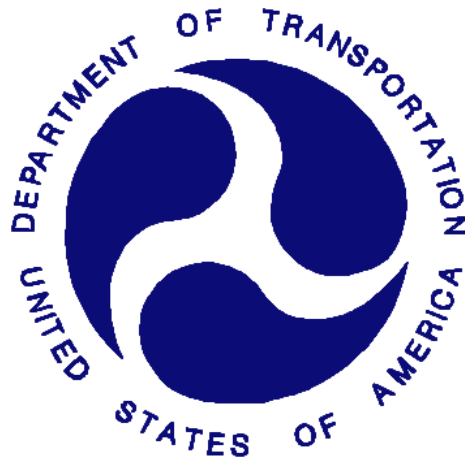


REPORT NUMBER KAR21003-08

**NEW CAR ASSESSMENT PROGRAM
SIDE IMPACT TEST**

**MITSUBISHI MOTOR COMPANY
2001 DODGE STRATUS SE
2 DOOR COUPE
NHTSA NUMBER: M10312**

**PREPARED BY:
KARCO ENGINEERING
9270 HOLLY ROAD
ADELANTO, CALIFORNIA 92301**



DECEMBER 31, 2000

FINAL REPORT

**PREPARED FOR:
U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
SAFETY PERFORMANCE STANDARDS
OFFICE OF CRASHWORTHINESS STANDARDS
MAIL CODE: NPS-10
400 SEVENTH STREET, SW, ROOM 5313
WASHINGTON, D.C. 20590**

This final test report was prepared for the U.S. Department of Transportation, National Highway Traffic Safety Administration, in response to Contract Number DTNH22-99-D-02041.

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FINAL REPORT ACCEPTED BY:

Manager, Side Impact NCAP

Date of Acceptance

Technical Report Documentation Page

1. Report No. KAR21003-08	2. Government Accession No.	3. Recipients Catalog No.																			
4. Title and Subtitle Final Report of New Car Assessment Program Testing Side Impact Testing of a 2001 Dodge Stratus SE 2 Door Coupe NHTSA NO. M10312		5. Report Date December 31, 2000																			
		6. Performing Organization Code KAR																			
7. Author(s) Mr. James E Gorth, Project Engineer, Karco Mr. Frank Richardson, Project Manager, Karco		8. Performing Organization Report No. KAR21003-08																			
9. Performing Organization Name and Address KARCO Engineering 9270 Holly Road Adelanto, CA 92301		10. Work Unit No.																			
		11. Contract or Grant No. DTNH22-99-D-02041																			
12. Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Administration Safety Performance Standards Office of Crashworthiness Standards Mail Code: NPS-10 400 Seventh Street, SW, Room 5313 Washington, D.C. 20590		13. Type of Report and Period Covered Final Test Report Option Year 1																			
		14. Sponsoring Agency Code DOT/NHTSA/NRM/OCS																			
15. Supplementary Notes																					
16. Abstract A 55/28 km/h 90 deg. Moving Deformable Barrier Side Impact NCAP Test was conducted on the subject 2001 Dodge Stratus SE 2 Door Coupe in accordance with the specifications of the Office of Crash Worthiness Standards Test Procedure for the generation of consumer information on vehicle side crash protection. The test was conducted at KARCO Engineering laboratories in Adelanto, California, on December 22, 2000. The impact velocity of the Moving Deformable Barrier was 61.30 km/h, and the outside ambient temperature at the struck (driver's) side of the vehicle was 18.8 C. The target vehicle's maximum post test static crush was 298 mm located at level 2 . The test vehicle's occupant performance is as follows: <table border="1" style="width: 100%; margin-top: 10px; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">Measurement Description</th> <th style="width: 15%;">Driver SID</th> <th style="width: 15%;">Passenger SID</th> </tr> </thead> <tbody> <tr> <td>Left Upper Rib (LUR) G's</td> <td style="text-align: center;">87.8</td> <td style="text-align: center;">54.5</td> </tr> <tr> <td>Left Lower Rib (LLR) G's</td> <td style="text-align: center;">88.6</td> <td style="text-align: center;">52.4</td> </tr> <tr> <td>Lower Spine (T₁₂) G's</td> <td style="text-align: center;">85.4</td> <td style="text-align: center;">58.0</td> </tr> <tr> <td>Thoracic Trauma Index (TTI) G's</td> <td style="text-align: center;">87</td> <td style="text-align: center;">56</td> </tr> <tr> <td>Pelvis (PEV) G's</td> <td style="text-align: center;">83</td> <td style="text-align: center;">65</td> </tr> </tbody> </table>				Measurement Description	Driver SID	Passenger SID	Left Upper Rib (LUR) G's	87.8	54.5	Left Lower Rib (LLR) G's	88.6	52.4	Lower Spine (T ₁₂) G's	85.4	58.0	Thoracic Trauma Index (TTI) G's	87	56	Pelvis (PEV) G's	83	65
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19. Security Classification(of this report) UNCLASSIFIED	20. Security Classification(of this page) UNCLASSIFIED	21. No. of Pages 274	22. Price																		

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SECTION 1
PURPOSE and TEST PROCEDURE

1.1 PURPOSE

This Side Impact NCAP test is conducted as part of the FY' 2001 test program sponsored by the National Highway Traffic Safety Administration (NHTSA), under contract No. DTNH22-99-D-02041. The purpose of this test is to generate comparative side impact data on a 2001 Dodge Stratus SE 2 Door Coupe manufactured by Mitsubishi Motor Company.

1.2 TEST PROCEDURE

The side impact test was conducted in accordance with the current National Highway Traffic Safety Administration (NHTSA), Office of Crashworthiness Standards (OCS), laboratory test procedure NCAP Side Impact Testing, dated July 1997 and the corresponding KARCO Engineering Test Procedure KTP-214D, dated November 18, 1998. The procedures for receiving, inspection, testing, and reporting of test results are described in the test procedures and are not repeated in this report.

SECTION 2

SUMMARY OF SIDE IMPACT TEST

2.1 SUMMARY OF SIDE IMPACT NCAP TEST

A model year 2001 Dodge Stratus SE 2 Door Coupe was impacted on the left (driver's) side by a Moving Deformable Barrier (MDB) which was moving forward in a 27° crabbed position to the tow road guidance system at a velocity of 61.30 km/h. The specified impact velocity range is from 61.1 to 62.7 km/h. The test (target) vehicle was stationary and positioned 63° to the line of forward motion. The weight of the vehicle as tested was 1591 kg. and the test weight of the MDB was 1361 kg. The test was conducted at KARCO Engineering in Adelanto, California, on December 22, 2000.

One (1) real-time motion picture camera and eleven (11) high-speed motion picture cameras were used to document the impact event. The pre-test and post-test conditions were recorded by one (1) real-time motion picture camera. Camera locations and pertinent camera information is documented in the data sheets. Pre- and post-test photographs of the vehicle and SID can be found in Appendix A. Two 50th percentile adult male Side Impact Dummy's (SID's) were placed in the driver's and left rear passenger designated seating positions according to the test procedure. Each SID is instrumented with contact switches on the pelvis and thorax, and eleven accelerometers in the following locations:

- Left Upper Rib (LUR) uni-axial accelerometer (Y-axis primary and redundant)
- Left Lower Rib (LLR) uni-axial accelerometer (Y-axis primary and redundant)
- Lower Thoracic Spine (T12) uni-axial accelerometer (Y-axis primary and redundant)
- Pelvic (PEV) section uni-axial accelerometer (Y-axis primary and redundant)
- Head Center of Gravity (CG) tri-axial accelerometers (X, Y, and Z axes)

The test vehicle was instrumented with twenty-five (25) structural accelerometers and the MDB was instrumented with five (5) accelerometers and a one (1) contact switch on the right bumper to compare left side to right side bumper impact timing. All data channels were recorded with a fully self contained on-board Test Data Acquisition System (TDAS). The data was digitally sampled at 10,000 samples per second and processed per Appendix V of the Test Procedure.

2.2 GENERAL COMMENTS

The test vehicle sustained a maximum static crush of 298 mm at level 2, 1650mm rearward of the left vertical impact point. The driver SID, Serial No. 274 and the passenger SID, Serial No. 275 were calibrated just prior to this test. The SID injury criteria is summarized as follows:

Measurement	Units	Driver	Passenger
Thoracic Trauma Index (TTI)	G's	87	56
Peak Pelvic G's (PEV)	G's	83	65

Tests summaries and post-test observations are presented in Section 3. The vehicle, camera, and occupant measurements are presented in Section 4. Appendix A contains the still photograph prints. Appendix B contains the driver and passenger SID's, vehicle, and MDB response data traces. Appendix C contains the SID's Configuration and performance verification data. Appendix D contains the test equipment information.

SECTION 3

SIDE IMPACT DUMMY (SID) AND VEHICLE TEST DATA

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No. M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00

CONVERSION FACTORS USED IN THIS REPORT*

Quantity	Typical Application	Std Units	Metric Unit	Multiply By
Mass	Vehicle Weight	lb	kg	0.4536
Linear Velocity	Impact Velocity	mile/h	km/h	1.609
Length or Distance	Measurements	in	mm	25.4
Volume	Fuel Systems	gal	liter	3.785
Volume	Small Fluids	oz	mL	29.573
Pressure	Tire Pressures	lbf/in ²	kPa	7.0
Volume	Liquid	gal	liter	3.785
Temperature	General Use	°F	°C	$=(tf - 32)/1.8$
Force	Dynamic Forces	lbf	N	4.448
Moment	Torque	lbf/ft	Nm	1.355

* Based on the Recommended Practice in SAE J916, May 85

**DATA SHEET NO. 1
GENERAL TEST AND VEHICLE PARAMETER DATA**

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00

TEST VEHICLE INFORMATION

Make	Dodge
Model	Stratus SE
Body Style	2 Door Coupe
NHTSA No.	M10312
VIN	4B3AG42G31C065818
Color	Black
Delivery Date	12/13/00
Odometer Reading (mile)	113
Dealer	Glendora Dodge
Transmission	5-Speed Manual
Final Drive	Front
Number of Cylinders	4
Engine Displacement (L)	2.4
Engine Placement	Transverse

TEST VEHICLE OPTIONS

Driver Airbag	Yes
Passenger Airbag	Yes
Power Windows	Yes
Power Steering	Yes
Power Door Locks	Yes
Tilt Wheel	Yes
Air Conditioning	Yes
Power Brakes	Yes
Disc Brakes, Front	Yes
Disc Brakes, Rear	No
Anti-lock Brakes	No
AM/FM/Cassette	Yes
Anti-Theft System	No
Cruise Control	Yes

DATA FROM CERTIFICATION LABEL

Manufactured By	Mitsubishi Motor MFG. of America, INC.	GVWR (kg)	1842
Date of Manufacture	September-00	GAWR Front (kg)	985
		GAWR Rear (kg)	859

DATA FROM TIRE PLACARD

Measured Parameter	Front	Rear
Maximum Tire Pressure (kPa)	225	225
Cold Pressure (kPa)	225	225
Recommend Tire Size	P205/55/R16 89H	P205/55/R16 89H
Tire Size on Vehicle	P205/55/R16 89H	P205/55/R16 89H
Tire Manufacturer	Goodyear	Goodyear

Measured Parameter	Front	Rear	Third	Total
Type of Seats	Bucket	Bench	None	
Number of Occupants	2	3	N/A	5
Capacity Wt. (VCW) (kg)				375
Cargo Weight (RCLW) (kg)				35

DATA SHEET NO. 1...(continued)
GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M10312
 Test Date: 12/22/00

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	413	277		451	350	
Right	kg	430	283		453	337	
Ratio	%	60.1	39.9		56.8	43.2	
Totals	kg	843	560	1403	904	687	1591

TARGET TEST WEIGHT CALCULATION*

Measured Parameter	Units	Value
Total Delivered Weight (UVW)	kg	1403
Weight of 2 P572F Side Impact Dummies	kg	161.5
Rated Cargo/Luggage Weight (RCLW)	kg	35
Calculated Vehicle Target Weight (TVTW)	kg	1600

*Actual As Tested Weight (ATW) will be TVTW -5/-10 kg

TEST VEHICLE ATTITUDES AND CG

	Units	LF	RF	LR	RR	CG (aft of front axle)
As Delivered	mm	706	712	718	725	1057
As Tested	mm	690	699	696	708	1143
Fully Loaded	mm	697	705	696	711	

GENERAL TEST VEHICLE DATA

Measurement Description	Units	Value
Test Vehicle Wheel base	mm	2648
Total Vehicle Length at Left Side	mm	3325
Total Vehicle Length at Centerline	mm	4853
Total Vehicle Length at Right Side	mm	3328
Weight of Ballast In Cargo Area	kg	22
Amount of Stoddard Solvent in Fuel Tank	Liters	57.3

TEST VEHICLE VERTICAL IMPACT LINE DATA

Measurement Description	Units	Value
Test Vehicle Wheel base	mm	2648
Target Impact Point Aft of Front Axle	mm	384
Actual Impact Point Aft of Front Axle	mm	402

DATA SHEET NO. 1...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No. M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00

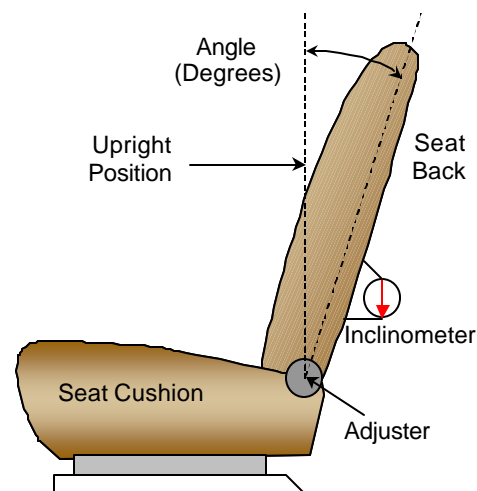
NOMINAL DESIGN RIDING POSITION

The driver's seat back is positioned to the manufacturers designated angle. The procedure for the seat is as follows:

A slit is cut into fabric of the seat at the outboard edge, approximately 10-13 inches above the pivot point to expose the frame of the seat. An inclinometer is firmly placed against the flat portion of the frame surface and the seat back is adjusted.

Driver seat back angle: 34.8° with a seated dummy

Rear seat back angle: Fixed at approx. 25°



FRONT SEAT ASSEMBLY

SEAT FORE/AFT POSITIONS

The driver's seat is adjustable. The fore/aft is set to the middle position.

Driver seat fore/aft total travel: 23 detents

Rear seat fore/aft total travel: Fixed

Driver seat fore/aft position: Set in the 12th detent from the rear

Rear seat fore/aft position: Fixed

SEAT BELT UPPER ANCHORAGE

The test vehicle is equipped with an adjustable "D" ring anchorage for the driver's seat position. There are 5 positions or detents. The driver's "D" ring anchorage is placed in the 5th position from the top (The top is counted as position #1). The rear seat anchor is fixed; no adjustment is possible.

DATA SHEET NO. 1...(continued)

GENERAL TEST AND VEHICLE PARAMETER DATA

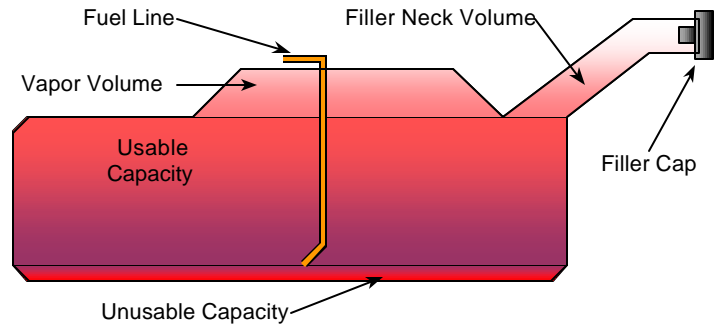
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No. M10312
 Test Date: 12/22/00

FUEL TANK CAPACITY DATA

The "Usable Capacity" of the standard equipment fuel tank is: 61.7 liters
 The "Usable Capacity" of any optional equipment fuel tank is: N/A liters
 92-94% of "Usable Capacity" for certification to FMVSS 301 requirement: 56.7 to 57.9 liters
 Actual amount of Stoddard solvent added to vehicle for certification test: 57.3 liters

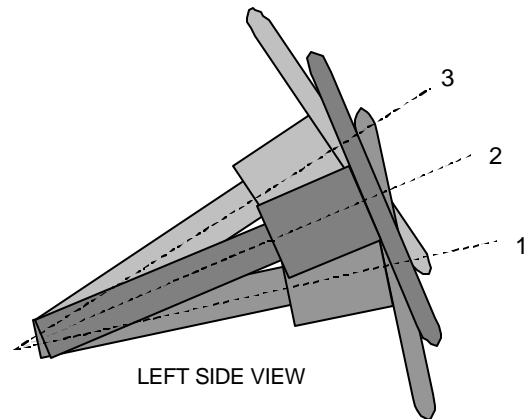
The test vehicle is equipped with an electric fuel pump. The fuel pump will operate for approximately three (3) seconds with the ignition in the "ON" position, after which the fuel pump automatically shuts off. The fuel filler door is located on the left rear fender.



VEHICLE FUEL TANK ASSEMBLY

STEERING COLUMN ADJUSTMENT

Steering wheel and column adjustments are made so that the steering wheel hub is at the geometric center of the locus it describes, when it is moved through its full range of motion. An aluminum plate is placed across the rim of the steering wheel, an inclinometer is placed onto the plate and the angle is measured. This vehicle's steering column has six detents of adjustment; it is placed in the fourth detent, position 2 as indicated in the drawing at right.



STEERING COLUMN ASSEMBLY

Lowermost, position 1: 13°
 Geometric center, position 2: 18.5°
 Uppermost, position 3: 24°

**DATA SHEET NO. 2
TEST VEHICLE SUMMARY OF RESULTS**

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M10312
 Test Date: 12/22/00

TEST VEHICLE WEIGHTS

	Units	As Delivered (UVW)			As Tested (ATW)		
		Front Axle	Rear Axle	Total	Front Axle	Rear Axle	Total
Left	kg	413	277		451	350	
Right	kg	430	283		453	337	
Weight Ratio	%	60.1	39.9		56.8	43.2	
Totals	kg	843	560	1403	904	687	1591

MAXIMUM EXTERIOR STATIC CRUSH

Level	Measured Parameter	Units	Maximum Crush	Above Ground
Level 1	Sill Top Height	mm	86	238
Level 2	Occupant H-Point	mm	298	402
Level 3	Mid Door	mm	269	553
Level 4	Window Sill	mm	275	836
Level 5	Window Top	mm	129	1238
N/A	Maximum Penetration	mm	298	

INSTRUMENTATION

Driver SID Accelerometers	11
Passenger SID Accelerometers	11
Vehicle Structure Accelerometers	25
MDB Accelerometers	5
Total	52

16mm MOVIE COVERAGE

High Speed, Vehicle On-Board	3
High Speed, Off-Board	6
High Speed, MDB On-Board	2
Real Time, Panning	1
Total	12

**DATA SHEET NO. 3
MOVING DEFORMABLE BARRIER (MDB) SUMMARY OF RESULTS**

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M10312
 Test Date: 12/22/00

MDB SPECIFICATIONS (mm)

Measurement Description	Length
Overall Width of Framework Carriage	1252
Overall Length Including Honeycomb Face	4115
Wheel base of Framework Carriage	2590
C.G. Location aft of Front Axle	1127

MDB WEIGHTS

	Units	Front Axle	Rear Axle	Total
Left	kg	384	308	
Right	kg	385	284	
Ratio	%	56.5	43.5	
Totals	kg	769	592	1361

SPEED AND IMPACT ANGLE DATA

Measured Parameter	Units	Requirement	Value
Trap No. 1 Velocity (Primary)	km/h	61.1 to 62.7	61.30
Trap No. 2 Velocity (Redn.)	km/h	61.1 to 62.7	61.8
MDB CL to Target Vehicle CL	degrees	88.5 to 91.5	89.5

MAXIMUM STATIC CRUSH OF HONEYCOMB FACE (mm)

Vertical Location			From Centerline		Max Crush
Row	Description	Height	Distance	Direction	
A	Center of Bumper	432	800	Left	215
B	Top of Bumper	533	800	Right	187
C	Mid Level	686	800	Right	198
D	Top of Stack	813	800	Right	174

MDB INSTRUMENTATION AND CAMERAS

Accelerometers	5
Contact Switches	2
High Speed Cameras	2

**DATA SHEET NO. 4
POST TEST OBSERVATIONS**

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M10312
 Test Date: 12/22/00

TEST DUMMY INFORMATION AND CONTACT POINTS

Description	Front Seat SID	Rear Seat SID
Dummy Type / Serial No.	P572F, SID / No. 274	P572F, SID / No. 275
Head Contact	Window	Seat/C-Pillar
Upper Torso Contact	Door Panel	Door Panel
Lower Torso Contact	Door Panel	Seat/Door Panel
Left Knee Contact	Door Panel	Door Panel
Right Knee Contact	Knee	Knee

POST TEST DOOR OPENING AND SEAT TRACK INFORMATION

Description	Front	Rear
Left Side Door Opening	Remained closed inoperable	N/A
Right Side Door Opening	Remained closed operable	N/A
Seat Movement	None	None
Seat Back Failure	None	None

POST TEST STRUCTURAL OBSERVATIONS

Critical Areas of Performance	Observations and Conclusions
Pillar Performance	Pillars pushed inward with no apparent failure
Sill Separation	No Apparent Visible Failure
Windshield Damage	Glazing Cracks on Struck Side Only
Window Damage	Both Left Side Windows Broke
Other Notable Effects	No significant items to note.

AIR BAG DEPLOYMENT

	Driver	Front Passenger	Rear Passenger
Front	No	No	N/A
Side	N/A	N/A	N/A

MDB LEFT EDGE IMPACT POINT DATA

Measured Parameter	Units	Requirement	Value
Horizontal Offset	mm	+/- 50	18 (right)
Vertical Offset	mm	+/- 20	2 (below)

SECTION 4
OCCUPANT AND VEHICLE INFORMATION

DATA SHEET NO. 5
SID INJURY CRITERIA AND SENSOR DATA

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00

THORAX AND PELVIS PEAK ACCELERATIONS, PRIMARY (FIR 100 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	87.8	25.9	-35.3	69.0	54.5	42.3	-5.9	116.2
Lower Rib (LLR)	Y	G's	88.6	26.6	-34.5	67.6	52.4	40.2	-3.8	116.7
Lower Spine (T ₁₂)	Y	G's	85.4	28.9	-29.5	59.8	58.0	46.5	-5.2	84.3
Pelvis (PEV)	Y	G's	82.7	24.1	-15.3	55.9	65.2	40.1	-5.4	70.3

THORACIC TRAUMA INDEX (TTI) AND PELVIC ACCELERATION, PRIMARY (FIR 100 Filtered)

Location	Driver				Passenger			
	LLR	T ₁₂	TTI(g)	PEV(g)	LUR	T ₁₂	TTI(g)	PEV(g)
Primary Rib, Spine, and Pelvis	88.582	85.402	87	83	54.528	58.040	56	65

THORAX AND PELVIS PEAK ACCELERATIONS, REDUNDANT (FIR 100 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Upper Rib (LUR)	Y	G's	88.4	26.2	-34.9	69.1	56.3	42.5	-5.8	116.4
Lower Rib (LLR)	Y	G's	87.7	26.9	-35.0	67.8	52.6	40.8	-3.6	116.9
Lower Spine (T ₁₂)	Y	G's	85.5	29.1	-30.3	60.0	58.6	47.7	-4.6	134.8
Pelvis (PEV)	Y	G's	81.8	24.3	-14.5	55.9	65.5	40.3	-5.8	70.7

THORACIC TRAUMA INDEX (TTI) AND PELVIC ACCELERATION, REDUNDANT (FIR 100 Filtered)

Location	Driver				Passenger			
	LUR	T ₁₂	TTI(g)	PEV(g)	LUR	T ₁₂	TTI(g)	PEV(g)
Redundant Rib, Spine, and Pelvis	88.355	85.519	87	82	56.265	58.623	57	65

HEAD CG PEAK ACCELERATIONS (SAE CLASS 1000 Filtered)

Location	Axis	Units	Driver				Passenger			
			Max	Time	Min	Time	Max	Time	Min	Time
Head CG	X	G's	7.4	141.3	-47.2	61.4	6.3	60.2	-36.5	50.7
Head CG	Y	G's	177.1	61.2	-12.3	170.3	108.6	49.8	-5.6	189.1
Head CG	Z	G's	78.2	50.7	-21.3	38.8	11.3	49.6	-30.6	60.0
Head CG Resultant	N/A	G's	183.6	61.2			111.9	49.8		

HEAD INJURY CRITERIA (SAE CLASS 1000 Filtered)

Location	Driver				Passenger			
	HIC	T ¹	T ²	Avg G	HIC	T ¹	T ²	Avg G
Head CG	1209.9	38.2	67.1	70.5	624.3	47.6	57.4	83.2

Positive Acceleration Polarities: Longitudinal (X) = Forward
 (Conforms to SAE J211) Lateral (Y) = Right
 Vertical (Z) = Down

DATA SHEET NO. 6

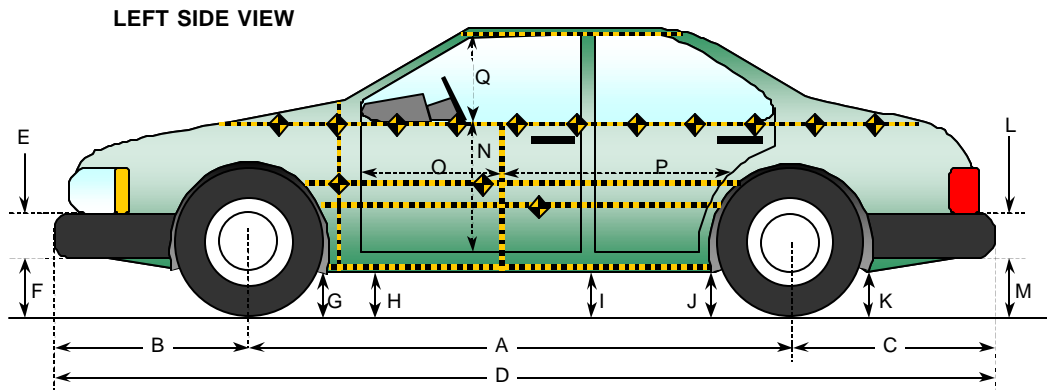
VEHICLE PRE-TEST AND POST-TEST MEASUREMENTS

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00



All Measurements in mm

Code	Measurement Description	Pre-Test	Post-Test	Difference
A	Wheelbase	2648	2625	23
B	Front Axle To FSOV	1020	1025	-5
C	Rear Axle to RSOV	1182	1182	0
D	Total Length at Centerline	4853	4835	18
E	Front Bumper Thickness	386	386	0
F	Front Bumper Bottom to Ground	160	181	-21
G	Sill Height at Front Wheel Well	173	171	2
H	Sill Height at Front Door Leading Edge	174	188	-14
I	Sill Height at "B" Pillar	165	161	4
J1	Sill Height at Rear Wheel Well	154	159	-5
J2	Pinch Weld Height at Rear Wheel Well	174	180	-6
K	Sill Height aft of Rear Wheel Well	214	256	-42
L	Rear Bumper Thickness	413	413	0
M	Rear Bumper Bottom to Ground	300	337	-37
N	Sill Height to Window Bottom Sill	617	533	84
O	Front Door Leading Edge to Impact CL	730	722	8
P	Rear Door Trailing Edge to Impact CL	N/A		
Q	Front Window Opening	322	316	6
R	Right Side Length	3328	3272	56
S	Left Side Length	3325	3196	129
T	Vehicle Width at "B" Post	1778	1700	78

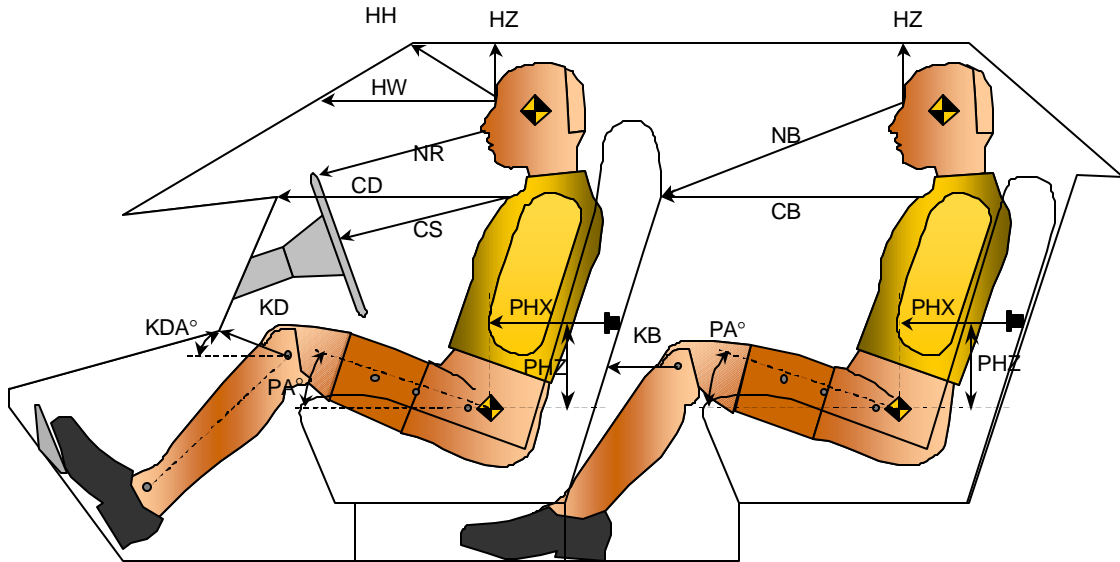
DATA SHEET NO. 7
SID LONGITUDINAL CLEARANCE DIMENSIONS

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00



Driver Code	Pass. Code	Measurement Description	Driver		Passenger	
			Length(mm)	Angle(°)	Length(mm)	Angle(°)
HH		Head to Header	462	16		
HW		Head to Windshield	710			
HZ	HZ	Head to Roof	159	90	150	90
NR	NB	Nose to Rim/Nose to Seatback	457	11	650	29
CD	CB	Chest to Dash or Seatback	600	3	465	12
CS		Chest to Steering Wheel	266	10		
KDL	KBL	Left Knee to Dash or Seatback	187	24	135	
KDR	KBR	Right Knee to Dash or Seatback	194		131	
PA	PA	Pelvic Angle		25		28
PHX	PHX	H-Point to Striker (X-Axis)	445		360	
PHZ	PHZ	H-Point to Striker (Z-Axis)	250		165	

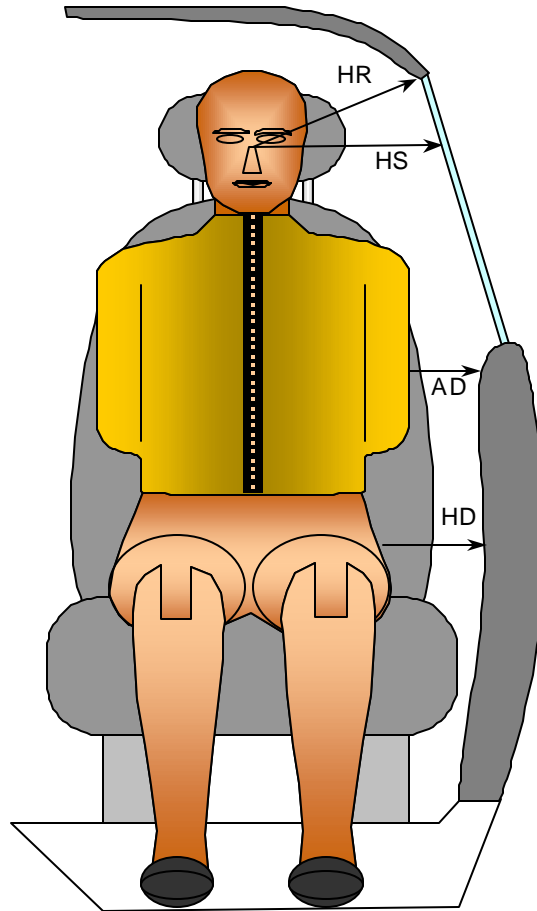
DATA SHEET NO. 8
SID LATERAL CLEARANCE DIMENSIONS

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00



FRONT VIEW OF DUMMY

Code	Measurement Description	Units	Driver	Passenger
HR	Head to Side Header	mm	200	202
HS	Head to Side Window	mm	294	371
AD	Arm to Door	mm	35	109
HD	H-Point to Door	mm	112	114

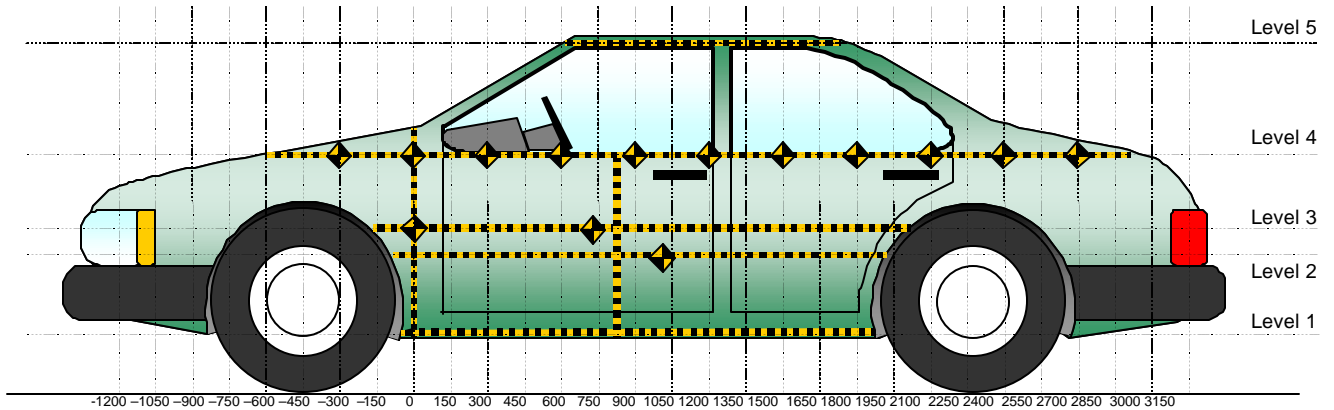
DATA SHEET NO. 9
VEHICLE SIDE MEASUREMENTS

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00



All Measurements Shown in mm

LEFT SIDE VIEW

Measurements are taken with vehicle in the as tested condition.

Measurements taken 900mm right of impact reference.

All measurements below in mm.

Level	Measurement Description	Height Above Ground
5	Window Top	1238
4	Window Sill	836
3	Mid Door	553
2	Occupant H-Point	402
1	Sill Top	238

DATA SHEET NO. 10 - VEHICLE EXTERIOR CRUSH PROFILES

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

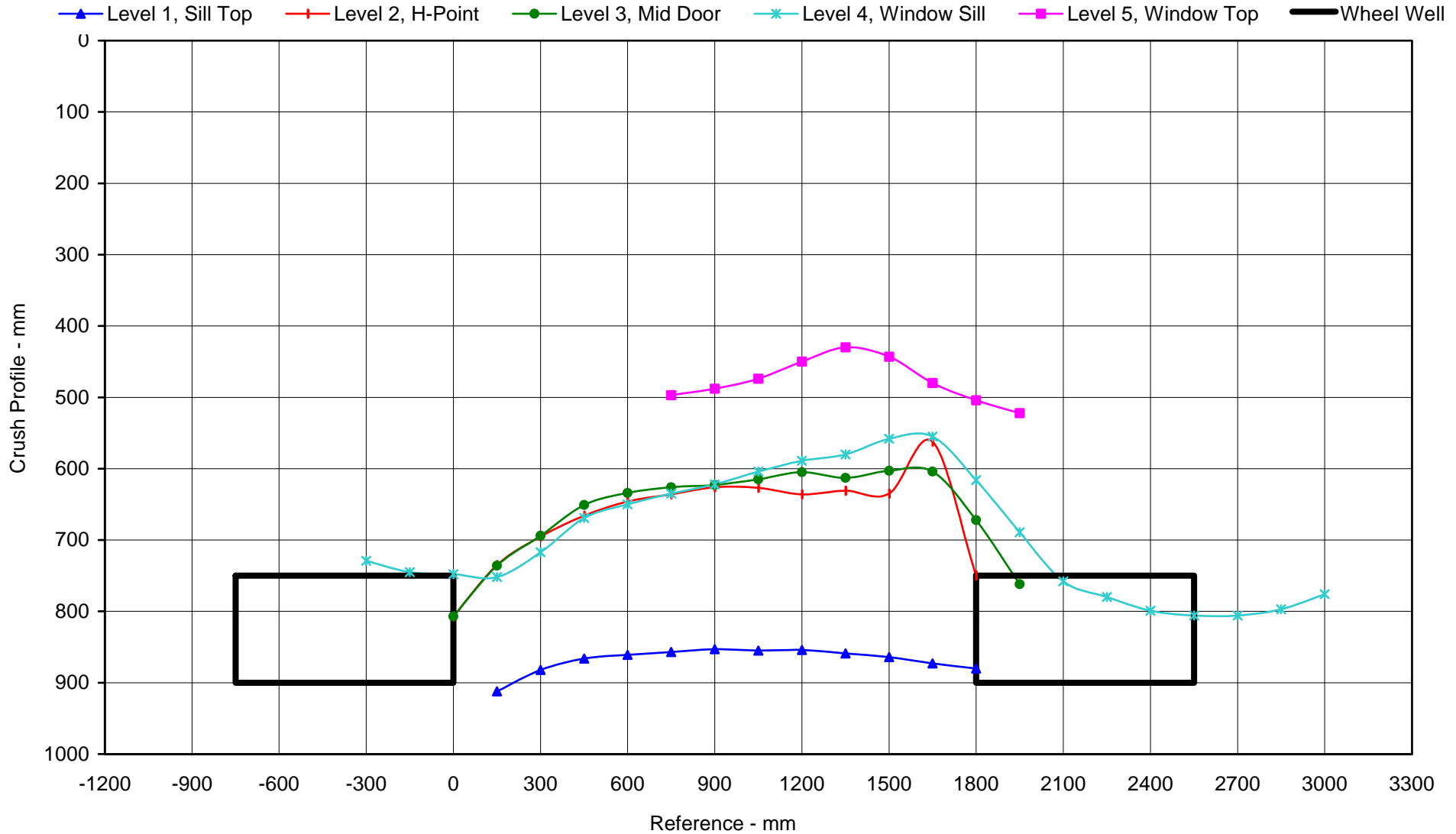
Test Date: 12/22/00

	Pre-Test					Post-Test					Difference				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
-900															
-750															
-600															
-450															
-300				758					729					29	
-150				776					745					31	
0		855	877	793			807	807	748			48	70	45	
150	932	858	871	801		912	735	736	752		20	123	135	49	
300	935	858	873	802		882	695	694	717		53	163	179	85	
450	936	858	873	806		866	666	651	669		70	192	222	137	
600	938	859	873	811		861	646	634	650		77	213	239	161	
750	939	859	872	816	543	857	636	626	635	497	82	223	246	181	46
900	939	858	871	821	558	853	626	623	622	488	86	232	248	199	70
1050	938	858	871	825	563	855	627	615	604	474	83	231	256	221	89
1200	938	858	871	824	561	854	636	605	589	450	84	222	266	235	111
1350	938	859	872	827	559	859	631	613	580	430	79	228	259	247	129
1500	938	859	872	826	557	864	635	603	558	443	74	224	269	268	114
1650	939	860	872	830	554	873	562	604	555	480	66	298	268	275	74
1800	935	859	874	836	549	880	750	672	616	504	55	109	202	220	45
1950			877	840	536			762	689	522			115	151	14
2100				844					758					86	
2250				846					780					66	
2400				844					799					45	
2550				837					806					31	
2700				825					806					19	
2850				808					797					11	
3000				781					776					5	

Pre-Test and Post-Test dimensions are actual distance from centerline of test vehicle.

DATA SHEET NO. 10...(continued)

18



Maximum Crush, Level 1: 86 mm at 900 mm
 Maximum Crush, Level 2: 298 mm at 1650 mm
 Maximum Crush, Level 3: 269 mm at 1500 mm
 Maximum Crush, Level 4: 275 mm at 1650 mm
 Maximum Crush, Level 5: 129 mm at 1350 mm

Test Program: 55/28 km/h 90° Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe
 Test Date: 12/22/00



KAR21003-08

DATA SHEET NO. 11

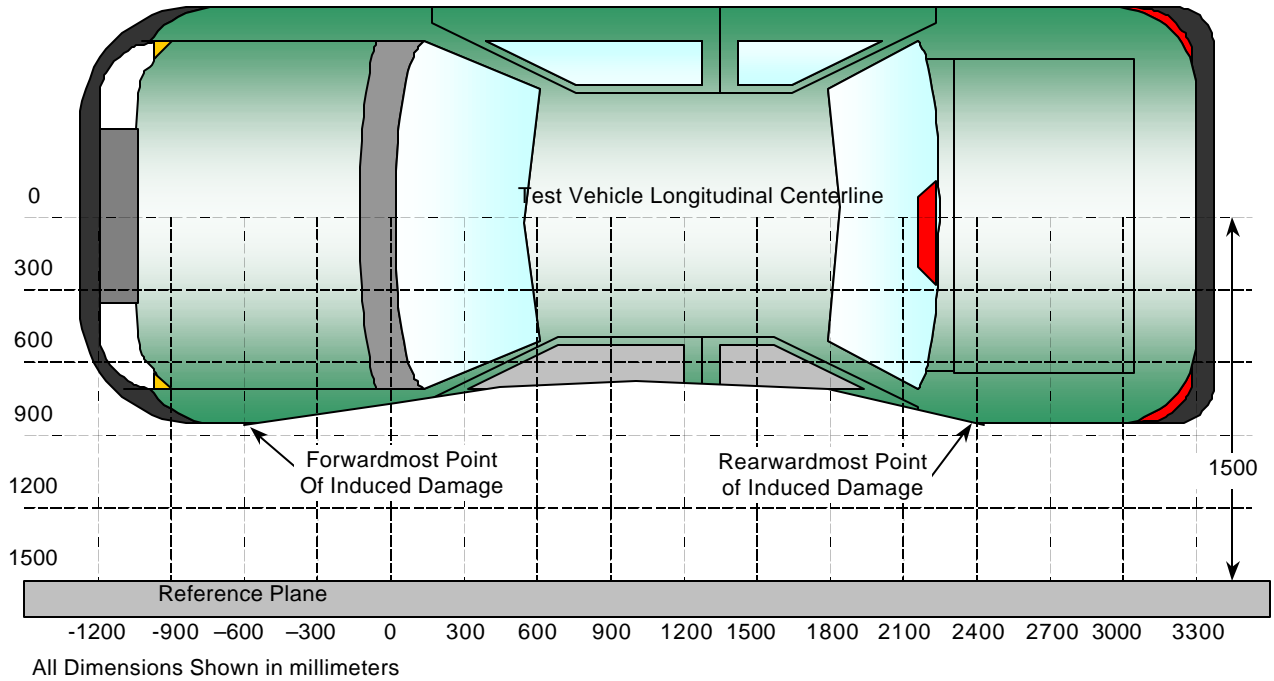
VEHICLE DAMAGE PROFILE DISTANCES

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00



TOP VIEW

Damage Profile Distances

DPD	Distance From Impact Point in mm	Level	Pre-Test (mm)	Post-Test (mm)	Max Static Crush (mm)
1	-300	4	758	729	29
2	300	3	873	694	179
3	1050	3	871	615	256
4	1650	2	860	562	298
5	2250	4	846	780	66
6	3000	4	781	776	5

Pre-Test and Post-Test measurements are distance from vehicle centerline.

DATA SHEET NO. 12

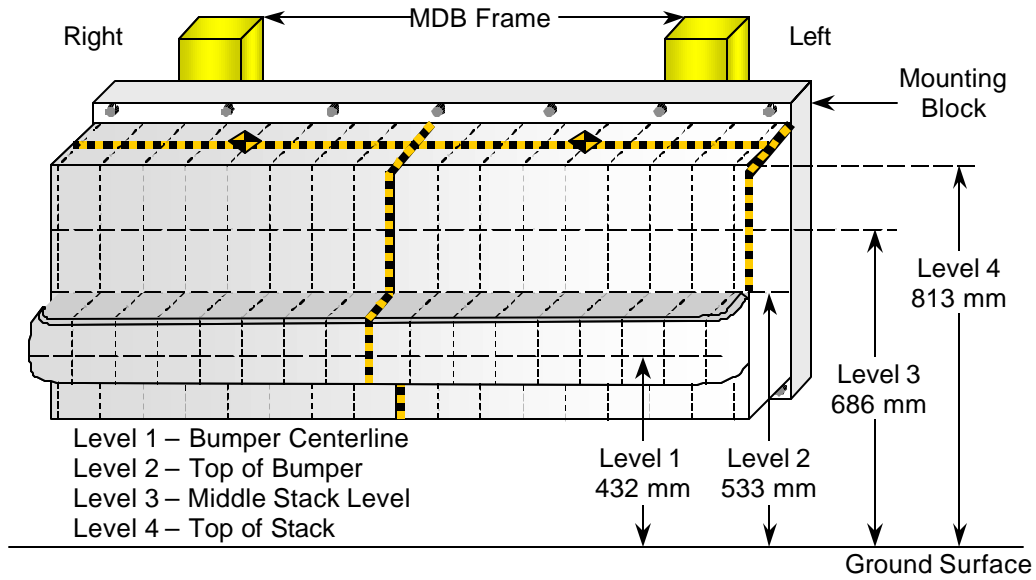
DEFORMABLE BARRIER HONEYCOMB FACE STATIC CRUSH

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00



DEFORMABLE BARRIER STATIC CRUSH

Stack	Distance Right of Center								CL	Distance Left of Center							
	800	700	600	500	400	300	200	100		0	100	200	300	400	500	600	700
1	215	191	173	158	146	128	112	101	98	94	104	118	130	146	167	189	208
2	105	88	81	73	64	56	46	42	43	56	63	73	86	101	129	155	187
3	58	20	16	27	15	8	9	9	11	15	23	40	63	92	125	158	198
4	49	0	-13	-10	-8	-8	-7	-5	1	8	20	34	50	72	106	141	174

All Dimensions in mm

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

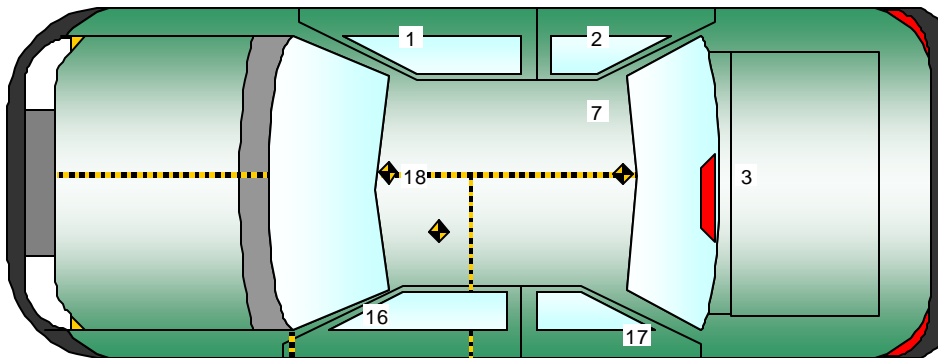
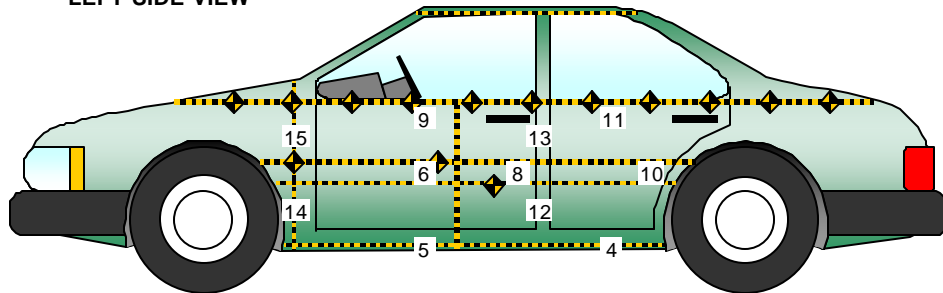
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00

LEFT SIDE VIEW



No.	Location
1	Right Sill at Front Seat
2	Right Sill at Rear Seat
3	Rear Floorpan Above Axle
4	Left Sill at Rear Door
5	Left Sill at Front Door
6	Left Front Door Centerline
7	Right Rear Occupant Compartment
8	Left Front Door Mid-Rear
9	Left Front Door Upper Centerline

No.	Location
10	Left Rear Door Mid-Rear
11	Left Rear Door Upper Centerline
12	Left Lower B-Post
13	Left Middle B-Post
14	Left Lower A-Post
15	Left Middle A-Post
16	Front Seat Track
17	Rear Seat Track or Structure
18	Vehicle CG

DATA SHEET NO. 13

VEHICLE ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00

VEHICLE ACCELEROMETER PEAK DATA AND PRE-TEST LOCATIONS

Loc. No.	Accelerometer Location	Measurements (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	Right Sill at Front Seat	3090	640	265	X	5.8	35.2	-7.8	18.4
					Y	22.4	6.3	-2.1	130.6
					Z	4.3	37.8	-6.7	6.7
					RES	23.4	6.4		
2	Right Sill at Rear Seat	2090	615	250	X	7.3	35.4	-7.4	18.3
					Y	22.6	37.0	-2.6	83.9
					Z	7.0	26.6	-4.3	12.5
					RES	23.4	36.7		
3	Rear Floorpan Above Axle	1110	215	495	X	5.5	30.4	-7.5	17.7
					Y	27.9	35.9	-3.4	107.9
					Z	17.6	7.0	-9.9	11.5
					RES	28.6	35.9		
4	Left Sill at Rear Door	1630	-590	210	Y	33.0	7.6	-3.4	127.5
5	Left Sill at Front Door	2625	-590	190	Y	37.3	11.7	-19.8	17.9
6	Front Door Centerline	2680	-755	660	Y	179.4	6.6	-110.9	23.8
7	Rear Occupant Compartment	2285	490	220	Y	26.1	7.4	-3.5	82.3
8	Front Door Mid-Rear	2090	-750	730	Y	128.5	10.2	-72.4	28.5
9	Front Door Upper Centerline	2730	-740	795	Y	165.3	17.0	-70.6	28.4
10	Rear Door Mid-Rear	1255	-710	875	Y	31.0	10.8	-9.0	39.6
11	Rear Door Upper Centerline	1500	-725	935	Y	80.2	18.6	-43.5	28.7
12	B-Post Lower	2050	-740	670	Y	184.5	4.0	-124.5	22.8
13	B-Post Middle	1930	-720	775	Y	153.8	4.0	-90.7	26.6
14	A-Post Lower	3300	-780	470	Y	93.7	3.0	-62.3	17.7
15	A-Post Middle	3300	-760	705	Y	47.2	11.1	-10.9	16.5
16	Front Seat Track	2840	-590	260	Y	39.9	10.1	-1.2	0.0
17	Rear Seat Structure				Y				
18	Vehicle CG	2085	0	350	X	1.7	82.0	-10.2	11.6
					Y	21.7	18.9	-2.3	127.0
					Z	10.0	7.8	-10.8	4.0
					RES	23.2	19.0		

* Channels failed, check plot for failure times

** Not installed

DATA SHEET NO. 14
MDB ACCELEROMETER LOCATION AND DATA SUMMARY

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe
 Test Program: 55/28 km/h 90° Side Impact NCAP

NHTSA No.: M10312
 Test Date: 12/22/00

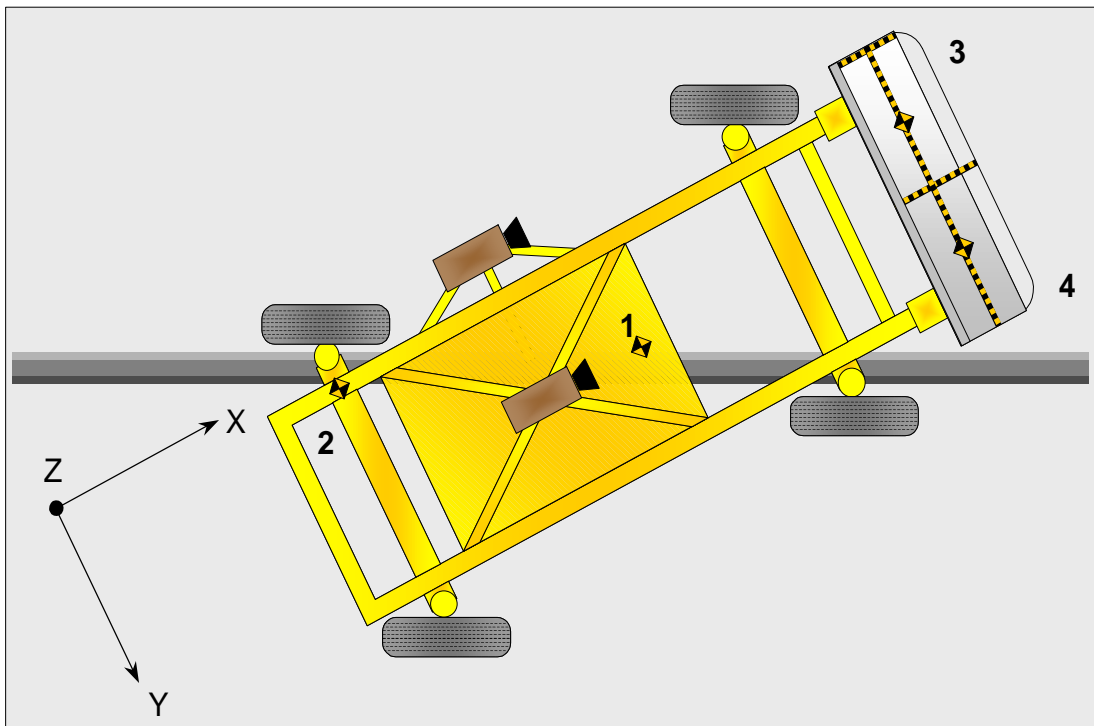
MDB ACCELEROMETER PEAK DATA AND LOCATIONS

Loc. No.	Accelerometer Location	Measurements (mm)			Peak Values (G's)				
		X	Y	Z	Axis	Max	Time	Min	Time
1	MDB CG	-1195	0	430	X	2.8	100.3	-21.5	36.4
					Y	2.3	78.9	-6.9	42.0
					Z	11.9	33.4	-13.6	72.8
					RES	23.0	40.1		
2	MDB Rear	-2642	-593	608	X	3.0	103.9	-22.3	35.3
					Y	2.8	133.5	-7.2	22.6

Reference Points X - MDB Front Axle Y - MDB Centerline Z - Ground Plane

MDB BUMPER CONTACT SWITCH DATA

Loc. No.	Contact Switch Location	Units	Peak and 50% Crossing Point			
			Max	Time	50%	Time
3	MDB Left Bumper (T=0)	% F.S	100.0	0.0	0.0	0.0
4	MDB Right Bumper	% F.S.	101.2	72.6	50.6	-0.7



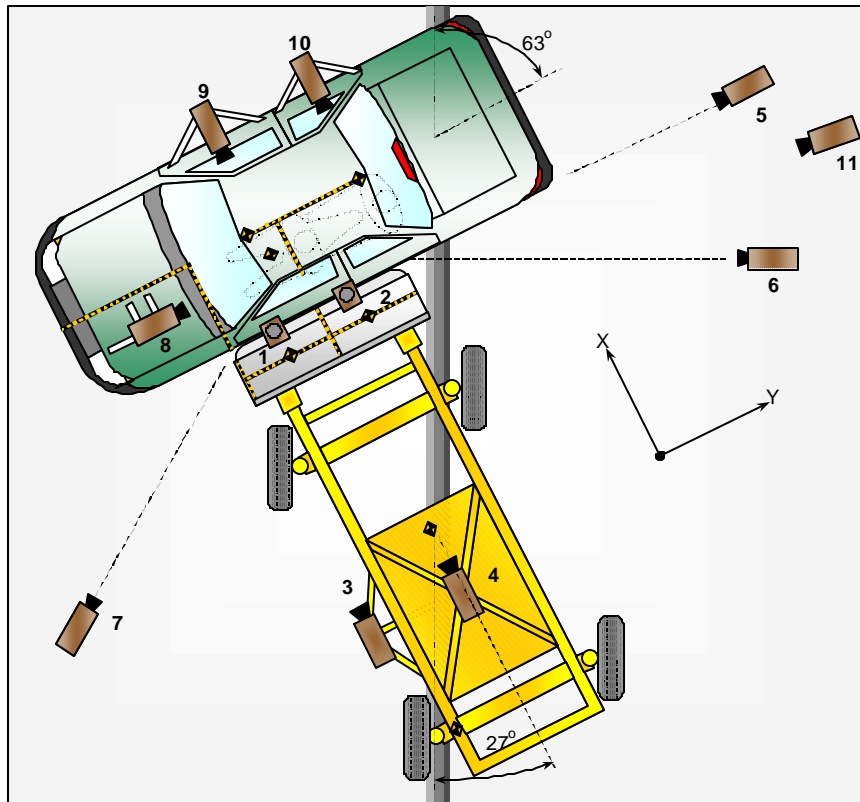
DATA SHEET NO. 15
HIGH SPEED CAMERA LOCATIONS AND DATA

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00



No.	Camera View	Location (mm)			Angle (deg.)	Lens (mm)	Film Speed (fr./sec.)
		X	Y	Z			
1	Overhead Overall	1652	-762	5486	-86	10	911
2	Overhead Close-up	-762	0	5791	-82	24	1007
3	MDB Onboard, Impact Point Close-Up	-2134	0	1143	-7	13	812
4	MDB Onboard, Centerline of Impact	-3048	-1652	1829	-11	13	982
5	Right Side, Ground Level, Overall	9144	-18288	2210	-1	25	1060
6	Right Side, Ground Level, Close-up	0	-18898	1524	0	60	1000
7	Left Side, Ground Level, Close-up	2362	-5410	1448	-6	13	1020
8	Vehicle Onboard Front SID, Front	-320	640	1260	-11	19	1006
9	Vehicle Onboard Front SID, Side	2134	0	990	-6	10	1011
10	Vehicle Onboard Rear SID, Side	2515	-681	1050	-5	10	1021
11	Real Time Coverage	3072	20040	2350	n/a	n/a	16fps

DATA SHEET NO. 16

FMVSS 301 FUEL SYSTEM INTEGRITY POST IMPACT DATA

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

Test Date: 12/22/00

Test Time: 10:38 AM

Temperature at Time of Impact: 18.8 °C

STODDARD SOLVENT SPILLAGE MEASUREMENTS

- A. From impact until vehicle motion ceases: 0.0 oz.
(Maximum Allowable = 1 ounce)
- B. For the 5 minute period after motion ceases: 0.0 oz.
(Maximum Allowable = 5 ounces)
- C. For the following 25 minutes: 0.0 oz.
(Maximum Allowable = 1 oz./minute)
- D. Spillage Details: No leakage occurred

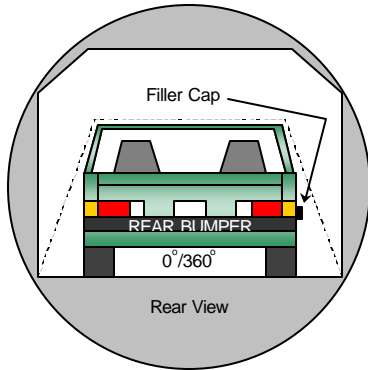
DATA SHEET NO. 17
FMVSS 301 STATIC ROLLOVER DATA SHEET

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

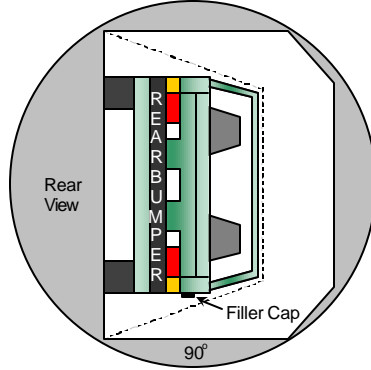
NHTSA No.: M10312

Test Program: 55/28 km/h 90° Side Impact NCAP

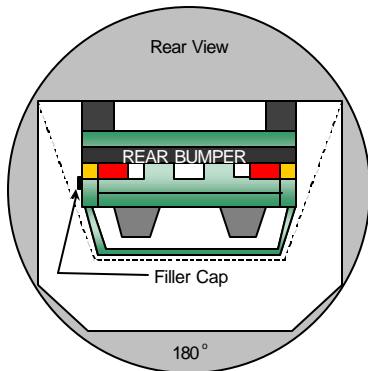
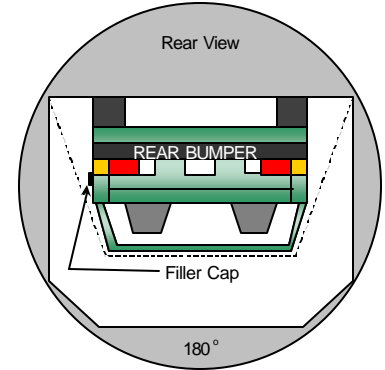
Test Date: 12/22/00



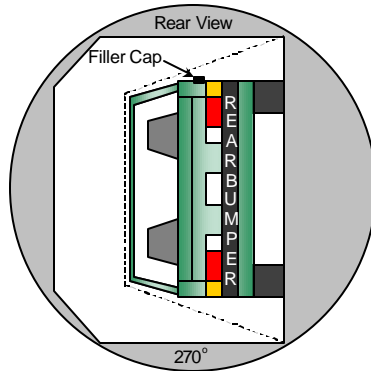
0° TO 90°



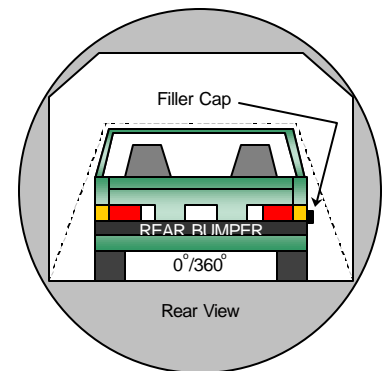
90° TO 180°



180° TO 270°



270° TO 360°



1. The specified fixture rollover rate for each 90° of rotation is 60 to 120 seconds.
2. The position hold time at each position is 300 seconds (minimum).
3. Details of Stoddard Solvent spillage locations:

No solvent leakage occurred during static rollover testing.

Rollover Test Phase	Rotation Time (sec.)	Hold Time (sec.)	Spillage (oz.)
0° TO 90°	82	300	0.0
90° TO 180°	81	300	0.0
180° TO 270°	78	300	0.0
270° TO 360°	82	300	0.0

**APPENDIX A
PHOTOGRAPHS**

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Figure A-1: Left Front, as Received



Figure A-2: Right Rear, as Received

E GENESIS
LEDESER
PCO
MITSUBISHI

MADE IN U.S.A. DATE SEP. 2000
MFD BY MITSUBISHI MOTOR MFG. OF AMERICA, INC.

GVWR 4061 LBS GAWR 2171 LBS GAWR 1894 LBS
1842 KG FR. 985 KG RR. 859 KG

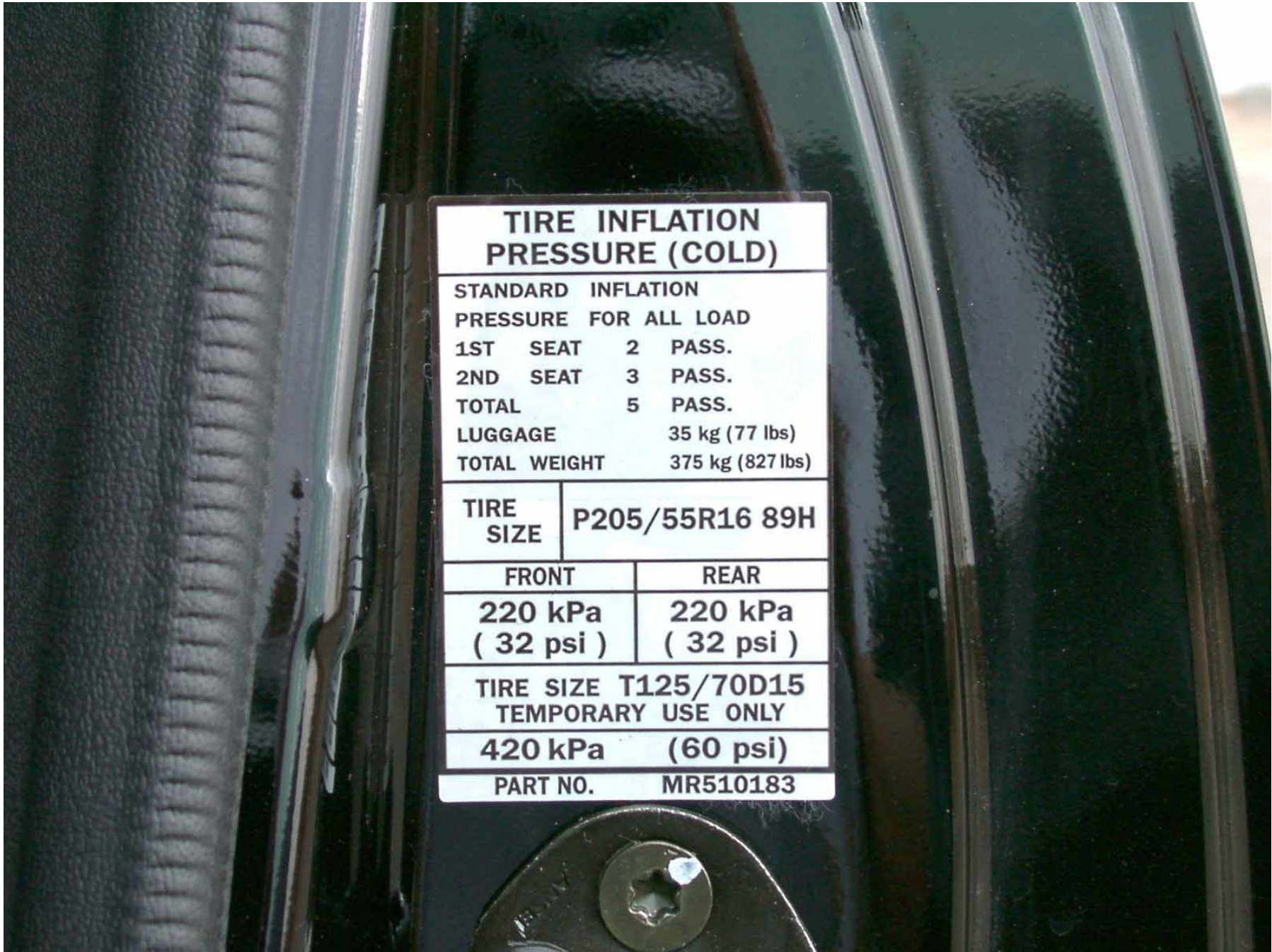
THIS VEHICLE CONFORMS TO ALL APPLICABLE
FEDERAL MOTOR VEHICLE SAFETY, BUMPER, AND
THEFT PREVENTION STANDARDS IN EFFECT ON
THE DATE OF MANUFACTURE SHOWN ABOVE.

4 B 3 A G 4 2 G 3 1 E 0 6 5 8 1 8



MDH 091621
VEHICLE TYPE: PASSENGER CAR MU900272

Figure A-3: Vehicle Certification Label



**TIRE INFLATION
PRESSURE (COLD)**

**STANDARD INFLATION
PRESSURE FOR ALL LOAD**

1ST SEAT 2 PASS.
2ND SEAT 3 PASS.
TOTAL 5 PASS.
LUGGAGE 35 kg (77 lbs)
TOTAL WEIGHT 375 kg (827 lbs)

TIRE SIZE P205/55R16 89H

FRONT	REAR
220 kPa (32 psi)	220 kPa (32 psi)

TIRE SIZE T125/70D15
TEMPORARY USE ONLY
420 kPa (60 psi)

PART NO. MR510183

Figure A-4: Vehicle Tire Label



Figure A-5: Front View, Pre-Test



Figure A-6: Front View, Post-Test



Figure A-7: Rear View, Pre-Test



Figure A-8: Rear View, Post-Test



Figure A-9: Left (Impacted) Side View, Pre-Test



Figure A-10: Left (Impacted) Side View, Post-Test



Figure A-11: Overhead Close-up View at Impact Position, Pre-Test



Figure A-12: Overhead Overall View, Pre-Test



Figure A-13: Overhead Overall View, Post-Test

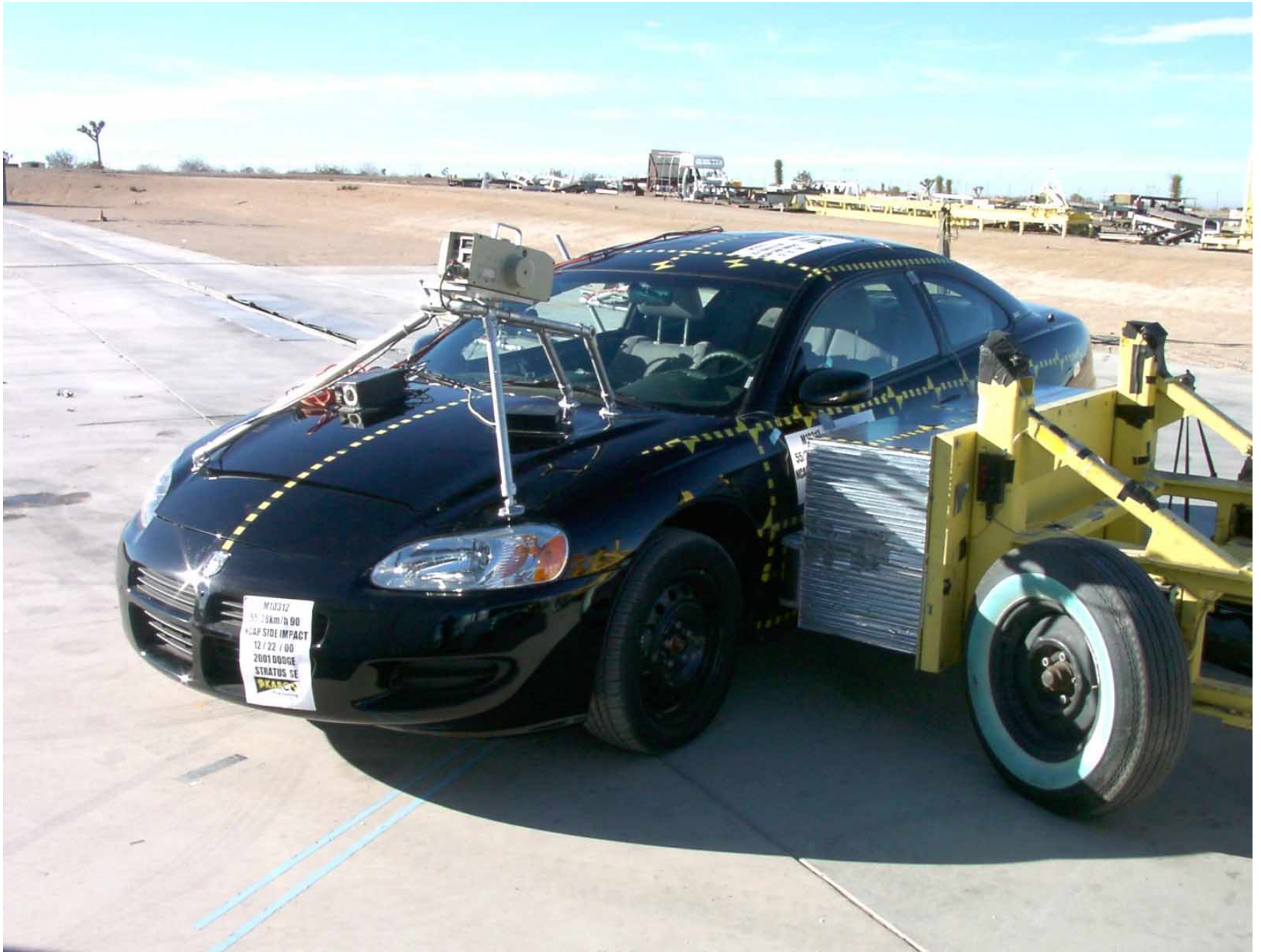


Figure A-14: MDB Left Side View at Impact Position, Pre-Test



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Figure A-15: MDB Right Side View at Impact Position, Pre-Test



Figure A-16: Impact Point Target Close-up, Pre-Test

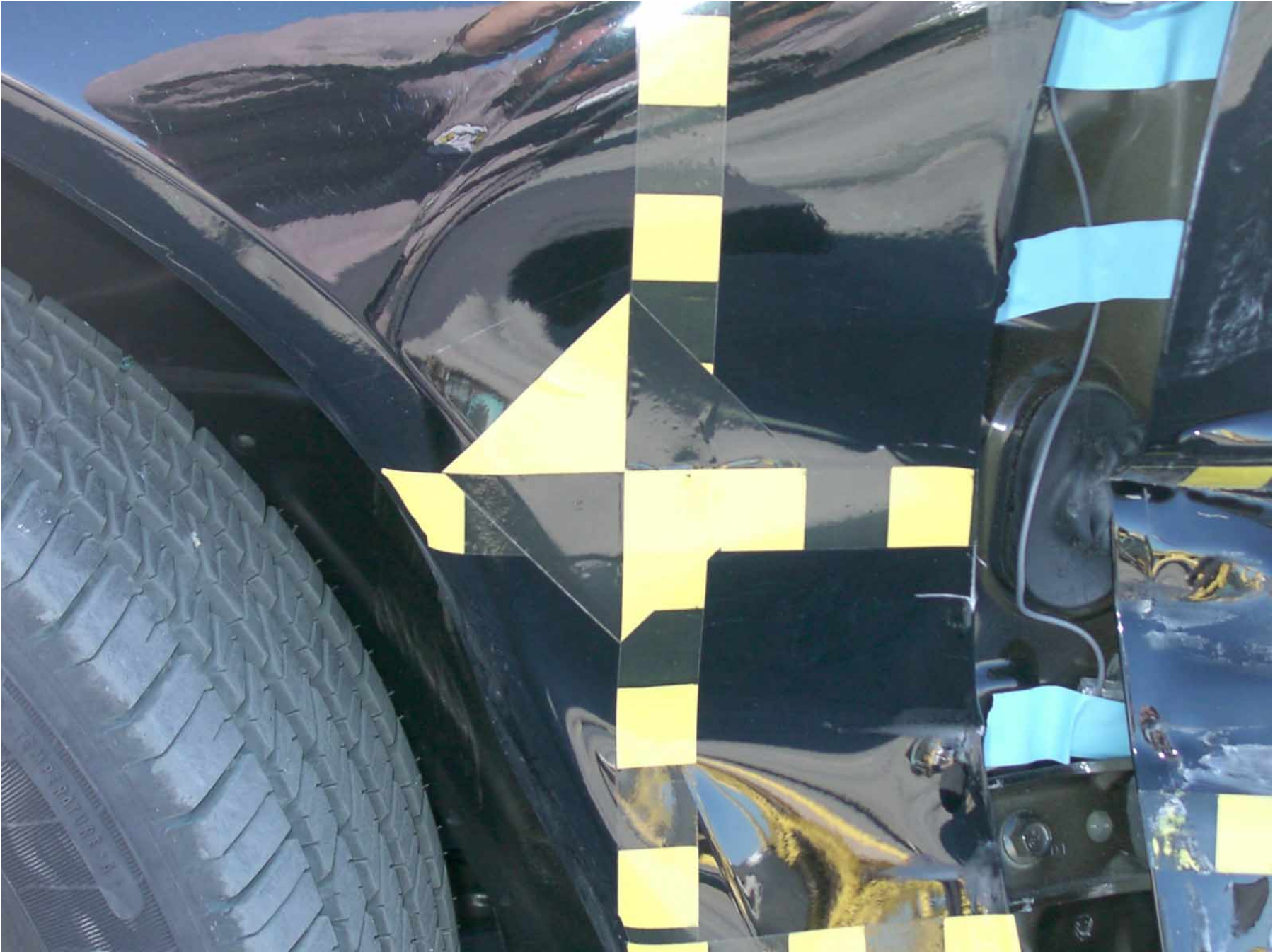


Figure A-17: Impact Point Target Close-up, Post-Test



Figure A-18: Driver Dummy Left Side with Door Open, Pre-Test



Figure A-19: Driver Dummy Left Side, Pre-test



Figure A-20: Driver Dummy Left Side, Post-Test



Figure A-21: Driver Dummy Clearance, Pre-Test



Figure A-22: Driver Dummy Clearance, Post-Test



Figure A-23: Driver Dummy Inside View, Pre-Test



Figure A-24: Driver Dummy Inside View, Post-Test



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Figure A-25: Driver Door Inside View, Pre-Test



Figure A-26: Driver Dummy Contact Points Inside View, Post-Test



Figure A-27: Passenger Dummy Left Side with Door Open, Pre-Test



Figure A-28: Passenger Dummy Left Side, Pre-Test



Figure A-29: Passenger Dummy Left Side, Post-Test



Figure A-30: Passenger Dummy Clearance, Pre-Test



Figure A-31: Passenger Dummy Clearance, Post-Test



Figure A-32: Passenger Dummy Inside View, Pre-Test



Figure A-33: Passenger Dummy Inside View, Post-Test



Figure A-34: Passenger Door Inside View, Pre-Test



Figure A-35: Passenger Dummy Contact Points Inside View, Post-Test

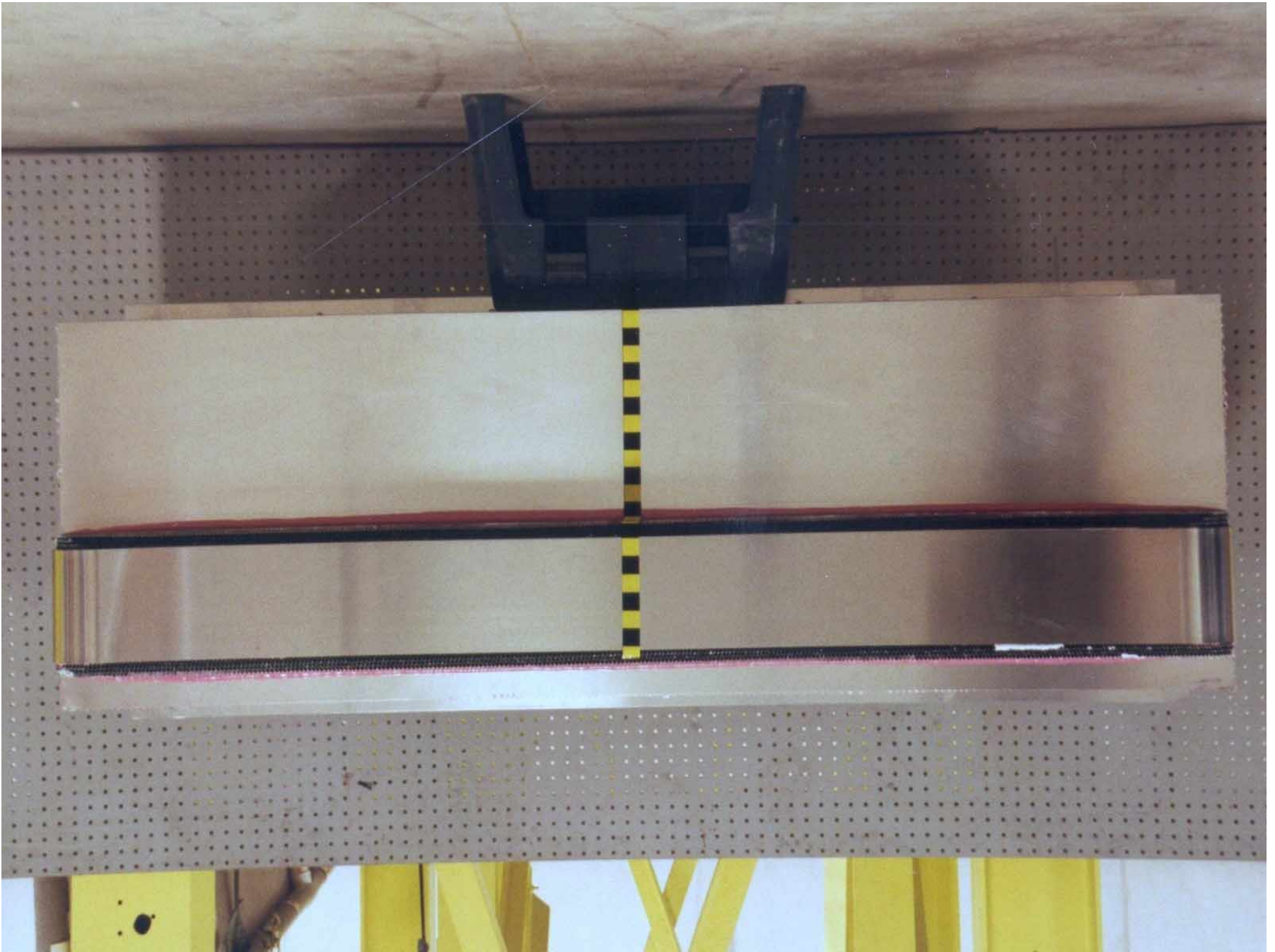


Figure A-36: Front View of Deformable Barrier, Pre-Test



Figure A-37: Front View of Deformable Barrier, Post-Test

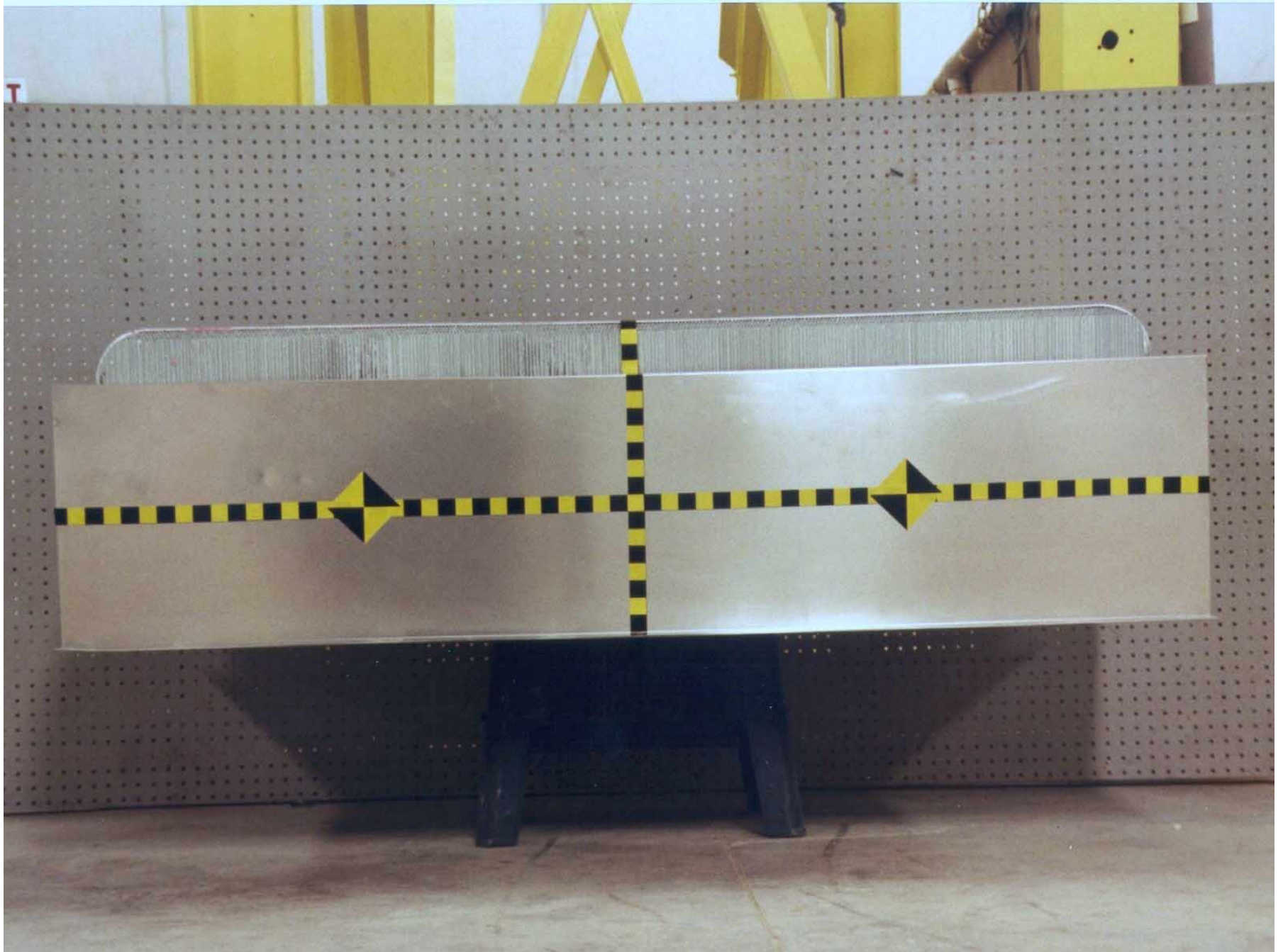


Figure A-38: Top View of Deformable Barrier, Pre-Test



Figure A-39: Top View of Deformable Barrier, Post-Test

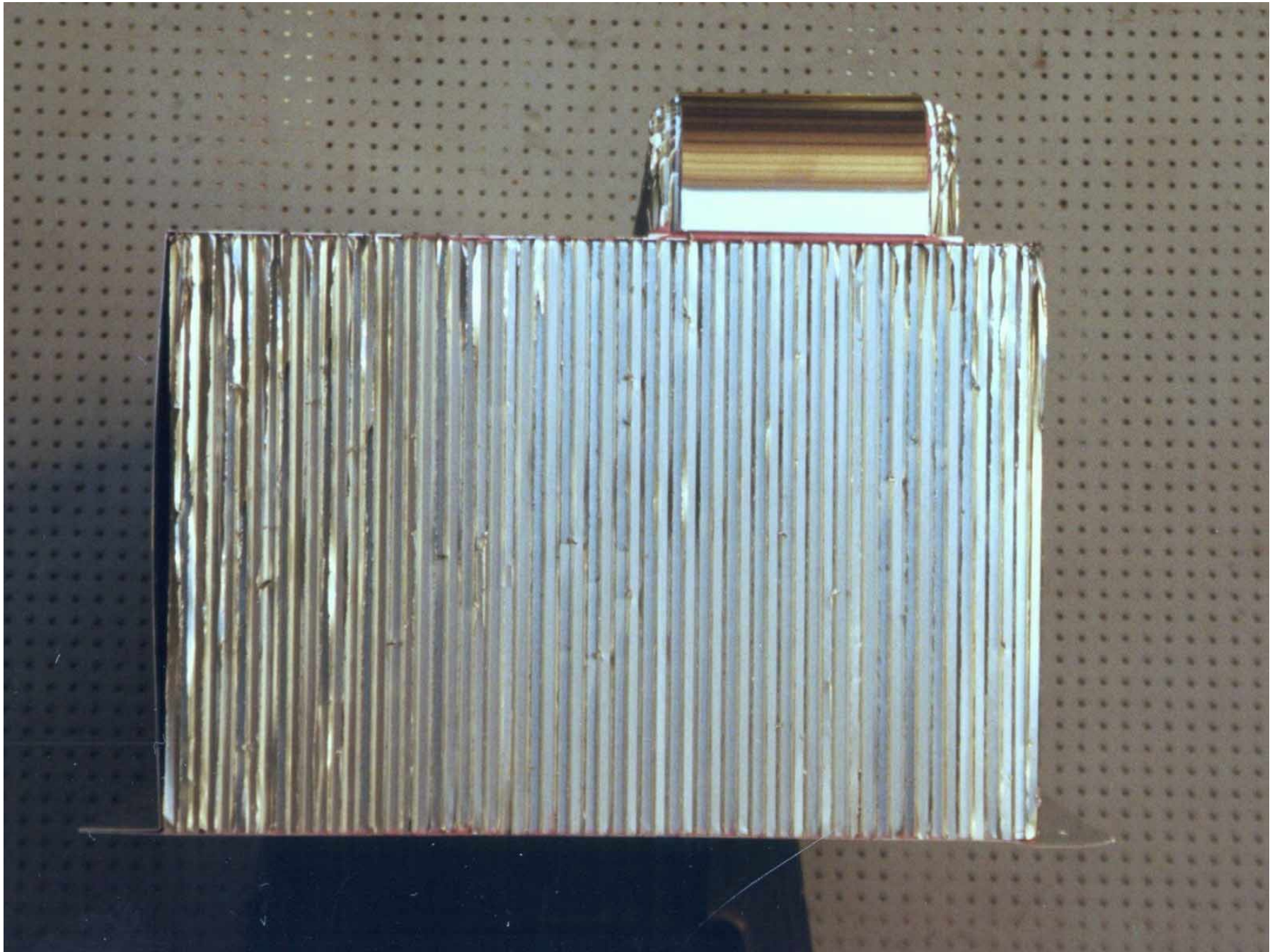


Figure A-40: Right Side View of Deformable Barrier, Pre-Test



Figure A-41: Right Side View of Deformable Barrier, Post-Test



Figure A-42: Left Side View of Deformable Barrier, Pre-Test

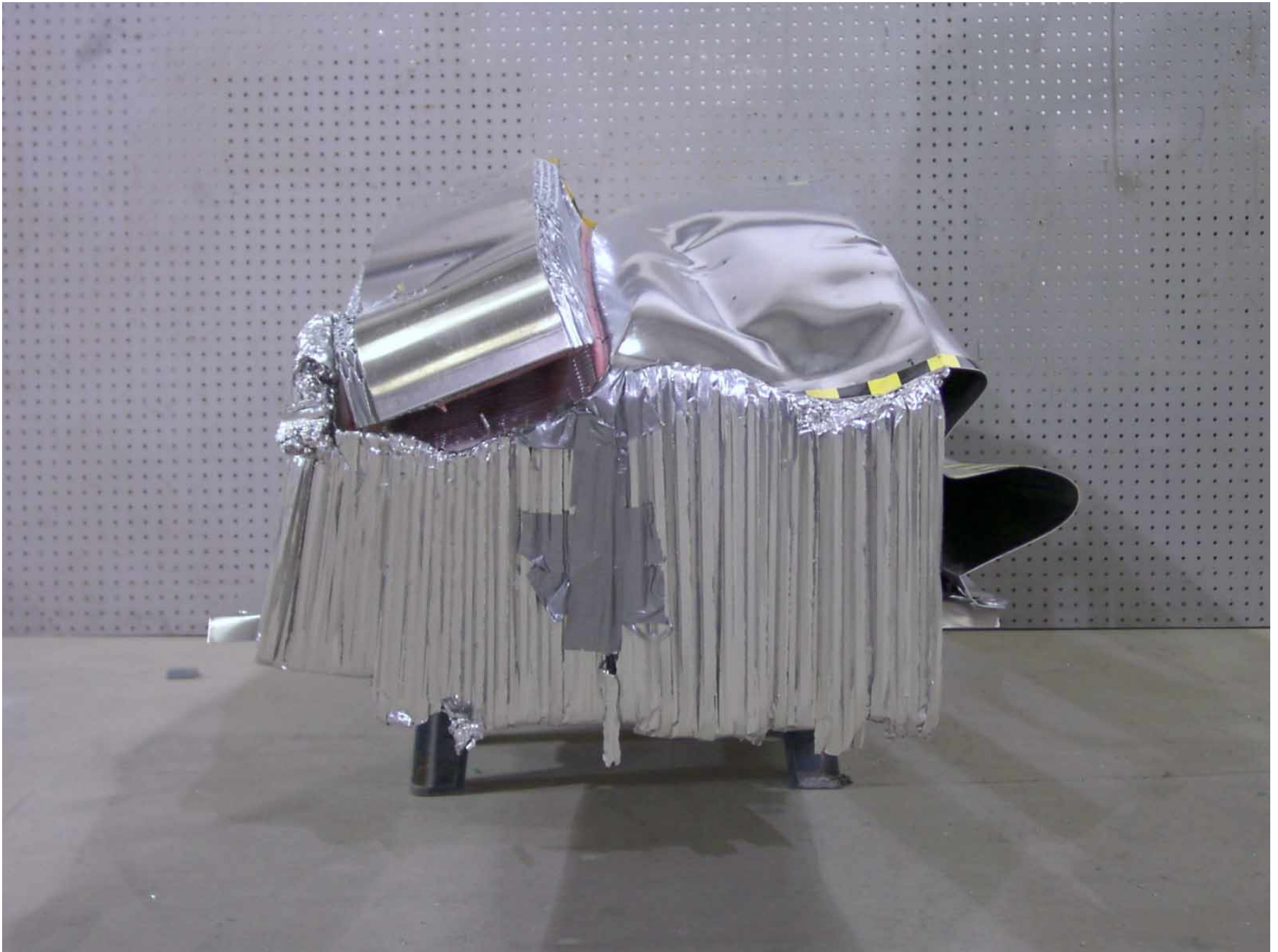


Figure A-43: Left Side View of Deformable Barrier, Post-Test



Figure A-44: Vehicle on Rollover Device, Top View



Figure A-45: Vehicle During Impact

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APPENDIX B
SID, VEHICLE, AND MDB RESPONSE DATA

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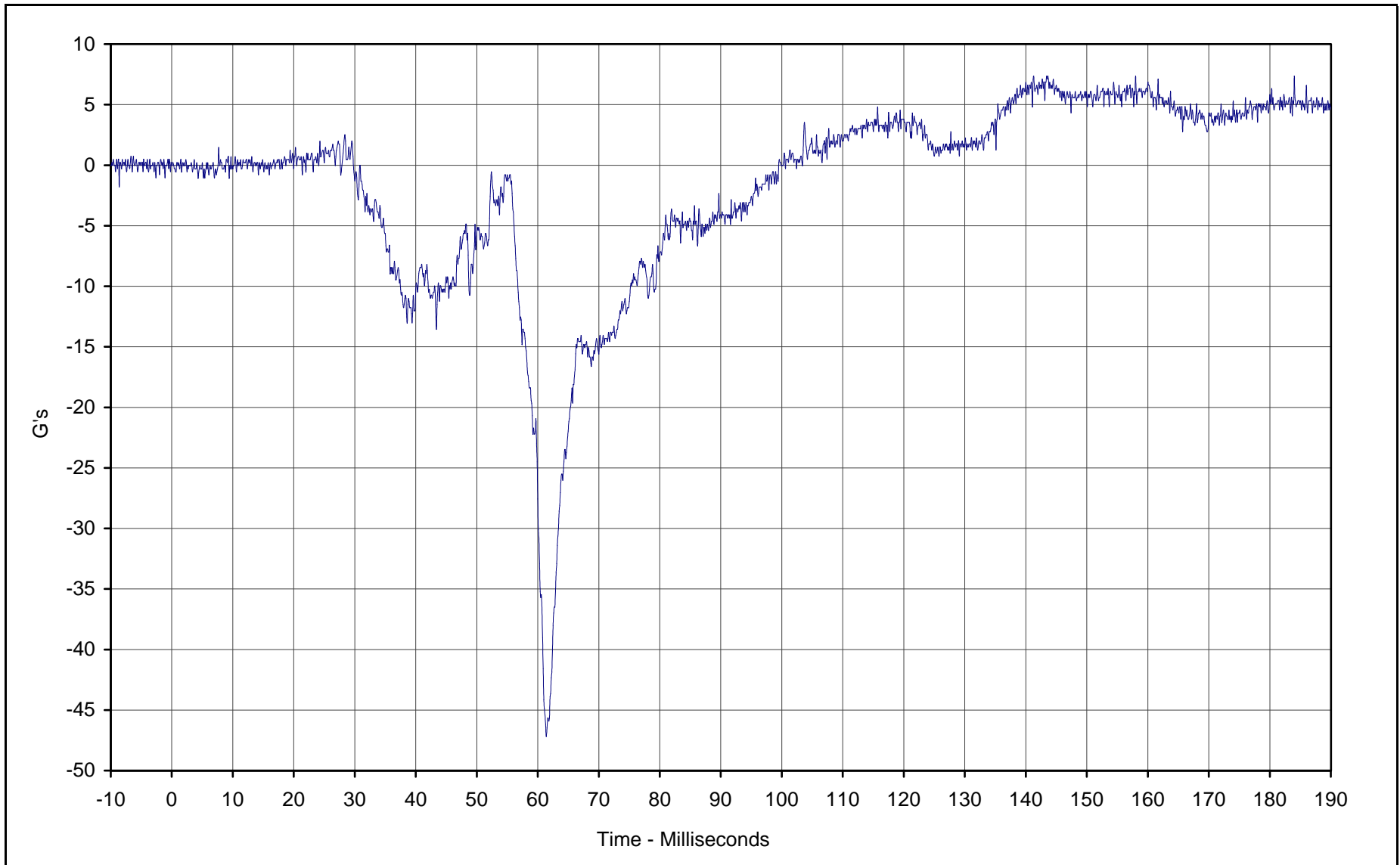
LIST OF DATA PLOTS, MDB

