6	185.9
FORCE @ 40° (N)	204.6 - 258	234.9
RETURN ANGLE	12° max.	8.5°

REMARKS: None

Dummy S/N 268

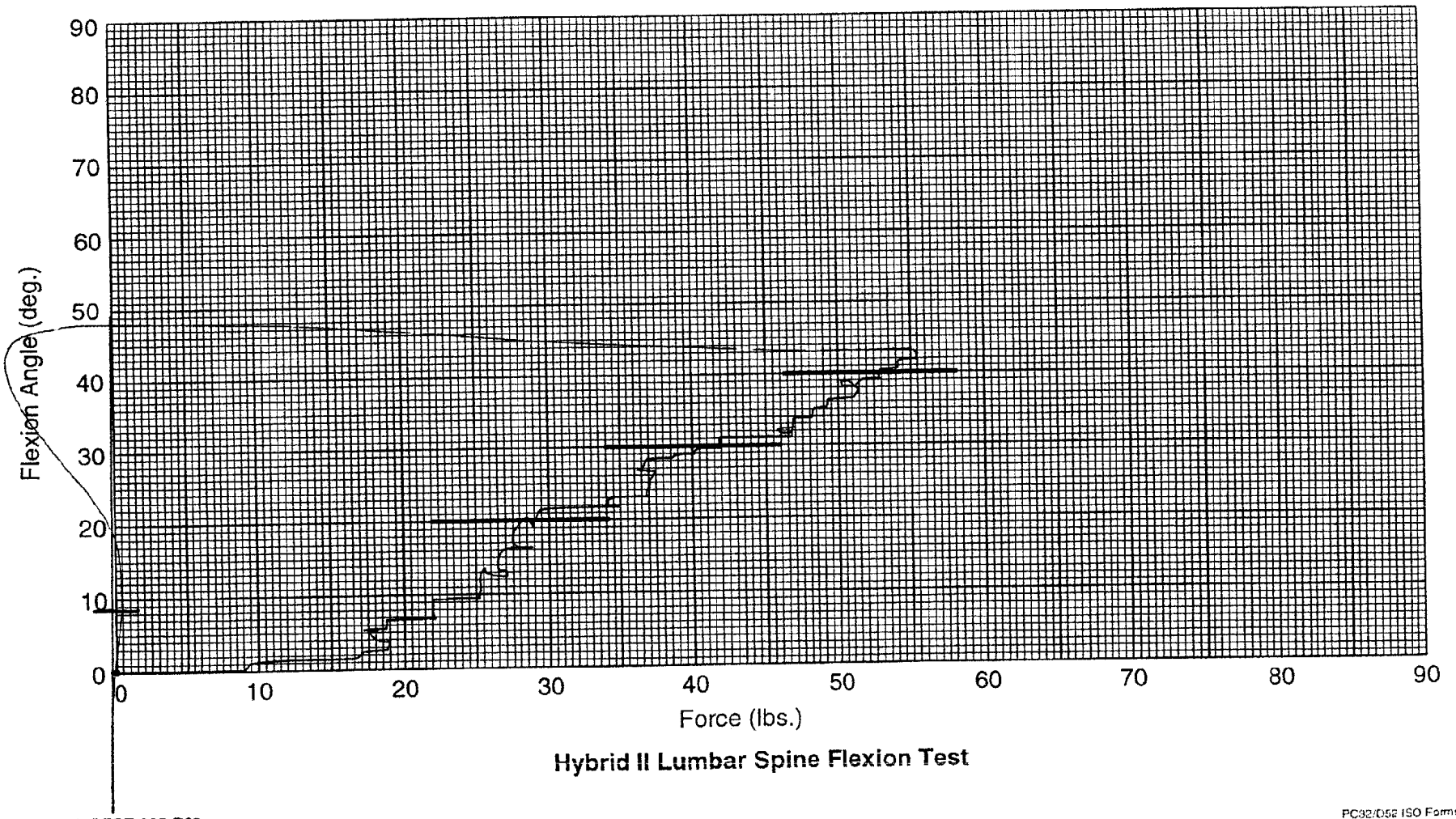
W/A

Date 3-27-2000

Performed By

Temp. 71°

Humidity 30%



Hybrid II Lumbar Spine Flexion Test

8502-15

FM-052-CERT-005-R00

PC32/052 ISO Forms

PRE-TEST DUMMY INSPECTION LIST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 1
Date: March 28, 2000 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 NO.: 016

CONFIGURED FOR LEFT SIDE IMPACT

CALIBRATION TEST RESULTS SUMMARY
POST TEST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 1
Date: April 26, 2000 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.
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 Serial No.: 016 Sequential Test Number: 1
Date: April 26, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	902
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	239
KH- Knee Pivot from Back Line (mm)	511 - 526	526
KV- Knee Pivot to Floor (mm)	490 - 505	494
HW- Hip Width (mm)	356 - 391	364

REMARKS: None

LATERAL THORAX IMPACT TEST
POST TEST

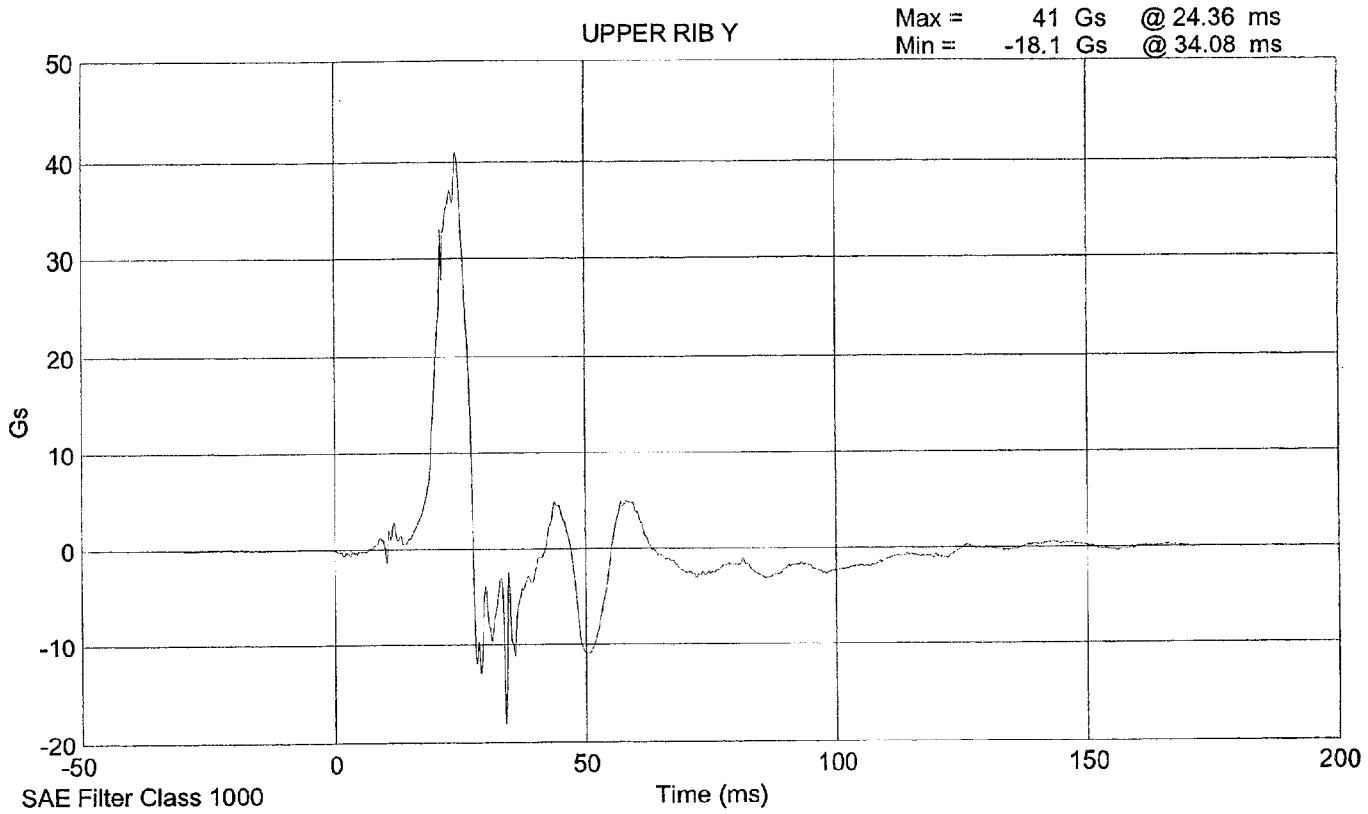
CONFIGURED FOR LEFT SIDE IMPACT

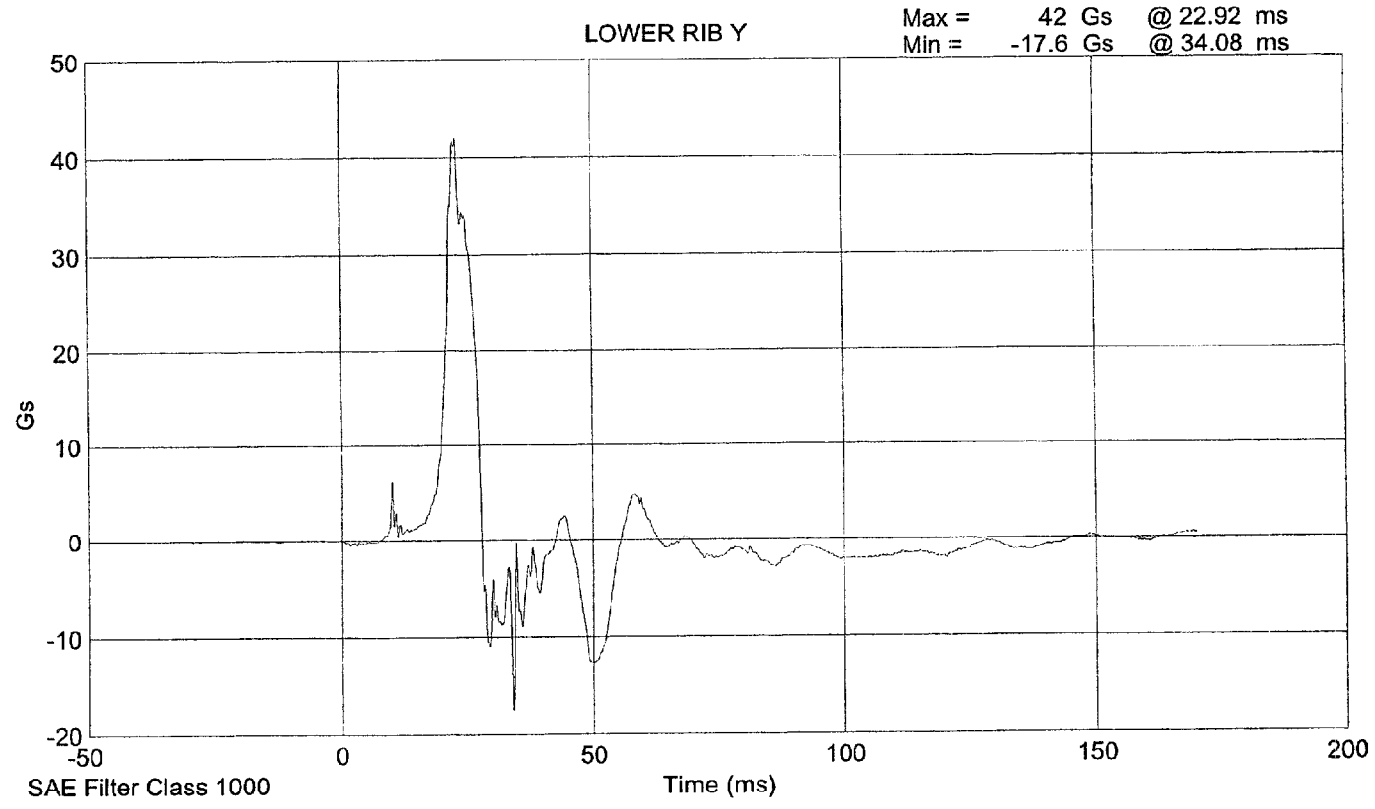
SID Serial No.: 016 Sequential Test Number: 1
Date: April 20, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE. HUMIDITY (%)	10 - 70	30
PROBE SPEED (m/s)	4.27 - 4.33	4.31
UPPER RIB (g's)	37 - 46	40.1
LOWER RIB (g's)	37 - 46	39.3
LOWER SPINE (g's)	15 - 22	19.6