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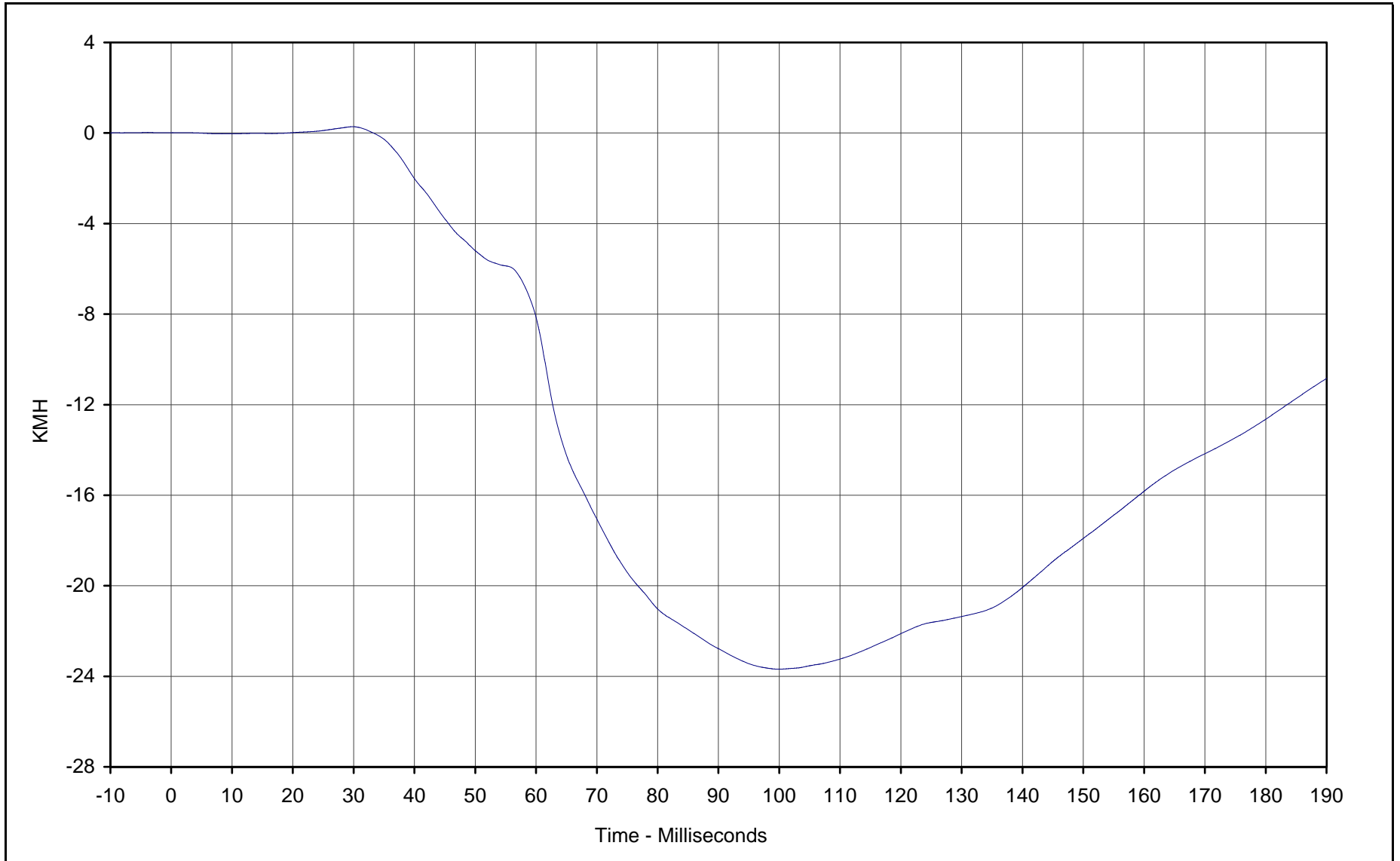
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Minimum Value: -47.2 at 61.4 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-001

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Driver Head CG X Velocity

Maximum Value: 0.3 at 29.8 Milliseconds

Minimum Value: -23.7 at 99.9 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-001

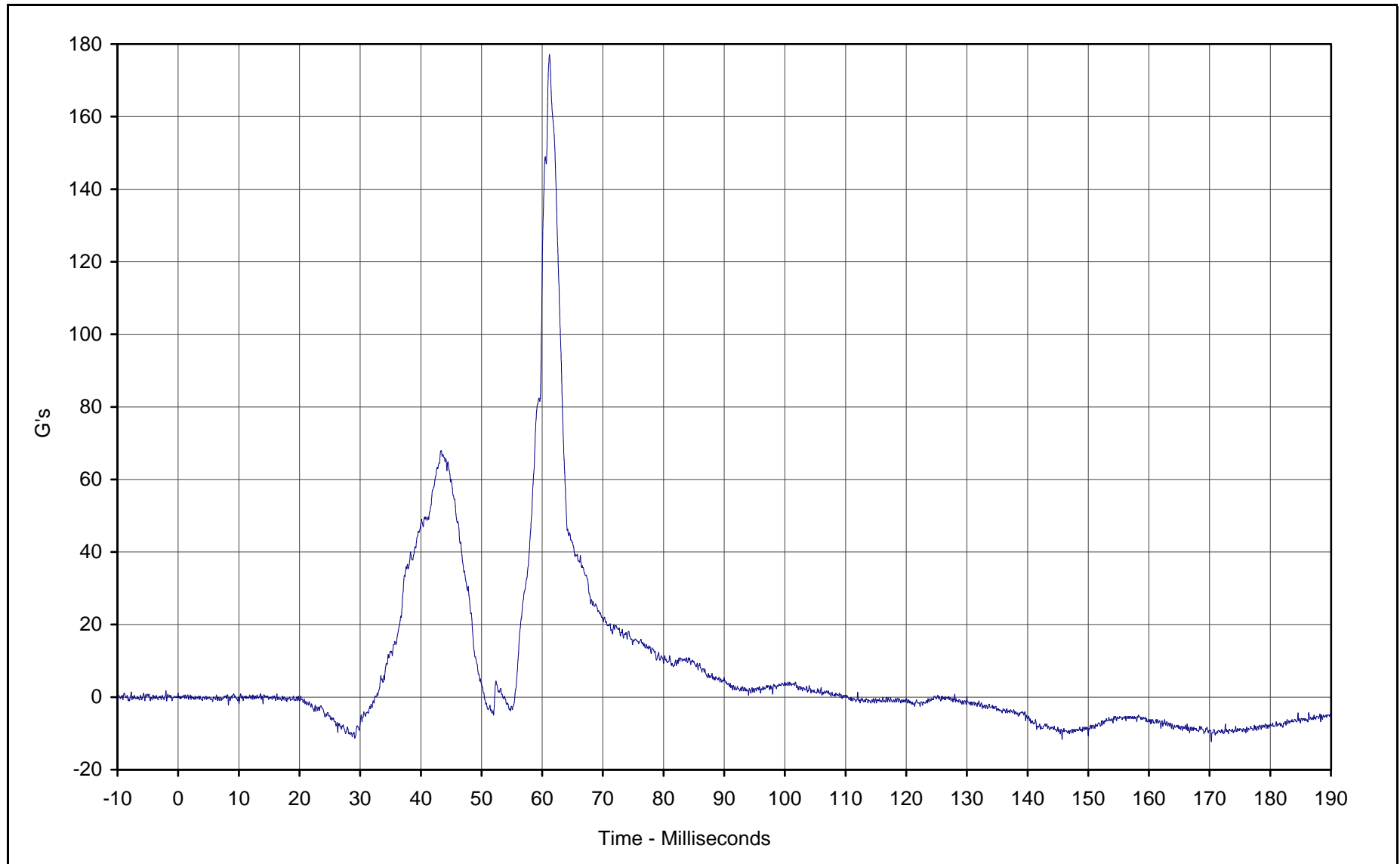
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Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-3

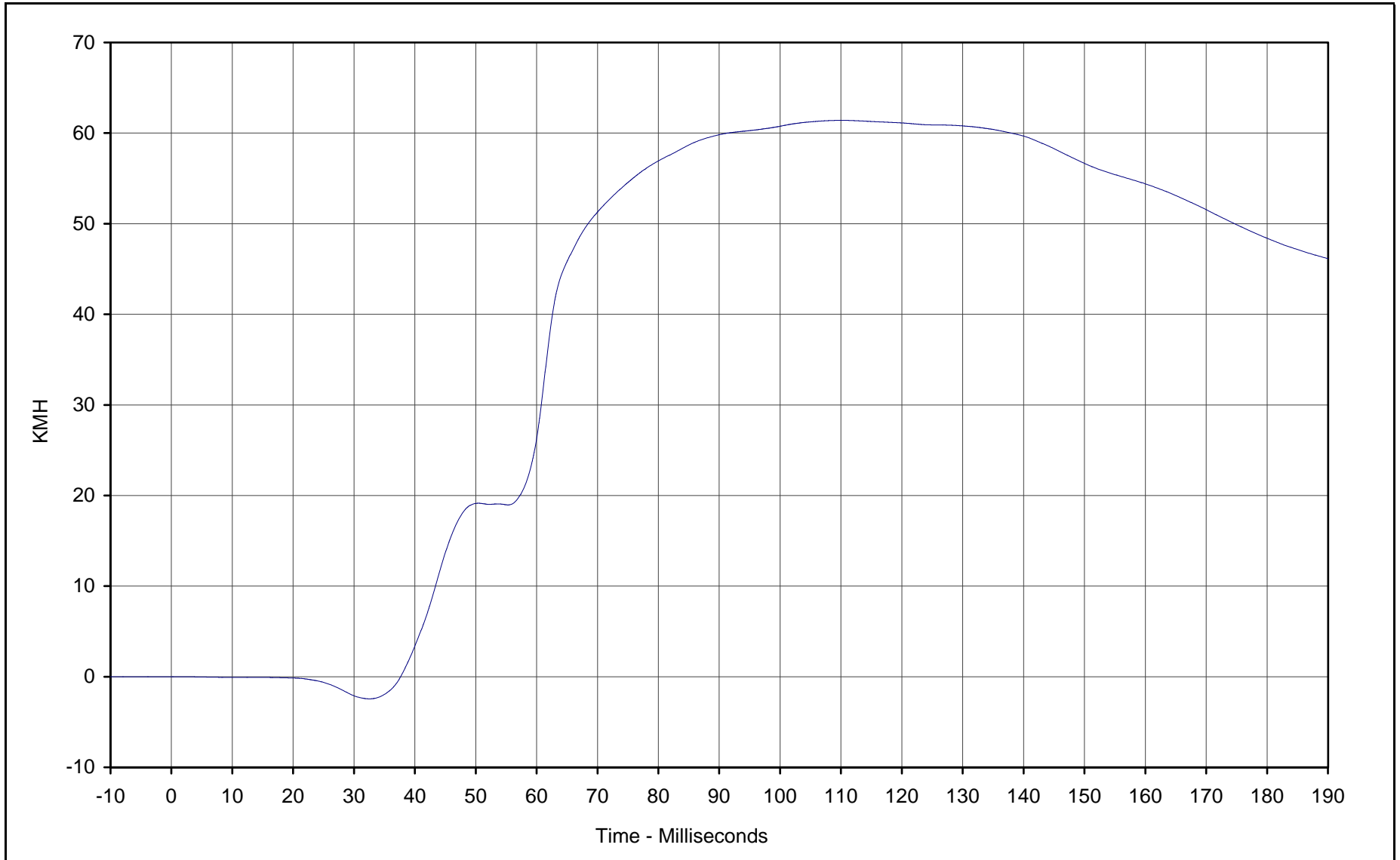


Curve Description: Driver Head CG Y
Maximum Value: 177.1 at 61.2 Milliseconds
Minimum Value: -12.3 at 170.3 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-002

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Driver Head CG Y Velocity

Maximum Value: 61.4 at 110.2 Milliseconds

Minimum Value: -2.4 at 32.6 Milliseconds

SAE Filter Class: 180

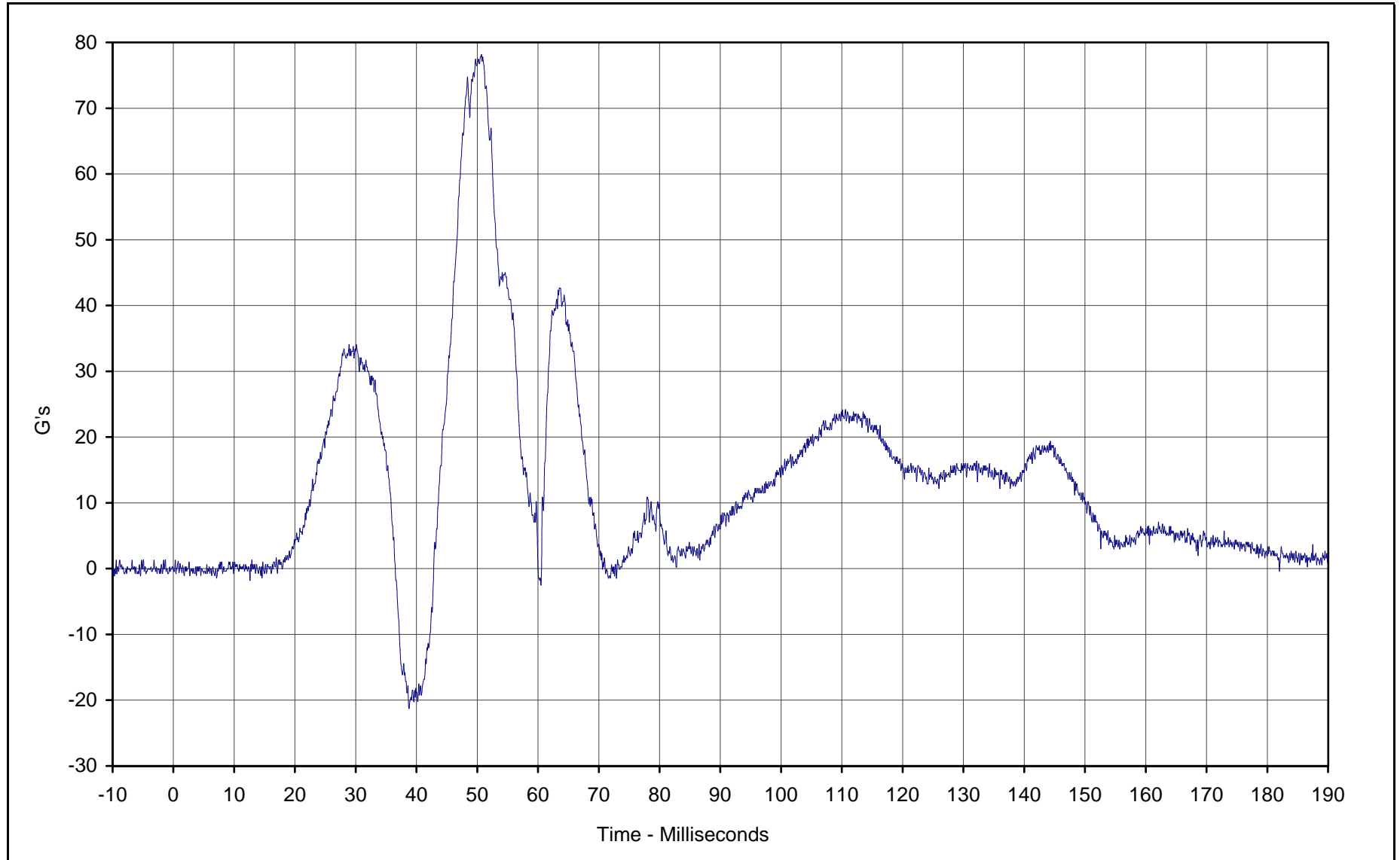
Date of Test: 12/22/00

Curve Number: IN1-002

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

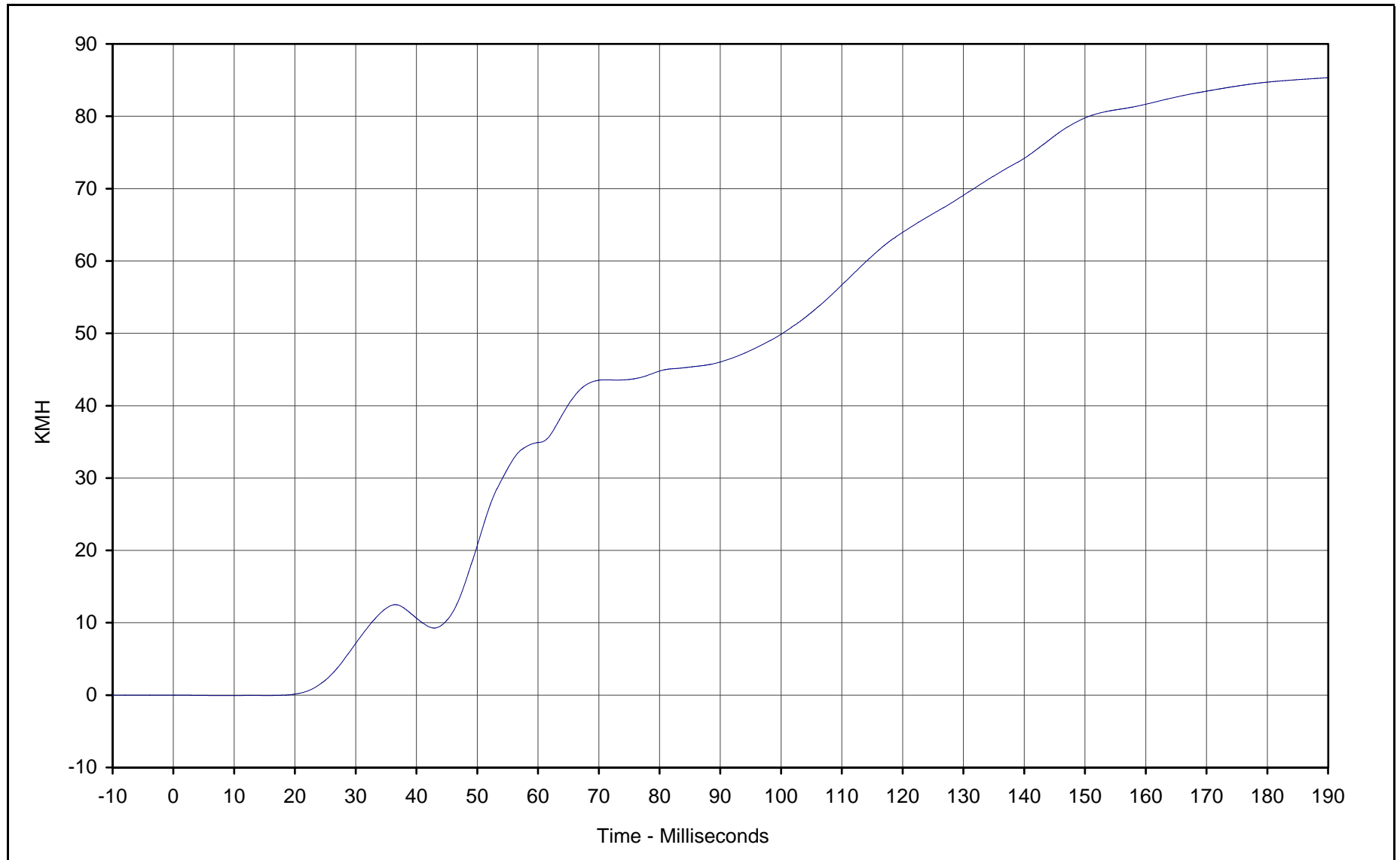




Curve Description: Driver Head CG Z
 Maximum Value: 78.2 at 50.7 Milliseconds
 Minimum Value: -21.3 at 38.8 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: FIL-003

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe





Curve Description: Driver Head CG Z Velocity

Maximum Value: 85.3 at 189.9 Milliseconds

Minimum Value: -0.1 at 7.8 Milliseconds

SAE Filter Class: 180

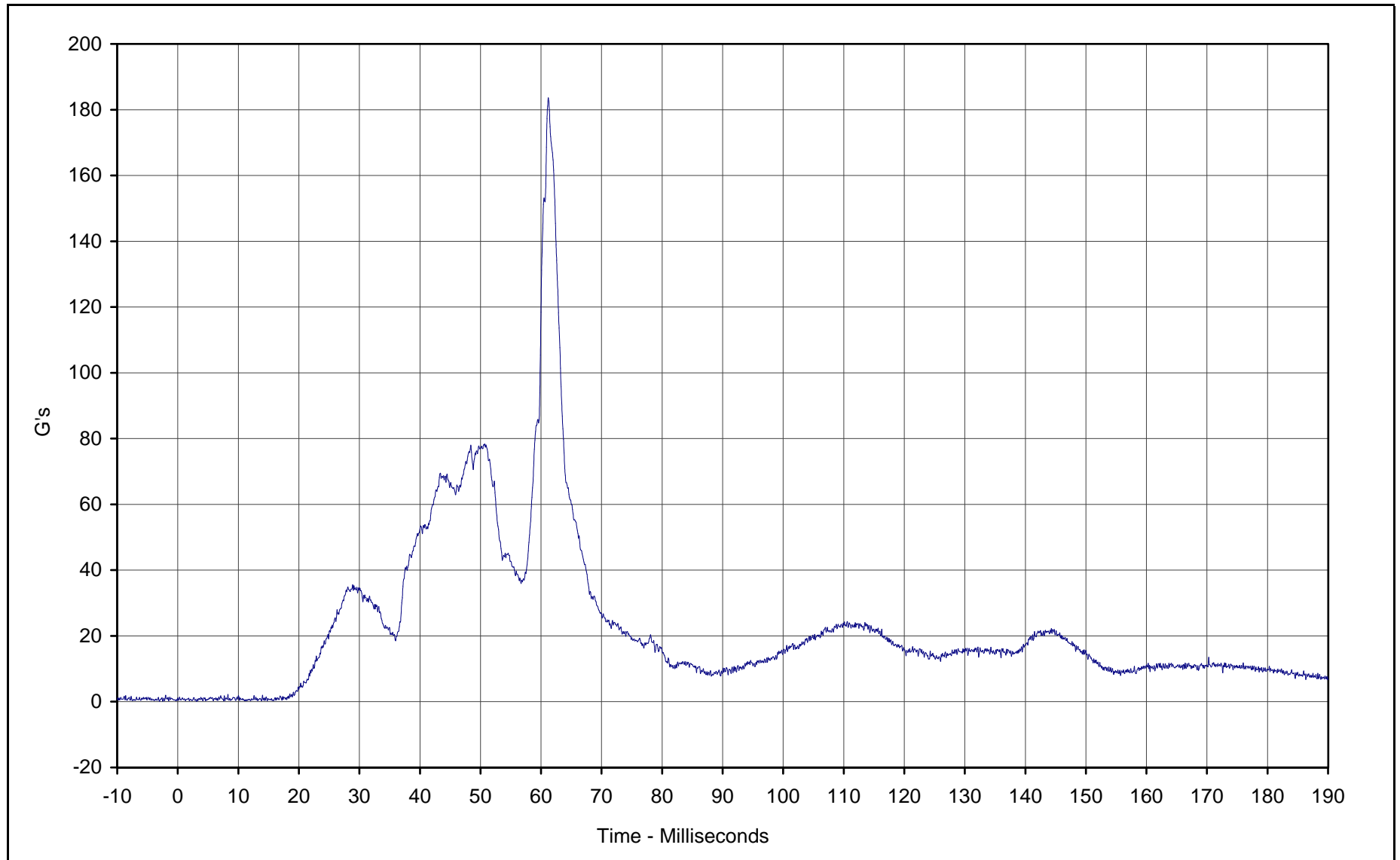
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Curve Number: IN1-003

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



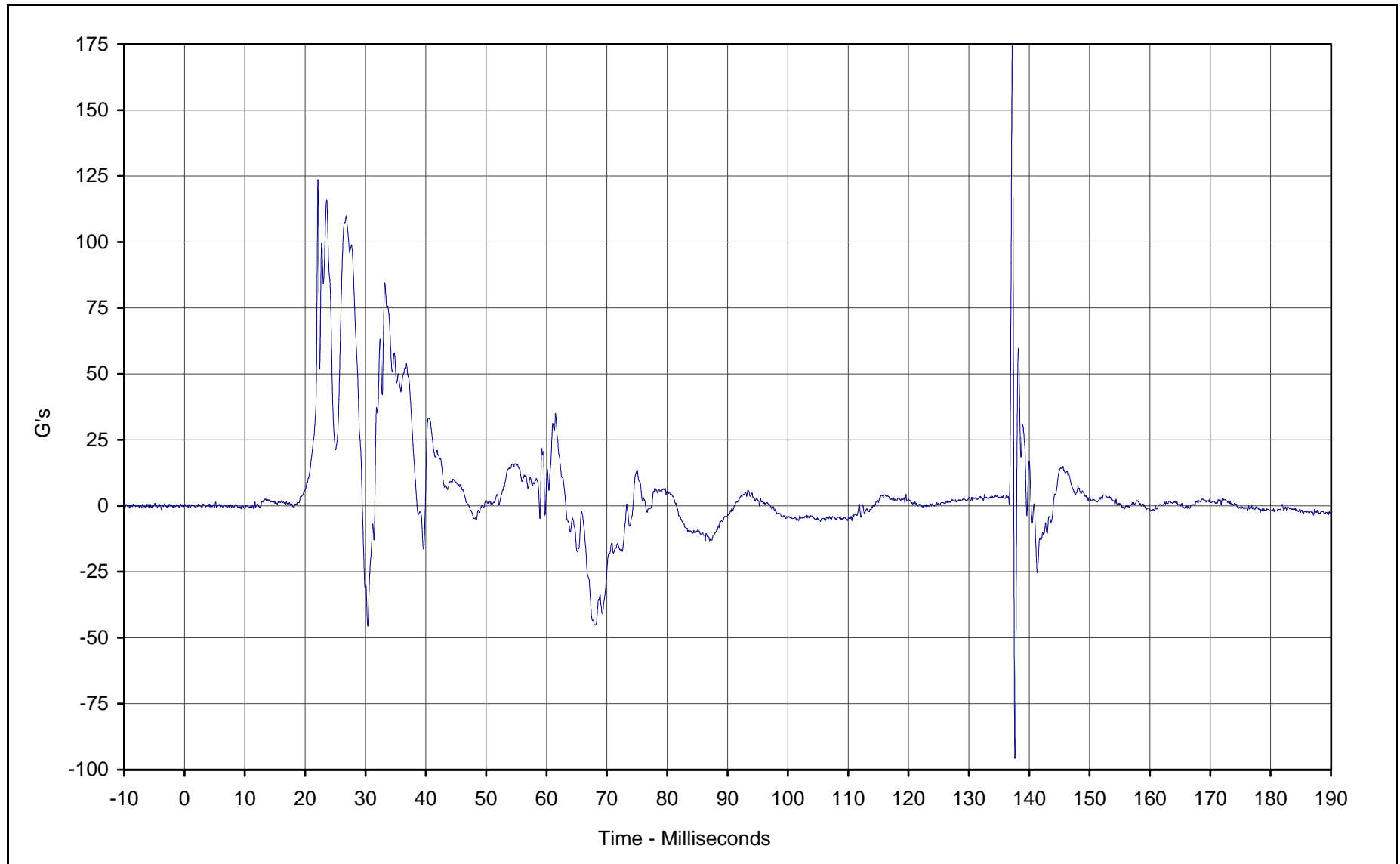


Curve Description: Driver Head CG Resultant
 Maximum Value: 183.6 at 61.2 Milliseconds
 Minimum Value: 0.1 at 3.1 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: RES-001

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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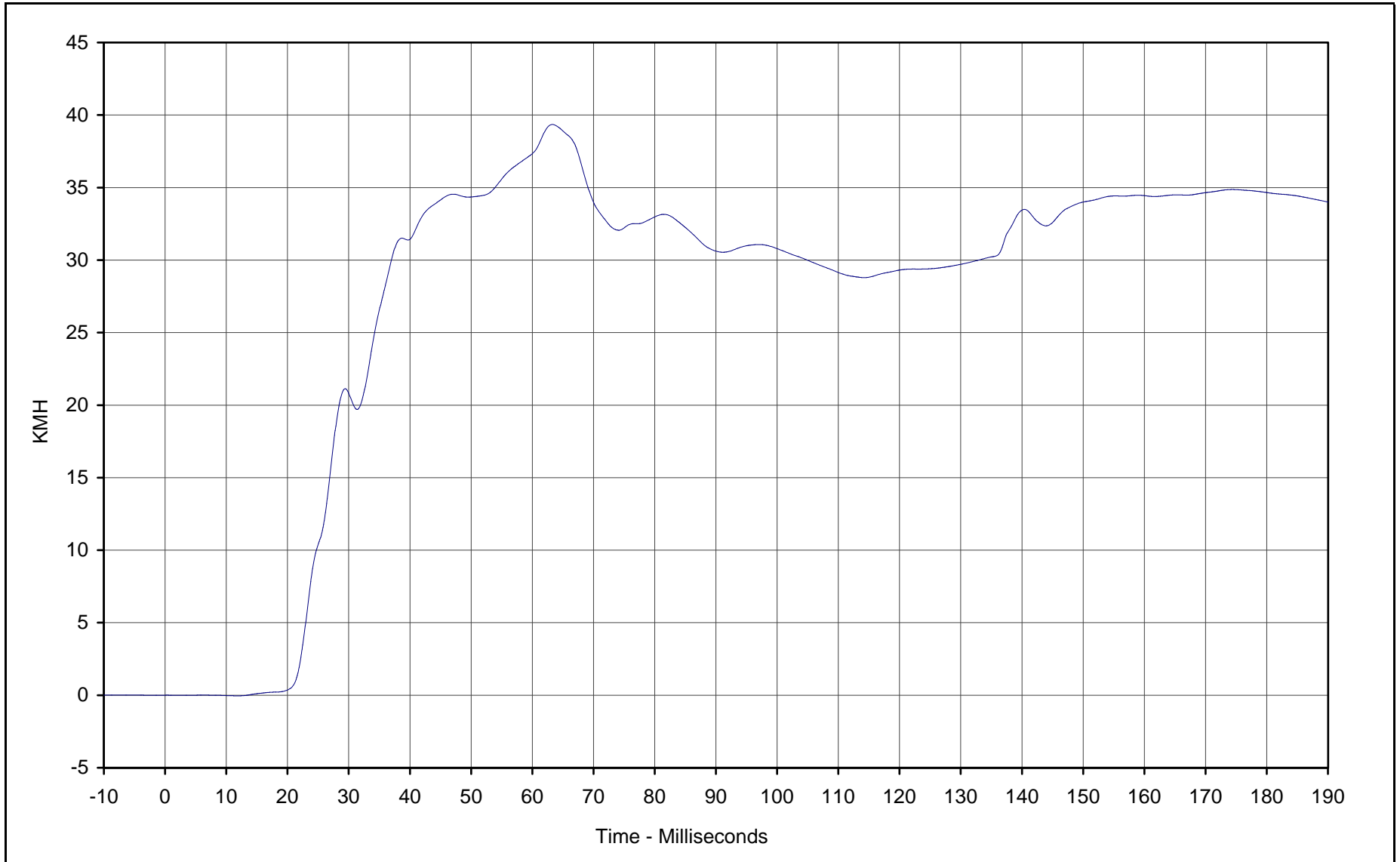


Curve Description: Driver Upper Rib Primary Y
Maximum Value: 174.9 at 137.2 Milliseconds
Minimum Value: -95.3 at 137.6 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-004

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Driver Upper Rib Primary Y Velocity

Maximum Value: 39.4 at 63.3 Milliseconds

Minimum Value: 0.0 at 11.9 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

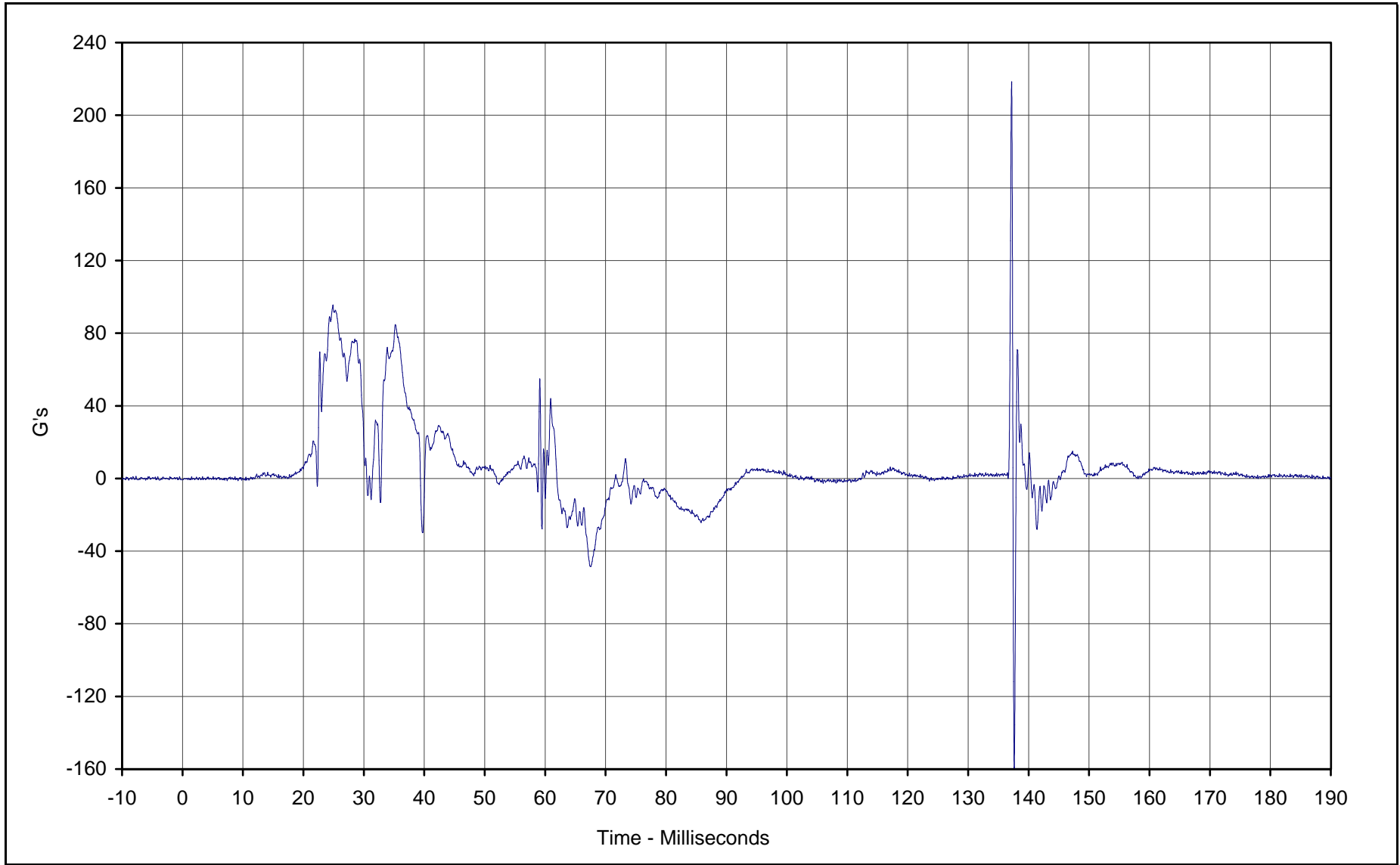
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Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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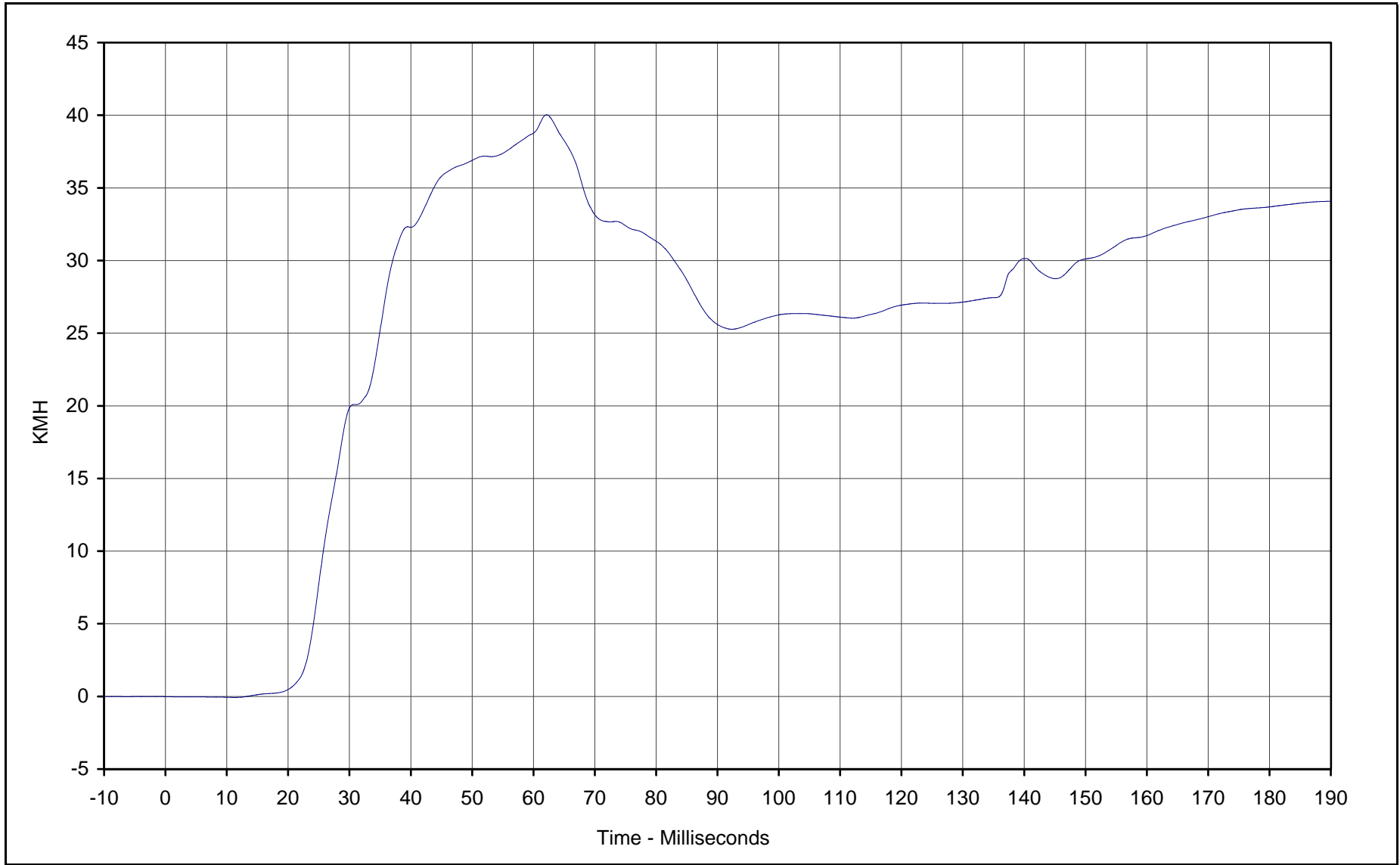
Curve Description: Driver Lower Rib Primary Y
Maximum Value: 217.2 at 137.2 Milliseconds
Minimum Value: -159.0 at 137.6 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-005

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-11



Curve Description: Driver Lower Rib Primary Y Velocity

Maximum Value: 40.0 at 62.1 Milliseconds

Minimum Value: -0.1 at 11.3 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-005

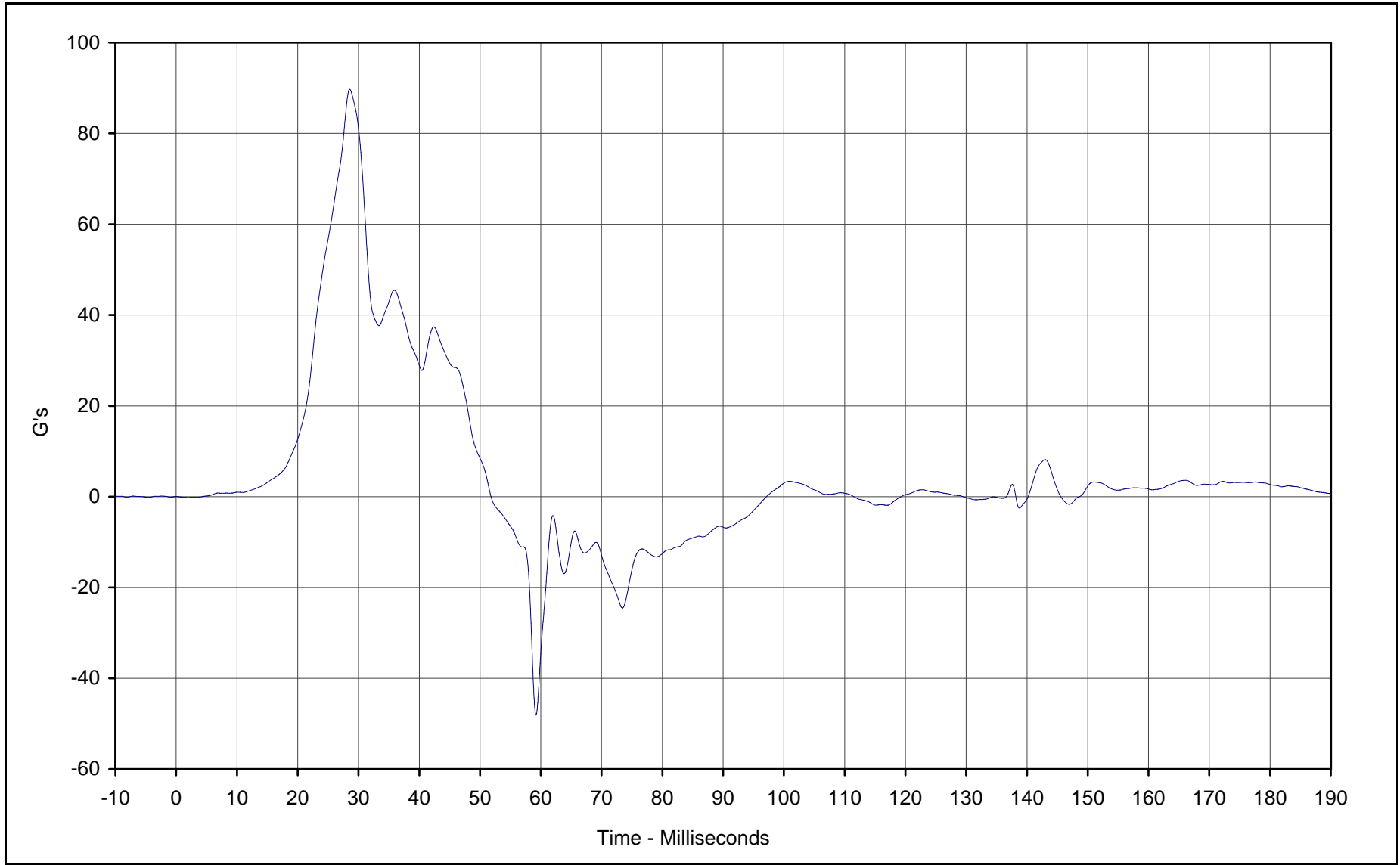
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

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B-12

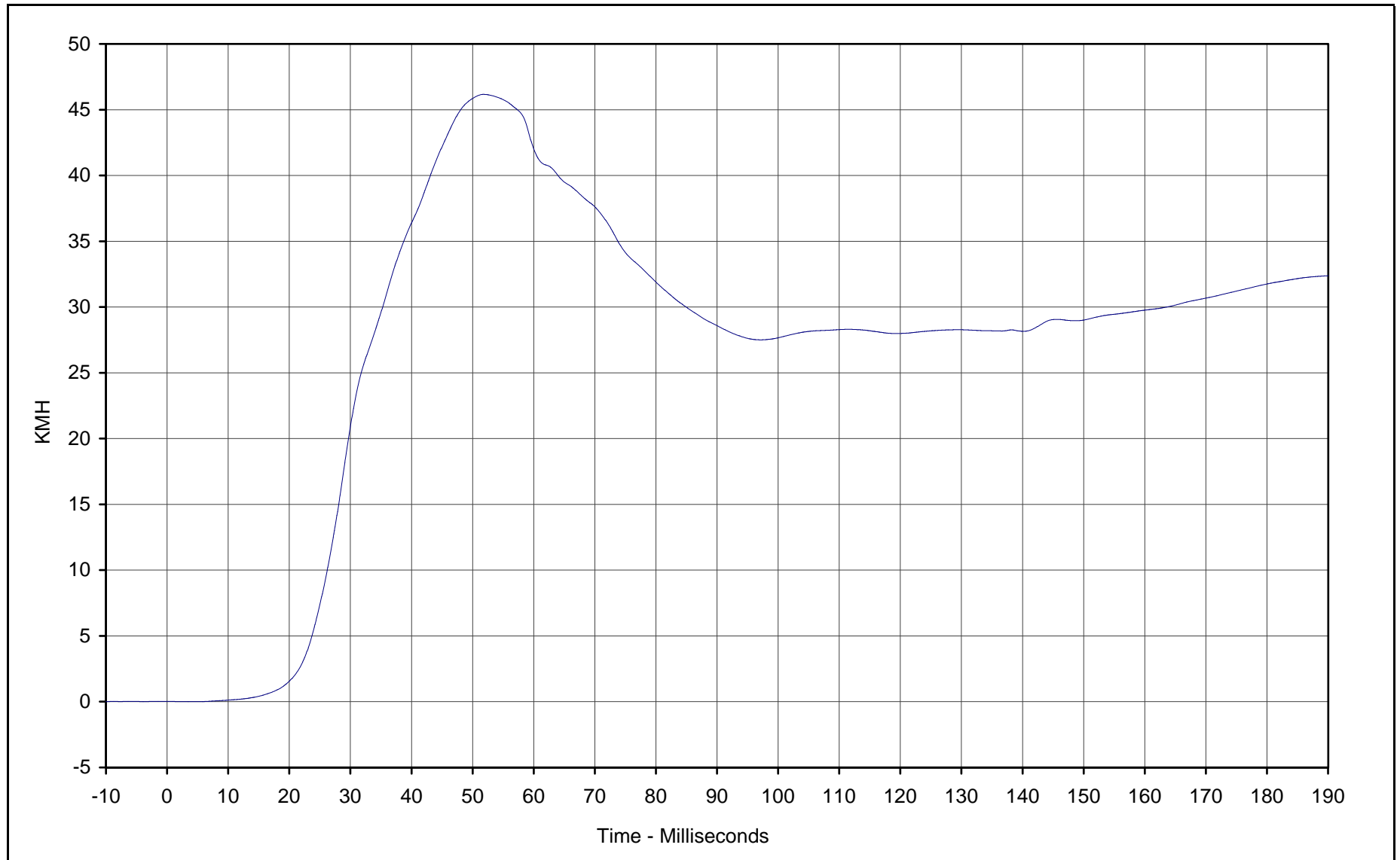


Curve Description: Driver Lower Spine Primary Y
Maximum Value: 89.7 at 28.6 Milliseconds
Minimum Value: -48.1 at 59.2 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: FIL-006

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Driver Lower Spine Primary Y Velocity

Maximum Value: 46.2 at 51.8 Milliseconds

Minimum Value: 0.0 at 4.3 Milliseconds

SAE Filter Class: 180

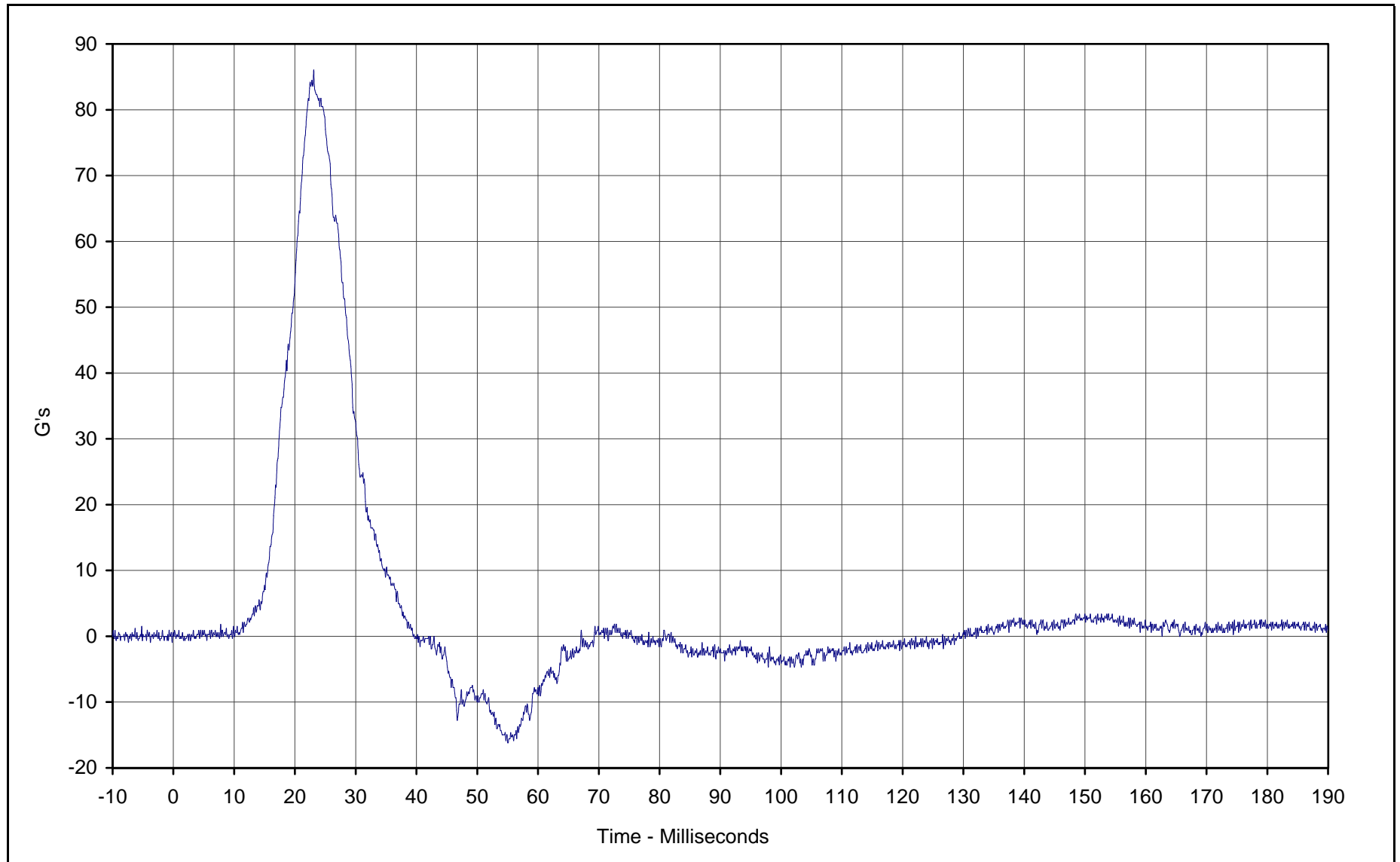
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Curve Number: IN1-006

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

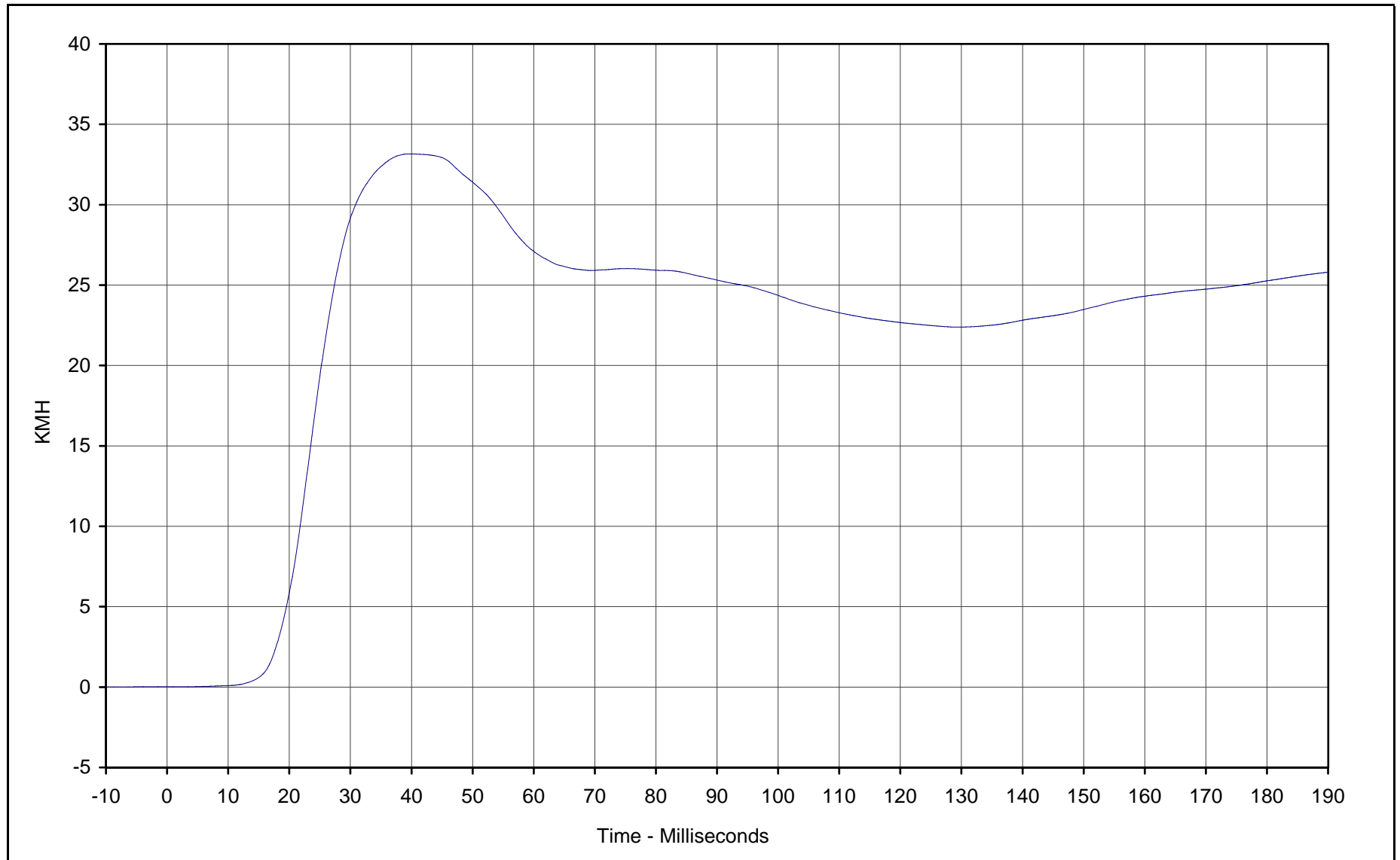




Curve Description: Driver Pelvis Primary Y
 Maximum Value: 86.1 at 23.1 Milliseconds
 Minimum Value: -16.2 at 55.0 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: FIL-007

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe





Curve Description: Driver Pelvis Primary Y Velocity

Maximum Value: 33.2 at 39.8 Milliseconds

Minimum Value: 0.0 at 3.1 Milliseconds

SAE Filter Class: 180

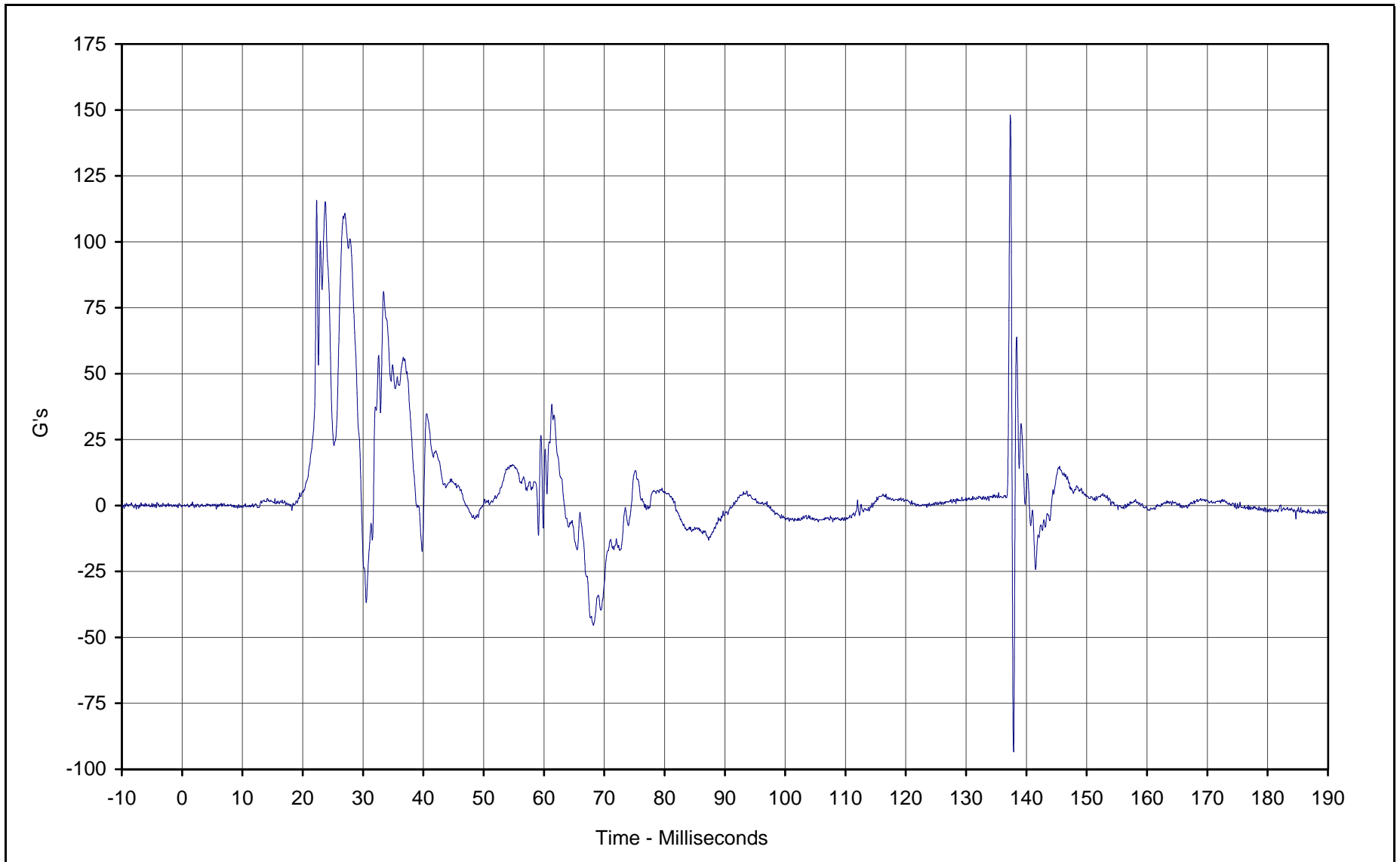
Date of Test: 12/22/00

Curve Number: IN1-007

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe





Curve Description: Driver Upper Rib Redundant Y

Maximum Value: 148.0 at 137.3 Milliseconds

Minimum Value: -93.2 at 137.9 Milliseconds

SAE Filter Class: 1000

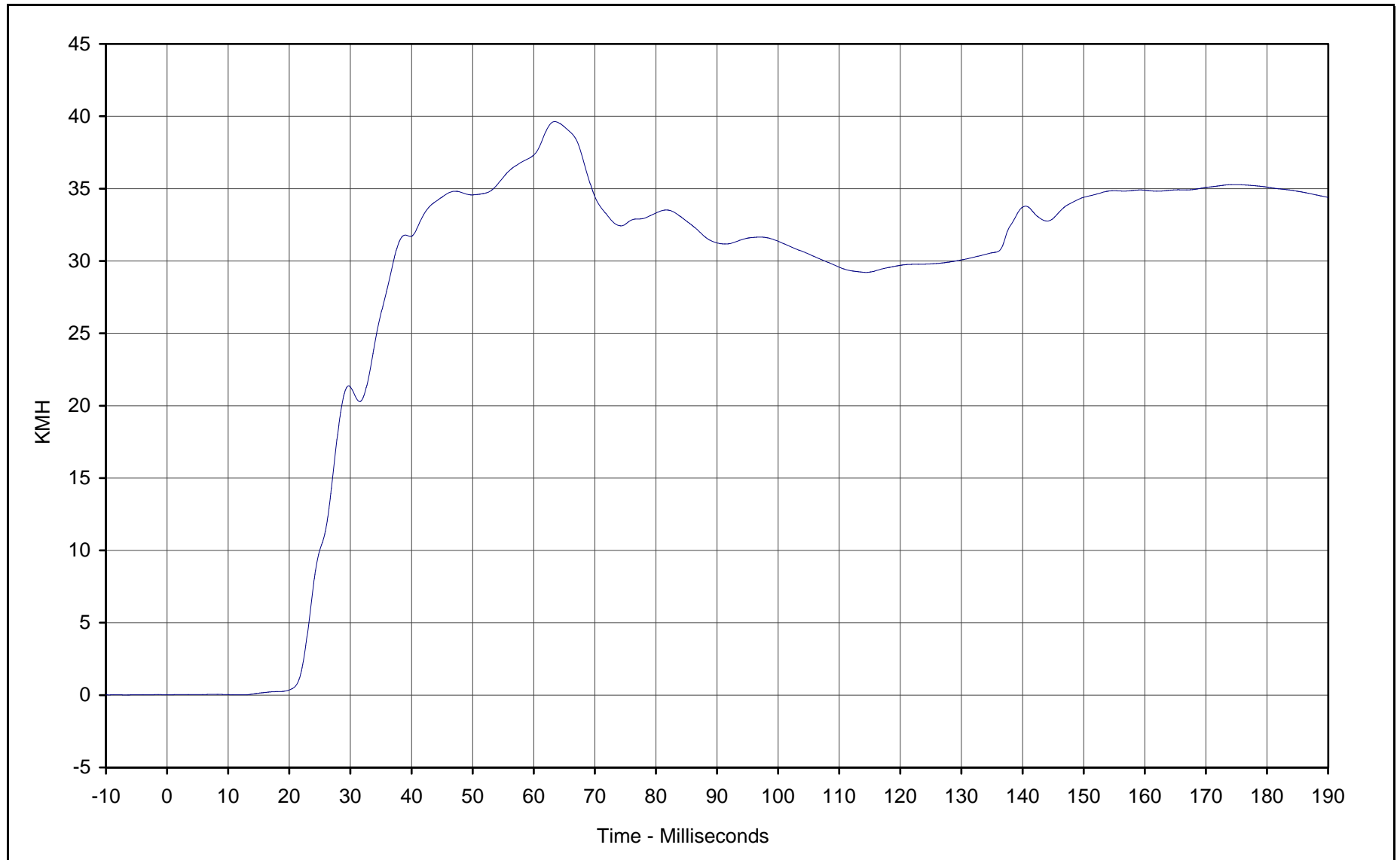
Date of Test: 12/22/00

Curve Number: FIL-008

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe





Curve Description: Driver Upper Rib Redundant Y Velocity

Maximum Value: 39.6 at 63.5 Milliseconds

Minimum Value: 0.0 at 12.3 Milliseconds

SAE Filter Class: 180

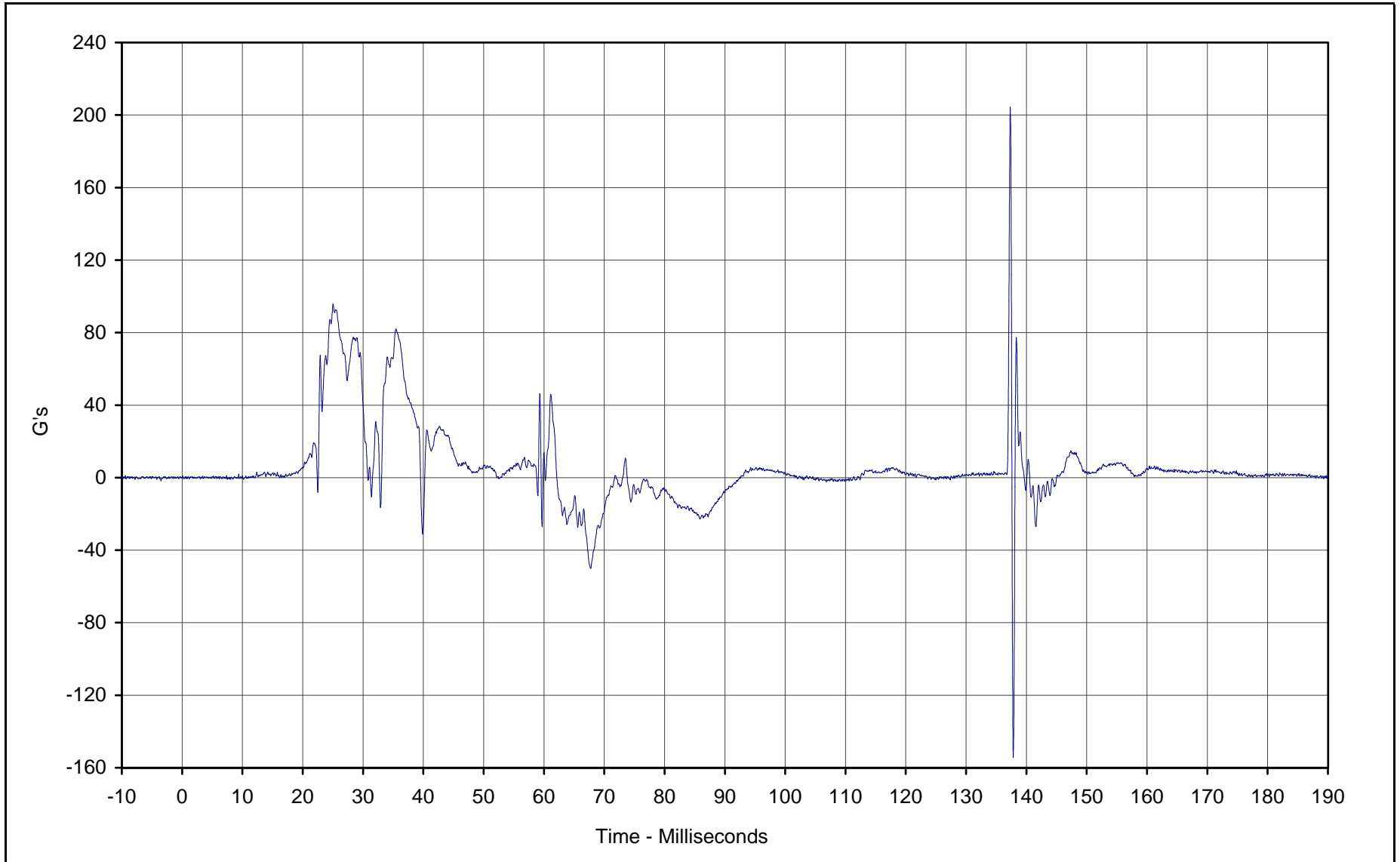
Date of Test: 12/22/00

Curve Number: IN1-008

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

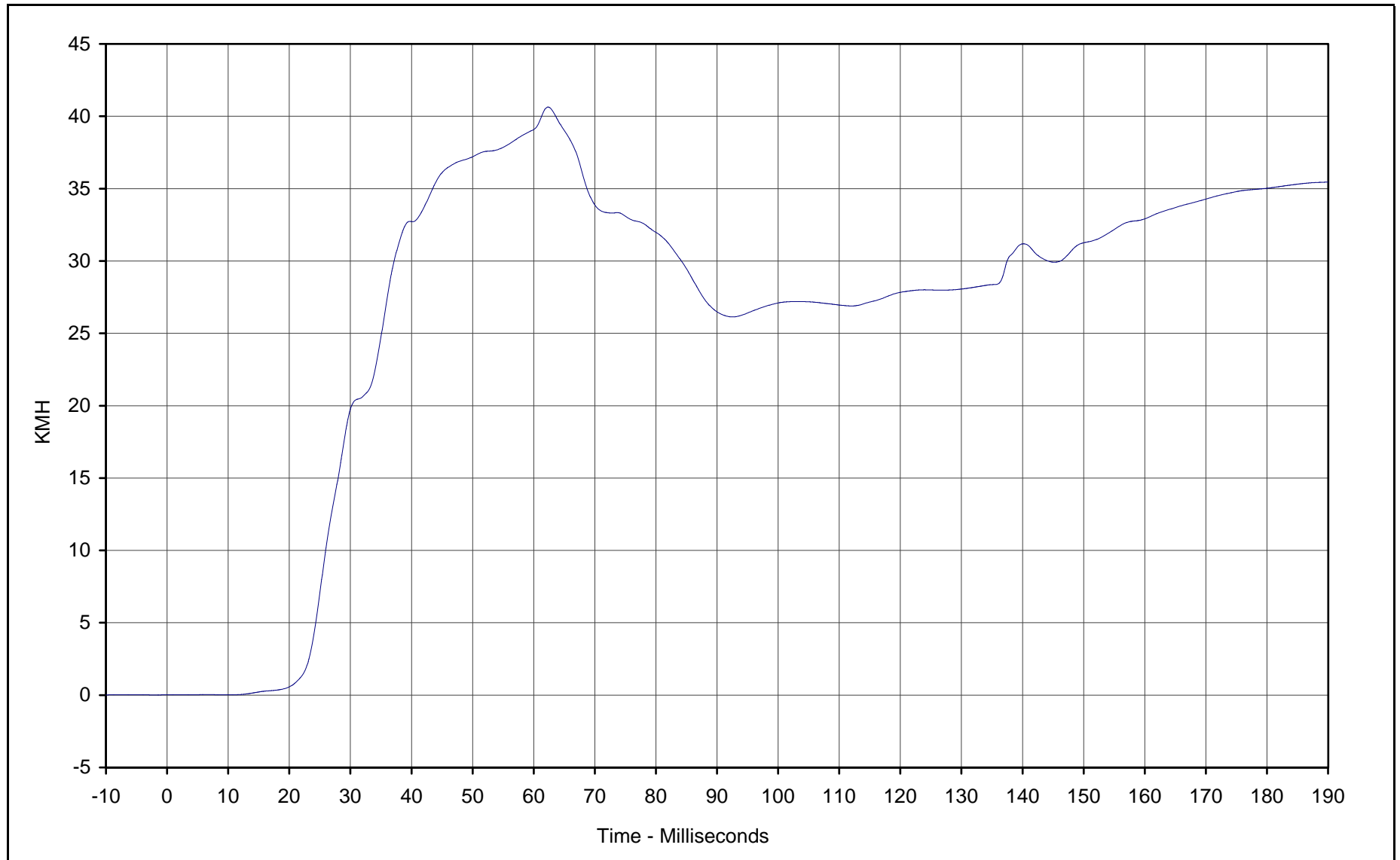




Curve Description: Driver Lower Rib Redundant Y
 Maximum Value: 204.1 at 137.3 Milliseconds
 Minimum Value: -153.9 at 137.8 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: FIL-009

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe





Curve Description: Driver Lower Rib Redundant Y Velocity

Maximum Value: 40.6 at 62.3 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

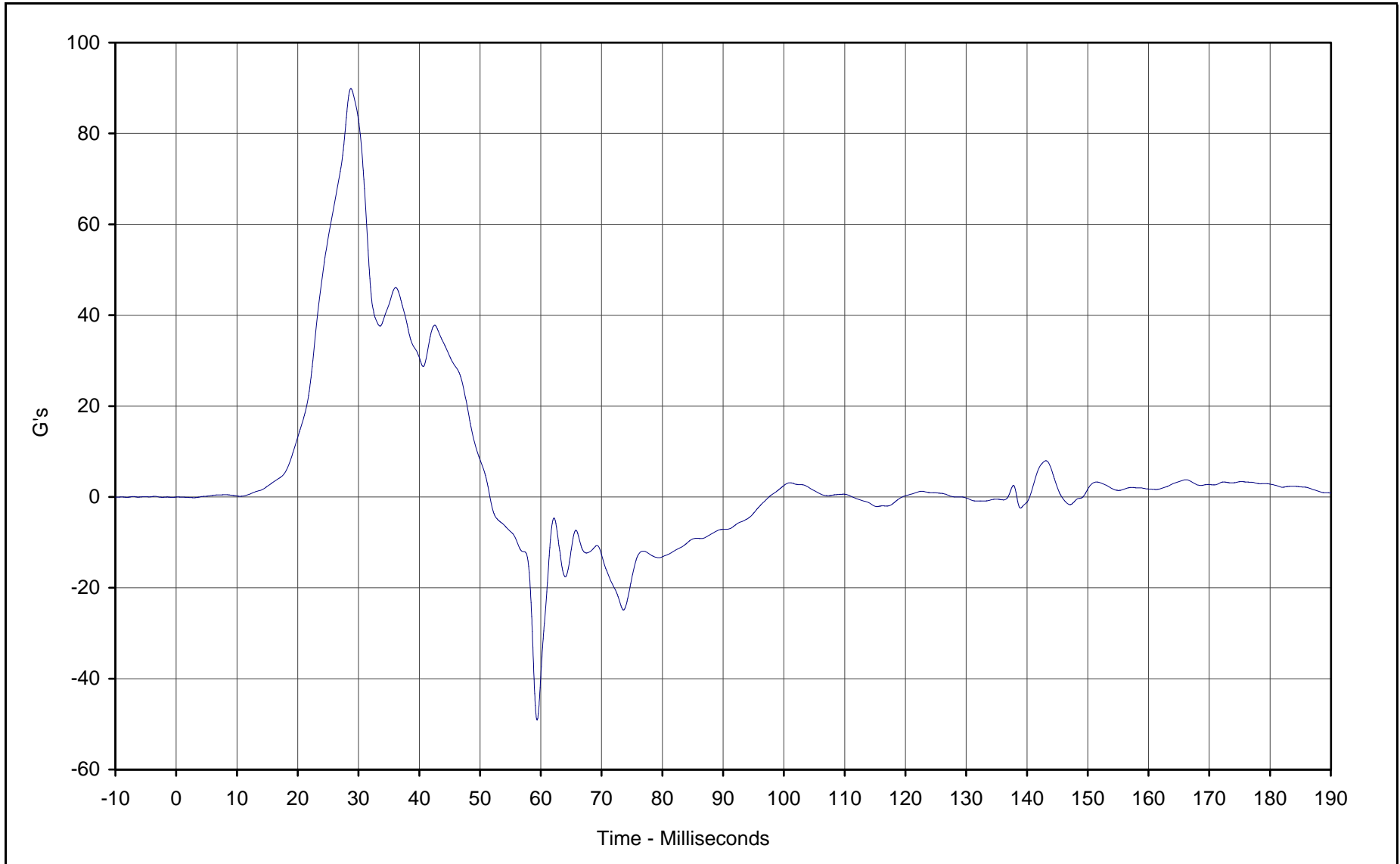
Curve Number: IN1-009

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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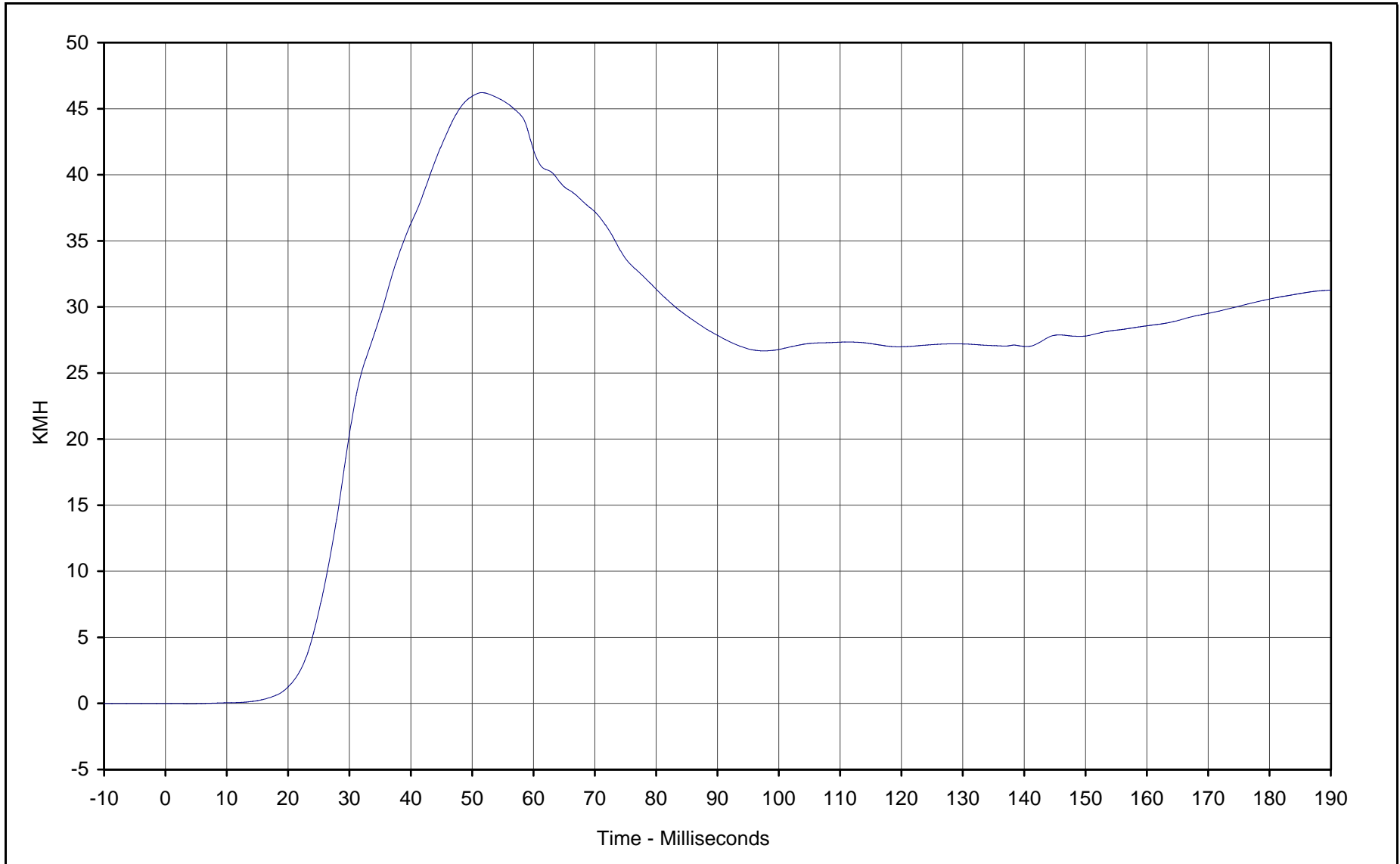
Curve Description: Driver Lower Spine Redundant Y
Maximum Value: 89.9 at 28.8 Milliseconds
Minimum Value: -49.1 at 59.4 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: FIL-010

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Driver Lower Spine Redundant Y Velocity

Maximum Value: 46.2 at 51.6 Milliseconds

Minimum Value: 0.0 at 3.9 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-0010

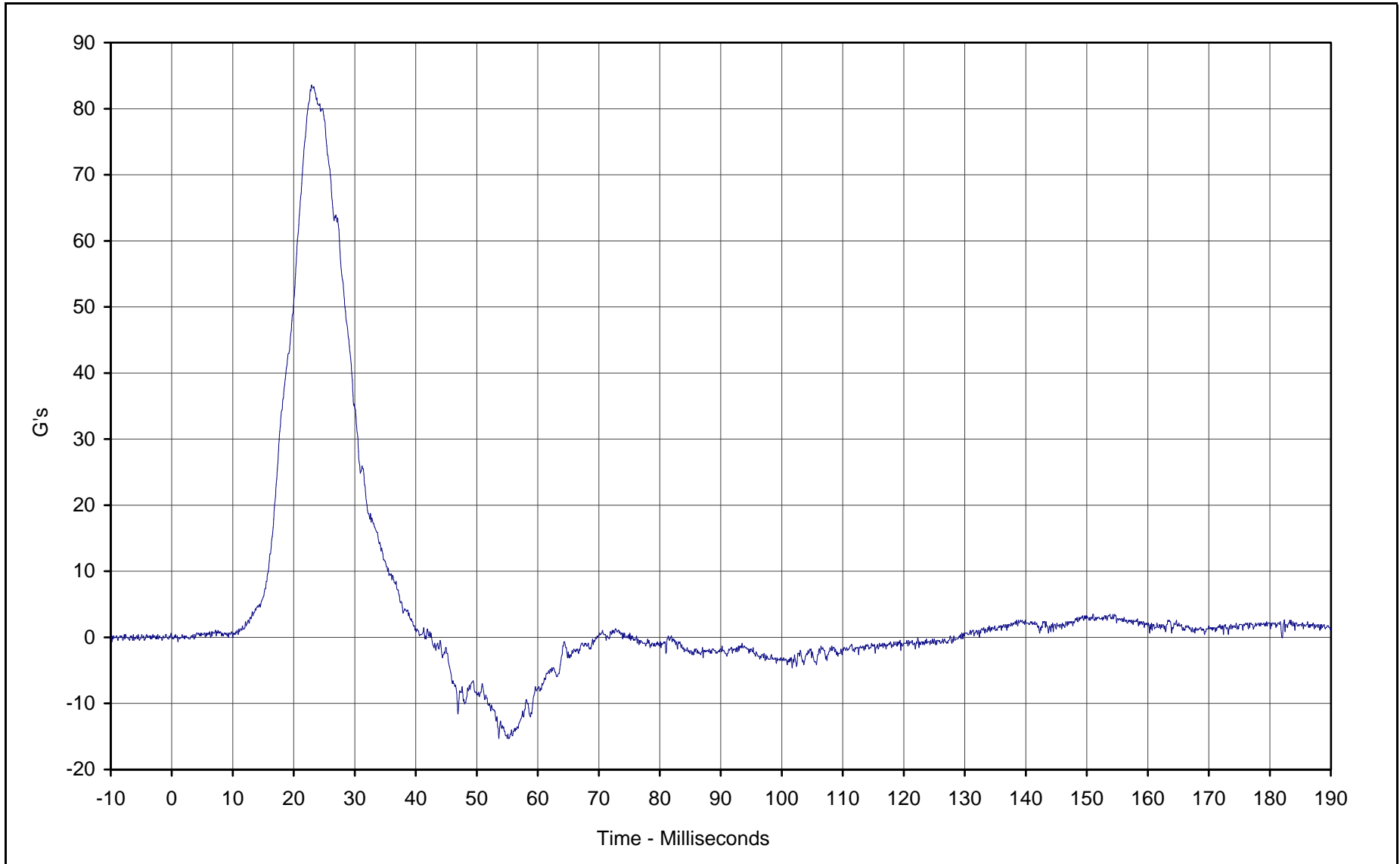
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Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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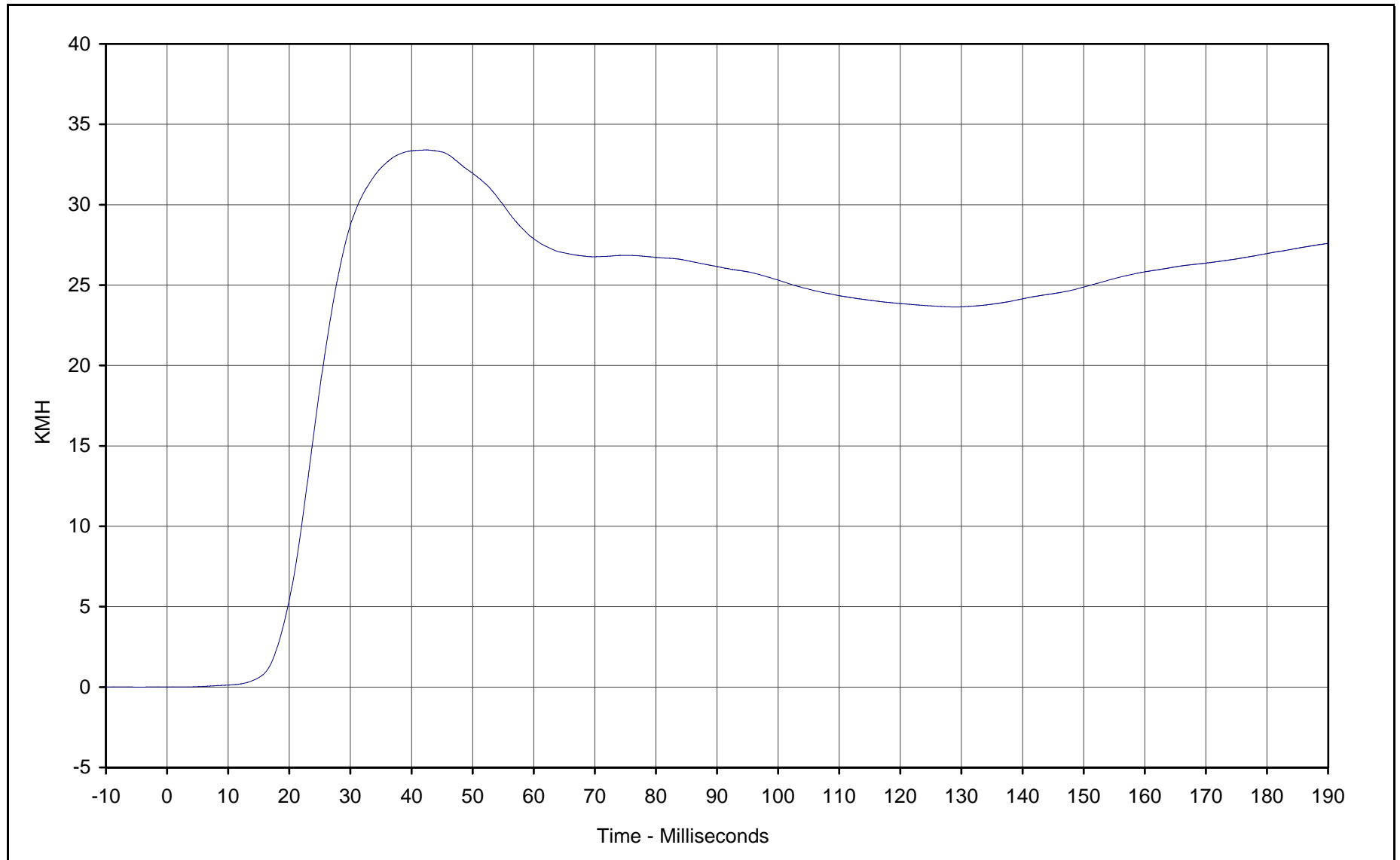


Curve Description: Driver Pelvis Redundant Y
Maximum Value: 83.6 at 22.9 Milliseconds
Minimum Value: -15.3 at 53.6 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-011

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Driver Pelvis Redundant Y Velocity

Maximum Value: 33.4 at 42.4 Milliseconds

Minimum Value: 0.0 at 3.0 Milliseconds

SAE Filter Class: 180

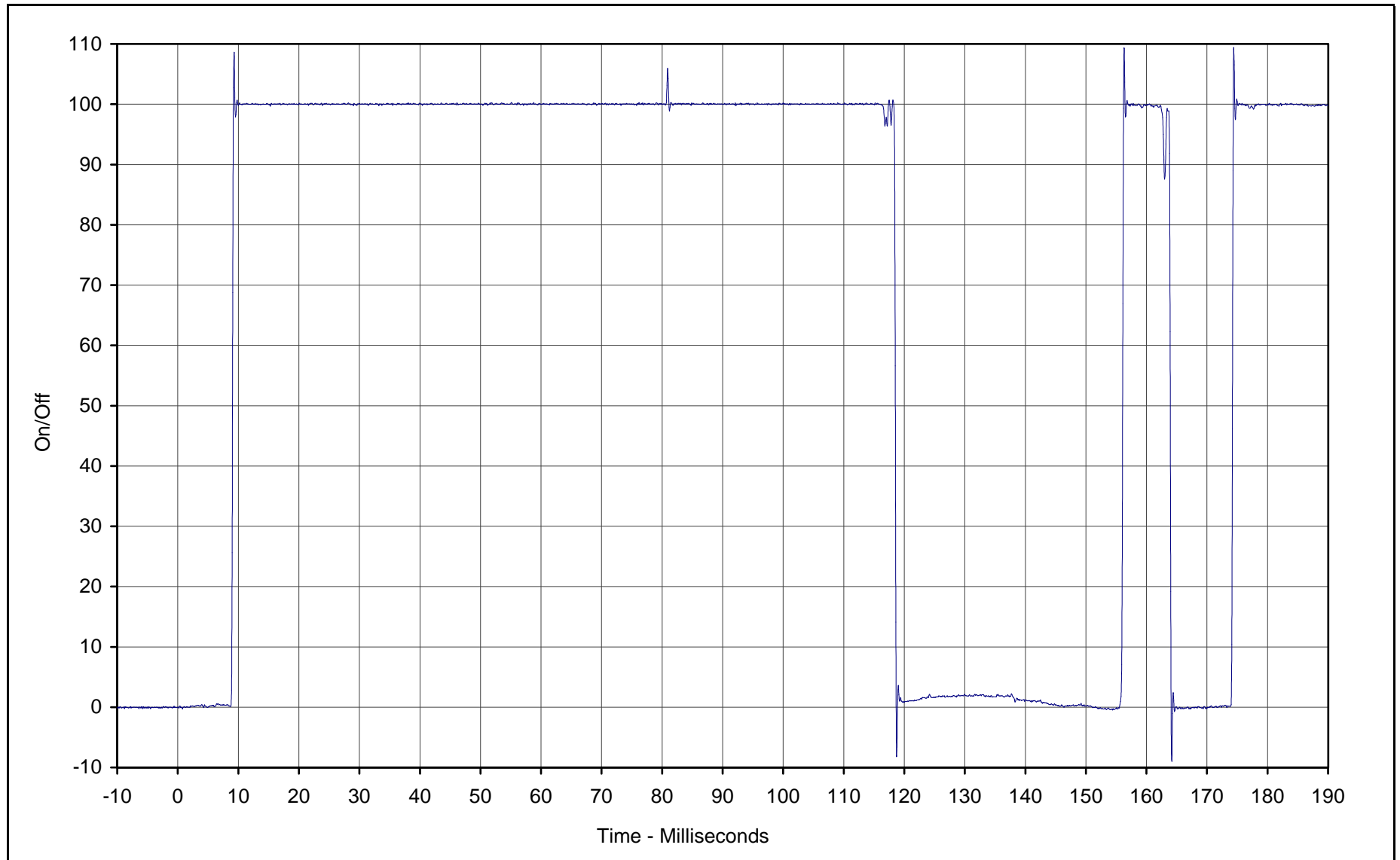
Date of Test: 12/22/00

Curve Number: IN1-011

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



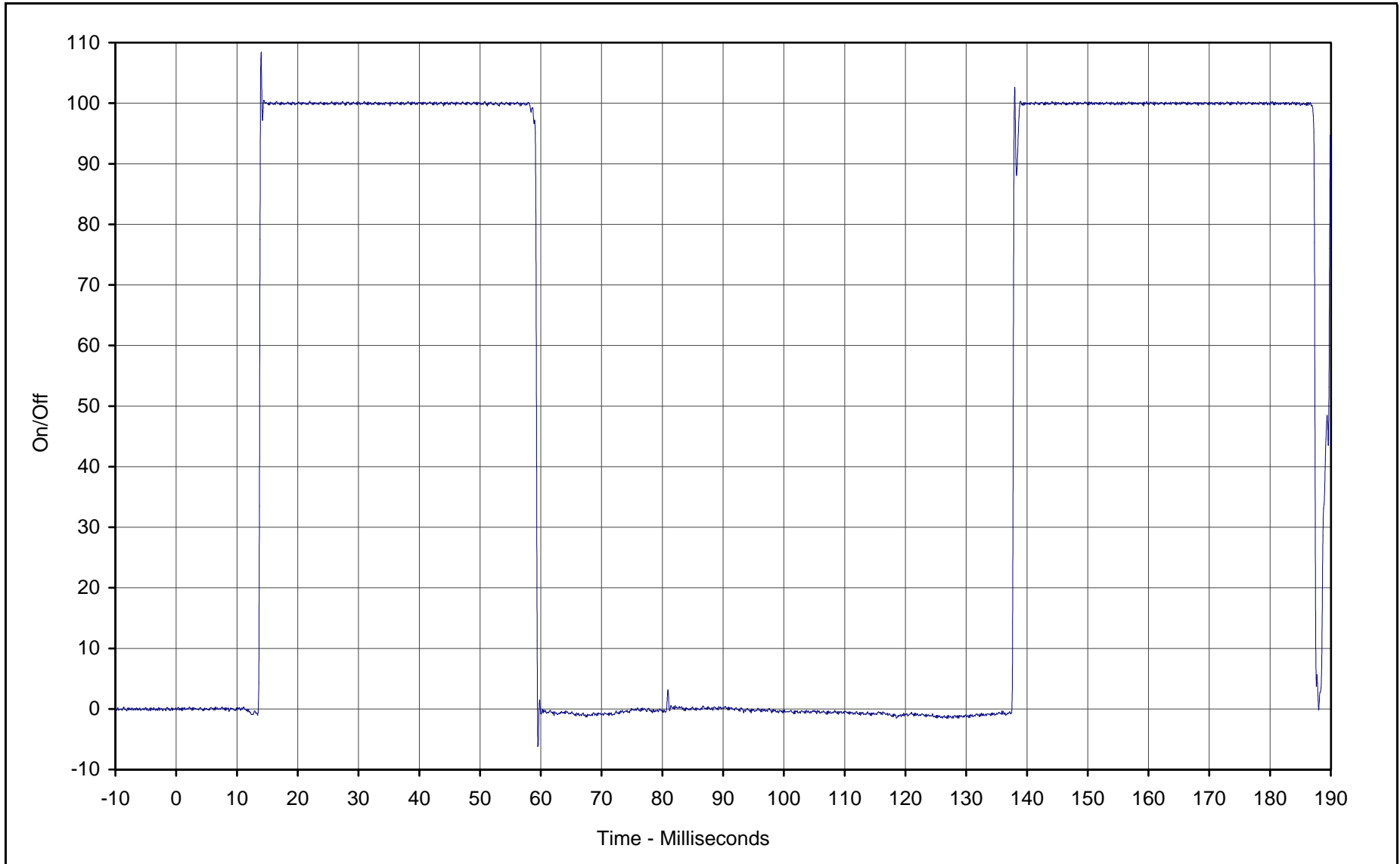


Curve Description: Driver Thorax Contact
 Maximum Value: 109.3 at 156.3 Milliseconds
 Crossing Point: 50% at 9.1 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: FIL-012

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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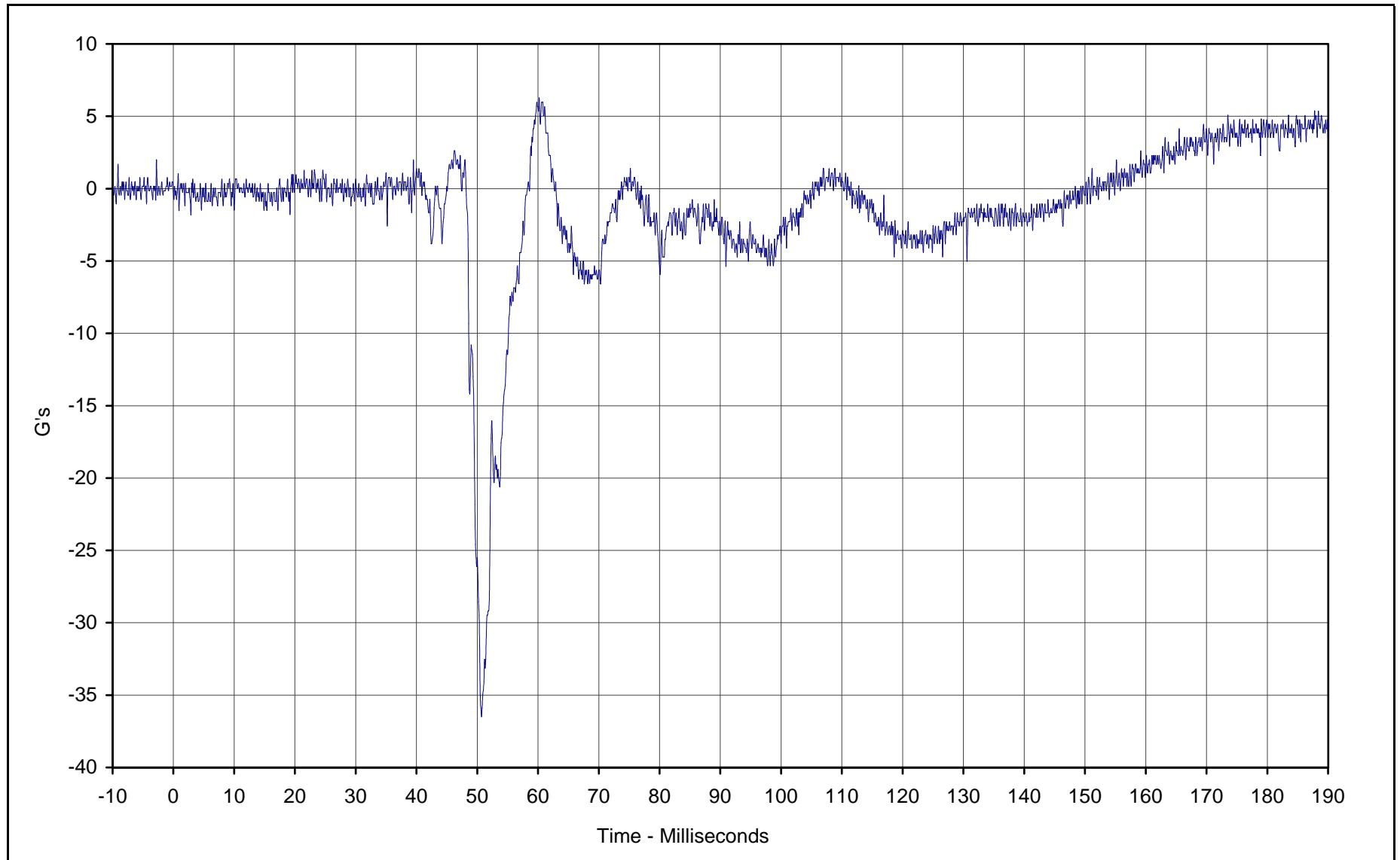


Curve Description: Driver Pelvis Contact
Maximum Value: 108.5 at 14.0 Milliseconds
Crossing Point: 50% at 13.8 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-013

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



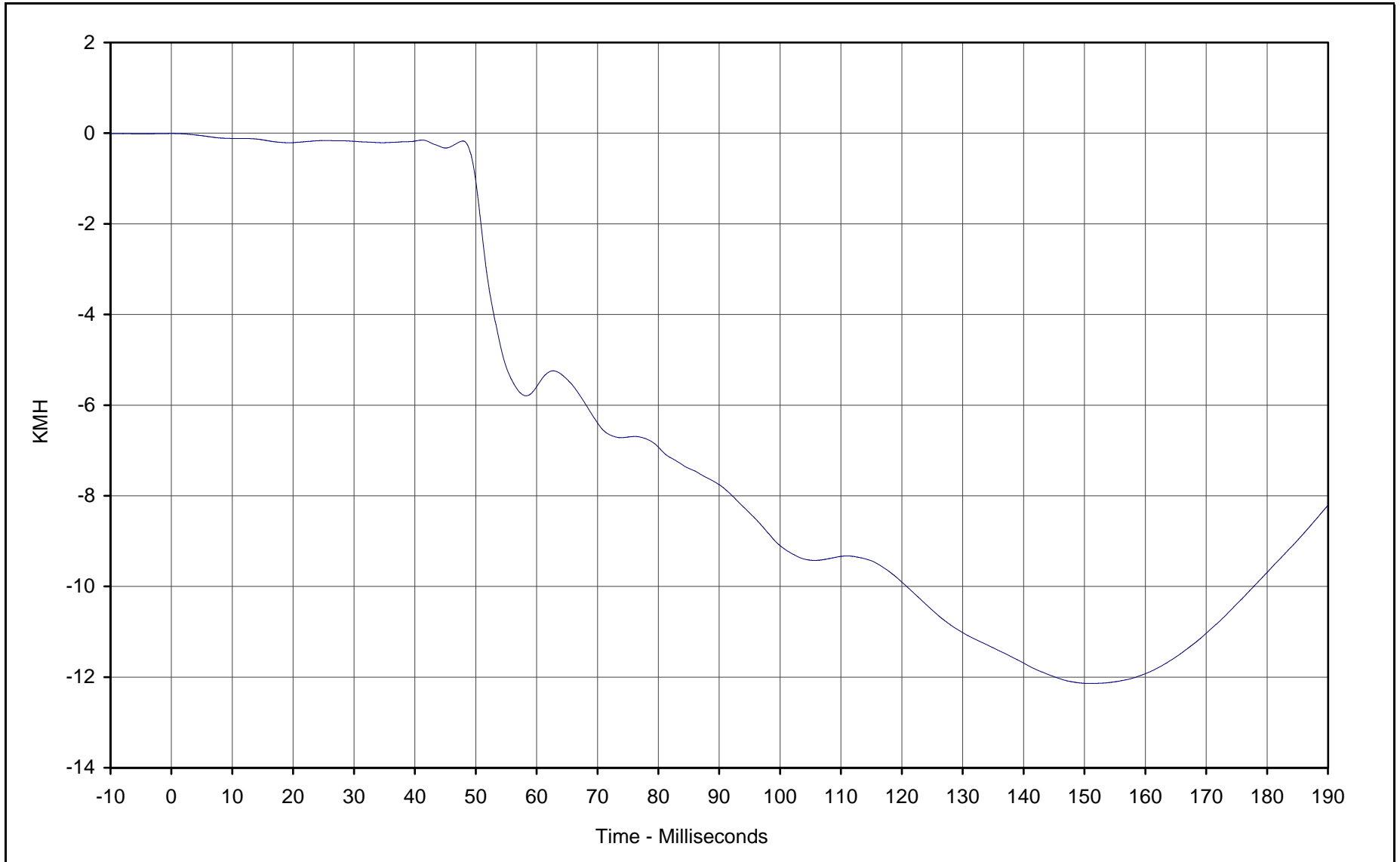
KAR21003-08



Curve Description: Pass. Head CG X
 Maximum Value: 6.3 at 60.2 Milliseconds
 Minimum Value: -36.5 at 50.7 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: FIL-014

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe





Curve Description: Pass. Head CG X Velocity

Maximum Value: 0.0 at 0.0 Milliseconds

Minimum Value: -12.1 at 150.8 Milliseconds

SAE Filter Class: 180

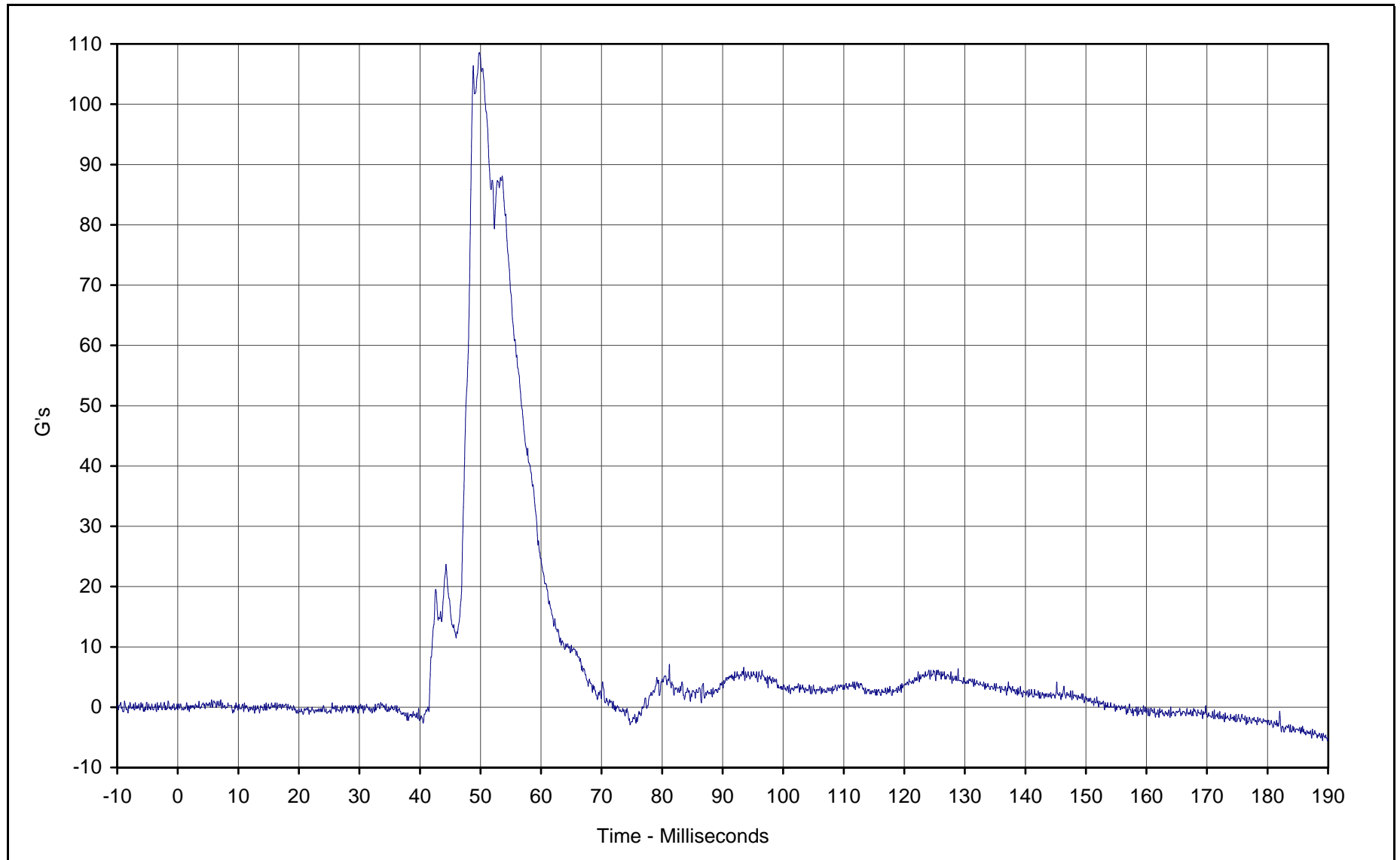
Date of Test: 12/22/00

Curve Number: IN1-014

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



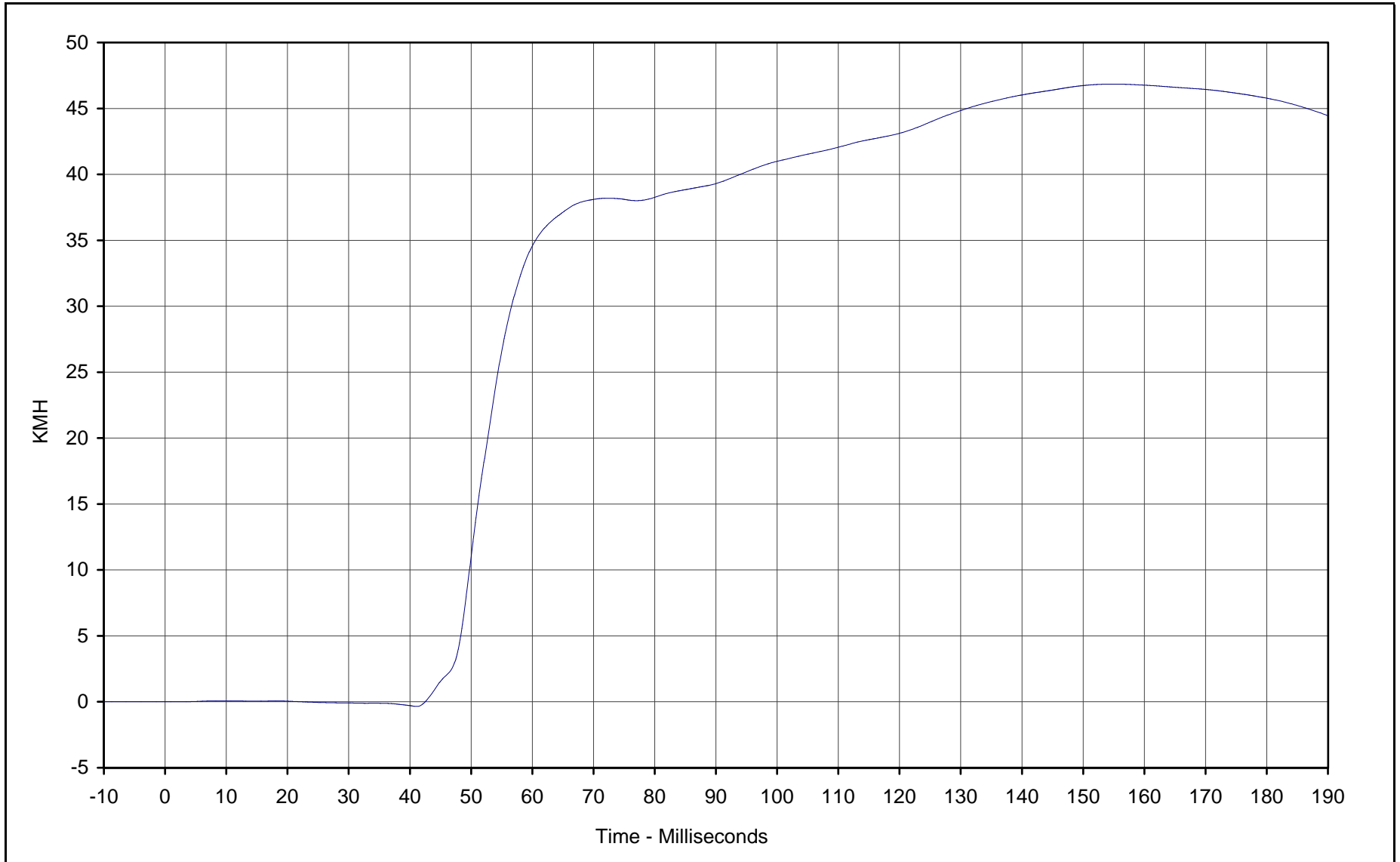


Curve Description: Pass. Head CG Y
 Maximum Value: 108.6 at 49.8 Milliseconds
 Minimum Value: -5.6 at 189.1 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: FIL-015

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Pass. Head CG Y Velocity

Maximum Value: 46.8 at 154.8 Milliseconds

Minimum Value: -0.4 at 41.1 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-015

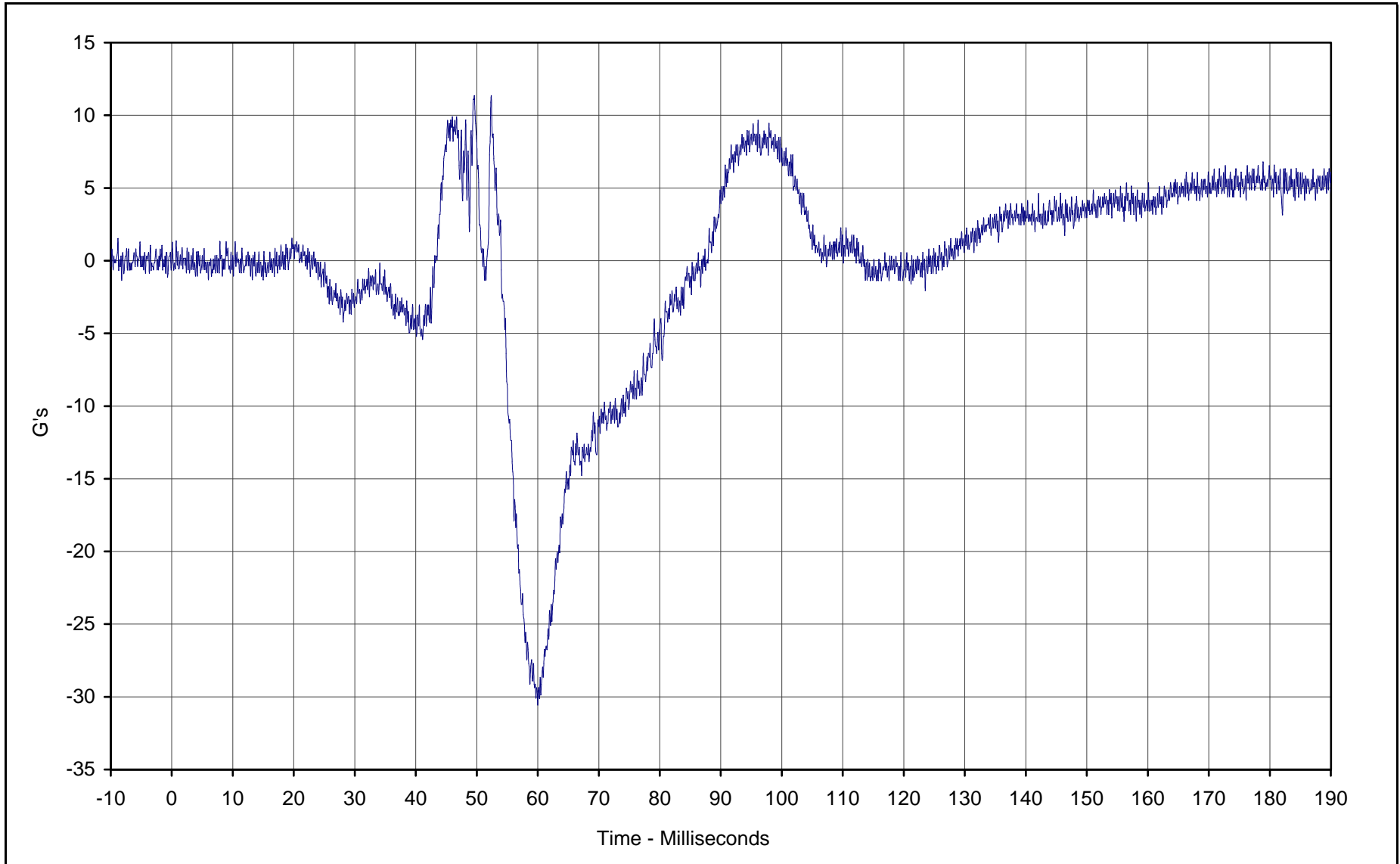
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

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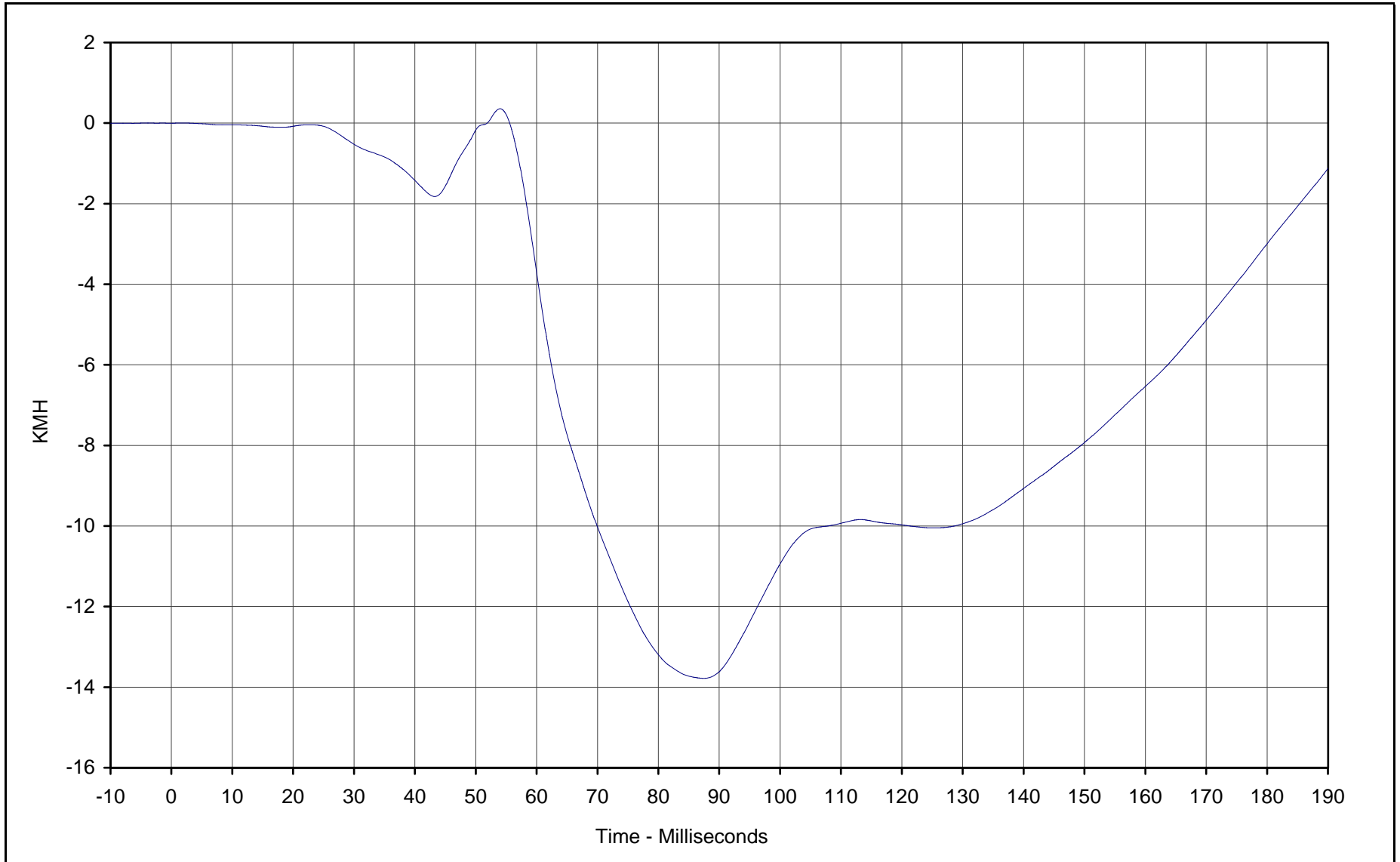
Curve Description: Pass. Head CG Z
Maximum Value: 11.3 at 49.6 Milliseconds
Minimum Value: -30.6 at 60.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-016

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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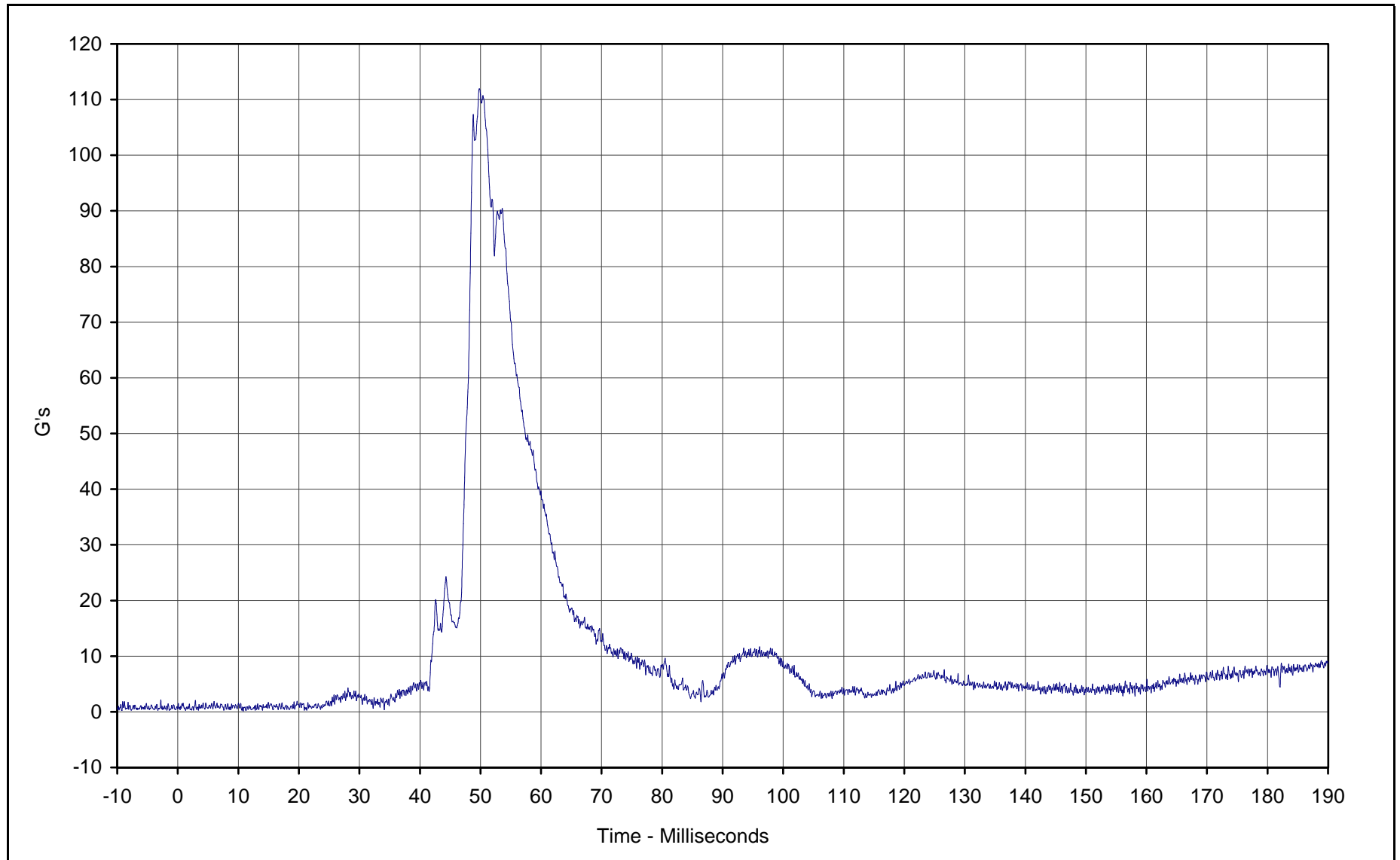


Curve Description: Pass. Head CG Z Velocity
Maximum Value: 0.4 at 54.0 Milliseconds
Minimum Value: -13.8 at 87.4 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-016

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



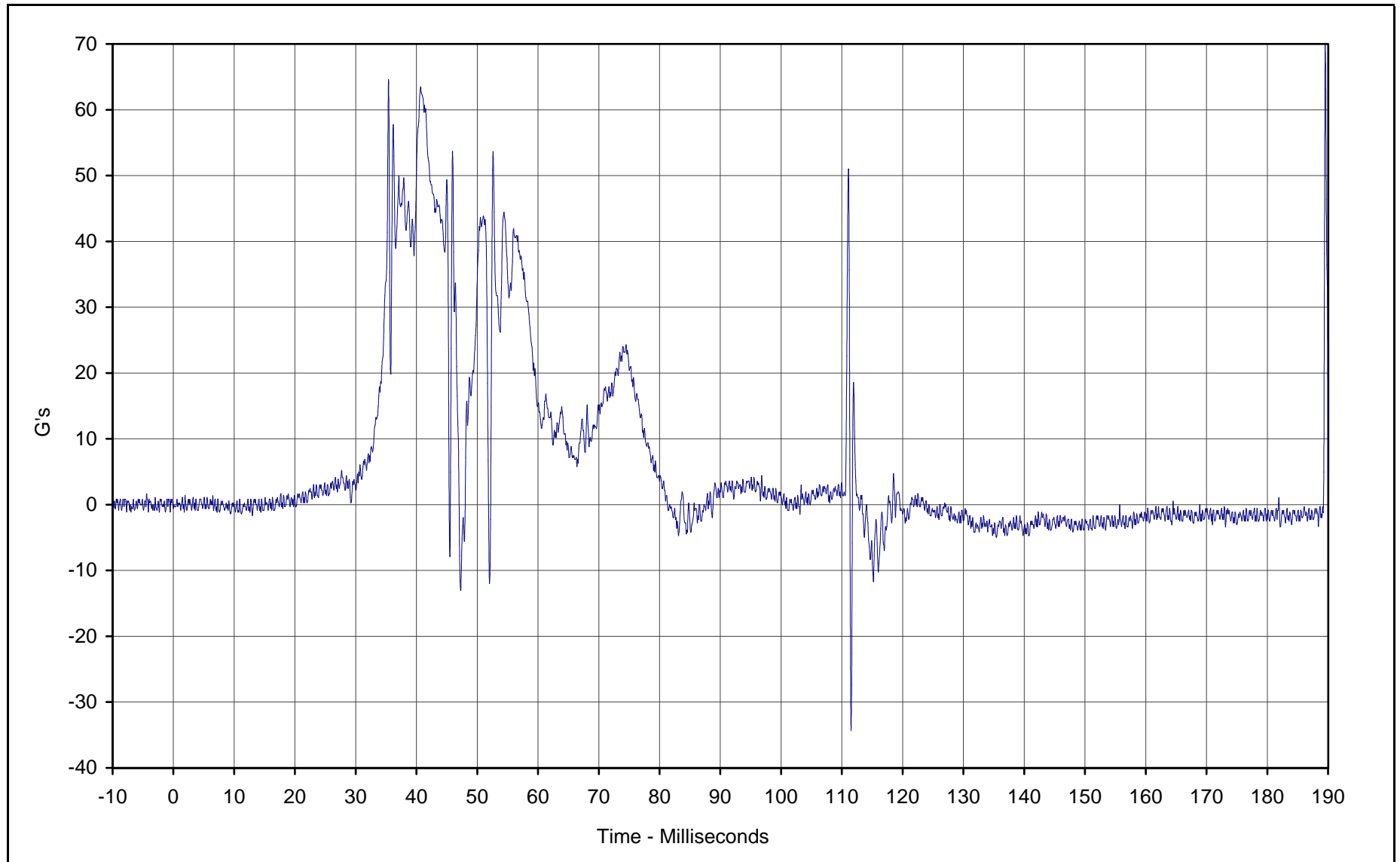
KAR21003-08



Curve Description: Pass. Head CG Resultant
 Maximum Value: 111.9 at 49.8 Milliseconds
 Minimum Value: 0.1 at 10.8 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: RES-014

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

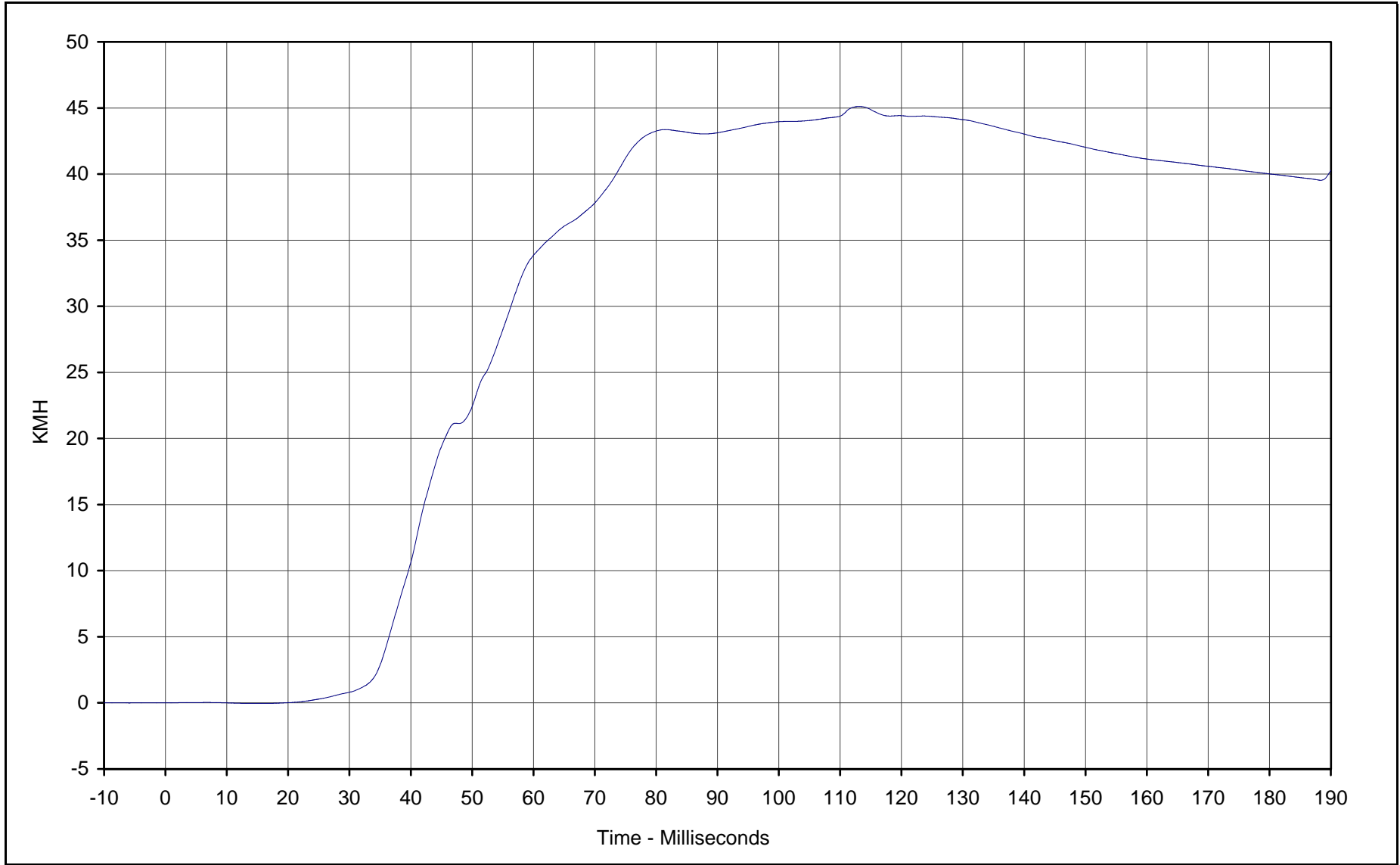




Curve Description: Pass. Upper Rib Primary Y
 Maximum Value: 69.6 at 189.5 Milliseconds
 Minimum Value: -34.3 at 111.5 Milliseconds
 SAE Filter Class: 1000
 Date of Test: 12/22/00
 Curve Number: FIL-017

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



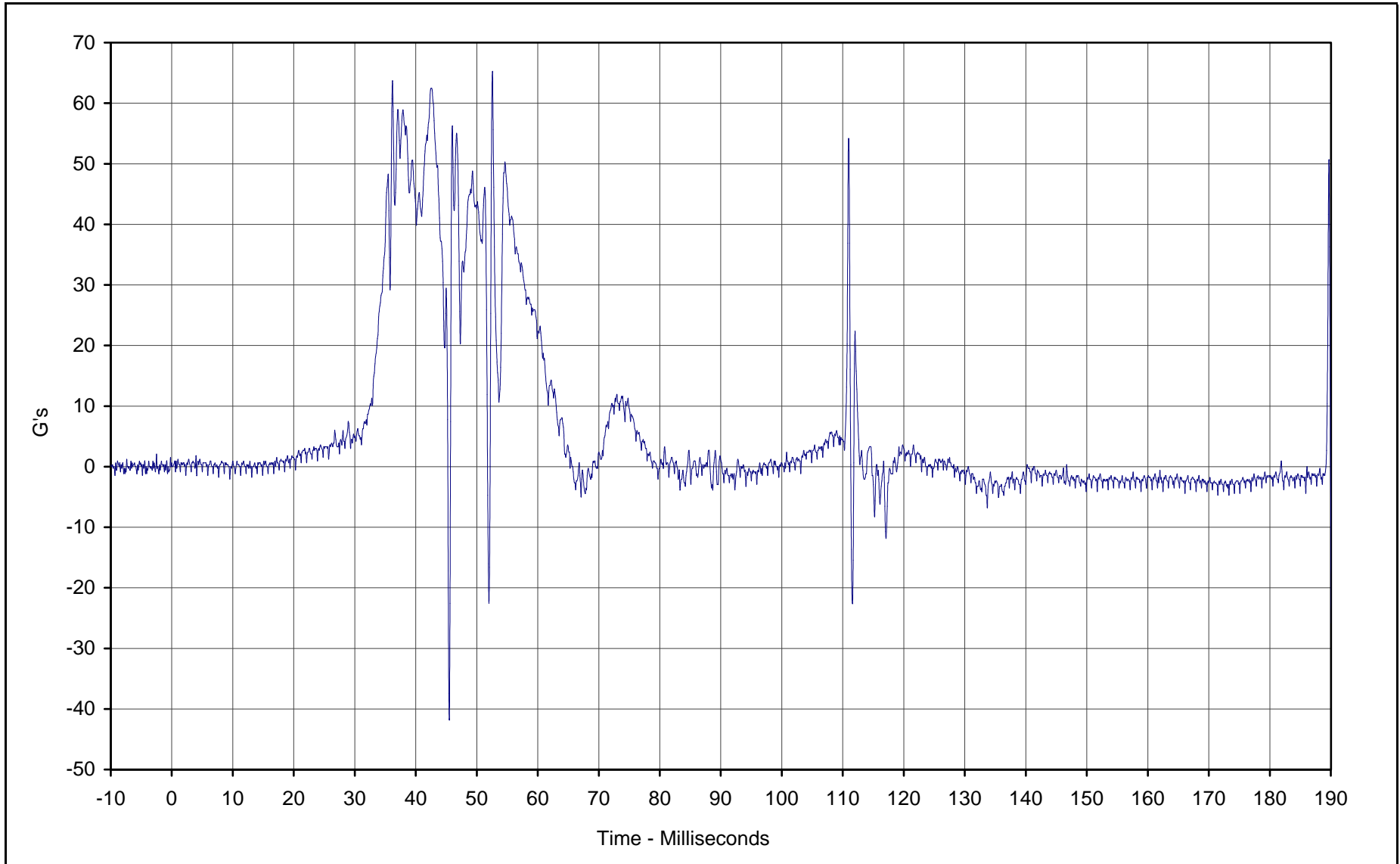


Curve Description: Pass. Upper Rib Primary Y Velocity
 Maximum Value: 45.1 at 113.1 Milliseconds
 Minimum Value: 0.0 at 15.5 Milliseconds
 SAE Filter Class: 180
 Date of Test: 12/22/00
 Curve Number: IN1-017

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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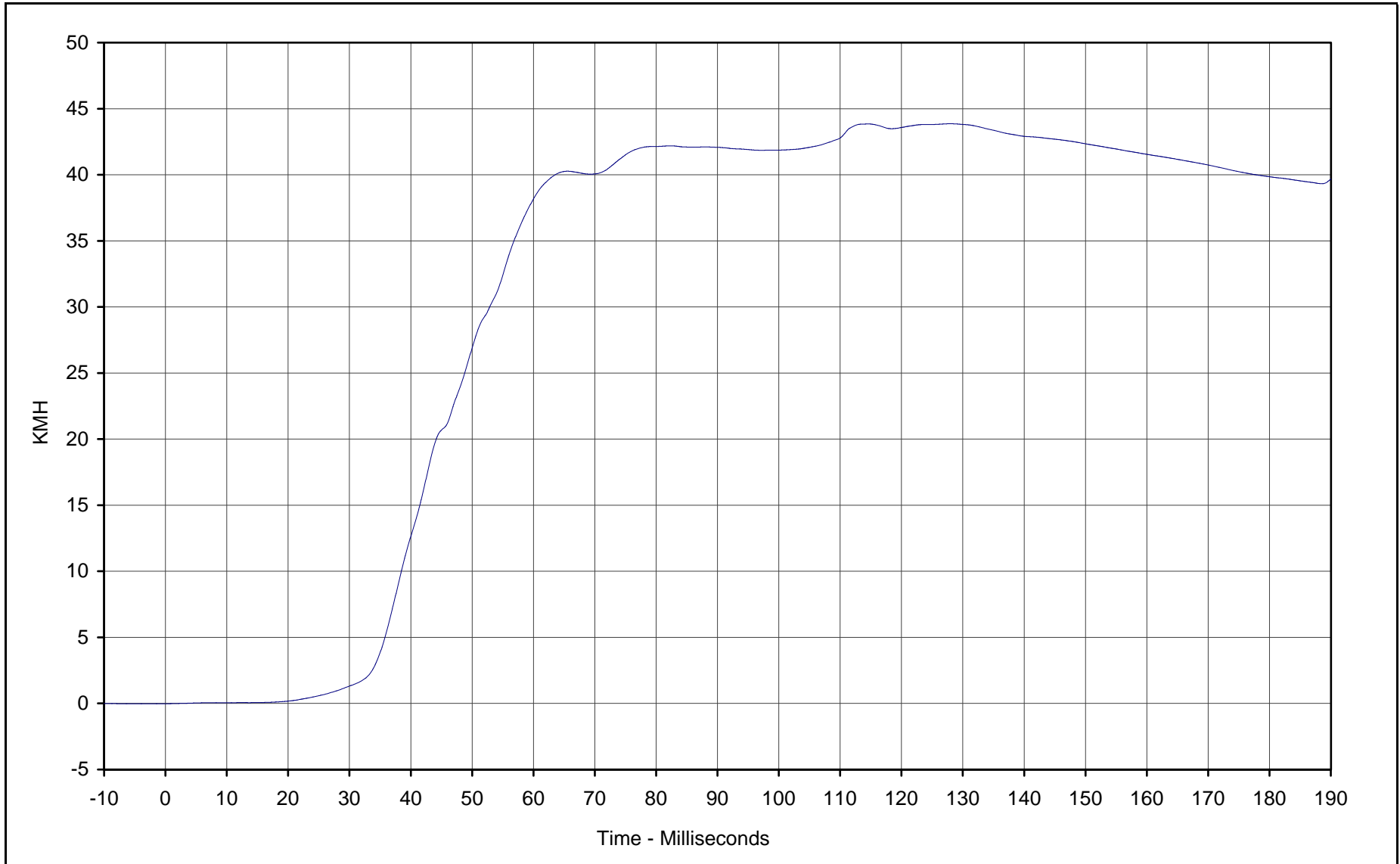


Curve Description: Pass. Lower Rib Primary Y
Maximum Value: 65.2 at 52.6 Milliseconds
Minimum Value: -41.6 at 45.5 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-018

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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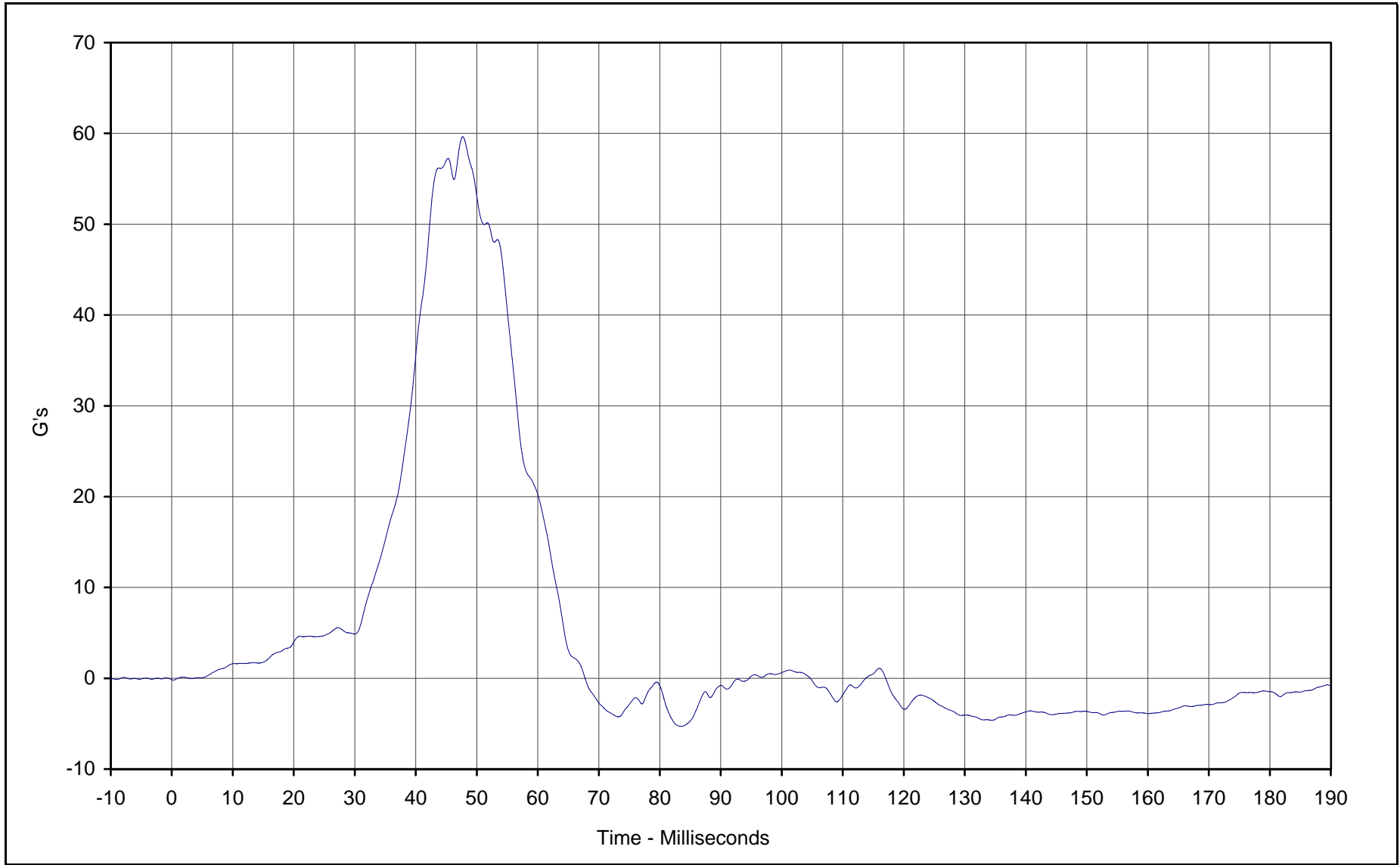


Curve Description: Pass. Lower Rib Primary Y Velocity
Maximum Value: 43.9 at 128.0 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-018

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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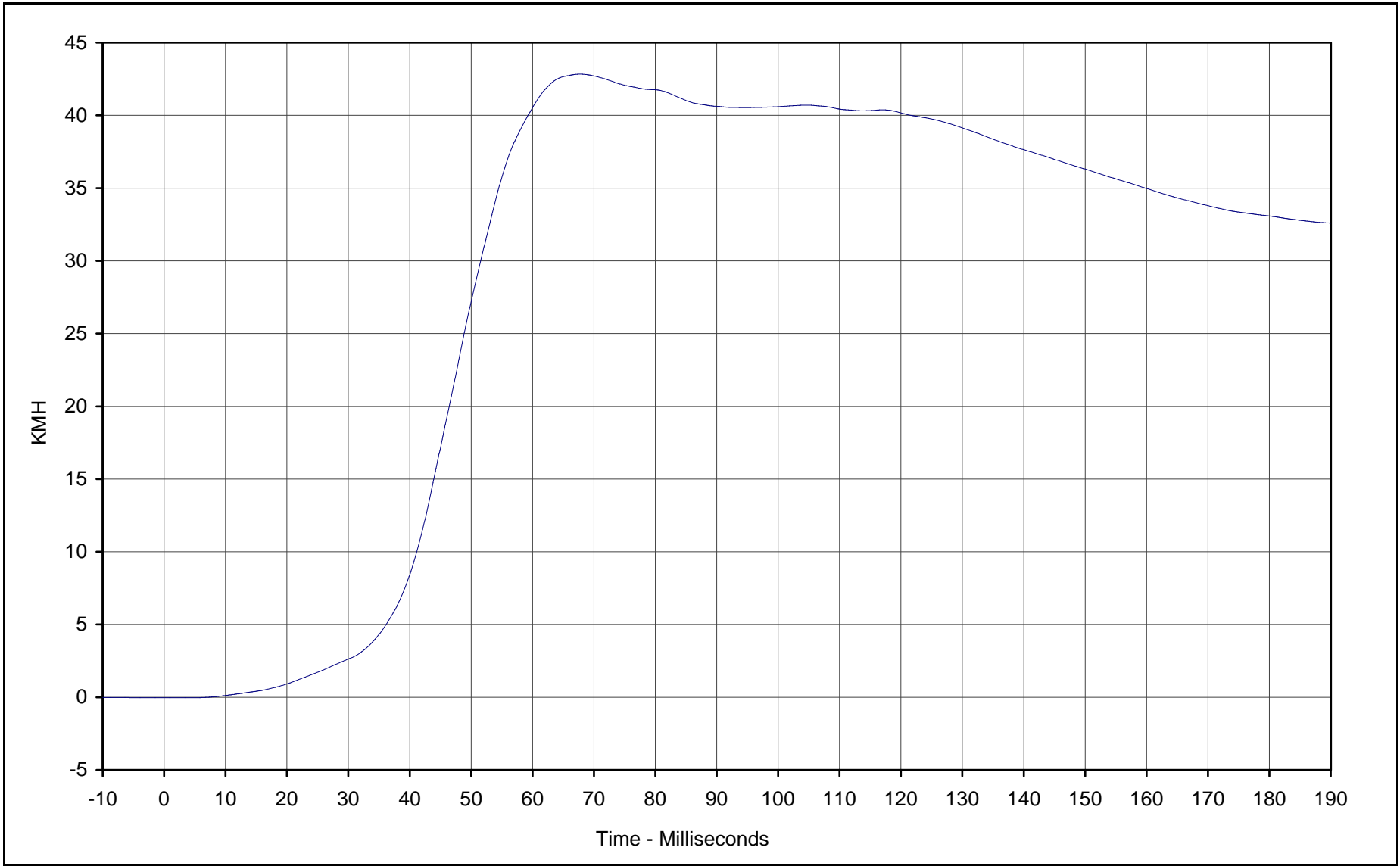


Curve Description: Pass. Lower Spine Primary Y
Maximum Value: 59.6 at 47.7 Milliseconds
Minimum Value: -5.3 at 83.5 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: FIL-019

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Pass. Lower Spine Primary Y Velocity

Maximum Value: 42.8 at 67.8 Milliseconds

Minimum Value: 0.0 at 1.0 Milliseconds

SAE Filter Class: 180

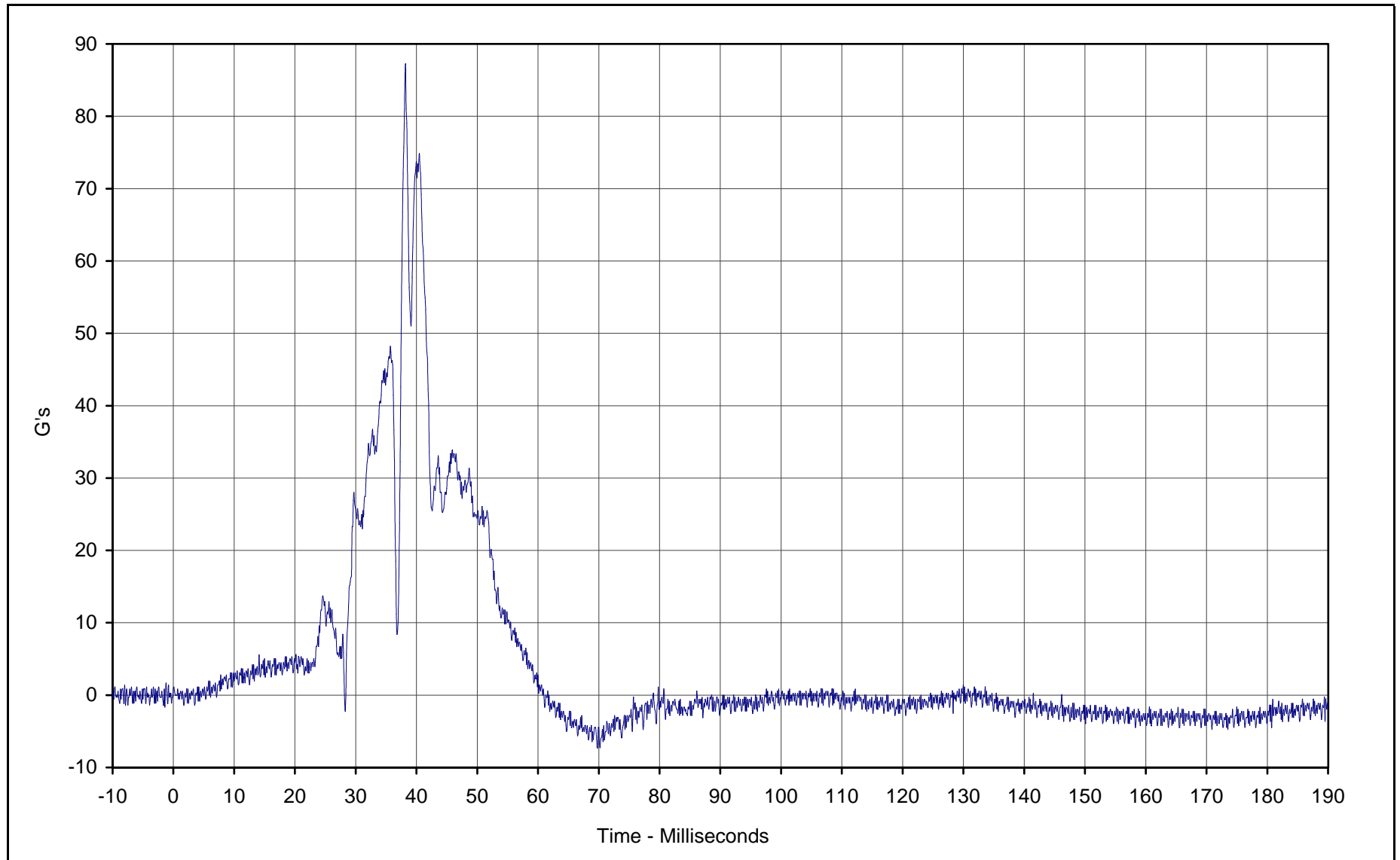
Date of Test: 12/22/00

Curve Number: IN1-019

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



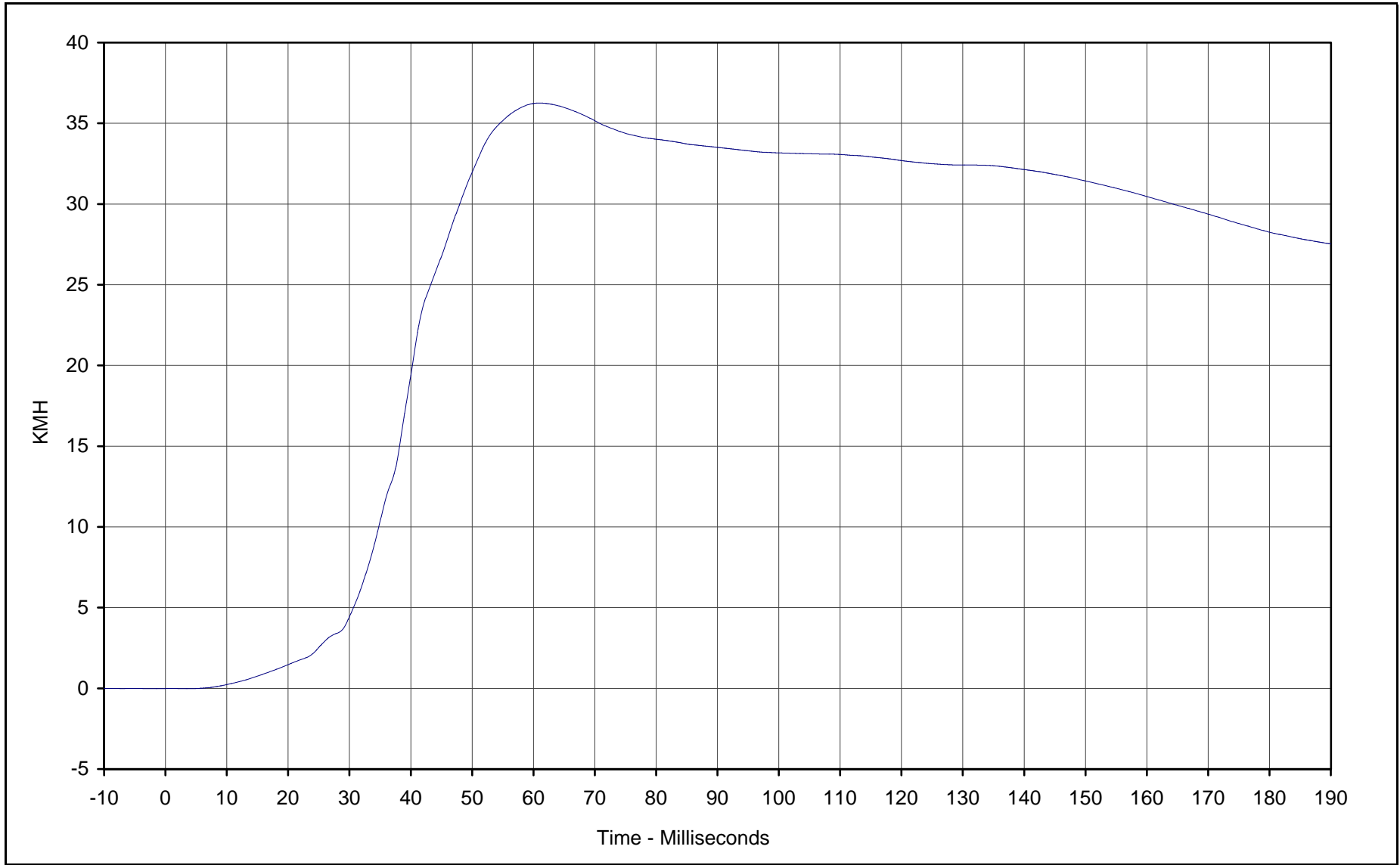


Curve Description: Pass. Pelvis Primary Y
Maximum Value: 87.2 at 38.2 Milliseconds
Minimum Value: -7.3 at 69.7 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-020

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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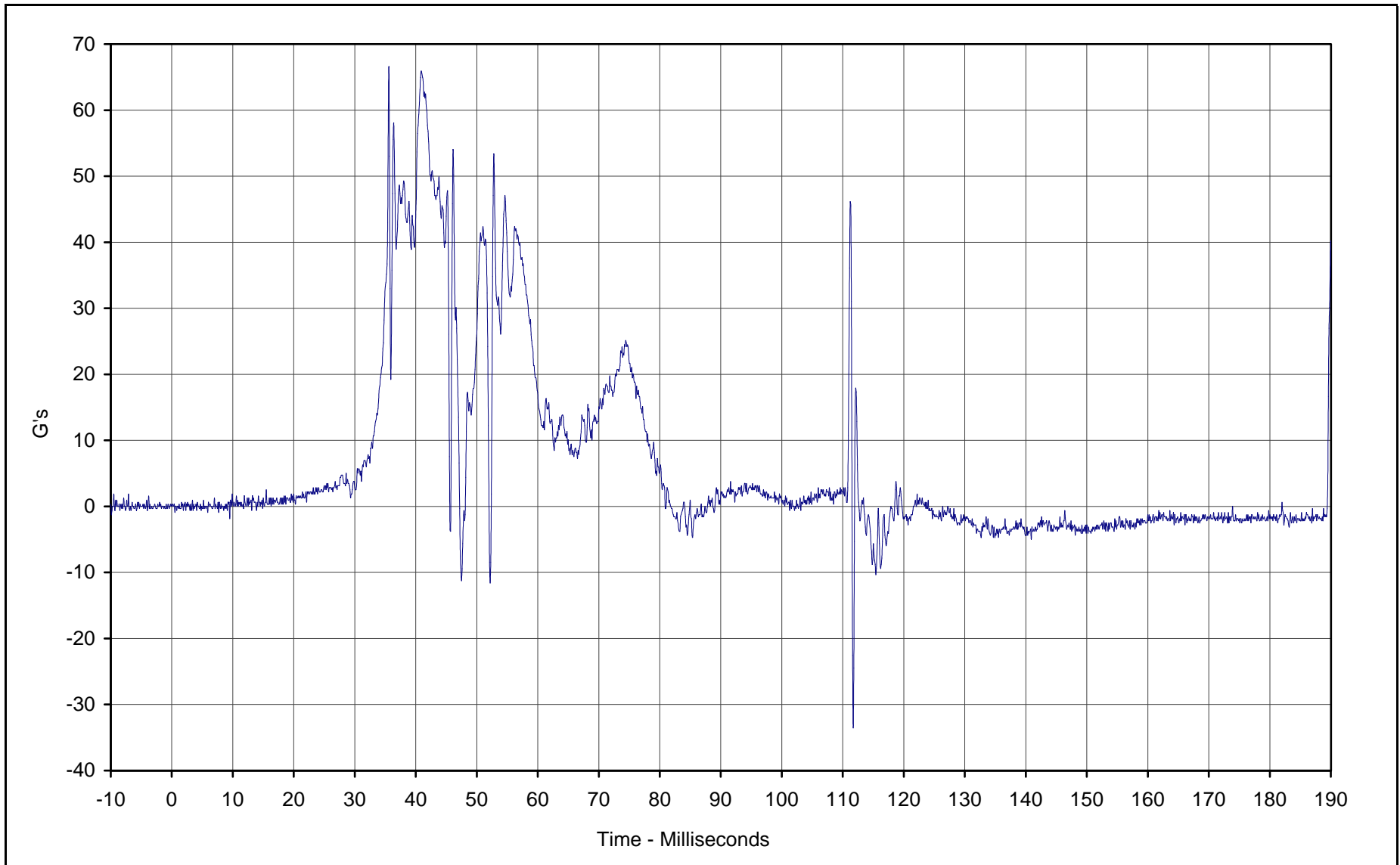
Curve Description: Pass. Pelvis Primary Y Velocity
Maximum Value: 36.3 at 61.0 Milliseconds
Minimum Value: 0.0 at 3.8 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-020

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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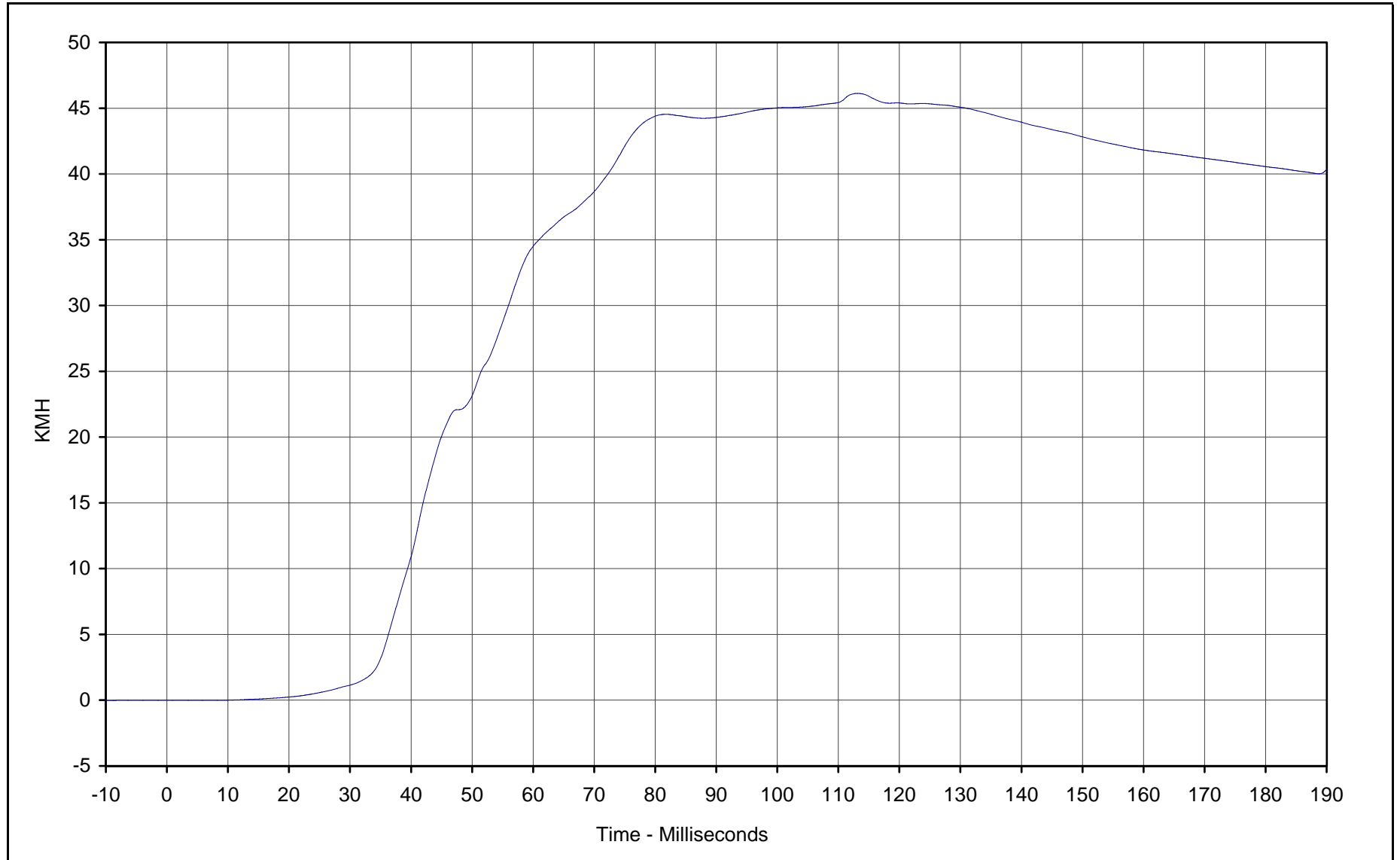


Curve Description: Pass. Upper Rib Redundant Y
Maximum Value: 66.5 at 35.6 Milliseconds
Minimum Value: -33.6 at 111.7 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-021

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Pass. Upper Rib Redundant Y Velocity

Maximum Value: 46.1 at 113.2 Milliseconds

Minimum Value: 0.0 at 5.9 Milliseconds

SAE Filter Class: 180

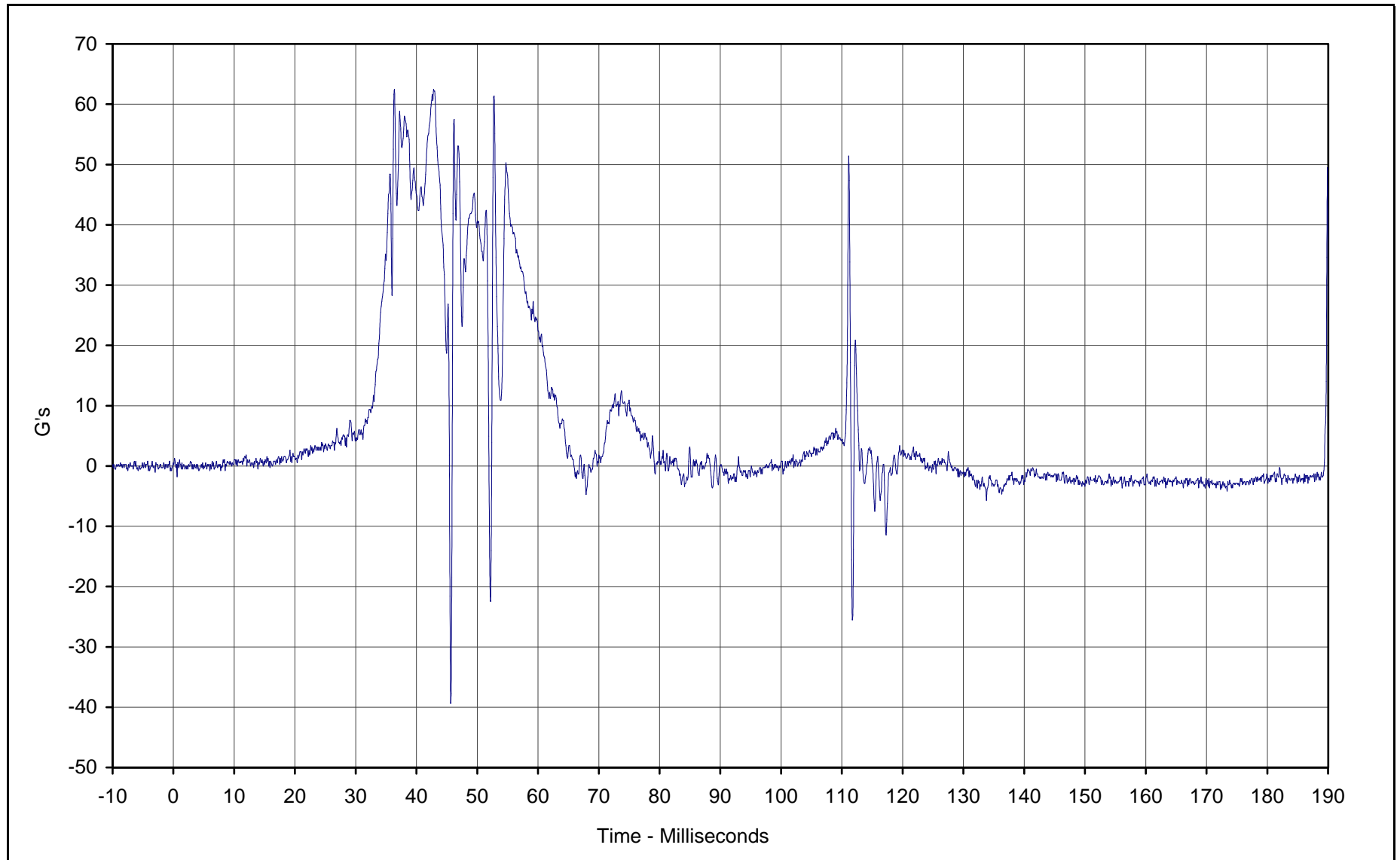
Date of Test: 12/22/00

Curve Number: IN1-021

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



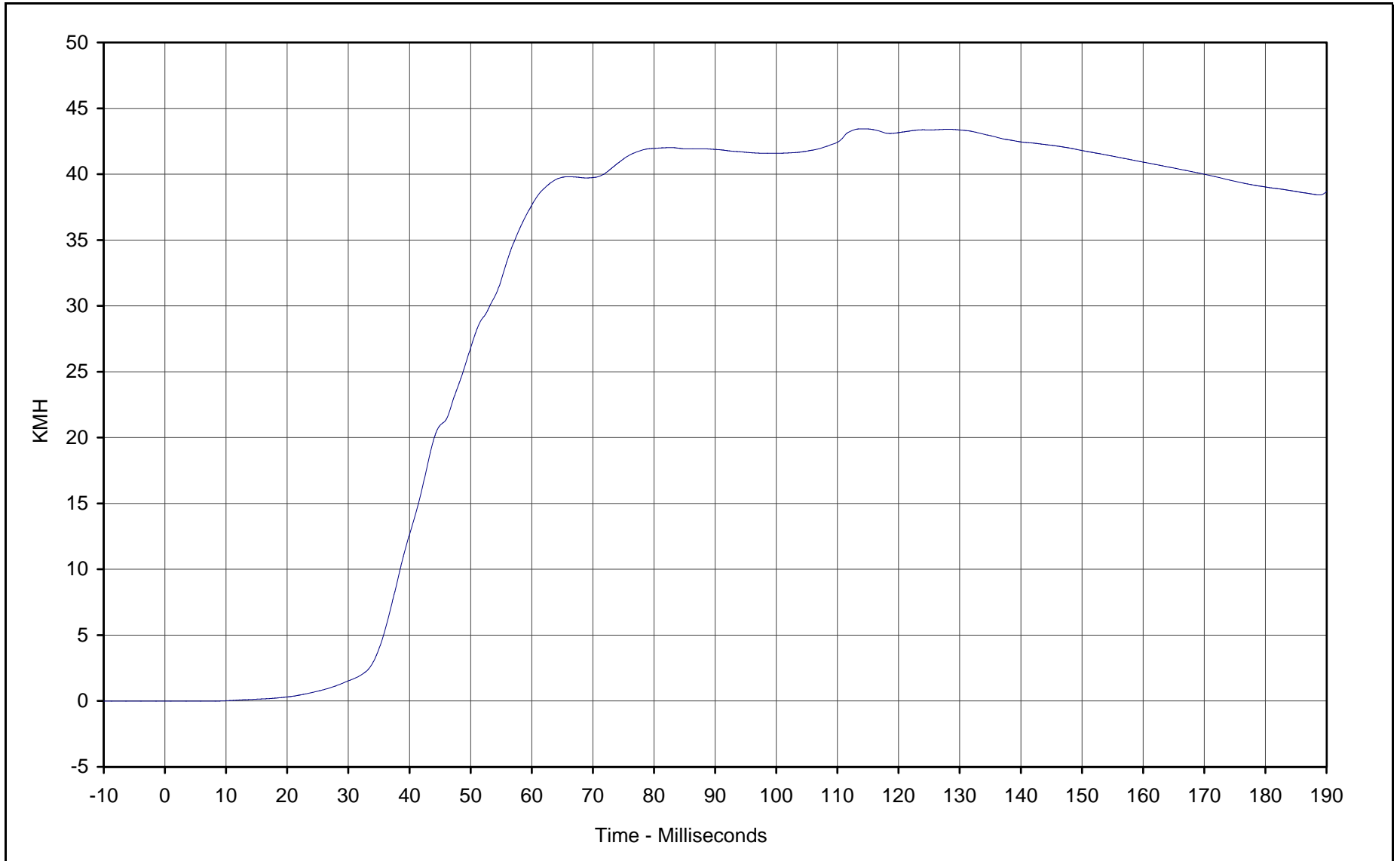


Curve Description: Pass. Lower Rib Redundant Y
Maximum Value: 62.4 at 36.4 Milliseconds
Minimum Value: -39.3 at 45.6 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-022

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Pass. Lower Rib Redundant Y Velocity

Maximum Value: 43.4 at 114.7 Milliseconds

Minimum Value: 0.0 at 5.7 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-022

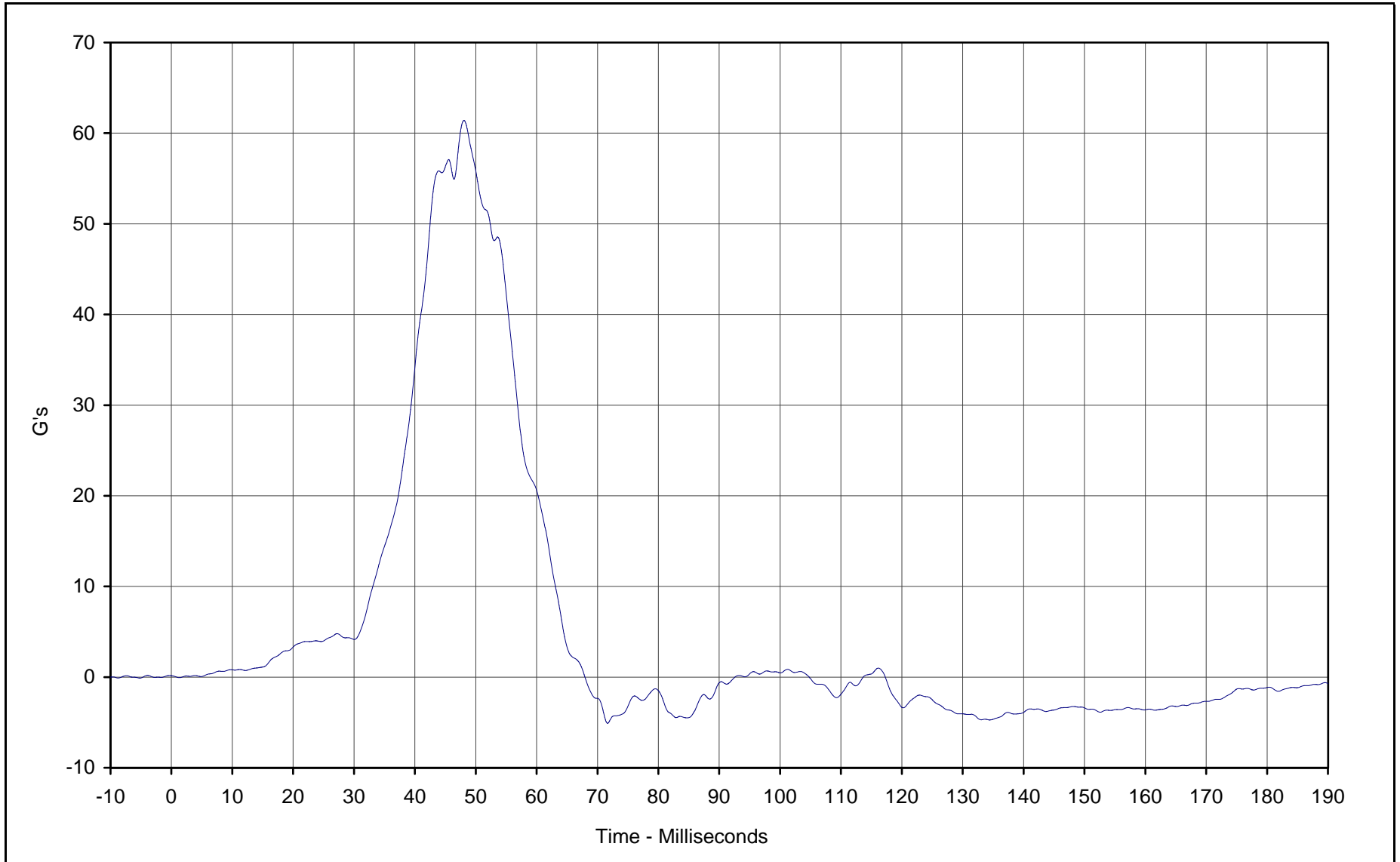
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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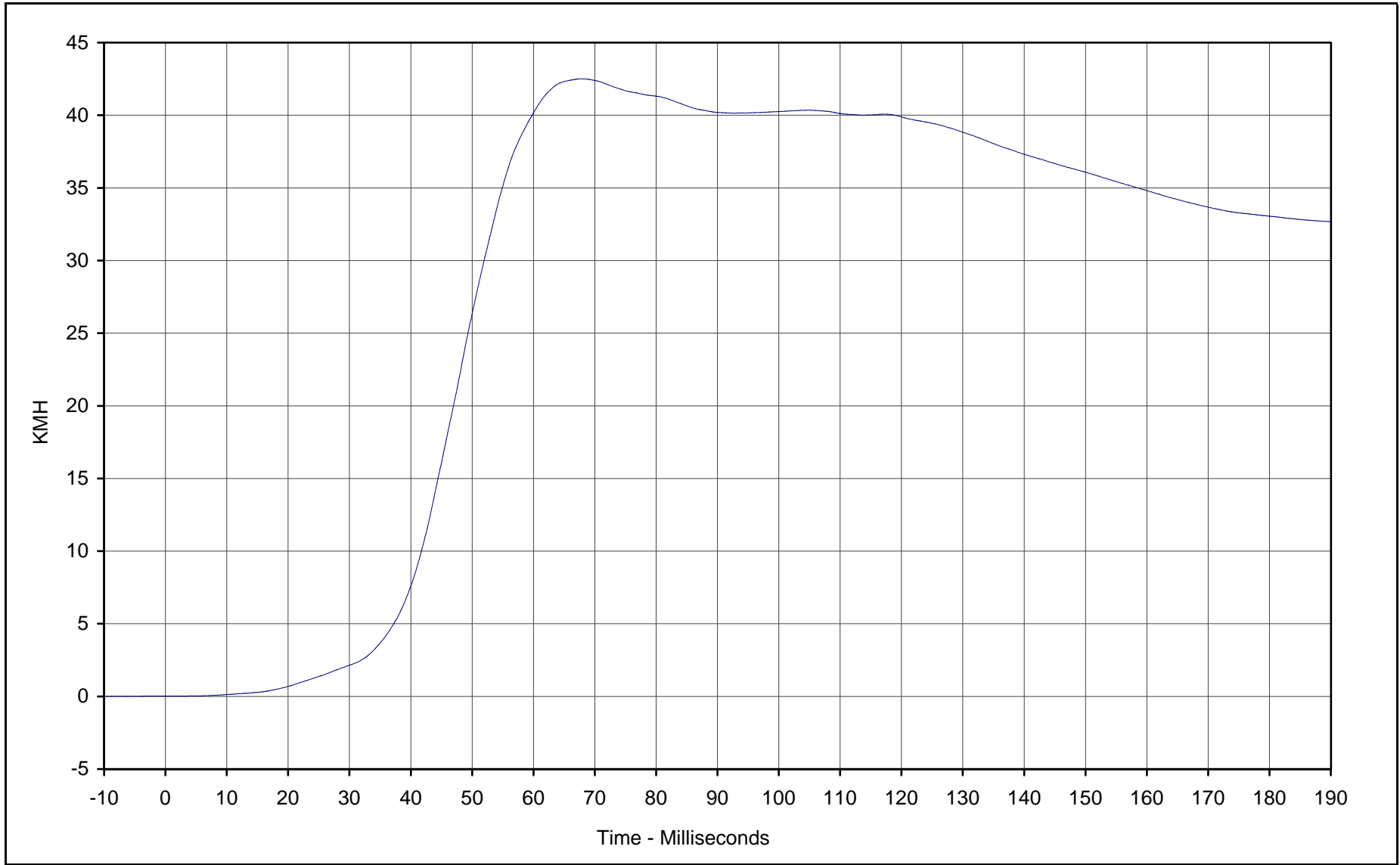
Curve Description: Pass. Lower Spine Redundant Y
Maximum Value: 61.4 at 48.1 Milliseconds
Minimum Value: -5.1 at 71.7 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: FIL-023

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Pass. Lower Spine Redundant Y Velocity

Maximum Value: 42.5 at 67.9 Milliseconds

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-023

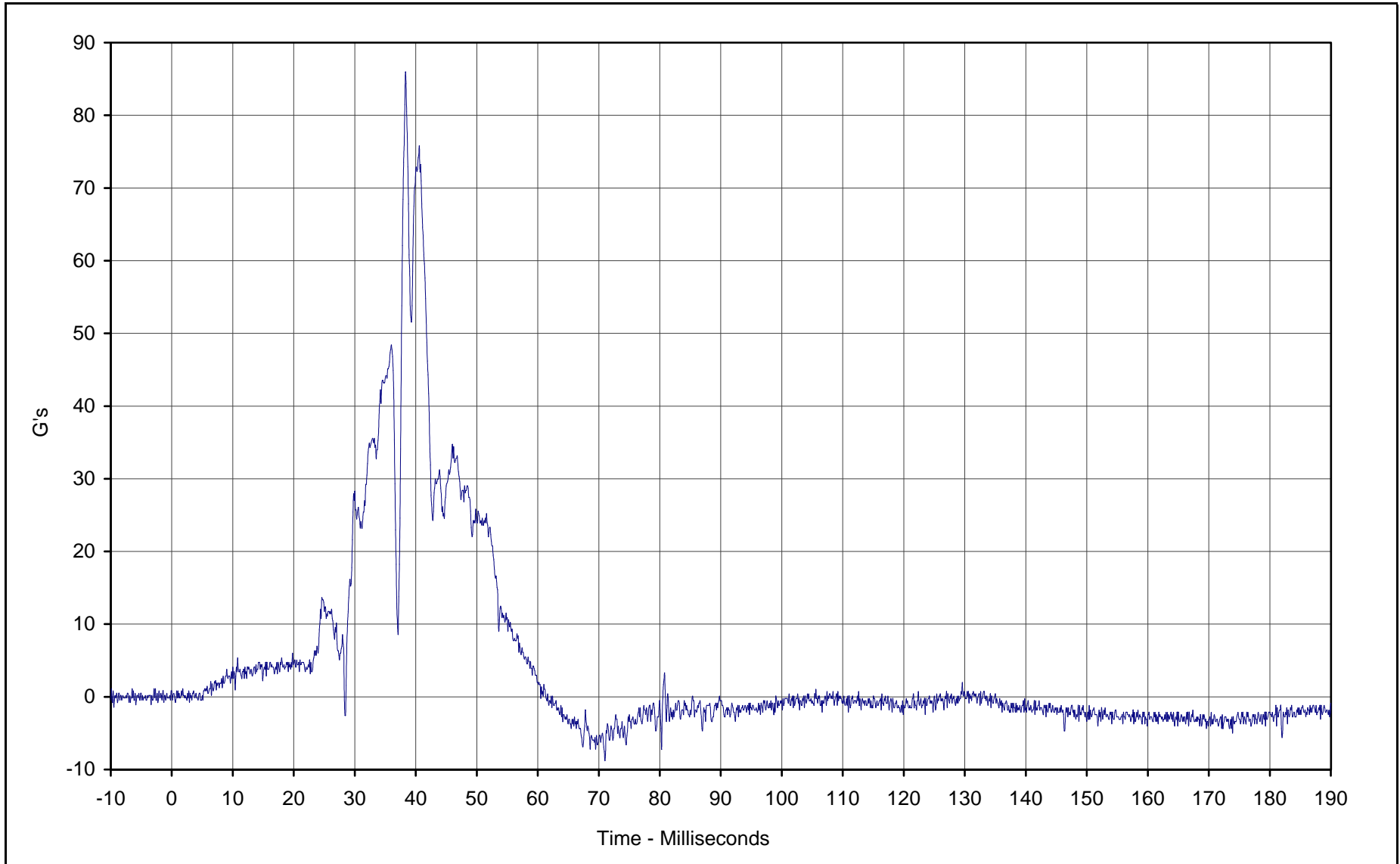
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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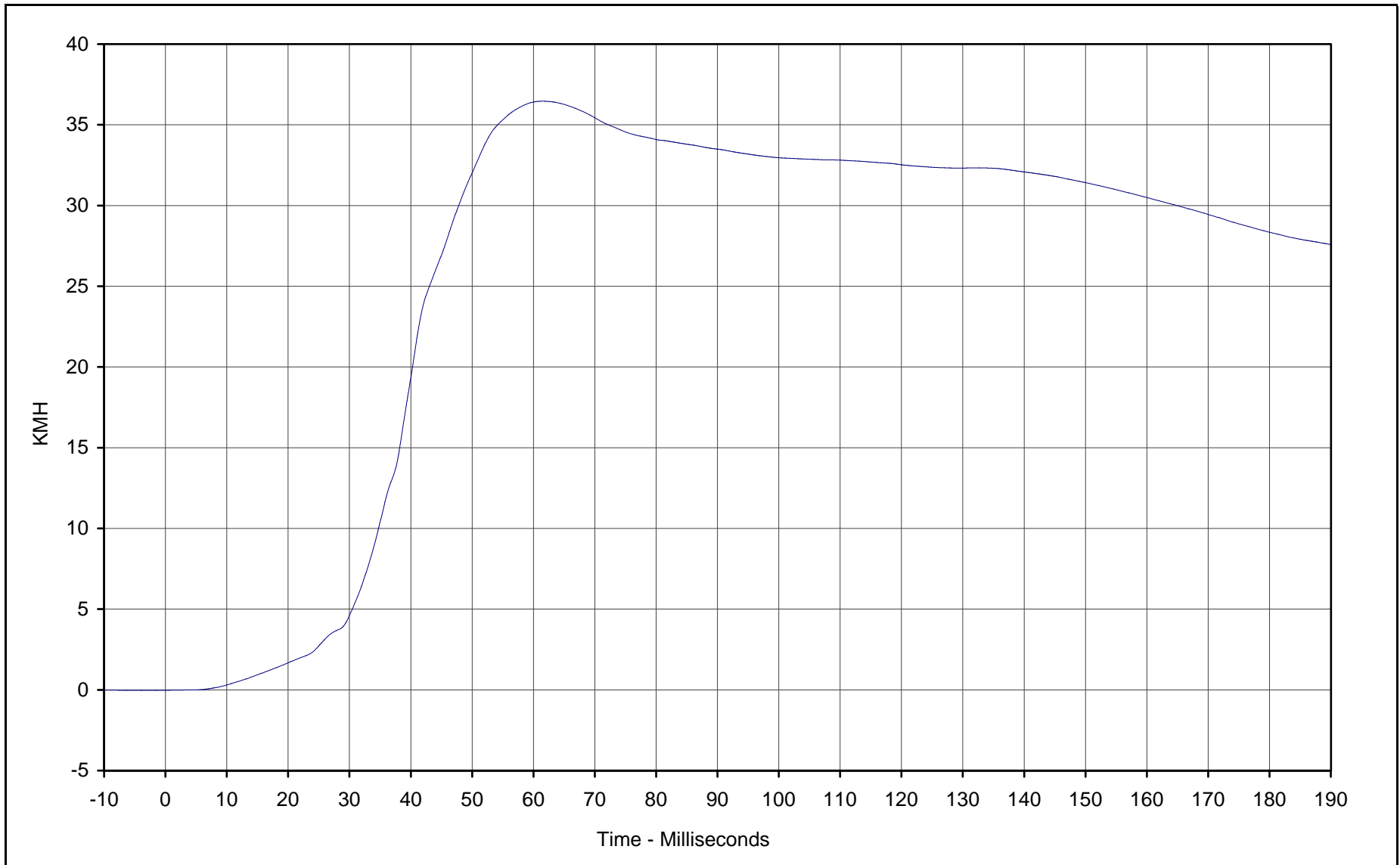
Curve Description: Pass. Pelvis Redundant Y
Maximum Value: 85.9 at 38.3 Milliseconds
Minimum Value: -8.8 at 71.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-024