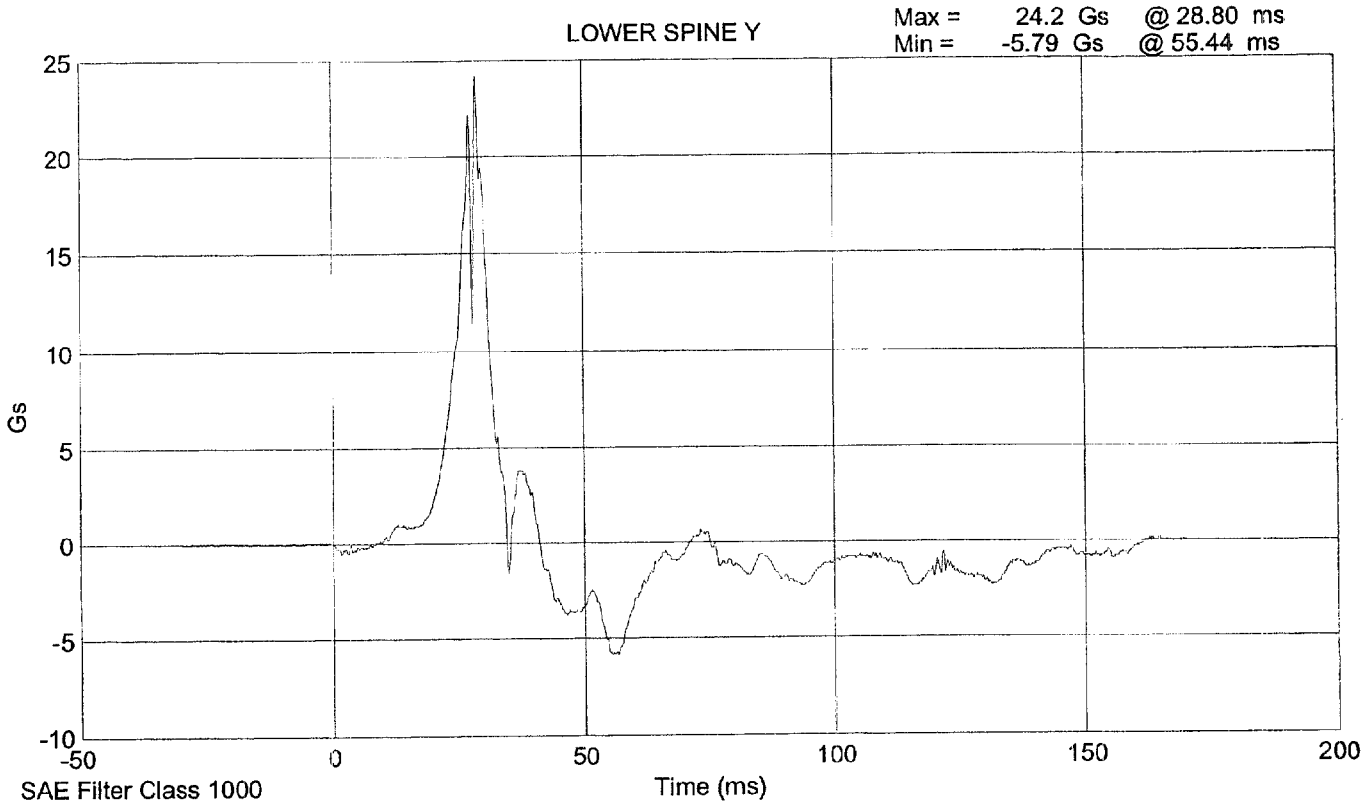
REMARKS: None

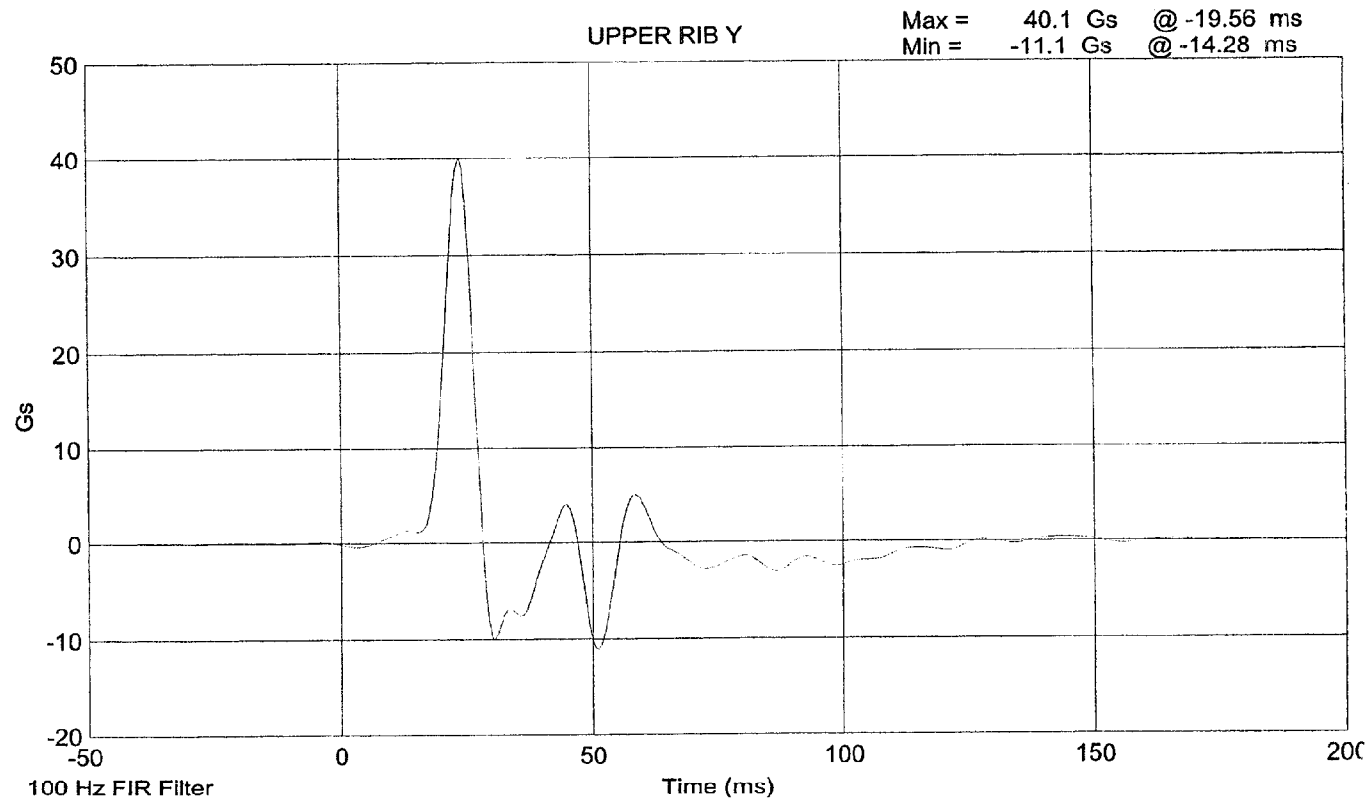
SID 016 Thorax Impact Test @ 4.3068 m/s



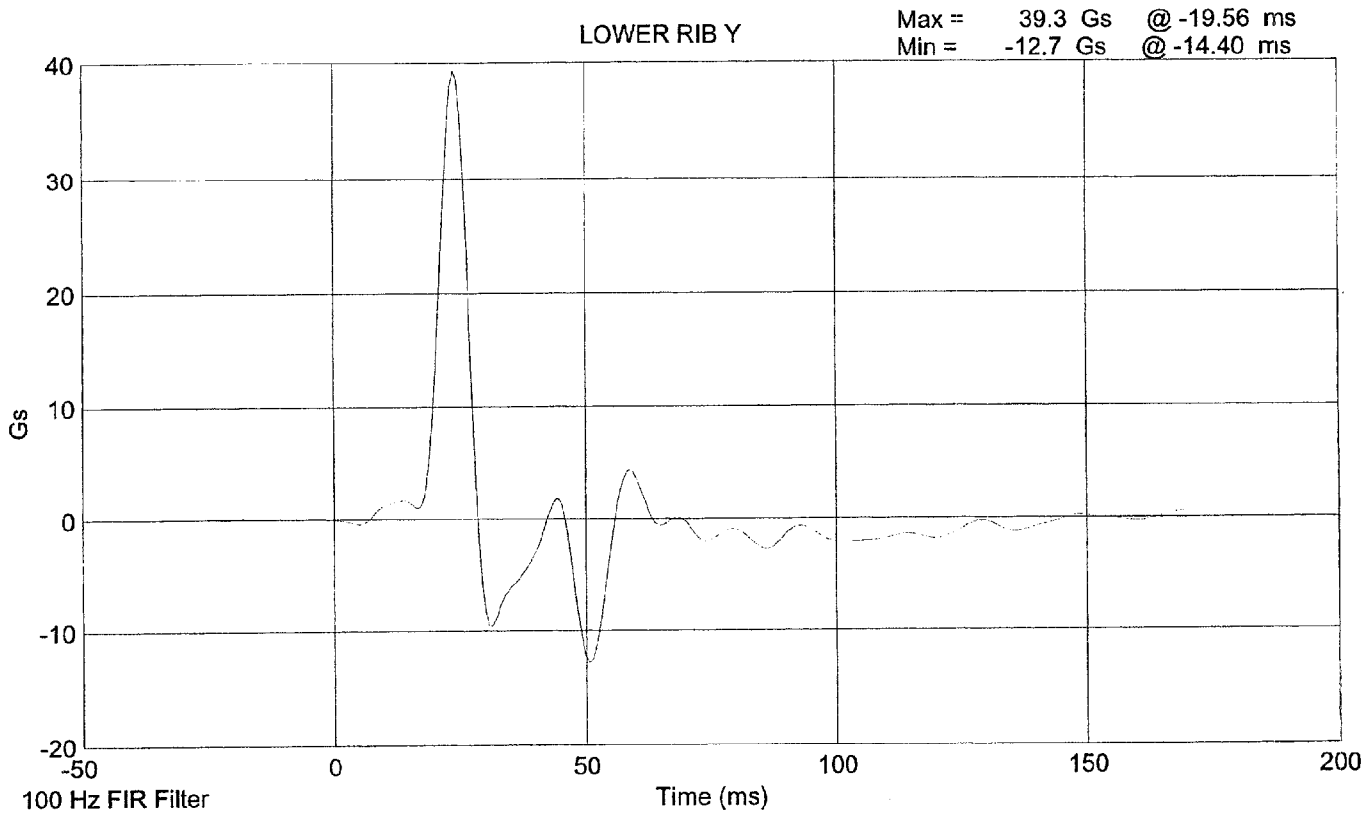


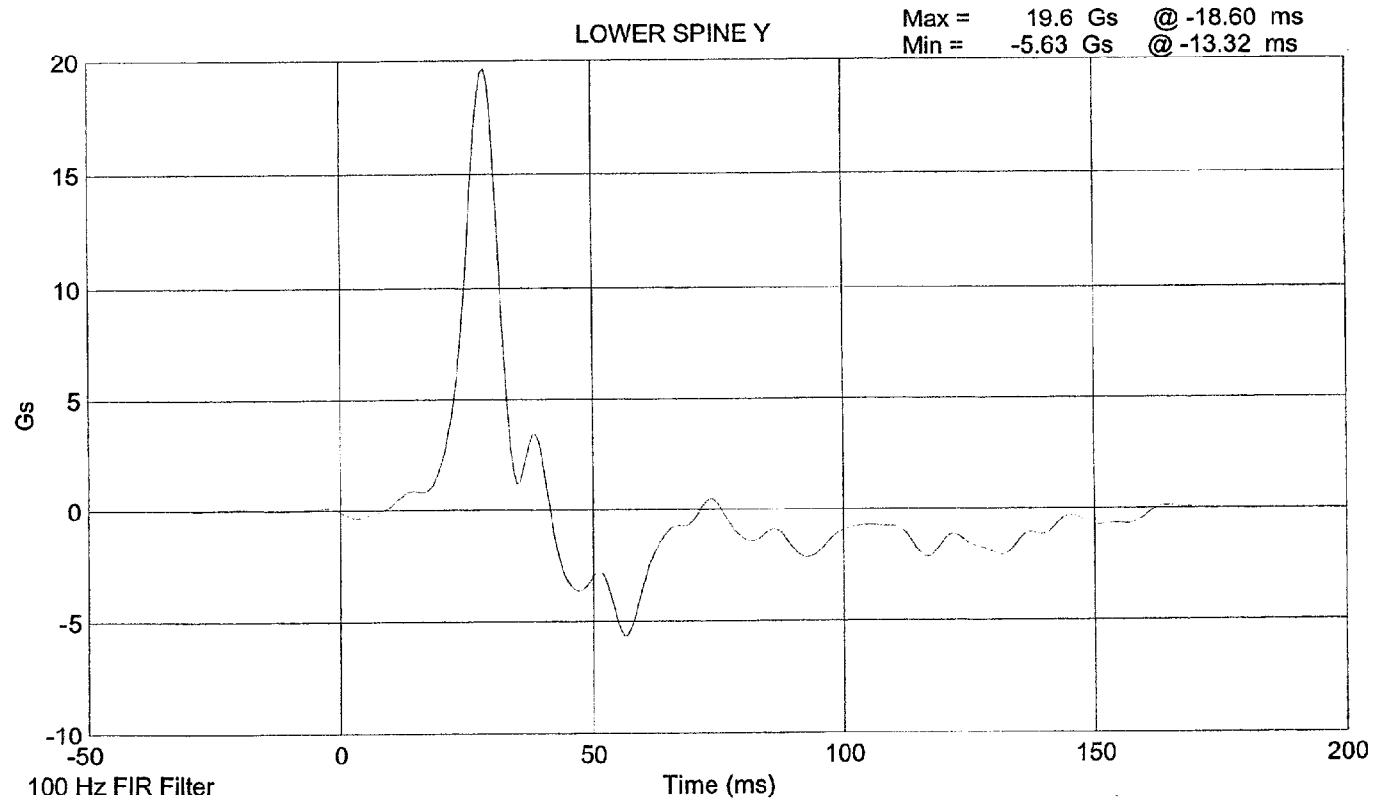
SID 016 Thorax Impact Test @ 4.3068 m/s





SID 016 Thorax Impact Test @ 4.3068 m/s





LATERAL PELVIS IMPACT TEST