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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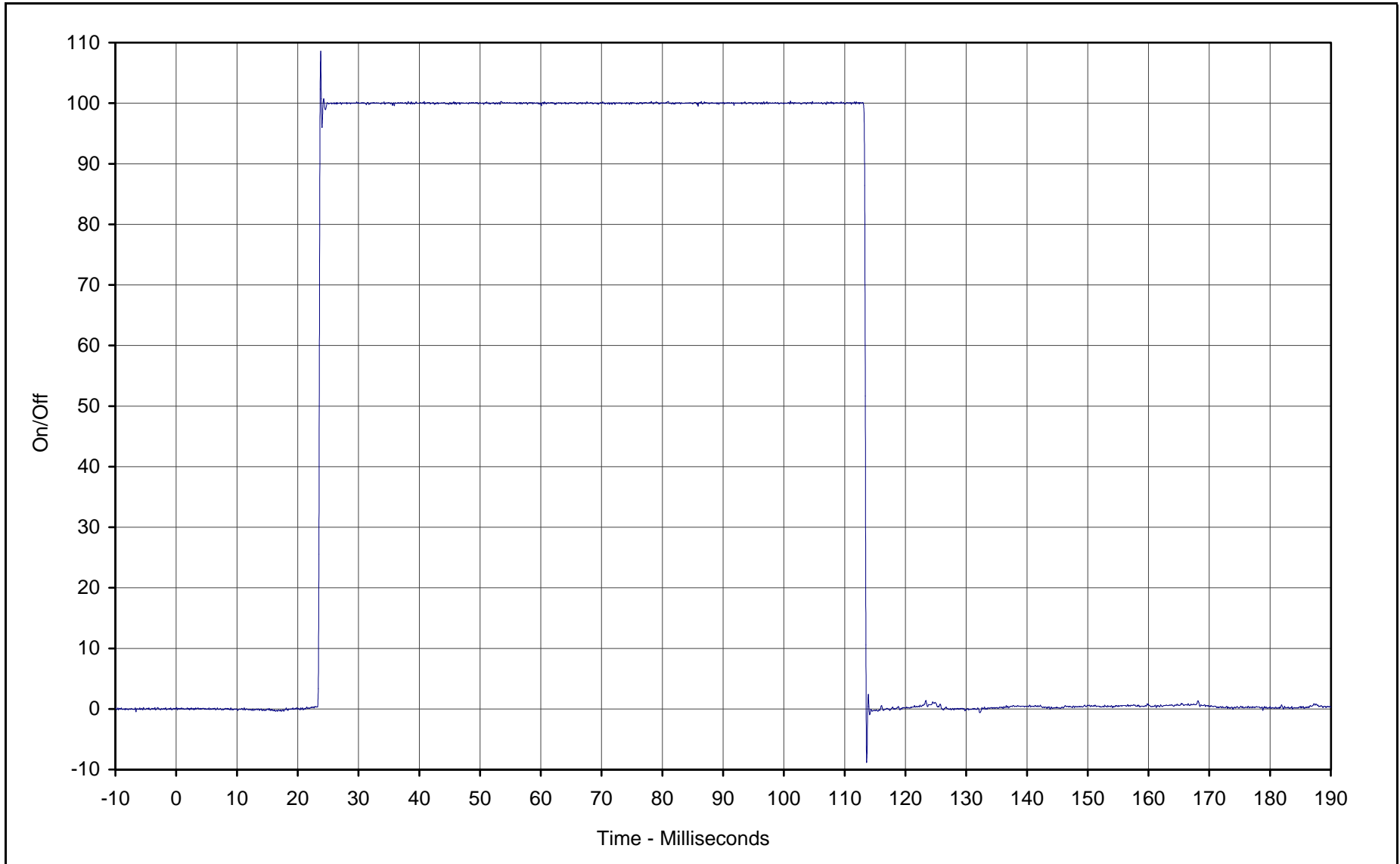
Curve Description: Pass. Pelvis Redundant Y Velocity
Maximum Value: 36.5 at 61.5 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-024

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

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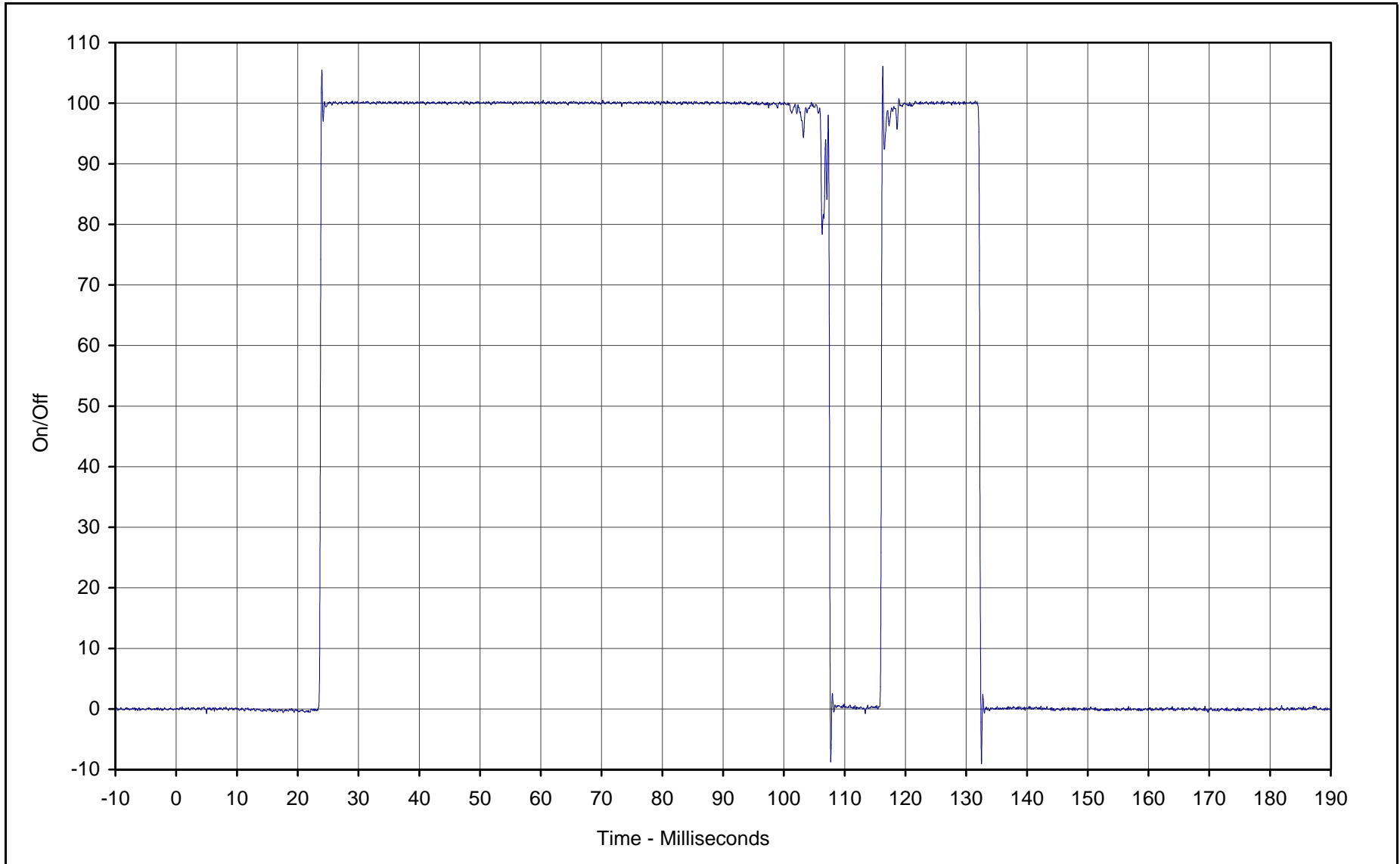


Curve Description: Pass. Thorax Contact
Maximum Value: 108.6 at 23.8 Milliseconds
Crossing Point: 50% at 23.6 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-025

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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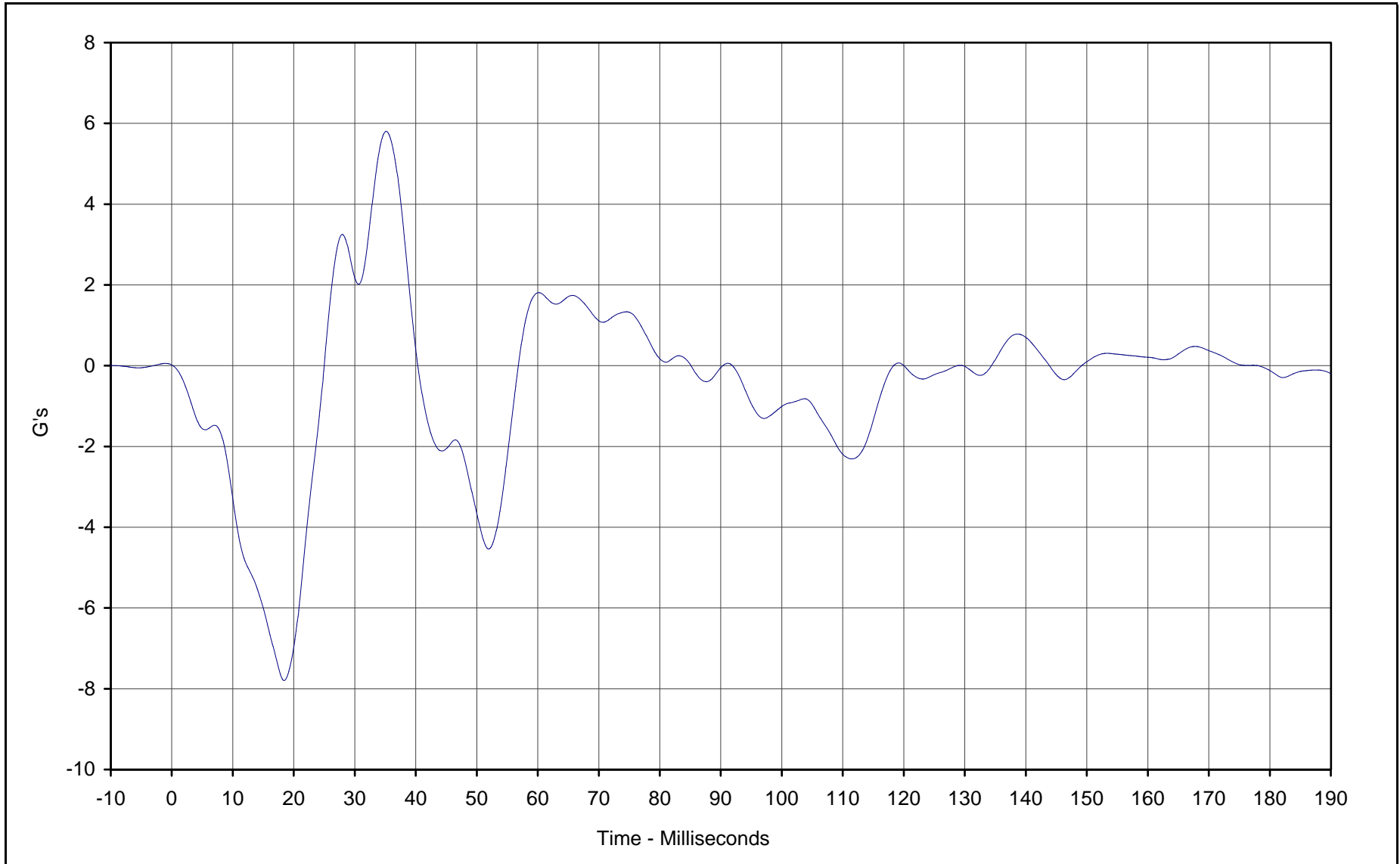


Curve Description: Pass. Pelvis Contact
Maximum Value: 106.1 at 116.3 Milliseconds
Crossing Point: 50% at 23.8 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-026

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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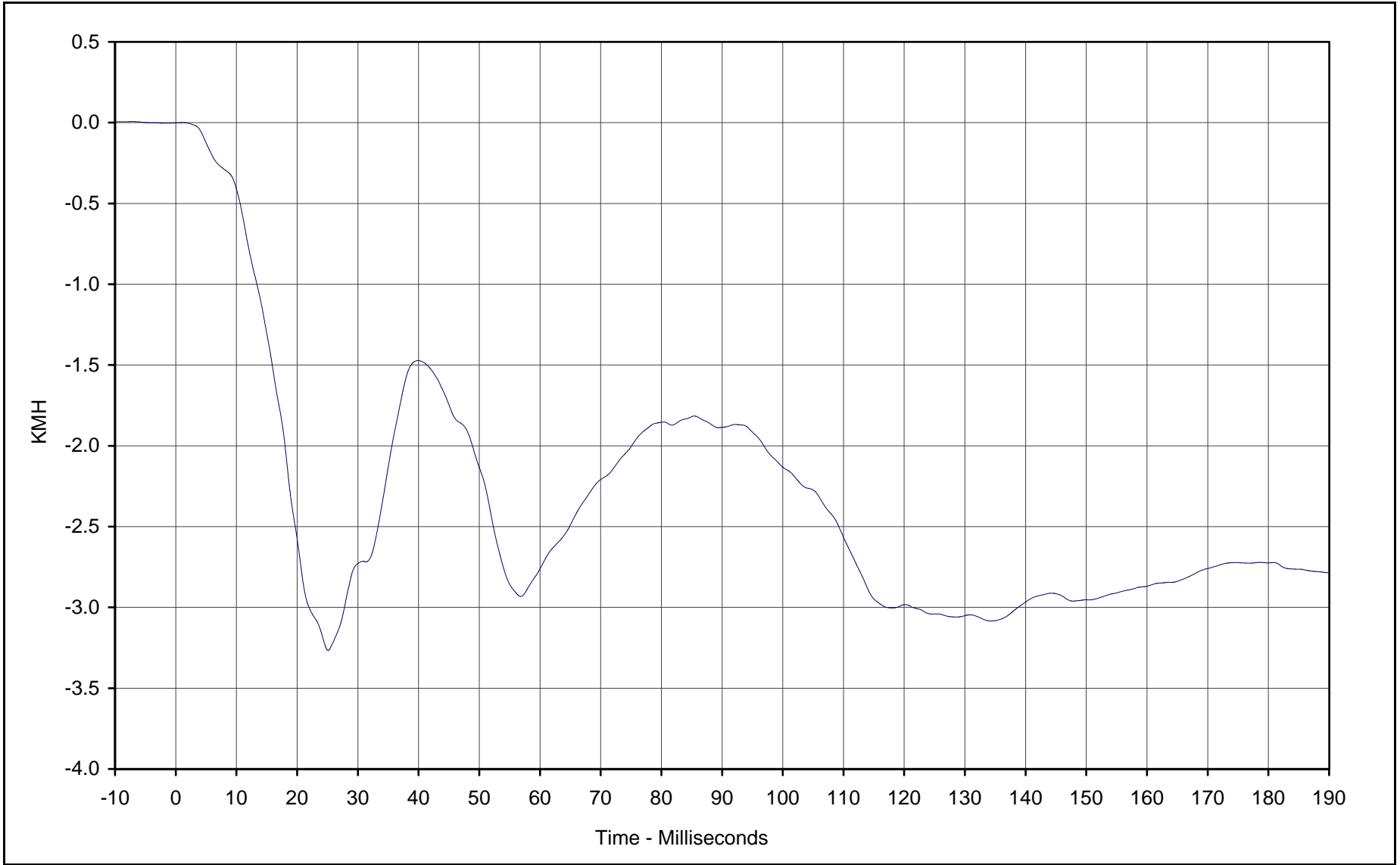
Curve Description: Right Sill at Front Seat X
Maximum Value: 5.8 at 35.2 Milliseconds
Minimum Value: -7.8 at 18.4 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-027

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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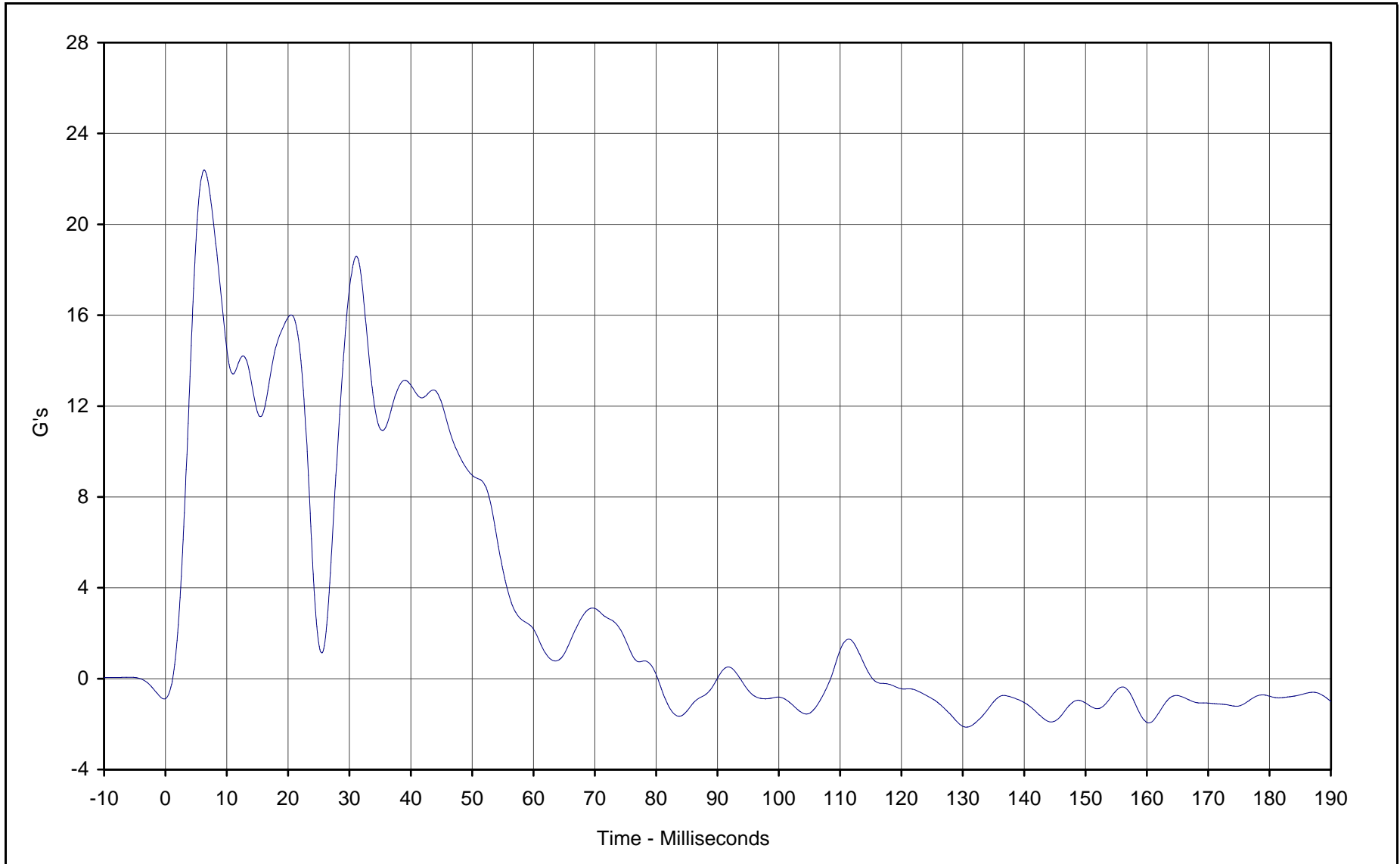
Curve Description: Right Sill at Front Seat X Velocity
Maximum Value: 0.0 at 1.2 Milliseconds
Minimum Value: -3.3 at 25.1 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-027

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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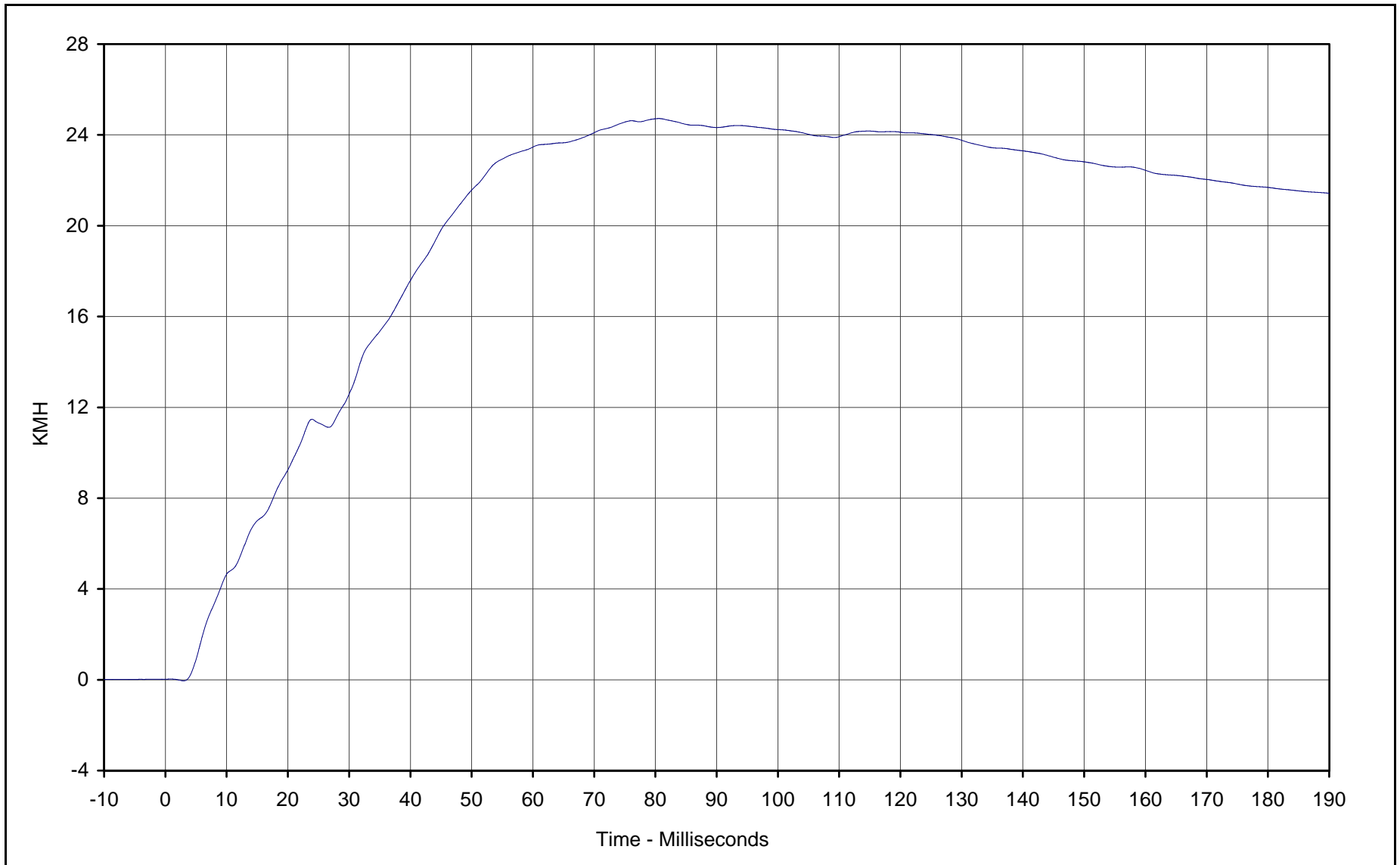
Curve Description: Right Sill at Front Seat Y
Maximum Value: 22.4 at 6.3 Milliseconds
Minimum Value: -2.1 at 130.6 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-028

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Right Sill at Front Seat Y Velocity

Maximum Value: 24.7 at 80.6 Milliseconds

Minimum Value: 0.0 at 3.0 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-028

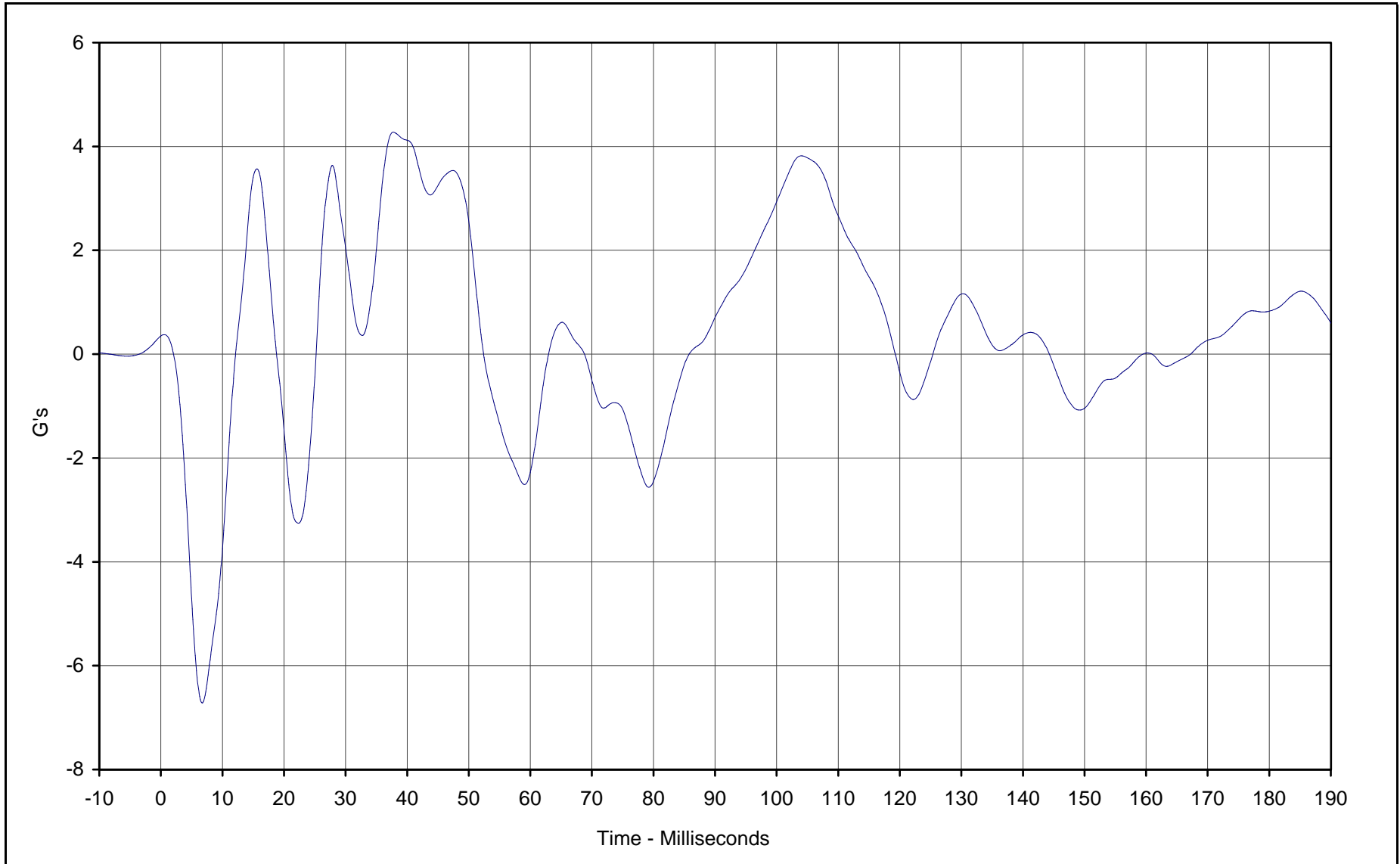
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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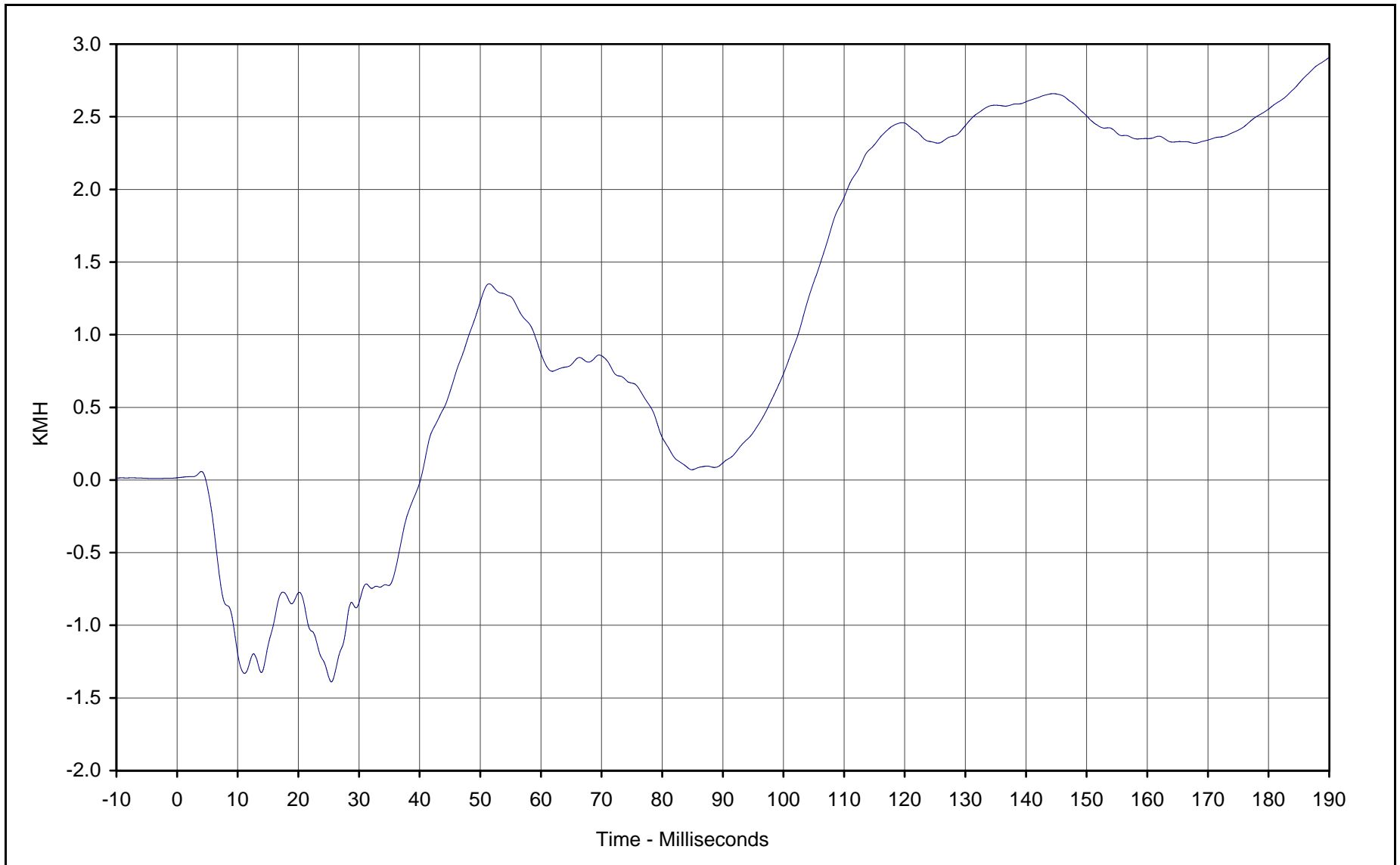
Curve Description: Right Sill at Front Seat Z
Maximum Value: 4.3 at 37.8 Milliseconds
Minimum Value: -6.7 at 6.7 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-029

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Right Sill at Front Seat Z Velocity

Maximum Value: 2.9 at 189.9 Milliseconds

Minimum Value: -1.4 at 25.5 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-029

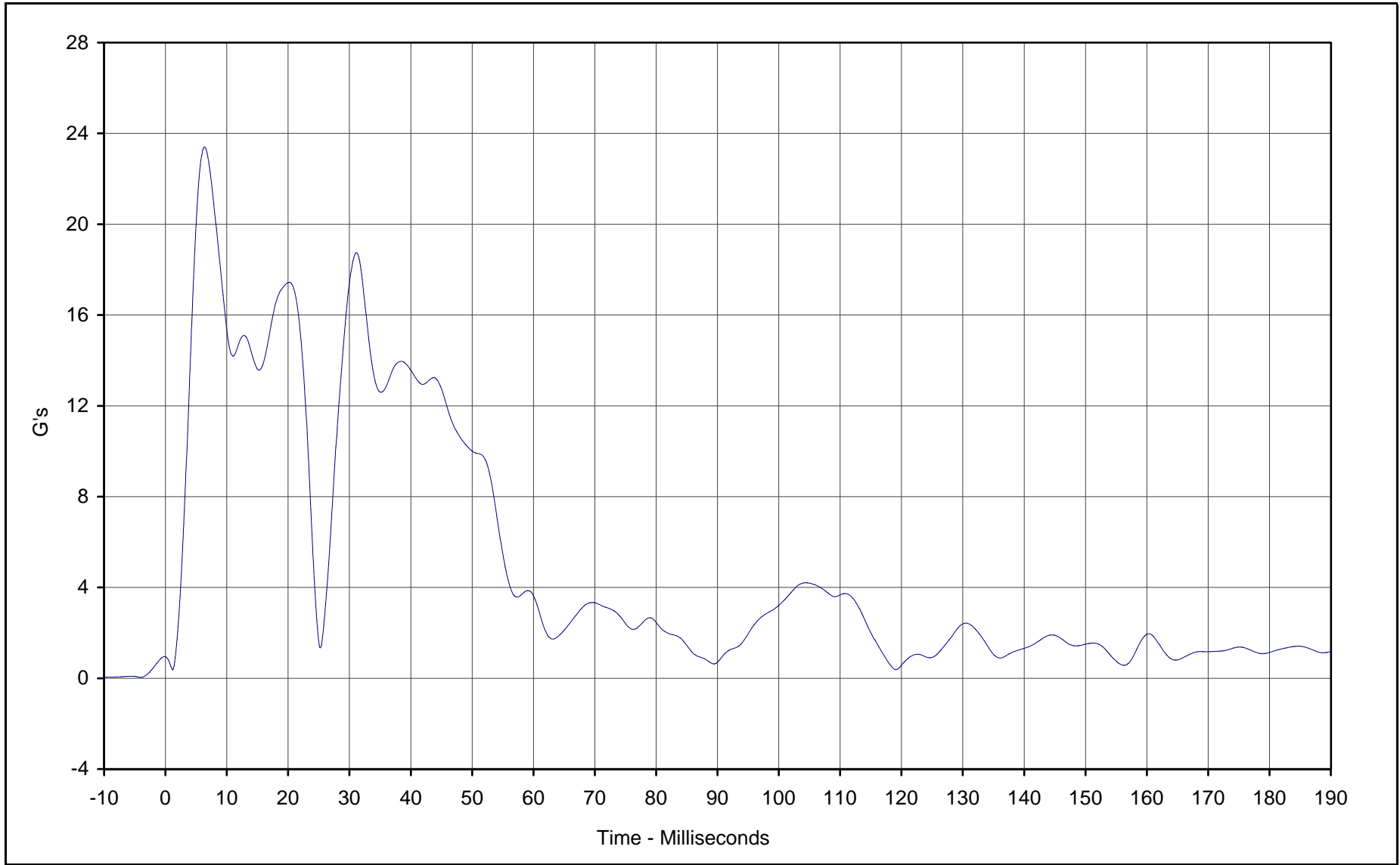
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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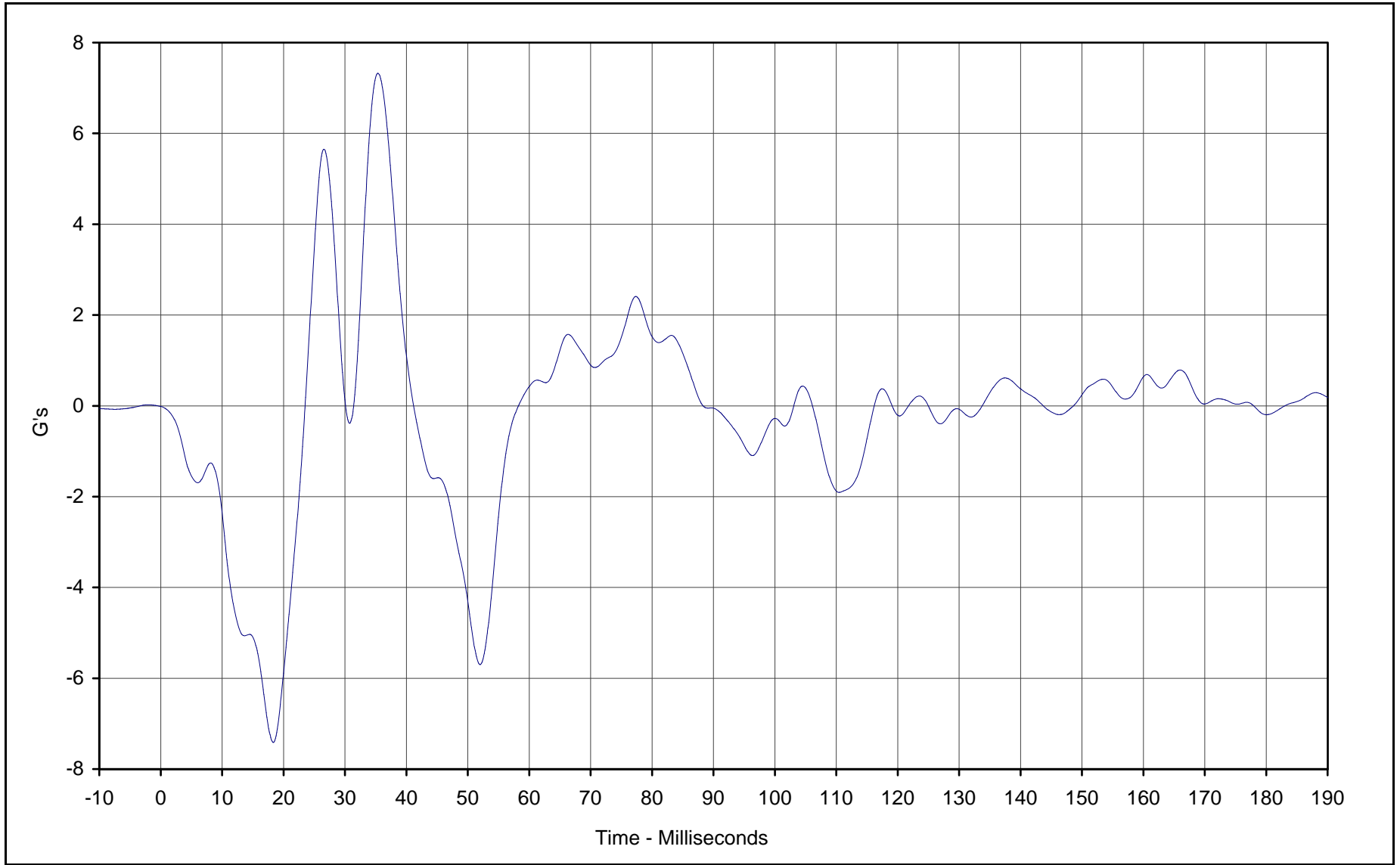
Curve Description: Right Sill at Front Seat Resultant
Maximum Value: 23.4 at 6.4 Milliseconds
Minimum Value: 0.4 at 1.2 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: RES-027

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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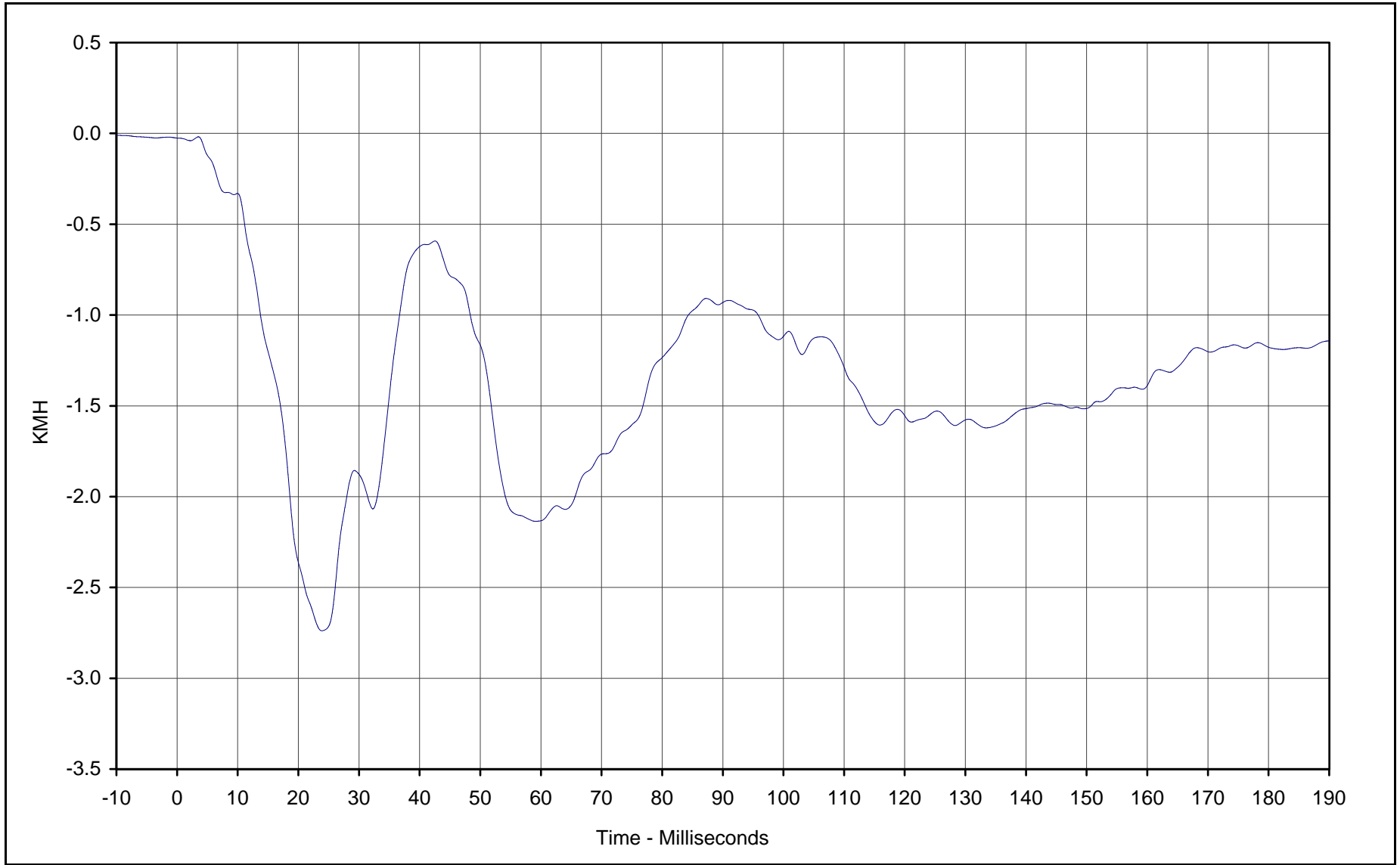
Curve Description: Right Sill at Rear Seat X
Maximum Value: 7.3 at 35.4 Milliseconds
Minimum Value: -7.4 at 18.3 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-030

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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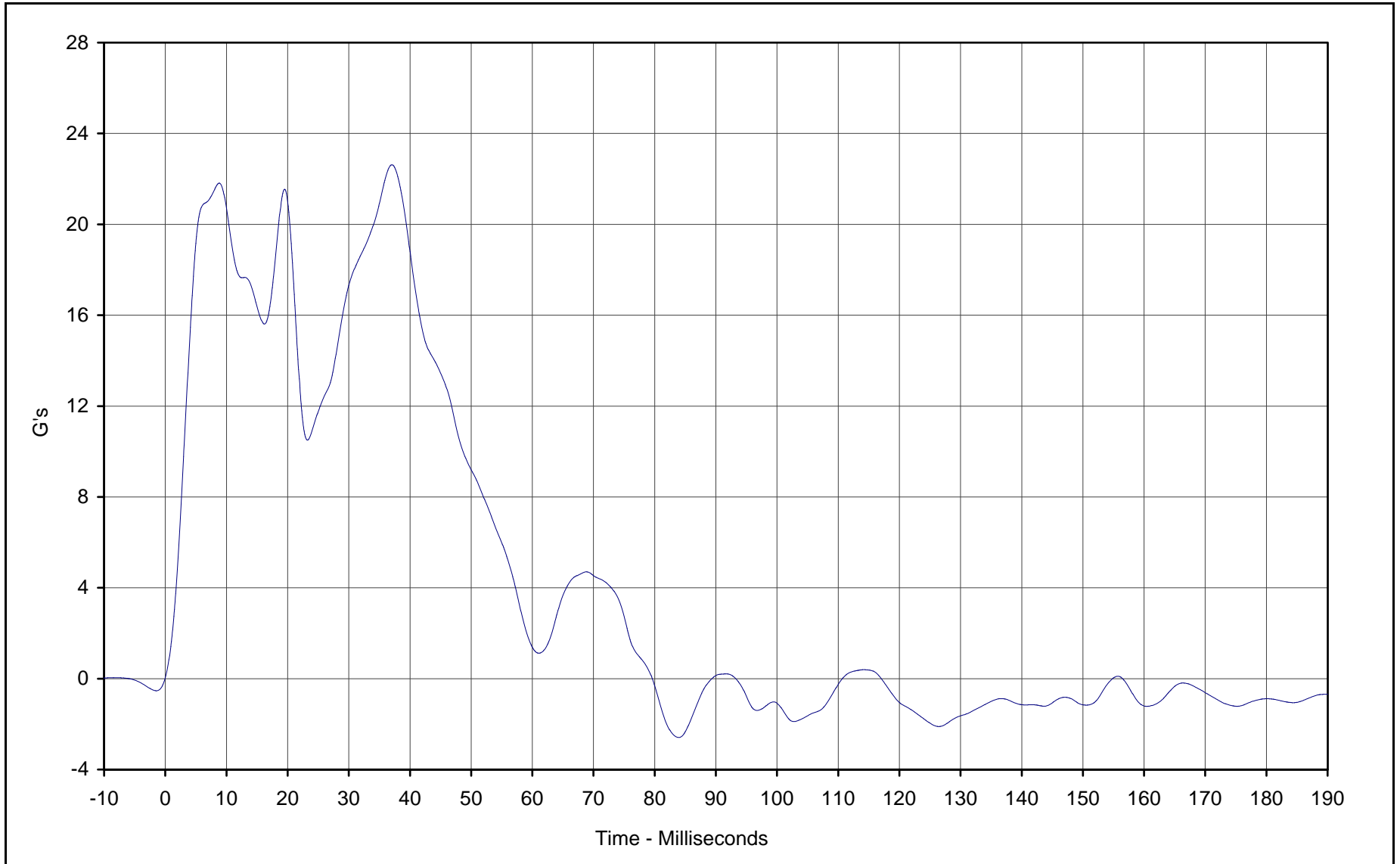
Curve Description: Right Sill at Rear Seat X Velocity
Maximum Value: 0.0 at 3.5 Milliseconds
Minimum Value: -2.7 at 23.9 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-030

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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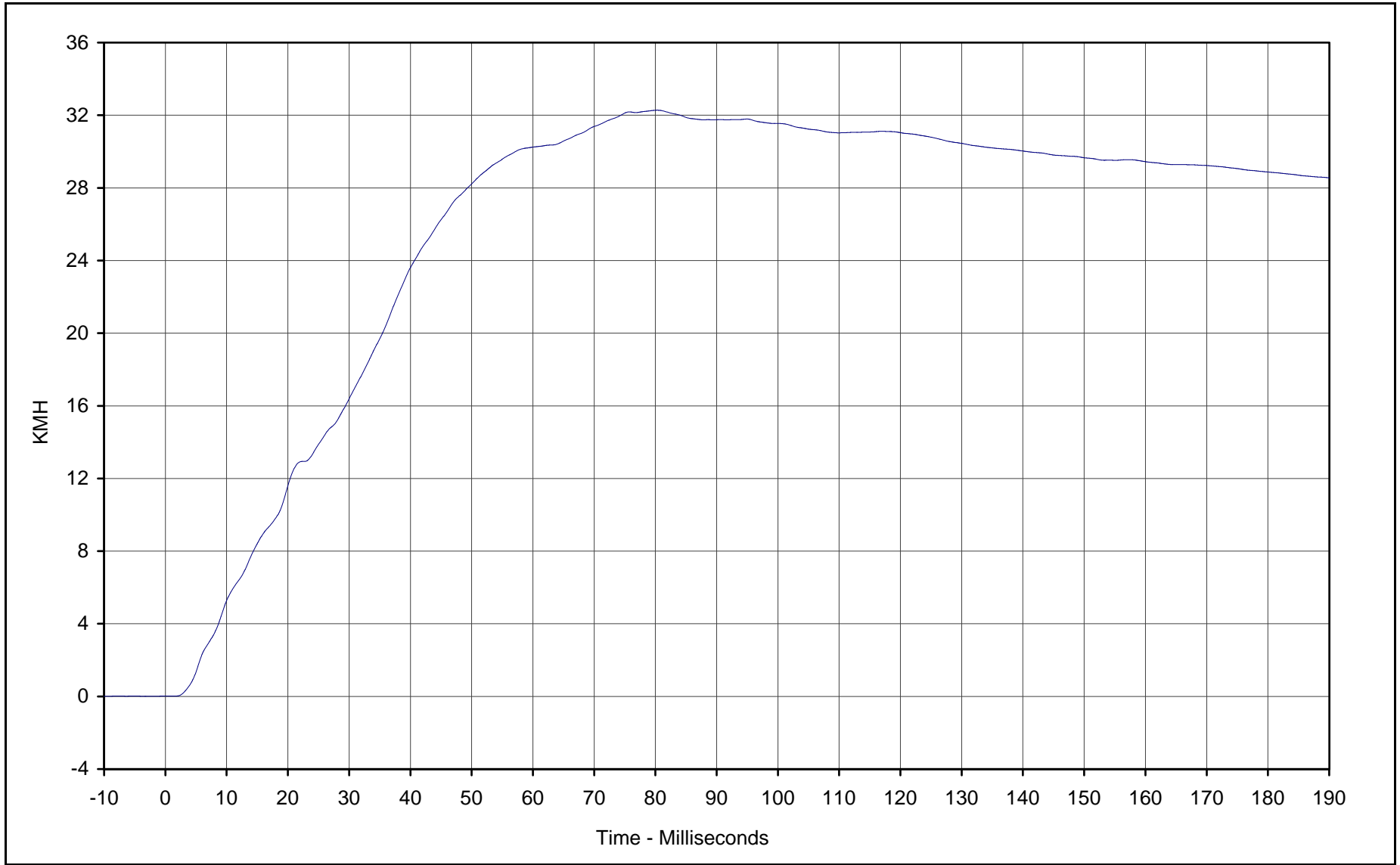
Curve Description: Right Sill at Rear Seat Y
Maximum Value: 22.6 at 37.0 Milliseconds
Minimum Value: -2.6 at 83.9 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-031

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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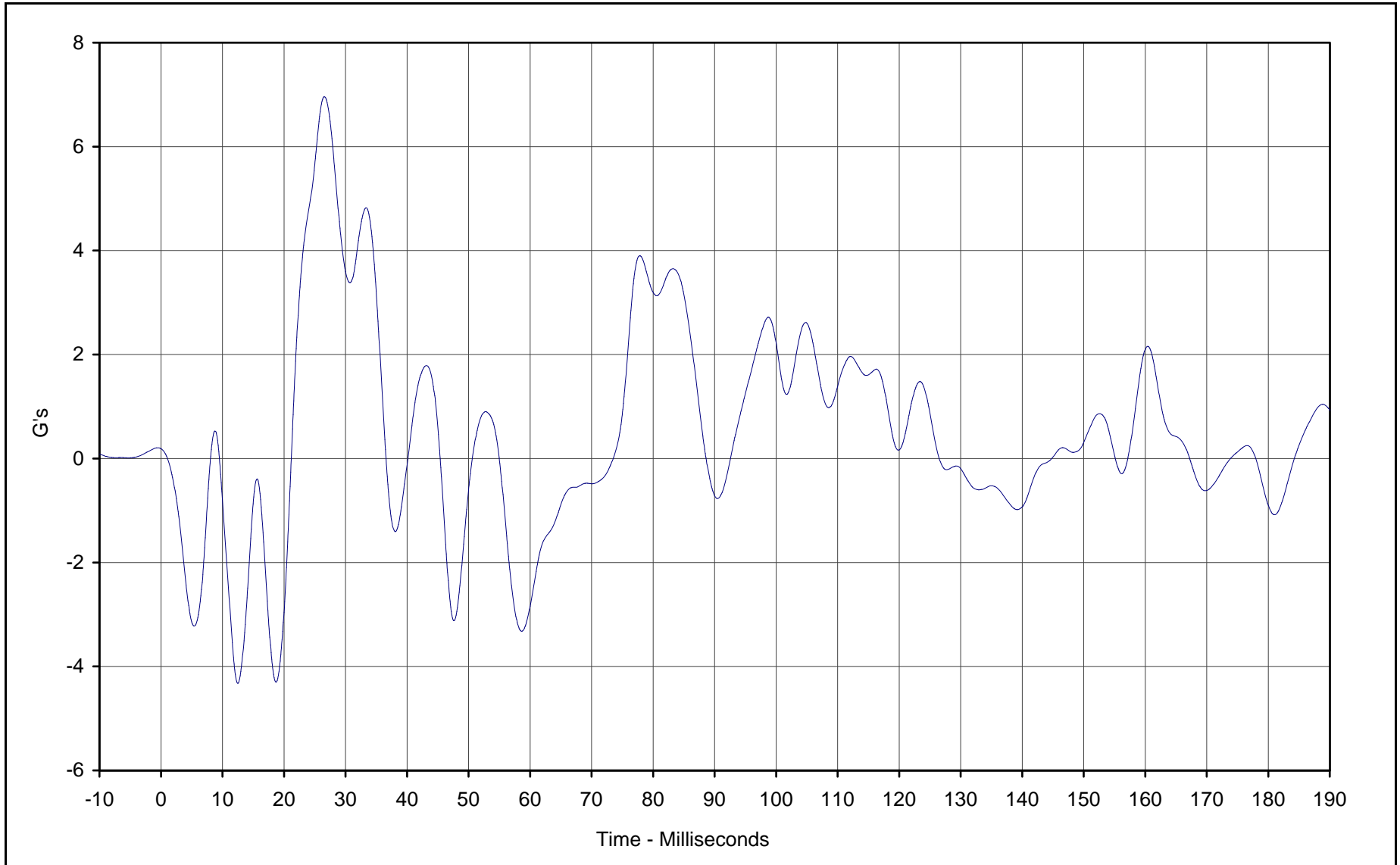
Curve Description: Right Sill at Rear Seat Y Velocity
Maximum Value: 32.3 at 80.3 Milliseconds
Minimum Value: 0.0 at 1.6 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-031

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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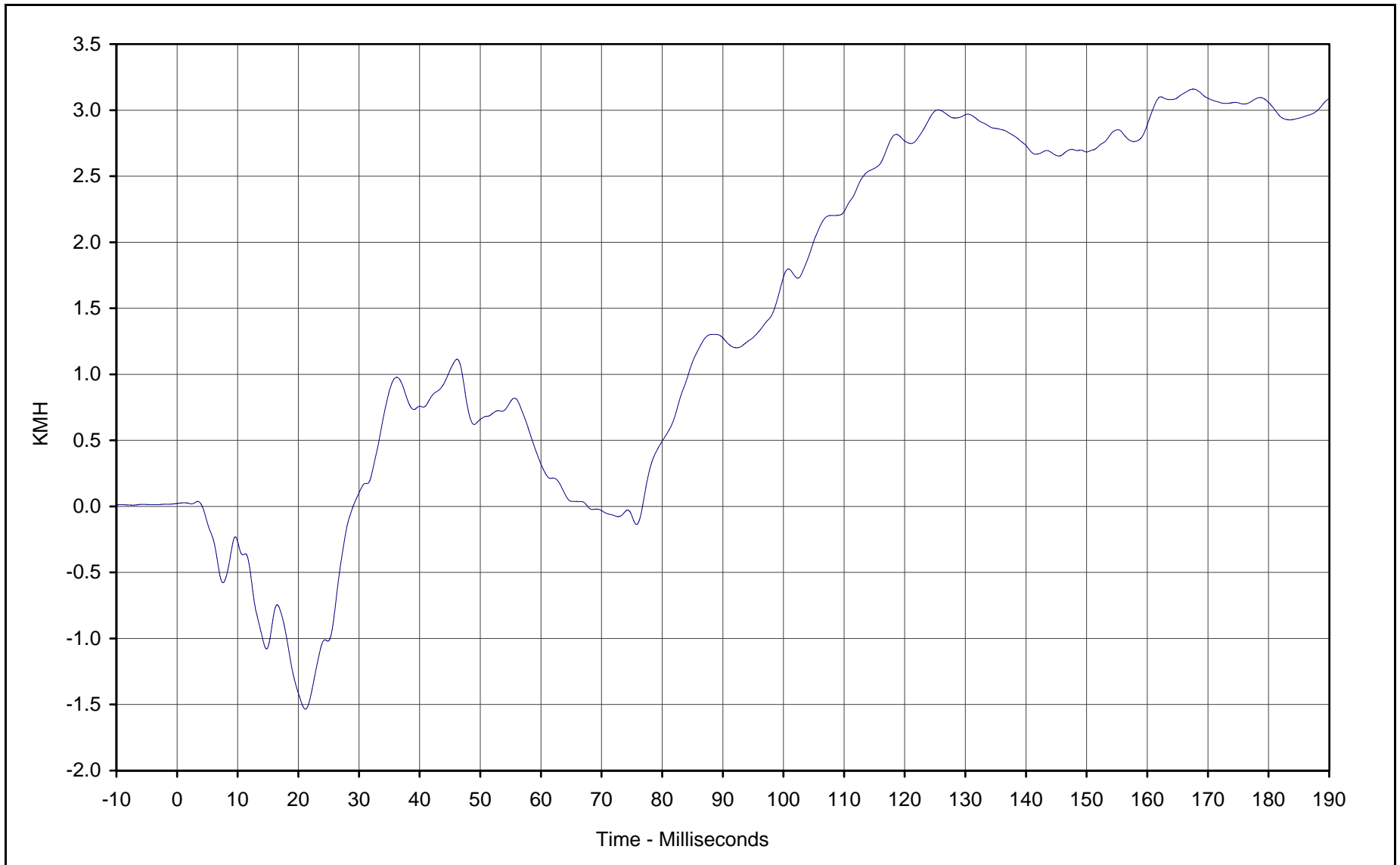
Curve Description: Right Sill at Rear Seat Z
Maximum Value: 7.0 at 26.6 Milliseconds
Minimum Value: -4.3 at 12.5 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-032

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Right Sill at Rear Seat Z Velocity

Maximum Value: 3.2 at 167.6 Milliseconds

Minimum Value: -1.5 at 21.2 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-032

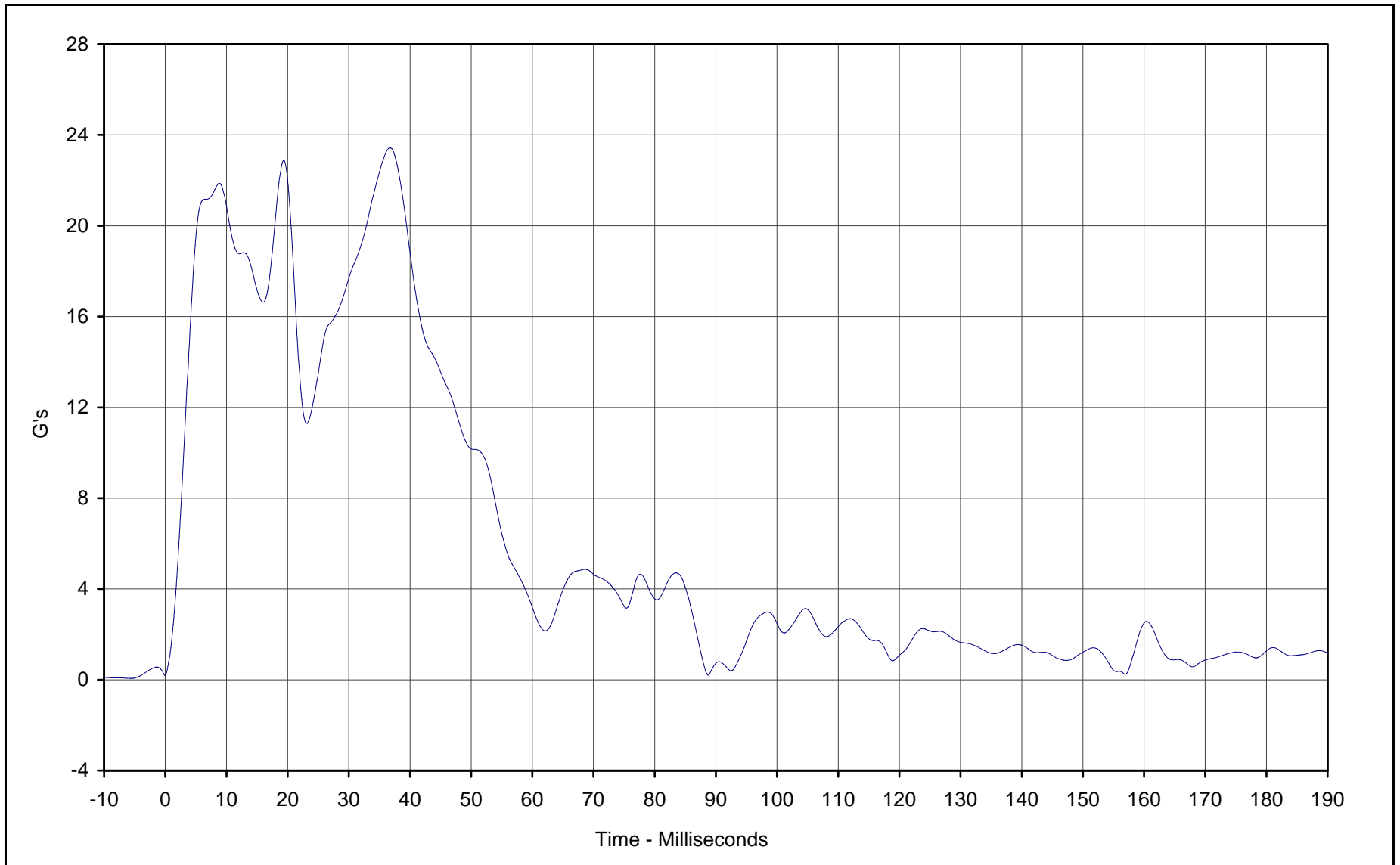
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

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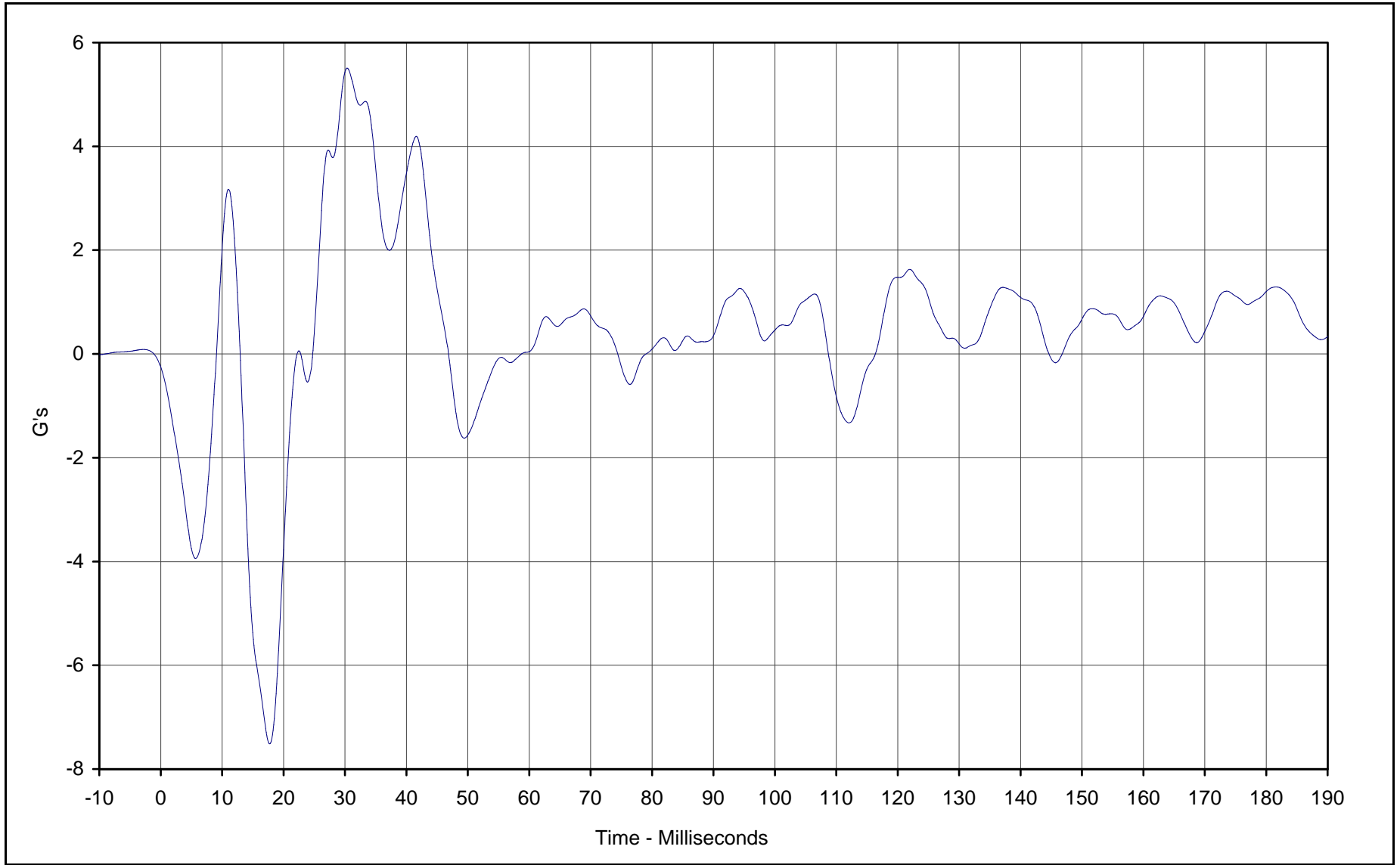
Curve Description: Right Sill at Rear Resultant
Maximum Value: 23.4 at 36.7 Milliseconds
Minimum Value: 0.2 at 0.0 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: RES-030

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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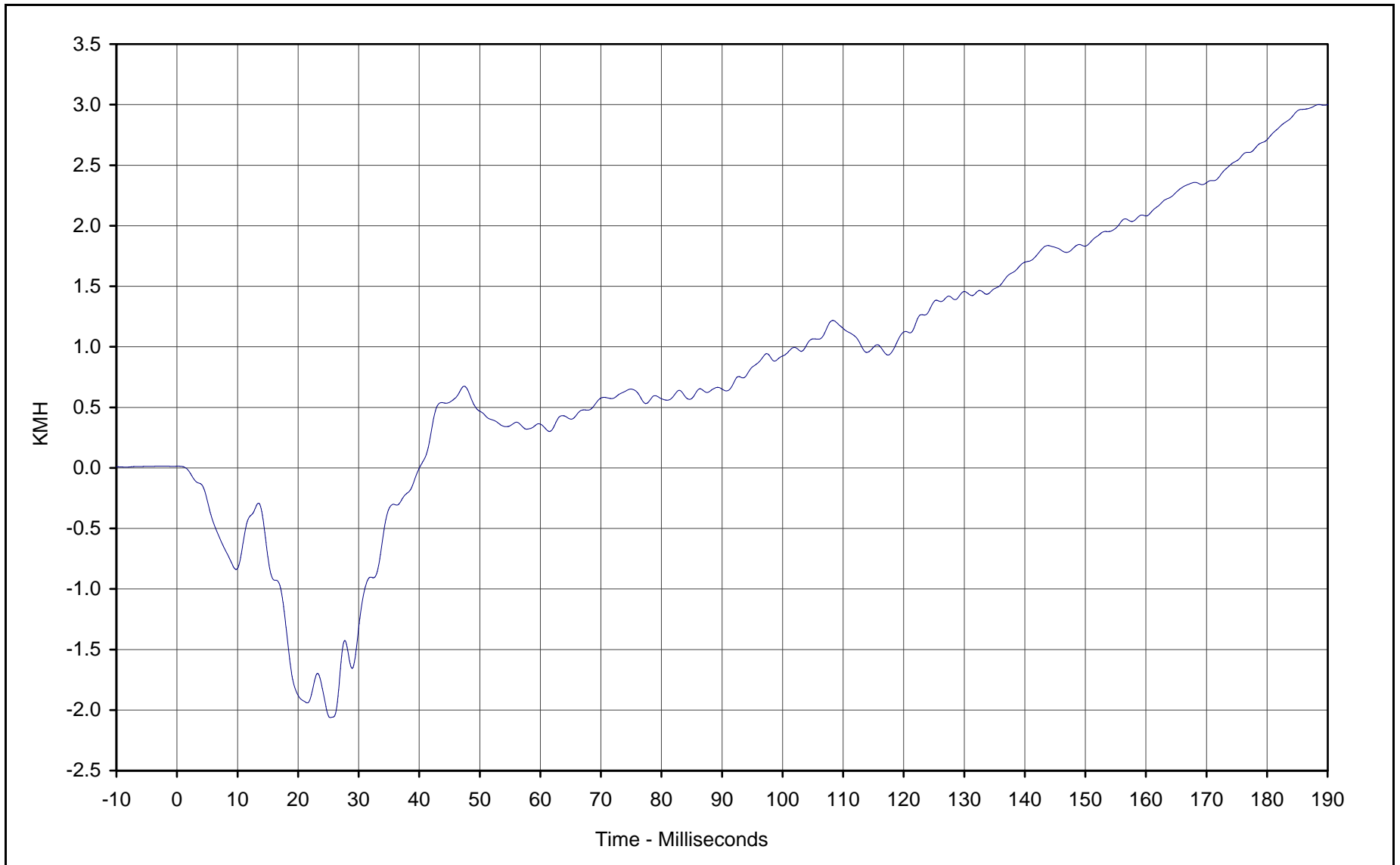
Curve Description: Rear Floor Above Axle X
Maximum Value: 5.5 at 30.4 Milliseconds
Minimum Value: -7.5 at 17.7 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-033

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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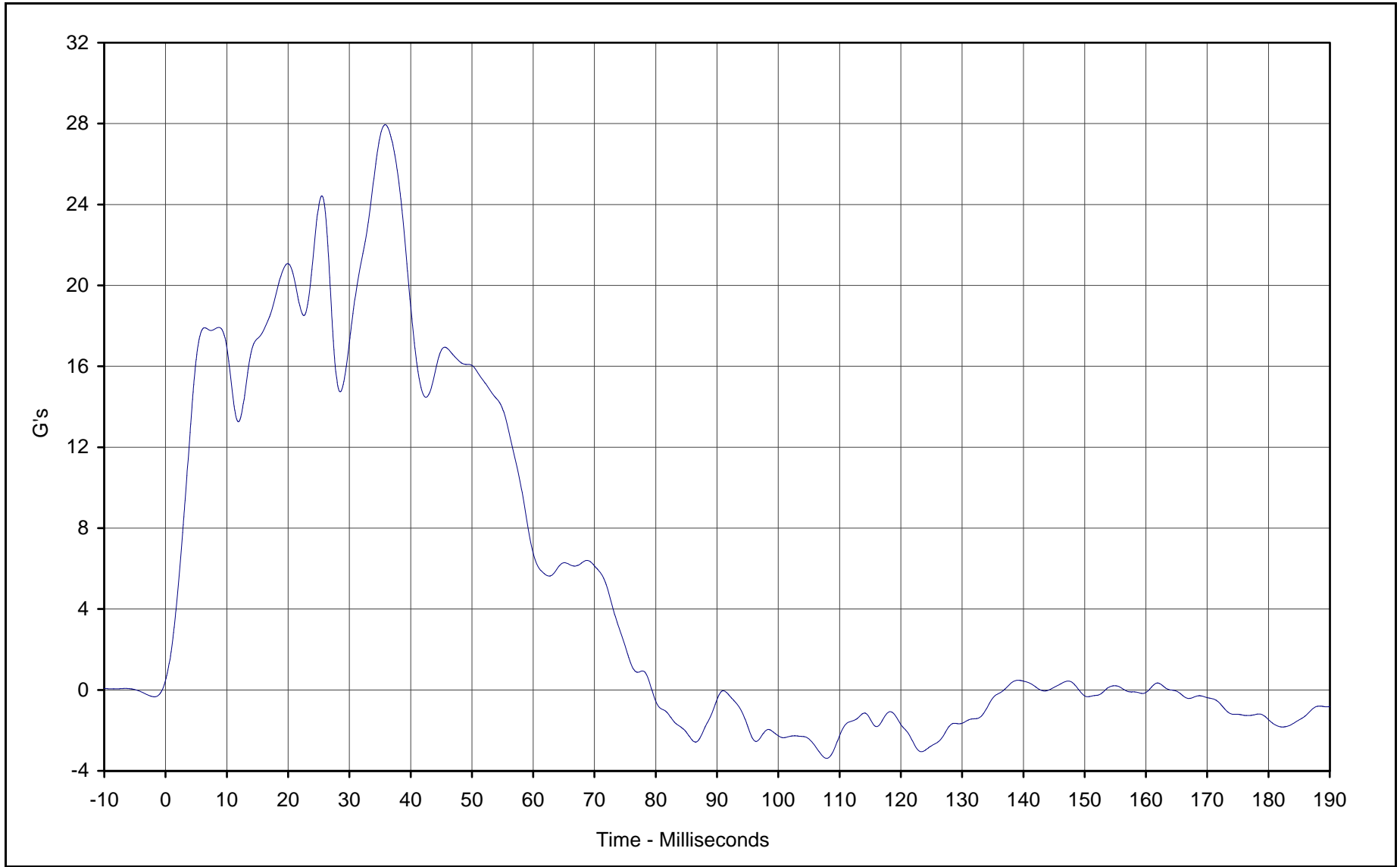
Curve Description: Rear Floor Above Axle X Velocity
Maximum Value: 3.0 at 188.6 Milliseconds
Minimum Value: -2.1 at 25.3 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-033

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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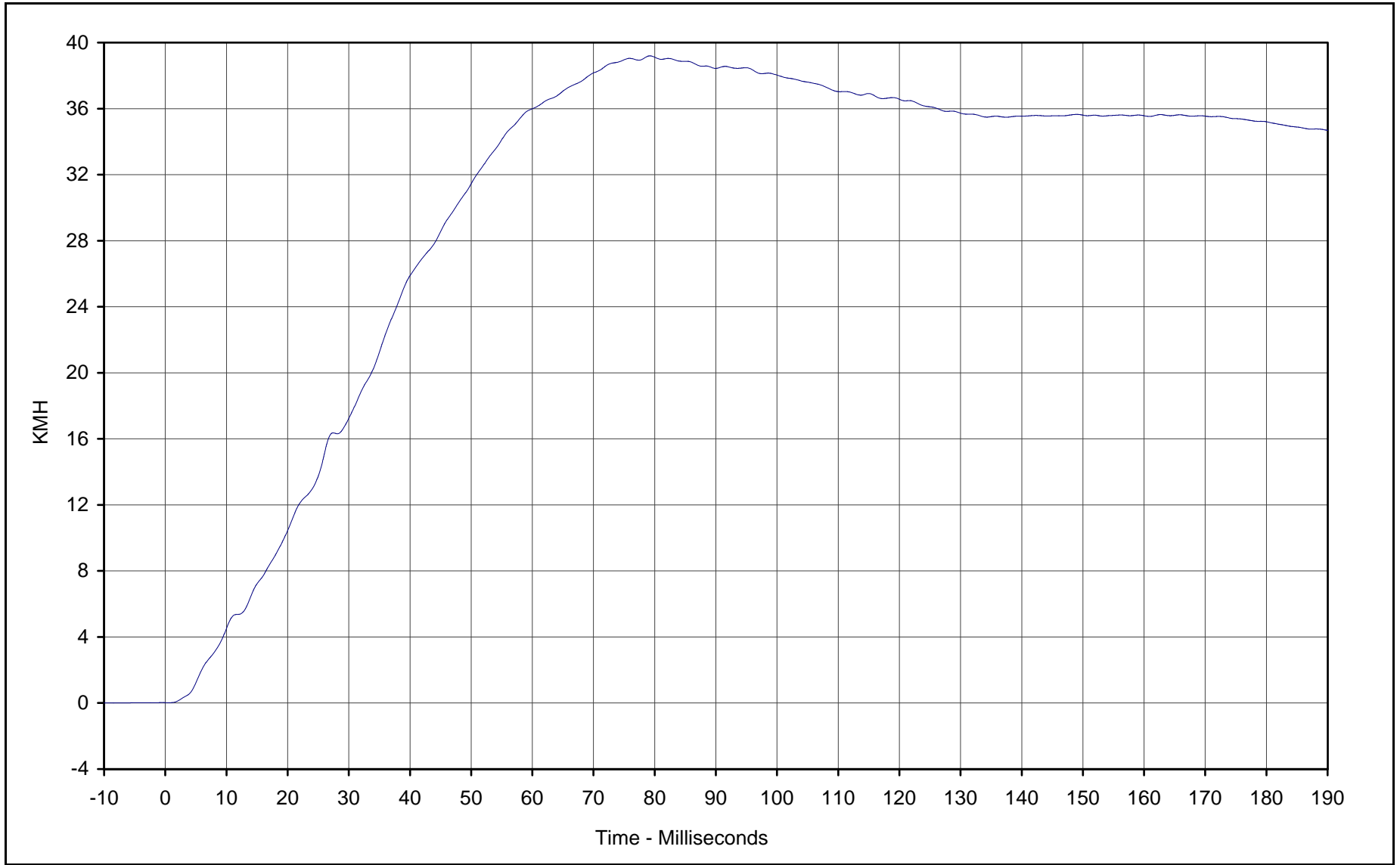
Curve Description: Rear Floor Above Axle Y
Maximum Value: 27.9 at 35.9 Milliseconds
Minimum Value: -3.4 at 107.9 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-034

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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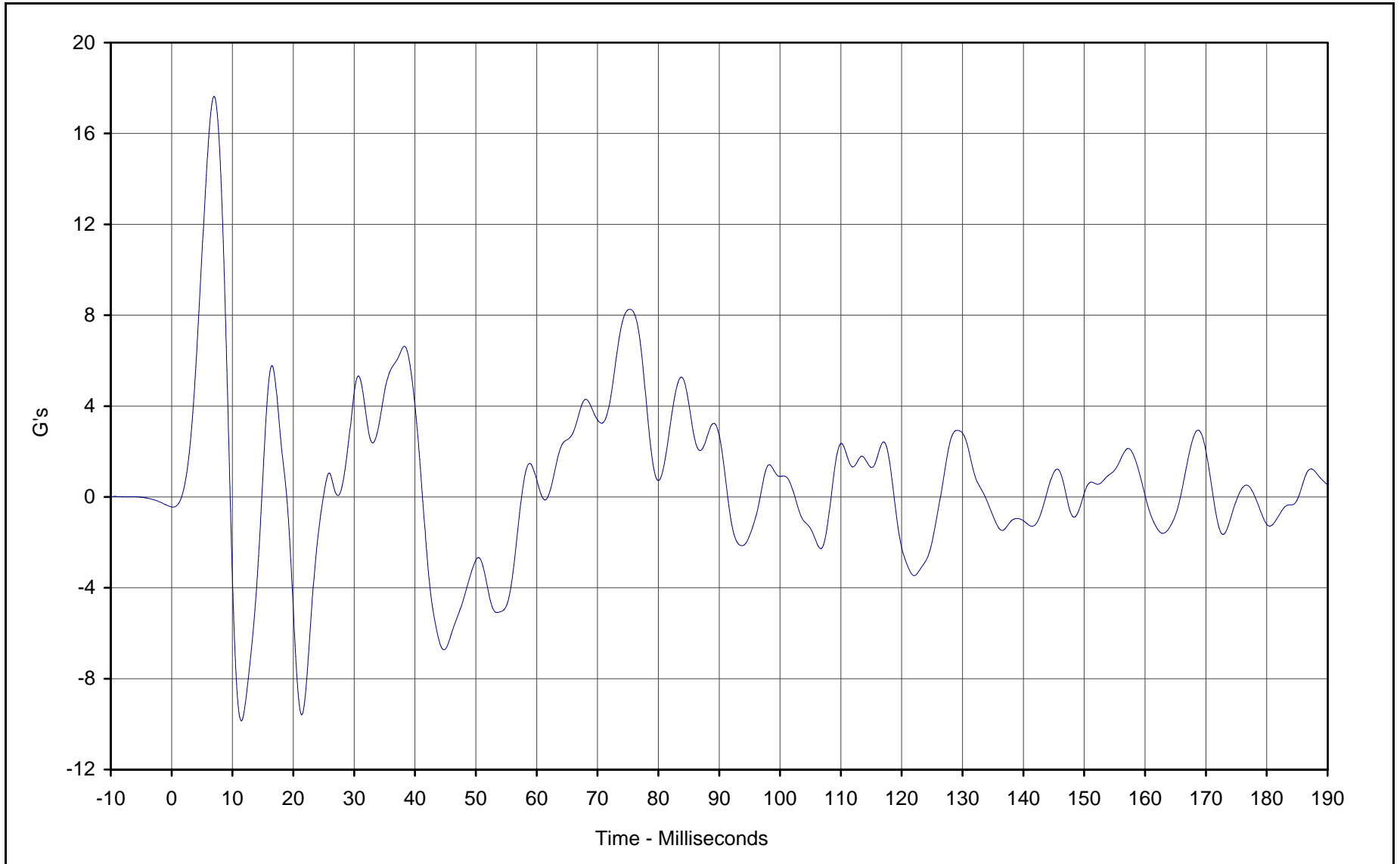
Curve Description: Rear Floor Above Axle Y Velocity
Maximum Value: 39.2 at 79.2 Milliseconds
Minimum Value: 0.0 at 0.7 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-034

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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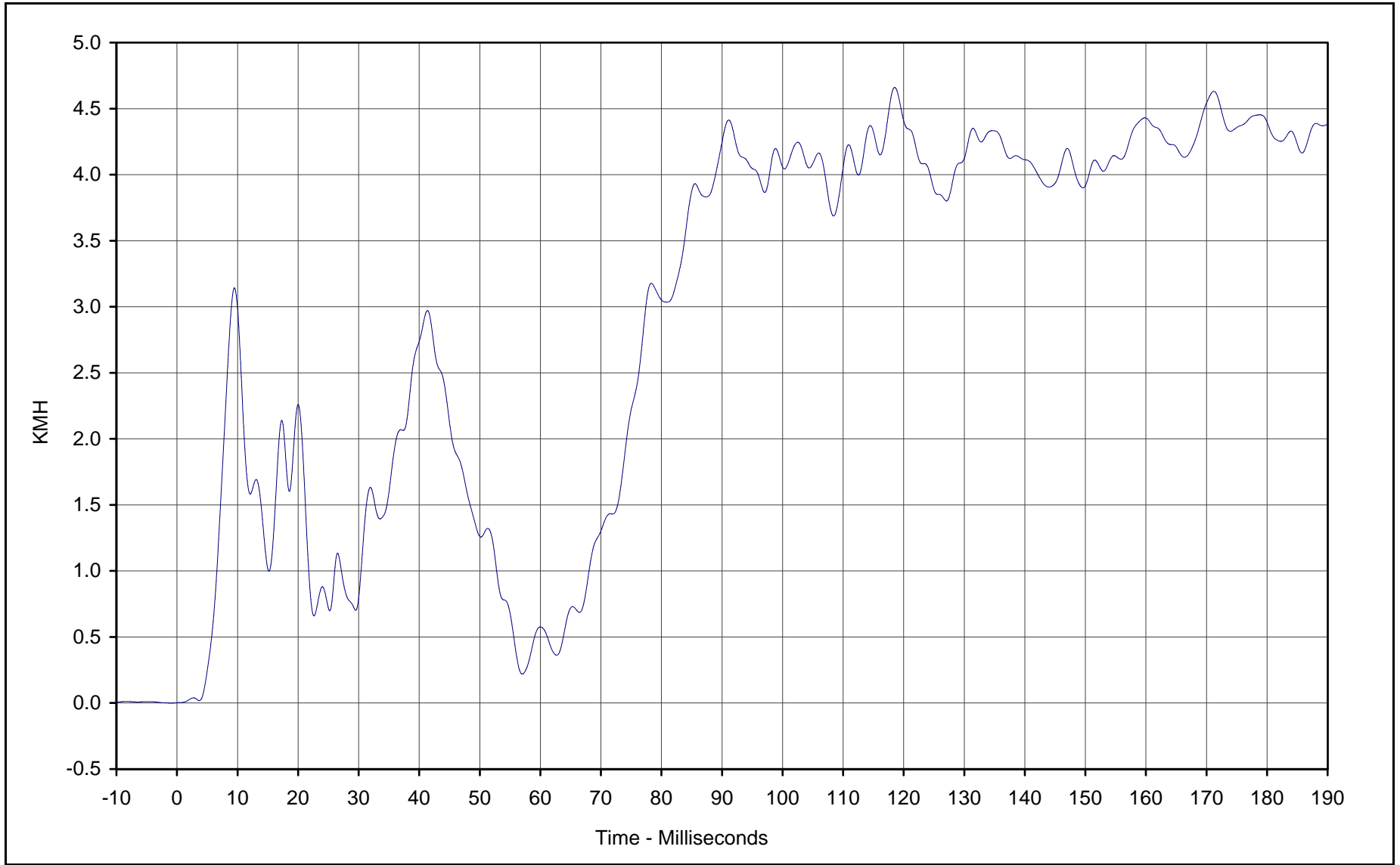
Curve Description: Rear Floor Above Axle Z
Maximum Value: 17.6 at 7 Milliseconds
Minimum Value: -9.9 at 11.5 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-035

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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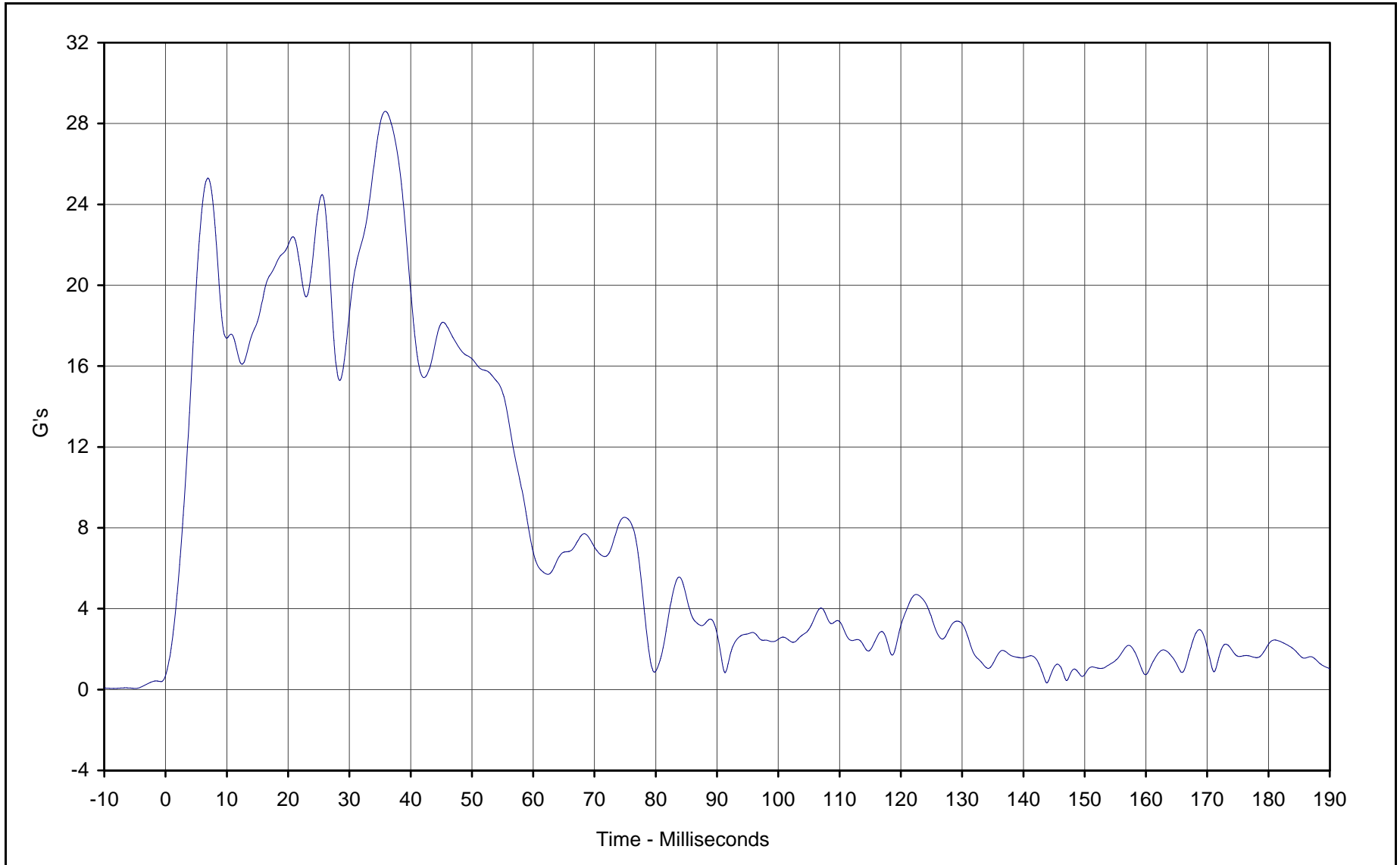
Curve Description: Rear Floor Above Axle Z Velocity
Maximum Value: 4.7 at 118.5 Milliseconds
Minimum Value: 0.0 at 0.0 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-035

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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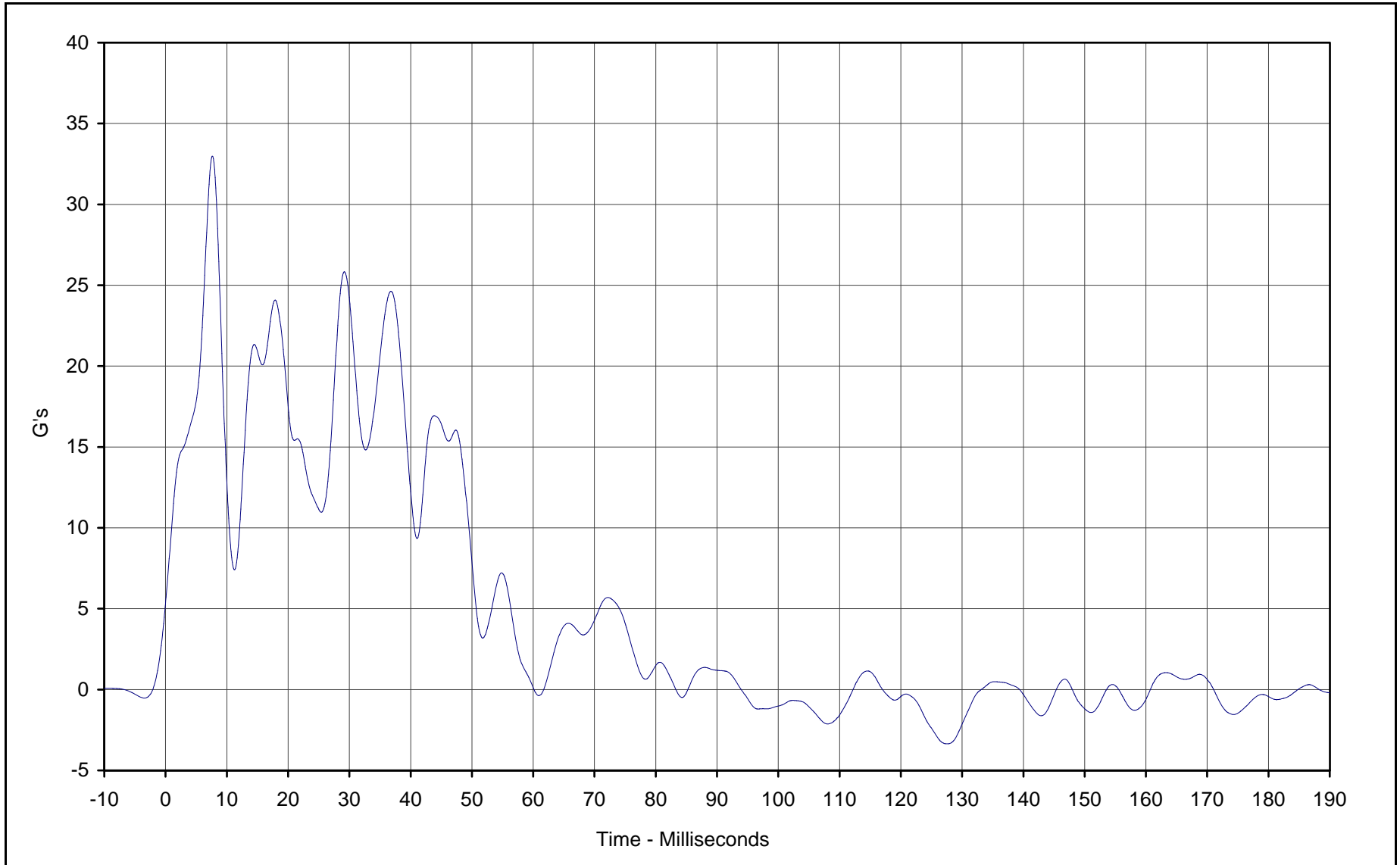
Curve Description: Rear Floor Above Axle Resultant
Maximum Value: 28.6 at 35.9 Milliseconds
Minimum Value: 0.3 at 143.8 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: RES-033

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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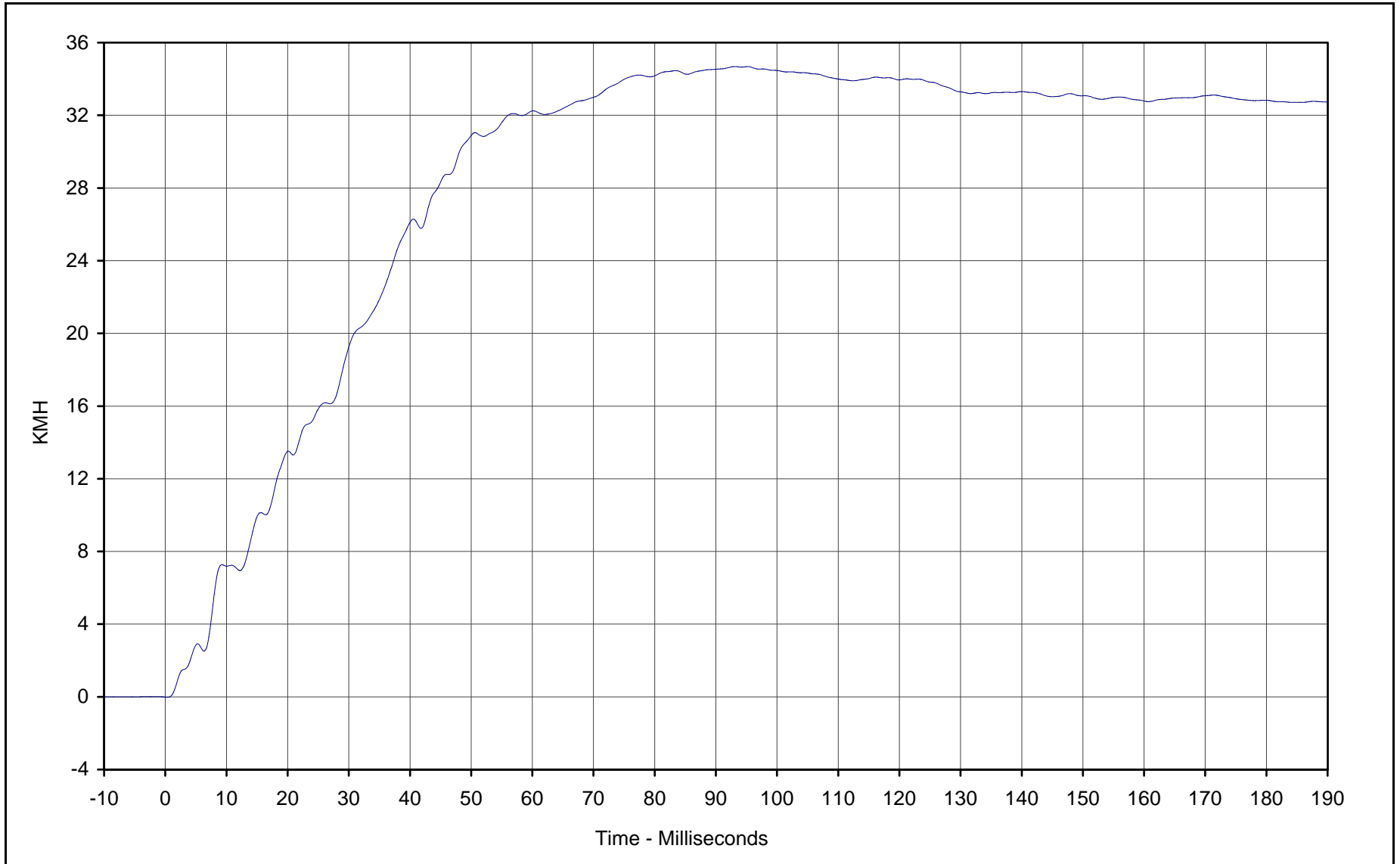
Curve Description: Left Sill at Rear Door Y
Maximum Value: 33.0 at 7.6 Milliseconds
Minimum Value: -3.4 at 127.5 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-036

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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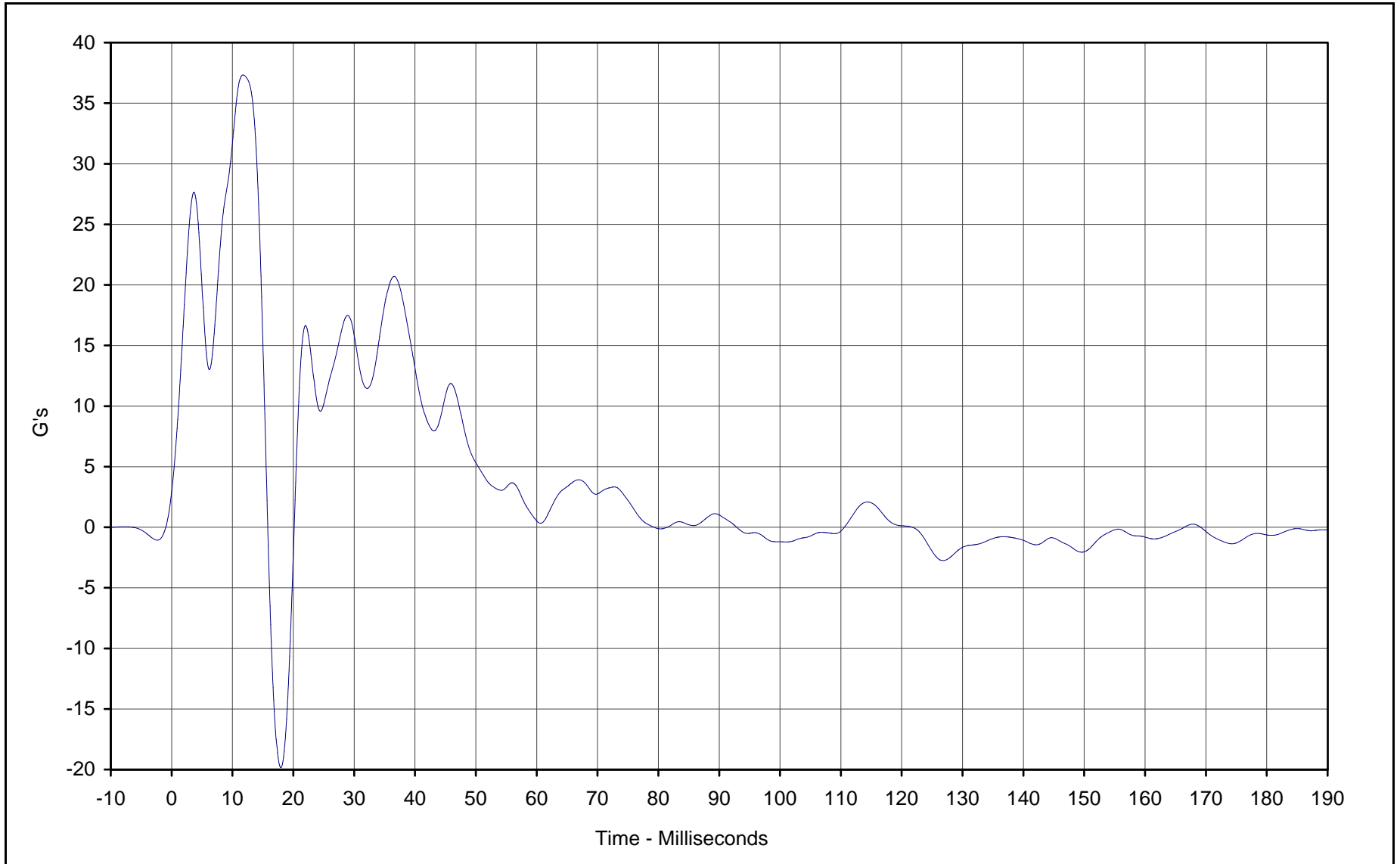
Curve Description: Left Sill at Rear Door Y Velocity
Maximum Value: 34.7 at 95.3 Milliseconds
Minimum Value: 0.0 at 0.3 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-036

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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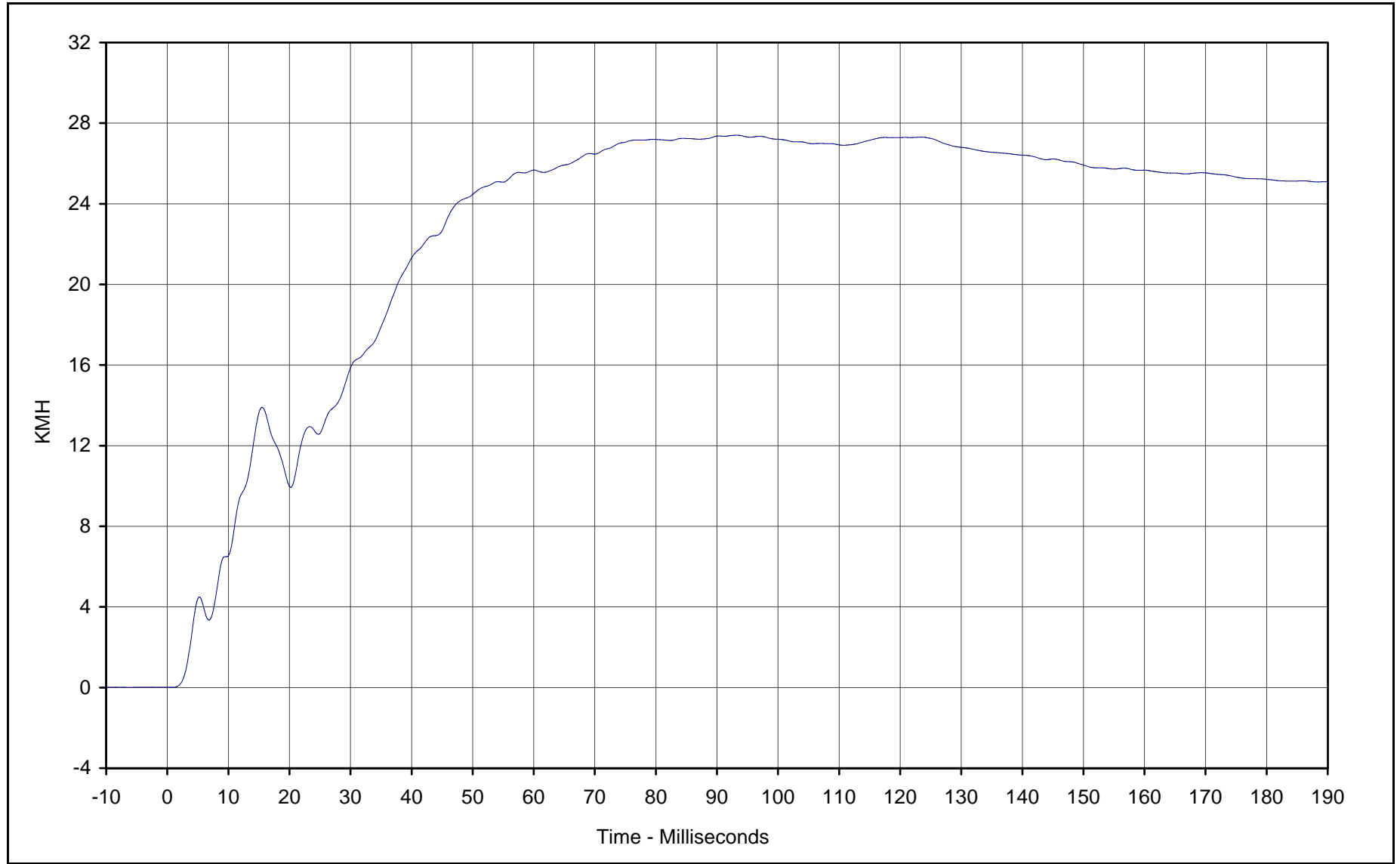


Curve Description: Left Sill at Front Door Y
Maximum Value: 37.3 at 11.7 Milliseconds
Minimum Value: -19.8 at 17.9 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-037

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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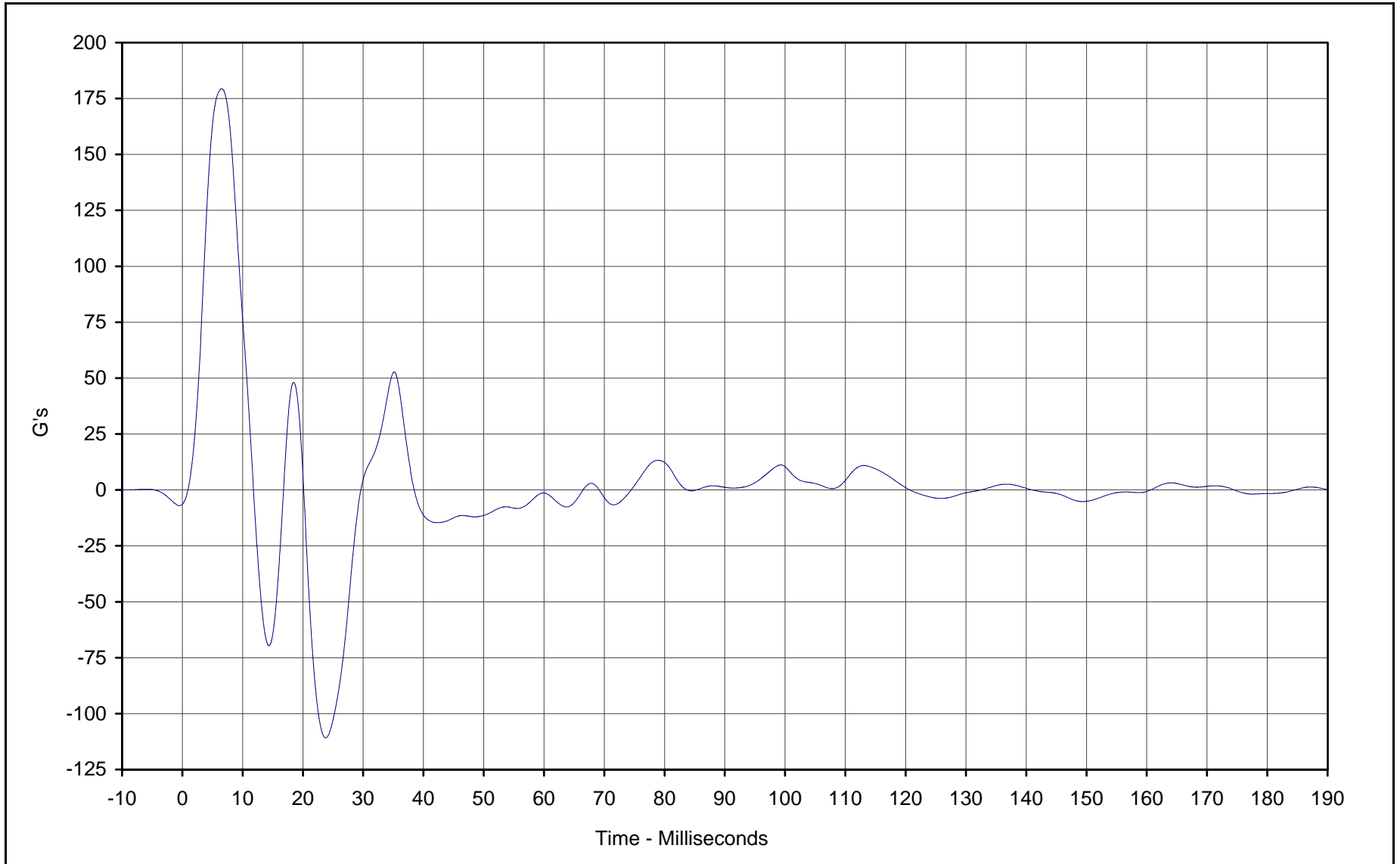


Curve Description: Left Sill at Front Door Y Velocity
Maximum Value: 27.4 at 93.2 Milliseconds
Minimum Value: 0.0 at 0.7 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-037

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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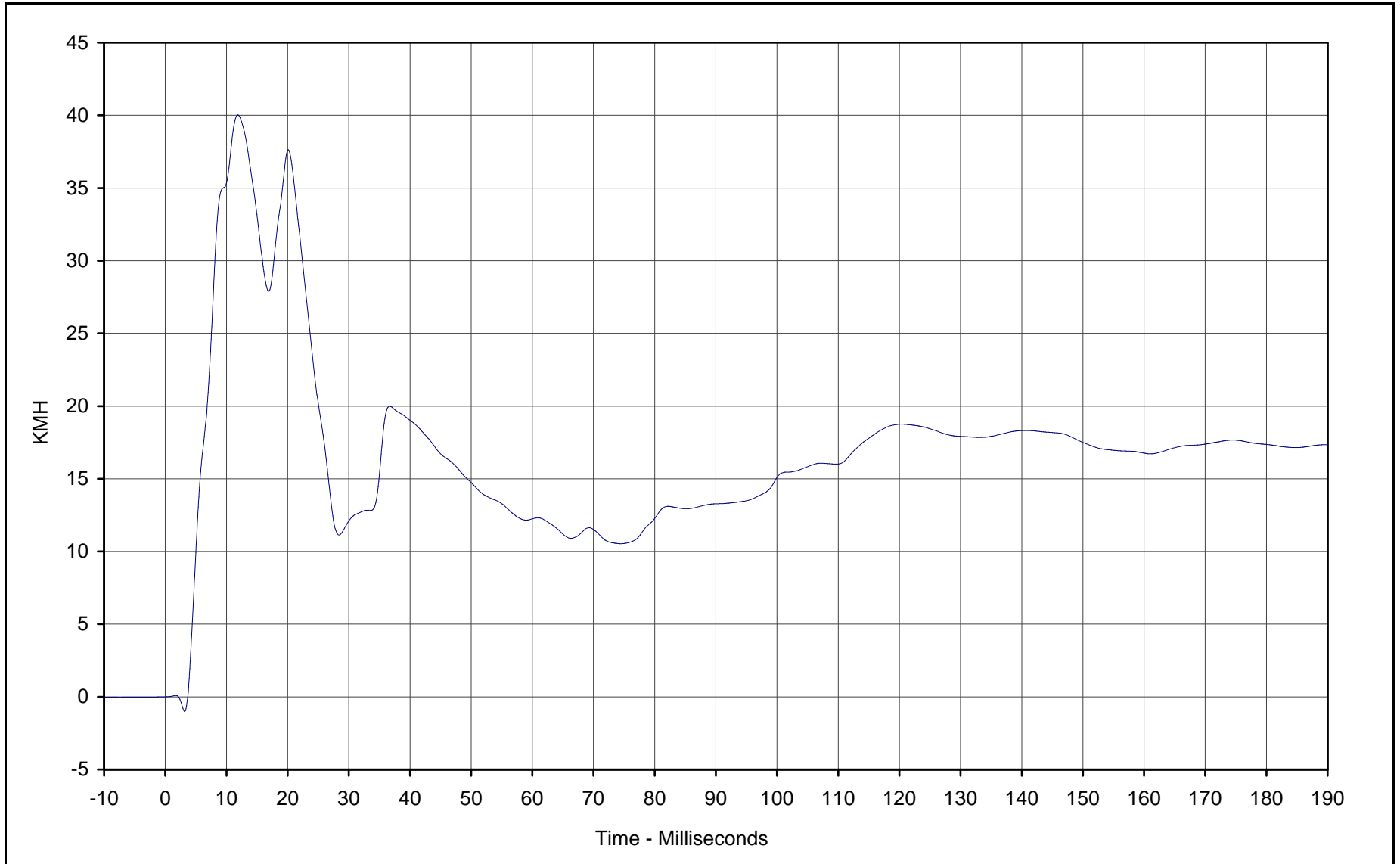
Curve Description: Left Front Door CL Y
Maximum Value: 179.4 at 6.6 Milliseconds
Minimum Value: -110.9 at 23.8 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-038

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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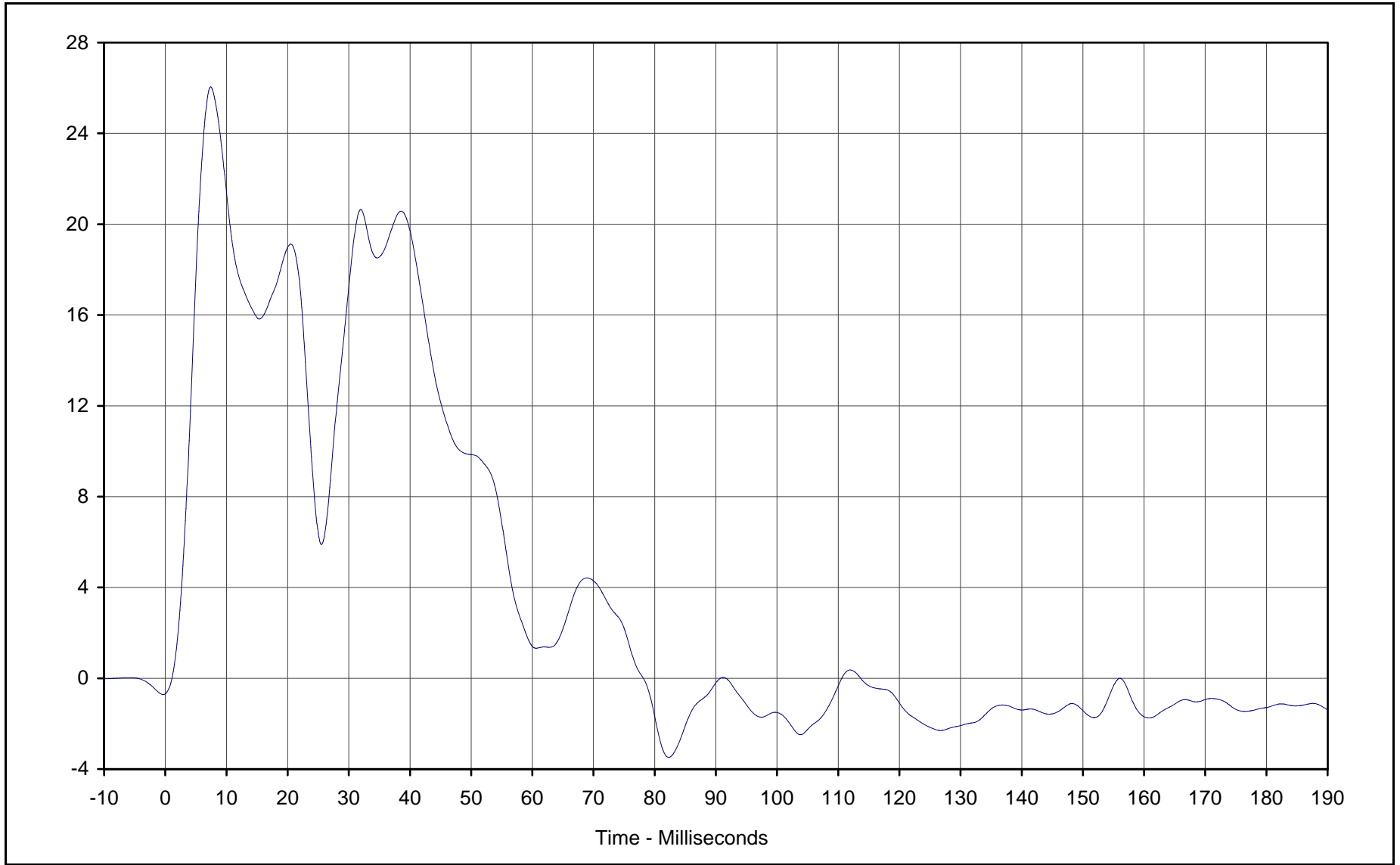
Curve Description: Left Front Door CL Y Velocity
Maximum Value: 40.0 at 11.9 Milliseconds
Minimum Value: -1.0 at 3.2 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-038

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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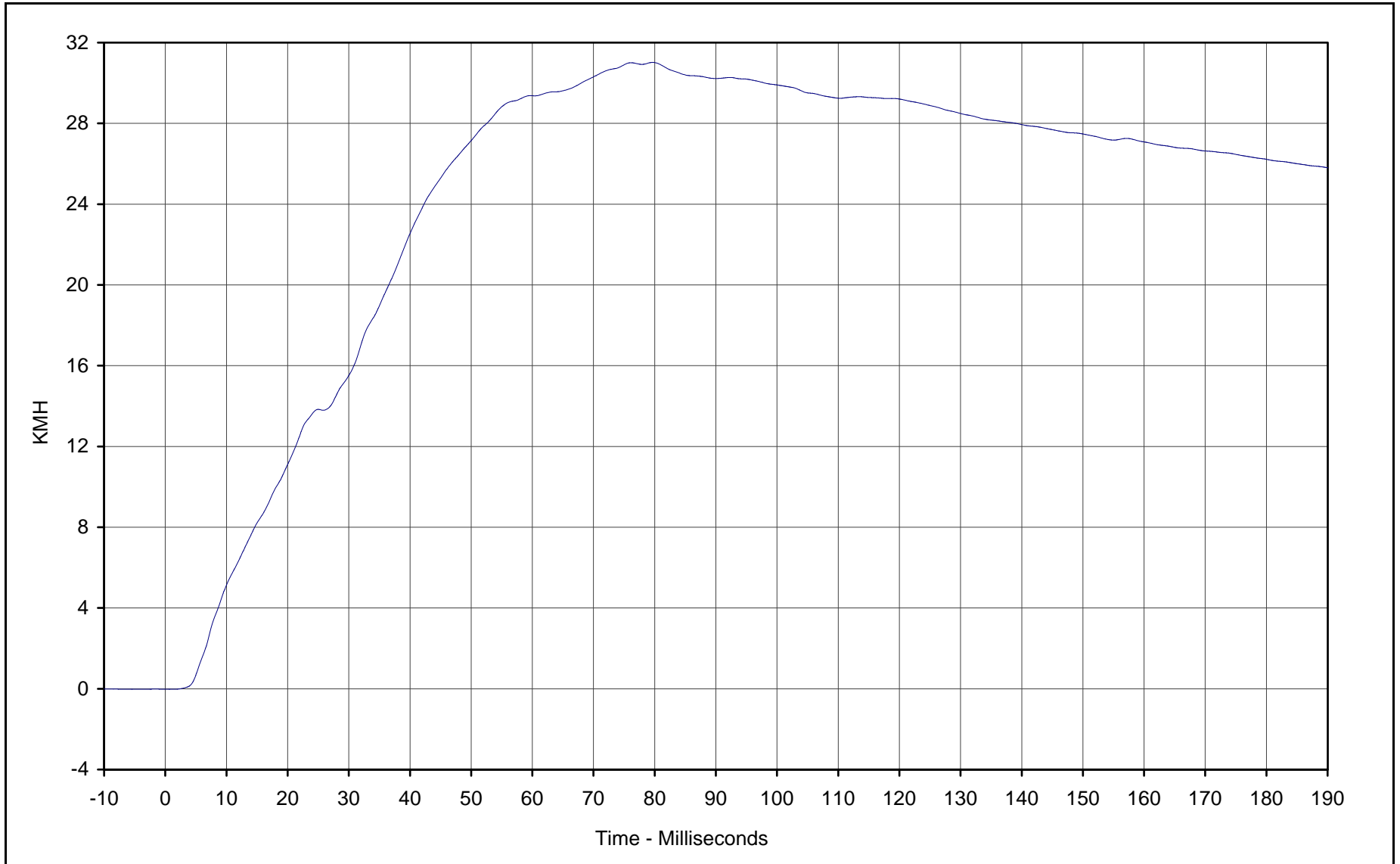
Curve Description: Right Rear Occ. Compartment Y
Maximum Value: 26.1 at 7.4 Milliseconds
Minimum Value: -3.5 at 82.3 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-039

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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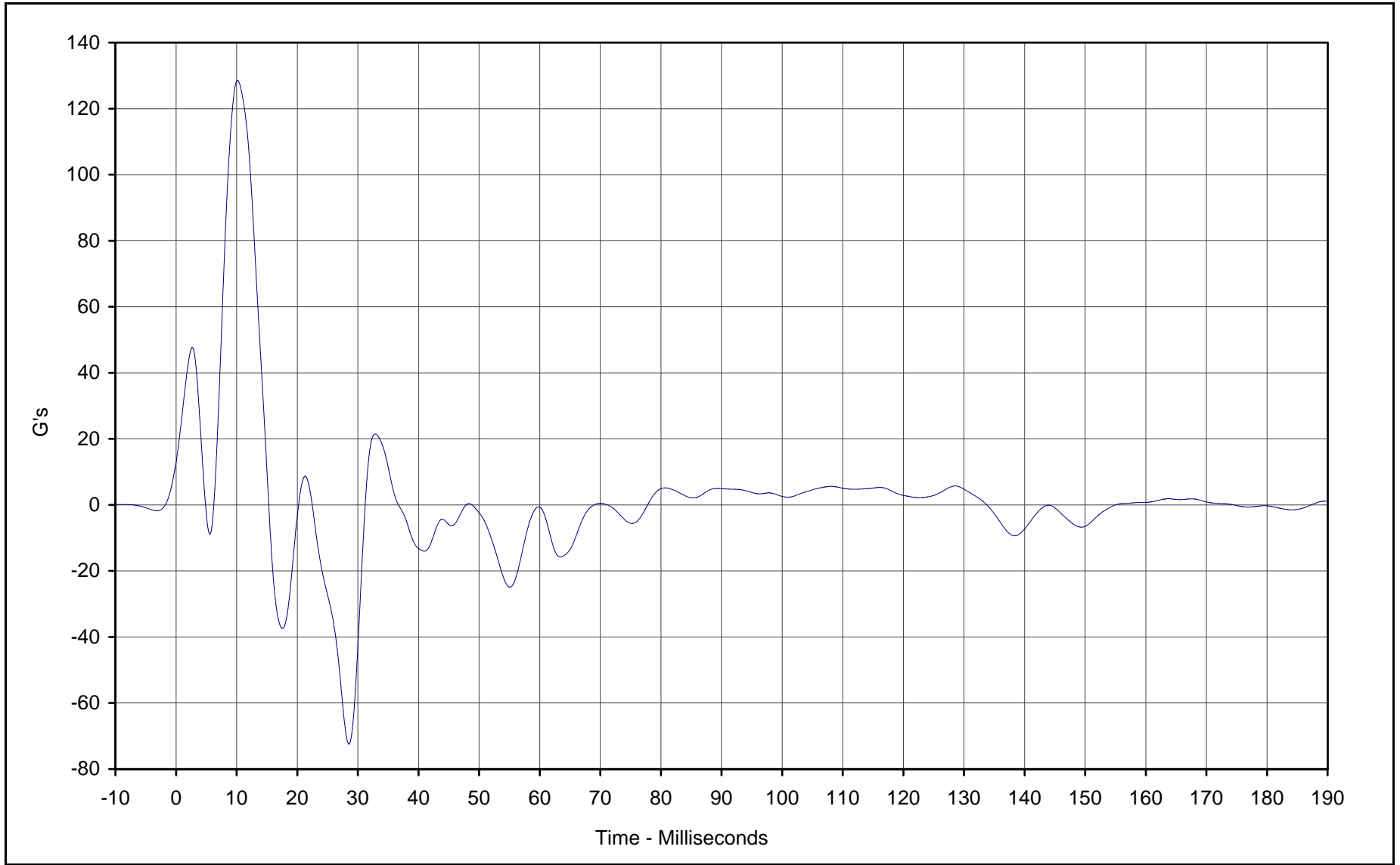
Curve Description: Right Rear Occ. Comp. Y Velocity
Maximum Value: 31.0 at 79.7 Milliseconds
Minimum Value: 0.0 at 1.4 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-039

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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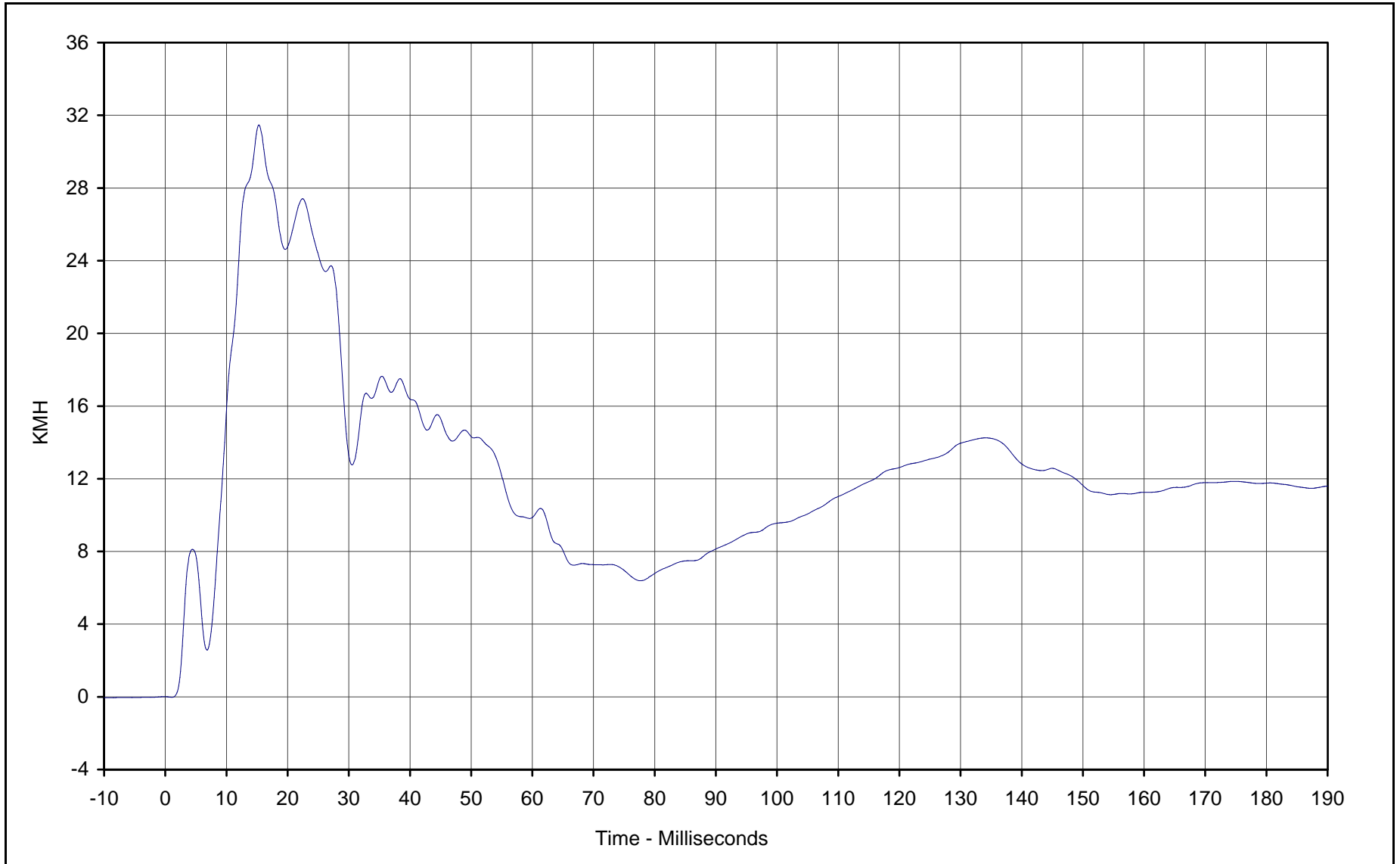
Curve Description: Left Front Door Mid Rear Y
Maximum Value: 128.5 at 10.2 Milliseconds
Minimum Value: -72.4 at 28.5 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-040

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

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Curve Description: Left Front Door Mid Rear Y Velocity

Maximum Value: 31.5 at 15.3 Milliseconds

Minimum Value: 0.0 at 1.0 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-040

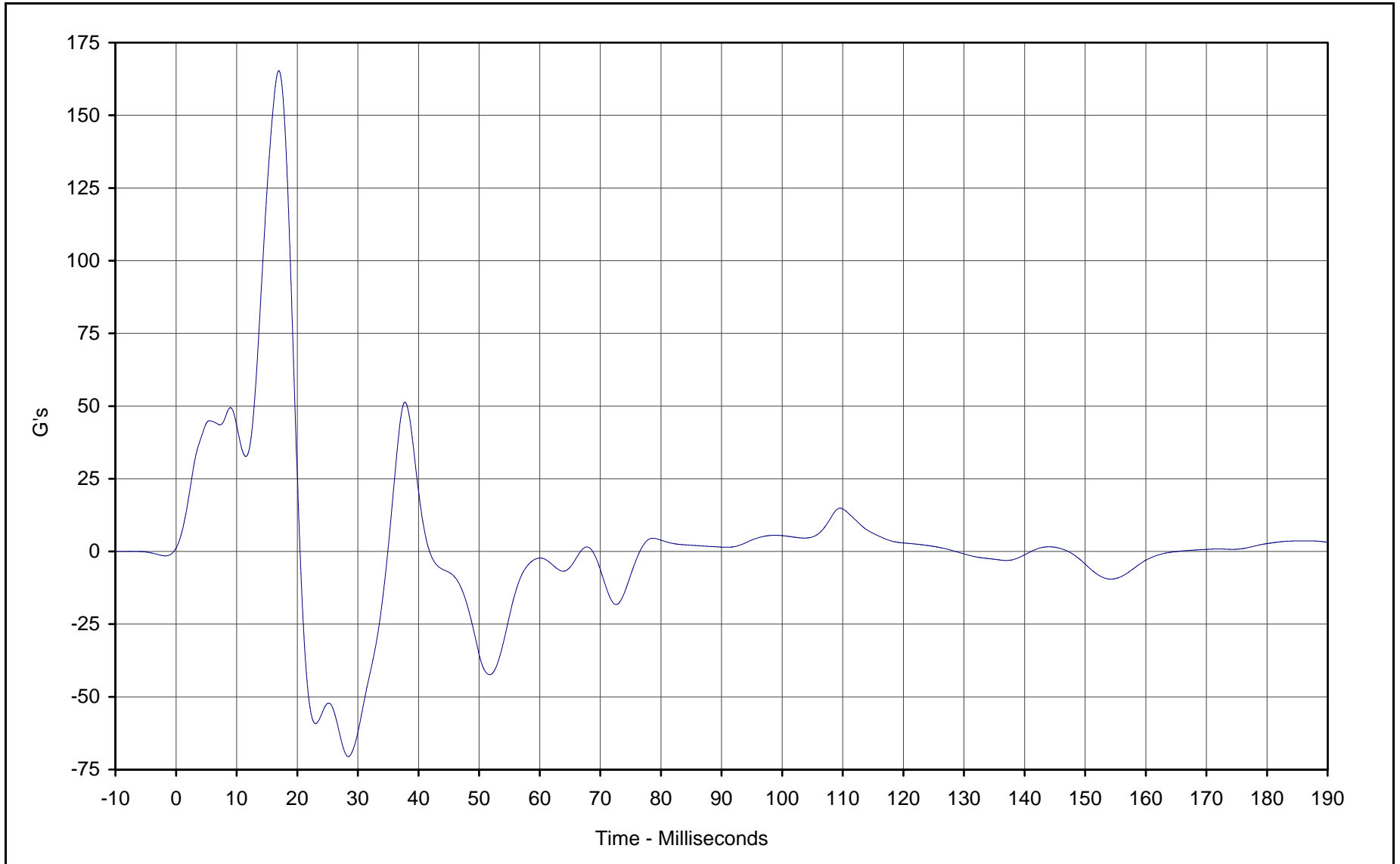
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

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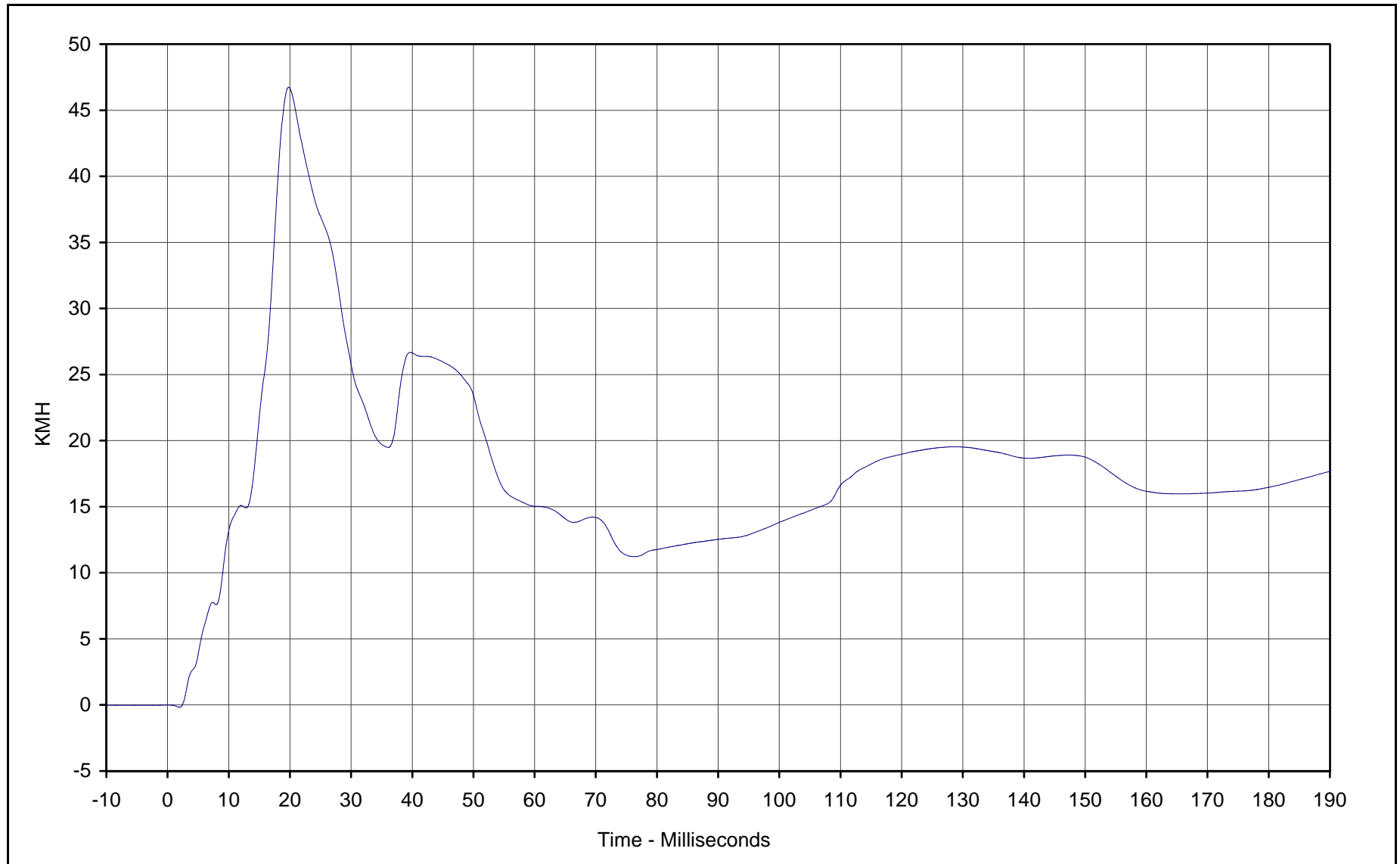


Curve Description: Left Front Door Upper CL Y
Maximum Value: 165.3 at 17.0 Milliseconds
Minimum Value: -70.6 at 28.4 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-041

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Left Front Door Upper CL Y Velocity

Maximum Value: 46.7 at 19.8 Milliseconds

Minimum Value: -0.2 at 1.9 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

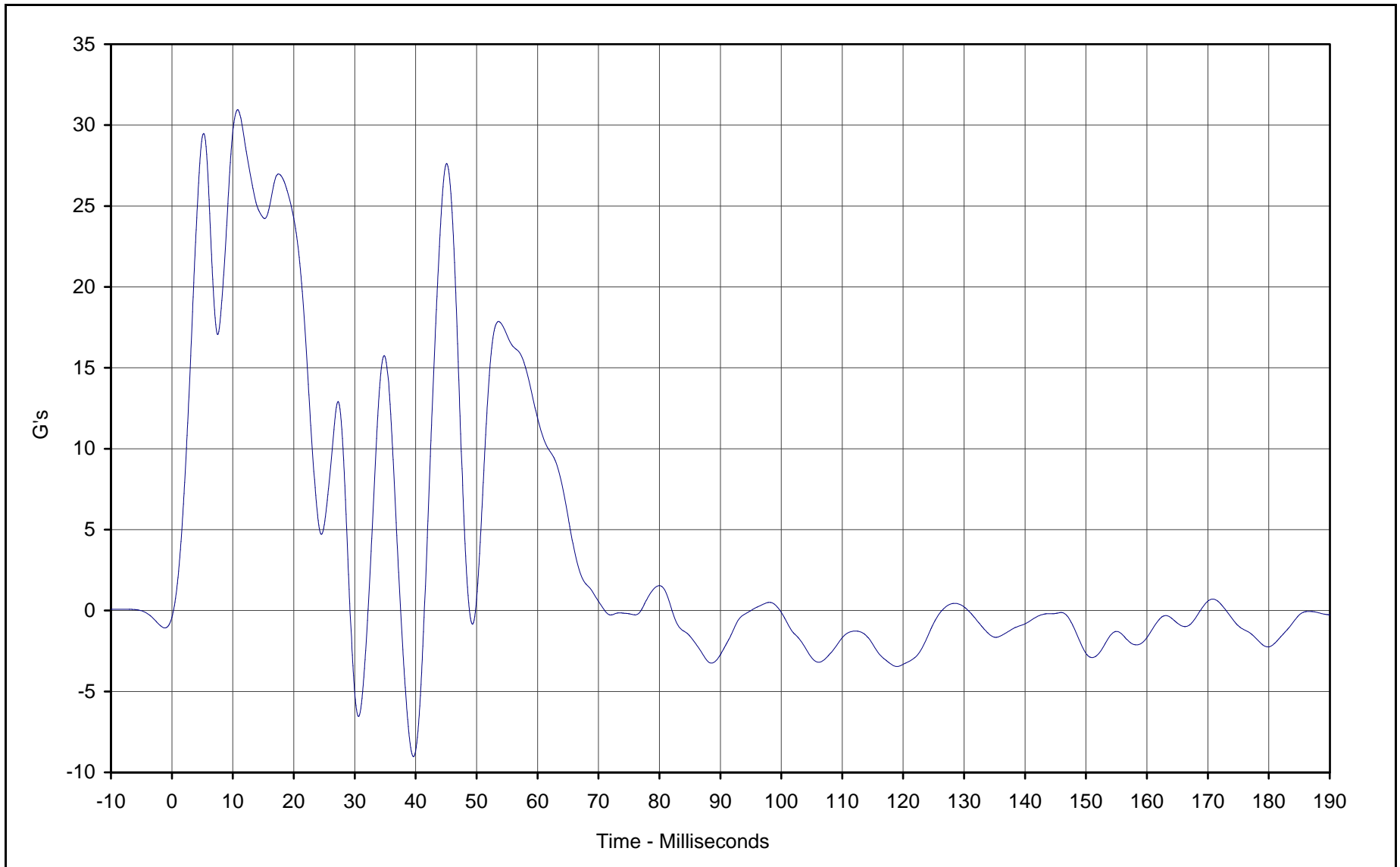
Curve Number: IN1-041

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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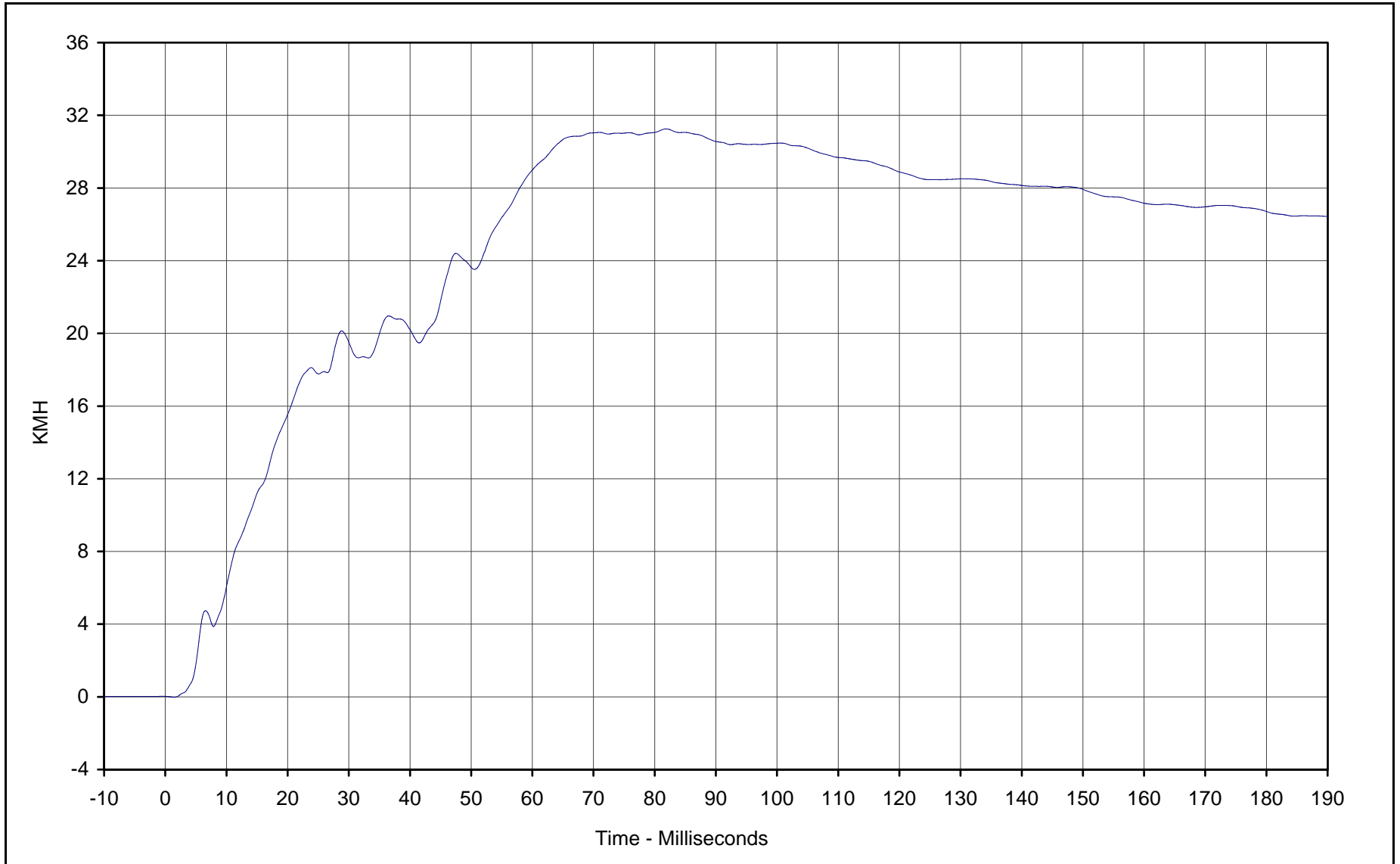
Curve Description: Left Rear Door Mid Rear Y
Maximum Value: 31.0 at 10.8 Milliseconds
Minimum Value: -9.0 at 39.6 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-042

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Left Rear Door Mid Rear Y Velocity

Maximum Value: 31.3 at 81.9 Milliseconds

Minimum Value: 0.0 at 1.4 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-042

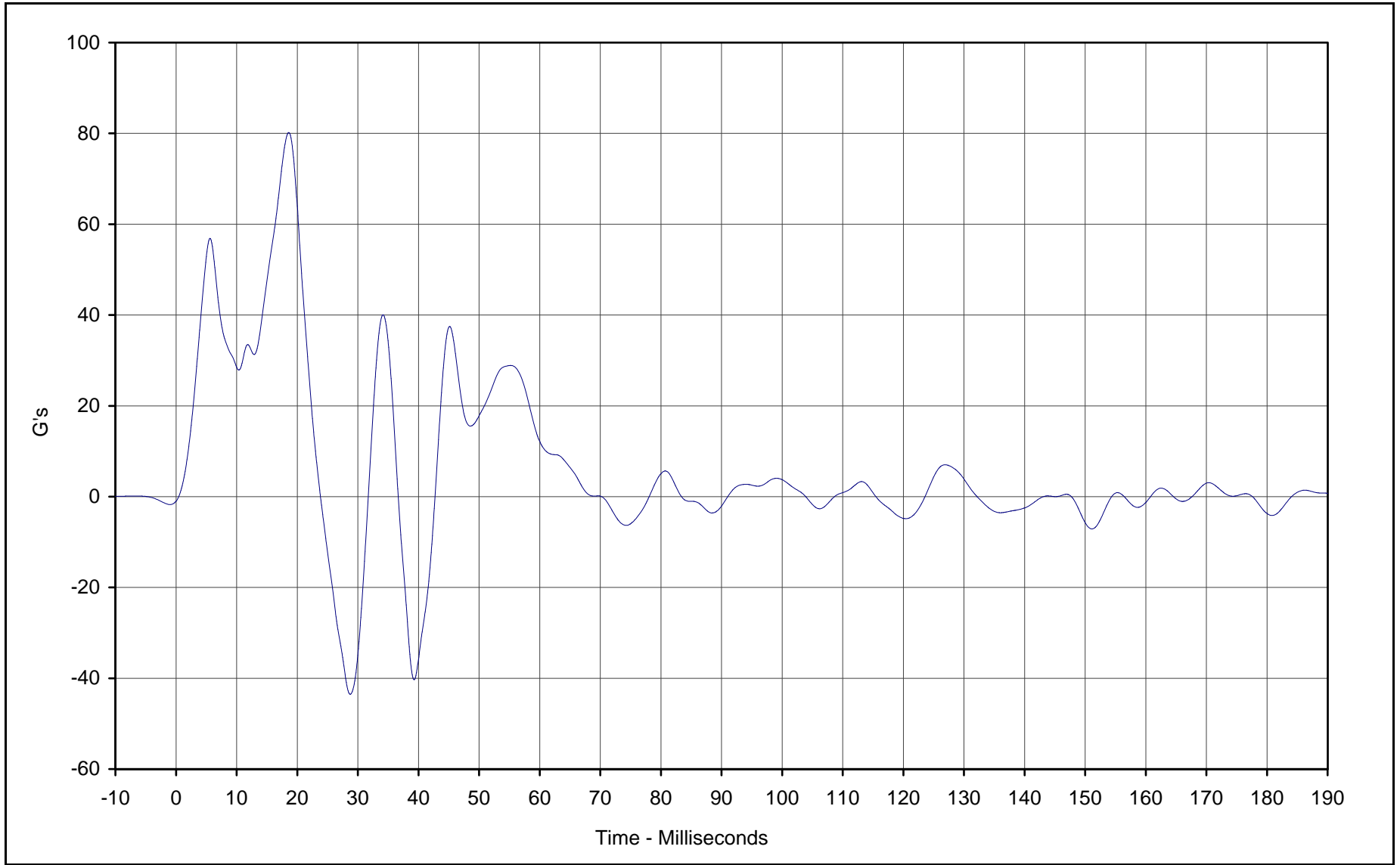
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

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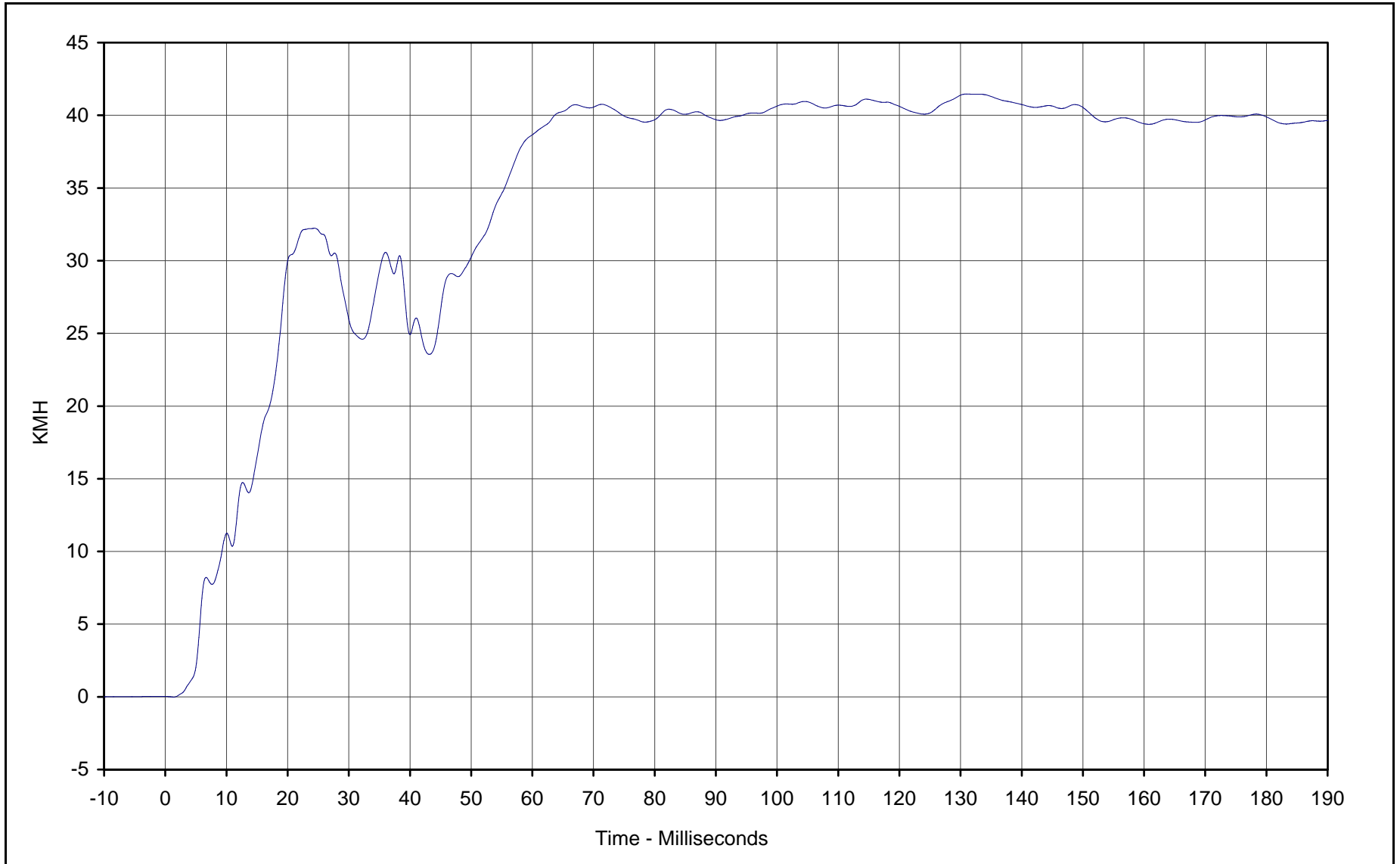
Curve Description: Left Rear Door Upper CL Y
Maximum Value: 80.2 at 18.6 Milliseconds
Minimum Value: -43.5 at 28.7 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-043

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Left Rear Door Upper CL Y Velocity

Maximum Value: 41.5 at 131.0 Milliseconds

Minimum Value: 0.0 at 1.4 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-043

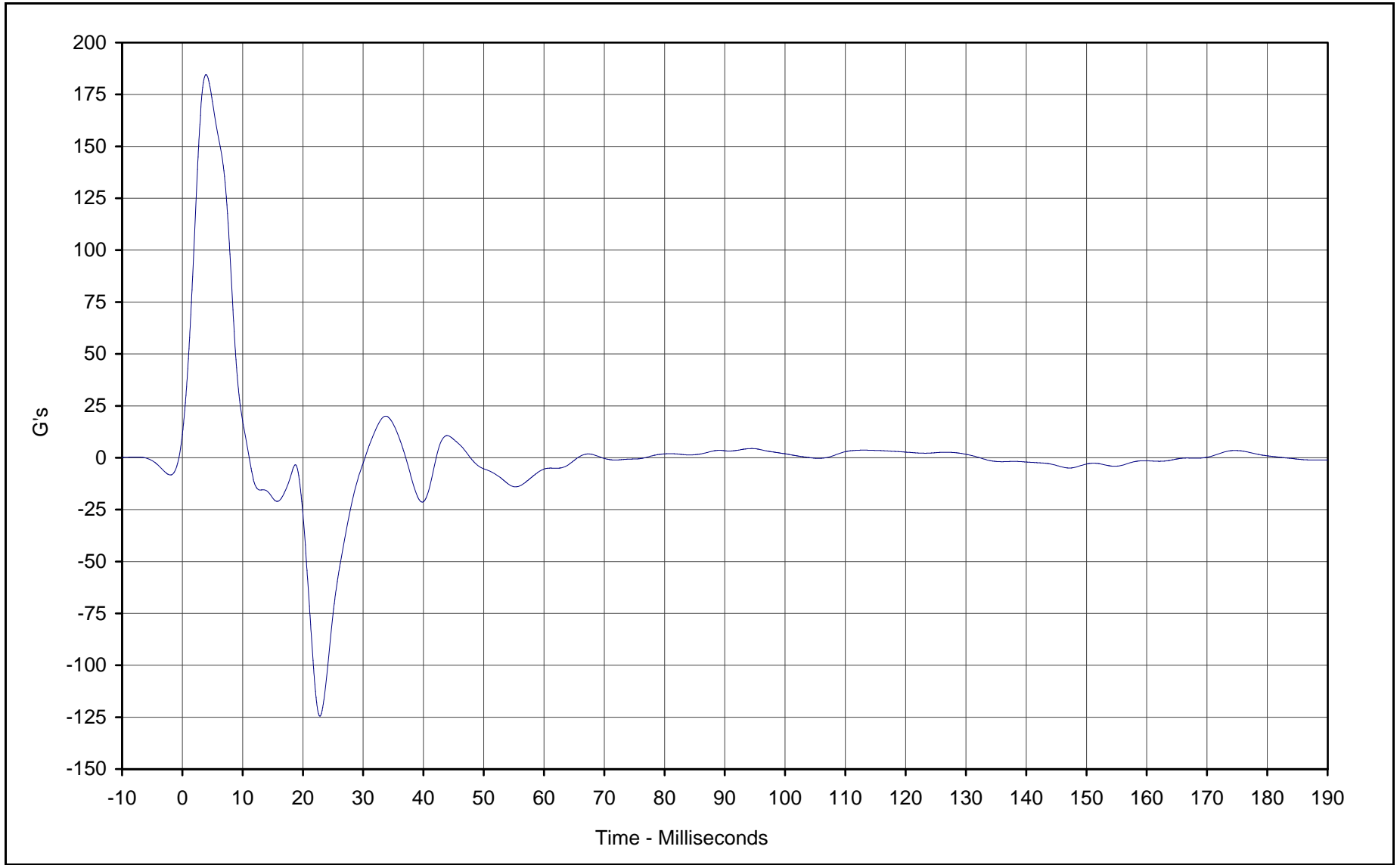
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

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B-88



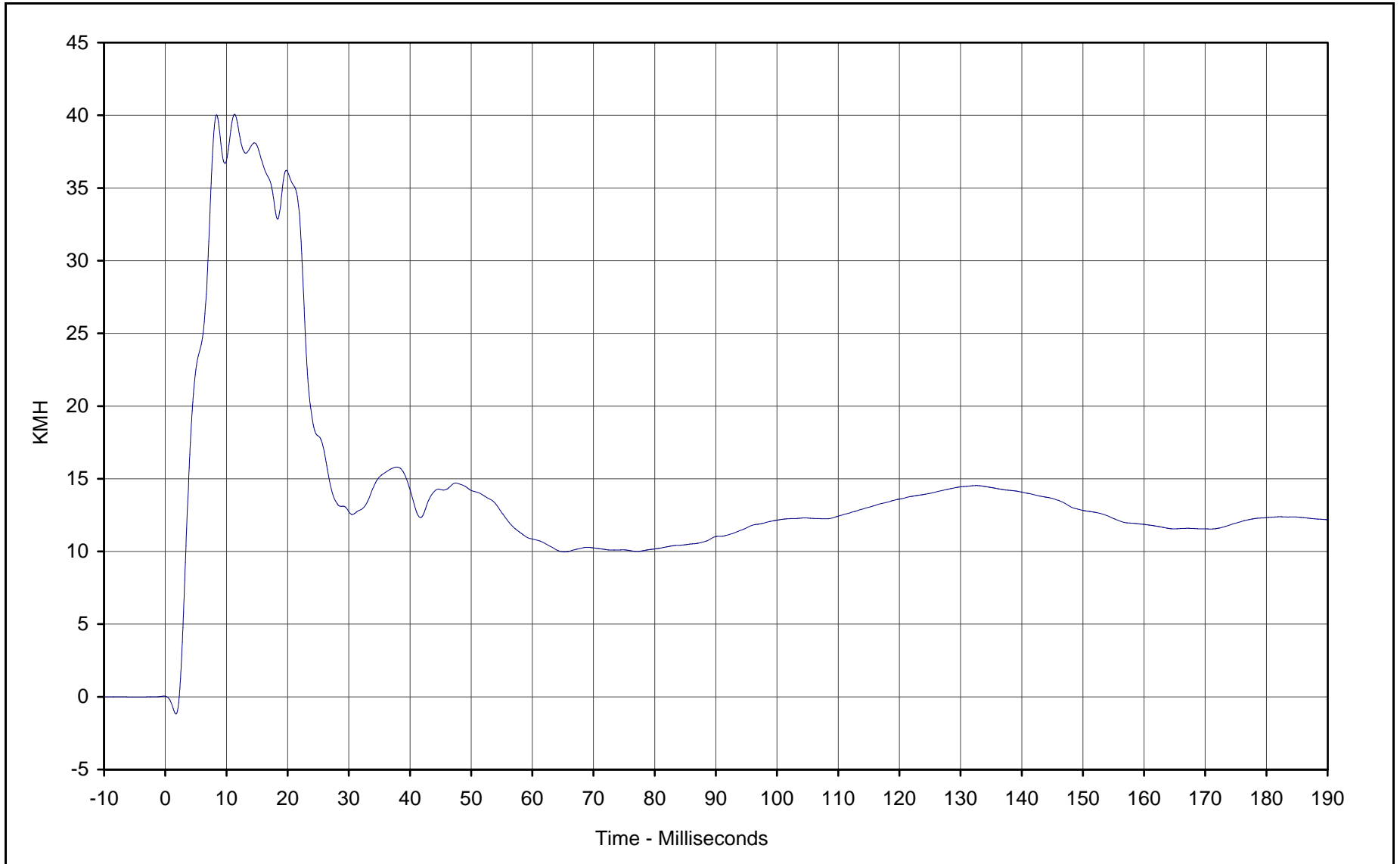
Curve Description: Left B-Post Lower Y
Maximum Value: 184.5 at 4.0 Milliseconds
Minimum Value: -124.5 at 22.8 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-044

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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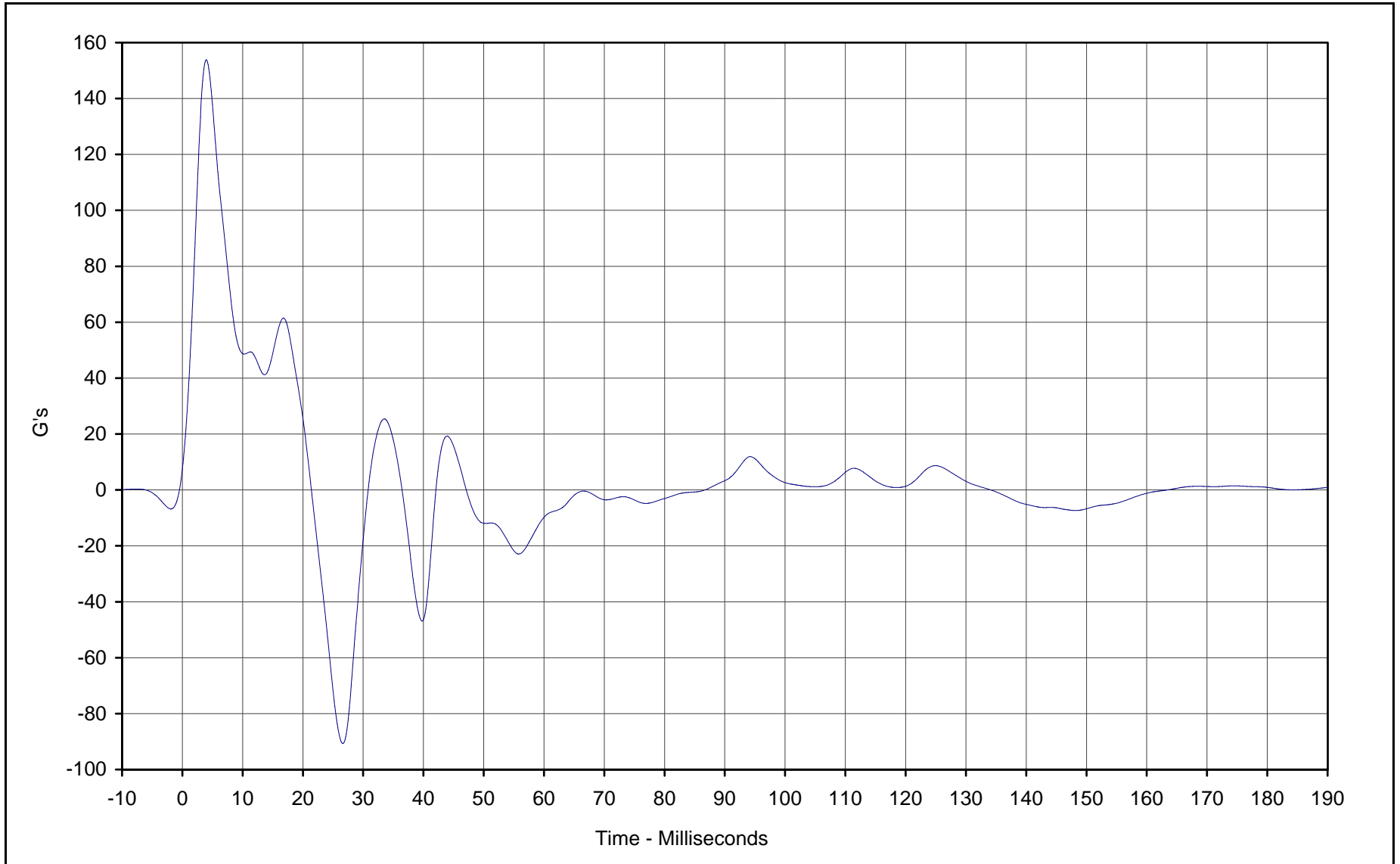
Curve Description: Left B-Post Lower Y Velocity
Maximum Value: 40.1 at 11.3 Milliseconds
Minimum Value: -1.2 at 1.7 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-044

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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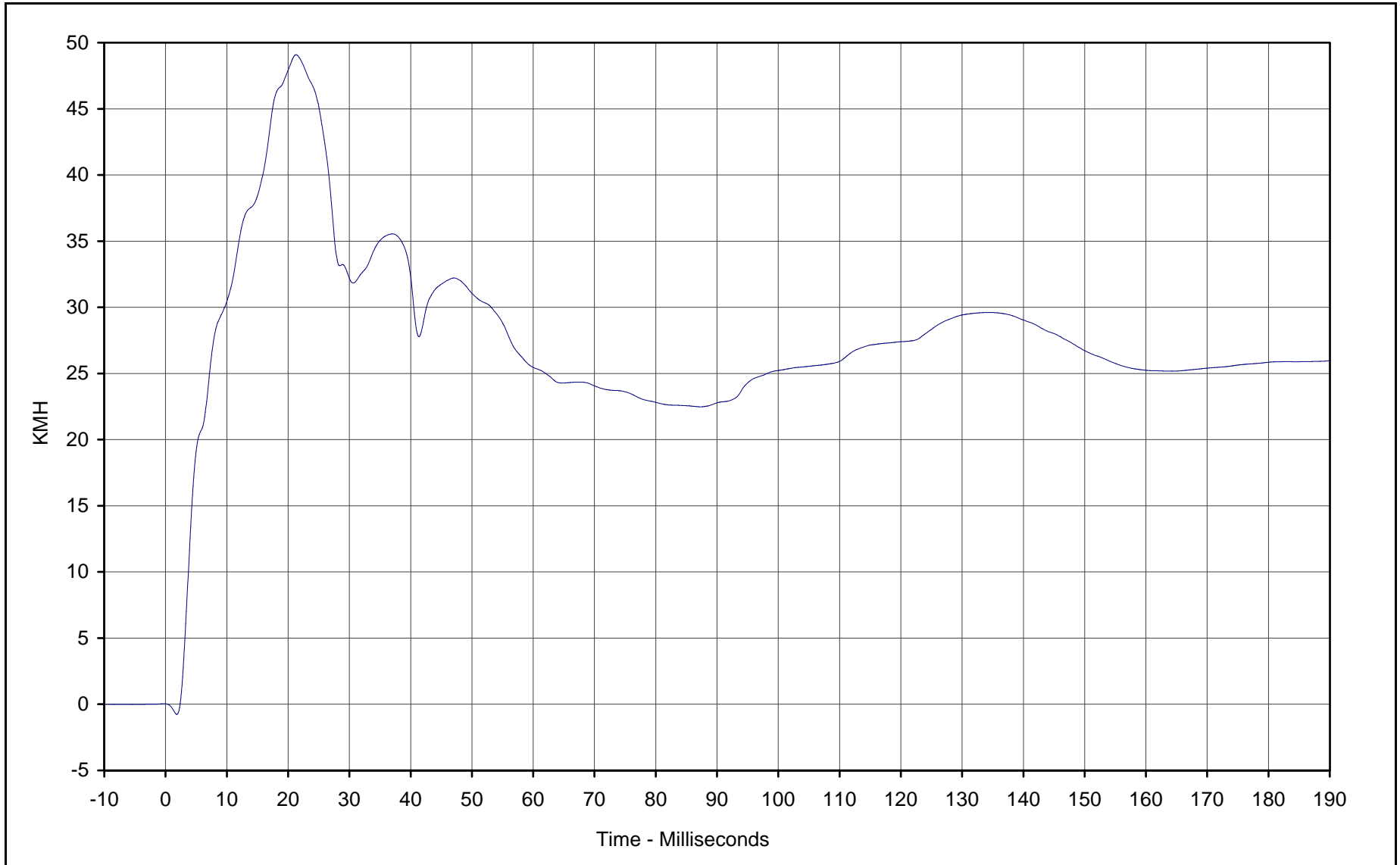
Curve Description: Left B-Post Middle Y
Maximum Value: 153.8 at 4.0 Milliseconds
Minimum Value: -90.7 at 26.6 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-045

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-91



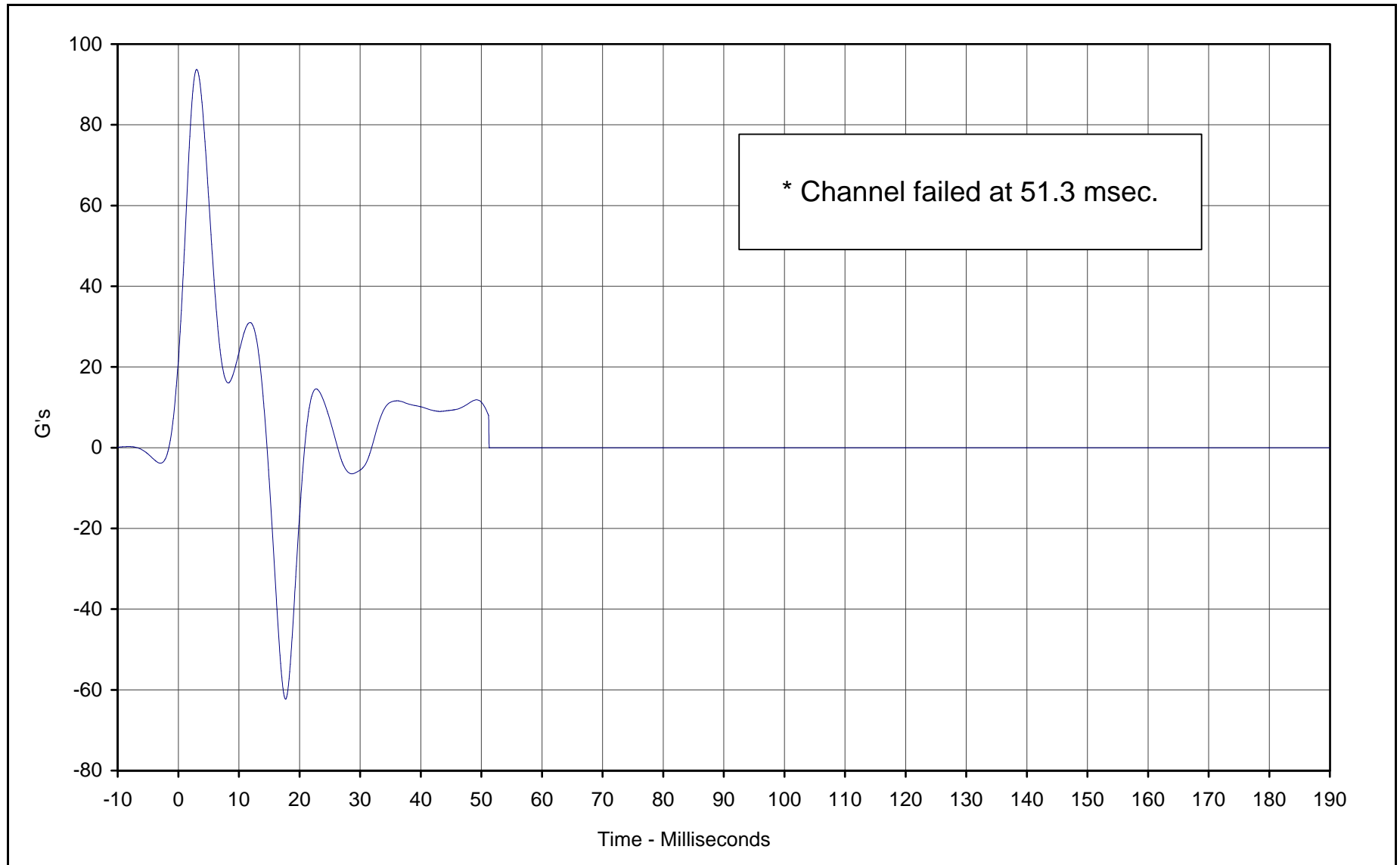
Curve Description: Left B-Post Middle Y Velocity
Maximum Value: 49.1 at 21.3 Milliseconds
Minimum Value: -0.8 at 1.8 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-045

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-92



Curve Description: Left A-Post Lower Y *

Maximum Value: 93.7 at 3.0 Milliseconds

Minimum Value: -62.3 at 17.7 Milliseconds

SAE Filter Class: 60

Date of Test: 12/22/00

Curve Number: FIL-046

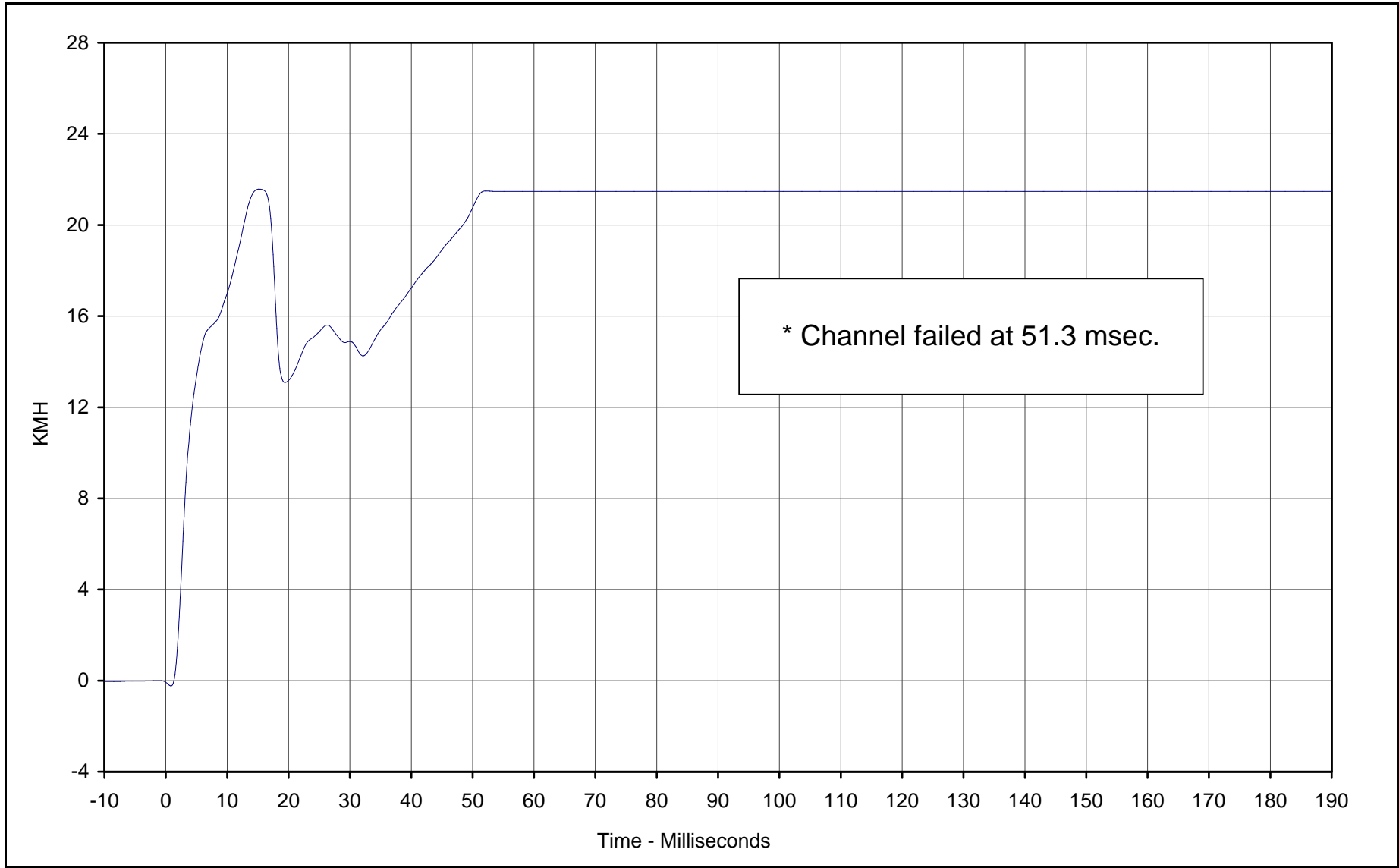
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

* Channel failed at 51.3 msec.



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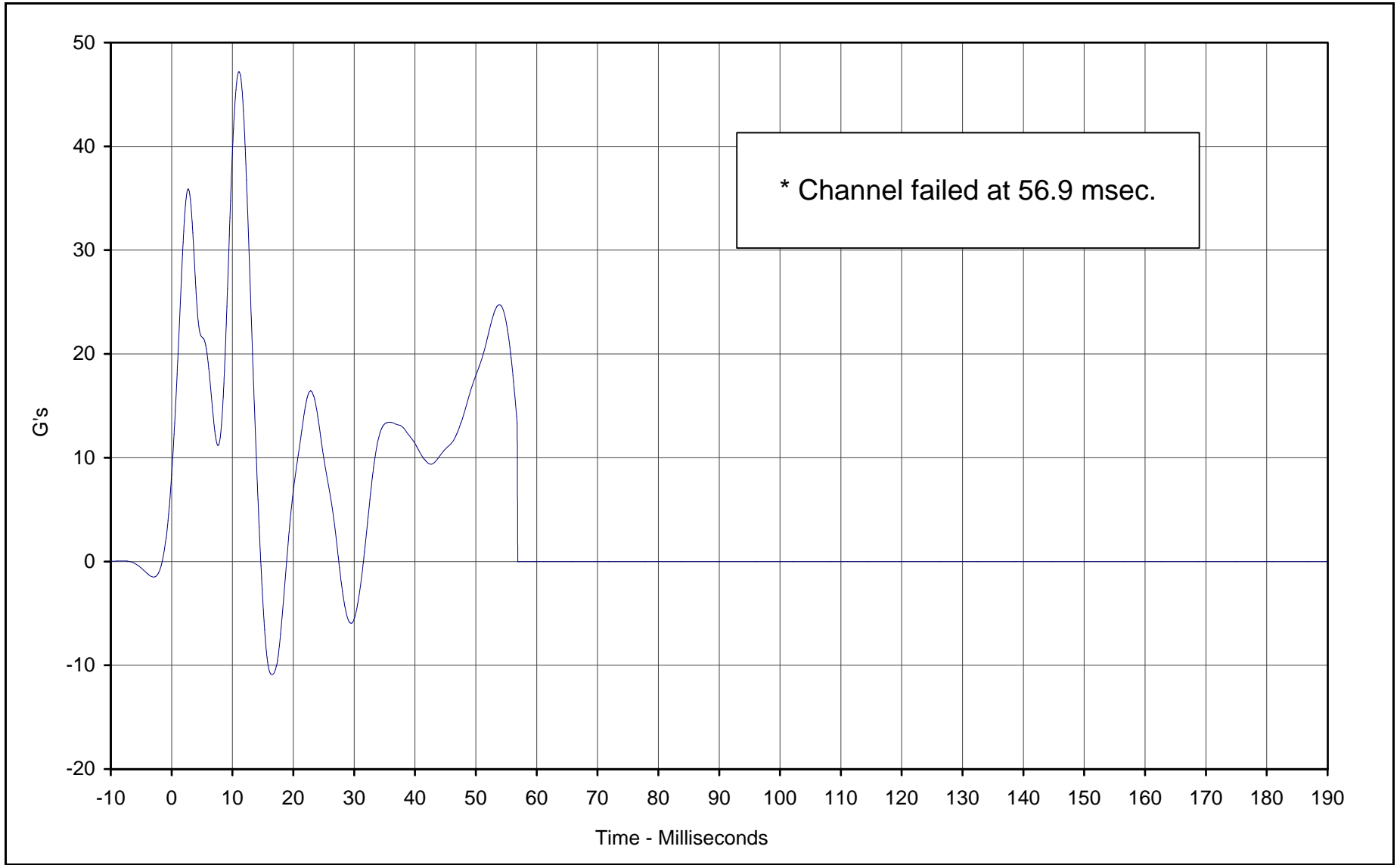
Curve Description: Left A-Post Lower Y Velocity *
Maximum Value: 21.6 at 15.2 Milliseconds
Minimum Value: -0.2 at 0.8 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-046

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

* Channel failed at 51.3 msec.



B-94



Curve Description: Left A-Post Middle Y *
Maximum Value: 47.2 at 11.1 Milliseconds
Minimum Value: -10.9 at 16.5 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-047

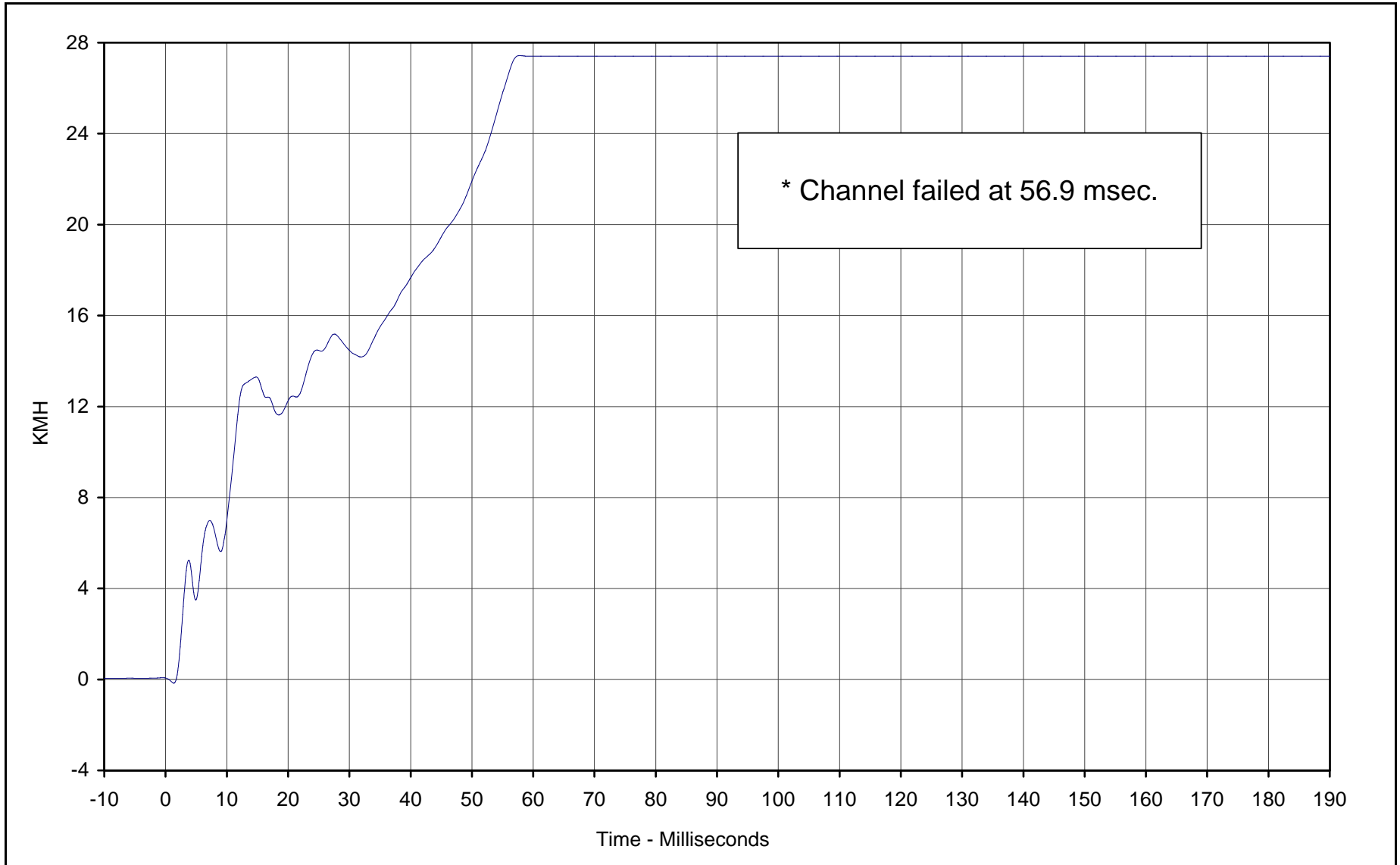
Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

* Channel failed at 56.9 msec.



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B-95



Curve Description: Left A-Post Middle Y Velocity *
Maximum Value: 27.4 at 57.8 Milliseconds
Minimum Value: -0.2 at 1.3 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-047

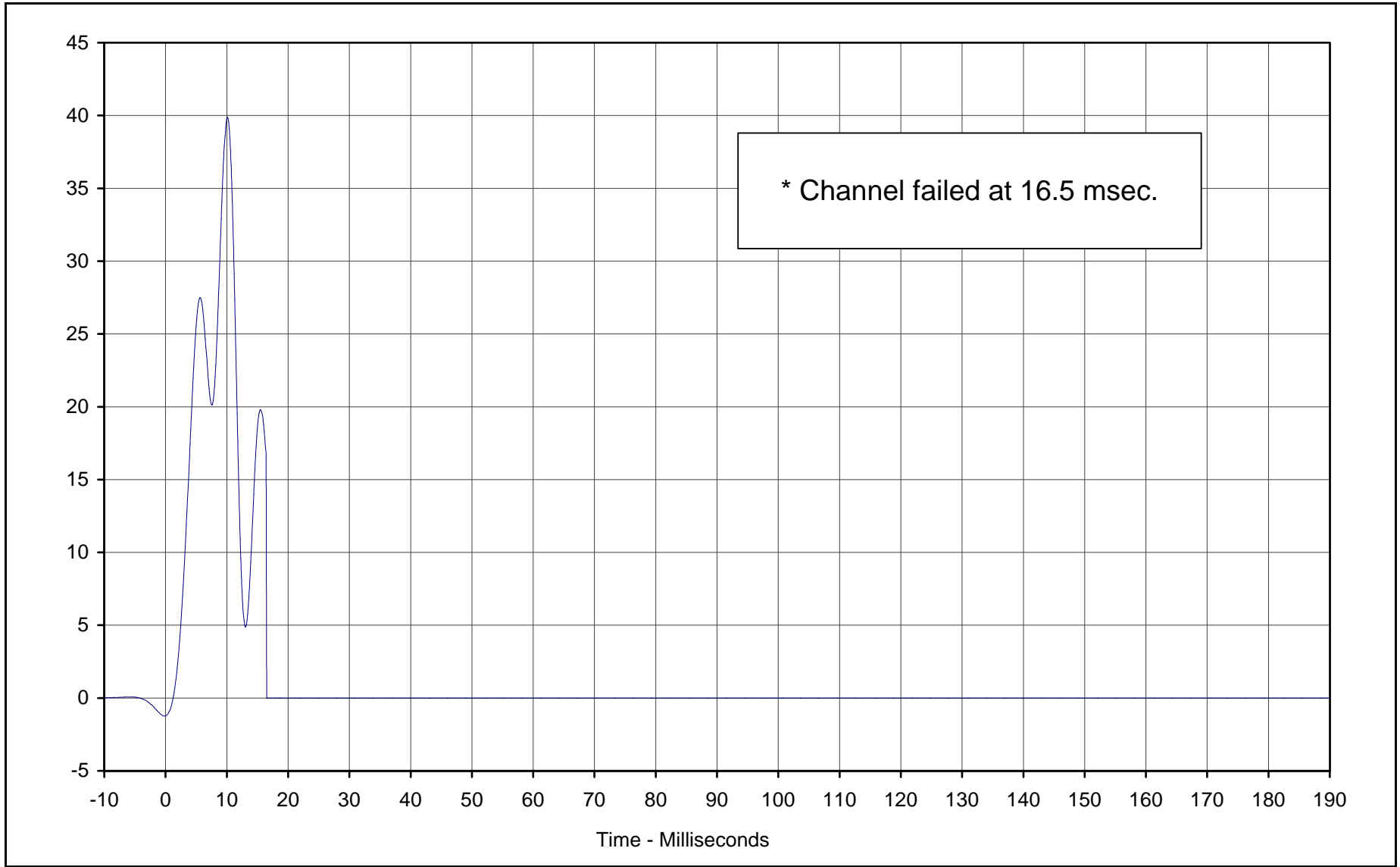
Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

* Channel failed at 56.9 msec.