POST TEST

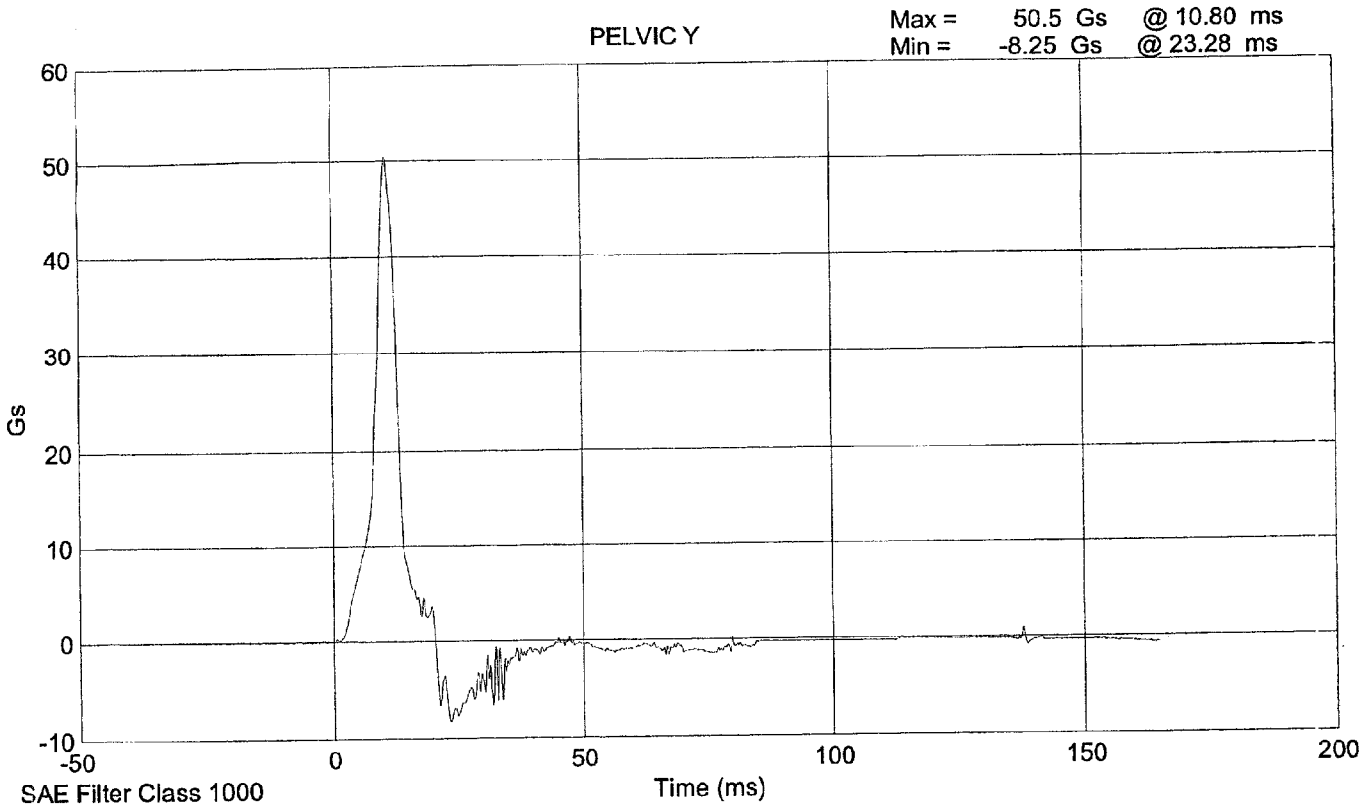
CONFIGURED FOR LEFT SIDE IMPACT

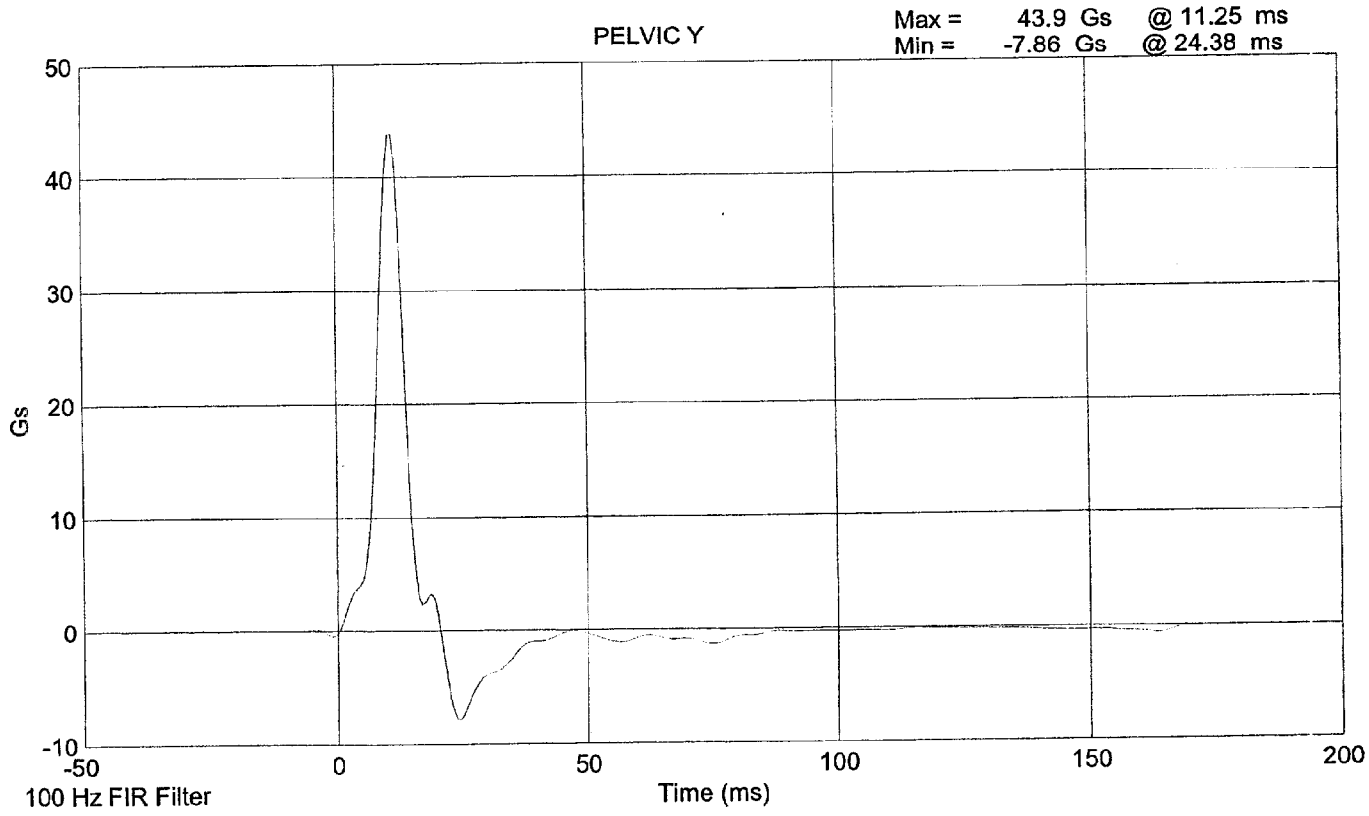
SID Serial No.: 016 Sequential Test Number: 1
Date: April 20, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE. HUMIDITY (%)	10 - 70	30
PROBE SPEED (m/s)	4.27 - 4.33	4.30
PELVIS ACCELERATION (g's)	40 - 60	43.9