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B-96



Curve Description: Left Front Seat Track Y *
Maximum Value: 39.9 at 10.1 Milliseconds
Minimum Value: -1.2 at 0.0 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-048

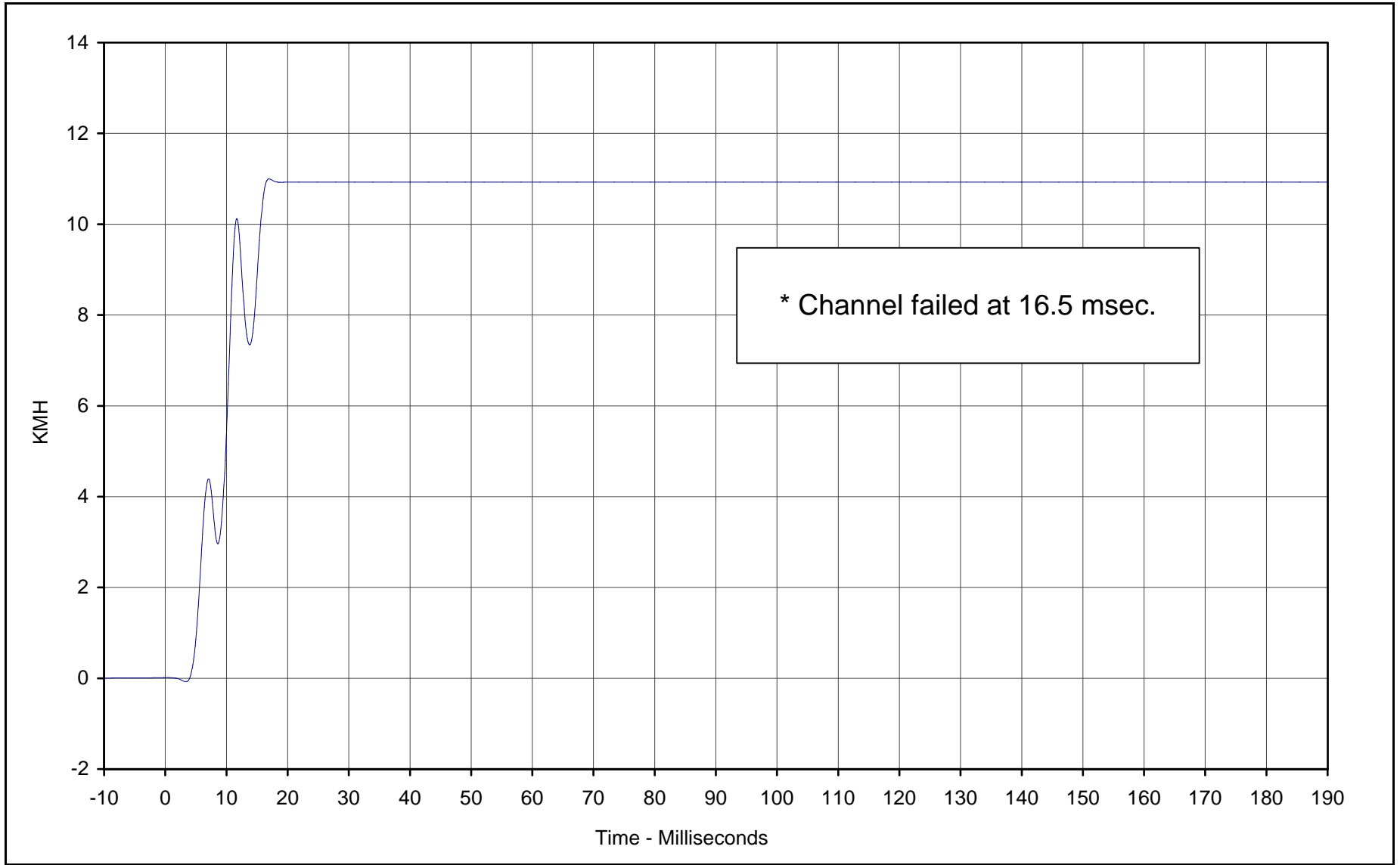
Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

* Channel failed at 16.5 msec.



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B-97



Curve Description: Left Front Seat Track Y Velocity *

Maximum Value: 11.0 at 17.0 Milliseconds

Minimum Value: -0.1 at 3.4 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

Curve Number: IN1-048

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

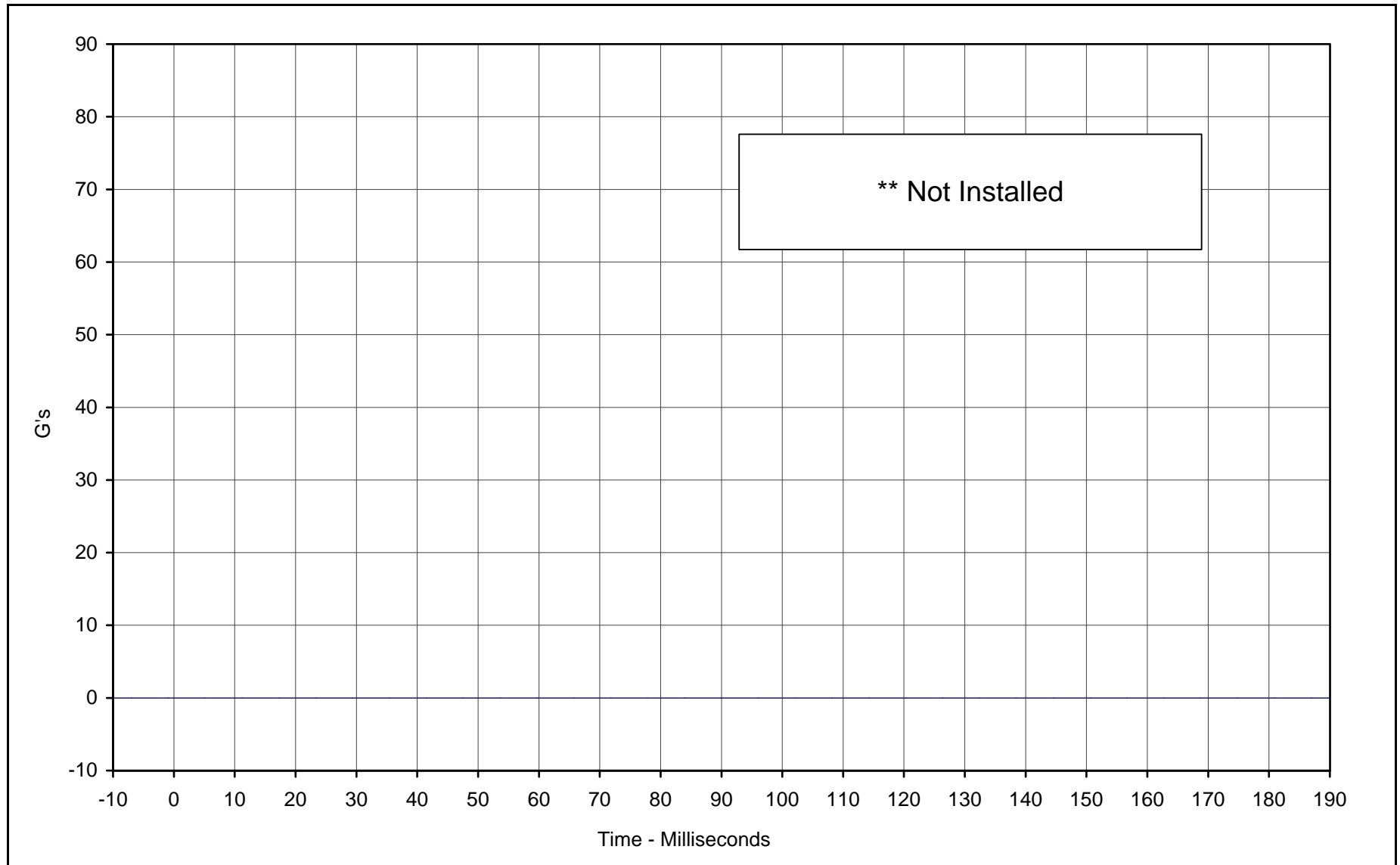
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

* Channel failed at 16.5 msec.



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B-98



Curve Description: Left Rear Seat Structure Y **

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Maximum Value: 0.0 at 0.0 Milliseconds

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 60

Date of Test: 12/22/00

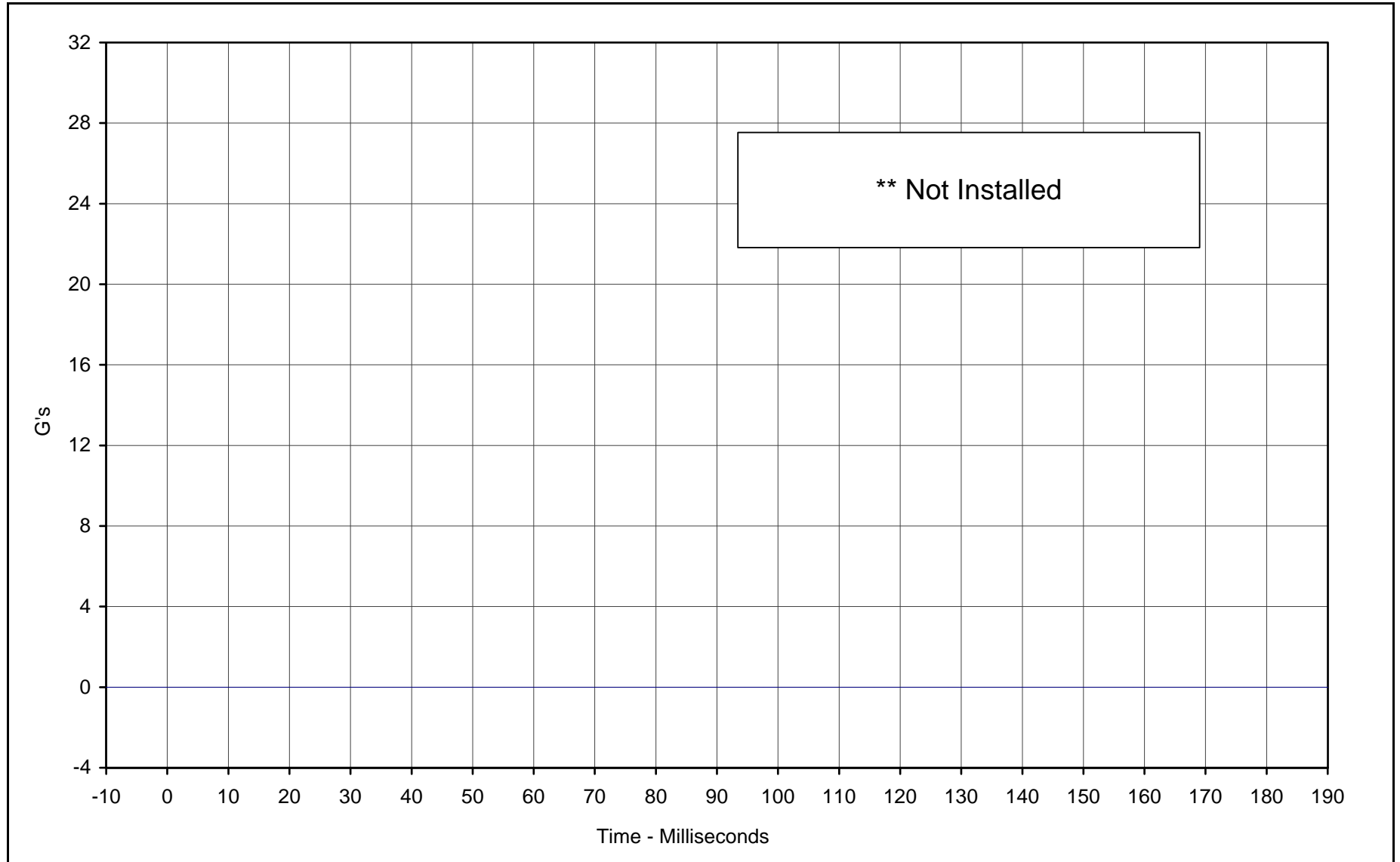
Curve Number: FIL-049

** Not Installed



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B-99



Curve Description: Left Rear Seat Structure Y Velocity **

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Maximum Value: 0.0 at 0.0 Milliseconds

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe

Minimum Value: 0.0 at 0.0 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

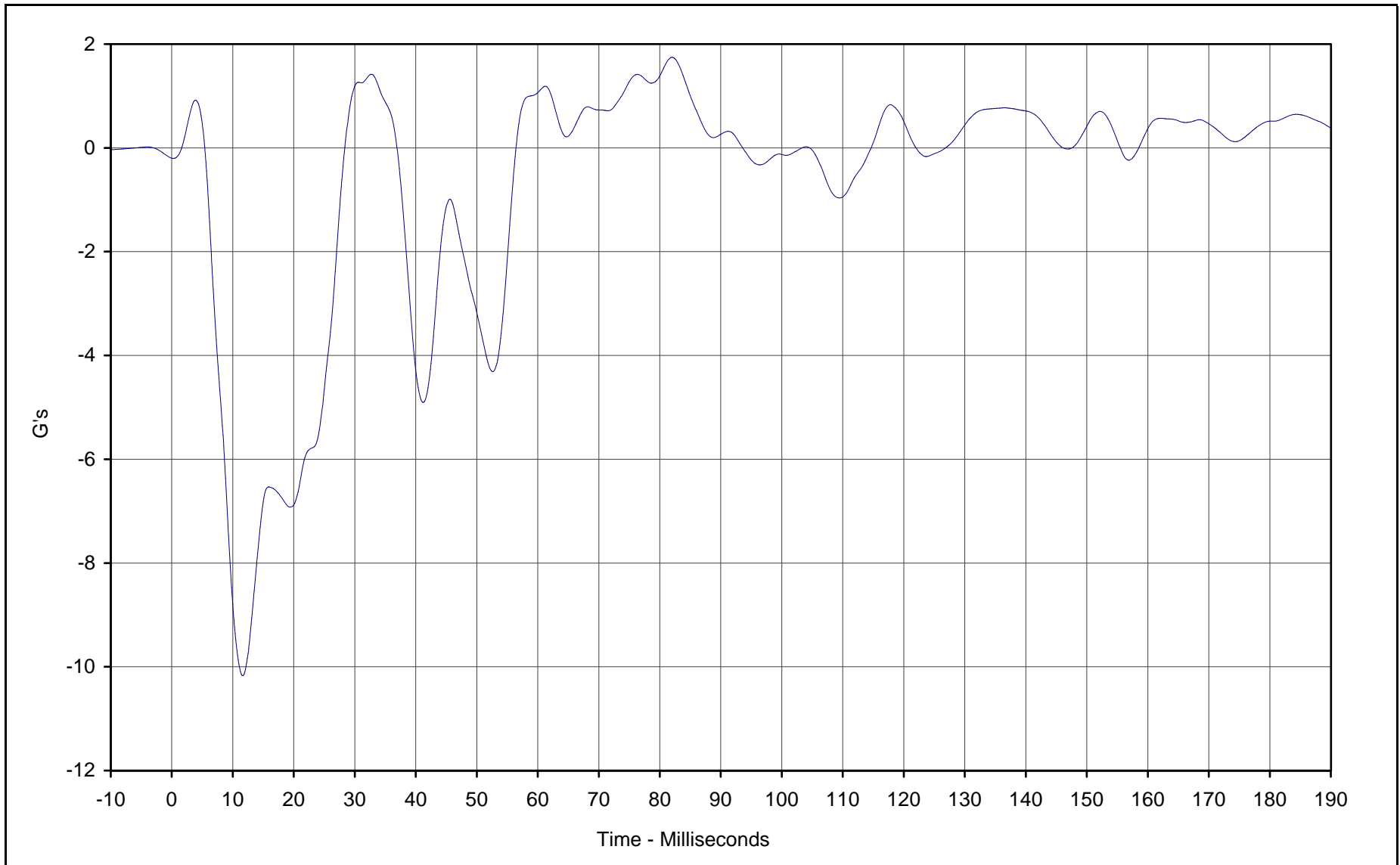
Curve Number: IN1-049

** Not Installed



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B-100



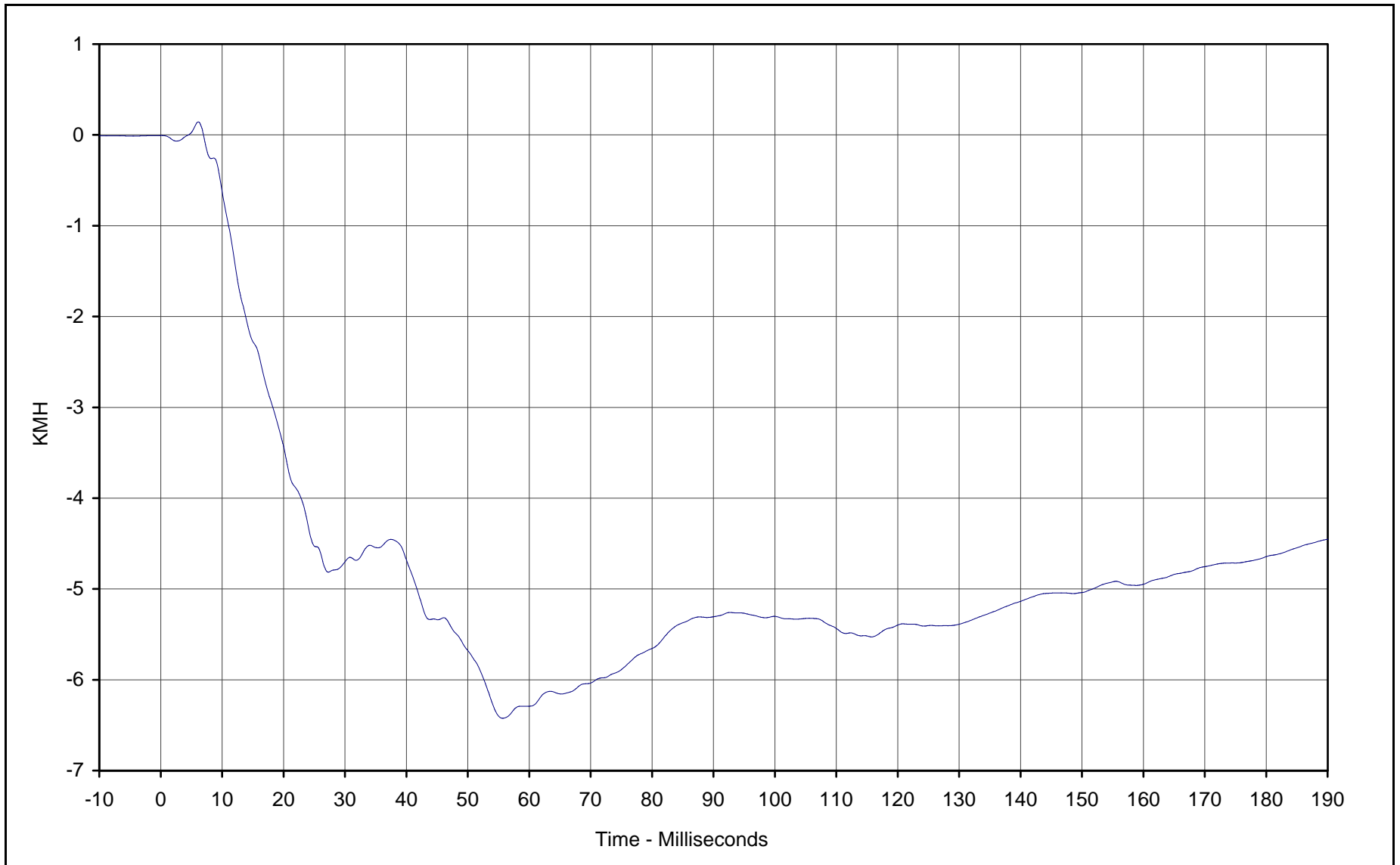
Curve Description: Vehicle CG X
Maximum Value: 1.7 at 82.0 Milliseconds
Minimum Value: -10.2 at 11.6 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-050

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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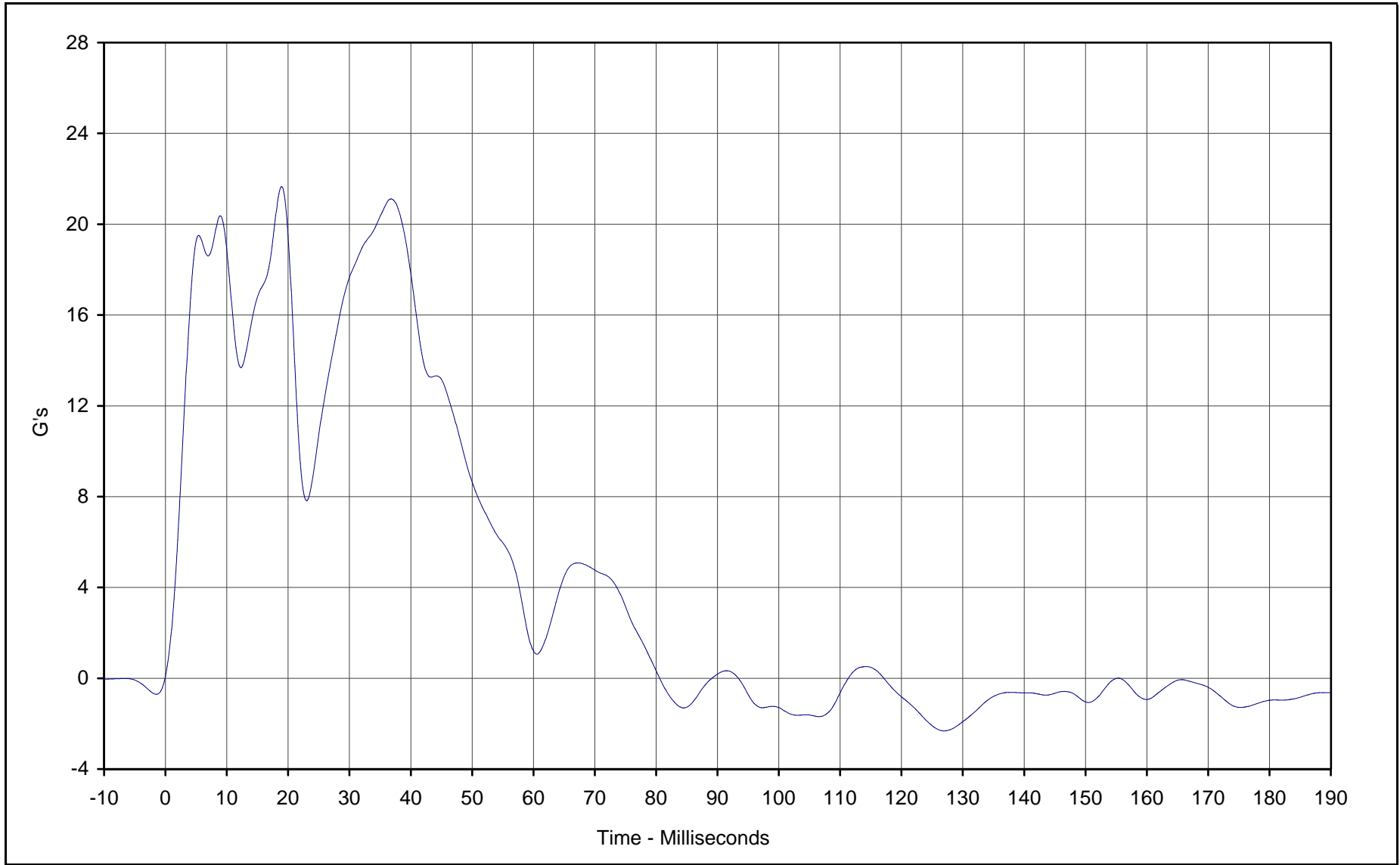
Curve Description: Vehicle CG X Velocity
Maximum Value: 0.1 at 6.1 Milliseconds
Minimum Value: -6.4 at 55.7 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-050

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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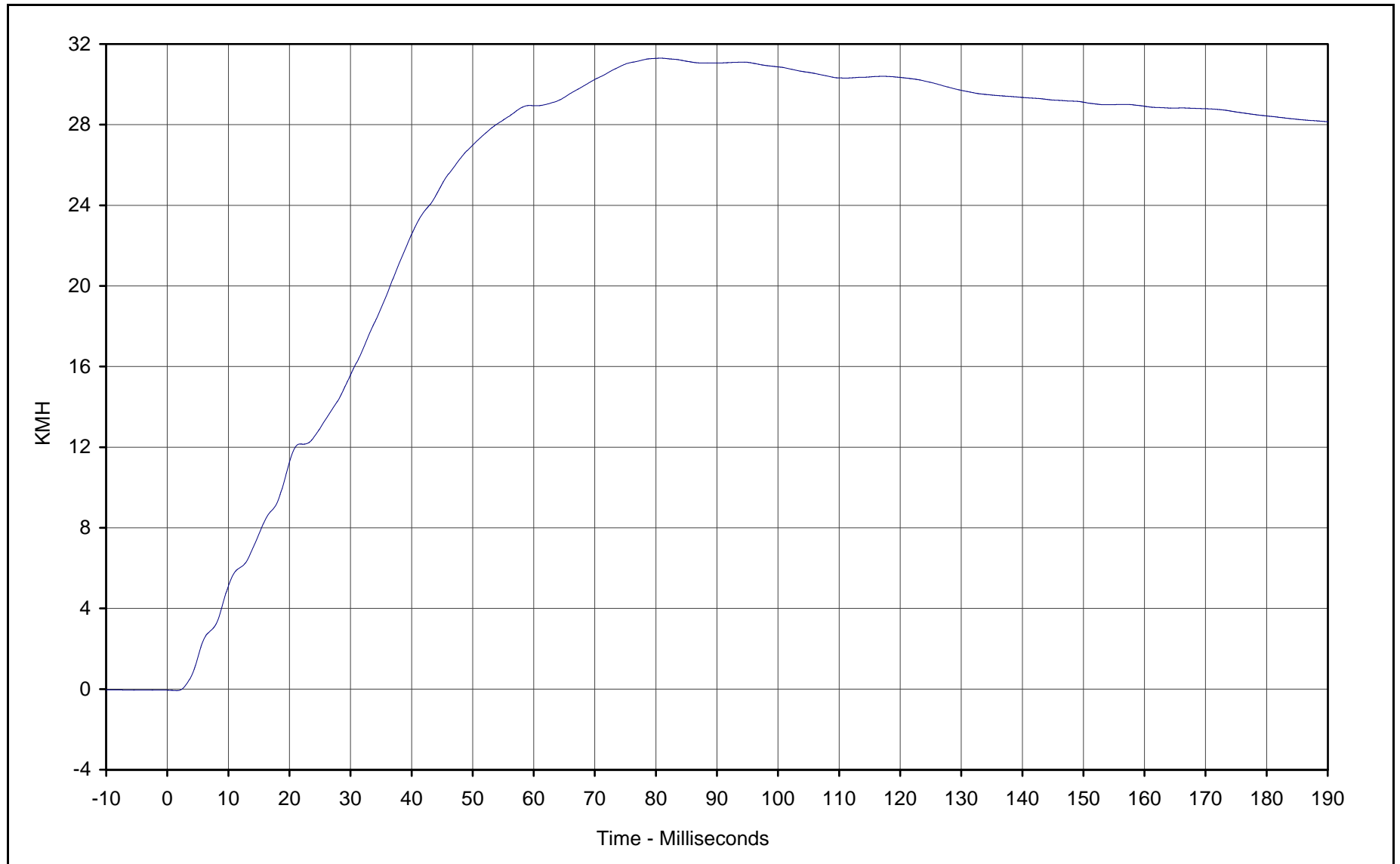


Curve Description: Vehicle CG Y
Maximum Value: 21.7 at 18.9 Milliseconds
Minimum Value: -2.3 at 127.0 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-051

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Vehicle CG Y Velocity

Maximum Value: 31.3 at 80.8 Milliseconds

Minimum Value: -0.1 at 1.5 Milliseconds

SAE Filter Class: 180

Date of Test: 12/22/00

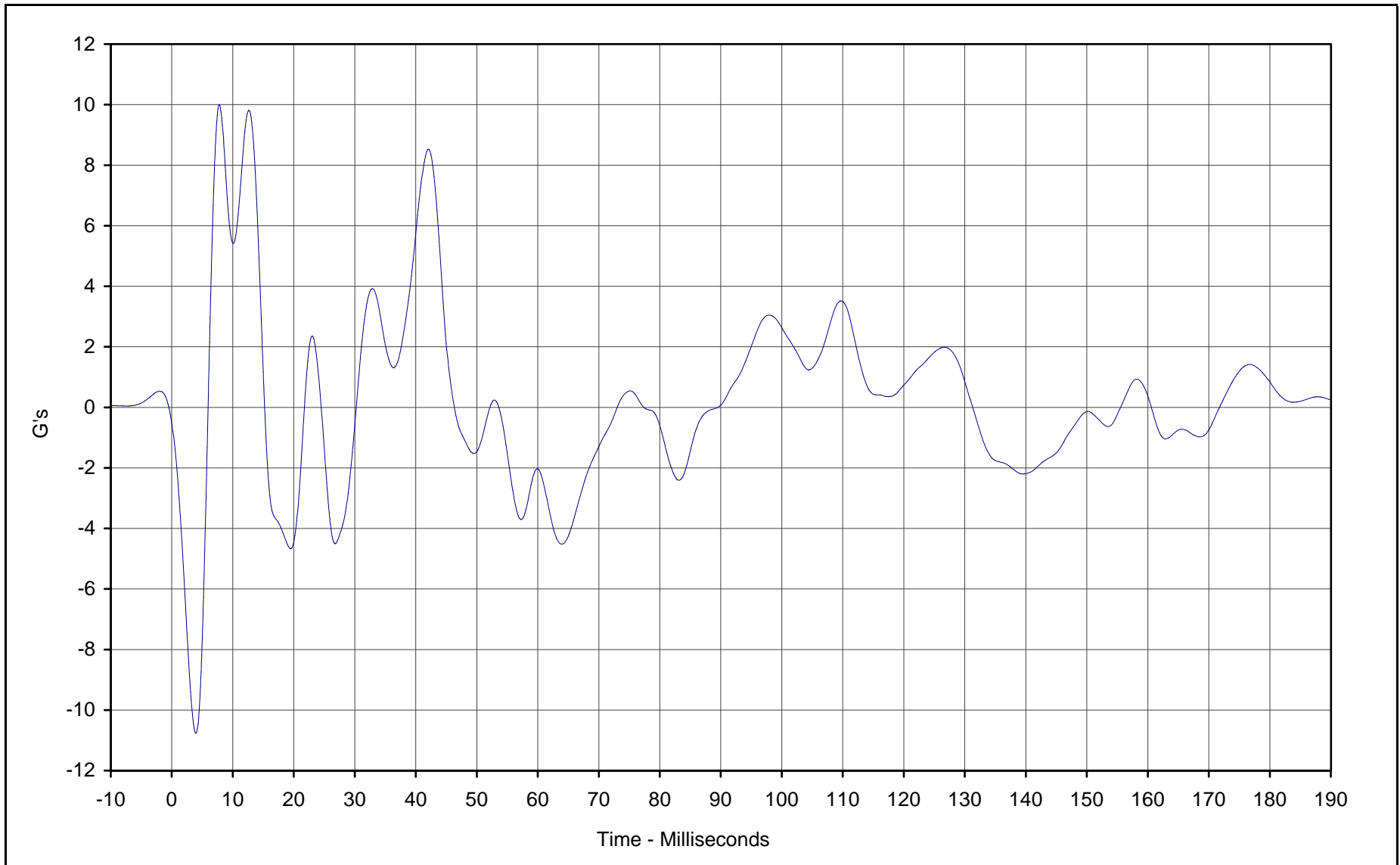
Curve Number: IN1-051

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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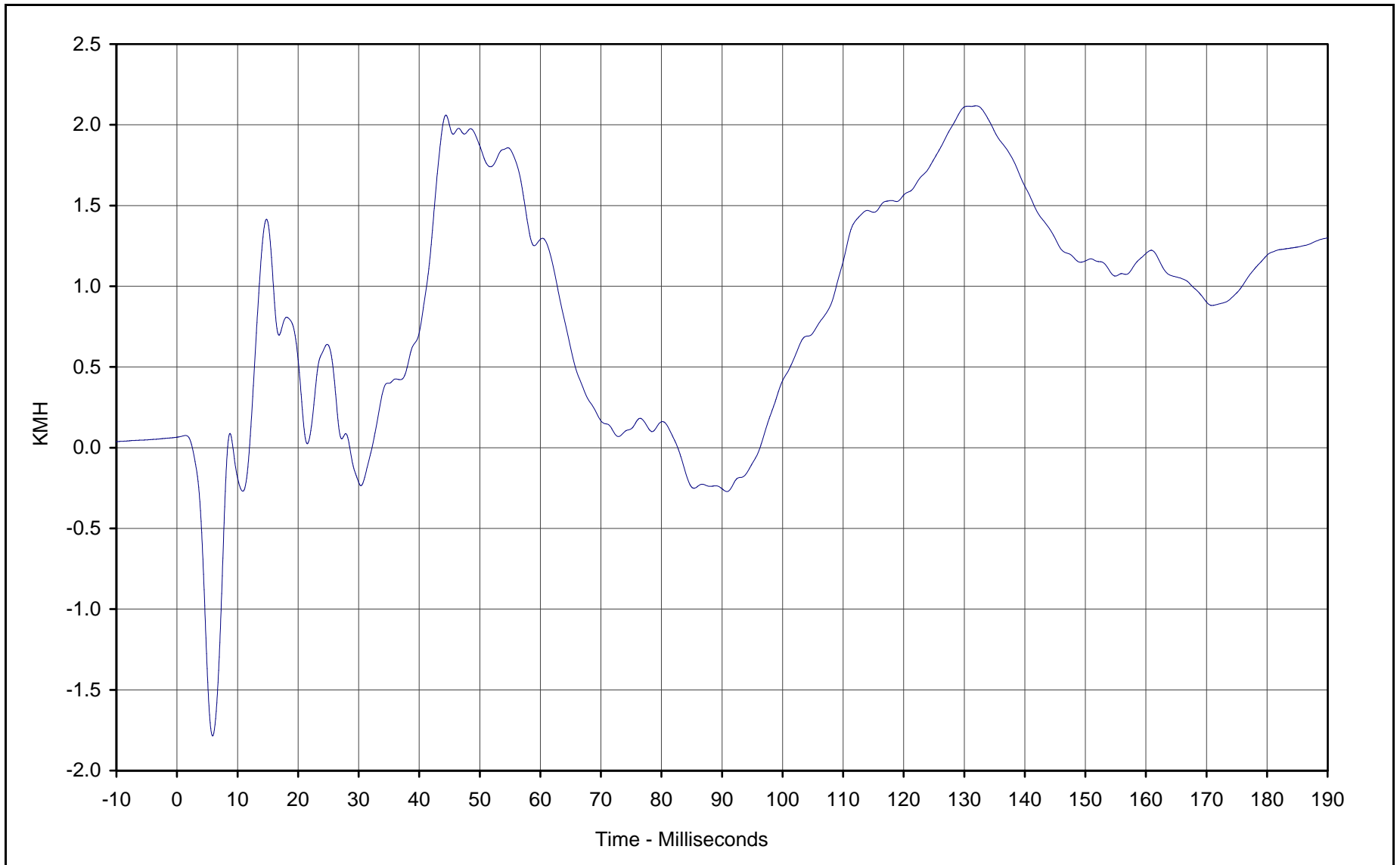
Curve Description: Vehicle CG Z
Maximum Value: 10.0 at 7.8 Milliseconds
Minimum Value: -10.8 at 4.0 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-052

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-105

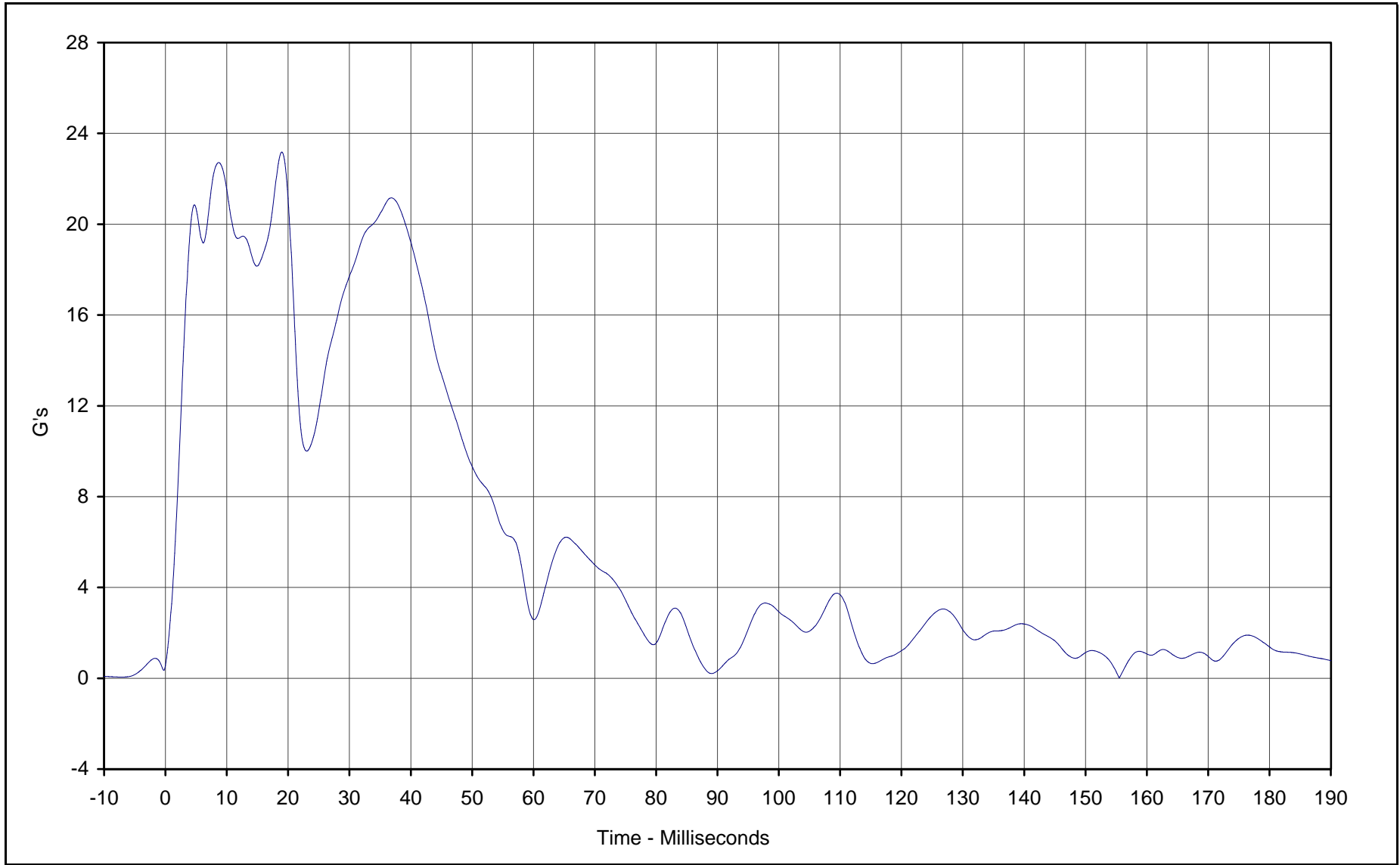


Curve Description: Vehicle CG Z Velocity
Maximum Value: 2.1 at 132.0 Milliseconds
Minimum Value: -1.8 at 5.9 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-052

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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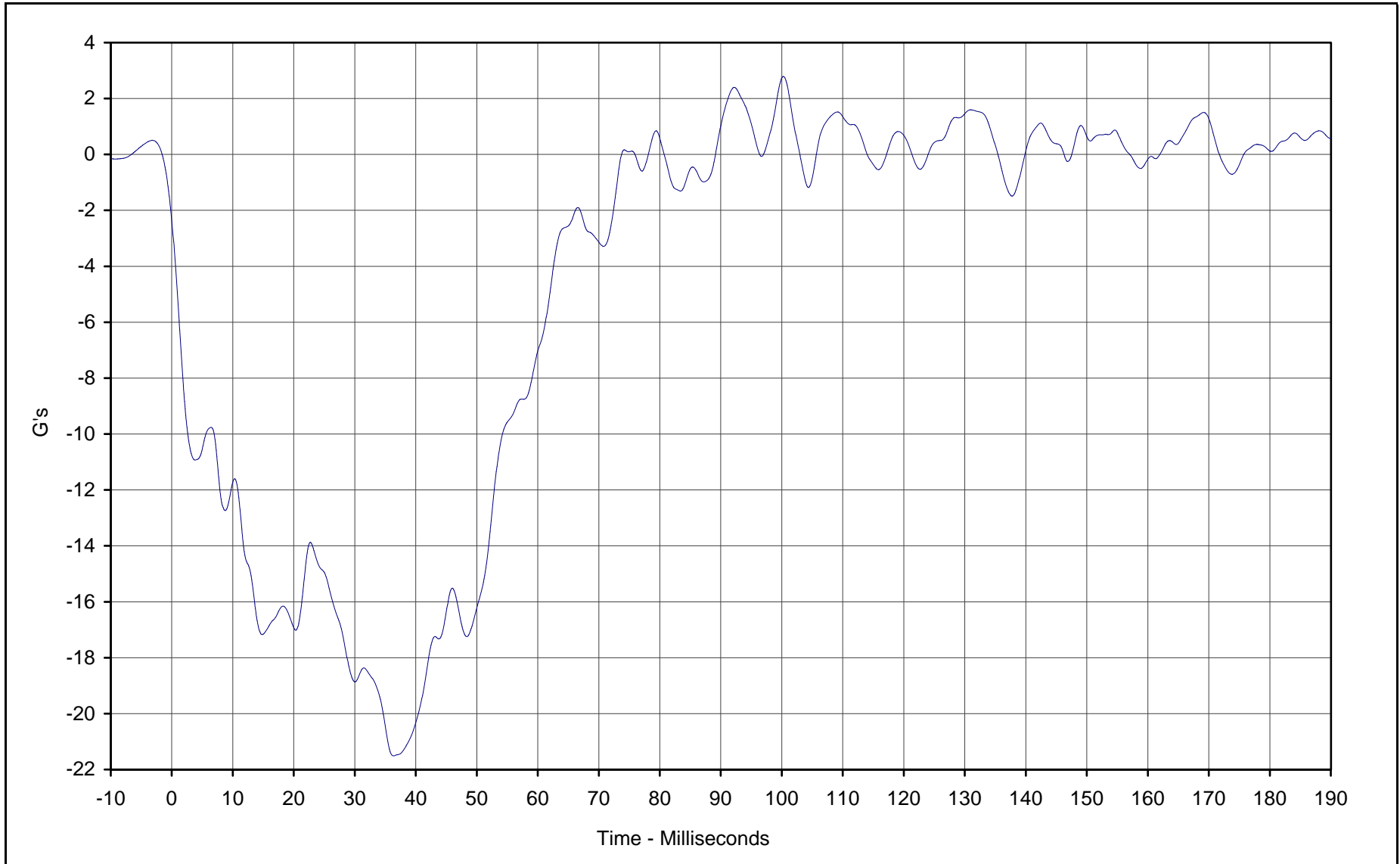


Curve Description: Vehicle CG Resultant
 Maximum Value: 23.2 at 19.0 Milliseconds
 Minimum Value: 0.0 at 155.5 Milliseconds
 SAE Filter Class: 60
 Date of Test: 12/22/00
 Curve Number: RES-050

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



B-107



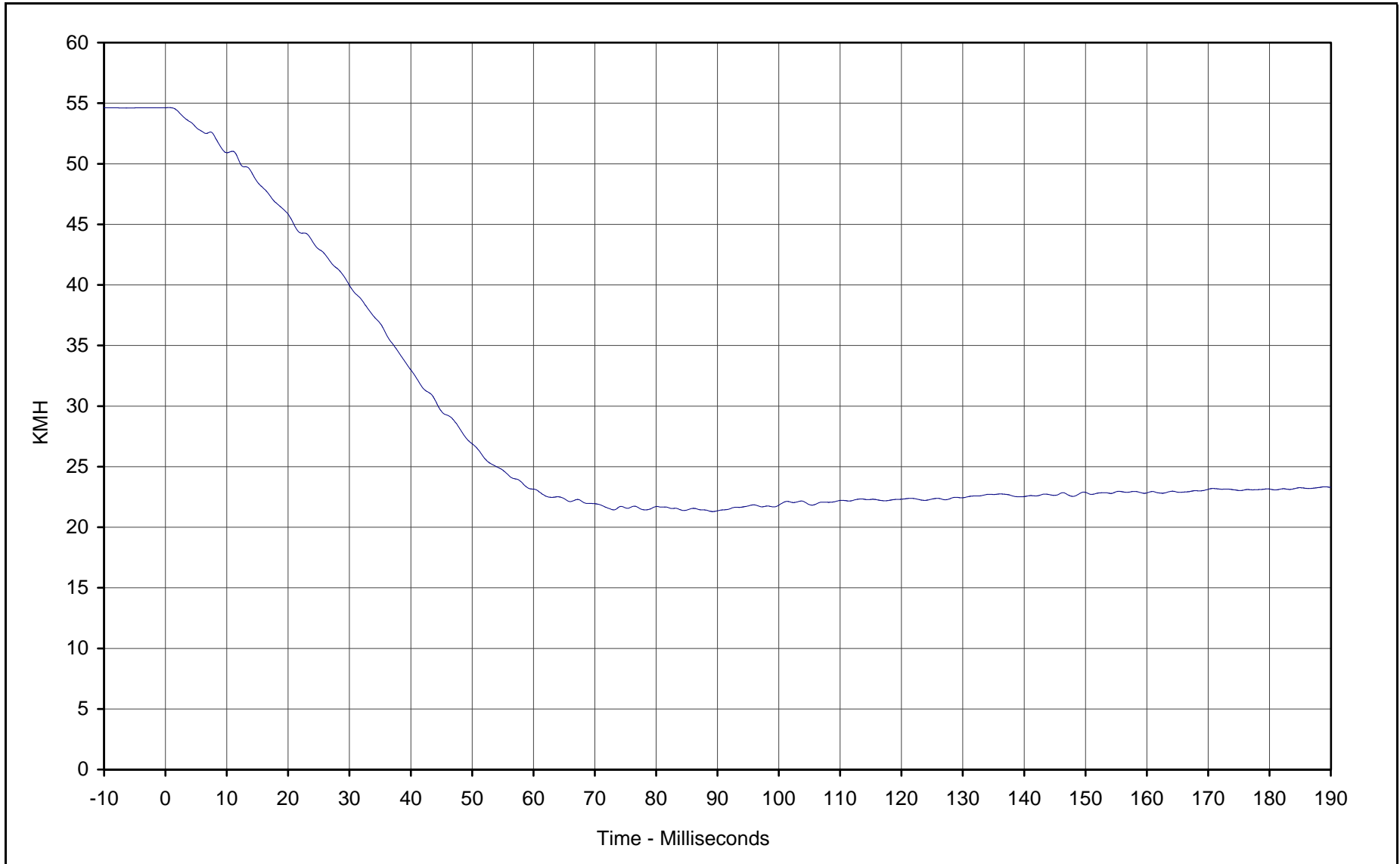
Curve Description: MDB CG X
Maximum Value: 2.8 at 100.3 Milliseconds
Minimum Value: -21.5 at 36.4 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-053

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-108



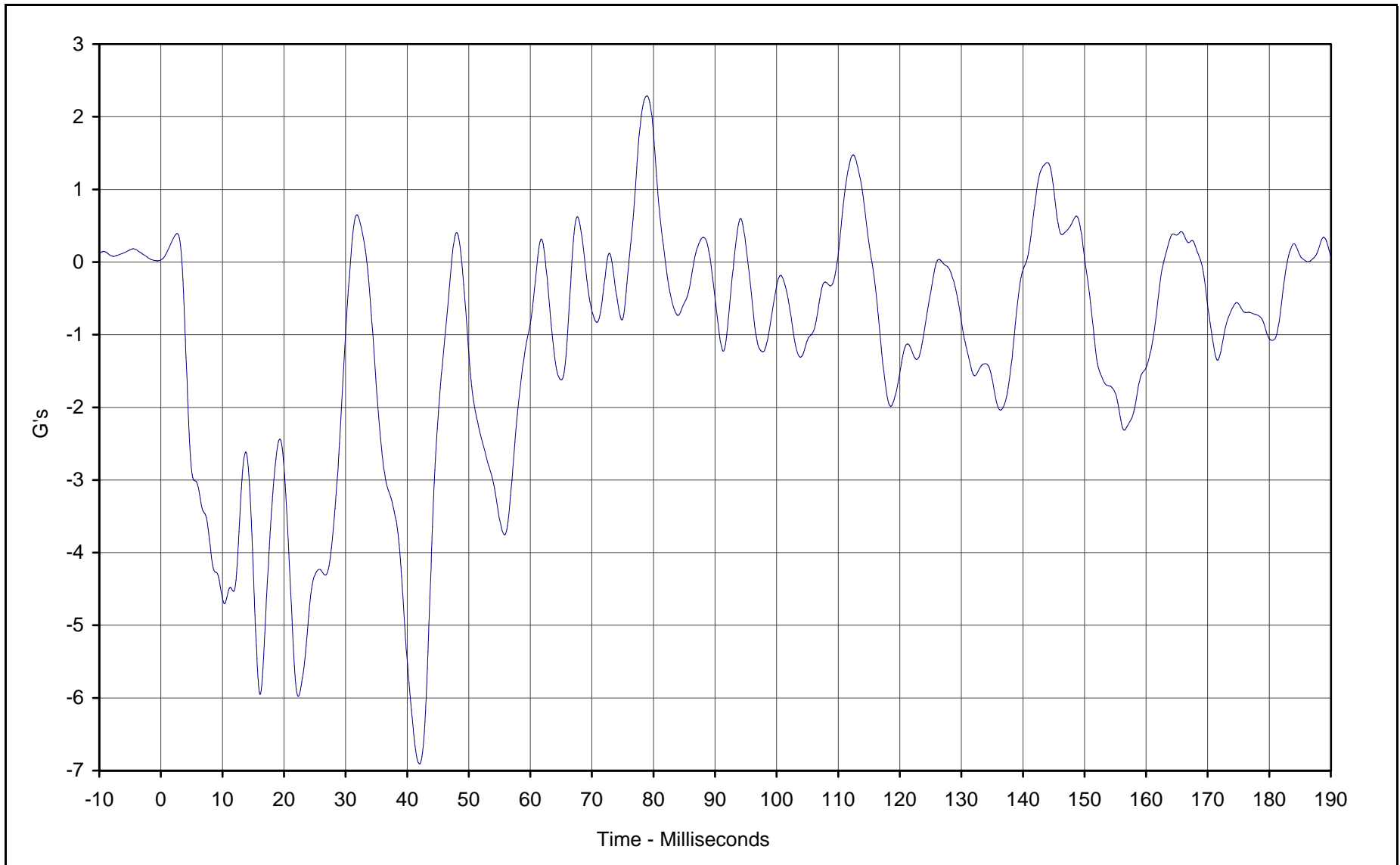
Curve Description: MDB CG X Velocity
Maximum Value: 54.6 at 0.6 Milliseconds
Minimum Value: 21.3 at 89.2 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-053

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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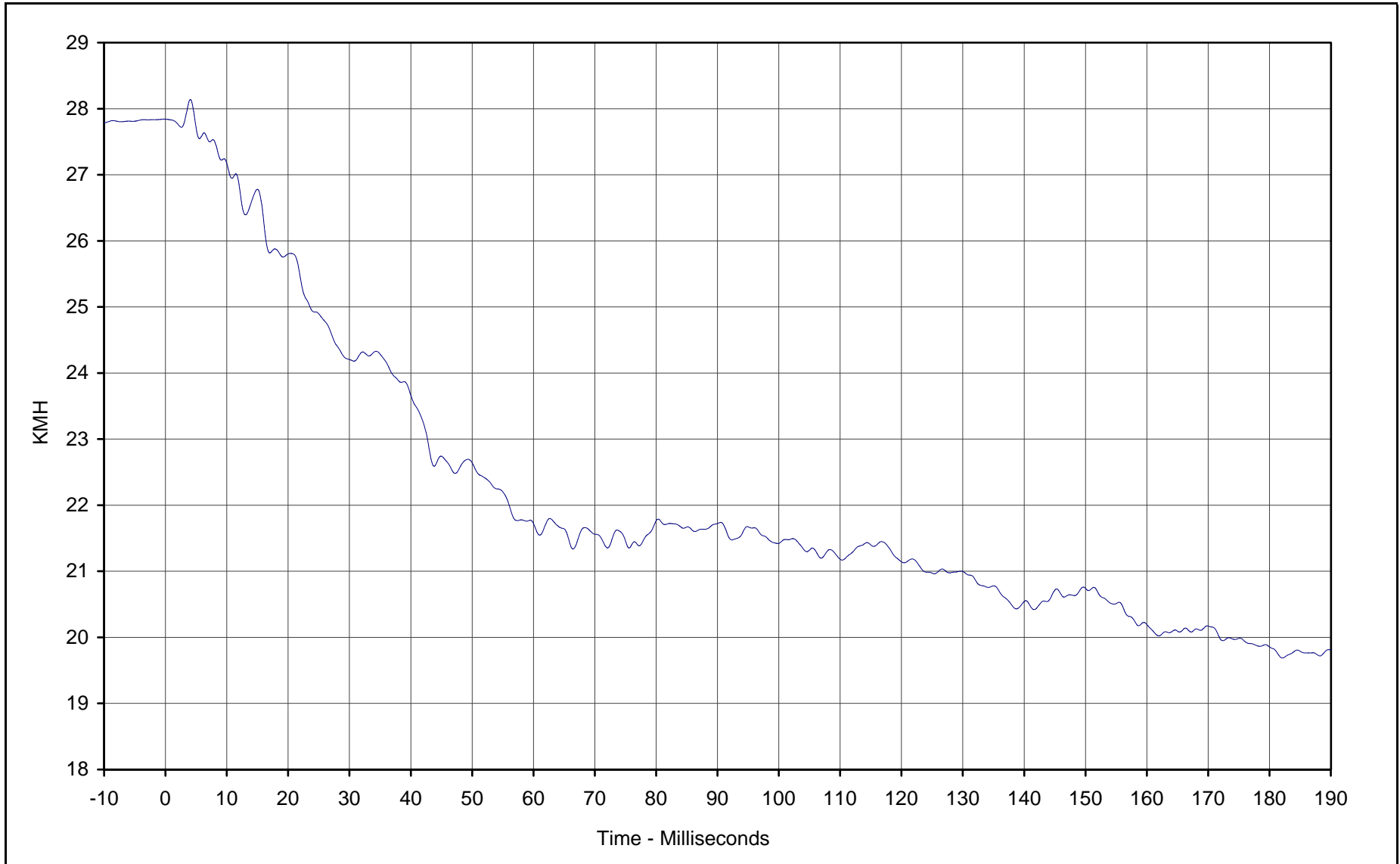
Curve Description: MDB CG Y
Maximum Value: 2.3 at 78.9 Milliseconds
Minimum Value: -6.9 at 42.0 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-054

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-110



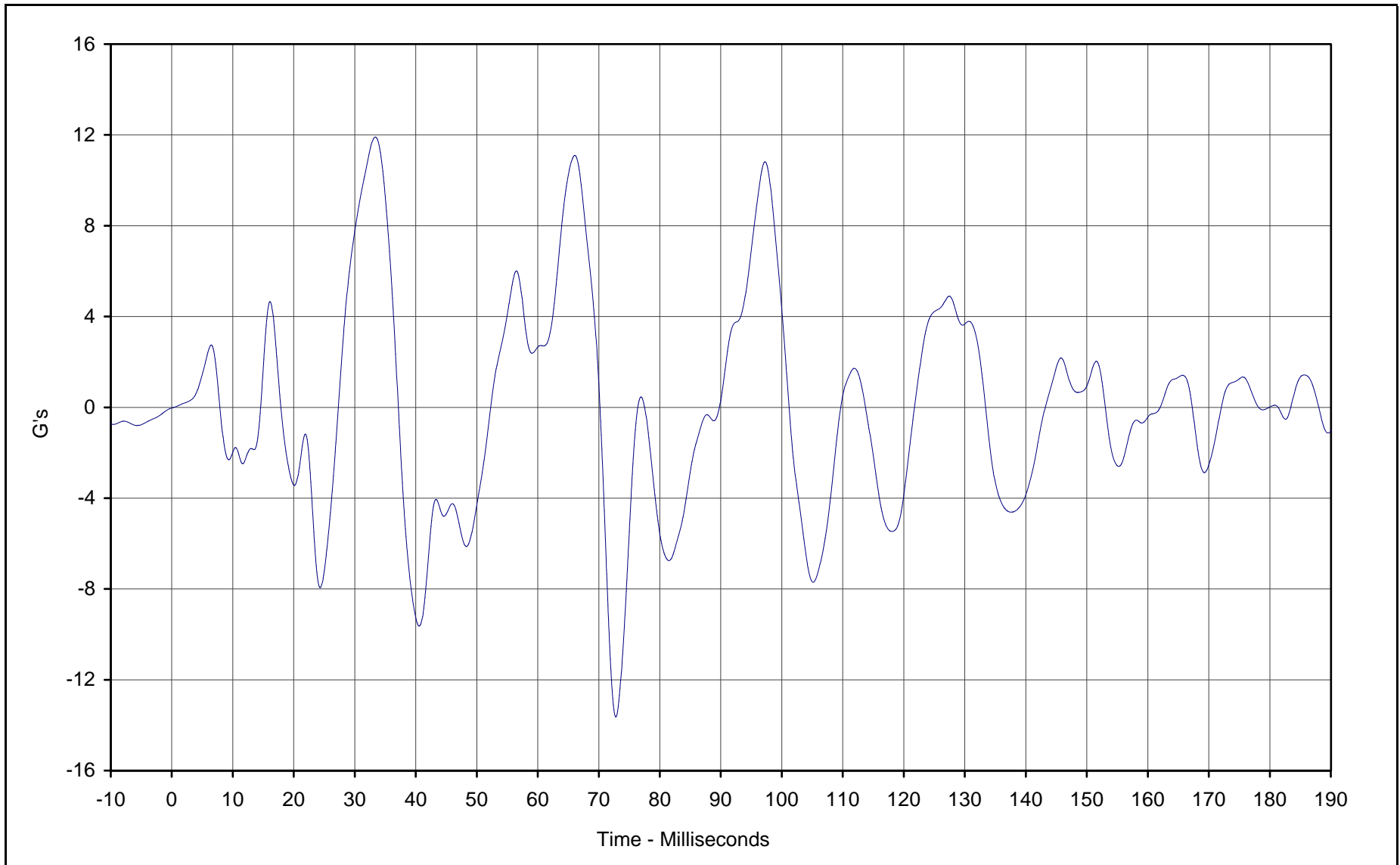
Curve Description: MDB CG Y Velocity
Maximum Value: 28.1 at 4.1 Milliseconds
Minimum Value: 19.7 at 182.1 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-054

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-111



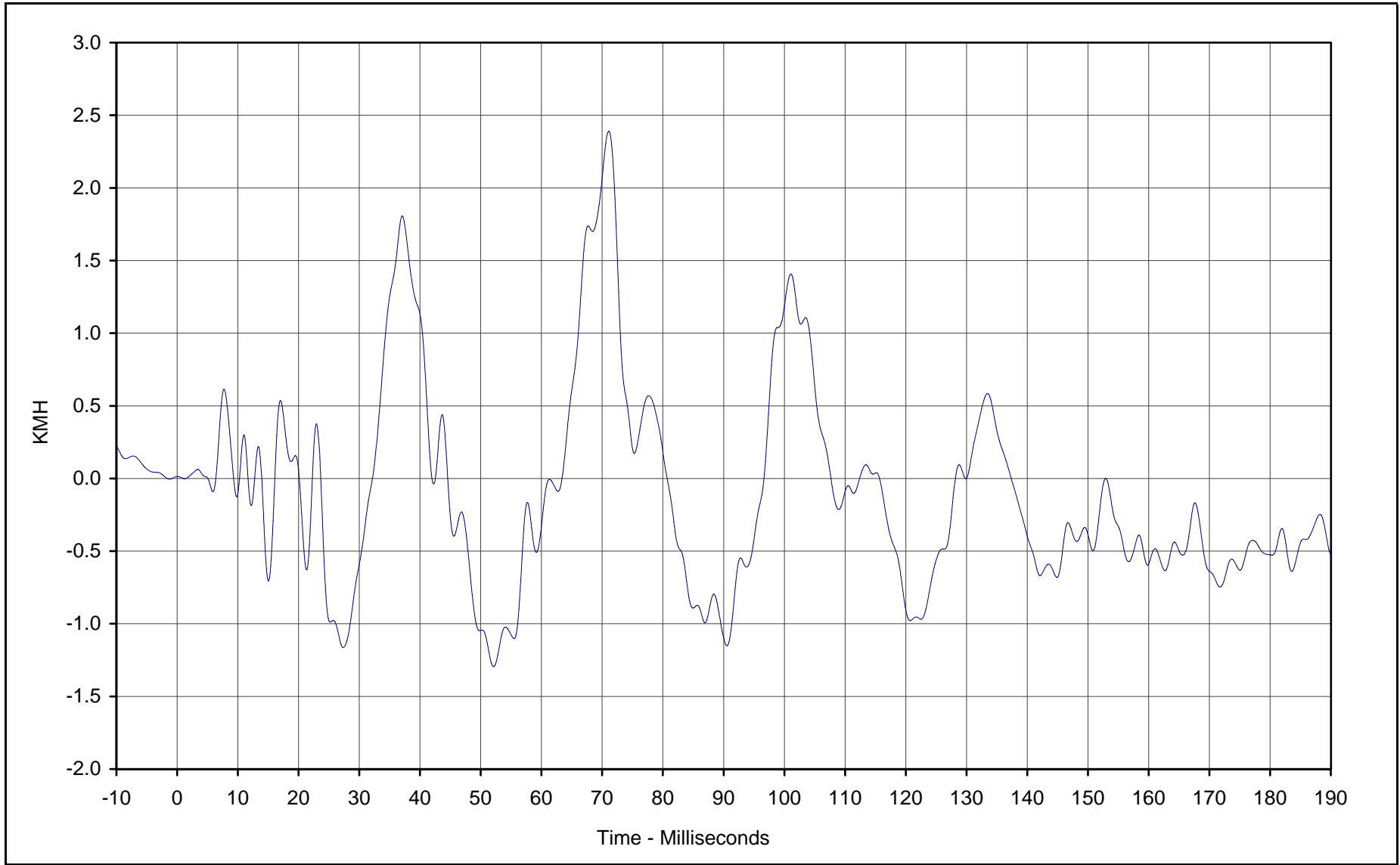
Curve Description: MDB CG Z
Maximum Value: 11.9 at 33.4 Milliseconds
Minimum Value: -13.6 at 72.8 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-055

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-112

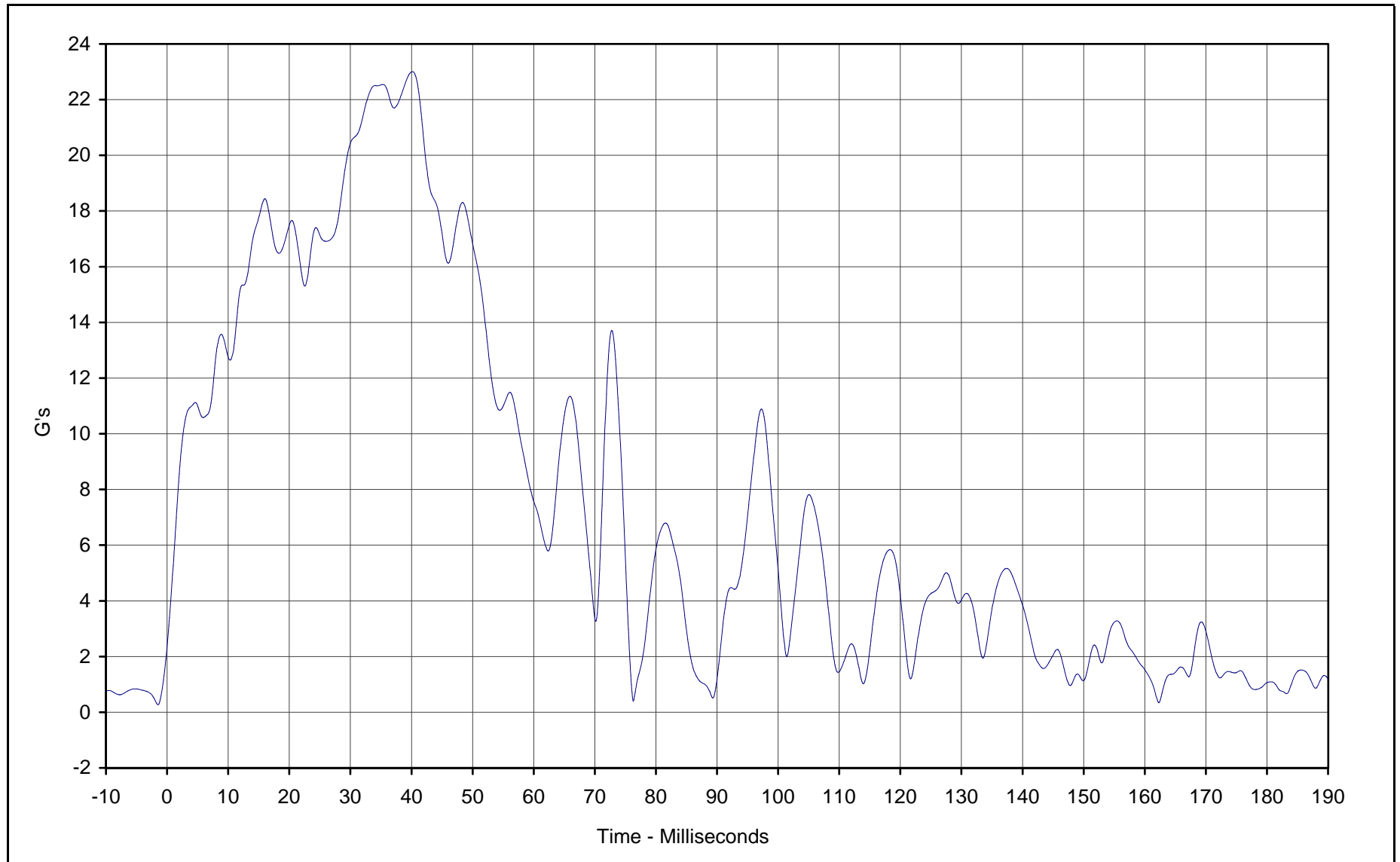


Curve Description: MDB CG Z Velocity
Maximum Value: 2.4 at 71.1 Milliseconds
Minimum Value: -1.3 at 52.1 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-055

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



KAR21003-08

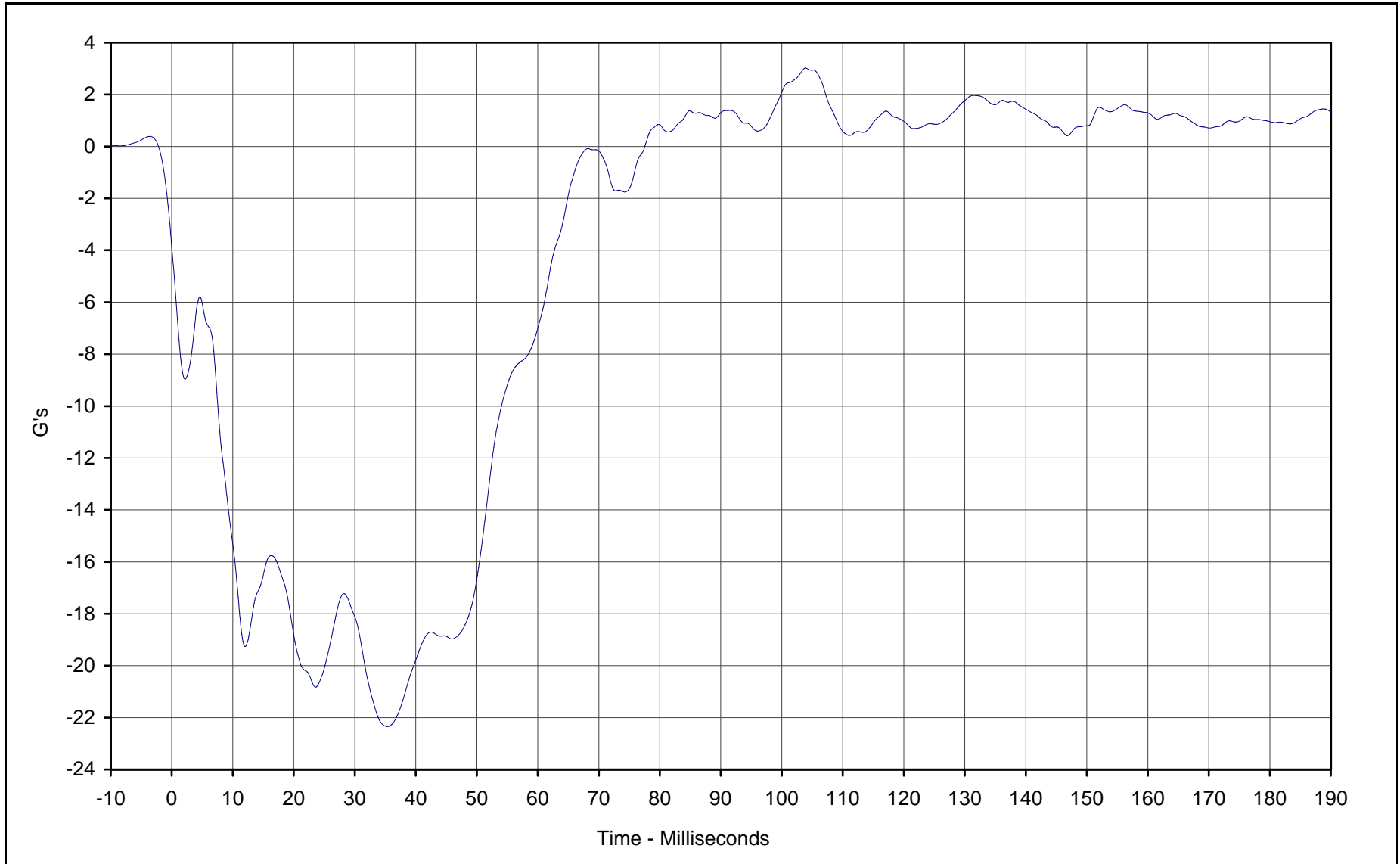


Curve Description: CG Resultant
 Maximum Value: 23.0 at 40.1 Milliseconds
 Minimum Value: 0.3 at 162.3 Milliseconds
 SAE Filter Class: 60
 Date of Test: 12/22/00
 Curve Number: RES-053

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
 Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



B-114



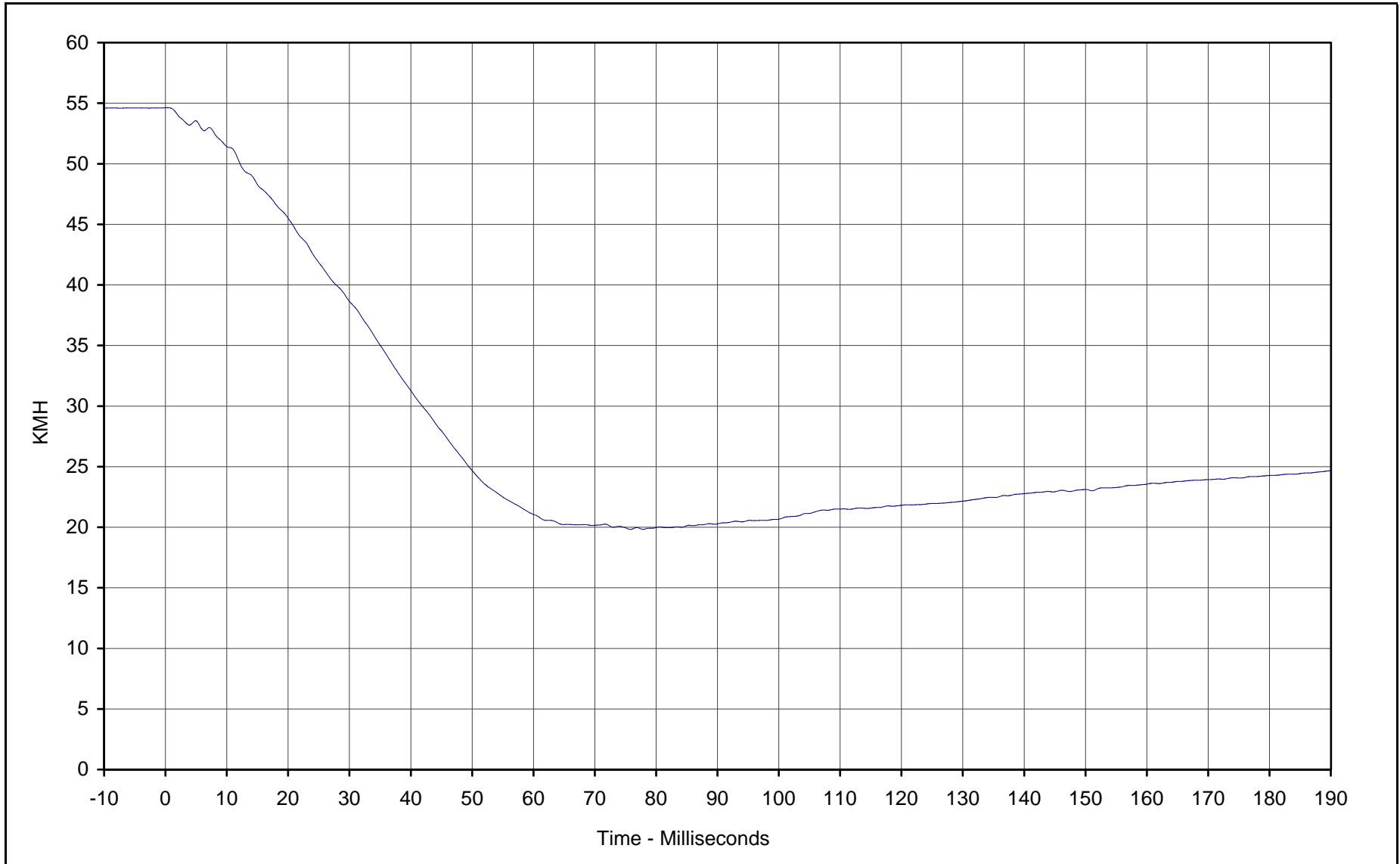
Curve Description: MDB Rear X
Maximum Value: 3.0 at 103.9 Milliseconds
Minimum Value: -22.3 at 35.3 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-056

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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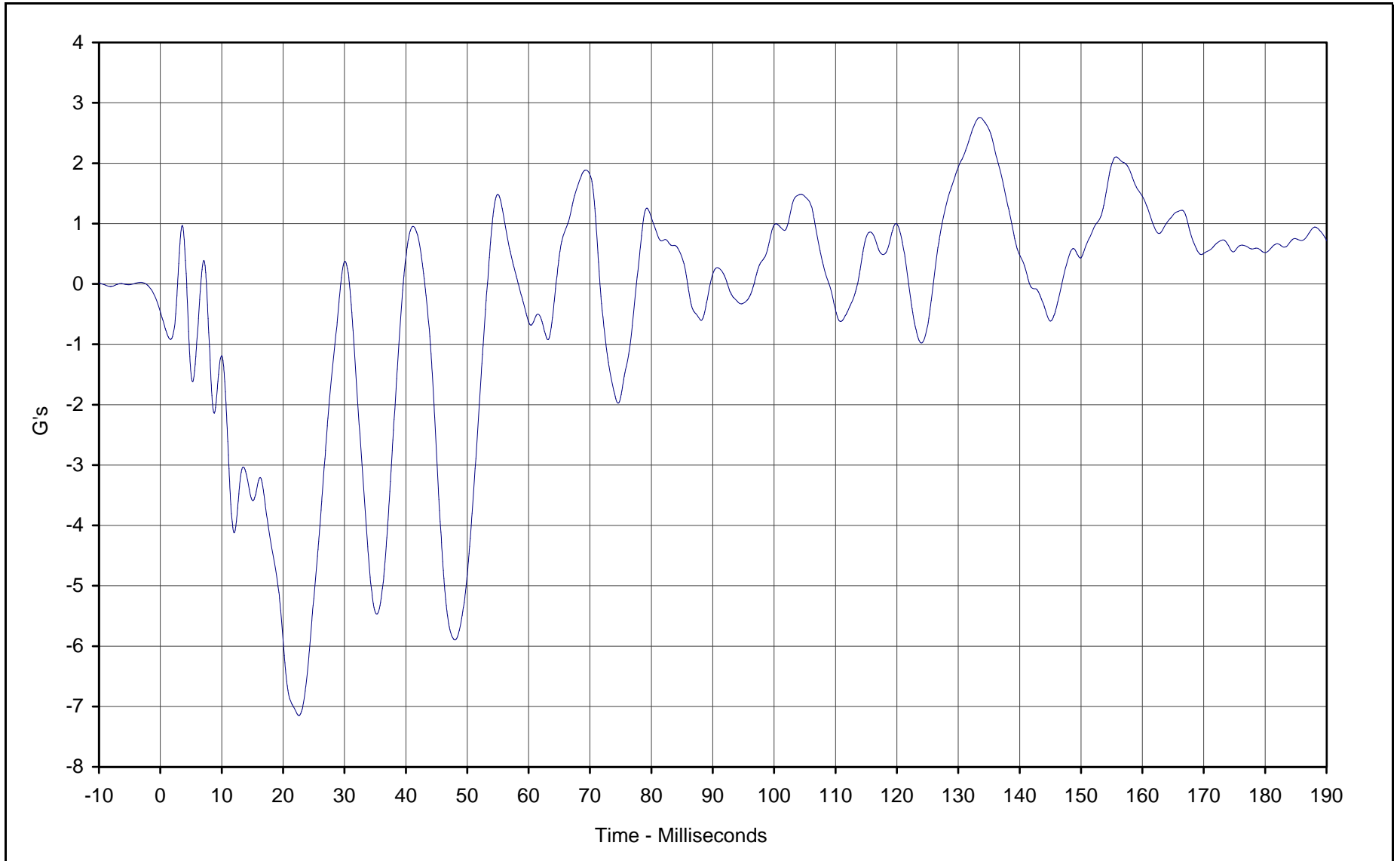
Curve Description: MDB Rear X Velocity
Maximum Value: 54.6 at 0.4 Milliseconds
Minimum Value: 19.8 at 75.8 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-056

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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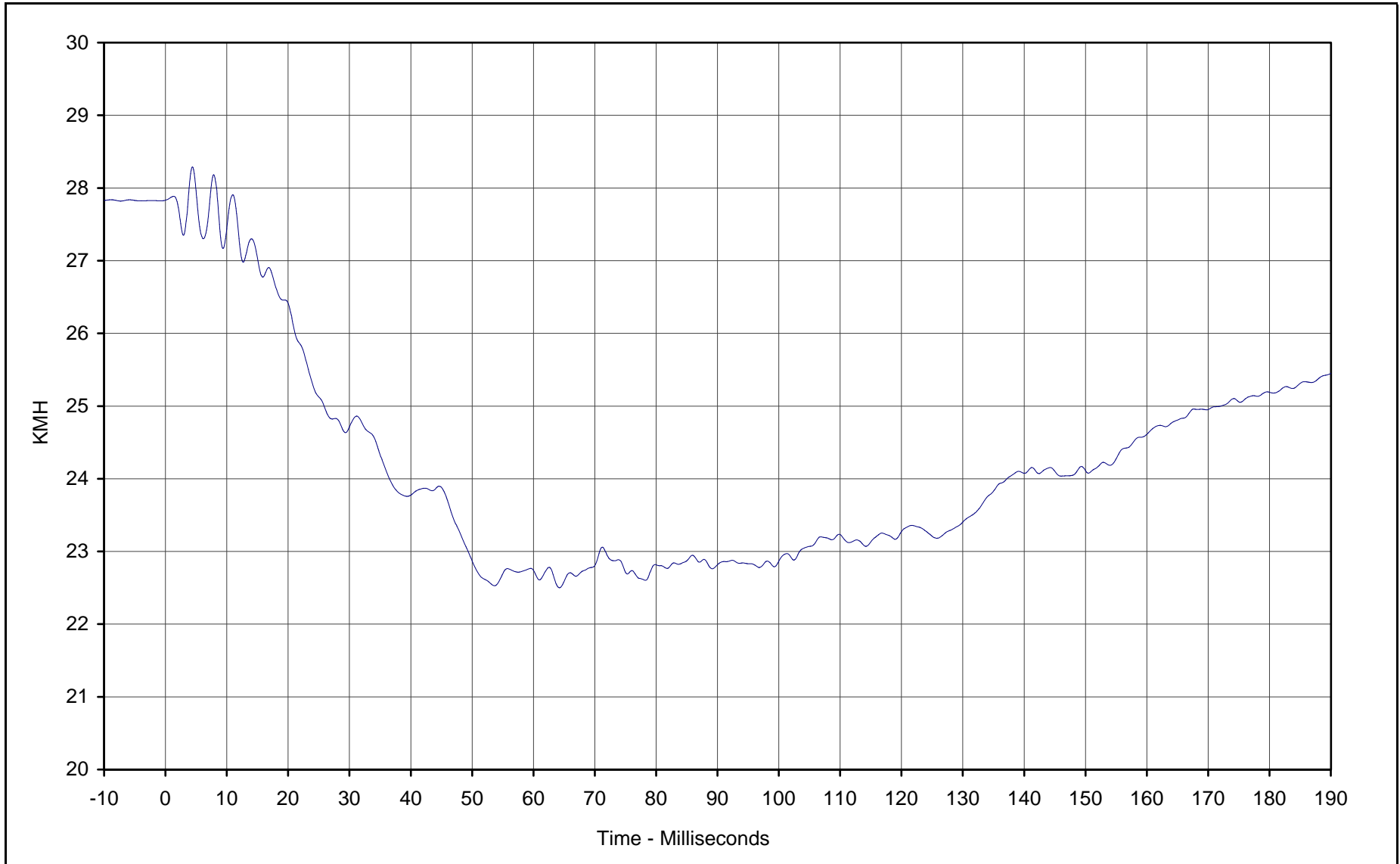
Curve Description: MDB Rear Y
Maximum Value: 2.8 at 133.5 Milliseconds
Minimum Value: -7.2 at 22.6 Milliseconds
SAE Filter Class: 60
Date of Test: 12/22/00
Curve Number: FIL-057

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-117



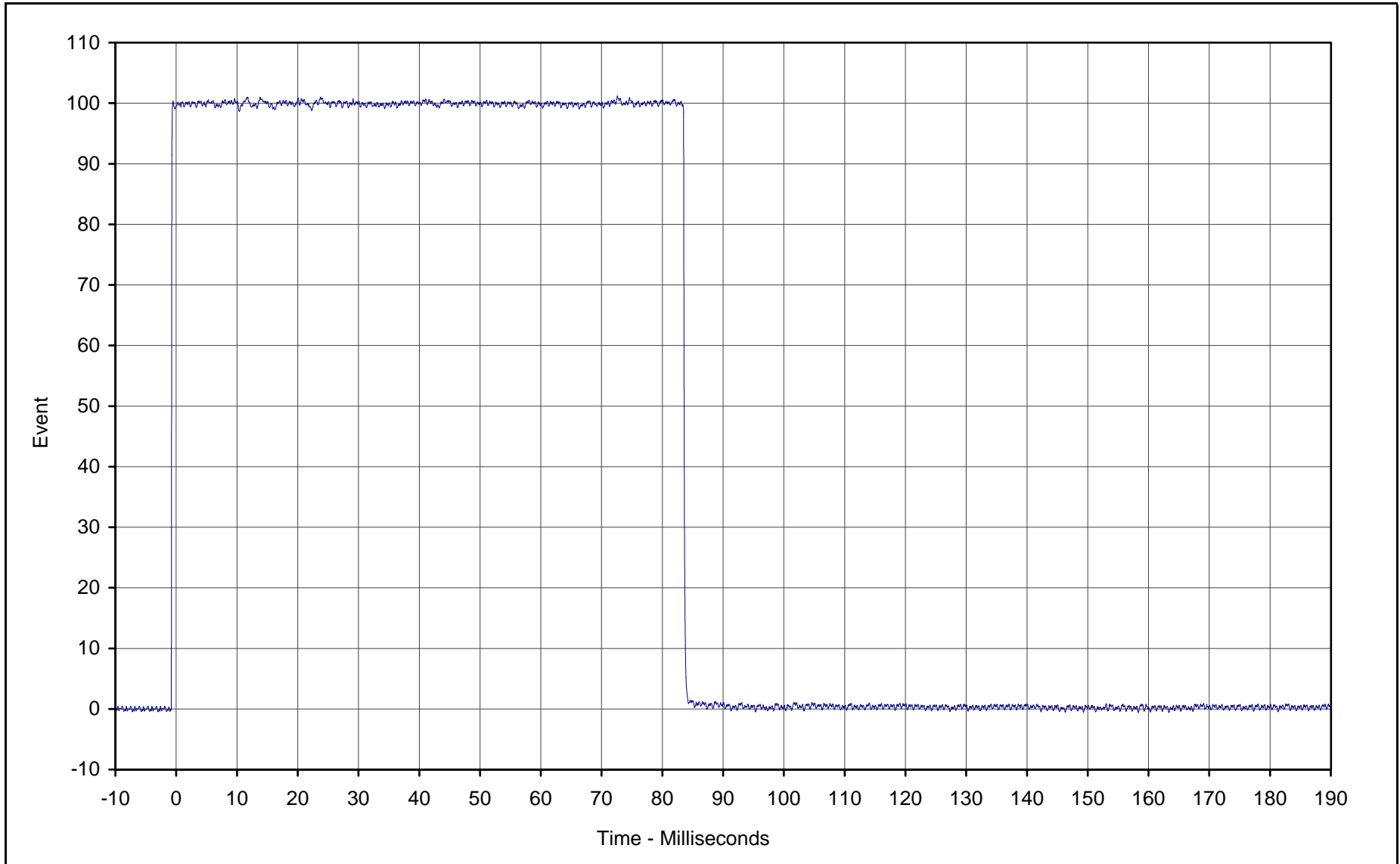
Curve Description: MDB Rear Y Velocity
Maximum Value: 28.3 at 4.4 Milliseconds
Minimum Value: 22.5 at 64.2 Milliseconds
SAE Filter Class: 180
Date of Test: 12/22/00
Curve Number: IN1-057

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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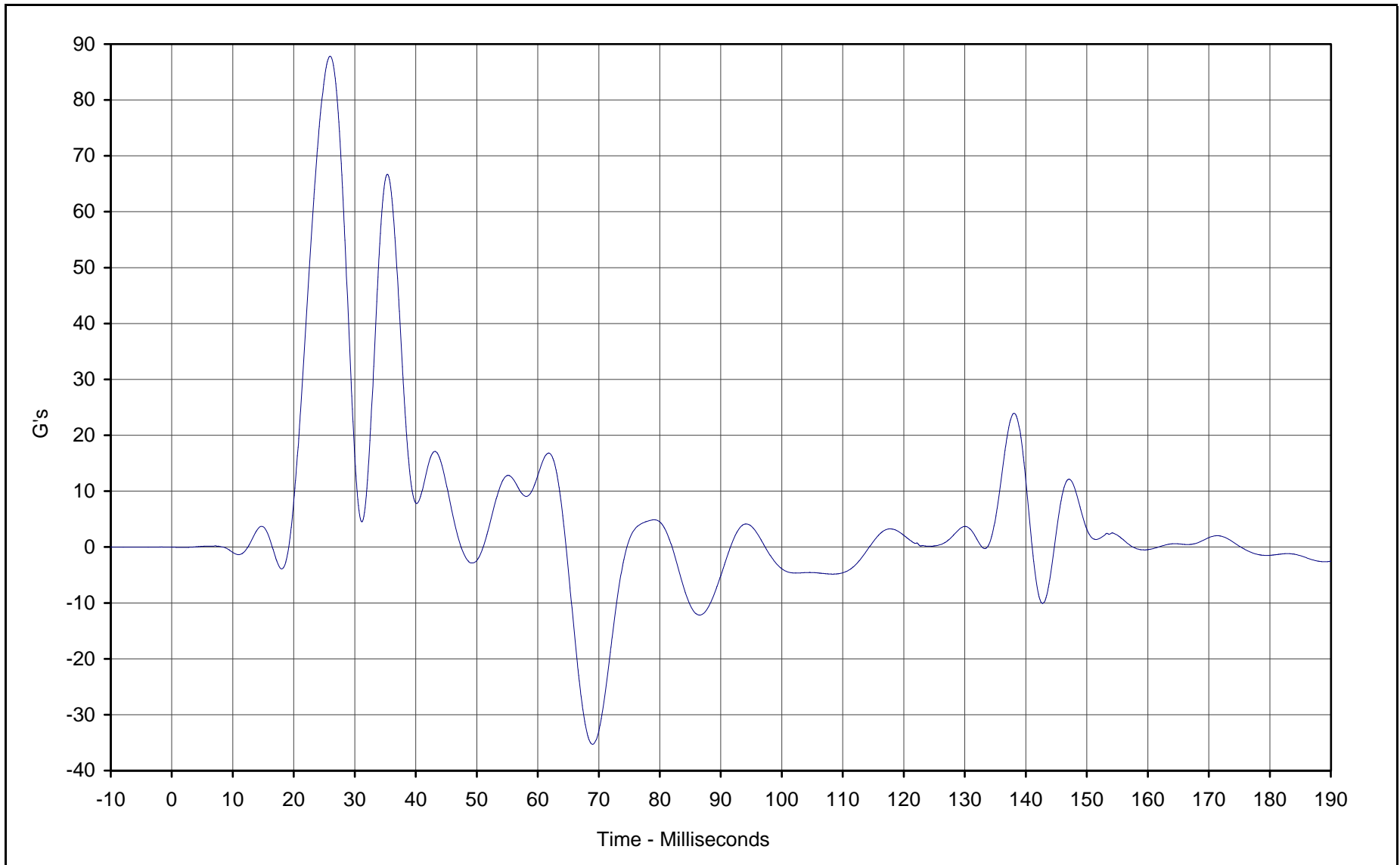
Curve Description: MDB Right Bumper Contact
Maximum Value: 101.2 at 72.6 Milliseconds
Crossing Point: 50% at -0.7 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/22/00
Curve Number: FIL-058

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-119

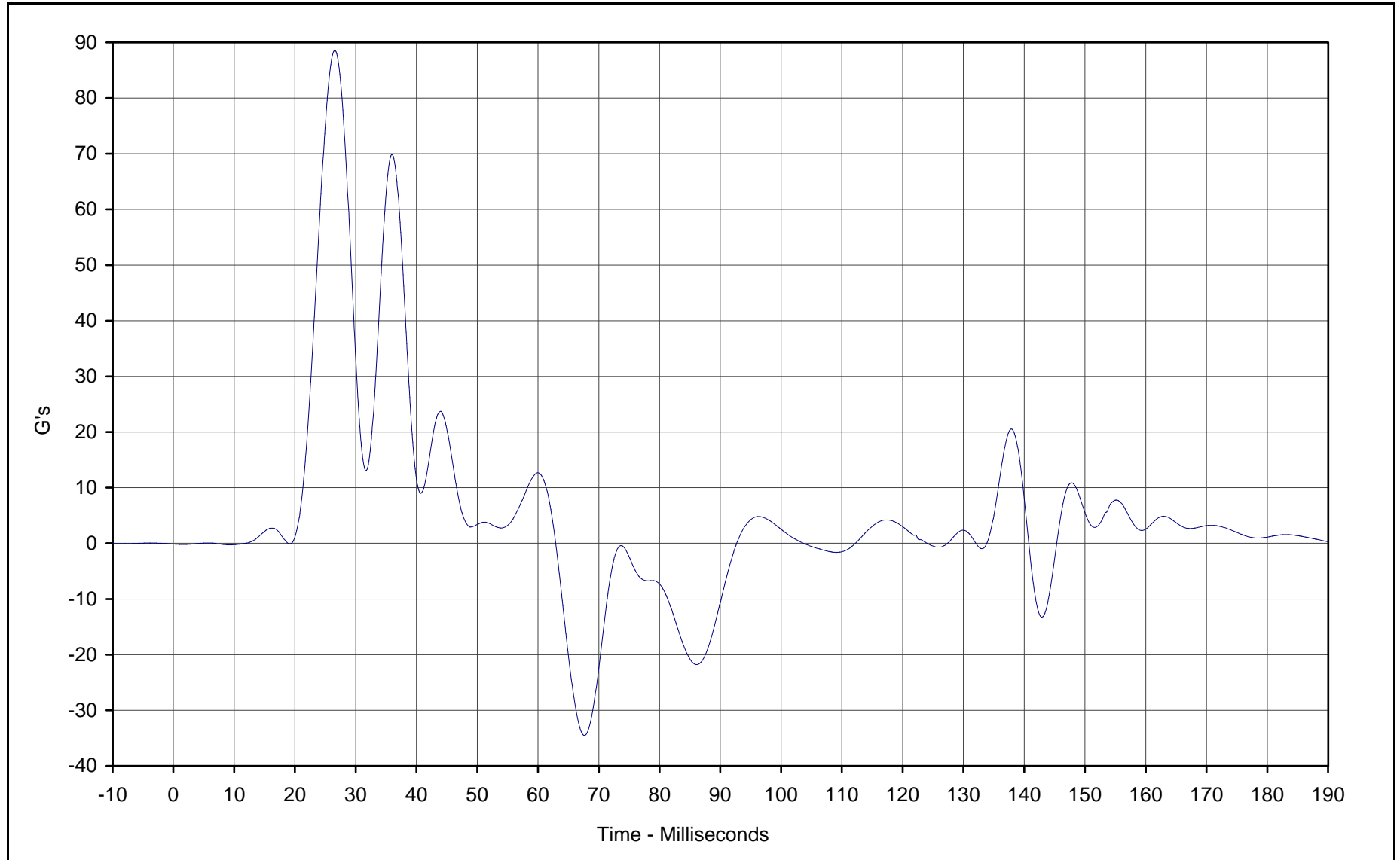


Curve Description: Driver Upper Rib Primary Y
Maximum Value: 87.8 at 25.9 Milliseconds
Minimum Value: -35.3 at 69.0 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-004

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Driver Lower Rib Primary Y

Maximum Value: 88.6 at 26.6 Milliseconds

Minimum Value: -34.5 at 67.6 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 12/22/00

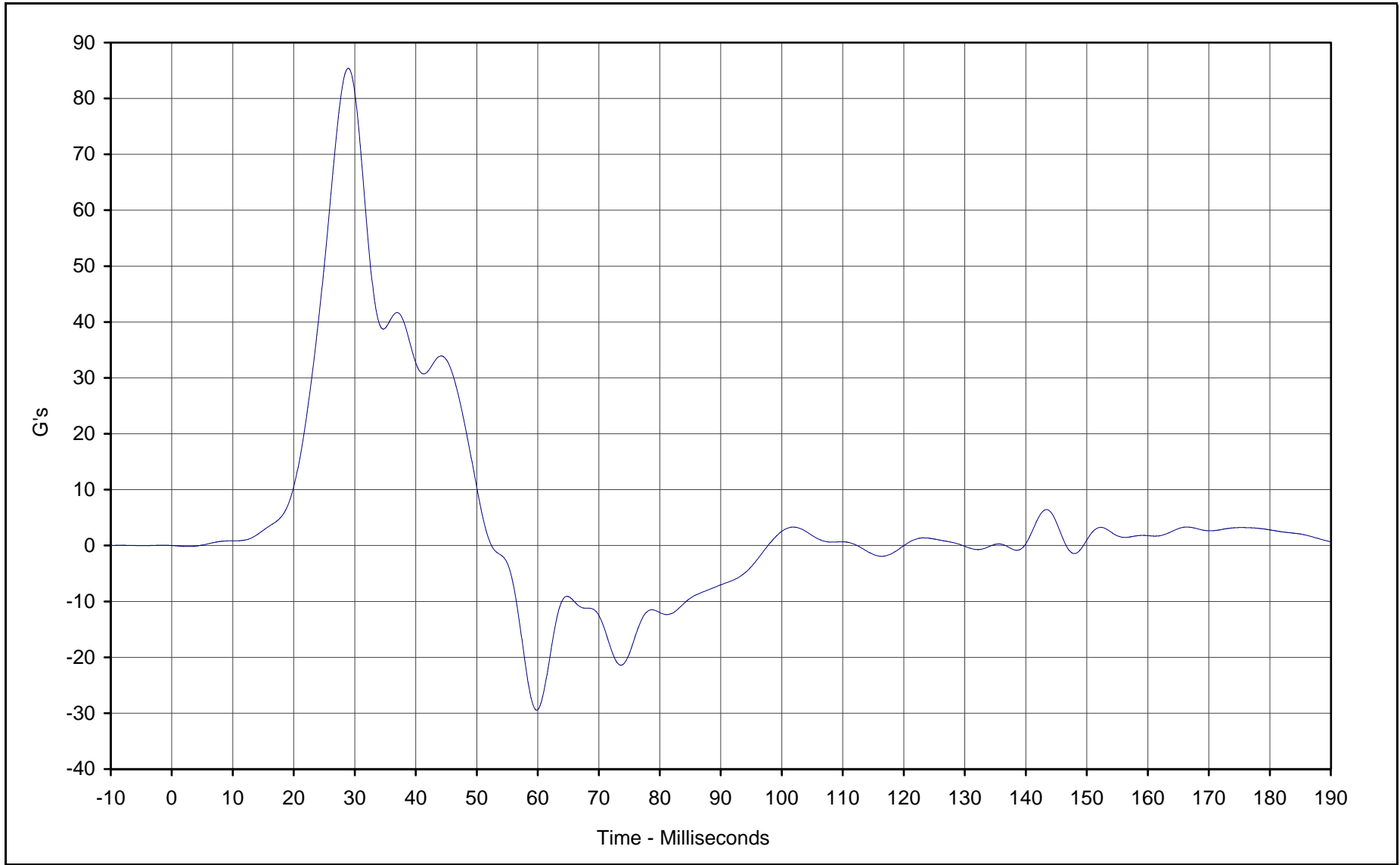
Curve Number: FIR-005

Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



B-121



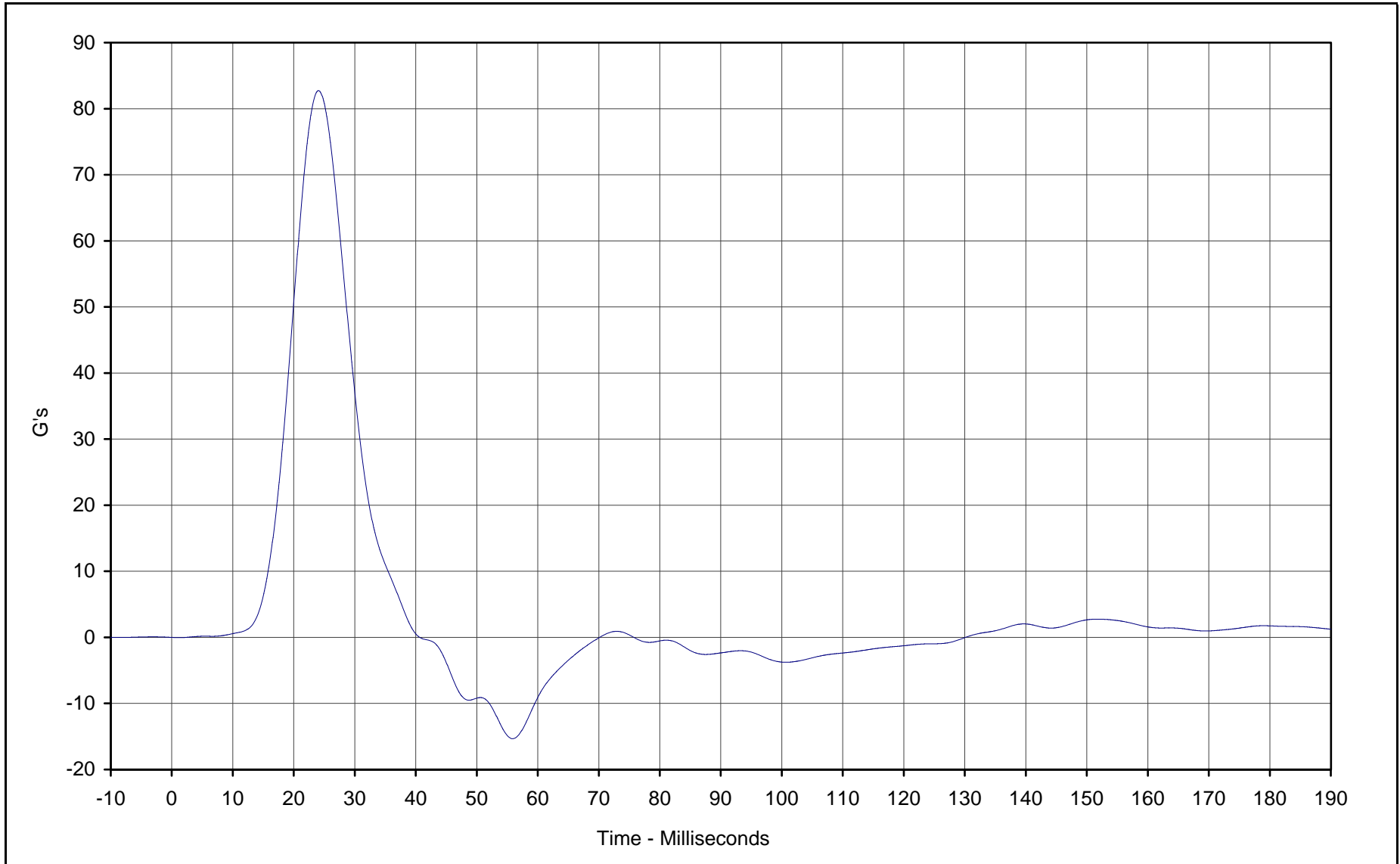
Curve Description: Driver Lower Spine Primary Y
Maximum Value: 85.4 at 28.9 Milliseconds
Minimum Value: -29.5 at 59.8 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-006

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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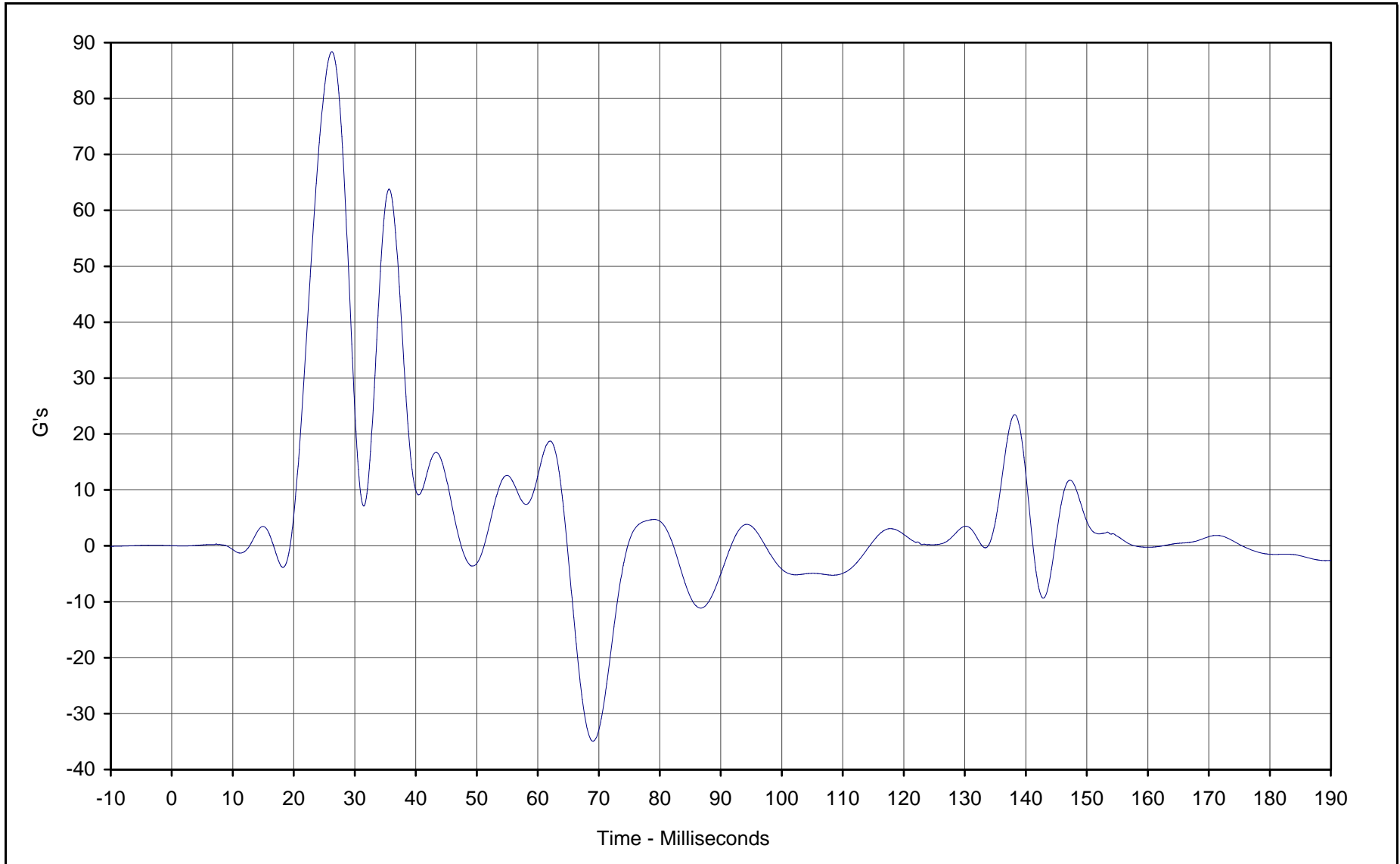
Curve Description: Driver Pelvis Primary Y
Maximum Value: 82.7 at 24.1 Milliseconds
Minimum Value: -15.3 at 55.9 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-007

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-123



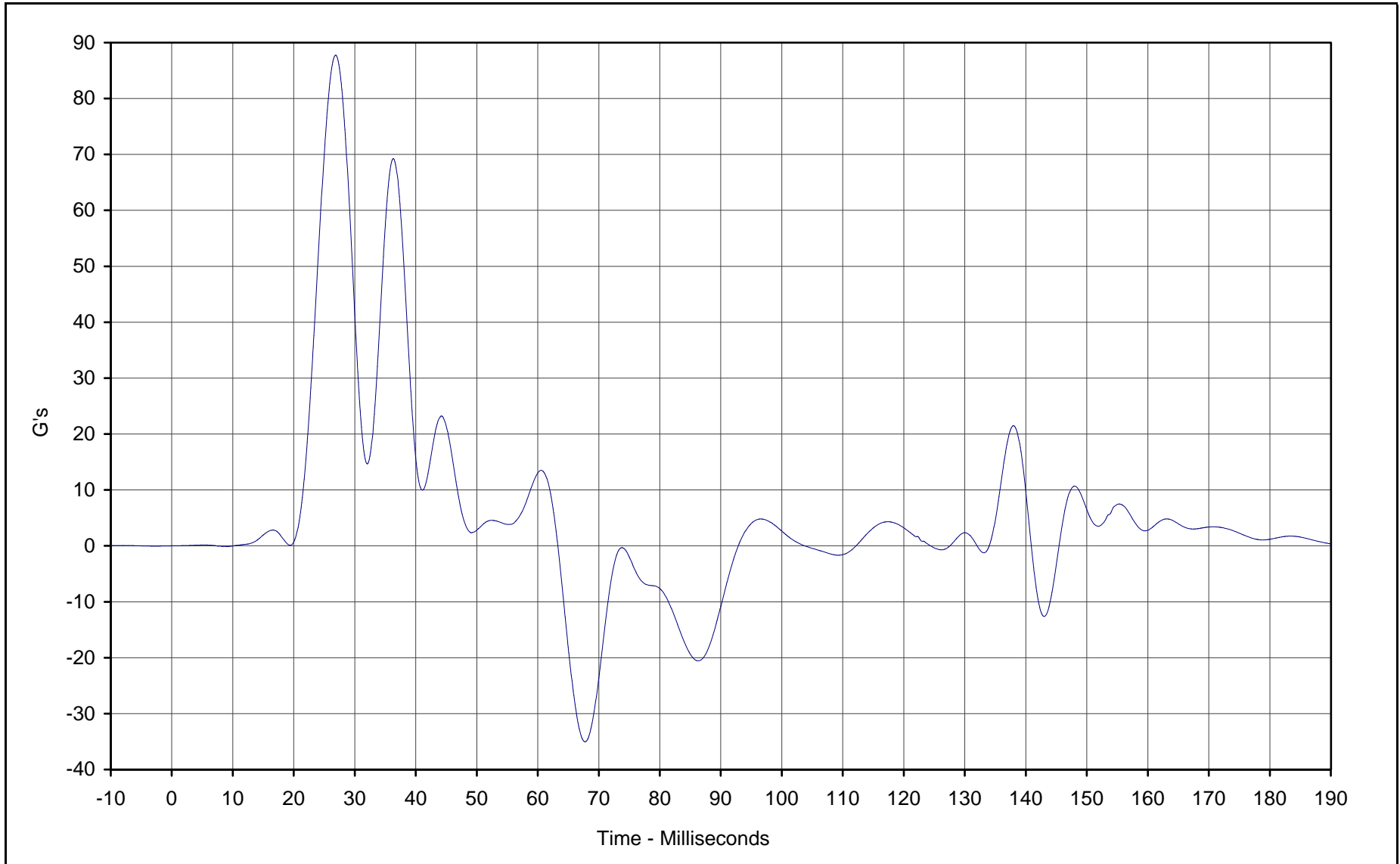
Curve Description: Driver Upper Rib Redundant Y
Maximum Value: 88.4 at 26.2 Milliseconds
Minimum Value: -34.9 at 69.1 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-008

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-124



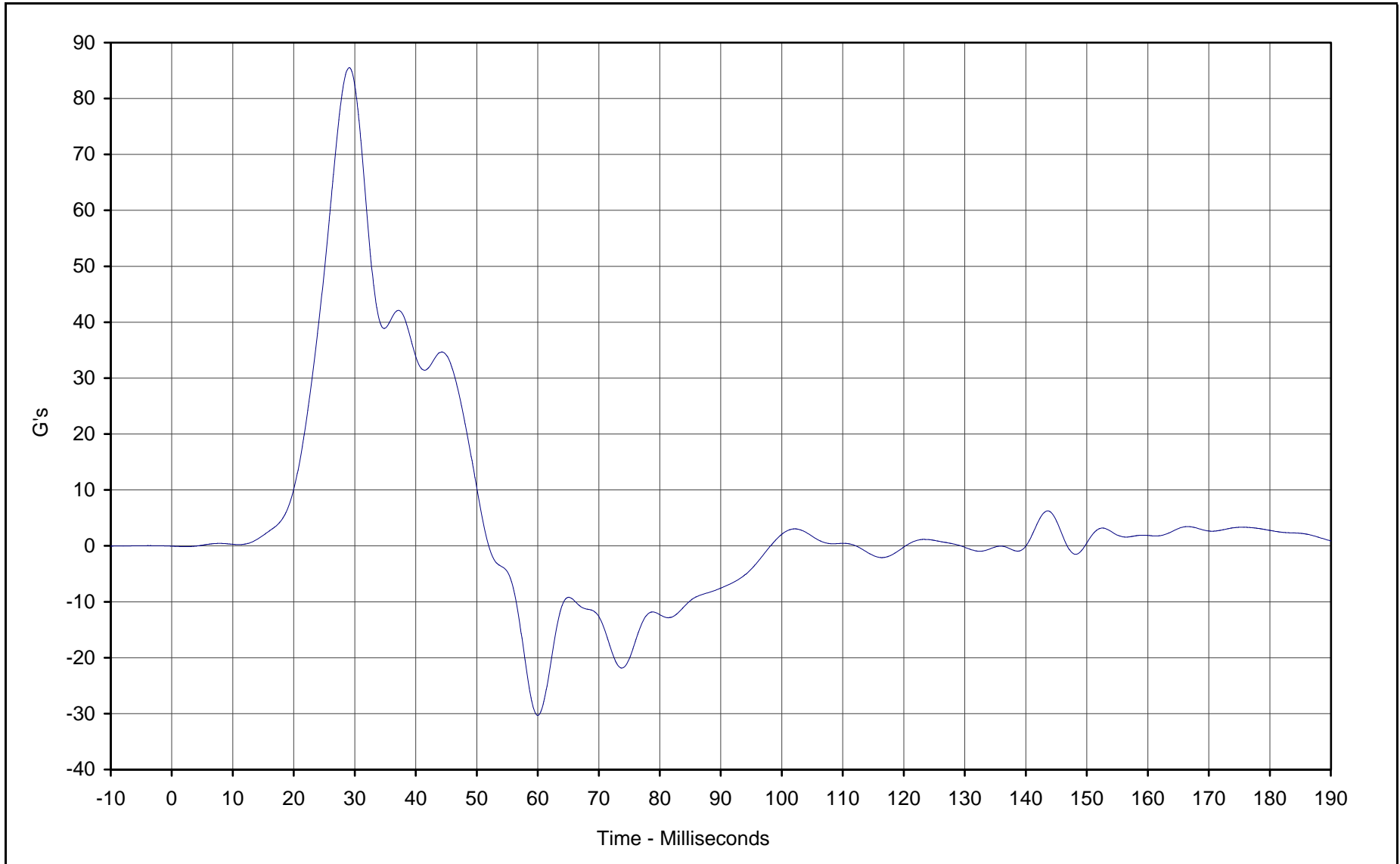
Curve Description: Driver Lower Rib Redundant Y
Maximum Value: 87.7 at 26.9 Milliseconds
Minimum Value: -35.0 at 67.8 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-009

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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Curve Description: Driver Lower Spine Redundant Y

Maximum Value: 85.5 at 29.1 Milliseconds

Minimum Value: -30.3 at 60.0 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 12/22/00

Curve Number: FIR-010

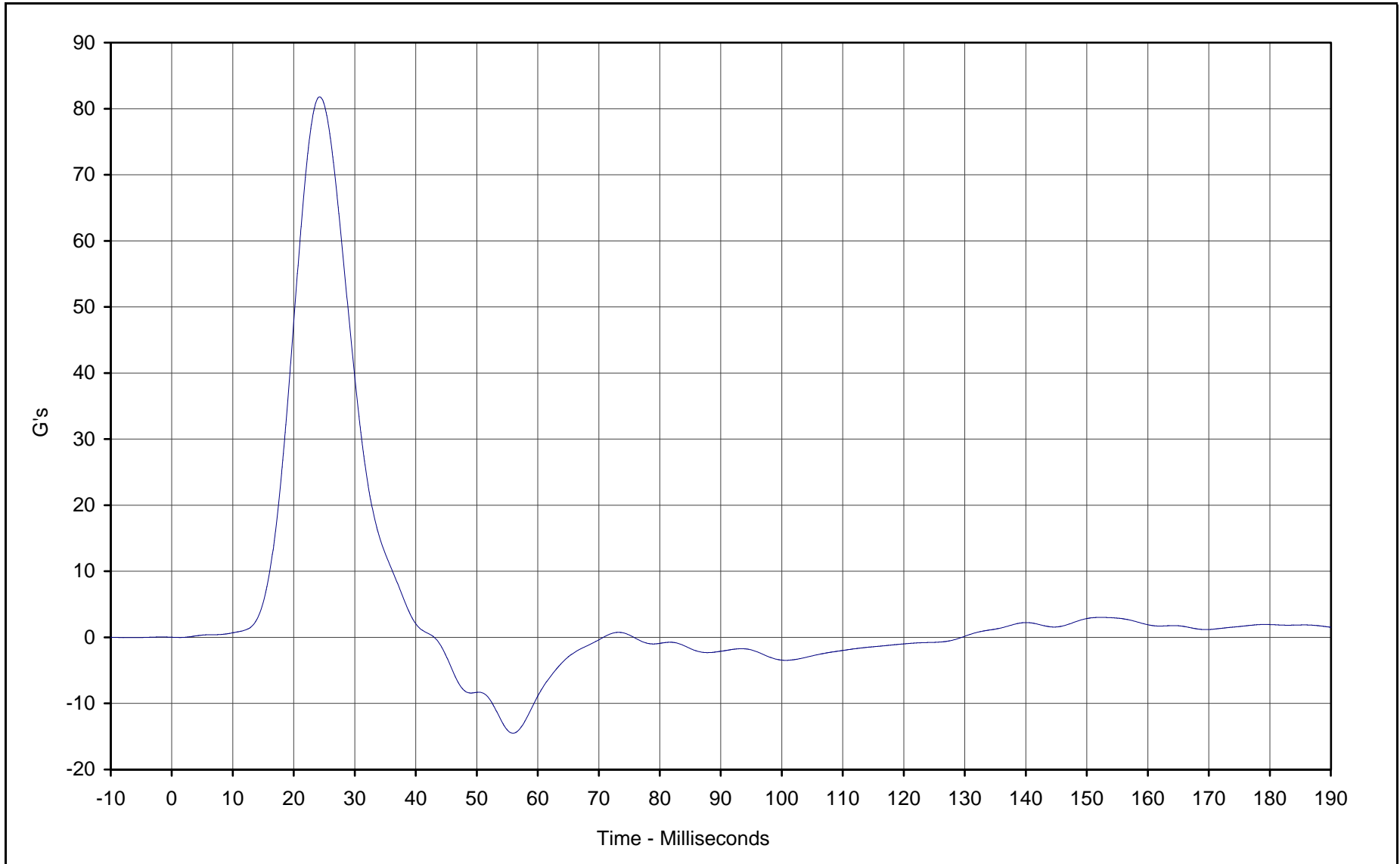
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-126



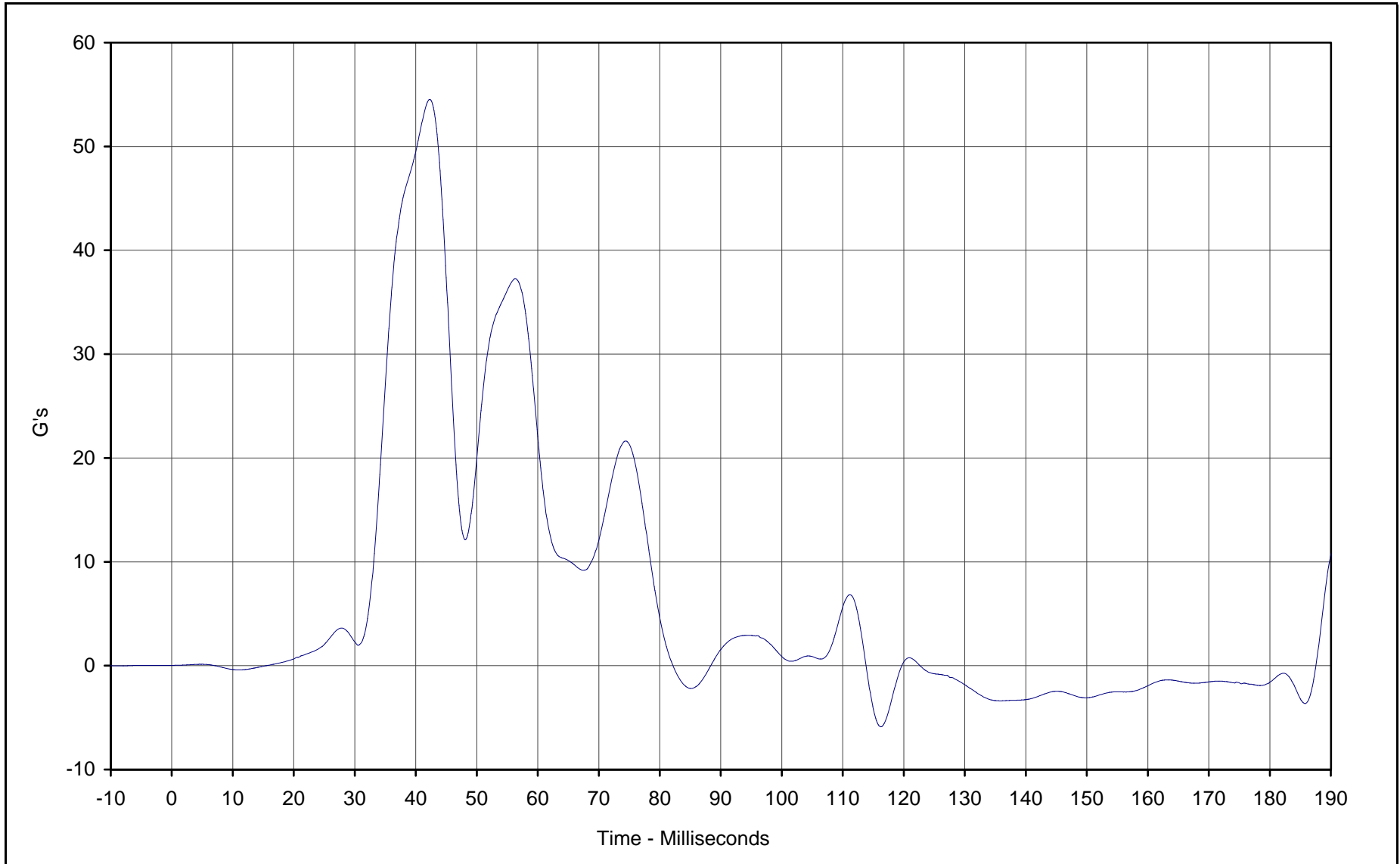
Curve Description: Driver Pelvis Redundant Y
Maximum Value: 81.8 at 24.3 Milliseconds
Minimum Value: -14.5 at 55.9 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-011

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-127



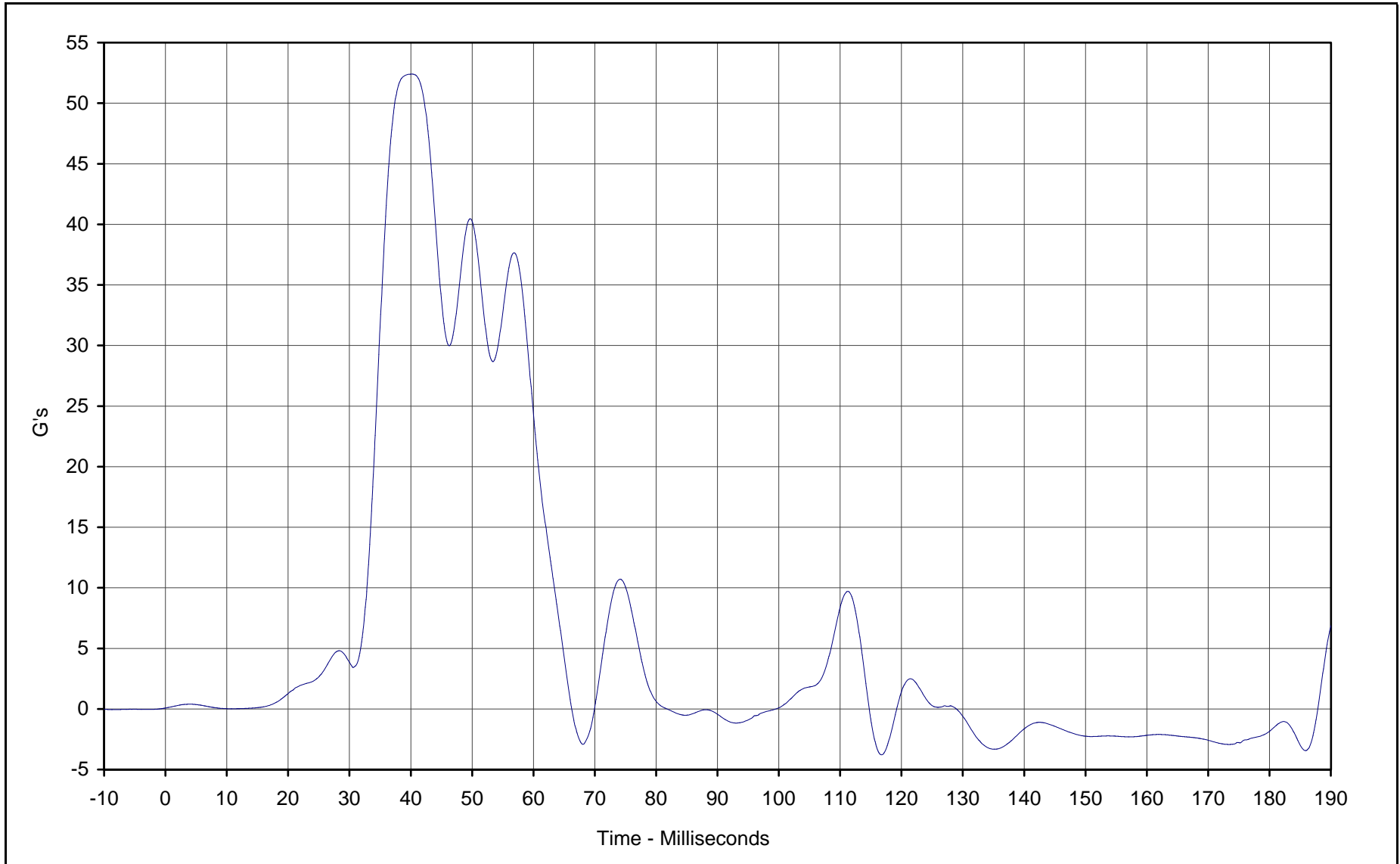
Curve Description: Pass. Upper Rib Primary Y
Maximum Value: 54.5 at 42.3 Milliseconds
Minimum Value: -5.9 at 116.2 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-017

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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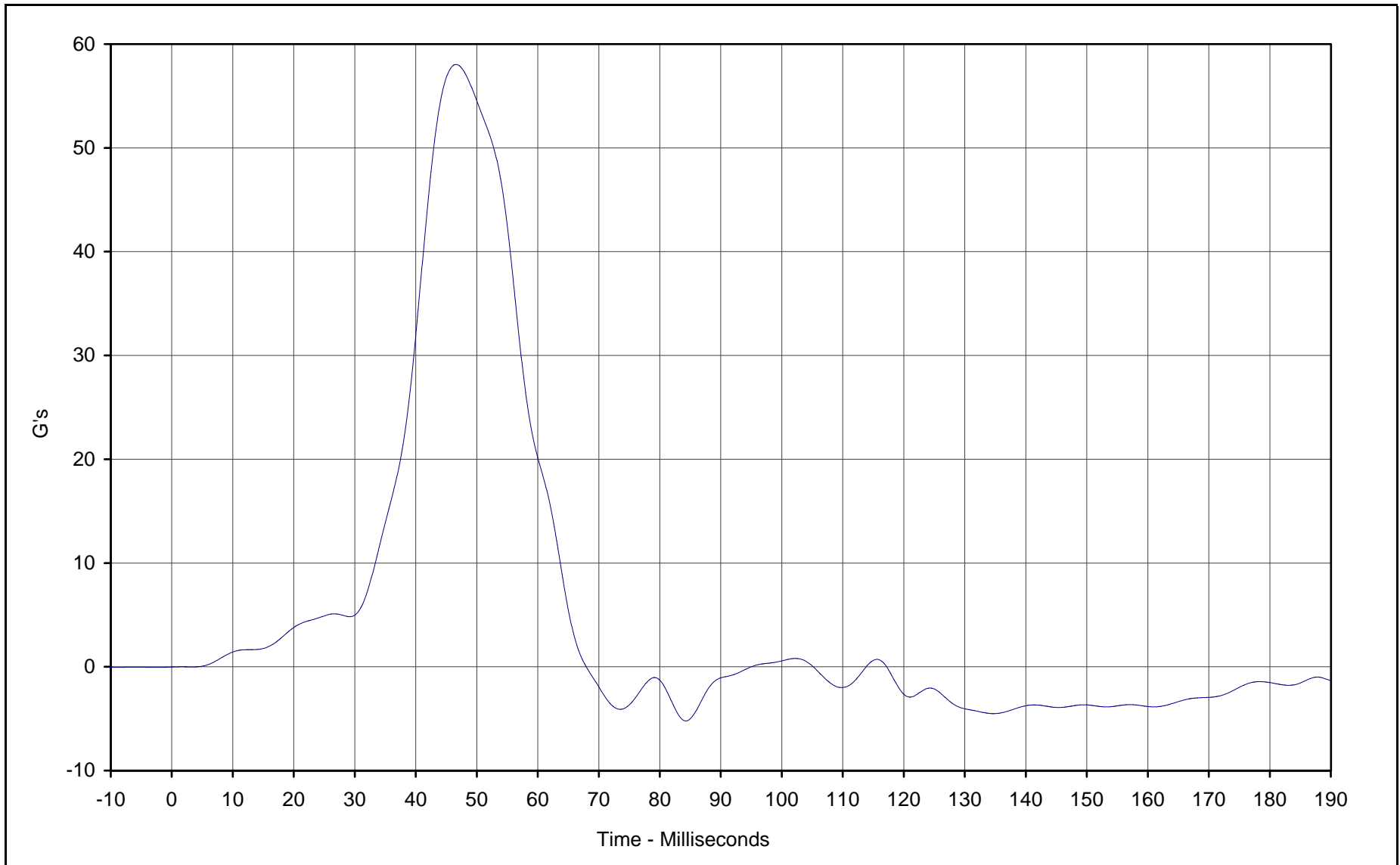
Curve Description: Pass. Lower Rib Primary Y
Maximum Value: 52.4 at 40.2 Milliseconds
Minimum Value: -3.8 at 116.7 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-018

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-129



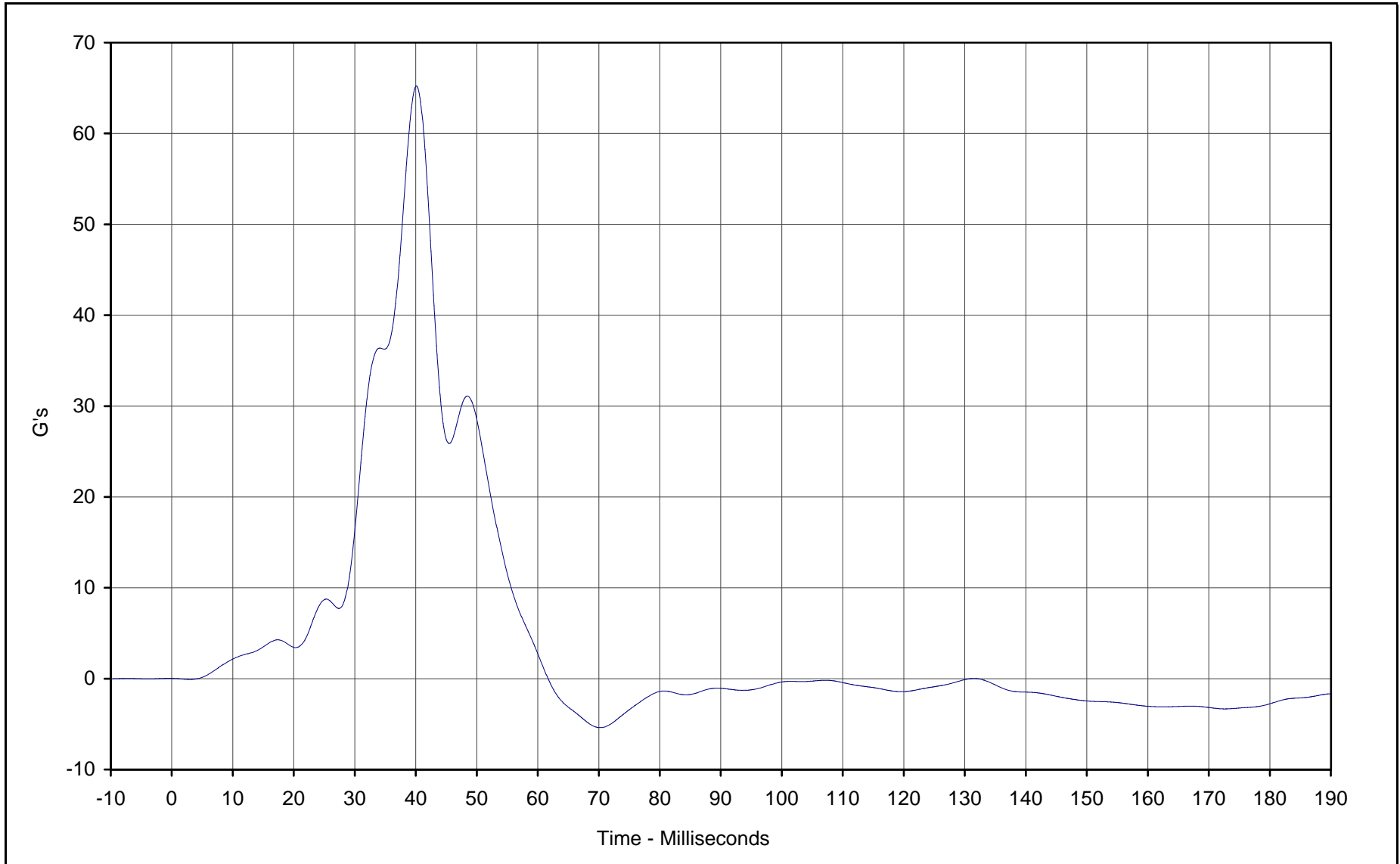
Curve Description: Pass. Lower Spine Primary Y
Maximum Value: 58.0 at 46.5 Milliseconds
Minimum Value: -5.2 at 84.3 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-019

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-130



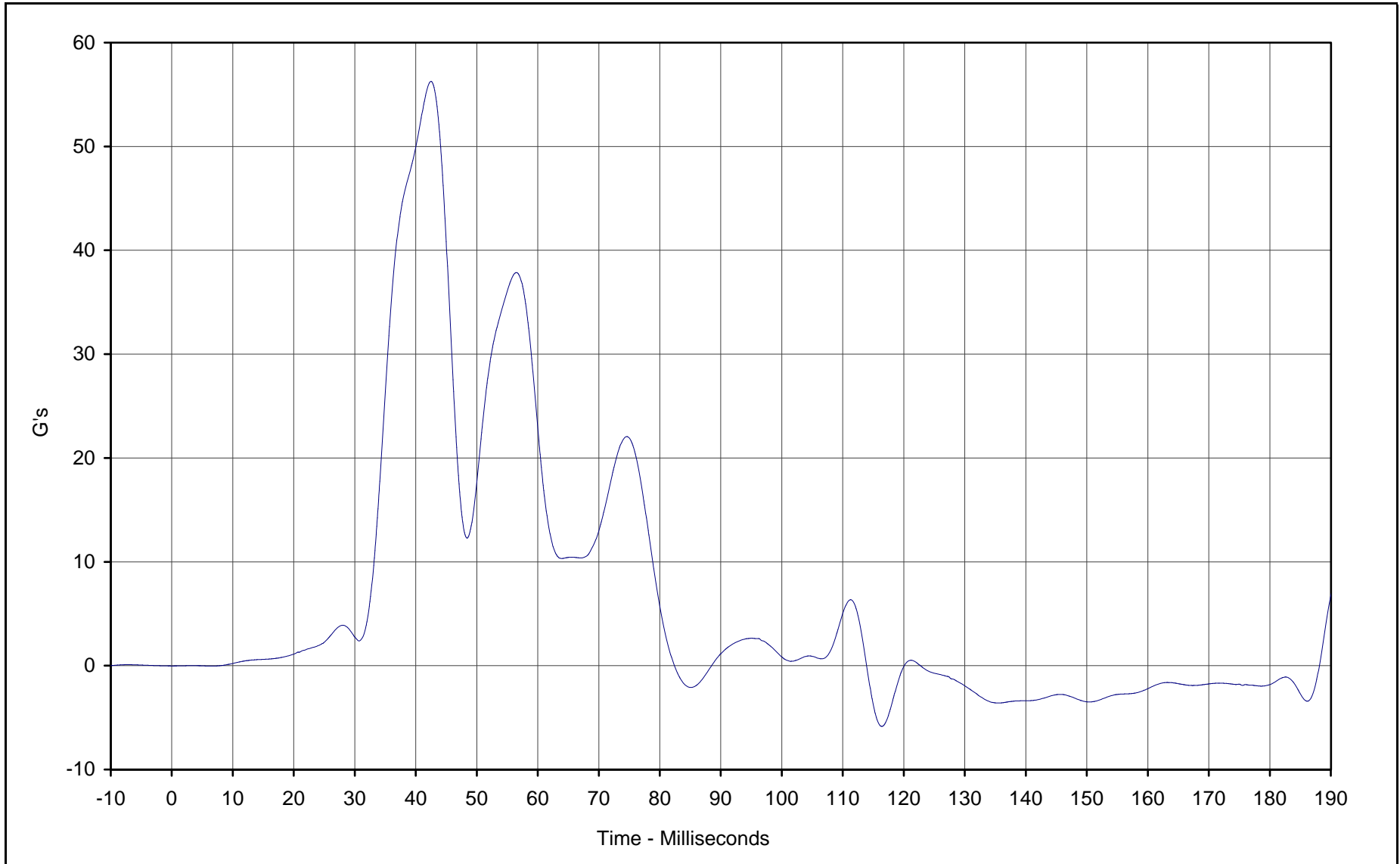
Curve Description: Pass. Pelvis Primary Y
Maximum Value: 65.2 at 40.1 Milliseconds
Minimum Value: -5.4 at 70.3 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-020

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-131



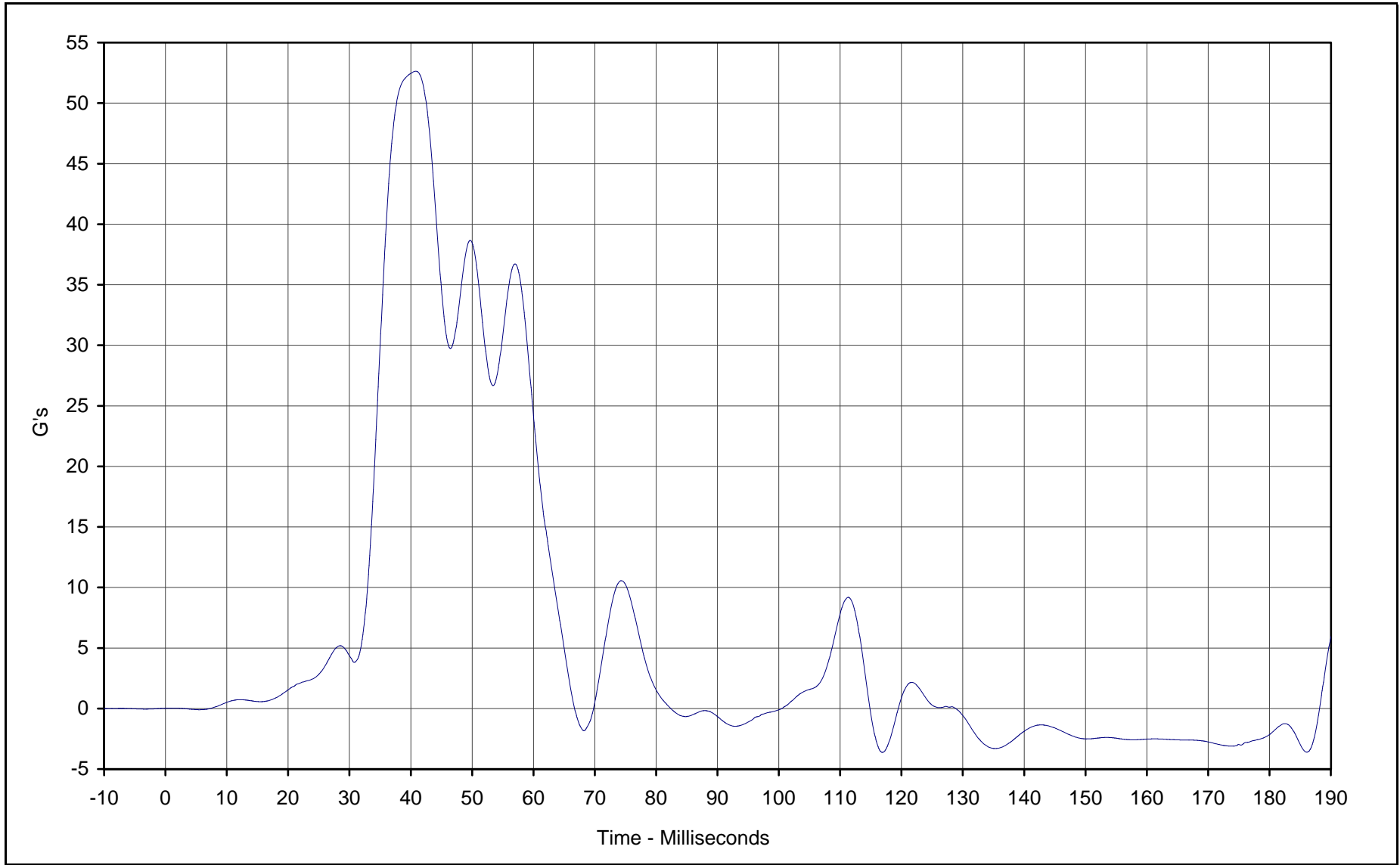
Curve Description: Pass. Upper Rib Redundant Y
Maximum Value: 56.3 at 42.5 Milliseconds
Minimum Value: -5.8 at 116.4 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-021

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-132



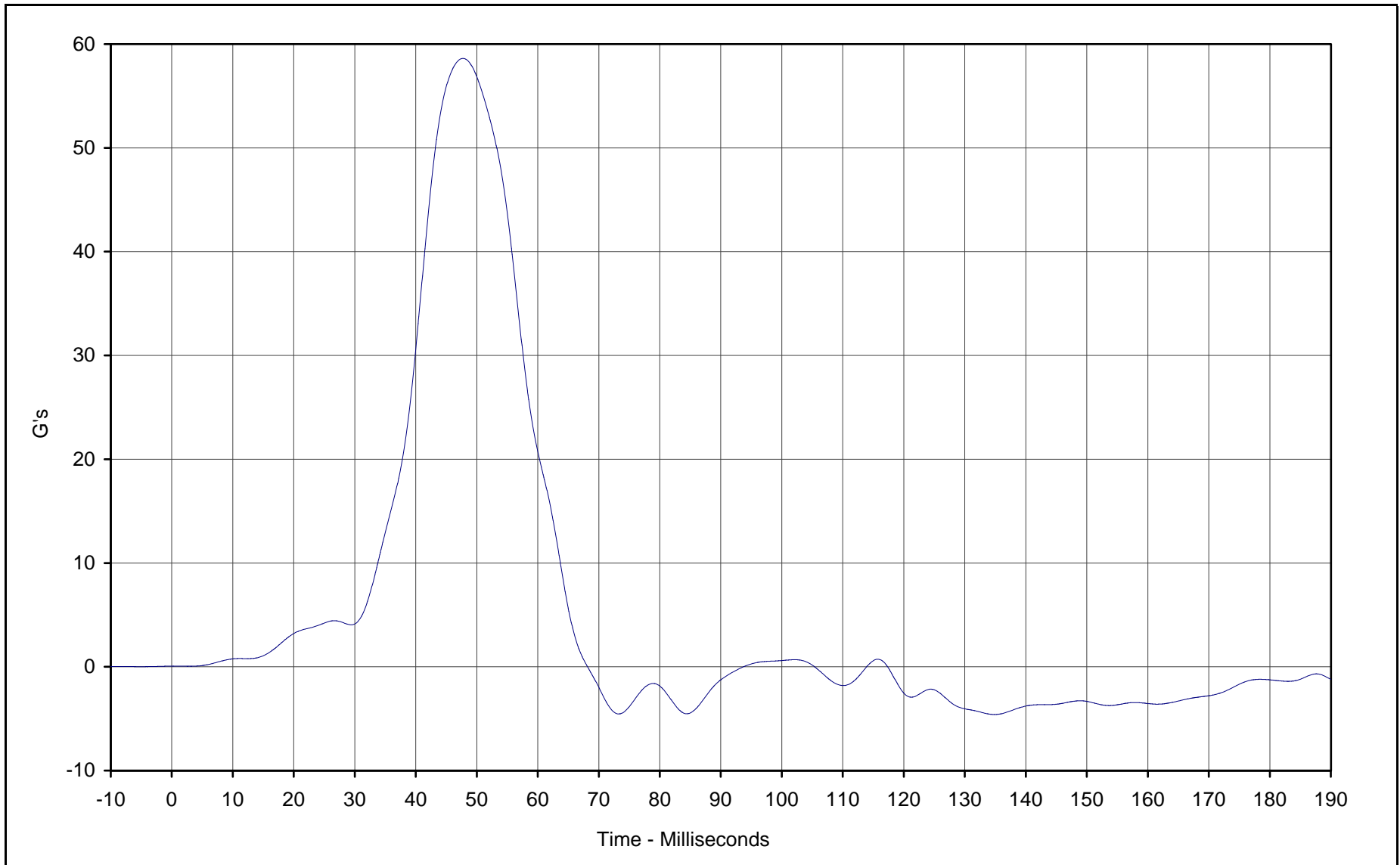
Curve Description: Pass. Lower Rib Redundant Y
Maximum Value: 52.6 at 40.8 Milliseconds
Minimum Value: -3.6 at 116.9 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-022

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-133



Curve Description: Pass. Lower Spine Redundant Y

Maximum Value: 58.6 at 47.7 Milliseconds

Minimum Value: -4.6 at 134.8 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 12/22/00

Curve Number: FIR-023

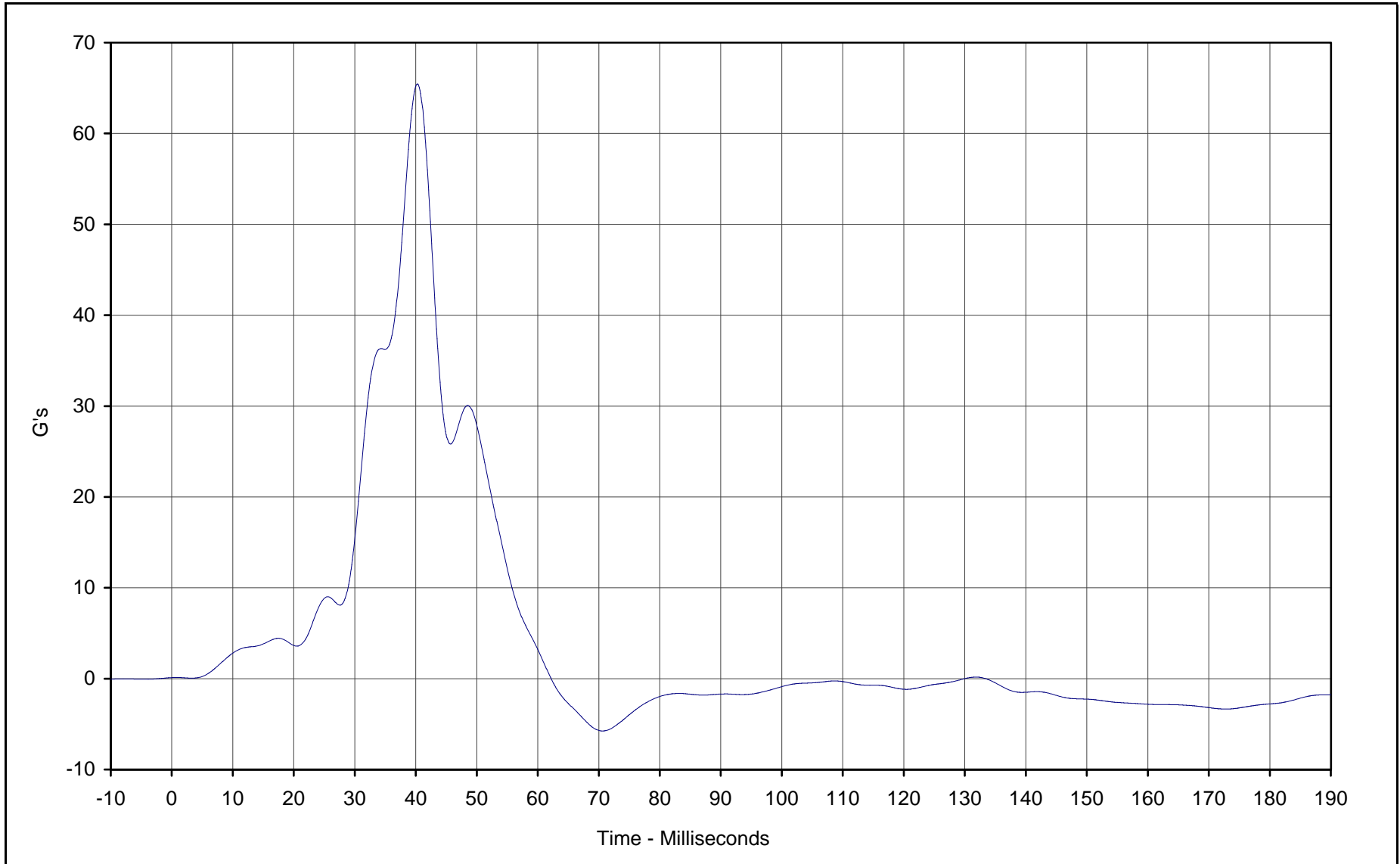
Test Program: 55/28 km/h Side Impact NCAP No.: M10312

Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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B-134



Curve Description: Pass. Pelvis Redundant Y
Maximum Value: 65.5 at 40.3 Milliseconds
Minimum Value: -5.8 at 70.7 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/22/00
Curve Number: FIR-024

Test Program: 55/28 km/h Side Impact NCAP No.: M10312
Test Vehicle: 2001 Dodge Stratus SE 2 Door Coupe



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APPENDIX C
SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA

APPENDIX C
PRE-TEST SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA



Performance Verification Data Side Impact Dummy (SID) External Dimensions

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: N/A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory temperature	°C	20.4 to 22.1	21.1	Pass
Laboratory relative humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	905	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	514	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	510	Pass
KV- Knee Pivot From Floor	mm	490 to 505	503	Pass
HW- Hip Width	mm	356 to 391	360	Pass
Overall Test Results				Pass

Laboratory Technician

December 21, 2000

Test Date

Approved By

Date



**Performance Verification Data
Side Impact Dummy (SID)
Thorax Lateral Impact**

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: TI12G

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.24	Pass
Left Upper Rib Acceleration	G's	37.0 to 46.0	39.9	Pass
Left Lower Rib Acceleration	G's	37.0 to 46.0	37.8	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	18.5	Pass
Overall Test Results				Pass

Laboratory Technician

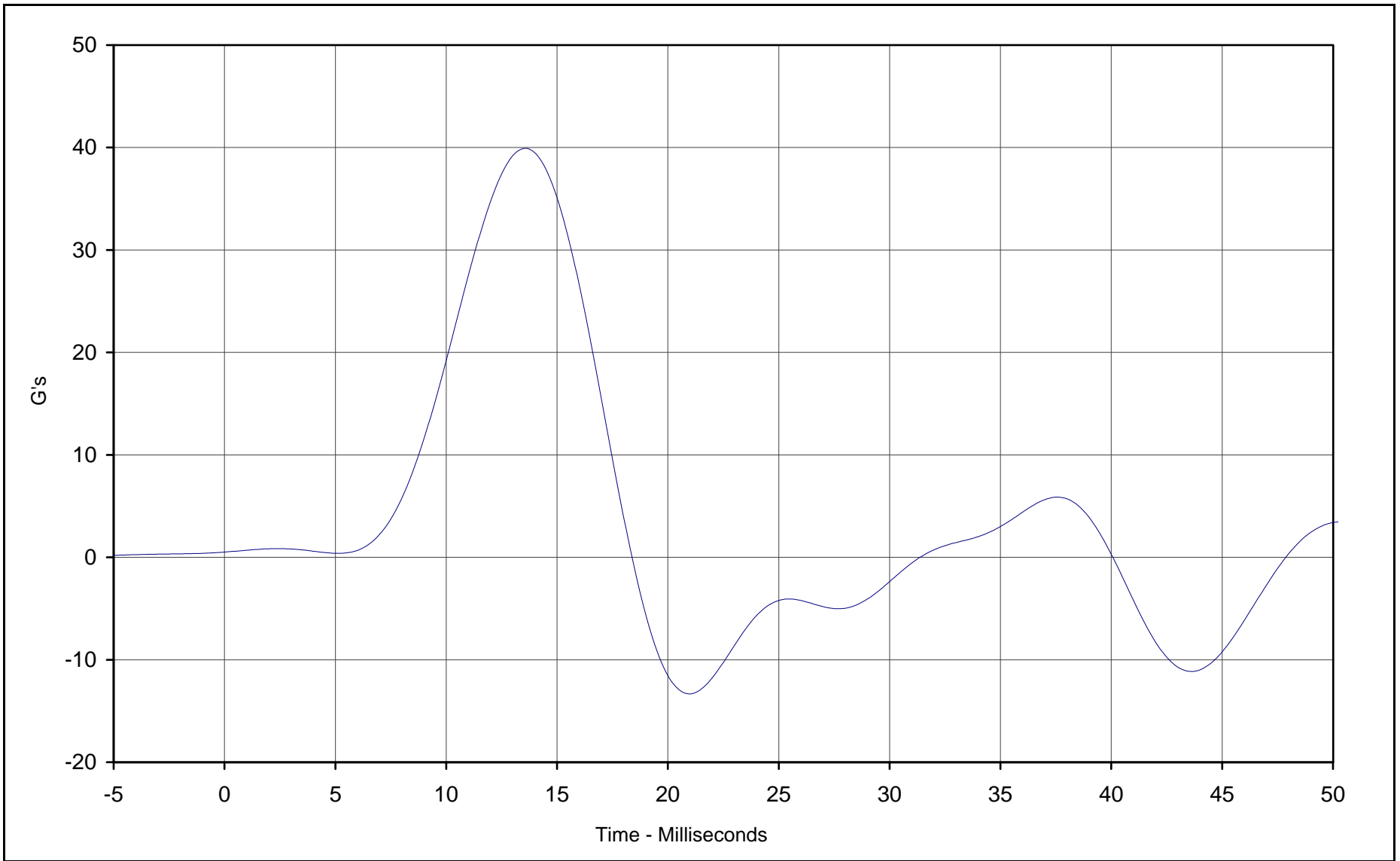
December 20, 2000

Test Date

Approved By

Date

C-3



Curve Description: Left Upper Rib Y Acceleration

Maximum Value: 39.9 at 13.6 Milliseconds

Minimum Value: -13.3 at 21.0 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 12/20/00

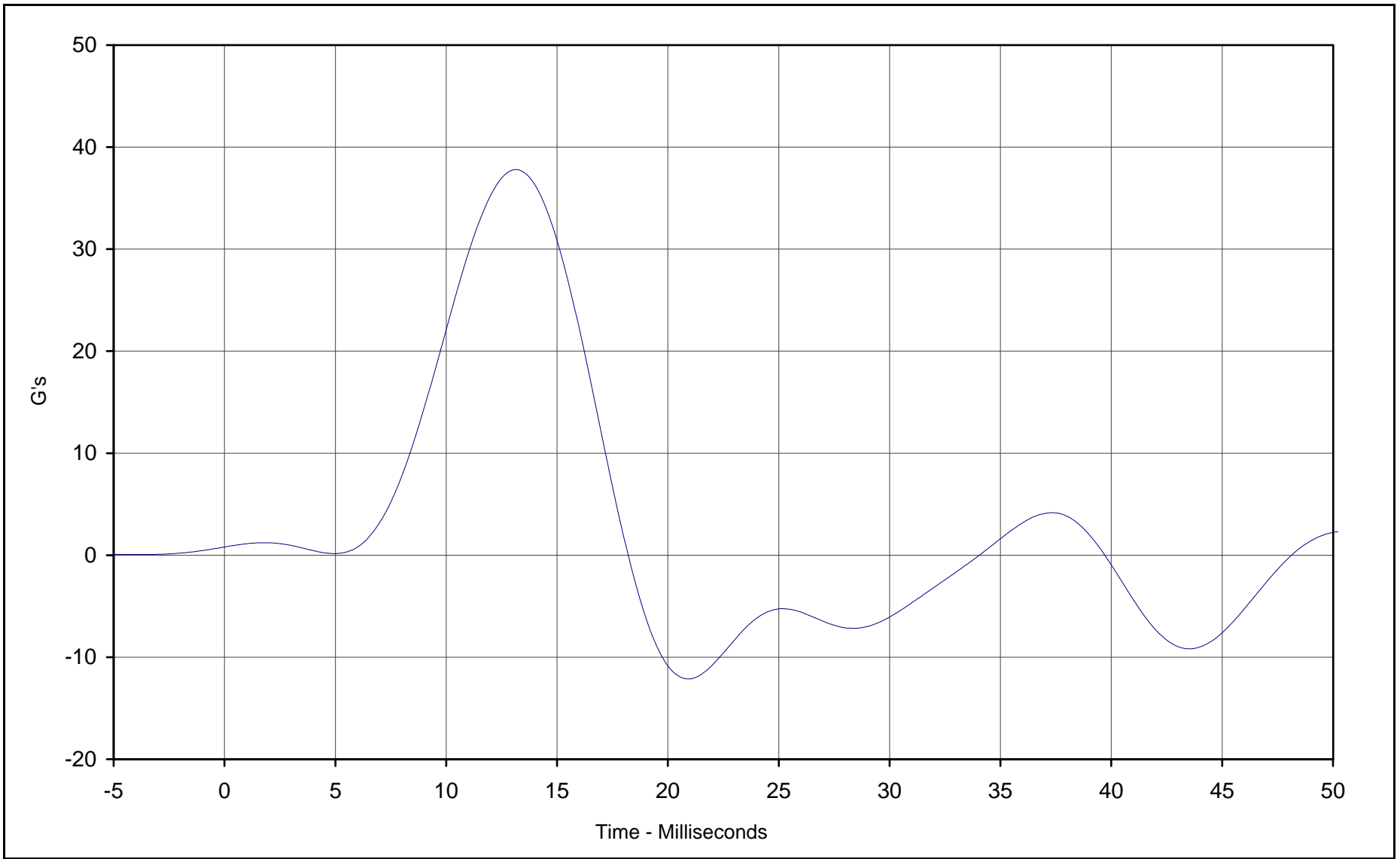
Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 274 Test I.D.: TI12G



KAR21003-08

C-4



Curve Description: Left Lower Rib Y Acceleration

Maximum Value: 37.8 at 13.1 Milliseconds

Minimum Value: -12.1 at 20.9 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 12/20/00

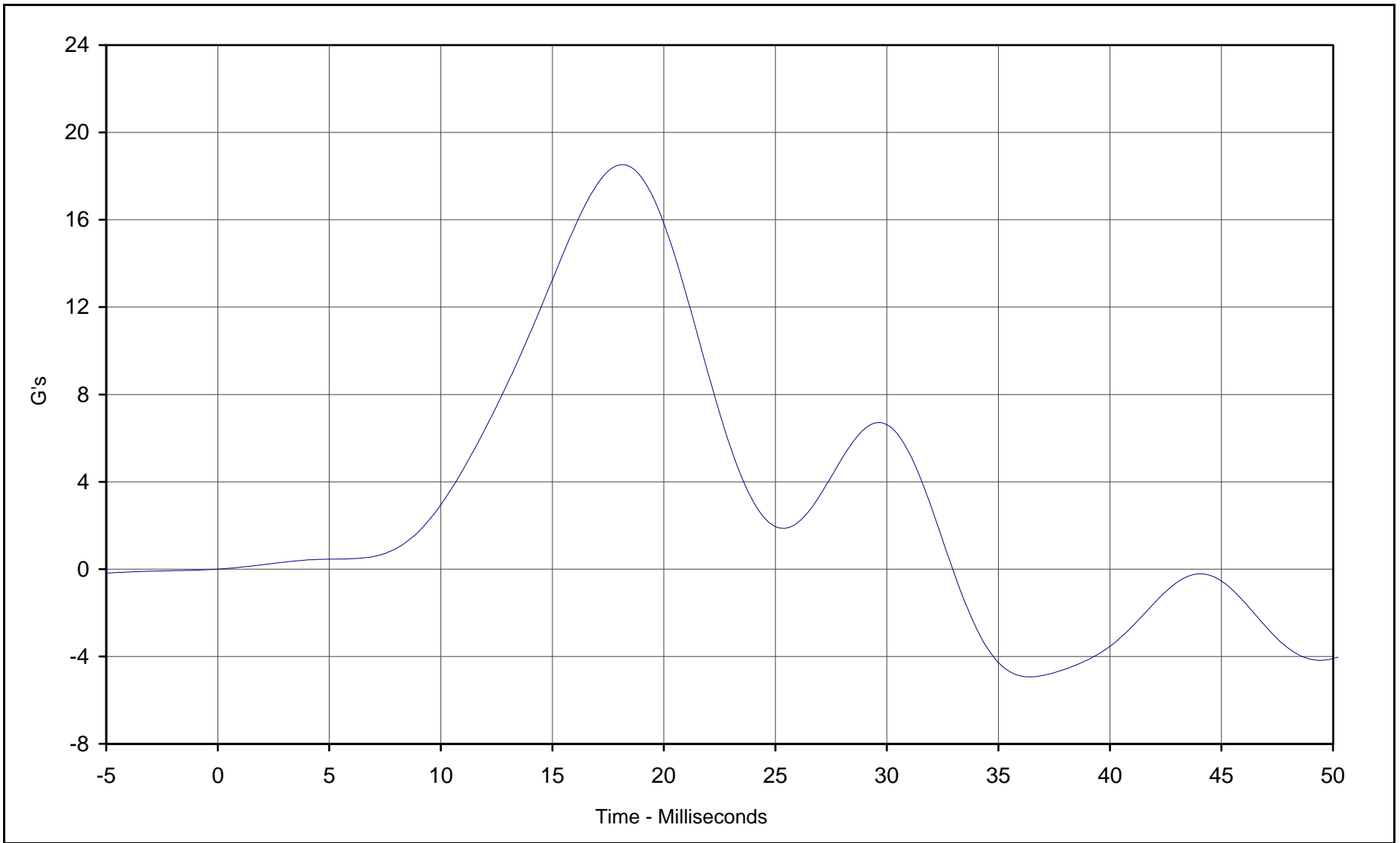
Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 274 Test I.D.: TI12G



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C-5



Curve Description: Lower Spine Y Acceleration
Maximum Value: 18.5 at 18.1 Milliseconds
Minimum Value: -4.9 at 36.4 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/20/00

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 274 Test I.D.: T112G



KAR21003-08



**Performance Verification Data
Side Impact Dummy (SID)
Left Side Pelvis Lateral Impact**

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: PI12G

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.24	Pass
Pelvis Acceleration	G's	40.0 to 60.0	41.0	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0 Msec.	6.6	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

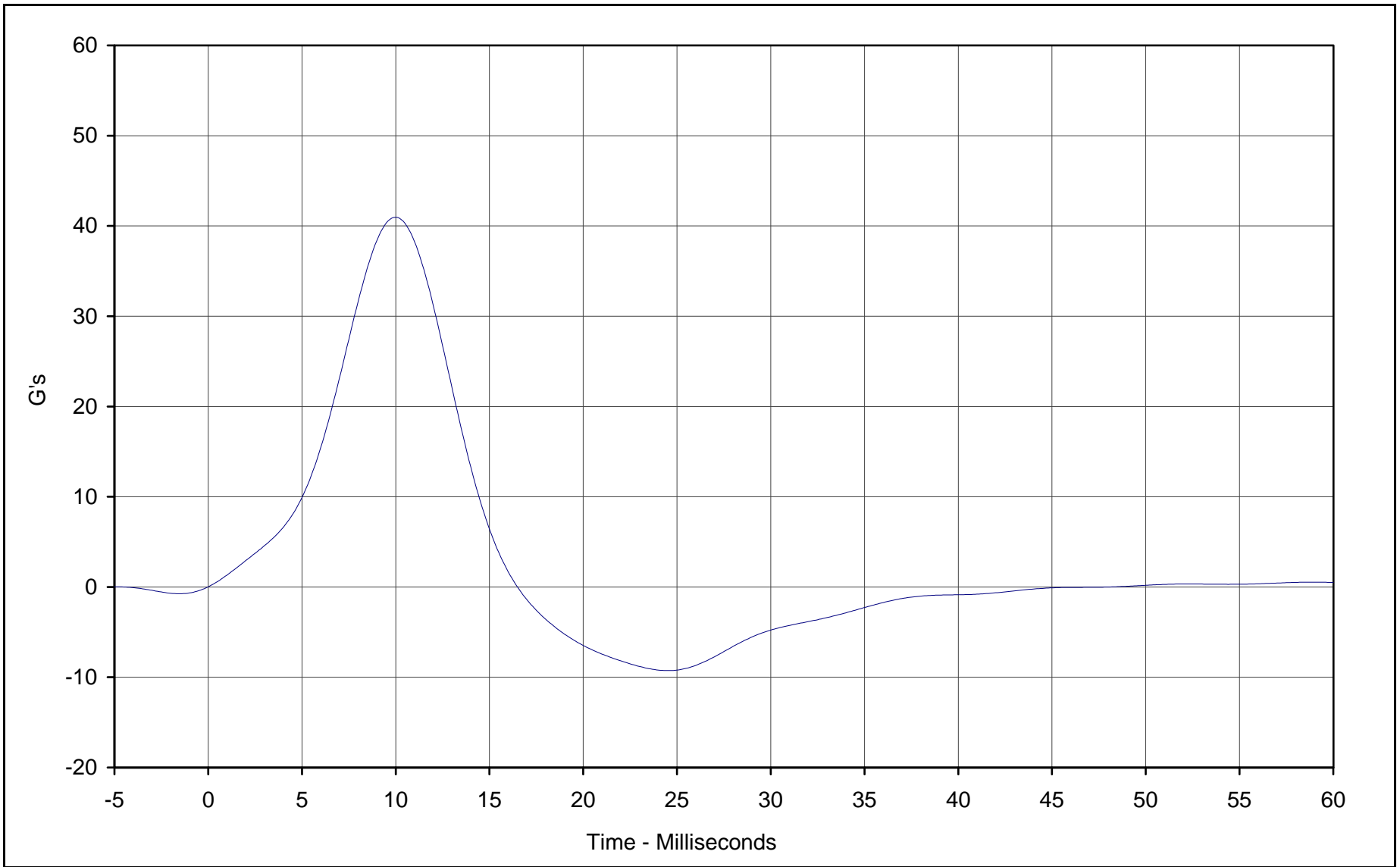
December 20, 2000

Test Date

Approved By

Date

C-7



Curve Description: Pelvis Y Axis Acceleration
Maximum Value: 41.0 at 10.0 Milliseconds
Minimum Value: -9.3 at 24.5 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/20/00

Test Program: SID Left Side Pelvis Lateral Impact
Test Information: SID S/N: 274 Test I.D.: PI12G

KAR21003-08





Performance Verification Data Side Impact Dummy (SID) Abdominal Compression Test

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: AB01C

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Force at 0.5 Inches of Displacement	Pounds	23.0 to 36.0	30.5	Pass
Force at 0.75 Inches of Displacement	Pounds	36.0 to 50.0	42.1	Pass
Force at 1.0 Inches of Displacement	Pounds	50.0 to 63.0	58.2	Pass
Force at 1.3 Inches of Displacement	Pounds	73.0 to 88.0	79.0	Pass
Overall Test Results				Pass

Laboratory Technician

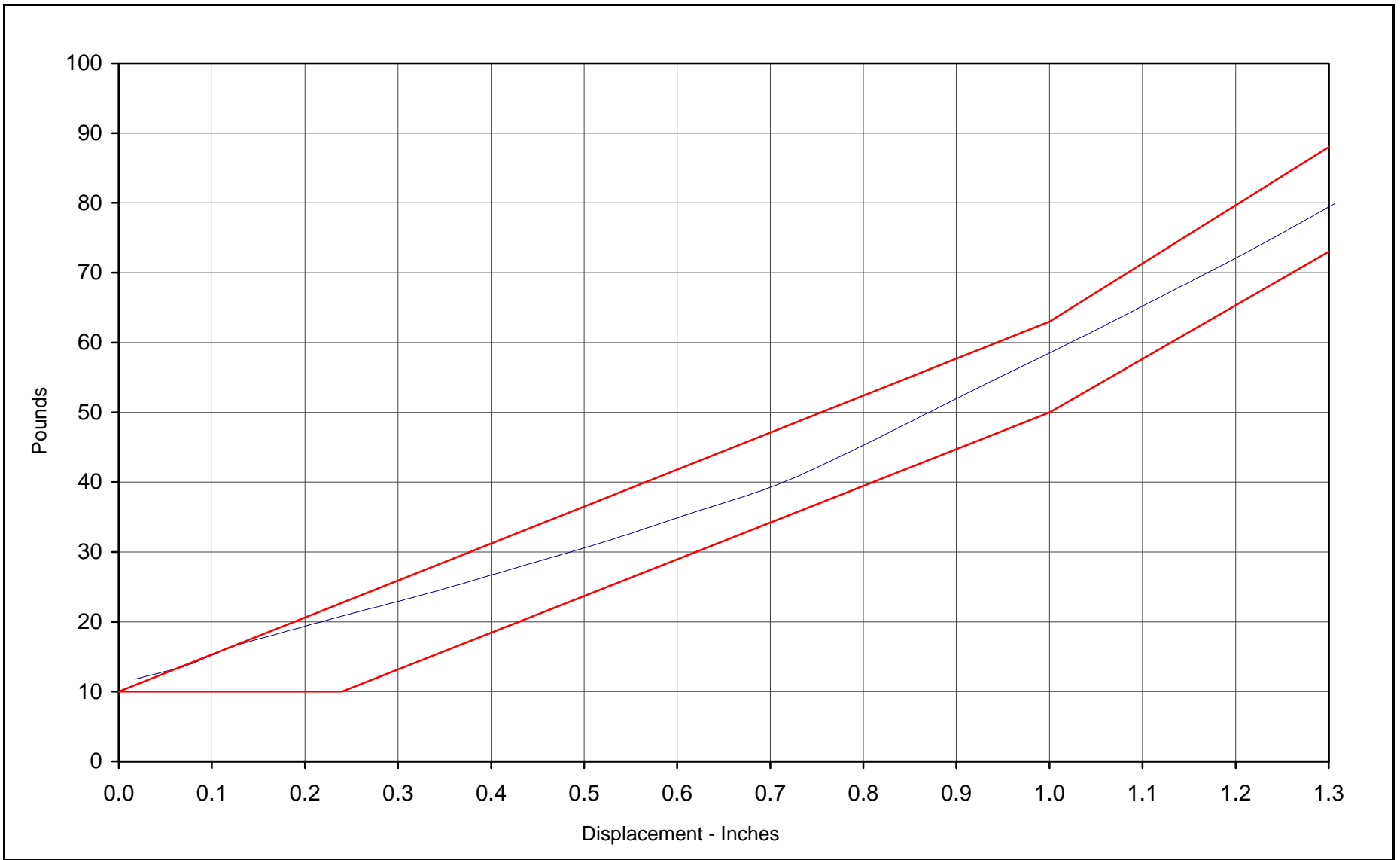
December 21, 2000

Test Date

Approved By

Date

C-9



Curve Description: Abdomen Force vs. Displacement

Test Program: SID Abdominal Compression

Force at 0.5 In.: 30.5 Pounds

Test Information: SID S/N: 274 Test I.D.: AB01C

Force at 0.75 In.: 42.1 Pounds

Force at 1.0 In.: 58.2 Pounds

Force at 1.3 In.: 79.0 Pounds

Date of Test: 12/21/00



KARR21003-08



Performance Verification Data Side Impact Dummy (SID) Head Drop Calibration

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: HD12M

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	69	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	210.0 to 260.0	229.5	Pass
Peak Lateral Acceleration	G's	≤10.0	7.2	Pass
Time Above 100 G's	Msec.	0.9 to 1.5	1.0	Pass
Is Resultant Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

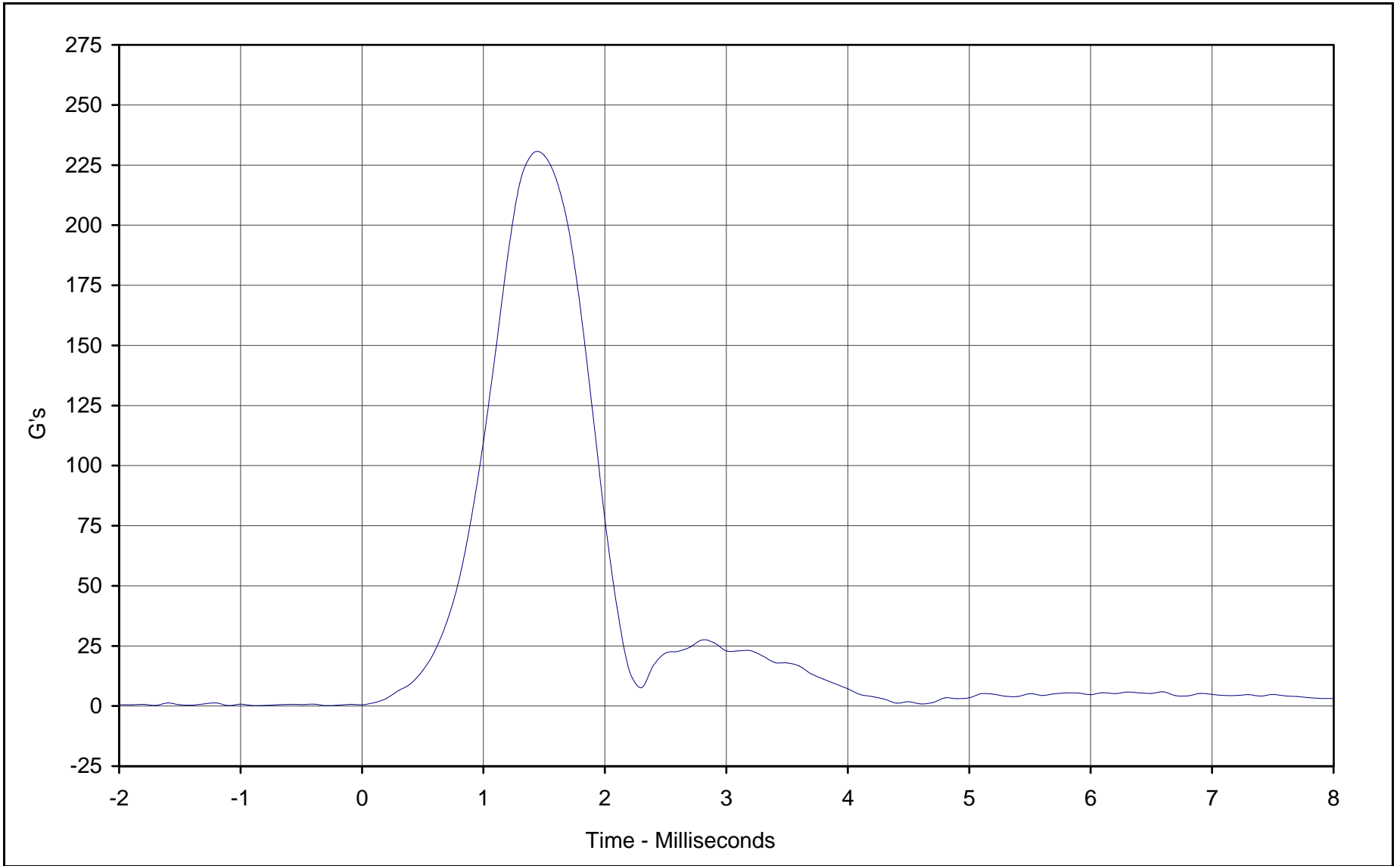
December 21, 2000

Test Date

Approved By

Date

C-11



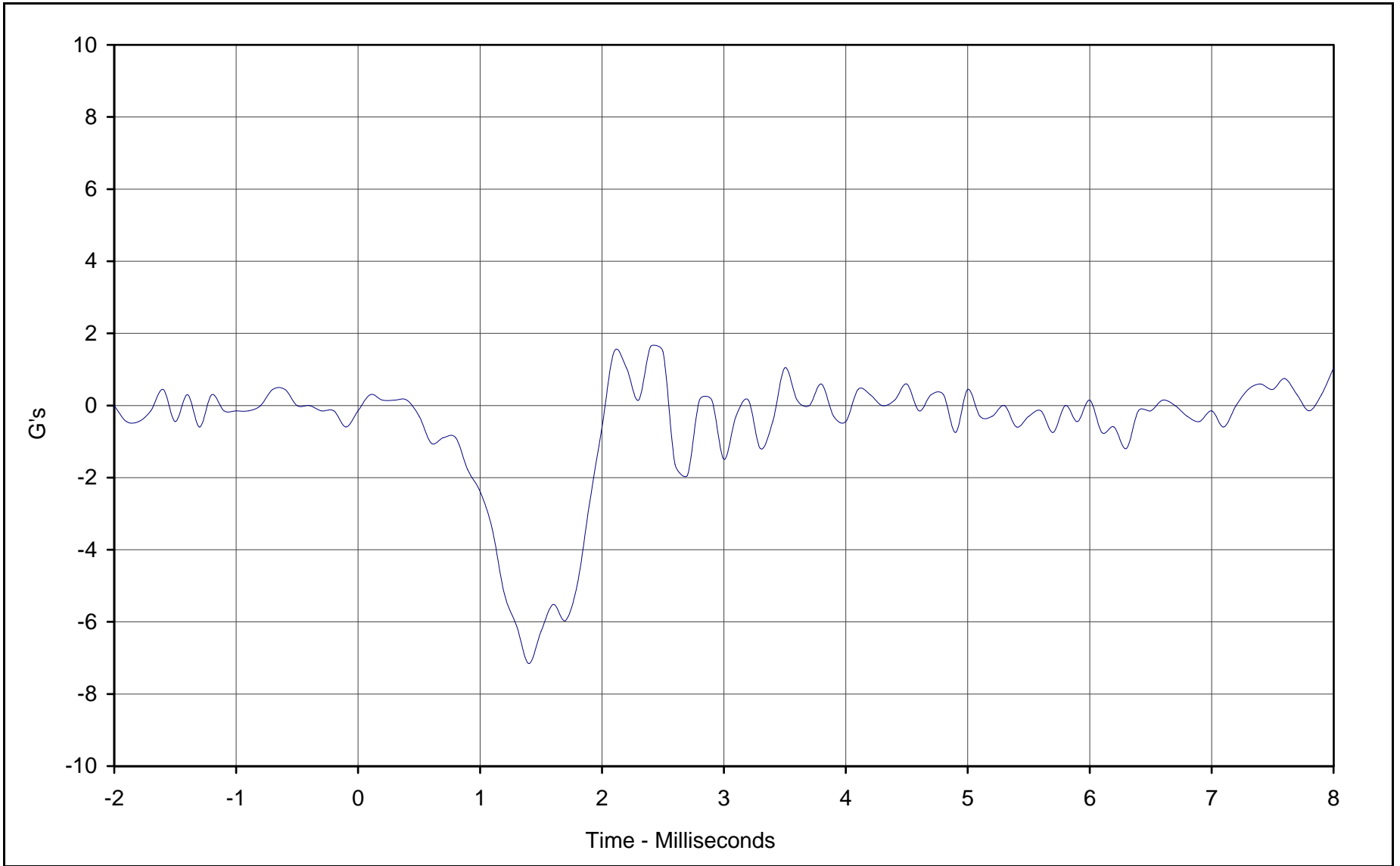
Curve Description: Head Resultant Acceleration
Maximum Value: 229.5 at 1.4 Milliseconds
Minimum Value: 0.5 at 0.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/21/00

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 274 Test I.D.: HD12M



KAR21003-08

C-12



Curve Description: Head Y Axis Acceleration
Maximum Value: 1.6 at 2.4 Milliseconds
Minimum Value: -7.2 at 1.4 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/21/00

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 274 Test I.D.: HD12M



KAR21003-08



Performance Verification Data Side Impact Dummy (SID) External Dimensions

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: N/A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory temperature	°C	20.4 to 22.1	21.1	Pass
Laboratory relative humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	908	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	515	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	510	Pass
KV- Knee Pivot From Floor	mm	490 to 505	502	Pass
HW- Hip Width	mm	356 to 391	365	Pass
Overall Test Results				Pass

Laboratory Technician

December 21, 2000

Test Date

Approved By

Date



Performance Verification Data Side Impact Dummy (SID) Thorax Lateral Impact

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: TI12H

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.27	Pass
Left Upper Rib Acceleration	G's	37.0 to 46.0	40.3	Pass
Left Lower Rib Acceleration	G's	37.0 to 46.0	38.5	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	18.0	Pass
Overall Test Results				Pass

Laboratory Technician

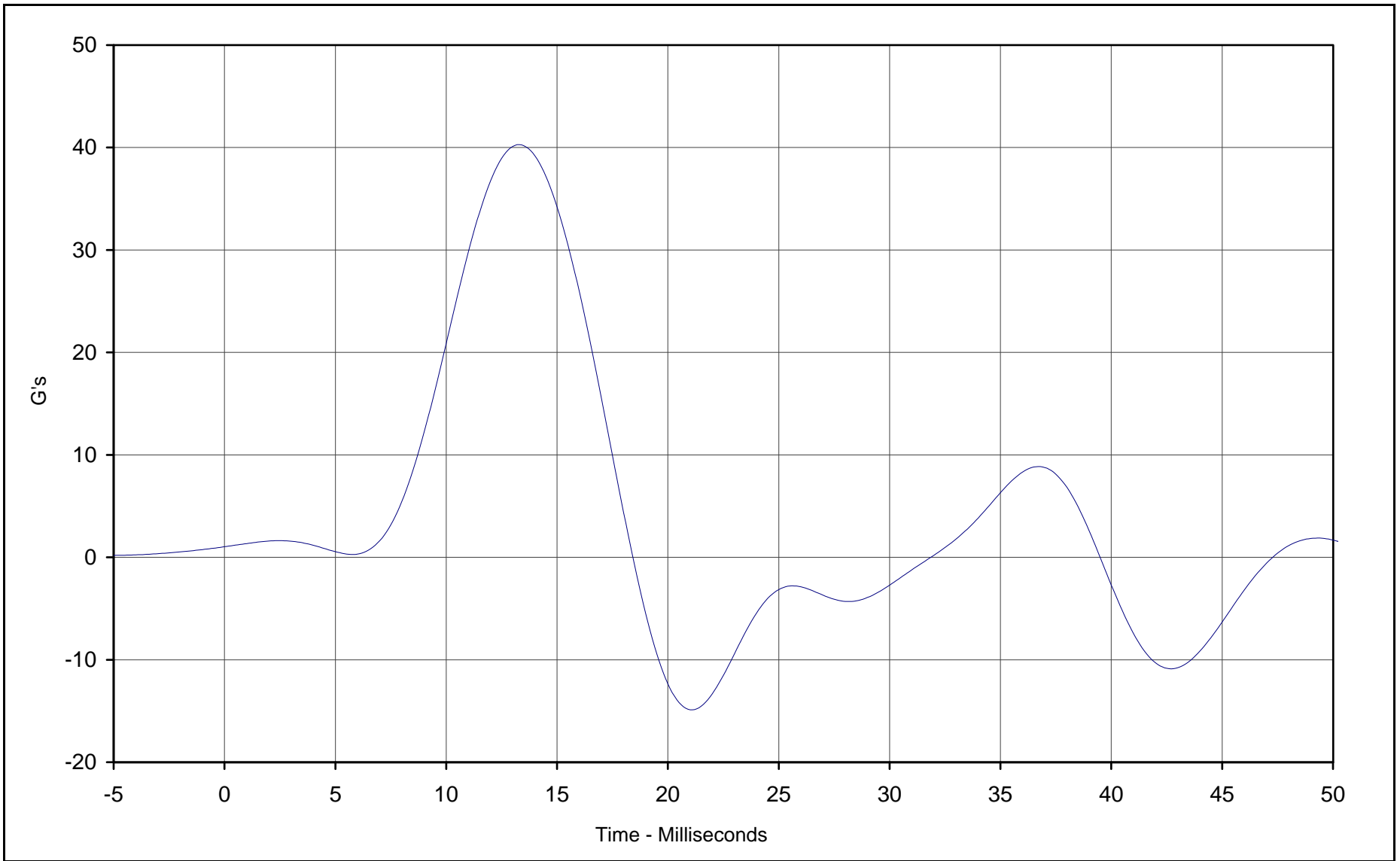
December 20, 2000

Test Date

Approved By

Date

C-15



Curve Description: Left Upper Rib Y Acceleration

Maximum Value: 40.3 at 13.3 Milliseconds

Minimum Value: -14.9 at 21.1 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 12/20/00