REMARKS: None

SID 016 Pelvic Impact Test @ 4.3007 m/s





ABDOMINAL COMPRESSION TEST
POST TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 1
Date: April 21, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.7
RELATIVE HUMIDITY (%)	10 - 70	30
FORCE @ 13 mm (N)	104 - 162	113.9
FORCE @ 19 mm (N)	163 - 221	178.8
FORCE @ 25 mm (N)	222 - 280	258.0
FORCE @ 33 mm (N)	325 - 391	375.9

REMARKS: None

Dummy S/N 016

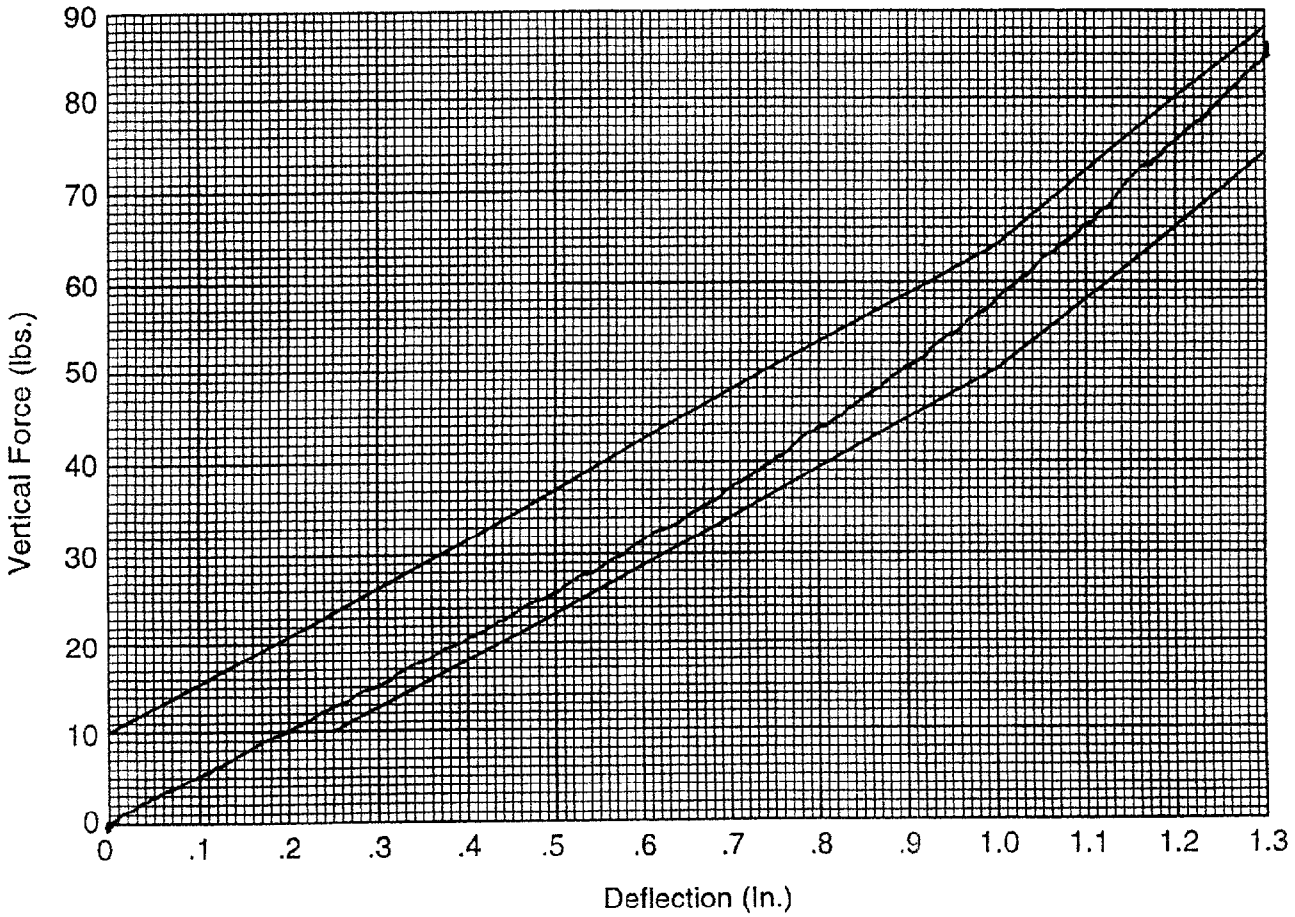
W/A

Date 4-21-2000

Performed By

Temp. 71°

Humidity 30%



Hybrid II
Abdomen Static Press

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

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 1
Date: April 24, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE HUMIDITY (%)	10 - 70	32
FORCE @ 0° (N)	0 - 26.7	0
FORCE @ 20° (N)	97.8 - 151.2	104.1
FORCE @ 30° (N)	151.2 - 204.6	175.3
FORCE @ 40° (N)	204.6 - 258	248.2
RETURN ANGLE	12° max.	8.8°

REMARKS: None

Dummy S/N 016

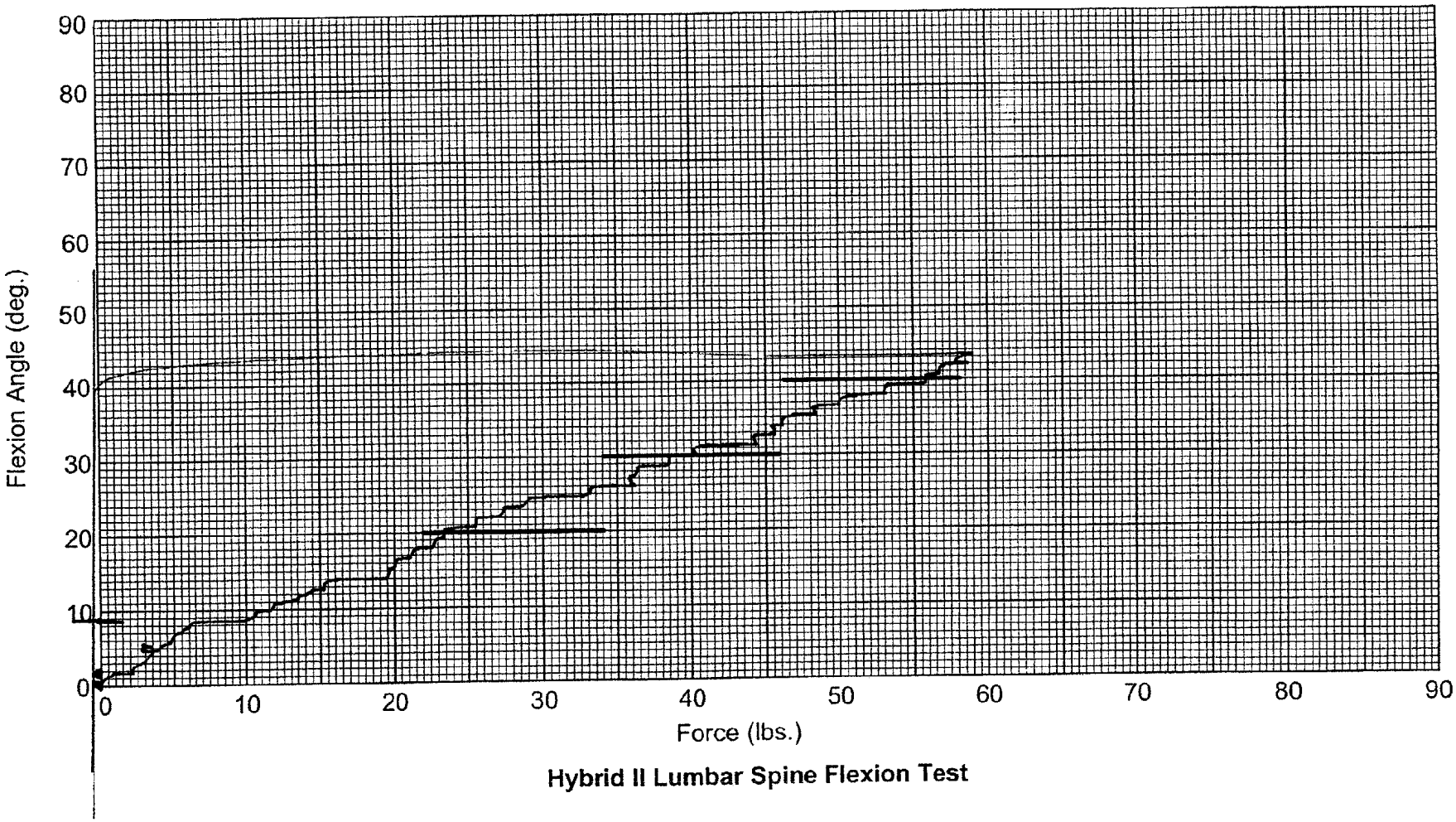
W/A

Date 4-24-2006

Performed By

Temp. 70°

Humidity 32%



Hybrid II Lumbar Spine Flexion Test

POST TEST DUMMY INSPECTION LIST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 016 Sequential Test Number: 1

Date: April 26, 2000 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 NO.: 268

CONFIGURED FOR LEFT SIDE IMPACT

CALIBRATION TEST RESULTS SUMMARY
POST TEST

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 1
Date: April 26, 2000 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.
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 Serial No.: 268 Sequential Test Number: 1
Date: April 26, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
SH- Seated Height (mm)	889 - 909	899
RH- Rib Height (mm)	502 - 520	513
HP- Hip Pivot Height (mm)	99 ref.	99
RD- Rib from Back Line (mm)	229 - 241	236
KH- Knee Pivot from Back Line (mm)	511 - 526	518
KV- Knee Pivot to Floor (mm)	490 - 505	495
HW- Hip Width (mm)	356 - 391	377