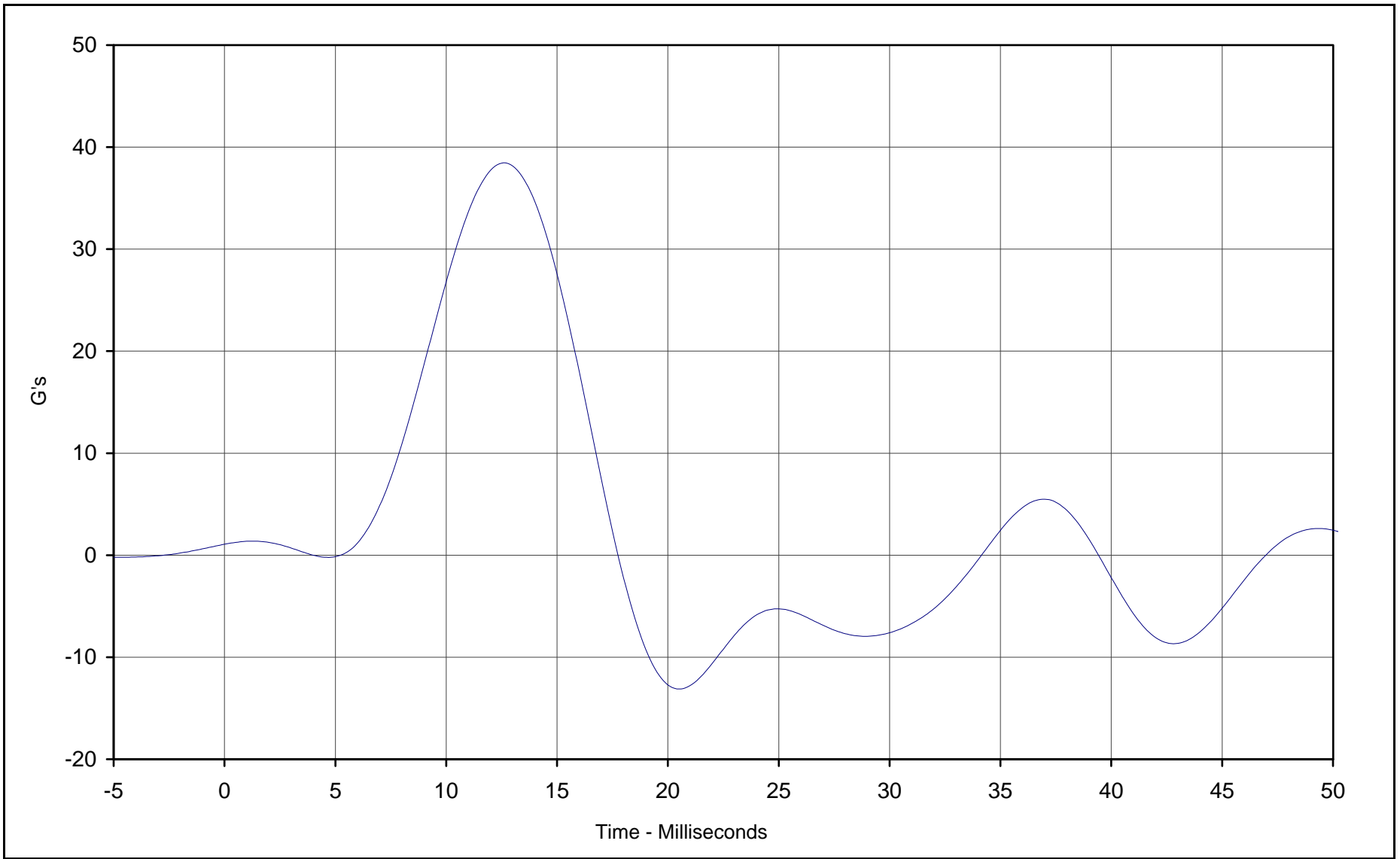
Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 275 Test I.D.: TI12H

KAR21003-08



C-16



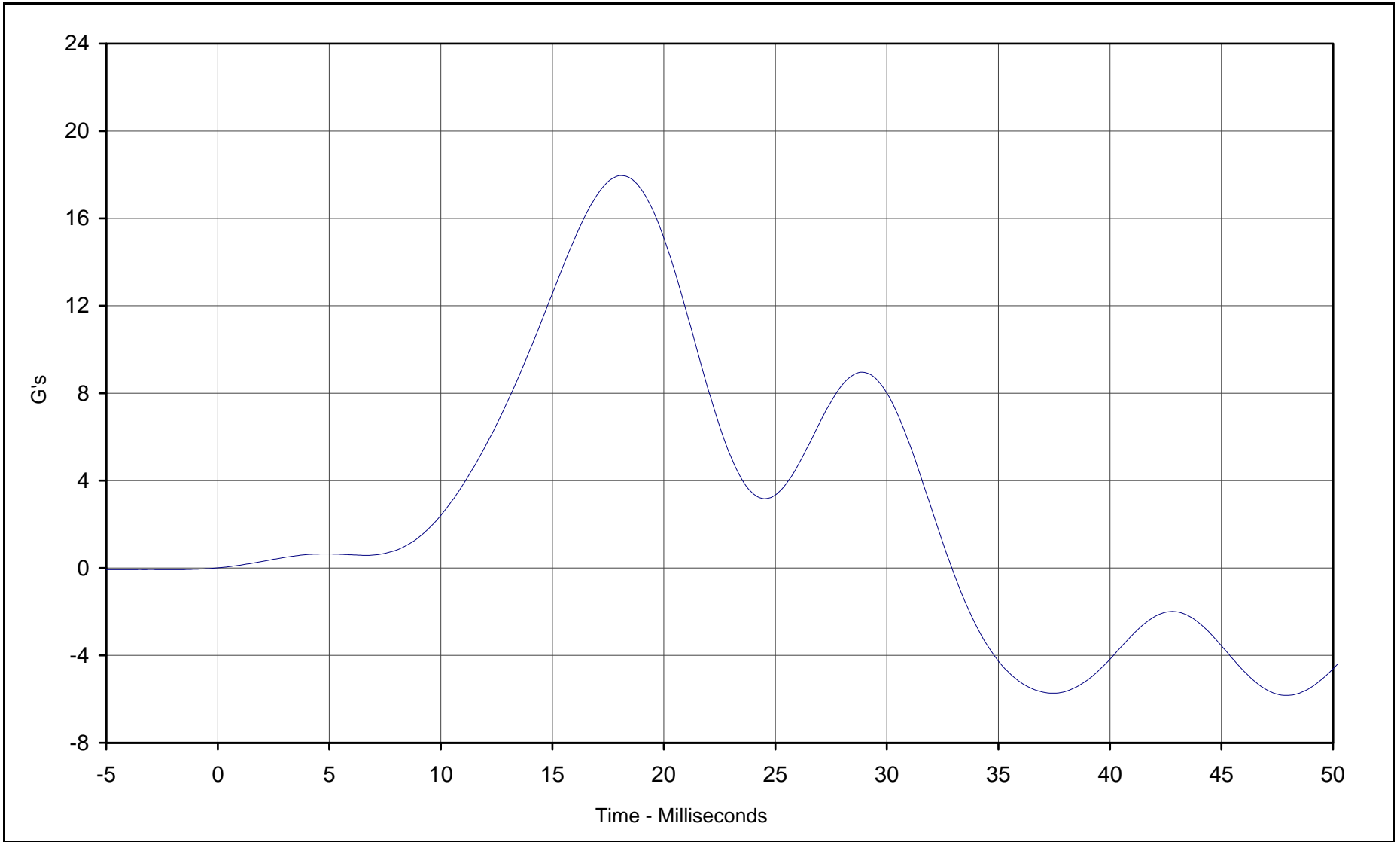
Curve Description: Left Lower Rib Y Acceleration
Maximum Value: 38.5 at 12.6 Milliseconds
Minimum Value: -13.1 at 20.5 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/20/00

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 275 Test I.D.: TI12H

KAR21003-08



C-17



Curve Description: Lower Spine Y Acceleration
Maximum Value: 18.0 at 18.1 Milliseconds
Minimum Value: -5.8 at 47.9 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/20/00

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 275 Test I.D.: T112H



KAR21003-08



**Performance Verification Data
Side Impact Dummy (SID)
Left Side Pelvis Lateral Impact**

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: PI12H

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.25	Pass
Pelvis Acceleration	G's	40.0 to 60.0	42.8	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0 Msec.	6.8	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

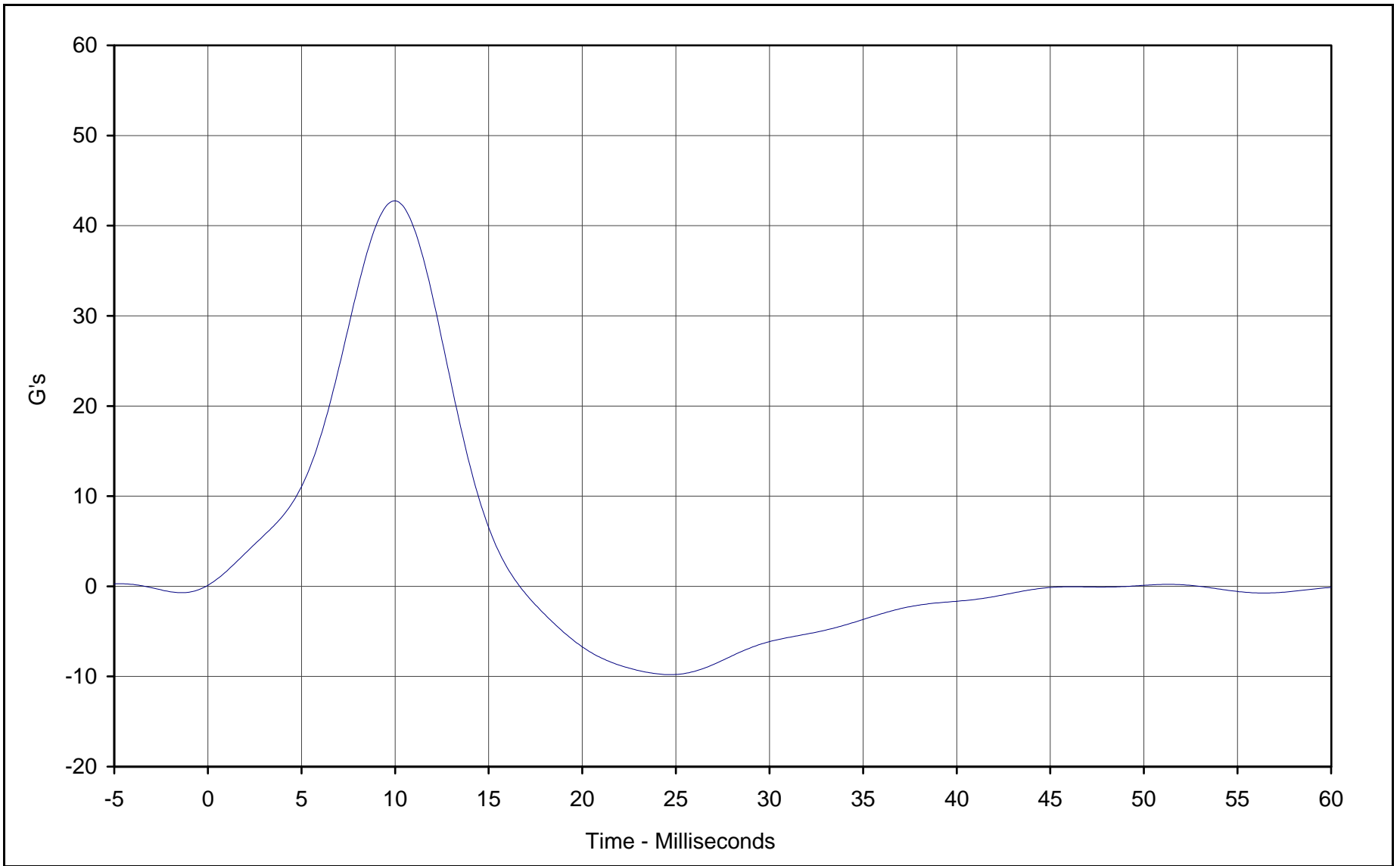
December 20, 2000

Test Date

Approved By

Date

C-19



Curve Description: Pelvis Y Axis Acceleration
Maximum Value: 42.8 at 10.0 Milliseconds
Minimum Value: -9.8 at 24.7 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/20/00

Test Program: SID Left Side Pelvis Lateral Impact
Test Information: SID S/N: 275 Test I.D.: PI12H

KAR21003-08





Performance Verification Data Side Impact Dummy (SID) Abdominal Compression Test

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: AB01D

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Force at 0.5 Inches of Displacement	Pounds	23.0 to 36.0	30.3	Pass
Force at 0.75 Inches of Displacement	Pounds	36.0 to 50.0	42.0	Pass
Force at 1.0 Inches of Displacement	Pounds	50.0 to 63.0	58.3	Pass
Force at 1.3 Inches of Displacement	Pounds	73.0 to 88.0	79.7	Pass
Overall Test Results				Pass

Laboratory Technician

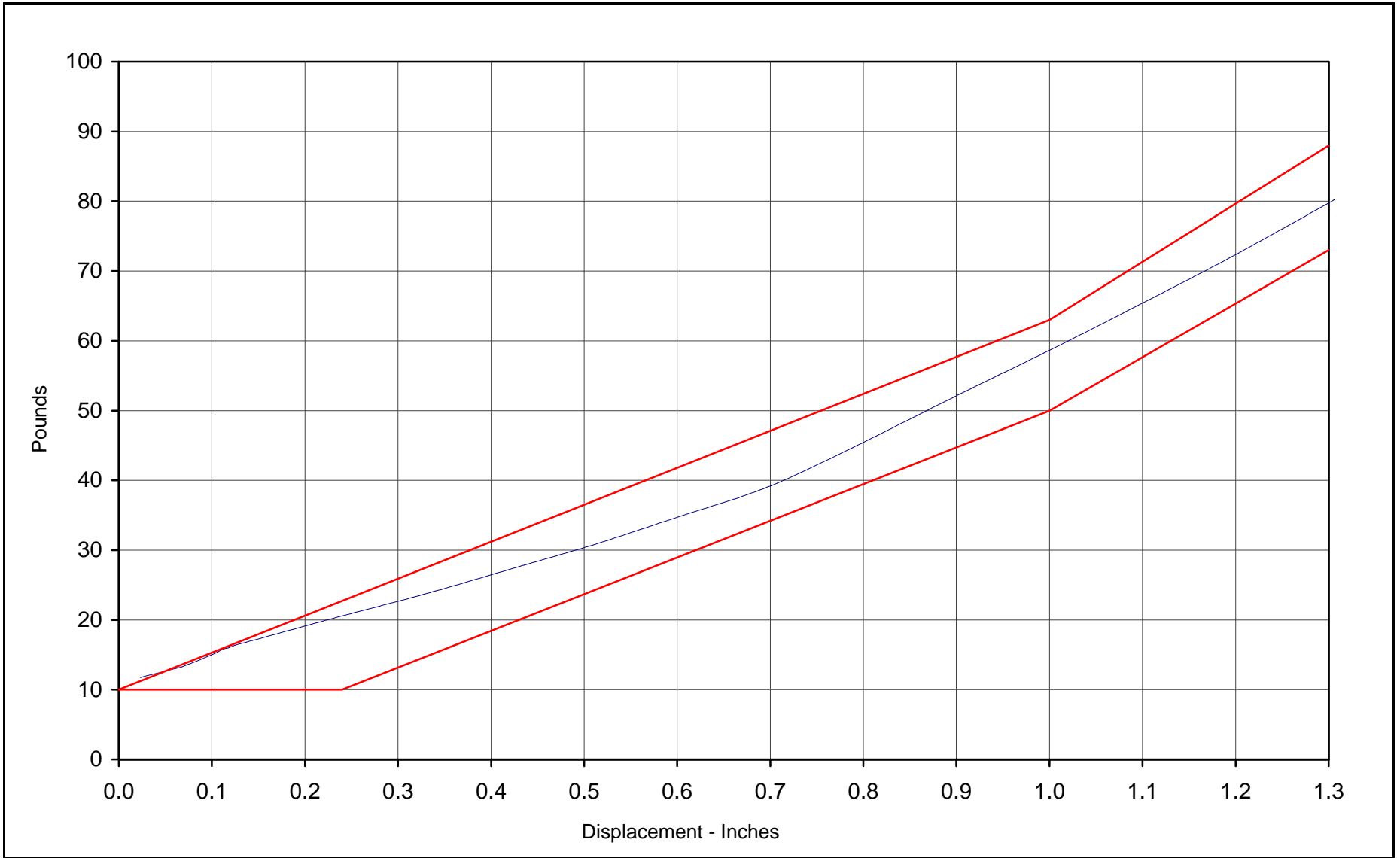
December 21, 2000

Test Date

Approved By

Date

C-21



Curve Description: Abdomen Force vs. Displacement

Test Program: SID Abdominal Compression

Force at 0.5 In.: 30.3 Pounds

Test Information: SID S/N: 275 Test I.D.: AB01D

Force at 0.75 In.: 42.0 Pounds

Force at 1.0 In.: 58.3 Pounds

Force at 1.3 In.: 79.7 Pounds

Date of Test: 12/21/00



KARR21003-08



Performance Verification Data Side Impact Dummy (SID) Head Drop Calibration

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: HD12N

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	69	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	210.0 to 260.0	239.3	Pass
Peak Lateral Acceleration	G's	≤10.0	3.8	Pass
Time Above 100 G's	Msec.	0.9 to 1.5	1.1	Pass
Is Resultant Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

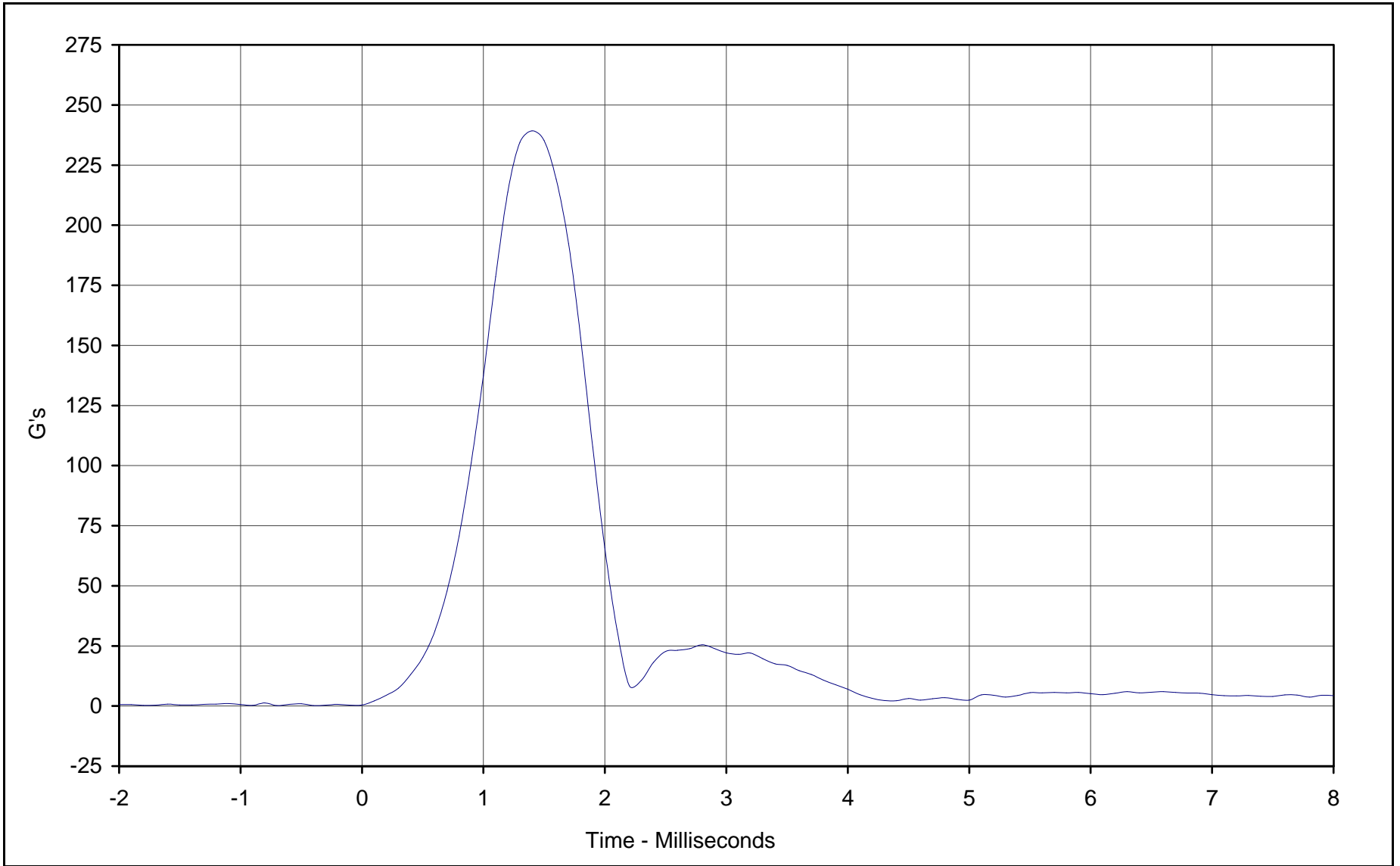
December 21, 2000

Test Date

Approved By

Date

C-23



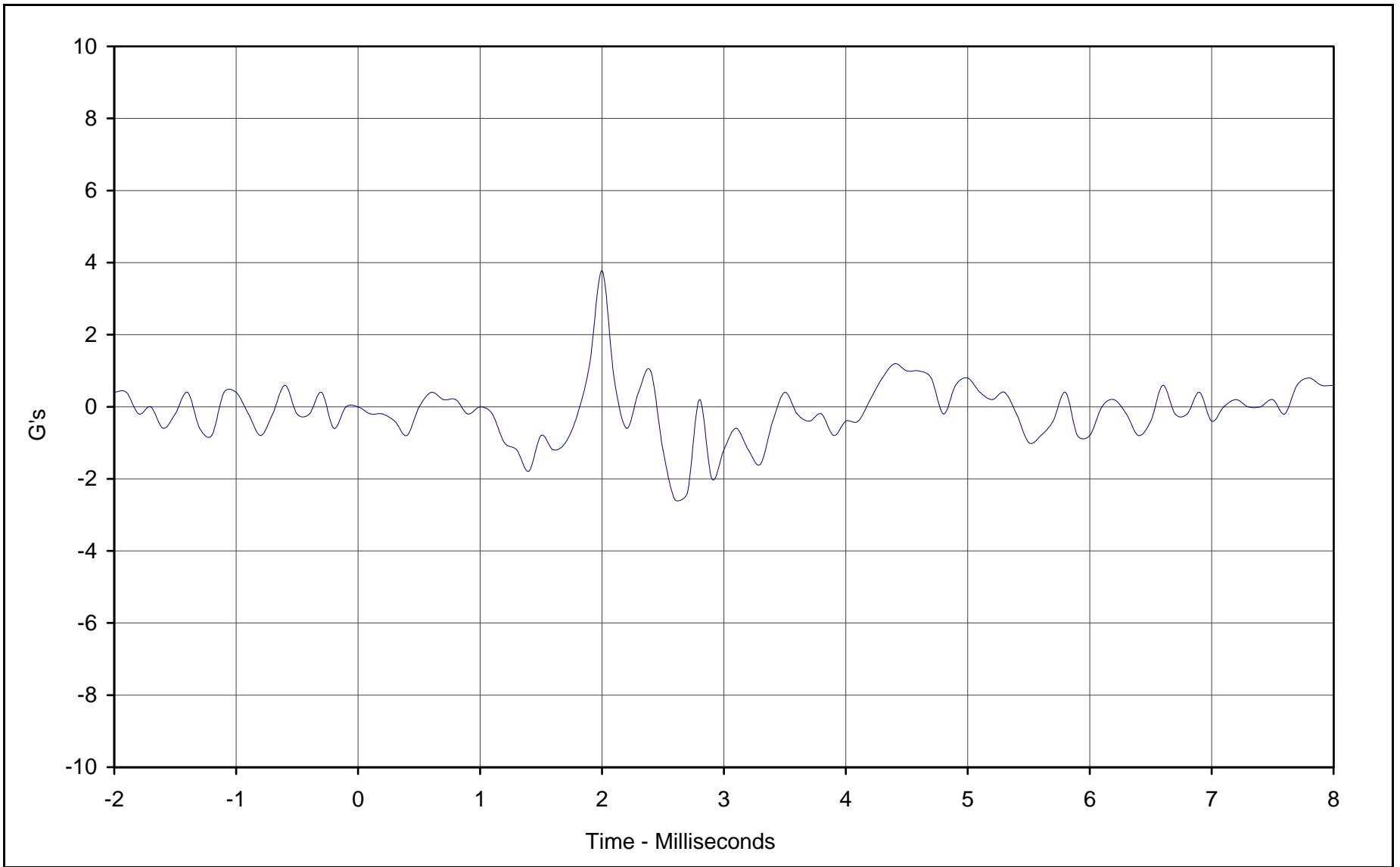
Curve Description: Head Resultant Acceleration
Maximum Value: 239.3 at 1.4 Milliseconds
Minimum Value: 0.4 at 0.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/21/00

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 275 Test I.D.: HD12N



KAR21003-08

C-24



Curve Description: Head Y Axis Acceleration
Maximum Value: 3.8 at 2 Milliseconds
Minimum Value: -2.6 at 2.6 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/21/00

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 275 Test I.D.: HD12N



KAR21003-08

APPENDIX C
POST-TEST SID CONFIGURATION AND PERFORMANCE VERIFICATION DATA



Performance Verification Data Side Impact Dummy (SID) External Dimensions

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: N/A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory temperature	°C	20.4 to 22.1	21.1	Pass
Laboratory relative humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	905	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	514	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	510	Pass
KV- Knee Pivot From Floor	mm	490 to 505	503	Pass
HW- Hip Width	mm	356 to 391	360	Pass
Overall Test Results				Pass

Laboratory Technician

December 28, 2000

Test Date

Approved By

Date



Performance Verification Data Side Impact Dummy (SID) Thorax Lateral Impact

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: TI12I

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.22	Pass
Left Upper Rib Acceleration	G's	37.0 to 46.0	41.3	Pass
Left Lower Rib Acceleration	G's	37.0 to 46.0	40.8	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	18.7	Pass
Overall Test Results				Pass

Laboratory Technician

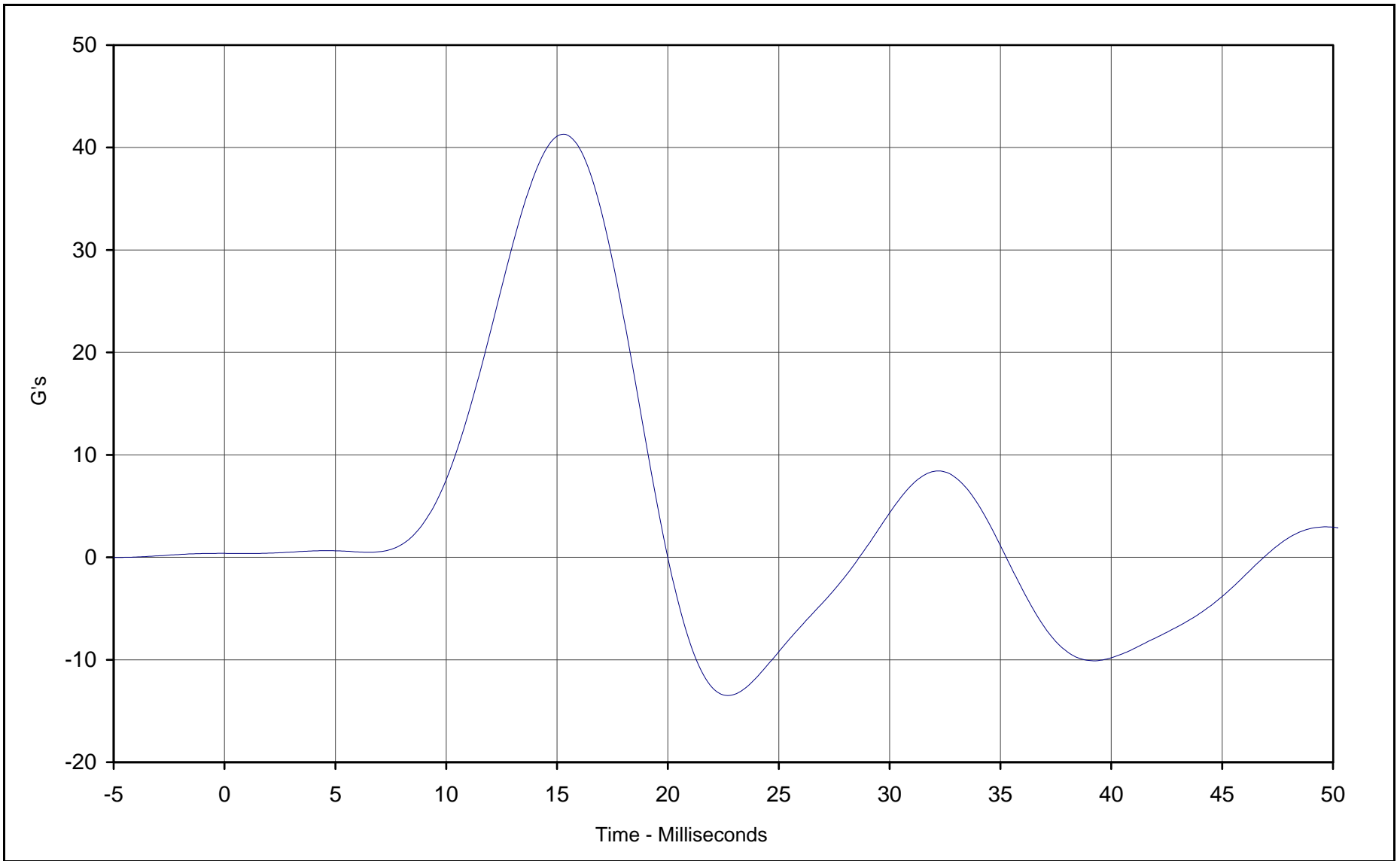
December 27, 2000

Test Date

Approved By

Date

C-27



Curve Description: Left Upper Rib Y Acceleration

Maximum Value: 41.3 at 15.3 Milliseconds

Minimum Value: -13.5 at 22.7 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 12/27/00

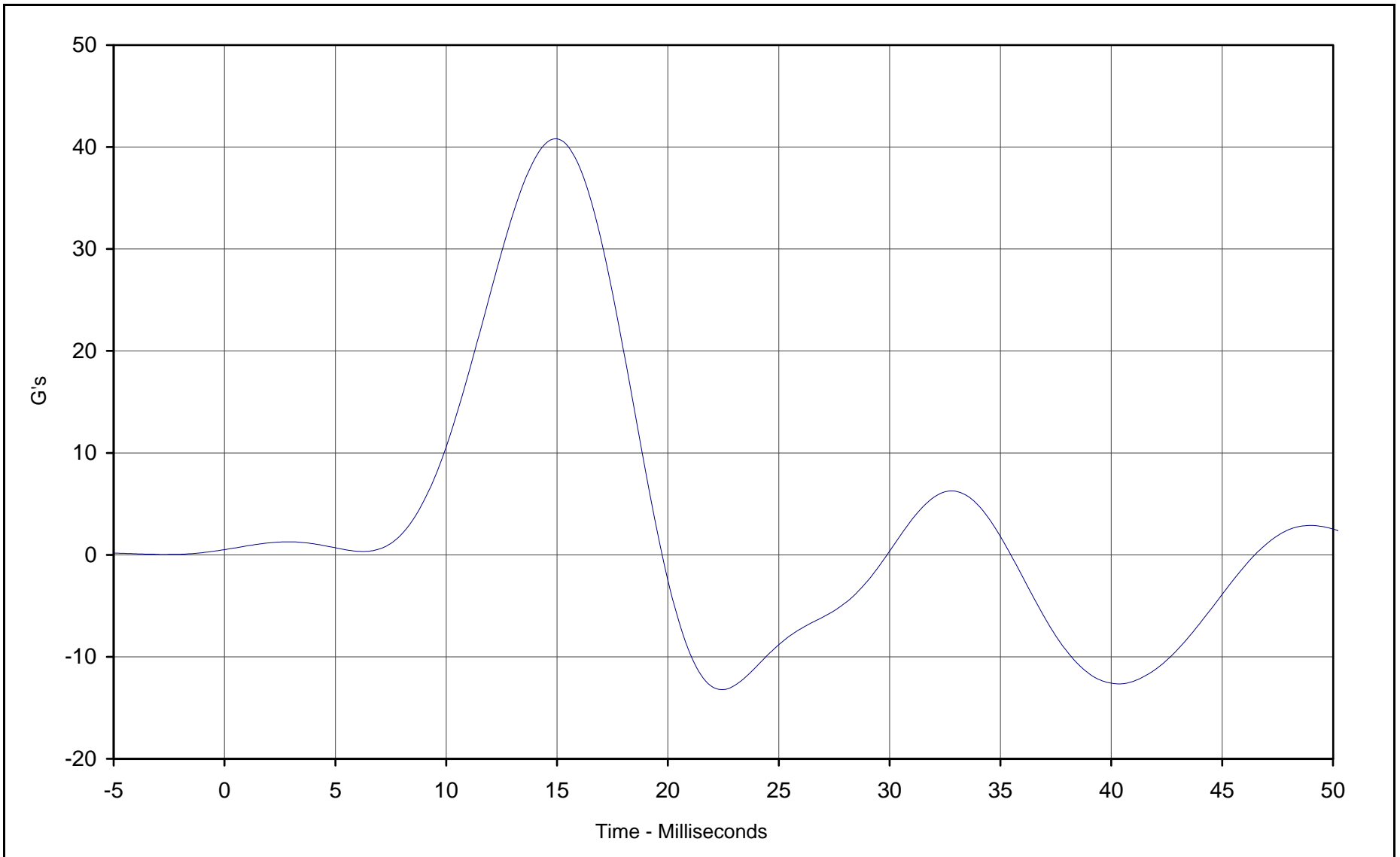
Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 274 Test I.D.: T112I

KAR21003-08



C-28



Curve Description: Left Lower Rib Y Acceleration

Maximum Value: 40.8 at 14.9 Milliseconds

Minimum Value: -13.2 at 22.4 Milliseconds

SAE Filter Class: FIR 100

Date of Test: 12/27/00

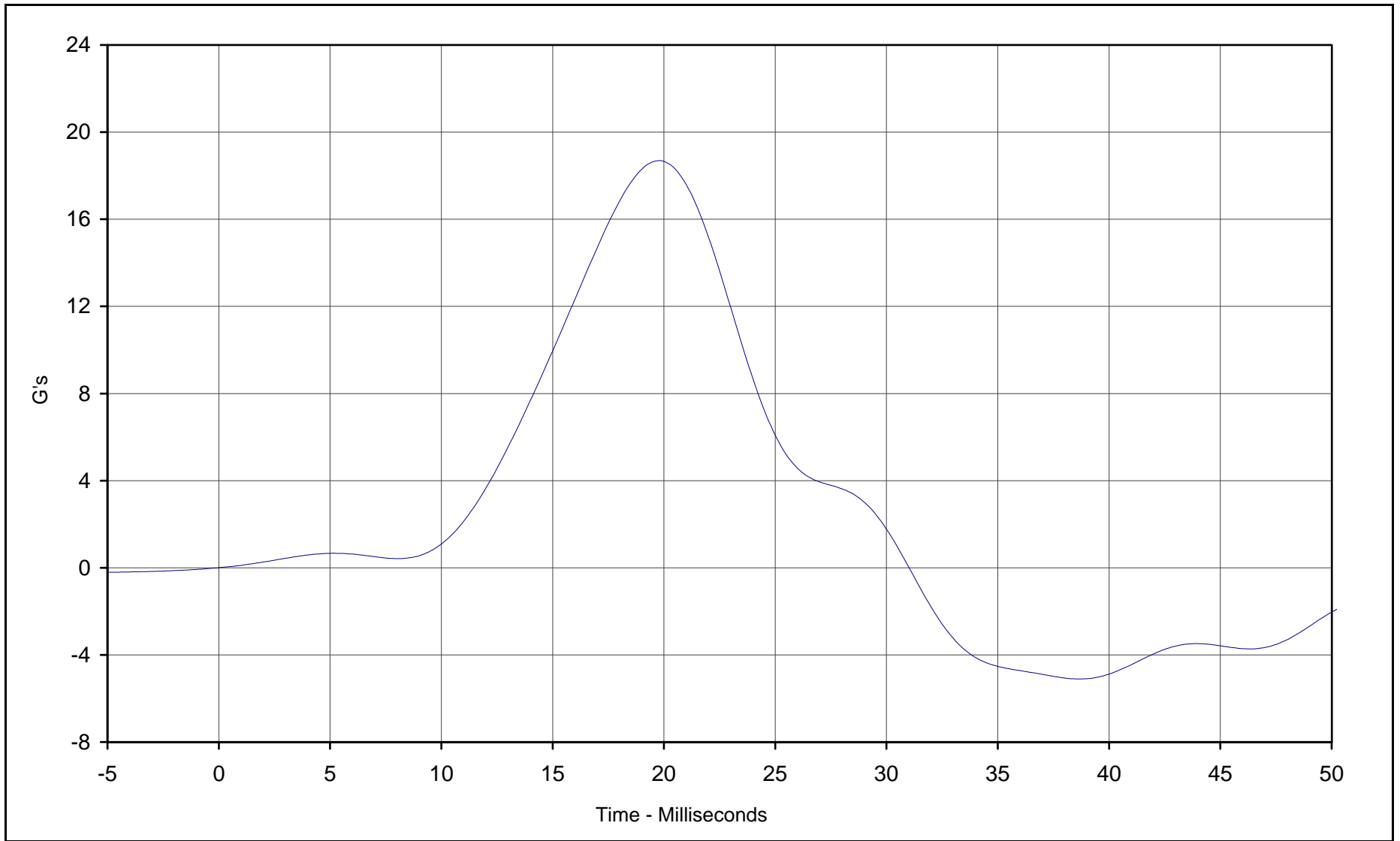
Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 274 Test I.D.: T112I

KAR21003-08



C-29



Curve Description: Lower Spine Y Acceleration
Maximum Value: 18.7 at 19.8 Milliseconds
Minimum Value: -5.1 at 38.6 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/27/00

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 274 Test I.D.: T112I



KAR21003-08



**Performance Verification Data
Side Impact Dummy (SID)
Left Side Pelvis Lateral Impact**

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: PI12I

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.33	Pass
Pelvis Acceleration	G's	40.0 to 60.0	44.0	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0 Msec.	6.1	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

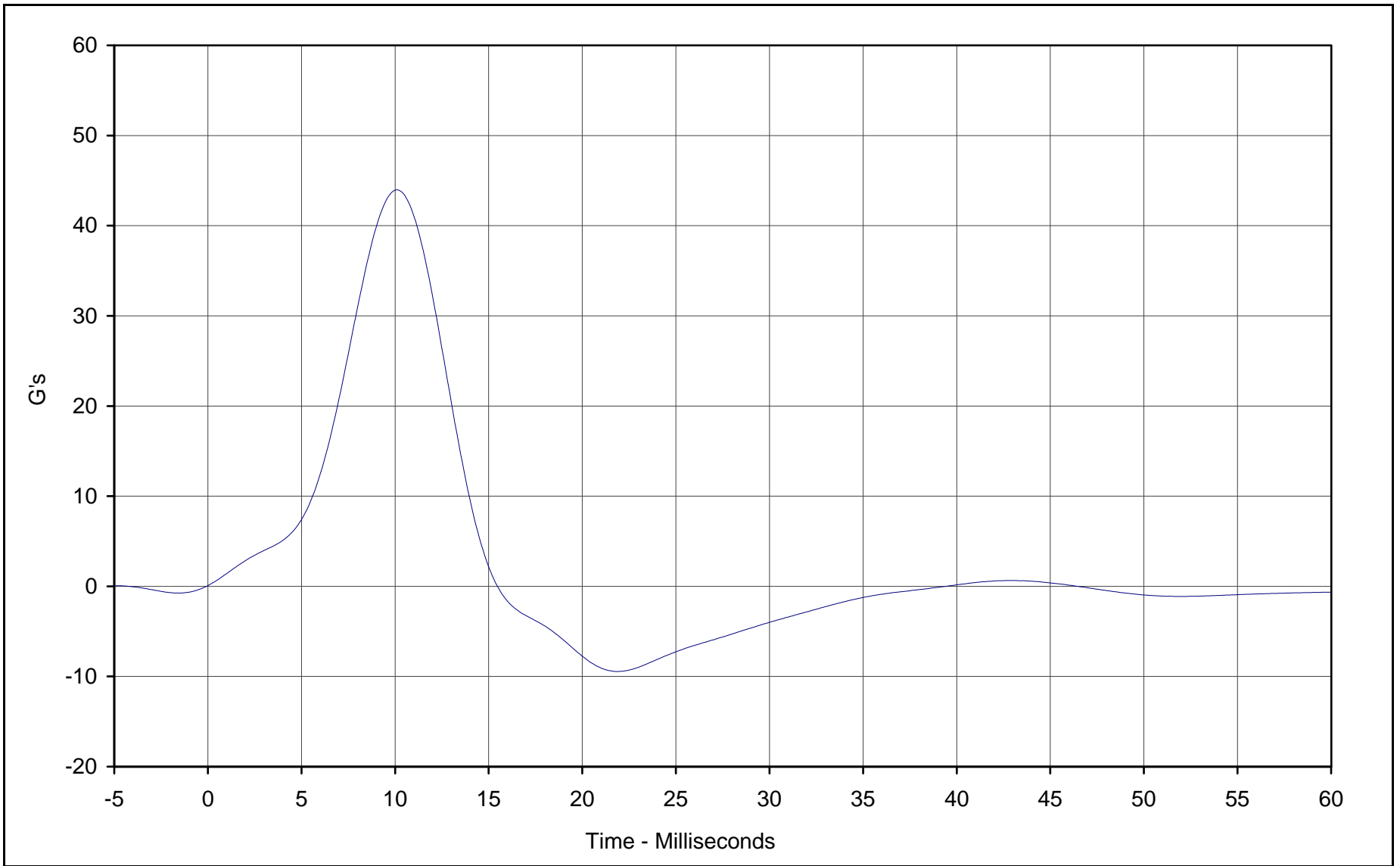
December 27, 2000

Test Date

Approved By

Date

C-31



Curve Description: Pelvis Y Axis Acceleration
Maximum Value: 44.0 at 10.1 Milliseconds
Minimum Value: -9.4 at 21.9 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/27/00

Test Program: SID Left Side Pelvis Lateral Impact
Test Information: SID S/N: 274 Test I.D.: P112I

KAR21003-08





Performance Verification Data Side Impact Dummy (SID) Abdominal Compression Test

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: AB01F

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Force at 0.5 Inches of Displacement	Pounds	23.0 to 36.0	28.9	Pass
Force at 0.75 Inches of Displacement	Pounds	36.0 to 50.0	43.2	Pass
Force at 1.0 Inches of Displacement	Pounds	50.0 to 63.0	60.2	Pass
Force at 1.3 Inches of Displacement	Pounds	73.0 to 88.0	83.8	Pass
Overall Test Results				Pass

Laboratory Technician

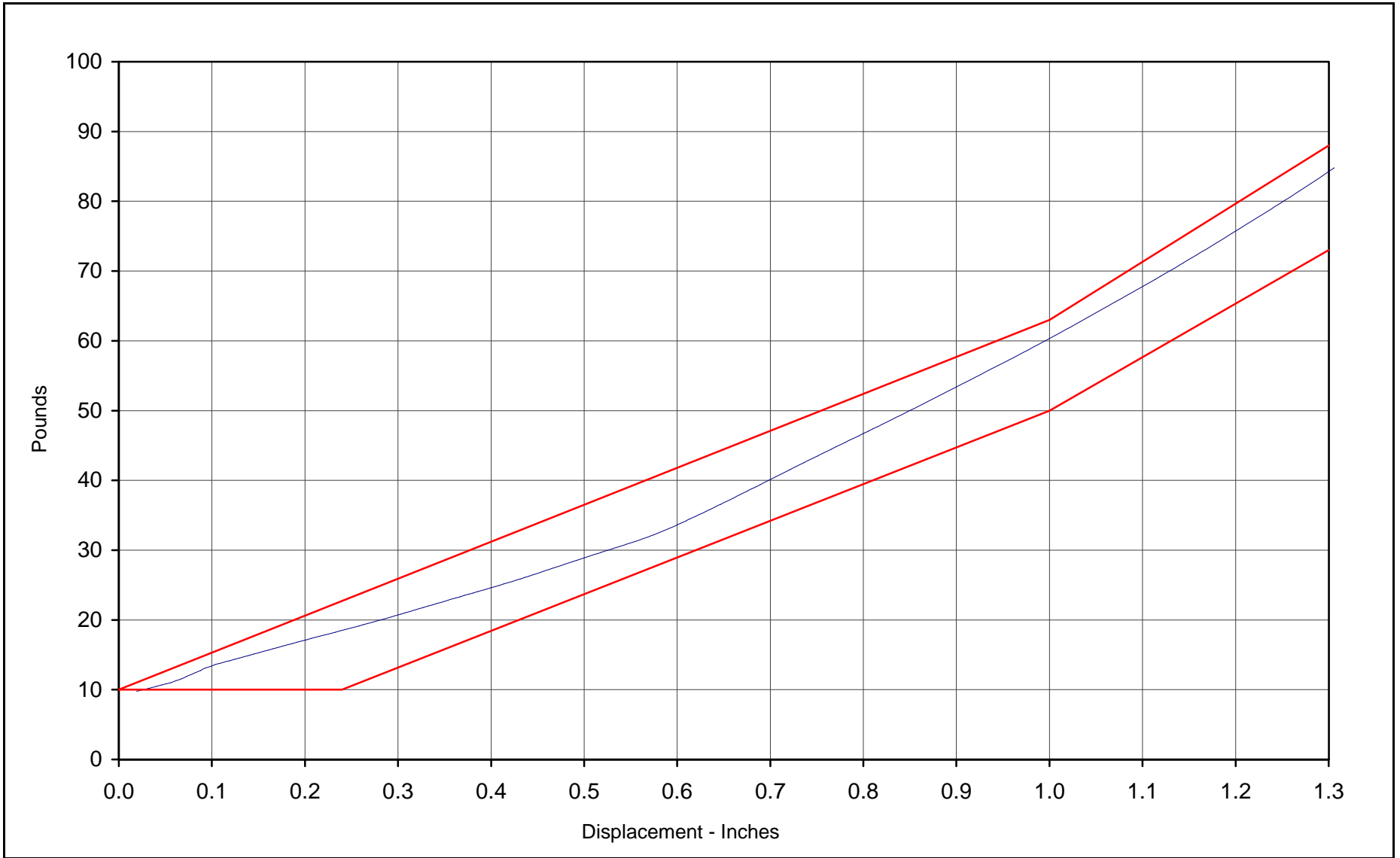
December 27, 2000

Test Date

Approved By

Date

C-33



Curve Description: Abdomen Force vs. Displacement

Test Program: SID Abdominal Compression

Force at 0.5 In.: 28.9 Pounds

Test Information: SID S/N: 274 Test I.D.: AB01F

Force at 0.75 In.: 43.2 Pounds

Force at 1.0 In.: 60.2 Pounds

Force at 1.3 In.: 83.8 Pounds

Date of Test: 12/27/00



KARR21003-08



Performance Verification Data Side Impact Dummy (SID) Head Drop Calibration

ATD Serial No.: 274

Part Serial No.: N/A

Test I.D.: HD120

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	69	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	210.0 to 260.0	246.5	Pass
Peak Lateral Acceleration	G's	≤10.0	4.2	Pass
Time Above 100 G's	Msec.	0.9 to 1.5	1.0	Pass
Is Resultant Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

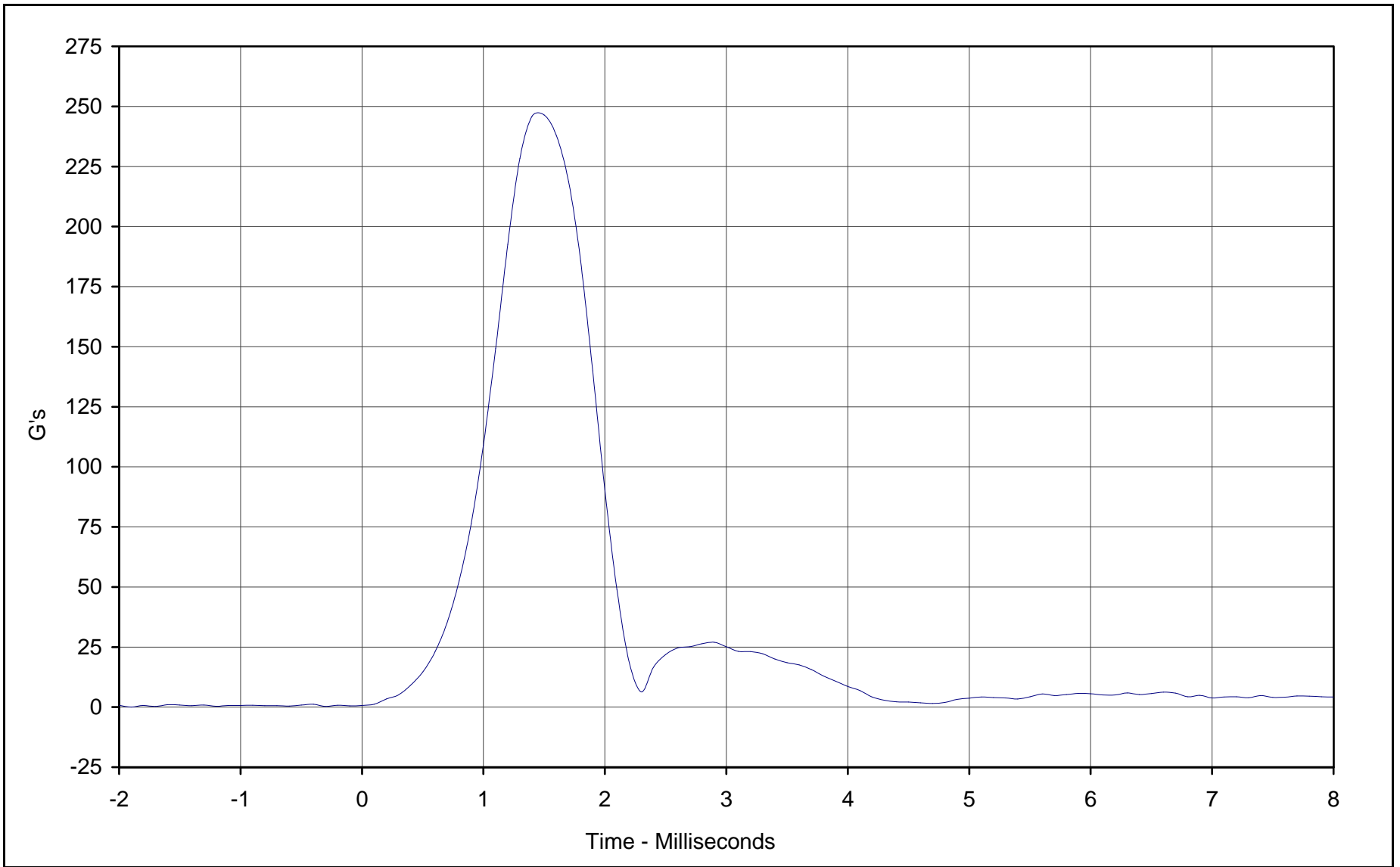
December 27, 2000

Test Date

Approved By

Date

C-35



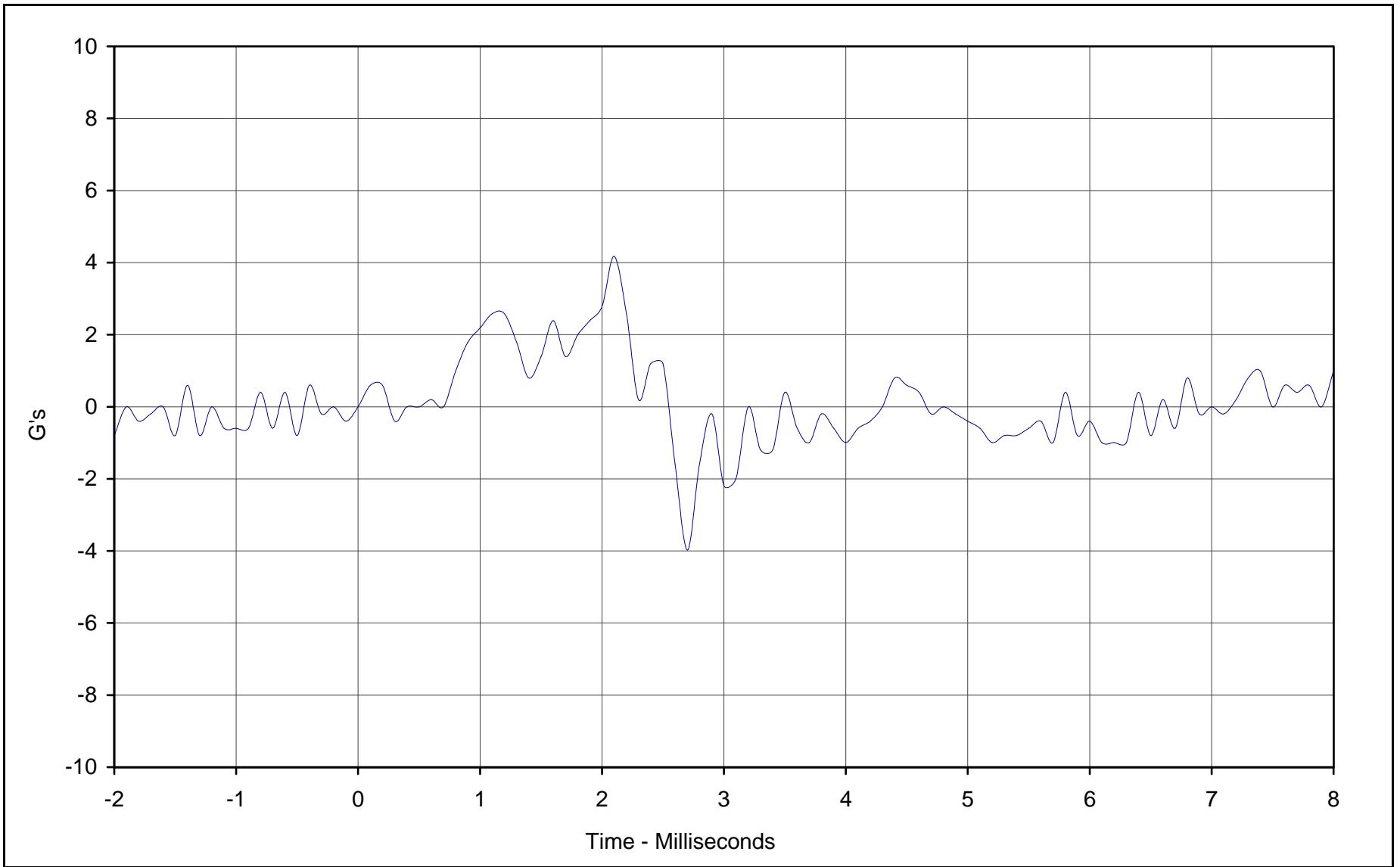
Curve Description: Head Resultant Acceleration
Maximum Value: 246.5 at 1.5 Milliseconds
Minimum Value: 0.7 at 0.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/27/00

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 274 Test I.D.: HD120



KAR21003-08

C-36



Curve Description: Head Y Axis Acceleration
Maximum Value: 4.2 at 2.1 Milliseconds
Minimum Value: -4.0 at 2.7 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/27/00

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 274 Test I.D.: HD120



KAR21003-08



Performance Verification Data Side Impact Dummy (SID) External Dimensions

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: N/A

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory temperature	°C	20.4 to 22.1	21.1	Pass
Laboratory relative humidity	%	10 to 70	30	Pass
SH- Seated Height	mm	889 to 909	906	Pass
HP- Hip Point Height	mm	99 (reference)	99	Pass
RH- Rib Height	mm	502 to 520	515	Pass
KH- Knee Pivot From Back Line	mm	511 to 526	512	Pass
KV- Knee Pivot From Floor	mm	490 to 505	495	Pass
HW- Hip Width	mm	356 to 391	365	Pass
Overall Test Results				Pass

Laboratory Technician

December 28, 2000

Test Date

Approved By

Date



Performance Verification Data

Side Impact Dummy (SID)

Thorax Lateral Impact

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: TI12J

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.29	Pass
Left Upper Rib Acceleration	G's	37.0 to 46.0	40.7	Pass
Left Lower Rib Acceleration	G's	37.0 to 46.0	44.2	Pass
Thoracic Spine Acceleration	G's	15.0 to 22.0	18.9	Pass
Overall Test Results				Pass

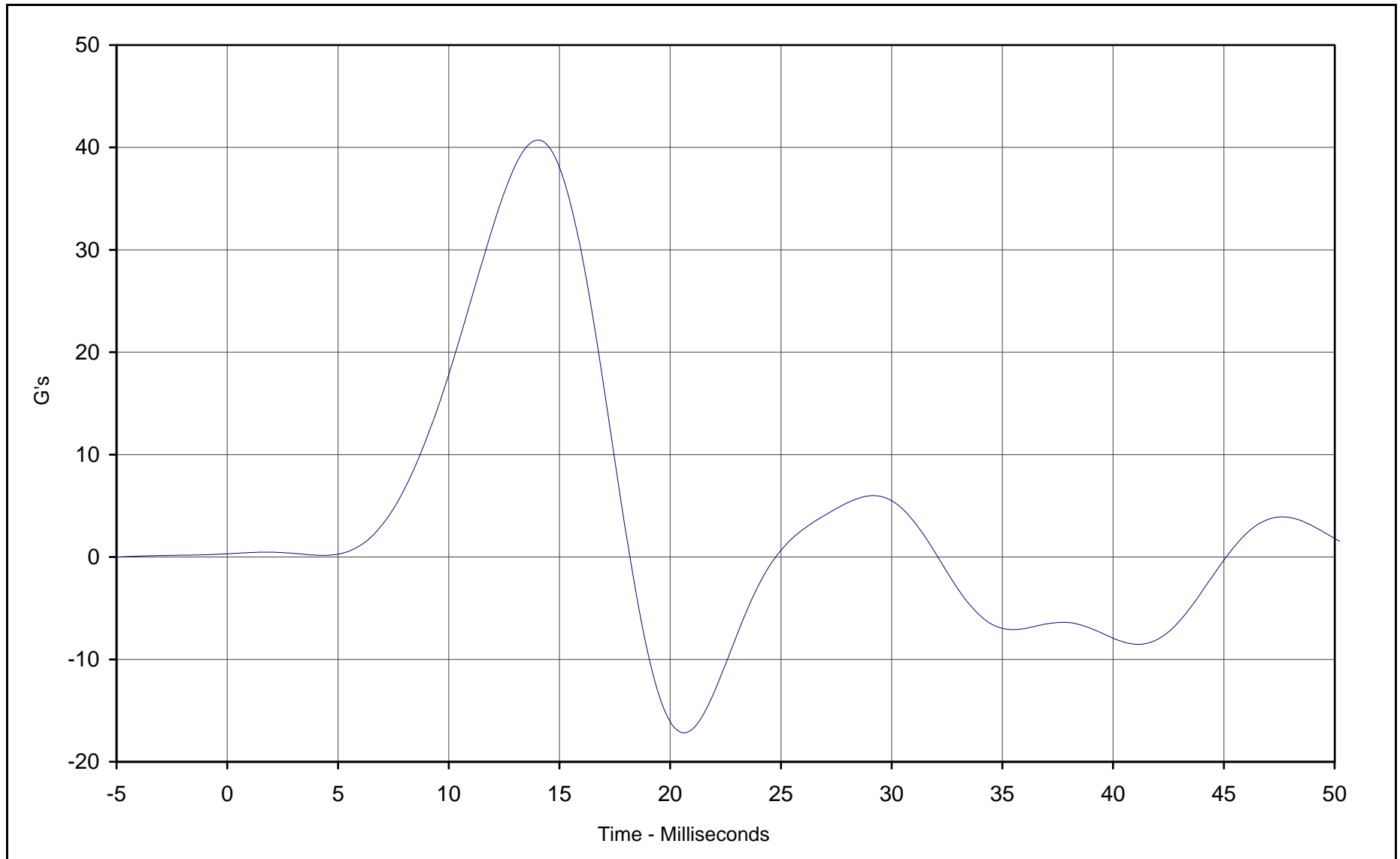
Laboratory Technician

December 27, 2000

Test Date

Approved By

Date



Curve Description: Left Upper Rib Y Acceleration

Maximum Value: 40.7 at 14.0 Milliseconds

Minimum Value: -17.2 at 20.6 Milliseconds

SAE Filter Class: FIR 100

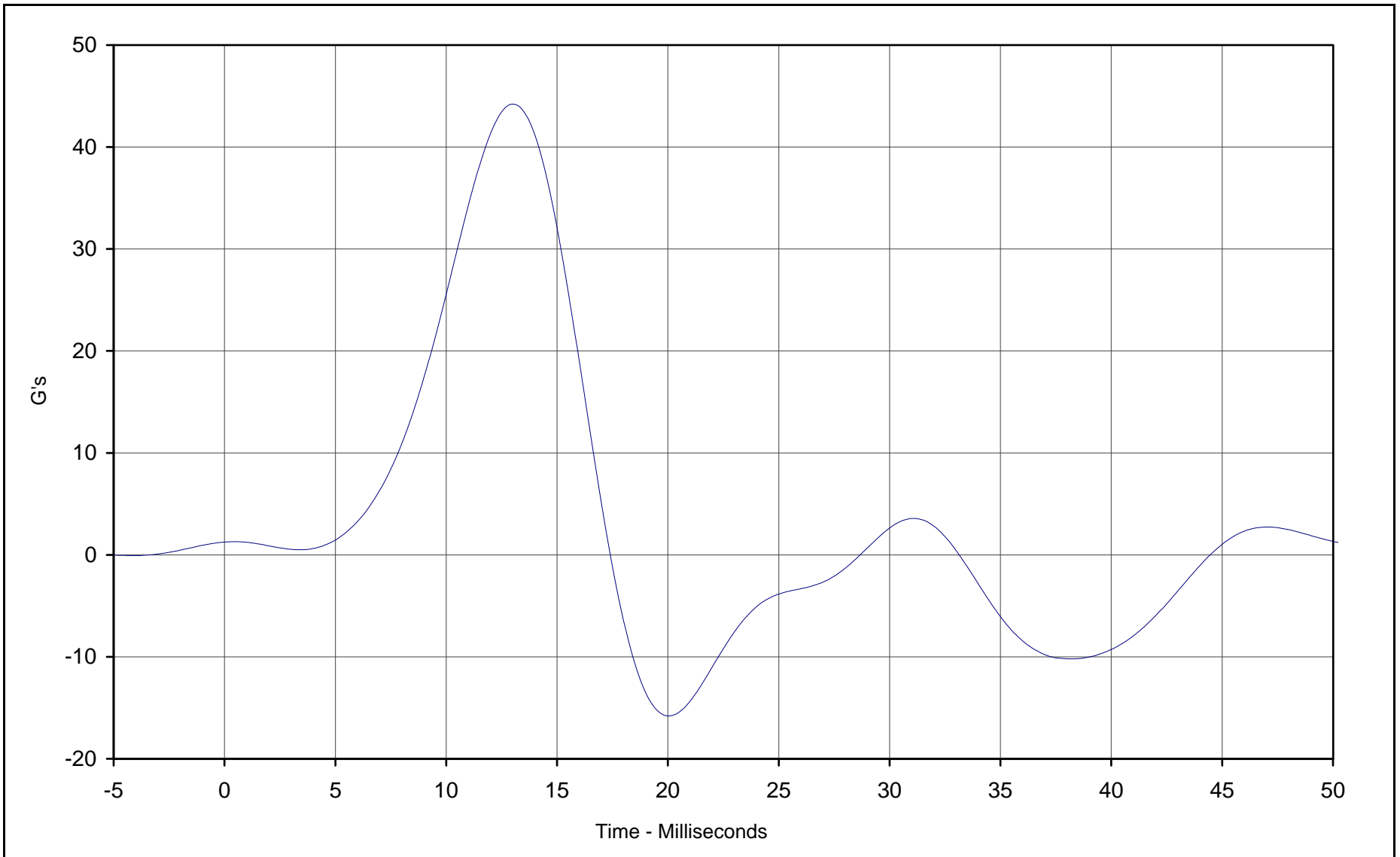
Date of Test: 12/27/00

Test Program: SID Thorax Lateral Impact Test

Test Information: SID S/N: 275 Test I.D.: T112J



C-40



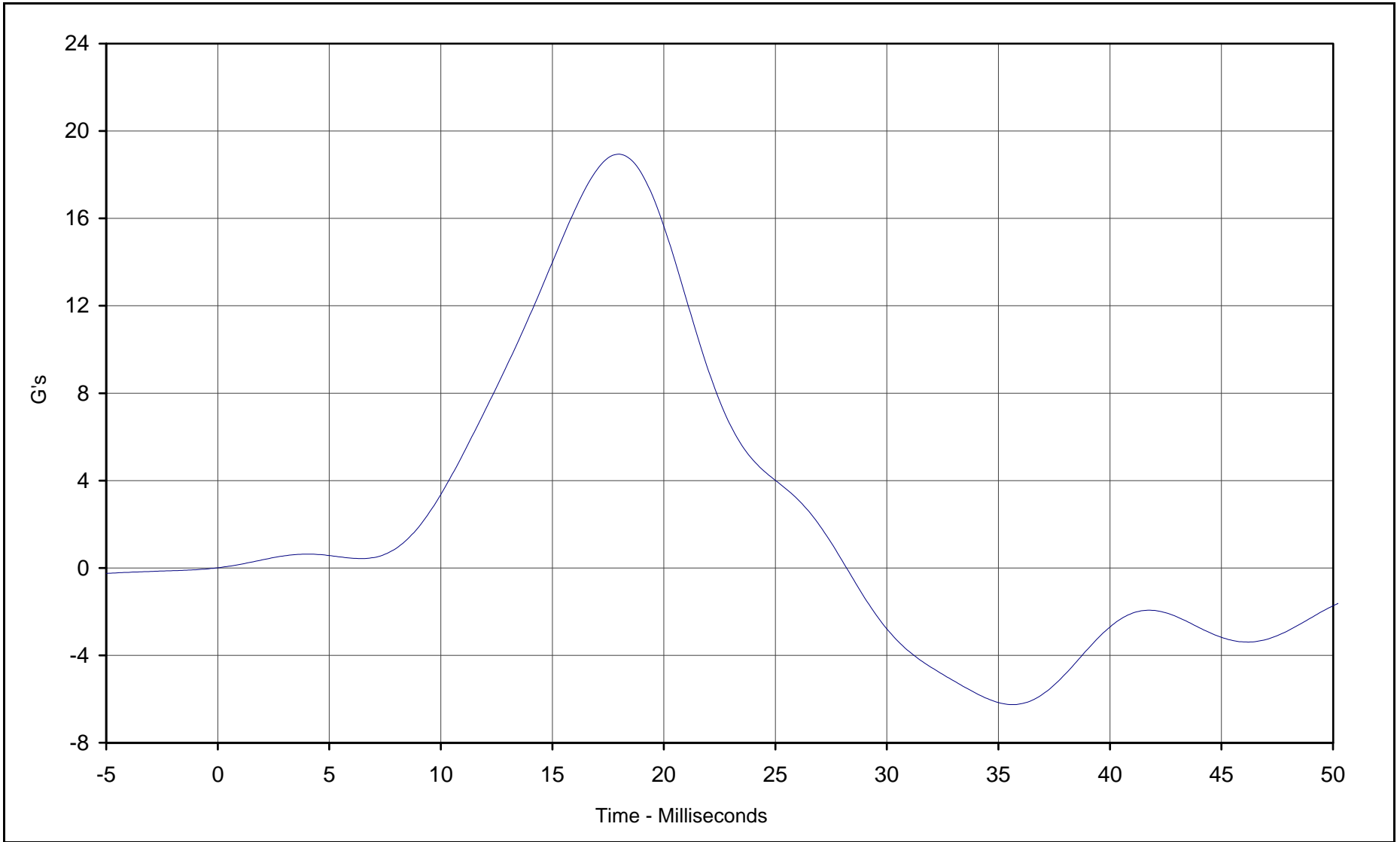
Curve Description: Left Lower Rib Y Acceleration
Maximum Value: 44.2 at 13.0 Milliseconds
Minimum Value: -15.8 at 20.0 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/27/00

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 275 Test I.D.: TI12J

KAR21003-08



C-41



Curve Description: Lower Spine Y Acceleration
Maximum Value: 18.9 at 18.0 Milliseconds
Minimum Value: -6.3 at 35.6 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/27/00

Test Program: SID Thorax Lateral Impact Test
Test Information: SID S/N: 275 Test I.D.: TI12J



KAR21003-08



**Performance Verification Data
Side Impact Dummy (SID)
Left Side Pelvis Lateral Impact**

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: PI12J

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°C	18.9 to 25.5	21.1	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Probe Velocity	m/s	4.21 to 4.33	4.33	Pass
Pelvis Acceleration	G's	40.0 to 60.0	45.8	Pass
Acceleration Time Above 20 G's	Msec.	3.0 to 7.0 Msec.	6.0	Pass
Is Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

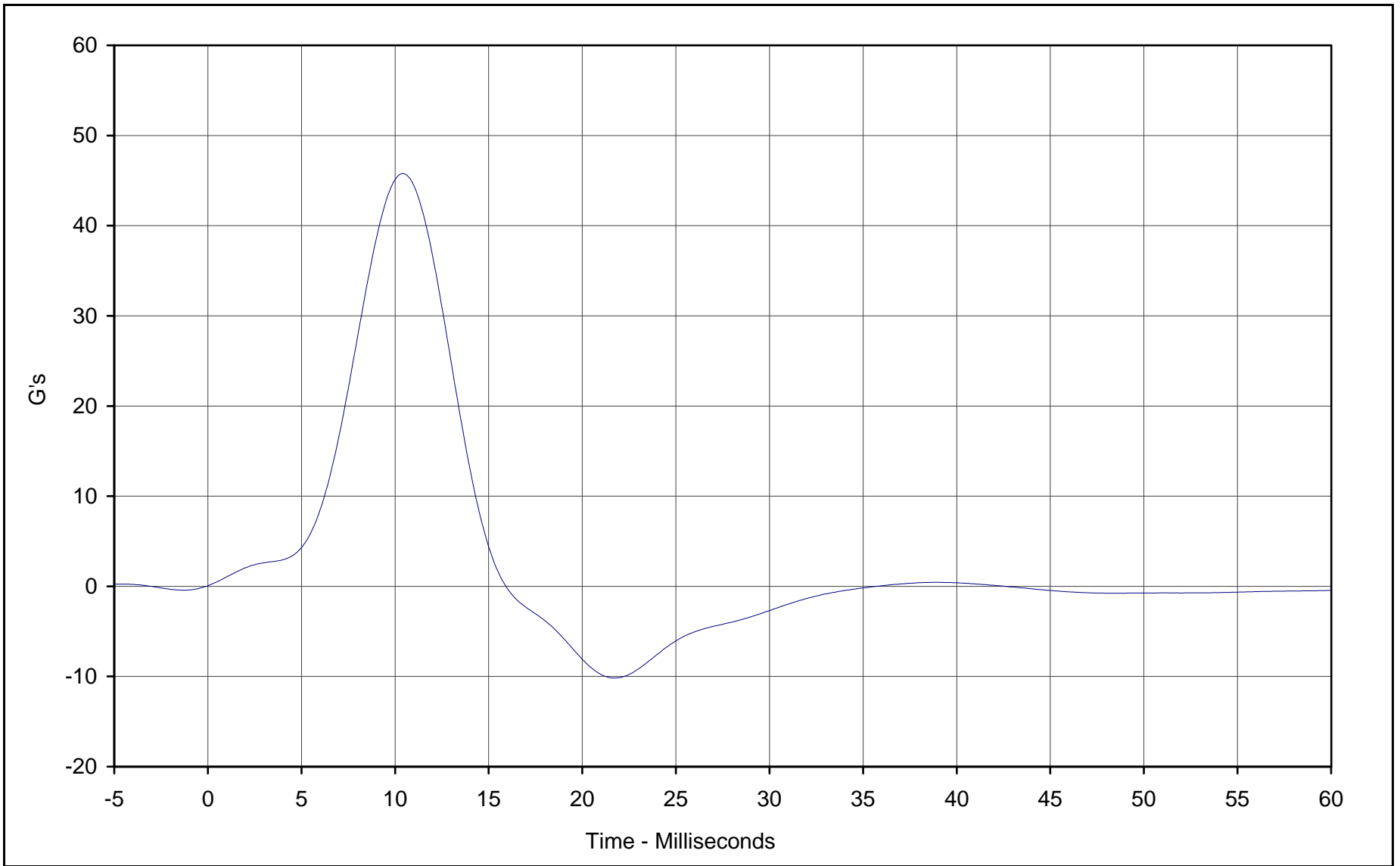
December 27, 2000

Test Date

Approved By

Date

C-43



Curve Description: Pelvis Y Axis Acceleration
Maximum Value: 45.8 at 10.4 Milliseconds
Minimum Value: -10.2 at 21.7 Milliseconds
SAE Filter Class: FIR 100
Date of Test: 12/27/00

Test Program: SID Left Side Pelvis Lateral Impact
Test Information: SID S/N: 275 Test I.D.: P112J

KAR21003-08





Performance Verification Data Side Impact Dummy (SID) Abdominal Compression Test

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: AB01E

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	70	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Force at 0.5 Inches of Displacement	Pounds	23.0 to 36.0	28.4	Pass
Force at 0.75 Inches of Displacement	Pounds	36.0 to 50.0	43.6	Pass
Force at 1.0 Inches of Displacement	Pounds	50.0 to 63.0	60.8	Pass
Force at 1.3 Inches of Displacement	Pounds	73.0 to 88.0	85.9	Pass
Overall Test Results				Pass

Laboratory Technician

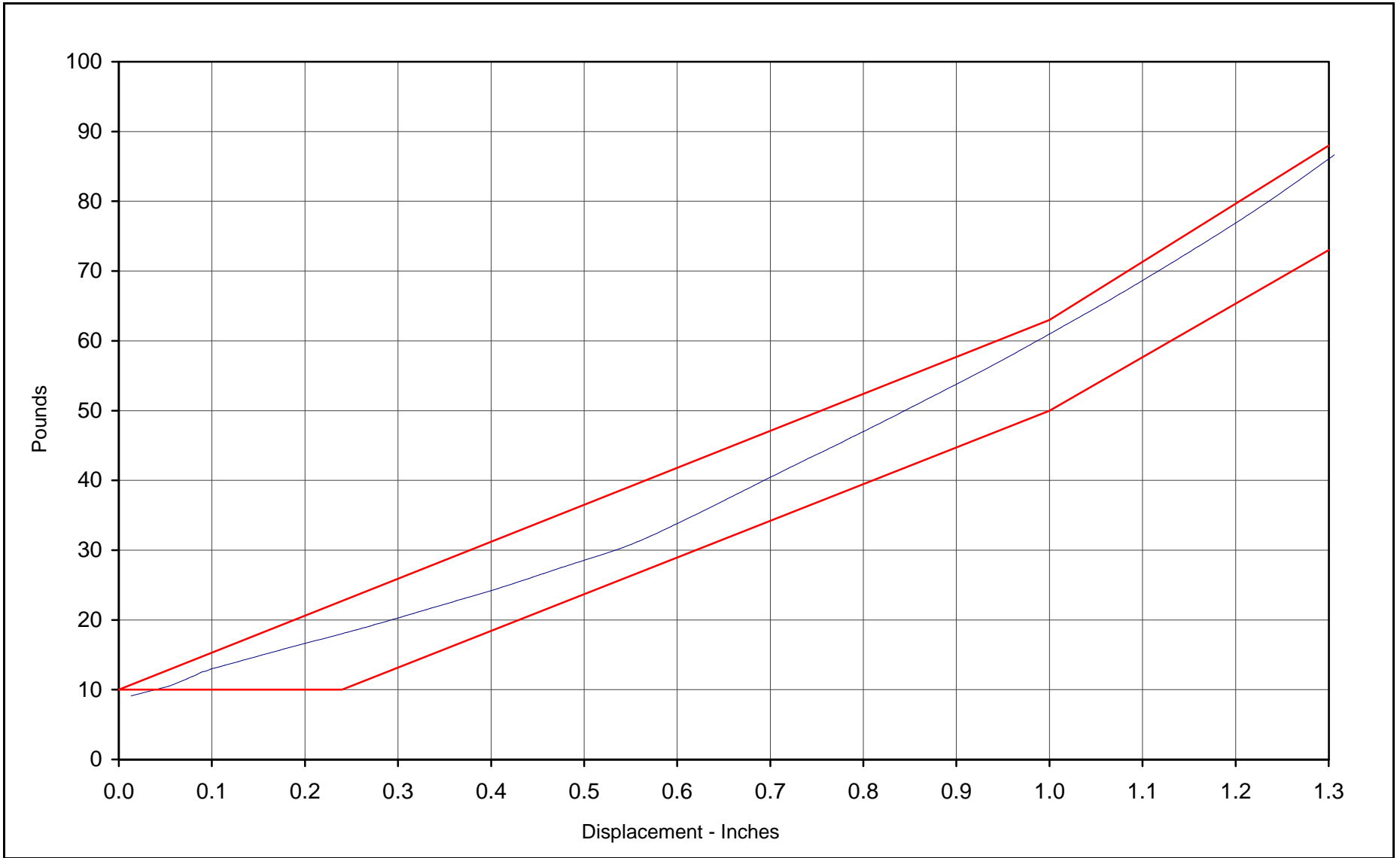
December 27, 2000

Test Date

Approved By

Date

C-45



Curve Description: Abdomen Force vs. Displacement

Test Program: SID Abdominal Compression

Force at 0.5 In.: 28.4 Pounds

Test Information: SID S/N: 275 Test I.D.: AB01E

Force at 0.75 In.: 43.6 Pounds

Force at 1.0 In.: 60.8 Pounds

Force at 1.3 In.: 85.9 Pounds

Date of Test: 12/27/00



KARR21003-08



Performance Verification Data Side Impact Dummy (SID) Head Drop Calibration

ATD Serial No.: 275

Part Serial No.: N/A

Test I.D.: HD12P

Tested Parameter	Units	Specification	Result	Pass/Fail
Laboratory Temperature	°F	66 to 78	69	Pass
Laboratory Relative Humidity	%	10 to 70	30	Pass
Peak Resultant Acceleration	G's	210.0 to 260.0	243.0	Pass
Peak Lateral Acceleration	G's	≤10.0	8.1	Pass
Time Above 100 G's	Msec.	0.9 to 1.5	1.2	Pass
Is Resultant Acceleration Unimodal?	Yes/No	Yes	Yes	Pass
Overall Test Results				Pass

Laboratory Technician

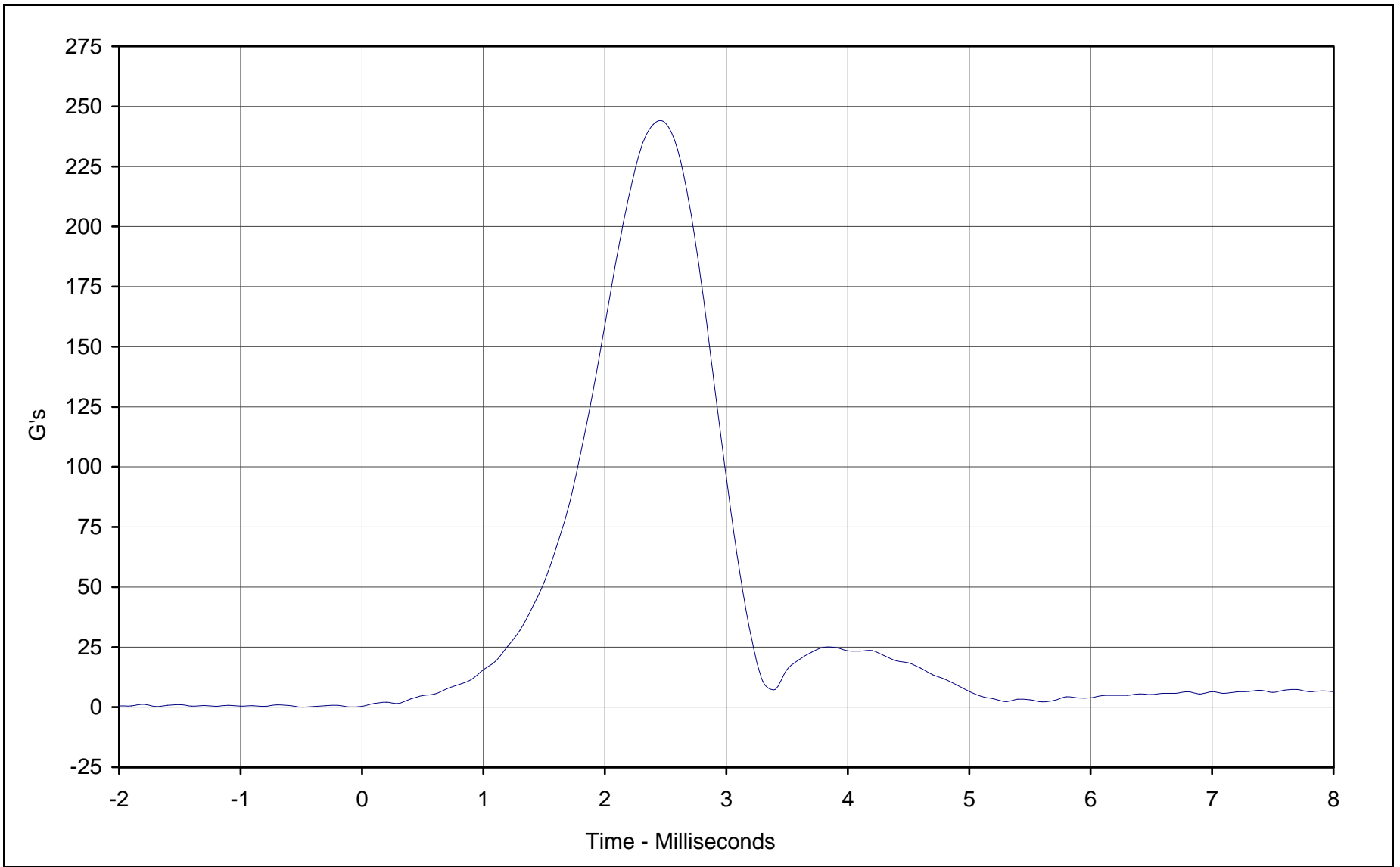
December 28, 2000

Test Date

Approved By

Date

C-47



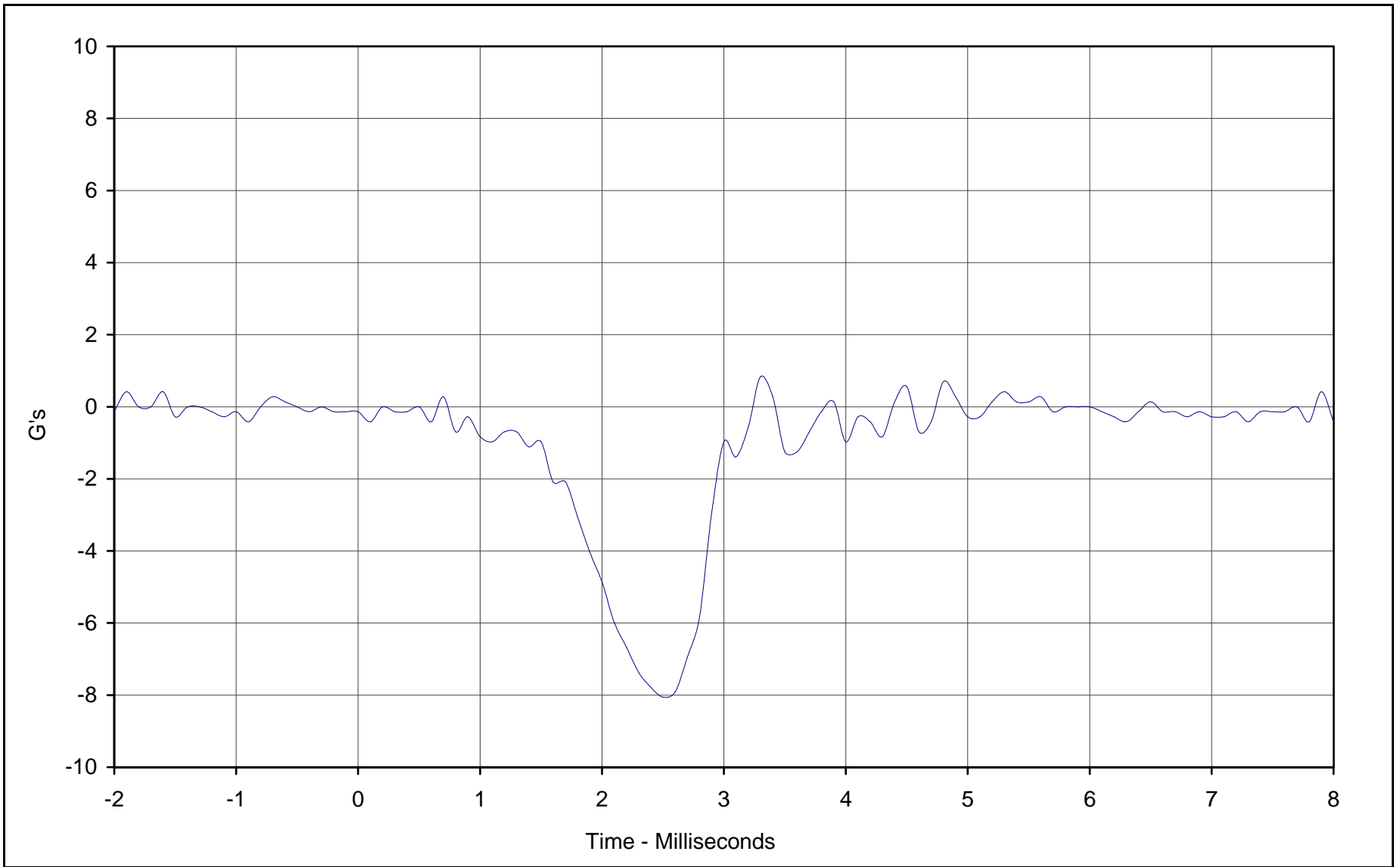
Curve Description: Head Resultant Acceleration
Maximum Value: 243.0 at 2.5 Milliseconds
Minimum Value: 0.3 at 0.0 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/28/00

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 275 Test I.D.: HD12P



KAR21003-08

C-48



Curve Description: Head Y Axis Acceleration
Maximum Value: 0.8 at 3.3 Milliseconds
Minimum Value: -8.1 at 2.5 Milliseconds
SAE Filter Class: 1000
Date of Test: 12/28/00

Test Program: SID Head Drop Calibration
Test Information: SID S/N: 275 Test I.D.: HD12P



KAR21003-08

APPENDIX D
TEST EQUIPMENT LIST AND CALIBRATION INFORMATION

**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Driver S.I.D. Serial Number 274
12/22/00
2001 Dodge Stratus SE 2 Door Coupe**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
1	Head CG	X	KEAC086	Accel.,1/2 bridge	Endevco	7264-2000X	G
2	Head CG	Y	KEAC087	Accel.,1/2 bridge	Endevco	7264-2000Y	G
3	Head CG	Z	KEAC088	Accel.,1/2 bridge	Endevco	7264-2000Z	G
4	Upper Rib Primary	Y	KEAC070	Accel.,1/2 bridge	Endevco	7264-2000X	G
5	Lower Rib, Primary	Y	KEAC071	Accel.,1/2 bridge	Endevco	7264-2000Y	G
6	Lower Spine, Primary	Y	KEAC072	Accel.,1/2 bridge	Endevco	7264-2000Z	G
7	Pelvis, Primary	Y	KEAC090	Accel.,Full bridge	Endevco	7264-2000X	G
8	Upper Rib Redundant	Y	KEAC076	Accel.,1/2 bridge	Endevco	7264-2000X	G
9	Lower Rib, Redundant	Y	KEAC077	Accel.,1/2 bridge	Endevco	7264-2000Y	G
10	Lower Spine, Redundant	Y	KEAC078	Accel.,1/2 bridge	Endevco	7264-2000Z	G
11	Pelvis, Redundant	Y	KEAC089	Accel.,1/2 bridge	Endevco	7264-2000X	G
12	Thorax Contact	N/A	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%
13	Pelvis Contact	N/A	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%

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**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Passenger S.I.D. Serial Number 275
12/22/00
2001 Dodge Stratus SE 2 Door Coupe**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
14	Head CG	X	KEAC069	Accel.,1/2 bridge	Endevco	7264-2000X	G
15	Head CG	Y	KEAC080	Accel.,1/2 bridge	Endevco	7264-2000Y	G
16	Head CG	Z	KEAC082	Accel.,1/2 bridge	Endevco	7264-2000Z	G
17	Upper Rib Primary	Y	KEAC066	Accel.,1/2 bridge	Endevco	7264-2000X	G
18	Lower Rib, Primary	Y	KEAC067	Accel.,1/2 bridge	Endevco	7264-2000Y	G
19	Lower Spine, Primary	Y	KEAC068	Accel.,1/2 bridge	Endevco	7264-2000Z	G
20	Pelvis, Primary	Y	KEAC079	Accel.,1/2 bridge	Endevco	7264-2000X	G
21	Upper Rib Redundant	Y	KEAC073	Accel.,1/2 bridge	Endevco	7264-2000X	G
22	Lower Rib, Redundant	Y	KEAC074	Accel.,1/2 bridge	Endevco	7264-2000Y	G
23	Lower Spine, Redundant	Y	KEAC075	Accel.,1/2 bridge	Endevco	7264-2000Z	G
24	Pelvis, Redundant	Y	KEAC081	Accel.,1/2 bridge	Endevco	7264-2000X	G
25	Thorax Contact	Y	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%
26	Pelvis Contact	Y	T0	Contact Switch	Tapeswitch	8 oz. Yellow	%

**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Vehicle Accelerometers
12/22/00
2001 Dodge Stratus SE 2 Door Coupe**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
27	Right at Sill Front Seat	X	KETX2A	Accel., Triax	I.C. Sensor	3031-200	G
28	Right at Sill Front Seat	Y	KETX2B	Accel., Triax	I.C. Sensor	3031-200	G
29	Right at Sill Front Seat	Z	KETX2C	Accel., Triax	I.C. Sensor	3031-200	G
30	Right at Sill Rear Seat	X	KETX3A	Accel., Triax	I.C. Sensor	3031-500	G
31	Right at Sill Rear Seat	Y	KETX3B	Accel., Triax	I.C. Sensor	3031-500	G
32	Right at Sill Rear Seat	Z	KETX3C	Accel., Triax	I.C. Sensor	3031-500	G
33	Rear Floorpan Above Axle	X	KETX4A	Accel., Triax	I.C. Sensor	3031-500	G
34	Rear Floorpan Above Axle	Y	KETX4B	Accel., Triax	I.C. Sensor	3031-500	G
35	Rear Floorpan Above Axle	Z	KETX4C	Accel., Triax	I.C. Sensor	3031-500	G
36	Left Sill at Rear Door	Y	KEVA012	Accel., Vehicle block	I.C. Sensor	3031-500	G
37	Left Sill at Front Door	Y	KEVA001	Accel., Vehicle block	I.C. Sensor	3031-500	G
38	Left Front Door Centerline	Y	ICST004X	Accel., Triax	I.C. Sensor	3031-500	G
39	Rear Occupant Compartment	Y	KEVA006	Accel., Vehicle block	I.C. Sensor	3031-200	G
40	Left Front Door Mid-Rear	Y	ICST004Y	Accel., Triax	I.C. Sensor	3031-500	G
41	Left Front Door Upper Centerline	Y	ICST004Z	Accel., Triax	I.C. Sensor	3031-500	G
42	Rear Door Mid-Rear	Y	ICST005X	Accel., Triax	I.C. Sensor	3031-500	G
43	Rear Door Upper Centerline	Y	ICST005Y	Accel., Triax	I.C. Sensor	3031-500	G
44	B-Post Lower	Y	KEBX2A	Accel., Biax	I.C. Sensor	3031-500	G
45	B-Post Middle	Y	KEBX2B	Accel., Biax	I.C. Sensor	3031-500	G
46	A-Post Lower	Y	KEBX1A	Accel., Biax	I.C. Sensor	3031-200	G
47	A-Post Middle	Y	KEBX1B	Accel., Biax	I.C. Sensor	3031-500	G
48	Front Seat Track	Y	KEIC008Y	Single	I.C. Sensor	3031-500	G
49	Rear Seat Structure	Y	N/A	N/A	N/A	N/A	N/A
50	Vehicle CG	X	KETX2A	Accel., Triax	I.C. Sensor	3031-200	G
51	Vehicle CG	Y	KETX2B	Accel., Triax	I.C. Sensor	3031-200	G
52	Vehicle CG	Z	KETX2C	Accel., Triax	I.C. Sensor	3031-200	G

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**55/28 km/h Side Impact NCAP
Instrumentation Data Channel Assignments
Moving Deformable Barrier
12/22/00
2001 Dodge Stratus SE 2 Door Coupe**

CH.	LOCATION	AXIS	IDENT. NO.	DESCRIPTION	MFR	MODEL	UNITS
53	MDB CG	X	ICST001X	Accel., Triax	I.C. Sensor	3031-100	G
54	MDB CG	Y	ICST001Y	Accel., Triax	I.C. Sensor	3031-100	G
55	MDB CG	Z	ICST001Z	Accel., Triax	I.C. Sensor	3031-100	G
56	MDB Rear Centerline	X	ICST002X	Accel., Biax	I.C. Sensor	3031-100	G
57	MDB Rear Centerline	Y	ICST002Y	Accel., Biax	I.C. Sensor	3031-100	G
58	Right Bumper Contact	N/A	T0	Contact Switch	Tapeswitch	40 oz. Grey	%