REMARKS: None

LATERAL THORAX IMPACT TEST
POST TEST

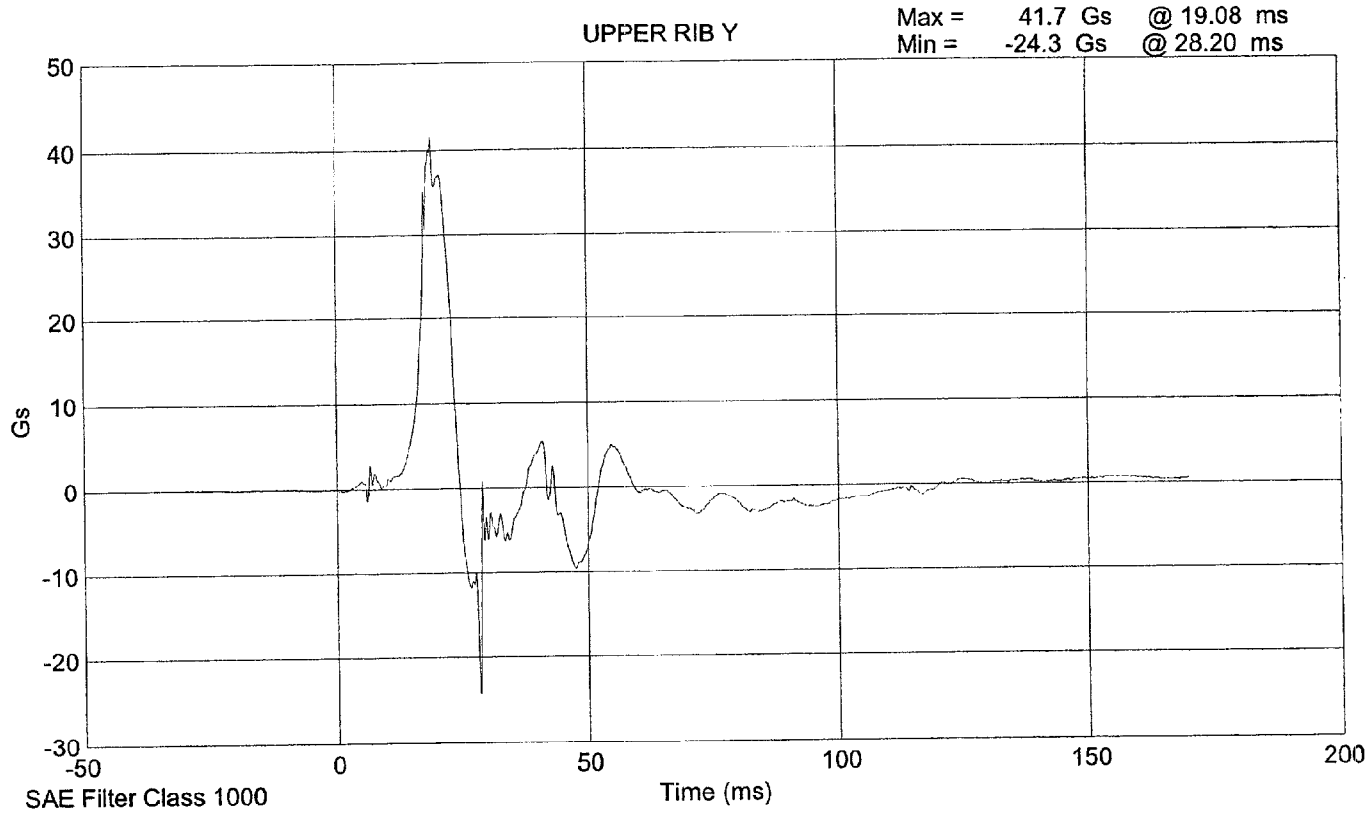
CONFIGURED FOR LEFT SIDE IMPACT

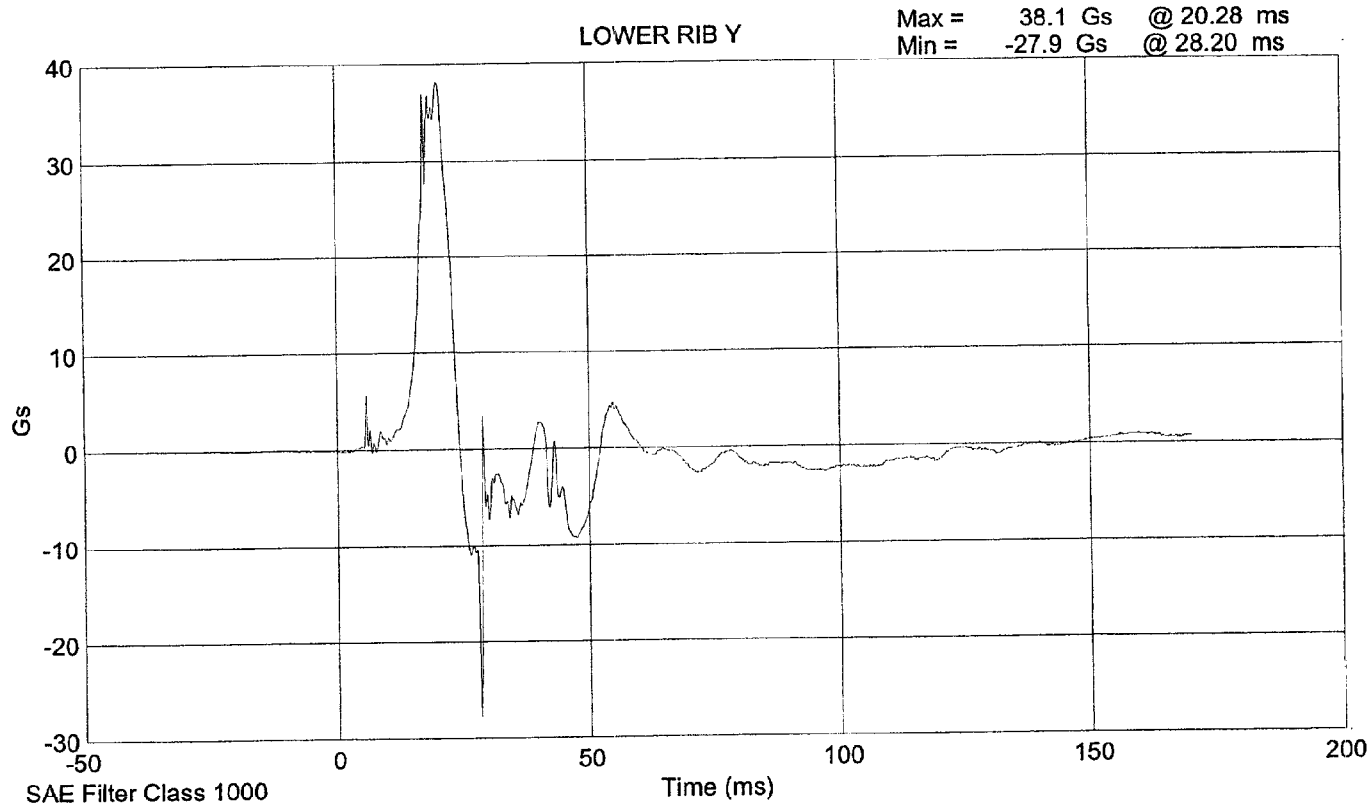
SID Serial No.: 268 Sequential Test Number: 1
Date: April 20, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE. HUMIDITY (%)	10 - 70	30
PROBE SPEED (m/s)	4.27 - 4.33	4.29
UPPER RIB (g's)	37 - 46	40.1
LOWER RIB (g's)	37 - 46	37.9
LOWER SPINE (g's)	15 - 22	21.0

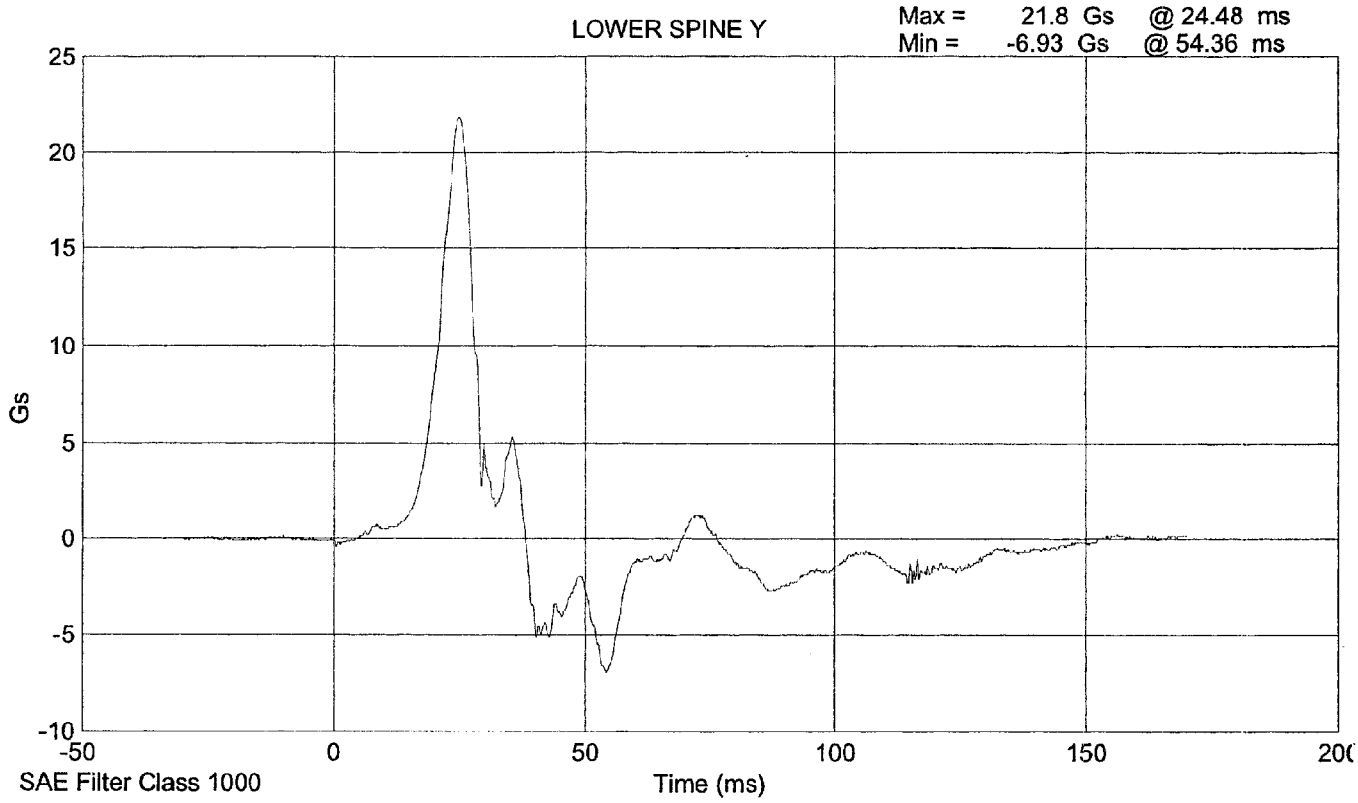
REMARKS: None

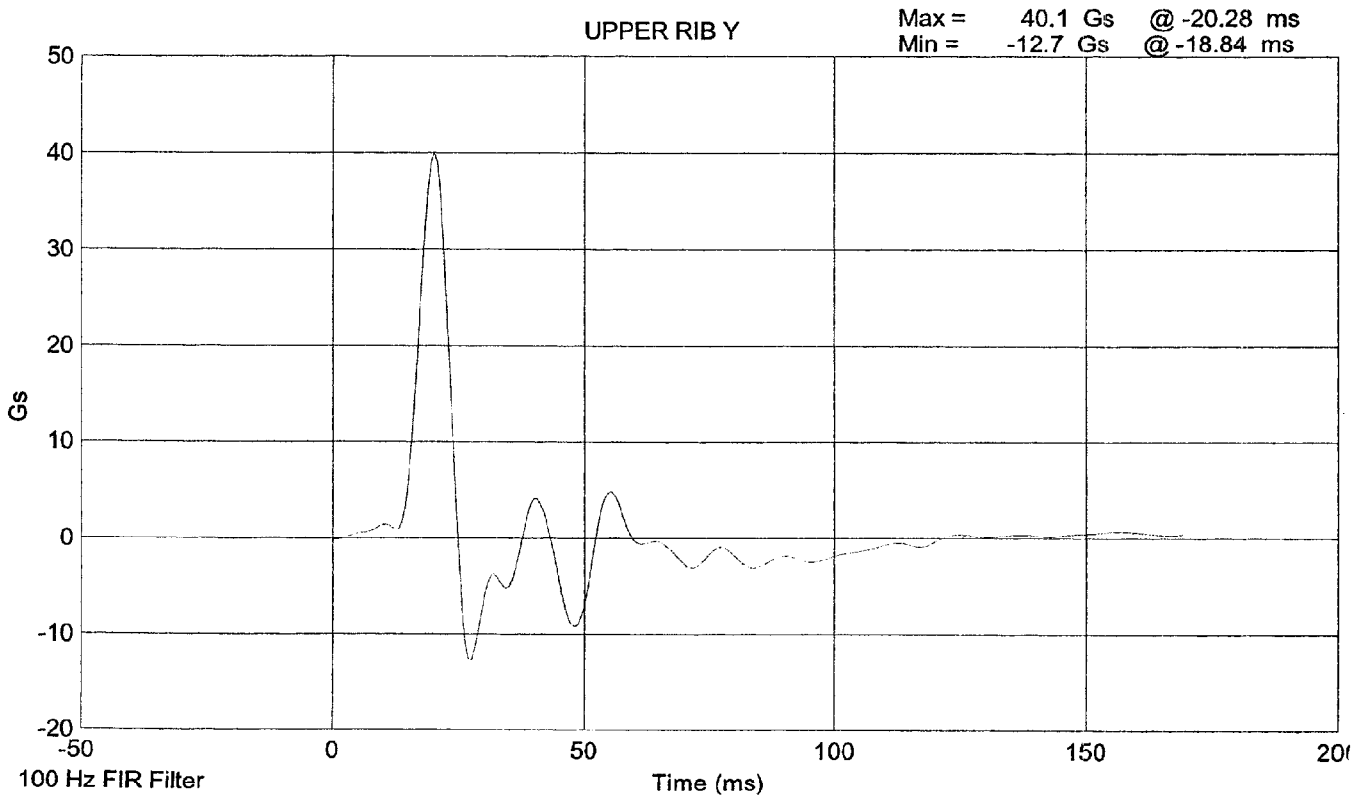
SID 268 Thorax Impact Test @ 4.2885 m/s



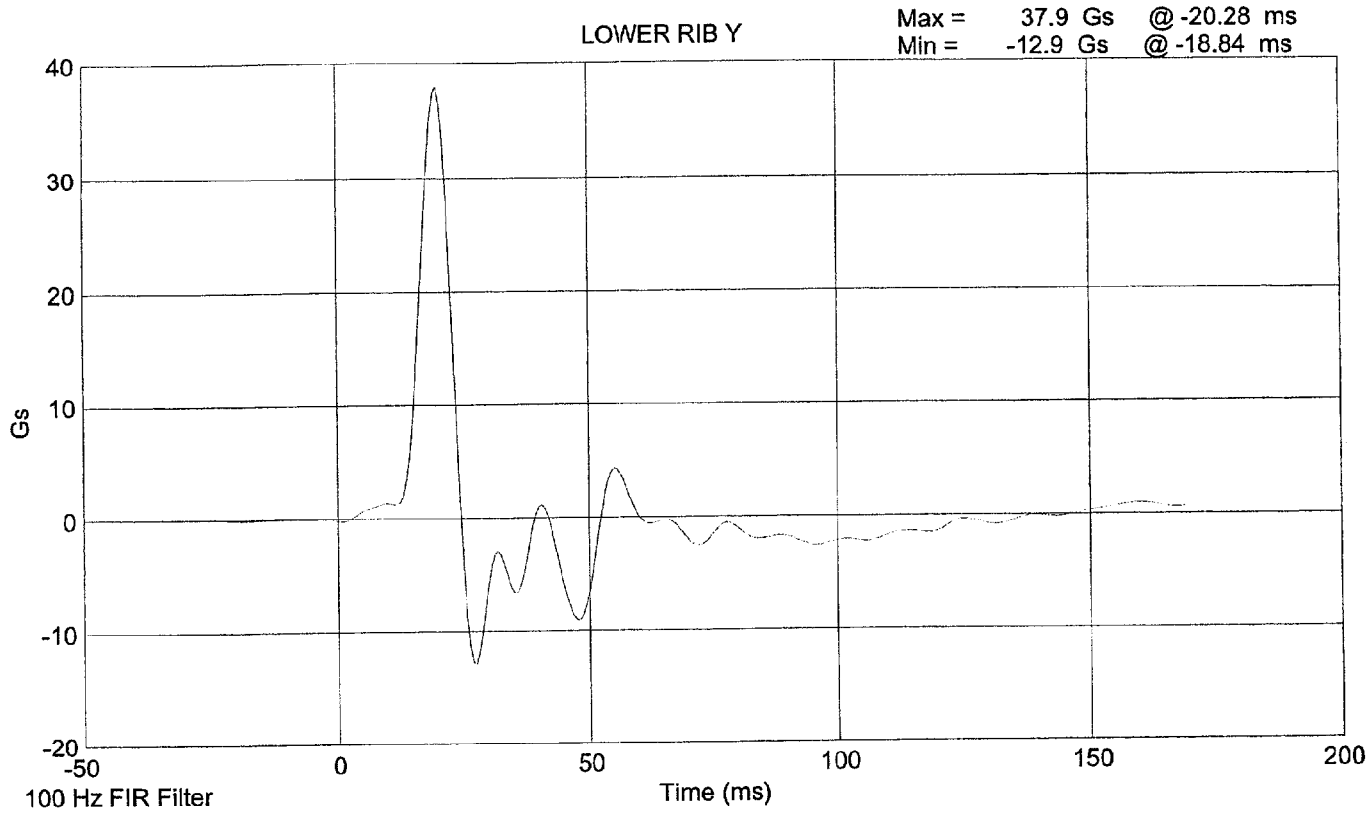


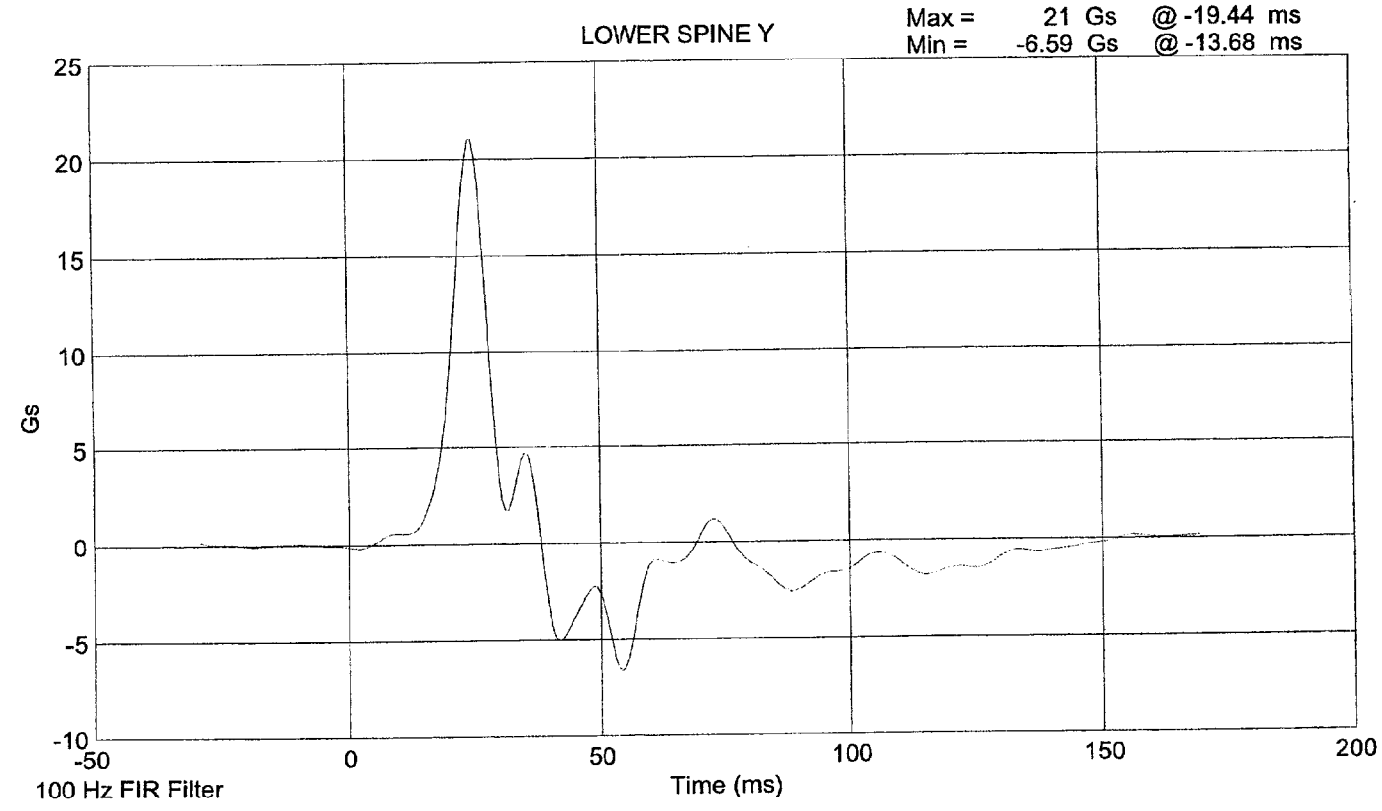
SID 268 Thorax Impact Test @ 4.2885 m/s





SID 268 Thorax Impact Test @ 4.2885 m/s





LATERAL PELVIS IMPACT TEST
POST TEST

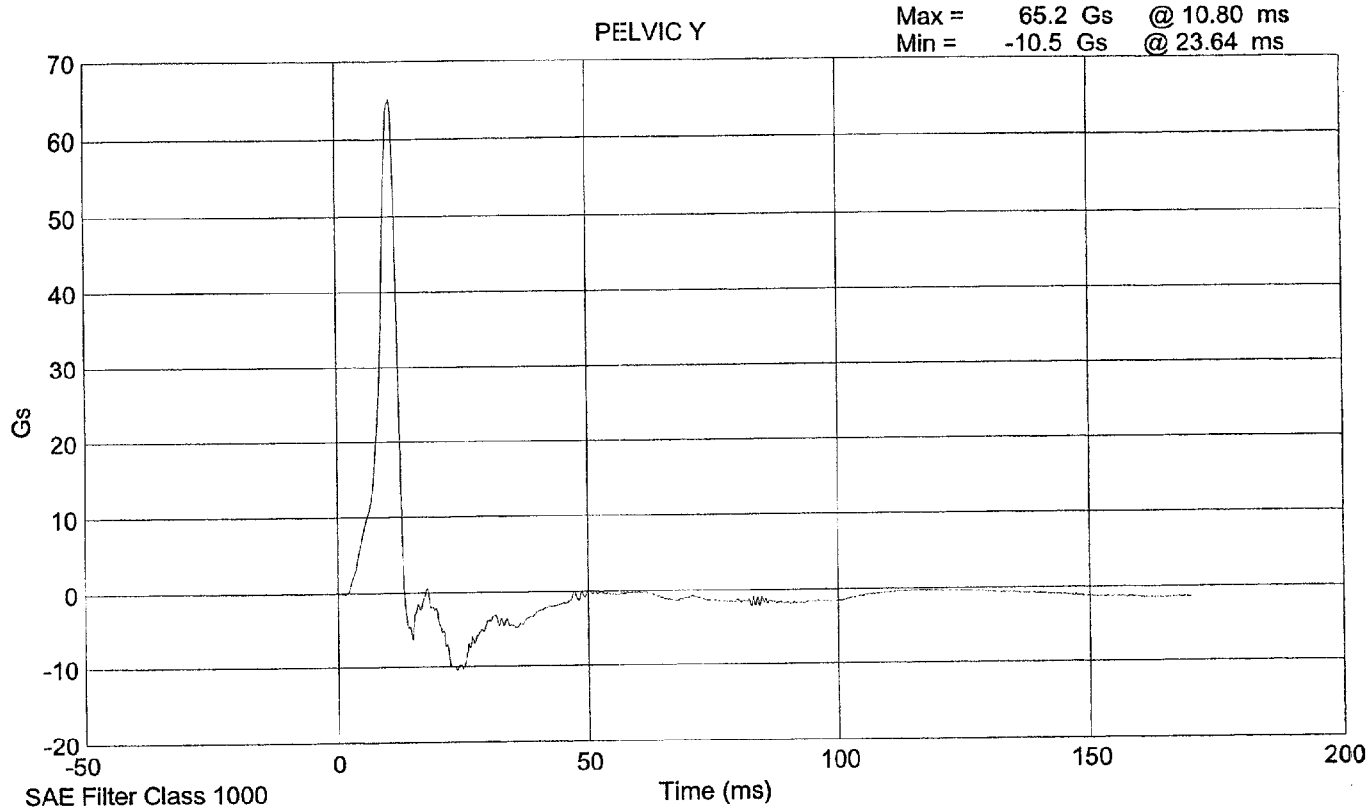
CONFIGURED FOR LEFT SIDE IMPACT

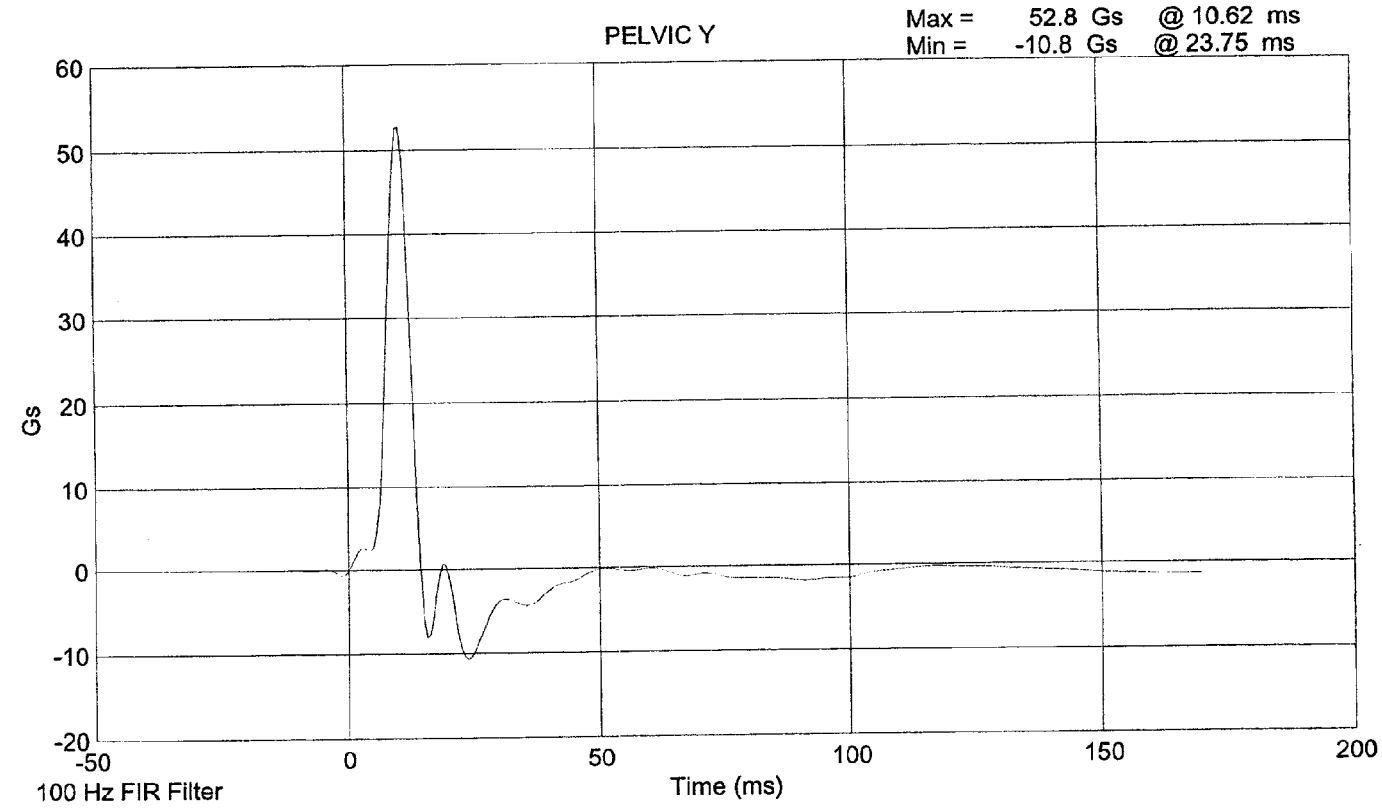
SID Serial No.: 268 Sequential Test Number: 1
Date: April 20, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.1
RELATIVE. HUMIDITY (%)	10 - 70	30
PROBE SPEED (m/s)	4.27 - 4.33	4.29
PELVIS ACCELERATION (g's)	40 - 60	52.8

REMARKS: None

SID 268 Pelvic Impact Test @ 4.2855 m/s





ABDOMINAL COMPRESSION TEST
POST TEST
(Test not required for SID certification)

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 1
Date: April 21, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.7
RELATIVE HUMIDITY (%)	10 - 70	29
FORCE @ 13 mm (N)	104 - 162	107.6
FORCE @ 19 mm (N)	163 - 221	169.5
FORCE @ 25 mm (N)	222 - 280	238.4
FORCE @ 33 mm (N)	325 - 391	348.3

REMARKS: None

Dummy S/N 268

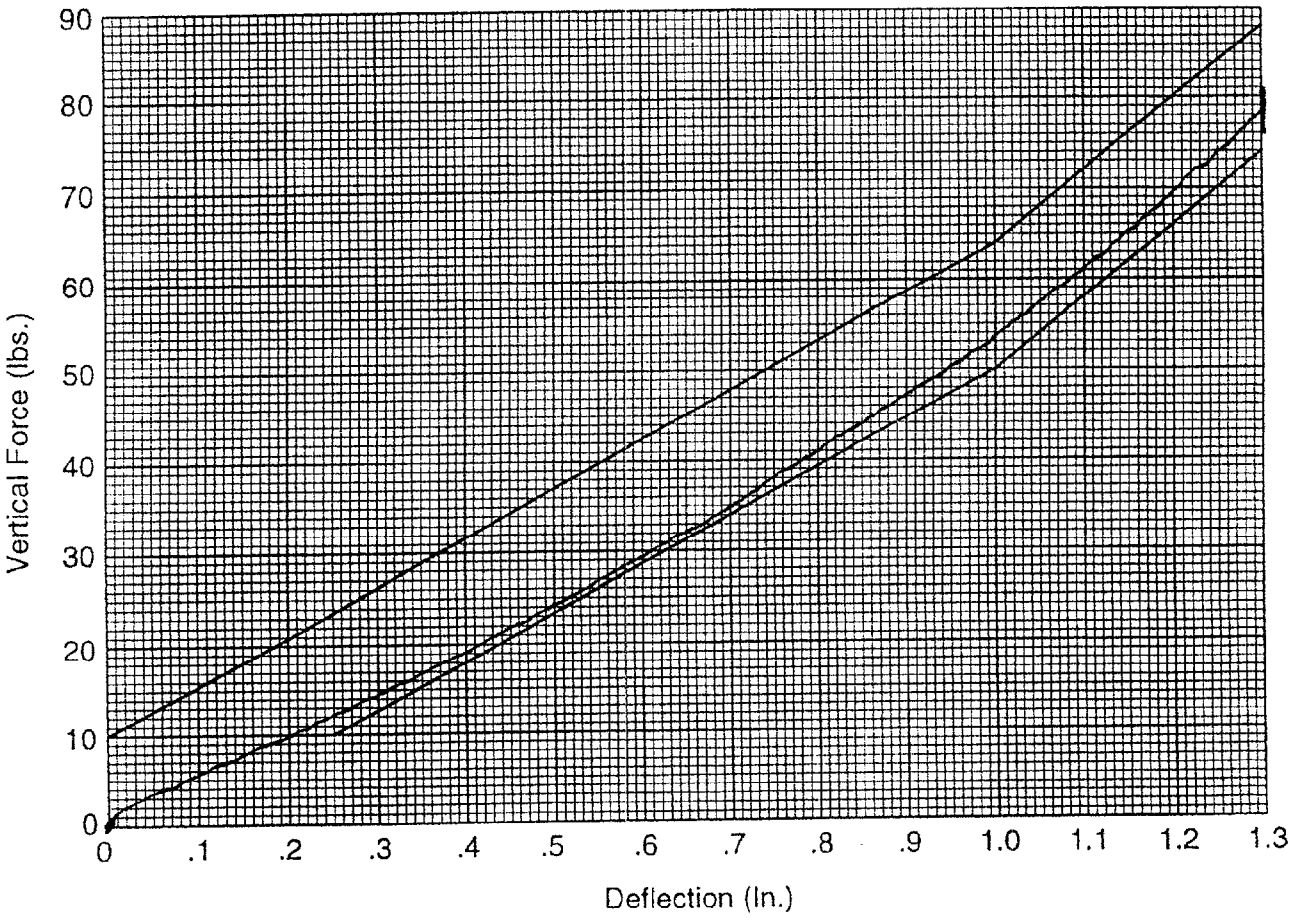
W/A

Date 4-21-2000

Performed By

Temp. 71°

Humidity 29%



Hybrid II
Abdomen Static Press

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

CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 1
Date: April 24, 2000 Laboratory Technician: B. Swiecicki

TEST PARAMETER	SPECIFICATION	TEST RESULTS
TEMPERATURE (°C)	18.9 - 25.5	21.7
RELATIVE HUMIDITY (%)	10 - 70	32
FORCE @ 0° (N)	0 - 26.7	0
FORCE @ 20° (N)	97.8 - 151.2	104.5
FORCE @ 30° (N)	151.2 - 204.6	180.6
FORCE @ 40° (N)	204.6 - 258	250.0
RETURN ANGLE	12° max.	8.0°

REMARKS: None

Dummy S/N 268

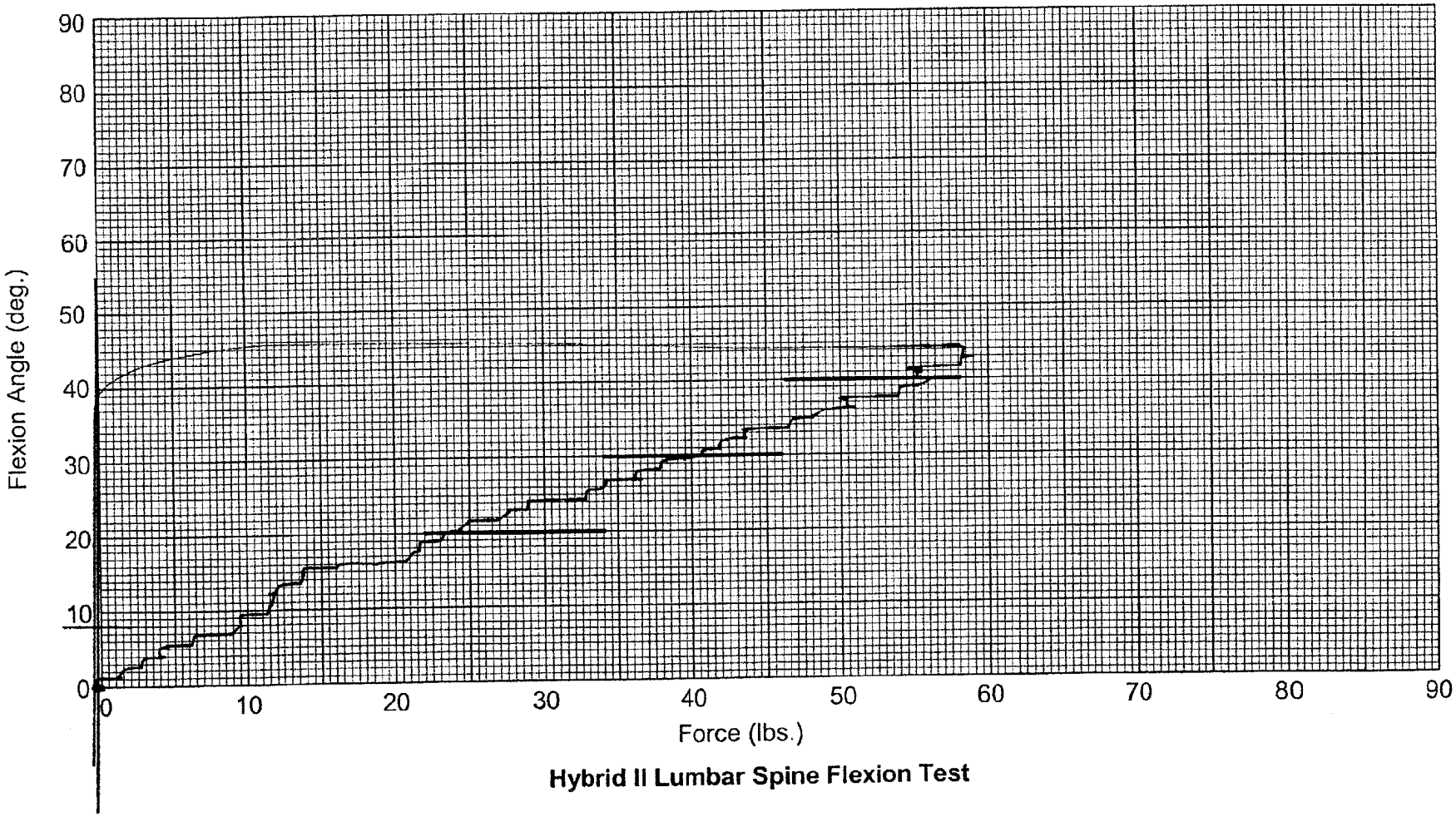
W/A

Date 4-24-2000

Performed By

Temp. 71°

Humidity 32%



Hybrid II Lumbar Spine Flexion Test

POST TEST DUMMY INSPECTION LIST

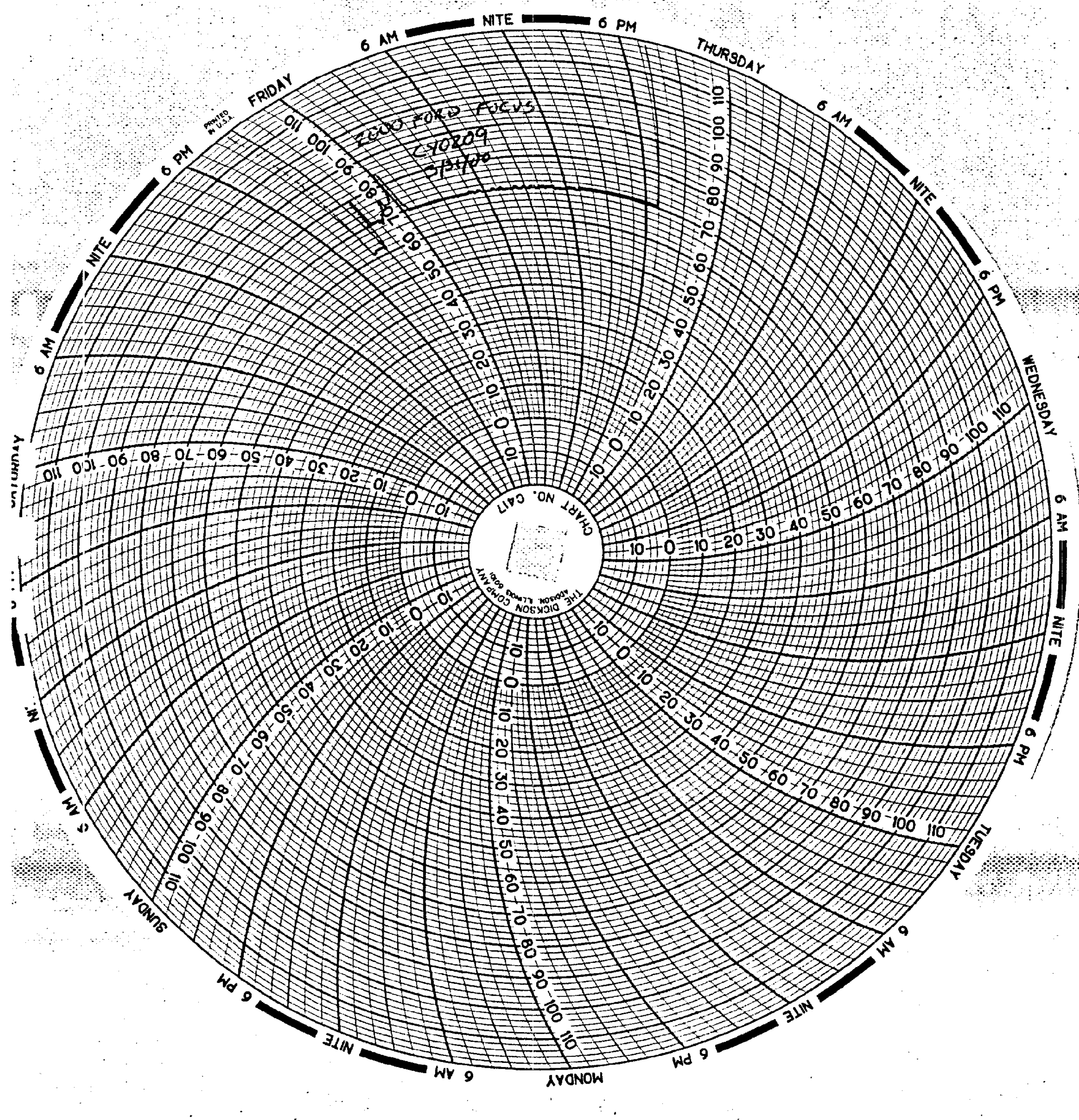
CONFIGURED FOR LEFT SIDE IMPACT

SID Serial No.: 268 Sequential Test Number: 1

Date: April 26, 2000 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


2000 FORD FOCUS
CHART NO. C417
THE DICKSON COMPANY
PRINTED IN U.S.A.
MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
SUNDAY
6 AM
NITE
6 PM

APPENDIX D

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

SID INSTRUMENTATION

	FRONT SID NO.: 016		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
UPPER RIB	AC-J33019	ENDEVCO	1/19/00
LOWER RIB	AC-J33018	ENDEVCO	1/19/00
LOWER SPINE	AC-J33032	ENDEVCO	1/19/00
PELVIS	AC-J33030	ENDEVCO	1/19/00
UPPER RIB REDUNDANT	AC-J34019	ENDEVCO	1/19/00
LOWER RIB REDUNDANT	AC-J32783	ENDEVCO	1/19/00
LOWER SPINE REDUNDANT	AC-J33021	ENDEVCO	1/19/00
PELVIS REDUNDANT	AC-J32782	ENDEVCO	1/19/00

	REAR SID NO.: 268		
	SERIAL NUMBER	MANUFACTURER	CALIBRATION DATE
UPPER RIB	AC-A13599	ENDEVCO	12/8/99
LOWER RIB	AC-A14131	ENDEVCO	12/8/99
LOWER SPINE	AC-A14381	ENDEVCO	12/8/99
PELVIS	AC-A14307	ENDEVCO	12/8/99
UPPER RIB REDUNDANT	AC-A14314	ENDEVCO	12/8/99
LOWER RIB REDUNDANT	AC-A13883	ENDEVCO	12/8/99
LOWER SPINE REDUNDANT	AC-A14510	ENDEVCO	12/8/99
PELVIS REDUNDANT	AC-A14126	ENDEVCO	12/8/99

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-ACC06	ENDEVCO	2/7/00
RIGHT FRONT SILL (Y)	AC-B11351	ENDEVCO	2/7/00
RIGHT FRONT SILL (Z)	AC-B10481	ENDEVCO	2/7/00
RIGHT REAR SILL (X)	AC-AP064	ENDEVCO	2/4/00
RIGHT REAR SILL (Y)	AC-BB14	ENDEVCO	2/4/00
RIGHT REAR SILL (Z)	AC-B10955	ENDEVCO	2/4/00
REAR FLOORPAN ABOVE AXLE (X)	AC-J18649	ENDEVCO	2/4/00
REAR FLOORPAN ABOVE AXLE (Y)	AC-J18622	ENDEVCO	2/4/00
REAR FLOORPAN ABOVE AXLE (Z)	AC-APBB6	ENDEVCO	2/4/00
LEFT REAR SILL (Y)	AC-AY03	ENDEVCO	3/27/00
LEFT FRONT SILL (Y)	AC-J18400	ENDEVCO	2/4/00
RIGHT REAR SEAT OCCUPANT COMP. (Y)	AC-D69	ICS	2/28/00
LOWER LEFT B- PILLAR (Y)	AC-J18436	ENDEVCO	3/27/00
MIDDLE LEFT B-PILLAR (Y)	AC-J31026	ENDEVCO	2/29/00
LOWER LEFT A-PILLAR (Y)	AC-BA80	ENDEVCO	3/27/00
UPPER LEFT A-PILLAR (Y)	AC-APA30	ENDEVCO	1/26/00
FRONT SEAT TRACK (Y)	AC-BA65	ENDEVCO	3/27/00
REAR SEAT TRACK (Y)	AC-D03	ENTRAN	2/29/00
VEHICLE CG (X)	AC-B11073	ENDEVCO	2/7/00
VEHICLE CG (Y)	AC-AP1A2	ENDEVCO	2/7/00
VEHICLE CG (Z)	AC-B10954	ENDEVCO	2/7/00
MDB CG (X)	AC-CL60	ENDEVCO	1/4/00
MDB CG (Y)	AC-CJ54	ENDEVCO	1/4/00
MDB CG (Z)	AC-GK12	ENDEVCO	1/4/00
MDB REAR FRAME MEMBER (X)	AC-CX05	ENDEVCO	1/4/00
MDB REAR FRAME MEMBER (Y)	AC-A27F	ENDEVCO	1/4/00

REMARKS: None